



Report No.: SUHR/2022/1000605

Rev.: 01

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TEST REPORT

Application No.: HR/2022/10006
Applicant: SEUIC Technologies Co., Ltd.
Address of Applicant: NO.15 Xinghuo Road, Nanjing New & High Technology Industry Development Zone, 210061, Nanjing City, Jiangsu Province, China
Manufacturer: SEUIC Technologies Co., Ltd.
Address of Manufacturer: NO.15 Xinghuo Road, Nanjing New & High Technology Industry Development Zone, 210061, Nanjing City, Jiangsu Province, China
EUT Description: Portable Data Collection Terminal
Model No.: CRUISE2 5GA
Trade Mark: CRUISE
FCC ID: 2AC68-CRUISE25GA
Standards: FCC 47 CFR Part 2, Subpart J
FCC 47 CFR Part 15, Subpart E
Date of Receipt: 2022/2/7
Date of Test: 2022/2/10 to 2022/2/28
Date of Issue: 2022/3/3

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:

Panta Sun

Panta Sun
Wireless Laboratory Manager



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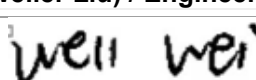
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1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022/3/3		Original

Prepared By		 _____ (Weller Liu) / Engineer
Checked By		 _____ (Well Wei) / 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	PASS
	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	PASS
	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	PASS
Maximum Conducted Output Power	Band I	15.407(a)	< 250mW	Clause 4.4	PASS
	Band II-A	15.407(a)(2)	<MIN{250mW, 11dBm+10*lg(EBW)}		
	Band II-C				
	Band III	15.407(a)(3)	< 1W		
Maximum Power Spectral Density	Band I	15.407(a)	<11dBm/MHz	Clause 4.8	PASS
	Band II-A	15.407(a)(2)	<11dBm/MHz		
	Band II-C				
	Band III	15.407(a)(3)	<30dBm/500KHz		
Unwanted Emissions that fall Out of the Restricted Bands (Radiated)	Band I	15.209 15.407(b)	F<1GHz: §15.209/§7.2.5 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/§7.2.5 limit (AV&PK).	Clause 4.9	PASS
	Band II-A	15.407(b) 15.209	F<1GHz: §15.209/§7.2.5 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/§7.2.5 limit (AV&PK).		PASS



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	Band II-C	15.407(b) 15.209	F<1GHz: §15.209/§7.2.5 limit (QP). F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.47-5.725 GHz). F≥1GHz & in-restricted: §15.209/§7.2.5 limit (AV&PK).		PASS
	Band III	15.407(b) 15.209	F<1GHz: §15.209/§7.2.5 limit (QP) F≥1GHz & out-restricted:(QP) a) 27 dBm/MHz at frequencies from the band edges decreasing linearly to 15.6 dBm/MHz at 5 MHz above or below the band edges; b) 15.6 dBm/MHz at 5 MHz above or below the band edges decreasing linearly to 10 dBm/MHz at 25 MHz above or below the band edges; c) 10 dBm/MHz at 25 MHz above or below the band edges decreasing linearly to -27 dBm/MHz at 75 MHz above or below the band edges; and d) -27 dBm/MHz at frequencies more than 75 MHz above or below the band edges. F≥1GHz & in-restricted: §15.209/§7.2.5 limit (AV&PK).		PASS
Unwanted Emissions in the Restricted Bands (Radiated)	Band I Band II-A Band II-C Band III	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
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
Dynamic Frequency Selection	Band II-A Band II-C	47 CFR Part 15, Subpart E 15.407	Channel Move Time:10 Seconds	Refer to report KSCR220 200022901	PASS
Note 1:					



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Band I: 5150-5250MHz
Band II-A: 5250-5350MHz
Band II-C: 5470-5725MHz
Band III: 5725-5850MHz



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3 General Information

3.1 Details of Client

Applicant:	SEUIC Technologies Co., Ltd.
Address of Applicant:	NO.15 Xinghuo Road,Nanjing New & High Technology Industry Development Zone,210061,Nanjing City,Jiangsu Province,China
Manufacturer:	SEUIC Technologies Co., Ltd.
Address of Manufacturer:	NO.15 Xinghuo Road,Nanjing New & High Technology Industry Development Zone,210061,Nanjing City,Jiangsu Province,China

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:	Weller Liu, King-p Li, Nature Shen, Tizzy Song

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:	Portable Data Collection Terminal
Model No.:	CRUISE2 5GA
Trade Mark:	CRUISE
Hardware Version:	MC902A-4A_MB_PCBA_V1.01-A4A
Software Version:	D740_V1.0.76
IEEE 802.11 WLAN Mode Supported:	☒ 802.11a (20 MHz channel bandwidth); ☒ 802.11n (20 MHz channel bandwidth); ☒ 802.11n (40 MHz channel bandwidth); ☒ 802.11ac (20 MHz channel bandwidth); ☒ 802.11ac (40 MHz channel bandwidth); ☒ 802.11ac (80 MHz channel bandwidth);
Operation Frequency:	IEEE 802.11 a/n(HT20/40)/ac(VHT20/40/80): 5150MHz to 5250MHz IEEE 802.11 a/n(HT20/40)/ac(VHT20/40/80): 5250MHz to 5350MHz IEEE 802.11 a/n(HT20/40)/ac(VHT20/40/80): 5470MHz to 5725MHz IEEE 802.11 a/n(HT20/40)/ac(VHT20/40/80): 5725MHz to 5850MHz
Type of Modulation:	OFDM
Sample Type:	☒ Portable Device, ☐ Module
Antenna Type:	☐ External, ☒ Integrated
Smart System:	☒ SISO (for 802.11a/n/ac), ☒ MIMO (for 802.11a/n/ac), ☐ Diversity (for 802.11a).
Antenna Gain*:	☒ Provided by client
	5150MHz to 5250MHz :2dBi(ANT3); 1dBi(ANT2); 5250MHz to 5350MHz: 2dBi(ANT3); 1.5dBi(ANT2); 5470MHz to 5725MHz: 1.5dBi(ANT3); 1.5dBi(ANT2); 5725MHz to 5850MHz: 1dBi(ANT3); 0.5dBi(ANT2);
RF Cable*:	☒ Provided by client
	2dB
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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 of Operation Operating Frequency Range (in each Band)	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 20MHz	The Lowest channel	5180
	The Middle channel	5200
	The Highest channel	5240
IEEE 802.11n/ac 40MHz	The Lowest channel	5190
	The Highest channel	5230
IEEE 802.11ac 80MHz	The Middle channel	5210

For UNII Band II-A:

Mode	Channel	Frequency(MHz)
IEEE 802.11a/n/ac 20MHz	The Lowest channel	5260
	The Middle channel	5280
	The Highest channel	5320
IEEE 802.11n/ac 40MHz	The Lowest channel	5270
	The Highest channel	5310
IEEE 802.11ac 80MHz	The Middle channel	5290



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For UNII Band II-C:		
Mode	Channel	Frequency(MHz)
IEEE 802.11a/n/ac 20MHz	The Lowest channel	5500
	The Middle channel	5580
	The Highest channel	5700
IEEE 802.11n/ac 40MHz	The Lowest channel	5510
	The Middle channel	5550
	The Highest channel	5670
IEEE 802.11ac 80MHz	The Lowest channel	5530
	The Highest channel	5610

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



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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(℃)	Voltage(V)
NTNV	22~23	3.85
LTVN	-20	3.85
HTNV	50	3.85
Remark: NV: Normal Voltage NT: Normal Temperature LT: Low Extreme Test Temperature HT: High Extreme Test Temperature		

3.6 Description of Support Units

The EUT has been tested independent unit.



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4 Test results and Measurement Data

4.1 Antenna Requirement

Standard requirement:	47 CFR Part 15 Section 15.203
The antenna is integrated antenna and no consideration of replacement. The best case gain of the antenna is 5150MHz to 5250MHz :2dBi(ANT3); 5250MHz to 5350MHz: 2dBi(ANT3); 5470MHz to 5725MHz: 1.5dBi(ANT3); 5725MHz to 5850MHz: 1dBi(ANT3).	



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4.2 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15 Section 15.407(b)		
Test Method:	ANSI C63.10: 2013		
Test Frequency Range:	150kHz to 30MHz		
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:	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: 2013 on conducted measurement.		



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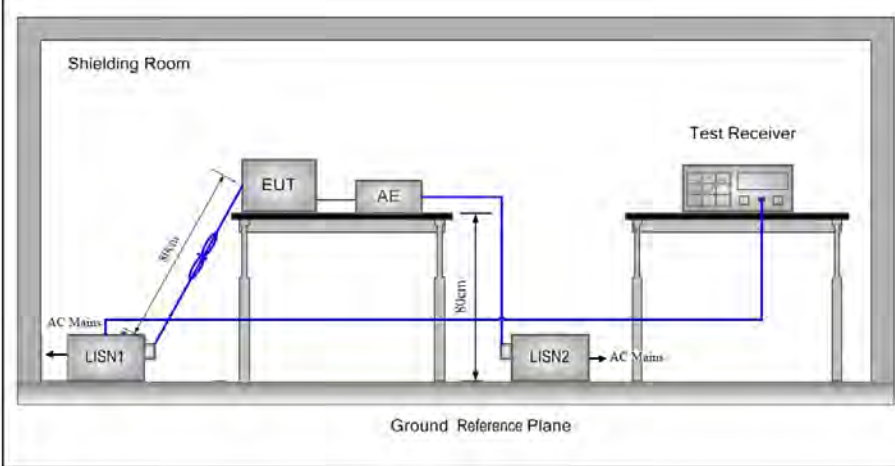
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Test Setup:	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates at lowest, middle and highest channel.
Final Test Mode:	Through Pre-scan, find the 6Mbps of rate of 802.11a at lowest channel is the worst case. Only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details
Test Results:	Pass



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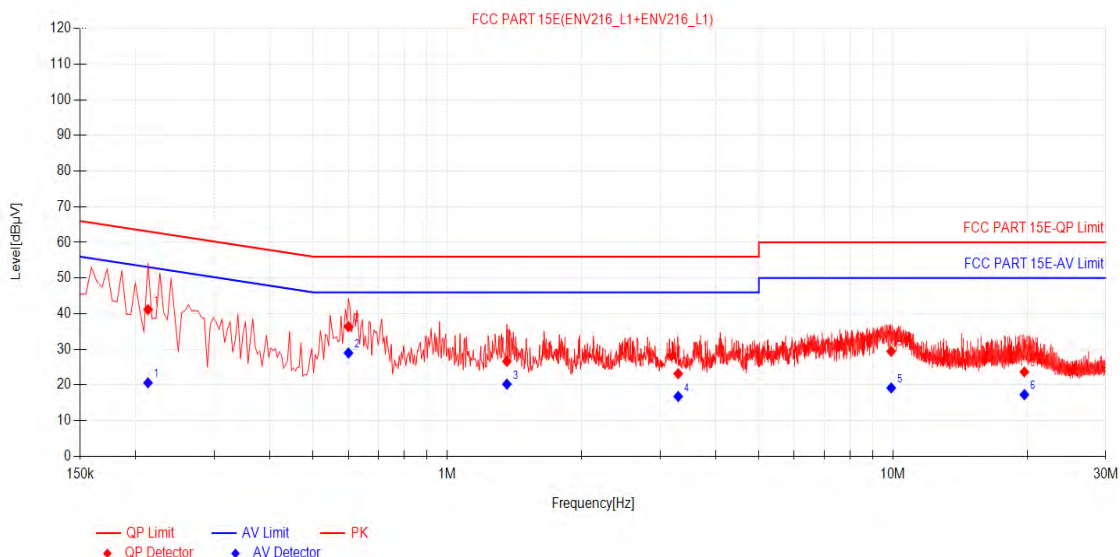
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Measurement Data

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.

Live Line:



Final Data List

NO.	Frequency [MHz]	Factor [dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.2130	10.81	41.16	63.09	21.93	20.61	53.09	32.48	PASS
2	0.6000	10.50	36.37	56.00	19.63	28.99	46.00	17.01	PASS
3	1.3605	10.79	26.65	56.00	29.35	20.25	46.00	25.75	PASS
4	3.2955	10.68	23.18	56.00	32.82	16.78	46.00	29.22	PASS
5	9.9060	10.64	29.44	60.00	30.56	19.18	50.00	30.82	PASS
6	19.7115	10.43	23.67	60.00	36.33	17.29	50.00	32.71	PASS

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Reading + Factor (Lisn factor + cable loss).



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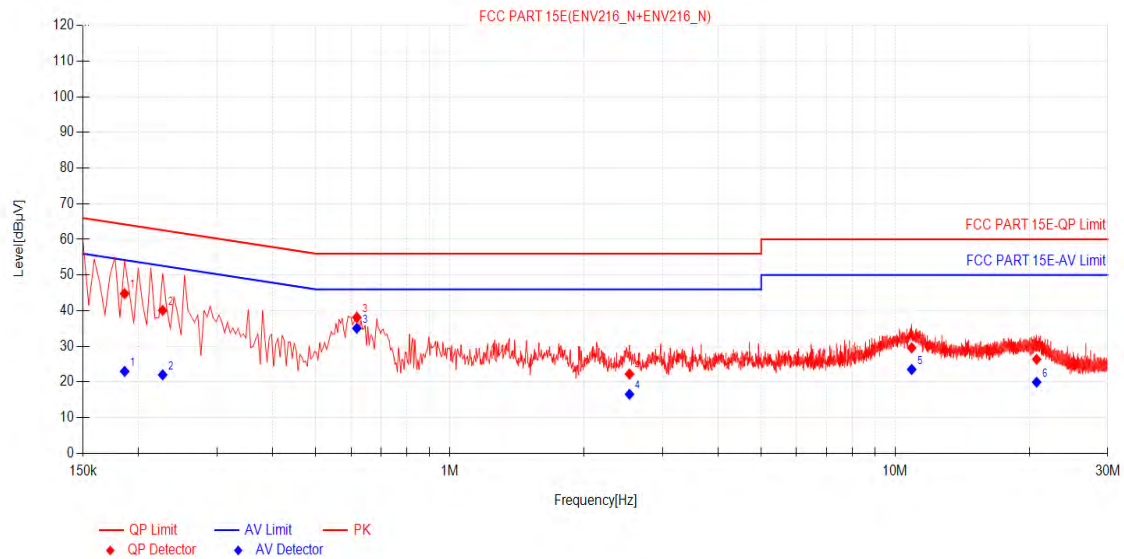
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Neutral Line:



Final Data List

NO.	Frequency [MHz]	Factor [dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.1860	10.68	44.79	64.21	19.42	22.98	54.21	31.23	PASS
2	0.2265	10.70	40.09	62.58	22.49	22.01	52.58	30.57	PASS
3	0.6180	10.70	38.09	56.00	17.91	35.06	46.00	10.94	PASS
4	2.5305	10.77	22.23	56.00	33.77	16.55	46.00	29.45	PASS
5	10.8870	10.66	29.60	60.00	30.40	23.52	50.00	26.48	PASS
6	20.7735	10.41	26.37	60.00	33.63	19.96	50.00	30.04	PASS

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Reading + Factor(Lin factor + cable loss).



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4.3 Duty Cycle

The detailed test data see: **Appendix**



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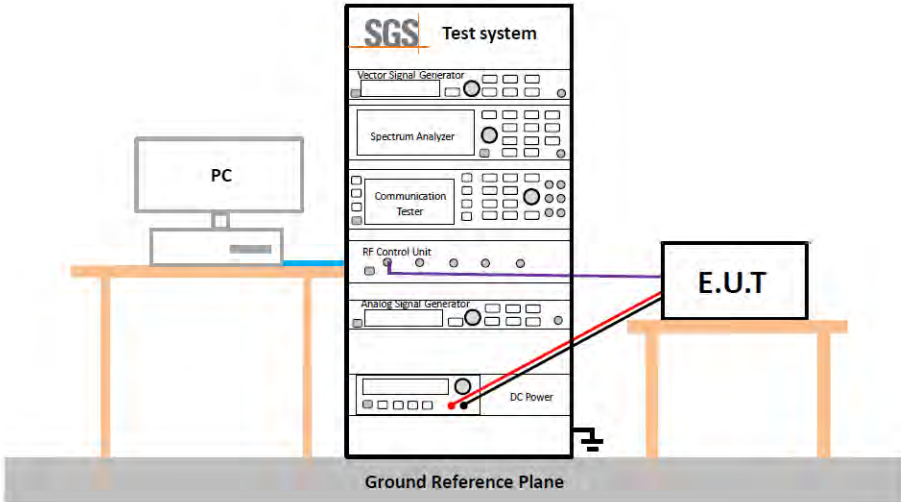
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4.4 Conducted Output Power

Test Requirement:	47 CFR Part 15 Section 15.407(a)	
Test Method:	ANSI C63.10 :2013	
Test Setup:		
Test Instruments:	Refer to section 6 for details	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates	
Final Test Mode:	Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20) ; MCS0 of rate is the worst case of 802.11n(HT40); MCS0 of rate is the worst case of 802.11ac(VHT20). MCS0 of rate is the worst case of 802.11ac(VHT40). MCS0 of rate is the worst case of 802.11ac(VHT80). Only the worst case is recorded in the report.	
Limit:	Frequency Band	Limit
	5150-5250MHz	Not exceed 250mW(24dBm)
	5250-5350MHz	The lesser of 250mW(24dBm) or 11+ 10logB
	5470-5725MHz	The lesser of 250mW(24dBm) 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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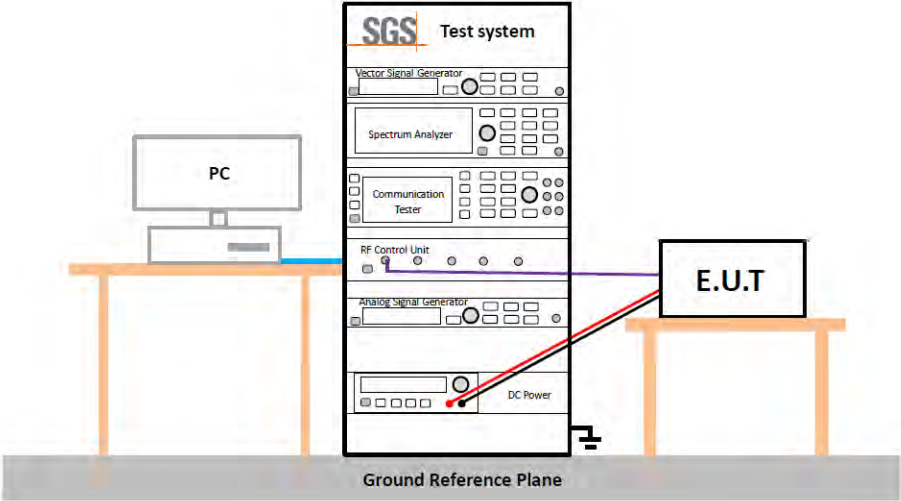
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4.5 26dB Emission Bandwidth

Test Requirement:	47 CFR Part 15 Section 15.407(a), KDB 789033 D02& C
Test Method:	ANSI C63.10: 2013
Test Setup:	
Instruments Used:	Refer to section 6 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20) ; MCS0 of rate is the worst case of 802.11n(HT40); MCS0 of rate is the worst case of 802.11ac(VHT20). MCS0 of rate is the worst case of 802.11ac(VHT40). MCS0 of rate is the worst case of 802.11ac(VHT80). Only the worst case is recorded in the report.
Limit:	No restriction limits
Test Results:	Pass
The detailed test data see: Appendix	



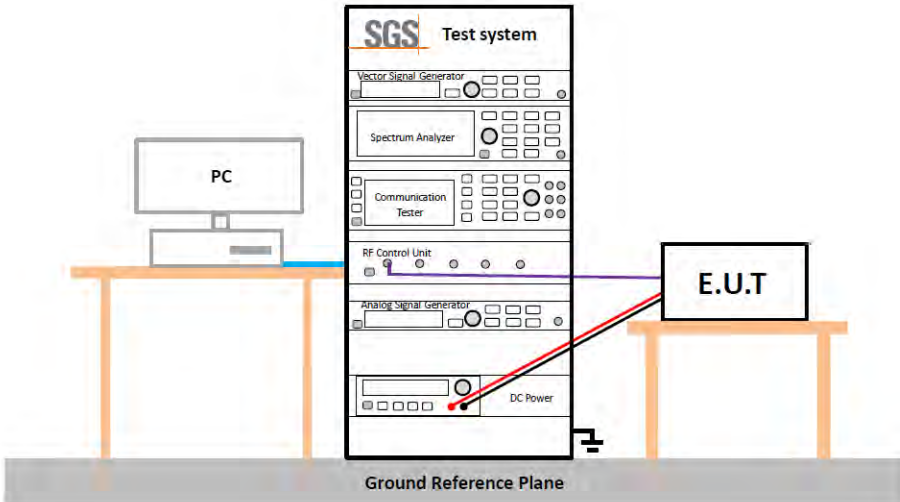
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4.6 6dB Emission Bandwidth

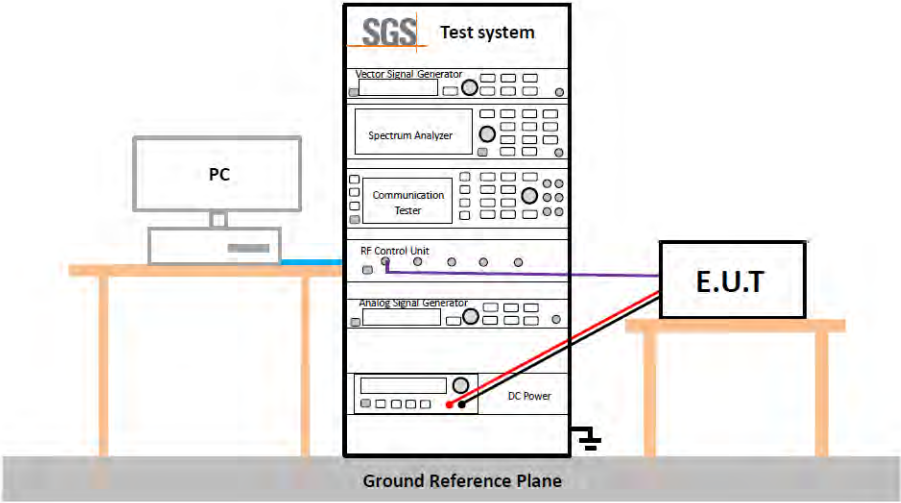
Test Requirement:	47 CFR Part 15 Section 15.407(e)	
Test Method:	ANSI C63.10: 2013	
Test Setup:		
Test Instruments:	Refer to section 6 for details	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates	
Final Test Mode:	Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20) ; MCS0 of rate is the worst case of 802.11n(HT40); MCS0 of rate is the worst case of 802.11ac(VHT20). MCS0 of rate is the worst case of 802.11ac(VHT40). MCS0 of rate is the worst case of 802.11ac(VHT80). Only the worst case is recorded in the report.	
Limit:	Frequency Band	Limit
	5725-5850MHz	At lease 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: 2013
Test Setup:	
Instruments Used:	Refer to section 6 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20) ; MCS0 of rate is the worst case of 802.11n(HT40); MCS0 of rate is the worst case of 802.11ac(VHT20). MCS0 of rate is the worst case of 802.11ac(VHT40). MCS0 of rate is the worst case of 802.11ac(VHT80). Only the worst case is recorded in the report.
Limit:	No restriction limits
Test Results:	Pass
The detailed test data see: Appendix	



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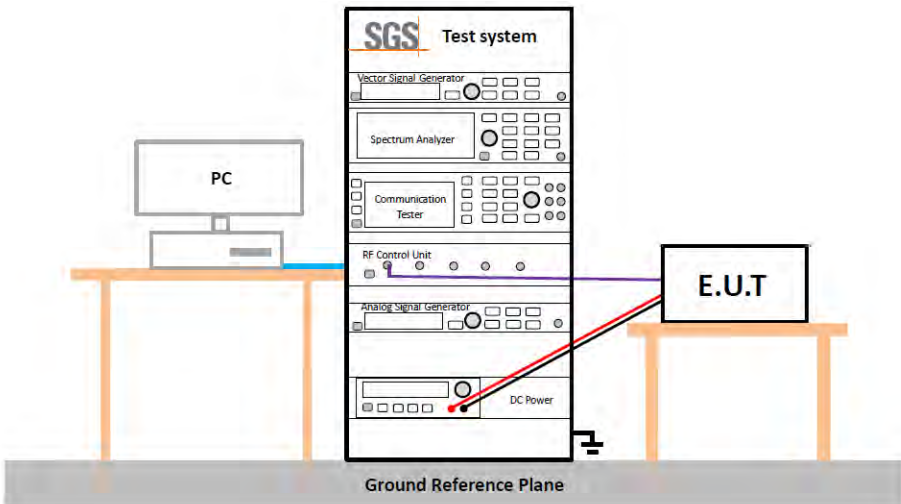
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4.8 Power Spectral Density

Test Requirement:	47 CFR Part 15 Section 15.407(a)	
Test Method:	ANSI C63.10: 2013 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:	Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20) ; MCS0 of rate is the worst case of 802.11n(HT40); MCS0 of rate is the worst case of 802.11ac(VHT20). MCS0 of rate is the worst case of 802.11ac(VHT40). MCS0 of rate is the worst case of 802.11ac(VHT80). Only the worst case is recorded in the report.	
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 and 15.209
Test Method:	ANSI C63.10: 2013
Test Site:	Measurement Distance: 3m or 10m (Semi-Anechoic Chamber)

Test Setup:

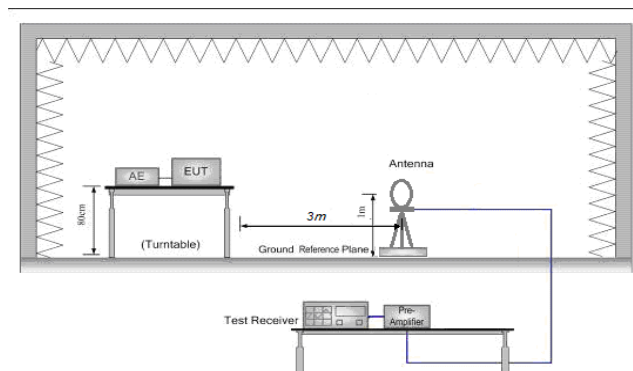


Figure 1. 9kHz to 30MHz

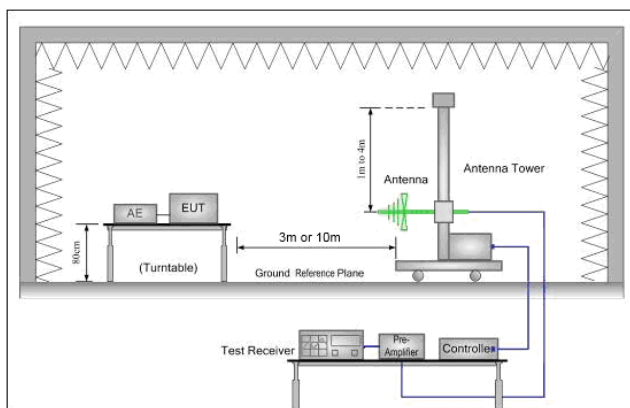


Figure 1. 30MHz to 1GHz

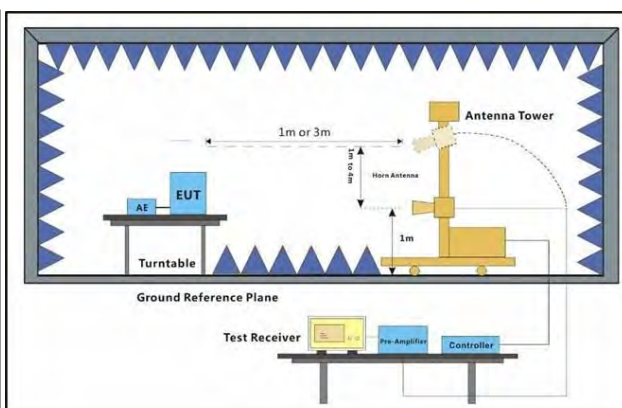


Figure 2. Above 1 GHz

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.
- 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.
- 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

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	maximum reading. f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. g. Test the EUT in the outermost channels. 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. i. Repeat above procedures until all frequencies measured was complete. 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 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. l. Value = Reading + Factor(Antenna Factor + Cable loss – Preamplifier Factor).
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.
Final Test Mode:	Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20) ; MCS0 of rate is the worst case of 802.11n(HT40); MCS0 of rate is the worst case of 802.11ac(VHT20). MCS0 of rate is the worst case of 802.11ac(VHT40). MCS0 of rate is the worst case of 802.11ac(VHT80). For below 1GHz, through Pre-scan, find the 1Mbps of rate of 802.11a at lowest channel is the worst case. Only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details
Test Results:	Pass
The detailed test data see: Appendix	



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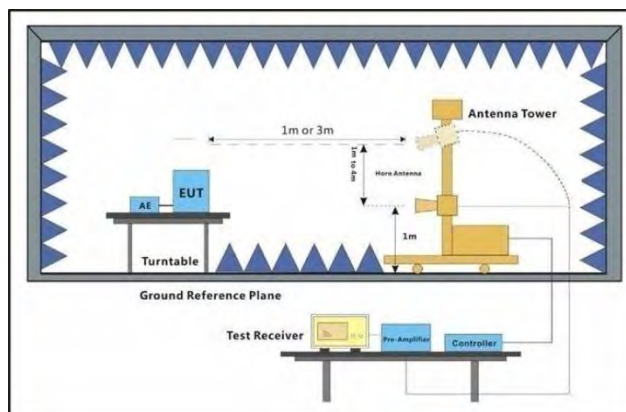
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4.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15 Section 15.407(b)		
Test Method:	ANSI C63.10: 2013		
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	54.0	Average Value
		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. j. Value = Reading + Factor(Antenna Factor + Cable loss).
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.
Final Test Mode:	Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20) ; MCS0 of rate is the worst case of 802.11n(HT40); MCS0 of rate is the worst case of 802.11ac(VHT20). MCS0 of rate is the worst case of 802.11ac(VHT40). MCS0 of rate is the worst case of 802.11ac(VHT80). Only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details
Test Results:	Pass
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	$\pm 0.54\text{dB}$
2	RF power density, conducted	$\pm 1.03\text{dB}$
3	Spurious emissions, conducted	$\pm 0.54\text{dB}$
4	Radio Frequency	$\pm 7.25 \times 10^{-8}$
5	Duty Cycle	$\pm 0.37\%$
6	Occupied Bandwidth	$\pm 7.25 \times 10^{-8}$
7	Conduction Emission	$\pm 2.9\text{dB}$ (150kHz to 30MHz)
8	Radiated Emission	$\pm 3.13\text{dB}$ (9kHz - 30MHz)
		$\pm 4.8\text{dB}$ (30MHz - 1GHz)
		$\pm 4.8\text{dB}$ (1GHz to 18GHz)
		$\pm 4.8\text{dB}$ (Above 18GHz)



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6 Equipment List

Tonscend Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal.Due date
				(yyyy-mm-dd)	(yyyy-mm-dd)
Shielding Room	Brilliant-emc	N/A	SUWI-04-01-06	2021/5/8	2024/5/7
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2021/2/20	2022/2/19
				2022/2/16	2023/2/15
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2021/5/28	2022/5/27
Signal Analyzer	ROHDE&SCHWARZ	FSV3030	SUWI-01-02-02	2021/5/28	2022/5/27
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2021/2/20	2022/2/19
				2022/2/15	2023/2/14
Measurement Software	Tonscend	JS1120-3 Test System	SUWI-02-09-09	NCR	NCR
		V 2.6.88.0336			
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-05	2021/12/4	2022/12/3
Power Meter	Anritsu	ML2495A	SUWI-01-31-01	2021/12/4	2022/12/3
Pulse power Sensor	Anritsu	MA2411B	SUWI-01-32-01	2021/12/4	2022/12/3

CE Test Equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	Brilliant-emc	N/A	SUWI-04-03-01	2021/5/8	2024/5/7
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-01	2021/2/20	2022/2/19
				2022/2/19	2023/2/18
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-02	2021/2/20	2022/2/19
				2022/2/19	2023/2/18
Measurement Software	Tonscend	JS32-CE V4.0.0.2	SUWI-02-09-05	NCR	NCR
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2021/2/20	2022/2/19
				2022/2/19	2023/2/18
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2021/2/20	2022/2/19
				2022/2/16	2023/2/15



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RSE Test Equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	2021/5/8	2024/5/7
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2021/2/20	2022/2/19
				2022/2/16	2023/2/15
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2021/5/28	2022/5/27
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2021/2/20	2022/2/19
				2022/2/19	2023/2/18
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9163	SUWI-01-11-01	2021/5/16	2022/5/15
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2021/5/16	2022/5/15
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/5/14	2022/5/13
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2021/2/20	2022/2/19
				2022/2/15	2023/2/14
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2021/2/20	2022/2/19
				2022/2/15	2023/2/14
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2021/2/20	2022/2/19
				2022/2/19	2023/2/18
Active Loop Antenna	SCHWRZBECK MESS-ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/6/10	2022/6/9
Measurement Software	Tonscend	JS32-RE V3.0.0.3	SUWI-02-09-04	NCR	NCR



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7 Photographs - Setup Photos

Refer to Appendix A.2 WLAN Setup Photos.



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Appendix



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Emission Bandwidth

Test Result

TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11a-CDD	Ant3	5180	21.48	5169.12	5190.60	---	---
	Ant2	5180	22.56	5168.80	5191.36	---	---
	Ant3	5220	21.96	5209.00	5230.96	---	---
	Ant2	5220	23.12	5208.36	5231.48	---	---
	Ant3	5240	21.96	5228.96	5250.92	---	---
	Ant2	5240	21.80	5229.20	5251.00	---	---
	Ant3	5260	20.80	5249.88	5270.68	---	---
	Ant2	5260	21.56	5249.12	5270.68	---	---
	Ant3	5300	22.24	5289.00	5311.24	---	---
	Ant2	5300	21.32	5289.36	5310.68	---	---
	Ant3	5320	22.08	5309.24	5331.32	---	---
	Ant2	5320	21.24	5309.72	5330.96	---	---
	Ant3	5500	22.04	5489.56	5511.60	---	---
	Ant2	5500	22.08	5488.96	5511.04	---	---
	Ant3	5580	21.72	5569.32	5591.04	---	---
	Ant2	5580	21.64	5569.16	5590.80	---	---
	Ant3	5700	22.12	5688.68	5710.80	---	---
	Ant2	5700	21.56	5689.40	5710.96	---	---
	Ant3	5745	21.16	5734.52	5755.68	---	---
	Ant2	5745	22.16	5734.08	5756.24	---	---
	Ant3	5785	22.44	5774.04	5796.48	---	---
	Ant2	5785	21.12	5774.28	5795.40	---	---
	Ant3	5825	22.84	5813.72	5836.56	---	---
	Ant2	5825	21.24	5814.52	5835.76	---	---
11n20MIMO	Ant3	5180	23.08	5168.68	5191.76	---	---
	Ant2	5180	22.44	5168.84	5191.28	---	---
	Ant3	5220	22.88	5208.44	5231.32	---	---
	Ant2	5220	22.68	5209.28	5231.96	---	---
	Ant3	5240	21.68	5229.32	5251.00	---	---



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	Ant2	5240	21.88	5229.32	5251.20	---	---
	Ant3	5260	22.32	5248.76	5271.08	---	---
	Ant2	5260	23.28	5248.64	5271.92	---	---
	Ant3	5300	22.04	5288.84	5310.88	---	---
	Ant2	5300	21.92	5289.32	5311.24	---	---
	Ant3	5320	22.12	5308.92	5331.04	---	---
	Ant2	5320	21.68	5309.12	5330.80	---	---
	Ant3	5500	21.64	5489.24	5510.88	---	---
	Ant2	5500	22.24	5488.96	5511.20	---	---
	Ant3	5580	22.16	5569.04	5591.20	---	---
	Ant2	5580	22.44	5568.68	5591.12	---	---
	Ant3	5700	22.72	5688.72	5711.44	---	---
	Ant2	5700	22.76	5688.68	5711.44	---	---
	Ant3	5745	22.80	5733.72	5756.52	---	---
	Ant2	5745	22.16	5734.12	5756.28	---	---
	Ant3	5785	22.80	5773.52	5796.32	---	---
	Ant2	5785	23.32	5773.84	5797.16	---	---
	Ant3	5825	22.56	5813.76	5836.32	---	---
	Ant2	5825	23.68	5813.28	5836.96	---	---
11n40MIMO	Ant3	5190	41.28	5169.52	5210.80	---	---
	Ant2	5190	41.84	5169.12	5210.96	---	---
	Ant3	5230	40.88	5209.76	5250.64	---	---
	Ant2	5230	41.76	5209.12	5250.88	---	---
	Ant3	5270	41.60	5249.44	5291.04	---	---
	Ant2	5270	41.52	5249.20	5290.72	---	---
	Ant3	5310	41.68	5289.36	5331.04	---	---
	Ant2	5310	41.44	5289.28	5330.72	---	---
	Ant3	5510	41.28	5489.28	5530.56	---	---
	Ant2	5510	41.20	5489.52	5530.72	---	---
	Ant3	5550	41.36	5529.20	5570.56	---	---
	Ant2	5550	41.28	5529.20	5570.48	---	---
	Ant3	5670	41.68	5649.20	5690.88	---	---
	Ant2	5670	79.84	5630.08	5709.92	---	---



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	Ant3	5755	41.44	5734.20	5775.64	---	---
	Ant2	5755	41.52	5734.04	5775.56	---	---
	Ant3	5795	41.44	5774.12	5815.56	---	---
	Ant2	5795	41.44	5774.20	5815.64	---	---
11ac20MIMO	Ant3	5180	22.04	5168.96	5191.00	---	---
	Ant2	5180	22.80	5168.76	5191.56	---	---
	Ant3	5220	22.28	5209.20	5231.48	---	---
	Ant2	5220	22.00	5208.92	5230.92	---	---
	Ant3	5240	21.56	5229.52	5251.08	---	---
	Ant2	5240	22.40	5228.72	5251.12	---	---
	Ant3	5260	22.36	5248.96	5271.32	---	---
	Ant2	5260	22.08	5249.28	5271.36	---	---
	Ant3	5300	23.24	5288.64	5311.88	---	---
	Ant2	5300	22.76	5288.96	5311.72	---	---
	Ant3	5320	22.24	5308.80	5331.04	---	---
	Ant2	5320	21.64	5309.28	5330.92	---	---
	Ant3	5500	22.80	5488.72	5511.52	---	---
	Ant2	5500	22.60	5488.96	5511.56	---	---
	Ant3	5580	23.20	5568.48	5591.68	---	---
	Ant2	5580	21.72	5569.08	5590.80	---	---
	Ant3	5700	23.16	5688.36	5711.52	---	---
	Ant2	5700	23.40	5688.08	5711.48	---	---
	Ant3	5745	22.60	5733.72	5756.32	---	---
	Ant2	5745	21.92	5734.16	5756.08	---	---
	Ant3	5785	21.76	5774.36	5796.12	---	---
	Ant2	5785	22.64	5774.00	5796.64	---	---
	Ant3	5825	23.24	5813.12	5836.36	---	---
	Ant2	5825	22.68	5813.68	5836.36	---	---
11ac40MIMO	Ant3	5190	41.12	5169.76	5210.88	---	---
	Ant2	5190	41.04	5169.28	5210.32	---	---
	Ant3	5230	41.12	5209.60	5250.72	---	---
	Ant2	5230	41.20	5209.52	5250.72	---	---
	Ant3	5270	41.20	5249.52	5290.72	---	---



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	Ant2	5270	40.96	5249.52	5290.48	---	---
	Ant3	5310	41.36	5289.20	5330.56	---	---
	Ant2	5310	41.76	5289.28	5331.04	---	---
	Ant3	5510	41.44	5489.44	5530.88	---	---
	Ant2	5510	40.96	5489.68	5530.64	---	---
	Ant3	5550	41.76	5529.12	5570.88	---	---
	Ant2	5550	40.96	5529.76	5570.72	---	---
	Ant3	5670	41.12	5649.52	5690.64	---	---
	Ant2	5670	41.44	5649.36	5690.80	---	---
	Ant3	5755	40.40	5734.84	5775.24	---	---
	Ant2	5755	40.48	5734.76	5775.24	---	---
	Ant3	5795	41.44	5774.28	5815.72	---	---
	Ant2	5795	41.68	5774.28	5815.96	---	---
11ac80MIMO	Ant3	5210	83.36	5168.72	5252.08	---	---
	Ant2	5210	84.00	5168.72	5252.72	---	---
	Ant3	5290	83.36	5248.72	5332.08	---	---
	Ant2	5290	83.68	5248.24	5331.92	---	---
	Ant3	5530	83.84	5488.24	5572.08	---	---
	Ant2	5530	83.20	5488.72	5571.92	---	---
	Ant3	5610	84.00	5568.40	5652.40	---	---
	Ant2	5610	84.00	5568.24	5652.24	---	---
	Ant3	5775	84.64	5733.24	5817.88	---	---
	Ant2	5775	83.68	5733.40	5817.08	---	---



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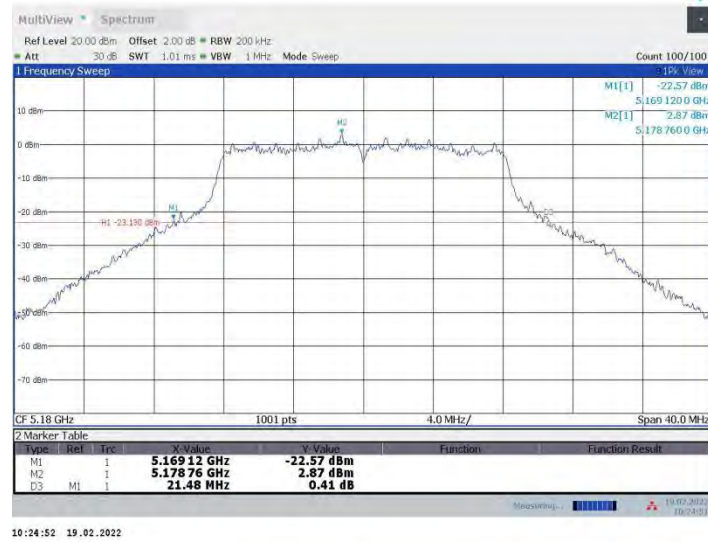
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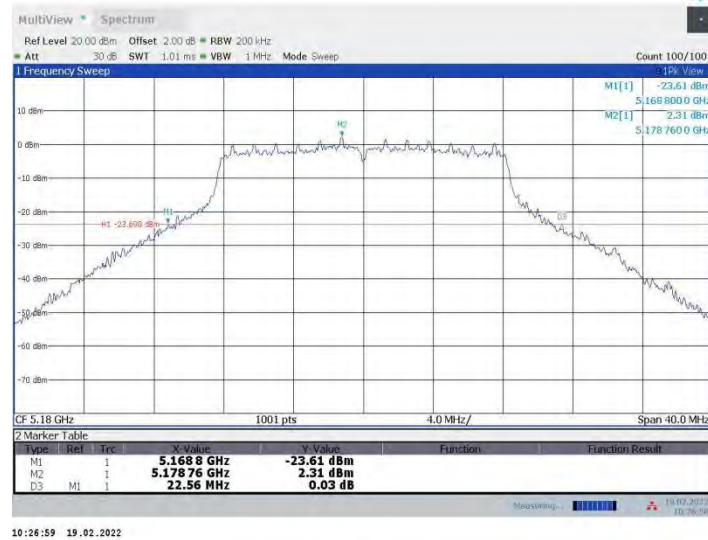
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Test Graphs

11a-CDD Ant3 5180



11a-CDD Ant2 5180



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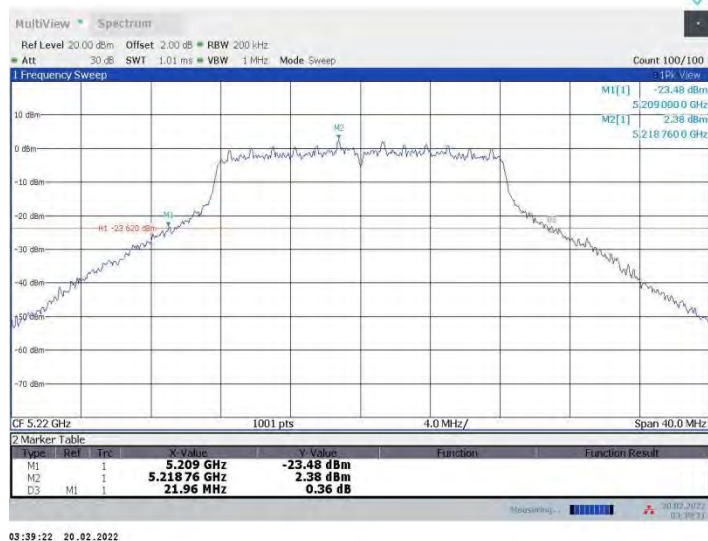
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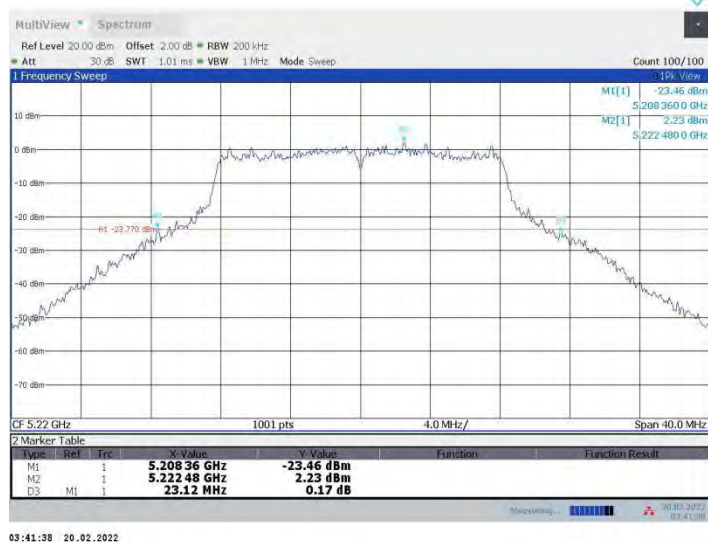
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11a-CDD_Ant2_5220



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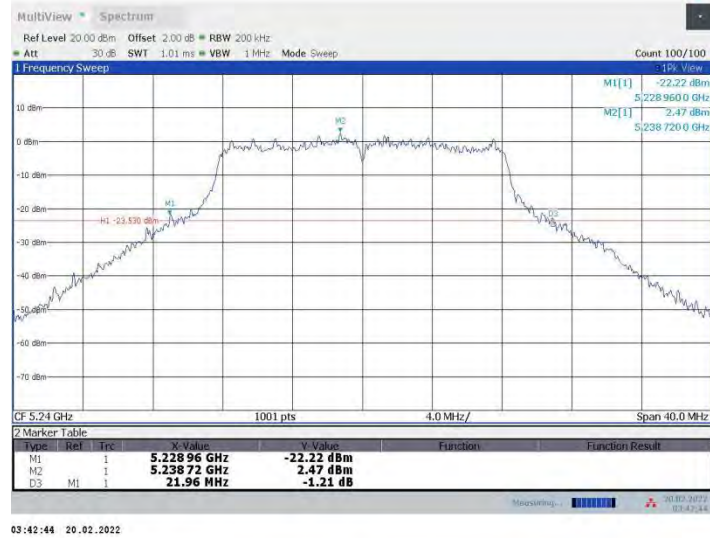
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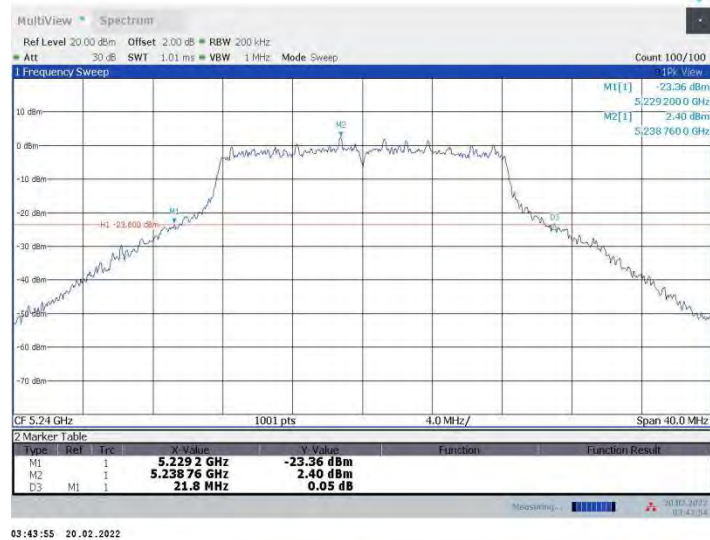
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11a-CDD_Ant2_5240



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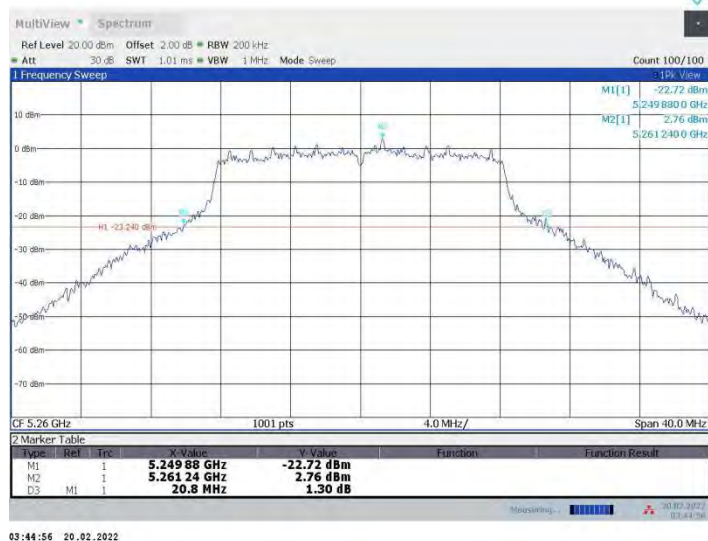
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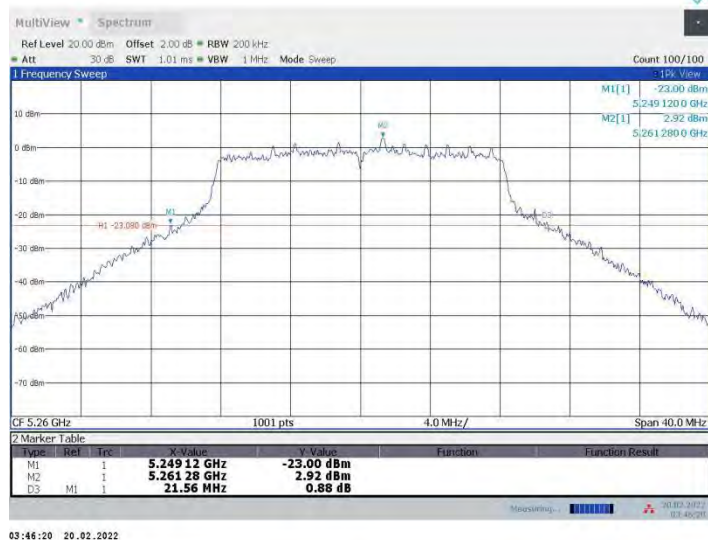
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11a-CDD_Ant2_5260



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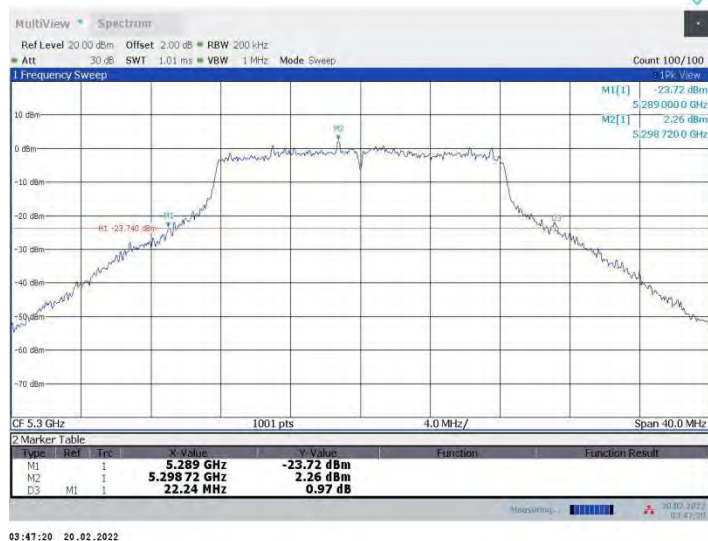
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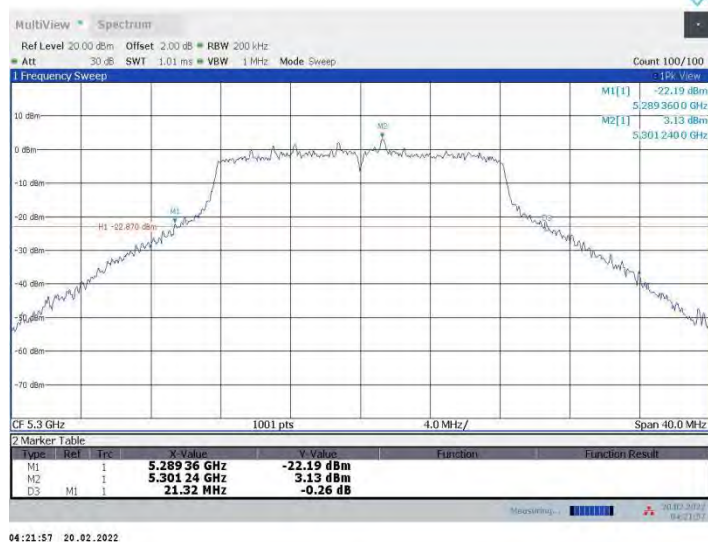
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11a-CDD_Ant2_5300



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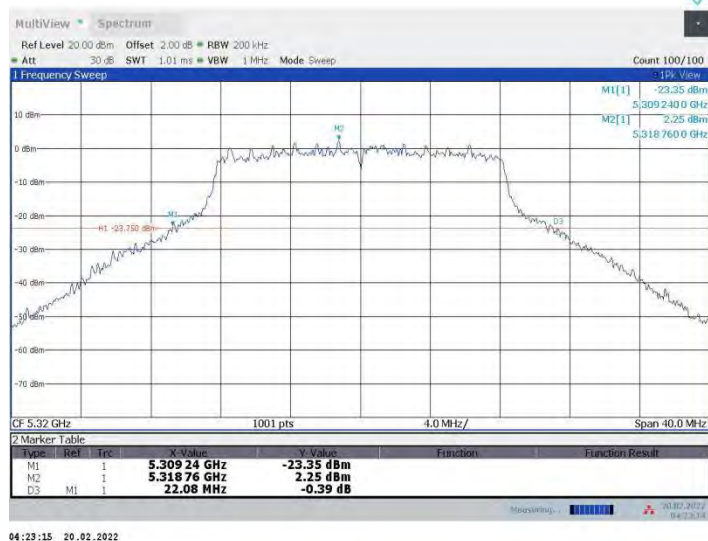
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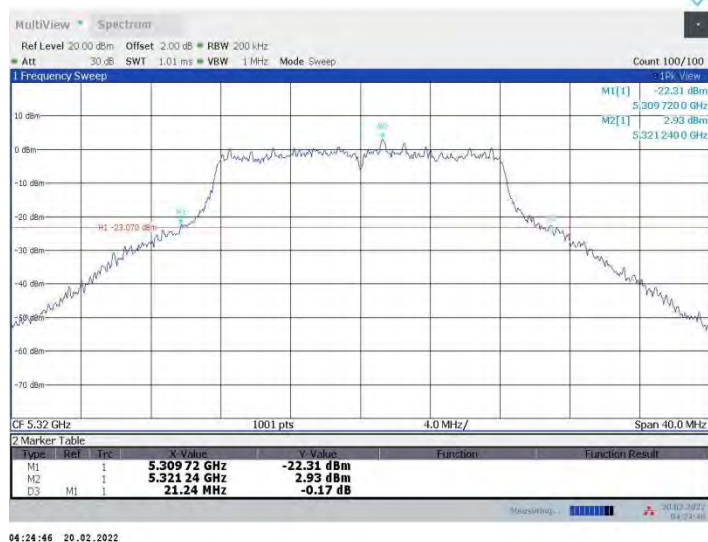
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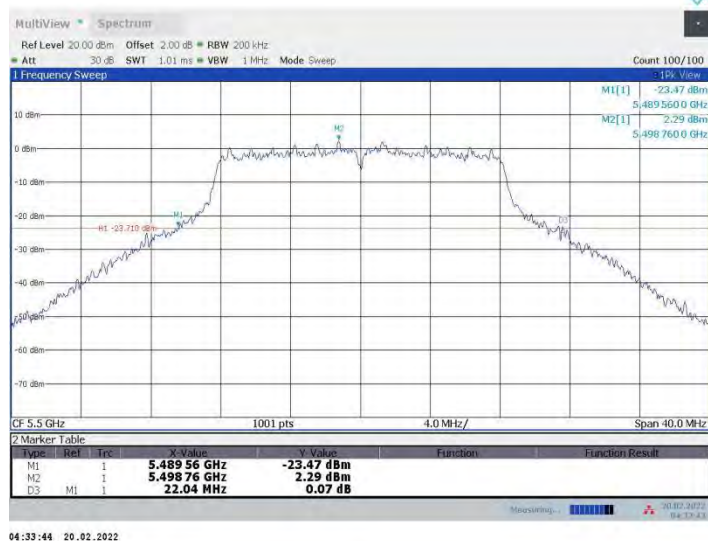
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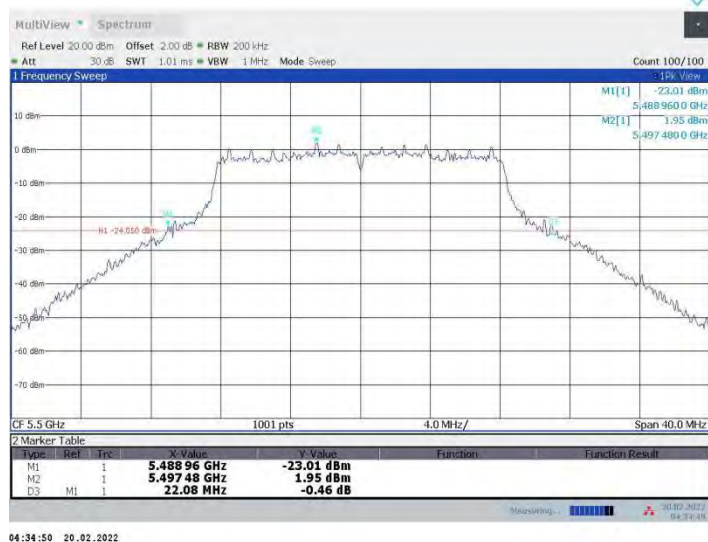
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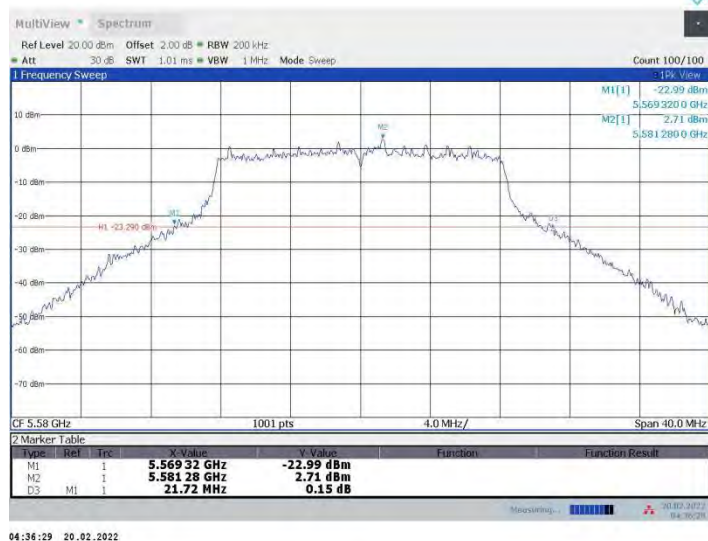
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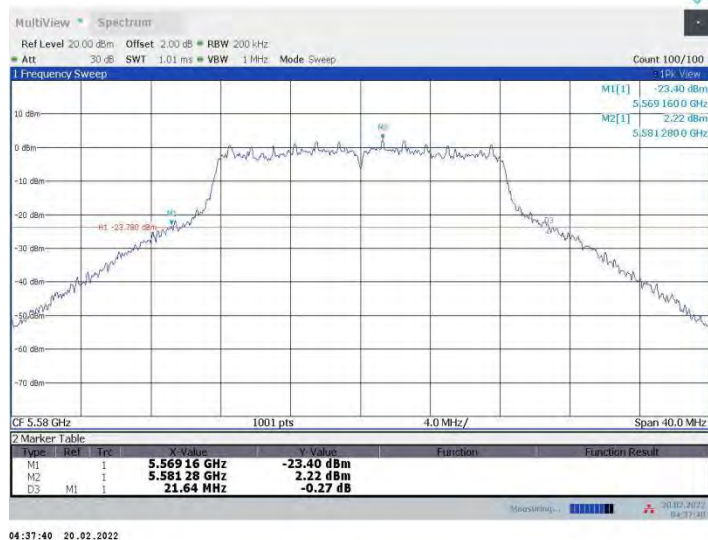
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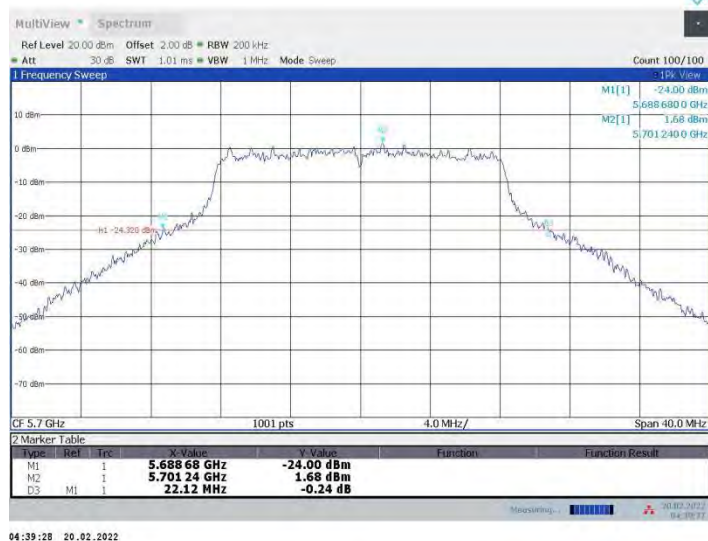
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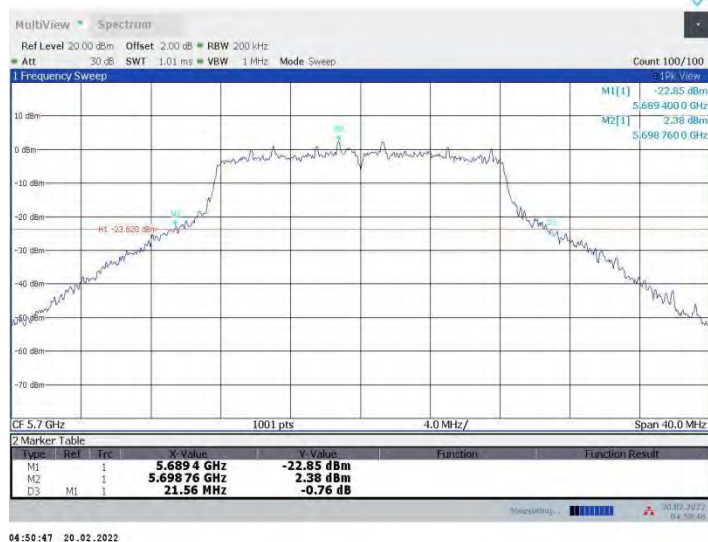
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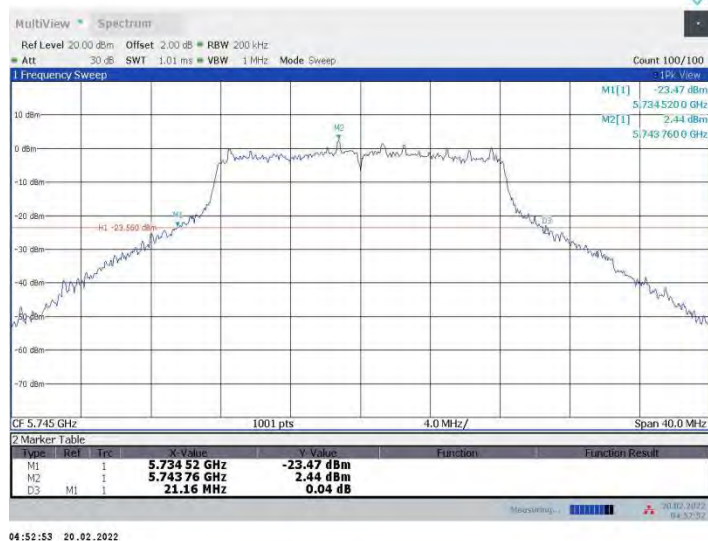
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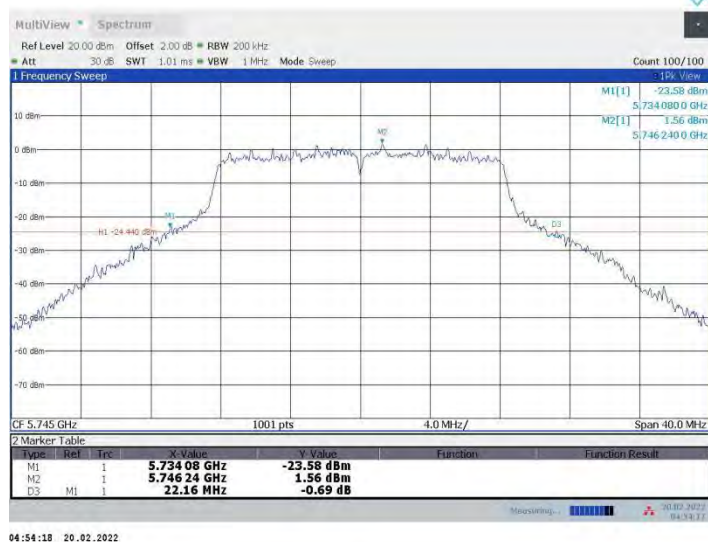
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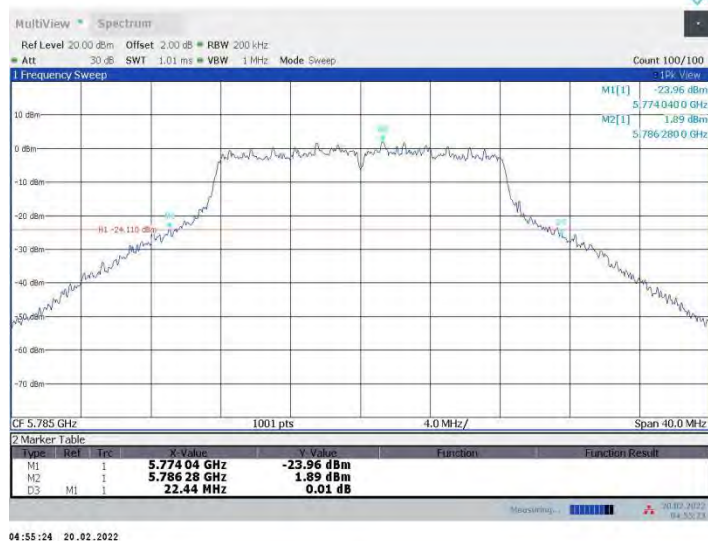
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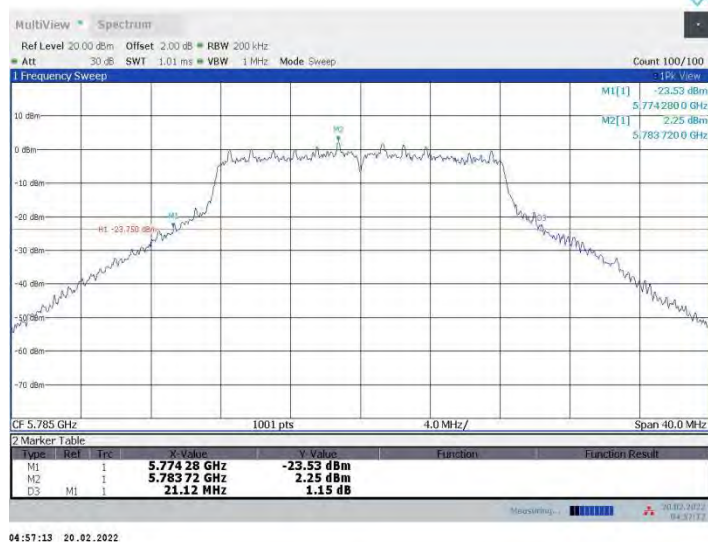
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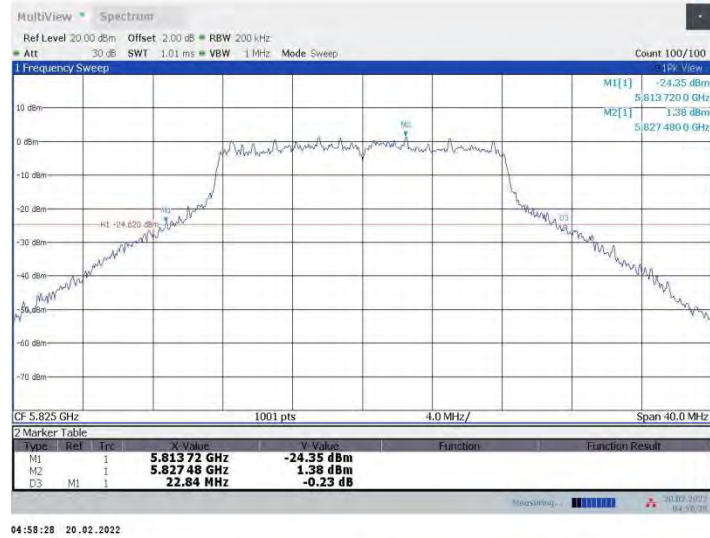
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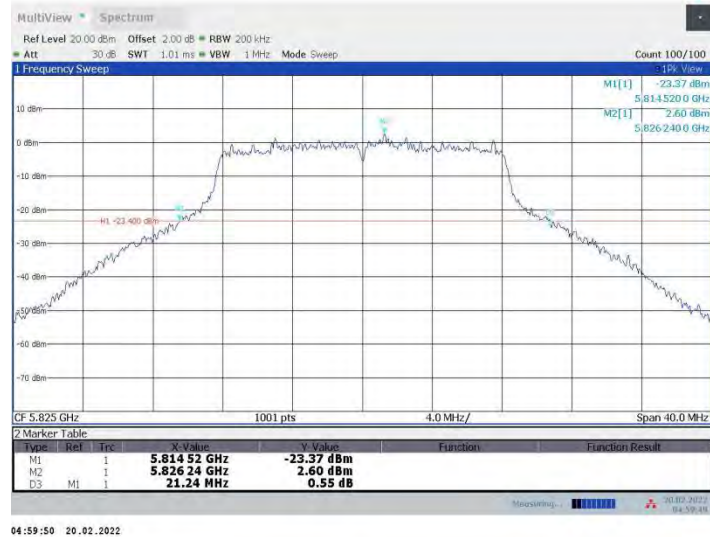
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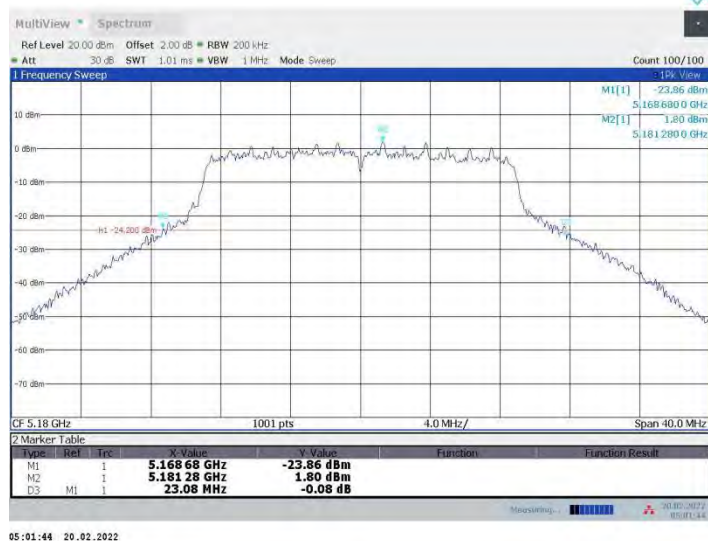
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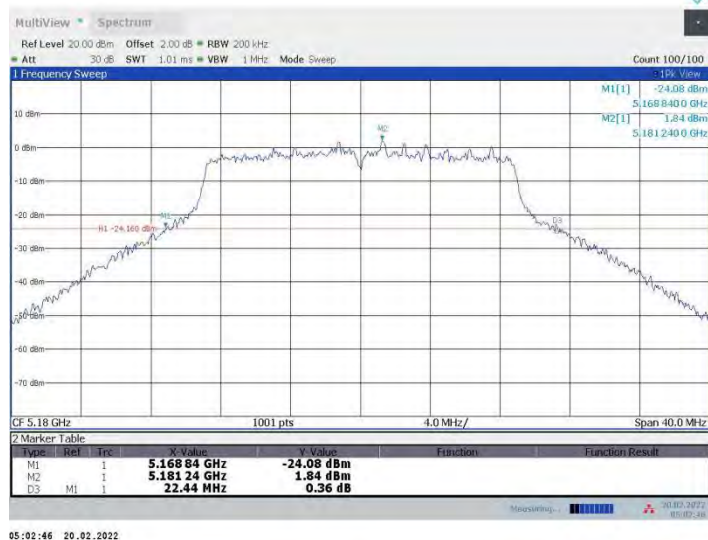
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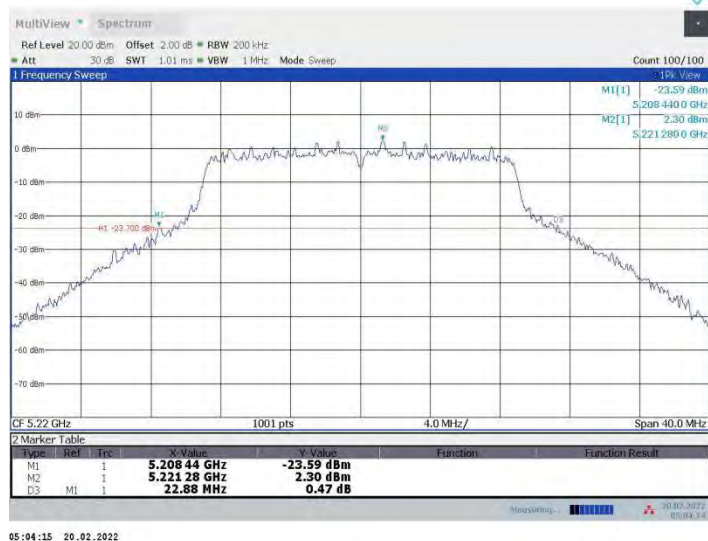
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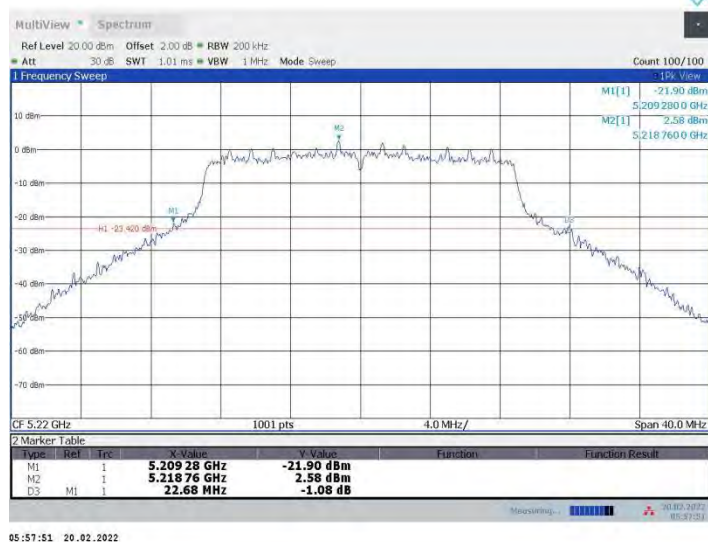
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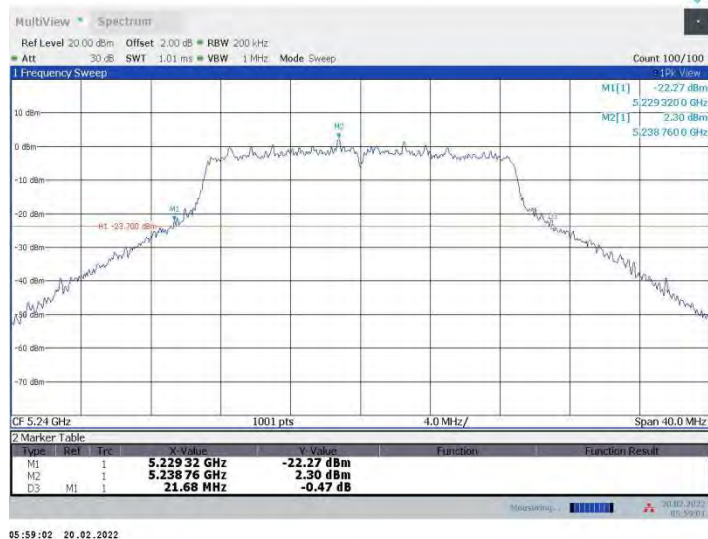
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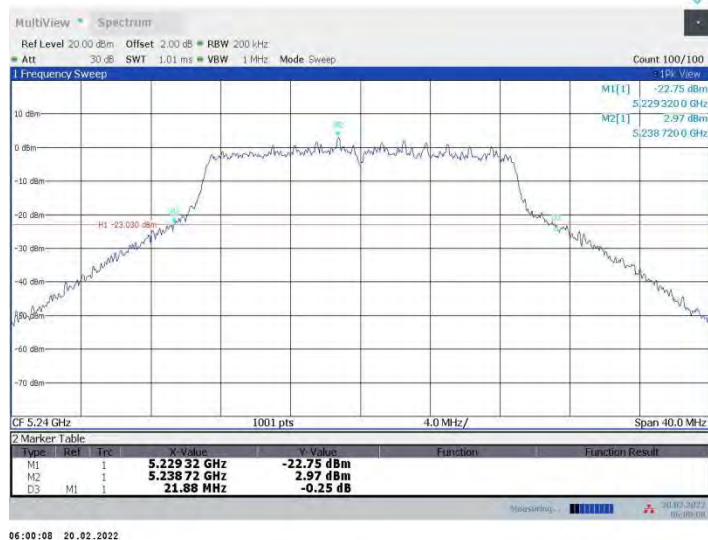
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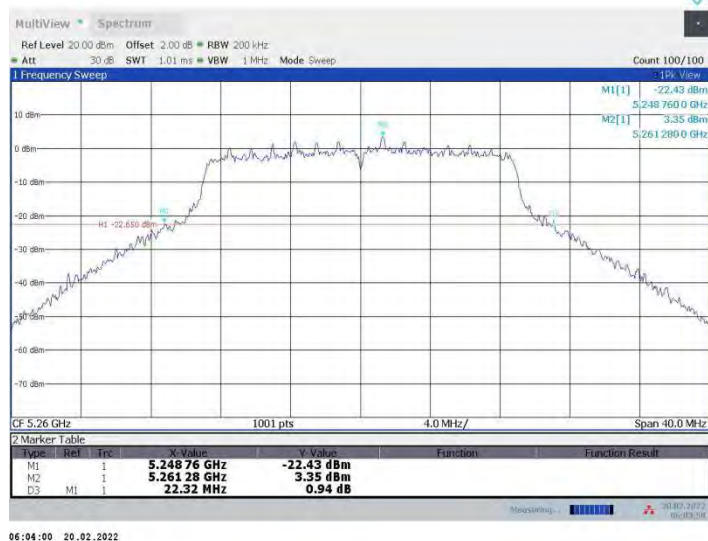
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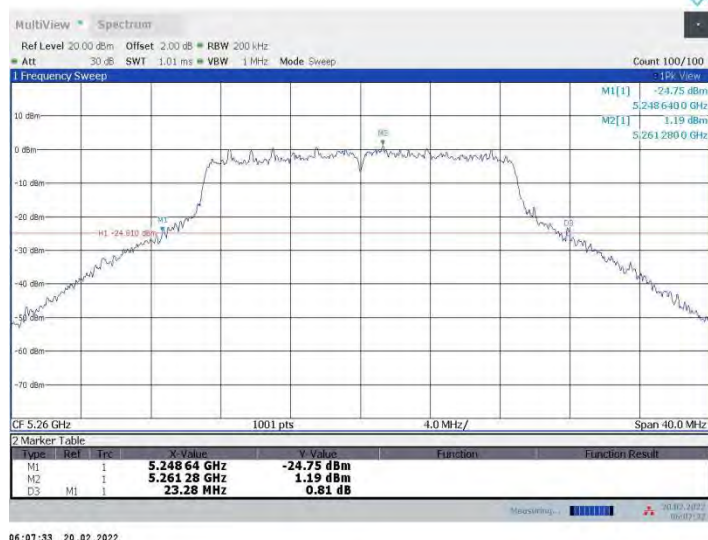
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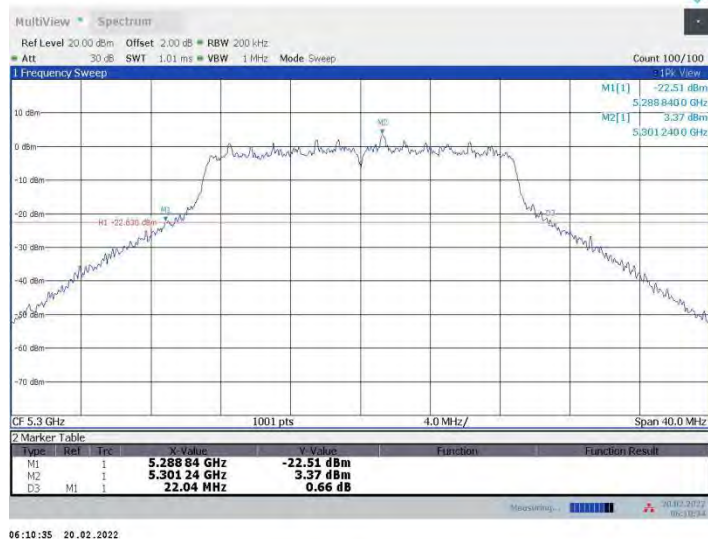
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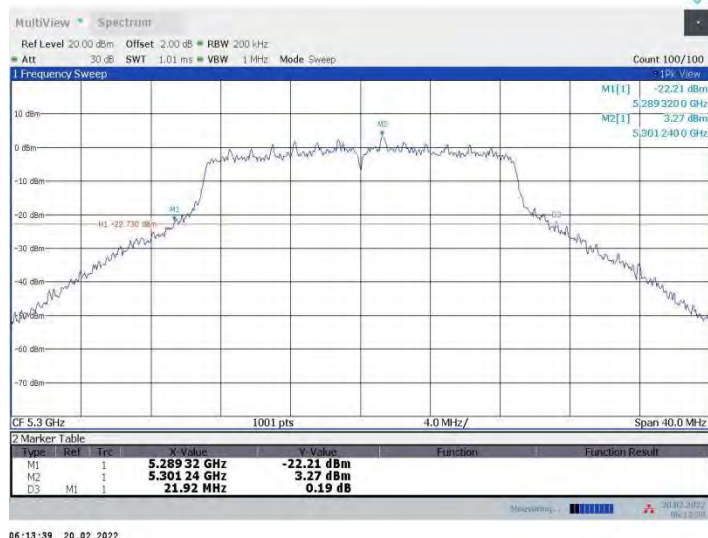
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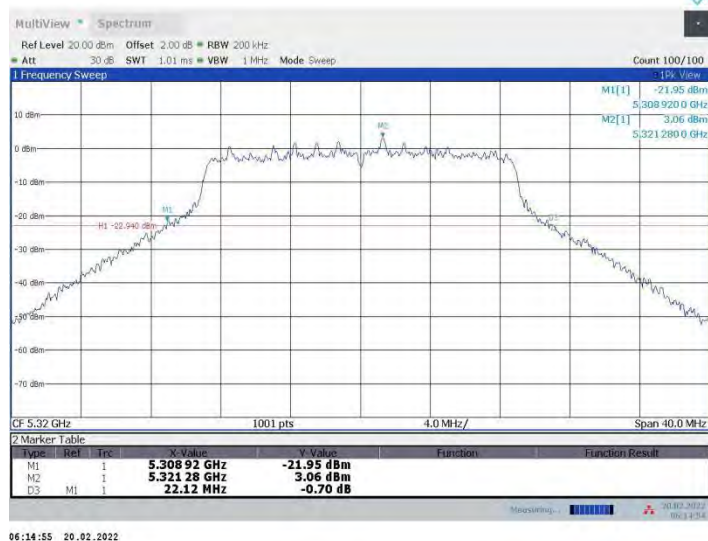
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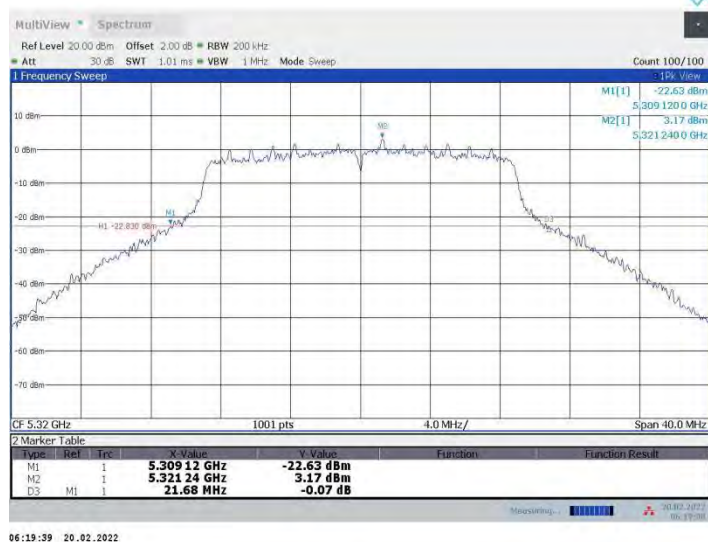
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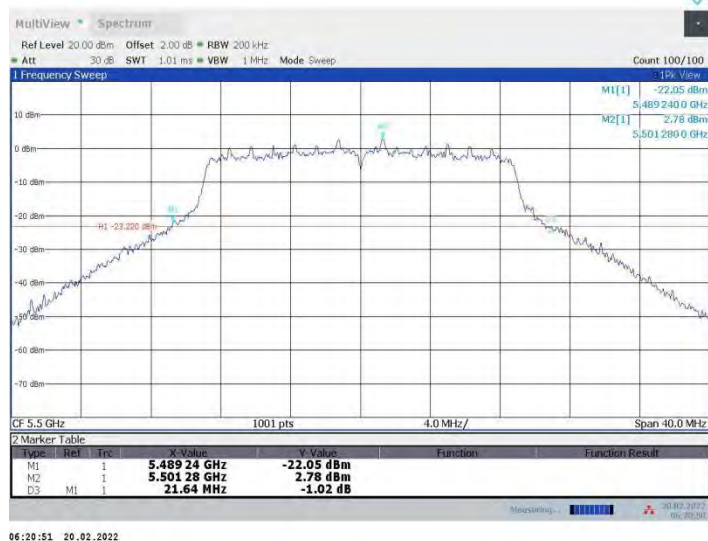
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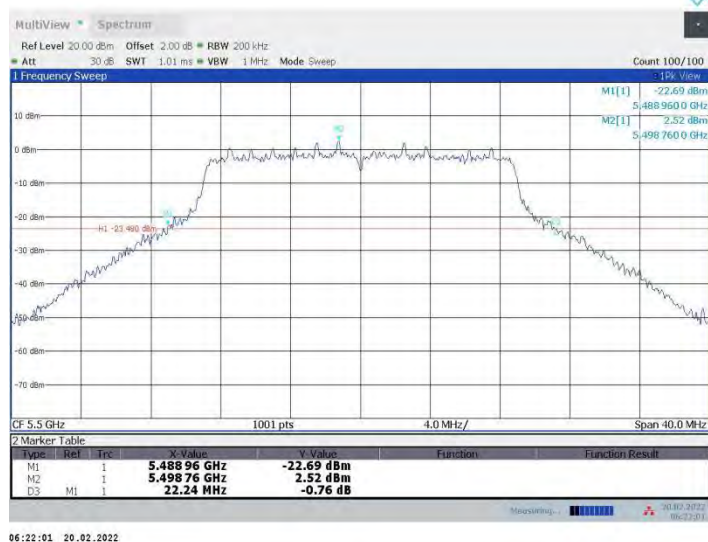
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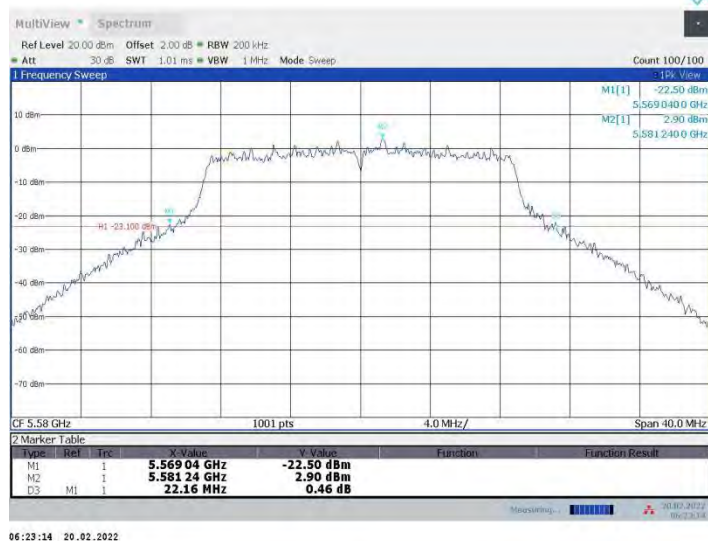
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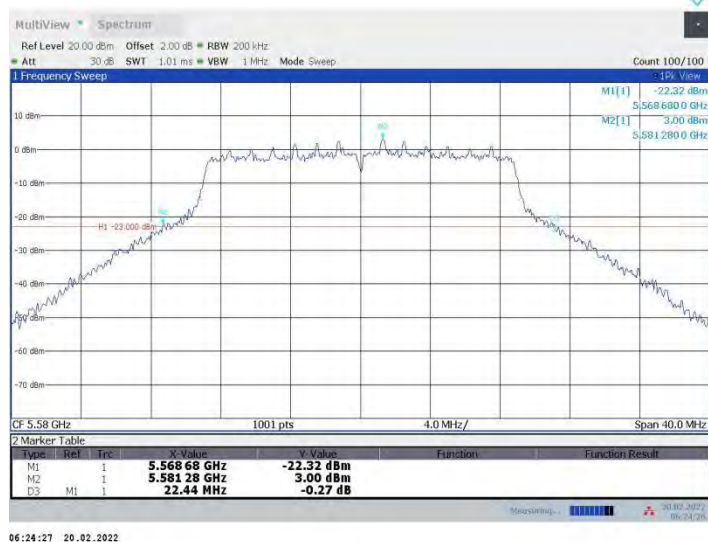
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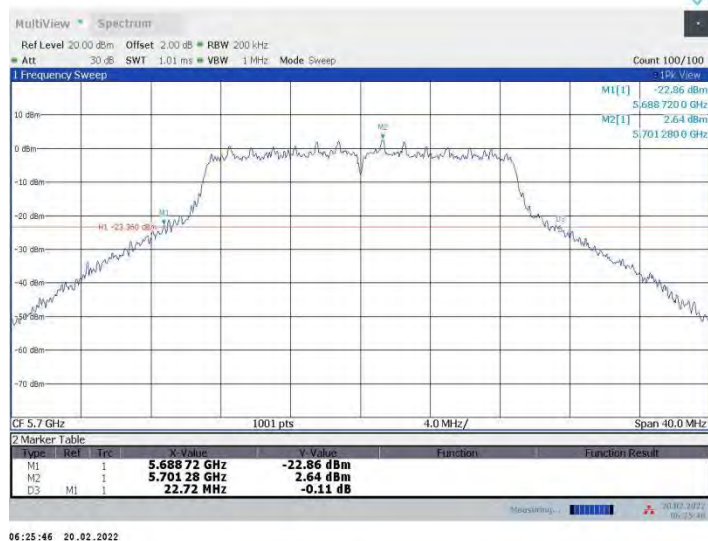
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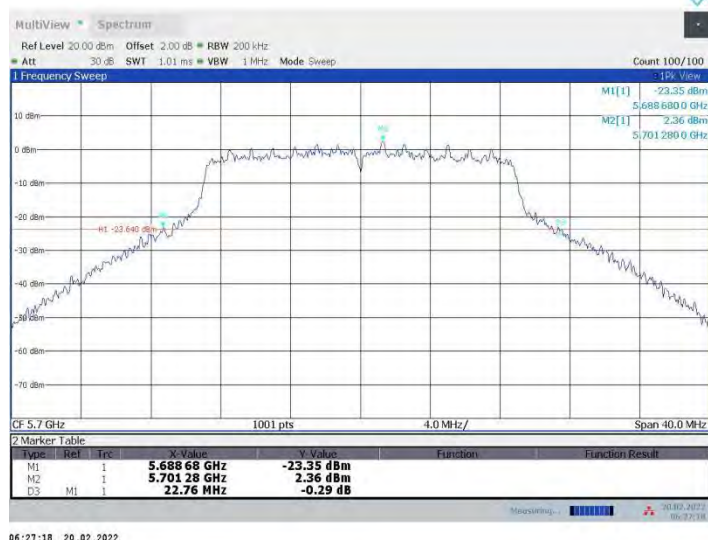
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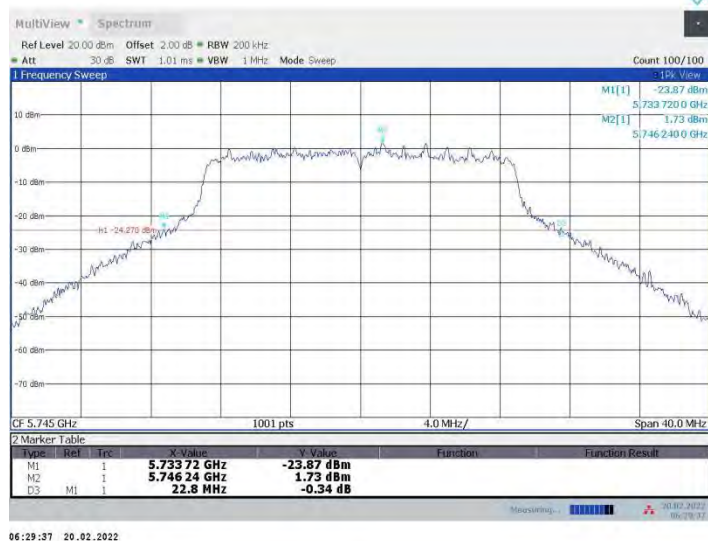
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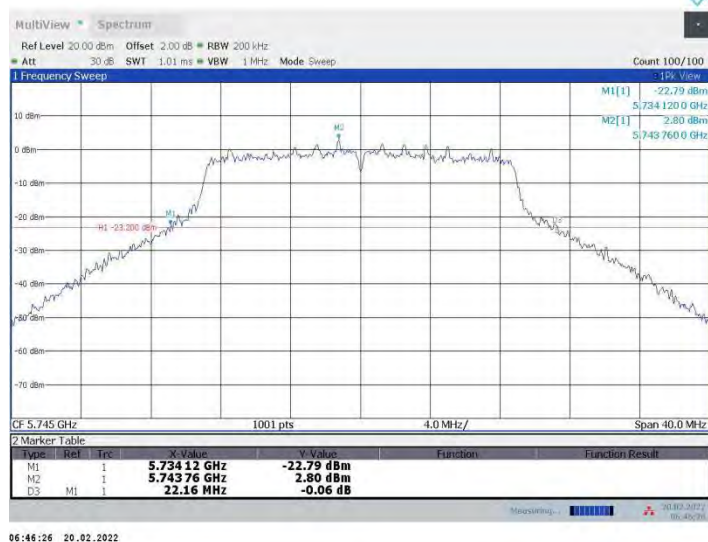
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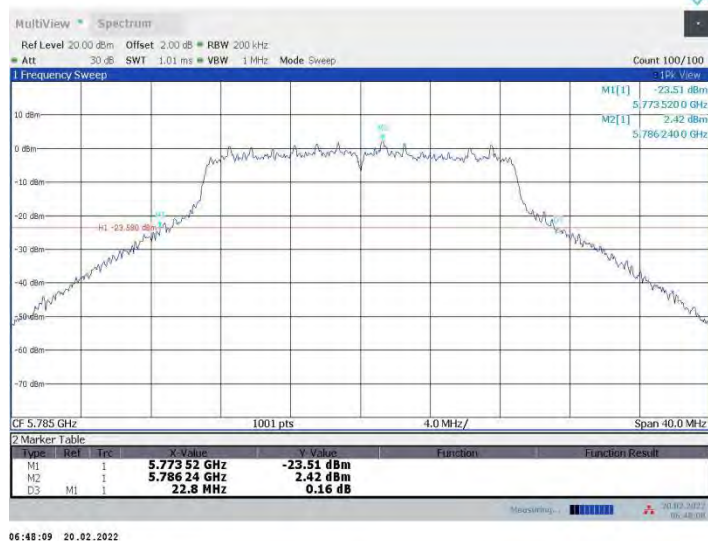
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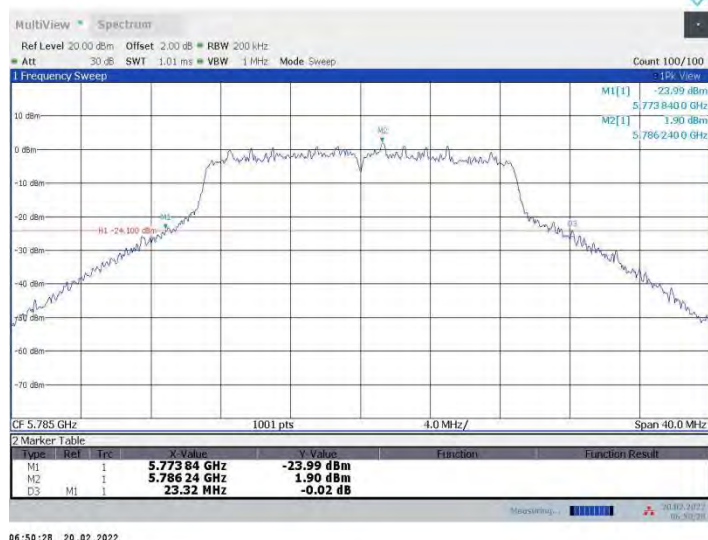
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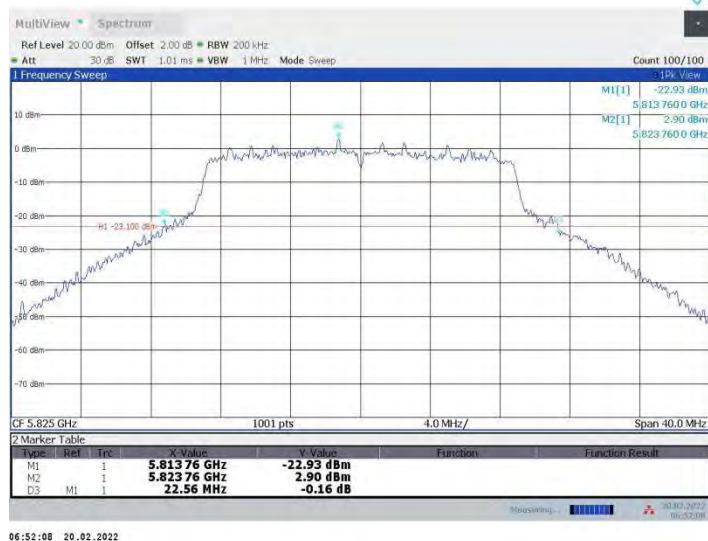


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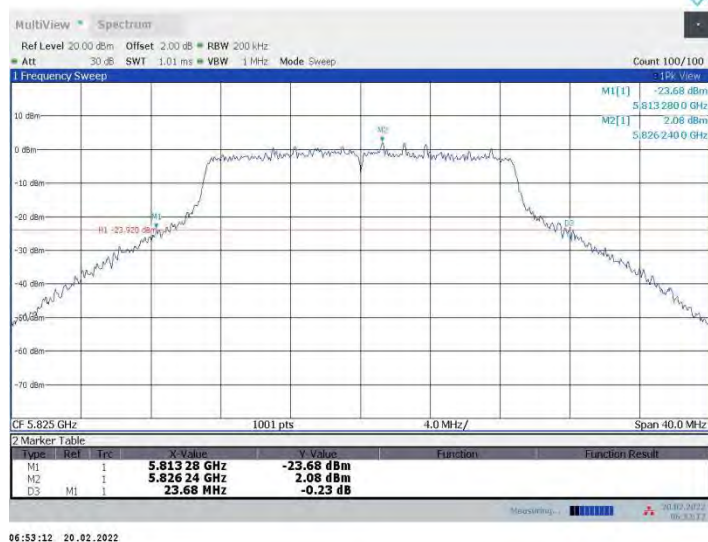
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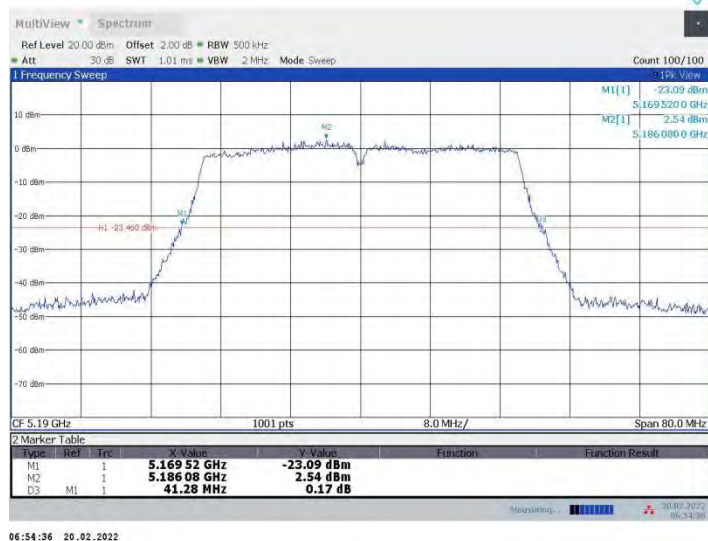


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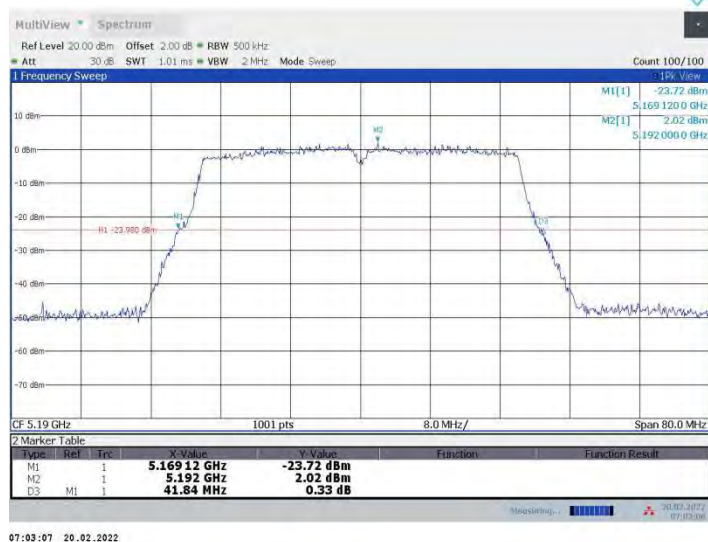
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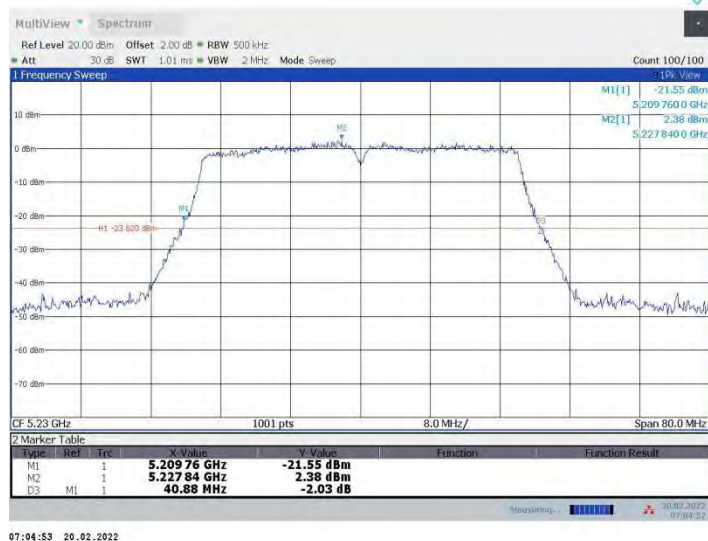
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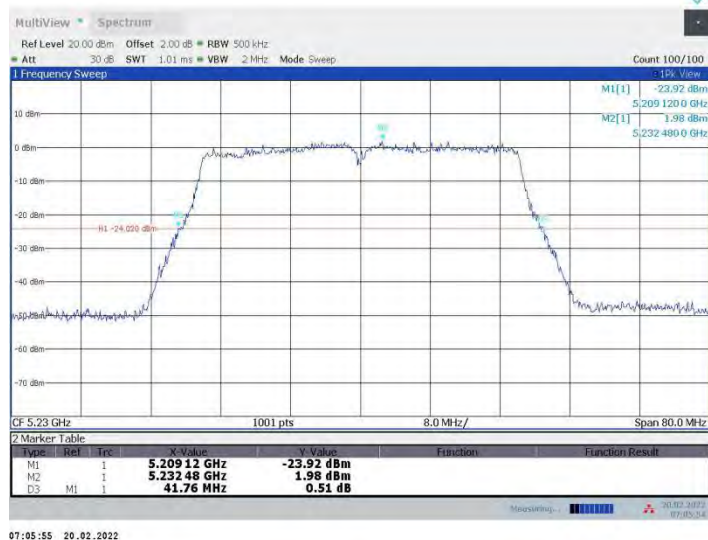
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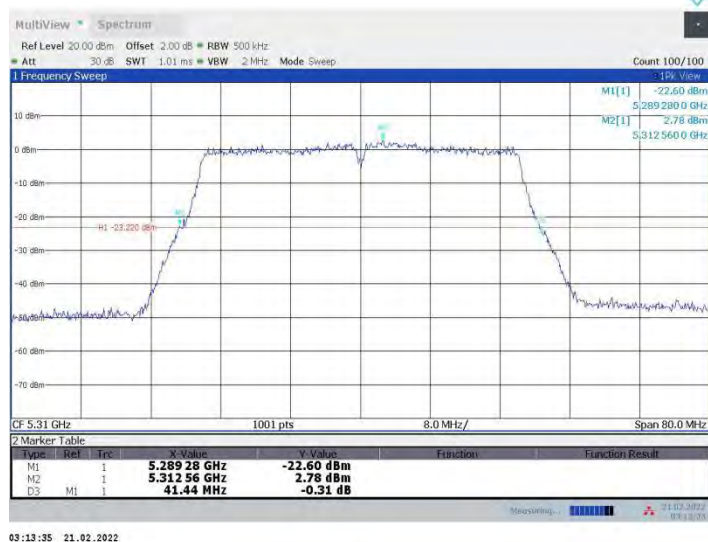
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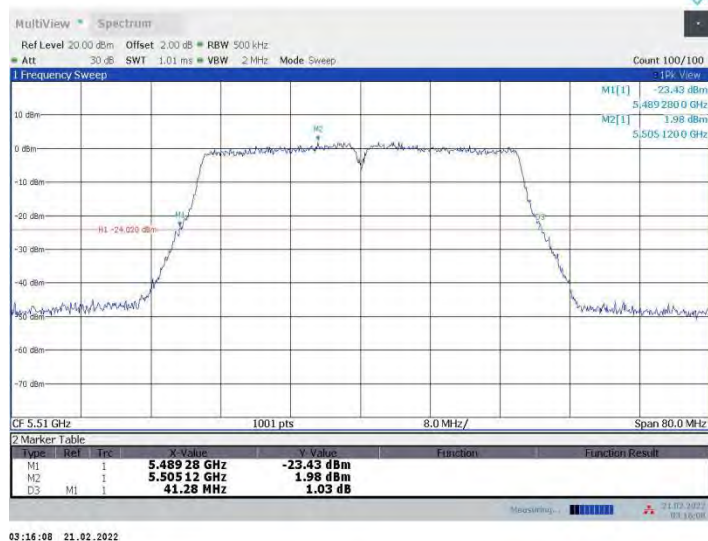
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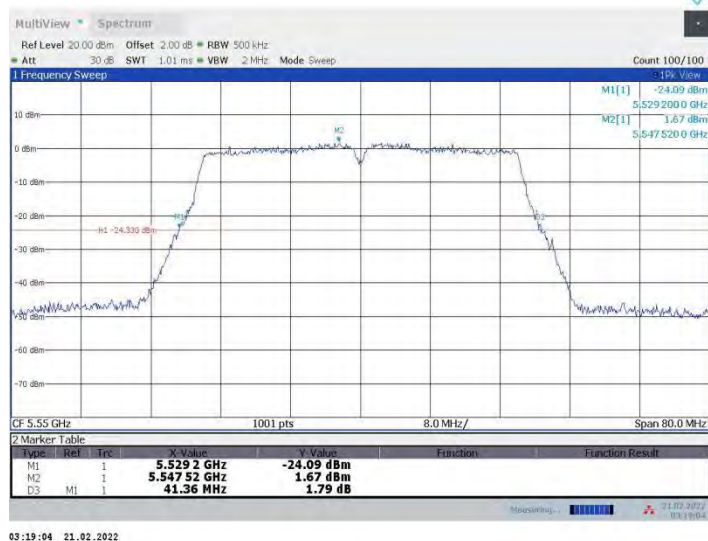
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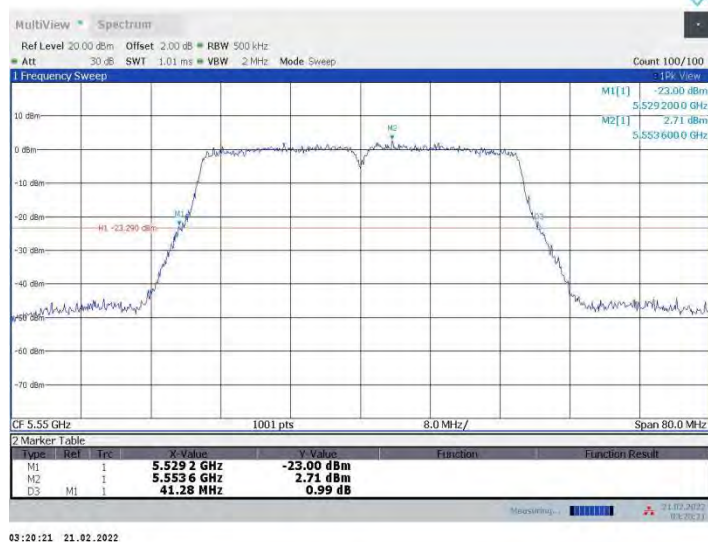
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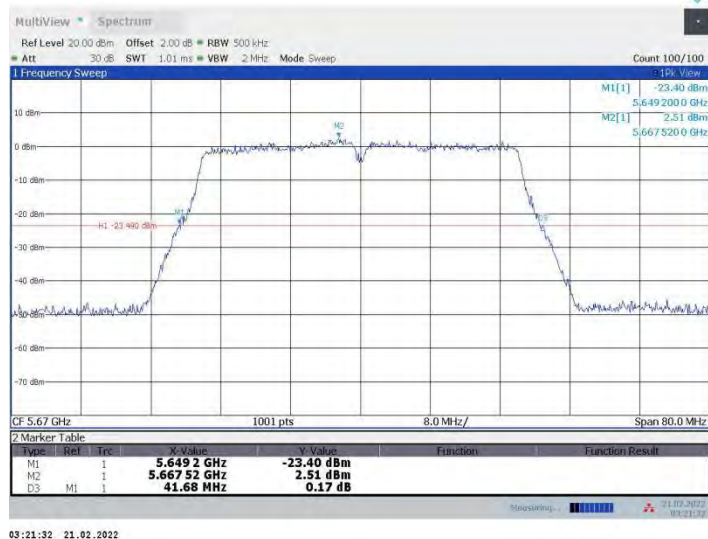
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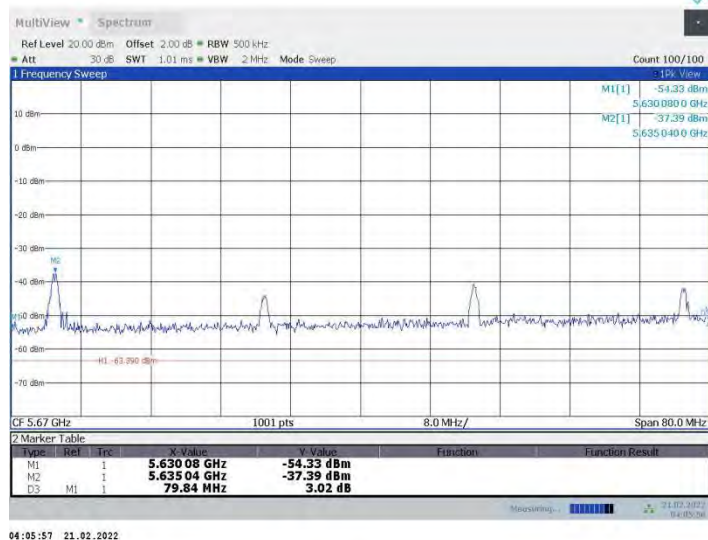
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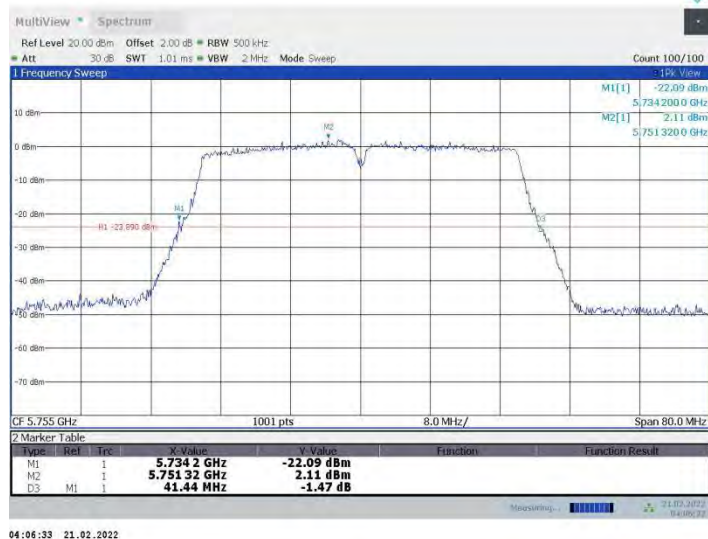
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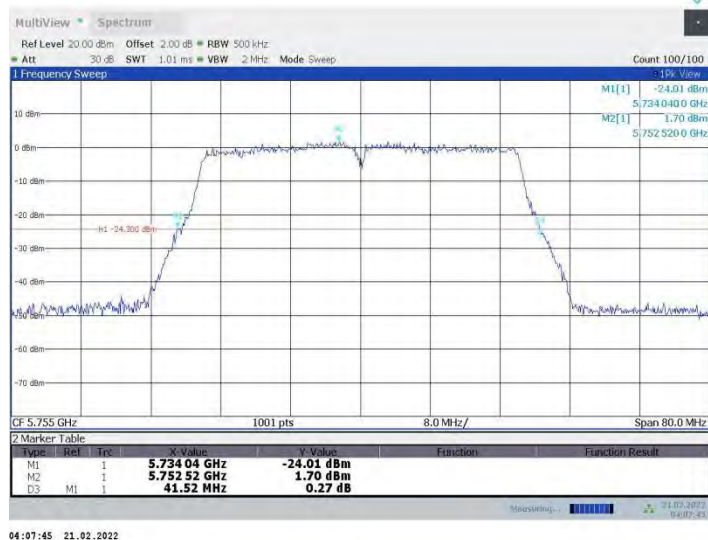
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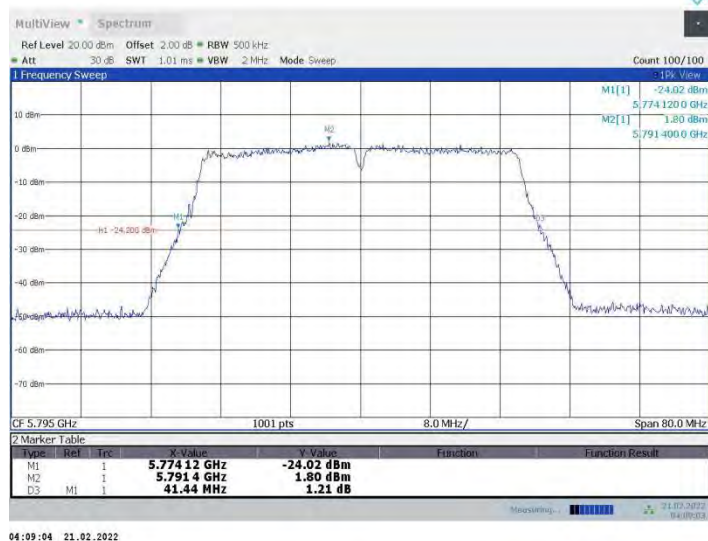
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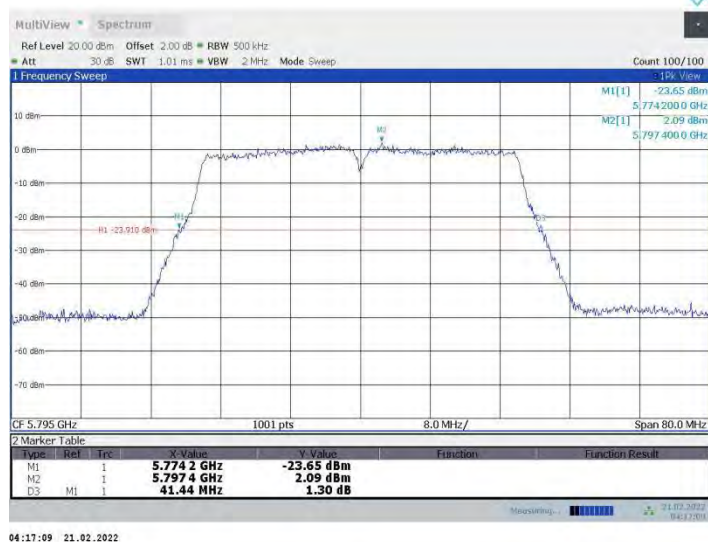
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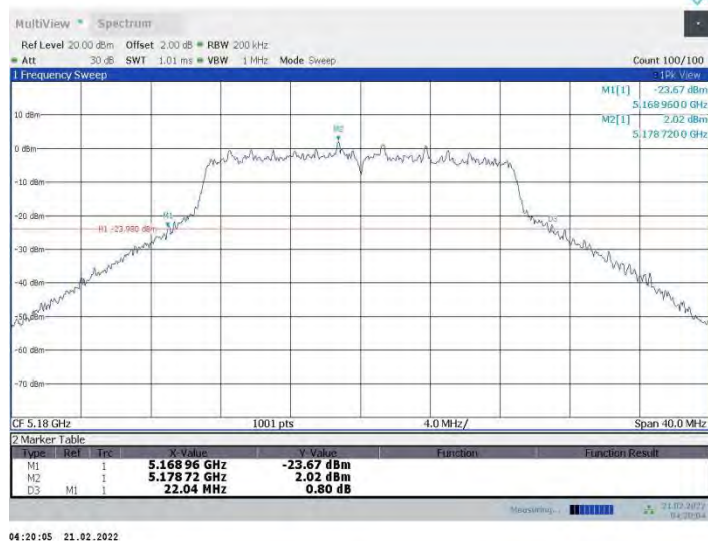
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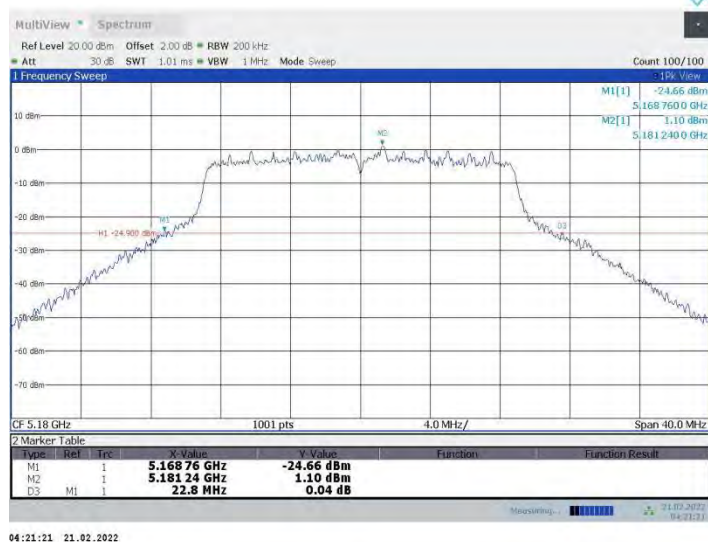
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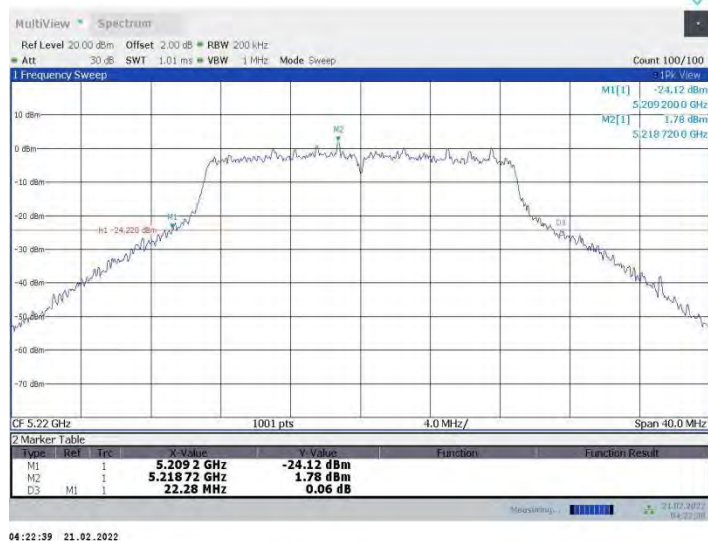
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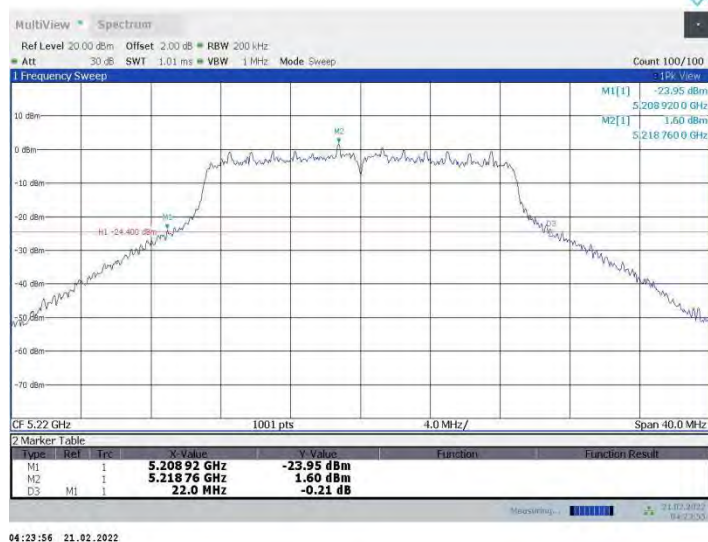
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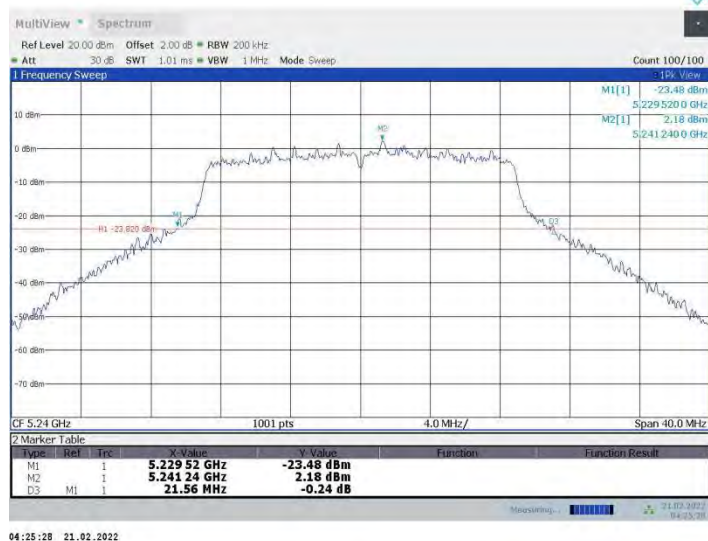


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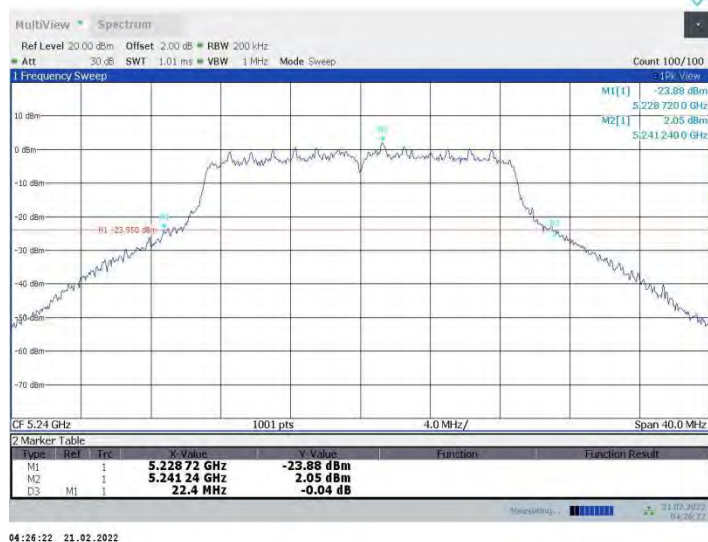
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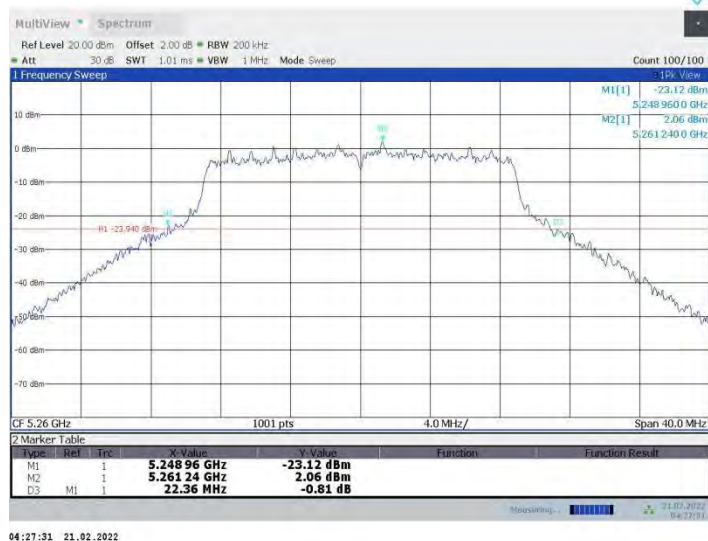
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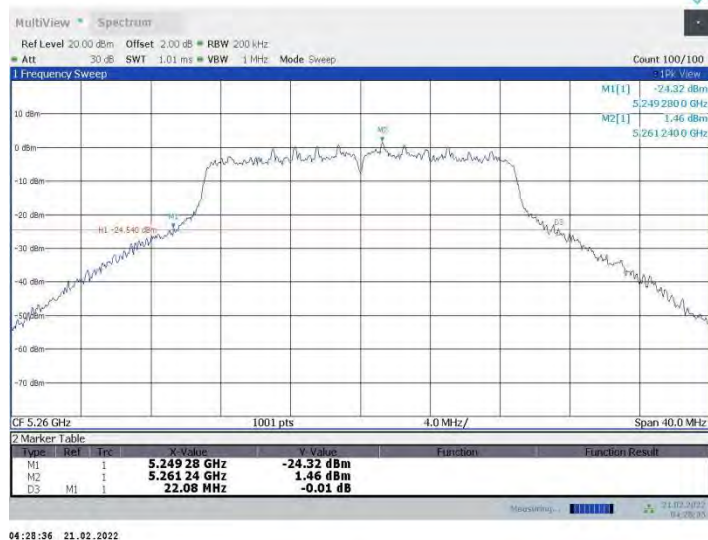
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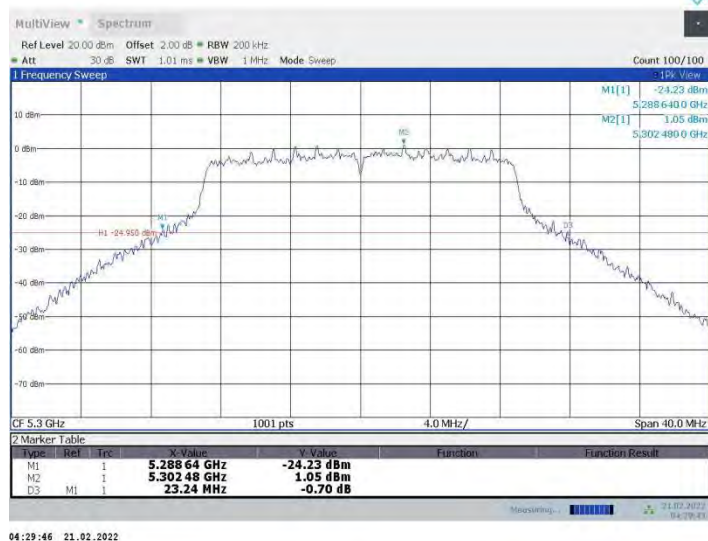
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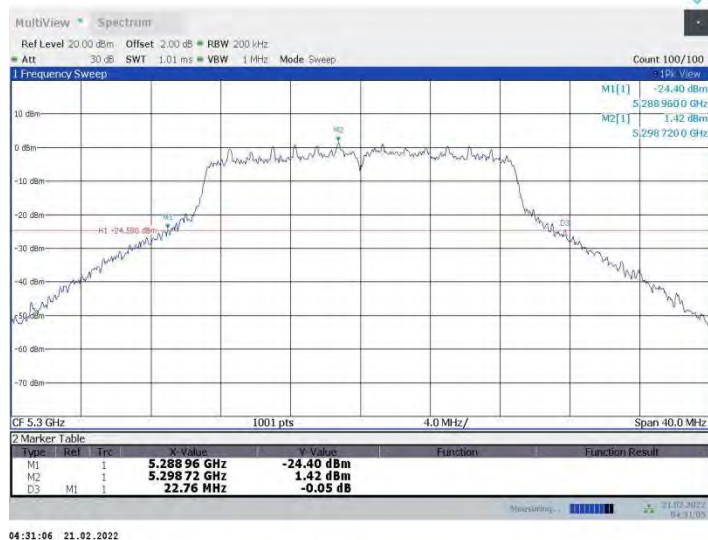
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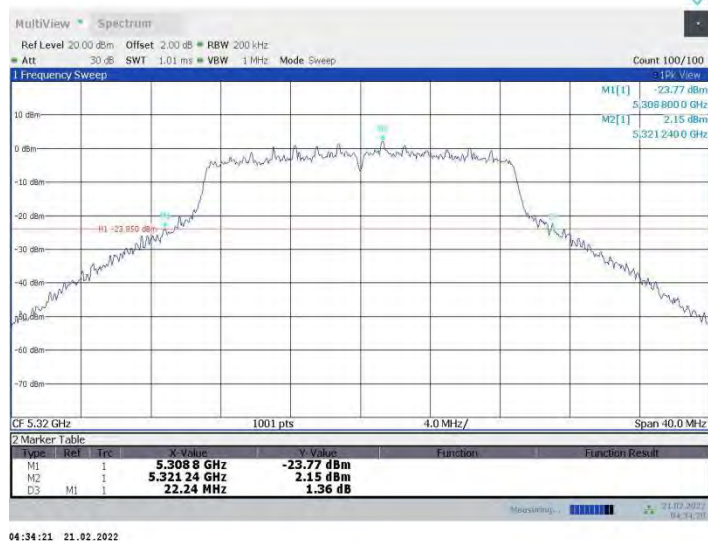
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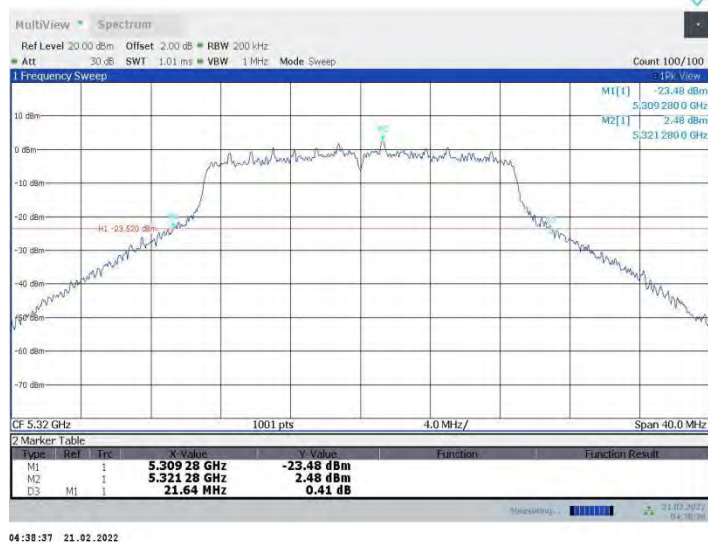
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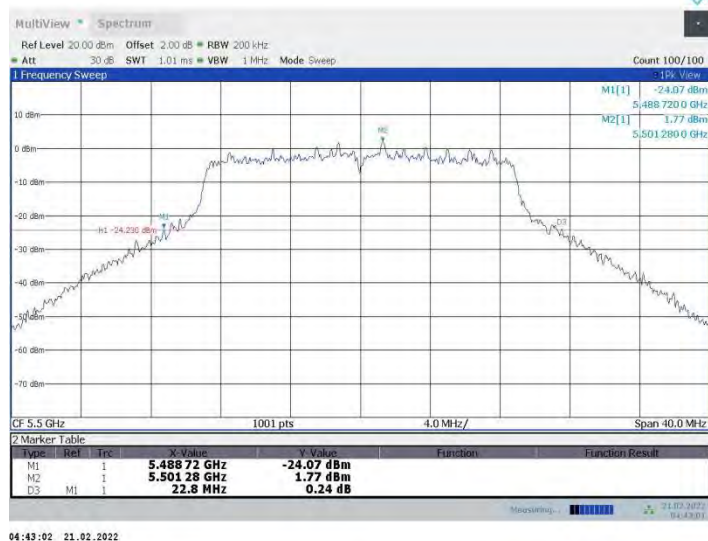
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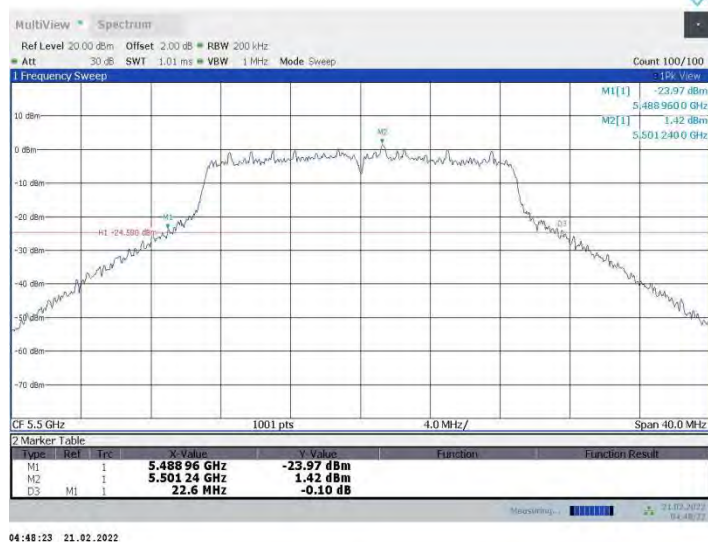
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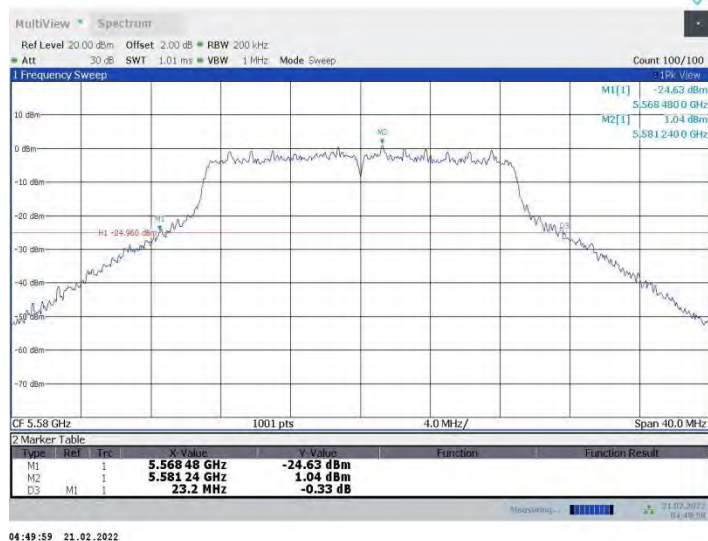
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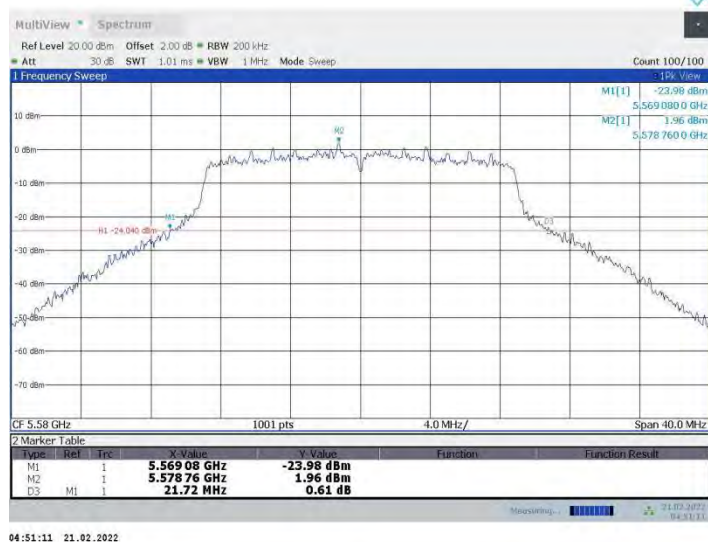
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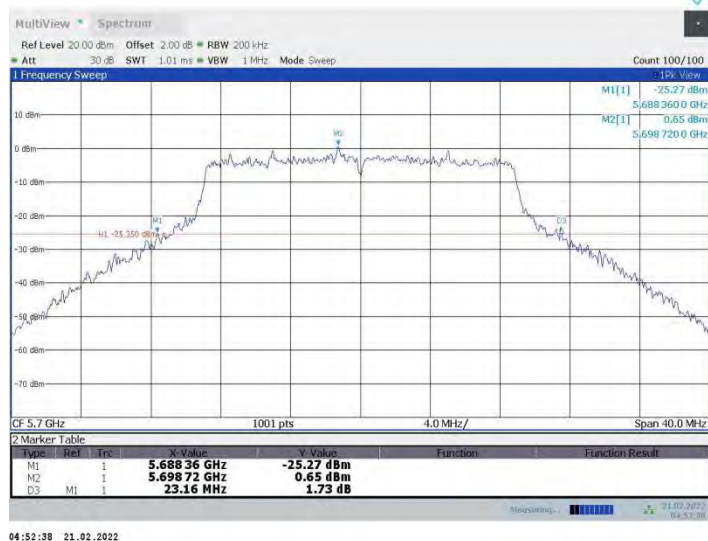
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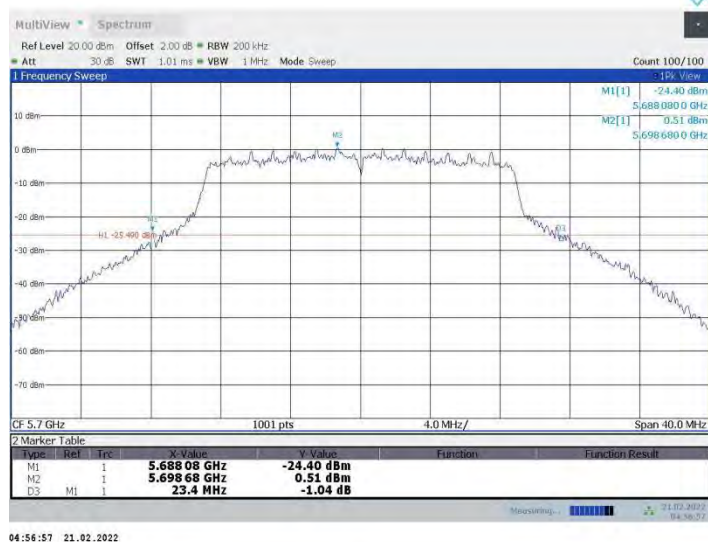
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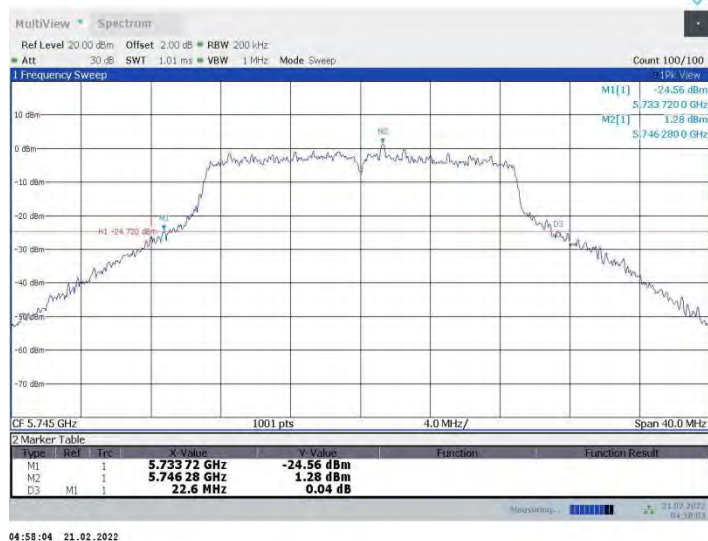


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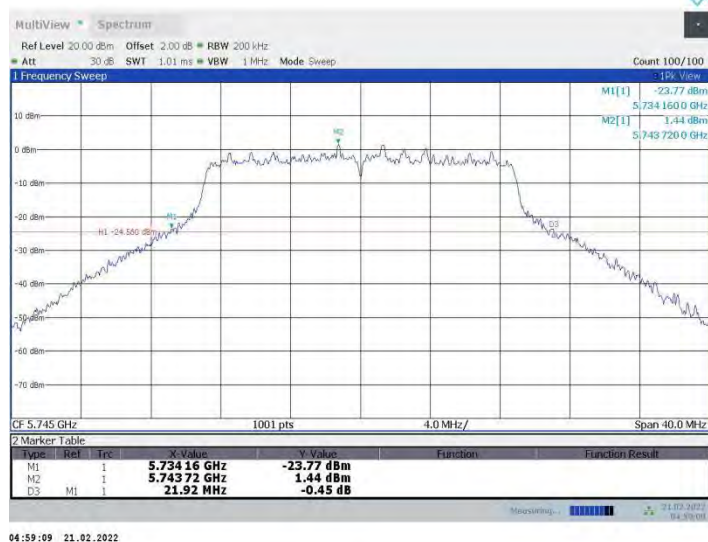
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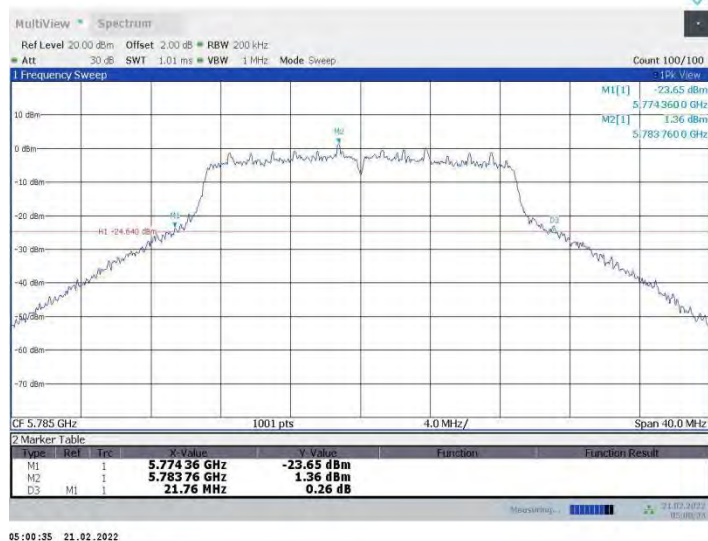
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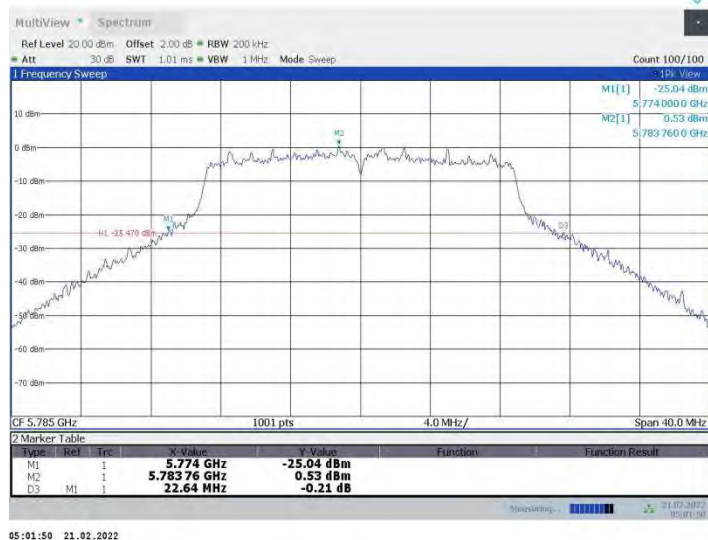
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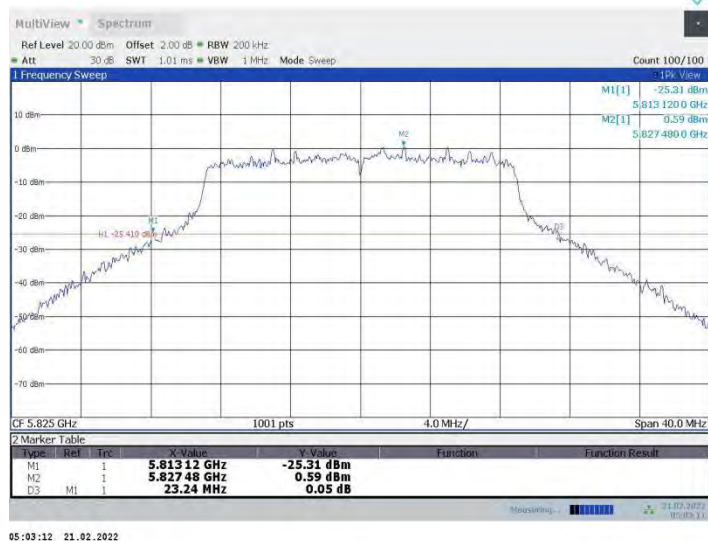
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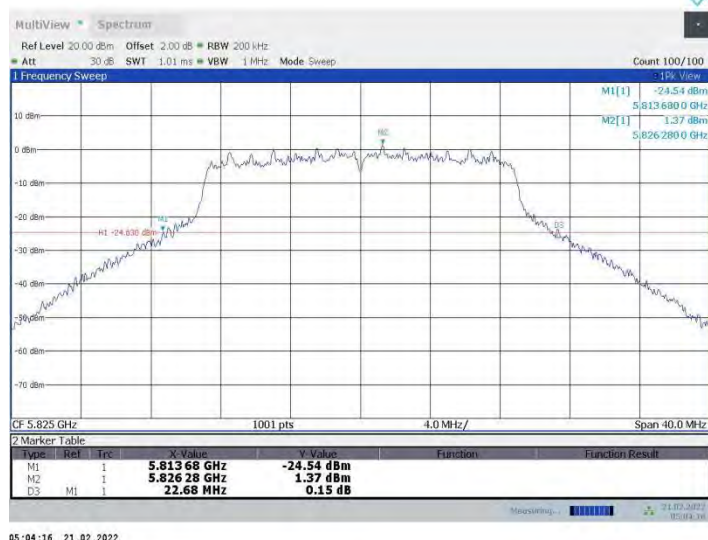
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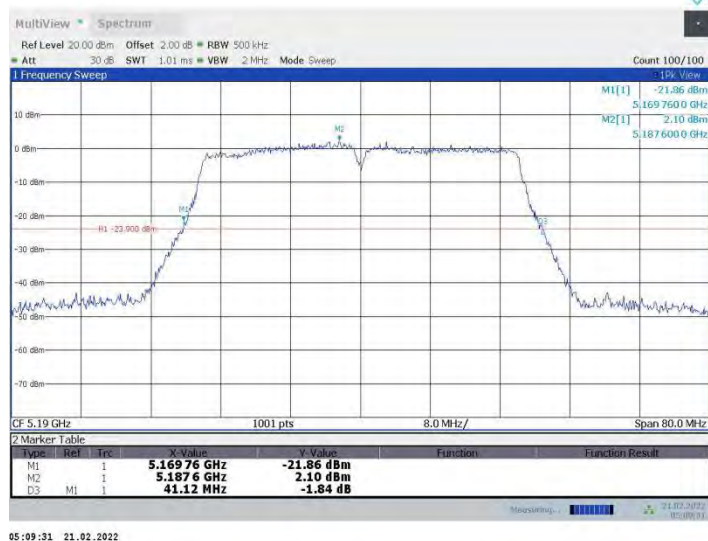


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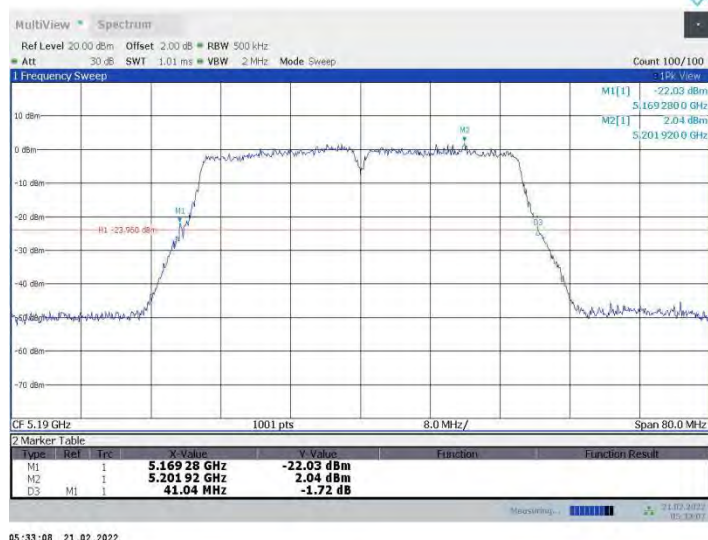
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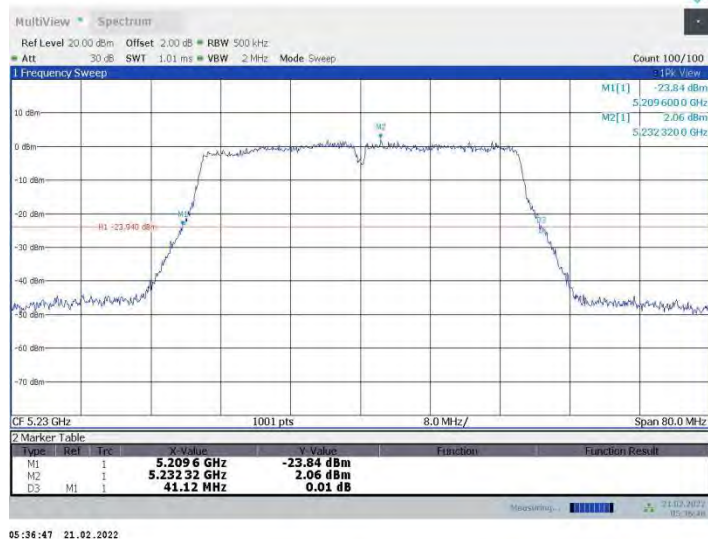
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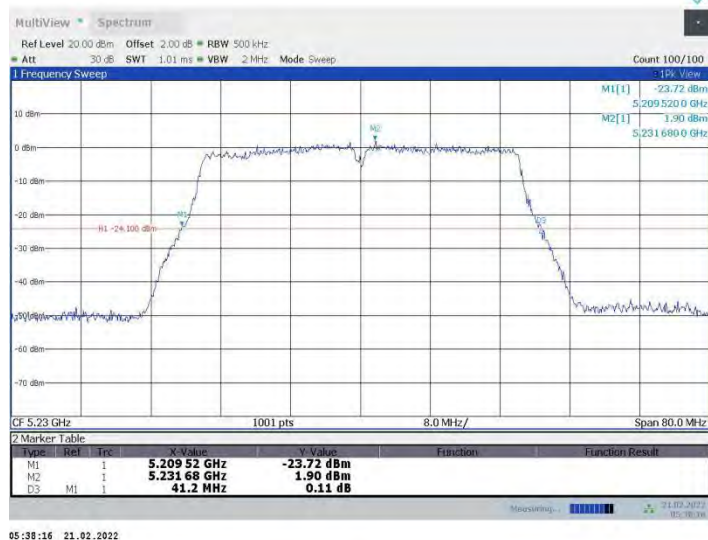
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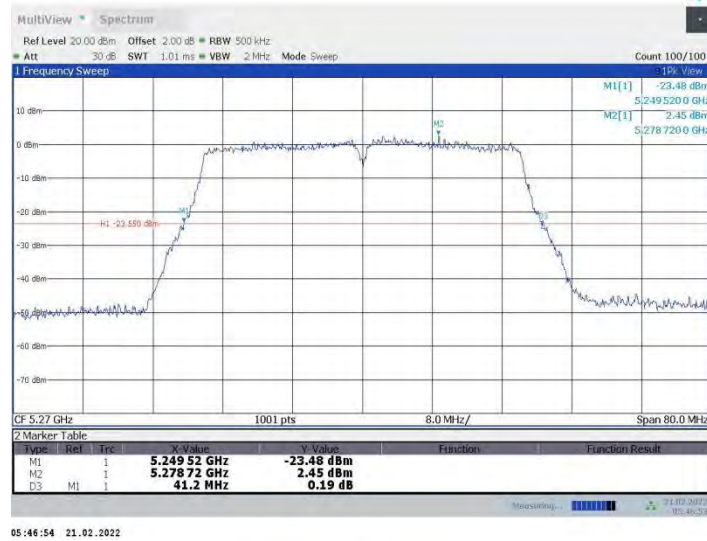


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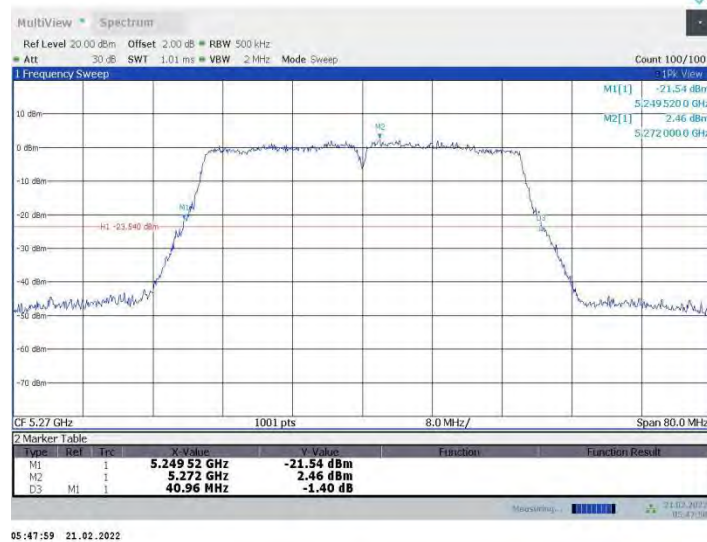
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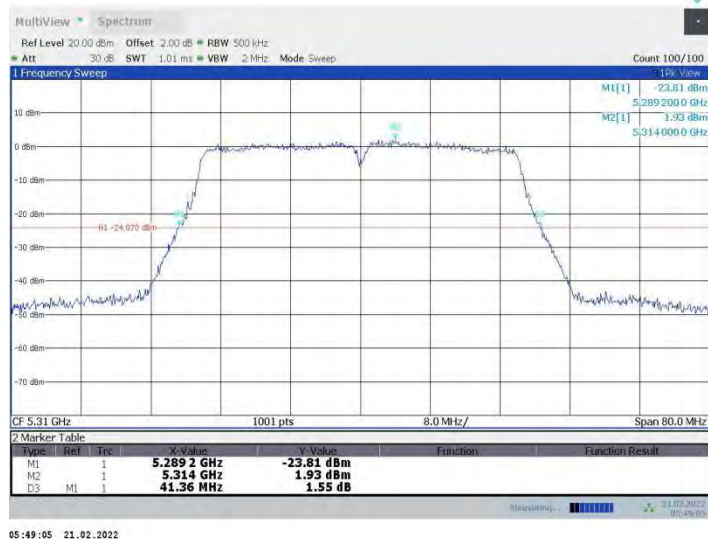


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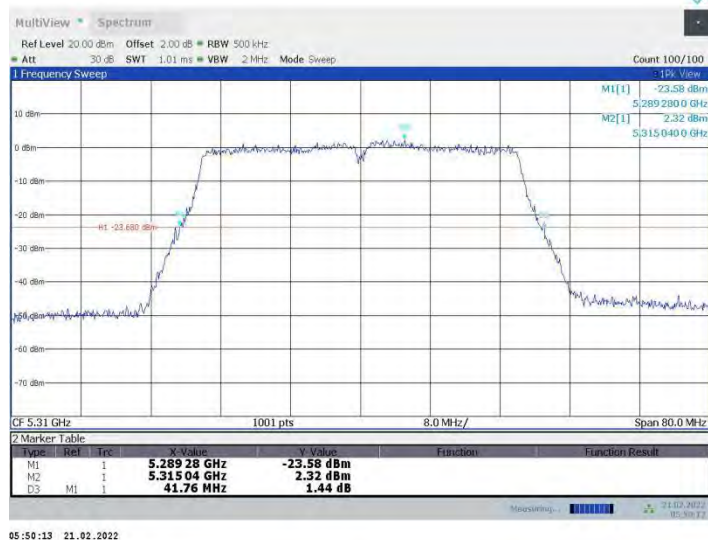
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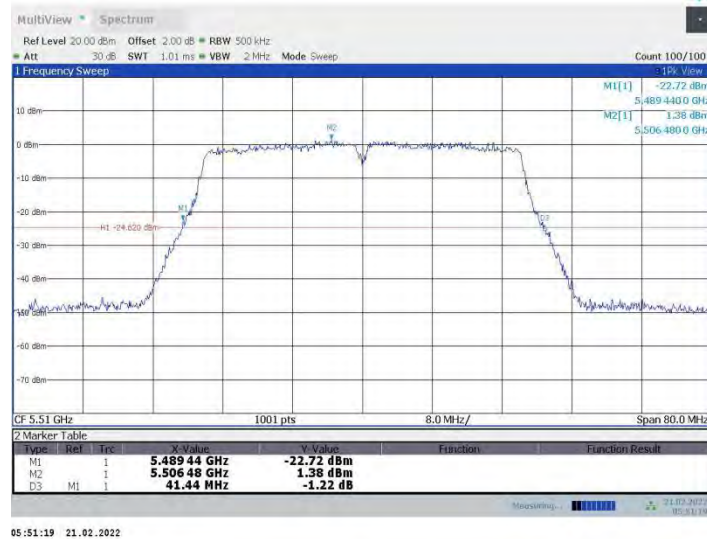
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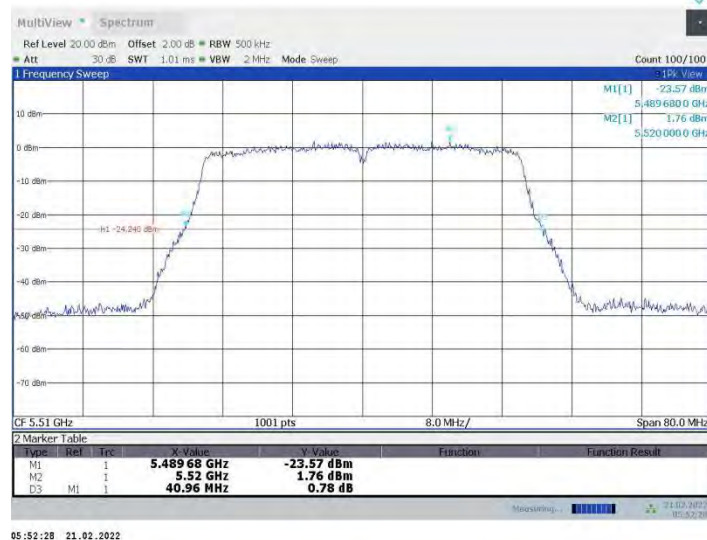
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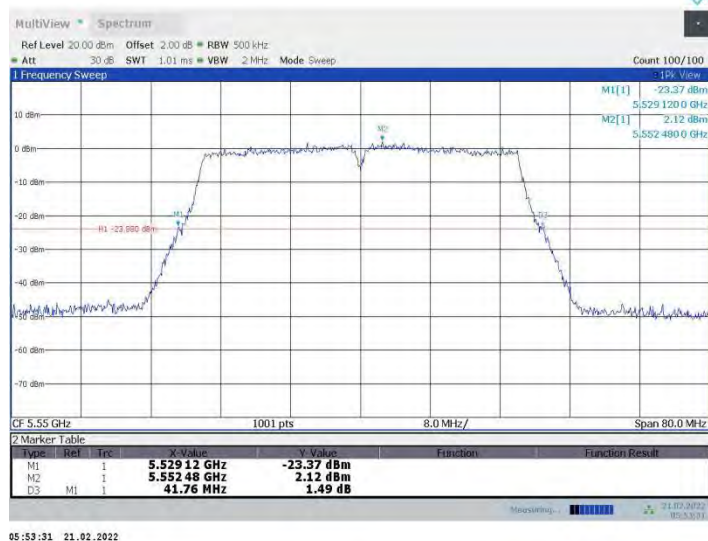
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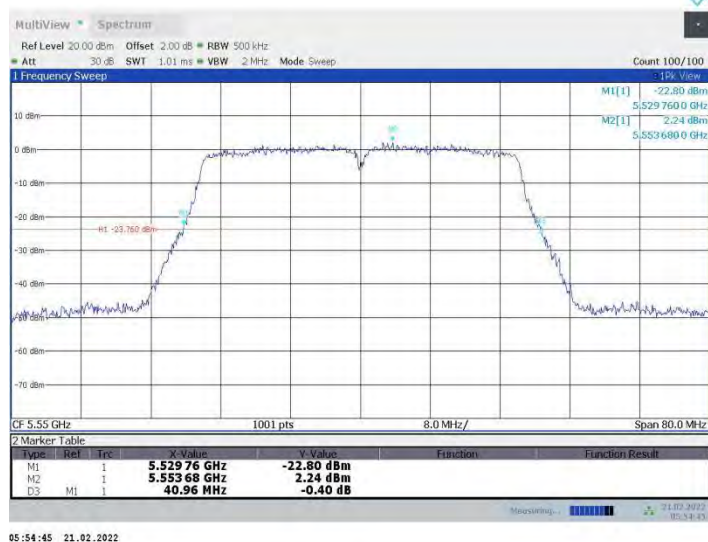
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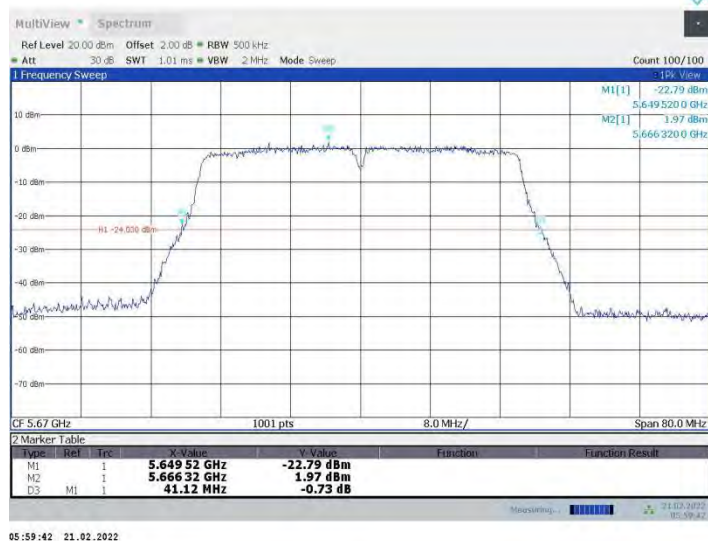
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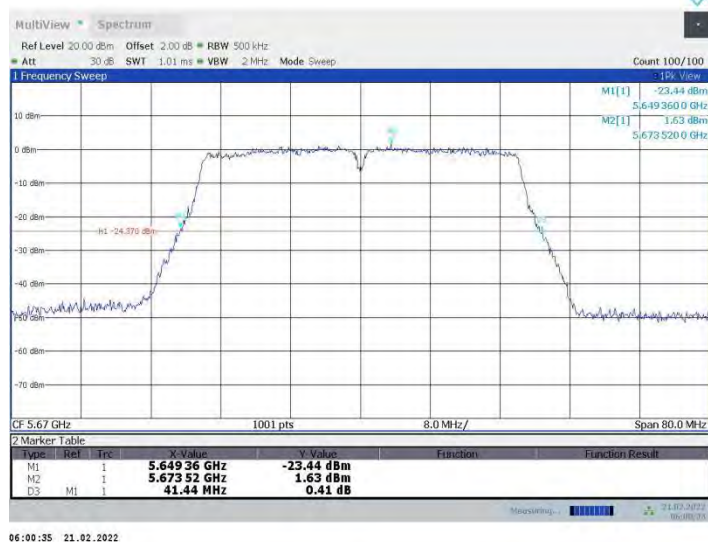
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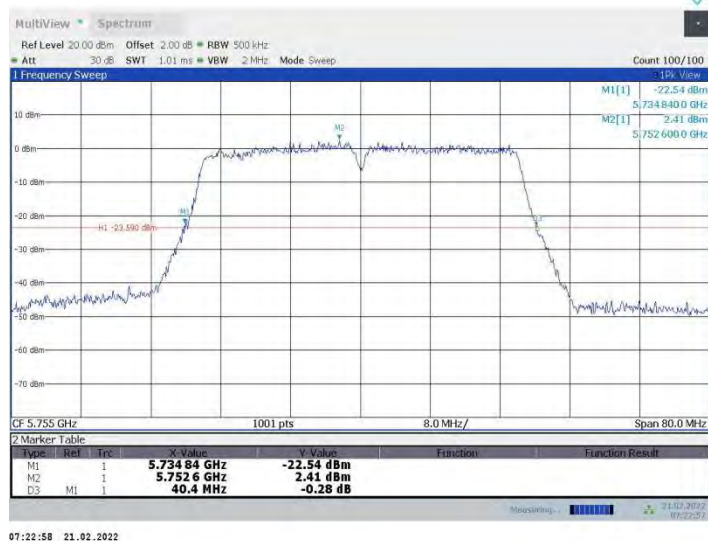
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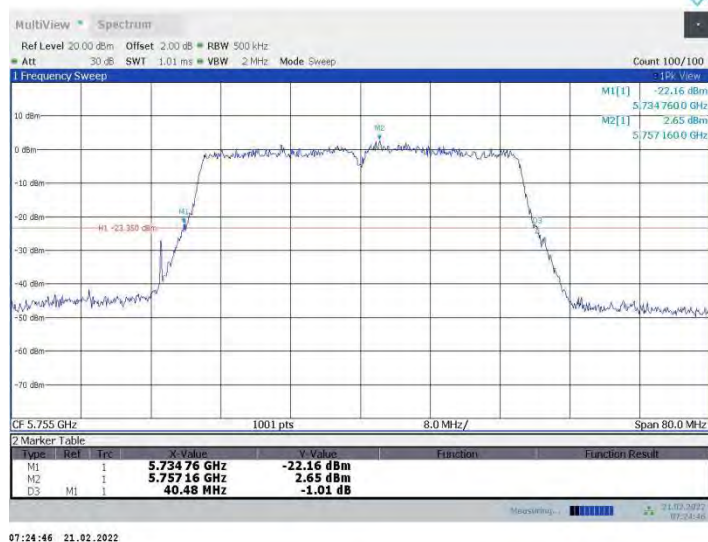
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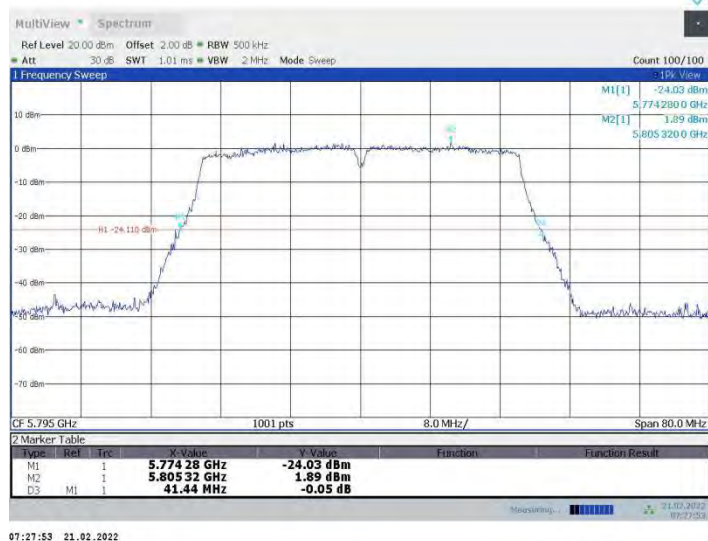
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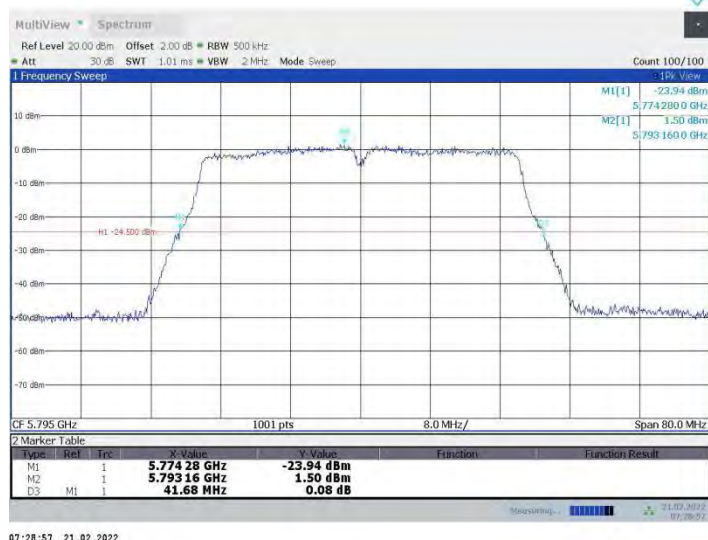
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11ac40MIMO_Ant3_5795



07:27:53 21.02.2022

11ac40MIMO_Ant2_5795



07:28:57 21.02.2022

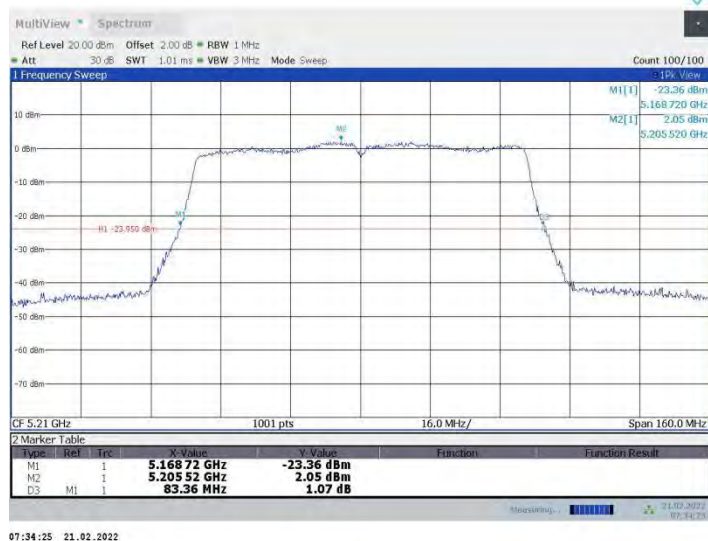


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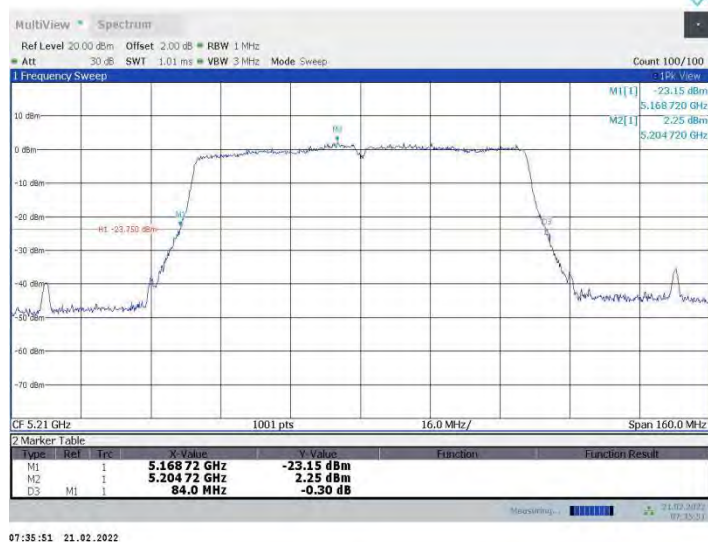
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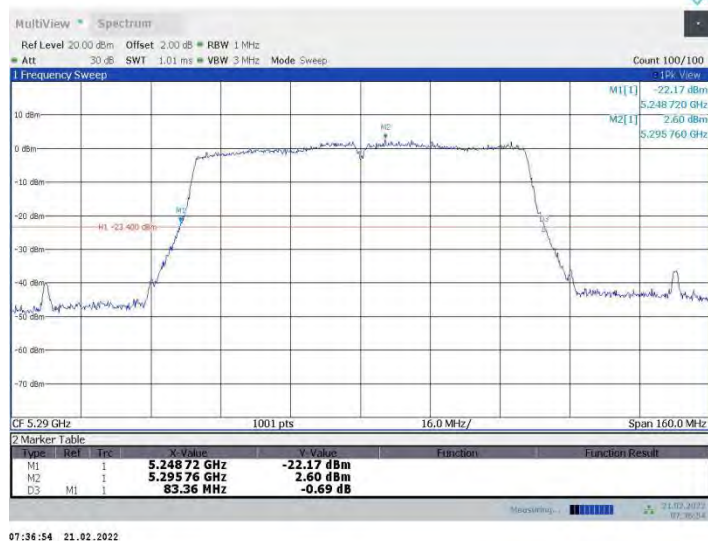
11ac80MIMO_Ant3_5210



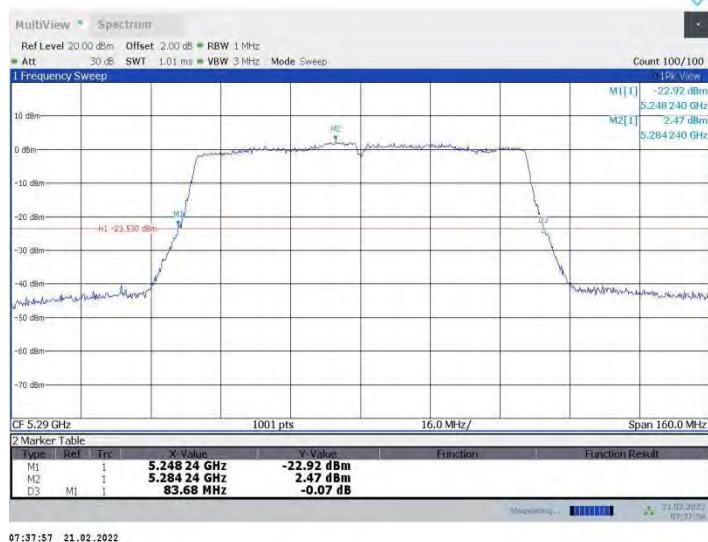
11ac80MIMO_Ant2_5210



11ac80MIMO_Ant3_5290



11ac80MIMO_Ant2_5290



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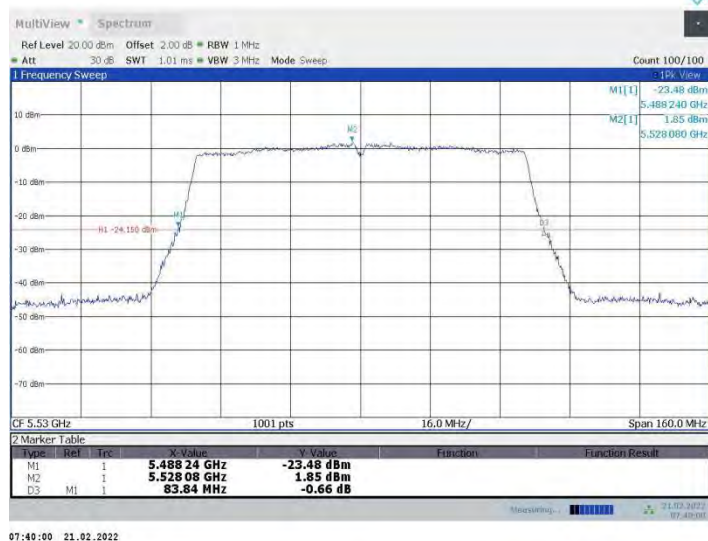
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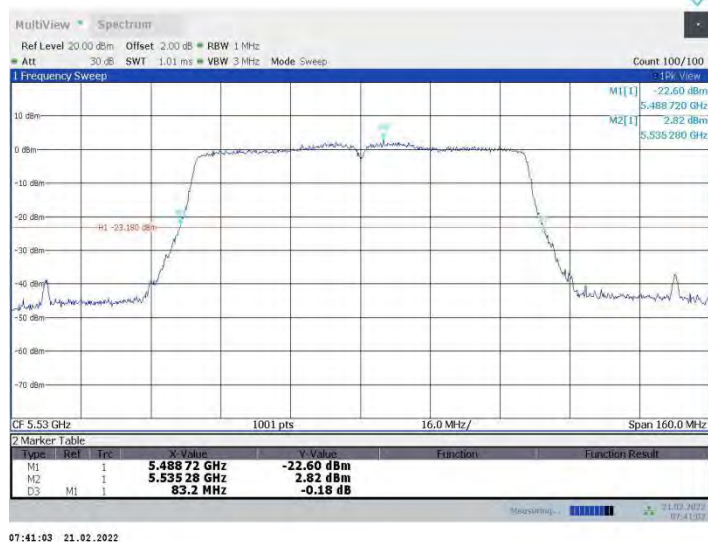
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11ac80MIMO_Ant3_5530



11ac80MIMO_Ant2_5530

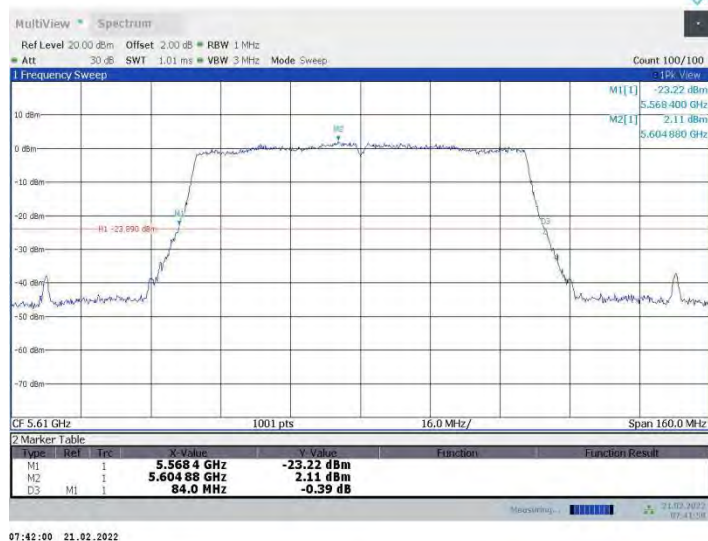


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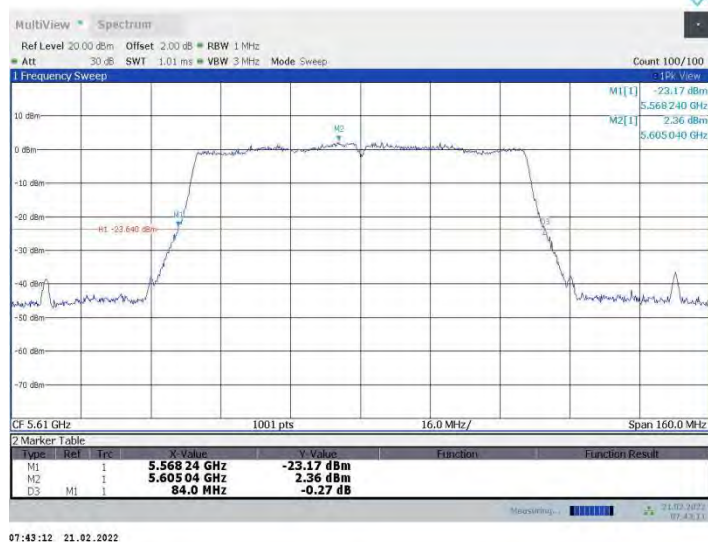
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11ac80MIMO_Ant3_5610



11ac80MIMO_Ant2_5610

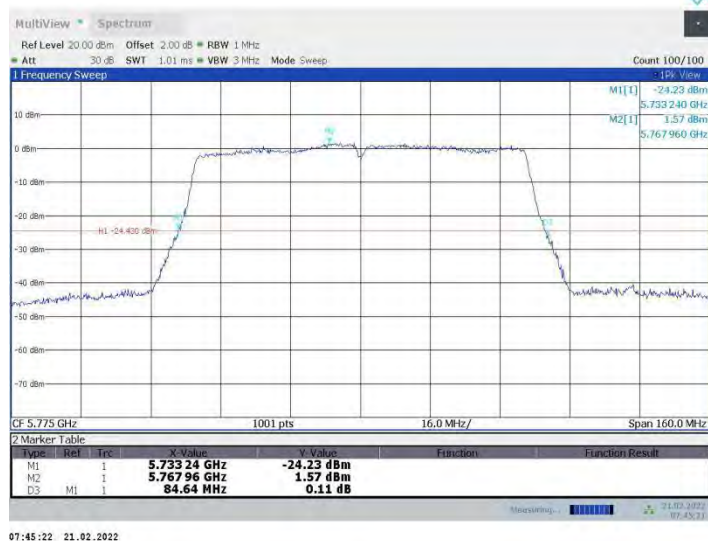


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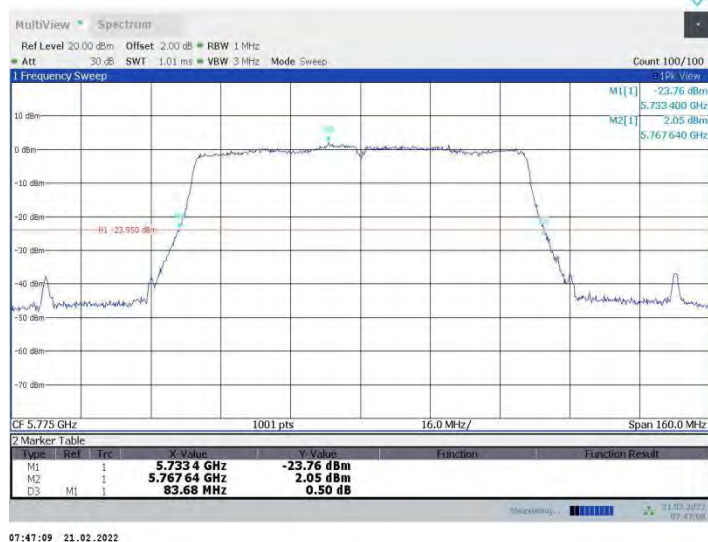
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11ac80MIMO_Ant3_5775



11ac80MIMO_Ant2_5775



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Occupied channel bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11a-CDD	Ant3	5180	17.179	5171.410	5188.589	---	---
	Ant2	5180	16.982	5171.526	5188.509	---	---
	Ant3	5220	17.021	5211.529	5228.550	---	---
	Ant2	5220	17.134	5211.475	5228.609	---	---
	Ant3	5240	17.062	5231.459	5248.521	---	---
	Ant2	5240	16.933	5231.571	5248.504	---	---
	Ant3	5260	16.915	5251.550	5268.465	---	---
	Ant2	5260	16.928	5251.537	5268.465	---	---
	Ant3	5300	16.951	5291.529	5308.480	---	---
	Ant2	5300	16.941	5291.545	5308.485	---	---
	Ant3	5320	16.931	5311.543	5328.474	---	---
	Ant2	5320	17.124	5311.412	5328.536	---	---
	Ant3	5500	17.057	5491.477	5508.534	---	---
	Ant2	5500	17.006	5491.483	5508.490	---	---
	Ant3	5580	17.118	5571.451	5588.569	---	---
	Ant2	5580	16.955	5571.504	5588.459	---	---
	Ant3	5700	17.144	5691.417	5708.561	---	---
	Ant2	5700	16.92	5691.559	5708.479	---	---
	Ant3	5745	16.951	5736.528	5753.479	---	---
	Ant2	5745	17.142	5736.451	5753.593	---	---
	Ant3	5785	17.158	5776.454	5793.612	---	---
	Ant2	5785	16.947	5776.530	5793.476	---	---
	Ant3	5825	16.945	5816.517	5833.462	---	---
	Ant2	5825	17.161	5816.419	5833.580	---	---
11n20MIMO	Ant3	5180	18.239	5170.850	5189.089	---	---
	Ant2	5180	18.201	5170.894	5189.095	---	---
	Ant3	5220	18.264	5210.842	5229.106	---	---
	Ant2	5220	18.131	5210.917	5229.048	---	---
	Ant3	5240	18.124	5230.934	5249.057	---	---



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	Ant2	5240	18.238	5230.863	5249.101	---	---
	Ant3	5260	18.173	5250.951	5269.124	---	---
	Ant2	5260	18.152	5250.972	5269.124	---	---
	Ant3	5300	18.237	5290.894	5309.132	---	---
	Ant2	5300	18.1	5290.975	5309.075	---	---
	Ant3	5320	18.258	5310.852	5329.110	---	---
	Ant2	5320	18.126	5310.944	5329.070	---	---
	Ant3	5500	18.186	5490.864	5509.051	---	---
	Ant2	5500	18.216	5490.885	5509.101	---	---
	Ant3	5580	18.183	5570.894	5589.077	---	---
	Ant2	5580	18.243	5570.882	5589.124	---	---
	Ant3	5700	18.291	5690.855	5709.146	---	---
	Ant2	5700	18.115	5690.938	5709.052	---	---
	Ant3	5745	18.29	5735.846	5754.136	---	---
	Ant2	5745	18.164	5735.920	5754.084	---	---
	Ant3	5785	18.25	5775.881	5794.131	---	---
	Ant2	5785	18.143	5775.917	5794.060	---	---
	Ant3	5825	18.18	5815.875	5834.055	---	---
	Ant2	5825	18.257	5815.864	5834.121	---	---
11n40MIMO	Ant3	5190	36.535	5171.824	5208.359	---	---
	Ant2	5190	36.53	5171.786	5208.316	---	---
	Ant3	5230	36.469	5211.850	5248.319	---	---
	Ant2	5230	36.577	5211.769	5248.347	---	---
	Ant3	5270	36.48	5251.845	5288.325	---	---
	Ant2	5270	36.515	5251.869	5288.384	---	---
	Ant3	5310	36.544	5291.676	5328.219	---	---
	Ant2	5310	36.564	5291.740	5328.304	---	---
	Ant3	5510	36.553	5491.769	5528.322	---	---
	Ant2	5510	36.554	5491.786	5528.340	---	---
	Ant3	5550	36.558	5531.759	5568.317	---	---
	Ant2	5550	36.508	5531.750	5568.257	---	---
	Ant3	5670	36.615	5651.732	5688.347	---	---
	Ant2	5670	36.64	5651.726	5688.366	---	---



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	Ant3	5755	36.512	5736.813	5773.324	---	---
	Ant2	5755	36.576	5736.766	5773.342	---	---
	Ant3	5795	36.594	5776.741	5813.335	---	---
	Ant2	5795	36.612	5776.735	5813.347	---	---
11ac20MIMO	Ant3	5180	18.242	5170.849	5189.091	---	---
	Ant2	5180	18.212	5170.885	5189.097	---	---
	Ant3	5220	18.215	5210.883	5229.098	---	---
	Ant2	5220	18.148	5210.926	5229.074	---	---
	Ant3	5240	18.153	5230.980	5249.133	---	---
	Ant2	5240	18.191	5230.932	5249.123	---	---
	Ant3	5260	18.191	5250.911	5269.102	---	---
	Ant2	5260	18.168	5250.942	5269.110	---	---
	Ant3	5300	18.245	5290.896	5309.141	---	---
	Ant2	5300	18.103	5290.981	5309.083	---	---
	Ant3	5320	18.071	5310.969	5329.040	---	---
	Ant2	5320	18.098	5310.949	5329.047	---	---
	Ant3	5500	18.24	5490.880	5509.120	---	---
	Ant2	5500	18.194	5490.872	5509.066	---	---
	Ant3	5580	18.292	5570.833	5589.126	---	---
	Ant2	5580	18.061	5570.960	5589.021	---	---
	Ant3	5700	18.274	5690.847	5709.121	---	---
	Ant2	5700	18.162	5690.897	5709.059	---	---
	Ant3	5745	18.274	5735.856	5754.131	---	---
	Ant2	5745	18.143	5735.915	5754.058	---	---
	Ant3	5785	18.145	5775.900	5794.045	---	---
	Ant2	5785	18.136	5775.907	5794.043	---	---
	Ant3	5825	18.182	5815.941	5834.122	---	---
	Ant2	5825	18.196	5815.902	5834.098	---	---
11ac40MIMO	Ant3	5190	36.558	5171.805	5208.363	---	---
	Ant2	5190	36.508	5171.826	5208.334	---	---
	Ant3	5230	36.505	5211.825	5248.330	---	---
	Ant2	5230	36.593	5211.772	5248.364	---	---
	Ant3	5270	36.524	5251.796	5288.320	---	---



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	Ant2	5270	36.586	5251.684	5288.270	---	---
	Ant3	5310	36.497	5291.754	5328.251	---	---
	Ant2	5310	36.621	5291.720	5328.341	---	---
	Ant3	5510	36.537	5491.771	5528.308	---	---
	Ant2	5510	36.425	5491.801	5528.226	---	---
	Ant3	5550	36.545	5531.734	5568.279	---	---
	Ant2	5550	36.467	5531.765	5568.231	---	---
	Ant3	5670	36.483	5651.771	5688.254	---	---
	Ant2	5670	36.458	5651.835	5688.294	---	---
	Ant3	5755	36.566	5736.705	5773.270	---	---
	Ant2	5755	36.529	5736.722	5773.251	---	---
	Ant3	5795	36.546	5776.775	5813.321	---	---
	Ant2	5795	36.545	5776.768	5813.313	---	---
11ac80MIMO	Ant3	5210	76.009	5172.186	5248.194	---	---
	Ant2	5210	75.973	5172.227	5248.200	---	---
	Ant3	5290	75.928	5252.236	5328.163	---	---
	Ant2	5290	75.978	5252.189	5328.168	---	---
	Ant3	5530	76.05	5492.035	5568.085	---	---
	Ant2	5530	75.842	5492.136	5567.978	---	---
	Ant3	5610	76.054	5572.079	5648.133	---	---
	Ant2	5610	76.055	5572.053	5648.108	---	---
	Ant3	5775	76.056	5737.151	5813.208	---	---
	Ant2	5775	76.054	5737.089	5813.143	---	---



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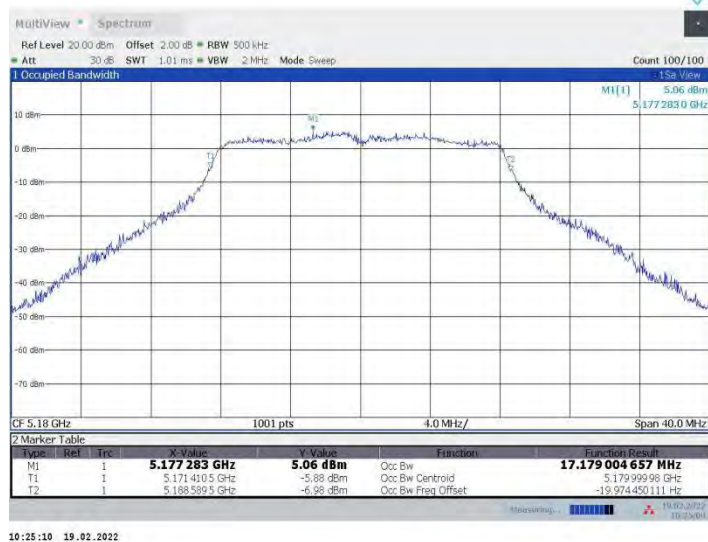
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Test Graphs

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11a-CDD Ant2 5180



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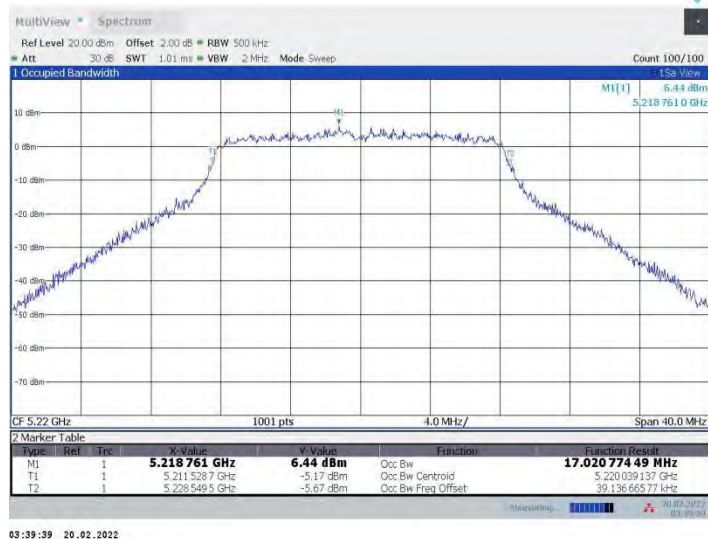
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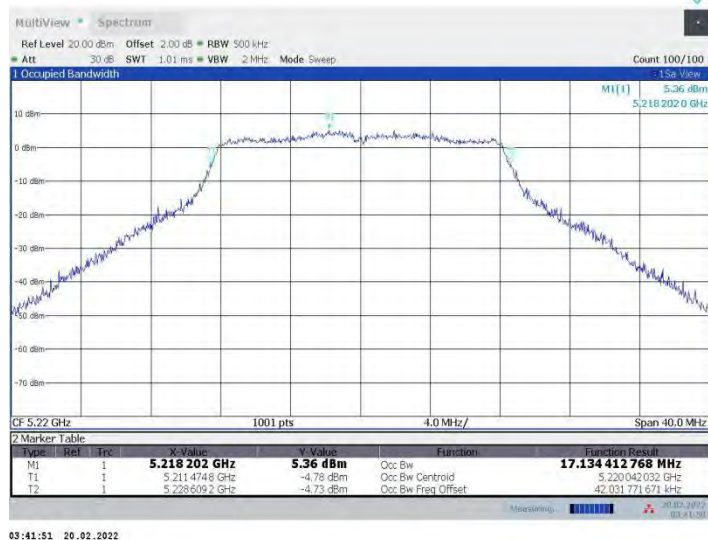
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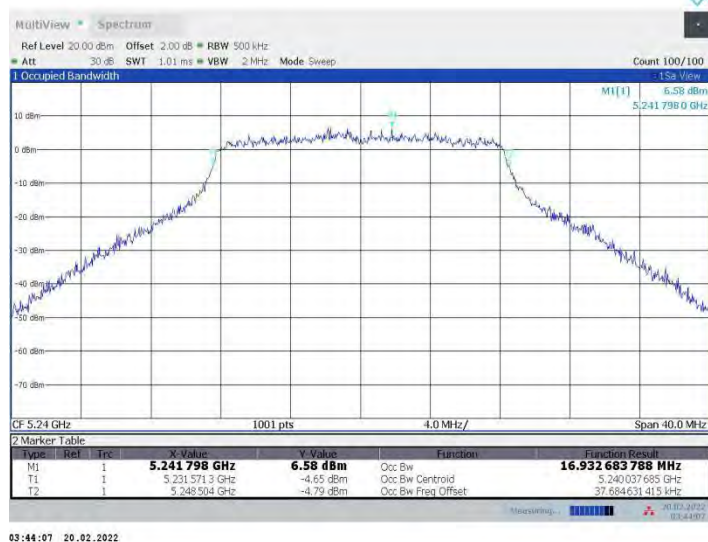
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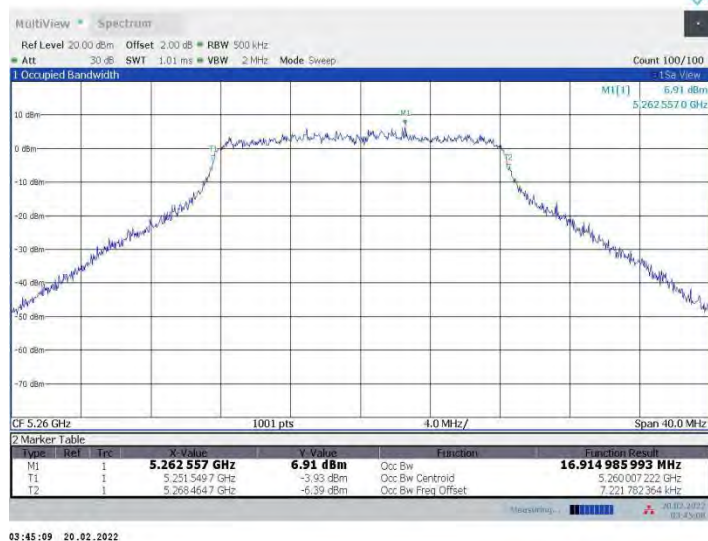
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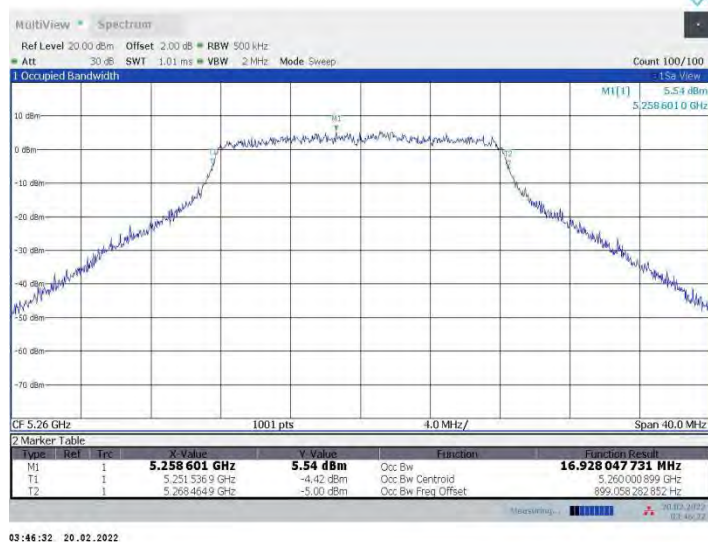
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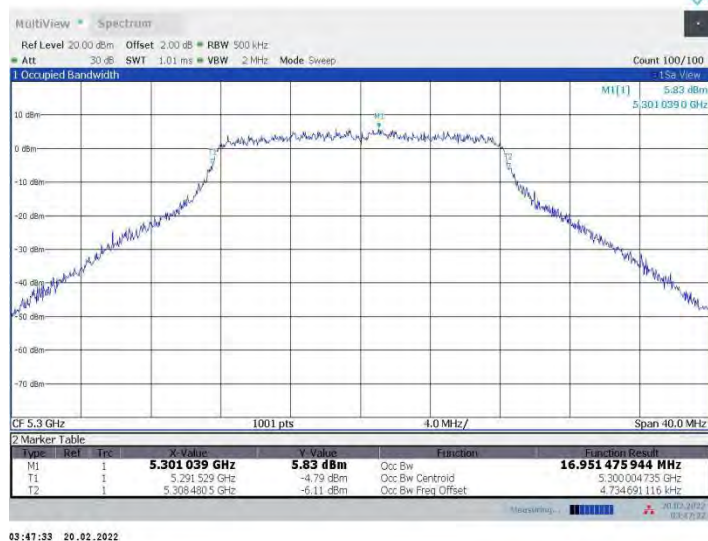
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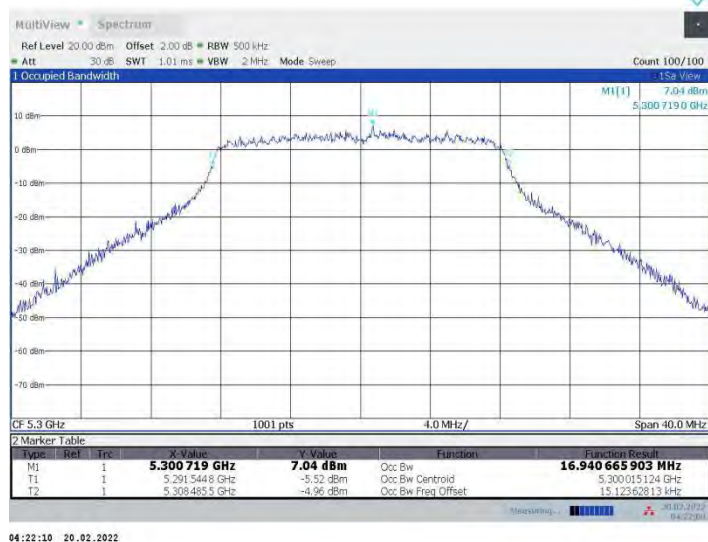
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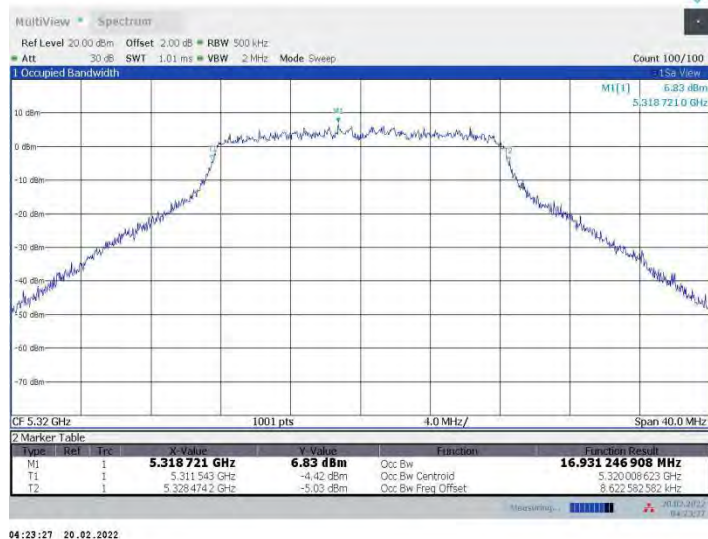
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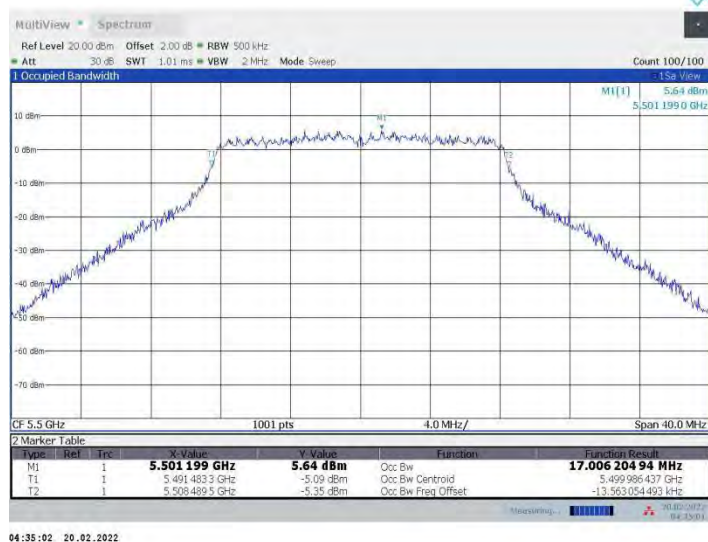
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