



■ Report No.: DDT-R21122216-2E06

■ Issued Date: Mar. 08, 2022

FCC AND ISED CERTIFICATION TEST REPORT

FOR

Applicant	:	AudioCodes Ltd.
Address	:	1 Hayarden St. Airport City, Lod Israel 70151
Equipment under Test	:	Video Collaboration Bar
Model No.	:	RXV81
Trade Mark	:	audiocodes
FCC ID	:	XAK-RXV81
IC	:	3808A-RXV81
Manufacturer	:	Guangzhou Shirui Electronics Co Ltd
Address	:	No. 192 Kezhu Road Science Park Economic-Technological Development Area Guangzhou, Guangdong, 510530 CN

Issued By: Dongguan Dongdian Testing Service Co., Ltd.

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REPORT

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Test Report Declare

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Trade Mark	:	audiocodes
Manufacturer	:	Guangzhou Shirui Electronics Co Ltd
Address	:	No. 192 Kezhu Road Science Park Economic-Technological Development Area Guangzhou, Guangdong, 510530 CN

Test Standard Used: FCC Rules and Regulations Part 15 Subpart E, RSS-247 Issue 2 February 2017.

Test procedure used: ANSI C63.10:2013, 789033 D02 General U-NII Test Procedures New Rules v02r01, RSS-Gen Issue 5, Apr. 2018, 662911 D01 Multiple Transmitter Output v02r01

We Declare:

The equipment described above is tested by Dongguan Dongdian Testing Service Co., Ltd. and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and Dongguan Dongdian Testing Service Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

After test and evaluation, our opinion is that the equipment provided for test compliance with the requirement of the above FCC&ISED standards.

Report No:	DDT-R21122216-2E06		
Date of Receipt:	Jan. 07, 2022	Date of Test:	Jan. 07, 2022 ~ Mar. 08, 2022

Prepared By:

Johnny Wang

Johnny Wang/Engineer

Approved By:



Damon Hu/EMC Manager

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Dongguan Dongdian Testing Service Co., Ltd.

Revision History

Rev.	Revisions	Issue Date	Revised By
---	Initial issue	Mar. 08, 2022	

1. Summary of test results

The EUT have been tested according to the applicable standards as referenced below.

Description of Test Item	Standard	Results
6/26db Bandwidth and 99% Bandwidth	FCC 15.407 (e) RSS-247 Clause 6.2	Pass
Maximum Conducted Output Power	FCC 15.407 (a) RSS-247 Clause 6.2	Pass
Power Spectral Density	FCC 15.407 (a) RSS-247 Clause 6.2	Pass
Frequency Stability Measurement	FCC 15.407 (g)	Pass
Emissions in restricted frequency bands	FCC 15.407 (a) FCC 15.209 FCC 15.205 RSS-247 Clause 6.2 RSS-GEN Clause 8.9	Pass
Band Edge Compliance	FCC 15.407 (a) FCC 15.209 FCC 15.205 RSS-247 Clause 6.2 RSS-GEN Clause 8.9	Pass
Power Line Conducted Emission	FCC 15.207 RSS-GEN Clause 8.8	Pass
Antenna requirement	FCC 15.203 RSS-GEN Clause 8.3	Pass
Dynamic Frequency Selection	FCC 15.407 (h) RSS-247 Clause 6.3	N/A

Note: N/A is an abbreviation for Not Applicable and means this test item is not applicable for this device according to the technology characteristic of device.

2. General test information

2.1. Description of EUT

EUT* Name	: Video Collaboration Bar
Model Number	: RXV81
EUT function description	: Please reference user manual of this device
Power supply	: Input: 100-240V ~ 50/60Hz
Radio Technology	: IEEE 802.11a/n/ac
FCC Operation frequency	: IEEE 802.11a: 5180MHz-5240MHz, 5745MHz-5825MHz IEEE 802.11n HT20: 5180MHz-5240MHz, 5745MHz-5825MHz IEEE 802.11n HT40: 5190MHz-5230MHz, 5755MHz-5755MHz IEEE 802.11ac HT20: 5180MHz-5240MHz, 5745MHz-5825MHz IEEE 802.11ac HT40: 5190MHz-5230MHz, 5755MHz-5755MHz IEEE 802.11ac HT80: 5190MHz-5230MHz, 5755MHz-5755MHz IEEE 802.11ac HT80: 5210MHz, 5775MHz
Modulation	: IEEE 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20, HT40: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ac: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK)
Transmitter rate	: IEEE 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps IEEE 802.11n HT20: 14.4, 28.9, 43.3, 57.8, 86.7, 115.6, 130.0, 144.4 Mbps IEEE 802.11n HT40: 30, 60, 90, 120, 180, 240, 270, 300 Mbps IEEE 802.11ac HT20: 14.4, 28.8, 43.4, 57.8, 86.6, 115.6, 130, 144.4, 173.4 Mbps IEEE 802.11ac HT40: 30, 60, 90, 120, 180, 240, 270, 300, 360, 400 Mbps IEEE 802.11ac HT80: 65, 130, 195, 260, 390, 520, 585, 650, 780, 866.6 Mbps
Antenna Type	: Antenna 1: PCB antenna, Maximum PK gain: 1.0 dBi Antenna 2: PCB antenna, Maximum PK gain: 1.0 dBi
Sample Type	: Series production
Serial number	: N/A

Note: EUT is the ab. of equipment under test.

Antenna information			
	Ant1 gain	Ant2 gain	MIMO
IEEE 802.11a	1.0	1.0	/
IEEE 802.11n HT20	1.0	1.0	4.01
IEEE 802.11n HT40	1.0	1.0	4.01
IEEE 802.11ac VHT20	1.0	1.0	4.01
IEEE 802.11ac VHT40	1.0	1.0	4.01
IEEE 802.11ac VHT80	1.0	1.0	4.01

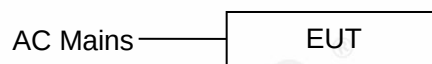
2.2. Accessories of EUT

Assistant equipment	Manufacturer	Model number	Other
Switching adapter	GangQi	GQ36-120300-Ax	Input: 100-240V 50/60Hz ~ Output: DC 12V3A
HDMI cable	N/A	N/A	Length: 1.00m
Remote control	N/A	N/A	N/A
Type-C cable	N/A	N/A	Length: 2.50m

2.3. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	EMC Compliance	SN
N/A	N/A	N/A	N/A	N/A

2.4. Block diagram of EUT configuration for test



Test software: SecureCRTPortable.exe

The test software was used to control EUT work in Continuous Tx mode, and select test channel, wireless mode as below table.

Tested mode, channel, and data rate information				
Mode	Setting Tx Power	data rate (Mbps) (see Note)	Channel	Frequency (MHz)
IEEE 802.11a	/	6	CH36	5180
	/	6	CH40	5200
	/	6	CH48	5240
	/	6	CH149	5745
	/	6	CH157	5785
	/	6	CH165	5825
IEEE 802.11n HT20	/	MCS 0	CH36	5180
	/	MCS 0	CH40	5200
	/	MCS 0	CH48	5240
	/	MCS 0	CH149	5745
	/	MCS 0	CH157	5785
	/	MCS 0	CH165	5825
IEEE 802.11n HT40	40	MCS 0	CH38	5190
	40	MCS 0	CH46	5230
	40	MCS 0	CH151	5755
	40	MCS 0	CH159	5795
IEEE 802.11ac HT20	/	MCS 0	CH36	5180
	/	MCS 0	CH40	5200
	/	MCS 0	CH48	5240
	/	MCS 0	CH149	5745

IEEE 802.11ac HT40	/	MCS 0	CH157	5785
	/	MCS 0	CH165	5825
	45	MCS 0	CH38	5190
	45	MCS 0	CH46	5230
	45	MCS 0	CH151	5755
IEEE 802.11ac HT80	45	MCS 0	CH159	5795
	/	MCS 0	CH42	5210
	/	MCS 0	CH155	5775
Note: According exploratory test, EUT will have maximum output power in those data rate, so those data rate were used for all test.				

2.5. Deviations of test standard

No Deviation.

2.6. Test environment conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature range:	21-25°C
Humidity range:	40-75%
Pressure range:	86-106 kPa

2.7. Test laboratory

Dongguan Dongdian Testing Service Co., Ltd.

Add.: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park, Dongguan City, Guangdong Province, China, 523808.

Tel.: +86-0769-38826678, <http://www.dgddt.com>, Email: ddt@dgddt.com.

CNAS Accreditation No. L6451; A2LA Accreditation Number: 3870.01

FCC Designation Number: CN1182, Test Firm Registration Number: 540522

Innovation, Science and Economic Development Canada Site Registration Number: 10288A

Conformity Assessment Body identifier: CN0048

VCCI facility registration number: C-20087, T-20088, R-20123, G-20118

2.8. Measurement uncertainty

Test Item	Uncertainty
Bandwidth	1.1%
Peak Output Power (Conducted) (Spectrum analyzer)	0.86 dB ($10 \text{ MHz} \leq f < 3.6 \text{ GHz}$);
	1.38 dB ($3.6 \text{ GHz} \leq f < 8 \text{ GHz}$)
Peak Output Power (Conducted) (Power Sensor)	0.74 dB
Power Spectral Density	0.74 dB ($10 \text{ MHz} \leq f < 3.6 \text{ GHz}$);
	1.38 dB ($3.6 \text{ GHz} \leq f < 8 \text{ GHz}$)
Frequencies Stability	6.7×10^{-8} (Antenna couple method)
	5.5×10^{-8} (Conducted method)
Conducted spurious emissions	0.86 dB ($10 \text{ MHz} \leq f < 3.6 \text{ GHz}$);
	1.40 dB ($3.6 \text{ GHz} \leq f < 8 \text{ GHz}$)
	1.66 dB ($8 \text{ GHz} \leq f < 22 \text{ GHz}$)
Uncertainty for radio frequency (RBW<20kHz)	3×10^{-8}
Temperature	0.4°C
Humidity	2%
Uncertainty for Radiation Emission test (30MHz-1GHz)	4.70 dB (Antenna Polarize: V)
	4.84 dB (Antenna Polarize: H)
Uncertainty for Radiation Emission test (1GHz-40GHz)	4.10 dB (1-6 GHz)
	4.40 dB (6 GHz-18 GHz)
	3.54 dB (18 GHz-26 GHz)
	4.30 dB (26 GHz-40 GHz)
Uncertainty for Power line conduction emission test	3.32 dB (150 kHz-30 MHz)

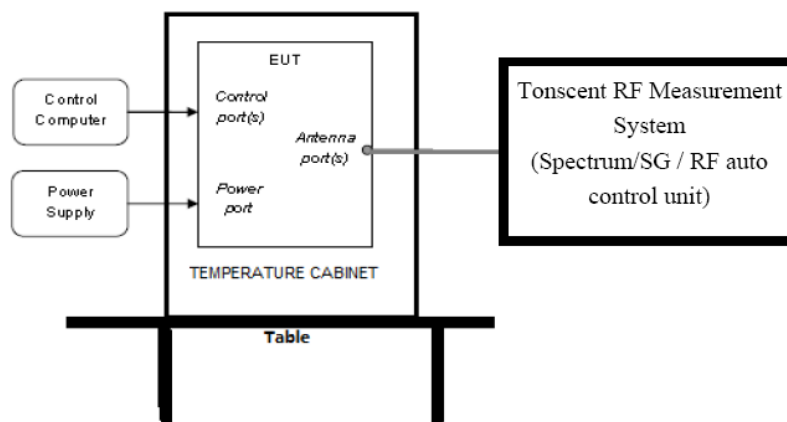
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

3. Equipment used during test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
☑RF Connected Test (Tonscend RF Measurement System 1#)					
Spectrum analyzer	R&S	FSU26	200071	Sep. 02, 2021	1 Year
Wideband Radio Communication tester	R&S	CMW500	120259	Sep. 02, 2021	1 Year
Vector Signal Generator	Agilent	E8267D	US49060192	Sep. 18, 2021	1 Year
Vector Signal Generator	Agilent	N5182A	MY48180737	Jun. 01, 2021	1 Year
RF Control Unit	Tonsend	JS0806-2	158060010	Jun. 01, 2021	1 Year
Temp&Humi Programmable	ZHIXIANG	ZXGDJS-150 L	ZX170110-A	Jun. 01, 2021	1 Year
Test Software	JS Tonscend	JS1120-3	Ver.2.6.77.0518	N/A	N/A
☑Radiation 3#chamber					
EMI Test Receiver	R&S	ESU	100472	Jun. 01, 2021	1 Year
Spectrum analyzer	Agilent	E4447A	MY50180031	Jun. 01, 2021	1 Year
Active Loop antenna	Schwarzbeck	FMZB-1519	1519-038	Sep. 19, 2021	1 Year
Trilog Broadband Antenna	Schwarzbeck	VULB 9163	01429	Aug. 07, 2021	1 Year
Double Ridged Horn Antenna	Schwarzbeck	BBHA9120	02108	Jul. 17, 2021	1 Year
Broad Band Horn Antenna	Schwarzbeck	BBHA 9170	790	May 08, 2021	1 Year
Pre-amplifier	COM-POWER	PAM-118A	18040084	Sep. 02, 2021	1 Year
Pre-amplifier	COM-POWER	PAM-840A	461369	Mar. 15, 2021	1 Year
Test software	Audix	E3	V 6.1.1.1	N/A	N/A
☑Power Line Conducted Emissions Test 1#					
Test Receiver	R&S	ESCI	100551	Sep. 02, 2021	1 Year
LISN 1	R&S	ENV216	101109	Sep. 02, 2021	1 Year
LISN 2	R&S	ESH2-Z5	100309	Sep. 02, 2021	1 Year
Pulse Limiter	R&S	ESH3-Z2	101242	Sep. 02, 2021	1 Year
CE Cable 1	HUBSER	N/A	W10.01	Sep. 02, 2021	1 Year
LISN 3	SCHWARZBECK	NSLK 8163	00017	Sep. 02, 2021	1 Year
Test software	Audix	E3	V 6.11111b	N/A	N/A

4. 26dB Bandwidth, 6dB Bandwidth and 99% Bandwidth

4.1. Block diagram of test setup



4.2. Limits

FCC Part15, Subpart E/ RSS-247		
Test Item	Limit	Frequency Range (MHz)
Bandwidth	26 dB Bandwidth	5150-5250
	26 dB Bandwidth	5250-5350
	26 dB Bandwidth	For FCC:5470-5725 For IC:5470-5600 5650-5725
	Minimum 500kHz 6dB Bandwidth	5725-5850

4.3. Test Procedure

(1) Connect EUT's antenna output to spectrum analyzer by RF cable.

Center Frequency	The centre frequency of the channel under test
Detector	Peak
RBW	For 6 dB Bandwidth: RBW=100 kHz For 26 dB Bandwidth: approximately 1% of the emission bandwidth.
VBW	For 6 dB Bandwidth: VBW=300 kHz For 26 dB Bandwidth: >3 RBW
Trace	Max hold
Sweep	Auto couple

(2) Allow the trace to stabilize, measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 26 dB and 6 dB relative to the maximum level measured in the fundamental emission.

4.4. Test Result

Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	16.44	5171.800	5188.240	---	Pass
	Ant2	5180	16.44	5171.800	5188.240	---	Pass
	Ant1	5200	16.44	5191.800	5208.240	---	Pass
	Ant2	5200	16.44	5191.800	5208.240	---	Pass
	Ant1	5240	16.48	5231.760	5248.240	---	Pass
	Ant2	5240	16.48	5231.760	5248.240	---	Pass
	Ant1	5745	16.44	5736.760	5753.200	---	Pass
	Ant2	5745	16.44	5736.760	5753.200	---	Pass
	Ant1	5785	16.44	5776.760	5793.200	---	Pass
	Ant2	5785	16.40	5776.800	5793.200	---	Pass
	Ant1	5825	16.48	5816.760	5833.240	---	Pass
	Ant2	5825	16.40	5816.800	5833.200	---	Pass
11N20MIMO	Ant1	5180	17.56	5171.240	5188.800	---	Pass
	Ant2	5180	17.56	5171.240	5188.800	---	Pass
	Ant1	5200	17.60	5191.240	5208.840	---	Pass
	Ant2	5200	17.60	5191.240	5208.840	---	Pass
	Ant1	5240	17.60	5231.200	5248.800	---	Pass
	Ant2	5240	17.60	5231.200	5248.800	---	Pass
	Ant1	5745	17.56	5736.200	5753.760	---	Pass
	Ant2	5745	17.60	5736.200	5753.800	---	Pass
	Ant1	5785	17.56	5776.240	5793.800	---	Pass
	Ant2	5785	17.52	5776.240	5793.760	---	Pass
	Ant1	5825	17.60	5816.200	5833.800	---	Pass
	Ant2	5825	17.60	5816.200	5833.800	---	Pass
11N40MIMO	Ant1	5190	36.48	5171.840	5208.320	---	Pass
	Ant2	5190	36.56	5171.840	5208.400	---	Pass
	Ant1	5230	36.40	5211.840	5248.240	---	Pass
	Ant2	5230	36.48	5211.840	5248.320	---	Pass
	Ant1	5755	36.72	5736.600	5773.320	---	Pass
	Ant2	5755	36.64	5736.680	5773.320	---	Pass
	Ant1	5795	36.48	5776.760	5813.240	---	Pass
	Ant2	5795	36.56	5776.680	5813.240	---	Pass
11AC20MIMO	Ant1	5180	17.56	5171.240	5188.800	---	Pass
	Ant2	5180	17.56	5171.240	5188.800	---	Pass
	Ant1	5200	17.60	5191.240	5208.840	---	Pass
	Ant2	5200	17.56	5191.240	5208.800	---	Pass
	Ant1	5240	17.64	5231.200	5248.840	---	Pass
	Ant2	5240	17.60	5231.200	5248.800	---	Pass
	Ant1	5745	17.56	5736.200	5753.760	---	Pass
	Ant2	5745	17.56	5736.200	5753.760	---	Pass
	Ant1	5785	17.60	5776.200	5793.800	---	Pass
	Ant2	5785	17.52	5776.240	5793.760	---	Pass
	Ant1	5825	17.64	5816.200	5833.840	---	Pass
	Ant2	5825	17.60	5816.200	5833.800	---	Pass
11AC40MIMO	Ant1	5190	36.56	5171.840	5208.400	---	Pass
	Ant2	5190	36.56	5171.840	5208.400	---	Pass
	Ant1	5230	36.56	5211.840	5248.400	---	Pass
	Ant2	5230	36.48	5211.840	5248.320	---	Pass

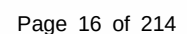
	Ant1	5755	36.48	5736.680	5773.160	---	Pass
	Ant2	5755	36.48	5736.760	5773.240	---	Pass
	Ant1	5795	36.40	5776.760	5813.160	---	Pass
	Ant2	5795	36.40	5776.680	5813.080	---	Pass
11AC80MIMO	Ant1	5210	74.72	5172.880	5247.600	---	Pass
	Ant2	5210	74.56	5172.880	5247.440	---	Pass
	Ant1	5775	74.56	5737.720	5812.280	---	Pass
	Ant2	5775	74.40	5737.720	5812.120	---	Pass

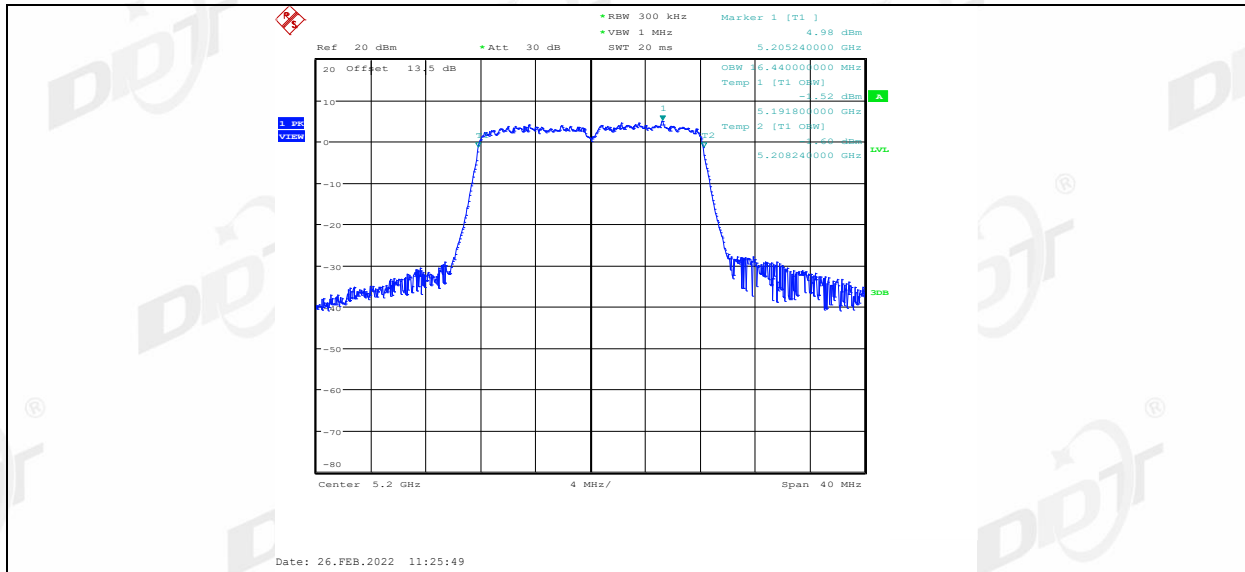
Test Mode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	18.640	5170.640	5189.280	---	Pass
	Ant2	5180	18.600	5170.720	5189.320	---	Pass
	Ant1	5200	18.440	5190.840	5209.280	---	Pass
	Ant2	5200	18.520	5190.720	5209.240	---	Pass
	Ant1	5240	18.640	5230.680	5249.320	---	Pass
	Ant2	5240	18.720	5230.640	5249.360	---	Pass
	Ant1	5745	18.600	5735.640	5754.240	---	Pass
	Ant2	5745	18.600	5735.680	5754.280	---	Pass
	Ant1	5785	18.520	5775.760	5794.280	---	Pass
	Ant2	5785	18.560	5775.640	5794.200	---	Pass
	Ant1	5825	18.520	5815.760	5834.280	---	Pass
	Ant2	5825	18.440	5815.760	5834.200	---	Pass
11N20MIMO	Ant1	5180	19.440	5170.280	5189.720	---	Pass
	Ant2	5180	19.400	5170.320	5189.720	---	Pass
	Ant1	5200	19.520	5190.240	5209.760	---	Pass
	Ant2	5200	19.560	5190.240	5209.800	---	Pass
	Ant1	5240	19.560	5230.240	5249.800	---	Pass
	Ant2	5240	19.440	5230.280	5249.720	---	Pass
	Ant1	5745	19.520	5735.200	5754.720	---	Pass
	Ant2	5745	19.480	5735.240	5754.720	---	Pass
	Ant1	5785	19.480	5775.240	5794.720	---	Pass
	Ant2	5785	19.360	5775.320	5794.680	---	Pass
	Ant1	5825	19.520	5815.200	5834.720	---	Pass
	Ant2	5825	19.480	5815.160	5834.640	---	Pass
11N40MIMO	Ant1	5190	41.840	5169.280	5211.120	---	Pass
	Ant2	5190	41.680	5169.280	5210.960	---	Pass
	Ant1	5230	41.520	5209.280	5250.800	---	Pass
	Ant2	5230	41.440	5209.200	5250.640	---	Pass
	Ant1	5755	41.600	5734.040	5775.640	---	Pass
	Ant2	5755	41.840	5733.880	5775.720	---	Pass
	Ant1	5795	41.920	5773.960	5815.880	---	Pass
	Ant2	5795	41.760	5773.960	5815.720	---	Pass
11AC20MIMO	Ant1	5180	19.520	5170.280	5189.800	---	Pass
	Ant2	5180	19.480	5170.280	5189.760	---	Pass
	Ant1	5200	19.560	5190.280	5209.840	---	Pass
	Ant2	5200	19.480	5190.320	5209.800	---	Pass
	Ant1	5240	19.560	5230.200	5249.760	---	Pass
	Ant2	5240	19.480	5230.280	5249.760	---	Pass
	Ant1	5745	19.400	5735.280	5754.680	---	Pass
	Ant2	5745	19.440	5735.240	5754.680	---	Pass

	Ant1	5785	19.480	5775.240	5794.720	---	Pass
	Ant2	5785	19.480	5775.240	5794.720	---	Pass
	Ant1	5825	19.520	5815.280	5834.800	---	Pass
	Ant2	5825	19.440	5815.280	5834.720	---	Pass
11AC40MIMO	Ant1	5190	41.600	5169.440	5211.040	---	Pass
	Ant2	5190	41.680	5169.280	5210.960	---	Pass
	Ant1	5230	41.680	5209.280	5250.960	---	Pass
	Ant2	5230	41.200	5209.360	5250.560	---	Pass
	Ant1	5755	41.920	5733.960	5775.880	---	Pass
	Ant2	5755	41.760	5734.120	5775.880	---	Pass
	Ant1	5795	41.520	5774.200	5815.720	---	Pass
	Ant2	5795	41.280	5774.200	5815.480	---	Pass
11AC80MIMO	Ant1	5210	81.760	5169.520	5251.280	---	Pass
	Ant2	5210	81.760	5169.360	5251.120	---	Pass
	Ant1	5775	81.280	5734.360	5815.640	---	Pass
	Ant2	5775	81.120	5734.360	5815.480	---	Pass

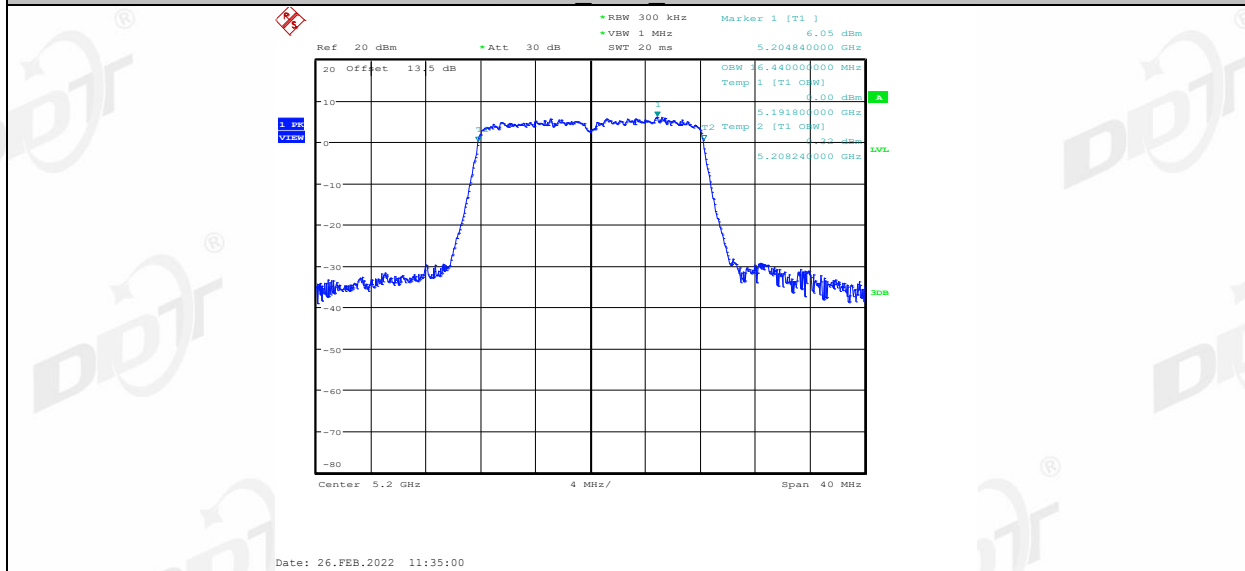
Test Mode	Antenna	Channel	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.400	5736.760	5753.160	0.5	Pass
	Ant2	5745	16.400	5736.760	5753.160	0.5	Pass
	Ant1	5785	16.400	5776.760	5793.160	0.5	Pass
	Ant2	5785	16.160	5776.760	5792.920	0.5	Pass
	Ant1	5825	16.440	5816.760	5833.200	0.5	Pass
	Ant2	5825	16.400	5816.760	5833.160	0.5	Pass
11N20MIMO	Ant1	5745	17.240	5736.160	5753.400	0.5	Pass
	Ant2	5745	17.400	5736.160	5753.560	0.5	Pass
	Ant1	5785	17.240	5776.560	5793.800	0.5	Pass
	Ant2	5785	17.000	5776.440	5793.440	0.5	Pass
	Ant1	5825	17.600	5816.200	5833.800	0.5	Pass
	Ant2	5825	17.400	5816.160	5833.560	0.5	Pass
11N40MIMO	Ant1	5755	35.280	5737.320	5772.600	0.5	Pass
	Ant2	5755	35.200	5737.400	5772.600	0.5	Pass
	Ant1	5795	35.200	5777.400	5812.600	0.5	Pass
	Ant2	5795	35.280	5777.320	5812.600	0.5	Pass
11AC20MIMO	Ant1	5745	17.360	5736.160	5753.520	0.5	Pass
	Ant2	5745	17.360	5736.160	5753.520	0.5	Pass
	Ant1	5785	17.360	5776.440	5793.800	0.5	Pass
	Ant2	5785	17.080	5776.440	5793.520	0.5	Pass
	Ant1	5825	17.640	5816.160	5833.800	0.5	Pass
	Ant2	5825	17.240	5816.200	5833.440	0.5	Pass
11AC40MIMO	Ant1	5755	35.200	5737.400	5772.600	0.5	Pass
	Ant2	5755	35.200	5737.320	5772.520	0.5	Pass
	Ant1	5795	35.280	5777.320	5812.600	0.5	Pass
	Ant2	5795	35.280	5777.320	5812.600	0.5	Pass
11AC80MIMO	Ant1	5775	70.400	5739.800	5810.200	0.5	Pass
	Ant2	5775	71.680	5739.800	5811.480	0.5	Pass

99% OBW:

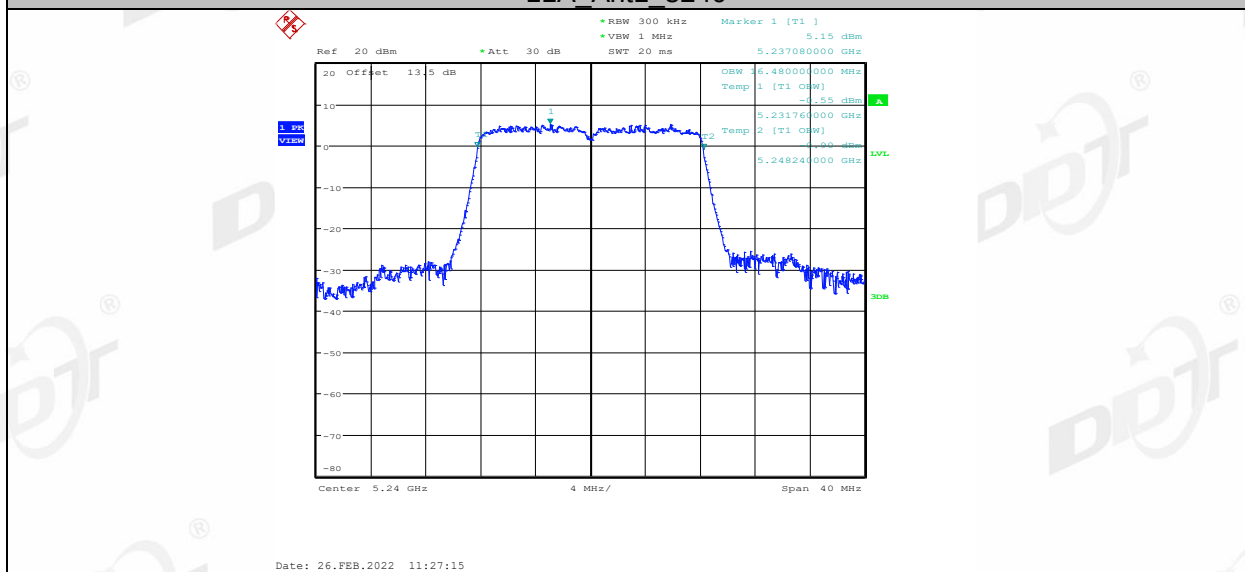




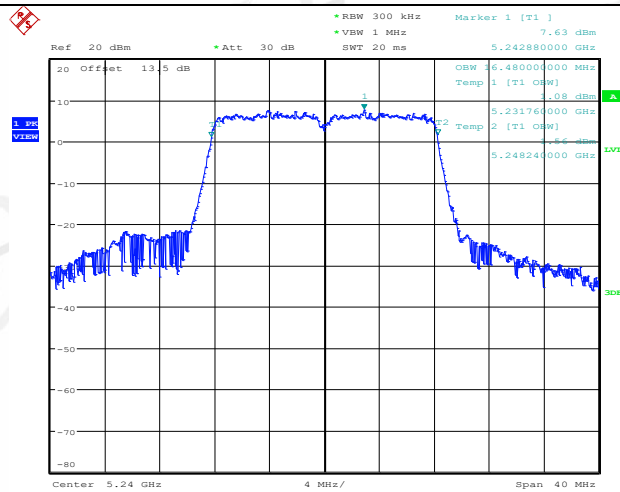
11A Ant2 5200



11A Ant1 5240

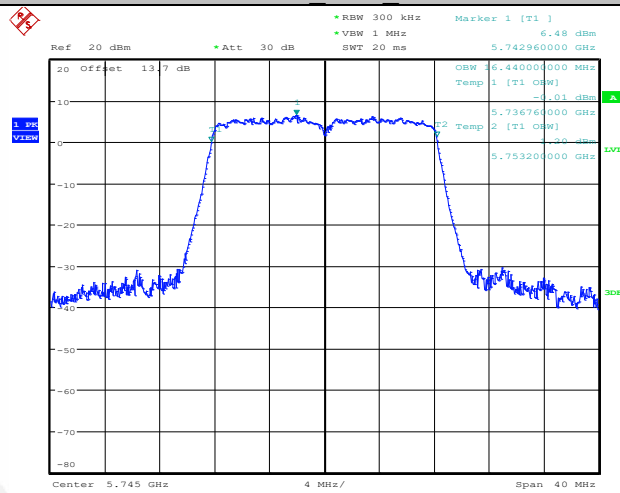


11A Ant2 5240



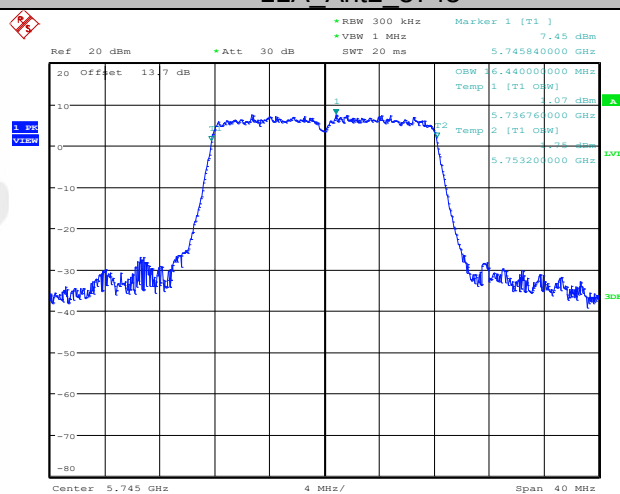
Date: 26.FEB.2022 11:37:36

11A Ant1 5745



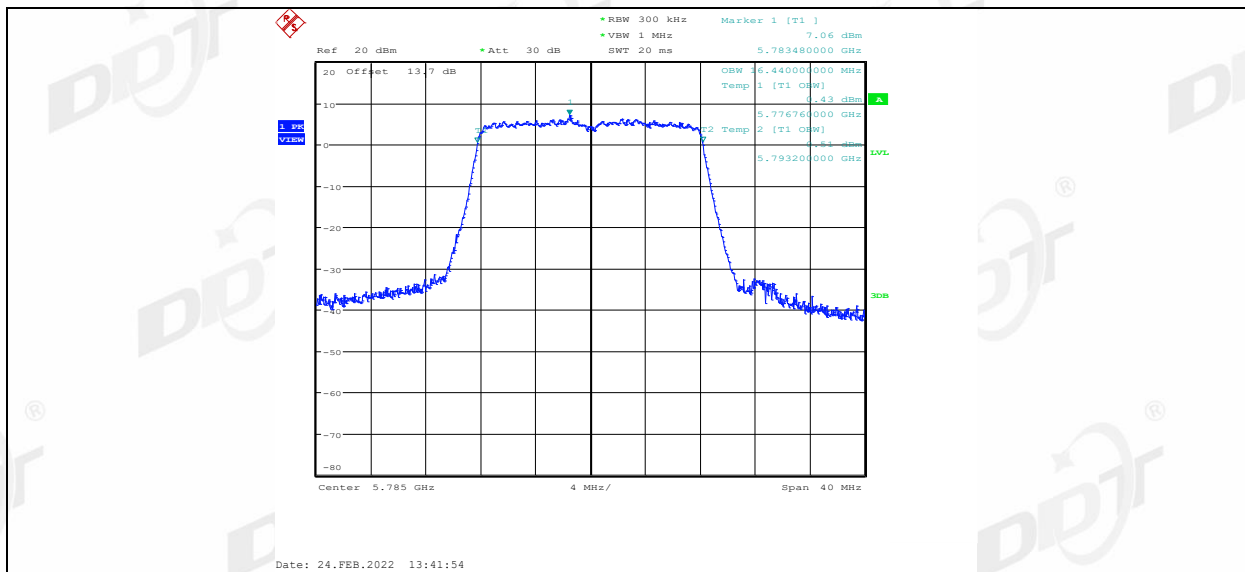
Date: 24.FEB.2022 13:35:23

11A Ant2 5745

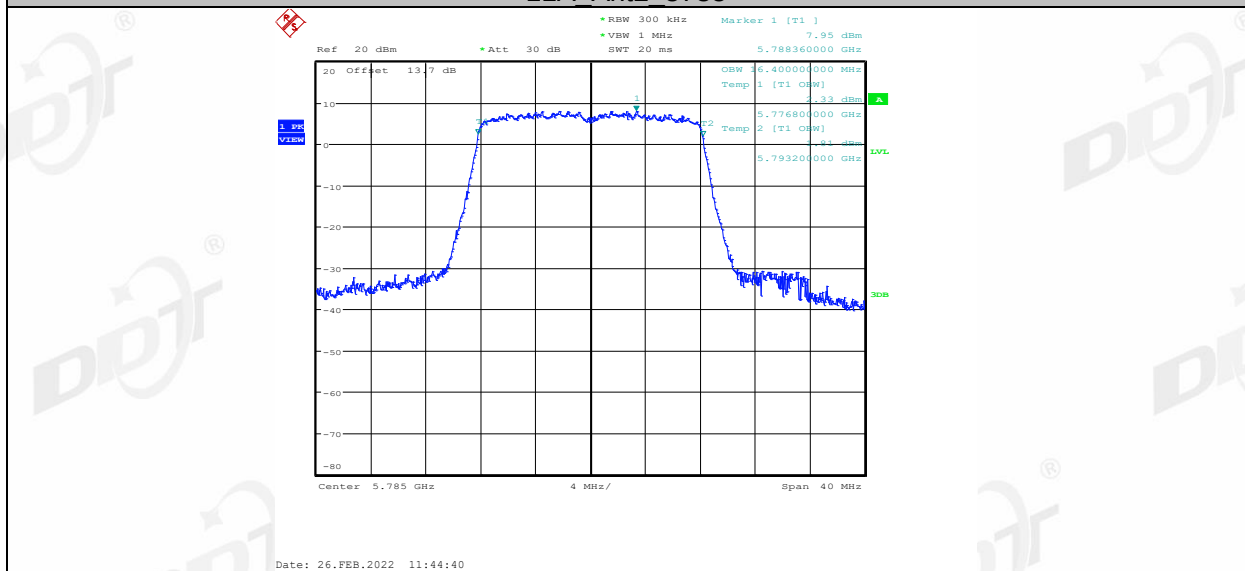


Date: 26.FEB.2022 11:41:52

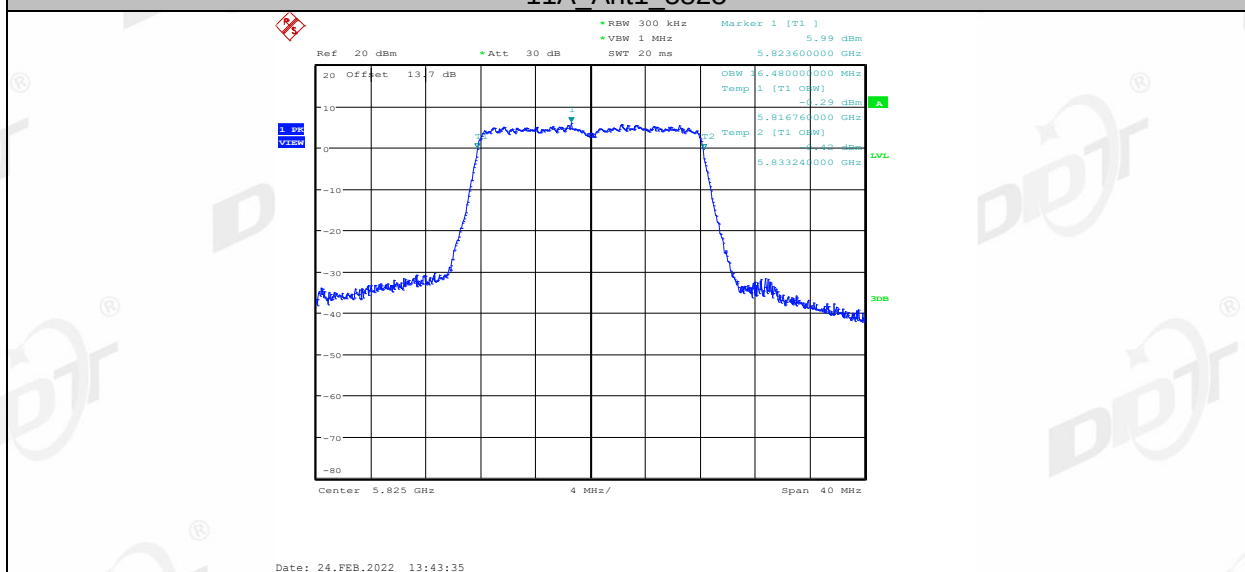
11A Ant1 5785



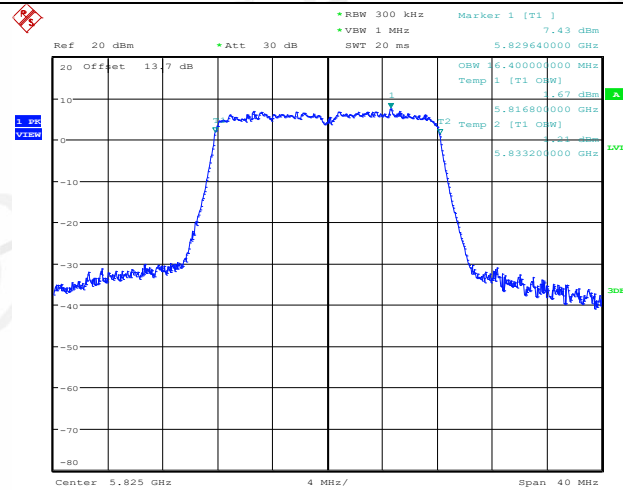
11A Ant2 5785



11A Ant1 5825

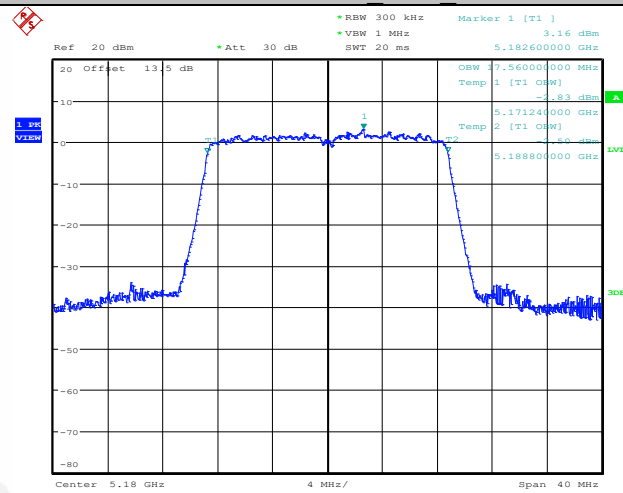


11A Ant2 5825



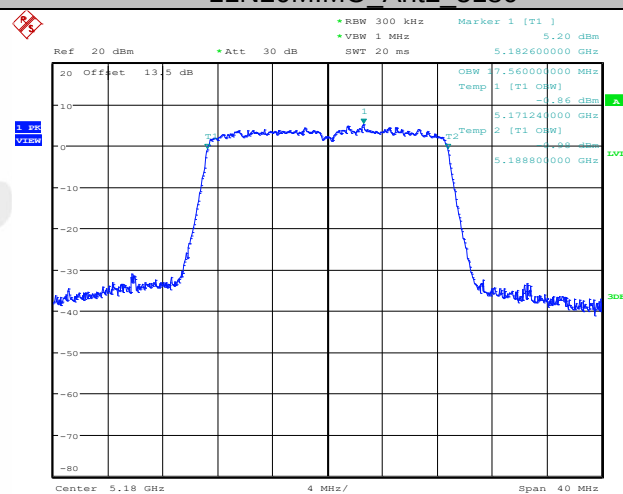
Date: 26.FEB.2022 11:46:20

11N20MIMO_Ant1_5180



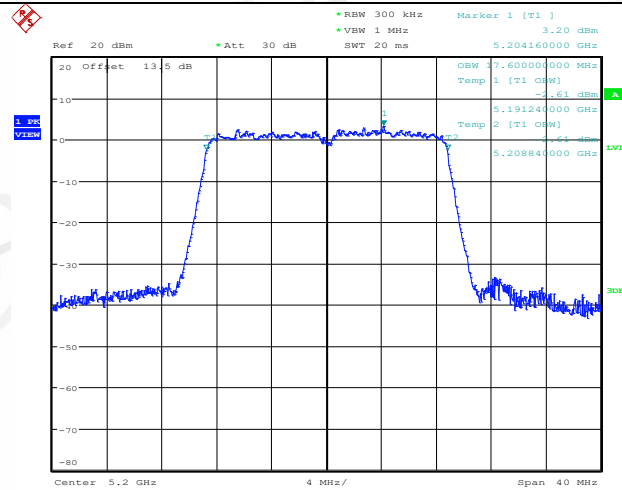
Date: 26.FEB.2022 11:53:14

11N20MIMO_Ant2_5180



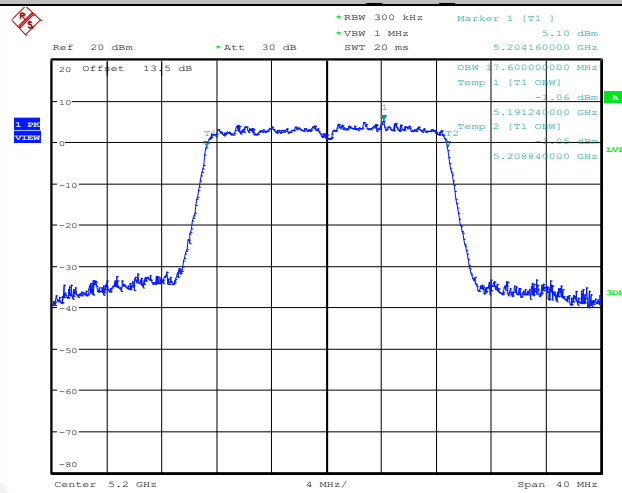
Date: 26.FEB.2022 11:54:34

11N20MIMO_Ant1_5200



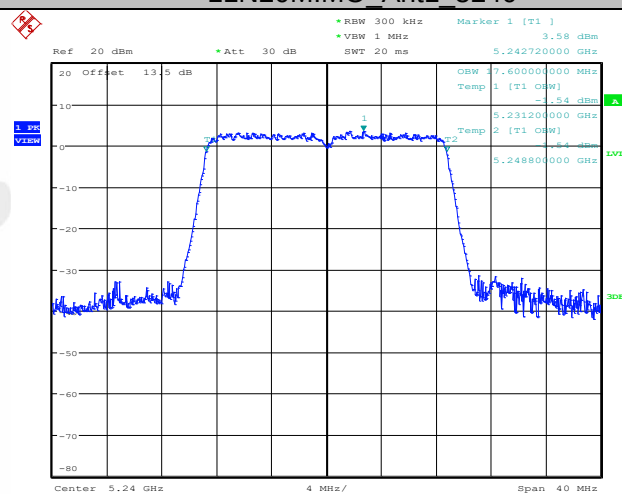
Date: 26.FEB.2022 11:57:30

11N20MIMO_Ant2_5200



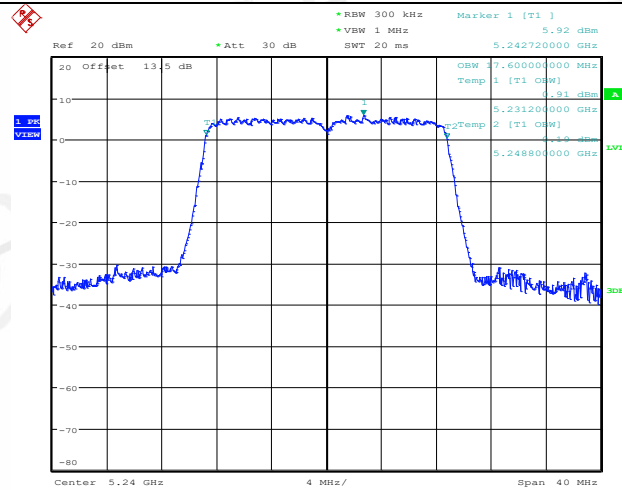
Date: 26.FEB.2022 11:59:35

11N20MIMO_Ant1_5240

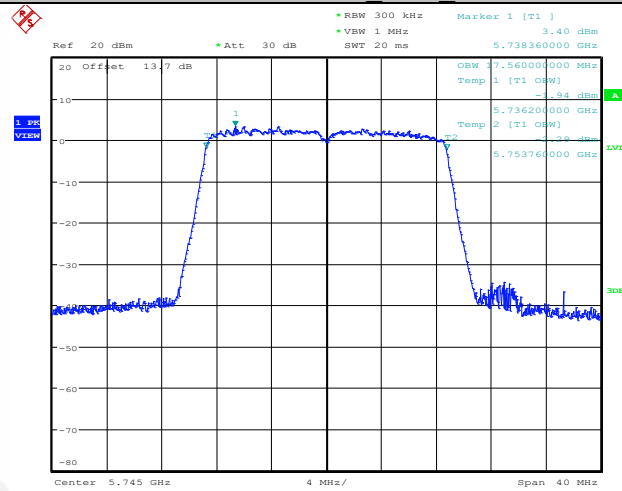


Date: 26.FEB.2022 12:00:39

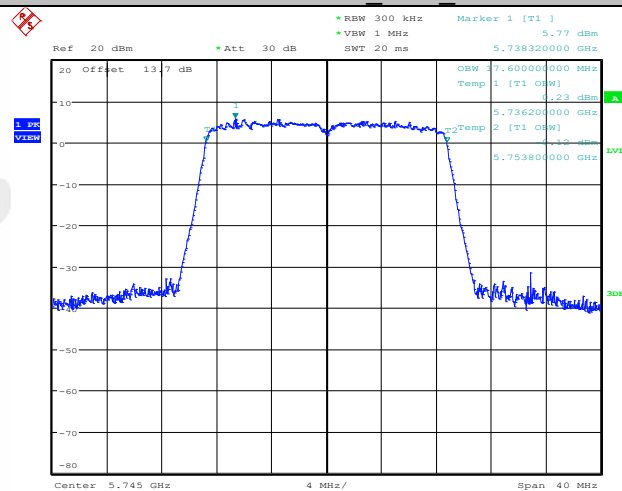
11N20MIMO_Ant2_5240



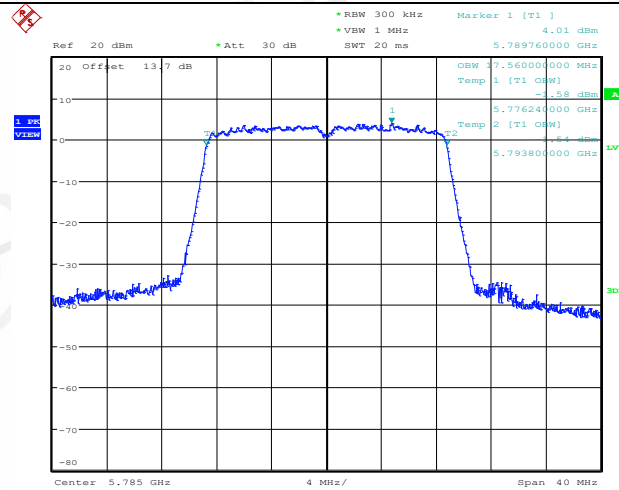
11N20MIMO_Ant1_5745



11N20MIMO_Ant2_5745

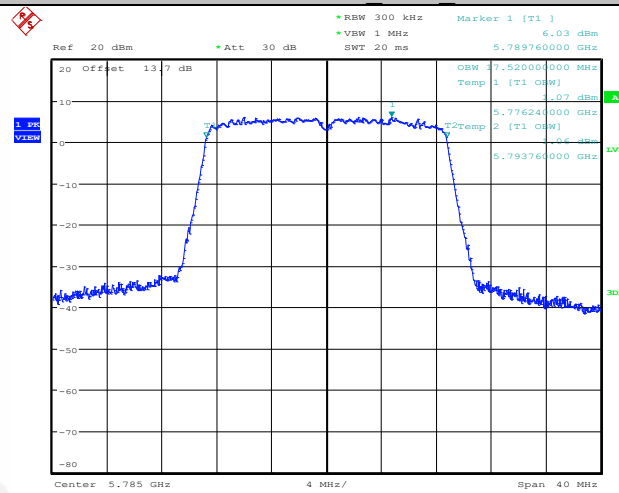


11N20MIMO_Ant1_5785



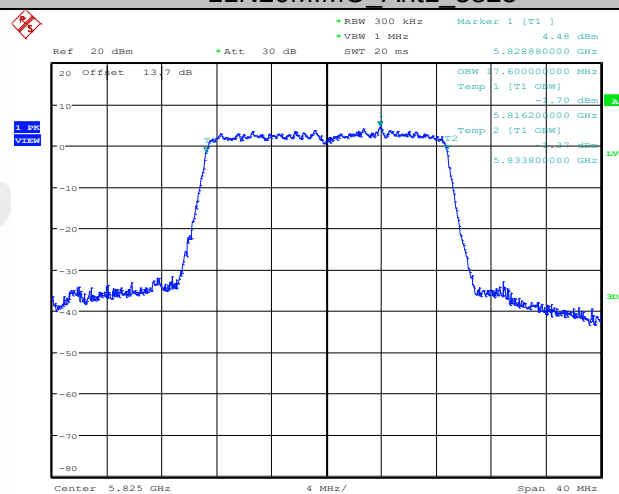
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11N20MIMO Ant2 5785



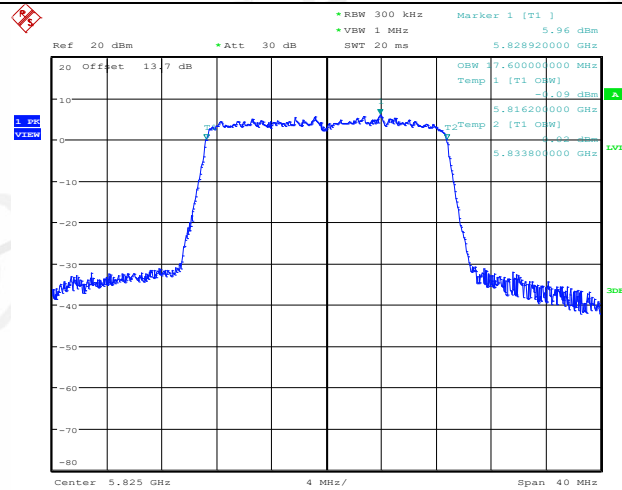
Date: 26.FEB.2022 12:10:38

11N20MIMO Ant1 5825



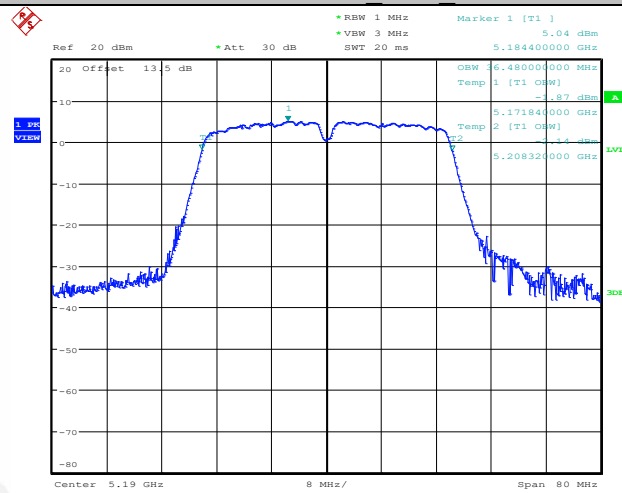
Date: 26.FEB.2022 12:12:18

11N20MIMO Ant2 5825



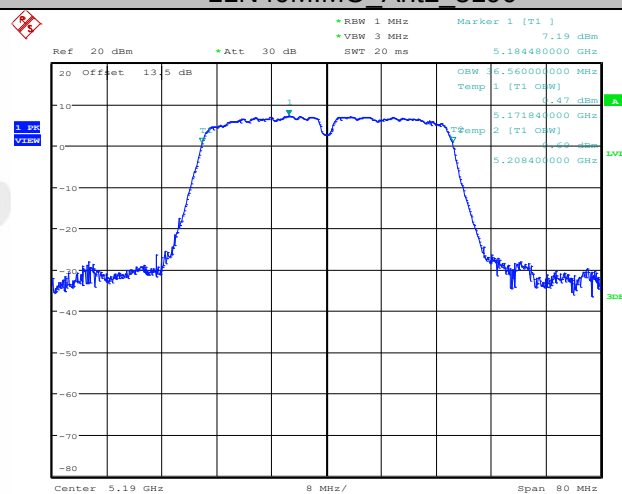
Date: 26.FEB.2022 12:35:43

11N40MIMO Ant1 5190



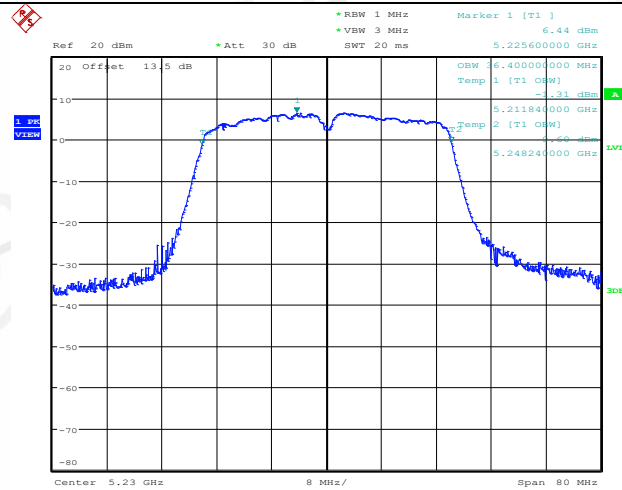
Date: 26.FEB.2022 12:40:52

11N40MIMO Ant2 5190



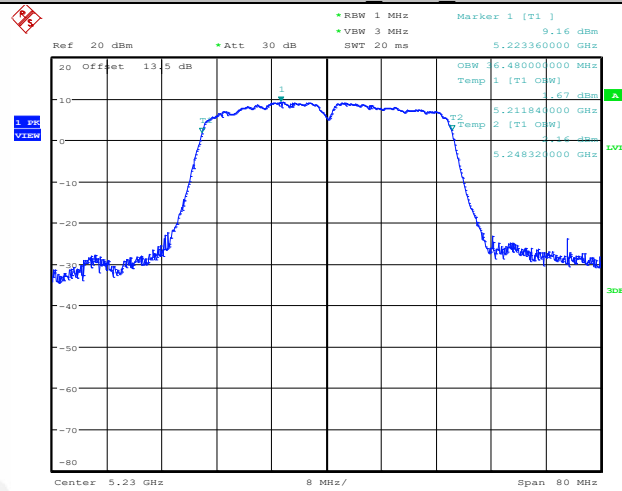
Date: 26.FEB.2022 12:42:02

11N40MIMO Ant1 5230



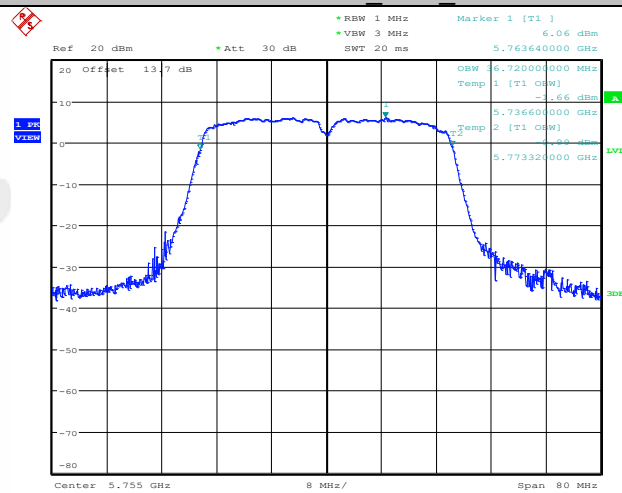
Date: 26.FEB.2022 12:43:13

11N40MIMO Ant2 5230



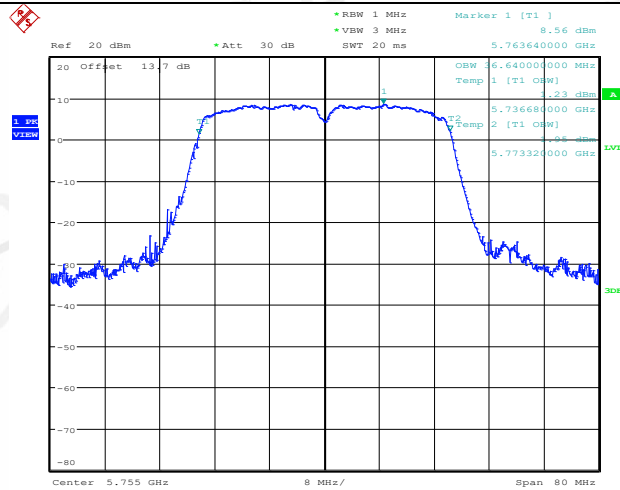
Date: 26.FEB.2022 12:44:19

11N40MIMO Ant1 5755



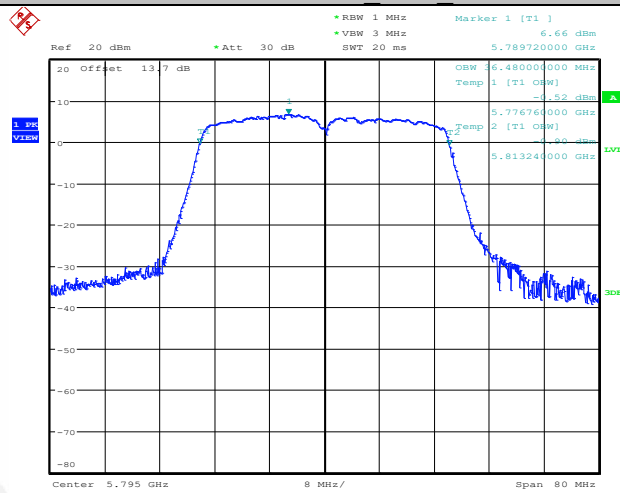
Date: 26.FEB.2022 12:45:37

11N40MIMO Ant2 5755



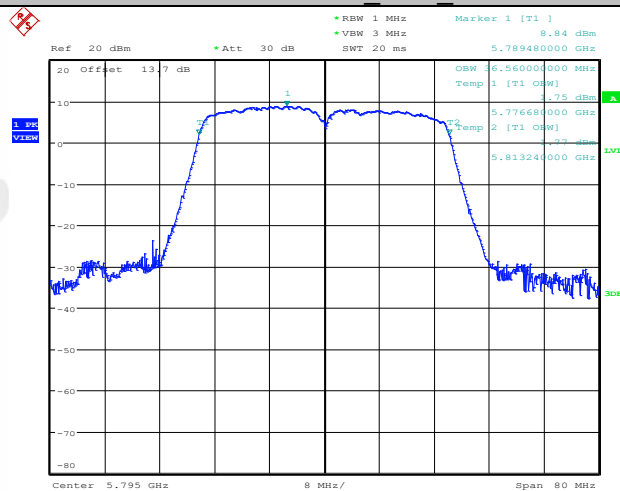
Date: 26.FEB.2022 12:47:56

11N40MIMO_Ant1_5795



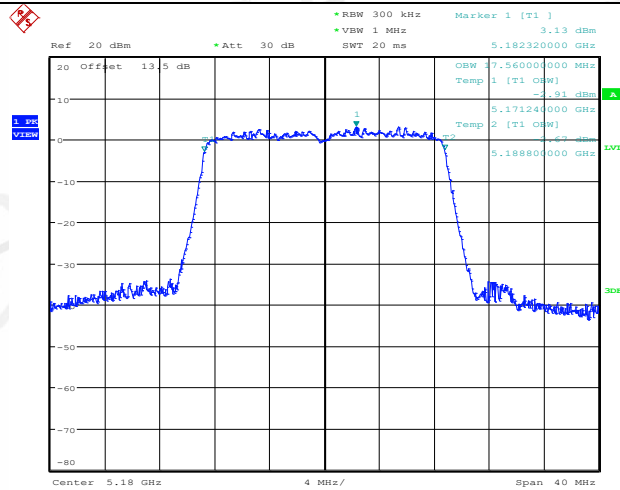
Date: 26.FEB.2022 12:50:36

11N40MIMO_Ant2_5795



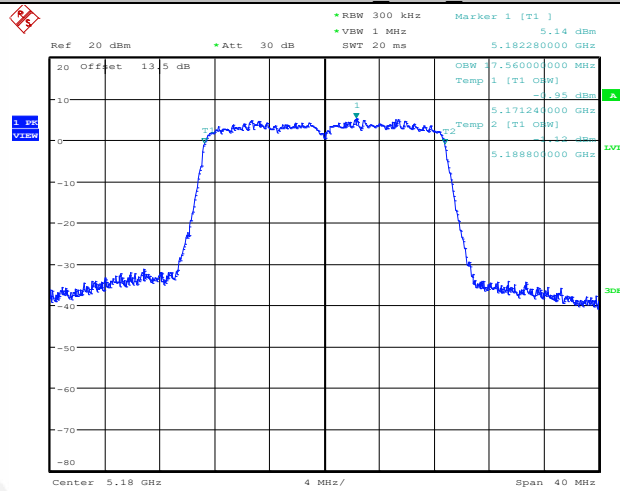
Date: 26.FEB.2022 12:52:12

11AC20MIMO_Ant1_5180



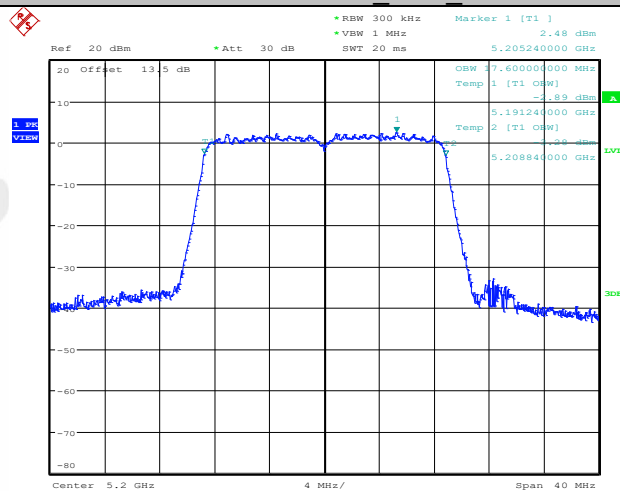
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11AC20MIMO_Ant2_5180



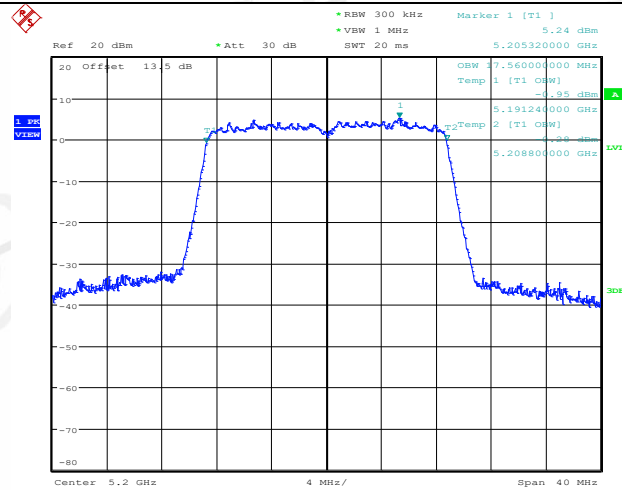
Date: 26.FEB.2022 12:56:45

11AC20MIMO_Ant1_5200



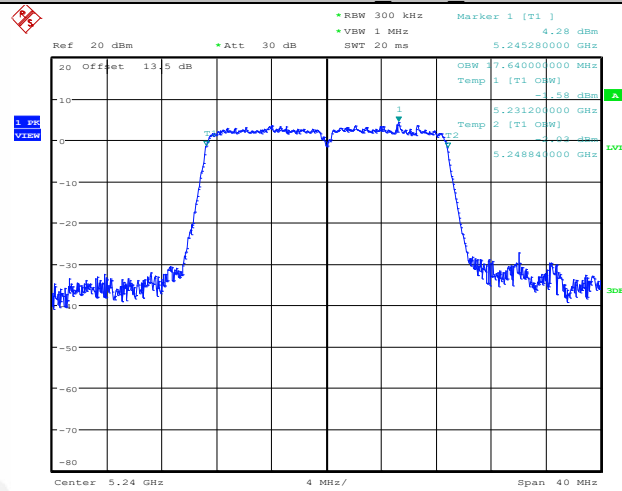
Date: 26.FEB.2022 12:58:00

11AC20MIMO_Ant2_5200



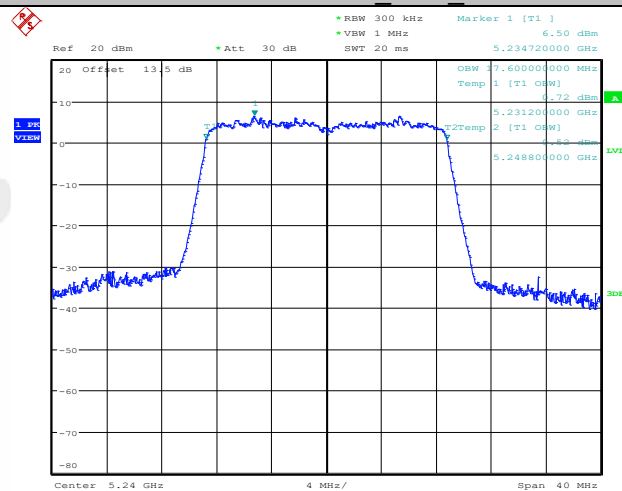
Date: 26.FEB.2022 12:59:51

11AC20MIMO_Ant1_5240



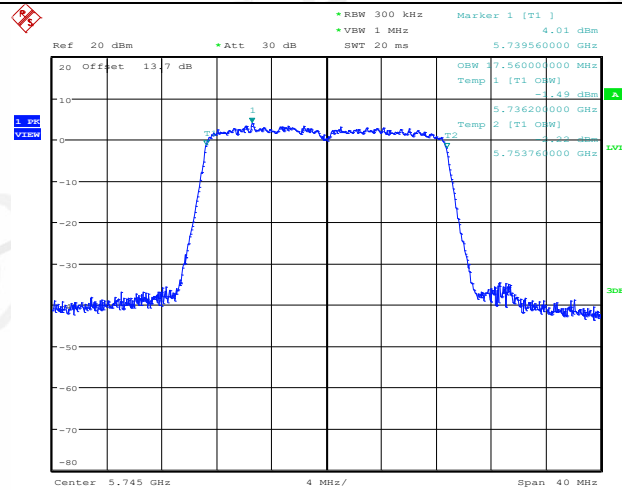
Date: 26.FEB.2022 13:00:57

11AC20MIMO_Ant2_5240



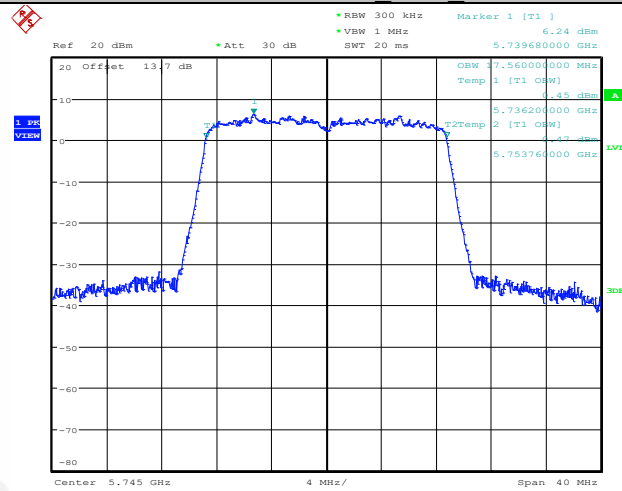
Date: 26.FEB.2022 14:13:15

11AC20MIMO_Ant1_5745



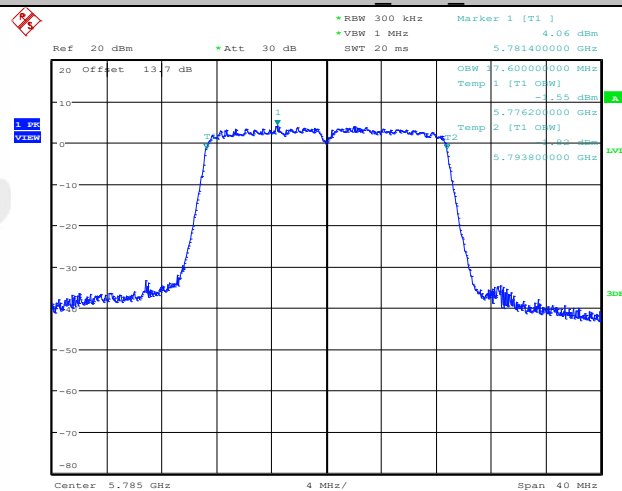
Date: 26.FEB.2022 13:03:41

11AC20MIMO_Ant2_5745



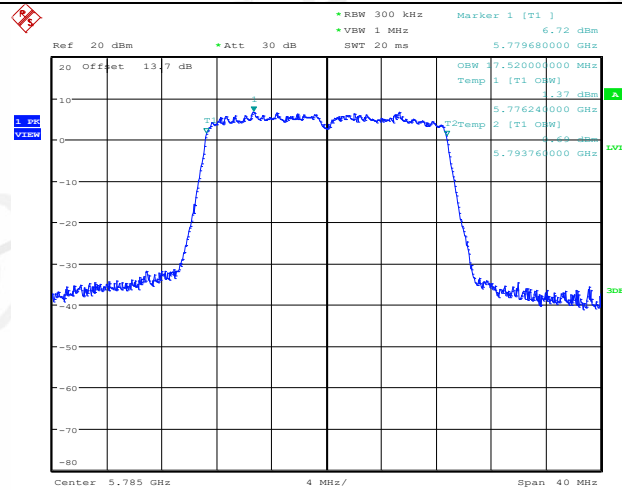
Date: 26.FEB.2022 13:05:40

11AC20MIMO_Ant1_5785



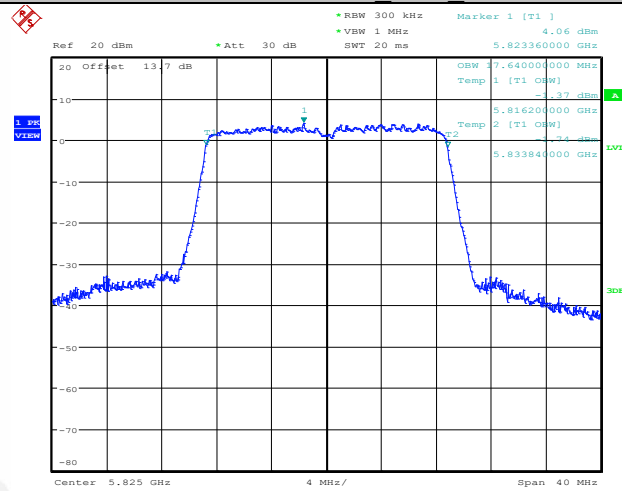
Date: 26.FEB.2022 13:10:03

11AC20MIMO_Ant2_5785



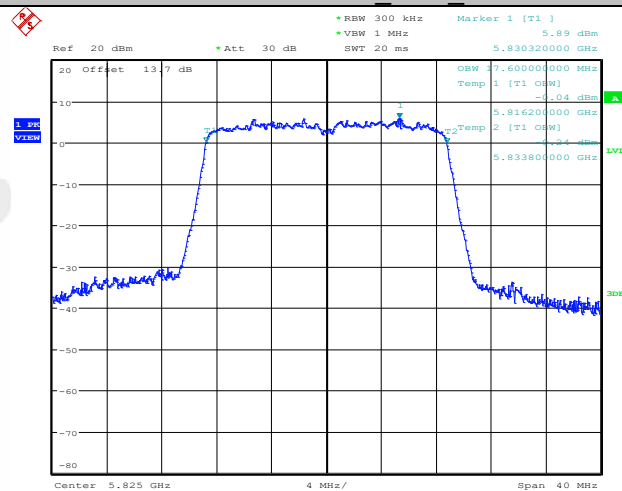
Date: 26.FEB.2022 13:11:11

11AC20MIMO_Ant1_5825



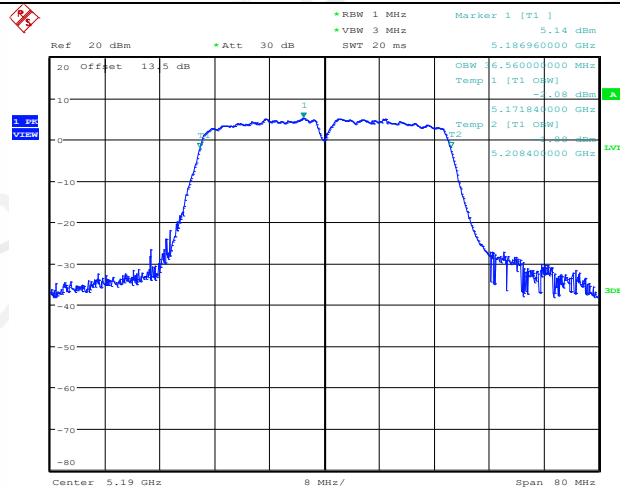
Date: 26.FEB.2022 13:12:36

11AC20MIMO_Ant2_5825



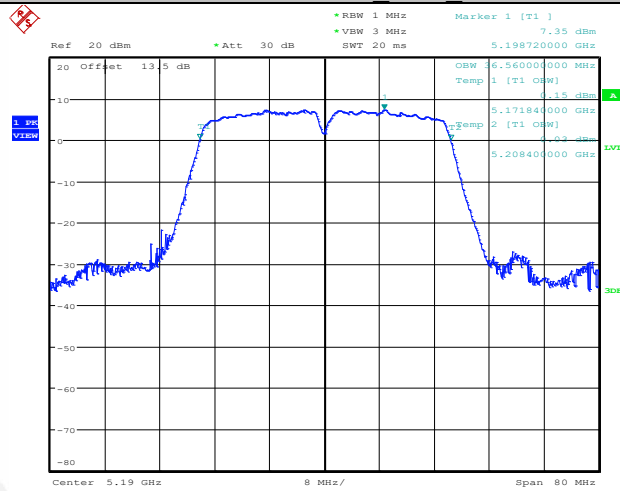
Date: 26.FEB.2022 13:15:02

11AC40MIMO_Ant1_5190



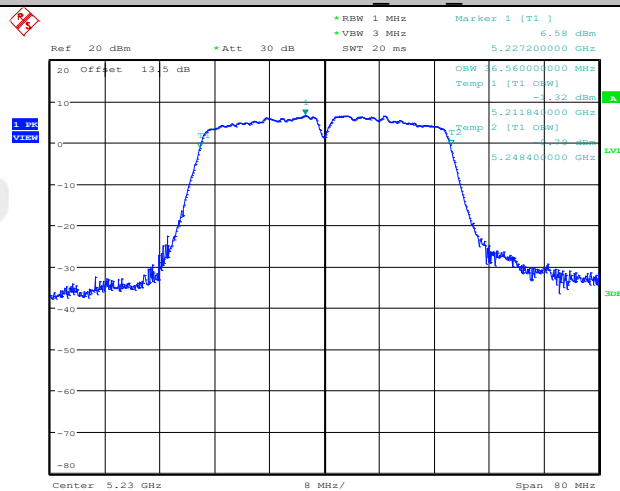
Date: 26.FEB.2022 13:17:52

11AC40MIMO_Ant2_5190



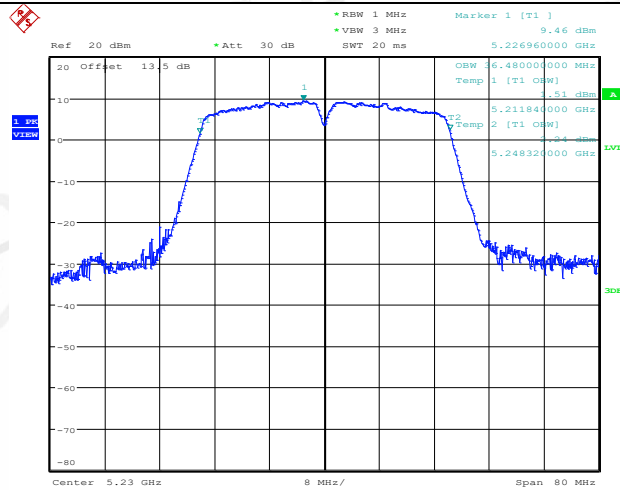
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11AC40MIMO_Ant1_5230



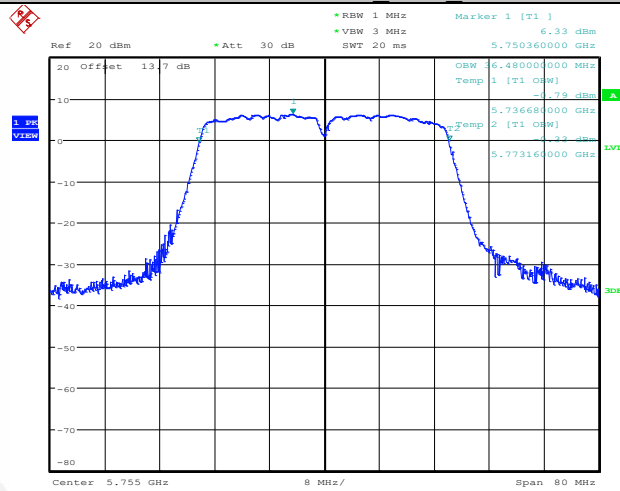
Date: 26.FEB.2022 13:20:25

11AC40MIMO_Ant2_5230



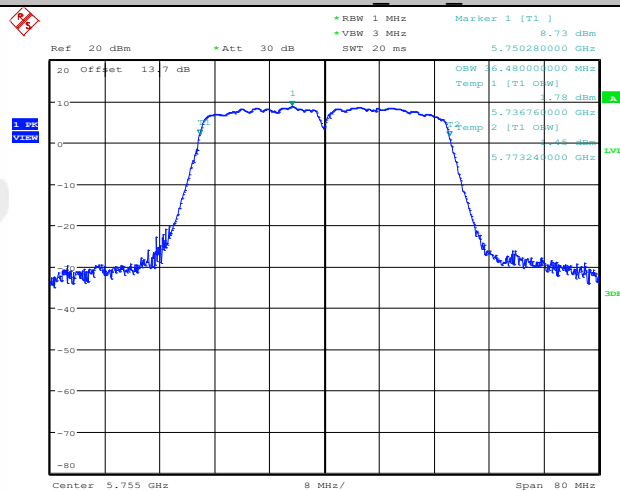
Date: 26.FEB.2022 13:21:30

11AC40MIMO_Ant1_5755



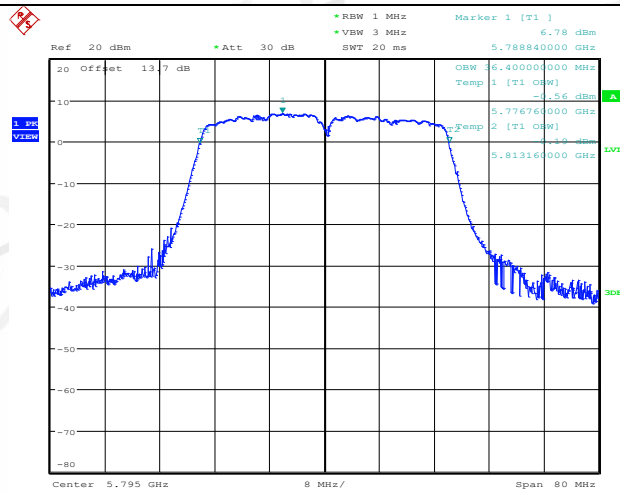
Date: 26.FEB.2022 13:23:09

11AC40MIMO_Ant2_5755



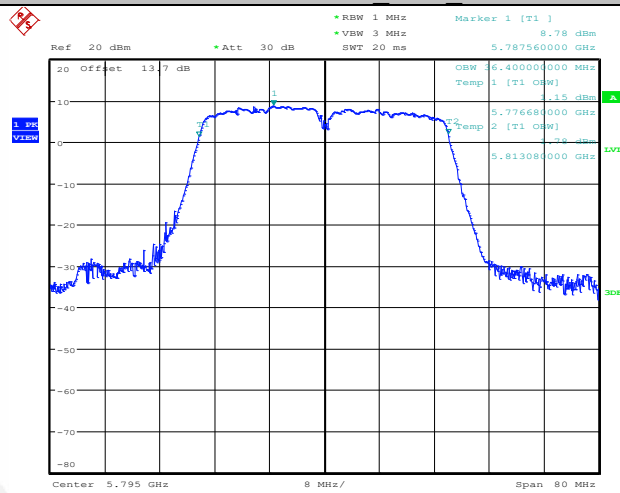
Date: 26.FEB.2022 13:25:36

11AC40MIMO_Ant1_5795



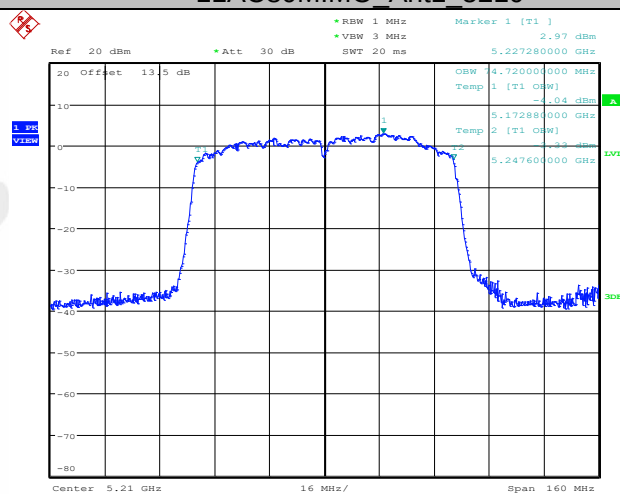
Date: 26.FEB.2022 13:27:24

11AC40MIMO_Ant2_5795



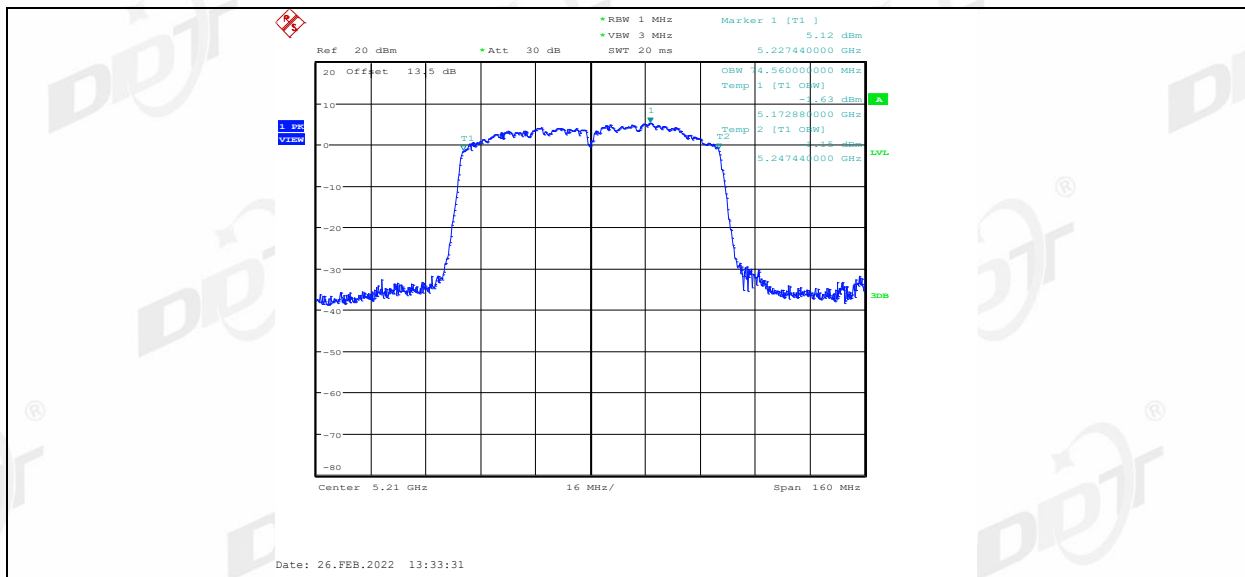
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11AC80MIMO Ant1 5210

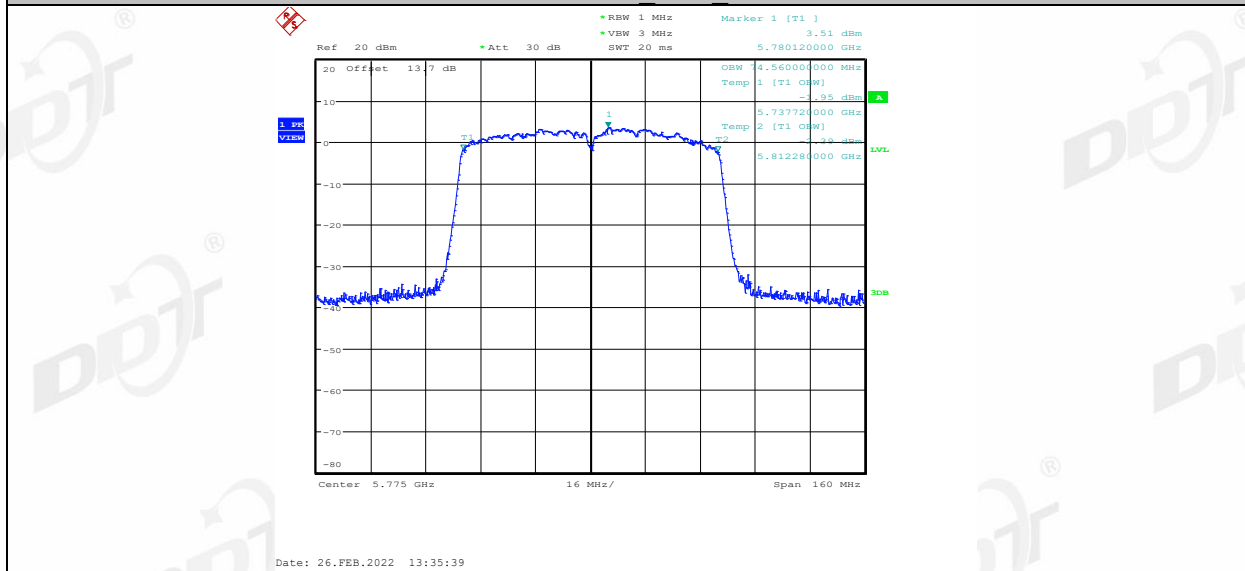


Date: 26.FEB.2022 13:32:35

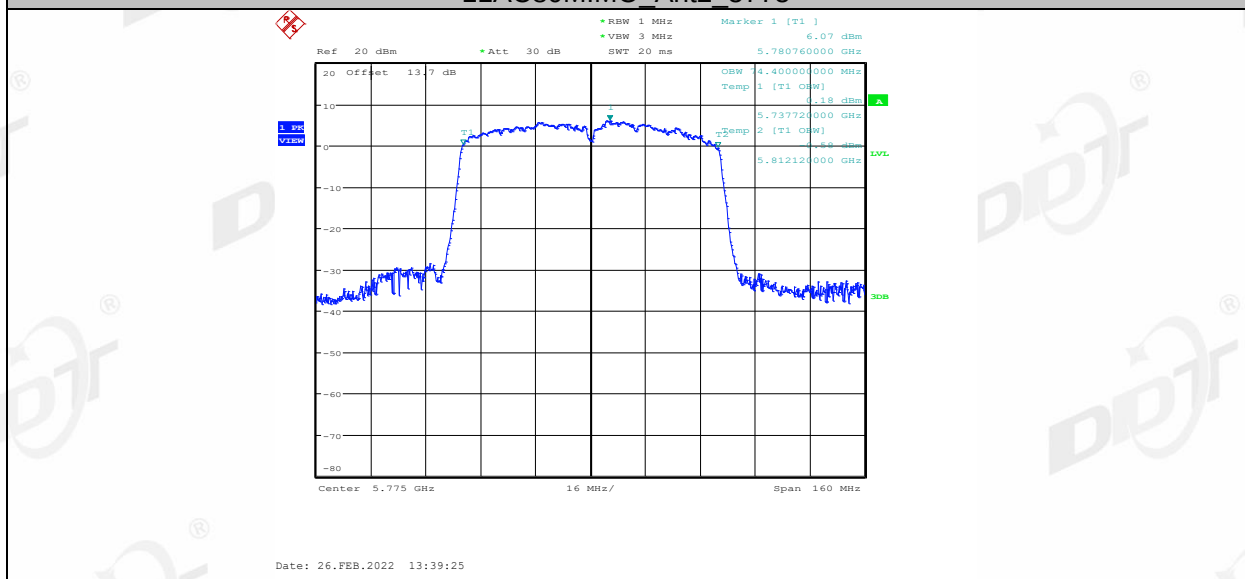
11AC80MIMO Ant2 5210



11AC80MIMO Ant1 5775

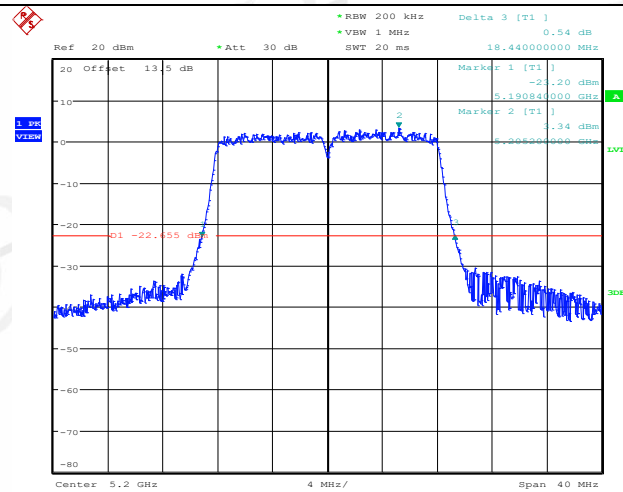


11AC80MIMO Ant2 5775



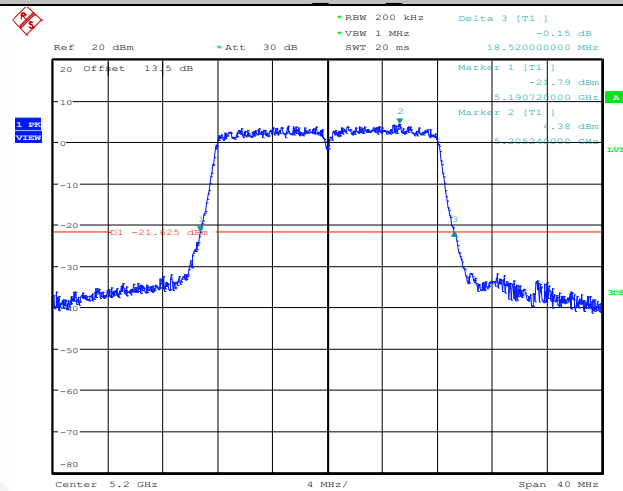
26db EBW:





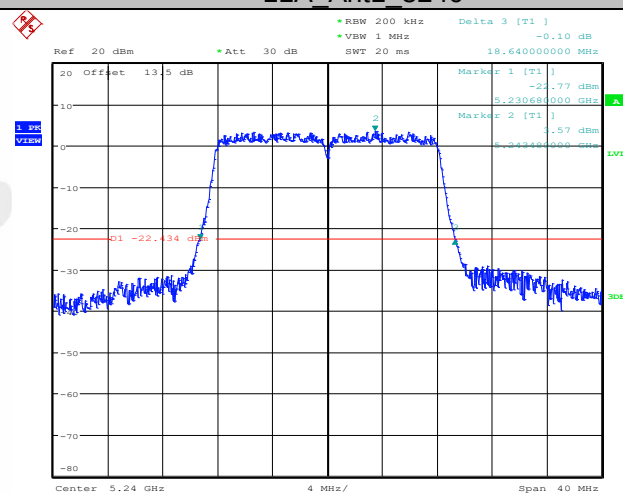
Date: 26.FEB.2022 11:25:38

11A Ant2 5200



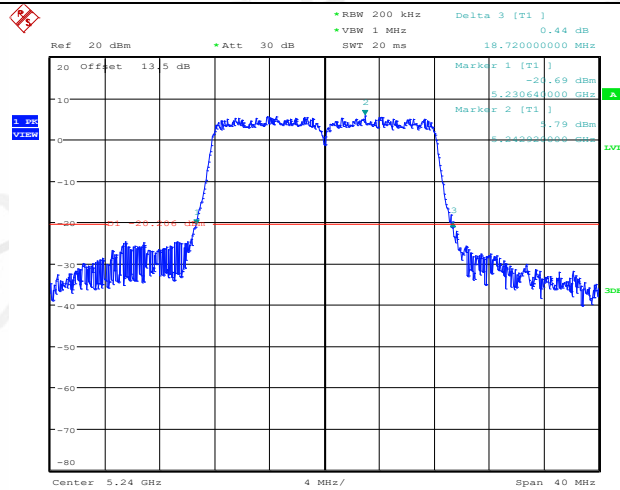
Date: 26.FEB.2022 11:34:49

11A Ant1 5240



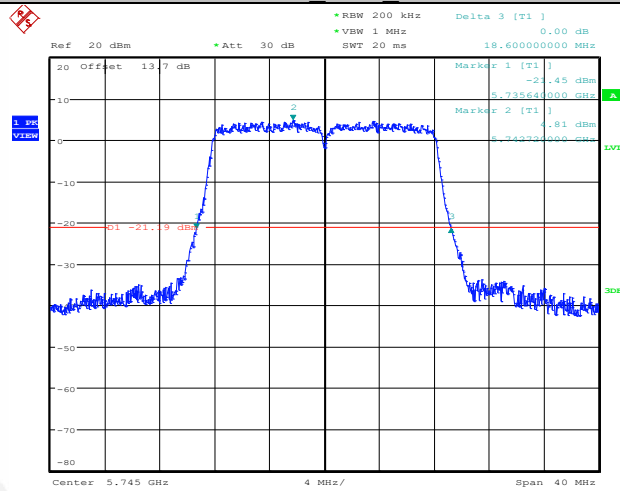
Date: 26.FEB.2022 11:27:04

11A Ant2 5240



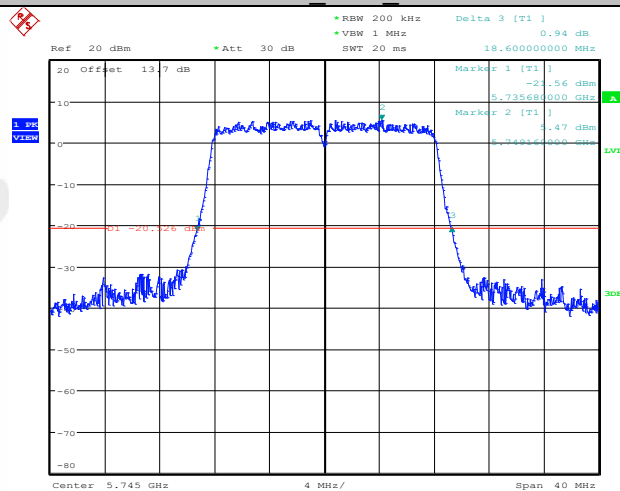
Date: 26.FEB.2022 11:37:26

11A_Ant1_5745



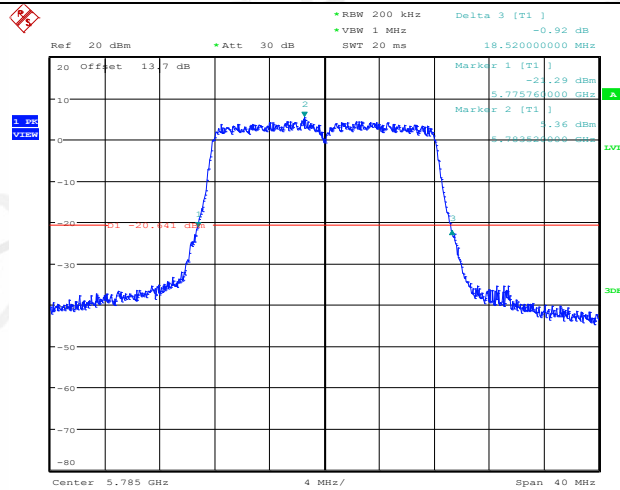
Date: 24.FEB.2022 13:35:04

11A_Ant2_5745



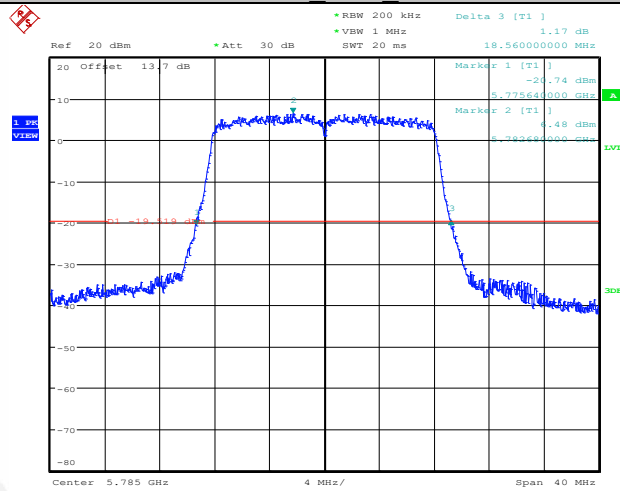
Date: 26.FEB.2022 11:41:33

11A_Ant1_5785



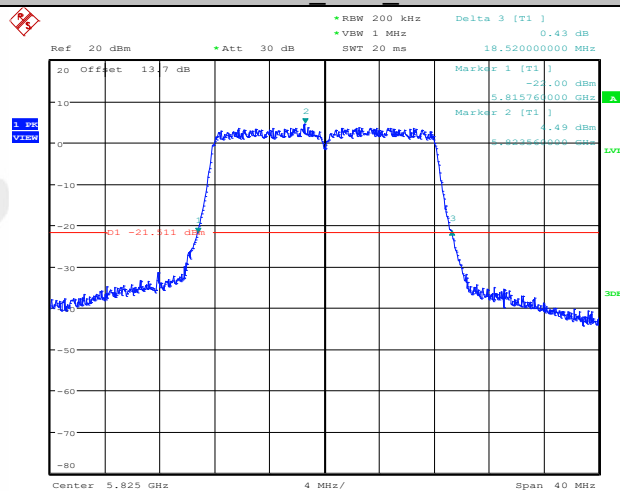
Date: 24.FEB.2022 13:41:35

11A Ant2 5785



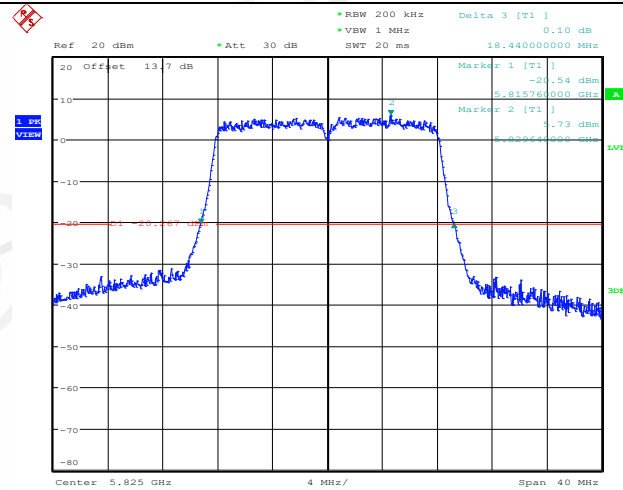
Date: 26.FEB.2022 11:44:20

11A Ant1 5825



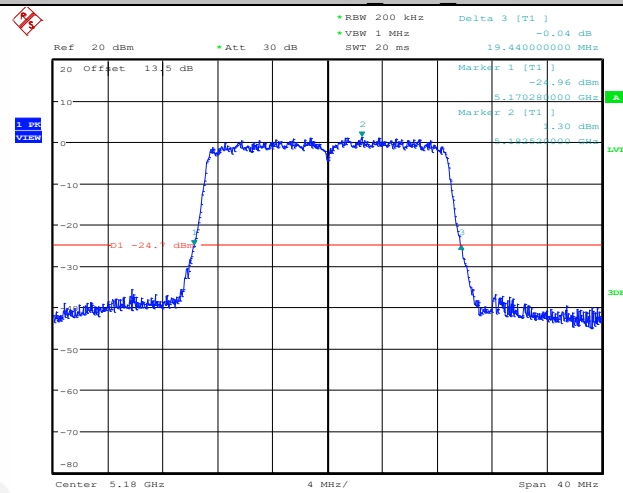
Date: 24.FEB.2022 13:43:16

11A Ant2 5825



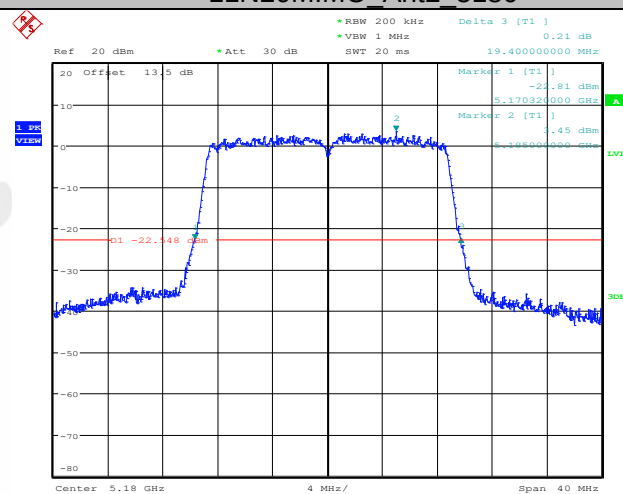
Date: 26.FEB.2022 11:46:01

11N20MIMO Ant1 5180



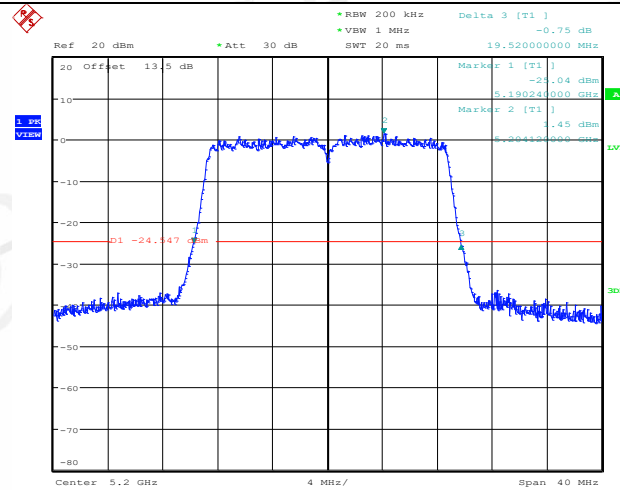
Date: 26.FEB.2022 11:53:04

11N20MIMO Ant2 5180



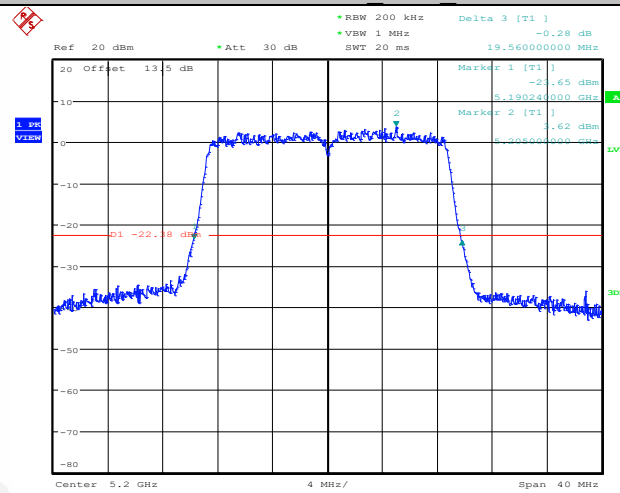
Date: 26.FEB.2022 11:54:24

11N20MIMO Ant1 5200



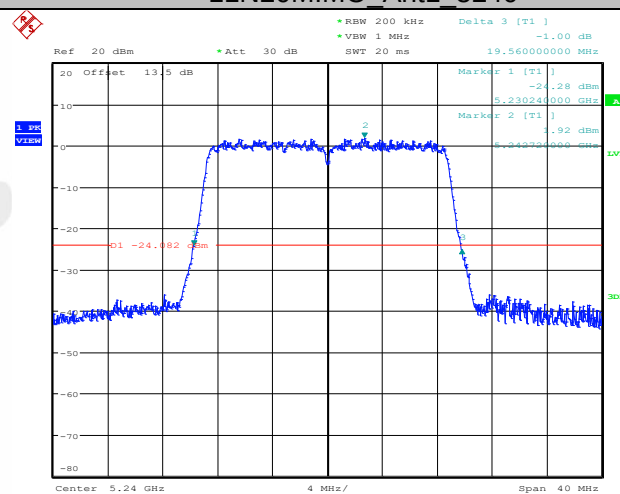
Date: 26.FEB.2022 11:57:20

11N20MIMO_Ant2_5200



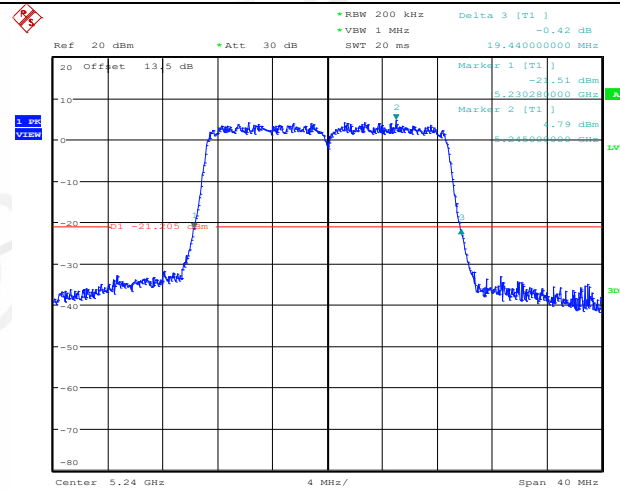
Date: 26.FEB.2022 11:59:24

11N20MIMO_Ant1_5240



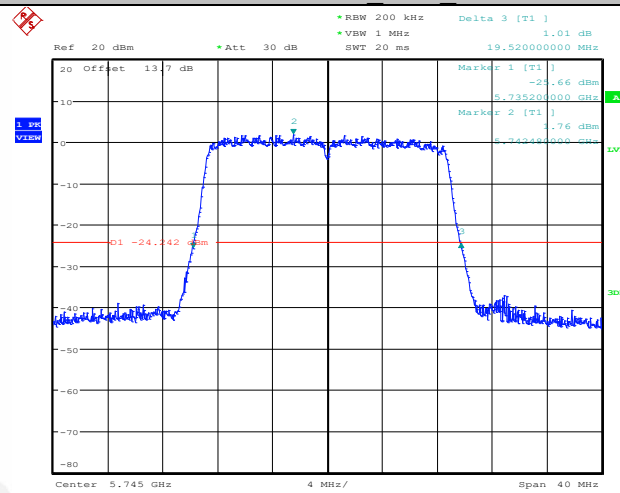
Date: 26.FEB.2022 12:00:28

11N20MIMO_Ant2_5240



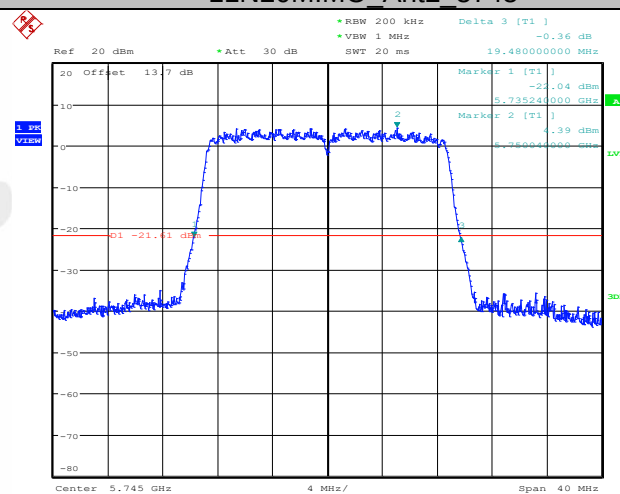
Date: 26.FEB.2022 12:01:31

11N20MIMO_Ant1_5745



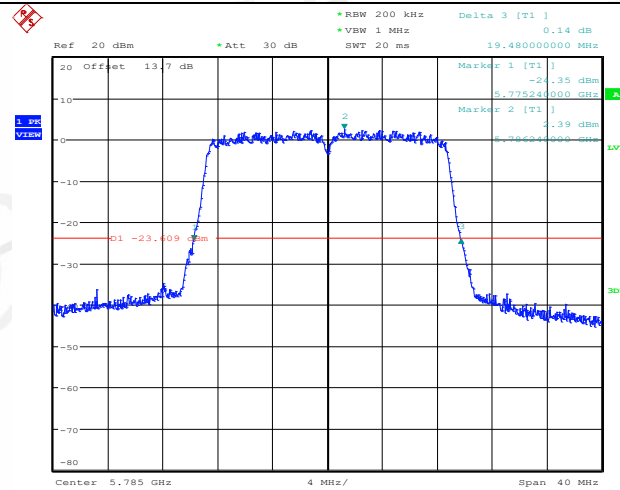
Date: 26.FEB.2022 12:03:26

11N20MIMO_Ant2_5745



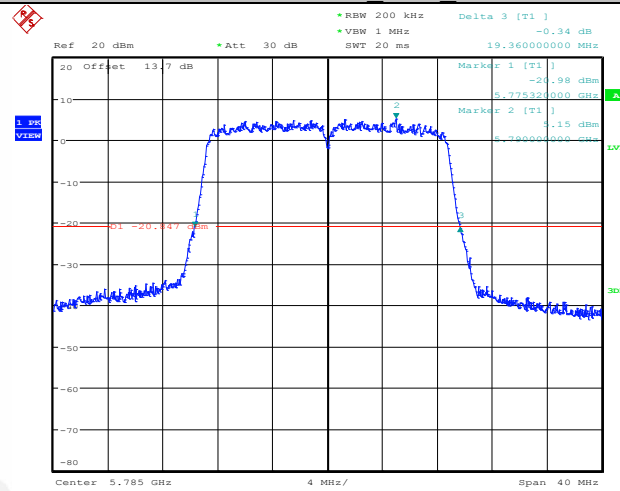
Date: 26.FEB.2022 12:06:12

11N20MIMO_Ant1_5785



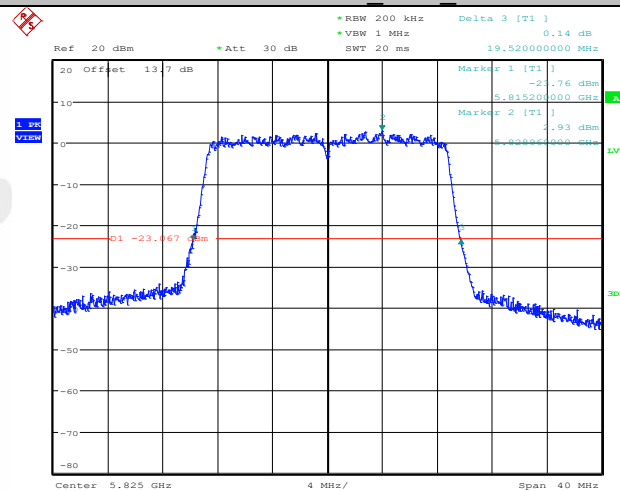
Date: 26.FEB.2022 12:08:30

11N20MIMO_Ant2_5785



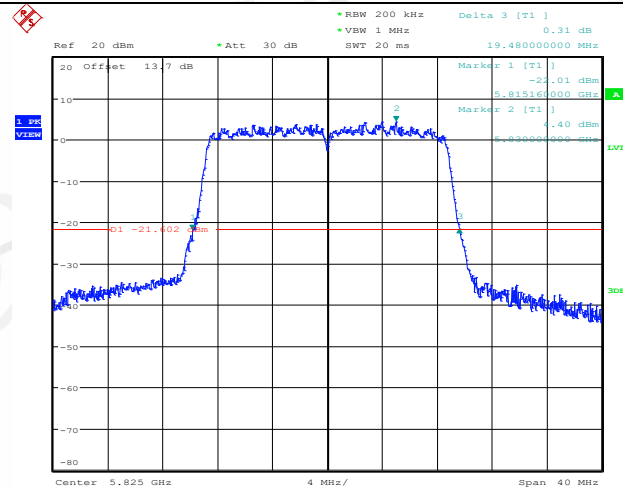
Date: 26.FEB.2022 12:09:39

11N20MIMO_Ant1_5825



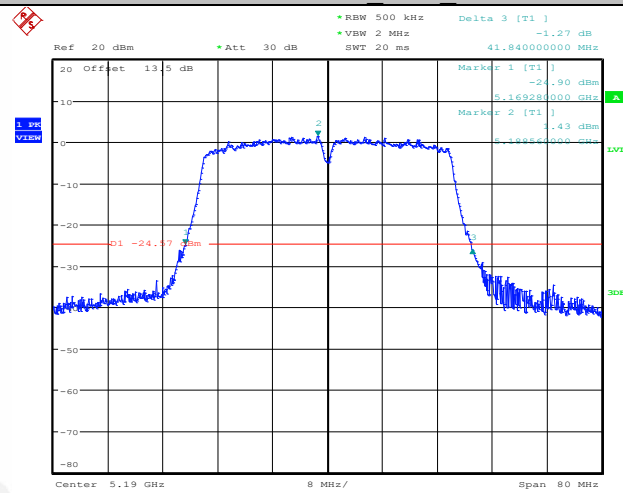
Date: 26.FEB.2022 12:11:59

11N20MIMO_Ant2_5825



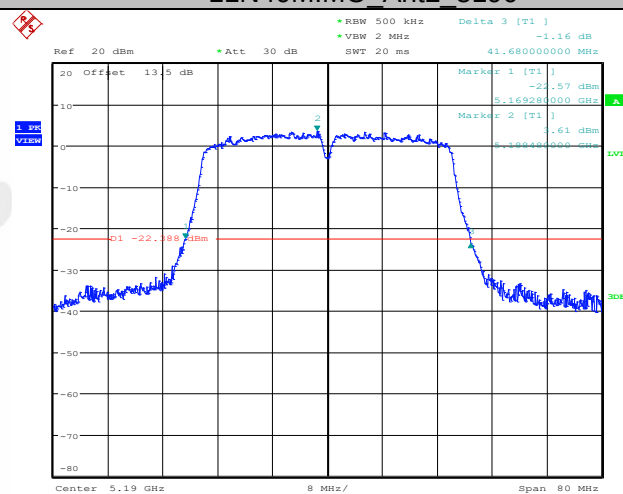
Date: 26.FEB.2022 12:35:24

11N40MIMO Ant1 5190



Date: 26.FEB.2022 12:40:42

11N40MIMO Ant2 5190



Date: 26.FEB.2022 12:41:51

11N40MIMO Ant1 5230



Ref 20 dBm *Att 30 dB *RBW 500 kHz Delta 3 [T1] -0.69 dB

*VBW 2 MHz SWF 20 ms 51.4400000000 MHz

20 Offset 13.5 dB Marker 1 [T1] -2.45 dBm 5.20920000 GHz

10 Marker 2 [T1] -4.79 dBm 5.23440000 GHz

0 -21.205 dBm

-10 -20 -30 -40 -50 -60 -70 -80

Center 5.23 GHz 8 MHz/ Span 80 MHz

Date: 26.FEB.2022 12:44:08

*RBW 500 kHz
 *VBW 2 MHz
 *Att 30 dB
 SWF 20 ms
 Delta 3 [T1]
 -0.55 dB
 41.6000000000 MHz

Ref 20 dBm
 20 Offset 13.7 dB

Marker 1 [T1]
 -23.55 dBm
 5.734040000 GHz

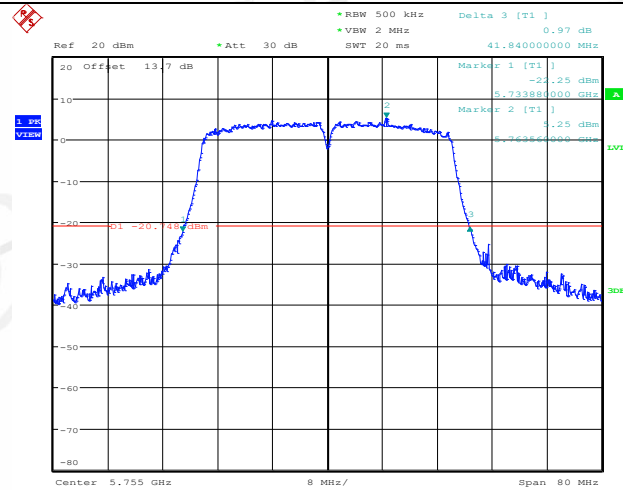
Marker 2 [T1]
 -23.50 dBm
 5.733640000 GHz

D1 -23.502 dBm

Center 5.755 GHz
 8 MHz/
 Span 80 MHz

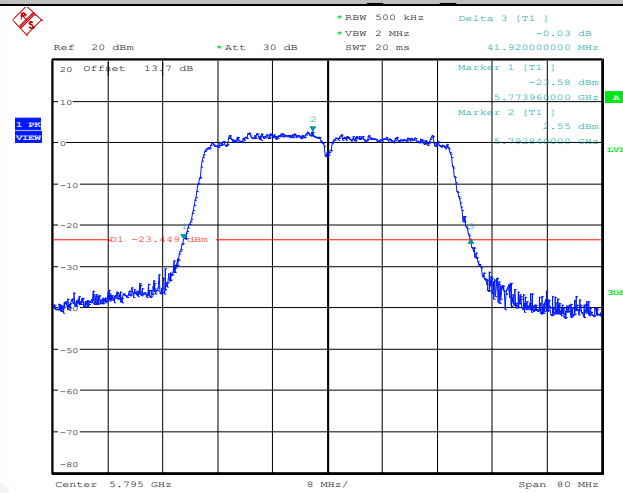
Date: 26.FEB.2022 12:45:18

11N40MIMO Ant2 5755



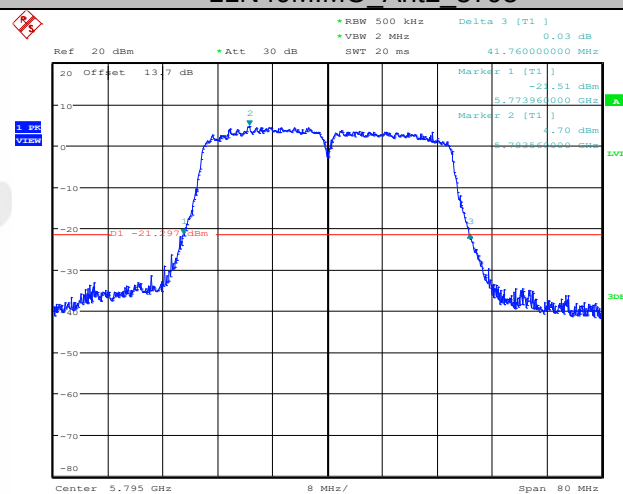
Date: 26.FEB.2022 12:47:37

11N40MIMO_Ant1_5795



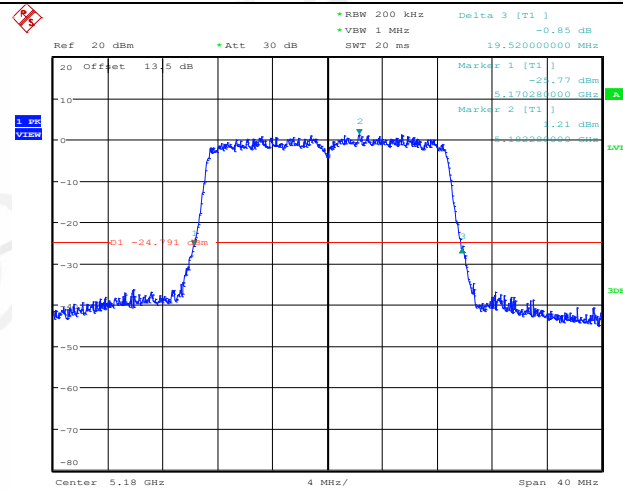
Date: 26.FEB.2022 12:50:16

11N40MIMO_Ant2_5795



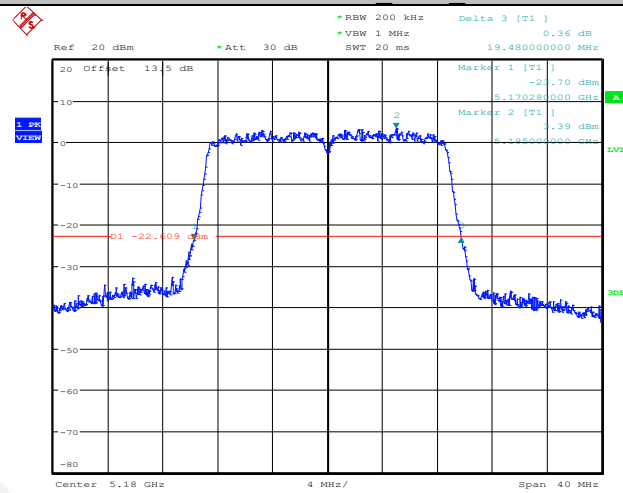
Date: 26.FEB.2022 12:51:53

11AC20MIMO_Ant1_5180



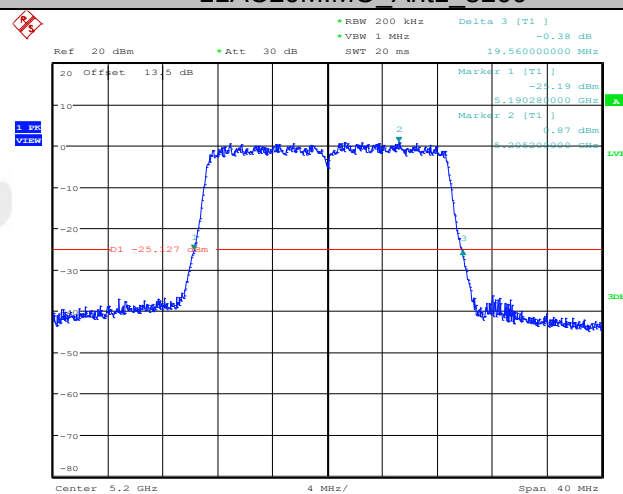
Date: 26.FEB.2022 12:55:37

11AC20MIMO_Ant2_5180



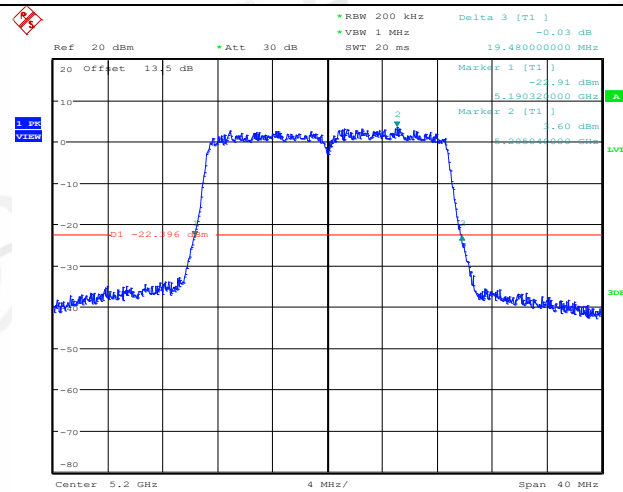
Date: 26.FEB.2022 12:56:35

11AC20MIMO_Ant1_5200



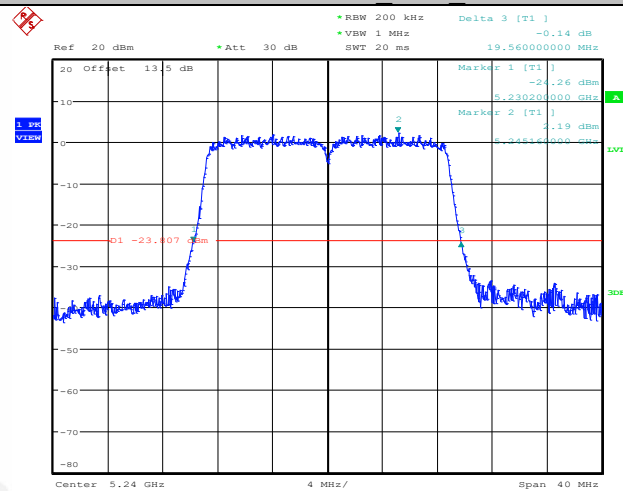
Date: 26.FEB.2022 12:57:49

11AC20MIMO_Ant2_5200



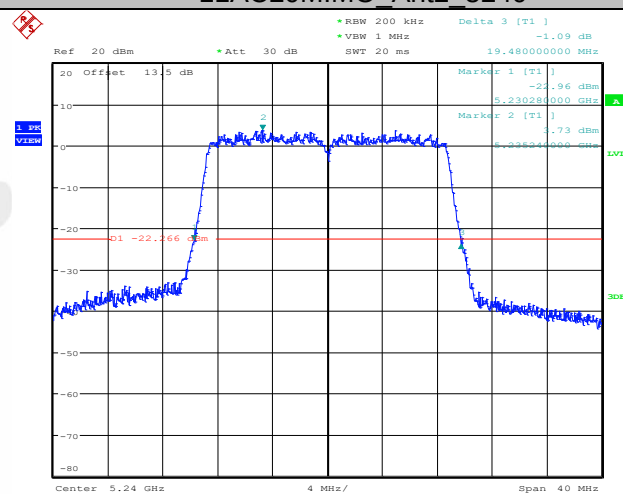
Date: 26.FEB.2022 12:59:41

11AC20MIMO Ant1 5240



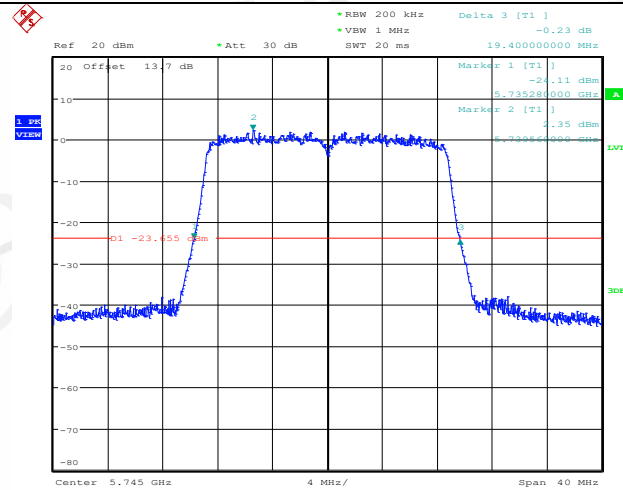
Date: 26.FEB.2022 13:00:46

11AC20MIMO Ant2 5240



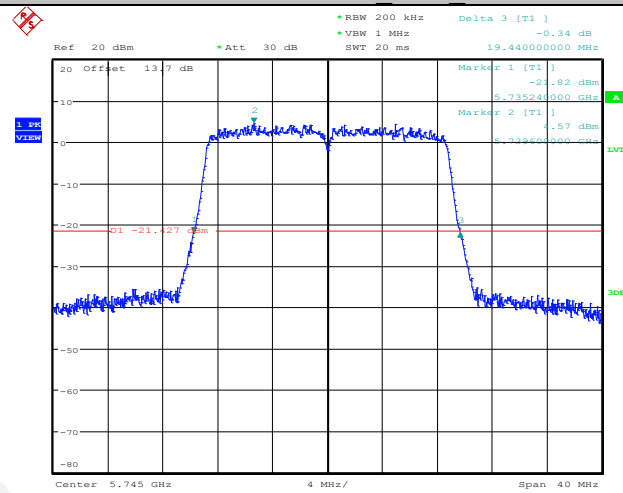
Date: 26.FEB.2022 14:13:04

11AC20MIMO Ant1 5745



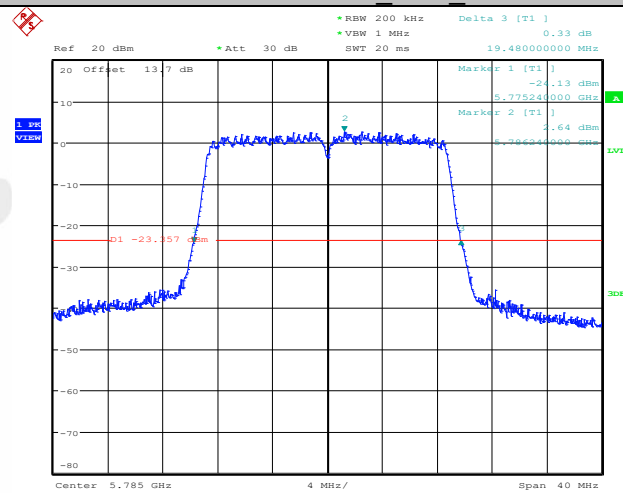
Date: 26.FEB.2022 13:03:22

11AC20MIMO_Ant2_5745



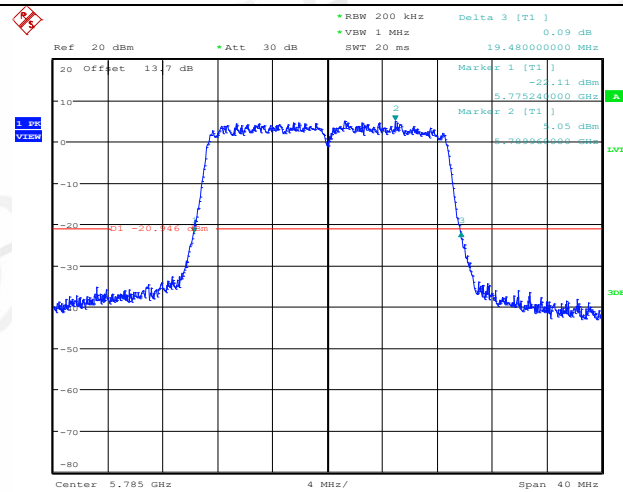
Date: 26.FEB.2022 13:05:21

11AC20MIMO_Ant1_5785



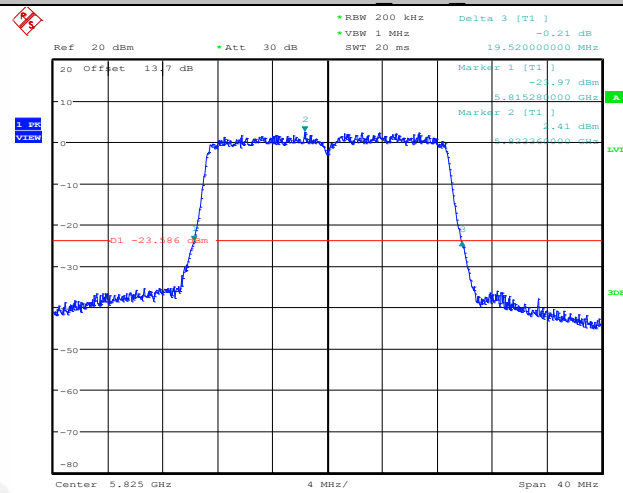
Date: 26.FEB.2022 13:09:44

11AC20MIMO_Ant2_5785



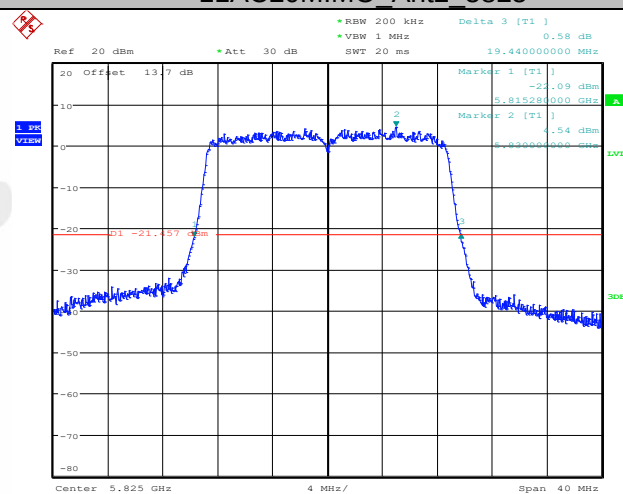
Date: 26.FEB.2022 13:10:52

11AC20MIMO_Ant1_5825



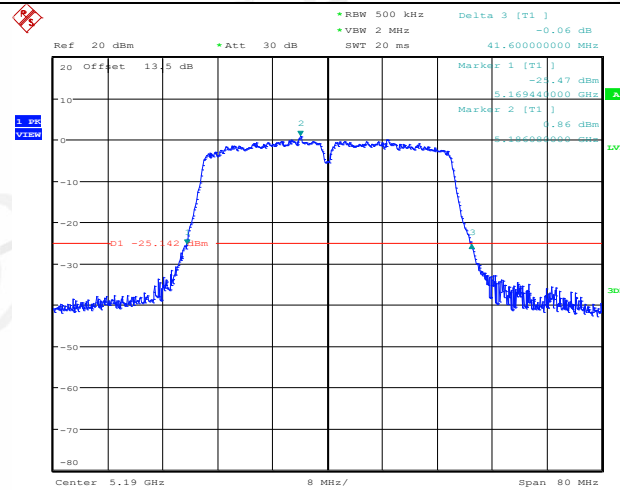
Date: 26.FEB.2022 13:12:16

11AC20MIMO Ant2 5825



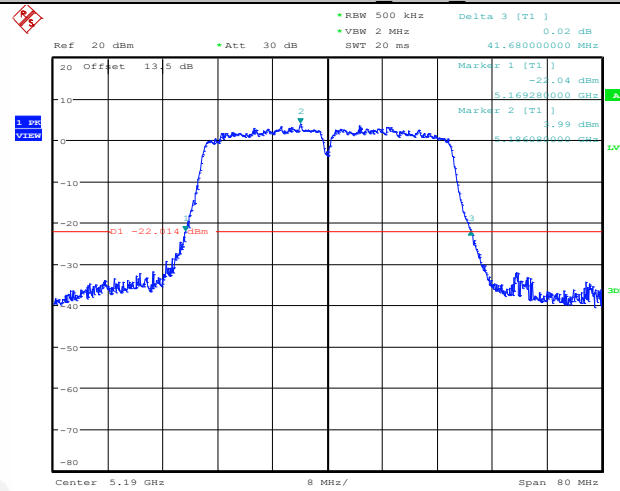
Date: 26.FEB.2022 13:14:43

11AC40MIMO Ant1 5190



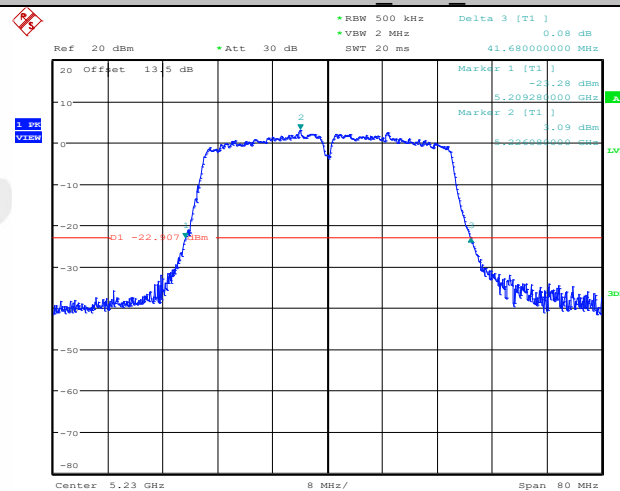
Date: 26.FEB.2022 13:17:42

11AC40MIMO_Ant2_5190



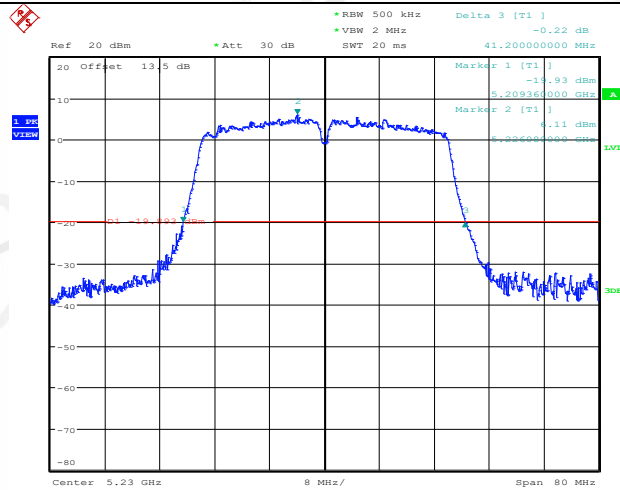
Date: 26.FEB.2022 13:18:47

11AC40MIMO_Ant1_5230



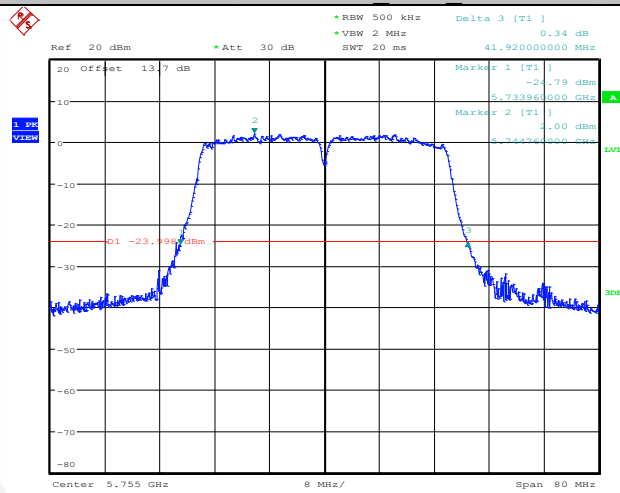
Date: 26.FEB.2022 13:20:15

11AC40MIMO_Ant2_5230



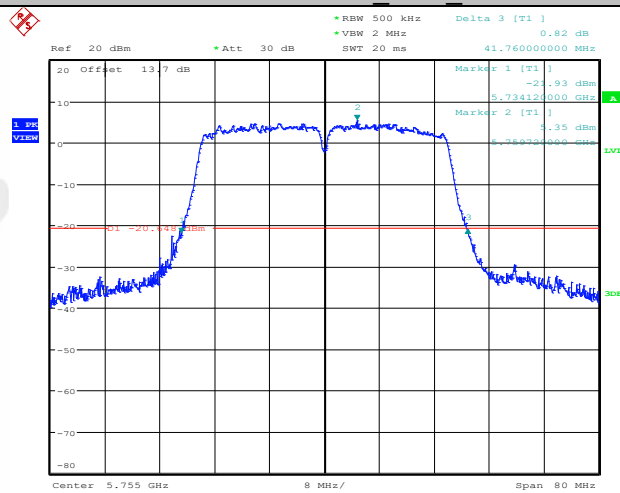
Date: 26.FEB.2022 13:21:19

11AC40MIMO_Ant1_5755



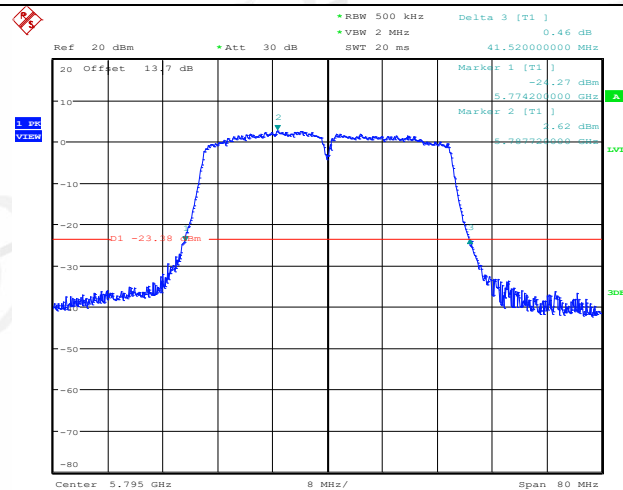
Date: 26.FEB.2022 13:22:50

11AC40MIMO_Ant2_5755



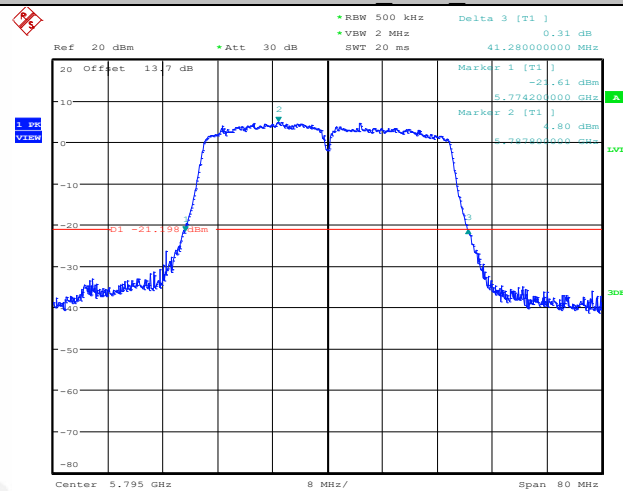
Date: 26.FEB.2022 13:25:17

11AC40MIMO_Ant1_5795



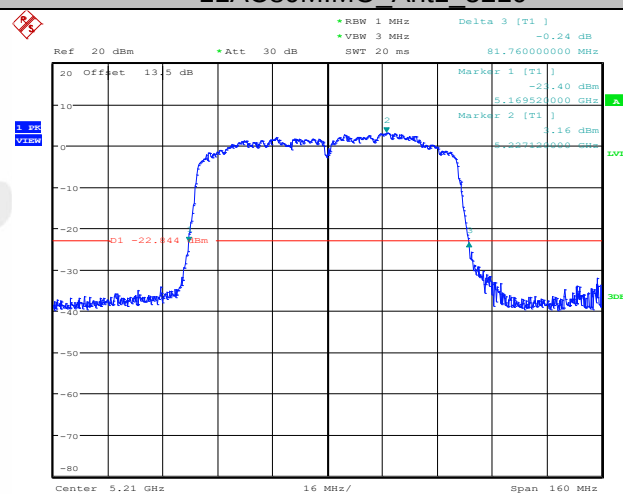
Date: 26.FEB.2022 13:27:05

11AC40MIMO Ant2 5795



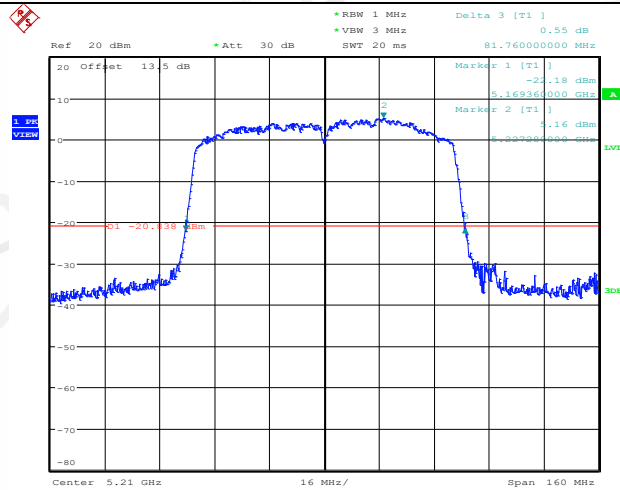
Date: 26.FEB.2022 13:28:59

11AC80MIMO Ant1 5210



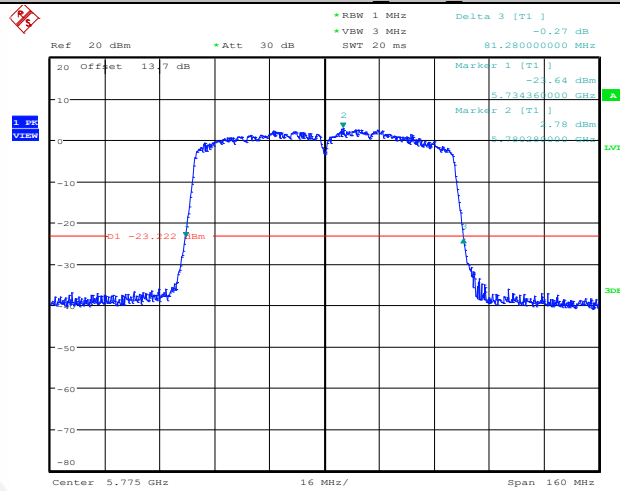
Date: 26.FEB.2022 13:32:25

11AC80MIMO Ant2 5210



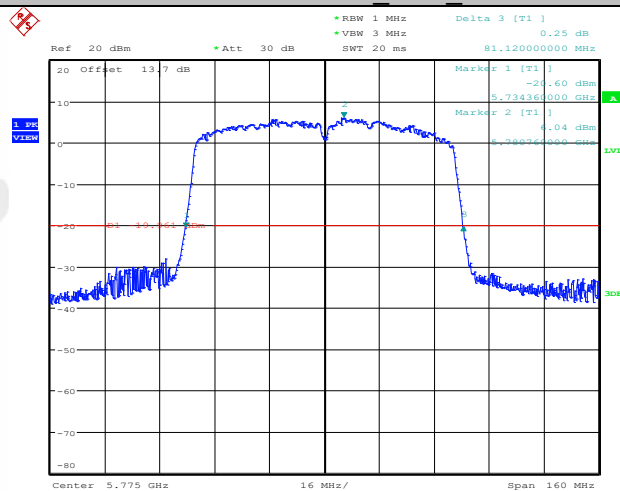
Date: 26.FEB.2022 13:33:21

11AC80MIMO Ant1 5775



Date: 26.FEB.2022 13:35:19

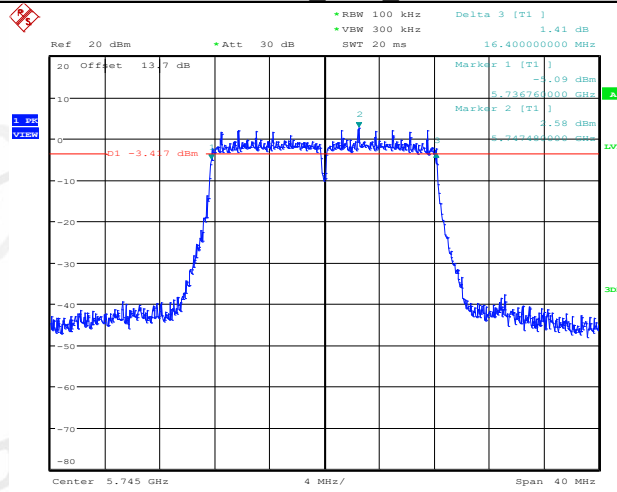
11AC80MIMO Ant2 5775



Date: 26.FEB.2022 13:39:06

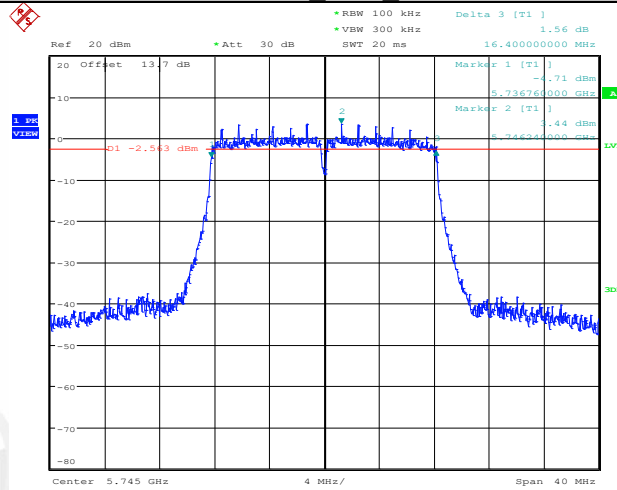
6db EBW:

11A_Ant1_5745



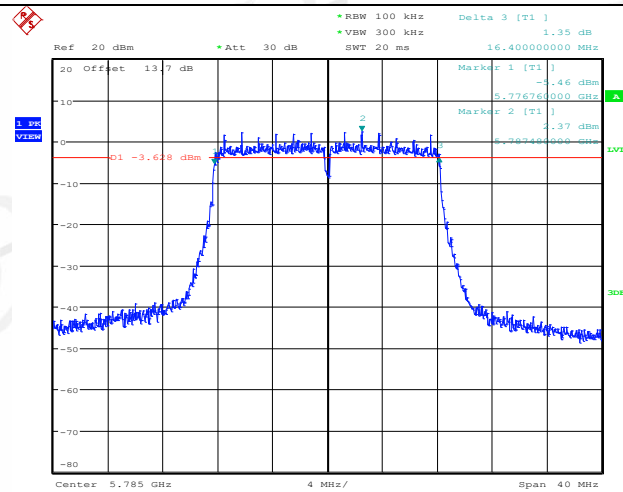
Date: 24.FEB.2022 13:35:13

11A_Ant2_5745



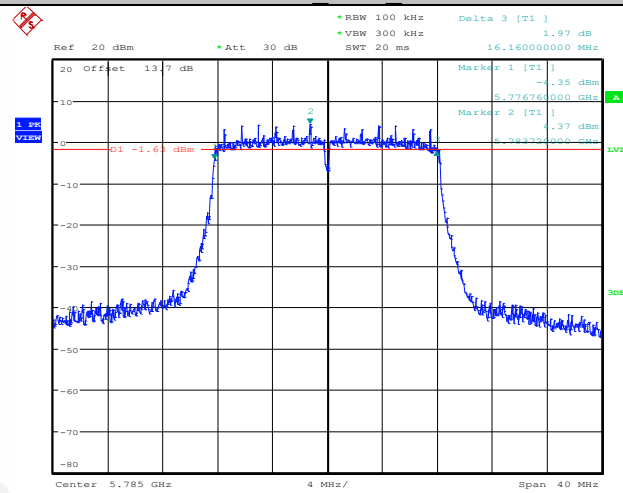
Date: 26.FEB.2022 11:41:42

11A_Ant1_5785



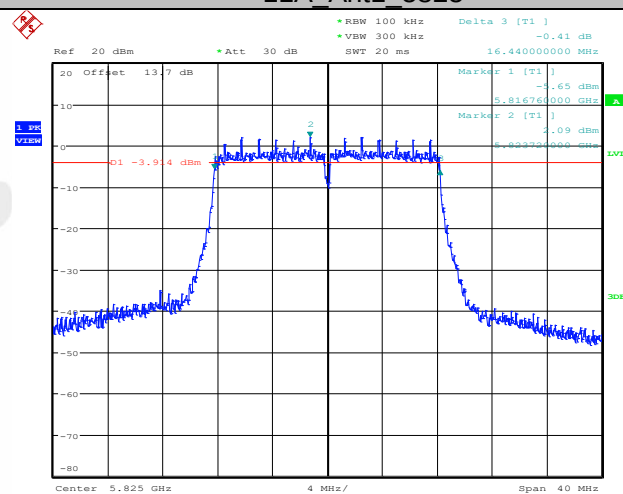
Date: 24.FEB.2022 13:41:43

11A Ant2 5785



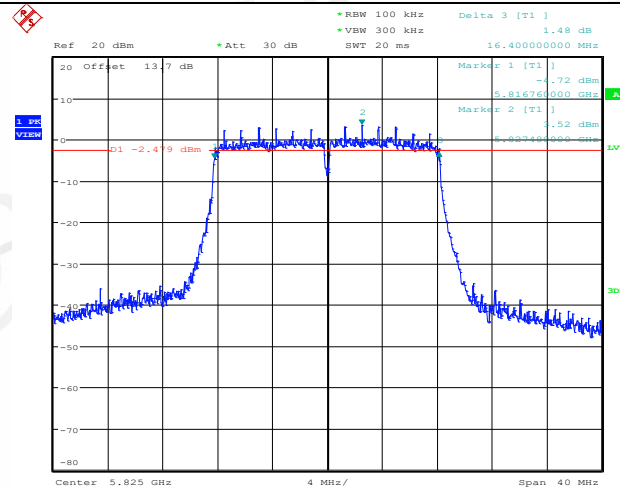
Date: 26.FEB.2022 11:44:29

11A Ant1 5825

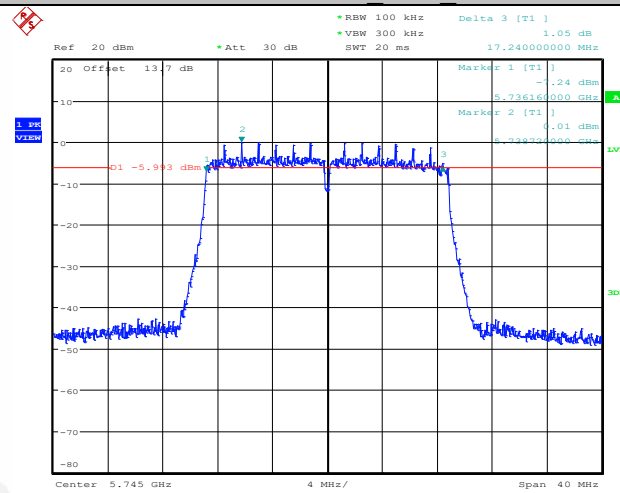


Date: 24.FEB.2022 13:43:25

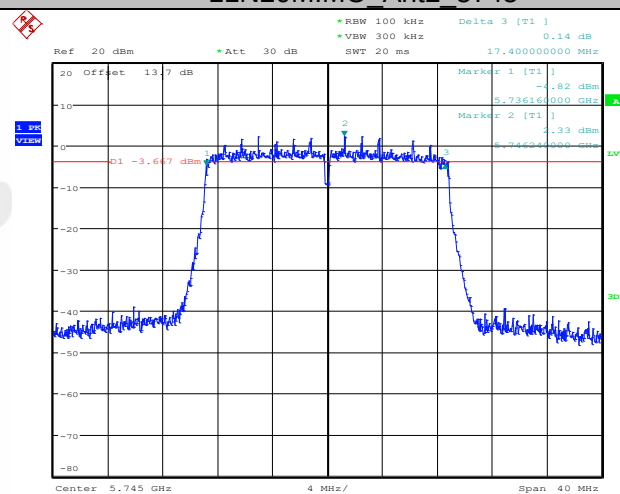
11A Ant2 5825



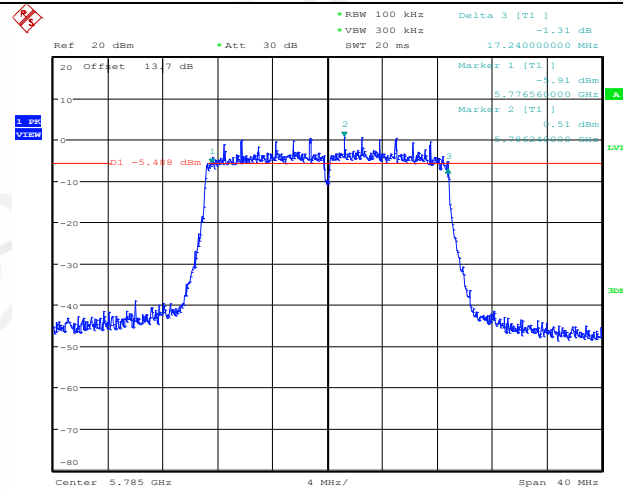
11N20MIMO_Ant1_5745



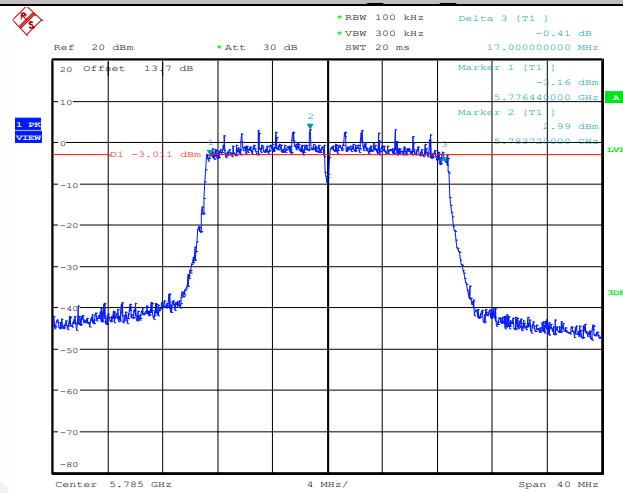
11N20MIMO_Ant2_5745



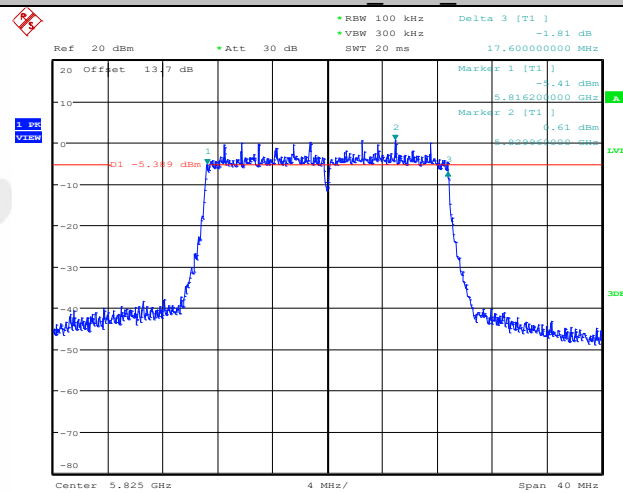
11N20MIMO_Ant1_5785



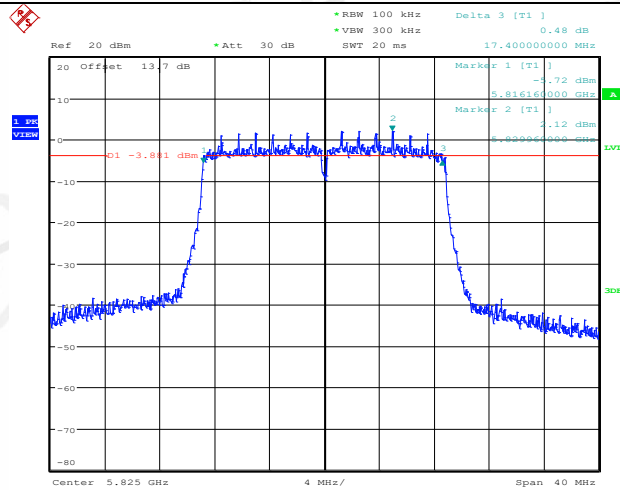
11N20MIMO Ant2 5785



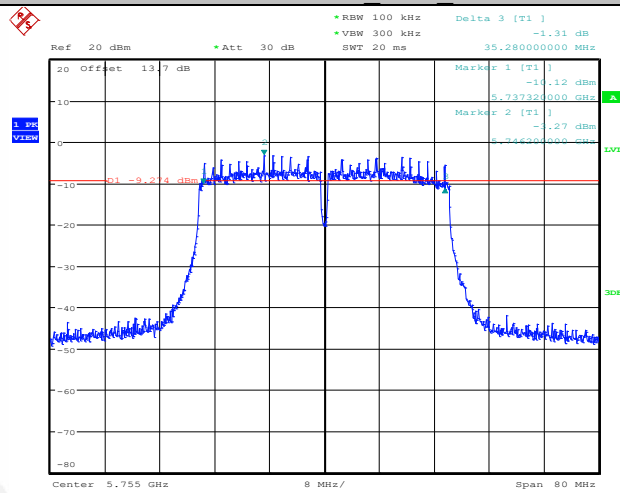
11N20MIMO Ant1 5825



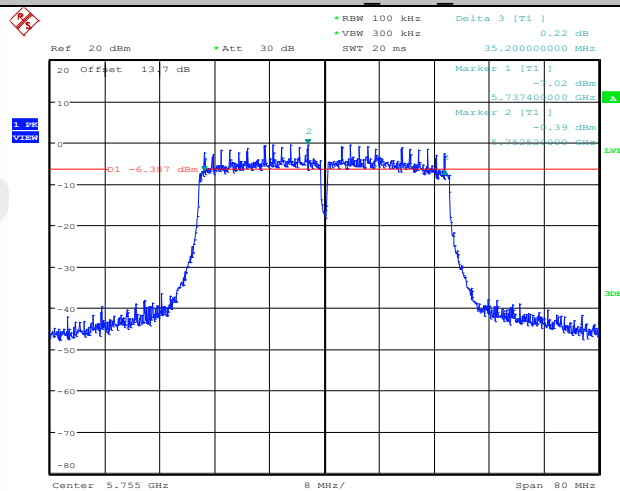
11N20MIMO Ant2 5825



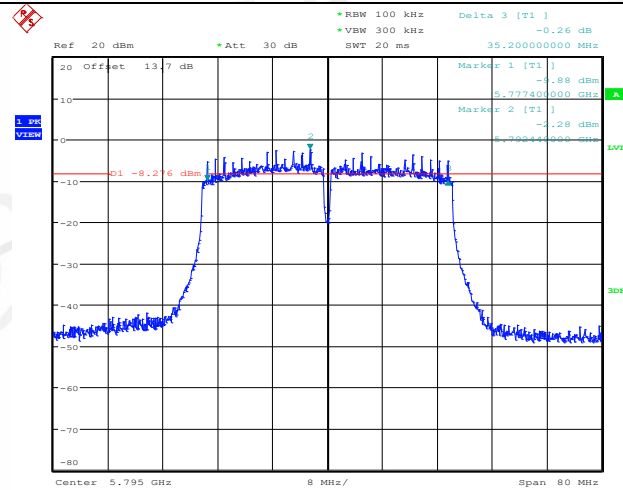
11N40MIMO_Ant1_5755



11N40MIMO_Ant2_5755

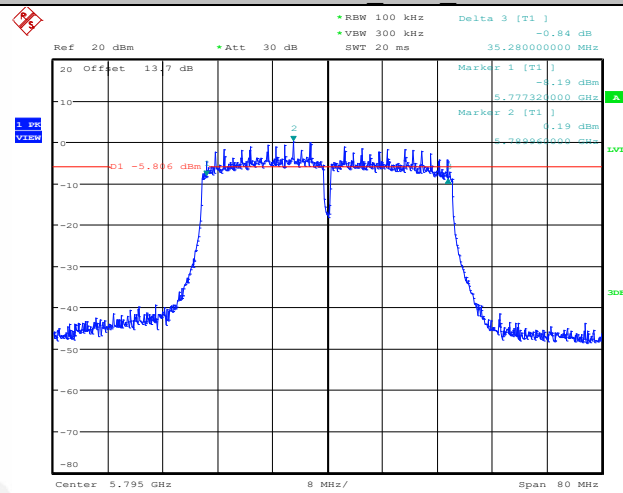


11N40MIMO_Ant1_5795



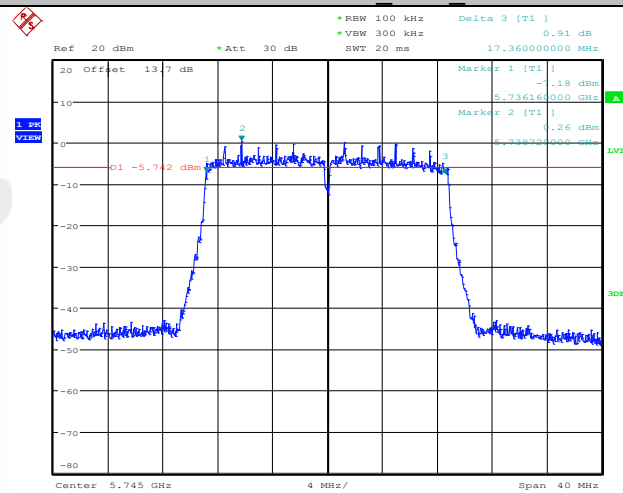
Date: 26.FEB.2022 12:50:25

11N40MIMO_Ant2_5795



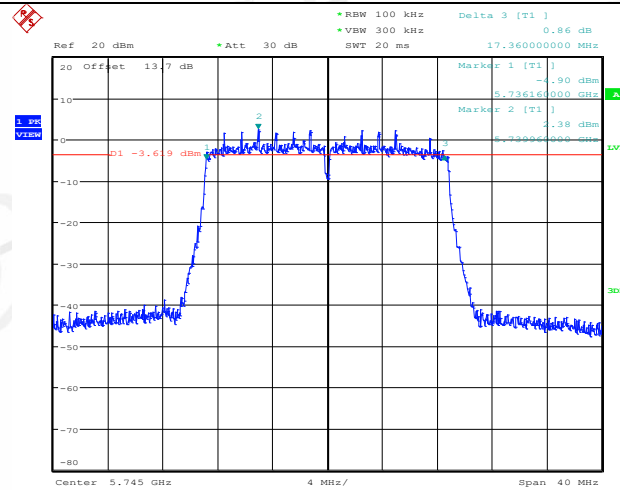
Date: 26.FEB.2022 12:52:02

11AC20MIMO_Ant1_5745

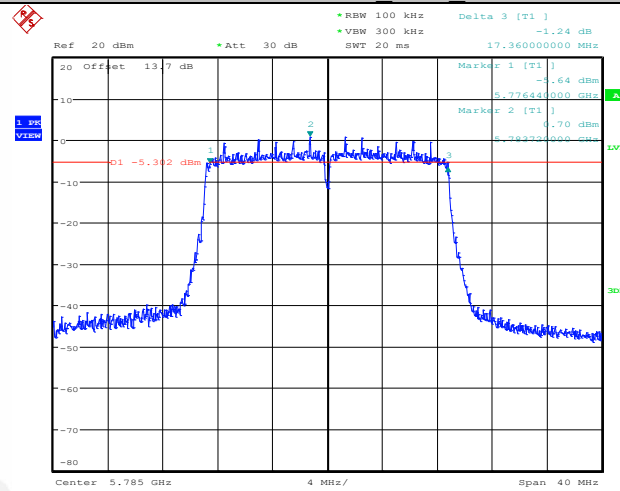


Date: 26.FEB.2022 13:03:30

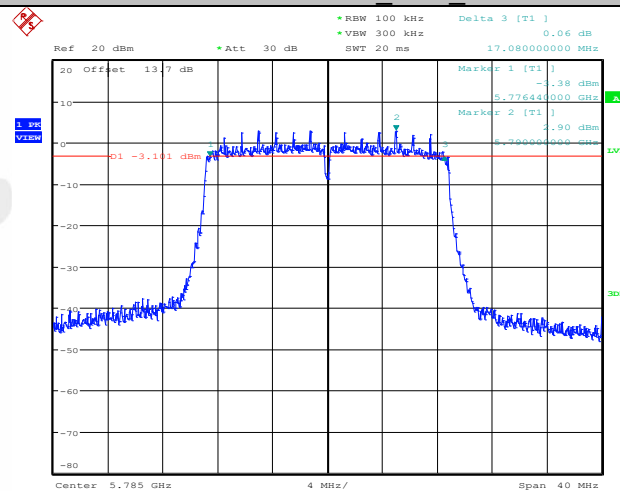
11AC20MIMO_Ant2_5745



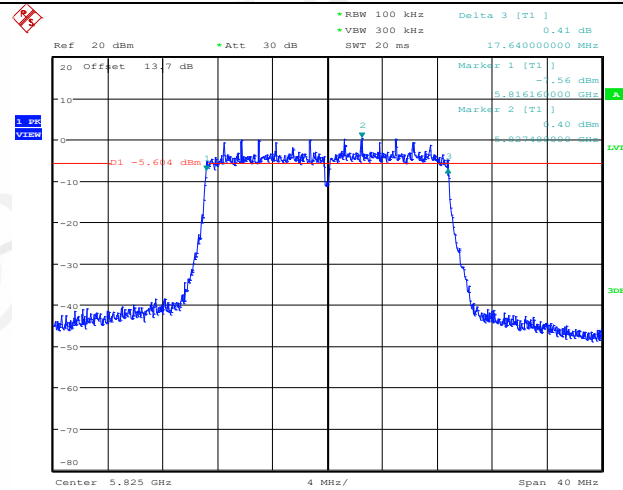
11AC20MIMO_Ant1_5785



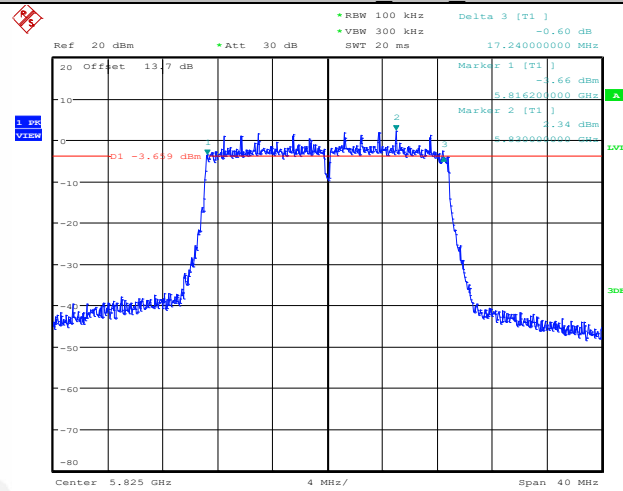
11AC20MIMO_Ant2_5785



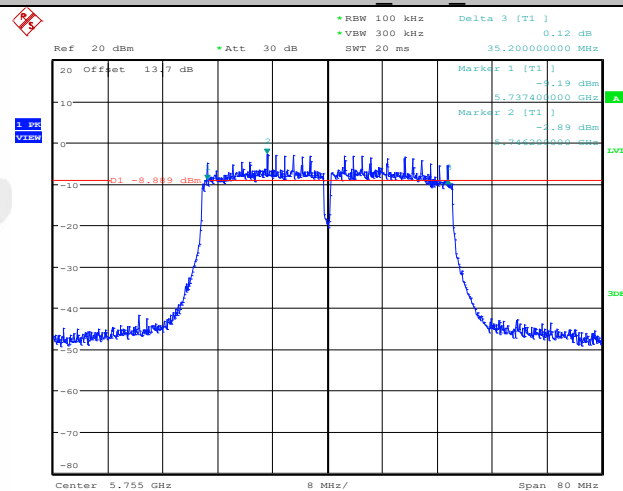
11AC20MIMO_Ant1_5825



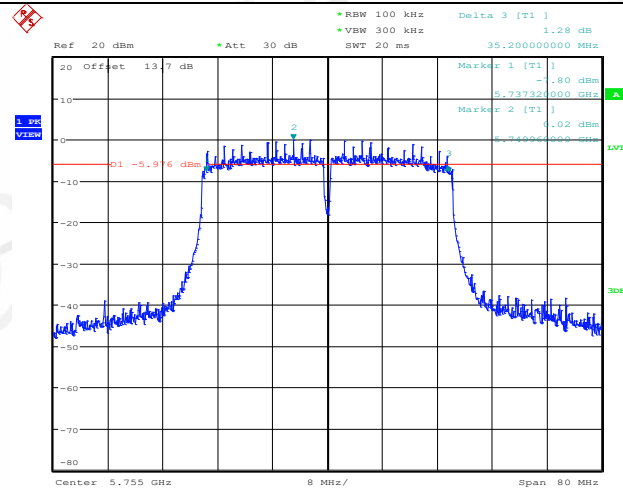
11AC20MIMO_Ant2_5825



11AC40MIMO_Ant1_5755

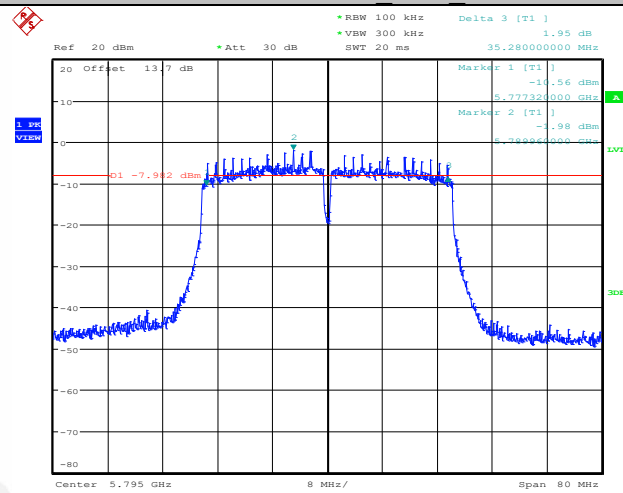


11AC40MIMO_Ant2_5755



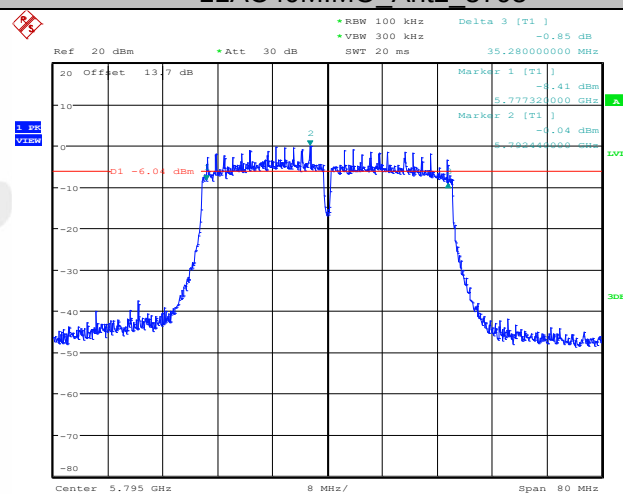
Date: 26.FEB.2022 13:25:26

11AC40MIMO_Ant1_5795



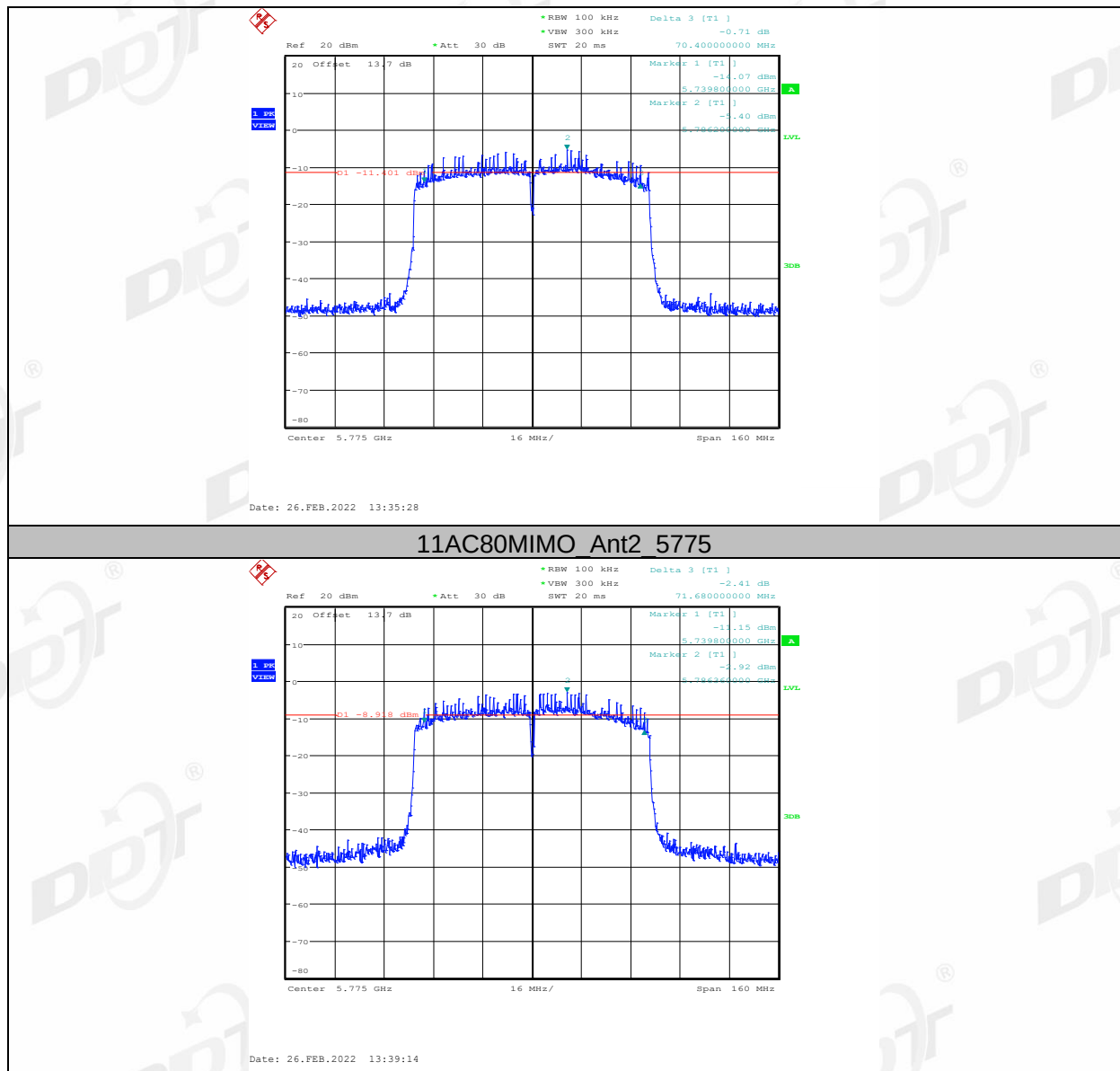
Date: 26.FEB.2022 13:27:13

11AC40MIMO_Ant2_5795



Date: 26.FEB.2022 13:29:08

11AC80MIMO_Ant1_5775



5. Maximum Output Power

5.1. Block diagram of test setup

Same as section 4.1

5.2. Limits

FCC Part15, Subpart E/ RSS-247		
Test Item	Limit	Frequency Range (MHz)
Conducted Output Power	For FCC client devices: 250 mW (24 dBm)	5150-5250
	For RSS: e.i.r.p. power: not exceed 200 mW (23 dBm) or $10 + 10 \log_{10} B$, whichever is less	
	1 Watt (30 dBm)	5725-5850
Note: 1. For FCC: B=26 bandwidth; For ISDE: B=99% bandwidth. Note: 2. For 802.11n and 802.11ac, the EUT incorporates a MIMO function. The Antenna directional gain is 4.01 dBi.		

5.3. Test Procedure

Connect each EUT's antenna output to power sensor by RF cable and attenuator

Measure the output power by power sensor.

5.4. Test Result

Test Mode	Antenna	Channel	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	12.84	<=24	Pass
	Ant2	5180	14.41	<=24	Pass
	Ant1	5200	13.11	<=24	Pass
	Ant2	5200	14.97	<=24	Pass
	Ant1	5240	14.38	<=24	Pass
	Ant2	5240	16.35	<=24	Pass
	Ant1	5745	14.35	<=30	Pass
	Ant2	5745	16.04	<=30	Pass
	Ant1	5785	14.07	<=30	Pass
	Ant2	5785	15.79	<=30	Pass
	Ant1	5825	13.83	<=30	Pass
	Ant2	5825	15.09	<=30	Pass
11N20MIMO	Ant1	5180	11.89	<=24	Pass
	Ant2	5180	13.47	<=24	Pass
	total	5180	15.80	<=24	Pass
	Ant1	5200	11.65	<=24	Pass
	Ant2	5200	13.68	<=24	Pass
	total	5200	15.80	<=24	Pass
	Ant1	5240	13.36	<=24	Pass
	Ant2	5240	15.15	<=24	Pass
	total	5240	17.40	<=24	Pass
	Ant1	5745	12.21	<=30	Pass
	Ant2	5745	14.51	<=30	Pass
	total	5745	16.50	<=30	Pass
	Ant1	5785	12.16	<=30	Pass
	Ant2	5785	14.41	<=30	Pass
	total	5785	16.40	<=30	Pass
	Ant1	5825	12.38	<=30	Pass
	Ant2	5825	13.56	<=30	Pass
	total	5825	16.00	<=30	Pass
11N40MIMO	Ant1	5190	11.24	<=24	Pass
	Ant2	5190	13.33	<=24	Pass
	total	5190	15.40	<=24	Pass
	Ant1	5230	12.27	<=24	Pass
	Ant2	5230	14.64	<=24	Pass
	total	5230	16.60	<=24	Pass
	Ant1	5755	11.66	<=30	Pass
	Ant2	5755	13.83	<=30	Pass
	total	5755	15.90	<=30	Pass
	Ant1	5795	11.98	<=30	Pass
	Ant2	5795	14.01	<=30	Pass
	total	5795	16.10	<=30	Pass
11AC20MIMO	Ant1	5180	11.50	<=24	Pass
	Ant2	5180	13.10	<=24	Pass
	total	5180	15.40	<=24	Pass
	Ant1	5200	11.65	<=24	Pass
	Ant2	5200	13.59	<=24	Pass

	total	5200	15.70	<=24	Pass
	Ant1	5240	13.18	<=24	Pass
	Ant2	5240	15.10	<=24	Pass
	total	5240	17.30	<=24	Pass
	Ant1	5745	12.49	<=30	Pass
	Ant2	5745	14.59	<=30	Pass
	total	5745	16.70	<=30	Pass
	Ant1	5785	12.24	<=30	Pass
	Ant2	5785	14.47	<=30	Pass
	total	5785	16.50	<=30	Pass
	Ant1	5825	12.75	<=30	Pass
	Ant2	5825	13.69	<=30	Pass
	total	5825	16.30	<=30	Pass
11AC40MIMO	Ant1	5190	10.89	<=24	Pass
	Ant2	5190	12.78	<=24	Pass
	total	5190	14.90	<=24	Pass
	Ant1	5230	11.99	<=24	Pass
	Ant2	5230	14.51	<=24	Pass
	total	5230	16.40	<=24	Pass
	Ant1	5755	12.05	<=30	Pass
	Ant2	5755	14.17	<=30	Pass
	total	5755	16.20	<=30	Pass
	Ant1	5795	11.76	<=30	Pass
	Ant2	5795	13.98	<=30	Pass
	total	5795	16.00	<=30	Pass
11AC80MIMO	Ant1	5210	11.18	<=24	Pass
	Ant2	5210	13.10	<=24	Pass
	total	5210	15.30	<=24	Pass
	Ant1	5775	10.79	<=30	Pass
	Ant2	5775	13.72	<=30	Pass
	total	5775	15.50	<=30	Pass

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Test Mode	Antenna	Channel	Result [dBm]	Limit [dBm]	Verdict
11A	total	5180	15.85	<=24	Pass
	total	5200	16.22	<=24	Pass
	total	5240	17.16	<=24	Pass
	total	5745	17.37	<=30	Pass
	total	5785	17.02	<=30	Pass
	total	5825	16.17	<=30	Pass
11N20MIMO	total	5180	16.87	<=24	Pass
	total	5200	16.83	<=24	Pass
	total	5240	18.05	<=24	Pass
	total	5745	17.70	<=30	Pass
	total	5785	17.48	<=30	Pass
	total	5825	16.88	<=30	Pass
11N40MIMO	total	5190	16.27	<=24	Pass
	total	5230	17.13	<=24	Pass
	total	5755	16.78	<=30	Pass
	total	5795	16.80	<=30	Pass
11AC20MIMO	total	5180	16.25	<=24	Pass

	total	5200	16.42	<=24	Pass
	total	5240	17.78	<=24	Pass
	total	5745	17.46	<=30	Pass
	total	5785	17.18	<=30	Pass
	total	5825	16.86	<=30	Pass
11AC40MIMO	total	5190	15.73	<=24	Pass
	total	5230	16.89	<=24	Pass
	total	5755	17.01	<=30	Pass
	total	5795	16.71	<=30	Pass

Test Mode	Antenna	Channel	EIRP [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	13.84	<=24	Pass
	Ant2	5180	15.41	<=24	Pass
	Ant1	5200	14.11	<=24	Pass
	Ant2	5200	15.97	<=24	Pass
	Ant1	5240	15.38	<=24	Pass
	Ant2	5240	17.35	<=24	Pass
	Ant1	5745	15.35	<=30	Pass
	Ant2	5745	17.04	<=30	Pass
	Ant1	5785	15.07	<=30	Pass
	Ant2	5785	16.79	<=30	Pass
	Ant1	5825	14.83	<=30	Pass
	Ant2	5825	16.09	<=30	Pass
11N20MIMO	Ant1	5180	12.89	<=24	Pass
	Ant2	5180	14.47	<=24	Pass
	total	5180	16.80	<=24	Pass
	Ant1	5200	12.65	<=24	Pass
	Ant2	5200	14.68	<=24	Pass
	total	5200	16.80	<=24	Pass
	Ant1	5240	14.36	<=24	Pass
	Ant2	5240	16.15	<=24	Pass
	total	5240	18.40	<=24	Pass
	Ant1	5745	13.21	<=30	Pass
	Ant2	5745	15.51	<=30	Pass
	total	5745	17.50	<=30	Pass
	Ant1	5785	13.16	<=30	Pass
	Ant2	5785	15.41	<=30	Pass
	total	5785	17.40	<=30	Pass
	Ant1	5825	13.38	<=30	Pass
	Ant2	5825	14.56	<=30	Pass
	total	5825	17.00	<=30	Pass
11N40MIMO	Ant1	5190	12.24	<=24	Pass
	Ant2	5190	14.33	<=24	Pass
	total	5190	16.40	<=24	Pass
	Ant1	5230	13.27	<=24	Pass
	Ant2	5230	15.64	<=24	Pass
	total	5230	17.60	<=24	Pass
	Ant1	5755	12.66	<=30	Pass
	Ant2	5755	14.83	<=30	Pass
	total	5755	16.90	<=30	Pass

	Ant1	5795	12.98	<=30	Pass
	Ant2	5795	15.01	<=30	Pass
	total	5795	17.10	<=30	Pass
11AC20MIMO	Ant1	5180	12.50	<=24	Pass
	Ant2	5180	14.10	<=24	Pass
	total	5180	16.40	<=24	Pass
	Ant1	5200	12.65	<=24	Pass
	Ant2	5200	14.59	<=24	Pass
	total	5200	16.70	<=24	Pass
	Ant1	5240	14.18	<=24	Pass
	Ant2	5240	16.10	<=24	Pass
	total	5240	18.30	<=24	Pass
	Ant1	5745	13.49	<=30	Pass
	Ant2	5745	15.59	<=30	Pass
	total	5745	17.70	<=30	Pass
	Ant1	5785	13.24	<=30	Pass
	Ant2	5785	15.47	<=30	Pass
	total	5785	17.50	<=30	Pass
	Ant1	5825	13.75	<=30	Pass
	Ant2	5825	14.69	<=30	Pass
	total	5825	17.30	<=30	Pass
11AC40MIMO	Ant1	5190	11.89	<=24	Pass
	Ant2	5190	13.78	<=24	Pass
	total	5190	15.90	<=24	Pass
	Ant1	5230	12.99	<=24	Pass
	Ant2	5230	15.51	<=24	Pass
	total	5230	17.40	<=24	Pass
	Ant1	5755	13.05	<=30	Pass
	Ant2	5755	15.17	<=30	Pass
	total	5755	17.20	<=30	Pass
	Ant1	5795	12.76	<=30	Pass
	Ant2	5795	14.98	<=30	Pass
	total	5795	17.00	<=30	Pass
11AC80MIMO	Ant1	5210	12.18	<=24	Pass
	Ant2	5210	14.10	<=24	Pass
	total	5210	16.30	<=24	Pass
	Ant1	5775	11.79	<=30	Pass
	Ant2	5775	14.72	<=30	Pass
	total	5775	16.50	<=30	Pass

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Test Mode	Antenna	Channel	EIRP [dBm]	Limit [dBm]	Verdict
11A	total	5180	18.37	<=24	Pass
	total	5200	18.59	<=24	Pass
	total	5240	19.14	<=24	Pass
	total	5745	19.81	<=30	Pass
	total	5785	19.38	<=30	Pass
	total	5825	18.39	<=30	Pass
11N20MIMO	total	5180	19.10	<=24	Pass
	total	5200	19.02	<=24	Pass
	total	5240	19.86	<=24	Pass

	total	5745	20.03	<=30	Pass
	total	5785	19.72	<=30	Pass
	total	5825	18.93	<=30	Pass
11N40MIMO	total	5190	18.31	<=24	Pass
	total	5230	18.82	<=24	Pass
	total	5755	18.83	<=30	Pass
	total	5795	18.66	<=30	Pass
11AC20MIMO	total	5180	18.27	<=24	Pass
	total	5200	18.30	<=24	Pass
	total	5240	19.41	<=24	Pass
	total	5745	19.40	<=30	Pass
	total	5785	19.03	<=30	Pass
11AC40MIMO	total	5825	18.58	<=30	Pass
	total	5190	17.73	<=24	Pass
	total	5230	18.52	<=24	Pass
	total	5755	18.99	<=30	Pass
	total	5795	18.59	<=30	Pass

6. Power Spectral Density

6.1. Block diagram of test setup

Same with 4.1

6.2. Limits

FCC Part15, Subpart E/ RSS-247		
Test Item	Limit	Frequency Range (MHz)
Power Spectral Density	For FCC: Other than Mobile and portable:17 dBm/MHz Mobile and portable client devices:11 dBm/MHz	5150-5250
	For RSS eirp:10 dBm/MHz	
	30 dBm/500 kHz	5725-5850
Note: For 802.11n and 802.11ac, the EUT incorporates a MIMO function. The Antenna directional gain is 4.01 dBi.		

6.3. Test Procedure

The transmitter output was connected to a spectrum analyzer. Power density was measured by spectrum analyzer with 1MHz RBW and 3MHz VBW.

Connect the UUT to the spectrum analyser and use the following settings:

5150 MHz~5250 MHz

Center Frequency	The centre frequency of the channel under test
Detector	RMS
RBW	1MHz
VBW	$\geq 3 \times \text{RBW}$
Span	Encompass the entire emissions bandwidth (EBW) of the signal
Trace	Max hold
Sweep time	Auto

5725 MHz-5850 MHz

Center Frequency	The centre frequency of the channel under test
Detector	RMS
RBW	500 kHz
VBW	$\geq 3 \times \text{RBW}$
Span	Encompass the entire emissions bandwidth (EBW) of the signal
Trace	Max hold
Sweep time	Auto

6.4. Test Result

Test Mode	Antenna	Channel	Result [dBm/MHz]	Limit [dBm/MHz]	Verdict
11A	Ant1	5180	1.18	<=11	Pass
	Ant2	5180	3.13	<=11	Pass
	Ant1	5200	2.02	<=11	Pass
	Ant2	5200	3.41	<=11	Pass
	Ant1	5240	2.49	<=11	Pass
	Ant2	5240	4.66	<=11	Pass
11N20MIMO	Ant1	5180	0.14	<=11	Pass
	Ant2	5180	1.74	<=11	Pass
	total	5180	4.02	<=11	Pass
	Ant1	5200	0.2	<=11	Pass
	Ant2	5200	1.79	<=11	Pass
	total	5200	4.08	<=11	Pass
	Ant1	5240	0.95	<=11	Pass
	Ant2	5240	2.9	<=11	Pass
	total	5240	5.04	<=11	Pass
11N40MIMO	Ant1	5190	-2.61	<=11	Pass
	Ant2	5190	-0.88	<=11	Pass
	total	5190	1.35	<=11	Pass
	Ant1	5230	-1.65	<=11	Pass
	Ant2	5230	0.83	<=11	Pass
	total	5230	2.77	<=11	Pass
11AC20MIMO	Ant1	5180	-0.15	<=11	Pass
	Ant2	5180	1.5	<=11	Pass
	total	5180	3.76	<=11	Pass
	Ant1	5200	-0.11	<=11	Pass
	Ant2	5200	1.72	<=11	Pass
	total	5200	3.91	<=11	Pass
	Ant1	5240	0.86	<=11	Pass
	Ant2	5240	2.85	<=11	Pass
	total	5240	4.98	<=11	Pass
11AC40MIMO	Ant1	5190	-3.01	<=11	Pass
	Ant2	5190	-1.41	<=11	Pass
	total	5190	0.87	<=11	Pass
	Ant1	5230	-1.78	<=11	Pass
	Ant2	5230	0.9	<=11	Pass
	total	5230	2.77	<=11	Pass
11AC80MIMO	Ant1	5210	-4.91	<=11	Pass
	Ant2	5210	-3.38	<=11	Pass
	total	5210	-1.07	<=11	Pass

(5725-5850)

Test Mode	Antenna	Channel	Result [dBm/500kHz]	Limit [dBm/500kHz]	Verdict
11A	Ant1	5745	0.01	<=30	Pass
	Ant2	5745	1.8	<=30	Pass
	Ant1	5785	0.61	<=30	Pass
	Ant2	5785	2.5	<=30	Pass

	Ant1	5825	-0.22	<=30	Pass
	Ant2	5825	1.27	<=30	Pass
11N20MIMO	Ant1	5745	-2.45	<=30	Pass
	Ant2	5745	-0.27	<=30	Pass
	total	5745	1.79	<=30	Pass
	Ant1	5785	-1.49	<=30	Pass
	Ant2	5785	0.81	<=30	Pass
	total	5785	2.82	<=30	Pass
	Ant1	5825	-2.06	<=30	Pass
	Ant2	5825	-0.56	<=30	Pass
	total	5825	1.76	<=30	Pass
11N40MIMO	Ant1	5755	-5.3	<=30	Pass
	Ant2	5755	-2.97	<=30	Pass
	total	5755	-0.97	<=30	Pass
	Ant1	5795	-4.39	<=30	Pass
	Ant2	5795	-2.35	<=30	Pass
	total	5795	-0.24	<=30	Pass
11AC20MIMO	Ant1	5745	-2.12	<=30	Pass
	Ant2	5745	-0.12	<=30	Pass
	total	5745	2.00	<=30	Pass
	Ant1	5785	-1.46	<=30	Pass
	Ant2	5785	0.77	<=30	Pass
	total	5785	2.81	<=30	Pass
	Ant1	5825	-1.64	<=30	Pass
	Ant2	5825	-0.32	<=30	Pass
	total	5825	2.08	<=30	Pass
11AC40MIMO	Ant1	5755	-4.57	<=30	Pass
	Ant2	5755	-2.54	<=30	Pass
	total	5755	-0.43	<=30	Pass
	Ant1	5795	-4.7	<=30	Pass
	Ant2	5795	-2.47	<=30	Pass
	total	5795	-0.43	<=30	Pass
11AC80MIMO	Ant1	5775	-7.81	<=30	Pass
	Ant2	5775	-5.11	<=30	Pass
	total	5775	-3.24	<=30	Pass

8800+8822

Test Mode	Antenna	Channel	Result [dBm/MHz]	Limit [dBm/MHz]	Verdict
11A	total	5180	4.34	<=11	Pass
	total	5200	4.44	<=11	Pass
	total	5240	5.33	<=11	Pass
11N20MIMO	total	5180	5.06	<=11	Pass
	total	5200	5.01	<=11	Pass
	total	5240	5.66	<=11	Pass
11N40MIMO	total	5190	2.28	<=11	Pass
	total	5230	3.25	<=11	Pass
11AC20MIMO	total	5180	4.79	<=11	Pass
	total	5200	4.78	<=11	Pass
	total	5240	5.61	<=11	Pass
11AC40MIMO	total	5190	1.74	<=11	Pass
	total	5230	3.28	<=11	Pass

(5725-5850)

Test Mode	Antenna	Channel	Result [dBm/500kHz]	Limit [dBm/500kHz]	Verdict
11A	total	5745	3.77	<=30	Pass
	total	5785	4.38	<=30	Pass
	total	5825	3.04	<=30	Pass
11N20MIMO	total	5745	3.73	<=30	Pass
	total	5785	4.56	<=30	Pass
	total	5825	3.36	<=30	Pass
11N40MIMO	total	5755	1.18	<=30	Pass
	total	5795	1.35	<=30	Pass
11AC20MIMO	total	5745	3.85	<=30	Pass
	total	5785	4.55	<=30	Pass
	total	5825	3.51	<=30	Pass
11AC40MIMO	total	5755	1.16	<=30	Pass
	total	5795	0.93	<=30	Pass

11A Ant1 5180

Ref 33.7 dBm * Att. 30 dB RBW 1 MHz Marker 1 [T1] 1.18 dBm
VBW 3 MHz SWF 20 ms 5.17115385 GHz

Offset 13.7 dB

1.18 dB View

30 dB

1

Center 5.18 GHz 4 MHz/ Span 40 MHz

Date: 24.FEB.2022 11:50:19

11A Ant2 5180

Ref 33.7 dBm * Att. 30 dB RBW 1 MHz Marker 1 [T1] 3.13 dBm
VBW 3 MHz SWF 20 ms 5.181153846 GHz

Offset 13.7 dB

1.33 dB View

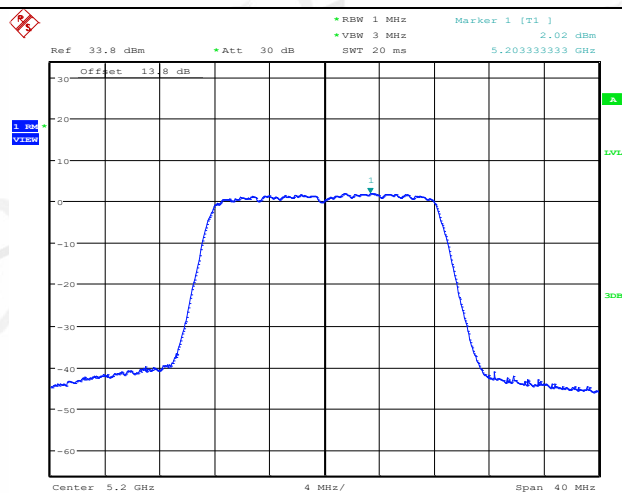
30 dB

1

Center 5.18 GHz 4 MHz/ Span 40 MHz

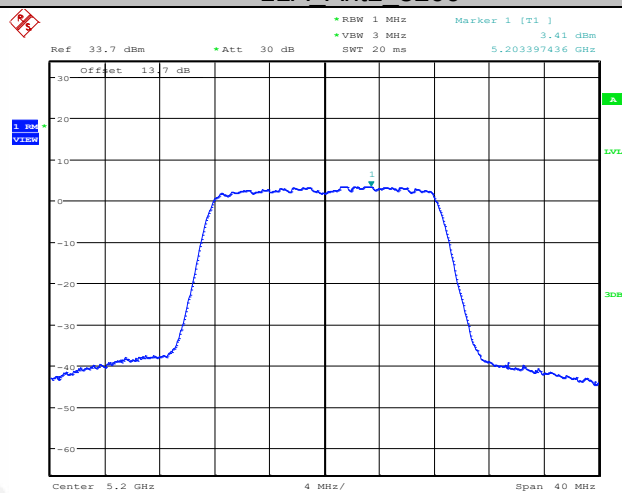
Date: 26.FEB.2022 11:28:47

11A Ant1 5200



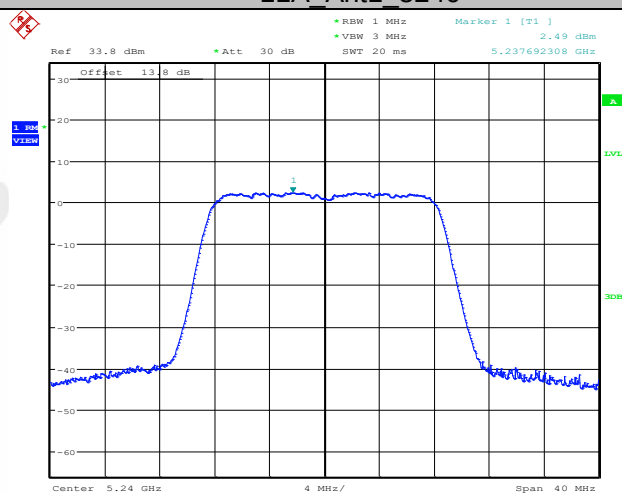
Date: 26.FEB.2022 11:26:11

11A_Ant2_5200



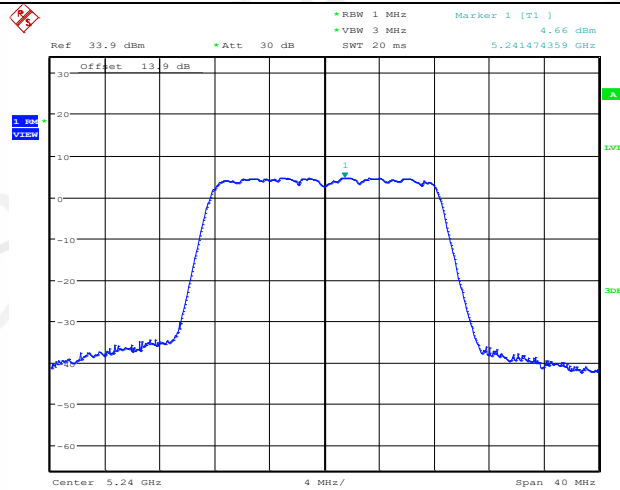
Date: 26.FEB.2022 11:35:22

11A_Ant1_5240



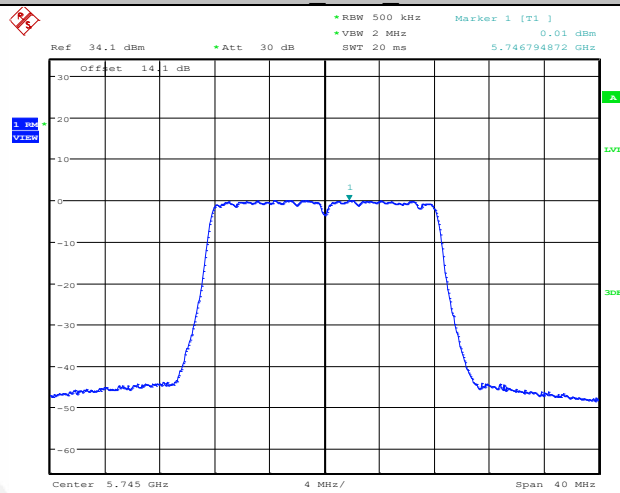
Date: 26.FEB.2022 11:27:37

11A_Ant2_5240



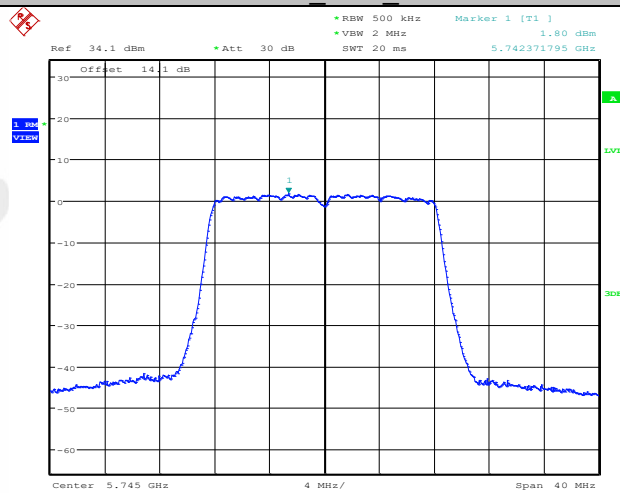
Date: 26.FEB.2022 11:38:00

11A_Ant1_5745



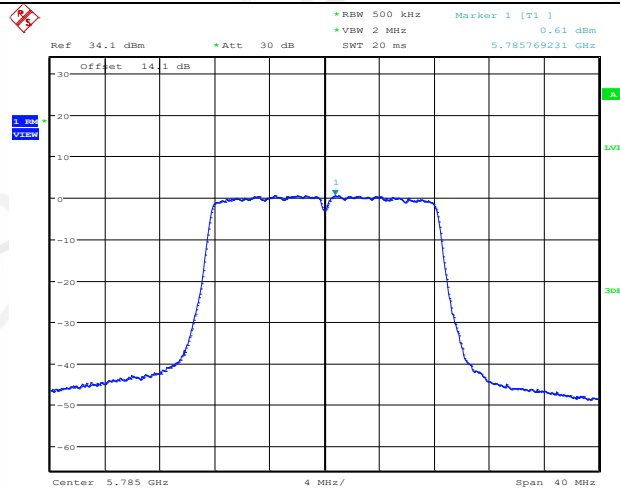
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11A_Ant2_5745



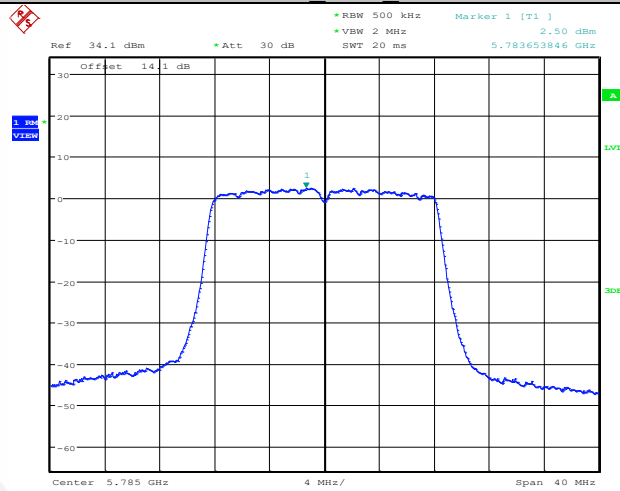
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11A_Ant1_5785



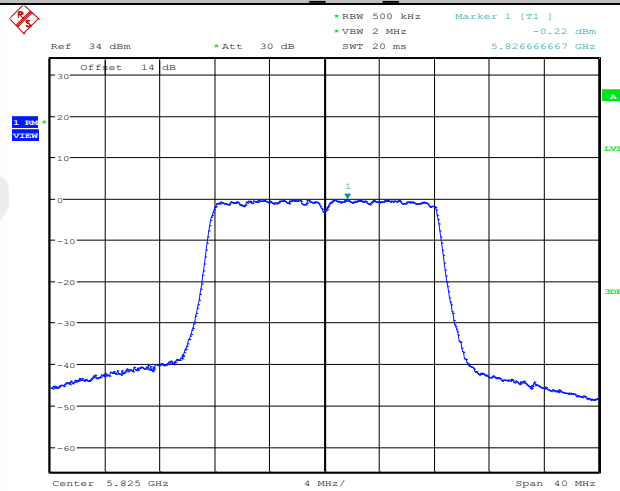
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11A_Ant2_5785



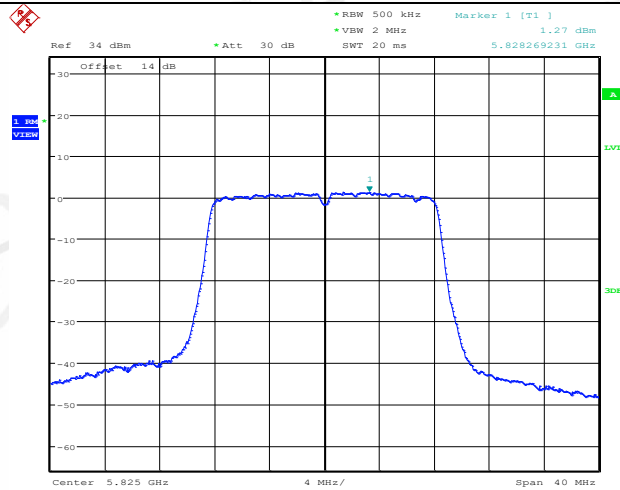
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11A_Ant1_5825



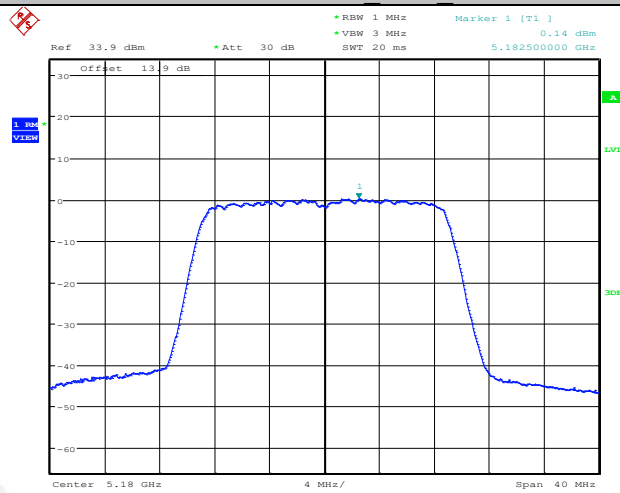
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11A_Ant2_5825



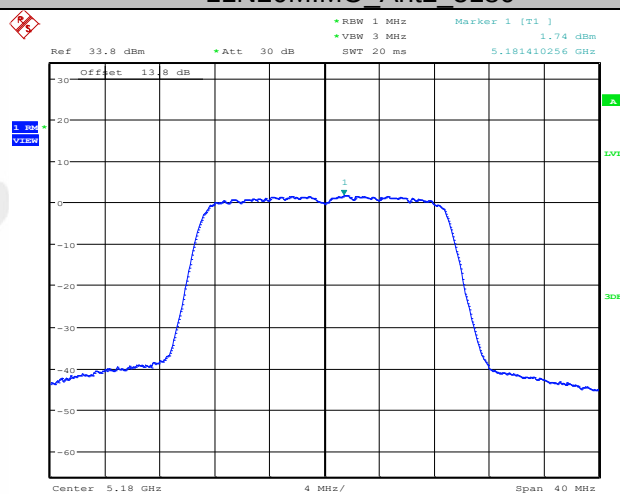
Date: 26.FEB.2022 11:46:40

11N20MIMO Ant1 5180



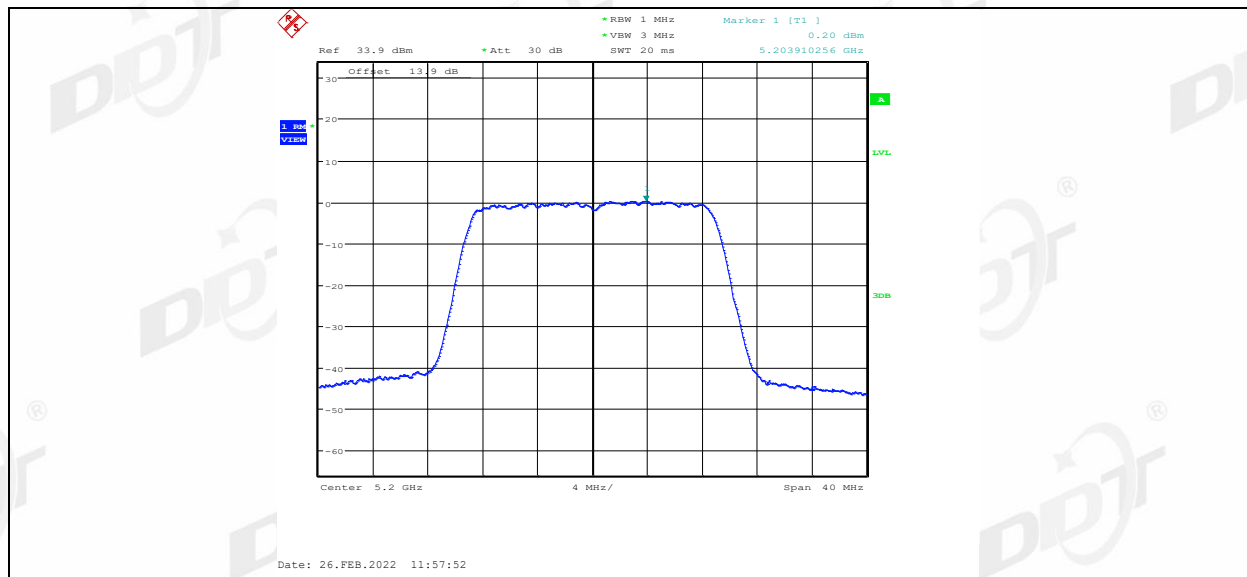
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11N20MIMO Ant2 5180

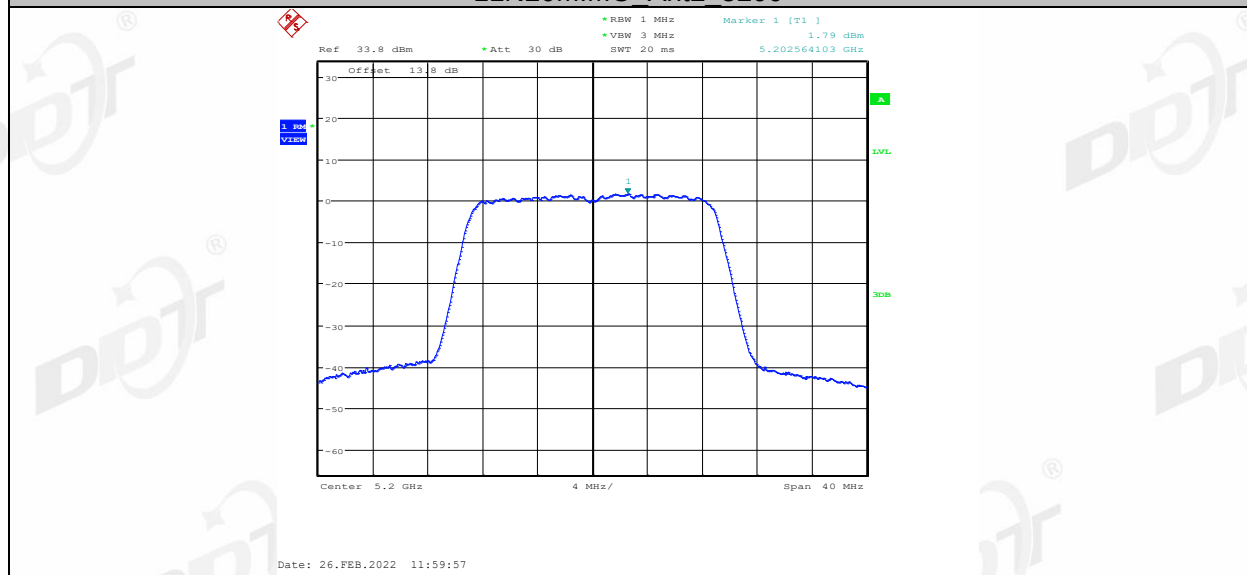


Date: 26.FEB.2022 11:54:57

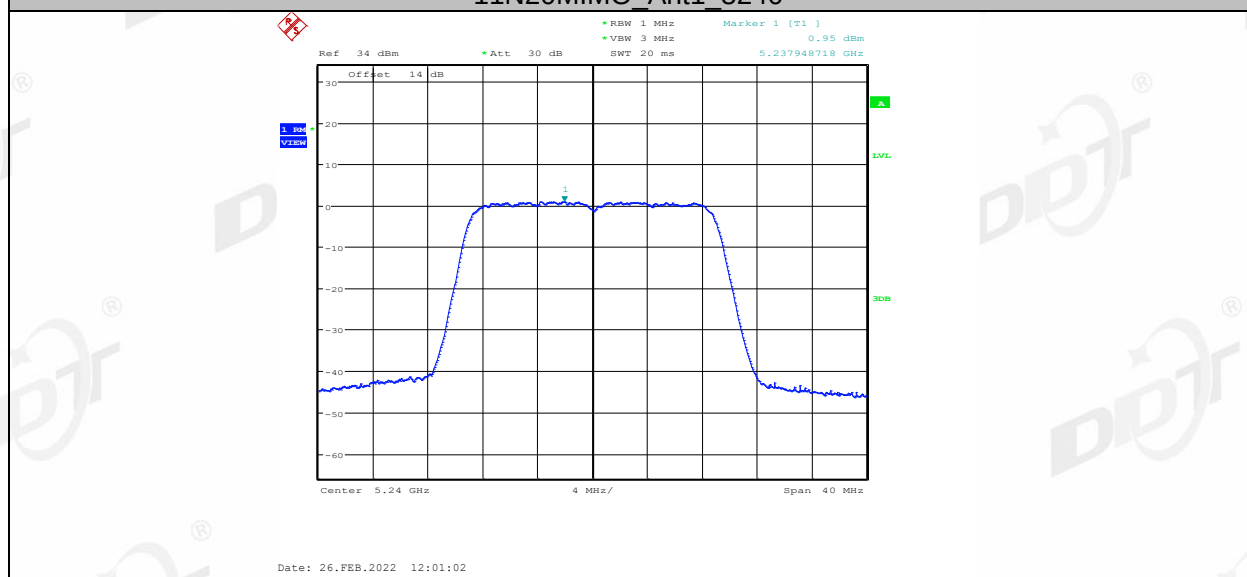
11N20MIMO Ant1 5200



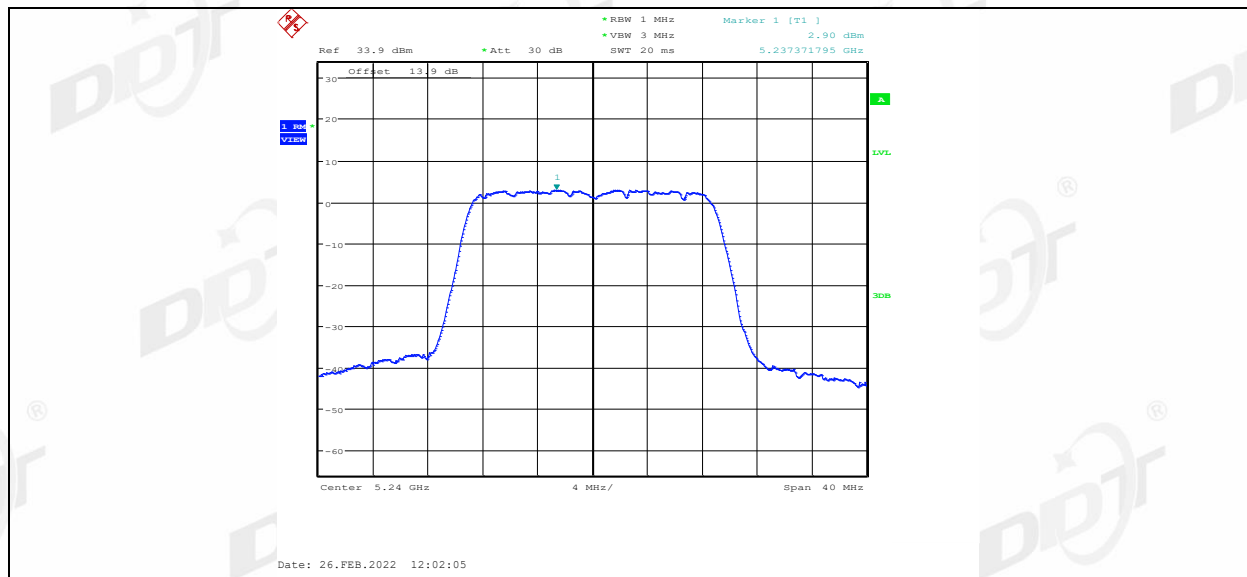
11N20MIMO_Ant2_5200



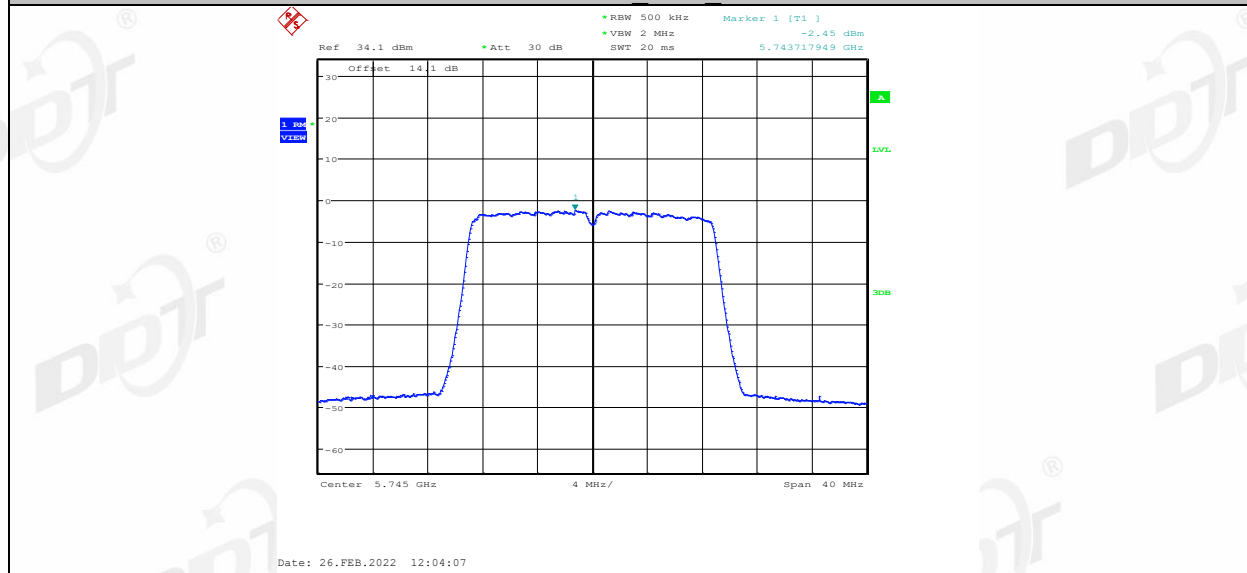
11N20MIMO_Ant1_5240



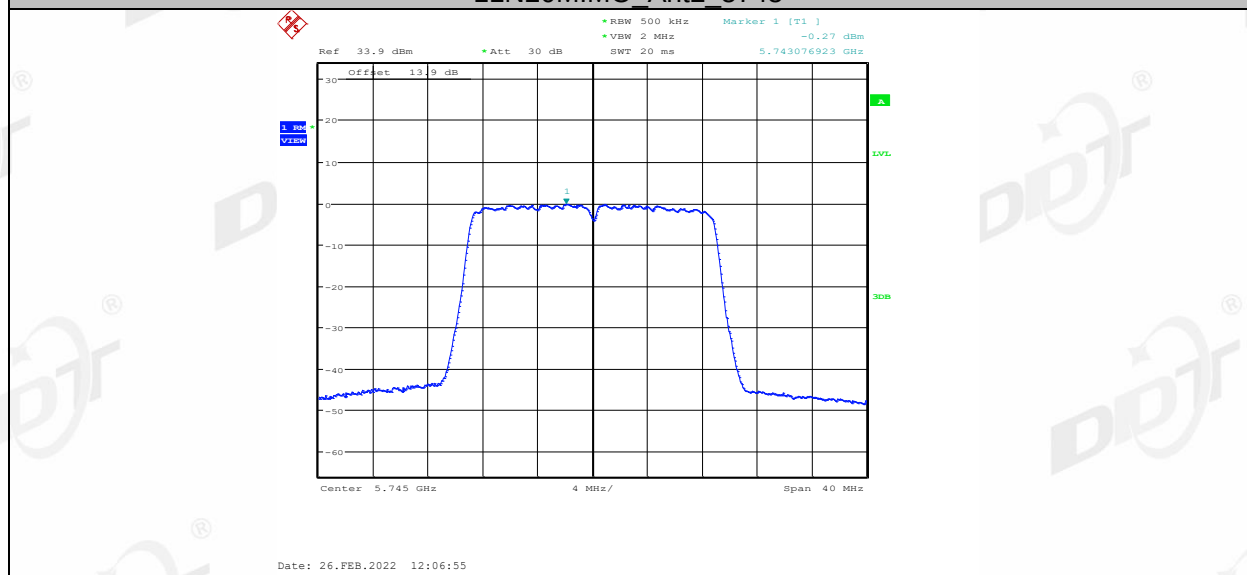
11N20MIMO_Ant2_5240



11N20MIMO_Ant1_5745



11N20MIMO_Ant2_5745



11N20MIMO_Ant1_5785