

TEST REPORT



Certificate #4312.01

Product Name / PMN: Countertop Payment Terminal**Trade Mark:** PAX**Model No.:** A80**HVIN:** A80SBWN**Report Number:** 26062925733RFC-4**Test Standards:** FCC 47 CFR Part 15 Subpart E

RSS-247 Issue 4

RSS-Gen Issue 6

FCC ID: V5PA80SBWN**IC:** 11689A-A80SBWN**Test Result:** PASS**Date of Issue:** October 10, 2026

Prepared for:

PAX Technology Limited**FLAT/RM 2504, 25/F, SUN HUNG KAI CENTRE, 30 HARBOUR ROAD,
WANCHAI, HK, China**

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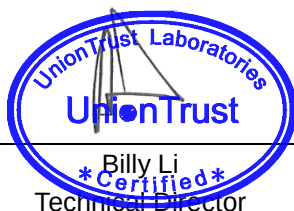
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October 10, 2026

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Version

Version No.	Date	Description
V1.0	October 10, 2026	Original



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1. GENERAL INFORMATION

1.1 CLIENT INFORMATION

Applicant:	PAX Technology Limited
Address of Applicant:	FLAT/RM 2504, 25/F, SUN HUNG KAI CENTRE, 30 HARBOUR ROAD, WANCHAI, HK, China
Manufacturer:	PAX Computer Technology (Shenzhen) Co., Ltd.
Address of Manufacturer:	Room 701, PAX Technology Building, Shanxia Community, Pinghu Sub-district, Longgang District, Shenzhen, China

1.2 EUT INFORMATION

1.2.1 General Description of EUT

Product Name / PMN:	Countertop Payment Terminal		
Model No.:	A80		
HVIN:	A80SBWN		
Trade Mark:	PAX		
DUT Stage:	Identical Prototype		
EUT Supports Function: (Provided by the customer)	2.4 GHz ISM Band:	Bluetooth V5.3	
		IEEE 802.11b/g/n/ax	
	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
	NFC:	13.553 MHz to 13.567 MHz	
Sample Received Date:	June 26, 2026		
Sample Tested Date:	July 10, 2026 to August 21, 2026		

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 Access

Refer to Report 26062925733EMC-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: OFDM(64QAM, 16QAM, QPSK, BPSK)
	IEEE 802.11n: OFDM(64QAM, 16QAM, QPSK, BPSK)
	IEEE 802.11ac: OFDM(256QAM, 64QAM, 16QAM, QPSK, BPSK)

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	IEEE 802.11ax: OFDM /OFDMA (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-HT20: Up to MCS7				
	IEEE 802.11n-HT40: Up to MCS7				
	IEEE 802.11ac-VHT20: Up to MCS8				
	IEEE 802.11ac-VHT40: Up to MCS9				
	IEEE 802.11ac-VHT80: Up to MCS9				
	IEEE 802.11ax-HE20/HE40/HE80: Up to MCS11				
Number of Channels:	5150 MHz to 5250 MHz: 4 for IEEE 802.11a/n-HT20/ac-VHT20/ax-HE20 2 for IEEE 802.11n-HT40/ac-VHT40/ax-HE40 1 for 802.11ac-VHT80/ax-HE80				
	5250 MHz to 5350 MHz: 4 for IEEE 802.11a/n-HT20/ac-VHT20/ax-HE20 2 for IEEE 802.11n-HT40/ac-VHT40/ax-HE40 1 for 802.11ac-VHT80/ax-HE80				
	5470 MHz to 5725 MHz: 12 for IEEE 802.11a/n-HT20/ac-VHT20/ax-HE20 6 for IEEE 802.11n-HT40/ac-VHT40/ax-HE40 3 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 802.11ac-VHT80/ax-HE80				
Antenna Type:	PIFA Antenna				
Antenna Gain: (Provided by the customer)	5150 MHz to 5250 MHz: 3.28 dBi				
	5250 MHz to 5350 MHz: 2.73 dBi				
	5470 MHz to 5725 MHz: 4.08 dBi				
	5725 MHz to 5850 MHz: 4.26 dBi				
Maximum conducted output power (dBm):		U-NII-1	U-NII-2A	U-NII-2C	U-NII-3
	IEEE 802.11a:	15.97	15.91	15.14	13.21
	IEEE 802.11n-HT20:	14.74	14.67	14.65	13.18
	IEEE 802.11n-HT40:	12.99	13.01	13.94	13.50
	IEEE 802.11ac-VHT20	12.25	12.01	12.34	12.13
	IEEE 802.11ac-VHT40	11.23	11.05	11.51	11.38
	IEEE 802.11ac-VHT80	9.51	10.06	10.48	10.61
	IEEE 802.11ax-HE20	12.61	11.98	12.67	12.45
	IEEE 802.11ax-HE40	11.67	11.62	11.47	11.36
Maximum EIRP (dBm):		U-NII-1	U-NII-2A	U-NII-2C	U-NII-3
	IEEE 802.11a:	19.25	18.64	19.22	17.47
	IEEE 802.11n-HT20:	18.02	17.40	18.73	17.44
	IEEE 802.11n-HT40:	16.27	15.74	18.02	17.76
	IEEE 802.11ac-VHT20	15.53	14.74	16.42	16.39
	IEEE 802.11ac-VHT40	14.51	13.78	15.59	15.64

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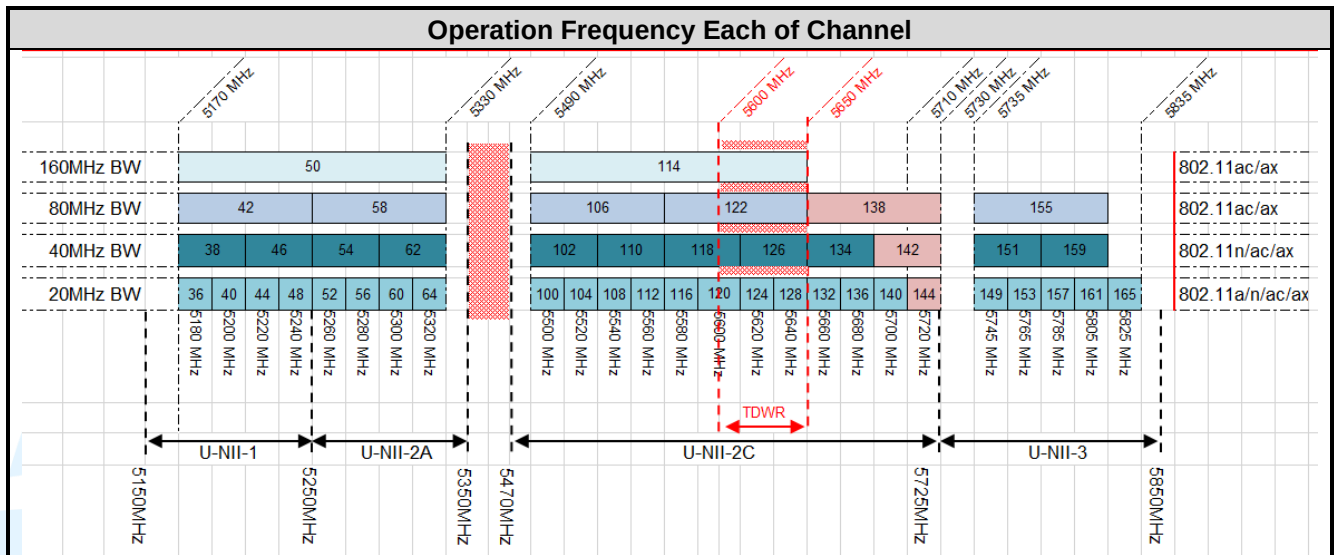
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	IEEE 802.11ac-VHT80	12.79	12.79	14.56	14.87
	IEEE 802.11ax-HE20	15.89	14.71	16.75	16.71
	IEEE 802.11ax-HE40	14.95	14.35	15.55	15.62
	IEEE 802.11ax-HE80	12.95	12.96	14.74	14.61
Normal Test Voltage:		7.4Vdc			

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
Notebook	DELL	Latitude 3400	16238087894	N/A	Notebook
Mouse	DELL	MS111	CN-011D3V-738	N/A	UnionTrust
Wireless Home Router	SAGEMCOM	FAST5280	253703944	VW3FAST5280	UnionTrust
Key-Press Attenuator	Huaxin	KT2.5-90/1S-2S	UTTL-EN023	N/A	UnionTrust
4 Way Divider	WOKEN	0120A040560002D	UTTL-EN028	N/A	UnionTrust

2) Support Cable

Cable No.	Description	Connector	Length	Supplied by
1	Antenna Cable	SMA	0.1Meter	Applicant

1.6 TEST LOCATION

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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 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	±3.1 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

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) RSS-Gen Issue 6, Section 5.2 RSS-247 Issue 4 Section 7.3.4.3	N/A	PASS
26 dB emission bandwidth	FCC 47 CFR Part 15 Subpart E Section 15.407 (a)(2)(5) RSS-247 Issue 4 Section 7.3.1.3	KDB 789033 D02 v02r01 Section C.1	PASS
6 dB bandwidth	FCC 47 CFR Part 15 Subpart E Section 15.407 (e) RSS-247 Issue 4 Section 7.3.4.2	KDB 789033 D02 v02r01 Section C.2	PASS
Occupied Bandwidth	RSS-Gen Issue 6, section 5.1	KDB 789033 D02 v02r01 Section II.D	PASS
Maximum conducted output power	FCC 47 CFR Part 15 Subpart E Section 15.407 (a)(1)(2)(3) RSS-247 Issue 4 Section 7.3.1.2 / 7.3.2.2/7.3.3.2/7.3.4.3	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) RSS-247 Issue 4 Section 7.3.1.2 / 7.3.2.2/7.3.3.2/7.3.4.3	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 RSS-247 Issue 4 Section 7.3/ 7.3.1.3 /7.3.2.3/7.3.2.3 /7.3.4.4 RSS-Gen Issue 6, Section 5.5, 6.2	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) RSS-247 Issue 4 Section 7.3.6	KDB 905462 D03 Client Without DFS New Rules v01r02	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 RSS-Gen Issue 6, Section 6.2	ANSI C63.10-2020 + COR. 1-2023 + C63.10A-2024 + ERRATA TO C63.10A-2024, Section 6.2.	PASS
Duty Cycle	N/A	KDB 789033 D02 v02r01 Section II.B.1	None; for reporting purposes only.
Note: 1) N/A: In this whole report not applicable.			
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.			

For Dynamic Frequency Selection

Test Case	Result
Channel Availability Check Time	N/A ¹
U-NII Detection Bandwidth	N/A ¹
Channel Closing Transmission Time	PASS
Channel Move Time	PASS
DFS Detection Threshold	N/A ¹
Non- Occupancy Period	N/A ¹
Note: 1) The EUT is slave, NA In this whole report not applicable.	

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	20-Mar-2026	19-Mar-2027
☒	Loop Antenna	ETS-LINDGREN	6502	00202525	26-Oct-2025	25-Oct-2026
☒	Broadband Antenna	ETS-LINDGREN	3142E	00201566	26-Oct-2025	25-Oct-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	21-Mar-2026	20-Mar-2027
☒	Pre-amplifier	ETS-Lindgren	00118385	00201874	21-Mar-2026	20-Mar-2027
☒	Multi device Controller	ETS-LINDGREN	7006-001	00160105	N/A	N/A
☒	Band Rejection Filter (5150MHz~5880MHz)	Micro-Tronics	BRM50716	G186	24-Oct-2025	23-Oct-2026
☒	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	ESCI3	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
☒	Shielding room	ETS-Lindgren	843	Euroshiedpn-CT001270-1246	25-Oct-2024	24-Oct-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	20-Mar-2026	19-Mar-2027
☒	USB Wideband Power Sensor	KEYSIGHT	U2021XA	MY55430035	24-Oct-2025	23-Oct-2026
☐	MXG X-Series RF Vector Signal Generator	KEYSIGHT	N5182B	MY51350267	24-Oct-2025	23-Oct-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	7.4	20 to 75
Remark: 1) NV: Normal Voltage; NT: Normal Temperature			

4.1.2 Record of Normal Environment and Test Sample

Test Item	Temperature (°C)	Relative Humidity (%)	Pressure (kPa)	Sample No.	Tested by
26 dB emission bandwidth	25.7	62.2	99.5	S202606269030-ZJA09/16	Alan Jia
6 dB bandwidth					
Occupied Bandwidth					
Maximum conducted output power					
Peak Power Spectral Density					
Dynamic Frequency Selection					
Radiated Emissions and Band Edge Measurement	23.8	62.4	99.3	S202606269030-ZJA07/16	Leo Li
AC Power Line Conducted Emission	22.4	51.8	99.1	S202606269030-ZJA08/16	Shirley Wu

4.2 TEST CHANNELS

Mode	Tx/Rx Frequency	Test RF Channel Lists			
		Lowest(L)	Middle(M)	Highest(H)	Straddle band
IEEE 802.11a IEEE 802.11n-HT20 IEEE 802.11ac-VHT20 IEEE 802.11ax-HE20	5150 MHz to 5250 MHz	Channel 36	Channel 40	Channel 48	--
		5180 MHz	5200 MHz	5240 MHz	--
	5250 MHz to 5350 MHz	Channel 52	Channel 56	Channel 64	--
		5260 MHz	5280 MHz	5320 MHz	--
	5470 MHz to 5725 MHz	Channel 100	Channel 120	Channel 140	Channel 144
		5500 MHz	5600 MHz	5700 MHz	5720 MHz
	5725 MHz to 5850 MHz	Channel 149	Channel 157	Channel 165	--
		5745 MHz	5785 MHz	5825 MHz	--
IEEE 802.11n-HT40 IEEE 802.11ac-VHT40 IEEE 802.11ax-HE40	5150 MHz to 5250 MHz	Channel 38	--	Channel 46	--
		5190 MHz	--	5230 MHz	--
	5250 MHz to 5350 MHz	Channel 54	--	Channel 62	--
		5270 MHz	--	5310 MHz	--
	5470 MHz to 5725 MHz	Channel 102	Channel 118	Channel 134	Channel 142
		5510 MHz	5590 MHz	5670 MHz	5710 MHz
	5725 MHz to 5850 MHz	Channel 151	--	Channel 159	--
		5755 MHz	--	5795 MHz	--

Mode	Tx/Rx Frequency	Test RF Channel Lists		
		Lowest(L)	Middle(M)	Highest(H) Straddle band
IEEE 802.11ac-VHT80 IEEE 802.11ax-HE80	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	5690 MHz
	5725 - 5850 MHz	--	Channel 155	--
		--	5775 MHz	--

4.3 EUT TEST STATUS

Mode	Tx/Rx Function	Description
IEEE 802.11a/n/ac/ax	1Tx/1Rx	1. Keep the EUT in transmitting mode with all kind of modulation and all kind of data rate.

Test Software
Test software name: 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	MCS0
IEEE 802.11n-HT40	MCS0
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

* Note:

Pre-Scan has been conducted to determine the worst-case mode from all RU allocations combinations. The RF test data in Appendix A below only shows the worst case.

4.5 TEST SETUP

4.5.1 For Radiated Emissions test setup

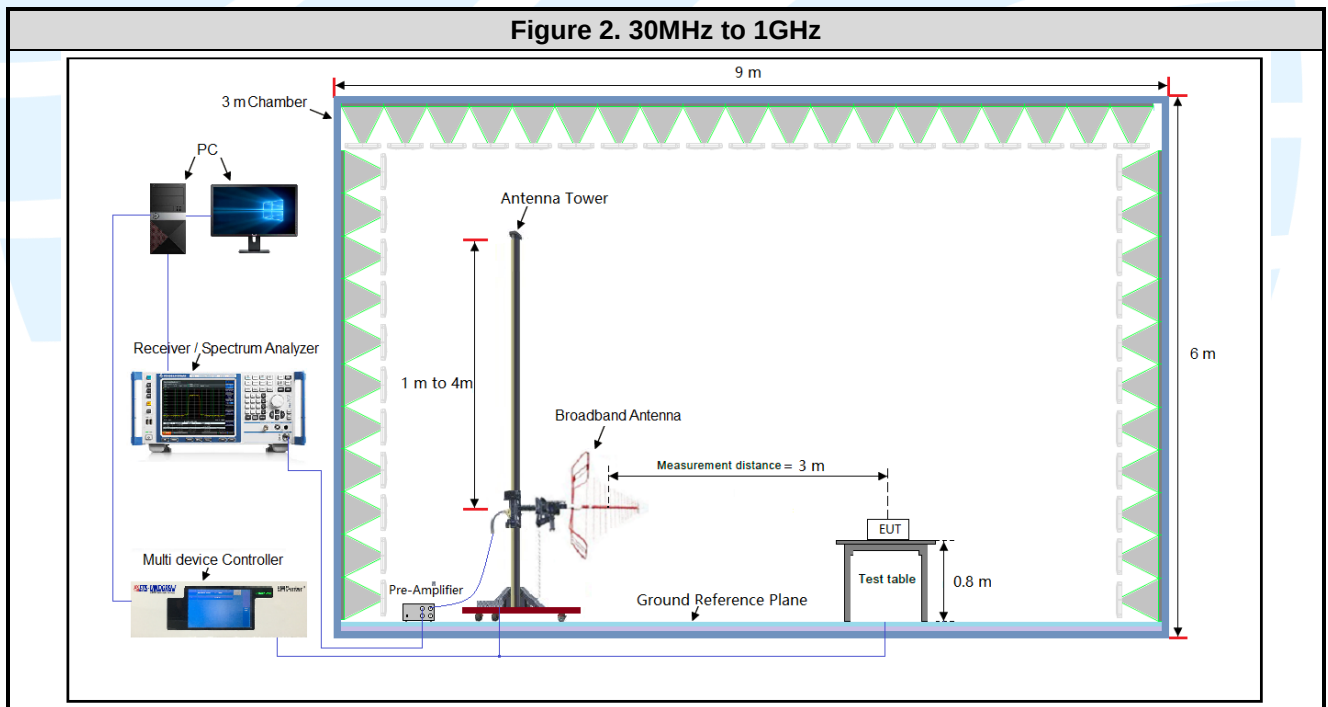
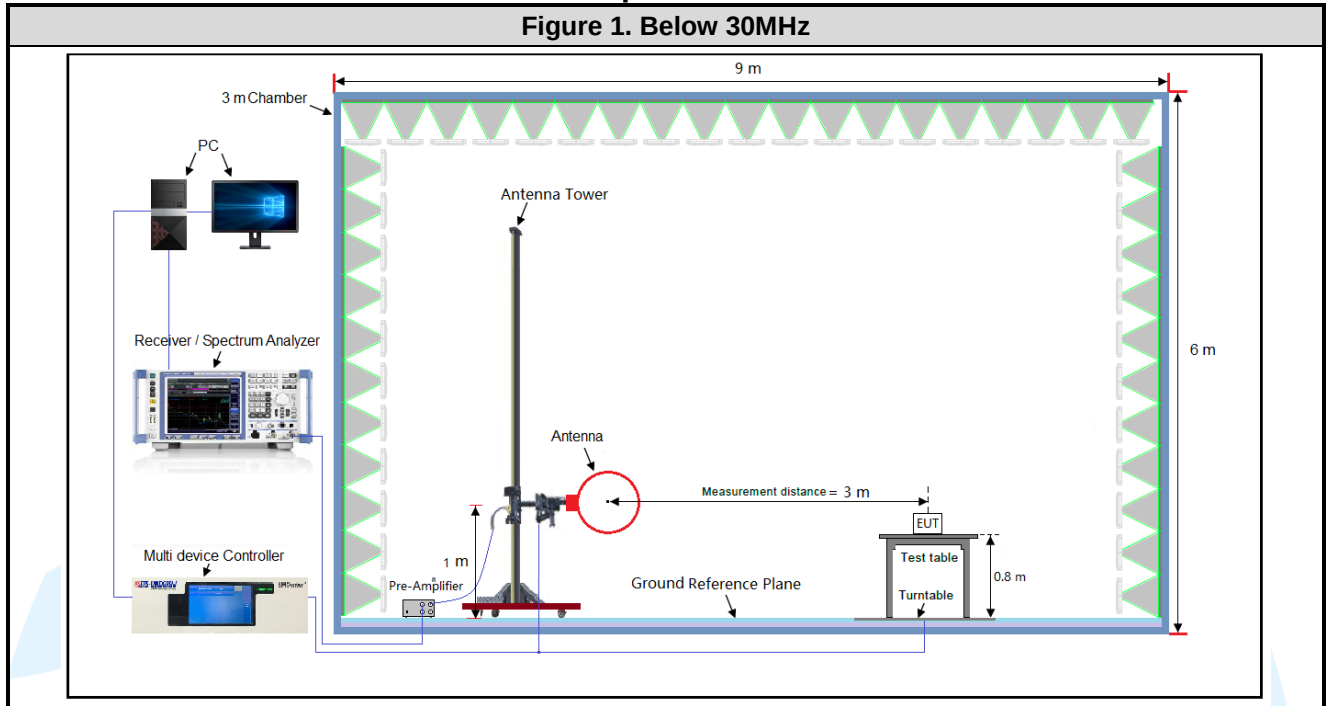
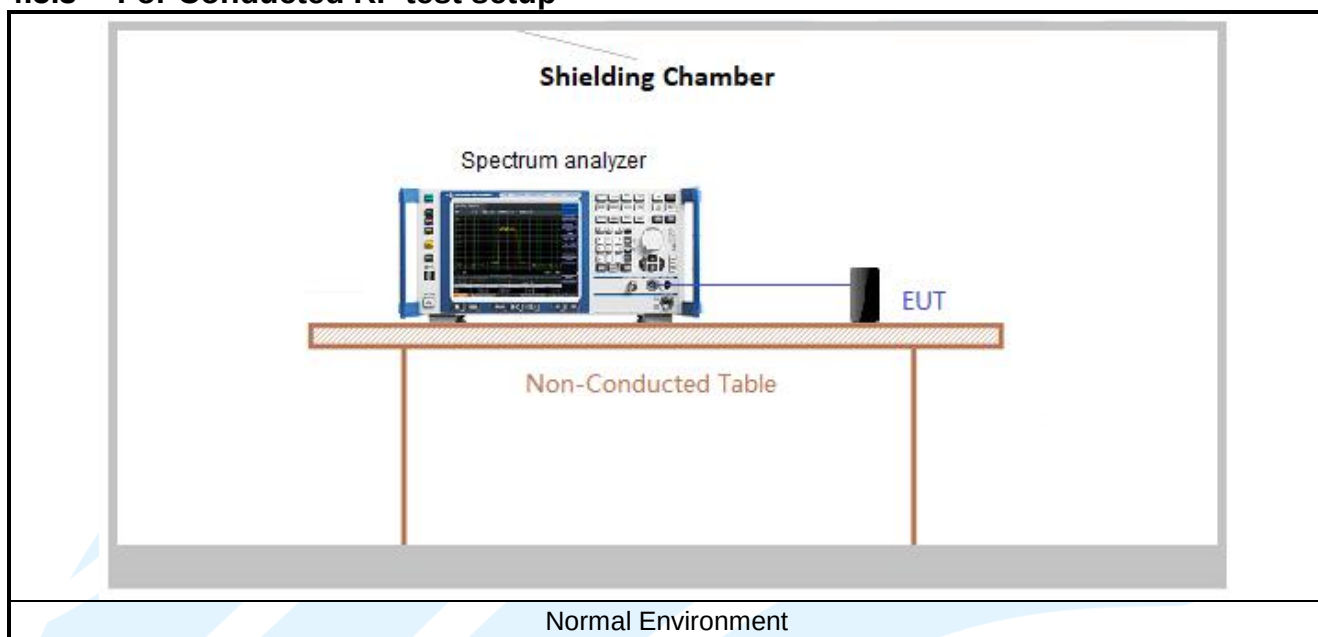


Figure 3. Above 1GHz

The diagram illustrates the setup for measurements above 1 GHz within a 3 m Chamber. The chamber dimensions are 9 m by 6 m. A 3 m high absorber layer is at the top. A 1 m to 4 m high antenna tower is positioned 3 m from a test table. The test table is 1.5 m high and holds a Turntable with a Test table. A Ground Reference Plane is at the base. A Receiver / Spectrum Analyzer is connected to a PC and a Multi device Controller.

The diagram illustrates the layout of a Shielding Room used for testing. On the left, a workstation on a table includes a PC, a Receiver, and a Pulse Limiter. A Ground Reference Plane is indicated below the table. Two LISN (Line Impedance Stabilization Network) units, LISN 1 and LISN 2, are connected to the AC Mains. LISN 1 is connected to the Pulse Limiter and the Receiver. LISN 2 is connected to the AC Mains. The test setup consists of a Test table with two EUT/AE (Equipment Under Test/Accessory Equipment) units and a PSU (Power Supply Unit). The EUT/AE units are spaced 10 cm apart, and the PSU is 10 cm from the second EUT/AE unit. The Test table is elevated 40 cm from the floor, with Insulation ≤ 0.15 m. The distance from the AC Mains to the Test table is 80 cm. The distance from the Pulse Limiter to the Test table is 80 cm. The distance from the PSU to the Test table is 80 cm.

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 (see table below) orientation.

Frequency	Mode	Antenna Port	Worst-case axis positioning
Above 1GHz	1TX	Chain 0	Z axis

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 C63.10-2013 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	5.48	5.55	98.74	0.06	0.18
11A	Ant1	5260	5.48	5.55	98.74	0.06	0.18
11A	Ant1	5500	5.47	5.57	98.20	0.08	0.18
11A	Ant1	5745	5.47	5.55	98.56	0.06	0.18
11N20SISO	Ant1	5180	5.38	5.45	98.72	0.06	0.19
11N20SISO	Ant1	5260	5.35	5.42	98.71	0.06	0.19
11N20SISO	Ant1	5500	5.35	5.43	98.53	0.06	0.19
11N20SISO	Ant1	5745	5.35	5.45	98.17	0.08	0.19
11N40SISO	Ant1	5190	3.00	3.07	97.72	0.10	0.33
11N40SISO	Ant1	5270	3.03	3.10	97.74	0.10	0.33
11N40SISO	Ant1	5510	3.00	3.10	96.77	0.14	0.33
11N40SISO	Ant1	5755	3.00	3.07	97.72	0.10	0.33
11AC20SISO	Ant1	5180	5.38	5.48	98.18	0.08	0.19
11AC20SISO	Ant1	5260	5.37	5.47	98.17	0.08	0.19
11AC20SISO	Ant1	5500	5.38	5.48	98.18	0.08	0.19
11AC20SISO	Ant1	5745	5.38	5.48	98.18	0.08	0.19
11AC40SISO	Ant1	5190	5.15	5.23	98.47	0.07	0.19
11AC40SISO	Ant1	5270	5.15	5.25	98.10	0.08	0.19
11AC40SISO	Ant1	5510	5.15	5.25	98.10	0.08	0.19
11AC40SISO	Ant1	5755	5.15	5.23	98.47	0.07	0.19
11AC80SISO	Ant1	5210	4.75	4.85	97.94	0.09	0.21
11AC80SISO	Ant1	5290	4.75	4.85	97.94	0.09	0.21
11AC80SISO	Ant1	5530	4.75	4.82	98.55	0.06	0.21
11AC80SISO	Ant1	5775	4.75	4.83	98.34	0.07	0.21
11AX20SISO	Ant1	5180	4.65	4.72	98.52	0.06	0.22
11AX20SISO	Ant1	5260	4.63	4.70	98.51	0.07	0.22
11AX20SISO	Ant1	5500	4.65	4.72	98.52	0.06	0.22
11AX20SISO	Ant1	5745	4.65	4.72	98.52	0.06	0.22
11AX40SISO	Ant1	5190	4.63	4.73	97.89	0.09	0.22
11AX40SISO	Ant1	5270	4.63	4.73	97.89	0.09	0.22
11AX40SISO	Ant1	5510	4.62	4.70	98.30	0.07	0.22
11AX40SISO	Ant1	5755	4.62	4.72	97.88	0.09	0.22
11AX80SISO	Ant1	5210	4.40	4.47	98.43	0.07	0.23
11AX80SISO	Ant1	5290	4.43	4.53	97.79	0.10	0.23
11AX80SISO	Ant1	5530	4.40	4.47	98.43	0.07	0.23

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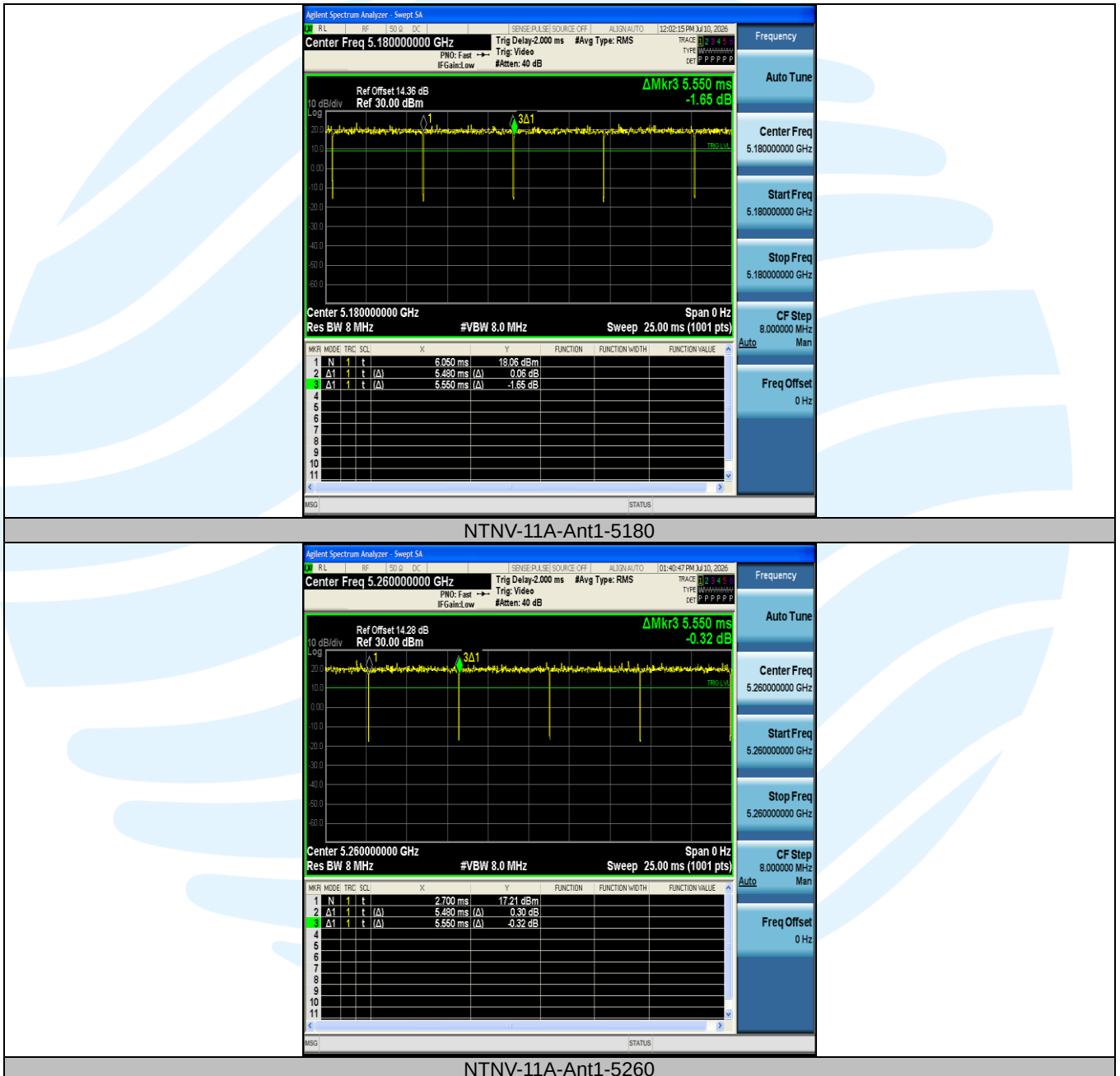
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11AX80SIS O	Ant1	5775	4.42	4.50	98.22	0.08	0.23
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Remark:

- 1) Duty cycle= On Time/ Period;
- 2) Duty Cycle factor = $10 * \log(1/ \text{Duty cycle})$;
- 3) Average factor = $20 \log_{10} \text{Duty Cycle}$.

The test plots as follows

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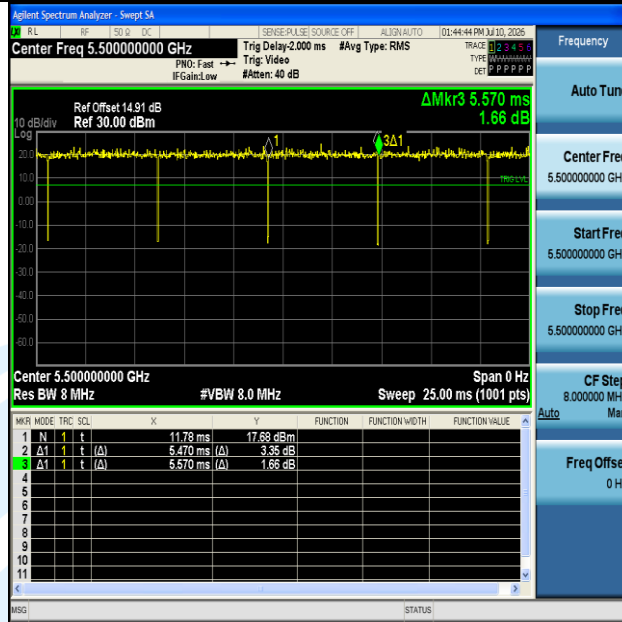
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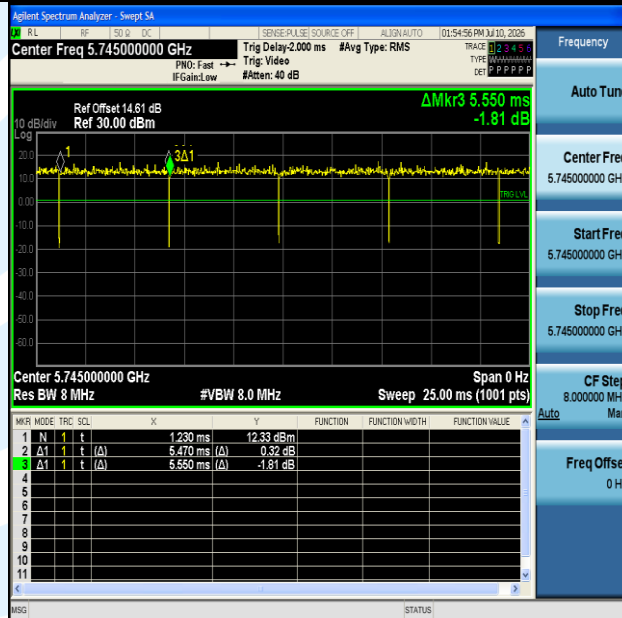
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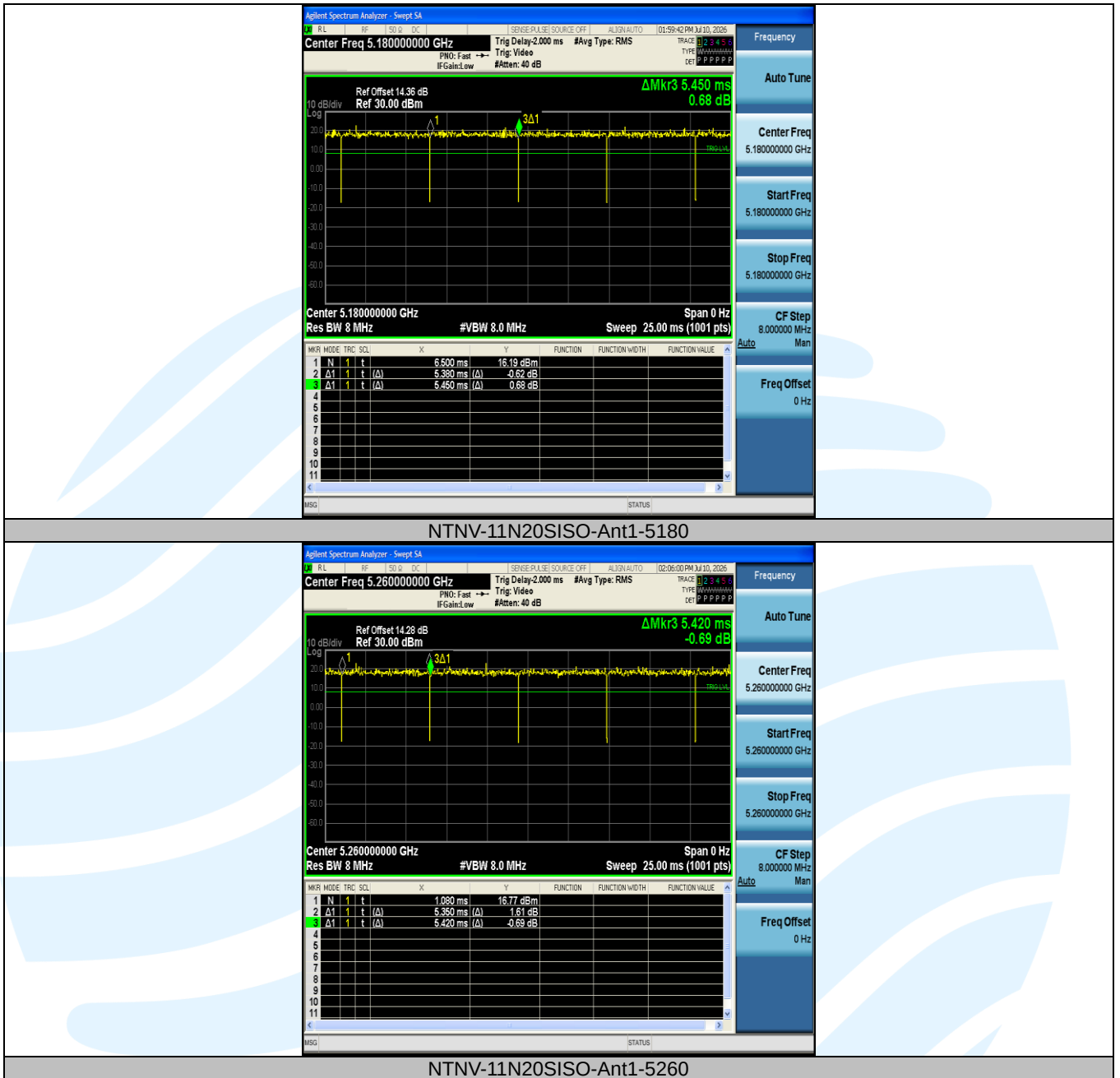
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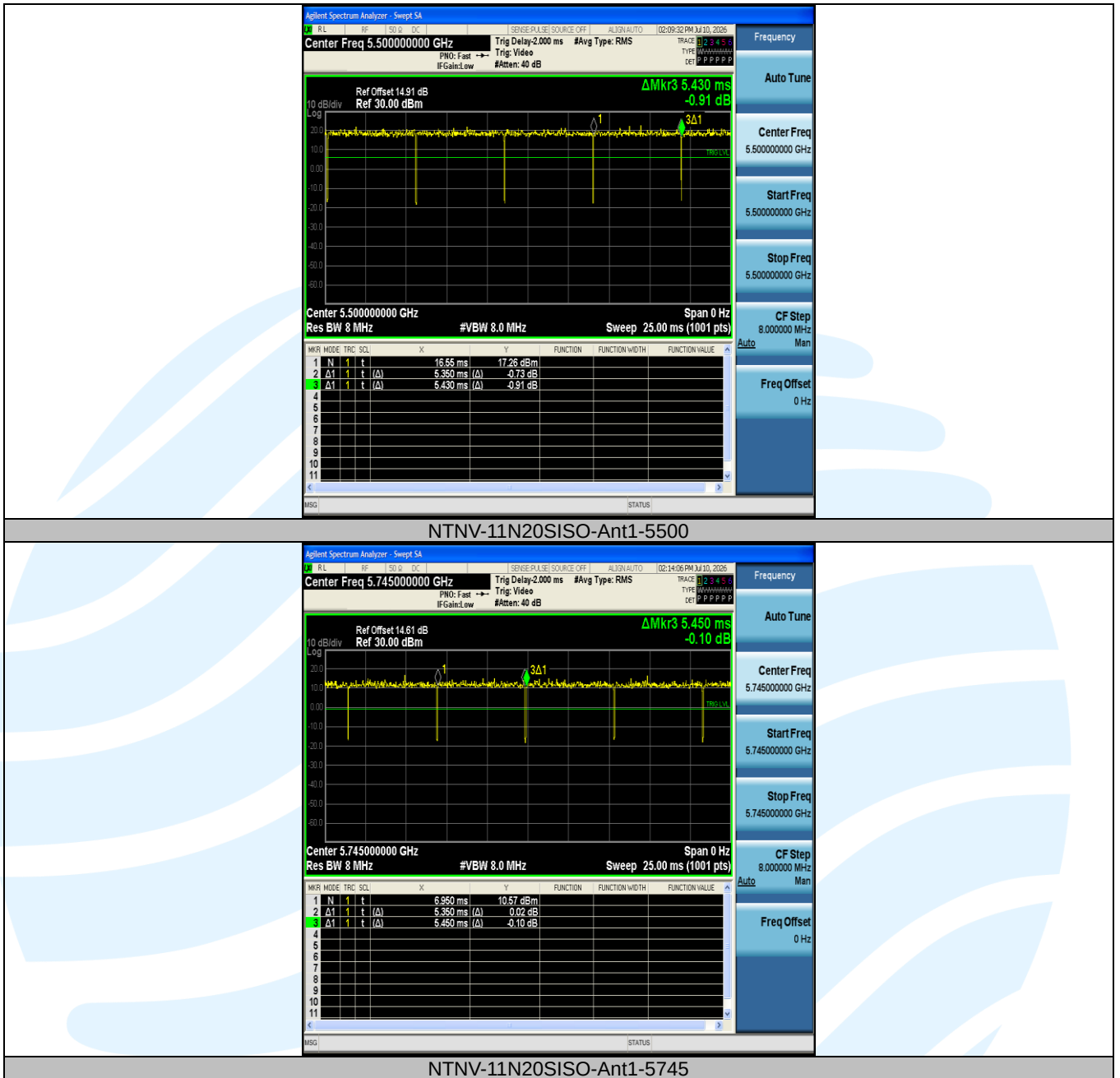


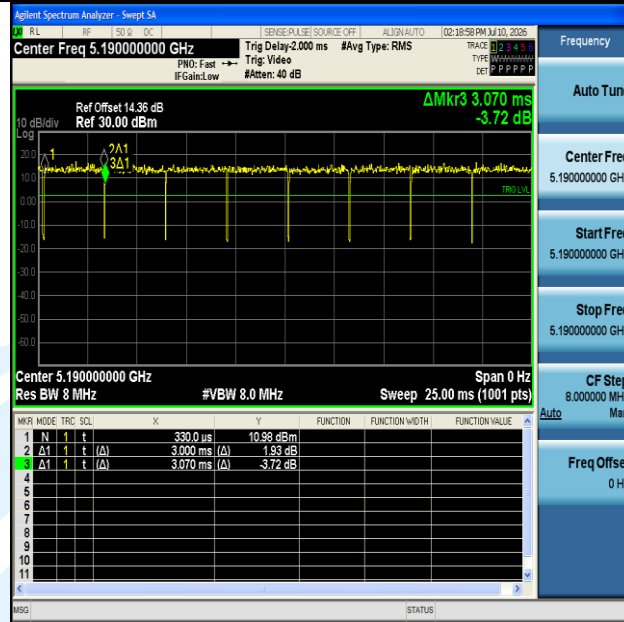
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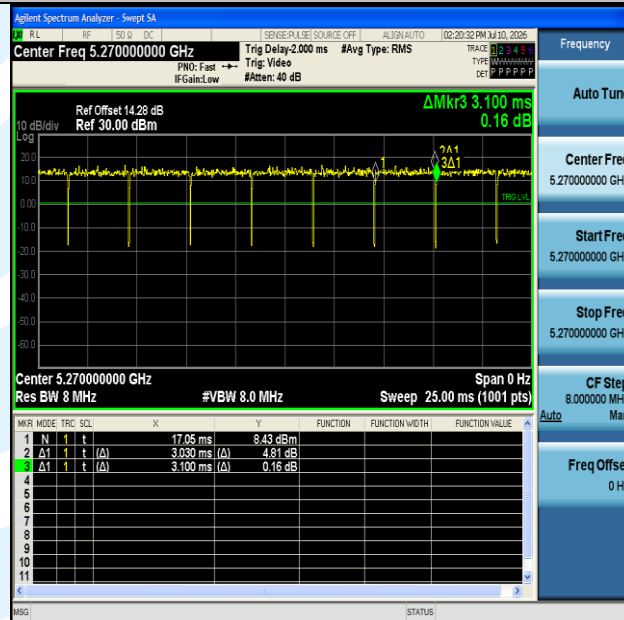
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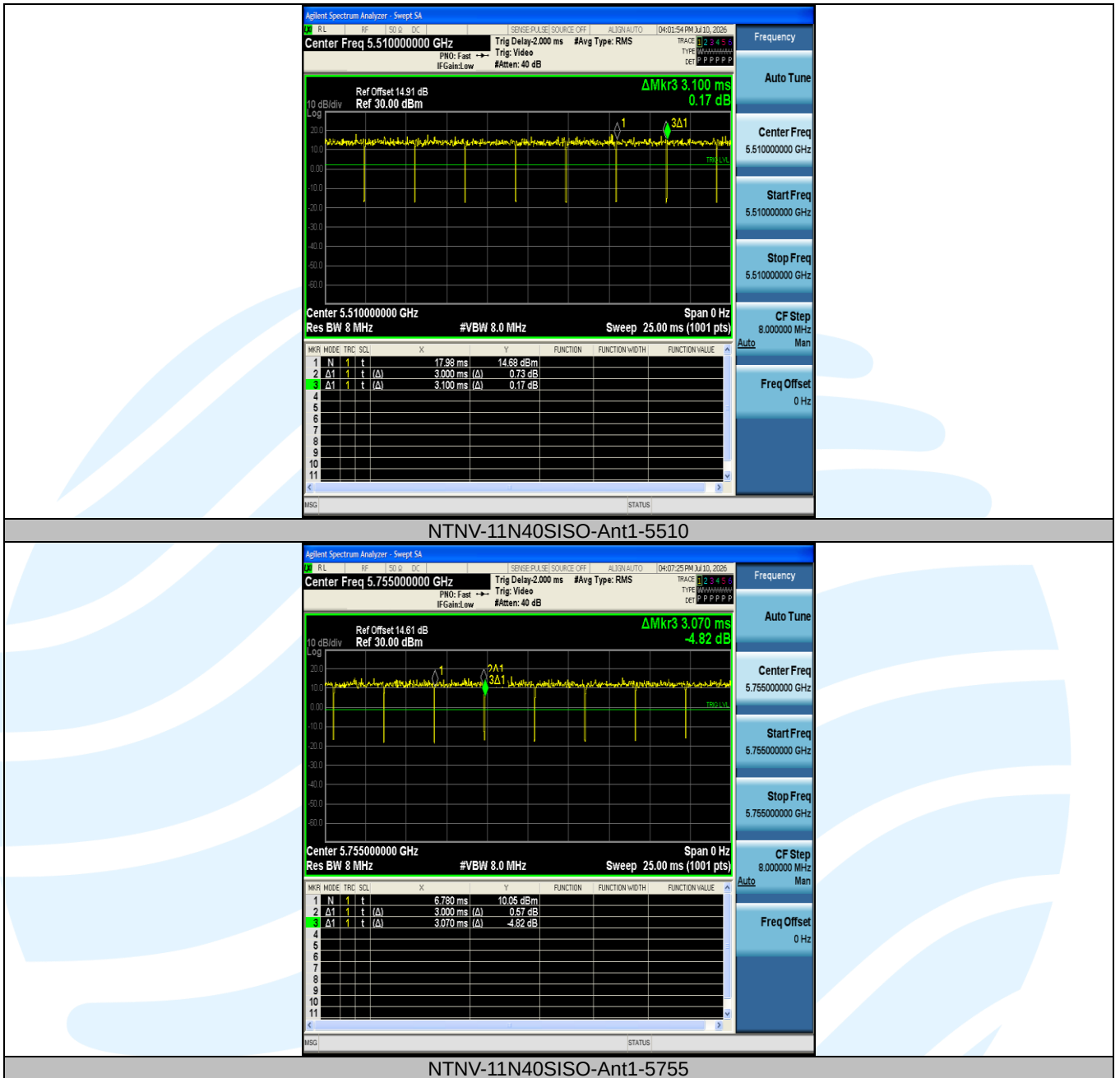


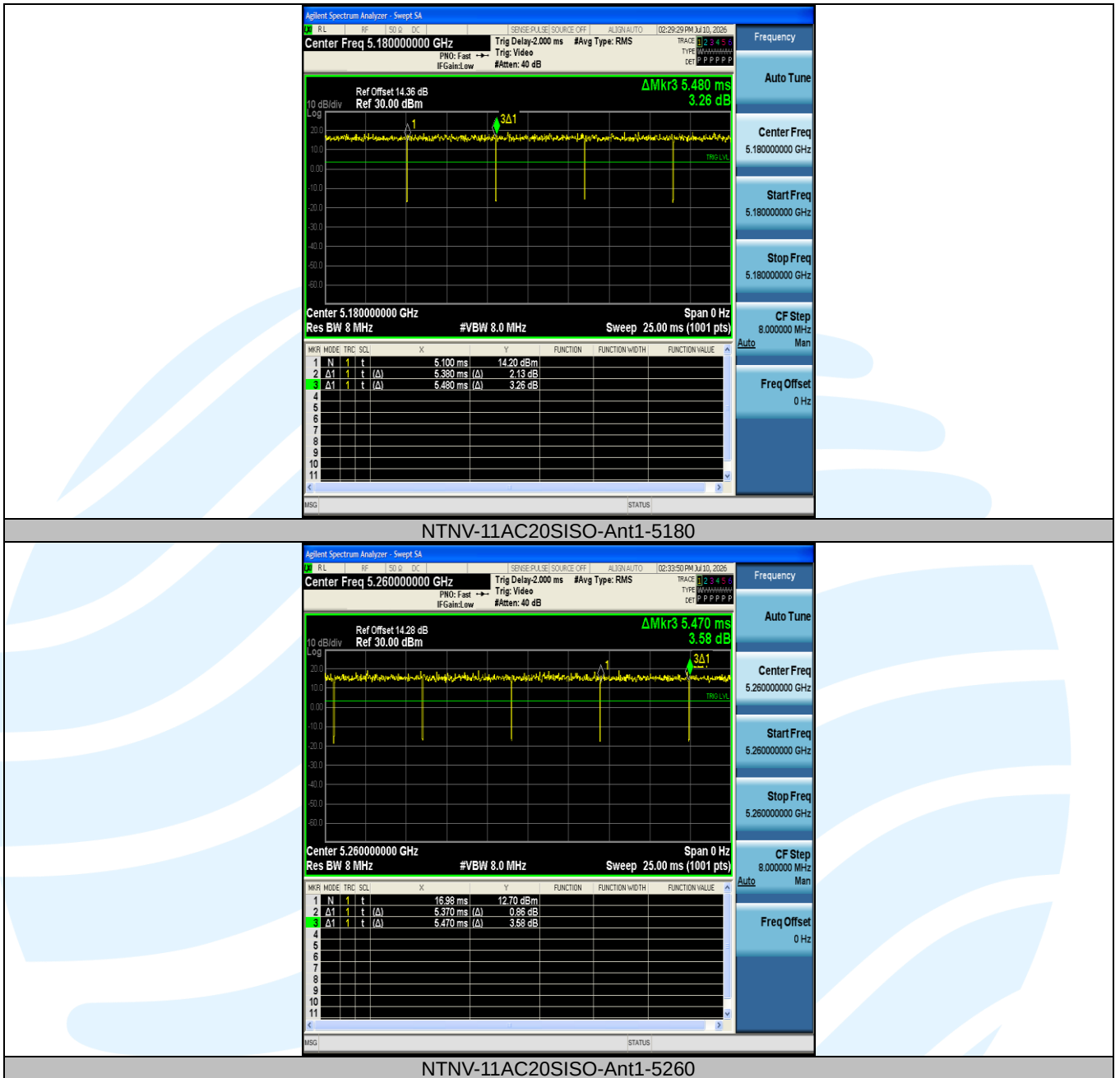


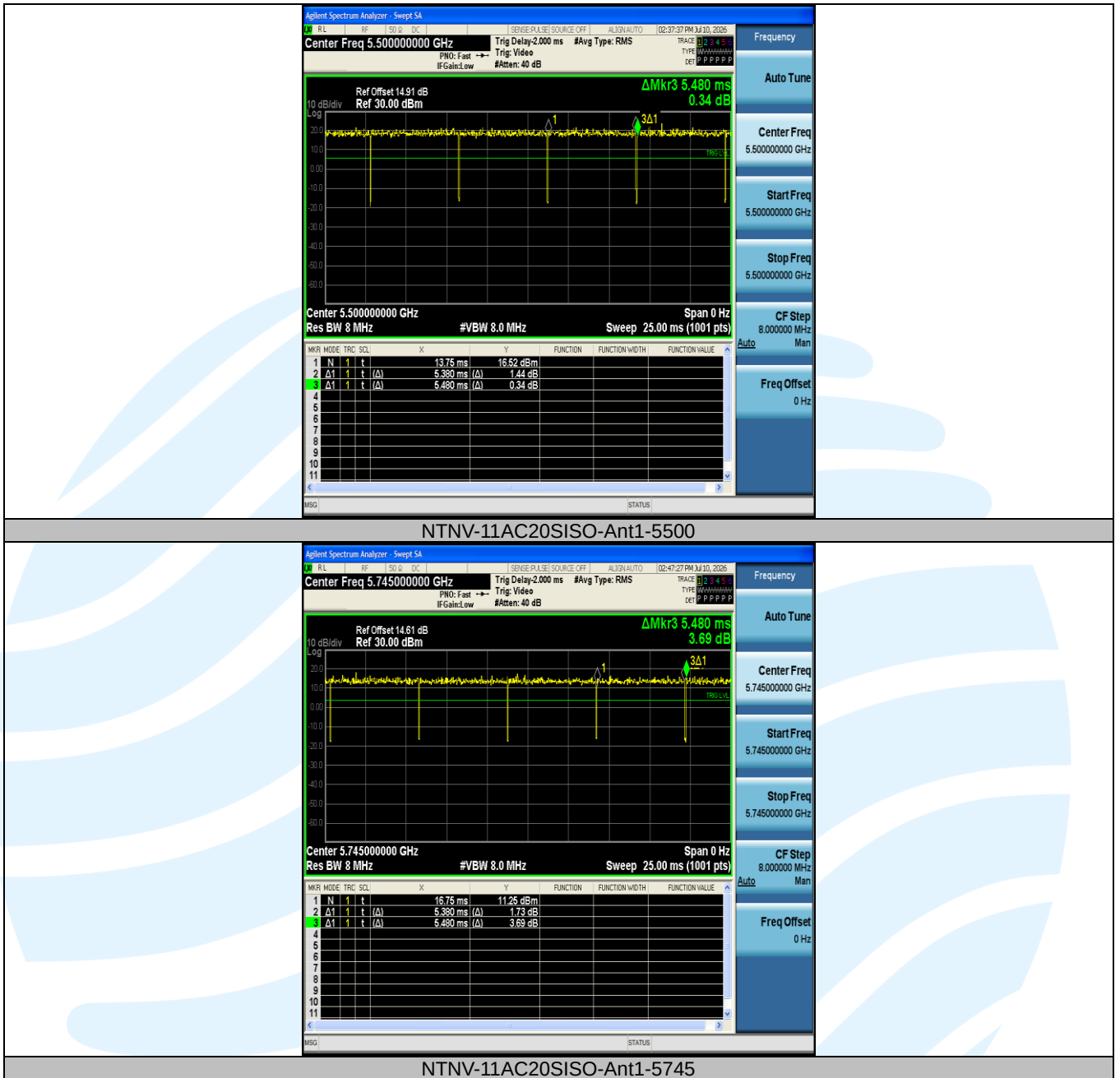
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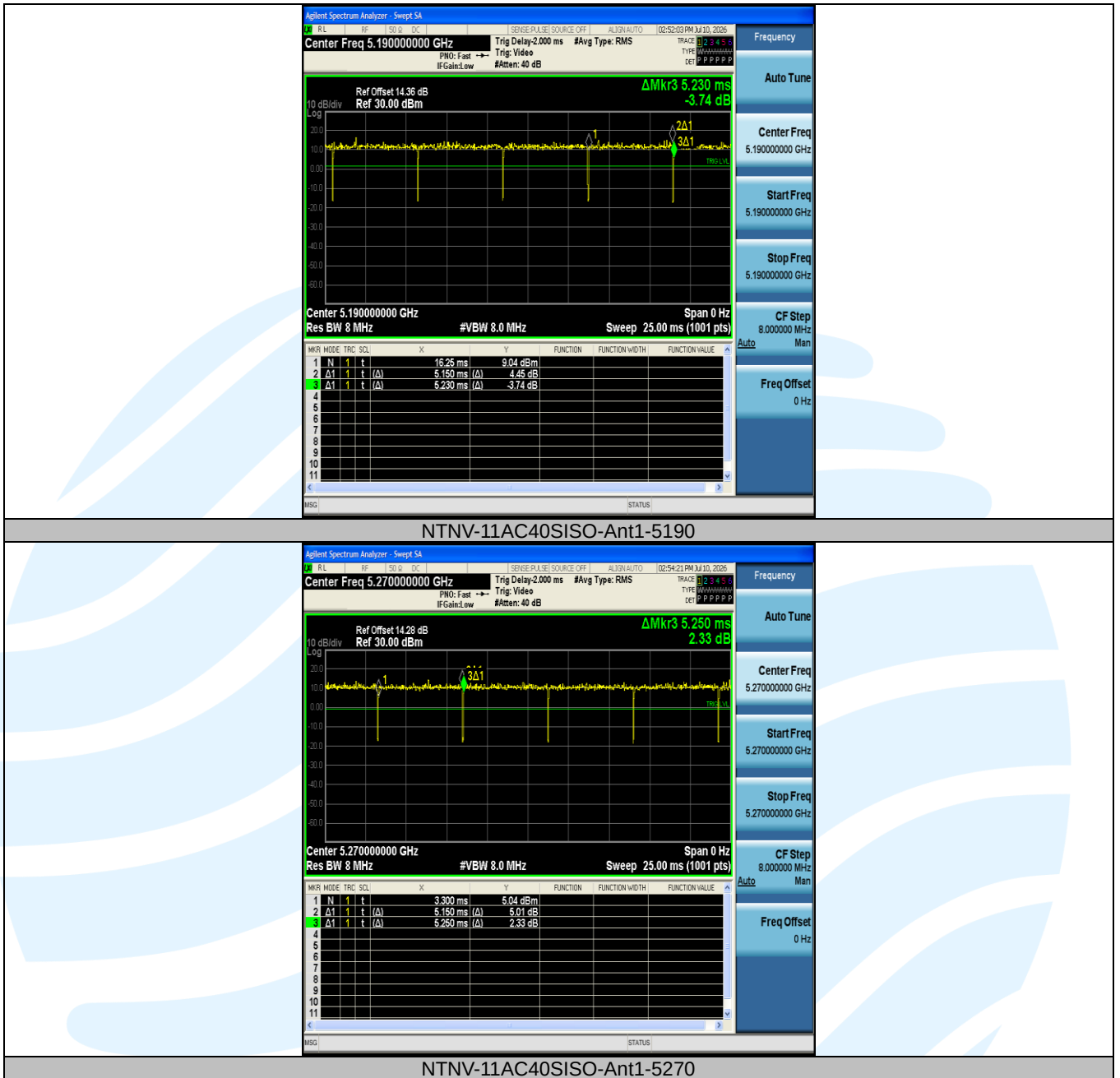


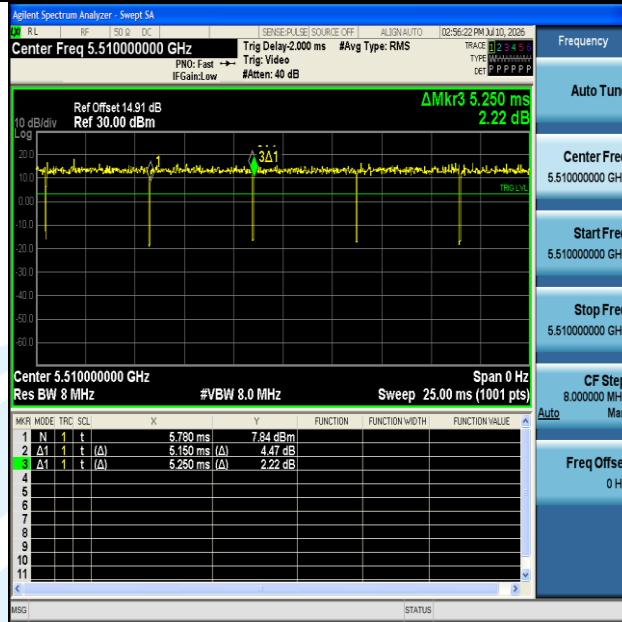
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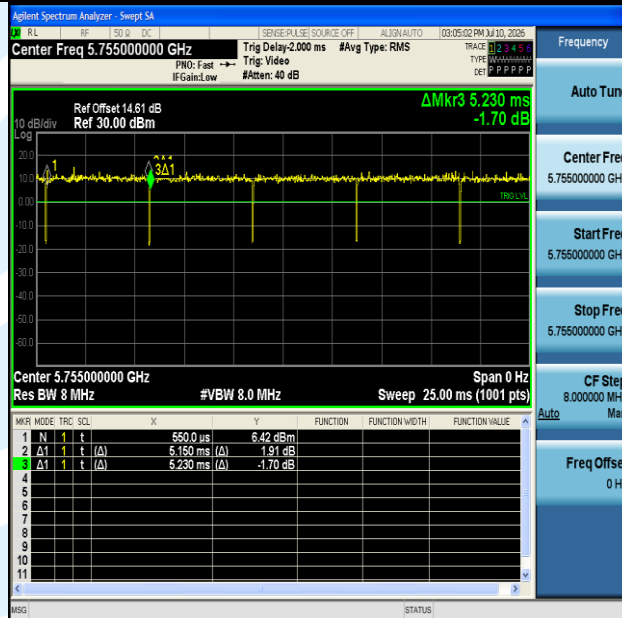




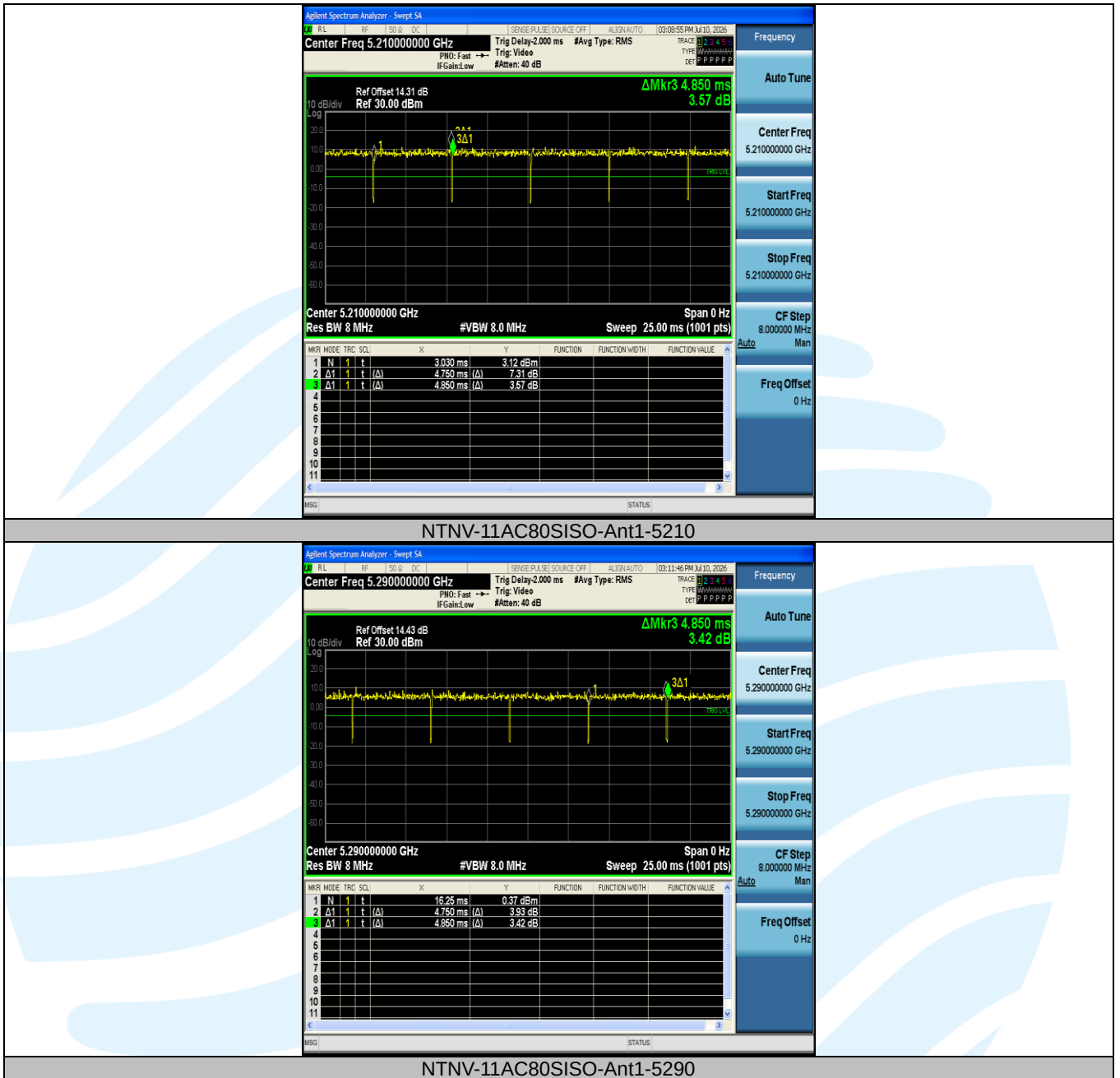


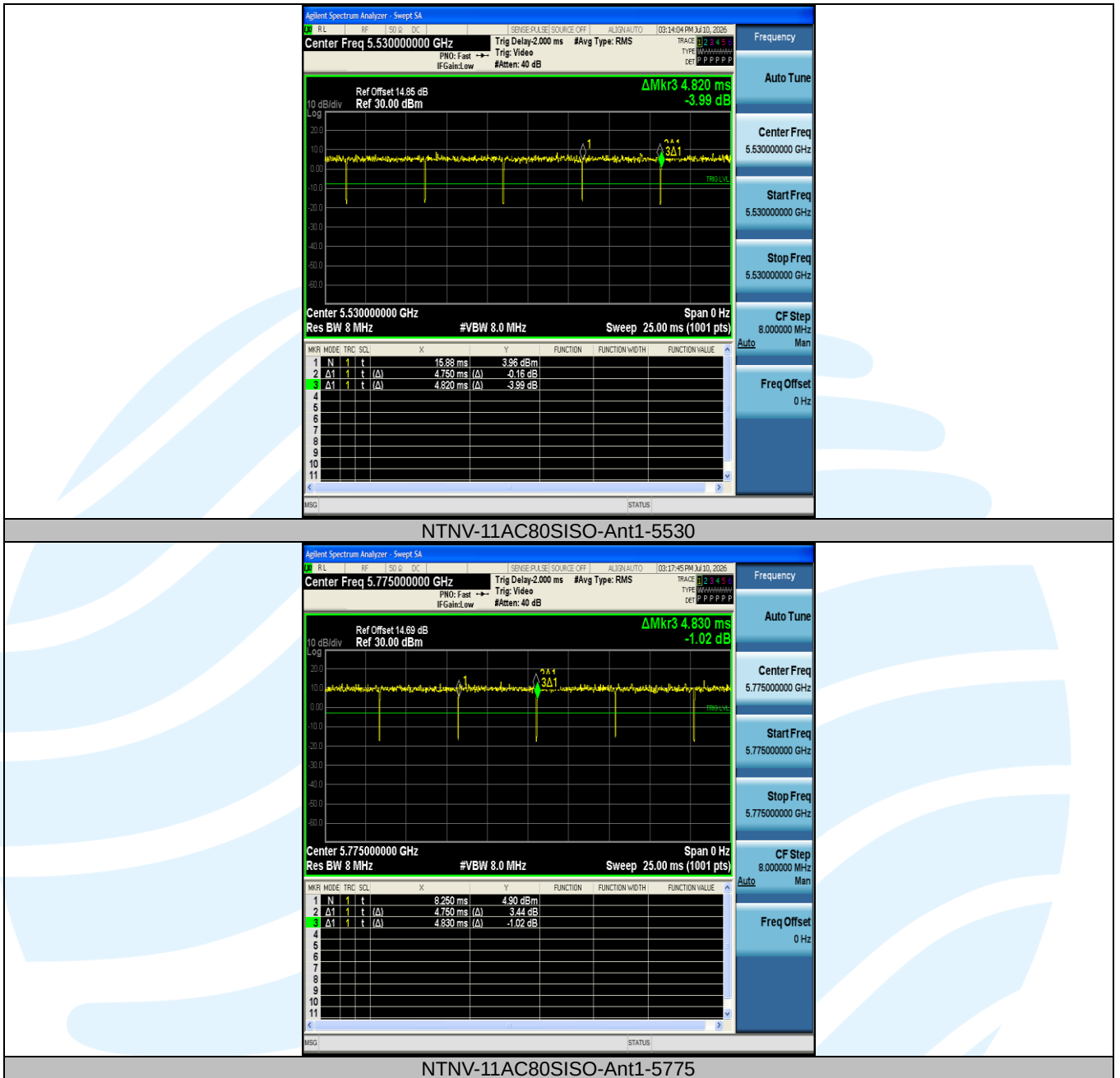


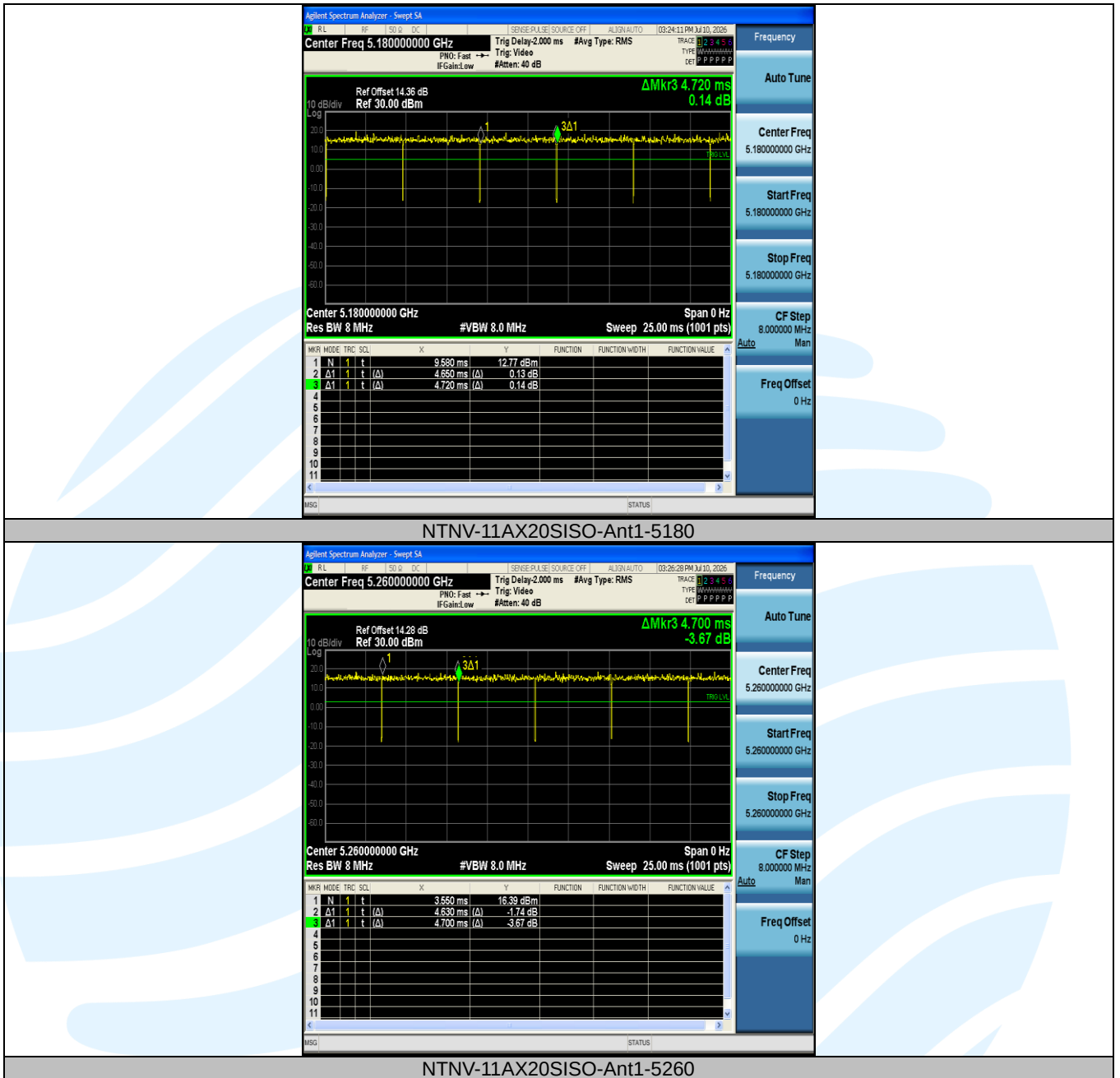
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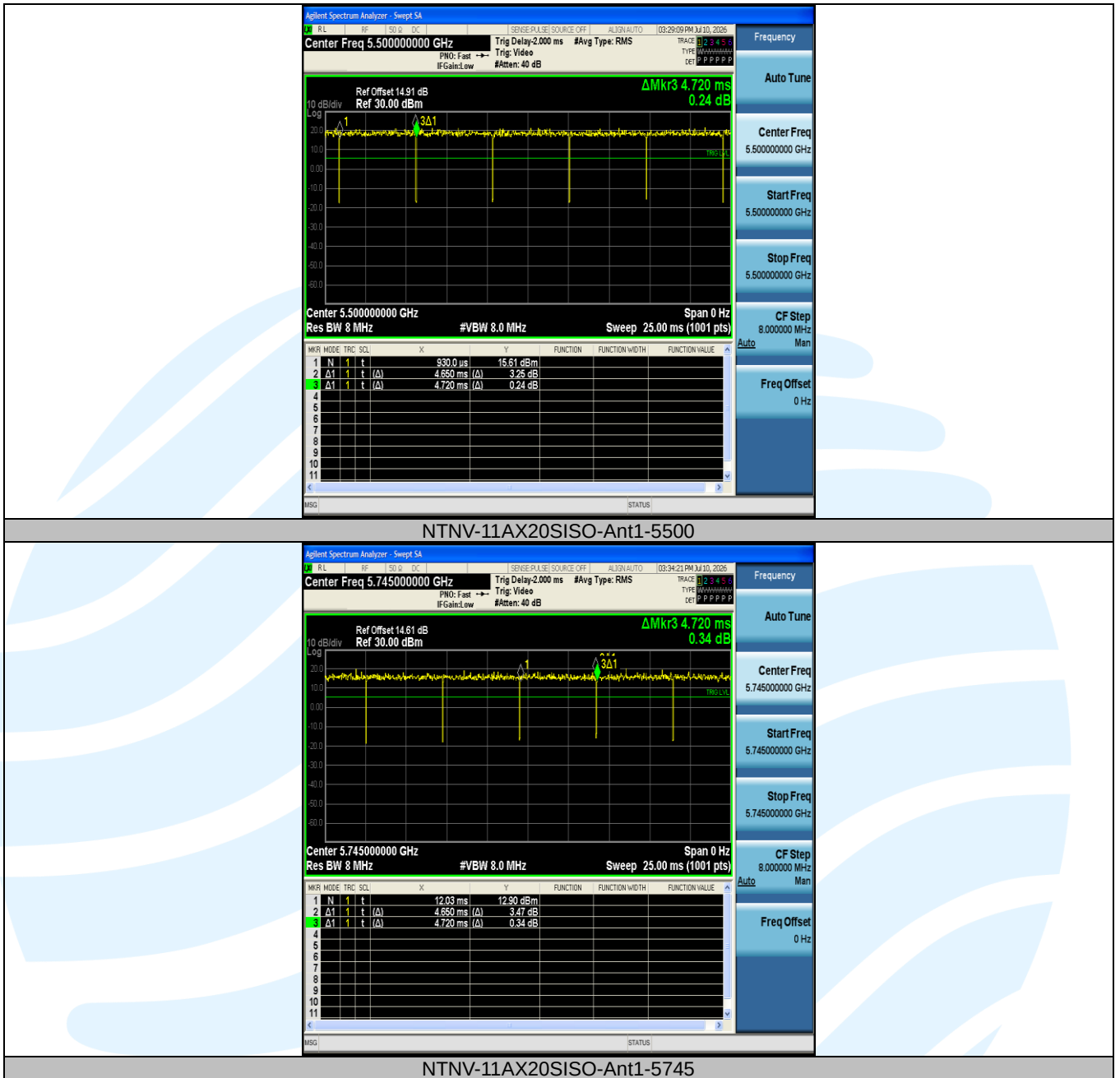


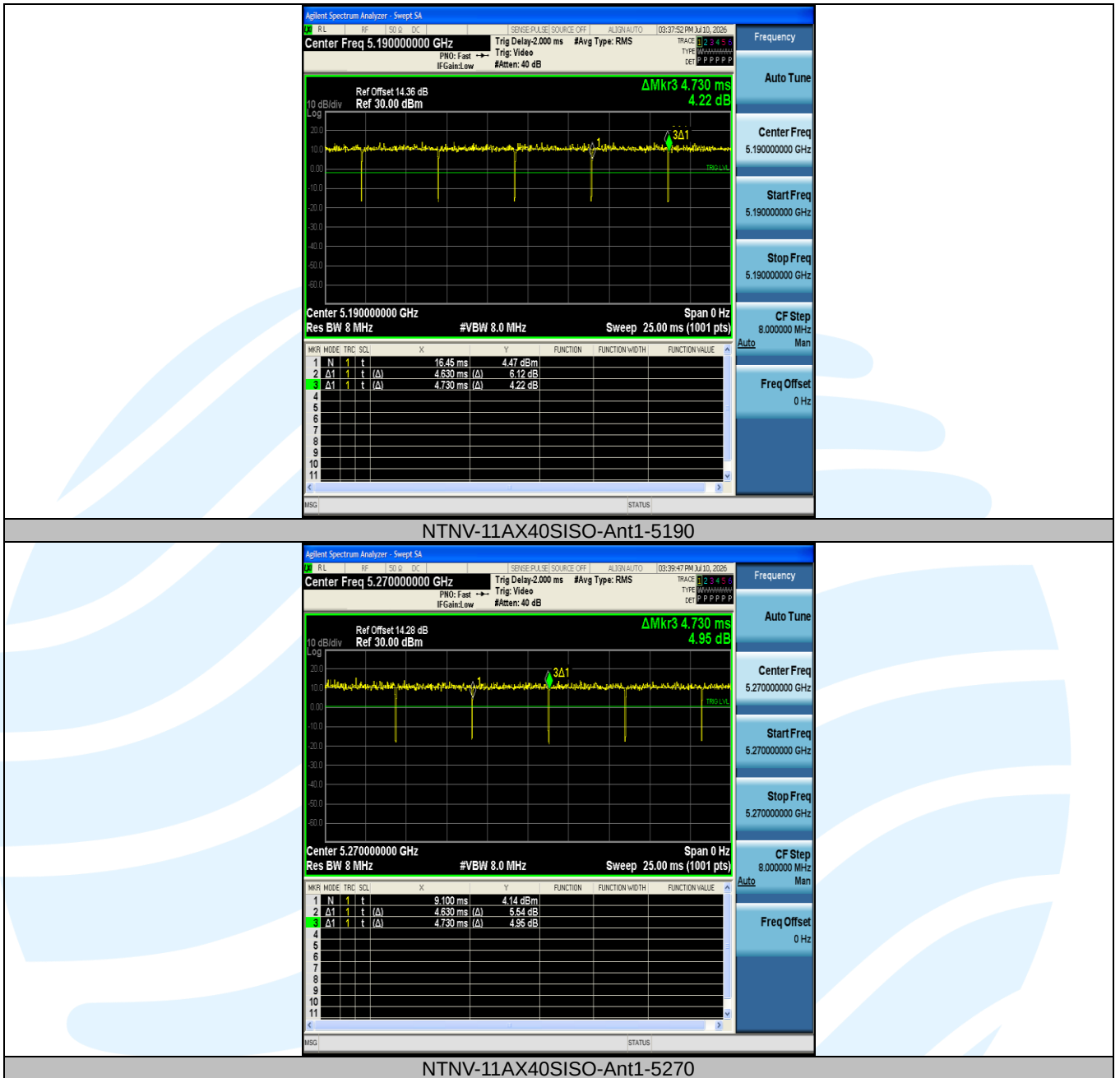
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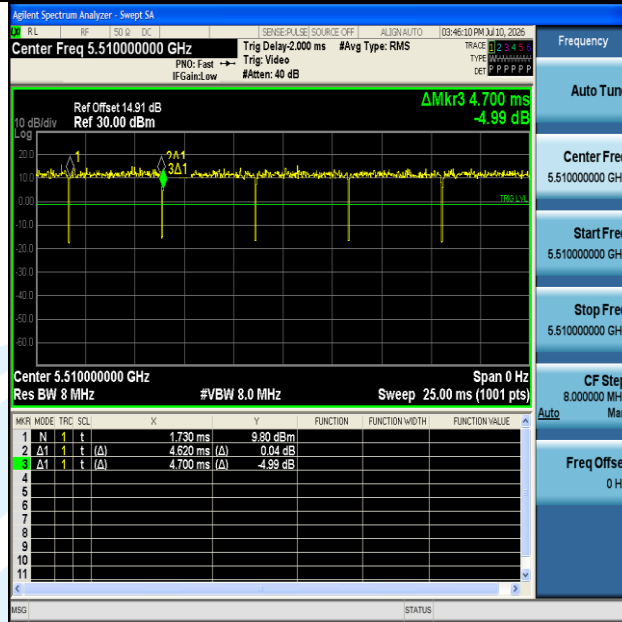




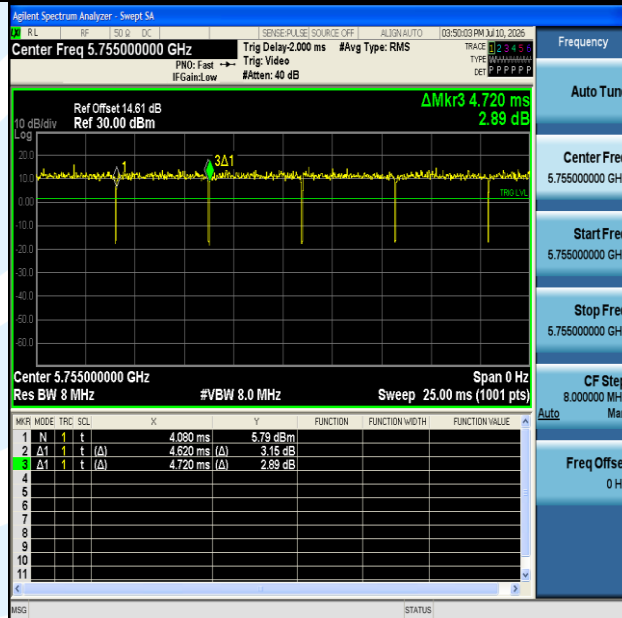




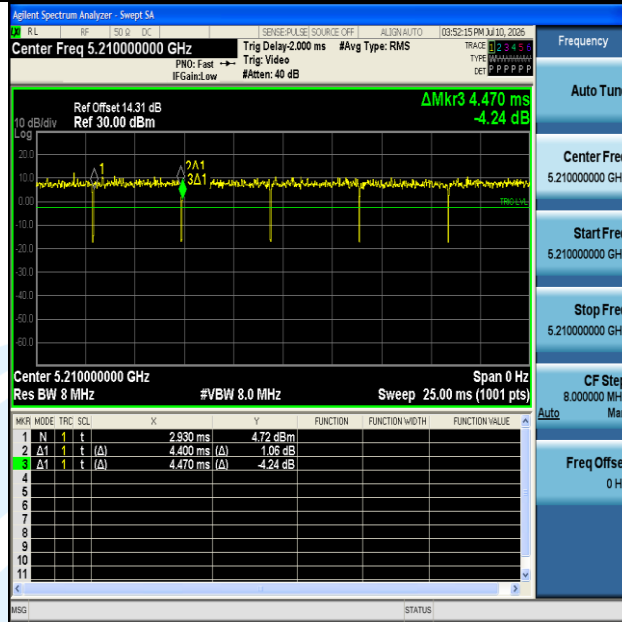




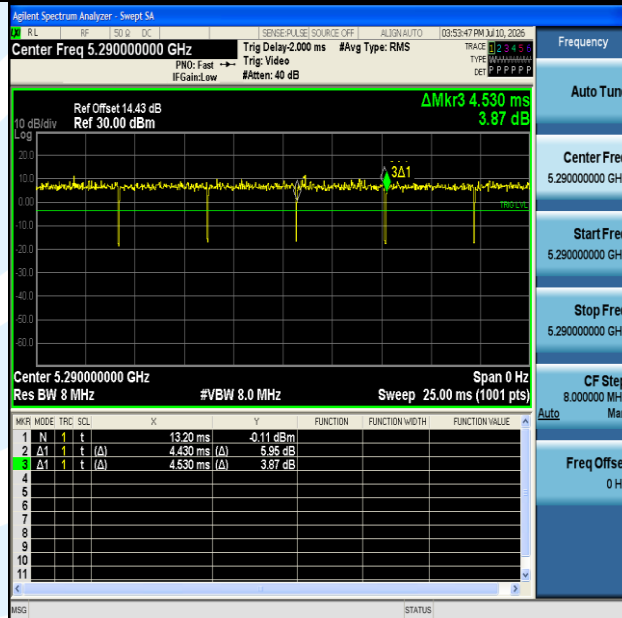
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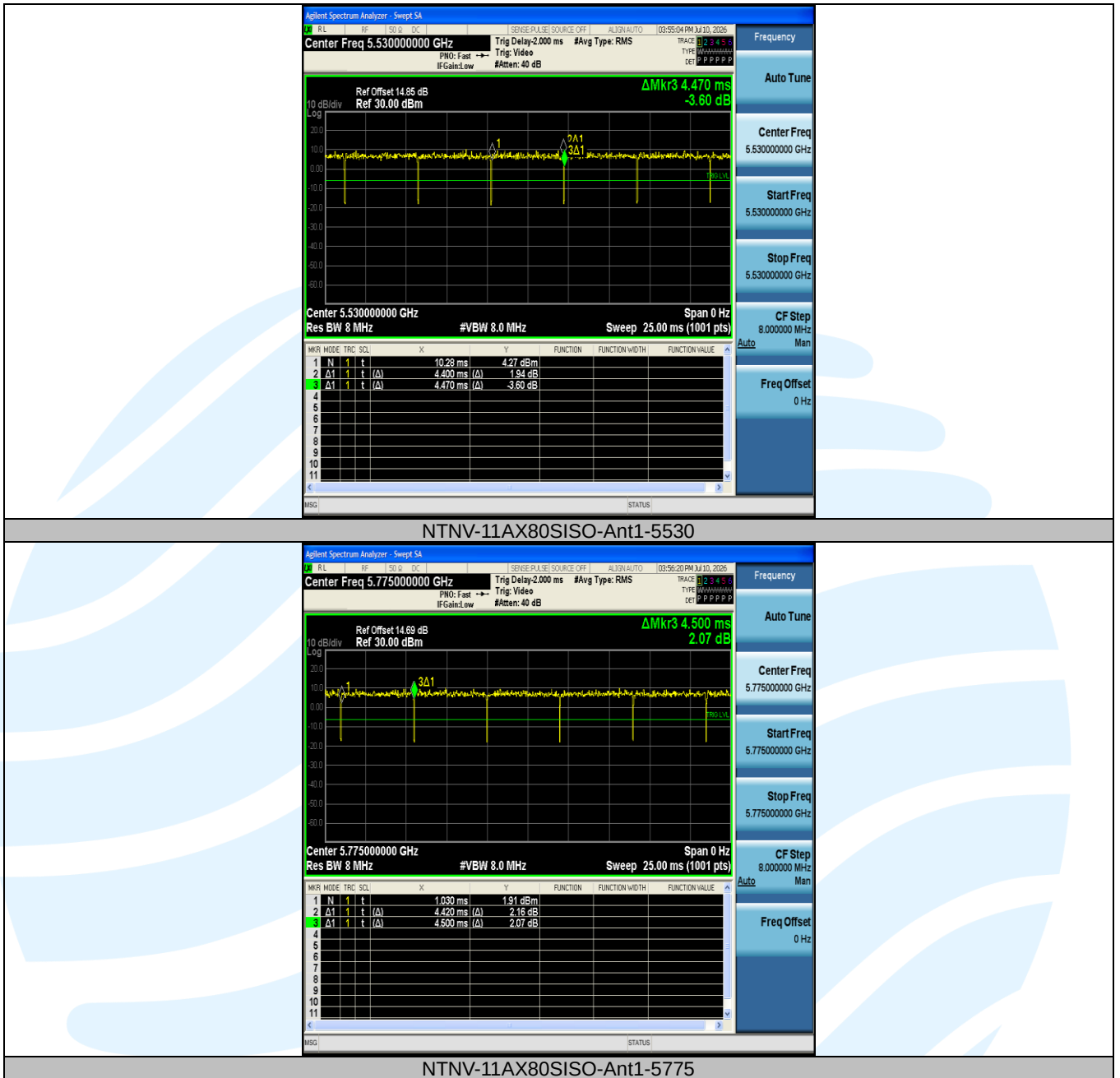
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NTNV-11AX80SISO-Ant1-5210



NTNV-11AX80SISO-Ant1-5290



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	RSS-247 Issue 4	Digital Transmission Systems, Frequency Hopping Systems and Licence-Exempt Local Area Network Devices in 902-928 MHz, 2400-2483.5 MHz, 5150-5350 MHz, and 5470-5895 MHz bands
4	RSS-Gen Issue 6	General Requirements for Compliance of Radio Apparatus
5	ANSI C63.10-2020 + COR. 1-2023 + C63.10A-2024 + ERRATA TO C63.10A-2024	American National Standard for Testing Unlicensed Wireless Devices
6	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
7	KDB 905462 D06 802.11 Channel Plans New Rules v02	Operation in U-NII bands -802.11 channel PLAN(\$15.407)
8	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
9	KDB 905462 D03 Client Without DFS New Rules v01r02	U-NII client devices without radar detection capability

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. RSS-Gen Issue 6, Section 5.2 requirement: According to RSS-Gen Issue 6, Section 5.2, a transmitter can only be sold or operated with antennas with which it was certified. A transmitter may be certified with multiple antenna types. An antenna type comprises antennas having similar in-band and out-of-band radiation patterns. EUT Antenna: Antenna in the interior of the equipment and no consideration of replacement. The max gain of the antenna is 4.26 dBi.

5.326 DB BANDWIDTH & OCCUPIED BANDWIDTH

Test Requirement: FCC 47 CFR Part 15 Subpart E Section 15.407 (a)(2)(5)
RSS-247 Issue 4 Section 7.3.1.3
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 = approximately 1 % 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 analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1 %.

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: Link mode
Test Results: Please refer to Appendix A

5.46 DB BANDWIDTH & OCCUPIED BANDWIDTH

	FCC 47 CFR Part 15 Subpart E Section 15.407 (e)
Test Requirement:	RSS-247 Issue 4 Section 7.3.4.2 RSS-Gen Issue 6, section 5.1
Test Method:	KDB 789033 D02 v02r01 Section C.2 RSS-Gen Issue 6, section 5.1
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:

6dB Bandwidth

- 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 RBW = 1% to 5% of the occupied bandwidth
- b) Set the video bandwidth (VBW) $\geq 3 \times \text{RBW}$.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.

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

5.5 MAXIMUM CONDUCTED OUTPUT POWER OR E.I.R.P

Test Requirement: FCC 47 CFR Part 15 Subpart E Section 15.407 (a)(1)(2)(3)
RSS-247 Issue 4 Section 7.3.1.2 / 7.3.2.2/7.3.3.2/7.3.4.3

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

Limits: FCC 47 CFR Part 15 Subpart E

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 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.

(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.

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.

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Limits: RSS-247 Issue 4

1. Frequency band 5150-5250 MHz

For OEM devices installed in vehicles, the maximum e.i.r.p. shall not exceed the lesser of:

- a. 30 mW; or
- b. $1.76 + 10 \log B$, dBm.

OEM devices installed in vehicles with a maximum e.i.r.p. greater than 15 mW shall implement TPC in order to have the capability to operate at least 3 dB below the maximum permitted e.i.r.p. of 30 mW. For all other devices the maximum e.i.r.p. spectral density shall not exceed 10dBm/MHz. The maximum e.i.r.p. shall not exceed the lesser of:

- a. 200 mW; or
- b. $10 + 10 \log B$, dBm.

2. Frequency band 5250-5350 MHz

For OEM devices installed in vehicles, the maximum e.i.r.p. shall not exceed the lesser of:

- a. 30 mW; or
- b. $1.76 + 10 \log B$, dBm.

OEM devices installed in vehicles with a maximum e.i.r.p. greater than 15 mW shall implement TPC in order to have the capability to operate at least 3 dB below the maximum permitted e.i.r.p. of 30 mW.

All other devices shall comply with the following:

- a. the maximum power spectral density shall not exceed 11 dBm/MHz and the maximum conducted output power shall not exceed the lesser of:
 - i. 250 mW; or
 - ii. $11 + 10 \log B$, dBm.
- b. the maximum e.i.r.p. shall not exceed the lesser of:
 - i. 1.0 W; or
 - ii. $17 + 10 \log B$, dBm.
- c. Devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

3. Frequency band 5470-5725 MHz

Equipment operating in the band 5470-5725 MHz shall comply with the following power limits:

- a. the maximum conducted output power shall not exceed the lesser of:
 - i. 250 mW; or
 - ii. $11 + 10 \log B$, dBm.
- b. the maximum power spectral density shall not exceed 11 dBm/MHz.
- c. the maximum e.i.r.p. shall not exceed the lesser of:
 - i. 1.0 W; or
 - ii. $17 + 10 \log B$, dBm.
- d. equipment with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

4. Frequency band 5725-5850 MHz

Equipment operating in the band 5725-5850 shall comply with the following power limits:

- a. the maximum conducted output power shall not exceed 1 W; and
- b. the maximum output power spectral density shall not exceed 30dBm/500 kHz.

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

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UTTR-RF-RSS247-V1.1

Test Data:

Gain and the maximum output power limit.

RSS-247 Issue 4

Frequency Band	Antenna Gain (dBi)	Power Limits (dBm)
U-NII-1	3.28	23.0
U-NII-2A	2.6	24.0
U-NII-2C	4.08	24.0
U-NII-3	4.26	30.0

FCC 47 CFR Part 15 Subpart E

Frequency Band	Antenna Gain (dBi)	Power Limits (dBm)
U-NII-1	3.28	24.0
U-NII-2A	2.6	24.0
U-NII-2C	4.08	24.0
U-NII-3	4.26	30.0

Frequency band 5150-5250 MHz

RSS-247 Issue 4:

For IEEE 802.11a, the minimum 99% emission bandwidth is 17.347MHz

$10 \text{ dBm} + 10\log_{10}(17.347) = 22.39 \text{ dBm} < 23 \text{ dBm}$

So the 22.39 dBm limit applicable

For IEEE 802.11n-HT20/ ac-VHT20/ax-HE20, the minimum 99% emission bandwidth is 18.341 MHz

$10 \text{ dBm} + 10\log_{10}(18.341) = 22.63 \text{ dBm} < 23 \text{ dBm}$

So the 22.63 dBm limit applicable

For IEEE 802.11n-HT40/ac-VHT40/ax-HE40/ac-VHT80/ax-HE80, the minimum 99% emission bandwidth is 36.825 MHz

$10 \text{ dBm} + 10\log_{10}(36.825) = 25.66 \text{ dBm} > 23 \text{ dBm}$

So the 23 dBm limit applicable

Frequency band 5250-5350 MHz

RSS-247 Issue 4:

For IEEE 802.11 a, the minimum 99% emission bandwidth is 17.362 MHz

$11 \text{ dBm} + 10\log_{10}(17.362) = 23.40 \text{ dBm} < 24\text{dBm}$

So the 23.40 dBm limit applicable

For IEEE 802.11n-HT20/ ac-VHT20/ax-HE20, the minimum 99% emission bandwidth is 18.347 MHz

$11 \text{ dBm} + 10\log_{10}(18.347) = 23.64 \text{ dBm} < 24\text{dBm}$

So the 23.64 dBm limit applicable

For IEEE 802.11 n-HT40/ac-VHT40/ax-HE40/ac-VHT80/ax-HE80, the minimum 99% emission bandwidth is 36.825 MHz

$11 \text{ dBm} + 10\log_{10}(36.825) = 26.66 \text{ dBm} > 24 \text{ dBm}$

So the 24 dBm limit applicable

EIRP:

For IEEE 802.11 a/n-HT20/ac-VHT20/ax-HE20, the minimum 99% emission bandwidth is 17.362MHz

$17 \text{ dBm} + 10\log_{10}(17.362) = 29.40 \text{ dBm}$

$29.40 \text{ dBm} > 27 \text{ dBm}$

So the 27 dBm limit applicable

For IEEE 802.11 n-HT40/ac-VHT40/ax-HE40/ac-VHT80/ax-HE80, the minimum 99% emission bandwidth is 36.825 MHz

$17 \text{ dBm} + 10\log_{10}(36.825) = 32.66 \text{ dBm} > 27 \text{ dBm}$

So the 27 dBm limit applicable

FCC 47 CFR Part 15 Subpart E:

For IEEE 802.11 a/n/ac/ax, the minimum 26 dB emission bandwidth is 20.95 MHz

$11 \text{ dBm} + 10\log_{10}(20.95) = 24.21 \text{ dBm} > 24 \text{ dBm}$

So the 24 dBm limit applicable

Frequency bands 5470-5725 MHz

RSS-247 Issue 4:

For IEEE 802.11 a, the minimum 99% emission bandwidth is 17.386 MHz

$11 \text{ dBm} + 10\log_{10}(17.386) = 23.40 \text{ dBm} < 24 \text{ dBm}$

So the 23.40 dBm limit applicable

For IEEE 802.11n-HT20/ac-VHT20/ax-HE20, the minimum 99% emission bandwidth is 18.358 MHz

$11 \text{ dBm} + 10\log_{10}(18.358) = 23.64 \text{ dBm} < 24 \text{ dBm}$

So the 23.64 dBm limit applicable

For IEEE 802.11 n-HT40/ac-VHT40/ax-HE40/ac-VHT80/ax-HE80, the minimum 99% emission bandwidth is

36.856 MHz

$11 \text{ dBm} + 10\log_{10}(36.856) = 26.67 \text{ dBm} > 24 \text{ dBm}$

So the 24 dBm limit applicable

EIRP:

For IEEE 802.11 a/n-HT20/ac-VHT20/ax-HE20, the minimum 99% emission bandwidth is 17.386 MHz

$17 \text{ dBm} + 10\log_{10}(17.386) = 29.40 \text{ dBm}$

$29.40 \text{ dBm} > 27 \text{ dBm}$

So the 27 dBm limit applicable

For IEEE 802.11 n-HT40/ac-VHT40/ax-HE40/ac-VHT80/ax-HE80, the minimum 99% emission bandwidth is 36.856 MHz

$17 \text{ dBm} + 10\log_{10}(36.856) = 32.67 \text{ dBm} > 27 \text{ dBm}$

So the 27 dBm limit applicable

FCC 47 CFR Part 15 Subpart E:

For IEEE 802.11 a/n/ac/ax, the minimum 26 dB emission bandwidth is 20.76 MHz

$11 \text{ dBm} + 10\log_{10}(20.76) = 24.17 \text{ dBm} > 24 \text{ dBm}$

So the 24 dBm limit applicable

5.6 PEAK POWER SPECTRAL DENSITY

Test Requirement: FCC 47 CFR Part 15 Subpart E Section 15.407 (a)(1)(2)(3)
RSS-247 Issue 4 Section 7.3.1.2 / 7.3.2.2/7.3.3.2/7.3.4.3

Test Method: KDB 789033 D02 v02r01 Section F

Limits: FCC 47 CFR Part 15 Subpart E

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 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.
 - (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.
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.

Limits: RSS-247 Issue 4

1. Frequency band 5150-5250 MHz

For OEM devices installed in vehicles, the maximum e.i.r.p. shall not exceed the lesser of:

- a. 30 mW; or
- b. $1.76 + 10 \log B$, dBm.

OEM devices installed in vehicles with a maximum e.i.r.p. greater than 15 mW shall implement TPC in order to have the capability to operate at least 3 dB below the maximum permitted e.i.r.p. of 30 mW. For all other devices the maximum e.i.r.p. spectral density shall not exceed 10dBm/MHz. The maximum e.i.r.p. shall not exceed the lesser of:

- a. 200 mW; or
- b. $10 + 10 \log B$, dBm.

2. Frequency band 5250-5350 MHz

For OEM devices installed in vehicles, the maximum e.i.r.p. shall not exceed the lesser of:

- a. 30 mW; or
- b. $1.76 + 10 \log B$, dBm.

OEM devices installed in vehicles with a maximum e.i.r.p. greater than 15 mW shall implement TPC in order to have the capability to operate at least 3 dB below the maximum permitted e.i.r.p. of 30 mW.

All other devices shall comply with the following:

- a. the maximum power spectral density shall not exceed 11 dBm/MHz and the maximum conducted output power shall not exceed the lesser of:
 - i. 250 mW; or
 - ii. $11 + 10 \log B$, dBm.
- b. the maximum e.i.r.p. shall not exceed the lesser of:
 - i. 1.0 W; or
 - ii. $17 + 10 \log B$, dBm.
- c. Devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

3. Frequency band 5470-5725 MHz

Equipment operating in the band 5470-5725 MHz band shall comply with the following power limits:

- a. the maximum conducted output power shall not exceed the lesser of:
 - i. 250 mW; or
 - ii. $11 + 10 \log B$, dBm.
- b. the maximum power spectral density shall not exceed 11 dBm/MHz.
- c. the maximum e.i.r.p. shall not exceed the lesser of:
 - i. 1.0 W; or
 - ii. $17 + 10 \log B$, dBm.
- d. equipment with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

4. Frequency band 5725-5850 MHz

Equipment operating in the band 5725-5850 shall comply with the following power limits:

- a. the maximum conducted output power shall not exceed 1 W; and
- b. the maximum output power spectral density shall not exceed 30dBm/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:

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

Using method SA-2

- a) Set span to encompass the entire emission bandwidth (EBW) of the signal.
- b) Set RBW = 1 MHz, Set VBW $\geq$ 3 RBW, Detector = RMS
- c) Sweep time = auto, trigger set to "free run".
- d) Trace average at least 100 traces in power averaging mode.

e) Record the max value and add 10 log (1/duty cycle)

2. For U-NII-3 band:

a) Set span to encompass the entire emission bandwidth (EBW) of the signal.

b) Set RBW = 500 kHz, Set VBW ≥ 3 RBW, Detector = RMS

c) Use the peak marker function to determine the maximum power level in any 500 kHz band segment within the fundamental EBW.

d) Sweep time = auto, trigger set to “free run”.

e) Trace average at least 100 traces in power averaging mode.

f) 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

Test Data:

Gain and the maximum output power limit.

RSS-247 Issue 4:

Frequency Band	Antenna Gain (dBi)	PSD Limits (dBm/MHz or dBm/500kHz)
U-NII-1	3.28	10.0
U-NII-2A	2.6	10.0
U-NII-2C	4.08	11.0
U-NII-3	4.26	30.0

FCC 47 CFR Part 15 Subpart E:

Frequency Band	Antenna Gain (dBi)	PSD Limits (dBm/MHz or dBm/500kHz)
U-NII-1	3.28	11.0
U-NII-2A	2.6	11.0
U-NII-2C	4.08	11.0
U-NII-3	4.26	30.0

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
RSS-247 Issue 4 Section 7.3/ 7.3.1.3 /7.3.2.3/7.3.2.3 /7.3.4.4
RSS-Gen Issue 6, Section 5.5, 6.2

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 (dB μ V/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 (dB μ V/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) RSS-247 Issue 4 Section 6.2.1.2	PK: -27 (dBm/MHz)	PK: 74 (dBμV/m)
FCC Part 15.407 (b)(2) RSS-247 Issue 4 Section 6.2.2.2	PK: -27 (dBm/MHz)	PK: 74 (dBμV/m)
FCC Part 15.407 (b)(3) RSS-247 Issue 4 Section 6.2.3.2	PK: -27 (dBm/MHz)	PK: 68.2 (dBμV/m)
FCC Part 15.407 (b)(4) RSS-247 Issue 4 Section 6.2.4.2	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.	

Test Setup: Refer to section 4.5.1 for details.

Test Procedures:

- 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.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The 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.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- 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:

- The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) at frequency below 1 GHz.
- 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.
- 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 ($10 \log(1/\text{duty cycle})$).
- The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10 Hz (Duty cycle ≥ 98 %) or ≥ 1/T (duty cycle is < 98%) for Average detection (AV) at frequency above 1 GHz.
- 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:

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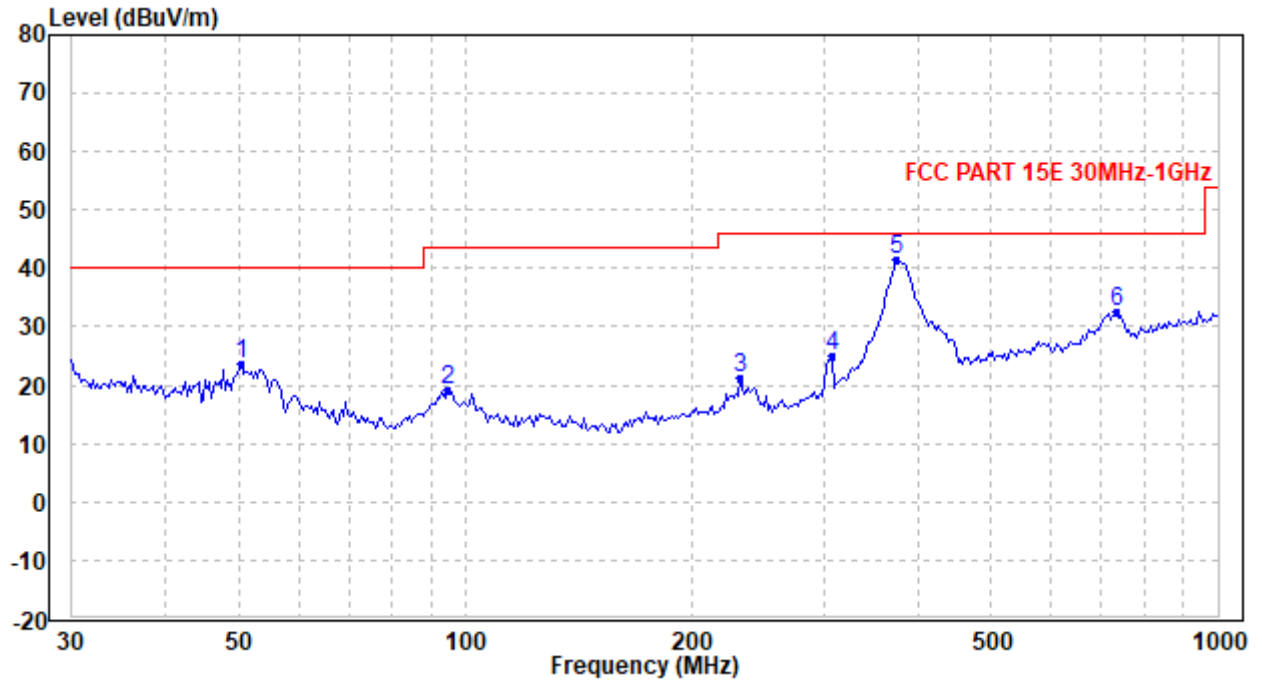
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Radiated Emission Test Data (9 KHz ~ 30 MHz):

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 (dBμV/m)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	50.461	37.77	-14.19	23.58	40.00	-16.42	QP
2	94.979	35.41	-16.16	19.25	43.50	-24.25	QP
3	231.853	32.27	-10.86	21.41	46.00	-24.59	QP
4	307.105	33.45	-8.41	25.04	46.00	-20.96	QP
5	373.886	47.14	-5.67	41.47	46.00	-4.53	QP
6	734.037	30.75	1.77	32.52	46.00	-13.48	QP

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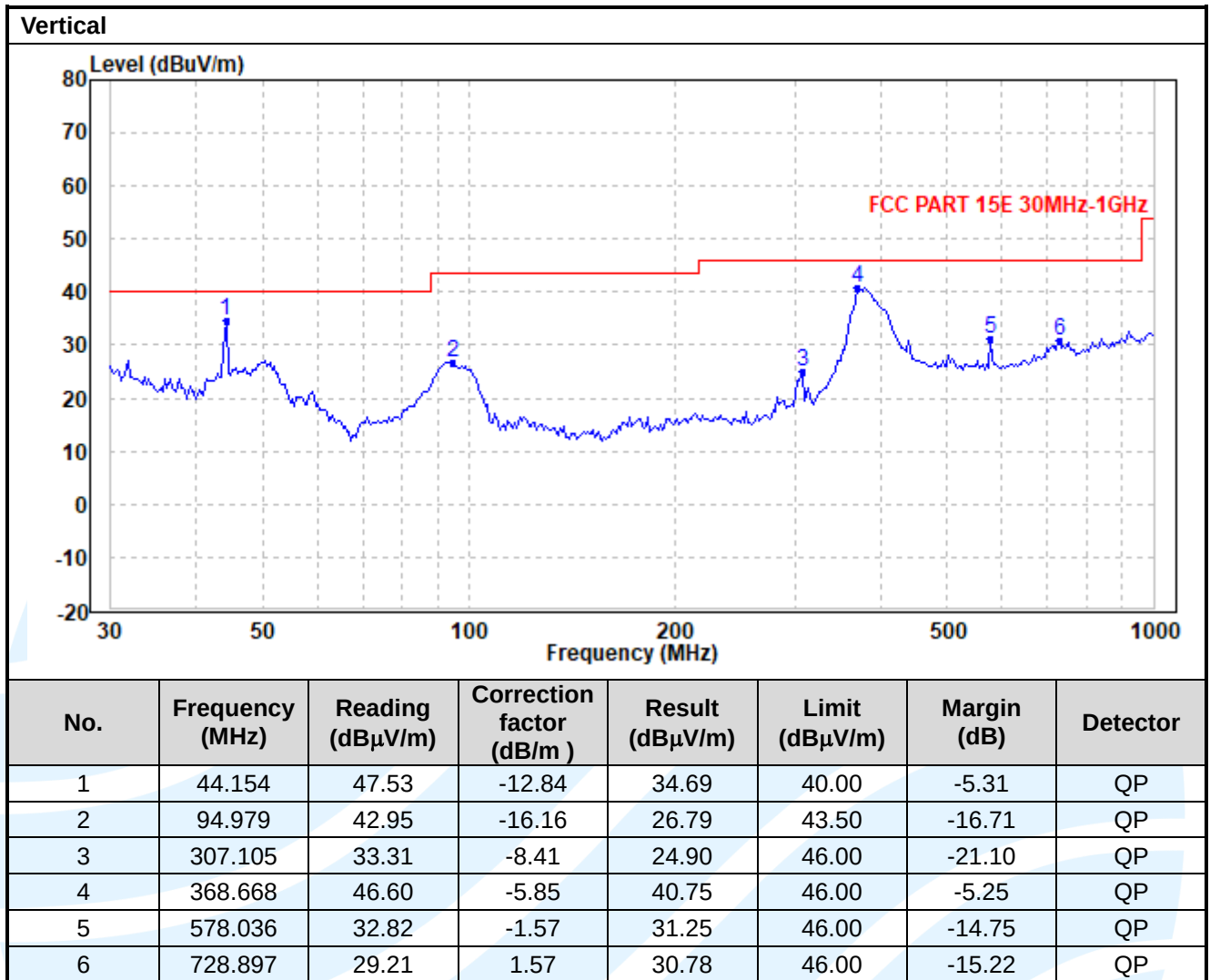
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Remark:

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 = Result – Limit

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
5G_A_5180 MHz 10360 MHz 15540 MHz								
1	10360	35.29	4.78	40.07	54.00	-13.93	Average	Horizontal
2	10360	49.73	4.78	54.51	74.00	-19.49	Peak	Horizontal
3	15540	30.97	8.63	39.60	54.00	-14.40	Average	Horizontal
4	15540	43.30	8.63	51.93	74.00	-22.07	Peak	Horizontal
5	10360	36.21	4.78	40.99	54.00	-13.01	Average	Vertical
6	10360	52.45	4.78	57.23	74.00	-16.77	Peak	Vertical
7	15540	31.10	8.63	39.73	54.00	-14.27	Average	Vertical
8	15540	43.63	8.63	52.26	74.00	-21.74	Peak	Vertical
5G_A_5220 MHz 10440 MHz 15660 MHz								
1	10440	35.57	4.88	40.45	54.00	-13.55	Average	Horizontal
2	10440	48.84	4.88	53.72	74.00	-20.28	Peak	Horizontal
3	15660	31.88	8.39	40.27	54.00	-13.73	Average	Horizontal
4	15660	44.98	8.39	53.37	74.00	-20.63	Peak	Horizontal
5	10440	36.76	4.88	41.64	54.00	-12.36	Average	Vertical
6	10440	50.70	4.88	55.58	74.00	-18.42	Peak	Vertical
7	15660	31.92	8.39	40.31	54.00	-13.69	Average	Vertical
8	15660	45.16	8.39	53.55	74.00	-20.45	Peak	Vertical
5G_A_5240 MHz 10480 MHz 15720 MHz								
1	10480	36.65	4.94	41.59	54.00	-12.41	Average	Horizontal
2	10480	50.53	4.94	55.47	74.00	-18.53	Peak	Horizontal
3	15720	31.64	8.26	39.90	54.00	-14.10	Average	Horizontal
4	15720	44.19	8.26	52.45	74.00	-21.55	Peak	Horizontal
5	10480	37.37	4.94	42.31	54.00	-11.69	Average	Vertical
6	10480	51.12	4.94	56.06	74.00	-17.94	Peak	Vertical
7	15720	31.57	8.26	39.83	54.00	-14.17	Average	Vertical
8	15720	44.83	8.26	53.09	74.00	-20.91	Peak	Vertical
5G_A_5260 MHz 10520 MHz 15780 MHz								
1	10520	34.53	4.95	39.48	54.00	-14.52	Average	Horizontal
2	10520	47.89	4.95	52.84	74.00	-21.16	Peak	Horizontal
3	15780	31.71	8.15	39.86	54.00	-14.14	Average	Horizontal
4	15780	44.05	8.15	52.20	74.00	-21.80	Peak	Horizontal
5	10520	34.53	4.95	39.48	54.00	-14.52	Average	Horizontal
6	10520	49.04	4.95	53.99	74.00	-20.01	Peak	Vertical
7	15780	31.71	8.15	39.86	54.00	-14.14	Average	Horizontal
8	15780	44.99	8.15	53.14	74.00	-20.86	Peak	Vertical
5G_A_5300 MHz 10600 MHz 15900 MHz								
1	10600	33.99	4.89	38.88	54.00	-15.12	Average	Horizontal
2	10600	47.53	4.89	52.42	74.00	-21.58	Peak	Horizontal
3	15900	30.34	7.90	38.24	54.00	-15.76	Average	Horizontal
4	15900	43.06	7.90	50.96	74.00	-23.04	Peak	Horizontal
5	10600	36.60	4.89	41.49	54.00	-12.51	Average	Vertical
6	10600	49.75	4.89	54.64	74.00	-19.36	Peak	Vertical
7	15900	30.34	7.90	38.24	54.00	-15.76	Average	Vertical
8	15900	43.24	7.90	51.14	74.00	-22.86	Peak	Vertical
5G_A_5320 MHz 10640 MHz 15960 MHz								
1	10640	33.52	4.85	38.37	54.00	-15.63	Average	Horizontal
2	10640	48.07	4.85	52.92	74.00	-21.08	Peak	Horizontal
3	15960	30.46	7.78	38.24	54.00	-15.76	Average	Horizontal
4	15960	42.88	7.78	50.66	74.00	-23.34	Peak	Horizontal
5	10640	33.52	4.85	38.37	54.00	-15.63	Average	Horizontal
6	10640	49.82	4.85	54.67	74.00	-19.33	Peak	Vertical
7	15960	30.46	7.78	38.24	54.00	-15.76	Average	Horizontal
8	15960	43.56	7.78	51.34	74.00	-22.66	Peak	Vertical

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5G_A_5500 MHz		11000 MHz		16500 MHz					
1	11000	35.24	4.57	39.81	54.00	-14.19	Average	Horizontal	
2	11000	50.45	4.57	55.02	74.00	-18.98	Peak	Horizontal	
3	16500	31.78	7.91	39.69	54.00	-14.31	Average	Horizontal	
4	16500	44.76	7.91	52.67	74.00	-21.33	Peak	Horizontal	
5	11000	37.42	4.57	41.99	54.00	-12.01	Average	Vertical	
6	11000	53.38	4.57	57.95	74.00	-16.05	Peak	Vertical	
7	16500	31.63	7.91	39.54	54.00	-14.46	Average	Vertical	
8	16500	44.59	7.91	52.50	74.00	-21.50	Peak	Vertical	
5G_A_5600 MHz		11200 MHz		16800 MHz					
1	11200	36.88	4.71	41.59	54.00	-12.41	Average	Horizontal	
2	11200	50.79	4.71	55.50	74.00	-18.50	Peak	Horizontal	
3	16800	30.87	7.98	38.85	54.00	-15.15	Average	Horizontal	
4	16800	43.22	7.98	51.20	74.00	-22.80	Peak	Horizontal	
5	11200	37.31	4.71	42.02	54.00	-11.98	Average	Vertical	
6	11200	52.08	4.71	56.79	74.00	-17.21	Peak	Vertical	
7	16800	30.87	7.98	38.85	54.00	-15.15	Average	Vertical	
8	16800	43.91	7.98	51.89	74.00	-22.11	Peak	Vertical	
5G_A_5700 MHz		11400 MHz		17100 MHz					
1	11400	35.55	4.85	40.40	54.00	-13.60	Average	Horizontal	
2	11400	50.00	4.85	54.85	74.00	-19.15	Peak	Horizontal	
3	17100	31.29	8.22	39.51	54.00	-14.49	Average	Horizontal	
4	17100	44.09	8.22	52.31	74.00	-21.69	Peak	Horizontal	
5	11400	36.70	4.85	41.55	54.00	-12.45	Average	Vertical	
6	11400	51.62	4.85	56.47	74.00	-17.53	Peak	Vertical	
7	17100	31.21	8.22	39.43	54.00	-14.57	Average	Vertical	
8	17100	43.97	8.22	52.19	74.00	-21.81	Peak	Vertical	
5G_A_5720 MHz		11440 MHz		17160 MHz					
1	11440	36.29	4.88	41.17	54.00	-12.83	Average	Horizontal	
2	11440	50.16	4.88	55.04	74.00	-18.96	Peak	Horizontal	
3	17160	30.76	8.34	39.10	54.00	-14.90	Average	Horizontal	
4	17160	44.23	8.34	52.57	74.00	-21.43	Peak	Horizontal	
5	11440	35.81	4.88	40.69	54.00	-13.31	Average	Vertical	
6	11440	52.40	4.88	57.28	74.00	-16.72	Peak	Vertical	
7	17160	30.84	8.34	39.18	54.00	-14.82	Average	Vertical	
8	17160	43.39	8.34	51.73	74.00	-22.27	Peak	Vertical	
5G_A_5745 MHz		11490 MHz		17235 MHz					
1	11490	32.77	4.91	37.68	54.00	-16.32	Average	Horizontal	
2	11490	45.31	4.91	50.22	74.00	-23.78	Peak	Horizontal	
3	17235	31.14	8.49	39.63	54.00	-14.37	Average	Horizontal	
4	17235	43.45	8.49	51.94	74.00	-22.06	Peak	Horizontal	
5	11490	32.84	4.91	37.75	54.00	-16.25	Average	Vertical	
6	11490	46.04	4.91	50.95	74.00	-23.05	Peak	Vertical	
7	17235	31.14	8.49	39.63	54.00	-14.37	Average	Vertical	
8	17235	43.33	8.49	51.82	74.00	-22.18	Peak	Vertical	
5G_A_5785 MHz		11570 MHz		17355 MHz					
1	11570	38.74	5.01	43.75	54.00	-10.25	Average	Horizontal	
2	11570	49.66	5.01	54.67	74.00	-19.33	Peak	Horizontal	
3	17355	30.82	8.72	39.54	54.00	-14.46	Average	Horizontal	
4	17355	43.37	8.72	52.09	74.00	-21.91	Peak	Horizontal	
5	11570	37.32	5.01	42.33	54.00	-11.67	Average	Vertical	
6	11570	51.67	5.01	56.68	74.00	-17.32	Peak	Vertical	
7	17355	30.86	8.72	39.58	54.00	-14.42	Average	Vertical	
8	17355	43.02	8.72	51.74	74.00	-22.26	Peak	Vertical	
5G_A_5825 MHz		11650 MHz		17475 MHz					
1	11650	36.40	5.13	41.53	54.00	-12.47	Average	Horizontal	
2	11650	48.36	5.13	53.49	74.00	-20.51	Peak	Horizontal	

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3	17475	29.50	8.97	38.47	54.00	-15.53	Average	Horizontal
4	17475	41.84	8.97	50.81	74.00	-23.19	Peak	Horizontal
5	11650	36.55	5.13	41.68	54.00	-12.32	Average	Vertical
6	11650	52.39	5.13	57.52	74.00	-16.48	Peak	Vertical
7	17475	29.41	8.97	38.38	54.00	-15.62	Average	Vertical
8	17475	42.03	8.97	51.00	74.00	-23.00	Peak	Vertical
5G_N20_5180 MHz 10360 MHz 15540 MHz								
1	10360	35.32	4.78	40.10	54.00	-13.90	Average	Horizontal
2	10360	49.91	4.78	54.69	74.00	-19.31	Peak	Horizontal
3	15540	31.06	8.63	39.69	54.00	-14.31	Average	Horizontal
4	15540	43.58	8.63	52.21	74.00	-21.79	Peak	Horizontal
5	10360	36.28	4.78	41.06	54.00	-12.94	Average	Vertical
6	10360	51.87	4.78	56.65	74.00	-17.35	Peak	Vertical
7	15540	30.93	8.63	39.56	54.00	-14.44	Average	Vertical
8	15540	43.73	8.63	52.36	74.00	-21.64	Peak	Vertical
5G_N20_5220 MHz 10440 MHz 15660 MHz								
1	10440	35.78	4.88	40.66	54.00	-13.34	Average	Vertical
2	10440	51.53	4.88	56.41	74.00	-17.59	Peak	Vertical
3	15660	31.88	8.39	40.27	54.00	-13.73	Average	Vertical
4	15660	45.08	8.39	53.47	74.00	-20.53	Peak	Vertical
5	10440	35.78	4.88	40.66	54.00	-13.34	Average	Vertical
6	10440	50.15	4.88	55.03	74.00	-18.97	Peak	Vertical
7	15660	31.88	8.39	40.27	54.00	-13.73	Average	Vertical
8	15660	44.52	8.39	52.91	74.00	-21.09	Peak	Vertical
5G_N20_5240 MHz 10480 MHz 15720 MHz								
1	10480	34.40	4.94	39.34	54.00	-14.66	Average	Vertical
2	10480	48.25	4.94	53.19	74.00	-20.81	Peak	Vertical
3	15720	31.64	8.26	39.90	54.00	-14.10	Average	Vertical
4	15720	44.19	8.26	52.45	74.00	-21.55	Peak	Vertical
5	10480	35.32	4.94	40.26	54.00	-13.74	Average	Vertical
6	10480	50.70	4.94	55.64	74.00	-18.36	Peak	Vertical
7	15720	31.60	8.26	39.86	54.00	-14.14	Average	Vertical
8	15720	43.48	8.26	51.74	74.00	-22.26	Peak	Vertical
5G_N20_5260 MHz 10520 MHz 15780 MHz								
1	10520	36.56	4.95	41.51	54.00	-12.49	Average	Horizontal
2	10520	50.08	4.95	55.03	74.00	-18.97	Peak	Horizontal
3	15780	31.64	8.15	39.79	54.00	-14.21	Average	Horizontal
4	15780	43.79	8.15	51.94	74.00	-22.06	Peak	Horizontal
5	10520	36.85	4.95	41.80	54.00	-12.20	Average	Vertical
6	10520	51.78	4.95	56.73	74.00	-17.27	Peak	Vertical
7	15780	31.75	8.15	39.90	54.00	-14.10	Average	Vertical
8	15780	44.12	8.15	52.27	74.00	-21.73	Peak	Vertical
5G_N20_5300 MHz 10600 MHz 15900 MHz								
1	10600	35.96	4.89	40.85	54.00	-13.15	Average	Horizontal
2	10600	51.00	4.89	55.89	74.00	-18.11	Peak	Horizontal
3	15900	30.34	7.90	38.24	54.00	-15.76	Average	Horizontal
4	15900	43.11	7.90	51.01	74.00	-22.99	Peak	Horizontal
5	10600	36.44	4.89	41.33	54.00	-12.67	Average	Vertical
6	10600	50.60	4.89	55.49	74.00	-18.51	Peak	Vertical
7	15900	30.38	7.90	38.28	54.00	-15.72	Average	Vertical
8	15900	42.94	7.90	50.84	74.00	-23.16	Peak	Vertical
5G_N20_5320 MHz 10640 MHz 15960 MHz								
1	10640	33.52	4.85	38.37	54.00	-15.63	Average	Horizontal
2	10640	50.55	4.85	55.40	74.00	-18.60	Peak	Horizontal
3	15960	30.46	7.78	38.24	54.00	-15.76	Average	Horizontal
4	15960	42.61	7.78	50.39	74.00	-23.61	Peak	Horizontal
5	10640	34.20	4.85	39.05	54.00	-14.95	Average	Vertical

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6	10640	50.46	4.85	55.31	74.00	-18.69	Peak	Vertical
7	15960	30.46	7.78	38.24	54.00	-15.76	Average	Vertical
8	15960	44.29	7.78	52.07	74.00	-21.93	Peak	Vertical
5G_N20_5500 MHz 11000 MHz 16500 MHz								
1	11000	38.37	4.57	42.94	54.00	-11.06	Average	Horizontal
2	11000	50.77	4.57	55.34	74.00	-18.66	Peak	Horizontal
3	16500	31.71	7.91	39.62	54.00	-14.38	Average	Horizontal
4	16500	44.27	7.91	52.18	74.00	-21.82	Peak	Horizontal
5	11000	37.61	4.57	42.18	54.00	-11.82	Average	Vertical
6	11000	54.87	4.57	59.44	74.00	-14.56	Peak	Vertical
7	16500	31.67	7.91	39.58	54.00	-14.42	Average	Vertical
8	16500	44.16	7.91	52.07	74.00	-21.93	Peak	Vertical
5G_N20_5600 MHz 11200 MHz 16800 MHz								
1	11200	33.91	4.71	38.62	54.00	-15.38	Average	Horizontal
2	11200	47.78	4.71	52.49	74.00	-21.51	Peak	Horizontal
3	16800	31.00	7.98	38.98	54.00	-15.02	Average	Horizontal
4	16800	43.37	7.98	51.35	74.00	-22.65	Peak	Horizontal
5	11200	34.31	4.71	39.02	54.00	-14.98	Average	Vertical
6	11200	49.09	4.71	53.80	74.00	-20.20	Peak	Vertical
7	16800	30.83	7.98	38.81	54.00	-15.19	Average	Vertical
8	16800	43.76	7.98	51.74	74.00	-22.26	Peak	Vertical
5G_N20_5700 MHz 11400 MHz 17100 MHz								
1	11400	32.52	4.85	37.37	54.00	-16.63	Average	Horizontal
2	11400	45.83	4.85	50.68	74.00	-23.32	Peak	Horizontal
3	17100	31.25	8.22	39.47	54.00	-14.53	Average	Horizontal
4	17100	44.08	8.22	52.30	74.00	-21.70	Peak	Horizontal
5	11400	33.91	4.85	38.76	54.00	-15.24	Average	Vertical
6	11400	47.82	4.85	52.67	74.00	-21.33	Peak	Vertical
7	17100	31.21	8.22	39.43	54.00	-14.57	Average	Vertical
8	17100	44.11	8.22	52.33	74.00	-21.67	Peak	Vertical
5G_N20_5720 MHz 11440 MHz 17160 MHz								
1	11440	35.13	4.88	40.01	54.00	-13.99	Average	Horizontal
2	11440	47.27	4.88	52.15	74.00	-21.85	Peak	Horizontal
3	17160	30.80	8.34	39.14	54.00	-14.86	Average	Horizontal
4	17160	43.83	8.34	52.17	74.00	-21.83	Peak	Horizontal
5	11440	34.66	4.88	39.54	54.00	-14.46	Average	Vertical
6	11440	49.83	4.88	54.71	74.00	-19.29	Peak	Vertical
7	17160	30.72	8.34	39.06	54.00	-14.94	Average	Vertical
8	17160	44.19	8.34	52.53	74.00	-21.47	Peak	Vertical
5G_N20_5745 MHz 11490 MHz 17235 MHz								
1	11490	36.61	4.91	41.52	54.00	-12.48	Average	Horizontal
2	11490	50.18	4.91	55.09	74.00	-18.91	Peak	Horizontal
3	17235	31.06	8.49	39.55	54.00	-14.45	Average	Horizontal
4	17235	43.18	8.49	51.67	74.00	-22.33	Peak	Horizontal
5	11490	35.97	4.91	40.88	54.00	-13.12	Average	Vertical
6	11490	50.30	4.91	55.21	74.00	-18.79	Peak	Vertical
7	17235	31.01	8.49	39.50	54.00	-14.50	Average	Vertical
8	17235	43.32	8.49	51.81	74.00	-22.19	Peak	Vertical
5G_N20_5785 MHz 11570 MHz 17355 MHz								
1	11570	32.50	5.01	37.51	54.00	-16.49	Average	Horizontal
2	11570	45.70	5.01	50.71	74.00	-23.29	Peak	Horizontal
3	17355	30.77	8.72	39.49	54.00	-14.51	Average	Horizontal
4	17355	43.40	8.72	52.12	74.00	-21.88	Peak	Horizontal
5	11570	32.94	5.01	37.95	54.00	-16.05	Average	Vertical
6	11570	46.74	5.01	51.75	74.00	-22.25	Peak	Vertical
7	17355	30.77	8.72	39.49	54.00	-14.51	Average	Vertical
8	17355	42.87	8.72	51.59	74.00	-22.41	Peak	Vertical

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5G_N20_5825 MHz			11650 MHz		17475 MHz				
1	11650	33.18	5.13		38.31	54.00	-15.69	Average	Horizontal
2	11650	45.33	5.13		50.46	74.00	-23.54	Peak	Horizontal
3	17475	29.50	8.97		38.47	54.00	-15.53	Average	Horizontal
4	17475	43.16	8.97		52.13	74.00	-21.87	Peak	Horizontal
5	11650	33.52	5.13		38.65	54.00	-15.35	Average	Vertical
6	11650	46.41	5.13		51.54	74.00	-22.46	Peak	Vertical
7	17475	29.41	8.97		38.38	54.00	-15.62	Average	Vertical
8	17475	42.54	8.97		51.51	74.00	-22.49	Peak	Vertical
5G_N40_5190 MHz			10380 MHz		15570 MHz				
1	10380	35.42	4.80		40.22	54.00	-13.78	Average	Horizontal
2	10380	49.47	4.80		54.27	74.00	-19.73	Peak	Horizontal
3	15570	31.00	8.56		39.56	54.00	-14.44	Average	Horizontal
4	15570	44.38	8.56		52.94	74.00	-21.06	Peak	Horizontal
5	10380	36.26	4.80		41.06	54.00	-12.94	Average	Vertical
6	10380	51.31	4.80		56.11	74.00	-17.89	Peak	Vertical
7	15570	31.09	8.56		39.65	54.00	-14.35	Average	Vertical
8	15570	43.62	8.56		52.18	74.00	-21.82	Peak	Vertical
5G_N40_5230 MHz			10460 MHz		15690 MHz				
1	10460	33.83	4.92		38.75	54.00	-15.25	Average	Horizontal
2	10460	45.85	4.92		50.77	74.00	-23.23	Peak	Horizontal
3	15690	31.92	8.32		40.24	54.00	-13.76	Average	Horizontal
4	15690	44.27	8.32		52.59	74.00	-21.41	Peak	Horizontal
5	10460	34.09	4.92		39.01	54.00	-14.99	Average	Vertical
6	10460	46.02	4.92		50.94	74.00	-23.06	Peak	Vertical
7	15690	31.95	8.32		40.27	54.00	-13.73	Average	Vertical
8	15690	44.11	8.32		52.43	74.00	-21.57	Peak	Vertical
5G_N40_5270 MHz			10540 MHz		15810 MHz				
1	10540	33.30	4.93		38.23	54.00	-15.77	Average	Horizontal
2	10540	46.22	4.93		51.15	74.00	-22.85	Peak	Horizontal
3	15810	30.96	8.09		39.05	54.00	-14.95	Average	Horizontal
4	15810	43.33	8.09		51.42	74.00	-22.58	Peak	Horizontal
5	10540	33.37	4.93		38.30	54.00	-15.70	Average	Vertical
6	10540	45.89	4.93		50.82	74.00	-23.18	Peak	Vertical
7	15810	31.00	8.09		39.09	54.00	-14.91	Average	Vertical
8	15810	43.52	8.09		51.61	74.00	-22.39	Peak	Vertical
5G_N40_5310 MHz			10620 MHz		15930 MHz				
1	10620	32.73	4.87		37.60	54.00	-16.40	Average	Horizontal
2	10620	45.36	4.87		50.23	74.00	-23.77	Peak	Horizontal
3	15930	30.34	7.85		38.19	54.00	-15.81	Average	Horizontal
4	15930	42.85	7.85		50.70	74.00	-23.30	Peak	Horizontal
5	10620	32.96	4.87		37.83	54.00	-16.17	Average	Vertical
6	10620	44.14	4.87		49.01	74.00	-24.99	Peak	Vertical
7	15930	30.39	7.85		38.24	54.00	-15.76	Average	Vertical
8	15930	43.47	7.85		51.32	74.00	-22.68	Peak	Vertical
5G_N40_5510 MHz			11020 MHz		16530 MHz				
1	11020	33.45	4.59		38.04	54.00	-15.96	Average	Horizontal
2	11020	46.67	4.59		51.26	74.00	-22.74	Peak	Horizontal
3	16530	31.62	7.92		39.54	54.00	-14.46	Average	Horizontal
4	16530	44.17	7.92		52.09	74.00	-21.91	Peak	Horizontal
5	11020	34.02	4.59		38.61	54.00	-15.39	Average	Vertical
6	11020	46.35	4.59		50.94	74.00	-23.06	Peak	Vertical
7	16530	31.66	7.92		39.58	54.00	-14.42	Average	Vertical
8	16530	44.30	7.92		52.22	74.00	-21.78	Peak	Vertical
5G_N40_5550 MHz			11100 MHz		16650 MHz				
1	11100	37.27	4.64		41.91	54.00	-12.09	Average	Horizontal
2	11100	51.79	4.64		56.43	74.00	-17.57	Peak	Horizontal

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3	16650	30.60	7.94	38.54	54.00	-15.46	Average	Horizontal
4	16650	42.71	7.94	50.65	74.00	-23.35	Peak	Horizontal
5	11100	33.40	4.64	38.04	54.00	-15.96	Average	Vertical
6	11100	51.85	4.64	56.49	74.00	-17.51	Peak	Vertical
7	16650	30.72	7.94	38.66	54.00	-15.34	Average	Vertical
8	16650	43.70	7.94	51.64	74.00	-22.36	Peak	Vertical
5G_N40_5670 MHz 11340 MHz 17010 MHz								
1	11340	32.20	4.81	37.01	54.00	-16.99	Average	Horizontal
2	11340	44.38	4.81	49.19	74.00	-24.81	Peak	Horizontal
3	17010	31.18	8.04	39.22	54.00	-14.78	Average	Horizontal
4	17010	43.98	8.04	52.02	74.00	-21.98	Peak	Horizontal
5	11340	32.48	4.81	37.29	54.00	-16.71	Average	Vertical
6	11340	44.41	4.81	49.22	74.00	-24.78	Peak	Vertical
7	17010	31.14	8.04	39.18	54.00	-14.82	Average	Vertical
8	17010	44.22	8.04	52.26	74.00	-21.74	Peak	Vertical
5G_N40_5710 MHz 11420 MHz 17130 MHz								
1	11420	31.69	4.86	36.55	54.00	-17.45	Average	Horizontal
2	11420	44.20	4.86	49.06	74.00	-24.94	Peak	Horizontal
3	17130	31.19	8.28	39.47	54.00	-14.53	Average	Horizontal
4	17130	44.68	8.28	52.96	74.00	-21.04	Peak	Horizontal
5	11420	31.57	4.86	36.43	54.00	-17.57	Average	Vertical
6	11420	43.82	4.86	48.68	74.00	-25.32	Peak	Vertical
7	17130	31.19	8.28	39.47	54.00	-14.53	Average	Vertical
8	17130	43.58	8.28	51.86	74.00	-22.14	Peak	Vertical
5G_N40_5755 MHz 11510 MHz 17265 MHz								
1	11510	32.69	4.93	37.62	54.00	-16.38	Average	Horizontal
2	11510	45.46	4.93	50.39	74.00	-23.61	Peak	Horizontal
3	17265	30.96	8.54	39.50	54.00	-14.50	Average	Horizontal
4	17265	43.72	8.54	52.26	74.00	-21.74	Peak	Horizontal
5	11510	32.92	4.93	37.85	54.00	-16.15	Average	Vertical
6	11510	44.25	4.93	49.18	74.00	-24.82	Peak	Vertical
7	17265	30.96	8.54	39.50	54.00	-14.50	Average	Vertical
8	17265	43.53	8.54	52.07	74.00	-21.93	Peak	Vertical
5G_N40_5795 MHz 11590 MHz 17385 MHz								
1	11590	32.43	5.05	37.48	54.00	-16.52	Average	Horizontal
2	11590	44.17	5.05	49.22	74.00	-24.78	Peak	Horizontal
3	17385	30.83	8.79	39.62	54.00	-14.38	Average	Horizontal
4	17385	42.89	8.79	51.68	74.00	-22.32	Peak	Horizontal
5	11590	32.93	5.05	37.98	54.00	-16.02	Average	Vertical
6	11590	44.98	5.05	50.03	74.00	-23.97	Peak	Vertical
7	17385	30.87	8.79	39.66	54.00	-14.34	Average	Vertical
8	17385	43.18	8.79	51.97	74.00	-22.03	Peak	Vertical
5G_AC80_5210 MHz 10420 MHz 15630 MHz								
1	10420	33.71	4.86	38.57	54.00	-15.43	Average	Horizontal
2	10420	45.83	4.86	50.69	74.00	-23.31	Peak	Horizontal
3	15630	31.79	8.45	40.24	54.00	-13.76	Average	Horizontal
4	15630	44.39	8.45	52.84	74.00	-21.16	Peak	Horizontal
5	10420	33.74	4.86	38.60	54.00	-15.40	Average	Vertical
6	10420	46.16	4.86	51.02	74.00	-22.98	Peak	Vertical
7	15630	31.86	8.45	40.31	54.00	-13.69	Average	Vertical
8	15630	44.62	8.45	53.07	74.00	-20.93	Peak	Vertical
5G_AC80_5290 MHz 10580 MHz 15870 MHz								
1	10580	33.04	4.91	37.95	54.00	-16.05	Average	Horizontal
2	10580	45.10	4.91	50.01	74.00	-23.99	Peak	Horizontal
3	15870	31.13	7.96	39.09	54.00	-14.91	Average	Horizontal
4	15870	43.23	7.96	51.19	74.00	-22.81	Peak	Horizontal
5	10580	33.17	4.91	38.08	54.00	-15.92	Average	Vertical

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6	10580	47.06	4.91	51.97	74.00	-22.03	Peak	Vertical
7	15870	31.01	7.96	38.97	54.00	-15.03	Average	Vertical
8	15870	43.15	7.96	51.11	74.00	-22.89	Peak	Vertical
5G_AC80_5530 MHz 11060 MHz 16590 MHz								
1	11060	36.58	4.60	41.18	54.00	-12.82	Average	Horizontal
2	11060	49.74	4.60	54.34	74.00	-19.66	Peak	Horizontal
3	16590	30.16	7.92	38.08	54.00	-15.92	Average	Horizontal
4	16590	43.35	7.92	51.27	74.00	-22.73	Peak	Horizontal
5	11060	36.93	4.60	41.53	54.00	-12.47	Average	Vertical
6	11060	48.97	4.60	53.57	74.00	-20.43	Peak	Vertical
7	16590	30.16	7.92	38.08	54.00	-15.92	Average	Vertical
8	16590	42.91	7.92	50.83	74.00	-23.17	Peak	Vertical
5G_AC80_5610 MHz 11220 MHz 16830 MHz								
1	11220	31.79	4.73	36.52	54.00	-17.48	Average	Horizontal
2	11220	44.61	4.73	49.34	74.00	-24.66	Peak	Horizontal
3	16830	30.82	7.99	38.81	54.00	-15.19	Average	Horizontal
4	16830	43.43	7.99	51.42	74.00	-22.58	Peak	Horizontal
5	11220	31.90	4.73	36.63	54.00	-17.37	Average	Vertical
6	11220	43.96	4.73	48.69	74.00	-25.31	Peak	Vertical
7	16830	30.86	7.99	38.85	54.00	-15.15	Average	Vertical
8	16830	42.97	7.99	50.96	74.00	-23.04	Peak	Vertical
5G_AC80_5690 MHz 11380 MHz 17070 MHz								
1	11380	31.75	4.83	36.58	54.00	-17.42	Average	Horizontal
2	11380	44.25	4.83	49.08	74.00	-24.92	Peak	Horizontal
3	17070	31.24	8.15	39.39	54.00	-14.61	Average	Horizontal
4	17070	43.64	8.15	51.79	74.00	-22.21	Peak	Horizontal
5	11380	31.87	4.83	36.70	54.00	-17.30	Average	Vertical
6	11380	44.75	4.83	49.58	74.00	-24.42	Peak	Vertical
7	17070	31.32	8.15	39.47	54.00	-14.53	Average	Vertical
8	17070	43.71	8.15	51.86	74.00	-22.14	Peak	Vertical
5G_AC80_5775 MHz 11550 MHz 17325 MHz								
1	11550	32.28	4.99	37.27	54.00	-16.73	Average	Horizontal
2	11550	45.10	4.99	50.09	74.00	-23.91	Peak	Horizontal
3	17325	30.89	8.66	39.55	54.00	-14.45	Average	Horizontal
4	17325	43.31	8.66	51.97	74.00	-22.03	Peak	Horizontal
5	11550	32.28	4.99	37.27	54.00	-16.73	Average	Vertical
6	11550	45.05	4.99	50.04	74.00	-23.96	Peak	Vertical
7	17325	30.80	8.66	39.46	54.00	-14.54	Average	Vertical
8	17325	43.69	8.66	52.35	74.00	-21.65	Peak	Vertical
5G_AX20_5180 MHz 10360 MHz 15540 MHz								
1	10360	35.32	4.78	40.10	54.00	-13.90	Average	Horizontal
2	10360	49.88	4.78	54.66	74.00	-19.34	Peak	Horizontal
3	15540	31.06	8.63	39.69	54.00	-14.31	Average	Horizontal
4	15540	43.53	8.63	52.16	74.00	-21.84	Peak	Horizontal
5	10360	36.57	4.78	41.35	54.00	-12.65	Average	Vertical
6	10360	52.00	4.78	56.78	74.00	-17.22	Peak	Vertical
7	15540	31.06	8.63	39.69	54.00	-14.31	Average	Vertical
8	15540	44.08	8.63	52.71	74.00	-21.29	Peak	Vertical
5G_AX20_5220 MHz 10440 MHz 15660 MHz								
1	10440	35.97	4.88	40.85	54.00	-13.15	Average	Horizontal
2	10440	49.41	4.88	54.29	74.00	-19.71	Peak	Horizontal
3	15660	31.88	8.39	40.27	54.00	-13.73	Average	Horizontal
4	15660	43.97	8.39	52.36	74.00	-21.64	Peak	Horizontal
5	10440	36.87	4.88	41.75	54.00	-12.25	Average	Vertical
6	10440	51.57	4.88	56.45	74.00	-17.55	Peak	Vertical
7	15660	31.88	8.39	40.27	54.00	-13.73	Average	Vertical
8	15660	44.38	8.39	52.77	74.00	-21.23	Peak	Vertical

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5G_AX20_5240 MHz			10480 MHz		15720 MHz				
1	10480	34.65	4.94		39.59	54.00	-14.41	Average	Horizontal
2	10480	48.95	4.94		53.89	74.00	-20.11	Peak	Horizontal
3	15720	31.60	8.26		39.86	54.00	-14.14	Average	Horizontal
4	15720	43.50	8.26		51.76	74.00	-22.24	Peak	Horizontal
5	10480	35.19	4.94		40.13	54.00	-13.87	Average	Vertical
6	10480	50.59	4.94		55.53	74.00	-18.47	Peak	Vertical
7	15720	31.64	8.26		39.90	54.00	-14.10	Average	Vertical
8	15720	43.93	8.26		52.19	74.00	-21.81	Peak	Vertical
5G_AX20_5260 MHz			10520 MHz		15780 MHz				
1	10520	34.47	4.95		39.42	54.00	-14.58	Average	Horizontal
2	10520	50.31	4.95		55.26	74.00	-18.74	Peak	Horizontal
3	15780	31.68	8.15		39.83	54.00	-14.17	Average	Horizontal
4	15780	45.03	8.15		53.18	74.00	-20.82	Peak	Horizontal
5	10520	35.16	4.95		40.11	54.00	-13.89	Average	Vertical
6	10520	51.46	4.95		56.41	74.00	-17.59	Peak	Vertical
7	15780	31.71	8.15		39.86	54.00	-14.14	Average	Vertical
8	15780	44.11	8.15		52.26	74.00	-21.74	Peak	Vertical
5G_AX20_5300 MHz			10600 MHz		15900 MHz				
1	10600	33.93	4.89		38.82	54.00	-15.18	Average	Horizontal
2	10600	47.39	4.89		52.28	74.00	-21.72	Peak	Horizontal
3	15900	30.38	7.90		38.28	54.00	-15.72	Average	Horizontal
4	15900	43.24	7.90		51.14	74.00	-22.86	Peak	Horizontal
5	10600	34.44	4.89		39.33	54.00	-14.67	Average	Vertical
6	10600	48.79	4.89		53.68	74.00	-20.32	Peak	Vertical
7	15900	30.29	7.90		38.19	54.00	-15.81	Average	Vertical
8	15900	43.90	7.90		51.80	74.00	-22.20	Peak	Vertical
5G_AX20_5320 MHz			10640 MHz		15960 MHz				
1	10640	33.82	4.85		38.67	54.00	-15.33	Average	Horizontal
2	10640	48.87	4.85		53.72	74.00	-20.28	Peak	Horizontal
3	15960	30.46	7.78		38.24	54.00	-15.76	Average	Horizontal
4	15960	44.10	7.78		51.88	74.00	-22.12	Peak	Horizontal
5	10640	34.25	4.85		39.10	54.00	-14.90	Average	Vertical
6	10640	47.77	4.85		52.62	74.00	-21.38	Peak	Vertical
7	15960	30.50	7.78		38.28	54.00	-15.72	Average	Vertical
8	15960	43.01	7.78		50.79	74.00	-23.21	Peak	Vertical
5G_AX20_5500 MHz			11000 MHz		16500 MHz				
1	11000	35.19	4.57		39.76	54.00	-14.24	Average	Horizontal
2	11000	48.67	4.57		53.24	74.00	-20.76	Peak	Horizontal
3	16500	31.63	7.91		39.54	54.00	-14.46	Average	Horizontal
4	16500	44.63	7.91		52.54	74.00	-21.46	Peak	Horizontal
5	11000	36.90	4.57		41.47	54.00	-12.53	Average	Vertical
6	11000	52.67	4.57		57.24	74.00	-16.76	Peak	Vertical
7	16500	31.63	7.91		39.54	54.00	-14.46	Average	Vertical
8	16500	44.20	7.91		52.11	74.00	-21.89	Peak	Vertical
5G_AX20_5600 MHz			11200 MHz		16800 MHz				
1	11200	36.00	4.71		40.71	54.00	-13.29	Average	Horizontal
2	11200	49.05	4.71		53.76	74.00	-20.24	Peak	Horizontal
3	16800	30.91	7.98		38.89	54.00	-15.11	Average	Horizontal
4	16800	43.53	7.98		51.51	74.00	-22.49	Peak	Horizontal
5	11200	36.09	4.71		40.80	54.00	-13.20	Average	Vertical
6	11200	51.02	4.71		55.73	74.00	-18.27	Peak	Vertical
7	16800	30.87	7.98		38.85	54.00	-15.15	Average	Vertical
8	16800	43.38	7.98		51.36	74.00	-22.64	Peak	Vertical
5G_AX20_5700 MHz			11400 MHz		17100 MHz				
1	11400	34.66	4.85		39.51	54.00	-14.49	Average	Horizontal
2	11400	48.02	4.85		52.87	74.00	-21.13	Peak	Horizontal

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3	17100	31.17	8.22	39.39	54.00	-14.61	Average	Horizontal
4	17100	44.53	8.22	52.75	74.00	-21.25	Peak	Horizontal
5	11400	35.73	4.85	40.58	54.00	-13.42	Average	Vertical
6	11400	50.08	4.85	54.93	74.00	-19.07	Peak	Vertical
7	17100	31.21	8.22	39.43	54.00	-14.57	Average	Vertical
8	17100	43.57	8.22	51.79	74.00	-22.21	Peak	Vertical
5G_AX20_5720 MHz 11440 MHz 17160 MHz								
1	11440	33.03	4.88	37.91	54.00	-16.09	Average	Horizontal
2	11440	46.45	4.88	51.33	74.00	-22.67	Peak	Horizontal
3	17160	30.76	8.34	39.10	54.00	-14.90	Average	Horizontal
4	17160	44.06	8.34	52.40	74.00	-21.60	Peak	Horizontal
5	11440	34.10	4.88	38.98	54.00	-15.02	Average	Vertical
6	11440	48.93	4.88	53.81	74.00	-20.19	Peak	Vertical
7	17160	30.80	8.34	39.14	54.00	-14.86	Average	Vertical
8	17160	43.44	8.34	51.78	74.00	-22.22	Peak	Vertical
5G_AX20_5745 MHz 11490 MHz 17235 MHz								
1	11490	32.67	4.91	37.58	54.00	-16.42	Average	Horizontal
2	11490	47.02	4.91	51.93	74.00	-22.07	Peak	Horizontal
3	17235	31.18	8.49	39.67	54.00	-14.33	Average	Horizontal
4	17235	43.22	8.49	51.71	74.00	-22.29	Peak	Horizontal
5	11490	32.84	4.91	37.75	54.00	-16.25	Average	Vertical
6	11490	46.87	4.91	51.78	74.00	-22.22	Peak	Vertical
7	17235	31.06	8.49	39.55	54.00	-14.45	Average	Vertical
8	17235	43.35	8.49	51.84	74.00	-22.16	Peak	Vertical
5G_AX20_5785 MHz 11570 MHz 17355 MHz								
1	11570	35.71	5.01	40.72	54.00	-13.28	Average	Horizontal
2	11570	48.64	5.01	53.65	74.00	-20.35	Peak	Horizontal
3	17355	30.77	8.72	39.49	54.00	-14.51	Average	Horizontal
4	17355	43.35	8.72	52.07	74.00	-21.93	Peak	Horizontal
5	11570	35.17	5.01	40.18	54.00	-13.82	Average	Vertical
6	11570	48.89	5.01	53.90	74.00	-20.10	Peak	Vertical
7	17355	30.77	8.72	39.49	54.00	-14.51	Average	Vertical
8	17355	43.95	8.72	52.67	74.00	-21.33	Peak	Vertical
5G_AX20_5825 MHz 11650 MHz 17475 MHz								
1	11650	33.30	5.13	38.43	54.00	-15.57	Average	Horizontal
2	11650	47.16	5.13	52.29	74.00	-21.71	Peak	Horizontal
3	17475	29.41	8.97	38.38	54.00	-15.62	Average	Horizontal
4	17475	43.63	8.97	52.60	74.00	-21.40	Peak	Horizontal
5	11650	33.46	5.13	38.59	54.00	-15.41	Average	Vertical
6	11650	46.27	5.13	51.40	74.00	-22.60	Peak	Vertical
7	17475	29.41	8.97	38.38	54.00	-15.62	Average	Vertical
8	17475	41.30	8.97	50.27	74.00	-23.73	Peak	Vertical
5G_AX40_5190 MHz 10380 MHz 15570 MHz								
1	10380	35.30	4.80	40.10	54.00	-13.90	Average	Horizontal
2	10380	50.46	4.80	55.26	74.00	-18.74	Peak	Horizontal
3	15570	31.04	8.56	39.60	54.00	-14.40	Average	Horizontal
4	15570	43.39	8.56	51.95	74.00	-22.05	Peak	Horizontal
5	10380	36.42	4.80	41.22	54.00	-12.78	Average	Vertical
6	10380	51.16	4.80	55.96	74.00	-18.04	Peak	Vertical
7	15570	31.04	8.56	39.60	54.00	-14.40	Average	Vertical
8	15570	44.33	8.56	52.89	74.00	-21.11	Peak	Vertical
5G_AX40_5230 MHz 10460 MHz 15690 MHz								
1	10460	33.83	4.92	38.75	54.00	-15.25	Average	Horizontal
2	10460	46.62	4.92	51.54	74.00	-22.46	Peak	Horizontal
3	15690	31.92	8.32	40.24	54.00	-13.76	Average	Horizontal
4	15690	44.29	8.32	52.61	74.00	-21.39	Peak	Horizontal
5	10460	33.95	4.92	38.87	54.00	-15.13	Average	Vertical

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6	10460	46.07	4.92	50.99	74.00	-23.01	Peak	Vertical
7	15690	31.95	8.32	40.27	54.00	-13.73	Average	Vertical
8	15690	44.26	8.32	52.58	74.00	-21.42	Peak	Vertical
5G_AX40_5270 MHz 10540 MHz 15810 MHz								
1	10540	33.18	4.93	38.11	54.00	-15.89	Average	Horizontal
2	10540	44.92	4.93	49.85	74.00	-24.15	Peak	Horizontal
3	15810	30.96	8.09	39.05	54.00	-14.95	Average	Horizontal
4	15810	42.96	8.09	51.05	74.00	-22.95	Peak	Horizontal
5	10540	33.34	4.93	38.27	54.00	-15.73	Average	Vertical
6	10540	45.32	4.93	50.25	74.00	-23.75	Peak	Vertical
7	15810	31.04	8.09	39.13	54.00	-14.87	Average	Vertical
8	15810	43.86	8.09	51.95	74.00	-22.05	Peak	Vertical
5G_AX40_5310 MHz 10620 MHz 15930 MHz								
1	10620	32.80	4.87	37.67	54.00	-16.33	Average	Horizontal
2	10620	44.81	4.87	49.68	74.00	-24.32	Peak	Horizontal
3	15930	30.39	7.85	38.24	54.00	-15.76	Average	Horizontal
4	15930	43.46	7.85	51.31	74.00	-22.69	Peak	Horizontal
5	10620	32.83	4.87	37.70	54.00	-16.30	Average	Vertical
6	10620	44.82	4.87	49.69	74.00	-24.31	Peak	Vertical
7	15930	30.34	7.85	38.19	54.00	-15.81	Average	Vertical
8	15930	42.93	7.85	50.78	74.00	-23.22	Peak	Vertical
5G_AX40_5510 MHz 11020 MHz 16530 MHz								
1	11020	33.48	4.59	38.07	54.00	-15.93	Average	Horizontal
2	11020	45.67	4.59	50.26	74.00	-23.74	Peak	Horizontal
3	16530	31.62	7.92	39.54	54.00	-14.46	Average	Horizontal
4	16530	44.84	7.92	52.76	74.00	-21.24	Peak	Horizontal
5	11020	34.13	4.59	38.72	54.00	-15.28	Average	Vertical
6	11020	46.06	4.59	50.65	74.00	-23.35	Peak	Vertical
7	16530	31.70	7.92	39.62	54.00	-14.38	Average	Vertical
8	16530	43.99	7.92	51.91	74.00	-22.09	Peak	Vertical
5G_AX40_5550 MHz 11100 MHz 16650 MHz								
1	11100	32.13	4.64	36.77	54.00	-17.23	Average	Horizontal
2	11100	44.65	4.64	49.29	74.00	-24.71	Peak	Horizontal
3	16650	30.55	7.94	38.49	54.00	-15.51	Average	Horizontal
4	16650	43.13	7.94	51.07	74.00	-22.93	Peak	Horizontal
5	11100	33.40	4.64	38.04	54.00	-15.96	Average	Vertical
6	11100	47.98	4.64	52.62	74.00	-21.38	Peak	Vertical
7	16650	30.60	7.94	38.54	54.00	-15.46	Average	Vertical
8	16650	43.42	7.94	51.36	74.00	-22.64	Peak	Vertical
5G_AX40_5670 MHz 11340 MHz 17010 MHz								
1	11100	33.40	4.64	38.04	54.00	-15.96	Average	Vertical
2	11340	43.94	4.81	48.75	74.00	-25.25	Peak	Horizontal
3	16650	30.60	7.94	38.54	54.00	-15.46	Average	Vertical
4	17010	43.82	8.04	51.86	74.00	-22.14	Peak	Horizontal
5	11340	32.58	4.81	37.39	54.00	-16.61	Average	Vertical
6	11340	44.84	4.81	49.65	74.00	-24.35	Peak	Vertical
7	17010	31.10	8.04	39.14	54.00	-14.86	Average	Vertical
8	17010	44.24	8.04	52.28	74.00	-21.72	Peak	Vertical
5G_AX40_5710 MHz 11420 MHz 17130 MHz								
1	11420	31.57	4.86	36.43	54.00	-17.57	Average	Horizontal
2	11420	44.85	4.86	49.71	74.00	-24.29	Peak	Horizontal
3	17130	31.19	8.28	39.47	54.00	-14.53	Average	Horizontal
4	17130	44.27	8.28	52.55	74.00	-21.45	Peak	Horizontal
5	11420	31.72	4.86	36.58	54.00	-17.42	Average	Vertical
6	11420	43.65	4.86	48.51	74.00	-25.49	Peak	Vertical
7	17130	31.19	8.28	39.47	54.00	-14.53	Average	Vertical
8	17130	43.57	8.28	51.85	74.00	-22.15	Peak	Vertical

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5G_AX40_5755 MHz			11510 MHz		17265 MHz				
1	11440	34.10	4.88		38.98	54.00	-15.02	Average	Vertical
2	11510	44.75	4.93		49.68	74.00	-24.32	Peak	Horizontal
3	17160	30.80	8.34		39.14	54.00	-14.86	Average	Vertical
4	17265	42.94	8.54		51.48	74.00	-22.52	Peak	Horizontal
5	11510	33.05	4.93		37.98	54.00	-16.02	Average	Vertical
6	11510	44.84	4.93		49.77	74.00	-24.23	Peak	Vertical
7	17265	30.92	8.54		39.46	54.00	-14.54	Average	Vertical
8	17265	43.40	8.54		51.94	74.00	-22.06	Peak	Vertical
5G_AX40_5795 MHz			11590 MHz		17385 MHz				
1	11590	32.32	5.05		37.37	54.00	-16.63	Average	Horizontal
2	11590	43.89	5.05		48.94	74.00	-25.06	Peak	Horizontal
3	17385	30.70	8.79		39.49	54.00	-14.51	Average	Horizontal
4	17385	42.68	8.79		51.47	74.00	-22.53	Peak	Horizontal
5	11590	32.77	5.05		37.82	54.00	-16.18	Average	Vertical
6	11590	46.05	5.05		51.10	74.00	-22.90	Peak	Vertical
7	17385	30.70	8.79		39.49	54.00	-14.51	Average	Vertical
8	17385	42.90	8.79		51.69	74.00	-22.31	Peak	Vertical
5G_AX80_5210 MHz			10420 MHz		15630 MHz				
1	10420	33.68	4.86		38.54	54.00	-15.46	Average	Horizontal
2	10420	46.08	4.86		50.94	74.00	-23.06	Peak	Horizontal
3	15630	31.79	8.45		40.24	54.00	-13.76	Average	Horizontal
4	15630	44.39	8.45		52.84	74.00	-21.16	Peak	Horizontal
5	10420	33.74	4.86		38.60	54.00	-15.40	Average	Vertical
6	10420	45.91	4.86		50.77	74.00	-23.23	Peak	Vertical
7	15630	31.71	8.45		40.16	54.00	-13.84	Average	Vertical
8	15630	44.80	8.45		53.25	74.00	-20.75	Peak	Vertical
5G_AX80_5290 MHz			10580 MHz		15870 MHz				
1	10580	33.10	4.91		38.01	54.00	-15.99	Average	Horizontal
2	10580	45.18	4.91		50.09	74.00	-23.91	Peak	Horizontal
3	15870	31.09	7.96		39.05	54.00	-14.95	Average	Horizontal
4	15870	43.35	7.96		51.31	74.00	-22.69	Peak	Horizontal
5	10580	33.17	4.91		38.08	54.00	-15.92	Average	Vertical
6	10580	45.66	4.91		50.57	74.00	-23.43	Peak	Vertical
7	15870	31.09	7.96		39.05	54.00	-14.95	Average	Vertical
8	15870	43.40	7.96		51.36	74.00	-22.64	Peak	Vertical
5G_AX80_5530 MHz			11060 MHz		16590 MHz				
1	11060	33.55	4.60		38.15	54.00	-15.85	Average	Horizontal
2	11060	46.48	4.60		51.08	74.00	-22.92	Peak	Horizontal
3	16590	30.25	7.92		38.17	54.00	-15.83	Average	Horizontal
4	16590	42.79	7.92		50.71	74.00	-23.29	Peak	Horizontal
5	11060	33.70	4.60		38.30	54.00	-15.70	Average	Vertical
6	11060	47.13	4.60		51.73	74.00	-22.27	Peak	Vertical
7	16590	30.16	7.92		38.08	54.00	-15.92	Average	Vertical
8	16590	43.39	7.92		51.31	74.00	-22.69	Peak	Vertical
5G_AX80_5610 MHz			11220 MHz		16830 MHz				
1	11220	31.83	4.73		36.56	54.00	-17.44	Average	Horizontal
2	11220	43.92	4.73		48.65	74.00	-25.35	Peak	Horizontal
3	16830	30.86	7.99		38.85	54.00	-15.15	Average	Horizontal
4	16830	43.37	7.99		51.36	74.00	-22.64	Peak	Horizontal
5	11220	31.79	4.73		36.52	54.00	-17.48	Average	Vertical
6	11220	44.67	4.73		49.40	74.00	-24.60	Peak	Vertical
7	16830	30.82	7.99		38.81	54.00	-15.19	Average	Vertical
8	16830	43.06	7.99		51.05	74.00	-22.95	Peak	Vertical
5G_AX80_5690 MHz			11380 MHz		17070 MHz				
1	11380	31.64	4.83		36.47	54.00	-17.53	Average	Horizontal
2	11380	44.15	4.83		48.98	74.00	-25.02	Peak	Horizontal

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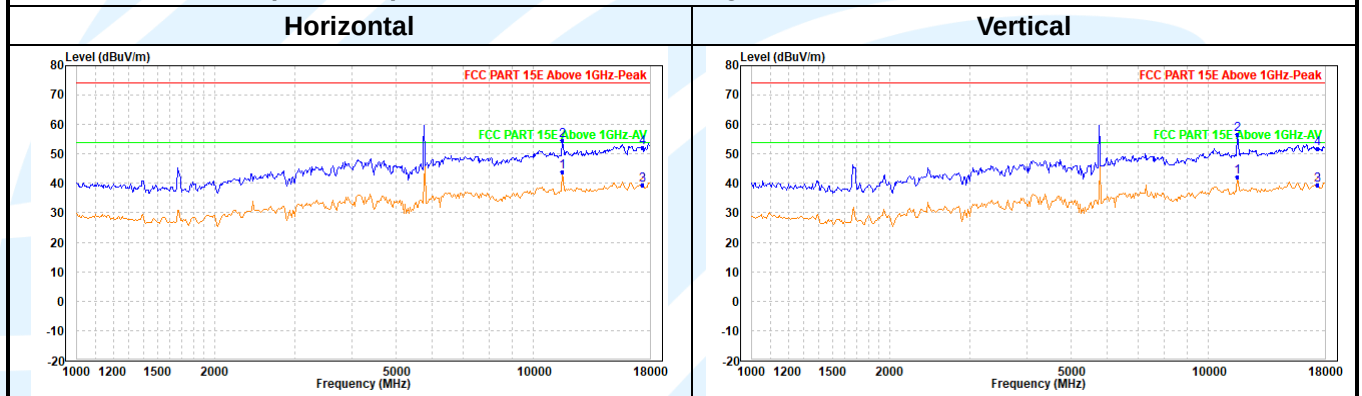
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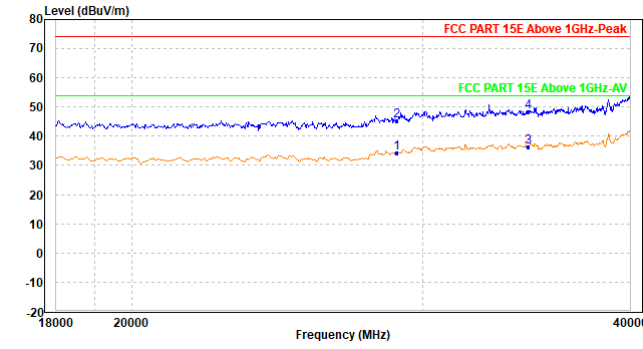
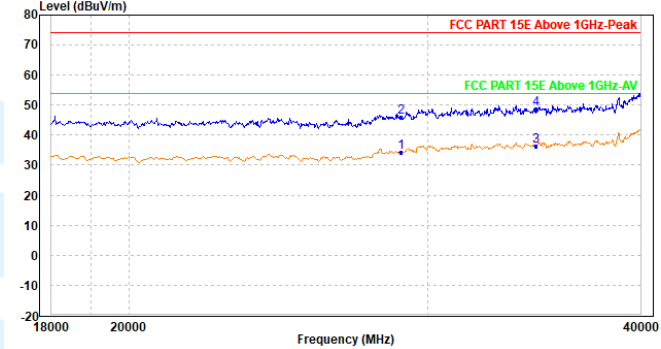
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3	17070	31.28	8.15	39.43	54.00	-14.57	Average	Horizontal
4	17070	43.75	8.15	51.90	74.00	-22.10	Peak	Horizontal
5	11380	31.79	4.83	36.62	54.00	-17.38	Average	Vertical
6	11380	43.64	4.83	48.47	74.00	-25.53	Peak	Vertical
7	17070	31.28	8.15	39.43	54.00	-14.57	Average	Vertical
8	17070	43.83	8.15	51.98	74.00	-22.02	Peak	Vertical
5G_AX80_5775 MHz 11550 MHz 17325 MHz								
1	11550	32.32	4.99	37.31	54.00	-16.69	Average	Horizontal
2	11550	44.64	4.99	49.63	74.00	-24.37	Peak	Horizontal
3	17325	30.84	8.66	39.50	54.00	-14.50	Average	Horizontal
4	17325	43.43	8.66	52.09	74.00	-21.91	Peak	Horizontal
5	11550	32.32	4.99	37.31	54.00	-16.69	Average	Vertical
6	11550	45.10	4.99	50.09	74.00	-23.91	Peak	Vertical
7	17325	30.84	8.66	39.50	54.00	-14.50	Average	Vertical
8	17325	43.41	8.66	52.07	74.00	-21.93	Peak	Vertical

Radiated Emission (1-18 GHz) Worst test mode test diagram_802.11A_5785 MHz



Radiated Emission Worst Test Data (Above 18GHz):

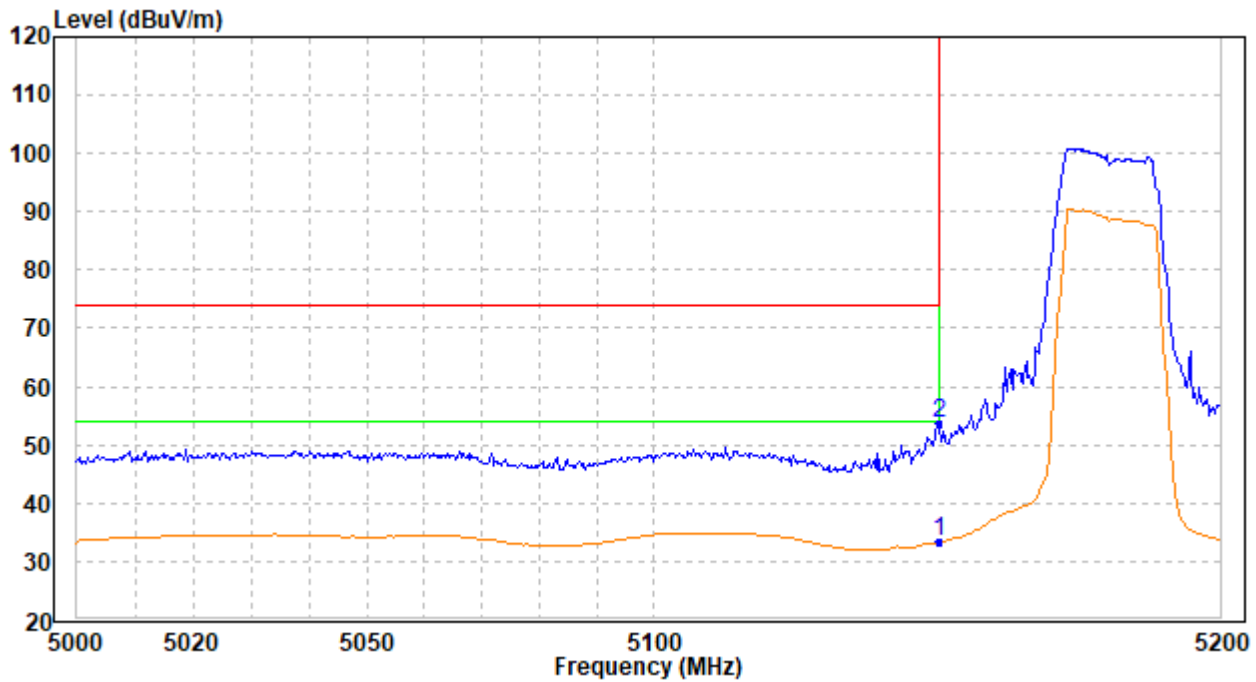
No.	Freq. (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
802.11A 5785 MHz								
Horizontal					Vertical			
 Level (dBuV/m) vs Frequency (MHz). Graph shows FCC PART 15E Above 1GHz-Peak (red line) and FCC PART 15E Above 1GHz-AV (green line). Data points are marked with numbers 1, 2, 3, 4.					 Level (dBuV/m) vs Frequency (MHz). Graph shows FCC PART 15E Above 1GHz-Peak (red line) and FCC PART 15E Above 1GHz-AV (green line). Data points are marked with numbers 1, 2, 3, 4.			
1	28925.000	28.71	5.50	34.21	54.00	-19.79	Average	Horizontal
2	28925.000	39.86	5.50	45.36	74.00	-28.64	Peak	Horizontal
3	34710.000	28.92	7.48	36.40	54.00	-17.60	Average	Horizontal
4	34710.000	40.90	7.48	48.38	74.00	-25.62	Peak	Horizontal
5	28925.000	28.90	5.53	34.43	54.00	-19.57	Average	Vertical
6	28925.000	40.50	5.53	46.03	74.00	-27.97	Peak	Vertical
7	34710.000	28.92	7.46	36.38	54.00	-17.62	Average	Vertical
8	34710.000	41.20	7.46	48.66	74.00	-25.34	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 = Result – Limit

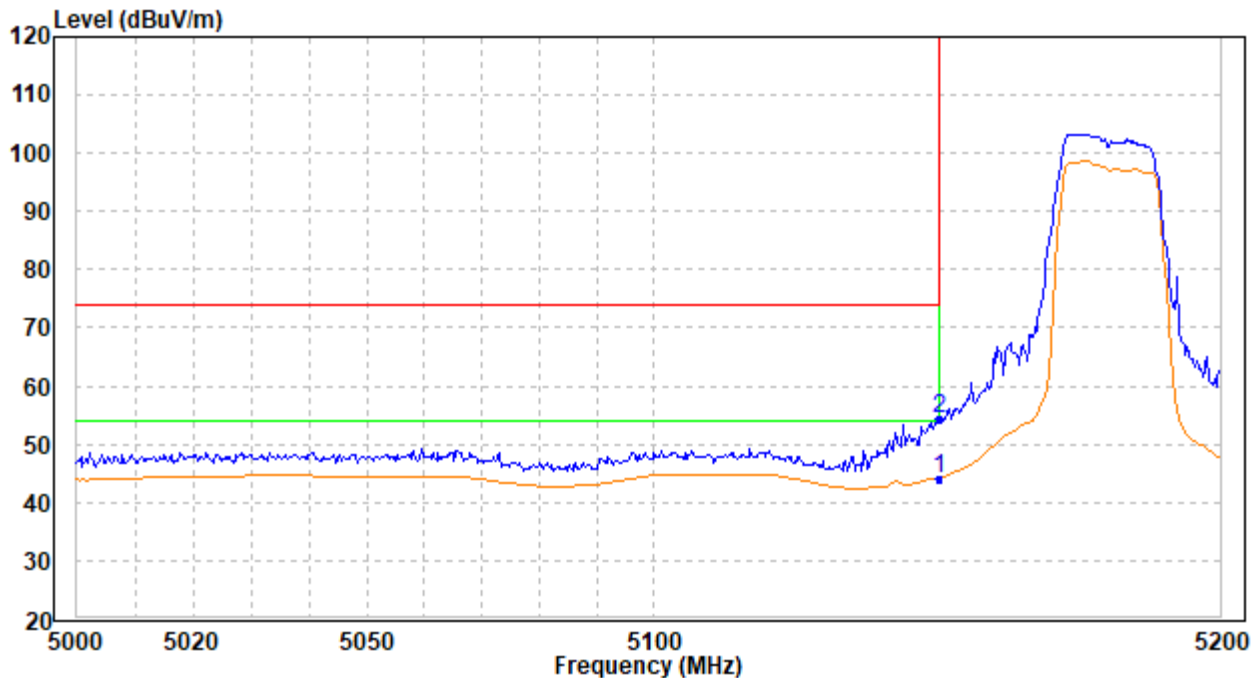
Band Edge Measurements (Radiated)

Test Channel:	5G_A_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	53.60	74.00	33.30	54.00	PASS

Test Channel:	5G_A_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	54.21	74.00	44.19	54.00	PASS

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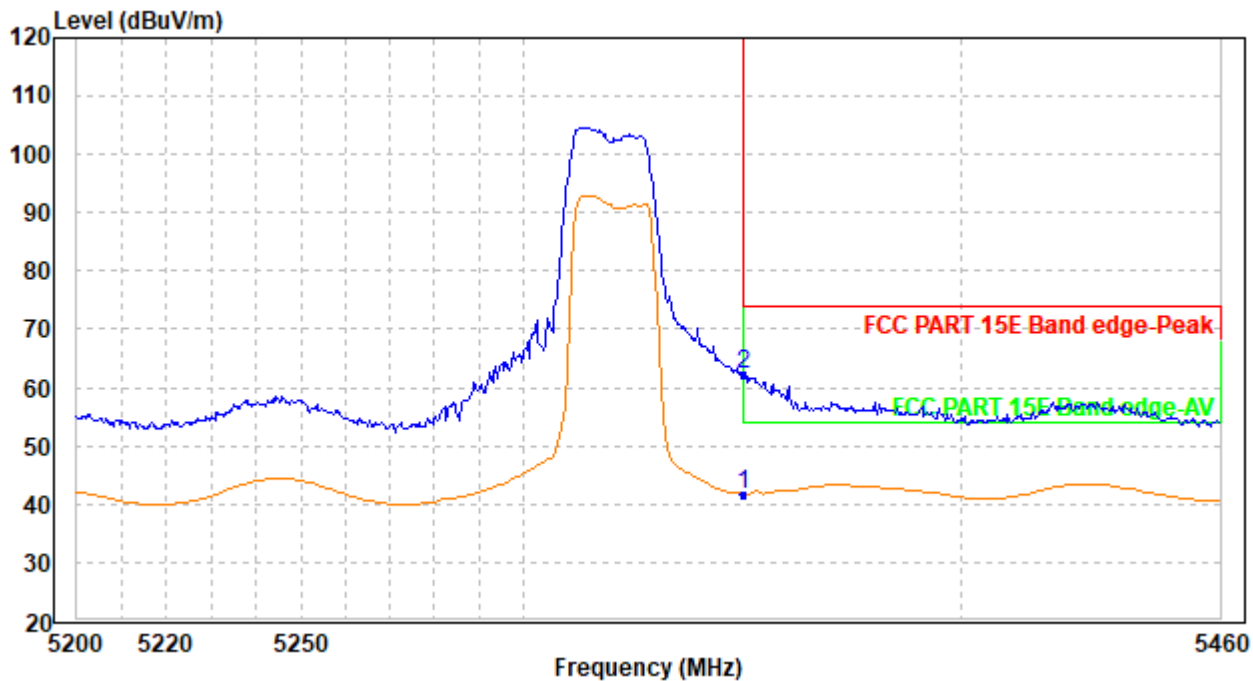
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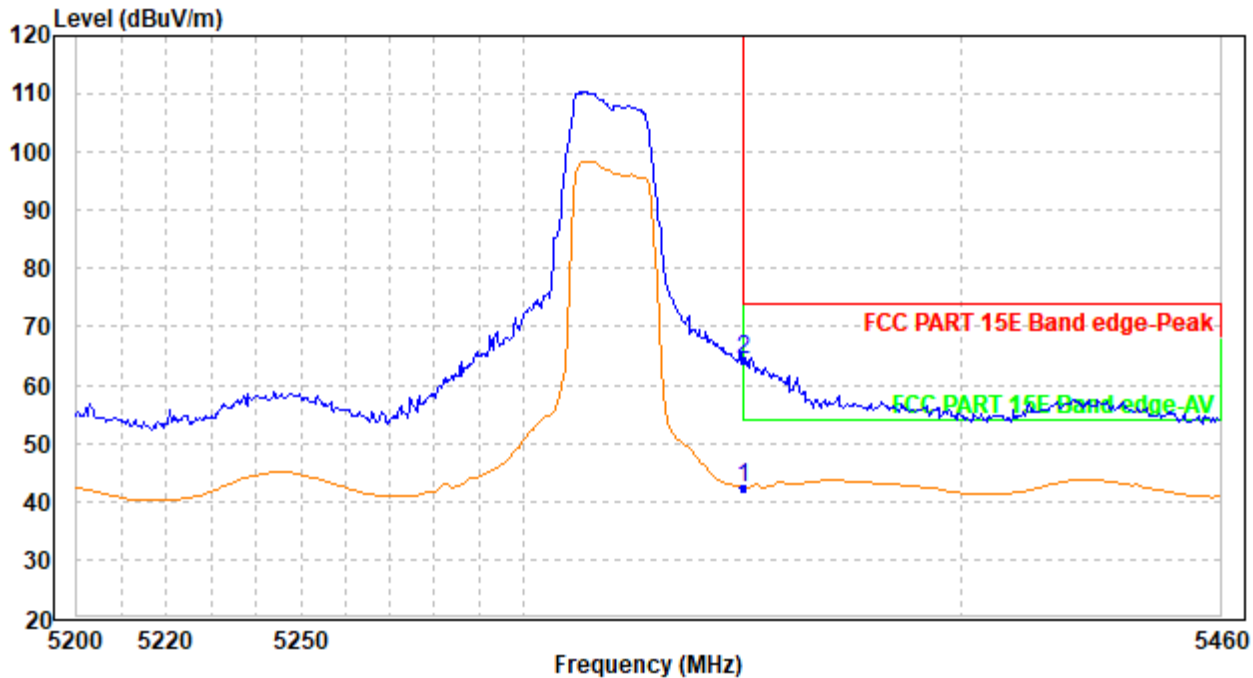
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Test Channel:	5G_A_5320	Ant Polar:	Horizontal
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Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	AV level (dBμV/m)	AV Limit (dBμV/m)	Conclusion
5350.000	62.42	74.00	41.74	54.00	PASS

Test Channel:	5G_A_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	64.21	74.00	42.51	54.00	PASS

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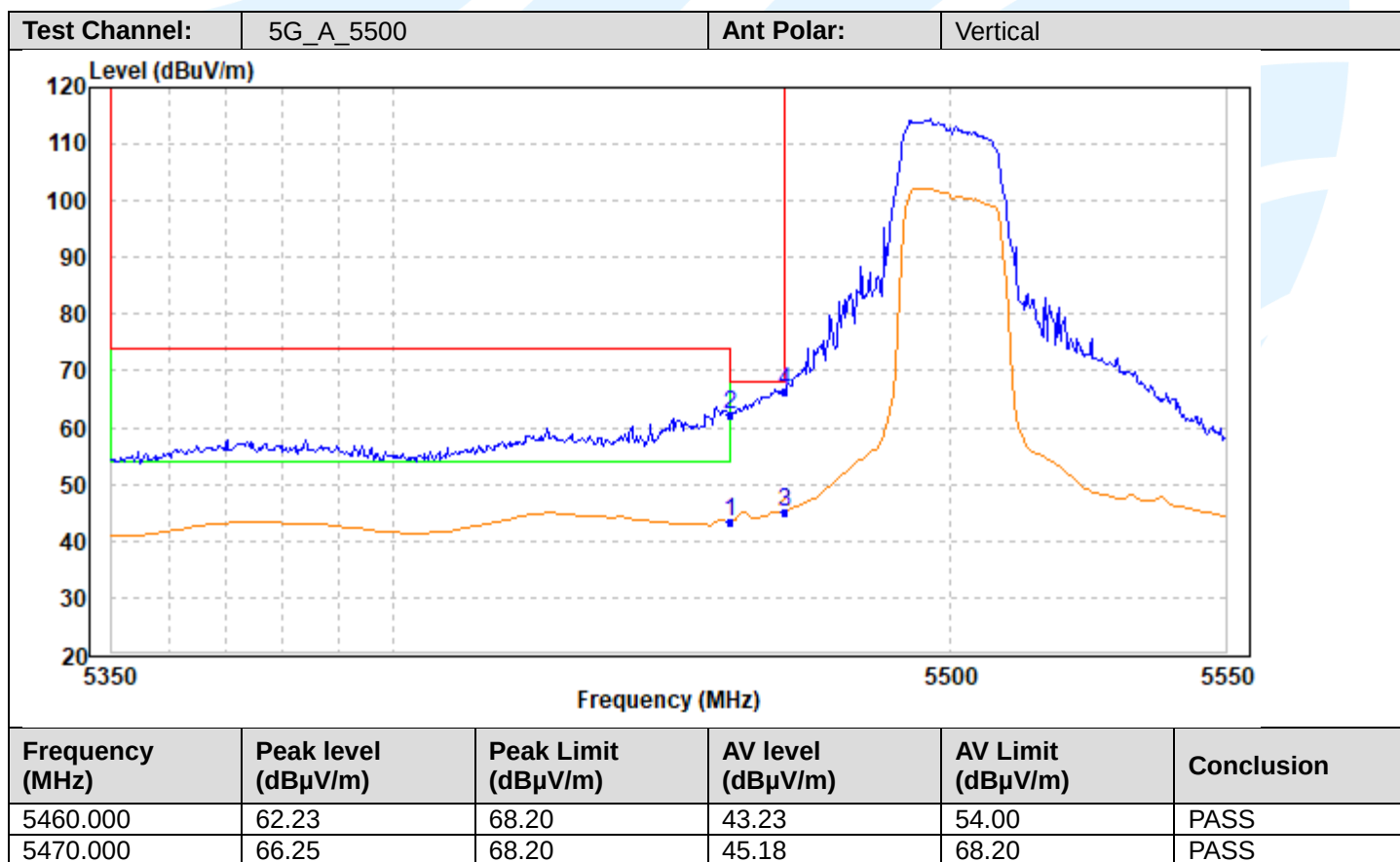
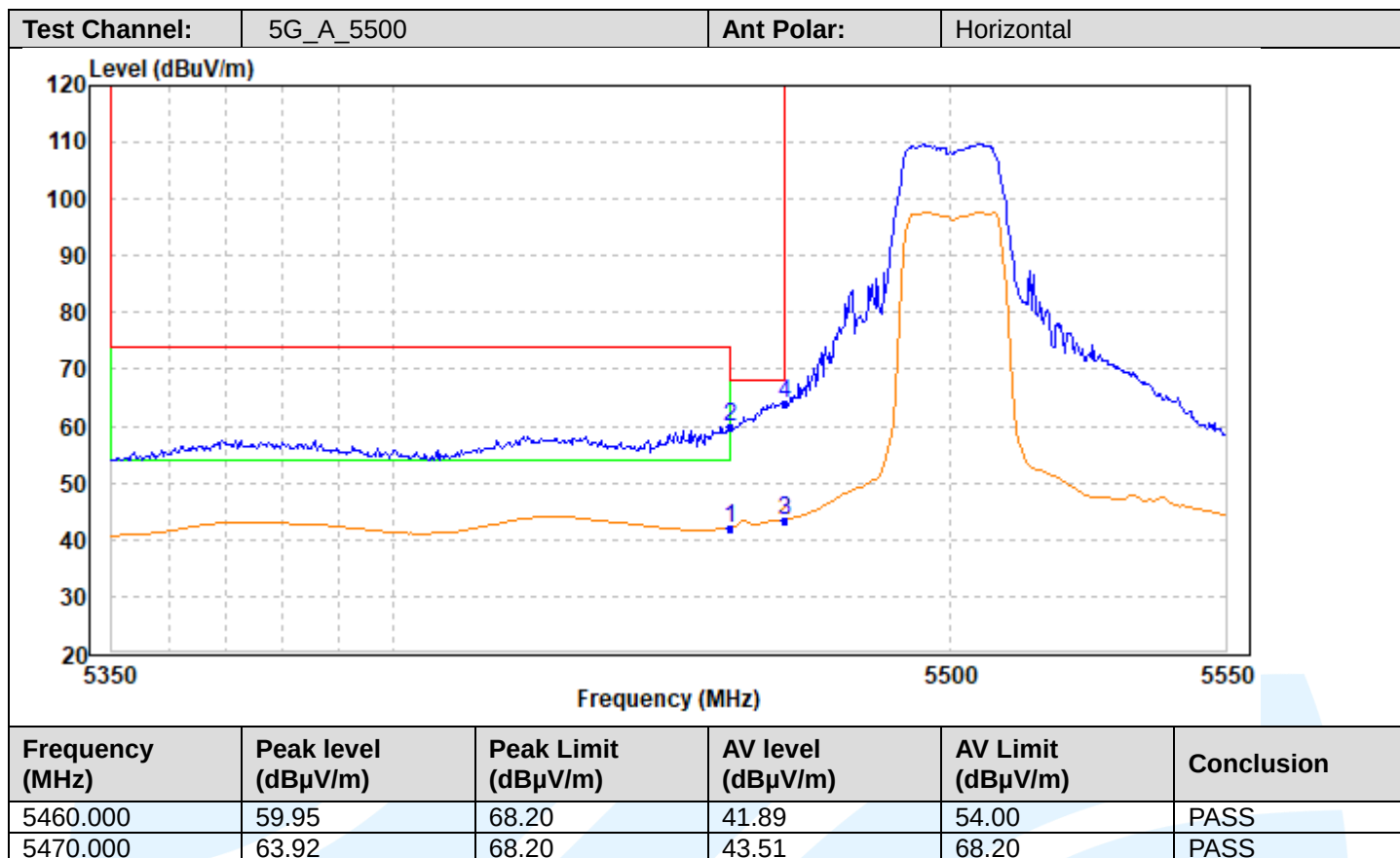
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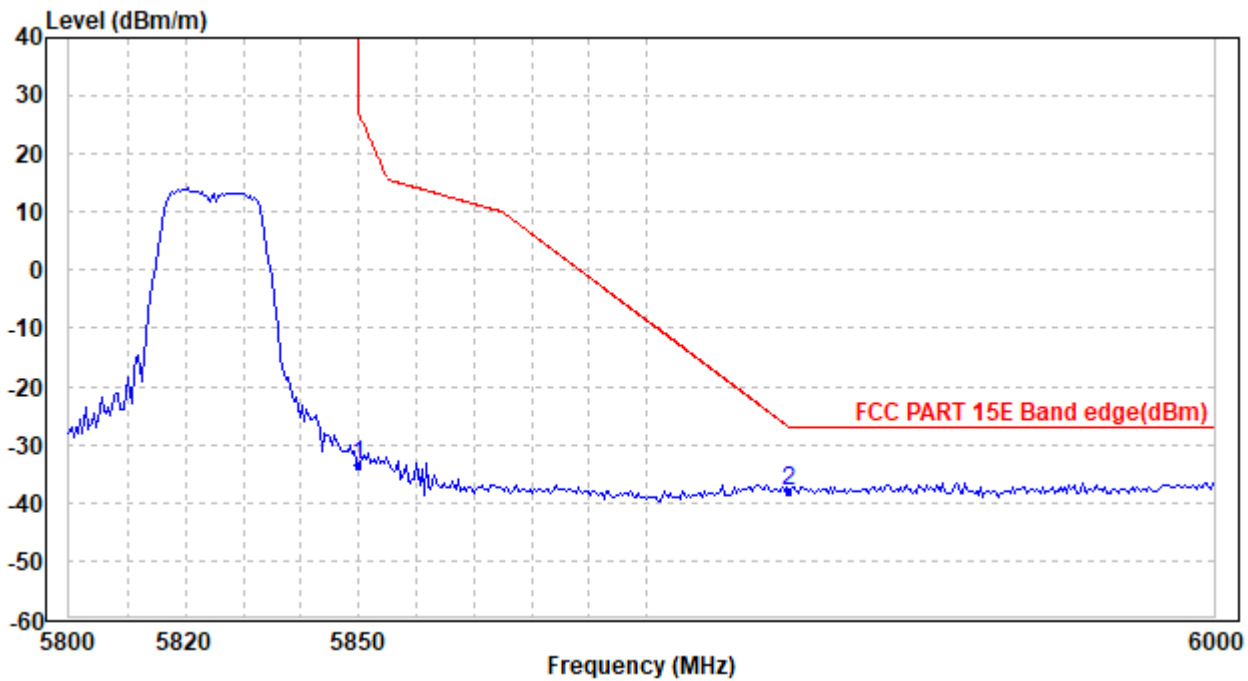
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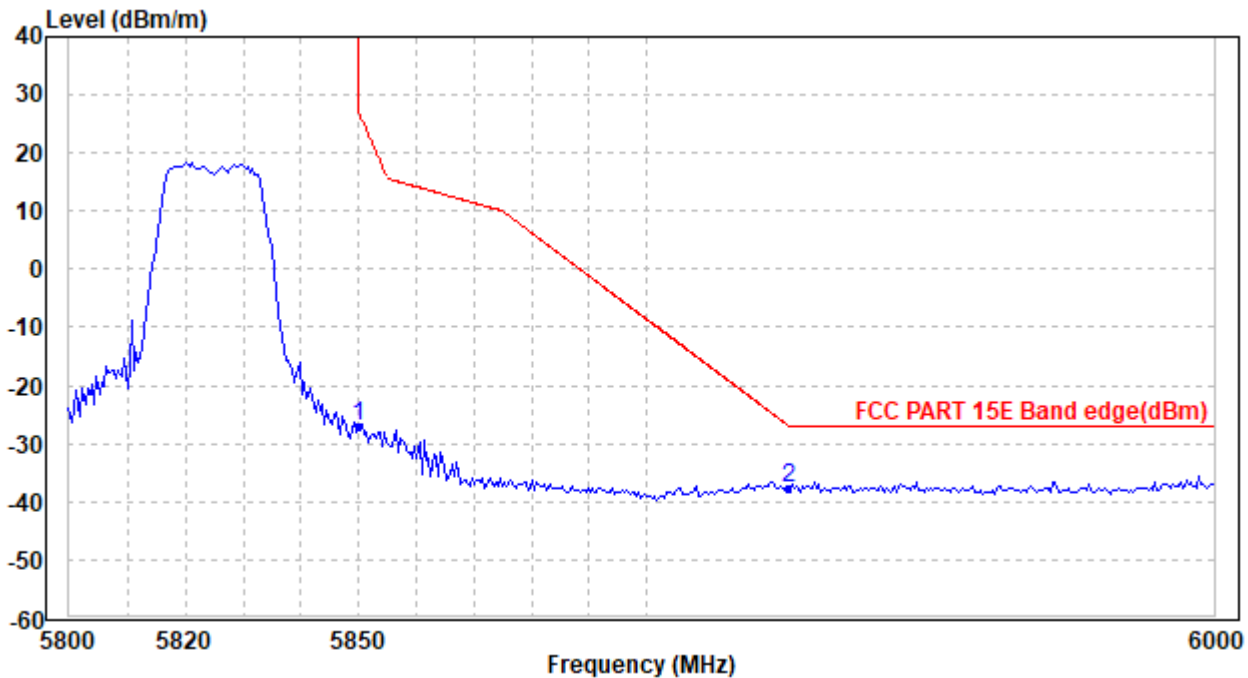


Test Channel:	5G_A_5825	Ant Polar:	Horizontal
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Frequency (MHz)	Peak level (dBm)	Peak Limit (dBm)	Conclusion
5850.000	-33.53	27.00	PASS
5925.000	-37.96	-27.00	PASS

Test Channel:	5G_A_5825	Ant Polar:	Vertical
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Frequency (MHz)	Peak level (dBm)	Peak Limit (dBm)	Conclusion
5850.000	-26.93	27.00	PASS
5925.000	-37.55	-27.00	PASS

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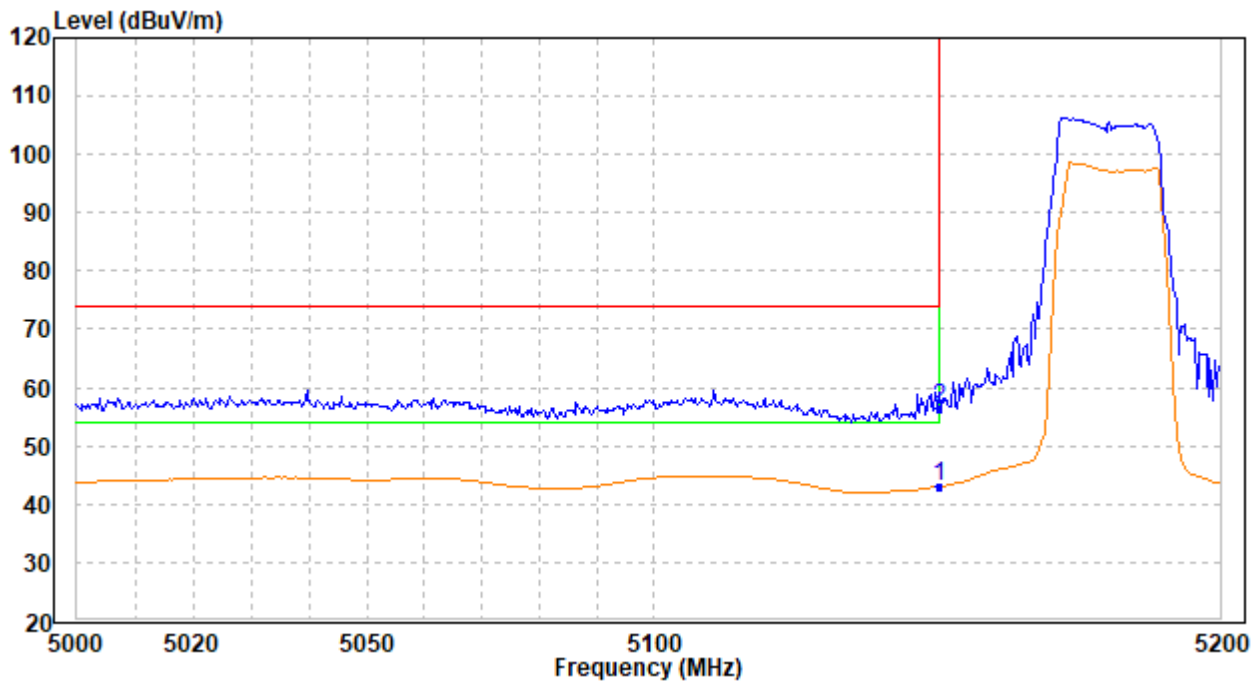
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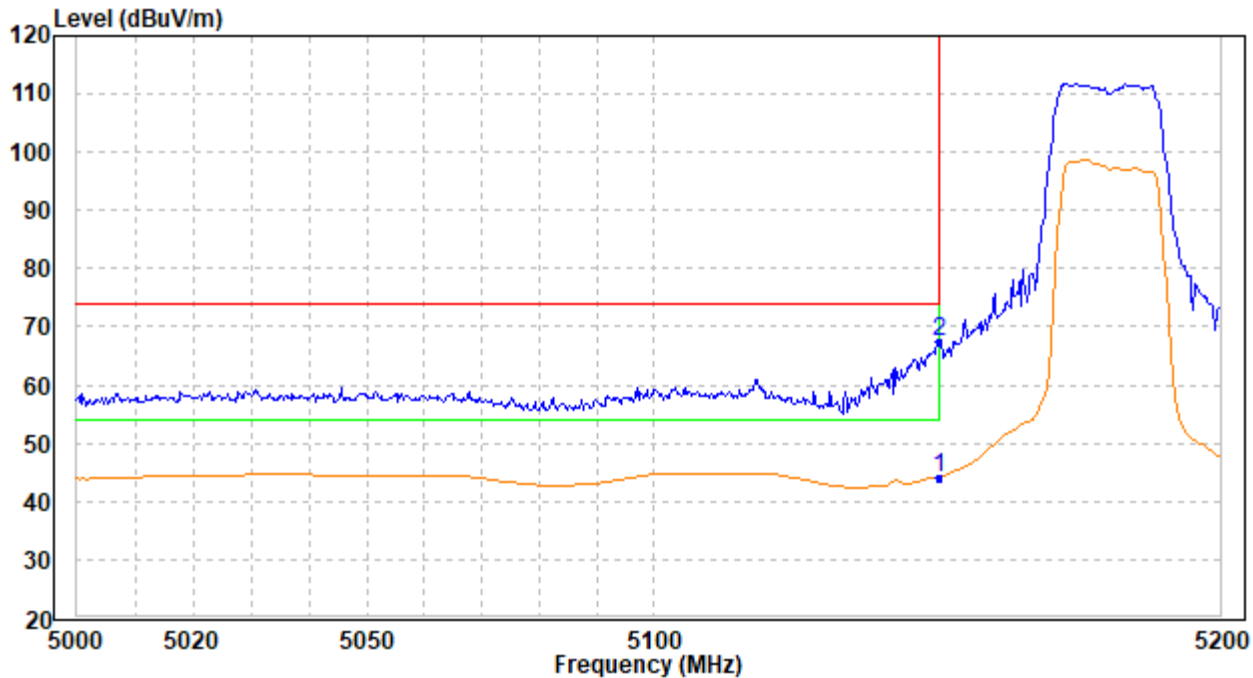
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Test Channel:	5G_N20_5180	Ant Polar:	Horizontal
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Frequency (MHz)	Peak level (dBuV/m)	Peak Limit (dBuV/m)	AV level (dBuV/m)	AV Limit (dBuV/m)	Conclusion
5150.000	56.39	74.00	42.97	54.00	PASS

Test Channel:	5G_N20_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	67.59	74.00	44.19	54.00	PASS

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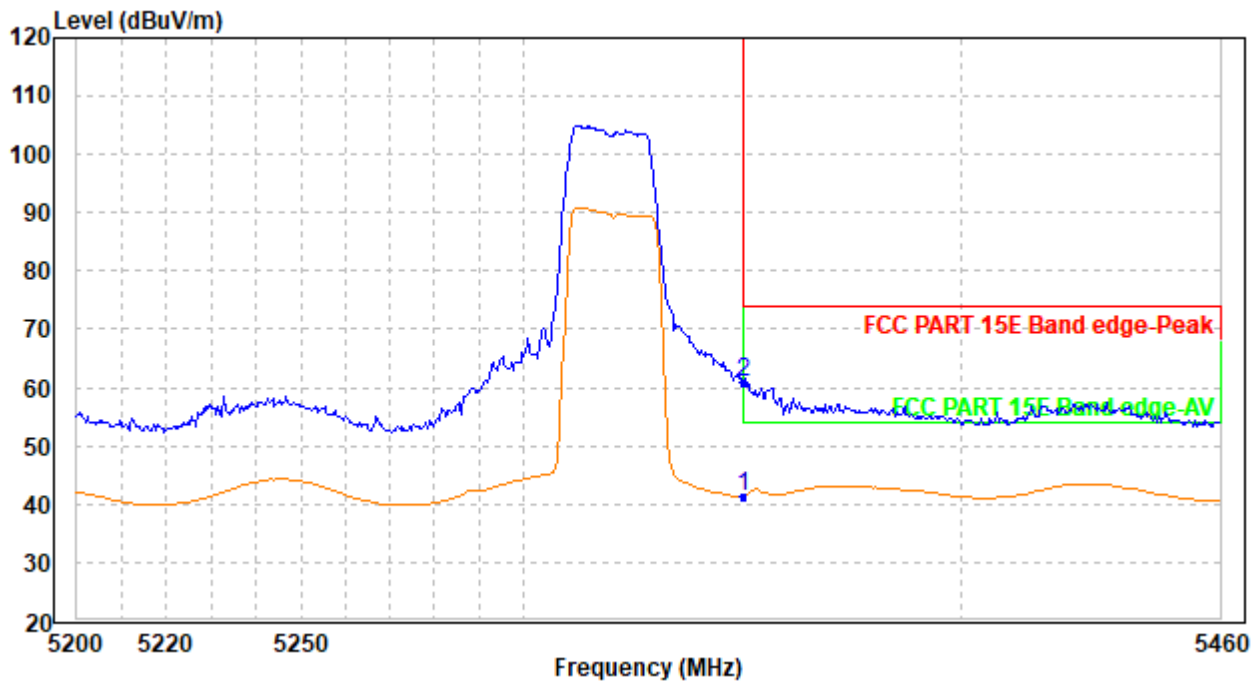
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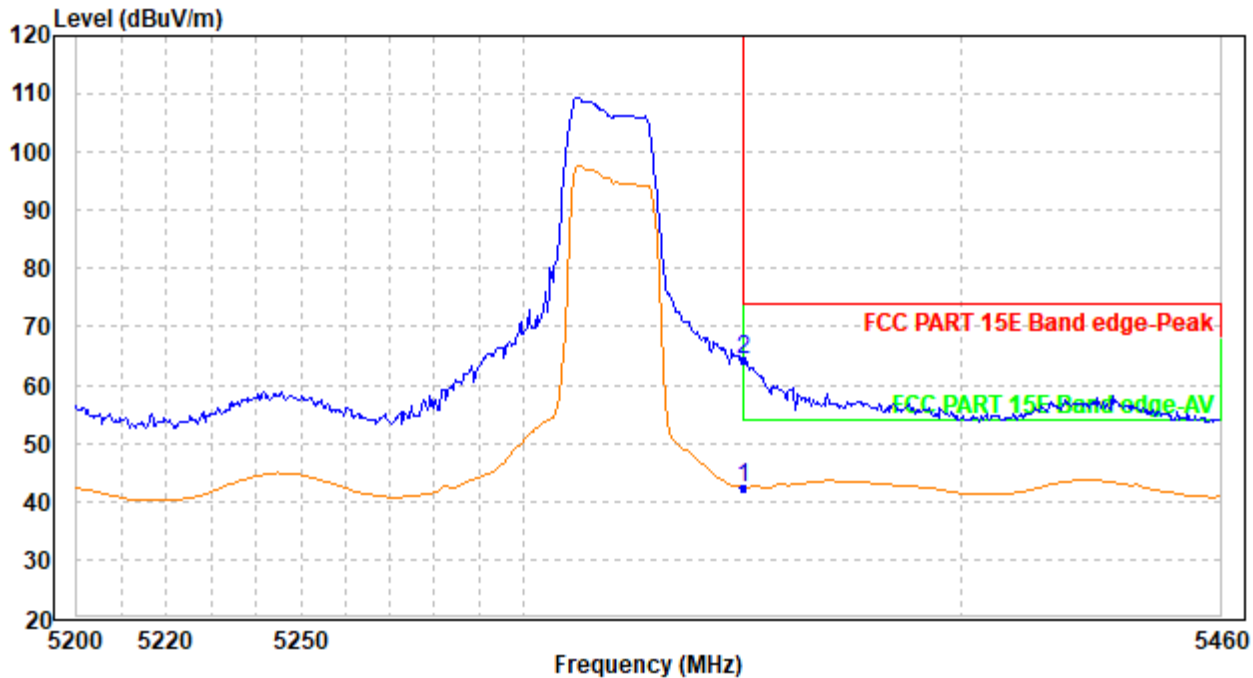
UTTR-RF-RSS247-V1.1

Test Channel:	5G_N20_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	61.05	74.00	41.36	54.00	PASS

Test Channel:	5G_N20_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	64.46	74.00	42.44	54.00	PASS

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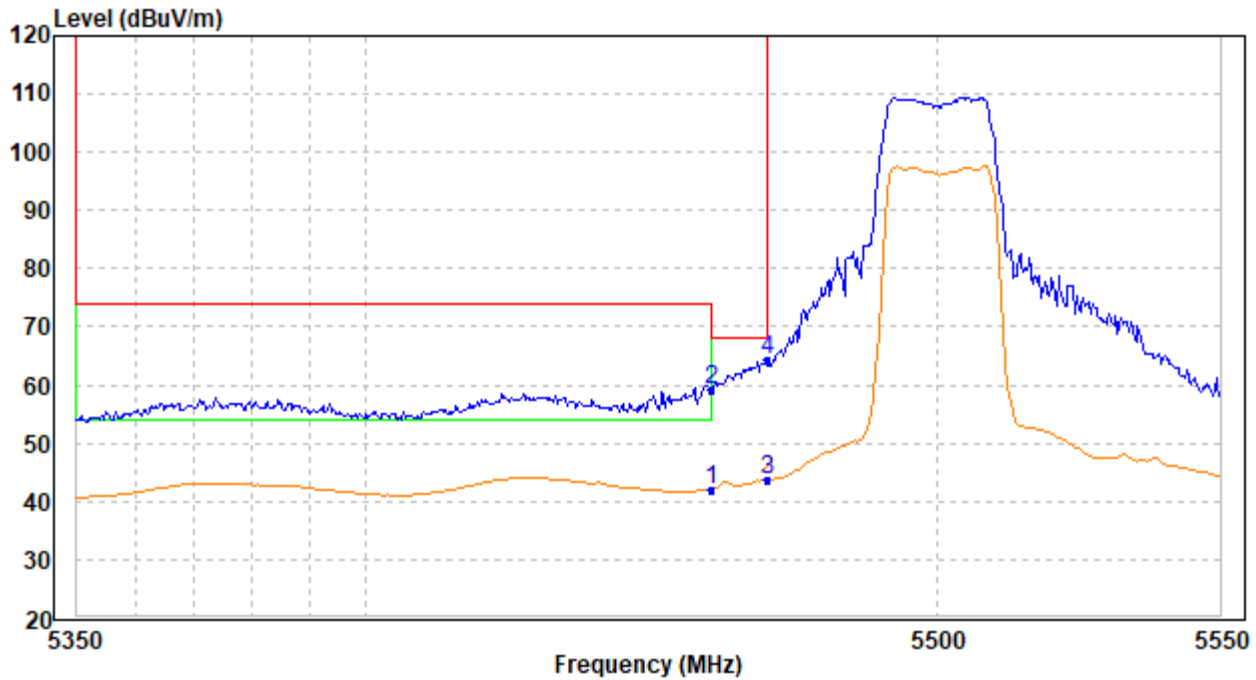
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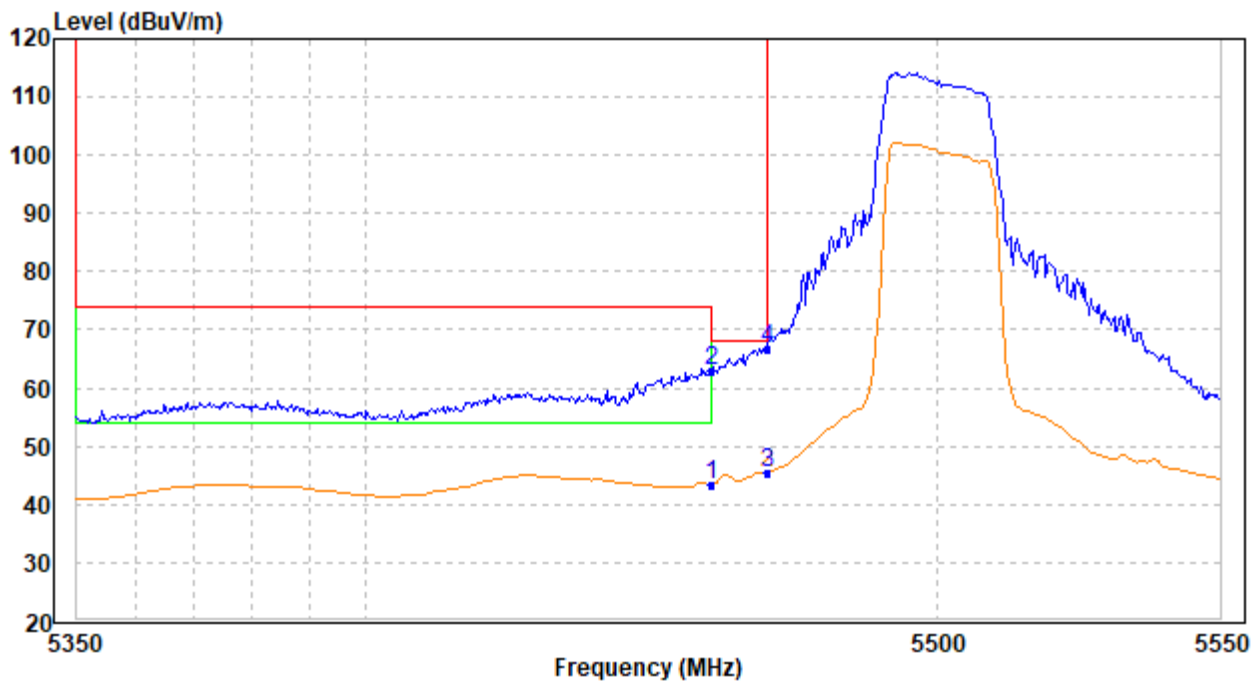
UTTR-RF-RSS247-V1.1

Test Channel:	5G_N20_5500	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	59.17	68.20	41.89	54.00	PASS
5470.000	64.50	68.20	43.56	68.20	PASS

Test Channel:	5G_N20_5500	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	62.90	68.20	43.30	54.00	PASS
5470.000	66.59	68.20	45.45	68.20	PASS

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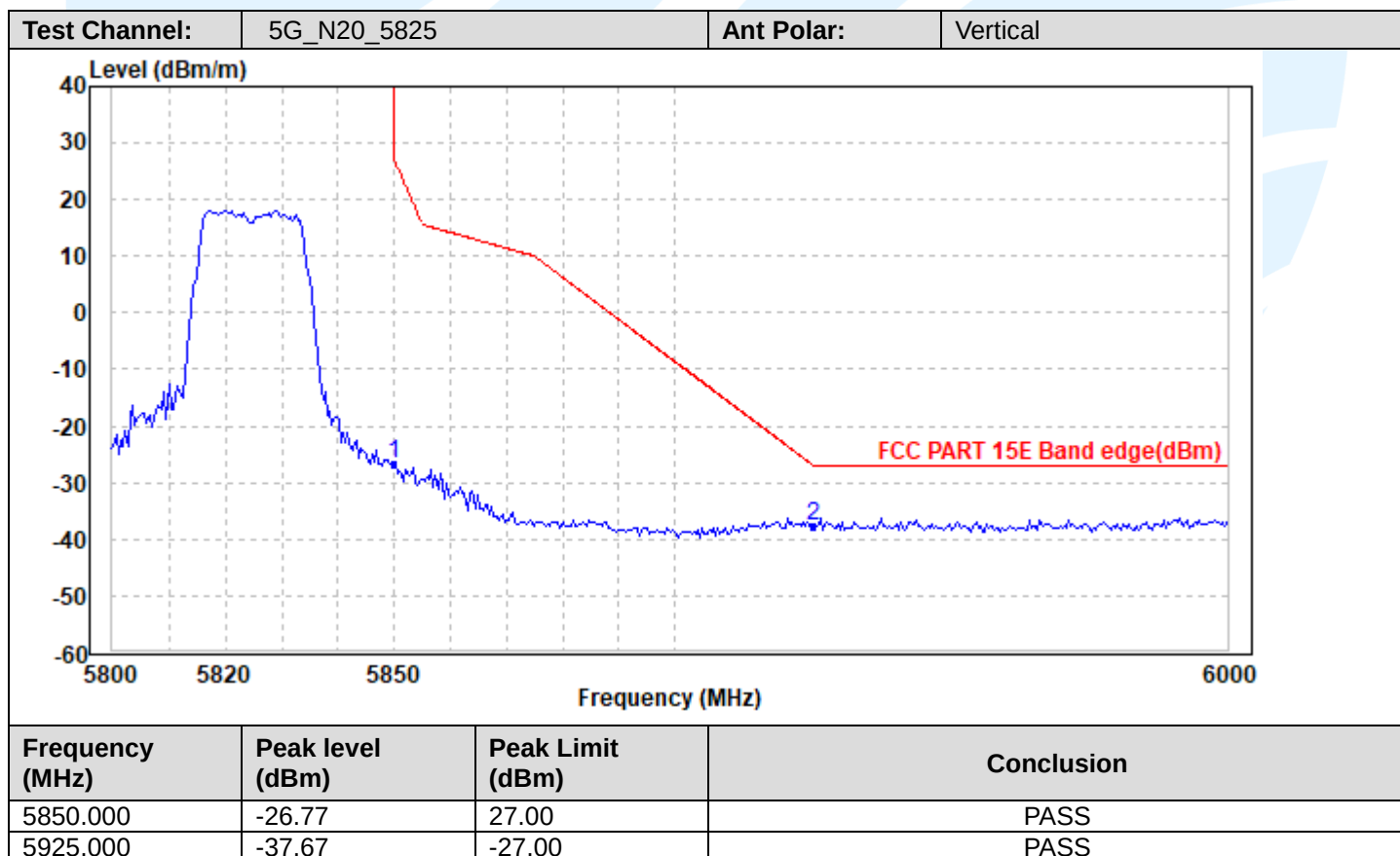
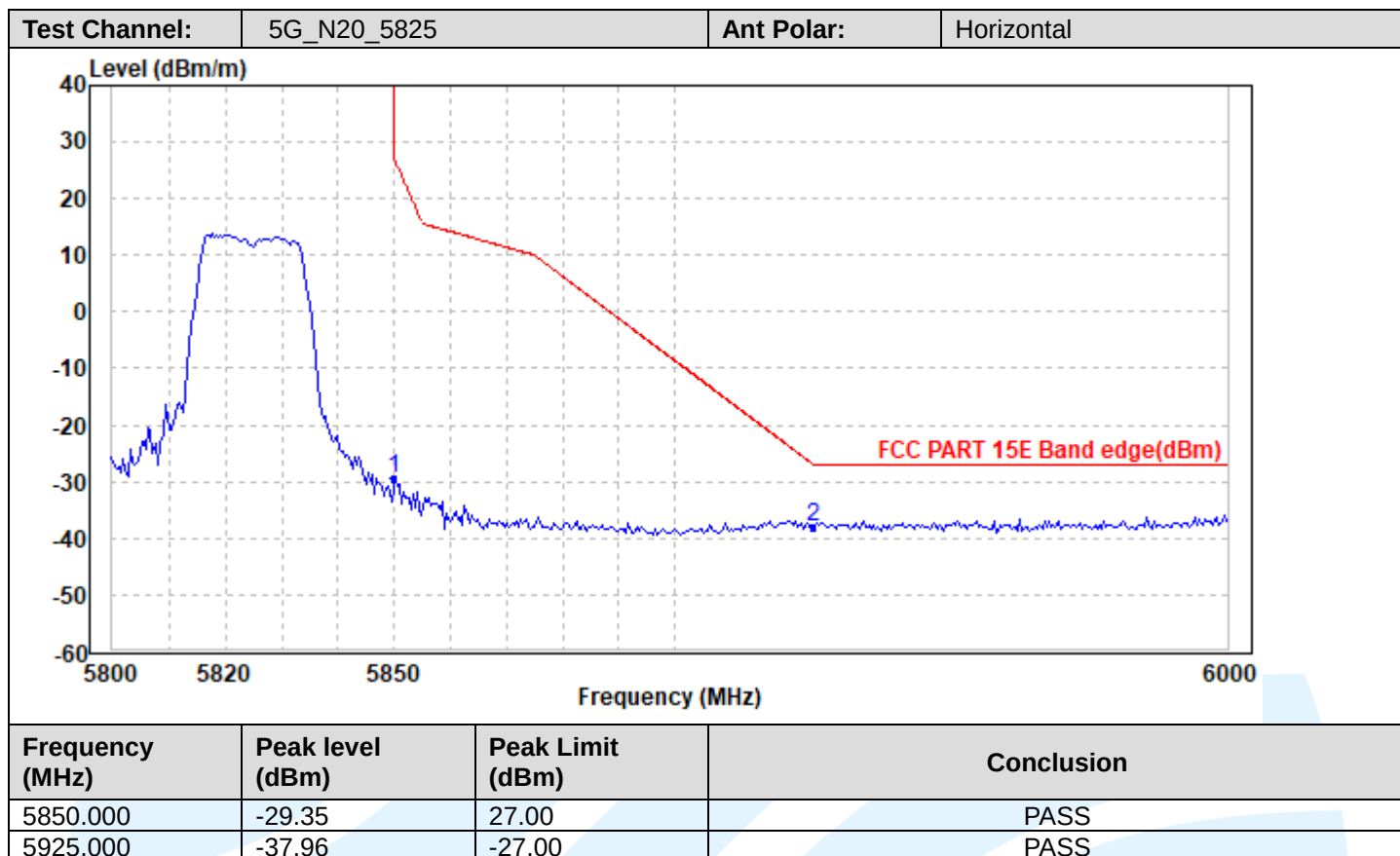
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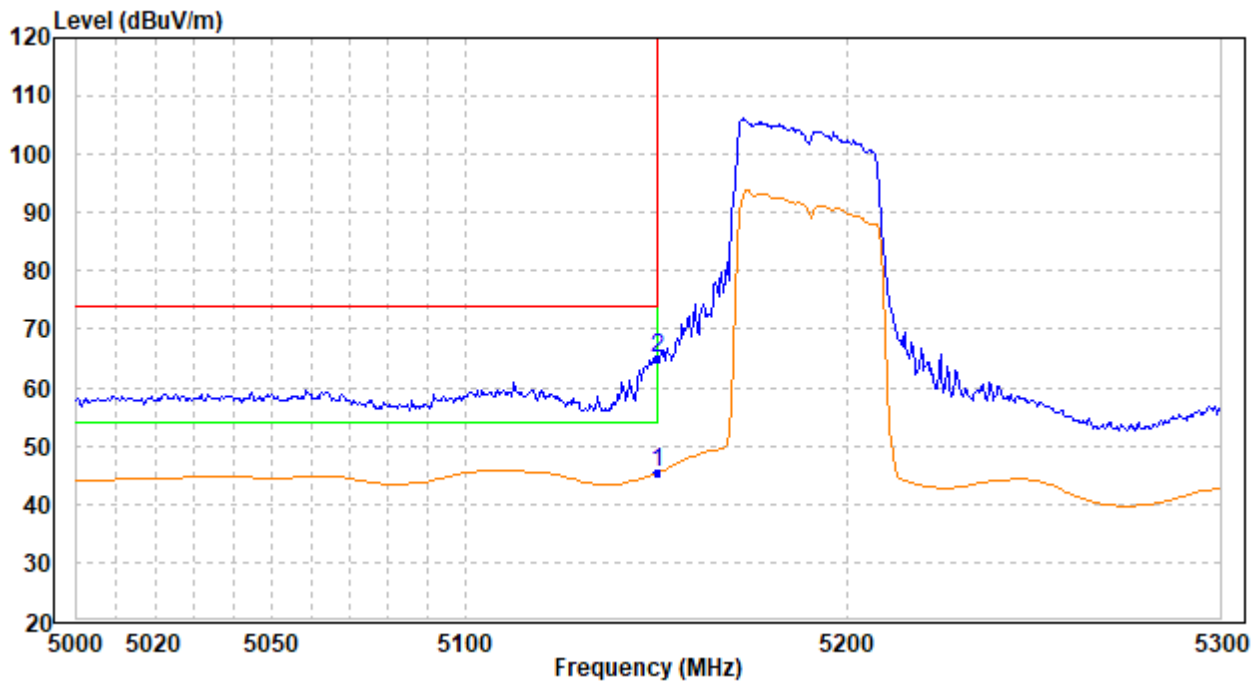
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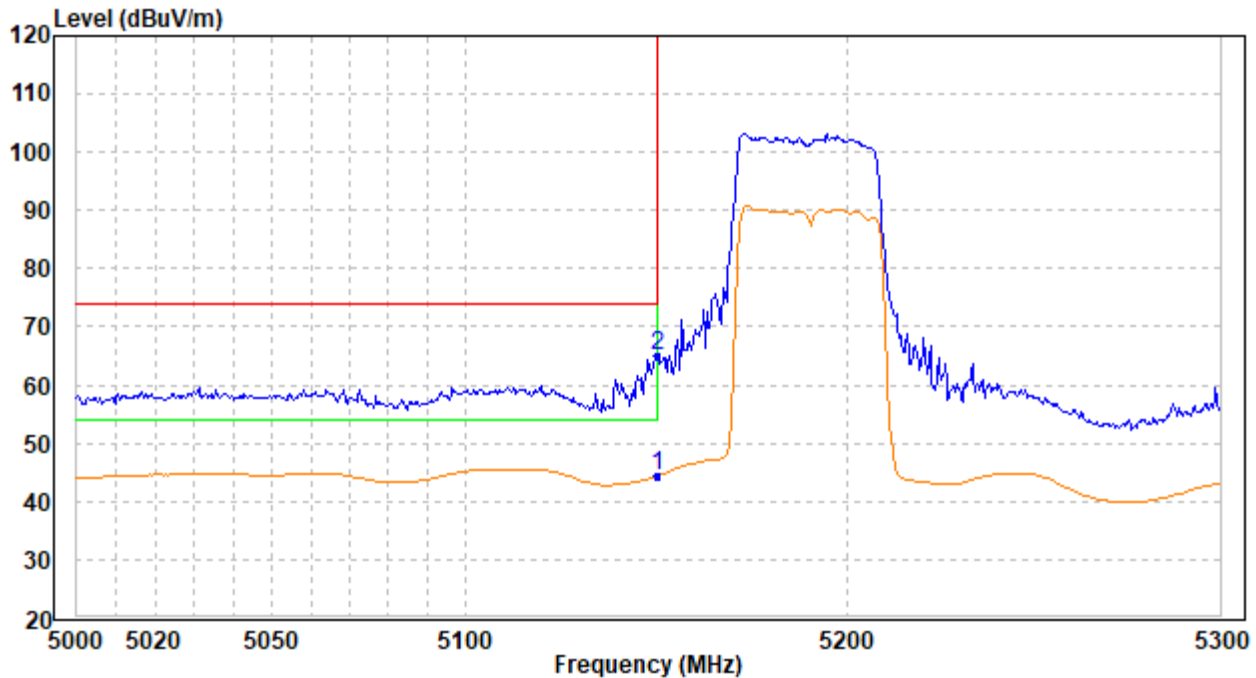


Test Channel:	5G_N40_5190	Ant Polar:	Horizontal
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Frequency (MHz)	Peak level (dBuV/m)	Peak Limit (dBuV/m)	AV level (dBuV/m)	AV Limit (dBuV/m)	Conclusion
5150.000	65.01	74.00	45.31	54.00	PASS

Test Channel:	5G_N40_5190	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	64.86	74.00	44.32	54.00	PASS

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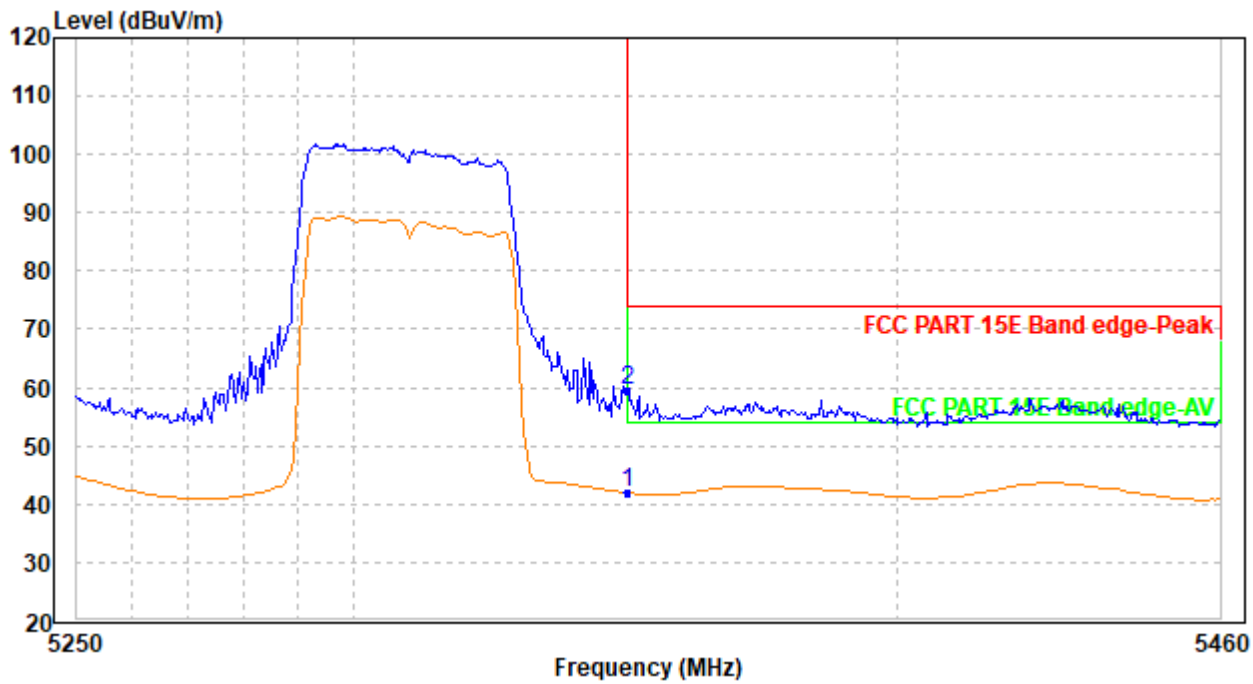
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<http://www.uttlab.com>

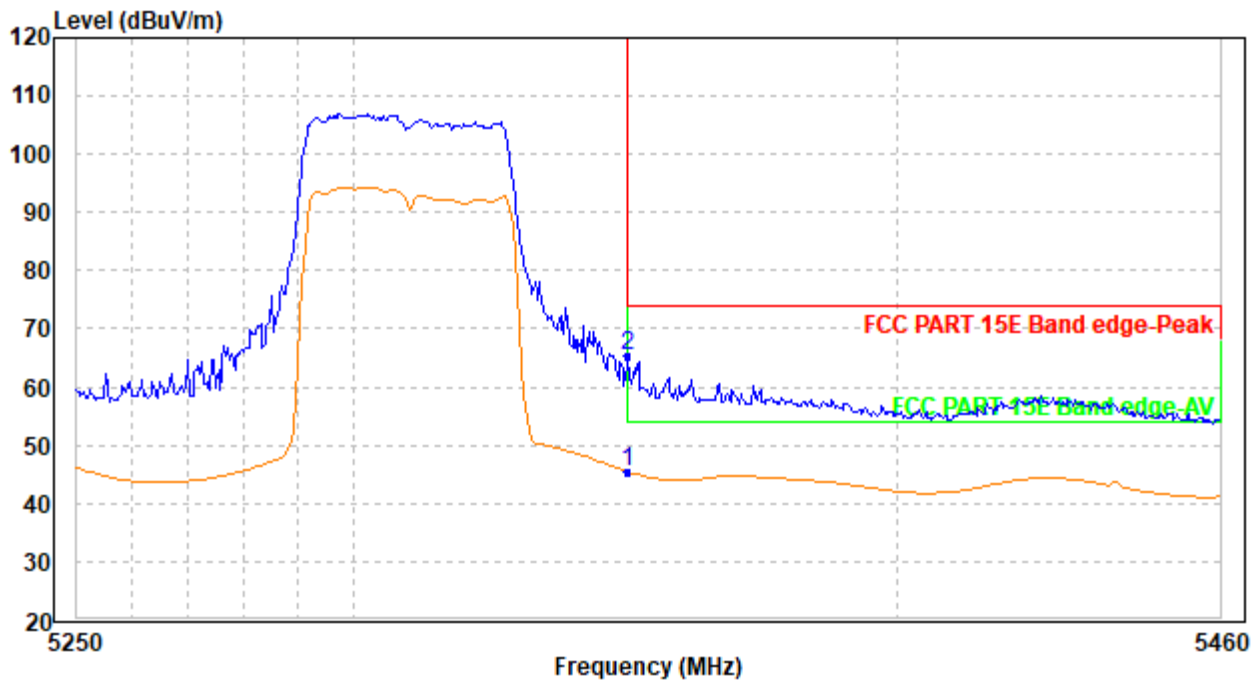
UTTR-RF-RSS247-V1.1

Test Channel:	5G_N40_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	59.35	74.00	41.92	54.00	PASS

Test Channel:	5G_N40_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	65.48	74.00	45.46	54.00	PASS

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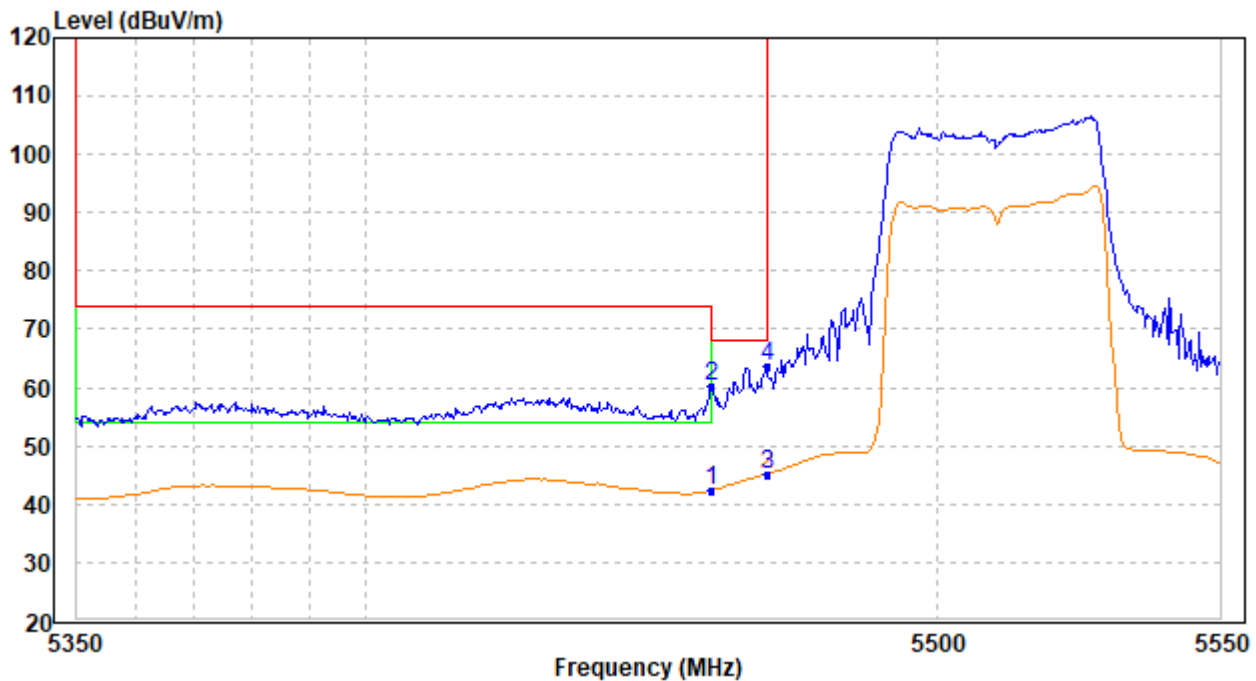
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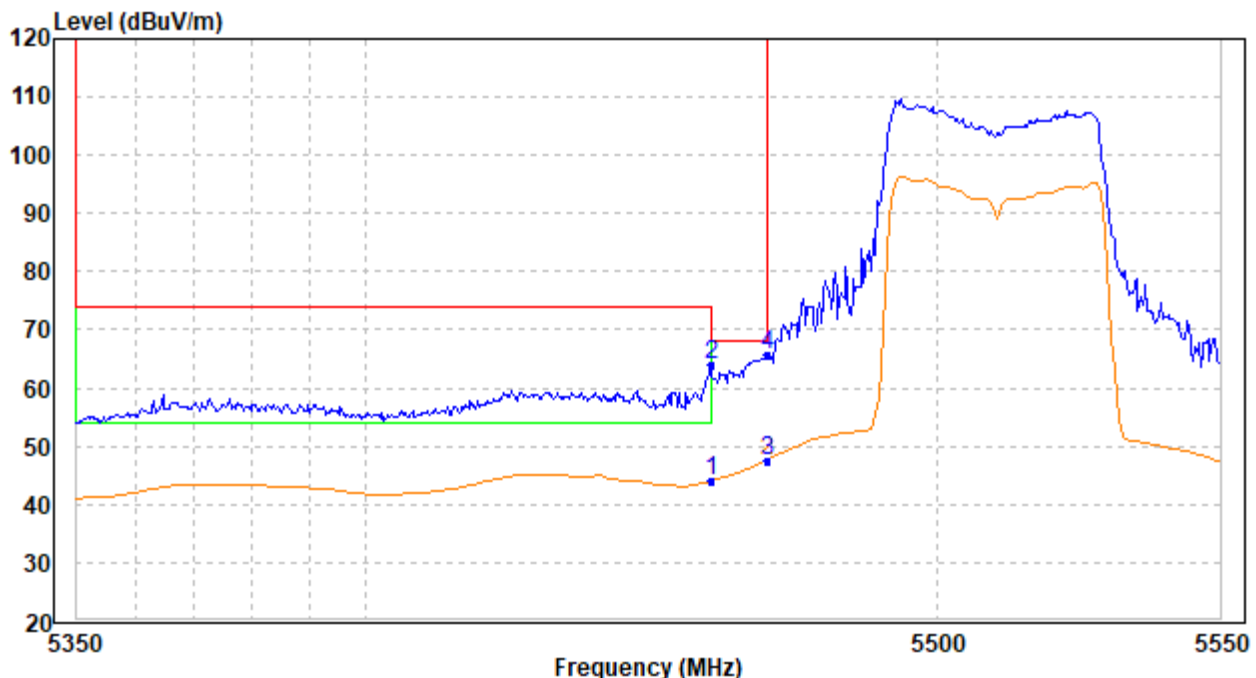
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Test Channel:	5G_N40_5510	Ant Polar:	Horizontal
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Frequency (MHz)	Peak level (dBuV/m)	Peak Limit (dBuV/m)	AV level (dBuV/m)	AV Limit (dBuV/m)	Conclusion
5460.000	60.35	68.20	42.30	54.00	PASS
5470.000	63.48	68.20	45.19	68.20	PASS

Test Channel:	5G_N40_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	63.87	68.20	43.96	54.00	PASS
5470.000	65.56	68.20	47.59	68.20	PASS

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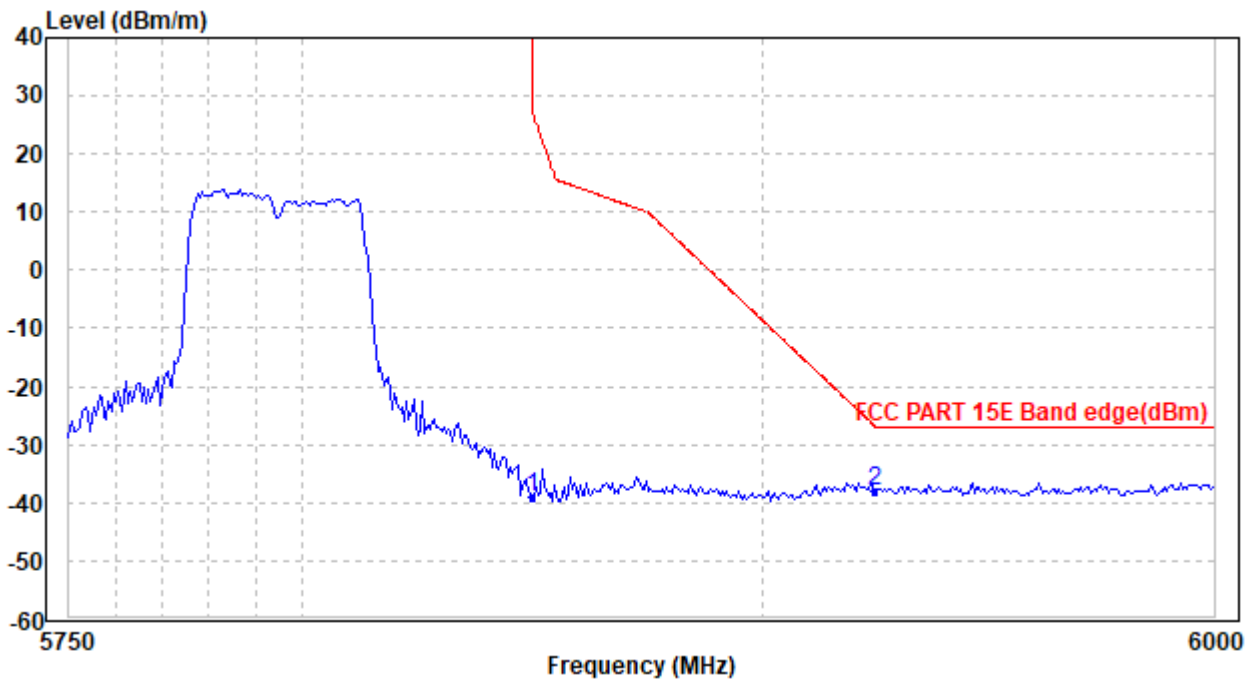
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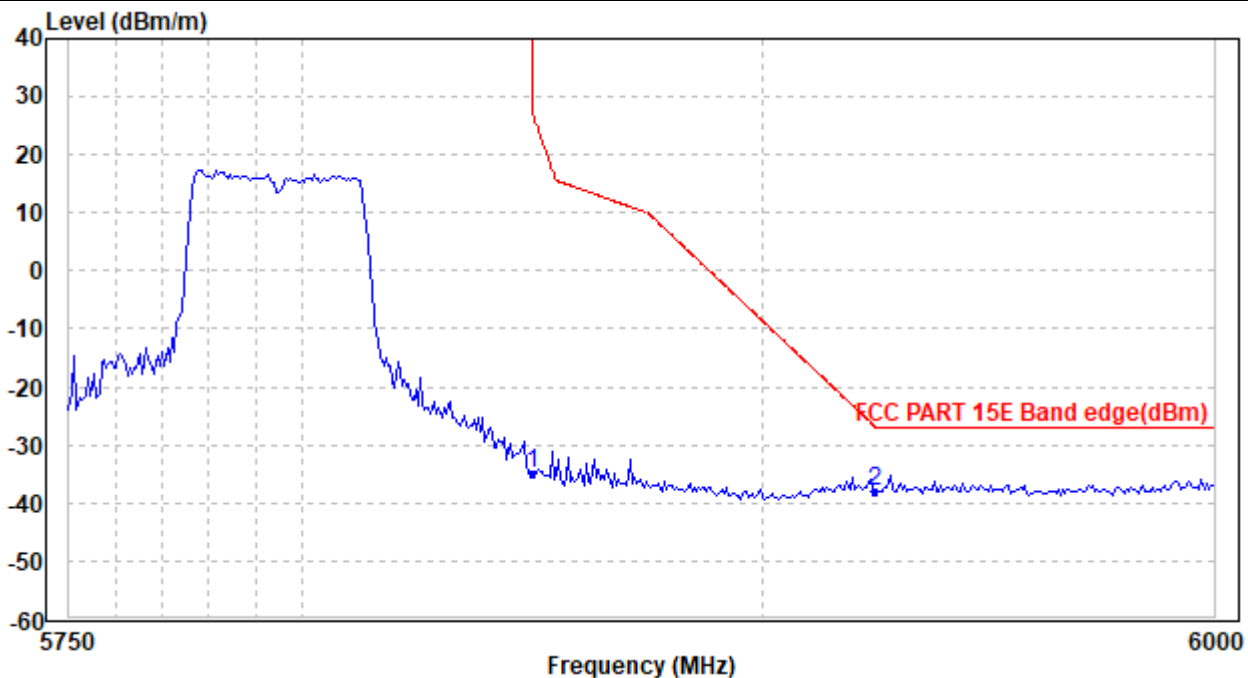
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Test Channel:	5G_N40_5795	Ant Polar:	Horizontal
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Frequency (MHz)	Peak level (dBm)	Peak Limit (dBm)	Conclusion
5850.000	-38.91	27.00	PASS
5925.000	-37.85	-27.00	PASS

Test Channel:	5G_N40_5795	Ant Polar:	Vertical
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Frequency (MHz)	Peak level (dBm)	Peak Limit (dBm)	Conclusion
5850.000	-35.01	27.00	PASS
5925.000	-37.85	-27.00	PASS

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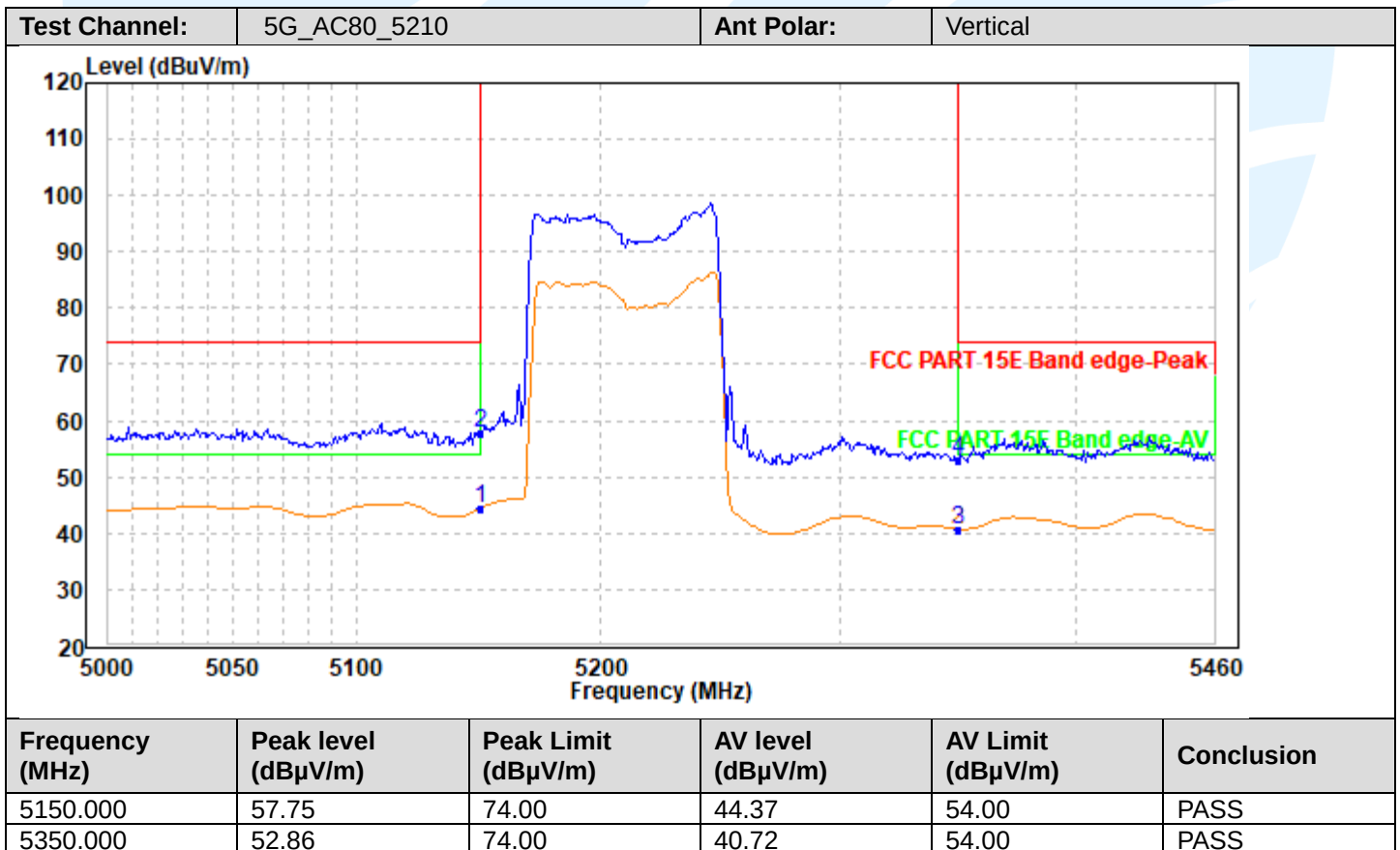
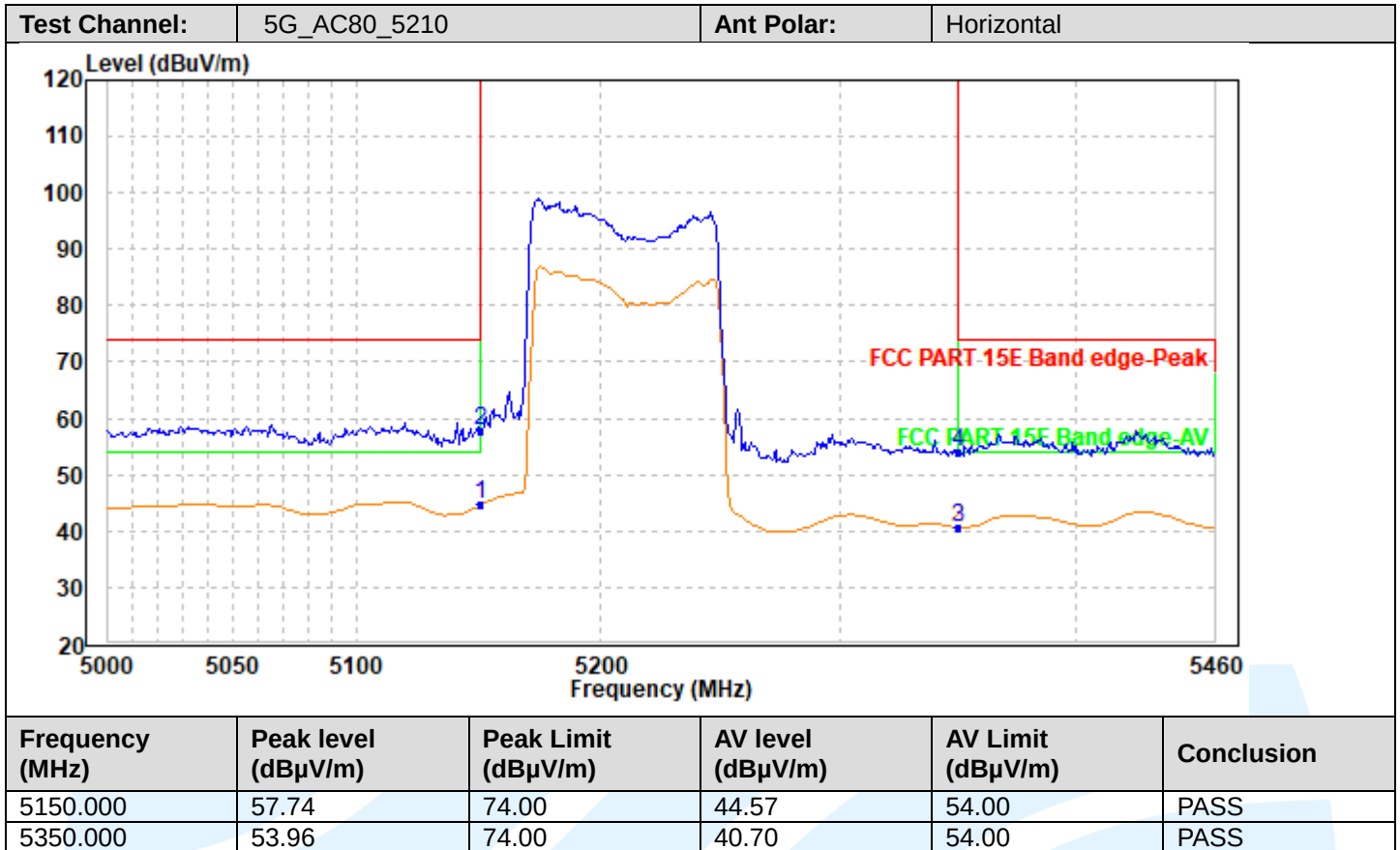
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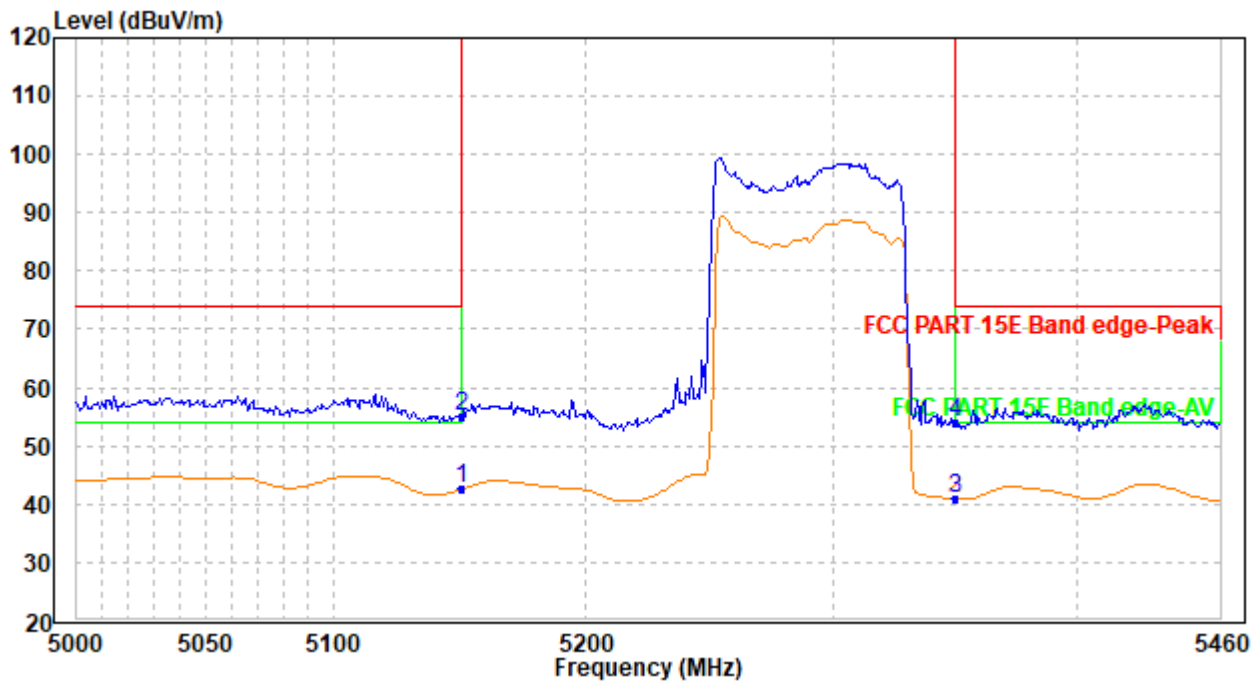
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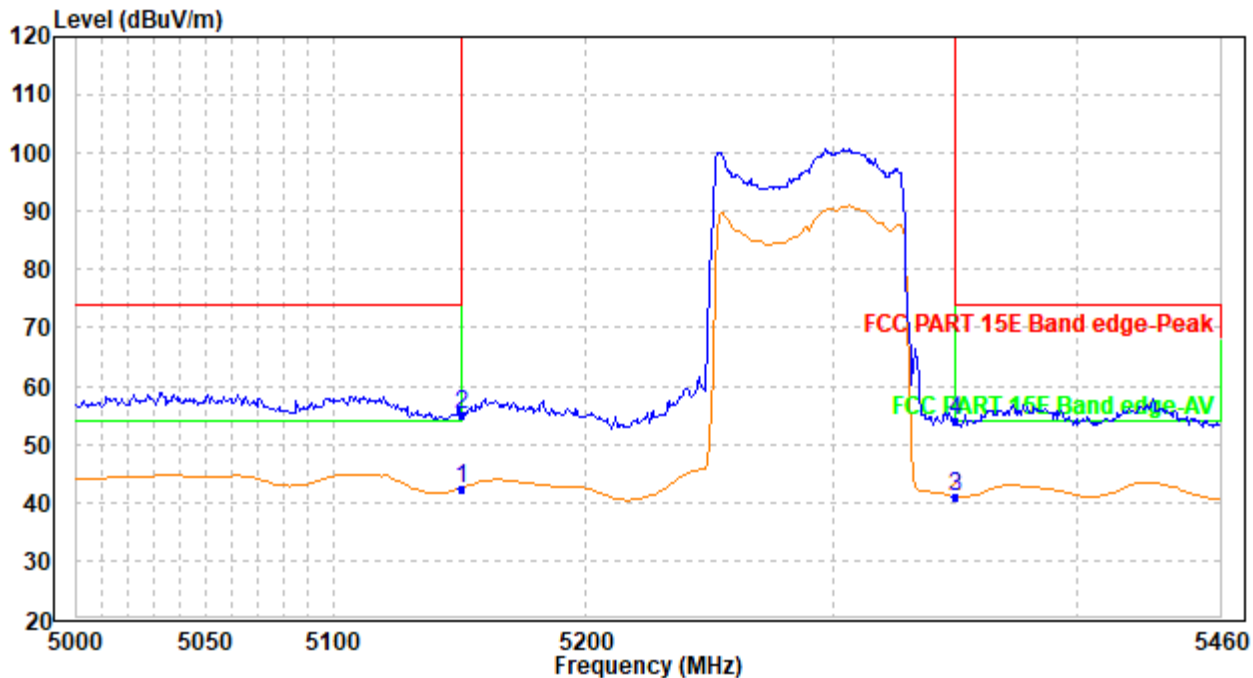


Test Channel:	5G_AC80_5290	Ant Polar:	Horizontal
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Frequency (MHz)	Peak level (dB μ V/m)	Peak Limit (dB μ V/m)	AV level (dB μ V/m)	AV Limit (dB μ V/m)	Conclusion
5150.000	55.08	74.00	42.52	54.00	PASS
5350.000	54.02	74.00	40.85	54.00	PASS

Test Channel:	5G_AC80_5290	Ant Polar:	Vertical
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Frequency (MHz)	Peak level (dB μ V/m)	Peak Limit (dB μ V/m)	AV level (dB μ V/m)	AV Limit (dB μ V/m)	Conclusion
5150.000	55.03	74.00	42.47	54.00	PASS
5350.000	54.08	74.00	41.04	54.00	PASS

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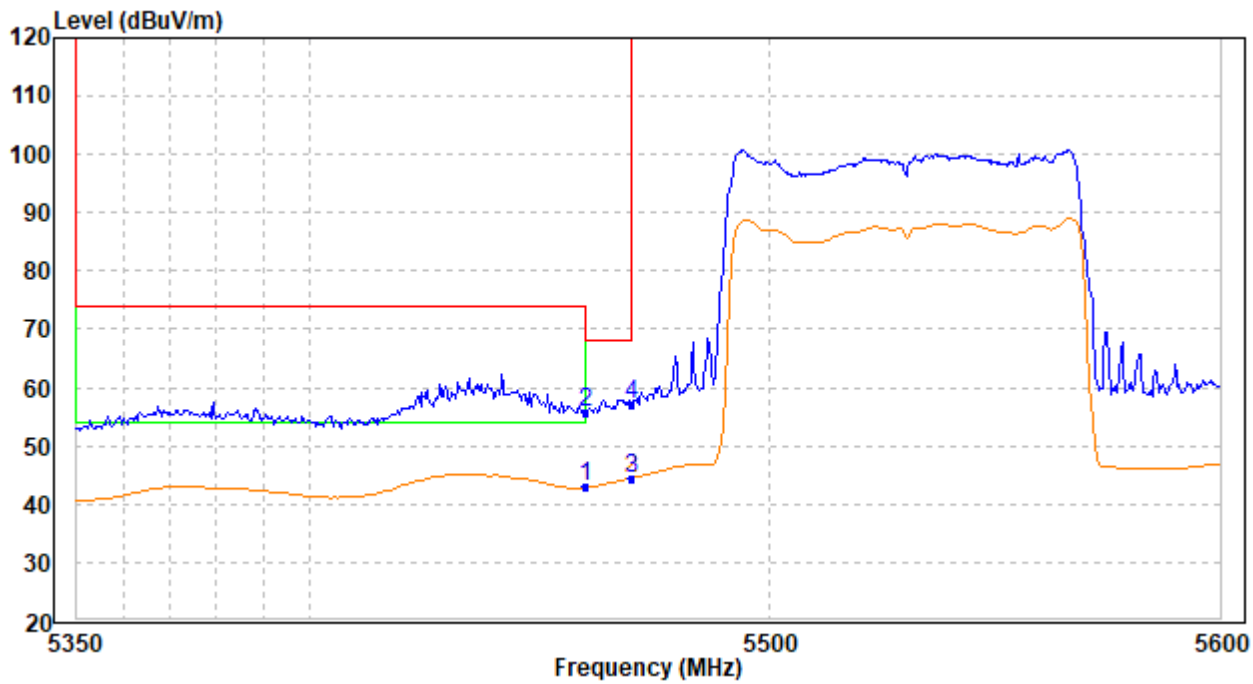
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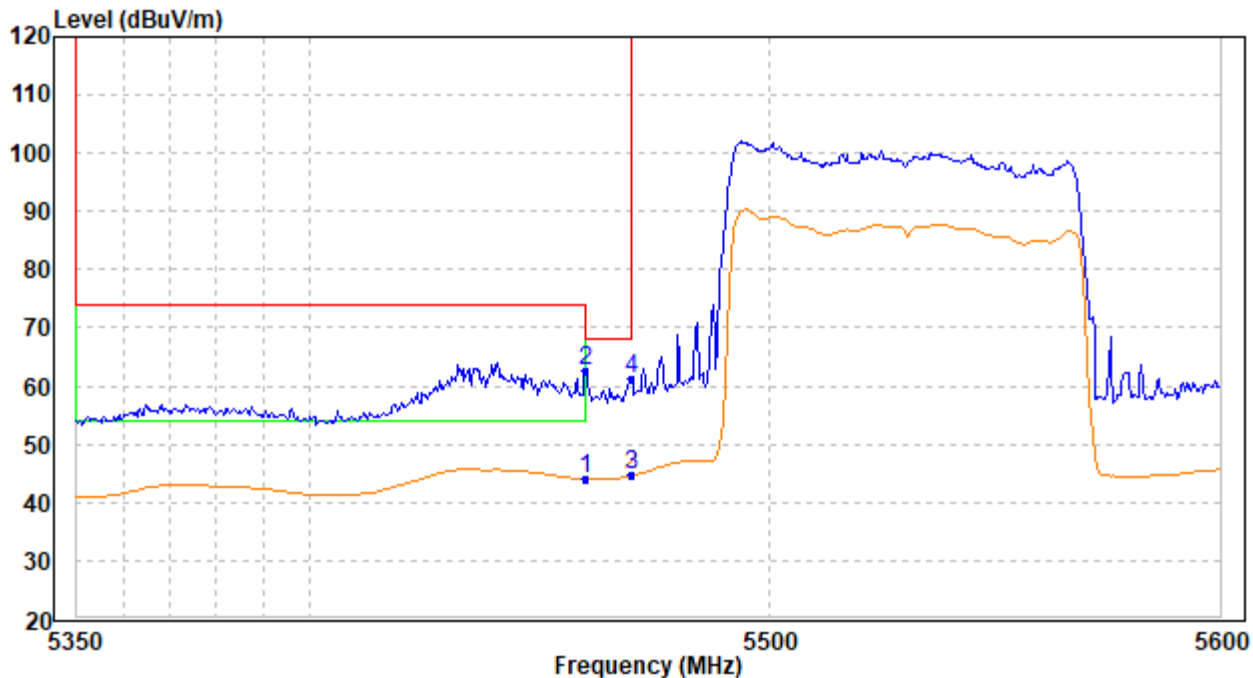
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Test Channel:	5G_AC80_5530	Ant Polar:	Horizontal
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Frequency (MHz)	Peak level (dB μ V/m)	Peak Limit (dB μ V/m)	AV level (dB μ V/m)	AV Limit (dB μ V/m)	Conclusion
5460.000	55.70	68.20	42.88	54.00	PASS
5470.000	57.06	68.20	44.54	68.20	PASS

Test Channel:	5G_AC80_5530	Ant Polar:	Vertical
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Frequency (MHz)	Peak level (dB μ V/m)	Peak Limit (dB μ V/m)	AV level (dB μ V/m)	AV Limit (dB μ V/m)	Conclusion
5460.000	62.71	68.20	43.98	54.00	PASS
5470.000	61.34	68.20	44.62	68.20	PASS

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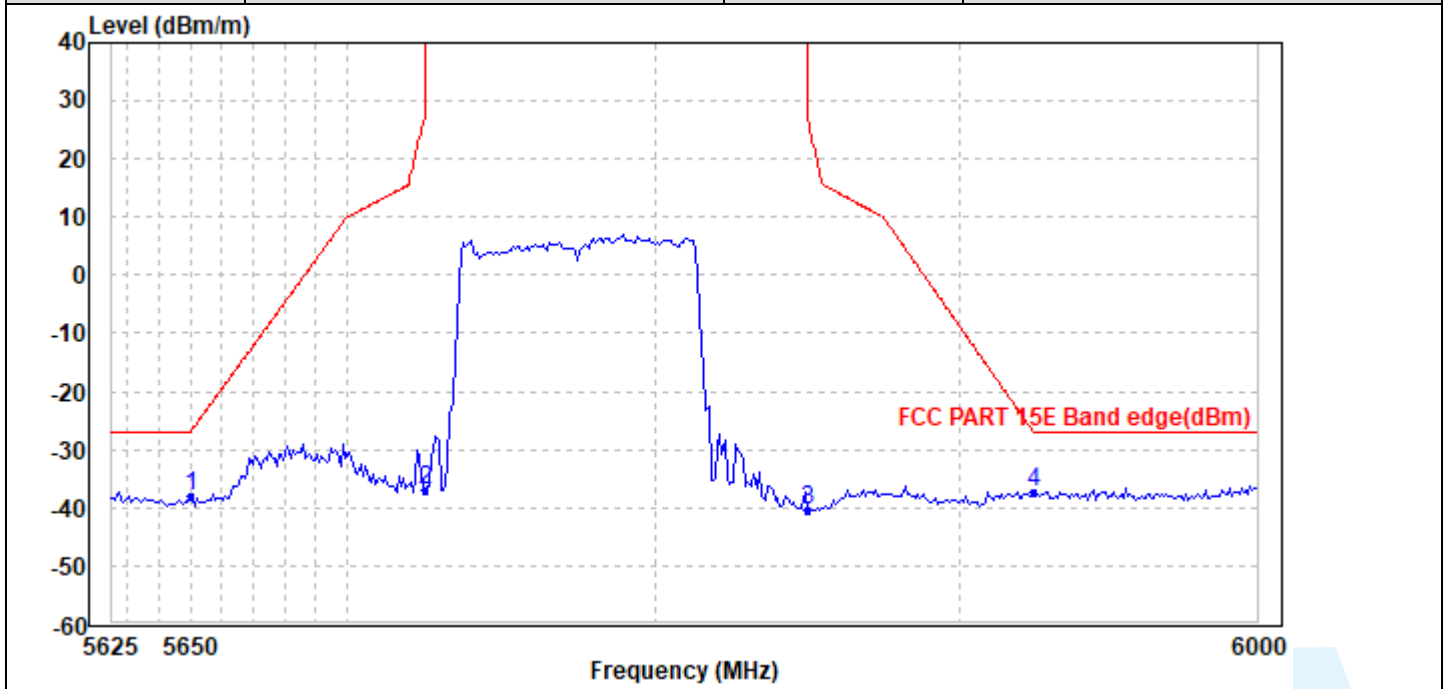
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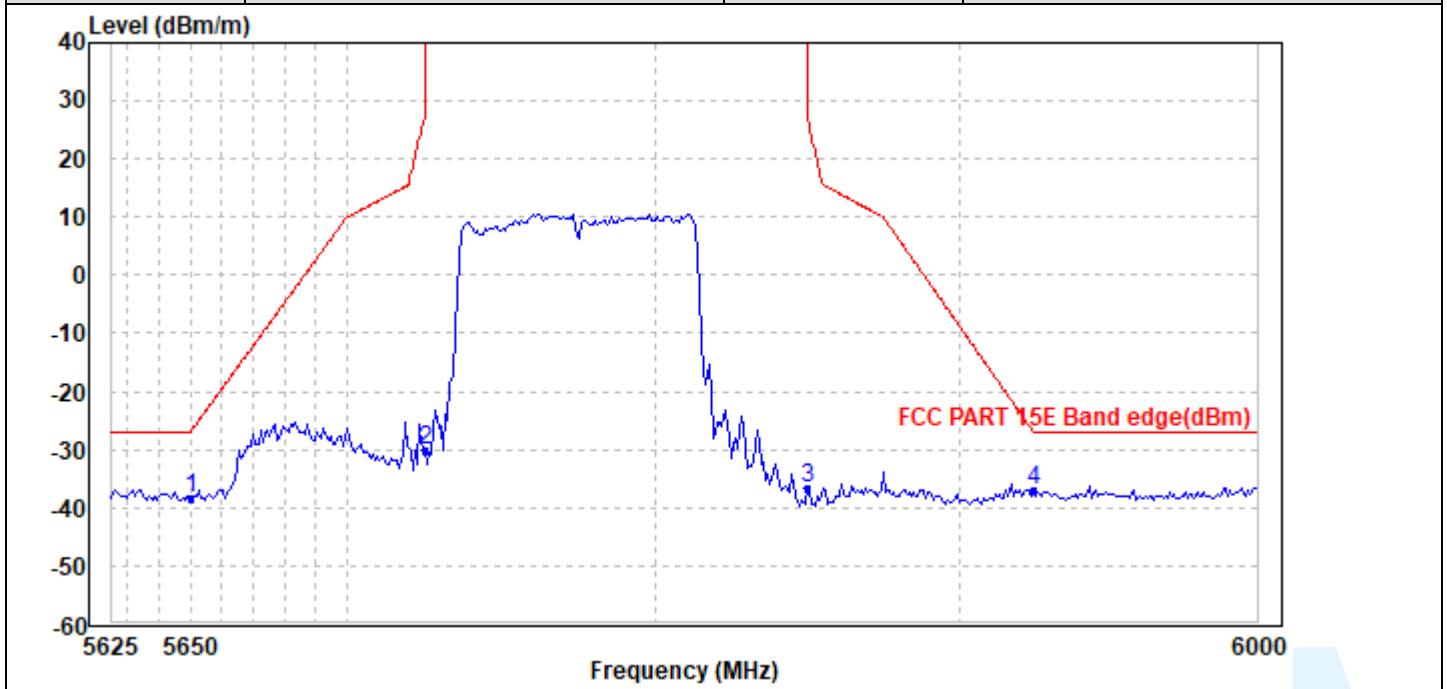
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Test Channel:	5G_AC80_5775	Ant Polar:	Horizontal
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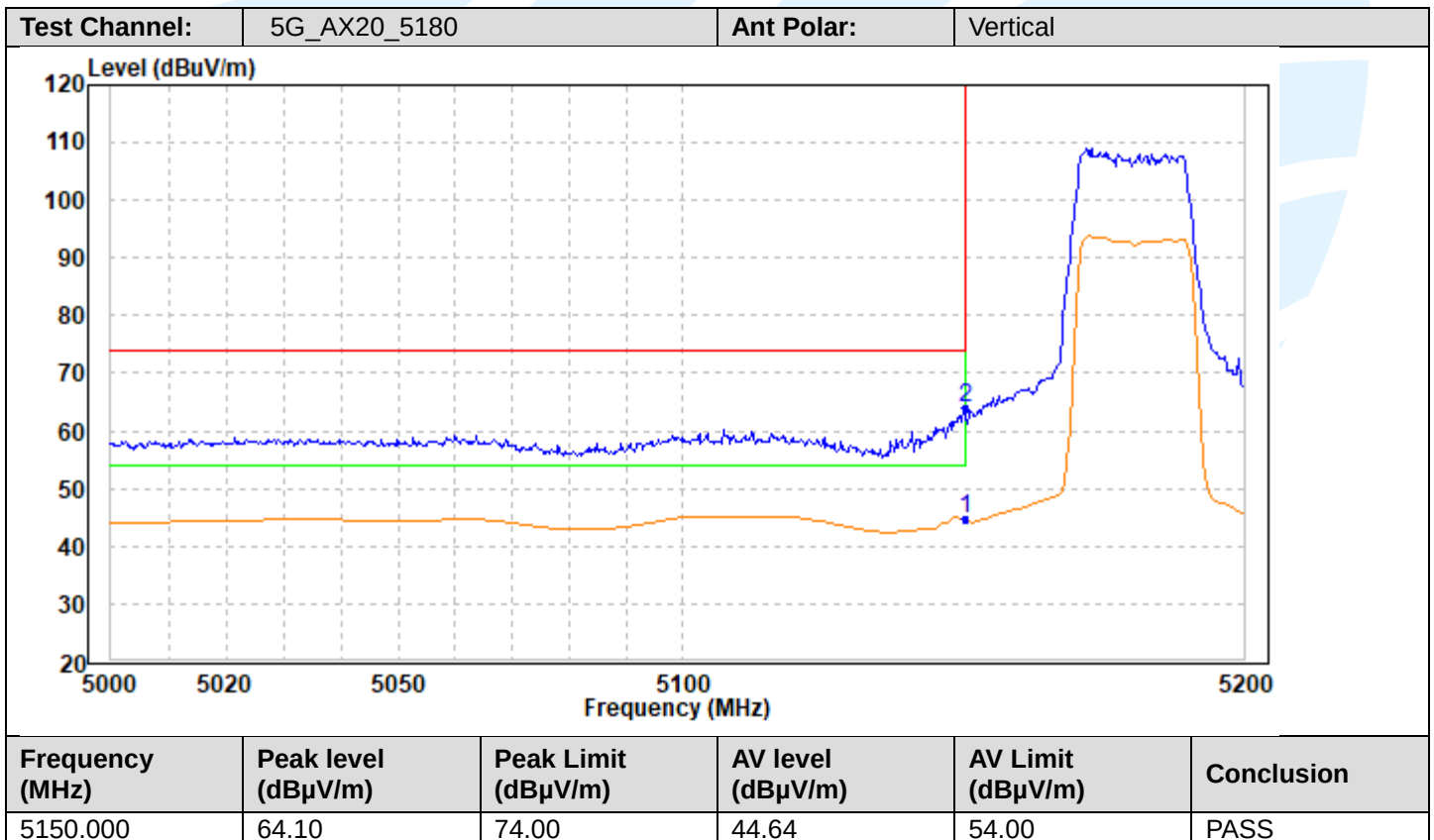
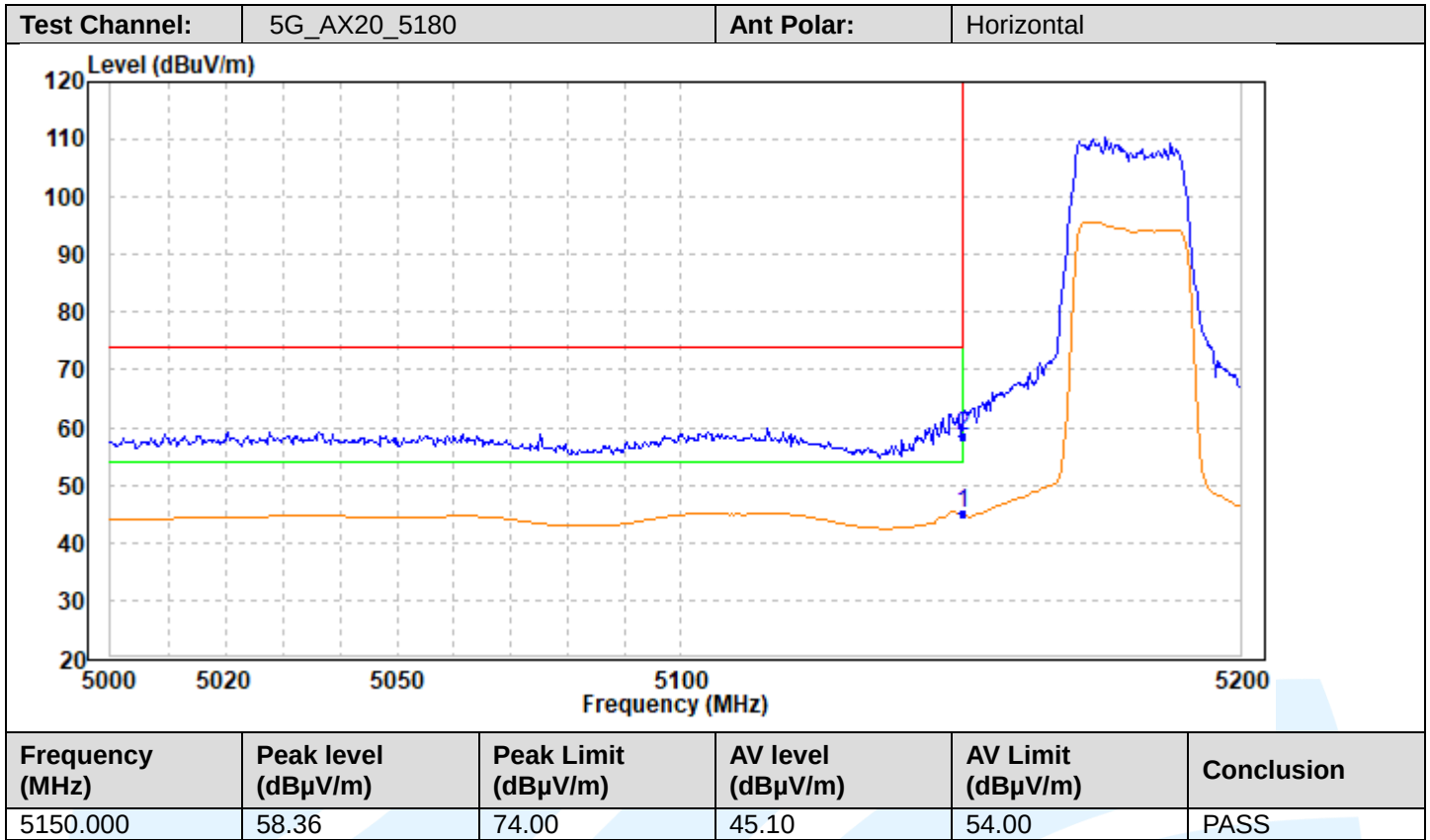


Frequency (MHz)	Peak level (dBm)	Peak Limit (dBm)	Conclusion
5650.000	-38.13	-27.00	PASS
5725.000	-36.83	27.00	PASS
5850.000	-40.28	27.00	PASS
5925.000	-37.18	-27.00	PASS

Test Channel:	5G_AC80_5775	Ant Polar:	Vertical
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Frequency (MHz)	Peak level (dBm)	Peak Limit (dBm)	Conclusion
5650.000	-38.47	-27.00	PASS
5725.000	-30.00	27.00	PASS
5850.000	-36.69	27.00	PASS
5925.000	-36.89	-27.00	PASS



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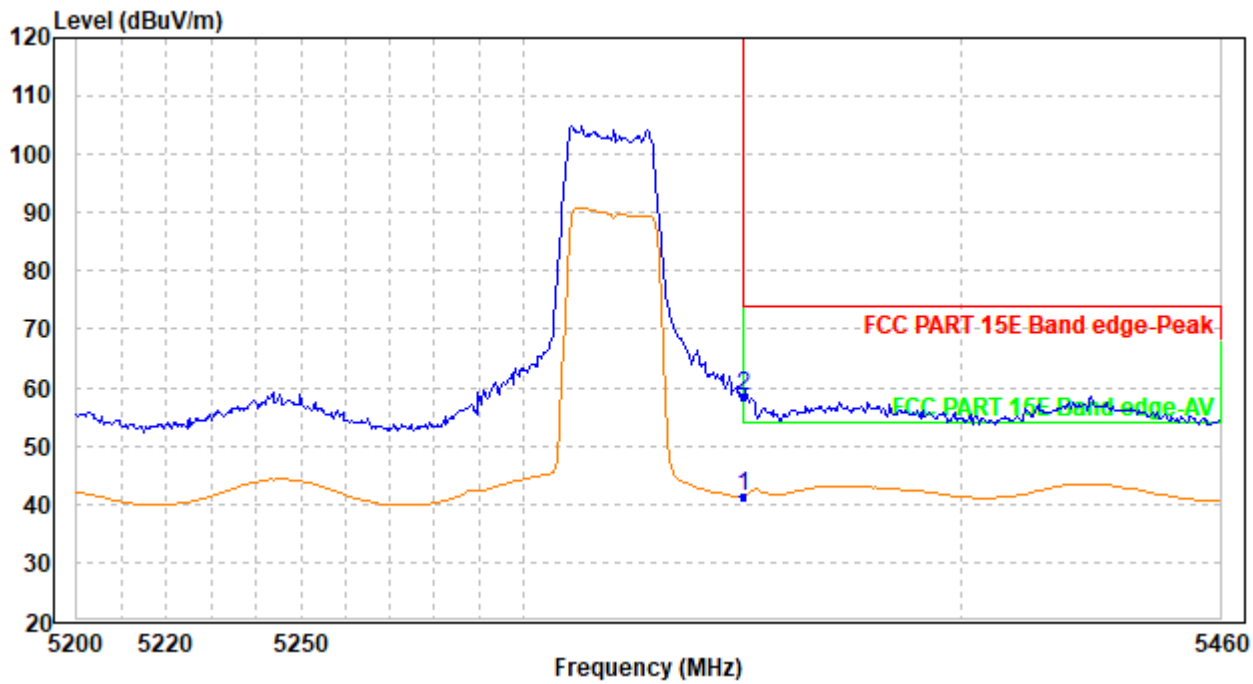
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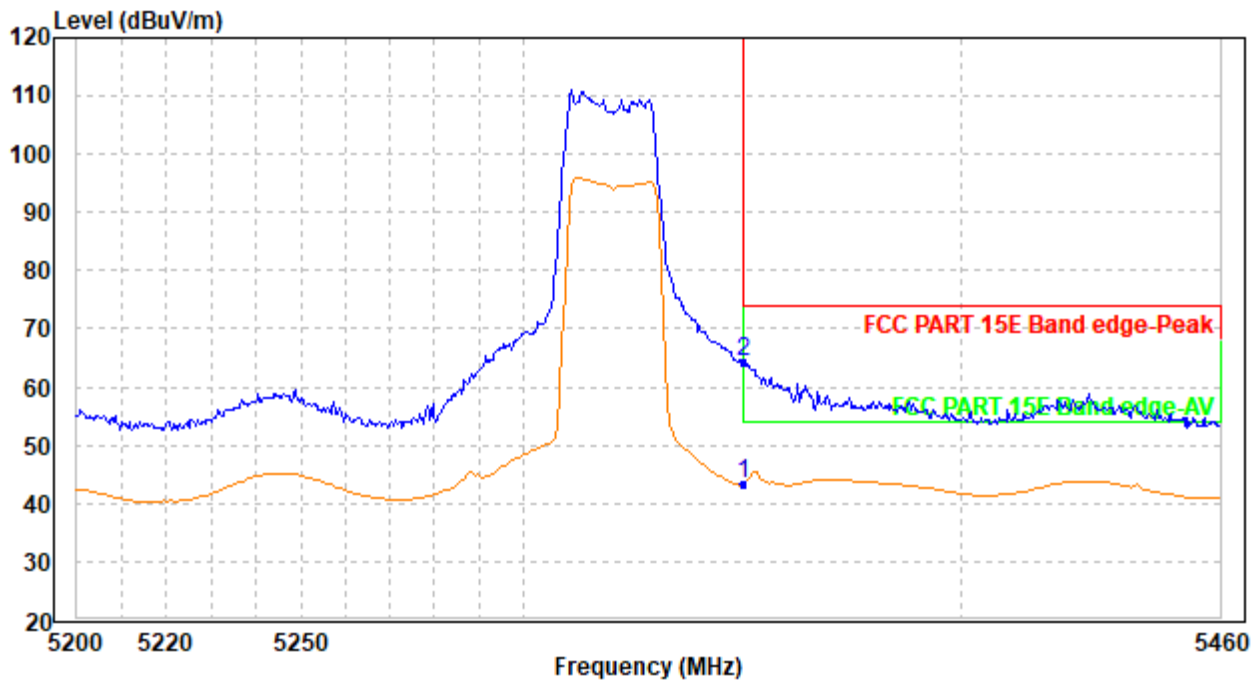
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Test Channel:	5G_AX20_5320	Ant Polar:	Horizontal
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Frequency (MHz)	Peak level (dBuV/m)	Peak Limit (dBuV/m)	AV level (dBuV/m)	AV Limit (dBuV/m)	Conclusion
5350.000	58.56	74.00	41.36	54.00	PASS

Test Channel:	5G_AX20_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	64.31	74.00	43.21	54.00	PASS

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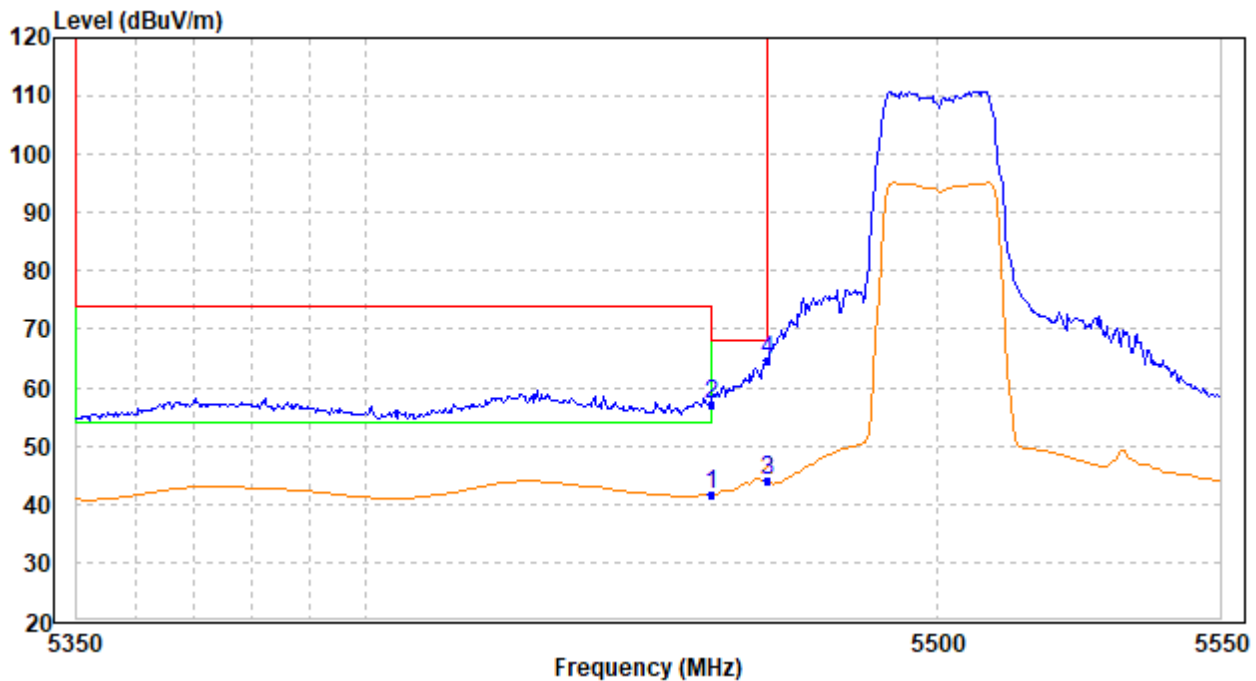
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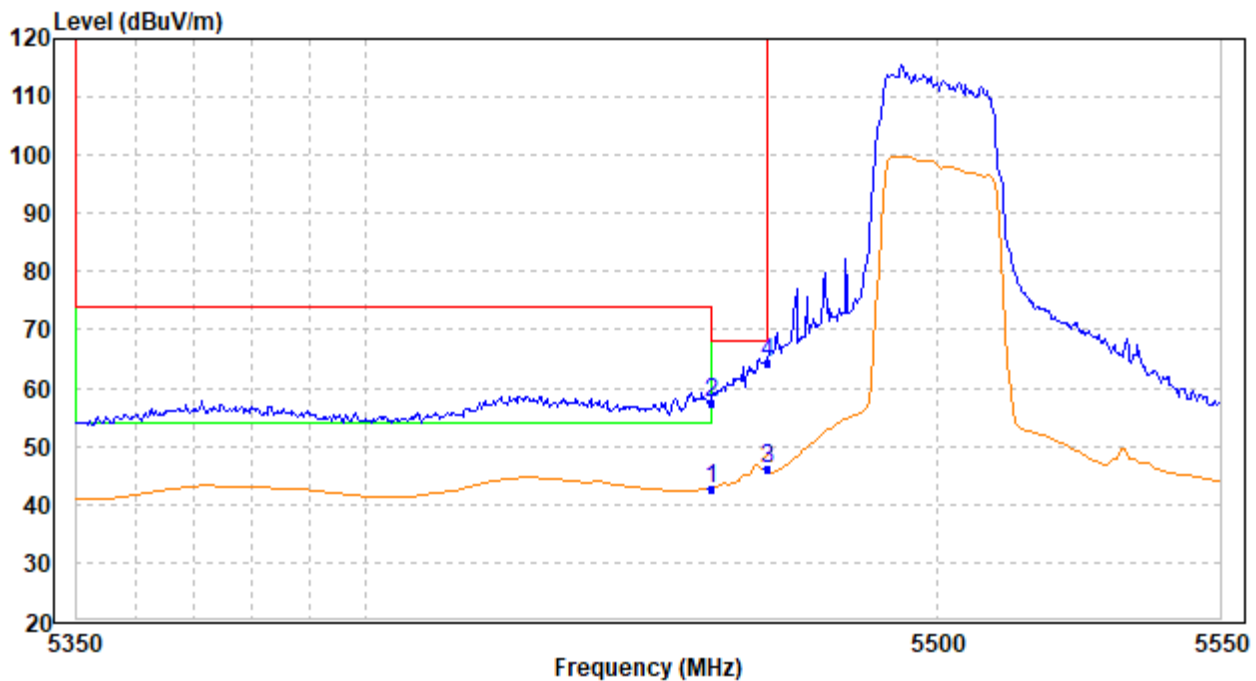
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Test Channel:	5G_AX20_5500	Ant Polar:	Horizontal
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Frequency (MHz)	Peak level (dBuV/m)	Peak Limit (dBuV/m)	AV level (dBuV/m)	AV Limit (dBuV/m)	Conclusion
5460.000	56.98	68.20	41.55	54.00	PASS
5470.000	64.77	68.20	44.01	68.20	PASS

Test Channel:	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	57.61	68.20	42.59	54.00	PASS
5470.000	64.21	68.20	46.14	68.20	PASS

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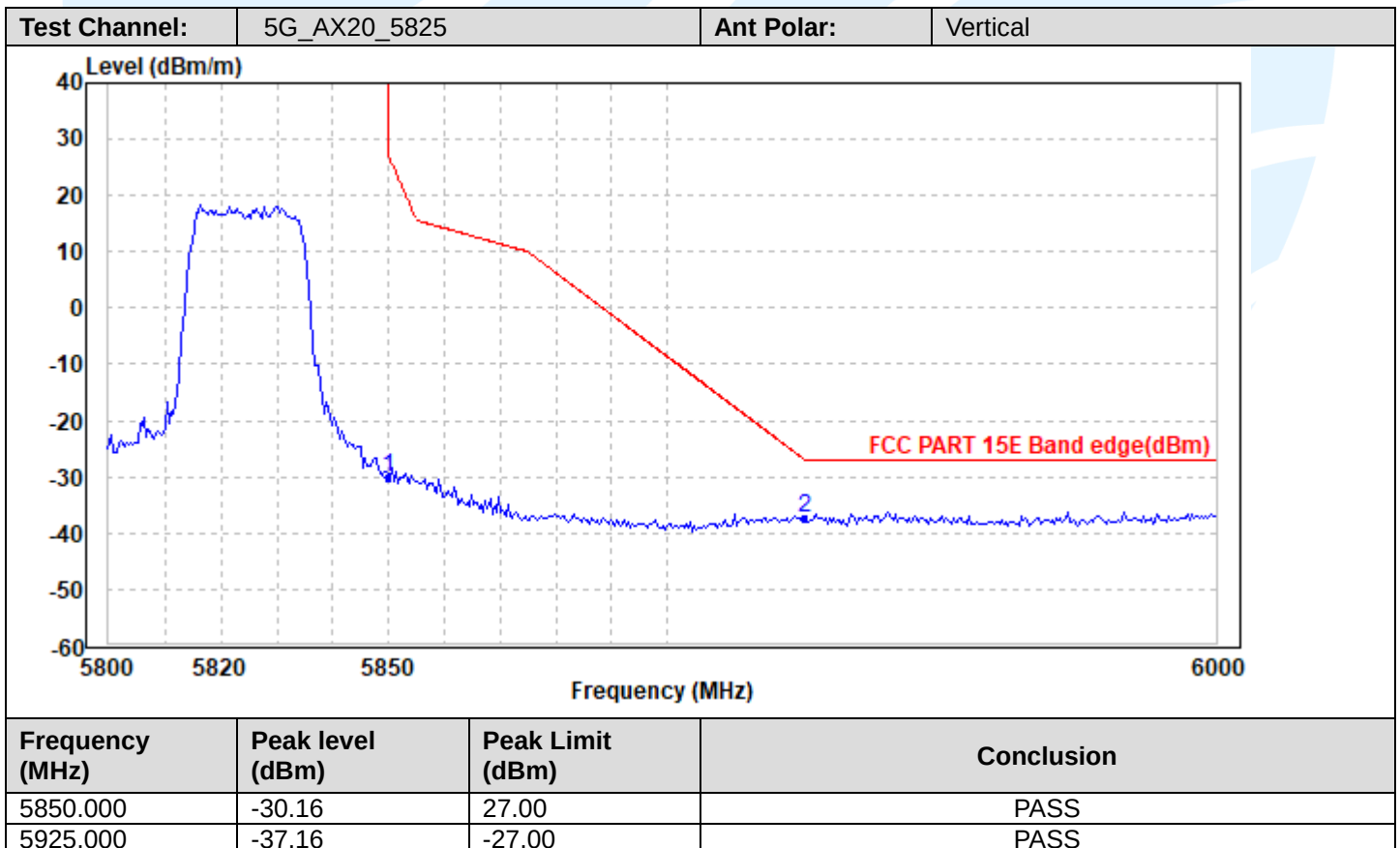
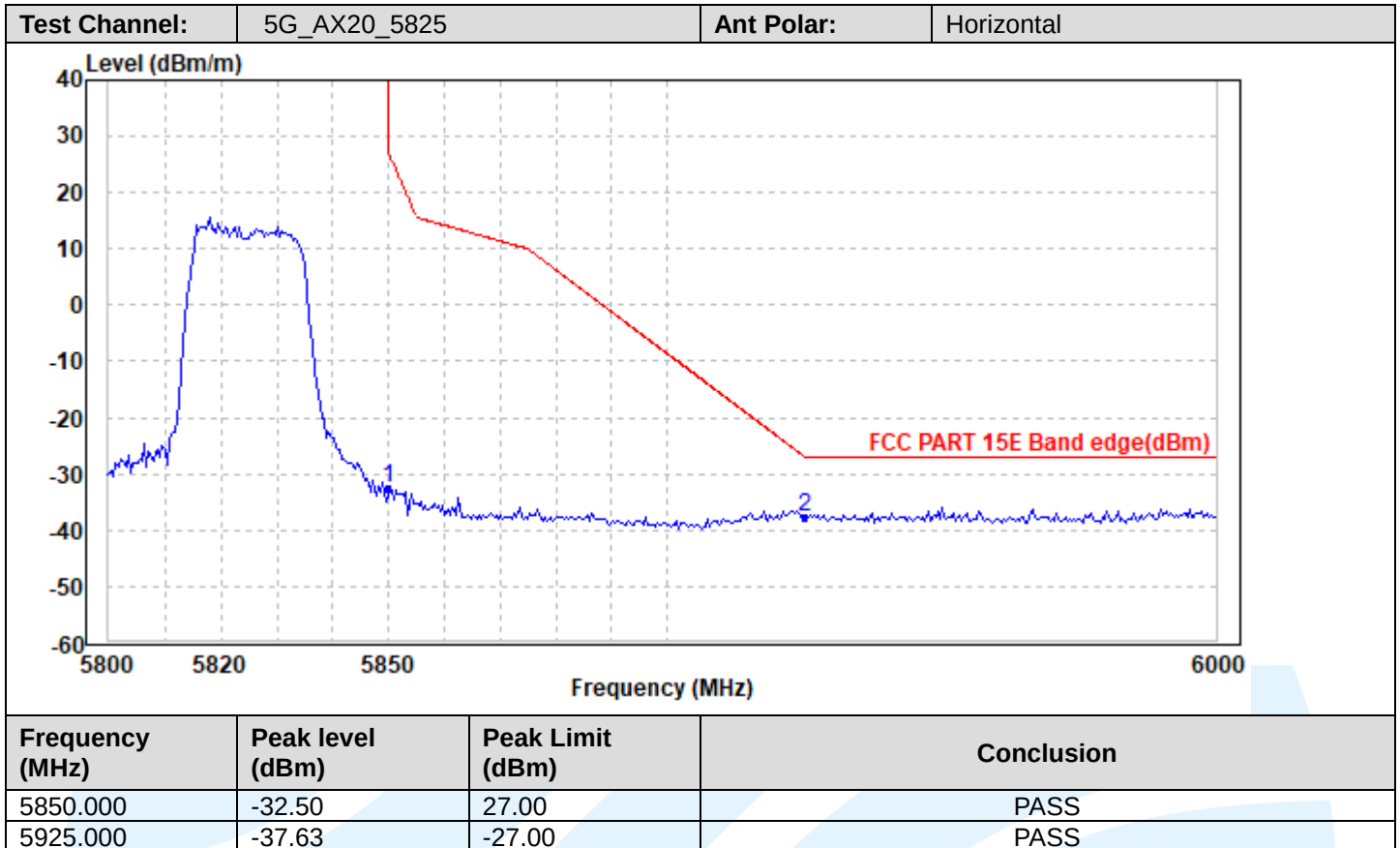
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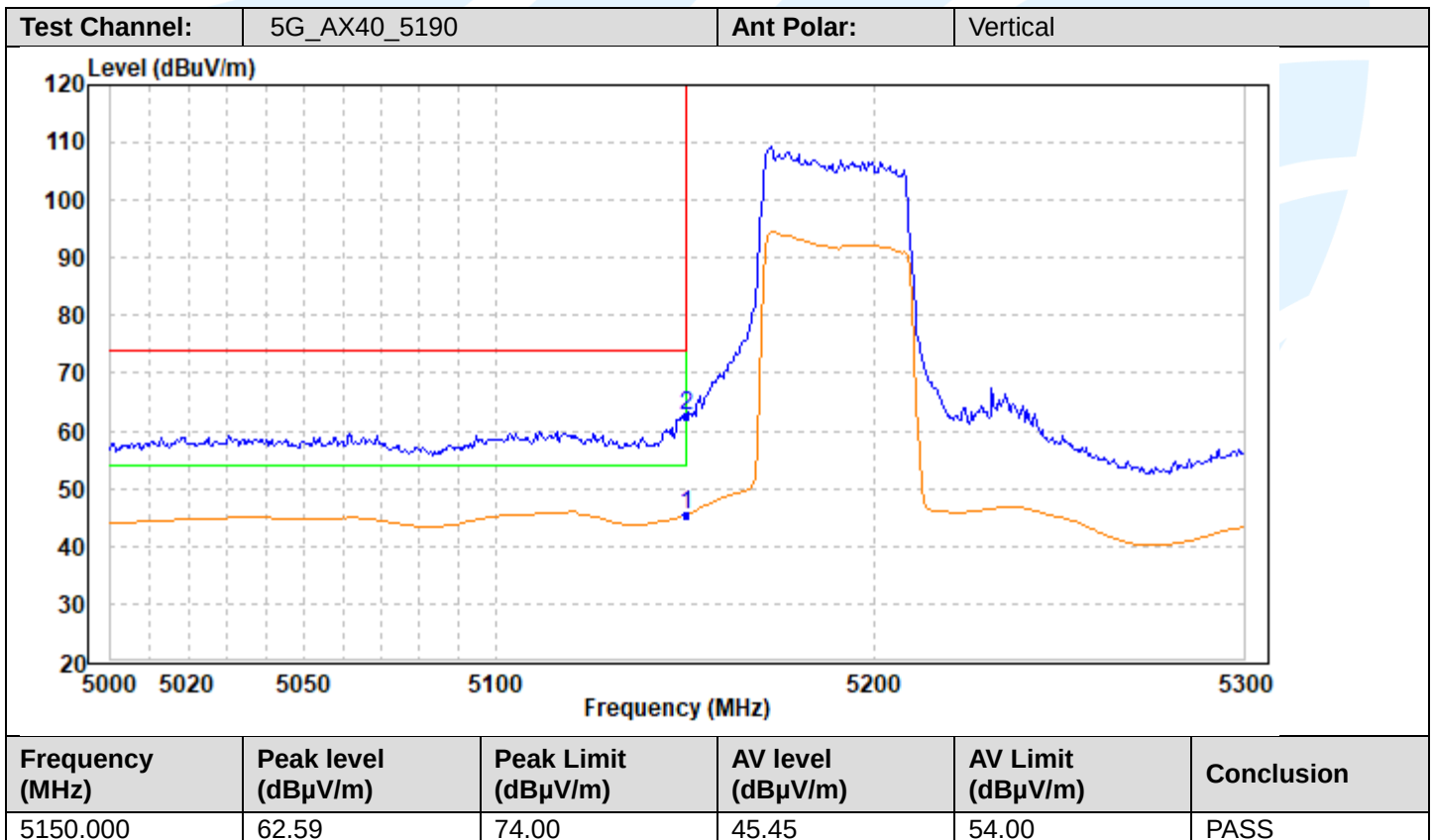
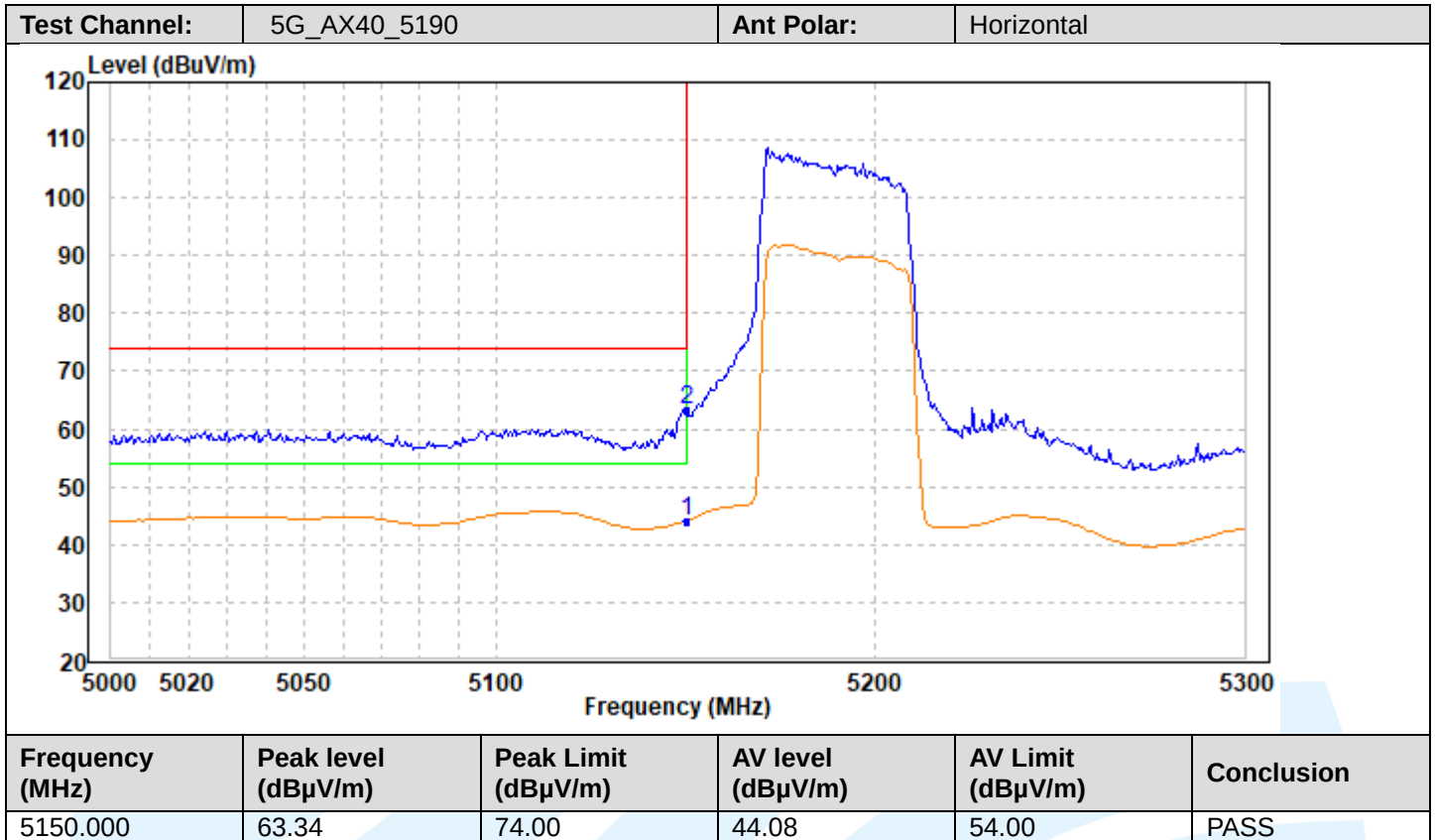
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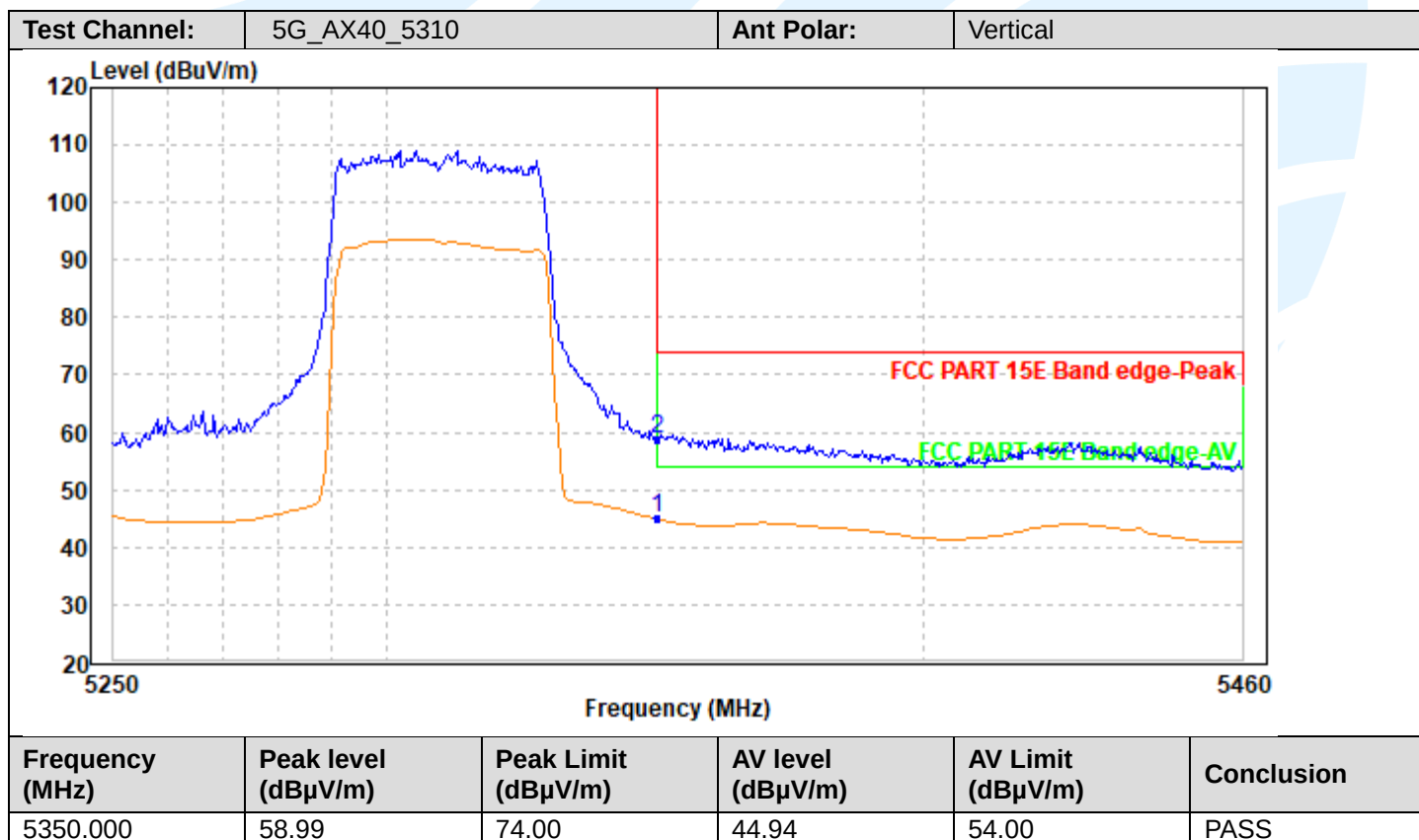
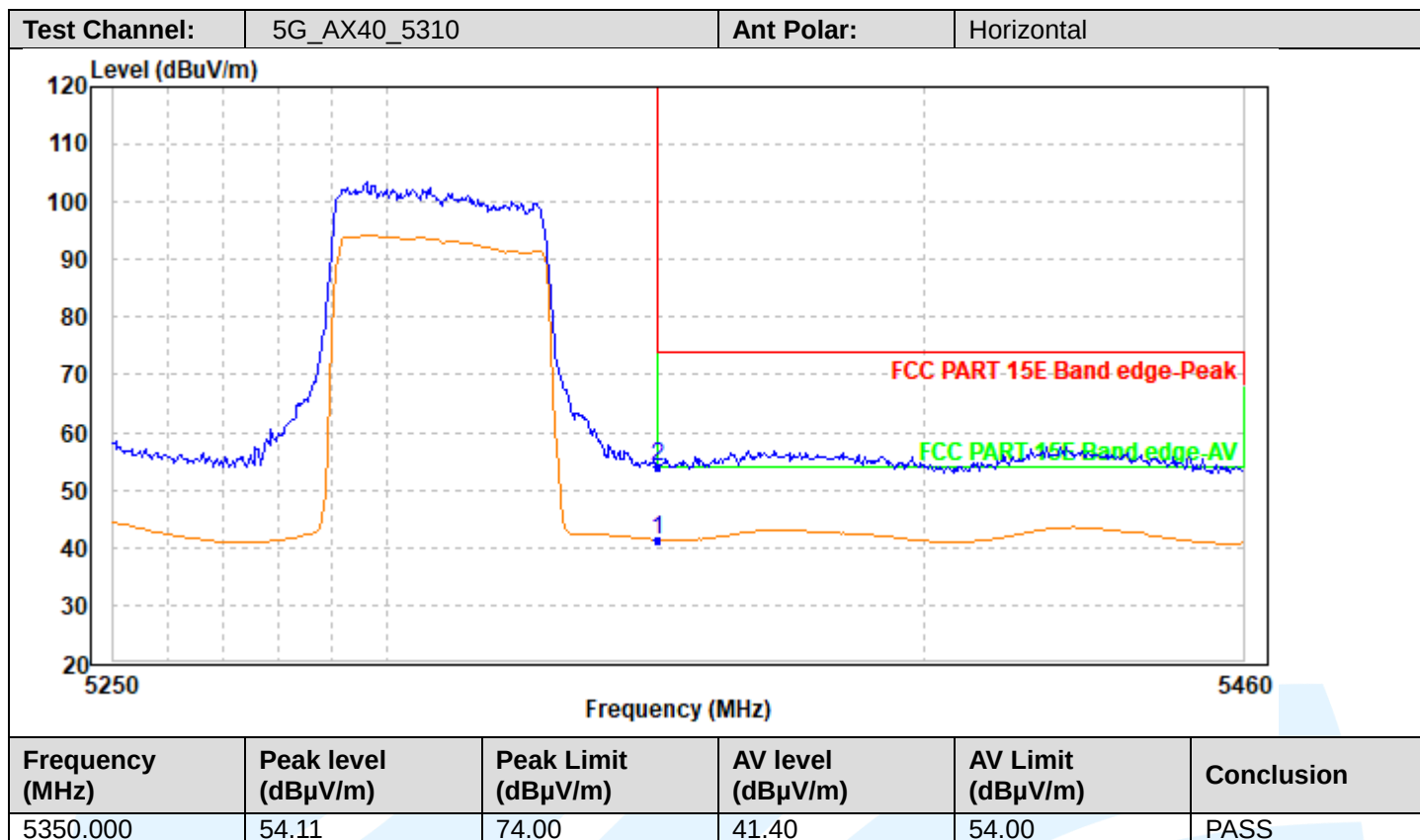
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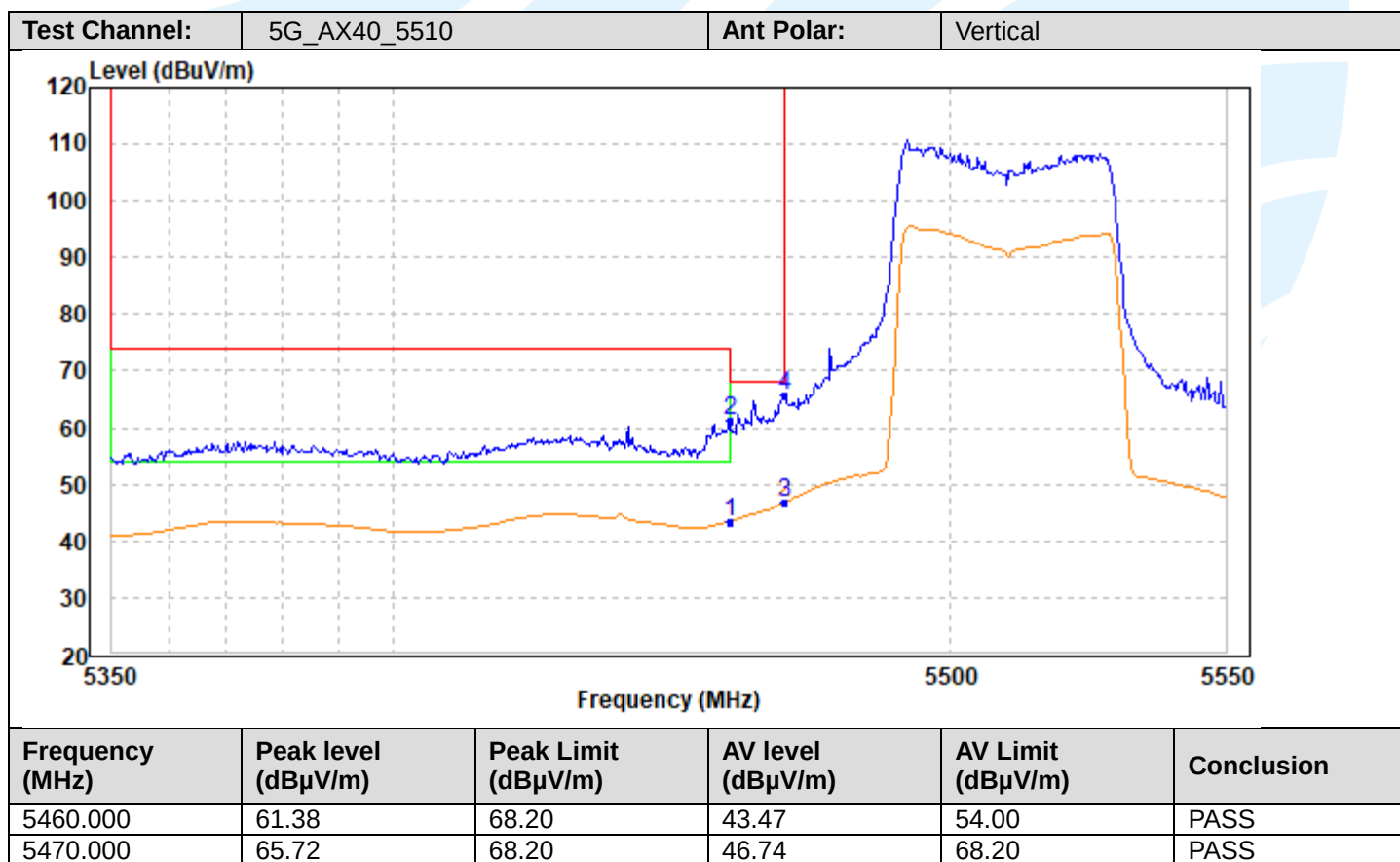
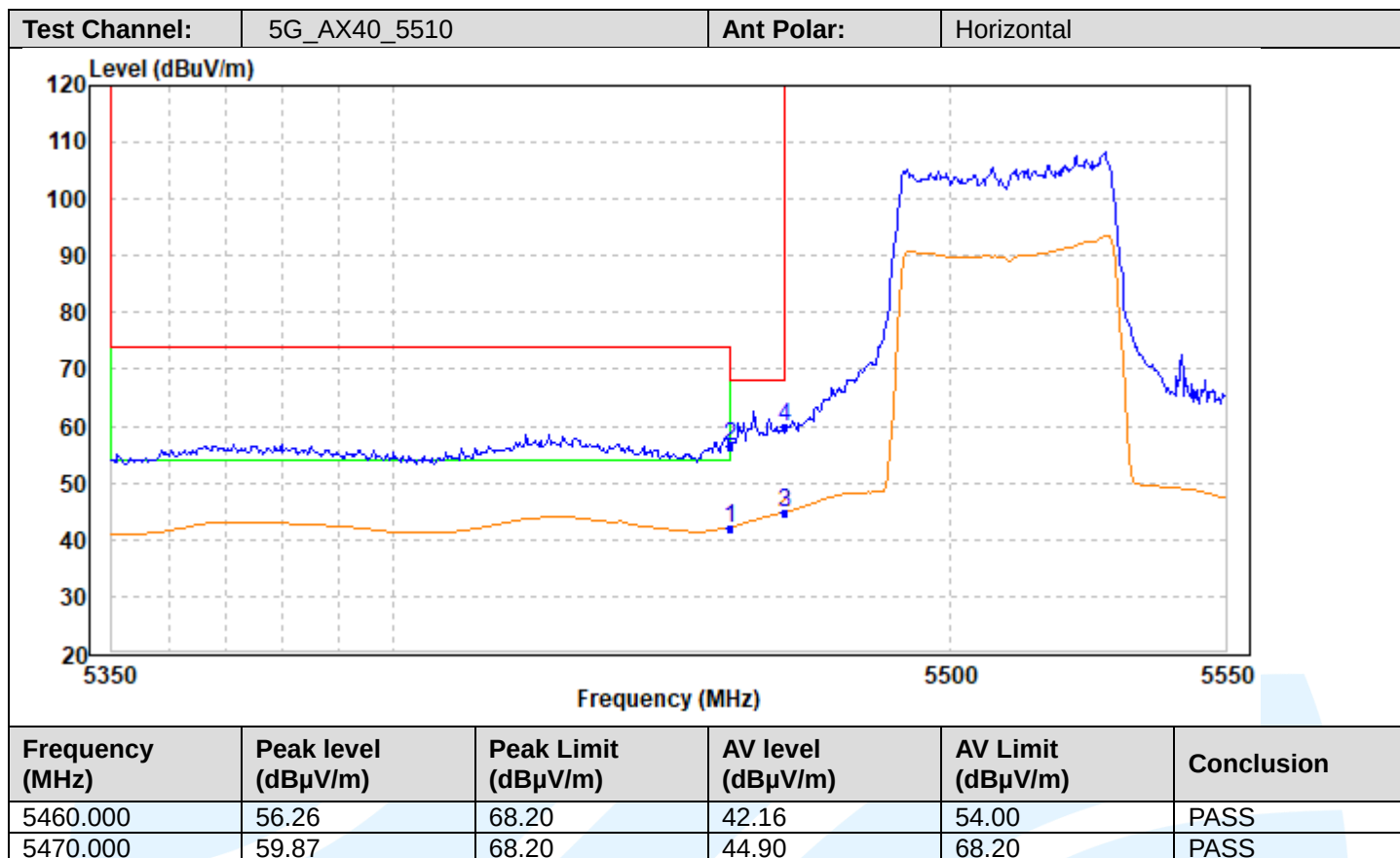
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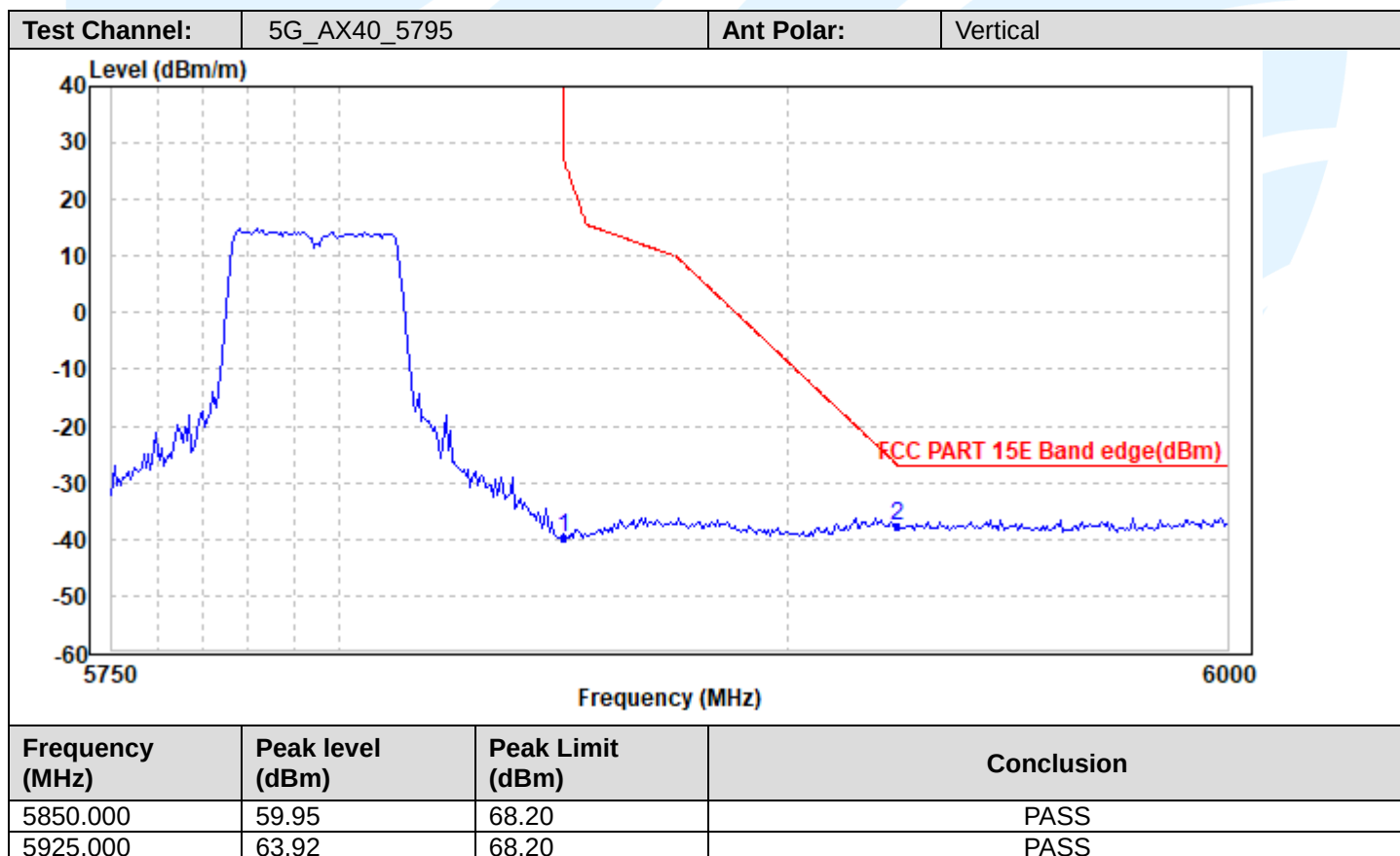
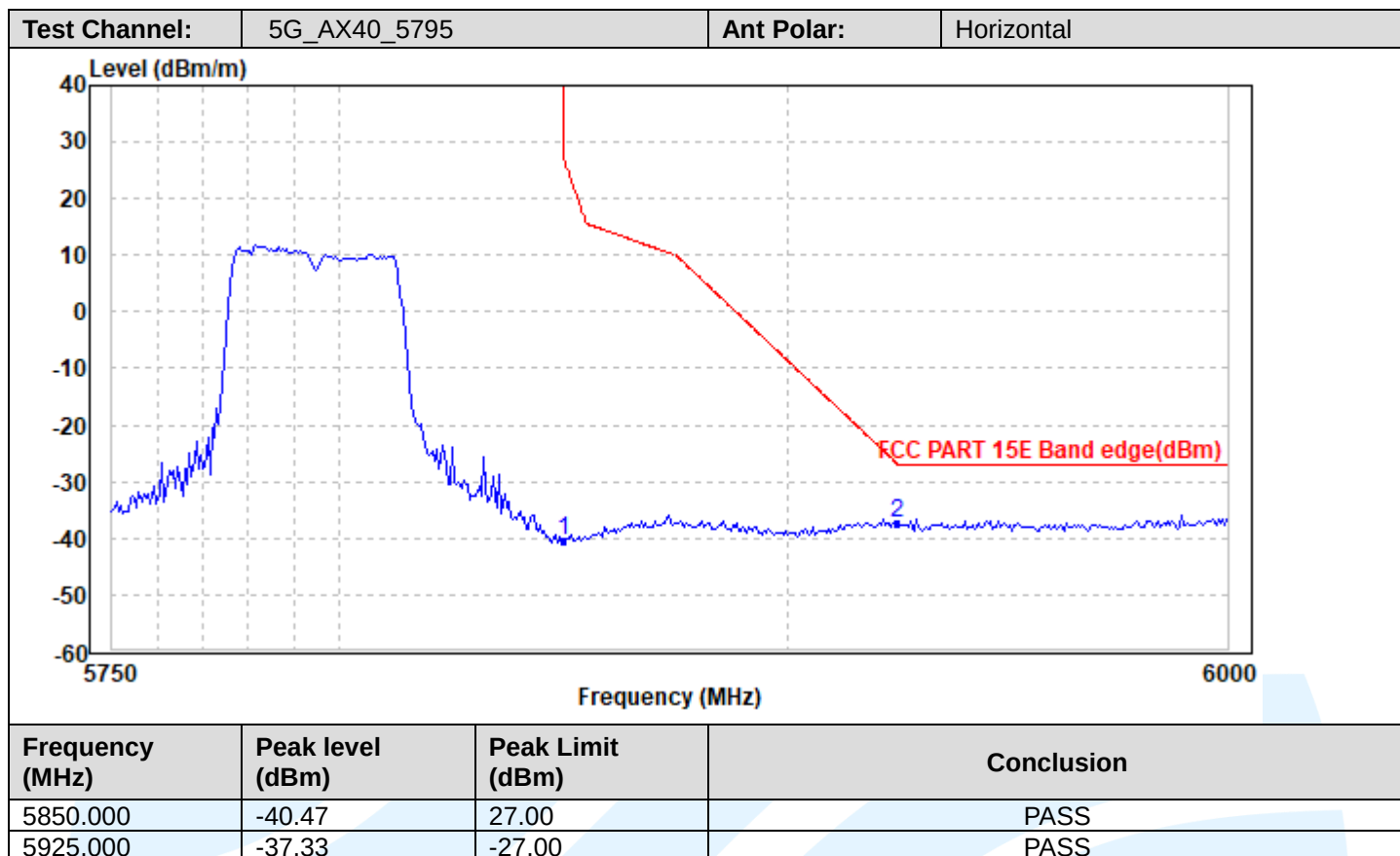
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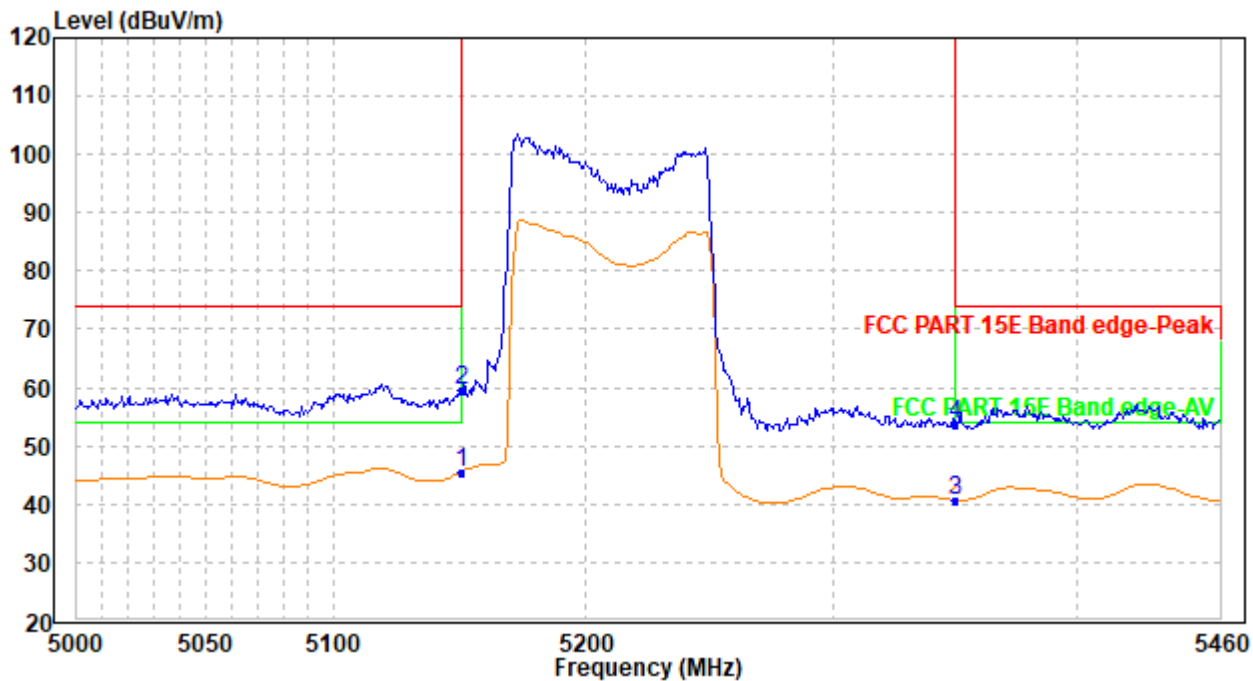






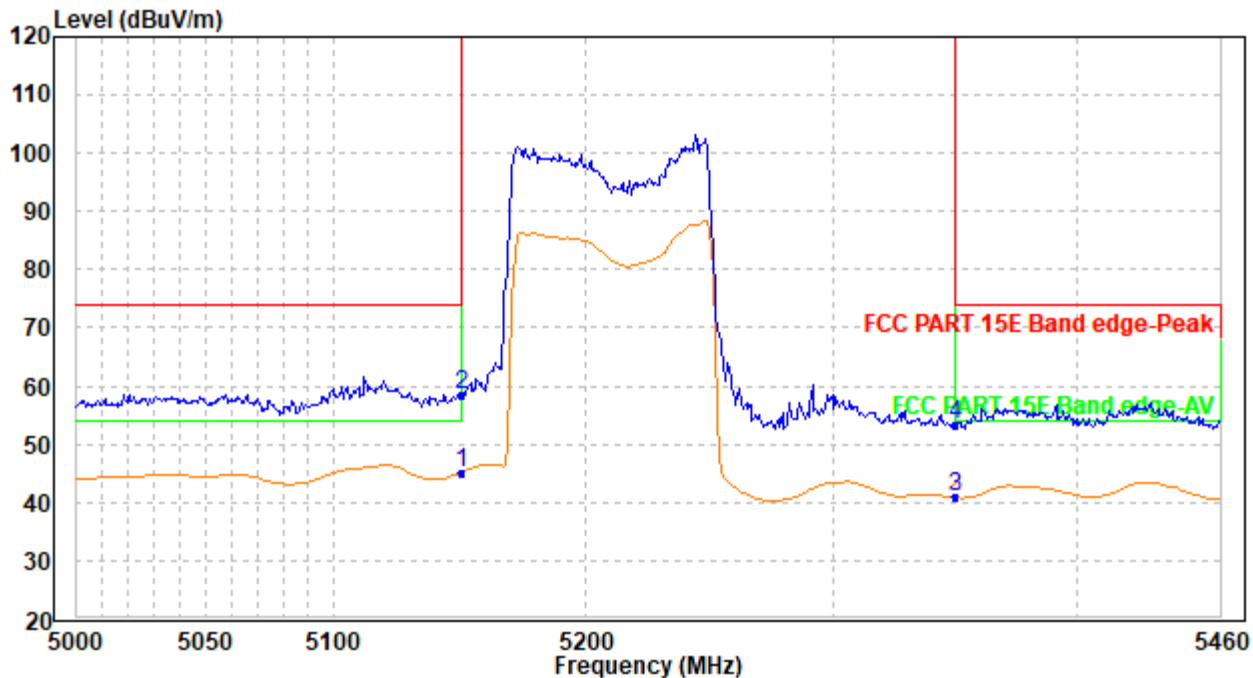


Test Channel:	5G_AX80_5210	Ant Polar:	Horizontal
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Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	AV level (dBμV/m)	AV Limit (dBμV/m)	Conclusion
5150.000	59.59	74.00	45.55	54.00	PASS
5350.000	53.70	74.00	40.74	54.00	PASS

Test Channel:	5G_AX80_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	58.36	74.00	45.23	54.00	PASS
5350.000	53.36	74.00	40.82	54.00	PASS

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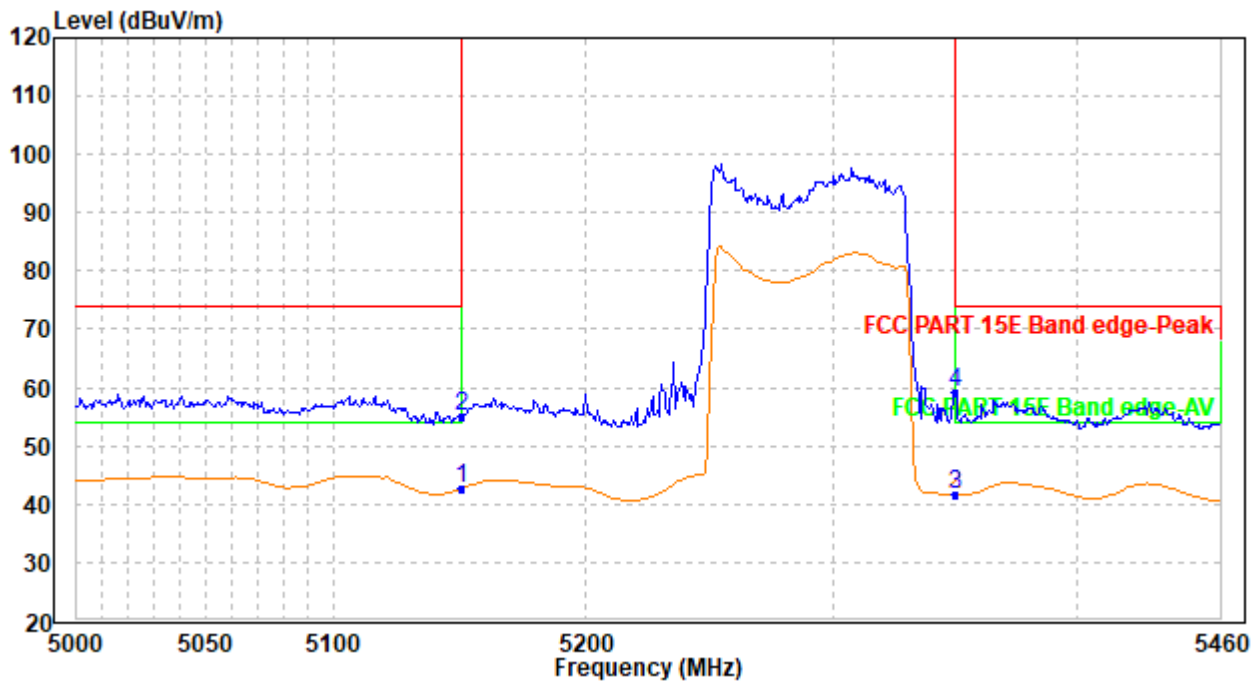
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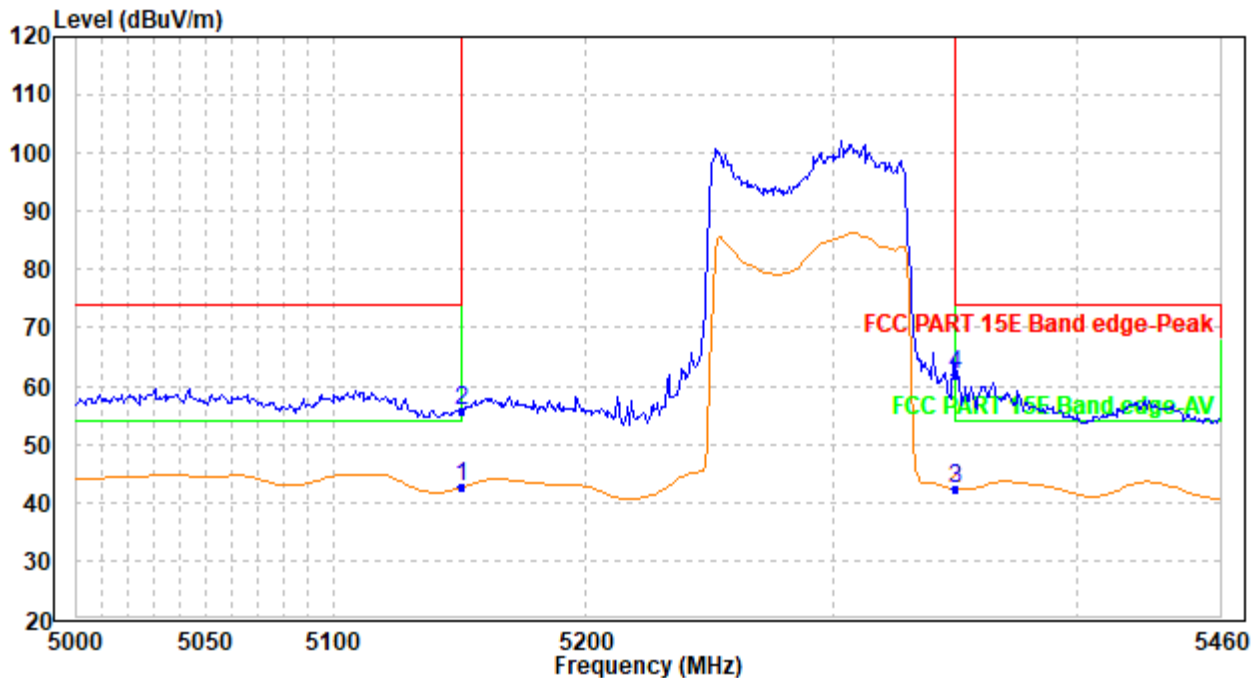
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Test Channel:	5G_AX80_5290	Ant Polar:	Horizontal
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Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	AV level (dBμV/m)	AV Limit (dBμV/m)	Conclusion
5150.000	55.19	74.00	42.64	54.00	PASS
5350.000	59.03	74.00	41.54	54.00	PASS

Test Channel:	5G_AX80_5290	Ant Polar:	Vertical
---------------	--------------	------------	----------



Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	AV level (dBμV/m)	AV Limit (dBμV/m)	Conclusion
5150.000	55.74	74.00	42.63	54.00	PASS
5350.000	61.98	74.00	42.35	54.00	PASS

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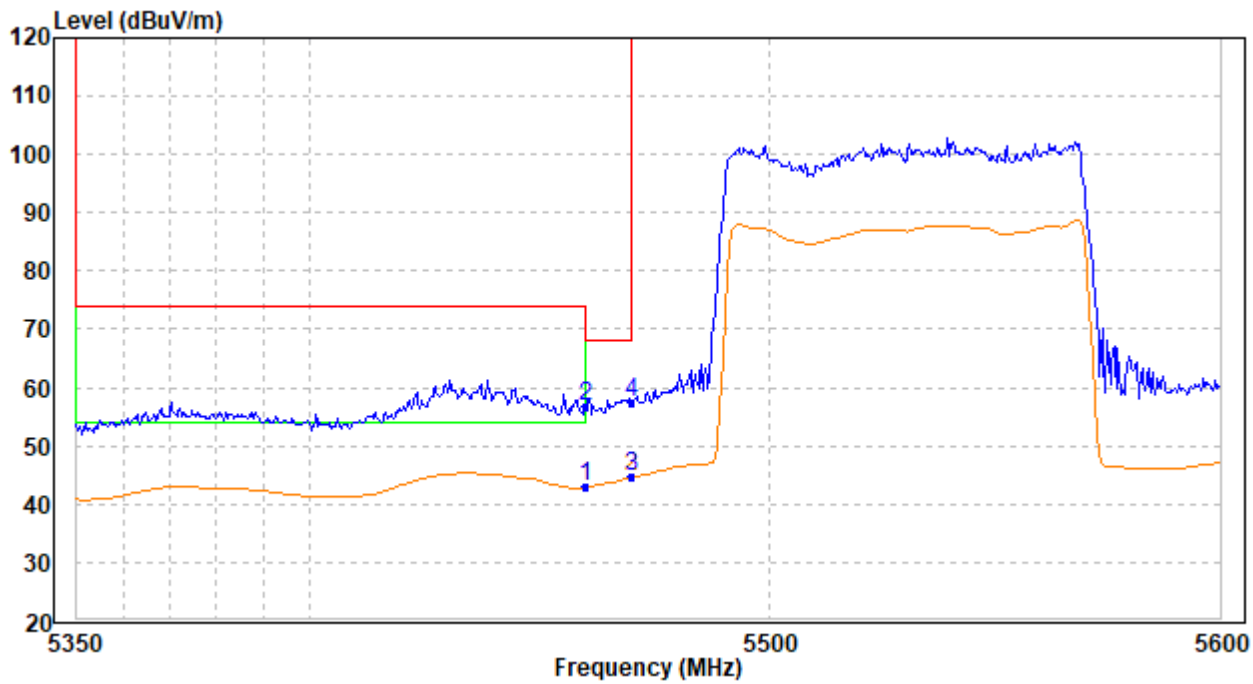
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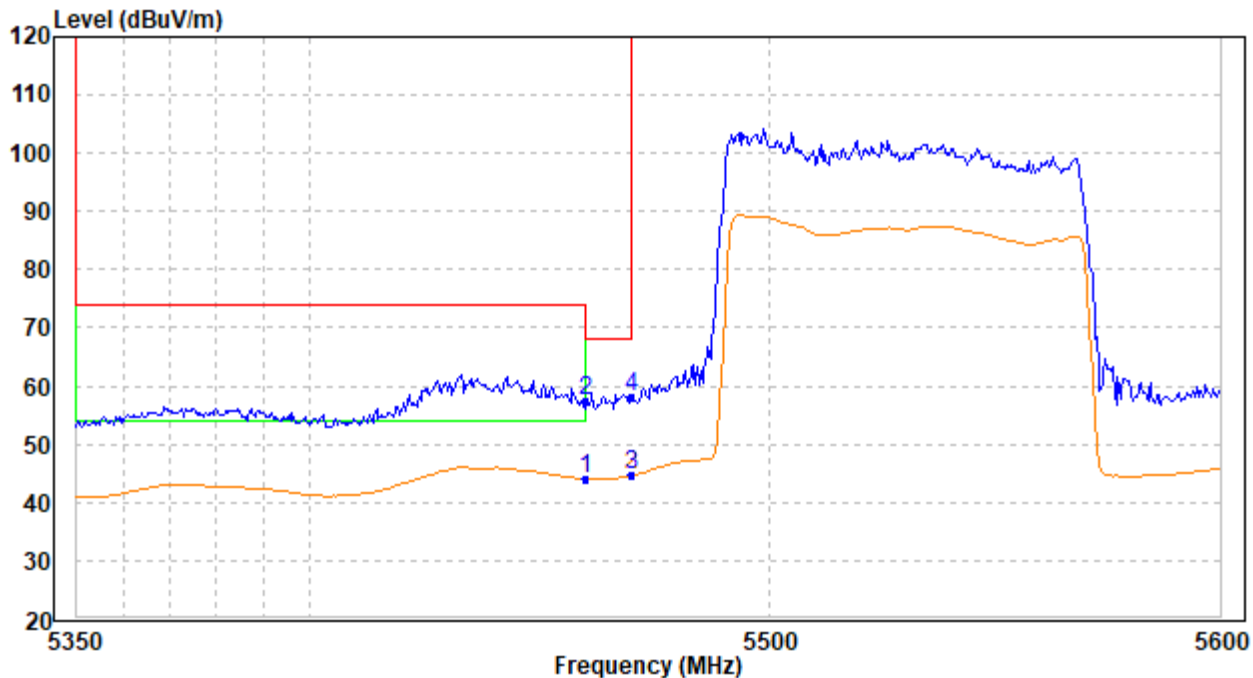
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Test Channel:	5G_AX80_5530	Ant Polar:	Horizontal
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Frequency (MHz)	Peak level (dBuV/m)	Peak Limit (dBuV/m)	AV level (dBuV/m)	AV Limit (dBuV/m)	Conclusion
5460.000	56.71	68.20	42.97	54.00	PASS
5470.000	57.45	68.20	44.65	68.20	PASS

Test Channel:	5G_AX80_5530	Ant Polar:	Vertical
---------------	--------------	------------	----------



Frequency (MHz)	Peak level (dBuV/m)	Peak Limit (dBuV/m)	AV level (dBuV/m)	AV Limit (dBuV/m)	Conclusion
5460.000	57.62	68.20	44.08	54.00	PASS
5470.000	58.01	68.20	44.65	68.20	PASS

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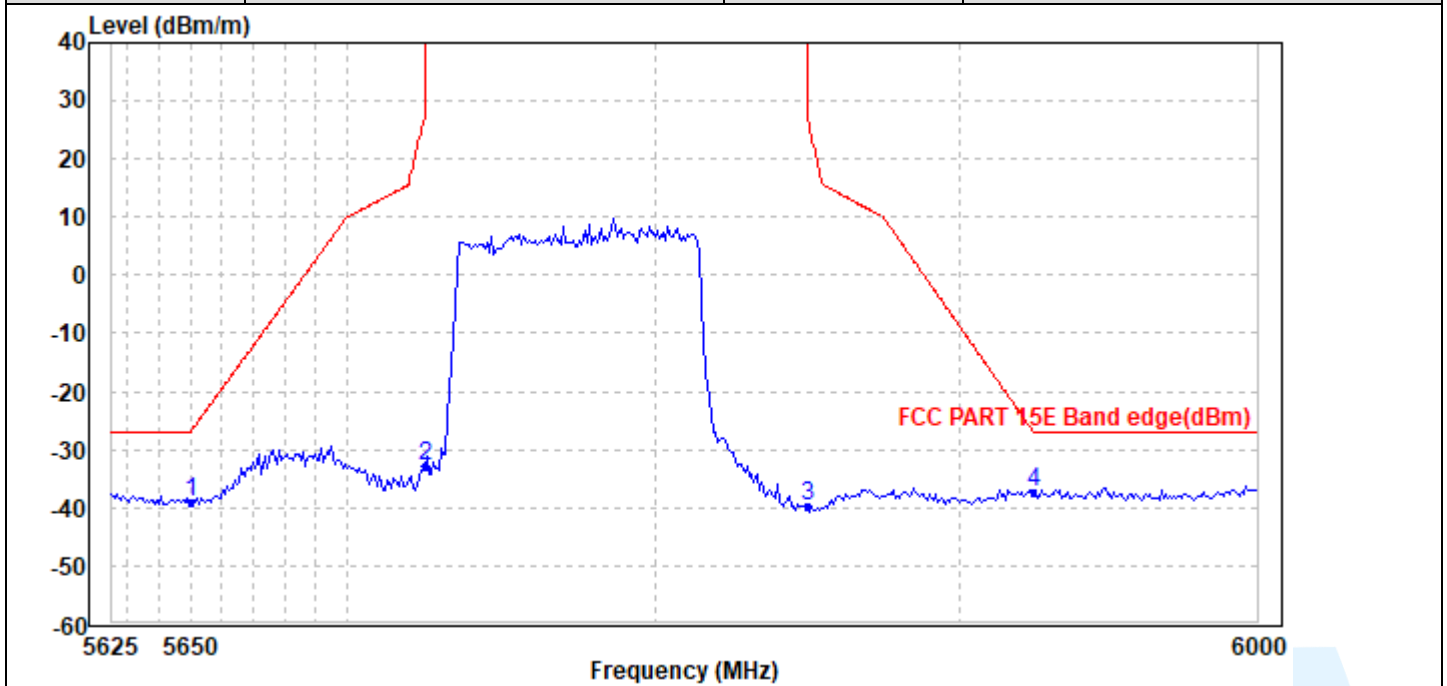
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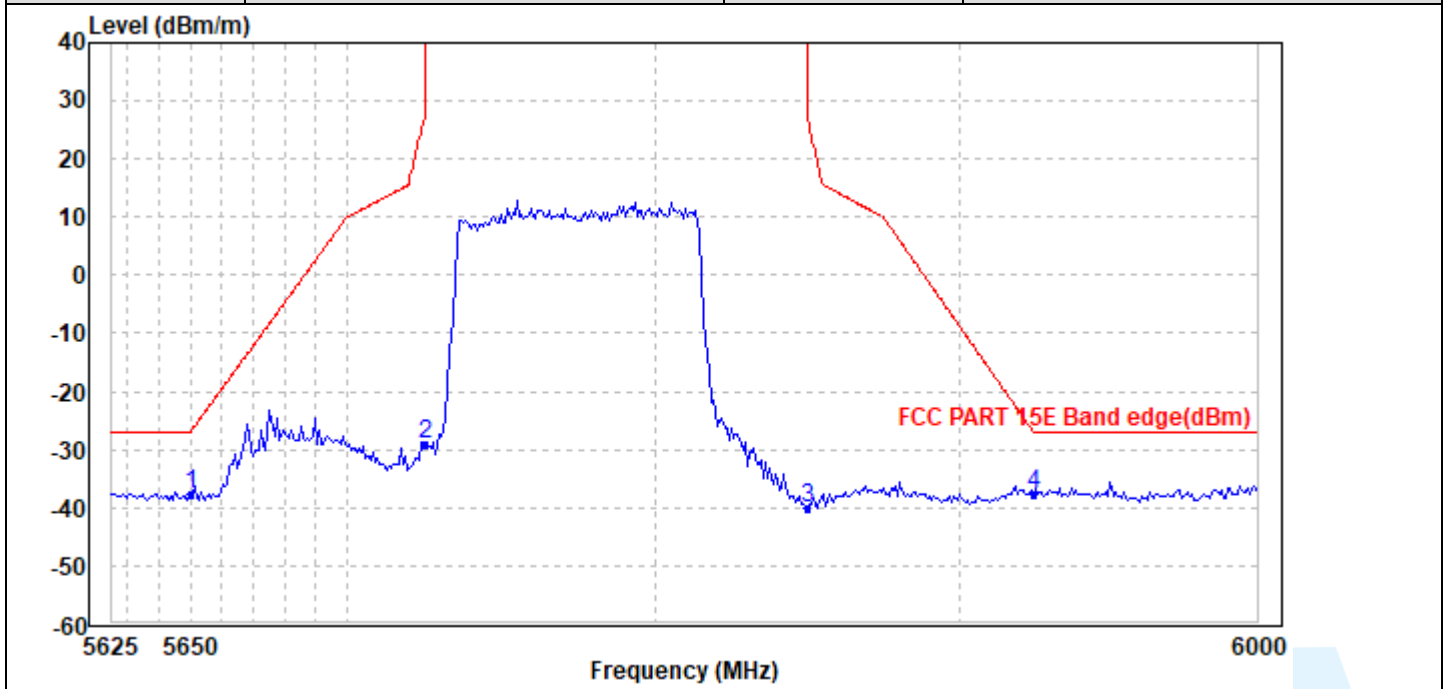
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Test Channel:	5G_AX80_5775	Ant Polar:	Horizontal
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Frequency (MHz)	Peak level (dBm)	Peak Limit (dBm)	Conclusion
5650.000	-39.02	-27.00	PASS
5725.000	-32.95	27.00	PASS
5850.000	-39.78	27.00	PASS
5925.000	-37.24	-27.00	PASS

Test Channel:	5G_AX80_5775	Ant Polar:	Vertical
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Frequency (MHz)	Peak level (dBm)	Peak Limit (dBm)	Conclusion
5650.000	-37.70	-27.00	PASS
5725.000	-28.90	27.00	PASS
5850.000	-40.11	27.00	PASS
5925.000	-37.69	-27.00	PASS

5.8 DYNAMIC FREQUENCY SELECTION

Test Requirement: FCC 47 CFR Part 15 Subpart E Section 15.407 (h)
RSS-247 Issue 4 Section 7.3.6

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 ≥ 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

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	$\text{Roundup} \left\{ \left(\frac{1}{\left(\frac{360}{19 \cdot 10^6} \right) \cdot \text{PRI}_{\mu\text{sec}}} \right) \right\}$	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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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.

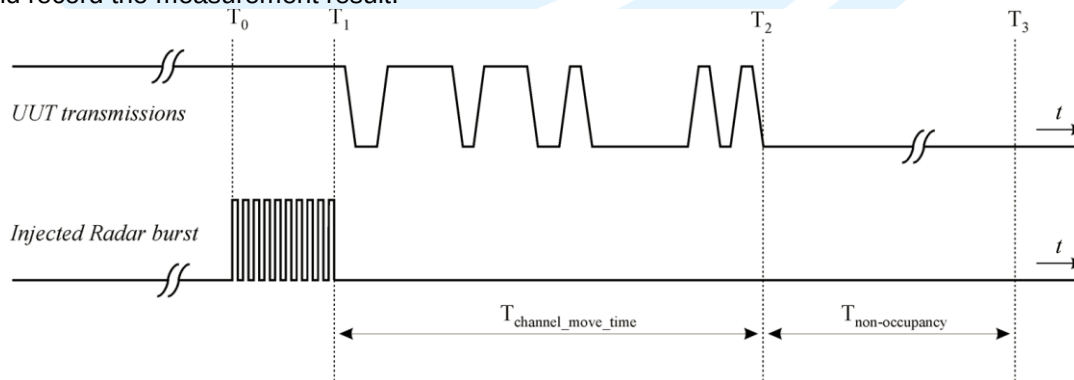
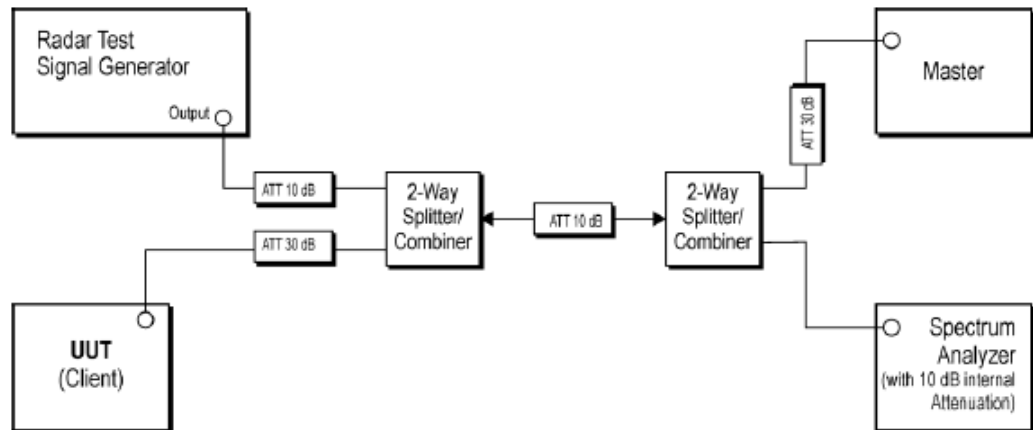


Figure 17: Channel Closing Transmission Time, Channel Move Time and Non-Occupancy Period

Conducted test setup



Setup for Client with injection at the Master

Equipment Used: Refer to section 3 for details.

Test Result: Please refer to Appendix A

The measurement data as follows:

5.9 AC POWER LINE CONDUCTED EMISSION

Test Requirement: FCC 47 CFR Part 15 Subpart E Section 15.407 (b)(6)
FCC 47 CFR Part 15 Subpart C Section 15.207
RSS-247 Issue 4 Section 7.3
RSS-Gen Issue 6, Section 6.2

Test Method: ANSI C63.10-2013, 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 4.5.2 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 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Equipment Used: Refer to section 3 for details.

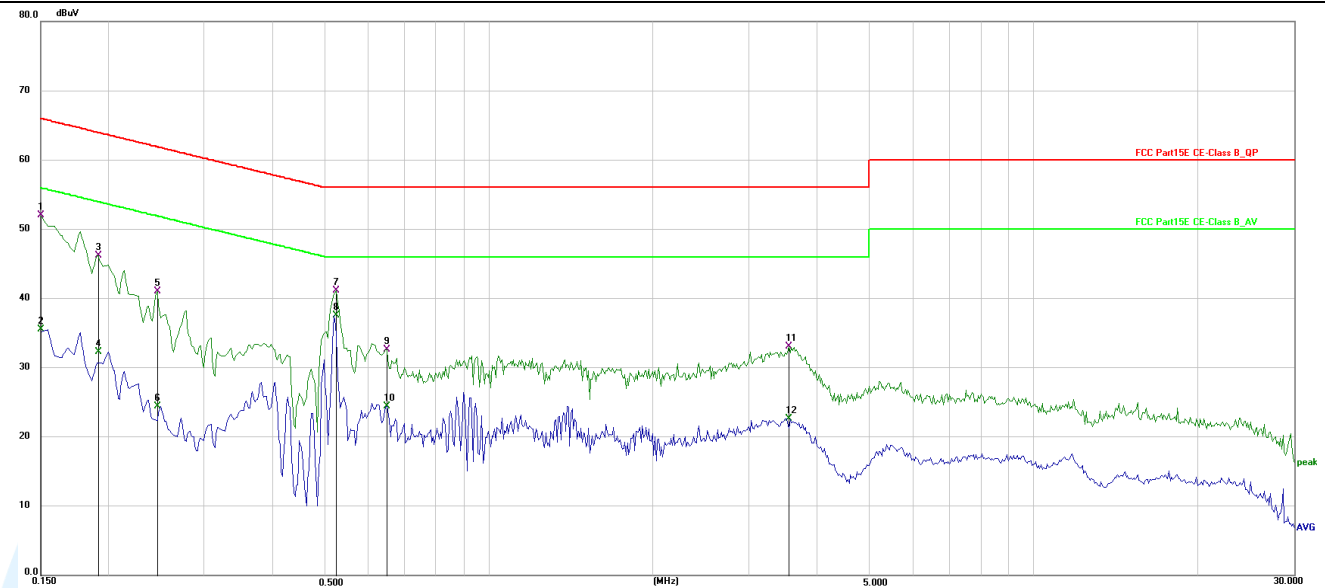
Test Result: Pass

The worst measurement data as follows:

Quasi Peak and Average:

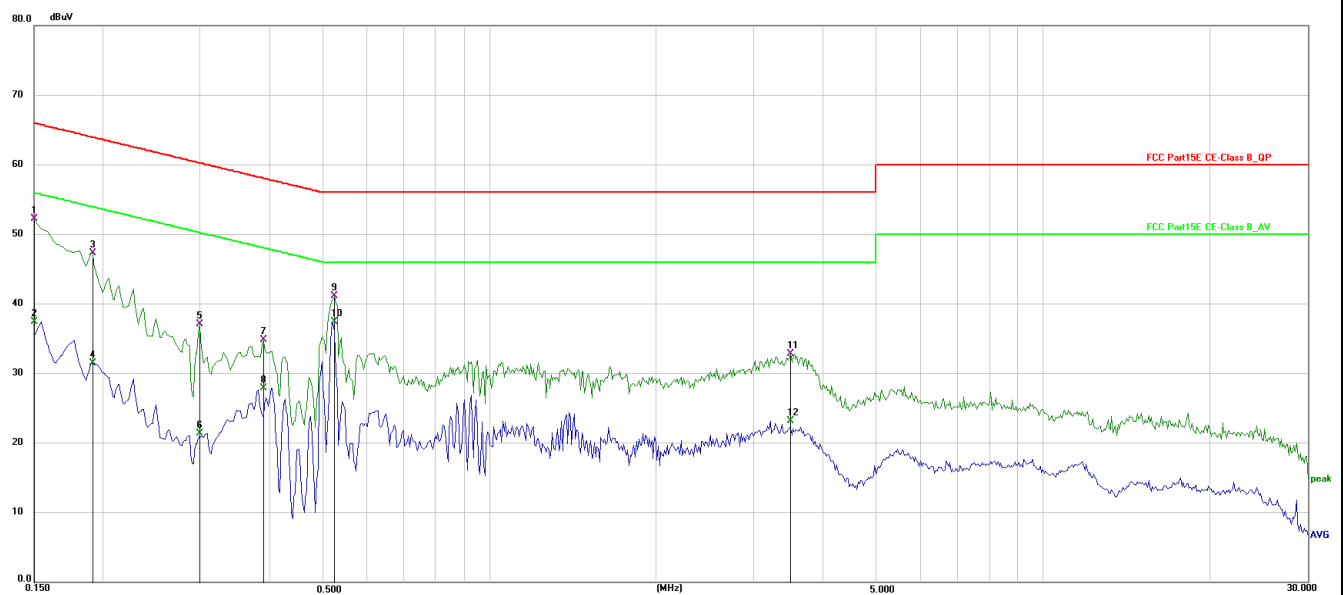
Mode: WIFI Link

Live Line



No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.1500	41.71	10.31	52.02	66.00	-13.98	QP
2	0.1500	25.15	10.31	35.46	56.00	-20.54	AVG
3	0.1905	35.91	10.28	46.19	64.01	-17.82	QP
4	0.1905	22.02	10.28	32.30	54.01	-21.71	AVG
5	0.2444	30.75	10.26	41.01	61.95	-20.94	QP
6	0.2444	14.20	10.26	24.46	51.95	-27.49	AVG
7	0.5234	30.91	10.20	41.11	56.00	-14.89	QP
8	0.5234	27.35	10.20	37.55	46.00	-8.45	AVG
9	0.6493	22.43	10.20	32.63	56.00	-23.37	QP
10	0.6493	14.24	10.20	24.44	46.00	-21.56	AVG
11	3.5565	22.90	10.14	33.04	56.00	-22.96	QP
12	3.5565	12.49	10.14	22.63	46.00	-23.37	AVG

Neutral Line



No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.1500	41.89	10.30	52.19	66.00	-13.81	QP
2	0.1500	27.15	10.30	37.45	56.00	-18.55	AVG
3	0.1905	37.02	10.28	47.30	64.01	-16.71	QP
4	0.1905	21.18	10.28	31.46	54.01	-22.55	AVG
5	0.2983	26.83	10.24	37.07	60.29	-23.22	QP
6	0.2983	11.12	10.24	21.36	50.29	-28.93	AVG
7	0.3885	24.66	10.23	34.89	58.10	-23.21	QP
8	0.3885	17.69	10.23	27.92	48.10	-20.18	AVG
9	0.5234	30.90	10.19	41.09	56.00	-14.91	QP
10	0.5234	27.23	10.19	37.42	46.00	-8.58	AVG
11	3.5070	22.67	10.13	32.80	56.00	-23.20	QP
12	3.5070	13.01	10.13	23.14	46.00	-22.86	AVG

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.

APPENDIX A RF TEST DATA

A1. CONDUCTED OUTPUT POWER AND EIRP

Test Mode	Ant.	Freq. [MHz]	Set Power	Result [dBm]	FCC Limit [dBm]	ISED Limit [dBm]	Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	Verdict
11A	Ant1	5180	12	15.90	≤24	--	3.28	19.18	≤22.39	PASS
11A	Ant1	5200	12	15.97	≤24	--	3.28	19.25	≤22.39	PASS
11A	Ant1	5240	12	15.70	≤24	--	3.28	18.98	≤22.39	PASS
11A	Ant1	5260	12	15.91	≤24	≤23.40	2.73	18.64	≤27	PASS
11A	Ant1	5280	12	15.63	≤24	≤23.40	2.73	18.36	≤27	PASS
11A	Ant1	5320	12	14.89	≤24	≤23.40	2.73	17.62	≤27	PASS
11A	Ant1	5500	15	15.14	≤24	≤23.40	4.08	19.22	≤27	PASS
11A	Ant1	5600	15	14.80	≤24	≤23.40	4.08	18.88	≤27	PASS
11A	Ant1	5700	16	14.36	≤24	≤23.40	4.08	18.44	≤27	PASS
11A	Ant1	5720	16	13.76	≤24	≤23.40	4.26	18.02	≤27	PASS
11A	Ant1	5745	16	13.21	≤30	≤30.00	4.26	17.47	---	PASS
11A	Ant1	5785	16	12.58	≤30	≤30.00	4.26	16.84	---	PASS
11A	Ant1	5825	16	13.05	≤30	≤30.00	4.26	17.31	---	PASS
11N20SISO	Ant1	5180	11	14.61	≤24	--	3.28	17.89	≤22.63	PASS
11N20SISO	Ant1	5200	11	14.42	≤24	--	3.28	17.70	≤22.63	PASS
11N20SISO	Ant1	5240	11	14.74	≤24	--	3.28	18.02	≤22.63	PASS
11N20SISO	Ant1	5260	11	14.67	≤24	≤23.64	2.73	17.40	≤27	PASS
11N20SISO	Ant1	5280	11	14.37	≤24	≤23.64	2.73	17.10	≤27	PASS
11N20SISO	Ant1	5320	11	13.77	≤24	≤23.64	2.73	16.50	≤27	PASS
11N20SISO	Ant1	5500	14	14.65	≤24	≤23.64	4.08	18.73	≤27	PASS
11N20SISO	Ant1	5600	14	13.98	≤24	≤23.64	4.08	18.06	≤27	PASS
11N20SISO	Ant1	5700	16	14.26	≤24	≤23.64	4.08	18.34	≤27	PASS
11N20SISO	Ant1	5720	16	13.55	≤24	≤23.64	4.26	17.81	≤27	PASS
11N20SISO	Ant1	5745	16	13.18	≤30	≤30	4.26	17.44	---	PASS
11N20SISO	Ant1	5785	16	13.14	≤30	≤30	4.26	17.40	---	PASS
11N20SISO	Ant1	5825	16	13.05	≤30	≤30	4.26	17.31	---	PASS
11N40SISO	Ant1	5190	9	12.99	≤24	--	3.28	16.27	≤23	PASS
11N40SISO	Ant1	5230	9	12.77	≤24	--	3.28	16.05	≤23	PASS
11N40SISO	Ant1	5270	9	13.01	≤24	≤24	2.73	15.74	≤27	PASS
11N40SISO	Ant1	5310	9	12.35	≤24	≤24	2.73	15.08	≤27	PASS
11N40SISO	Ant1	5510	13	12.98	≤24	≤24	4.08	17.06	≤27	PASS
11N40SISO	Ant1	5590	13	13.94	≤24	≤24	4.08	18.02	≤27	PASS
11N40SISO	Ant1	5670	13	12.27	≤24	≤24	4.08	16.35	≤27	PASS
11N40SISO	Ant1	5710	14	12.61	≤24	≤24	4.26	16.87	≤27	PASS
11N40SISO	Ant1	5755	16	13.21	≤30	≤30	4.26	17.47	---	PASS
11N40SISO	Ant1	5795	13	13.50	≤30	≤30	4.26	17.76	---	PASS
11AC20SISO	Ant1	5180	8	11.94	≤24	--	3.28	15.22	≤22.63	PASS
11AC20SISO	Ant1	5200	8	11.80	≤24	--	3.28	15.08	≤22.63	PASS
11AC20SISO	Ant1	5240	8	12.25	≤24	--	3.28	15.53	≤22.63	PASS
11AC20SISO	Ant1	5260	8	12.01	≤24	≤23.64	2.73	14.74	≤27	PASS
11AC20SISO	Ant1	5280	8	11.63	≤24	≤23.64	2.73	14.36	≤27	PASS
11AC20SISO	Ant1	5320	9	11.92	≤24	≤23.64	2.73	14.65	≤27	PASS
11AC20SISO	Ant1	5500	12	12.31	≤24	≤23.64	4.08	16.39	≤27	PASS
11AC20SISO	Ant1	5600	12	12.10	≤24	≤23.64	4.08	16.18	≤27	PASS
11AC20SISO	Ant1	5700	14	12.34	≤24	≤23.64	4.08	16.42	≤27	PASS
11AC20SISO	Ant1	5720	14	11.66	≤24	≤23.64	4.26	15.92	≤27	PASS
11AC20SISO	Ant1	5745	15	12.13	≤30	≤30	4.26	16.39	---	PASS
11AC20SISO	Ant1	5785	15	12.13	≤30	≤30	4.26	16.39	---	PASS
11AC20SISO	Ant1	5825	15	12.07	≤30	≤30	4.26	16.33	---	PASS
11AC40SISO	Ant1	5190	7	11.09	≤24	--	3.28	14.37	≤23	PASS
11AC40SISO	Ant1	5230	7	11.23	≤24	--	3.28	14.51	≤23	PASS
11AC40SISO	Ant1	5270	7	11.05	≤24	≤24	2.73	13.78	≤27	PASS
11AC40SISO	Ant1	5310	7	10.34	≤24	≤24	2.73	13.07	≤27	PASS
11AC40SISO	Ant1	5510	11	11.46	≤24	≤24	4.08	15.54	≤27	PASS
11AC40SISO	Ant1	5590	11	11.51	≤24	≤24	4.08	15.59	≤27	PASS
11AC40SISO	Ant1	5670	12	11.36	≤24	≤24	4.08	15.44	≤27	PASS
11AC40SISO	Ant1	5710	13	11.69	≤24	≤24	4.26	15.95	≤27	PASS

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11AC40SISO	Ant1	5755	14	11.38	≤30	≤30	4.26	15.64	---	PASS
11AC40SISO	Ant1	5795	14	11.12	≤30	≤30	4.26	15.38	---	PASS
11AC80SISO	Ant1	5210	6	9.51	≤24	--	3.28	12.79	≤23	PASS
11AC80SISO	Ant1	5290	7	10.06	≤24	≤24	2.73	12.79	≤27	PASS
11AC80SISO	Ant1	5530	9	10.00	≤24	≤24	4.08	14.08	≤27	PASS
11AC80SISO	Ant1	5610	9	10.48	≤24	≤24	4.08	14.56	≤27	PASS
11AC80SISO	Ant1	5690	9	10.17	≤24	≤24	4.26	14.43	≤27	PASS
11AC80SISO	Ant1	5775	12	10.61	≤30	≤30	4.26	14.87	---	PASS
11AX20SISO	Ant1	5180	8	12.27	≤24	--	3.28	15.55	≤22.63	PASS
11AX20SISO	Ant1	5200	8	12.14	≤24	--	3.28	15.42	≤22.63	PASS
11AX20SISO	Ant1	5240	8	12.61	≤24	--	3.28	15.89	≤22.63	PASS
11AX20SISO	Ant1	5260	8	11.91	≤24	≤23.64	2.73	14.64	≤27	PASS
11AX20SISO	Ant1	5280	8	11.98	≤24	≤23.64	2.73	14.71	≤27	PASS
11AX20SISO	Ant1	5320	9	11.82	≤24	≤23.64	2.73	14.55	≤27	PASS
11AX20SISO	Ant1	5500	12	12.64	≤24	≤23.64	4.08	16.72	≤27	PASS
11AX20SISO	Ant1	5600	12	11.98	≤24	≤23.64	4.08	16.06	≤27	PASS
11AX20SISO	Ant1	5700	14	12.67	≤24	≤23.64	4.08	16.75	≤27	PASS
11AX20SISO	Ant1	5720	14	11.95	≤24	≤23.64	4.26	16.21	≤27	PASS
11AX20SISO	Ant1	5745	15	12.45	≤30	≤30	4.26	16.71	---	PASS
11AX20SISO	Ant1	5785	15	11.99	≤30	≤30	4.26	16.25	---	PASS
11AX20SISO	Ant1	5825	15	12.37	≤30	≤30	4.26	16.63	---	PASS
11AX40SISO	Ant1	5190	8	11.67	≤24	--	3.28	14.95	≤23	PASS
11AX40SISO	Ant1	5230	8	11.34	≤24	--	3.28	14.62	≤23	PASS
11AX40SISO	Ant1	5270	8	11.62	≤24	≤24	2.73	14.35	≤27	PASS
11AX40SISO	Ant1	5310	8	10.90	≤24	≤24	2.73	13.63	≤27	PASS
11AX40SISO	Ant1	5510	11	11.47	≤24	≤24	4.08	15.55	≤27	PASS
11AX40SISO	Ant1	5590	11	11.98	≤24	≤24	4.08	16.06	≤27	PASS
11AX40SISO	Ant1	5670	12	10.86	≤24	≤24	4.08	14.94	≤27	PASS
11AX40SISO	Ant1	5710	12	10.78	≤24	≤24	4.26	15.04	≤27	PASS
11AX40SISO	Ant1	5755	14	11.36	≤30	≤30	4.26	15.62	---	PASS
11AX40SISO	Ant1	5795	14	11.16	≤30	≤30	4.26	15.42	---	PASS
11AX80SISO	Ant1	5210	6	9.67	≤24	--	3.28	12.95	≤23	PASS
11AX80SISO	Ant1	5290	7	10.23	≤24	≤24	2.73	12.96	≤27	PASS
11AX80SISO	Ant1	5530	9	10.18	≤24	≤24	4.08	14.26	≤27	PASS
11AX80SISO	Ant1	5610	9	10.66	≤24	≤24	4.08	14.74	≤27	PASS
11AX80SISO	Ant1	5690	9	10.33	≤24	≤24	4.26	14.59	≤27	PASS
11AX80SISO	Ant1	5775	12	10.35	≤30	≤30	4.26	14.61	---	PASS

Test Mode	Antenna	Frequency[MHz]	Ru Size	Ru Index	Set Power	Result [dBm]	FCC Limit [dBm]	ISED Limit [dBm]	Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	Verdict
11AX20SISO	Ant1	5180	26Tone	RU0	0	2.16	≤24	--	3.28	5.44	---	PASS
11AX20SISO	Ant1	5180	52Tone	RU37	3	5.73	≤24	--	3.28	9.01	---	PASS
11AX20SISO	Ant1	5180	106Tone	RU53	6	9.62	≤24	--	3.28	12.90	---	PASS
11AX20SISO	Ant1	5200	26Tone	RU4	0	-0.01	≤24	--	3.28	3.27	---	PASS
11AX20SISO	Ant1	5200	52Tone	RU39	3	3.43	≤24	--	3.28	6.71	---	PASS
11AX20SISO	Ant1	5200	106Tone	RU54	6	6.41	≤24	--	3.28	9.69	---	PASS
11AX20SISO	Ant1	5240	26Tone	RU8	0	0.25	≤24	--	3.28	3.53	---	PASS
11AX20SISO	Ant1	5240	52Tone	RU40	3	3.73	≤24	--	3.28	7.01	---	PASS
11AX20SISO	Ant1	5240	106Tone	RU54	6	6.78	≤24	--	3.28	10.06	---	PASS
11AX20SISO	Ant1	5260	26Tone	RU0	0	3.17	≤24	≤23.64	2.73	5.90	---	PASS
11AX20SISO	Ant1	5260	52Tone	RU37	3	6.63	≤24	≤23.64	2.73	9.36	---	PASS

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11AX20SIS O	Ant1	5260	106Tone	RU53	6	9.62	≤24	≤23.6 4	2.73	12.35	---	PASS
11AX20SIS O	Ant1	5280	26Tone	RU4	0	-0.16	≤24	≤23.6 4	2.73	2.57	---	PASS
11AX20SIS O	Ant1	5280	52Tone	RU39	3	3.15	≤24	≤23.6 4	2.73	5.88	---	PASS
11AX20SIS O	Ant1	5280	106Tone	RU54	6	6.10	≤24	≤23.6 4	2.73	8.83	---	PASS
11AX20SIS O	Ant1	5320	26Tone	RU8	0	-0.25	≤24	≤23.6 4	2.73	2.48	---	PASS
11AX20SIS O	Ant1	5320	52Tone	RU40	3	2.27	≤24	≤23.6 4	2.73	5.00	---	PASS
11AX20SIS O	Ant1	5320	106Tone	RU54	6	4.27	≤24	≤23.6 4	2.73	7.00	---	PASS
11AX20SIS O	Ant1	5500	26Tone	RU0	3	2.33	≤24	≤23.6 4	4.08	6.41	---	PASS
11AX20SIS O	Ant1	5500	52Tone	RU37	6	4.89	≤24	≤23.6 4	4.08	8.97	---	PASS
11AX20SIS O	Ant1	5500	106Tone	RU53	9	8.90	≤24	≤23.6 4	4.08	12.98	---	PASS
11AX20SIS O	Ant1	5600	26Tone	RU4	3	-0.91	≤24	≤23.6 4	4.08	3.17	---	PASS
11AX20SIS O	Ant1	5600	52Tone	RU39	6	2.42	≤24	≤23.6 4	4.08	6.50	---	PASS
11AX20SIS O	Ant1	5600	106Tone	RU54	9	5.49	≤24	≤23.6 4	4.08	9.57	---	PASS
11AX20SIS O	Ant1	5700	26Tone	RU8	5	0.64	≤24	≤23.6 4	4.08	4.72	---	PASS
11AX20SIS O	Ant1	5700	52Tone	RU40	8	2.27	≤24	≤23.6 4	4.08	6.35	---	PASS
11AX20SIS O	Ant1	5700	106Tone	RU54	11	4.98	≤24	≤23.6 4	4.08	9.06	---	PASS
11AX20SIS O	Ant1	5720	26Tone	RU0	5	1.72	≤24	≤23.6 4	4.26	5.98	---	PASS
11AX20SIS O	Ant1	5720	26Tone	RU8	5	1.83	≤24	≤23.6 4	4.26	6.09	---	PASS
11AX20SIS O	Ant1	5720	52Tone	RU37	8	4.74	≤24	≤23.6 4	4.26	9.00	---	PASS
11AX20SIS O	Ant1	5720	52Tone	RU40	8	4.94	≤24	≤23.6 4	4.26	9.20	---	PASS
11AX20SIS O	Ant1	5720	106Tone	RU53	11	8.00	≤24	≤23.6 4	4.26	12.26	---	PASS
11AX20SIS O	Ant1	5720	106Tone	RU54	11	8.06	≤24	≤23.6 4	4.26	12.32	---	PASS
11AX20SIS O	Ant1	5745	26Tone	RU0	6	2.34	≤30	≤30	4.26	6.60	---	PASS
11AX20SIS O	Ant1	5745	52Tone	RU37	9	5.58	≤30	≤30	4.26	9.84	---	PASS
11AX20SIS O	Ant1	5745	106Tone	RU53	12	8.65	≤30	≤30	4.26	12.91	---	PASS
11AX20SIS O	Ant1	5785	26Tone	RU4	6	-0.76	≤30	≤30	4.26	3.50	---	PASS
11AX20SIS O	Ant1	5785	52Tone	RU39	9	2.28	≤30	≤30	4.26	6.54	---	PASS
11AX20SIS O	Ant1	5785	106Tone	RU54	12	5.73	≤30	≤30	4.26	9.99	---	PASS
11AX20SIS O	Ant1	5825	26Tone	RU8	6	-0.40	≤30	≤30	4.26	3.86	---	PASS
11AX20SIS O	Ant1	5825	52Tone	RU40	9	2.51	≤30	≤30	4.26	6.77	---	PASS
11AX20SIS O	Ant1	5825	106Tone	RU54	12	5.59	≤30	≤30	4.26	9.85	---	PASS

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A2. 99% BANDWIDTH

Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]
11A	Ant1	5180	17.424	5171.2793	5188.7033
11A	Ant1	5200	17.347	5191.3355	5208.6825
11A	Ant1	5240	17.379	5231.3255	5248.7045
11A	Ant1	5260	17.399	5251.3087	5268.7077
11A	Ant1	5280	17.366	5271.3221	5288.6881
11A	Ant1	5320	17.362	5311.3474	5328.7094
11A	Ant1	5500	17.388	5491.3438	5508.7318
11A	Ant1	5600	17.415	5591.3071	5608.7221
11A	Ant1	5700	17.419	5691.3141	5708.7331
11A	Ant1	5720	17.386	5711.3124	5728.6984
11A	Ant1	5720 UNII-2C	13.688	5711.3124	5725
11A	Ant1	5720 UNII-3	3.698	5725	5728.6984
11A	Ant1	5745	17.388	5736.3106	5753.6986
11A	Ant1	5785	17.386	5776.3077	5793.6937
11A	Ant1	5825	17.360	5816.3610	5833.7210
11N20SISO	Ant1	5180	18.373	5170.8354	5189.2084
11N20SISO	Ant1	5200	18.416	5190.7940	5209.2100
11N20SISO	Ant1	5240	18.350	5230.8561	5249.2061
11N20SISO	Ant1	5260	18.378	5250.8356	5269.2136
11N20SISO	Ant1	5280	18.349	5270.8599	5289.2089
11N20SISO	Ant1	5320	18.361	5310.8426	5329.2036
11N20SISO	Ant1	5500	18.390	5490.8238	5509.2138
11N20SISO	Ant1	5600	18.395	5590.8048	5609.1998
11N20SISO	Ant1	5700	18.404	5690.8310	5709.2350
11N20SISO	Ant1	5720	18.375	5710.8468	5729.2218
11N20SISO	Ant1	5720 UNII-2C	14.153	5710.8468	5725
11N20SISO	Ant1	5720 UNII-3	4.222	5725	5729.2218
11N20SISO	Ant1	5745	18.402	5735.8126	5754.2146
11N20SISO	Ant1	5785	18.394	5775.8170	5794.2110
11N20SISO	Ant1	5825	18.370	5815.8260	5834.1960
11N40SISO	Ant1	5190	36.851	5171.6340	5208.4850
11N40SISO	Ant1	5230	36.925	5211.6184	5248.5434
11N40SISO	Ant1	5270	36.825	5251.5918	5288.4168
11N40SISO	Ant1	5310	36.973	5291.5864	5328.5594
11N40SISO	Ant1	5510	36.906	5491.6066	5528.5126
11N40SISO	Ant1	5590	36.856	5571.6434	5608.4994
11N40SISO	Ant1	5670	36.917	5651.5855	5688.5025
11N40SISO	Ant1	5710	36.873	5691.6413	5728.5143
11N40SISO	Ant1	5710 UNII-2C	33.359	5691.6413	5725
11N40SISO	Ant1	5710 UNII-3	3.514	5725	5728.5143
11N40SISO	Ant1	5755	36.895	5736.6186	5773.5136
11N40SISO	Ant1	5795	36.890	5776.6064	5813.4964
11AC20SISO	Ant1	5180	18.341	5170.8521	5189.1931
11AC20SISO	Ant1	5200	18.392	5190.8195	5209.2115
11AC20SISO	Ant1	5240	18.363	5230.8341	5249.1971
11AC20SISO	Ant1	5260	18.359	5250.8406	5269.1996
11AC20SISO	Ant1	5280	18.366	5270.8406	5289.2066
11AC20SISO	Ant1	5320	18.347	5310.8528	5329.1998
11AC20SISO	Ant1	5500	18.358	5490.8577	5509.2157
11AC20SISO	Ant1	5600	18.364	5590.8373	5609.2013
11AC20SISO	Ant1	5700	18.392	5690.8386	5709.2306
11AC20SISO	Ant1	5720	18.389	5710.8562	5729.2452
11AC20SISO	Ant1	5720 UNII-2C	14.144	5710.8562	5725
11AC20SISO	Ant1	5720 UNII-3	4.245	5725	5729.2452
11AC20SISO	Ant1	5745	18.375	5735.8514	5754.2264
11AC20SISO	Ant1	5785	18.385	5775.8060	5794.1910
11AC20SISO	Ant1	5825	18.367	5815.8484	5834.2154
11AC40SISO	Ant1	5190	36.898	5171.5873	5208.4853
11AC40SISO	Ant1	5230	36.885	5211.6302	5248.5152
11AC40SISO	Ant1	5270	36.840	5251.5891	5288.4291

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11AC40SISO	Ant1	5310	36.940	5291.6010	5328.5410
11AC40SISO	Ant1	5510	36.901	5491.6084	5528.5094
11AC40SISO	Ant1	5590	36.865	5571.6404	5608.5054
11AC40SISO	Ant1	5670	36.908	5651.5974	5688.5054
11AC40SISO	Ant1	5710	36.884	5691.6222	5728.5062
11AC40SISO	Ant1	5710_UNII-2C	33.378	5691.6222	5725
11AC40SISO	Ant1	5710_UNII-3	3.506	5725	5728.5062
11AC40SISO	Ant1	5755	36.871	5736.6041	5773.4751
11AC40SISO	Ant1	5795	36.901	5776.5835	5813.4845
11AC80SISO	Ant1	5210	75.693	5172.1628	5247.8558
11AC80SISO	Ant1	5290	75.931	5252.1088	5328.0398
11AC80SISO	Ant1	5530	75.930	5492.1421	5568.0721
11AC80SISO	Ant1	5610	76.026	5572.0301	5648.0561
11AC80SISO	Ant1	5690	76.002	5652.1289	5728.1309
11AC80SISO	Ant1	5690_UNII-2C	72.871	5652.1289	5725
11AC80SISO	Ant1	5690_UNII-3	3.131	5725	5728.1309
11AC80SISO	Ant1	5775	76.052	5737.0364	5813.0884
11AX20SISO	Ant1	5180	19.321	5170.3650	5189.6860
11AX20SISO	Ant1	5200	19.397	5190.2797	5209.6767
11AX20SISO	Ant1	5240	19.372	5230.3583	5249.7303
11AX20SISO	Ant1	5260	19.376	5250.3817	5269.7577
11AX20SISO	Ant1	5280	19.360	5270.3341	5289.6941
11AX20SISO	Ant1	5320	19.312	5310.3795	5329.6915
11AX20SISO	Ant1	5500	19.359	5490.3218	5509.6808
11AX20SISO	Ant1	5600	19.296	5590.3537	5609.6497
11AX20SISO	Ant1	5700	19.367	5690.3236	5709.6906
11AX20SISO	Ant1	5720	19.339	5710.3470	5729.6860
11AX20SISO	Ant1	5720_UNII-2C	14.653	5710.3470	5725
11AX20SISO	Ant1	5720_UNII-3	4.686	5725	5729.6860
11AX20SISO	Ant1	5745	19.420	5735.3276	5754.7476
11AX20SISO	Ant1	5785	19.312	5775.3426	5794.6546
11AX20SISO	Ant1	5825	19.301	5815.3442	5834.6452
11AX40SISO	Ant1	5190	38.164	5170.9522	5209.1162
11AX40SISO	Ant1	5230	38.158	5210.9703	5249.1283
11AX40SISO	Ant1	5270	38.187	5250.9349	5289.1219
11AX40SISO	Ant1	5310	38.137	5290.9752	5329.1122
11AX40SISO	Ant1	5510	38.201	5490.9356	5529.1366
11AX40SISO	Ant1	5590	38.140	5570.9493	5609.0893
11AX40SISO	Ant1	5670	38.190	5650.9308	5689.1208
11AX40SISO	Ant1	5710	38.203	5690.9425	5729.1455
11AX40SISO	Ant1	5710_UNII-2C	34.057	5690.9425	5725
11AX40SISO	Ant1	5710_UNII-3	4.145	5725	5729.1455
11AX40SISO	Ant1	5755	38.081	5736.0316	5774.1126
11AX40SISO	Ant1	5795	38.091	5775.9747	5814.0657
11AX80SISO	Ant1	5210	77.850	5171.0918	5248.9418
11AX80SISO	Ant1	5290	78.080	5250.9914	5329.0714
11AX80SISO	Ant1	5530	77.980	5491.1267	5569.1067
11AX80SISO	Ant1	5610	78.072	5571.0958	5649.1678
11AX80SISO	Ant1	5690	78.032	5651.1461	5729.1781
11AX80SISO	Ant1	5690_UNII-2C	73.854	5651.1461	5725
11AX80SISO	Ant1	5690_UNII-3	4.178	5725	5729.1781
11AX80SISO	Ant1	5775	78.113	5736.0923	5814.2053

Test Mode	Antenna	Frequency[MHz]	Ru Size	Ru Index	OCB [MHz]	FL [MHz]	FH [MHz]
11AX20SISO	Ant1	5180	26Tone	RU0	18.647	5169.9103	5188.5573
11AX20SISO	Ant1	5180	52Tone	RU37	18.447	5170.1068	5188.5538
11AX20SISO	Ant1	5180	106Tone	RU53	18.355	5170.2309	5188.5859
11AX20SISO	Ant1	5200	26Tone	RU4	17.030	5191.4598	5208.4898
11AX20SISO	Ant1	5200	52Tone	RU39	17.107	5191.4987	5208.6057
11AX20SISO	Ant1	5200	106Tone	RU54	18.434	5191.3614	5209.7954
11AX20SISO	Ant1	5240	26Tone	RU8	18.738	5231.4095	5250.1475
11AX20SISO	Ant1	5240	52Tone	RU40	18.553	5231.4151	5249.9681
11AX20SISO	Ant1	5240	106Tone	RU54	18.457	5231.4130	5249.8700
11AX20SISO	Ant1	5260	26Tone	RU0	18.623	5249.9224	5268.5454
11AX20SISO	Ant1	5260	52Tone	RU37	18.445	5250.0846	5268.5296
11AX20SISO	Ant1	5260	106Tone	RU53	18.384	5250.2040	5268.5880
11AX20SISO	Ant1	5280	26Tone	RU4	17.106	5271.3973	5288.5033
11AX20SISO	Ant1	5280	52Tone	RU39	17.086	5271.4622	5288.5482
11AX20SISO	Ant1	5280	106Tone	RU54	18.404	5271.3635	5289.7675
11AX20SISO	Ant1	5320	26Tone	RU8	18.870	5311.2880	5330.1580
11AX20SISO	Ant1	5320	52Tone	RU40	18.555	5311.3471	5329.9021
11AX20SISO	Ant1	5320	106Tone	RU54	18.434	5311.3702	5329.8042
11AX20SISO	Ant1	5500	26Tone	RU0	18.683	5489.8175	5508.5005
11AX20SISO	Ant1	5500	52Tone	RU37	18.516	5490.1113	5508.6273
11AX20SISO	Ant1	5500	106Tone	RU53	18.262	5490.1626	5508.4246
11AX20SISO	Ant1	5600	26Tone	RU4	17.034	5591.4182	5608.4522
11AX20SISO	Ant1	5600	52Tone	RU39	17.178	5591.4049	5608.5829
11AX20SISO	Ant1	5600	106Tone	RU54	18.536	5591.3339	5609.8699
11AX20SISO	Ant1	5700	26Tone	RU8	18.845	5691.3075	5710.1525
11AX20SISO	Ant1	5700	52Tone	RU40	18.539	5691.3830	5709.9220
11AX20SISO	Ant1	5700	106Tone	RU54	18.423	5691.4006	5709.8236
11AX20SISO	Ant1	5720	26Tone	RU0	18.710	5709.8209	5728.5309
11AX20SISO	Ant1	5720	26Tone	RU8	18.826	5711.3503	5730.1763
11AX20SISO	Ant1	5720	52Tone	RU37	18.467	5710.0708	5728.5378
11AX20SISO	Ant1	5720	52Tone	RU40	18.531	5711.3848	5729.9158
11AX20SISO	Ant1	5720	106Tone	RU53	18.424	5710.2172	5728.6412
11AX20SISO	Ant1	5720	106Tone	RU54	18.476	5711.3111	5729.7871
11AX20SISO	Ant1	5720 UNII-2C	26Tone	RU0	15.179	5709.8209	5725
11AX20SISO	Ant1	5720 UNII-2C	26Tone	RU8	13.65	5711.3503	5725
11AX20SISO	Ant1	5720 UNII-2C	52Tone	RU37	14.929	5710.0708	5725
11AX20SISO	Ant1	5720 UNII-2C	52Tone	RU40	13.615	5711.3848	5725
11AX20SISO	Ant1	5720 UNII-2C	106Tone	RU53	14.783	5710.2172	5725
11AX20SISO	Ant1	5720 UNII-2C	106Tone	RU54	13.689	5711.3111	5725
11AX20SISO	Ant1	5720 UNII-3	26Tone	RU0	3.531	5725	5728.5309
11AX20SISO	Ant1	5720 UNII-3	26Tone	RU8	5.176	5725	5730.1763
11AX20SISO	Ant1	5720 UNII-3	52Tone	RU37	3.538	5725	5728.5378
11AX20SISO	Ant1	5720 UNII-3	52Tone	RU40	4.916	5725	5729.9158
11AX20SISO	Ant1	5720 UNII-3	106Tone	RU53	3.641	5725	5728.6412
11AX20SISO	Ant1	5720 UNII-3	106Tone	RU54	4.787	5725	5729.7871
11AX20SISO	Ant1	5745	26Tone	RU0	18.690	5734.8686	5753.5586
11AX20SISO	Ant1	5745	52Tone	RU37	18.496	5735.0445	5753.5405
11AX20SISO	Ant1	5745	106Tone	RU53	18.455	5735.1814	5753.6364
11AX20SISO	Ant1	5785	26Tone	RU4	17.149	5776.4326	5793.5816
11AX20SISO	Ant1	5785	52Tone	RU39	17.266	5776.3415	5793.6075
11AX20SISO	Ant1	5785	106Tone	RU54	18.452	5776.3899	5794.8419
11AX20SISO	Ant1	5825	26Tone	RU8	18.758	5816.3966	5835.1546
11AX20SISO	Ant1	5825	52Tone	RU40	18.583	5816.3935	5834.9765
11AX20SISO	Ant1	5825	106Tone	RU54	18.490	5816.3808	5834.8708

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