



Certificate #4312.01

TEST REPORT

Product Name: True Smart OTT BOX, TrueID TV
Trade Mark: SKYWORTH, TRUEIDTV
Model No.: HP4CE
Add. Model No.: HP4C00, SKWAMX5M, HP4C24, HP4CV
Report Number: 26022622725RFC-4
Test Standards: FCC 47 CFR Part 15 Subpart E
FCC ID: WNA-HP4CV
Test Result: PASS
Date of Issue: April 22, 2026

Prepared for:

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UTTR-RF-FCCPART15.407-V1.3

Version

Version No.	Date	Description
V1.0	April 22, 2026	Original



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1. GENERAL INFORMATION

1.1 CLIENT INFORMATION

Applicant:	Shenzhen Skyworth Digital Technology Co., Ltd.
Address of Applicant:	14/F, Unit A, Skyworth Building, Gaoxin Ave.1.S., Nanshan District, Shenzhen, China
Manufacturer:	Shenzhen Skyworth Digital Technology Co., Ltd.
Address of Manufacturer:	14/F, Unit A, Skyworth Building, Gaoxin Ave.1.S., Nanshan District, Shenzhen, China

1.2 EUT INFORMATION

1.2.1 General Description of EUT

Product Name:	True Smart OTT BOX, TrueID TV		
Model No.:	HP4CE		
Add. Model No.:	HP4C00, SKWAMX5M, HP4C24, HP4CV		
Trade Mark:	SKYWORTH, TRUEIDTV		
DUT Stage:	Identical Prototype		
EUT Supports Function: (Provided by the customer)	2.4 GHz ISM Band:	IEEE 802.11b/g/n/ax	
		Bluetooth V5.4	
	5 GHz U-NII Bands:	5 150 MHz to 5 250 MHz	IEEE 802.11a/n/ac/ax
		5 250 MHz to 5 350 MHz	IEEE 802.11a/n/ac/ax
		5 470 MHz to 5 725 MHz	IEEE 802.11a/n/ac/ax
		5 725 MHz to 5 850 MHz	IEEE 802.11a/n/ac/ax
Sample Received Date:	February 26, 2026		
Sample Tested Date:	February 27, 2026 to March 24, 2026		
Note:1			
Models	HP4CE, HP4C00, SKWAMX5M	HP4C24, HP4CV, SKWAMX5M	
DDR	K4A8G165WB-BCTD	RH451281-26F	
eMMC	SGM8100C-Y02BBG	E32GCSAF1ABE00	
Camera module	SU2-G2-U20-H110T	SU2-G2-U20-H110T LE2921FA	
Identities and differences:			
In electrical characteristics, the above models have the same main chip, wireless chip and antenna, as well as appearance. The differences among them are type designation, DDR, eMMC and Camera module. Therefore, the model HP4CE was chosen to perform the RF tests as representative.			

Remark: The above EUT's information was provided by customer. Please refer to the specifications or user's manual for more detailed description.

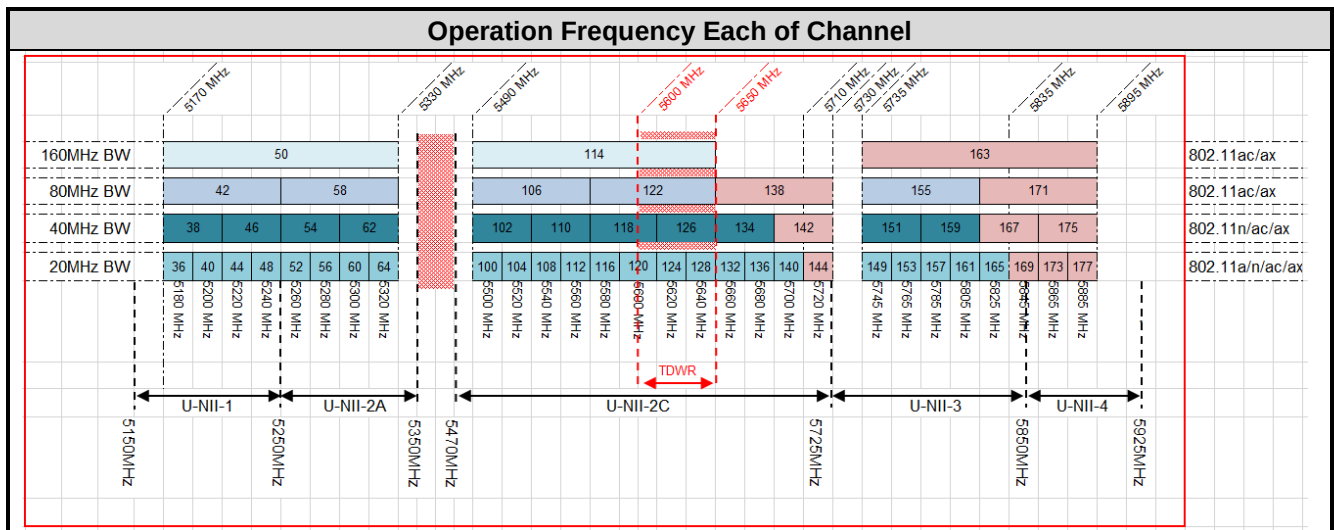
1.2.2 Description of Accessories

Refer to Report 26022622725EMC-1 for accessories.

1.3 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD

Frequency Bands:	5150 MHz to 5250 MHz (U-NII-1)				
	5250 MHz to 5350 MHz (U-NII-2A)				
	5470 MHz to 5725 MHz (U-NII-2C)				
	5725 MHz to 5850 MHz (U-NII-3)				
Frequency Ranges:	5180 MHz to 5240 MHz				
	5260 MHz to 5320 MHz				
	5500 MHz to 5720 MHz				
	5745 MHz to 5825 MHz				
Support Standards:	IEEE 802.11a/n/ac/ax				
TPC Function:	Not Support				
DFS Operational mode:	Slave without radar Interference detection function				
Type of Modulation:	IEEE 802.11a/n: OFDM (64QAM, 16QAM, QPSK, BPSK)				
	IEEE 802.11ac: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK)				
	IEEE 802.11ax: OFDM/OFDMA ^{Note1} (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK)				
Channel Spacing:	IEEE 802.11a/n-HT20/ac-VHT20/ax-HE20: 20 MHz				
	IEEE 802.11n-HT40/ac-VHT40/ax-HE40: 40 MHz				
	IEEE 802.11ac-VHT80/ax-HE80: 80 MHz				
Data Rate:	IEEE 802.11a: Up to 54 Mbps				
	IEEE 802.11n: Up to MCS15				
	IEEE 802.11ac-VHT20: Up to MCS8				
	IEEE 802.11ac-VHT40/VHT80: Up to MCS9				
	IEEE 802.11ax-HE20/HE40/HE80: Up to MCS11				
Number of Channels:	5150 MHz to 5350 MHz: 8 for 802.11a/n-HT20/ac-VHT20/ax-HE20 4 for 802.11n-HT40/ac-VHT40/ax-HE40 2 for 802.11ac-VHT80/ax-HE80				
	5470 MHz to 5725 MHz: 11 for 802.11a/n-HT20/ac-VHT20/ax-HE20 5 for 802.11n-HT40/ac-VHT40/ax-HE40 2 for 802.11ac-VHT80/ax-HE80				
	5725 MHz to 5850 MHz: 5 for IEEE 802.11a/n-HT20/ac-VHT20/ax-HE20 2 for IEEE 802.11n-HT40/ac-VHT40/ax-HE40 1 for IEEE 802.11ac-VHT80/ax-HE80				
Antenna Type: (Provided by the customer)	Antenna 1:	PCB Antenna			
	Antenna 2:	PCB Antenna			
Antenna Gain (Provided by the customer)	Antenna	U-NII-1	U-NII-2A	U-NII-2C	U-NII-3
	Antenna 1:	2.5	2.5	2.5	3.4
	Antenna 2:	2.7	2.5	2.5	2.5
Normal Test Voltage:	12 Vdc				
Note: 1. For IEEE 802.11ax, the customer declaration the product supports only the Full RU mode. 2. The Nss=1 and Nss=2 modes use the same power setting, and the report records data of Nss=1.					

1.4 OTHER INFORMATION



1.5 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested with associated equipment below.

1) Support Equipment

Description	Manufacturer	Model No.	Serial Number	FCC ID	Supplied by
Key-Press Attenuator	Huaxin	KT2.5-90/1S-2S	UTTL-EN023	N/A	UnionTrust
4 Way Divider	WOKEN	0120A04056000 2D	UTTL-EN028	N/A	UnionTrust
Wireless Router	SAGEMCOM	RAC2V1S	253703944	VW3FAST5280	UnionTrust
Notebook	DELL	Latitude 3400	16238087894	N/A	UnionTrust
Mouse	DELL	MS111	CN-011D3V-738	N/A	UnionTrust

2) Support Cable

Cable No.	Description	Connector	Length	Supplied by
1	Antenna Cable*2	SMA	0.1Meter	UnionTrust

1.6 TEST LOCATION

Shenzhen UnionTrust Quality and Technology Co., Ltd.

Address: 16/F., Block A, Building 6, Baoneng Science and Technology Park, Longhua Street, Longhua District, Shenzhen, Guangdong, China 518109

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Fax: +86 (0) 755 2823 0886

1.7 TEST FACILITY

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

CNAS-Lab Code: L9069

The measuring equipment utilized to perform the tests documented in this report has been calibrated once a

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year or in accordance with the manufacturer's recommendations, and is traceable under the ISO/IEC 17025 to international or national standards. Equipment has been calibrated by accredited calibration laboratories.

A2LA-Lab Certificate No.: 4312.01

Shenzhen UnionTrust Quality and Technology Co., Ltd. has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

ISED Wireless Device Testing Laboratories

CAB identifier: CN0032

FCC Accredited Lab.

Designation Number: CN1194

Test Firm Registration Number: 259480

1.8 DEVIATION FROM STANDARDS

None.

1.9 ABNORMALITIES FROM STANDARD CONDITIONS

None.

1.10 OTHER INFORMATION REQUESTED BY THE CUSTOMER

None.

1.11 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

No.	Item	Measurement Uncertainty
1	Conducted emission 9KHz-150KHz	±3.2 dB
2	Conducted emission 150KHz-30MHz	±2.7 dB
3	Radiated emission 9KHz-30MHz	± 4.7 dB
4	Radiated emission 30MHz-1GHz	± 4.9 dB
5	Radiated emission 1GHz-18GHz	± 4.8 dB
6	Radiated emission 18GHz-26GHz	± 5.1 dB
7	Radiated emission 26GHz-40GHz	± 5.1 dB
8	Conducted spurious emissions	± 2.7 dB
9	RF Power, Conducted	± 0.68 dB
10	Occupied Bandwidth	± 1.86 %
11	Radio Frequency	5.6 GHz: ± 6.4 x 10 ⁻⁸
12	Transmission Time	± 0.19 %

2. TEST SUMMARY

FCC 47 CFR Part 15 Subpart E Test Cases			
Test Item	Test Requirement	Test Method	Result
Antenna Requirement	FCC 47 CFR Part 15 Subpart C Section 15.203 FCC 47 CFR Part 15 Subpart E Section 15.407(a)(1) (2)	N/A	PASS
26 dB emission bandwidth	FCC 47 CFR Part 15 Subpart E Section 15.407 (a)(2)(5)	KDB 789033 D02 v02r01 Section C.1	PASS
6 dB bandwidth	FCC 47 CFR Part 15 Subpart E Section 15.407 (e)	KDB 789033 D02 v02r01 Section C.2	PASS
99% Occupied Bandwidth	N/A	KDB 789033 D02 v02r01 Section D	N/A Note 2
Maximum conducted output power & Transmit Power Control	FCC 47 CFR Part 15 Subpart E Section 15.407 (a)(1)(2)(3)& (h)(1)	KDB 789033 D02 v02r01 Section E.3.a (Method PM)	PASS
Peak Power Spectral Density	FCC 47 CFR Part 15 Subpart E Section 15.407 (a)(1)(2)(3)	KDB 789033 D02 v02r01 Section F	PASS
Radiated Emissions and Band Edge Measurement	FCC 47 CFR Part 15 Subpart E Section 15.407 (b)(1)(2)(3)(4)(6) FCC 47 CFR Part 15 Subpart C Section 15.209/205	KDB 789033 D02 v02r01 Section G.3, G.4, G.5, and G.6	PASS
Dynamic Frequency Selection	FCC 47 CFR Part 15 Subpart E Section 15.407 (h)	KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02	PASS
AC Power Line Conducted Emission	FCC 47 CFR Part 15 Subpart E Section 15.407 (b)(6) FCC 47 CFR Part 15 Subpart C Section 15.207	ANSI C63.10-2020, Section 6.2.	PASS
Note: 1) N/A: In this whole report not applicable. 2) No test requirement, for reporting purposes only.			
Disclaimer and Explanations: The declared of product specification and data (e.g., antenna gain, RF specification, etc) for EUT presented in the report are provided by the customer, and the customer takes all the responsibilities for the accuracy of product specification.			

3. EQUIPMENT LIST

Radiated Emission Test Equipment List						
Used	Equipment	Manufacturer	Model No.	Serial Number	Cal. date	Cal. Due date
☒	3m SAC	ETS-LINDGREN	3M	Euroshiedpn-CT001270-1317	11-Nov-2023	10-Nov-2026
☒	Receiver	R&S	ESIB26	100114	24-Oct-2025	23-Oct-2026
☒	EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY51440197	28-Mar-2025	27-Mar-2026
☒	Loop Antenna	ETS-LINDGREN	6502	00202525	26-Oct-2025	25-Oct-2026
☒	Broadband Antenna	ETS-LINDGREN	3142E	00201566	27-Mar-2025	28-Mar-2026
☒	6dB Attenuator	Talent	RA6A5-N-18	18103001	24-Oct-2025	23-Oct-2026
☒	Preamplifier	HP	8447F	2805A02960	24-Oct-2025	23-Oct-2026
☒	Double-Ridged Waveguide Horn Antenna (Pre-amplifier)	ETS-LINDGREN	3116C-PA	00202652	24-Oct-2025	23-Oct-2026
☒	Pre-amplifier	ETS-Lindgren	00118384	00202652	24-Oct-2025	23-Oct-2026
☒	Double-Ridged Waveguide Horn Antenna (Pre-amplifier)	ETS-LINDGREN	3117-PA	00201541	29-Mar-2025	28-Mar-2026
☒	Pre-amplifier	ETS-Lindgren	00118385	00201874	28-Mar-2025	27-Mar-2026
☒	Multi device Controller	ETS-LINDGREN	7006-001	00160105	N/A	N/A
☒	Test Software	Audix	e3	Software Version: 9.160323		

Conducted Emission Test Equipment List						
Used	Equipment	Manufacturer	Model No.	Serial Number	Cal. date	Cal. Due date
☒	Receiver	R&S	ESCI 3	101192	24-Oct-2025	23-Oct-2026
☒	LISN	R&S	EVN216	3560.6550.12	22-Jan-2026	21-Jan-2027
☐	LISN	ETS-Lindgren	3816/2SH	00201088	22-Jan-2026	21-Jan-2027
☒	Test Software	EZ-EMC	EZ-CON	Software Version: EMC-CON 3A1.1		

Conducted RF test Equipment List						
Used	Equipment	Manufacturer	Model No.	Serial Number	Cal. date	Cal. Due date
☒	EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY51440197	28-Mar-2025	27-Mar-2026
☒	USB Wideband Power Sensor	KEYSIGHT	U2021XA	MY55430035	24-Oct-2025	23-Oct-2026
☒	EXG-B RF Analog Signal Generator	KEYSIGHT	N5171B	MY53051777	24-Oct-2025	23-Oct-2026
☒	MXG X-Series RF Vector Signal Generator	KEYSIGHT	N5182B	MY51350267	24-Oct-2025	23-Oct-2026
☒	Spectrum Analyzer	R&S	FSV40-N	101653	28-Mar-2025	27-Mar-2026

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4. TEST CONFIGURATION

4.1 ENVIRONMENTAL CONDITIONS FOR TESTING

4.1.1 Normal or Extreme Test Conditions

Environment Parameter	Selected Values During Tests		
Test Condition	Ambient		
	Temperature (°C)	Voltage (V)	Relative Humidity (%)
NT/NV	+15 to +35	12	20 to 75
Remark: 1) NV: Normal Voltage; NT: Normal Temperature			

4.1.2 Record of Normal Environment and Test Sample

Test Item	Temp. (°C)	Relative Humidity (%)	Pressure (kPa)	Sample No.	Tested by
AC Power Line Conducted Emission	23.7	71.9	99.8	S202602257983-ZJA03/6	Shirley Wu
26 dB emission bandwidth	22.9	55.4	99.8	S202602257983-ZJA01/6	Erina Chen
Maximum conducted output power					
Peak Power Spectral Density					
6 dB bandwidth					
Dynamic Frequency Selection	23.3	65.8	100.4	S202602257983-ZJA02/6	Leo Li
Radiated Emissions and Band Edge Measurement					

4.2 TEST CHANNELS

Mode	Tx/Rx Frequency	Test RF Channel Lists		
		Lowest(L)	Middle(M)	Highest(H)
IEEE 802.11a IEEE 802.11n-HT20 IEEE 802.11ac-VHT20 IEEE 802.11ax-HE20	5150 - 5250 MHz	Channel 36	Channel 40	Channel 48
		5180 MHz	5200 MHz	5240 MHz
	5250 - 5350 MHz	Channel 52	Channel 56	Channel 64
		5260 MHz	5280 MHz	5320 MHz
	5470 - 5725 MHz	Channel 100	Channel 120	Channel 140/ Channel 144
		5500 MHz	5600 MHz	5700 MHz/ 5720MHz
	5725 - 5850 MHz	Channel 144/ Channel 149	Channel 157	Channel 165
		5720MHz/ 5745 MHz	5785 MHz	5825 MHz
IEEE 802.11n-HT40 IEEE 802.11ac-VHT40 IEEE 802.11ax-HE4 0	5150 - 5250 MHz	Channel 38	--	Channel 46
		5190 MHz	--	5230 MHz
	5250 - 5350 MHz	Channel 54	--	Channel 62
		5270 MHz	--	5310 MHz
	5470 - 5725 MHz	Channel 102	Channel 118	Channel 134/ Channel 142
		5510 MHz	5590 MHz	5670 MHz/ 5710MHz

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IEEE 802.11ac-VHT80 IEEE 802.11ax-HE80	5725 - 5850 MHz	Channel 142/ Channel 151	--	Channel 159
		5710MHz/ 5755 MHz	--	5795 MHz
	5150 - 5250 MHz	--	Channel 42	--
		--	5210 MHz	--
	5250 - 5350 MHz	--	Channel 58	--
		--	5290 MHz	--
	5470 - 5725 MHz	Channel 106	Channel 122	Channel 138
		5530 MHz	5610 MHz	5569 MHz
	5725 - 5850 MHz	Channel 138	Channel 155	--
		5610 MHz	5775 MHz	--

4.3 EUT TEST STATUS

Mode	Tx/Rx Function	Description
IEEE 802.11a	1Tx/1Rx	1. Keep the EUT in continuously transmitting or receiving with modulation and data rates test single. 2. Keep the equipment in normal operation and achieve a certain throughput.
IEEE 802.11n	2Tx/2Rx	
IEEE 802.11ac		
IEEE 802.11ax		

Test Software (Provided by the customer)

Test software name: Putty command;

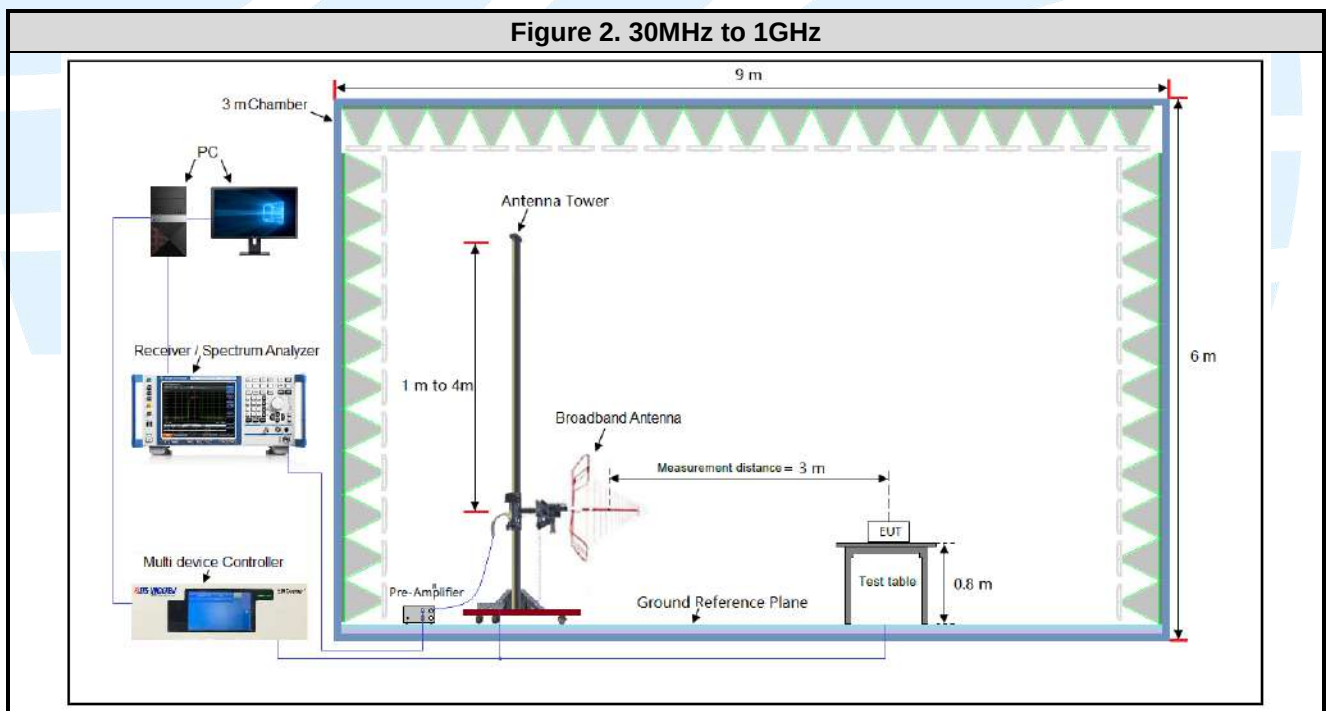
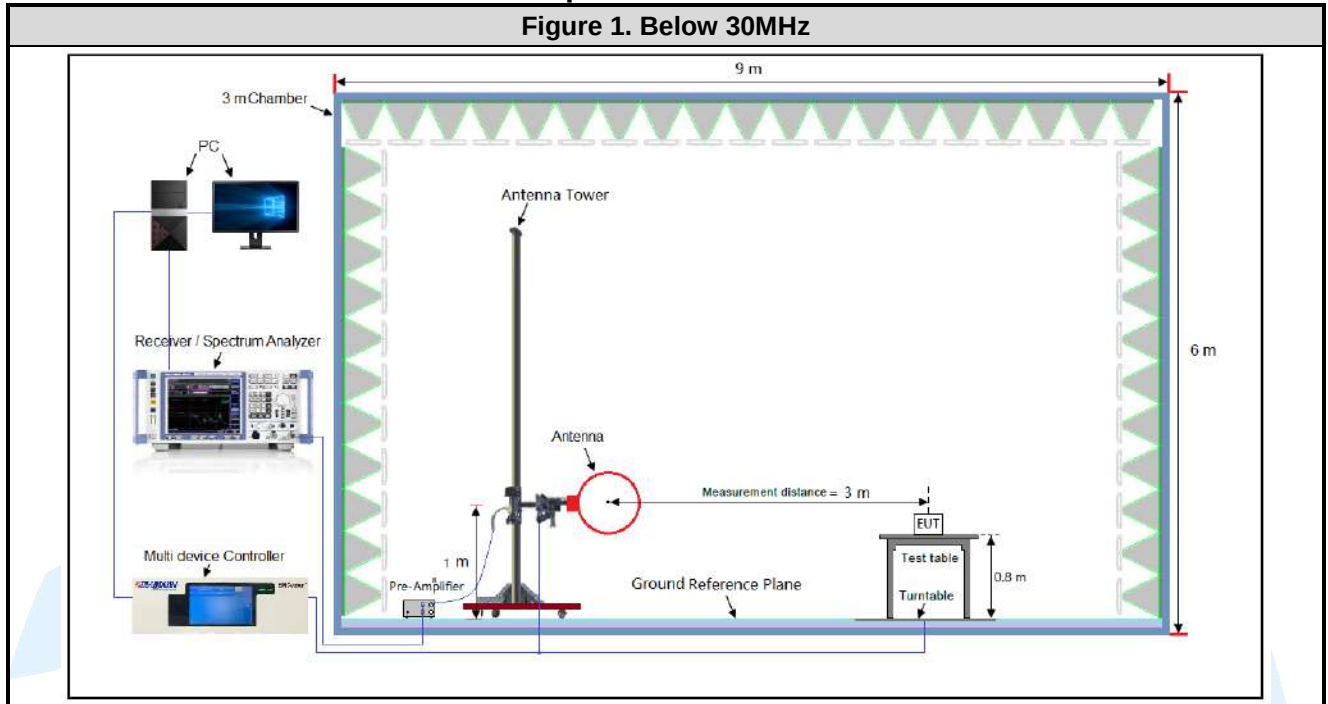
4.4 PRE-SCAN

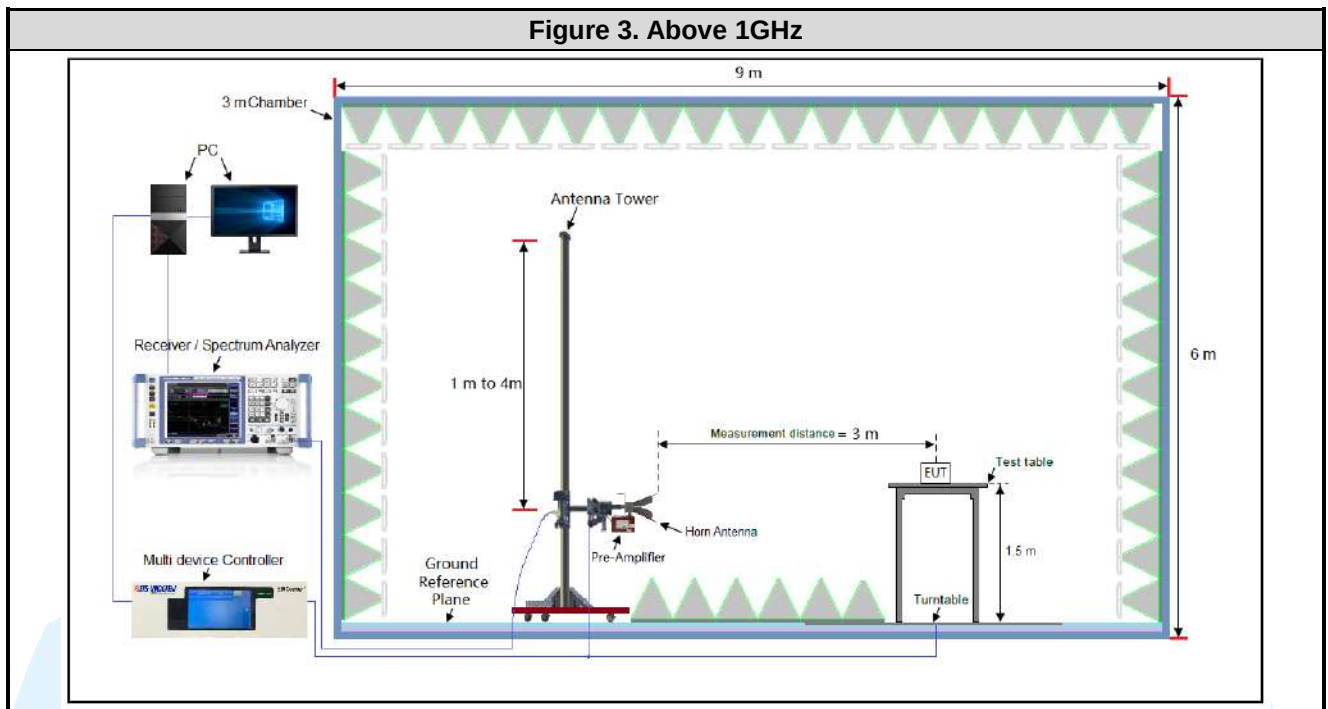
Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations and data rate. Following data rate was (were) selected for the final test as listed below

Mode	Worst-case data rates
IEEE 802.11a	6 Mbps
IEEE 802.11n-HT20	MCS8
IEEE 802.11n-HT40	MCS8
IEEE 802.11ac-VHT20	MCS0
IEEE 802.11ac-VHT40	MCS0
IEEE 802.11ac-VHT80	MCS0
IEEE 802.11ax-HE20	MCS0
IEEE 802.11ax-HE40	MCS0
IEEE 802.11ax-HE80	MCS0

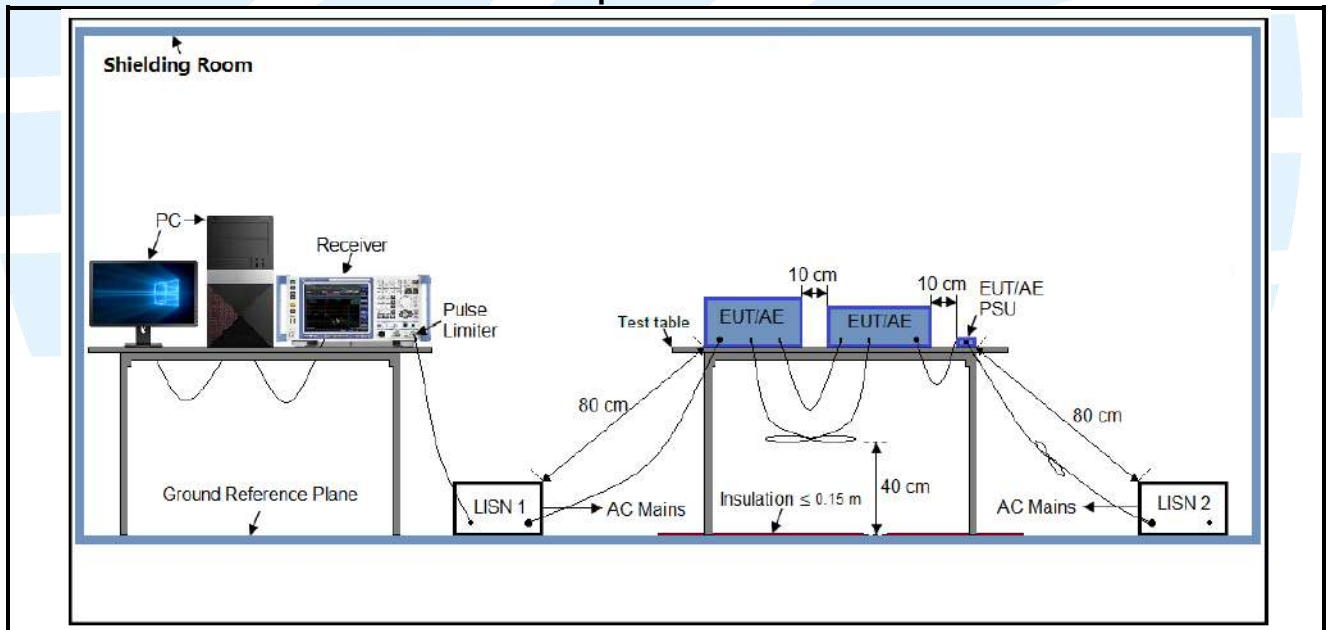
4.5 TEST SETUP

4.5.1 For Radiated Emissions test setup

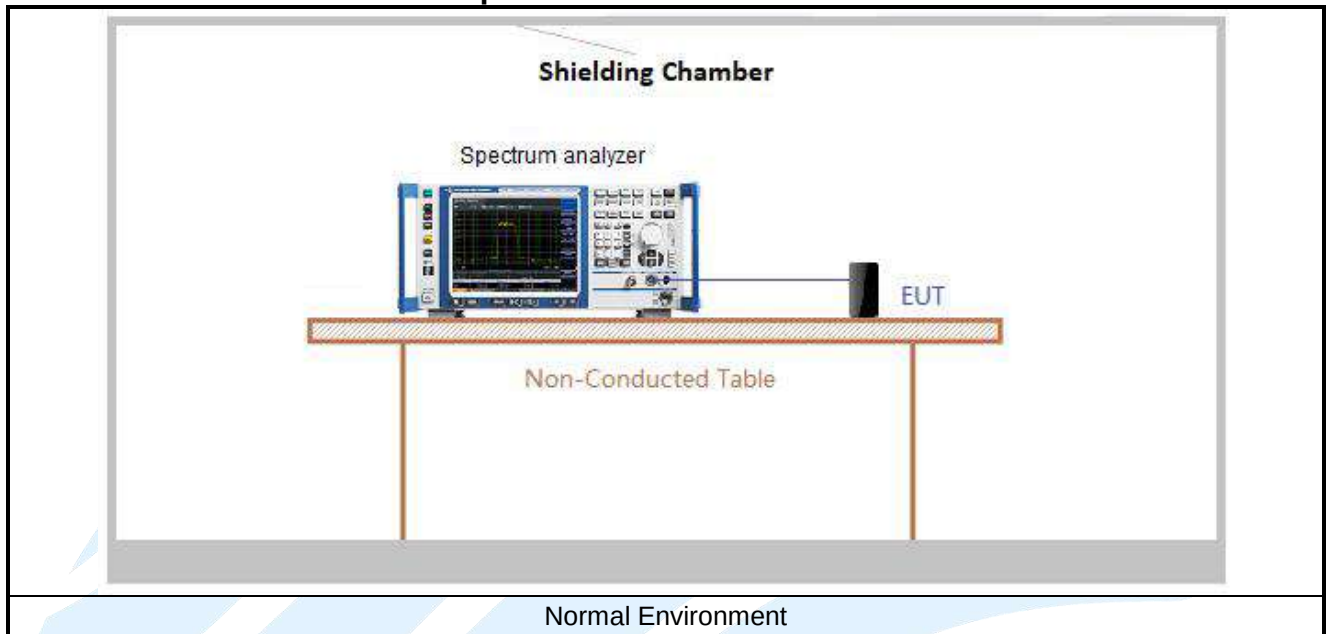




4.5.2 For Conducted Emissions test setup



4.5.3 For Conducted RF test setup



4.6 SYSTEM TEST CONFIGURATION

For emissions testing, the equipment under test (EUT) setup to transmit continuously to simplify the measurement methodology. Care was taken to ensure proper power supply voltages during testing. During testing, radiated emission were performed with the EUT set to transmit at the channel with highest output power as worst-case scenario. Only the worst case data were recorded in this test report.

The signal is maximized through rotation and placement in the three orthogonal axes. The antenna height and polarization are varied during the search for maximum signal level. The antenna height is varied from 1 to 4 meters. Radiated emissions are taken at three meters unless the signal level is too low for measurement at that distance. If necessary, a pre-amplifier is used and/or the test is conducted at a closer distance. Therefore, all final radiated testing was performed with the EUT in orientation.

All readings are extrapolated back to the equivalent three meter reading using inverse scaling with distance. Analyzer resolution is 100 kHz or greater for frequencies below 1000 MHz. The resolution is 1 MHz or greater for frequencies above 1000 MHz. The spurious emissions more than 20 dB below the permissible value are not reported.

Radiated emission measurement were performed from the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.

4.7 DUTY CYCLE

Test Procedure: ANSI C63.10-2020 Clause 12.2.

Test Results

Test Mode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	DC. Factor [%]	1/T
11A	Ant1	5180	0.70	1.12	62.50	2.04	1.43
11A	Ant2	5180	0.70	1.12	62.50	2.04	1.43
11A	Ant1	5260	0.70	1.12	62.50	2.04	1.43
11A	Ant2	5260	0.70	1.12	62.50	2.04	1.43
11A	Ant1	5500	0.70	1.12	62.50	2.04	1.43
11A	Ant2	5500	0.70	1.12	62.50	2.04	1.43
11A	Ant1	5745	0.70	1.12	62.50	2.04	1.43
11A	Ant2	5745	0.71	1.14	62.28	2.06	1.41
11N20MIMO	Ant1	5180	0.33	0.75	44.00	3.57	3.03
11N20MIMO	Ant2	5180	0.33	0.75	44.00	3.57	3.03
11N20MIMO	Ant1	5260	0.33	0.75	44.00	3.57	3.03
11N20MIMO	Ant2	5260	0.33	0.75	44.00	3.57	3.03
11N20MIMO	Ant1	5500	0.33	0.75	44.00	3.57	3.03
11N20MIMO	Ant2	5500	0.33	0.75	44.00	3.57	3.03
11N20MIMO	Ant1	5745	0.33	0.99	33.33	4.77	3.03
11N20MIMO	Ant2	5745	0.34	1.00	34.00	4.69	2.94
11N40MIMO	Ant1	5190	0.31	0.73	42.47	3.72	3.23
11N40MIMO	Ant2	5190	0.31	0.73	42.47	3.72	3.23
11N40MIMO	Ant1	5270	0.31	0.73	42.47	3.72	3.23
11N40MIMO	Ant2	5270	0.31	0.73	42.47	3.72	3.23
11N40MIMO	Ant1	5510	0.31	0.73	42.47	3.72	3.23
11N40MIMO	Ant2	5510	0.31	0.73	42.47	3.72	3.23
11N40MIMO	Ant1	5755	0.31	0.97	31.96	4.95	3.23
11N40MIMO	Ant2	5755	0.31	0.74	41.89	3.78	3.23
11AC20MIMO	Ant1	5180	0.37	0.39	94.87	0.23	2.70
11AC20MIMO	Ant2	5180	0.37	0.38	97.37	0.12	2.70
11AC20MIMO	Ant1	5260	0.36	0.38	94.74	0.23	2.78
11AC20MIMO	Ant2	5260	0.37	0.39	94.87	0.23	2.70
11AC20MIMO	Ant1	5500	0.36	0.38	94.74	0.23	2.78
11AC20MIMO	Ant2	5500	0.36	0.38	94.74	0.23	2.78
11AC20MIMO	Ant1	5745	0.36	0.38	94.74	0.23	2.78
11AC20MIMO	Ant2	5745	0.37	0.39	94.87	0.23	2.70
11AC40MIMO	Ant1	5190	0.35	0.36	97.22	0.12	2.86
11AC40MIMO	Ant2	5190	0.35	0.37	94.59	0.24	2.86
11AC40MIMO	Ant1	5270	0.35	0.37	94.59	0.24	2.86
11AC40MIMO	Ant2	5270	0.35	0.36	97.22	0.12	2.86
11AC40MIMO	Ant1	5510	0.35	0.37	94.59	0.24	2.86
11AC40MIMO	Ant2	5510	0.35	0.36	97.22	0.12	2.86
11AC40MIMO	Ant1	5755	0.35	0.36	97.22	0.12	2.86
11AC40MIMO	Ant2	5755	0.35	0.36	97.22	0.12	2.86
11AC80MIMO	Ant1	5210	0.19	0.21	90.48	0.43	5.26

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11AC80MIM O	Ant2	5210	0.19	0.21	90.48	0.43	5.26
11AC80MIM O	Ant1	5290	0.18	0.20	90.00	0.46	5.56
11AC80MIM O	Ant2	5290	0.19	0.21	90.48	0.43	5.26
11AC80MIM O	Ant1	5530	0.18	0.20	90.00	0.46	5.56
11AC80MIM O	Ant2	5530	0.19	0.21	90.48	0.43	5.26
11AC80MIM O	Ant1	5775	0.19	0.20	95.00	0.22	5.26
11AC80MIM O	Ant2	5775	0.18	0.20	90.00	0.46	5.56
11AX20MIM O	Ant1	5180	0.64	1.06	60.38	2.19	1.56
11AX20MIM O	Ant2	5180	0.65	1.06	61.32	2.12	1.54
11AX20MIM O	Ant1	5260	0.64	1.06	60.38	2.19	1.56
11AX20MIM O	Ant2	5260	0.64	1.05	60.95	2.15	1.56
11AX20MIM O	Ant1	5500	0.64	1.05	60.95	2.15	1.56
11AX20MIM O	Ant2	5500	0.64	1.06	60.38	2.19	1.56
11AX20MIM O	Ant1	5745	0.64	1.06	60.38	2.19	1.56
11AX20MIM O	Ant2	5745	0.64	1.05	60.95	2.15	1.56
11AX40MIM O	Ant1	5190	0.64	1.06	60.38	2.19	1.56
11AX40MIM O	Ant2	5190	0.64	1.05	60.95	2.15	1.56
11AX40MIM O	Ant1	5270	0.64	1.06	60.38	2.19	1.56
11AX40MIM O	Ant2	5270	0.64	1.06	60.38	2.19	1.56
11AX40MIM O	Ant1	5510	0.64	1.06	60.38	2.19	1.56
11AX40MIM O	Ant2	5510	0.64	1.05	60.95	2.15	1.56
11AX40MIM O	Ant1	5755	0.64	1.06	60.38	2.19	1.56
11AX40MIM O	Ant2	5755	0.64	1.06	60.38	2.19	1.56
11AX80MIM O	Ant1	5210	0.61	1.02	59.80	2.23	1.64
11AX80MIM O	Ant2	5210	0.61	1.02	59.80	2.23	1.64
11AX80MIM O	Ant1	5290	0.61	1.03	59.22	2.28	1.64
11AX80MIM O	Ant2	5290	0.61	1.03	59.22	2.28	1.64
11AX80MIM O	Ant1	5530	0.61	1.03	59.22	2.28	1.64
11AX80MIM O	Ant2	5530	0.61	1.03	59.22	2.28	1.64
11AX80MIM O	Ant1	5775	0.61	1.02	59.80	2.23	1.64
11AX80MIM O	Ant2	5775	0.61	1.37	44.53	3.51	1.64

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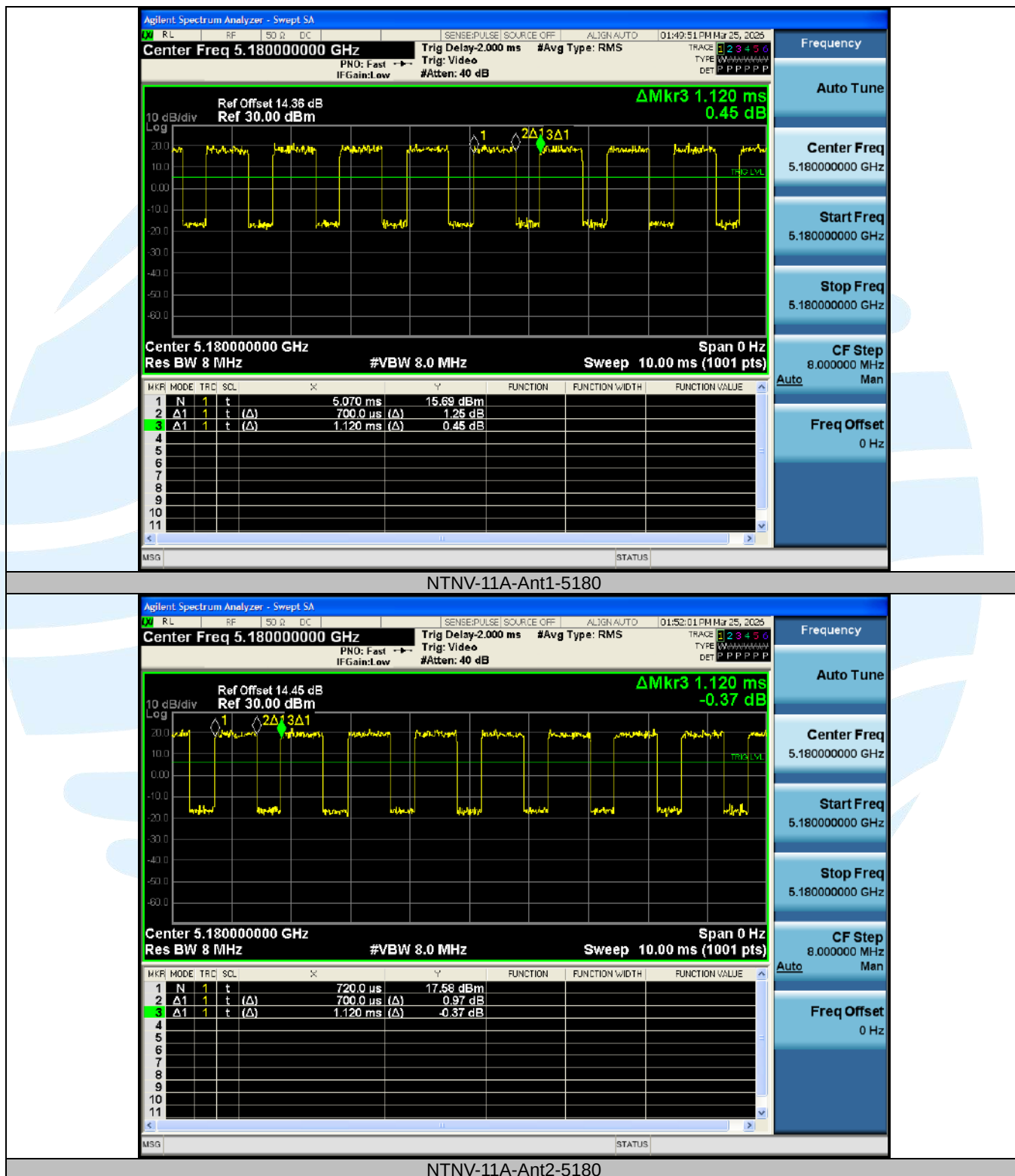
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Remark:

- 1) Duty cycle= On Time/ Period;
- 2) Duty Cycle factor = $10 * \log(1/\text{Duty cycle})$

The test plots as follows


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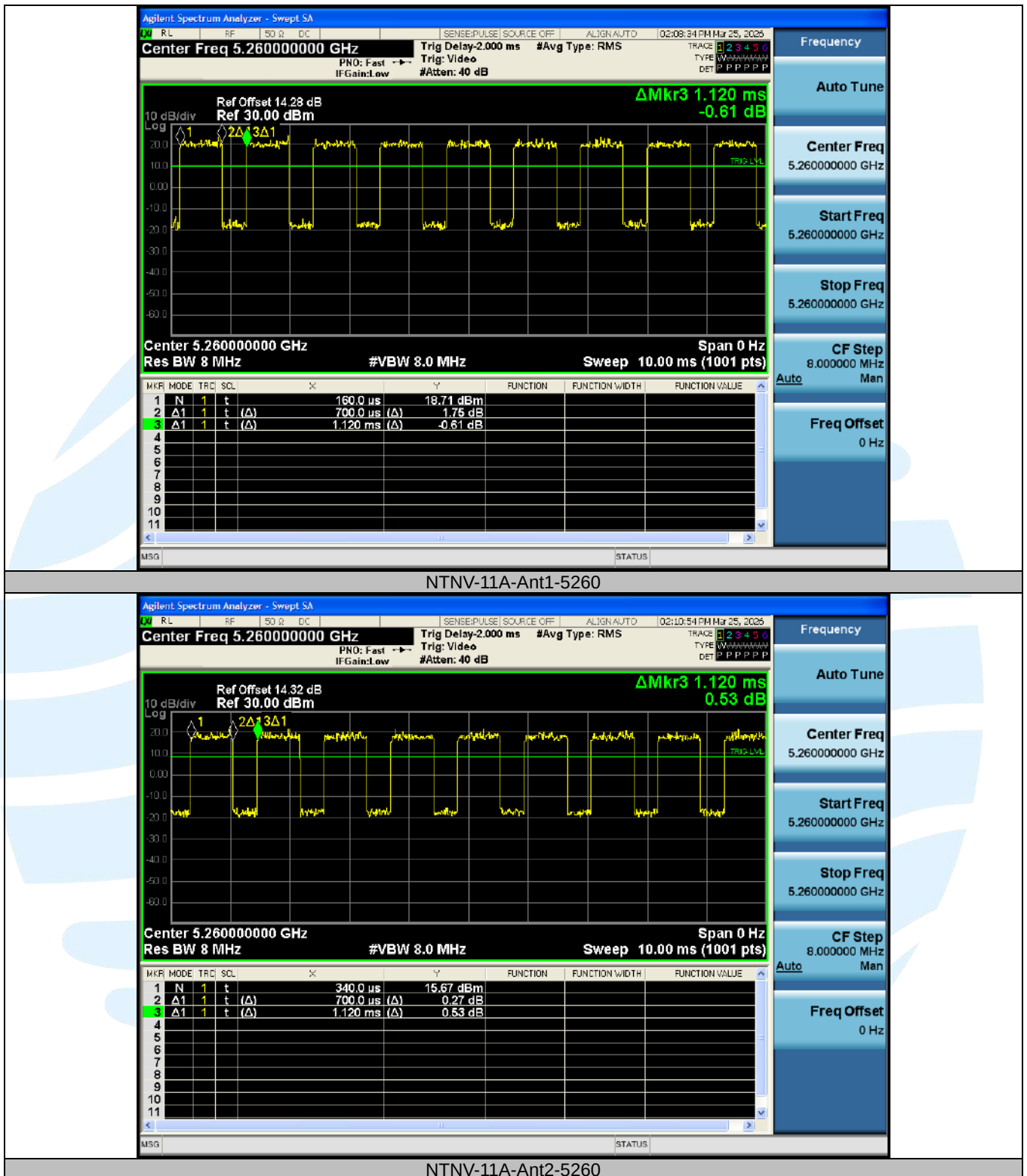
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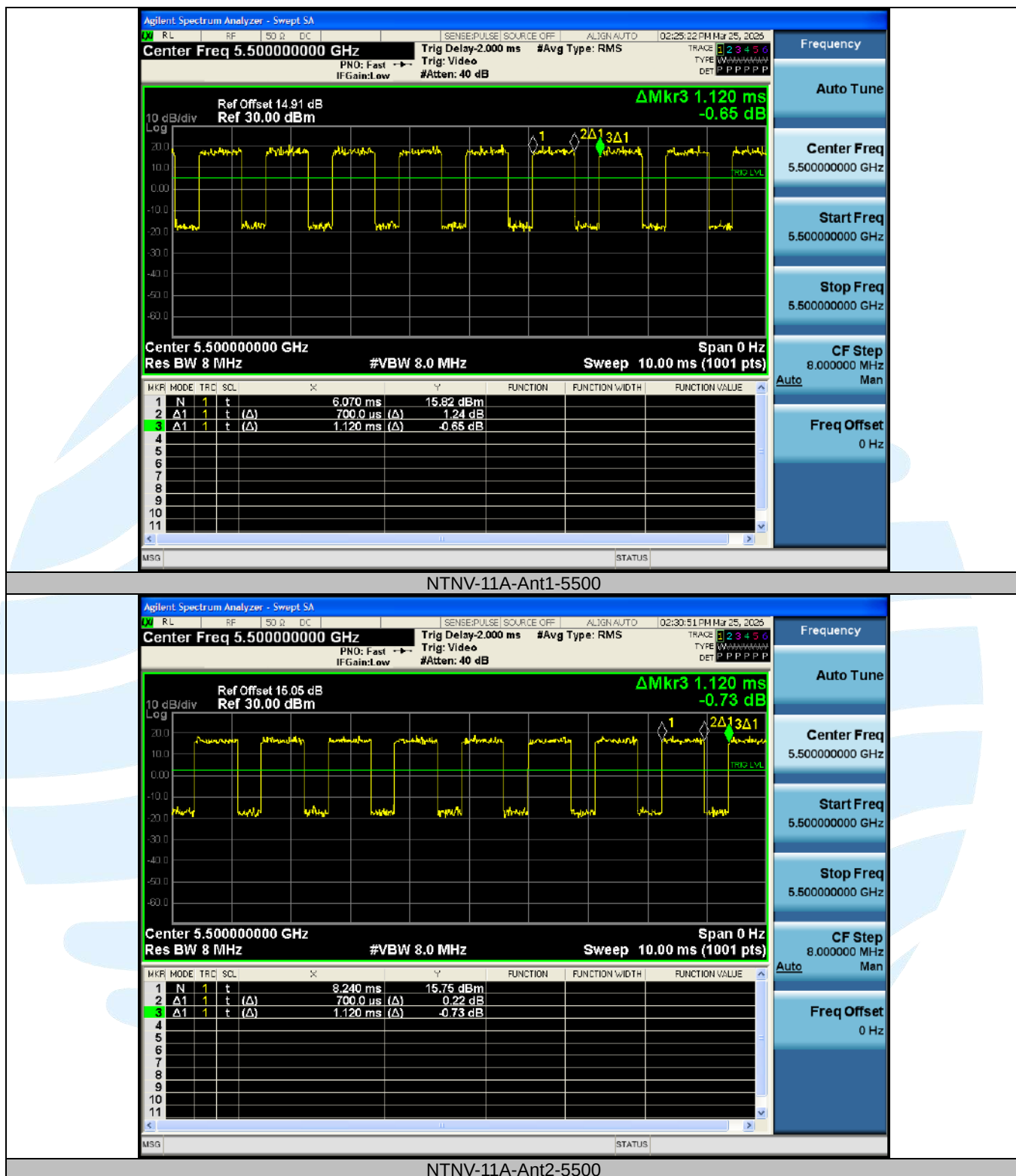
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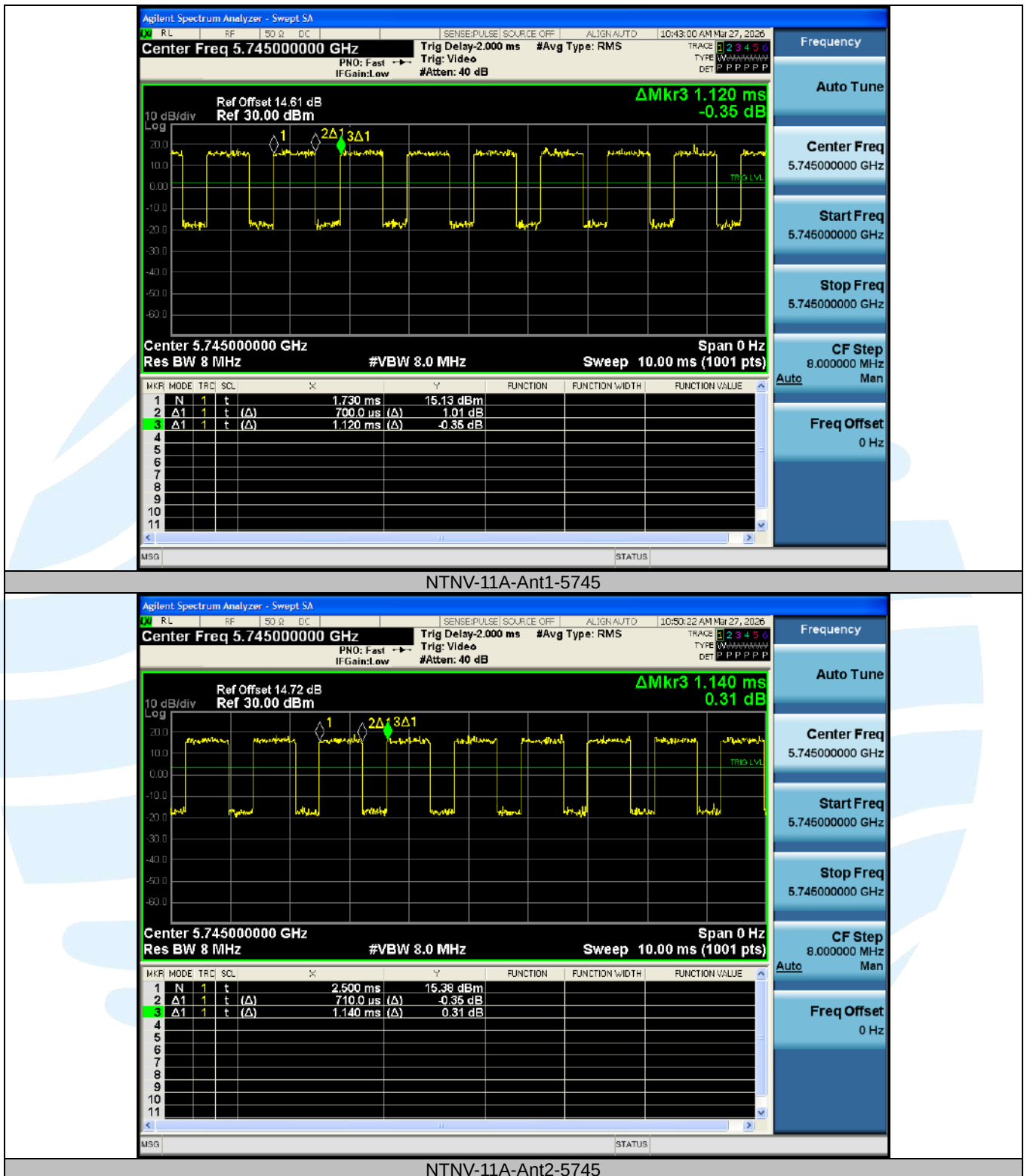
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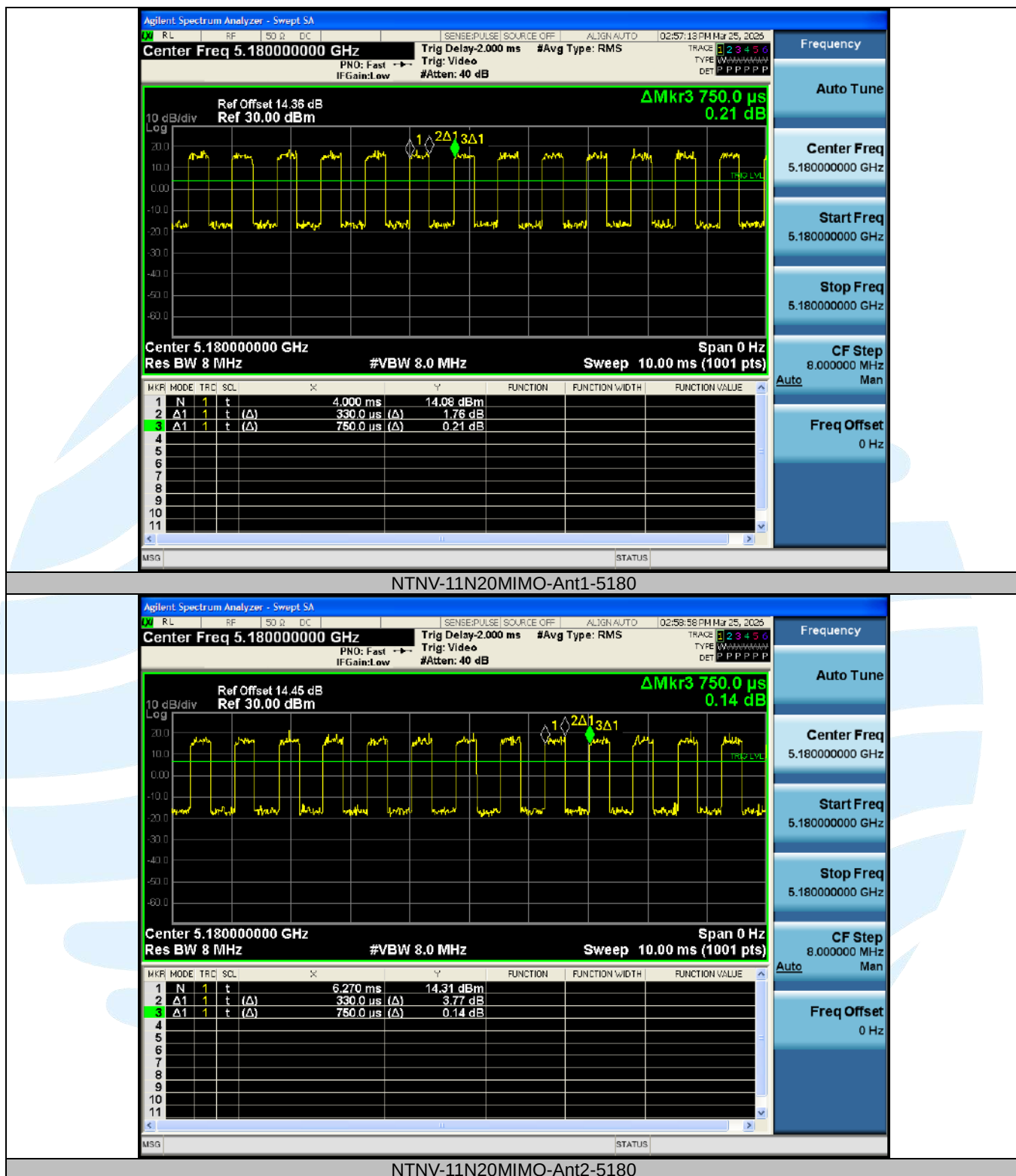
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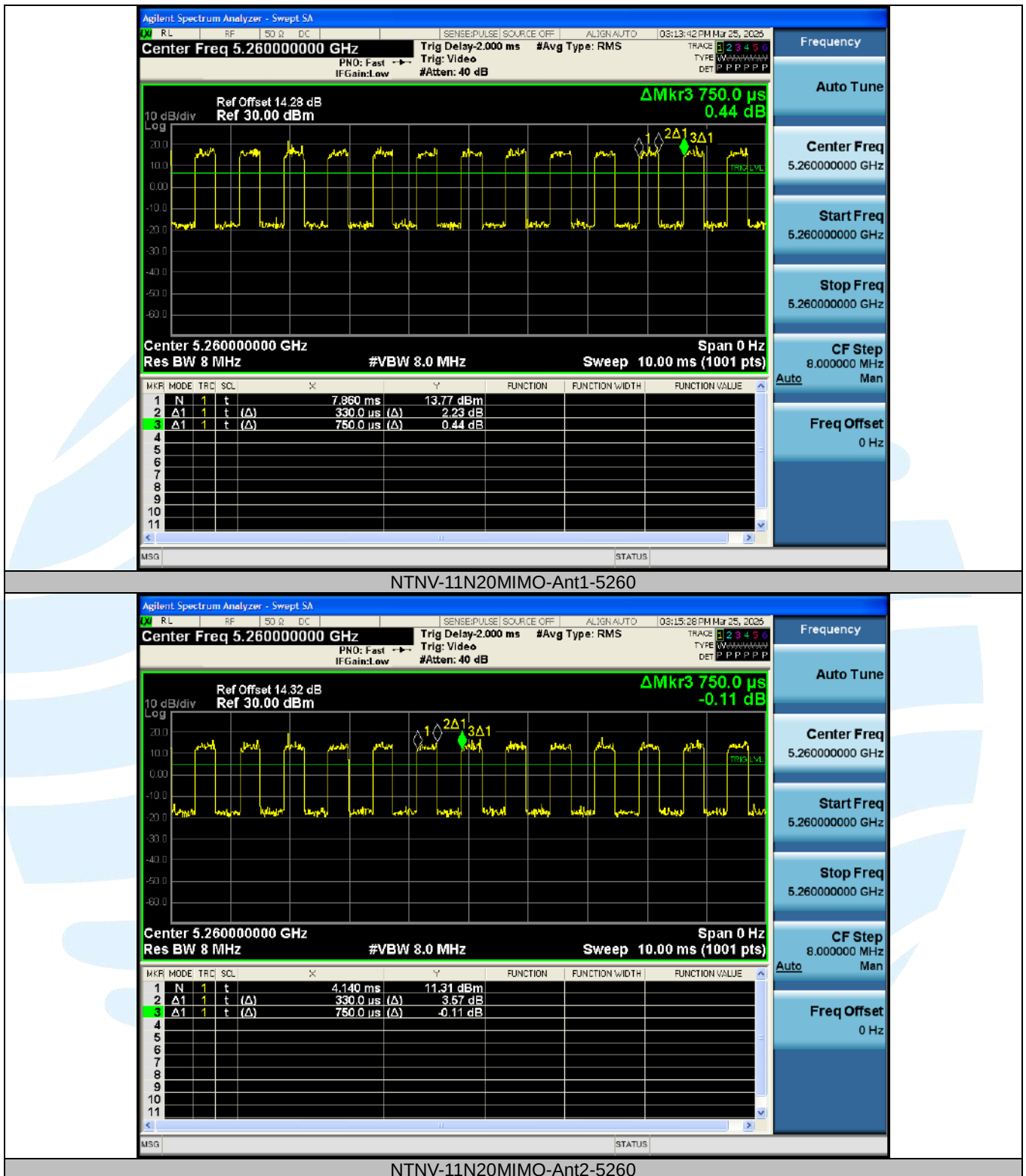
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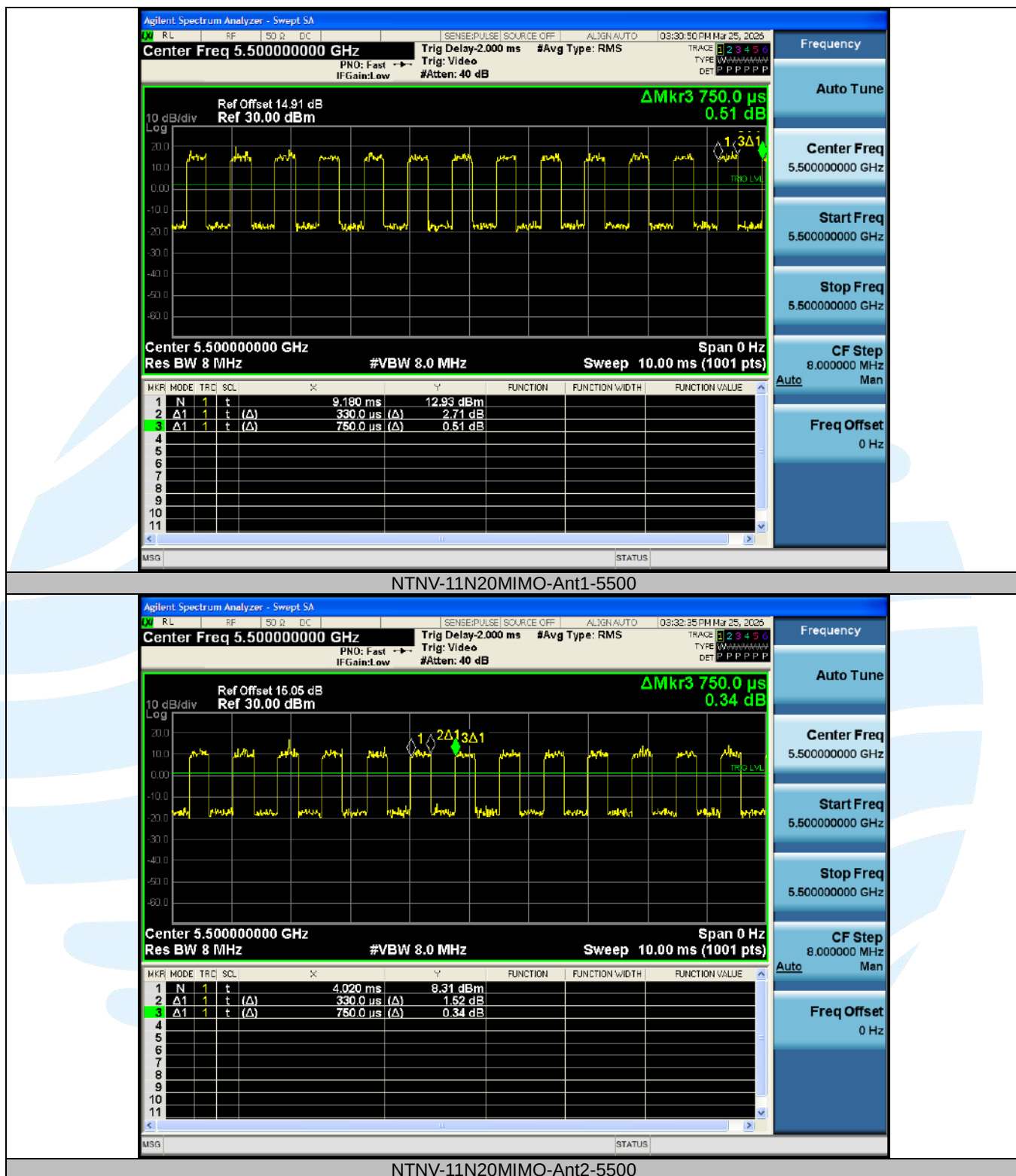
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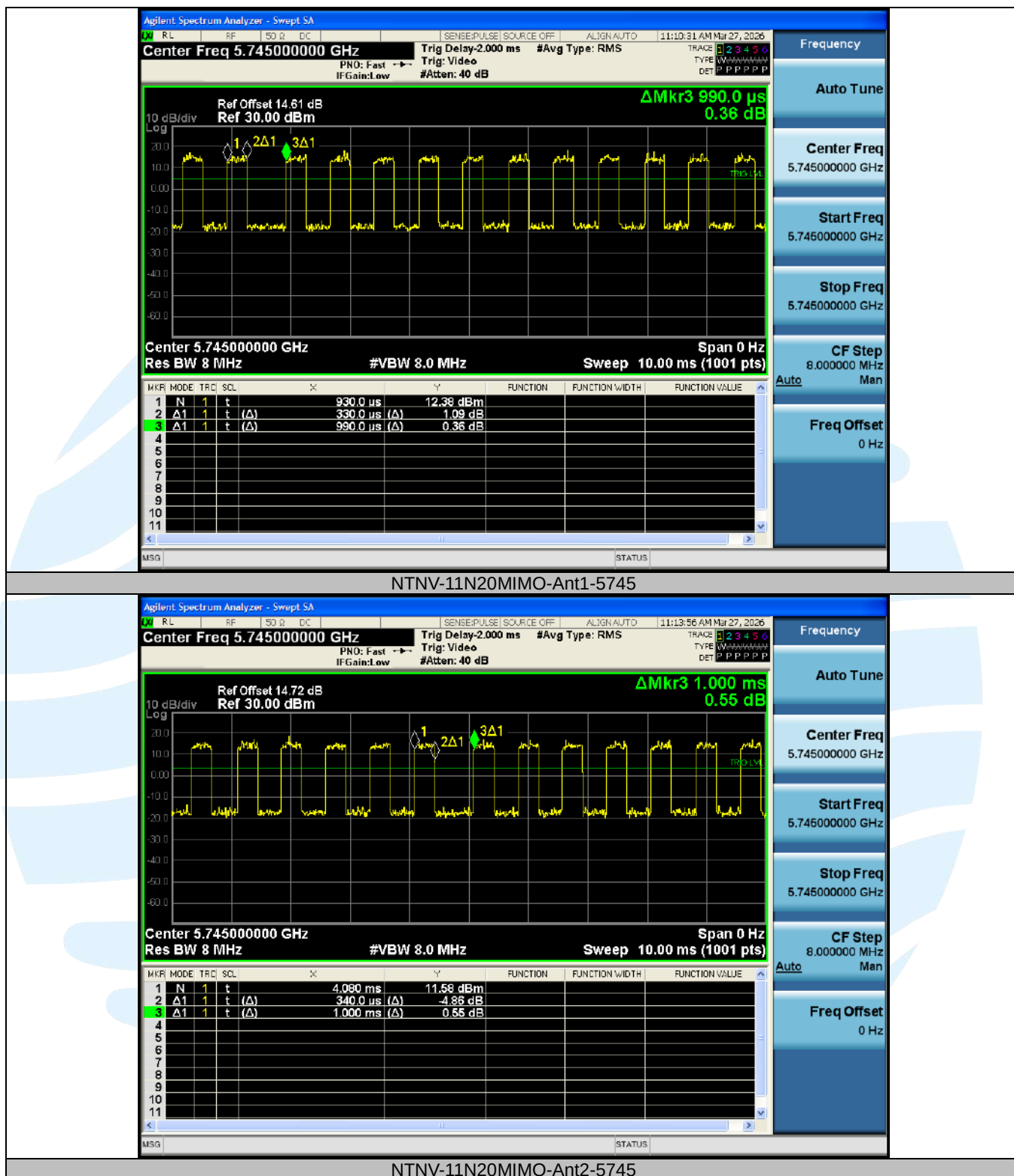
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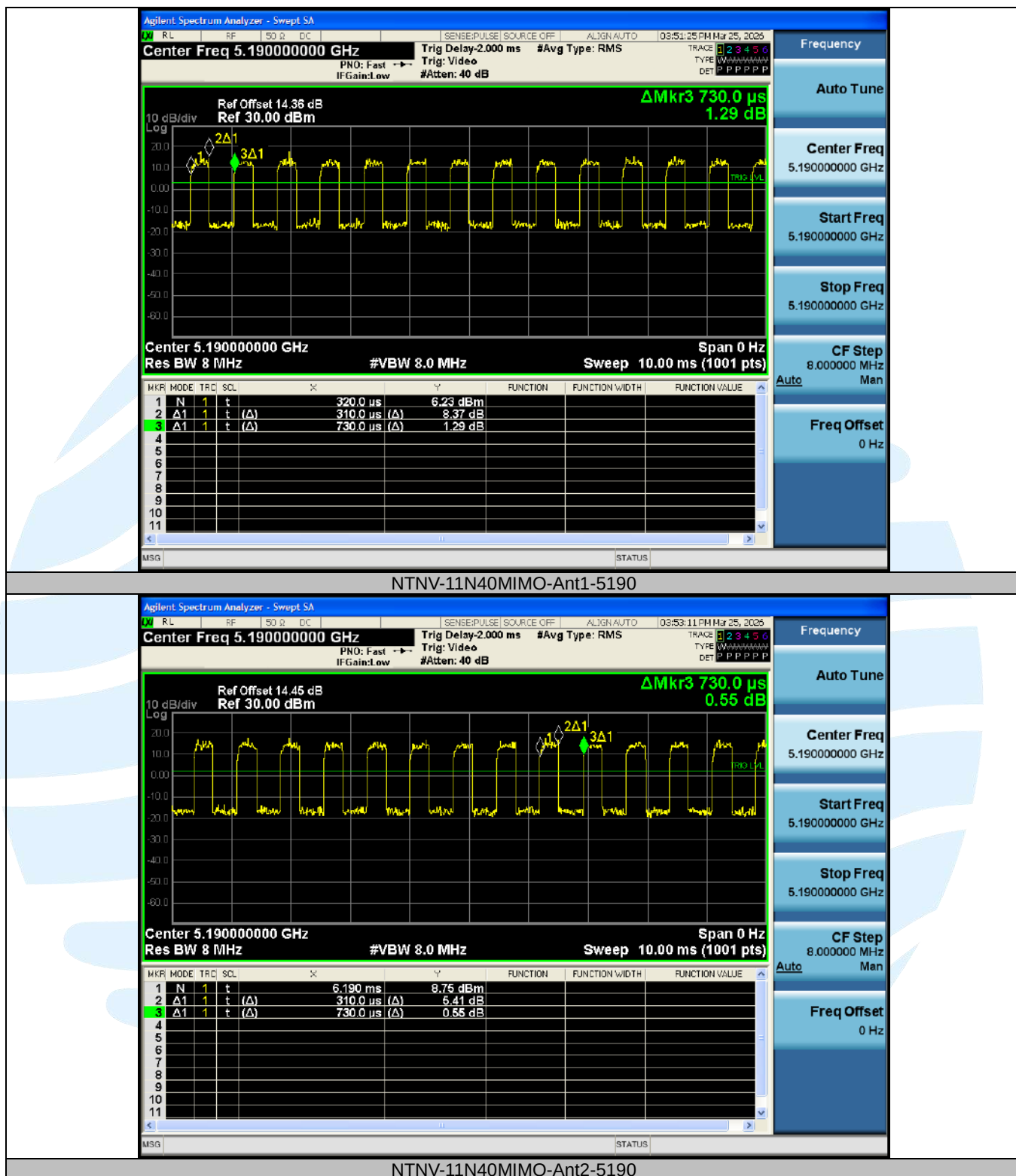
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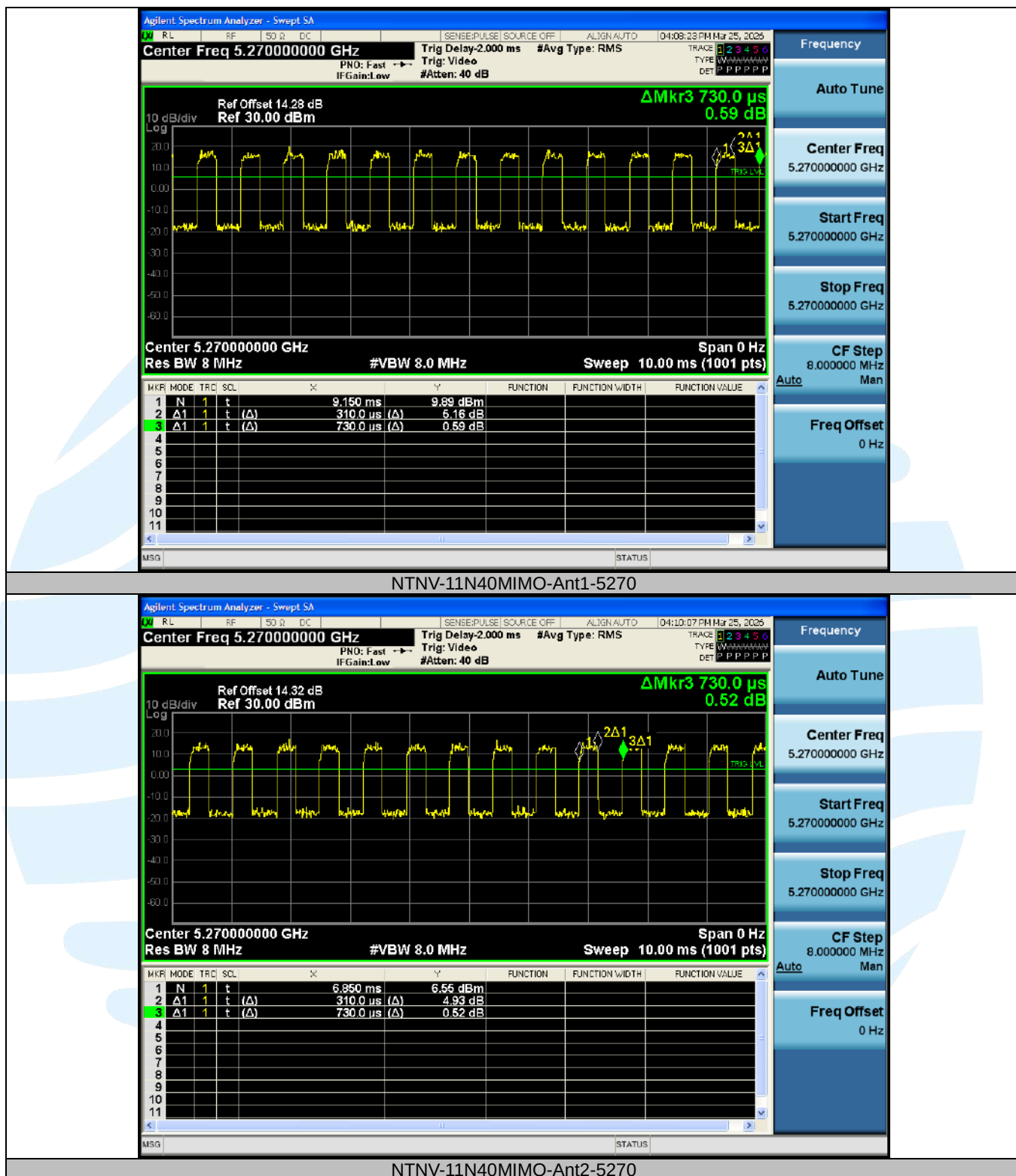
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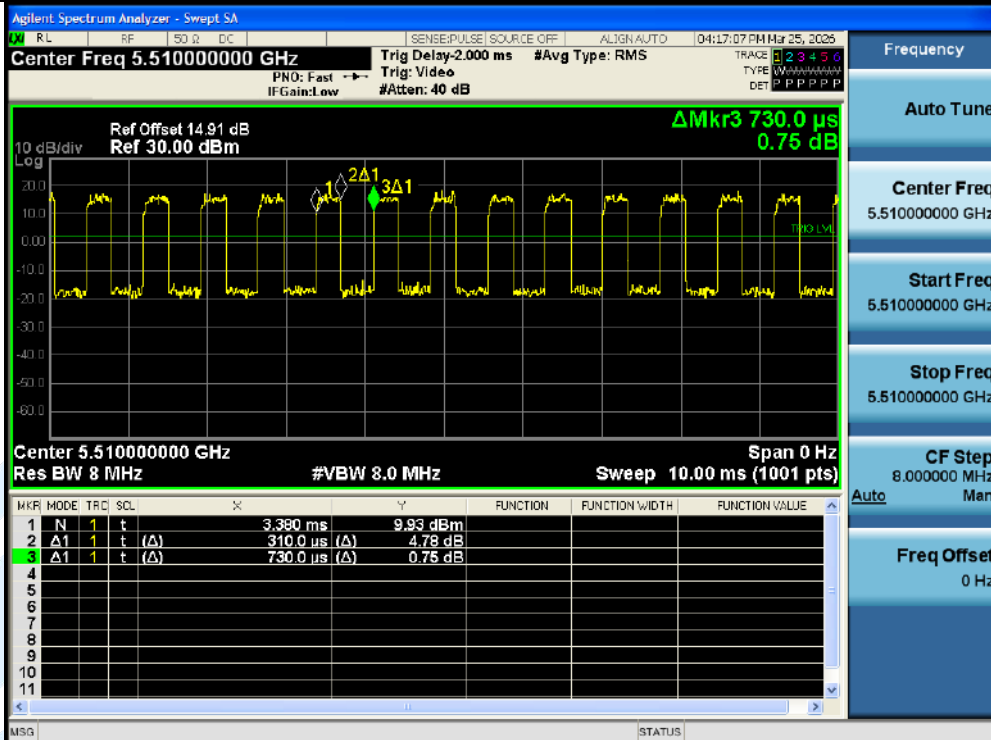
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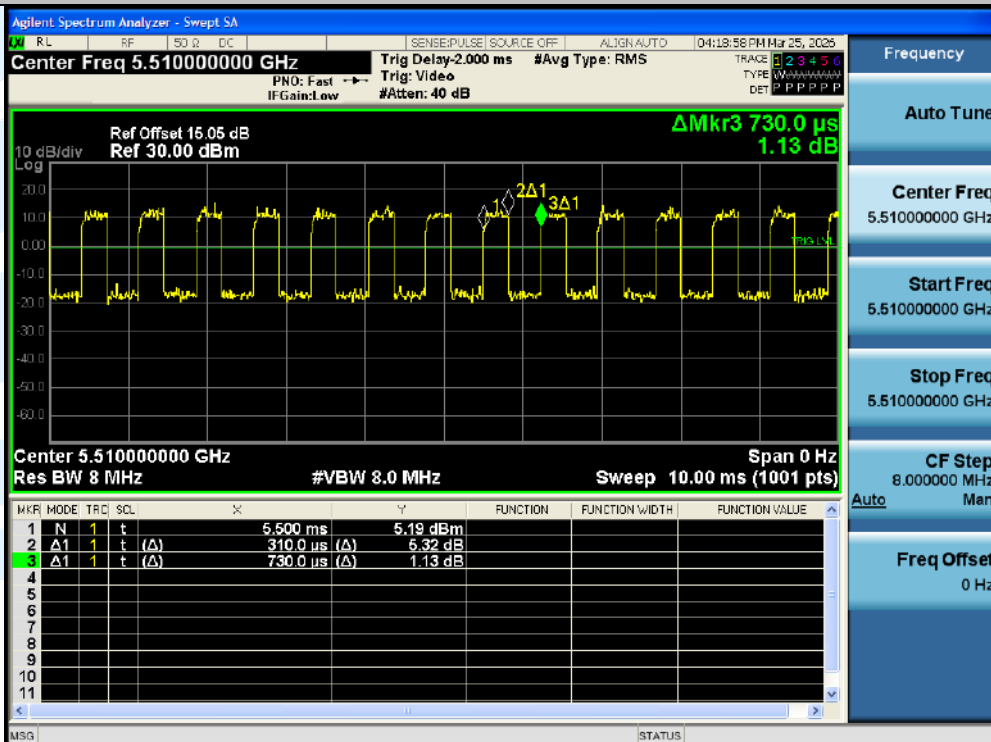
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NTNV-11N40MIMO-Ant1-5510



NTNV-11N40MIMO-Ant2-5510

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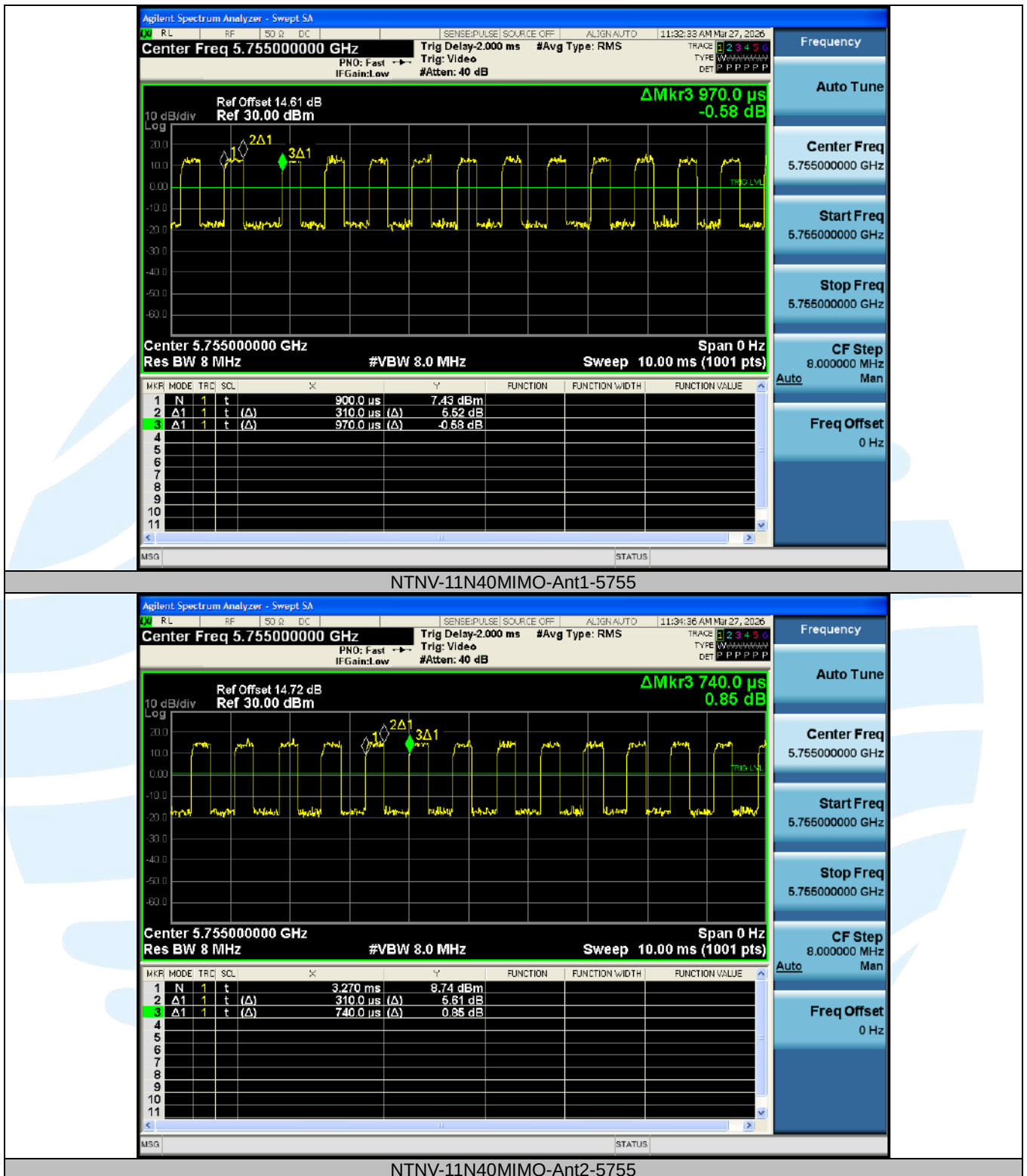
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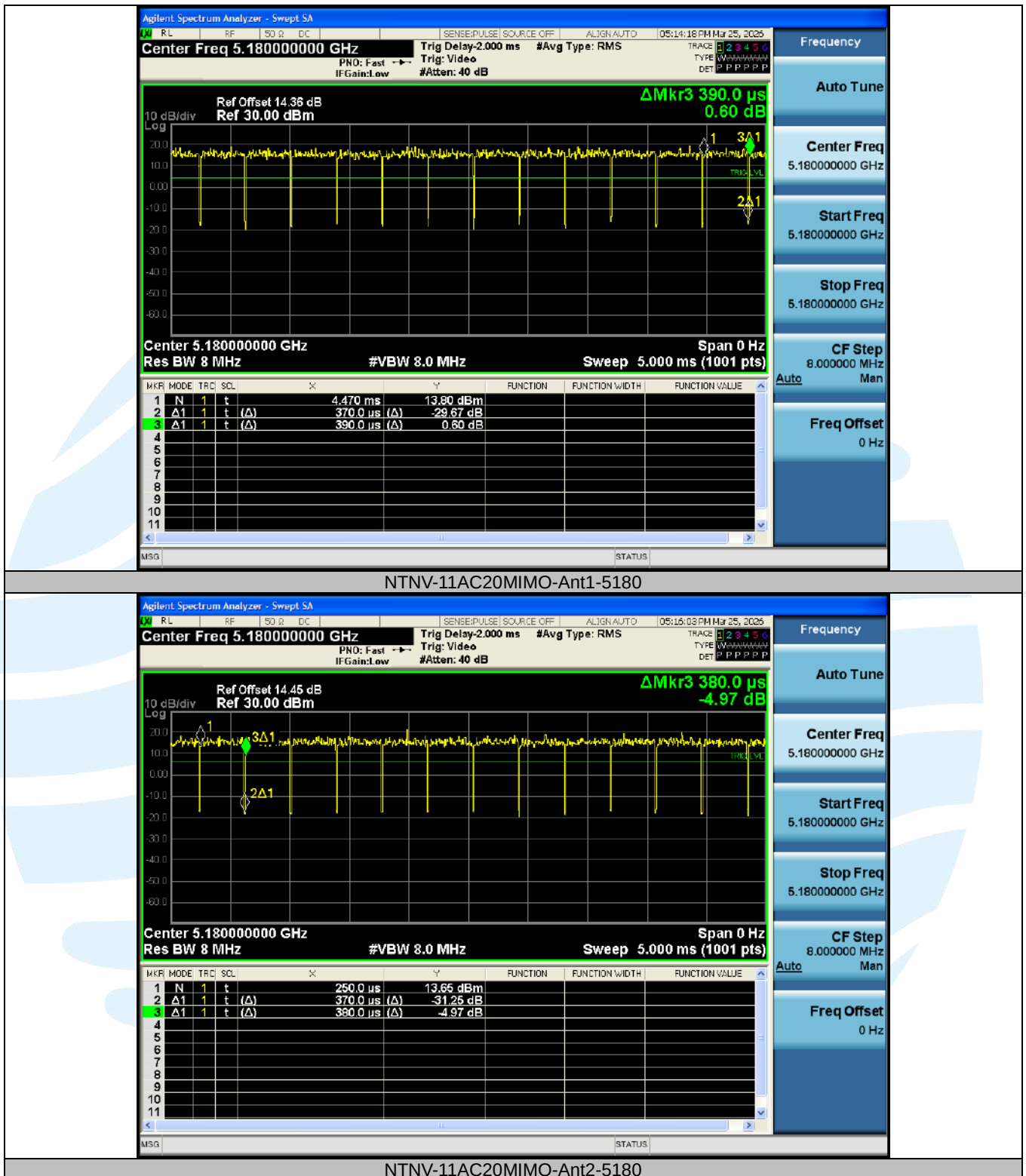
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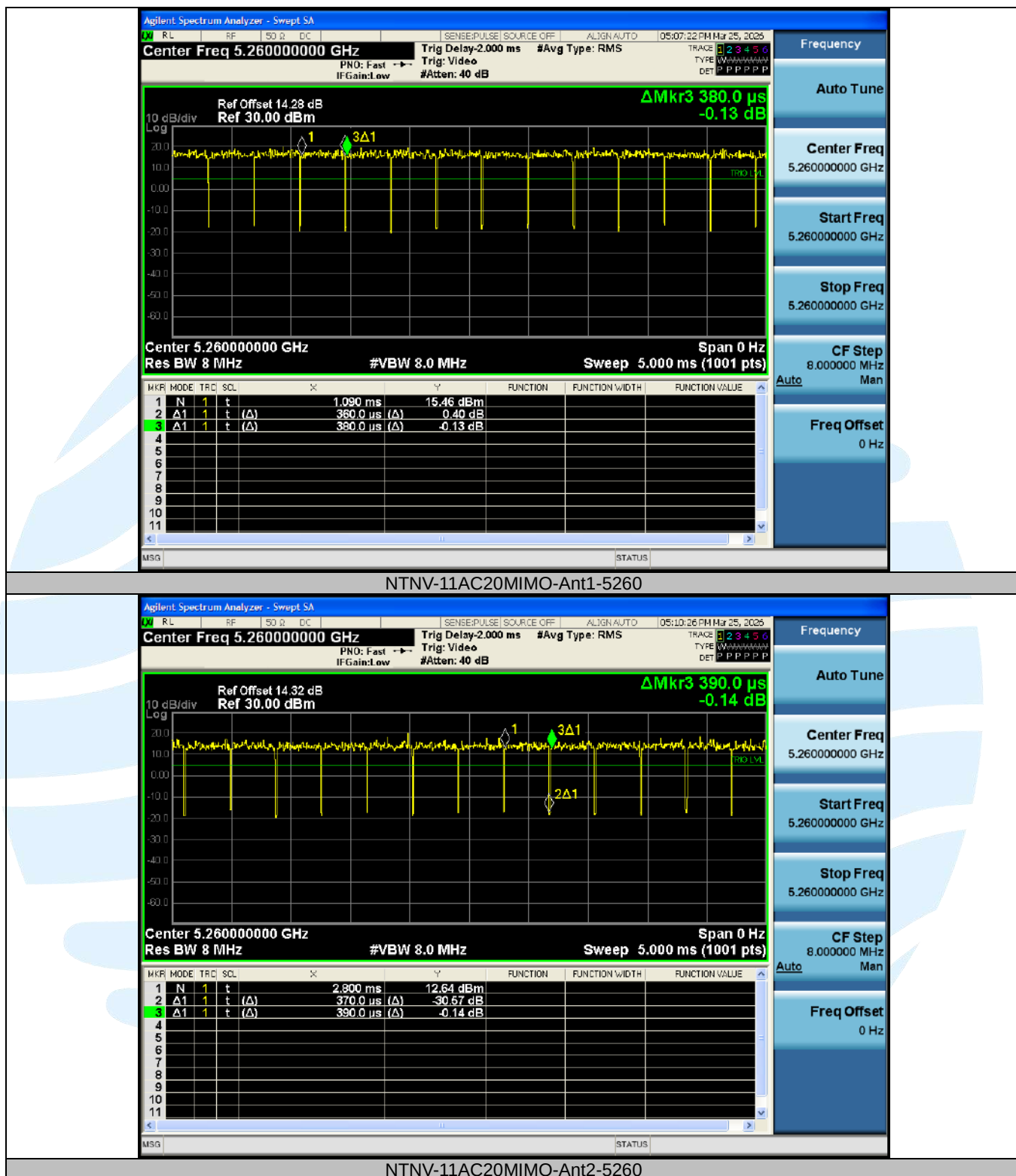
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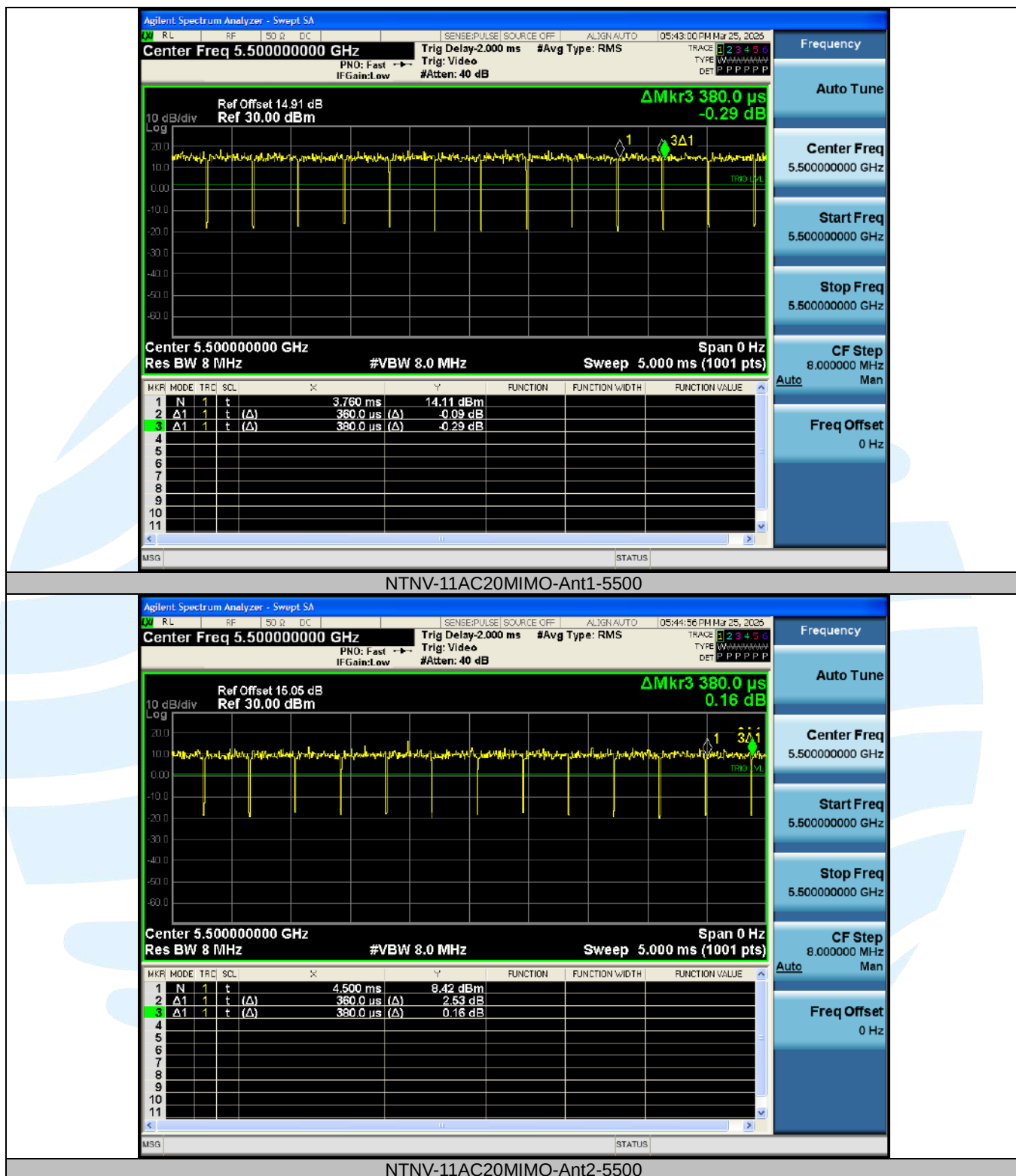
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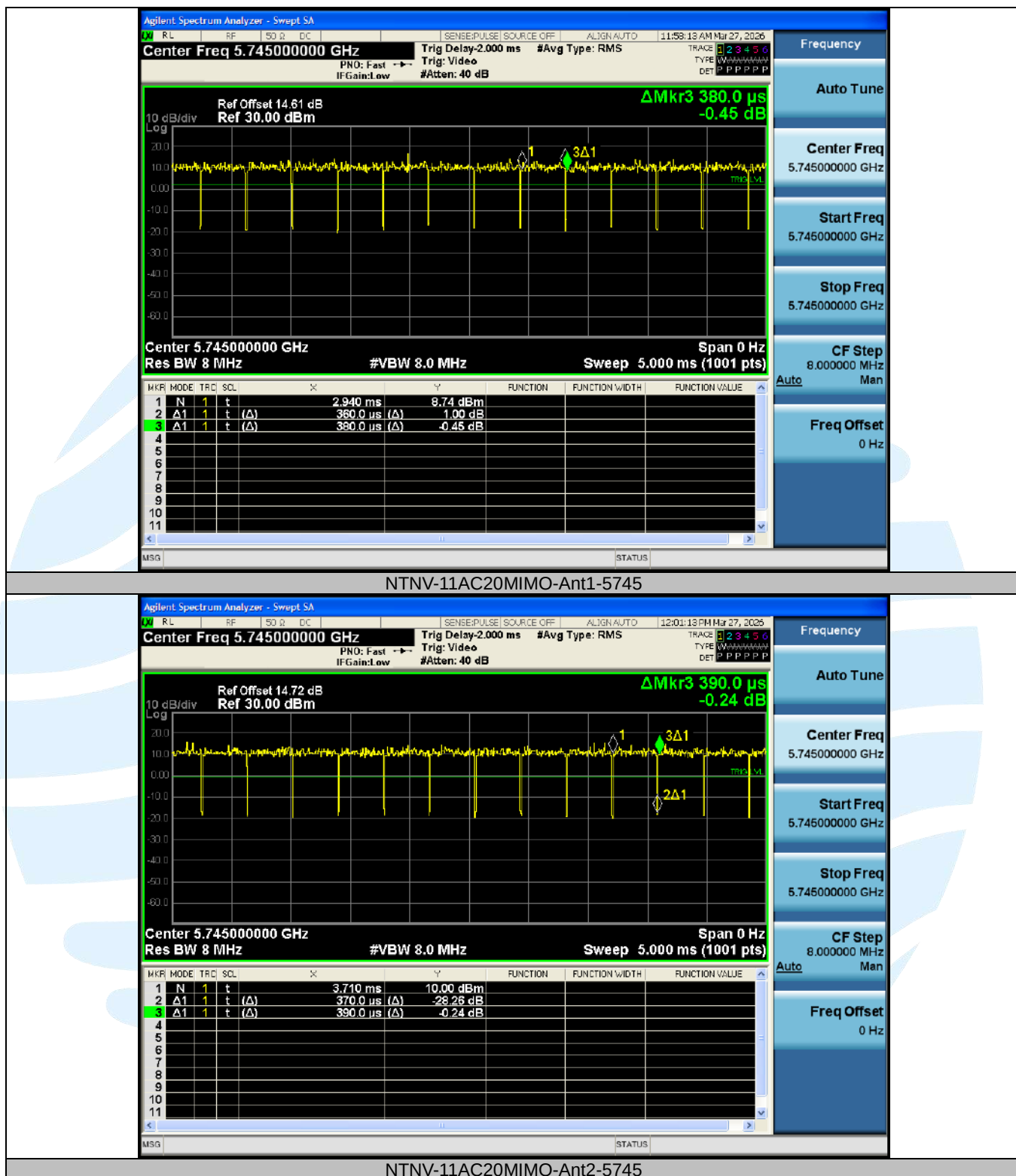
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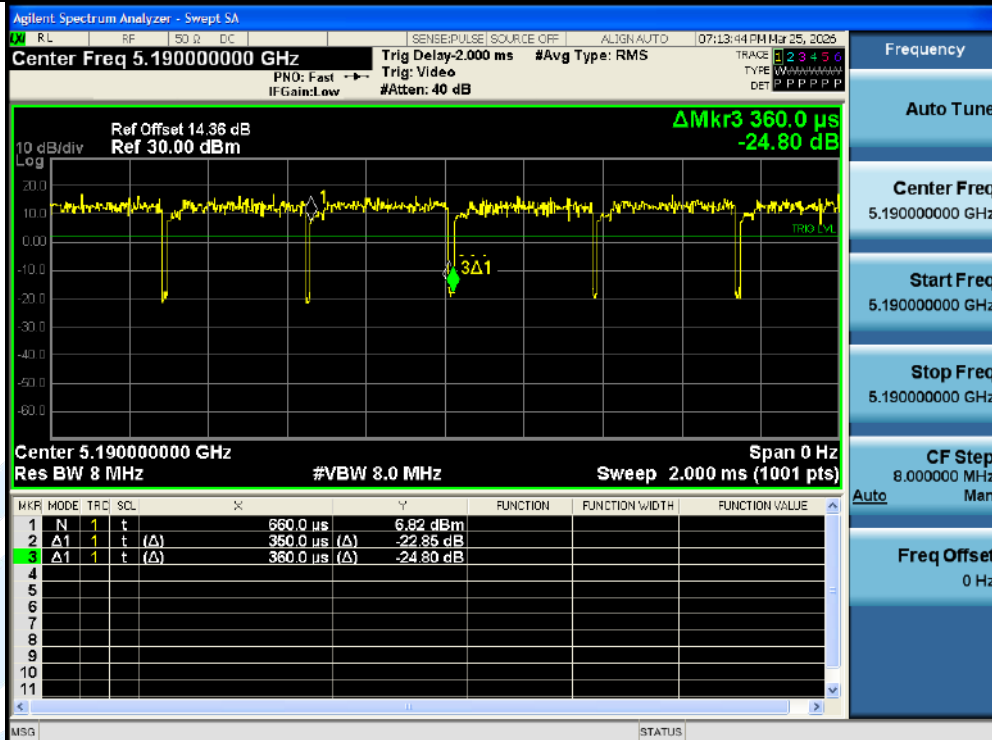
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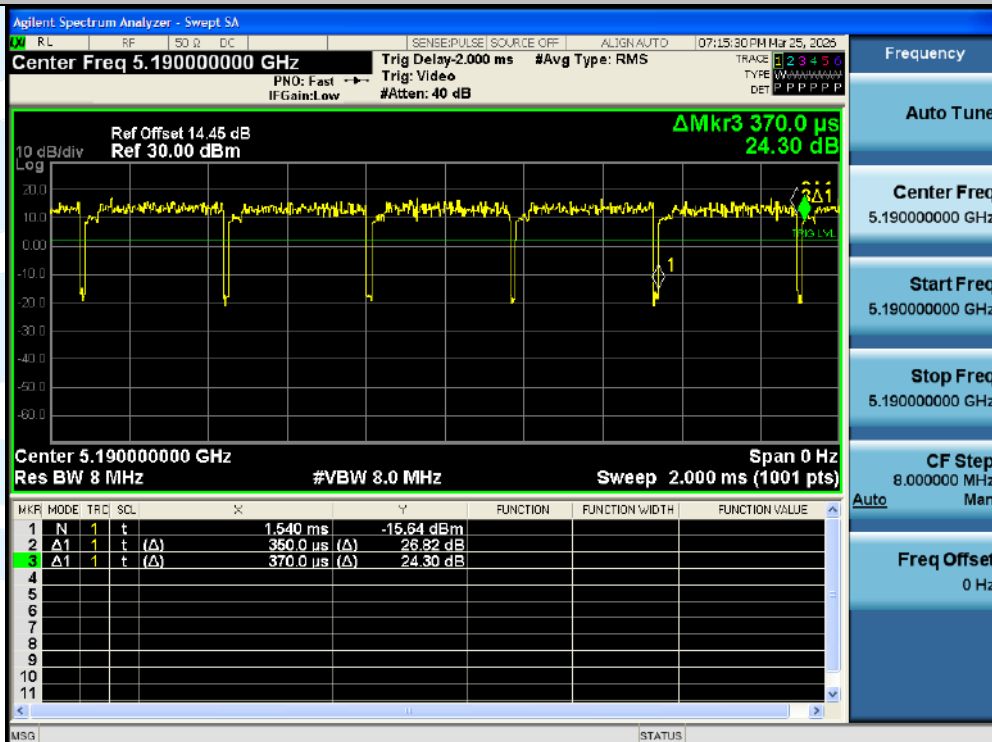
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NTNV-11AC40MIMO-Ant1-5190



NTNV-11AC40MIMO-Ant2-5190

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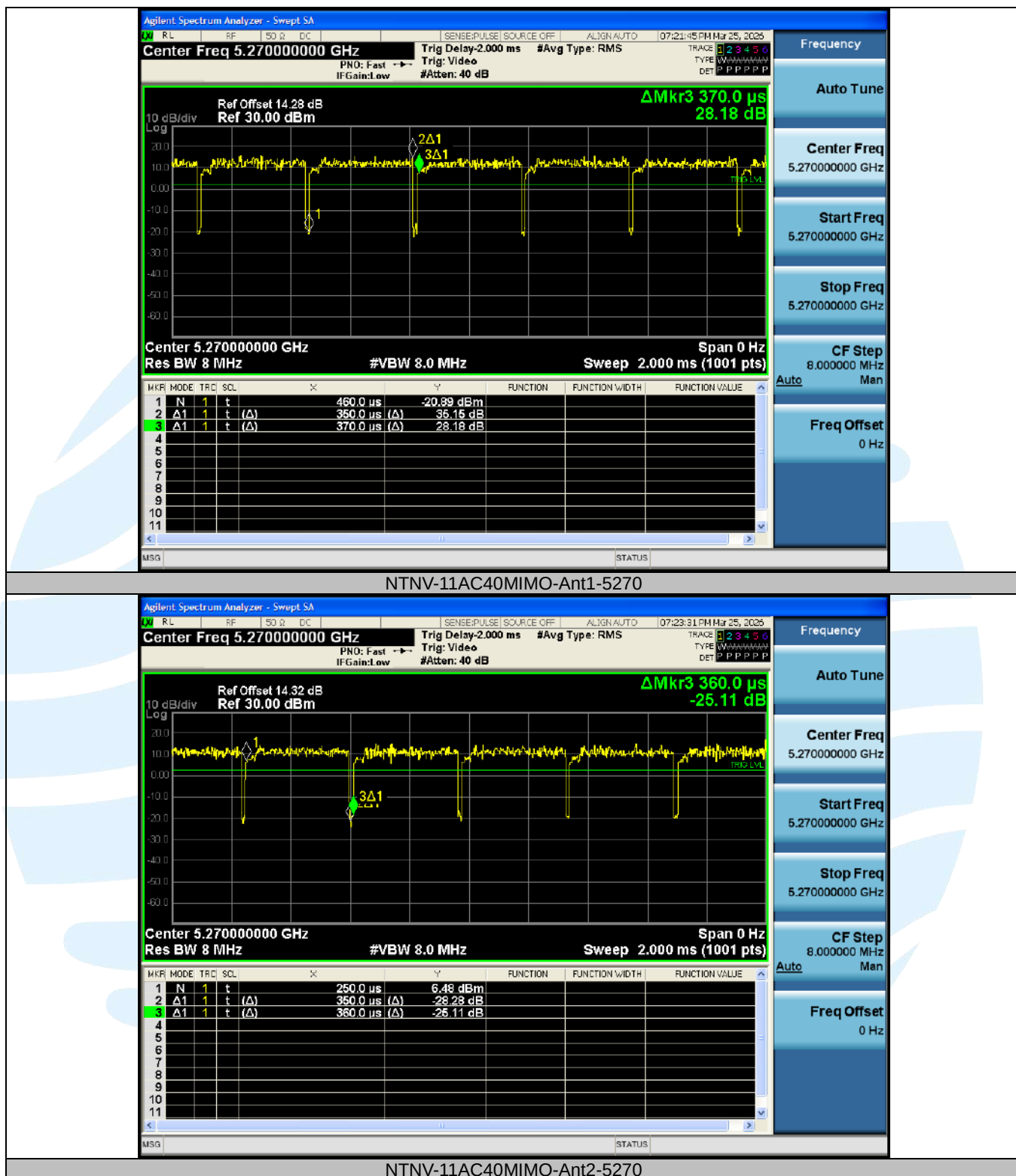
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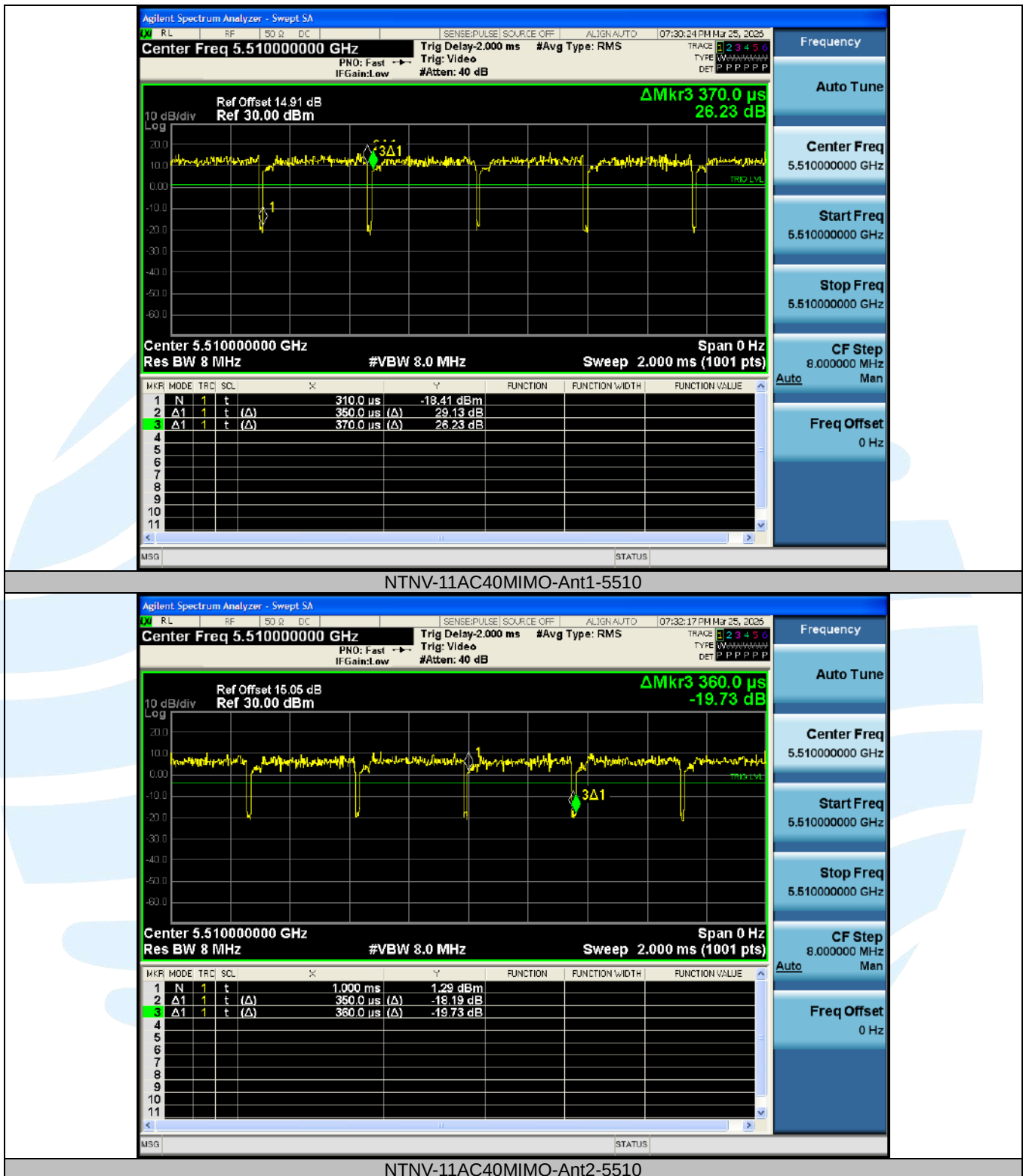
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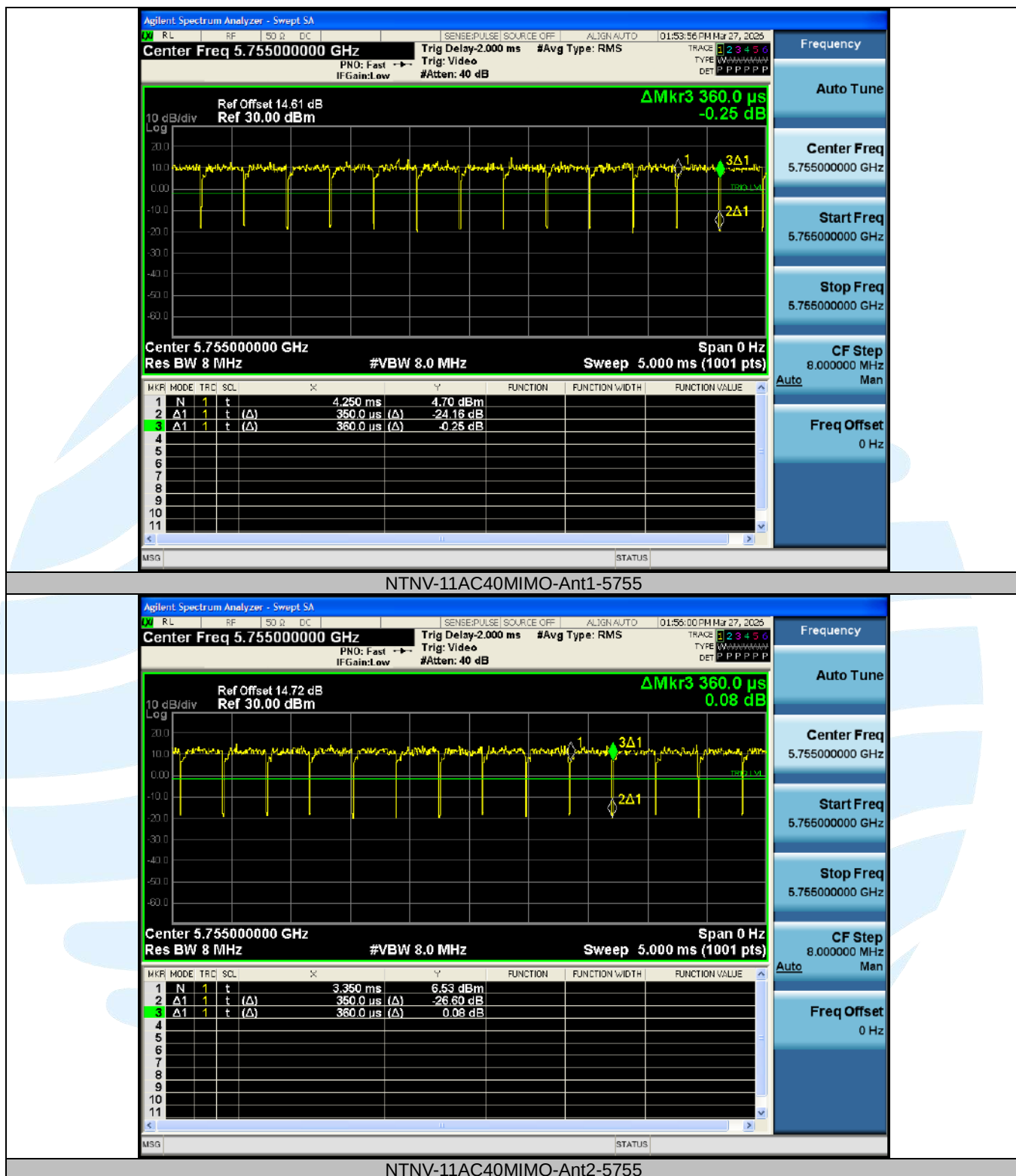
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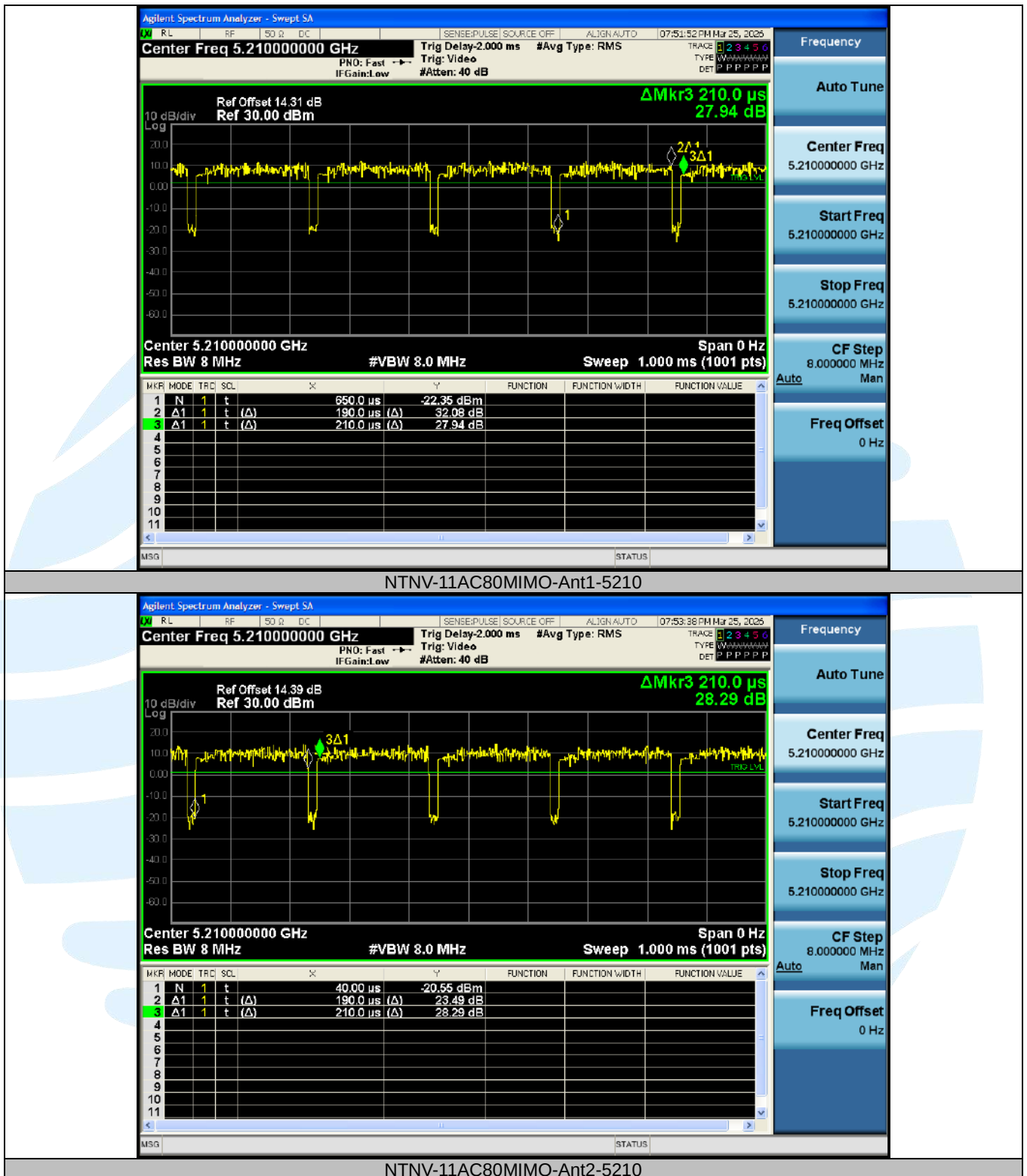
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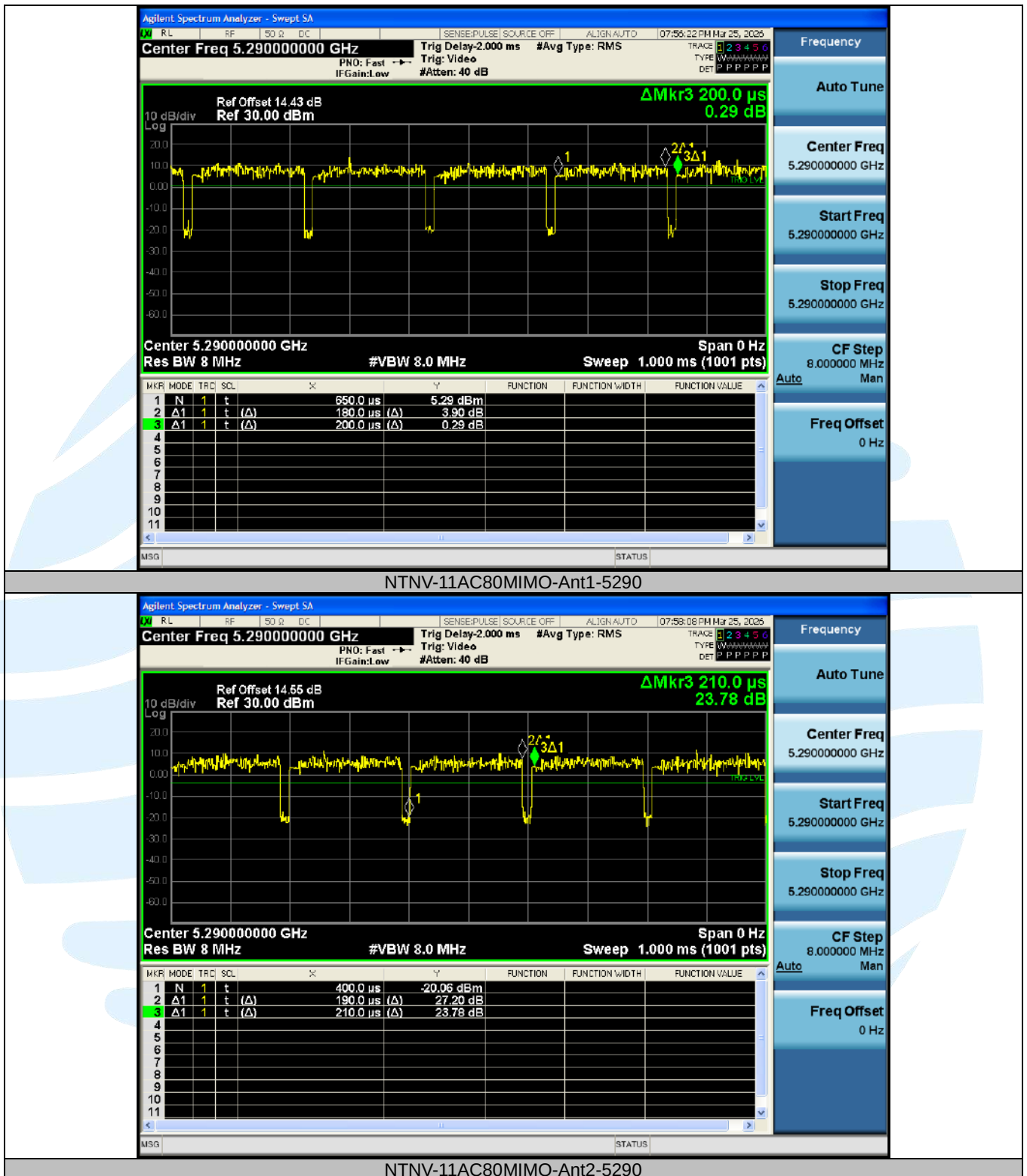
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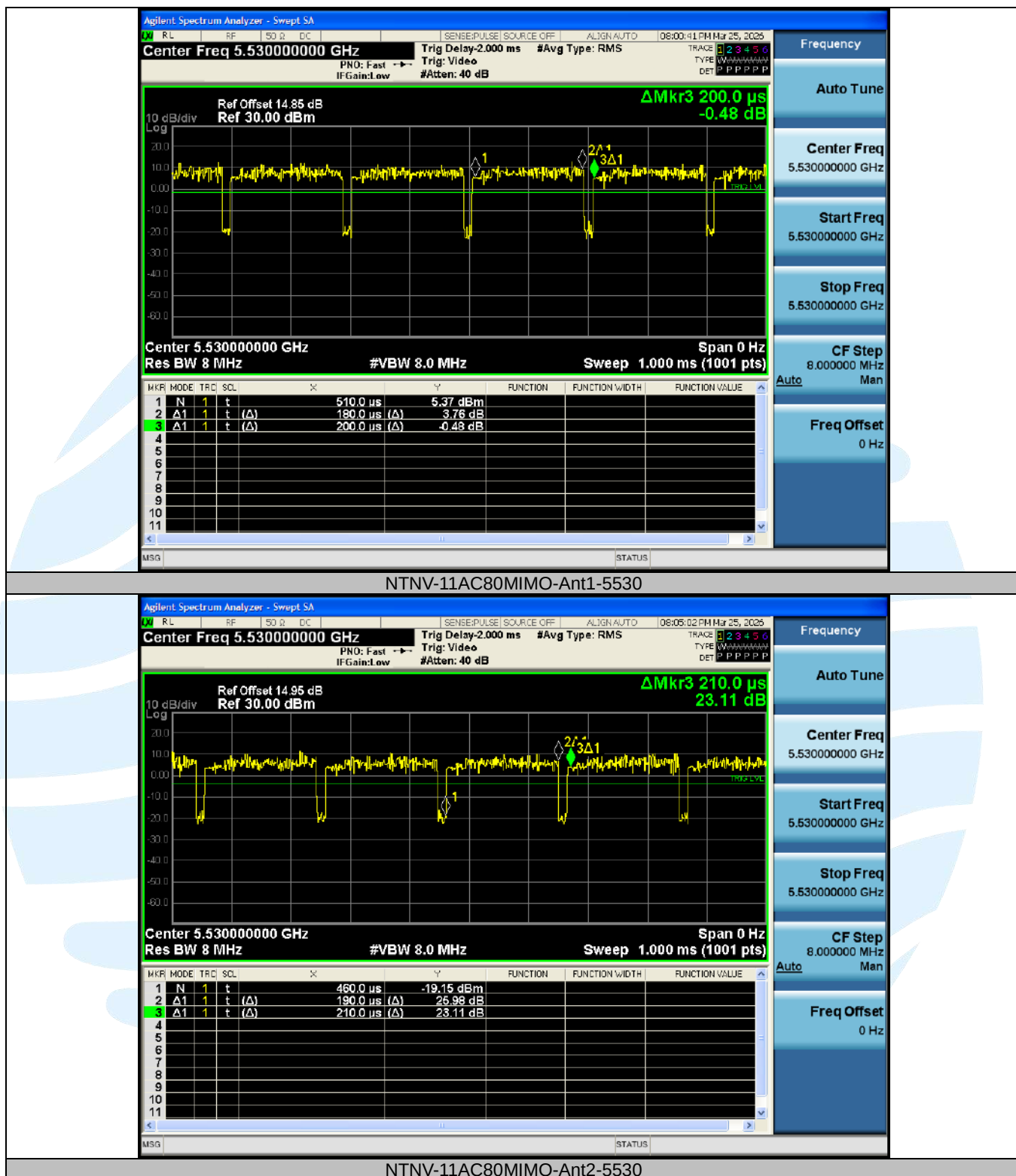
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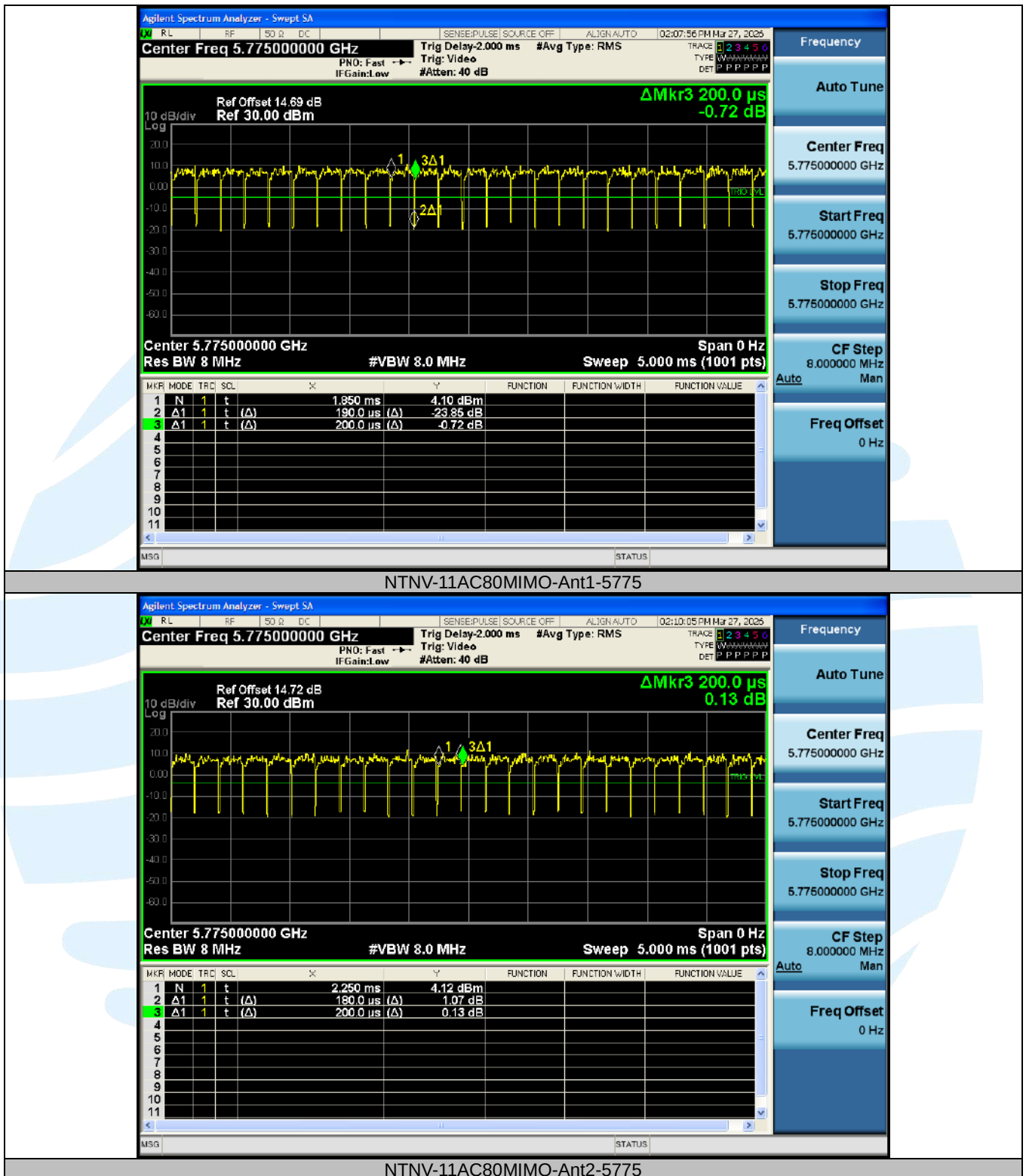
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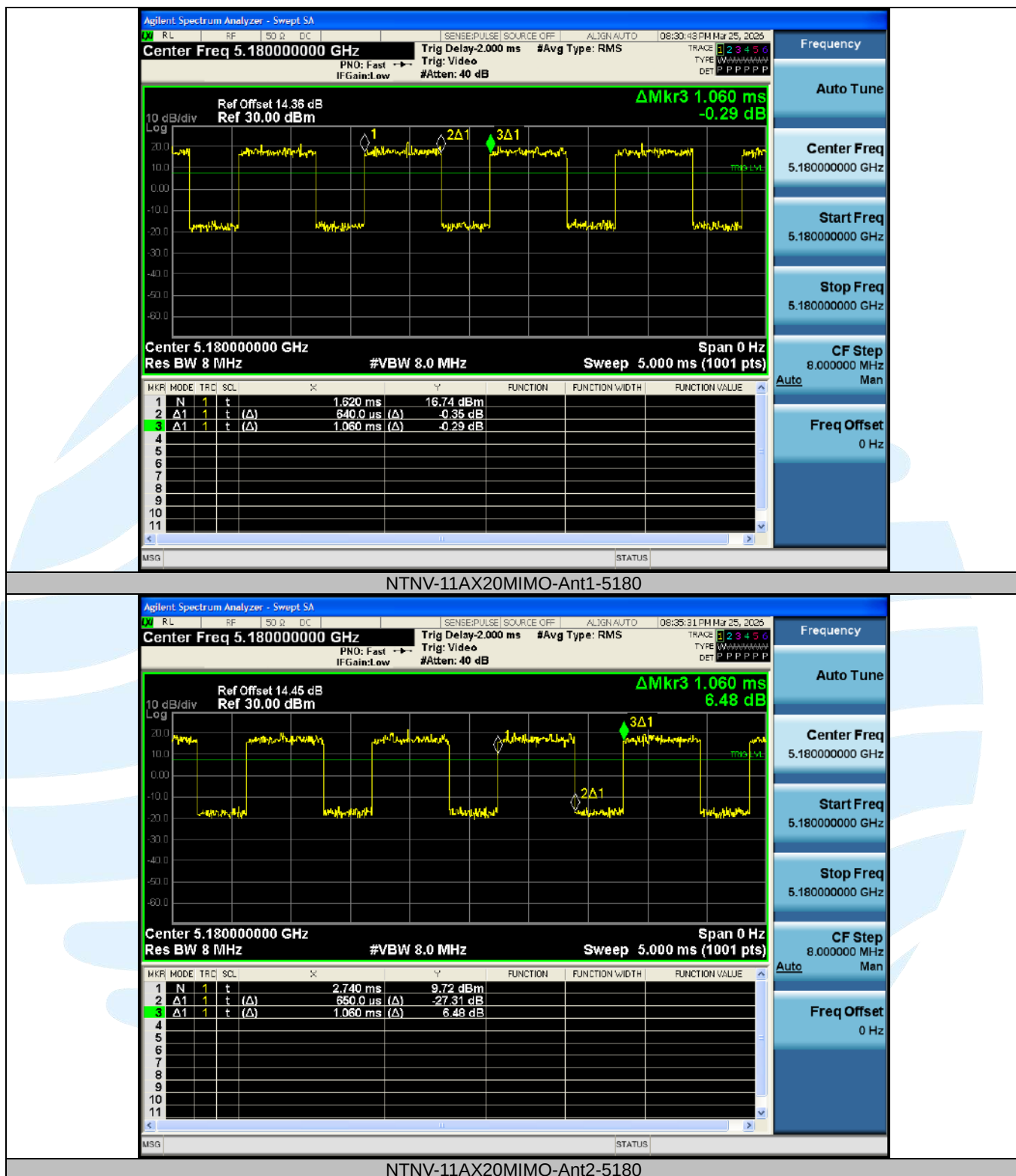
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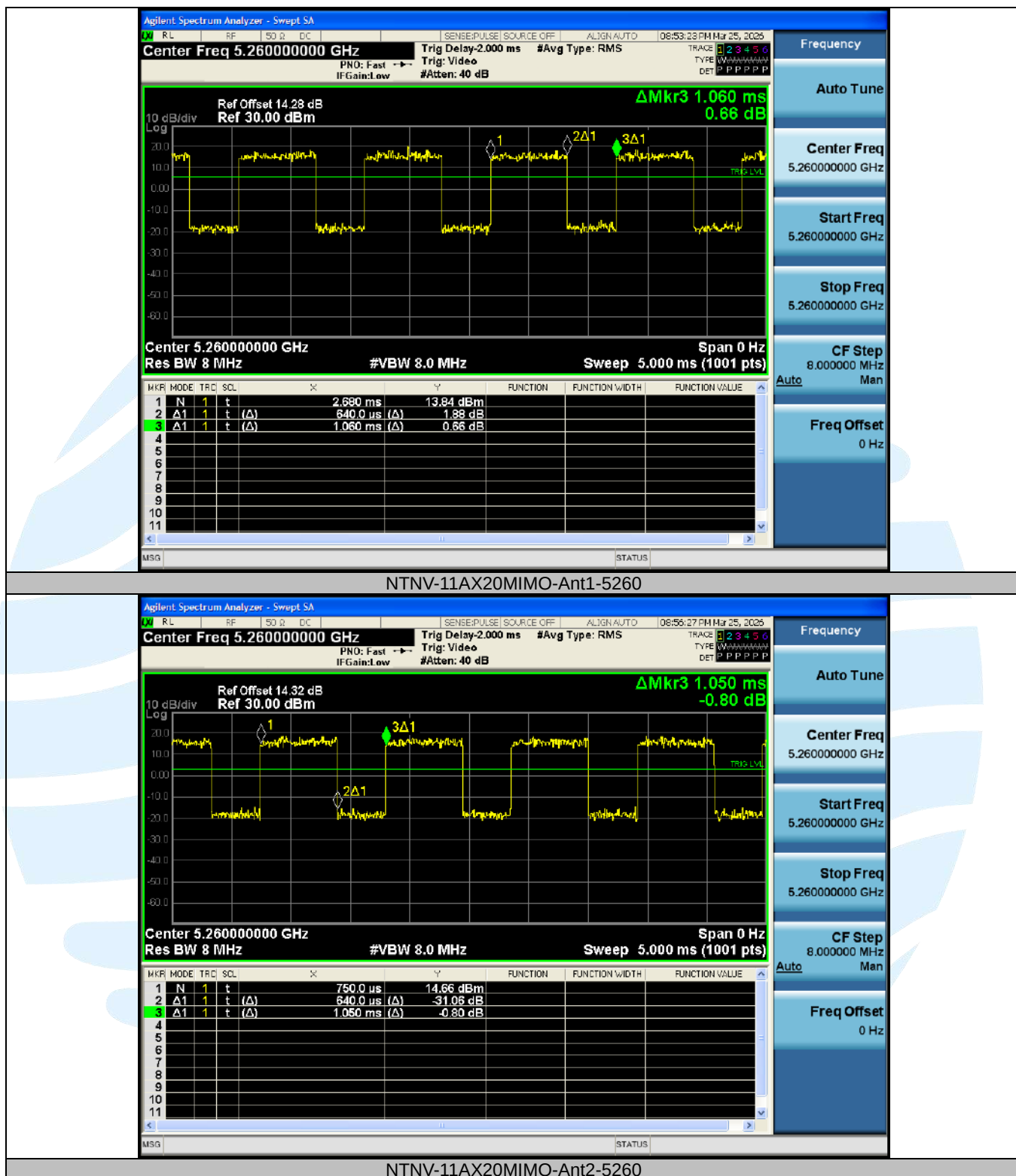
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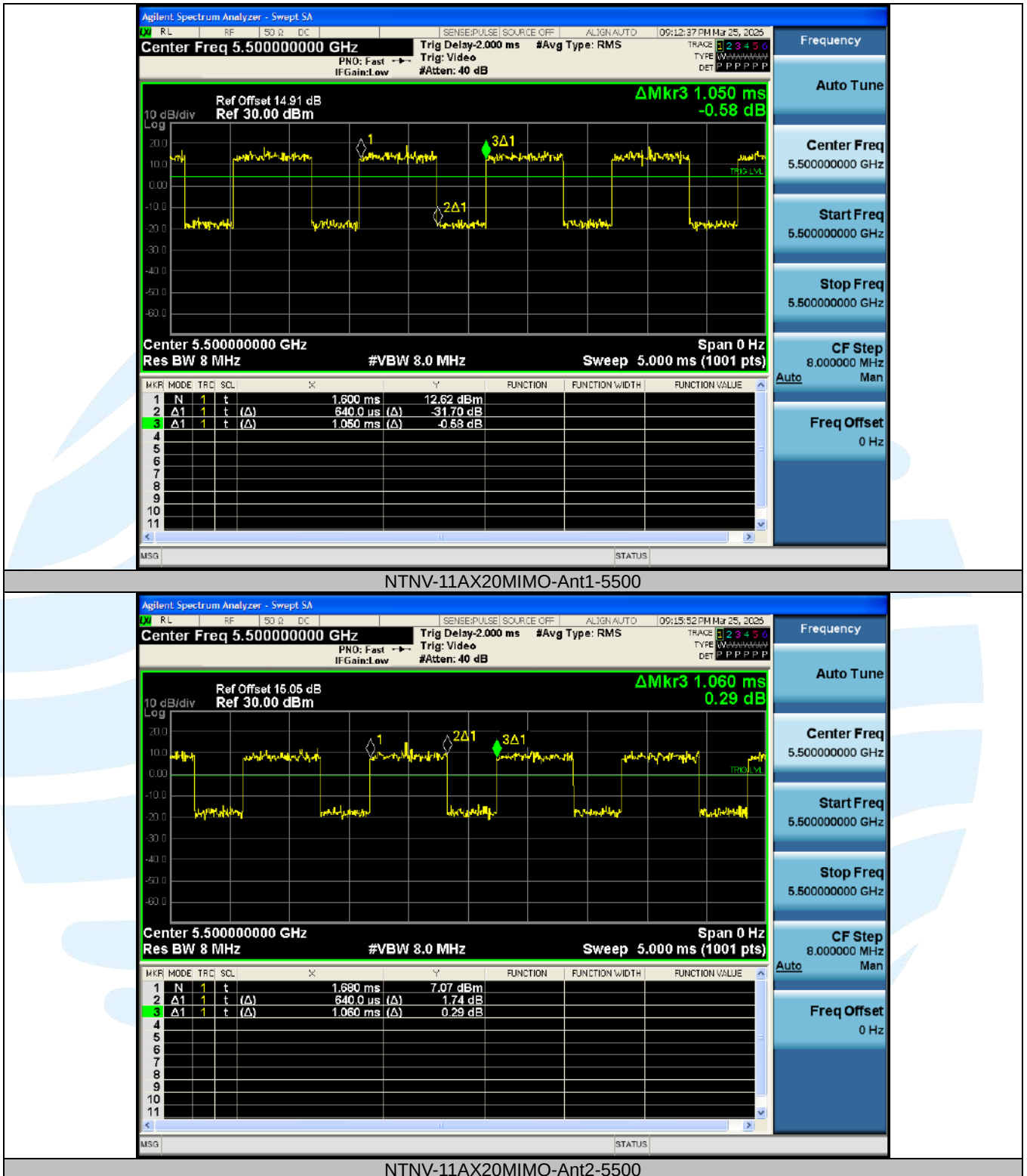
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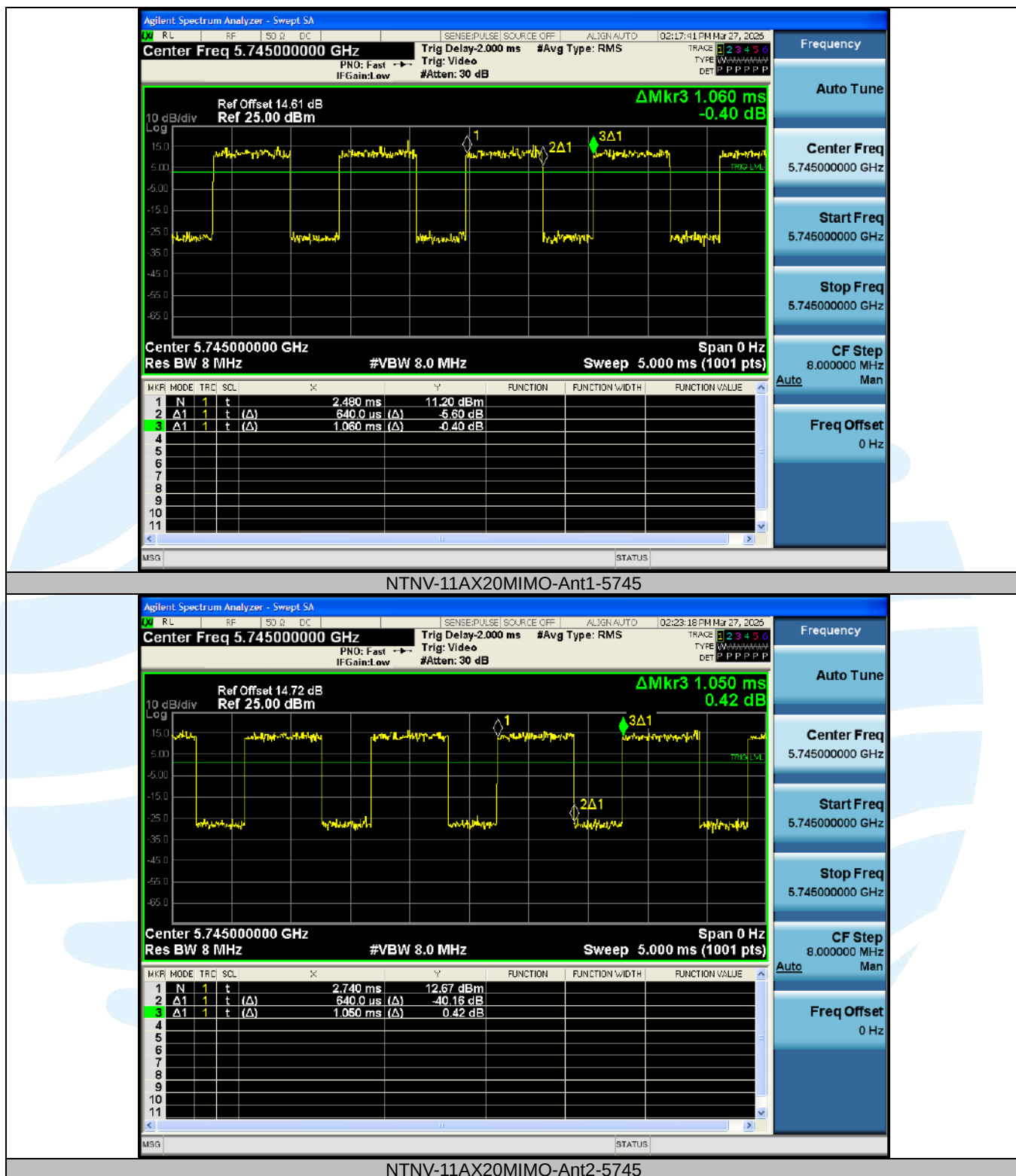
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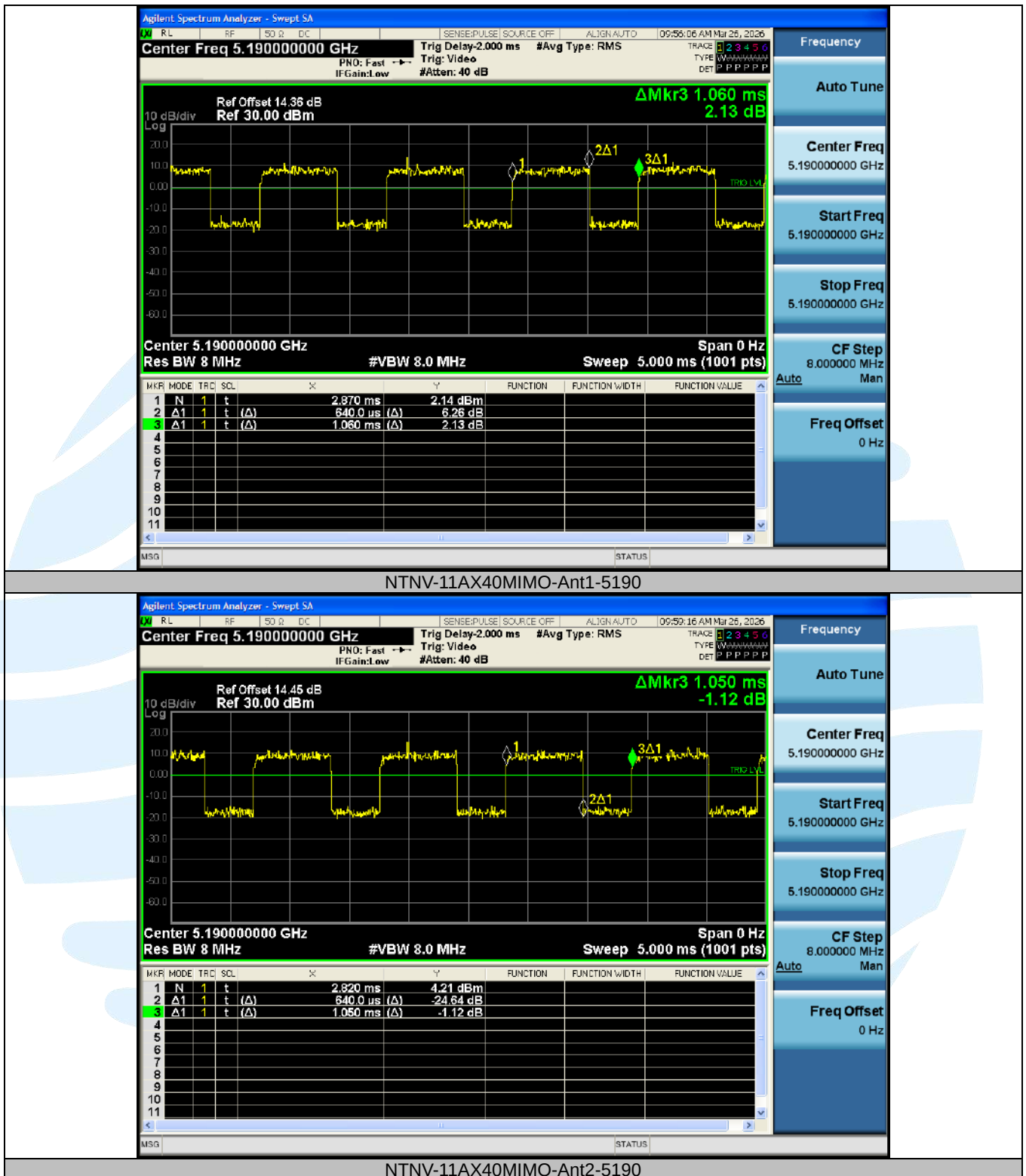
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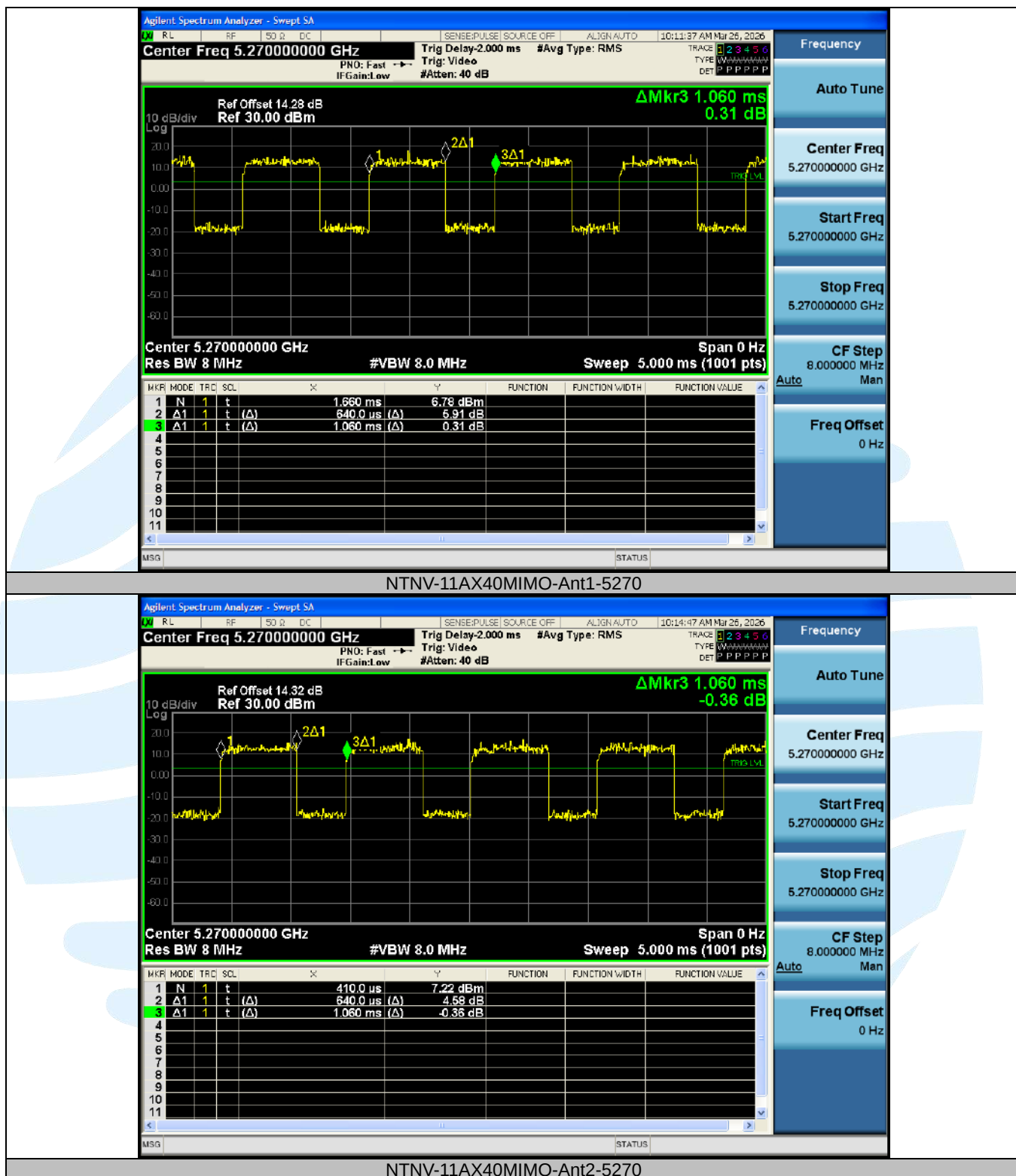
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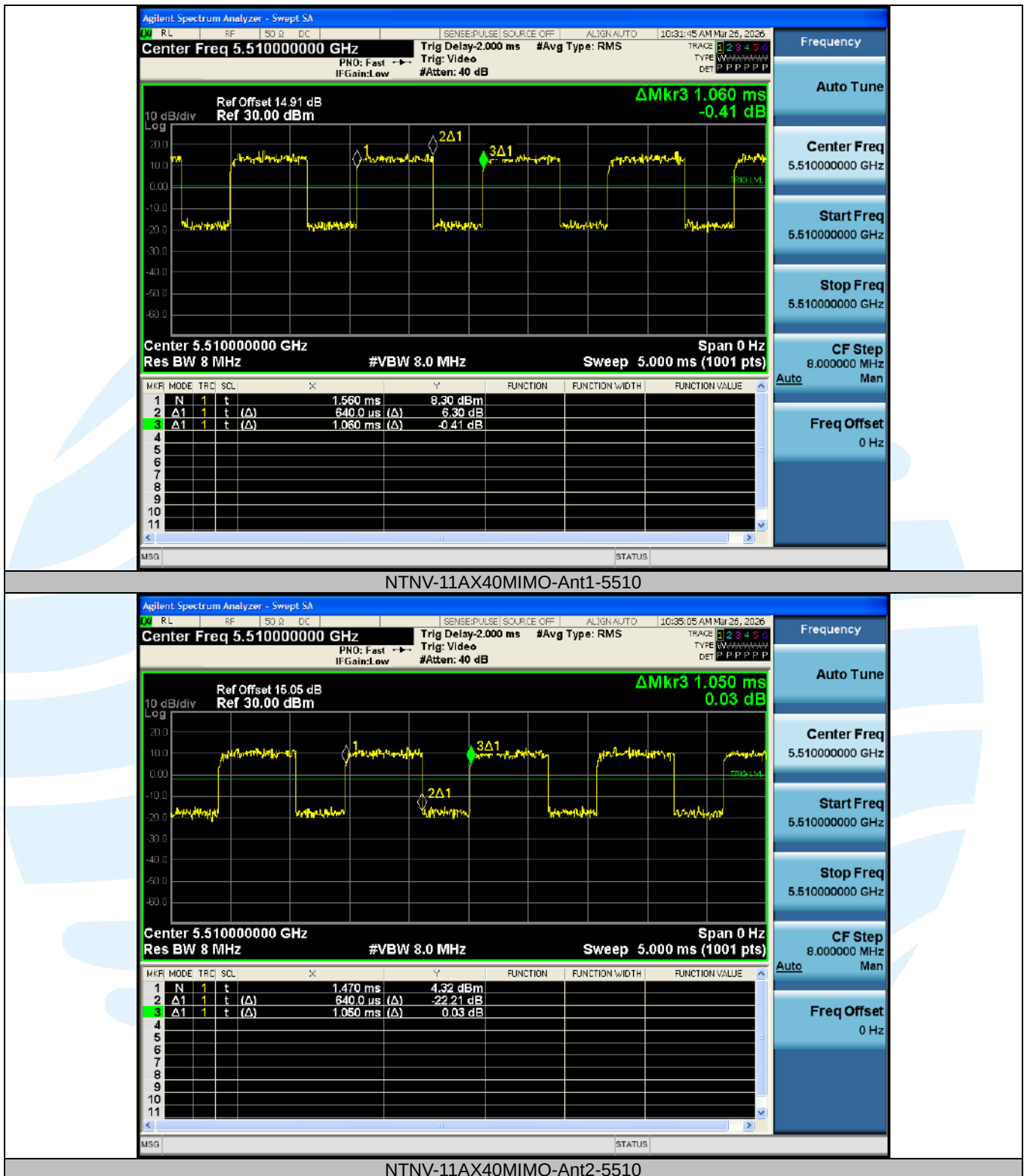
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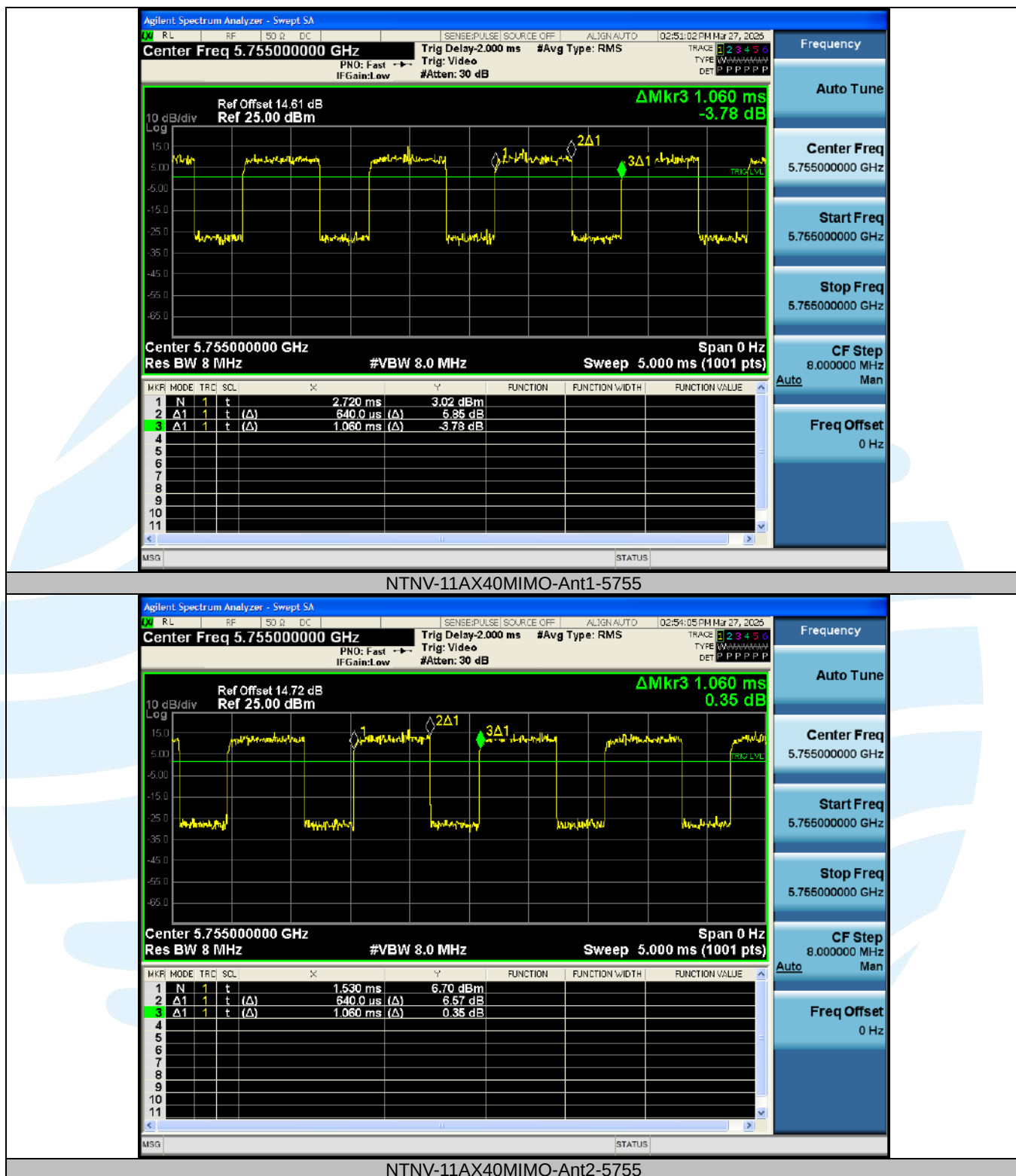
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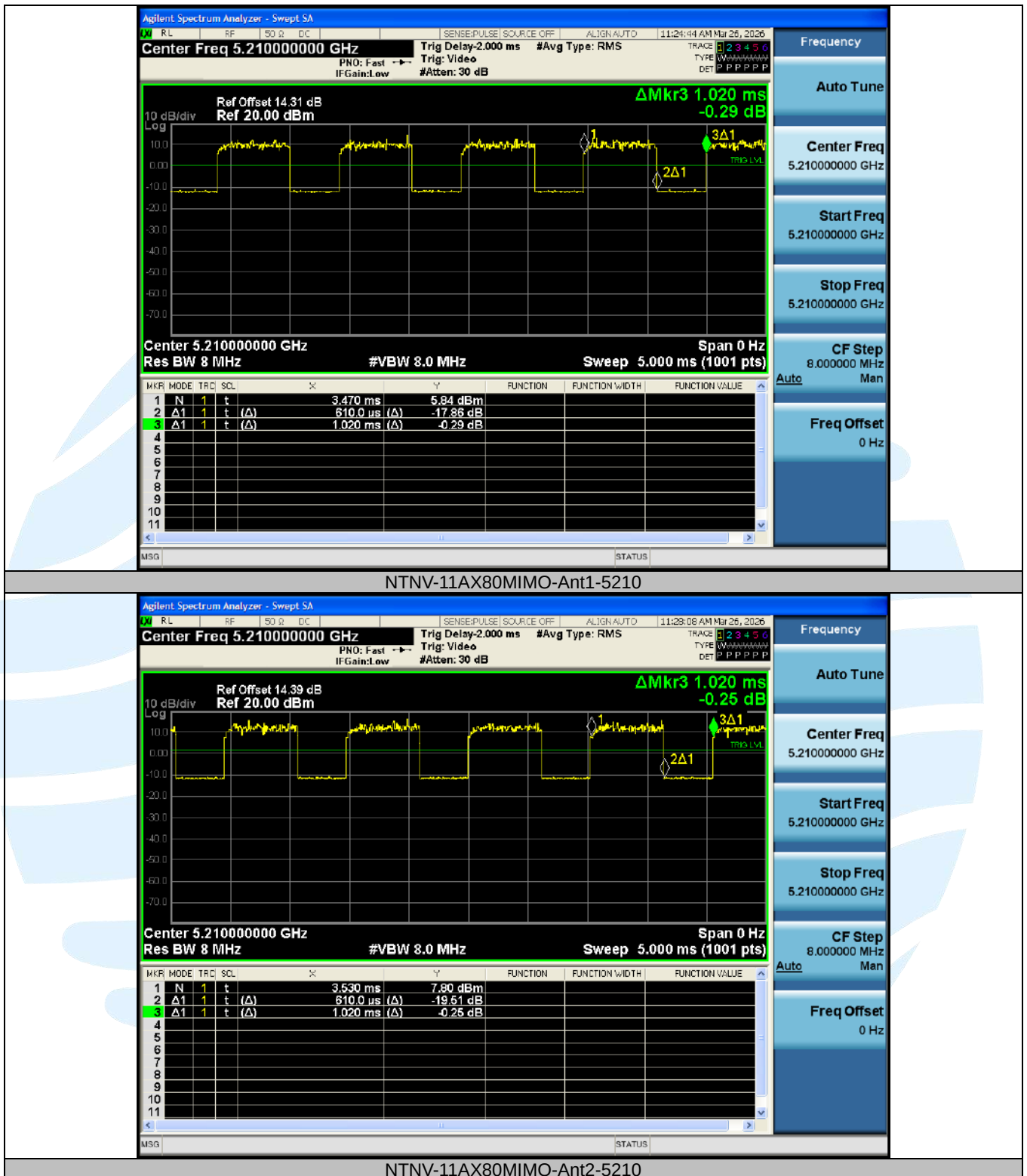
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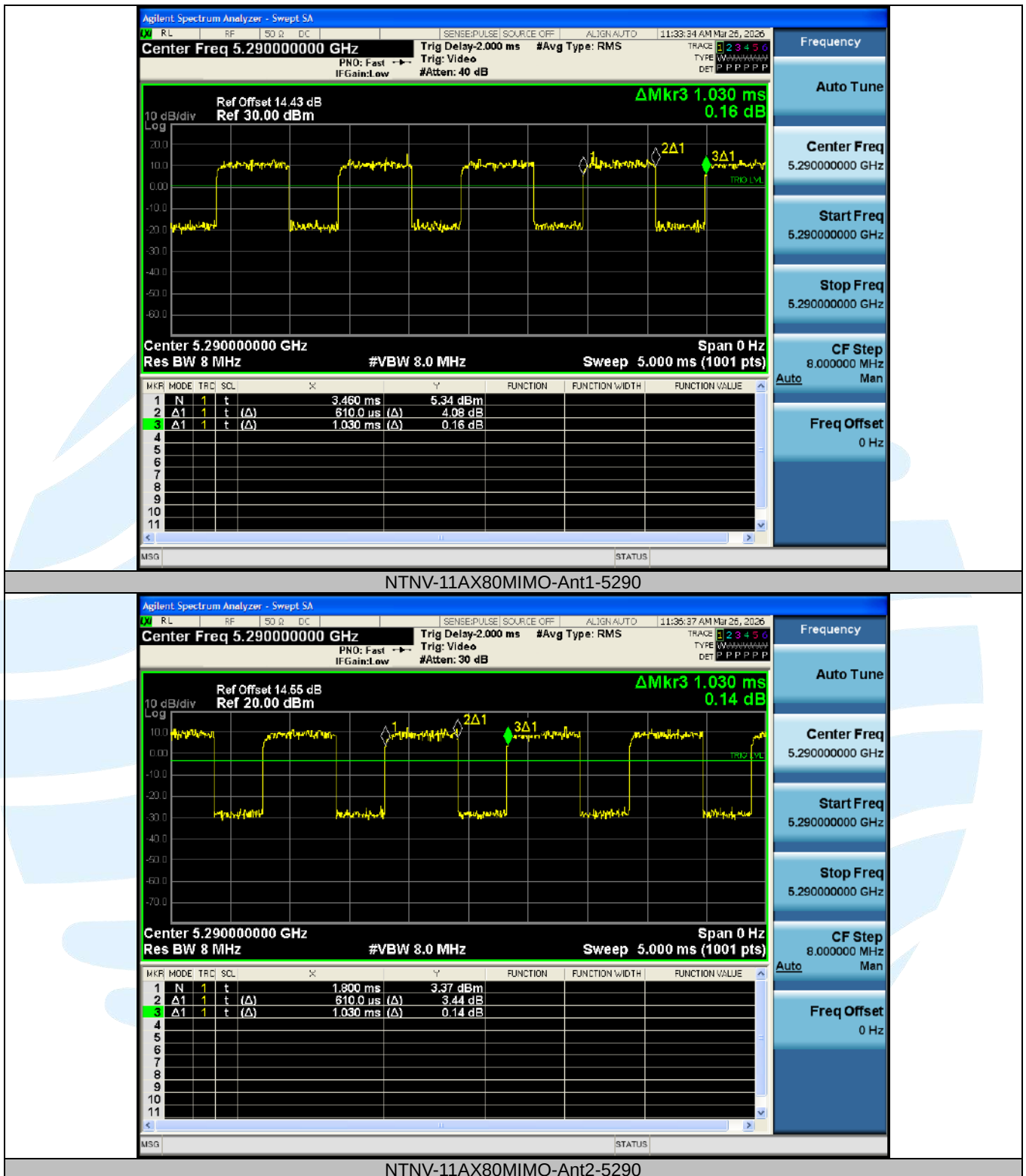
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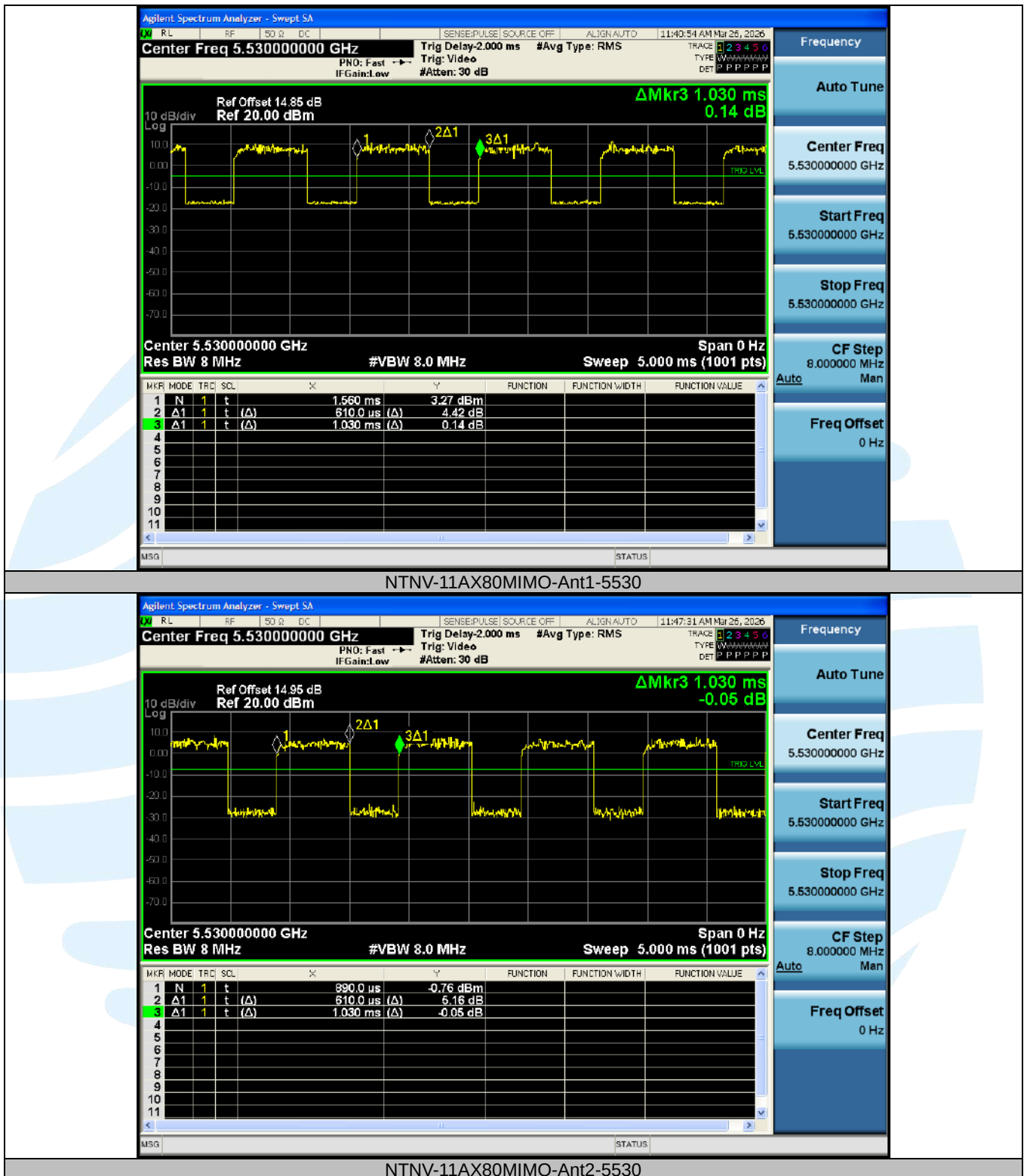
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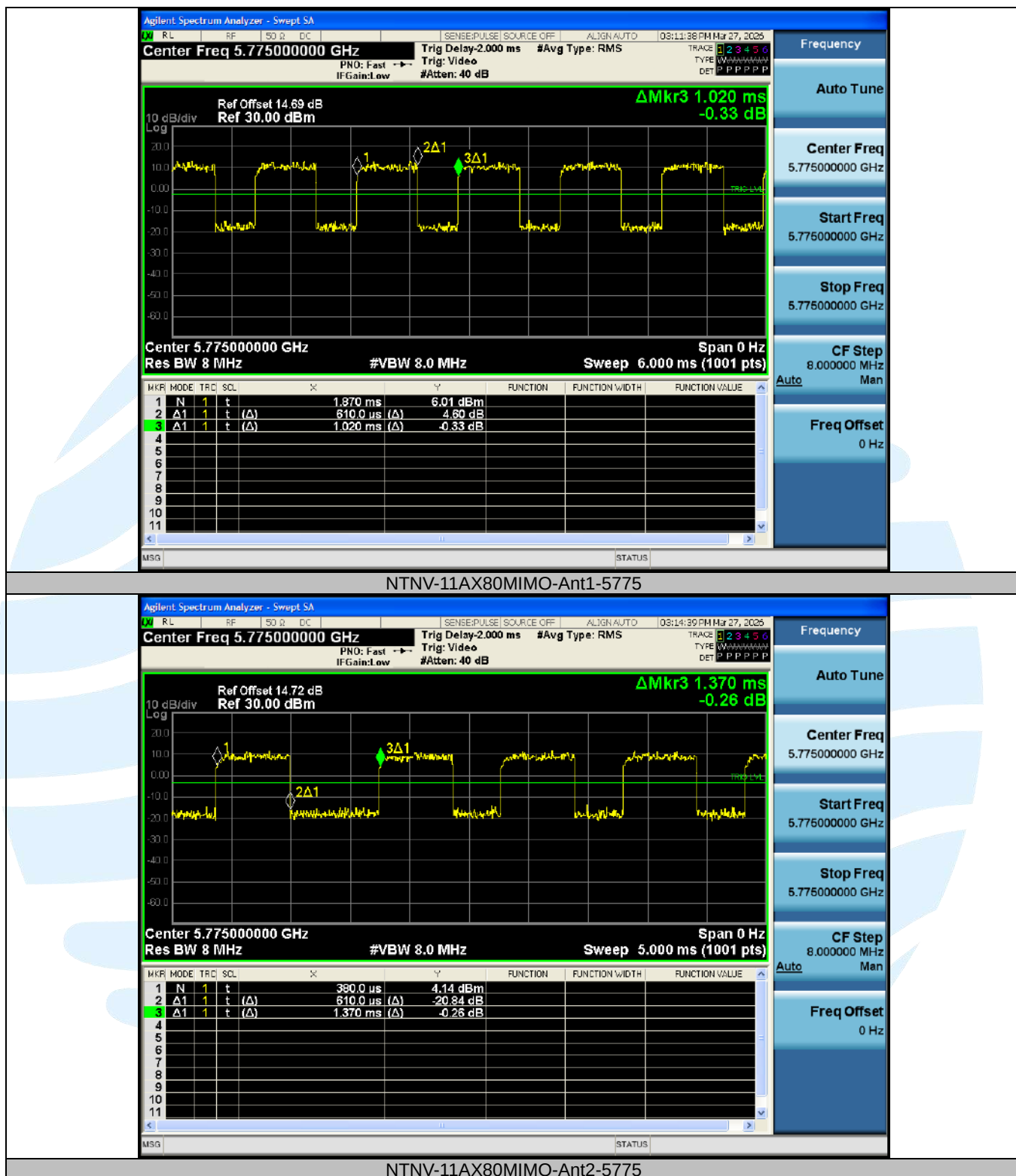
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5. RADIO TECHNICAL REQUIREMENTS SPECIFICATION

5.1 REFERENCE DOCUMENTS FOR TESTING

No.	Identity	Document Title
1	FCC 47 CFR Part 2	Frequency allocations and radio treaty matters; general rules and regulations
2	FCC 47 CFR Part 15	Radio Frequency Devices
3	ANSI C63.10-2020	American National Standard for Testing Unlicensed Wireless Devices
4	KDB 789033 D02 General UNII Test Procedures New Rules v02r01	Guidelines for compliance testing of unlicensed national information infrastructure (U-NII) device part 15, subpart E
5	KDB 905462 D06 802.11 Channel Plans New Rules v02	Operation in U-NII bands -802.11 channel PLAN(\$15.407)
6	KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02	Compliance measurement procedures for Unlicensed –National Information Infrastructure devices operates in the frequency bands 5250 MHz to 5350 MHz and 5470 MHz to 5725 MHz bands incorporating dynamic frequency selection
7	KDB 662911 D01 Multiple Transmitter Output v02r01	Emissions Testing of Transmitters with Multiple Outputs in the Same Band

5.2 ANTENNA REQUIREMENT

Standard Requirement
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. 15.407(a)(1) (2) requirement: The conducted output power limit specified in paragraph (a) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (a) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power and the peak power spectral density shall be reduced by the by the amount in dB that the directional gain of the antenna exceeds 6 dBi. EUT Antenna: Both antenna in the interior of the equipment and no consideration of replacement. The transmit signals are correlated with each other, the best case directional gain of the antenna is 5.98 dBi (See section 5.5).

5.326 DB BANDWIDTH & 99% OCCUPIED BANDWIDTH

Test Requirement: FCC 47 CFR Part 15 Subpart E Section 15.407 (a) (2)(5)

Test Method: KDB 789033 D02 v02r01 Section C.1

Limit: None; for reporting purposes only.

Test Procedure:

The output from the transmitter was connected to an attenuator and then to the input of the RF Spectrum analyzer.

Spectrum analyzer according to the following Settings:

- a) Set RBW = shall be in the range of 1% to 5% of the emission bandwidth.
- b) Set the VBW > RBW.
- c) Detector = peak.
- d) Trace mode = max-hold.
- e) Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the instrument. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is in the range of 1% to 5%.

Note:

The automatic bandwidth measurement capability of a spectrum analyzer or an EMI receiver may be employed if it implements the functionality described in the preceding items.

The cable loss and attenuator loss were offset into measure device as an amplitude offset.

Test Setup: Refer to section 4.5.3 for details.

Instruments Used: Refer to section 3 for details

Test Results: Pass

Test Results: Please refer to Appendix A

5.46 DB BANDWIDTH & 99% OCCUPIED BANDWIDTH

Test Requirement: FCC 47 CFR Part 15 Subpart C Section 15.407 (e)

Test Method: KDB 789033 D02 v02r01Section C.2

Limit: Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

Test Procedure:

The output from the transmitter was connected to an attenuator and then to the input of the RF Spectrum Analyzer.

Spectrum analyzer according to the following Settings:

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) $\geq 3 * \text{RBW}$.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) 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 6 dB relative to the maximum level measured in the fundamental emission.

Occupied Bandwidth

- a) Set center frequency to the nominal EUT channel center frequency.
- b) Set span = 1.5 times to 5.0 times the OBW.
- c) Set RBW = 1% to 5% of the OBW
- d) Set VBW $\geq 3 \times \text{RBW}$
- e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
- f) Use the 99% power bandwidth function of the instrument (if available).
- g) If the instrument does not have a 99% power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

Test Setup: Refer to section 4.5.3 for details.

Instruments Used: Refer to section 3 for details

Test Mode: Transmitter mode

Test Results: Pass

Test Results: Please refer to Appendix A

5.5 MAXIMUM CONDUCTED OUTPUT POWER

Test Requirement: FCC 47 CFR Part 15 Subpart E Section 15.407 (a)(1)(2)(3) & (h)(1)

Test Method: KDB 789033 D02 v02r01 Section E.3.a(Method PM)

Limits:

1. For the band 5.15-5.25 GHz.
 - (i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).
 - (ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
 - (iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple colocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.
 - (iv) For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
2. For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Transmit power control (TPC). U-NII devices operating in the 5.25-5.35 GHz band and the 5.47-5.725 GHz band shall employ a TPC mechanism. The U-NII device is required to have the capability to operate at least 6 dB below the mean EIRP value of 30 dBm. A TPC mechanism is not required for systems with an e.i.r.p. of less than 500 mW.
3. For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations

exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

4. For an indoor access point operating in the 5.850-5.895 GHz band, the maximum power spectral density must not exceed 20 dBm e.i.r.p. in any 1-megahertz band. In addition, the maximum e.i.r.p. over the frequency band of operation must not exceed 36 dBm. Indoor access points operating on a channel that spans the 5.725-5.850 GHz and 5.850-5.895 GHz bands must not exceed an e.i.r.p. of 36 dBm.

Test Procedure:

1. Connected the EUT's antenna port to measure device by 10dB attenuator.
2. Method PM is used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of Tx on burst.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

Test Setup: Refer to section 4.5.3 for details.

Instruments Used: Refer to section 3 for details

Test Mode: Transmitter mode

Test Results: Pass

Test Data:

Directional gain and the maximum output power limit.

Frequency (MHz)	Antenna Gain (dBi)		Directional gain (dBi)		Limit	
	Ant .1	Ant .2	Power	PSD	Power (dBm)	PSD (dBm/MHz or dBm/500kHz)
U-NII-1	2.5	2.7	5.61	5.61	23.98	11
U-NII-2A	2.5	2.5	5.51	5.51	23.98	11
U-NII-2C	2.5	2.5	5.51	5.51	23.98	11
U-NII-3	3.4	2.5	5.98	5.98	30	30

Unequal antenna gains, with equal transmit powers. Directional gain is to be computed as follows:
If transmit signals are correlated, then
Directional gain = $10 \log[(10^{G1}/20 + 10^{G2}/20 + \dots + 10^{GN}/20)^2 / NANT]$ dBi [Note the "20"s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.]

For U-NII-2A :

IEEE 802.11a/n/ac/ax: the minimum 26 dB emission bandwidth is 19.90 MHz

$$11 \text{ dBm} + 10\log_{10}(19.90) = 23.99 \text{ dBm}$$

$$23.99 \text{ dBm} > 23.98 \text{ dBm}$$

So the 23.98 dBm limit applicable

For U-NII-2C Band:

IEEE 802.11a: the minimum 26 dB emission bandwidth is 20.80 MHz

$$11 \text{ dBm} + 10\log_{10}(20.80) = 24.18 \text{ dBm}$$

$$24.18 \text{ dBm} > 23.98 \text{ dBm}$$

So the 23.98 dBm limit applicable

Test Mode	Ant.	Freq. [MHz]	Set Power	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	15	15.16	≤23.98	PASS
11A	Ant2	5180	15	15.95	≤23.98	PASS
11A	Ant1	5200	15	15.50	≤23.98	PASS
11A	Ant2	5200	15	15.61	≤23.98	PASS
11A	Ant1	5240	15	13.99	≤23.98	PASS
11A	Ant2	5240	15	15.37	≤23.98	PASS
11A	Ant1	5260	14	16.93	≤23.98	PASS
11A	Ant2	5260	14	14.80	≤23.98	PASS
11A	Ant1	5280	14	17.57	≤23.98	PASS
11A	Ant2	5280	14	14.69	≤23.98	PASS
11A	Ant1	5320	14	17.18	≤23.98	PASS
11A	Ant2	5320	14	13.93	≤23.98	PASS
11A	Ant1	5500	13	14.40	≤23.98	PASS
11A	Ant2	5500	16	13.22	≤23.98	PASS
11A	Ant1	5580	13	11.84	≤23.98	PASS
11A	Ant2	5580	16	12.48	≤23.98	PASS
11A	Ant1	5700	13	12.99	≤23.98	PASS
11A	Ant2	5700	16	13.08	≤23.98	PASS
11A	Ant1	5720	13	11.18	≤23.98	PASS
11A	Ant2	5720	16	13.43	≤23.98	PASS
11A	Ant1	5745	16	13.00	≤30.00	PASS
11A	Ant2	5745	16	13.72	≤30.00	PASS
11A	Ant1	5785	16	13.00	≤30.00	PASS
11A	Ant2	5785	16	13.69	≤30.00	PASS
11A	Ant1	5825	16	14.36	≤30.00	PASS
11A	Ant2	5825	16	14.01	≤30.00	PASS
11N20MIMO	Ant1	5180	12	13.03	≤23.98	PASS
11N20MIMO	Ant2	5180	12	13.20	≤23.98	PASS
11N20MIMO	total	5180	---	16.13	≤23.98	PASS
11N20MIMO	Ant1	5200	12	13.46	≤23.98	PASS
11N20MIMO	Ant2	5200	12	15.09	≤23.98	PASS
11N20MIMO	total	5200	---	17.36	≤23.98	PASS
11N20MIMO	Ant1	5240	12	12.15	≤23.98	PASS
11N20MIMO	Ant2	5240	12	12.70	≤23.98	PASS
11N20MIMO	total	5240	---	15.44	≤23.98	PASS
11N20MIMO	Ant1	5260	9	12.69	≤23.98	PASS
11N20MIMO	Ant2	5260	9	9.97	≤23.98	PASS
11N20MIMO	total	5260	---	14.55	≤23.98	PASS
11N20MIMO	Ant1	5280	9	13.57	≤23.98	PASS
11N20MIMO	Ant2	5280	9	10.03	≤23.98	PASS
11N20MIMO	total	5280	---	15.16	≤23.98	PASS
11N20MIMO	Ant1	5320	9	12.87	≤23.98	PASS
11N20MIMO	Ant2	5320	9	9.23	≤23.98	PASS
11N20MIMO	total	5320	---	14.43	≤23.98	PASS
11N20MIMO	Ant1	5500	9	11.96	≤23.98	PASS
11N20MIMO	Ant2	5500	9	6.58	≤23.98	PASS
11N20MIMO	total	5500	---	13.07	≤23.98	PASS
11N20MIMO	Ant1	5580	9	8.07	≤23.98	PASS
11N20MIMO	Ant2	5580	9	6.62	≤23.98	PASS
11N20MIMO	total	5580	---	10.42	≤23.98	PASS
11N20MIMO	Ant1	5700	9	9.61	≤23.98	PASS
11N20MIMO	Ant2	5700	9	5.67	≤23.98	PASS
11N20MIMO	total	5700	---	11.08	≤23.98	PASS
11N20MIMO	Ant1	5720	9	7.63	≤23.98	PASS
11N20MIMO	Ant2	5720	9	6.20	≤23.98	PASS
11N20MIMO	total	5720	---	9.98	≤23.98	PASS
11N20MIMO	Ant1	5745	11	11.02	≤30.00	PASS
11N20MIMO	Ant2	5745	11	12.32	≤30.00	PASS
11N20MIMO	total	5745	---	14.73	≤30.00	PASS
11N20MIMO	Ant1	5785	11	11.37	≤30.00	PASS
11N20MIMO	Ant2	5785	11	10.21	≤30.00	PASS

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11N20MIMO	total	5785	---	13.84	≤30.00	PASS
11N20MIMO	Ant1	5825	11	12.15	≤30.00	PASS
11N20MIMO	Ant2	5825	11	10.46	≤30.00	PASS
11N20MIMO	total	5825	---	14.40	≤30.00	PASS
11N40MIMO	Ant1	5190	13	12.84	≤23.98	PASS
11N40MIMO	Ant2	5190	13	14.04	≤23.98	PASS
11N40MIMO	total	5190	---	16.49	≤23.98	PASS
11N40MIMO	Ant1	5230	13	14.19	≤23.98	PASS
11N40MIMO	Ant2	5230	13	15.82	≤23.98	PASS
11N40MIMO	total	5230	---	18.09	≤23.98	PASS
11N40MIMO	Ant1	5270	12	15.57	≤23.98	PASS
11N40MIMO	Ant2	5270	12	12.91	≤23.98	PASS
11N40MIMO	total	5270	---	17.45	≤23.98	PASS
11N40MIMO	Ant1	5310	12	15.95	≤23.98	PASS
11N40MIMO	Ant2	5310	12	12.55	≤23.98	PASS
11N40MIMO	total	5310	---	17.58	≤23.98	PASS
11N40MIMO	Ant1	5510	14	15.63	≤23.98	PASS
11N40MIMO	Ant2	5510	14	11.09	≤23.98	PASS
11N40MIMO	total	5510	---	16.94	≤23.98	PASS
11N40MIMO	Ant1	5550	14	14.06	≤23.98	PASS
11N40MIMO	Ant2	5550	14	10.66	≤23.98	PASS
11N40MIMO	total	5550	---	15.69	≤23.98	PASS
11N40MIMO	Ant1	5670	14	16.15	≤23.98	PASS
11N40MIMO	Ant2	5670	14	10.33	≤23.98	PASS
11N40MIMO	total	5670	---	17.16	≤23.98	PASS
11N40MIMO	Ant1	5710	14	13.10	≤23.98	PASS
11N40MIMO	Ant2	5710	14	10.90	≤23.98	PASS
11N40MIMO	total	5710	---	15.15	≤23.98	PASS
11N40MIMO	Ant1	5755	15	13.82	≤30.00	PASS
11N40MIMO	Ant2	5755	15	12.87	≤30.00	PASS
11N40MIMO	total	5755	---	16.38	≤30.00	PASS
11N40MIMO	Ant1	5795	15	14.36	≤30.00	PASS
11N40MIMO	Ant2	5795	15	13.25	≤30.00	PASS
11N40MIMO	total	5795	---	16.85	≤30.00	PASS
11AC20MIMO	Ant1	5180	13	13.17	≤23.98	PASS
11AC20MIMO	Ant2	5180	13	13.39	≤23.98	PASS
11AC20MIMO	total	5180	---	16.29	≤23.98	PASS
11AC20MIMO	Ant1	5200	13	11.12	≤23.98	PASS
11AC20MIMO	Ant2	5200	13	13.21	≤23.98	PASS
11AC20MIMO	total	5200	---	15.30	≤23.98	PASS
11AC20MIMO	Ant1	5240	13	12.66	≤23.98	PASS
11AC20MIMO	Ant2	5240	13	12.75	≤23.98	PASS
11AC20MIMO	total	5240	---	15.72	≤23.98	PASS
11AC20MIMO	Ant1	5260	11	13.90	≤23.98	PASS
11AC20MIMO	Ant2	5260	11	11.36	≤23.98	PASS
11AC20MIMO	total	5260	---	15.82	≤23.98	PASS
11AC20MIMO	Ant1	5280	11	14.80	≤23.98	PASS
11AC20MIMO	Ant2	5280	11	10.99	≤23.98	PASS
11AC20MIMO	total	5280	---	16.31	≤23.98	PASS
11AC20MIMO	Ant1	5320	11	13.97	≤23.98	PASS
11AC20MIMO	Ant2	5320	11	10.57	≤23.98	PASS
11AC20MIMO	total	5320	---	15.60	≤23.98	PASS
11AC20MIMO	Ant1	5500	10	12.61	≤23.98	PASS
11AC20MIMO	Ant2	5500	10	6.79	≤23.98	PASS
11AC20MIMO	total	5500	---	13.62	≤23.98	PASS
11AC20MIMO	Ant1	5580	10	9.06	≤23.98	PASS
11AC20MIMO	Ant2	5580	10	5.31	≤23.98	PASS
11AC20MIMO	total	5580	---	10.59	≤23.98	PASS
11AC20MIMO	Ant1	5700	10	9.74	≤23.98	PASS
11AC20MIMO	Ant2	5700	10	5.05	≤23.98	PASS
11AC20MIMO	total	5700	---	11.01	≤23.98	PASS
11AC20MIMO	Ant1	5720	10	9.12	≤23.98	PASS
11AC20MIMO	Ant2	5720	10	6.52	≤23.98	PASS

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11AC20MIMO	total	5720	---	11.02	≤23.98	PASS
11AC20MIMO	Ant1	5745	11	10.22	≤30.00	PASS
11AC20MIMO	Ant2	5745	11	8.50	≤30.00	PASS
11AC20MIMO	total	5745	---	12.45	≤30.00	PASS
11AC20MIMO	Ant1	5785	11	10.26	≤30.00	PASS
11AC20MIMO	Ant2	5785	11	8.20	≤30.00	PASS
11AC20MIMO	total	5785	---	12.36	≤30.00	PASS
11AC20MIMO	Ant1	5825	11	10.77	≤30.00	PASS
11AC20MIMO	Ant2	5825	11	8.57	≤30.00	PASS
11AC20MIMO	total	5825	---	12.82	≤30.00	PASS
11AC40MIMO	Ant1	5190	13	14.19	≤23.98	PASS
11AC40MIMO	Ant2	5190	13	14.56	≤23.98	PASS
11AC40MIMO	total	5190	---	17.39	≤23.98	PASS
11AC40MIMO	Ant1	5230	13	13.73	≤23.98	PASS
11AC40MIMO	Ant2	5230	13	14.96	≤23.98	PASS
11AC40MIMO	total	5230	---	17.40	≤23.98	PASS
11AC40MIMO	Ant1	5270	12	13.53	≤23.98	PASS
11AC40MIMO	Ant2	5270	12	12.47	≤23.98	PASS
11AC40MIMO	total	5270	---	16.04	≤23.98	PASS
11AC40MIMO	Ant1	5310	12	13.56	≤23.98	PASS
11AC40MIMO	Ant2	5310	12	8.98	≤23.98	PASS
11AC40MIMO	total	5310	---	14.86	≤23.98	PASS
11AC40MIMO	Ant1	5510	13	13.77	≤23.98	PASS
11AC40MIMO	Ant2	5510	13	7.41	≤23.98	PASS
11AC40MIMO	total	5510	---	14.67	≤23.98	PASS
11AC40MIMO	Ant1	5550	13	13.42	≤23.98	PASS
11AC40MIMO	Ant2	5550	13	9.04	≤23.98	PASS
11AC40MIMO	total	5550	---	14.77	≤23.98	PASS
11AC40MIMO	Ant1	5670	13	12.11	≤23.98	PASS
11AC40MIMO	Ant2	5670	13	7.01	≤23.98	PASS
11AC40MIMO	total	5670	---	13.28	≤23.98	PASS
11AC40MIMO	Ant1	5710	13	12.19	≤23.98	PASS
11AC40MIMO	Ant2	5710	13	9.00	≤23.98	PASS
11AC40MIMO	total	5710	---	13.89	≤23.98	PASS
11AC40MIMO	Ant1	5755	12	10.22	≤30.00	PASS
11AC40MIMO	Ant2	5755	12	11.64	≤30.00	PASS
11AC40MIMO	total	5755	---	14.00	≤30.00	PASS
11AC40MIMO	Ant1	5795	12	10.32	≤30.00	PASS
11AC40MIMO	Ant2	5795	12	9.33	≤30.00	PASS
11AC40MIMO	total	5795	---	12.86	≤30.00	PASS
11AC80MIMO	Ant1	5210	13	13.90	≤23.98	PASS
11AC80MIMO	Ant2	5210	13	14.84	≤23.98	PASS
11AC80MIMO	total	5210	---	17.41	≤23.98	PASS
11AC80MIMO	Ant1	5290	12	13.21	≤23.98	PASS
11AC80MIMO	Ant2	5290	12	11.32	≤23.98	PASS
11AC80MIMO	total	5290	---	15.38	≤23.98	PASS
11AC80MIMO	Ant1	5530	13	13.43	≤23.98	PASS
11AC80MIMO	Ant2	5530	13	9.46	≤23.98	PASS
11AC80MIMO	total	5530	---	14.89	≤23.98	PASS
11AC80MIMO	Ant1	5610	13	12.72	≤23.98	PASS
11AC80MIMO	Ant2	5610	13	8.59	≤23.98	PASS
11AC80MIMO	total	5610	---	14.14	≤23.98	PASS
11AC80MIMO	Ant1	5690	13	12.16	≤23.98	PASS
11AC80MIMO	Ant2	5690	13	7.61	≤23.98	PASS
11AC80MIMO	total	5690	---	13.47	≤23.98	PASS
11AC80MIMO	Ant1	5775	14	10.54	≤30.00	PASS
11AC80MIMO	Ant2	5775	14	11.55	≤30.00	PASS
11AC80MIMO	total	5775	---	14.08	≤30.00	PASS
11AX20MIMO	Ant1	5180	13	13.98	≤23.98	PASS
11AX20MIMO	Ant2	5180	13	14.14	≤23.98	PASS
11AX20MIMO	total	5180	---	17.07	≤23.98	PASS
11AX20MIMO	Ant1	5200	13	13.84	≤23.98	PASS
11AX20MIMO	Ant2	5200	13	15.59	≤23.98	PASS

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11AX20MIMO	total	5200	---	17.81	≤23.98	PASS
11AX20MIMO	Ant1	5240	13	13.44	≤23.98	PASS
11AX20MIMO	Ant2	5240	13	13.43	≤23.98	PASS
11AX20MIMO	total	5240	---	16.45	≤23.98	PASS
11AX20MIMO	Ant1	5260	11	12.04	≤23.98	PASS
11AX20MIMO	Ant2	5260	11	11.79	≤23.98	PASS
11AX20MIMO	total	5260	---	14.93	≤23.98	PASS
11AX20MIMO	Ant1	5280	11	12.26	≤23.98	PASS
11AX20MIMO	Ant2	5280	11	11.54	≤23.98	PASS
11AX20MIMO	total	5280	---	14.93	≤23.98	PASS
11AX20MIMO	Ant1	5320	11	12.03	≤23.98	PASS
11AX20MIMO	Ant2	5320	11	6.63	≤23.98	PASS
11AX20MIMO	total	5320	---	13.13	≤23.98	PASS
11AX20MIMO	Ant1	5500	10	11.18	≤23.98	PASS
11AX20MIMO	Ant2	5500	10	6.60	≤23.98	PASS
11AX20MIMO	total	5500	---	12.48	≤23.98	PASS
11AX20MIMO	Ant1	5580	10	9.38	≤23.98	PASS
11AX20MIMO	Ant2	5580	10	9.79	≤23.98	PASS
11AX20MIMO	total	5580	---	12.60	≤23.98	PASS
11AX20MIMO	Ant1	5700	10	6.35	≤23.98	PASS
11AX20MIMO	Ant2	5700	10	4.90	≤23.98	PASS
11AX20MIMO	total	5700	---	8.70	≤23.98	PASS
11AX20MIMO	Ant1	5720	10	4.74	≤23.98	PASS
11AX20MIMO	Ant2	5720	10	6.54	≤23.98	PASS
11AX20MIMO	total	5720	---	8.74	≤23.98	PASS
11AX20MIMO	Ant1	5745	11	9.42	≤30.00	PASS
11AX20MIMO	Ant2	5745	11	10.76	≤30.00	PASS
11AX20MIMO	total	5745	---	13.15	≤30.00	PASS
11AX20MIMO	Ant1	5785	11	10.23	≤30.00	PASS
11AX20MIMO	Ant2	5785	11	8.38	≤30.00	PASS
11AX20MIMO	total	5785	---	12.41	≤30.00	PASS
11AX20MIMO	Ant1	5825	11	10.53	≤30.00	PASS
11AX20MIMO	Ant2	5825	11	9.01	≤30.00	PASS
11AX20MIMO	total	5825	---	12.85	≤30.00	PASS
11AX40MIMO	Ant1	5190	7	8.21	≤23.98	PASS
11AX40MIMO	Ant2	5190	7	9.06	≤23.98	PASS
11AX40MIMO	total	5190	---	11.67	≤23.98	PASS
11AX40MIMO	Ant1	5230	13	11.70	≤23.98	PASS
11AX40MIMO	Ant2	5230	13	13.27	≤23.98	PASS
11AX40MIMO	total	5230	---	15.57	≤23.98	PASS
11AX40MIMO	Ant1	5270	12	13.05	≤23.98	PASS
11AX40MIMO	Ant2	5270	12	12.99	≤23.98	PASS
11AX40MIMO	total	5270	---	16.03	≤23.98	PASS
11AX40MIMO	Ant1	5310	12	14.80	≤23.98	PASS
11AX40MIMO	Ant2	5310	12	12.28	≤23.98	PASS
11AX40MIMO	total	5310	---	16.73	≤23.98	PASS
11AX40MIMO	Ant1	5510	13	13.95	≤23.98	PASS
11AX40MIMO	Ant2	5510	13	10.07	≤23.98	PASS
11AX40MIMO	total	5510	---	15.44	≤23.98	PASS
11AX40MIMO	Ant1	5550	13	13.13	≤23.98	PASS
11AX40MIMO	Ant2	5550	13	9.87	≤23.98	PASS
11AX40MIMO	total	5550	---	14.81	≤23.98	PASS
11AX40MIMO	Ant1	5670	13	9.93	≤23.98	PASS
11AX40MIMO	Ant2	5670	13	8.91	≤23.98	PASS
11AX40MIMO	total	5670	---	12.46	≤23.98	PASS
11AX40MIMO	Ant1	5710	13	8.68	≤23.98	PASS
11AX40MIMO	Ant2	5710	13	10.26	≤23.98	PASS
11AX40MIMO	total	5710	---	12.55	≤23.98	PASS
11AX40MIMO	Ant1	5755	12	10.68	≤30.00	PASS
11AX40MIMO	Ant2	5755	12	12.52	≤30.00	PASS
11AX40MIMO	total	5755	---	14.71	≤30.00	PASS
11AX40MIMO	Ant1	5795	12	10.34	≤30.00	PASS
11AX40MIMO	Ant2	5795	12	9.67	≤30.00	PASS

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11AX40MIMO	total	5795	---	13.03	≤30.00	PASS
11AX80MIMO	Ant1	5210	13	12.58	≤23.98	PASS
11AX80MIMO	Ant2	5210	13	14.11	≤23.98	PASS
11AX80MIMO	total	5210	---	16.42	≤23.98	PASS
11AX80MIMO	Ant1	5290	12	13.41	≤23.98	PASS
11AX80MIMO	Ant2	5290	12	11.98	≤23.98	PASS
11AX80MIMO	total	5290	---	15.76	≤23.98	PASS
11AX80MIMO	Ant1	5530	13	13.88	≤23.98	PASS
11AX80MIMO	Ant2	5530	13	8.28	≤23.98	PASS
11AX80MIMO	total	5530	---	14.94	≤23.98	PASS
11AX80MIMO	Ant1	5610	13	12.39	≤23.98	PASS
11AX80MIMO	Ant2	5610	13	9.25	≤23.98	PASS
11AX80MIMO	total	5610	---	14.11	≤23.98	PASS
11AX80MIMO	Ant1	5690	13	9.55	≤23.98	PASS
11AX80MIMO	Ant2	5690	13	9.04	≤23.98	PASS
11AX80MIMO	total	5690	---	12.31	≤23.98	PASS
11AX80MIMO	Ant1	5775	14	11.20	≤30.00	PASS
11AX80MIMO	Ant2	5775	14	13.66	≤30.00	PASS
11AX80MIMO	total	5775	---	15.61	≤30.00	PASS

5.6 PEAK POWER SPECTRAL DENSITY

Test Requirement: FCC 47 CFR Part 15 Subpart E Section 15.407 (a)(1)(2)(3)

Test Method: KDB 789033 D02 v02r01 Section F

Limits:

1. For the band 5.15-5.25 GHz.
 - (i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).
 - (ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
 - (iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple colocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.
 - (iv) For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
2. For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
3. For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple colocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.
4. For an indoor access point operating in the 5.850-5.895 GHz band, the maximum power spectral density must not exceed 20 dBm e.i.r.p. in any 1-megahertz band. In addition, the maximum e.i.r.p. over the

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frequency band of operation must not exceed 36 dBm. Indoor access points operating on a channel that spans the 5.725-5.850 GHz and 5.850-5.895 GHz bands must not exceed an e.i.r.p. of 36 dBm.

Test Procedure:

The output from the transmitter was connected to an attenuator and then to the input of the RF Spectrum Analyzer.

Spectrum analyzer according to the following Settings:

1. For U-NII-1, U-NII-2A, U-NII-2C band:

Using method SA-2

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz, Set VBW ≥ 3 RBW, Detector = RMS
- Sweep time = auto, trigger set to "free run".
- Trace average at least 100 traces in power averaging mode.
- Record the max value and add 10 log (1/duty cycle)

2. For U-NII-3 band:

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 500 kHz, Set VBW ≥ 3 RBW, Detector = RMS
- Use the peak marker function to determine the maximum power level in any 500 kHz band segment within the fundamental EBW.
- Sweep time = auto, trigger set to "free run".
- Trace average at least 100 traces in power averaging mode.
- Record the max value and add 10 log (1/duty cycle)

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

Test Setup: Refer to section 4.5.3 for details.

Instruments Used: Refer to section 3 for details

Test Mode: Transmitter mode

Test Results: Please refer to Appendix A

Directional gain and the maximum power spectral density limit.

Frequency (MHz)	Antenna Gain (dBi)		Directional gain (dBi)		Limit	
	Ant .1	Ant .2	Power	PSD	Power (dBm)	PSD (dBm/MHz or dBm/500kHz)
U-NII-1	2.5	2.7	5.61	5.61	23.98	11
U-NII-2A	2.5	2.5	5.51	5.51	23.98	11
U-NII-2C	2.5	2.5	5.51	5.51	23.98	11
U-NII-3	3.4	2.5	5.98	5.98	30	30

Unequal antenna gains, with equal transmit powers. Directional gain is to be computed as follows:

If transmit signals are correlated, then

Directional gain = $10 \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N \text{ANT}]$ dBi [Note the "20"s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.]

5.7 RADIATED EMISSIONS AND BAND EDGE MEASUREMENT

Test Requirement: FCC 47 CFR Part 15 Subpart E Section 15.407 (b)(1)(2)(3)(4)(6)
FCC 47 CFR Part 15 Subpart C Section 15.209/205

Test Method: KDB 789033 D02 v02r01 Section G.3, G.4, G.5, and G.6

Receiver Setup:

Frequency	RBW
0.009 MHz-0.150 MHz	200/300 kHz
0.150 MHz -30 MHz	9/10 kHz
30 MHz-1 GHz	100/120 kHz
Above 1 GHz	1 MHz

Limits:

1. Limits of Radiated Emission and Band edge Measurement

Radiated emissions that fall in the restricted bands must comply with the general emissions limits in 15.209(a) as below table. Other emissions shall be at least 20 dB below the highest level of the desired power.

Frequency	Field strength (microvolt/meter)	Limit (dBμV/m)	Remark	Measurement distance (m)
0.009 MHz-0.490 MHz	2400/F(kHz)	--	--	300
0.490 MHz-1.705 MHz	24000/F(kHz)	--	--	30
1.705 MHz-30 MHz	30	--	--	30
30 MHz-88 MHz	100	40.0	Quasi-peak	3
88 MHz-216 MHz	150	43.5	Quasi-peak	3
216 MHz-960 MHz	200	46.0	Quasi-peak	3
960MHz-1GHz	500	54.0	Quasi-peak	3
Above 1 GHz	500	54.0	Average	3

Remark:

- The lower limit shall apply at the transition frequencies.
- Emission level (dBuV/m) = 20 log Emission level (uV/m).
- For frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20 dB under any condition of modulation.

2. Limits of Unwanted Emission Out of the Restricted Bands

Applicable To	Limit	
789033 D02 General U-NII Test Procedures New Rules v01r04	Field Strength at 3 m	
	PK: 74 (dBμV/m)	AV: 54 (dBμV/m)
Applicable To	EIRP Limit	Equivalent Field Strength at 3 m
FCC Part 15.407 (b)(1)	PK: -27 (dBm/MHz)	PK: 74 (dBμV/m)
FCC Part 15.407 (b)(2)	PK: -27 (dBm/MHz)	PK: 74 (dBμV/m)
FCC Part 15.407 (b)(3)	PK: -27 (dBm/MHz)	PK: 68.2 (dBμV/m)
FCC Part 15.407 (b)(4)	27 dBm/MHz at frequencies from the band edges decreasing linearly to 15.6 dBm/MHz at 5 MHz above or below the band edges;	PK: 68.2 (dBμV/m)
	15.6 dBm/MHz at 5 MHz above or below the band edges decreasing linearly to 10 dBm/MHz at 25 MHz above or below the band edges;	
	10 dBm/MHz at 25 MHz above or below the band edges decreasing linearly to -27 dBm/MHz at 75 MHz above or below the band edges;	
	-27 dBm/MHz at frequencies more than 75 MHz above or below the band edges.	

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Test Setup: Refer to section 4.5.1 for details.

Test Procedures:

1. The EUT was placed on the top of a rotating table 0.8 meters (for below 1 GHz) / 1.5 meters (for above 1 GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
3. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
5. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
6. The test-receiver system was set to peak and average detected function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Remark:

- a) The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) at frequency below 1 GHz.
- b) The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1 GHz.
- c) The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for RMS Average (Duty cycle < 98 %) for Average detection (AV) at frequency above 1 GHz, then the measurement results was added to a correction factor ($10 \log(1/\text{duty cycle})$).
- d) The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10 Hz (Duty cycle $\geq 98 \%$) or $\geq 1/T$ (duty cycle is < 98%) for Average detection (AV) at frequency above 1 GHz.
- e) All modes of operation were investigated and the worst-case emissions are reported.

Equipment Used: Refer to section 3 for details.

Test Result: Pass

The measurement data as follows:

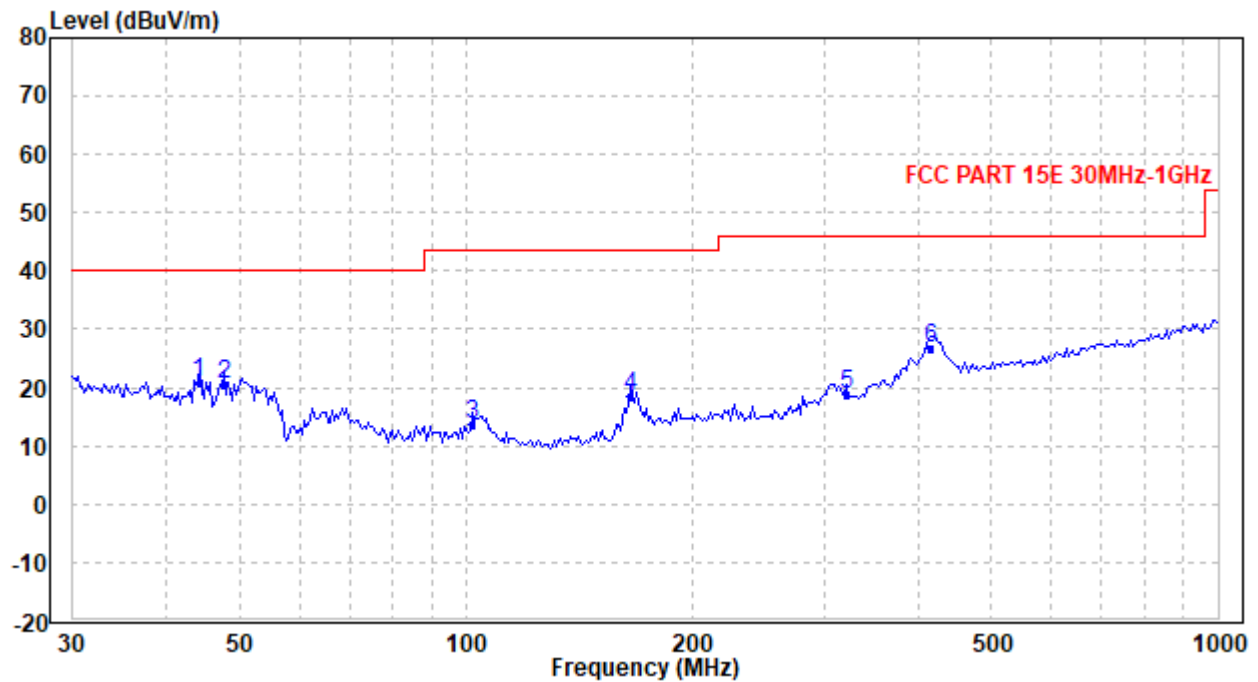
Radiated Emission Test Data (9 KHz ~ 30 MHz):

The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

Radiated Emission Test Data (30 MHz ~ 1 GHz):

Worst-Case Configuration

Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	44.154	33.80	-12.84	20.96	40.00	-19.04	QP
2	47.703	34.20	-13.58	20.62	40.00	-19.38	QP
3	101.893	29.66	-15.98	13.68	43.50	-29.82	QP
4	165.472	31.71	-13.11	18.60	43.50	-24.90	QP
5	320.331	26.68	-8.01	18.67	46.00	-27.33	QP
6	415.449	30.74	-3.86	26.88	46.00	-19.12	QP

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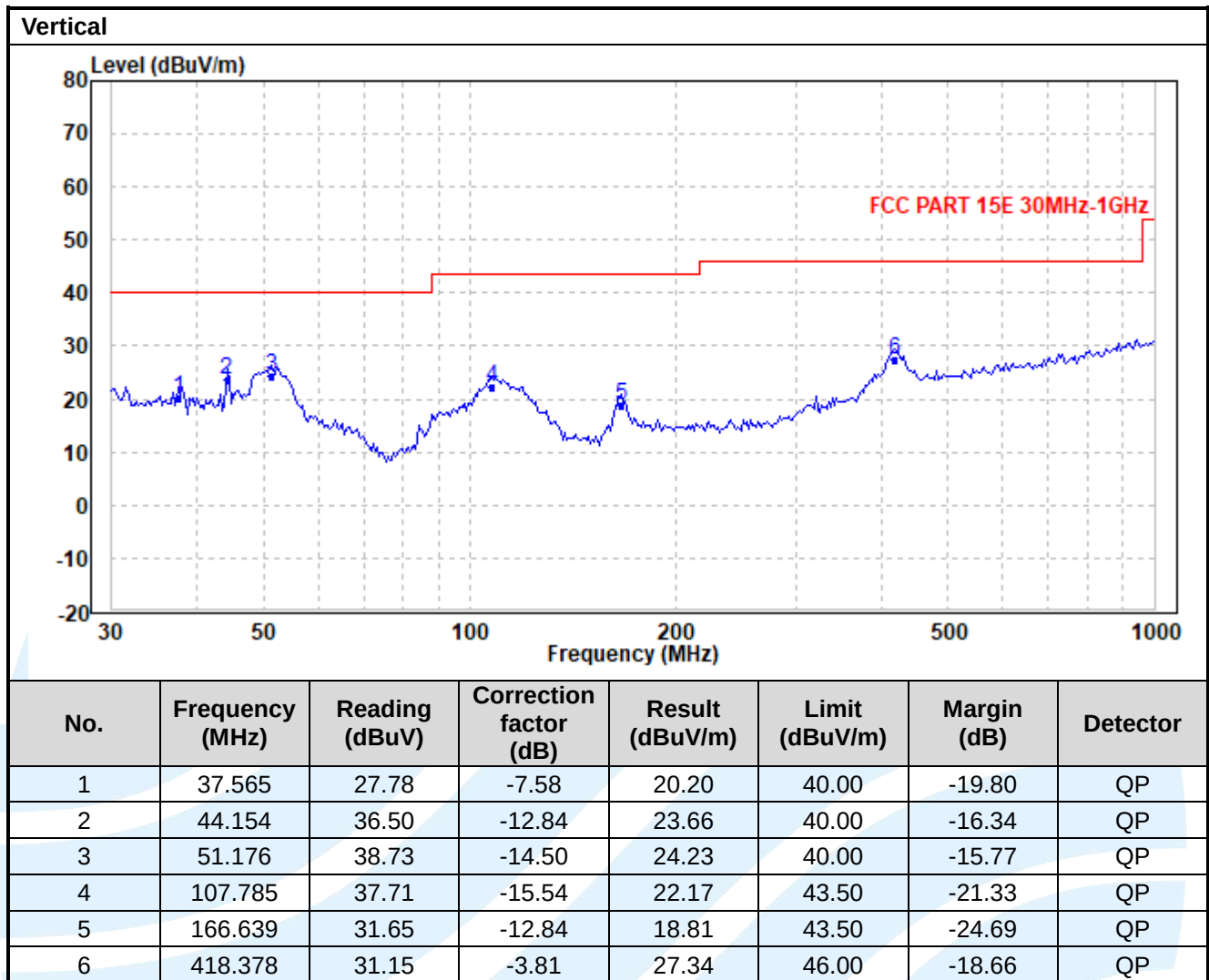
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Radiated Emission Test Data (Above 1GHz):								
No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
TX1_5G_A 5180 MHz 10360 MHz 15540 MHz								
1	10360	32.56	3.38	35.94	54.00	-18.06	Average	Horizontal
2	10360	45.08	3.38	48.46	74.00	-25.54	Peak	Horizontal
3	15540	29.60	7.56	37.16	54.00	-16.84	Average	Horizontal
4	15540	41.63	7.56	49.19	74.00	-24.81	Peak	Horizontal
5	10360	32.49	3.38	35.87	54.00	-18.13	Average	Vertical
6	10360	44.60	3.38	47.98	74.00	-26.02	Peak	Vertical
7	15540	29.51	7.56	37.07	54.00	-16.93	Average	Vertical
8	15540	42.24	7.56	49.80	74.00	-24.20	Peak	Vertical
TX1_5G_A 5200 MHz 10400 MHz 15600 MHz								
1	10400	31.82	3.38	35.20	54.00	-18.80	Average	Horizontal
2	10400	41.83	3.38	45.21	74.00	-28.79	Peak	Horizontal
3	15600	30.06	7.51	37.57	54.00	-16.43	Average	Horizontal
4	15600	40.26	7.51	47.77	74.00	-26.23	Peak	Horizontal
5	10400	31.96	3.38	35.34	54.00	-18.66	Average	Vertical
6	10400	41.34	3.38	44.72	74.00	-29.28	Peak	Vertical
7	15600	30.06	7.51	37.57	54.00	-16.43	Average	Vertical
8	15600	40.89	7.51	48.40	74.00	-25.60	Peak	Vertical
TX1_5G_A 5240 MHz 10480 MHz 15720 MHz								
1	10480	31.51	3.39	34.90	54.00	-19.10	Average	Horizontal
2	10480	42.72	3.39	46.11	74.00	-27.89	Peak	Horizontal
3	15720	30.69	7.40	38.09	54.00	-15.91	Average	Horizontal
4	15720	42.00	7.40	49.40	74.00	-24.60	Peak	Horizontal
5	10480	31.55	3.39	34.94	54.00	-19.06	Average	Vertical
6	10480	42.14	3.39	45.53	74.00	-28.47	Peak	Vertical
7	15720	30.58	7.40	37.98	54.00	-16.02	Average	Vertical
8	15720	40.64	7.40	48.04	74.00	-25.96	Peak	Vertical
TX1_5G_A 5260 MHz 10520 MHz 15780 MHz								
1	10520	31.37	3.35	34.72	54.00	-19.28	Average	Horizontal
2	10520	41.90	3.35	45.25	74.00	-28.75	Peak	Horizontal
3	15780	30.98	7.35	38.33	54.00	-15.67	Average	Horizontal
4	15780	41.02	7.35	48.37	74.00	-25.63	Peak	Horizontal
5	10520	31.25	3.35	34.60	54.00	-19.40	Average	Vertical
6	10520	42.23	3.35	45.58	74.00	-28.42	Peak	Vertical
7	15780	30.97	7.35	38.32	54.00	-15.68	Average	Vertical
8	15780	41.74	7.35	49.09	74.00	-24.91	Peak	Vertical
TX1_5G_A 5280 MHz 10560 MHz 15840 MHz								
1	10560	31.18	3.28	34.46	54.00	-19.54	Average	Horizontal
2	10560	41.91	3.28	45.19	74.00	-28.81	Peak	Horizontal
3	15840	30.86	7.29	38.15	54.00	-15.85	Average	Horizontal
4	15840	41.04	7.29	48.33	74.00	-25.67	Peak	Horizontal
5	10560	31.00	3.28	34.28	54.00	-19.72	Average	Vertical
6	10560	41.75	3.28	45.03	74.00	-28.97	Peak	Vertical
7	15840	30.92	7.29	38.21	54.00	-15.79	Average	Vertical
8	15840	41.90	7.29	49.19	74.00	-24.81	Peak	Vertical
TX1_5G_A 5320 MHz 10640 MHz 15960 MHz								
1	10640	30.34	3.10	33.44	54.00	-20.56	Average	Horizontal
2	10640	44.20	3.10	47.30	74.00	-26.70	Peak	Horizontal
3	15960	30.69	7.19	37.88	54.00	-16.12	Average	Horizontal
4	15960	42.26	7.19	49.45	74.00	-24.55	Peak	Horizontal
5	10640	30.56	3.10	33.66	54.00	-20.34	Average	Vertical
6	10640	41.69	3.10	44.79	74.00	-29.21	Peak	Vertical
7	15960	30.61	7.19	37.80	54.00	-16.20	Average	Vertical

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8	15960	41.34	7.19	48.53	74.00	-25.47	Peak	Vertical
TX1_5G_A_5500 MHz 11000 MHz 16500 MHz								
1	11000	32.37	2.36	34.73	54.00	-19.27	Average	Horizontal
2	11000	42.96	2.36	45.32	74.00	-28.68	Peak	Horizontal
3	16500	31.13	8.00	39.13	54.00	-14.87	Average	Horizontal
4	16500	42.75	8.00	50.75	74.00	-23.25	Peak	Horizontal
5	11000	32.38	2.36	34.74	54.00	-19.26	Average	Vertical
6	11000	43.13	2.36	45.49	74.00	-28.51	Peak	Vertical
7	16500	31.06	8.00	39.06	54.00	-14.94	Average	Vertical
8	16500	41.64	8.00	49.64	74.00	-24.36	Peak	Vertical
TX1_5G_A_5580 MHz 11160 MHz 16740 MHz								
1	11160	30.70	2.25	32.95	54.00	-21.05	Average	Horizontal
2	11160	41.63	2.25	43.88	74.00	-30.12	Peak	Horizontal
3	16740	29.64	8.31	37.95	54.00	-16.05	Average	Horizontal
4	16740	40.32	8.31	48.63	74.00	-25.37	Peak	Horizontal
5	11160	30.73	2.25	32.98	54.00	-21.02	Average	Vertical
6	11160	42.64	2.25	44.89	74.00	-29.11	Peak	Vertical
7	16740	29.75	8.31	38.06	54.00	-15.94	Average	Vertical
8	16740	41.15	8.31	49.46	74.00	-24.54	Peak	Vertical
TX1_5G_A_5700 MHz 11400 MHz 17100 MHz								
1	11400	29.96	2.11	32.07	54.00	-21.93	Average	Horizontal
2	11400	39.59	2.11	41.70	74.00	-32.30	Peak	Horizontal
3	17100	29.83	8.79	38.62	54.00	-15.38	Average	Horizontal
4	17100	41.34	8.79	50.13	74.00	-23.87	Peak	Horizontal
5	11400	30.16	2.11	32.27	54.00	-21.73	Average	Vertical
6	11400	40.92	2.11	43.03	74.00	-30.97	Peak	Vertical
7	17100	29.79	8.79	38.58	54.00	-15.42	Average	Vertical
8	17100	40.39	8.79	49.18	74.00	-24.82	Peak	Vertical
TX1_5G_A_5720 MHz 11440 MHz 17160 MHz								
1	11440	30.04	2.09	32.13	54.00	-21.87	Average	Horizontal
2	11440	40.13	2.09	42.22	74.00	-31.78	Peak	Horizontal
3	17160	29.88	8.88	38.76	54.00	-15.24	Average	Horizontal
4	17160	40.59	8.88	49.47	74.00	-24.53	Peak	Horizontal
5	11440	29.96	2.09	32.05	54.00	-21.95	Average	Vertical
6	11440	39.43	2.09	41.52	74.00	-32.48	Peak	Vertical
7	17160	29.72	8.88	38.60	54.00	-15.40	Average	Vertical
8	17160	40.14	8.88	49.02	74.00	-24.98	Peak	Vertical
TX1_5G_A_5745 MHz 11490 MHz 17235 MHz								
1	11490	29.44	2.06	31.50	54.00	-22.50	Average	Horizontal
2	11490	39.64	2.06	41.70	74.00	-32.30	Peak	Horizontal
3	17235	30.22	8.99	39.21	54.00	-14.79	Average	Horizontal
4	17235	41.83	8.99	50.82	74.00	-23.18	Peak	Horizontal
5	11490	29.37	2.06	31.43	54.00	-22.57	Average	Vertical
6	11490	40.05	2.06	42.11	74.00	-31.89	Peak	Vertical
7	17235	30.14	8.99	39.13	54.00	-14.87	Average	Vertical
8	17235	40.91	8.99	49.90	74.00	-24.10	Peak	Vertical
TX1_5G_A_5785 MHz 11570 MHz 17355 MHz								
1	11570	30.86	2.05	32.91	54.00	-21.09	Average	Horizontal
2	11570	41.47	2.05	43.52	74.00	-30.48	Peak	Horizontal
3	17355	29.71	9.16	38.87	54.00	-15.13	Average	Horizontal
4	17355	39.11	9.16	48.27	74.00	-25.73	Peak	Horizontal
5	11570	30.97	2.05	33.02	54.00	-20.98	Average	Vertical
6	11570	41.54	2.05	43.59	74.00	-30.41	Peak	Vertical
7	17355	29.87	9.16	39.03	54.00	-14.97	Average	Vertical
8	17355	40.09	9.16	49.25	74.00	-24.75	Peak	Vertical
TX1_5G_A_5825 MHz 11650 MHz 17475 MHz								
1	11650	31.27	2.08	33.35	54.00	-20.65	Average	Horizontal

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2	11650	42.43	2.08	44.51	74.00	-29.49	Peak	Horizontal
3	17475	29.50	9.33	38.83	54.00	-15.17	Average	Horizontal
4	17475	40.05	9.33	49.38	74.00	-24.62	Peak	Horizontal
5	11650	31.30	2.08	33.38	54.00	-20.62	Average	Vertical
6	11650	40.69	2.08	42.77	74.00	-31.23	Peak	Vertical
7	17475	29.69	9.33	39.02	54.00	-14.98	Average	Vertical
8	17475	39.38	9.33	48.71	74.00	-25.29	Peak	Vertical
TX2_5G_A_5180 MHz 10360 MHz 15540 MHz								
1	10360	32.34	3.38	35.72	54.00	-18.28	Average	Horizontal
2	10360	44.31	3.38	47.69	74.00	-26.31	Peak	Horizontal
3	15540	29.46	7.56	37.02	54.00	-16.98	Average	Horizontal
4	15540	40.95	7.56	48.51	74.00	-25.49	Peak	Horizontal
5	10360	32.28	3.38	35.66	54.00	-18.34	Average	Vertical
6	10360	42.08	3.38	45.46	74.00	-28.54	Peak	Vertical
7	15540	29.37	7.56	36.93	54.00	-17.07	Average	Vertical
8	15540	40.23	7.56	47.79	74.00	-26.21	Peak	Vertical
TX2_5G_A_5200 MHz 10400 MHz 15600 MHz								
1	10400	31.70	3.38	35.08	54.00	-18.92	Average	Horizontal
2	10400	41.89	3.38	45.27	74.00	-28.73	Peak	Horizontal
3	15600	30.01	7.51	37.52	54.00	-16.48	Average	Horizontal
4	15600	40.57	7.51	48.08	74.00	-25.92	Peak	Horizontal
5	10400	31.82	3.38	35.20	54.00	-18.80	Average	Vertical
6	10400	43.07	3.38	46.45	74.00	-27.55	Peak	Vertical
7	15600	29.97	7.51	37.48	54.00	-16.52	Average	Vertical
8	15600	40.87	7.51	48.38	74.00	-25.62	Peak	Vertical
TX2_5G_A_5240 MHz 10480 MHz 15720 MHz								
1	10480	31.44	3.39	34.83	54.00	-19.17	Average	Horizontal
2	10480	41.41	3.39	44.80	74.00	-29.20	Peak	Horizontal
3	15720	30.55	7.40	37.95	54.00	-16.05	Average	Horizontal
4	15720	40.78	7.40	48.18	74.00	-25.82	Peak	Horizontal
5	10480	31.57	3.39	34.96	54.00	-19.04	Average	Vertical
6	10480	42.96	3.39	46.35	74.00	-27.65	Peak	Vertical
7	15720	30.64	7.40	38.04	54.00	-15.96	Average	Vertical
8	15720	41.69	7.40	49.09	74.00	-24.91	Peak	Vertical
TX2_5G_A_5260 MHz 10520 MHz 15780 MHz								
1	10520	31.39	3.35	34.74	54.00	-19.26	Average	Horizontal
2	10520	41.80	3.35	45.15	74.00	-28.85	Peak	Horizontal
3	15780	30.84	7.35	38.19	54.00	-15.81	Average	Horizontal
4	15780	40.97	7.35	48.32	74.00	-25.68	Peak	Horizontal
5	10520	31.40	3.35	34.75	54.00	-19.25	Average	Vertical
6	10520	41.20	3.35	44.55	74.00	-29.45	Peak	Vertical
7	15780	30.81	7.35	38.16	54.00	-15.84	Average	Vertical
8	15780	40.85	7.35	48.20	74.00	-25.80	Peak	Vertical
TX2_5G_A_5280 MHz 10560 MHz 15840 MHz								
1	10560	31.23	3.28	34.51	54.00	-19.49	Average	Horizontal
2	10560	42.89	3.28	46.17	74.00	-27.83	Peak	Horizontal
3	15840	30.85	7.29	38.14	54.00	-15.86	Average	Horizontal
4	15840	41.19	7.29	48.48	74.00	-25.52	Peak	Horizontal
5	10560	30.99	3.28	34.27	54.00	-19.73	Average	Vertical
6	10560	40.81	3.28	44.09	74.00	-29.91	Peak	Vertical
7	15840	30.82	7.29	38.11	54.00	-15.89	Average	Vertical
8	15840	43.12	7.29	50.41	74.00	-23.59	Peak	Vertical
TX2_5G_A_5320 MHz 10640 MHz 15960 MHz								
1	10640	30.59	3.10	33.69	54.00	-20.31	Average	Horizontal
2	10640	41.67	3.10	44.77	74.00	-29.23	Peak	Horizontal
3	15960	30.73	7.19	37.92	54.00	-16.08	Average	Horizontal
4	15960	41.31	7.19	48.50	74.00	-25.50	Peak	Horizontal

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5	10640	30.43	3.10	33.53	54.00	-20.47	Average	Vertical
6	10640	41.01	3.10	44.11	74.00	-29.89	Peak	Vertical
7	15960	30.77	7.19	37.96	54.00	-16.04	Average	Vertical
8	15960	42.12	7.19	49.31	74.00	-24.69	Peak	Vertical
TX2_5G_A_5500 MHz 11000 MHz 16500 MHz								
1	11000	32.38	2.36	34.74	54.00	-19.26	Average	Horizontal
2	11000	43.79	2.36	46.15	74.00	-27.85	Peak	Horizontal
3	16500	31.10	8.00	39.10	54.00	-14.90	Average	Horizontal
4	16500	40.87	8.00	48.87	74.00	-25.13	Peak	Horizontal
5	11000	32.32	2.36	34.68	54.00	-19.32	Average	Vertical
6	11000	42.03	2.36	44.39	74.00	-29.61	Peak	Vertical
7	16500	31.10	8.00	39.10	54.00	-14.90	Average	Vertical
8	16500	41.43	8.00	49.43	74.00	-24.57	Peak	Vertical
TX2_5G_A_5580 MHz 11160 MHz 16740 MHz								
1	11160	30.84	2.25	33.09	54.00	-20.91	Average	Horizontal
2	11160	40.65	2.25	42.90	74.00	-31.10	Peak	Horizontal
3	16740	29.88	8.31	38.19	54.00	-15.81	Average	Horizontal
4	16740	39.93	8.31	48.24	74.00	-25.76	Peak	Horizontal
5	11160	30.75	2.25	33.00	54.00	-21.00	Average	Vertical
6	11160	41.75	2.25	44.00	74.00	-30.00	Peak	Vertical
7	16740	29.86	8.31	38.17	54.00	-15.83	Average	Vertical
8	16740	40.71	8.31	49.02	74.00	-24.98	Peak	Vertical
TX2_5G_A_5700 MHz 11400 MHz 17100 MHz								
1	11400	30.12	2.11	32.23	54.00	-21.77	Average	Horizontal
2	11400	40.53	2.11	42.64	74.00	-31.36	Peak	Horizontal
3	17100	29.81	8.79	38.60	54.00	-15.40	Average	Horizontal
4	17100	39.64	8.79	48.43	74.00	-25.57	Peak	Horizontal
5	11400	30.15	2.11	32.26	54.00	-21.74	Average	Vertical
6	11400	41.29	2.11	43.40	74.00	-30.60	Peak	Vertical
7	17100	29.75	8.79	38.54	54.00	-15.46	Average	Vertical
8	17100	40.05	8.79	48.84	74.00	-25.16	Peak	Vertical
TX2_5G_A_5720 MHz 11440 MHz 17160 MHz								
1	11440	29.99	2.09	32.08	54.00	-21.92	Average	Horizontal
2	11440	39.88	2.09	41.97	74.00	-32.03	Peak	Horizontal
3	17160	29.93	8.88	38.81	54.00	-15.19	Average	Horizontal
4	17160	40.11	8.88	48.99	74.00	-25.01	Peak	Horizontal
5	11440	30.05	2.09	32.14	54.00	-21.86	Average	Vertical
6	11440	40.66	2.09	42.75	74.00	-31.25	Peak	Vertical
7	17160	29.77	8.88	38.65	54.00	-15.35	Average	Vertical
8	17160	40.26	8.88	49.14	74.00	-24.86	Peak	Vertical
TX2_5G_A_5745 MHz 11490 MHz 17235 MHz								
1	11490	29.26	2.06	31.32	54.00	-22.68	Average	Horizontal
2	11490	39.66	2.06	41.72	74.00	-32.28	Peak	Horizontal
3	17235	30.09	8.99	39.08	54.00	-14.92	Average	Horizontal
4	17235	42.56	8.99	51.55	74.00	-22.45	Peak	Horizontal
5	11490	29.37	2.06	31.43	54.00	-22.57	Average	Vertical
6	11490	40.72	2.06	42.78	74.00	-31.22	Peak	Vertical
7	17235	30.09	8.99	39.08	54.00	-14.92	Average	Vertical
8	17235	42.03	8.99	51.02	74.00	-22.98	Peak	Vertical
TX2_5G_A_5785 MHz 11570 MHz 17355 MHz								
1	11570	30.92	2.05	32.97	54.00	-21.03	Average	Horizontal
2	11570	42.10	2.05	44.15	74.00	-29.85	Peak	Horizontal
3	17355	29.80	9.16	38.96	54.00	-15.04	Average	Horizontal
4	17355	40.38	9.16	49.54	74.00	-24.46	Peak	Horizontal
5	11570	30.75	2.05	32.80	54.00	-21.20	Average	Vertical
6	11570	41.89	2.05	43.94	74.00	-30.06	Peak	Vertical
7	17355	30.14	9.16	39.30	54.00	-14.70	Average	Vertical

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8	17355	39.92	9.16	49.08	74.00	-24.92	Peak	Vertical
TX2_5G_A_5825 MHz 11650 MHz 17475 MHz								
1	11650	31.37	2.08	33.45	54.00	-20.55	Average	Horizontal
2	11650	42.66	2.08	44.74	74.00	-29.26	Peak	Horizontal
3	17475	29.49	9.33	38.82	54.00	-15.18	Average	Horizontal
4	17475	40.67	9.33	50.00	74.00	-24.00	Peak	Horizontal
5	11650	31.29	2.08	33.37	54.00	-20.63	Average	Vertical
6	11650	41.83	2.08	43.91	74.00	-30.09	Peak	Vertical
7	17475	29.50	9.33	38.83	54.00	-15.17	Average	Vertical
8	17475	40.02	9.33	49.35	74.00	-24.65	Peak	Vertical

Radiated Emission Test Data (Above 1GHz):

No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
TX1TX2_5G_AC20_5180 MHz 10360 MHz 15540 MHz								
1	10360	33.03	3.38	36.41	54.00	-17.59	Average	Horizontal
2	10360	44.03	3.38	47.41	74.00	-26.59	Peak	Horizontal
3	15540	31.34	7.56	38.90	54.00	-15.10	Average	Horizontal
4	15540	42.36	7.56	49.92	74.00	-24.08	Peak	Horizontal
5	10360	32.57	3.38	35.95	54.00	-18.05	Average	Vertical
6	10360	44.67	3.38	48.05	74.00	-25.95	Peak	Vertical
7	15540	30.81	7.56	38.37	54.00	-15.63	Average	Vertical
8	15540	42.22	7.56	49.78	74.00	-24.22	Peak	Vertical
TX1TX2_5G_AC20_5200 MHz 10400 MHz 15600 MHz								
1	10400	32.39	3.38	35.77	54.00	-18.23	Average	Horizontal
2	10400	44.69	3.38	48.07	74.00	-25.93	Peak	Horizontal
3	15600	30.82	7.51	38.33	54.00	-15.67	Average	Horizontal
4	15600	43.04	7.51	50.55	74.00	-23.45	Peak	Horizontal
5	10400	32.67	3.38	36.05	54.00	-17.95	Average	Vertical
6	10400	50.67	3.38	54.05	74.00	-19.95	Peak	Vertical
7	15600	30.90	7.51	38.41	54.00	-15.59	Average	Vertical
8	15600	44.61	7.51	52.12	74.00	-21.88	Peak	Vertical
TX1TX2_5G_AC20_5240 MHz 10480 MHz 15720 MHz								
1	10480	31.82	3.39	35.21	54.00	-18.79	Average	Horizontal
2	10480	42.84	3.39	46.23	74.00	-27.77	Peak	Horizontal
3	15720	31.45	7.40	38.85	54.00	-15.15	Average	Horizontal
4	15720	43.27	7.40	50.67	74.00	-23.33	Peak	Horizontal
5	10480	32.18	3.39	35.57	54.00	-18.43	Average	Vertical
6	10480	43.55	3.39	46.94	74.00	-27.06	Peak	Vertical
7	15720	31.53	7.40	38.93	54.00	-15.07	Average	Vertical
8	15720	43.14	7.40	50.54	74.00	-23.46	Peak	Vertical
TX1TX2_5G_AC20_5260 MHz 10520 MHz 15780 MHz								
1	10520	32.04	3.35	35.39	54.00	-18.61	Average	Horizontal
2	10520	44.31	3.35	47.66	74.00	-26.34	Peak	Horizontal
3	15780	31.46	7.35	38.81	54.00	-15.19	Average	Horizontal
4	15780	42.91	7.35	50.26	74.00	-23.74	Peak	Horizontal
5	10520	31.97	3.35	35.32	54.00	-18.68	Average	Vertical
6	10520	43.70	3.35	47.05	74.00	-26.95	Peak	Vertical
7	15780	31.73	7.35	39.08	54.00	-14.92	Average	Vertical
8	15780	43.82	7.35	51.17	74.00	-22.83	Peak	Vertical
TX1TX2_5G_AC20_5280 MHz 10560 MHz 15840 MHz								
1	10560	32.06	3.28	35.34	54.00	-18.66	Average	Horizontal
2	10560	42.25	3.28	45.53	74.00	-28.47	Peak	Horizontal
3	15840	30.84	7.29	38.13	54.00	-15.87	Average	Horizontal
4	15840	41.84	7.29	49.13	74.00	-24.87	Peak	Horizontal

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5	10560	32.16	3.28	35.44	54.00	-18.56	Average	Vertical
6	10560	43.64	3.28	46.92	74.00	-27.08	Peak	Vertical
7	15840	31.12	7.29	38.41	54.00	-15.59	Average	Vertical
8	15840	41.91	7.29	49.20	74.00	-24.80	Peak	Vertical
TX1TX2_5G_AC20_5320 MHz 10640 MHz 15960 MHz								
1	10640	31.82	3.10	34.92	54.00	-19.08	Average	Horizontal
2	10640	45.50	3.10	48.60	74.00	-25.40	Peak	Horizontal
3	15960	30.47	7.19	37.66	54.00	-16.34	Average	Horizontal
4	15960	43.37	7.19	50.56	74.00	-23.44	Peak	Horizontal
5	10640	32.18	3.10	35.28	54.00	-18.72	Average	Vertical
6	10640	46.32	3.10	49.42	74.00	-24.58	Peak	Vertical
7	15960	30.47	7.19	37.66	54.00	-16.34	Average	Vertical
8	15960	43.13	7.19	50.32	74.00	-23.68	Peak	Vertical
TX1TX2_5G_AC20_5500 MHz 11000 MHz 16500 MHz								
1	11000	32.87	2.36	35.23	54.00	-18.77	Average	Horizontal
2	11000	43.78	2.36	46.14	74.00	-27.86	Peak	Horizontal
3	16500	31.29	8.00	39.29	54.00	-14.71	Average	Horizontal
4	16500	42.68	8.00	50.68	74.00	-23.32	Peak	Horizontal
5	11000	34.40	2.36	36.76	54.00	-17.24	Average	Vertical
6	11000	48.02	2.36	50.38	74.00	-23.62	Peak	Vertical
7	16500	31.13	8.00	39.13	54.00	-14.87	Average	Vertical
8	16500	42.73	8.00	50.73	74.00	-23.27	Peak	Vertical
TX1TX2_5G_AC20_5580 MHz 11160 MHz 16740 MHz								
1	11000	32.87	2.36	35.23	54.00	-18.77	Average	Horizontal
2	11160	42.77	2.25	45.02	74.00	-28.98	Peak	Horizontal
3	16500	31.29	8.00	39.29	54.00	-14.71	Average	Horizontal
4	16740	42.08	8.31	50.39	74.00	-23.61	Peak	Horizontal
5	11160	32.10	2.25	34.35	54.00	-19.65	Average	Vertical
6	11160	43.74	2.25	45.99	74.00	-28.01	Peak	Vertical
7	16740	30.40	8.31	38.71	54.00	-15.29	Average	Vertical
8	16740	41.71	8.31	50.02	74.00	-23.98	Peak	Vertical
TX1TX2_5G_AC20_5700 MHz 11400 MHz 17100 MHz								
1	11400	31.37	2.11	33.48	54.00	-20.52	Average	Horizontal
2	11400	42.72	2.11	44.83	74.00	-29.17	Peak	Horizontal
3	17100	30.86	8.79	39.65	54.00	-14.35	Average	Horizontal
4	17100	42.94	8.79	51.73	74.00	-22.27	Peak	Horizontal
5	11400	31.79	2.11	33.90	54.00	-20.10	Average	Vertical
6	11400	44.07	2.11	46.18	74.00	-27.82	Peak	Vertical
7	17100	30.94	8.79	39.73	54.00	-14.27	Average	Vertical
8	17100	43.26	8.79	52.05	74.00	-21.95	Peak	Vertical
TX1TX2_5G_AC20_5720 MHz 11440 MHz 17160 MHz								
1	11440	29.96	2.09	32.05	54.00	-21.95	Average	Horizontal
2	11440	41.30	2.09	43.39	74.00	-30.61	Peak	Horizontal
3	17160	30.12	8.88	39.00	54.00	-15.00	Average	Horizontal
4	17160	39.77	8.88	48.65	74.00	-25.35	Peak	Horizontal
5	11440	30.17	2.09	32.26	54.00	-21.74	Average	Vertical
6	11440	39.64	2.09	41.73	74.00	-32.27	Peak	Vertical
7	17160	29.78	8.88	38.66	54.00	-15.34	Average	Vertical
8	17160	41.20	8.88	50.08	74.00	-23.92	Peak	Vertical
TX1TX2_5G_AC20_5745 MHz 11490 MHz 17235 MHz								
1	11490	31.89	2.06	33.95	54.00	-20.05	Average	Horizontal
2	11490	45.30	2.06	47.36	74.00	-26.64	Peak	Horizontal
3	17235	30.65	8.99	39.64	54.00	-14.36	Average	Horizontal
4	17235	43.35	8.99	52.34	74.00	-21.66	Peak	Horizontal
5	11490	32.14	2.06	34.20	54.00	-19.80	Average	Vertical
6	11490	44.04	2.06	46.10	74.00	-27.90	Peak	Vertical
7	17235	30.57	8.99	39.56	54.00	-14.44	Average	Vertical

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8	17235	41.14	8.99	50.13	74.00	-23.87	Peak	Vertical
TX1TX2_5G_AC20_5785 MHz 11570 MHz 17355 MHz								
1	11570	32.02	2.05	34.07	54.00	-19.93	Average	Horizontal
2	11570	44.49	2.05	46.54	74.00	-27.46	Peak	Horizontal
3	17355	30.63	9.16	39.79	54.00	-14.21	Average	Horizontal
4	17355	42.68	9.16	51.84	74.00	-22.16	Peak	Horizontal
5	11570	31.72	2.05	33.77	54.00	-20.23	Average	Vertical
6	11570	43.29	2.05	45.34	74.00	-28.66	Peak	Vertical
7	17355	30.46	9.16	39.62	54.00	-14.38	Average	Vertical
8	17355	42.40	9.16	51.56	74.00	-22.44	Peak	Vertical
TX1TX2_5G_AC20_5825 MHz 11650 MHz 17475 MHz								
1	11650	32.00	2.08	34.08	54.00	-19.92	Average	Horizontal
2	11650	43.40	2.08	45.48	74.00	-28.52	Peak	Horizontal
3	17475	29.41	9.33	38.74	54.00	-15.26	Average	Horizontal
4	17475	41.71	9.33	51.04	74.00	-22.96	Peak	Horizontal
5	11650	32.07	2.08	34.15	54.00	-19.85	Average	Vertical
6	11650	44.48	2.08	46.56	74.00	-27.44	Peak	Vertical
7	17475	29.36	9.33	38.69	54.00	-15.31	Average	Vertical
8	17475	40.54	9.33	49.87	74.00	-24.13	Peak	Vertical
TX1TX2_5G_AC40_5190 MHz 10380 MHz 15570 MHz								
1	10380	33.22	3.38	36.60	54.00	-17.40	Average	Horizontal
2	10380	43.14	3.38	46.52	74.00	-27.48	Peak	Horizontal
3	15570	30.75	7.54	38.29	54.00	-15.71	Average	Horizontal
4	15570	41.77	7.54	49.31	74.00	-24.69	Peak	Horizontal
5	10380	33.25	3.38	36.63	54.00	-17.37	Average	Vertical
6	10380	45.20	3.38	48.58	74.00	-25.42	Peak	Vertical
7	15570	30.87	7.54	38.41	54.00	-15.59	Average	Vertical
8	15570	42.37	7.54	49.91	74.00	-24.09	Peak	Vertical
TX1TX2_5G_AC40_5230 MHz 10460 MHz 15690 MHz								
1	10460	33.37	3.40	36.77	54.00	-17.23	Average	Horizontal
2	10460	44.07	3.40	47.47	74.00	-26.53	Peak	Horizontal
3	15690	31.59	7.42	39.01	54.00	-14.99	Average	Horizontal
4	15690	43.36	7.42	50.78	74.00	-23.22	Peak	Horizontal
5	10460	33.64	3.40	37.04	54.00	-16.96	Average	Vertical
6	10460	45.91	3.40	49.31	74.00	-24.69	Peak	Vertical
7	15690	31.74	7.42	39.16	54.00	-14.84	Average	Vertical
8	15690	43.09	7.42	50.51	74.00	-23.49	Peak	Vertical
TX1TX2_5G_AC40_5270 MHz 10540 MHz 15810 MHz								
1	10540	32.00	3.30	35.30	54.00	-18.70	Average	Horizontal
2	10540	42.86	3.30	46.16	74.00	-27.84	Peak	Horizontal
3	15810	30.92	7.33	38.25	54.00	-15.75	Average	Horizontal
4	15810	42.69	7.33	50.02	74.00	-23.98	Peak	Horizontal
5	10540	32.89	3.30	36.19	54.00	-17.81	Average	Vertical
6	10540	45.43	3.30	48.73	74.00	-25.27	Peak	Vertical
7	15810	30.88	7.33	38.21	54.00	-15.79	Average	Vertical
8	15810	42.88	7.33	50.21	74.00	-23.79	Peak	Vertical
TX1TX2_5G_AC40_5310 MHz 10620 MHz 15930 MHz								
1	10620	31.96	3.14	35.10	54.00	-18.90	Average	Horizontal
2	10620	43.14	3.14	46.28	74.00	-27.72	Peak	Horizontal
3	15930	30.23	7.21	37.44	54.00	-16.56	Average	Horizontal
4	15930	42.63	7.21	49.84	74.00	-24.16	Peak	Horizontal
5	10620	32.35	3.14	35.49	54.00	-18.51	Average	Vertical
6	10620	44.18	3.14	47.32	74.00	-26.68	Peak	Vertical
7	15930	30.32	7.21	37.53	54.00	-16.47	Average	Vertical
8	15930	42.26	7.21	49.47	74.00	-24.53	Peak	Vertical
TX1TX2_5G_AC40_5510 MHz 11020 MHz 16530 MHz								
1	11020	32.81	2.35	35.16	54.00	-18.84	Average	Horizontal

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2	11020	43.75	2.35	46.10	74.00	-27.90	Peak	Horizontal
3	16530	31.21	8.04	39.25	54.00	-14.75	Average	Horizontal
4	16530	43.19	8.04	51.23	74.00	-22.77	Peak	Horizontal
5	11020	33.81	2.35	36.16	54.00	-17.84	Average	Vertical
6	11020	46.94	2.35	49.29	74.00	-24.71	Peak	Vertical
7	16530	31.29	8.04	39.33	54.00	-14.67	Average	Vertical
8	16530	42.34	8.04	50.38	74.00	-23.62	Peak	Vertical
TX1TX2_5G_AC40_5550 MHz 11100 MHz 16650 MHz								
1	11100	31.57	2.30	33.87	54.00	-20.13	Average	Horizontal
2	11100	43.86	2.30	46.16	74.00	-27.84	Peak	Horizontal
3	16650	30.51	8.20	38.71	54.00	-15.29	Average	Horizontal
4	16650	41.36	8.20	49.56	74.00	-24.44	Peak	Horizontal
5	11100	32.41	2.30	34.71	54.00	-19.29	Average	Vertical
6	11100	44.93	2.30	47.23	74.00	-26.77	Peak	Vertical
7	16650	30.55	8.20	38.75	54.00	-15.25	Average	Vertical
8	16650	42.14	8.20	50.34	74.00	-23.66	Peak	Vertical
TX1TX2_5G_AC40_5670 MHz 11340 MHz 17010 MHz								
1	11340	31.44	2.16	33.60	54.00	-20.40	Average	Horizontal
2	11340	44.58	2.16	46.74	74.00	-27.26	Peak	Horizontal
3	17010	30.80	8.67	39.47	54.00	-14.53	Average	Horizontal
4	17010	44.12	8.67	52.79	74.00	-21.21	Peak	Horizontal
5	11340	31.44	2.16	33.60	54.00	-20.40	Average	Vertical
6	11340	43.94	2.16	46.10	74.00	-27.90	Peak	Vertical
7	17010	30.68	8.67	39.35	54.00	-14.65	Average	Vertical
8	17010	42.62	8.67	51.29	74.00	-22.71	Peak	Vertical
TX1TX2_5G_AC40_5710 MHz 11420 MHz 17130 MHz								
1	11420	30.19	2.10	32.29	54.00	-21.71	Average	Horizontal
2	11420	40.80	2.10	42.90	74.00	-31.10	Peak	Horizontal
3	17130	29.68	8.84	38.52	54.00	-15.48	Average	Horizontal
4	17130	40.10	8.84	48.94	74.00	-25.06	Peak	Horizontal
5	11420	30.02	2.10	32.12	54.00	-21.88	Average	Vertical
6	11420	40.45	2.10	42.55	74.00	-31.45	Peak	Vertical
7	17130	29.85	8.84	38.69	54.00	-15.31	Average	Vertical
8	17130	40.46	8.84	49.30	74.00	-24.70	Peak	Vertical
TX1TX2_5G_AC40_5755 MHz 11510 MHz 17265 MHz								
1	11510	32.15	2.05	34.20	54.00	-19.80	Average	Horizontal
2	11510	46.05	2.05	48.10	74.00	-25.90	Peak	Horizontal
3	17265	30.40	9.03	39.43	54.00	-14.57	Average	Horizontal
4	17265	43.00	9.03	52.03	74.00	-21.97	Peak	Horizontal
5	11510	32.47	2.05	34.52	54.00	-19.48	Average	Vertical
6	11510	43.53	2.05	45.58	74.00	-28.42	Peak	Vertical
7	17265	30.44	9.03	39.47	54.00	-14.53	Average	Vertical
8	17265	40.82	9.03	49.85	74.00	-24.15	Peak	Vertical
TX1TX2_5G_AC40_5795 MHz 11590 MHz 17385 MHz								
1	11590	31.96	2.07	34.03	54.00	-19.97	Average	Horizontal
2	11590	42.73	2.07	44.80	74.00	-29.20	Peak	Horizontal
3	17385	30.32	9.21	39.53	54.00	-14.47	Average	Horizontal
4	17385	42.22	9.21	51.43	74.00	-22.57	Peak	Horizontal
5	11590	31.93	2.07	34.00	54.00	-20.00	Average	Vertical
6	11590	42.56	2.07	44.63	74.00	-29.37	Peak	Vertical
7	17385	30.45	9.21	39.66	54.00	-14.34	Average	Vertical
8	17385	41.60	9.21	50.81	74.00	-23.19	Peak	Vertical
TX1TX2_5G_AC80_5210 MHz 10420 MHz 15630 MHz								
1	10420	33.28	3.39	36.67	54.00	-17.33	Average	Horizontal
2	10420	45.29	3.39	48.68	74.00	-25.32	Peak	Horizontal
3	15630	31.49	7.48	38.97	54.00	-15.03	Average	Horizontal
4	15630	43.20	7.48	50.68	74.00	-23.32	Peak	Horizontal

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5	10420	33.34	3.39	36.73	54.00	-17.27	Average	Vertical
6	10420	44.43	3.39	47.82	74.00	-26.18	Peak	Vertical
7	15630	31.60	7.48	39.08	54.00	-14.92	Average	Vertical
8	15630	43.16	7.48	50.64	74.00	-23.36	Peak	Vertical
TX1TX2_5G_AC80_5290 MHz 10580 MHz 15870 MHz								
1	10580	32.03	3.23	35.26	54.00	-18.74	Average	Horizontal
2	10580	45.71	3.23	48.94	74.00	-25.06	Peak	Horizontal
3	15870	30.94	7.27	38.21	54.00	-15.79	Average	Horizontal
4	15870	43.81	7.27	51.08	74.00	-22.92	Peak	Horizontal
5	10580	32.18	3.23	35.41	54.00	-18.59	Average	Vertical
6	10580	43.30	3.23	46.53	74.00	-27.47	Peak	Vertical
7	15870	30.98	7.27	38.25	54.00	-15.75	Average	Vertical
8	15870	42.44	7.27	49.71	74.00	-24.29	Peak	Vertical
TX1TX2_5G_AC80_5530 MHz 11060 MHz 16590 MHz								
1	11060	32.53	2.32	34.85	54.00	-19.15	Average	Horizontal
2	11060	43.42	2.32	45.74	74.00	-28.26	Peak	Horizontal
3	16590	30.03	8.11	38.14	54.00	-15.86	Average	Horizontal
4	16590	40.88	8.11	48.99	74.00	-25.01	Peak	Horizontal
5	11060	32.36	2.32	34.68	54.00	-19.32	Average	Horizontal
6	11060	45.38	2.32	47.70	74.00	-26.30	Peak	Vertical
7	16590	29.94	8.11	38.05	54.00	-15.95	Average	Horizontal
8	16590	41.65	8.11	49.76	74.00	-24.24	Peak	Vertical
TX1TX2_5G_AC80_5610 MHz 11220 MHz 16830 MHz								
1	11220	30.69	2.22	32.91	54.00	-21.09	Average	Horizontal
2	11220	40.59	2.22	42.81	74.00	-31.19	Peak	Horizontal
3	16830	30.66	8.43	39.09	54.00	-14.91	Average	Horizontal
4	16830	41.47	8.43	49.90	74.00	-24.10	Peak	Horizontal
5	11220	30.69	2.22	32.91	54.00	-21.09	Average	Vertical
6	11220	41.82	2.22	44.04	74.00	-29.96	Peak	Vertical
7	16830	30.79	8.43	39.22	54.00	-14.78	Average	Vertical
8	16830	41.98	8.43	50.41	74.00	-23.59	Peak	Vertical
TX1TX2_5G_AC80_5690 MHz 11380 MHz 17070 MHz								
1	11380	30.04	2.13	32.17	54.00	-21.83	Average	Horizontal
2	11380	40.55	2.13	42.68	74.00	-31.32	Peak	Horizontal
3	17070	29.90	8.75	38.65	54.00	-15.35	Average	Horizontal
4	17070	40.70	8.75	49.45	74.00	-24.55	Peak	Horizontal
5	11380	30.18	2.13	32.31	54.00	-21.69	Average	Vertical
6	11380	41.37	2.13	43.50	74.00	-30.50	Peak	Vertical
7	17070	30.00	8.75	38.75	54.00	-15.25	Average	Vertical
8	17070	40.78	8.75	49.53	74.00	-24.47	Peak	Vertical
TX1TX2_5G_AC80_5775 MHz 11550 MHz 17325 MHz								
1	11550	31.92	2.06	33.98	54.00	-20.02	Average	Horizontal
2	11550	43.74	2.06	45.80	74.00	-28.20	Peak	Horizontal
3	17325	30.31	9.12	39.43	54.00	-14.57	Average	Horizontal
4	17325	41.47	9.12	50.59	74.00	-23.41	Peak	Horizontal
5	11550	32.21	2.06	34.27	54.00	-19.73	Average	Vertical
6	11550	43.08	2.06	45.14	74.00	-28.86	Peak	Vertical
7	17325	30.52	9.12	39.64	54.00	-14.36	Average	Vertical
8	17325	41.96	9.12	51.08	74.00	-22.92	Peak	Vertical

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Radiated Emission Test Data (Above 1GHz):								
No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
TX1TX2_5G_AX20_5180 MHz 10360 MHz 15540 MHz								
1	10360	37.63	3.38	41.01	54.00	-12.99	Average	Horizontal
2	10360	51.68	3.38	55.06	74.00	-18.94	Peak	Horizontal
3	15540	31.41	7.56	38.97	54.00	-15.03	Average	Horizontal
4	15540	44.14	7.56	51.70	74.00	-22.30	Peak	Horizontal
5	10360	39.19	3.38	42.57	54.00	-11.43	Average	Vertical
6	10360	53.21	3.38	56.59	74.00	-17.41	Peak	Vertical
7	15540	31.45	7.56	39.01	54.00	-14.99	Average	Vertical
8	15540	44.90	7.56	52.46	74.00	-21.54	Peak	Vertical
TX1TX2_5G_AX20_5200 MHz 10400 MHz 15600 MHz								
1	10400	38.41	3.38	41.79	54.00	-12.21	Average	Horizontal
2	10400	52.77	3.38	56.15	74.00	-17.85	Peak	Horizontal
3	15600	32.13	7.51	39.64	54.00	-14.36	Average	Horizontal
4	15600	44.67	7.51	52.18	74.00	-21.82	Peak	Horizontal
5	10400	37.41	3.38	40.79	54.00	-13.21	Average	Vertical
6	10400	51.87	3.38	55.25	74.00	-18.75	Peak	Vertical
7	15600	32.49	7.51	40.00	54.00	-14.00	Average	Vertical
8	15600	44.48	7.51	51.99	74.00	-22.01	Peak	Vertical
TX1TX2_5G_AX20_5240 MHz 10480 MHz 15720 MHz								
1	10440	38.21	3.38	41.59	54.00	-12.41	Average	Horizontal
2	10480	49.59	3.39	52.98	74.00	-21.02	Peak	Horizontal
3	15660	31.77	7.46	39.23	54.00	-14.77	Average	Horizontal
4	15720	43.91	7.40	51.31	74.00	-22.69	Peak	Horizontal
5	10480	38.04	3.39	41.43	54.00	-12.57	Average	Vertical
6	10480	54.42	3.39	57.81	74.00	-16.19	Peak	Vertical
7	15720	31.41	7.40	38.81	54.00	-15.19	Average	Vertical
8	15720	49.41	7.40	56.81	74.00	-17.19	Peak	Vertical
TX1TX2_5G_AX20_5260 MHz 10520 MHz 15780 MHz								
1	10520	33.60	3.35	36.95	54.00	-17.05	Average	Horizontal
2	10520	49.33	3.35	52.68	74.00	-21.32	Peak	Horizontal
3	15780	31.58	7.35	38.93	54.00	-15.07	Average	Horizontal
4	15780	43.95	7.35	51.30	74.00	-22.70	Peak	Horizontal
5	10520	37.65	3.35	41.00	54.00	-13.00	Average	Vertical
6	10520	52.54	3.35	55.89	74.00	-18.11	Peak	Vertical
7	15780	31.99	7.35	39.34	54.00	-14.66	Average	Vertical
8	15780	49.93	7.35	57.28	74.00	-16.72	Peak	Vertical
TX1TX2_5G_AX20_5280 MHz 10560 MHz 15840 MHz								
1	10560	48.01	3.28	51.29	74.00	-22.71	Peak	Horizontal
2	15840	42.89	7.29	50.18	74.00	-23.82	Peak	Horizontal
3	10560	35.01	3.28	38.29	54.00	-15.71	Average	Vertical
4	10560	47.14	3.28	50.42	74.00	-23.58	Peak	Vertical
5	15840	31.16	7.29	38.45	54.00	-15.55	Average	Vertical
6	15840	42.89	7.29	50.18	74.00	-23.82	Peak	Vertical
TX1TX2_5G_AX20_5320 MHz 10640 MHz 15960 MHz								
1	10640	34.84	3.10	37.94	54.00	-16.06	Average	Horizontal
2	10640	48.08	3.10	51.18	74.00	-22.82	Peak	Horizontal
3	15960	30.25	7.19	37.44	54.00	-16.56	Average	Horizontal
4	15960	43.27	7.19	50.46	74.00	-23.54	Peak	Horizontal
5	10640	35.33	3.10	38.43	54.00	-15.57	Average	Vertical
6	10640	51.61	3.10	54.71	74.00	-19.29	Peak	Vertical
7	15960	30.38	7.19	37.57	54.00	-16.43	Average	Vertical
8	15960	44.73	7.19	51.92	74.00	-22.08	Peak	Vertical
TX1TX2_5G_AX20_5500 MHz 11000 MHz 16500 MHz								

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1	11000	39.44	2.36	41.80	54.00	-12.20	Average	Horizontal
2	11000	56.19	2.36	58.55	74.00	-15.45	Peak	Horizontal
3	16500	31.13	8.00	39.13	54.00	-14.87	Average	Horizontal
4	16500	43.06	8.00	51.06	74.00	-22.94	Peak	Horizontal
5	11000	41.12	2.36	43.48	54.00	-10.52	Average	Vertical
6	11000	57.00	2.36	59.36	74.00	-14.64	Peak	Vertical
7	16500	31.25	8.00	39.25	54.00	-14.75	Average	Vertical
8	16500	43.65	8.00	51.65	74.00	-22.35	Peak	Vertical
TX1TX2_5G_AX20_5580 MHz 11160 MHz 16740 MHz								
1	11160	36.35	2.25	38.60	54.00	-15.40	Average	Horizontal
2	11160	52.73	2.25	54.98	74.00	-19.02	Peak	Horizontal
3	16740	30.57	8.31	38.88	54.00	-15.12	Average	Horizontal
4	16740	43.34	8.31	51.65	74.00	-22.35	Peak	Horizontal
5	11160	35.21	2.25	37.46	54.00	-16.54	Average	Vertical
6	11160	50.17	2.25	52.42	74.00	-21.58	Peak	Vertical
7	16740	30.61	8.31	38.92	54.00	-15.08	Average	Vertical
8	16740	42.73	8.31	51.04	74.00	-22.96	Peak	Vertical
TX1TX2_5G_AX20_5700 MHz 11400 MHz 17100 MHz								
1	11400	34.16	2.11	36.27	54.00	-17.73	Average	Horizontal
2	11400	49.58	2.11	51.69	74.00	-22.31	Peak	Horizontal
3	17100	30.99	8.79	39.78	54.00	-14.22	Average	Horizontal
4	17100	42.76	8.79	51.55	74.00	-22.45	Peak	Horizontal
5	11400	35.15	2.11	37.26	54.00	-16.74	Average	Vertical
6	11400	49.98	2.11	52.09	74.00	-21.91	Peak	Vertical
7	17100	31.03	8.79	39.82	54.00	-14.18	Average	Vertical
8	17100	42.94	8.79	51.73	74.00	-22.27	Peak	Vertical
TX1TX2_5G_AX20_5720 MHz 11440 MHz 17160 MHz								
1	11440	33.82	2.09	35.91	54.00	-18.09	Average	Horizontal
2	11440	47.16	2.09	49.25	74.00	-24.75	Peak	Horizontal
3	17160	30.75	8.88	39.63	54.00	-14.37	Average	Horizontal
4	17160	43.71	8.88	52.59	74.00	-21.41	Peak	Horizontal
5	11440	34.87	2.09	36.96	54.00	-17.04	Average	Vertical
6	11440	47.90	2.09	49.99	74.00	-24.01	Peak	Vertical
7	17160	30.79	8.88	39.67	54.00	-14.33	Average	Vertical
8	17160	44.22	8.88	53.10	74.00	-20.90	Peak	Vertical
TX1TX2_5G_AX20_5745 MHz 11490 MHz 17235 MHz								
1	11490	33.02	2.06	35.08	54.00	-18.92	Average	Horizontal
2	11490	48.09	2.06	50.15	74.00	-23.85	Peak	Horizontal
3	17235	30.82	8.99	39.81	54.00	-14.19	Average	Horizontal
4	17235	42.73	8.99	51.72	74.00	-22.28	Peak	Horizontal
5	11490	32.93	2.06	34.99	54.00	-19.01	Average	Vertical
6	11490	46.92	2.06	48.98	74.00	-25.02	Peak	Vertical
7	17235	30.78	8.99	39.77	54.00	-14.23	Average	Vertical
8	17235	43.00	8.99	51.99	74.00	-22.01	Peak	Vertical
TX1TX2_5G_AX20_5785 MHz 11570 MHz 17355 MHz								
1	11570	33.82	2.05	35.87	54.00	-18.13	Average	Horizontal
2	11570	48.99	2.05	51.04	74.00	-22.96	Peak	Horizontal
3	17355	30.71	9.16	39.87	54.00	-14.13	Average	Horizontal
4	17355	43.24	9.16	52.40	74.00	-21.60	Peak	Horizontal
5	11570	34.39	2.05	36.44	54.00	-17.56	Average	Vertical
6	11570	49.06	2.05	51.11	74.00	-22.89	Peak	Vertical
7	17355	30.76	9.16	39.92	54.00	-14.08	Average	Vertical
8	17355	43.46	9.16	52.62	74.00	-21.38	Peak	Vertical
TX1TX2_5G_AX20_5825 MHz 11650 MHz 17475 MHz								
1	11650	34.03	2.08	36.11	54.00	-17.89	Average	Horizontal
2	11650	47.68	2.08	49.76	74.00	-24.24	Peak	Horizontal
3	17475	29.51	9.33	38.84	54.00	-15.16	Average	Horizontal

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4	17475	42.53	9.33	51.86	74.00	-22.14	Peak	Horizontal
5	11650	34.91	2.08	36.99	54.00	-17.01	Average	Vertical
6	11650	49.60	2.08	51.68	74.00	-22.32	Peak	Vertical
7	17475	29.46	9.33	38.79	54.00	-15.21	Average	Vertical
8	17475	42.91	9.33	52.24	74.00	-21.76	Peak	Vertical
TX1TX2_5G_AX40_5190 MHz 10380 MHz 15570 MHz								
1	10380	35.82	3.38	39.20	54.00	-14.80	Average	Horizontal
2	10380	47.38	3.38	50.76	74.00	-23.24	Peak	Horizontal
3	15570	31.36	7.54	38.90	54.00	-15.10	Average	Horizontal
4	15570	43.65	7.54	51.19	74.00	-22.81	Peak	Horizontal
5	10380	40.14	3.38	43.52	54.00	-10.48	Average	Vertical
6	10380	51.59	3.38	54.97	74.00	-19.03	Peak	Vertical
7	15570	31.39	7.54	38.93	54.00	-15.07	Average	Vertical
8	15570	43.51	7.54	51.05	74.00	-22.95	Peak	Vertical
TX1TX2_5G_AX40_5230 MHz 10460 MHz 15690 MHz								
1	10460	37.58	3.40	40.98	54.00	-13.02	Average	Horizontal
2	10460	50.85	3.40	54.25	74.00	-19.75	Peak	Horizontal
3	15690	32.29	7.42	39.71	54.00	-14.29	Average	Horizontal
4	15690	45.01	7.42	52.43	74.00	-21.57	Peak	Horizontal
5	10460	39.39	3.40	42.79	54.00	-11.21	Average	Vertical
6	10460	53.15	3.40	56.55	74.00	-17.45	Peak	Vertical
7	15690	33.22	7.42	40.64	54.00	-13.36	Average	Vertical
8	15690	47.82	7.42	55.24	74.00	-18.76	Peak	Vertical
TX1TX2_5G_AX40_5270 MHz 10540 MHz 15810 MHz								
1	10540	36.44	3.30	39.74	54.00	-14.26	Average	Vertical
2	10540	49.95	3.30	53.25	74.00	-20.75	Peak	Vertical
3	15810	30.71	7.33	38.04	54.00	-15.96	Average	Vertical
4	15810	43.24	7.33	50.57	74.00	-23.43	Peak	Vertical
5	10540	37.23	3.30	40.53	54.00	-13.47	Average	Vertical
6	10540	50.36	3.30	53.66	74.00	-20.34	Peak	Vertical
7	15810	30.75	7.33	38.08	54.00	-15.92	Average	Vertical
8	15810	42.82	7.33	50.15	74.00	-23.85	Peak	Vertical
TX1TX2_5G_AX40_5310 MHz 10620 MHz 15930 MHz								
1	10620	35.70	3.14	38.84	54.00	-15.16	Average	Horizontal
2	10620	47.95	3.14	51.09	74.00	-22.91	Peak	Horizontal
3	15930	30.14	7.21	37.35	54.00	-16.65	Average	Horizontal
4	15930	43.57	7.21	50.78	74.00	-23.22	Peak	Horizontal
5	10620	35.31	3.14	38.45	54.00	-15.55	Average	Vertical
6	10620	47.43	3.14	50.57	74.00	-23.43	Peak	Vertical
7	15930	30.05	7.21	37.26	54.00	-16.74	Average	Vertical
8	15930	43.57	7.21	50.78	74.00	-23.22	Peak	Vertical
TX1TX2_5G_AX40_5510 MHz 11020 MHz 16530 MHz								
1	11020	38.12	2.35	40.47	54.00	-13.53	Average	Horizontal
2	11020	53.80	2.35	56.15	74.00	-17.85	Peak	Horizontal
3	16530	31.32	8.04	39.36	54.00	-14.64	Average	Horizontal
4	16530	44.66	8.04	52.70	74.00	-21.30	Peak	Horizontal
5	11020	38.44	2.35	40.79	54.00	-13.21	Average	Vertical
6	11020	53.23	2.35	55.58	74.00	-18.42	Peak	Vertical
7	16530	31.32	8.04	39.36	54.00	-14.64	Average	Vertical
8	16530	44.10	8.04	52.14	74.00	-21.86	Peak	Vertical
TX1TX2_5G_AX40_5550 MHz 11100 MHz 16650 MHz								
1	11100	35.91	2.30	38.21	54.00	-15.79	Average	Horizontal
2	11100	48.76	2.30	51.06	74.00	-22.94	Peak	Horizontal
3	16650	30.76	8.20	38.96	54.00	-15.04	Average	Horizontal
4	16650	42.61	8.20	50.81	74.00	-23.19	Peak	Horizontal
5	11100	37.26	2.30	39.56	54.00	-14.44	Average	Vertical
6	11100	50.98	2.30	53.28	74.00	-20.72	Peak	Vertical

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7	16650	30.97	8.20	39.17	54.00	-14.83	Average	Vertical
8	16650	42.99	8.20	51.19	74.00	-22.81	Peak	Vertical
TX1TX2_5G_AX40_5670 MHz 11340 MHz 17010 MHz								
1	11180	36.00	2.25	38.25	54.00	-15.75	Average	Horizontal
2	11340	47.18	2.16	49.34	74.00	-24.66	Peak	Horizontal
3	16770	30.82	8.35	39.17	54.00	-14.83	Average	Horizontal
4	17010	44.04	8.67	52.71	74.00	-21.29	Peak	Horizontal
5	11340	36.52	2.16	38.68	54.00	-15.32	Average	Vertical
6	11340	49.50	2.16	51.66	74.00	-22.34	Peak	Vertical
7	17010	31.05	8.67	39.72	54.00	-14.28	Average	Vertical
8	17010	43.83	8.67	52.50	74.00	-21.50	Peak	Vertical
TX1TX2_5G_AX40_5710 MHz 11420 MHz 17130 MHz								
1	11420	32.95	2.10	35.05	54.00	-18.95	Average	Horizontal
2	11420	47.29	2.10	49.39	74.00	-24.61	Peak	Horizontal
3	17130	31.26	8.84	40.10	54.00	-13.90	Average	Horizontal
4	17130	43.44	8.84	52.28	74.00	-21.72	Peak	Horizontal
5	11420	33.91	2.10	36.01	54.00	-17.99	Average	Vertical
6	11420	47.63	2.10	49.73	74.00	-24.27	Peak	Vertical
7	17130	31.33	8.84	40.17	54.00	-13.83	Average	Vertical
8	17130	44.34	8.84	53.18	74.00	-20.82	Peak	Vertical
TX1TX2_5G_AX40_5755 MHz 11510 MHz 17265 MHz								
1	11510	34.29	2.05	36.34	54.00	-17.66	Average	Horizontal
2	11510	47.23	2.05	49.28	74.00	-24.72	Peak	Horizontal
3	17265	30.78	9.03	39.81	54.00	-14.19	Average	Horizontal
4	17265	43.96	9.03	52.99	74.00	-21.01	Peak	Horizontal
5	11510	35.09	2.05	37.14	54.00	-16.86	Average	Vertical
6	11510	47.65	2.05	49.70	74.00	-24.30	Peak	Vertical
7	17265	31.11	9.03	40.14	54.00	-13.86	Average	Vertical
8	17265	43.93	9.03	52.96	74.00	-21.04	Peak	Vertical
TX1TX2_5G_AX40_5795 MHz 11590 MHz 17385 MHz								
1	11590	33.62	2.07	35.69	54.00	-18.31	Average	Horizontal
2	11590	46.18	2.07	48.25	74.00	-25.75	Peak	Horizontal
3	17385	30.62	9.21	39.83	54.00	-14.17	Average	Horizontal
4	17385	43.55	9.21	52.76	74.00	-21.24	Peak	Horizontal
5	11590	34.77	2.07	36.84	54.00	-17.16	Average	Vertical
6	11590	48.48	2.07	50.55	74.00	-23.45	Peak	Vertical
7	17385	30.71	9.21	39.92	54.00	-14.08	Average	Vertical
8	17385	43.29	9.21	52.50	74.00	-21.50	Peak	Vertical
TX1TX2_5G_AX80_5210 MHz 10420 MHz 15630 MHz								
1	10420	42.62	3.39	46.01	54.00	-7.99	Average	Horizontal
2	10420	59.40	3.39	62.79	74.00	-11.21	Peak	Horizontal
3	15630	31.72	7.48	39.20	54.00	-14.80	Average	Horizontal
4	15630	44.60	7.48	52.08	74.00	-21.92	Peak	Horizontal
5	10420	36.67	3.39	40.06	54.00	-13.94	Average	Vertical
6	10420	52.69	3.39	56.08	74.00	-17.92	Peak	Vertical
7	15630	31.83	7.48	39.31	54.00	-14.69	Average	Vertical
8	15630	43.29	7.48	50.77	74.00	-23.23	Peak	Vertical
TX1TX2_5G_AX80_5290 MHz 10580 MHz 15870 MHz								
1	10580	38.43	3.23	41.66	54.00	-12.34	Average	Horizontal
2	10580	52.32	3.23	55.55	74.00	-18.45	Peak	Horizontal
3	15870	30.90	7.27	38.17	54.00	-15.83	Average	Horizontal
4	15870	43.31	7.27	50.58	74.00	-23.42	Peak	Horizontal
5	10580	44.90	3.23	48.13	54.00	-5.87	Average	Vertical
6	10580	54.92	3.23	58.15	74.00	-15.85	Peak	Vertical
7	15870	30.98	7.27	38.25	54.00	-15.75	Average	Vertical
8	15870	42.23	7.27	49.50	74.00	-24.50	Peak	Vertical
TX1TX2_5G_AX80_5530 MHz 11060 MHz 16590 MHz								

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1	11060	37.28	2.32	39.60	54.00	-14.40	Average	Horizontal
2	11060	50.69	2.32	53.01	74.00	-20.99	Peak	Horizontal
3	16590	29.98	8.11	38.09	54.00	-15.91	Average	Horizontal
4	16590	42.32	8.11	50.43	74.00	-23.57	Peak	Horizontal
5	11220	34.14	2.22	36.36	54.00	-17.64	Average	Vertical
6	11220	49.53	2.22	51.75	74.00	-22.25	Peak	Vertical
7	16830	31.66	8.43	40.09	54.00	-13.91	Average	Vertical
8	16830	45.54	8.43	53.97	74.00	-20.03	Peak	Vertical
TX1TX2_5G_AX80_5610 MHz 11220 MHz 16830 MHz								
1	11220	33.15	2.22	35.37	54.00	-18.63	Average	Horizontal
2	11220	47.74	2.22	49.96	74.00	-24.04	Peak	Horizontal
3	16830	31.03	8.43	39.46	54.00	-14.54	Average	Horizontal
4	16830	45.12	8.43	53.55	74.00	-20.45	Peak	Horizontal
5	11220	34.30	2.22	36.52	54.00	-17.48	Average	Vertical
6	11220	48.66	2.22	50.88	74.00	-23.12	Peak	Vertical
7	16830	31.03	8.43	39.46	54.00	-14.54	Average	Vertical
8	16830	43.17	8.43	51.60	74.00	-22.40	Peak	Vertical
TX1TX2_5G_AX80_5690 MHz 11380 MHz 17070 MHz								
1	11380	34.08	2.13	36.21	54.00	-17.79	Average	Horizontal
2	11380	47.09	2.13	49.22	74.00	-24.78	Peak	Horizontal
3	17070	31.31	8.75	40.06	54.00	-13.94	Average	Horizontal
4	17070	44.52	8.75	53.27	74.00	-20.73	Peak	Horizontal
5	11380	35.79	2.13	37.92	54.00	-16.08	Average	Vertical
6	11380	50.87	2.13	53.00	74.00	-21.00	Peak	Vertical
7	17070	33.46	8.75	42.21	54.00	-11.79	Average	Vertical
8	17070	46.82	8.75	55.57	74.00	-18.43	Peak	Vertical
TX1TX2_5G_AX80_5775 MHz 11550 MHz 17325 MHz								
1	11550	33.74	2.06	35.80	54.00	-18.20	Average	Horizontal
2	11550	48.51	2.06	50.57	74.00	-23.43	Peak	Horizontal
3	17325	30.74	9.12	39.86	54.00	-14.14	Average	Horizontal
4	17325	43.12	9.12	52.24	74.00	-21.76	Peak	Horizontal
5	11550	35.13	2.06	37.19	54.00	-16.81	Average	Vertical
6	11550	49.84	2.06	51.90	74.00	-22.10	Peak	Vertical
7	17325	31.42	9.12	40.54	54.00	-13.46	Average	Vertical
8	17325	43.73	9.12	52.85	74.00	-21.15	Peak	Vertical

Remark:

1. Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain, the value was added to Original Receiver Reading by the software automatically.
2. Result = Reading + Correct Factor.
3. Margin = Limit - Result
4. For Radiated Emission 18GHz to 40GHz, there was not any unwanted emission detected.
5. Radiated emissions outside the restricted bands comply with the -27dBm limit

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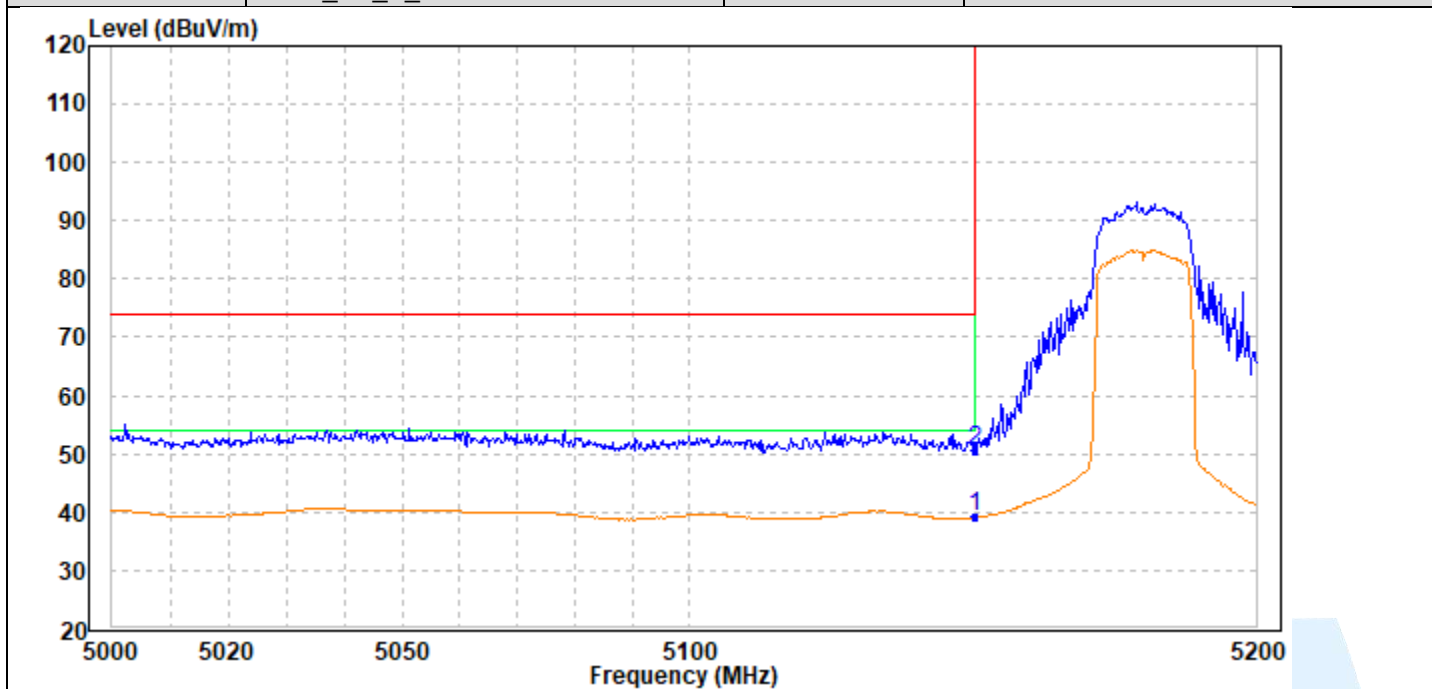
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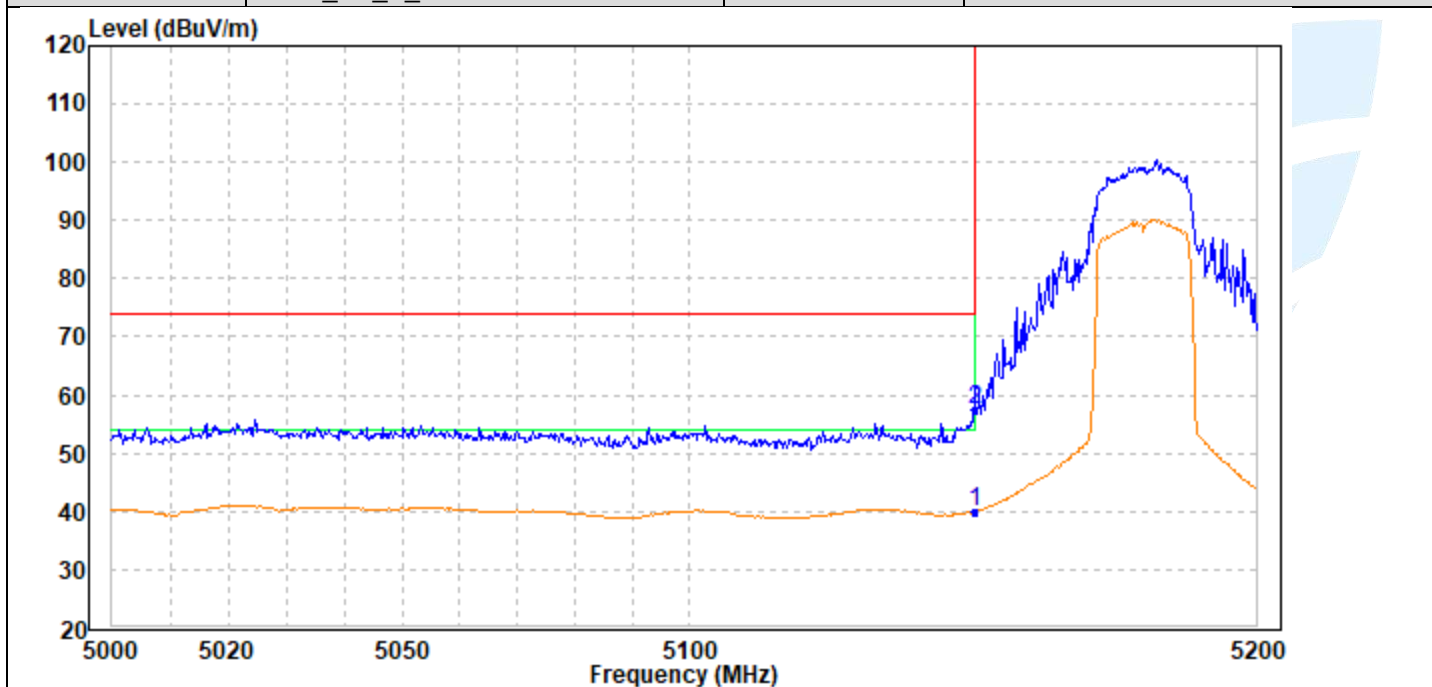
Band Edge Measurements (Radiated)

Test Channel:	TX1_5G_A_5180	Ant Polar:	Horizontal
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Frequency (MHz)	Peak level (dBuV/m)	Peak Limit (dBuV/m)	AV level (dBuV/m)	AV Limit (dBuV/m)	Conclusion
5150.000	50.59	74.00	39.09	54.00	PASS

Test Channel:	TX1_5G_A_5180	Ant Polar:	Vertical
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Frequency (MHz)	Peak level (dBuV/m)	Peak Limit (dBuV/m)	AV level (dBuV/m)	AV Limit (dBuV/m)	Conclusion
5150.000	57.55	74.00	40.02	54.00	PASS

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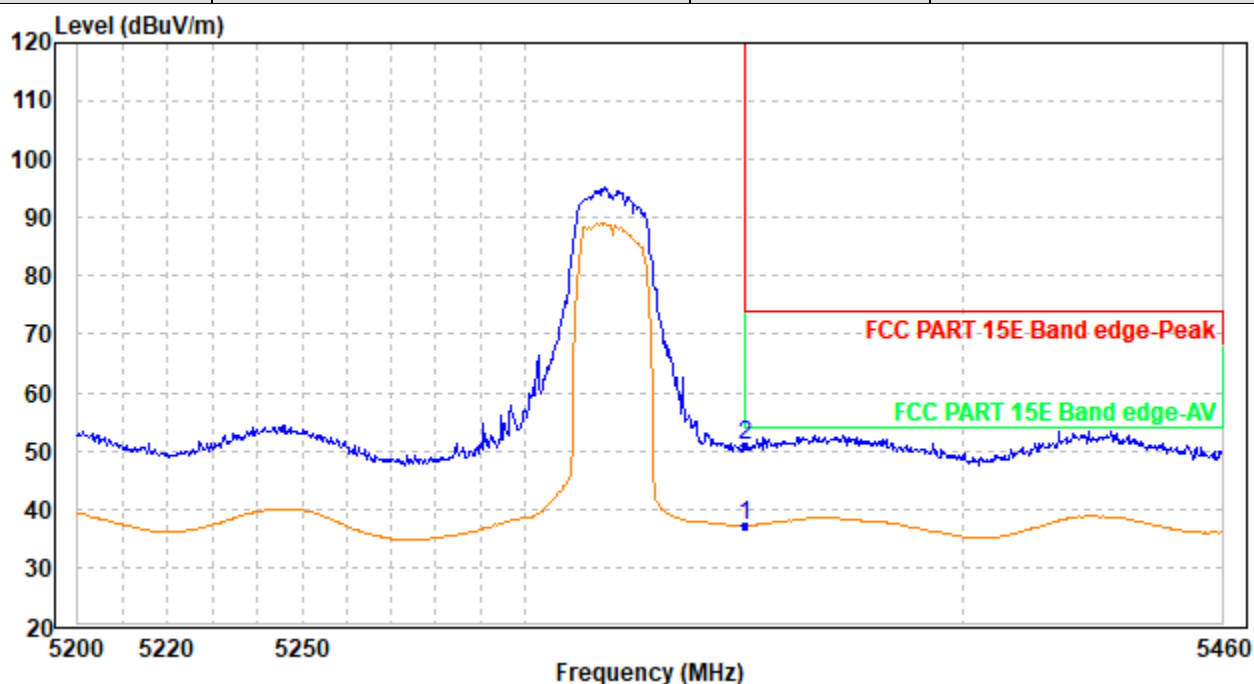
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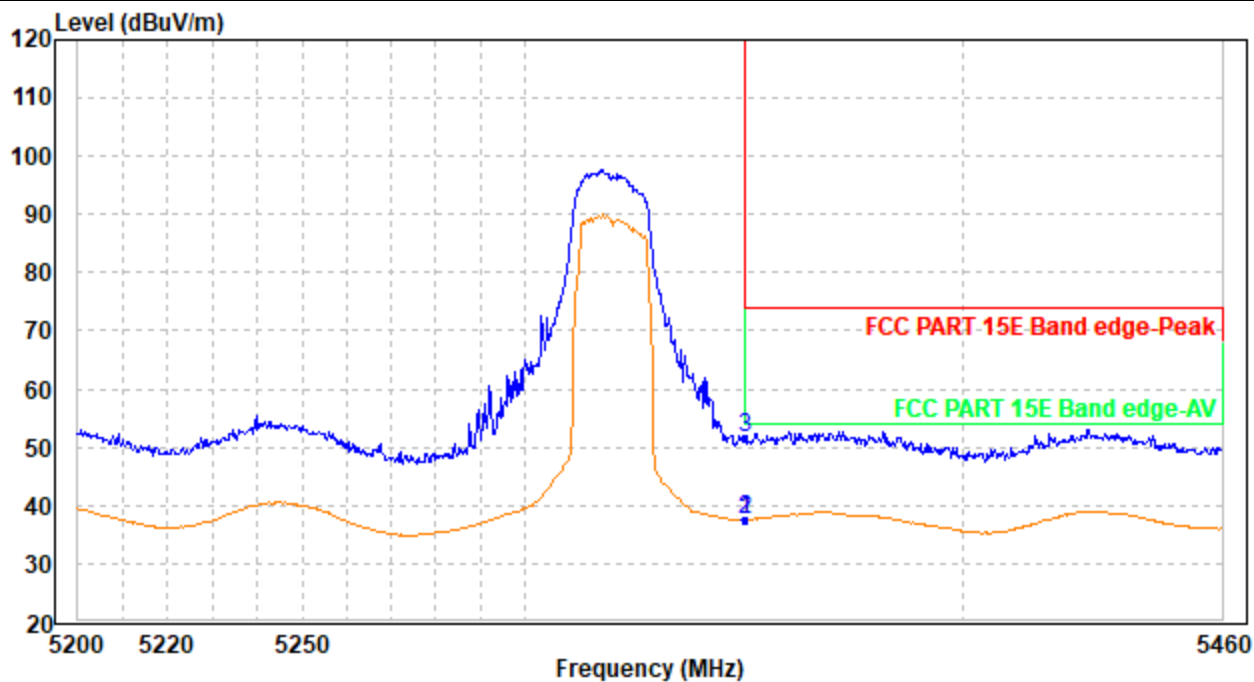
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Test Channel:	TX1_5G_A_5320	Ant Polar:	Horizontal
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Frequency (MHz)	Peak level (dBuV/m)	Peak Limit (dBuV/m)	AV level (dBuV/m)	AV Limit (dBuV/m)	Conclusion
5350.000	50.91	74.00	37.18	54.00	PASS

Test Channel:	TX1_5G_A_5320	Ant Polar:	Vertical
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Frequency (MHz)	Peak level (dBuV/m)	Peak Limit (dBuV/m)	AV level (dBuV/m)	AV Limit (dBuV/m)	Conclusion
5350.000	51.53	74.00	37.56	54.00	PASS

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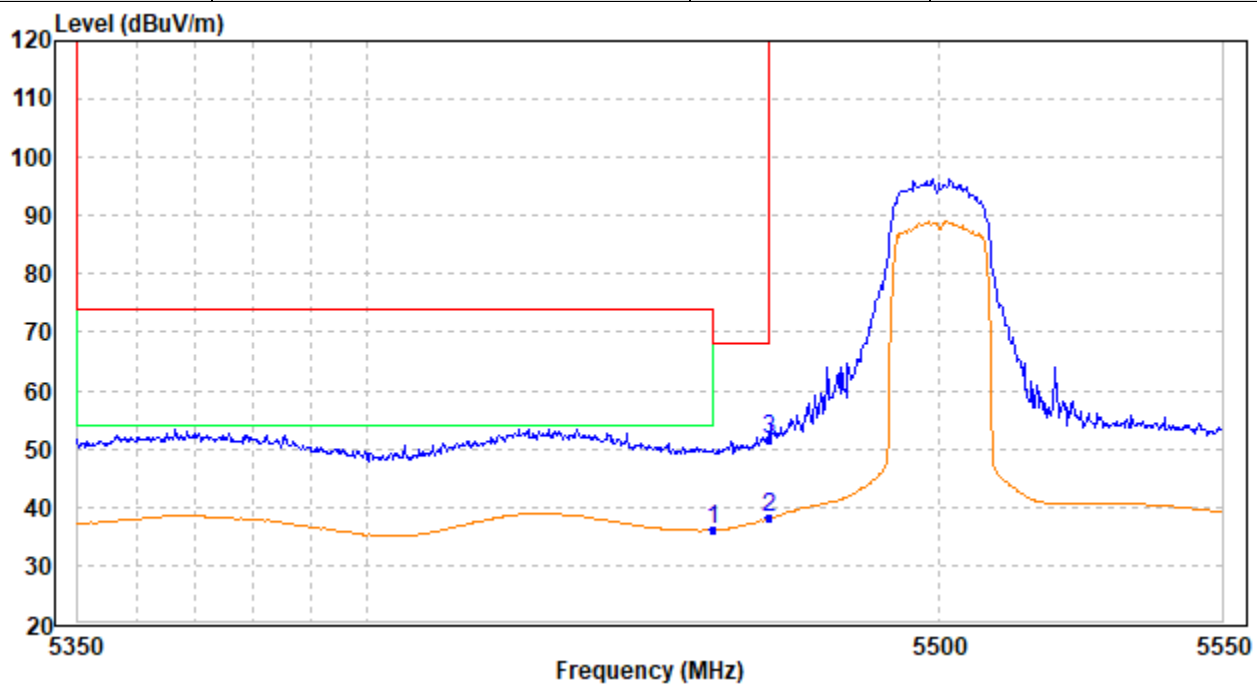
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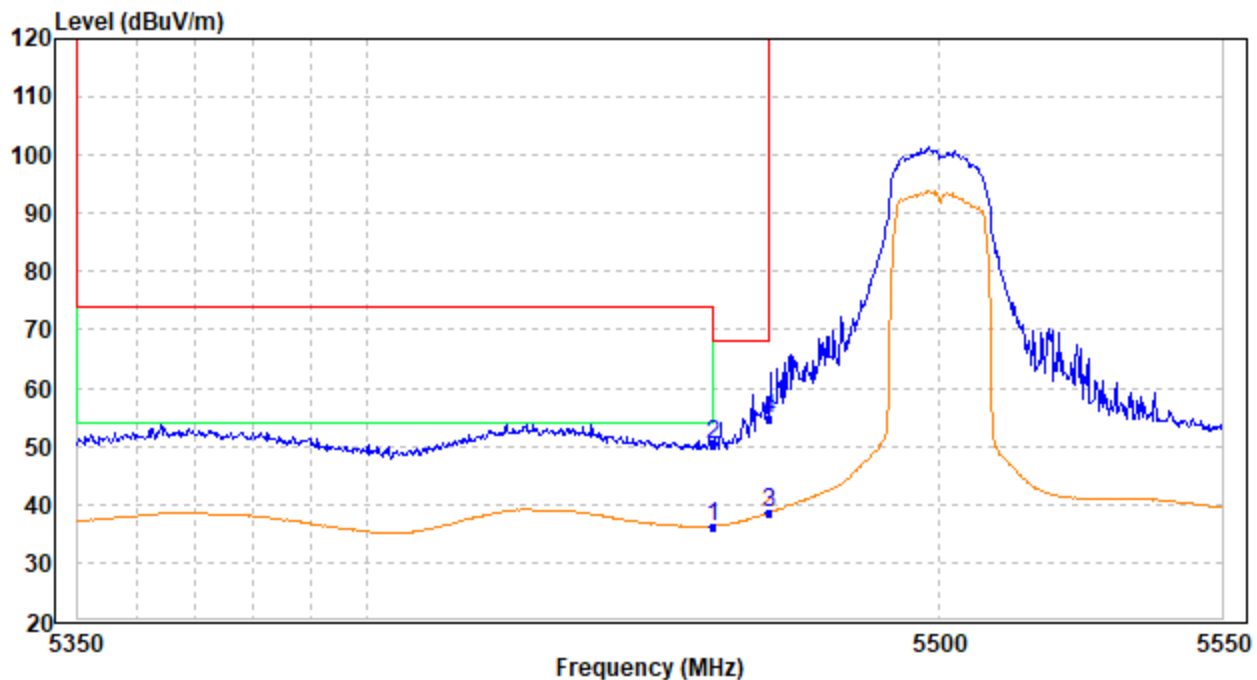
UTTR-RF-FCCPART15.407-V1.3

Test Channel:	TX1_5G_A_5500	Ant Polar:	Horizontal
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Frequency (MHz)	Peak level (dBuV/m)	Peak Limit (dBuV/m)	AV level (dBuV/m)	AV Limit (dBuV/m)	Conclusion
5460.000	--	--	36.01	54.00	PASS
5470.000	51.48	68.20	38.10	68.20	PASS

Test Channel:	TX1_5G_A_5500	Ant Polar:	Vertical
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Frequency (MHz)	Peak level (dBuV/m)	Peak Limit (dBuV/m)	AV level (dBuV/m)	AV Limit (dBuV/m)	Conclusion
5460.000	50.13	68.20	36.28	54.00	PASS
5470.000	54.83	68.20	38.61	68.20	PASS

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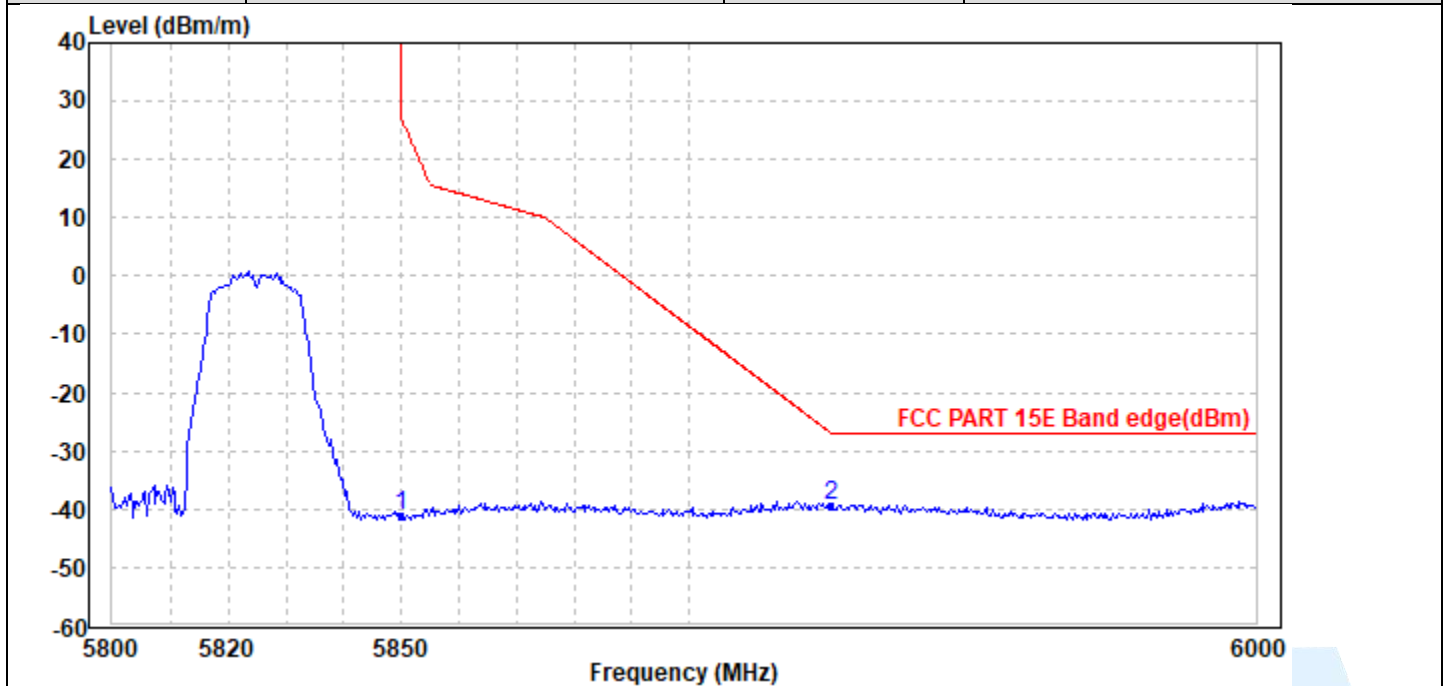
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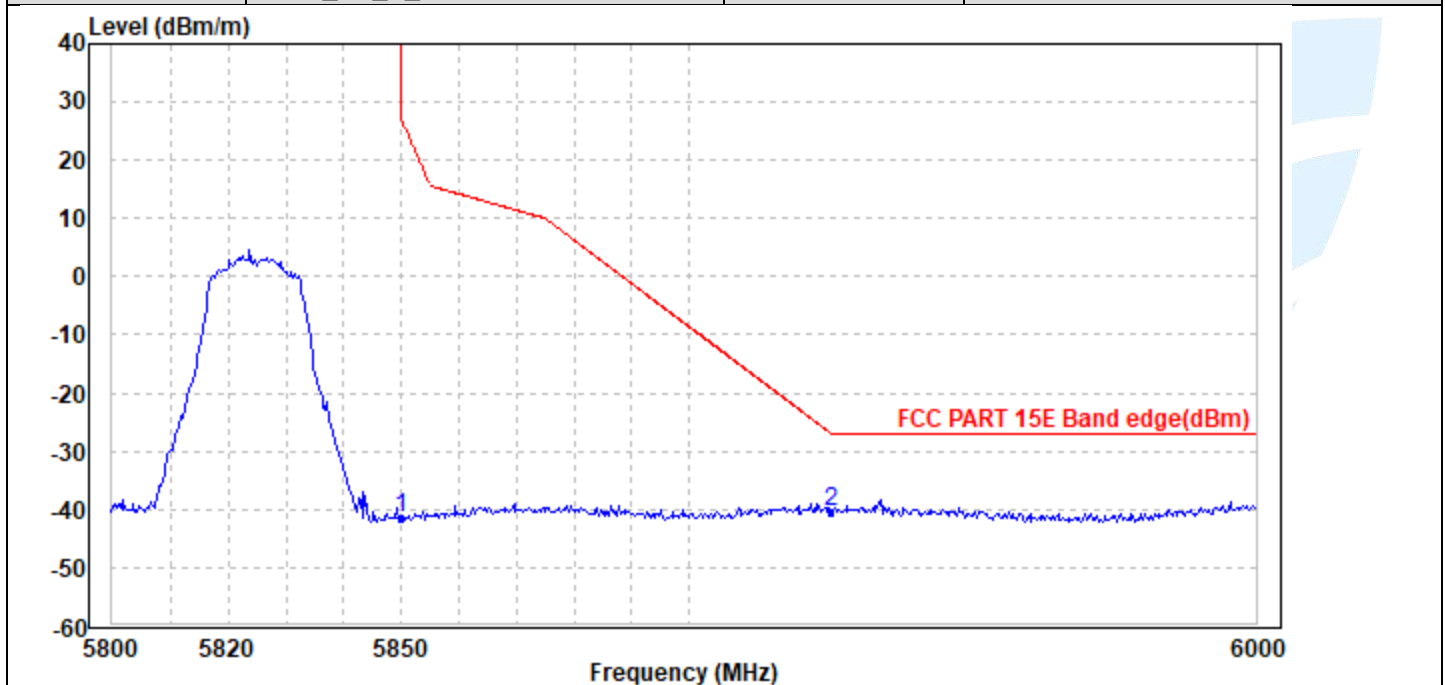
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Test Channel:	TX1_5G_A_5825	Ant Polar:	Horizontal
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Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	AV level (dBμV/m)	AV Limit (dBμV/m)	Conclusion
5850.000	-41.04	27.00	--	--	PASS
5925.000	-39.33	-27.00	--	--	PASS

Test Channel:	TX1_5G_A_5825	Ant Polar:	Vertical
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Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	AV level (dBμV/m)	AV Limit (dBμV/m)	Conclusion
5850.000	-41.35	27.00	--	--	PASS
5925.000	-40.25	-27.00	--	--	PASS

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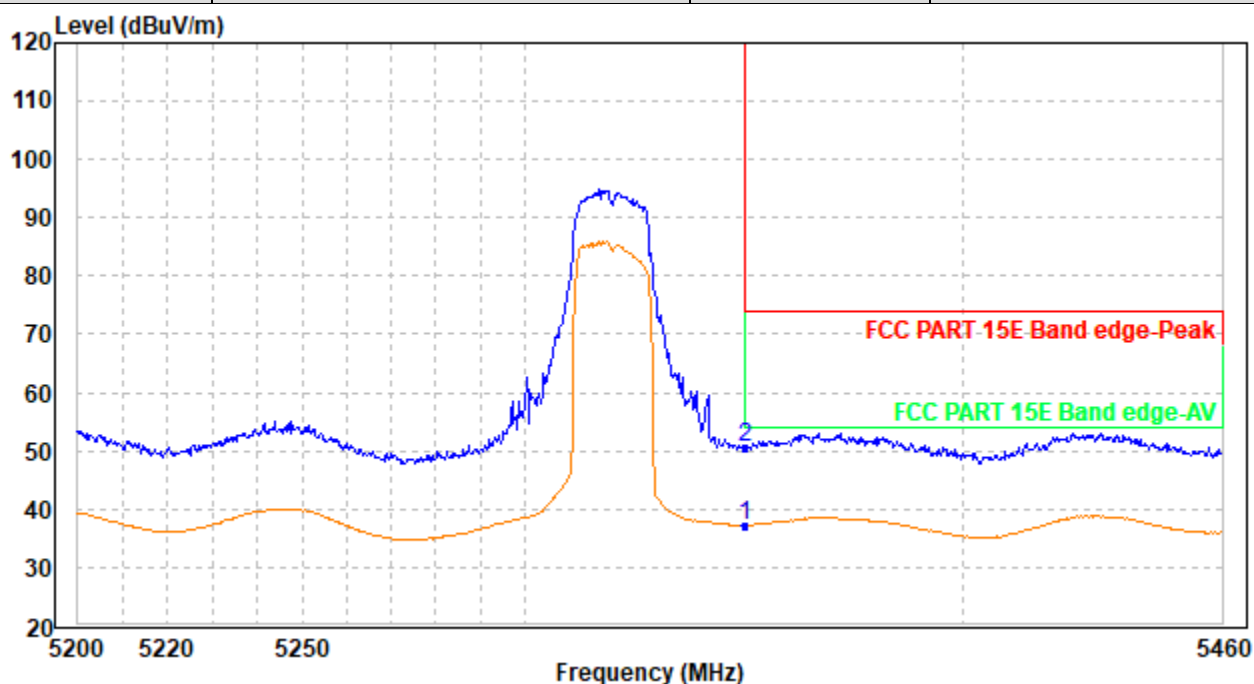
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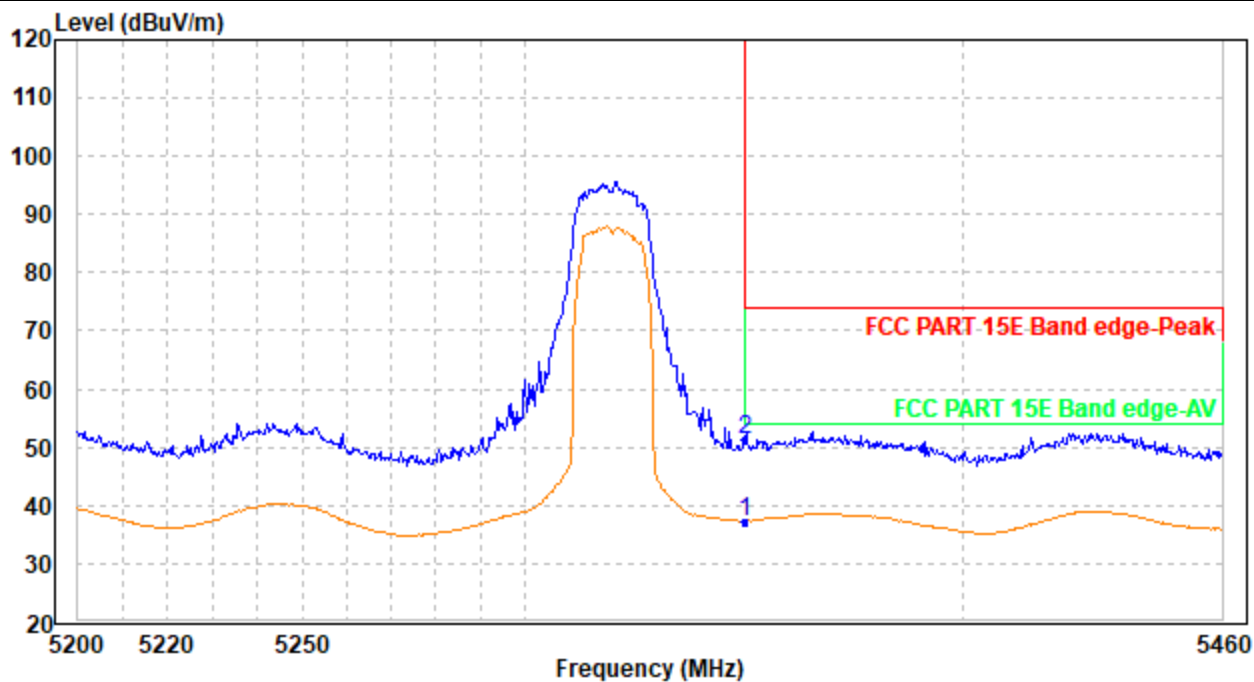
UTTR-RF-FCCPART15.407-V1.3

Test Channel:	TX2_5G_A_5320	Ant Polar:	Horizontal
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Frequency (MHz)	Peak level (dBuV/m)	Peak Limit (dBuV/m)	AV level (dBuV/m)	AV Limit (dBuV/m)	Conclusion
5350.000	50.69	74.00	37.24	54.00	PASS

Test Channel:	TX2_5G_A_5320	Ant Polar:	Vertical
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Frequency (MHz)	Peak level (dBuV/m)	Peak Limit (dBuV/m)	AV level (dBuV/m)	AV Limit (dBuV/m)	Conclusion
5350.000	51.22	74.00	37.33	54.00	PASS

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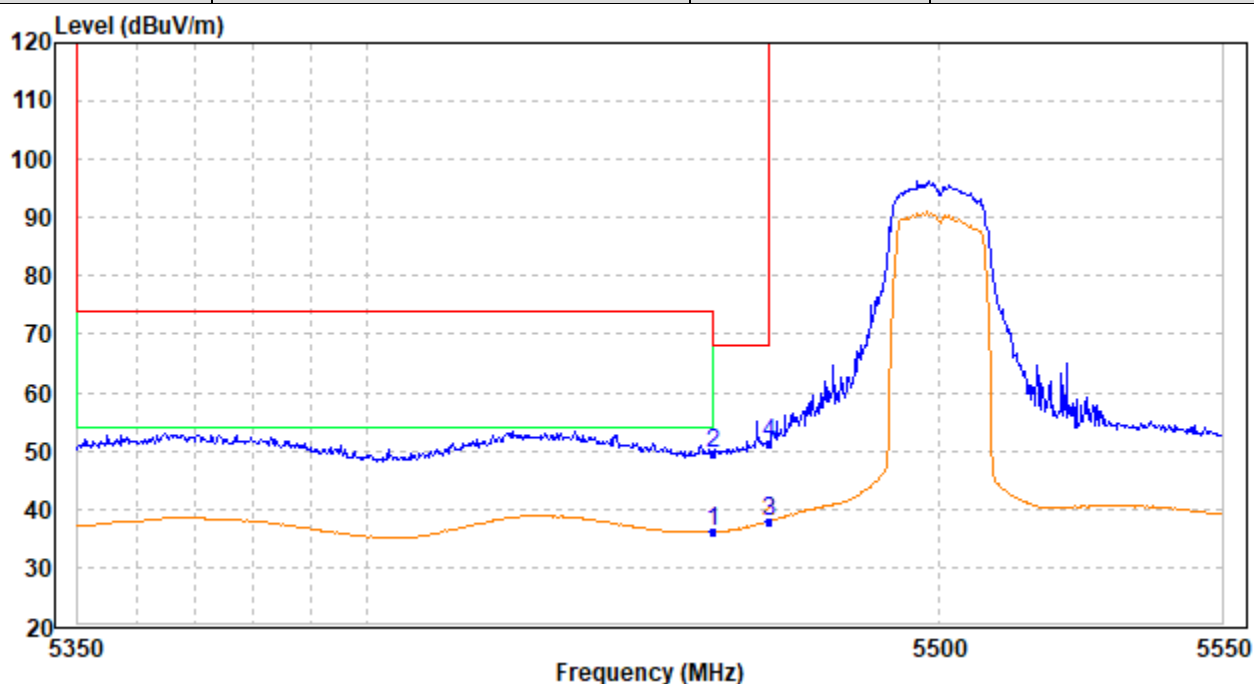
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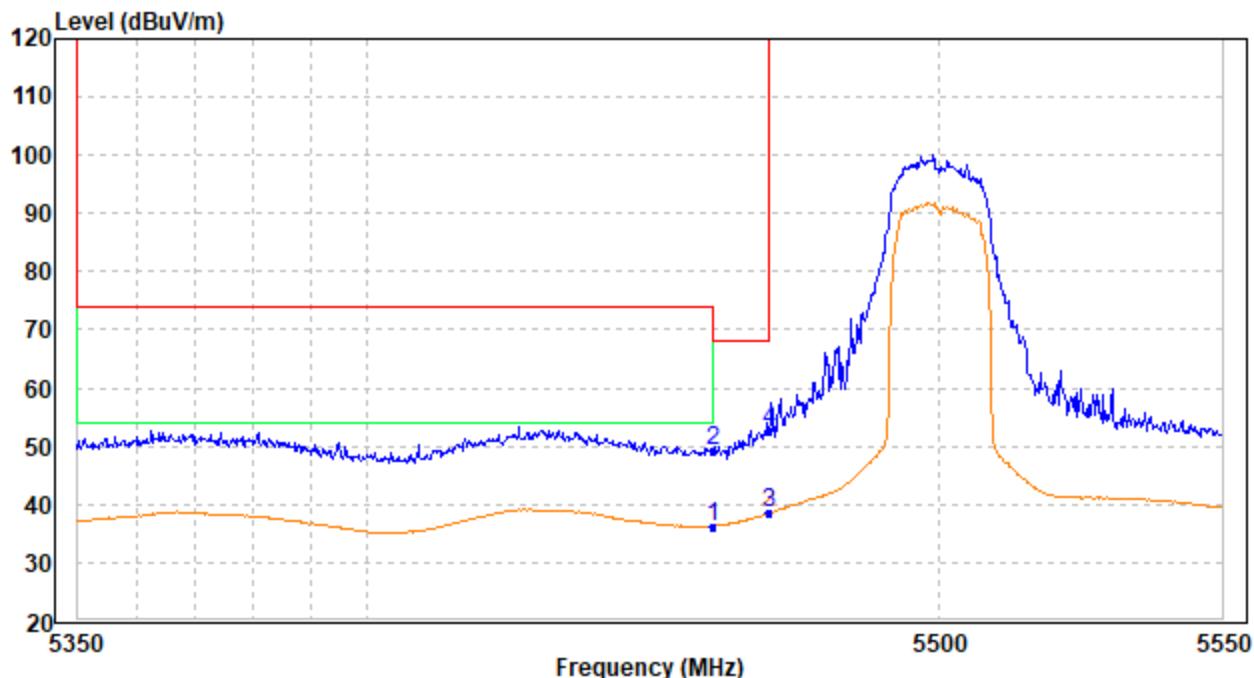
UTTR-RF-FCCPART15.407-V1.3

Test Channel:	TX2_5G_A_5500	Ant Polar:	Horizontal
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Frequency (MHz)	Peak level (dBuV/m)	Peak Limit (dBuV/m)	AV level (dBuV/m)	AV Limit (dBuV/m)	Conclusion
5460.000	49.59	68.20	36.12	54.00	PASS
5470.000	51.12	68.20	37.95	68.20	PASS

Test Channel:	TX2_5G_A_5500	Ant Polar:	Vertical
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Frequency (MHz)	Peak level (dBuV/m)	Peak Limit (dBuV/m)	AV level (dBuV/m)	AV Limit (dBuV/m)	Conclusion
5460.000	49.38	68.20	36.30	54.00	PASS
5470.000	52.56	68.20	38.57	68.20	PASS

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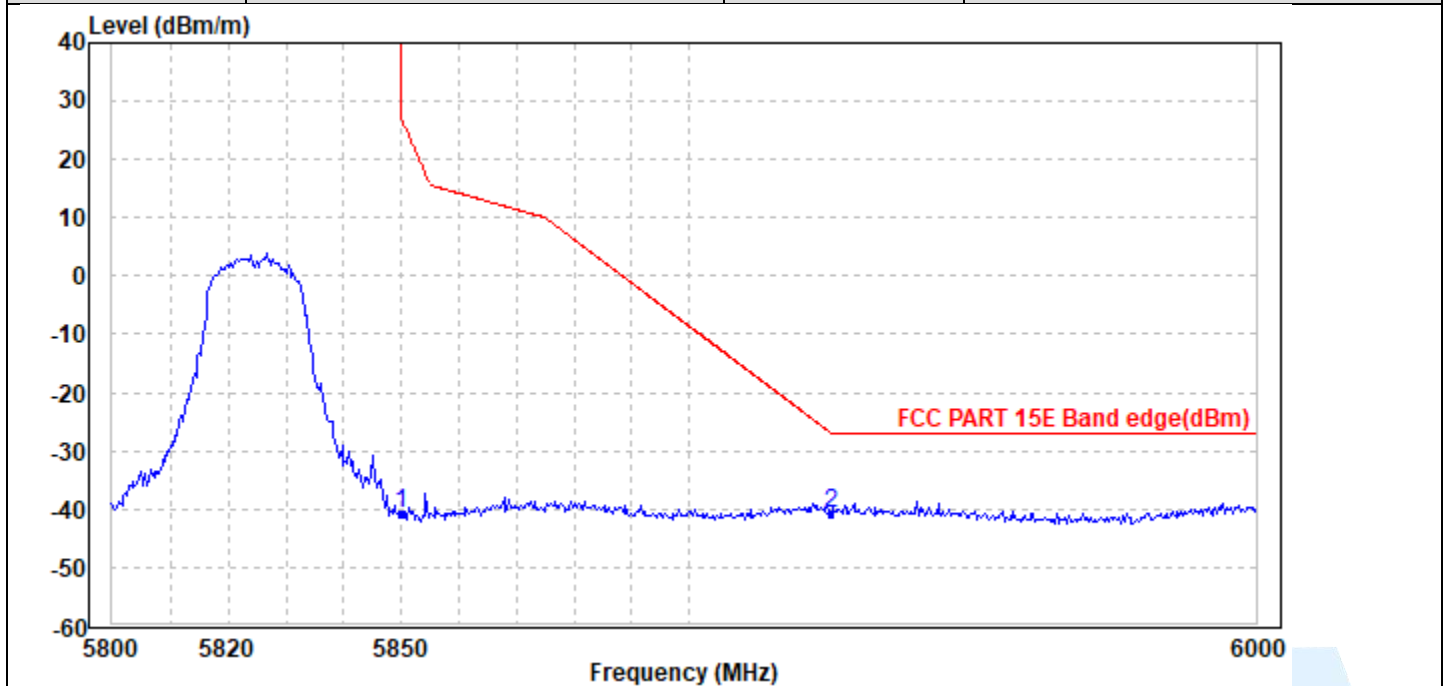
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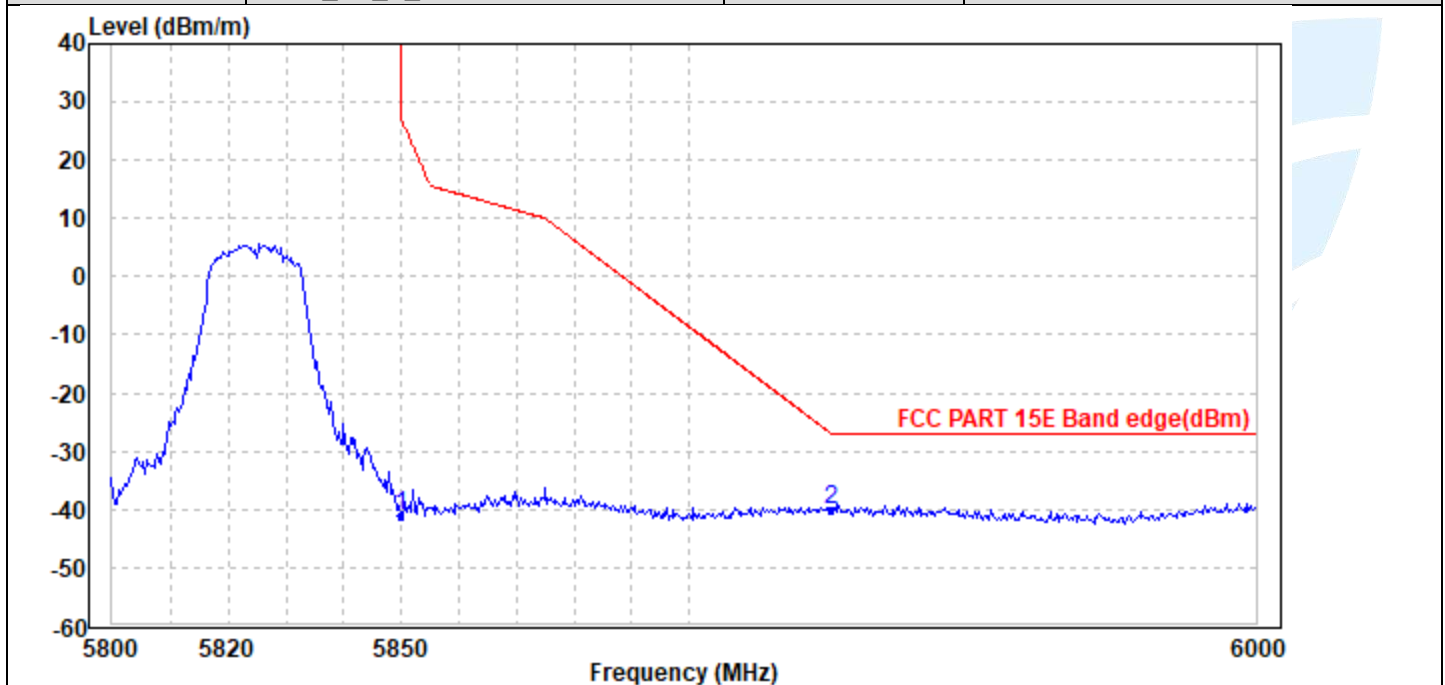
UTTR-RF-FCCPART15.407-V1.3

Test Channel:	TX2_5G_A_5825	Ant Polar:	Horizontal
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Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	AV level (dBμV/m)	AV Limit (dBμV/m)	Conclusion
5850.000	-40.77	27.00	--	--	PASS
5925.000	-40.85	-27.00	--	--	PASS

Test Channel:	TX2_5G_A_5825	Ant Polar:	Vertical
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Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	AV level (dBμV/m)	AV Limit (dBμV/m)	Conclusion
5850.000	-41.09	27.00	--	--	PASS
5925.000	-39.92	-27.00	--	--	PASS

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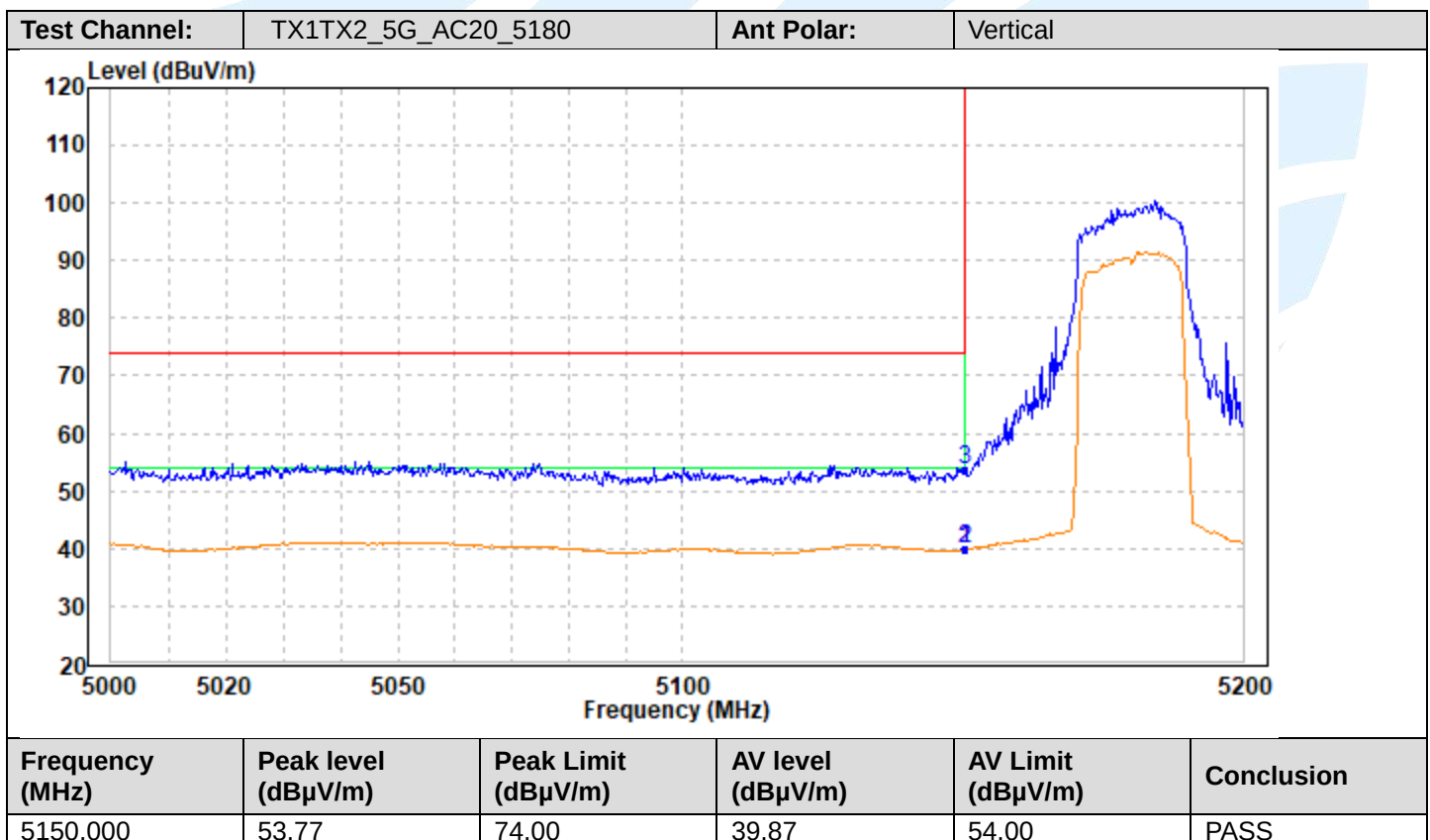
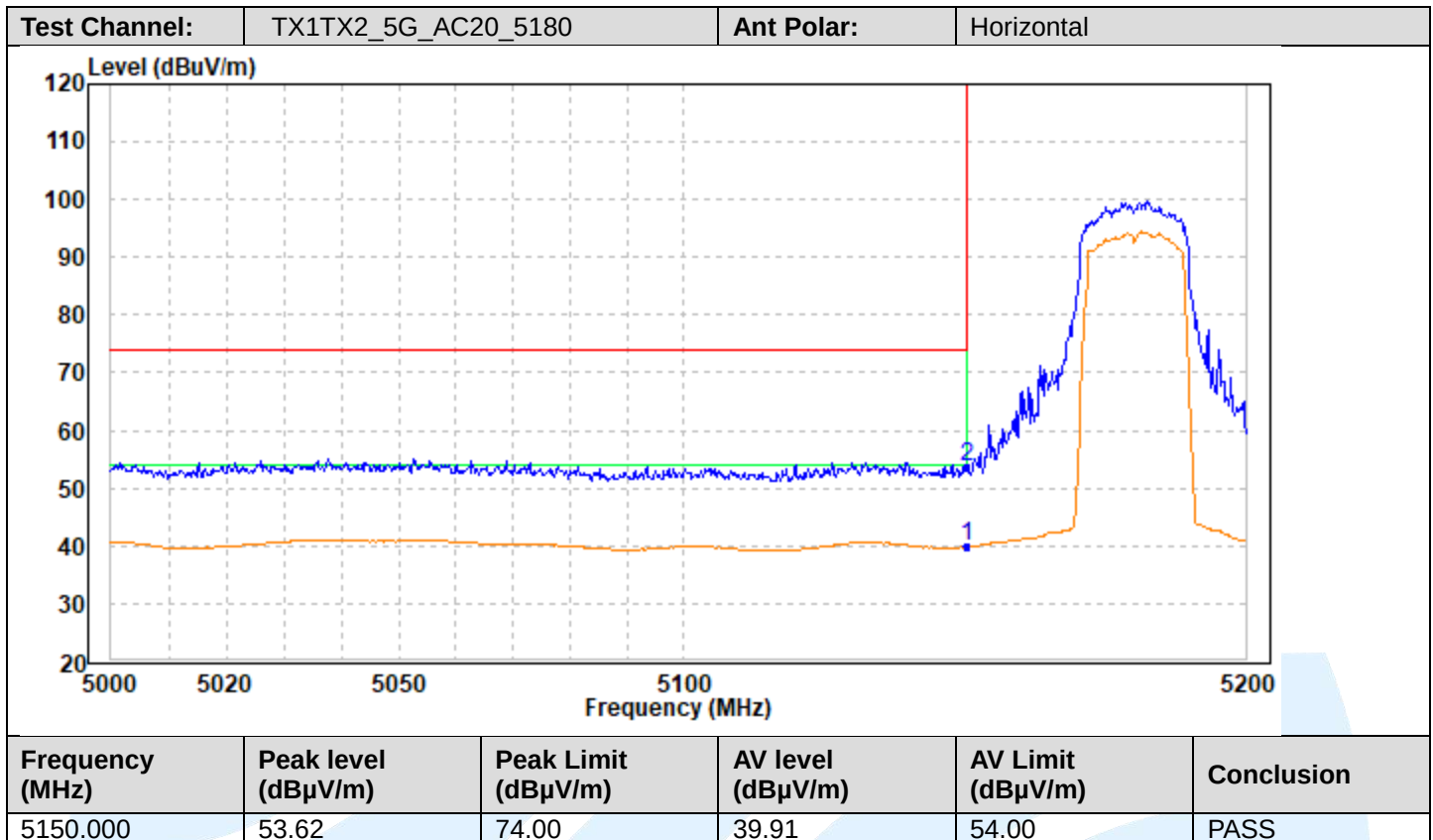
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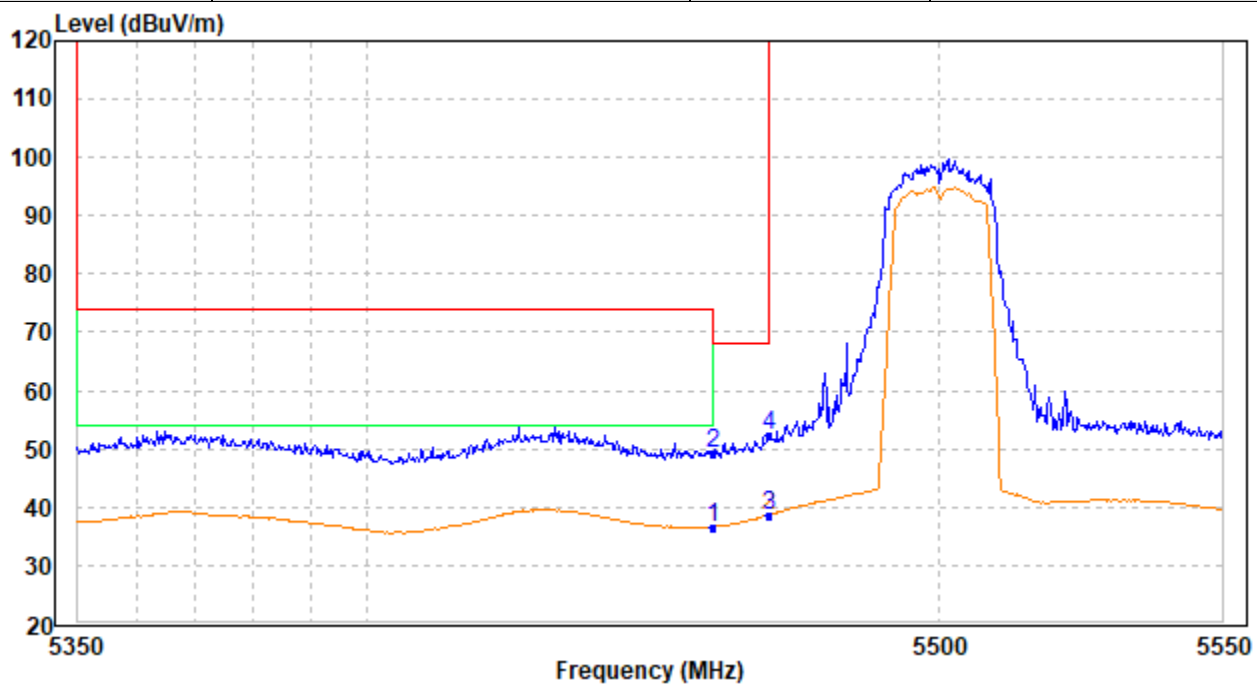
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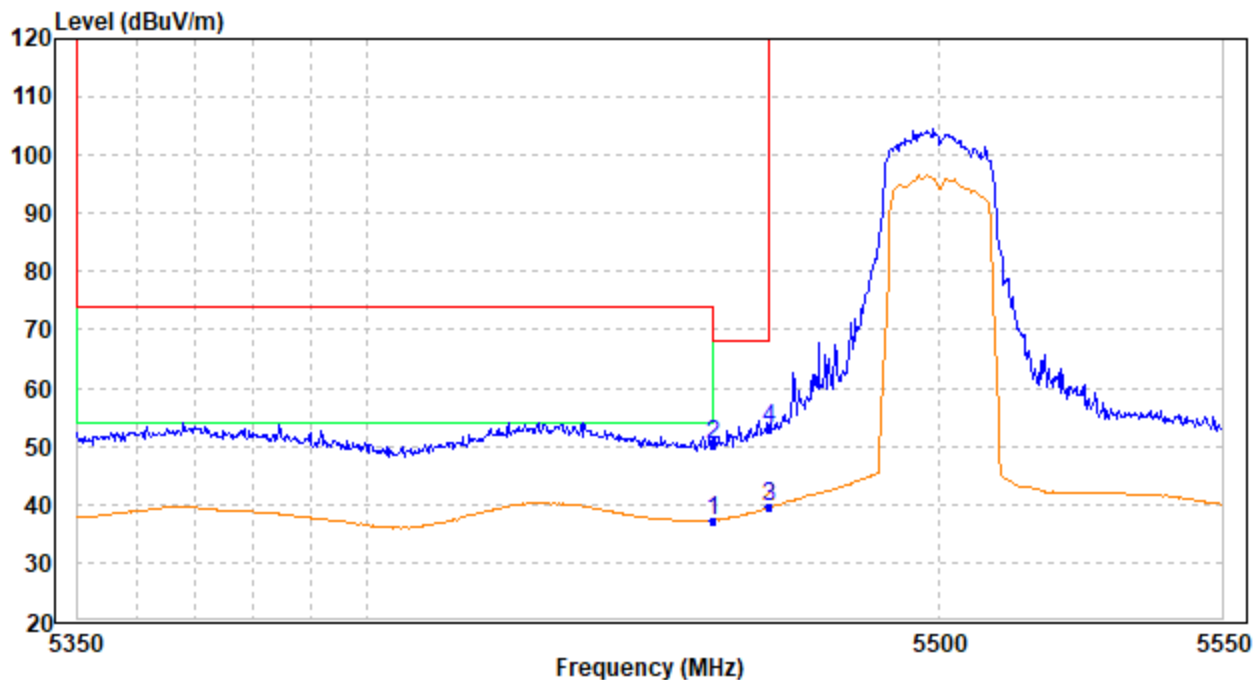
UTTR-RF-FCCPART15.407-V1.3

Test Channel:	TX1TX2_5G_AC20_5500	Ant Polar:	Horizontal
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Frequency (MHz)	Peak level (dBuV/m)	Peak Limit (dBuV/m)	AV level (dBuV/m)	AV Limit (dBuV/m)	Conclusion
5460.000	49.06	68.20	36.61	54.00	PASS
5470.000	52.18	68.20	38.71	68.20	PASS

Test Channel:	TX1TX2_5G_AC20_5500	Ant Polar:	Vertical
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Frequency (MHz)	Peak level (dBuV/m)	Peak Limit (dBuV/m)	AV level (dBuV/m)	AV Limit (dBuV/m)	Conclusion
5460.000	50.08	68.20	37.30	54.00	PASS
5470.000	53.08	68.20	39.56	68.20	PASS

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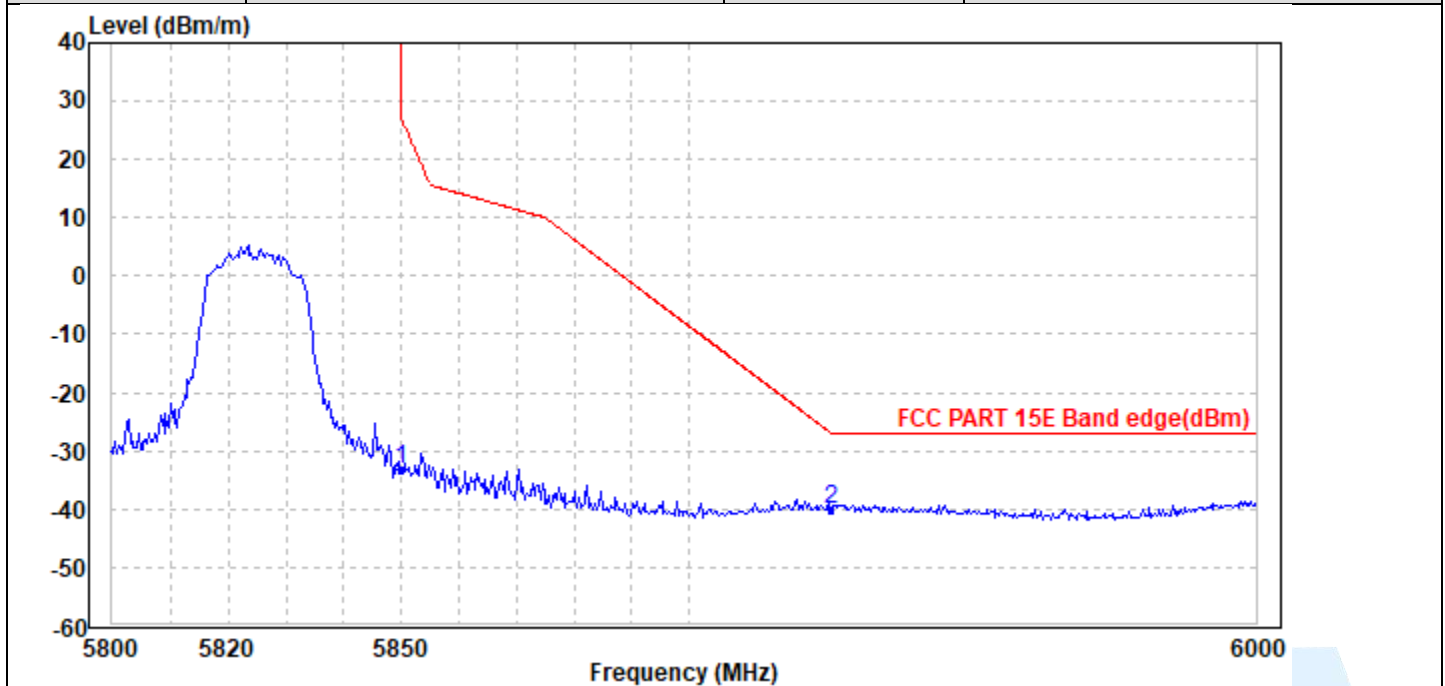
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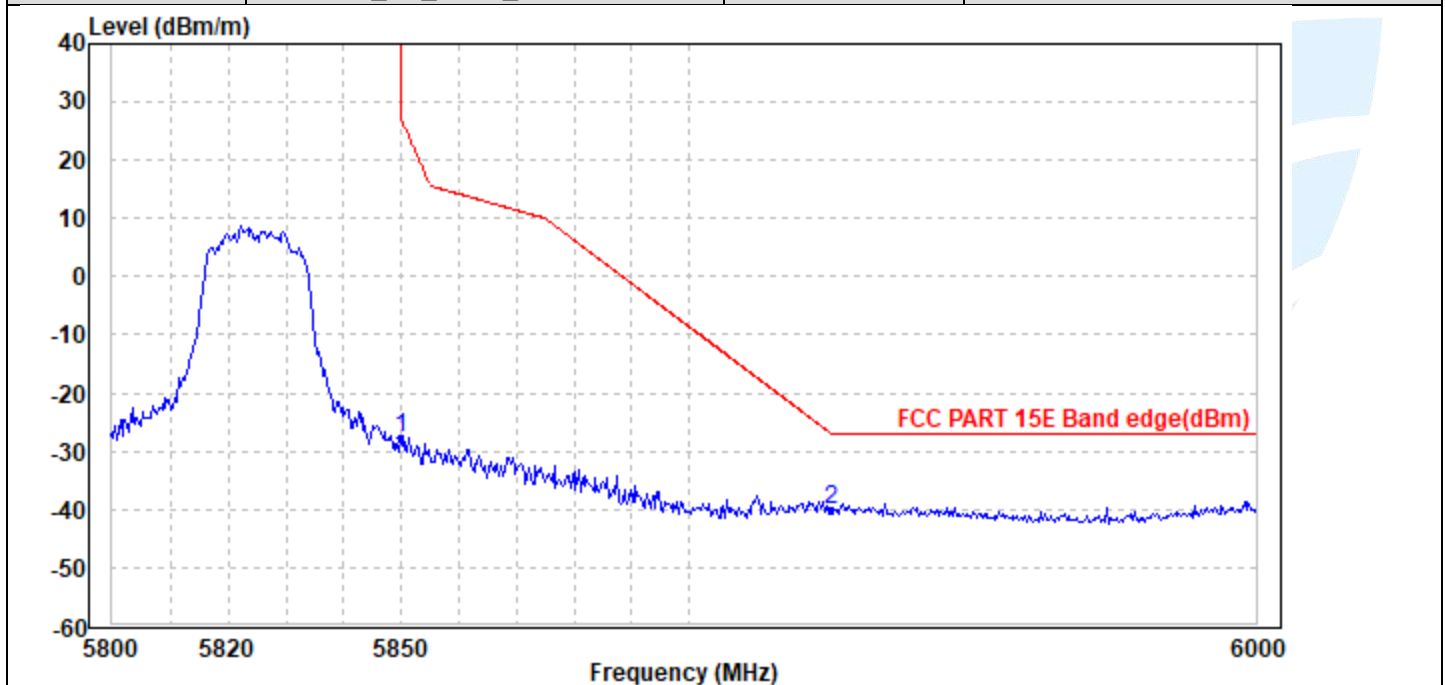
UTTR-RF-FCCPART15.407-V1.3

Test Channel:	TX1TX2_5G_AC20_5825	Ant Polar:	Horizontal
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Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	AV level (dBμV/m)	AV Limit (dBμV/m)	Conclusion
5850.000	-33.23	27.00	--	--	PASS
5925.000	-40.15	-27.00	--	--	PASS

Test Channel:	TX1TX2_5G_AC20_5825	Ant Polar:	Vertical
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Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	AV level (dBμV/m)	AV Limit (dBμV/m)	Conclusion
5850.000	-27.87	27.00	--	--	PASS
5925.000	-39.94	-27.00	--	--	PASS

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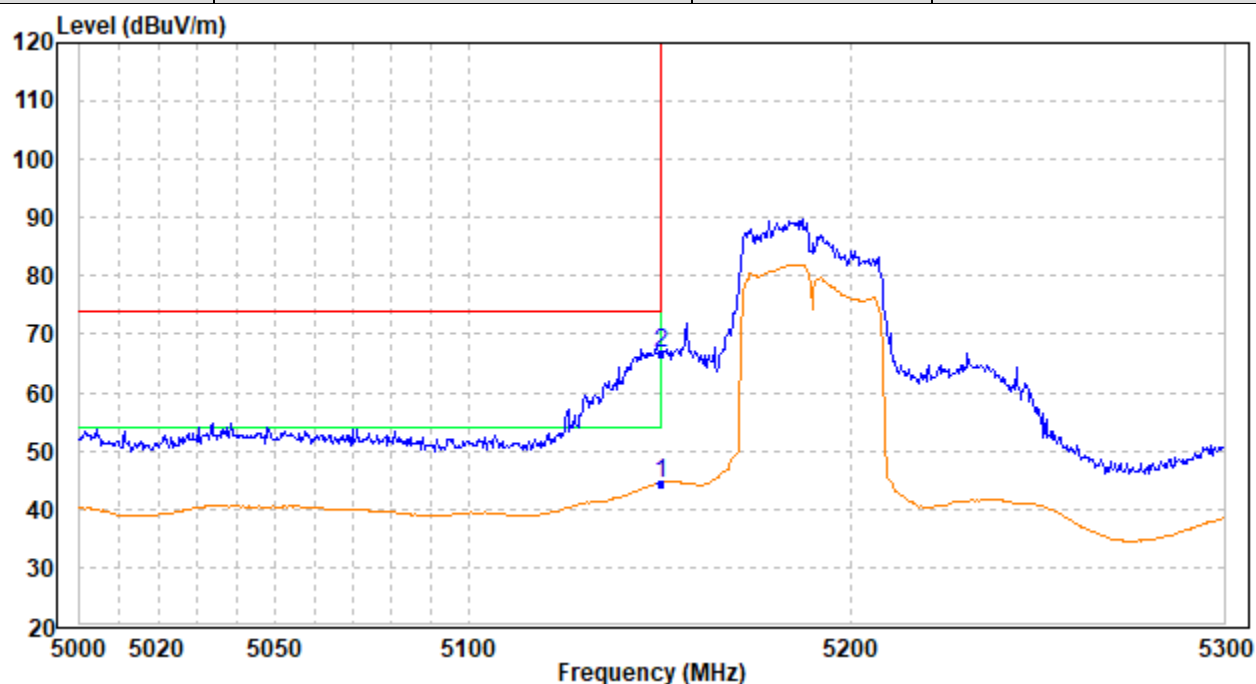
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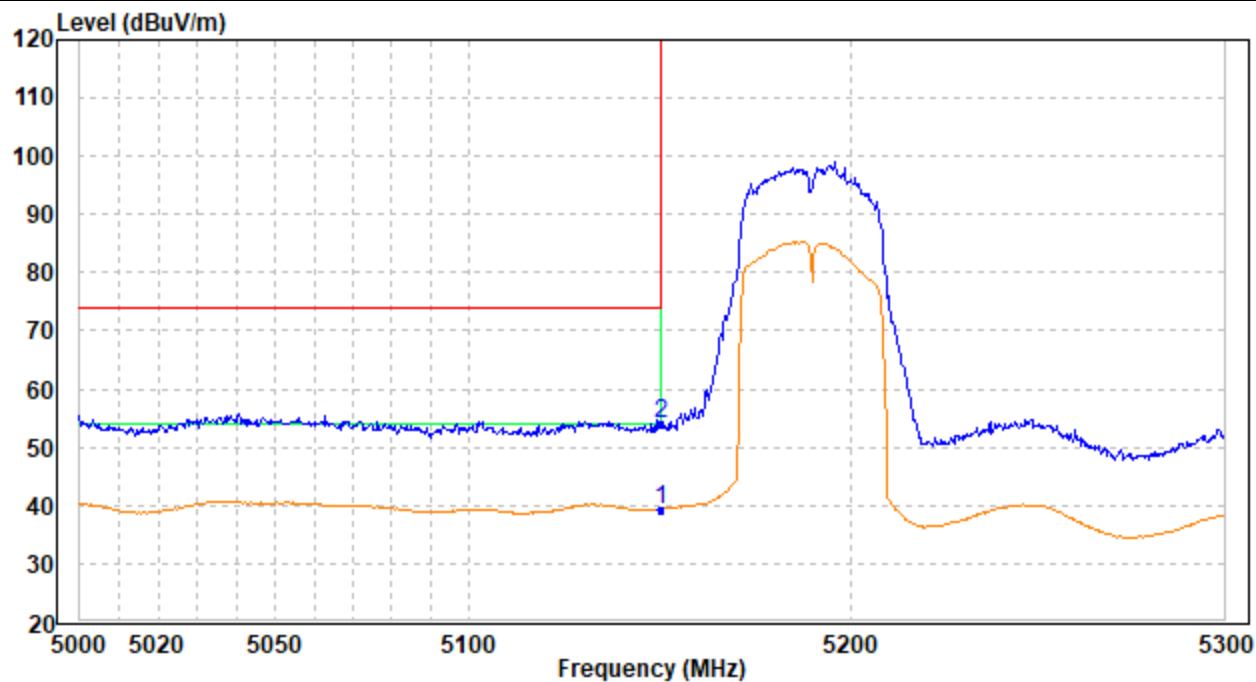
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Test Channel:	TX1TX2_5G_AC40_5190	Ant Polar:	Horizontal
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Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	AV level (dBμV/m)	AV Limit (dBμV/m)	Conclusion
5150.000	66.67	74.00	44.45	54.00	PASS

Test Channel:	TX1TX2_5G_AC40_5190	Ant Polar:	Vertical
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Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	AV level (dBμV/m)	AV Limit (dBμV/m)	Conclusion
5150.000	53.96	74.00	39.35	54.00	PASS

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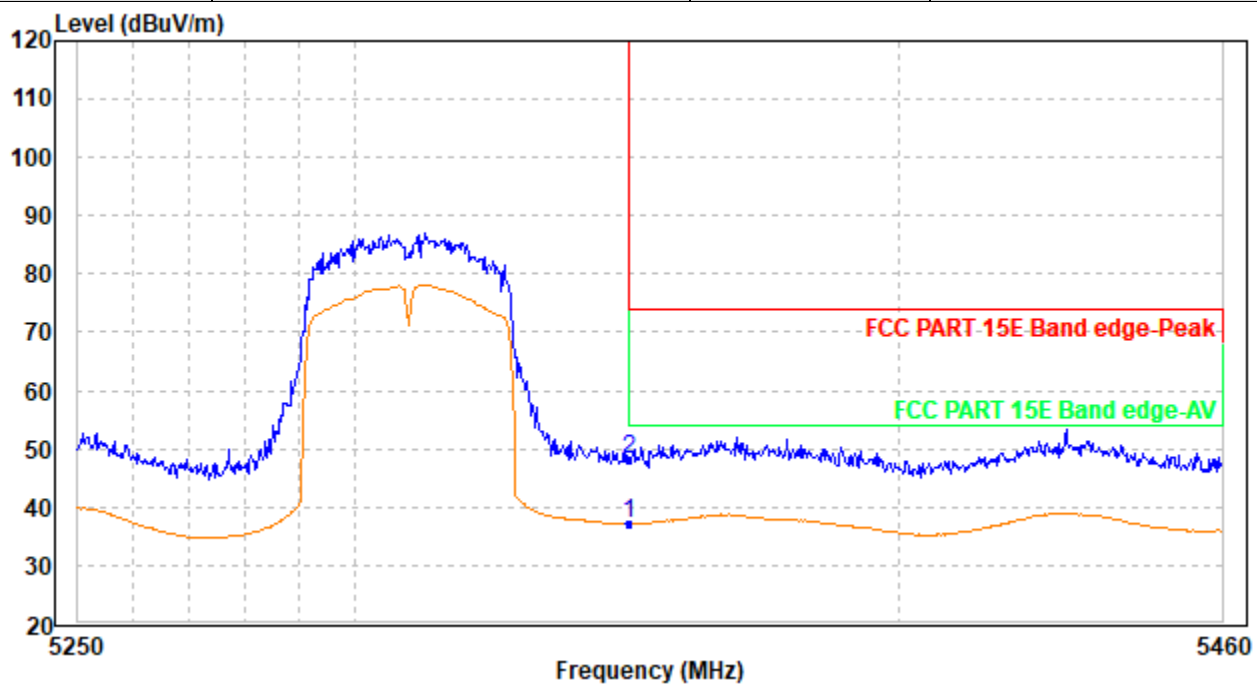
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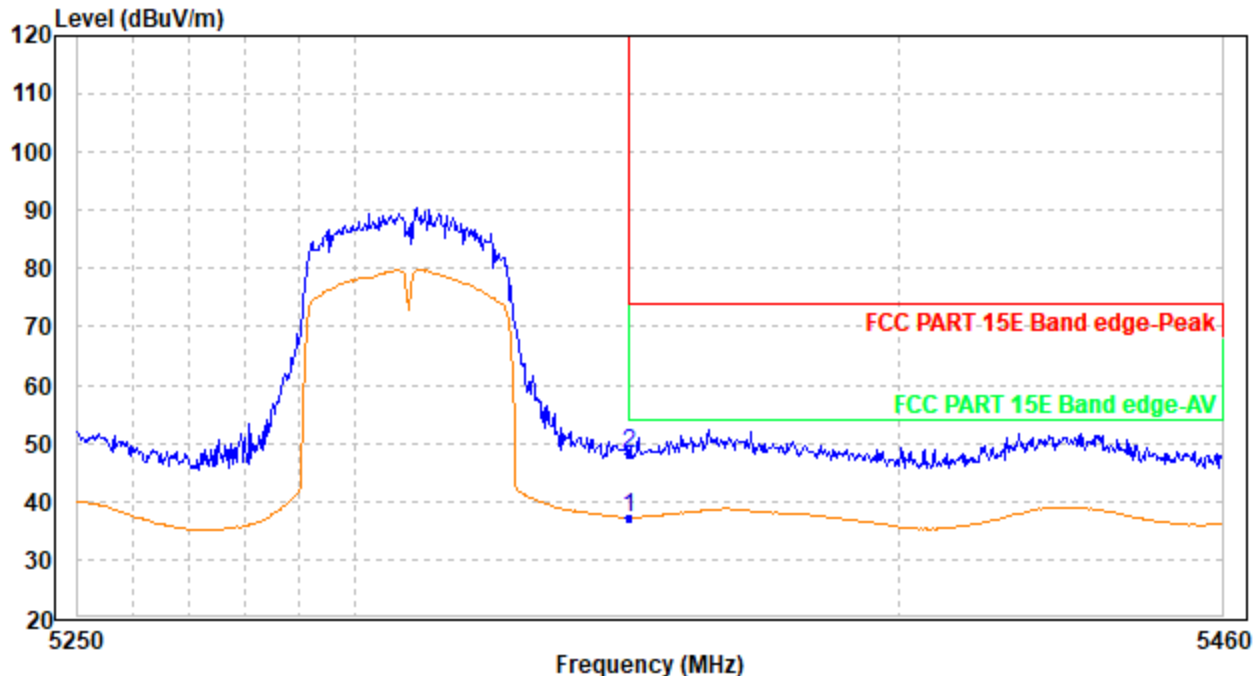
UTTR-RF-FCCPART15.407-V1.3

Test Channel:	TX1TX2_5G_AC40_5310	Ant Polar:	Horizontal
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Frequency (MHz)	Peak level (dBuV/m)	Peak Limit (dBuV/m)	AV level (dBuV/m)	AV Limit (dBuV/m)	Conclusion
5350.000	48.29	74.00	37.01	54.00	PASS

Test Channel:	TX1TX2_5G_AC40_5310	Ant Polar:	Vertical
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Frequency (MHz)	Peak level (dBuV/m)	Peak Limit (dBuV/m)	AV level (dBuV/m)	AV Limit (dBuV/m)	Conclusion
5350.000	48.17	74.00	37.33	54.00	PASS

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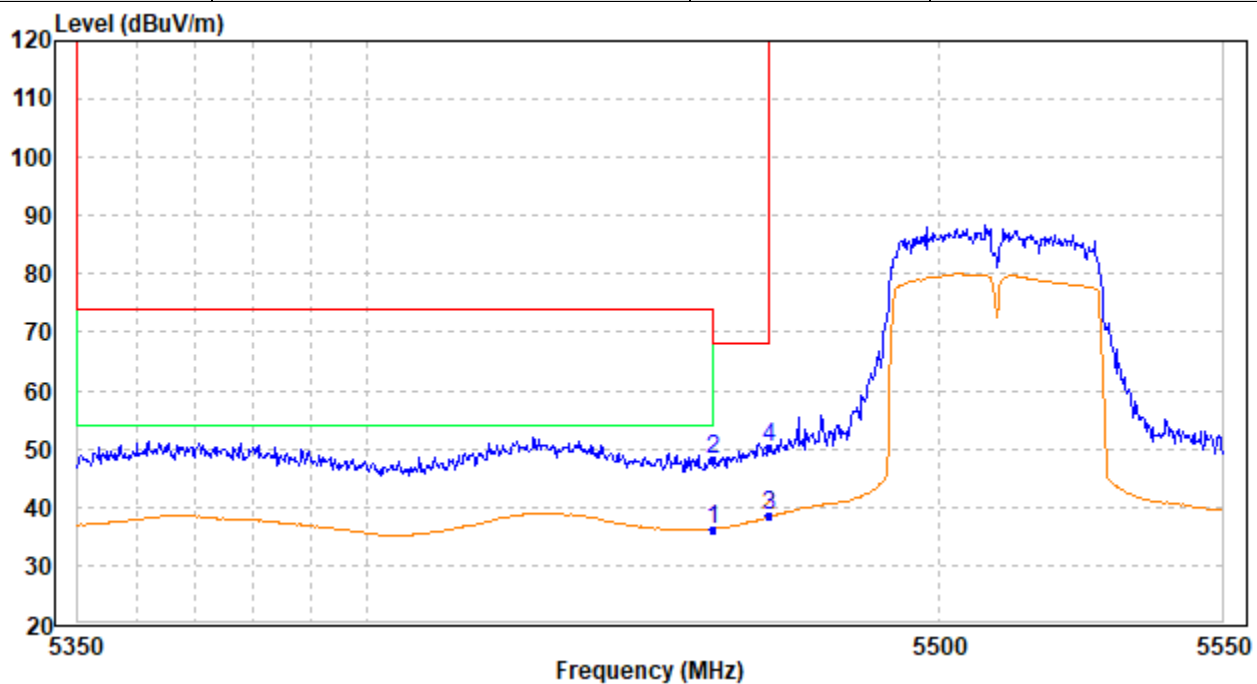
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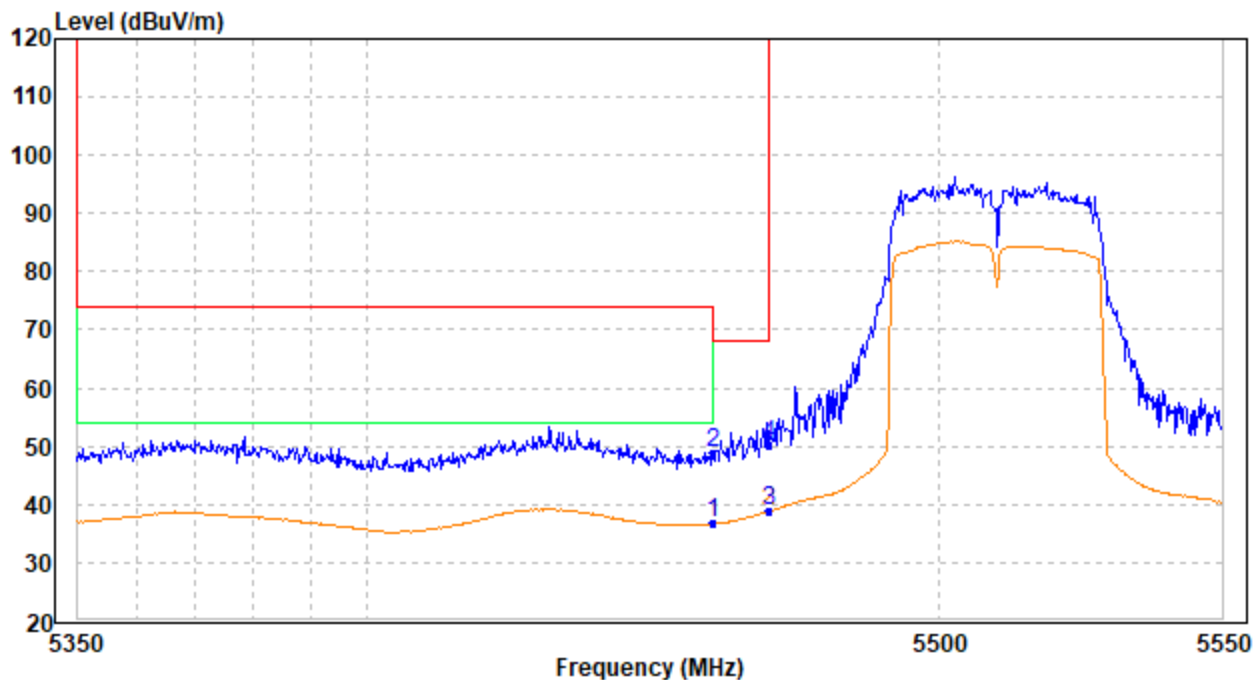
UTTR-RF-FCCPART15.407-V1.3

Test Channel:	TX1TX2_5G_AC40_5510	Ant Polar:	Horizontal
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Frequency (MHz)	Peak level (dBuV/m)	Peak Limit (dBuV/m)	AV level (dBuV/m)	AV Limit (dBuV/m)	Conclusion
5460.000	48.09	68.20	36.25	54.00	PASS
5470.000	50.19	68.20	38.42	68.20	PASS

Test Channel:	TX1TX2_5G_AC40_5510	Ant Polar:	Vertical
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Frequency (MHz)	Peak level (dBuV/m)	Peak Limit (dBuV/m)	AV level (dBuV/m)	AV Limit (dBuV/m)	Conclusion
5460.000	48.78	68.20	36.69	54.00	PASS
5470.000	50.10	68.20	38.96	68.20	PASS

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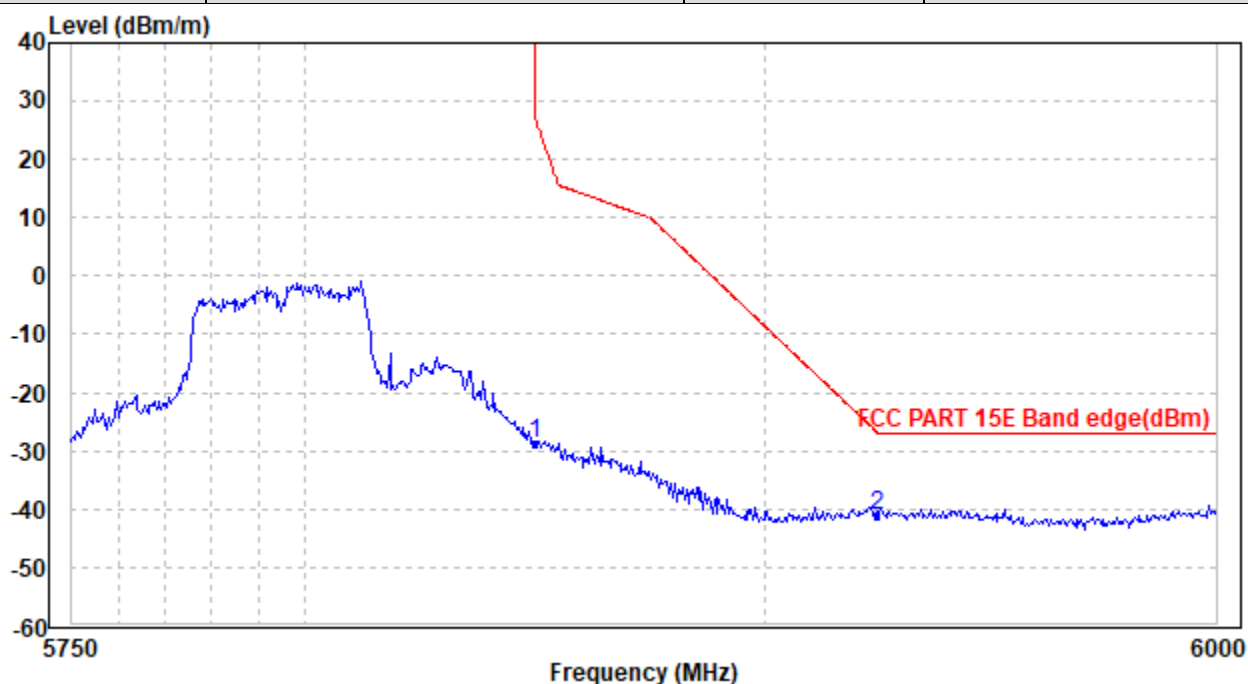
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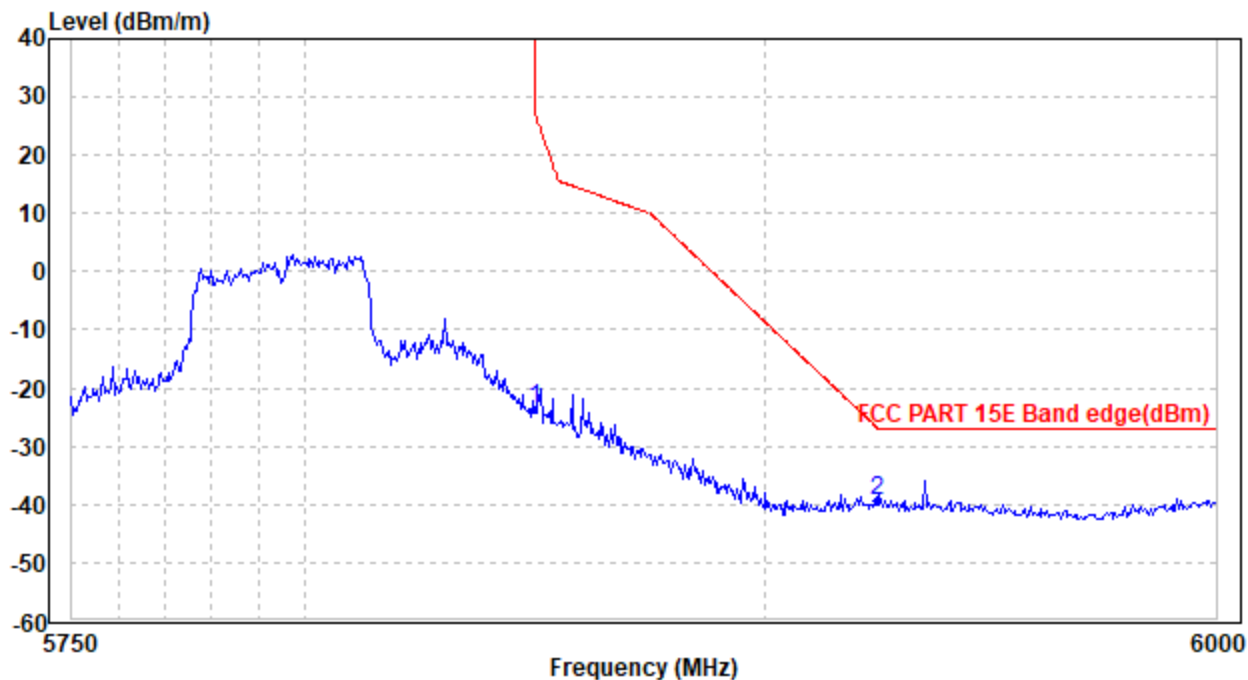
UTTR-RF-FCCPART15.407-V1.3

Test Channel:	TX1TX2_5G_AC40_5795	Ant Polar:	Horizontal
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Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	AV level (dBμV/m)	AV Limit (dBμV/m)	Conclusion
5850.000	-28.71	27.00	--	--	PASS
5925.000	-41.03	-27.00	--	--	PASS

Test Channel:	TX1TX2_5G_AC40_5795	Ant Polar:	Vertical
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Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	AV level (dBμV/m)	AV Limit (dBμV/m)	Conclusion
5850.000	-23.73	27.00	--	--	PASS
5925.000	-39.45	-27.00	--	--	PASS

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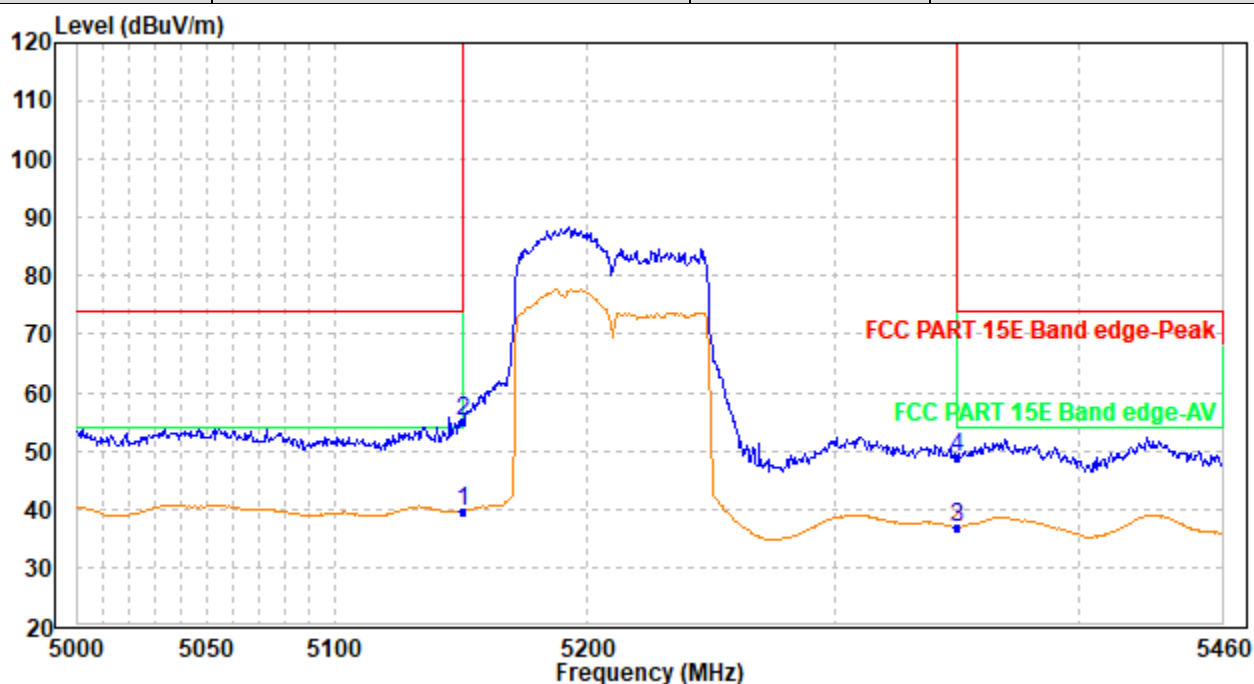
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<http://www.uttlab.com>

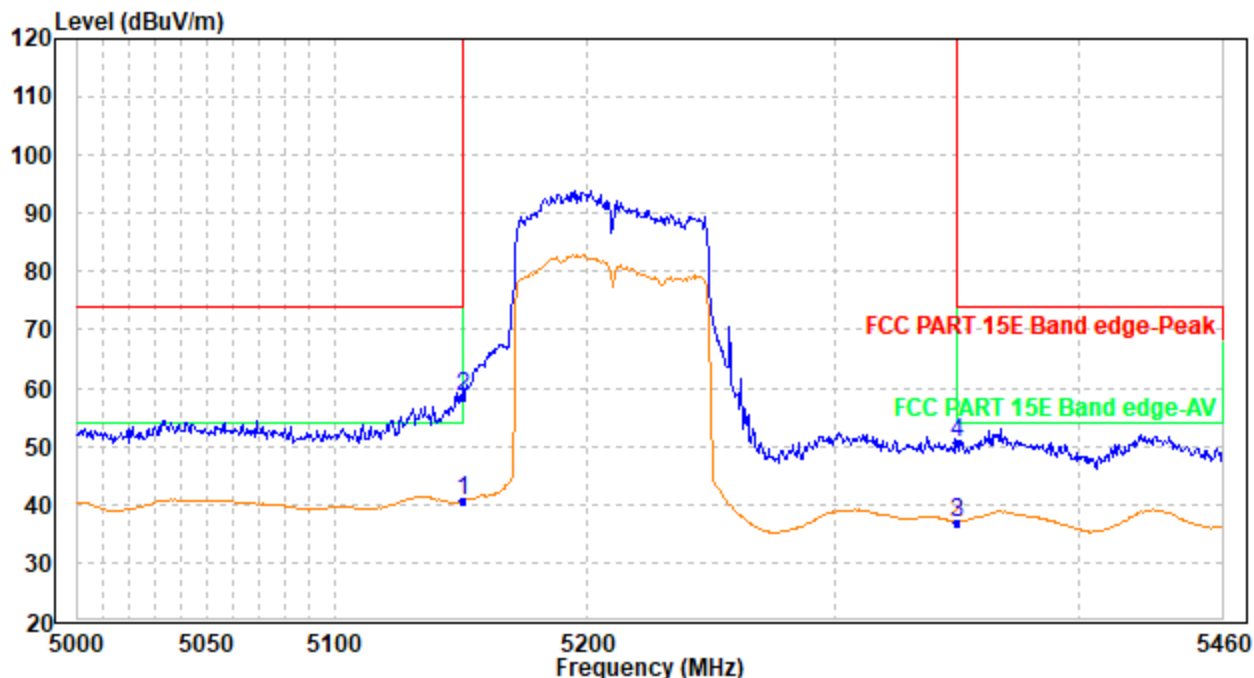
UTTR-RF-FCCPART15.407-V1.3

Test Channel:	TX1TX2_5G_AC80_5210	Ant Polar:	Horizontal
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Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	AV level (dBμV/m)	AV Limit (dBμV/m)	Conclusion
5150.000	54.91	74.00	39.68	54.00	PASS
5350.000	48.80	74.00	36.98	54.00	PASS

Test Channel:	TX1TX2_5G_AC80_5210	Ant Polar:	Vertical
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Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	AV level (dBμV/m)	AV Limit (dBμV/m)	Conclusion
5150.000	58.42	74.00	40.55	54.00	PASS
5350.000	50.64	74.00	37.00	54.00	PASS

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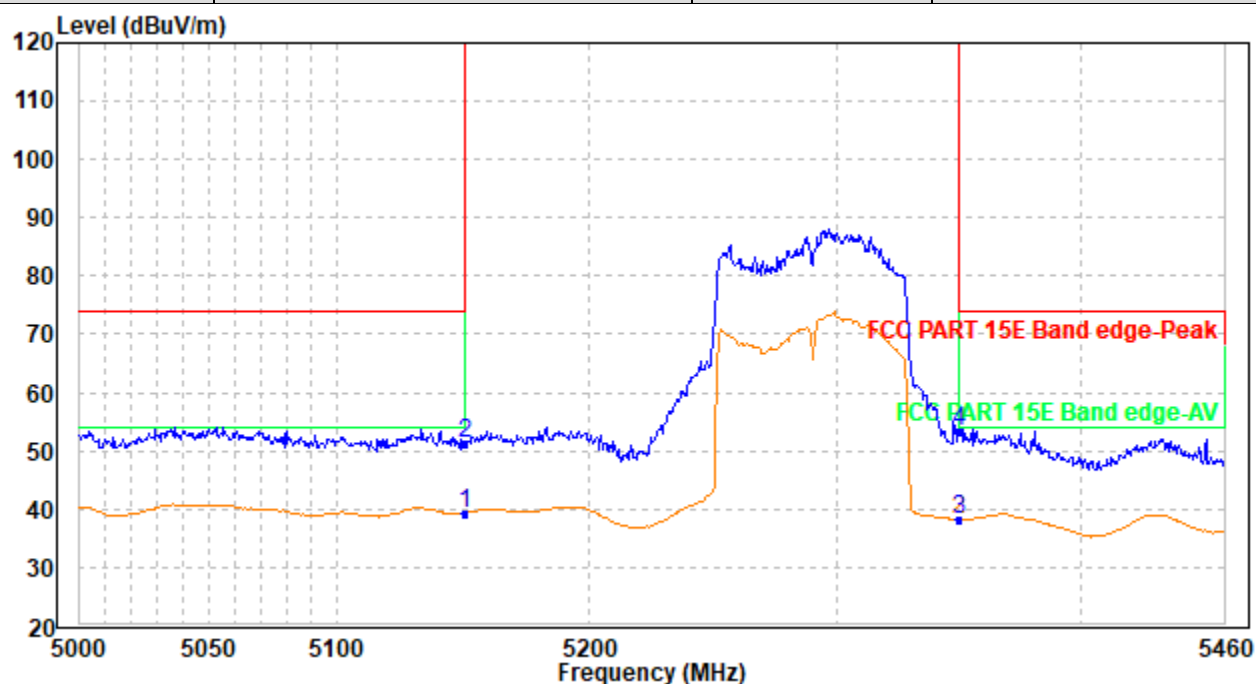
Fax: +86-755-28230886

E-mail: info@uttlab.com

<http://www.uttlab.com>

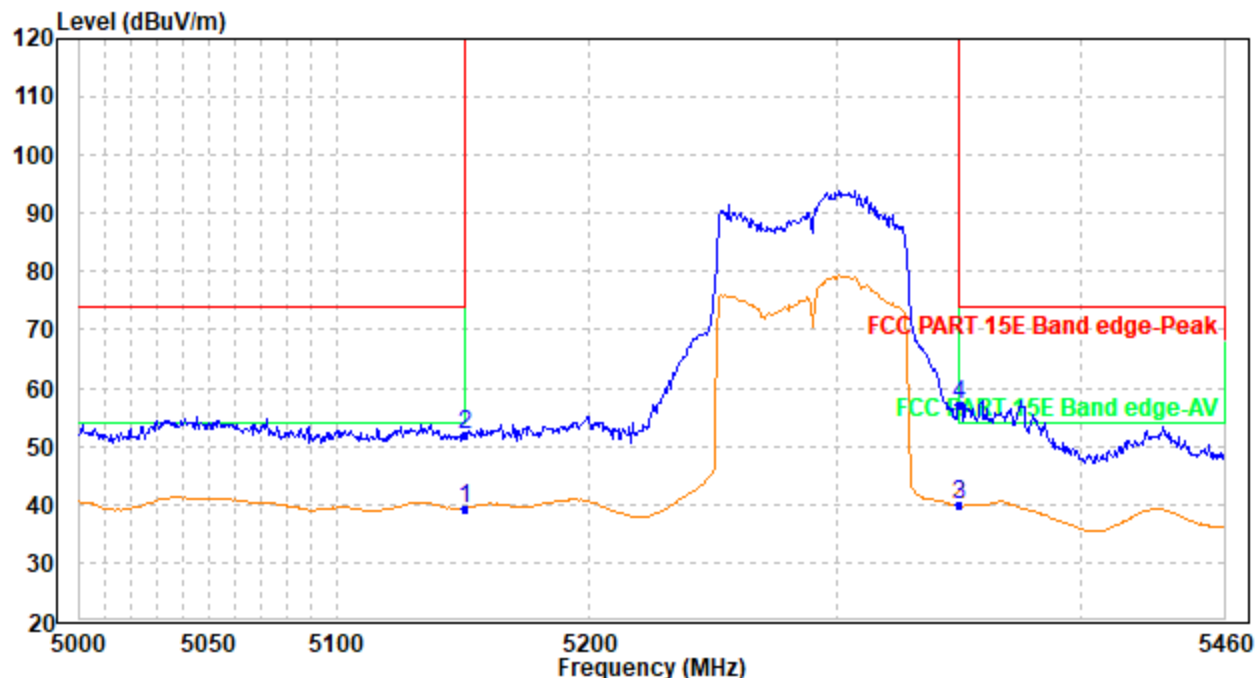
UTTR-RF-FCCPART15.407-V1.3

Test Channel:	TX1TX2_5G_AC80_5290	Ant Polar:	Horizontal
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Frequency (MHz)	Peak level (dBuV/m)	Peak Limit (dBuV/m)	AV level (dBuV/m)	AV Limit (dBuV/m)	Conclusion
5150.000	51.19	74.00	39.21	54.00	PASS
5350.000	53.18	74.00	38.16	54.00	PASS

Test Channel:	TX1TX2_5G_AC80_5290	Ant Polar:	Vertical
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Frequency (MHz)	Peak level (dBuV/m)	Peak Limit (dBuV/m)	AV level (dBuV/m)	AV Limit (dBuV/m)	Conclusion
5150.000	51.79	74.00	39.33	54.00	PASS
5350.000	57.05	74.00	39.79	54.00	PASS

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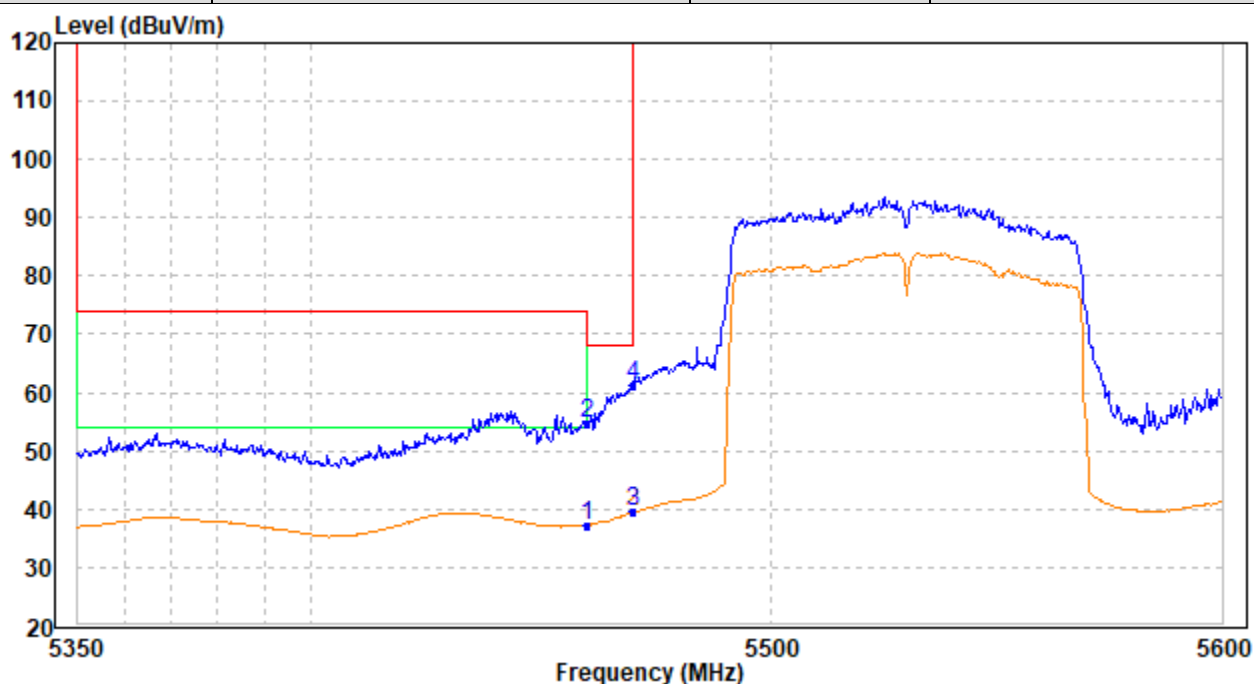
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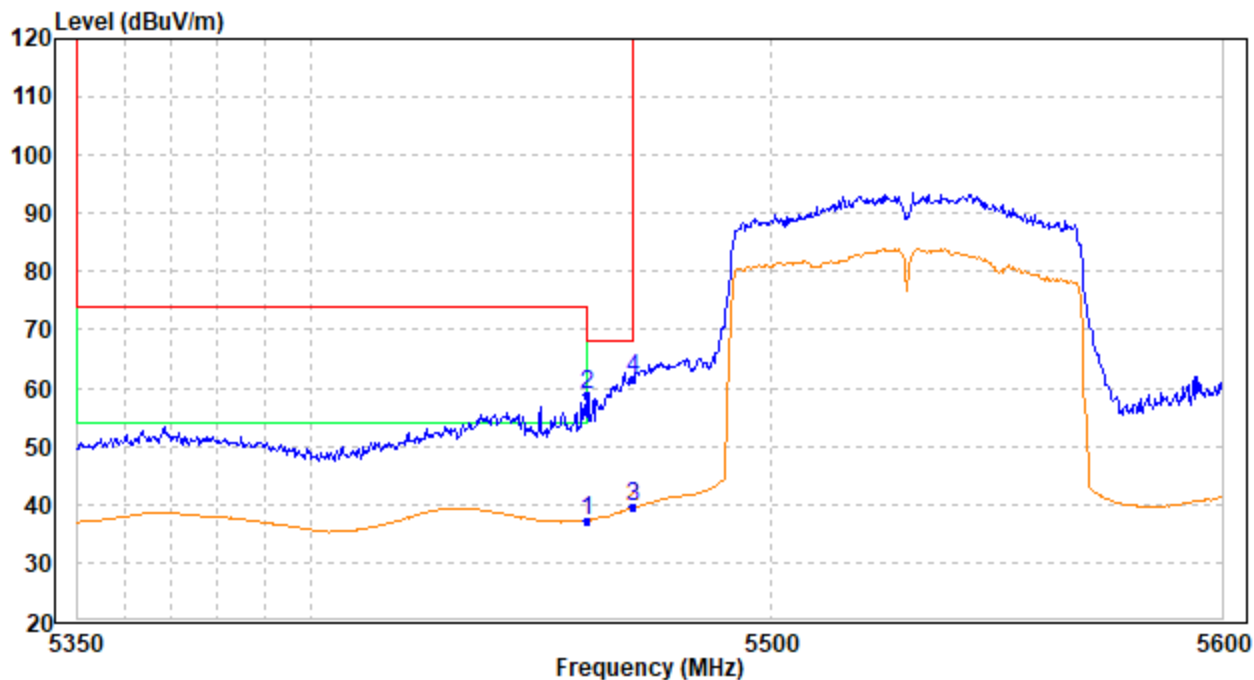
UTTR-RF-FCCPART15.407-V1.3

Test Channel:	TX1TX2_5G_AC80_5530	Ant Polar:	Horizontal
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Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	AV level (dBμV/m)	AV Limit (dBμV/m)	Conclusion
5460.000	54.76	68.20	37.33	54.00	PASS
5470.000	61.33	68.20	39.46	68.20	PASS

Test Channel:	TX1TX2_5G_AC80_5530	Ant Polar:	Vertical
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Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	AV level (dBμV/m)	AV Limit (dBμV/m)	Conclusion
5460.000	58.99	68.20	37.33	54.00	PASS
5470.000	61.52	68.20	39.46	68.20	PASS

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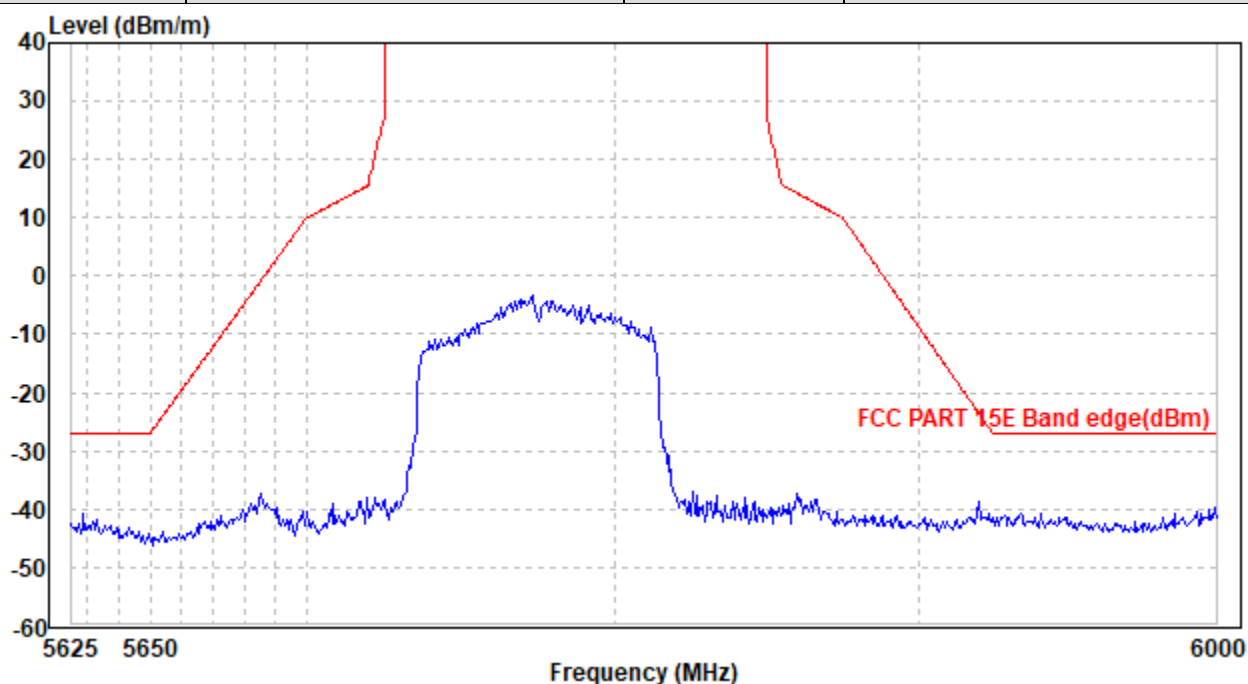
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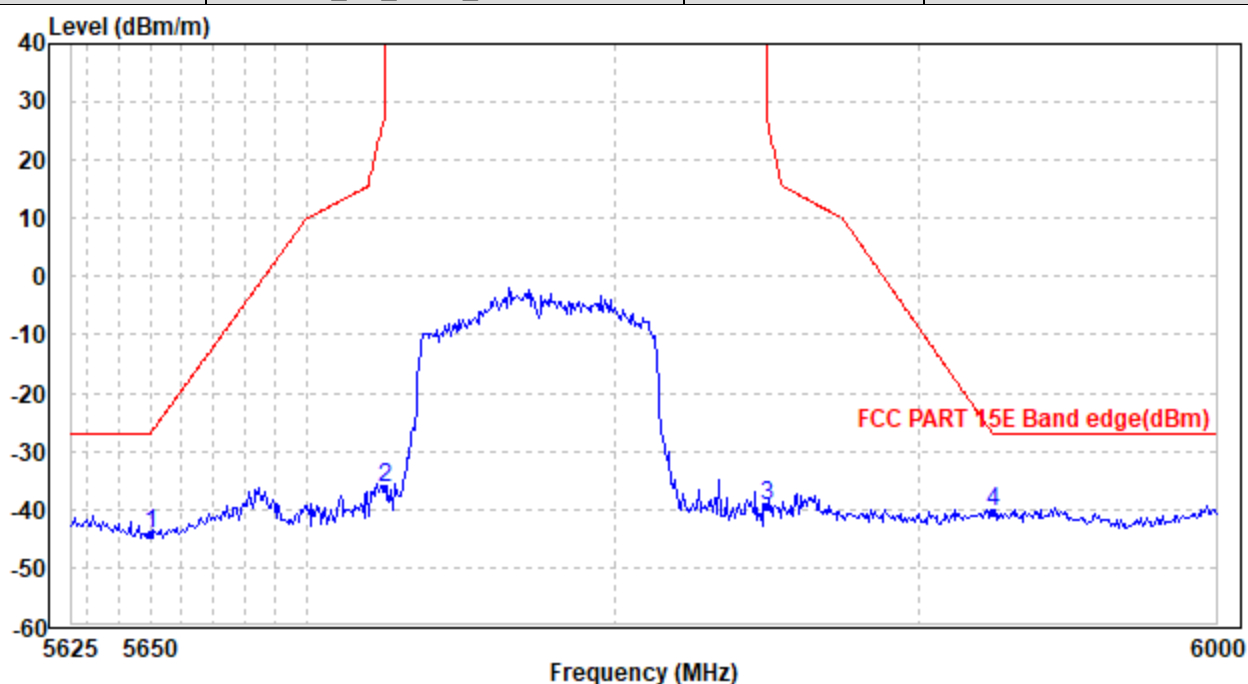
UTTR-RF-FCCPART15.407-V1.3

Test Channel:	TX1TX2_5G_AC80_5775	Ant Polar:	Horizontal
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Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	AV level (dBμV/m)	AV Limit (dBμV/m)	Conclusion
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Test Channel:	TX1TX2_5G_AC80_5775	Ant Polar:	Vertical
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Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	AV level (dBμV/m)	AV Limit (dBμV/m)	Conclusion
5650.000	-44.31	-27.00	--	--	PASS
5725.000	-36.16	27.00	--	--	PASS
5850.000	-39.23	27.00	--	--	PASS
5925.000	-40.56	-27.00	--	--	PASS

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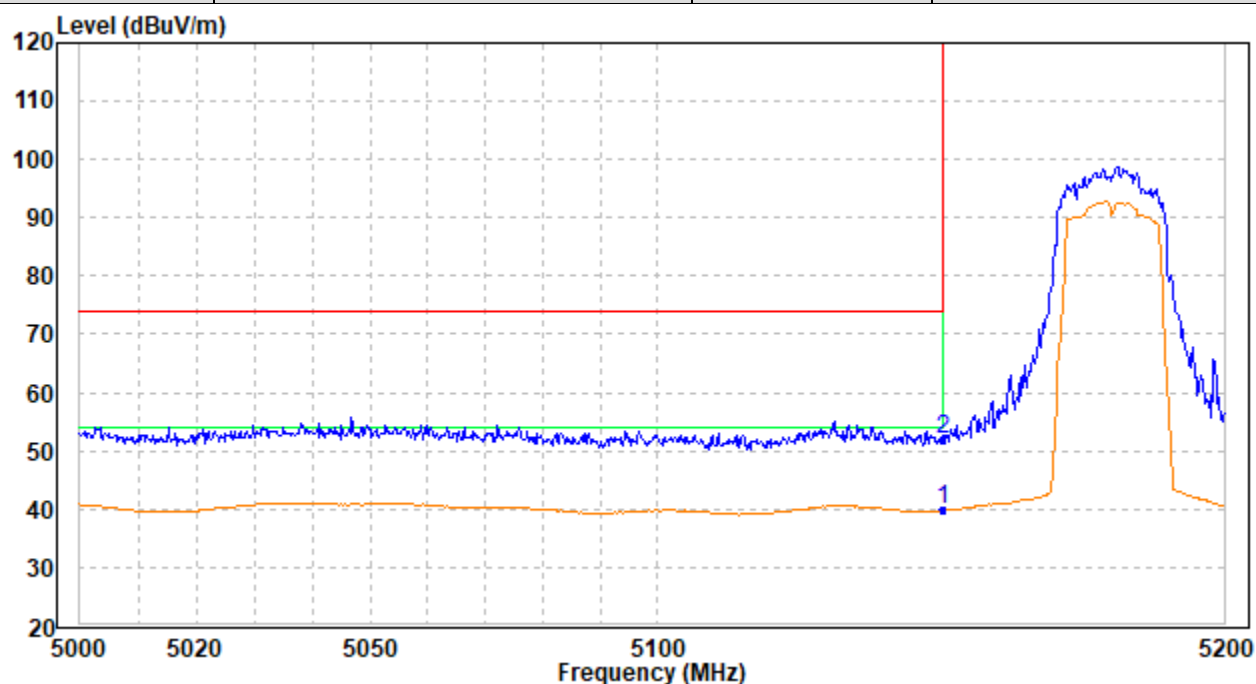
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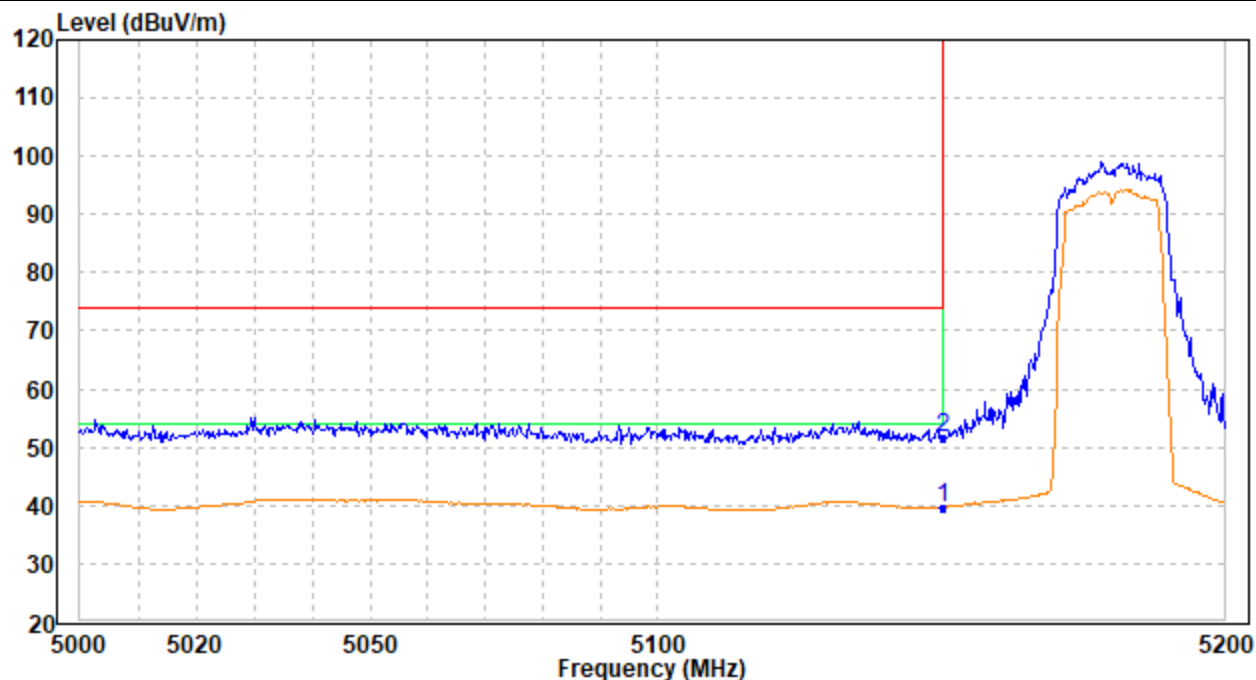
UTTR-RF-FCCPART15.407-V1.3

Test Channel:	TX1TX2_5G_AX20_5180	Ant Polar:	Horizontal
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Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	AV level (dBμV/m)	AV Limit (dBμV/m)	Conclusion
5150.000	51.94	74.00	39.78	54.00	PASS

Test Channel:	TX1TX2_5G_AX20_5180	Ant Polar:	Vertical
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Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	AV level (dBμV/m)	AV Limit (dBμV/m)	Conclusion
5150.000	51.78	74.00	39.71	54.00	PASS

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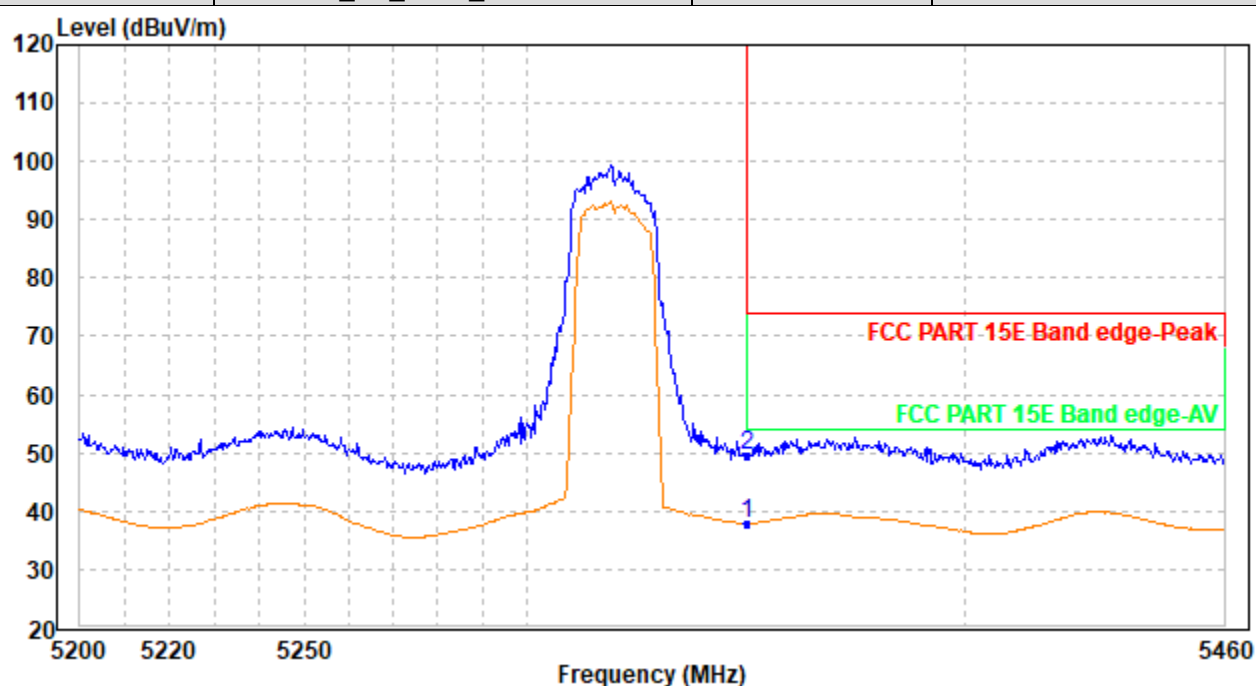
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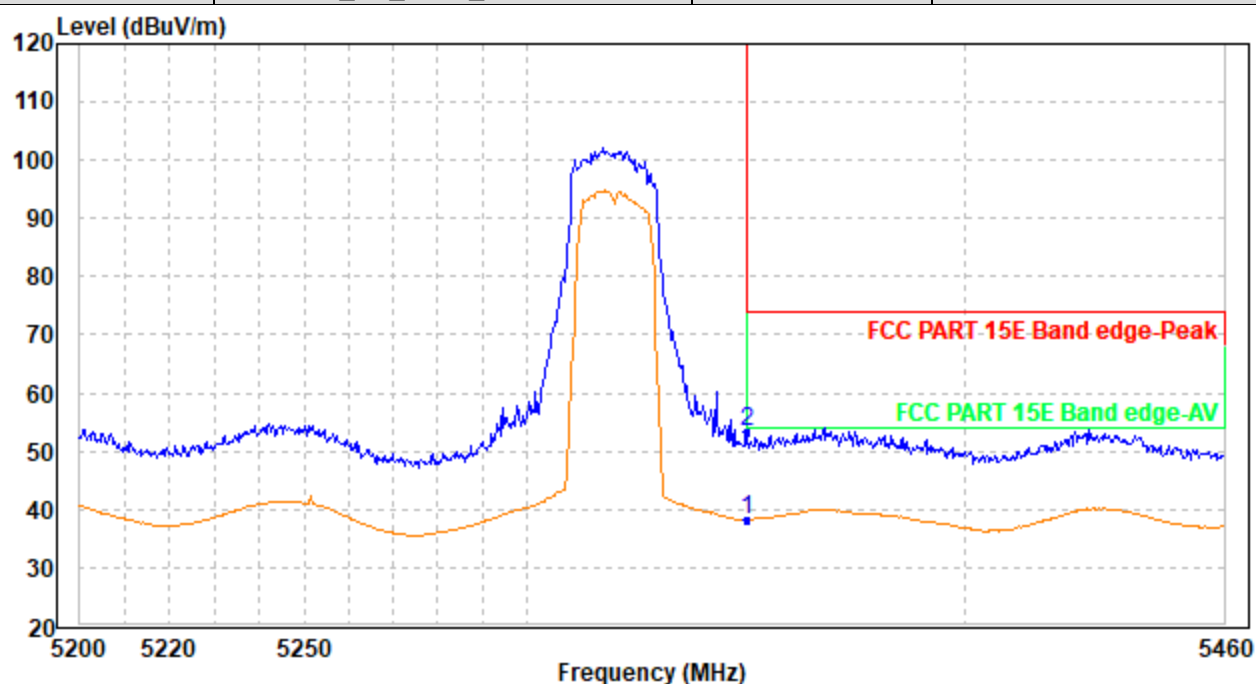
UTTR-RF-FCCPART15.407-V1.3

Test Channel:	TX1TX2_5G_AX20_5320	Ant Polar:	Horizontal
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Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	AV level (dBμV/m)	AV Limit (dBμV/m)	Conclusion
5350.000	49.63	74.00	37.96	54.00	PASS

Test Channel:	TX1TX2_5G_AX20_5320	Ant Polar:	Vertical
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Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	AV level (dBμV/m)	AV Limit (dBμV/m)	Conclusion
5350.000	53.27	74.00	38.31	54.00	PASS

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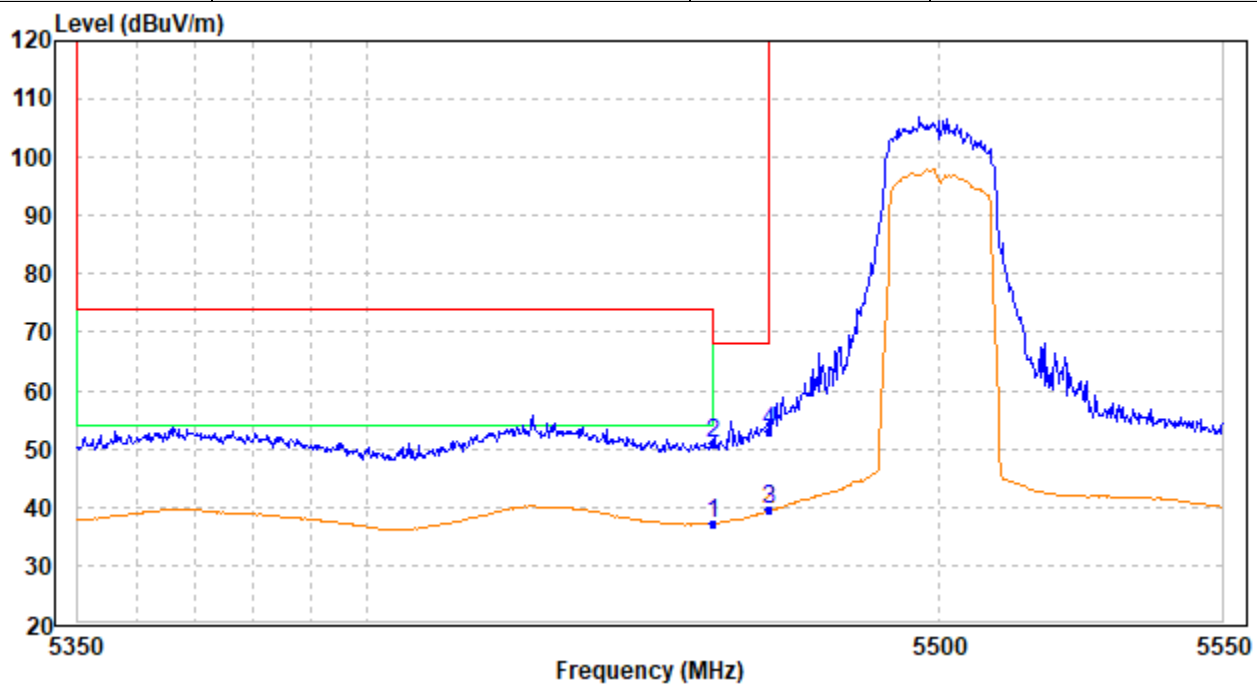
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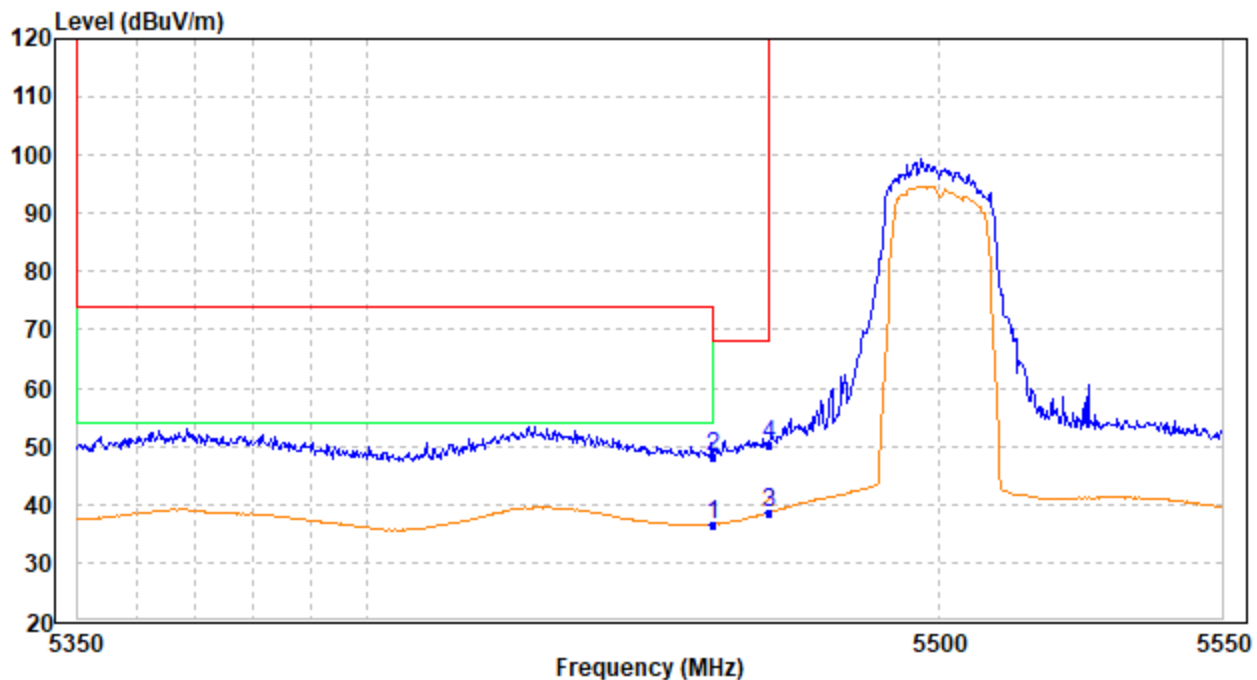
UTTR-RF-FCCPART15.407-V1.3

Test Channel:	TX1TX2_5G_AX20_5500	Ant Polar:	Horizontal
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Frequency (MHz)	Peak level (dBuV/m)	Peak Limit (dBuV/m)	AV level (dBuV/m)	AV Limit (dBuV/m)	Conclusion
5460.000	50.91	68.20	37.21	54.00	PASS
5470.000	53.05	68.20	39.51	68.20	PASS

Test Channel:	TX1TX2_5G_AX20_5500	Ant Polar:	Vertical
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Frequency (MHz)	Peak level (dBuV/m)	Peak Limit (dBuV/m)	AV level (dBuV/m)	AV Limit (dBuV/m)	Conclusion
5460.000	48.14	68.20	36.59	54.00	PASS
5470.000	50.29	68.20	38.70	68.20	PASS

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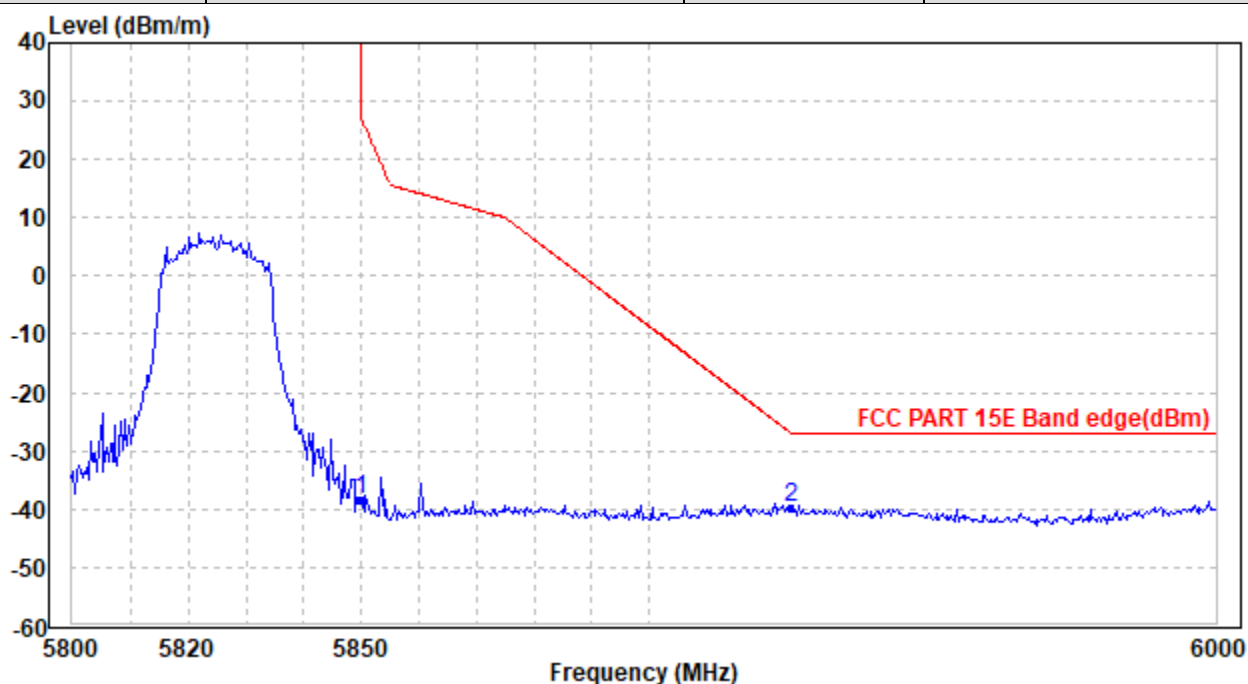
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<http://www.uttlab.com>

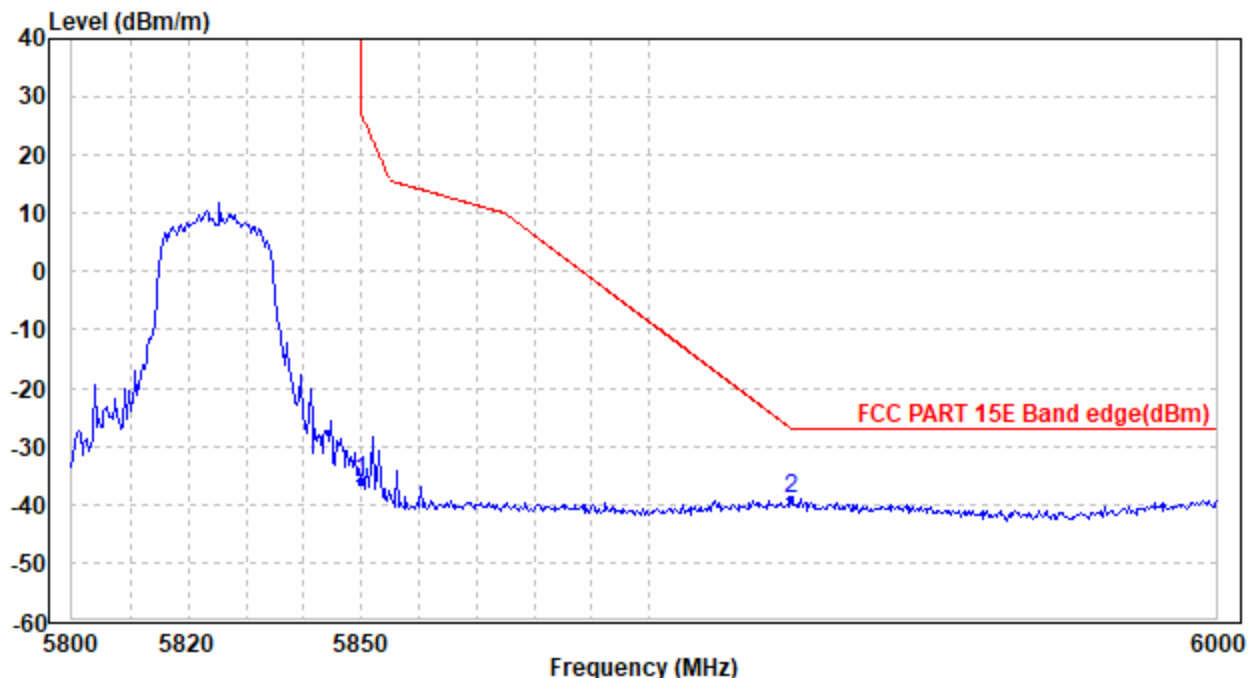
UTTR-RF-FCCPART15.407-V1.3

Test Channel:	TX1TX2_5G_AX20_5825	Ant Polar:	Horizontal
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Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	AV level (dBμV/m)	AV Limit (dBμV/m)	Conclusion
5850.000	-38.34	27.00	--	--	PASS
5925.000	-39.71	-27.00	--	--	PASS

Test Channel:	TX1TX2_5G_AX20_5825	Ant Polar:	Vertical
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Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	AV level (dBμV/m)	AV Limit (dBμV/m)	Conclusion
5850.000	-35.81	27.00	--	--	PASS
5925.000	-39.02	-27.00	--	--	PASS

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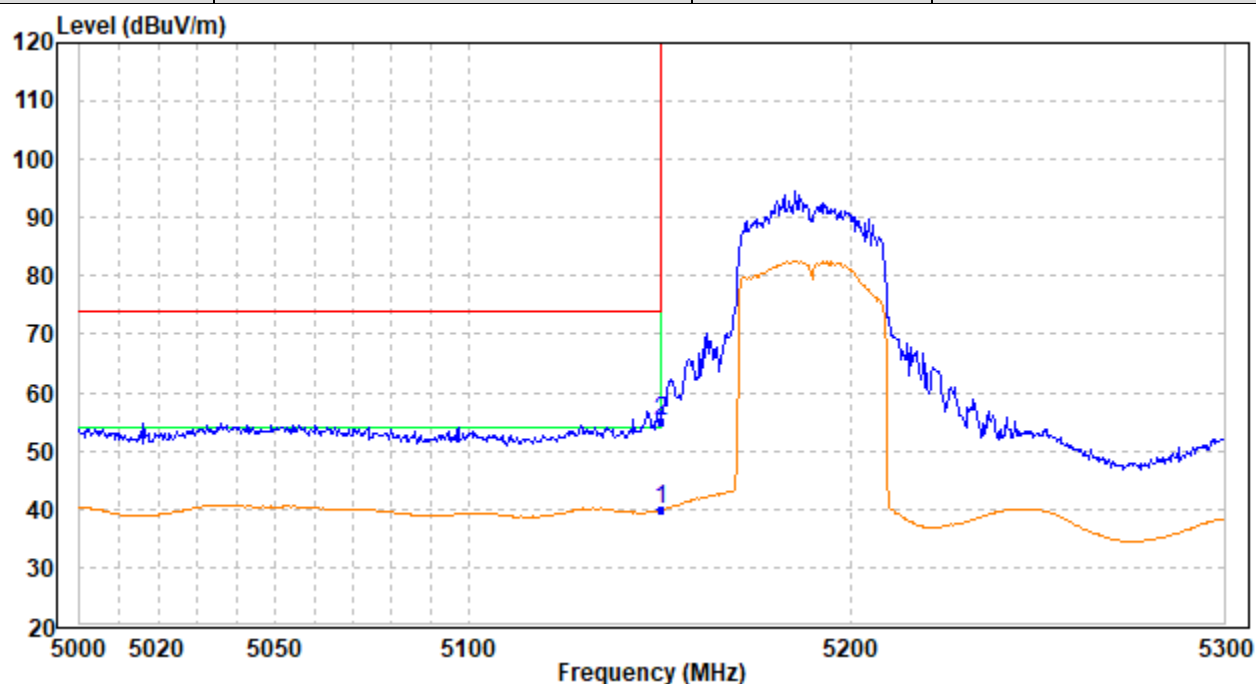
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<http://www.uttlab.com>

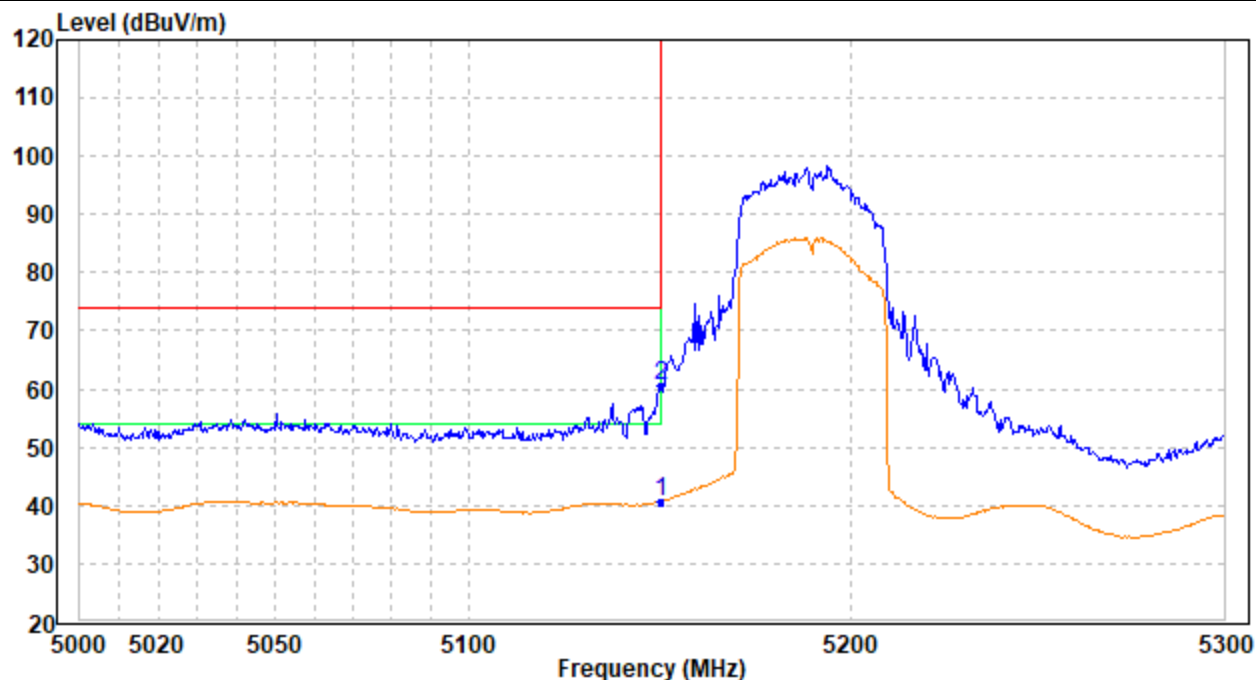
UTTR-RF-FCCPART15.407-V1.3

Test Channel:	TX1TX2_5G_AX40_5190	Ant Polar:	Horizontal
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Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	AV level (dBμV/m)	AV Limit (dBμV/m)	Conclusion
5150.000	55.14	74.00	39.77	54.00	PASS

Test Channel:	TX1TX2_5G_AX40_5190	Ant Polar:	Vertical
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Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	AV level (dBμV/m)	AV Limit (dBμV/m)	Conclusion
5150.000	60.53	74.00	40.70	54.00	PASS

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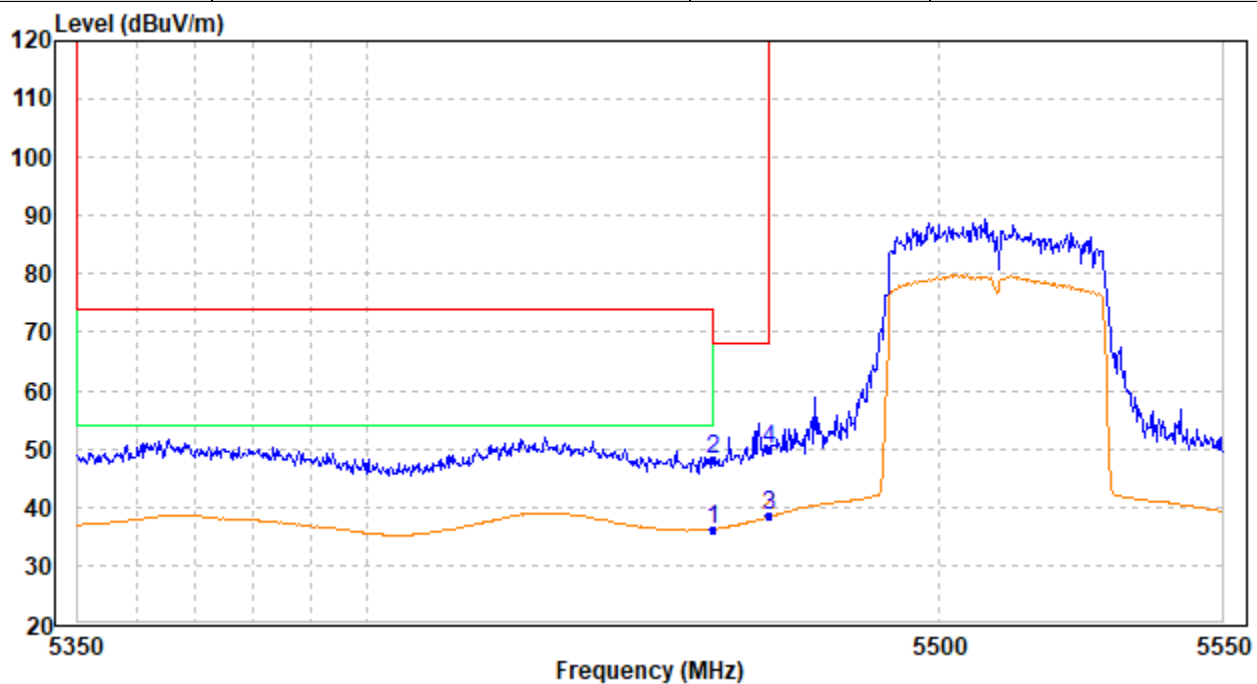
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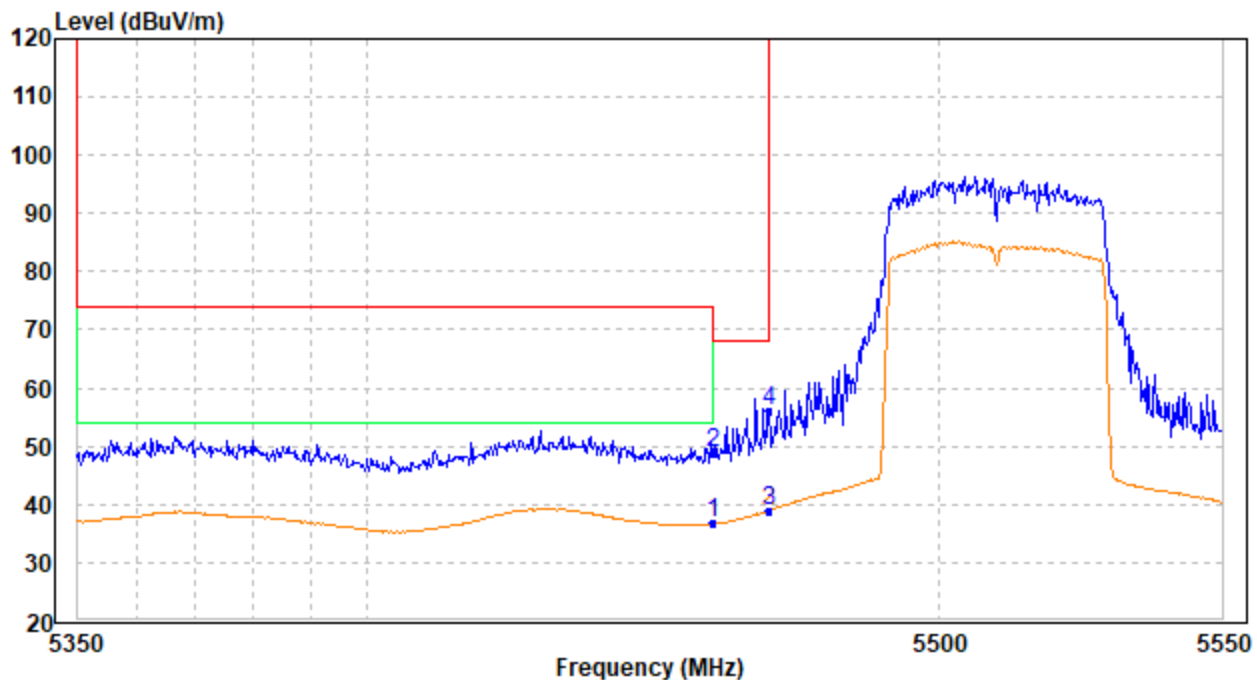
UTTR-RF-FCCPART15.407-V1.3

Test Channel:	TX1TX2_5G_AX40_5510	Ant Polar:	Horizontal
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Frequency (MHz)	Peak level (dBuV/m)	Peak Limit (dBuV/m)	AV level (dBuV/m)	AV Limit (dBuV/m)	Conclusion
5460.000	48.06	68.20	36.23	54.00	PASS
5470.000	49.98	68.20	38.41	68.20	PASS

Test Channel:	TX1TX2_5G_AX40_5510	Ant Polar:	Vertical
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Frequency (MHz)	Peak level (dBuV/m)	Peak Limit (dBuV/m)	AV level (dBuV/m)	AV Limit (dBuV/m)	Conclusion
5460.000	48.75	68.20	36.69	54.00	PASS
5470.000	55.95	68.20	39.03	68.20	PASS

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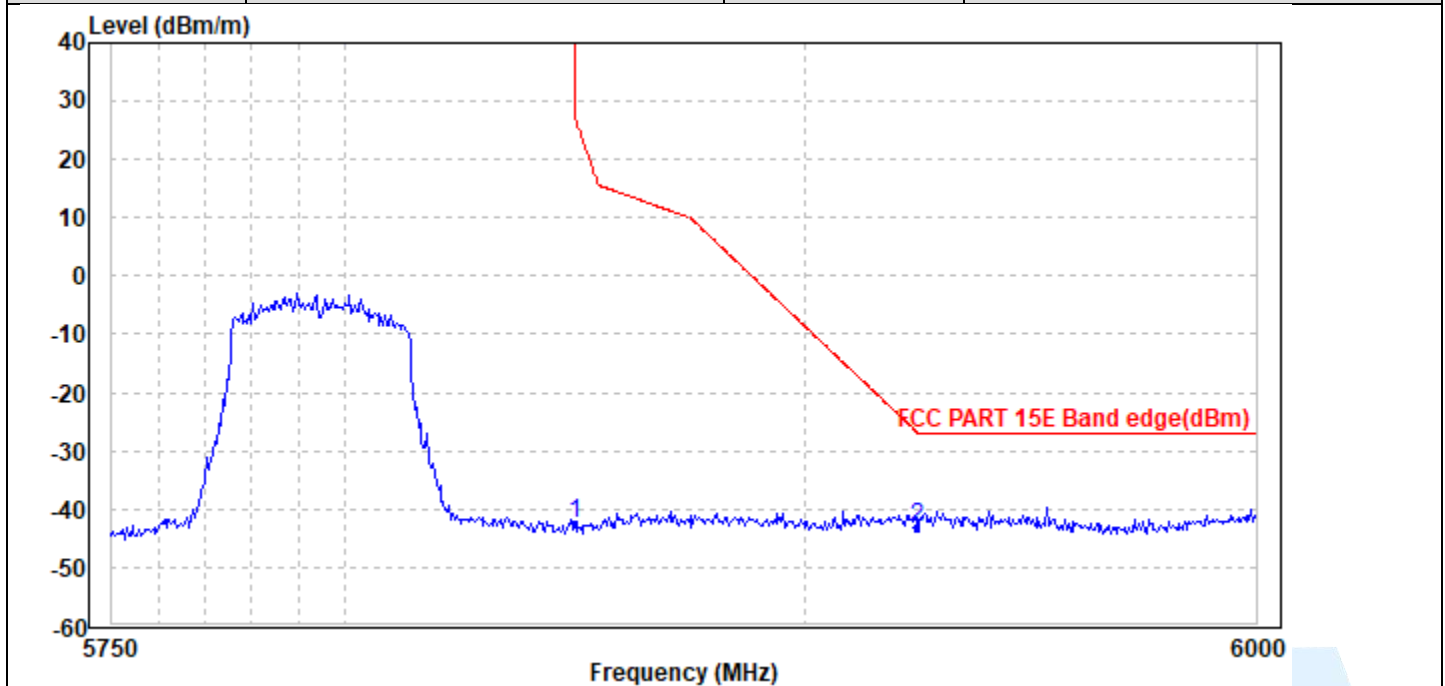
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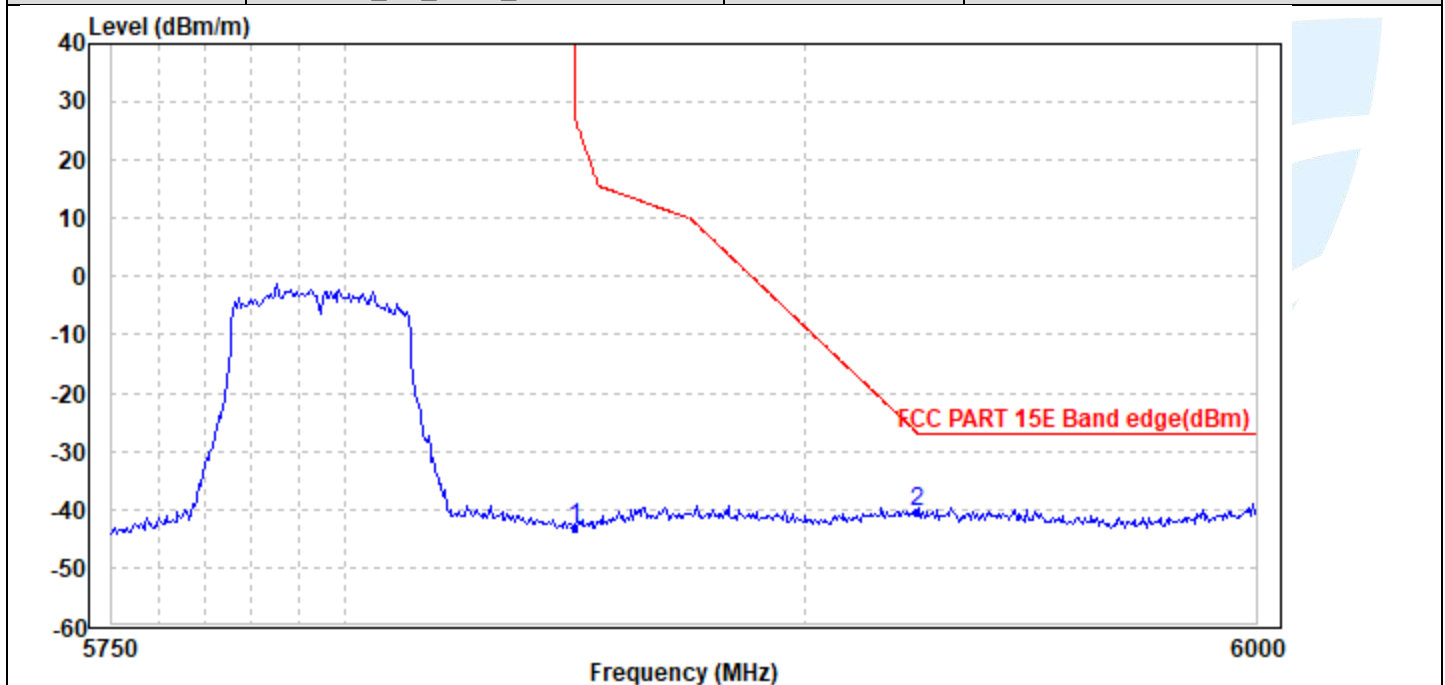
UTTR-RF-FCCPART15.407-V1.3

Test Channel:	TX1TX2_5G_AX40_5795	Ant Polar:	Horizontal
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Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	AV level (dBμV/m)	AV Limit (dBμV/m)	Conclusion
5850.000	-42.51	27.00	--	--	PASS
5925.000	-43.01	-27.00	--	--	PASS

Test Channel:	TX1TX2_5G_AX40_5795	Ant Polar:	Vertical
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Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	AV level (dBμV/m)	AV Limit (dBμV/m)	Conclusion
5850.000	-43.11	27.00	--	--	PASS
5925.000	-40.33	-27.00	--	--	PASS

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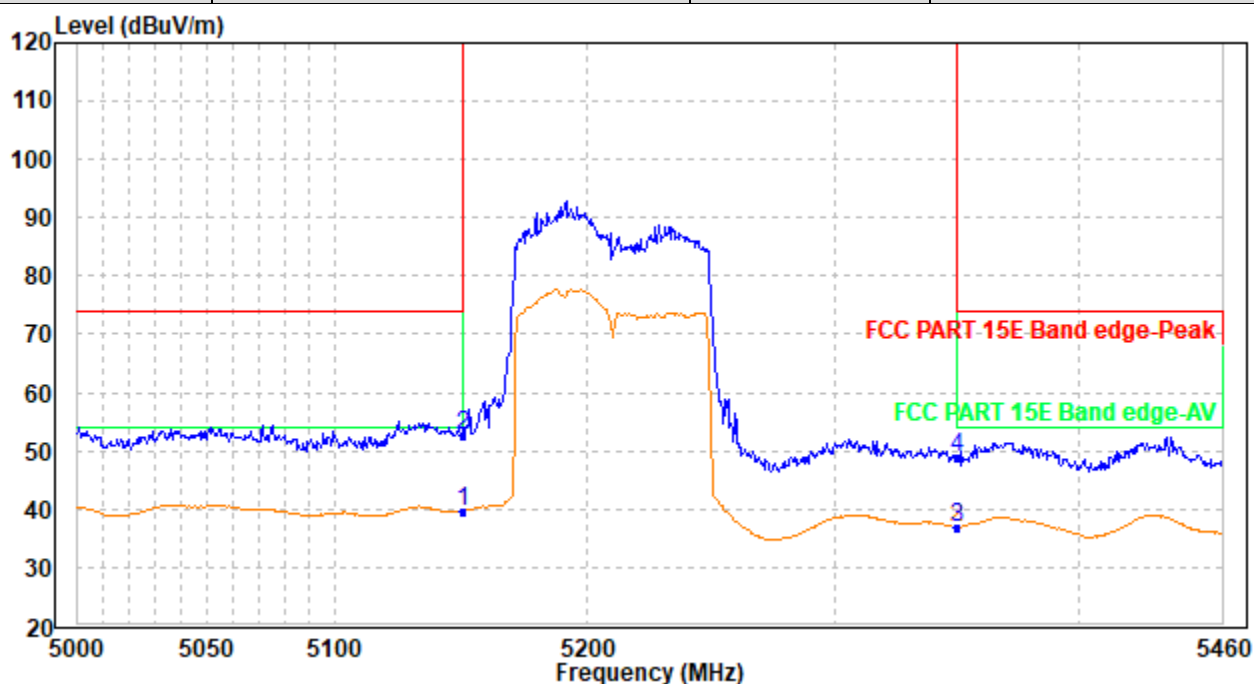
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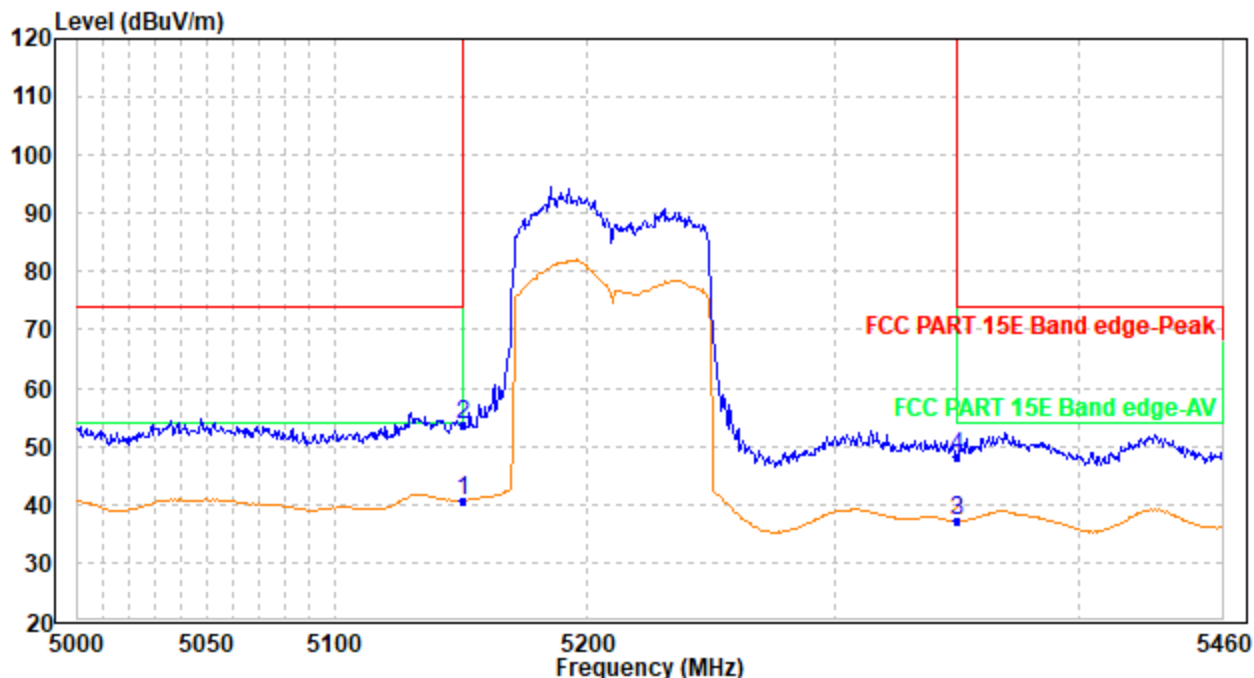
UTTR-RF-FCCPART15.407-V1.3

Test Channel:	TX1TX2_5G_AX80_5210	Ant Polar:	Horizontal
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Frequency (MHz)	Peak level (dBuV/m)	Peak Limit (dBuV/m)	AV level (dBuV/m)	AV Limit (dBuV/m)	Conclusion
5150.000	52.51	74.00	39.68	54.00	PASS
5350.000	48.91	74.00	36.98	54.00	PASS

Test Channel:	TX1TX2_5G_AX80_5210	Ant Polar:	Vertical
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Frequency (MHz)	Peak level (dBuV/m)	Peak Limit (dBuV/m)	AV level (dBuV/m)	AV Limit (dBuV/m)	Conclusion
5150.000	53.63	74.00	40.60	54.00	PASS
5350.000	48.06	74.00	37.10	54.00	PASS

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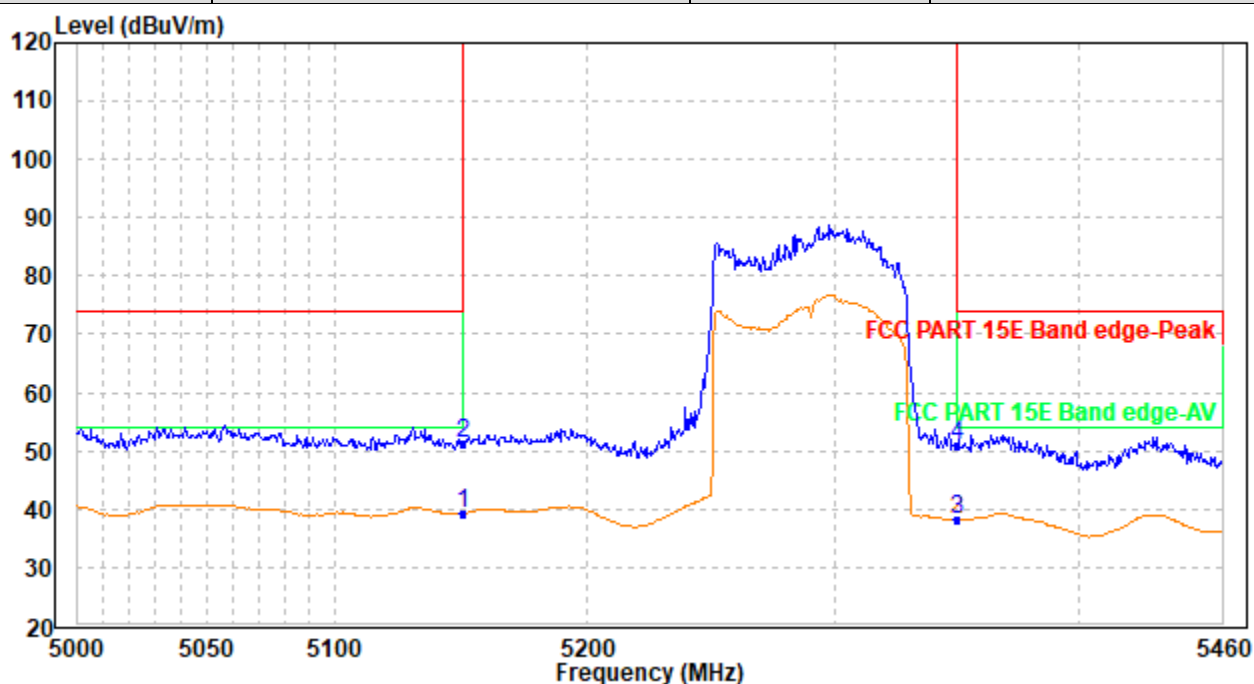
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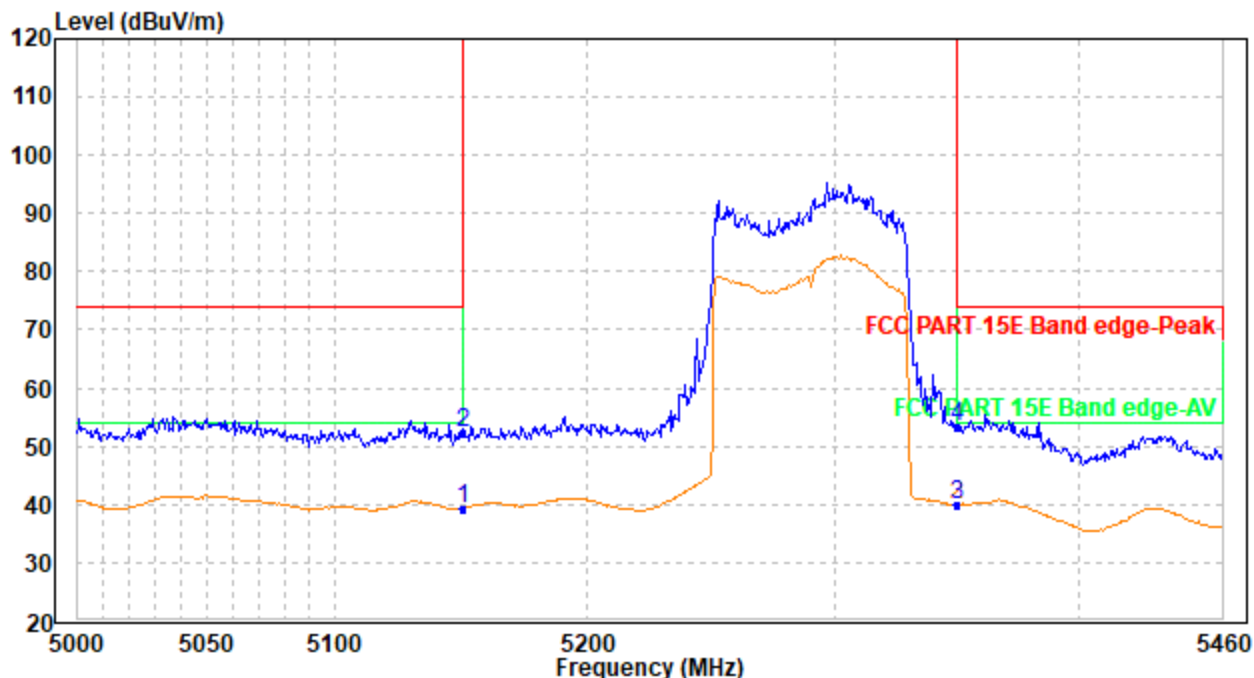
UTTR-RF-FCCPART15.407-V1.3

Test Channel:	TX1TX2_5G_AX80_5290	Ant Polar:	Horizontal
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Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	AV level (dBμV/m)	AV Limit (dBμV/m)	Conclusion
5150.000	51.11	74.00	39.23	54.00	PASS
5350.000	50.91	74.00	38.12	54.00	PASS

Test Channel:	TX1TX2_5G_AX80_5290	Ant Polar:	Vertical
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Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	AV level (dBμV/m)	AV Limit (dBμV/m)	Conclusion
5150.000	52.32	74.00	39.34	54.00	PASS
5350.000	53.30	74.00	40.02	54.00	PASS

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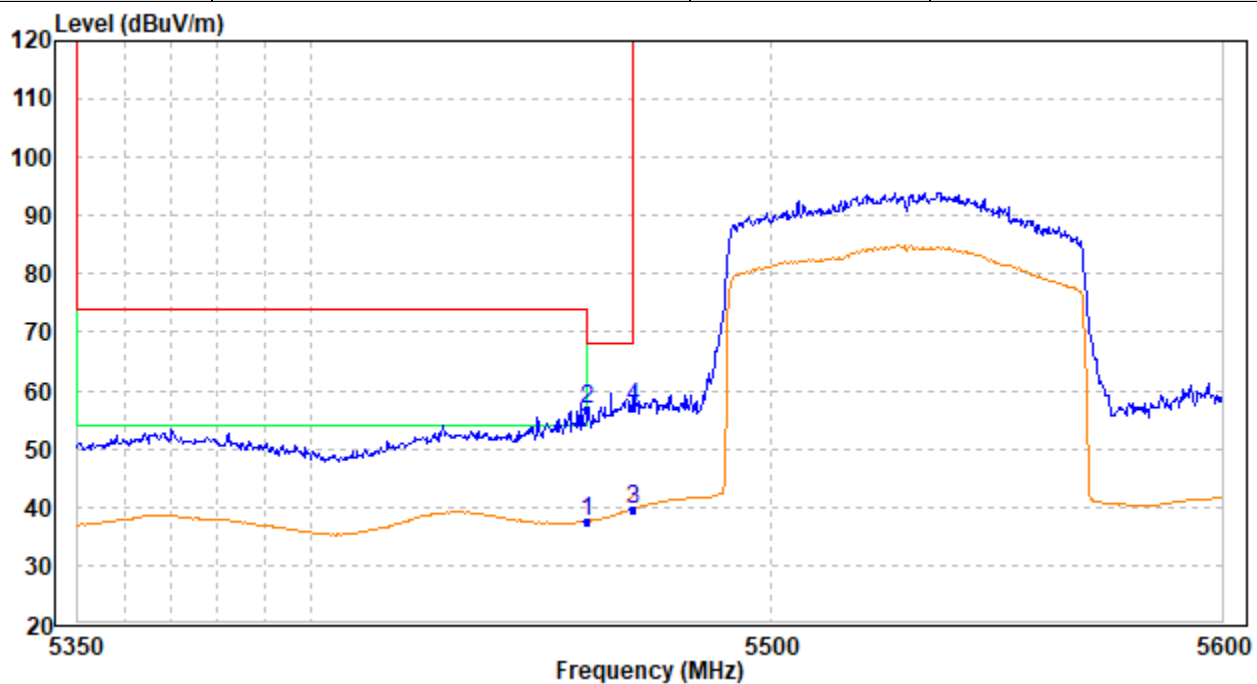
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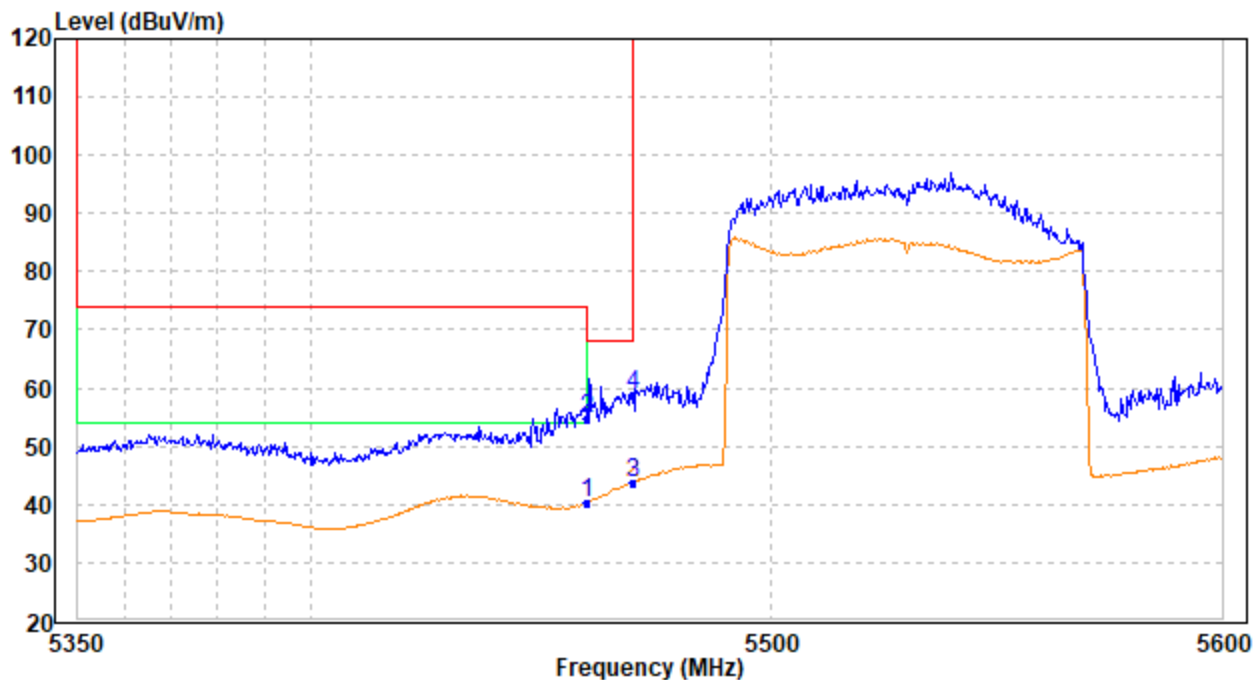
UTTR-RF-FCCPART15.407-V1.3

Test Channel:	TX1TX2_5G_AX80_5530	Ant Polar:	Horizontal
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Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	AV level (dBμV/m)	AV Limit (dBμV/m)	Conclusion
5460.000	56.93	68.20	37.47	54.00	PASS
5470.000	56.94	68.20	39.68	68.20	PASS

Test Channel:	TX1TX2_5G_AX80_5530	Ant Polar:	Vertical
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Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	AV level (dBμV/m)	AV Limit (dBμV/m)	Conclusion
5460.000	54.64	68.20	40.39	54.00	PASS
5470.000	58.91	68.20	43.77	68.20	PASS

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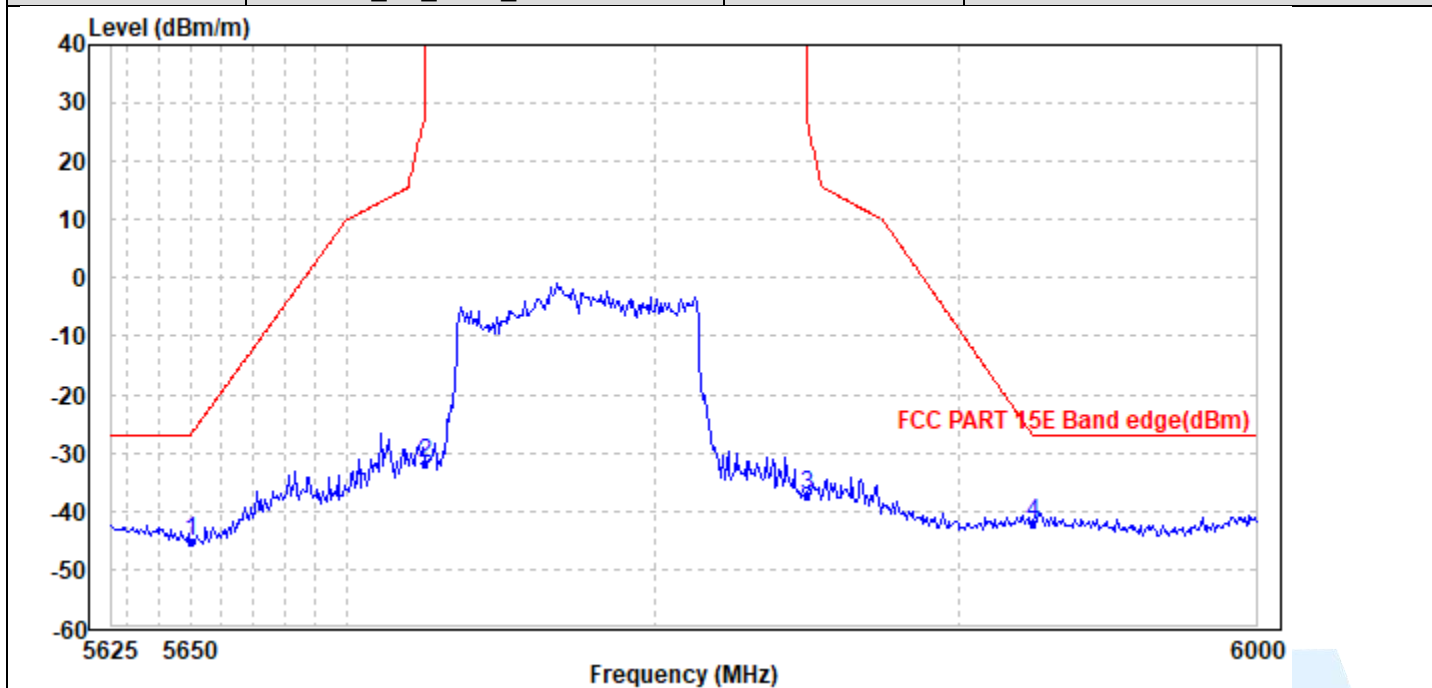
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Test Channel:	TX1TX2_5G_AX80_5775	Ant Polar:	Horizontal
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Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	AV level (dBμV/m)	AV Limit (dBμV/m)	Conclusion
5650.000	-45.19	-27.00	--	--	PASS
5725.000	-31.90	27.00	--	--	PASS
5850.000	-37.19	27.00	--	--	PASS
5925.000	-42.06	-27.00	--	--	PASS

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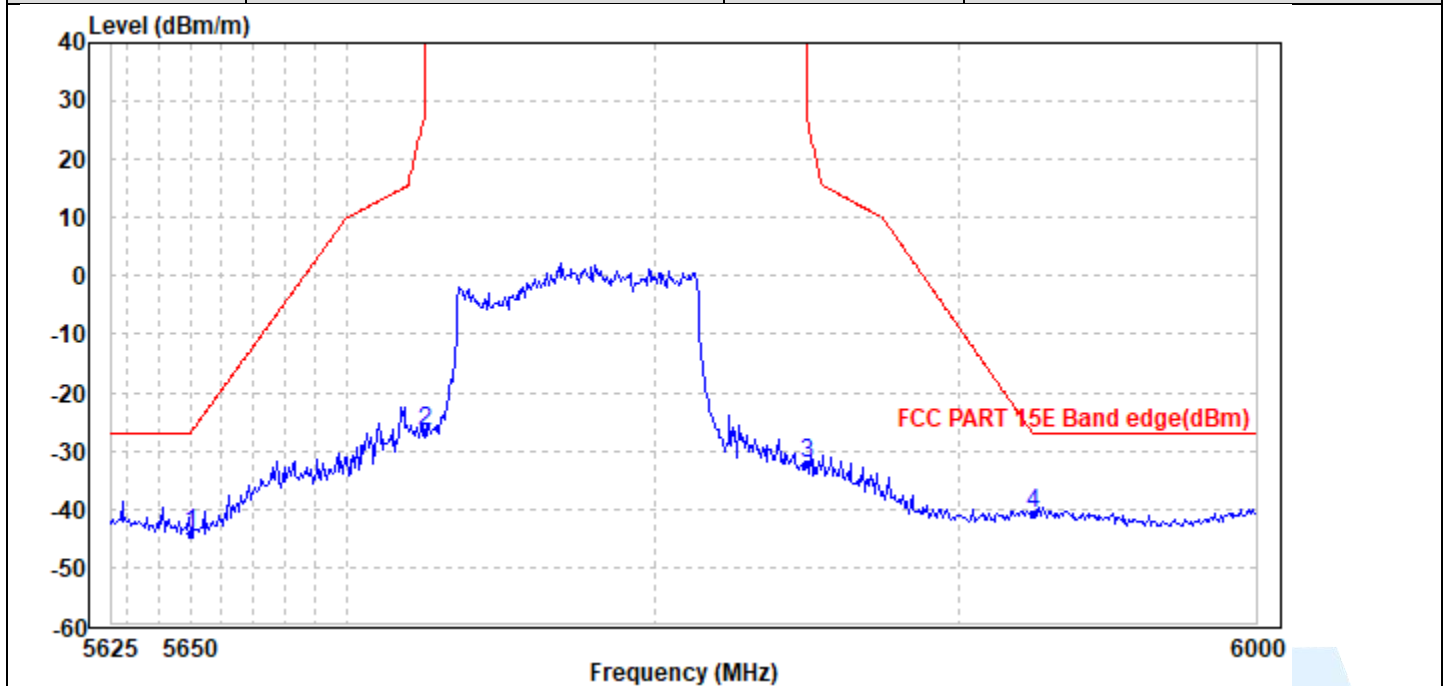
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Test Channel:	TX1TX2_5G_AX80_5775	Ant Polar:	Vertical
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Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	AV level (dBμV/m)	AV Limit (dBμV/m)	Conclusion
5650.000	-44.05	-27.00	--	--	PASS
5725.000	-26.59	27.00	--	--	PASS
5850.000	-32.12	27.00	--	--	PASS
5925.000	-40.62	-27.00	--	--	PASS

Remark:

1. Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain, the value was added to Original Receiver Reading by the software automatically.
2. Result = Reading + Correct Factor.
3. Margin = Limit - Result

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5.8 DYNAMIC FREQUENCY SELECTION

Test Requirement: FCC 47 CFR Part 15 Subpart E Section 15.407 (h)

Test Method: KDB 905462 D03 Client Without DFS New Rules v01r02

EUT Operating Mode:

DFS Operational mode	Operating Frequency Range	
	5250 MHz to 5350 MHz	5470 MHz to 5725 MHz
Slave without radar Interference detection function	✓	✓

Applicability:

The following table from KDB905462 and the lists of the applicable requirements for the DFS testing.

Applicability of DFS Requirements Prior to Use of a Channel:

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

Applicability of DFS requirements during normal operation:

Requirement	Operational Mode	
	Master Device or Client with Radar Detection	Client Without Radar Detection
DFS Detection Threshold	Yes	Not required
Channel Closing Transmission Time	Yes	Yes
Channel Move Time	Yes	Yes
U-NII Detection Bandwidth	Yes	Not required
Additional requirements for devices with multiple bandwidth modes	Master Device or Client with Radar Detection	Client Without Radar Detection
U-NII Detection Bandwidth and Statistical Performance Check	All BW modes must be tested	Not required
Channel Move Time and Channel Closing Transmission Time	Test using widest BW mode available	Test using the widest BW mode available for the link
All other tests	Any single BW mode	Not required

Note: Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.

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

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

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Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.

Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.

Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.

DFS Radar Signal Parameter Values:

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

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

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

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

DFS Radar Signal Parameter:

Radar Type 0 was used in the evaluation of the Client device for the purpose of measuring the Channel Move Time and the Channel Closing Transmission Time

Table 1-Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Trials
0	1	1428	18	See Note 1.	See Note 1.
1	1	Test A Test B	$\text{Roundup} \left\{ \left(\frac{1}{\left(\frac{360}{\text{PRI}_{\mu\text{sec}}} \right)} \right) \right\}$	60%	30
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Radar Types 1-4)				80%	120

Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.

Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a

Test B: 15 unique PRI values randomly selected within the range of 518-3066 μsec, with a minimum increment of 1 μsec, excluding PRI values selected in Test A

A minimum of 30 unique waveforms are required for each of the Short Pulse Radar Types 2 through 4. If more than 30 waveforms are used for Short Pulse Radar Types 2 through 4, then each additional waveform must also be unique and not repeated from the previous waveforms.

If more than 30 waveforms are used for Short Pulse Radar Type 1, then each additional waveform is generated with Test B and must also be unique and not repeated from the previous waveforms in Tests A or B.

The aggregate is the average of the percentage of successful detections of short pulse radar types

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1-4

Table 2-Long Pulse Radar Test Waveform

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

Table 3-Frequency Hopping Radar Test Waveform

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

In-Service Monitoring: Channel Move Time, Channel Closing Transmission Time and Non-Occupancy Period

Limit of In-Service Monitoring:

Reference to DFS Radar Signal Parameter Values.

Test Procedures:

- One frequency will be chosen from the Operating Channels of the EUT within the 5250-5350 MHz or 5470-5725 MHz bands. For 802.11 devices, the test frequency must contain control signals. This can be verified by disabling channel loading and monitoring the spectrum analyzer. If no control signals are detected, another frequency must be selected within the emission bandwidth where control signals are detected.
- In case the EUT is a Master Device, a U-NII device operating as a Client Device will be used and it is assumed that the Client will associate with the EUT (Master). For radiated tests, the emissions of the Radar Waveform generator will be directed towards the Master Device. If the Master Device has antenna gain, the main beam of the antenna will be directed toward the radar emitter. Vertical polarization is used for testing.
- The TCP protocol unicast data stream was generated by the iperf software command line with at least 17% activity ratio over any 100ms period.
- Timing plots are reported with calculations demonstrating a minimum channel loading of approximately 17% or greater. For example, channel loading can be estimated by setting the spectrum analyzer for zero span and approximate the Time On/ (Time On + Off Time).
- At time T₀ the Radar Waveform generator sends a Burst of pulses for one of the Short Pulse Radar Types 1-4 at DFS Detection Threshold levels on the Operating Channel. An additional 1 dB is added to the radar test signal to ensure it is at or above the DFS Detection Threshold, accounting for equipment variations/errors.
- Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel for duration greater than 10 seconds. Measure and record the transmissions from the EUT during the observation time (Channel Move Time). Measure and record the Channel Move Time and Channel Closing Transmission Time if radar detection occurs.
- When operating as a Master Device, monitor the EUT for more than 30 minutes following instant T₂ to verify that the EUT does not resume any transmissions on this Channel. Perform this test once and record the measurement result.

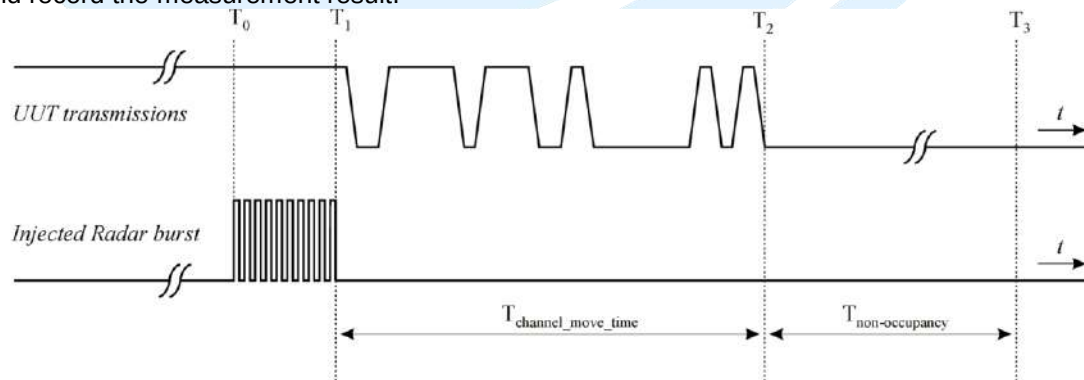
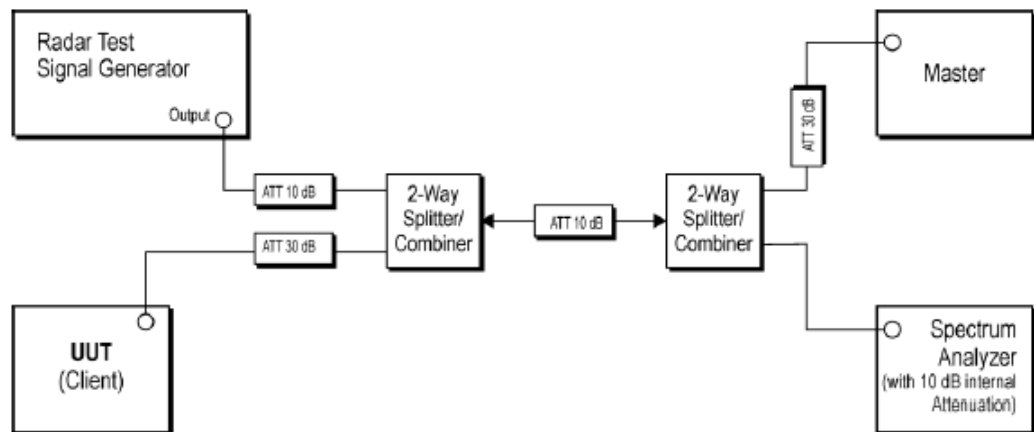


Figure 17: Channel Closing Transmission Time, Channel Move Time and Non-Occupancy Period

Conducted test setup



Setup for Client with injection at the Master

Equipment Used: Refer to section 3 for details.

Test Result: Result of Channel Move Time, Channel Closing Transmission Time and Non-Occupancy Period for Client Beacon Test

Please refer to Appendix A

5.9 AC POWER LINE CONDUCTED EMISSION

Test Requirement: FCC 47 CFR Part 15 Subpart C Section 15.207

Test Method: ANSI C63.10-2020 Section 6.2

Limits:

Frequency range (MHz)	Limits (dB(μV))	
	Quasi-peak	Average
0,15 to 0,50	66 to 56	56 to 46
0,50 to 5	56	46
5 to 30	60	50

Remark:

1. The lower limit shall apply at the transition frequencies.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 to 0.50 MHz.

Test Setup: Refer to section 4.4.2 for details.

Test Procedures:

Test frequency range :150KHz-30MHz

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a $50\Omega/50\mu\text{H} + 5\Omega$ linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Equipment Used: Refer to section 3 for details.

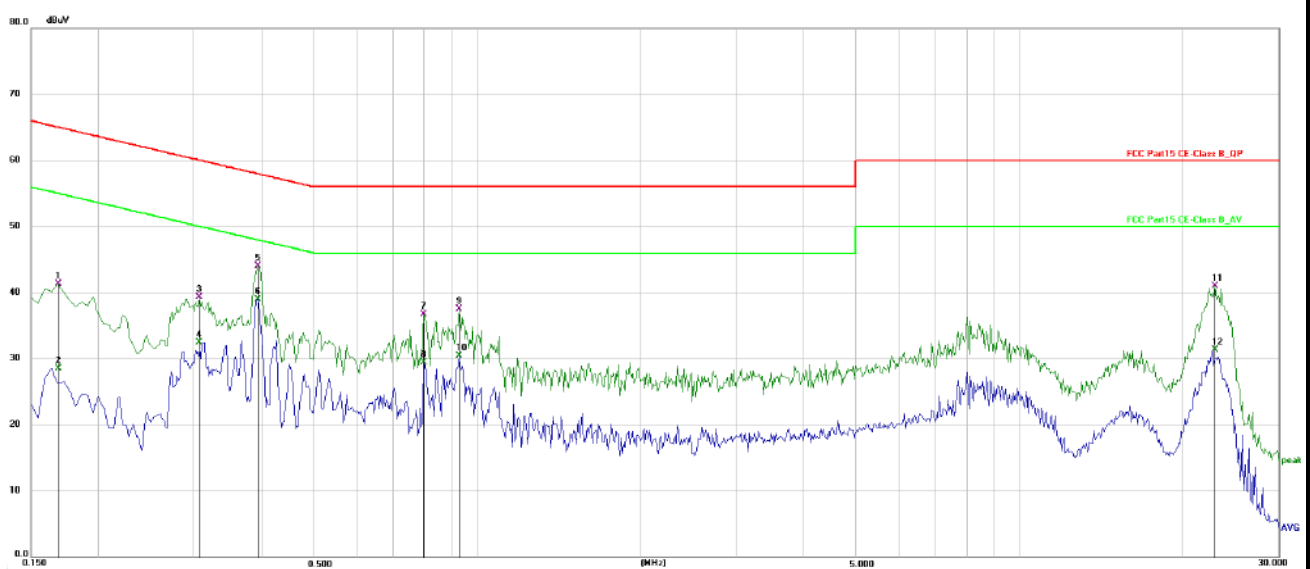
Test Result: Pass

The worst measurement data as follows:

Quasi Peak and Average:

Mode: WIFI Link

Live Line



No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1680	31.07	10.28	41.35	65.06	-23.71	QP
2	0.1680	18.29	10.28	28.57	55.06	-26.49	AVG
3	0.3064	29.08	10.25	39.33	60.07	-20.74	QP
4	0.3064	22.21	10.25	32.46	50.07	-17.61	AVG
5	0.3930	33.84	10.22	44.06	58.00	-13.94	QP
6	0.3930	28.73	10.22	38.95	48.00	-9.05	AVG
7	0.7980	26.61	10.18	36.79	56.00	-19.21	QP
8	0.7980	19.29	10.18	29.47	46.00	-16.53	AVG
9	0.9240	27.40	10.17	37.57	56.00	-18.43	QP
10	0.9240	20.24	10.17	30.41	46.00	-15.59	AVG
11	22.9740	30.99	10.00	40.99	60.00	-19.01	QP
12	22.9740	21.37	10.00	31.37	50.00	-18.63	AVG

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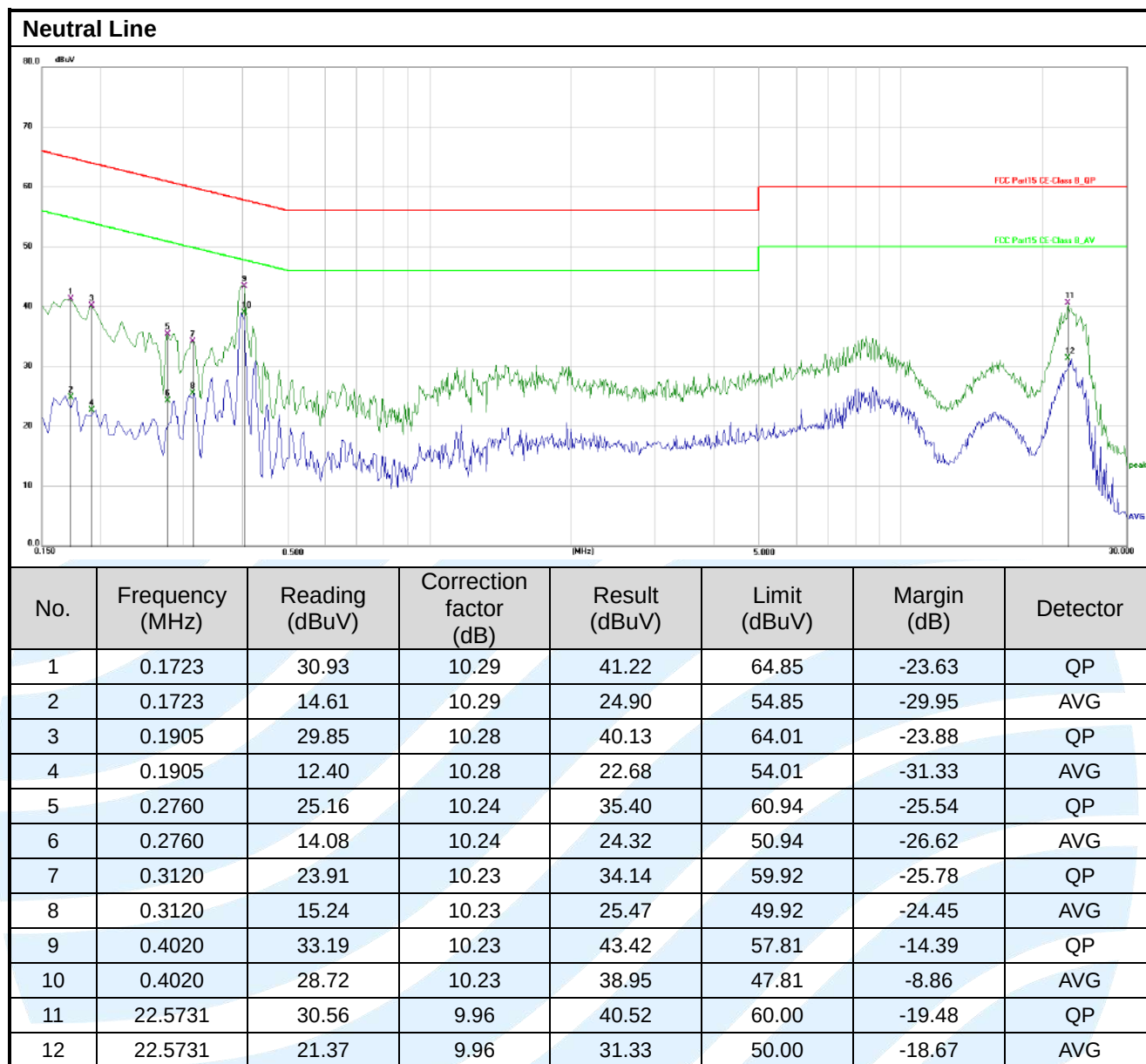
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Remark:

1. Correct Factor = LISN Factor + Cable Loss + Pulse Limiter Factor, the value was added to Original Receiver Reading by the software automatically.
2. Result = Reading + Correct Factor.
3. Margin = Result - Limit
4. An initial pre-scan was performed on the Phase and neutral lines with peak detector. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

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APPENDIX A RF TEST DATA

A.1 99% & 26DB BANDWIDTH

For U-NII-1, U-NII-2A and U-NII-2C Band:

Test Mode	Antenna	Frequency[MHz]	26db EBW [MHz]
11A	Ant1	5180	21.82
11A	Ant2	5180	22.74
11A	Ant1	5200	21.53
11A	Ant2	5200	22.54
11A	Ant1	5240	21.24
11A	Ant2	5240	22.30
11A	Ant1	5260	22.51
11A	Ant2	5260	21.68
11A	Ant1	5280	30.10
11A	Ant2	5280	20.55
11A	Ant1	5320	23.09
11A	Ant2	5320	19.90
11A	Ant1	5500	23.82
11A	Ant2	5500	34.01
11A	Ant1	5580	23.96
11A	Ant2	5580	32.30
11A	Ant1	5700	27.25
11A	Ant2	5700	30.40
11A	Ant1	5720	25.120
11A	Ant2	5720	32.000
11A	Ant1	5720 UNII-2C	19.64
11A	Ant2	5720 UNII-2C	20.96
11A	Ant1	5720 UNII-3	5.48
11A	Ant2	5720 UNII-3	11.04
11N20MIMO	Ant1	5180	21.60
11N20MIMO	Ant2	5180	21.07
11N20MIMO	Ant1	5200	21.32
11N20MIMO	Ant2	5200	21.71
11N20MIMO	Ant1	5240	21.33
11N20MIMO	Ant2	5240	22.15
11N20MIMO	Ant1	5260	22.01
11N20MIMO	Ant2	5260	21.32
11N20MIMO	Ant1	5280	21.66
11N20MIMO	Ant2	5280	21.55
11N20MIMO	Ant1	5320	21.56
11N20MIMO	Ant2	5320	22.07
11N20MIMO	Ant1	5500	22.18
11N20MIMO	Ant2	5500	21.61
11N20MIMO	Ant1	5580	21.76
11N20MIMO	Ant2	5580	22.02
11N20MIMO	Ant1	5700	21.70
11N20MIMO	Ant2	5700	21.97
11N20MIMO	Ant1	5720	21.160
11N20MIMO	Ant2	5720	21.040
11N20MIMO	Ant1	5720 UNII-2C	15.52
11N20MIMO	Ant2	5720 UNII-2C	15.68
11N20MIMO	Ant1	5720 UNII-3	5.64
11N20MIMO	Ant2	5720 UNII-3	5.36
11N40MIMO	Ant1	5190	42.41
11N40MIMO	Ant2	5190	42.40
11N40MIMO	Ant1	5230	42.91
11N40MIMO	Ant2	5230	43.02
11N40MIMO	Ant1	5270	42.44
11N40MIMO	Ant2	5270	41.85
11N40MIMO	Ant1	5310	42.16
11N40MIMO	Ant2	5310	42.60
11N40MIMO	Ant1	5510	70.50
11N40MIMO	Ant2	5510	51.18

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11N40MIMO	Ant1	5550	58.98
11N40MIMO	Ant2	5550	55.45
11N40MIMO	Ant1	5670	75.55
11N40MIMO	Ant2	5670	42.23
11N40MIMO	Ant1	5710	60.400
11N40MIMO	Ant2	5710	41.040
11N40MIMO	Ant1	5710 UNII-2C	51.4
11N40MIMO	Ant2	5710 UNII-2C	35.72
11N40MIMO	Ant1	5710 UNII-3	9
11N40MIMO	Ant2	5710 UNII-3	5.32
11AC20MIMO	Ant1	5180	21.49
11AC20MIMO	Ant2	5180	21.75
11AC20MIMO	Ant1	5200	25.80
11AC20MIMO	Ant2	5200	21.29
11AC20MIMO	Ant1	5240	21.78
11AC20MIMO	Ant2	5240	21.16
11AC20MIMO	Ant1	5260	21.46
11AC20MIMO	Ant2	5260	20.99
11AC20MIMO	Ant1	5280	21.19
11AC20MIMO	Ant2	5280	21.23
11AC20MIMO	Ant1	5320	21.34
11AC20MIMO	Ant2	5320	21.01
11AC20MIMO	Ant1	5500	21.84
11AC20MIMO	Ant2	5500	20.89
11AC20MIMO	Ant1	5580	21.62
11AC20MIMO	Ant2	5580	21.85
11AC20MIMO	Ant1	5700	21.73
11AC20MIMO	Ant2	5700	21.40
11AC20MIMO	Ant1	5720	21.600
11AC20MIMO	Ant2	5720	21.800
11AC20MIMO	Ant1	5720 UNII-2C	15.88
11AC20MIMO	Ant2	5720 UNII-2C	15.68
11AC20MIMO	Ant1	5720 UNII-3	5.72
11AC20MIMO	Ant2	5720 UNII-3	6.12
11AC40MIMO	Ant1	5190	42.84
11AC40MIMO	Ant2	5190	41.12
11AC40MIMO	Ant1	5230	41.87
11AC40MIMO	Ant2	5230	44.74
11AC40MIMO	Ant1	5270	42.85
11AC40MIMO	Ant2	5270	42.11
11AC40MIMO	Ant1	5310	42.55
11AC40MIMO	Ant2	5310	42.07
11AC40MIMO	Ant1	5510	68.75
11AC40MIMO	Ant2	5510	41.52
11AC40MIMO	Ant1	5550	69.59
11AC40MIMO	Ant2	5550	41.55
11AC40MIMO	Ant1	5670	53.04
11AC40MIMO	Ant2	5670	40.96
11AC40MIMO	Ant1	5710	63.760
11AC40MIMO	Ant2	5710	41.520
11AC40MIMO	Ant1	5710 UNII-2C	52.68
11AC40MIMO	Ant2	5710 UNII-2C	35.32
11AC40MIMO	Ant1	5710 UNII-3	11.08
11AC40MIMO	Ant2	5710 UNII-3	6.2
11AC80MIMO	Ant1	5210	93.32
11AC80MIMO	Ant2	5210	83.62
11AC80MIMO	Ant1	5290	86.10
11AC80MIMO	Ant2	5290	83.54
11AC80MIMO	Ant1	5530	156.8
11AC80MIMO	Ant2	5530	109.7
11AC80MIMO	Ant1	5610	154.7
11AC80MIMO	Ant2	5610	101.6
11AC80MIMO	Ant1	5690	159.520

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11AC80MIMO	Ant2	5690	105.920
11AC80MIMO	Ant1	5690 UNII-2C	114.68
11AC80MIMO	Ant2	5690 UNII-2C	75.48
11AC80MIMO	Ant1	5690 UNII-3	44.84
11AC80MIMO	Ant2	5690 UNII-3	30.44
11AX20MIMO	Ant1	5180	22.11
11AX20MIMO	Ant2	5180	21.73
11AX20MIMO	Ant1	5200	21.70
11AX20MIMO	Ant2	5200	21.46
11AX20MIMO	Ant1	5240	21.08
11AX20MIMO	Ant2	5240	23.04
11AX20MIMO	Ant1	5260	21.75
11AX20MIMO	Ant2	5260	21.41
11AX20MIMO	Ant1	5280	21.52
11AX20MIMO	Ant2	5280	21.64
11AX20MIMO	Ant1	5320	22.36
11AX20MIMO	Ant2	5320	21.56
11AX20MIMO	Ant1	5500	22.66
11AX20MIMO	Ant2	5500	20.80
11AX20MIMO	Ant1	5580	22.04
11AX20MIMO	Ant2	5580	21.79
11AX20MIMO	Ant1	5700	21.53
11AX20MIMO	Ant2	5700	21.71
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11AX20MIMO	Ant1	5720 UNII-2C	15.68
11AX20MIMO	Ant2	5720 UNII-2C	15.88
11AX20MIMO	Ant1	5720 UNII-3	5.72
11AX20MIMO	Ant2	5720 UNII-3	5.92
11AX40MIMO	Ant1	5190	43.21
11AX40MIMO	Ant2	5190	41.35
11AX40MIMO	Ant1	5230	43.04
11AX40MIMO	Ant2	5230	41.74
11AX40MIMO	Ant1	5270	42.94
11AX40MIMO	Ant2	5270	41.29
11AX40MIMO	Ant1	5310	41.96
11AX40MIMO	Ant2	5310	42.12
11AX40MIMO	Ant1	5510	57.67
11AX40MIMO	Ant2	5510	41.21
11AX40MIMO	Ant1	5550	55.70
11AX40MIMO	Ant2	5550	41.29
11AX40MIMO	Ant1	5670	46.03
11AX40MIMO	Ant2	5670	42.42
11AX40MIMO	Ant1	5710	55.600
11AX40MIMO	Ant2	5710	42.640
11AX40MIMO	Ant1	5710 UNII-2C	46.68
11AX40MIMO	Ant2	5710 UNII-2C	36.28
11AX40MIMO	Ant1	5710 UNII-3	8.92
11AX40MIMO	Ant2	5710 UNII-3	6.36
11AX80MIMO	Ant1	5210	81.85
11AX80MIMO	Ant2	5210	79.93
11AX80MIMO	Ant1	5290	82.00
11AX80MIMO	Ant2	5290	81.36
11AX80MIMO	Ant1	5530	94.10
11AX80MIMO	Ant2	5530	98.81
11AX80MIMO	Ant1	5610	141.2
11AX80MIMO	Ant2	5610	82.00
11AX80MIMO	Ant1	5690	149.760
11AX80MIMO	Ant2	5690	124.960
11AX80MIMO	Ant1	5690 UNII-2C	112.76
11AX80MIMO	Ant2	5690 UNII-2C	102.84
11AX80MIMO	Ant1	5690 UNII-3	37
11AX80MIMO	Ant2	5690 UNII-3	22.12

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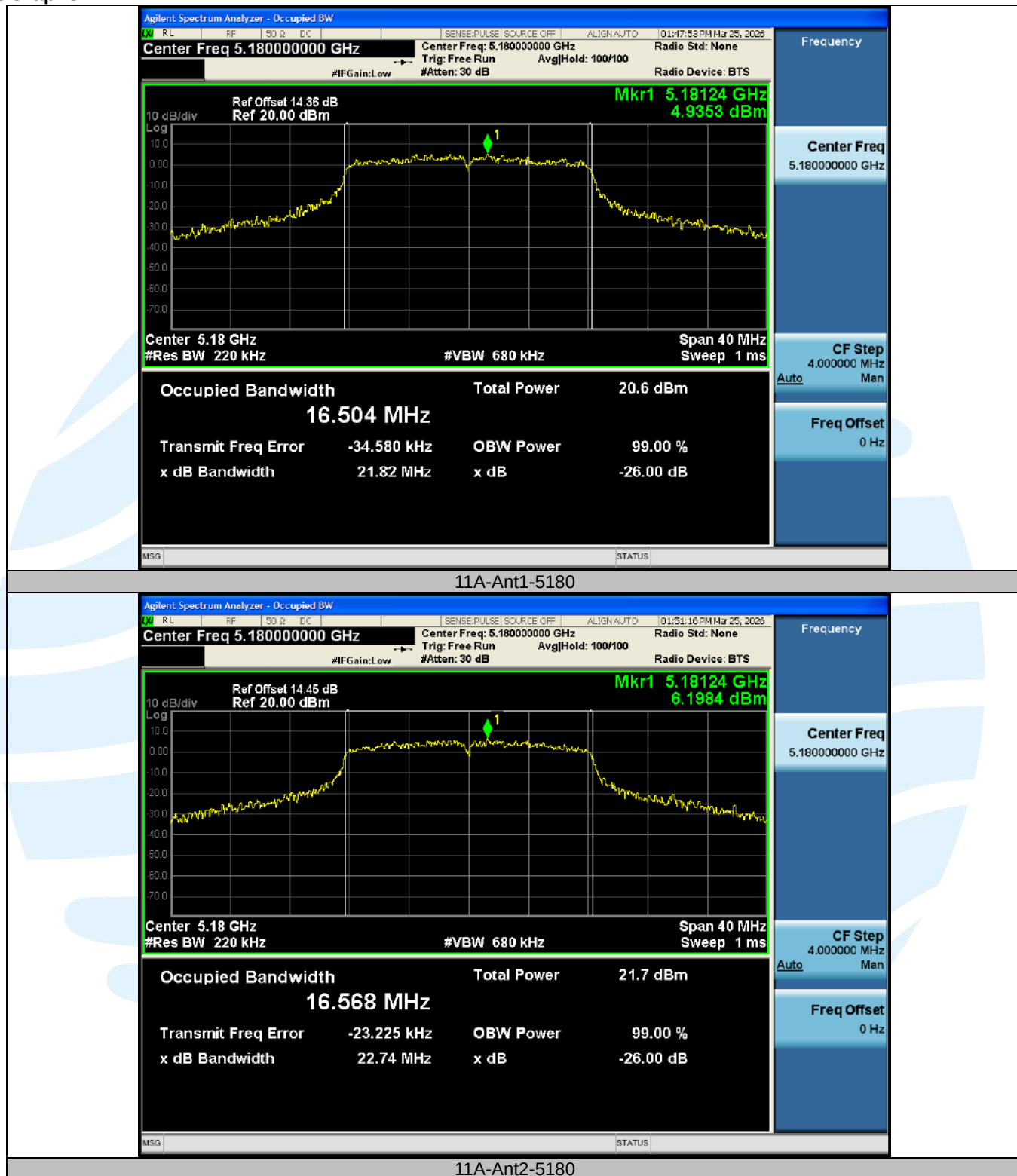
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Test Graphs



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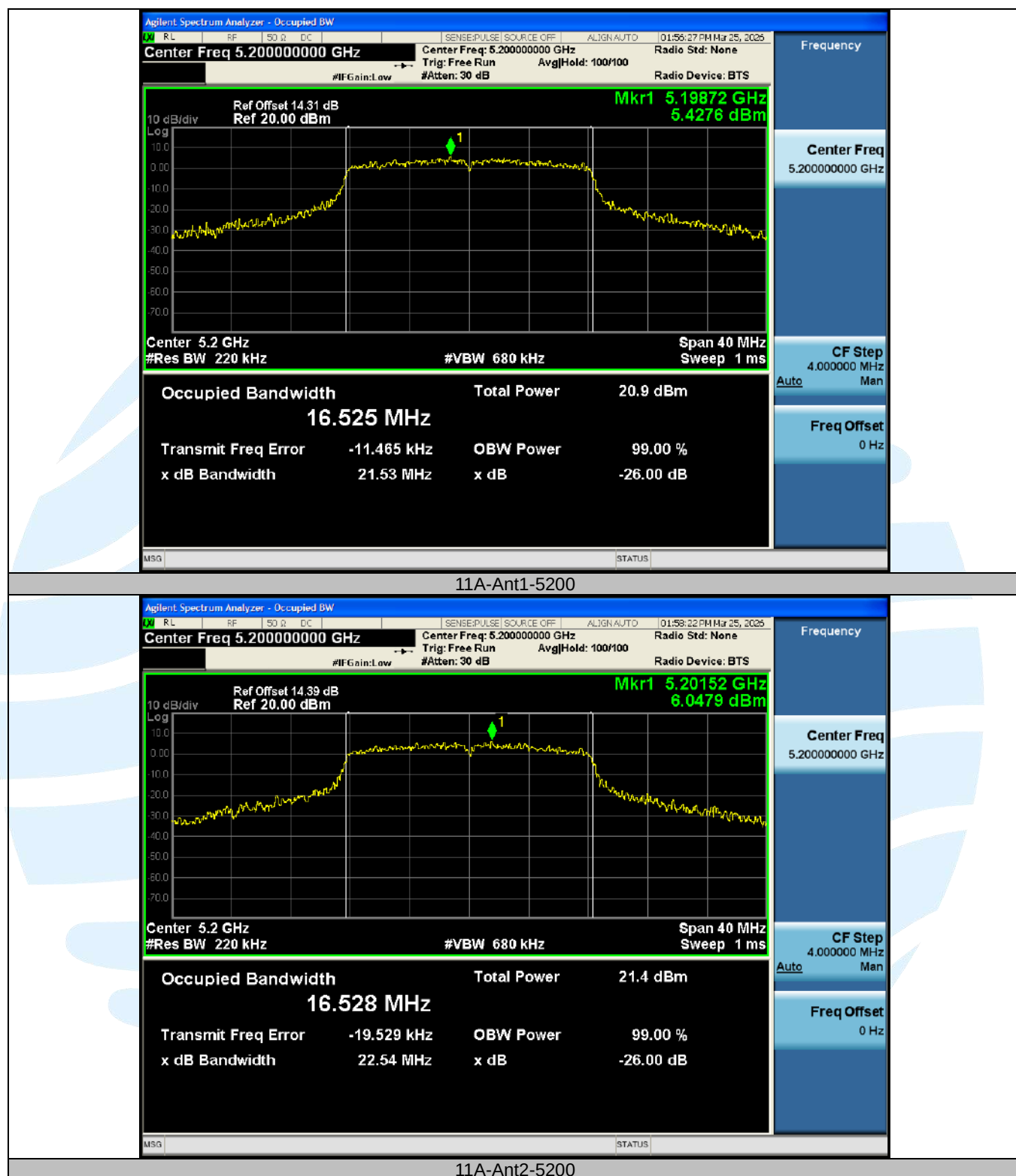
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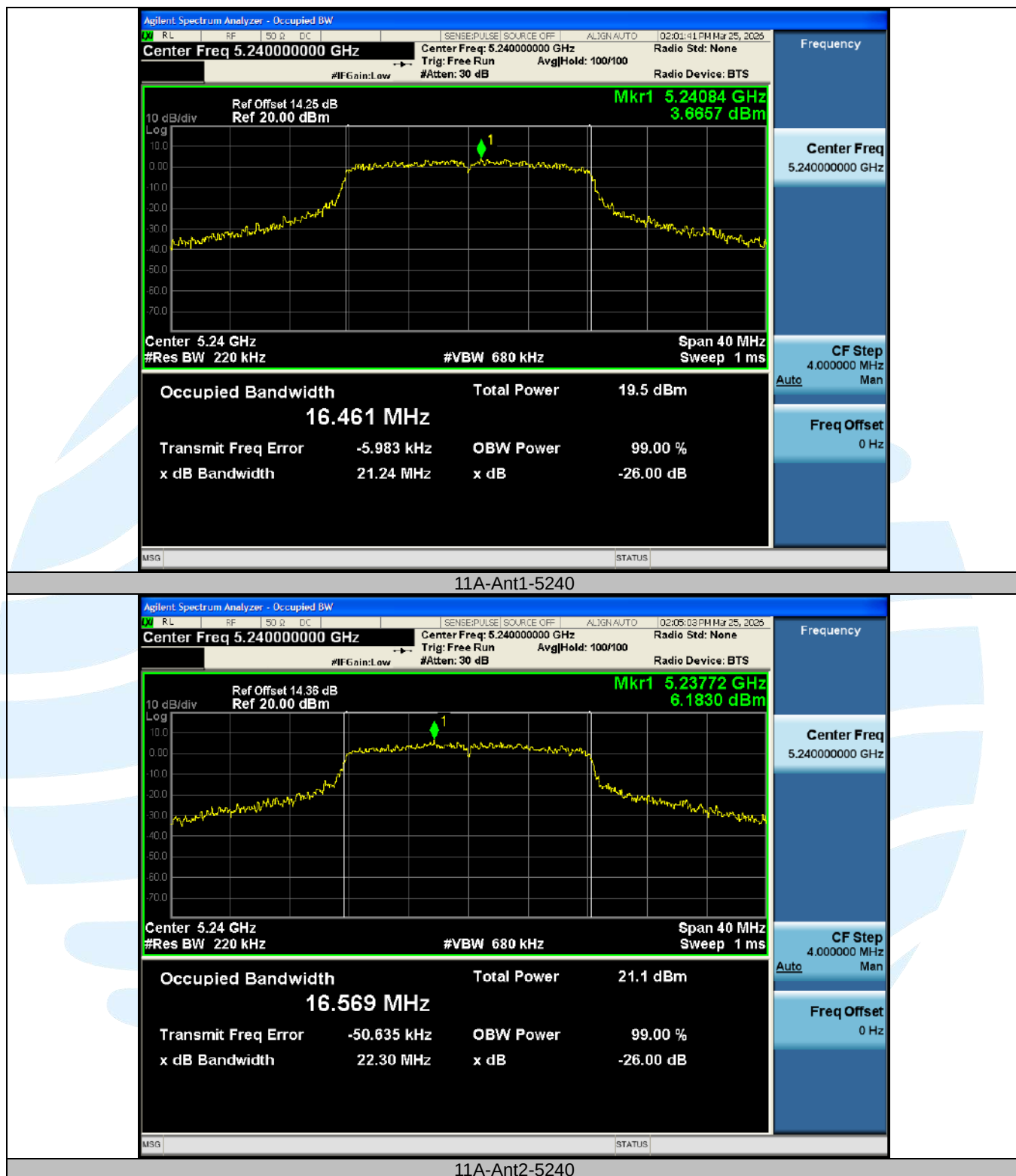
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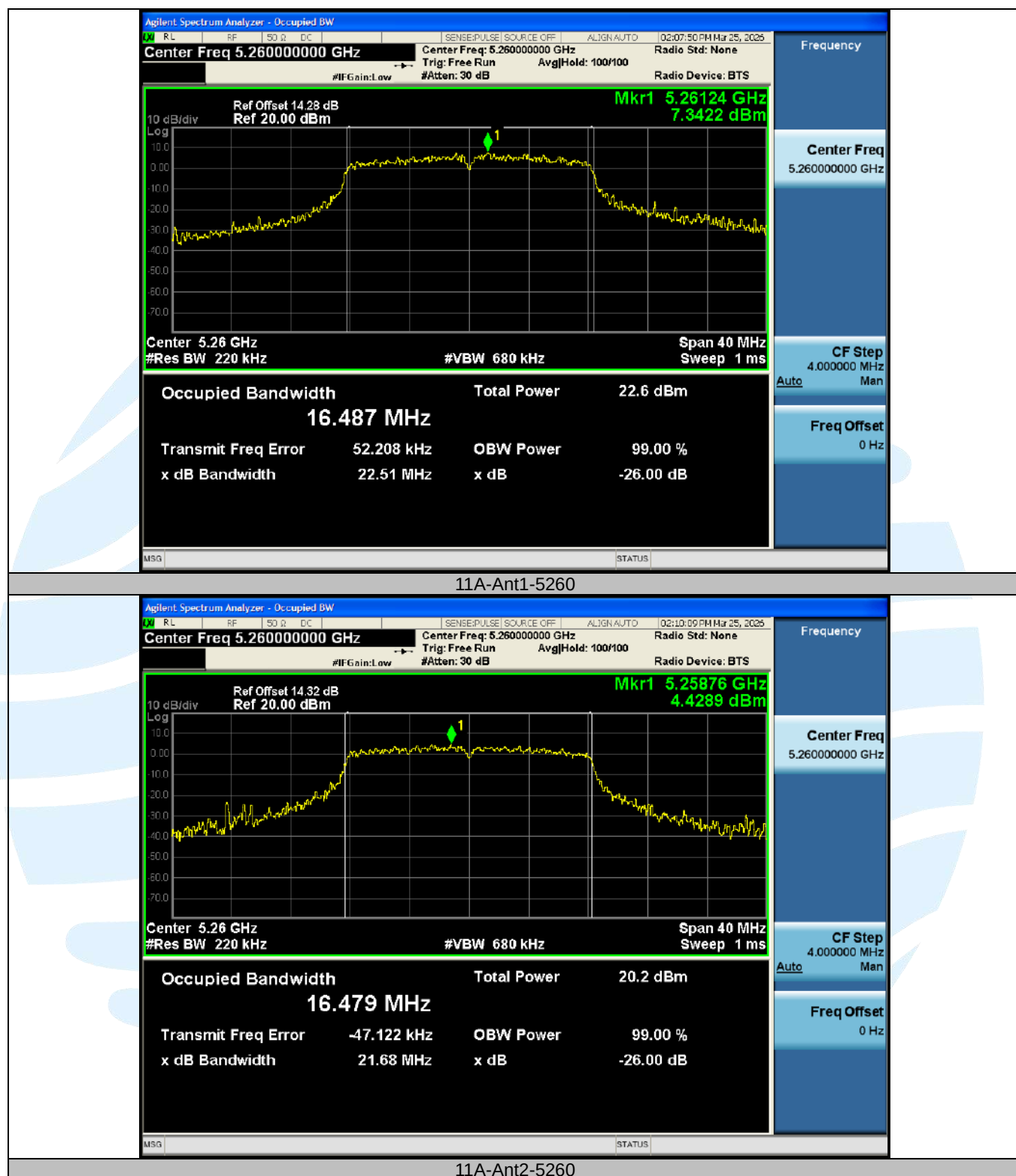
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