

Report No.: SEWM2309000386RG06
 Rev.: 01
 Page: 1 of 497

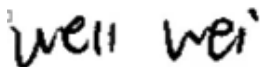
TEST REPORT

Application No.: SEWM2309000386RG
Applicant: Xiaomi Communications Co., Ltd.
Address of Applicant: #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
Manufacturer: Xiaomi Communications Co., Ltd.
Address of Manufacturer: #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
EUT Description: Mobile Phone
Model No.: 23113RKC6G
Trade Mark: POCO
FCC ID: 2AFZZRKC6G
Standards: FCC 47 CFR Part 2, Subpart J
 FCC 47 CFR Part 15, Subpart E
Date of Receipt: 2023/09/25
Date of Test: 2023/09/28 to 2023/11/02
Date of Issue: 2023/11/03

Test Result :	PASS *
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* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Authorized Signature:



Well Wei
 Wireless Laboratory Manager



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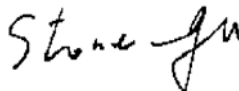
Report No.: SEWM2309000386RG06

Rev.: 01

Page: 2 of 497

1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2023/11/03		Original

Prepared By		 <hr/> (Ives Cheng) / Test Engineer
Checked By		 <hr/> (Stone Gu) / Reviewer



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2 Test Summary

Test Item	Band ^[1]	FCC rules No.	Test Requirements	Test Result	Result		
Antenna Requirement	--	15.203/15.407(a)	--	Clause 4.1	PASS		
26dB Emission Bandwidth	Band I	15.407(a)(1)	No limit.	Clause 4.5	For Report Purpose		
	Band II-A	15.407(a)(2)					
	Band II-C	15.407(a)(2)					
6dB Emission Bandwidth	Band III	15.407(e)	≥ 500 kHz.	Clause 4.6	PASS		
99% Occupied Bandwidth	Band I	KDB 789033 D02§ D	No limit.	Clause 4.7	For Report Purpose		
	Band II-A						
	Band II-C						
	Band III						
Duty Cycle	Band I Band II-A Band II-C Band III	--	No limit.	Clause 4.3	For Report Purpose		
Maximum Conducted Output Power	Band I	15.407(a)(iv)	< 250mW	Clause 4.4	PASS		
		15.407(a)(i)	<1W				
		15.407(a)(ii)	<1W				
	Band II-A	15.407(a)(2)	<MIN{250mW, 11dBm+10*lg(EBW)}				
Band II-C							
Maximum Power Spectral Density	Band I	15.407(a)(iv)	<11dBm/MHz	Clause 4.8	PASS		
		15.407(a)(i)	<17dBm/MHz				
		15.407(a)(ii)	<17dBm/MHz				
	Band II-A	15.407(a)(2)	<11dBm/MHz				
Band II-C							
Radiated Spurious Emissions	Band I	15.407(b) 15.205/15.209	F<1GHz: §15.209 limit (QP). F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.15-5.35 GHz). F≥1GHz & in-restricted: §15.209 limit (AV&PK).	Clause 4.9	PASS		
			Band II-A			15.407(b) 15.205/15.209	F<1GHz: §15.209 limit (QP). F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.25-5.35 GHz). F≥1GHz & in-restricted: §15.209 limit (AV&PK).
							Band II-C



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	Band III	15.407(b) 15.205/15.209	<p>§15.209 limit (AV&PK). F<1GHz: §15.209 limit (QP) F≥1GHz & out-restricted:(PK) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge. F≥1GHz & in-restricted: §15.209 limit (AV&PK).</p>		PASS
Restricted bands around fundamental frequency	Band I Band II-A Band II-C Band III	15.407(b) 15.205/15.209	---	Clause 4.10	PASS
AC Power Line Conducted Emissions	Band I Band II-A Band II-C Band III	15.207	---	Clause 4.2	PASS
Dynamic Frequency Selection	Band II-A Band II-C	15.407	Channel Move Time:10 Seconds	Clause 4.11	PASS
Frequency Stability	Band I Band II-A Band II-C Band III	15.407(g)	Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual	N/A	N/A
<p>Note 1: Band I: 5150-5250MHz Band II-A: 5250-5350MHz Band II-C: 5470-5725MHz Band III: 5725-5850MHz</p>					



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Contents

1	Version	2
2	Test Summary	3
3	General Information	6
3.1	Details of Client	6
3.2	Test Location	6
3.3	Test Facility	6
3.4	General Description of EUT	7
3.5	Test Environment and Mode	11
3.6	Description of Support Units	11
3.7	Worst-case configuration and mode	11
4	Test results and Measurement Data	12
4.1	Antenna Requirement	12
4.2	AC Power Line Conducted Emissions	14
4.3	Duty Cycle	18
4.4	Conducted Output Power	19
4.5	26dB Emission Bandwidth	20
4.6	6dB Emission Bandwidth	21
4.7	99% Occupied Bandwidth	22
4.8	Power Spectral Density	23
4.9	Radiated Spurious Emissions	24
4.10	Restricted bands around fundamental frequency	27
4.11	Dynamic Frequency Selection	29
4.11.1	DFS Overview	29
4.11.2	DFS Detection Thresholds	30
4.11.3	RADAR TEST WAVEFORMS	31
4.11.4	Response Requirements	33
5	Measurement Uncertainty (95% confidence levels, k=2)	34
6	Equipment List	35
7	Photographs - Setup Photos	37



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3 General Information

3.1 Details of Client

Applicant:	Xiaomi Communications Co., Ltd.
Address of Applicant:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
Manufacturer:	Xiaomi Communications Co., Ltd.
Address of Manufacturer:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

3.2 Test Location

Company:	SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Address:	South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone
Post code:	215000
Test engineer:	Ives Cheng, King-p Li

3.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• **A2LA (Certificate No. 6336.01)**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

• **Innovation, Science and Economic Development Canada**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

• **FCC –Designation Number: CN1312**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory.

Designation Number: CN1312.

Test Firm Registration Number: 717327



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3.4 General Description of EUT

EUT Description:	Mobile Phone	
Model No.:	23113RKC6G	
Trade Mark:	POCO	
Hardware Version:	13510N11	
Software Version:	Xiaomi HyperOS 1.0	
Power Supply:	Lithium Battery (3.89V)	
IMEI:	RF Conducted	IMEI1:867826060044047 IMEI2:867826060044054
	RSE & AC power line	IMEI1:867826060040961 IMEI2:867826060040979
WLAN Mode Supported:	802.11a:	20 MHz channel bandwidth
	802.11n:	20 MHz / 40 MHz channel bandwidth
	802.11ac:	20 MHz / 40 MHz / 80 MHz / 160 MHz channel bandwidth
	802.11ax:	20 MHz / 40 MHz / 80 MHz / 160 MHz channel bandwidth
	802.11be:	20 MHz / 40 MHz / 80 MHz / 160 MHz channel bandwidth
Operation Frequency:	5150MHz to 5250MHz 5250MHz to 5350MHz 5470MHz to 5725MHz 5725MHz to 5850MHz	
Modulation Type:	802.11a:	OFDM (BPSK, QPSK, 16QAM, 64QAM)
	802.11n:	OFDM (BPSK, QPSK, 16QAM, 64QAM)
	802.11ac:	OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)
	802.11ax:	OFDM/OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM)
	802.11be:	OFDM/OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM, 4096QAM)
Channel Spacing:	20MHz:	802.11a/n(HT20)/ac(VHT20)/ax(HE20)/be(EHT20)
	40MHz:	802.11n(HT40)/ac(VHT40)/ax(HE40)/be(EHT40)
	80MHz:	802.11ac(VHT80)/ax(HE80)/be(EHT80)
	160MHz:	802.11ac(VHT160)/ax(HE160)/be(EHT160)
Antenna Type:	PIFA Antenna	
Antenna Gain:	5150MHz to 5250MHz: -2dBi(Ant6); -2.2dBi(Ant17); 5250MHz to 5350MHz: -2dBi(Ant6); -1.4dBi(Ant17); 5470MHz to 5725MHz: -2dBi(Ant6); -1.1dBi(Ant17); 5725MHz to 5850MHz: -2dBi(Ant6); -2.5dBi(Ant17);	
	Note: The antenna gain are derived from the gain information report provided by the	



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	manufacturer.	
Smart System:	<input checked="" type="checkbox"/> SISO	802.11a/n/ac/ax/be
	<input checked="" type="checkbox"/> MIMO	802.11n/ac/ax/be: 2Tx & 2Rx
	<input checked="" type="checkbox"/> Diversity	802.11a: 2Tx & 2Rx
TPC Function:	<input checked="" type="checkbox"/> Support, <input type="checkbox"/> Not Support	
DFS Function:	<input type="checkbox"/> Master	
	<input type="checkbox"/> Slave with radar detection	<input checked="" type="checkbox"/> Slave without radar detection
RF Cable:	2.0dB	
Remark: As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.		

Remark: In FCC 15.31, for each band in which the device can be operated with the device operating at the number of frequencies in each band specified in the following table, and the selected channel to perform the test as below:		
Frequency range over which device operates	Number of Measurement Frequencies Required	Location of Measurement Frequency in Band of Operation
1 MHz or less	1	centre
1 MHz to 10 MHz	2	1 near high end, 1 near low end
Greater than 10 MHz	3	1 near high end, 1 near centre

For UNII Band I:		
Mode	Channel	Frequency(MHz)
IEEE 802.11a/n/ac/ax/be 20MHz	The Lowest channel	5180
	The Middle channel	5200
	The Highest channel	5240
IEEE 802.11n/ac/ax/be 40MHz	The Lowest channel	5190
	The Highest channel	5230
IEEE 802.11ac/ax/be 80MHz	The Middle channel	5210



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For UNII Band II-A:		
Mode	Channel	Frequency(MHz)
IEEE 802.11a/n/ac/ax/be 20MHz	The Lowest channel	5260
	The Middle channel	5280
	The Highest channel	5320
IEEE 802.11n/ac/ax/be 40MHz	The Lowest channel	5270
	The Highest channel	5310
IEEE 802.11ac/ax/be 80MHz	The Middle channel	5290
IEEE 802.11ax/be 160MHz	The Middle channel	5250

For UNII Band II-C:		
Mode	Channel	Frequency(MHz)
IEEE 802.11a/n/ac/ax/be 20MHz	The Lowest channel	5500
	The Middle channel	5580
	The Highest channel	5700
IEEE 802.11n/ac/ax/be 40MHz	The Lowest channel	5510
	The Middle channel	5550
	The Highest channel	5670
IEEE 802.11ac/ax/be 80MHz	The Middle channel	5530
IEEE 802.11ax/be 160MHz	The Middle channel	5570

For UNII Band III:		
Mode	Channel	Frequency(MHz)
IEEE 802.11a/n/ac/ax/be 20MHz	The Lowest channel	5745
	The Middle channel	5785
	The Highest channel	5825
IEEE 802.11n/ac/ax/be 40MHz	The Lowest channel	5755
	The Highest channel	5795
IEEE 802.11ac/ax/be 80MHz	The Middle channel	5775



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Frequency Band	Channel	Freq.(MHz)	Channel	Freq.(MHz)
Straddle Channel	144 ^[1]	5720	142 ^[2]	5710
	138 ^[3]	5690		
TDWR Channel	120 ^[1]	5600	124 ^[1]	5620
	128 ^[1]	5640	118 ^[2]	5590
	126 ^[2]	5630	122 ^[3]	5610
	114 ^[4]	5570		

Note:

1. The above Frequency and Channel were 802.11a, 802.11n HT20, 802.11ac VHT20, 802.11ax HE20 and 802.11be EHT20.
2. The above Frequency and Channel were 802.11n HT40, 802.11ac VHT40, 802.11ax HE40 and 802.11be EHT40.
3. The above Frequency and Channel were 802.11ac VHT80, 802.11ax HE80 and 802.11be EHT80.
4. The above Frequency and Channel were 802.11ac VHT160, 802.11ax HE160 and 802.11be EHT160.

Remark:

1. 802.11ax/be support OFDMA full RU tone and partial RU tone, both full RU and partial RU-left (for low CH) and partial RU-right (for high CH) test output power, the full RU power > partial RU, therefore the full RU perform full test to cover partial RU except for PSD/ Duty cycle/BE.
2. 802.11be support small size RU, Large size RU and Puncturing modes, which is less than full RU conducted power, therefore have assessed only PSD/Duty cycle/BE.



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3.5 Test Environment and Mode

Environment Parameter	101.0 kPa Selected Values During Tests	
Relative Humidity	44-46 % RH Ambient	
Value	Temperature(°C)	Voltage(V)
NTNV	22~23	3.89
Remark: NV: Normal Voltage NT: Normal Temperature		

3.6 Description of Support Units

Test Equipment	Manufacturer	Model No.	Inventory No.
Router	TP-LINK	Archer BE800 (FCC ID:2AXJ4BE800)	SUWI-03-14-03

3.7 Worst-case configuration and mode

Low data rate was used to test on antenna port conducted tests and radiated spurious emissions since it has the highest maximum power. Following are the worst-case data rates set for test:

Modulation Type	SISO - Data Rate	CDD/MIMO - Data Rate
802.11a	6 Mbps	12 Mbps
802.11n (HT 20)	MCS0	MCS0
802.11n (HT 40)	MCS0	MCS0
802.11ac (VHT 20)	MCS0	MCS0
802.11ac (VHT 40)	MCS0	MCS0
802.11ac (VHT 80)	MCS0	MCS0
802.11ac (VHT 160)	MCS0	MCS0
802.11ax (HE 20)	MCS0	MCS0
802.11ax (HE 40)	MCS0	MCS0
802.11ax (HE 80)	MCS0	MCS0
802.11ax (HE 160)	MCS0	MCS0
802.11be (EHT 20)	MCS0	MCS0
802.11be (EHT 40)	MCS0	MCS0
802.11be (EHT 80)	MCS0	MCS0
802.11be (EHT 160)	MCS0	MCS0



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4 Test results and Measurement Data

4.1 Antenna Requirement

Standard requirement:	47 CFR Part 15 Section 15.203
<p>The antenna is PIFA Antenna and no consideration of replacement. The best case gain of the antenna is 5150MHz to 5250MHz: -2dBi(Ant6); -2.2dBi(Ant17);* 5250MHz to 5350MHz: -2dBi(Ant6); -1.4dBi(Ant17);* 5470MHz to 5725MHz: -2dBi(Ant6); -1.1dBi(Ant17);* 5725MHz to 5850MHz: -2dBi(Ant6); -2.5dBi(Ant17);*</p> <p><i>*Note:</i> <i>The antenna gain are derived from the gain information report provided by the manufacturer.</i></p> <p><i>Remark:</i> <i>As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.</i></p>	



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Cyclic Delay Diversity (CDD) System:

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

If all antennas have the same gain, G_{ANT} , Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows.

- For power spectral density (PSD) measurements on all devices,
 $Array\ Gain = 10 \log(N_{ANT}/N_{SS}=1) \text{ dB}$.
- For power measurements on IEEE 802.11 devices:
 $Array\ Gain = 0 \text{ dB}$ (i.e., no array gain) for $N_{ANT} \leq 4$;

For power, the directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the highest gain.

For PSD, the directional gain calculation is following F)2)f)ii) of KDB 662911 D01 v02r01.

The Power and PSD limit should be modified if the directional gain of eut is over 6dbi.

The EUT supports CDD System.

Unequal antenna gain:

Operation Frequency	ANT Gain6 (dBi)	ANT Gain17 (dBi)	Directional gain For Power (dBi)	Directional gain For PSD (dBi)	Power Limit Reduction (dBm)	PSD Limit Reduction (dBm)
5150MHz to 5250MHz	-2	-2.2	-2	0.91	0	0
5250MHz to 5350MHz	-2	-1.4	-1.4	1.32	0	0
5470MHz to 5725MHz	-2	-1.1	-1.1	1.47	0	0
5725MHz to 5850MHz	-2	-2.5	-2	0.76	0	0

5150MHz to 5250MHz:

Power Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi) =0

PSD Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi) =0

5250MHz to 5350MHz:

Power Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi) =0

PSD Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi) =0

5470MHz to 5725MHz:

Power Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi) =0

PSD Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi) =0

5725MHz to 5850MHz:

Power Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi) =0

PSD Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi) =0



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4.2 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15 Section 15.207		
Test Method:	ANSI C63.10-2020 Section 6.2		
Test Frequency Range:	150kHz to 30MHz		
Receiver Setup:	RBW = 9kHz, VBW = 30kHz		
Limit:	Frequency range (MHz)	Limit (dBuV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
* Decreases with the logarithm of the frequency.			
Test Procedure:	<ol style="list-style-type: none"> 1) The mains terminal disturbance voltage test was conducted in a shielded room. 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded. 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10-2020 on conducted measurement. 		



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<p>Test Setup:</p>	
<p>Exploratory Test Mode:</p>	<p>Transmitting with all kind of modulations, data rates at lowest, middle and highest channel. Charge + Transmitting mode.</p>
<p>Final Test Mode:</p>	<p>Refer to section 3.7 for details. Only the worst case is recorded in the report.</p>
<p>Instruments Used:</p>	<p>Refer to section 6 for details.</p>
<p>Test Results:</p>	<p>Pass</p>



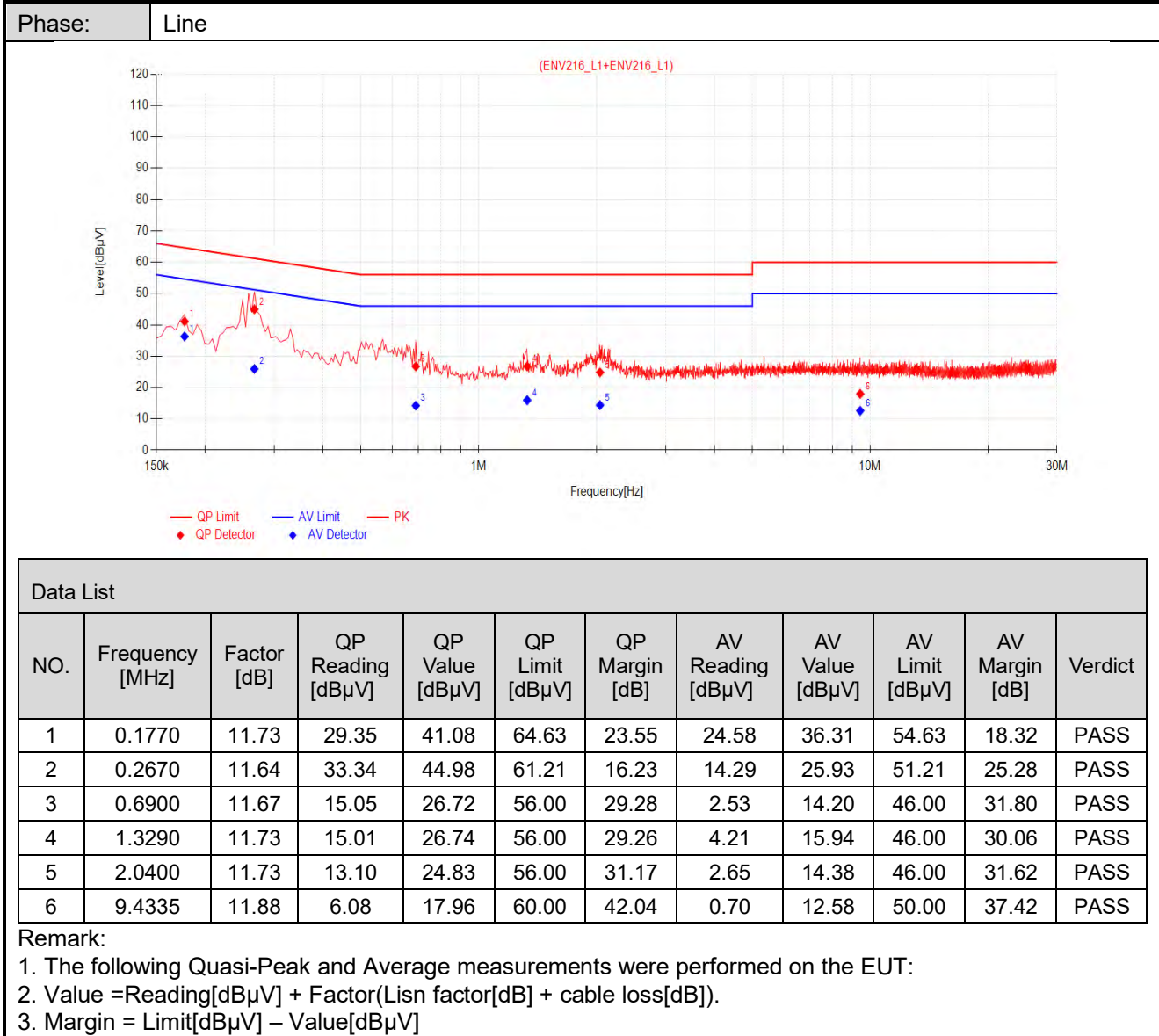
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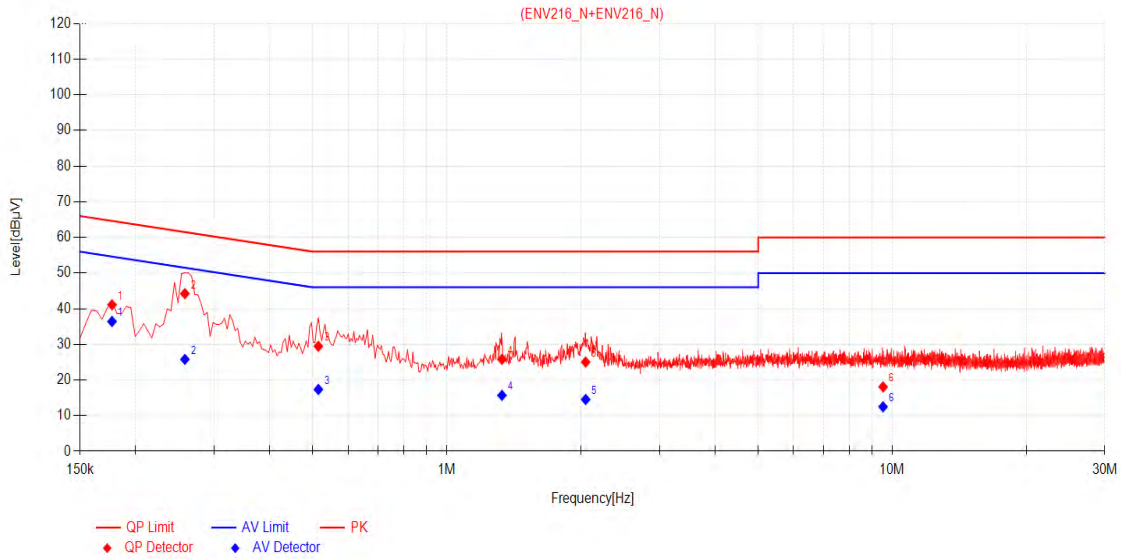
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Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.



Phase: Neutral



Data List

NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1770	11.73	29.36	41.09	64.63	23.54	24.68	36.41	54.63	18.22	PASS
2	0.2580	11.63	32.59	44.22	61.50	17.28	14.15	25.78	51.50	25.72	PASS
3	0.5145	11.61	17.85	29.46	56.00	26.54	5.73	17.34	46.00	28.66	PASS
4	1.3290	11.73	14.06	25.79	56.00	30.21	3.97	15.70	46.00	30.30	PASS
5	2.0490	11.73	13.30	25.03	56.00	30.97	2.81	14.54	46.00	31.46	PASS
6	9.5370	11.88	6.18	18.06	60.00	41.94	0.61	12.49	50.00	37.51	PASS

Remark:

- The following Quasi-Peak and Average measurements were performed on the EUT:
- Value = Reading[dBµV] + Factor(Lin factor[dB] + cable loss[dB]).
- Margin = Limit[dBµV] – Value[dBµV]



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4.3 Duty Cycle

Test Requirement:	ANSI C63.10-2020 Section 12.2
Test Method:	ANSI C63.10-2020 Section 12.2
Test Setup:	
Instruments Used:	Refer to section 6 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	No restriction limits
Test Results:	For report purpose
The detailed test data see: Appendix	



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4.4 Conducted Output Power

Test Requirement:	47 CFR Part 15 Section 15.407(a)	
Test Method:	ANSI C63.10-2020 Section 12.4.3.2	
Test Setup:	<p>* Test with power meter (Detector function: Average) Method PM-G is measurement using a gated RF average power meter. Measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Because the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.</p>	
Test Instruments:	Refer to section 6 for details.	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates	
Final Test Mode:	Refer to section 3.7 for details.	
Limit:	Frequency Band	Limit
	5150-5250MHz	Not exceed 250mW(23.98dBm)
	5250-5350MHz	The lesser of 250mW(23.98dBm) or 11+ 10logB
	5470-5725MHz	The lesser of 250mW(23.98dBm) or 11+ 10logB
	5725-5850MHz	Not exceed 1W(30dBm)
	*Where B is the 26dB emission bandwidth in MHz	
Test Results:	Pass	
The detailed test data see: Appendix		



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4.5 26dB Emission Bandwidth

Test Requirement:	47 CFR Part 15 Section 15.407(a), KDB 789033 D02& C
Test Method:	ANSI C63.10-2020 Section 12.5.2
Test Setup:	
Instruments Used:	Refer to section 6 for details.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	No restriction limits
Test Results:	For Report Purpose
The detailed test data see: Appendix	



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4.6 6dB Emission Bandwidth

Test Requirement:	47 CFR Part 15 Section 15.407(e)	
Test Method:	ANSI C63.10-2020 Section 12.5.1	
Test Setup:		
Test Instruments:	Refer to section 6 for details.	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates	
Final Test Mode:	Refer to section 3.7 for details.	
Limit:	Frequency Band	Limit
	5725-5850MHz	At least 500kHz
Test Results:	Pass	
The detailed test data see: Appendix		



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4.7 99% Occupied Bandwidth

Test Requirement:	KDB 789033 D02§ D
Test Method:	ANSI C63.10-2020 Section 12.5.3
Test Setup:	
Instruments Used:	Refer to section 6 for details.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	No restriction limits
Test Results:	For Report Purpose
The detailed test data see: Appendix	



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4.8 Power Spectral Density

Test Requirement:	47 CFR Part 15 Section 15.407(a)	
Test Method:	ANSI C63.10-2020 Section 12.6 KDB 789033 D02 v02r01, Section F.	
Test Setup:		
Instruments Used:	Refer to section 6 for details.	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates	
Final Test Mode:	Refer to section 3.7 for details.	
Limit:	Frequency Band	Limit
	5150-5250MHz	The power spectral density less than 11dBm/1MHz
	5250-5350MHz	The power spectral density less than 11dBm/1MHz
	5470-5725MHz	The power spectral density less than 11dBm/1MHz
	5725-5850MHz	The power spectral density less than <30dBm/500KHz
Test Results:	Pass	
The detailed test data see: Appendix		



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4.9 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15 Section 15.205/15.209/15.407(b)
Test Method:	ANSI C63.10-2020 Section 6.4 / 6.5 / 6.6
Test Site:	Measurement Distance: 3m or 10m (Semi-Anechoic Chamber)
Test frequency:	9kHz ~ 40GHz(or 10 Harmonic)

Test Setup:

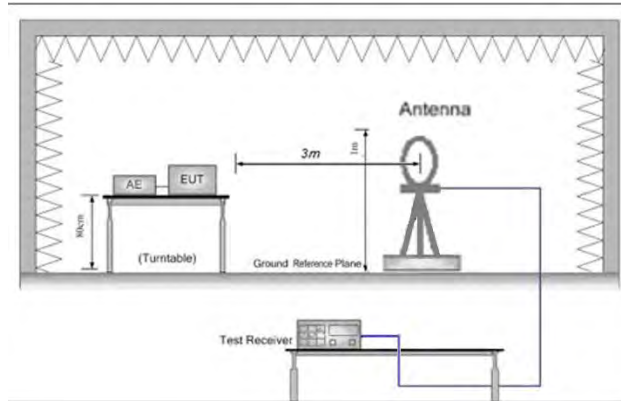


Figure 1. 9kHz to 30MHz

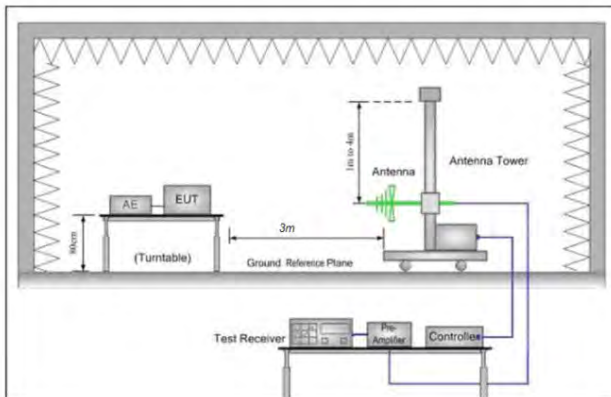


Figure 1. 30MHz to 1GHz

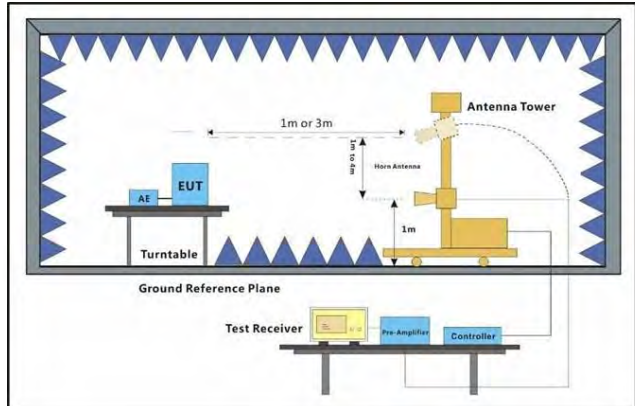


Figure 2. Above 1 GHz

Test Procedure:

- For below 1GHz test, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- For above 1GHz test, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. (Distance from antenna to EUT is 1m for measurements >18GHz).
- The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.



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	<p>e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</p> <p>f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>g. Test the EUT in the outermost channels.</p> <p>h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case.</p> <p>i. Repeat above procedures until all frequencies measured was complete.</p> <p>j. The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported</p> <p>k. The disturbance above 18GHz was very low, and the harmonics were the highest point could be found when testing, so only the harmonics had been displayed.</p> <p>l. At a measurement distance of 1 meter the limit line was increased by $20 \cdot \text{LOG}(3/1) = 9.54 \text{ dB}$.</p>
<p>Test Configuration:</p>	<p>Measurements below 30MHz</p> <ul style="list-style-type: none"> • RBW = 10 kHz • VBW = 30 kHz • Detector = Peak & Average & Quasi-peak • Trace mode = max hold <p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"> • RBW = 120 kHz • VBW = 300 kHz • Detector = Quasi-peak • Trace mode = max hold <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW $\geq 3 \text{ MHz}$ • Detector = Peak • Sweep time = auto • Trace mode = max hold <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW = 10Hz, when duty cycle is no less than 98 percent. • VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
<p>Exploratory Test Mode:</p>	<p>Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.</p>
<p>Final Test Mode:</p>	<p>Refer to section 3.7 for details. For below 1GHz part, through pre-scan all channels, but only the worst case is recorded in the report.</p>
<p>Instruments Used:</p>	<p>Refer to section 6 for details.</p>



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Report No.: SEWM2309000386RG06

Rev.: 01

Page: 26 of 497

Test Results:	Pass
The detailed test data see: Appendix	



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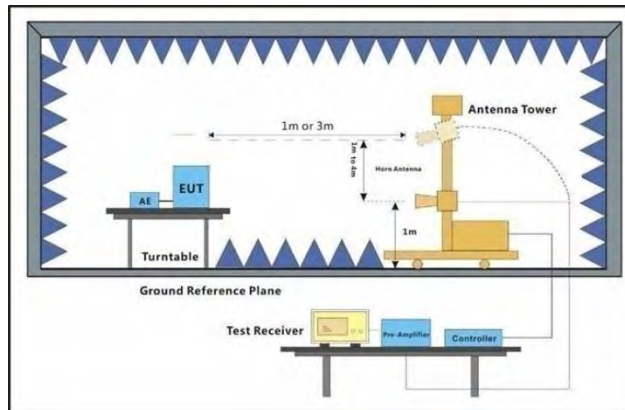
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4.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15 Section 15.205/15.209/15.407(b)		
Test Method:	ANSI C63.10-2020 Section 12.7		
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)		
Limit:	Frequency	Limit (dBuV/m)	Remark
	30MHz-88MHz	40.0	Quasi-peak
	88MHz-216MHz	43.5	Quasi-peak
	216MHz-960MHz	46.0	Quasi-peak
	960MHz-1GHz	54.0	Quasi-peak
	Above 1GHz	74.0	Peak Value

Test Setup:



Test Procedure:

- The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel.
- Test the EUT in the outermost channels.
- The radiation measurements are performed in X, Y, Z axis positioning for



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	Transmitting mode, And found the X axis positioning which it is worse case. i. Repeat above procedures until all frequencies measured was complete.
Test Configuration:	<p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"> • RBW = 120 kHz • VBW = 300 kHz • Detector = Quasi-peak • Trace mode = max hold <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW ≥ 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW = 10Hz, when duty cycle is no less than 98 percent. • VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.
Final Test Mode:	Refer to section 3.7 for details.
Instruments Used:	Refer to section 6 for details.
Test Results:	Pass
The detailed test data see: Appendix	



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4.11 Dynamic Frequency Selection

4.11.1 DFS Overview

Table 1: Applicability of DFS Requirements Prior to Use of a Channel

Requirement	Operational Mode		
	Master	Client Without Radar Detection	Client With Radar Detection
<i>Non-Occupancy Period</i>	Yes	Not required	Yes
<i>DFS Detection Threshold</i>	Yes	Not required	Yes
<i>Channel Availability Check Time</i>	Yes	Not required	Not required
<i>U-NII Detection Bandwidth</i>	Yes	Not required	Yes

Table 2: Applicability of DFS requirements during normal operation

Requirement	Operational Mode	
	Master Device or Client with Radar Detection	Client Without Radar Detection
<i>DFS Detection Threshold</i>	Yes	Not required
<i>Channel Closing Transmission Time</i>	Yes	Yes
<i>Channel Move Time</i>	Yes	Yes
<i>U-NII Detection Bandwidth</i>	Yes	Not required
Additional requirements for devices with multiple bandwidth modes	Master Device or Client with Radar Detection	Client Without Radar Detection
<i>U-NII Detection Bandwidth and Statistical Performance Check</i>	All BW modes must be tested	Not required
<i>Channel Move Time and Channel Closing Transmission Time</i>	Test using widest BW mode available	Test using the widest BW mode available for the link
<i>All other tests</i>	Any single BW mode	Not required
<p>Note: Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.</p>		



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4.11.2 DFS Detection Thresholds

Table 3: DFS Detection Thresholds for Master Devices and Client Devices with Radar Detection

Maximum Transmit Power	Value (See Notes 1, 2, and 3)
EIRP \geq 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64 dBm

Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.
Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.
Note 3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.



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4.11.3 RADAR TEST WAVEFORMS

Table 5 – Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Number of Trials
0	1	1428	18	See Note 1	See Note 1
1	1	Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a	Roundup $\left\{ \begin{matrix} \left(\frac{1}{360} \right) \cdot \\ \left(\frac{19 \cdot 10^6}{PRI_{\mu sec}} \right) \end{matrix} \right\}$	60%	30
		Test B: 15 unique PRI values randomly selected within the range of 518-3066 μsec, with a minimum increment of 1 μsec, excluding PRI values selected in Test A			
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Radar Types 1-4)				80%	120
Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.					



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Table 5a - Pulse Repetition Intervals Values for Test A

Pulse Repetition Frequency Number	Pulse Repetition Frequency (Pulses Per Second)	Pulse Repetition Interval (Microseconds)
1	1930.5	518
2	1858.7	538
3	1792.1	558
4	1730.1	578
5	1672.2	598
6	1618.1	618
7	1567.4	638
8	1519.8	658
9	1474.9	678
10	1432.7	698
11	1392.8	718
12	1355	738
13	1319.3	758
14	1285.3	778
15	1253.1	798
16	1222.5	818
17	1193.3	838
18	1165.6	858
19	1139	878
20	1113.6	898
21	1089.3	918
22	1066.1	938
23	326.2	3066

The aggregate is the average of the percentage of successful detections of Short Pulse Radar Types 1-4. For example, the following table indicates how to compute the aggregate of percentage of successful detections.

Radar Type	Number of Trials	Number of Successful Detections	Minimum Percentage of Successful Detection
1	35	29	82.9%
2	30	18	60%
3	30	27	90%
4	50	44	88%
Aggregate $(82.9\% + 60\% + 90\% + 88\%) / 4 = 80.2\%$			



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Table 6 – Long Pulse Radar Test Waveform

Radar Type	Pulse Width (μsec)	Chirp Width (MHz)	PRI (μsec)	Number of Pulses per Burst	Number of Bursts	Minimum Percentage of Successful Detection	Minimum Number of Trials
5	50-100	5-20	1000-2000	1-3	8-20	80%	30

Table 7 – Frequency Hopping Radar Test Waveform

Radar Type	Pulse Width (μsec)	PRI (μsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Minimum Percentage of Successful Detection	Minimum Number of Trials
6	1	333	9	0.333	300	70%	30

4.11.4 Response Requirements

Table 4: DFS Response Requirement Values

Parameter	Value
<i>Non-occupancy period</i>	Minimum 30 minutes
<i>Channel Availability Check Time</i>	60 seconds
<i>Channel Move Time</i>	10 seconds See Note 1.
<i>Channel Closing Transmission Time</i>	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
<i>U-NII Detection Bandwidth</i>	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.

Note 1: *Channel Move Time* and the *Channel Closing Transmission Time* should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

Note 2: The *Channel Closing Transmission Time* is comprised of 200 milliseconds starting at the beginning of the *Channel Move Time* plus any additional intermittent control signals required to facilitate a *Channel move* (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the *U-NII Detection Bandwidth* detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

The detailed test data see: **Appendix**



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5 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	±0.54dB
2	RF power density, conducted	±1.03dB
3	Spurious emissions, conducted	±0.54dB
4	Radio Frequency	±1.0 %
5	Duty Cycle	±0.37%
6	Occupied Bandwidth	±1.0 %
7	Conduction Emission	± 2.90dB (150kHz to 30MHz)
8	Radiated Emission	± 3.13dB (9k -30MHz)
		± 4.8dB (30M -1GHz)
		± 4.8dB (1GHz to 18GHz)
		± 4.80dB (Above 18GHz)

Remark:

The U_{lab} (lab Uncertainty) is less than $U_{CISPR/ETSI}$ (CISPR/ETSI Uncertainty), so the test results
 – compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
 – non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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6 Equipment List

RF Test Equipment					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)
Shielding Room	Brilliant-emc	N/A	SUWI-04-01-06	2021/05/08	2024/05/07
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2023/02/06	2024/02/05
Signal Analyzer	ROHDE&SCHWARZ	FSV3030	SUWI-01-02-02	2023/05/11	2024/05/10
Measurement Software	Tonscend	JS1120-3 Test System V 3.3.20	SUWI-02-09-09	NCR	NCR
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2023/05/11	2024/05/10
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-01	2023/02/06	2024/02/05
Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW500	SUWI-01-16-05	2023/02/06	2024/02/05
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2023/02/06	2024/02/05
Power meter	Anritsu	ML2495A	SUWI-01-31-01	2022/11/23	2023/11/22
Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	2022/11/23	2023/11/22
MXG Vector signal genitor	KEYSIGHT	N5182B	SUWI-01-38-01	2023/02/06	2024/02/05
Signal Generator	ROHDE&SCHWARZ	SMM100A	SN: 101716	2023/02/22	2024/02/21

CE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date (yyyy/mm/dd)	Cal Due Date (yyyy/mm/dd)
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2023/02/07	2024/02/06
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2023/02/08	2024/02/07
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-03	2023/02/08	2024/02/07
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-04	2023/02/08	2024/02/07
Measurement Software	Tonscend	JS32-CE V4.0.0.2	SUWI-02-09-05	NCR	NCR



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Report No.: SEWM2309000386RG06

Rev.: 01

Page: 36 of 497

RSE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date (yyyy/mm/dd)	Cal Due Date (yyyy/mm/dd)
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	2021/05/08	2024/05/07
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2023/02/07	2024/02/06
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2023/05/11	2024/05/10
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-05	2022/11/23	2023/11/22
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2023/02/08	2024/02/07
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9163	SUWI-01-11-01	2023/05/13	2024/05/12
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2023/05/13	2024/05/12
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2023/05/12	2024/05/11
Active Loop Antenna	SCHWRZBECK MESS-ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2023/05/13	2024/05/12
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2023/02/06	2024/02/05
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2023/02/06	2024/02/05
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2023/02/08	2024/02/07
Measurement Software	Tonscend	JS32-RE 4.0.0.0	SUWI-02-09-04	NCR	NCR



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Report No.: SEWM2309000386RG06

Rev.: 01

Page: 37 of 497

7 Photographs - Setup Photos

Refer to Appendix A.2 WLAN Setup Photos.



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Report No.: SEWM2309000386RG06

Rev.: 01

Page: 38 of 497

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**Emission Bandwidth
Test Result**

TestMode	Antenna	Frequency[MHz]	26dB EBW [MHz]	FL[MHz]	FH[MHz]	Verdict
11a-CDD	Ant6	5180	23.72	5168.28	5192.00	For Report Purpose
11a-CDD	Ant17	5180	23.36	5168.08	5191.44	
11a-CDD	Ant6	5220	22.32	5208.92	5231.24	
11a-CDD	Ant17	5220	22.64	5208.72	5231.36	
11a-CDD	Ant6	5240	23.24	5228.24	5251.48	
11a-CDD	Ant17	5240	22.92	5228.48	5251.40	
11a-CDD	Ant6	5260	23.76	5248.12	5271.88	
11a-CDD	Ant17	5260	23.16	5248.52	5271.68	
11a-CDD	Ant6	5300	25.40	5285.96	5311.36	
11a-CDD	Ant17	5300	22.84	5288.56	5311.40	
11a-CDD	Ant6	5320	22.80	5308.56	5331.36	
11a-CDD	Ant17	5320	23.24	5308.64	5331.88	
11a-CDD	Ant6	5500	23.48	5488.32	5511.80	
11a-CDD	Ant17	5500	22.80	5488.56	5511.36	
11a-CDD	Ant6	5580	23.96	5567.96	5591.92	
11a-CDD	Ant17	5580	23.00	5568.44	5591.44	
11a-CDD	Ant6	5700	23.72	5688.00	5711.72	
11a-CDD	Ant17	5700	22.56	5688.84	5711.40	
11a-CDD	Ant6	5720	23.32	5708.16	5731.48	
11a-CDD	Ant17	5720	22.88	5708.68	5731.56	
11a-CDD	Ant6	5720 UNII-2C	16.84	5708.16	5725	
11a-CDD	Ant17	5720 UNII-2C	16.32	5708.68	5725	
11a-CDD	Ant6	5720 UNII-3	6.48	5725	5731.48	
11a-CDD	Ant17	5720 UNII-3	6.56	5725	5731.56	
11a-CDD	Ant6	5745	23.56	5733.28	5756.84	
11a-CDD	Ant17	5745	23.24	5733.68	5756.92	
11a-CDD	Ant6	5785	23.76	5773.12	5796.88	
11a-CDD	Ant17	5785	23.36	5773.48	5796.84	
11a-CDD	Ant6	5825	23.24	5813.24	5836.48	
11a-CDD	Ant17	5825	23.48	5813.52	5837.00	
11be20MIMO	Ant6	5180	22.84	5168.68	5191.52	
11be20MIMO	Ant17	5180	23.20	5168.48	5191.68	
11be20MIMO	Ant6	5220	23.12	5208.52	5231.64	
11be20MIMO	Ant17	5220	22.60	5208.84	5231.44	
11be20MIMO	Ant6	5240	23.36	5228.48	5251.84	
11be20MIMO	Ant17	5240	22.96	5228.56	5251.52	
11be20MIMO	Ant6	5260	23.84	5247.92	5271.76	
11be20MIMO	Ant17	5260	22.76	5248.68	5271.44	
11be20MIMO	Ant6	5300	23.08	5288.52	5311.60	
11be20MIMO	Ant17	5300	23.40	5288.28	5311.68	
11be20MIMO	Ant6	5320	23.44	5308.16	5331.60	
11be20MIMO	Ant17	5320	22.92	5308.40	5331.32	
11be20MIMO	Ant6	5500	22.64	5488.56	5511.20	
11be20MIMO	Ant17	5500	23.40	5488.20	5511.60	
11be20MIMO	Ant6	5580	23.72	5568.16	5591.88	
11be20MIMO	Ant17	5580	23.96	5567.44	5591.40	
11be20MIMO	Ant6	5700	23.32	5688.40	5711.72	
11be20MIMO	Ant17	5700	23.56	5688.32	5711.88	
11be20MIMO	Ant6	5720	23.32	5708.32	5731.64	
11be20MIMO	Ant17	5720	22.96	5708.32	5731.28	



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11be20MIMO	Ant6	5720 UNII-2C	16.68	5708.32	5725
11be20MIMO	Ant17	5720 UNII-2C	16.68	5708.32	5725
11be20MIMO	Ant6	5720 UNII-3	6.64	5725	5731.64
11be20MIMO	Ant17	5720 UNII-3	6.28	5725	5731.28
11be20MIMO	Ant6	5745	23.12	5733.48	5756.60
11be20MIMO	Ant17	5745	23.24	5733.60	5756.84
11be20MIMO	Ant6	5785	23.56	5773.52	5797.08
11be20MIMO	Ant17	5785	23.52	5773.52	5797.04
11be20MIMO	Ant6	5825	22.88	5813.64	5836.52
11be20MIMO	Ant17	5825	22.64	5813.72	5836.36
11be40MIMO	Ant6	5190	44.00	5168.40	5212.40
11be40MIMO	Ant17	5190	43.04	5168.88	5211.92
11be40MIMO	Ant6	5230	43.60	5208.32	5251.92
11be40MIMO	Ant17	5230	42.88	5208.32	5251.20
11be40MIMO	Ant6	5270	43.60	5248.40	5292.00
11be40MIMO	Ant17	5270	43.36	5248.48	5291.84
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11be40MIMO	Ant17	5310	43.20	5288.40	5331.60
11be40MIMO	Ant6	5510	43.84	5488.40	5532.24
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11be40MIMO	Ant6	5550	43.92	5527.84	5571.76
11be40MIMO	Ant17	5550	43.76	5528.00	5571.76
11be40MIMO	Ant6	5670	43.76	5648.40	5692.16
11be40MIMO	Ant17	5670	43.68	5648.24	5691.92
11be40MIMO	Ant6	5710	44.32	5687.92	5732.24
11be40MIMO	Ant17	5710	42.96	5688.56	5731.52
11be40MIMO	Ant6	5710 UNII-2C	37.08	5687.92	5725
11be40MIMO	Ant17	5710 UNII-2C	36.44	5688.56	5725
11be40MIMO	Ant6	5710 UNII-3	7.24	5725	5732.24
11be40MIMO	Ant17	5710 UNII-3	6.52	5725	5731.52
11be40MIMO	Ant6	5755	44.72	5732.68	5777.40
11be40MIMO	Ant17	5755	43.68	5733.08	5776.76
11be40MIMO	Ant6	5795	44.40	5772.12	5816.52
11be40MIMO	Ant17	5795	43.84	5773.08	5816.92
11be80MIMO	Ant6	5210	88.48	5165.84	5254.32
11be80MIMO	Ant17	5210	88.64	5165.52	5254.16
11be80MIMO	Ant6	5290	88.80	5245.36	5334.16
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11be80MIMO	Ant17	5530	88.64	5485.36	5574.00
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11be80MIMO	Ant17	5690 UNII-2C	79.48	5645.52	5725
11be80MIMO	Ant6	5690 UNII-3	9.96	5725	5734.96
11be80MIMO	Ant17	5690 UNII-3	9.64	5725	5734.64
11be80MIMO	Ant6	5775	89.44	5730.20	5819.64
11be80MIMO	Ant17	5775	88.16	5730.36	5818.52
11be160MIMO	Ant6	5250	175.68	5163.28	5338.96
11be160MIMO	Ant17	5250	170.88	5164.88	5335.76
11be160MIMO	Ant6	5250 UNII-1	86.72	5163.28	5250
11be160MIMO	Ant17	5250 UNII-1	85.12	5164.88	5250
11be160MIMO	Ant6	5250 UNII-2A	88.96	5250	5338.96
11be160MIMO	Ant17	5250 UNII-2A	85.76	5250	5335.76
11be160MIMO	Ant6	5570	177.28	5482.32	5659.60



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Report No.: SEWM2309000386RG06

Rev.: 01

Page: 41 of 497

11be160MIMO	Ant17	5570	172.16	5483.92	5656.08	
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Remark:

For 802.11n HT20/ ac VHT20/ ax HE20/ be EHT20, 802.11n HT40/ ac VHT40/ ax HE40/ be EHT40, 802.11 ac VHT80/ ax HE80/ be EHT80, 802.11 ac VHT160/ ax HE160/ be EHT160 mode, the whole testing have assessed only, 802.11be EHT20/40/80/160 by referring to their higher output power.

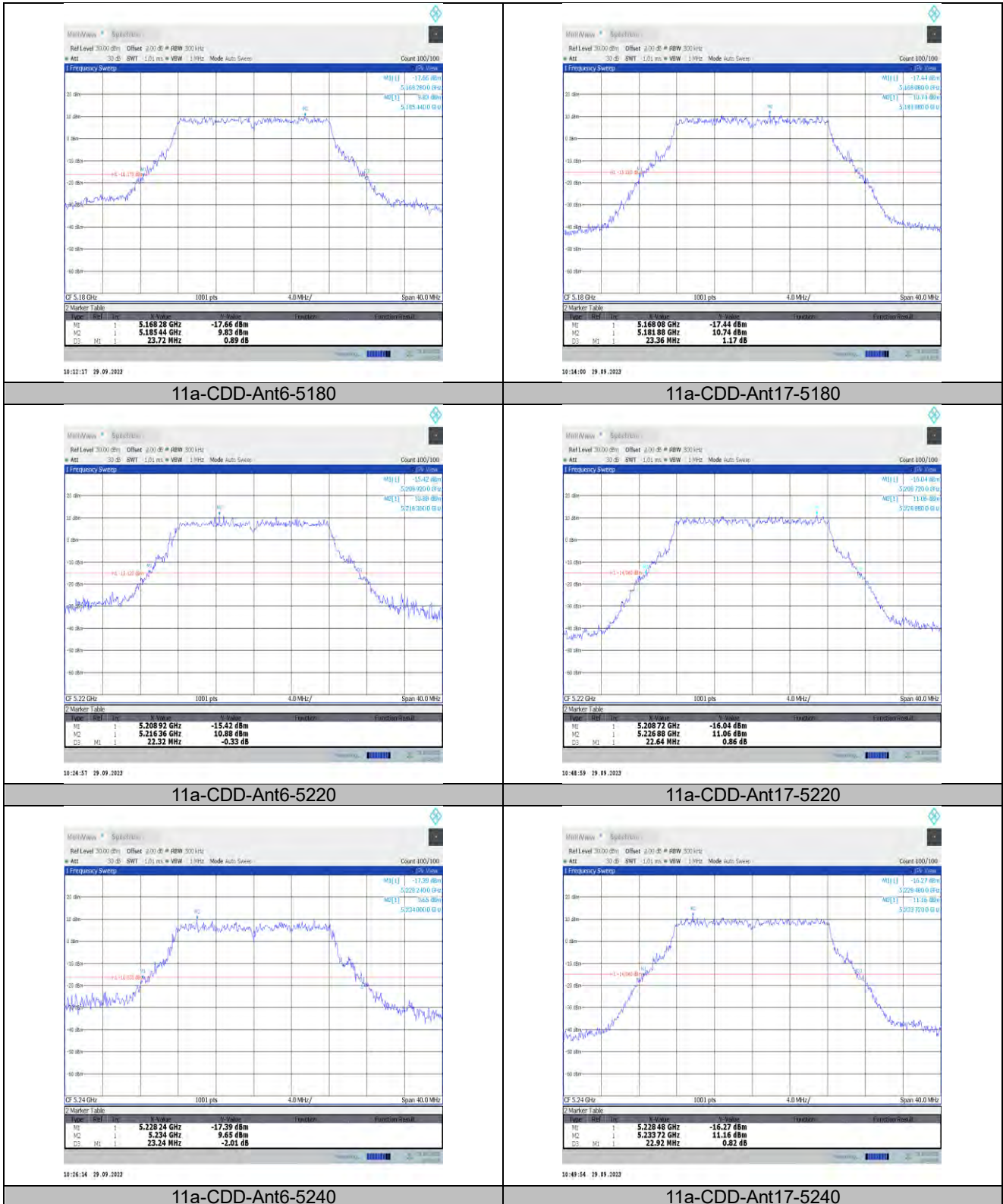


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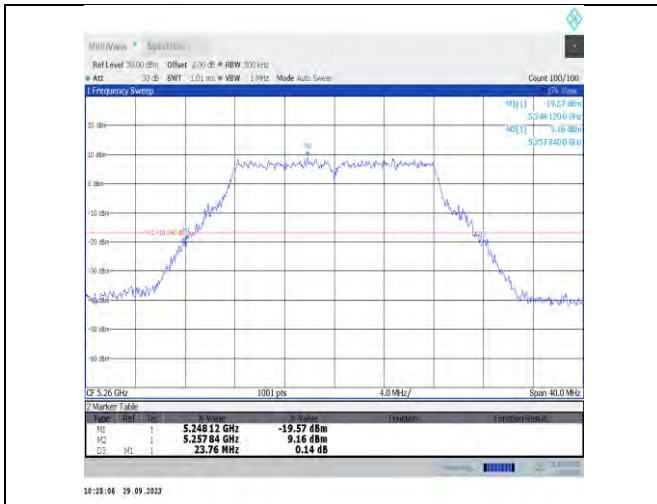
Test Graphs



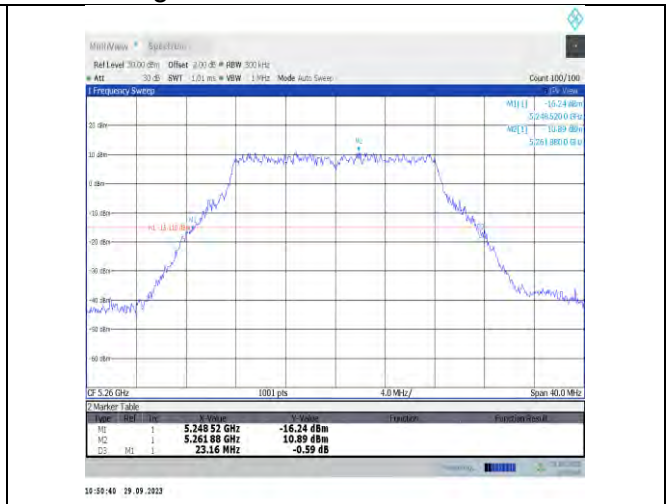
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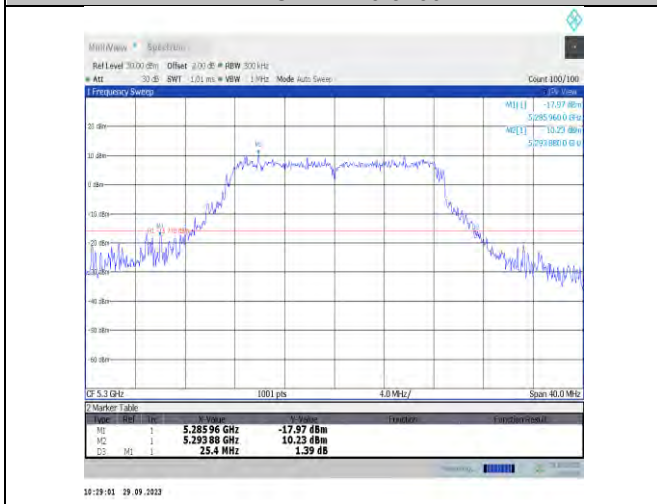
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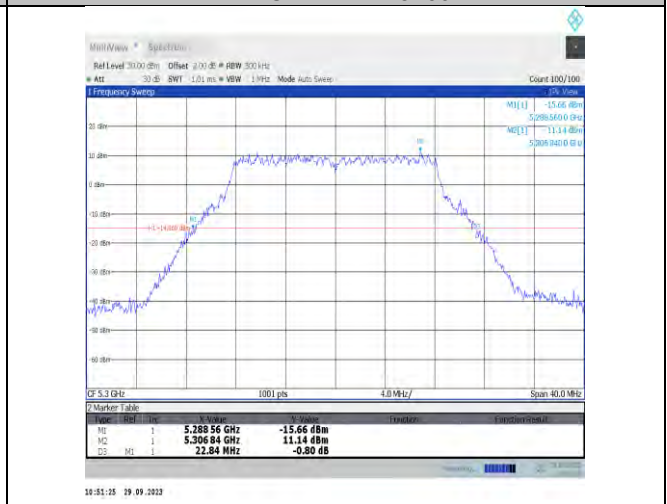
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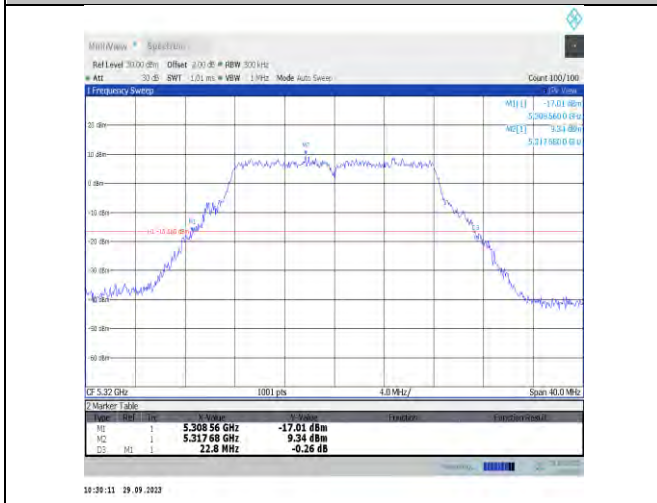
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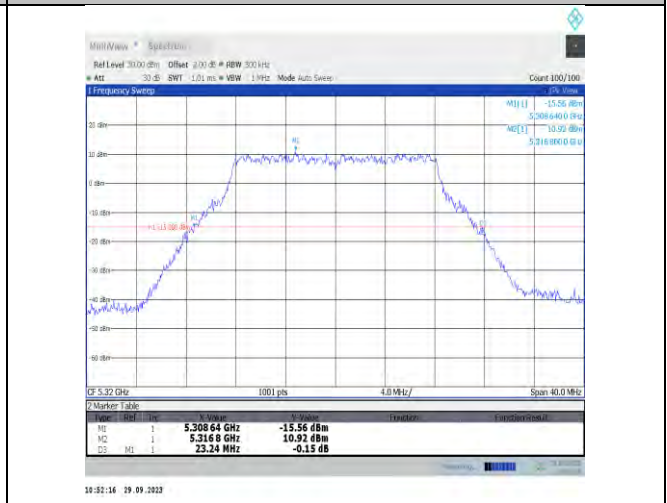
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11a-CDD-Ant17-5300



11a-CDD-Ant6-5320

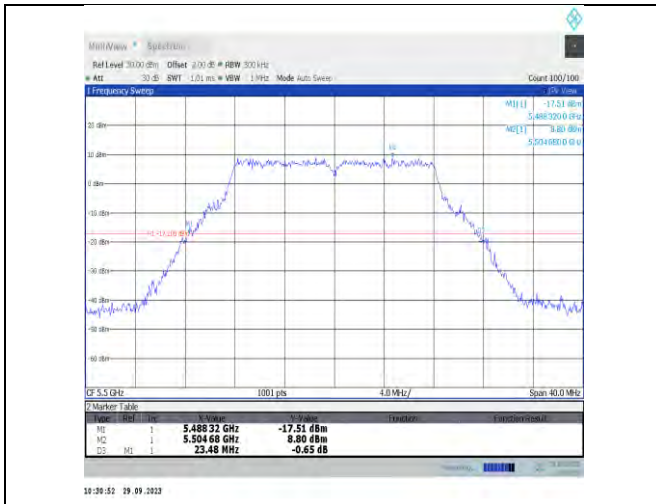


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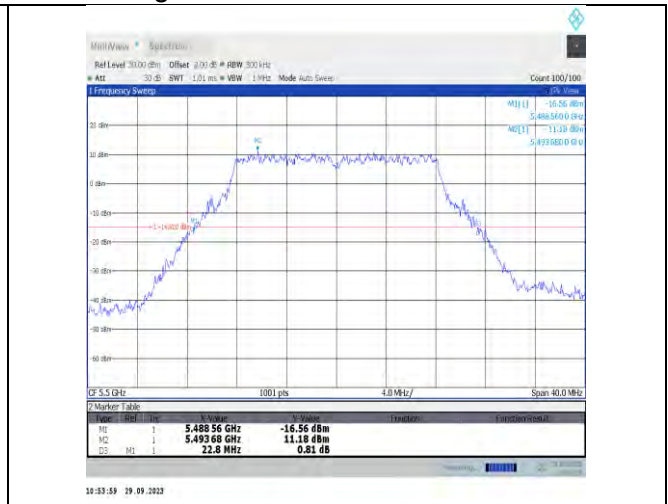


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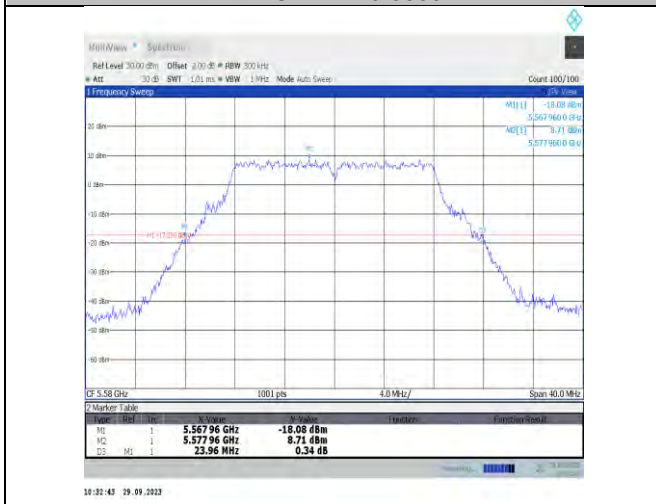
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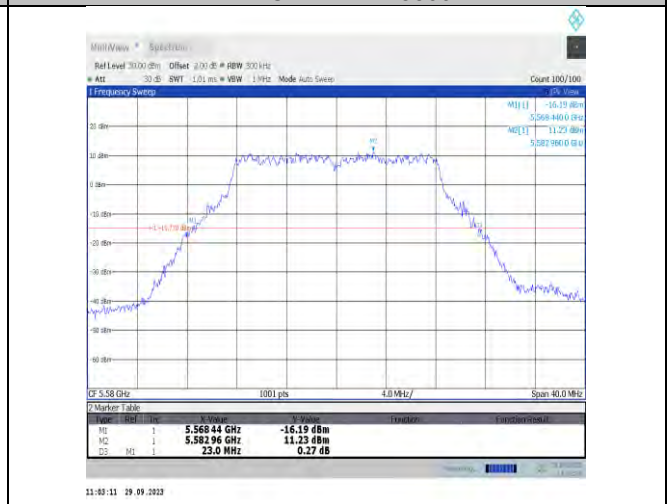
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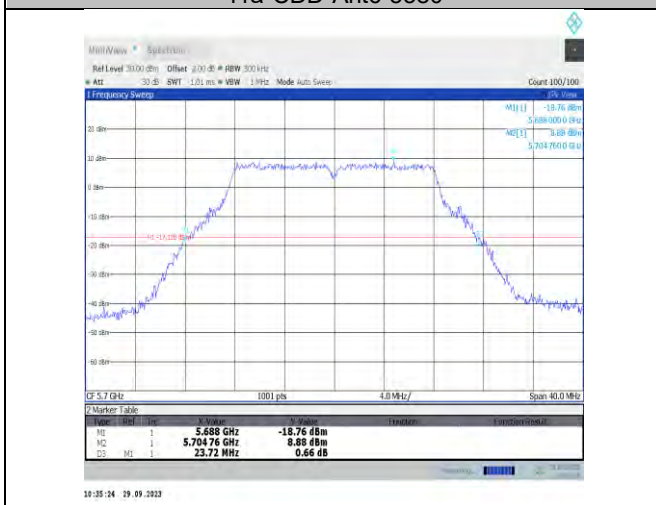
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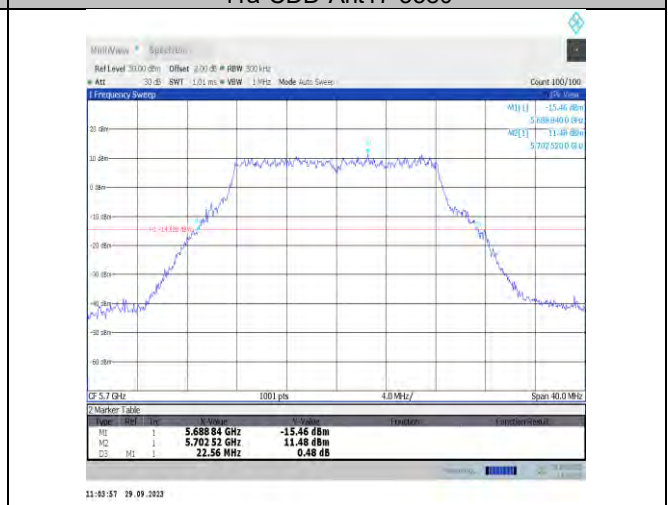
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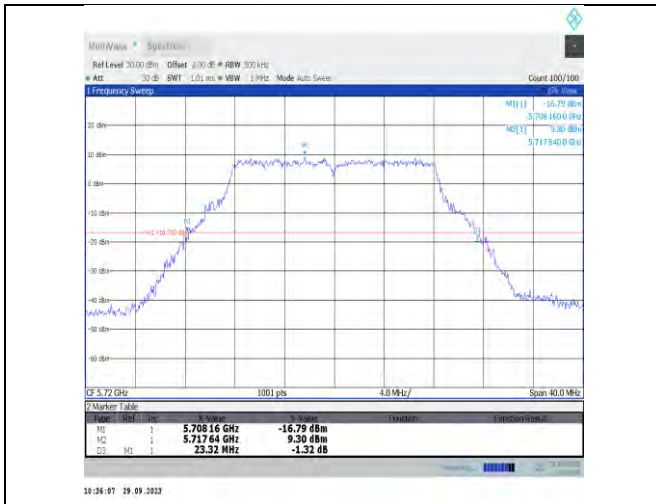


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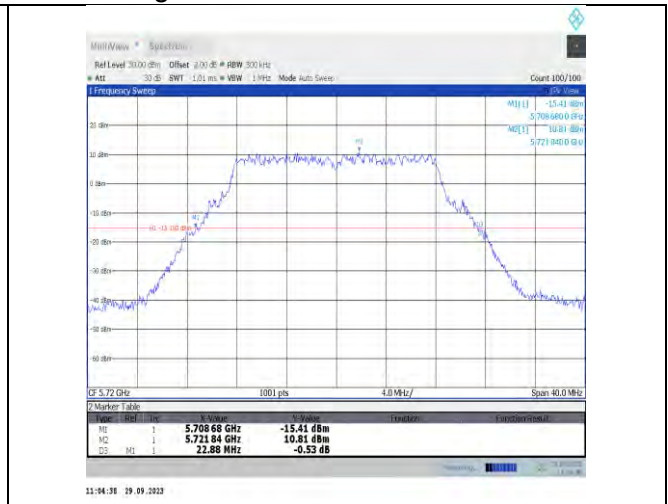


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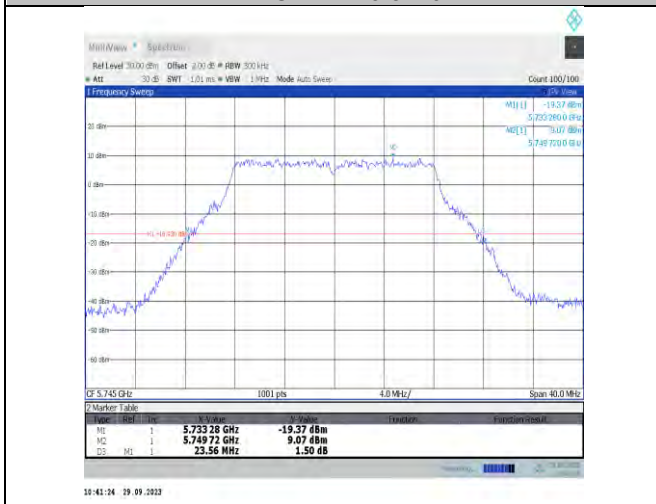
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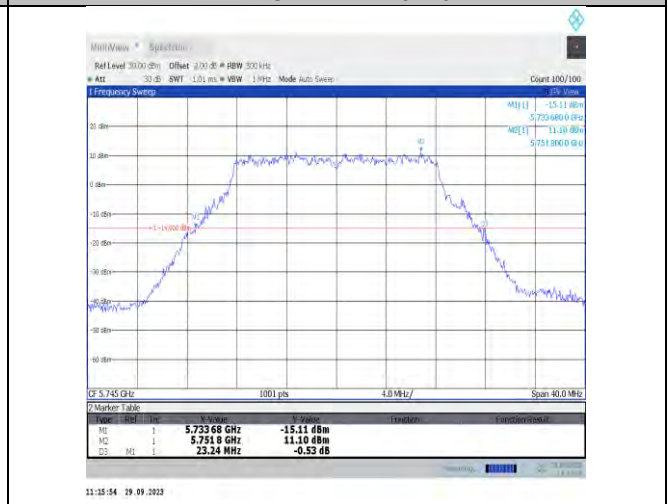
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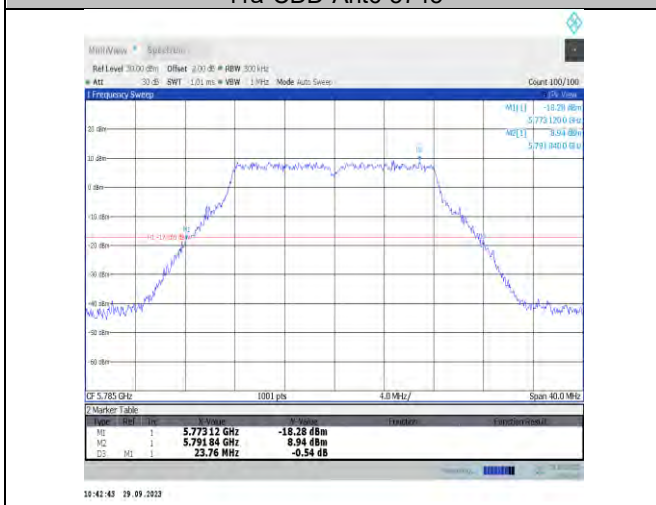
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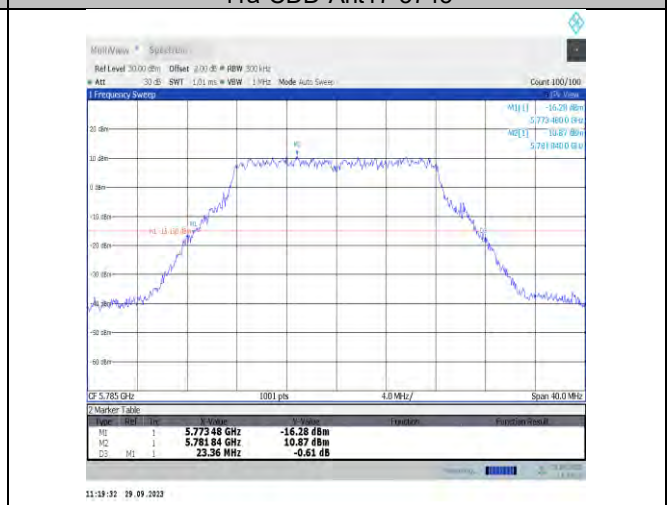
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11a-CDD-Ant6-5785

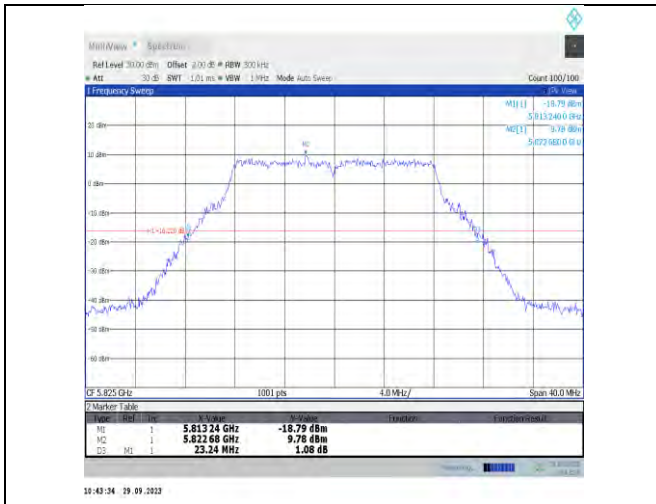


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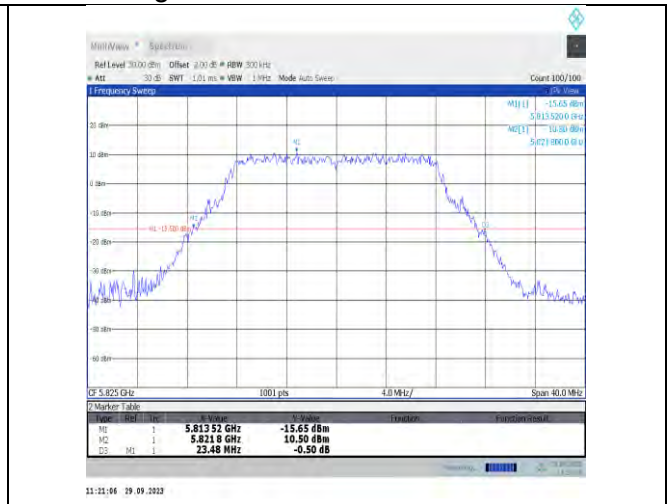


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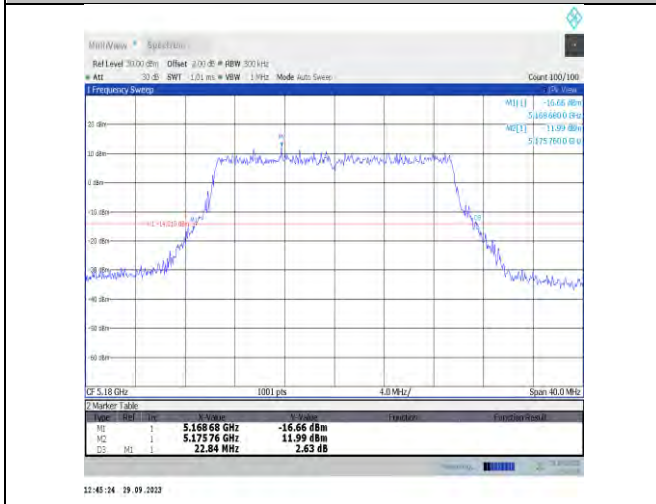
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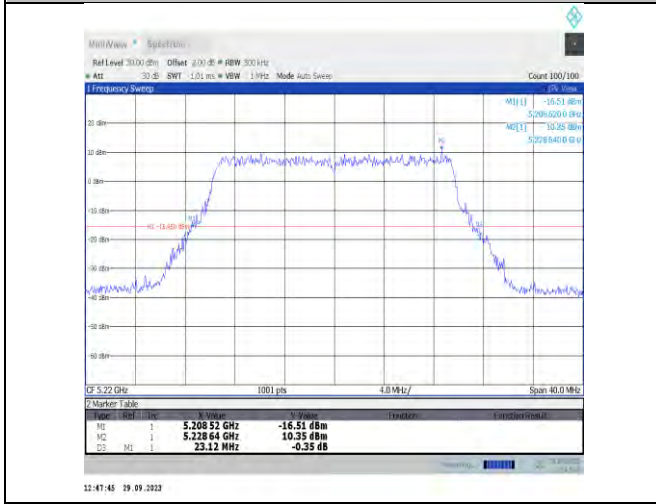
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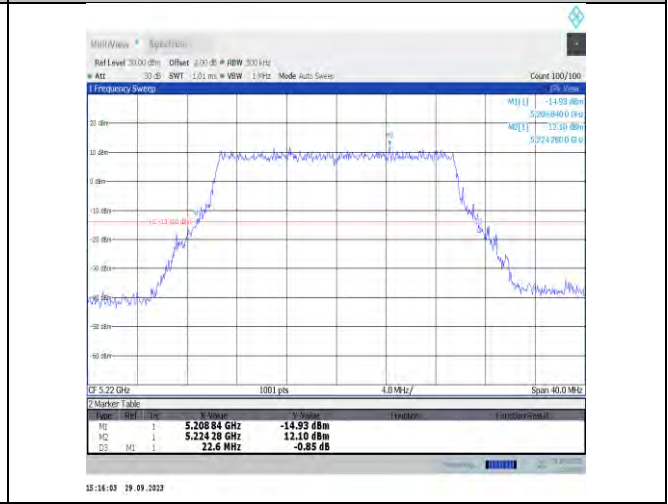
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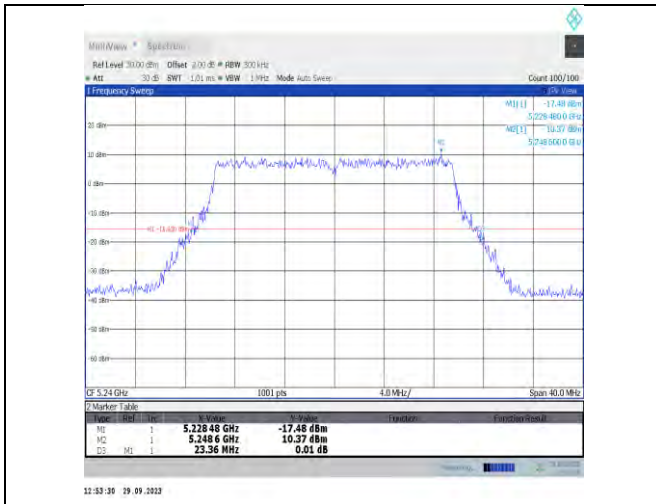


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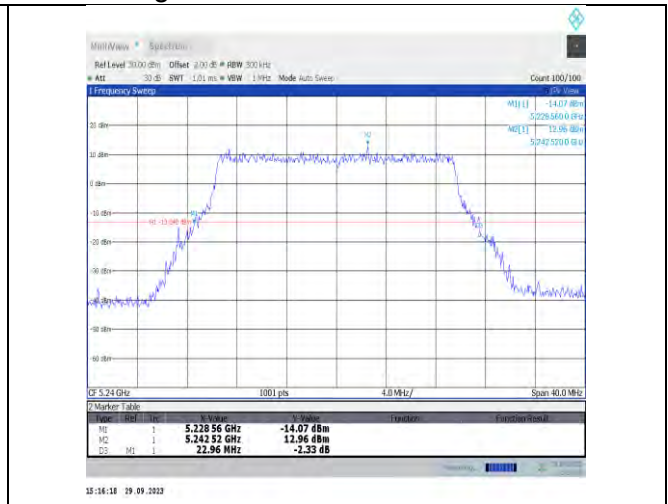


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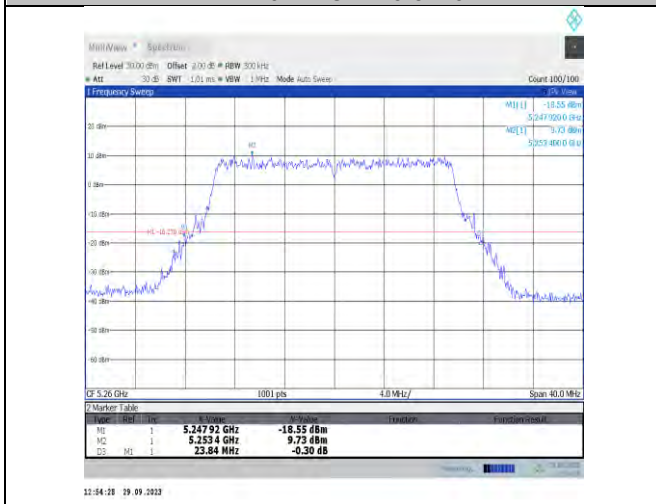
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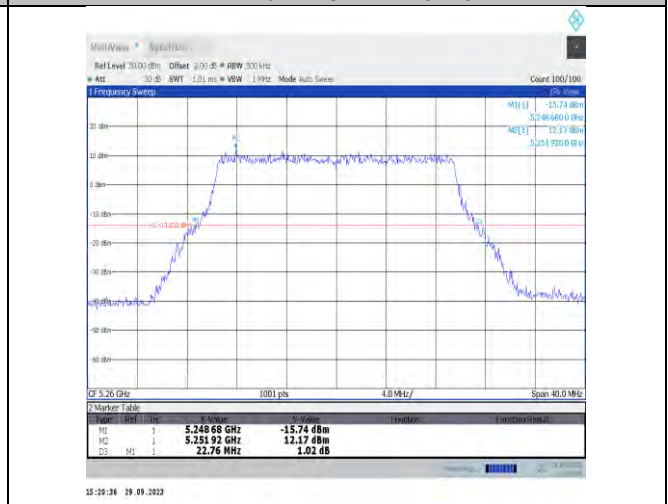
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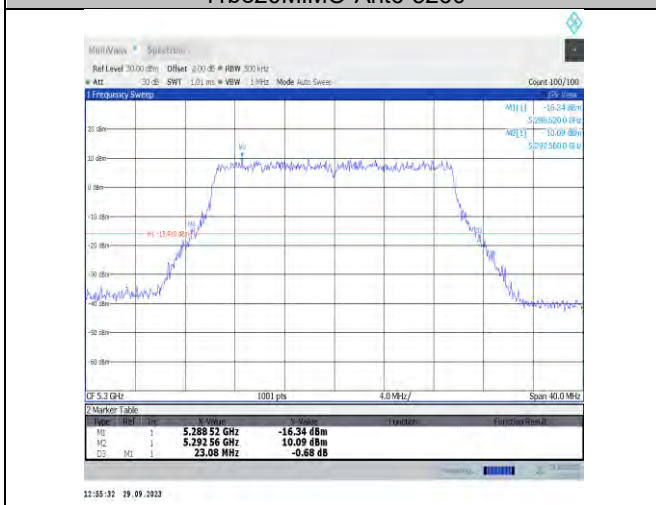
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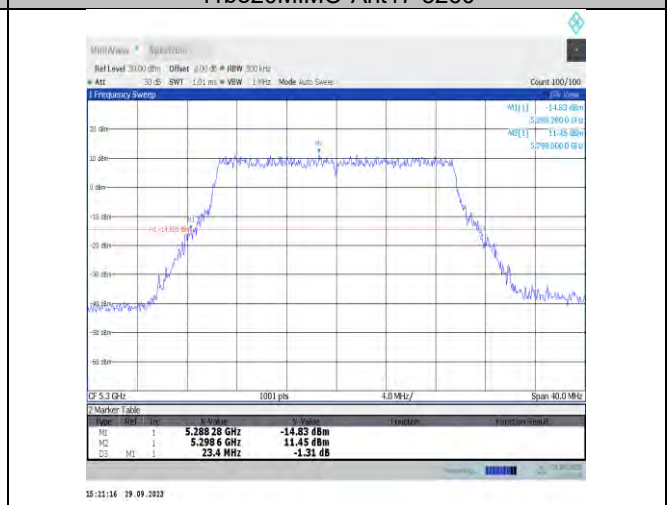
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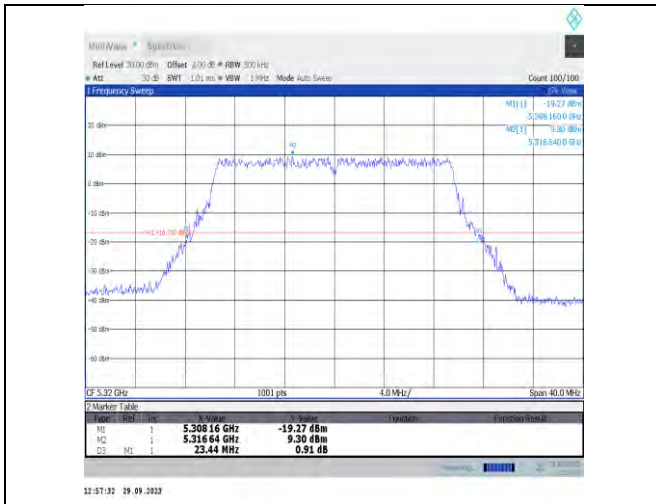


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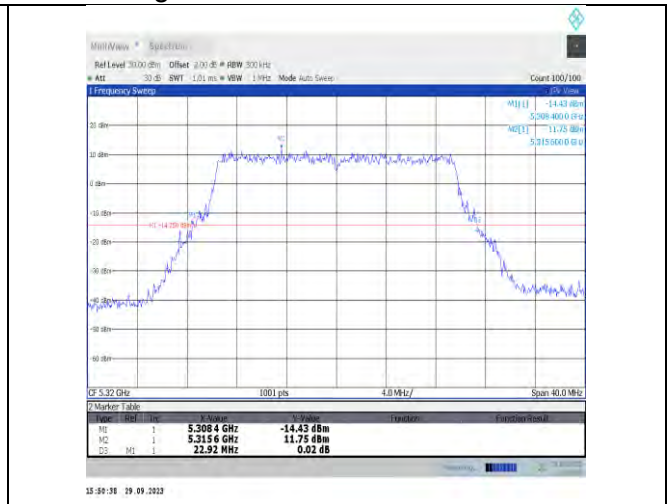


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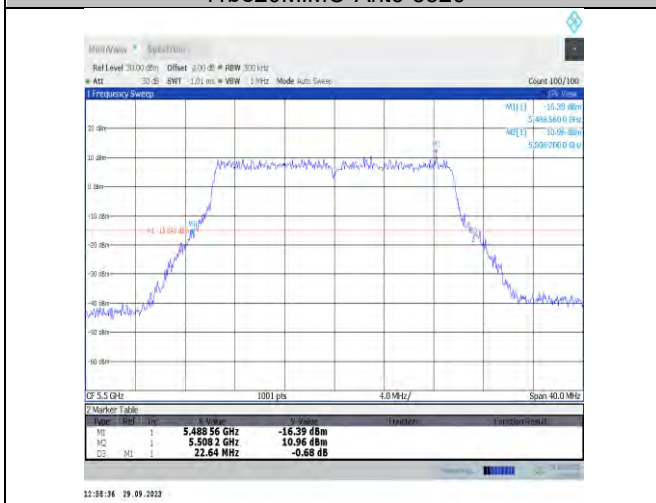
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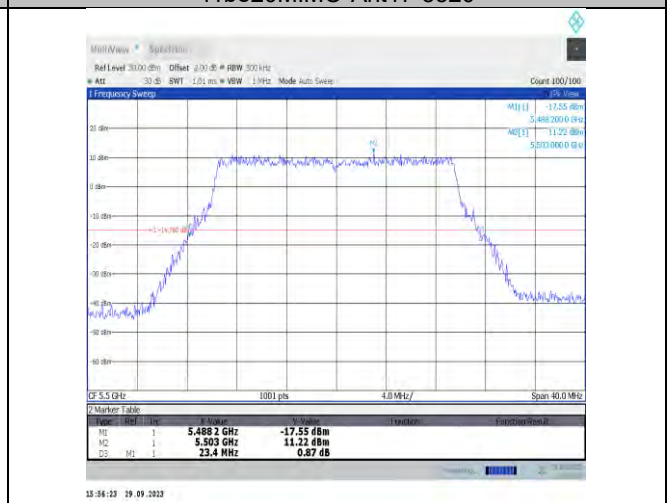
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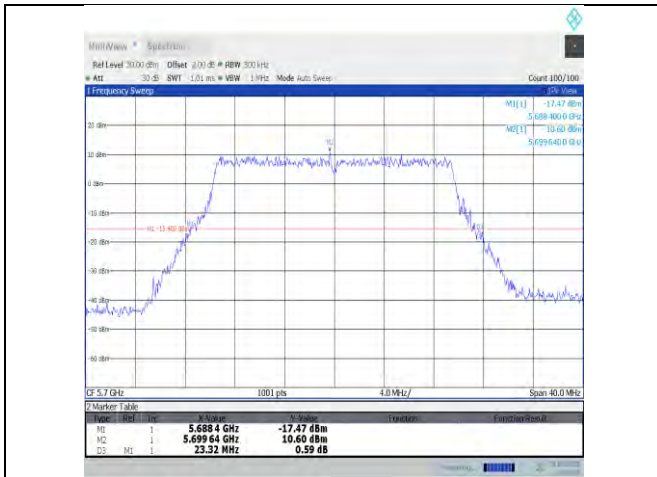


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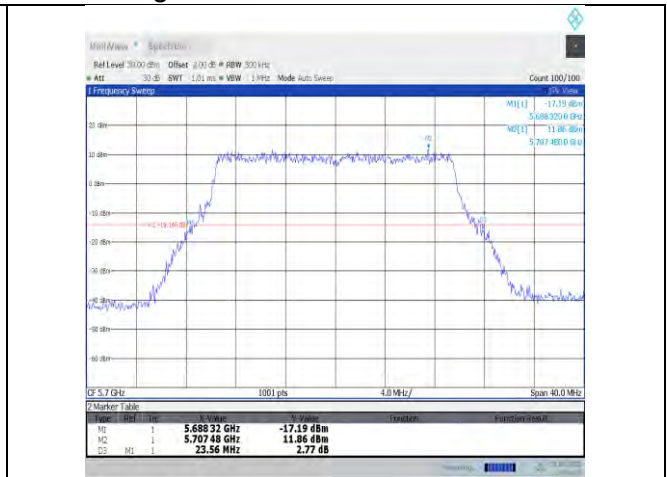


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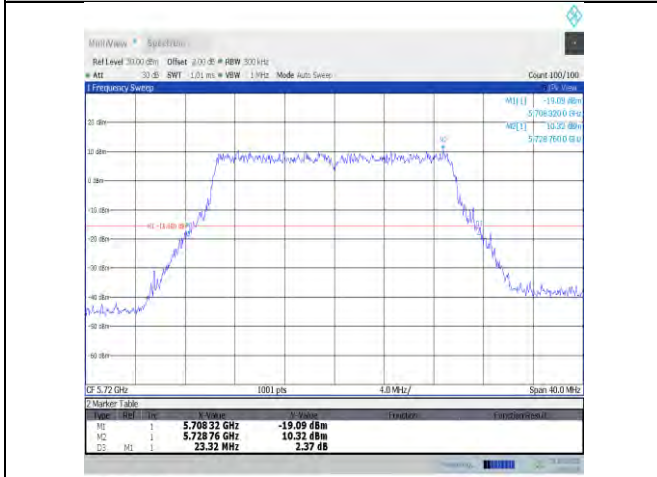
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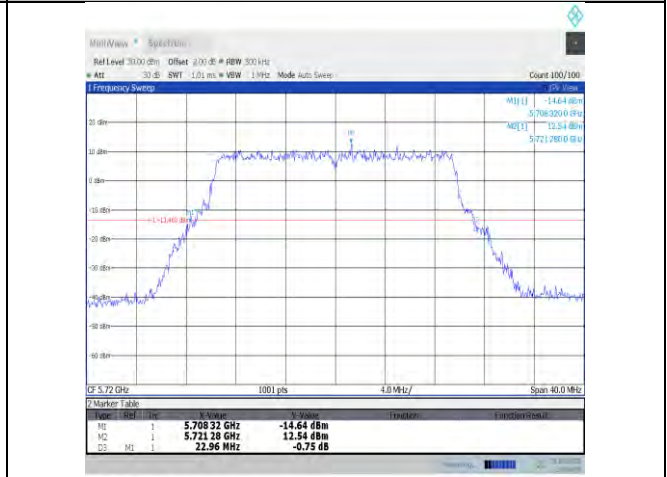
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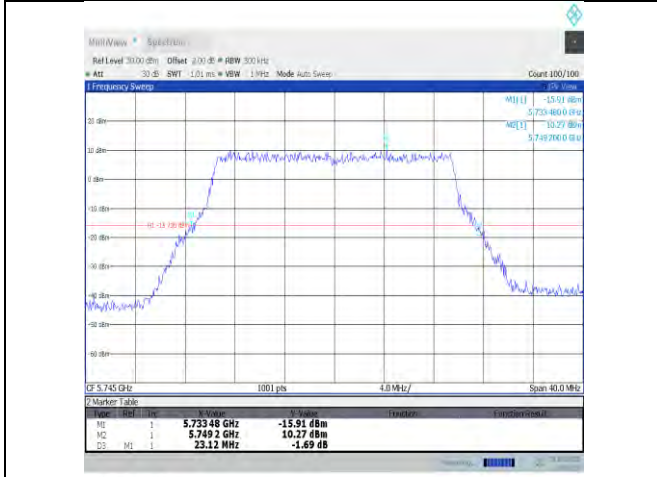
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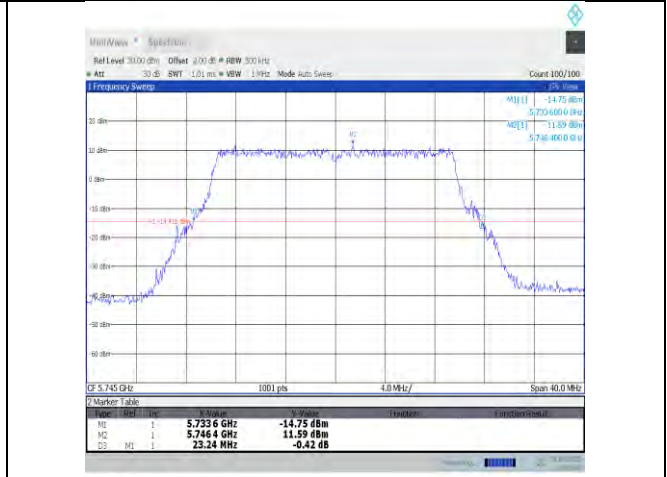
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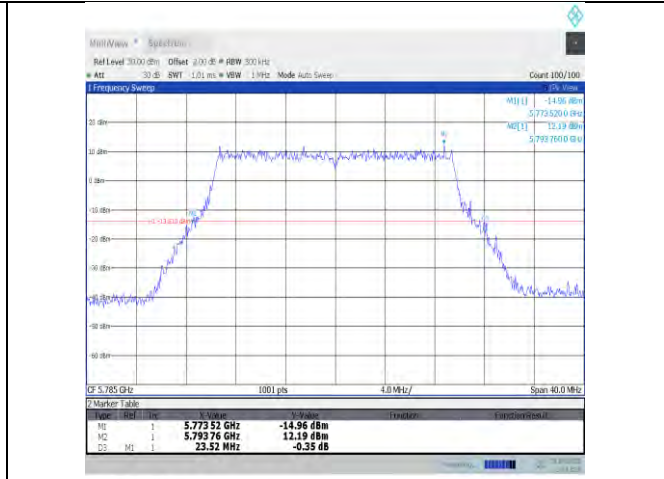


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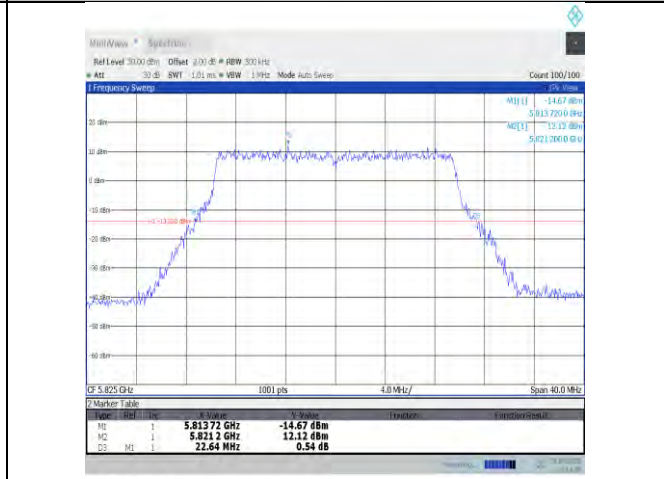
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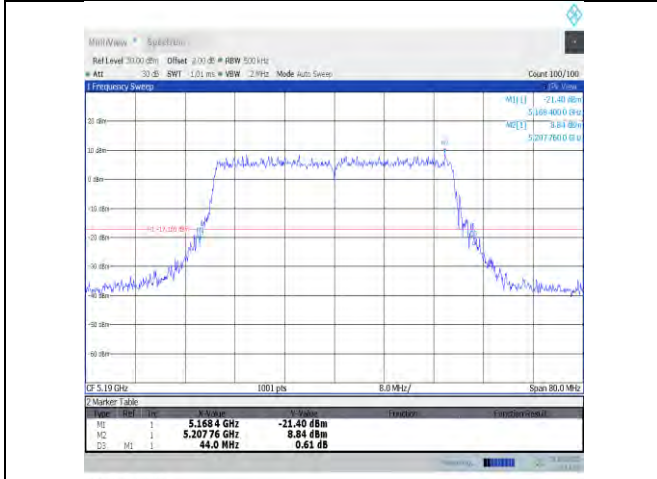
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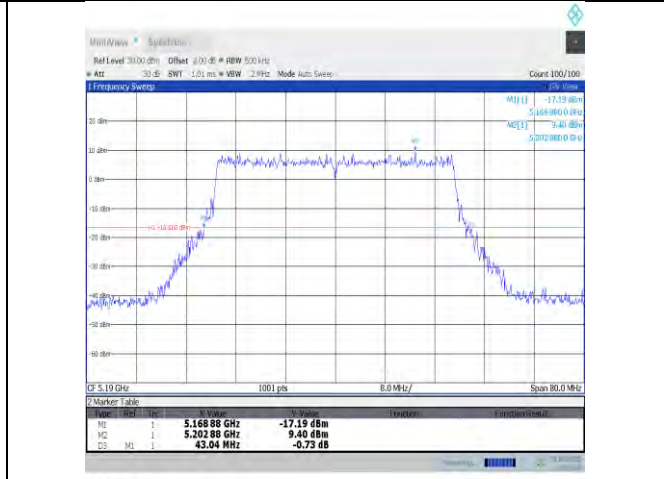
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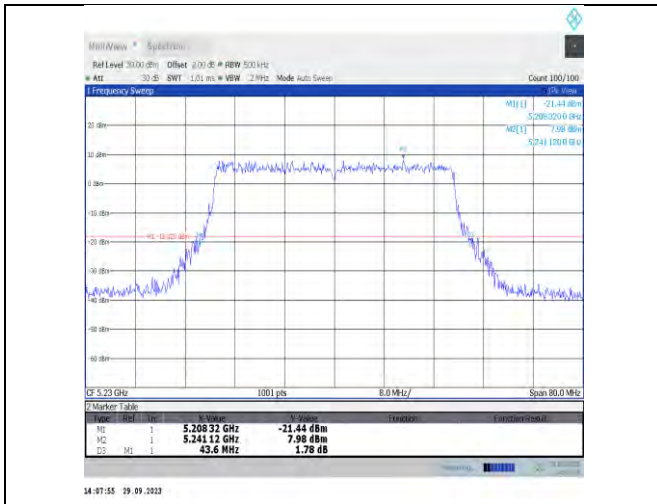


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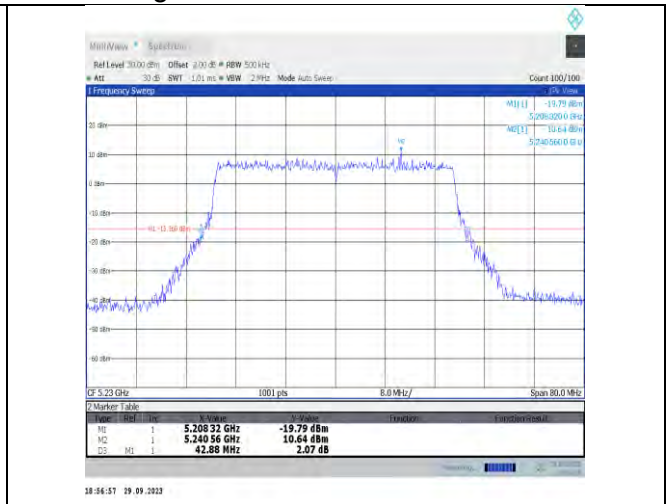


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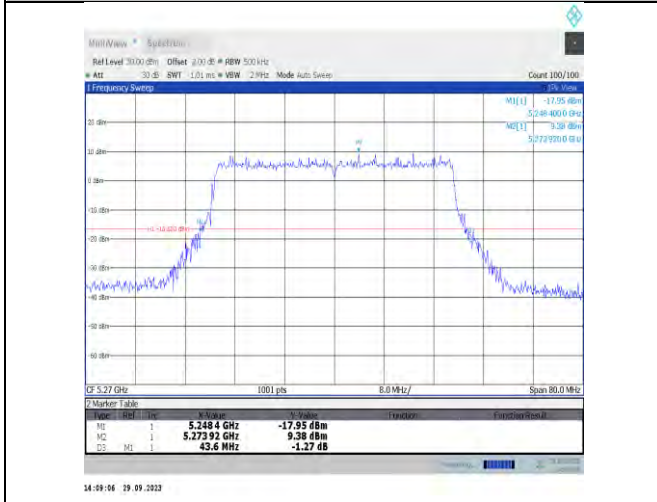
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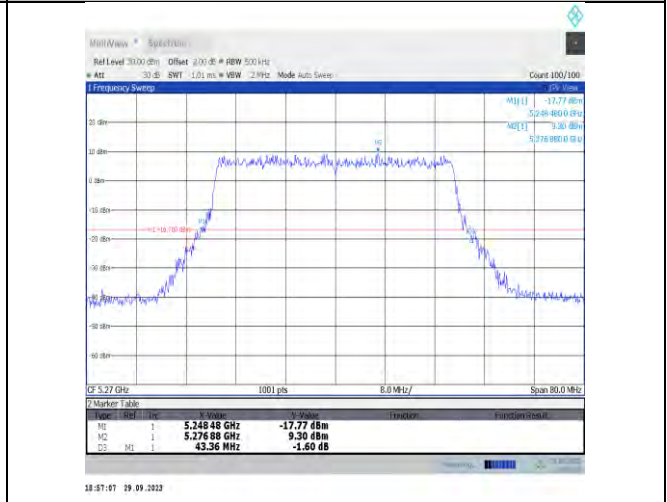
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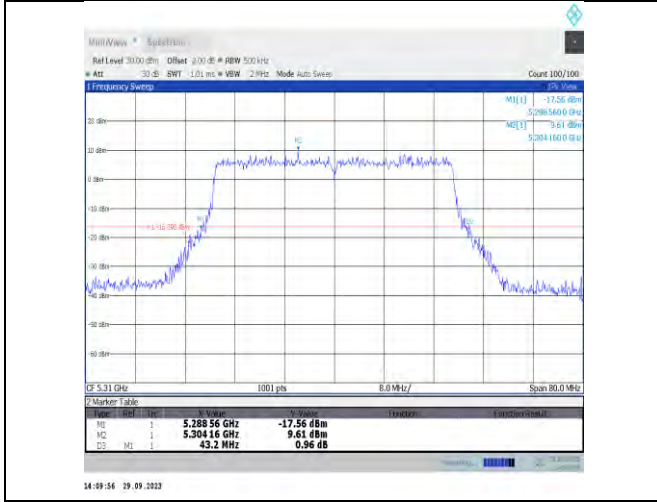
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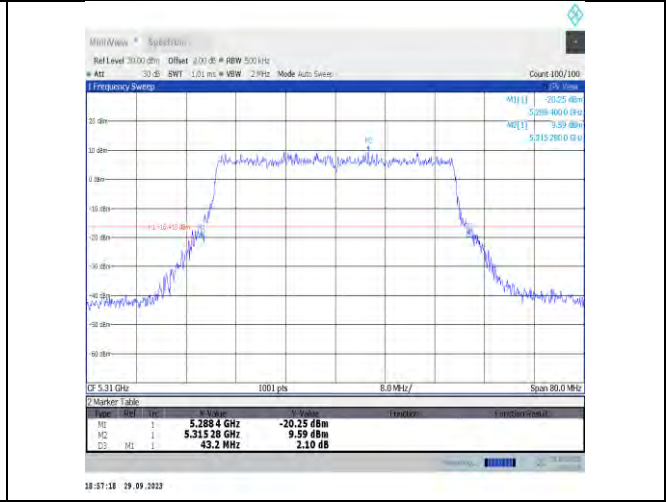
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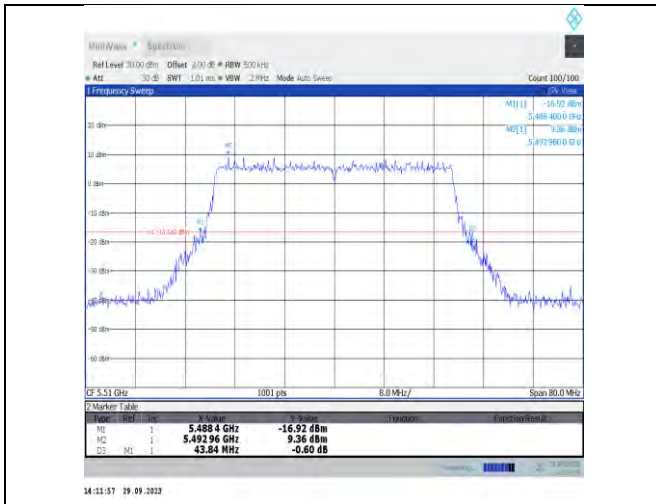


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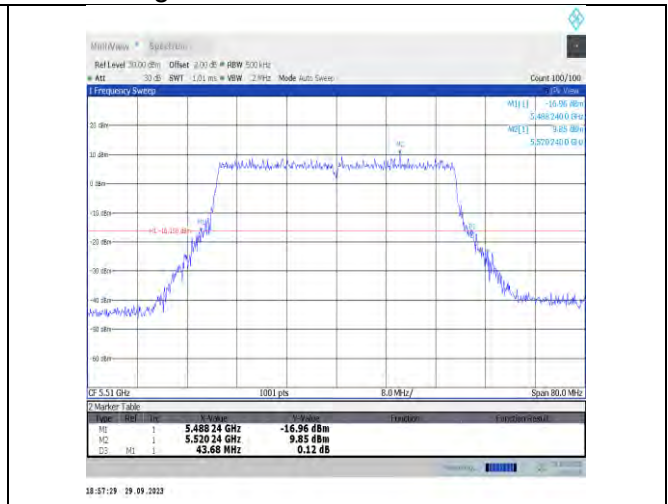


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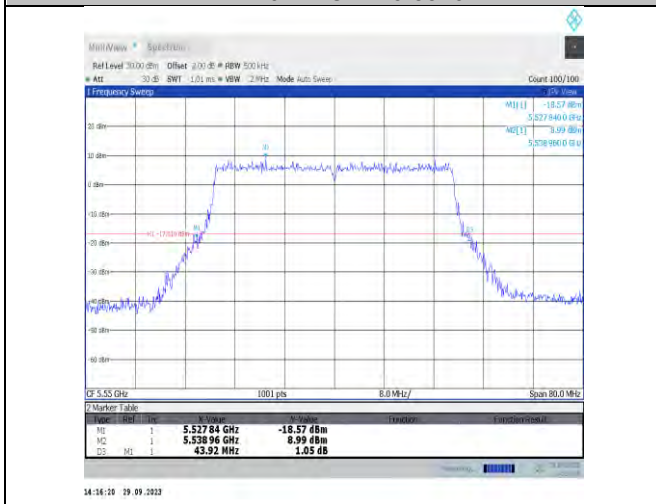
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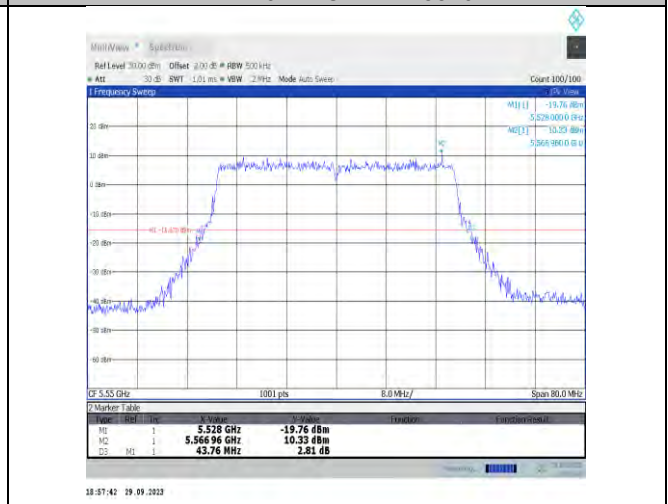
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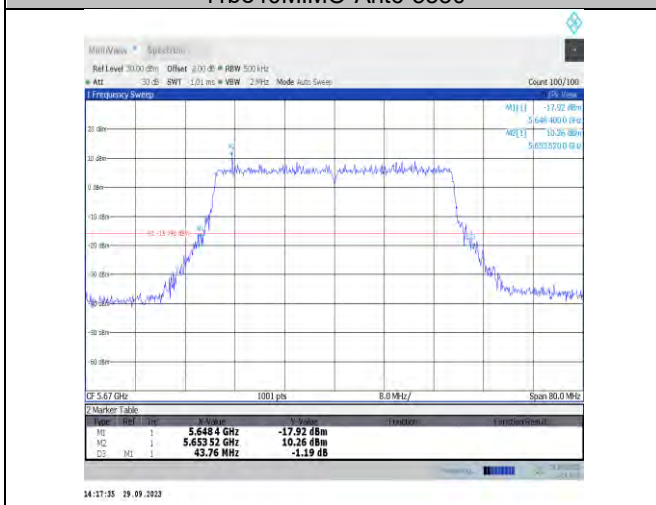
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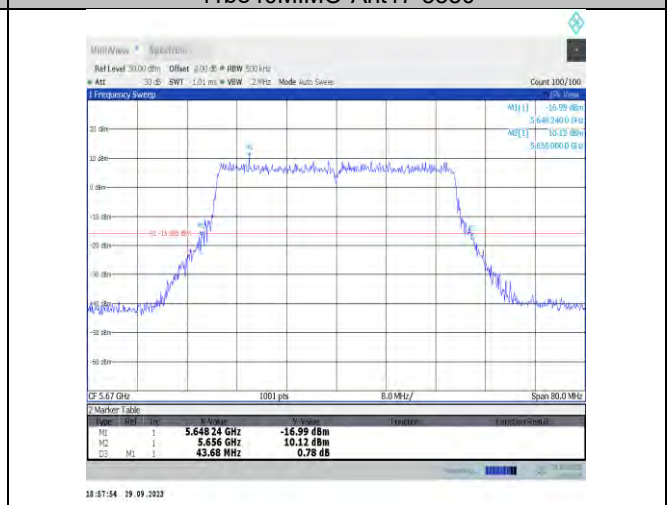
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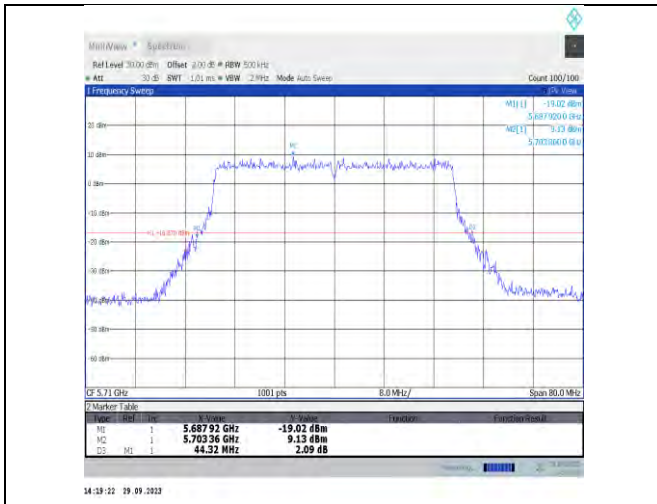


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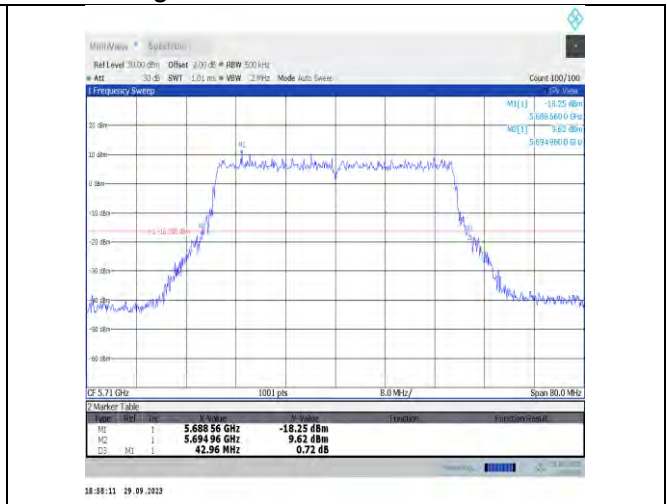


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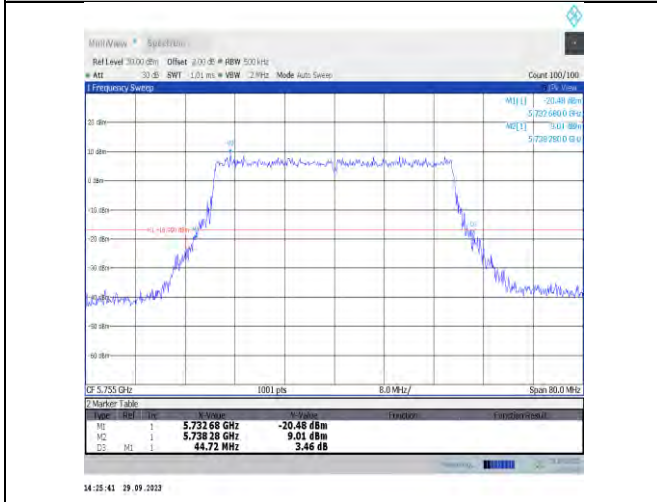
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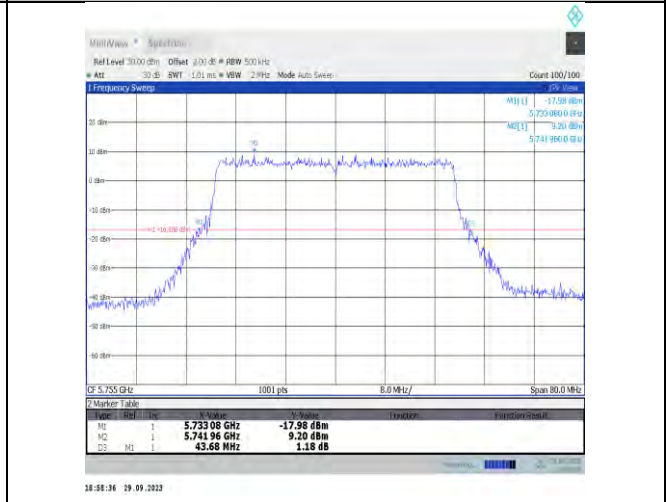
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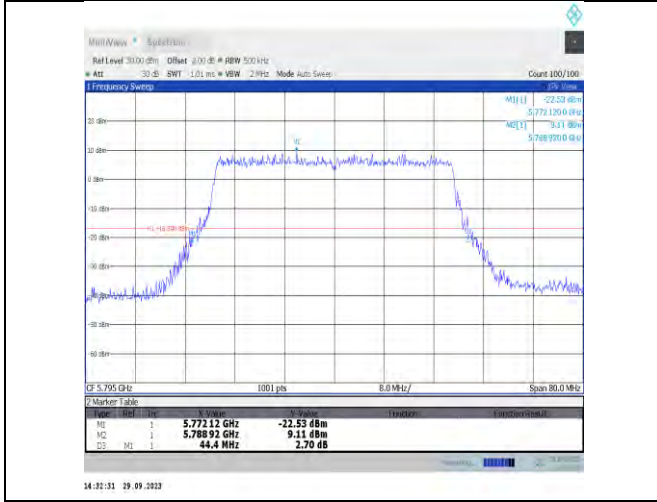
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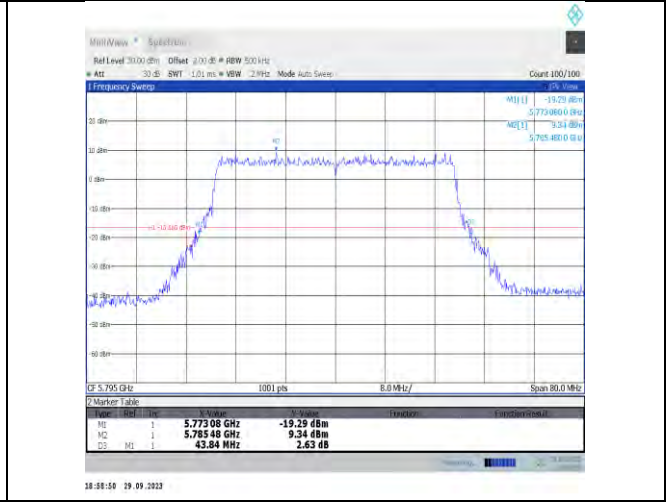
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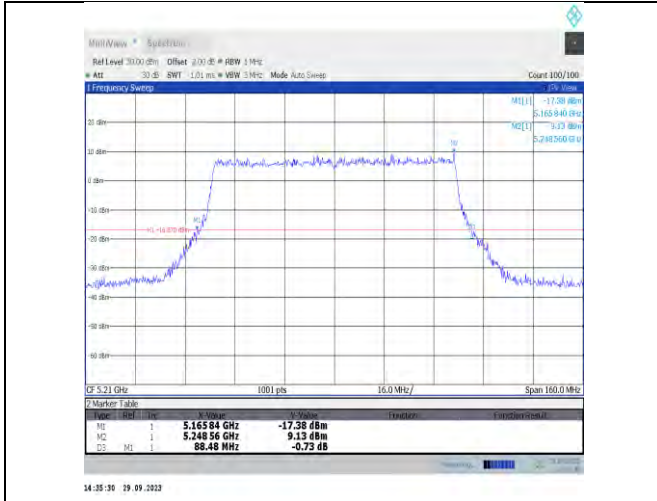


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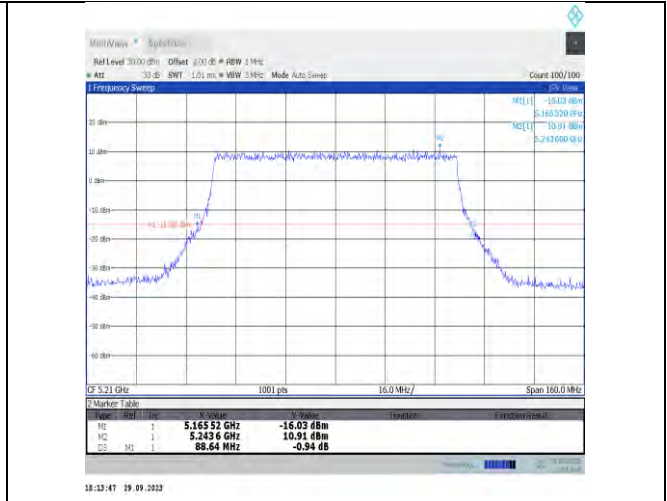


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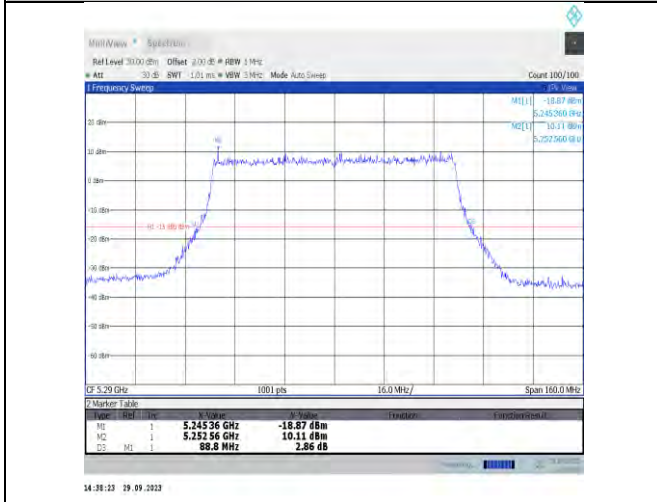
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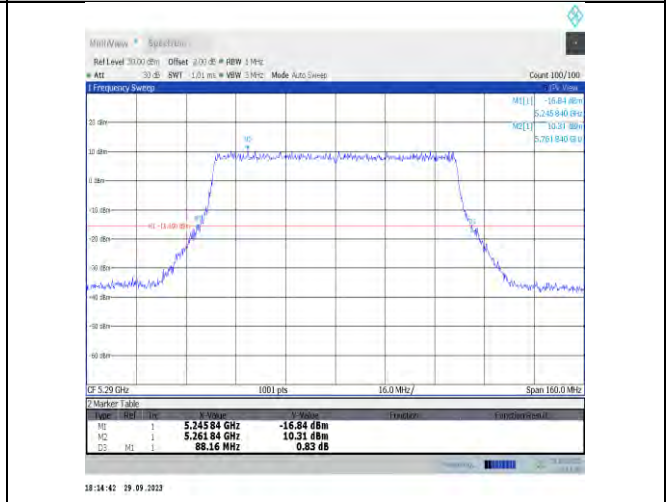
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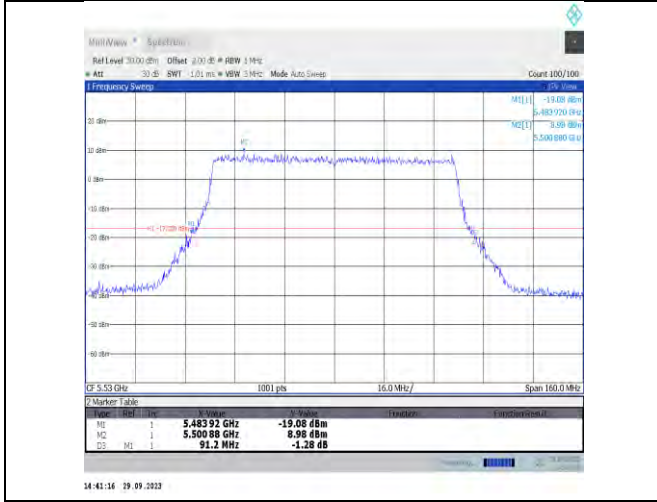
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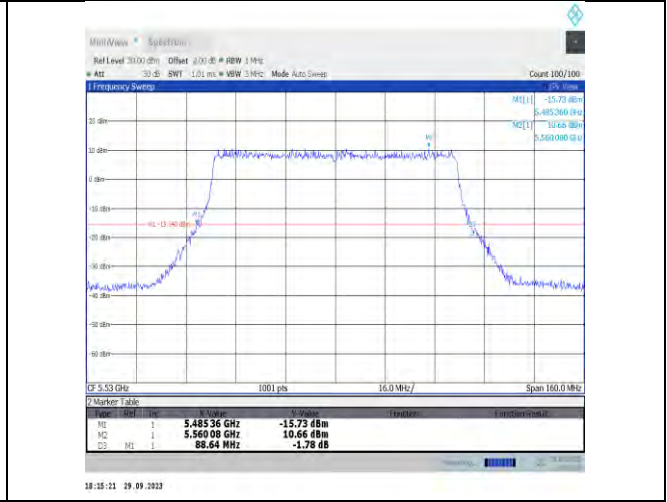
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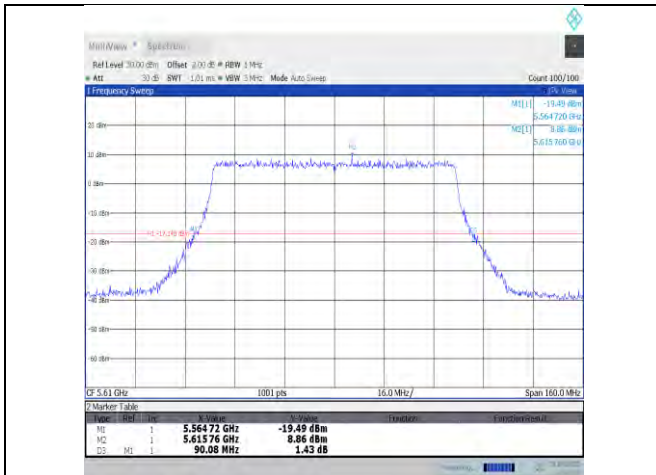


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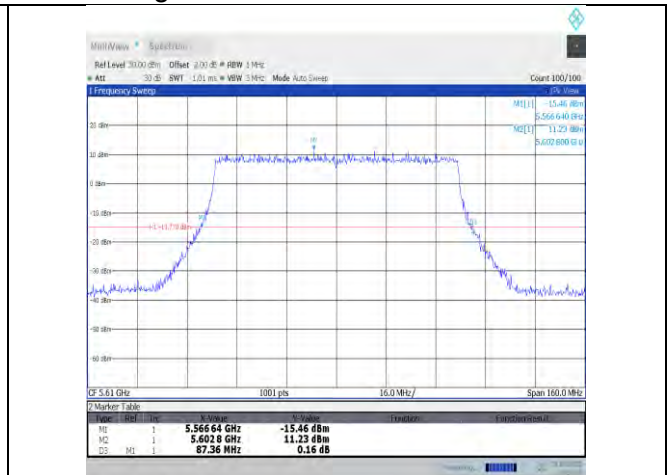


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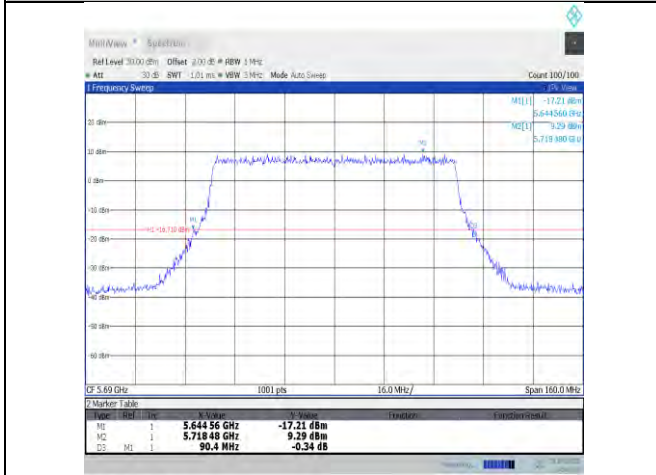
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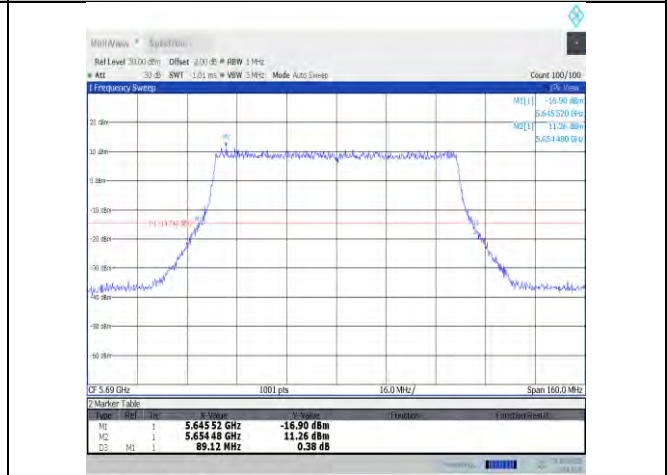
11be80MIMO-Ant6-5610



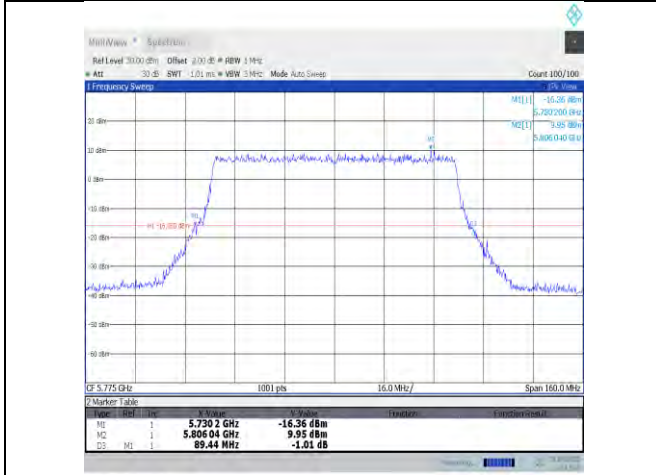
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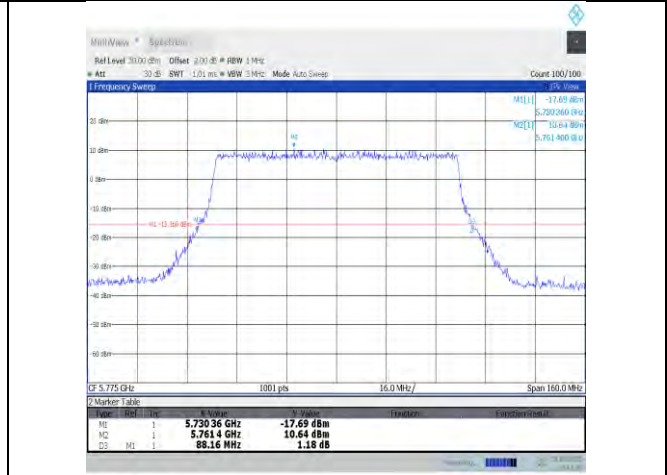
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11be80MIMO-Ant17-5690



11be80MIMO-Ant6-5775

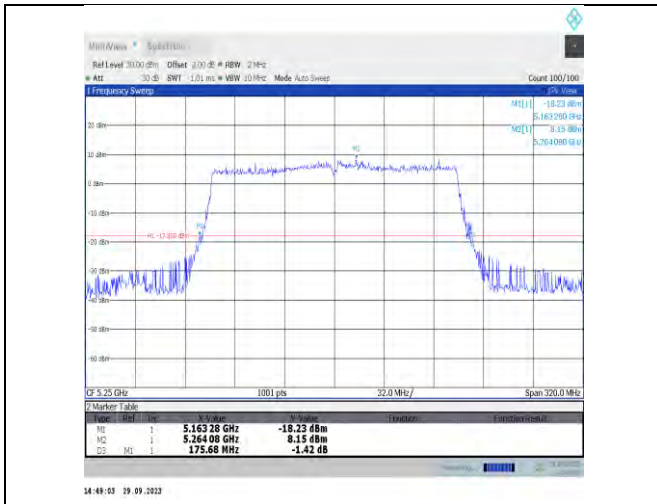


11be80MIMO-Ant17-5775

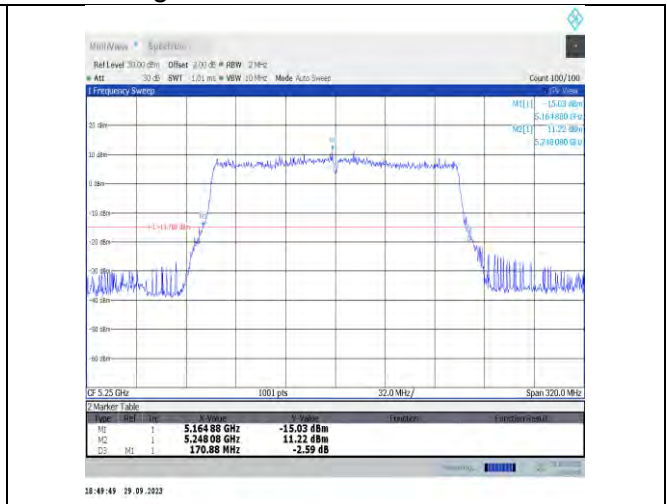


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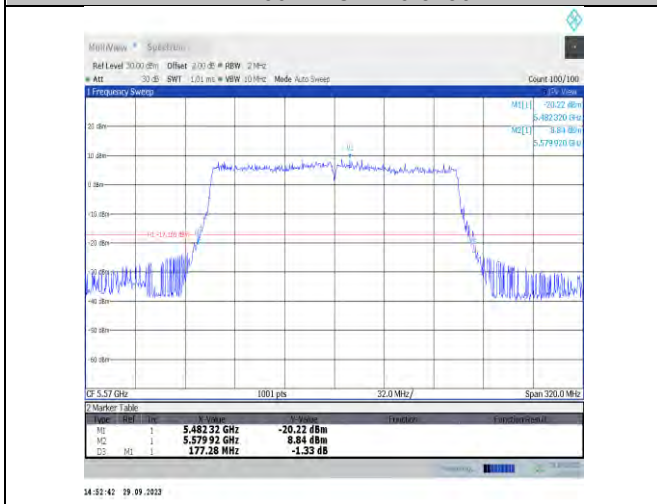
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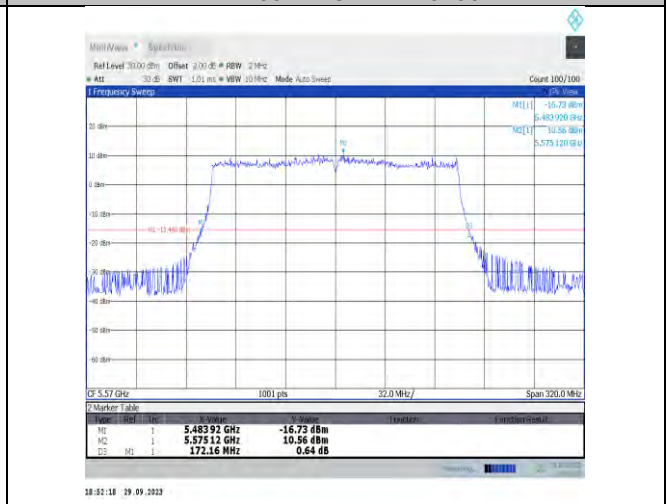
11be160MIMO-Ant6-5250



11be160MIMO-Ant17-5250



11be160MIMO-Ant6-5570



11be160MIMO-Ant17-5570



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**Occupied channel bandwidth
Test Result**

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
11a-CDD	Ant6	5180	17.617	5171.2096	5188.8271	For Report Purpose
11a-CDD	Ant17	5180	17.444	5171.2316	5188.6759	
11a-CDD	Ant6	5220	17.688	5211.1518	5228.8402	
11a-CDD	Ant17	5220	17.49	5211.2210	5228.7111	
11a-CDD	Ant6	5240	17.633	5231.1555	5248.7885	
11a-CDD	Ant17	5240	17.458	5231.2498	5248.7074	
11a-CDD	Ant6	5260	17.65	5251.1743	5268.8244	
11a-CDD	Ant17	5260	17.399	5251.3141	5268.7129	
11a-CDD	Ant6	5300	17.567	5291.1885	5308.7557	
11a-CDD	Ant17	5300	17.499	5291.1977	5308.6963	
11a-CDD	Ant6	5320	17.597	5311.1448	5328.7420	
11a-CDD	Ant17	5320	17.579	5311.1818	5328.7607	
11a-CDD	Ant6	5500	17.608	5491.1409	5508.7493	
11a-CDD	Ant17	5500	17.493	5491.2081	5508.7011	
11a-CDD	Ant6	5580	17.668	5571.0894	5588.7570	
11a-CDD	Ant17	5580	17.416	5571.2714	5588.6874	
11a-CDD	Ant6	5700	17.69	5691.1055	5708.7960	
11a-CDD	Ant17	5700	17.419	5691.2748	5708.6939	
11a-CDD	Ant6	5720	17.605	5711.1662	5728.7716	
11a-CDD	Ant17	5720	17.44	5711.2769	5728.7169	
11a-CDD	Ant6	5720_UNII-2C	13.834	5711.1662	5725	
11a-CDD	Ant17	5720_UNII-2C	13.723	5711.2769	5725	
11a-CDD	Ant6	5720_UNII-3	3.772	5725	5728.7716	
11a-CDD	Ant17	5720_UNII-3	3.717	5725	5728.7169	
11a-CDD	Ant6	5745	17.662	5736.1097	5753.7718	
11a-CDD	Ant17	5745	17.413	5736.2765	5753.6897	
11a-CDD	Ant6	5785	17.725	5776.0701	5793.7946	
11a-CDD	Ant17	5785	17.39	5776.2913	5793.6818	
11a-CDD	Ant6	5825	17.687	5816.1035	5833.7901	
11a-CDD	Ant17	5825	17.529	5816.2318	5833.7612	
11be20MIMO	Ant6	5180	19.414	5170.2837	5189.6975	
11be20MIMO	Ant17	5180	19.337	5170.3240	5189.6606	
11be20MIMO	Ant6	5220	19.381	5210.2995	5229.6804	
11be20MIMO	Ant17	5220	19.315	5210.3308	5229.6453	
11be20MIMO	Ant6	5240	19.324	5230.3516	5249.6752	
11be20MIMO	Ant17	5240	19.346	5230.2987	5249.6444	
11be20MIMO	Ant6	5260	19.356	5250.3376	5269.6940	
11be20MIMO	Ant17	5260	19.324	5250.2952	5269.6188	
11be20MIMO	Ant6	5300	19.353	5290.3037	5309.6571	
11be20MIMO	Ant17	5300	19.383	5290.2922	5309.6753	
11be20MIMO	Ant6	5320	19.369	5310.2799	5329.6486	
11be20MIMO	Ant17	5320	19.344	5310.2895	5329.6338	
11be20MIMO	Ant6	5500	19.338	5490.2991	5509.6375	
11be20MIMO	Ant17	5500	19.376	5490.2930	5509.6694	
11be20MIMO	Ant6	5580	19.334	5570.3139	5589.6475	
11be20MIMO	Ant17	5580	19.335	5570.3111	5589.6456	
11be20MIMO	Ant6	5700	19.345	5690.2901	5709.6351	
11be20MIMO	Ant17	5700	19.347	5690.3244	5709.6711	
11be20MIMO	Ant6	5720	19.355	5710.3117	5729.6672	
11be20MIMO	Ant17	5720	19.347	5710.2949	5729.6419	
11be20MIMO	Ant6	5720_UNII-2C	14.688	5710.3117	5725	



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11be20MIMO	Ant17	5720 UNII-2C	14.705	5710.2949	5725
11be20MIMO	Ant6	5720 UNII-3	4.667	5725	5729.6672
11be20MIMO	Ant17	5720 UNII-3	4.642	5725	5729.6419
11be20MIMO	Ant6	5745	19.34	5735.3213	5754.6617
11be20MIMO	Ant17	5745	19.333	5735.3047	5754.6378
11be20MIMO	Ant6	5785	19.36	5775.3102	5794.6701
11be20MIMO	Ant17	5785	19.329	5775.3122	5794.6413
11be20MIMO	Ant6	5825	19.349	5815.3082	5834.6567
11be20MIMO	Ant17	5825	19.35	5815.3169	5834.6672
11be40MIMO	Ant6	5190	38.559	5170.7908	5209.3501
11be40MIMO	Ant17	5190	38.432	5170.7487	5209.1805
11be40MIMO	Ant6	5230	38.52	5210.7793	5249.2998
11be40MIMO	Ant17	5230	38.472	5210.7557	5249.2280
11be40MIMO	Ant6	5270	38.604	5250.7564	5289.3605
11be40MIMO	Ant17	5270	38.405	5250.8015	5289.2068
11be40MIMO	Ant6	5310	38.527	5290.7336	5329.2606
11be40MIMO	Ant17	5310	38.483	5290.7551	5329.2383
11be40MIMO	Ant6	5510	38.517	5490.7450	5529.2617
11be40MIMO	Ant17	5510	38.479	5490.7308	5529.2094
11be40MIMO	Ant6	5550	38.503	5530.7496	5569.2525
11be40MIMO	Ant17	5550	38.485	5530.7902	5569.2748
11be40MIMO	Ant6	5670	38.577	5650.7272	5689.3045
11be40MIMO	Ant17	5670	38.504	5650.7726	5689.2769
11be40MIMO	Ant6	5710	38.558	5690.7567	5729.3152
11be40MIMO	Ant17	5710	38.466	5690.7801	5729.2456
11be40MIMO	Ant6	5710 UNII-2C	34.243	5690.7567	5725
11be40MIMO	Ant17	5710 UNII-2C	34.22	5690.7801	5725
11be40MIMO	Ant6	5710 UNII-3	4.315	5725	5729.3152
11be40MIMO	Ant17	5710 UNII-3	4.246	5725	5729.2456
11be40MIMO	Ant6	5755	38.491	5735.8139	5774.3050
11be40MIMO	Ant17	5755	38.464	5735.7327	5774.1970
11be40MIMO	Ant6	5795	38.536	5775.7495	5814.2857
11be40MIMO	Ant17	5795	38.464	5775.7792	5814.2434
11be80MIMO	Ant6	5210	78.721	5170.7760	5249.4970
11be80MIMO	Ant17	5210	78.296	5170.8644	5249.1600
11be80MIMO	Ant6	5290	78.508	5250.8478	5329.3560
11be80MIMO	Ant17	5290	78.397	5250.7756	5329.1726
11be80MIMO	Ant6	5530	78.63	5490.6730	5569.3029
11be80MIMO	Ant17	5530	78.425	5490.8095	5569.2340
11be80MIMO	Ant6	5610	78.478	5570.7541	5649.2318
11be80MIMO	Ant17	5610	78.346	5570.8100	5649.1562
11be80MIMO	Ant6	5690	78.696	5650.7011	5729.3971
11be80MIMO	Ant17	5690	78.453	5650.7852	5729.2383
11be80MIMO	Ant6	5690 UNII-2C	74.299	5650.7011	5725
11be80MIMO	Ant17	5690 UNII-2C	74.215	5650.7852	5725
11be80MIMO	Ant6	5690 UNII-3	4.397	5725	5729.3971
11be80MIMO	Ant17	5690 UNII-3	4.238	5725	5729.2383
11be80MIMO	Ant6	5775	78.54	5735.7265	5814.2667
11be80MIMO	Ant17	5775	78.562	5735.6946	5814.2562
11be160MIMO	Ant6	5250	158.782	5171.2129	5329.9945
11be160MIMO	Ant17	5250	158.677	5170.7456	5329.4223
11be160MIMO	Ant6	5250 UNII-1	78.787	5171.2129	5250
11be160MIMO	Ant17	5250 UNII-1	79.254	5170.7456	5250
11be160MIMO	Ant6	5250 UNII-2A	79.994	5250	5329.9945
11be160MIMO	Ant17	5250 UNII-2A	79.422	5250	5329.4223
11be160MIMO	Ant6	5570	159.341	5490.3623	5649.7038
11be160MIMO	Ant17	5570	158.731	5490.7423	5649.4730



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Report No.: SEWM2309000386RG06

Rev.: 01

Page: 59 of 497

Remark:

For 802.11n HT20/ ac VHT20/ ax HE20/ be EHT20, 802.11n HT40/ ac VHT40/ ax HE40/ be EHT40, 802.11 ac VHT80/ ax HE80/ be EHT80, 802.11 ac VHT160/ ax HE160/ be EHT160 mode, the whole testing have assessed only, 802.11be EHT20/40/80/160 by referring to their higher output power.

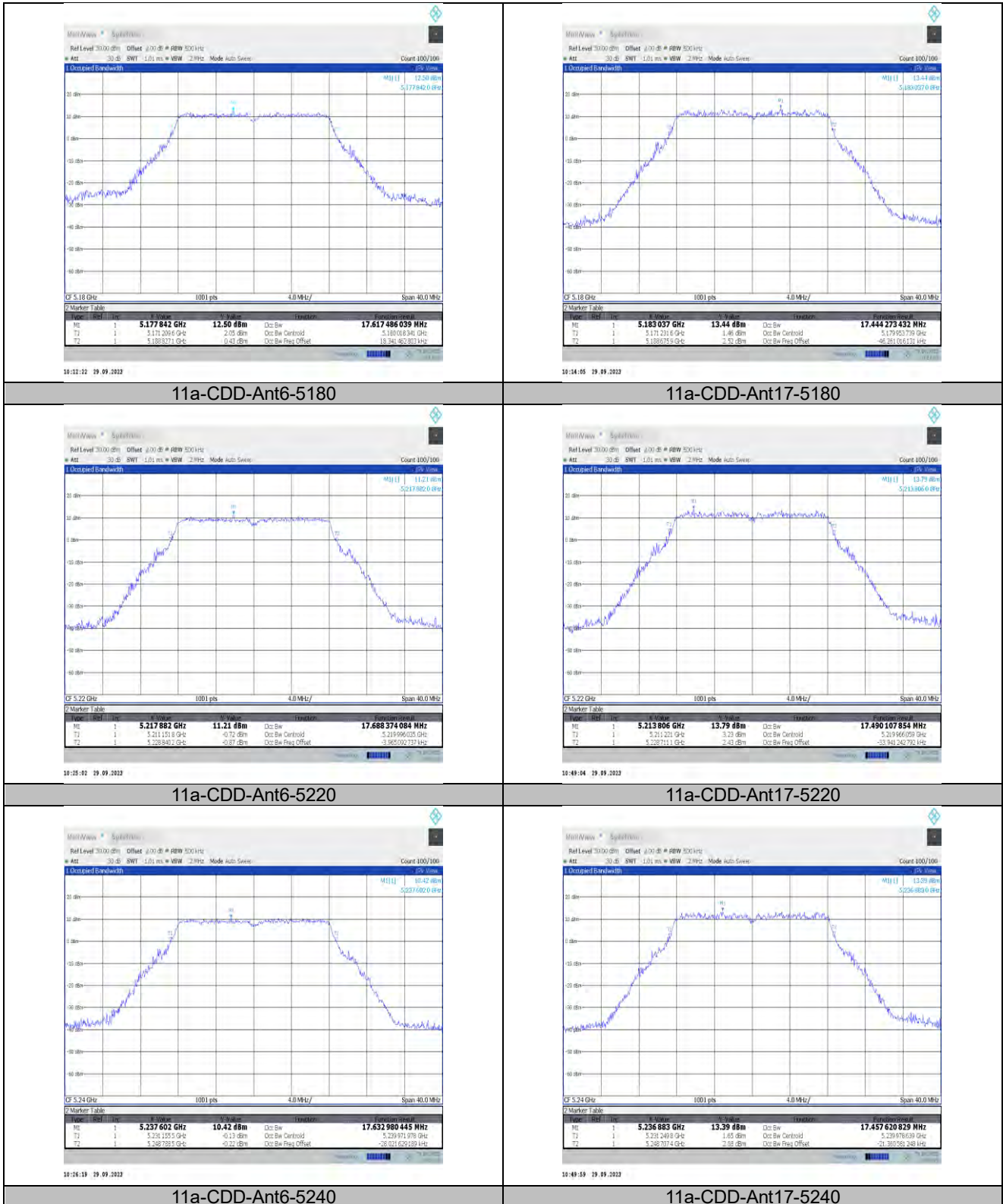


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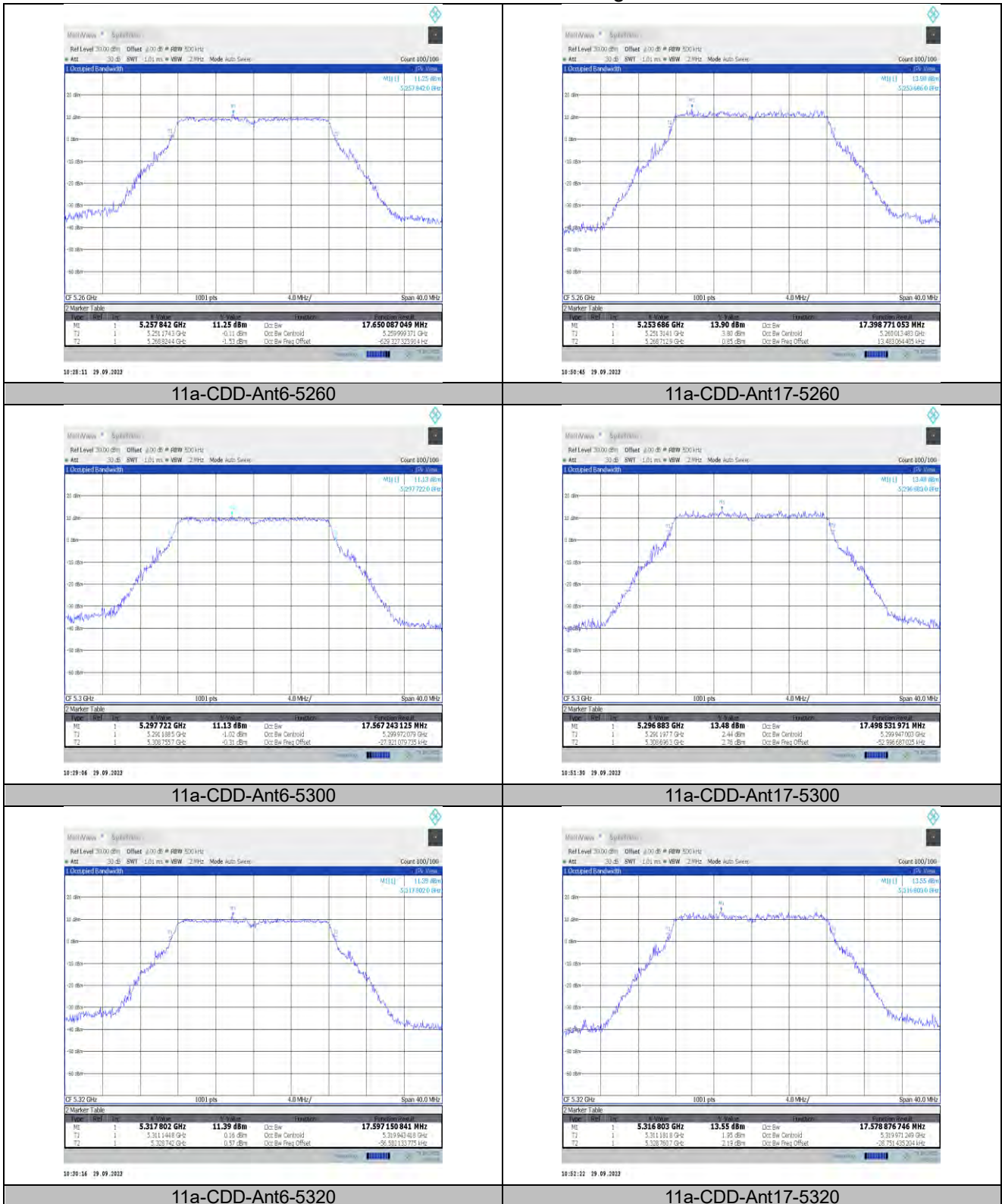
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Test Graphs



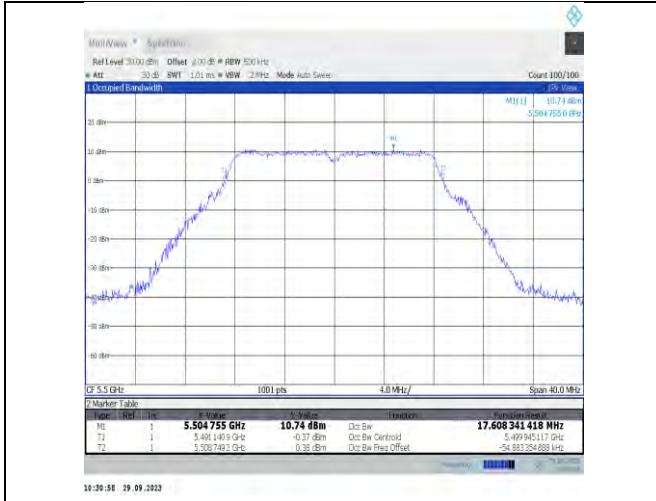
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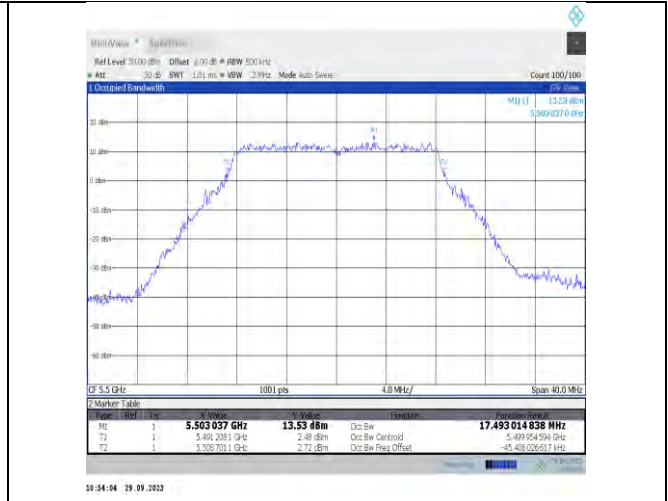


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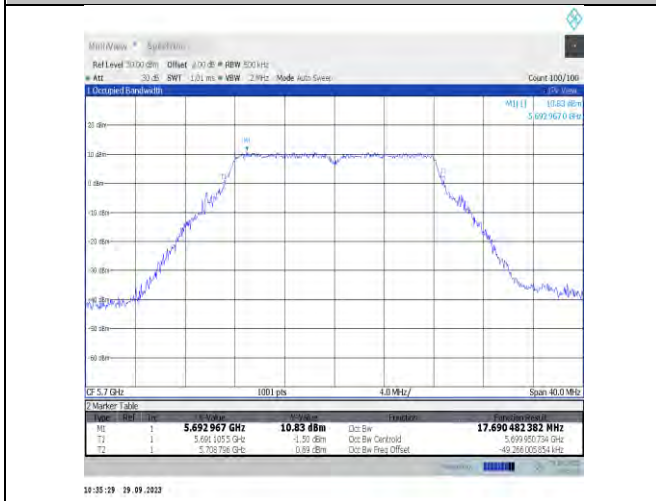
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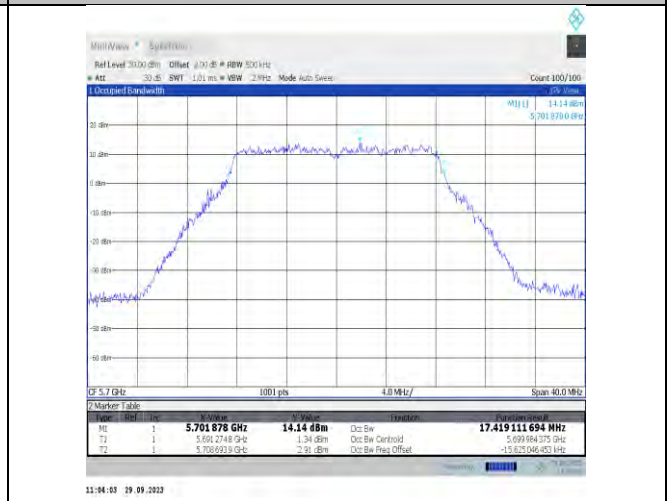
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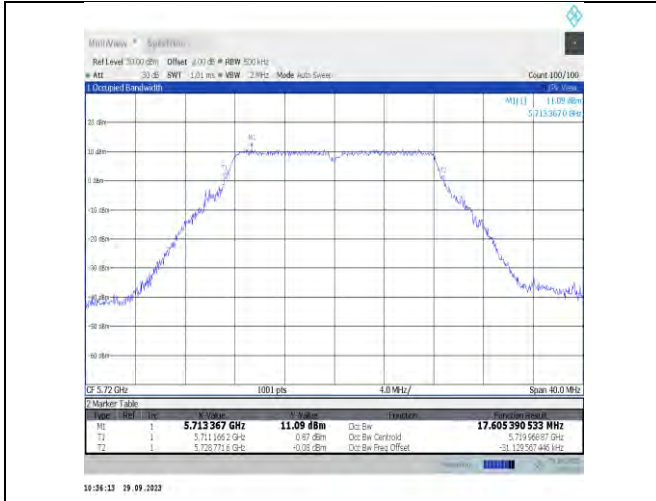


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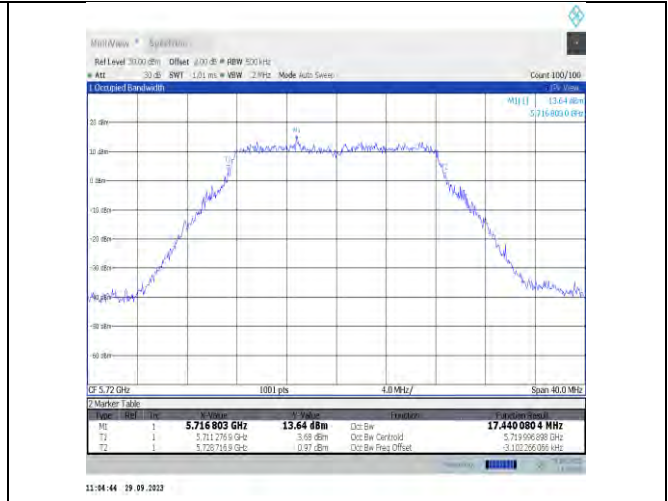


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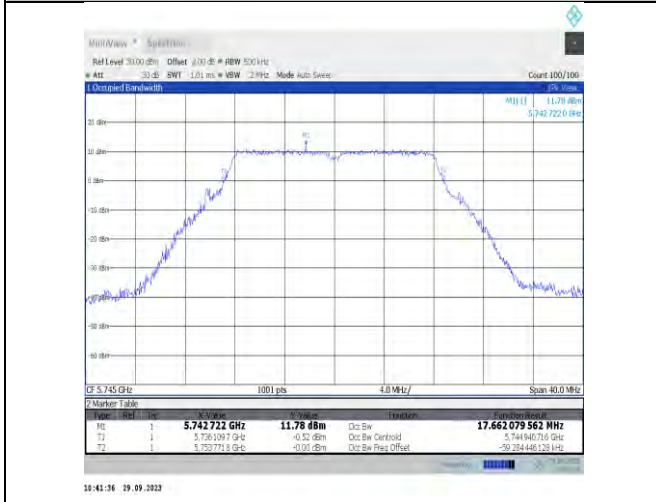
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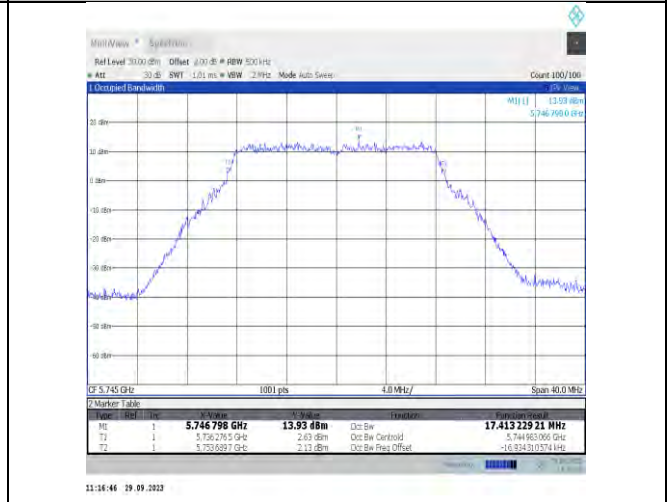
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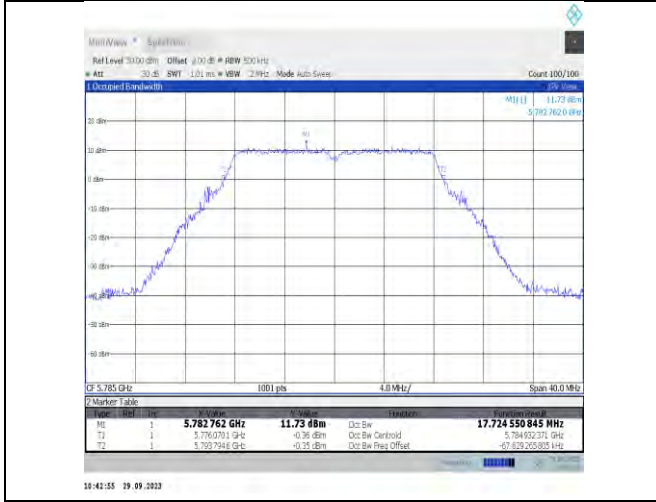
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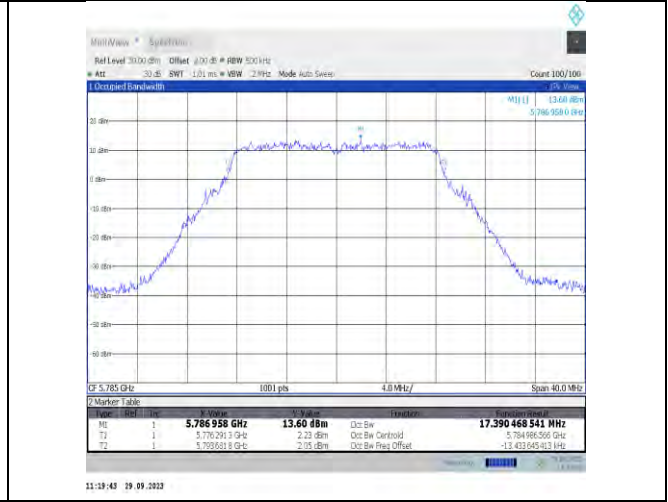
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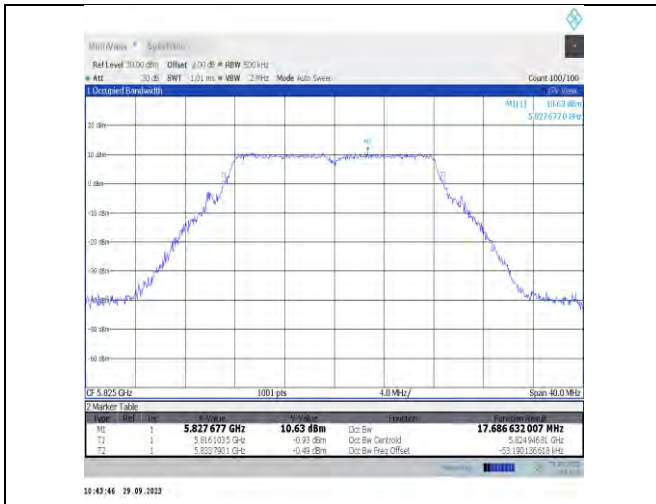


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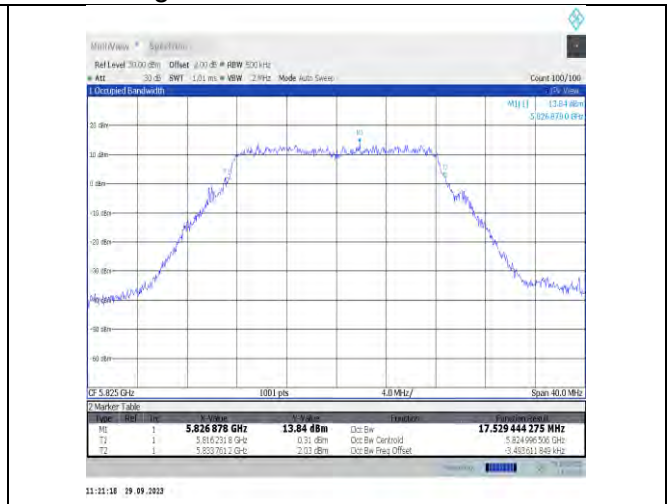


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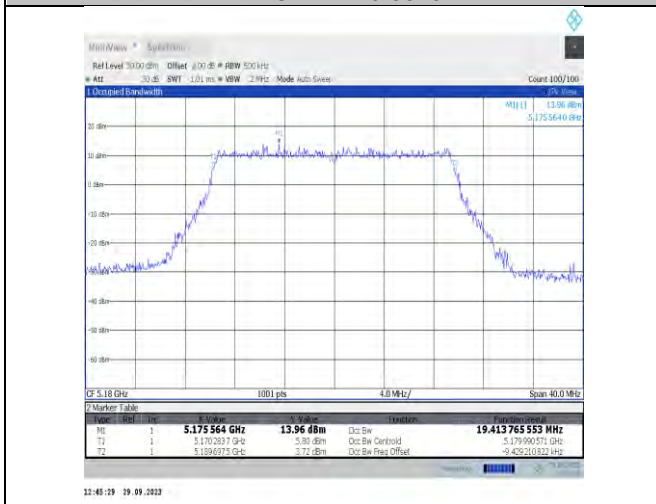
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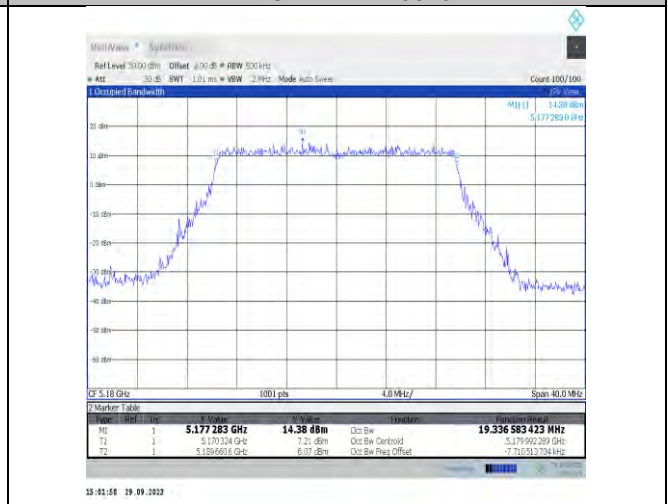
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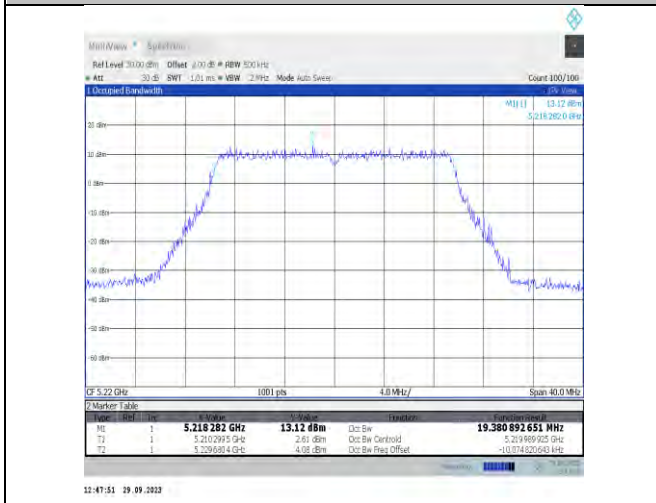
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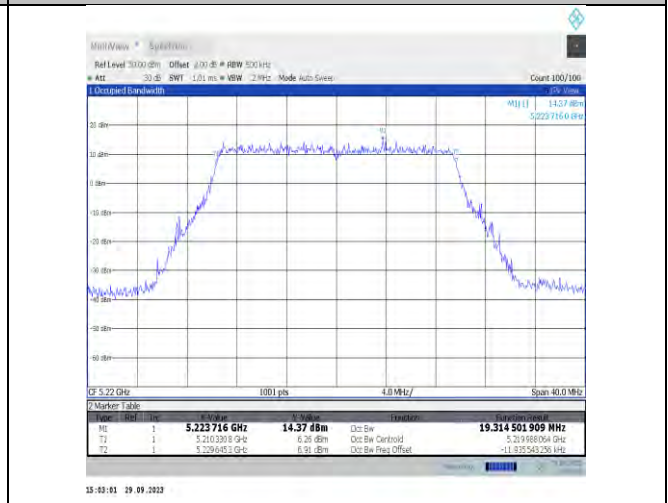
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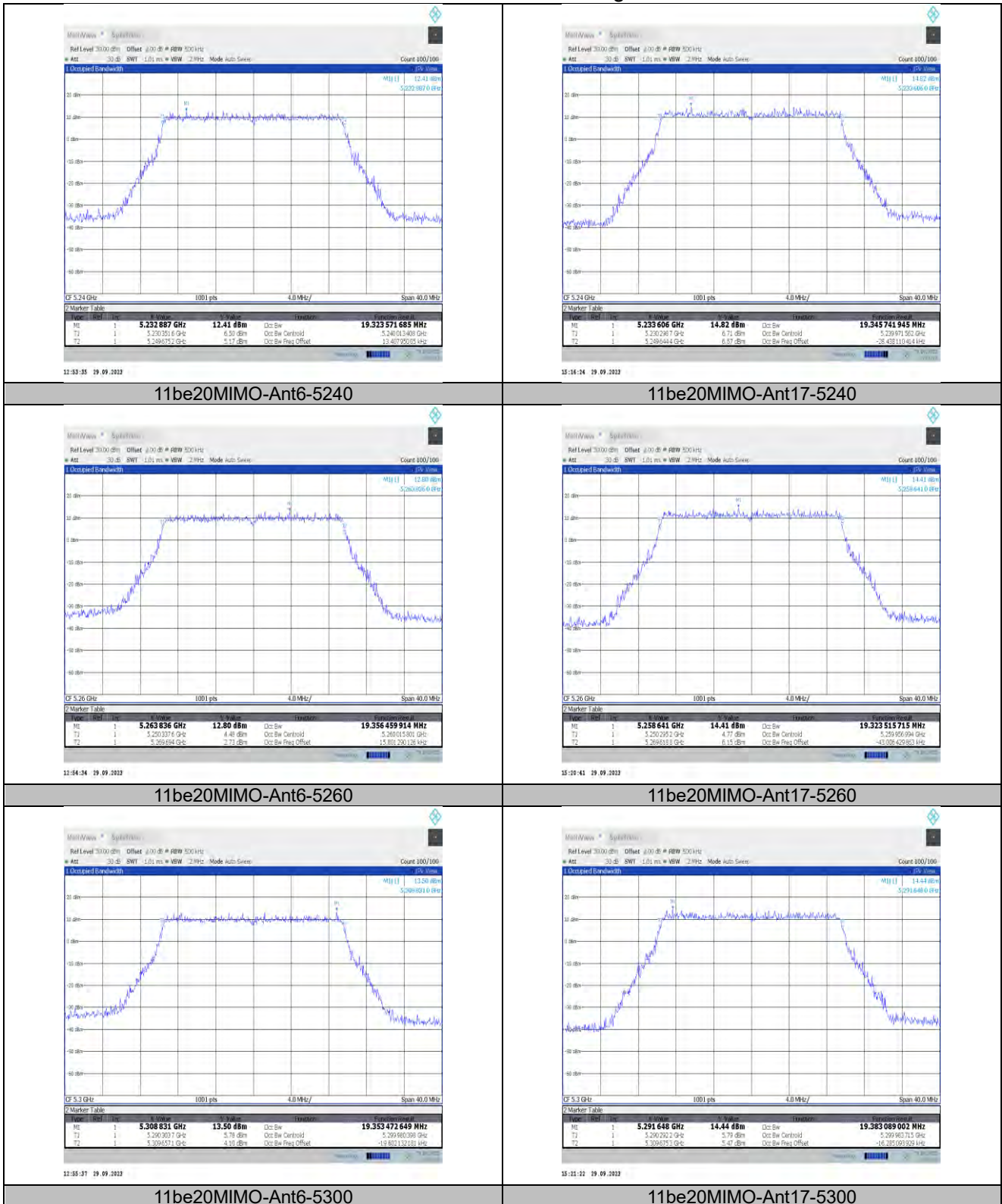


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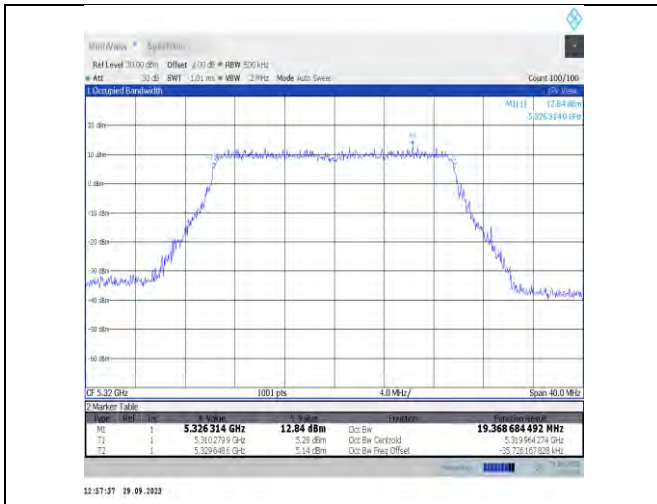
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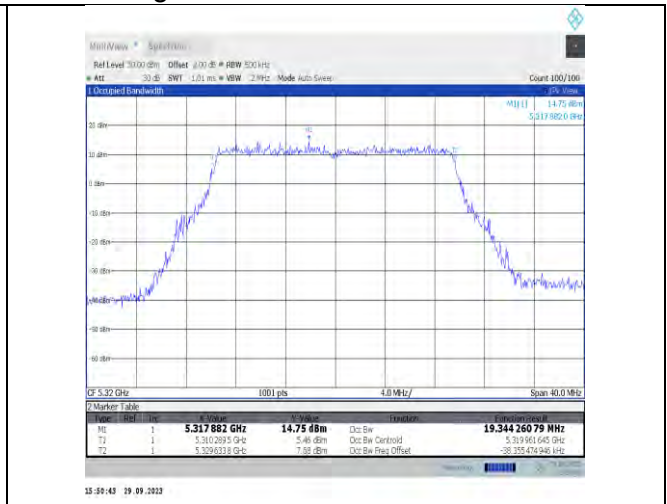


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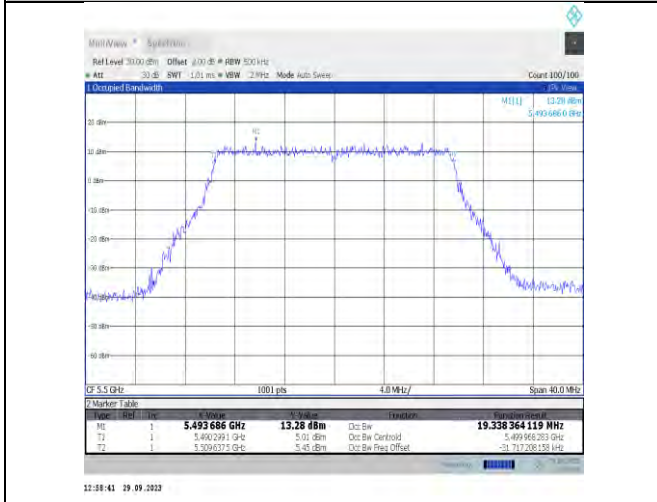
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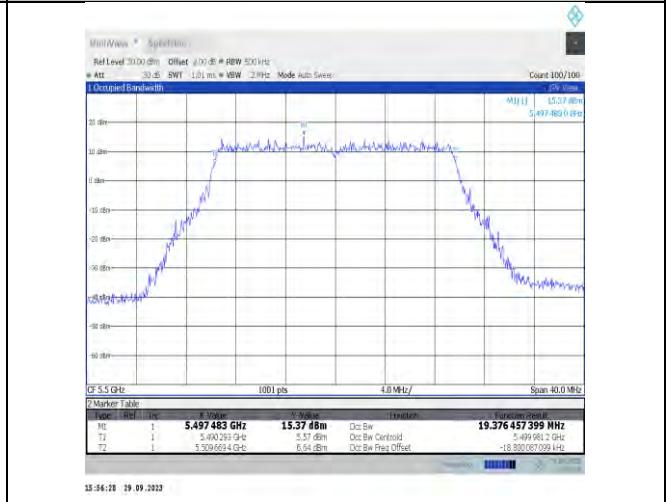
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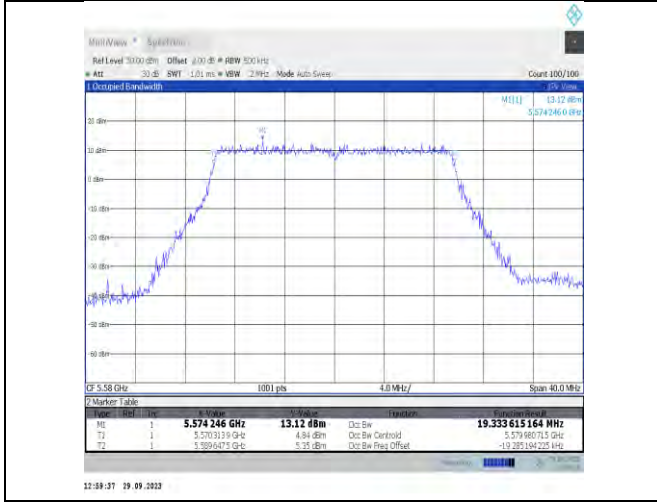
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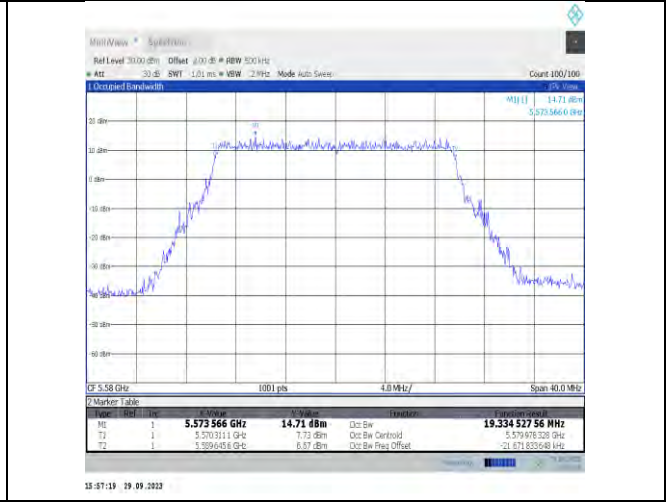
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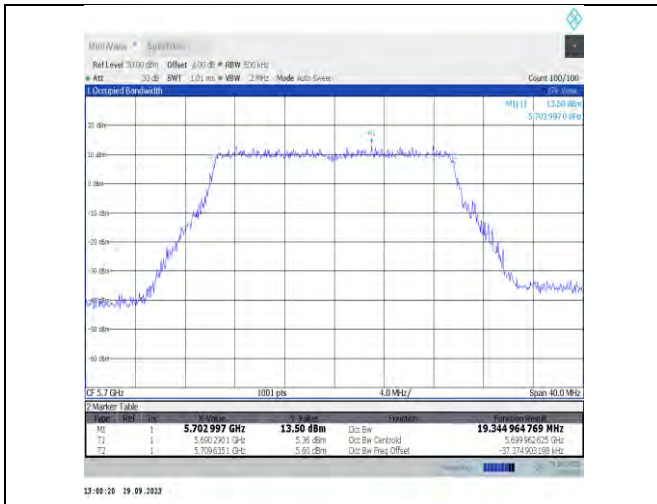


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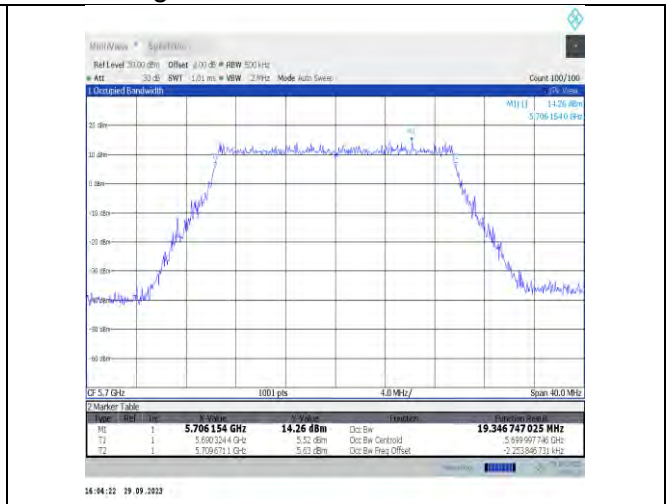


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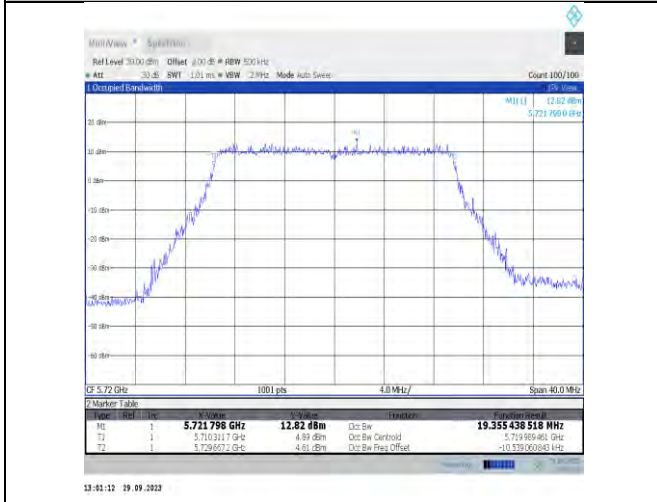
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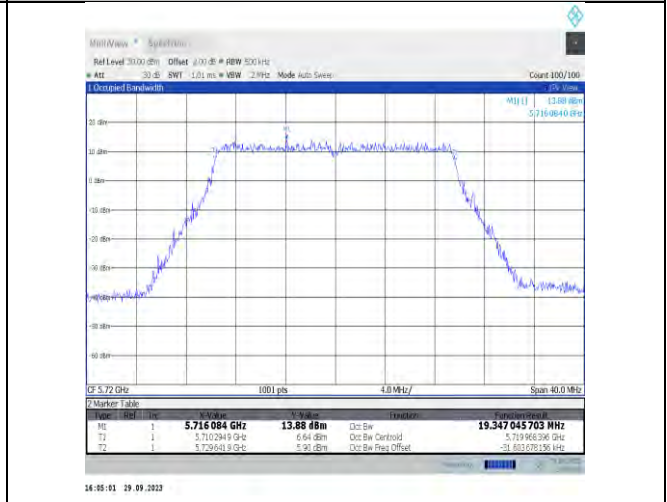
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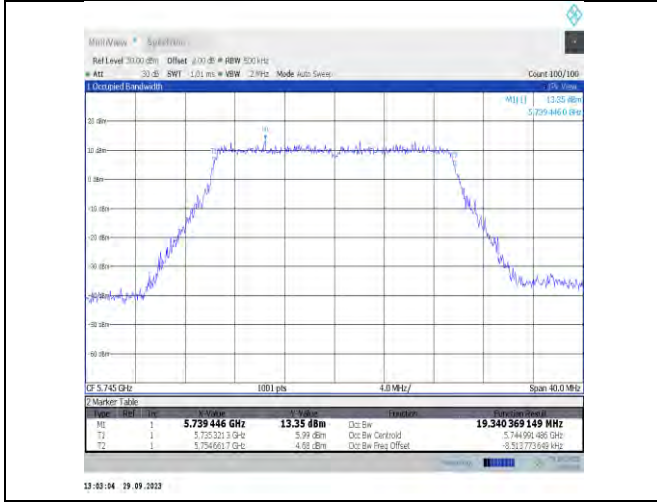
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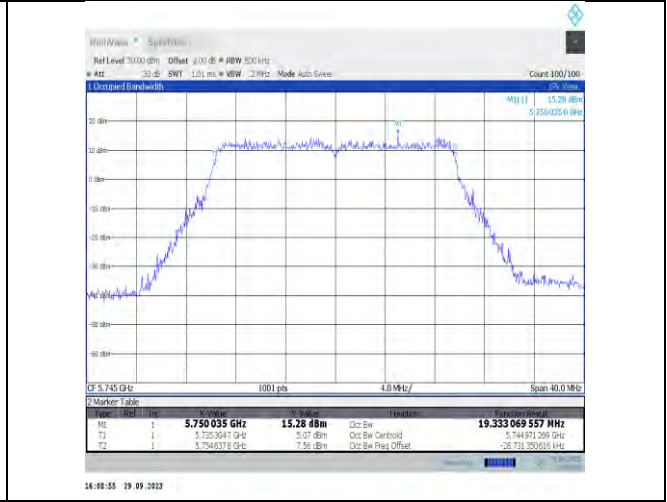
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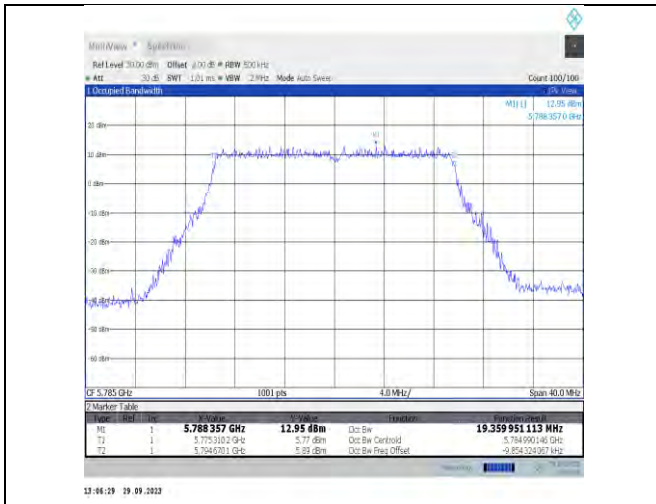
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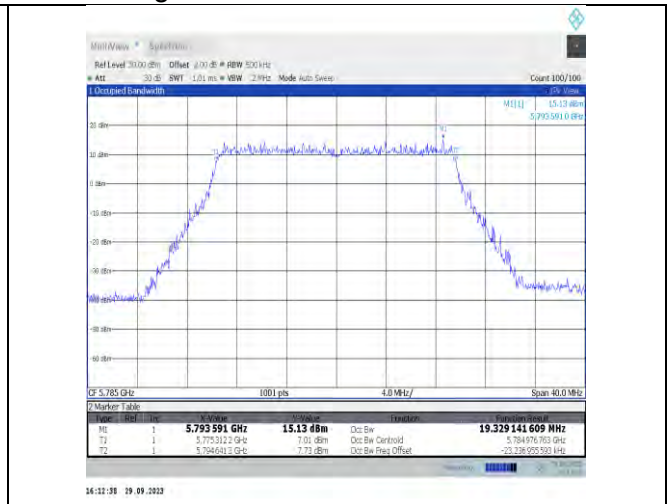
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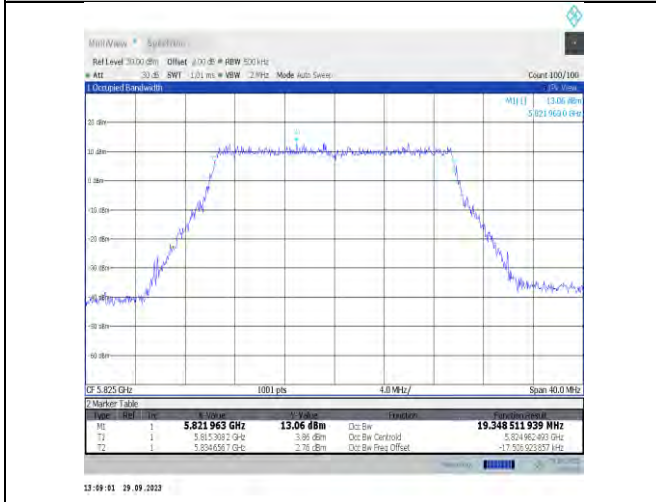
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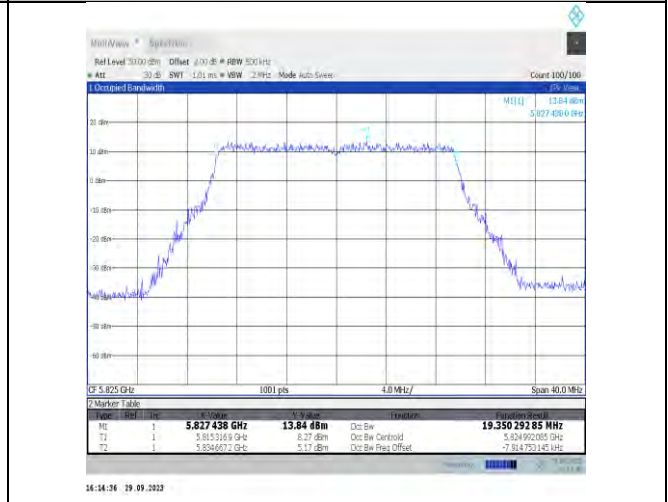
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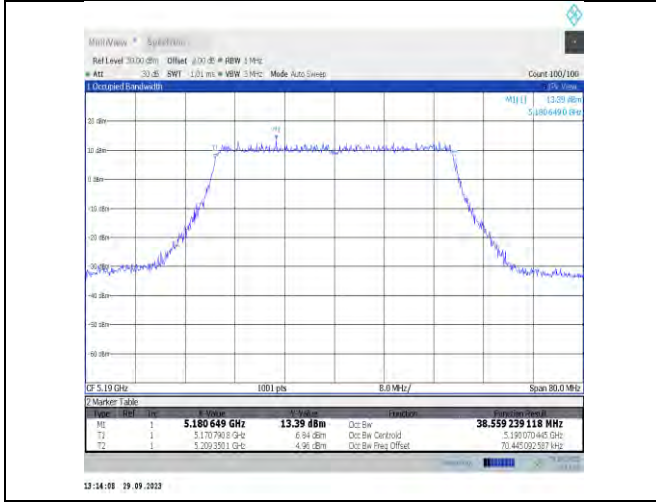
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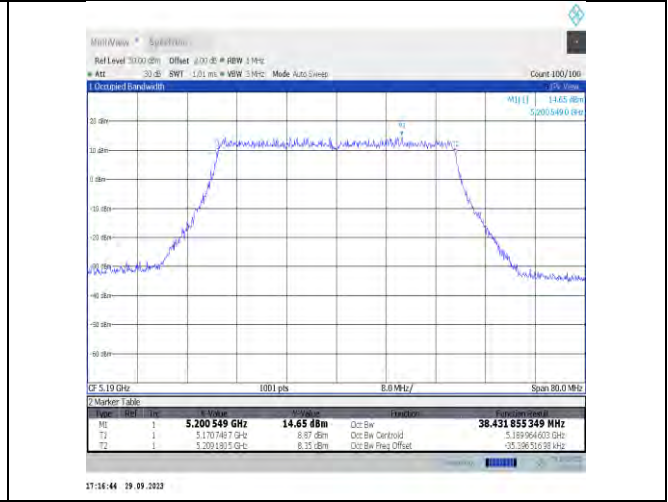
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