

Prüfbericht-Nr.: Test Report No.:	50356282 001	Auftrags-Nr.: Order No.:	244198254	Seite 1 von 52 Page 1 of 52
Kunden-Referenz-Nr.: Client Reference No.:	244044963	Auftragsdatum: Order date.:	06.01.2020	
Auftraggeber: Client:	Fluke Corporation 6920 Seaway Blvd, EVERETT WA 98203, USA			
Prüfgegenstand: Test item:	Thermal Imager			
Bezeichnung / Typ-Nr.: Identification / Type No.:	TiS55+, TiS75+			
Auftrags-Inhalt: Order content:	Certificate of Conformity Approval (AK) for RED			
Prüfgrundlage: Test specification:	EN 300 328 V2.1.1:2016 EN 301 489-1 V2.2.3:2019 EN 301 489-17 V3.1.1:2017		EN 61326-1:2013 EN 61010-1:2010 EN 50566:2017	
Wareneingangsdatum: Date of receipt:	22.12.2019			
Prüfmuster-Nr.: Test sample No.:	A001046562-001, 002			
Prüfzeitraum: Testing period:	Refer to test report			
Ort der Prüfung: Place of testing:	MRT Technology (Suzhou) Co., Ltd.			
Prüflaboratorium: Testing laboratory:	TÜV Rheinland (Shanghai) Co., Ltd.			
Prüfergebnis*: Test result*:	Pass			
geprüft von / tested by:		kontrolliert von / reviewed by:		
				
14.07.2020 Datum Date	Hongfei Wu / PE Name/Stellung Name/Position	Unterschrift Signature	14.07.2020 Datum Date	Elliot Zhang / Reviewer Name/Stellung Name/Position
			Unterschrift Signature	
Sonstiges / Other:				
This report only evaluates EN 300 328 V2.1.1:2016. For other requirements of RED 2014/53/EU, please refer to Clause 6.				
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:		Prüfmuster vollständig und unbeschädigt Test item complete and undamaged		
* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor P(ass) = passed a.m. test specifications(s) F(ail) = failed a.m. test specifications(s) N/A = not applicable N/T = not tested				
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

TEST SUMMARY

5.1.1 RF OUTPUT POWER

RESULT: PASS

5.1.2 POWER SPECTRAL DENSITY

RESULT: PASS

5.1.3 DUTY CYCLE, TX-SEQUENCE, TX-GAP

RESULT: N/A

5.1.4 MEDIUM UTILIZATION FACTOR

RESULT: N/A

5.1.5 ADAPTIVITY

RESULT: PASS

5.1.6 OCCUPIED CHANNEL BANDWIDTH

RESULT: PASS

5.1.7 TRANSMITTER UNWANTED EMISSIONS IN THE OOB DOMAIN

RESULT: PASS

5.1.8 TRANSMITTER UNWANTED EMISSIONS IN THE SPURIOUS DOMAIN

RESULT: PASS

5.2.1 RECEIVER SPURIOUS EMISSIONS

RESULT: PASS

5.2.2 RECEIVER BLOCKING

RESULT: PASS

6.1.1 ELECTRICAL SAFETY REQUIREMENT

RESULT: PASS

6.1.2 HUMAN EXPOSURE TO EM FIELDS

RESULT: PASS

6.2.1 ELECTROMAGNETIC COMPATIBILITY REQUIREMENT

RESULT: PASS

CONTENTS

1.	GENERAL REMARKS.....	5
1.1	COMPLEMENTARY MATERIALS	5
1.2	TEST SPECIFICATIONS	5
2.	TEST SITES.....	6
2.1	TEST FACILITIES.....	6
2.2	LIST OF TEST AND MEASUREMENT INSTRUMENTS	6
2.3	MEASUREMENT UNCERTAINTY	8
3.	GENERAL PRODUCT INFORMATION	9
3.1	PRODUCT FUNCTION AND INTENDED USE	9
3.2	SYSTEM DETAILS	9
3.3	INDEPENDENT OPERATION MODES	10
3.4	NOISE SUPPRESSING PARTS	10
4.	TEST SET-UP AND OPERATION MODES	11
4.1	TEST METHODOLOGY	11
4.2	PHYSICAL CONFIGURATION FOR TESTING.....	11
4.3	TEST OPERATION AND TEST SOFTWARE	11
4.4	SPECIAL ACCESSORIES AND AUXILIARY EQUIPMENT.....	11
4.5	COUNTERMEASURES TO ACHIEVE EMC COMPLIANCE	12
5.	TEST RESULTS RADIO	13
5.1	TRANSMITTER PARAMETERS	13
5.1.1	<i>RF output power.....</i>	<i>13</i>
5.1.2	<i>Power Spectral Density</i>	<i>15</i>
5.1.3	<i>Duty Cycle, Tx-sequence, Tx-gap.....</i>	<i>16</i>
5.1.4	<i>Medium Utilization Factor</i>	<i>17</i>
5.1.5	<i>Adaptivity</i>	<i>18</i>
5.1.6	<i>Occupied Channel Bandwidth.....</i>	<i>27</i>
5.1.7	<i>Transmitter unwanted emissions in the OOB domain.....</i>	<i>32</i>
5.1.8	<i>Transmitter unwanted emissions in the spurious domain.....</i>	<i>33</i>
5.2	RECEIVER PARAMETERS.....	35
5.2.1	<i>Receiver Spurious Emissions</i>	<i>35</i>
5.2.2	<i>Receiver Blocking.....</i>	<i>37</i>
6.	OTHER EVALUATION OF RED 2014/53/EU	45
6.1	ARTICLE 3.1A	45
6.1.1	<i>Electrical Safety Requirement.....</i>	<i>45</i>
6.1.2	<i>Human Exposure to EM Fields</i>	<i>45</i>
6.2	ARTICLE 3.1B	45

Prüfbericht - Nr.: 50356282 001

Test Report No.:

Seite 4 von 52

Page 4 of 52

6.2.1	Electromagnetic Compatibility Requirement.....	45
7.	PHOTOGRAPHS OF THE SAMPLE AND TEST SETUP.....	47
8.	LIST OF TABLES.....	51
9.	LIST OF FIGURES.....	51
10.	LIST OF PHOTOGRAPHS	52

Prüfbericht - Nr.: 50356282 001*Test Report No.:***Seite 5 von 52***Page 5 of 52*

1. General Remarks

1.1 Complementary Materials

Null.

1.2 Test Specifications

The following standards were applied.

Table 1: Applied Standard and Test Levels

Radio
EN 300 328 V2.1.1:2016

2. Test Sites

2.1 Test Facilities

MRT Technology (Suzhou) Co., Ltd.

D8 Building, Youxin Industrial Park, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China

The used test equipment is in accordance with CISPR 16-1 series standards for measurement of radio interference.

2.2 List of Test and Measurement Instruments

Table 2: List of Test and Measurement Equipment

RF Output Power

Instrument	Manufacturer	Type No.	Asset No.	Cali. Due Date
Power Meter	Agilent	U2021XA	MRTSUE06030	15.11.2020
Programmable Temperature & Humidity Chamber	BAOYT	BYH-1500L	MRTSUE06051	15.11.2020
Thermohygrometer	Testo	608-H1	MRTSUE06401	08.08.2020

Power Spectral Density, Occupied Channel Bandwidth, Transmitter Unwanted Emissions in the OOB Domain

Instrument	Manufacturer	Type No.	Asset No.	Cali. Due Date
Spectrum Analyzer	Agilent	N9020A	MRTSUE06106	15.04.2020
Thermohygrometer	Testo	608-H1	MRTSUE06401	08.08.2020

Adaptivity

Instrument	Manufacturer	Type No.	Asset No.	Cali. Due Date
Spectrum Analyzer	Agilent	N9020A	MRTSUE06106	15.04.2020
EXA Signal Analyzer	Keysight	N9010B	MRTSUE06457	18.07.2020
Vector Signal Generator	Agilent	E4438C	MRTSUE06026	15.11.2020
Vector Signal Generator	Agilent	E4438C	MRTSUE06081	15.11.2020
Directional Coupler	Narda	4216-20	MRTSUE06065	27.03.2020
Power Splitter	Mini-Circuits	ZFRSC-123-S+	MRTSUE06122	N/A
Thermohygrometer	Testo	608-H1	MRTSUE06402	08.08.2020

Prüfbericht - Nr.: 50356282 001
Test Report No.:
Seite 7 von 52
Page 7 of 52
Transmitter Unwanted Emissions in the Spurious Domain, Receiver Spurious Emissions

Instrument	Manufacturer	Type No.	Asset No.	Cali. Due Date
EMI Test Receiver	R&S	ESR7	MRTSUE06001	01.08.2020
PXA Signal Analyzer	Keysight	N9030B	MRTSUE06395	24.09.2020
Microwave System Amplifier	Agilent	83017A	MRTSUE06076	15.11.2020
Preamplifier	Schwarzbeck	BBV 9721	MRTSUE06121	11.06.2020
Bilog Period Antenna	Schwarzbeck	VULB 9168	MRTSUE06172	30.03.2020
Broad Band Horn Antenna	Schwarzbeck	BBHA9120D	MRTSUE06023	18.10.2020
Thermohygrometer	Testo	608-H1	MRTSUE06403	08.08.2020
Anechoic Chamber	TDK	Chamber-AC1	MRTSUE06212	30.04.2020

Receiver Blocking

Instrument	Manufacturer	Type No.	Asset No.	Cali. Due Date
Vector Signal Generator	Agilent	E4438C	MRTSUE06026	15.11.2020
Spectrum Analyzer	Agilent	N9020A	MRTSUE06106	15.04.2020
EXA Signal Analyzer	Keysight	N9010B	MRTSUE06457	18.07.2020
Directional Coupler	Narda	4216-20	MRTSUE06065	26.03.2020
Wideband Radio Communication Tester	R&S	CMW 500	MRTSUE06243	15.11.2020
Power Splitter	Mini-Circuits	ZFRSC-123-S+	MRTSUE06122	N/A
Thermohygrometer	Testo	608-H1	MRTSUE06402	08.08.2020

2.3 Measurement Uncertainty

Table 3: Emission Measurement Uncertainty

Parameter	Uncertainty
Occupied Channel Bandwidth	$\pm 5 \%$
RF output power, conducted	$\pm 1.5 \text{ dB}$
Power Spectral Density, conducted	$\pm 3 \text{ dB}$
Unwanted Emissions, conducted	$\pm 3 \text{ dB}$
All emissions, radiated	$\pm 6 \text{ dB}$
Temperature	$\pm 1 \%$
Humidity	$\pm 5 \%$
DC and low frequency voltages	$\pm 3 \%$
Time	$\pm 5 \%$
Duty Cycle	$\pm 5 \%$

3. General Product Information

3.1 Product Function and Intended Use

The EUT (Equipment Under Test) is a thermal imager which contains Wi-Fi and Bluetooth 4.2 module.

The aim of this report is to evaluate RF character of Wi-Fi of the EUT .

For details refer to the User Manual and Circuit Diagram.

3.2 System Details

Table 4: Technical Specification of EUT

General Description of EUT	
Product Name:	Thermal Imager
Model No.:	TiS55+, TiS75+
Operation Voltage:	DC 7.2V (Li-ion)
operating temperature:	-10~50 °C
Technical Specification of 2.4GHz Wi-Fi	
Frequency Range:	2412 - 2472MHz
Modulation Type:	802.11b: DSSS 802.11g/n-HT20: OFDM
Antenna Type:	Internal Antenna
Antenna Gain:	3.2 dBi
Receiver Category:	1
Technical Specification of Bluetooth LE	
Frequency Range:	2402 - 2480MHz
Modulation Type:	GFSK
Antenna Type:	Internal Antenna
Antenna Gain:	3.2 dBi
Receiver Category:	2
Technical Specification of Bluetooth BR/EDR	
Frequency Range:	2402 - 2480MHz
Modulation Type:	GFSK, $\pi/4$ -DQPSK, 8DPSK
Antenna Type:	Internal Antenna
Antenna Gain:	3.2 dBi
Receiver Category:	2

Note:

The above two models are same in hardware, the difference of them is only software that will not influence on RF performance. So, TiS75+ was chosen for RF test.

3.3 Independent Operation Modes

Table 5: Independent Operation Modes

Test Mode			Operating Mode	Channel Number	Channel Frequency [MHz]
Tx	Rx	Normal			
TM1	TM13	TM25	802.11b	1	2412
TM2	TM14	TM26	802.11b	7	2442
TM3	TM15	TM27	802.11b	13	2472
TM4	TM16	TM28	802.11g	1	2412
TM5	TM17	TM29	802.11g	7	2442
TM6	TM18	TM30	802.11g	13	2472
TM7	TM19	TM31	802.11n-HT20	1	2412
TM8	TM20	TM32	802.11n-HT20	7	2442
TM9	TM21	TM33	802.11n-HT20	13	2472
TM10	TM22	TM34	802.11n-HT40	3	2422
TM11	TM23	TM35	802.11n-HT40	7	2442
TM12	TM24	TM36	802.11n-HT40	11	2462

3.4 Noise Suppressing Parts

Refer to schematics.

4. Test Set-up and Operation Modes

4.1 Test Methodology

Radio: The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Physical Configuration for Testing

The EUT was designed to get into related working mode with the control of computer.
Notes:

For antenna conducted measurements, the antenna was replaced by a 50Ω antenna connector.

For antenna radiated measurements, the associated cables and computer were removed.

For more details, refer to section: Photographs of the Test Set-Up.

4.3 Test Operation and Test Software

Test software: DutApiWiFi8801BrdigeEth

Table 6: Power parameter value

Operating Mode	Channel Frequency [MHz]	Power Parameter Value	Operating Mode	Channel Frequency [MHz]	Power Parameter Value
802.11b	2412	15	802.11n-HT20	2412	16
	2442	14		2442	16
	2472	14		2472	17
802.11g	2412	16	802.11n-HT40	2422	16
	2442	16		2442	16
	2472	16		2462	16

4.4 Special Accessories and Auxiliary Equipment

Null.

Prüfbericht - Nr.: 50356282 001*Test Report No.:***Seite 12 von 52***Page 12 of 52*

4.5 Countermeasures to achieve EMC Compliance

Null.

5. Test Results RADIO

5.1 Transmitter Parameters

5.1.1 RF output power

RESULT:**PASS**

Date of testing	: 07.01.2020
Ambient temperature	: 25°C
Relative humidity	: 52%
Atmospheric pressure	: 101kPa
Test requirement	: EN 300 328 V2.1.1:2016, clause 4.3.2.2
Test procedure	: EN 300 328 V2.1.1:2016, clause 5.4.2.2
Normal test voltage	: DC 7.2V
Low test temperature	: -10°C
Normal test temperature	: 25°C
High test temperature	: 50°C
Test modes applied	: TM1 to TM12

Table 7: RF output power

Temp. [°C]	Operating Mode	Test Mode	Antenna Gain [dBi]	Ch. No.	Freq. [MHz]	RF Output Power [dBm]	E.I.R.P [dBm]	Limit [dBm]
25	802.11b	TM1	3.2	1	2412	14.56	17.76	20.00
		TM2		7	2442	14.66	17.86	20.00
		TM3		13	2472	13.74	16.94	20.00
	802.11g	TM4		1	2412	16.11	19.31	20.00
		TM5		7	2442	16.30	19.50	20.00
		TM6		13	2472	15.80	19.00	20.00
	802.11n- HT20	TM7		1	2412	16.21	19.41	20.00
		TM8		7	2442	16.27	19.47	20.00
		TM9		13	2472	16.28	19.48	20.00
	802.11n- HT40	TM10		3	2422	16.31	19.51	20.00
		TM11		7	2442	16.04	19.24	20.00
		TM12		11	2462	16.06	19.26	20.00
-10	802.11b	TM1	3.2	1	2412	15.01	18.21	20.00
		TM2		7	2442	14.85	18.05	20.00
		TM3		13	2472	14.53	17.73	20.00
	802.11g	TM4		1	2412	16.33	19.53	20.00
		TM5		7	2442	16.53	19.73	20.00
		TM6		13	2472	15.98	19.18	20.00
	802.11n- HT20	TM7		1	2412	16.48	19.68	20.00
		TM8		7	2442	16.43	19.63	20.00
		TM9		13	2472	16.36	19.56	20.00
	802.11n- HT40	TM10		3	2422	16.65	19.85	20.00
		TM11		7	2442	16.35	19.55	20.00
		TM12		11	2462	16.35	19.55	20.00
50	802.11b	TM1	3.21	1	2412	15.31	18.51	20.00
		TM2		7	2442	14.01	17.21	20.00
		TM3		13	2472	13.88	17.08	20.00
	802.11g	TM4		1	2412	16.63	19.83	20.00
		TM5		7	2442	16.53	19.73	20.00
		TM6		13	2472	15.88	19.08	20.00
	802.11n- HT20	TM7		1	2412	16.08	19.28	20.00
		TM8		7	2442	16.12	19.32	20.00
		TM9		13	2472	16.51	19.71	20.00
	802.11n- HT40	TM10		3	2422	15.58	18.78	20.00
		TM11		7	2442	16.32	19.52	20.00
		TM12		11	2462	15.45	18.65	20.00

Note:
 $E.I.R.P = P_{burst} + \text{Antenna Gain.}$
 P_{burst} : The highest burst power value measured in observant duration.

5.1.2 Power Spectral Density

RESULT:
PASS

Date of testing : 07.01.2020
 Ambient temperature : 25°C
 Relative humidity : 52%
 Atmospheric pressure : 101kPa
 Test requirement : EN 300 328 V2.1.1:2016, clause 4.3.2.3
 Test procedure : EN 300 328 V2.1.1:2016, clause 5.4.3.2
 Normal test voltage : DC 7.2V
 Test modes applied : TM1 to TM12

Table 8: Power spectral density

Operating Mode	Test Mode	Ch. No.	Freq. [MHz]	Total PSD [dBm/MHz]	Limit [dBm/MHz]
802.11b	TM1	1	2412	9.31	10.00
	TM2	7	2442	9.54	10.00
	TM3	13	2472	9.20	10.00
802.11g	TM4	1	2412	8.93	10.00
	TM5	7	2442	9.24	10.00
	TM6	13	2472	9.57	10.00
802.11n-HT20	TM7	1	2412	8.66	10.00
	TM8	7	2442	8.97	10.00
	TM9	13	2472	9.82	10.00
802.11n-HT40	TM10	3	2422	8.63	10.00
	TM11	7	2442	6.61	10.00
	TM12	11	2462	6.38	10.00

Prüfbericht - Nr.: 50356282 001*Test Report No.:***Seite 16 von 52***Page 16 of 52***5.1.3 Duty Cycle, Tx-sequence, Tx-gap****RESULT:****N/A**

Test requirement : EN 300 328 V2.1.1:2016, clause 4.3.2.4

Note:

These requirements apply to non-adaptive equipment or to adaptive equipment when operating in a non-adaptive mode.

Therefore, these measurements are not required.

Prüfbericht - Nr.: 50356282 001*Test Report No.:***Seite 17 von 52***Page 17 of 52*

5.1.4 Medium Utilization Factor

RESULT:**N/A**

Test requirement : EN 300 328 V2.1.1:2016, clause 4.3.2.5

Note:

This requirement does not apply to adaptive equipment unless operating in a non-adaptive mode.

Therefore, assessment of the Medium Utilisation Factor is not required.

5.1.5 Adaptivity

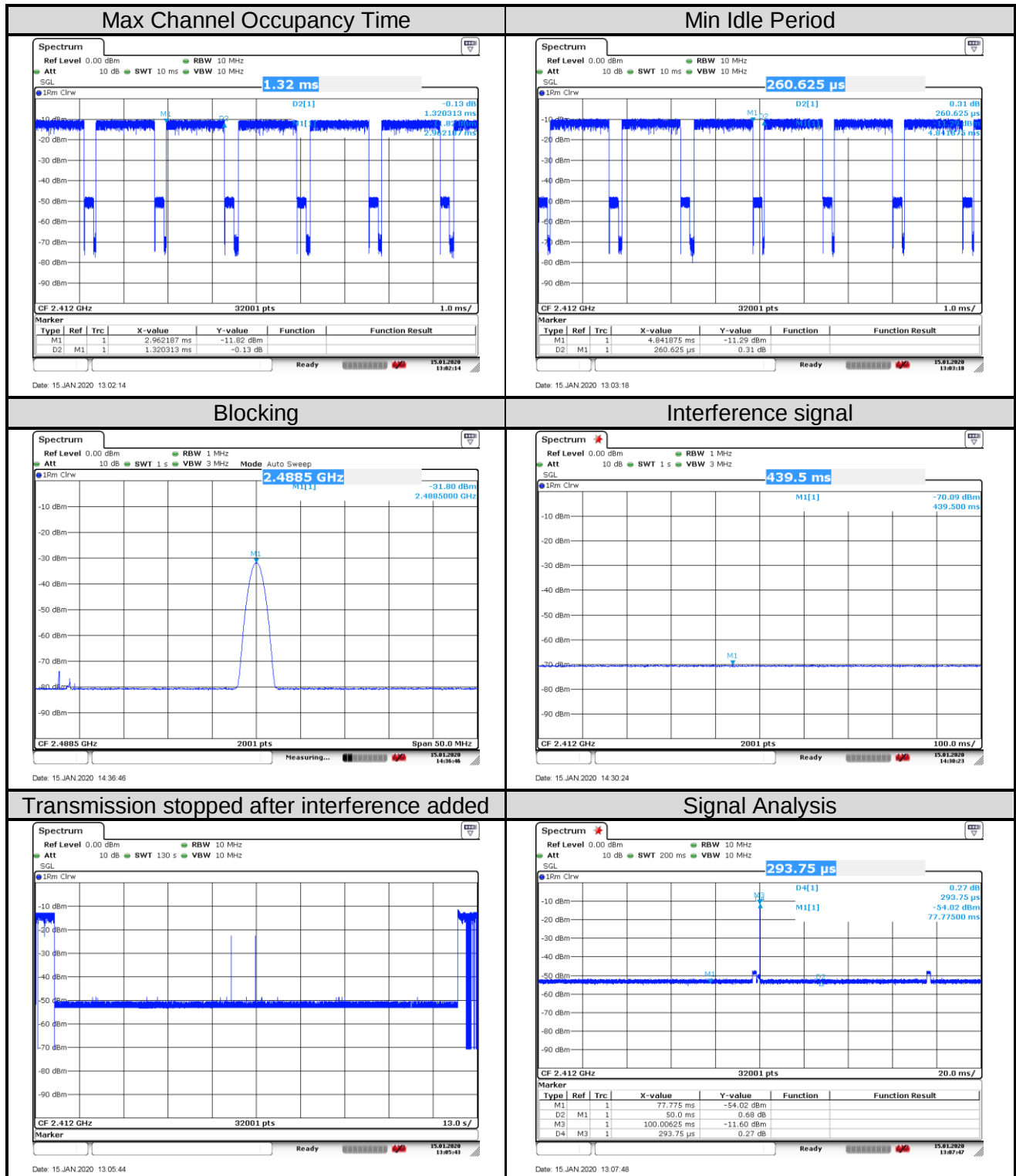
RESULT:
PASS

Date of testing : 15.01.2020~24.03.2020
 Ambient temperature : 25°C
 Relative humidity : 52%
 Atmospheric pressure : 101kPa
 Test requirement : EN 300 328 V2.1.1:2016, clause 4.3.2.6
 Test procedure : EN 300 328 V2.1.1:2016, clause 5.4.6.2
 Normal test voltage : DC 7.2V
 Test modes applied : TM25, TM27, TM28, TM30, TM31, TM33, TM34, TM36

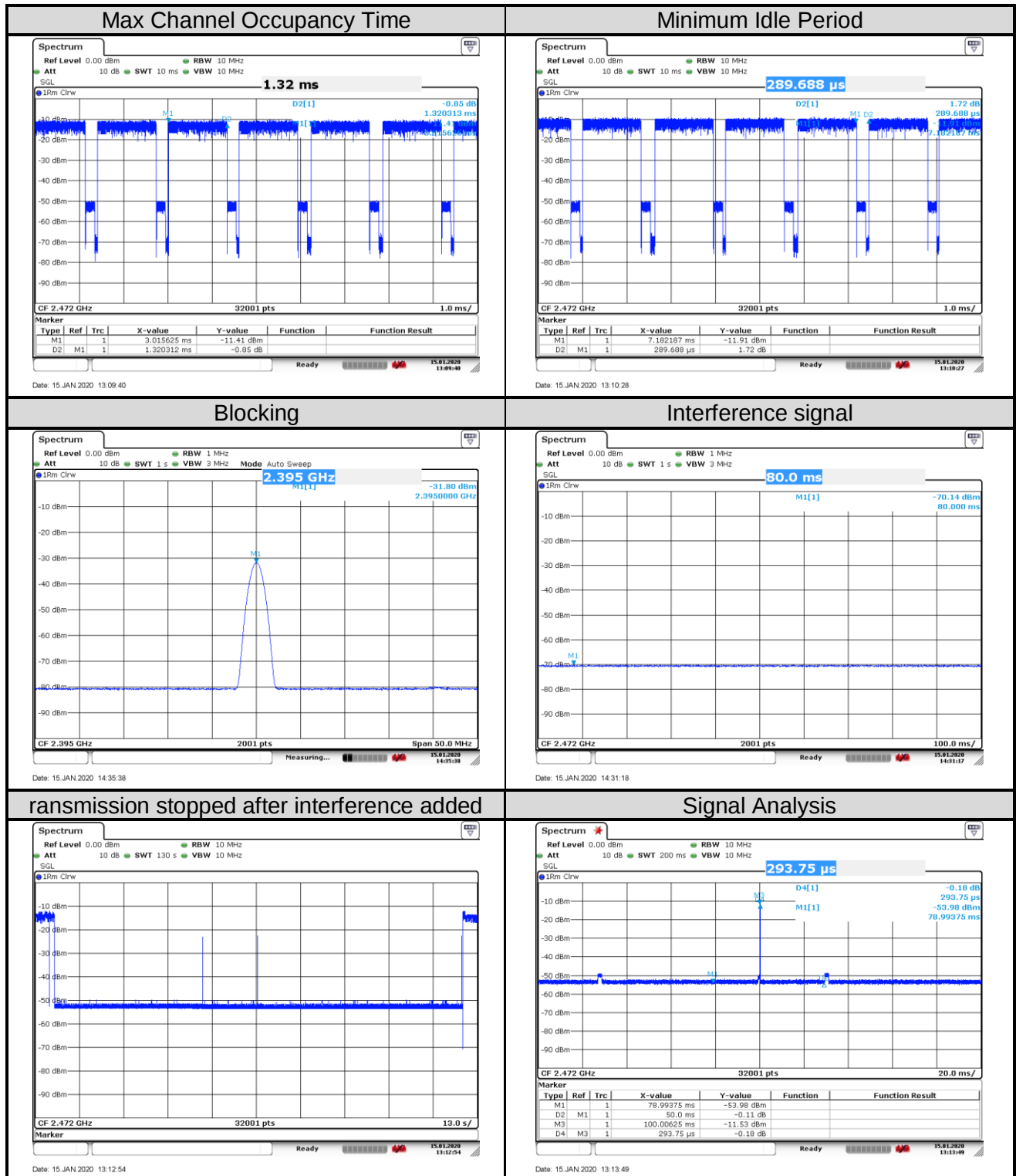
Table 9: Short Control Signalling Transmissions

Operating mode	Channel Frequency [MHz]	Short Control Signalling Transmissions			Limit [%]
		TxOn [µs]	TxOn+TxOff [ms]	TxOn/(TxOn+TxOff) [%]	
802.11b	2412	293.75	50	0.58	<10
	2472	293.75	50	0.58	
802.11g	2412	nf	/	/	
	2472	nf	/	/	
802.11n-HT20	2412	437.5	50	0.88	
	2472	nf	/	/	
802.11n-HT40	2422	12.5	50	0.03	
	2462	nf	/	/	

Note: 'nf' means not found.

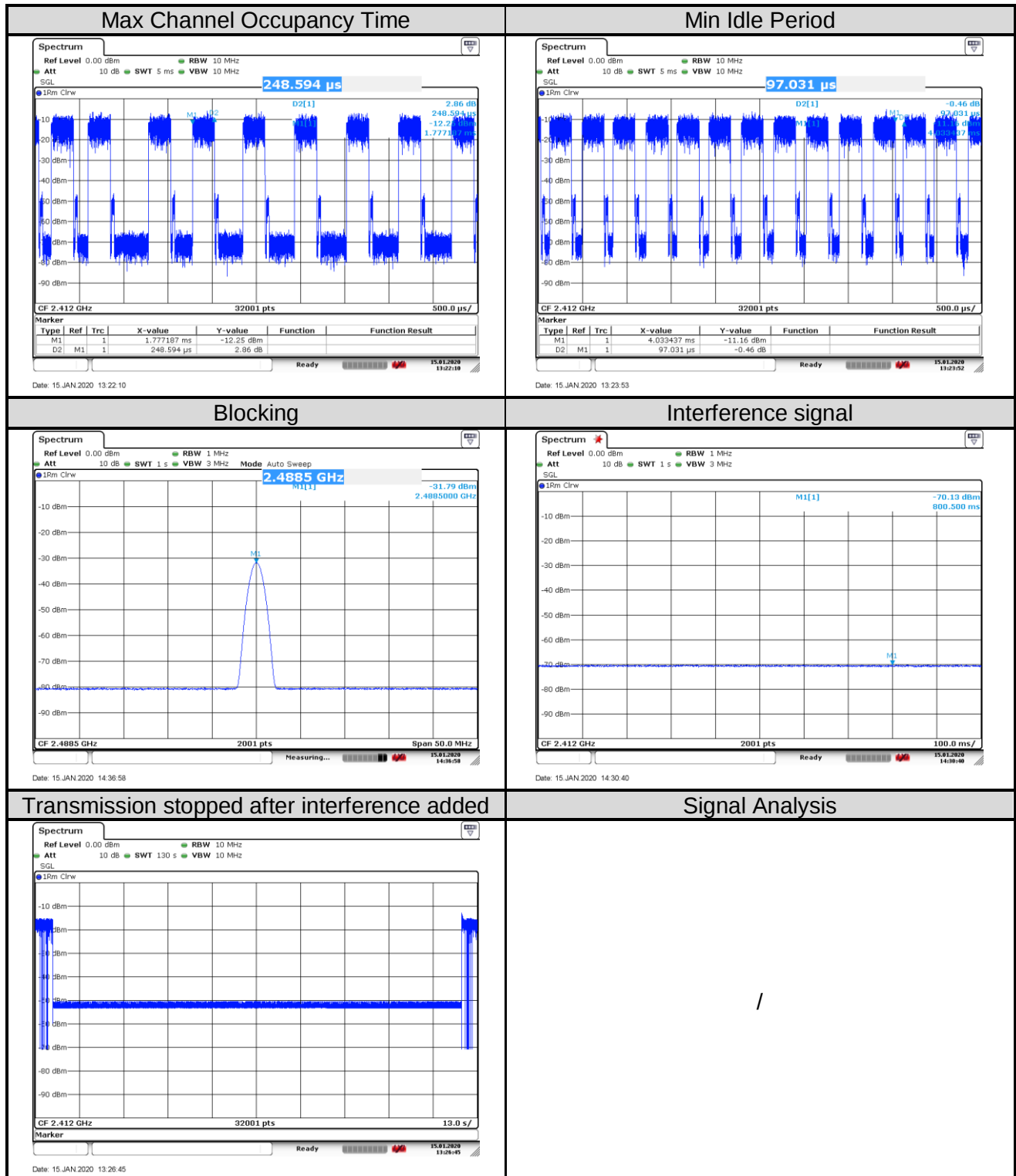
Figure 1: Adaptivity, TM25


Note: Due to the max E.I.R.P is 18.51 dBm, the threshold level (TL) should be -68.51dBm/MHz. (TL = -70 dBm/MHz + 10*log(100mW/P_{out})). And actually, the TL used in the test is -70.09 dBm/MHz which is lower than -68.51dBm /MHz.

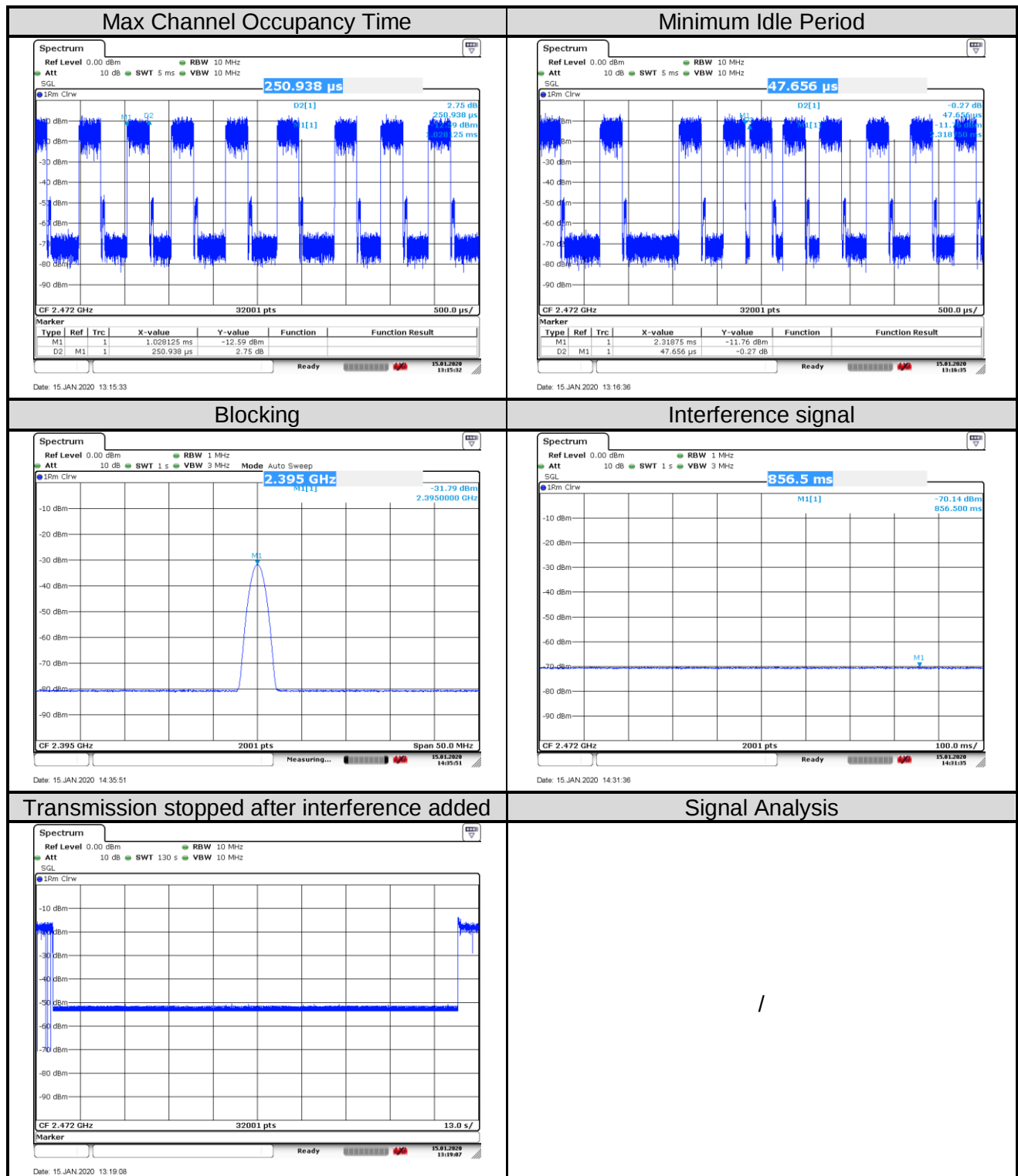
Figure 2: Adaptivity, TM27


Note: Due to the max E.I.R.P is 17.73dBm, the threshold level (TL) should be -67.73dBm/MHz.
 $(TL = -70 \text{ dBm/MHz} + 10 \cdot \log(100 \text{ mW}/P_{out}))$. And actually, the TL used in the test is -70.14 dBm/MHz which is lower than -67.37dBm /MHz.

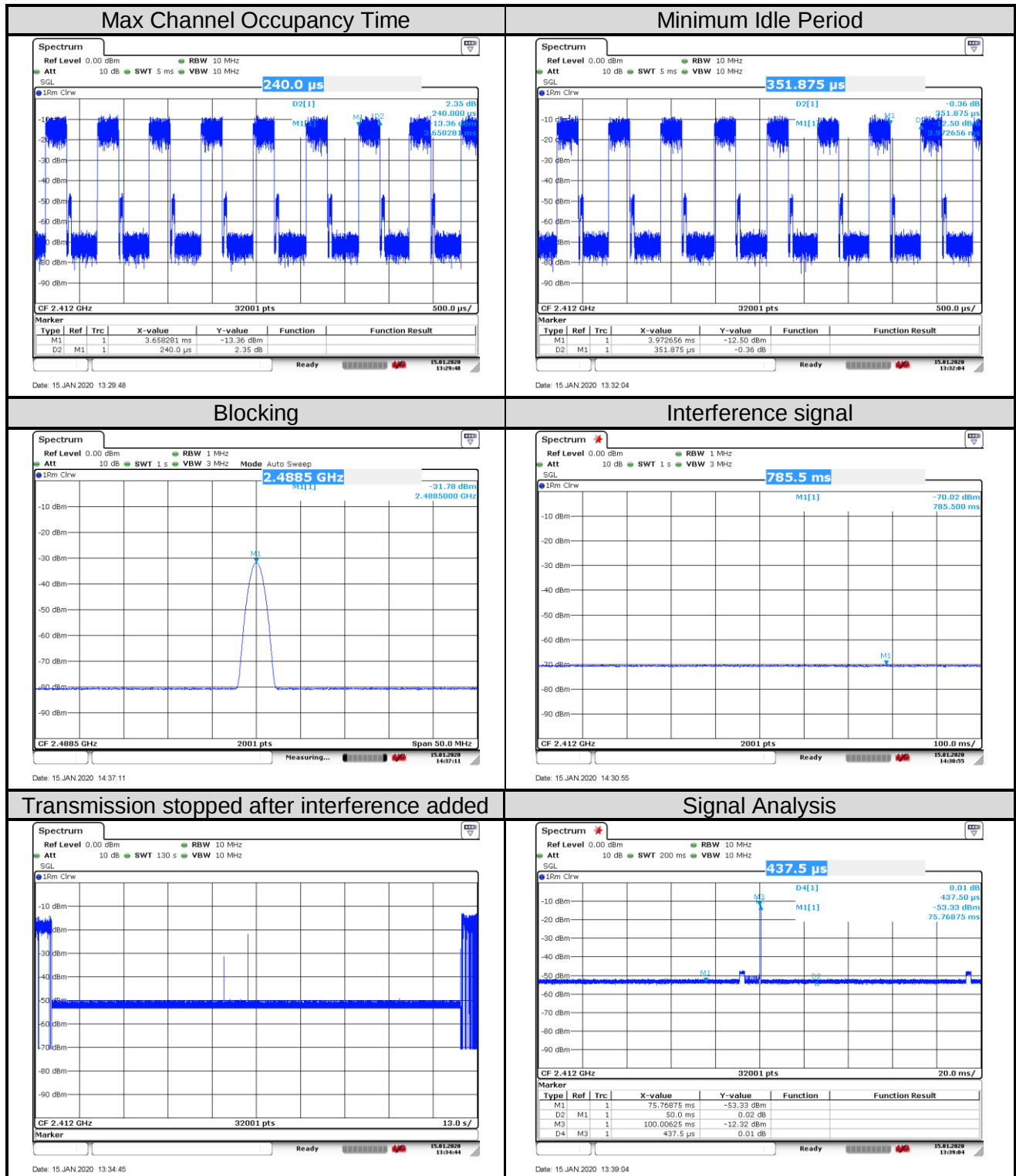
Figure 3: Adaptivity, TM28



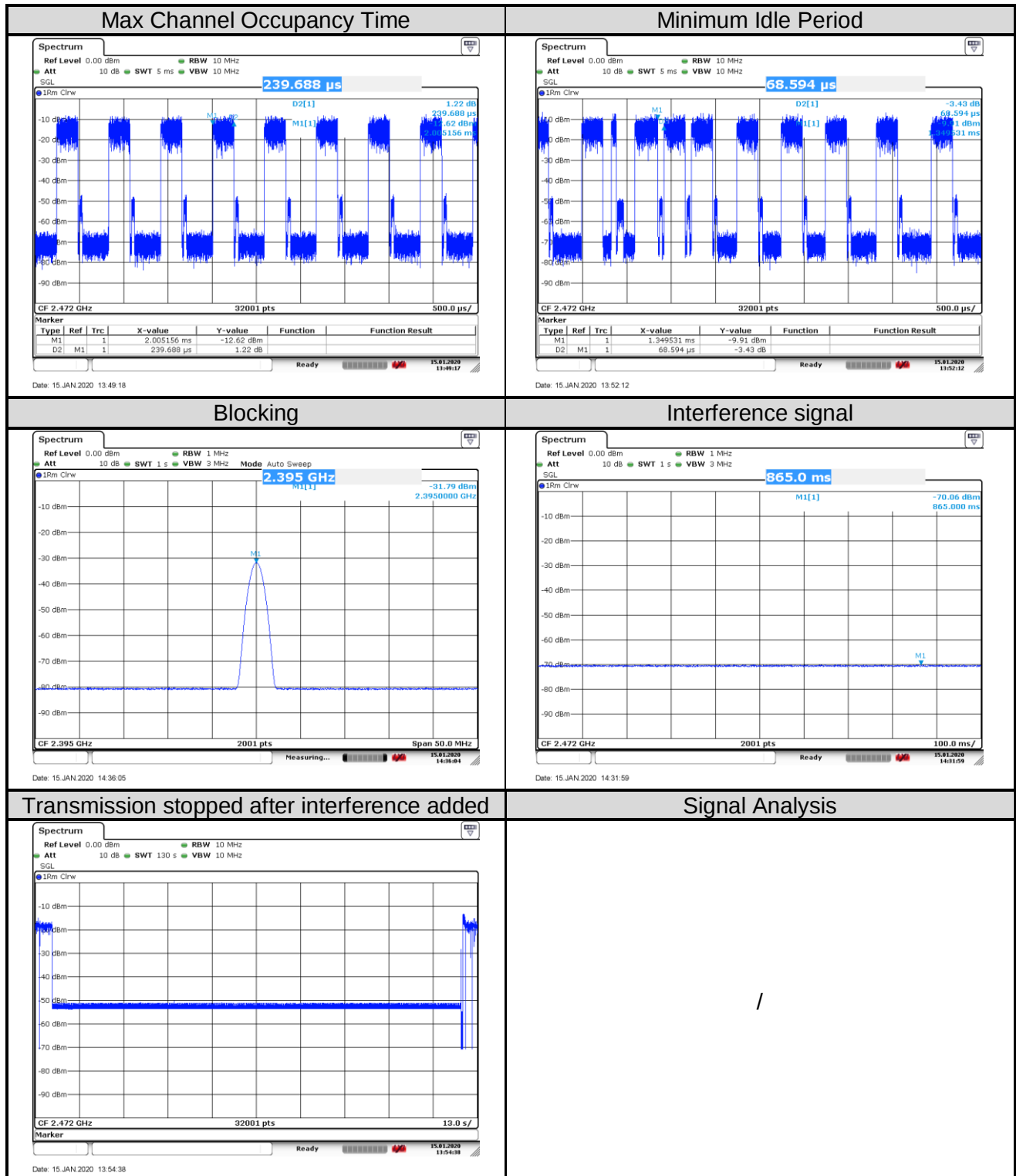
Note: Due to the max E.I.R.P is 19.83 dBm, the threshold level (TL) should be -69.83dBm/MHz. (TL = -70 dBm/MHz + 10*log(100mW/P_{out})). And actually, the TL used in the test is -70.13 dBm/MHz which is lower than -69.83dBm /MHz.

Figure 4: Adaptivity, TM30


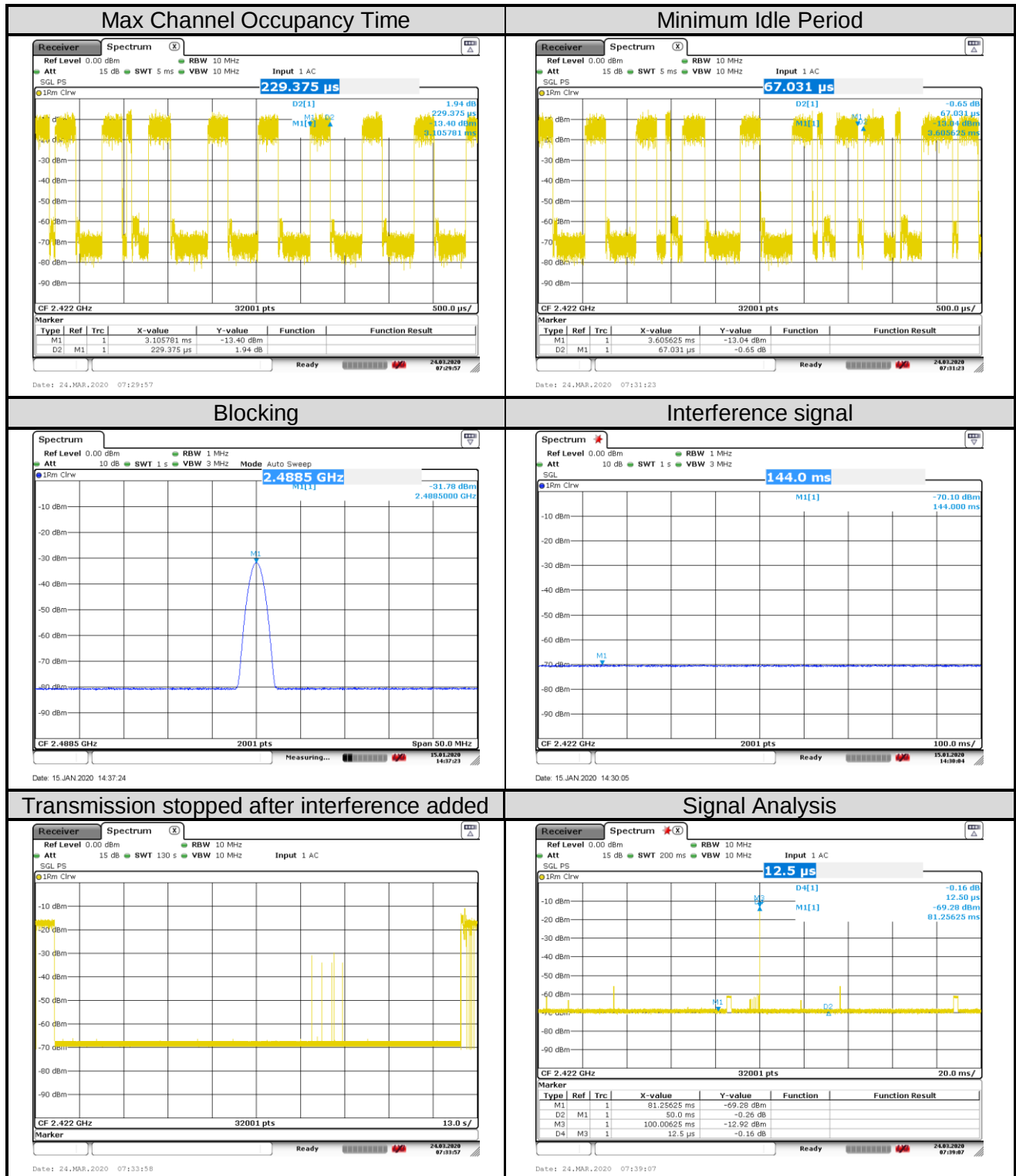
Note: Due to the max E.I.R.P is 19.18 dBm, the threshold level (TL) should be -69.18dBm/MHz. (TL = -70 dBm/MHz + 10*log(100mW/P_{out})). And actually, the TL used in the test is -70.14 dBm/MHz which is lower than -69.18dBm /MHz.

Figure 5: Adaptivity, TM31


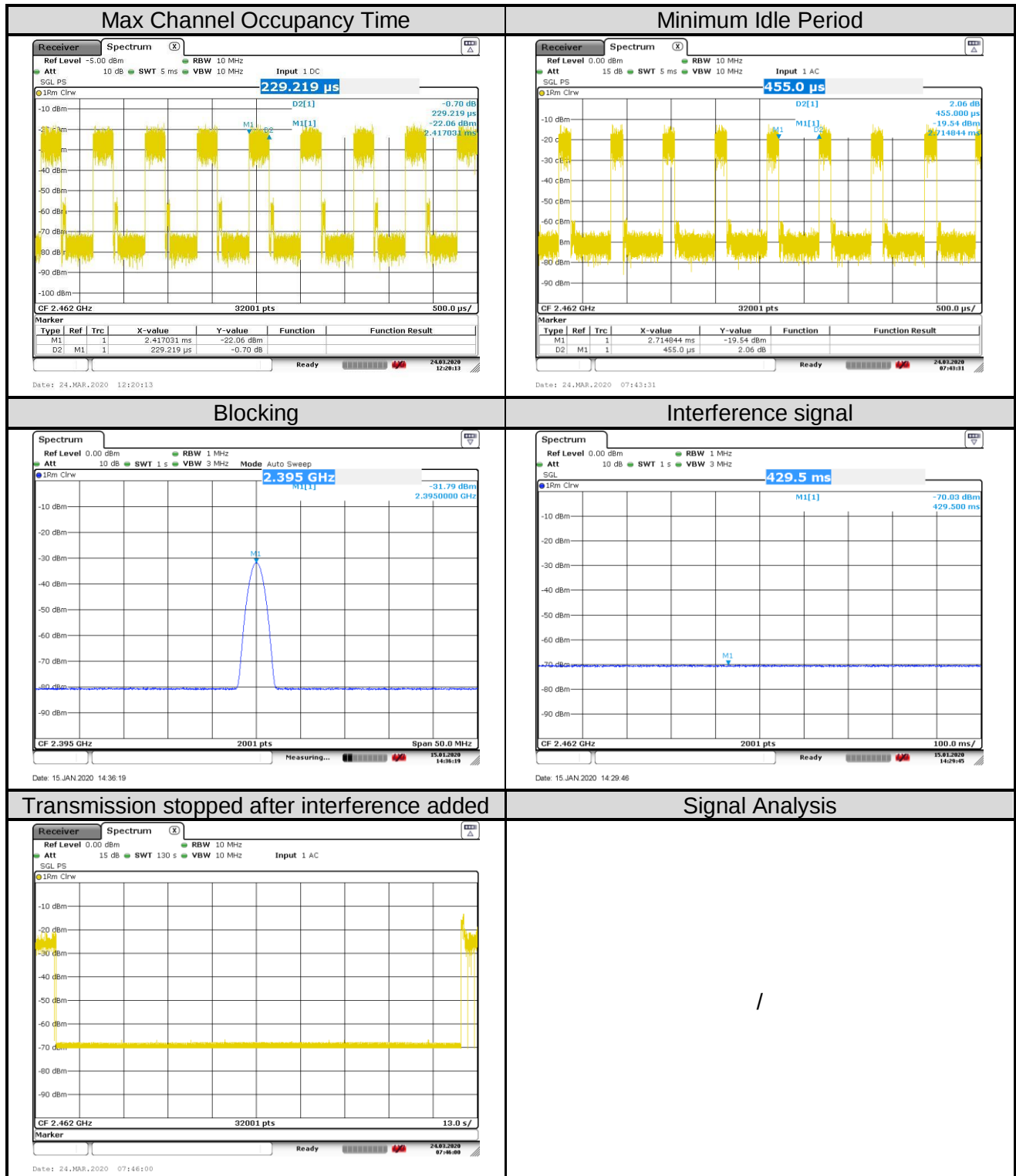
*Note: Due to the max E.I.R.P is 19.68 dBm, the threshold level (TL) should be -69.68dBm/MHz. (TL= -70 dBm/MHz + 10*log(100mW/P_{out})). And actually, the TL used in the test is -70.02 dBm/MHz which is lower than -69.68dBm /MHz.*

Figure 6: Adaptivity, TM33


Note: Due to the max E.I.R.P is 19.71 dBm, the threshold level (TL) should be -69.71dBm/MHz. (TL= -70 dBm/MHz + 10*log(100mW/P_{out})). And actually, the TL used in the test is -70.06 dBm/MHz which is lower than -69.71dBm /MHz.

Figure 7: Adaptivity, TM34


Note: Due to the max E.I.R.P is 19.85 dBm, the threshold level (TL) should be -69.85dBm/MHz. (TL= -70 dBm/MHz + 10*log(100mW/P_{out})). And actually, the TL used in the test is -70.10 dBm/MHz which is lower than -69.85dBm /MHz.

Figure 8: Adaptivity, TM36


Note: Due to the max E.I.R.P is 19.55 dBm, the threshold level (TL) should be -69.55dBm/MHz. (TL = -70 dBm/MHz + 10*log(100mW/P_{out})). And actually, the TL used in the test is -70.03 dBm/MHz which is lower than -69.55dBm /MHz.

5.1.6 Occupied Channel Bandwidth

RESULT:
PASS

Date of testing : 08.01.2020
 Ambient temperature : 25°C
 Relative humidity : 52%
 Atmospheric pressure : 101kPa
 Test requirement : EN 300 328 V2.1.1:2016, clause 4.3.2.7
 Test procedure : EN 300 328 V2.1.1:2016, clause 5.4.7.2
 Normal test voltage : DC 7.2V
 Test modes applied : TM1, TM3, TM4, TM6, TM7, TM9, TM10, TM12

Table 10: Occupied channel bandwidth

Operating Mode	Test Mode	Frequency [MHz]	99% Bandwidth [MHz]	Verdict
802.11b	TM1	2412	13.168	PASS
	TM3	2472	12.428	PASS
802.11g	TM4	2412	16.554	PASS
	TM6	2472	16.367	PASS
802.11n-HT20	TM7	2412	17.707	PASS
	TM9	2472	17.488	PASS
802.11n-HT40	TM10	2422	36.757	PASS
	TM12	2462	36.493	PASS

Note:

The Occupied Channel Bandwidth for each frequency shall fall completely within the band given in clause 1 '2,4 GHz to 2,4835 GHz'.

Figure 9: Occupied Channel Bandwidth, TM1

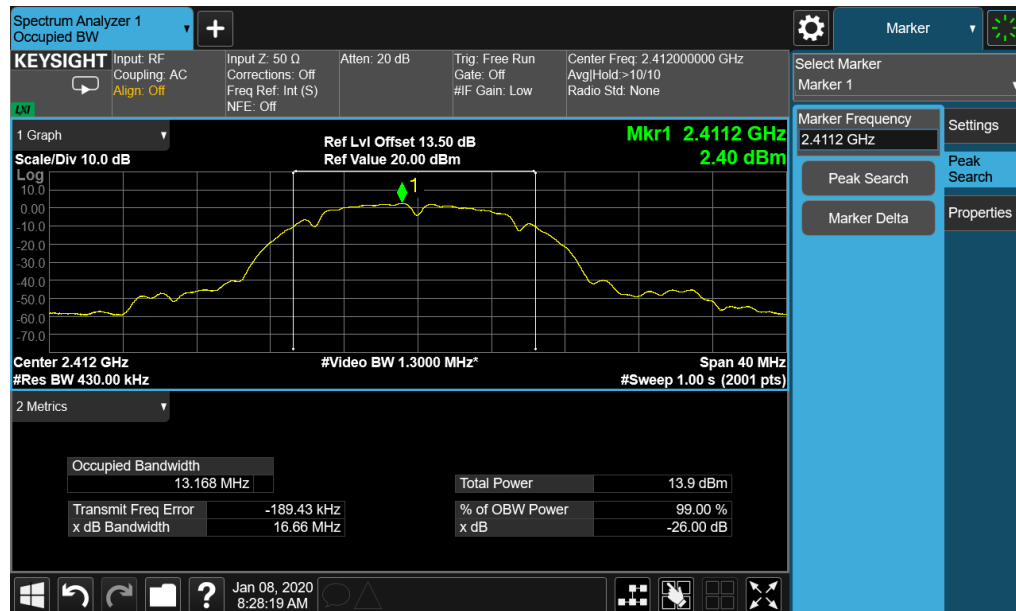


Figure 10: Occupied Channel Bandwidth, TM3

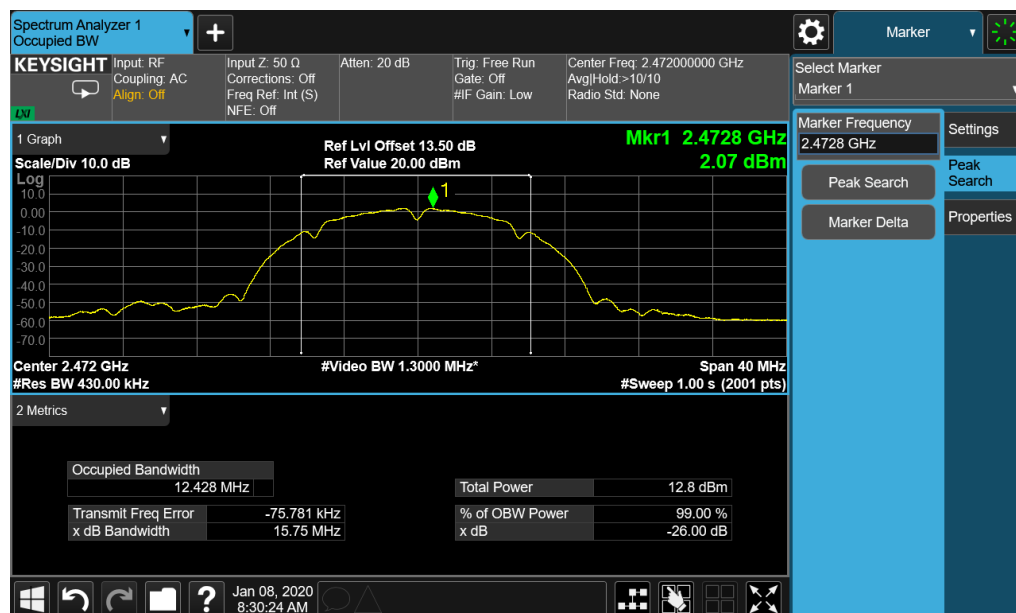


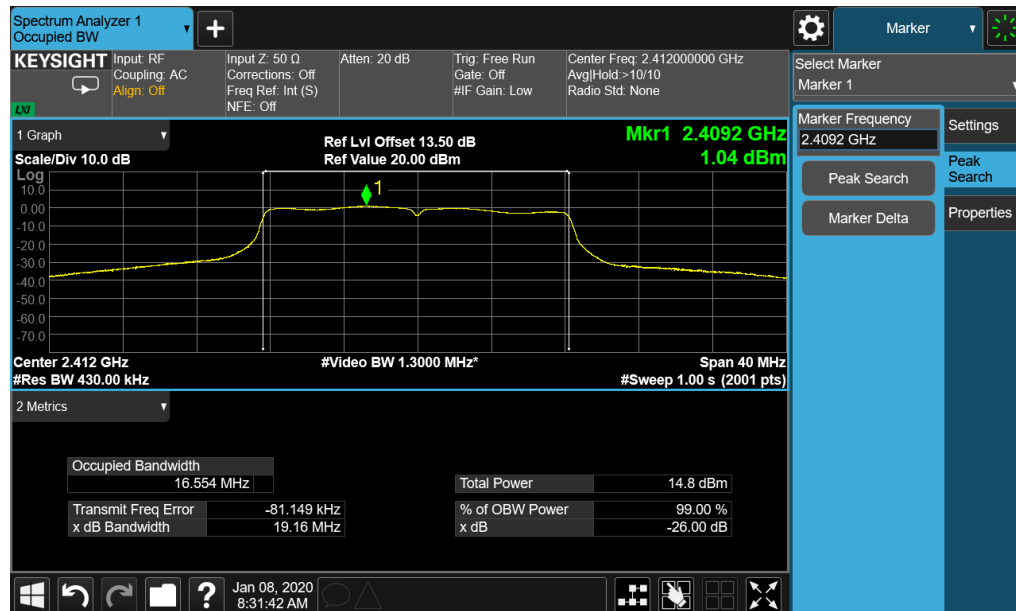
Figure 11: Occupied Channel Bandwidth, TM4

Figure 12: Occupied Channel Bandwidth, TM6


Figure 13: Occupied Channel Bandwidth, TM7

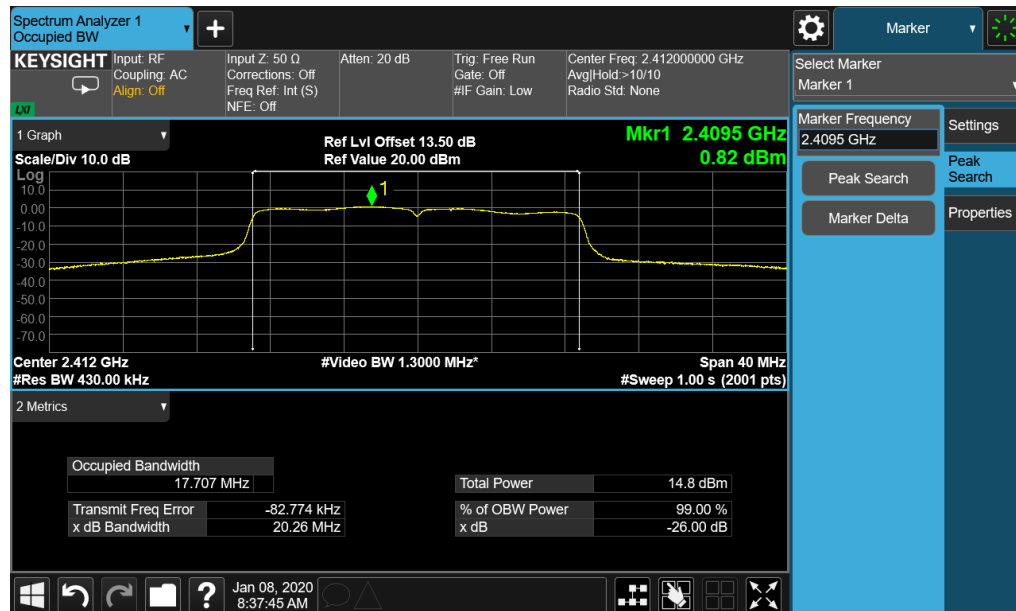
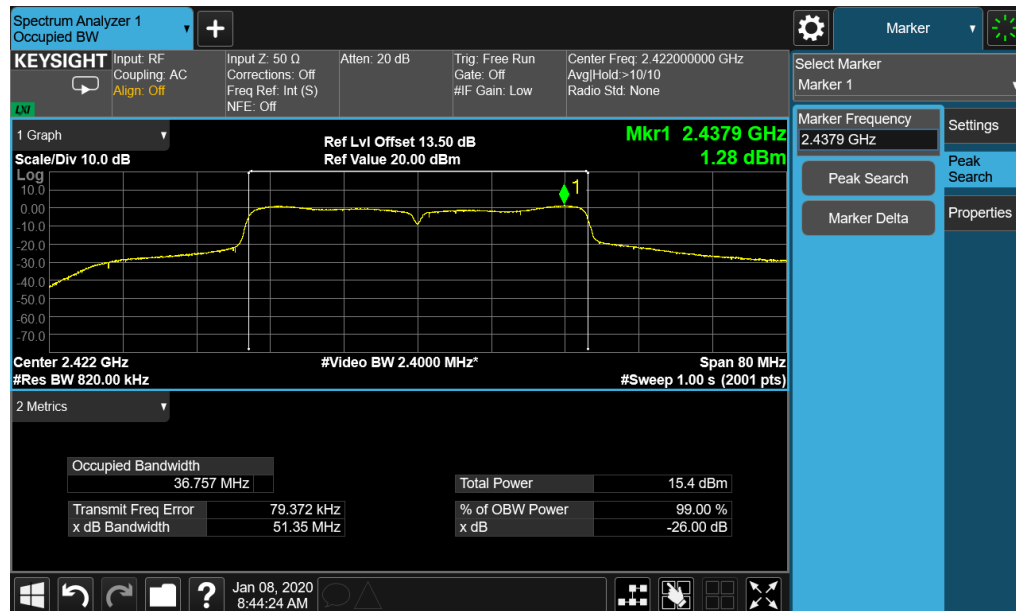
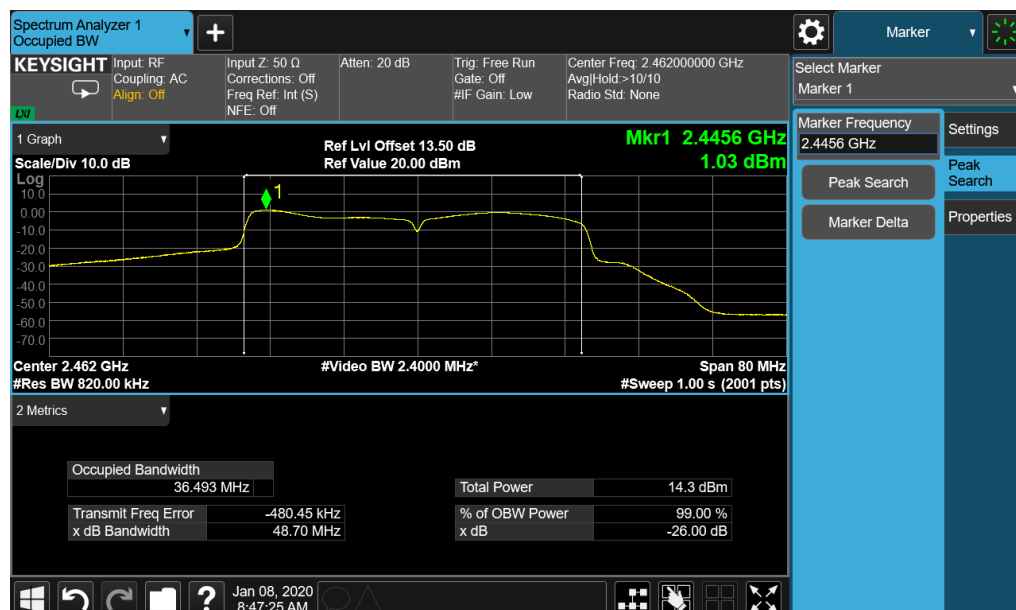


Figure 14: Occupied Channel Bandwidth, TM9



Figure 15: Occupied Channel Bandwidth, TM10

Figure 16: Occupied Channel Bandwidth, TM12


5.1.7 Transmitter unwanted emissions in the OOB domain

RESULT:
PASS

Date of testing : 08.01.2020
 Ambient temperature : 25°C
 Relative humidity : 54%
 Atmospheric pressure : 101kPa
 Test requirement : EN 300 328 V2.1.1:2016, clause 4.3.2.8
 Test procedure : EN 300 328 V2.1.1:2016, clause 5.4.8.2
 Normal test voltage : DC 7.2V
 Test modes applied : TM1, TM3, TM4, TM6, TM7, TM9, TM10, TM12

Table 11: Transmitter unwanted emissions in the OOB domain

Mode	Domain	Frequency [MHz]	Reading Values [dBm/MHz]	Gain [dBi]	Max measured Values [dBm/MHz]	Limit [dBm/MHz]
TM1	2400-2BW ~ 2400-BW	2386.33	-39.90	3.2	-36.70	-20
	2400-BW ~ 2400	2399.50	-35.25		-32.05	-10
TM3	2483.5 ~ 2483.5+BW	2484.00	-43.63		-40.43	-10
	2483.5+BW ~ 2483.5+2BW	2496.43	-56.25		-53.05	-20
TM4	2400-2BW ~ 2400-BW	2382.95	-37.91		-34.71	-20
	2400-BW ~ 2400	2399.50	-22.25		-19.05	-10
TM6	2483.5 ~ 2483.5+BW	2484.00	-24.87		-21.67	-10
	2483.5+BW ~ 2483.5+2BW	2500.37	-56.25		-53.05	-20
TM7	2400-2BW ~ 2400-BW	2381.79	-52.45		-49.25	-20
	2400-BW ~ 2400	2399.50	-27.01		-23.81	-10
TM9	2483.5 ~ 2483.5+BW	2484.00	-27.30		-24.10	-10
	2483.5+BW ~ 2483.5+2BW	2501.49	-56.07		-52.87	-20
TM10	2483.5 ~ 2483.5+BW	2362.74	-56.44		-53.24	-20
	2483.5+BW ~ 2483.5+2BW	2399.50	-25.45		-22.25	-10
TM12	2483.5 ~ 2483.5+BW	2484.00	-26.31		-23.11	-10
	2483.5+BW ~ 2483.5+2BW	2520.49	-56.00		-52.80	-20

Note:
Max measured Values = Reading Values + Antenna gain

5.1.8 Transmitter unwanted emissions in the spurious domain

RESULT:
PASS

Date of testing : 22.01.2020
 Ambient temperature : 25°C
 Relative humidity : 52%
 Atmospheric pressure : 101kPa
 Test requirement : EN 300 328 V2.1.1:2016, clause 4.3.2.9
 Test procedure : EN 300 328 V2.1.1:2016, clause 5.3.9.2
 Normal test voltage : DC 7.2V
 Test modes applied : TM1, TM3, TM4, TM6, TM7, TM9, TM10, TM12

Table 12: Transmitter unwanted emissions in the spurious domain

Mode	Freq. [MHz]	Measure Level [dBm]	Reading Level [dBm]	Over Limit [dB]	Limit [dBm]	Correct Factor [dB]	Detector Type	Pol.
TM1	647.890	-61.602	-92.725	-7.602	-54.000	31.123	PK	H
	720.155	-60.581	-93.619	-6.581	-54.000	33.038	PK	
	4824.625	-40.842	-58.334	-10.842	-30.000	17.492	PK	
	7550.625	-46.929	-73.161	-16.929	-30.000	26.232	PK	
	756.045	-62.574	-95.334	-8.574	-54.000	32.760	PK	V
	791.935	-62.025	-95.296	-8.025	-54.000	33.271	PK	
	4824.625	-39.345	-56.367	-9.345	-30.000	17.022	PK	
	7145.250	-49.283	-74.509	-19.283	-30.000	25.226	PK	
TM3	647.890	-61.804	-92.927	-7.804	-54.000	31.123	PK	H
	720.155	-60.273	-93.311	-6.273	-54.000	33.038	PK	
	4942.125	-40.566	-57.689	-10.566	-30.000	17.123	PK	
	7415.500	-47.803	-73.569	-17.803	-30.000	25.766	PK	
	720.155	-62.301	-94.664	-8.301	-54.000	32.363	PK	V
	791.935	-61.502	-94.773	-7.502	-54.000	33.271	PK	
	4942.125	-39.637	-56.598	-9.637	-30.000	16.961	PK	
	7239.250	-47.942	-73.555	-17.942	-30.000	25.613	PK	
TM4	647.890	-62.550	-93.673	-8.550	-54.000	31.123	PK	H
	720.155	-60.188	-93.226	-6.188	-54.000	33.038	PK	
	4824.625	-38.415	-55.907	-8.415	-30.000	17.492	PK	
	7227.500	-45.891	-71.395	-15.891	-30.000	25.504	PK	
	720.155	-62.950	-95.313	-8.950	-54.000	32.363	PK	V
	791.935	-61.277	-94.548	-7.277	-54.000	33.271	PK	
	4830.780	-38.518	-55.620	-8.518	-30.000	17.102	RMS	
	7480.125	-47.770	-73.381	-17.770	-30.000	25.611	PK	
TM6	720.155	-60.089	-93.127	-6.089	-54.000	33.038	PK	H
	819.560	-65.726	-99.470	-11.726	-54.000	33.744	RMS	
	4942.125	-39.064	-56.187	-9.064	-30.000	17.123	PK	
	7415.500	-45.205	-70.971	-15.205	-30.000	25.766	PK	
	720.155	-62.657	-95.020	-8.657	-54.000	32.363	PK	V
	791.935	-61.596	-94.867	-7.596	-54.000	33.271	PK	
	4948.200	-37.722	-54.650	-7.722	-30.000	16.928	RMS	
	7227.500	-48.421	-73.993	-18.421	-30.000	25.572	PK	

Prüfbericht - Nr.: 50356282 001
Seite 34 von 52
Test Report No.:
Page 34 of 52

TM7	720.155	-60.291	-93.329	-6.291	-54.000	33.038	PK	H
	819.630	-66.100	-99.850	-12.100	-54.000	33.750	RMS	
	4824.625	-37.965	-55.457	-7.965	-30.000	17.492	PK	
	7227.500	-47.031	-72.535	-17.031	-30.000	25.504	PK	
	720.155	-62.799	-95.162	-8.799	-54.000	32.363	PK	V
	791.935	-61.107	-94.378	-7.107	-54.000	33.271	PK	
	4818.990	-36.802	-53.780	-6.802	-30.000	16.978	RMS	
	7533.000	-48.249	-74.182	-18.249	-30.000	25.933	PK	
TM9	621.215	-62.652	-92.745	-8.652	-54.000	30.093	PK	H
	720.155	-60.187	-93.225	-6.187	-54.000	33.038	PK	
	4942.540	-36.008	-53.120	-6.008	-30.000	17.112	RMS	
	7409.625	-44.928	-70.652	-14.928	-30.000	25.724	PK	
	720.155	-61.918	-94.281	-7.918	-54.000	32.363	PK	V
	791.935	-61.451	-94.722	-7.451	-54.000	33.271	PK	
	4942.520	-37.731	-54.680	-7.731	-30.000	16.949	RMS	
	7256.875	-47.654	-73.264	-17.654	-30.000	25.610	PK	
TM10	621.215	-62.988	-93.081	-8.988	-54.000	30.093	PK	H
	720.155	-60.458	-93.496	-6.458	-54.000	33.038	PK	
	4818.750	-38.017	-55.353	-8.017	-30.000	17.336	PK	
	7227.500	-47.193	-72.697	-17.193	-30.000	25.504	PK	
	720.155	-62.853	-95.216	-8.853	-54.000	32.363	PK	V
	791.935	-61.514	-94.785	-7.514	-54.000	33.271	PK	
	4824.625	-37.559	-54.581	-7.559	-30.000	17.022	PK	
	7480.125	-47.984	-73.595	-17.984	-30.000	25.611	PK	
TM12	720.630	-64.303	-97.360	-10.303	-54.000	33.057	RMS	H
	819.095	-60.827	-94.529	-6.827	-54.000	33.702	PK	
	4918.625	-43.034	-60.329	-13.034	-30.000	17.295	PK	
	7162.875	-48.338	-73.910	-18.338	-30.000	25.572	PK	
	720.155	-62.894	-95.257	-8.894	-54.000	32.363	PK	V
	791.935	-60.493	-93.764	-6.493	-54.000	33.271	PK	
	4912.750	-41.075	-58.164	-11.075	-30.000	17.089	PK	
	7092.375	-48.657	-73.611	-18.657	-30.000	24.954	PK	

5.2 Receiver Parameters

5.2.1 Receiver Spurious Emissions

RESULT:
PASS

Date of testing : 22.01.2020
 Ambient temperature : 25°C
 Relative humidity : 52%
 Atmospheric pressure : 101kPa
 Test requirement : EN 300 328 V2.1.1:2016, clause 4.3.2.10
 Test procedure : EN 300 328 V2.1.1:2016, clause 5.4.10.2
 Normal test voltage : DC 7.2V
 Test modes applied : TM13, TM15, TM16, TM18, TM19, TM21, TM22, TM24

Table 13: Receiver Spurious Emissions

Mode	Freq. [MHz]	Measure Level [dBm]	Reading Level [dBm]	Over Limit [dB]	Limit [dBm]	Correct Factor [dB]	Detector Type	Pol.
TM13	288.520	-63.775	-87.630	-6.775	-57.000	23.855	RMS	H
	864.210	-62.829	-97.230	-5.829	-57.000	34.401	RMS	
	1111.625	-53.587	-62.795	-6.587	-47.000	9.208	PK	
	1658.000	-54.280	-62.932	-7.280	-47.000	8.652	PK	
	327.305	-64.810	-90.854	-7.810	-57.000	26.044	PK	V
	940.850	-64.006	-98.550	-7.006	-57.000	34.544	RMS	
	1581.625	-53.468	-62.469	-6.468	-47.000	9.001	PK	
	1799.000	-55.285	-63.219	-8.285	-47.000	7.934	PK	
TM15	288.080	-64.600	-88.470	-7.600	-57.000	23.870	RMS	H
	864.589	-65.487	-99.850	-8.487	-57.000	34.363	RMS	
	1152.750	-53.082	-58.878	-6.082	-47.000	5.796	PK	
	1581.625	-53.581	-62.453	-6.581	-47.000	8.872	PK	
	792.740	-66.422	-99.680	-9.422	-57.000	33.258	RMS	V
	864.521	-65.628	-99.580	-8.628	-57.000	33.952	RMS	
	1152.750	-53.763	-58.706	-6.763	-47.000	4.943	PK	
	1581.625	-54.324	-63.325	-7.324	-47.000	9.001	PK	
TM16	326.500	-62.330	-87.520	-5.330	-57.000	25.190	RMS	H
	864.290	-62.990	-97.380	-5.990	-57.000	34.390	RMS	
	1182.960	-58.326	-67.850	-11.326	-47.000	9.524	RMS	
	1799.000	-53.971	-62.381	-6.971	-47.000	8.410	PK	
	349.130	-64.451	-90.695	-7.451	-57.000	26.244	PK	V
	792.850	-64.364	-97.620	-7.364	-57.000	33.256	RMS	
	1152.750	-55.576	-60.519	-8.576	-47.000	4.943	PK	
	1581.625	-54.721	-63.722	-7.721	-47.000	9.001	PK	
TM18	289.630	-63.750	-87.600	-6.750	-57.000	23.850	RMS	H
	864.520	-62.976	-97.340	-5.976	-57.000	34.364	RMS	
	1152.750	-53.154	-58.950	-6.154	-47.000	5.796	PK	
	1440.625	-54.500	-63.636	-7.500	-47.000	9.136	PK	
	792.330	-66.274	-99.540	-9.274	-57.000	33.266	RMS	V
	864.420	-65.927	-99.890	-8.927	-57.000	33.963	RMS	

Prüfbericht - Nr.: 50356282 001
Seite 36 von 52
Test Report No.:
Page 36 of 52

	1581.625	-54.413	-63.414	-7.413	-47.000	9.001	PK	
	1969.375	-57.914	-66.996	-10.914	-47.000	9.082	PK	
TM19	289.700	-62.417	-86.270	-5.417	-57.000	23.853	RMS	H
	864.900	-63.662	-98.020	-6.662	-57.000	34.358	RMS	
	1152.890	-56.838	-62.630	-9.838	-47.000	5.792	RMS	
	1799.000	-54.205	-62.615	-7.205	-47.000	8.410	PK	
	792.110	-66.591	-99.860	-9.591	-57.000	33.269	RMS	V
	864.630	-63.604	-97.550	-6.604	-57.000	33.946	RMS	
	1581.625	-55.233	-64.234	-8.233	-47.000	9.001	PK	
	2427.625	-56.182	-68.131	-9.182	-47.000	11.949	PK	
TM21	289.520	-62.424	-86.270	-5.424	-57.000	23.846	RMS	H
	864.520	-62.996	-97.360	-5.996	-57.000	34.364	RMS	
	1152.750	-53.535	-59.331	-6.535	-47.000	5.796	PK	
	1440.625	-54.322	-63.458	-7.322	-47.000	9.136	PK	
	792.200	-66.297	-99.565	-9.297	-57.000	33.268	RMS	V
	864.510	-65.921	-99.874	-8.921	-57.000	33.953	RMS	
	1152.750	-54.338	-59.281	-7.338	-47.000	4.943	PK	
	1581.625	-54.728	-63.729	-7.728	-47.000	9.001	PK	
TM22	289.560	-63.312	-87.160	-6.312	-57.000	23.848	RMS	H
	864.520	-62.826	-97.190	-5.826	-57.000	34.364	RMS	
	1152.880	-57.728	-63.520	-10.728	-47.000	5.792	RMS	
	1440.625	-53.598	-62.734	-6.598	-47.000	9.136	PK	
	791.630	-66.145	-99.420	-9.145	-57.000	33.275	RMS	V
	864.550	-65.690	-99.640	-8.690	-57.000	33.950	RMS	
	1152.750	-54.702	-59.645	-7.702	-47.000	4.943	PK	
	1581.625	-54.761	-63.762	-7.761	-47.000	9.001	PK	
TM24	289.630	-62.460	-86.310	-5.460	-57.000	23.850	RMS	H
	865.120	-63.166	-97.520	-6.166	-57.000	34.354	RMS	
	1152.750	-53.678	-59.474	-6.678	-47.000	5.796	PK	
	1540.500	-54.500	-62.340	-7.500	-47.000	7.840	PK	
	792.330	-66.474	-99.740	-9.474	-57.000	33.266	RMS	V
	864.330	-64.973	-98.950	-7.973	-57.000	33.977	RMS	
	1323.125	-56.853	-65.558	-9.853	-47.000	8.705	PK	
	1581.625	-53.796	-62.797	-6.796	-47.000	9.001	PK	

5.2.2 Receiver Blocking

RESULT:
PASS

Date of testing : 10.01.2020
 Ambient temperature : 25°C
 Relative humidity : 52%
 Atmospheric pressure : 101kPa
 Test requirement : EN 300 328 V2.1.1:2016, clause 4.3.2.11
 Test procedure : EN 300 328 V2.1.1:2016, clause 5.4.11.2
 Normal test voltage : DC 7.2V
 Test modes applied : TM25, TM27, TM28, TM30

Table 14: Receiver Blocking, TM25

P _{min} [dBm]	Wanted signal mean power from companion device [dBm]	Blocking signal frequency [MHz]	Blocking signal power [dBm]	PER [%]	Limit [%]	Verdict
-96	-90	2300	-43.8	1.8	10	Pass
		2330	-43.8	1.4	10	Pass
		2360	-43.8	1.1	10	Pass
		2380	-49.8	1.5	10	Pass
		2503.5	-49.8	1.1	10	Pass
		2523.5	-43.8	1.1	10	Pass
		2553.5	-43.8	1.9	10	Pass
		2583.5	-43.8	0.8	10	Pass
		2613.5	-43.8	0.5	10	Pass
		2643.5	-43.8	1.4	10	Pass
		2673.5	-43.8	0.8	10	Pass

Table 15: Receiver Blocking, TM27

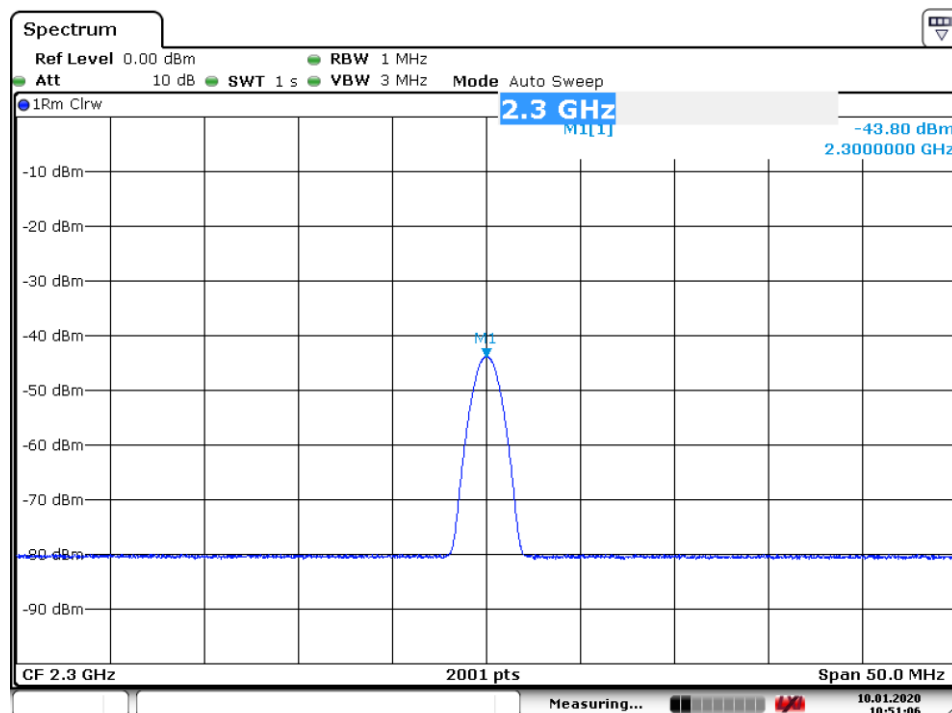
P _{min} [dBm]	Wanted signal mean power from companion device [dBm]	Blocking signal frequency [MHz]	Blocking signal power [dBm]	PER [%]	Limit [%]	Verdict
-95	-89	2300	-43.8	1.5	10	Pass
		2330	-43.8	2.9	10	Pass
		2360	-43.8	2.5	10	Pass
		2380	-49.8	1.2	10	Pass
		2503.5	-49.8	1.9	10	Pass
		2523.5	-43.8	2.1	10	Pass
		2553.5	-43.8	2.0	10	Pass
		2583.5	-43.8	1.4	10	Pass
		2613.5	-43.8	1.5	10	Pass
		2643.5	-43.8	1.8	10	Pass
		2673.5	-43.8	1.4	10	Pass

Table 16: Receiver Blocking, TM28

P _{min} [dBm]	Wanted signal mean power from companion device [dBm]	Blocking signal frequency [MHz]	Blocking signal power [dBm]	PER [%]	Limit [%]	Verdict
-96	-90	2300	-43.8	2.9	10	Pass
		2330	-43.8	1.6	10	Pass
		2360	-43.8	2.4	10	Pass
		2380	-49.8	3.6	10	Pass
		2503.5	-49.8	4.1	10	Pass
		2523.5	-43.8	2.3	10	Pass
		2553.5	-43.8	2.2	10	Pass
		2583.5	-43.8	2.3	10	Pass
		2613.5	-43.8	1.4	10	Pass
		2643.5	-43.8	2.6	10	Pass
		2673.5	-43.8	1.8	10	Pass

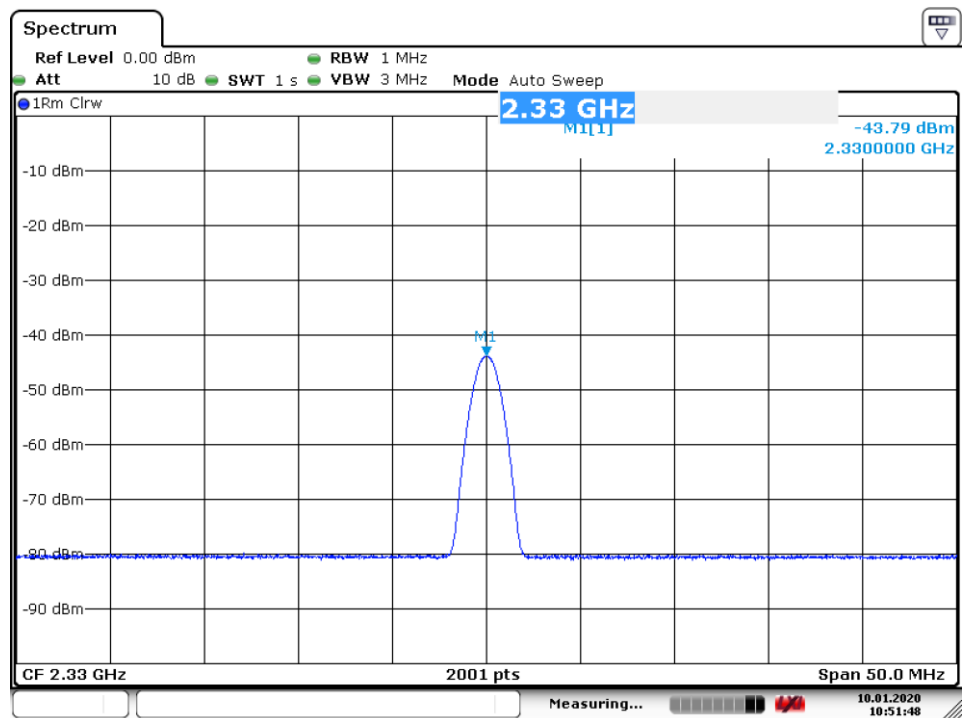
Table 17: Receiver Blocking, TM30

P_{min} [dBm]	Wanted signal mean power from companion device [dBm]	Blocking signal frequency [MHz]	Blocking signal power [dBm]	PER [%]	Limit [%]	Verdict
-95	-89	2300	-43.8	1.6	10	Pass
		2330	-43.8	1.0	10	Pass
		2360	-43.8	1.2	10	Pass
		2380	-49.8	1.5	10	Pass
		2503.5	-49.8	1.7	10	Pass
		2523.5	-43.8	2.1	10	Pass
		2553.5	-43.8	1.4	10	Pass
		2583.5	-43.8	2.5	10	Pass
		2613.5	-43.8	1.4	10	Pass
		2643.5	-43.8	1.4	10	Pass
		2673.5	-43.8	2.8	10	Pass

Figure 17: Blocking Signal, 2300MHz


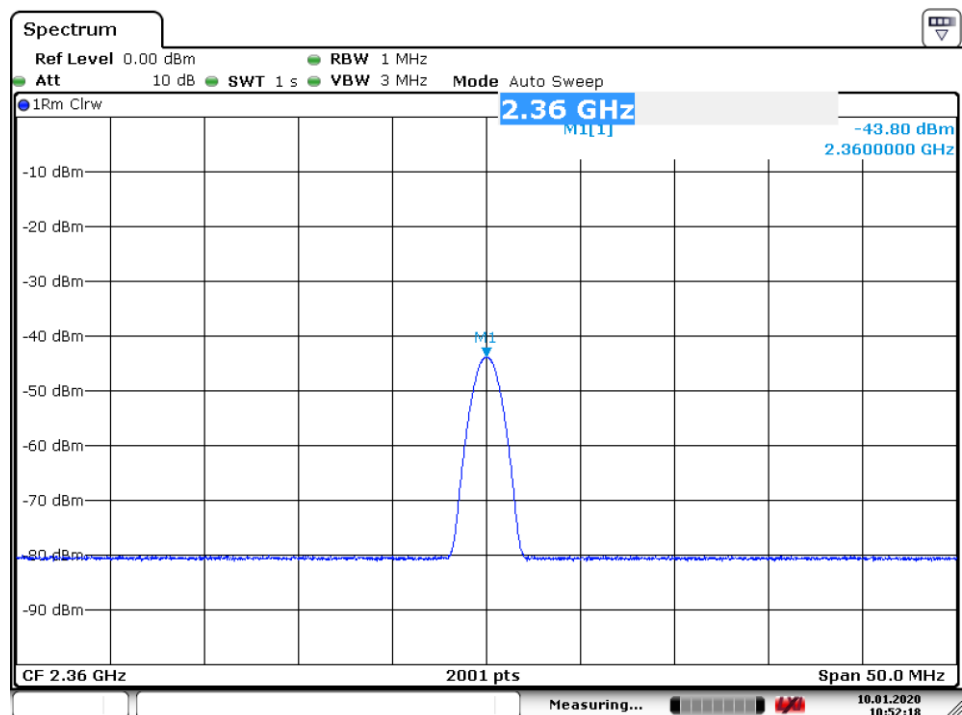
Date: 10. JAN. 2020 10:51:07

Figure 18: Blocking Signal, 2330MHz

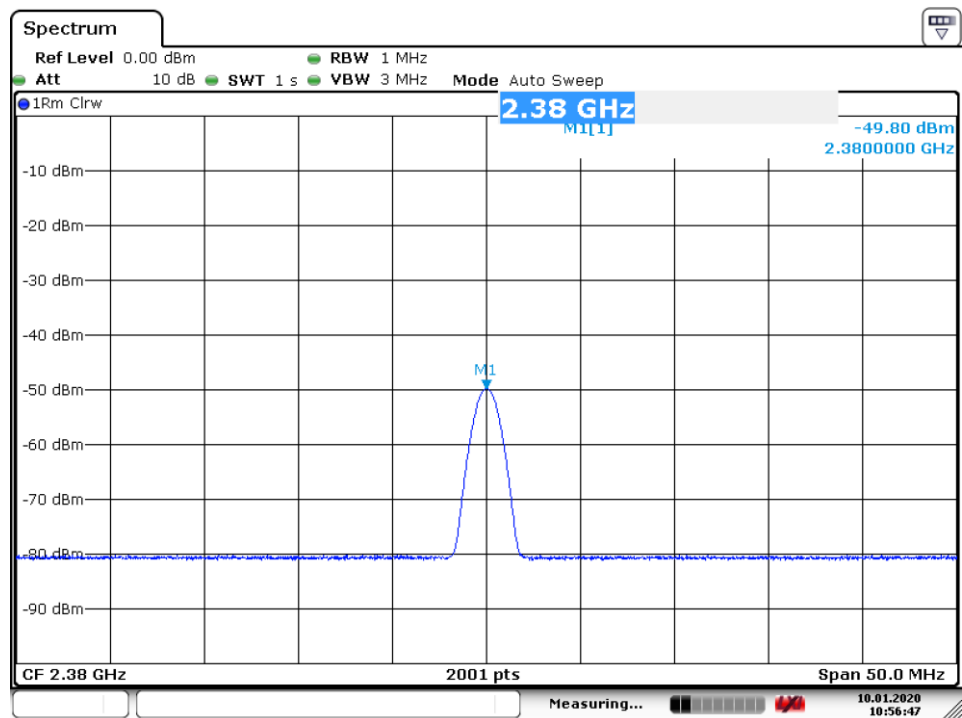


Date: 10.JAN.2020 10:51:48

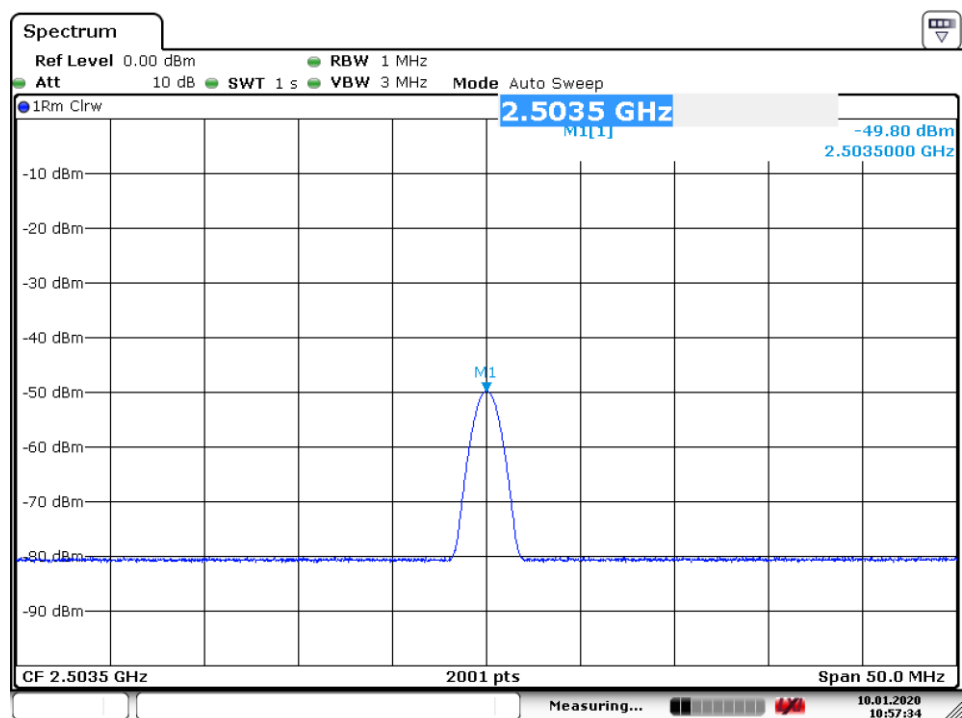
Figure 19: Blocking Signal, 2360MHz



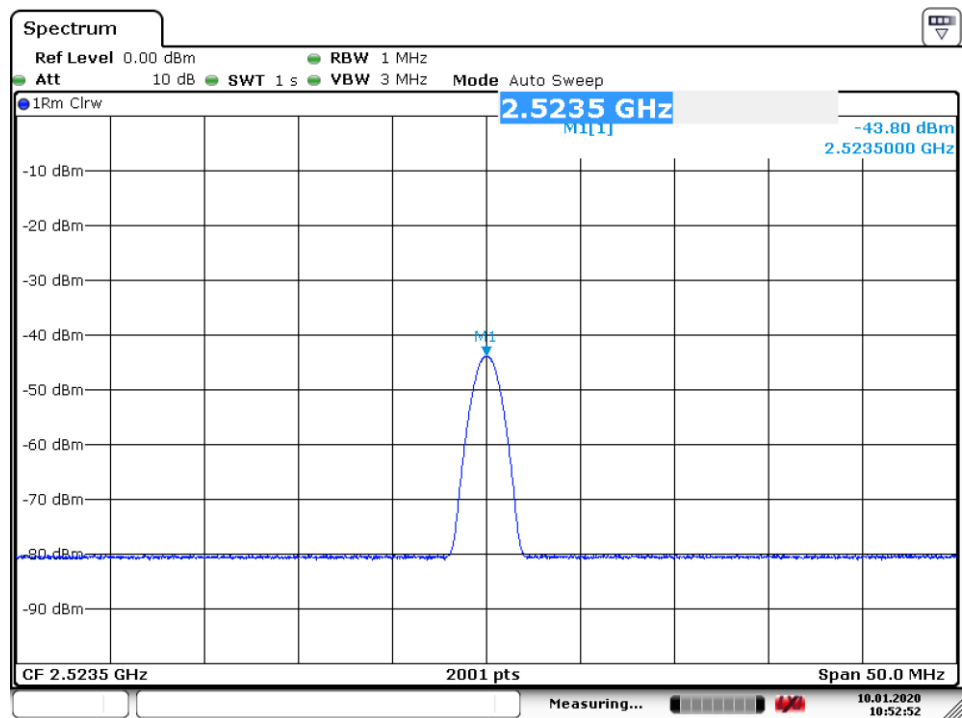
Date: 10.JAN.2020 10:52:19

Figure 20: Blocking Signal, 2380MHz


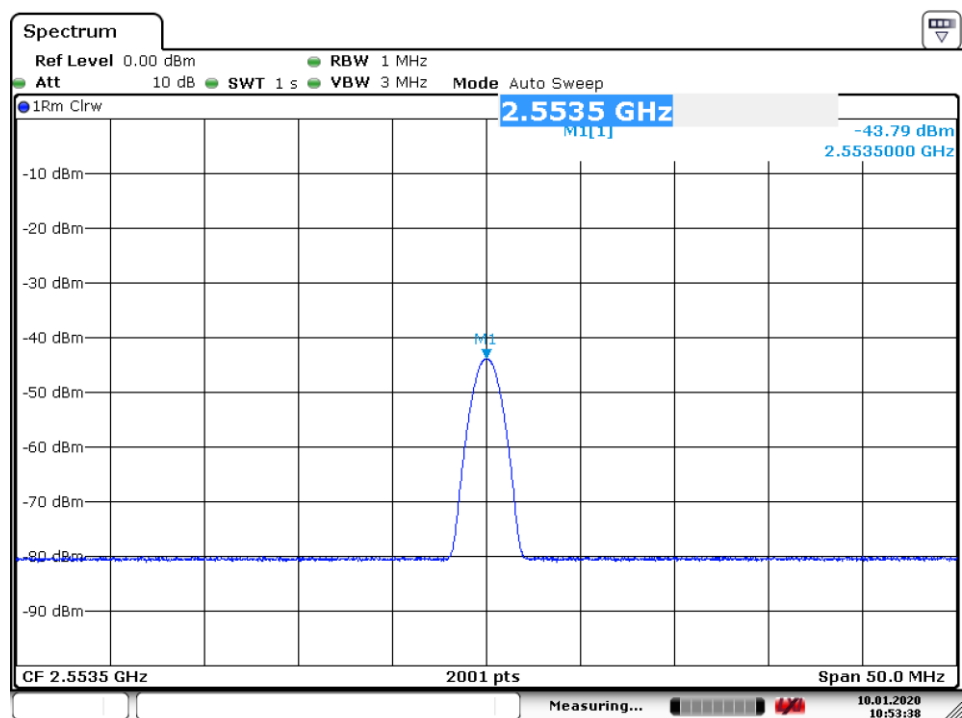
Date: 10. JAN. 2020 10:56:48

Figure 21: Blocking Signal, 2503.5MHz


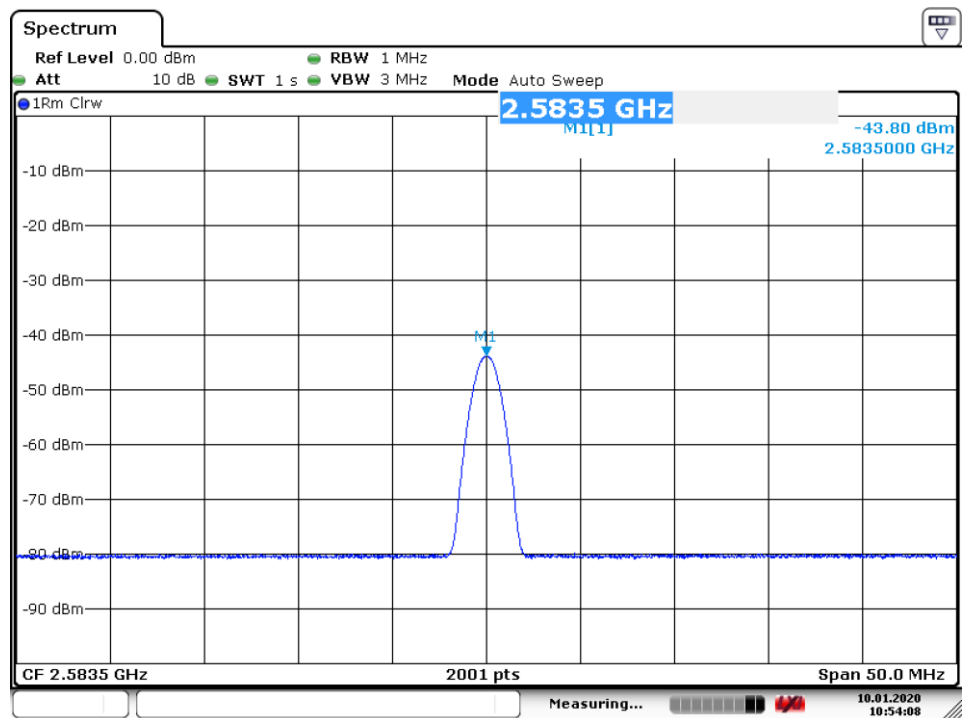
Date: 10. JAN. 2020 10:57:34

Figure 22: Blocking Signal, 2523.5MHz


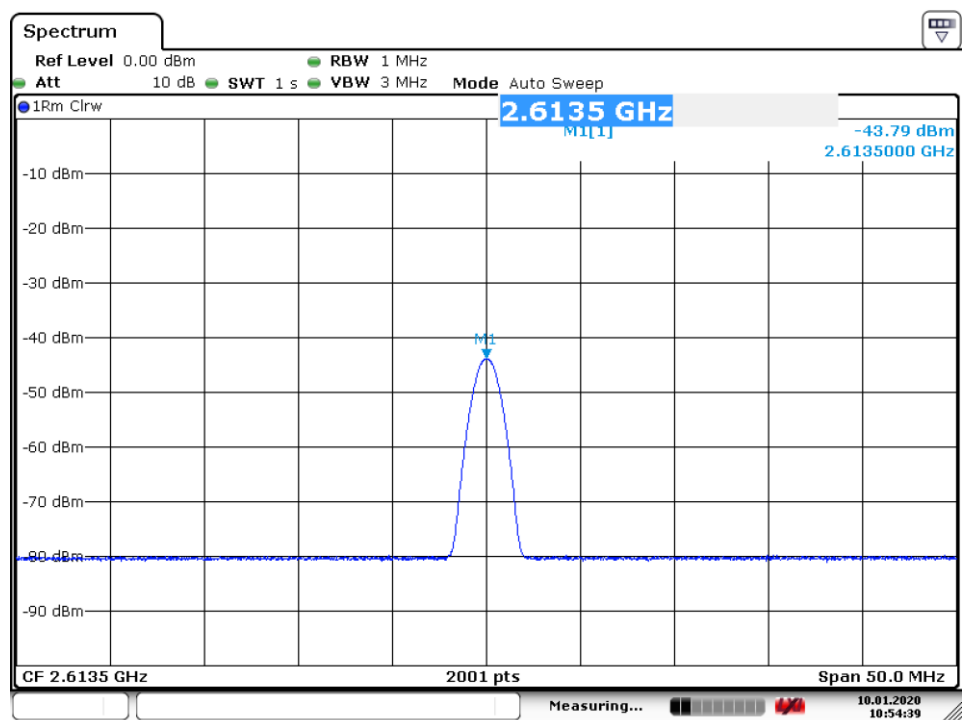
Date: 10. JAN. 2020 10:52:52

Figure 23: Blocking Signal, 2553.5MHz


Date: 10. JAN. 2020 10:53:39

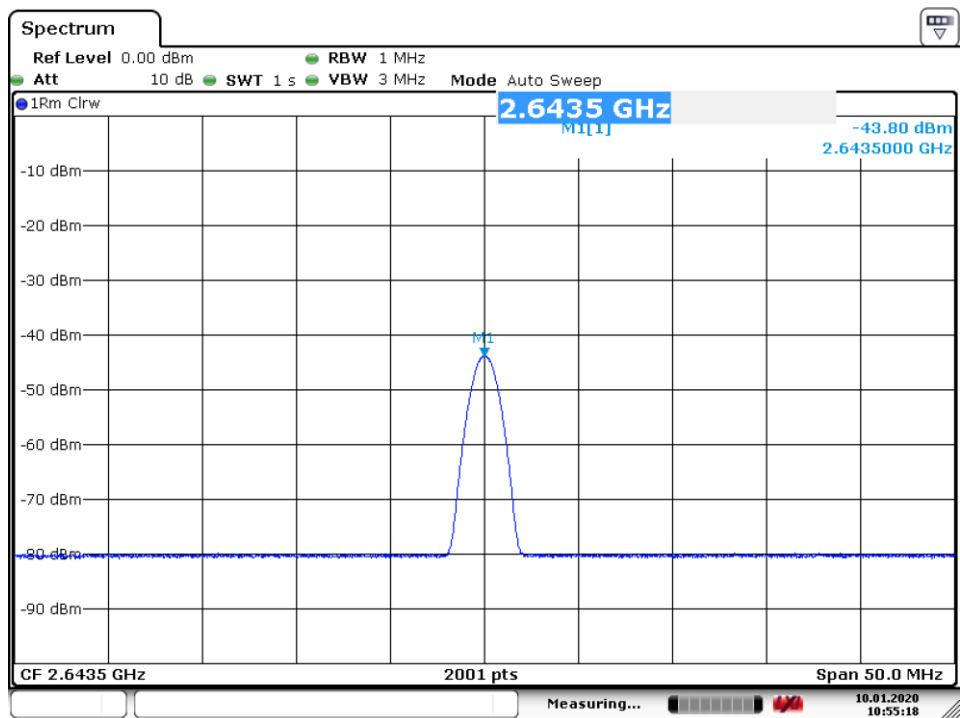
Figure 24: Blocking Signal, 2583.5MHz


Date: 10. JAN. 2020 10:54:08

Figure 25: Blocking Signal, 2613.5MHz


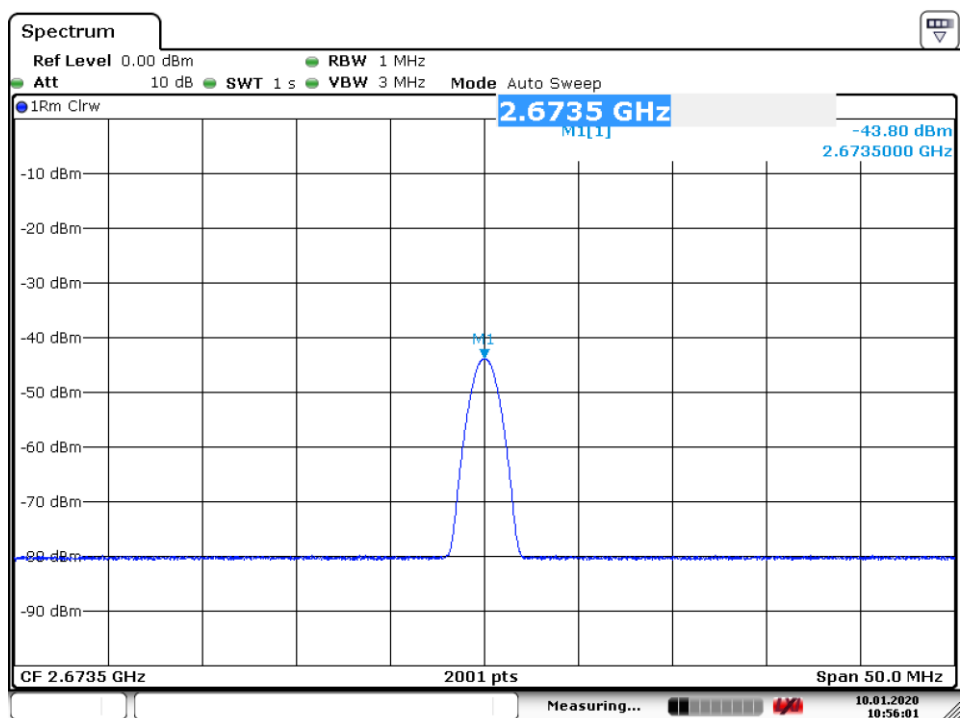
Date: 10. JAN. 2020 10:54:39

Figure 26: Blocking Signal, 2643.5MHz



Date: 10. JAN. 2020 10:55:18

Figure 27: Blocking Signal, 2673.5MHz



Date: 10. JAN. 2020 10:56:02

6. Other Evaluation of RED 2014/53/EU

6.1 Article 3.1a

6.1.1 Electrical Safety Requirement

RESULT:**PASS**

Evaluation procedure : EN 61010-1:2010

Test details refer to test report 50337854 001 issued by TUV Rheinland (Shanghai) Co., Ltd.

6.1.2 Human Exposure to EM Fields

RESULT:**PASS**

Evaluation procedure : EN 50566:2017

Test details refer to test report 2001WSU003-E1 issued by MRT Technology (Suzhou) Co., Ltd. which has been reviewed by TUV Rheinland (Shanghai) Co., Ltd.

6.2 Article 3.1b

6.2.1 Electromagnetic Compatibility Requirement

RESULT:**PASS**

Evaluation procedure : EN 61326-1:2013

Test details refer to test report 50332005 001 issued by TUV Rheinland (Shanghai) Co., Ltd.

Evaluation procedure : EN 301 489-1 V2.2.3:2019

EN 301 489-17 V3.1.1:2017

Test details refer to test report 50332004 001 issued by TUV Rheinland (Shanghai) Co., Ltd.

Prüfbericht - Nr.: 50356282 001*Test Report No.:***Seite 46 von 52***Page 46 of 52*

6.3 Article 3.2

6.3.1 Radio Requirement

RESULT:**PASS**

Evaluation procedure : EN 300 328 V2.1.1:2016

Test details refer to test report 50356283 001 and 50356284 001 issued by
TUV Rheinland (Shanghai) Co., Ltd.

7. Photographs of the Sample and Test Setup

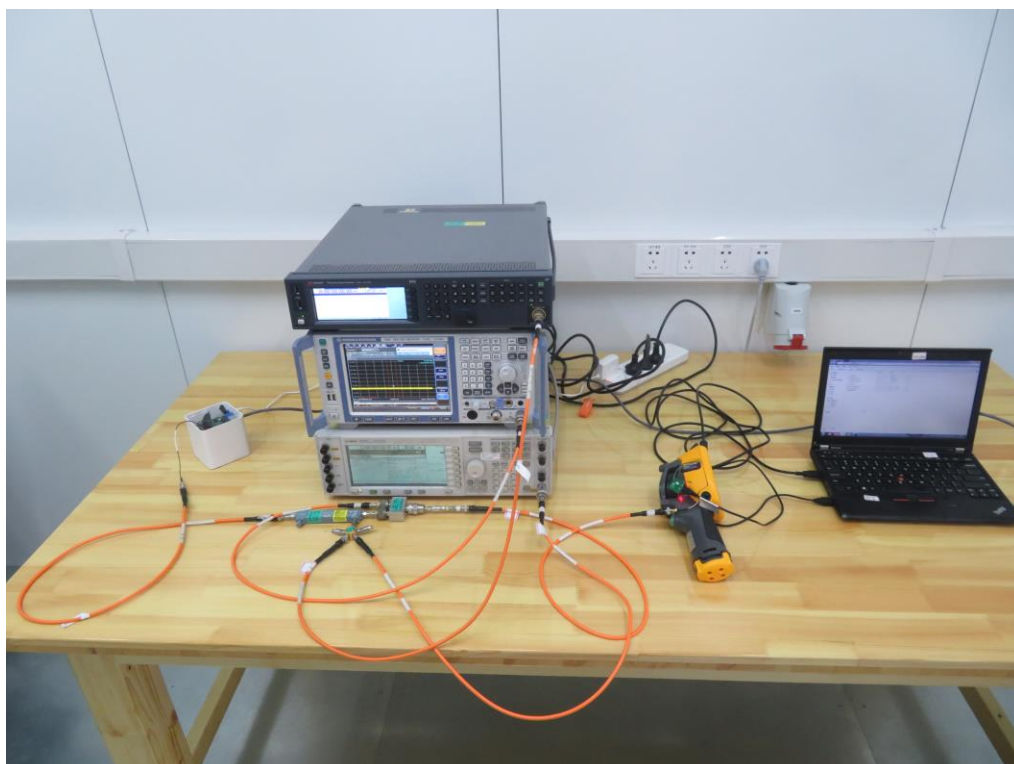
Photograph 1: EUT Photo



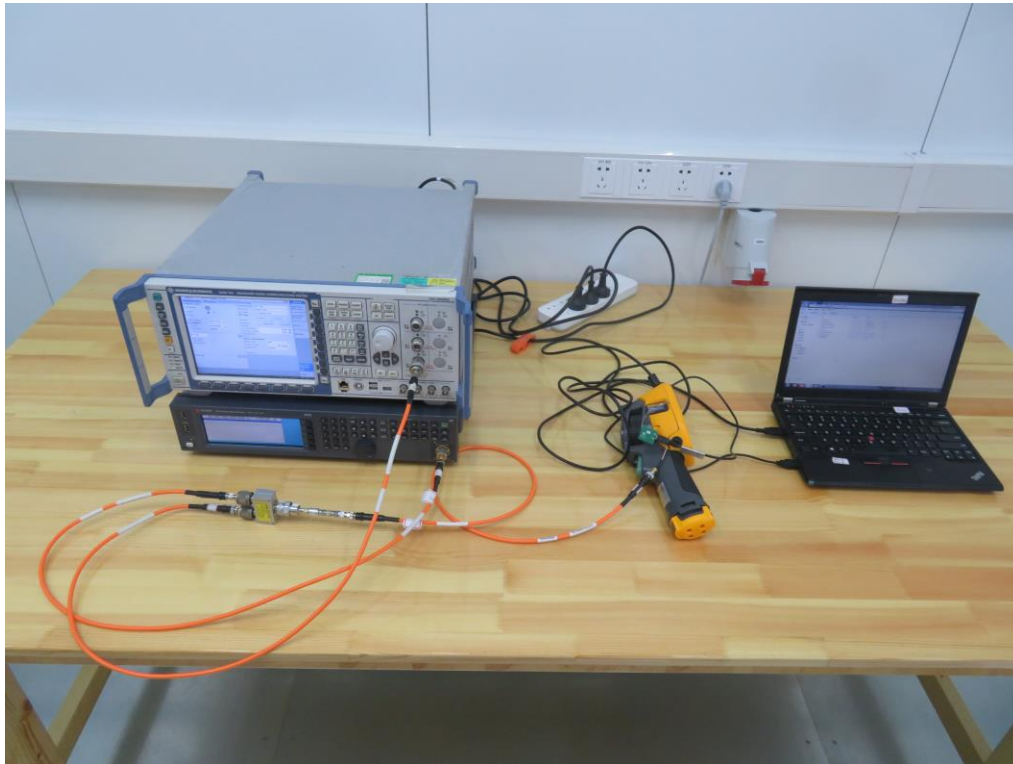
Photograph 2: Set-up for Conducted Test at Antenna Port



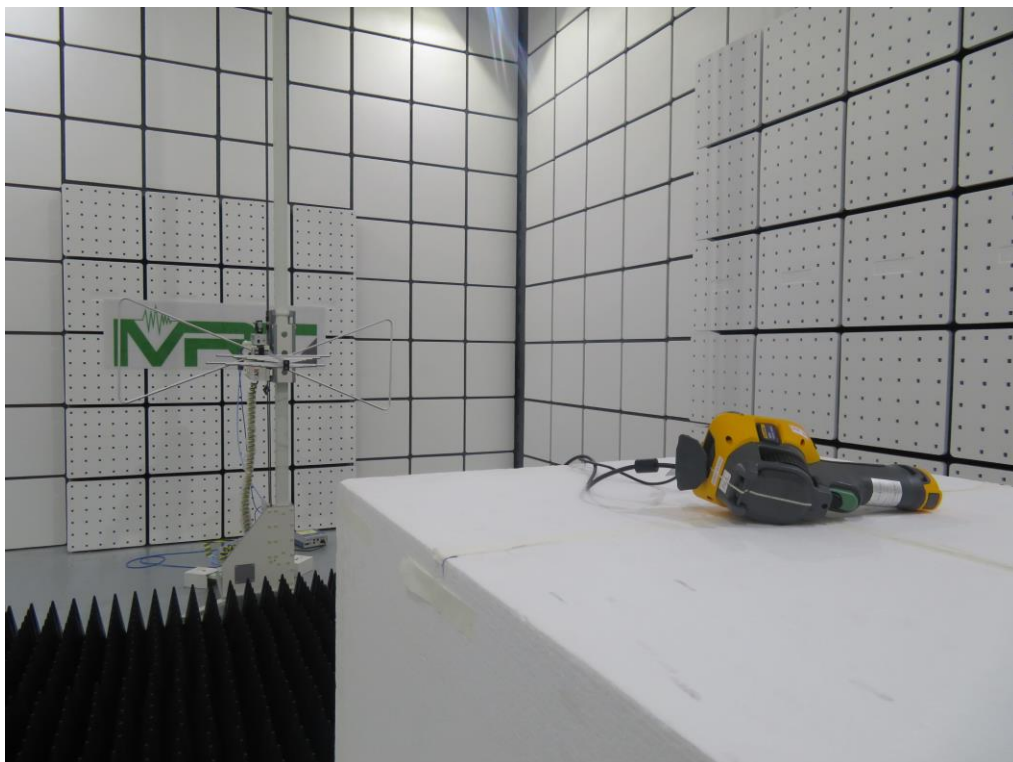
Photograph 3: Set-up for Adaptivity Test



Photograph 4: Set-up for Blocking Test



Photograph 5: Set-up for Radiated Spurious Emission, below 1GHz



Prüfbericht - Nr.: 50356282 001

Test Report No.:

Seite 50 von 52

Page 50 of 52

Photograph 6: Set-up for Radiated Spurious Emission, above 1GHz



8. List of Tables

Table 1: Applied Standard and Test Levels	5
Table 2: List of Test and Measurement Equipment	6
Table 3: Emission Measurement Uncertainty	8
Table 4: Technical Specification of EUT	9
Table 5: Independent Operation Modes	10
Table 6: Power parameter value	11
Table 7: RF output power	14
Table 8: Power spectral density	15
Table 9: Short Control Signalling Transmissions	18
Table 10: Occupied channel bandwidth	27
Table 11: Transmitter unwanted emissions in the OOB domain	32
Table 12: Transmitter unwanted emissions in the spurious domain, Configuration 1	33
Table 13: Transmitter unwanted emissions in the spurious domain, Configuration 2	Error! Bookmark not defined.
Table 14: Receiver Spurious Emissions, Configuration 1	35
Table 15: Receiver Spurious Emissions, Configuration 2	Error! Bookmark not defined.
Table 16: Receiver Blocking, TM25	37
Table 17: Receiver Blocking, TM27	38
Table 18: Receiver Blocking, TM28	38
Table 19: Receiver Blocking, TM30	39

9. List of Figures

Figure 1: Adaptivity, TM25	19
Figure 2: Adaptivity, TM27	20
Figure 3: Adaptivity, TM28	21
Figure 4: Adaptivity, TM30	22
Figure 5: Adaptivity, TM31	23
Figure 6: Adaptivity, TM33	24
Figure 7: Adaptivity, TM34	25
Figure 8: Adaptivity, TM36	26
Figure 9: Occupied Channel Bandwidth, TM1	28
Figure 10: Occupied Channel Bandwidth, TM3	28
Figure 11: Occupied Channel Bandwidth, TM4	29
Figure 12: Occupied Channel Bandwidth, TM6	29
Figure 13: Occupied Channel Bandwidth, TM7	30
Figure 14: Occupied Channel Bandwidth, TM9	30
Figure 15: Occupied Channel Bandwidth, TM10	31
Figure 16: Occupied Channel Bandwidth, TM12	31
Figure 17: Blocking Signal, 2300MHz	39
Figure 18: Blocking Signal, 2330MHz	40
Figure 19: Blocking Signal, 2360MHz	40
Figure 20: Blocking Signal, 2380MHz	41
Figure 21: Blocking Signal, 2503.5MHz	41
Figure 22: Blocking Signal, 2523.5MHz	42
Figure 23: Blocking Signal, 2553.5MHz	42
Figure 24: Blocking Signal, 2583.5MHz	43
Figure 25: Blocking Signal, 2613.5MHz	43
Figure 26: Blocking Signal, 2643.5MHz	44
Figure 27: Blocking Signal, 2673.5MHz	44

10. List of Photographs

Photograph 1: EUT Photo	47
Photograph 2: Set-up for Conducted Test at Antenna Port	48
Photograph 3: Set-up for Adaptivity Test	48
Photograph 4: Set-up for Blocking Test	49
Photograph 5: Set-up for Radiated Spurious Emission, below 1GHz.....	49
Photograph 6: Set-up for Radiated Spurious Emission, above 1GHz	50