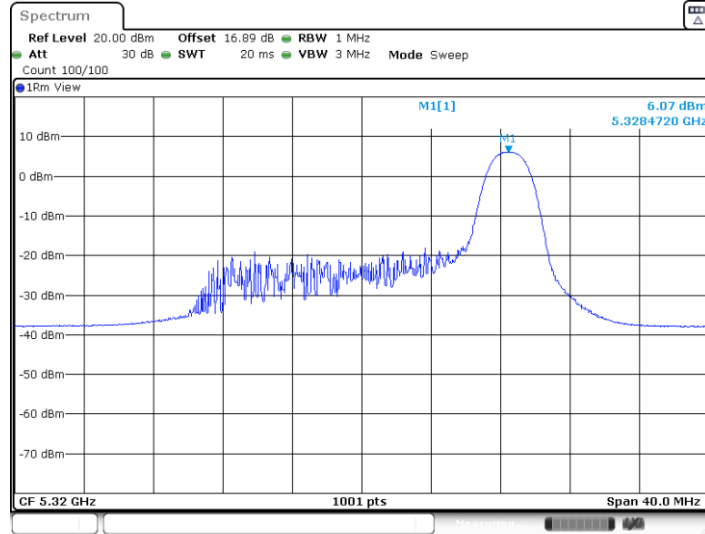


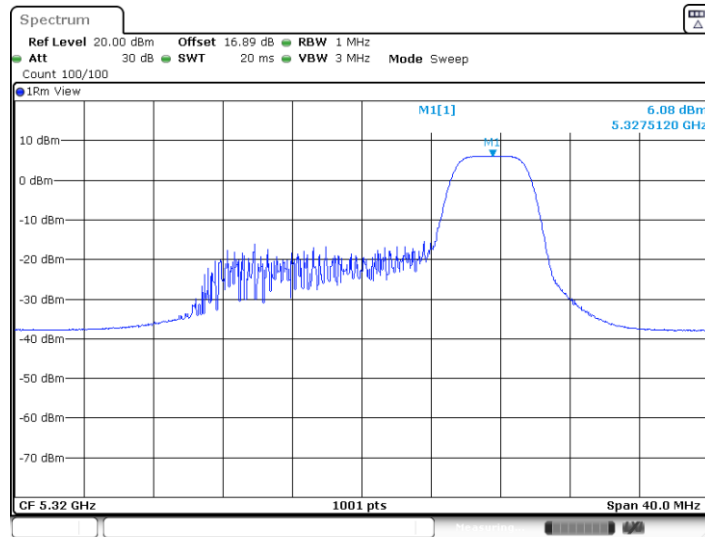


11AX20MIMO_Ant7_5320_26Tone_RU8



Date: 27.FEB.2023 15:50:37

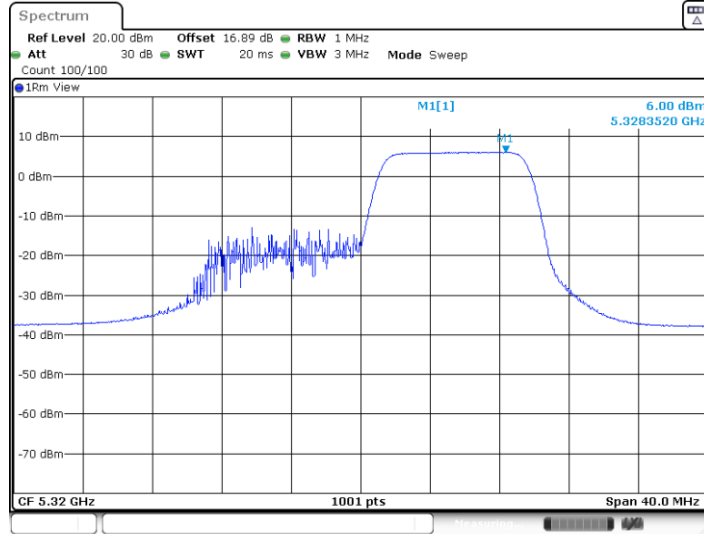
11AX20MIMO_Ant7_5320_52Tone_RU40



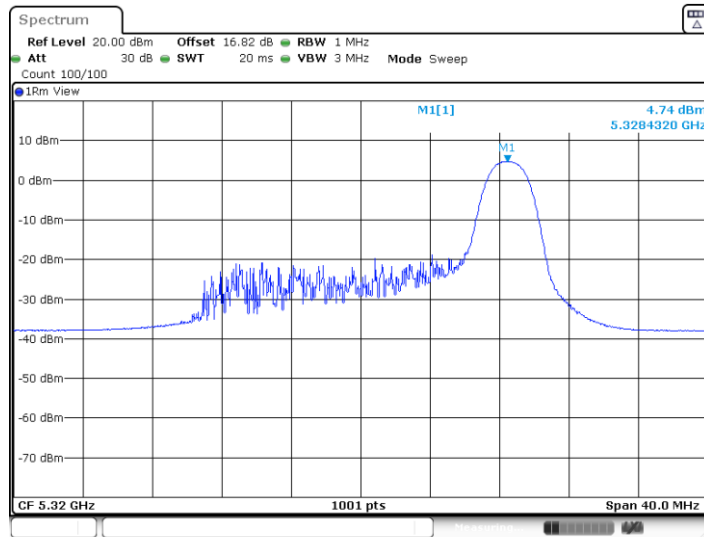
Date: 27.FEB.2023 15:51:32



11AX20MIMO_Ant7_5320_106Tone_RU54

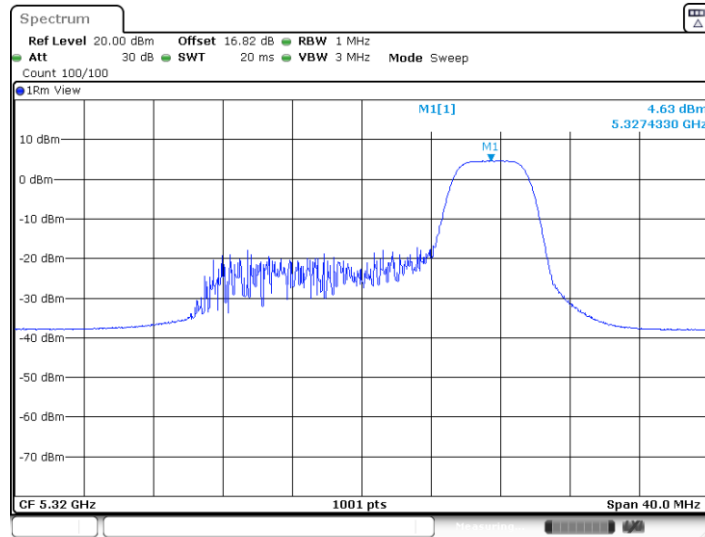


11AX20MIMO_Ant8_5320_26Tone_RU8



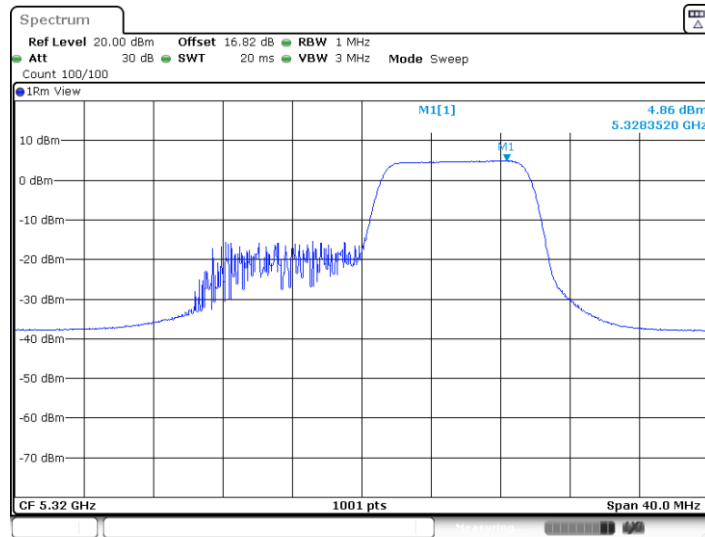


11AX20MIMO_Ant8_5320_52Tone_RU40



Date: 27.FEB.2023 15:51:52

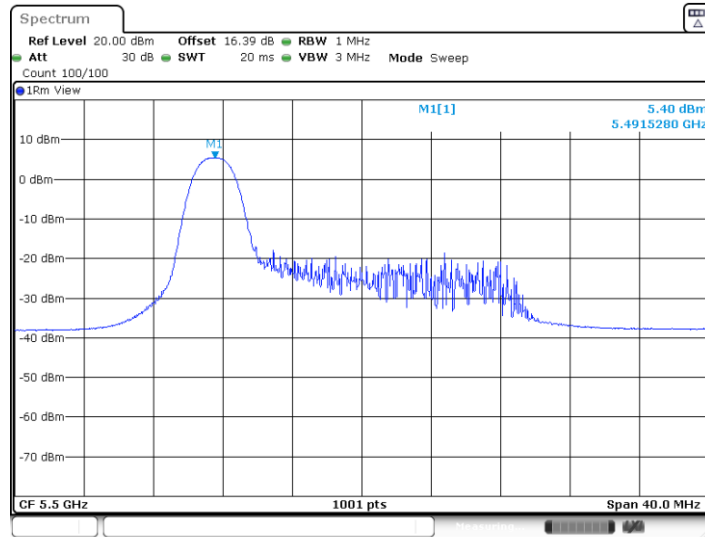
11AX20MIMO_Ant8_5320_106Tone_RU54



Date: 27.FEB.2023 15:52:44

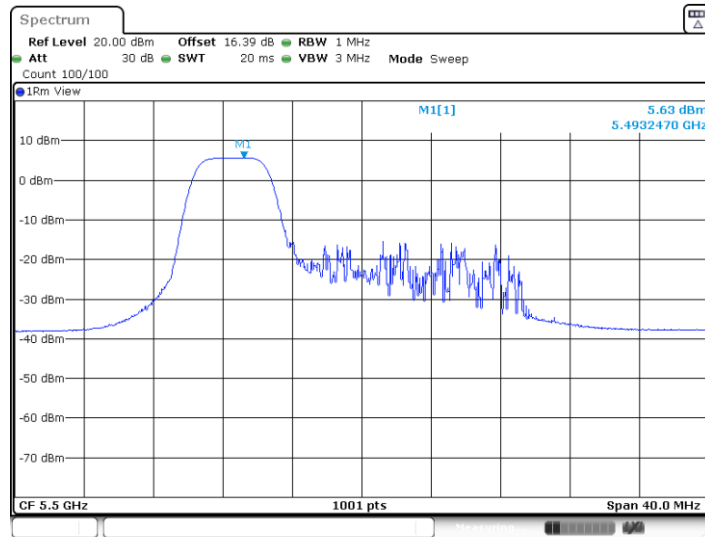


11AX20MIMO_Ant7_5500_26Tone_RU0



Date: 27.FEB.2023 15:56:19

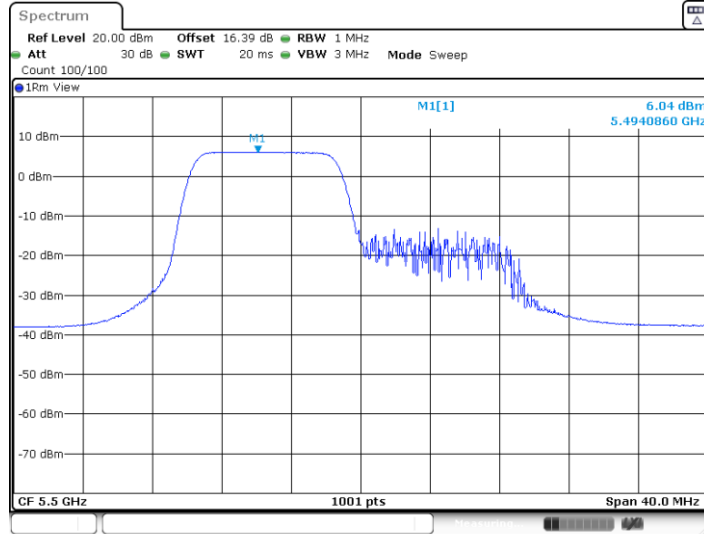
11AX20MIMO_Ant7_5500_52Tone_RU37



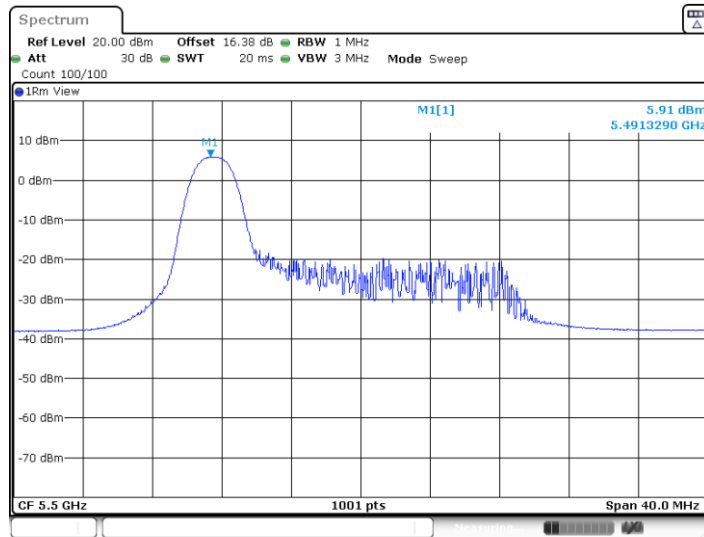
Date: 27.FEB.2023 15:58:03



11AX20MIMO_Ant7_5500_106Tone_RU53

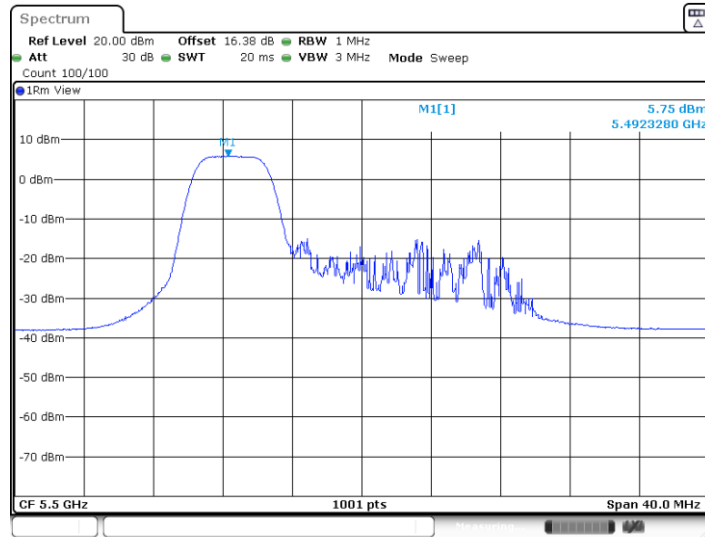


11AX20MIMO_Ant8_5500_26Tone_RU0

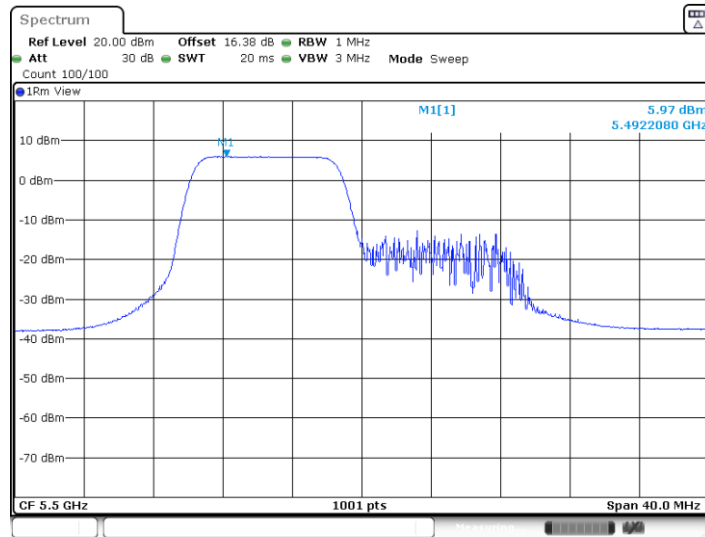




11AX20MIMO_Ant8_5500_52Tone_RU37

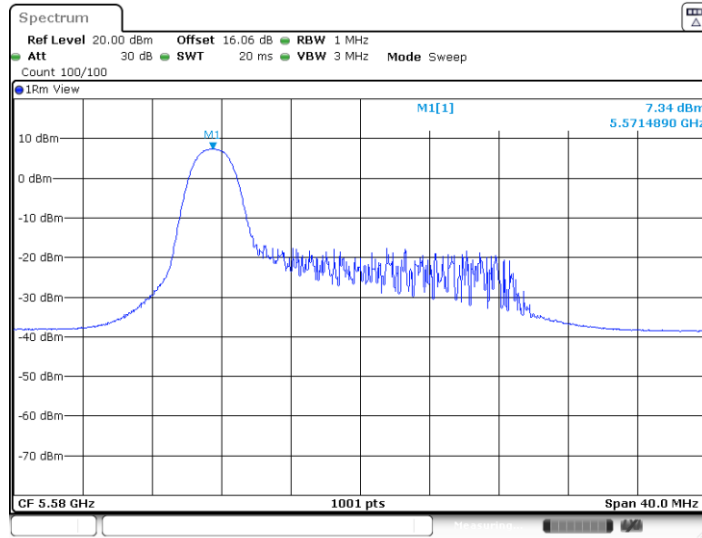


11AX20MIMO_Ant8_5500_106Tone_RU53



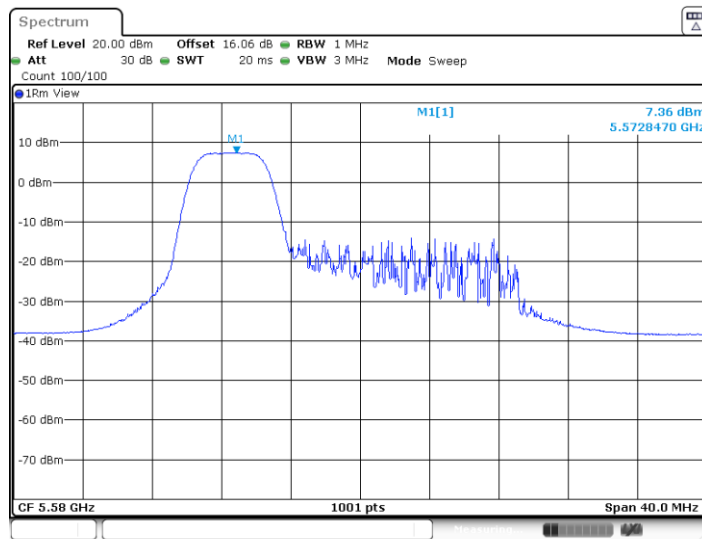


11AX20MIMO_Ant7_5580_26Tone_RU0



Date: 9.FEB.2023 16:27:38

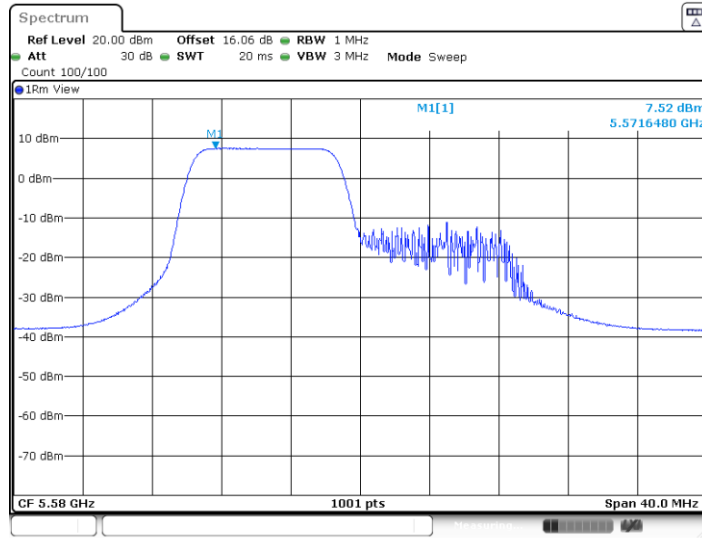
11AX20MIMO_Ant7_5580_52Tone_RU37



Date: 9.FEB.2023 16:28:48

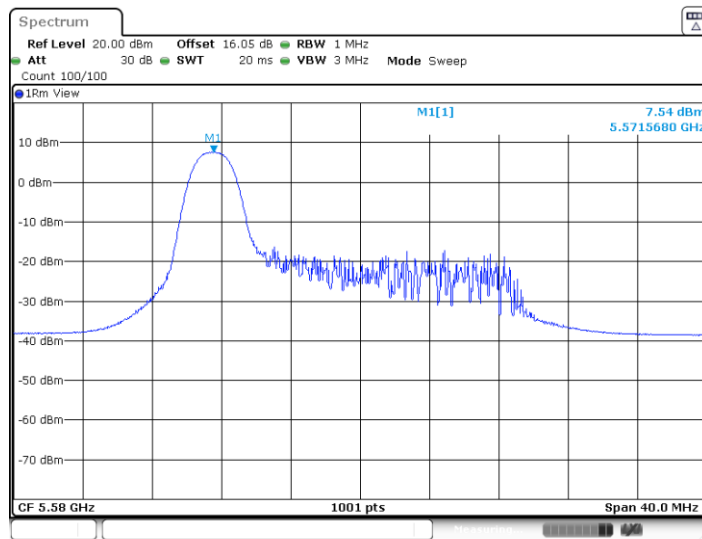


11AX20MIMO_Ant7_5580_106Tone_RU53



Date: 9.FEB.2023 16:30:24

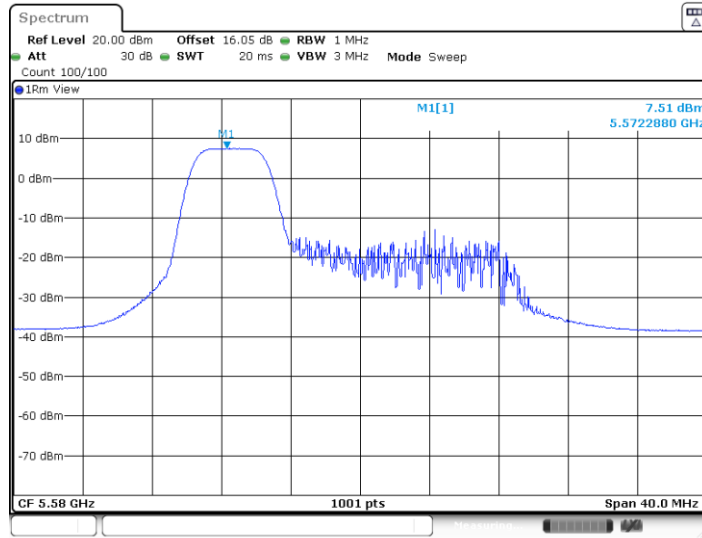
11AX20MIMO_Ant8_5580_26Tone_RU0



Date: 9.FEB.2023 16:27:49

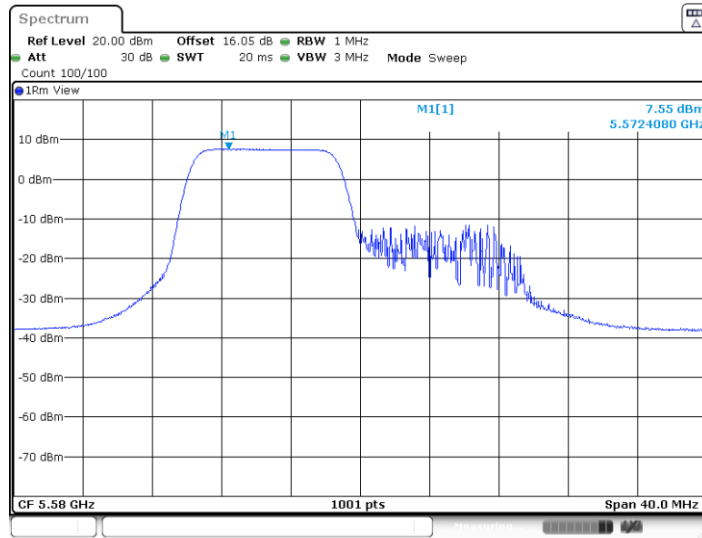


11AX20MIMO_Ant8_5580_52Tone_RU37



Date: 9.FEB.2023 16:29:29

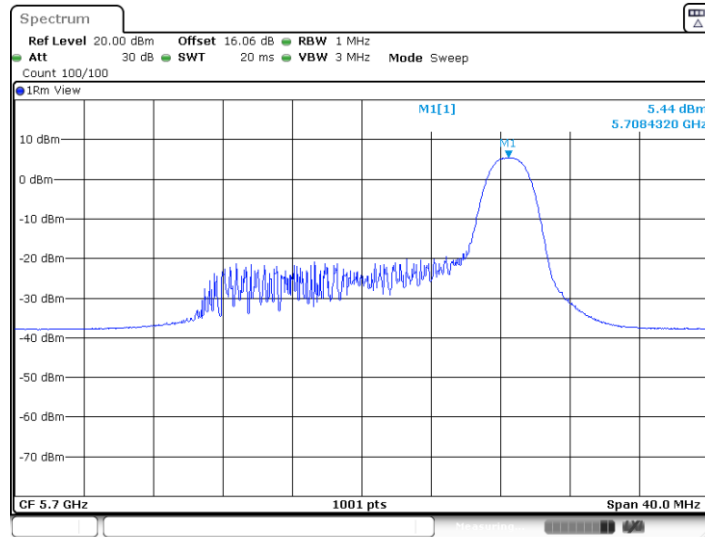
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Date: 9.FEB.2023 16:31:01

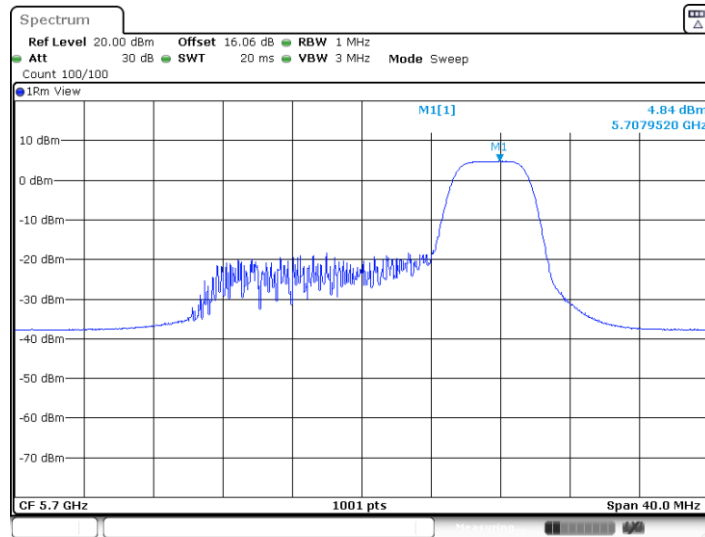


11AX20MIMO_Ant7_5700_26Tone_RU8



Date: 27.FEB.2023 16:05:34

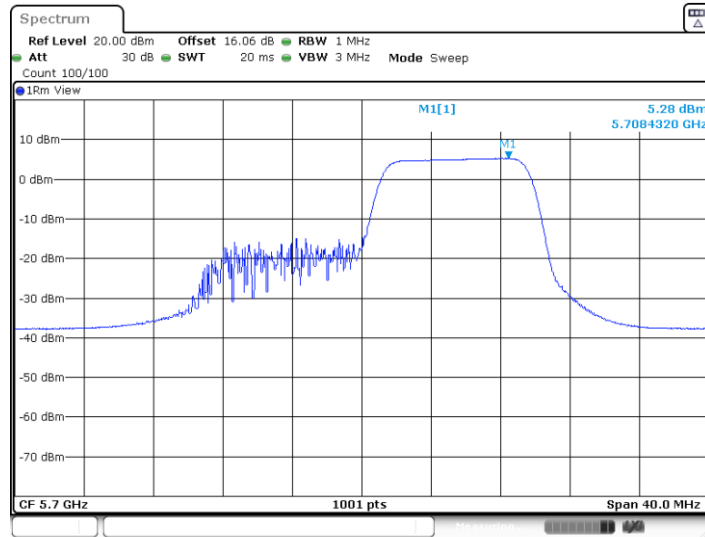
11AX20MIMO_Ant7_5700_52Tone_RU40



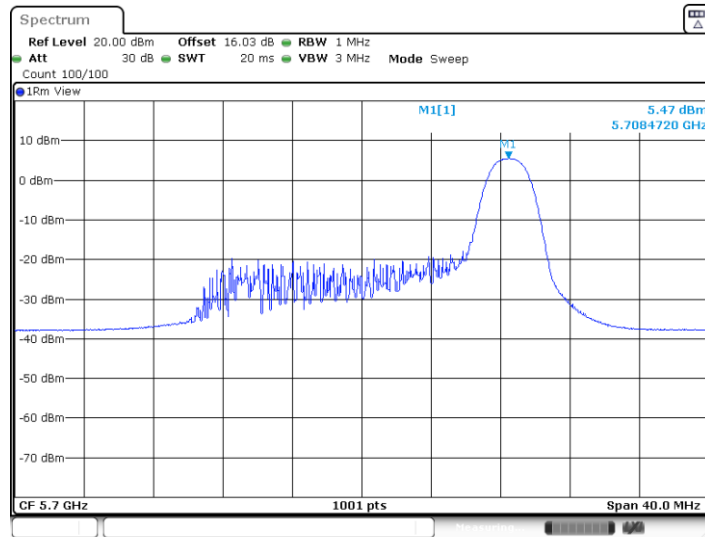
Date: 27.FEB.2023 16:06:30



11AX20MIMO_Ant7_5700_106Tone_RU54

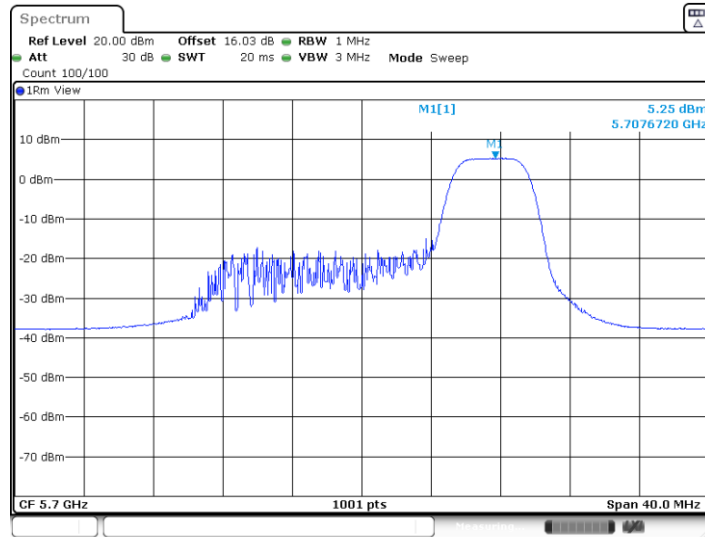


11AX20MIMO_Ant8_5700_26Tone_RU8



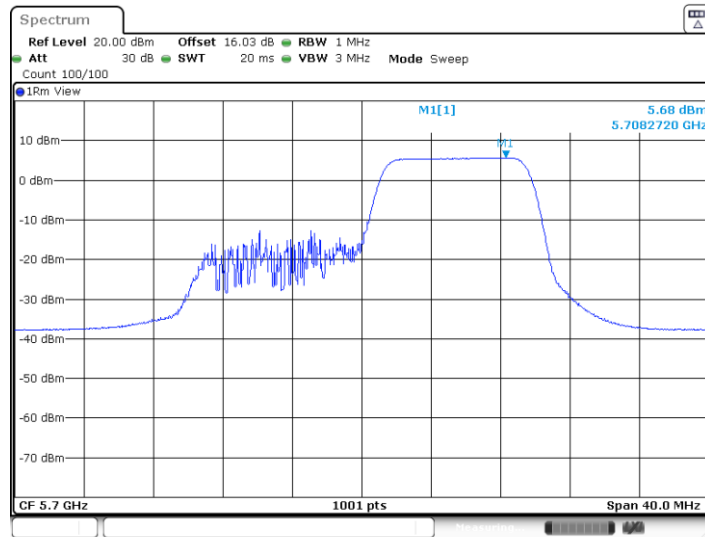


11AX20MIMO_Ant8_5700_52Tone_RU40



Date: 27.FEB.2023 16:06:50

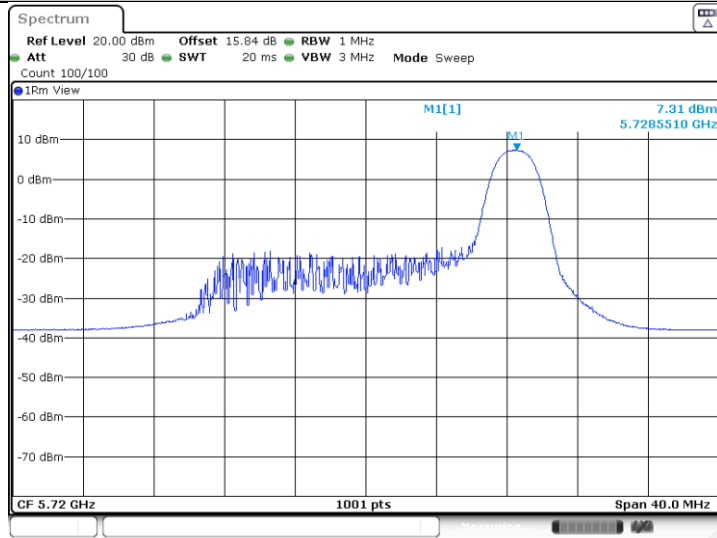
11AX20MIMO_Ant8_5700_106Tone_RU54



Date: 27.FEB.2023 16:11:32

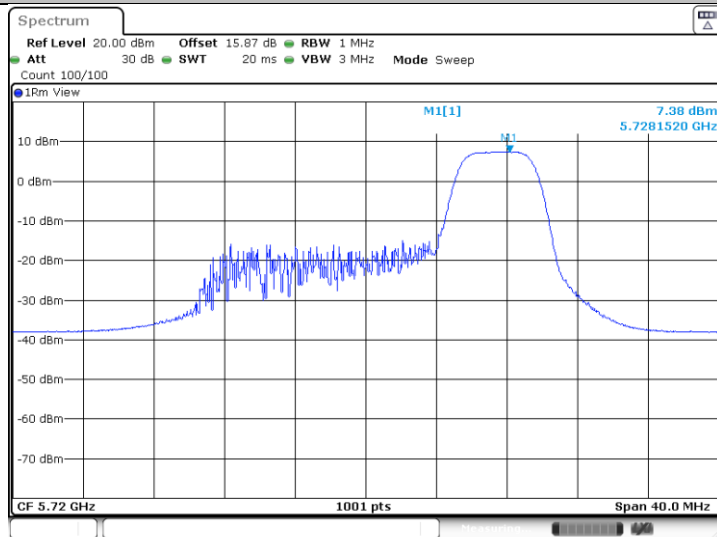


11AX20MIMO_Ant7_5720_26Tone_RU8



Date: 9.FEB.2023 16:45:44

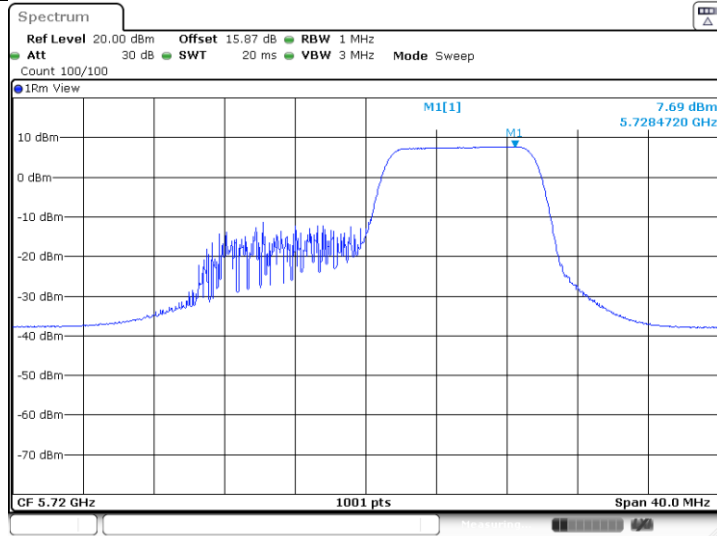
11AX20MIMO_Ant7_5720_52Tone_RU40



Date: 9.FEB.2023 17:32:30

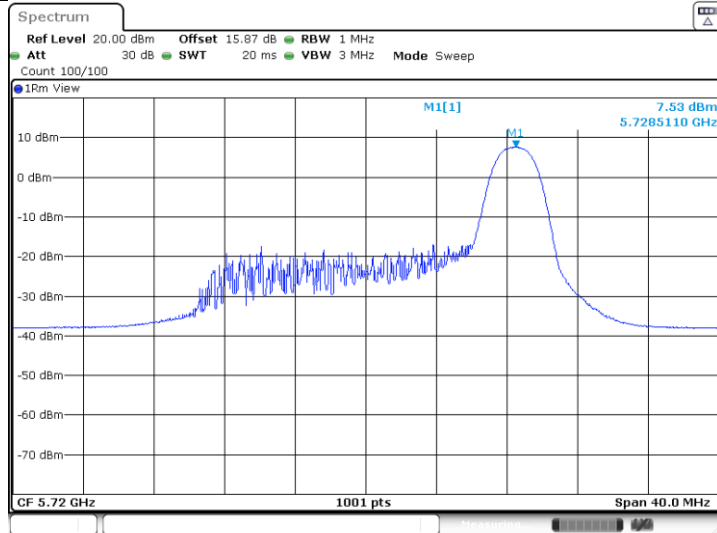


11AX20MIMO_Ant7_5720_106Tone_RU54



Date: 9.FEB.2023 17:39:24

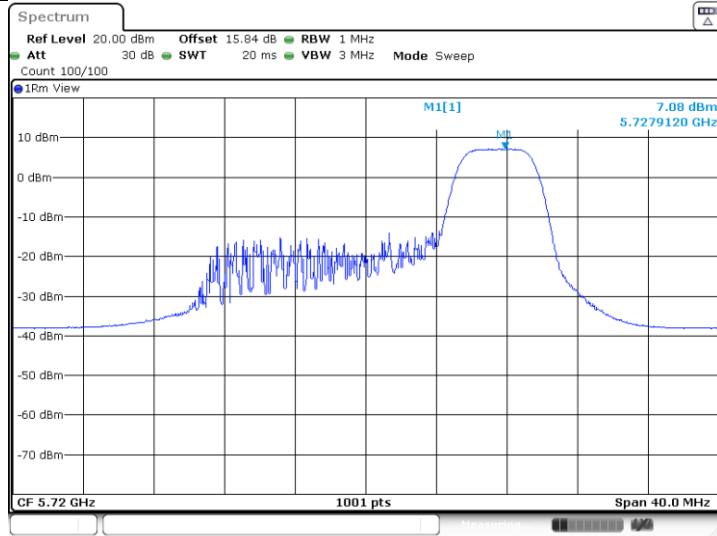
11AX20MIMO_Ant8_5720_26Tone_RU8



Date: 9.FEB.2023 16:43:18

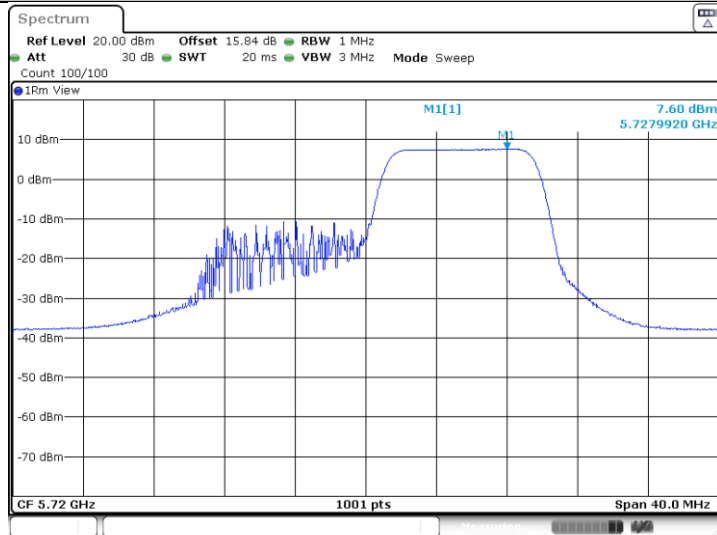


11AX20MIMO_Ant8_5720_52Tone_RU40



Date: 9.FEB.2023 17:34:07

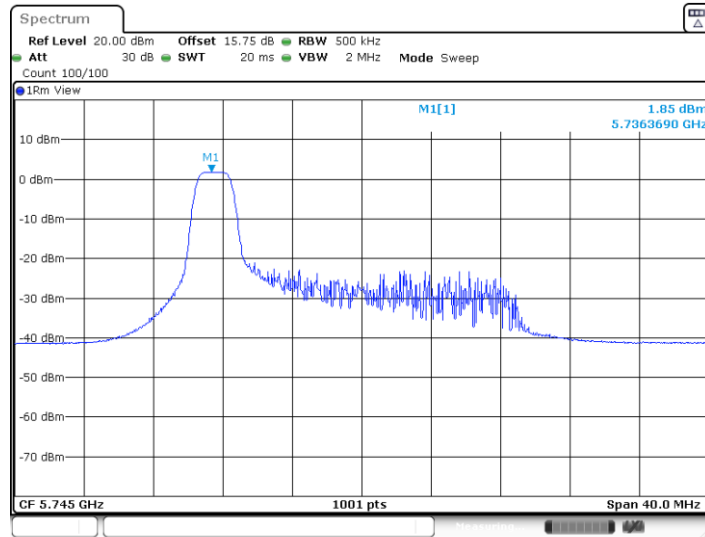
11AX20MIMO_Ant8_5720_106Tone_RU54



Date: 9.FEB.2023 17:40:10

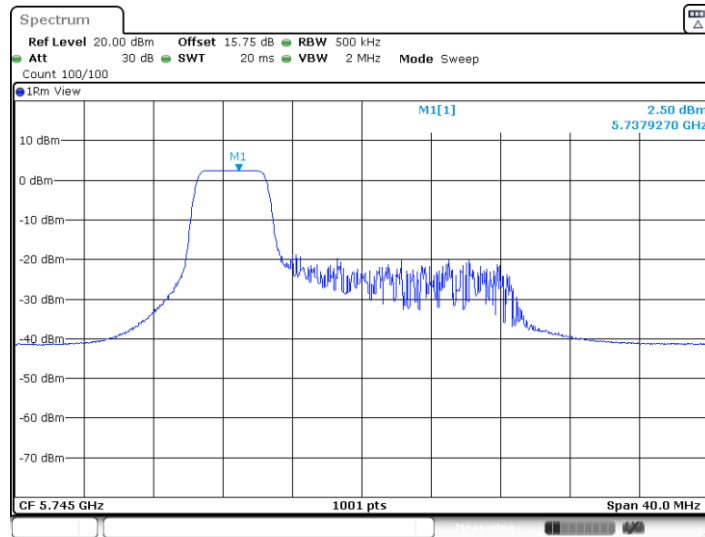


11AX20MIMO_Ant7_5745_26Tone_RU0



Date: 31.MAR.2023 13:11:52

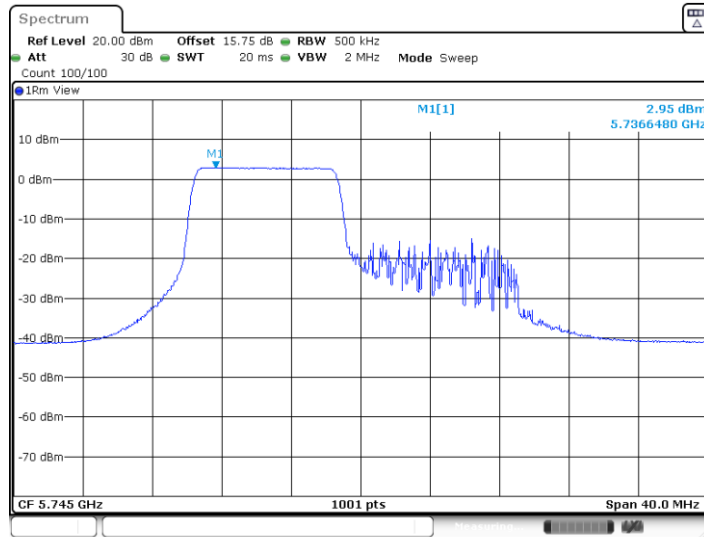
11AX20MIMO_Ant8_5745_52Tone_RU37



Date: 31.MAR.2023 13:18:56

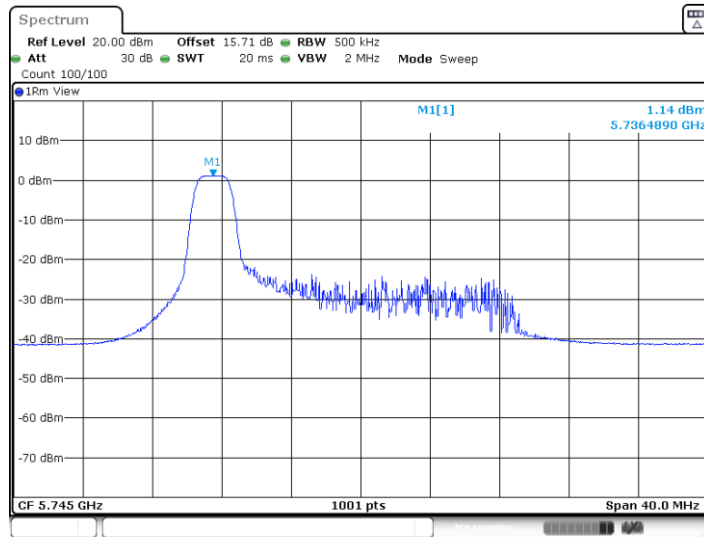


11AX20MIMO_Ant7_5745_106Tone_RU53



Date: 31.MAR.2023 13:18:00

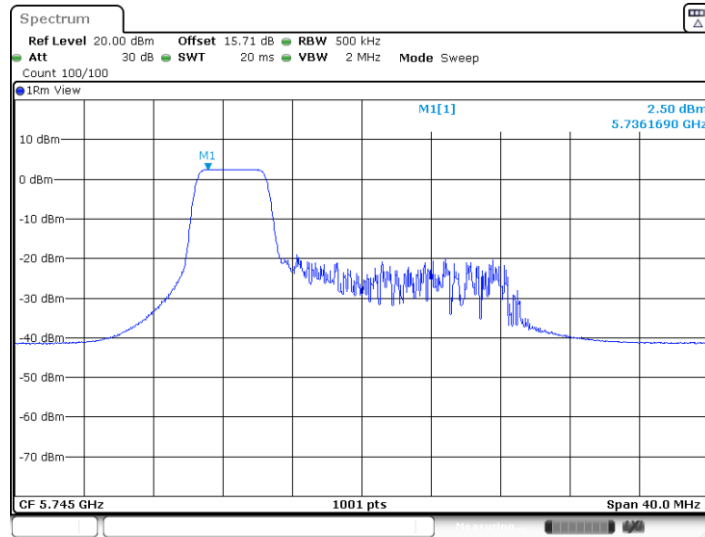
11AX20MIMO_Ant8_5745_26Tone_RU0



Date: 31.MAR.2023 13:12:03

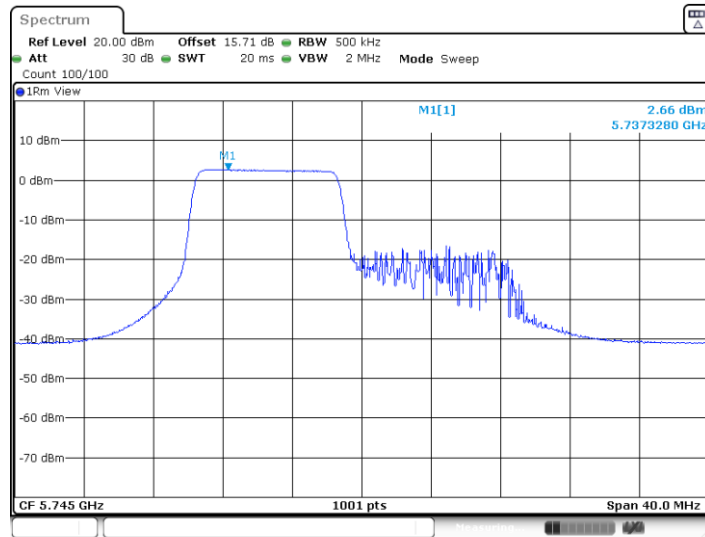


11AX20MIMO_Ant8_5745_52Tone_RU37



Date: 31.MAR.2023 13:19:08

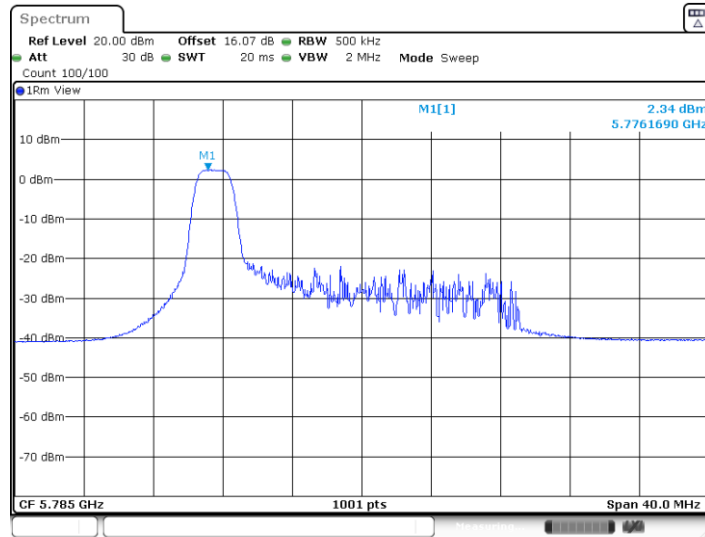
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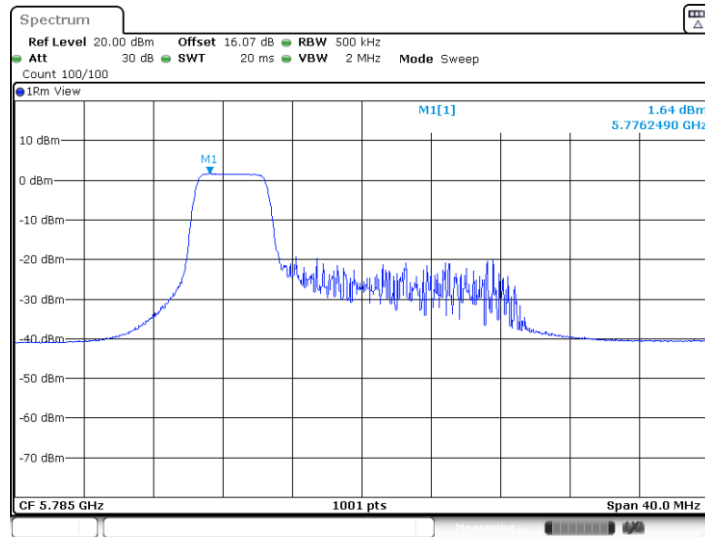
Date: 31.MAR.2023 13:18:12



11AX20MIMO_Ant7_5785_26Tone_RU0

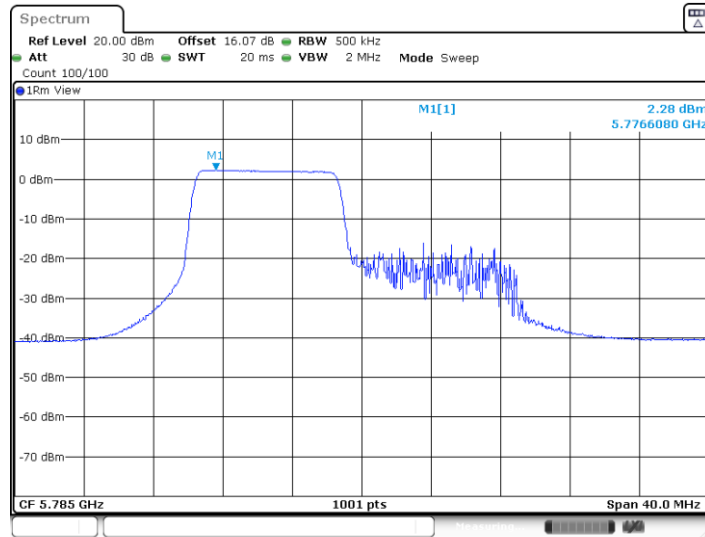


11AX20MIMO_Ant7_5785_52Tone_RU37

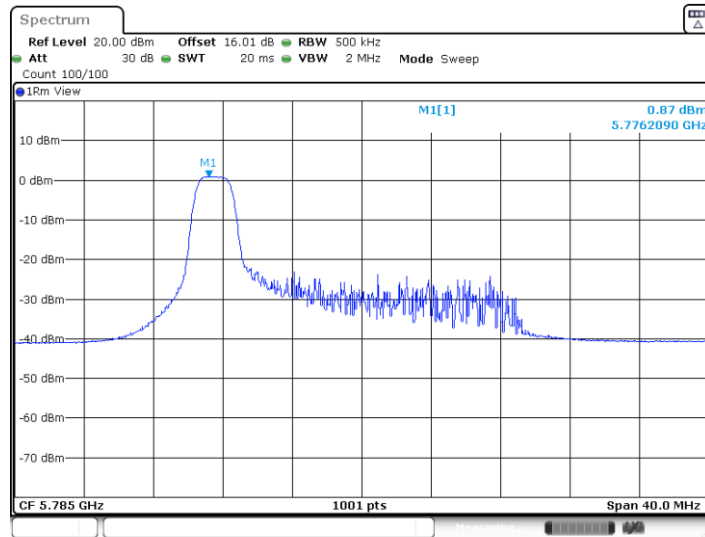




11AX20MIMO_Ant7_5785_106Tone_RU53

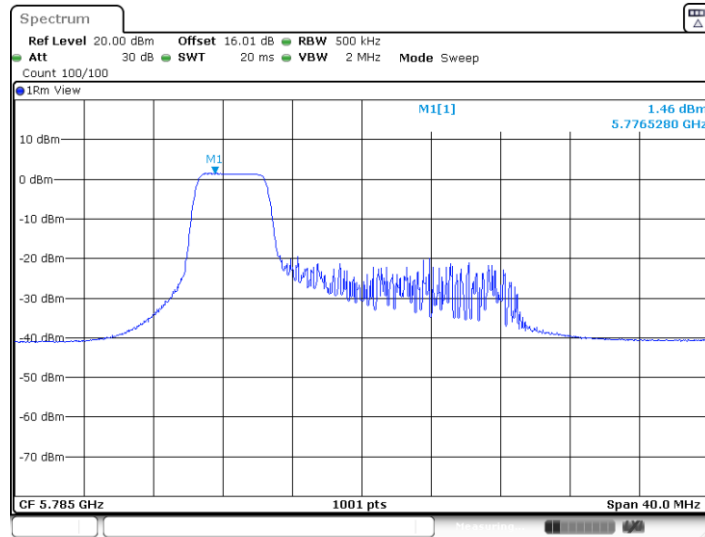


11AX20MIMO_Ant8_5785_26Tone_RU0



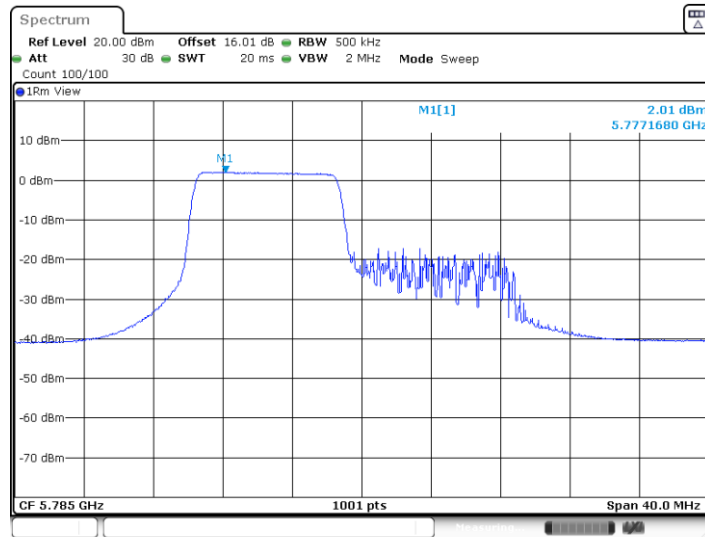


11AX20MIMO_Ant8_5785_52Tone_RU37



Date: 31.MAR.2023 13:23:20

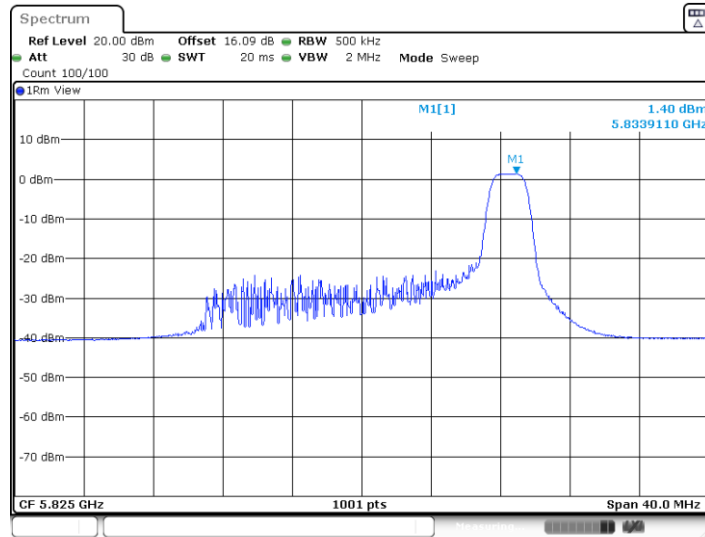
11AX20MIMO_Ant8_5785_106Tone_RU53



Date: 31.MAR.2023 13:24:23

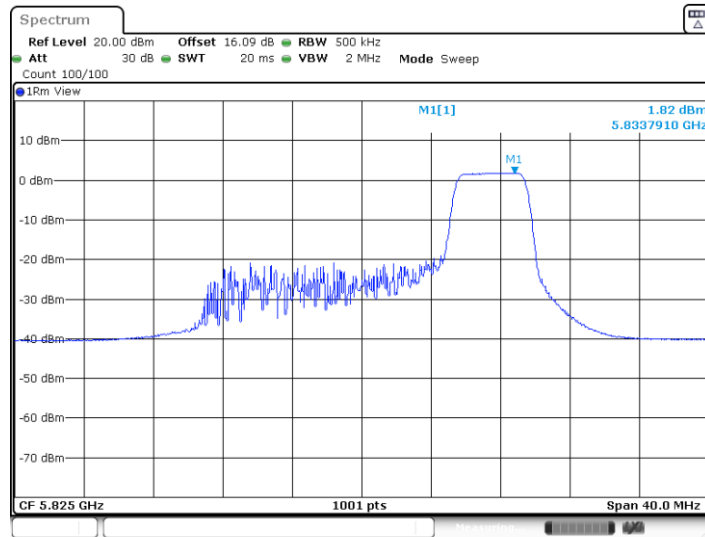


11AX20MIMO_Ant7_5825_26Tone_RU8



Date: 31.MAR.2023 13:25:34

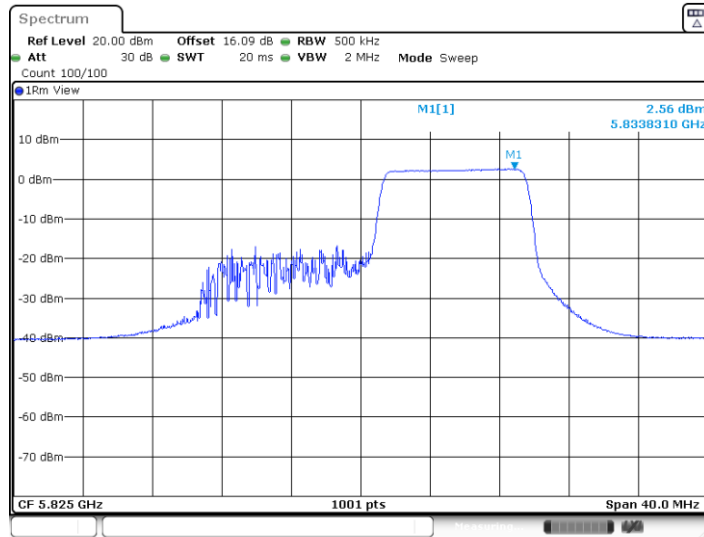
11AX20MIMO_Ant7_5825_52Tone_RU40



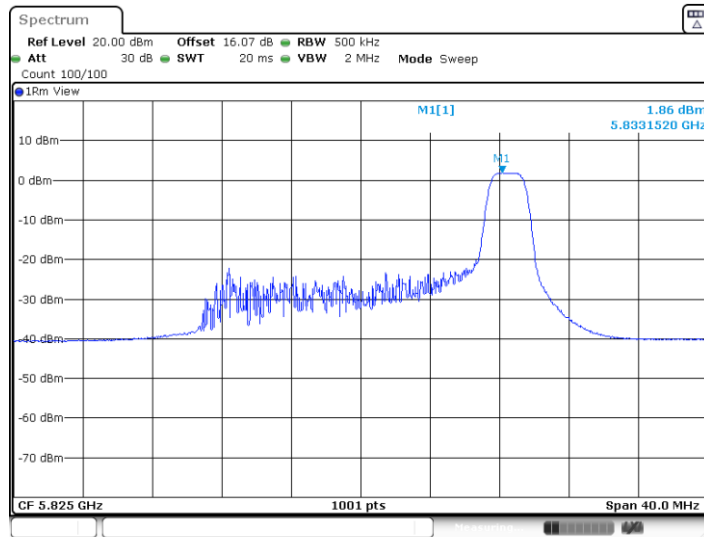
Date: 31.MAR.2023 13:29:07



11AX20MIMO_Ant7_5825_106Tone_RU54

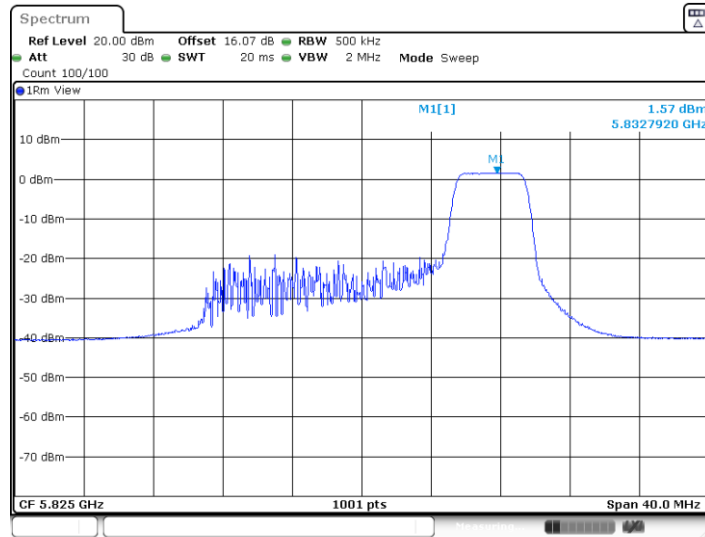


11AX20MIMO_Ant8_5825_26Tone_RU8



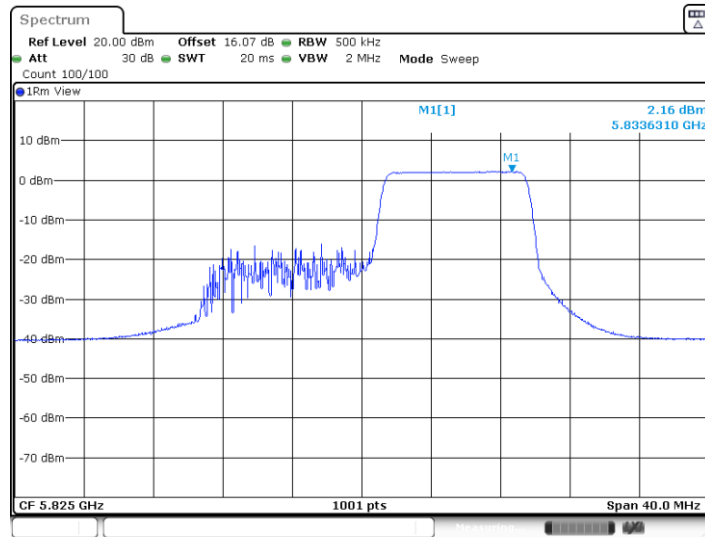


11AX20MIMO_Ant8_5825_52Tone_RU40



Date: 31.MAR.2023 13:29:18

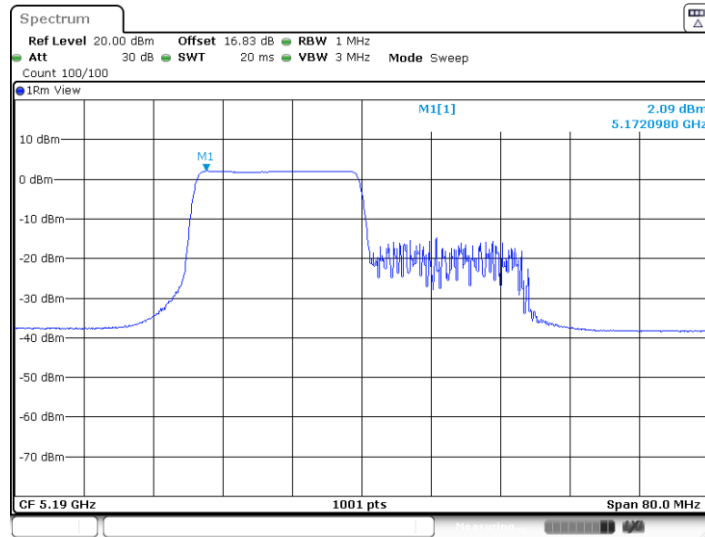
11AX20MIMO_Ant8_5825_106Tone_RU54



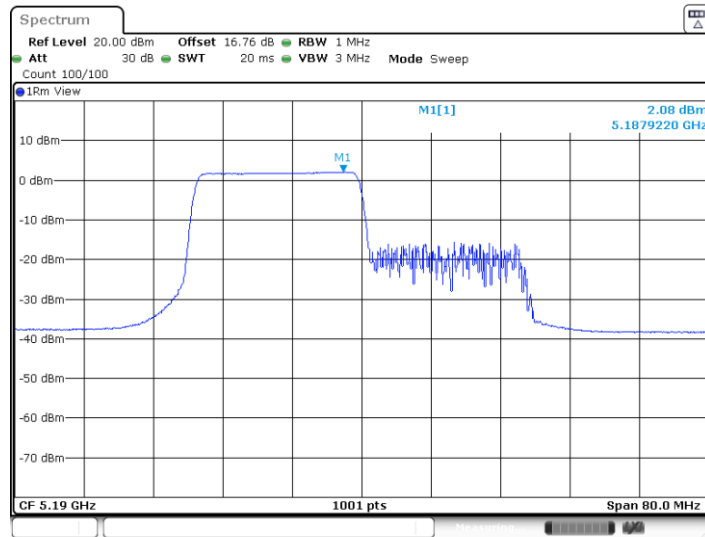
Date: 31.MAR.2023 13:30:13



11AX40MIMO_Ant7_5190_242Tone_RU61

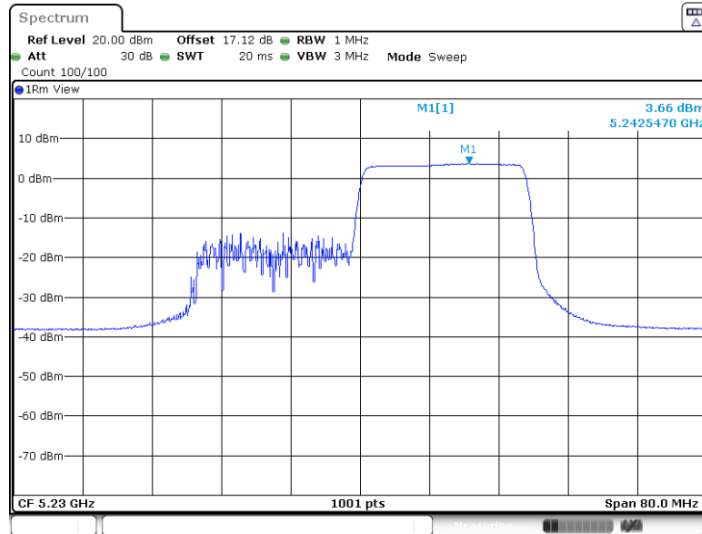


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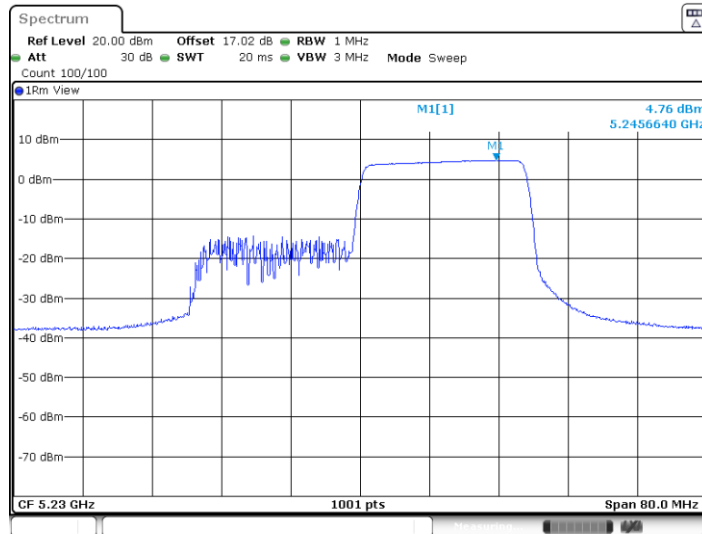




11AX40MIMO_Ant7_5230_242Tone_RU62

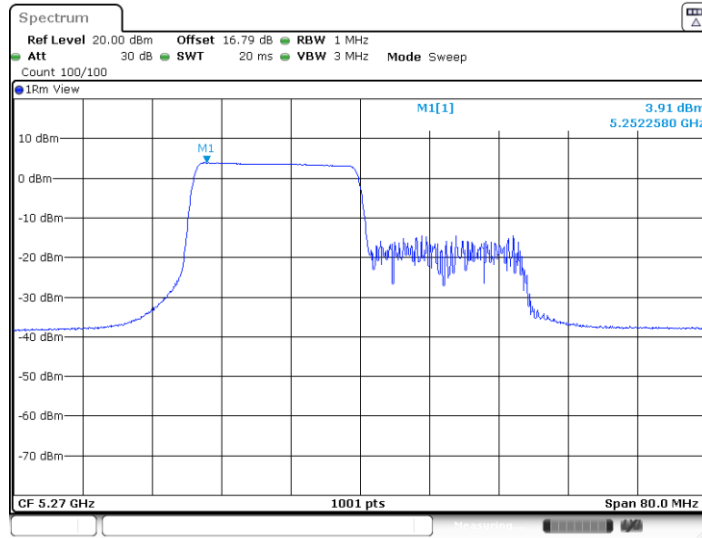


11AX40MIMO_Ant8_5230_242Tone_RU62

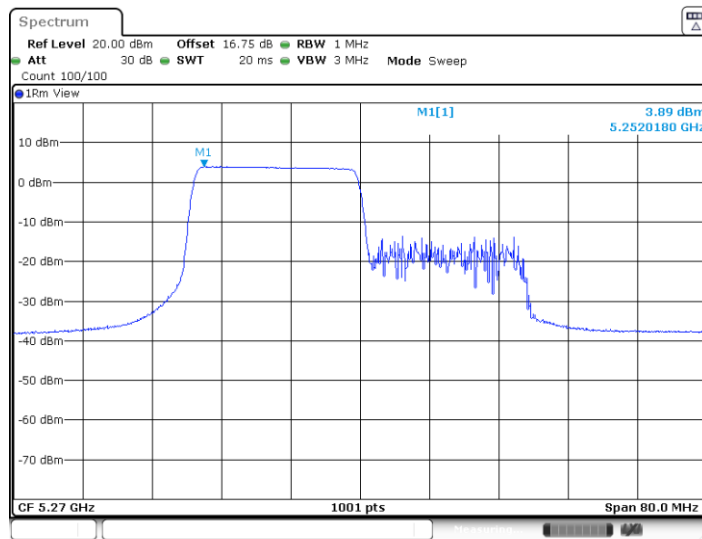




11AX40MIMO_Ant7_5270_242Tone_RU61

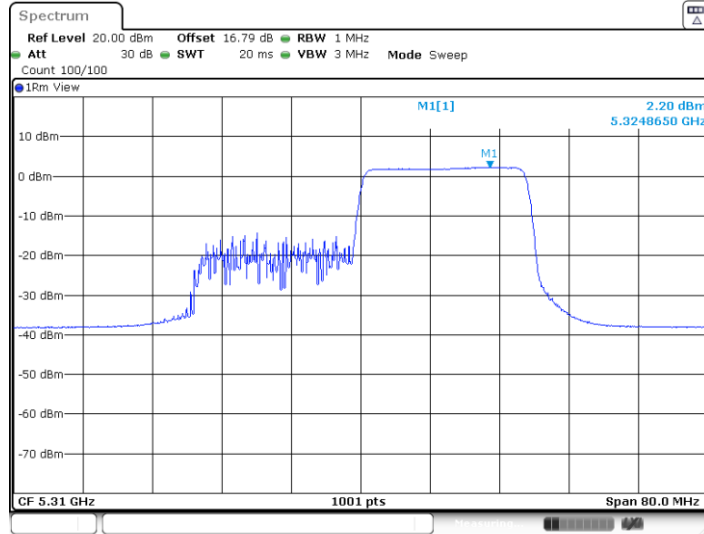


11AX40MIMO_Ant8_5270_242Tone_RU61



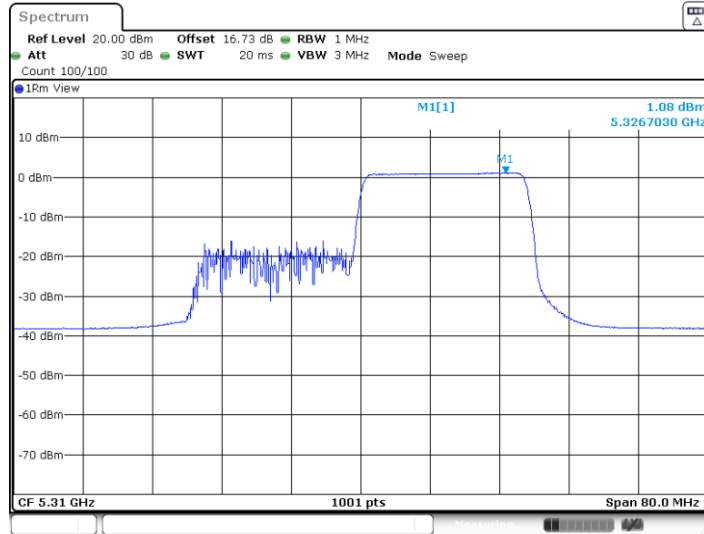


11AX40MIMO_Ant7_5310_242Tone_RU62



Date: 27.FEB.2023 16:27:10

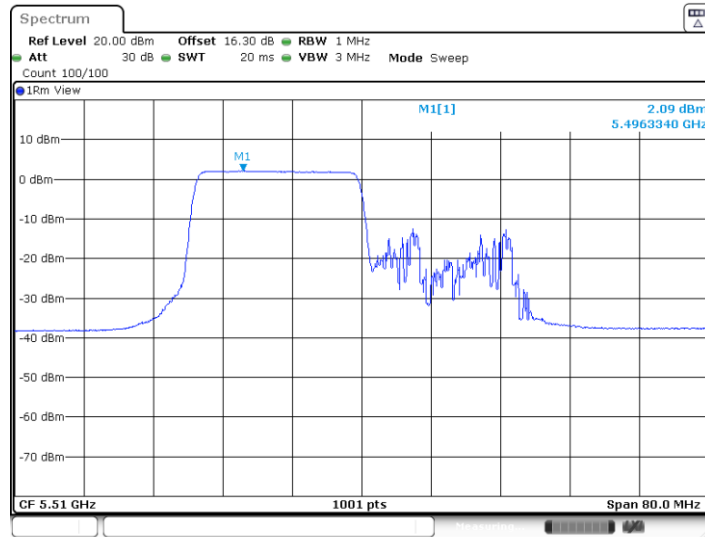
11AX40MIMO_Ant8_5310_242Tone_RU62



Date: 27.FEB.2023 16:27:27

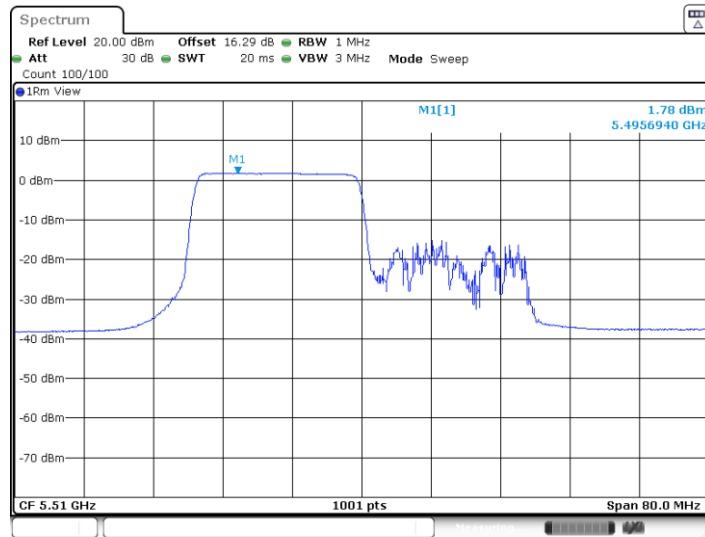


11AX40MIMO_Ant7_5510_242Tone_RU61



Date: 27.FEB.2023 16:28:35

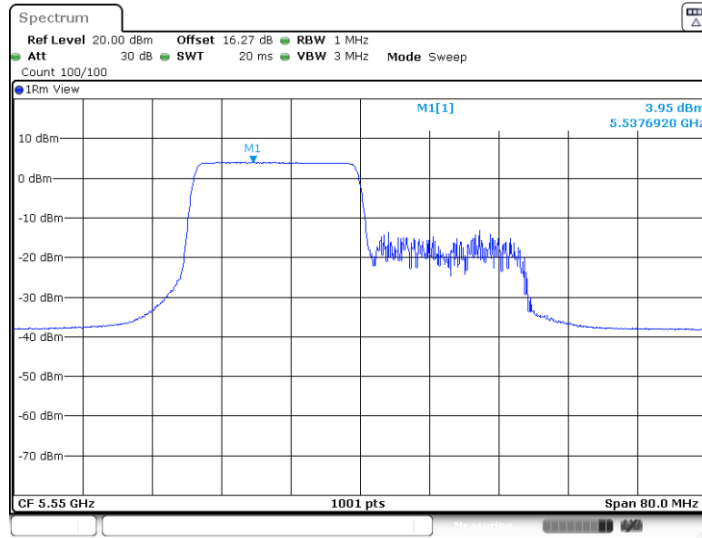
11AX40MIMO_Ant8_5510_242Tone_RU61



Date: 27.FEB.2023 16:28:52

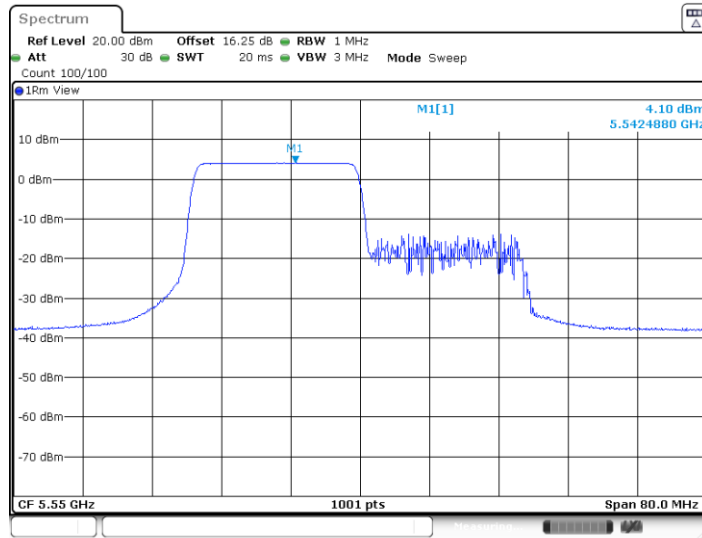


11AX40MIMO_Ant7_5550_242Tone_RU61



Date: 9.FEB.2023 20:35:26

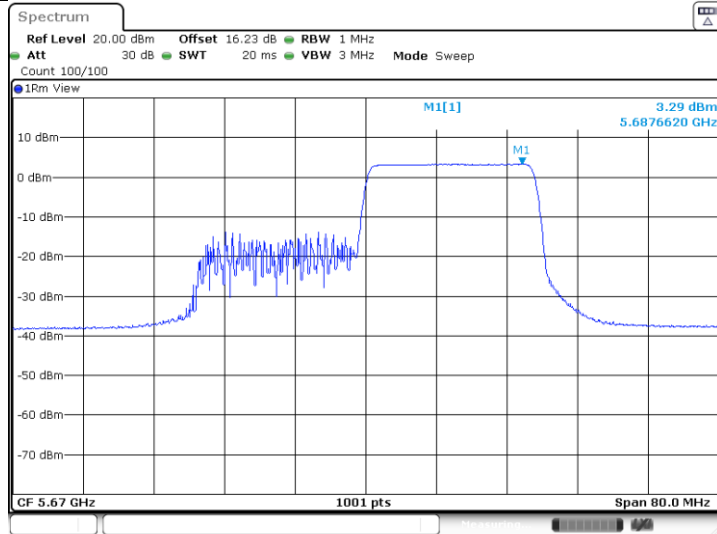
11AX40MIMO_Ant8_5550_242Tone_RU61



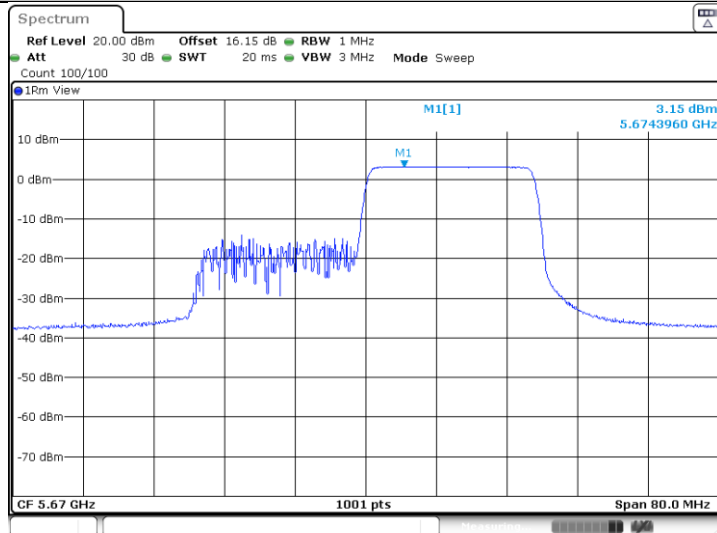
Date: 9.FEB.2023 20:35:37



11AX40MIMO_Ant7_5670_242Tone_RU62

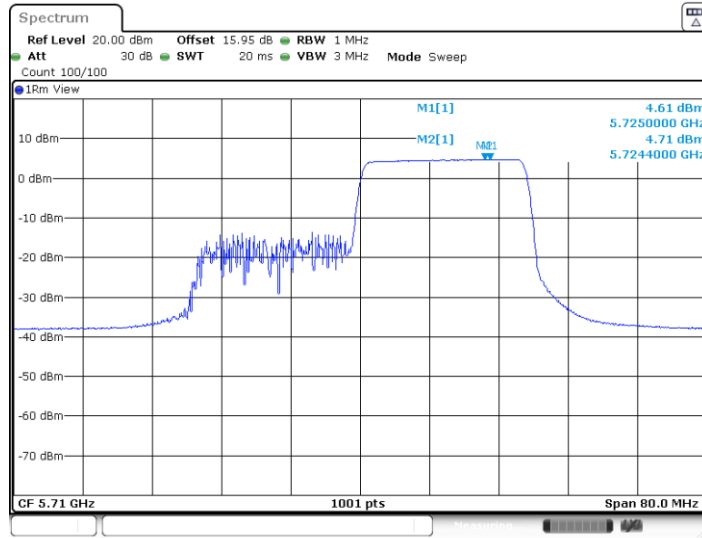


11AX40MIMO_Ant8_5670_242Tone_RU62



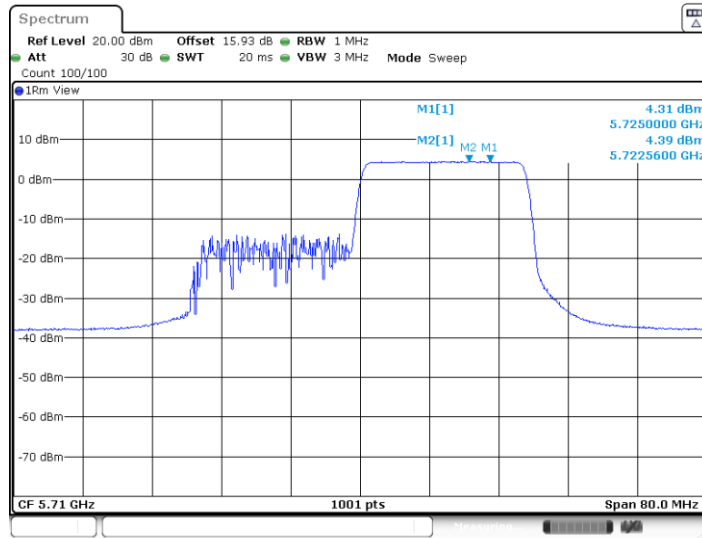


11AX40MIMO_Ant7_5710_UNII-2_242Tone_RU62



Date: 9.FEB.2023 20:42:27

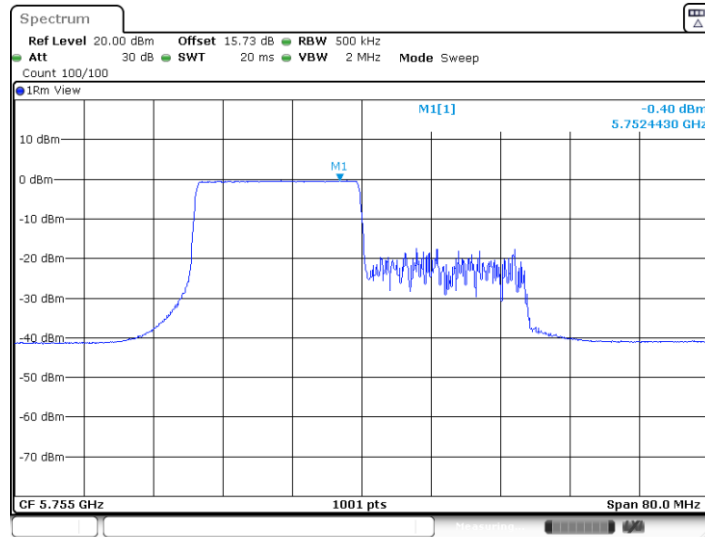
11AX40MIMO_Ant8_5710_UNII-2_242Tone_RU62



Date: 9.FEB.2023 20:43:32

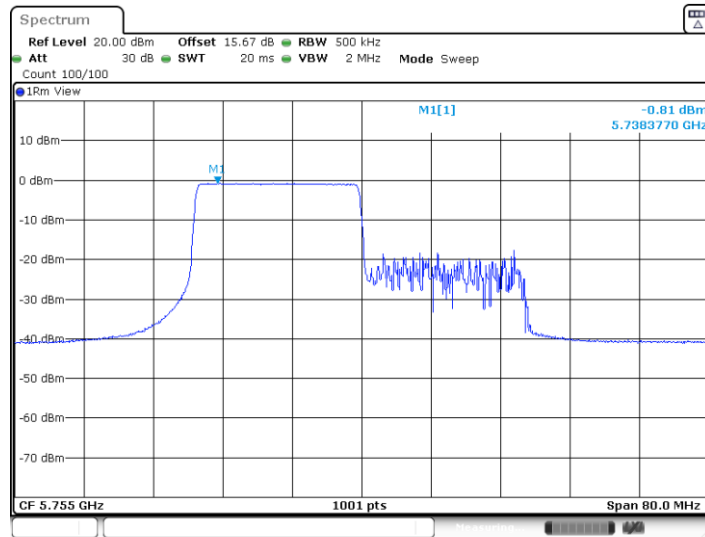


11AX40MIMO_Ant7_5755_242Tone_RU61



Date: 31.MAR.2023 13:31:28

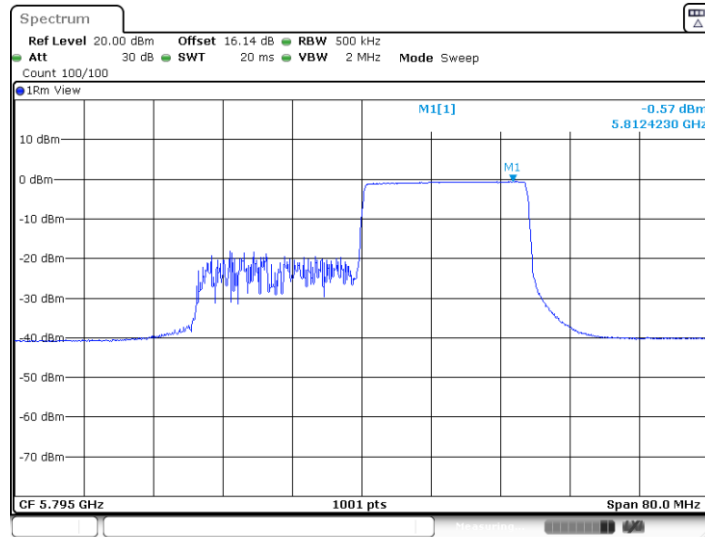
11AX40MIMO_Ant8_5755_242Tone_RU61



Date: 31.MAR.2023 13:31:45

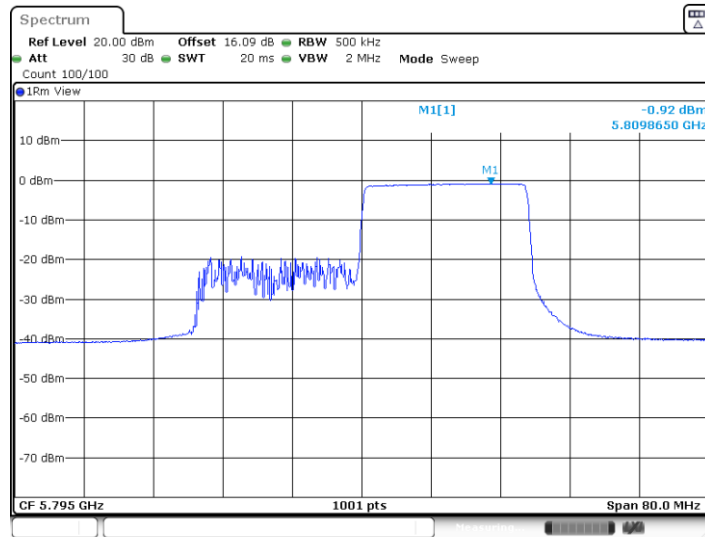


11AX40MIMO_Ant7_5795_242Tone_RU62



Date: 31.MAR.2023 13:33:55

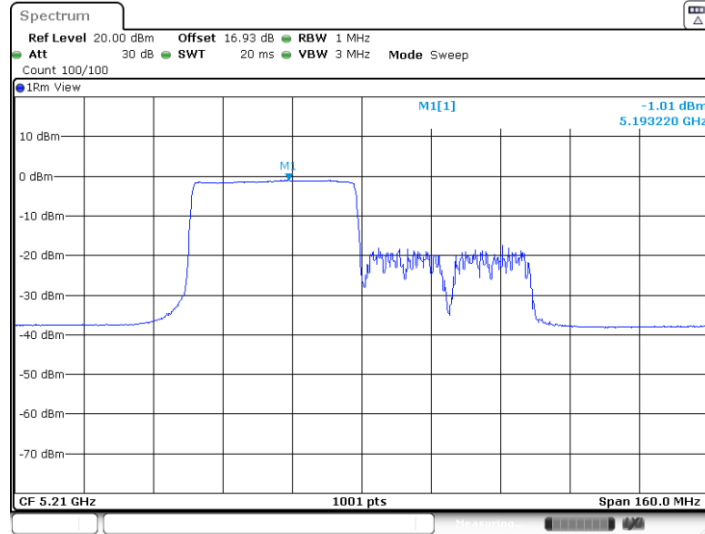
11AX40MIMO_Ant8_5795_242Tone_RU62



Date: 31.MAR.2023 13:34:07

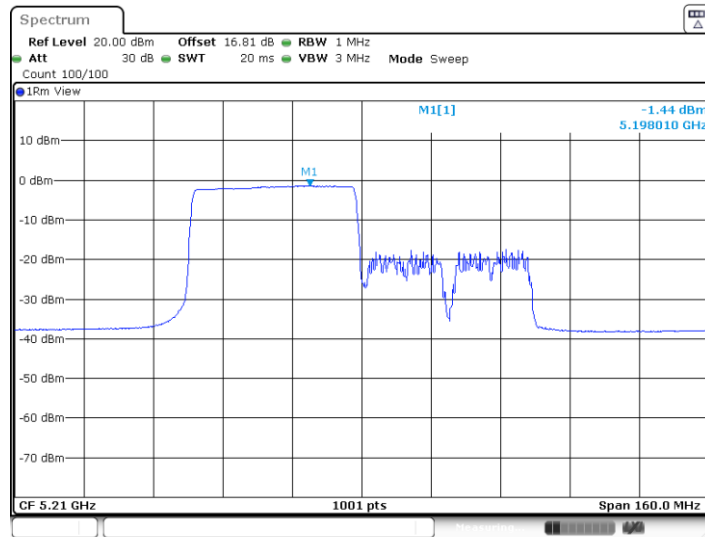


11AX80MIMO_Ant7_5210_484Tone_RU65



Date: 27.FEB.2023 16:53:21

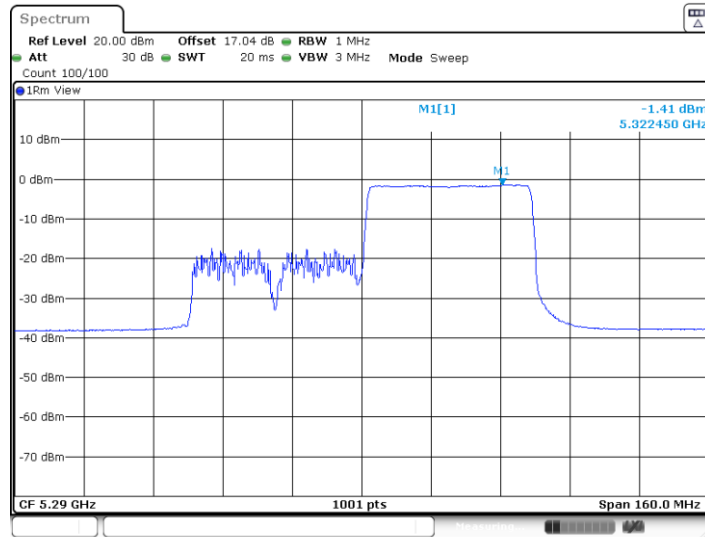
11AX80MIMO_Ant8_5210_484Tone_RU65



Date: 27.FEB.2023 16:53:32

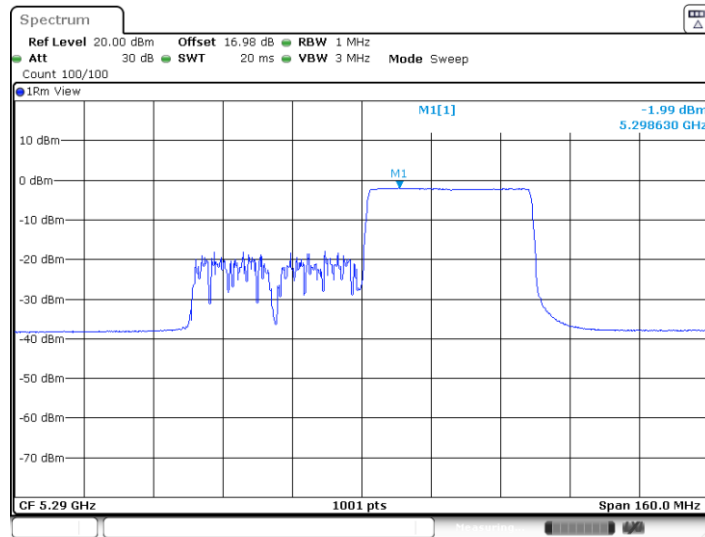


11AX80MIMO_Ant7_5290_484Tone_RU66



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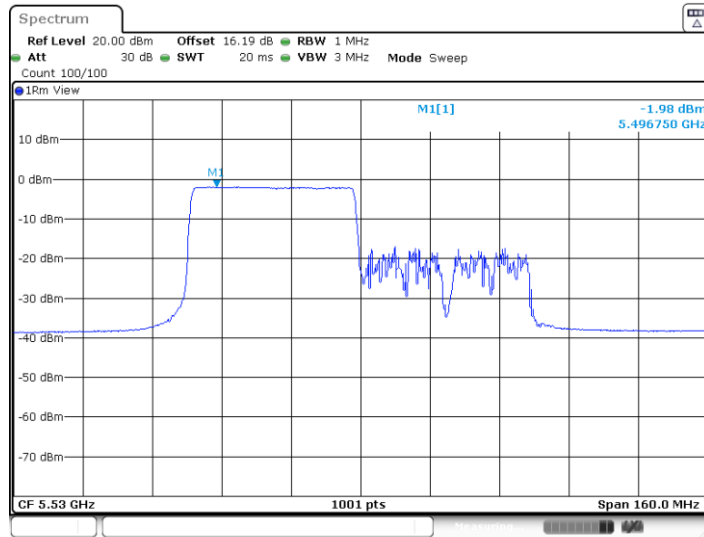
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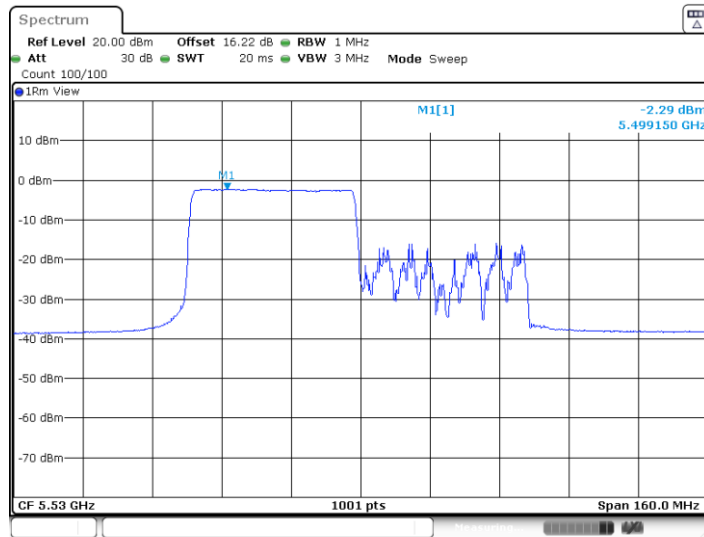


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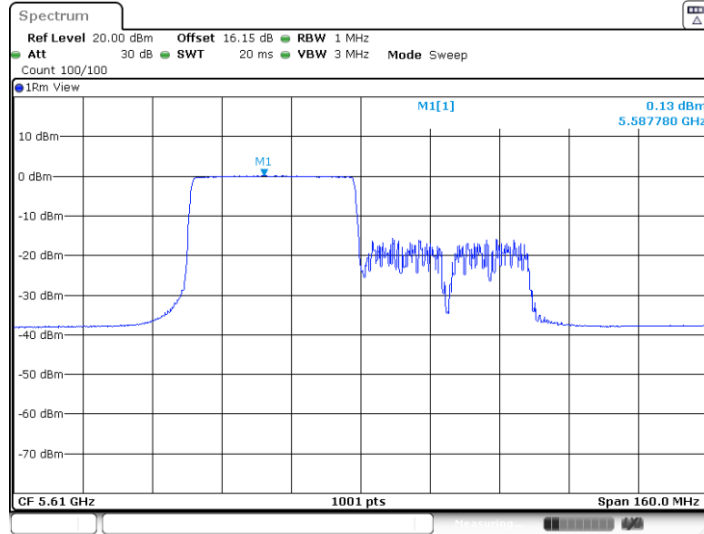
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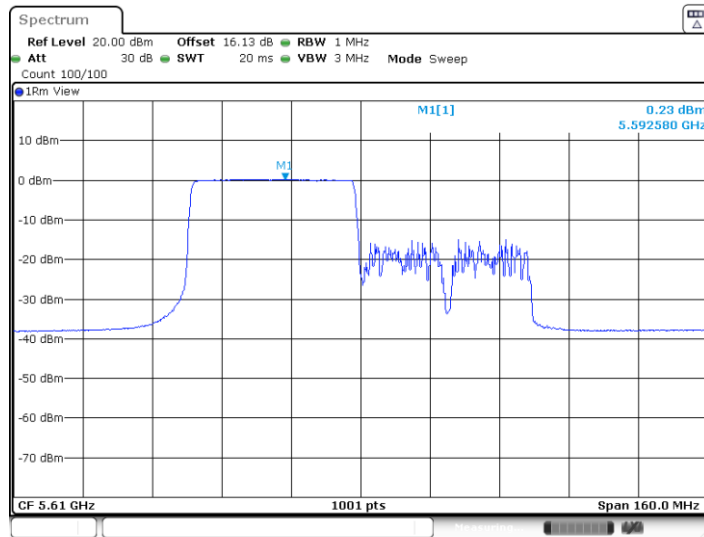


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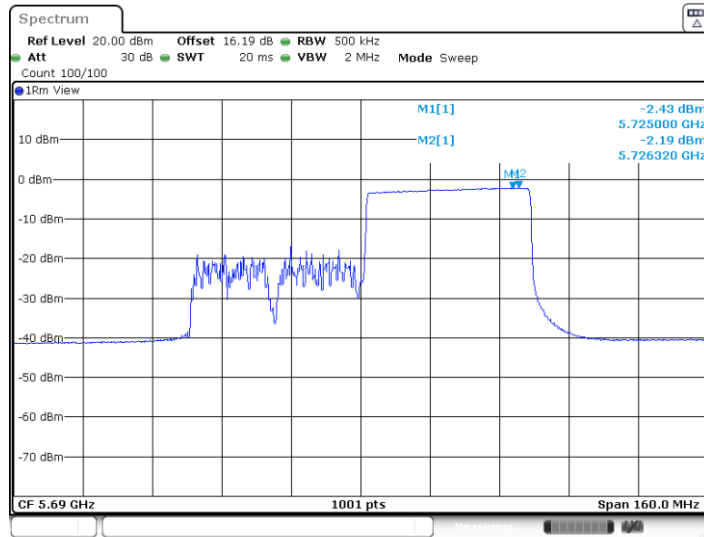
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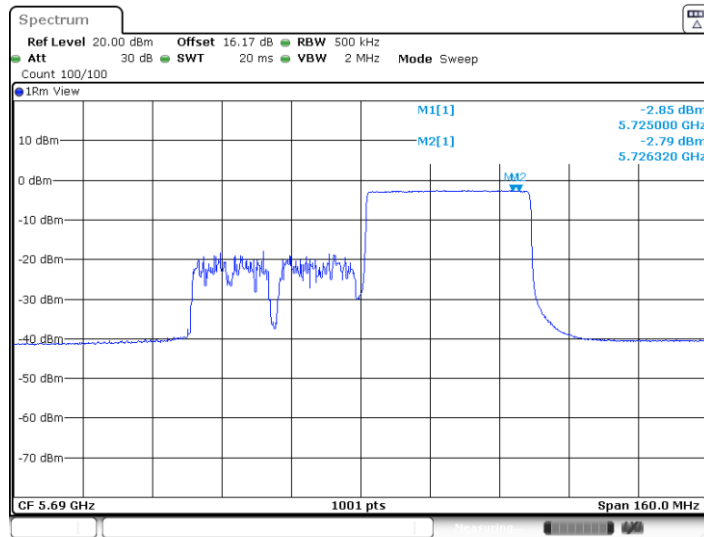


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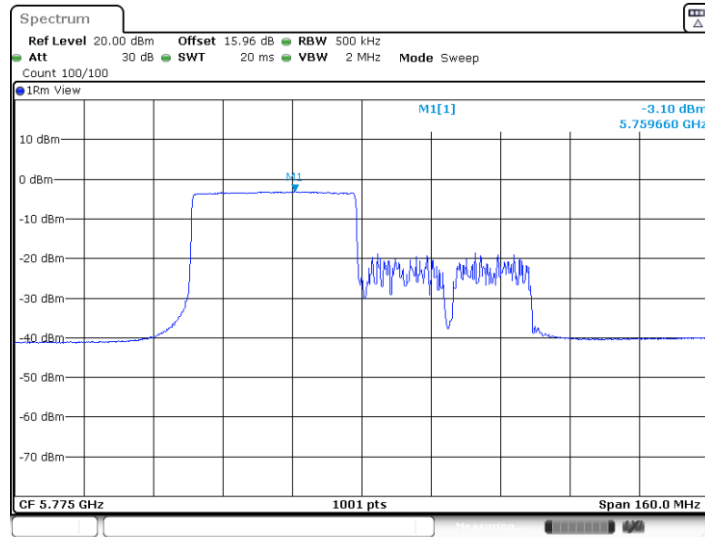
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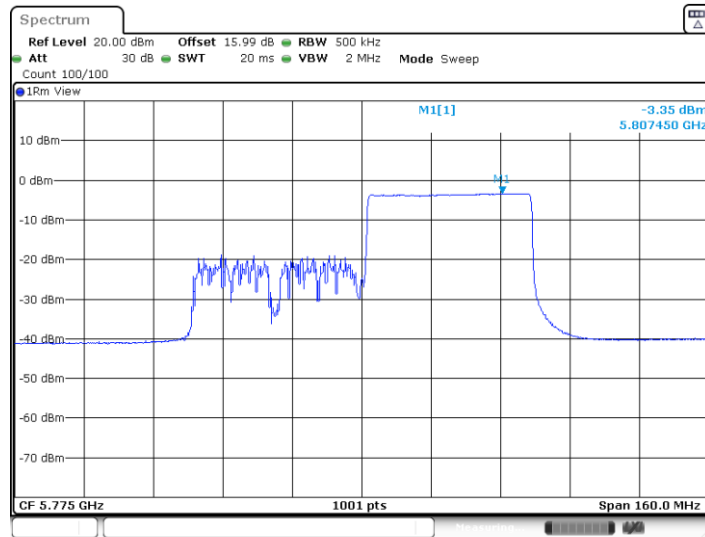
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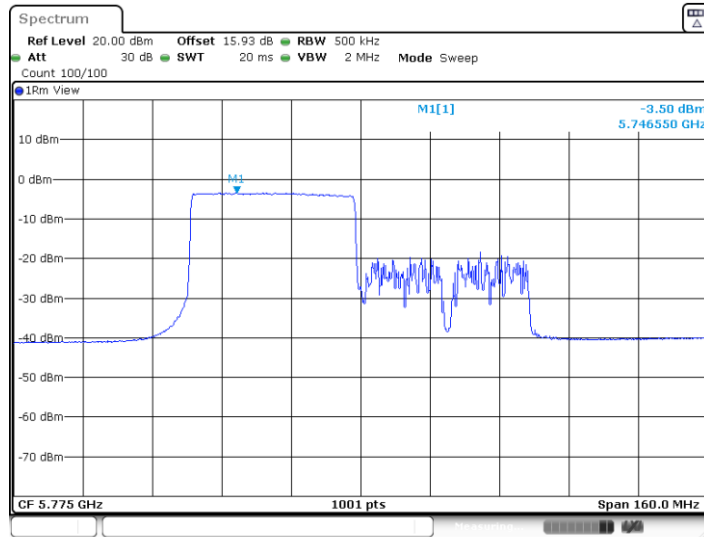


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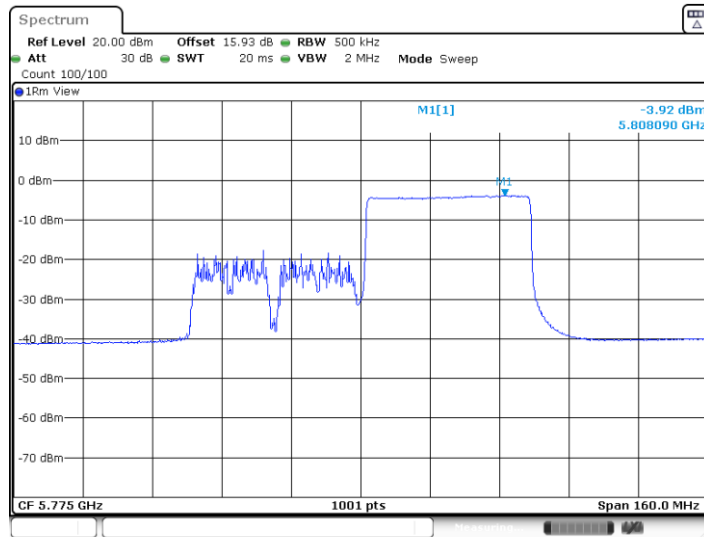


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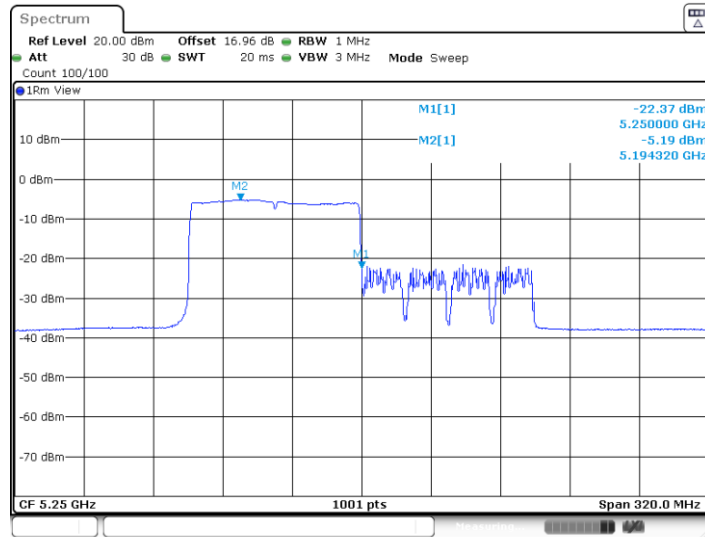
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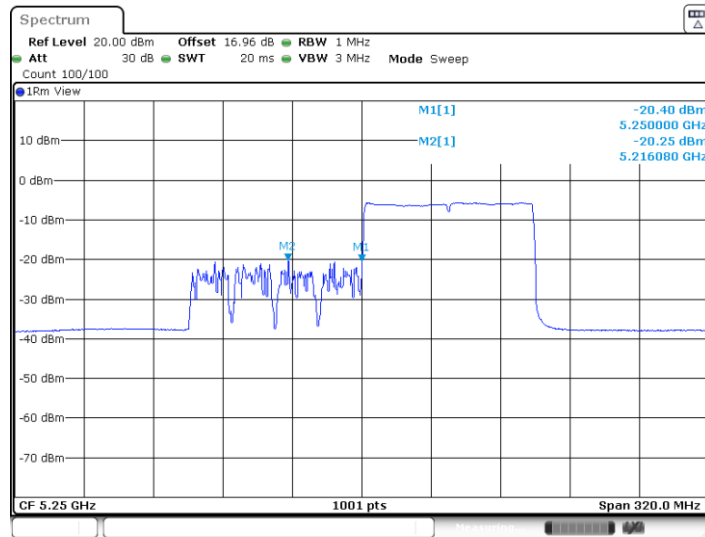


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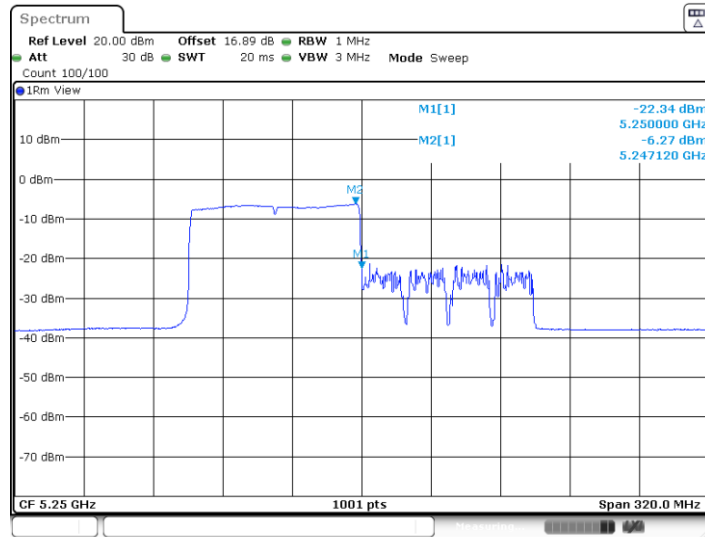
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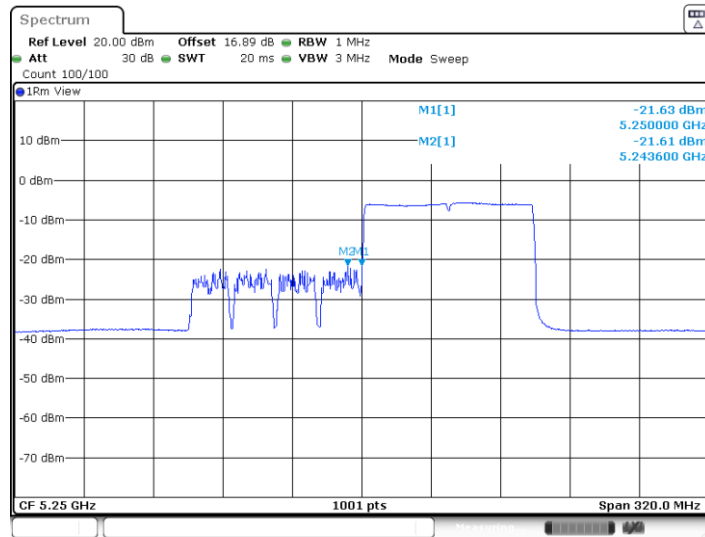
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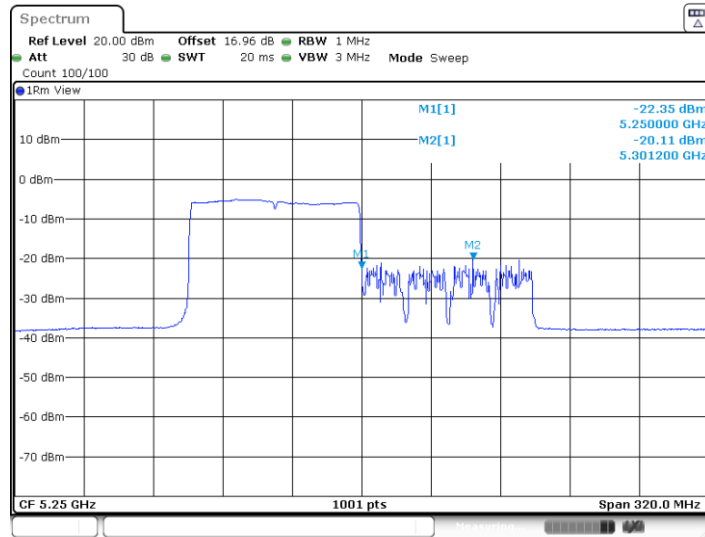


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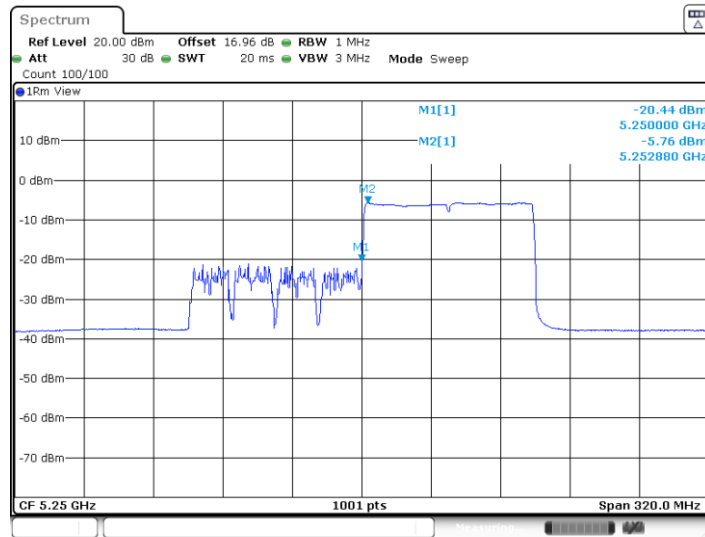


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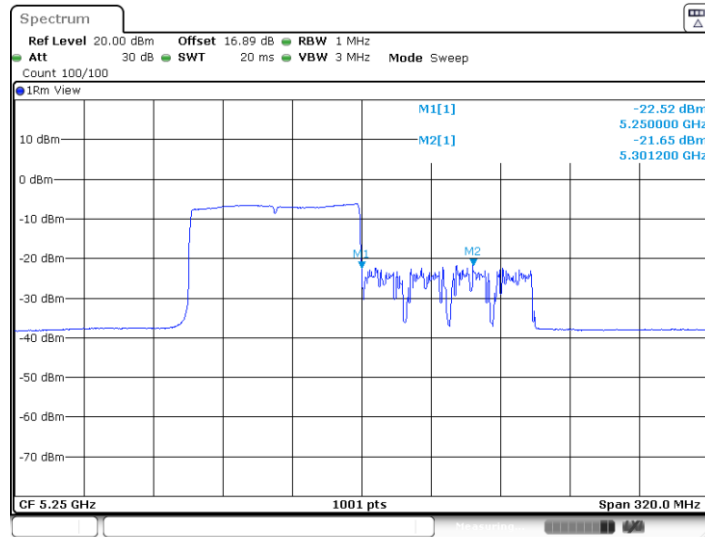
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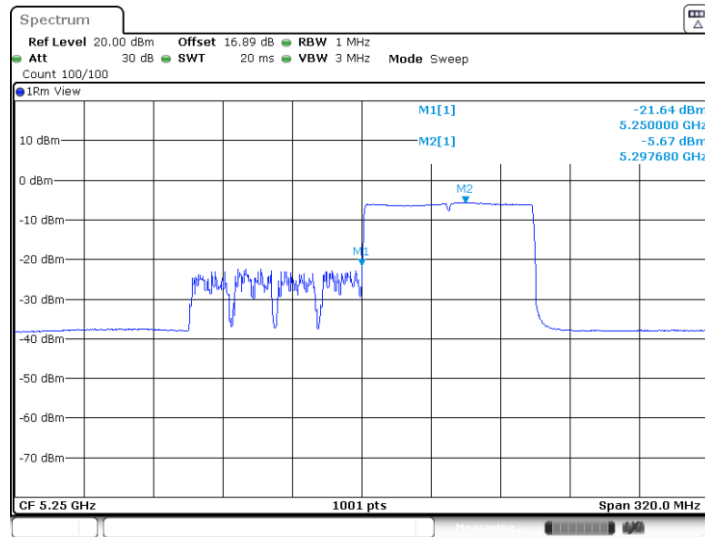


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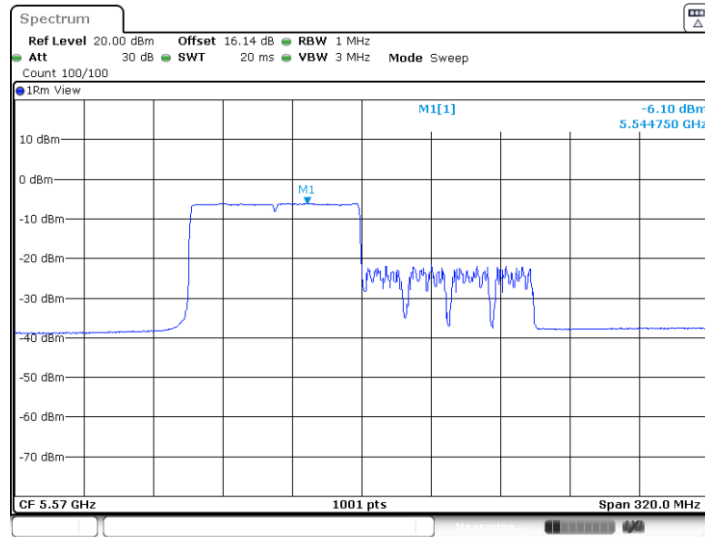
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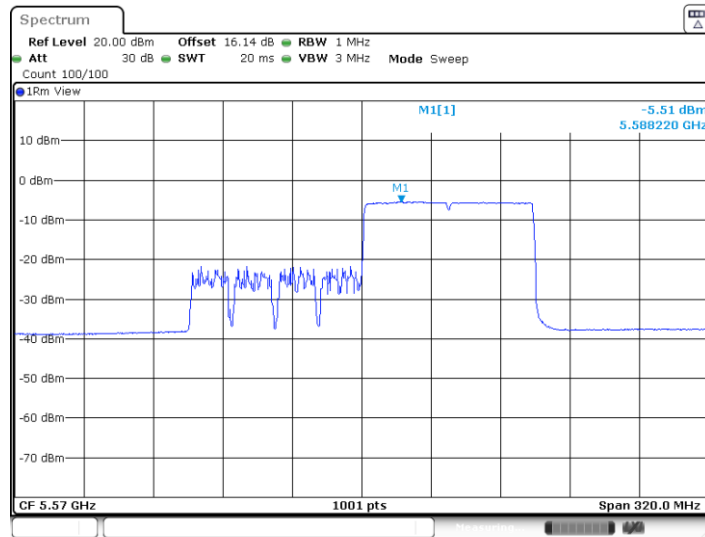


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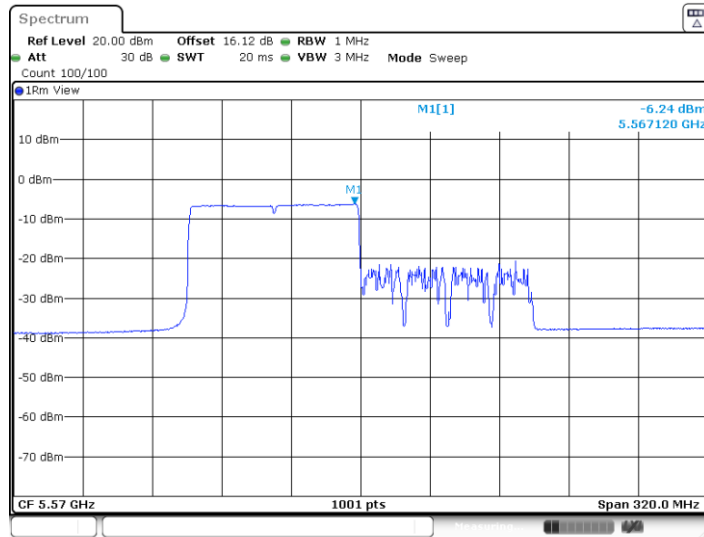
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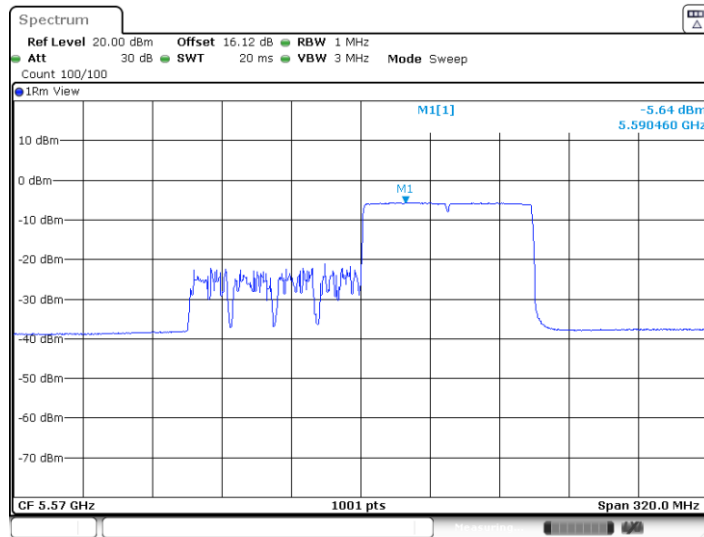


11AX160MIMO_Ant8_5570_996Tone_RU67



Date: 27.FEB.2023 17:10:06

11AX160MIMO_Ant8_5570_996Tone_RU68



Date: 27.FEB.2023 17:16:36



3.4 Unwanted Emissions Measurement

This section is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement.

3.4.1 Limit of Unwanted Emissions

- (1) For transmitters operating in the 5150-5250 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of -27dBm/MHz .

For transmitters operating in the 5250-5350 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of -27 dBm/MHz . Devices operating in the 5250-5350 MHz band that generate emissions in the 5150-5250 MHz band must meet all applicable technical requirements for operation in the 5150-5250 MHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5150-5250 MHz band.

For transmitters operating in the 5470-5725 MHz band: all emissions outside of the 5470-5725 MHz band shall not exceed an EIRP of -27 dBm/MHz .

- (2) For transmitters operating in the 5.725-5.85 GHz band:
15.407(b)(4)(i) 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.



(3) Unwanted spurious emissions fallen in restricted bands shall comply with the general field strength limits as below table,

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

EIRP (dBm)	Field Strength at 3m (dBµV/m)
- 27	68.3

Note: The following formula is used to convert the EIRP to field strength.

$$EIRP = E_{Meas} + 20\log (d_{Meas}) - 104.7$$

where

EIRP is the equivalent isotropically radiated power, in dBm

E_{Meas} is the field strength of the emission at the measurement distance, in dBµV/m

d_{Meas} is the measurement distance, in m

3.4.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.



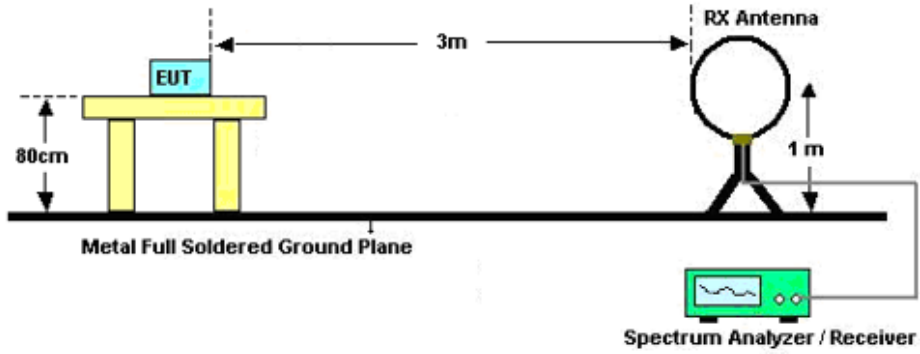
3.4.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section G) Unwanted emissions measurement.
 - (1) Procedure for Unwanted Emissions Measurements Below 1000MHz
 - RBW = 120 kHz
 - VBW = 300 kHz
 - Detector = Peak
 - Trace mode = max hold
 - (2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz
 - RBW = 1 MHz
 - VBW \geq 3 MHz
 - Detector = Peak
 - Sweep time = auto
 - Trace mode = max hold
 - (3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz
 - RBW = 1 MHz
 - VBW = 10 Hz, 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.
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than peak limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

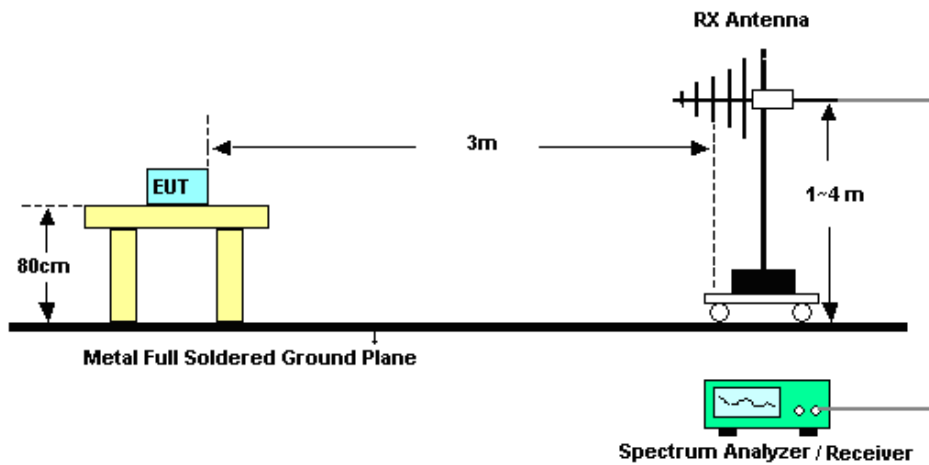


3.4.4 Test Setup

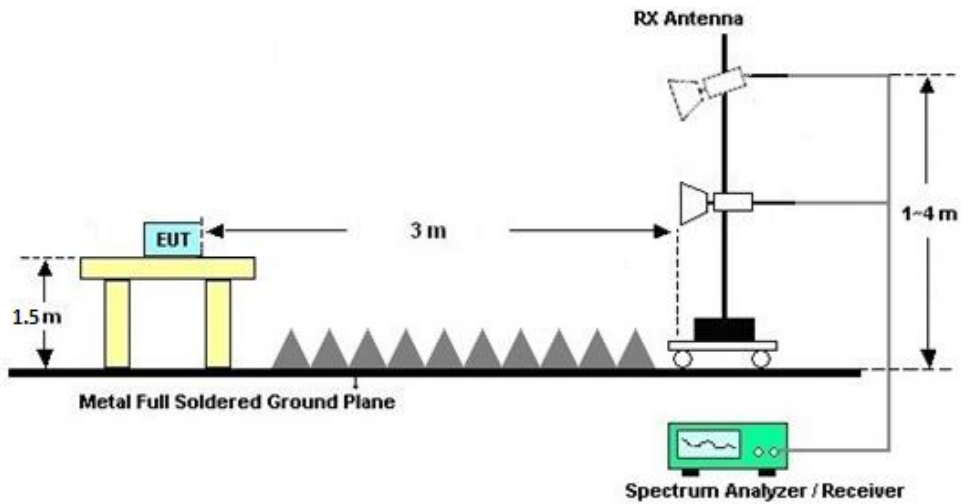
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz





3.4.5 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)

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.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

3.4.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix B.

3.4.7 Duty Cycle

Please refer to Appendix C.

3.4.8 Test Result of Radiated Spurious Emissions (30MHz ~ 10th Harmonic or 40GHz, whichever is lower)

Please refer to Appendix B.



3.5 AC Conducted Emission Measurement

3.5.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of emission (MHz)	Conducted limit (dBµV)	
	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.

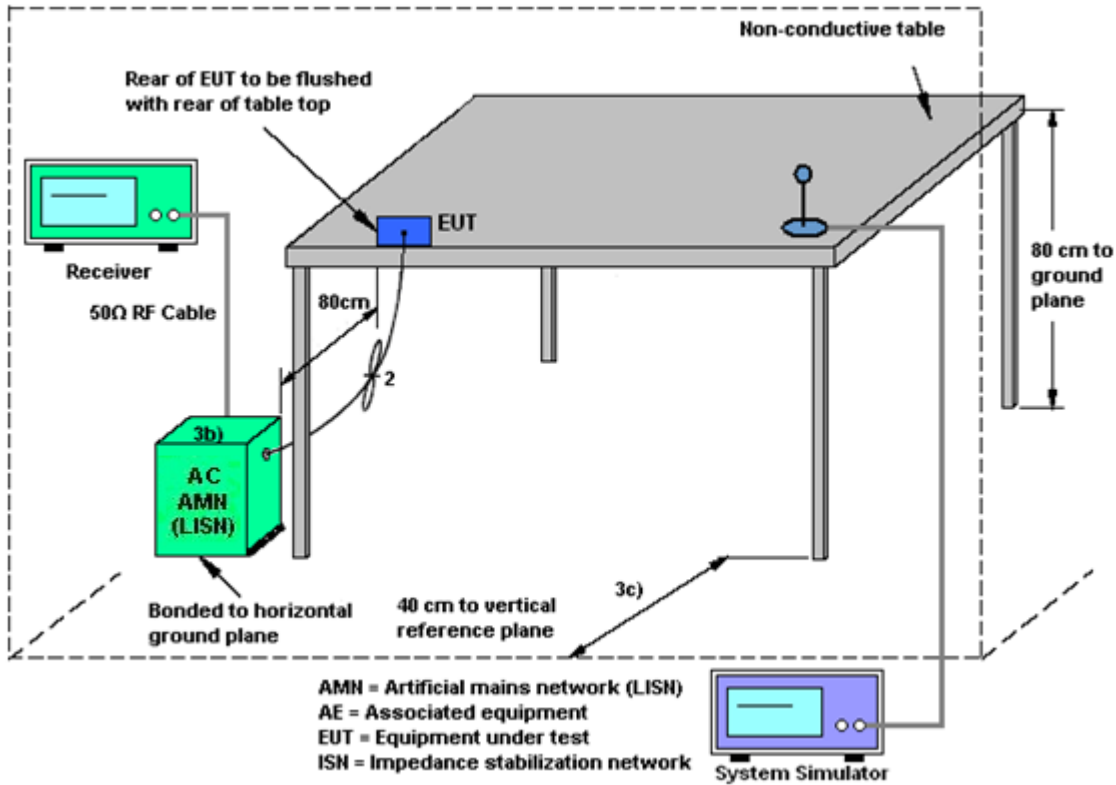
3.5.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.5.3 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

3.5.4 Test Setup



3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix A.



3.6 Antenna Requirements

3.6.1 Standard Applicable

If transmitting antenna directional gain is greater than 6 dBi, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.6.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.6.3 Antenna Gain

<CDD Modes >

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

Directional gain = GANT + Array Gain, where Array Gain is as follows.

For power spectral density (PSD) measurements on all devices,

Array Gain = 10 log(NANT/NSS=1) dB.

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for NANT ≤ 4.

Directional gain may be calculated by using the formulas applicable to equal gain antennas with GANT set equal to the gain of the antenna having the highest gain;

The EUT supports CDD mode.

For power, the directional gain GANT is set equal to the antenna having the highest gain, i.e., F)2)f)i).

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 6 dBi,

The directional gain "DG" is calculated as following table.

<CDD Modes>						
			DG	DG	Power	PSD
	Ant. 1	Ant. 2	for	for	Limit	Limit
	(dBi)	(dBi)	Power	PSD	Reduction	Reduction
	(dBi)	(dBi)	(dBi)	(dBi)	(dB)	(dB)
UNII-1	-0.65	-3.50	-0.65	1.05	0.00	0.00
UNII-2A	-0.84	-3.40	-0.84	0.98	0.00	0.00
UNII-2C	-0.31	-0.20	-0.20	2.76	0.00	0.00
UNII-3	0.87	0.40	0.87	3.65	0.00	0.00

Power limit reduction = Composite gain – 6dBi, (min = 0)

PSD limit reduction = Composite gain + PSD Array gain – 6dBi, (min = 0)



4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 12, 2022	Feb. 04, 2023~ Apr. 24, 2023	Oct. 11, 2023	Conducted (TH01-KS)
Pulse Power Sensor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 05, 2023	Feb. 04, 2023~ Apr. 24, 2023	Jan. 04, 2024	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 05, 2023	Feb. 04, 2023~ Apr. 24, 2023	Jan. 04, 2024	Conducted (TH01-KS)
EMI Test Receiver	Keysight	N9038A	MY57290151	3Hz~8.5GHz; Max 30dBm	Jul. 11, 2022	Feb. 16, 2023~ Mar. 28, 2023	Jul. 10, 2023	Radiation (03CH08-KS)
Spectrum Analyzer	R&S	FSV40	101932	10kHz~40GHz; Max 30dBm	Oct. 12, 2022	Feb. 16, 2023~ Mar. 28, 2023	Oct. 11, 2023	Radiation (03CH08-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Oct. 16, 2022	Feb. 16, 2023~ Mar. 28, 2023	Oct. 15, 2023	Radiation (03CH08-KS)
Bilog Antenna	TESEQ& VGT	CBL 61110	59915	30MHz-1GHz	Aug. 26, 2022	Feb. 16, 2023~ Mar. 28, 2023	Aug. 25, 2023	Radiation (03CH08-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00240138	1GHz~18GHz	Jul. 08, 2022	Feb. 16, 2023~ Mar. 28, 2023	Jul. 07, 2023	Radiation (03CH08-KS)
SHF-EHF Horn	Com-power	AH-840	101070	18GHz~40GHz	Jan. 08, 2023	Feb. 16, 2023~ Mar. 28, 2023	Jan. 07, 2024	Radiation (03CH08-KS)
Amplifier	SONOMA	310N	413741	9KHz-1GHz	Jan. 05, 2023	Feb. 16, 2023~ Mar. 28, 2023	Jan. 04, 2024	Radiation (03CH08-KS)
Amplifier	EM	EM01G18GA	060834	1Ghz-18Ghz	Oct. 12, 2022	Feb. 16, 2023~ Mar. 28, 2023	Oct. 11, 2023	Radiation (03CH08-KS)
Amplifier	MITEQ	EM18G40GA	060728	18~40GHz	Jan. 05, 2023	Feb. 16, 2023~ Mar. 28, 2023	Jan. 04, 2024	Radiation (03CH08-KS)
high gain Amplifier	EM	EM01G18GA	060845	1Ghz-18Ghz	Jan. 05, 2023	Feb. 16, 2023~ Mar. 28, 2023	Jan. 04, 2024	Radiation (03CH08-KS)
AC Power Source	Chroma	61601	616010002473	N/A	NCR	Feb. 16, 2023~ Mar. 28, 2023	NCR	Radiation (03CH08-KS)
Turn Table	EM	EM 1000-T	N/A	0~360 degree	NCR	Feb. 16, 2023~ Mar. 28, 2023	NCR	Radiation (03CH08-KS)
Antenna Mast	EM	EM 1000-A	N/A	1 m~4 m	NCR	Feb. 16, 2023~ Mar. 28, 2023	NCR	Radiation (03CH08-KS)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	May 24, 2022	Mar. 02, 2023	May 23, 2023	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Oct. 13, 2022	Mar. 02, 2023	Oct. 12, 2023	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060105	9kHz~30MHz	May 24, 2022	Mar. 02, 2023	May 23, 2023	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP00000811	AC 0V~300V, 45Hz~1000Hz	Oct. 12, 2022	Mar. 02, 2023	Oct. 11, 2023	Conduction (CO01-KS)

NCR: No Calibration Required



5 Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.10-2013. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Conducted Measurement

Test Item	Uncertainty
Conducted Power	±0.46 dB
Conducted Emissions	±0.48 dB
Occupied Channel Bandwidth	±0.1 %
Conducted Power Spectral Density	±0.40 dB

Uncertainty of Conducted Emission Measurement (150kHz ~ 30MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.78dB
---	--------

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.0dB
---	-------

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.0dB
---	-------

Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

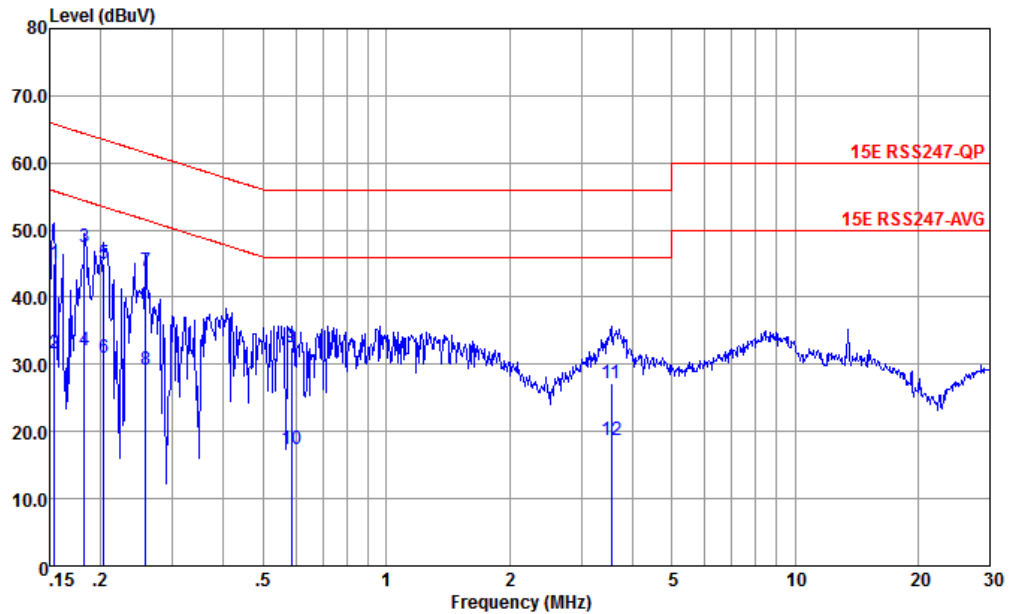
Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.0dB
---	-------

----- THE END -----



Appendix A. AC Conducted Emission Test Results

Test Engineer :	Amos Zhang	Temperature :	24.2~25.6°C
		Relative Humidity :	37~39%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

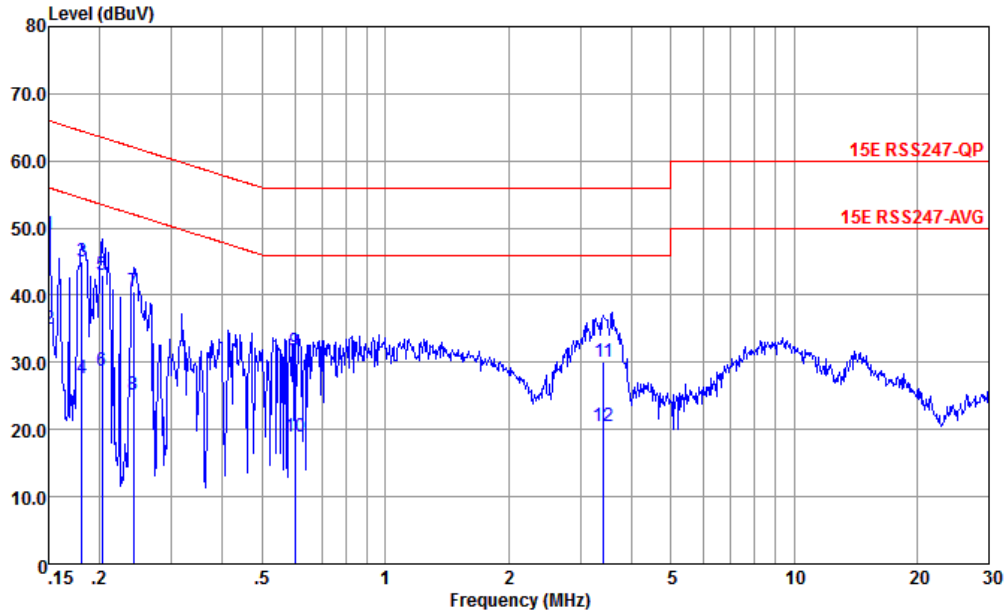


Site : CO01-KS
 Condition : 15E RSS247-QP LISN-060105-LINE LINE

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1	0.154	44.99	-20.79	65.78	34.49	0.07	10.43	QP
2	0.154	31.69	-24.09	55.78	21.19	0.07	10.43	Average
3 *	0.182	47.36	-17.01	64.37	36.90	0.04	10.42	QP
4	0.182	32.06	-22.31	54.37	21.60	0.04	10.42	Average
5	0.204	45.04	-18.41	63.45	34.60	0.02	10.42	QP
6	0.204	31.04	-22.41	53.45	20.60	0.02	10.42	Average
7	0.258	43.92	-17.59	61.51	33.50	0.04	10.38	QP
8	0.258	29.22	-22.29	51.51	18.80	0.04	10.38	Average
9	0.585	32.63	-23.37	56.00	22.50	-0.06	10.19	QP
10	0.585	17.33	-28.67	46.00	7.20	-0.06	10.19	Average
11	3.547	27.15	-28.85	56.00	17.20	-0.11	10.06	QP
12	3.547	18.75	-27.25	46.00	8.80	-0.11	10.06	Average



Test Engineer :	Amos Zhang	Temperature :	24.2~25.6°C
		Relative Humidity :	37~39%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO01-KS
 Condition : 15E RSS247-QP LISN-060105-NEUTRAL NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1 *	0.150	49.06	-16.94	66.00	38.60	0.03	10.43	QP
2	0.150	34.96	-21.04	56.00	24.50	0.03	10.43	Average
3	0.181	45.07	-19.39	64.46	34.61	0.04	10.42	QP
4	0.181	27.67	-26.79	54.46	17.21	0.04	10.42	Average
5	0.203	42.96	-20.53	63.49	32.49	0.05	10.42	QP
6	0.203	28.66	-24.83	53.49	18.19	0.05	10.42	Average
7	0.242	40.59	-21.45	62.04	30.20	0.00	10.39	QP
8	0.242	25.29	-26.75	52.04	14.90	0.00	10.39	Average
9	0.601	31.60	-24.40	56.00	21.51	-0.09	10.18	QP
10	0.601	19.00	-27.00	46.00	8.91	-0.09	10.18	Average
11	3.417	30.13	-25.87	56.00	20.19	-0.12	10.06	QP
12	3.417	20.53	-25.47	46.00	10.59	-0.12	10.06	Average

Note:

- Level(dBμV) = Read Level(dBμV) + LISN Factor(dB) + Cable Loss(dB)
- Over Limit(dB) = Level(dBμV) – Limit Line(dBμV)



Appendix B. Radiated Spurious Emission Test Data

Test Engineer :	Carry Xu	Relative Humidity :	41 ~ 42 %
		Temperature :	22 ~ 23 °C

<U NII-1, 2A, 2C>

Radiated Spurious Emission Test Modes

Mode	Band	Band (GHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	U-NII-1	5.15-5.25	7+8	802.11a	36	5180	6Mbps	-	-
Mode 2	U-NII-1	5.15-5.25	7+8	802.11a	44	5220	6Mbps	-	-
Mode 3	U-NII-1	5.15-5.25	7+8	802.11a	48	5240	6Mbps	-	-
Mode 4	U-NII-1	5.15-5.25	7+8	802.11ax HE20	36	5180	MCS0	Full RU	-
Mode 5	U-NII-1	5.15-5.25	7+8	802.11ax HE20	36	5180	MCS0	RU 106/53	-
Mode 6	U-NII-1	5.15-5.25	7+8	802.11ax HE20	44	5220	MCS0	Full RU	-
Mode 7	U-NII-1	5.15-5.25	7+8	802.11ax HE20	48	5240	MCS0	Full RU	-
Mode 8	U-NII-1	5.15-5.25	7+8	802.11ax HE40	38	5190	MCS0	Full RU	-
Mode 9	U-NII-1	5.15-5.25	7+8	802.11ax HE40	38	5190	MCS0	RU 242/61	-
Mode 10	U-NII-1	5.15-5.25	7+8	802.11ax HE40	46	5230	MCS0	Full RU	-
Mode 11	U-NII-1	5.15-5.25	7+8	802.11ax HE80	42	5210	MCS0	Full RU	-



Radiated Spurious Emission Test Modes

Mode	Band	Band (GHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 12	U-NII-1	5.15-5.25	7+8	802.11ax HE80	42	5210	MCS0	RU 484/65	-
Mode 13	U-NII-2C	5.15-5.35	7+8	802.11ax HE160	50	5250	MCS0	RU 996/67	-
Mode 14	U-NII-2A	5.25-5.35	7+8	802.11a	52	5260	6Mbps	-	-
Mode 15	U-NII-2A	5.25-5.35	7+8	802.11a	60	5300	6Mbps	-	-
Mode 16	U-NII-2A	5.25-5.35	7+8	802.11a	64	5320	6Mbps	-	-
Mode 17	U-NII-2A	5.25-5.35	7+8	802.11ax HE20	52	5260	MCS0	Full RU	-
Mode 18	U-NII-2A	5.25-5.35	7+8	802.11ax HE20	60	5300	MCS0	Full RU	-
Mode 19	U-NII-2A	5.25-5.35	7+8	802.11ax HE20	64	5320	MCS0	Full RU	-
Mode 20	U-NII-2A	5.25-5.35	7+8	802.11ax HE20	64	5320	MCS0	RU 106/54	-
Mode 21	U-NII-2A	5.25-5.35	7+8	802.11ax HE40	54	5270	MCS0	Full RU	-
Mode 22	U-NII-2A	5.25-5.35	7+8	802.11ax HE40	62	5310	MCS0	Full RU	-
Mode 23	U-NII-2A	5.25-5.35	7+8	802.11ax HE40	62	5310	MCS0	RU 242/62	-
Mode 24	U-NII-2A	5.25-5.35	7+8	802.11ax HE80	58	5290	MCS0	Full RU	-
Mode 25	U-NII-2A	5.25-5.35	7+8	802.11ax HE80	58	5290	MCS0	RU 484/66	-
Mode 26	U-NII-2C	5.15-5.35	7+8	802.11ax HE160	50	5250	MCS0	Full RU	-
Mode 27	U-NII-2C	5.15-5.35	7+8	802.11ax HE160	50	5250	MCS0	RU 996/68	-
Mode 28	U-NII-2C	5.47-5.725	7+8	802.11a	100	5500	6Mbps	-	-
Mode 29	U-NII-2C	5.47-5.725	7+8	802.11a	116	5580	6Mbps	-	-
Mode 30	U-NII-2C	5.47-5.725	7+8	802.11a	140	5700	6Mbps	-	-
Mode 31	U-NII-2C	5.47-5.725	7+8	802.11ax HE20	100	5500	MCS0	-	-
Mode 32	U-NII-2C	5.47-5.725	7+8	802.11ax HE20	100	5500	MCS0	RU 106/53	-
Mode 33	U-NII-2C	5.47-5.725	7+8	802.11ax HE20	116	5580	MCS0	-	-



Radiated Spurious Emission Test Modes

Mode	Band	Band (GHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 34	U-NII-2C	5.47-5.725	7+8	802.11ax HE20	140	5700	MCS0	-	-
Mode 35	U-NII-2C	5.47-5.725	7+8	802.11ax HE20	140	5700	MCS0	RU 106/54	-
Mode 36	U-NII-2C	5.47-5.725	7+8	802.11ax HE40	102	5510	MCS0	Full RU	-
Mode 37	U-NII-2C	5.47-5.725	7+8	802.11ax HE40	102	5510	MCS0	RU 242/61	-
Mode 38	U-NII-2C	5.47-5.725	7+8	802.11ax HE40	110	5550	MCS0	Full RU	-
Mode 39	U-NII-2C	5.47-5.725	7+8	802.11ax HE40	134	5670	MCS0	Full RU	-
Mode 40	U-NII-2C	5.47-5.725	7+8	802.11ax HE40	134	5670	MCS0	RU 242/62	-
Mode 41	U-NII-2C	5.47-5.725	7+8	802.11ax HE80	106	5530	MCS0	Full RU	-
Mode 42	U-NII-2C	5.47-5.725	7+8	802.11ax HE80	106	5530	MCS0	RU 484/65	-
Mode 43	U-NII-2C	5.47-5.725	7+8	802.11ax HE80	122	5610	MCS0	Full RU	-
Mode 44	U-NII-2C	5.47-5.725	7+8	802.11ax HE80	122	5610	MCS0	RU 484/66	-
Mode 45	U-NII-2C	5.47-5.725	7+8	802.11ax HE160	114	5570	MCS0	Full RU	-
Mode 46	U-NII-2C	5.47-5.725	7+8	802.11ax HE160	114	5570	MCS0	RU 996/67	-
Mode 47	U-NII-2C	5.47-5.85	7+8	802.11a	144	5720	6Mbps	-	-
Mode 48	U-NII-2C	5.47-5.85	7+8	802.11ax HE20	144	5720	MCS0	Full RU	-
Mode 49	U-NII-2C	5.47-5.85	7+8	802.11ax HE40	142	5710	MCS0	Full RU	-
Mode 50	U-NII-2C	5.47-5.85	7+8	802.11ax HE80	138	5690	MCS0	Full RU	-
Mode 68	U-NII-2C	5.47-5.725	7+8	802.11ax HE160	114	5570	MCS0	Full RU	Battery 2
Mode 69	U-NII-2C	5.47-5.725	7+8	802.11ax HE160	114	5570	MCS0	Full RU	Battery 3
Mode 70	U-NII-2C	5.47-5.725	7+8	802.11ax HE160	114	5570	MCS0	Full RU	Sample 2
Mode 71	U-NII-2C	5.47-5.725	7+8	802.11ax HE160	114	5570	MCS0	Full RU	LF



Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
1	802.11a	36	5149.03	52.00	54.00	-2.00	H	AVERAGE	Pass	Band Edge
	802.11a	36	10360.00	44.30	68.30	-24.00	H	PEAK	Pass	Harmonic
2	802.11a	44	5029.14	47.40	54.00	-6.60	H	AVERAGE	Pass	Band Edge
	802.11a	44	10440.00	43.79	68.30	-24.51	H	PEAK	Pass	Harmonic
3	802.11a	48	5032.29	47.40	54.00	-6.60	H	AVERAGE	Pass	Band Edge
	802.11a	48	10480.00	44.08	68.30	-24.22	H	PEAK	Pass	Harmonic
4	802.11ax HE20	36	5149.99	51.88	54.00	-2.12	H	AVERAGE	Pass	Band Edge
	802.11ax HE20	36	10360.00	43.67	68.30	-24.63	V	PEAK	Pass	Harmonic
5	802.11ax HE20	36	5149.85	52.40	54.00	-1.60	H	AVERAGE	Pass	Band Edge
	802.11ax HE20	36	-	-	-	-	-	-	-	Harmonic
6	802.11ax HE20	44	5010.24	47.48	54.00	-6.52	V	AVERAGE	Pass	Band Edge
6	802.11ax HE20	44	10440.00	44.20	68.30	-24.10	H	PEAK	Pass	Harmonic
7	802.11ax HE20	48	5004.69	47.52	54.00	-6.48	H	AVERAGE	Pass	Band Edge
	802.11ax HE20	48	10480.00	44.32	68.30	-23.98	H	PEAK	Pass	Harmonic
8	802.11ax HE40	38	5147.85	50.46	54.00	-3.54	V	AVERAGE	Pass	Band Edge
	802.11ax HE40	38	10380.00	43.10	68.30	-25.20	H	PEAK	Pass	Harmonic
9	802.11ax HE40	38	5149.98	51.14	54.00	-2.86	H	AVERAGE	Pass	Band Edge
	802.11ax HE40	38	-	-	-	-	-	-	-	Harmonic
10	802.11ax HE40	46	5149.84	50.00	54.00	-4.00	H	AVERAGE	Pass	Band Edge
	802.11ax HE40	46	10460.00	44.07	68.30	-24.23	H	PEAK	Pass	Harmonic
11	802.11ax HE80	42	5148.58	52.59	54.00	-1.41	V	AVERAGE	Pass	Band Edge
	802.11ax HE80	42	10420.00	42.99	68.30	-25.31	H	PEAK	Pass	Harmonic



Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
12	802.11ax HE80	42	5141.02	70.77	74.00	-3.23	V	PEAK	Pass	Band Edge
12	802.11ax HE80	42	-	-	-	-	-	-	-	Harmonic
13	802.11ax HE160	50	5398.15	72.20	74.00	-1.80	H	PEAK	Pass	Band Edge
13	802.11ax HE160	50	-	-	-	-	-	-	-	Harmonic
14	802.11a	52	5007.94	47.62	54.00	-6.38	H	AVERAGE	Pass	Band Edge
14	802.11a	52	10520.00	44.04	68.30	-24.26	V	PEAK	Pass	Harmonic
15	802.11a	60	5029.86	47.62	54.00	-6.38	V	AVERAGE	Pass	Band Edge
15	802.11a	60	10600.00	44.62	74.00	-29.38	V	PEAK	Pass	Harmonic
16	802.11a	64	5350.01	52.28	54.00	-1.72	H	AVERAGE	Pass	Band Edge
16	802.11a	64	10640.00	44.69	74.00	-29.31	H	PEAK	Pass	Harmonic
17	802.11ax HE20	52	5004.56	47.59	54.00	-6.41	H	AVERAGE	Pass	Band Edge
17	802.11ax HE20	52	10520.00	44.18	68.30	-24.12	H	PEAK	Pass	Harmonic
18	802.11ax HE20	60	5029.50	47.59	54.00	-6.41	V	AVERAGE	Pass	Band Edge
18	802.11ax HE20	60	10600.00	45.35	74.00	-28.65	V	PEAK	Pass	Harmonic
19	802.11ax HE20	64	5350.59	50.17	54.00	-3.83	H	AVERAGE	Pass	Band Edge
19	802.11ax HE20	64	10640.00	44.43	74.00	-29.57	H	PEAK	Pass	Harmonic
20	802.11ax HE20	64	5350.04	49.40	54.00	-4.60	H	AVERAGE	Pass	Band Edge
20	802.11ax HE20	64	-	-	-	-	-	-	-	Harmonic
21	802.11ax HE40	54	5004.90	47.63	54.00	-6.37	H	AVERAGE	Pass	Band Edge
21	802.11ax HE40	54	10540.00	44.29	68.30	-24.01	H	PEAK	Pass	Harmonic
22	802.11ax HE40	62	5350.73	51.92	54.00	-2.08	H	AVERAGE	Pass	Band Edge
22	802.11ax HE40	62	10620.00	44.19	74.00	-29.81	V	PEAK	Pass	Harmonic



Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
23	802.11ax HE40	62	5351.90	52.06	54.00	-1.94	V	AVERAGE	Pass	Band Edge
23	802.11ax HE40	62	-	-	-	-	-	-	-	Harmonic
24	802.11ax HE80	58	5350.77	52.00	54.00	-2.00	H	AVERAGE	Pass	Band Edge
24	802.11ax HE80	58	10580.00	44.01	68.30	-24.29	H	PEAK	Pass	Harmonic
25	802.11ax HE80	58	5358.77	68.16	74.00	-5.84	H	PEAK	Pass	Band Edge
25	802.11ax HE80	58	-	-	-	-	-	-	-	Harmonic
26	802.11ax HE160	50	5371.07	52.78	54.00	-1.22	H	AVERAGE	Pass	Band Edge
26	802.11ax HE160	50	10500.00	43.00	68.30	-25.30	V	PEAK	Pass	Harmonic
27	802.11ax HE160	50	5137.88	71.18	74.00	-2.82	H	PEAK	Pass	Band Edge
27	802.11ax HE160	50	-	-	-	-	-	-	-	Harmonic
28	802.11a	100	5466.63	65.01	68.30	-3.29	H	PEAK	Pass	Band Edge
28	802.11a	100	11000.00	44.90	74.00	-29.10	V	PEAK	Pass	Harmonic
29	802.11a	116	5459.13	46.83	54.00	-7.17	H	AVERAGE	Pass	Band Edge
29	802.11a	116	11160.00	45.28	74.00	-28.72	H	PEAK	Pass	Harmonic
30	802.11a	140	5726.23	66.09	68.30	-2.21	H	PEAK	Pass	Band Edge
30	802.11a	140	11400.00	45.87	74.00	-28.13	V	PEAK	Pass	Harmonic
31	802.11ax HE20	100	5468.88	66.54	68.30	-1.76	V	PEAK	Pass	Band Edge
31	802.11ax HE20	100	11000.00	44.63	74.00	-29.37	H	PEAK	Pass	Harmonic
32	802.11ax HE20	100	5463.33	61.73	68.30	-6.57	V	PEAK	Pass	Band Edge
32	802.11ax HE20	100	-	-	-	-	-	-	-	Harmonic
33	802.11ax HE20	116	5459.56	46.52	54.00	-7.48	H	AVERAGE	Pass	Band Edge
33	802.11ax HE20	116	11160.00	45.60	74.00	-28.40	H	PEAK	Pass	Harmonic



Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
34	802.11ax HE20	140	5728.83	64.84	68.30	-3.46	V	PEAK	Pass	Band Edge
	802.11ax HE20	140	11400.00	45.33	74.00	-28.67	V	PEAK	Pass	Harmonic
35	802.11ax HE20	140	5731.69	63.02	68.30	-5.28	V	PEAK	Pass	Band Edge
	802.11ax HE20	140	-	-	-	-	-	-	-	Harmonic
36	802.11ax HE40	102	5468.97	64.89	68.30	-3.41	V	PEAK	Pass	Band Edge
	802.11ax HE40	102	11020.00	44.70	74.00	-29.30	V	PEAK	Pass	Harmonic
37	802.11ax HE40	102	5463.05	65.27	68.30	-3.03	H	PEAK	Pass	Band Edge
	802.11ax HE40	102	-	-	-	-	-	-	-	Harmonic
38	802.11ax HE40	110	5460.00	50.38	54.00	-3.62	V	AVERAGE	Pass	Band Edge
	802.11ax HE40	110	11100.00	45.07	74.00	-28.93	V	PEAK	Pass	Harmonic
39	802.11ax HE40	134	5725.20	66.33	68.30	-1.97	H	PEAK	Pass	Band Edge
39	802.11ax HE40	134	11340.00	43.78	74.00	-30.22	V	PEAK	Pass	Harmonic
40	802.11ax HE40	134	5731.42	63.20	68.30	-5.10	V	PEAK	Pass	Band Edge
	802.11ax HE40	134	-	-	-	-	-	-	-	Harmonic
41	802.11ax HE80	106	5458.00	52.37	54.00	-1.63	V	AVERAGE	Pass	Band Edge
	802.11ax HE80	106	11060.00	43.99	74.00	-30.01	V	PEAK	Pass	Harmonic
42	802.11ax HE80	106	5467.82	64.37	68.30	-3.93	H	PEAK	Pass	Band Edge
	802.11ax HE80	106	-	-	-	-	-	-	-	Harmonic
43	802.11ax HE80	122	5731.40	63.42	68.30	-4.88	V	PEAK	Pass	Band Edge
	802.11ax HE80	122	11220.00	44.15	74.00	-29.85	V	PEAK	Pass	Harmonic
44	802.11ax HE80	122	5756.90	63.21	68.30	-5.09	H	PEAK	Pass	Band Edge
	802.11ax HE80	122	-	-	-	-	-	-	-	Harmonic



Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
45	802.11ax HE160	114	5457.36	52.88	54.00	-1.12	V	AVERAGE	Pass	Band Edge
	802.11ax HE160	114	11140.00	43.77	74.00	-30.23	H	PEAK	Pass	Harmonic
46	802.11ax HE160	114	5733.32	63.85	68.30	-4.45	V	PEAK	Pass	Band Edge
	802.11ax HE160	114	-	-	-	-	-	-	-	Harmonic
47	802.11a	144	-	-	-	-	-	-	-	Band Edge
	802.11a	144	11440.00	45.42	74.00	-28.58	H	PEAK	Pass	Harmonic
48	802.11ax HE20	144	-	-	-	-	-	-	-	Band Edge
	802.11ax HE20	144	11440.00	45.85	74.00	-28.15	H	PEAK	Pass	Harmonic
49	802.11ax HE40	142	-	-	-	-	-	-	-	Band Edge
	802.11ax HE40	142	11420.00	45.49	74.00	-28.51	V	PEAK	Pass	Harmonic
50	802.11ax HE80	138	-	-	-	-	-	-	-	Band Edge
50	802.11ax HE80	138	11380.00	44.40	74.00	-29.60	H	PEAK	Pass	Harmonic
68	802.11ax HE160	114	5454.40	52.18	54.00	-1.82	H	AVERAGE	Pass	Band Edge
	802.11ax HE160	114	11140.00	46.17	74.00	-27.83	V	Peak	Pass	Harmonic
69	802.11ax HE160	114	5454.52	52.13	54.00	-1.87	H	AVERAGE	Pass	Band Edge
	802.11ax HE160	114	11140.00	45.92	74.00	-28.08	H	PEAK	Pass	Harmonic
70	802.11ax HE160	114	5430.59	51.34	54.00	-2.66	V	AVERAGE	Pass	Band Edge
	802.11ax HE160	114	11140.00	44.68	74.00	-29.32	V	PEAK	Pass	Harmonic
71	802.11ax HE160	114	40.67	33.34	40.00	-6.66	V	Peak	Pass	LF



Mode	1																																																																																			
	Band Edge																																																																																			
	U-NII-1_5.15-5.25_802.11a_CH36_5180MHz																																																																																			
ANT	7+8																																																																																			
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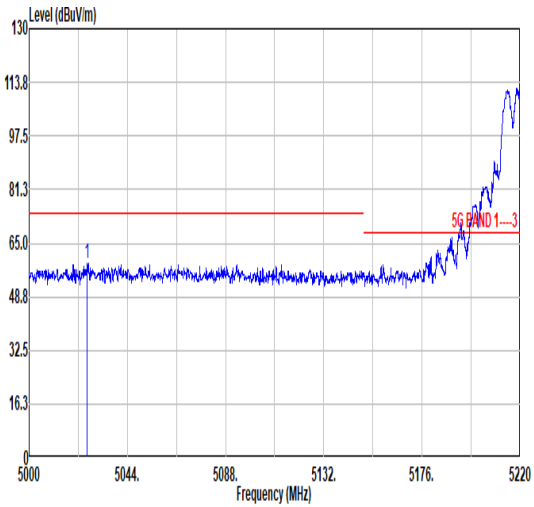
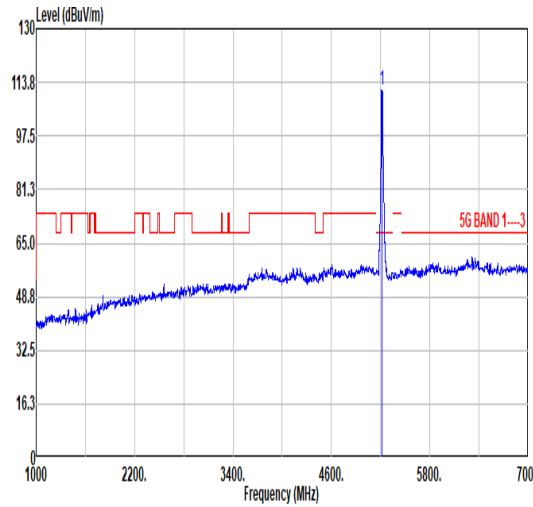
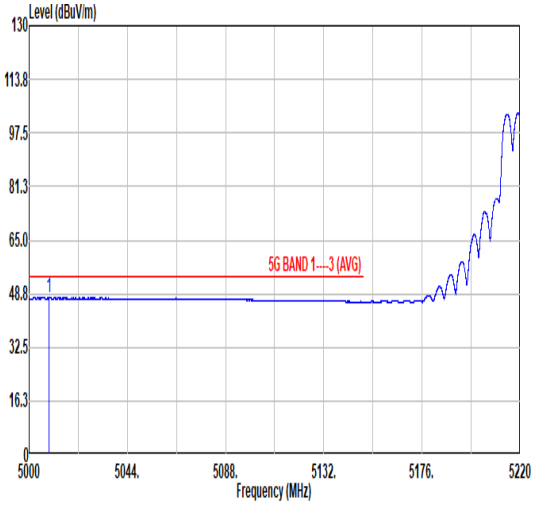
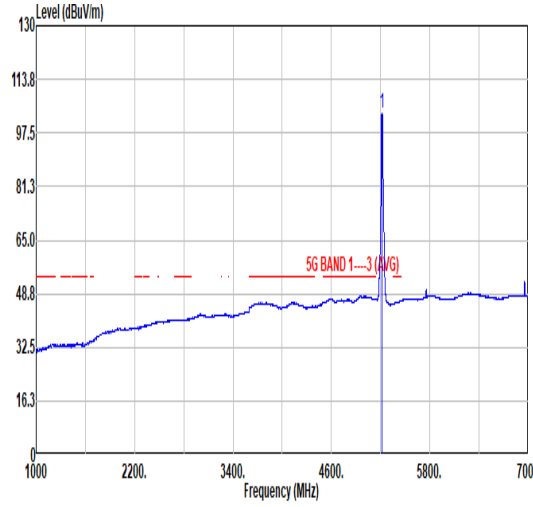


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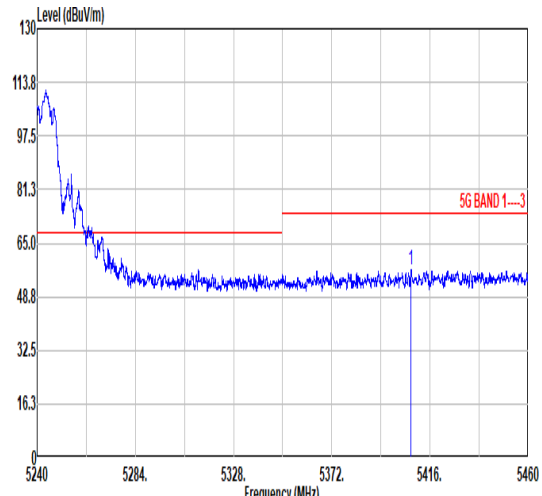
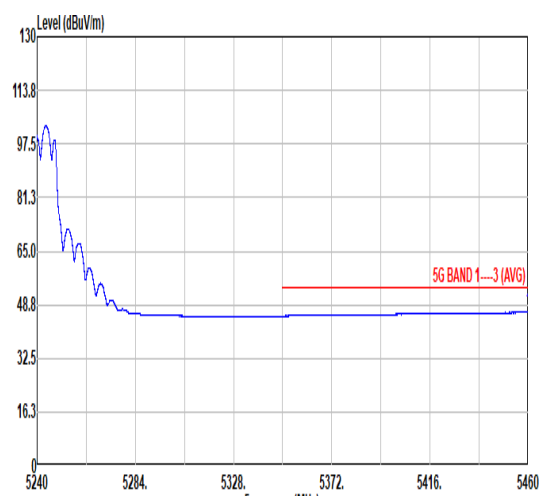


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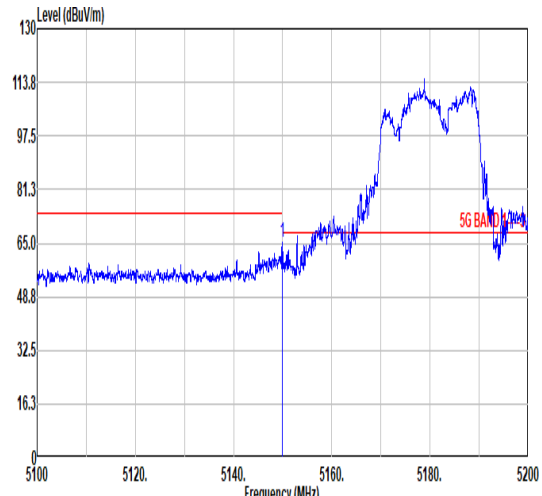
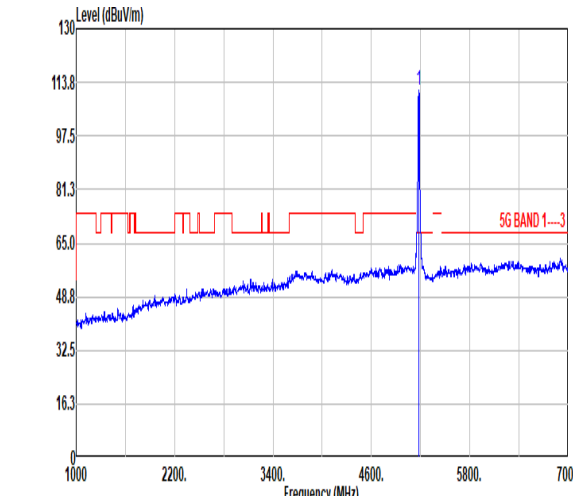
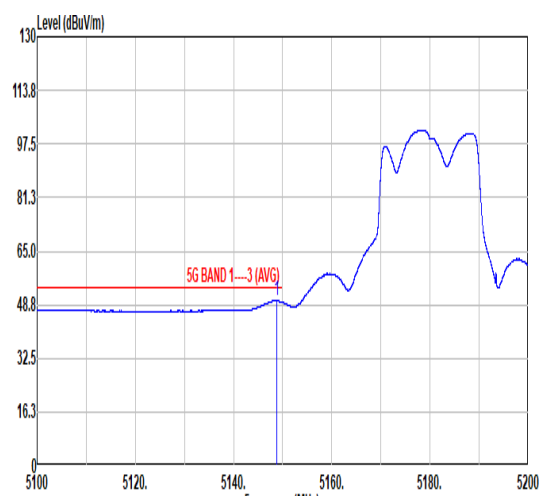
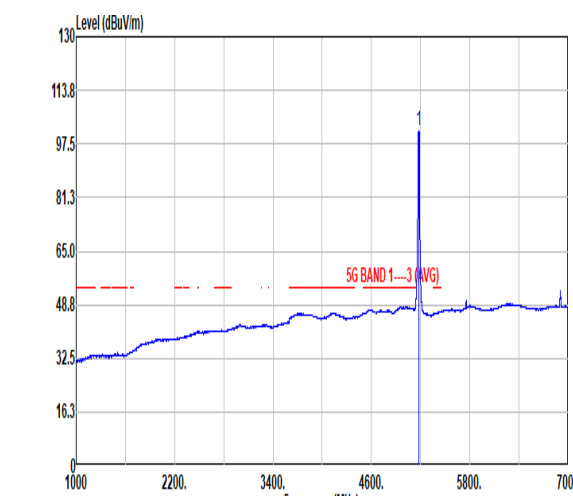


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Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor																																																																								
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB																																																																								
1	5180.00	103.39	68.30	35.09	85.75	34.45	12.52	29.33	0.00	300	334 AVERAGE																																																																					