

CE RADIO TEST REPORT

Test Report No.:	R260608001-01
Product Name:	GPON ONT
Brand name:	KAON BROADBAND
Product Model:	PG2142R
Series models:	N/A
Applicant:	KAON BROADBAND Co. Ltd
Address:	7F KAONGROUP Bld., 884-3 Sungnamdaero, Bundang-gu, Sungnam-si, Republic of Korea
Date of Receipt:	Jun. 08, 2026
Date of Test:	Jun. 08, 2026~Aug. 15, 2026
Issued Date:	Sep. 07, 2026
Standards:	ETSI EN 300 328 V2.2.2 (2019-07)
Testing Laboratory:	WU HAN BAO MU TESTING CO., LTD.

Prepared By:	Checked By:	Approved By:	
Anson fan	Krain Wu	Vic Cai	
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History of this test report

Original Report Issue Date: 2026/09/07

- No additional attachment
- Additional attachments were issued following record

Attachment No.	Issue Date	Description

1. General Information

1.1 Basic information of EUT

Product No.	POC260608001-S-R001
Product Name	GPON ONT
Product Model	PG2142R
Series models	N/A
Model difference	N/A
Trade Mark	
Power supply	DC 12V from adapter
Adapter Information	Model: AD-0181200150EU-S INPUT:100V-240V~,50/60Hz,0.6A; OUTPUT:12Vdc, 1.5A
Applicant	KAON BROADBAND Co. Ltd
Applicant Address:	7F KAONGROUP Bld., 884-3 Sunnamdaero, Bundang-gu, Sunnam-si, Republic of Korea
Manufacturer	KAON BROADBAND Co. Ltd
Manufacturer Address:	7F KAONGROUP Bld., 884-3 Sunnamdaero, Bundang-gu, Sunnam-si, Republic of Korea
Factory	Bowei Technology Co., Ltd
Factory Address:	2F, Building 2, No. 306 Gushui Road, Haining Economic Development Zone, Haining, Jiaxing City, Zhejiang, 314499, China

Note: "N/A" indicates "Not Applicable".

1.2 Basic Description of Equipment Under Test

Items	Description
Operate temperature	0℃-40℃

Operation Frequency	2400MHz ~ 2483.5MHz
Maximum EIRP (Maximum EIRP of each mode)	IEEE 802.11b:16.83 dBm
	IEEE 802.11g: 19.42dBm
	IEEE 802.11n(20MHz): 19.25dBm
	IEEE 802.11n(40MHz): 19.92dBm
	IEEE 802.11ax(20MHz): 19.82dBm
	IEEE 802.11ax(40MHz): 19.94dBm
Product Type	IEEE 802.11b: WLAN (2TX) IEEE 802.11g: WLAN (2TX) IEEE 802.11n: WLAN (2TX) IEEE 802.11ax: WLAN (2TX)
Nominal Bandwidth	20MHz / 40MHz
Modulation	IEEE 802.11b: DSSS (DBPSK / DQPSK / CCK) IEEE 802.11g: OFDM (BPSK / QPSK / 16QAM / 64QAM) IEEE 802.11n: OFDM (BPSK / QPSK / 16QAM / 64QAM) IEEE 802.11ax: OFDMA (BPSK / QPSK / 16QAM / 64QAM / 256QAM / 1024QAM)
Data Rate (Mbps)	IEEE 802.11b mode : DSSS (1/2/5.5/11) IEEE 802.11g mode : OFDM (6/9/12/18/24/36/48/54) IEEE 802.11n (20MHz) mode : MCS0~MCS7 IEEE 802.11n (40MHz) mode : MCS0~MCS7 IEEE 802.11ax (20MHz) mode : MCS0~MCS11 IEEE 802.11ax (40MHz) mode : MCS0~MCS11

Thirteen channels are provided for 802.11b, 802.11g, 802.11n(20MHz), 802.11n(40MHz), 802.11ax (20MHz), 802.11ax (40MHz)

Frequency Band	Channel No.	Frequency	Channel No.	Frequency
2400MHz ~ 2483.5MHz	01	2412MHz	08	2447MHz
	02	2417MHz	09	2452MHz
	03	2422MHz	10	2457MHz
	04	2427MHz	11	2462MHz
	05	2432MHz	12	2467MHz
	06	2437MHz	13	2472MHz
	07	2442MHz	/	/

Nine channels are provided for 802.11n(40MHz), 802.11ax (40MHz)

Frequency Band	Channel No.	Frequency	Channel No.	Frequency
2400MHz ~ 2483.5MHz	03	2422MHz	08	2447MHz
	04	2427MHz	09	2452MHz
	05	2432MHz	10	2457MHz
	06	2437MHz	11	2462MHz
	07	2442MHz	/	/

Transmit Operating Mode

Transmit Operating Mode					Transmit Multiple Antennas	
○ Operating mode 1 (single antenna)					○ 1TX	
○ Operating mode 2 (multiple antenna, no beam forming)					● 2TX	
● Operating mode 3 (multiple antenna, with beam forming)					○ 2TX	
Beamforming Gain		N/A				
● 802.11b	Operating mode	○	1TX	●	2TX	
● 802.11g	Operating mode	○	1TX	●	2TX	
● 802.11n(20MHz)	Operating mode	○	1TX	●	2TX	
● 802.11n(40MHz)	Operating mode	○	1TX	●	2TX	
● 802.11ax(20MHz)	Operating mode	○	1TX	●	2TX	
● 802.11ax(40MHz)	Operating mode	○	1TX	●	2TX	

1.3 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	FPC	N/A	3.2
2	N/A	N/A	FPC	N/A	3.2

2. Summary of Test Results

2.1 Summary of Test Items

Test item	Test requirement refer to clause	Test method refer to clause	Results
RF Output Power	4.3.2.2	5.4.2	Pass
Power Spectral Density	4.3.2.3	5.4.3	Pass
Adaptivity	4.3.2.6	5.4.6	Pass
Occupied Channel Bandwidth	4.3.2.7	5.4.7	Pass
Transmitter unwanted emissions in the out-of-band domain	4.3.2.8	5.4.8	Pass
Transmitter unwanted emissions in the spurious domain (30MHz~12.75GHz)	4.3.2.9	5.4.9	Pass
Receiver spurious emissions (30MHz~12.75GHz)	4.3.2.10	5.4.10	Pass
Receiver Blocking	4.3.2.11	5.4.11	Pass

2.2 Application of Harmonized Standard

No.	Reference Standards	Standards Title
1	ETSI EN 300 328 V2.2.2 (2019-07)	Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz band; Harmonised Standard for access to radio spectrum

2.3 Test Instruments

Name of Equipment (software)	Manufacturer	Model Number (software version)	Serial Number	Last Calibration	Due Calibration
Radiated Emission					
EMI Receiver	Rohde&Schwarz	ESU40	1302.6005K40	2025/7/25	2026/7/24
				2026/7/20	2027/7/19
Integral Antenna	Schwarzbeck	VULB 9168	01699	2025/8/1	2026/7/31
				2026/7/20	2027/7/19
Integral Antenna	Schwarzbeck	BBHA 9120D	02958	2025/7/22	2026/7/21
				2026/7/20	2027/7/19
Preamplifier	CHENYI	TAP031030	AP23A8060278	2025/7/25	2026/7/24
				2026/7/20	2027/7/19
Preamplifier	Tonscend	TAP011840	AP24I8060364	2026/7/20	2027/7/19
				2026/7/20	2027/7/19
Filter bank	Tonscend	JS0806-F	24C806F0829	NA	NA
RF Cable	Times	SFT-205	N/A	NA	NA
RF Cable	Times	HF160	N/A	NA	NA
RF Switch unit	Tonscend	JS0806s	24c806s0836	NA	NA
JS32-RE	Tonscend	V5.0.0	N/A	N/A	N/A
Conducted test					
Spectrum analyzer	keysight	N9040B-550	MY60080424	2025/7/29	2026/7/28
				2026/7/20	2027/7/19
Spread spectrum unit	Tonscend	TS-WF7U	24G806WF7U0892	NA	NA
Power Test unit	Tonscend	JS0806-2	24F80620864	2025/8/18	2026/8/17
Temperature Chamber	CHINHUNG	JHHA-615T-165L	JH7412	2026/03/27	2027/03/26
JS1120-3	Tonscend	V3.2.22	N/A	N/A	N/A
Adaptive&DFS&Blocking					
Spectrum analyzer	keysight	N9040B-550	MY60080424	2025/7/29	2026/7/28
				2026/7/20	2027/7/19
Signaling Tester	R&S	CMW500	1201.0002k50-170909-mh	2025/7/29	2026/7/28
				2026/7/20	2027/7/19

Signal generator	keysight	N5182B	MY61252681	2025/7/29	2026/7/28
				2026/7/20	2027/7/19
Signal generator	keysight	N5173B-540	MY61252781	2025/7/29	2026/7/28
				2026/7/20	2027/7/19
JS1120-3	Tonscend	V3.2.22	N/A	N/A	N/A

Note:

1. "N/A" denotes no model name, serial no. or calibration specified.

2.4 Test Mode

Frequency Range : 2400-2483.5 MHz			
Test Items	Mode	Data Rate	Channel
RF Output Power Power Spectral Density	802.11b	1 Mbps	01/07/13
	802.11g	6 Mbps	01/07/13
	802.11n(20MHz)	MCS0	01/07/13
	802.11n(40MHz)	MCS0	03/07/11
	802.11ax(20MHz)	MCS0	01/07/13
	802.11ax(40MHz)	MCS0	03/07/11
Adaptivity	802.11b	1 Mbps	01/13
	802.11g	6 Mbps	01/13
	802.11n(20MHz)	MCS0	01/13
	802.11n(40MHz)	MCS0	03/11
	802.11ax(20MHz)	MCS0	01/13
	802.11ax(40MHz)	MCS0	03/11
Occupied Channel Bandwidth Transmitter unwanted emissions in the OOB domain	802.11b	1 Mbps	01/13
	802.11g	6 Mbps	01/13
	802.11n(20MHz)	MCS0	01/13
	802.11n(40MHz)	MCS0	03/11
	802.11ax(20MHz)	MCS0	01/13
	802.11ax(40MHz)	MCS0	03/11
Transmitter unwanted emissions in the spurious domain (30MHz~12.75GHz)	802.11b	1 Mbps	01/13
	802.11g	6 Mbps	01/13
	802.11n(20MHz)	MCS0	01/13
	802.11n(40MHz)	MCS0	03/11
	802.11ax(20MHz)	MCS0	01/13
	802.11ax(40MHz)	MCS0	03/11
Receiver spurious emissions (30MHz~12.75GHz)	802.11b	1 Mbps	01/13
	802.11g	6 Mbps	01/13
	802.11n(20MHz)	MCS0	01/13
	802.11n(40MHz)	MCS0	01/13
	802.11ax(20MHz)	MCS0	03/11
	802.11ax(40MHz)	MCS0	03/11
Receiver blocking	802.11b	1 Mbps	01/13

2.5 Test Condition

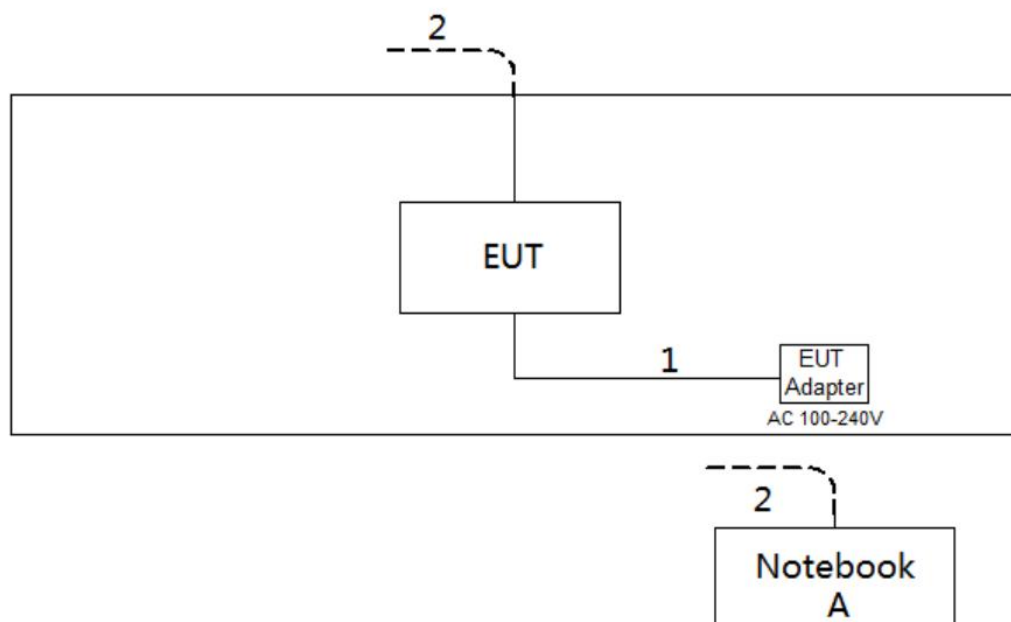
Environment Parameter	100.2kPa	
Relative Humidity	49%	
Value	Temperature(°C)	Voltage AC(V)
NTNV	25	230
LTNV	0	230
HTNV	40	230

Remark:

- 1) The EUT just work in such extreme temperature of 0°C~+40°C.
- 2) NV: Normal Voltage
NT: Normal Temperature
LT: Low Extreme Test Temperature
HT: High Extreme Test Temperature

2.6 Test system information

2.6.1 Configure of system under test



2.6.2 Description of support units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

No.	Equipment	Model	Brand	Series No
A	NoteBook	V14G4AMN	Lenovo	82YT0009CD

For detachable type I/O cable should be specified the length in min Length column

No.	Cable	Shielded Type	Type	Note
1	Cable1	NO	NO	DC Cable
2	Cable2	NO	NO	RJ45

2.7 Measurement Uncertainty

Uncertainty	
Parameter	Uncertainty
Radio frequency	± 0.12 ppm
Occupied Channel Bandwidth	$\pm 0.0196\%$
RF power power	± 1.24 dB
RF power density	± 1.88 dB
Radiated emission(9kHz~30MHz)	± 0.746 dB
Radiated emission (30MHz~1GHz)	± 4.62 dB
Radiated emission (1GHz~12.75GHz)	± 1.328 dB
Radiated emission(9kHz~30MHz)	± 0.746 dB

2.8 Test Location

WU HAN BAO MU TESTING CO., LTD.

2nd floor, Building 1, Building 11, Gemdale Viseen Jiangxia Intelligent Manufacturing Industrial Park, NO.6 ,Hejiahu Street, Daqiao New District, Jiangxia District, Wuhan City, Hubei Province

CNAS Registration Number: CNAS L23481

2.9 Deviation from Standards

None

2.10 Abnormalities from Standard Conditions

None

3. Test Procedure And Results

3.1 RF Output Power (Refer to clause 4.3.2.2)

3.1.1 Limit

RF Output Power Limit
The Mean equivalent isotropic radiated power (e.i.r.p.) of the equipment ≤ 20 dBm

3.1.2 Test Peripherals

Support Equipment				
No.	Equipment	Brand Name	Model Name	Remarks
1	Record PC	Lenovo	M4000q	N/A

3.1.3 Test Procedure

Test Method	
☒ Conducted Measurement	☐ Radiated Measurement
Test Channels	
☒ Lowest, Middle and Highest Channel	☐ Lowest and Highest Channel
Environmental conditions	
☐ Normal	☒ Normal and Extreme
Note: ☒ :Test ☐ :No Test	

Conducted Measurement:

The following table is the specification of the Tonscend JS0806-2 power sensor

Power Meter Parameter	Spec.
Frequency range	50 MHz to 18 GHz
Dynamic power range	-35 dBm to 20 dBm (≥ 500 MHz)
Rise/fall time	≤ 13 ns
Maximum sampling rate	80 Msamples/sec, continuous sampling
Video bandwidth	≥ 30 MHz
Single-shot bandwidth	≥ 30 MHz
Minimum pulse width	50 ns
average power measurement accuracy	$\leq \pm 0.2$ dB or $\pm 4.5\%$

The following table is the specification of the Tonscend JS0806-2 digitizer

Power Meter Parameter	Spec.
Resolution	14 bits
Number of channels	4 differential input channels (software selectable/channel)
Maximum sampling rate	2 MSa/s

Programmable bipolar input range	$\pm 10 \text{ V}, \pm 5 \text{ V}, \pm 2.5 \text{ V}, \pm 1.25 \text{ V}$
Programmable unipolar input range	0 to 10 V, 0 to 5 V, 0 to 2.5 V, 0 to 1.25 V
Input coupling	DC
Input impedance	1 G Ω /100 pF
Operational common mode voltage range	$\pm 8.0 \text{ V}$ maximum
Overvoltage range	Power-on: Continuous $\pm 30 \text{ V}$, Power-off: Continuous $\pm 15 \text{ V}$
Trigger sources	External analog/digital trigger, SSI/star trigger 2
Trigger modes	Pre-trigger, delay-trigger, post-trigger, and middle-trigger
FIFO buffer size	Up to 8 MSa

a) Use a fast sensor suitable for 2.4GHz and capable of minimum 1MS/s.

b) Using the following setting:

Sample speed: $\geq 1\text{MS/s}$.

Detector: RMS.

Measurement duration: a minimum number of bursts (at least 10) is captured

c) Connect a power sensor to each transmit port for a synchronous measurement on all transmit ports. Trigger the power sensors so that they start sampling at the same time. Make sure the time difference between the samples of all sensors is less than 500 ns. For each individual sampling point (time domain), sum the coincident power samples of all ports and store them. Use these summed samples in the following steps.

d) Find the start and stop times of each burst in the stored measurement samples. The start and stop times are defined as the points where the power is at least 30 dB below the highest value of the stored samples in step c. In case of insufficient dynamic range, the value of 30 dB may need to be reduced appropriately.

e) Between the start and stop times of each individual burst, calculate the RMS (mean) power over the burst (P_{burst}) using the formula below:

$$P_{\text{burst}} = \frac{1}{k} \sum_{n=1}^k P_{\text{sample}}(n)$$

With 'k' being the total number of samples and 'n' the actual sample number

The highest of all P_{burst} values is the value A in dBm.

f) The highest of all P_{burst} values (value A in dBm) will be used for maximum e.i.r.p calculations.

Then added the stated antenna assembly gain G in dBi , if more than one antenna assembly is intended for this power setting, the gain of the antenna assembly with the highest gain G shall be used .If applicable the beamforming gain Y in dB.

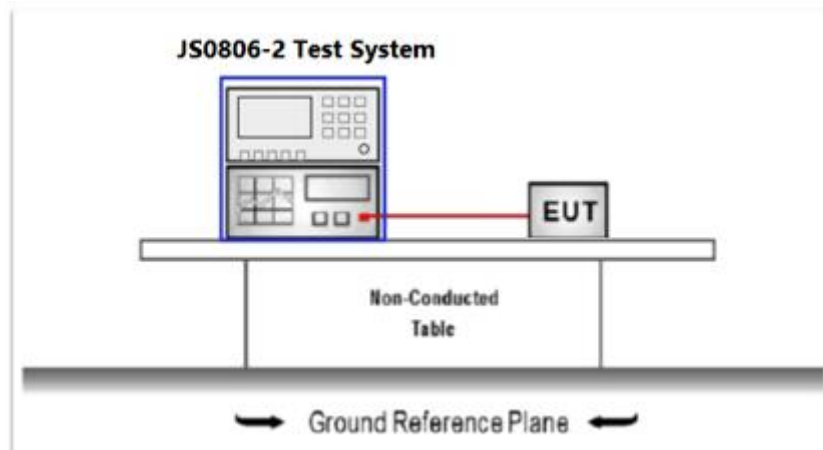
g) The RF Output Power P_H shall be calculated using the following formula:

$$P_H = A + G + Y \text{ (dBm)}$$

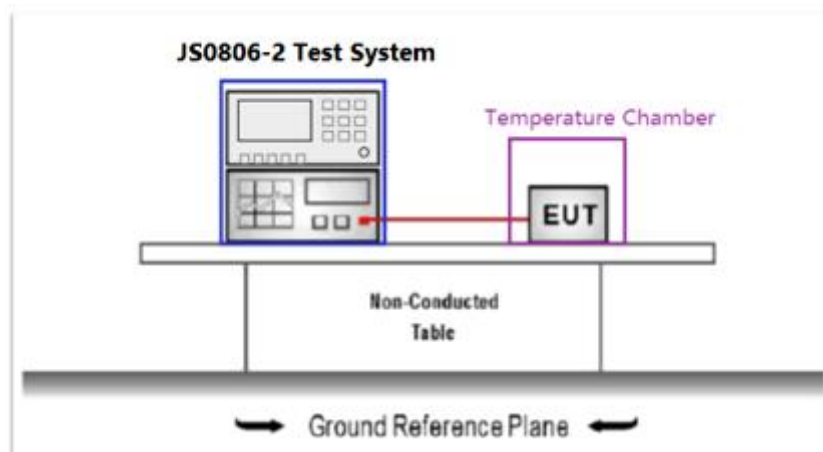
h) This value P_H shall be compared to the applicable limit contained in table 2 of clause 4.3.2.2.3 and shall be recorded in the report.

3.1.4 Test Configuration

Normal Conditions :



Extreme Conditions



3.1.5 Table of Parameters of Test Software Setting

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

For Power setting value

Test Mode	accessMTool_REL_3_3_0_4					
	ALL ANT					
	Channel	Value	Channel	Value	Channel	Value
11B-CDD	2412	40	2442	40	2472	40
11G-CDD	2412	52	2442	52	2472	52
11N20MIMO	2412	52	2442	52	2472	52
11N40MIMO	2422	52	2442	52	2462	52
11AX20MIMO	2412	52	2442	52	2472	52
11AX40MIMO	2422	52	2442	52	2462	52

3.1.6 Test Result of RF Output Power

3.1.6.1 Test Result

Test Condition	Test Mode	Antenna	Freq(MHz)	Burst Power [dBm]	Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	Verdict
NTNV	11B-CDD	Ant1	2412	10.39	3.2	13.59	20	PASS
		Ant2	2412	10.59	3.2	13.79	20	PASS
		total	2412	13.50	3.2	16.70	20	PASS
		Ant1	2442	9.67	3.2	12.87	20	PASS
		Ant2	2442	10.78	3.2	13.98	20	PASS
		total	2442	13.27	3.2	16.47	20	PASS
		Ant1	2472	8.40	3.2	11.60	20	PASS
		Ant2	2472	10.05	3.2	13.25	20	PASS
		total	2472	12.31	3.2	15.51	20	PASS
	11G-CDD	Ant1	2412	12.85	3.2	16.05	20	PASS
		Ant2	2412	13.27	3.2	16.47	20	PASS
		total	2412	16.08	3.2	19.28	20	PASS
		Ant1	2442	12.68	3.2	15.88	20	PASS
		Ant2	2442	12.82	3.2	16.02	20	PASS
		total	2442	15.76	3.2	18.96	20	PASS
		Ant1	2472	12.76	3.2	15.96	20	PASS
		Ant2	2472	13.24	3.2	16.44	20	PASS
		total	2472	16.02	3.2	19.22	20	PASS
	11N20MIMO	Ant1	2412	12.40	3.2	15.60	20	PASS
		Ant2	2412	13.17	3.2	16.37	20	PASS
		total	2412	15.81	3.2	19.01	20	PASS
		Ant1	2442	12.52	3.2	15.72	20	PASS
		Ant2	2442	13.10	3.2	16.30	20	PASS
		total	2442	15.83	3.2	19.03	20	PASS
		Ant1	2472	12.34	3.2	15.54	20	PASS
		Ant2	2472	12.81	3.2	16.01	20	PASS
		total	2472	15.59	3.2	18.79	20	PASS
	11N40MIMO	Ant1	2422	12.82	3.2	16.02	20	PASS
		Ant2	2422	13.91	3.2	17.11	20	PASS
		total	2422	16.41	3.2	19.61	20	PASS
		Ant1	2442	12.95	3.2	16.15	20	PASS
		Ant2	2442	14.08	3.2	17.28	20	PASS
		total	2442	16.56	3.2	19.76	20	PASS
		Ant1	2462	12.88	3.2	16.08	20	PASS
		Ant2	2462	14.08	3.2	17.28	20	PASS
		total	2462	16.53	3.2	19.73	20	PASS

	11AX20MIMO	Ant1	2412	13.01	3.2	16.21	20	PASS
		Ant2	2412	13.38	3.2	16.58	20	PASS
		total	2412	16.21	3.2	19.41	20	PASS
		Ant1	2442	13.05	3.2	16.25	20	PASS
		Ant2	2442	13.69	3.2	16.89	20	PASS
		total	2442	16.39	3.2	19.59	20	PASS
		Ant1	2472	13.33	3.2	16.53	20	PASS
		Ant2	2472	13.61	3.2	16.81	20	PASS
		total	2472	16.48	3.2	19.68	20	PASS
	11AX40MIMO	Ant1	2422	13.11	3.2	16.31	20	PASS
		Ant2	2422	13.89	3.2	17.09	20	PASS
		total	2422	16.53	3.2	19.73	20	PASS
		Ant1	2442	12.94	3.2	16.14	20	PASS
		Ant2	2442	13.71	3.2	16.91	20	PASS
		total	2442	16.35	3.2	19.55	20	PASS
		Ant1	2462	13.14	3.2	16.34	20	PASS
		Ant2	2462	13.85	3.2	17.05	20	PASS
		total	2462	16.52	3.2	19.72	20	PASS
LTNV	11B-CDD	Ant1	2412	10.49	3.2	13.69	20	PASS
		Ant2	2412	10.75	3.2	13.95	20	PASS
		total	2412	13.63	3.2	16.83	20	PASS
		Ant1	2442	9.79	3.2	12.99	20	PASS
		Ant2	2442	10.94	3.2	14.14	20	PASS
		total	2442	13.41	3.2	16.61	20	PASS
		Ant1	2472	8.54	3.2	11.74	20	PASS
		Ant2	2472	10.20	3.2	13.40	20	PASS
		total	2472	12.46	3.2	15.66	20	PASS
	11G-CDD	Ant1	2412	12.98	3.2	16.18	20	PASS
		Ant2	2412	13.42	3.2	16.62	20	PASS
		total	2412	16.22	3.2	19.42	20	PASS
		Ant1	2442	12.82	3.2	16.02	20	PASS
		Ant2	2442	13.24	3.2	16.44	20	PASS
		total	2442	16.05	3.2	19.25	20	PASS
		Ant1	2472	12.87	3.2	16.07	20	PASS
		Ant2	2472	13.49	3.2	16.69	20	PASS
		total	2472	16.20	3.2	19.40	20	PASS
	11N20MIMO	Ant1	2412	12.55	3.2	15.75	20	PASS
		Ant2	2412	13.40	3.2	16.60	20	PASS
		total	2412	16.01	3.2	19.21	20	PASS
		Ant1	2442	12.82	3.2	16.02	20	PASS
		Ant2	2442	13.24	3.2	16.44	20	PASS
		total	2442	16.05	3.2	19.25	20	PASS
		Ant1	2472	12.63	3.2	15.83	20	PASS
		Ant2	2472	13.25	3.2	16.45	20	PASS

	11N40MIMO	total	2472	15.96	3.2	19.16	20	PASS
		Ant1	2422	13.08	3.2	16.28	20	PASS
		Ant2	2422	14.17	3.2	17.37	20	PASS
		total	2422	16.67	3.2	19.87	20	PASS
		Ant1	2442	13.09	3.2	16.29	20	PASS
		Ant2	2442	14.19	3.2	17.39	20	PASS
		total	2442	16.69	3.2	19.89	20	PASS
		Ant1	2462	13.12	3.2	16.32	20	PASS
		Ant2	2462	14.23	3.2	17.43	20	PASS
		total	2462	16.72	3.2	19.92	20	PASS
	11AX20MIMO	Ant1	2412	13.32	3.2	16.52	20	PASS
		Ant2	2412	13.75	3.2	16.95	20	PASS
		total	2412	16.55	3.2	19.75	20	PASS
		Ant1	2442	13.34	3.2	16.54	20	PASS
		Ant2	2442	13.79	3.2	16.99	20	PASS
		total	2442	16.58	3.2	19.78	20	PASS
		Ant1	2472	13.47	3.2	16.67	20	PASS
		Ant2	2472	13.74	3.2	16.94	20	PASS
		total	2472	16.62	3.2	19.82	20	PASS
		Ant1	2422	13.23	3.2	16.43	20	PASS
	11AX40MIMO	Ant2	2422	14.06	3.2	17.26	20	PASS
		total	2422	16.68	3.2	19.88	20	PASS
		Ant1	2442	13.07	3.2	16.27	20	PASS
		Ant2	2442	14.05	3.2	17.25	20	PASS
		total	2442	16.60	3.2	19.80	20	PASS
		Ant1	2462	13.27	3.2	16.47	20	PASS
		Ant2	2462	14.14	3.2	17.34	20	PASS
		total	2462	16.74	3.2	19.94	20	PASS
	HTNV	Ant1	2412	10.18	3.2	13.38	20	PASS
		Ant2	2412	10.44	3.2	13.64	20	PASS
		total	2412	13.32	3.2	16.52	20	PASS
		Ant1	2442	9.54	3.2	12.74	20	PASS
		Ant2	2442	10.60	3.2	13.80	20	PASS
		total	2442	13.11	3.2	16.31	20	PASS
		Ant1	2472	8.30	3.2	11.50	20	PASS
		Ant2	2472	9.84	3.2	13.04	20	PASS
		total	2472	12.15	3.2	15.35	20	PASS
		Ant1	2412	12.73	3.2	15.93	20	PASS
		Ant2	2412	12.86	3.2	16.06	20	PASS
		total	2412	15.81	3.2	19.01	20	PASS
		Ant1	2442	12.51	3.2	15.71	20	PASS
		Ant2	2442	12.70	3.2	15.90	20	PASS
		total	2442	15.62	3.2	18.82	20	PASS
		Ant1	2472	12.62	3.2	15.82	20	PASS

		Ant2	2472	13.12	3.2	16.32	20	PASS
		total	2472	15.89	3.2	19.09	20	PASS
	11N20MIMO	Ant1	2412	12.30	3.2	15.50	20	PASS
		Ant2	2412	13.06	3.2	16.26	20	PASS
		total	2412	15.71	3.2	18.91	20	PASS
		Ant1	2442	12.40	3.2	15.60	20	PASS
		Ant2	2442	12.93	3.2	16.13	20	PASS
		total	2442	15.68	3.2	18.88	20	PASS
		Ant1	2472	12.10	3.2	15.30	20	PASS
		Ant2	2472	12.69	3.2	15.89	20	PASS
		total	2472	15.42	3.2	18.62	20	PASS
		Ant1	2422	12.63	3.2	15.83	20	PASS
	11N40MIMO	Ant2	2422	13.56	3.2	16.76	20	PASS
		total	2422	16.13	3.2	19.33	20	PASS
		Ant1	2442	12.50	3.2	15.70	20	PASS
		Ant2	2442	13.89	3.2	17.09	20	PASS
		total	2442	16.26	3.2	19.46	20	PASS
		Ant1	2462	12.45	3.2	15.65	20	PASS
		Ant2	2462	13.96	3.2	17.16	20	PASS
		total	2462	16.28	3.2	19.48	20	PASS
	11AX20MIMO	Ant1	2412	12.78	3.2	15.98	20	PASS
		Ant2	2412	13.22	3.2	16.42	20	PASS
		total	2412	16.02	3.2	19.22	20	PASS
		Ant1	2442	12.77	3.2	15.97	20	PASS
		Ant2	2442	13.58	3.2	16.78	20	PASS
		total	2442	16.20	3.2	19.40	20	PASS
		Ant1	2472	13.23	3.2	16.43	20	PASS
		Ant2	2472	13.39	3.2	16.59	20	PASS
		total	2472	16.32	3.2	19.52	20	PASS
	11AX40MIMO	Ant1	2422	12.79	3.2	15.99	20	PASS
		Ant2	2422	13.58	3.2	16.78	20	PASS
		total	2422	16.21	3.2	19.41	20	PASS
		Ant1	2442	12.76	3.2	15.96	20	PASS
		Ant2	2442	13.54	3.2	16.74	20	PASS
		total	2442	16.18	3.2	19.38	20	PASS
		Ant1	2462	13.02	3.2	16.22	20	PASS
		Ant2	2462	13.62	3.2	16.82	20	PASS
		total	2462	16.34	3.2	19.54	20	PASS

Note: The Duty Cycle Factor and antenna gain are compensated in the data.

3.2 Power Spectral Density (Refer to clause 4.3.2.3)

3.2.1 Limit

Power Spectral Density Limit
Mean equivalent isotropic radiated power (e.i.r.p.) density ≤ 10 dBm/MHz.

3.2.2 Test Peripherals

Support Equipment				
No.	Equipment	Brand Name	Model Name	Remarks
1	Record PC	Lenovo	M4000q	N/A

3.2.3 Test Procedure

Test Method	
●Conducted Measurement	○Radiated Measurement
Test Channels	
●Lowest, Middle and Highest Channel	○ Lowest and Highest Channel
Environmental conditions	
●Normal	○Normal and Extreme
Note:●:Test ○:No Test	

i) Connect the EUT to the spectrum analyser and using following settings:

Test Frequency	2400~2483.5MHz
RBW	10kHz
VBW	30kHz
Sweep Points	>8350
Detector Mode	RMS
Trace Mode	Max Hold
Sweep Time	2 × COT × number of sweep points

j) Wait for the trace to stabilize. Save the data (trace data) set to a file.

k) Repeat the measurement for each of the transmit ports. For each sampling point (frequency domain), add up the coincident power values (in mW) for the different transmit chains and use this as the new data set.

l) Add up the values for power for all the samples in the file using the formula below.

$$P_{\text{Sum}} = \sum_{n=1}^k P_{\text{sample}}(n)$$

With k being the total number of samples and n the actual sample number

m) Normalize the individual values for power (in dBm) so that the sum is equal to the RF Output Power (e.i.r.p.) measured in clause 5.4.2 and save the corrected data. The following formulas can be used:

$$C_{\text{Corr}} = P_{\text{Sum}} - P_{\text{Heirp}}$$

$$P_{\text{Samplecorr}}(n) = P_{\text{Sample}}(n) - C_{\text{Corr}}$$

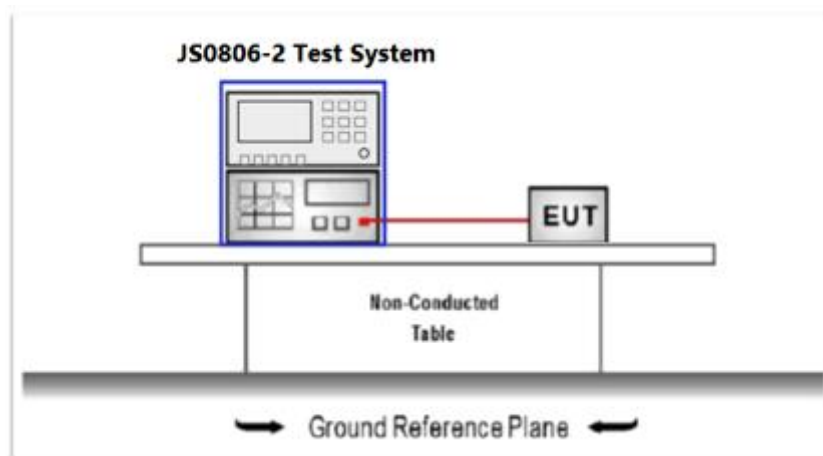
with 'n' being the actual sample number

n) Starting from the first sample $P_{\text{Samplecorr}}(n)$ (lowest frequency), add up the power (in mW) of the following samples representing a 1 MHz segment and record the results for power and position (i.e. sample #1 to sample #100). This is the Power Spectral Density (e.i.r.p.) for the first 1 MHz segment which shall be recorded.

o) Shift the start point of the samples added up in step f by one sample and repeat the procedure in step f (i.e. sample #2 to sample #101).

p) Repeat step g until the end of the data set and record the Power Spectral Density values for each of the 1 MHz segments. From all the recorded results, the highest value is the maximum Power Spectral Density (PSD) for the EUT. This value, which shall comply with the limit given in clause 4.3.2.3.3, shall be recorded in the test report.

3.2.4 Test Configuration



3.2.5 Test Result of Power Spectral Density

3.2.5.1 Test Result

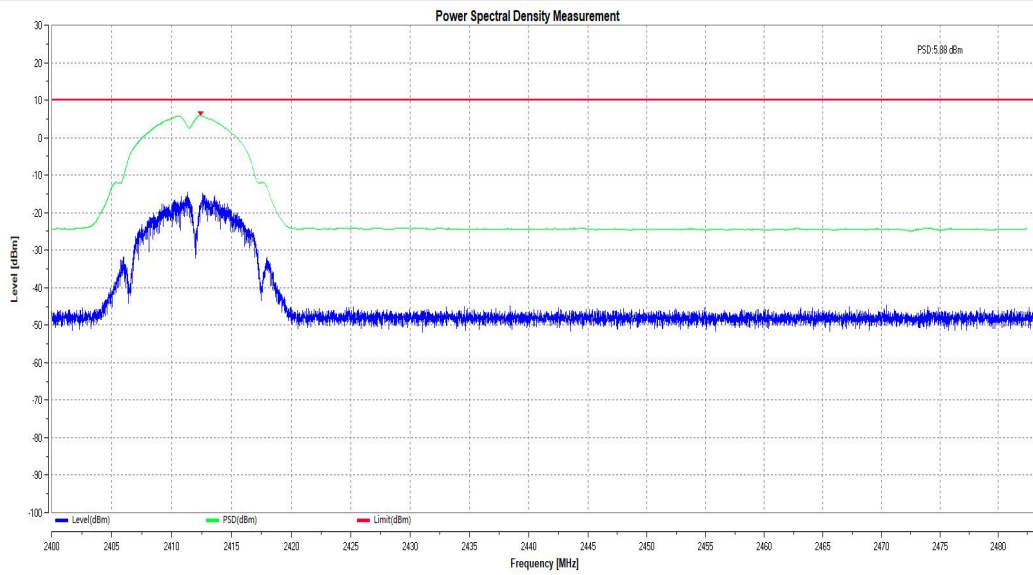
TestMode	Antenna	Freq(MHz)	EIRP PSD[dBm/MHz]	Limit[dBm/MHz]	Verdict
11B-CDD	Ant1	2412	5.88	10	PASS
	Ant2	2412	6.36	10	PASS
	total	2412	9.13	10	PASS
	Ant1	2442	6.13	10	PASS
	Ant2	2442	6.46	10	PASS
	total	2442	9.23	10	PASS
	Ant1	2472	6.12	10	PASS
	Ant2	2472	6.66	10	PASS
	total	2472	9.34	10	PASS
11G-CDD	Ant1	2412	4.90	10	PASS
	Ant2	2412	4.82	10	PASS
	total	2412	7.74	10	PASS
	Ant1	2442	4.84	10	PASS
	Ant2	2442	5.03	10	PASS
	total	2442	7.72	10	PASS
	Ant1	2472	4.89	10	PASS
	Ant2	2472	5.07	10	PASS
	total	2472	7.86	10	PASS
11N20MIMO	Ant1	2412	4.57	10	PASS
	Ant2	2412	4.49	10	PASS
	total	2412	7.47	10	PASS
	Ant1	2442	4.50	10	PASS
	Ant2	2442	4.49	10	PASS
	total	2442	7.35	10	PASS
	Ant1	2472	4.73	10	PASS
	Ant2	2472	4.52	10	PASS
	total	2472	7.51	10	PASS
11N40MIMO	Ant1	2422	1.65	10	PASS
	Ant2	2422	1.80	10	PASS
	total	2422	4.57	10	PASS
	Ant1	2442	1.59	10	PASS
	Ant2	2442	1.91	10	PASS
	total	2442	4.65	10	PASS
	Ant1	2462	1.66	10	PASS
	Ant2	2462	1.95	10	PASS
	total	2462	4.65	10	PASS
11AX20MIMO	Ant1	2412	4.61	10	PASS
	Ant2	2412	4.73	10	PASS

	total	2412	7.58	10	PASS
	Ant1	2442	4.63	10	PASS
	Ant2	2442	4.62	10	PASS
	total	2442	7.45	10	PASS
	Ant1	2472	4.81	10	PASS
	Ant2	2472	4.68	10	PASS
	total	2472	7.67	10	PASS
11AX40MIMO	Ant1	2422	1.89	10	PASS
	Ant2	2422	1.96	10	PASS
	total	2422	4.77	10	PASS
	Ant1	2442	1.90	10	PASS
	Ant2	2442	2.08	10	PASS
	total	2442	4.76	10	PASS
	Ant1	2462	1.92	10	PASS
	Ant2	2462	2.01	10	PASS
	total	2462	4.77	10	PASS

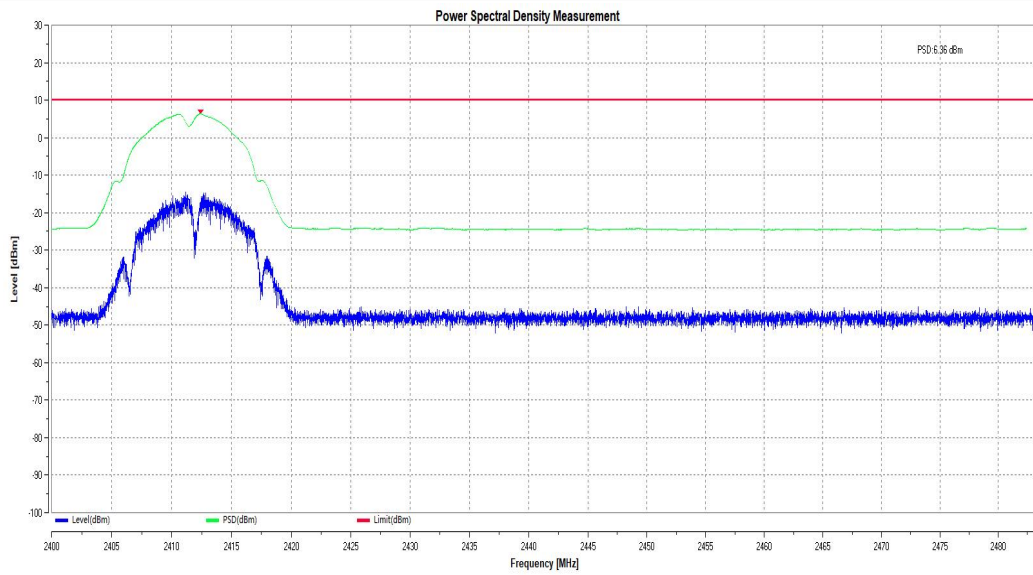
(Note: The Duty Cycle Factor and antenna gain are compensated in the data.)

3.2.5.2 Test Graphs

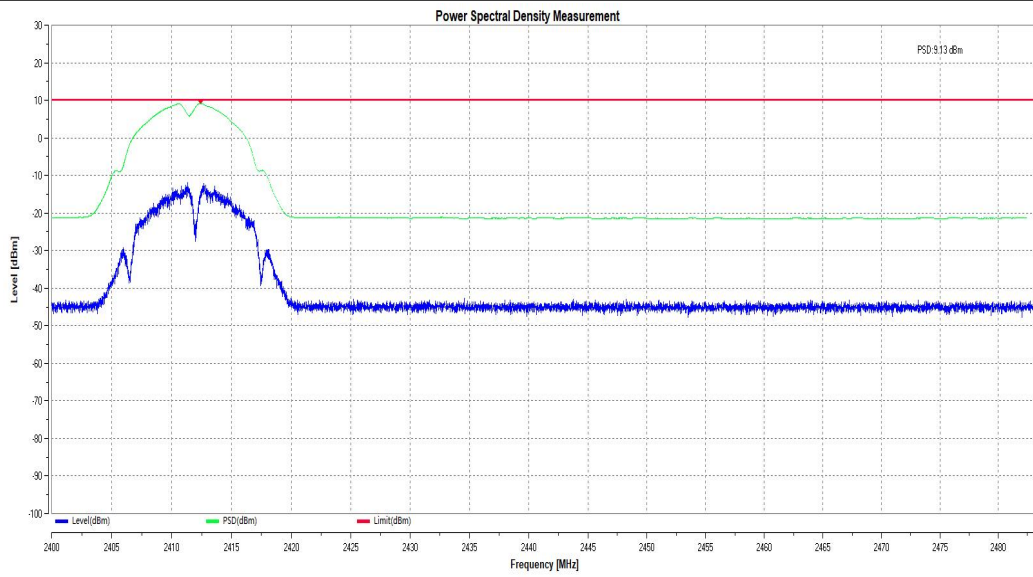
11B-CDD_Ant1_2412



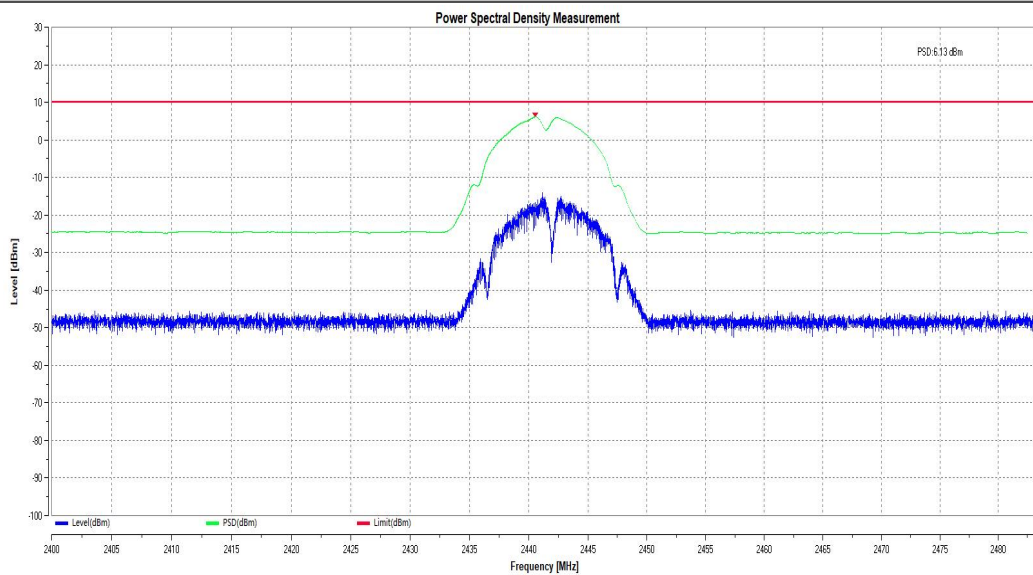
11B-CDD_Ant2_2412



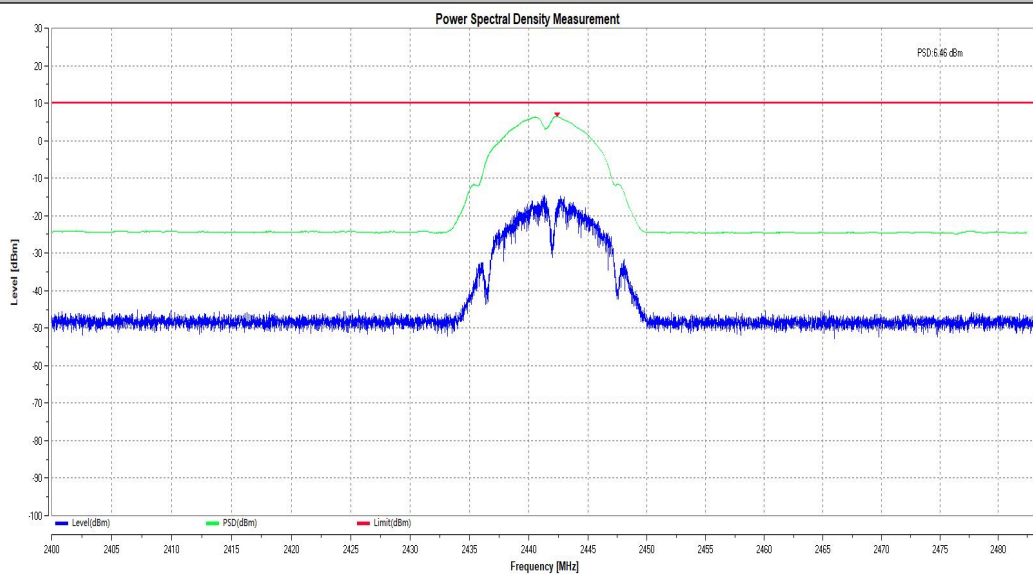
11B-CDD_total_2412



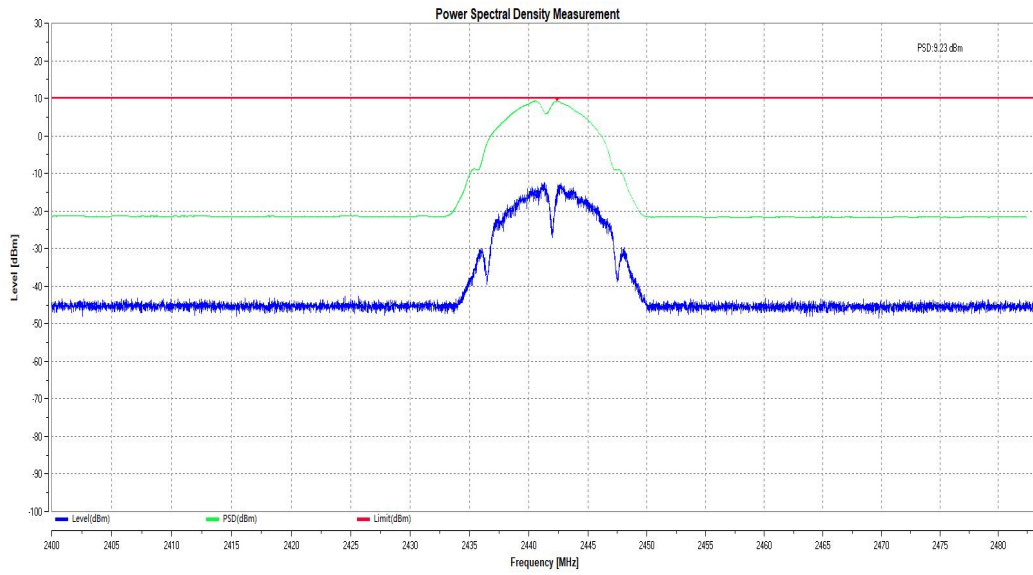
11B-CDD_Ant1_2442



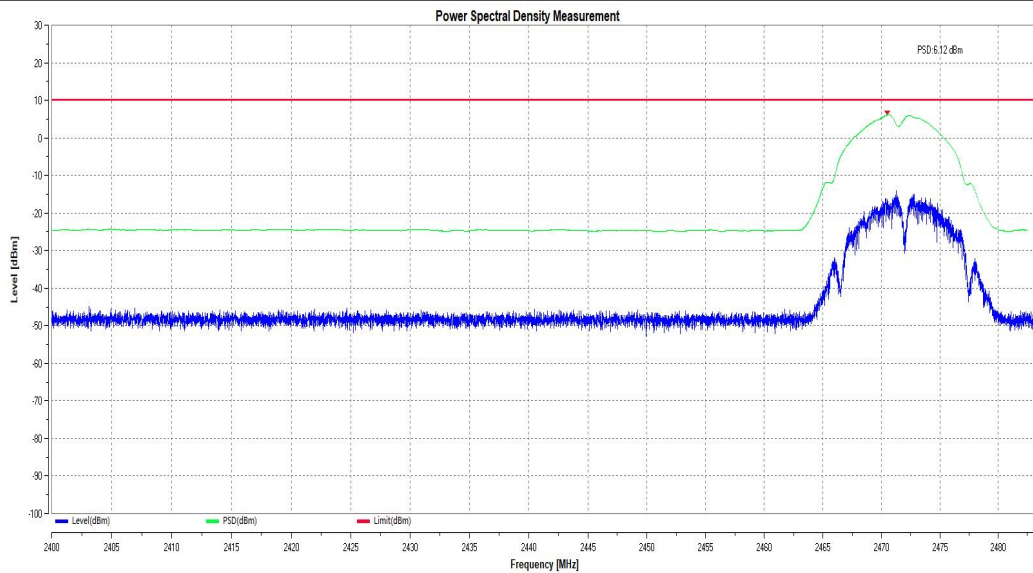
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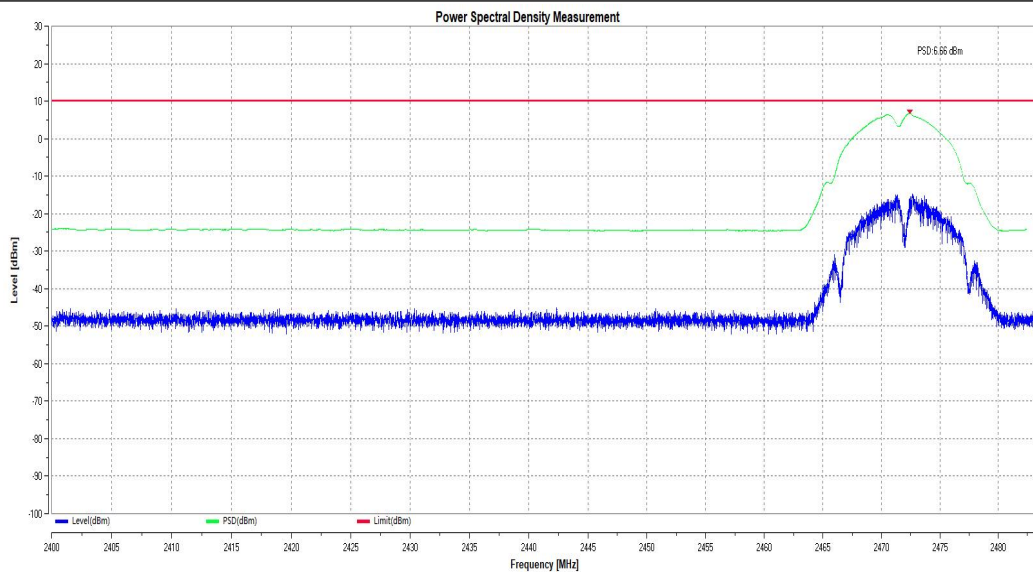
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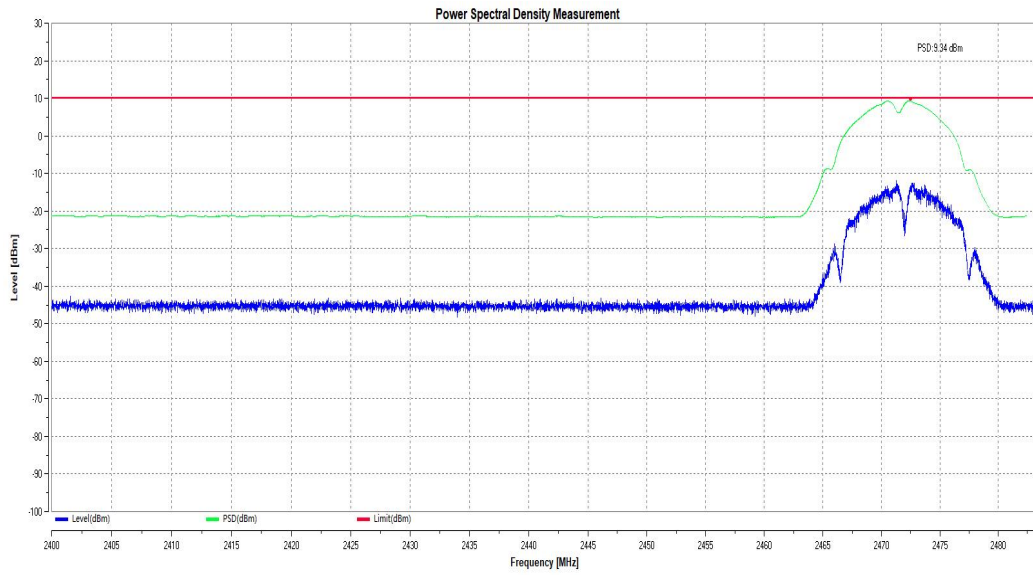
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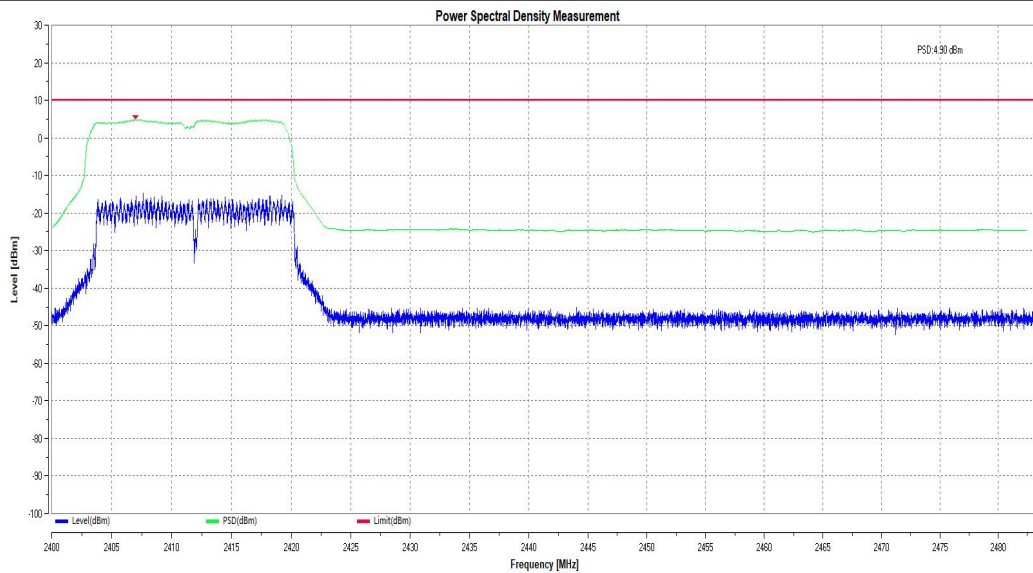
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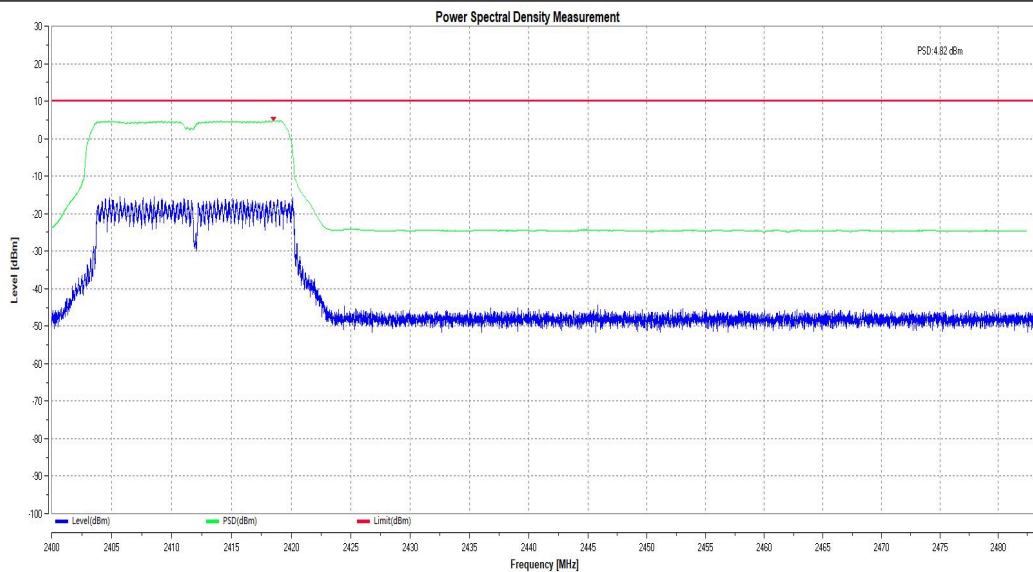
11B-CDD_total_2472



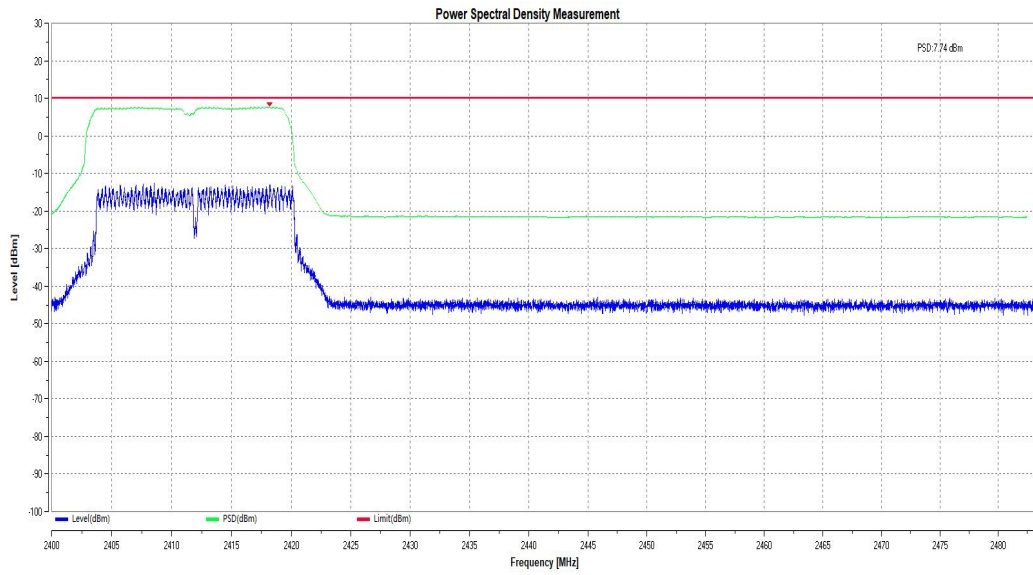
11G-CDD_Ant1_2412



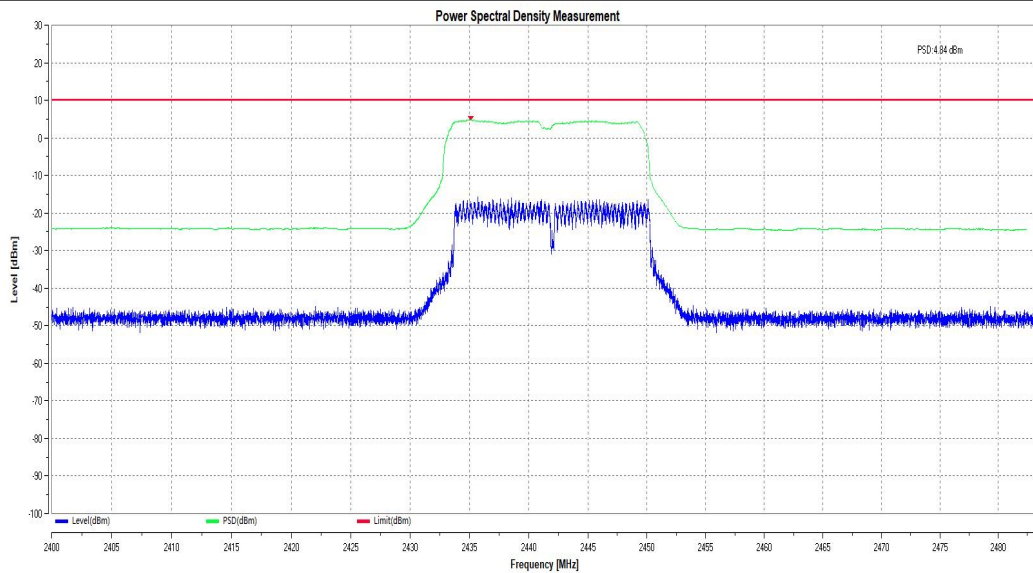
11G-CDD_Ant2_2412



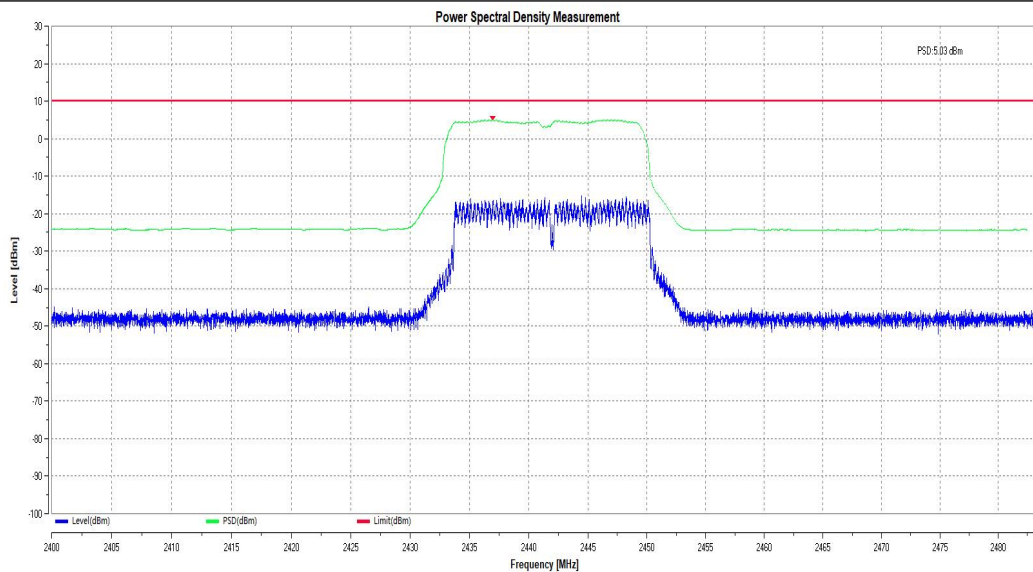
11G-CDD_total_2412



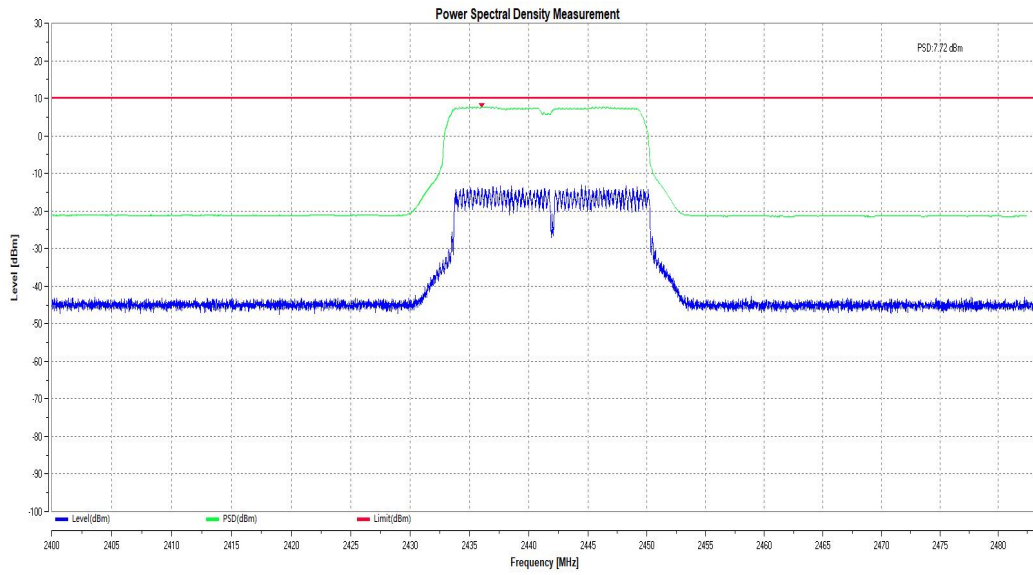
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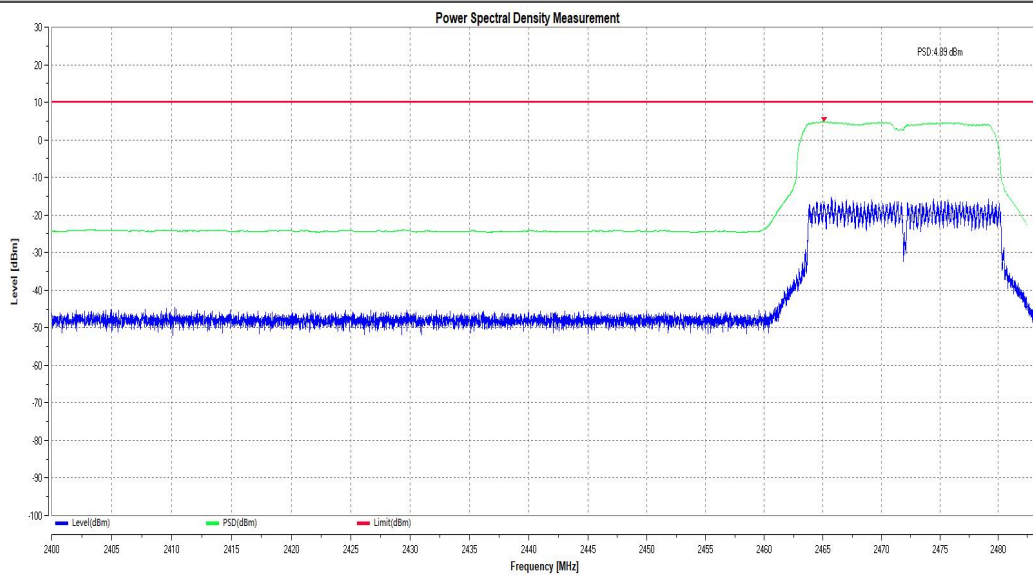
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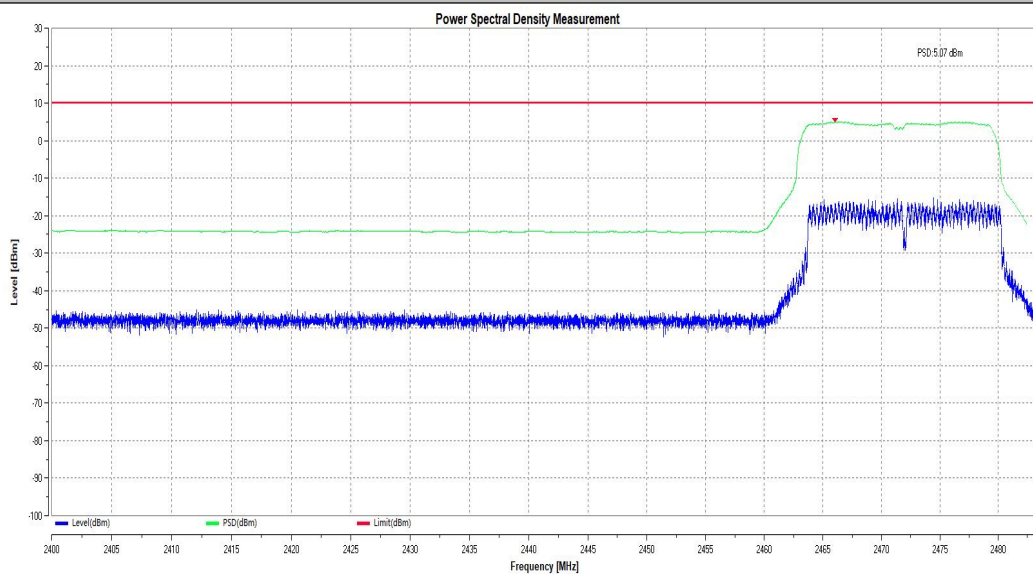
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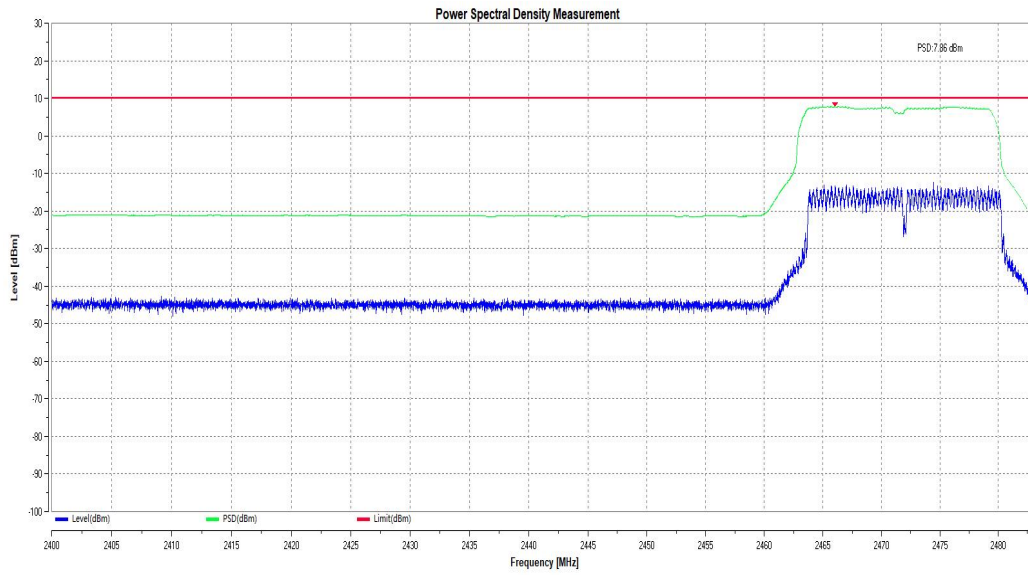
11G-CDD_Ant1_2472



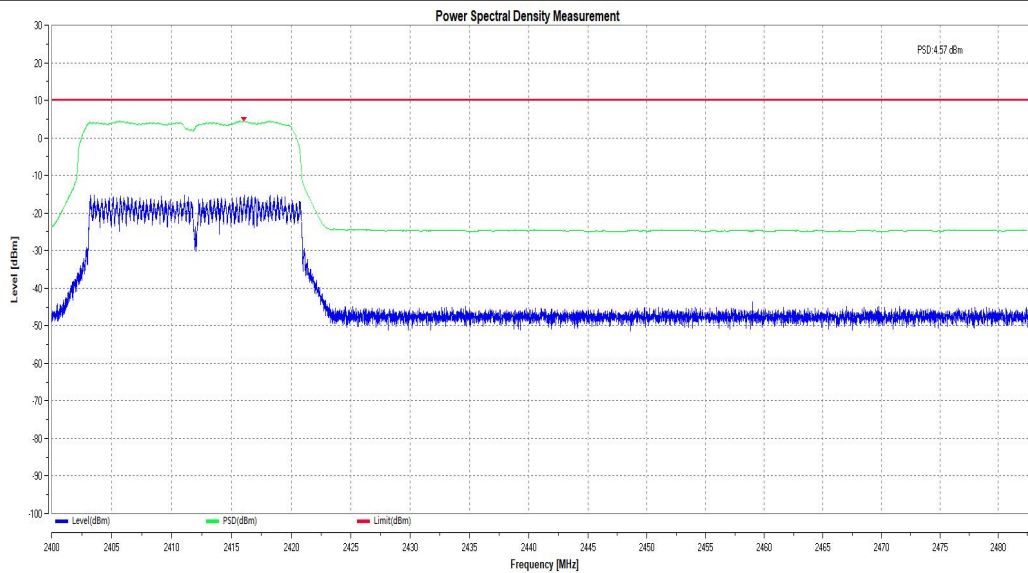
11G-CDD_Ant2_2472



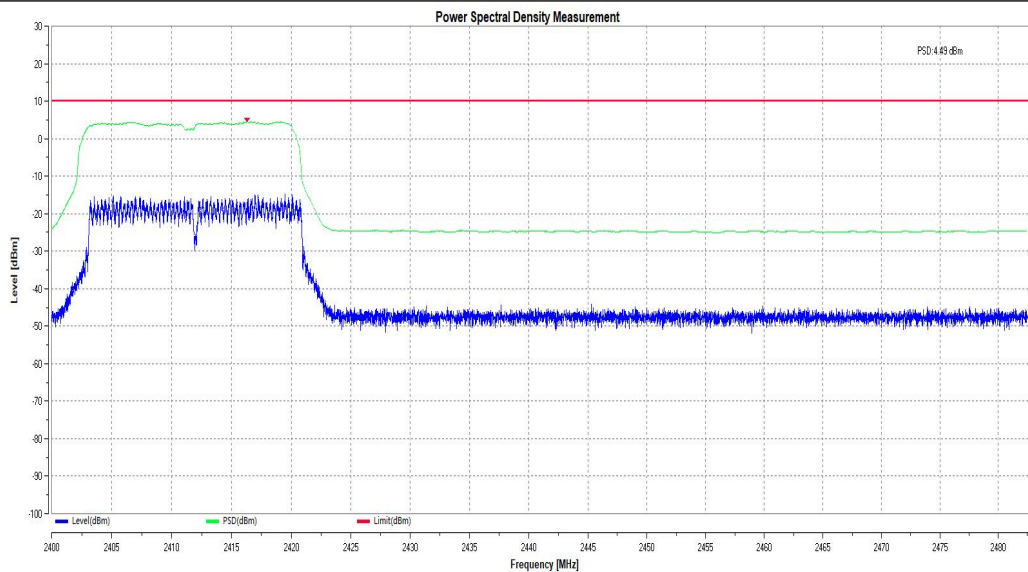
11G-CDD_total_2472



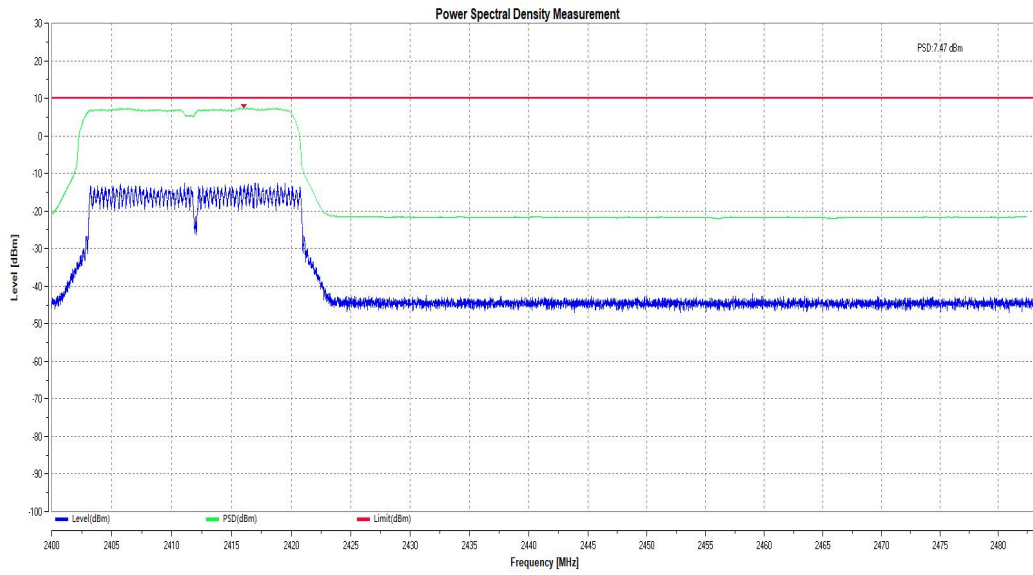
11N20MIMO_Ant1_2412



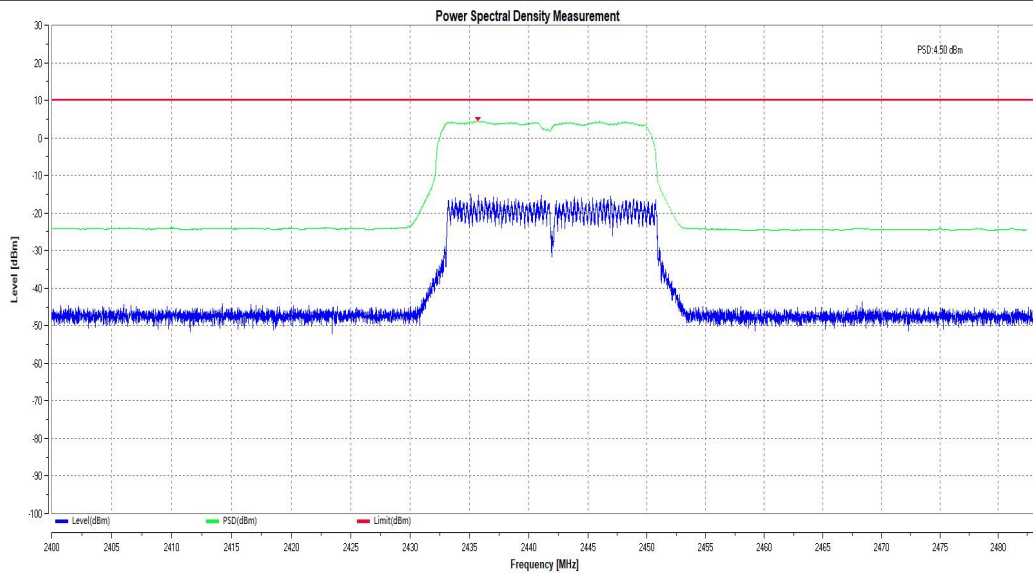
11N20MIMO_Ant2_2412



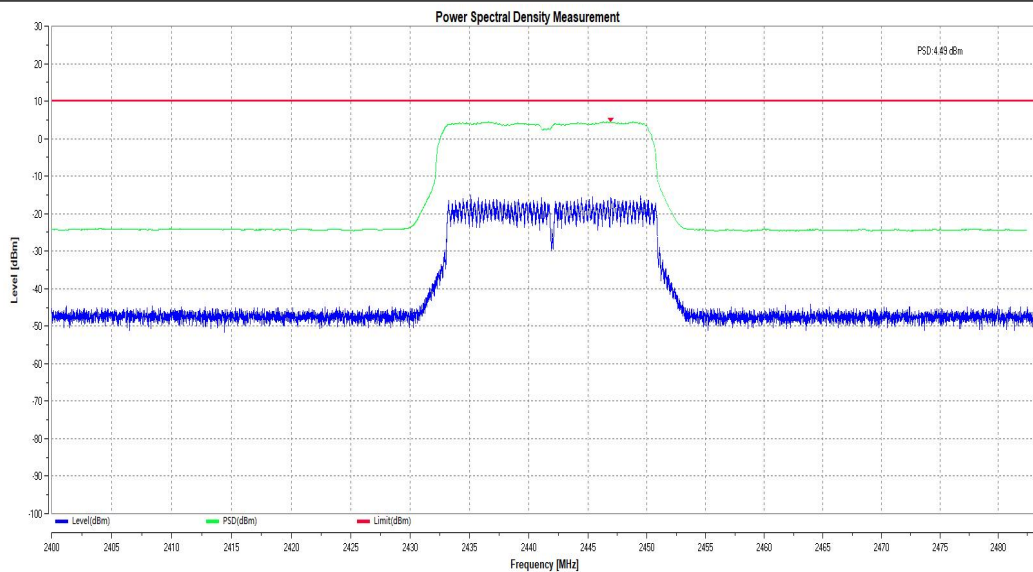
11N20MIMO_total_2412



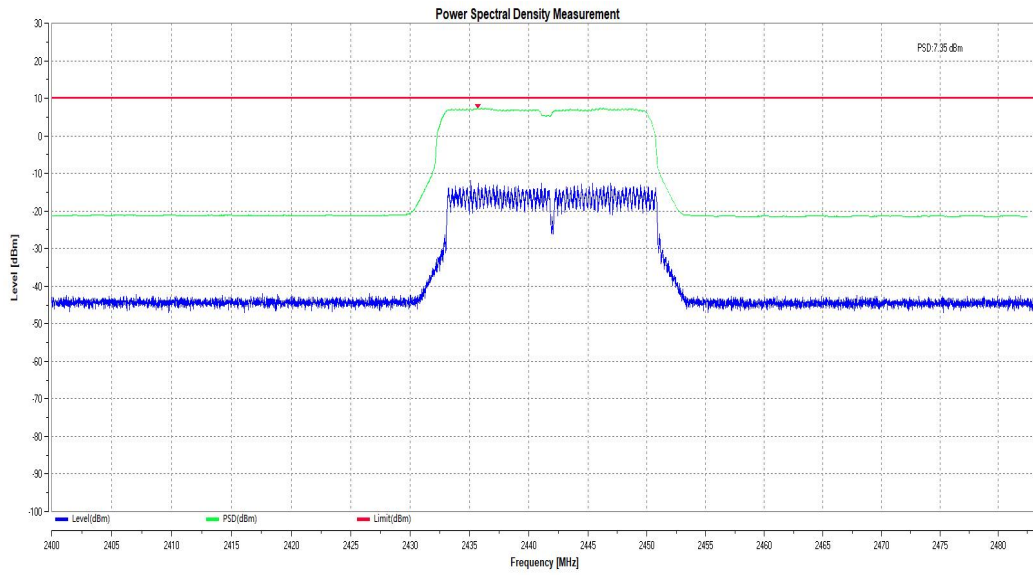
11N20MIMO_Ant1_2442



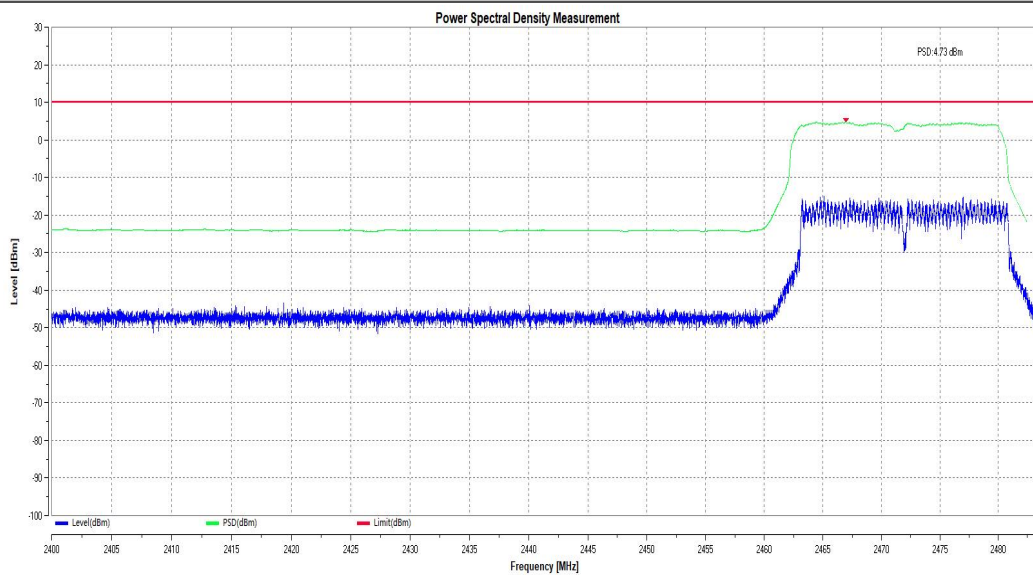
11N20MIMO_Ant2_2442



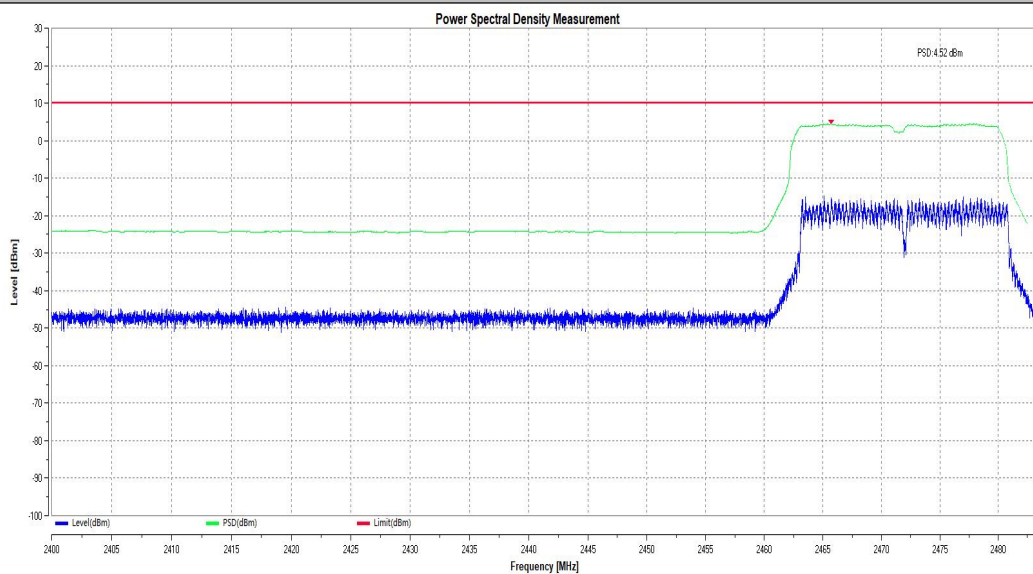
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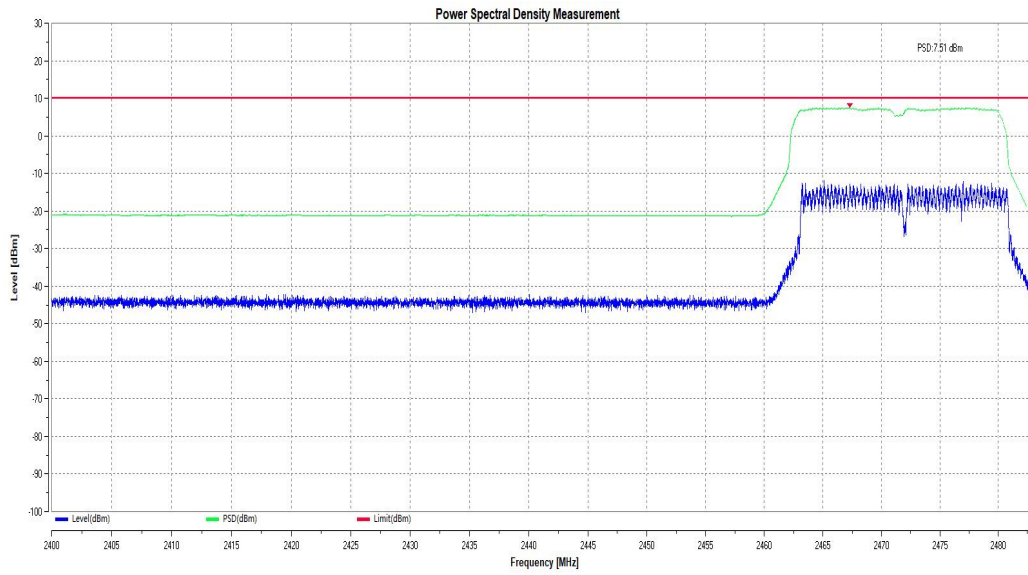
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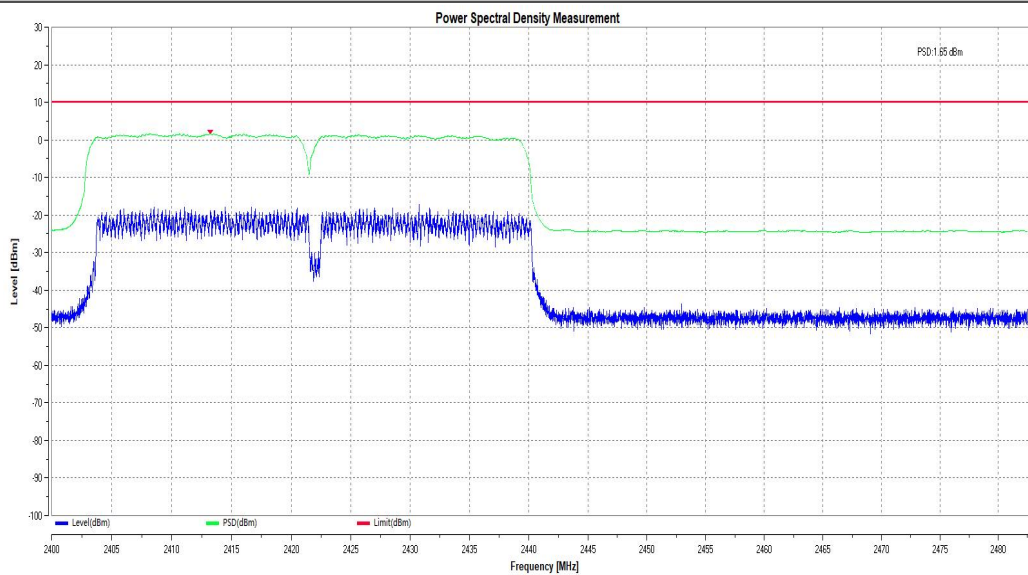
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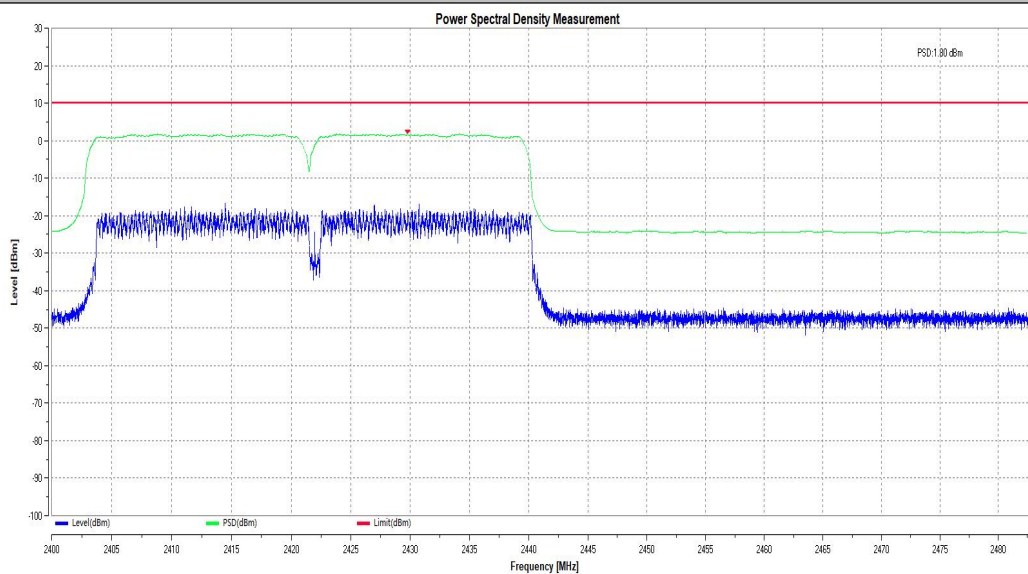
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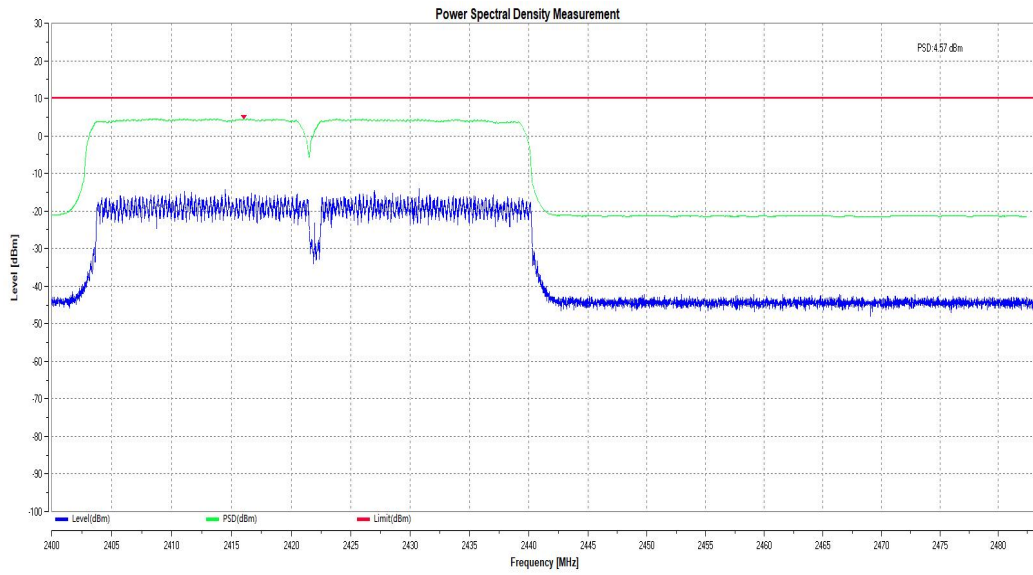
11N40MIMO_Ant1_2422



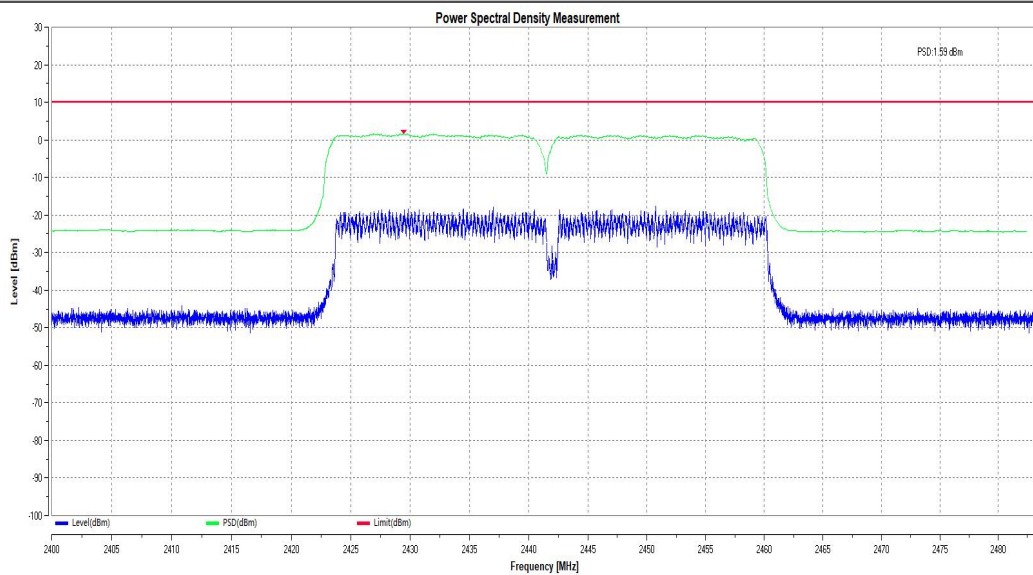
11N40MIMO_Ant2_2422



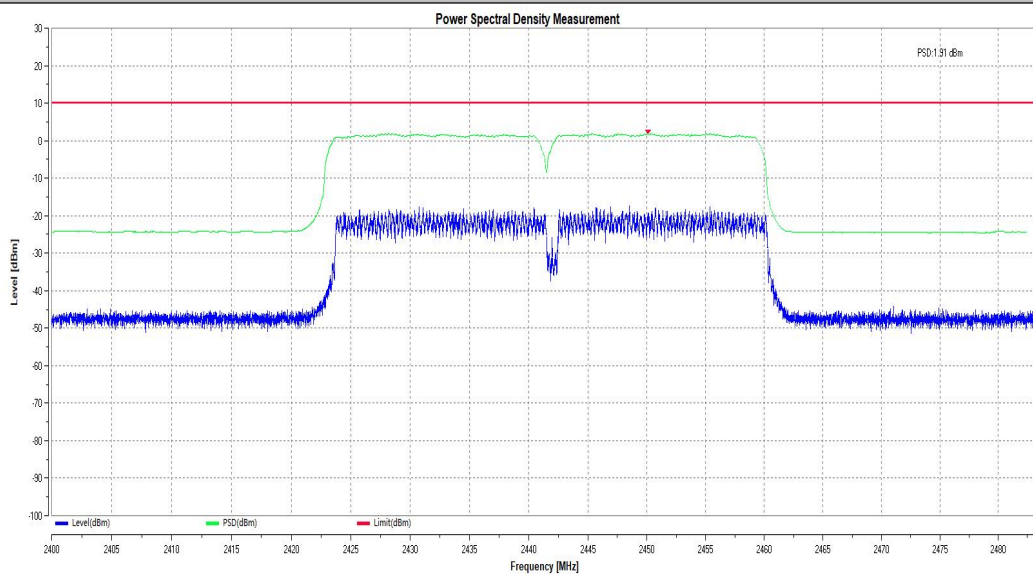
11N40MIMO_total_2422



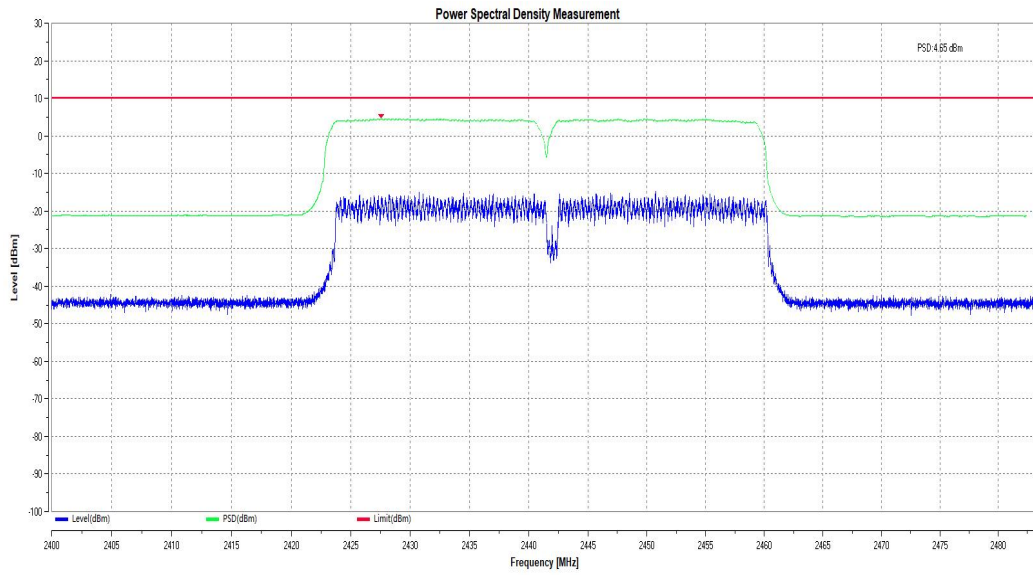
11N40MIMO_Ant1_2442



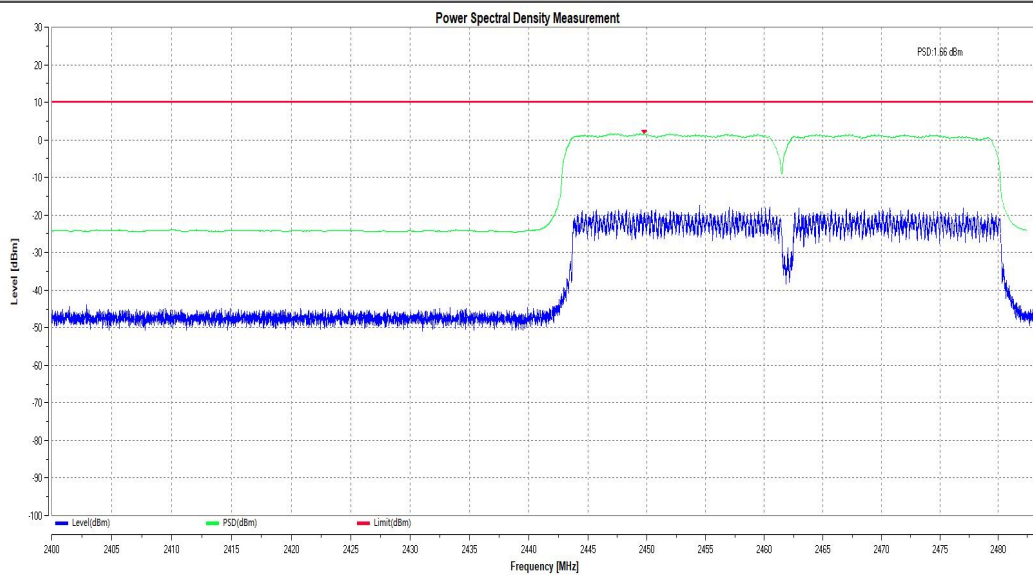
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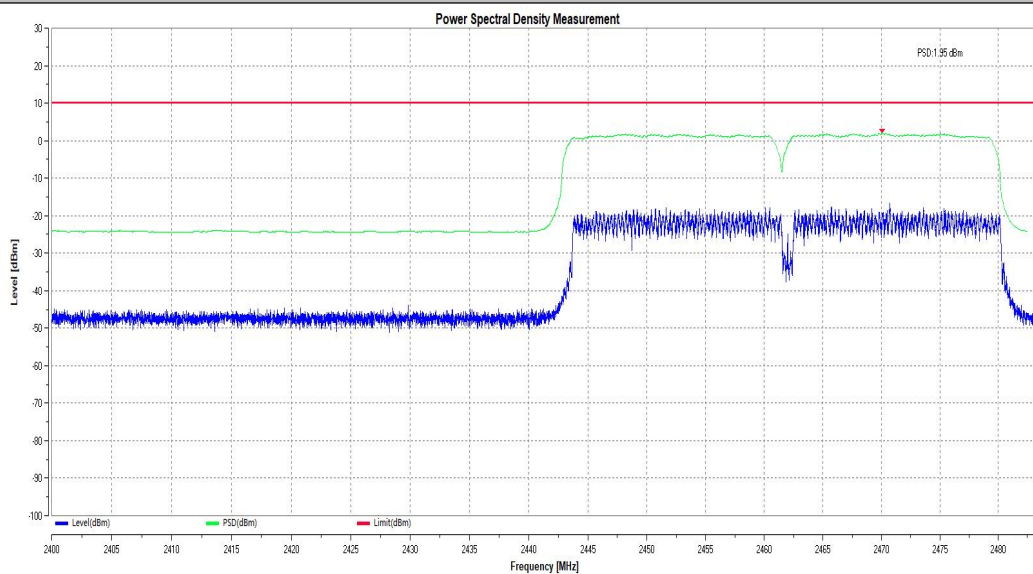
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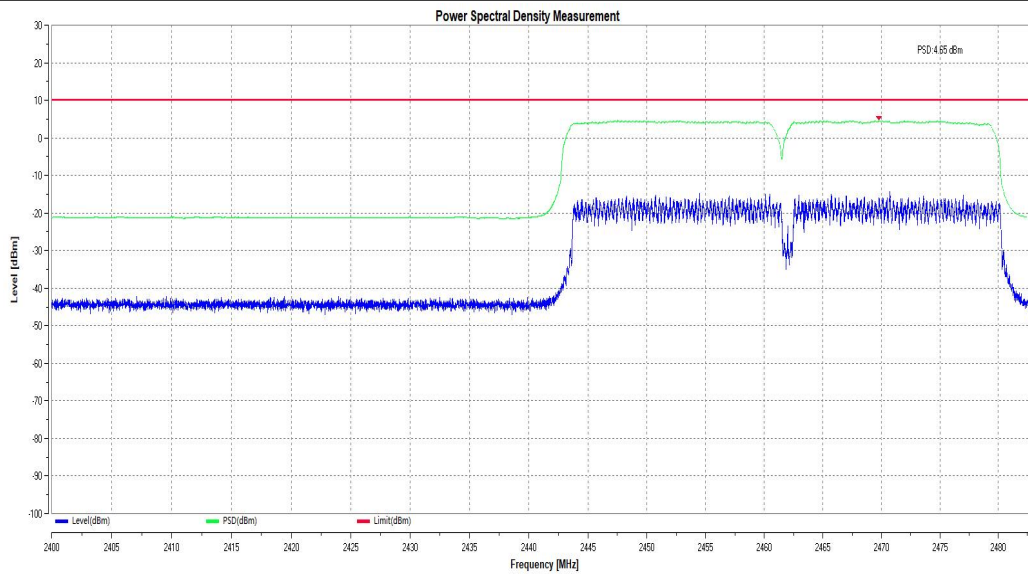
11N40MIMO_Ant1_2462



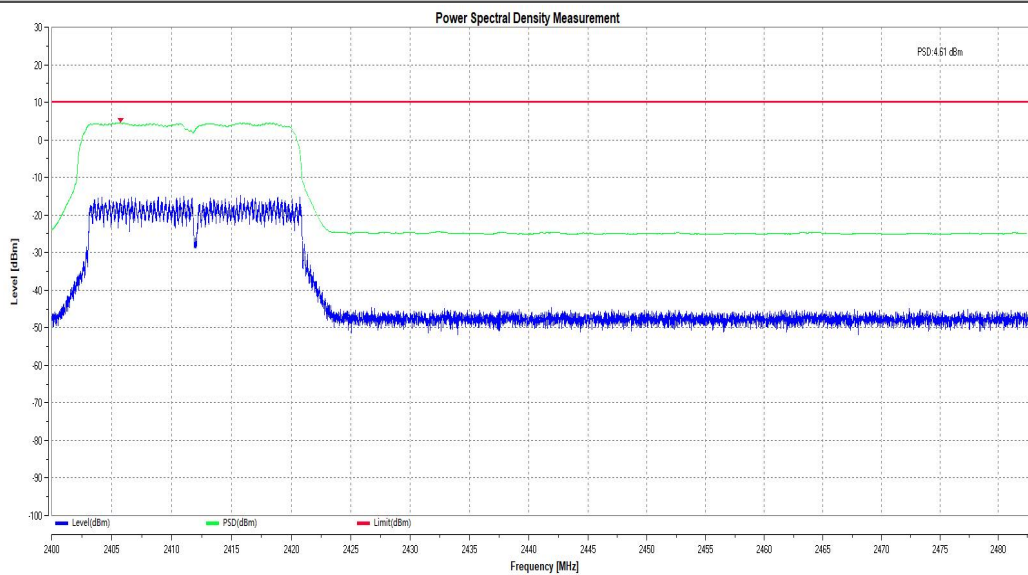
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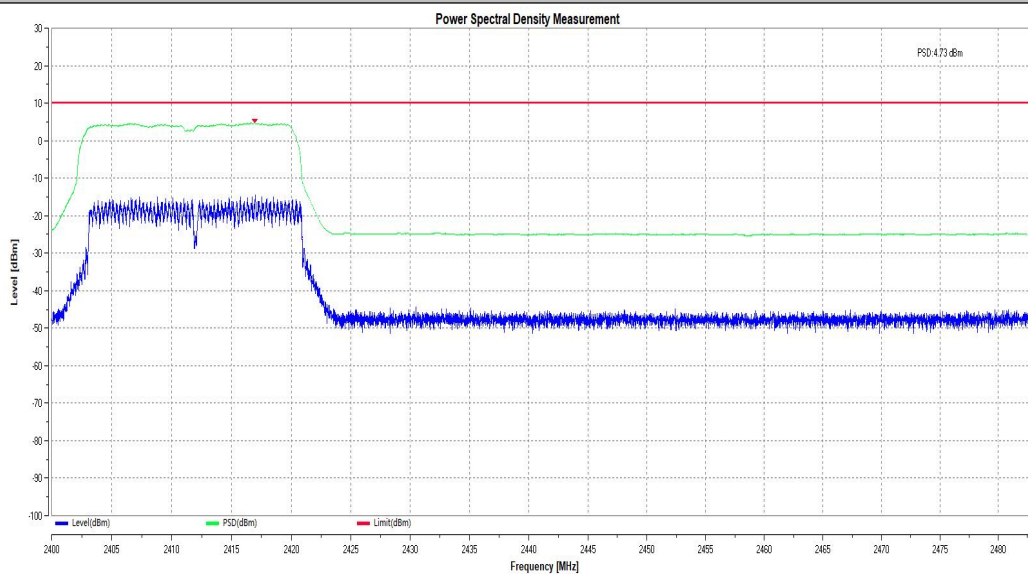
11N40MIMO_total_2462



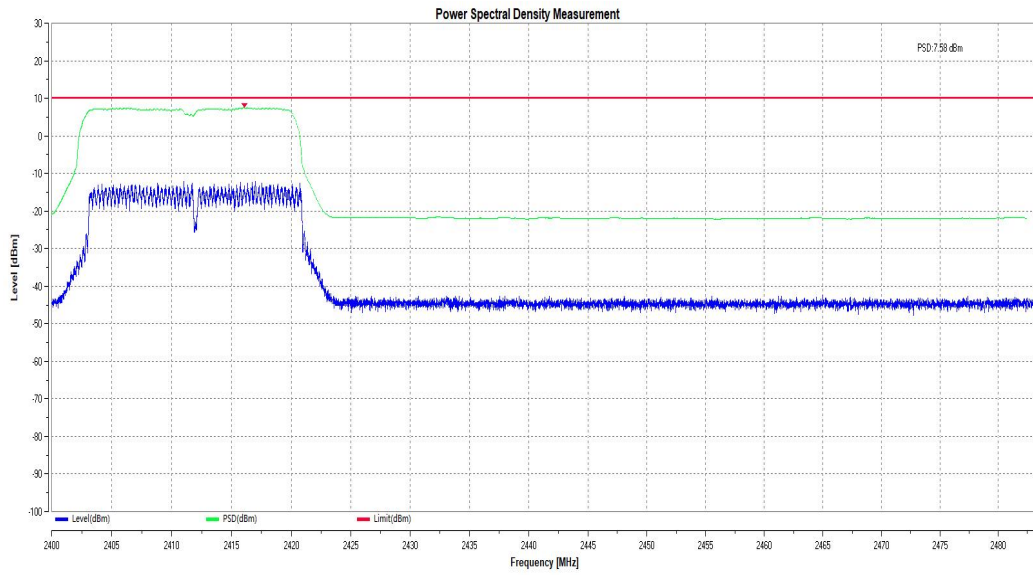
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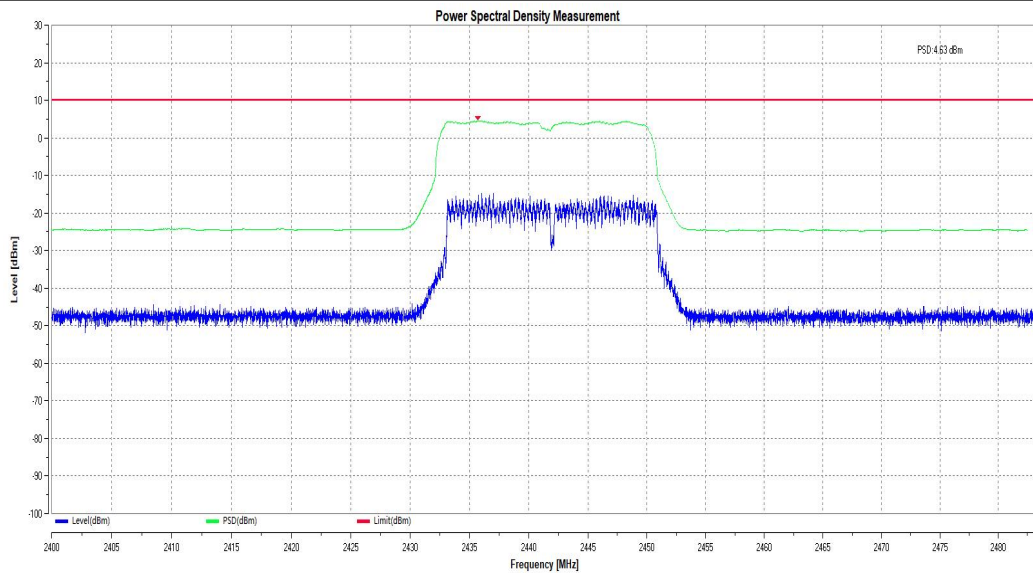
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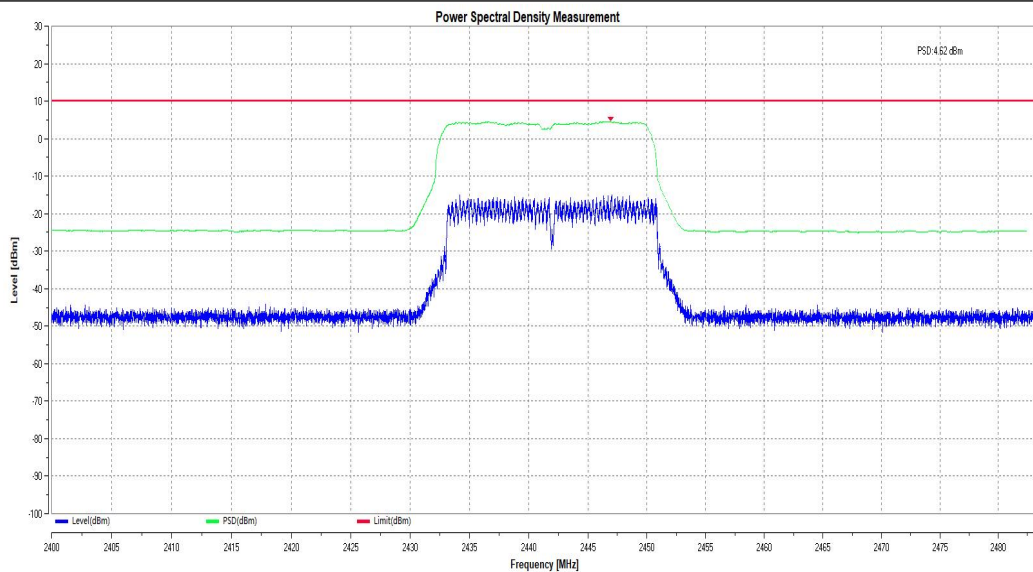
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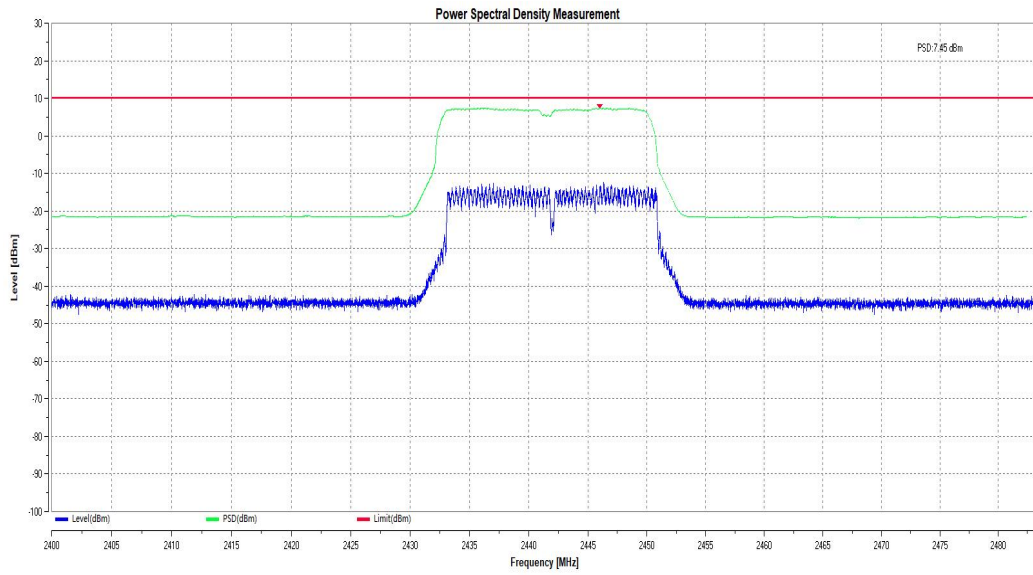
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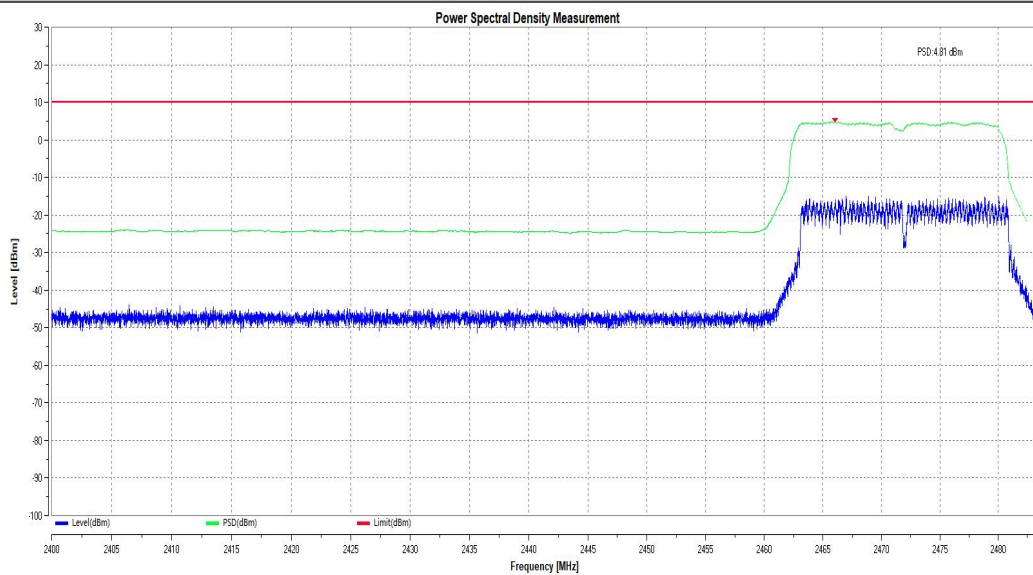
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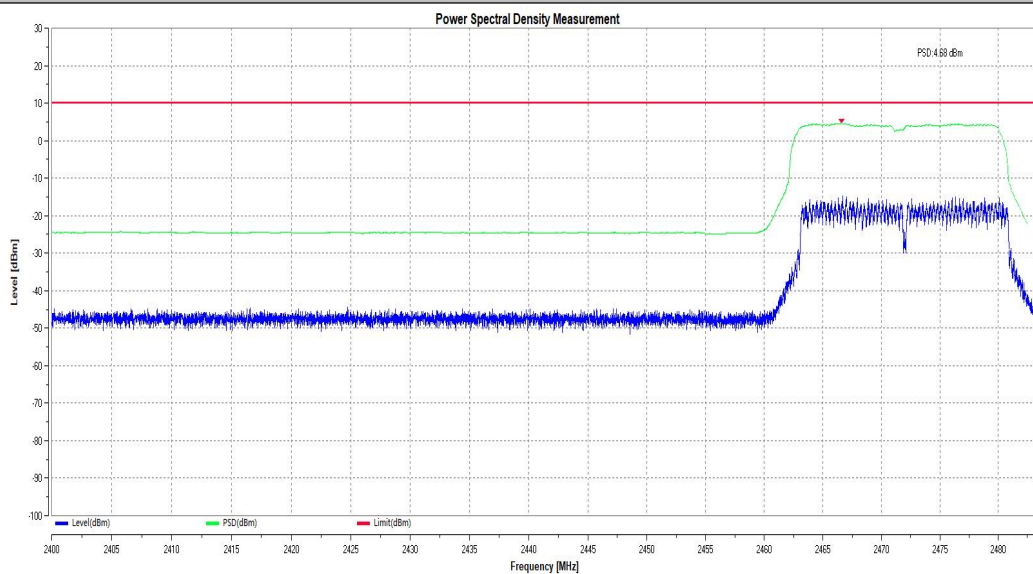
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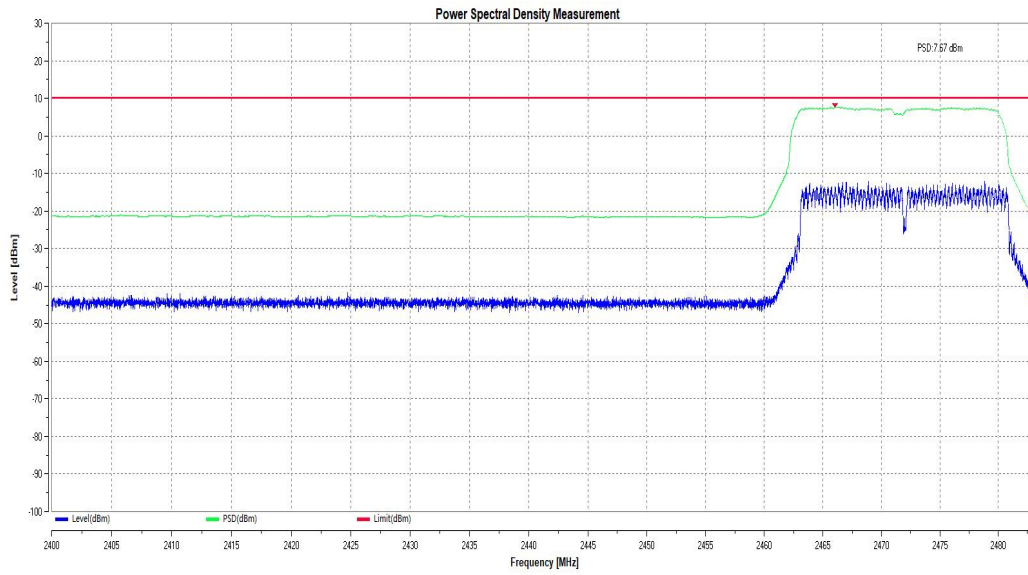
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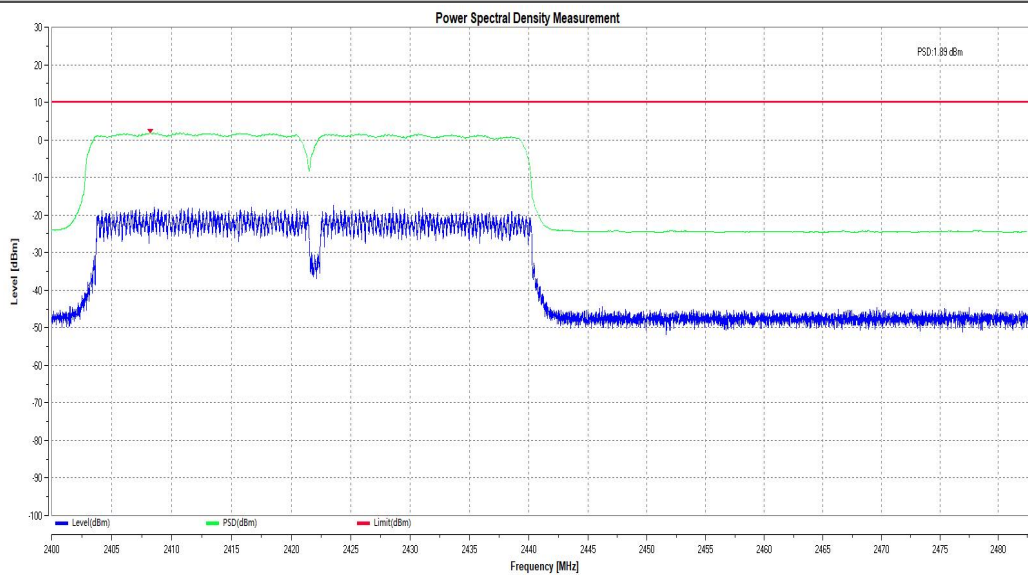
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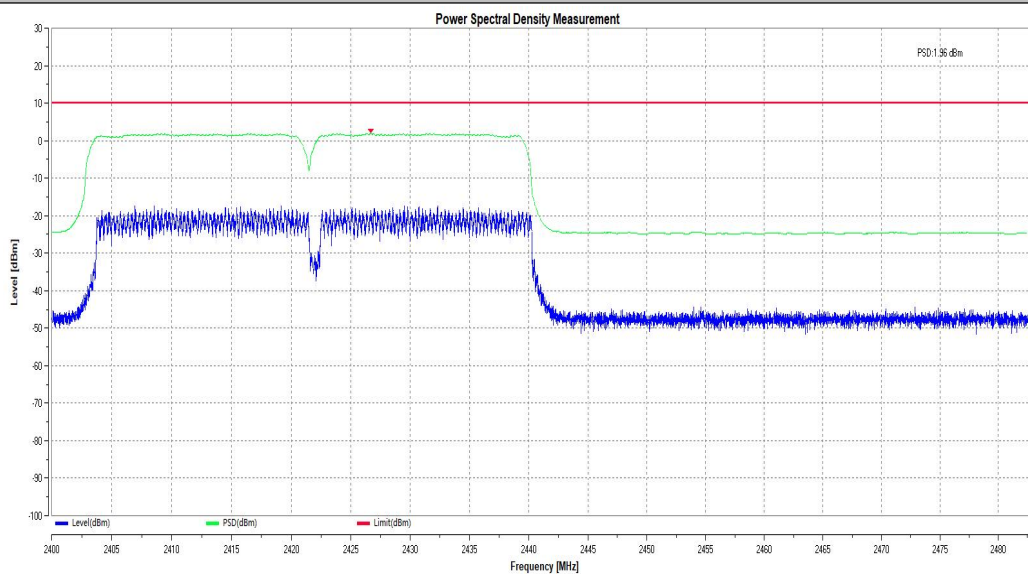
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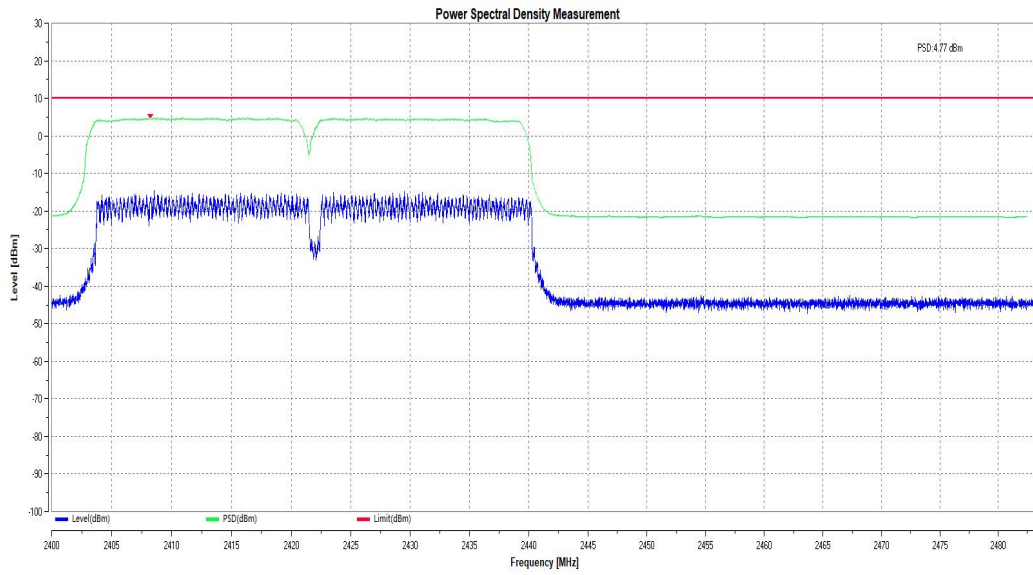
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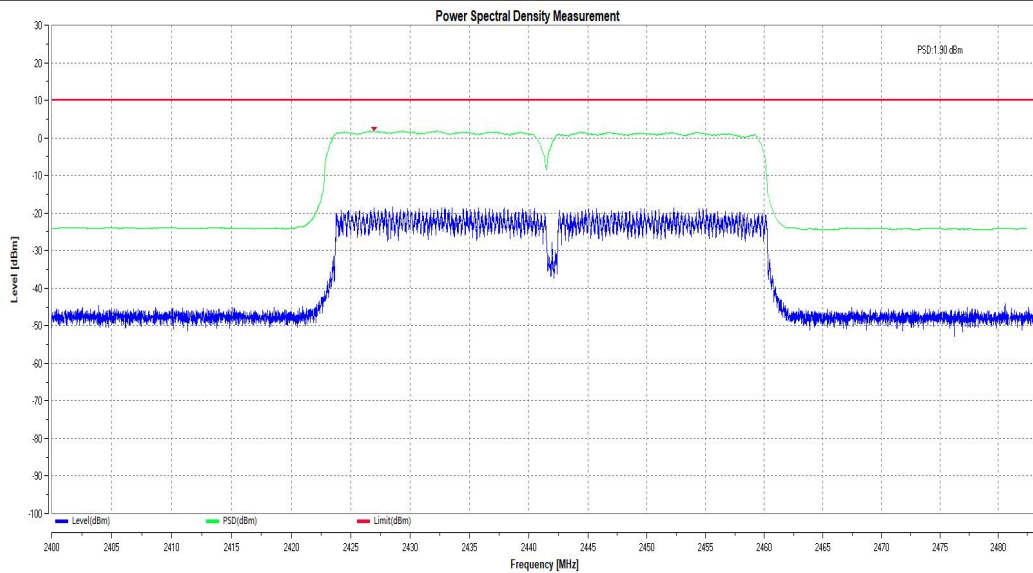
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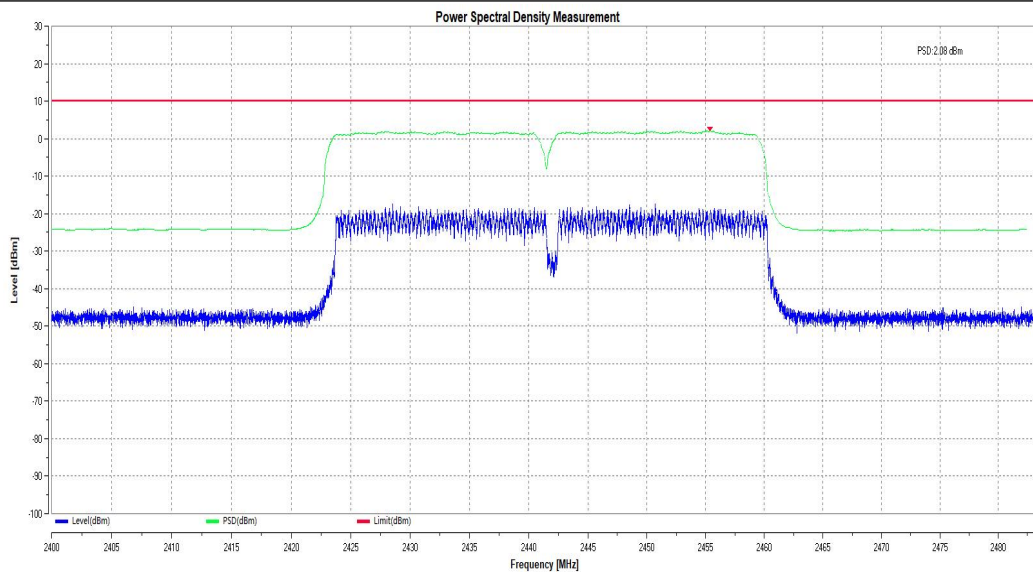
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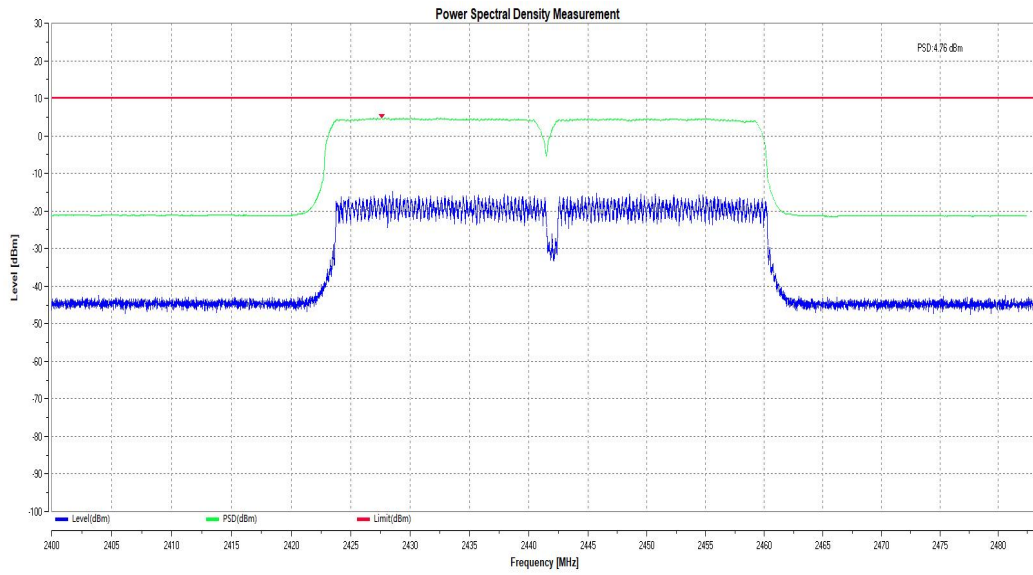
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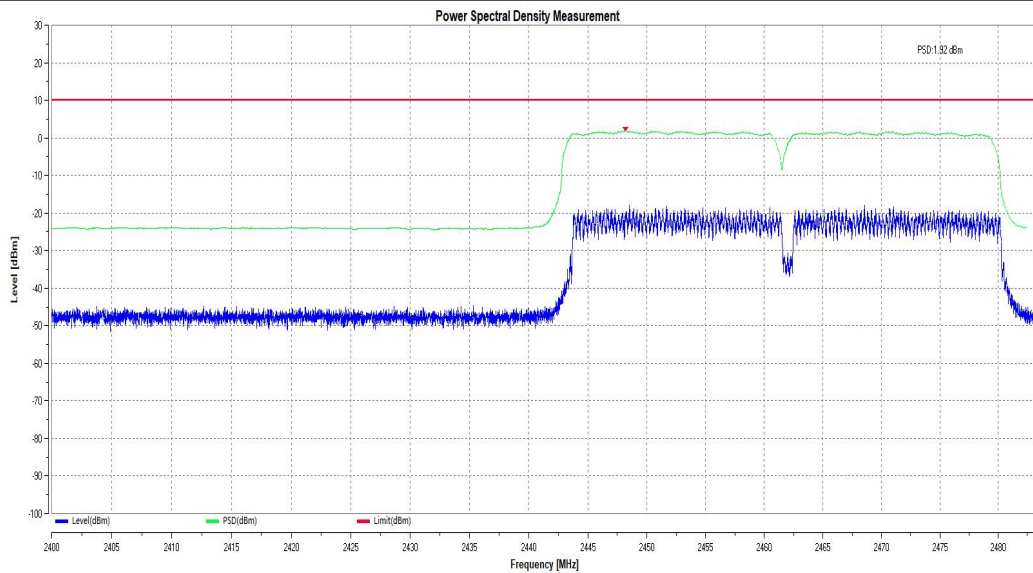
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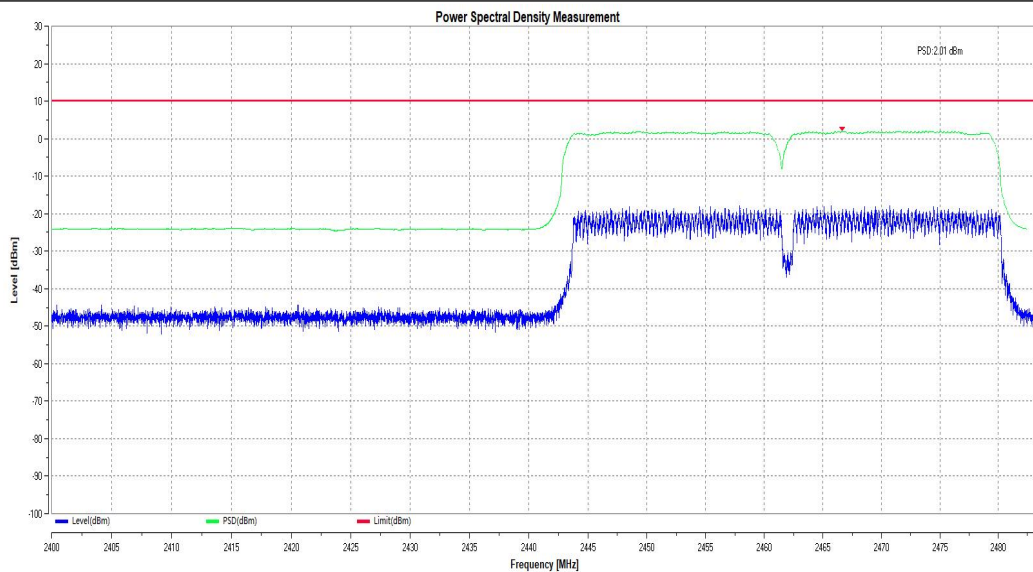
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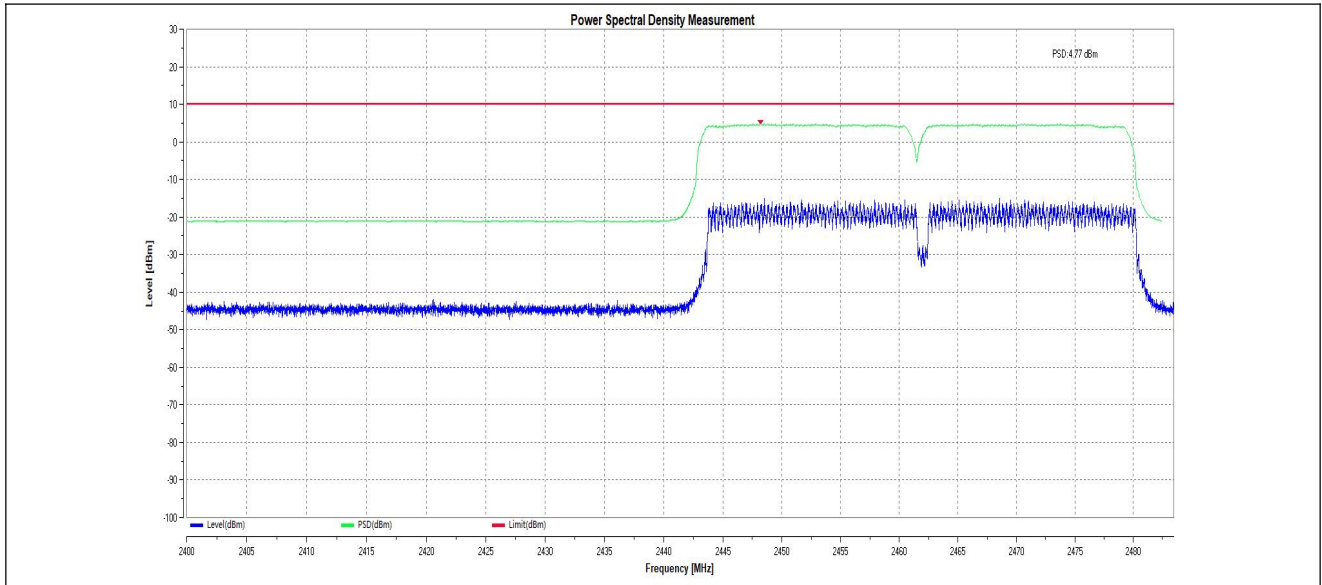
11AX40MIMO_Ant1_2462



11AX40MIMO_Ant2_2462



11AX40MIMO_total_2462



(Note: The Duty Cycle Factor and antenna gain are compensated in the data.)

3.3 Adaptivity (Refer to clause 4.3.2.6)

3.3.1 Limit

Adaptivity	
This requirement does not apply to non-adaptive equipment or adaptive equipment operating in a non-adaptive mode providing the equipment complies with the requirements and/or restrictions applicable to non-adaptive equipment. In addition, this requirement does not apply for equipment with a maximum declared RF Output power level of less than 10 dBm e.i.r.p. or for equipment when operating in a mode where the RF Output power is less than 10 dBm e.i.r.p. Load Based Equipment(see clause 4.3.2.6.3.2.3): Load Based Equipment may implement an LBT based spectrum sharing mechanism referenced shell comply the following minimum set of requirements:	
Requirement	Operational Mode
	Load Based Equipment (Base on 'Spectrum Sharing' mechanisms)
Minimum Clear Channel Assessment (CCA) Time	(see NOTE 1)
Maximum Channel Occupancy (COT) Time	(see NOTE 1)
Minimum Idle Period	(see NOTE 1)
Extended CCA check	(see NOTE 1)
Short Control Signalling Transmissions	Maximum duty cycle of 10 % within an observation period of 50 ms (see NOTE 2&3)
NOTE 1: Load Based Equipment may implement an LBT based spectrum sharing mechanism based on the Clear Channel Assessment (CCA) mode using energy detect, as described in IEEE 802.11™-2012 clause 9, clause 10, clause 16, clause 17, clause 19 and clause 20, or in IEEE 802.15.4™-2011 [i.4], clause 4, clause 5 and clause 8 NOTE 2: Adaptive equipment may or may not have Short Control Signalling Transmissions NOTE 3: Regarding to the test software how to capture the duty cycle within 50ms, we checked with our software supplier and they told us the whole process about this as follow: The measurement timing begins at the end of interference signal (AWGN/CW), e.g. the interference signal end in 10000ms, so the software will conduct the calculation from 10000ms to 10050ms, record the value. Next from 10001~10051ms, calculate the duty cycle and record by the software, repeat this action to calculate the duty cycle in the whole time(e.g. 120s), according to the calculate results to choose the highest duty cycle as the test result. The test result as follow:	

Unwanted Signal Parameters			
Wanted Signal Mean Power from Companion Device	Unwanted Signal Frequency (MHz)	Unwanted Signal Mean power (dBm)	Type of Interfering Signal
sufficient to maintain the link (see note 2)	2395 or 2488,5 (see note 1)	-35 (see note 3)	CW (see note 4)
Note 1: The highest frequency shall be used for testing operating channels within the range 2 400 MHz to 2442 MHz, while the lowest frequency shall be used for testing operating channels within the range 2 442 MHz to 2 483,5 MHz. Note 2: A typical value which can be used in most cases is -50 dBm/MHz. Note 3: The level specified is the level in front of the EUT antenna. In case of conducted measurements, this level has to be corrected by the actual antenna assembly gain. Note 4: CW means Continuous Wave.			

Interference Signal used for adaptivity tests	
The inference signal used in the adaptivity tests shall be a band limited noise signal with a 100 % duty cycle.	
The flatness, bandwidth and power spectral density of the interference signal can be verified with the following procedure:	
Centre Frequency	equal to the channel frequency to be tested
span	2 × the nominal channel bandwidth
Resolution BW	1 % of the nominal channel bandwidth
Video BW	3 × the Resolution BW
Sweep Points	2 × the Span divided by the Resolution BW
Detector	Peak
Trace Mode	Trace Averaging
Number of sweeps	Sufficient to let the signal stabilize
Sweep time	Auto
The level of this interference signal can be measured with a spectrum analyser using the following settings:	
Centre Frequency	equal to the channel frequency to be tested
Span	Zero
Resolution BW	1 MHz
Video BW	3 MHz
Detector	RMS
Trace Mode	Clear Write
Number of sweeps	Signal
Sweep time	1s
Note 1: Interference signal as defined in clause B.7	

3.3.2 Test Peripherals

Support Equipment				
No.	Equipment	Brand Name	Model Name	Remarks
1	Record PC	Lenovo	M4000q	N/A
2	Notebook	V14G4AMN	Lenovo	N/A
3	Ipad	Apple	Ipadmini5	N/A

3.3.3 Test Procedure

Test Method	
●Conducted Measurement	○Radiated Measurement
Test Channels	
○Lowest, Middle and Highest Channel	● Lowest and Highest Channel
Environmental conditions	
●Normal	○Normal and Extreme
Note:●:Test ○:No Test	

a) The EUT shall connect to a companion device during the test. The interference signal generator, the unwanted signal generator, the spectrum analyser, the EUT and the companion device are connected using the set-up as follow. The spectrum analyser is used to monitor the transmissions of both the EUT and the companion device and it should be possible to distinguish between either transmissions. In addition the spectrum analyser is used to monitor the transmissions of the EUT in response to the interfering and the unwanted signals.

b) Adjust the received signal level (wanted signal from the companion device) at the EUT to the value defined in table 11 (clause 4.3.2.6.3.2.3) for Load Based Equipment.

c) The analyser shall be set as follows:

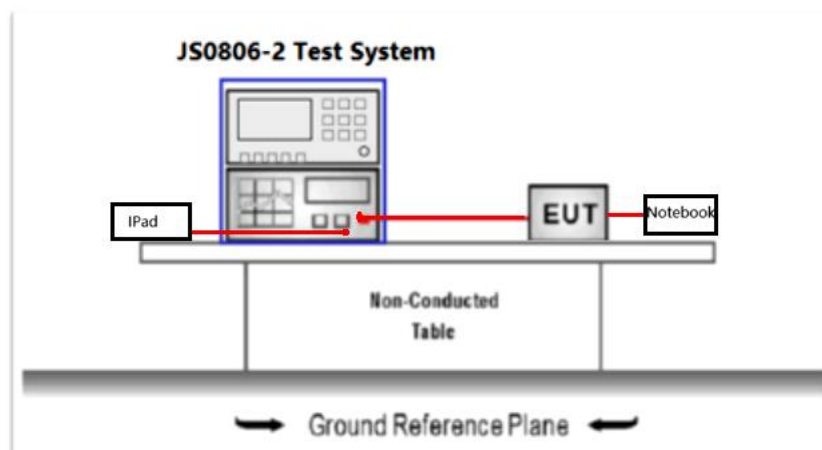
RBW	8MHz
VBW	8MHz
Detector Mode	RMS
Centre Frequency	Equal to the centre frequency of the operating channel
Span	0 Hz
Sweep time	> Channel Occupancy Time
Trace Mode	Clear/Write
Trigger	Video

d) Configure the EUT for normal transmissions with a sufficiently high payload resulting in a minimum transmitter activity ratio (TxOn / (TxOn + TxOff)) of 0,3.

e) After checking the duty cycle is ok, capture the max COT from 11b/11n (20MHz)/11n (40MHz), and record the COT.

- f) For Load Based equipment, using the procedure defined in clause 5.4.6.2.1.5, it shall be verified that the EUT complies with the maximum Channel Occupancy Time and minimum Idle Period defined in clause 4.3.2.6.3.2.3, step 2 and step 3. When measuring the Idle Period of the EUT, it shall not include the transmission time of the companion device.
- g) An interference signal defined in clause B.7 (as above) is injected on the current operating channel of the EUT. The power spectral density level (at the input of the EUT) of this interference signal shall be equal to the detection threshold : $TL = -70 \text{ dBm/MHz} + 10 \times \log_{10} (100 \text{ mW} / P_{out})$. The spectrum analyser shall be used to monitor the transmissions of the EUT on the selected operating channel with the interfering signal injected. The reaction to the interference signal is as the following:
- i. The EUT shall stop transmissions on the current operating channel.
 - ii. Apart from Short Control Signalling Transmissions, there shall be no subsequent transmissions while the interfering signal is present, the monitoring time may need to be 60s or more.
 - iii. The EUT may continue to have Short Control Signalling Transmissions on the operating channel while the interfering signal is present. These transmissions shall comply with the limits defined in clause 4.3.2.6.4.2.
- h) With the interfering signal present, a 100 % duty cycle CW signal is inserted as the unwanted signal. The frequency and the level are provided in table 11 (clause 4.3.2.6.3.2.3) for Load Based Equipment. The spectrum analyser shall be used to monitor the transmissions of the EUT on the selected operating channel. The reaction to the interference signal is as the following:
- i. The EUT shall not resume normal transmissions on the current operating channel as long as both the interference and unwanted signals remain present, the monitoring time may need to be 60s or more.
 - ii. The EUT may continue to have Short Control Signalling Transmissions on the operating channel while the interfering and unwanted signals are present. These transmissions shall comply with the limits defined in clause 4.3.2.6.4.2.
- i) On removal of the interference and unwanted signals the EUT is allowed to start transmissions again on this channel; however, this is not a requirement and, therefore, does not require testing.
- j) Step d to step h shall be repeated for each of the frequencies to be tested

3.3.4 Test Configuration



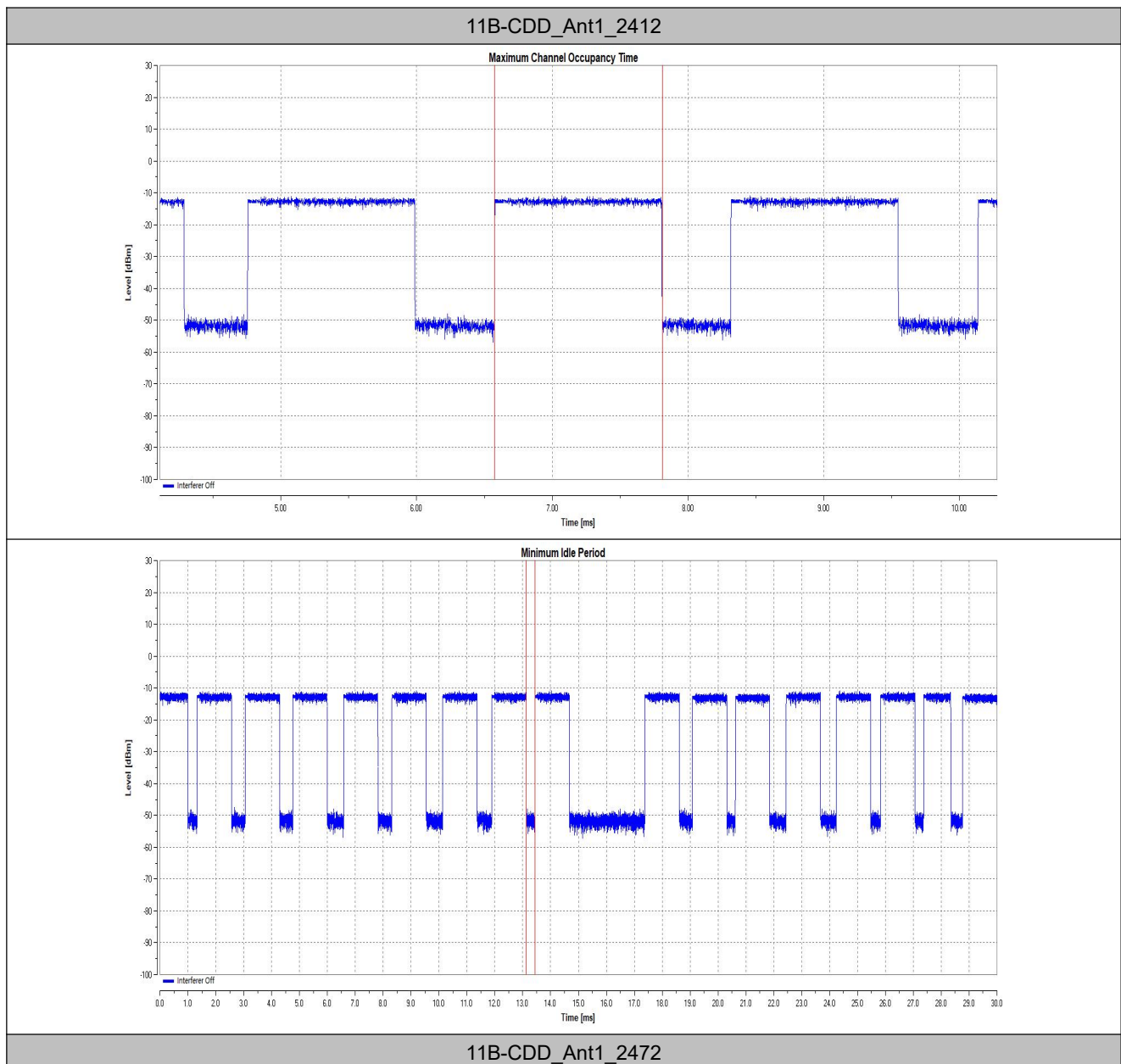
3.3.5 The Result of Adaptivity

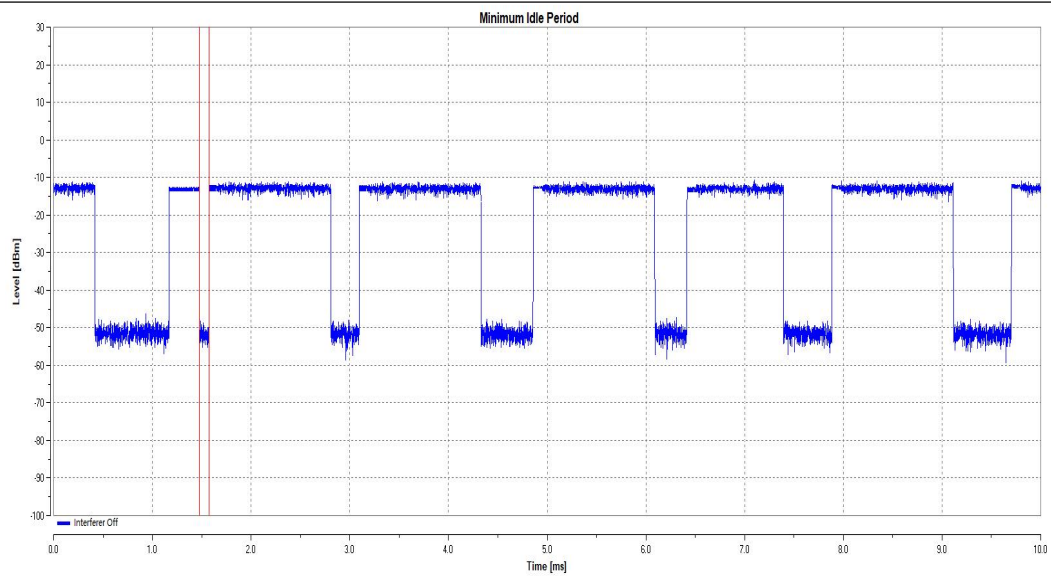
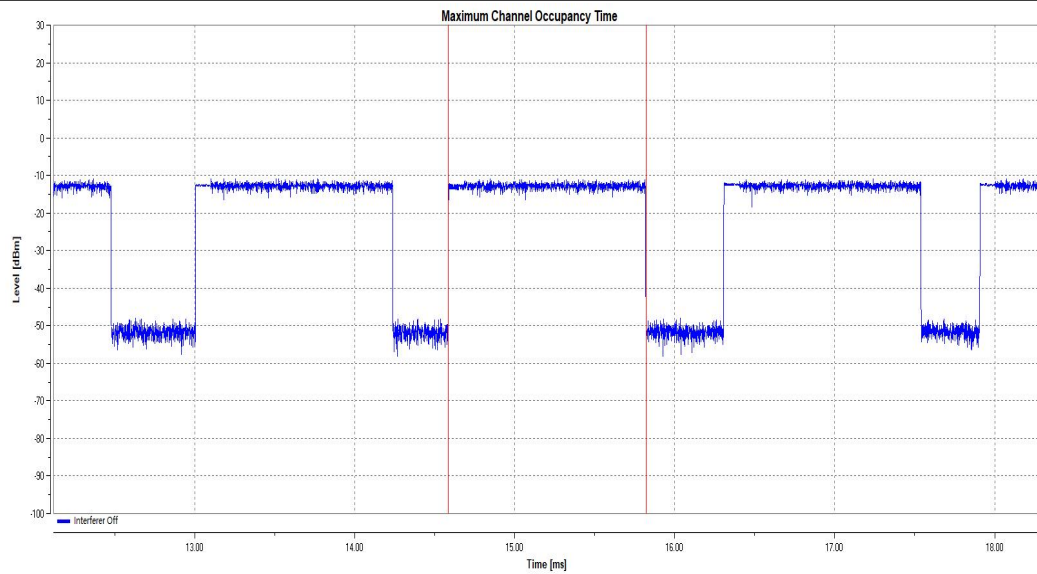
3.3.5.1 Test Result

TestMode	Antenna	Freq(MHz)	Max.COT [ms]	Limit[ms]	Min.Idle Time[ms]	Limit[ms]	Verdict
11B-CDD	Ant1	2412	1.234	13	0.307	0.018	PASS
		2472	1.234	13	0.100	0.018	PASS
11G-CDD	Ant1	2412	2.026	13	0.090	0.018	PASS
		2472	2.025	13	0.065	0.018	PASS
11N20MIMO	Ant1	2412	5.405	13	0.063	0.018	PASS
		2472	5.405	13	0.063	0.018	PASS
11N40MIMO	Ant1	2422	5.405	13	0.063	0.018	PASS
		2462	5.405	13	0.063	0.018	PASS
11AX20MIMO	Ant1	2412	5.406	13	0.056	0.018	PASS
		2472	5.350	13	0.038	0.018	PASS
11AX40MIMO	Ant1	2422	5.406	13	0.038	0.018	PASS
		2462	5.407	13	0.063	0.018	PASS

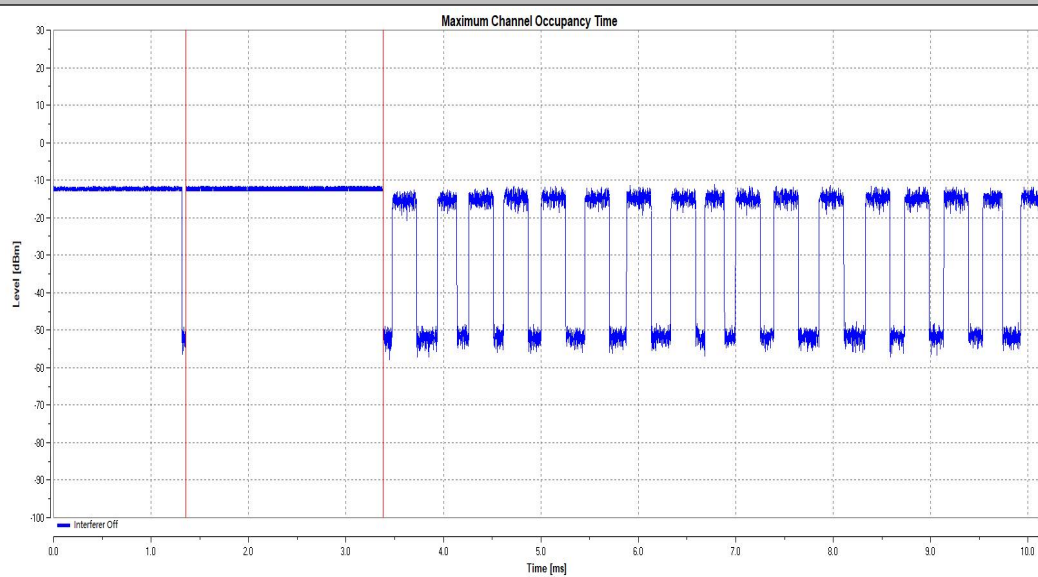
TestMode	Antenna	Freq(MHz)	Add Signal Type	Add Signal Time[ms]	Add Signal Level[dbm]	Max. Short Time [%]	Limit [%]	Verdict
11B-CDD	Ant1	2412	AWGN	3000	-60.00	3.20	10	PASS
			CW	63000	-31.00	0.00	10	PASS
		2472	AWGN	3000	-60.00	6.00	10	PASS
			CW	63000	-31.00	0.00	10	PASS
11G-CDD	Ant1	2412	AWGN	3000	-62.07	6.80	10	PASS
			CW	63000	-31.00	0.00	10	PASS
		2472	AWGN	3000	-62.40	5.80	10	PASS
			CW	63000	-31.00	0.00	10	PASS
11N20MIMO	Ant1	2412	AWGN	3000	-62.23	8.00	10	PASS
			CW	63000	-31.00	0.00	10	PASS
		2472	AWGN	3000	-62.41	5.60	10	PASS
			CW	63000	-31.00	0.00	10	PASS
11N40MIMO	Ant1	2422	AWGN	3000	-62.57	9.20	10	PASS
			CW	63000	-31.00	0.00	10	PASS
		2462	AWGN	3000	-62.53	6.40	10	PASS
			CW	63000	-31.00	0.00	10	PASS
11AX20MIMO	Ant1	2412	AWGN	3000	-62.45	7.00	10	PASS
			CW	63000	-31.00	0.00	10	PASS
		2472	AWGN	3000	-62.55	3.40	10	PASS
			CW	63000	-31.00	0.00	10	PASS
11AX40MIMO	Ant1	2422	AWGN	3000	-62.12	8.00	10	PASS
			CW	63000	-31.00	0.00	10	PASS
		2462	AWGN	3000	-62.60	8.40	10	PASS
			CW	63000	-31.00	0.00	10	PASS

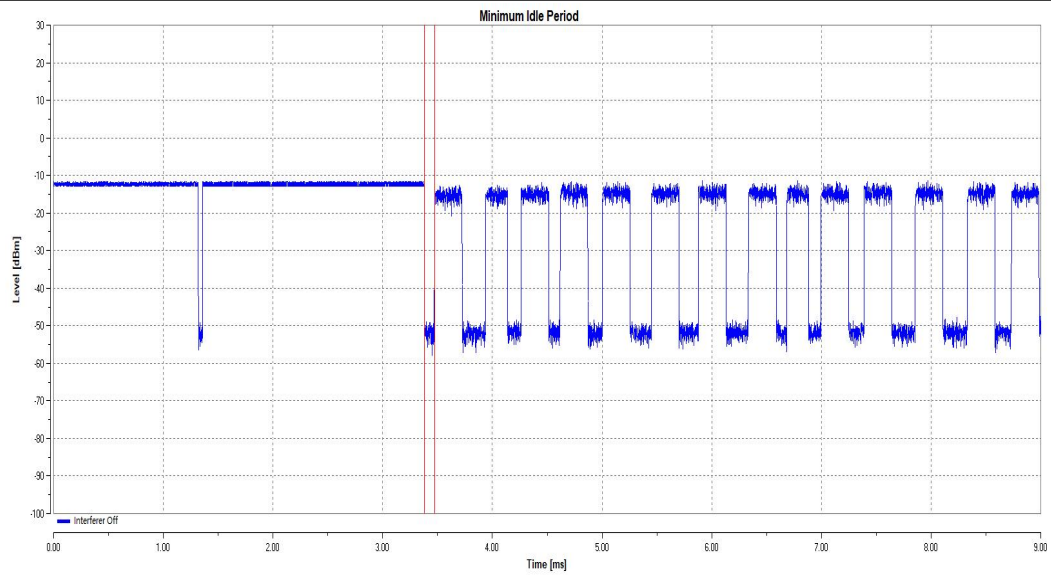
3.3.5.2 Test Graphs



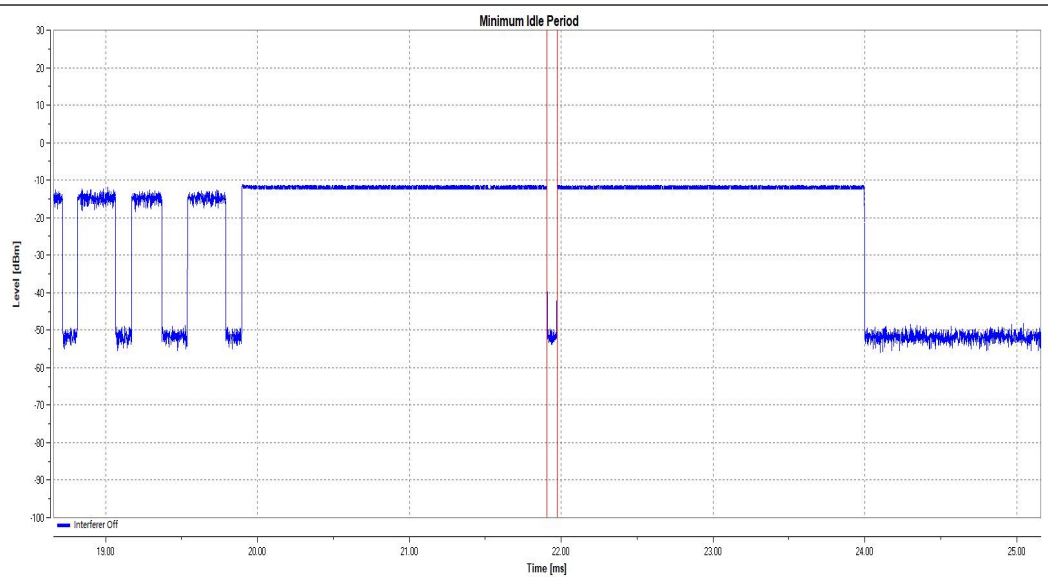
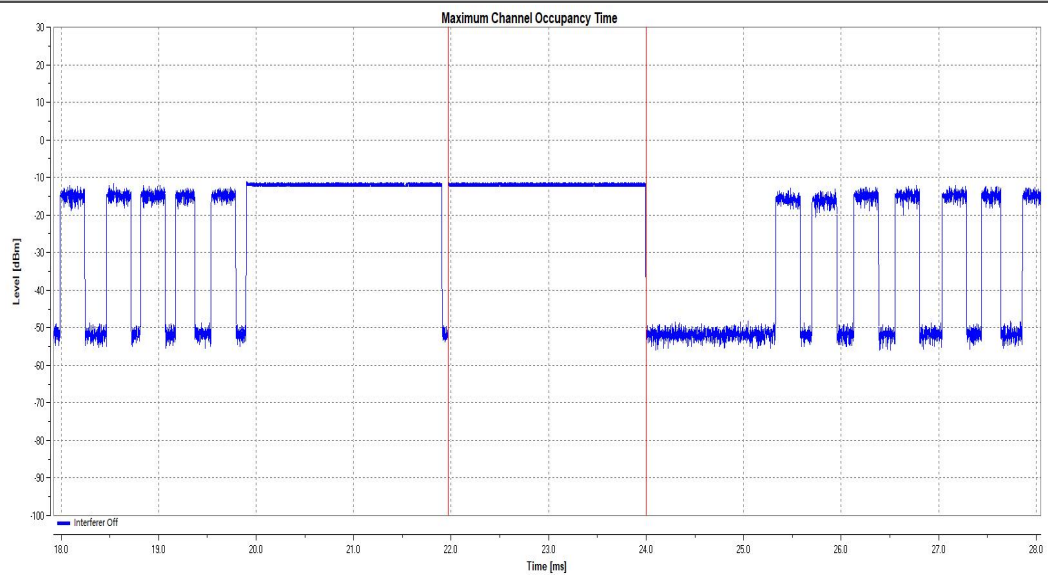


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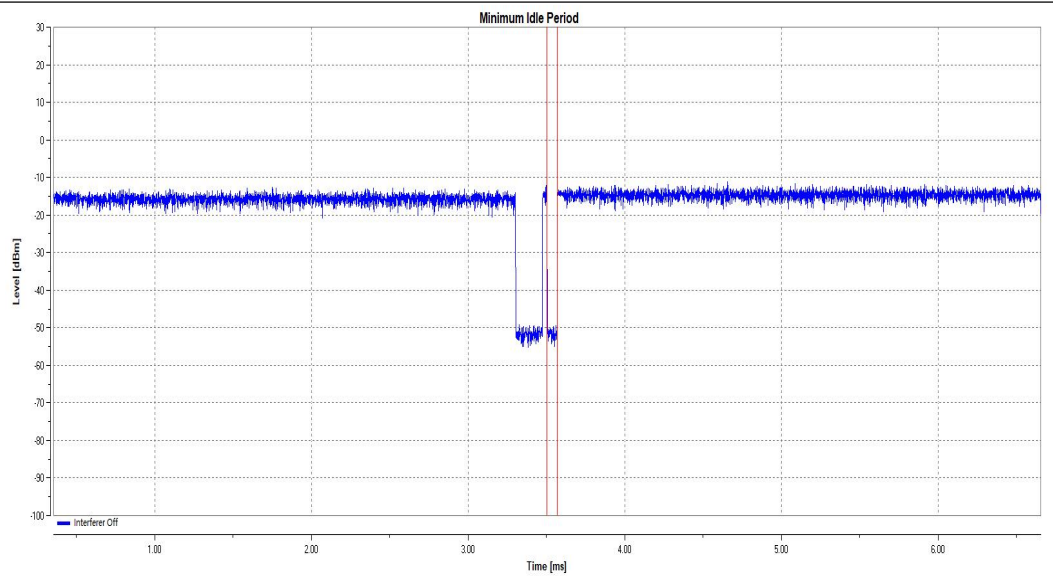
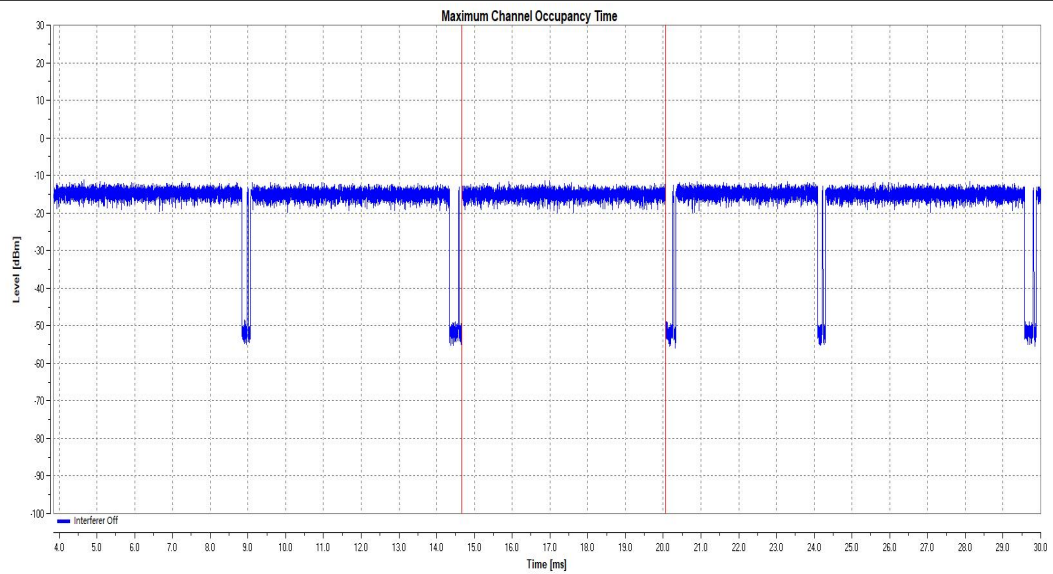




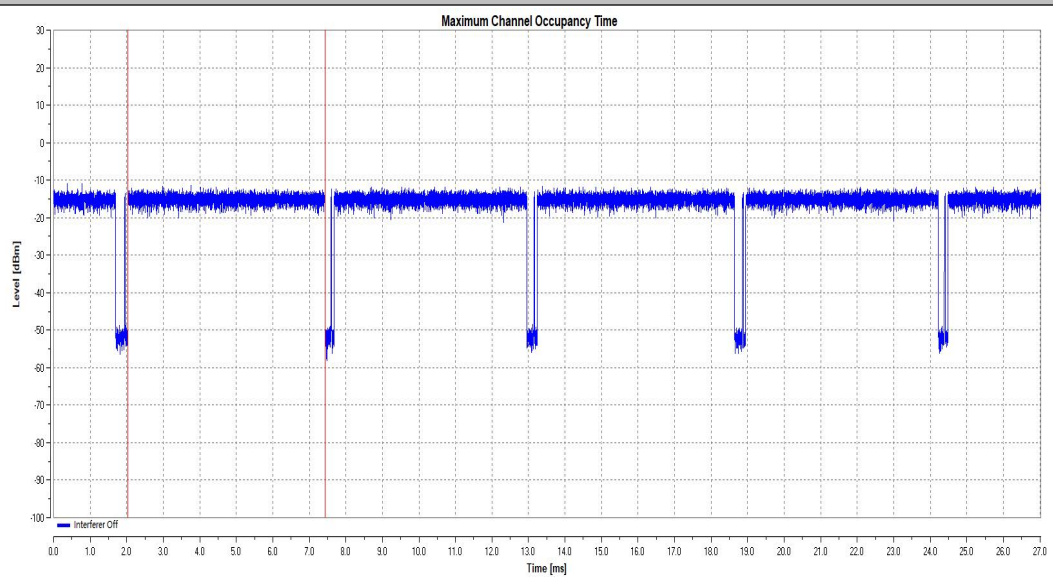
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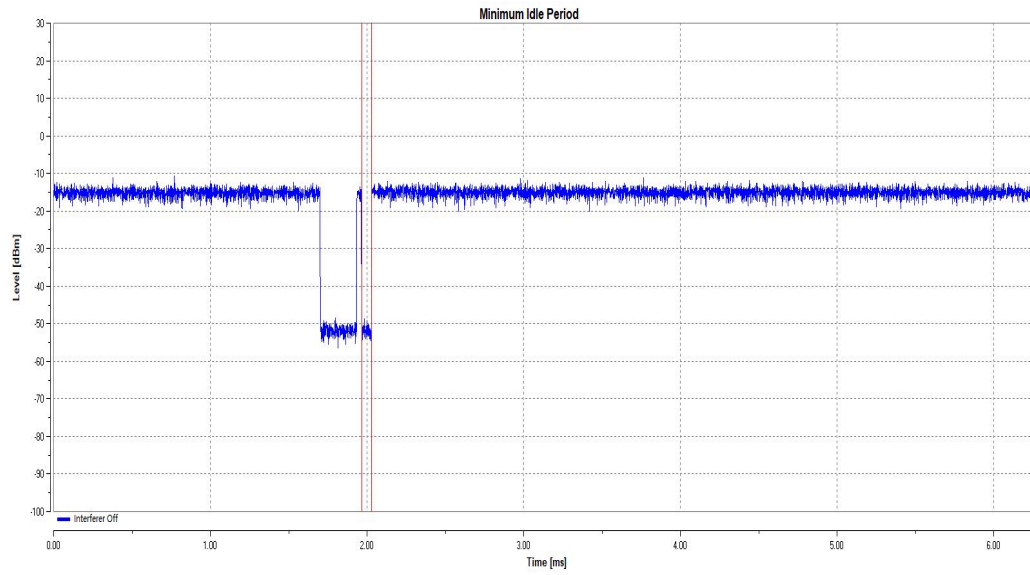


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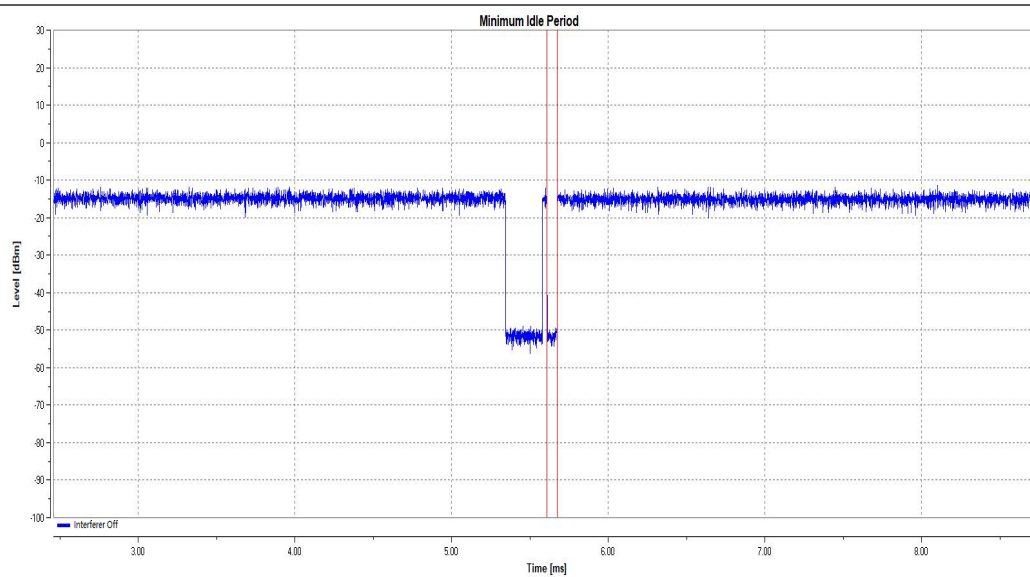
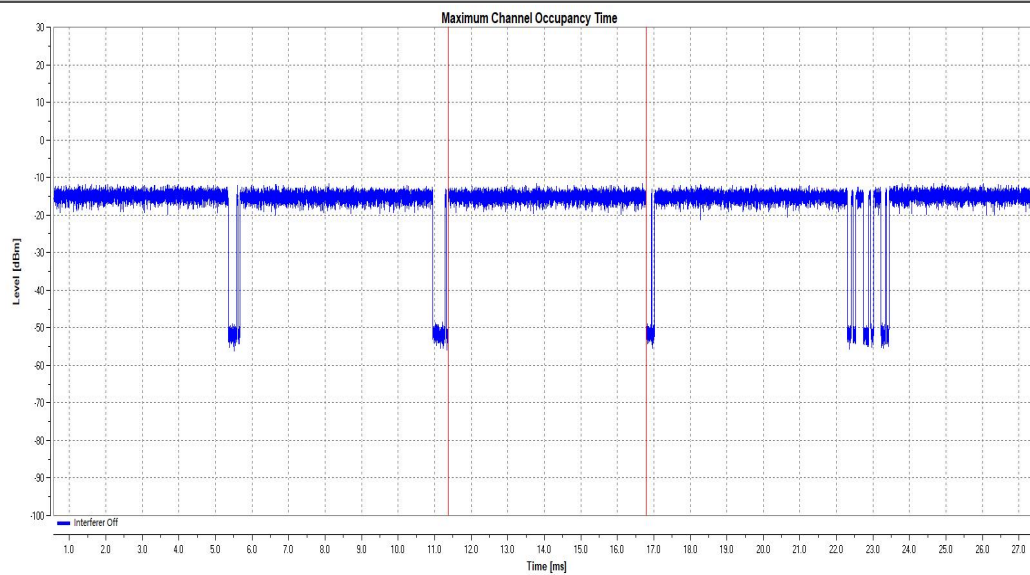


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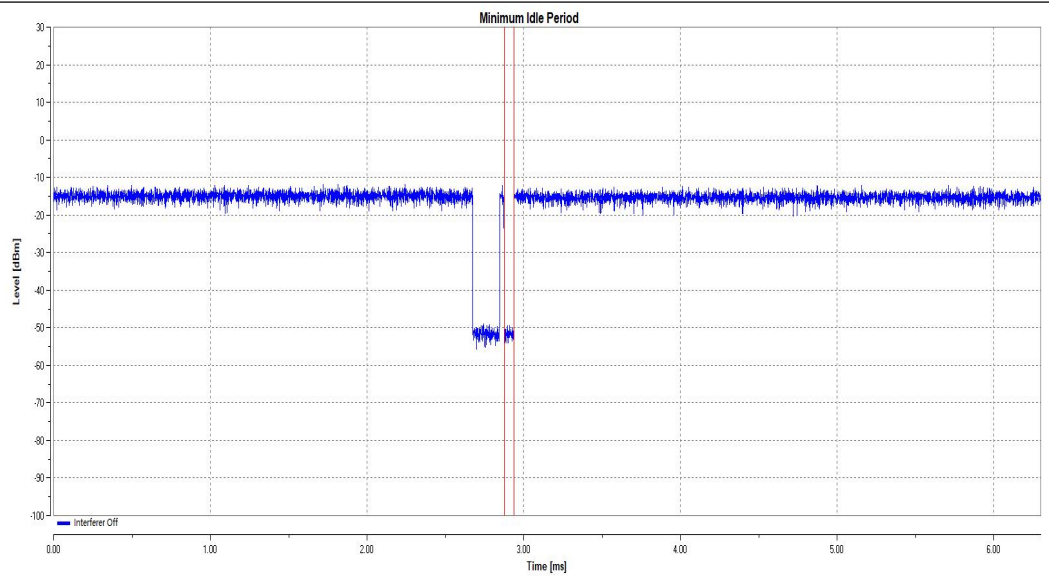
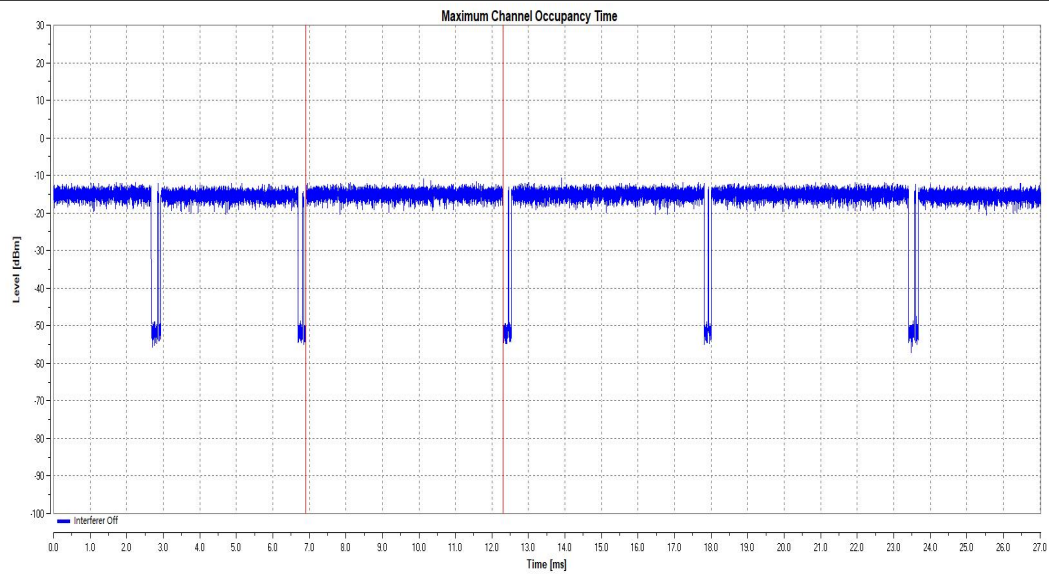




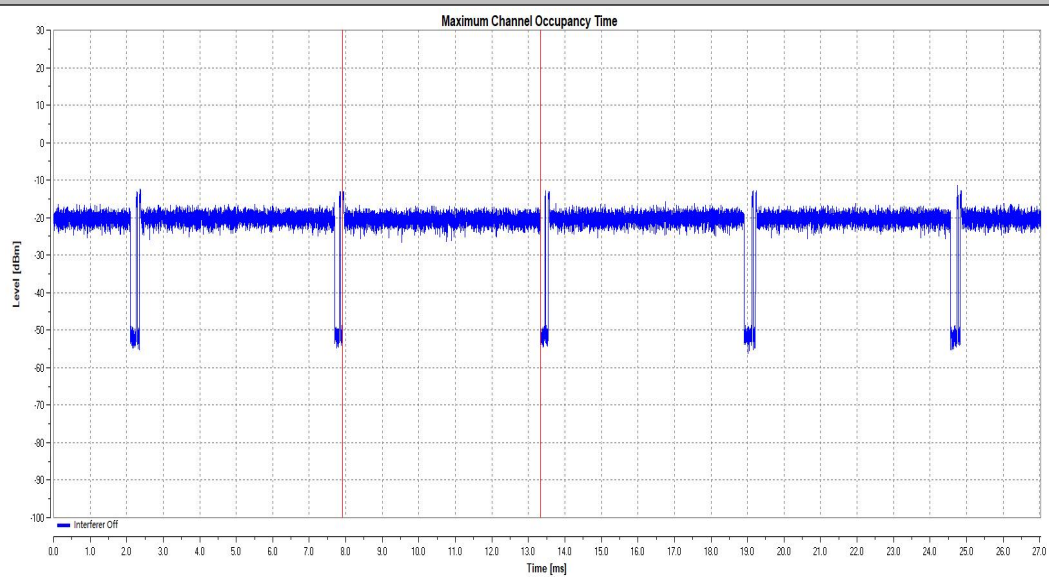
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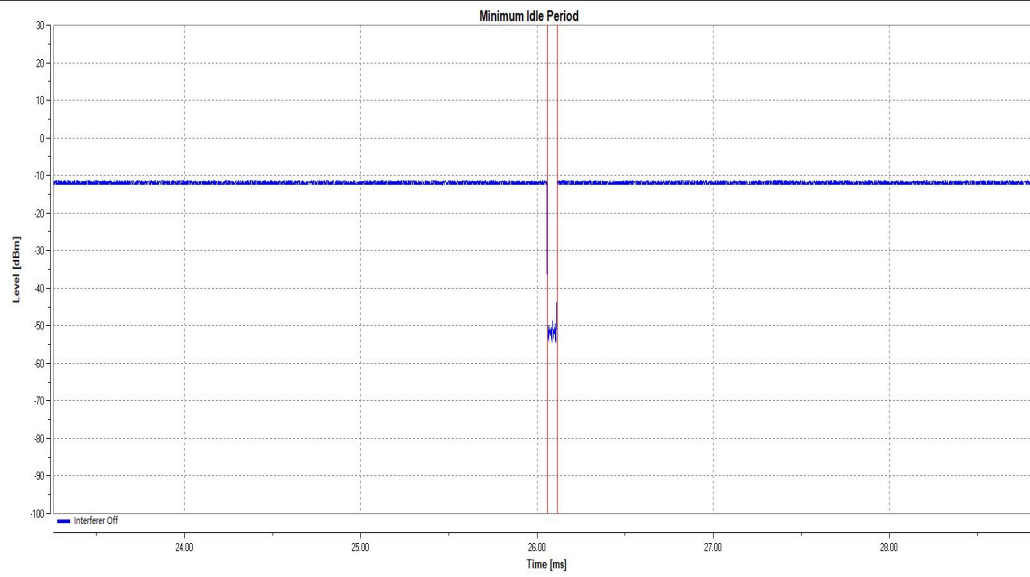


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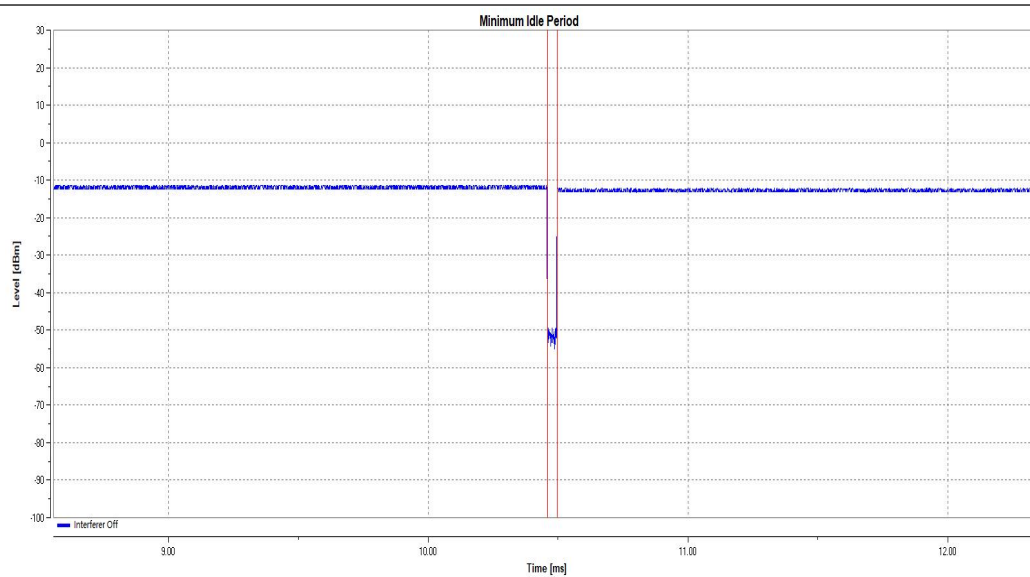
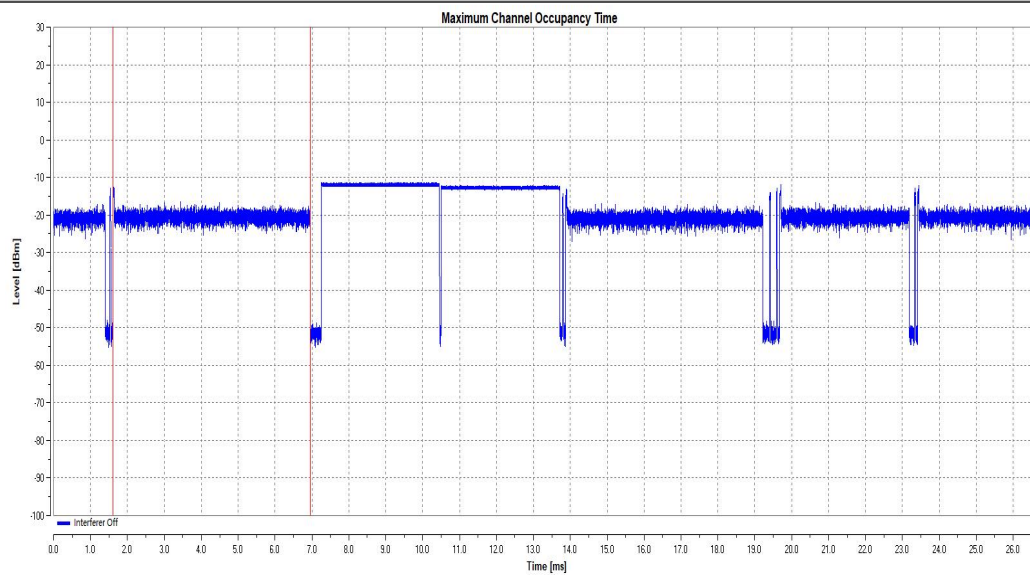


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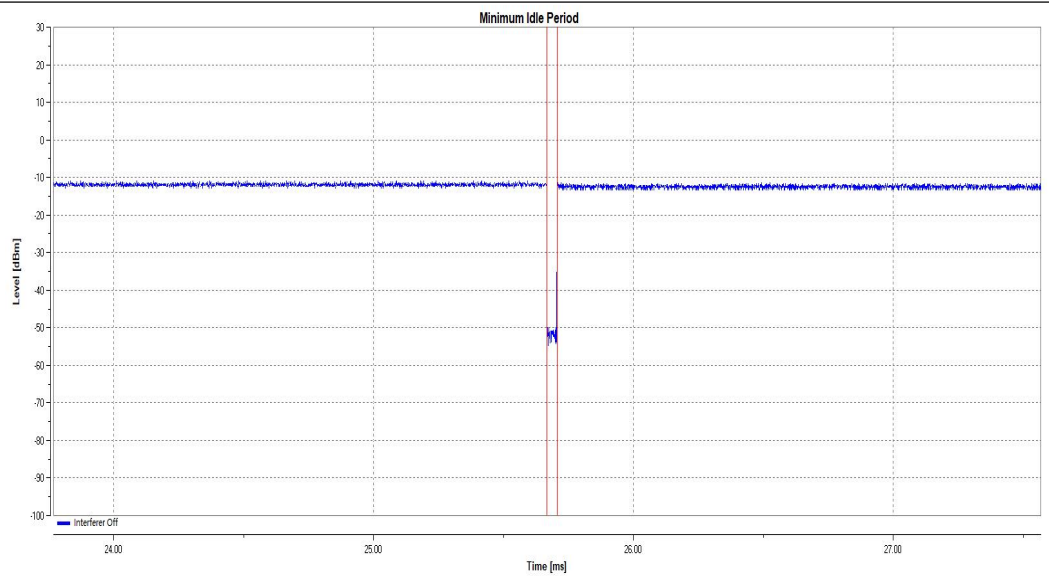
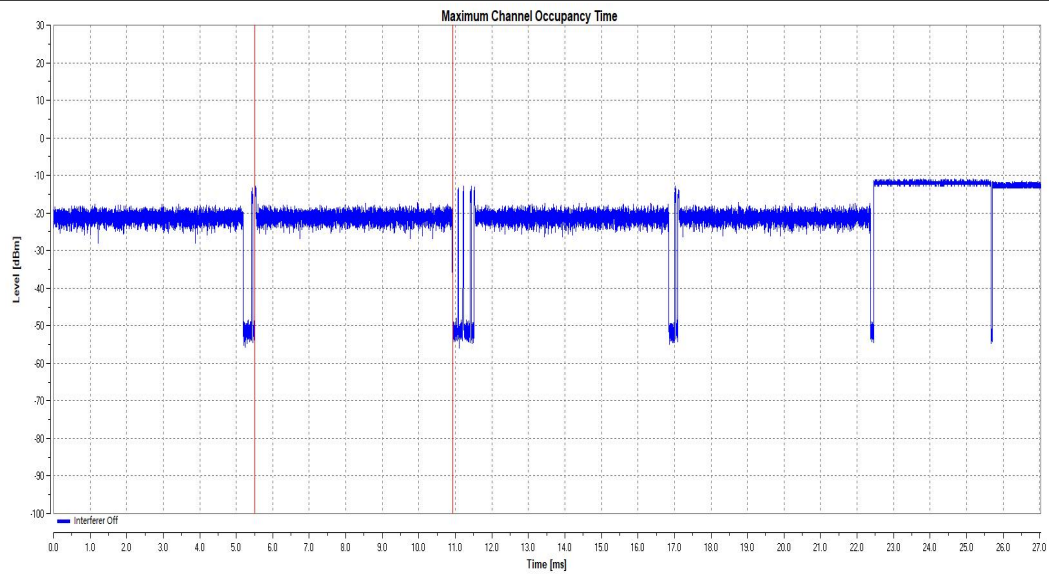




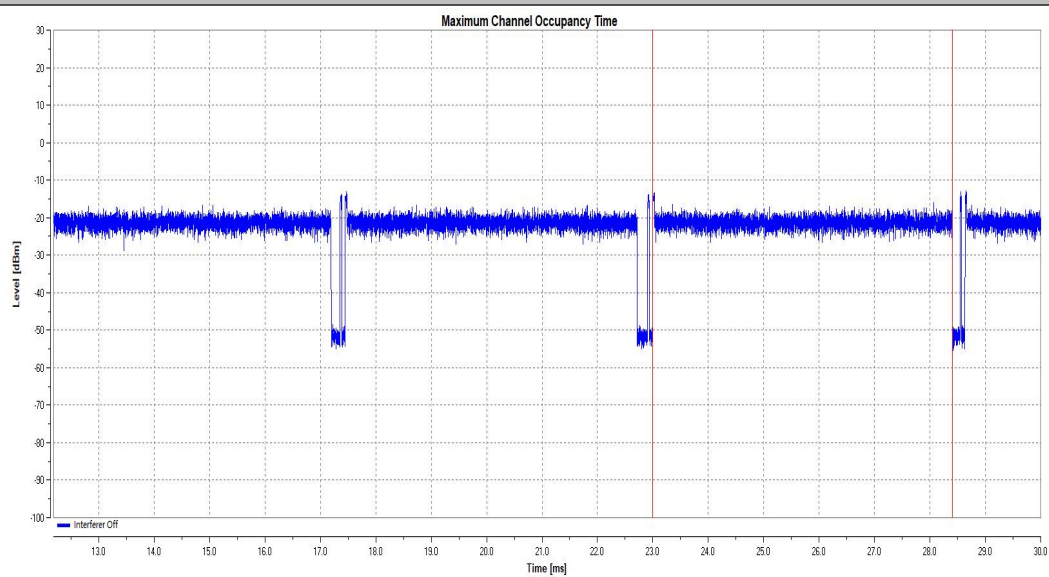
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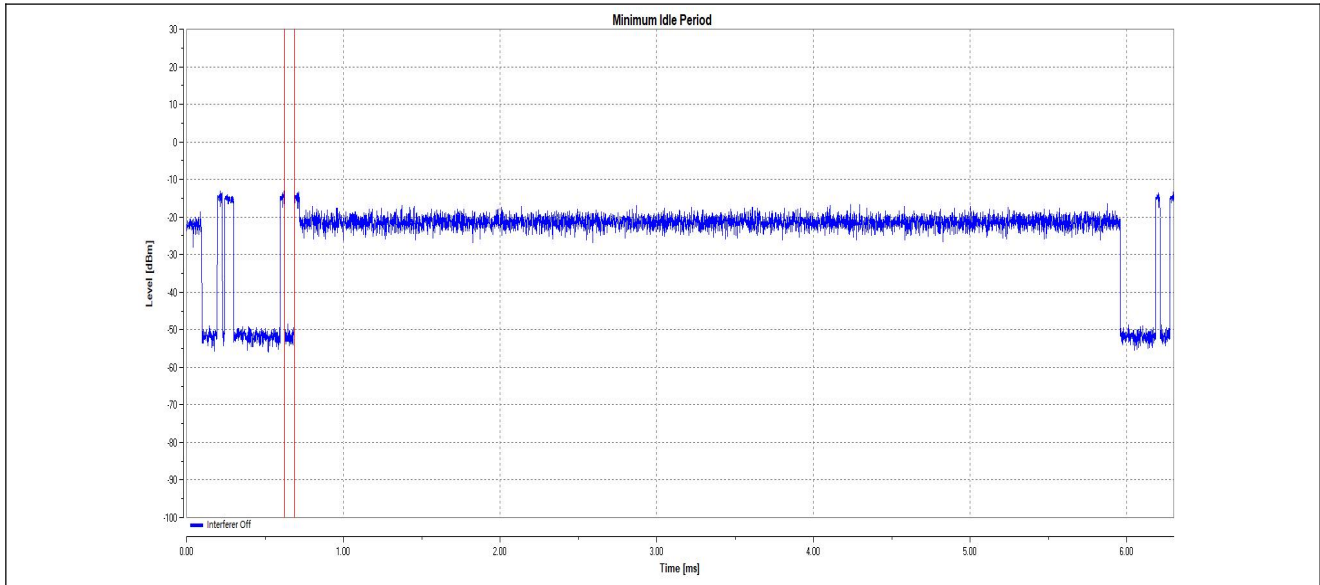


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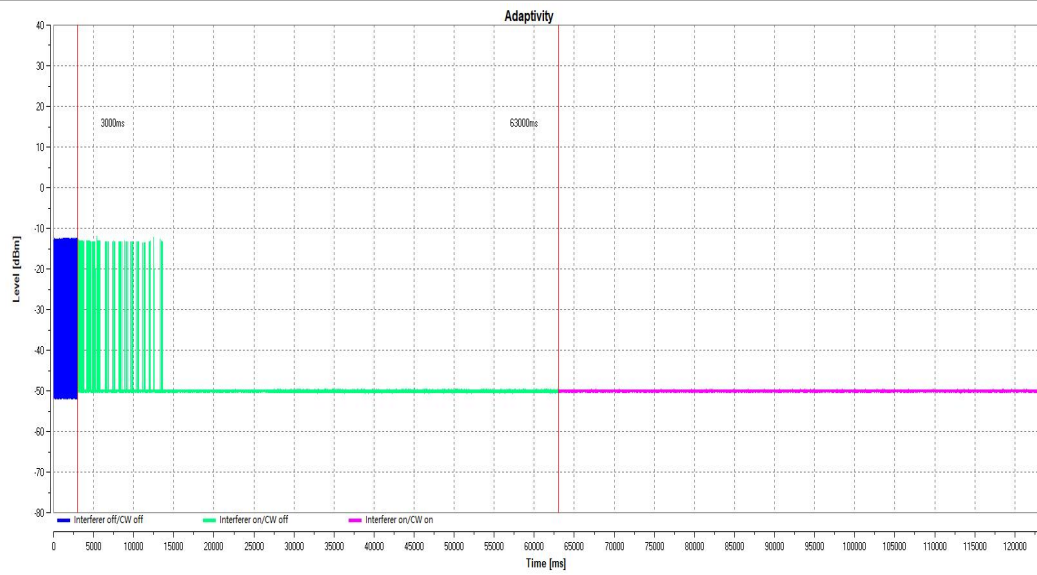


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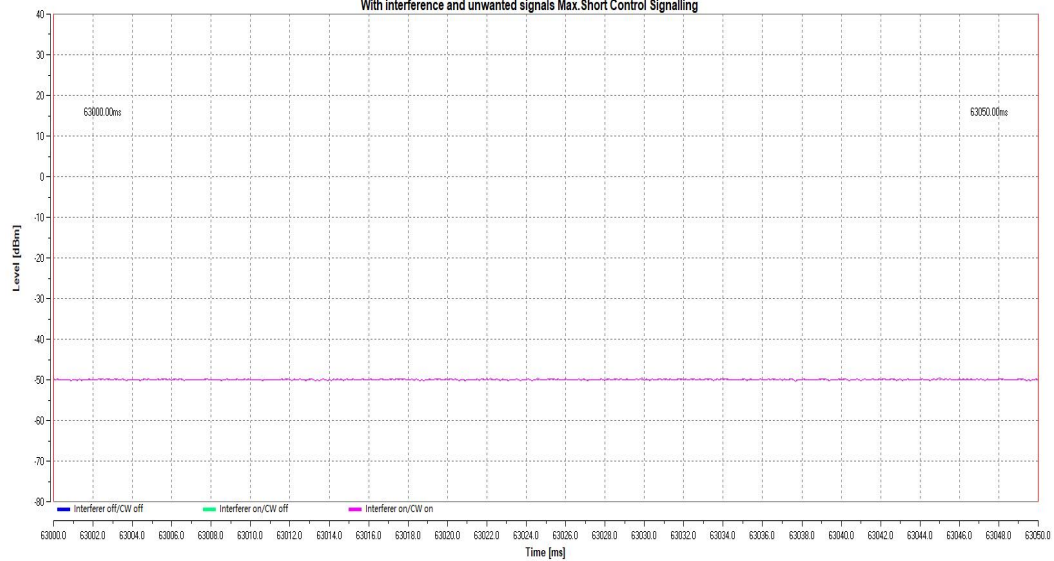
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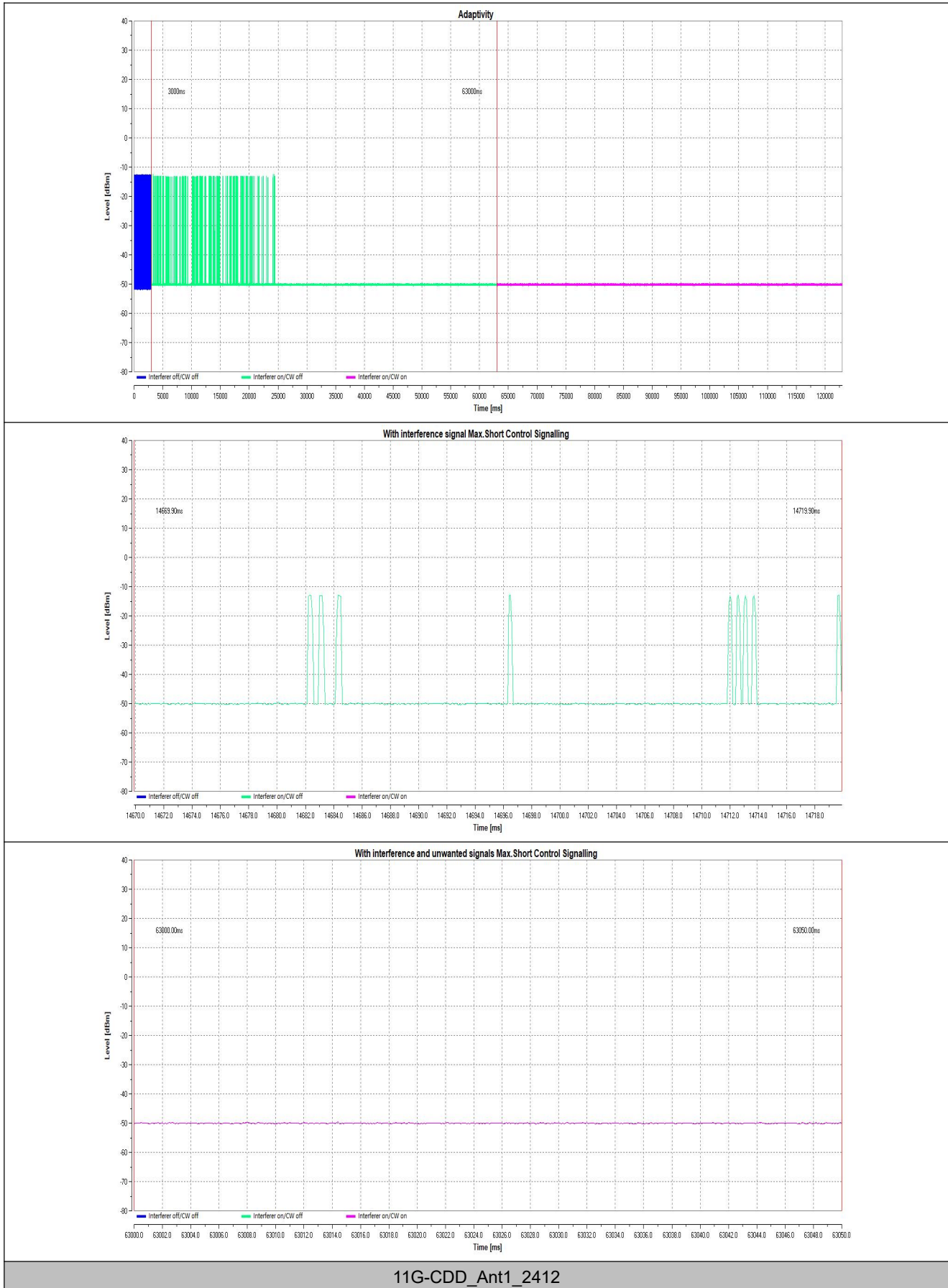
With interference signal Max.Short Control Signalling

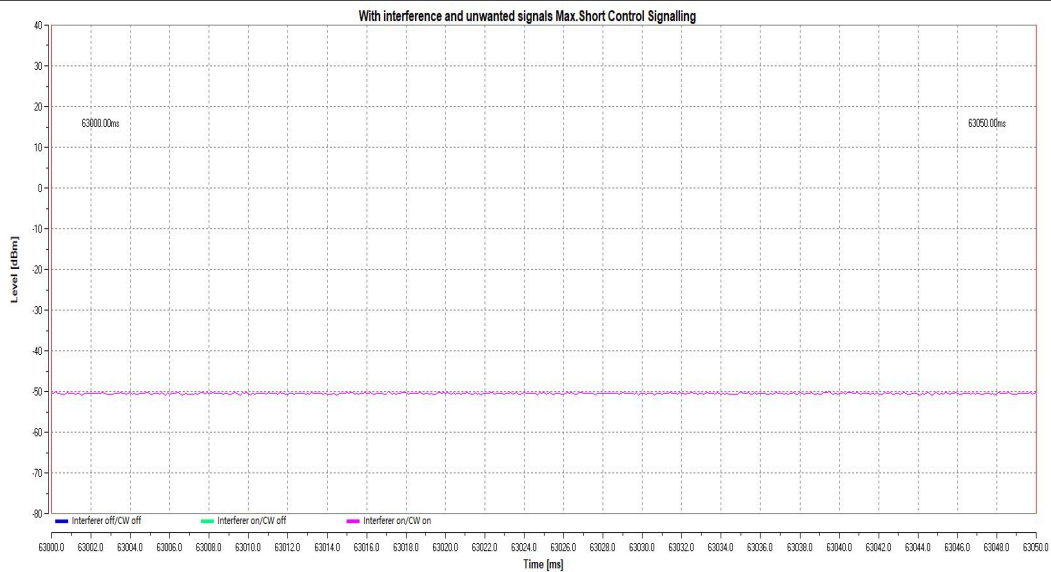
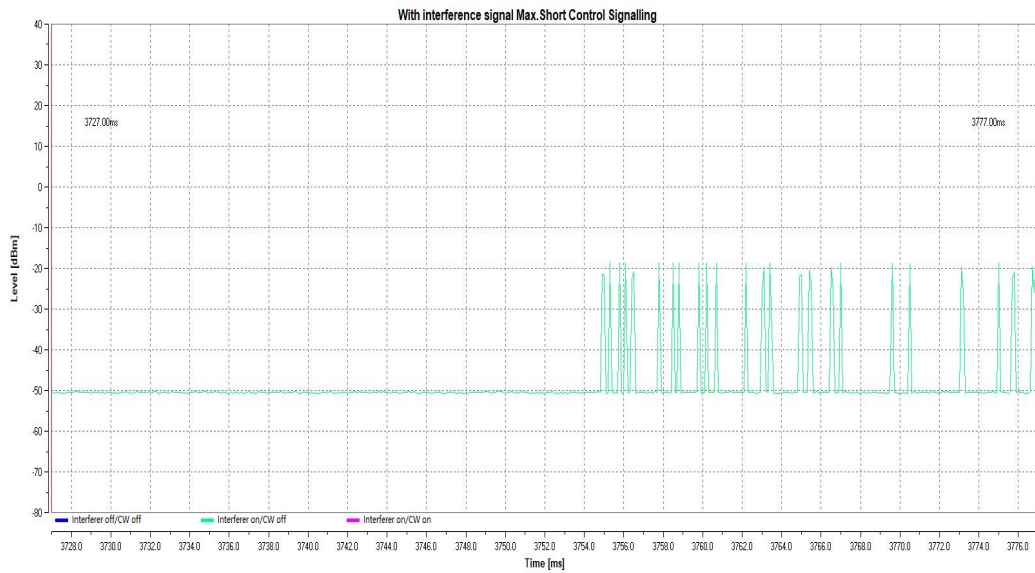
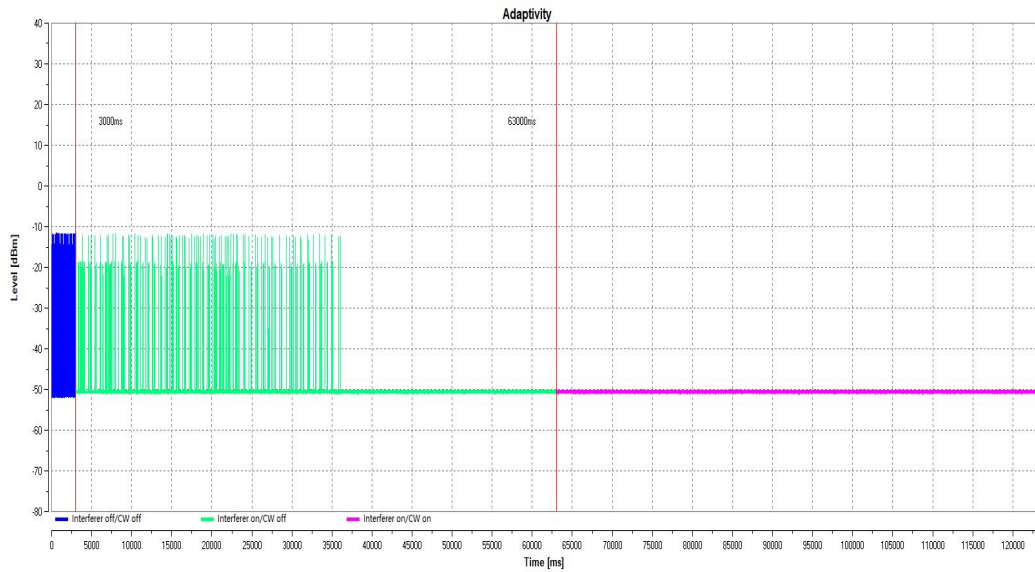


With interference and unwanted signals Max.Short Control Signalling

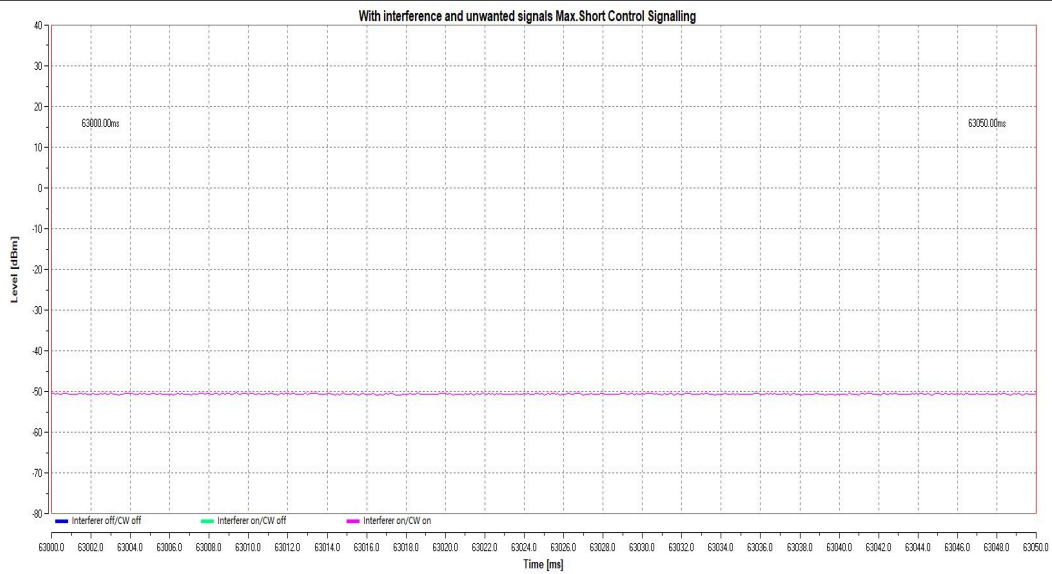
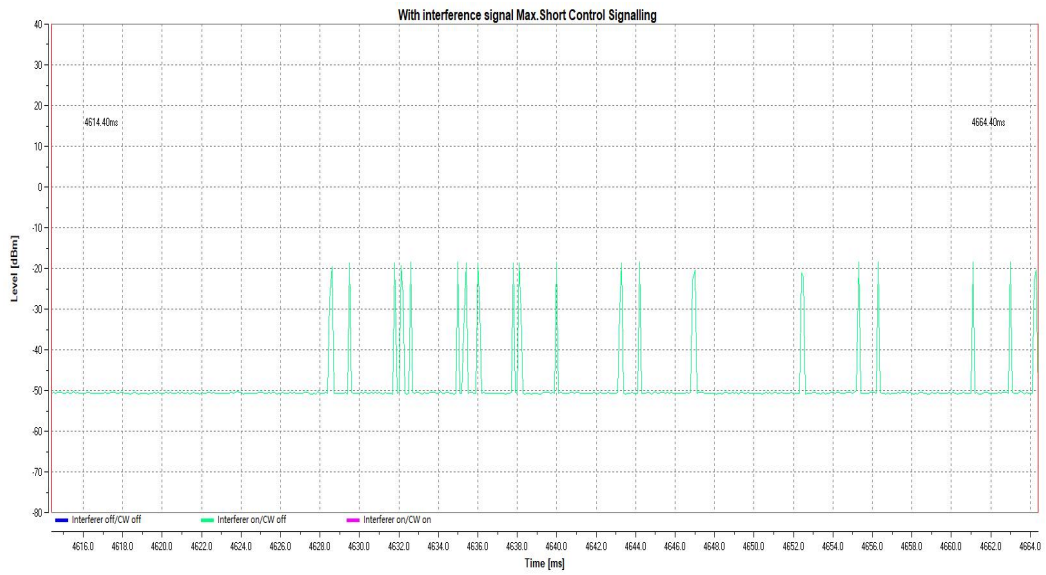
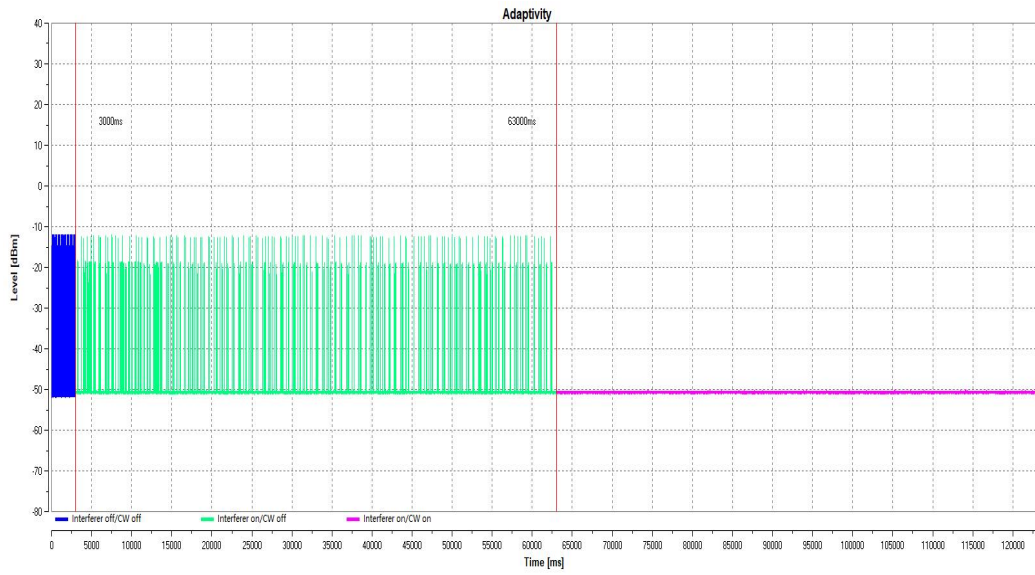


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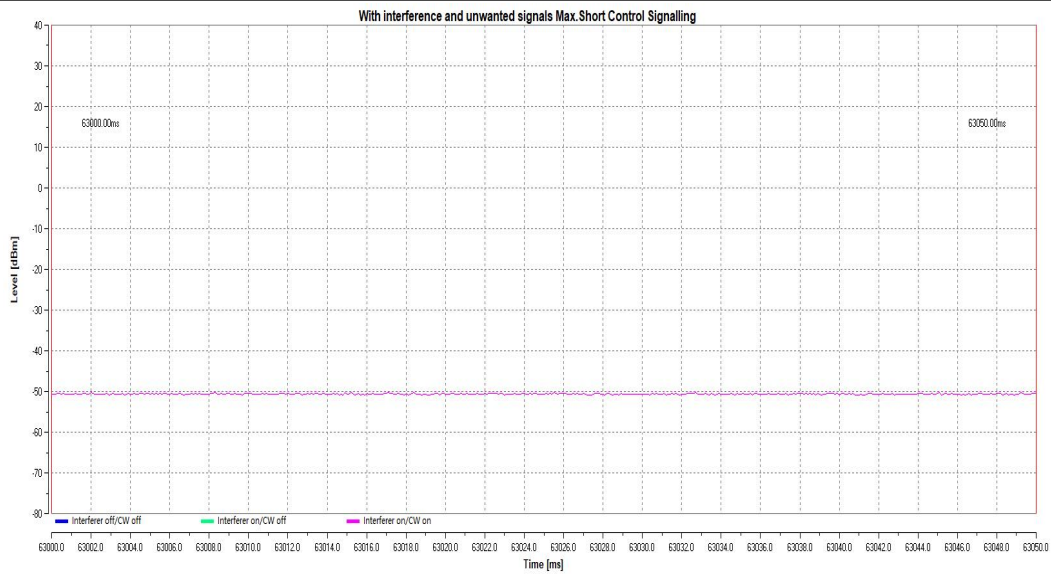
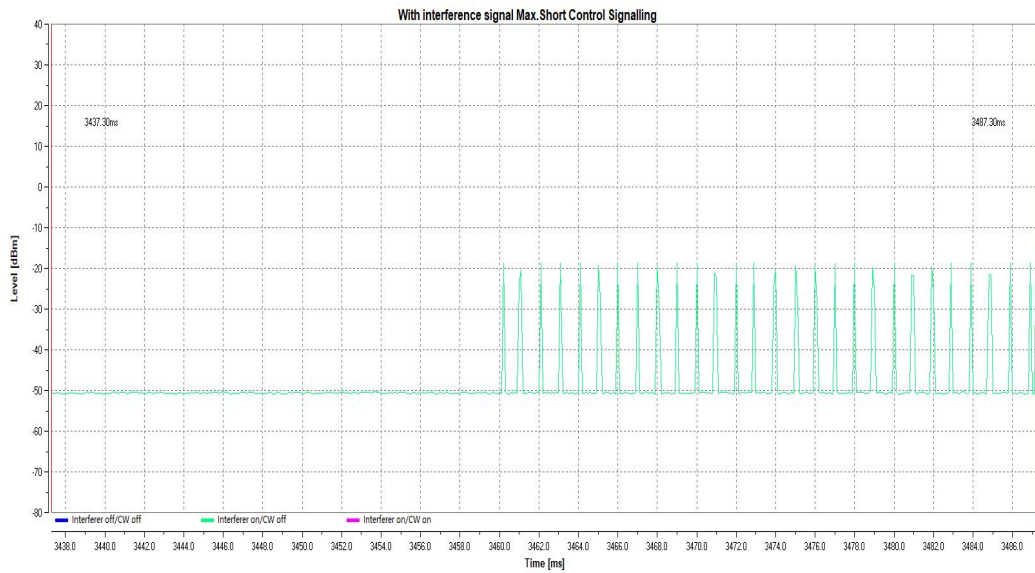
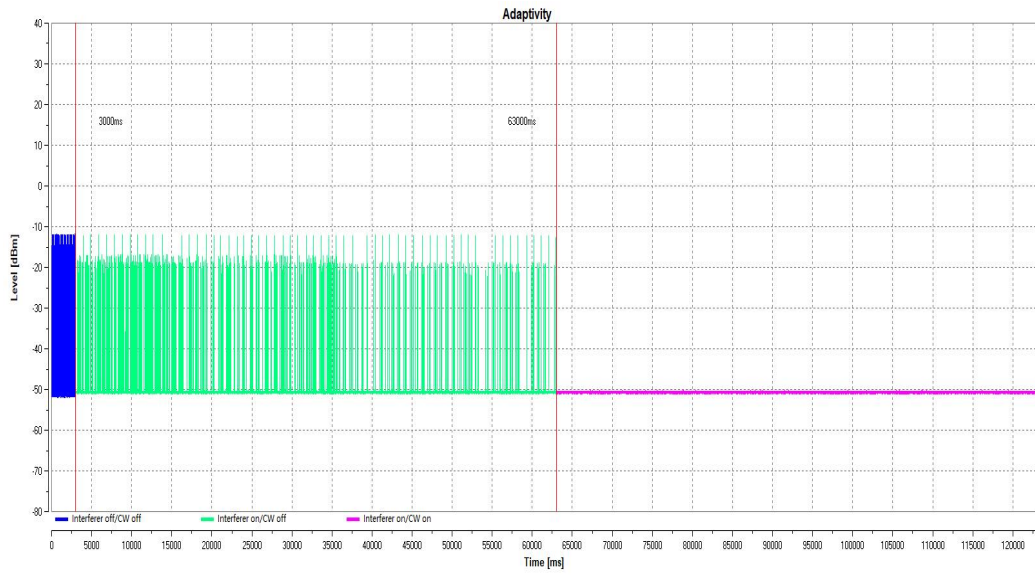




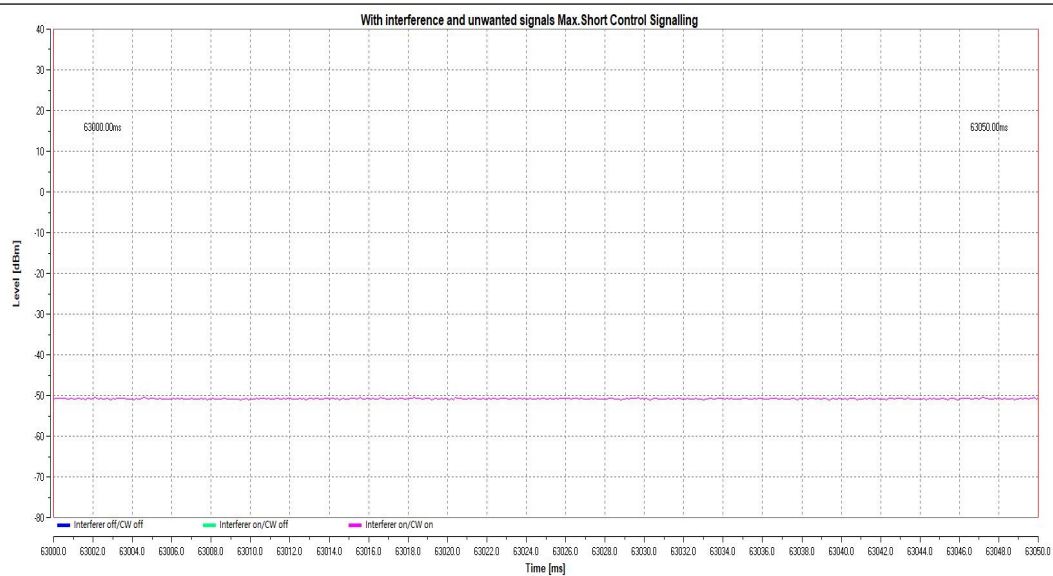
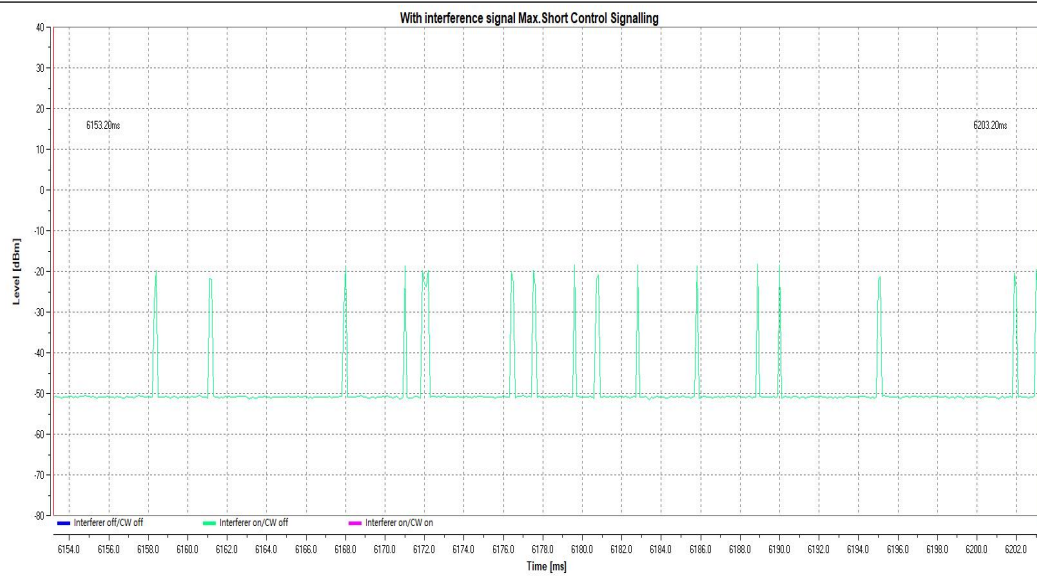
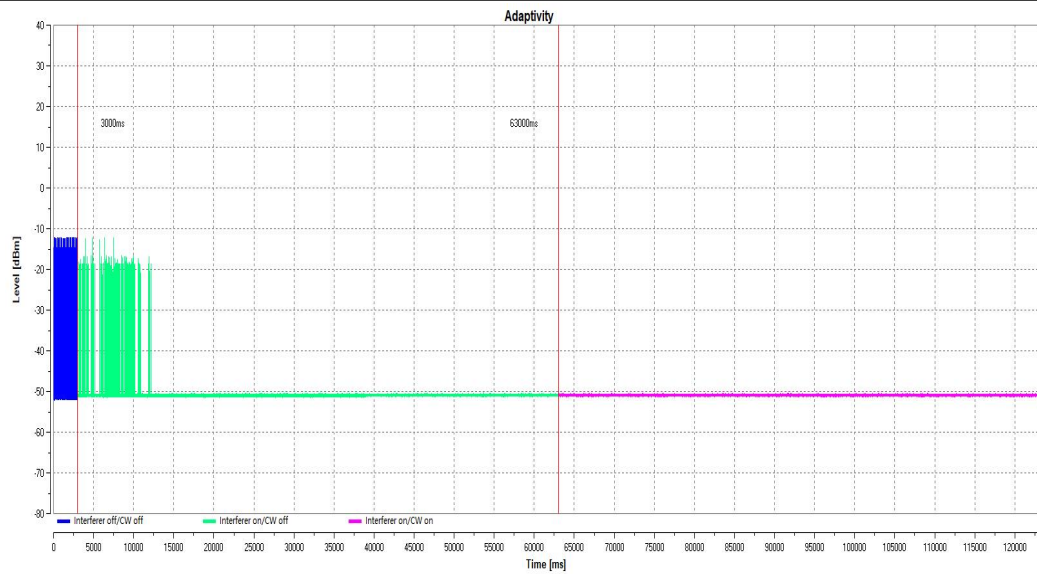
11G-CDD_Ant1_2472



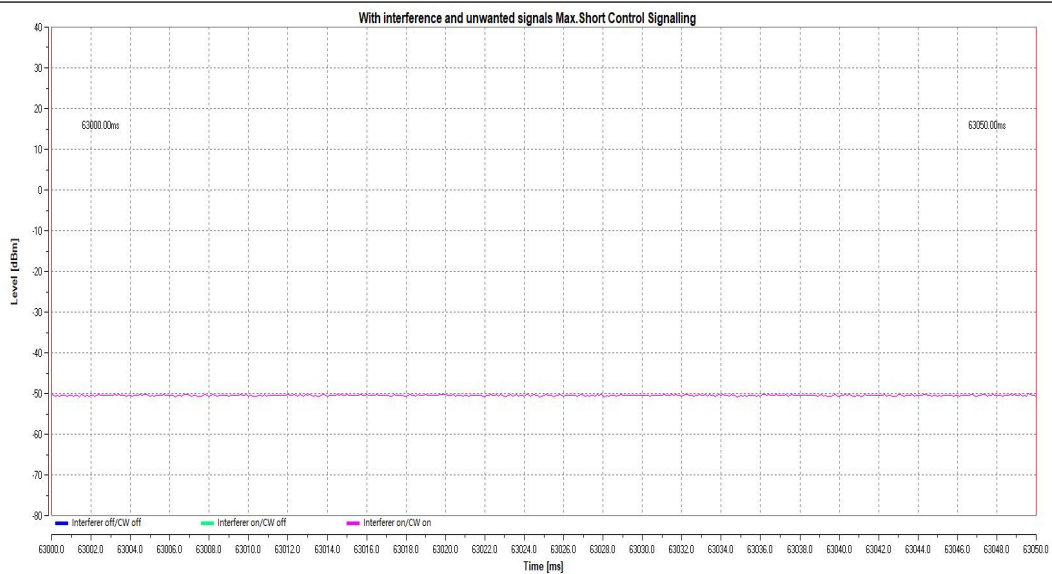
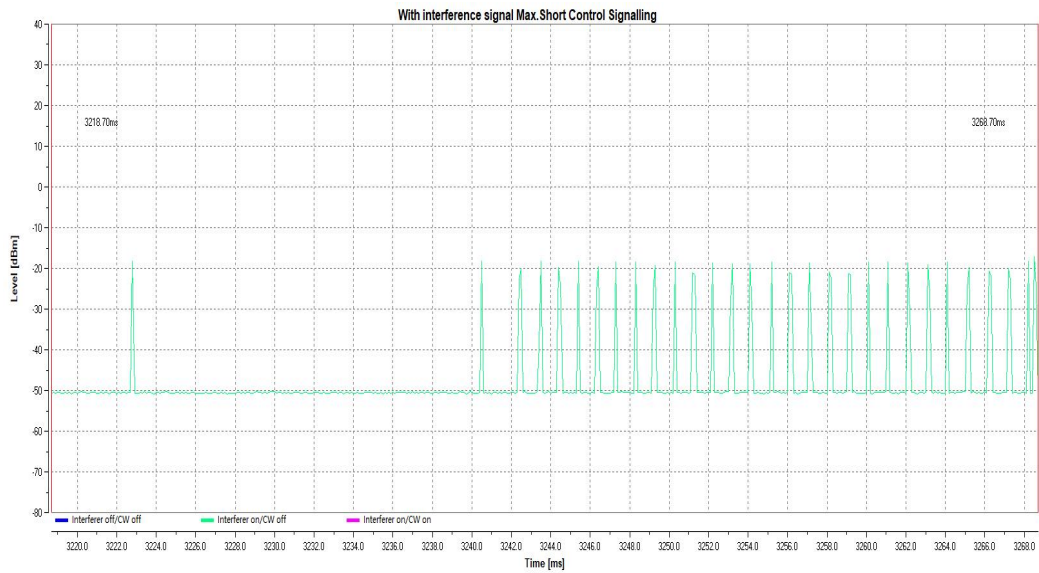
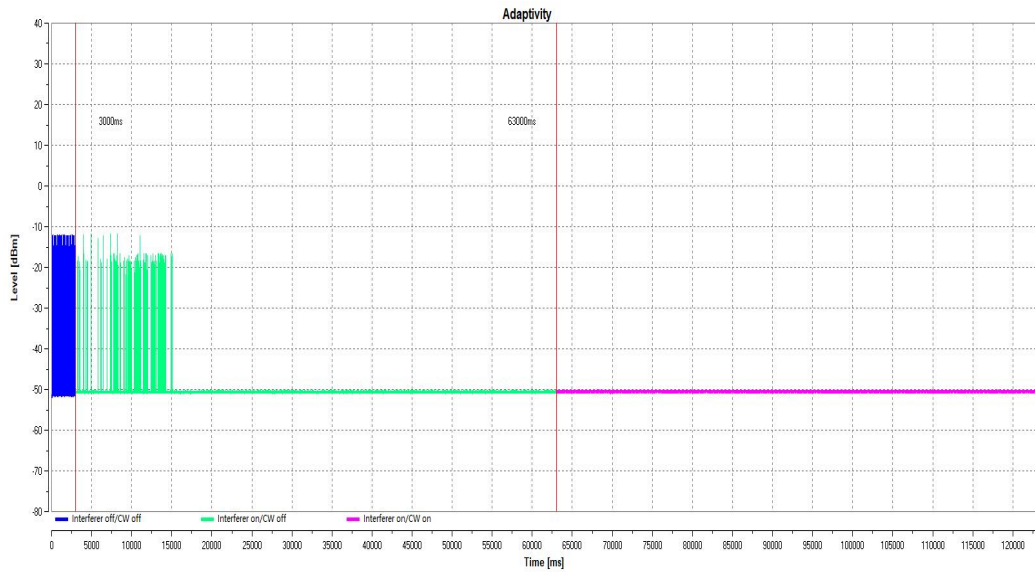
11N20MIMO_Ant1_2412



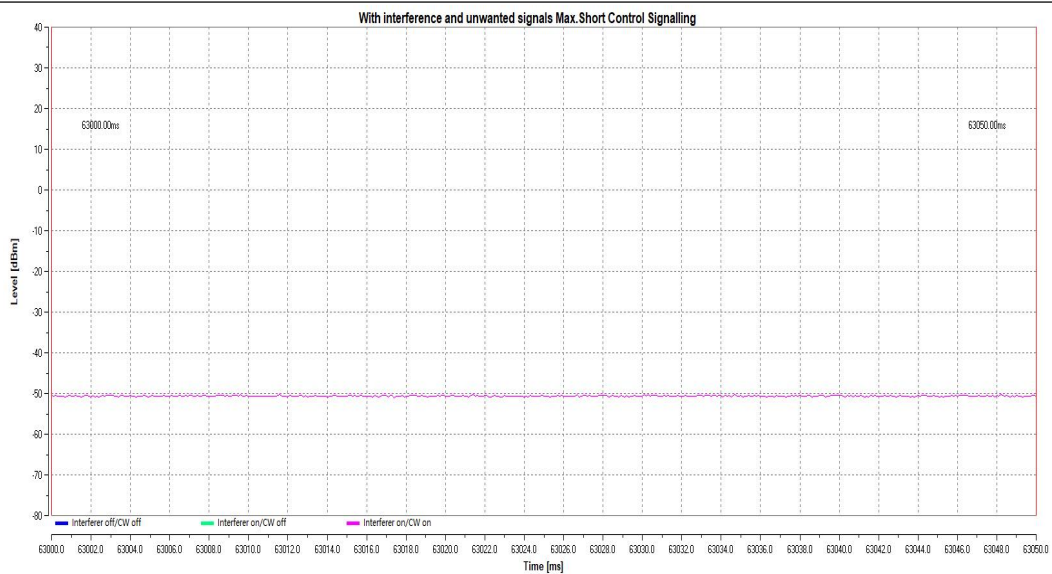
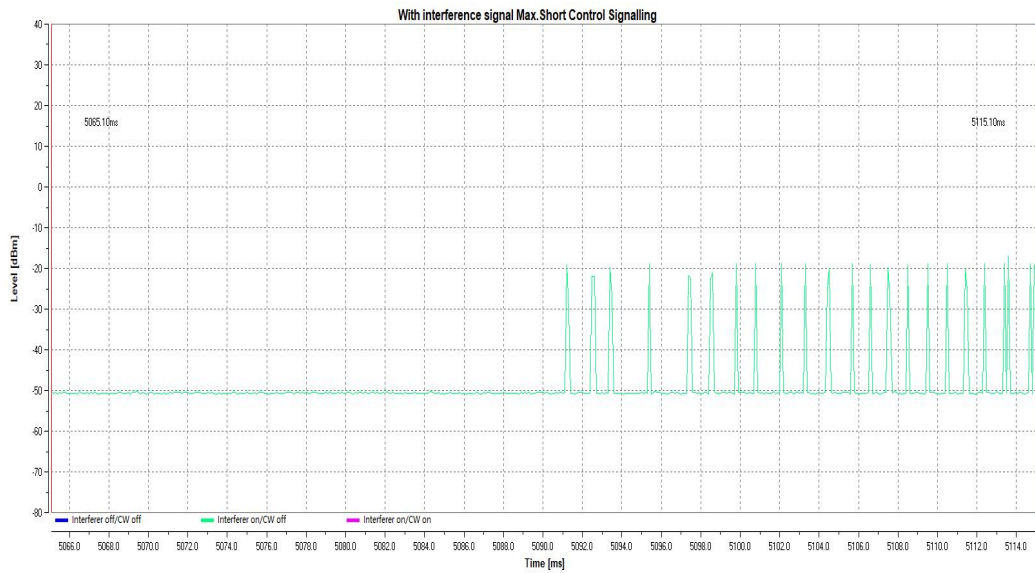
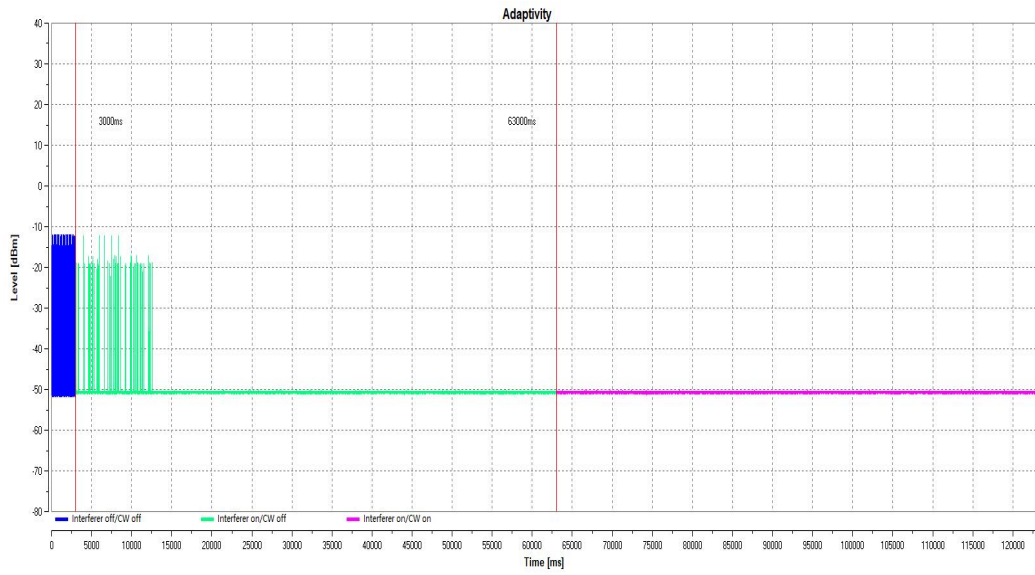
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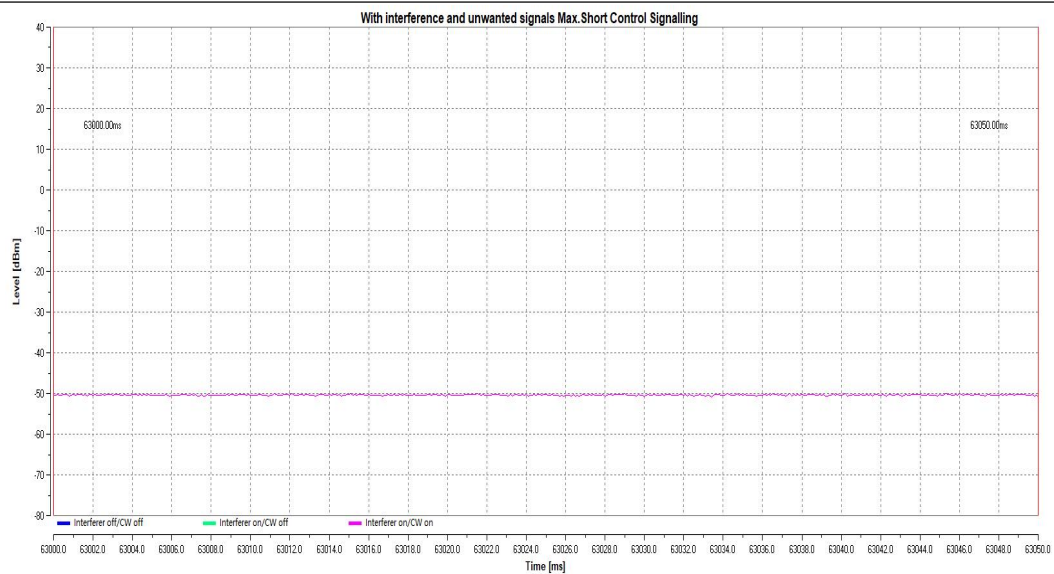
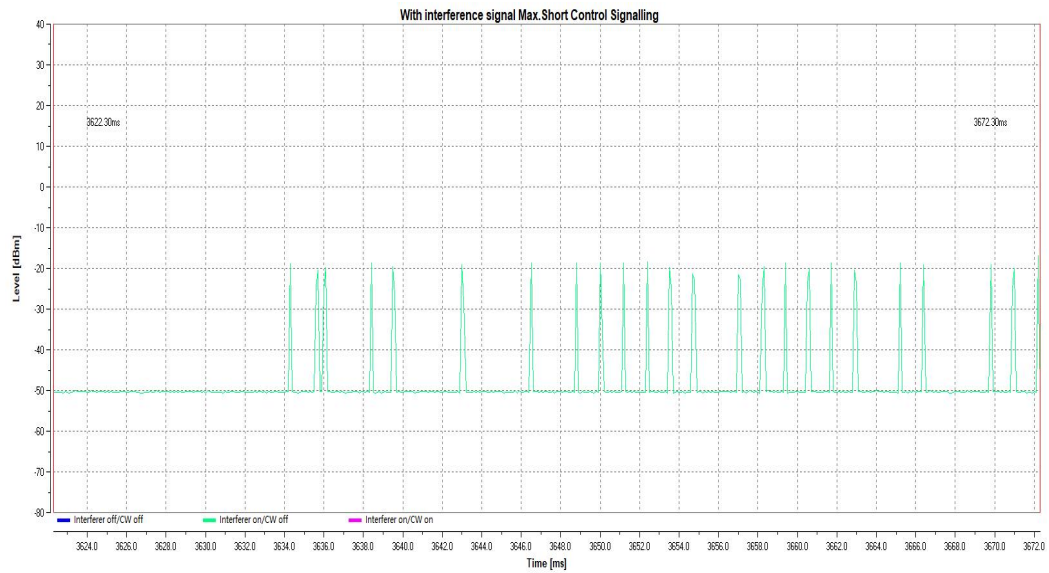
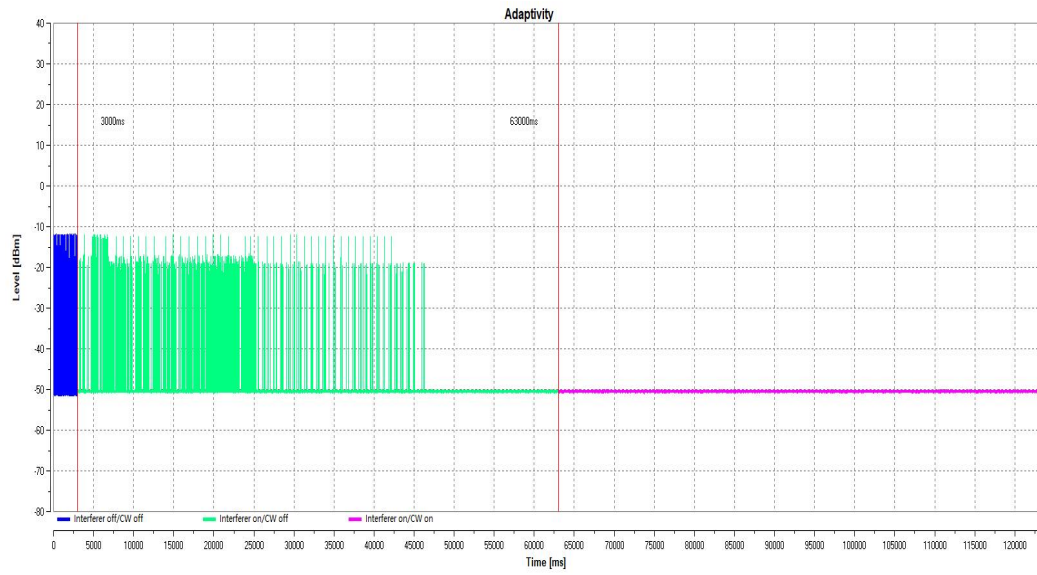
11N40MIMO_Ant1_2422



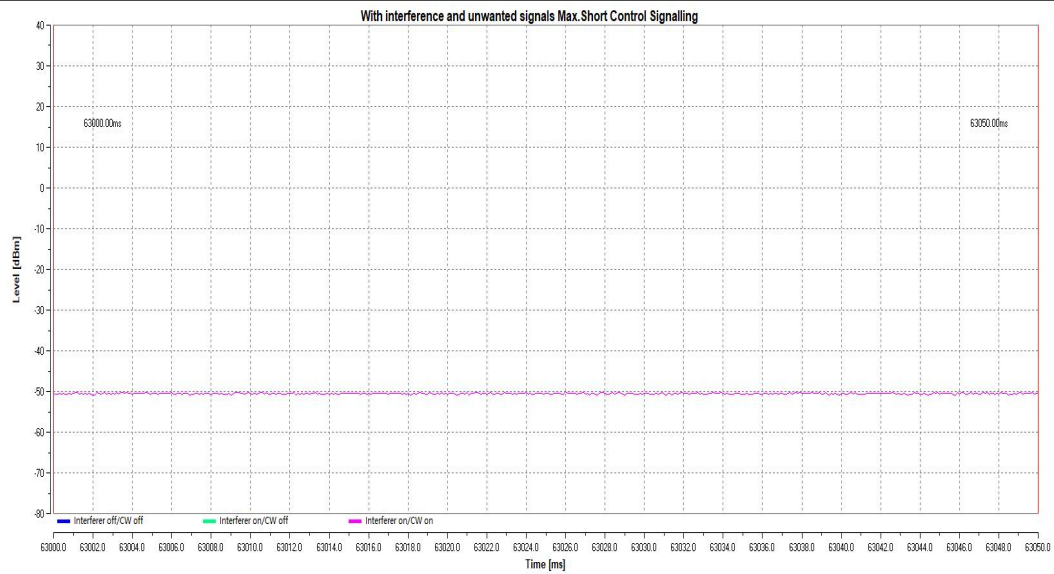
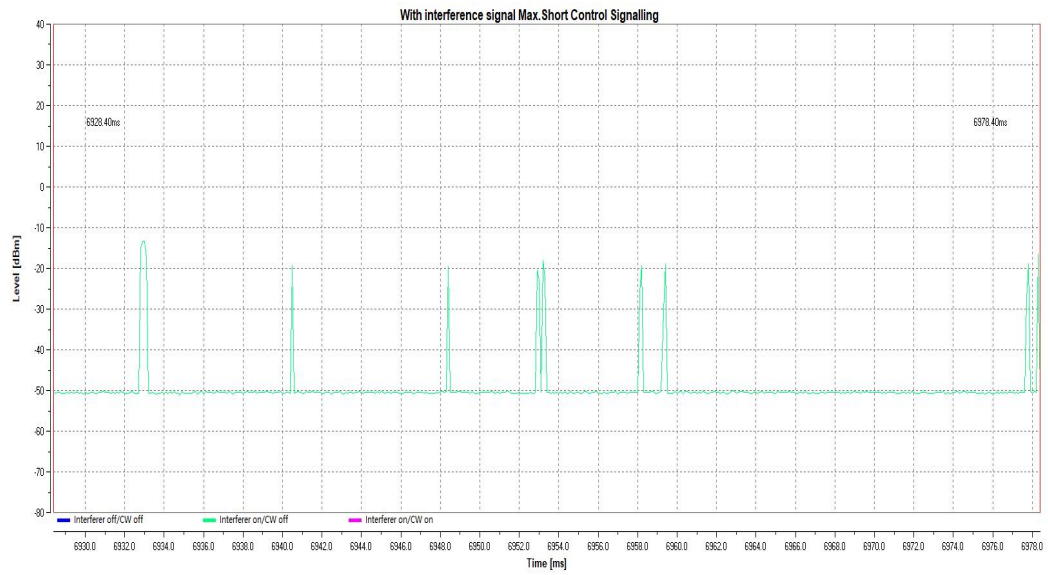
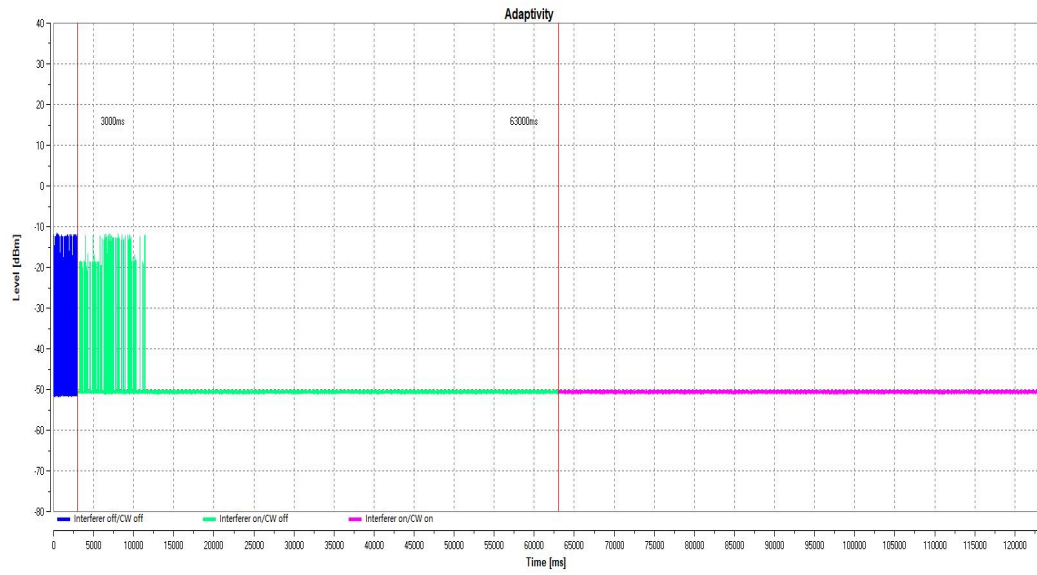
11N40MIMO_Ant1_2462



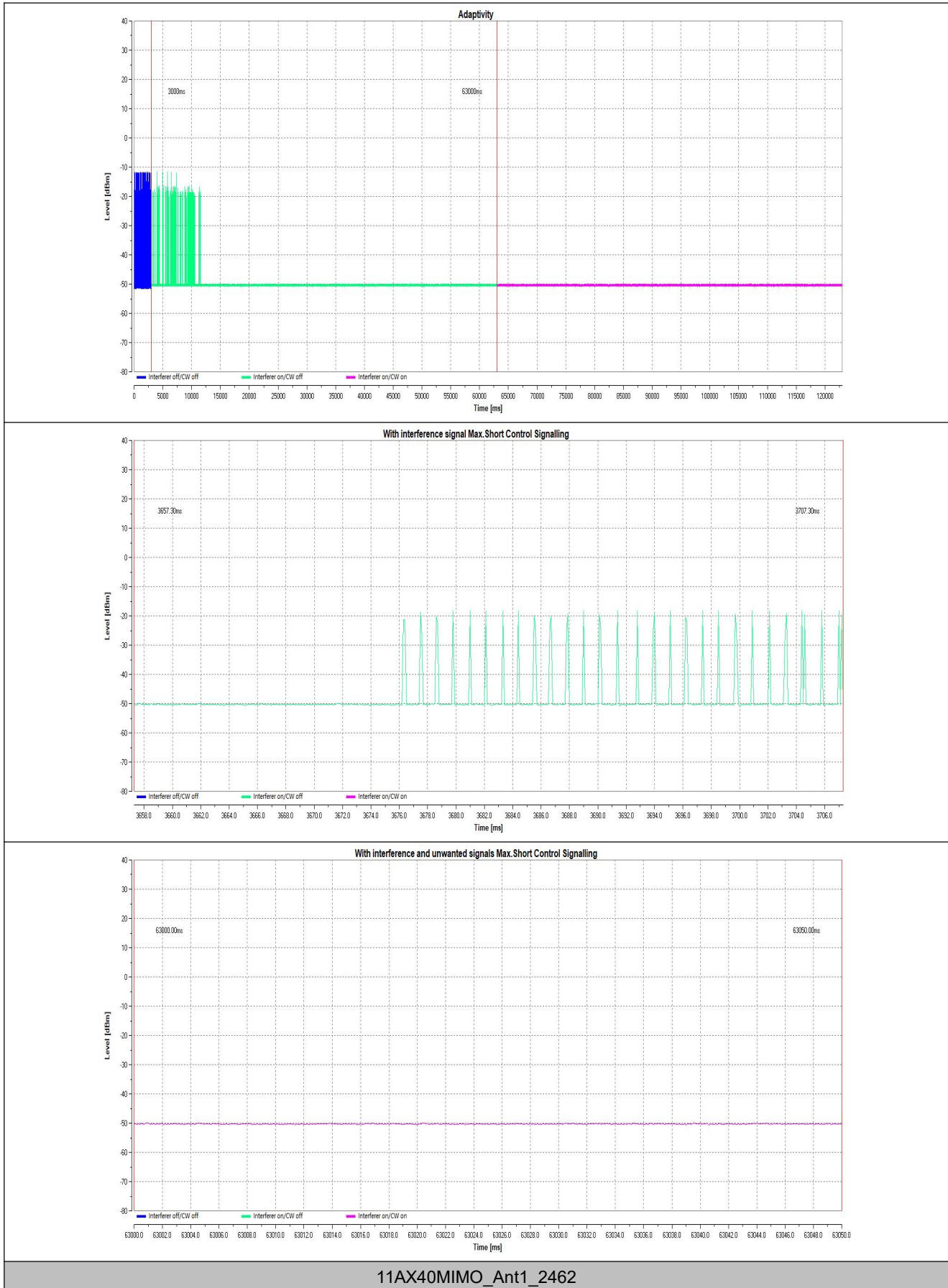
11AX20MIMO_Ant1_2412

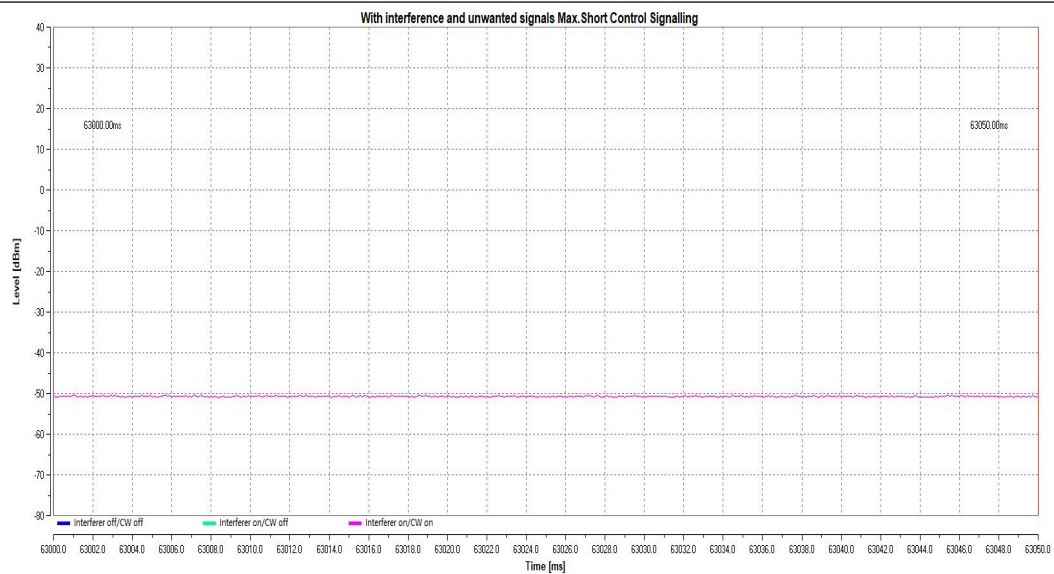
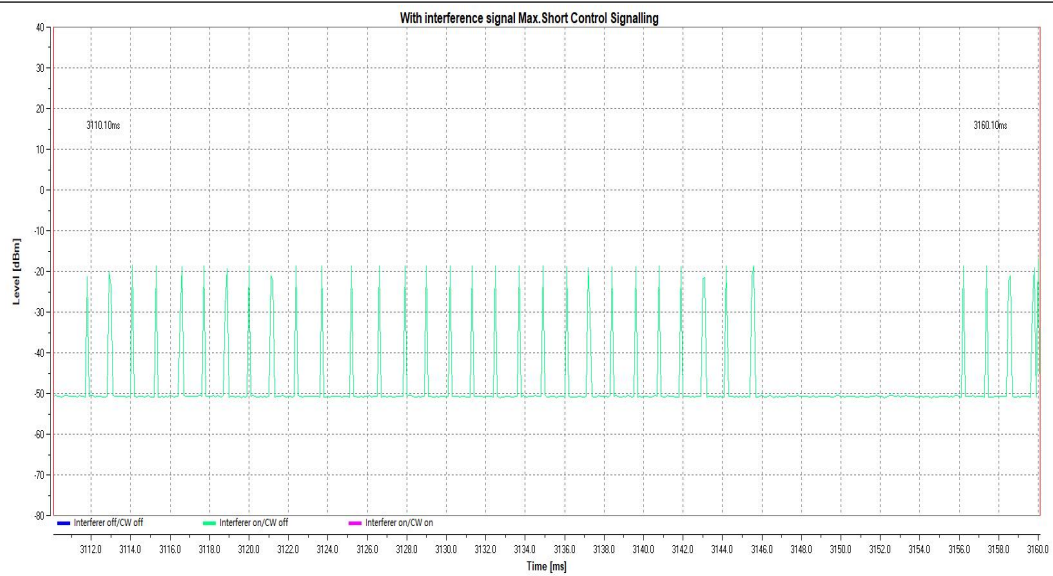
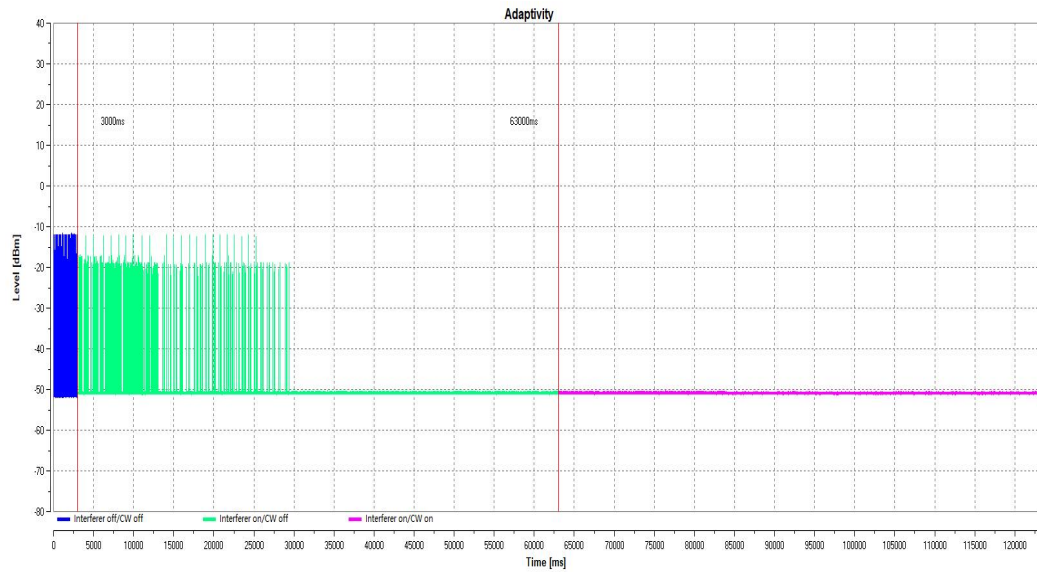


11AX20MIMO_Ant1_2472

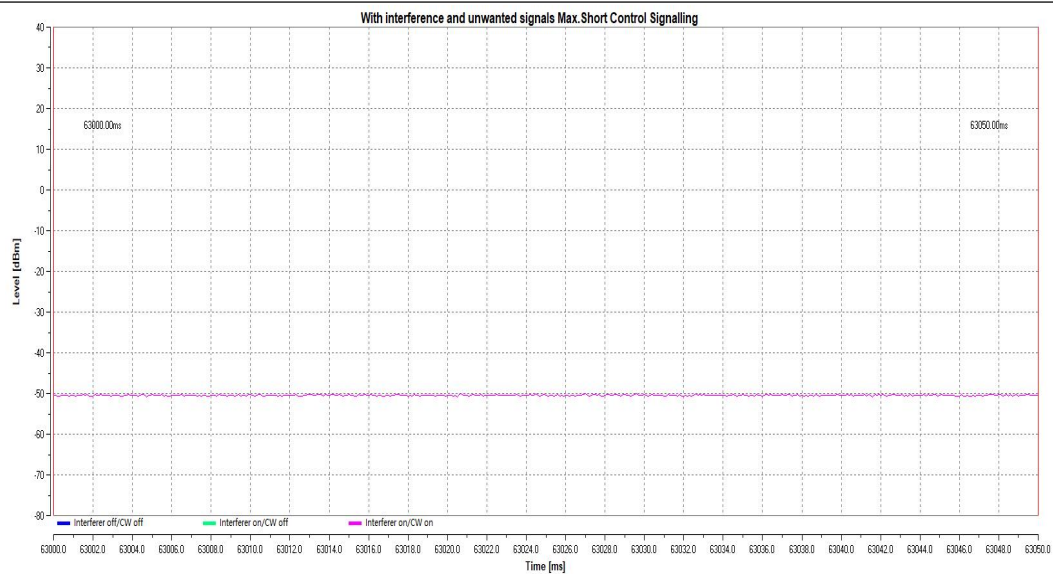
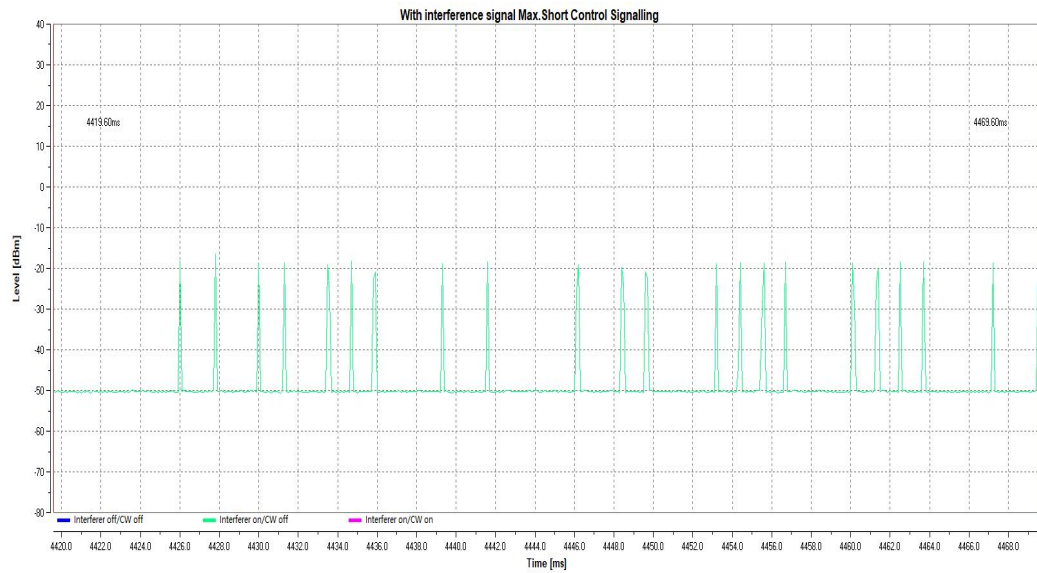
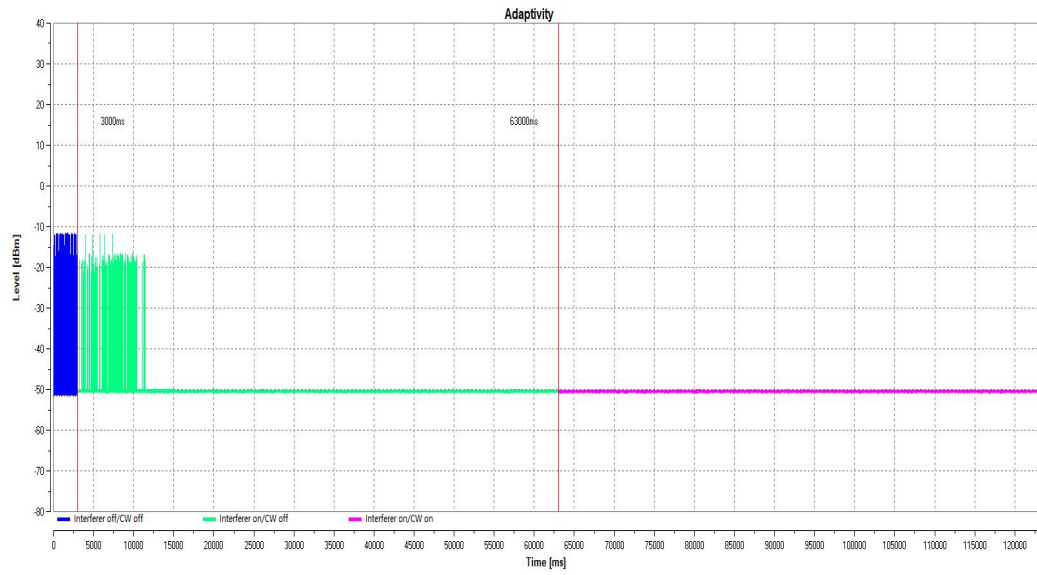


11AX40MIMO_Ant1_2422

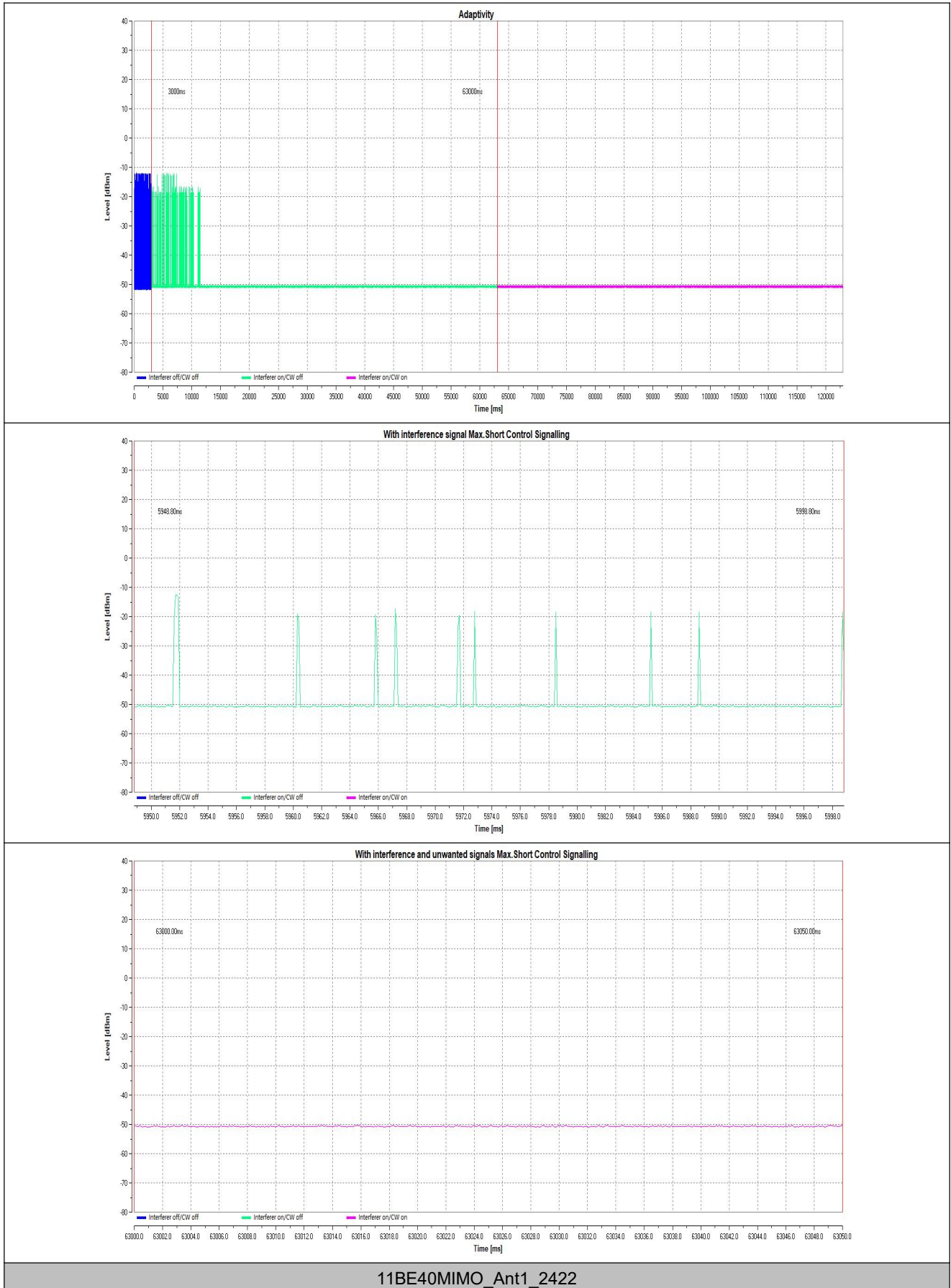


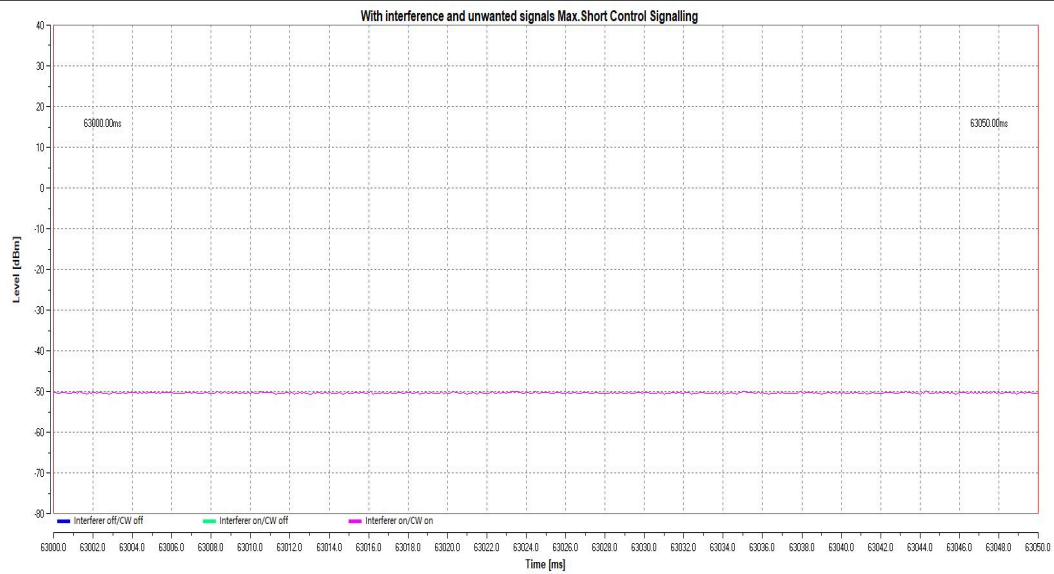
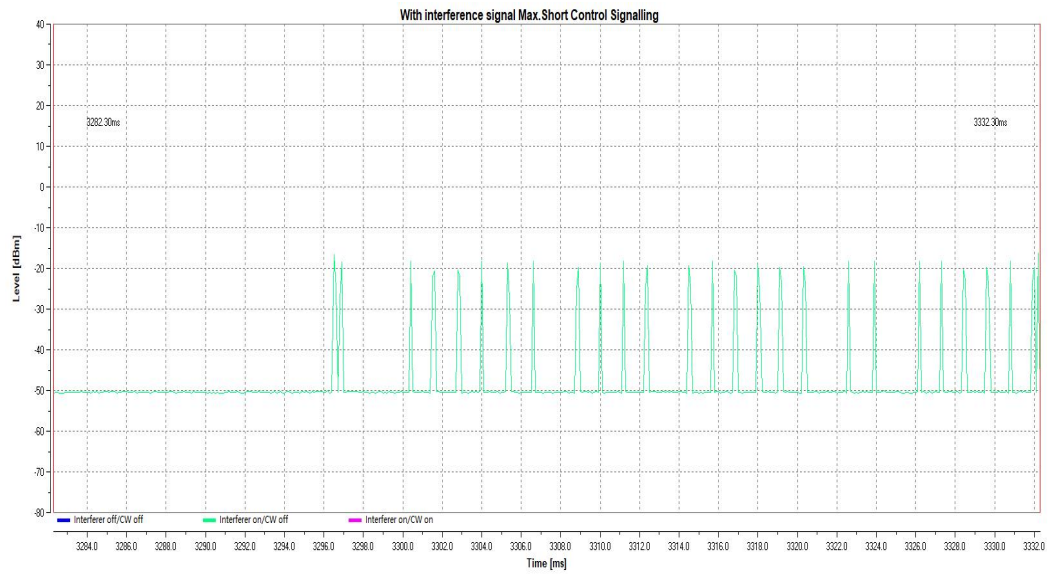
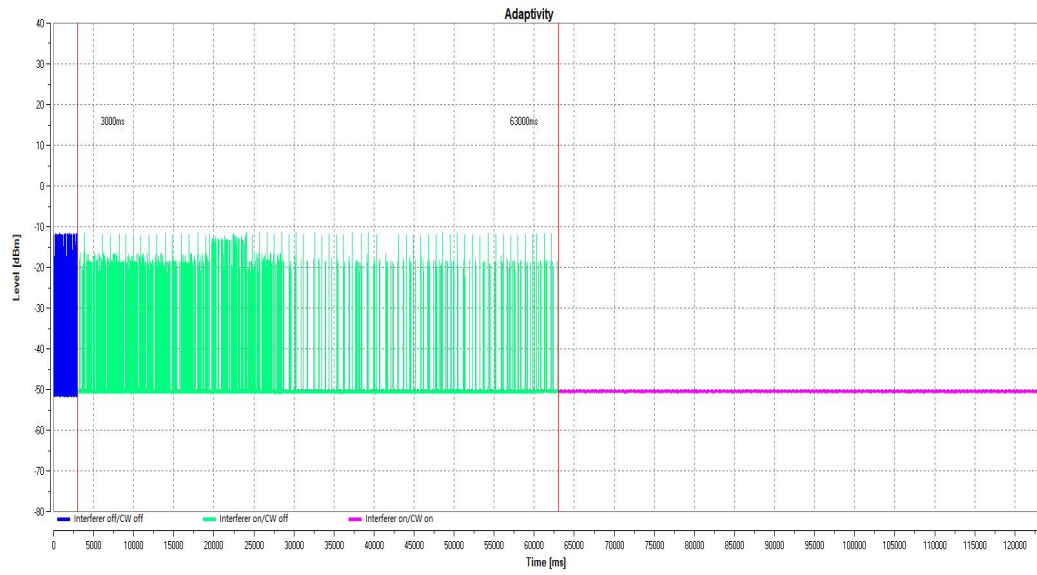


11BE20MIMO_Ant1_2412

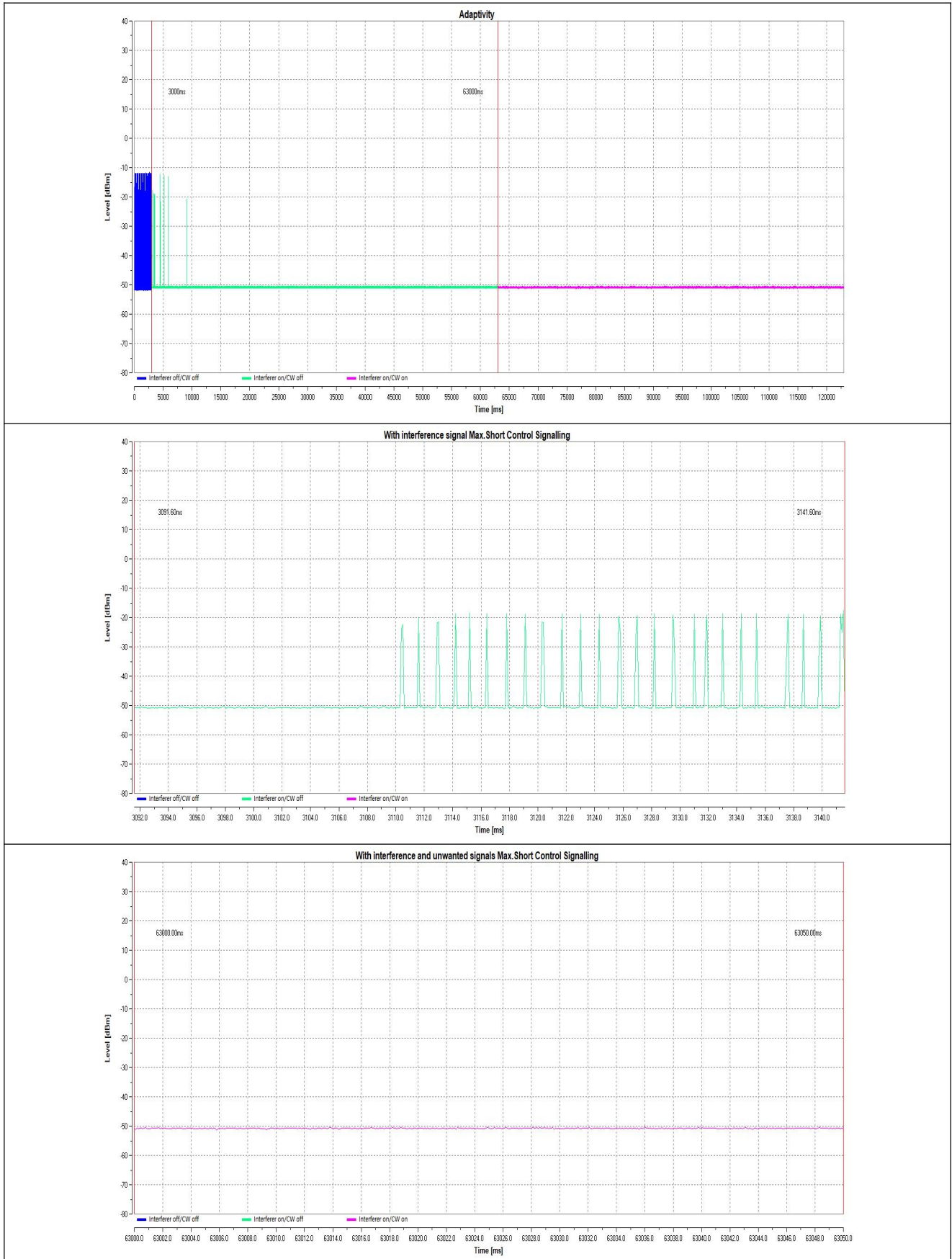


11BE20MIMO_Ant1_2472





11BE40MIMO_Ant1_2462



3.4 Occupied Channel Bandwidth (Refer to clause 4.3.2.7)

3.4.1 Limit

Occupied Channel Bandwidth Limit
Occupied Channel Bandwidth fall completely within 2400MHz~2483.5 MHz.

3.4.2 Test Peripherals

Support Equipment				
No.	Equipment	Brand Name	Model Name	Remarks
1	Record PC	Lenovo	M4000q	N/A

3.4.3 Test Procedure

Test Method	
☒ Conducted Measurement	☐ Radiated Measurement
Test Channels	
☐ Lowest, Middle and Highest Channel	☒ Lowest and Highest Channel
Environmental conditions	
☒ Normal	☐ Normal and Extreme
Note: ☒ :Test ☐ :No Test	

a) The EUT shall be connected to the spectrum analyser, and the spectrum analyser is set as follow:

Centre Frequency	The centre frequency of the channel under test
RBW	≥1% of the span
VBW	3xRBW
Frequency span	2x Nominal Channel Bandwidth
Detector Mode	RMS
Trace Mode	Max Hold
Sweep Time	1s

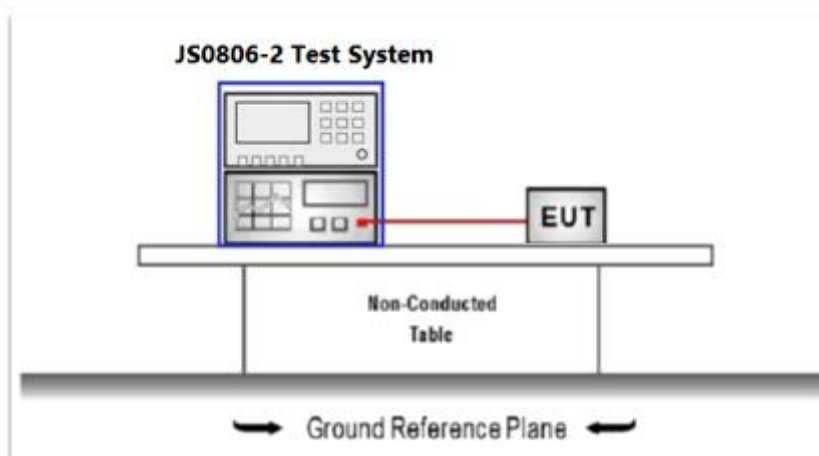
b) Wait for the trace to stabilize then find the peak value of the trace and place the analyser marker on this peak.

c) Use the 99 % bandwidth function of the spectrum analyser to measure the Occupied Channel Bandwidth of the EUT. This value shall be recorded.

d) Make sure that the power envelope is sufficiently above the noise floor of the analyser to avoid the noise signals left and right from the power envelope being taken into account by this measurement.

e) The measurement described in step a to step d above shall be repeated in case of simultaneous transmissions in non-adjacent channels.

3.4.4 Test Configuration



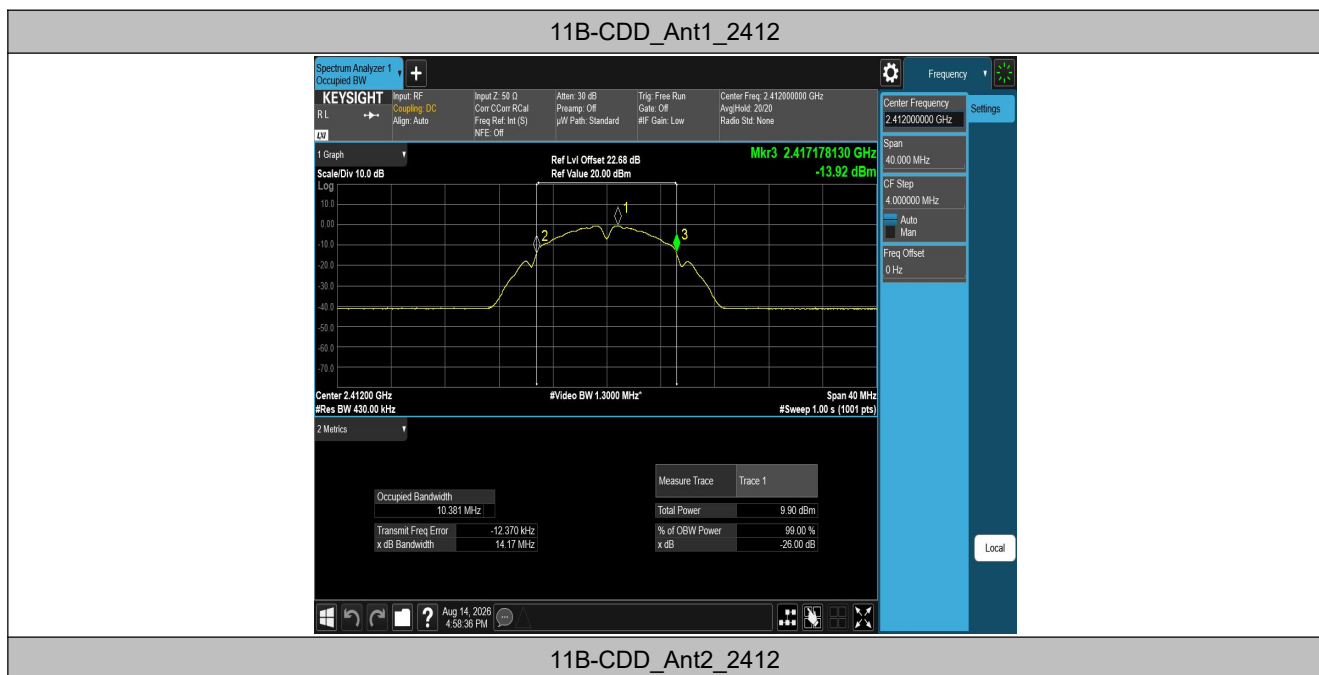
3.4.5 Test Result of Occupied Channel Bandwidth

3.4.5.1 Test Result

TestMode	Antenna	Freq(MHz)	OCB[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B-CDD	Ant1	2412	10.381	2406.7971	2417.1781	2400 to 2483.5	PASS
	Ant2	2412	10.395	2406.8096	2417.2046	2400 to 2483.5	PASS
	Ant1	2442	10.382	2436.7871	2447.1691	2400 to 2483.5	PASS
	Ant2	2442	10.360	2436.8097	2447.1697	2400 to 2483.5	PASS
	Ant1	2472	10.381	2466.7852	2477.1662	2400 to 2483.5	PASS
	Ant2	2472	10.355	2466.8102	2477.1652	2400 to 2483.5	PASS
11G-CDD	Ant1	2412	16.647	2403.6634	2420.3104	2400 to 2483.5	PASS
	Ant2	2412	16.670	2403.6640	2420.3340	2400 to 2483.5	PASS
	Ant1	2442	16.662	2433.6633	2450.3253	2400 to 2483.5	PASS
	Ant2	2442	16.652	2433.6621	2450.3141	2400 to 2483.5	PASS
	Ant1	2472	16.651	2463.6638	2480.3148	2400 to 2483.5	PASS
	Ant2	2472	16.641	2463.6667	2480.3077	2400 to 2483.5	PASS
11N20MIMO	Ant1	2412	17.870	2403.0480	2420.9180	2400 to 2483.5	PASS
	Ant2	2412	17.837	2403.0787	2420.9157	2400 to 2483.5	PASS
	Ant1	2442	17.875	2433.0410	2450.9160	2400 to 2483.5	PASS
	Ant2	2442	17.840	2433.0709	2450.9109	2400 to 2483.5	PASS
	Ant1	2472	17.860	2463.0555	2480.9155	2400 to 2483.5	PASS
	Ant2	2472	17.867	2463.0527	2480.9197	2400 to 2483.5	PASS
11N40MIMO	Ant1	2422	36.396	2403.7404	2440.1364	2400 to 2483.5	PASS
	Ant2	2422	36.402	2403.7962	2440.1982	2400 to 2483.5	PASS
	Ant1	2442	36.433	2423.7618	2460.1948	2400 to 2483.5	PASS
	Ant2	2442	36.421	2423.7712	2460.1922	2400 to 2483.5	PASS
	Ant1	2462	36.422	2443.7735	2480.1955	2400 to 2483.5	PASS

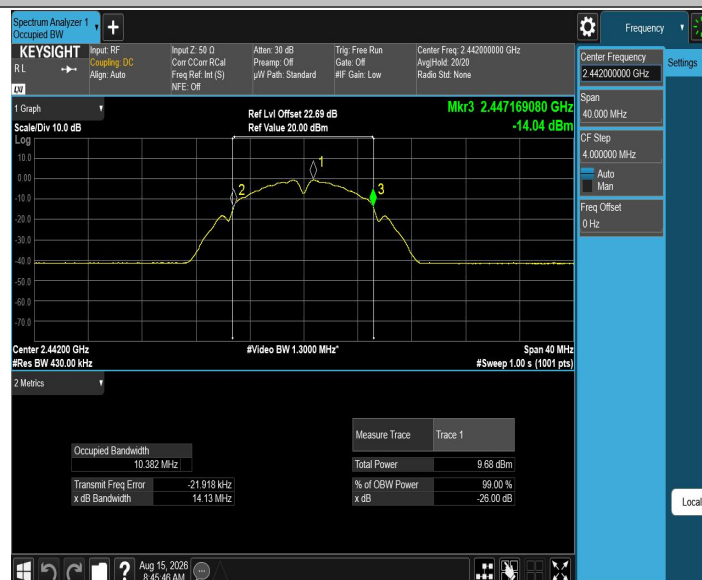
	Ant2	2462	36.419	2443.7727	2480.1917	2400 to 2483.5	PASS
11AX20MIMO	Ant1	2412	17.864	2403.0606	2420.9246	2400 to 2483.5	PASS
	Ant2	2412	17.846	2403.0752	2420.9212	2400 to 2483.5	PASS
	Ant1	2442	17.871	2433.0499	2450.9209	2400 to 2483.5	PASS
	Ant2	2442	17.848	2433.0673	2450.9153	2400 to 2483.5	PASS
	Ant1	2472	17.859	2463.0592	2480.9182	2400 to 2483.5	PASS
	Ant2	2472	17.846	2463.0649	2480.9109	2400 to 2483.5	PASS
11AX40MIMO	Ant1	2422	36.418	2403.7323	2440.1503	2400 to 2483.5	PASS
	Ant2	2422	36.406	2403.8021	2440.2081	2400 to 2483.5	PASS
	Ant1	2442	36.449	2423.7548	2460.2038	2400 to 2483.5	PASS
	Ant2	2442	36.425	2423.7746	2460.1996	2400 to 2483.5	PASS
	Ant1	2462	36.434	2443.7276	2480.1616	2400 to 2483.5	PASS
	Ant2	2462	36.408	2443.7934	2480.2014	2400 to 2483.5	PASS

3.4.5.2 Test Graphs

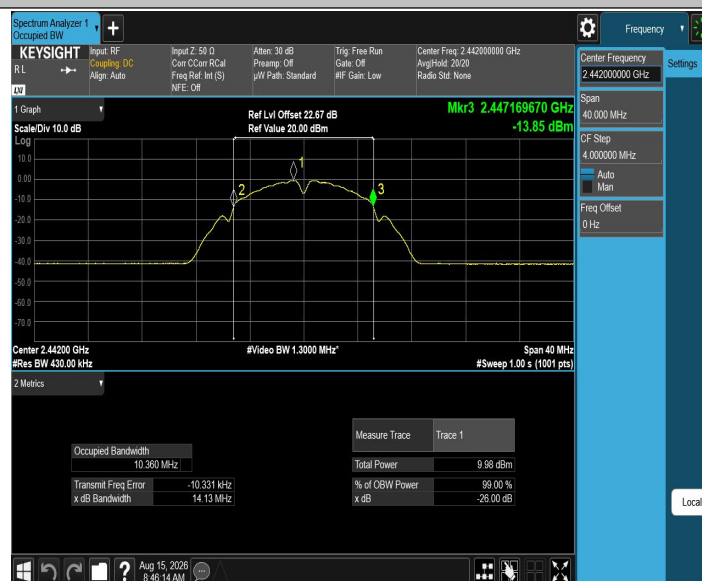




11B-CDD_Ant1_2442

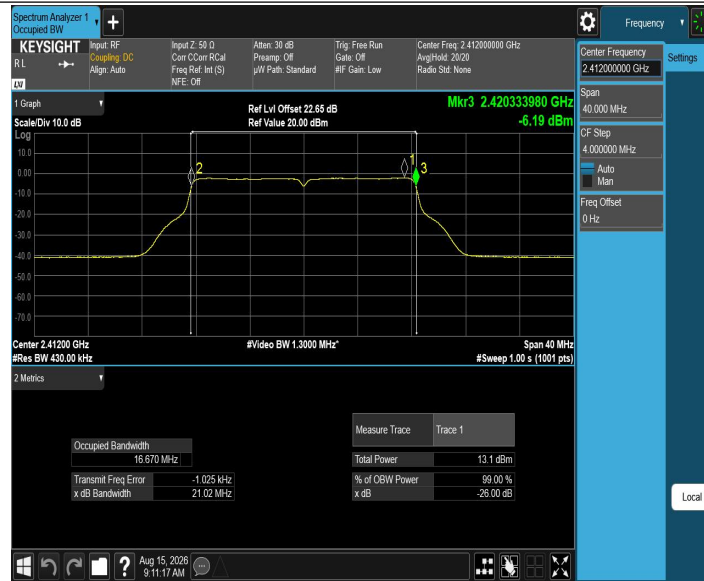


11B-CDD_Ant2_2442



11B-CDD_Ant1_2472





11G-CDD_Ant1_2442



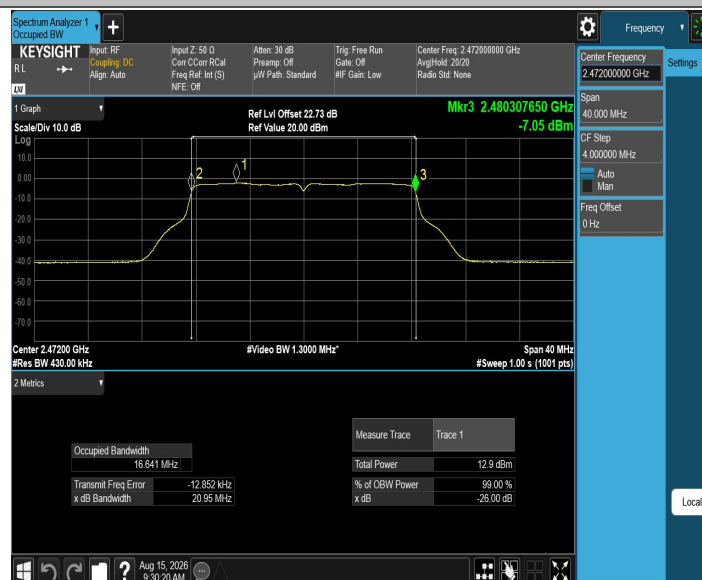
11G-CDD_Ant2_2442



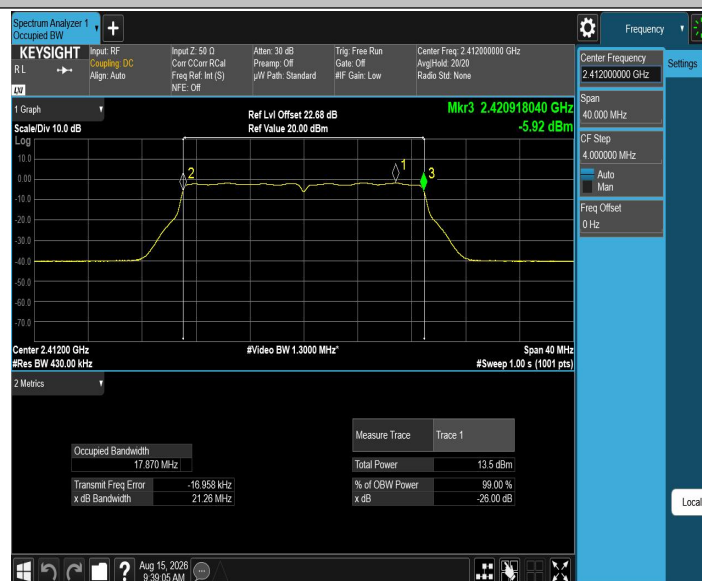
11G-CDD_Ant1_2472



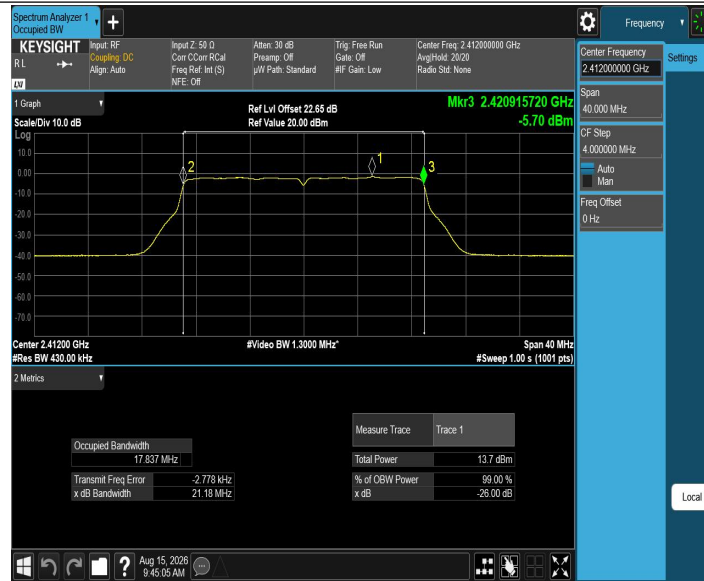
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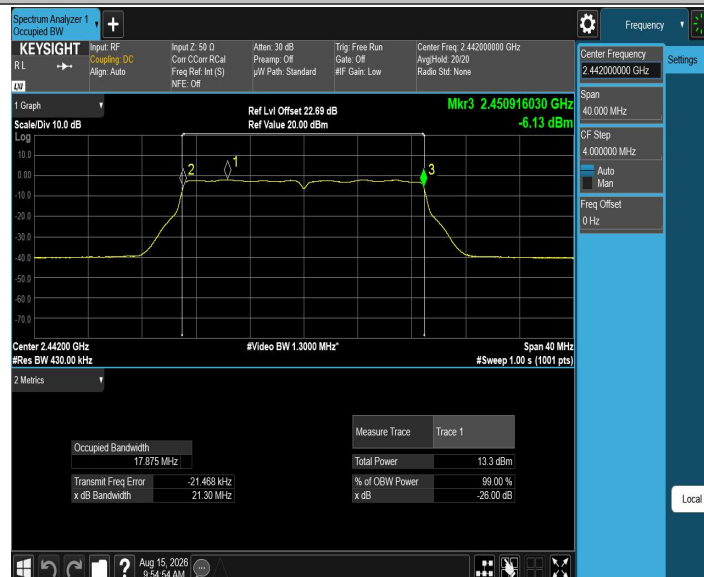
11N20MIMO_Ant1_2412



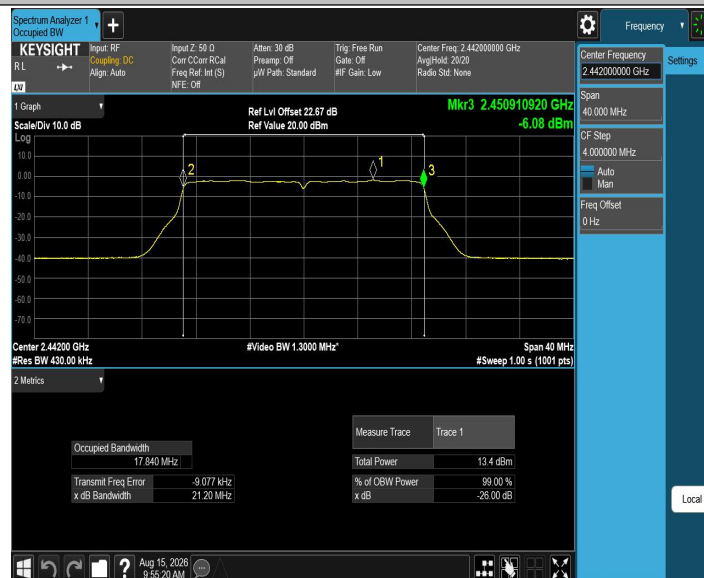
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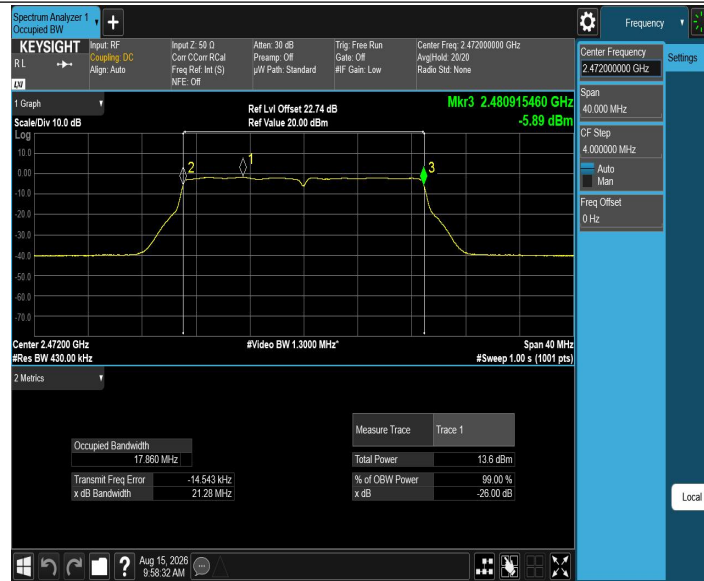
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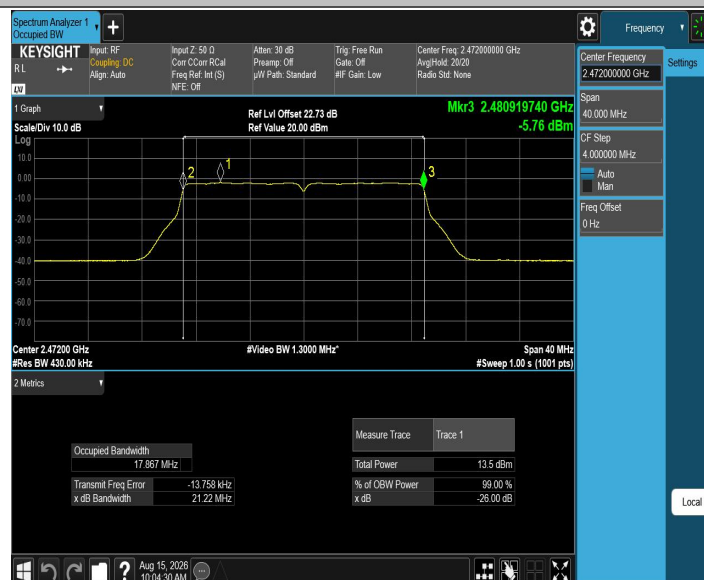
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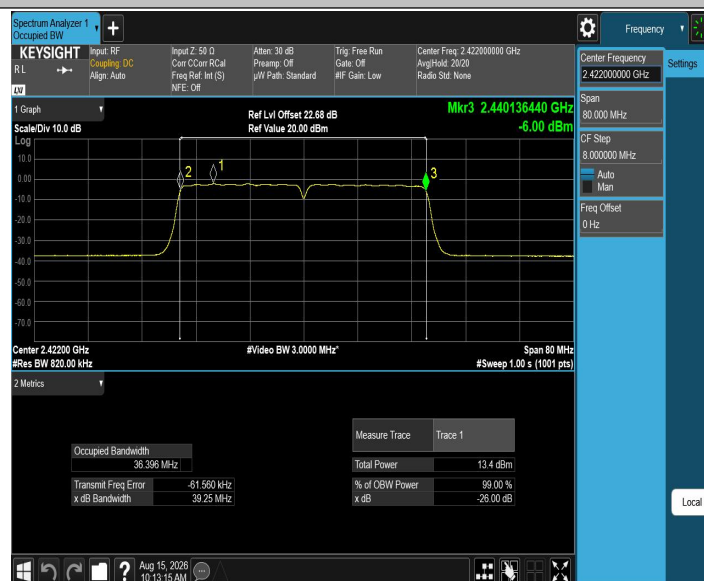
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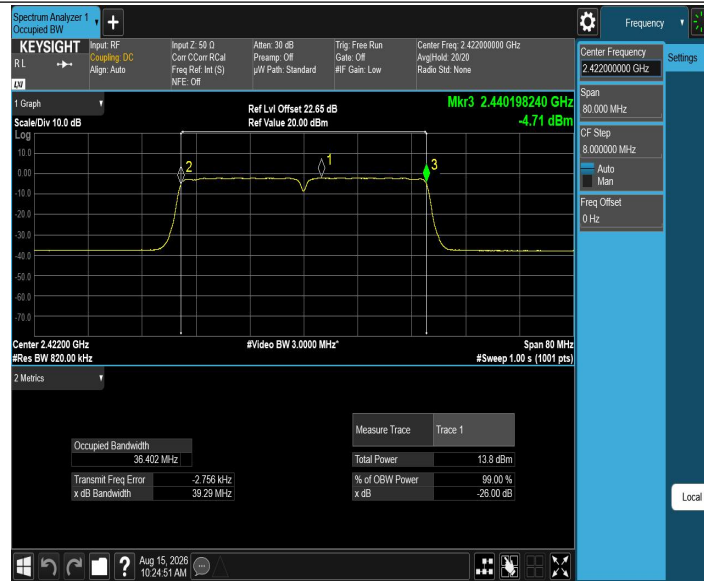
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11N40MIMO_Ant1_2422



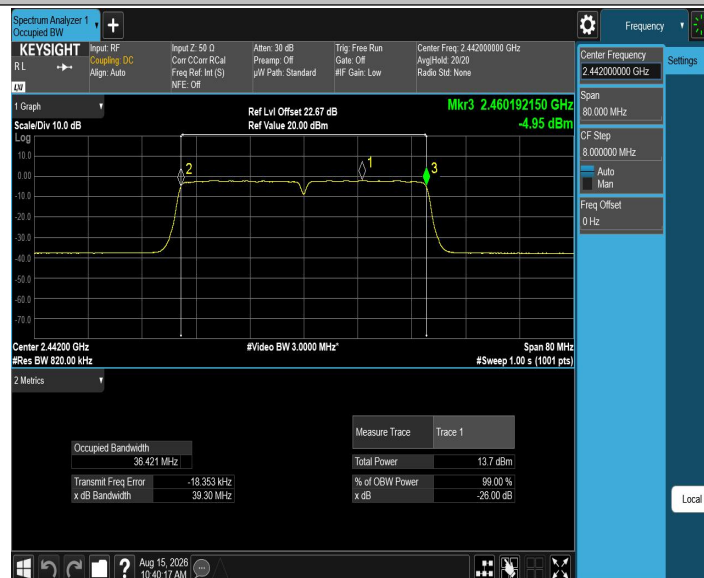
11N40MIMO_Ant2_2422



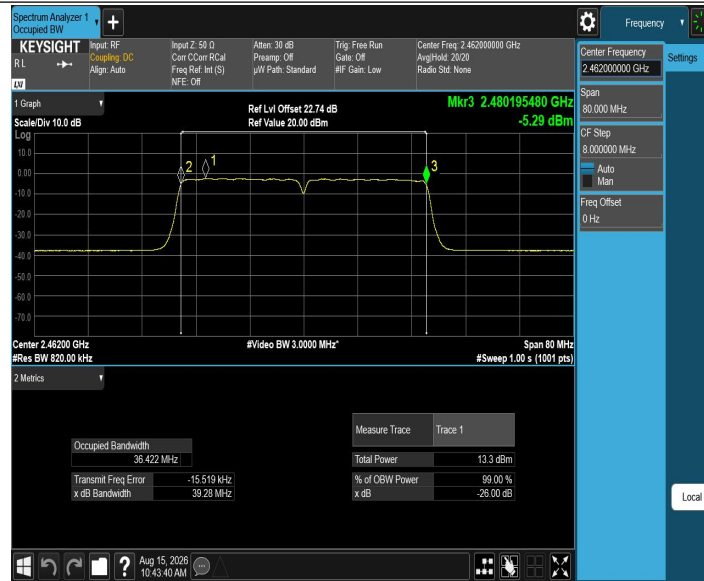
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11N40MIMO_Ant2_2442



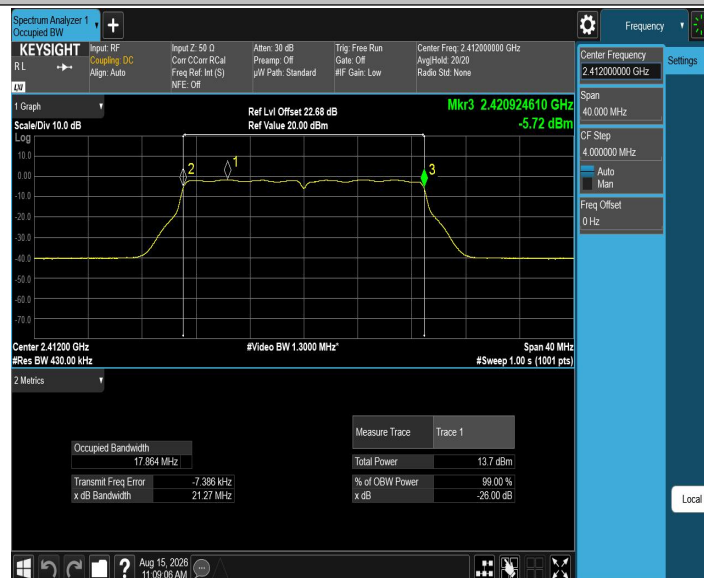
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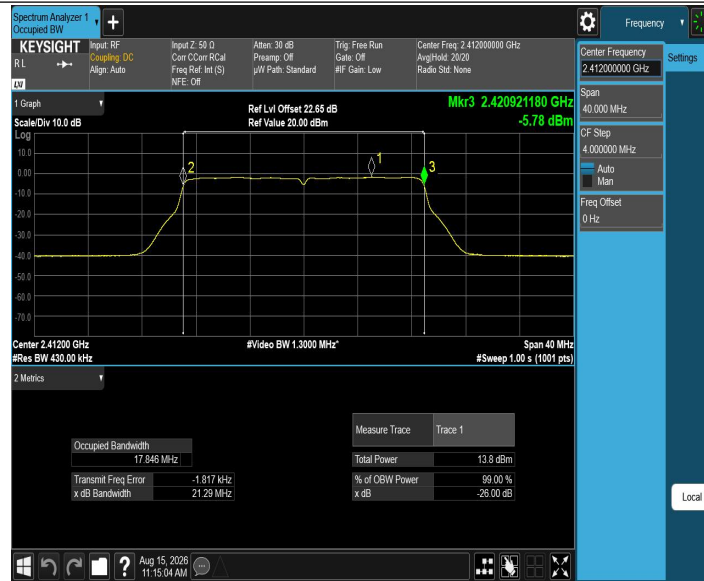
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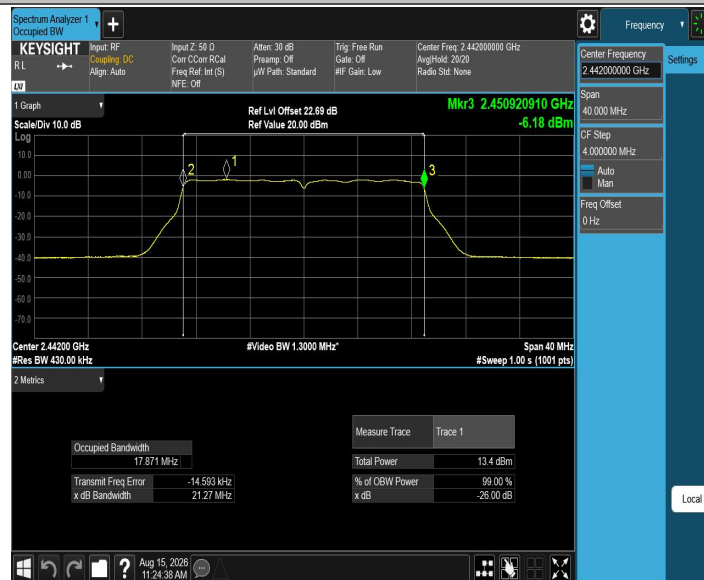
11AX20MIMO_Ant1_2412



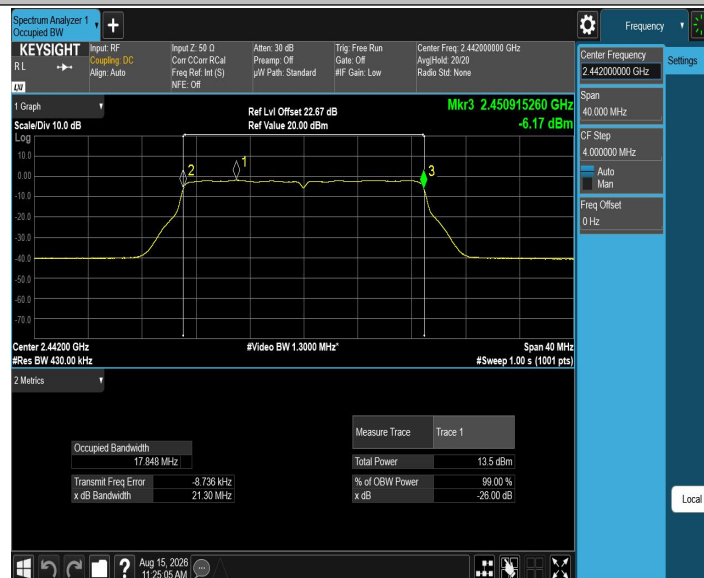
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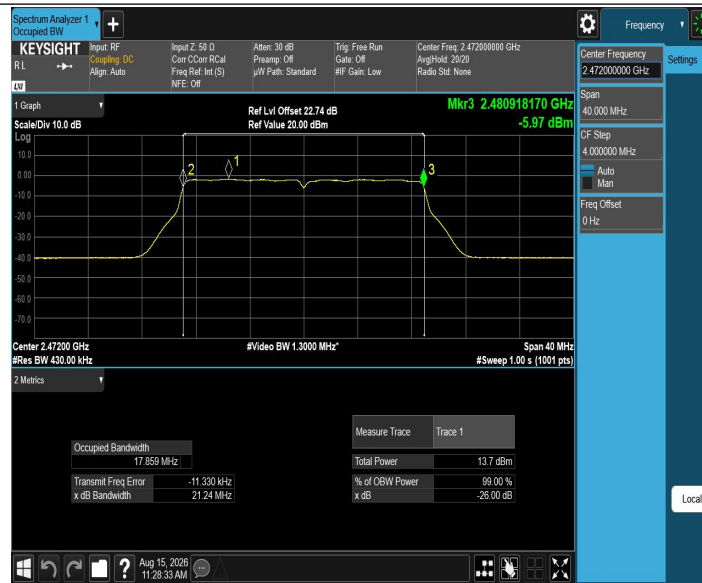
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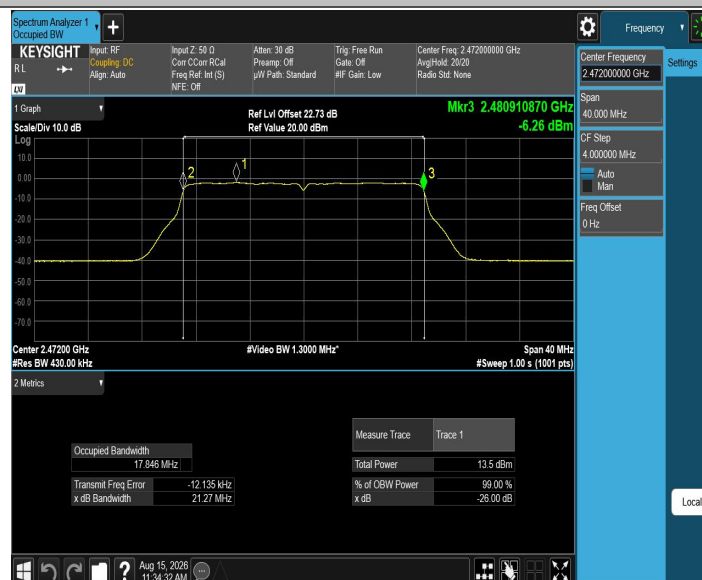
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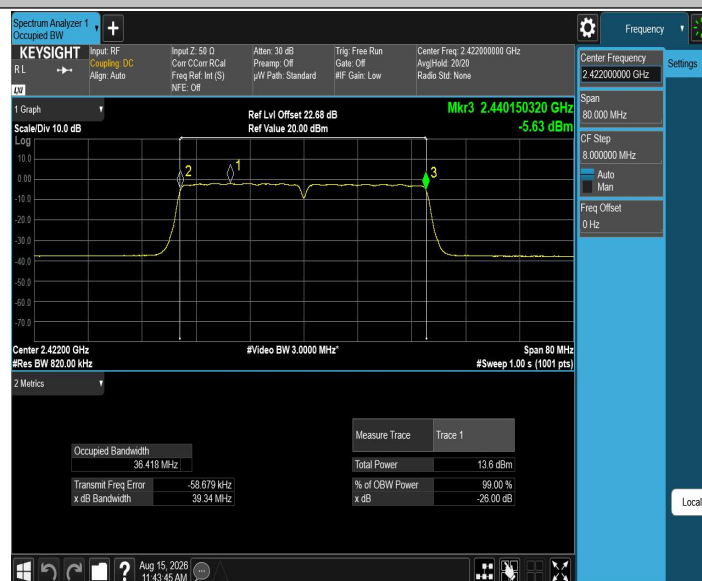
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11AX20MIMO_Ant2_2472



11AX40MIMO_Ant1_2422



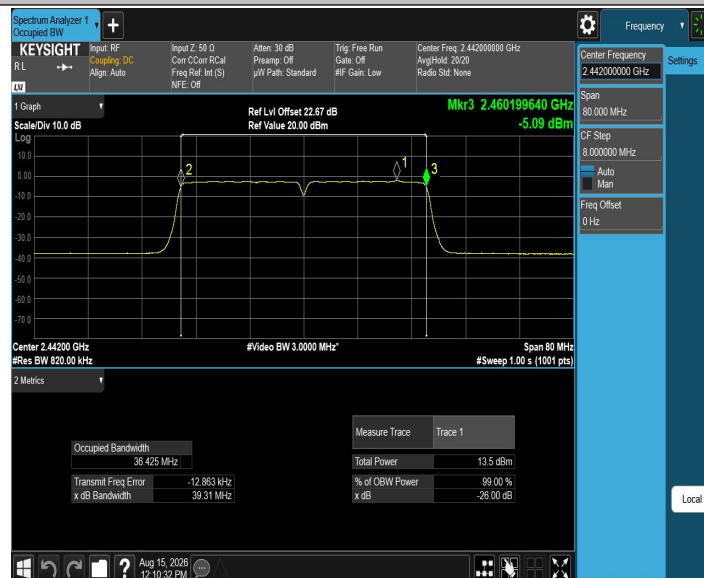
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11AX40MIMO_Ant1_2442



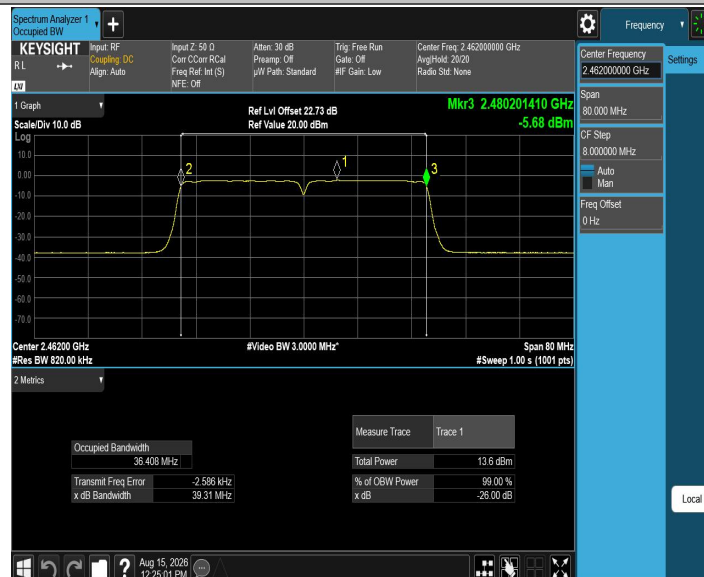
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11AX40MIMO_Ant1_2462

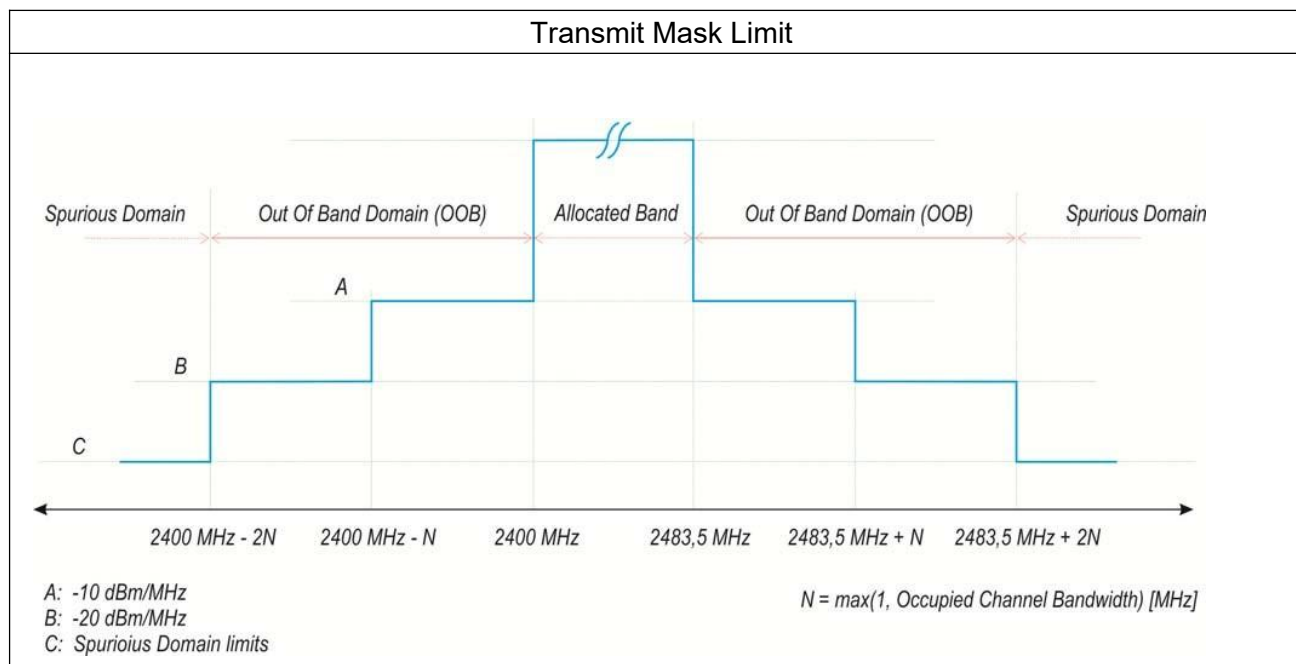


11AX40MIMO_Ant2_2462



3.5 Transmitter Unwanted Emissions In the Out-of-Band Domain (Refer to clause 4.3.2.8)

3.5.1 Limit



3.5.2 Test Peripherals

Support Equipment				
No.	Equipment	Brand Name	Model Name	Remarks
1	Record PC	Lenovo	M4000q	N/A

3.5.3 Test Procedure

Test Method	
☒ Conducted Measurement	☐ Radiated Measurement
Test Channels	
☐ Lowest, Middle and Highest Channel	☒ Lowest and Highest Channel
Environmental conditions	
☒ Normal	☐ Normal and Extreme
Note: ●:Test ○:No Test	

a) Connect the EUT to the spectrum analyser and using the following settings:

Centre Frequency	2484MHz
Span	0Hz
Resolution BW	1MHz
VBW	3MHz
Detector Mode	RMS
Trace Mode	Max Hold
Sweep mode	Continuous
Sweep Points	Sweep time [μs] / 1 μs or 5000 whichever is greater

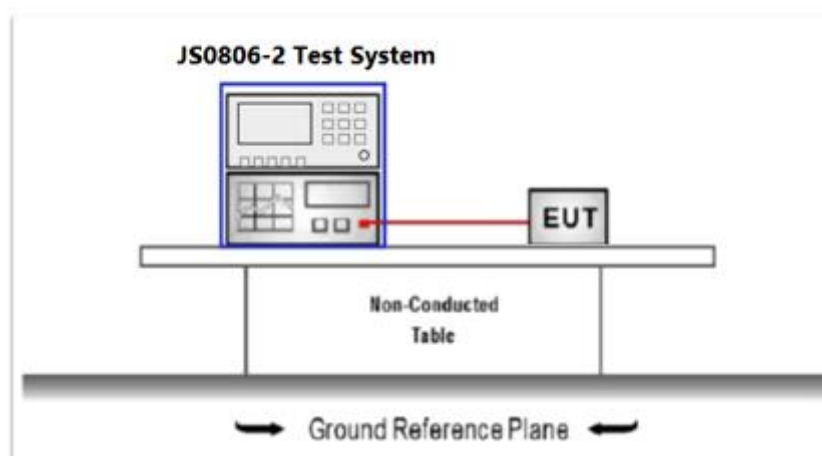
Trigger Mode	Video trigger
Sweep Time	>120% of the duration of the longest burst detected during the measurement of the RF Output Power.

- b) Adjust the trigger level to select the transmissions with the highest power level.
- c) Set a window (start and stop lines) to match with the start and end of the burst and in which the RMS power shall be measured using the Time Domain Power function.
- d) Select RMS power to be measured within the selected window and note the result which is the RMS power within this 1 MHz segment (2 483,5 MHz to 2 484,5 MHz). Compare this value with the applicable limit provided by the mask.
- e) Increase the centre frequency in steps of 1 MHz and repeat this measurement for every 1 MHz segment within the range 2 483,5 MHz to 2 483,5 MHz + BW. The centre frequency of the last 1 MHz segment shall be set to 2 483,5 MHz + BW - 0,5 MHz (which means this may partly overlap with the previous 1 MHz segment).
- f) Change the centre frequency of the analyser to 2 484 MHz + BW and perform the measurement for the first 1 MHz segment within range 2 483,5 MHz + BW to 2 483,5 MHz + 2BW. Increase the centre frequency in 1 MHz steps and repeat the measurements to cover this whole range. The centre frequency of the last 1 MHz segment shall be set to 2 483,5 MHz + 2 BW - 0,5 MHz (which means this may partly overlap with the previous 1 MHz segment).
- g) Change the centre frequency of the analyser to 2 399,5 MHz and perform the measurement for the first 1 MHz segment within range 2 400 MHz - BW to 2 400 MHz. Reduce the centre frequency in 1 MHz steps and repeat the measurements to cover this whole range. The centre frequency of the last 1 MHz segment shall be set to 2 400 MHz - BW + 0,5 MHz (which means this may partly overlap with the previous 1 MHz segment).
- h) Change the centre frequency of the analyser to 2 399,5 MHz - BW and perform the measurement for the first 1 MHz segment within range 2 400 MHz - 2BW to 2 400 MHz - BW. Reduce the centre frequency in 1 MHz steps and repeat the measurements to cover this whole range. The centre frequency of the last 1 MHz segment shall be set to 2 400 MHz - 2BW + 0,5 MHz (which means this may partly overlap with the previous 1 MHz segment).
- i) In case of conducted measurements on equipment with a single transmit chain, the declared antenna assembly gain G in dBi shall be added to the results for each of the 1 MHz segments and compared with the limits. If more than one antenna assembly is intended for this power setting, the antenna with the highest gain shall be considered.
- j) In case of conducted measurements on smart antenna systems (equipment with multiple transmit chains), the measurements need to be repeated for each of the active transmit chains. The declared antenna assembly gain G in dBi for a single antenna shall be added to these results. If more than one antenna assembly is intended for this power setting, the antenna with the highest gain shall be considered. Comparison with the applicable limits shall be done using below options given below:

Option 1: the results for each of the transmit chains for the corresponding 1 MHz segments shall be added.

k) It shall be recorded whether the equipment complies with the mask provided.

3.5.4 Test Configuration



3.5.5 The Result of Transmitter Unwanted Emissions in the Out-of-Band Domain

3.5.5.1 Test Result

TestMode	Antenna	Freq(MHz)	Freq. [MHz]	Level[dBm]	Limit[dBm]	Verdict
11B-CDD	Ant1	2412	2379.738	-41.98	-23.01	PASS
			2380.119	-41.95	-23.01	PASS
			2381.119	-41.96	-23.01	PASS
			2382.119	-41.93	-23.01	PASS
			2383.119	-41.89	-23.01	PASS
			2384.119	-41.93	-23.01	PASS
			2385.119	-41.93	-23.01	PASS
			2386.119	-41.89	-23.01	PASS
			2387.119	-41.89	-23.01	PASS
			2388.119	-42.06	-23.01	PASS
			2389.119	-41.84	-23.01	PASS
			2390.119	-41.87	-13.01	PASS
			2390.5	-41.88	-13.01	PASS
			2391.5	-41.87	-13.01	PASS
			2392.5	-41.86	-13.01	PASS
			2393.5	-41.86	-13.01	PASS
			2394.5	-41.77	-13.01	PASS
			2395.5	-41.76	-13.01	PASS
			2396.5	-41.70	-13.01	PASS
			2397.5	-41.74	-13.01	PASS
			2398.5	-41.76	-13.01	PASS
			2399.5	-41.57	-13.01	PASS

			2484	-41.96	-13.01	PASS
			2485	-42.42	-13.01	PASS
			2486	-41.96	-13.01	PASS
			2487	-41.97	-13.01	PASS
			2488	-41.98	-13.01	PASS
			2489	-41.95	-13.01	PASS
			2490	-41.94	-13.01	PASS
			2491	-41.96	-13.01	PASS
			2492	-41.96	-13.01	PASS
			2493	-41.94	-13.01	PASS
			2493.381	-41.94	-13.01	PASS
			2494.381	-41.95	-23.01	PASS
			2495.381	-41.94	-23.01	PASS
			2496.381	-41.92	-23.01	PASS
			2497.381	-41.92	-23.01	PASS
			2498.381	-41.93	-23.01	PASS
			2499.381	-41.91	-23.01	PASS
			2500.381	-41.90	-23.01	PASS
			2501.381	-41.90	-23.01	PASS
			2502.381	-41.89	-23.01	PASS
			2503.381	-41.88	-23.01	PASS
			2503.762	-41.88	-23.01	PASS
	Ant2	2412	2379.71	-41.89	-23.01	PASS
			2380.105	-41.91	-23.01	PASS
			2381.105	-41.88	-23.01	PASS
			2382.105	-41.86	-23.01	PASS
			2383.105	-41.87	-23.01	PASS
			2384.105	-41.87	-23.01	PASS
			2385.105	-41.84	-23.01	PASS
			2386.105	-41.84	-23.01	PASS
			2387.105	-41.82	-23.01	PASS
			2388.105	-41.82	-23.01	PASS
			2389.105	-41.77	-23.01	PASS
			2390.105	-41.79	-13.01	PASS
			2390.5	-41.81	-13.01	PASS
			2391.5	-41.71	-13.01	PASS
			2392.5	-41.78	-13.01	PASS
			2393.5	-41.74	-13.01	PASS
			2394.5	-41.67	-13.01	PASS
			2395.5	-41.62	-13.01	PASS
			2396.5	-41.70	-13.01	PASS
			2397.5	-41.51	-13.01	PASS
			2398.5	-41.56	-13.01	PASS
			2399.5	-41.40	-13.01	PASS

			2484	-41.93	-13.01	PASS
			2485	-41.94	-13.01	PASS
			2486	-41.93	-13.01	PASS
			2487	-41.93	-13.01	PASS
			2488	-41.96	-13.01	PASS
			2489	-42.24	-13.01	PASS
			2490	-41.91	-13.01	PASS
			2491	-41.93	-13.01	PASS
			2492	-41.94	-13.01	PASS
			2493	-41.91	-13.01	PASS
			2493.395	-41.91	-13.01	PASS
			2494.395	-41.92	-23.01	PASS
			2495.395	-41.90	-23.01	PASS
			2496.395	-41.90	-23.01	PASS
			2497.395	-41.91	-23.01	PASS
			2498.395	-41.88	-23.01	PASS
			2499.395	-41.89	-23.01	PASS
			2500.395	-41.87	-23.01	PASS
			2501.395	-41.88	-23.01	PASS
			2502.395	-41.85	-23.01	PASS
			2503.395	-41.85	-23.01	PASS
			2503.79	-41.84	-23.01	PASS
	Ant1	2472	2379.738	-42.34	-23.01	PASS
			2380.119	-42.32	-23.01	PASS
			2381.119	-42.33	-23.01	PASS
			2382.119	-42.33	-23.01	PASS
			2383.119	-42.31	-23.01	PASS
			2384.119	-42.31	-23.01	PASS
			2385.119	-42.32	-23.01	PASS
			2386.119	-42.31	-23.01	PASS
			2387.119	-42.31	-23.01	PASS
			2388.119	-42.29	-23.01	PASS
			2389.119	-42.27	-23.01	PASS
			2390.119	-42.28	-13.01	PASS
			2390.5	-42.28	-13.01	PASS
			2391.5	-42.26	-13.01	PASS
			2392.5	-42.27	-13.01	PASS
			2393.5	-42.28	-13.01	PASS
			2394.5	-42.26	-13.01	PASS
			2395.5	-42.25	-13.01	PASS
			2396.5	-42.25	-13.01	PASS
			2397.5	-42.28	-13.01	PASS
			2398.5	-42.26	-13.01	PASS
			2399.5	-42.23	-13.01	PASS

			2484	-41.86	-13.01	PASS
			2485	-41.84	-13.01	PASS
			2486	-41.83	-13.01	PASS
			2487	-41.97	-13.01	PASS
			2488	-42.01	-13.01	PASS
			2489	-42.04	-13.01	PASS
			2490	-42.01	-13.01	PASS
			2491	-42.08	-13.01	PASS
			2492	-42.09	-13.01	PASS
			2493	-42.06	-13.01	PASS
			2493.381	-42.05	-13.01	PASS
			2494.381	-42.05	-23.01	PASS
			2495.381	-42.06	-23.01	PASS
			2496.381	-42.06	-23.01	PASS
			2497.381	-42.06	-23.01	PASS
			2498.381	-42.04	-23.01	PASS
			2499.381	-42.05	-23.01	PASS
			2500.381	-42.02	-23.01	PASS
			2501.381	-42.02	-23.01	PASS
			2502.381	-42.05	-23.01	PASS
			2503.381	-42.03	-23.01	PASS
			2503.762	-42.03	-23.01	PASS
	Ant2	2472	2379.79	-42.28	-23.01	PASS
			2380.145	-42.28	-23.01	PASS
			2381.145	-42.27	-23.01	PASS
			2382.145	-42.27	-23.01	PASS
			2383.145	-42.27	-23.01	PASS
			2384.145	-42.25	-23.01	PASS
			2385.145	-42.24	-23.01	PASS
			2386.145	-42.25	-23.01	PASS
			2387.145	-42.55	-23.01	PASS
			2388.145	-1000.00	-23.01	PASS
			2389.145	-1000.00	-23.01	PASS
			2390.145	-42.26	-13.01	PASS
			2390.5	-42.26	-13.01	PASS
			2391.5	-42.24	-13.01	PASS
			2392.5	-42.24	-13.01	PASS
			2393.5	-42.24	-13.01	PASS
			2394.5	-42.22	-13.01	PASS
			2395.5	-42.23	-13.01	PASS
			2396.5	-42.21	-13.01	PASS
			2397.5	-42.21	-13.01	PASS
			2398.5	-42.20	-13.01	PASS
			2399.5	-42.21	-13.01	PASS

			2484	-41.60	-13.01	PASS
			2485	-41.59	-13.01	PASS
			2486	-42.17	-13.01	PASS
			2487	-1000.00	-13.01	PASS
			2488	-42.09	-13.01	PASS
			2489	-41.78	-13.01	PASS
			2490	-41.72	-13.01	PASS
			2491	-41.83	-13.01	PASS
			2492	-41.82	-13.01	PASS
			2493	-41.75	-13.01	PASS
			2493.355	-41.74	-13.01	PASS
			2494.355	-41.81	-23.01	PASS
			2495.355	-41.77	-23.01	PASS
			2496.355	-41.82	-23.01	PASS
			2497.355	-41.78	-23.01	PASS
			2498.355	-41.76	-23.01	PASS
			2499.355	-41.81	-23.01	PASS
			2500.355	-41.81	-23.01	PASS
			2501.355	-41.81	-23.01	PASS
			2502.355	-41.77	-23.01	PASS
			2503.355	-41.76	-23.01	PASS
			2503.71	-41.77	-23.01	PASS
11G-CDD	Ant1	2412	2366.853	-41.70	-23.01	PASS
			2367.206	-41.71	-23.01	PASS
			2367.853	-41.69	-23.01	PASS
			2368.853	-41.67	-23.01	PASS
			2369.853	-41.65	-23.01	PASS
			2370.853	-41.70	-23.01	PASS
			2371.853	-41.68	-23.01	PASS
			2372.853	-41.66	-23.01	PASS
			2373.853	-41.64	-23.01	PASS
			2374.853	-41.61	-23.01	PASS
			2375.853	-41.58	-23.01	PASS
			2376.853	-41.56	-23.01	PASS
			2377.853	-41.54	-23.01	PASS
			2378.853	-41.51	-23.01	PASS
			2379.853	-41.51	-23.01	PASS
			2380.853	-41.48	-23.01	PASS
			2381.853	-41.43	-23.01	PASS
			2382.853	-41.39	-23.01	PASS
			2383.5	-41.40	-13.01	PASS
			2383.853	-41.39	-13.01	PASS
			2384.5	-41.37	-13.01	PASS
			2385.5	-41.34	-13.01	PASS

			2386.5	-41.29	-13.01	PASS
			2387.5	-41.24	-13.01	PASS
			2388.5	-41.22	-13.01	PASS
			2389.5	-41.18	-13.01	PASS
			2390.5	-41.06	-13.01	PASS
			2391.5	-40.76	-13.01	PASS
			2392.5	-40.51	-13.01	PASS
			2393.5	-40.47	-13.01	PASS
			2394.5	-40.45	-13.01	PASS
			2395.5	-40.02	-13.01	PASS
			2396.5	-39.25	-13.01	PASS
			2397.5	-38.57	-13.01	PASS
			2398.5	-38.35	-13.01	PASS
			2399.5	-37.00	-13.01	PASS
			2484	-42.01	-13.01	PASS
			2485	-42.00	-13.01	PASS
			2486	-41.99	-13.01	PASS
			2487	-41.98	-13.01	PASS
			2488	-41.99	-13.01	PASS
			2489	-41.99	-13.01	PASS
			2490	-41.98	-13.01	PASS
			2491	-42.00	-13.01	PASS
			2492	-42.01	-13.01	PASS
			2493	-41.99	-13.01	PASS
			2494	-42.00	-13.01	PASS
			2495	-41.99	-13.01	PASS
			2496	-41.98	-13.01	PASS
			2497	-41.97	-13.01	PASS
			2498	-41.97	-13.01	PASS
			2499	-41.95	-13.01	PASS
			2499.647	-41.95	-13.01	PASS
			2500	-41.93	-13.01	PASS
			2500.647	-41.97	-23.01	PASS
			2501.647	-41.94	-23.01	PASS
			2502.647	-41.93	-23.01	PASS
			2503.647	-41.90	-23.01	PASS
			2504.647	-41.84	-23.01	PASS
			2505.647	-41.84	-23.01	PASS
			2506.647	-41.83	-23.01	PASS
			2507.647	-41.82	-23.01	PASS
			2508.647	-41.81	-23.01	PASS
			2509.647	-41.80	-23.01	PASS
			2510.647	-41.80	-23.01	PASS
			2511.647	-41.81	-23.01	PASS

			2512.647	-41.78	-23.01	PASS
			2513.647	-41.79	-23.01	PASS
			2514.647	-41.78	-23.01	PASS
			2515.647	-41.76	-23.01	PASS
			2516.294	-41.78	-23.01	PASS
			2516.647	-41.76	-23.01	PASS
	Ant2	2412	2366.83	-41.86	-23.01	PASS
			2367.16	-41.84	-23.01	PASS
			2367.83	-41.84	-23.01	PASS
			2368.83	-41.82	-23.01	PASS
			2369.83	-41.80	-23.01	PASS
			2370.83	-41.82	-23.01	PASS
			2371.83	-41.79	-23.01	PASS
			2372.83	-41.78	-23.01	PASS
			2373.83	-41.76	-23.01	PASS
			2374.83	-41.73	-23.01	PASS
			2375.83	-41.72	-23.01	PASS
			2376.83	-41.70	-23.01	PASS
			2377.83	-41.69	-23.01	PASS
			2378.83	-41.63	-23.01	PASS
			2379.83	-41.60	-23.01	PASS
			2380.83	-41.59	-23.01	PASS
			2381.83	-41.54	-23.01	PASS
			2382.83	-41.51	-23.01	PASS
			2383.5	-41.47	-13.01	PASS
			2383.83	-41.45	-13.01	PASS
			2384.5	-41.42	-13.01	PASS
			2385.5	-41.36	-13.01	PASS
			2386.5	-41.35	-13.01	PASS
			2387.5	-41.30	-13.01	PASS
			2388.5	-41.20	-13.01	PASS
			2389.5	-41.08	-13.01	PASS
			2390.5	-41.01	-13.01	PASS
			2391.5	-40.90	-13.01	PASS
			2392.5	-40.76	-13.01	PASS
			2393.5	-40.58	-13.01	PASS
			2394.5	-40.34	-13.01	PASS
			2395.5	-40.04	-13.01	PASS
			2396.5	-39.83	-13.01	PASS
			2397.5	-39.59	-13.01	PASS
			2398.5	-39.06	-13.01	PASS
			2399.5	-36.58	-13.01	PASS
			2484	-41.90	-13.01	PASS
			2485	-41.89	-13.01	PASS

			2486	-41.91	-13.01	PASS
			2487	-41.89	-13.01	PASS
			2488	-41.91	-13.01	PASS
			2489	-41.89	-13.01	PASS
			2490	-41.90	-13.01	PASS
			2491	-41.92	-13.01	PASS
			2492	-41.92	-13.01	PASS
			2493	-41.90	-13.01	PASS
			2494	-41.92	-13.01	PASS
			2495	-41.90	-13.01	PASS
			2496	-41.89	-13.01	PASS
			2497	-41.90	-13.01	PASS
			2498	-41.89	-13.01	PASS
			2499	-41.88	-13.01	PASS
			2499.67	-41.89	-13.01	PASS
			2500	-41.88	-13.01	PASS
			2500.67	-41.88	-23.01	PASS
			2501.67	-41.88	-23.01	PASS
			2502.67	-41.86	-23.01	PASS
			2503.67	-41.81	-23.01	PASS
			2504.67	-41.76	-23.01	PASS
			2505.67	-41.75	-23.01	PASS
			2506.67	-41.73	-23.01	PASS
			2507.67	-41.74	-23.01	PASS
			2508.67	-41.72	-23.01	PASS
			2509.67	-41.72	-23.01	PASS
			2510.67	-41.71	-23.01	PASS
			2511.67	-41.75	-23.01	PASS
			2512.67	-41.85	-23.01	PASS
			2513.67	-41.70	-23.01	PASS
			2514.67	-41.69	-23.01	PASS
			2515.67	-41.71	-23.01	PASS
			2516.34	-41.69	-23.01	PASS
			2516.67	-41.69	-23.01	PASS
	Ant1	2472	2366.849	-42.12	-23.01	PASS
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			2367.849	-42.11	-23.01	PASS
			2368.849	-42.09	-23.01	PASS
			2369.849	-42.07	-23.01	PASS
			2370.849	-42.12	-23.01	PASS
			2371.849	-42.30	-23.01	PASS
			2372.849	-42.01	-23.01	PASS
			2373.849	-42.00	-23.01	PASS
			2374.849	-42.01	-23.01	PASS

			2375.849	-42.00	-23.01	PASS
			2376.849	-41.98	-23.01	PASS
			2377.849	-41.96	-23.01	PASS
			2378.849	-41.96	-23.01	PASS
			2379.849	-41.98	-23.01	PASS
			2380.849	-41.98	-23.01	PASS
			2381.849	-41.96	-23.01	PASS
			2382.849	-41.95	-23.01	PASS
			2383.5	-41.96	-13.01	PASS
			2383.849	-41.95	-13.01	PASS
			2384.5	-41.94	-13.01	PASS
			2385.5	-42.14	-13.01	PASS
			2386.5	-41.93	-13.01	PASS
			2387.5	-41.94	-13.01	PASS
			2388.5	-41.94	-13.01	PASS
			2389.5	-41.92	-13.01	PASS
			2390.5	-41.90	-13.01	PASS
			2391.5	-41.90	-13.01	PASS
			2392.5	-41.88	-13.01	PASS
			2393.5	-41.89	-13.01	PASS
			2394.5	-41.88	-13.01	PASS
			2395.5	-41.87	-13.01	PASS
			2396.5	-41.88	-13.01	PASS
			2397.5	-41.86	-13.01	PASS
			2398.5	-41.86	-13.01	PASS
			2399.5	-41.83	-13.01	PASS
			2484	-33.45	-13.01	PASS
			2485	-37.68	-13.01	PASS
			2486	-38.33	-13.01	PASS
			2487	-38.97	-13.01	PASS
			2488	-39.75	-13.01	PASS
			2489	-40.09	-13.01	PASS
			2490	-40.10	-13.01	PASS
			2491	-40.39	-13.01	PASS
			2492	-40.77	-13.01	PASS
			2493	-41.09	-13.01	PASS
			2494	-41.18	-13.01	PASS
			2495	-41.24	-13.01	PASS
			2496	-41.25	-13.01	PASS
			2497	-41.26	-13.01	PASS
			2498	-41.30	-13.01	PASS
			2499	-41.34	-13.01	PASS
			2499.651	-41.35	-13.01	PASS
			2500	-41.34	-13.01	PASS

			2500.651	-41.35	-23.01	PASS
			2501.651	-41.37	-23.01	PASS
			2502.651	-41.38	-23.01	PASS
			2503.651	-41.40	-23.01	PASS
			2504.651	-41.44	-23.01	PASS
			2505.651	-41.44	-23.01	PASS
			2506.651	-41.47	-23.01	PASS
			2507.651	-41.46	-23.01	PASS
			2508.651	-41.46	-23.01	PASS
			2509.651	-41.47	-23.01	PASS
			2510.651	-41.47	-23.01	PASS
			2511.651	-41.47	-23.01	PASS
			2512.651	-41.48	-23.01	PASS
			2513.651	-41.47	-23.01	PASS
			2514.651	-41.51	-23.01	PASS
			2515.651	-41.50	-23.01	PASS
			2516.302	-41.48	-23.01	PASS
			2516.651	-41.49	-23.01	PASS
	Ant2	2472	2366.859	-42.25	-23.01	PASS
			2367.218	-42.23	-23.01	PASS
			2367.859	-42.22	-23.01	PASS
			2368.859	-42.21	-23.01	PASS
			2369.859	-42.21	-23.01	PASS
			2370.859	-42.25	-23.01	PASS
			2371.859	-42.23	-23.01	PASS
			2372.859	-42.23	-23.01	PASS
			2373.859	-42.22	-23.01	PASS
			2374.859	-42.20	-23.01	PASS
			2375.859	-42.20	-23.01	PASS
			2376.859	-42.18	-23.01	PASS
			2377.859	-1000.00	-23.01	PASS
			2378.859	-43.04	-23.01	PASS
			2379.859	-42.15	-23.01	PASS
			2380.859	-42.14	-23.01	PASS
			2381.859	-42.13	-23.01	PASS
			2382.859	-42.15	-23.01	PASS
			2383.5	-42.12	-13.01	PASS
			2383.859	-42.12	-13.01	PASS
			2384.5	-42.13	-13.01	PASS
			2385.5	-42.11	-13.01	PASS
			2386.5	-42.09	-13.01	PASS
			2387.5	-42.09	-13.01	PASS
			2388.5	-42.08	-13.01	PASS
			2389.5	-42.09	-13.01	PASS

			2390.5	-42.08	-13.01	PASS
			2391.5	-42.07	-13.01	PASS
			2392.5	-42.05	-13.01	PASS
			2393.5	-42.06	-13.01	PASS
			2394.5	-42.05	-13.01	PASS
			2395.5	-42.07	-13.01	PASS
			2396.5	-42.02	-13.01	PASS
			2397.5	-42.03	-13.01	PASS
			2398.5	-42.03	-13.01	PASS
			2399.5	-42.01	-13.01	PASS
			2484	-33.16	-13.01	PASS
			2485	-38.02	-13.01	PASS
			2486	-38.80	-13.01	PASS
			2487	-38.88	-13.01	PASS
			2488	-39.12	-13.01	PASS
			2489	-39.56	-13.01	PASS
			2490	-40.02	-13.01	PASS
			2491	-40.38	-13.01	PASS
			2492	-40.53	-13.01	PASS
			2493	-40.63	-13.01	PASS
			2494	-40.79	-13.01	PASS
			2495	-40.92	-13.01	PASS
			2496	-41.00	-13.01	PASS
			2497	-41.06	-13.01	PASS
			2498	-41.09	-13.01	PASS
			2499	-41.17	-13.01	PASS
			2499.641	-41.20	-13.01	PASS
			2500	-41.22	-13.01	PASS
			2500.641	-41.22	-23.01	PASS
			2501.641	-41.29	-23.01	PASS
			2502.641	-41.30	-23.01	PASS
			2503.641	-41.31	-23.01	PASS
			2504.641	-41.36	-23.01	PASS
			2505.641	-41.35	-23.01	PASS
			2506.641	-41.36	-23.01	PASS
			2507.641	-41.38	-23.01	PASS
			2508.641	-41.39	-23.01	PASS
			2509.641	-41.39	-23.01	PASS
			2510.641	-41.40	-23.01	PASS
			2511.641	-41.40	-23.01	PASS
			2512.641	-41.39	-23.01	PASS
			2513.641	-41.40	-23.01	PASS
			2514.641	-41.40	-23.01	PASS
			2515.641	-41.40	-23.01	PASS

11N20MIMO	Ant1	2412	2516.282	-41.43	-23.01	PASS
			2516.641	-41.42	-23.01	PASS
			2364.63	-41.10	-23.01	PASS
			2364.76	-41.09	-23.01	PASS
			2365.63	-41.06	-23.01	PASS
			2366.63	-41.05	-23.01	PASS
			2367.63	-41.02	-23.01	PASS
			2368.63	-41.01	-23.01	PASS
			2369.63	-41.01	-23.01	PASS
			2370.63	-41.03	-23.01	PASS
			2371.63	-41.04	-23.01	PASS
			2372.63	-41.01	-23.01	PASS
			2373.63	-40.97	-23.01	PASS
			2374.63	-40.96	-23.01	PASS
			2375.63	-40.96	-23.01	PASS
			2376.63	-40.94	-23.01	PASS
			2377.63	-40.90	-23.01	PASS
			2378.63	-40.90	-23.01	PASS
			2379.63	-40.85	-23.01	PASS
			2380.63	-40.80	-23.01	PASS
			2381.63	-40.81	-23.01	PASS
			2382.5	-40.79	-13.01	PASS
			2382.63	-40.78	-13.01	PASS
			2383.5	-40.75	-13.01	PASS
			2384.5	-40.76	-13.01	PASS
			2385.5	-40.70	-13.01	PASS
			2386.5	-40.68	-13.01	PASS
			2387.5	-40.64	-13.01	PASS
			2388.5	-40.57	-13.01	PASS
			2389.5	-40.54	-13.01	PASS
			2390.5	-40.37	-13.01	PASS
			2391.5	-40.26	-13.01	PASS
			2392.5	-40.19	-13.01	PASS
			2393.5	-39.71	-13.01	PASS
			2394.5	-39.81	-13.01	PASS
			2395.5	-39.33	-13.01	PASS
			2396.5	-38.91	-13.01	PASS
			2397.5	-38.90	-13.01	PASS
			2398.5	-37.91	-13.01	PASS
			2399.5	-35.57	-13.01	PASS
			2484	-41.31	-13.01	PASS
			2485	-41.32	-13.01	PASS
			2486	-41.29	-13.01	PASS
			2487	-41.30	-13.01	PASS

			2488	-41.29	-13.01	PASS
			2489	-41.30	-13.01	PASS
			2490	-41.29	-13.01	PASS
			2491	-41.31	-13.01	PASS
			2492	-41.29	-13.01	PASS
			2493	-41.30	-13.01	PASS
			2494	-41.28	-13.01	PASS
			2495	-42.27	-13.01	PASS
			2496	-41.25	-13.01	PASS
			2497	-41.26	-13.01	PASS
			2498	-41.23	-13.01	PASS
			2499	-41.23	-13.01	PASS
			2500	-41.19	-13.01	PASS
			2500.87	-41.21	-13.01	PASS
			2501	-41.22	-13.01	PASS
			2501.87	-41.22	-23.01	PASS
			2502.87	-41.20	-23.01	PASS
			2503.87	-41.13	-23.01	PASS
			2504.87	-41.13	-23.01	PASS
			2505.87	-41.12	-23.01	PASS
			2506.87	-41.10	-23.01	PASS
			2507.87	-41.11	-23.01	PASS
			2508.87	-41.44	-23.01	PASS
			2509.87	-41.45	-23.01	PASS
			2510.87	-41.43	-23.01	PASS
			2511.87	-41.46	-23.01	PASS
			2512.87	-41.42	-23.01	PASS
			2513.87	-41.40	-23.01	PASS
			2514.87	-41.41	-23.01	PASS
			2515.87	-41.39	-23.01	PASS
			2516.87	-41.37	-23.01	PASS
			2517.87	-41.38	-23.01	PASS
			2518.74	-41.37	-23.01	PASS
			2518.87	-41.37	-23.01	PASS
	Ant2	2412	2364.663	-41.18	-23.01	PASS
			2364.826	-41.18	-23.01	PASS
			2365.663	-41.17	-23.01	PASS
			2366.663	-41.15	-23.01	PASS
			2367.663	-41.13	-23.01	PASS
			2368.663	-41.12	-23.01	PASS
			2369.663	-41.10	-23.01	PASS
			2370.663	-41.12	-23.01	PASS
			2371.663	-41.11	-23.01	PASS
			2372.663	-41.09	-23.01	PASS

			2373.663	-41.08	-23.01	PASS
			2374.663	-41.06	-23.01	PASS
			2375.663	-41.02	-23.01	PASS
			2376.663	-41.00	-23.01	PASS
			2377.663	-40.98	-23.01	PASS
			2378.663	-40.95	-23.01	PASS
			2379.663	-40.92	-23.01	PASS
			2380.663	-40.84	-23.01	PASS
			2381.663	-40.82	-23.01	PASS
			2382.5	-40.79	-13.01	PASS
			2382.663	-40.77	-13.01	PASS
			2383.5	-40.71	-13.01	PASS
			2384.5	-40.68	-13.01	PASS
			2385.5	-40.62	-13.01	PASS
			2386.5	-40.55	-13.01	PASS
			2387.5	-40.44	-13.01	PASS
			2388.5	-40.41	-13.01	PASS
			2389.5	-40.25	-13.01	PASS
			2390.5	-40.11	-13.01	PASS
			2391.5	-40.04	-13.01	PASS
			2392.5	-39.79	-13.01	PASS
			2393.5	-39.67	-13.01	PASS
			2394.5	-39.26	-13.01	PASS
			2395.5	-38.99	-13.01	PASS
			2396.5	-38.76	-13.01	PASS
			2397.5	-38.23	-13.01	PASS
			2398.5	-37.97	-13.01	PASS
			2399.5	-35.47	-13.01	PASS
			2484	-41.18	-13.01	PASS
			2485	-41.19	-13.01	PASS
			2486	-41.19	-13.01	PASS
			2487	-41.21	-13.01	PASS
			2488	-41.19	-13.01	PASS
			2489	-41.20	-13.01	PASS
			2490	-41.19	-13.01	PASS
			2491	-41.21	-13.01	PASS
			2492	-41.20	-13.01	PASS
			2493	-41.21	-13.01	PASS
			2494	-41.20	-13.01	PASS
			2495	-41.19	-13.01	PASS
			2496	-41.66	-13.01	PASS
			2497	-42.17	-13.01	PASS
			2498	-41.16	-13.01	PASS
			2499	-41.15	-13.01	PASS

			2500	-41.15	-13.01	PASS
			2500.837	-41.18	-13.01	PASS
			2501	-41.15	-13.01	PASS
			2501.837	-41.13	-23.01	PASS
			2502.837	-41.09	-23.01	PASS
			2503.837	-41.02	-23.01	PASS
			2504.837	-41.36	-23.01	PASS
			2505.837	-41.36	-23.01	PASS
			2506.837	-41.33	-23.01	PASS
			2507.837	-41.35	-23.01	PASS
			2508.837	-41.33	-23.01	PASS
			2509.837	-41.34	-23.01	PASS
			2510.837	-41.33	-23.01	PASS
			2511.837	-41.35	-23.01	PASS
			2512.837	-41.31	-23.01	PASS
			2513.837	-41.31	-23.01	PASS
			2514.837	-41.31	-23.01	PASS
			2515.837	-41.30	-23.01	PASS
			2516.837	-41.29	-23.01	PASS
			2517.837	-41.29	-23.01	PASS
			2518.674	-41.28	-23.01	PASS
			2518.837	-41.27	-23.01	PASS
	Ant1	2472	2364.64	-41.30	-23.01	PASS
			2364.78	-41.29	-23.01	PASS
			2365.64	-41.29	-23.01	PASS
			2366.64	-41.29	-23.01	PASS
			2367.64	-41.27	-23.01	PASS
			2368.64	-41.26	-23.01	PASS
			2369.64	-41.25	-23.01	PASS
			2370.64	-41.29	-23.01	PASS
			2371.64	-41.30	-23.01	PASS
			2372.64	-41.27	-23.01	PASS
			2373.64	-41.30	-23.01	PASS
			2374.64	-41.27	-23.01	PASS
			2375.64	-41.25	-23.01	PASS
			2376.64	-41.26	-23.01	PASS
			2377.64	-41.27	-23.01	PASS
			2378.64	-41.57	-23.01	PASS
			2379.64	-41.54	-23.01	PASS
			2380.64	-41.55	-23.01	PASS
			2381.64	-41.57	-23.01	PASS
			2382.5	-41.57	-13.01	PASS
			2382.64	-41.56	-13.01	PASS
			2383.5	-41.54	-13.01	PASS

			2384.5	-41.55	-13.01	PASS
			2385.5	-41.53	-13.01	PASS
			2386.5	-41.53	-13.01	PASS
			2387.5	-41.51	-13.01	PASS
			2388.5	-41.51	-13.01	PASS
			2389.5	-41.52	-13.01	PASS
			2390.5	-41.51	-13.01	PASS
			2391.5	-41.48	-13.01	PASS
			2392.5	-41.48	-13.01	PASS
			2393.5	-41.49	-13.01	PASS
			2394.5	-41.47	-13.01	PASS
			2395.5	-41.47	-13.01	PASS
			2396.5	-41.44	-13.01	PASS
			2397.5	-41.45	-13.01	PASS
			2398.5	-41.43	-13.01	PASS
			2399.5	-41.42	-13.01	PASS
			2484	-31.84	-13.01	PASS
			2485	-36.23	-13.01	PASS
			2486	-37.34	-13.01	PASS
			2487	-37.65	-13.01	PASS
			2488	-38.04	-13.01	PASS
			2489	-38.79	-13.01	PASS
			2490	-38.90	-13.01	PASS
			2491	-39.47	-13.01	PASS
			2492	-39.79	-13.01	PASS
			2493	-39.92	-13.01	PASS
			2494	-40.30	-13.01	PASS
			2495	-40.34	-13.01	PASS
			2496	-40.47	-13.01	PASS
			2497	-40.86	-13.01	PASS
			2498	-40.88	-13.01	PASS
			2499	-40.94	-13.01	PASS
			2500	-40.90	-13.01	PASS
			2500.86	-40.93	-13.01	PASS
			2501	-40.94	-13.01	PASS
			2501.86	-40.97	-23.01	PASS
			2502.86	-40.95	-23.01	PASS
			2503.86	-40.97	-23.01	PASS
			2504.86	-41.00	-23.01	PASS
			2505.86	-41.02	-23.01	PASS
			2506.86	-41.03	-23.01	PASS
			2507.86	-41.03	-23.01	PASS
			2508.86	-41.05	-23.01	PASS
			2509.86	-41.05	-23.01	PASS

			2510.86	-41.04	-23.01	PASS
			2511.86	-41.04	-23.01	PASS
			2512.86	-41.05	-23.01	PASS
			2513.86	-41.03	-23.01	PASS
			2514.86	-41.05	-23.01	PASS
			2515.86	-41.07	-23.01	PASS
			2516.86	-41.06	-23.01	PASS
			2517.86	-41.04	-23.01	PASS
			2518.72	-41.06	-23.01	PASS
			2518.86	-41.04	-23.01	PASS
	Ant2	2472	2364.633	-41.48	-23.01	PASS
			2364.766	-41.44	-23.01	PASS
			2365.633	-41.44	-23.01	PASS
			2366.633	-41.42	-23.01	PASS
			2367.633	-41.41	-23.01	PASS
			2368.633	-41.42	-23.01	PASS
			2369.633	-41.40	-23.01	PASS
			2370.633	-41.44	-23.01	PASS
			2371.633	-41.41	-23.01	PASS
			2372.633	-41.41	-23.01	PASS
			2373.633	-41.40	-23.01	PASS
			2374.633	-41.41	-23.01	PASS
			2375.633	-41.38	-23.01	PASS
			2376.633	-41.39	-23.01	PASS
			2377.633	-41.71	-23.01	PASS
			2378.633	-41.70	-23.01	PASS
			2379.633	-41.69	-23.01	PASS
			2380.633	-41.70	-23.01	PASS
			2381.633	-41.71	-23.01	PASS
			2382.5	-41.69	-13.01	PASS
			2382.633	-41.71	-13.01	PASS
			2383.5	-41.70	-13.01	PASS
			2384.5	-41.69	-13.01	PASS
			2385.5	-41.67	-13.01	PASS
			2386.5	-41.67	-13.01	PASS
			2387.5	-41.68	-13.01	PASS
			2388.5	-41.65	-13.01	PASS
			2389.5	-41.64	-13.01	PASS
			2390.5	-41.64	-13.01	PASS
			2391.5	-41.63	-13.01	PASS
			2392.5	-41.63	-13.01	PASS
			2393.5	-41.61	-13.01	PASS
			2394.5	-41.61	-13.01	PASS
			2395.5	-41.61	-13.01	PASS

			2396.5	-41.60	-13.01	PASS
			2397.5	-41.58	-13.01	PASS
			2398.5	-41.58	-13.01	PASS
			2399.5	-41.57	-13.01	PASS
			2484	-31.83	-13.01	PASS
			2485	-37.52	-13.01	PASS
			2486	-37.81	-13.01	PASS
			2487	-38.22	-13.01	PASS
			2488	-38.82	-13.01	PASS
			2489	-38.98	-13.01	PASS
			2490	-39.42	-13.01	PASS
			2491	-39.61	-13.01	PASS
			2492	-39.79	-13.01	PASS
			2493	-40.02	-13.01	PASS
			2494	-40.07	-13.01	PASS
			2495	-40.15	-13.01	PASS
			2496	-40.20	-13.01	PASS
			2497	-40.55	-13.01	PASS
			2498	-40.61	-13.01	PASS
			2499	-40.65	-13.01	PASS
			2500	-40.68	-13.01	PASS
			2500.867	-40.73	-13.01	PASS
			2501	-40.72	-13.01	PASS
			2501.867	-40.75	-23.01	PASS
			2502.867	-40.74	-23.01	PASS
			2503.867	-40.79	-23.01	PASS
			2504.867	-40.83	-23.01	PASS
			2505.867	-40.85	-23.01	PASS
			2506.867	-40.88	-23.01	PASS
			2507.867	-40.88	-23.01	PASS
			2508.867	-40.90	-23.01	PASS
			2509.867	-40.90	-23.01	PASS
			2510.867	-40.89	-23.01	PASS
			2511.867	-40.90	-23.01	PASS
			2512.867	-40.90	-23.01	PASS
			2513.867	-40.90	-23.01	PASS
			2514.867	-40.96	-23.01	PASS
			2515.867	-40.90	-23.01	PASS
			2516.867	-40.93	-23.01	PASS
			2517.867	-40.93	-23.01	PASS
			2518.734	-40.92	-23.01	PASS
			2518.867	-40.93	-23.01	PASS
11N40MIMO	Ant1	2422	2327.708	-41.29	-23.01	PASS
			2328.104	-41.29	-23.01	PASS

			2329.104	-41.28	-23.01	PASS
			2330.104	-41.26	-23.01	PASS
			2331.104	-41.25	-23.01	PASS
			2332.104	-41.24	-23.01	PASS
			2333.104	-41.22	-23.01	PASS
			2334.104	-41.20	-23.01	PASS
			2335.104	-41.18	-23.01	PASS
			2336.104	-41.22	-23.01	PASS
			2337.104	-41.17	-23.01	PASS
			2338.104	-41.17	-23.01	PASS
			2339.104	-41.16	-23.01	PASS
			2340.104	-41.15	-23.01	PASS
			2341.104	-41.17	-23.01	PASS
			2342.104	-41.82	-23.01	PASS
			2343.104	-41.27	-23.01	PASS
			2344.104	-41.27	-23.01	PASS
			2345.104	-41.27	-23.01	PASS
			2346.104	-41.25	-23.01	PASS
			2347.104	-41.23	-23.01	PASS
			2348.104	-41.21	-23.01	PASS
			2349.104	-41.20	-23.01	PASS
			2350.104	-41.15	-23.01	PASS
			2351.104	-41.17	-23.01	PASS
			2352.104	-41.14	-23.01	PASS
			2353.104	-41.13	-23.01	PASS
			2354.104	-41.10	-23.01	PASS
			2355.104	-41.09	-23.01	PASS
			2356.104	-41.08	-23.01	PASS
			2357.104	-41.06	-23.01	PASS
			2358.104	-41.05	-23.01	PASS
			2359.104	-41.01	-23.01	PASS
			2360.104	-40.99	-23.01	PASS
			2361.104	-41.00	-23.01	PASS
			2362.104	-40.96	-23.01	PASS
			2363.104	-40.93	-23.01	PASS
			2364.104	-40.93	-13.01	PASS
			2364.5	-40.92	-13.01	PASS
			2365.5	-40.89	-13.01	PASS
			2366.5	-40.89	-13.01	PASS
			2367.5	-40.88	-13.01	PASS
			2368.5	-40.84	-13.01	PASS
			2369.5	-40.82	-13.01	PASS
			2370.5	-41.03	-13.01	PASS
			2371.5	-40.82	-13.01	PASS

			2372.5	-40.73	-13.01	PASS
			2373.5	-40.70	-13.01	PASS
			2374.5	-40.68	-13.01	PASS
			2375.5	-40.62	-13.01	PASS
			2376.5	-40.60	-13.01	PASS
			2377.5	-40.52	-13.01	PASS
			2378.5	-40.52	-13.01	PASS
			2379.5	-40.49	-13.01	PASS
			2380.5	-40.42	-13.01	PASS
			2381.5	-40.43	-13.01	PASS
			2382.5	-40.39	-13.01	PASS
			2383.5	-40.38	-13.01	PASS
			2384.5	-40.34	-13.01	PASS
			2385.5	-40.29	-13.01	PASS
			2386.5	-40.31	-13.01	PASS
			2387.5	-40.20	-13.01	PASS
			2388.5	-40.13	-13.01	PASS
			2389.5	-40.16	-13.01	PASS
			2390.5	-39.98	-13.01	PASS
			2391.5	-39.97	-13.01	PASS
			2392.5	-39.95	-13.01	PASS
			2393.5	-39.61	-13.01	PASS
			2394.5	-39.72	-13.01	PASS
			2395.5	-39.39	-13.01	PASS
			2396.5	-39.21	-13.01	PASS
			2397.5	-39.13	-13.01	PASS
			2398.5	-38.50	-13.01	PASS
			2399.5	-38.25	-13.01	PASS
			2484	-41.02	-13.01	PASS
			2485	-41.05	-13.01	PASS
			2486	-41.04	-13.01	PASS
			2487	-41.07	-13.01	PASS
			2488	-41.06	-13.01	PASS
			2489	-41.04	-13.01	PASS
			2490	-41.08	-13.01	PASS
			2491	-41.07	-13.01	PASS
			2492	-41.07	-13.01	PASS
			2493	-41.07	-13.01	PASS
			2494	-41.08	-13.01	PASS
			2495	-41.06	-13.01	PASS
			2496	-41.32	-13.01	PASS
			2497	-41.61	-13.01	PASS
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			2499	-41.12	-13.01	PASS

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			2502	-41.09	-13.01	PASS
			2503	-41.09	-13.01	PASS
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			2519	-41.29	-13.01	PASS
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			2524.396	-41.28	-23.01	PASS
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			2526.396	-41.28	-23.01	PASS
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			2528.396	-41.24	-23.01	PASS
			2529.396	-41.23	-23.01	PASS
			2530.396	-41.26	-23.01	PASS
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			2532.396	-41.26	-23.01	PASS
			2533.396	-41.22	-23.01	PASS
			2534.396	-41.23	-23.01	PASS
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			2540.396	-41.20	-23.01	PASS
			2541.396	-41.21	-23.01	PASS
			2542.396	-41.18	-23.01	PASS

			2543.396	-41.17	-23.01	PASS
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			2545.396	-41.15	-23.01	PASS
			2546.396	-41.13	-23.01	PASS
			2547.396	-41.13	-23.01	PASS
			2548.396	-41.11	-23.01	PASS
			2549.396	-41.10	-23.01	PASS
			2550.396	-40.97	-23.01	PASS
			2551.396	-40.99	-23.01	PASS
			2552.396	-40.96	-23.01	PASS
			2553.396	-40.95	-23.01	PASS
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			2555.396	-40.92	-23.01	PASS
			2555.792	-40.92	-23.01	PASS
	Ant2	2422	2327.696	-41.53	-23.01	PASS
			2328.098	-41.51	-23.01	PASS
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			2330.098	-41.50	-23.01	PASS
			2331.098	-41.49	-23.01	PASS
			2332.098	-41.47	-23.01	PASS
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			2334.098	-41.45	-23.01	PASS
			2335.098	-41.44	-23.01	PASS
			2336.098	-41.42	-23.01	PASS
			2337.098	-41.42	-23.01	PASS
			2338.098	-41.41	-23.01	PASS
			2339.098	-41.40	-23.01	PASS
			2340.098	-41.42	-23.01	PASS
			2341.098	-41.44	-23.01	PASS
			2342.098	-41.43	-23.01	PASS
			2343.098	-41.41	-23.01	PASS
			2344.098	-41.39	-23.01	PASS
			2345.098	-41.37	-23.01	PASS
			2346.098	-41.34	-23.01	PASS
			2347.098	-41.33	-23.01	PASS
			2348.098	-41.32	-23.01	PASS
			2349.098	-41.31	-23.01	PASS
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			2351.098	-41.28	-23.01	PASS
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			2355.098	-41.19	-23.01	PASS
			2356.098	-41.16	-23.01	PASS

			2357.098	-41.15	-23.01	PASS
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			2359.098	-41.37	-23.01	PASS
			2360.098	-41.14	-23.01	PASS
			2361.098	-41.16	-23.01	PASS
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			2367.5	-41.05	-13.01	PASS
			2368.5	-41.02	-13.01	PASS
			2369.5	-40.96	-13.01	PASS
			2370.5	-40.93	-13.01	PASS
			2371.5	-40.84	-13.01	PASS
			2372.5	-40.78	-13.01	PASS
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			2378.5	-40.14	-13.01	PASS
			2379.5	-40.14	-13.01	PASS
			2380.5	-39.94	-13.01	PASS
			2381.5	-39.94	-13.01	PASS
			2382.5	-40.00	-13.01	PASS
			2383.5	-39.82	-13.01	PASS
			2384.5	-39.75	-13.01	PASS
			2385.5	-39.67	-13.01	PASS
			2386.5	-39.74	-13.01	PASS
			2387.5	-39.83	-13.01	PASS
			2388.5	-39.72	-13.01	PASS
			2389.5	-39.75	-13.01	PASS
			2390.5	-39.75	-13.01	PASS
			2391.5	-39.83	-13.01	PASS
			2392.5	-39.82	-13.01	PASS
			2393.5	-39.78	-13.01	PASS
			2394.5	-39.81	-13.01	PASS
			2395.5	-39.63	-13.01	PASS
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			2398.5	-39.32	-13.01	PASS
			2399.5	-38.63	-13.01	PASS

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			2486	-40.99	-13.01	PASS
			2487	-41.00	-13.01	PASS
			2488	-40.97	-13.01	PASS
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			2491	-41.01	-13.01	PASS
			2492	-41.01	-13.01	PASS
			2493	-41.01	-13.01	PASS
			2494	-41.01	-13.01	PASS
			2495	-41.00	-13.01	PASS
			2496	-41.01	-13.01	PASS
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			2503	-40.98	-13.01	PASS
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			2507	-40.93	-13.01	PASS
			2508	-40.91	-13.01	PASS
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			2516	-40.89	-13.01	PASS
			2517	-40.89	-13.01	PASS
			2518	-40.90	-13.01	PASS
			2519	-40.87	-13.01	PASS
			2519.402	-40.87	-13.01	PASS
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			2526.402	-41.20	-23.01	PASS

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			2529.402	-41.19	-23.01	PASS
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			2533.402	-41.18	-23.01	PASS
			2534.402	-41.17	-23.01	PASS
			2535.402	-41.15	-23.01	PASS
			2536.402	-41.17	-23.01	PASS
			2537.402	-41.17	-23.01	PASS
			2538.402	-41.16	-23.01	PASS
			2539.402	-41.15	-23.01	PASS
			2540.402	-41.53	-23.01	PASS
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			2544.402	-41.19	-23.01	PASS
			2545.402	-41.18	-23.01	PASS
			2546.402	-41.18	-23.01	PASS
			2547.402	-41.16	-23.01	PASS
			2548.402	-41.16	-23.01	PASS
			2549.402	-41.14	-23.01	PASS
			2550.402	-41.00	-23.01	PASS
			2551.402	-41.00	-23.01	PASS
			2552.402	-40.99	-23.01	PASS
			2553.402	-40.97	-23.01	PASS
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	Ant1	2462	2327.656	-41.81	-23.01	PASS
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			2330.078	-41.75	-23.01	PASS
			2331.078	-41.76	-23.01	PASS
			2332.078	-41.75	-23.01	PASS
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			2336.078	-41.70	-23.01	PASS
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			2345.078	-41.54	-23.01	PASS
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			2348.078	-41.50	-23.01	PASS
			2349.078	-41.46	-23.01	PASS
			2350.078	-41.45	-23.01	PASS
			2351.078	-41.46	-23.01	PASS
			2352.078	-41.44	-23.01	PASS
			2353.078	-41.43	-23.01	PASS
			2354.078	-41.41	-23.01	PASS
			2355.078	-41.40	-23.01	PASS
			2356.078	-41.39	-23.01	PASS
			2357.078	-41.36	-23.01	PASS
			2358.078	-41.37	-23.01	PASS
			2359.078	-41.34	-23.01	PASS
			2360.078	-41.32	-23.01	PASS
			2361.078	-41.32	-23.01	PASS
			2362.078	-41.33	-23.01	PASS
			2363.078	-41.29	-23.01	PASS
			2364.078	-41.26	-13.01	PASS
			2364.5	-41.28	-13.01	PASS
			2365.5	-41.27	-13.01	PASS
			2366.5	-41.26	-13.01	PASS
			2367.5	-41.23	-13.01	PASS
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			2371.5	-41.23	-13.01	PASS
			2372.5	-41.20	-13.01	PASS
			2373.5	-41.20	-13.01	PASS
			2374.5	-41.19	-13.01	PASS
			2375.5	-41.17	-13.01	PASS
			2376.5	-41.16	-13.01	PASS
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			2378.5	-41.15	-13.01	PASS
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			2380.5	-41.15	-13.01	PASS
			2381.5	-41.16	-13.01	PASS
			2382.5	-41.14	-13.01	PASS
			2383.5	-41.16	-13.01	PASS

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			2386.5	-41.11	-13.01	PASS
			2387.5	-41.12	-13.01	PASS
			2388.5	-41.09	-13.01	PASS
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			2491	-39.71	-13.01	PASS
			2492	-39.62	-13.01	PASS
			2493	-39.88	-13.01	PASS
			2494	-40.07	-13.01	PASS
			2495	-40.06	-13.01	PASS
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			2506	-40.73	-13.01	PASS
			2507	-40.72	-13.01	PASS
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			2509	-40.74	-13.01	PASS
			2510	-40.73	-13.01	PASS
			2511	-40.77	-13.01	PASS

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			2521.422	-40.76	-23.01	PASS
			2522.422	-40.78	-23.01	PASS
			2523.422	-40.78	-23.01	PASS
			2524.422	-40.78	-23.01	PASS
			2525.422	-40.79	-23.01	PASS
			2526.422	-40.80	-23.01	PASS
			2527.422	-40.78	-23.01	PASS
			2528.422	-40.81	-23.01	PASS
			2529.422	-40.80	-23.01	PASS
			2530.422	-40.79	-23.01	PASS
			2531.422	-40.79	-23.01	PASS
			2532.422	-40.79	-23.01	PASS
			2533.422	-40.80	-23.01	PASS
			2534.422	-40.78	-23.01	PASS
			2535.422	-40.79	-23.01	PASS
			2536.422	-40.78	-23.01	PASS
			2537.422	-40.77	-23.01	PASS
			2538.422	-40.76	-23.01	PASS
			2539.422	-40.75	-23.01	PASS
			2540.422	-40.77	-23.01	PASS
			2541.422	-40.73	-23.01	PASS
			2542.422	-41.05	-23.01	PASS
			2543.422	-41.04	-23.01	PASS
			2544.422	-40.98	-23.01	PASS
			2545.422	-40.97	-23.01	PASS
			2546.422	-41.11	-23.01	PASS
			2547.422	-41.41	-23.01	PASS
			2548.422	-40.98	-23.01	PASS
			2549.422	-40.96	-23.01	PASS
			2550.422	-40.86	-23.01	PASS
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			2553.422	-40.83	-23.01	PASS
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	Ant2	2462	2327.662	-41.91	-23.01	PASS
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			2330.081	-41.89	-23.01	PASS
			2331.081	-41.86	-23.01	PASS
			2332.081	-41.87	-23.01	PASS
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			2336.081	-41.84	-23.01	PASS
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			2339.081	-41.80	-23.01	PASS
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			2344.081	-41.72	-23.01	PASS
			2345.081	-41.71	-23.01	PASS
			2346.081	-41.68	-23.01	PASS
			2347.081	-41.69	-23.01	PASS
			2348.081	-41.67	-23.01	PASS
			2349.081	-41.67	-23.01	PASS
			2350.081	-41.65	-23.01	PASS
			2351.081	-41.62	-23.01	PASS
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			2353.081	-41.61	-23.01	PASS
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			2357.081	-41.56	-23.01	PASS
			2358.081	-41.54	-23.01	PASS
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			2361.081	-41.51	-23.01	PASS
			2362.081	-41.55	-23.01	PASS
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			2366.5	-41.45	-13.01	PASS
			2367.5	-41.43	-13.01	PASS

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			2370.5	-41.44	-13.01	PASS
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			2376.5	-41.37	-13.01	PASS
			2377.5	-41.36	-13.01	PASS
			2378.5	-41.36	-13.01	PASS
			2379.5	-41.34	-13.01	PASS
			2380.5	-41.37	-13.01	PASS
			2381.5	-41.36	-13.01	PASS
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			2384.5	-41.35	-13.01	PASS
			2385.5	-41.33	-13.01	PASS
			2386.5	-41.32	-13.01	PASS
			2387.5	-41.30	-13.01	PASS
			2388.5	-41.31	-13.01	PASS
			2389.5	-41.27	-13.01	PASS
			2390.5	-41.26	-13.01	PASS
			2391.5	-41.27	-13.01	PASS
			2392.5	-41.25	-13.01	PASS
			2393.5	-41.24	-13.01	PASS
			2394.5	-41.40	-13.01	PASS
			2395.5	-41.25	-13.01	PASS
			2396.5	-41.21	-13.01	PASS
			2397.5	-41.20	-13.01	PASS
			2398.5	-41.18	-13.01	PASS
			2399.5	-41.15	-13.01	PASS
			2484	-37.42	-13.01	PASS
			2485	-39.01	-13.01	PASS
			2486	-39.23	-13.01	PASS
			2487	-39.40	-13.01	PASS
			2488	-39.52	-13.01	PASS
			2489	-39.45	-13.01	PASS
			2490	-39.51	-13.01	PASS
			2491	-39.60	-13.01	PASS
			2492	-39.81	-13.01	PASS
			2493	-39.95	-13.01	PASS
			2494	-39.97	-13.01	PASS
			2495	-40.10	-13.01	PASS

			2496	-40.17	-13.01	PASS
			2497	-40.21	-13.01	PASS
			2498	-40.22	-13.01	PASS
			2499	-40.30	-13.01	PASS
			2500	-40.27	-13.01	PASS
			2501	-40.37	-13.01	PASS
			2502	-40.39	-13.01	PASS
			2503	-40.38	-13.01	PASS
			2504	-40.45	-13.01	PASS
			2505	-40.43	-13.01	PASS
			2506	-40.45	-13.01	PASS
			2507	-40.50	-13.01	PASS
			2508	-40.50	-13.01	PASS
			2509	-40.51	-13.01	PASS
			2510	-40.54	-13.01	PASS
			2511	-40.56	-13.01	PASS
			2512	-40.57	-13.01	PASS
			2513	-40.59	-13.01	PASS
			2514	-40.61	-13.01	PASS
			2515	-40.61	-13.01	PASS
			2516	-40.63	-13.01	PASS
			2517	-40.63	-13.01	PASS
			2518	-40.65	-13.01	PASS
			2519	-40.64	-13.01	PASS
			2519.419	-40.67	-13.01	PASS
			2520.419	-40.65	-23.01	PASS
			2521.419	-40.66	-23.01	PASS
			2522.419	-40.66	-23.01	PASS
			2523.419	-40.65	-23.01	PASS
			2524.419	-40.65	-23.01	PASS
			2525.419	-40.67	-23.01	PASS
			2526.419	-40.70	-23.01	PASS
			2527.419	-40.69	-23.01	PASS
			2528.419	-40.70	-23.01	PASS
			2529.419	-40.70	-23.01	PASS
			2530.419	-40.68	-23.01	PASS
			2531.419	-40.71	-23.01	PASS
			2532.419	-40.70	-23.01	PASS
			2533.419	-40.70	-23.01	PASS
			2534.419	-40.69	-23.01	PASS
			2535.419	-40.68	-23.01	PASS
			2536.419	-40.68	-23.01	PASS
			2537.419	-40.67	-23.01	PASS
			2538.419	-40.67	-23.01	PASS

			2539.419	-40.68	-23.01	PASS
			2540.419	-40.66	-23.01	PASS
			2541.419	-40.63	-23.01	PASS
			2542.419	-40.62	-23.01	PASS
			2543.419	-40.61	-23.01	PASS
			2544.419	-40.59	-23.01	PASS
			2545.419	-40.86	-23.01	PASS
			2546.419	-40.84	-23.01	PASS
			2547.419	-40.84	-23.01	PASS
			2548.419	-40.82	-23.01	PASS
			2549.419	-40.81	-23.01	PASS
			2550.419	-40.69	-23.01	PASS
			2551.419	-40.68	-23.01	PASS
			2552.419	-40.70	-23.01	PASS
			2553.419	-40.66	-23.01	PASS
			2554.419	-40.65	-23.01	PASS
			2555.419	-40.65	-23.01	PASS
			2555.838	-40.65	-23.01	PASS
11AX20MIMO	Ant1	2412	2364.636	-41.19	-23.01	PASS
			2364.772	-41.16	-23.01	PASS
			2365.636	-41.17	-23.01	PASS
			2366.636	-41.14	-23.01	PASS
			2367.636	-41.13	-23.01	PASS
			2368.636	-41.11	-23.01	PASS
			2369.636	-41.12	-23.01	PASS
			2370.636	-41.13	-23.01	PASS
			2371.636	-41.12	-23.01	PASS
			2372.636	-41.11	-23.01	PASS
			2373.636	-41.08	-23.01	PASS
			2374.636	-41.08	-23.01	PASS
			2375.636	-41.04	-23.01	PASS
			2376.636	-41.02	-23.01	PASS
			2377.636	-41.00	-23.01	PASS
			2378.636	-40.98	-23.01	PASS
			2379.636	-40.97	-23.01	PASS
			2380.636	-40.92	-23.01	PASS
			2381.636	-40.89	-23.01	PASS
			2382.5	-40.89	-13.01	PASS
			2382.636	-40.89	-13.01	PASS
			2383.5	-40.84	-13.01	PASS
			2384.5	-40.83	-13.01	PASS
			2385.5	-40.79	-13.01	PASS
			2386.5	-40.76	-13.01	PASS
			2387.5	-40.73	-13.01	PASS

			2388.5	-40.63	-13.01	PASS
			2389.5	-40.62	-13.01	PASS
			2390.5	-40.47	-13.01	PASS
			2391.5	-40.29	-13.01	PASS
			2392.5	-40.28	-13.01	PASS
			2393.5	-39.77	-13.01	PASS
			2394.5	-39.81	-13.01	PASS
			2395.5	-39.36	-13.01	PASS
			2396.5	-38.99	-13.01	PASS
			2397.5	-38.97	-13.01	PASS
			2398.5	-37.82	-13.01	PASS
			2399.5	-35.64	-13.01	PASS
			2484	-41.44	-13.01	PASS
			2485	-41.45	-13.01	PASS
			2486	-41.44	-13.01	PASS
			2487	-41.42	-13.01	PASS
			2488	-41.42	-13.01	PASS
			2489	-41.44	-13.01	PASS
			2490	-41.42	-13.01	PASS
			2491	-41.44	-13.01	PASS
			2492	-41.43	-13.01	PASS
			2493	-41.43	-13.01	PASS
			2494	-41.42	-13.01	PASS
			2495	-41.43	-13.01	PASS
			2496	-41.41	-13.01	PASS
			2497	-41.41	-13.01	PASS
			2498	-41.40	-13.01	PASS
			2499	-41.42	-13.01	PASS
			2500	-41.38	-13.01	PASS
			2500.864	-41.39	-13.01	PASS
			2501	-41.38	-13.01	PASS
			2501.864	-41.38	-23.01	PASS
			2502.864	-41.38	-23.01	PASS
			2503.864	-41.30	-23.01	PASS
			2504.864	-41.27	-23.01	PASS
			2505.864	-41.29	-23.01	PASS
			2506.864	-41.27	-23.01	PASS
			2507.864	-41.27	-23.01	PASS
			2508.864	-41.27	-23.01	PASS
			2509.864	-41.26	-23.01	PASS
			2510.864	-41.24	-23.01	PASS
			2511.864	-41.26	-23.01	PASS
			2512.864	-41.24	-23.01	PASS
			2513.864	-41.23	-23.01	PASS

			2514.864	-41.22	-23.01	PASS
			2515.864	-41.23	-23.01	PASS
			2516.864	-41.21	-23.01	PASS
			2517.864	-41.22	-23.01	PASS
			2518.728	-41.20	-23.01	PASS
			2518.864	-41.21	-23.01	PASS
	Ant2	2412	2364.654	-41.37	-23.01	PASS
			2364.808	-41.32	-23.01	PASS
			2365.654	-41.34	-23.01	PASS
			2366.654	-41.32	-23.01	PASS
			2367.654	-41.30	-23.01	PASS
			2368.654	-41.28	-23.01	PASS
			2369.654	-41.27	-23.01	PASS
			2370.654	-41.30	-23.01	PASS
			2371.654	-41.25	-23.01	PASS
			2372.654	-41.25	-23.01	PASS
			2373.654	-41.24	-23.01	PASS
			2374.654	-41.19	-23.01	PASS
			2375.654	-41.18	-23.01	PASS
			2376.654	-41.16	-23.01	PASS
			2377.654	-41.11	-23.01	PASS
			2378.654	-41.08	-23.01	PASS
			2379.654	-41.04	-23.01	PASS
			2380.654	-40.98	-23.01	PASS
			2381.654	-40.96	-23.01	PASS
			2382.5	-40.95	-13.01	PASS
			2382.654	-41.12	-13.01	PASS
			2383.5	-40.79	-13.01	PASS
			2384.5	-40.74	-13.01	PASS
			2385.5	-40.71	-13.01	PASS
			2386.5	-40.63	-13.01	PASS
			2387.5	-40.51	-13.01	PASS
			2388.5	-40.43	-13.01	PASS
			2389.5	-40.33	-13.01	PASS
			2390.5	-40.15	-13.01	PASS
			2391.5	-40.06	-13.01	PASS
			2392.5	-39.74	-13.01	PASS
			2393.5	-39.55	-13.01	PASS
			2394.5	-39.23	-13.01	PASS
			2395.5	-38.83	-13.01	PASS
			2396.5	-38.73	-13.01	PASS
			2397.5	-38.35	-13.01	PASS
			2398.5	-37.90	-13.01	PASS
			2399.5	-35.50	-13.01	PASS

			2484	-41.29	-13.01	PASS
			2485	-41.28	-13.01	PASS
			2486	-41.28	-13.01	PASS
			2487	-41.28	-13.01	PASS
			2488	-41.28	-13.01	PASS
			2489	-41.27	-13.01	PASS
			2490	-41.26	-13.01	PASS
			2491	-41.32	-13.01	PASS
			2492	-41.29	-13.01	PASS
			2493	-41.30	-13.01	PASS
			2494	-41.29	-13.01	PASS
			2495	-41.30	-13.01	PASS
			2496	-41.29	-13.01	PASS
			2497	-41.30	-13.01	PASS
			2498	-41.29	-13.01	PASS
			2499	-41.29	-13.01	PASS
			2500	-41.28	-13.01	PASS
			2500.846	-41.28	-13.01	PASS
			2501	-41.30	-13.01	PASS
			2501.846	-41.27	-23.01	PASS
			2502.846	-41.23	-23.01	PASS
			2503.846	-41.16	-23.01	PASS
			2504.846	-41.15	-23.01	PASS
			2505.846	-41.14	-23.01	PASS
			2506.846	-41.12	-23.01	PASS
			2507.846	-41.14	-23.01	PASS
			2508.846	-41.13	-23.01	PASS
			2509.846	-41.12	-23.01	PASS
			2510.846	-41.12	-23.01	PASS
			2511.846	-41.14	-23.01	PASS
			2512.846	-41.11	-23.01	PASS
			2513.846	-41.12	-23.01	PASS
			2514.846	-41.11	-23.01	PASS
			2515.846	-41.09	-23.01	PASS
			2516.846	-41.10	-23.01	PASS
			2517.846	-41.09	-23.01	PASS
			2518.692	-41.08	-23.01	PASS
			2518.846	-41.10	-23.01	PASS
	Ant1	2472	2364.641	-41.42	-23.01	PASS
			2364.782	-41.40	-23.01	PASS
			2365.641	-41.40	-23.01	PASS
			2366.641	-41.39	-23.01	PASS
			2367.641	-41.38	-23.01	PASS
			2368.641	-41.38	-23.01	PASS

			2369.641	-41.37	-23.01	PASS
			2370.641	-41.39	-23.01	PASS
			2371.641	-41.40	-23.01	PASS
			2372.641	-41.40	-23.01	PASS
			2373.641	-41.37	-23.01	PASS
			2374.641	-41.38	-23.01	PASS
			2375.641	-41.35	-23.01	PASS
			2376.641	-41.36	-23.01	PASS
			2377.641	-41.34	-23.01	PASS
			2378.641	-41.35	-23.01	PASS
			2379.641	-41.31	-23.01	PASS
			2380.641	-41.32	-23.01	PASS
			2381.641	-41.33	-23.01	PASS
			2382.5	-41.33	-13.01	PASS
			2382.641	-41.34	-13.01	PASS
			2383.5	-41.33	-13.01	PASS
			2384.5	-41.31	-13.01	PASS
			2385.5	-41.31	-13.01	PASS
			2386.5	-41.30	-13.01	PASS
			2387.5	-41.29	-13.01	PASS
			2388.5	-41.27	-13.01	PASS
			2389.5	-41.26	-13.01	PASS
			2390.5	-41.28	-13.01	PASS
			2391.5	-41.25	-13.01	PASS
			2392.5	-41.26	-13.01	PASS
			2393.5	-41.24	-13.01	PASS
			2394.5	-41.25	-13.01	PASS
			2395.5	-41.23	-13.01	PASS
			2396.5	-41.22	-13.01	PASS
			2397.5	-41.23	-13.01	PASS
			2398.5	-41.21	-13.01	PASS
			2399.5	-41.20	-13.01	PASS
			2484	-31.48	-13.01	PASS
			2485	-37.94	-13.01	PASS
			2486	-37.93	-13.01	PASS
			2487	-38.74	-13.01	PASS
			2488	-39.03	-13.01	PASS
			2489	-39.33	-13.01	PASS
			2490	-39.87	-13.01	PASS
			2491	-39.86	-13.01	PASS
			2492	-40.27	-13.01	PASS
			2493	-40.35	-13.01	PASS
			2494	-40.45	-13.01	PASS
			2495	-40.60	-13.01	PASS

			2496	-40.63	-13.01	PASS
			2497	-40.68	-13.01	PASS
			2498	-40.71	-13.01	PASS
			2499	-40.72	-13.01	PASS
			2500	-40.72	-13.01	PASS
			2500.859	-40.74	-13.01	PASS
			2501	-40.73	-13.01	PASS
			2501.859	-40.78	-23.01	PASS
			2502.859	-40.78	-23.01	PASS
			2503.859	-40.78	-23.01	PASS
			2504.859	-40.80	-23.01	PASS
			2505.859	-40.81	-23.01	PASS
			2506.859	-40.83	-23.01	PASS
			2507.859	-40.82	-23.01	PASS
			2508.859	-40.84	-23.01	PASS
			2509.859	-40.84	-23.01	PASS
			2510.859	-40.83	-23.01	PASS
			2511.859	-40.84	-23.01	PASS
			2512.859	-40.85	-23.01	PASS
			2513.859	-40.86	-23.01	PASS
			2514.859	-40.85	-23.01	PASS
			2515.859	-40.86	-23.01	PASS
			2516.859	-40.87	-23.01	PASS
			2517.859	-40.86	-23.01	PASS
			2518.718	-40.88	-23.01	PASS
			2518.859	-40.85	-23.01	PASS
	Ant2	2472	2364.654	-41.60	-23.01	PASS
			2364.808	-41.62	-23.01	PASS
			2365.654	-41.58	-23.01	PASS
			2366.654	-41.58	-23.01	PASS
			2367.654	-41.58	-23.01	PASS
			2368.654	-41.57	-23.01	PASS
			2369.654	-41.55	-23.01	PASS
			2370.654	-41.59	-23.01	PASS
			2371.654	-41.58	-23.01	PASS
			2372.654	-41.57	-23.01	PASS
			2373.654	-41.54	-23.01	PASS
			2374.654	-41.55	-23.01	PASS
			2375.654	-41.54	-23.01	PASS
			2376.654	-41.54	-23.01	PASS
			2377.654	-41.53	-23.01	PASS
			2378.654	-41.53	-23.01	PASS
			2379.654	-41.51	-23.01	PASS
			2380.654	-41.52	-23.01	PASS

			2381.654	-41.52	-23.01	PASS
			2382.5	-41.52	-13.01	PASS
			2382.654	-41.51	-13.01	PASS
			2383.5	-41.52	-13.01	PASS
			2384.5	-41.51	-13.01	PASS
			2385.5	-41.49	-13.01	PASS
			2386.5	-41.50	-13.01	PASS
			2387.5	-41.48	-13.01	PASS
			2388.5	-41.47	-13.01	PASS
			2389.5	-41.47	-13.01	PASS
			2390.5	-41.47	-13.01	PASS
			2391.5	-41.47	-13.01	PASS
			2392.5	-41.46	-13.01	PASS
			2393.5	-41.60	-13.01	PASS
			2394.5	-41.64	-13.01	PASS
			2395.5	-41.34	-13.01	PASS
			2396.5	-41.35	-13.01	PASS
			2397.5	-41.34	-13.01	PASS
			2398.5	-41.33	-13.01	PASS
			2399.5	-41.32	-13.01	PASS
			2484	-31.96	-13.01	PASS
			2485	-37.21	-13.01	PASS
			2486	-38.10	-13.01	PASS
			2487	-38.02	-13.01	PASS
			2488	-38.62	-13.01	PASS
			2489	-39.03	-13.01	PASS
			2490	-39.23	-13.01	PASS
			2491	-39.70	-13.01	PASS
			2492	-39.75	-13.01	PASS
			2493	-40.04	-13.01	PASS
			2494	-40.11	-13.01	PASS
			2495	-40.21	-13.01	PASS
			2496	-40.34	-13.01	PASS
			2497	-40.34	-13.01	PASS
			2498	-40.42	-13.01	PASS
			2499	-40.46	-13.01	PASS
			2500	-40.50	-13.01	PASS
			2500.846	-40.51	-13.01	PASS
			2501	-40.51	-13.01	PASS
			2501.846	-40.55	-23.01	PASS
			2502.846	-40.57	-23.01	PASS
			2503.846	-40.61	-23.01	PASS
			2504.846	-40.78	-23.01	PASS
			2505.846	-40.67	-23.01	PASS

			2506.846	-40.68	-23.01	PASS
			2507.846	-40.68	-23.01	PASS
			2508.846	-40.71	-23.01	PASS
			2509.846	-40.72	-23.01	PASS
			2510.846	-40.72	-23.01	PASS
			2511.846	-40.71	-23.01	PASS
			2512.846	-40.71	-23.01	PASS
			2513.846	-40.72	-23.01	PASS
			2514.846	-41.05	-23.01	PASS
			2515.846	-41.05	-23.01	PASS
			2516.846	-41.03	-23.01	PASS
			2517.846	-41.05	-23.01	PASS
			2518.692	-41.07	-23.01	PASS
			2518.846	-41.07	-23.01	PASS
11AX40MIMO	Ant1	2422	2327.664	-41.42	-23.01	PASS
			2328.082	-41.40	-23.01	PASS
			2329.082	-41.39	-23.01	PASS
			2330.082	-41.39	-23.01	PASS
			2331.082	-41.36	-23.01	PASS
			2332.082	-41.34	-23.01	PASS
			2333.082	-41.34	-23.01	PASS
			2334.082	-41.32	-23.01	PASS
			2335.082	-41.31	-23.01	PASS
			2336.082	-41.29	-23.01	PASS
			2337.082	-41.29	-23.01	PASS
			2338.082	-41.27	-23.01	PASS
			2339.082	-41.30	-23.01	PASS
			2340.082	-41.27	-23.01	PASS
			2341.082	-41.28	-23.01	PASS
			2342.082	-41.27	-23.01	PASS
			2343.082	-41.27	-23.01	PASS
			2344.082	-41.23	-23.01	PASS
			2345.082	-41.23	-23.01	PASS
			2346.082	-41.22	-23.01	PASS
			2347.082	-41.18	-23.01	PASS
			2348.082	-41.17	-23.01	PASS
			2349.082	-41.18	-23.01	PASS
			2350.082	-41.14	-23.01	PASS
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			2364.082	-40.91	-13.01	PASS
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			2554.434	-40.95	-23.01	PASS
			2555.434	-40.95	-23.01	PASS
			2555.868	-40.95	-23.01	PASS
	Ant2	2462	2327.684	-42.02	-23.01	PASS
			2328.092	-42.02	-23.01	PASS
			2329.092	-42.01	-23.01	PASS
			2330.092	-42.01	-23.01	PASS
			2331.092	-42.01	-23.01	PASS
			2332.092	-41.98	-23.01	PASS
			2333.092	-41.97	-23.01	PASS
			2334.092	-41.96	-23.01	PASS
			2335.092	-41.96	-23.01	PASS
			2336.092	-41.94	-23.01	PASS
			2337.092	-41.95	-23.01	PASS
			2338.092	-41.90	-23.01	PASS
			2339.092	-41.92	-23.01	PASS
			2340.092	-41.93	-23.01	PASS
			2341.092	-41.93	-23.01	PASS
			2342.092	-41.91	-23.01	PASS
			2343.092	-41.89	-23.01	PASS
			2344.092	-41.85	-23.01	PASS
			2345.092	-41.86	-23.01	PASS
			2346.092	-41.82	-23.01	PASS
			2347.092	-41.83	-23.01	PASS
			2348.092	-41.82	-23.01	PASS
			2349.092	-41.80	-23.01	PASS
			2350.092	-41.78	-23.01	PASS
			2351.092	-41.77	-23.01	PASS
			2352.092	-41.75	-23.01	PASS

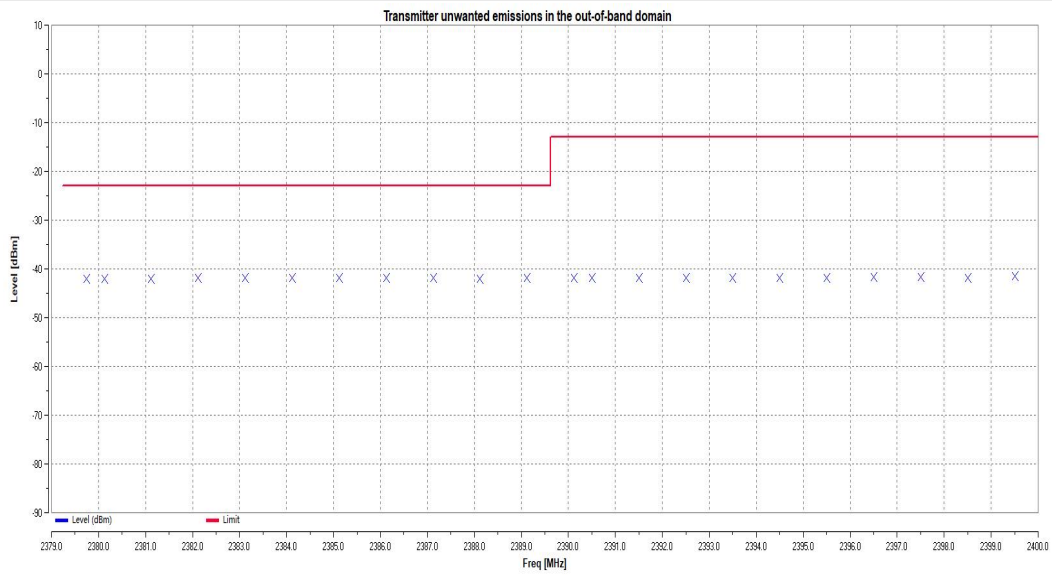
			2353.092	-41.74	-23.01	PASS
			2354.092	-41.74	-23.01	PASS
			2355.092	-41.73	-23.01	PASS
			2356.092	-41.71	-23.01	PASS
			2357.092	-41.69	-23.01	PASS
			2358.092	-41.69	-23.01	PASS
			2359.092	-41.67	-23.01	PASS
			2360.092	-41.64	-23.01	PASS
			2361.092	-41.66	-23.01	PASS
			2362.092	-41.68	-23.01	PASS
			2363.092	-41.62	-23.01	PASS
			2364.092	-41.63	-13.01	PASS
			2364.5	-41.61	-13.01	PASS
			2365.5	-41.61	-13.01	PASS
			2366.5	-41.60	-13.01	PASS
			2367.5	-41.58	-13.01	PASS
			2368.5	-41.58	-13.01	PASS
			2369.5	-41.56	-13.01	PASS
			2370.5	-41.59	-13.01	PASS
			2371.5	-41.64	-13.01	PASS
			2372.5	-1000.00	-13.01	PASS
			2373.5	-41.57	-13.01	PASS
			2374.5	-41.50	-13.01	PASS
			2375.5	-41.51	-13.01	PASS
			2376.5	-41.51	-13.01	PASS
			2377.5	-41.47	-13.01	PASS
			2378.5	-41.48	-13.01	PASS
			2379.5	-41.46	-13.01	PASS
			2380.5	-41.48	-13.01	PASS
			2381.5	-41.46	-13.01	PASS
			2382.5	-41.47	-13.01	PASS
			2383.5	-41.47	-13.01	PASS
			2384.5	-41.44	-13.01	PASS
			2385.5	-41.45	-13.01	PASS
			2386.5	-41.44	-13.01	PASS
			2387.5	-41.42	-13.01	PASS
			2388.5	-41.39	-13.01	PASS
			2389.5	-41.39	-13.01	PASS
			2390.5	-41.39	-13.01	PASS
			2391.5	-41.36	-13.01	PASS
			2392.5	-41.39	-13.01	PASS
			2393.5	-41.36	-13.01	PASS
			2394.5	-41.34	-13.01	PASS
			2395.5	-41.31	-13.01	PASS

			2396.5	-41.30	-13.01	PASS
			2397.5	-41.29	-13.01	PASS
			2398.5	-41.28	-13.01	PASS
			2399.5	-41.27	-13.01	PASS
			2484	-36.14	-13.01	PASS
			2485	-38.16	-13.01	PASS
			2486	-38.71	-13.01	PASS
			2487	-38.57	-13.01	PASS
			2488	-39.02	-13.01	PASS
			2489	-39.01	-13.01	PASS
			2490	-39.03	-13.01	PASS
			2491	-39.38	-13.01	PASS
			2492	-39.36	-13.01	PASS
			2493	-39.63	-13.01	PASS
			2494	-39.83	-13.01	PASS
			2495	-39.80	-13.01	PASS
			2496	-39.95	-13.01	PASS
			2497	-40.05	-13.01	PASS
			2498	-40.07	-13.01	PASS
			2499	-40.12	-13.01	PASS
			2500	-40.20	-13.01	PASS
			2501	-40.30	-13.01	PASS
			2502	-40.28	-13.01	PASS
			2503	-40.34	-13.01	PASS
			2504	-40.39	-13.01	PASS
			2505	-40.40	-13.01	PASS
			2506	-40.44	-13.01	PASS
			2507	-40.48	-13.01	PASS
			2508	-40.53	-13.01	PASS
			2509	-40.55	-13.01	PASS
			2510	-40.57	-13.01	PASS
			2511	-40.58	-13.01	PASS
			2512	-40.61	-13.01	PASS
			2513	-40.64	-13.01	PASS
			2514	-40.66	-13.01	PASS
			2515	-40.69	-13.01	PASS
			2516	-40.71	-13.01	PASS
			2517	-40.74	-13.01	PASS
			2518	-41.04	-13.01	PASS
			2519	-41.05	-13.01	PASS
			2519.408	-41.05	-13.01	PASS
			2520.408	-41.08	-23.01	PASS
			2521.408	-41.07	-23.01	PASS
			2522.408	-41.11	-23.01	PASS

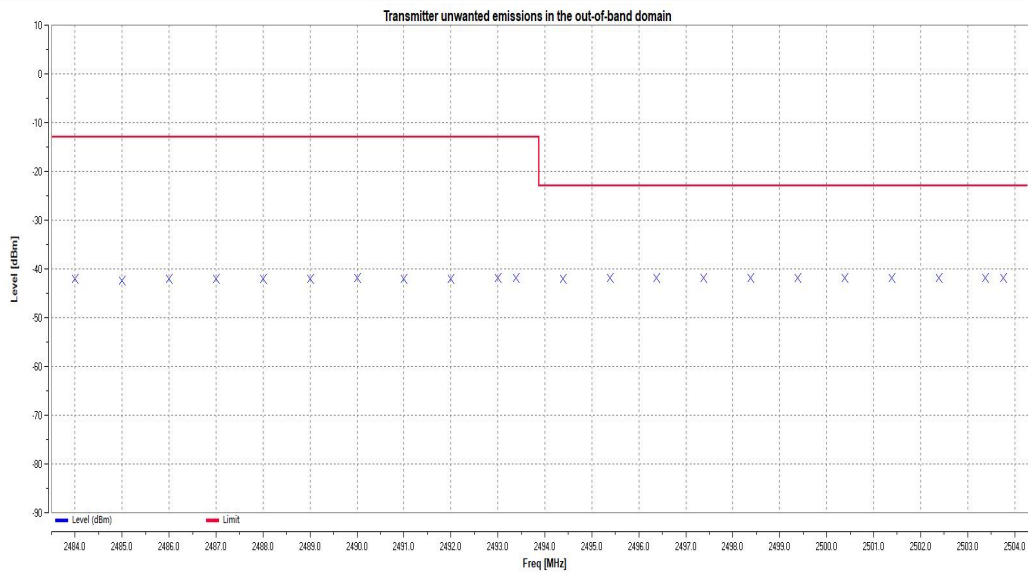
			2523.408	-41.07	-23.01	PASS
			2524.408	-41.10	-23.01	PASS
			2525.408	-41.11	-23.01	PASS
			2526.408	-41.12	-23.01	PASS
			2527.408	-41.15	-23.01	PASS
			2528.408	-41.14	-23.01	PASS
			2529.408	-41.13	-23.01	PASS
			2530.408	-41.14	-23.01	PASS
			2531.408	-41.16	-23.01	PASS
			2532.408	-41.15	-23.01	PASS
			2533.408	-41.13	-23.01	PASS
			2534.408	-41.13	-23.01	PASS
			2535.408	-41.16	-23.01	PASS
			2536.408	-41.12	-23.01	PASS
			2537.408	-41.13	-23.01	PASS
			2538.408	-41.13	-23.01	PASS
			2539.408	-41.13	-23.01	PASS
			2540.408	-41.12	-23.01	PASS
			2541.408	-41.11	-23.01	PASS
			2542.408	-41.10	-23.01	PASS
			2543.408	-41.10	-23.01	PASS
			2544.408	-41.03	-23.01	PASS
			2545.408	-41.06	-23.01	PASS
			2546.408	-41.01	-23.01	PASS
			2547.408	-41.00	-23.01	PASS
			2548.408	-40.98	-23.01	PASS
			2549.408	-40.97	-23.01	PASS
			2550.408	-40.86	-23.01	PASS
			2551.408	-40.84	-23.01	PASS
			2552.408	-40.83	-23.01	PASS
			2553.408	-40.83	-23.01	PASS
			2554.408	-40.82	-23.01	PASS
			2555.408	-41.15	-23.01	PASS
			2555.816	-40.82	-23.01	PASS

3.5.5.2 Test Graphs

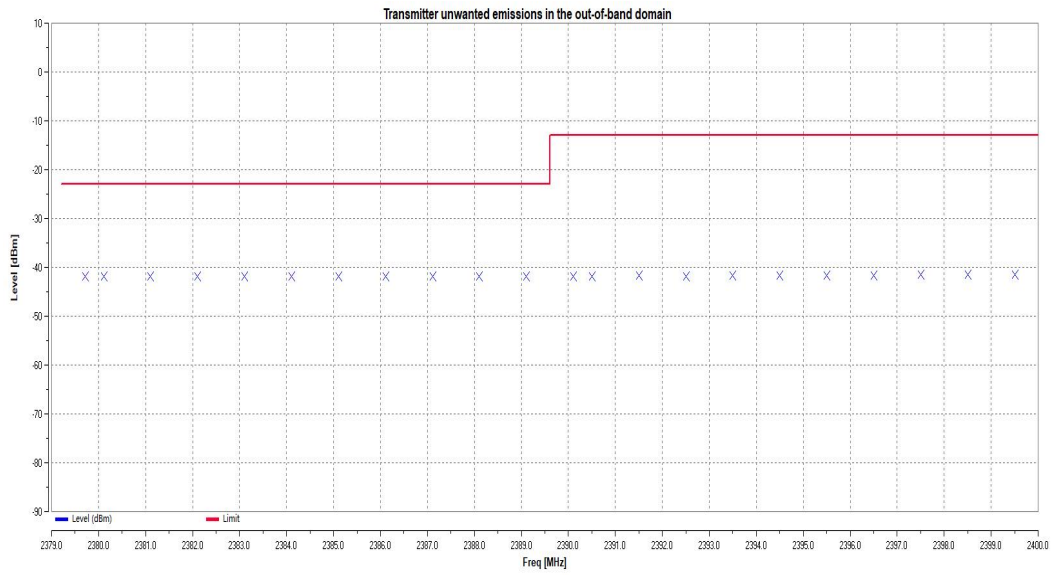
11B-CDD_Ant1_2412_2400MHz-2BW to 2400MHz



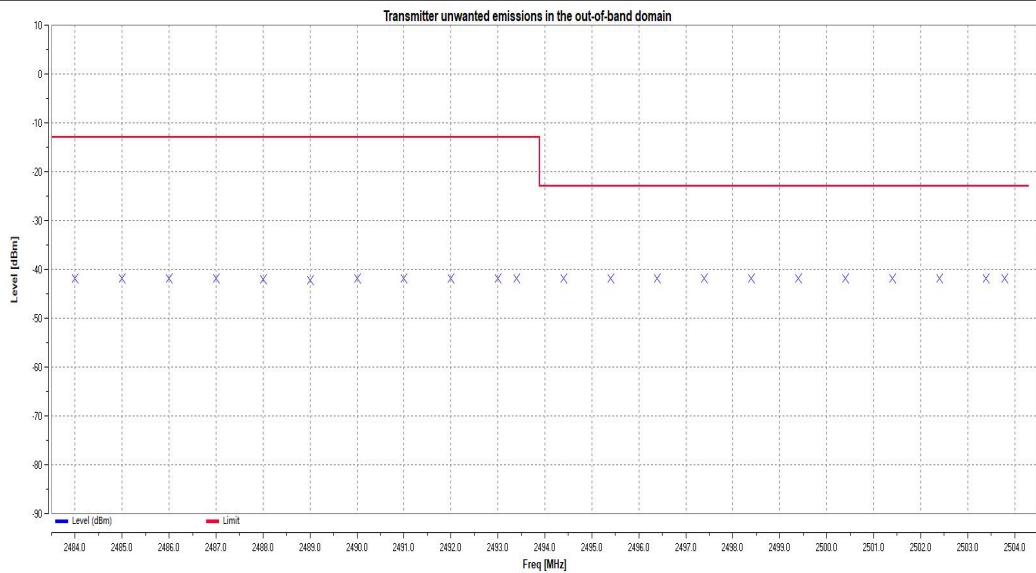
11B-CDD_Ant1_2412_2483.5MHz to 2483.5MHz+2BW



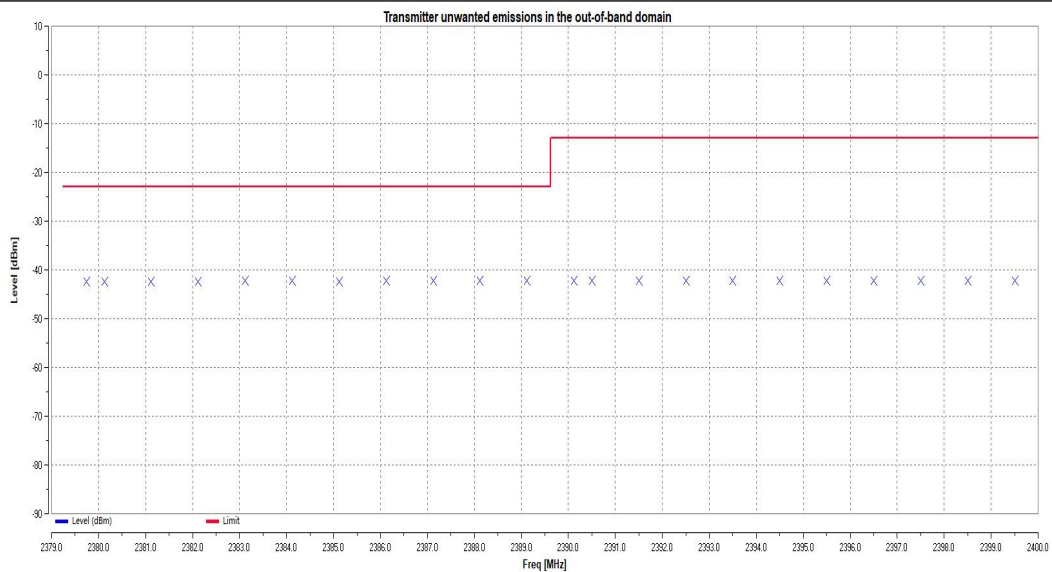
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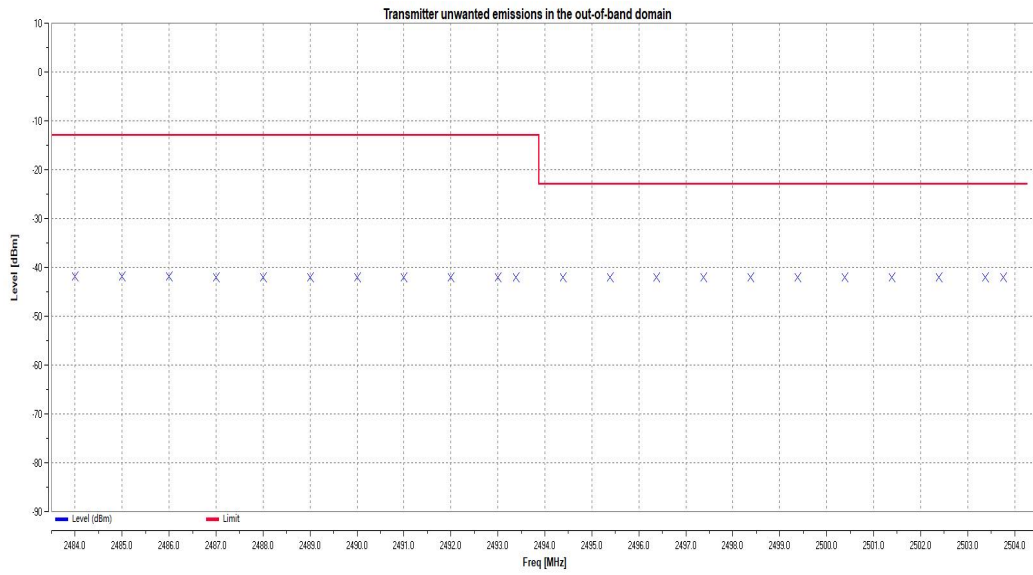
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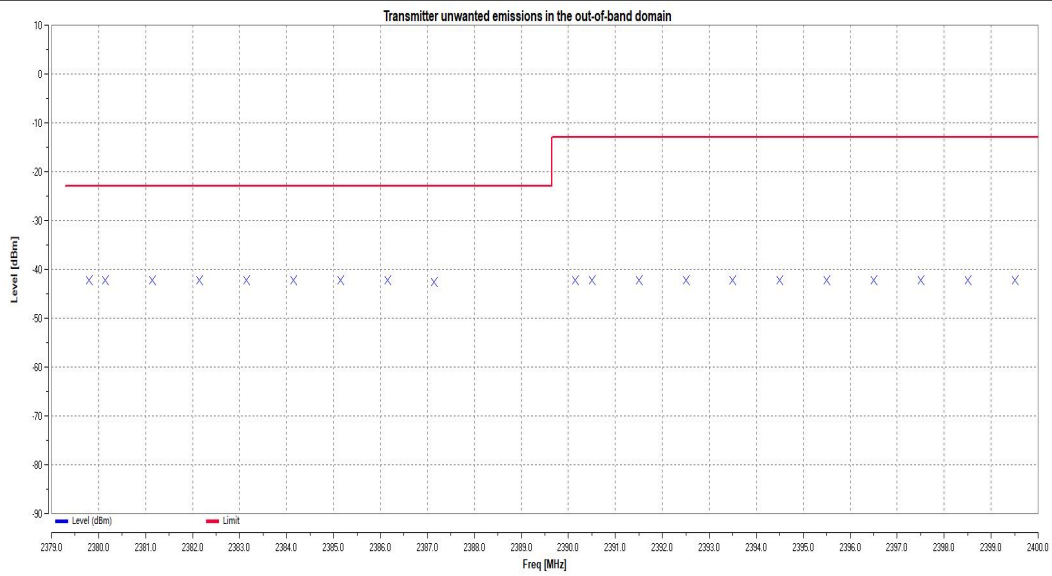
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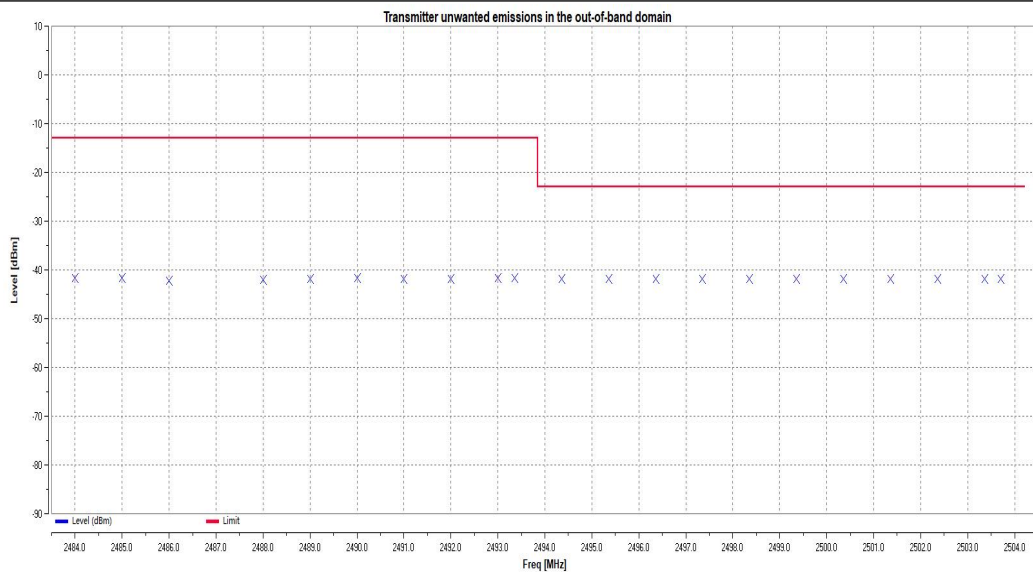
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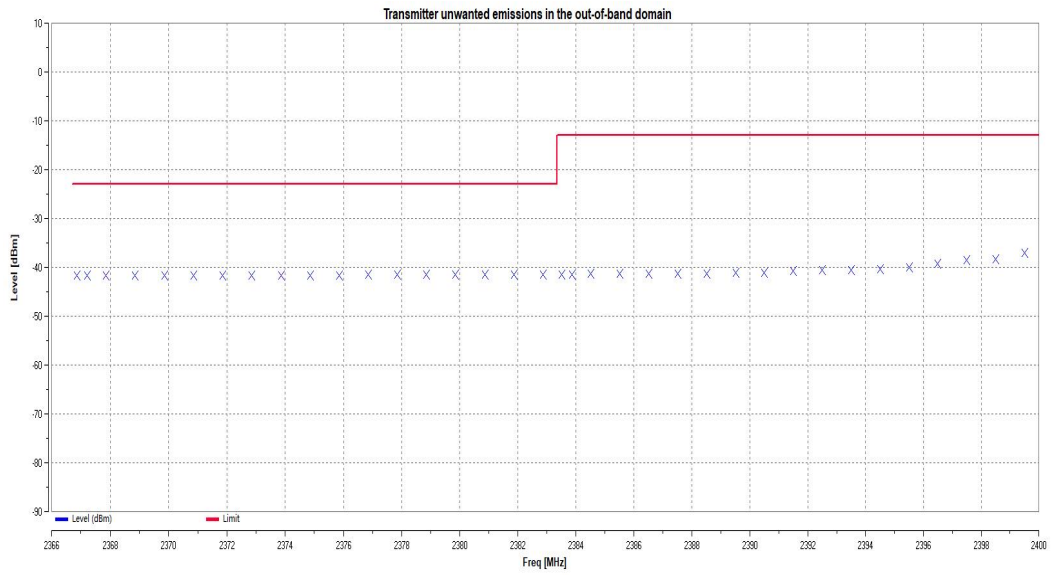
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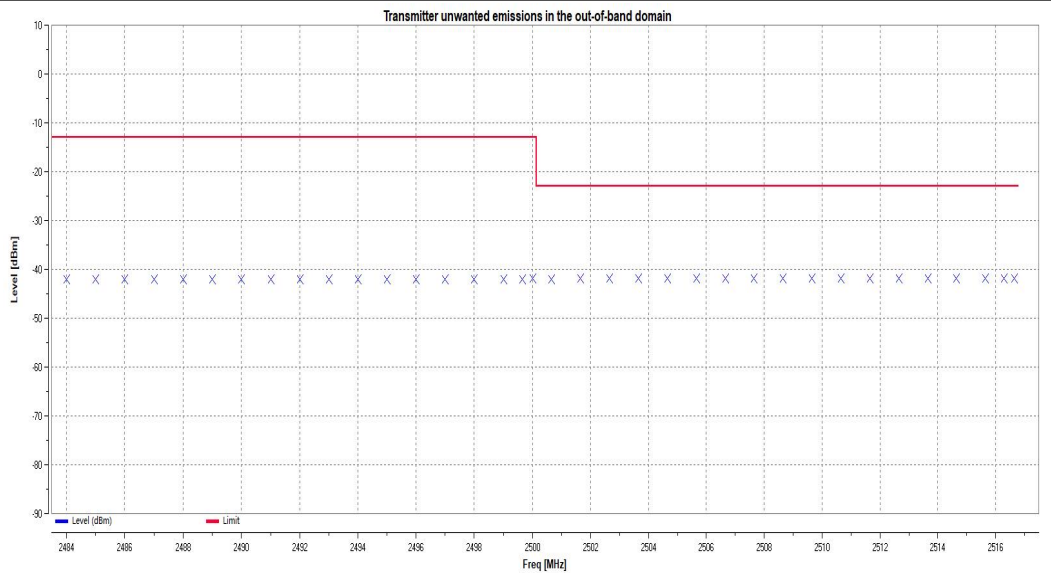
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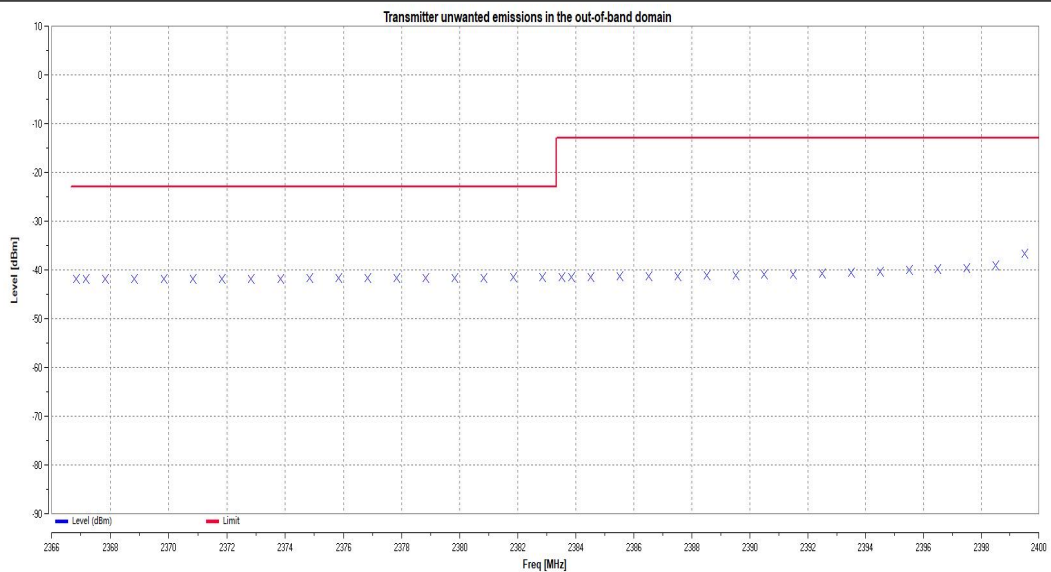
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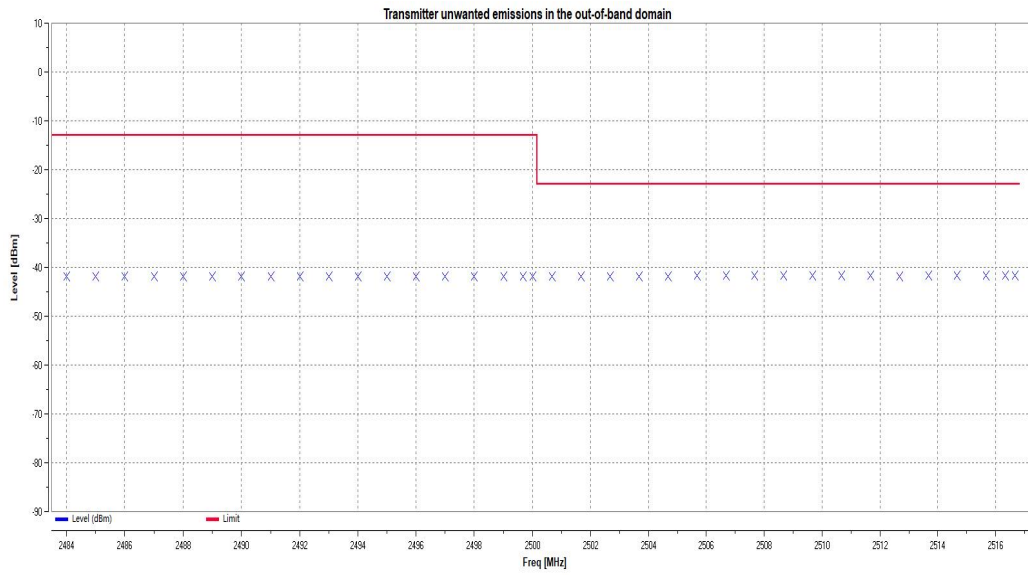
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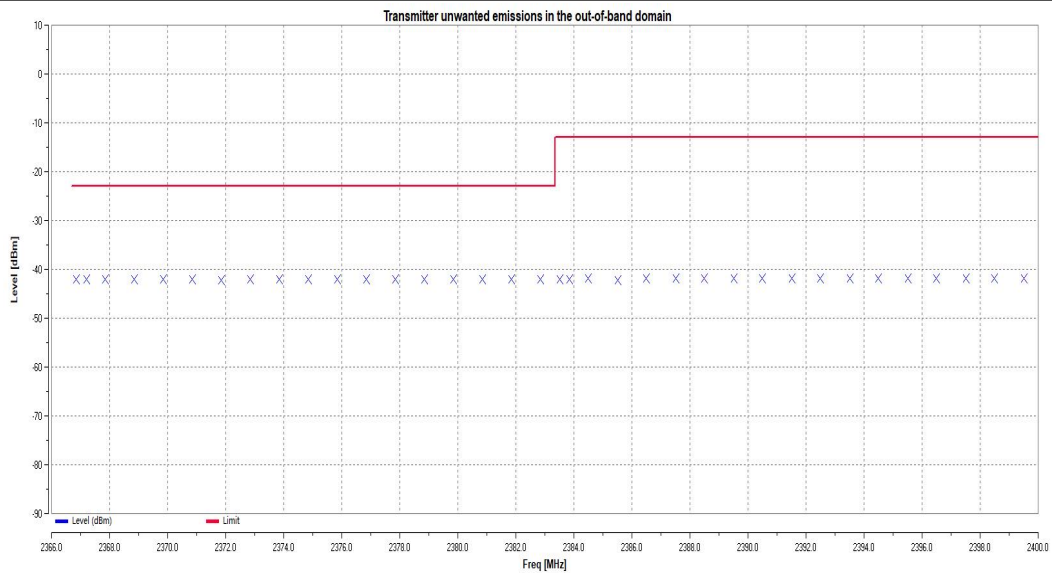
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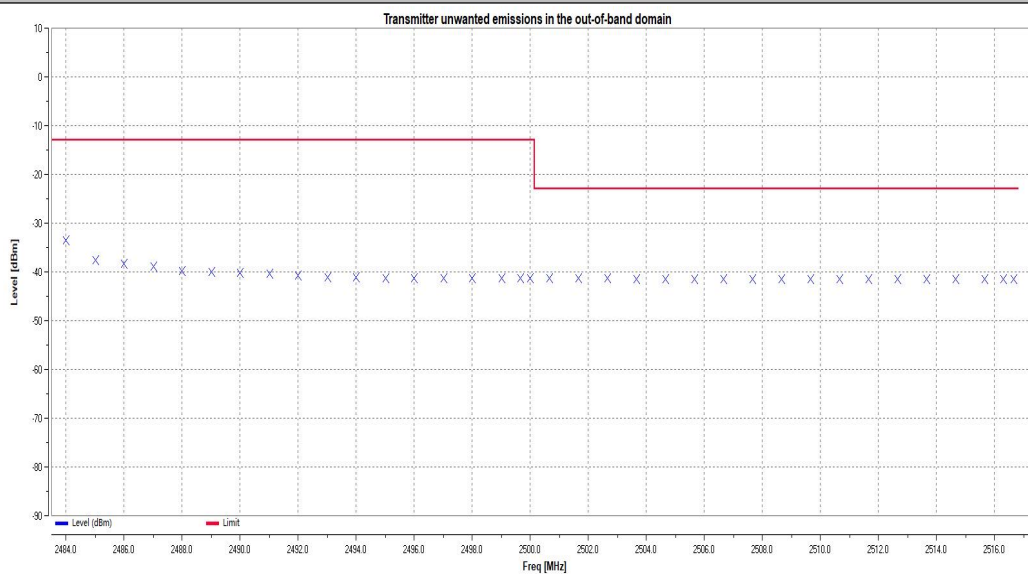
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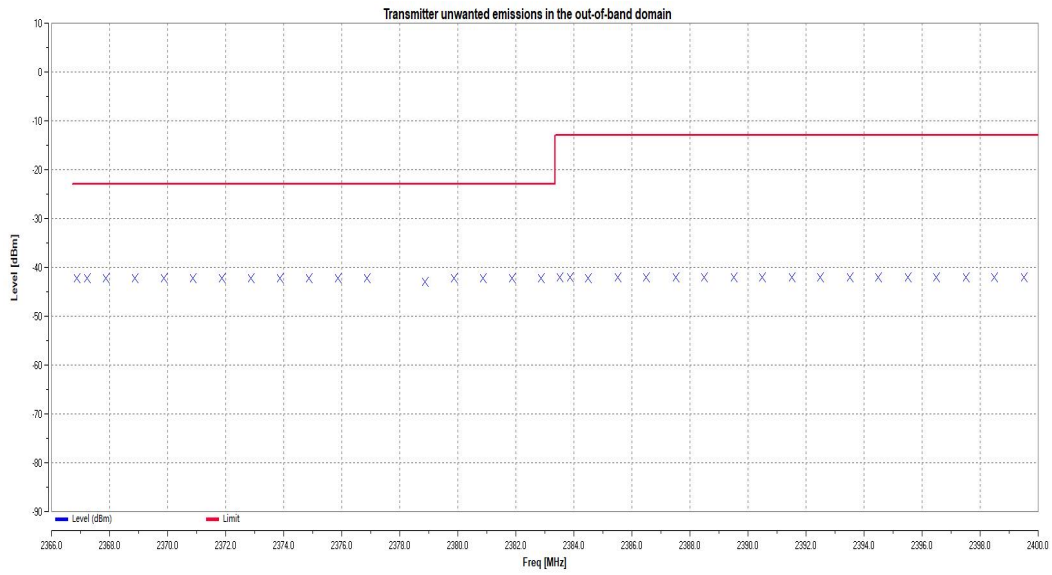
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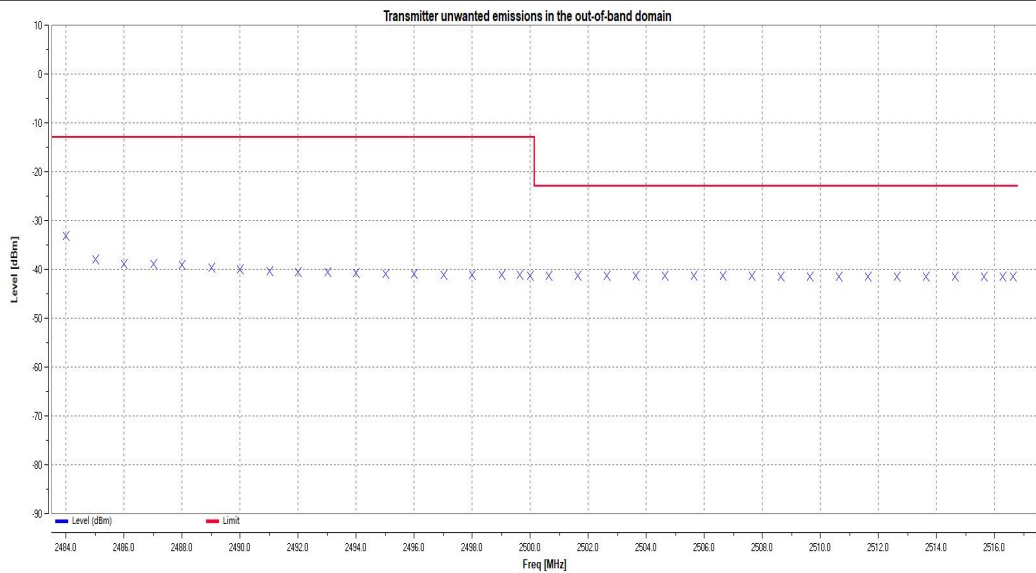
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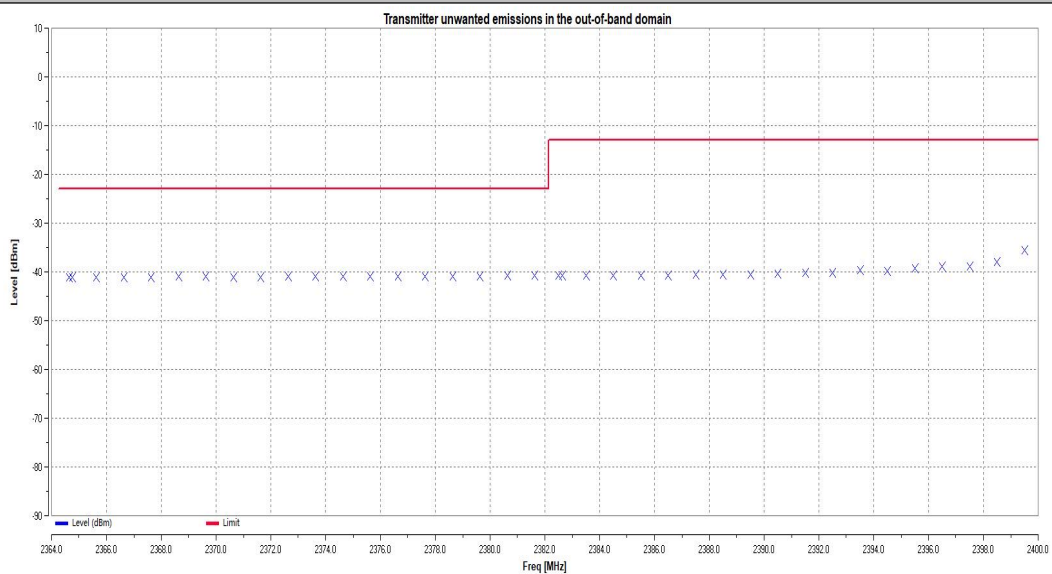
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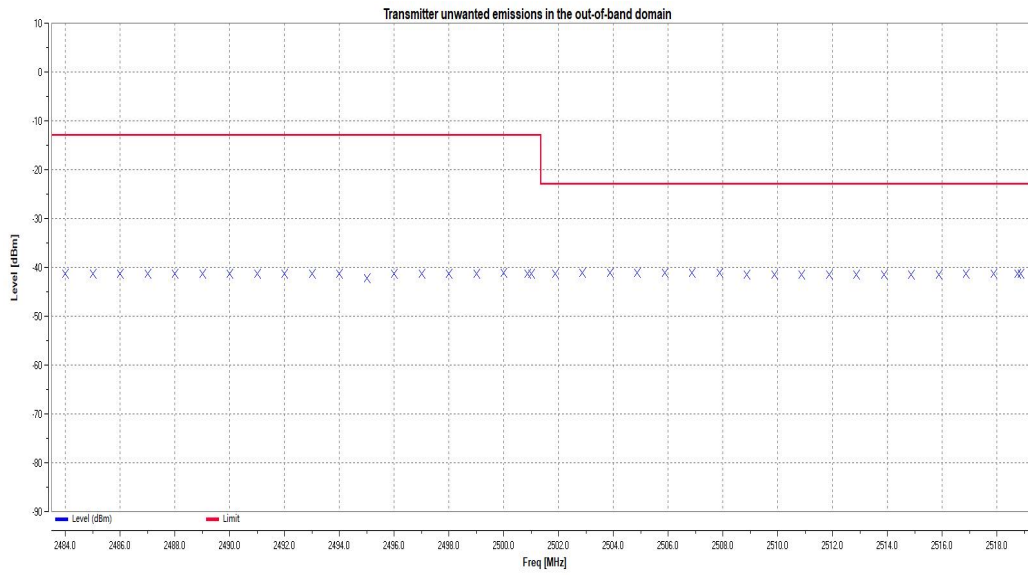
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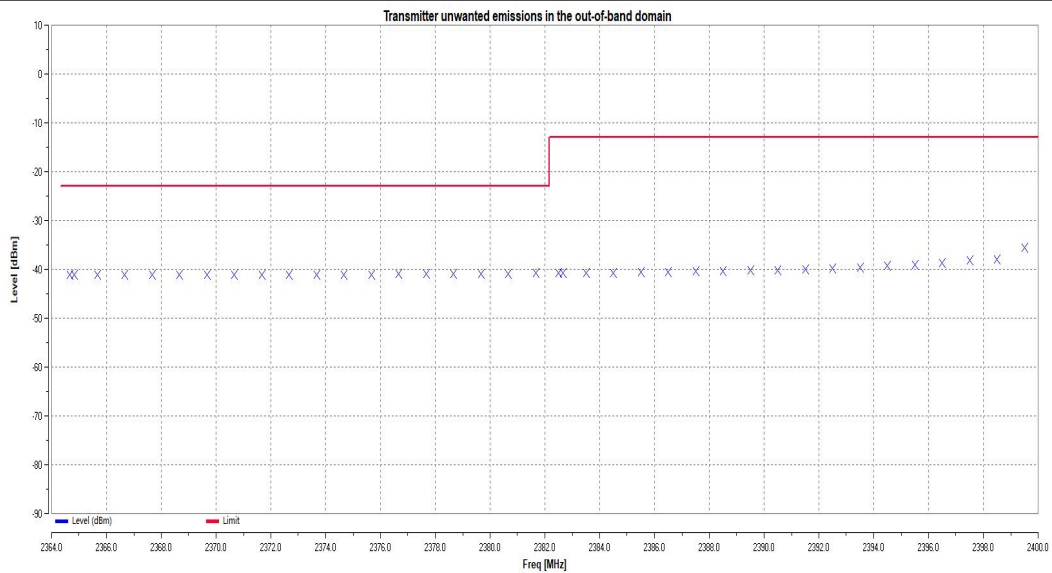
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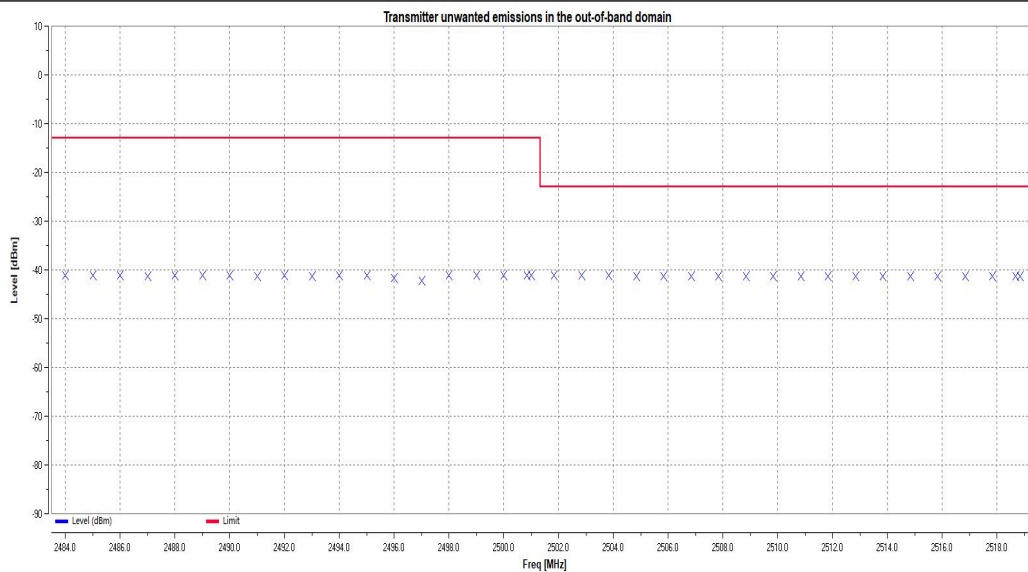
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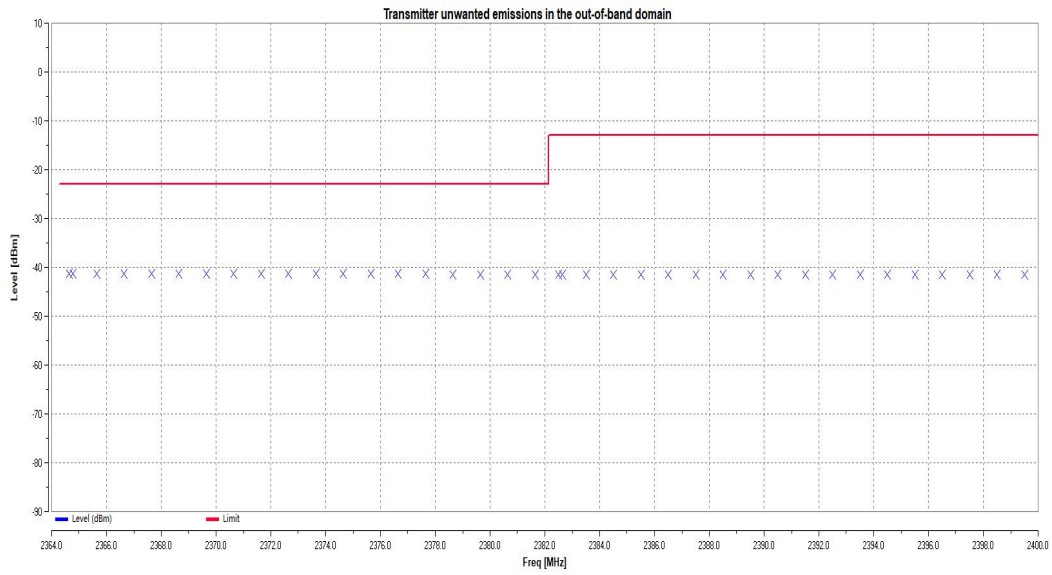
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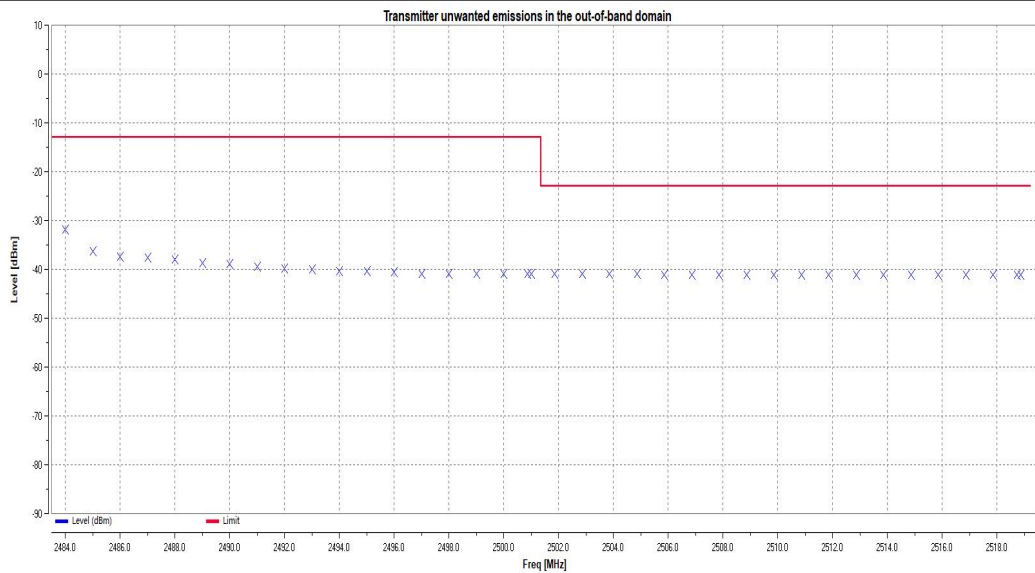
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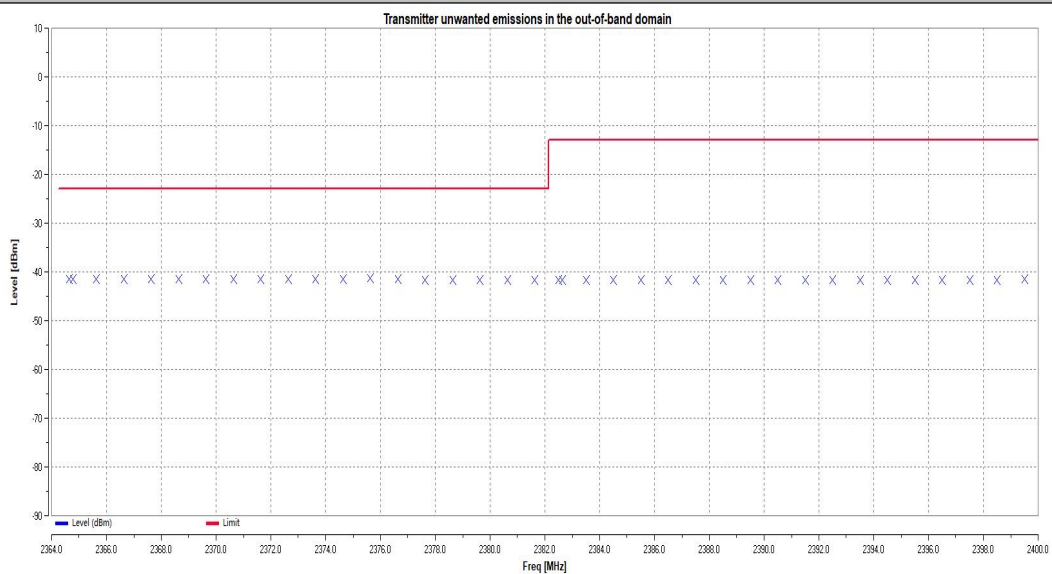
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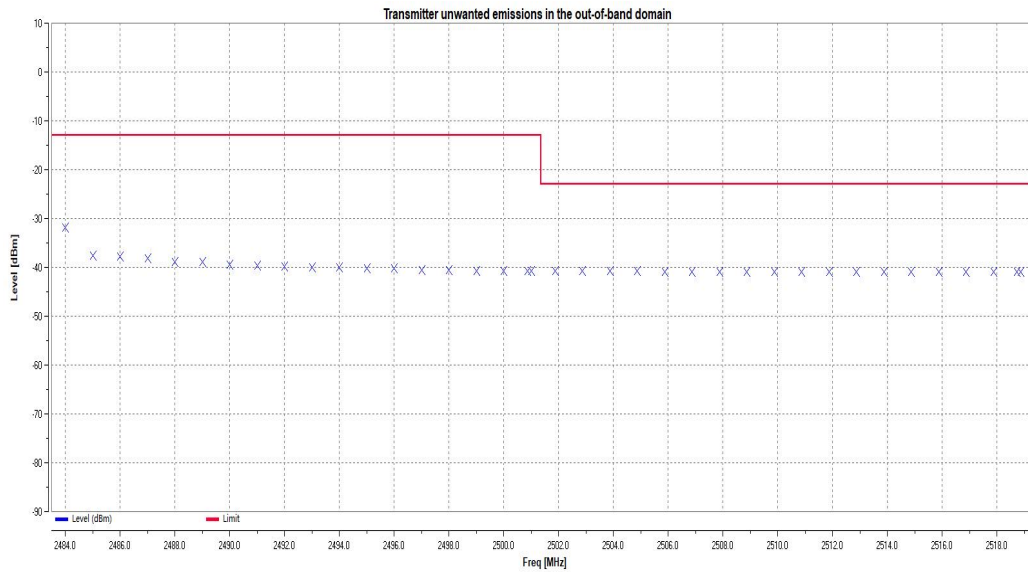
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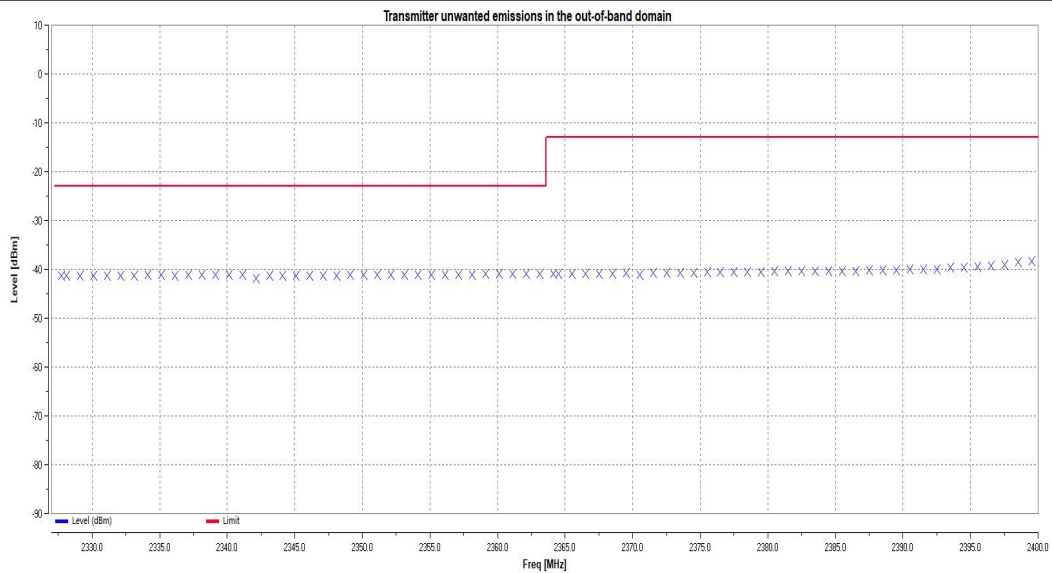
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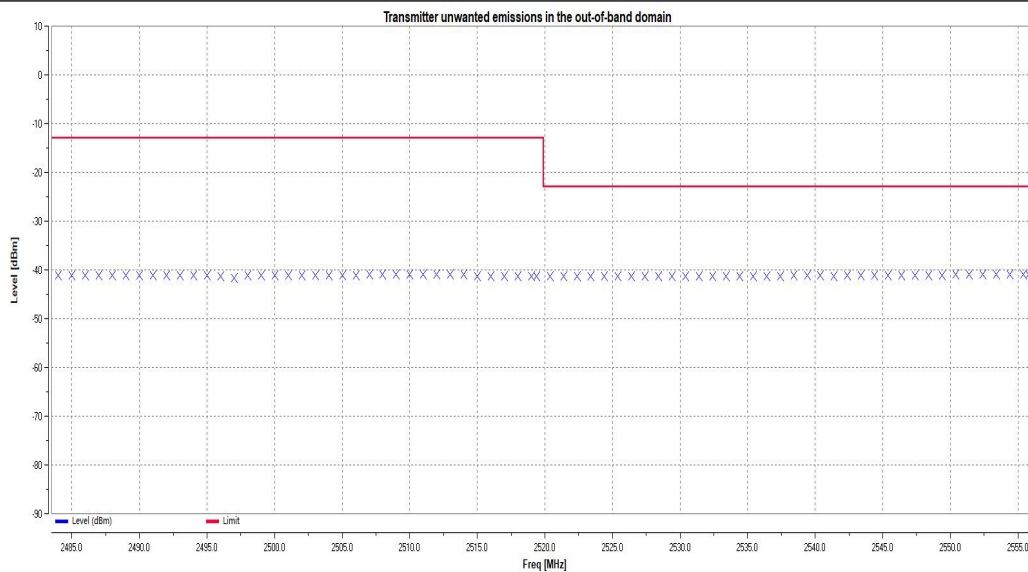
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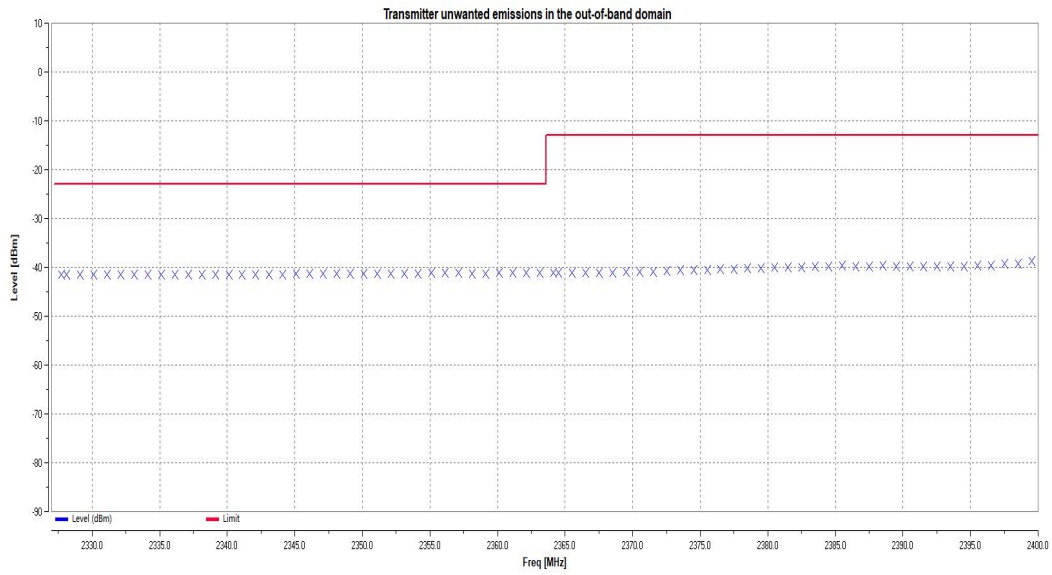
11N40MIMO_Ant1_2422_2400MHz-2BW to 2400MHz



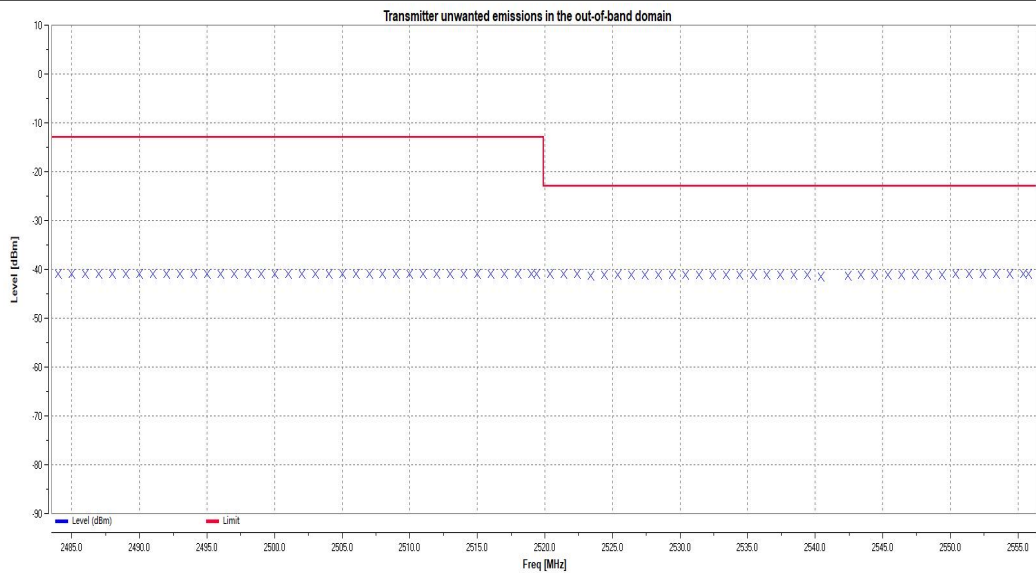
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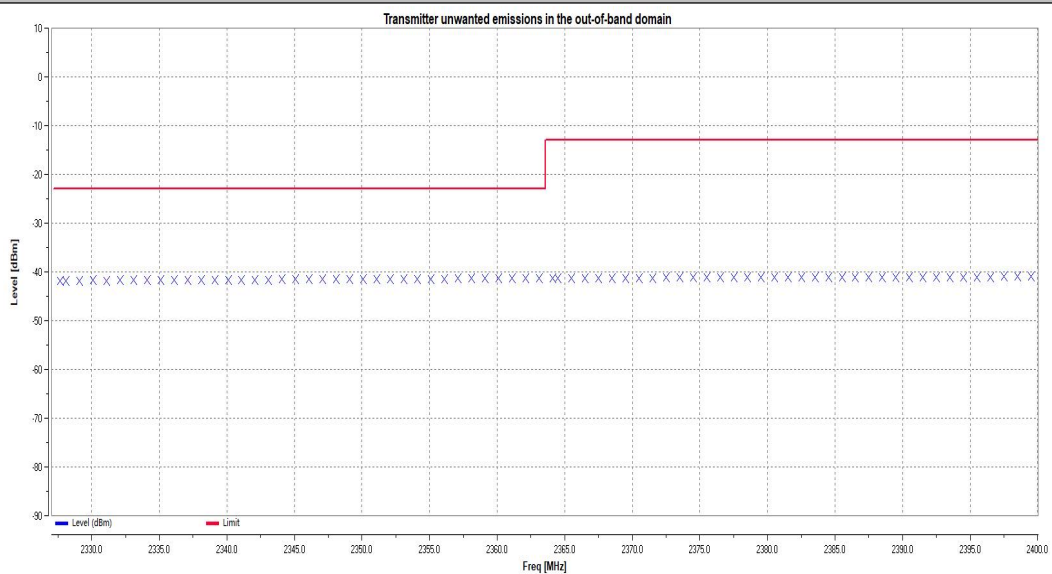
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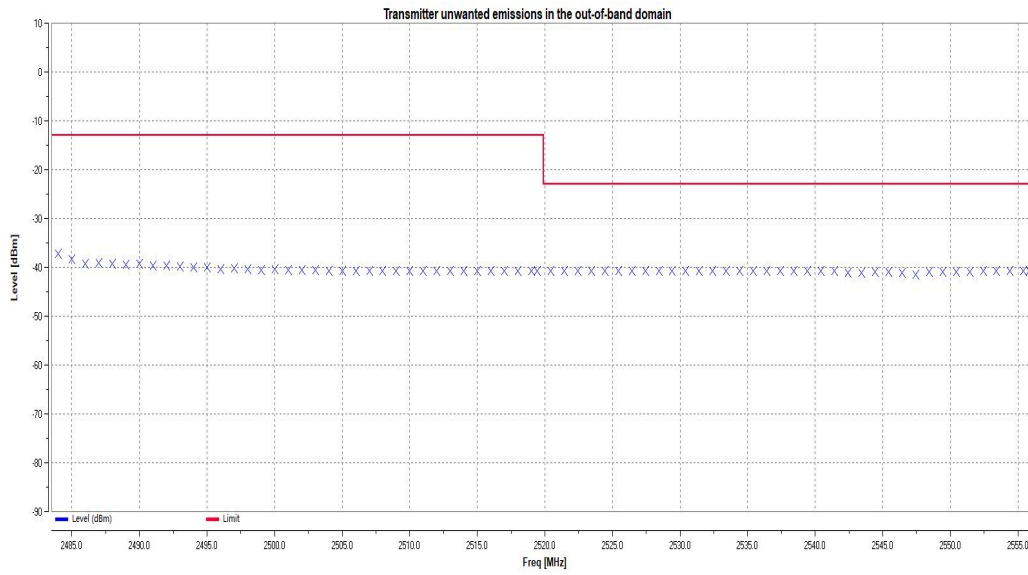
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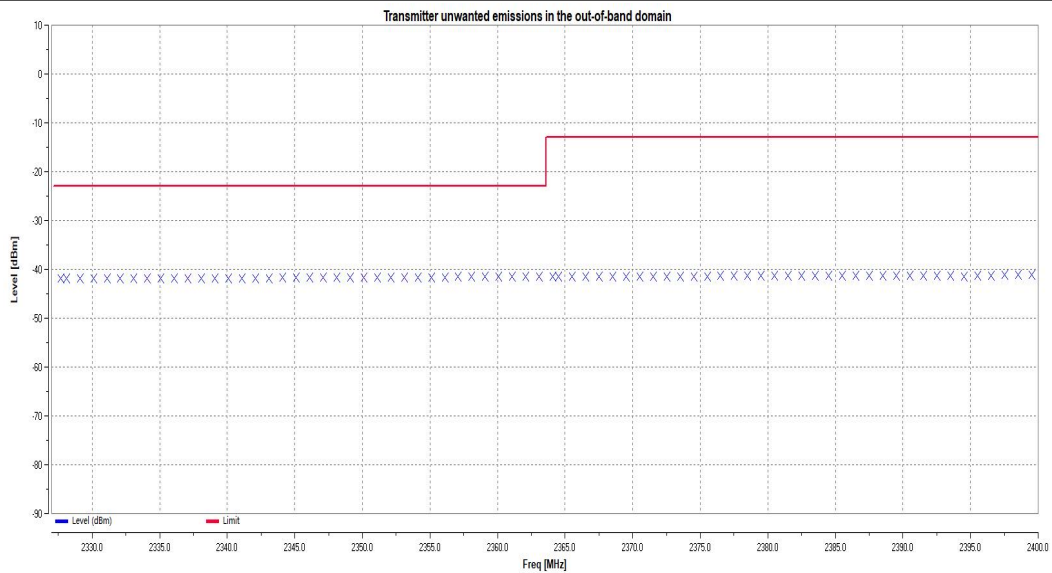
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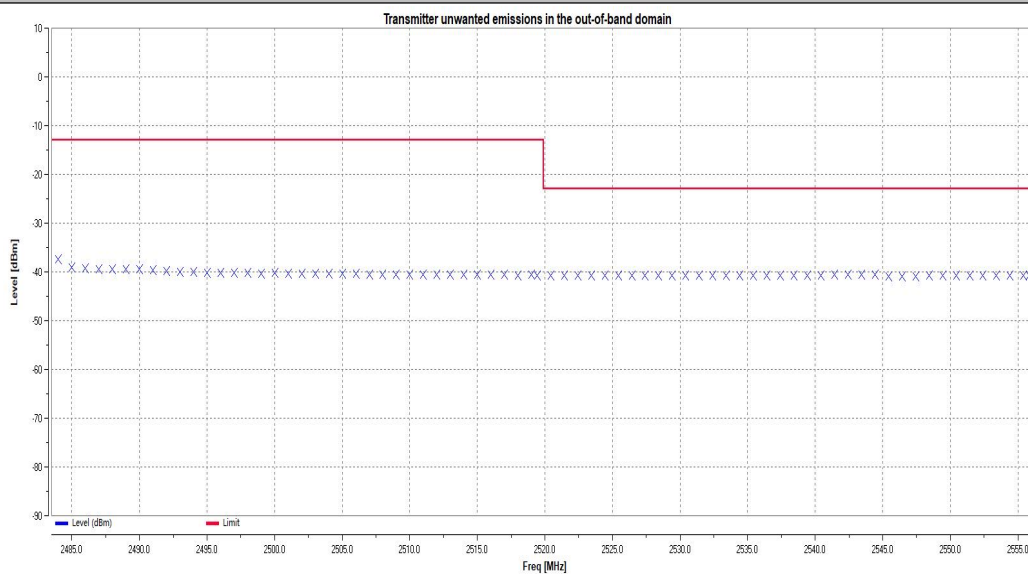
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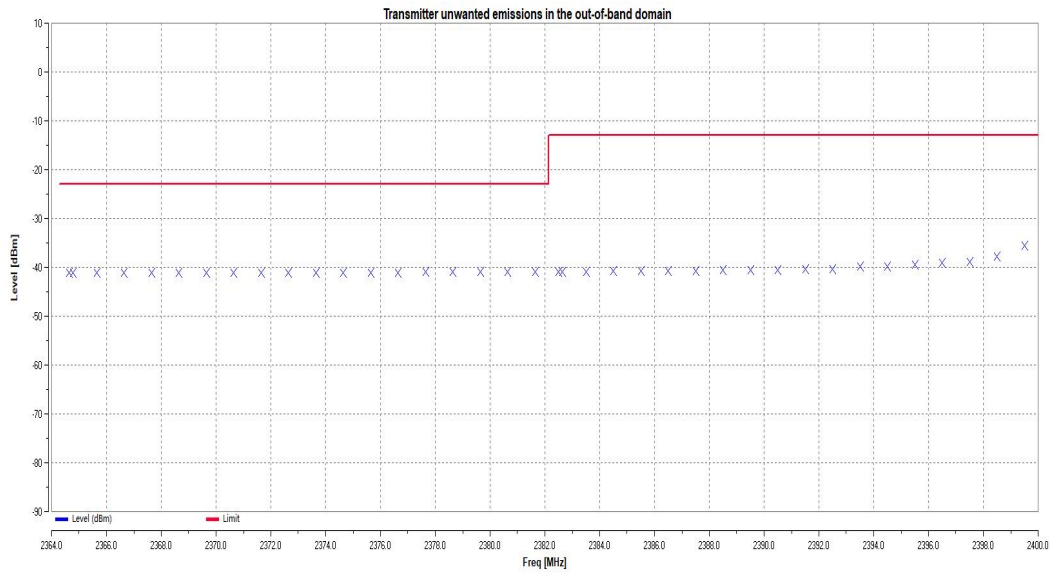
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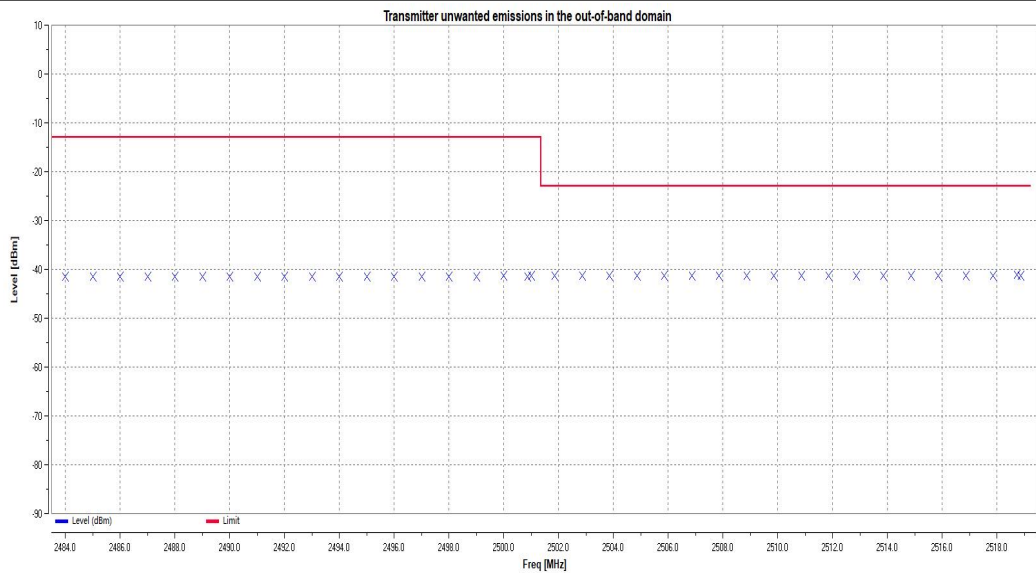
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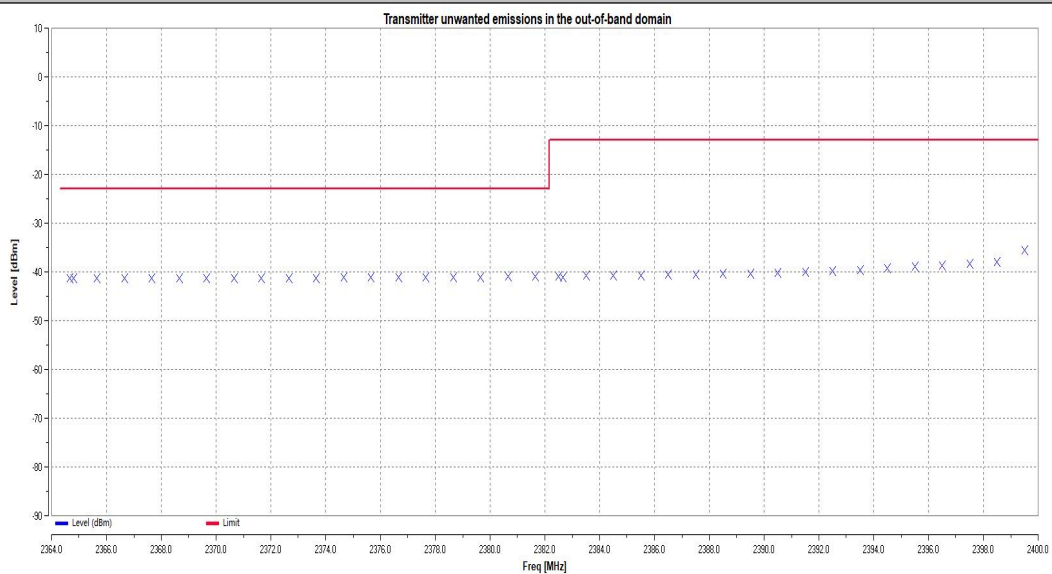
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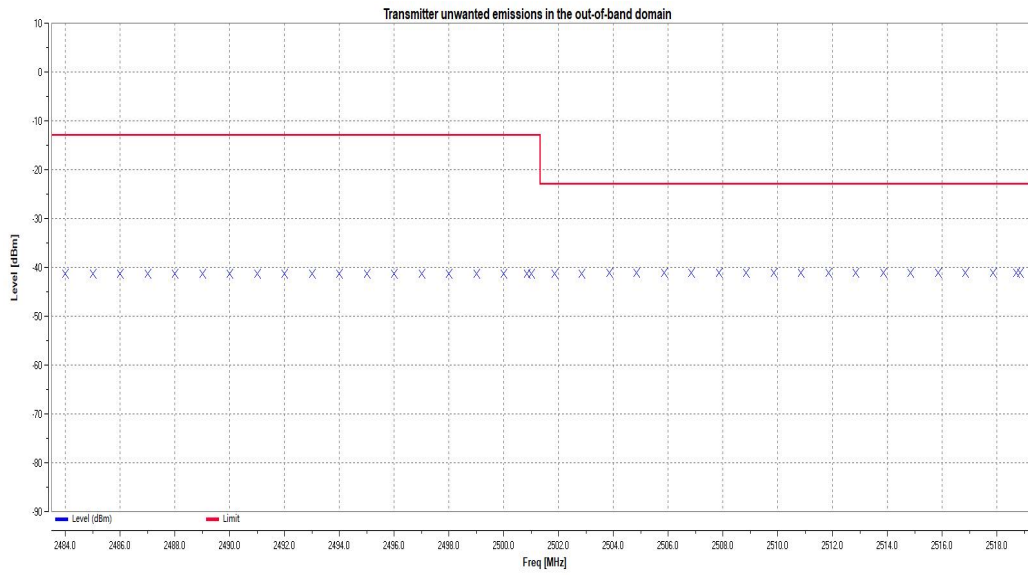
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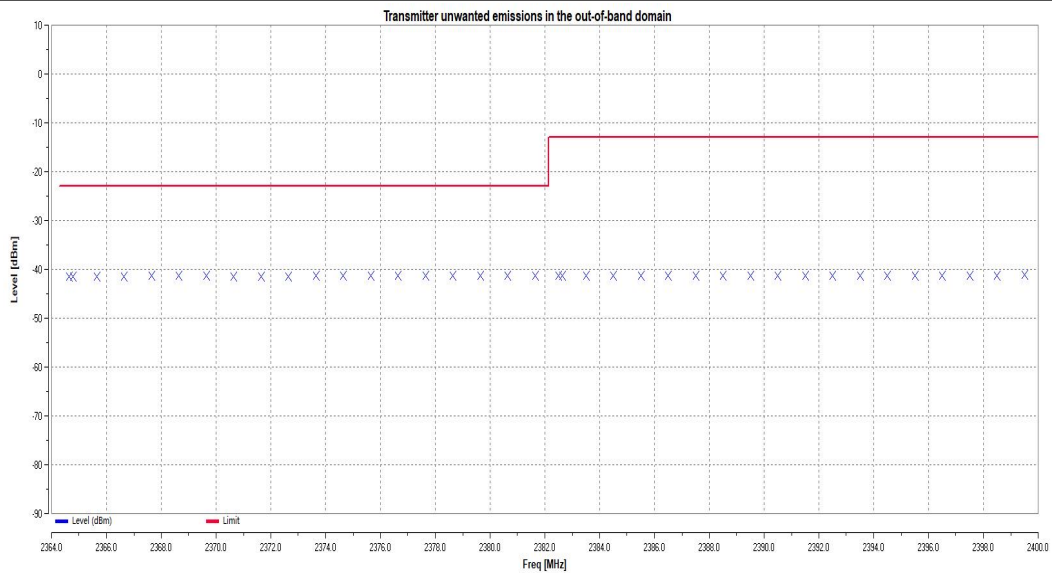
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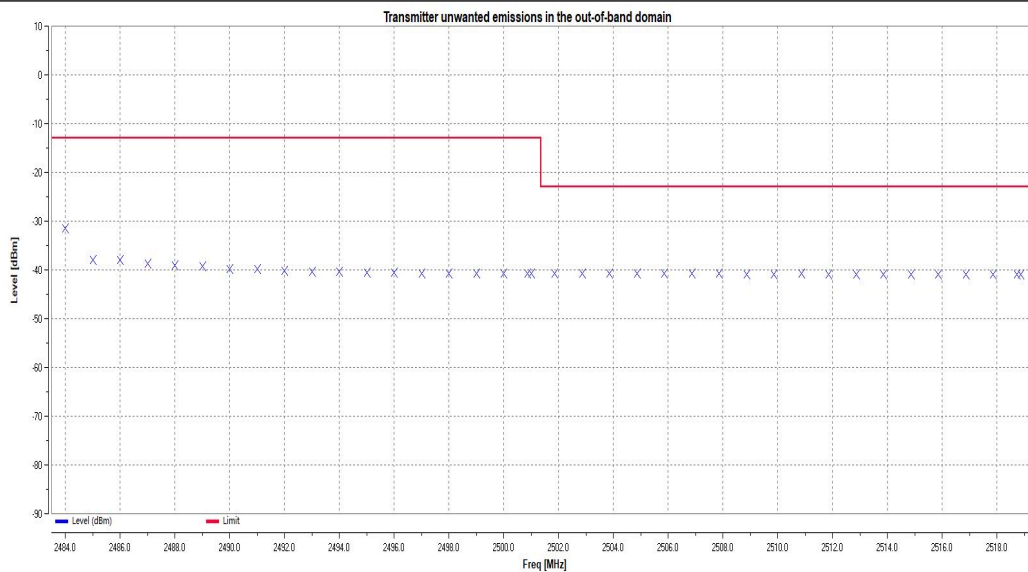
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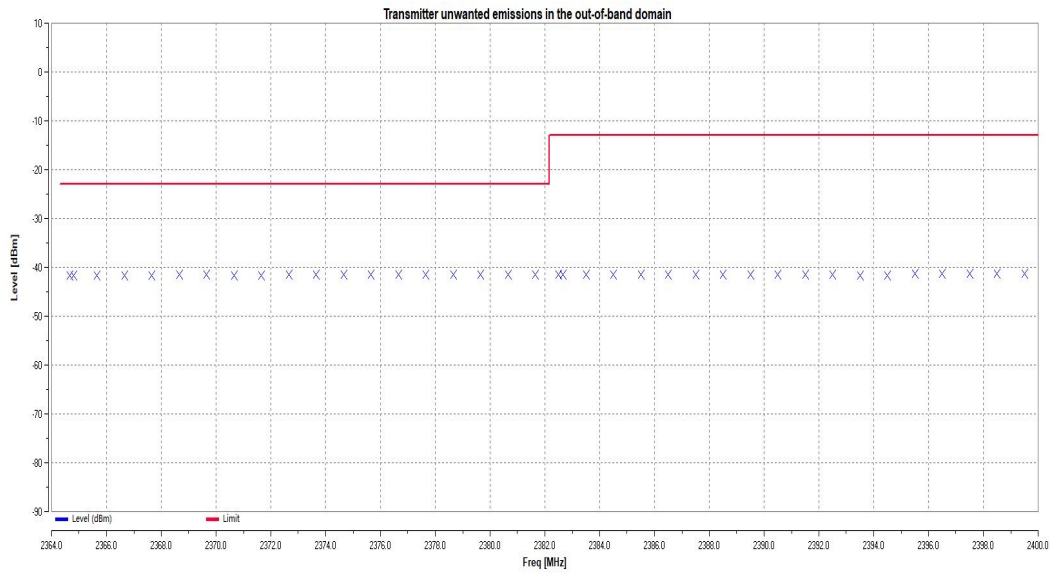
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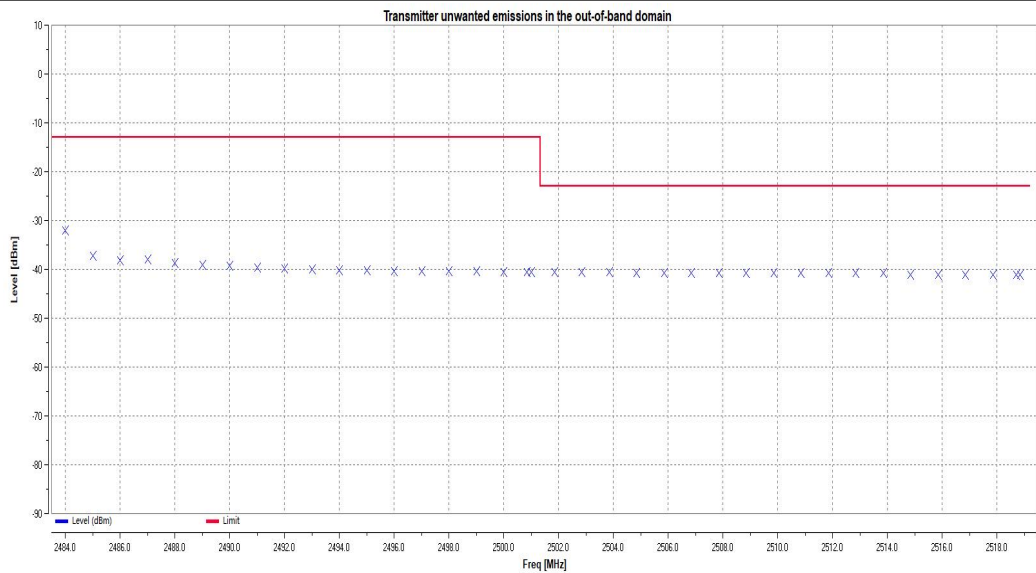
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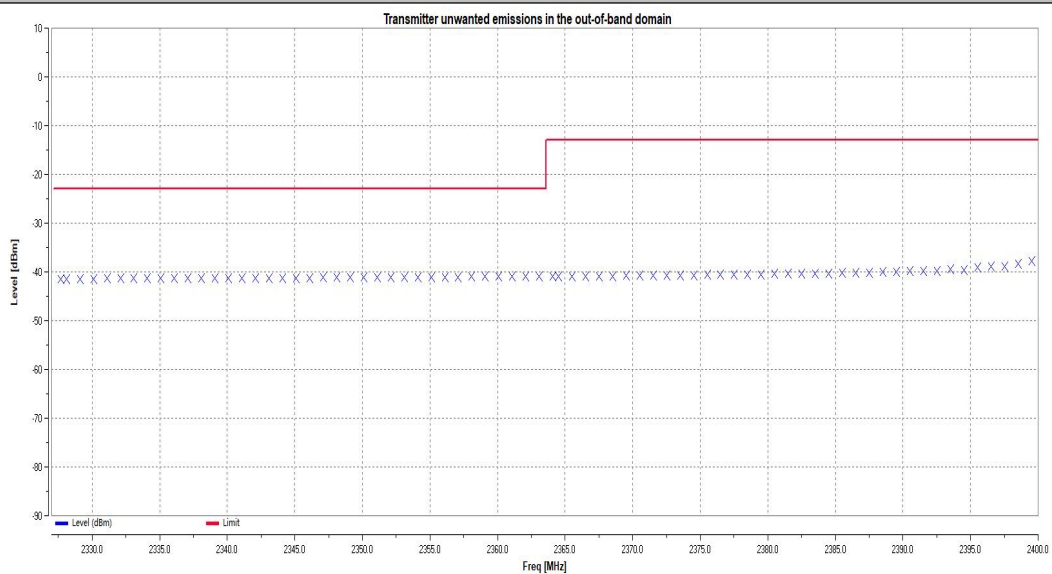
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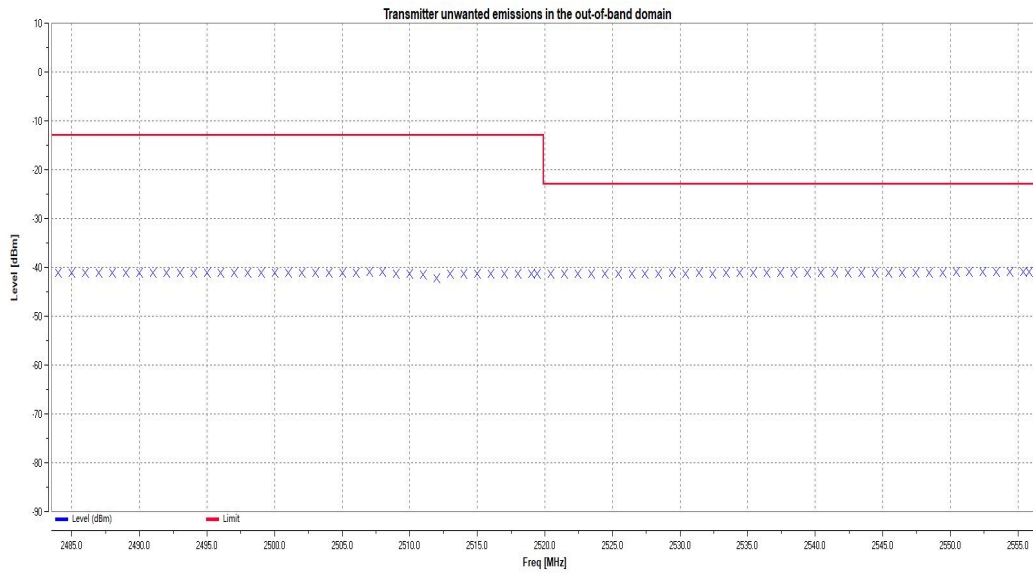
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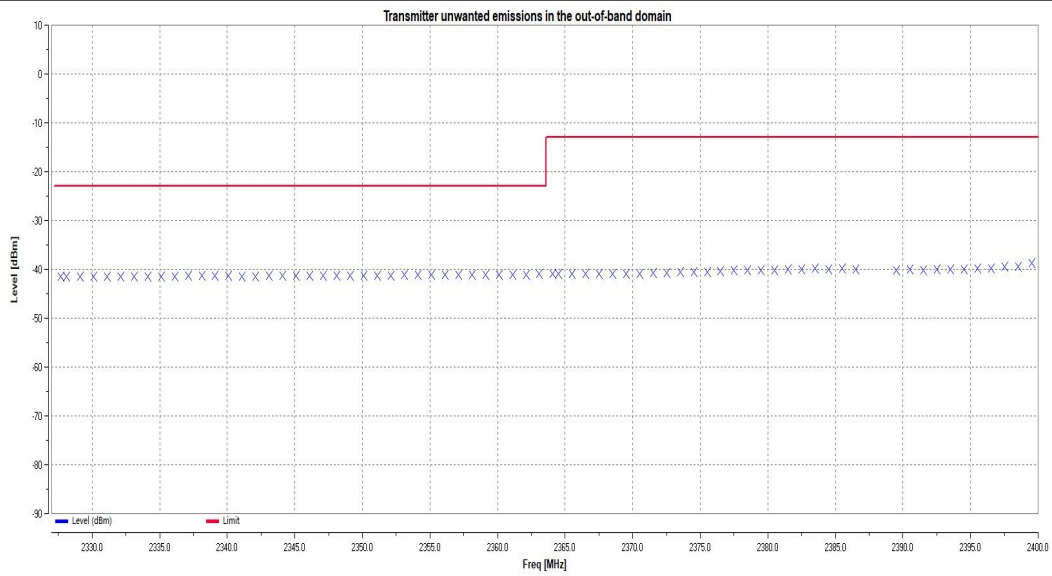
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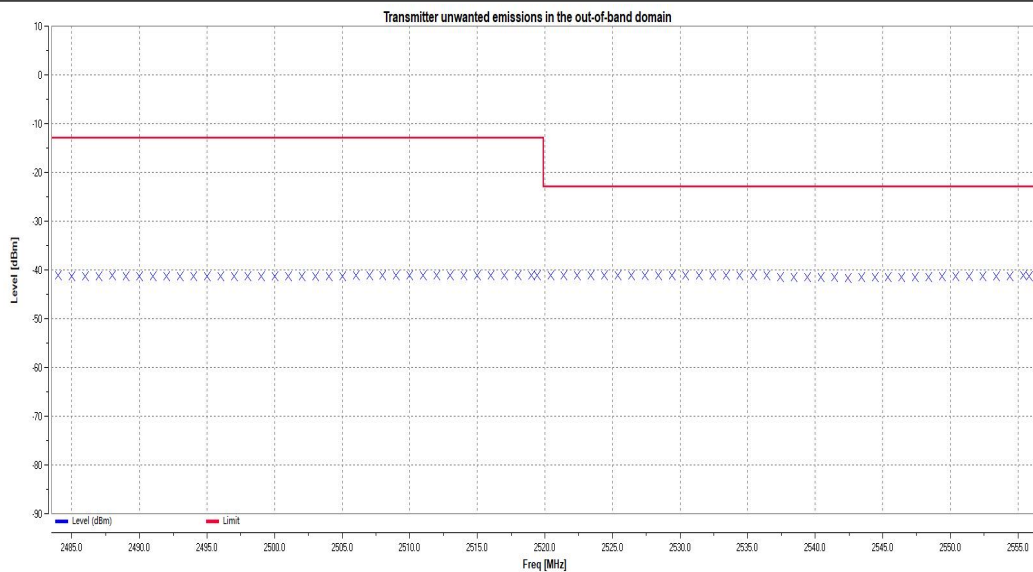
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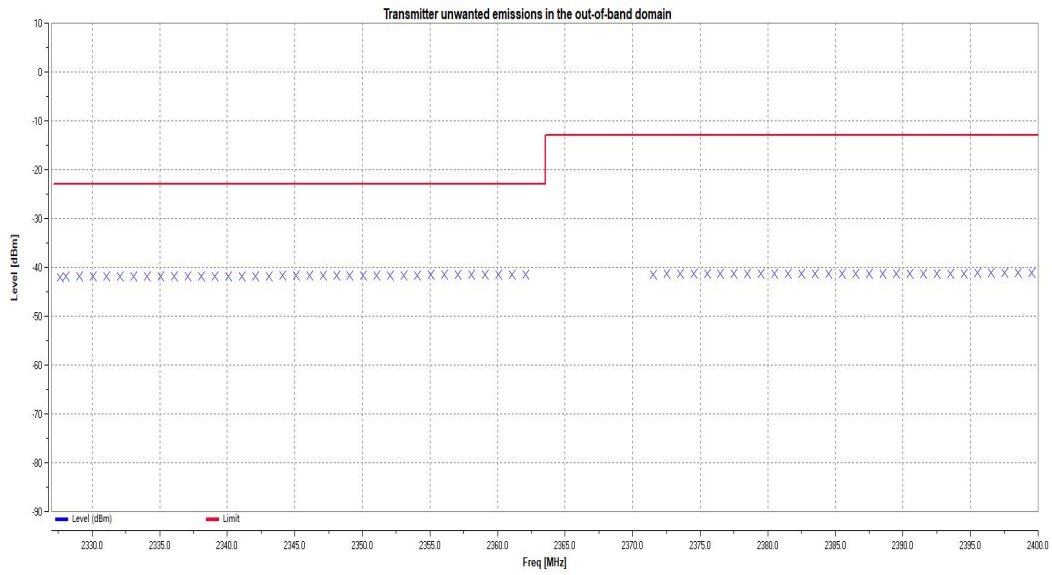
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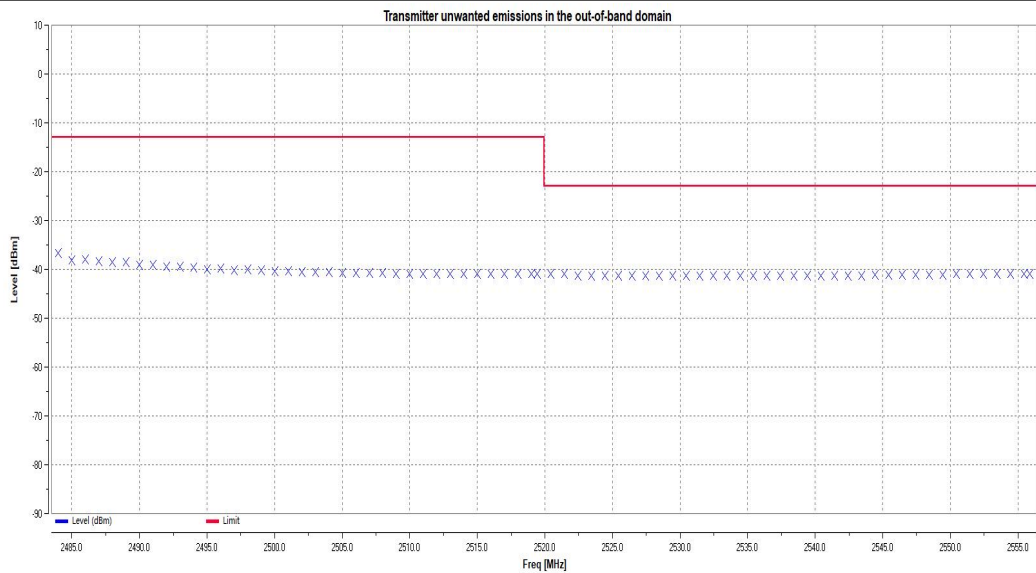
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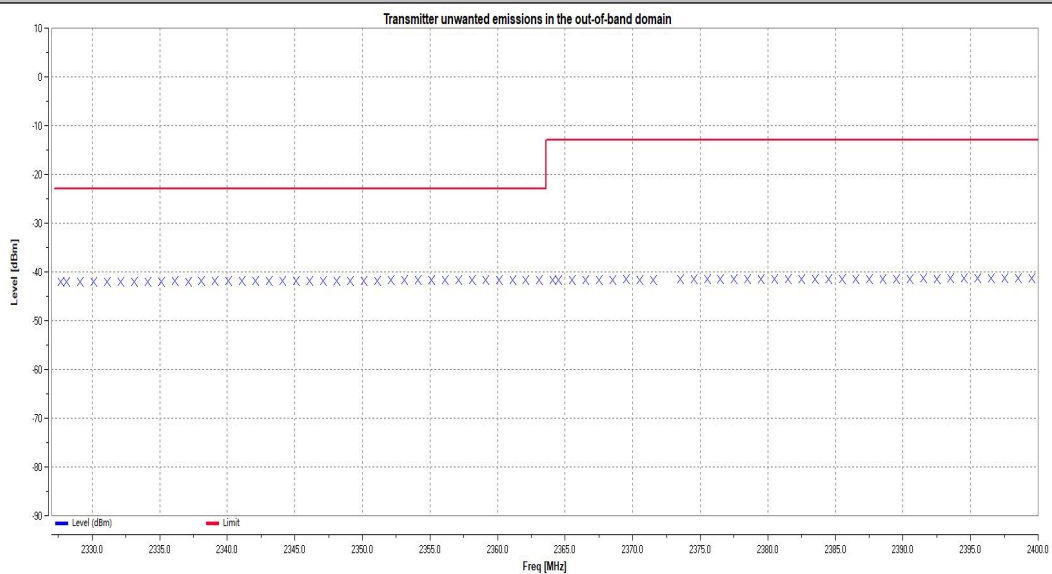
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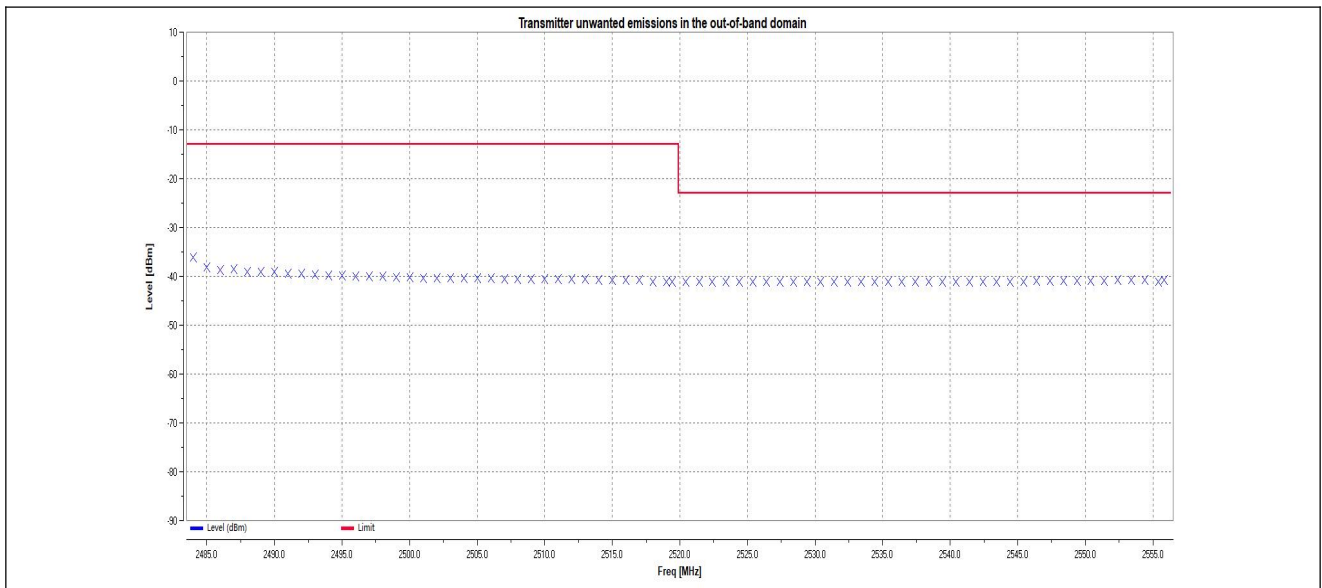
11AX40MIMO_Ant1_2462_2483.5MHz to 2483.5MHz+2BW



11AX40MIMO_Ant2_2462_2400MHz-2BW to 2400MHz



11AX40MIMO_Ant2_2462_2483.5MHz to 2483.5MHz+2BW



3.6 Transmitter Unwanted Emissions in Spurious Domain (Refer to clause 4.3.2.9)

3.6.1 Limit

Transmitter Spurious Emissions Limit		
Frequency Range	Maximum Power	Bandwidth
30 MHz to 47 MHz	-36 dBm	100 kHz
47 MHz to 74 MHz	-54 dBm	100 kHz
74 MHz to 87,5 MHz	-36 dBm	100 kHz
87,5 MHz to 118 MHz	-54 dBm	100 kHz
118 MHz to 174 MHz	-36 dBm	100 kHz
174 MHz to 230 MHz	-54 dBm	100 kHz
230 MHz to 470 MHz	-36 dBm	100 kHz
470 MHz to 694 MHz	-54 dBm	100 kHz
694 MHz to 1 GHz	-36 dBm	100 kHz
1 GHz to 12,75 GHz	-30 dBm	1 MHz

Note 1: Note: spurious domain $\leq (2400 \text{ MHz} - 2N)$ and spurious domain $\geq (2483.5 \text{ MHz} + 2N)$; $N = \text{MAX}(1, \text{Occupied Channel Bandwidth}) \text{ MHz}$.

3.6.2 Test Peripherals

Support Equipment				
No.	Equipment	Brand Name	Model Name	Remarks
1	Record PC	Lenovo	M4000q	N/A

3.6.3 Test Procedure

Test Method	
☐ Conducted Measurement	☒ Radiated Measurement
Test Channels	
☐ Lowest, Middle and Highest Channel	☒ Lowest and Highest Channel
Environmental conditions	
☒ Normal	☐ Normal and Extreme
Note: ☒ : Test ☐ : No Test	

a) The emissions over the range 30 MHz to 1 000 MHz shall be identified. spectrum analyser settings as following:

30MHz~1000MHz	
RBW	100 kHz
VBW	300 kHz
Detector Mode	Peak
Trace Mode	Max Hold
Sweep Points	≥ 19400
Sweep Time	For non continuous transmissions (duty cycle less than 100 %), the

	sweep time shall be sufficiently long (50ms)
--	--

b) Wait for the trace to stabilize. Any emissions identified that have a margin of less than 6 dB with respect to the limits given in clause 4.3.2.9.3, should be implement step f to step h.

c) The emissions over the range 1 GHz to 12.75 GHz shall be identified. spectrum analyser settings as following:

1GHz~ 12.75GHz	
RBW	1 MHz
VBW	3 MHz
Detector Mode	Peak
Trace Mode	Max Hold
Sweep Points	≥ 23500
Sweep Time	For non continuous transmissions (duty cycle less than 100 %), the sweep time shall be sufficiently long (50ms)

d) Wait for the trace to stabilize. Any emissions identified that have a margin of less than 6 dB with respect to the limits given in clause 4.3.2.9.3, should be implement step f to step h.

e) The procedure in step f to step h below shall be used to accurately measure the individual unwanted emissions identified during the pre-scan measurements above. This method assumes the spectrum analyser has a Time Domain Power Function.

f) The level of the emissions shall be measured using the following spectrum analyser settings:

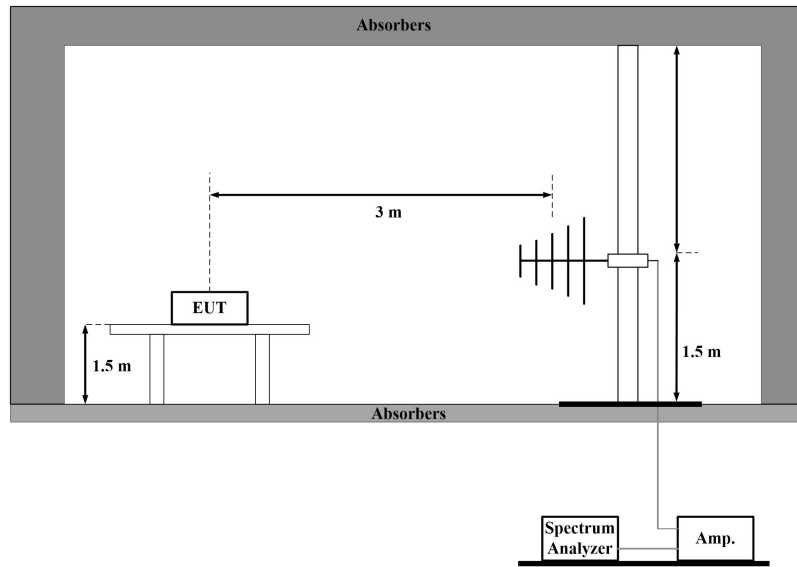
Measurement mode	Time Domain Power
Centre Frequency	Frequency of the emission identified during the pre-scan
RBW	100 kHz (emissions < 1 GHz) / 1 MHz (emissions > 1 GHz)
VBW	300 kHz (emissions < 1 GHz) / 3 MHz (emissions > 1 GHz)
Frequency Span	Zero Span
Sweep mode	Single Sweep
Sweep time	>120% of the duration of the longest burst detected during the measurement of the RF Output Power .
Sweep Points	Sweep time [μs] / 1 μs with a maximum of 30 000
Trigger	Video
Detector	RMS

g) Set a window where the start and stop indicators match the start and end of the burst with the highest level and record the value of the power measured within this window. If the spurious emission to be measured is a continuous transmission, the measurement window shall be set to match the start and stop times of the sweep.

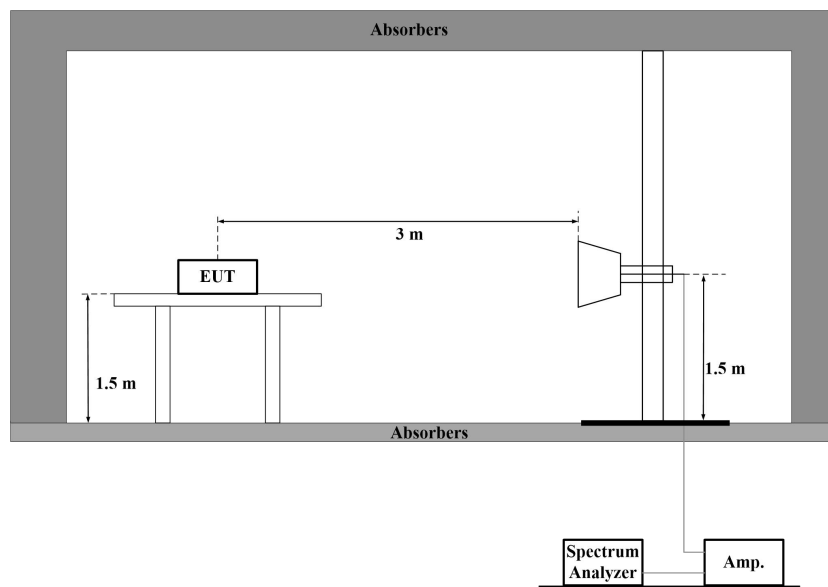
h) The value defined in step g shall be compared to the limits and be recorded.

3.6.4 Test Configuration

Radiated measurement test set-up frequency below 1 GHz



Radiated measurement test set-up frequency above 1 GHz



3.6.5 The Result of Transmitter Unwanted Emissions in Spurious Domain

NOTE The test results and plot for testing range of “30 MHz to 1 GHz” showed as below is part of the worst case for all Test Modes and Channels.

3.6.5.1 Test Result

TestMode	Antenna	Test Channel (MHz)	Result [dBm]	Limit[dBm]	Verdict
11B-CDD	All	2412	See test graph	See test graph	PASS
11B-CDD	All	2472	See test graph	See test graph	PASS
11G-CDD	All	2412	See test graph	See test graph	PASS
11G-CDD	All	2472	See test graph	See test graph	PASS
11N20MIMO	All	2412	See test graph	See test graph	PASS
11N20MIMO	All	2472	See test graph	See test graph	PASS
11N40MIMO	All	2422	See test graph	See test graph	PASS
11N40MIMO	All	2462	See test graph	See test graph	PASS
11AX20MIMO	All	2412	See test graph	See test graph	PASS
11AX20MIMO	All	2472	See test graph	See test graph	PASS
11AX40MIMO	All	2422	See test graph	See test graph	PASS
11AX40MIMO	All	2462	See test graph	See test graph	PASS

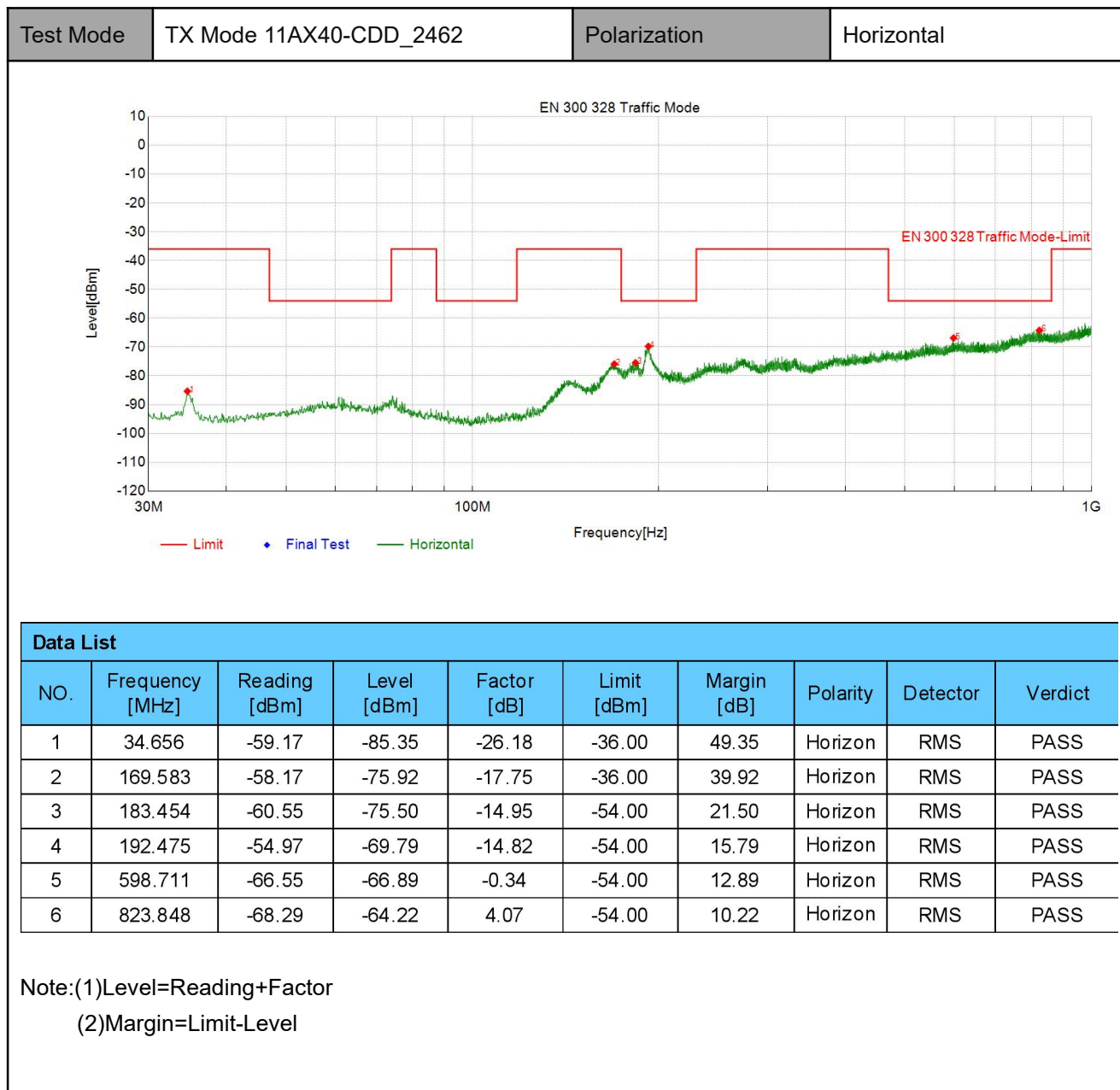
Note:

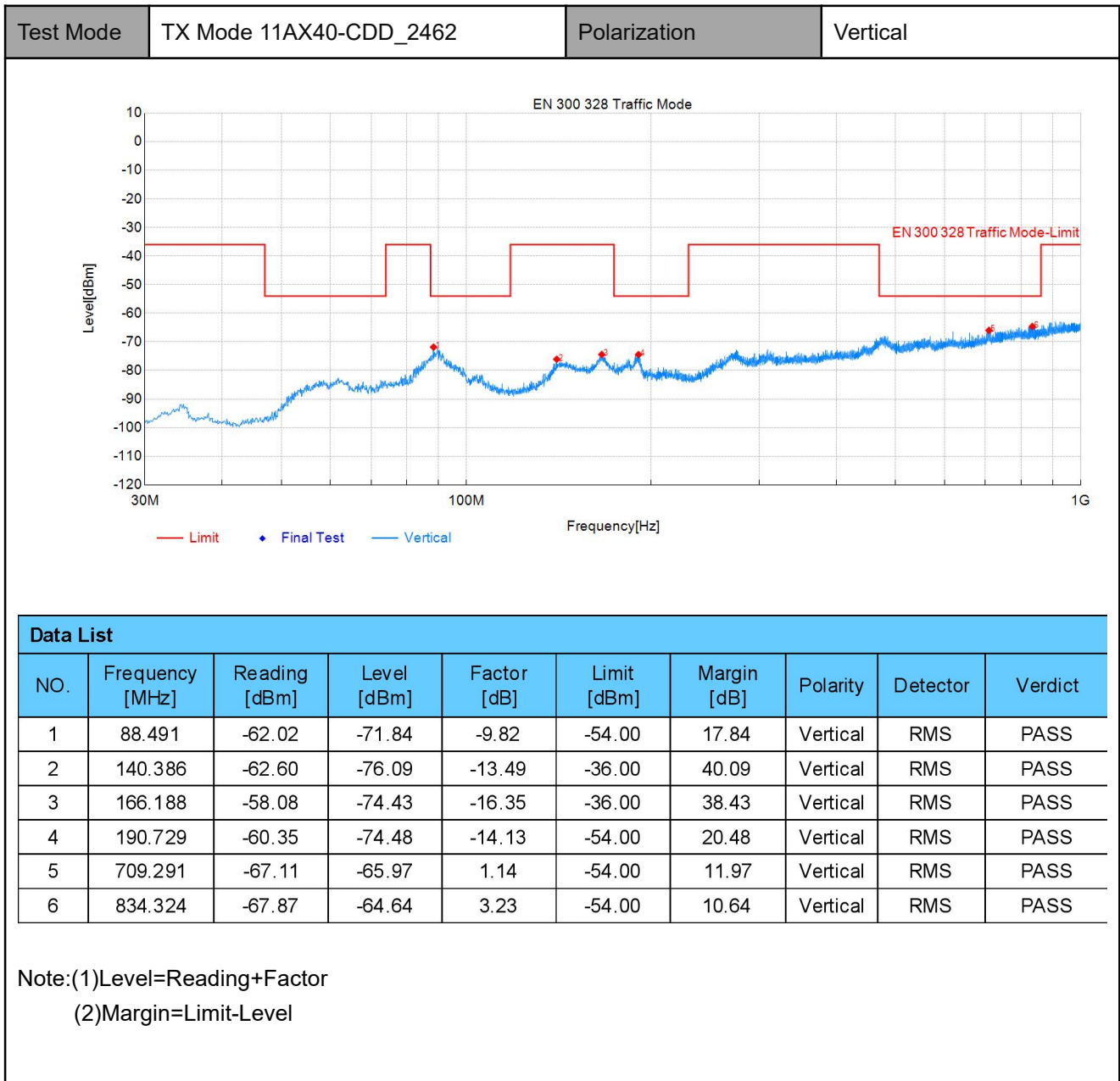
1.By preliminary testing and verifying three axis (X, Y and Z) position of EUT transmitted status, it was found that “X axis” position was the worst, and test data recorded in this report.

3.6.5.2 Test Graphs

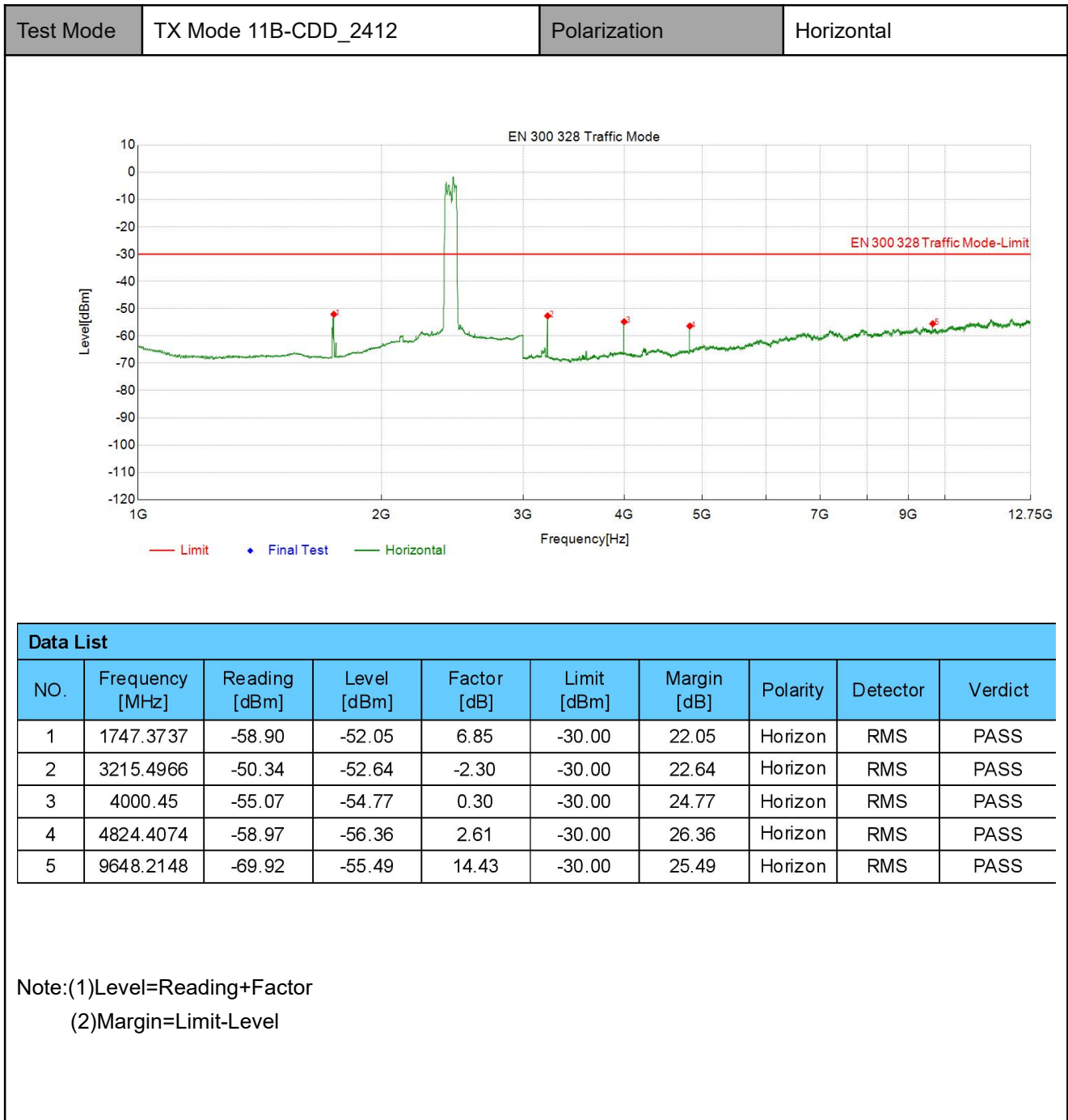
Test Environment	
Temperature(°C)	24.1
Humidity (%RH)	52.8

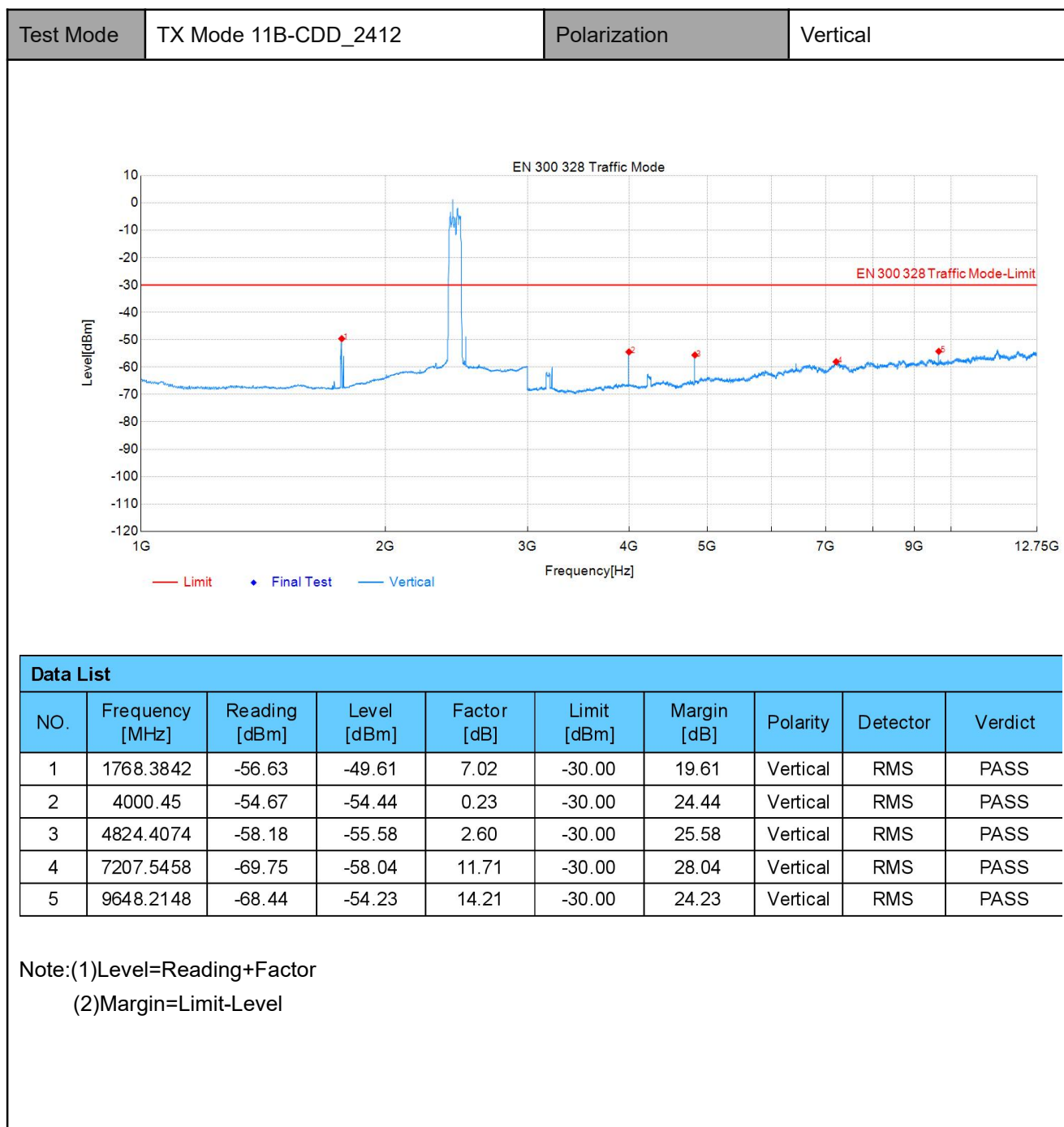
30 MHz to 1 GHz :

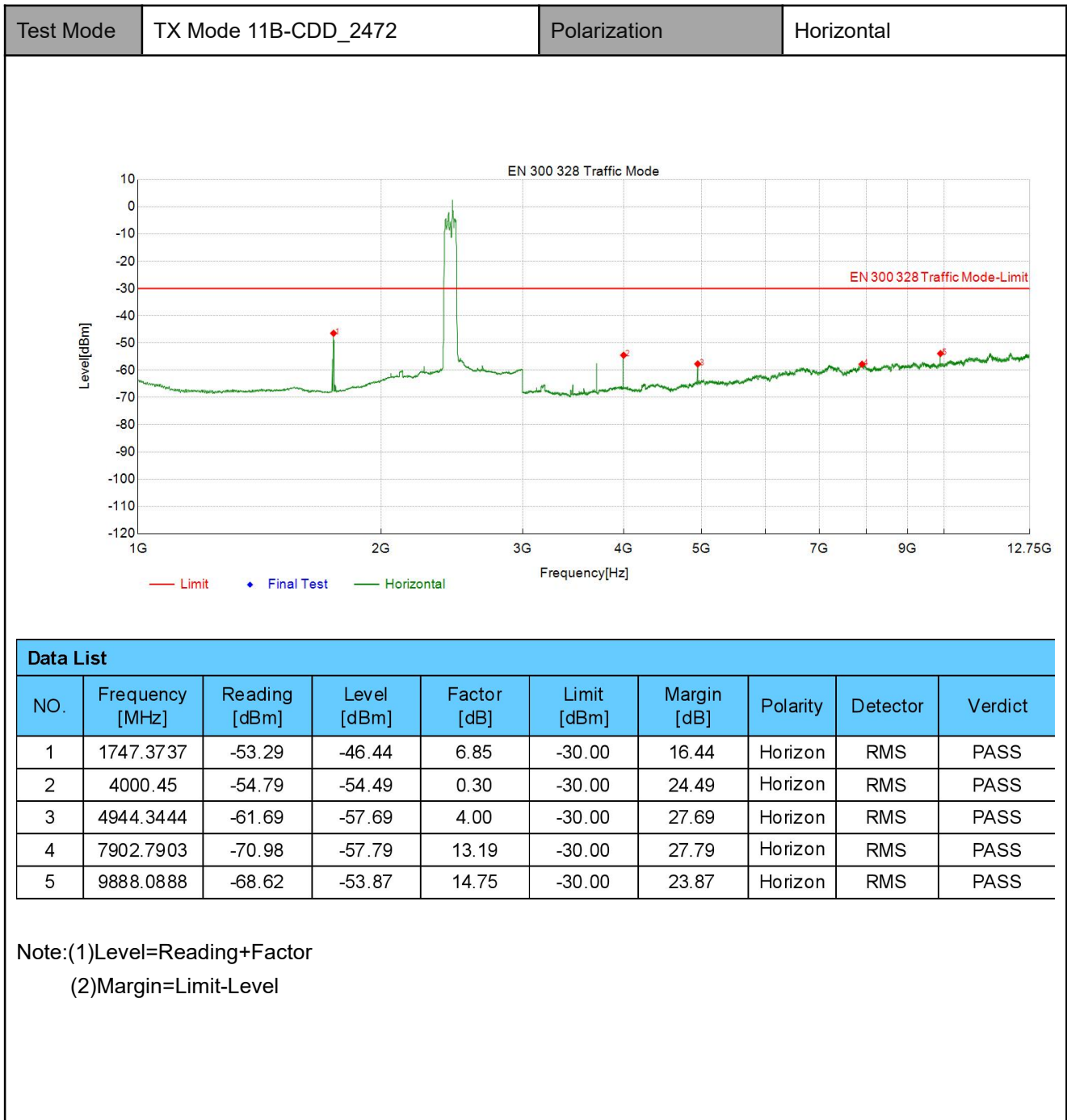


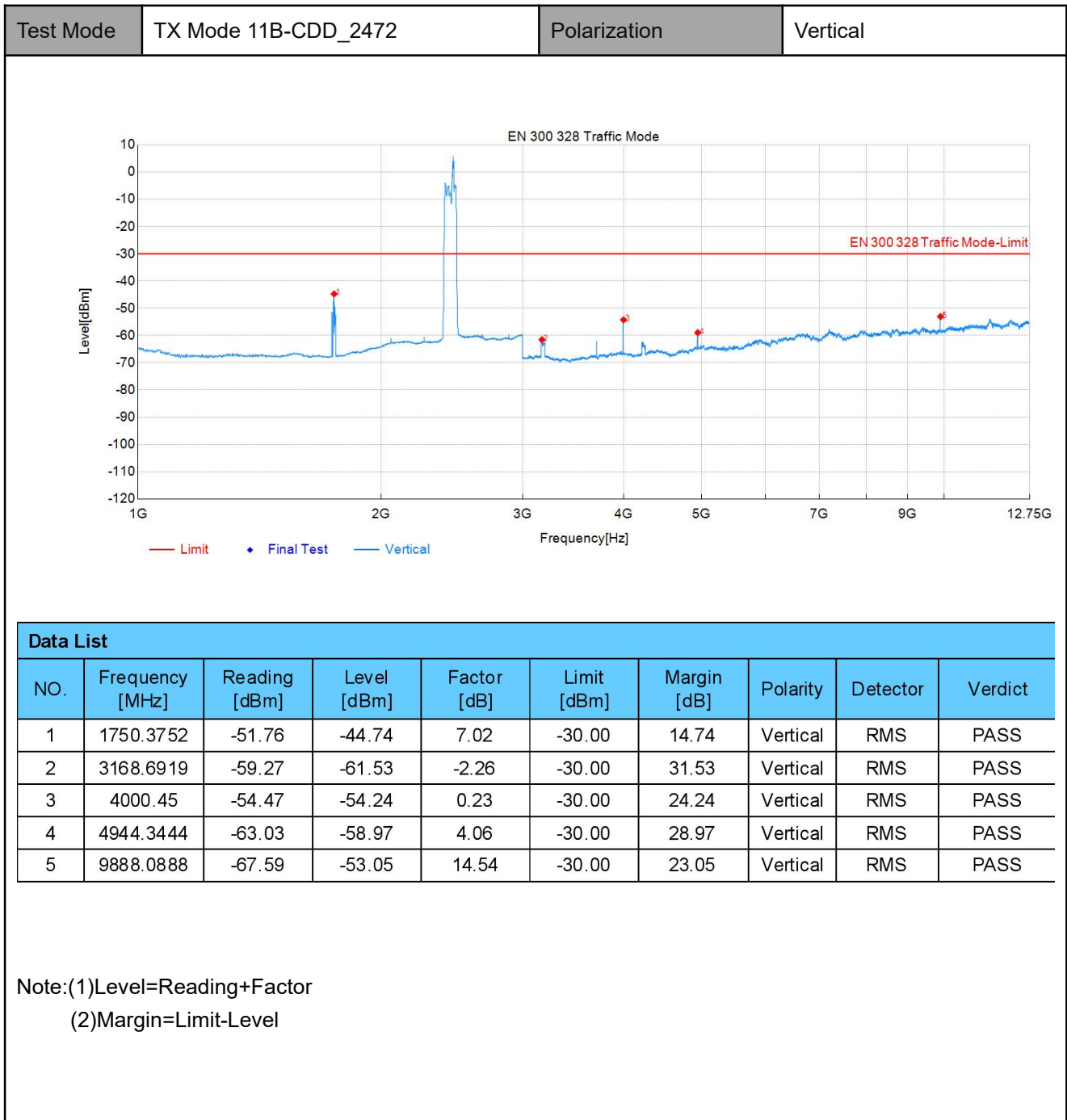


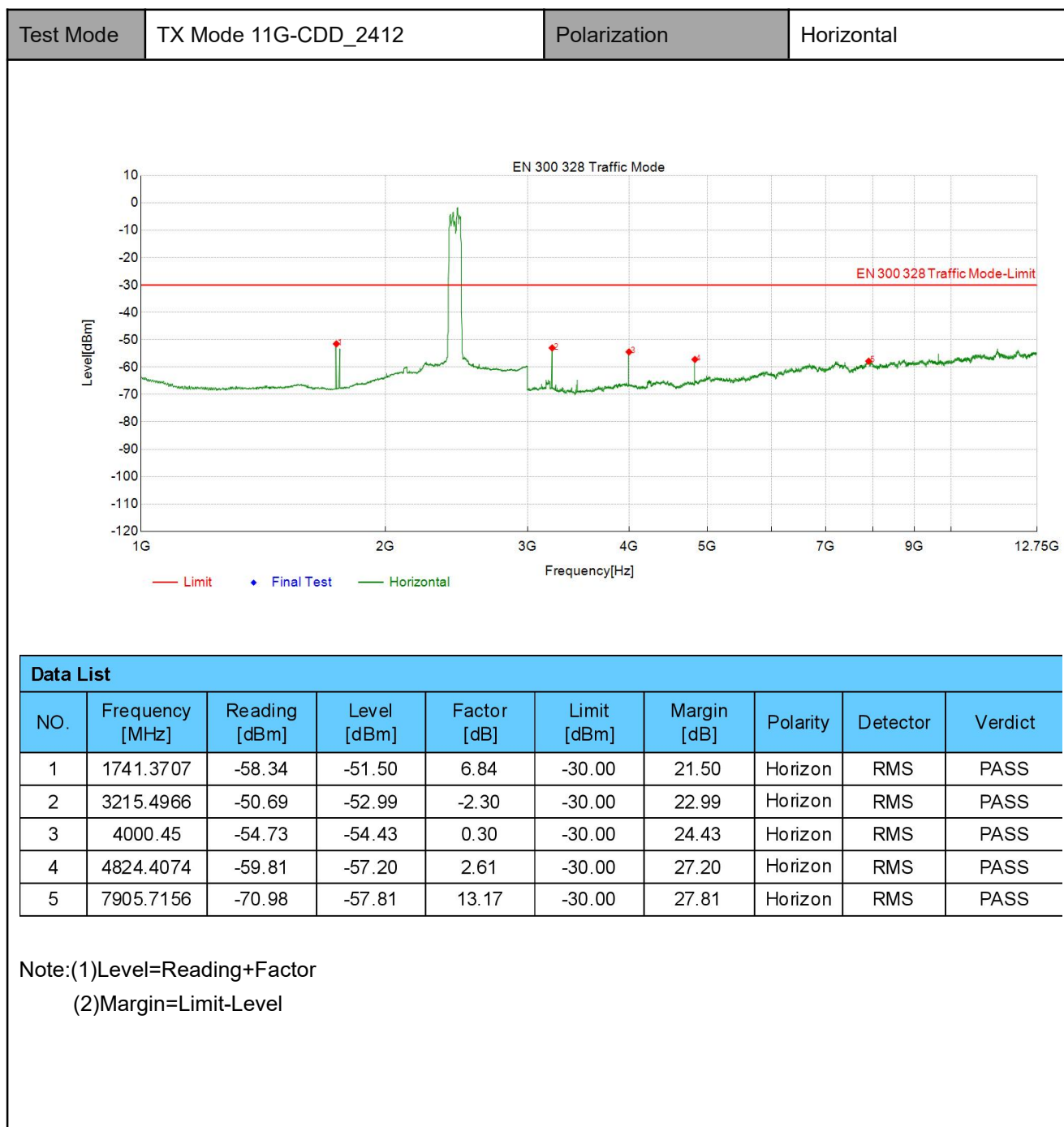
1 GHz to 12.75 GHz :

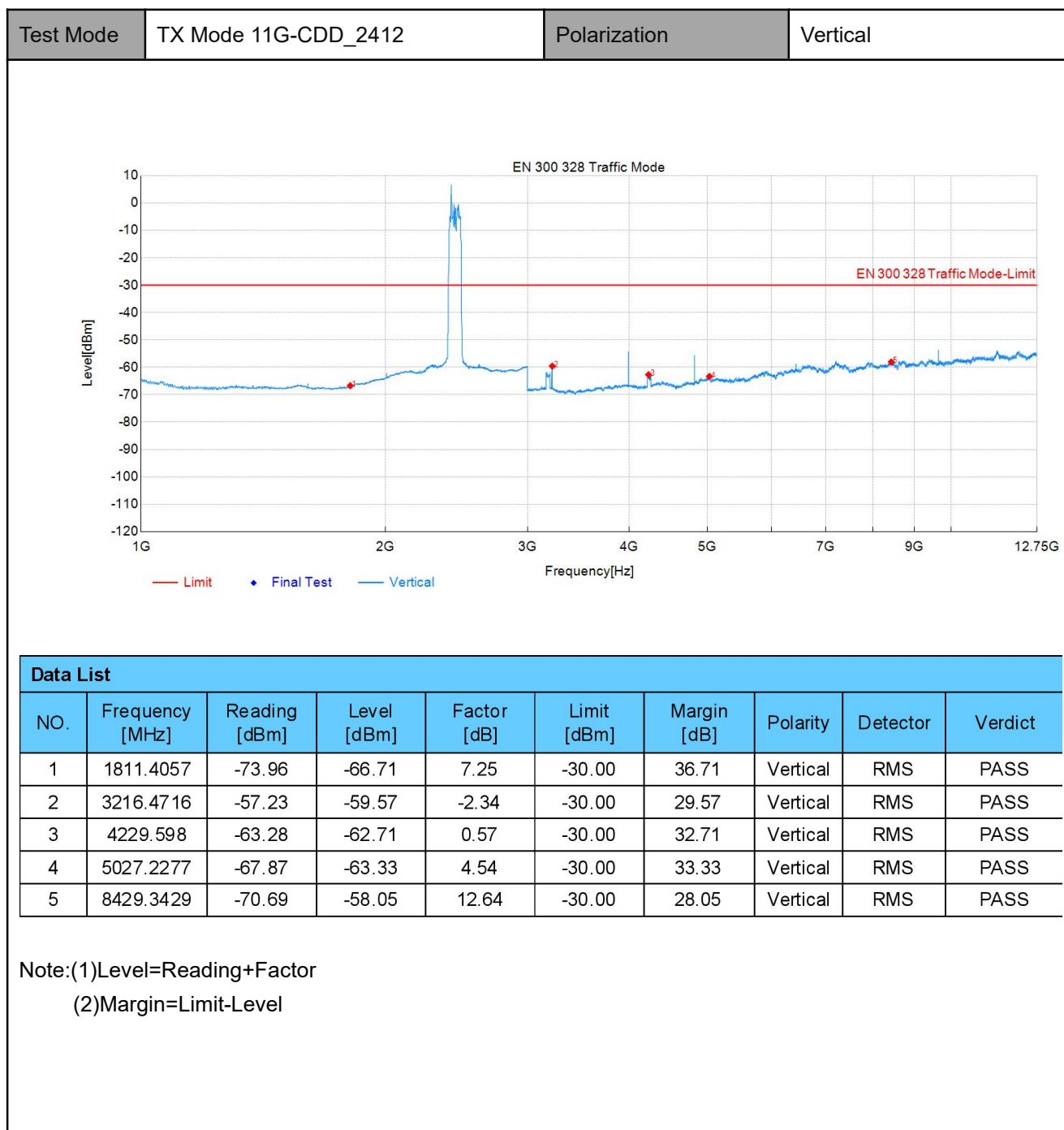


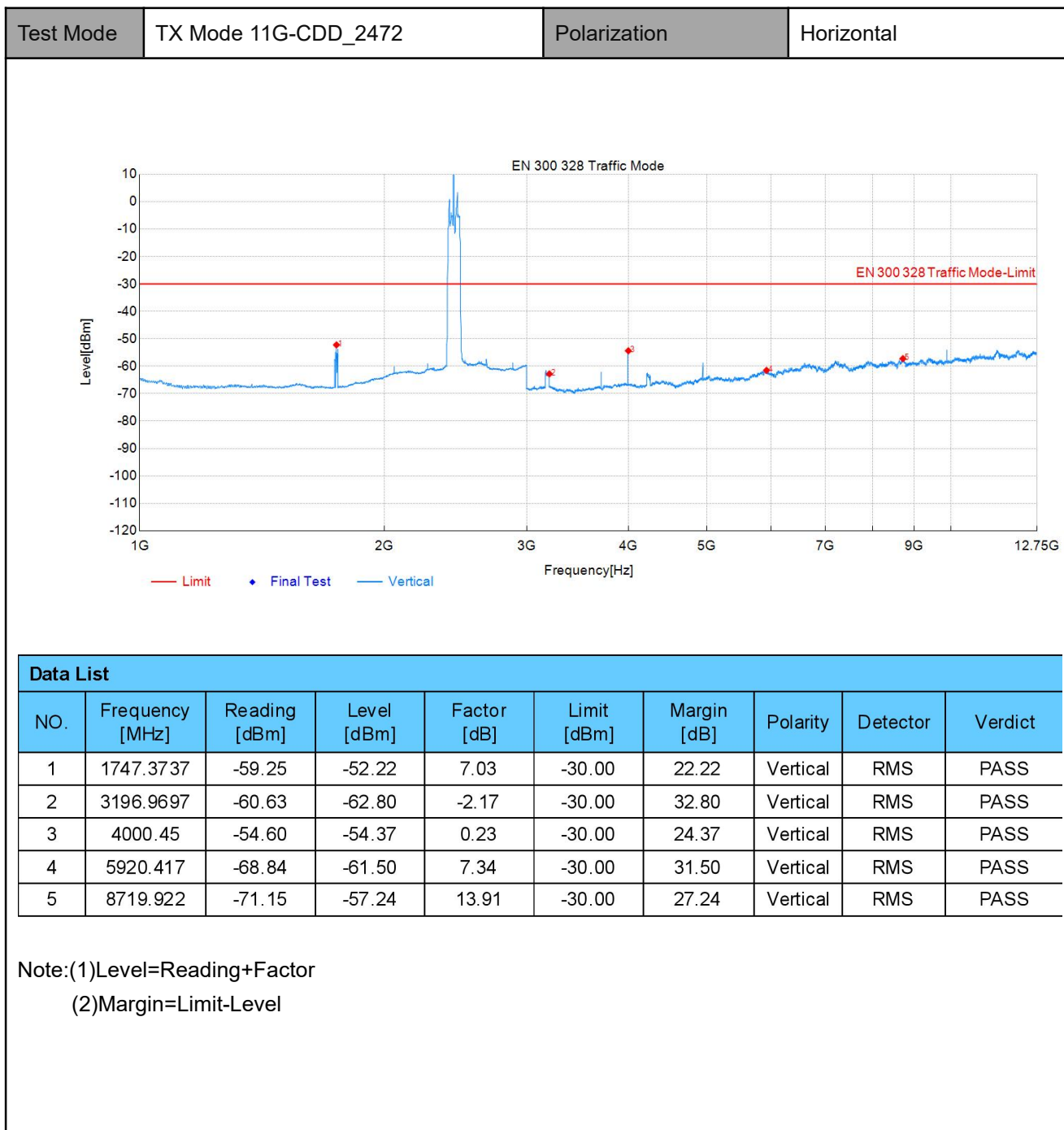


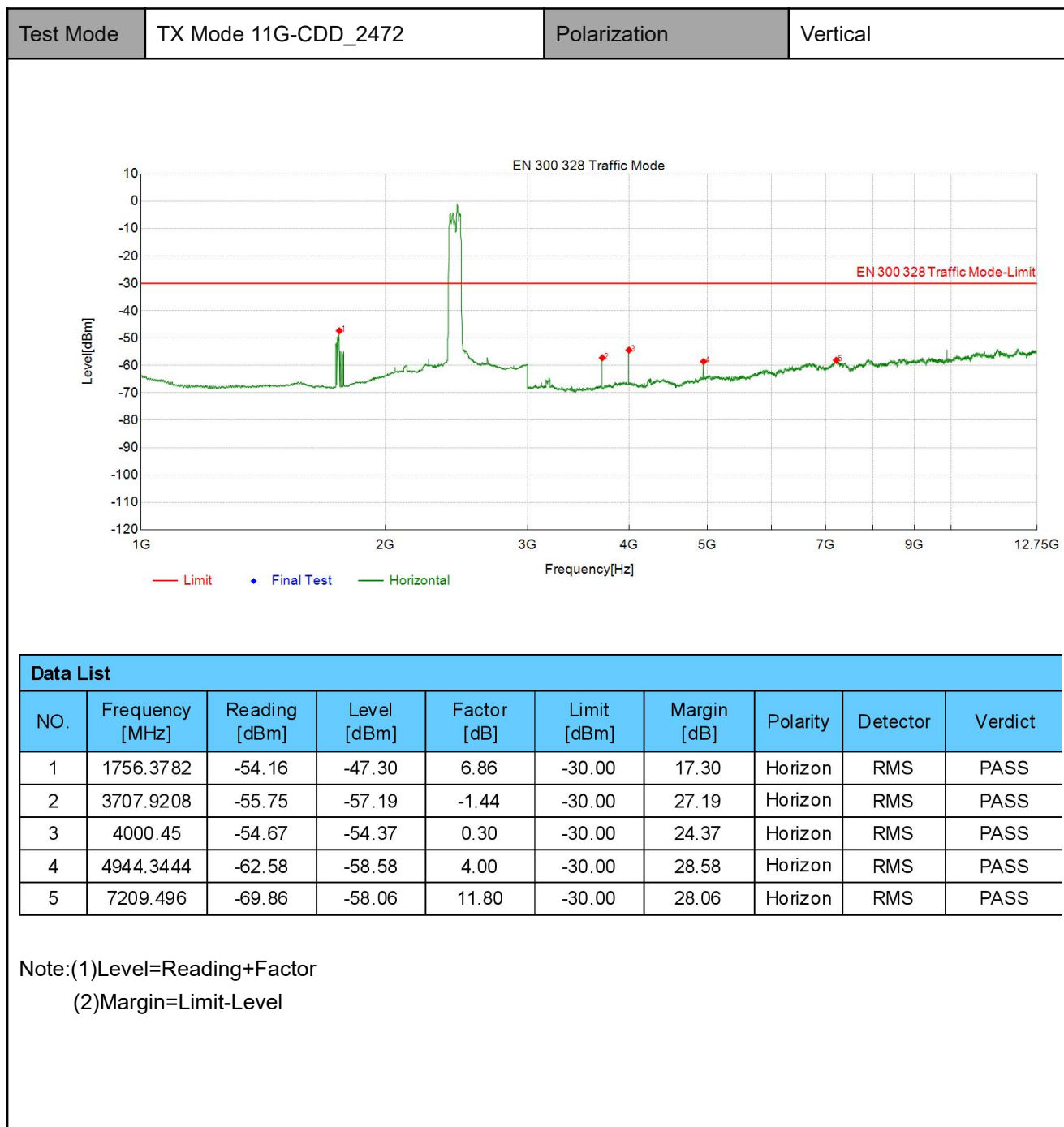


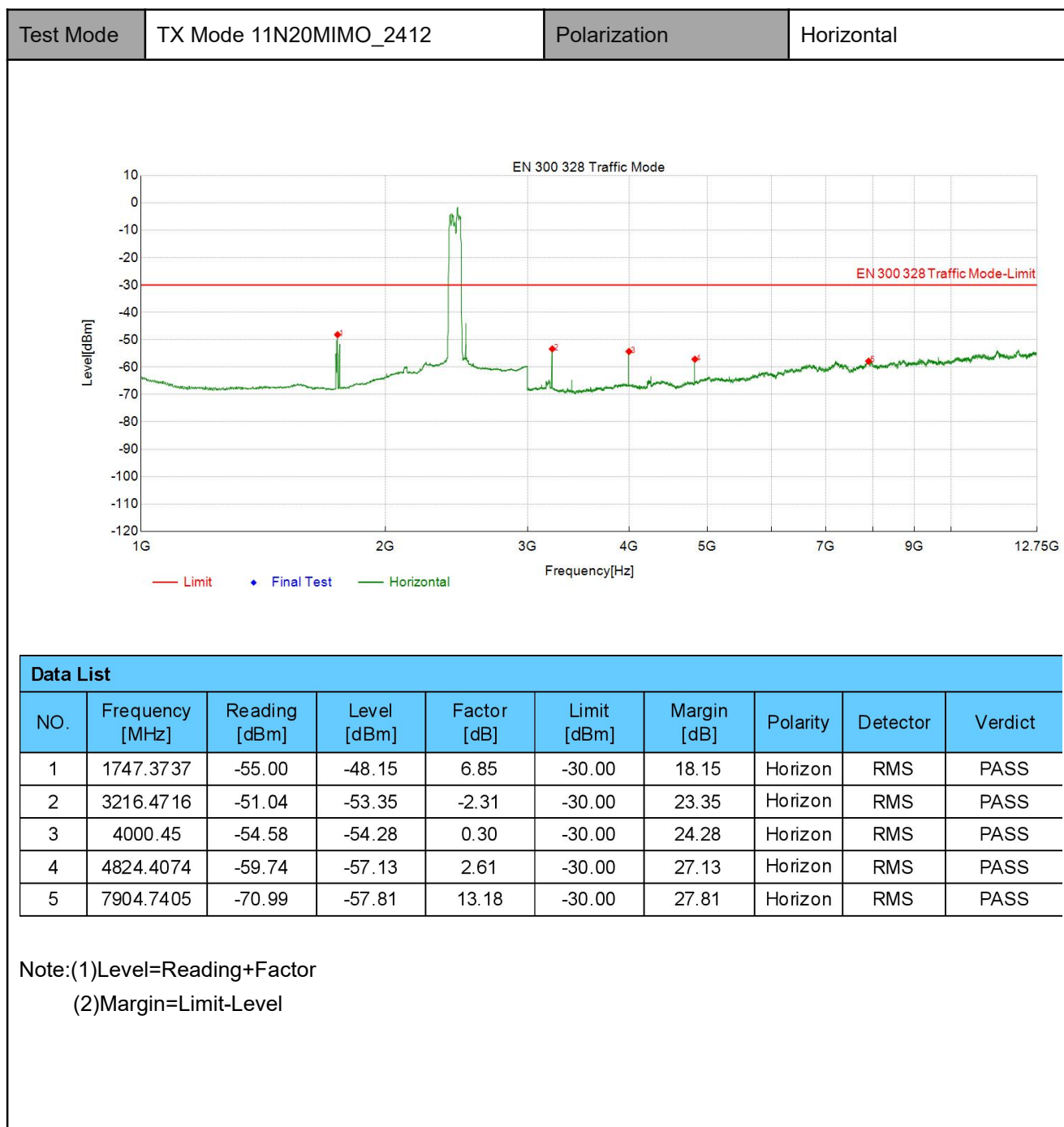


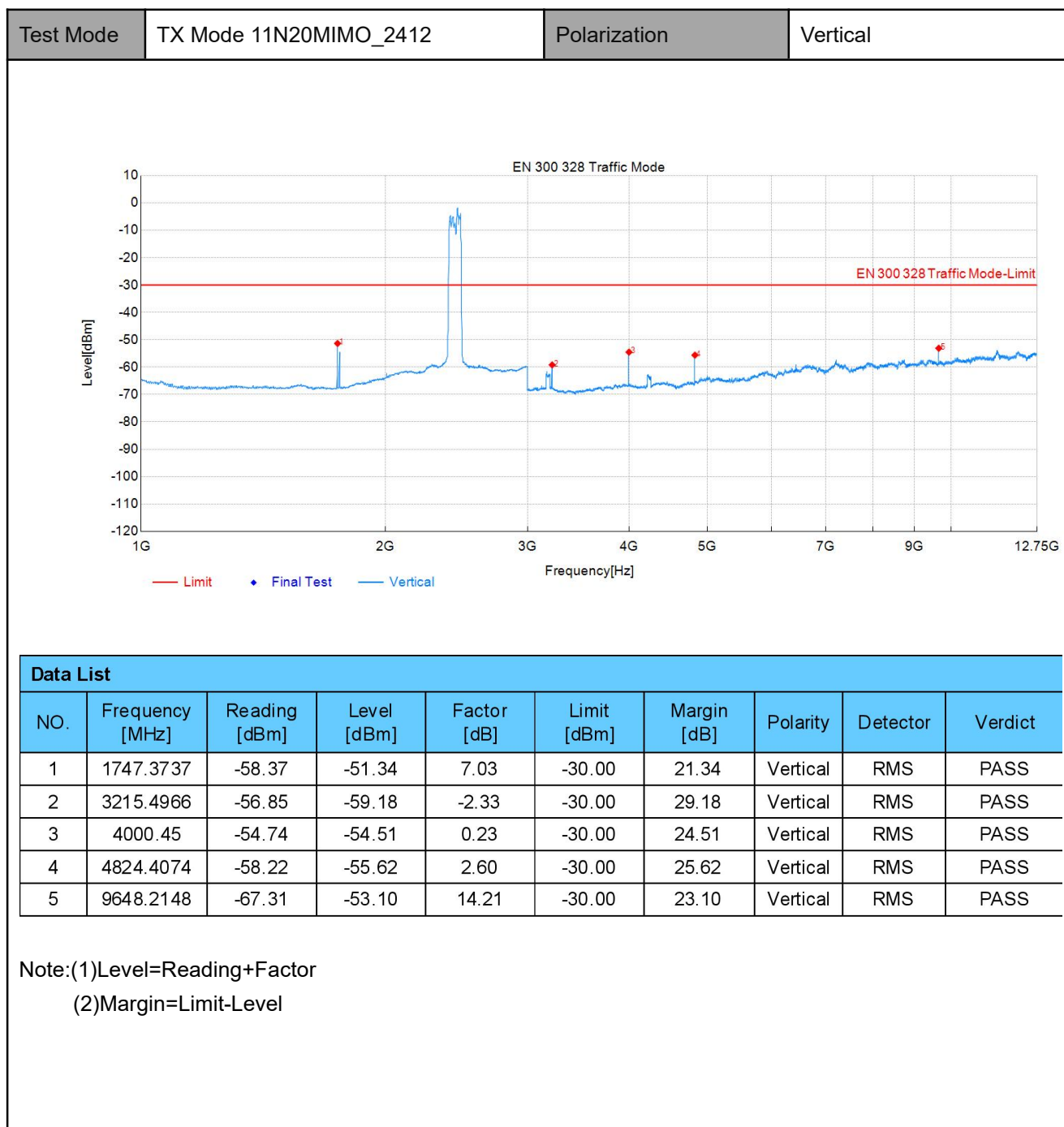


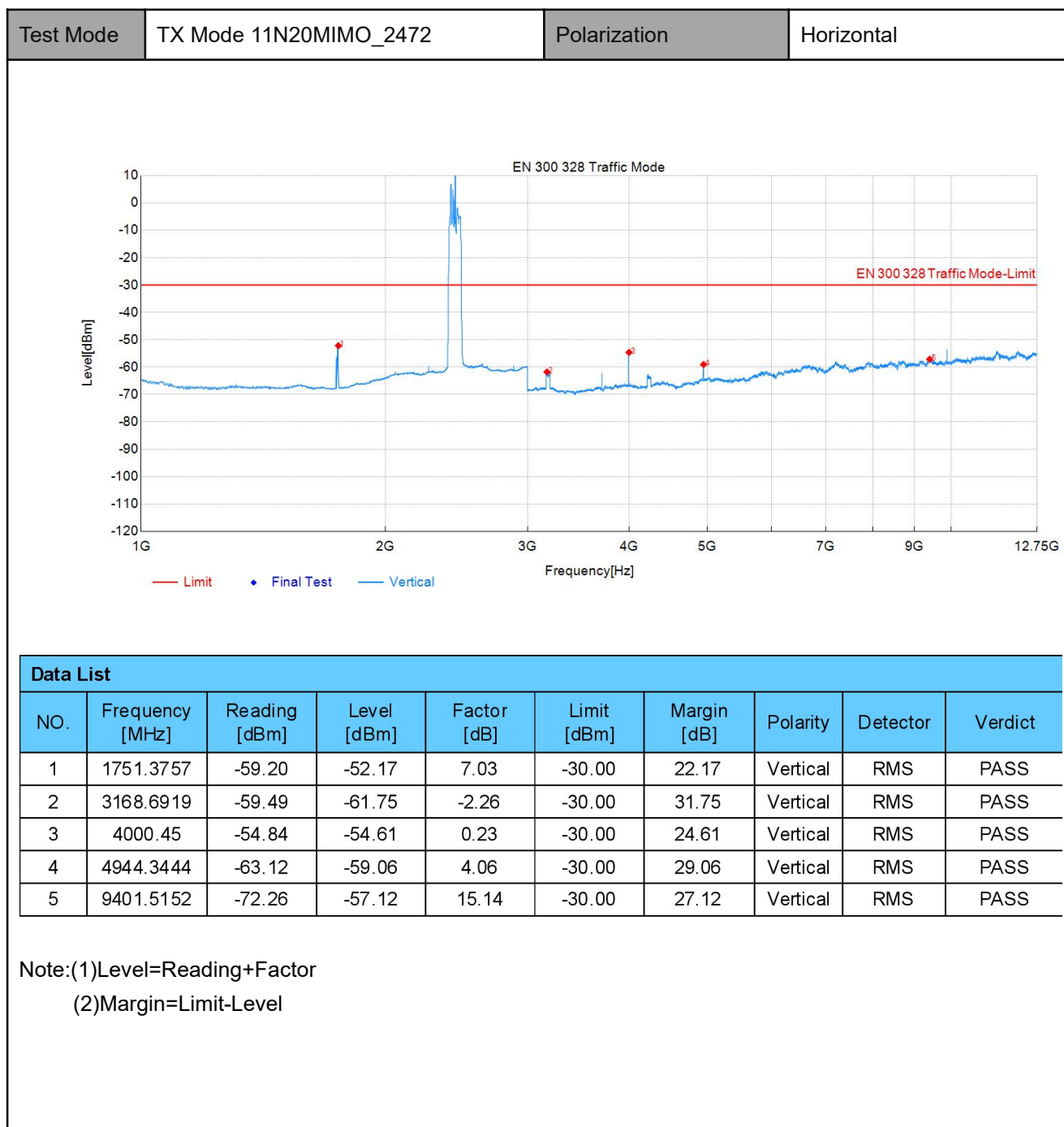


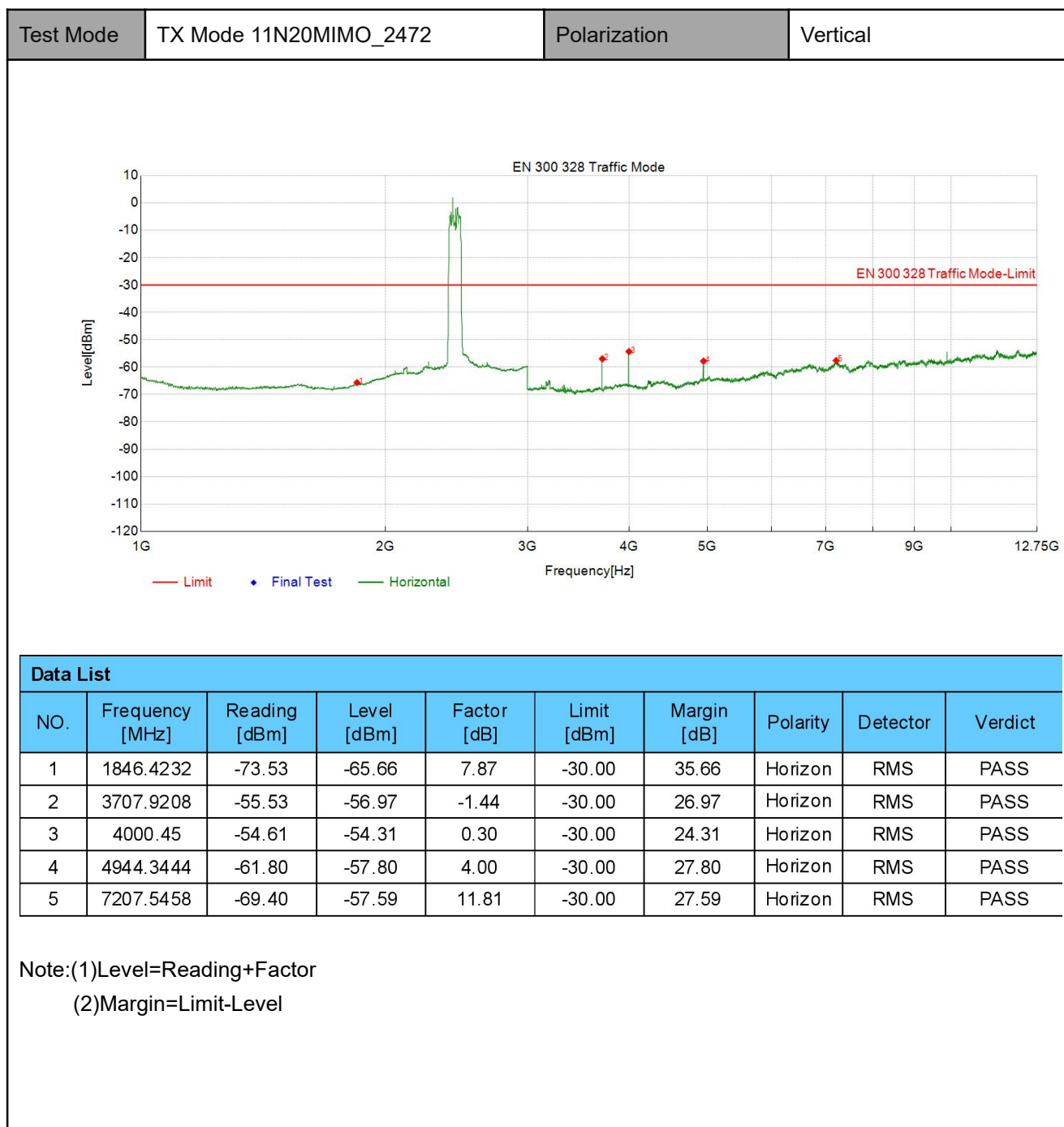


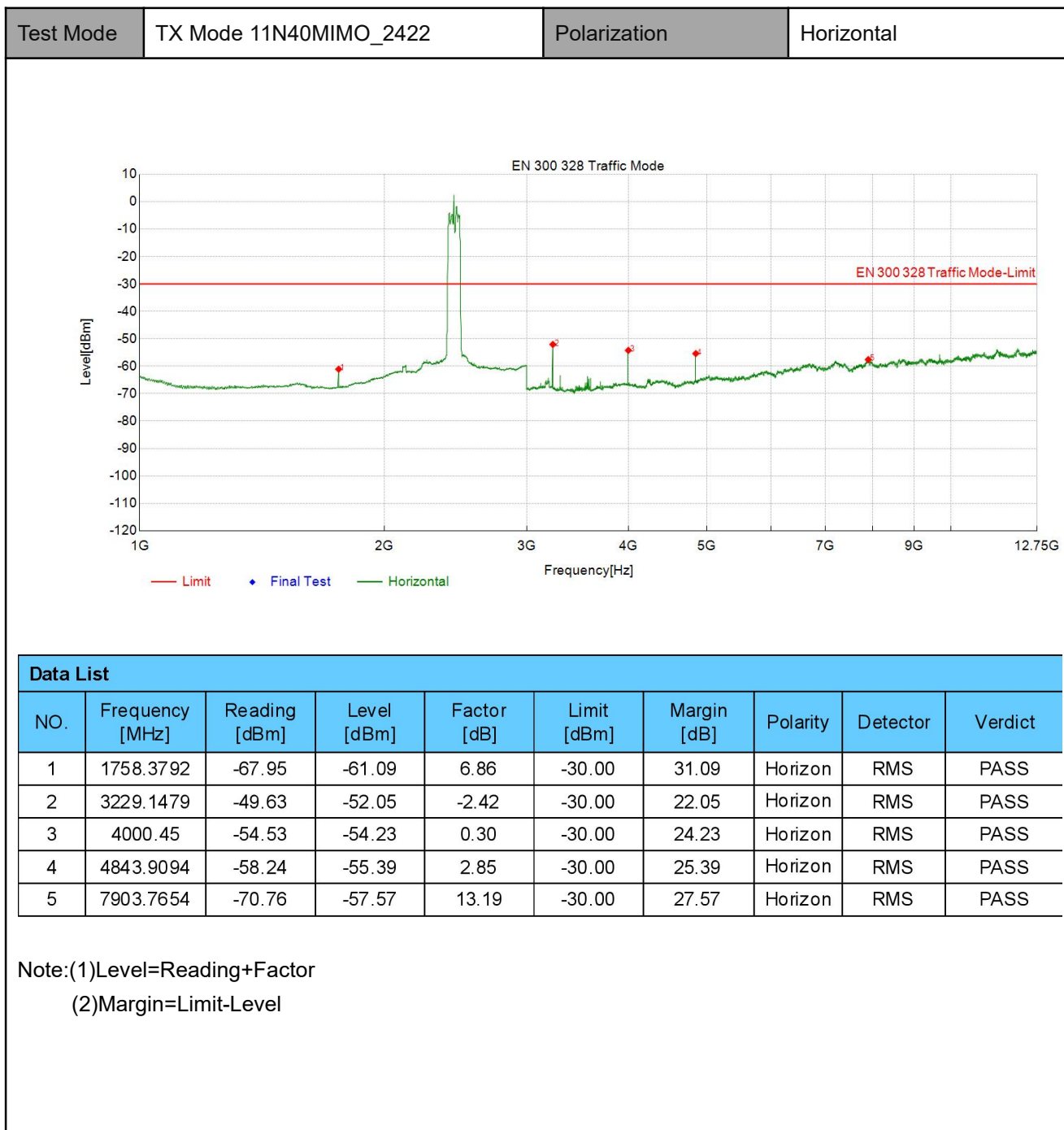


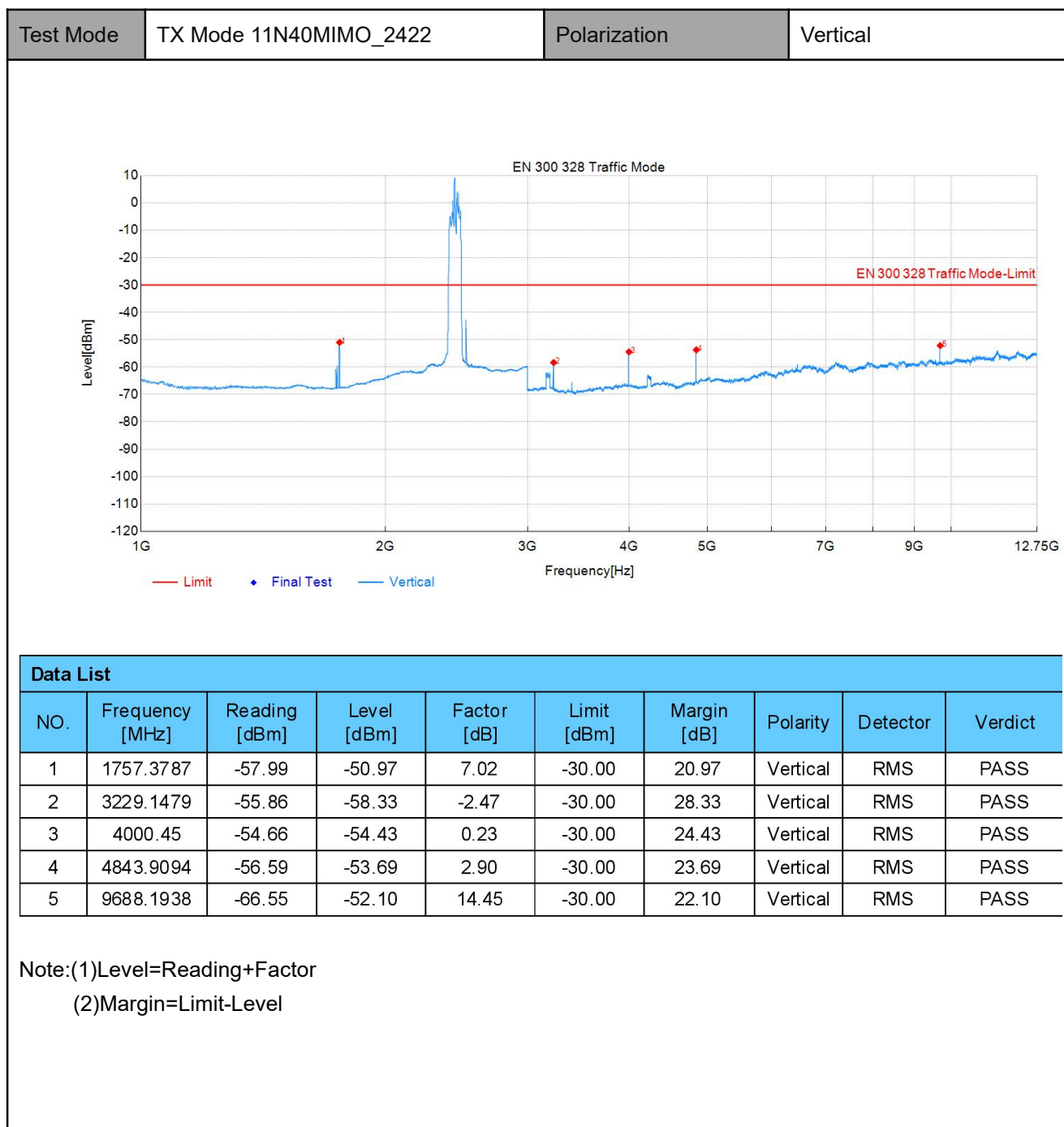


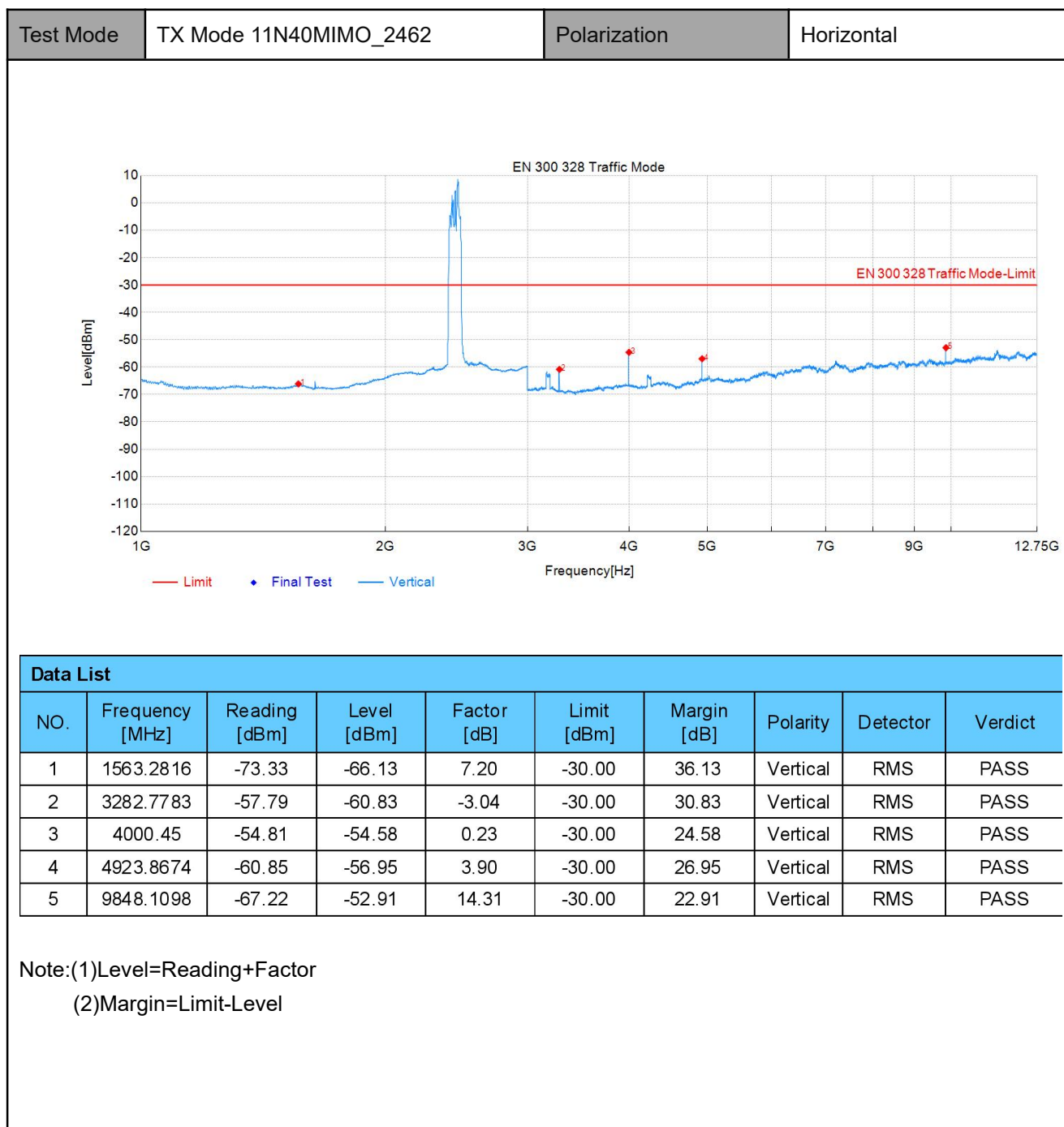


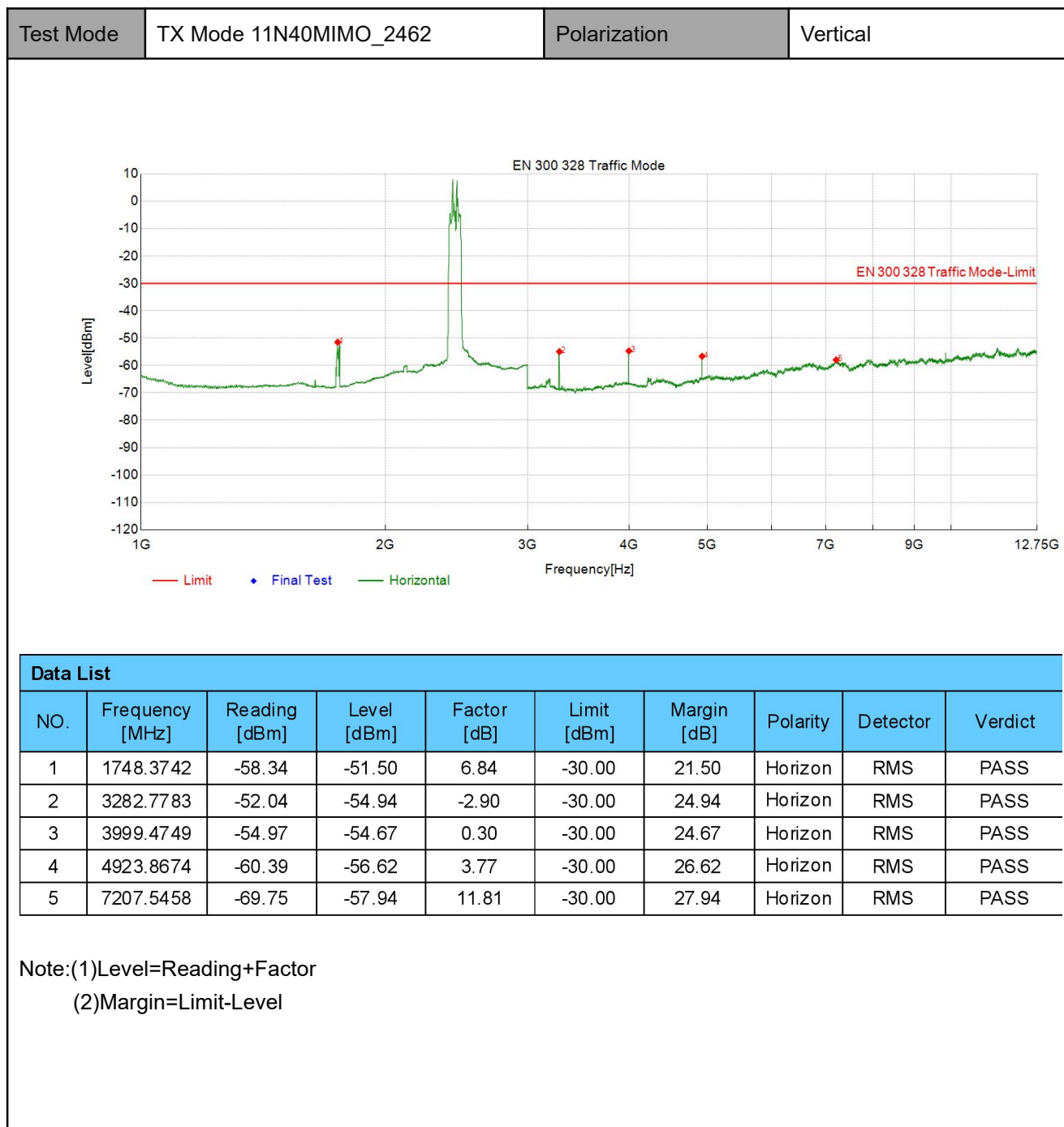


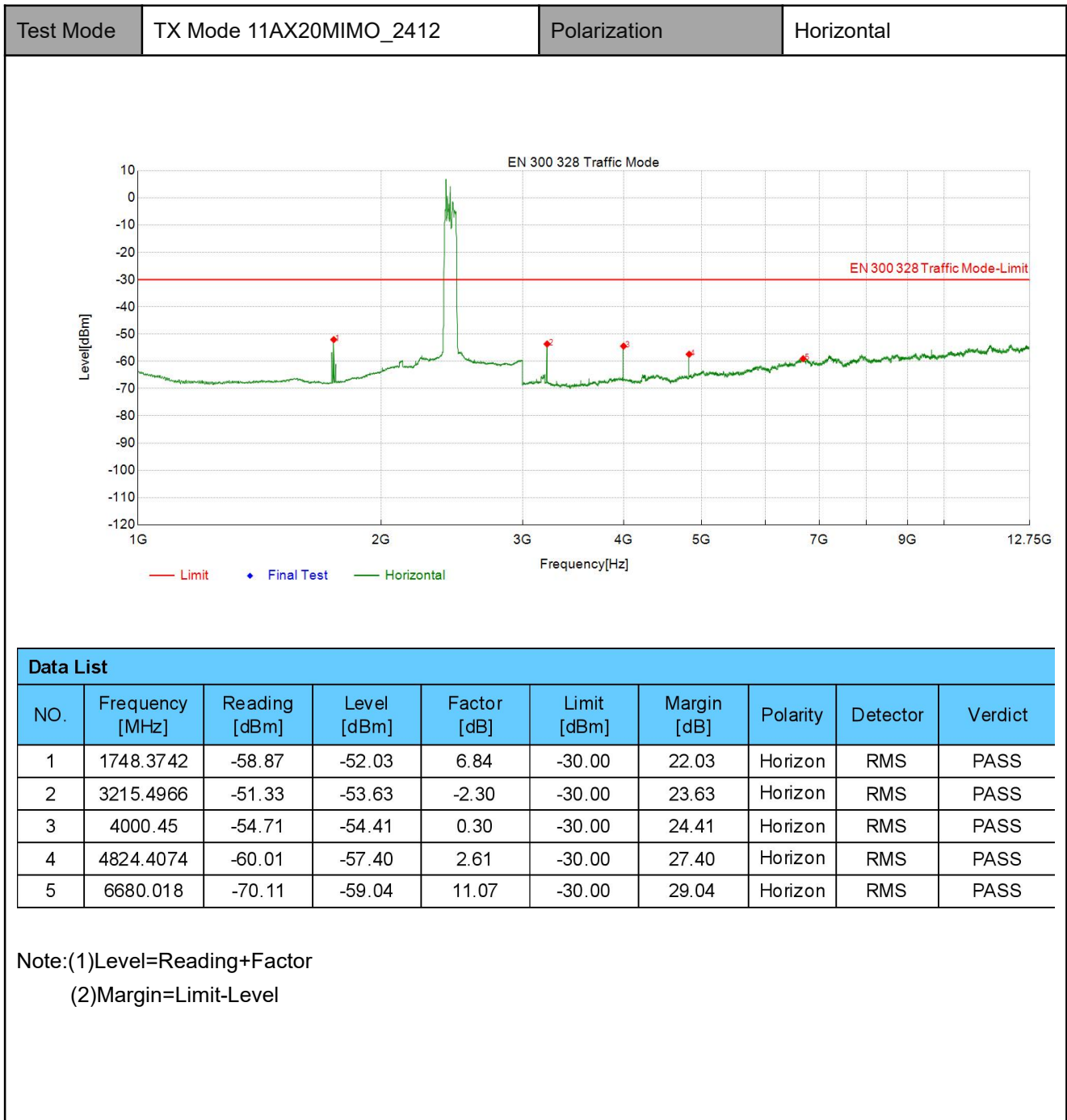


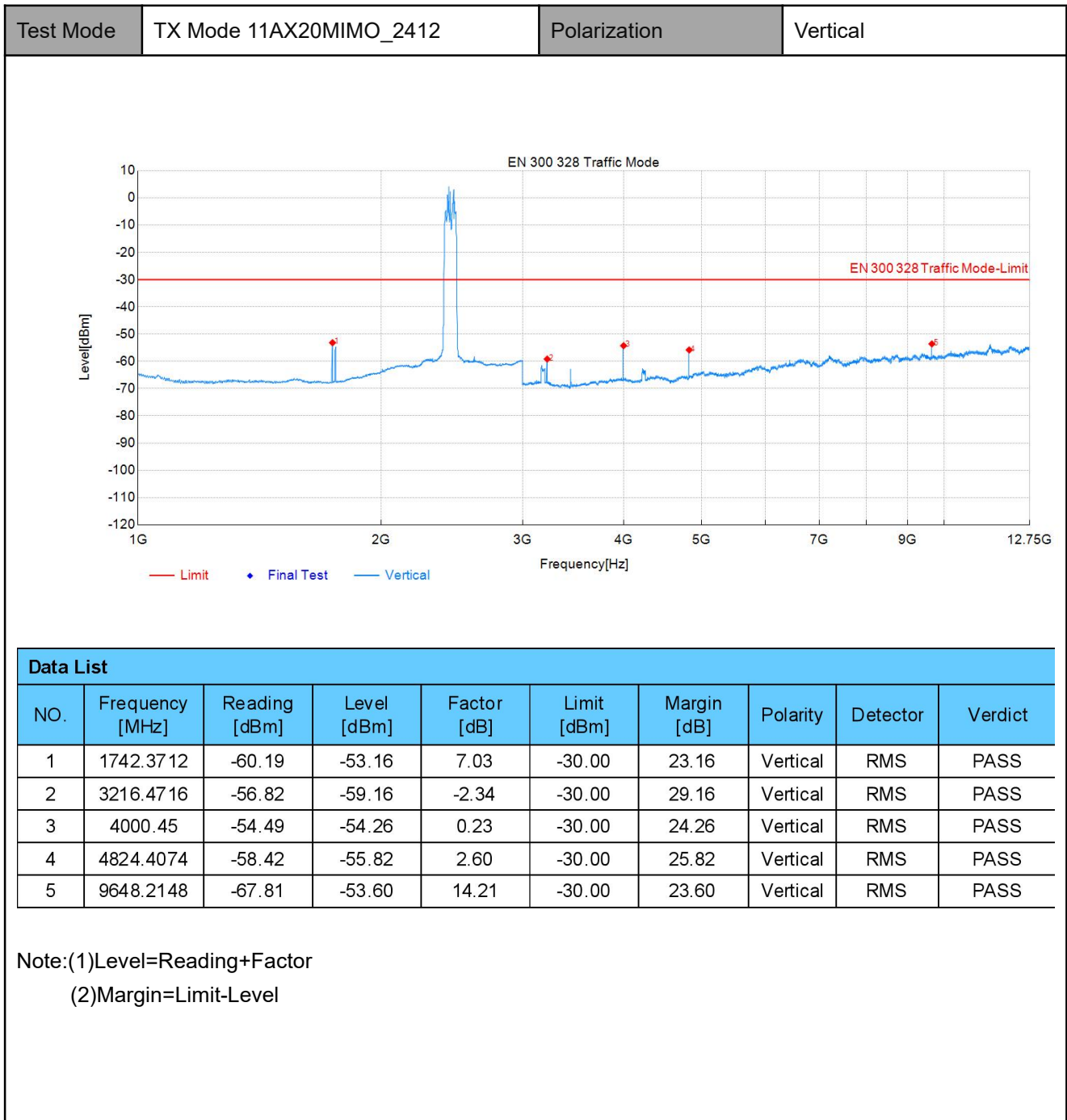




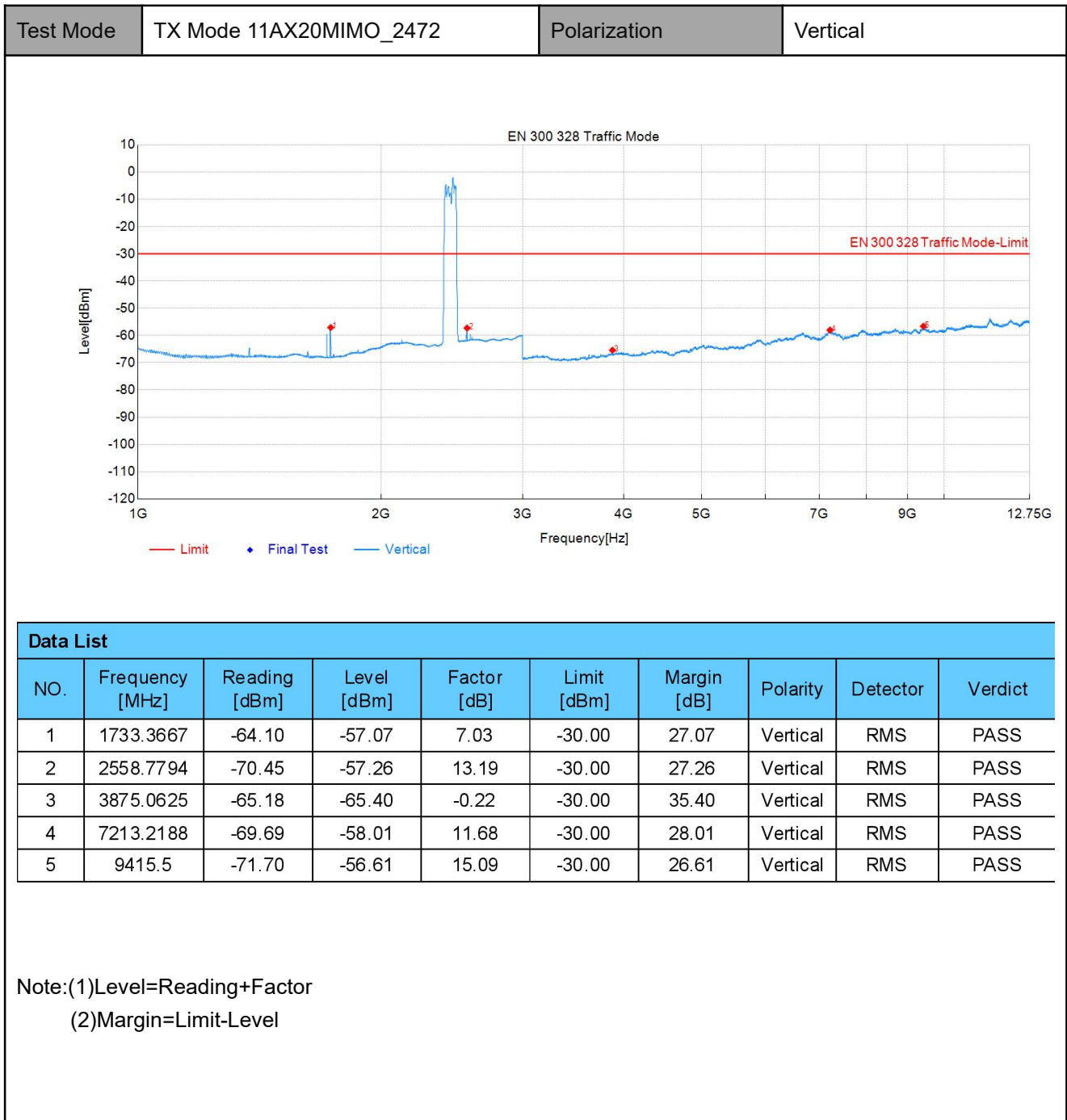


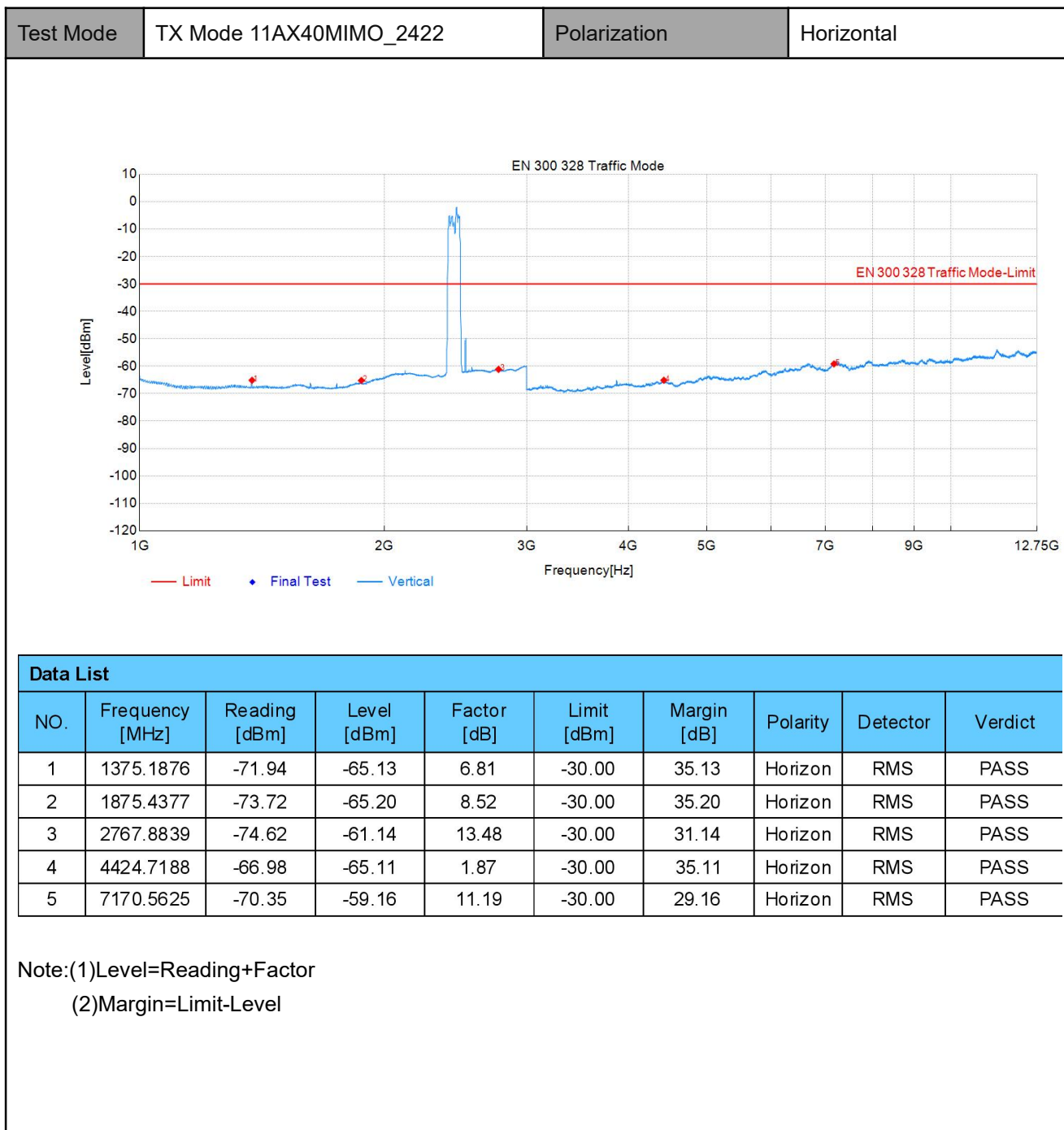


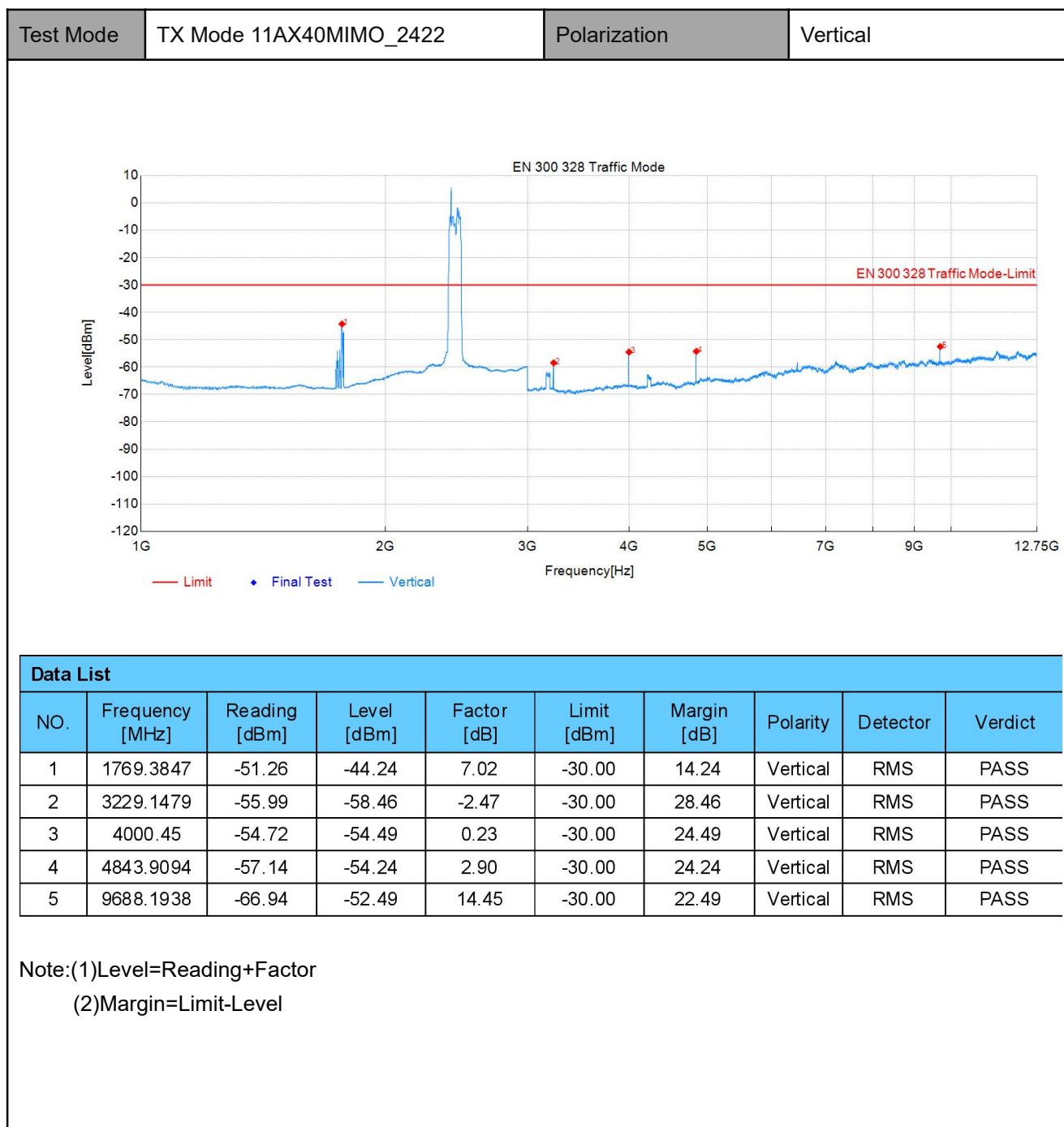


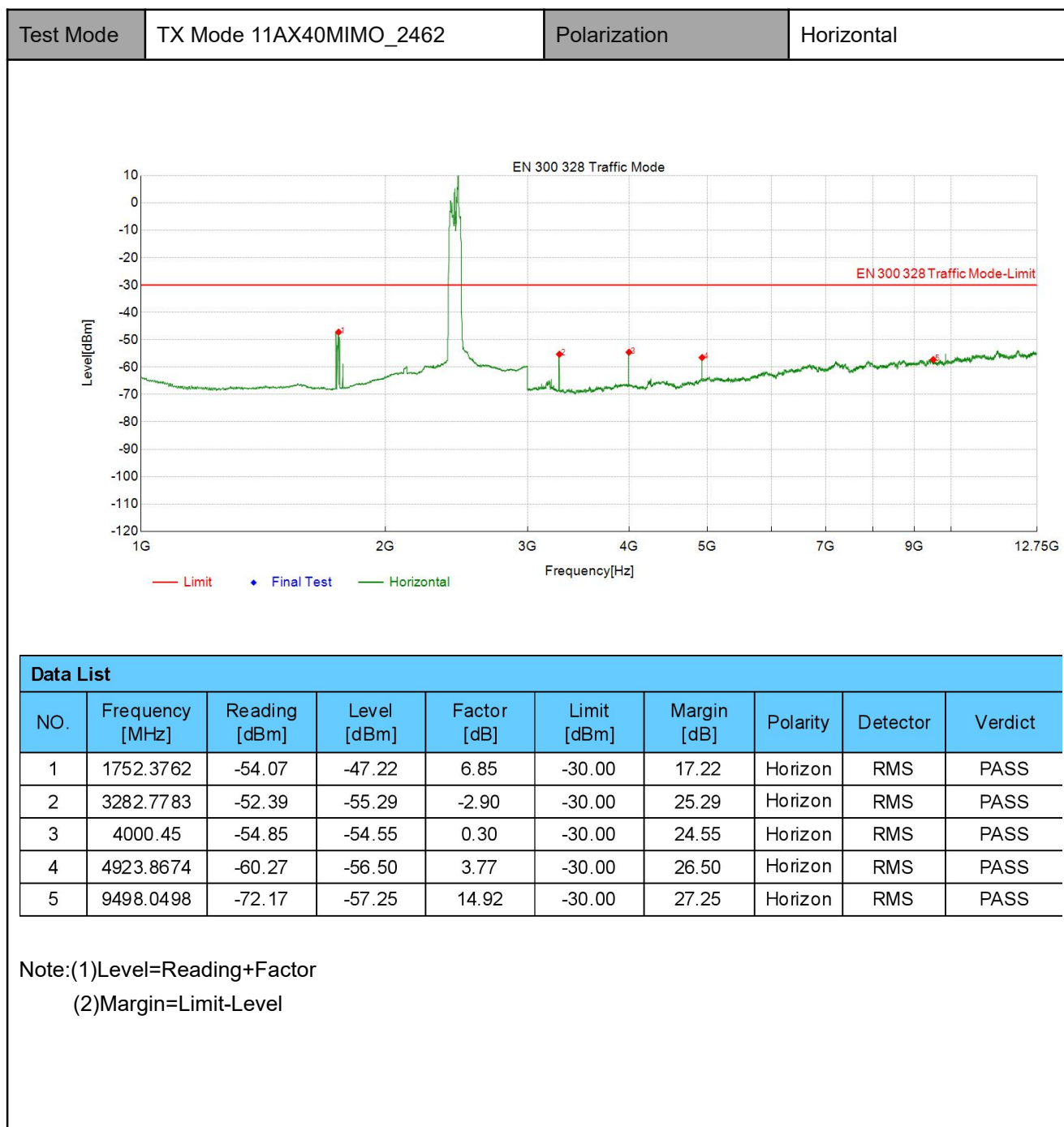


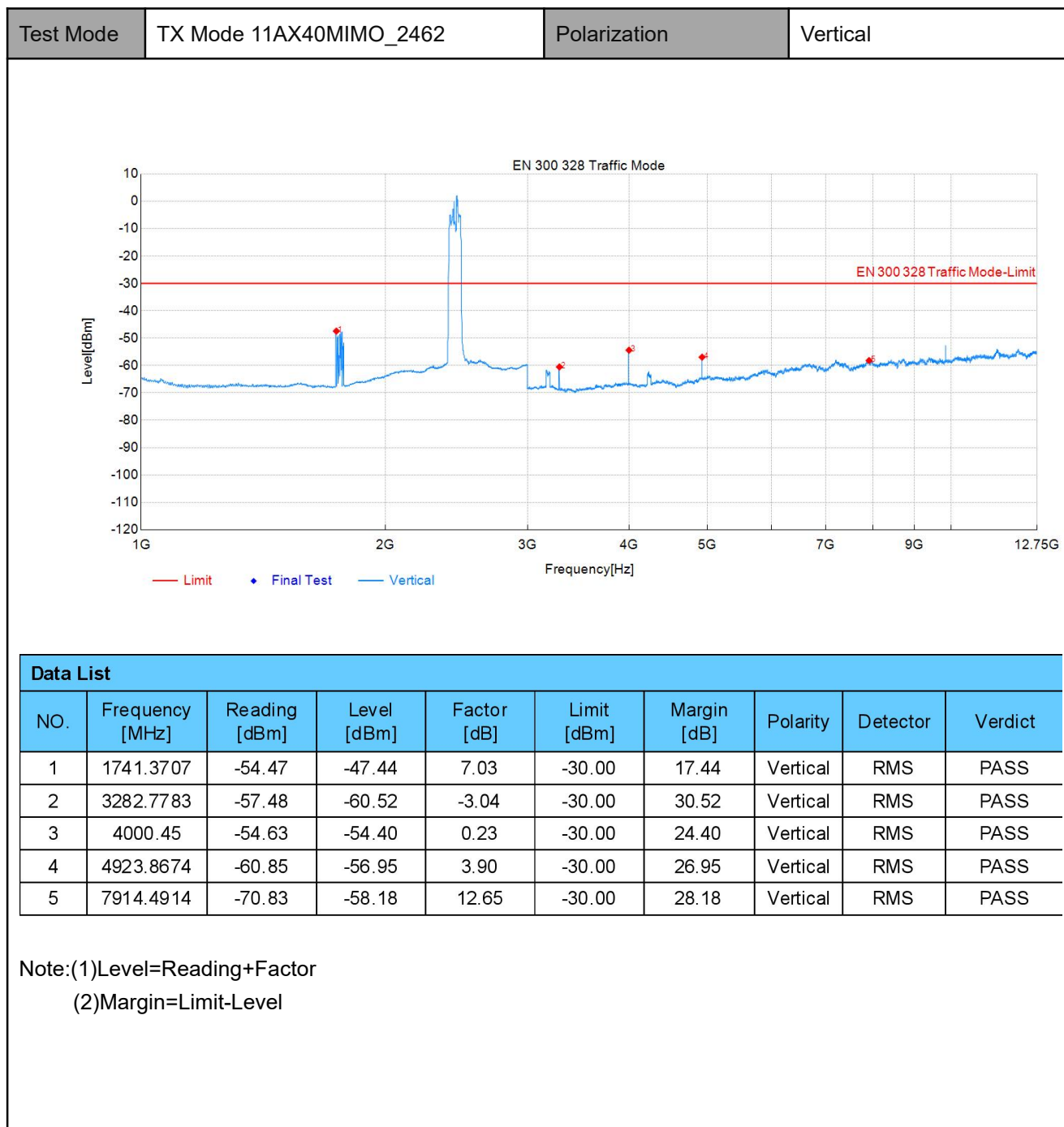
Test Mode	TX Mode 11AX20MIMO_2472	Polarization	Horizontal
Note:(1)Level=Reading+Factor (2)Margin=Limit-Level			











3.7 Receiver Spurious Emissions (Refer to clause 4.3.2.10)

3.7.1 Limit

Receiver Spurious Emissions Limit		
Frequency Range	Maximum Power	Measurement Bandwidth
30 MHz to 1 GHz	-57 dBm	100 kHz
1 GHz to 12.75 GHz	-47 dBm	1 MHz

3.7.2 Test Peripherals

Support Equipment				
No.	Equipment	Brand Name	Model Name	Remarks
1	Record PC	Lenovo	M4000q	N/A

3.7.3 Test Procedure

Test Method	
☐ Conducted Measurement	☒ Radiated Measurement
Test Channels	
☐ Lowest, Middle and Highest Channel	☒ Lowest and Highest Channel
Environmental conditions	
☒ Normal	☐ Normal and Extreme
Note: ☒ :Test ☐ :No Test	

a) The test shall be made in continuous receive mode.

b) The emissions over the range 30 MHz to 1 000 MHz shall be identified. Spectrum analyser settings as following:

30MHz ~1000MHz	
RBW	100 kHz
VBW	300 kHz
Detector Mode	Peak
Trace Mode	Max Hold
Sweep Points	≥ 19400
Sweep Time	Auto

c) Wait for the trace to stabilize. Any emissions identified during the pre-scan sweeps that fall within the 6 Db range below the applicable limit, shall be individually measured using the procedure in step g to step i.

d) The emissions over the range 1 GHz to 12.75 GHz shall be identified. Spectrum analyser settings as follow:

1GHz~ 12.75GHz	
RBW	1 MHz
VBW	3 MHz
Detector Mode	Peak
Trace Mode	Max Hold
Sweep Points	≥ 23500

Sweep Time	Auto
------------	------

e) Wait for the trace to stabilize. Any emissions identified during the pre-scan sweeps that fall within the 6 Db range below the applicable limit, shall be individually measured using the procedure in step g to step i.

f) The procedure in step h to step k below shall be used to accurately measure the individual unwanted emissions identified during the pre-scan measurements above. This method assumes the spectrum analyser has a Time Domain Power Function.

g) The level of the emissions shall be measured using the following spectrum analyser settings:

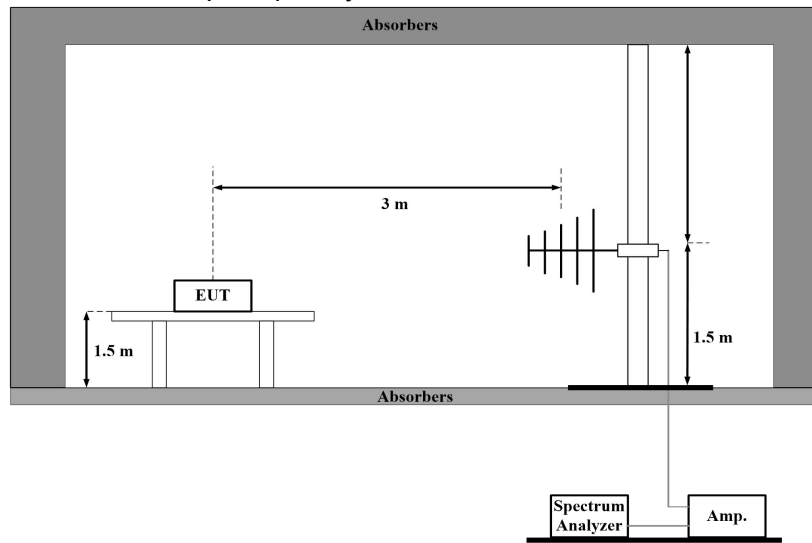
Measurement mode	Time Domain Power
Centre Frequency	Frequency of the emission identified during the pre-scan
RBW	100 kHz (emissions < 1 GHz) / 1 MHz (emissions > 1 GHz)
VBW	300 kHz (emissions < 1 GHz) / 3 MHz (emissions > 1 GHz)
Frequency Span	Zero Span
Sweep mode	Single Sweep
Sweep time	30ms
Sweep Points	≥ 30000
Trigger	Video
Detector	RMS

h) Set a window where the start and stop indicators match the start and end of the burst with the highest level and record the value of the power measured within this window. If the spurious emission to be measured is a continuous transmission, the measurement window shall be set to match the start and stop times of the sweep.

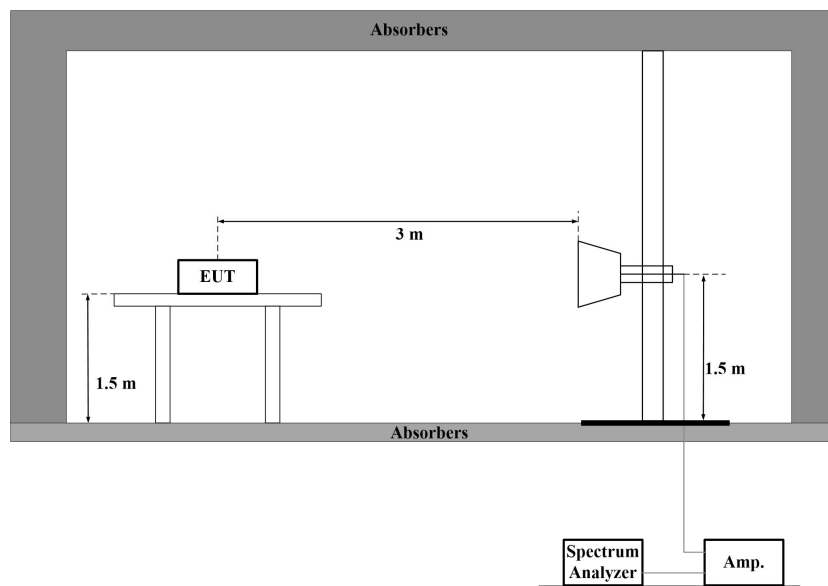
i) The value defined in step g shall be compared to the limits and be recorded.

3.7.4 Test Configuration

Radiated measurement test set-up frequency below 1 GHz



Radiated measurement test set-up frequency above 1 GHz



3.7.5 The Result of Receiver Spurious Emissions

NOTE The test results and plot for testing range of “30 MHz to 12.75 GHz” showed as below is Part of the worst case for all Test Modes and Channels.

3.7.5.1 Test Result

TestMode	Antenna	Test Channel (MHz)	Result [dBm]	Limit[dBm]	Verdict
11B-CDD	All	2412	See test graph	See test graph	PASS
11B-CDD	All	2472	See test graph	See test graph	PASS
11G-CDD	All	2412	See test graph	See test graph	PASS
11G-CDD	All	2472	See test graph	See test graph	PASS
11N20MIMO	All	2412	See test graph	See test graph	PASS
11N20MIMO	All	2472	See test graph	See test graph	PASS
11N40MIMO	All	2422	See test graph	See test graph	PASS
11N40MIMO	All	2462	See test graph	See test graph	PASS
11AX20MIMO	All	2412	See test graph	See test graph	PASS
11AX20MIMO	All	2472	See test graph	See test graph	PASS
11AX40MIMO	All	2422	See test graph	See test graph	PASS
11AX40MIMO	All	2462	See test graph	See test graph	PASS

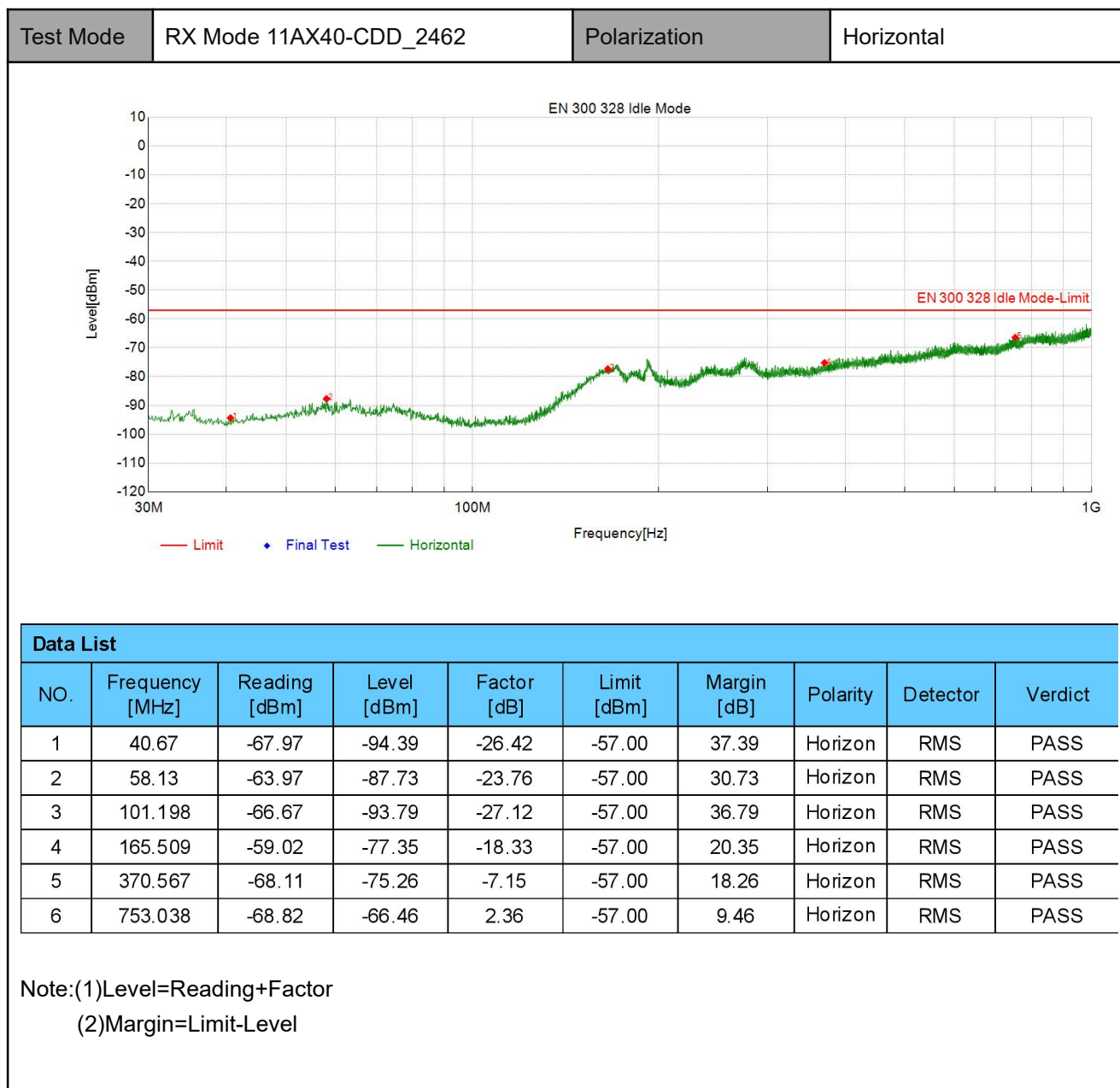
Note:

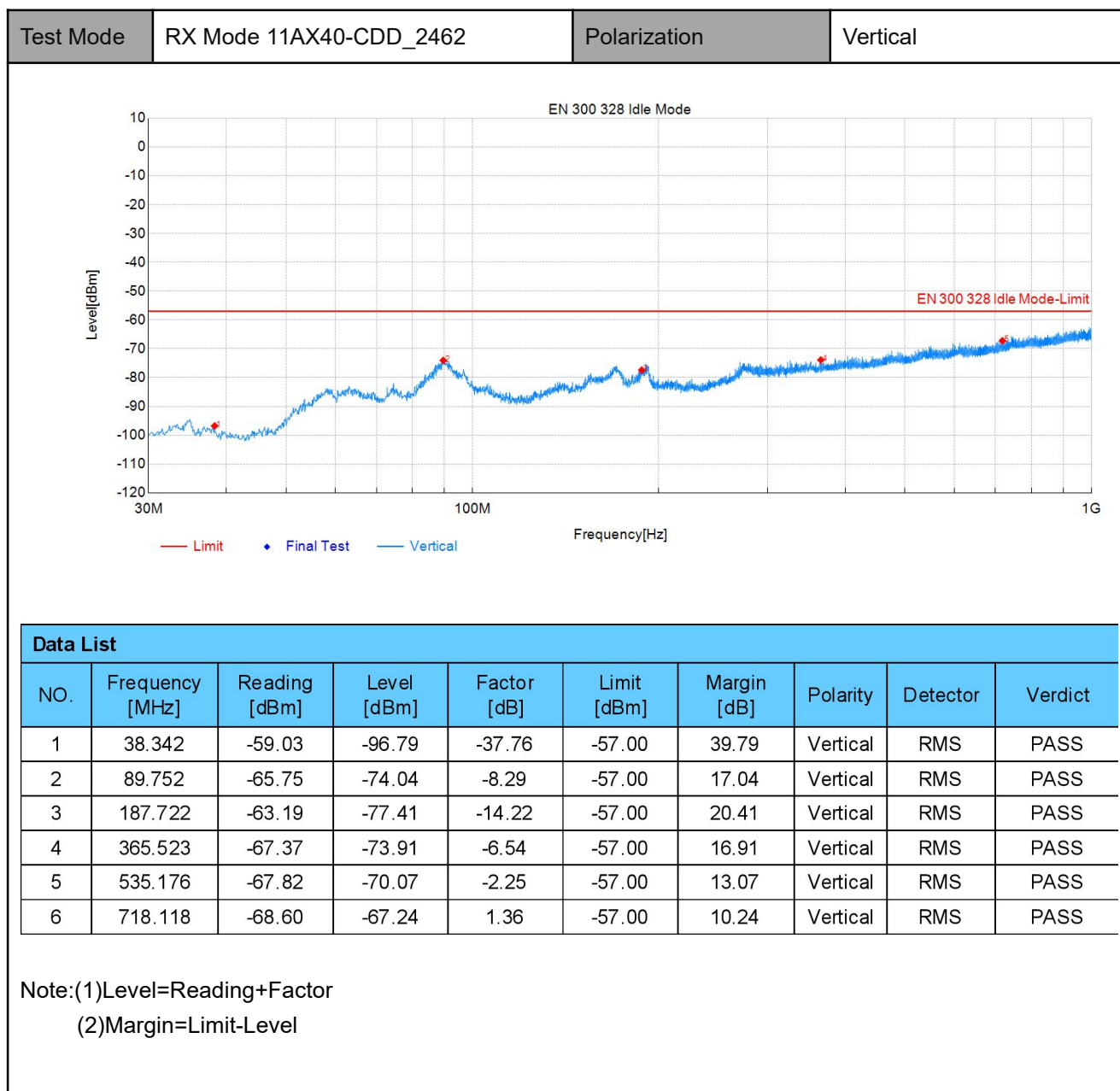
1.By preliminary testing and verifying three axis (X, Y and Z) position of EUT transmitted status, it was found that “X axis” position was the worst, and test data recorded in this report.

3.7.5.2 Test Graphs

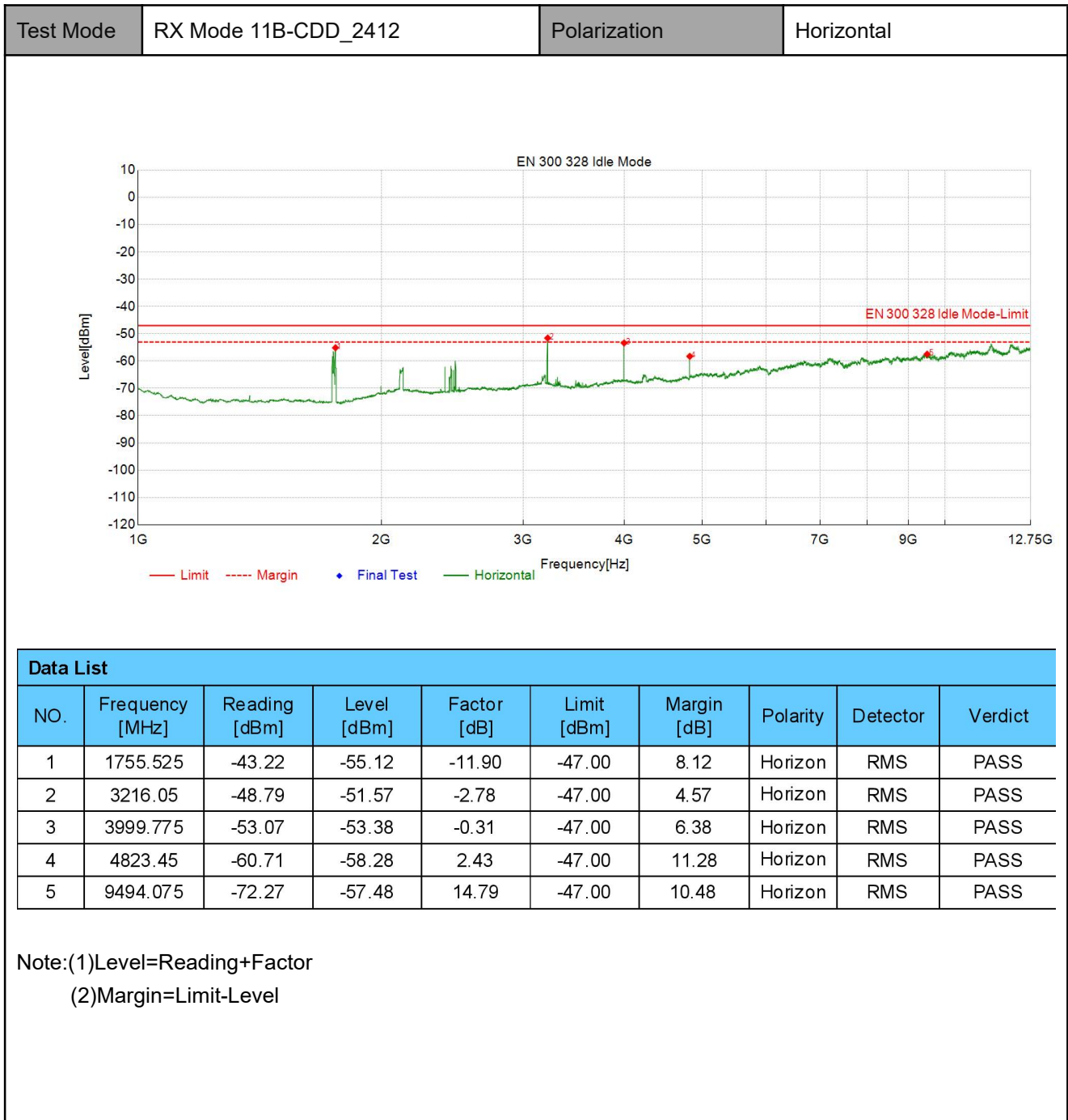
Test Environment	
Temperature(°C)	24.1
Humidity (%RH)	52.8

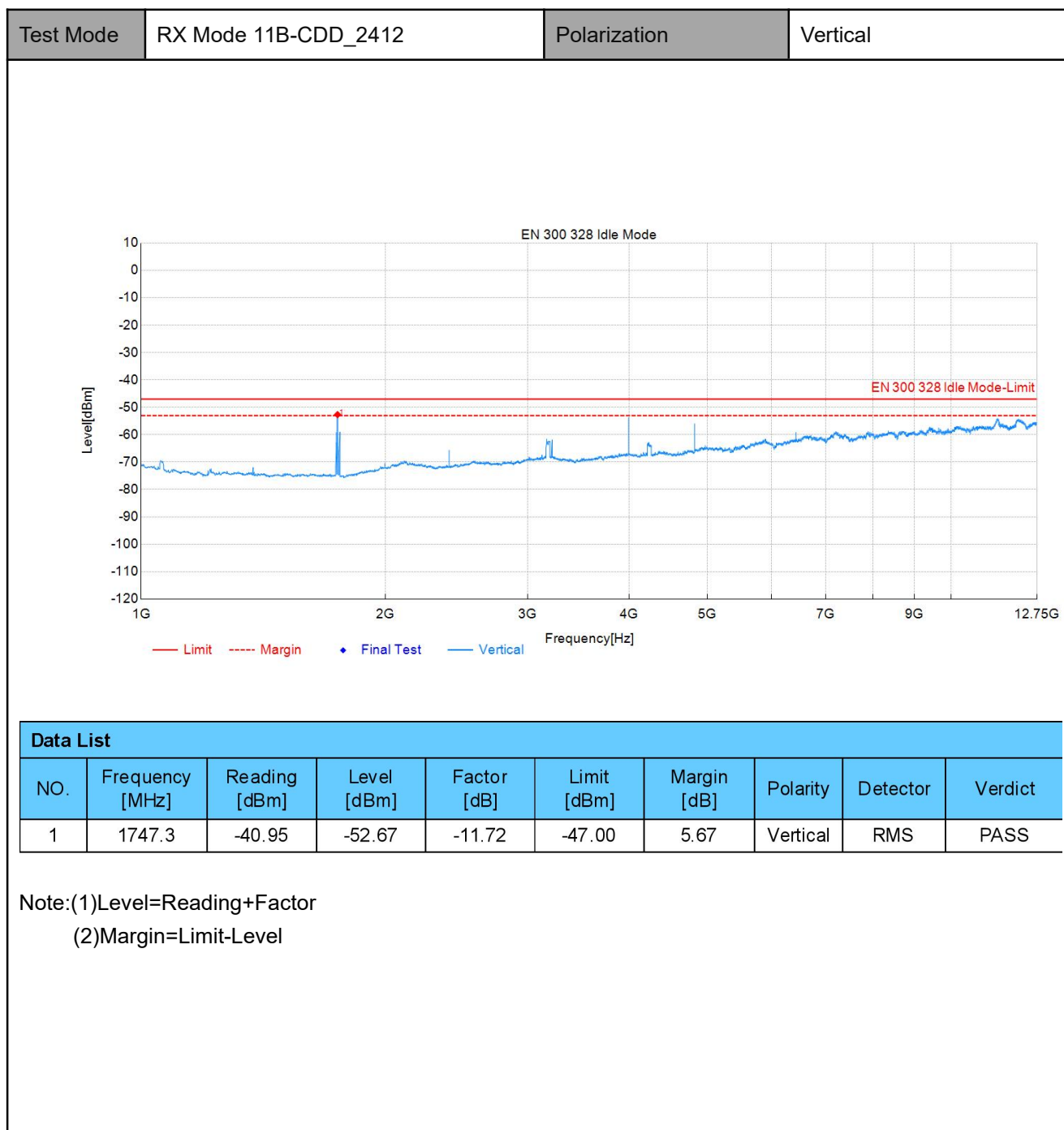
30 MHz to 1 GHz :

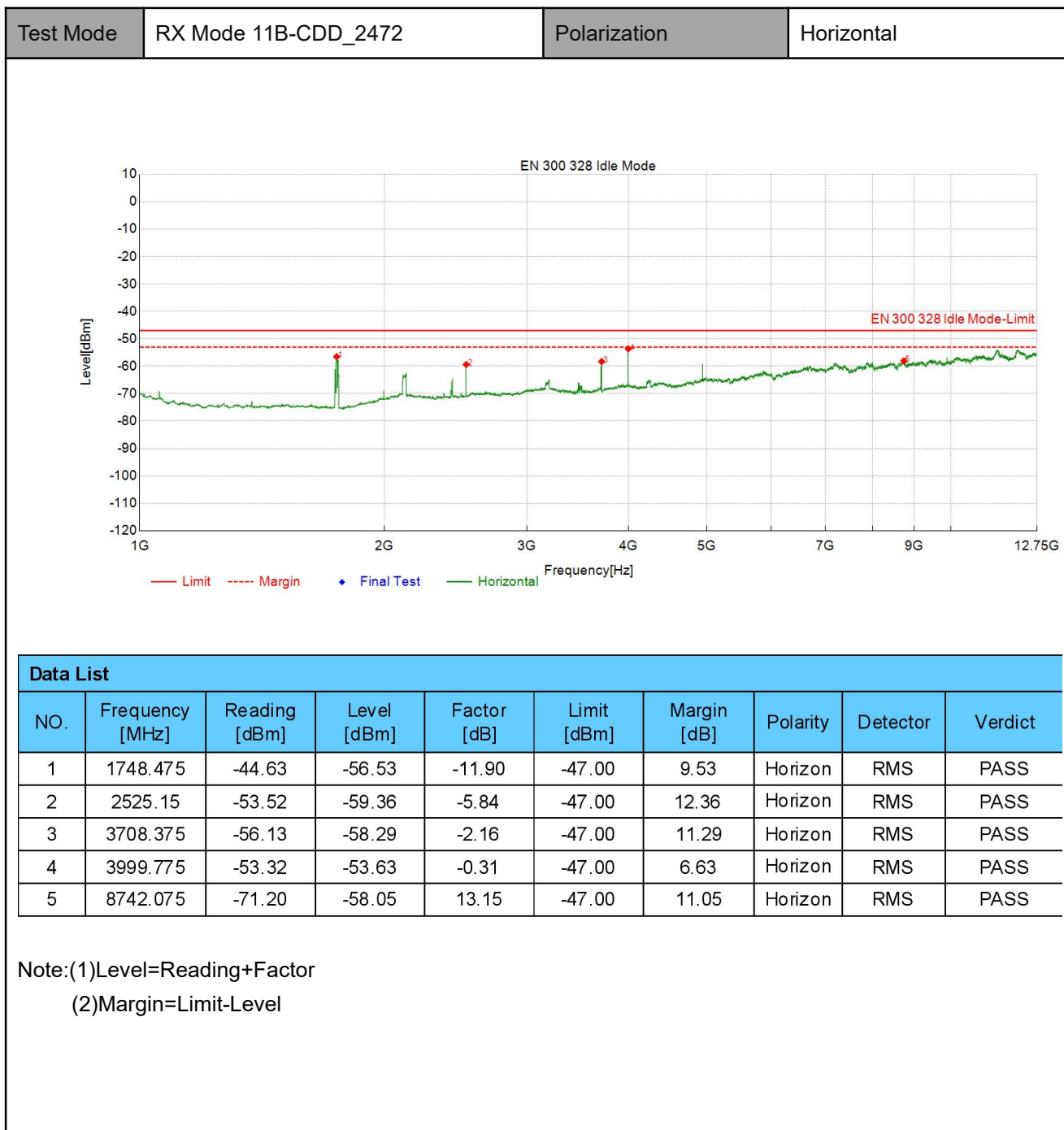


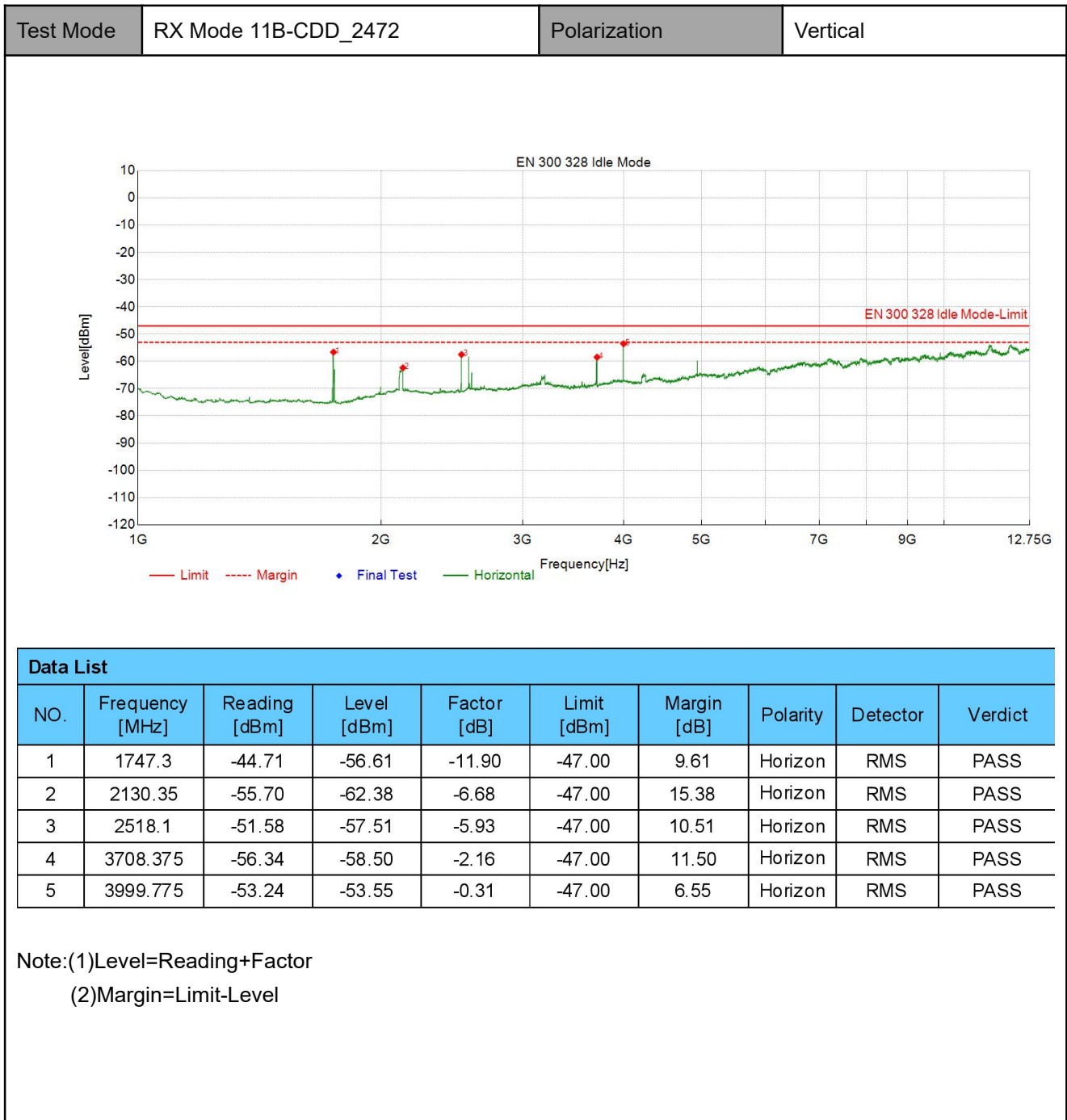


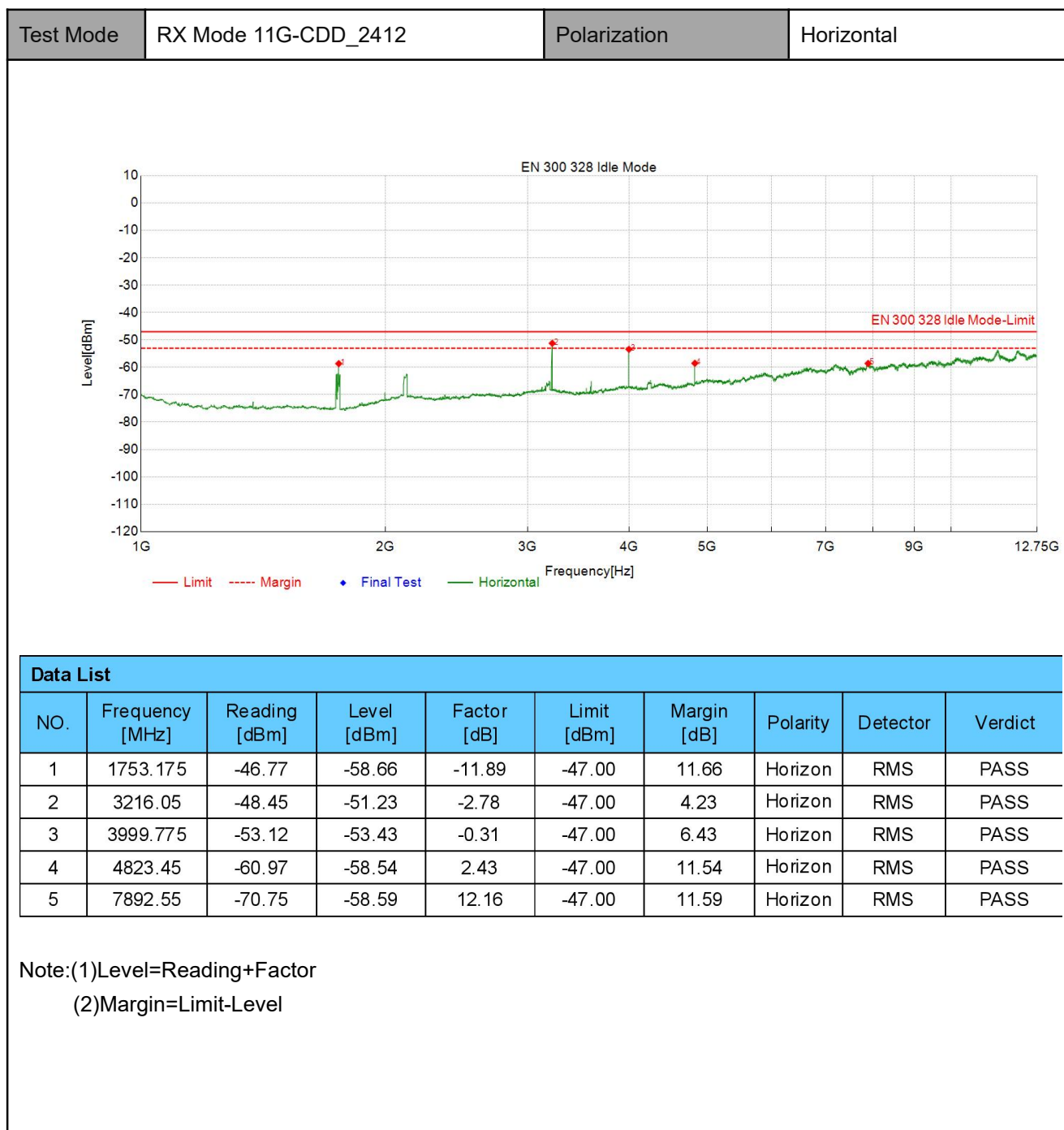
1 GHz to 12.75 GHz :

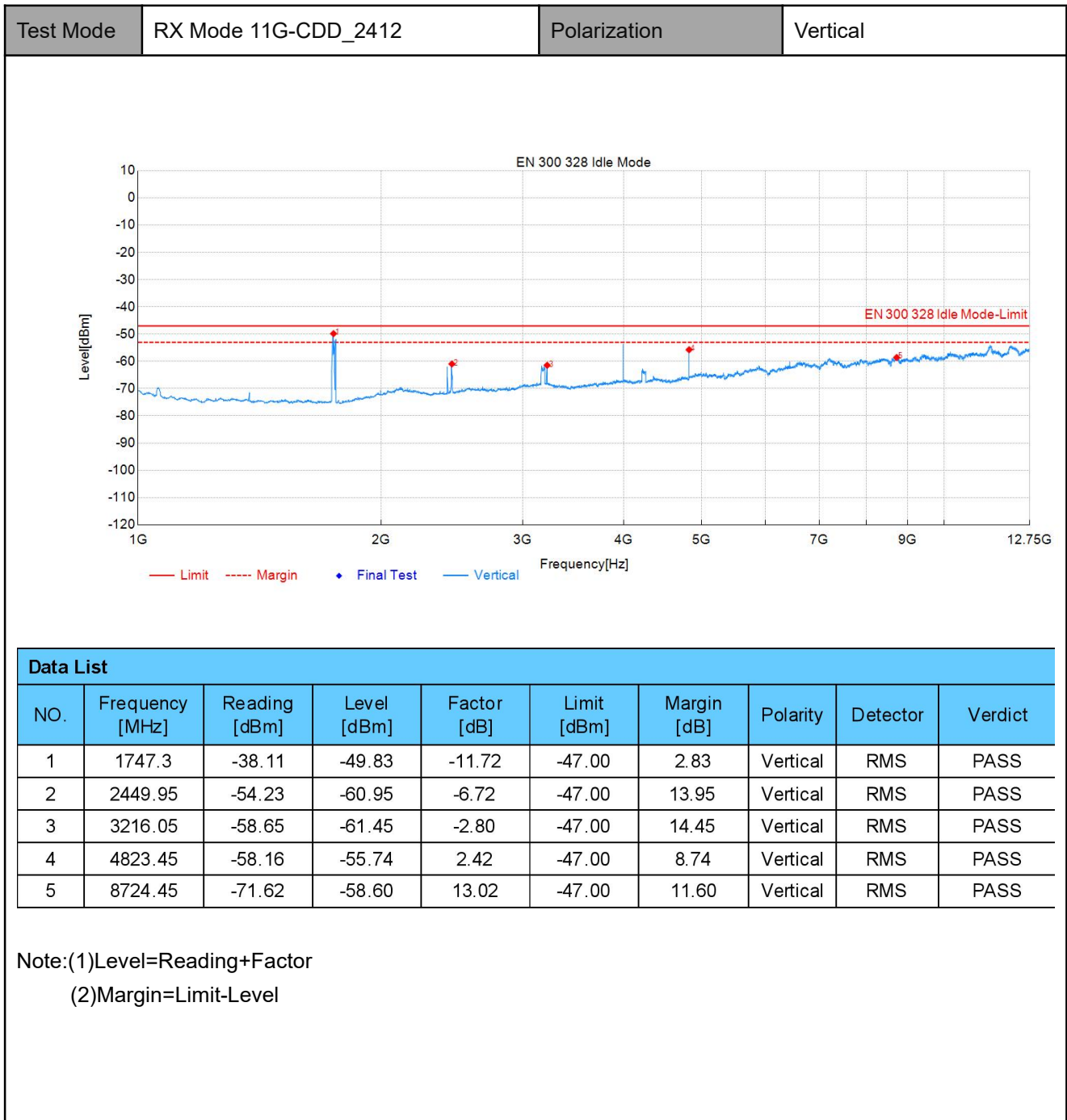


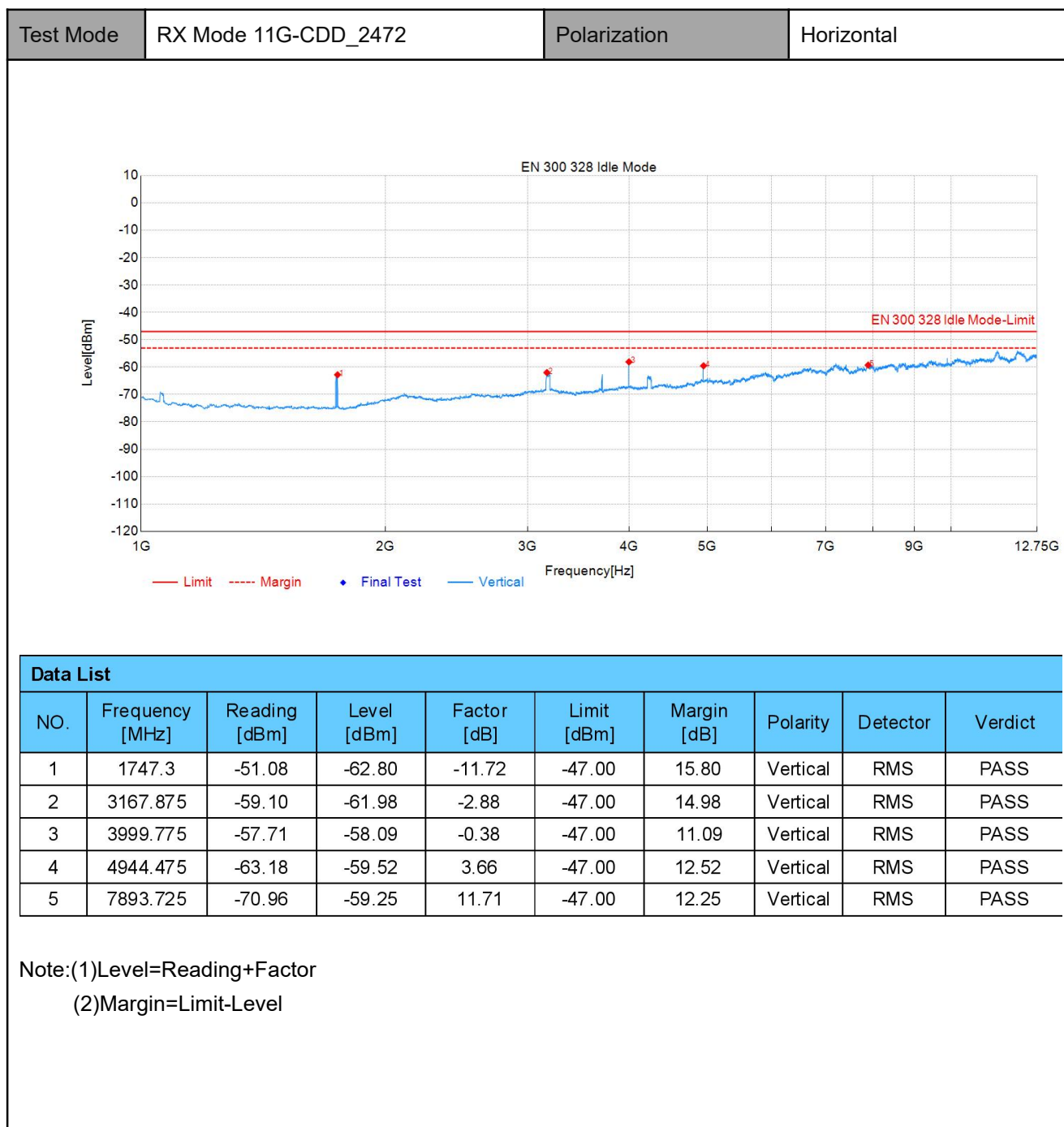


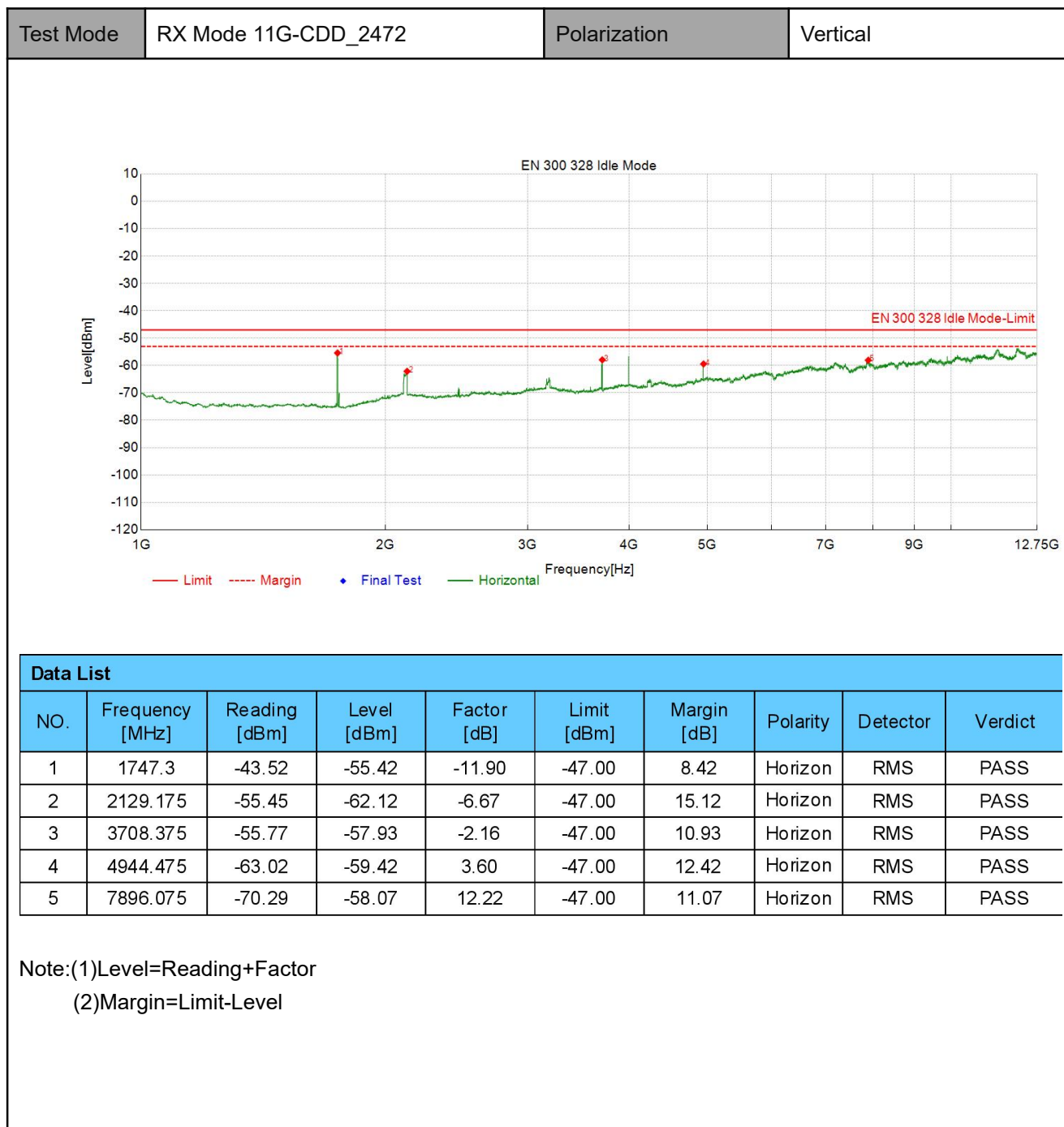


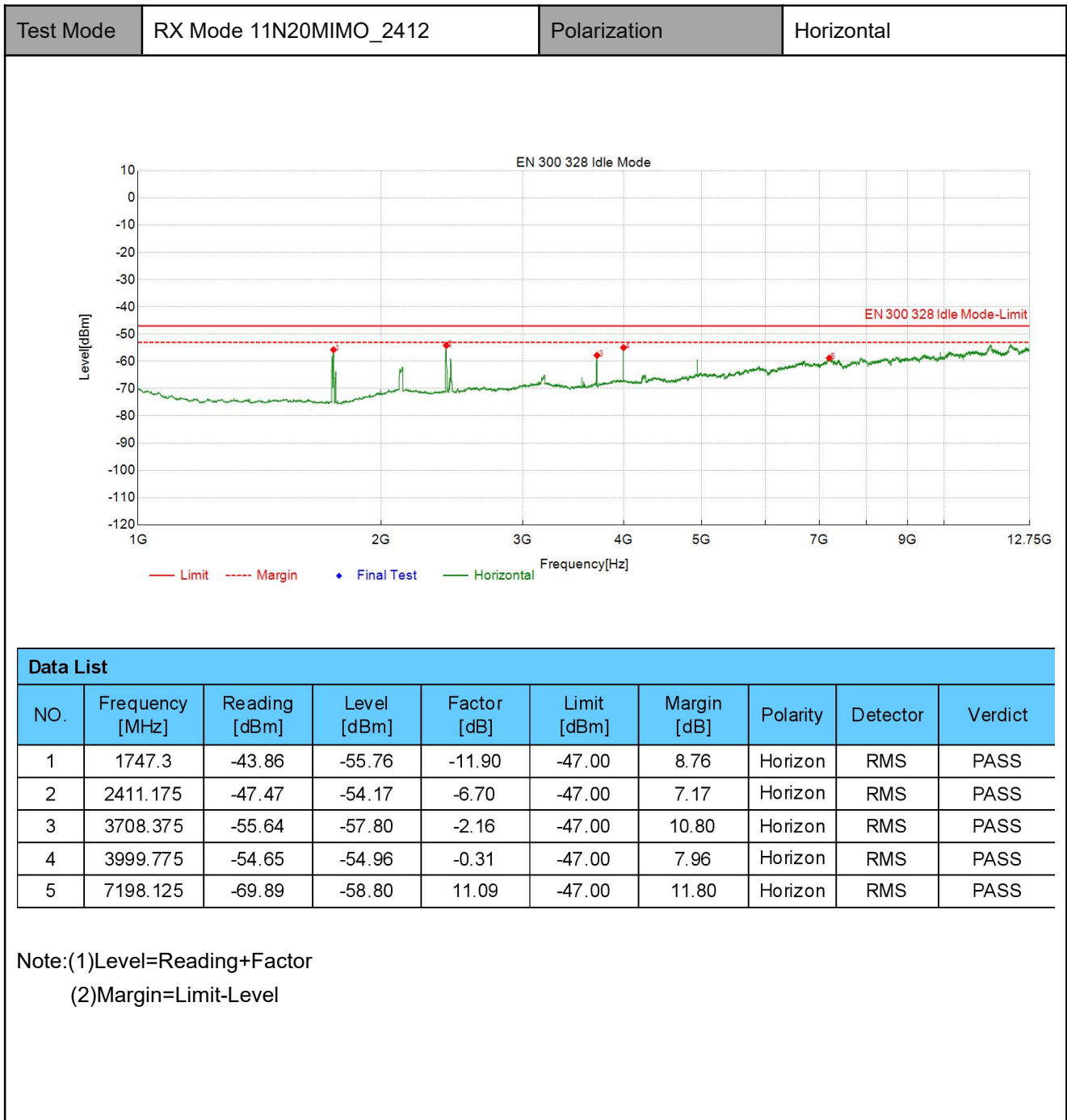


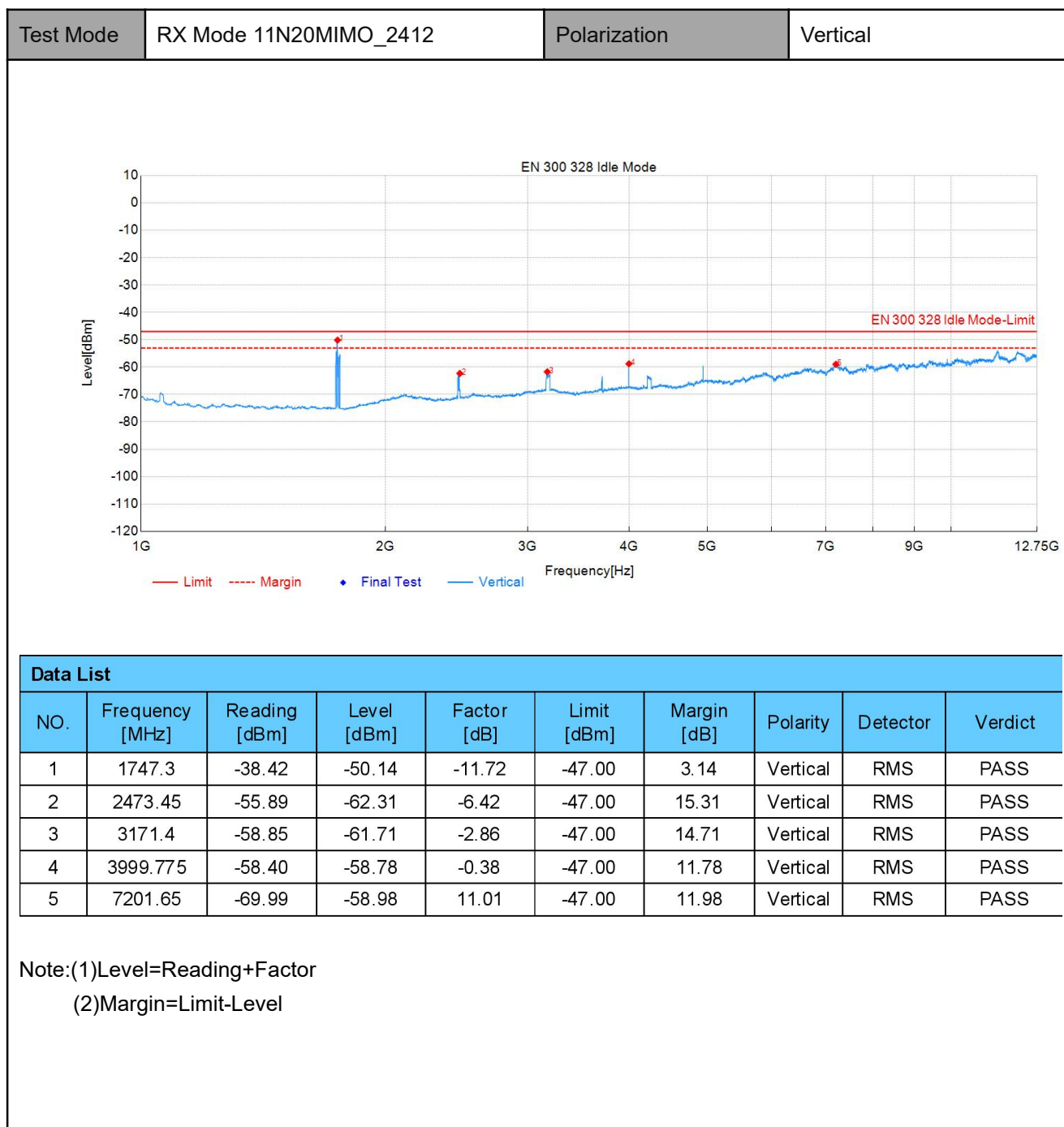


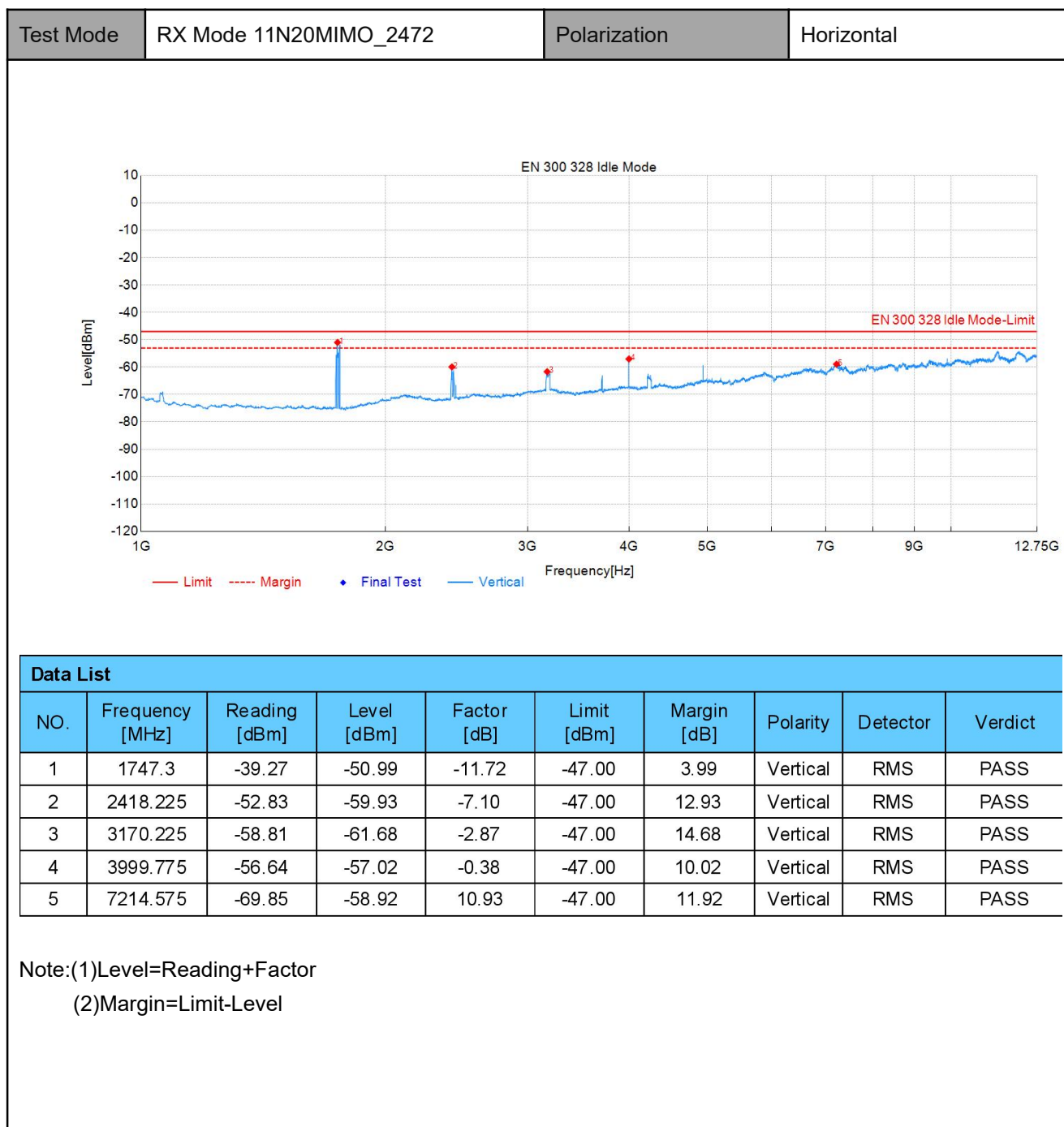


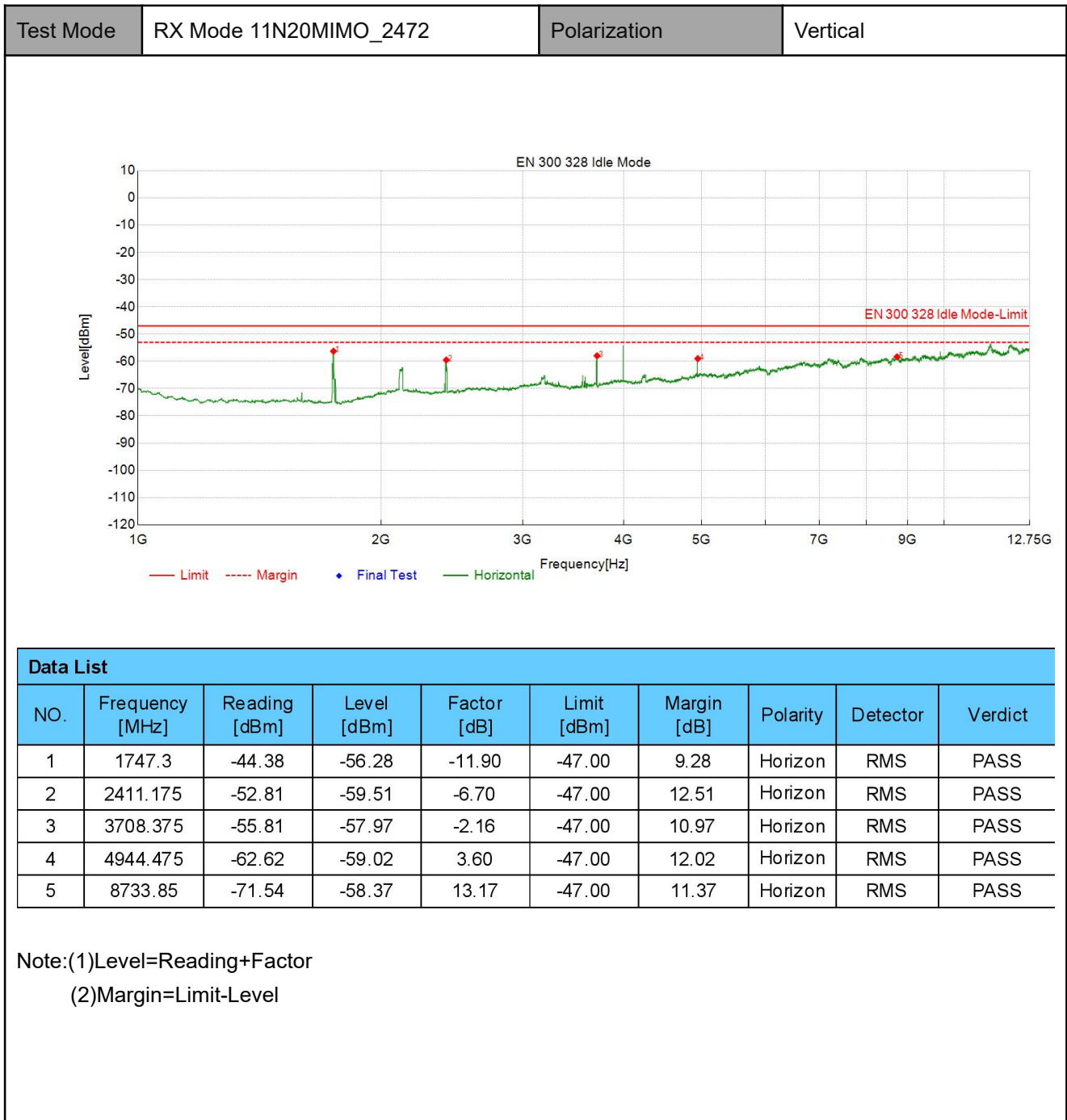


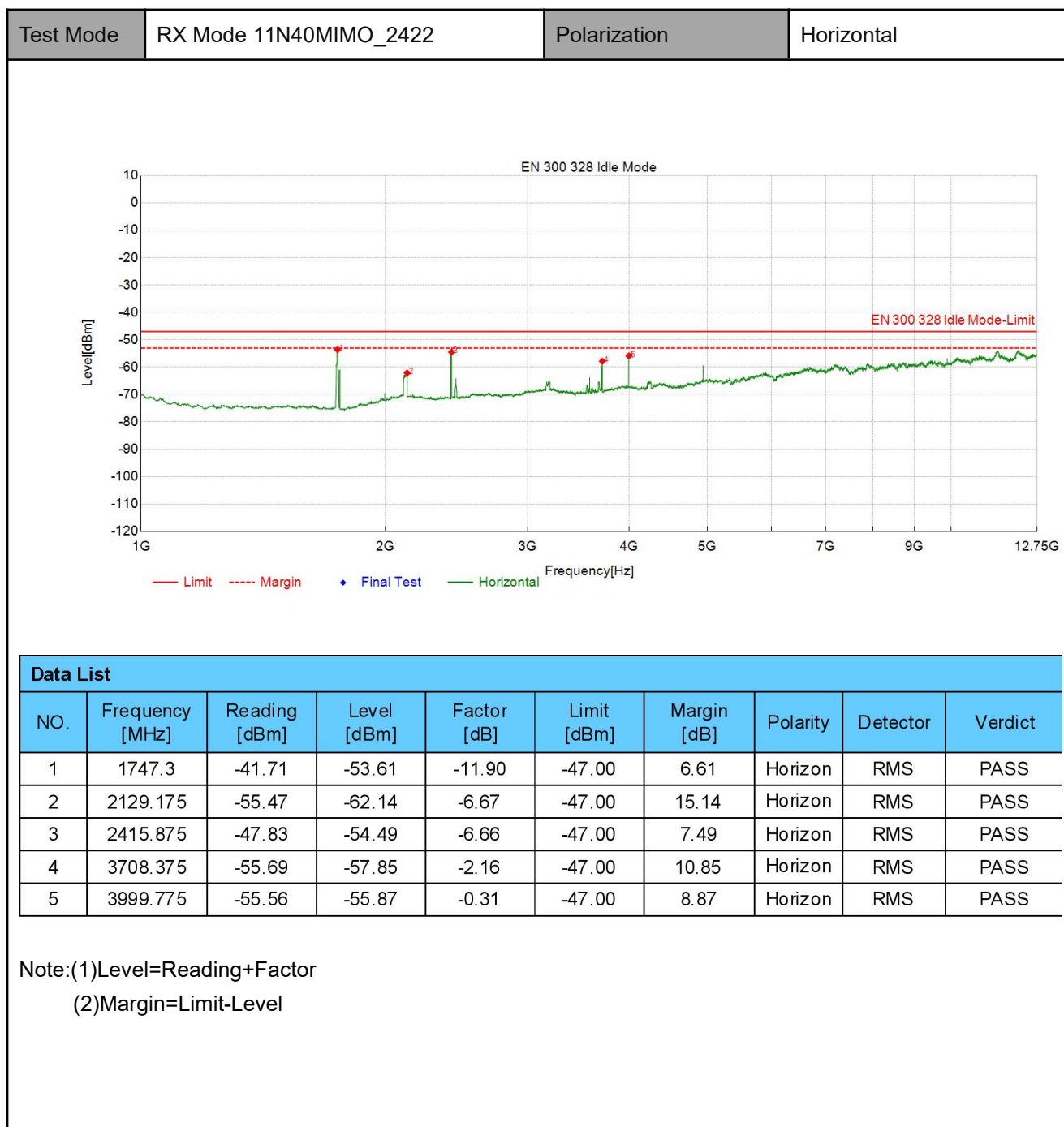


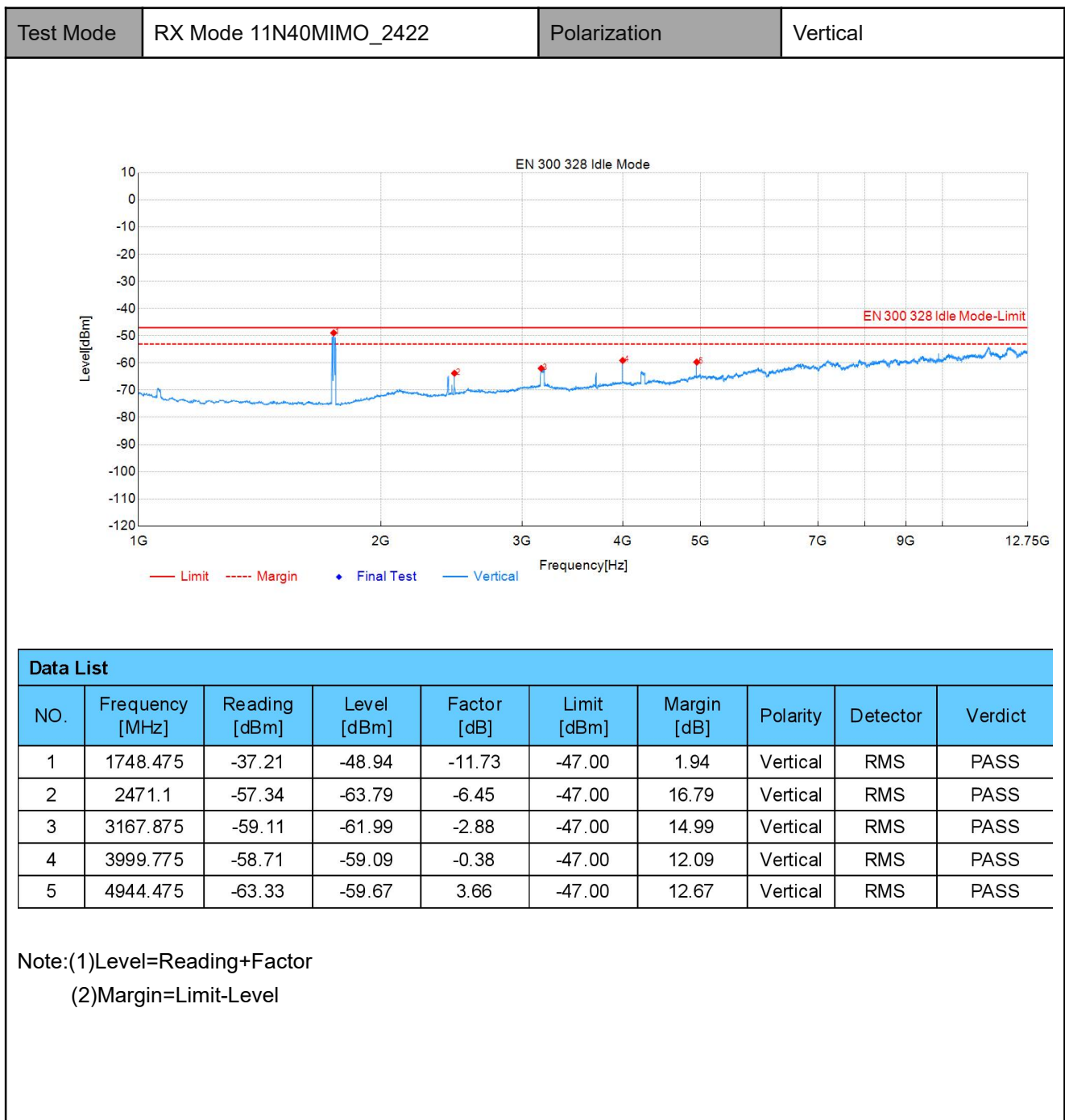


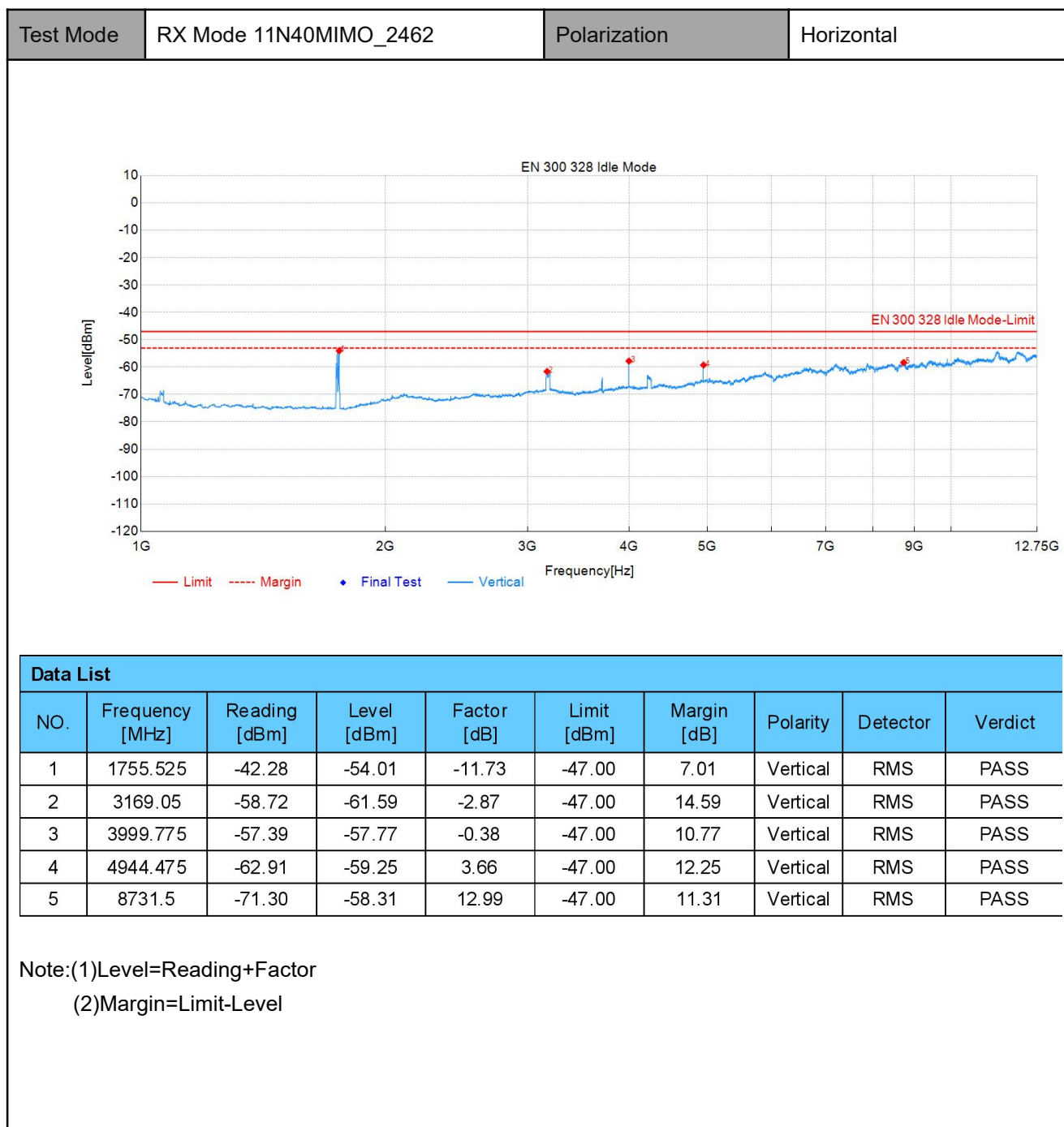


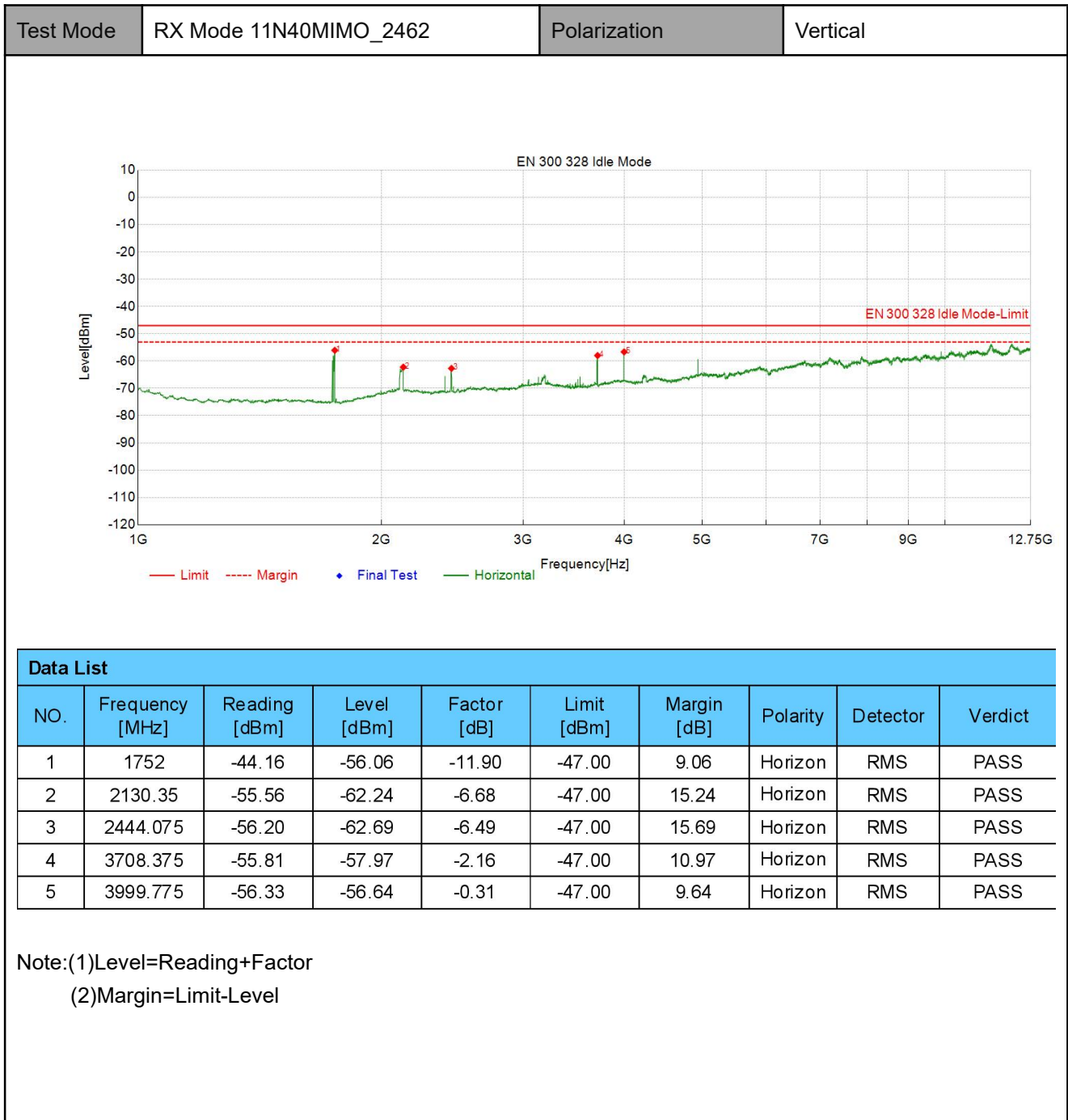


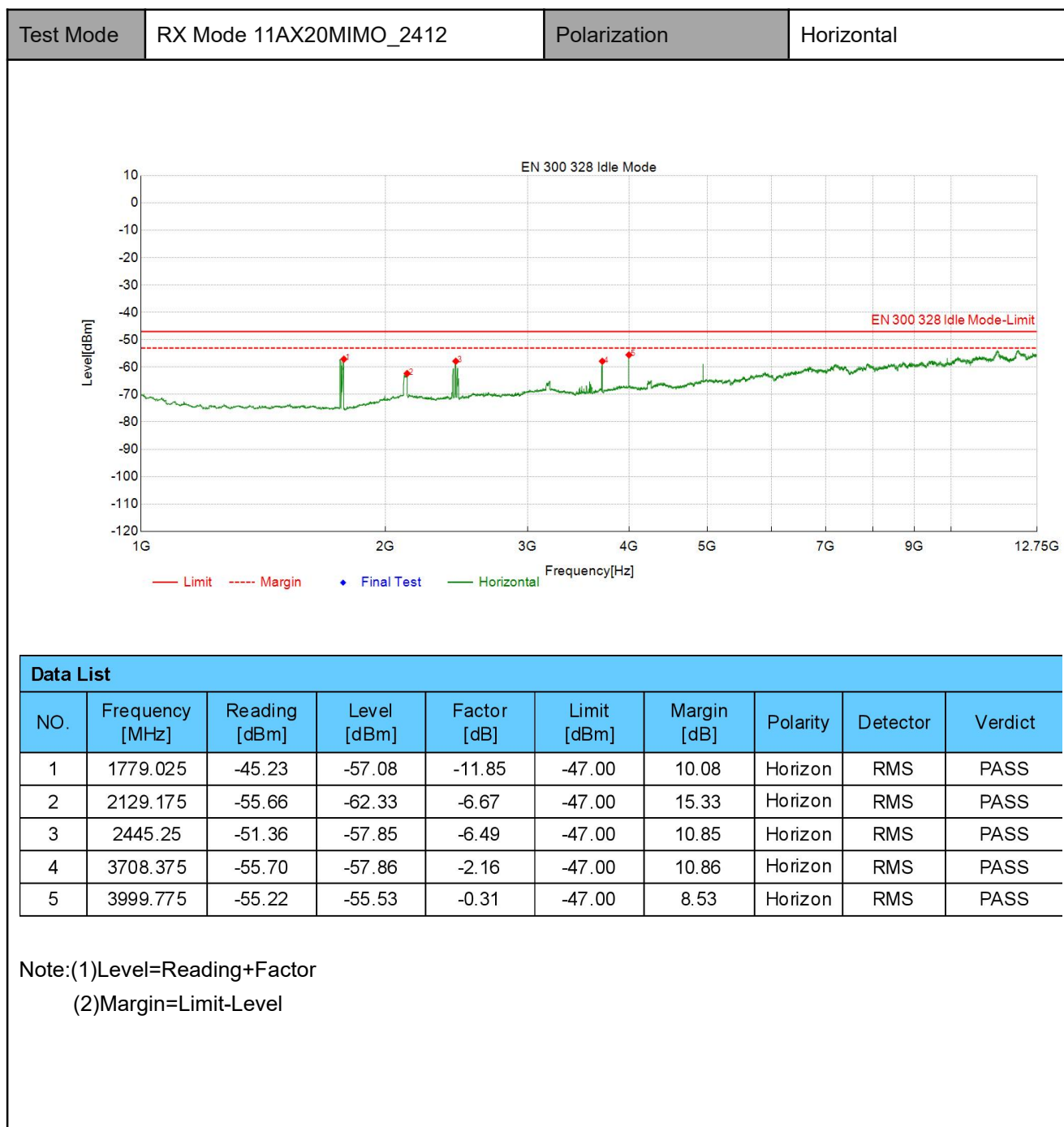


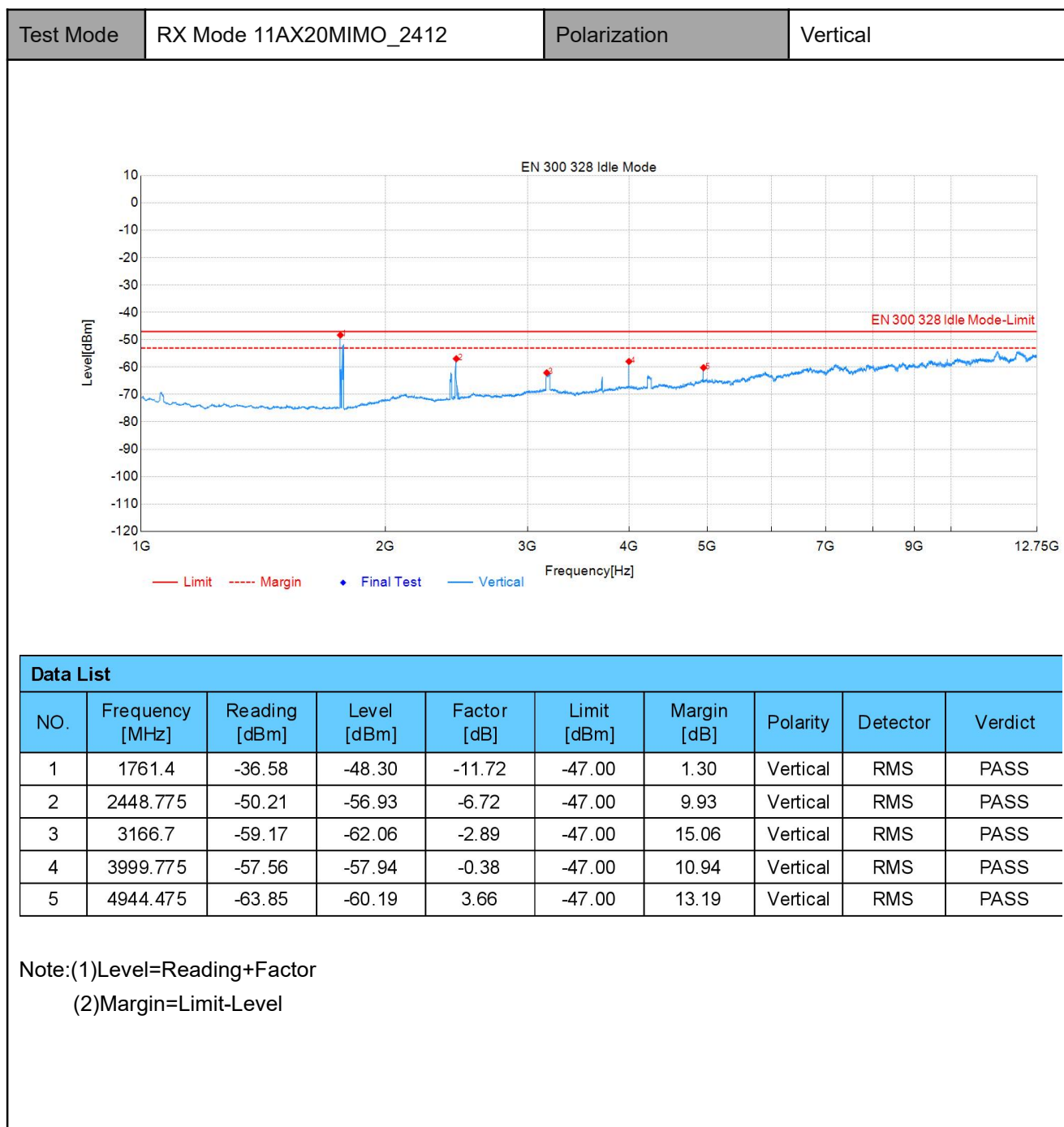


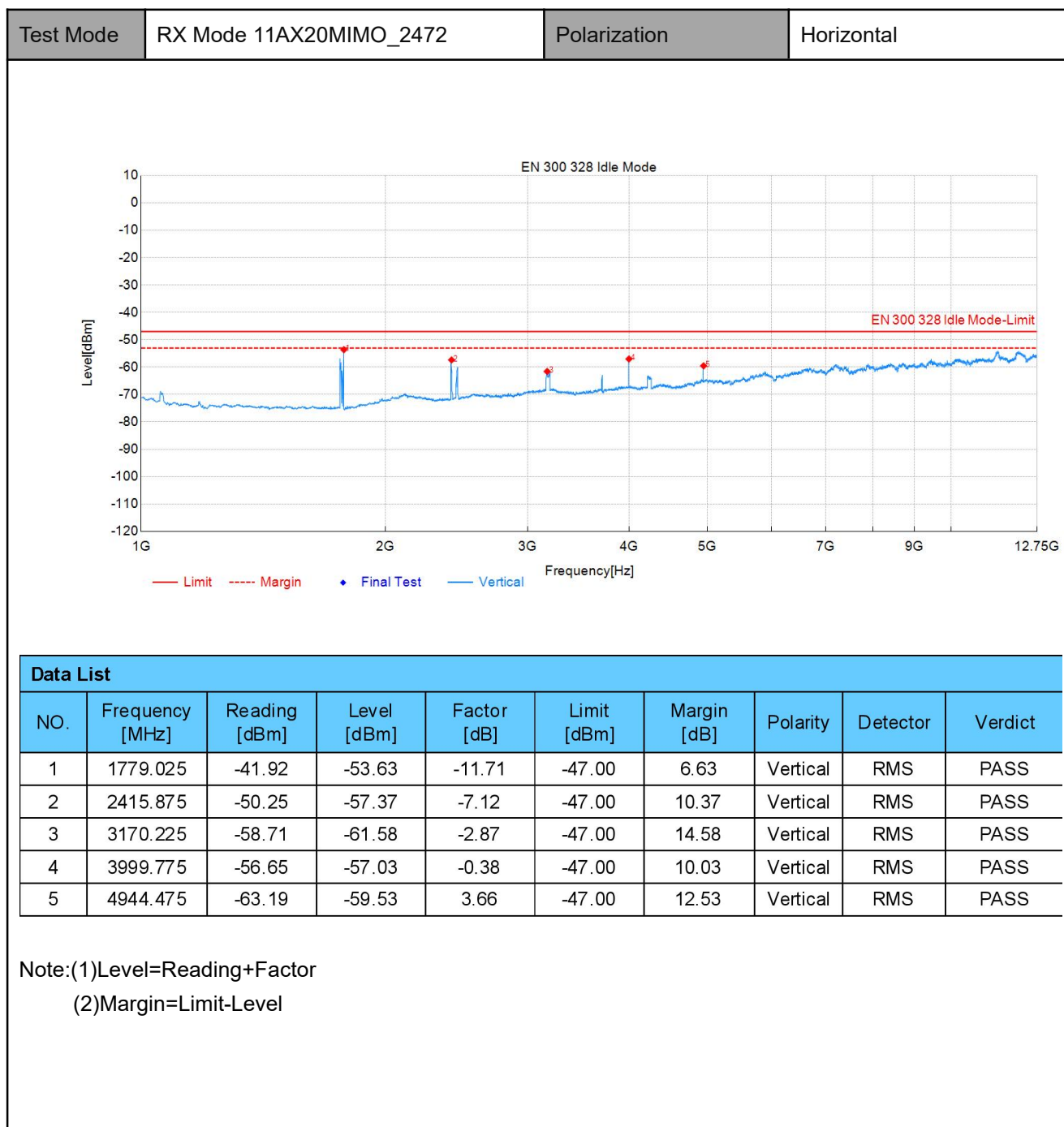


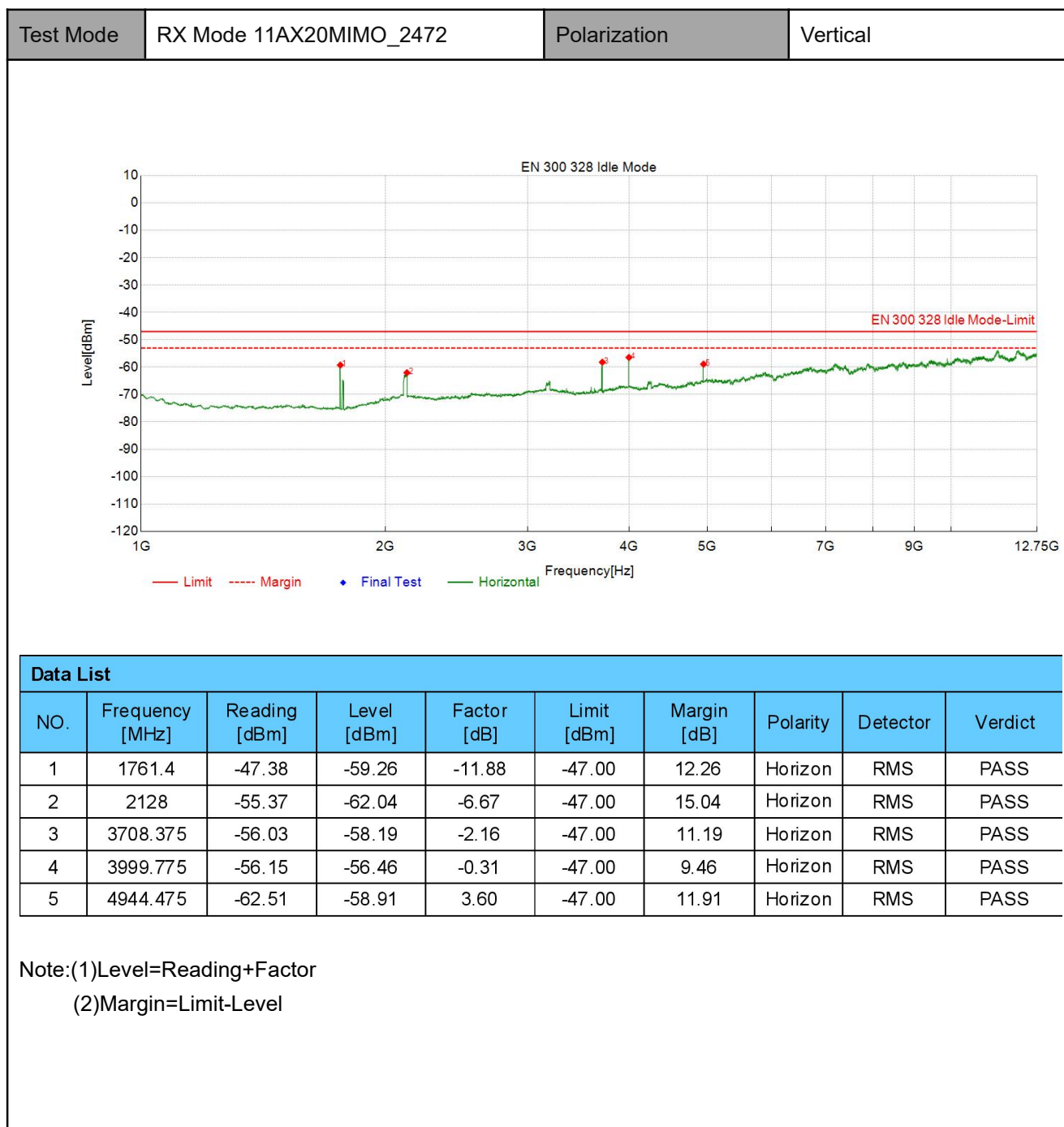


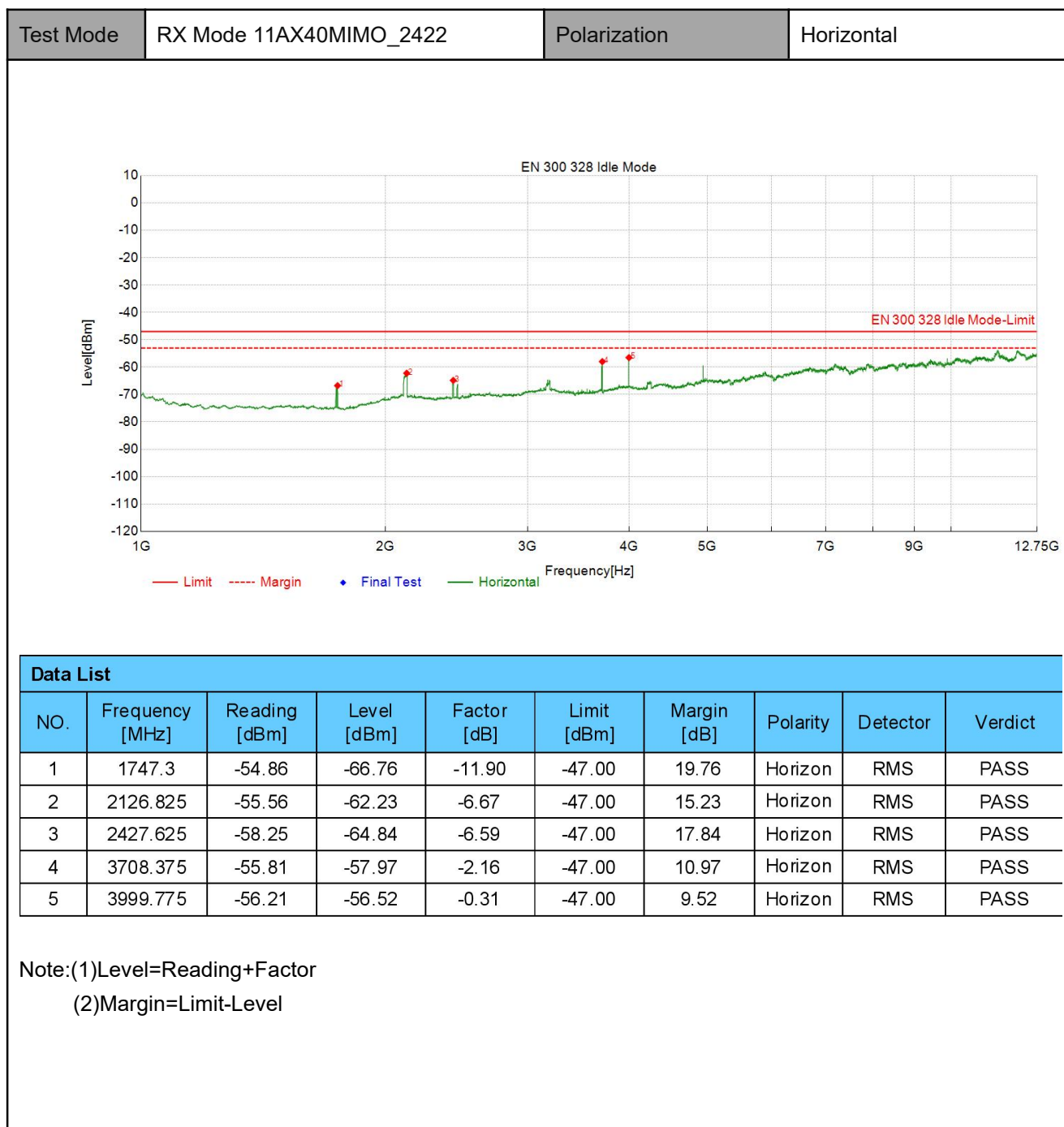


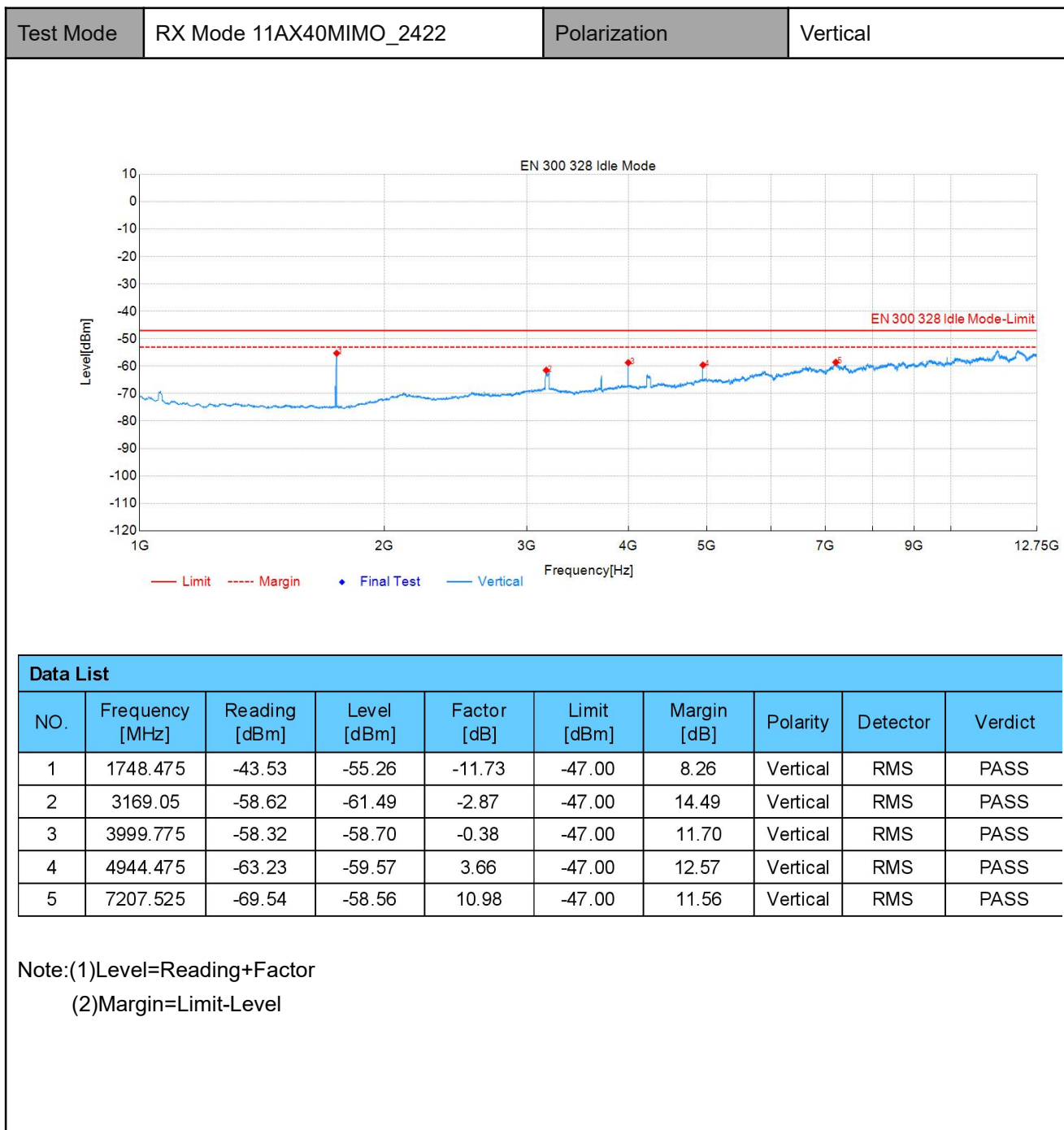


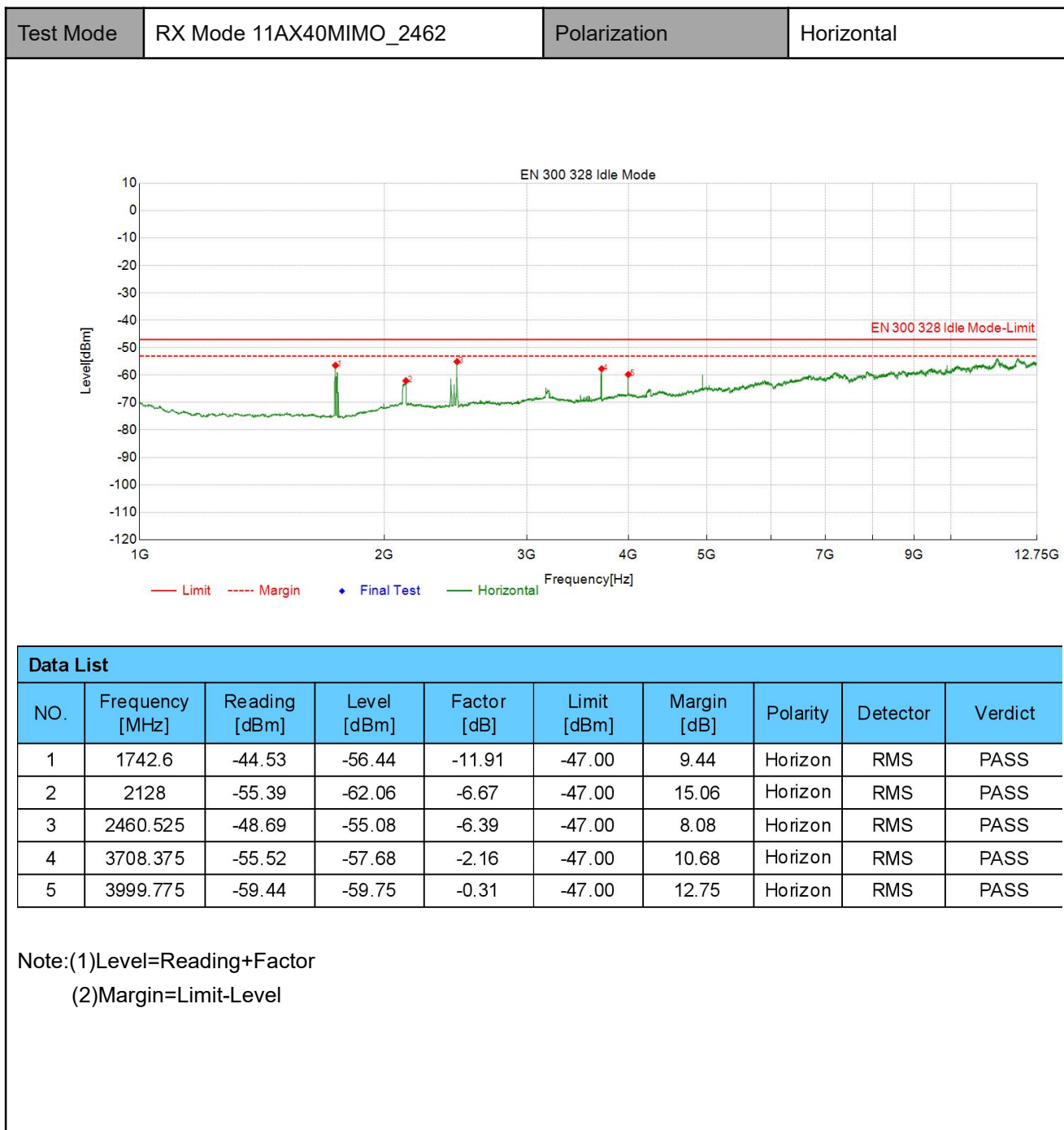




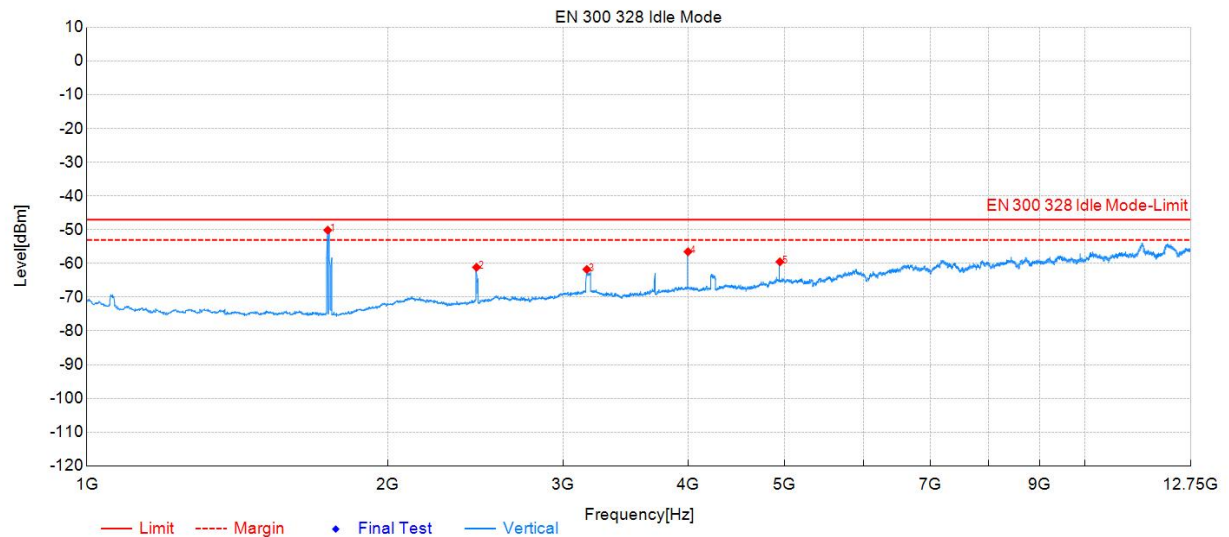








Test Mode	RX Mode 11AX40MIMO_2462	Polarization	Vertical
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Data List

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1742.6	-38.40	-50.13	-11.73	-47.00	3.13	Vertical	RMS	PASS
2	2455.825	-54.49	-61.13	-6.64	-47.00	14.13	Vertical	RMS	PASS
3	3167.875	-58.88	-61.76	-2.88	-47.00	14.76	Vertical	RMS	PASS
4	3999.775	-56.14	-56.52	-0.38	-47.00	9.52	Vertical	RMS	PASS
5	4944.475	-63.17	-59.51	3.66	-47.00	12.51	Vertical	RMS	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level

3.8 Receiver Blocking (Refer to clause 4.3.2.11)

3.8.1 Limit

Receiver category1: Adaptive equipment with a maximum RF output power greater than 10 dBm e.i.r.p.

Receiver category 2: Equipment (adaptive or non-adaptive) with a maximum RF output power greater than 0 dBm e.i.r.p. and less than or equal to 10 dBm e.i.r.p.

Receiver category 3: Equipment (adaptive or non-adaptive) with a maximum RF output power of 0 dBm e.i.r.p.

While maintaining the minimum performance criteria as defined in clause 4.3.2.11.3, the blocking levels at specified frequency offsets shall be equal to or greater than the limits defined for the applicable receiver category provided in table 14, table 15 or table 16.

Table 14: Receiver Blocking parameters for Receiver Category 1 equipment

Wanted signal mean power from companion device (dBm) (see notes 1 and 4)	Blocking signal frequency (MHz)	Blocking signal power (dBm) (see note 4)	Type of blocking signal
$(-133 \text{ dBm} + 10 \times \log_{10}(\text{OCBW}))$ or -68 dBm whichever is less (see note 2)	2 380 2 504	-34	CW
$(-139 \text{ dBm} + 10 \times \log_{10}(\text{OCBW}))$ or -74 dBm whichever is less (see note 3)	2 300 2 330 2 360 2 524 2 584 2 674		

NOTE 1: OCBW is in Hz.

NOTE 2: In case of radiated measurements using a companion device and the level of the wanted signal from the companion device cannot be determined, a relative test may be performed using a wanted signal up to $P_{\min} + 26 \text{ dB}$ where $P_{\min}$ is the minimum level of wanted signal required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal.

NOTE 3: In case of radiated measurements using a companion device and the level of the wanted signal from the companion device cannot be determined, a relative test may be performed using a wanted signal up to $P_{\min} + 20 \text{ dB}$ where $P_{\min}$ is the minimum level of wanted signal required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal.

NOTE 4: The level specified is the level at the UUT receiver input assuming a 0 dBi antenna assembly gain. In case of conducted measurements, this level has to be corrected for the (in-band) antenna assembly gain (G). In case of radiated measurements, this level is equivalent to a power flux density (PFD) in front of the UUT antenna with the UUT being configured/positioned as recorded in clause 5.4.3.2.2.

Table 15: Receiver Blocking parameters receiver Category 2 equipment

Wanted signal mean power from companion device (dBm) (see notes 1 and 3)	Blocking signal frequency (MHz)	Blocking signal power (dBm) (see note 3)	Type of blocking signal
$(-139 \text{ dBm} + 10 \times \log_{10}(\text{OCBW}) + 10 \text{ dB})$ or $(-74 \text{ dBm} + 10 \text{ dB})$ whichever is less (see note 2)	2 380 2 504 2 300 2 584	-34	CW
NOTE 1: OCBW is in Hz. NOTE 2: In case of radiated measurements using a companion device and the level of the wanted signal from the companion device cannot be determined, a relative test may be performed using a wanted signal up to $P_{\min} + 26 \text{ dB}$ where $P_{\min}$ is the minimum level of wanted signal required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal. NOTE 3: The level specified is the level at the UUT receiver input assuming a 0 dBi antenna assembly gain. In case of conducted measurements, this level has to be corrected for the (in-band) antenna assembly gain (G). In case of radiated measurements, this level is equivalent to a power flux density (PFD) in front of the UUT antenna with the UUT being configured/positioned as recorded in clause 5.4.3.2.2.			

Table 16: Receiver Blocking parameters receiver Category 3 equipment

Wanted signal mean power from companion device (dBm) (see notes 1 and 3)	Blocking signal frequency (MHz)	Blocking signal power (dBm) (see note 3)	Type of blocking signal
$(-139 \text{ dBm} + 10 \times \log_{10}(\text{OCBW}) + 20 \text{ dB})$ or $(-74 \text{ dBm} + 20 \text{ dB})$ whichever is less (see note 2)	2 380 2 504 2 300 2 584	-34	CW
NOTE 1: OCBW is in Hz. NOTE 2: In case of radiated measurements using a companion device and the level of the wanted signal from the companion device cannot be determined, a relative test may be performed using a wanted signal up to $P_{\min} + 30 \text{ dB}$ where $P_{\min}$ is the minimum level of wanted signal required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal. NOTE 3: The level specified is the level at the UUT receiver input assuming a 0 dBi antenna assembly gain. In case of conducted measurements, this level has to be corrected for the (in-band) antenna assembly gain (G). In case of radiated measurements, this level is equivalent to a power flux density (PFD) in front of the UUT antenna with the UUT being configured/positioned as recorded in clause 5.4.3.2.2.			

3.8.2 Test Peripherals

Support Equipment				
No.	Equipment	Brand Name	Model Name	Remarks
1	Record PC	Lenovo	M4000q	N/A

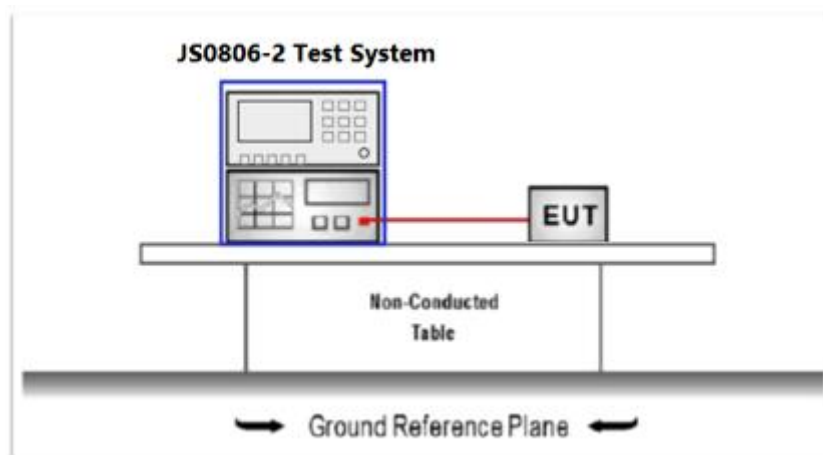
3.8.3 Test Procedure

Test Method	
●Conducted Measurement	○Radiated Measurement
Test Channels	
○Lowest, Middle and Highest Channel	● Lowest and Highest Channel

Environmental conditions	
●Normal	○Normal and Extreme
●:Test ○:No Test	

- The EUT shall be set to 11b with the lowest rate (1Mbps), and channel 1 via UI or commands.
- The blocking signal generator is set to the first frequency as defined in the appropriate table corresponding to the receiver category 1 defined in clause 4.3.2.11.4.2.
- With the blocking signal generator switched off, a communication link is established between the EUT and the companion device using the test setup shown as follow.
- The resulting level for the wanted signal at the input of the EUT is $(-133 \text{ dBm} + 10 \times \log_{10}(\text{OCBW}))$ or -68 dBm and $(-139 \text{ dBm} + 10 \times \log_{10}(\text{OCBW}))$ or -74 dBm).
- This signal level is corresponding to the receiver category 1 defined in clause 4.3.2.11.4.2.
- The blocking signal at the EUT is set to the level provided in the table corresponding to the receiver category 1 defined in clause 4.3.2.11.4.2. It shall be verified and recorded in the test report that the performance criteria 10% is met.
- Repeat step for each remaining combination of frequency and level for the blocking signal as provided in the table corresponding to the receiver category 1 defined in clause 4.3.2.11.4.2.
- Repeat step b to step g with the EUT operating at channel 13.

3.8.4 Test Configuration



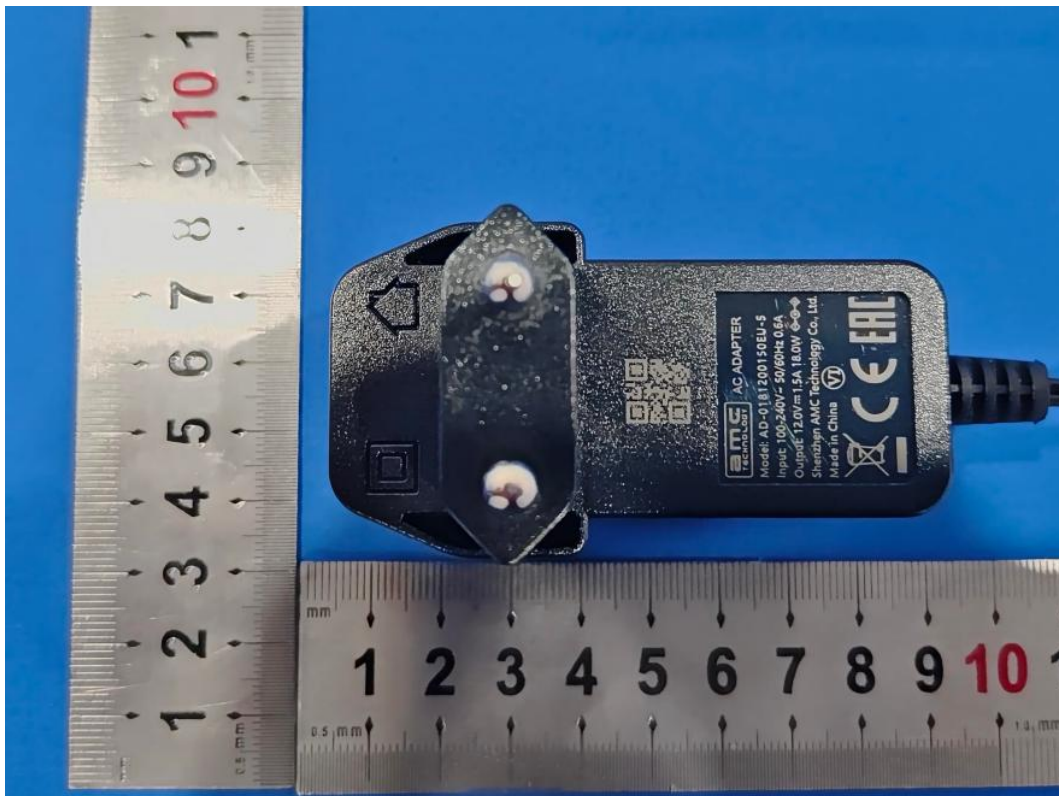
3.8.5 Test Result of Receiver Blocking

3.8.5.1 Test Result

Receiver Category	Test mode	Channel	Wanted signal mean power from companion device (dBm)	Blocking signal frequency (MHz)	Blocking signal power (dBm) (see note 1)	PER (%)	Limit (%)	Result
1	11B	2412	-70.8	2300	-30.5	0.4	10	Pass
			-70.8	2330		0.4	10	Pass
			-70.8	2360		0.0	10	Pass
			-64.8	2380		0.5	10	Pass
		2472	-64.8	2504		0.3	10	Pass
			-70.8	2524		0.3	10	Pass
			-70.8	2584		0.6	10	Pass
			-70.8	2674		0.0	10	Pass

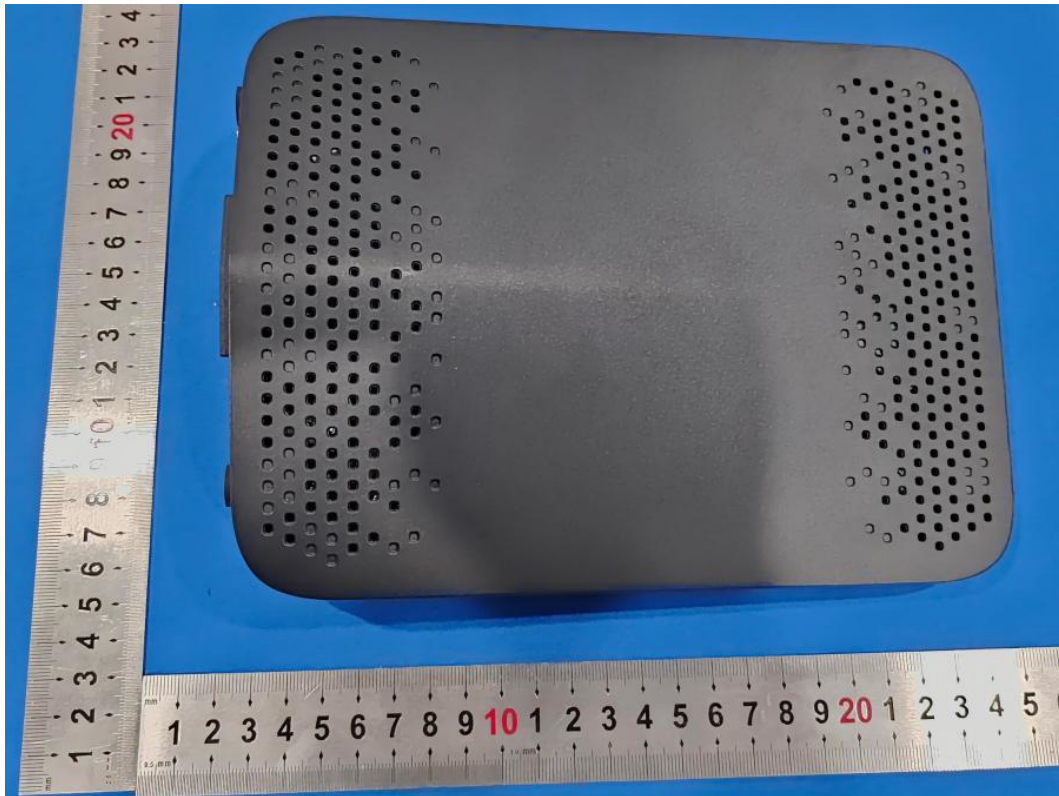
Note 1: Antenna gain has been considered in the Blocking signal power.

4. Photographs of EUT

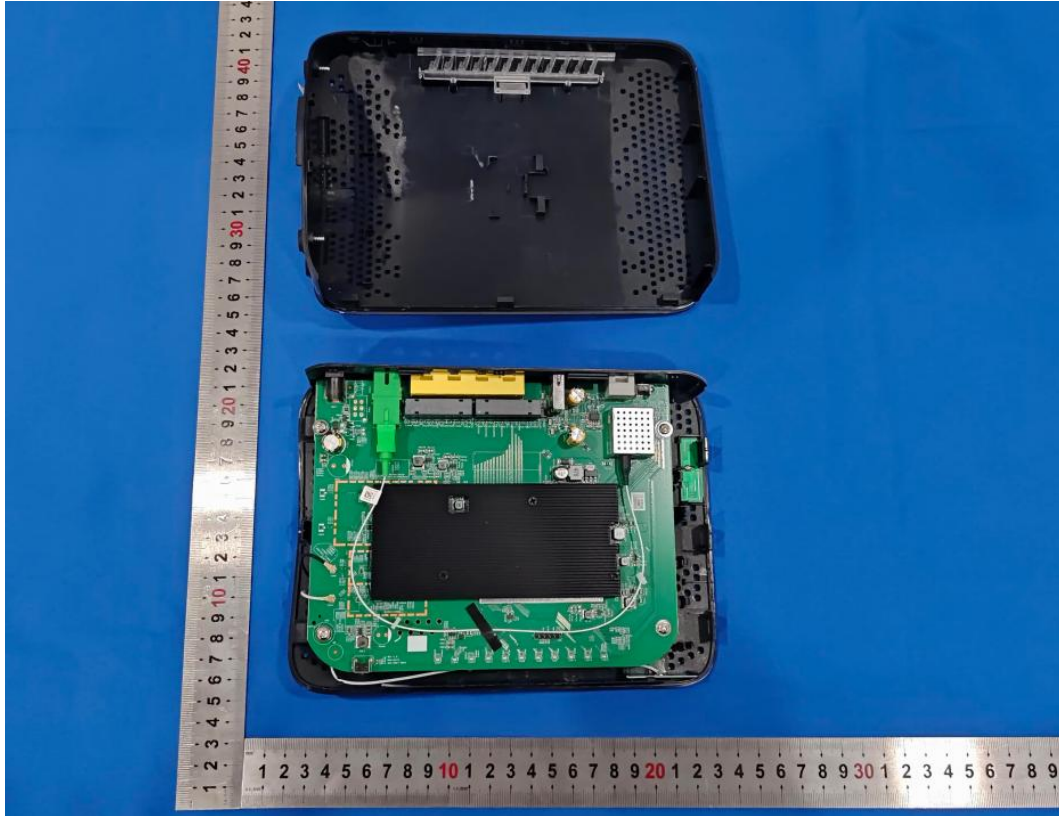


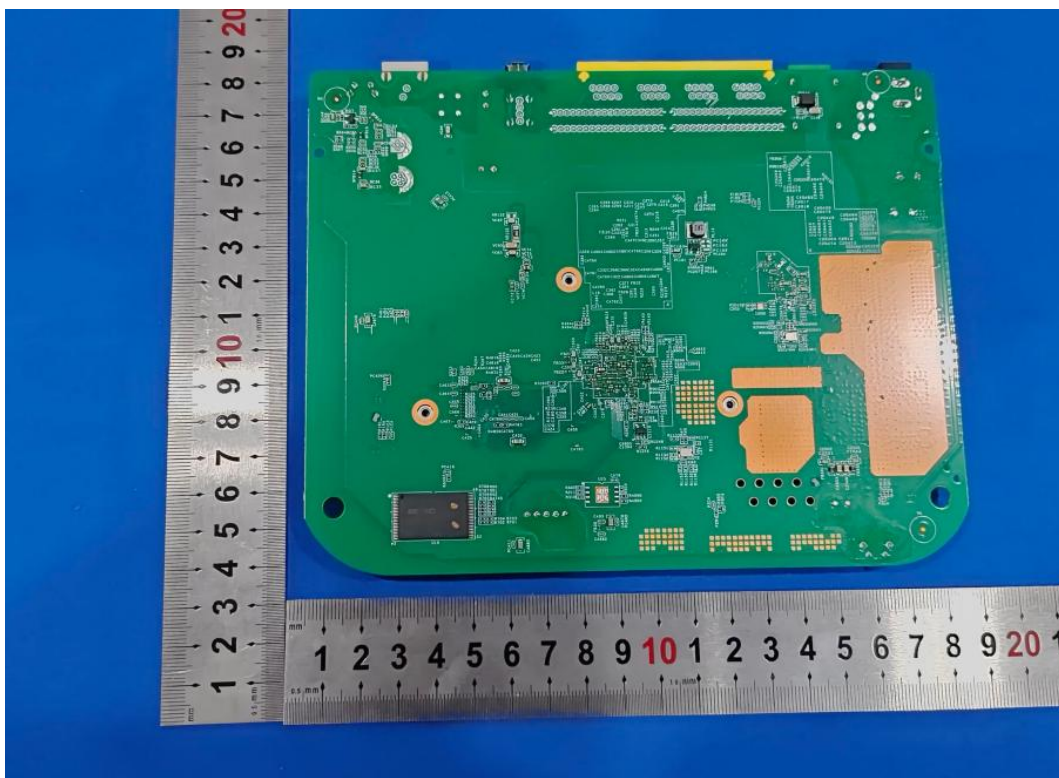
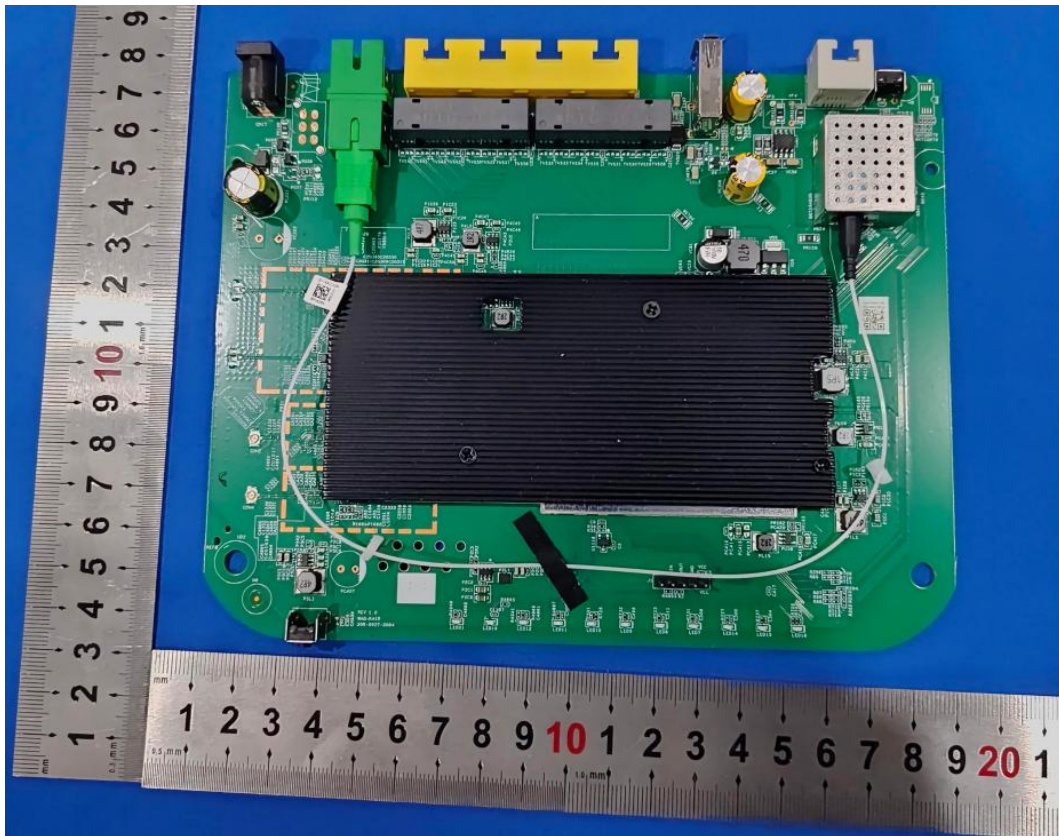


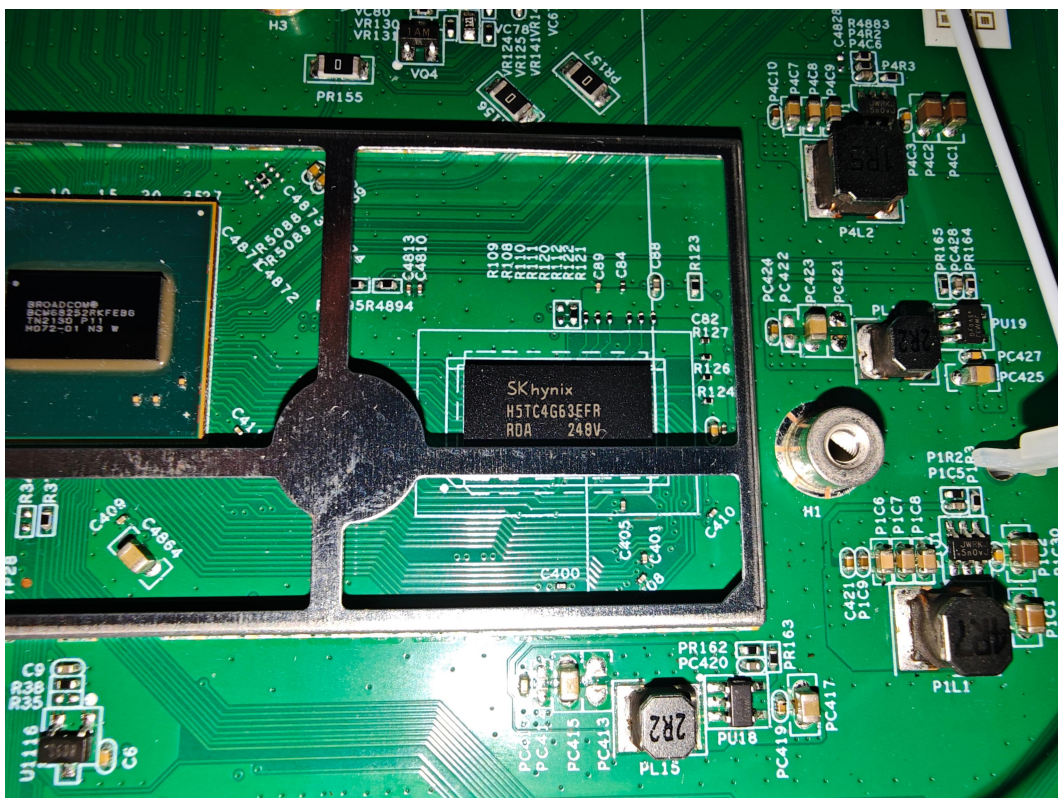


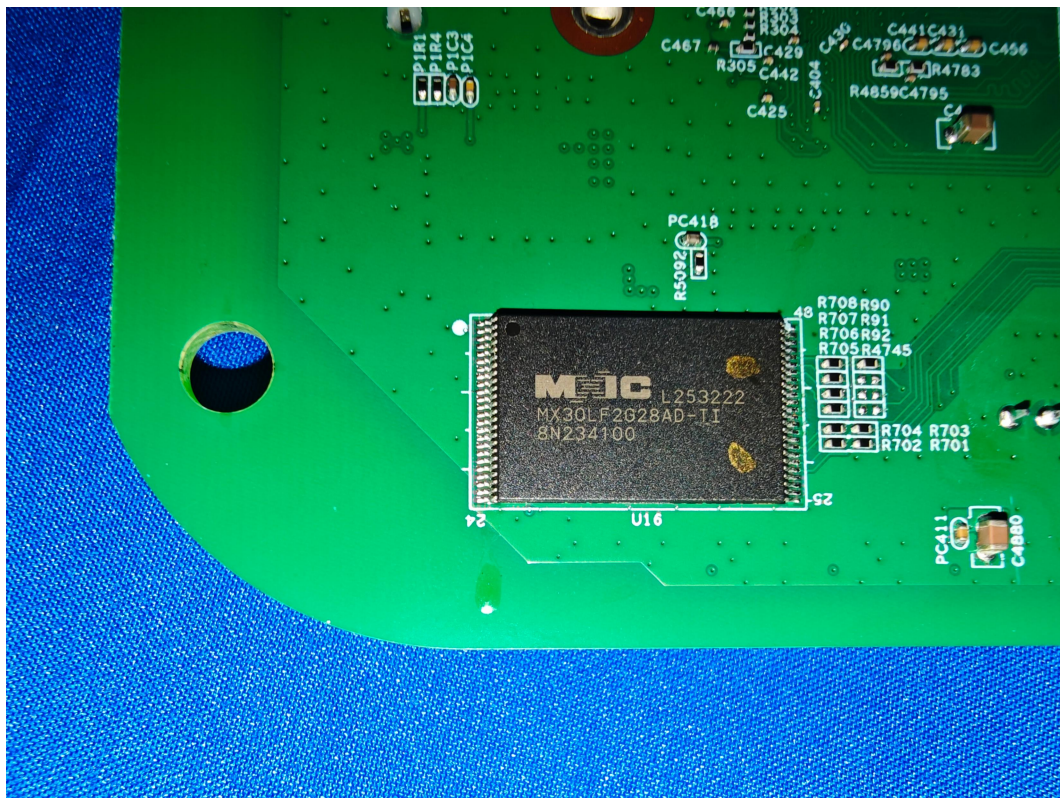


5. Photographs of PCB



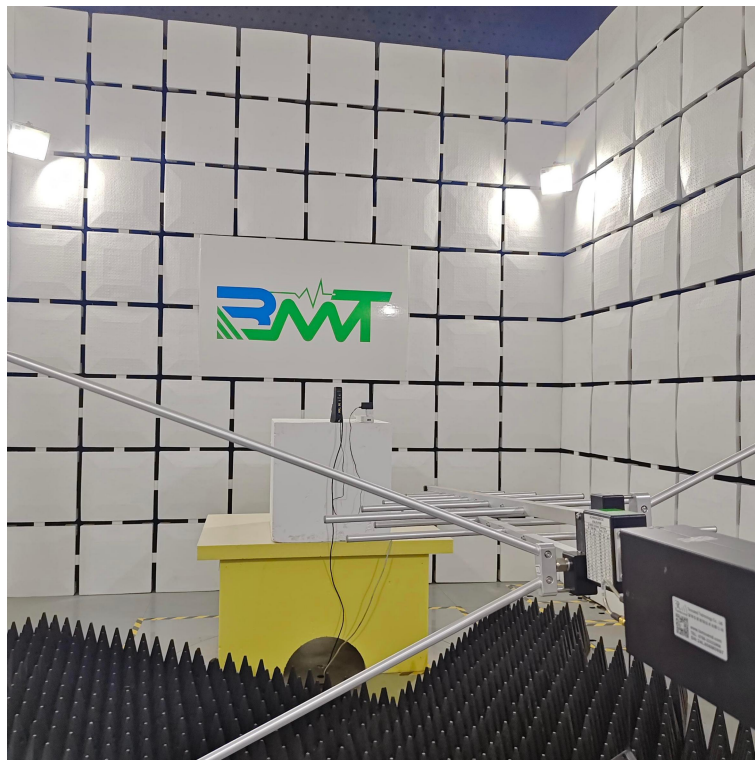
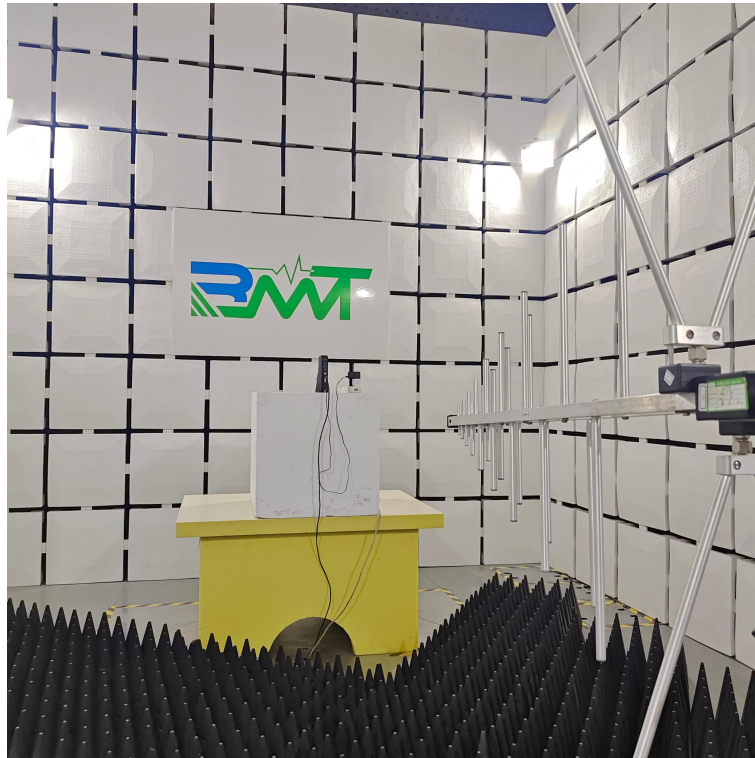




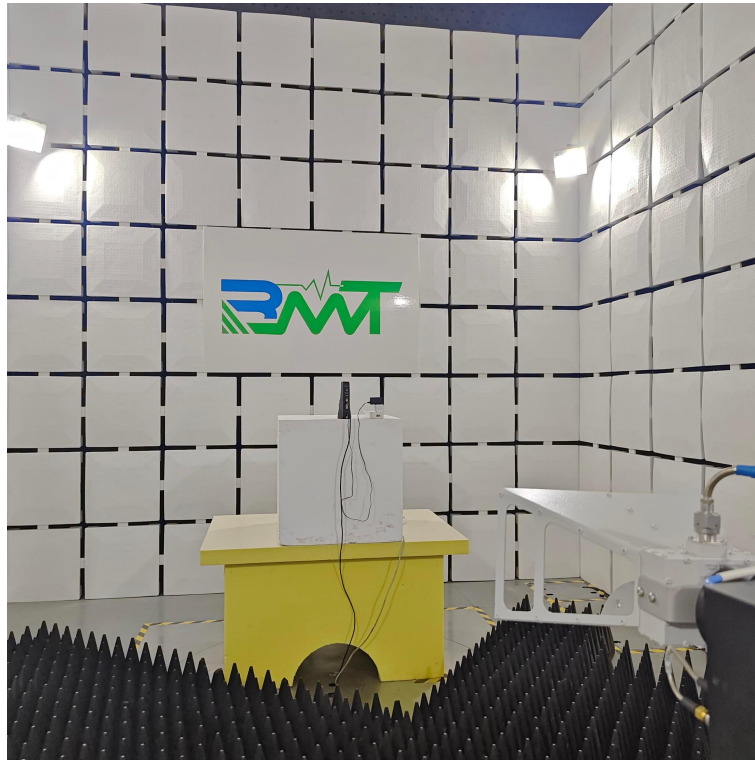


6. Photographs of Radiated Test Set-up

Below 1GHz



Above 1GHz



Statement

1. The report is invalid without the official seal or special seal of WU HAN BAO MU TESTING CO., LTD..
2. The report is invalid without the signature of the approver.
3. The report is invalid if altered arbitrarily.
4. The report shall not be partially copied without the written approval of the unit.
5. The reported test results are only valid for the tested samples.
6. If there is any objection to the test report, it shall be submitted to the test unit within 15 days from the date of receiving the report, and the overdue shall not be accepted.

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**** End of report ****