

TEST REPORT

Application No.: KSCR2512002641AT
FCC ID: 2BTZASRN
Applicant: WEIHAI NEW BEIYANG RONGXIN TECHNOLOGY CO LTD
Address of Applicant: NO.126 KUNLUN RD HUANCUI DISTRICT WEIHAI,SHANDONG 264203 CHINA
Manufacturer: WEIHAI NEW BEIYANG RONGXIN TECHNOLOGY CO LTD
Address of Manufacturer: NO.126 KUNLUN RD HUANCUI DISTRICT WEIHAI,SHANDONG 264203 CHINA
Factory: WEIHAI NEW BEIYANG RONGXIN TECHNOLOGY CO LTD
Address of Factory: NO.126 KUNLUN RD HUANCUI DISTRICT WEIHAI,SHANDONG 264203 CHINA
Equipment Under Test (EUT):
EUT Name: FEDBV4.2
Model No.: FEDBV4.2
Standard(s) : 47 CFR Part 15, Subpart E 15.407
Date of Receipt: 2025-12-04
Date of Test: 2025-12-24 to 2026-01-05
Date of Issue: 2026-01-07

Test Result:
Pass*

* In the configuration tested, the EUT complied with the standards specified above.

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Revision Record			
Version	Description	Date	Remark
00	Original	2026-01-07	/

Authorized for issue by:			
Tested By		Maker Qi	
		Maker_Qi/Project Engineer	
Approved By		Terry Hou	
		Terry Hou /Reviewer	

2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart E 15.407	N/A	47 CFR Part 15, Subpart C 15.203	Customer Declaration
Transmission in the Absence of Data		N/A	47 CFR Part 15, Subpart E 15.407 (c)	Customer Declaration

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart E 15.407	ANSI C63.10 (2020) Section 6.2	47 CFR Part 15, Subpart C 15.207 & Subpart E 15.407 b(9)	Pass
Radiated Emissions (Below 1GHz)		ANSI C63.10 (2020) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions (Above 1GHz)		ANSI C63.10 (2020) Section 6.6	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions which fall in the restricted bands		ANSI C63.10 (2020) Section 6.10.5	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Duty Cycle		ANSI C63.10 (2020) Section 12.2	ANSI C63.10 (2020) Section 12.2	Pass
99% Bandwidth		ANSI C63.10 (2020) Section 12.5.3	ANSI C63.10 (2020) Section 12.5.3	Pass
26dB Emission bandwidth		ANSI C63.10 (2020) Section 12.5.2	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Minimum 6 dB bandwidth (5.725-5.85 GHz band)		ANSI C63.10 (2020) Section 12.5.1	47 CFR Part 15, Subpart E 15.407 (e)	Pass
Maximum Conducted output power		ANSI C63.10 (2020) Section 12.4	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Peak Power spectrum density		ANSI C63.10 (2020) Section 12.6	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Frequency Stability		ANSI C63.10 (2020) Section 6.8	47 CFR Part 15, Subpart E 15.407 (g)	Pass
Channel Move Time		KDB 905462 D02 Section 7.8.3	KDB 905462 D02 Section 5.1	Pass
Channel Closing Transmission Time		KDB 905462 D02 Section 7.8.3	KDB 905462 D02 Section 5.1	Pass
Non-occupancy period		KDB 905462 D02 Section 7.8.3	KDB 905462 D02 Section 5.1	Pass

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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 24V/2.5A
Operation Frequency/Number of channels (20MHz):	U-NII-1: 5180-5240MHz (4 Channels); U-NII-2A: 5260-5320MHz (4 Channels); U-NII-2C: 5500-5700MHz (11 Channels); U-NII-3: 5745-5825MHz (5 Channels)
Modulation Type:	802.11a: OFDM (BPSK, QPSK, 16QAM, 64QAM); 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM); 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)
Channel Spacing:	802.11a/n/ac 20: 20MHz
DFS Function:	Slave without Radar detection
TPC Function:	Without TPC function
Antenna Type:	Rob Antenna
Antenna Gain:	2.39dBi (Provided by the manufacturer)

4.2 Power level setting using in test

Channel	802.11a	802.11n(HT20)/11ac(VHT20)
	Ant 1	Ant 1
36	18	18
40	18	18
48	18	18
52	18	18
60	18	18
64	18	18
100	18	18
116	19	21
140	20	20
149	21	21
157	21	21
165	21	21

4.3 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Notebook	LENOVO	K27	EB24537645

4.4 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	8.4×10^{-8}
2	Timeout	2s
3	Duty Cycle	0.37%
4	Occupied Bandwidth	3%
5	RF Conducted Power	0.6dB
6	RF Power Density	2.9dB
7	Conducted Spurious Emissions	0.75dB
8	RF Radiated Power	5.2dB (Below 1GHz)
		5.9dB (Above 1GHz)
9	Radiated Spurious Emission Test	4.2dB (Below 30MHz)
		4.5dB (30MHz-1GHz)
		5.1dB (1GHz-18GHz)
		5.4dB (Above 18GHz)
10	Temperature Test	1°C
11	Humidity Test	3%
12	Supply Voltages	1.5%
13	Time	3%
Note: The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.		

4.5 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

No tests were sub-contracted.

Note:

1. SGS is not responsible for wrong test results due to incorrect information (e.g., max. internal working frequency, antenna gain, cable loss, etc) is provided by the applicant. (If applicable).
2. SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (If applicable).
3. Sample source: sent by customer.

4.6 Test Facility

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

- **A2LA (Certificate No. 2541.01)**

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA).

- **FCC (Designation Number: CN1172)**

Compliance Certification Services (Kunshan) Inc. has been recognized as an accredited testing laboratory.

- **ISED (CAB Identifier: CN0072)**

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory.

Company Number: 2324E

- **VCCI (Member No:1938)**

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-20134, R-11600, C-11707, T-11499, G-10216 respectively.

4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

None

5 Equipment List

Item	Equipment	Manufacturer	Model	Inventory No	Cal Date	Cal. Due Date
Conducted Emission at Mains Terminals						
1	EMI Test Receive	R&S	ESCI	KS301196	07/09/2025	07/08/2026
2	LISN	R&S	ENV216	KS301197	01/15/2025	01/14/2026
3	LISN	Schwarzbeck	NNLK 8129	KS301091	01/15/2025	01/14/2026
4	Pulse Limiter	R&S	ESH3-Z2	KUS1902E001	12/04/2025	12/03/2026
5	CE test Cable	Thermax	/	CZ301102	01/14/2025	01/13/2026
6	Test Software	Farad	EZ-EMC	/	N.C.R	N.C.R
RF Conducted Test						
1	Spectrum Analyzer	Keysight	N9020A	KUS1911E004-2	07/09/2025	07/08/2026
2	Spectrum Analyzer	Keysight	N9020A	KUS2001M001-2	07/09/2025	07/08/2026
3	Spectrum Analyzer	Keysight	N9030B	KSEM021-1	01/15/2025	01/14/2026
4	Signal Generator	R&S	SMBV100B	KSEM032	02/19/2025	02/18/2026
5	Signal Generator	R&S	SMW200A	KSEM020-1	07/09/2025	07/08/2026
6	Signal Generator	Agilent	N5182A	KUS2001M001-1	07/08/2025	07/07/2026
7	Signal Generator	Agilent	E8257C	KS301066	07/22/2025	07/21/2026
8	Radio Communication Test Station	Anritsu	MT8000A	KSEM001-1	07/09/2025	07/08/2026
9	Radio Communication Analyzer	Anritsu	MT8821C	KSEM002-1	02/19/2025	02/18/2026
10	Universal Radio Communication Tester	R&S	CMW500	KUS1911E004-1	07/08/2025	07/07/2026
11	Switcher	TST	FY562	KUS2001M001-4	01/15/2025	01/14/2026
12	Conducted Test Cable	Thermax	RF01-RF04	CZ301111-CZ301120	01/14/2025	01/13/2026
13	Temp. / Humidity Chamber	TERCHY	MHK-120AK	KS301190	07/15/2025	07/14/2026
14	Temperature & Humidity Recorder	Renke Control	RS-WS-N01-6J	KSEM024-5	02/26/2025	02/25/2026
15	Software	BST	TST-PASS	/	NCR	NCR
RF Radiated Test						
1	Spectrum Analyzer	R&S	FSV40	KUS1806E003	07/09/2025	07/08/2026
2	Universal Radio Communication Tester	R&S	CMW500	KSEM009-1	02/18/2025	02/17/2026
3	Signal Generator	Agilent	E8257C	KS301066	07/22/2025	07/21/2026
4	Loop Antenna (9KHz-30MHz)	COM-POWER	AL-130R	KUS1806E001	07/11/2025	07/10/2026
5	Bilog Antenna (30MHz-1GHz)	TESEQ	CBL 6112D	KUS1806E005	07/12/2025	07/11/2026
6	Horn-antenna(1-18GHz)	Schwarzbeck	BBHA9120D	KS301079	03/23/2024	03/22/2026
7	Horn Antenna(18-40GHz)	Schwarzbeck	BBHA9170	CZ301058	01/07/2024	01/06/2026
8	Amplifier(30MHz~1GHz)	TST	LNA009100G30	KSEM061	01/15/2025	01/14/2026
9	Amplifier(400MHz~8GHz)	TST	LNA004080G30	KSEM062	01/15/2025	01/14/2026
10	Amplifier(1GHz~18GHz)	TST	LNA010180G45	KSEM039	07/09/2025	07/08/2026
11	Amplifier(18~40GHz)	TST	LNA180400G40	KSEM038	07/09/2025	07/08/2026
12	Temperature & Humidity Recorder	Renke Control	RS-WS-N01-6J	KSEM024-4	02/26/2025	02/25/2026
13	Software	ESE	E3_V 6.111221a	/	NCR	NCR
14	Measurement Software	Tonscend	JS32-RE V5.0.0.1	/	NCR	NCR



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15	Measurement Software	Tonscend	JS32-RSE V5.0.0.0	/	NCR	NCR
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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

6.1.2 Conclusion

Standard 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 antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit permanently attached antenna or of an so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

The antenna is Rob Antenna and no consideration of replacement. The best case gain of the antenna is 2.39dBi.

Antenna location: Refer to External Photo.

6.2 Transmission in the Absence of Data

6.2.1 Test Requirement:

47 CFR Part 15, Subpart E 15.407 (c)

6.2.2 Conclusion

6.2.2 Conclusion

Standard Requirement:

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signalling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals.

Applicants shall include in their application for equipment authorization a description of how this requirement is met.

EUT Details:

WIFI chip support automatically discontinue transmission in case of either absence of information to transmit or operational failure, if the chip detect absence of information to transmit or operational failure, it will be automatically shut off.

7 Radio Spectrum Matter Test Results

7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.207 & Subpart E 15.407 b(9)

Test Method: ANSI C63.10 (2020) Section 6.2

Limit:

Frequency of emission(MHz)	Conducted limit(dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 20.4 °C

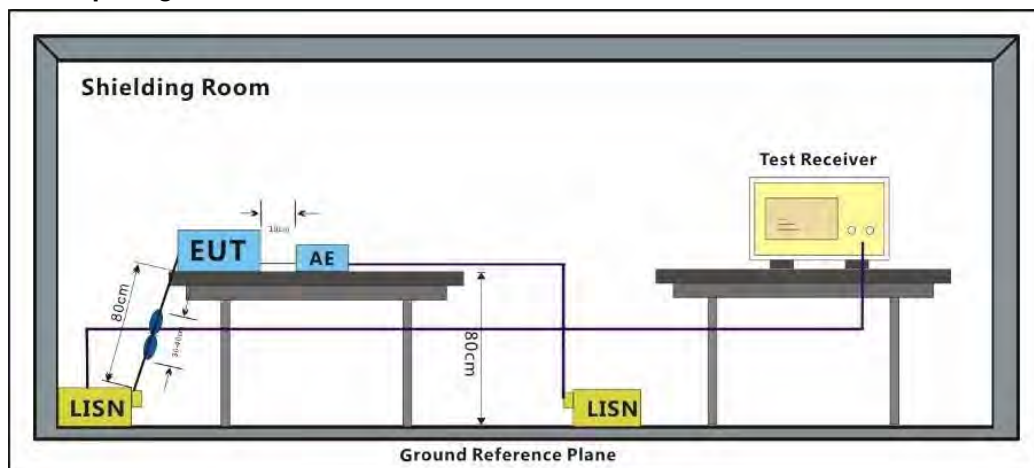
Humidity: 47.1 % RH

Atmospheric Pressure: 1010 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.

7.1.3 Test Setup Diagram

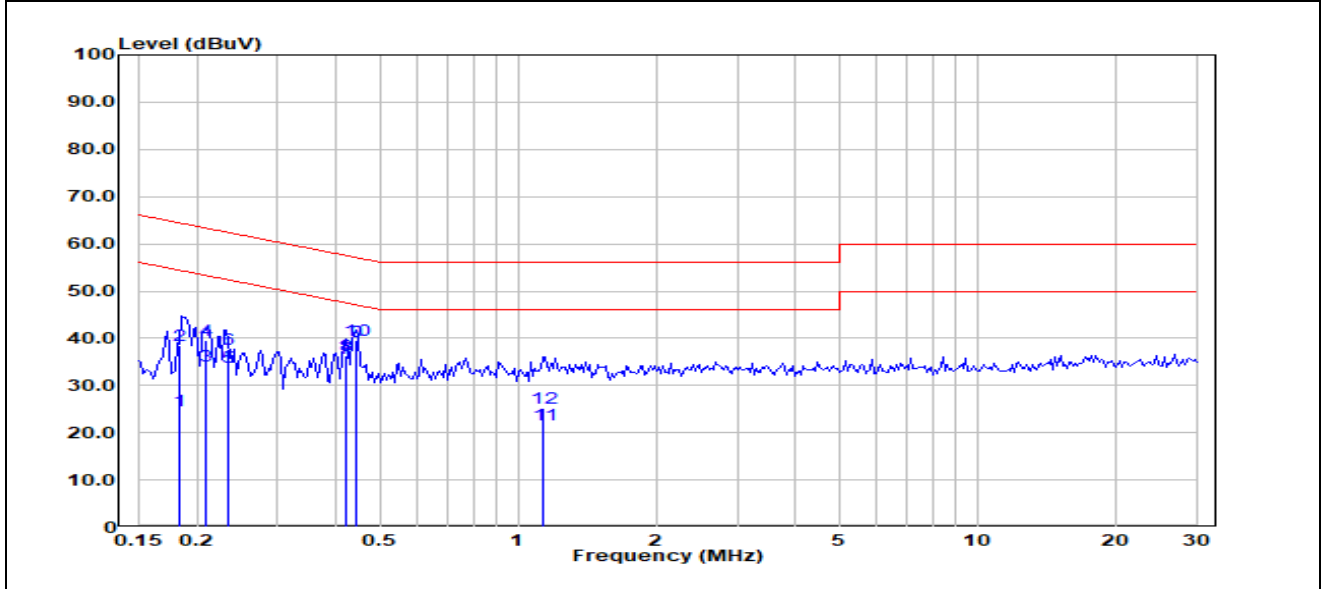


7.1.4 Measurement Procedure and Data

- 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 50ohm/50μH + 5ohm 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.

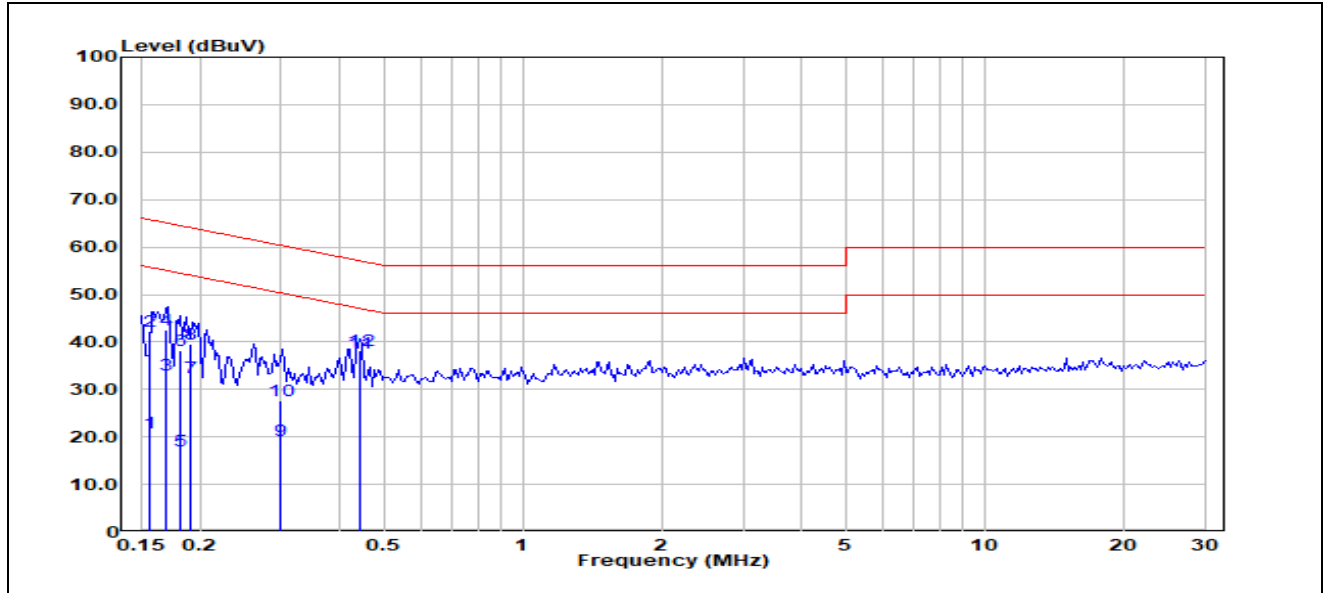
Remark 1: $\text{Level} = \text{Read Level} + \text{Cable Loss} + \text{LISN Factor}$

Test Mode: 01; Line: Live line



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1840	4.71	19.89	24.60	54.30	-29.70	Average
2	0.1840	18.55	19.89	38.44	64.30	-25.86	QP
3	0.2100	14.44	19.78	34.22	53.21	-18.99	Average
4	0.2100	19.83	19.78	39.61	63.21	-23.60	QP
5	0.2332	14.13	19.76	33.89	52.33	-18.44	Average
6	0.2332	17.86	19.76	37.62	62.33	-24.71	QP
7	0.4229	16.14	19.69	35.83	47.39	-11.56	Average
8	0.4229	16.66	19.69	36.35	57.39	-21.04	QP
9	0.4434	19.50	19.68	39.18	47.00	-7.82	Average
10	0.4434	19.85	19.68	39.53	57.00	-17.47	QP
11	1.1390	1.78	19.90	21.68	46.00	-24.32	Average
12	1.1390	5.26	19.90	25.16	56.00	-30.84	QP

Test Mode: 01; Line: Neutral Line



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1551	0.78	20.05	20.83	55.72	-34.89	Average
2	0.1551	22.19	20.05	42.24	65.72	-23.48	QP
3	0.1696	13.17	19.98	33.15	54.98	-21.83	Average
4	0.1696	22.66	19.98	42.64	64.98	-22.34	QP
5	0.1816	-2.75	19.93	17.18	54.41	-37.23	Average
6	0.1816	18.38	19.93	38.31	64.41	-26.10	QP
7	0.1917	12.74	19.89	32.63	53.96	-21.33	Average
8	0.1917	19.64	19.89	39.53	63.96	-24.43	QP
9	0.3000	-0.25	19.61	19.36	50.24	-30.88	Average
10	0.3000	8.16	19.61	27.77	60.24	-32.47	QP
11	0.4435	18.12	19.61	37.73	47.00	-9.27	Average
12	0.4435	18.55	19.61	38.16	57.00	-18.84	QP

7.2 Radiated Emissions (Below 1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)

Test Method: ANSI C63.10 (2020) Section 6.4,6.5

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
960-1000	500	3

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C

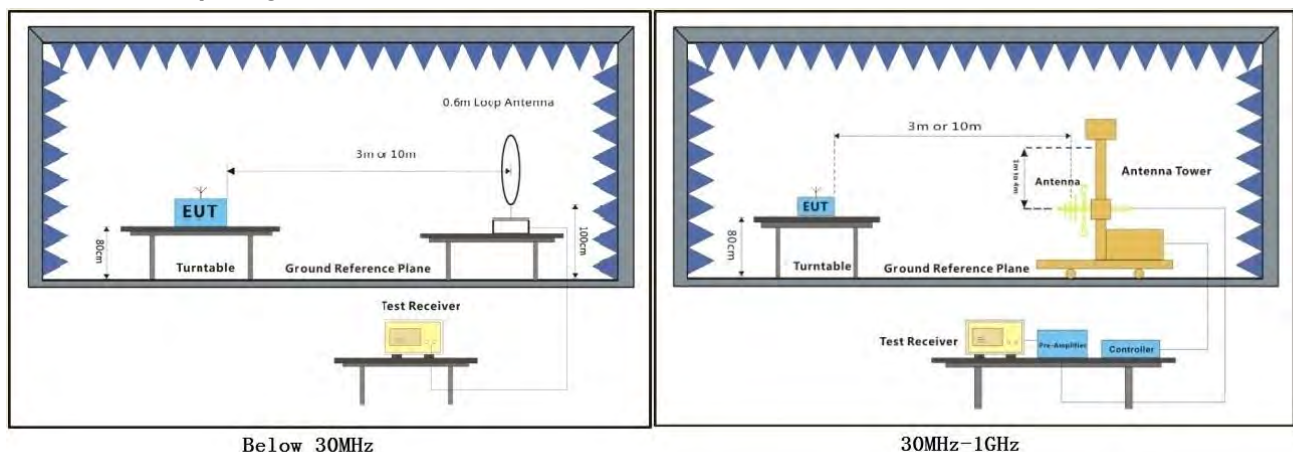
Humidity: 47.2 % RH

Atmospheric Pressure: 1010 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested, Only the data of worst case is recorded in the report.

7.2.3 Test Setup Diagram



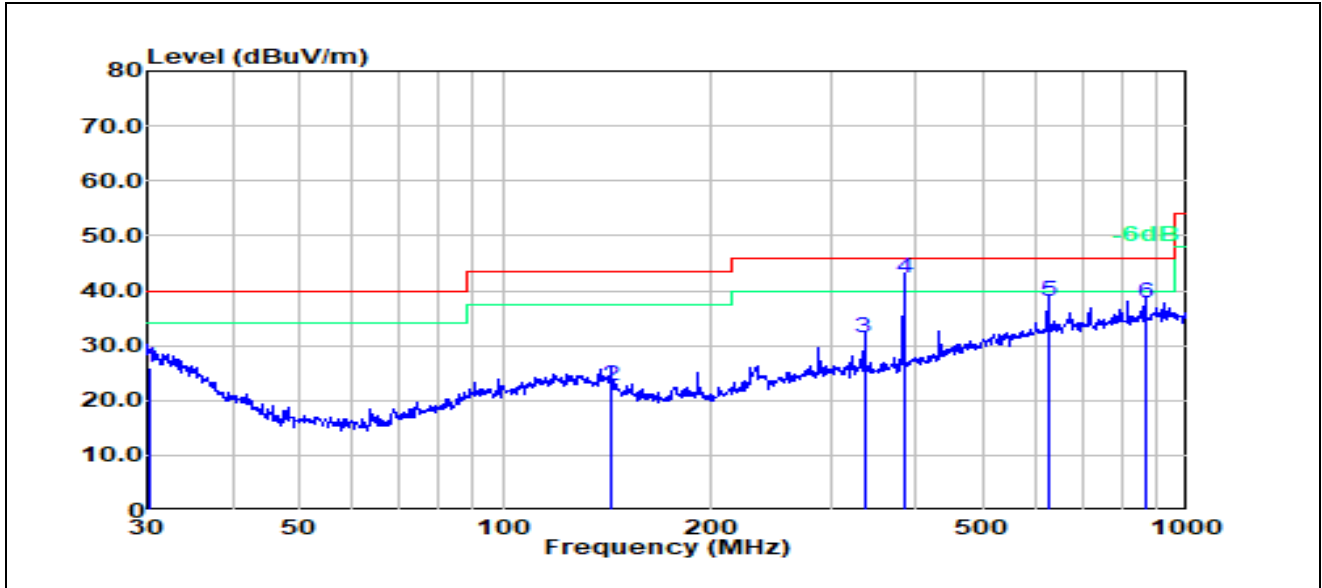
7.2.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

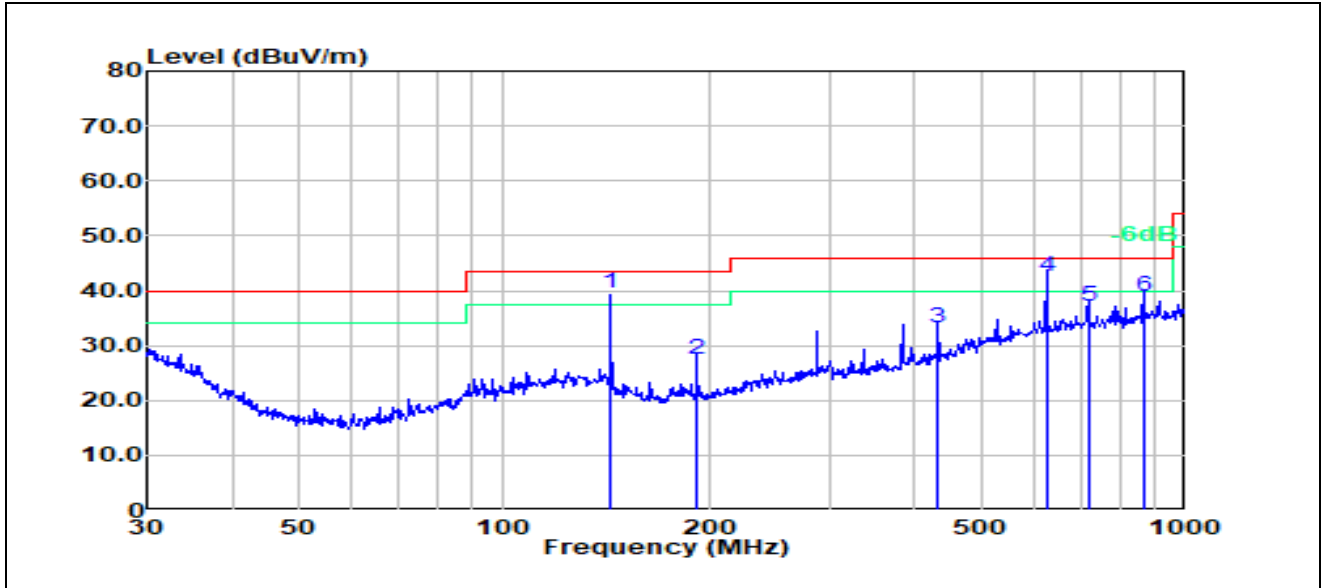
1. $\text{Level} = \text{Read Level} + \text{Cable Loss} + \text{Antenna Factor} - \text{Preamp Factor}$
2. For emission below 1GHz, through the pre-scan found the worst case is the lowest channel of 802.11a. Only the worst case is recorded in the report.
3. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
4. The disturbance below 1GHz was very low and the below harmonics were the highest point could be found when testing, so only the below harmonics had been displayed.

Test Mode: 01; Polarity: Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	30.32	1.15	24.87	26.02	40.00	-13.98	100	244	QP
2	143.83	3.53	19.25	22.78	43.50	-20.72	100	334	QP
3	336.04	9.53	21.92	31.45	46.00	-14.55	200	132	QP
4	383.93	19.12	23.01	42.13	46.00	-3.87	200	36	QP
5	625.08	9.31	28.71	38.02	46.00	-7.98	100	313	QP
6	866.09	7.02	30.67	37.69	46.00	-8.31	100	244	QP

Test Mode: 01; Polarity: Vertical



No.	Frequency (MHz)	Reading (dBUV)	Correct Factor(dB/m)	Result (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	143.83	20.44	19.25	39.69	43.50	-3.81	100	234	QP
2	191.75	9.83	17.58	27.41	43.50	-16.09	100	316	QP
3	432.55	8.91	24.37	33.28	46.00	-12.72	100	0	QP
4	625.08	13.81	28.71	42.52	46.00	-3.48	100	262	QP
5	721.73	7.18	29.96	37.14	46.00	-8.86	100	276	QP
6	866.09	8.36	30.67	39.03	46.00	-6.97	100	350	QP

7.3 Radiated Emissions (Above 1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)

Test Method: ANSI C63.10 (2020) Section 6.6

Measurement Distance: 3m

Limit:

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

*(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(4) For transmitters operating in the 5.725-5.85 GHz band:

(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, 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.

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C

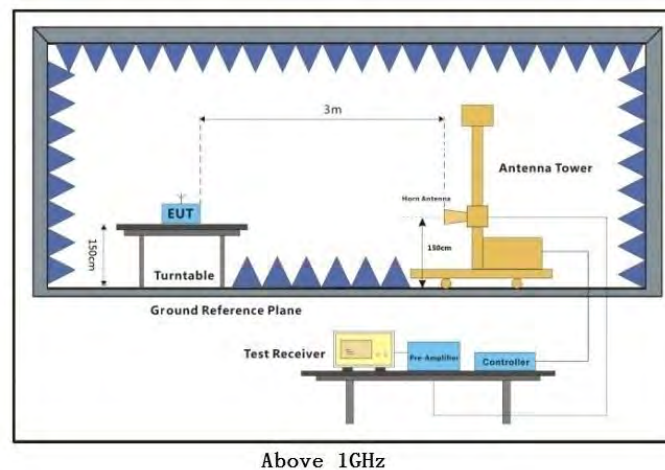
Humidity: 47.2 % RH

Atmospheric Pressure: 1010 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a, Only the data of worst case is recorded in the report.
Final test	02	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a, Only the data of worst case is recorded in the report.
Final test	03	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a, Only the data of worst case is recorded in the report.
Final test	04	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a, Only the data of worst case is recorded in the report.

7.3.3 Test Setup Diagram



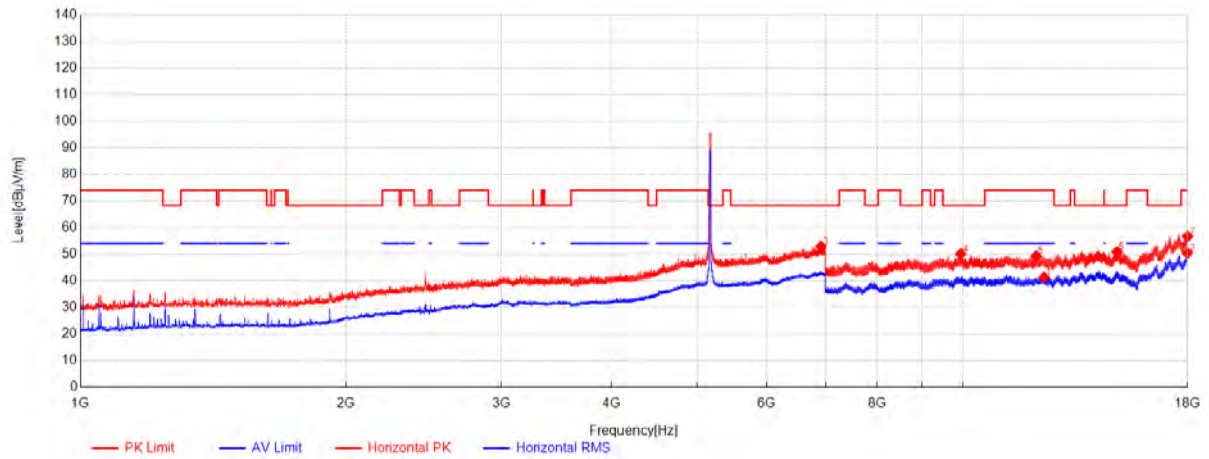
7.3.4 Measurement Procedure and Data

- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

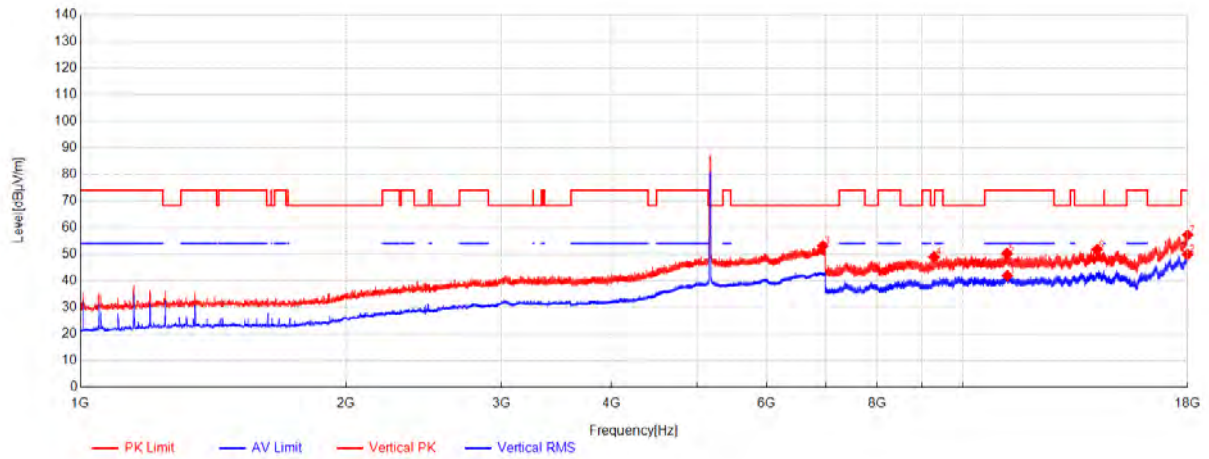
1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on below plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. 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. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
4. The disturbance above 18GHz were very low and the below harmonics were the highest point could be found when testing, so only the below harmonics had been displayed.
5. For devices with multiple operating modes, measurements on the middle channel is used to determine the worst-case mode(s). Only the worst case mode with the highest output power and the mode with the highest output power spectral density for each modulation family (e.g., OFDM and direct sequence spread spectrum) is recorded in the test report.
6. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.
7. For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle<98%) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.

11a_TX_CH_36_Horizontal



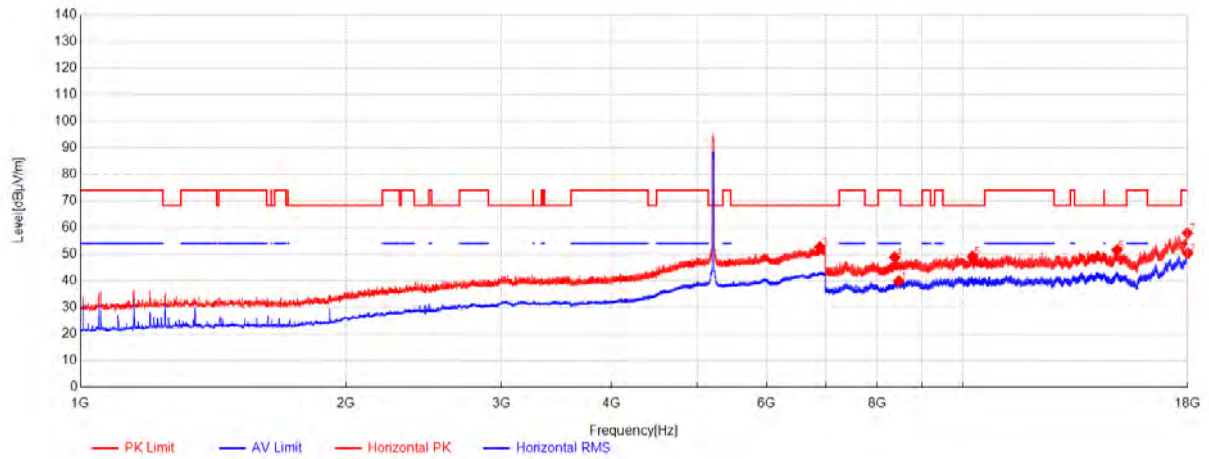
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	12372.0333	45.87	38.86	-43.36	41.37	54.00	12.63	Horizontal
2	17984.2333	49.15	43.20	-41.96	50.39	54.00	3.61	Horizontal
3	6910	38.87	35.18	-21.14	52.91	68.20	15.29	Horizontal
4	9952.4	56.03	39.08	-45.04	50.07	68.20	18.13	Horizontal
5	12119.0333	53.60	39.24	-43.53	49.31	74.00	24.69	Horizontal
6	14967.3	52.90	39.73	-41.76	50.87	68.20	17.33	Horizontal
7	17991.9333	55.38	43.20	-41.86	56.72	74.00	17.28	Horizontal

11a_TX_CH_36_Vertical



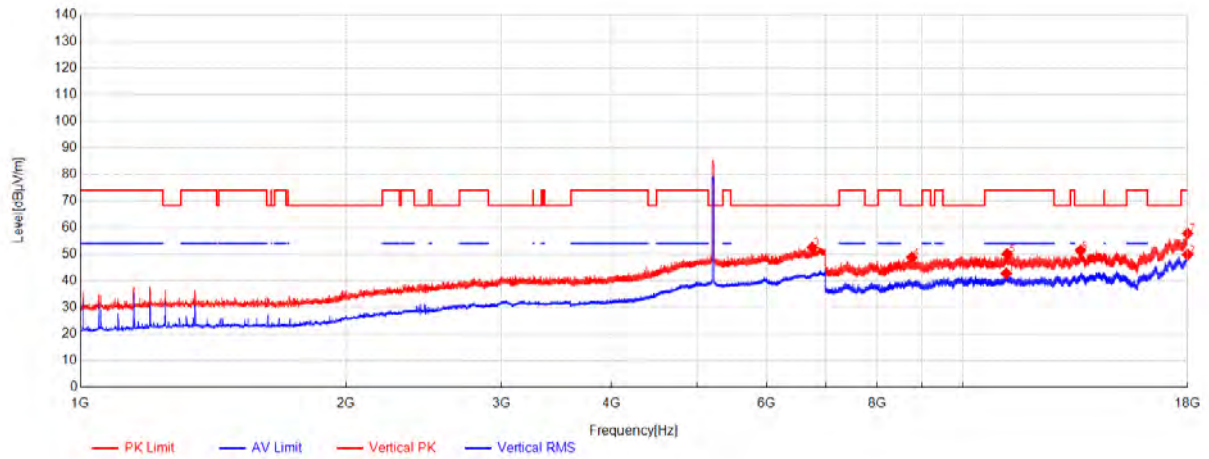
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11241.6	46.88	39.58	-44.52	41.94	54.00	12.06	Vertical
2	17994.8667	48.54	43.20	-41.82	49.92	54.00	4.08	Vertical
3	6941	39.30	35.12	-21.37	53.05	68.20	15.15	Vertical
4	9283.6	57.36	38.13	-46.51	48.98	68.20	19.22	Vertical
5	11230.9667	55.20	39.56	-44.52	50.24	74.00	23.76	Vertical
6	14207.9333	53.28	40.54	-42.12	51.70	68.20	16.50	Vertical
7	17998.5333	55.82	43.20	-41.77	57.25	74.00	16.75	Vertical

11a_TX_CH_44_Horizontal



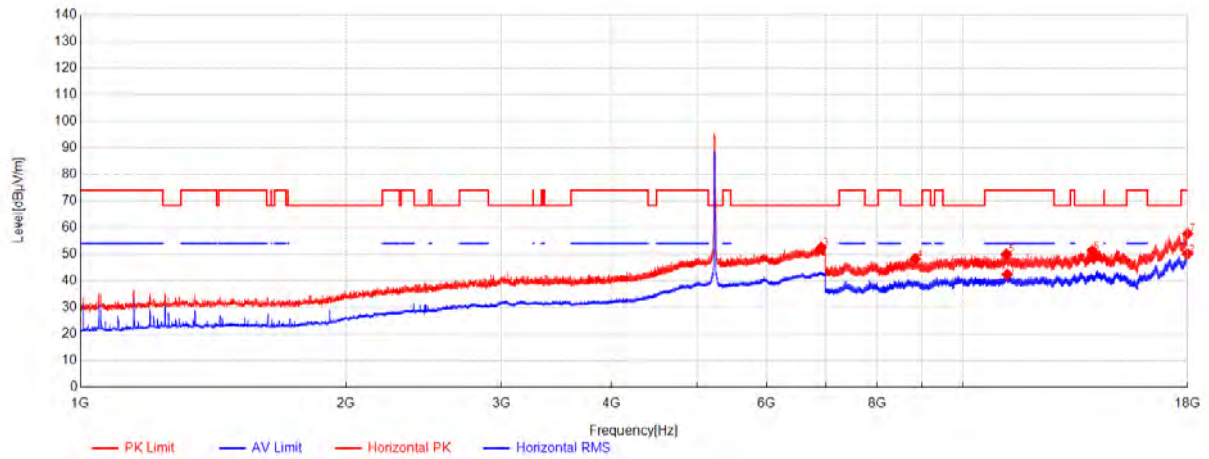
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	8470.7	49.43	36.84	-46.39	39.88	54.00	14.12	Horizontal
2	17999.6333	48.86	43.20	-41.75	50.31	54.00	3.69	Horizontal
3	6890	38.74	35.06	-21.11	52.69	68.20	15.51	Horizontal
4	8379.7667	59.09	36.90	-47.18	48.81	74.00	25.19	Horizontal
5	10264.4333	55.22	39.40	-45.43	49.19	68.20	19.01	Horizontal
6	14968.0333	53.55	39.73	-41.74	51.54	68.20	16.66	Horizontal
7	17983.5	56.69	43.20	-41.97	57.92	74.00	16.08	Horizontal

11a_TX_CH_44_Vertical



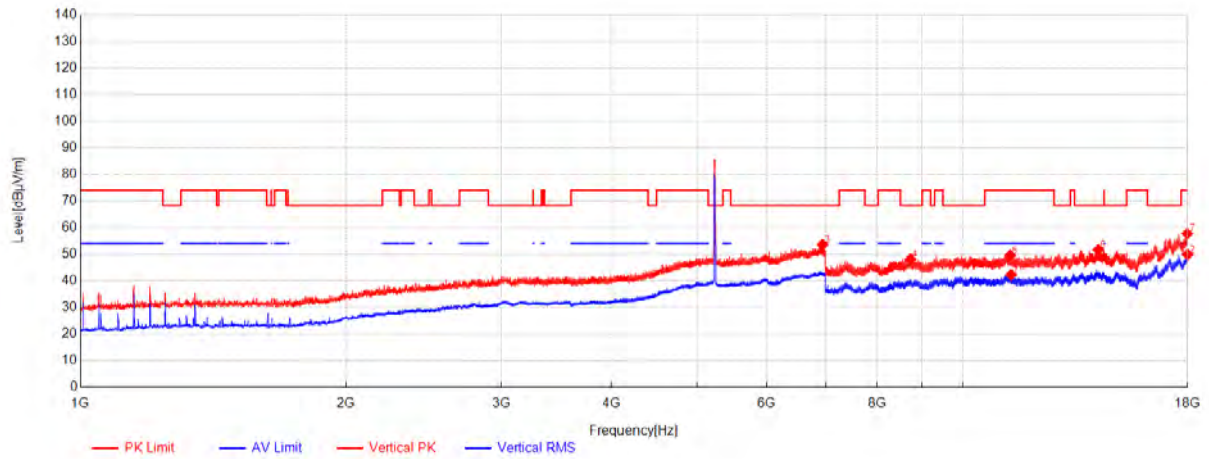
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11212.6333	47.76	39.53	-44.51	42.78	54.00	11.22	Vertical
2	17999.2667	48.40	43.20	-41.76	49.84	54.00	4.16	Vertical
3	6755	39.60	34.63	-21.72	52.51	68.20	15.69	Vertical
4	8761.4667	57.37	37.58	-46.23	48.72	68.20	19.48	Vertical
5	11236.8333	54.96	39.57	-44.52	50.01	74.00	23.99	Vertical
6	13604.4	53.65	40.41	-42.70	51.36	68.20	16.84	Vertical
7	17996.3333	56.39	43.20	-41.80	57.79	74.00	16.21	Vertical

11a_TX_CH_48_Horizontal



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11239.0333	47.33	39.58	-44.52	42.39	54.00	11.61	Horizontal
2	17986.8	48.84	43.20	-41.92	50.12	54.00	3.88	Horizontal
3	6914	38.47	35.17	-21.17	52.47	68.20	15.73	Horizontal
4	8837	57.04	37.65	-46.43	48.26	68.20	19.94	Horizontal
5	11213	54.90	39.53	-44.51	49.92	74.00	24.08	Horizontal
6	14024.2333	53.31	40.45	-42.53	51.23	68.20	16.97	Horizontal
7	17999.6333	56.29	43.20	-41.75	57.74	74.00	16.26	Horizontal

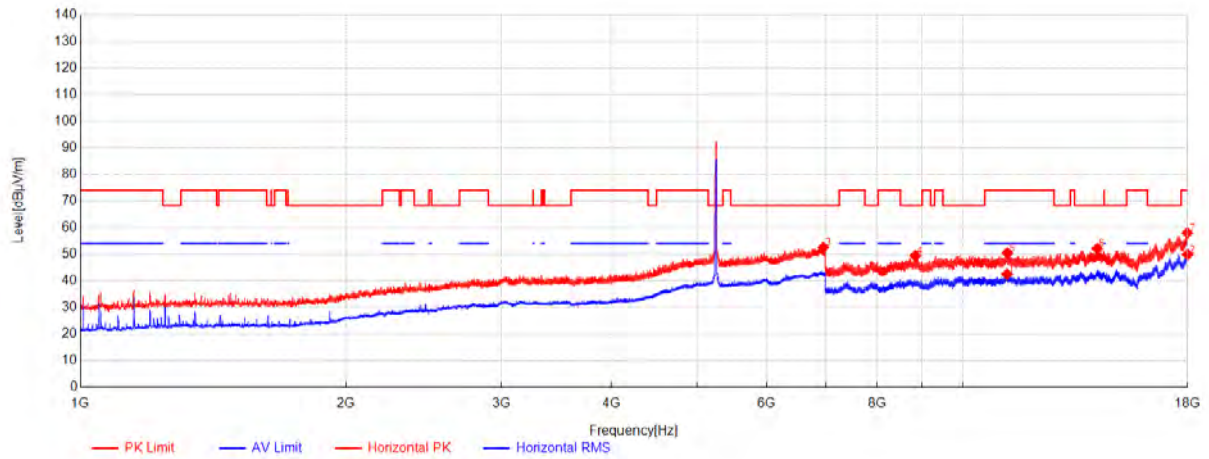
11a_TX_CH_48_Vertical



Data List

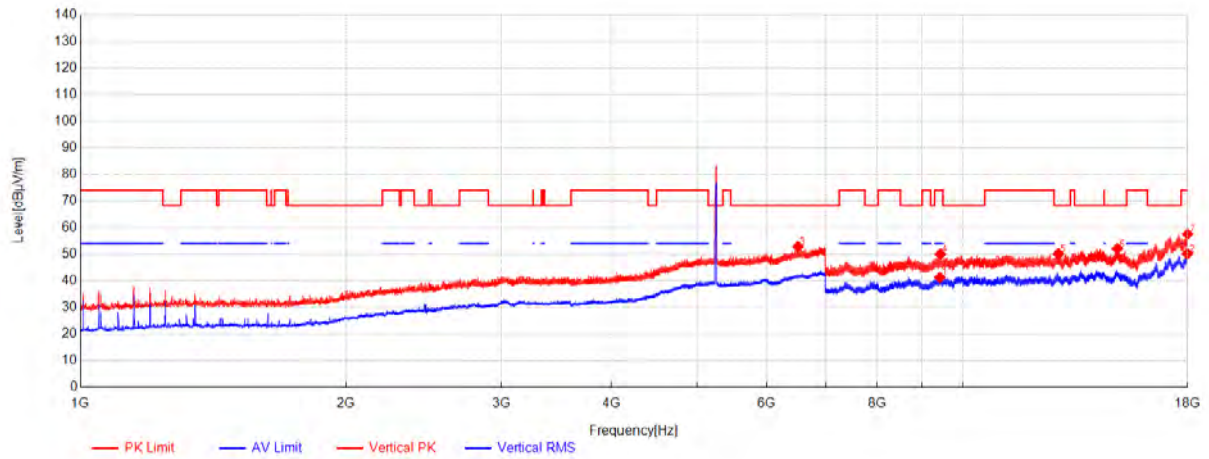
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11351.9667	47.09	39.50	-44.32	42.27	54.00	11.73	Vertical
2	17997.0667	48.47	43.20	-41.79	49.88	54.00	4.12	Vertical
3	6940	39.85	35.12	-21.36	53.61	68.20	14.59	Vertical
4	8729.5667	56.61	37.56	-46.02	48.15	68.20	20.05	Vertical
5	11328.1333	54.54	39.46	-44.42	49.58	74.00	24.42	Vertical
6	14252.3	53.78	40.20	-42.35	51.63	68.20	16.57	Vertical
7	17980.2	56.55	43.20	-42.01	57.74	74.00	16.26	Vertical

11a_TX_CH_52_Horizontal



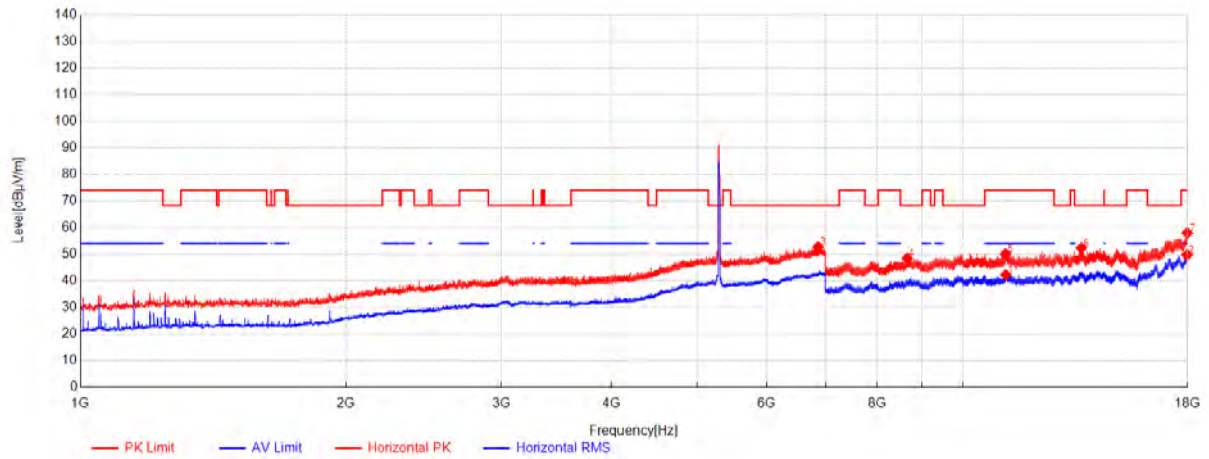
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11233.5333	47.43	39.57	-44.52	42.48	54.00	11.52	Horizontal
2	17995.6	48.49	43.20	-41.81	49.88	54.00	4.12	Horizontal
3	6953	38.86	35.12	-21.46	52.52	68.20	15.68	Horizontal
4	8842.1333	58.16	37.67	-46.42	49.41	68.20	18.79	Horizontal
5	11243.8	55.33	39.59	-44.52	50.40	74.00	23.60	Horizontal
6	14208.3	53.69	40.53	-42.12	52.10	68.20	16.10	Horizontal
7	17984.2333	56.73	43.20	-41.96	57.97	74.00	16.03	Horizontal

11a_TX_CH_52_Vertical



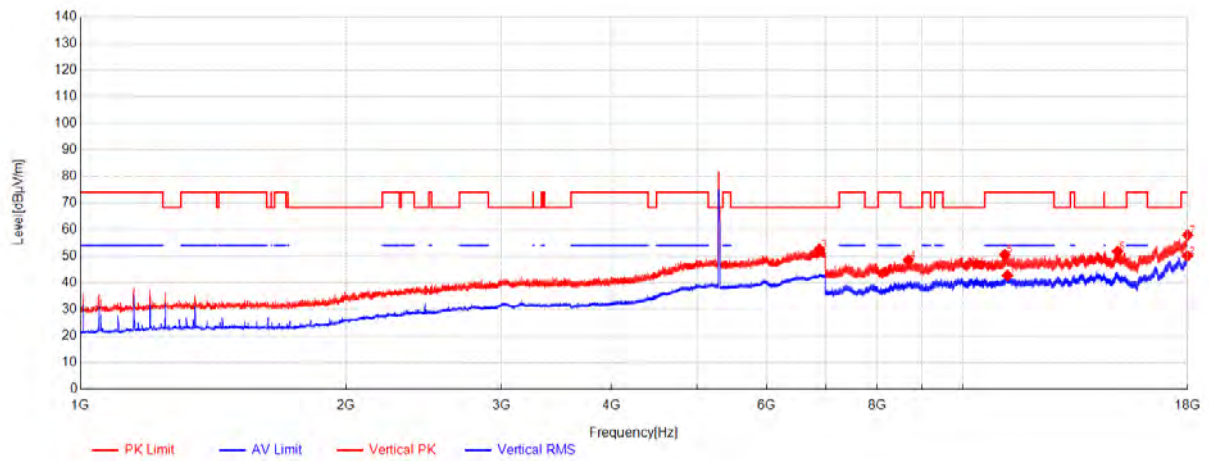
Data List								
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1	9425.5	48.88	38.50	-46.11	41.27	54.00	12.73	Vertical
2	17984.6	48.92	43.20	-41.95	50.17	54.00	3.83	Vertical
3	6509	39.98	34.29	-21.43	52.84	68.20	15.36	Vertical
4	9437.2333	57.41	38.55	-45.97	49.99	74.00	24.01	Vertical
5	12842.8333	53.58	39.81	-43.27	50.12	68.20	18.08	Vertical
6	14977.5667	53.93	39.69	-41.57	52.05	68.20	16.15	Vertical
7	17998.1667	56.12	43.20	-41.77	57.55	74.00	16.45	Vertical

11a_TX_CH_60_Horizontal



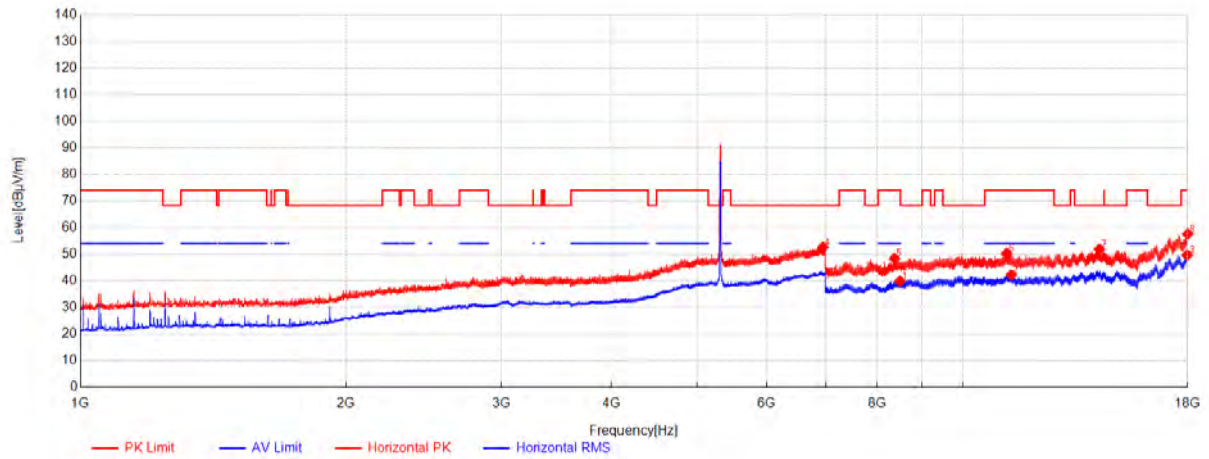
Data List								
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1	11198.7	47.28	39.49	-44.51	42.26	54.00	11.74	Horizontal
2	17970.6667	48.64	43.20	-42.13	49.71	54.00	4.29	Horizontal
3	6860	39.36	34.64	-21.23	52.77	68.20	15.43	Horizontal
4	8655.5	57.07	37.41	-46.05	48.43	68.20	19.77	Horizontal
5	11191	55.14	39.46	-44.53	50.07	74.00	23.93	Horizontal
6	13638.1333	54.58	40.48	-42.76	52.30	68.20	15.90	Horizontal
7	17981.6667	56.74	43.20	-41.99	57.95	74.00	16.05	Horizontal

11a_TX_CH_60_Vertical



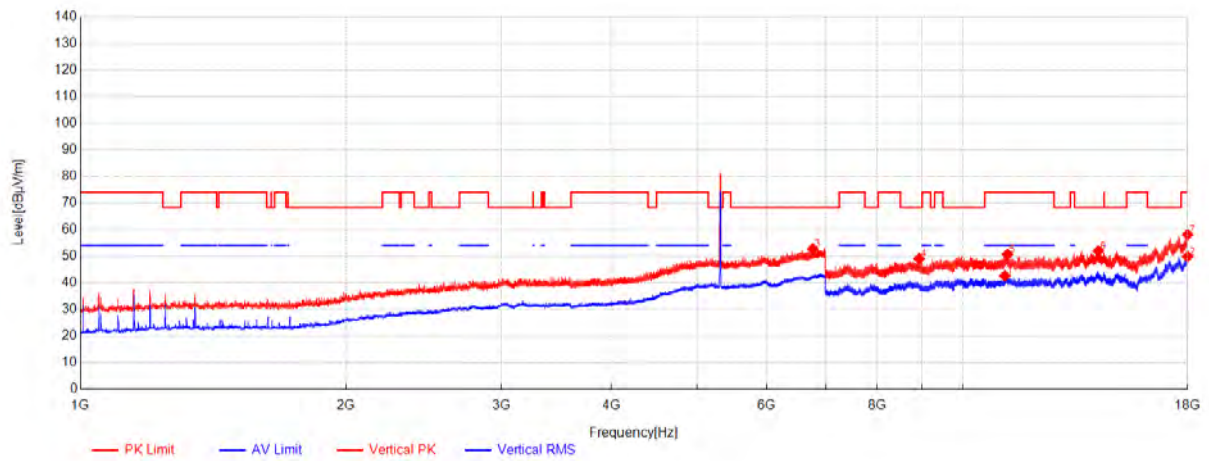
Data List								
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1	11244.5333	47.70	39.59	-44.52	42.77	54.00	11.23	Vertical
2	17985.3333	48.84	43.20	-41.94	50.10	54.00	3.90	Vertical
3	6883.5	38.84	34.97	-21.13	52.68	68.20	15.52	Vertical
4	8678.6	56.98	37.46	-45.93	48.51	68.20	19.69	Vertical
5	11164.2333	55.78	39.36	-44.61	50.53	74.00	23.47	Vertical
6	14984.9	53.55	39.66	-41.44	51.77	68.20	16.43	Vertical
7	17995.9667	56.54	43.20	-41.80	57.94	74.00	16.06	Vertical

11a_TX_CH_64_Horizontal



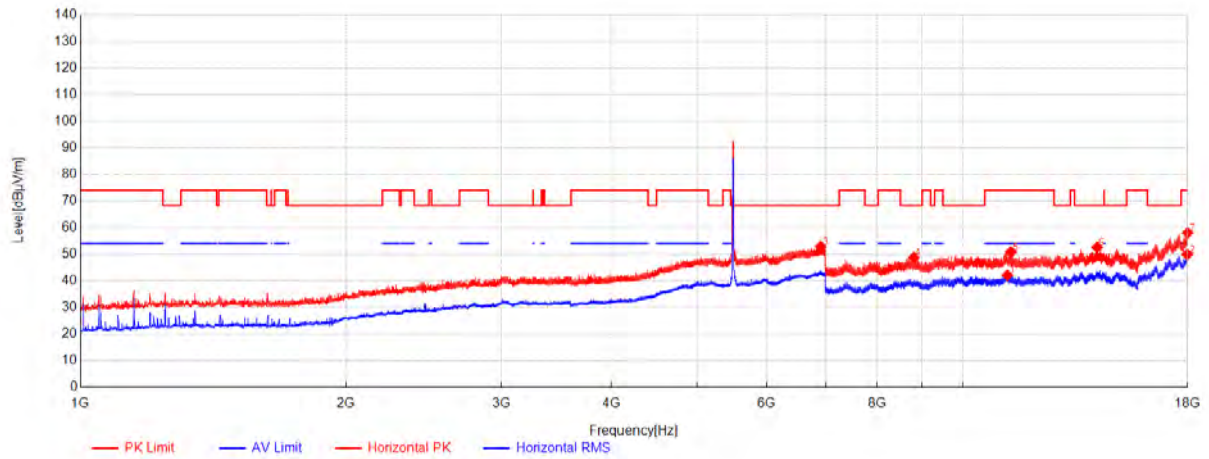
Data List								
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1	8491.9667	49.17	36.88	-46.19	39.86	54.00	14.14	Horizontal
2	11358.2	47.03	39.48	-44.30	42.21	54.00	11.79	Horizontal
3	17977.2667	48.48	43.20	-42.05	49.63	54.00	4.37	Horizontal
4	6946	38.93	35.11	-21.41	52.63	68.20	15.57	Horizontal
5	8373.5333	58.76	36.84	-47.22	48.38	74.00	25.62	Horizontal
6	11224	55.18	39.55	-44.51	50.22	74.00	23.78	Horizontal
7	14295.2	54.28	40.20	-42.58	51.90	68.20	16.30	Horizontal
8	17999.2667	56.12	43.20	-41.76	57.56	74.00	16.44	Horizontal

11a_TX_CH_64_Vertical



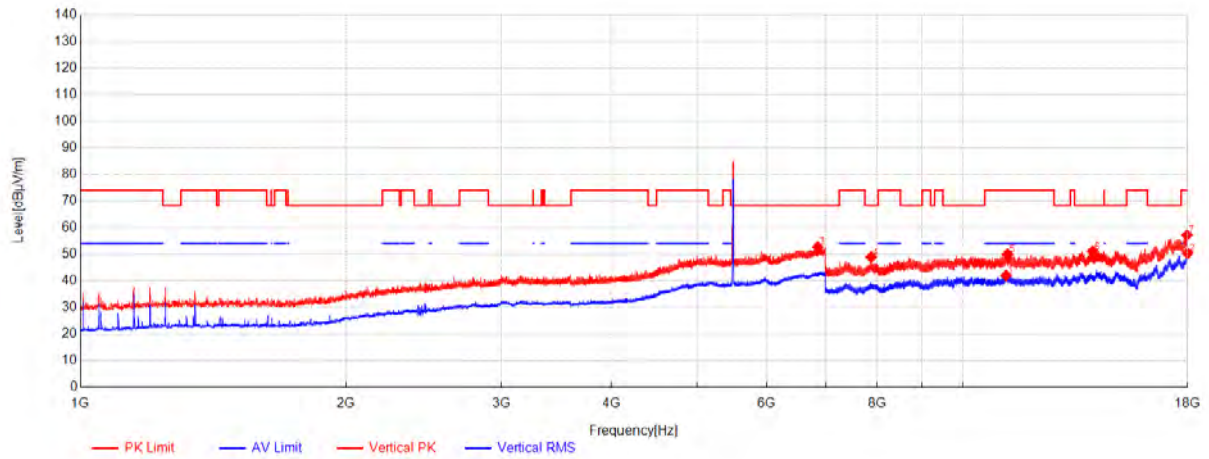
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11168.2667	47.83	39.37	-44.60	42.60	54.00	11.40	Vertical
2	17997.8	48.45	43.20	-41.78	49.87	54.00	4.13	Vertical
3	6766	39.74	34.70	-21.65	52.79	68.20	15.41	Vertical
4	8930.5	57.82	37.76	-46.53	49.05	68.20	19.15	Vertical
5	11246.7333	55.55	39.59	-44.52	50.62	74.00	23.38	Vertical
6	14254.8667	54.14	40.20	-42.37	51.97	68.20	16.23	Vertical
7	17998.1667	56.65	43.20	-41.77	58.08	74.00	15.92	Vertical

11a_TX_CH_100_Horizontal



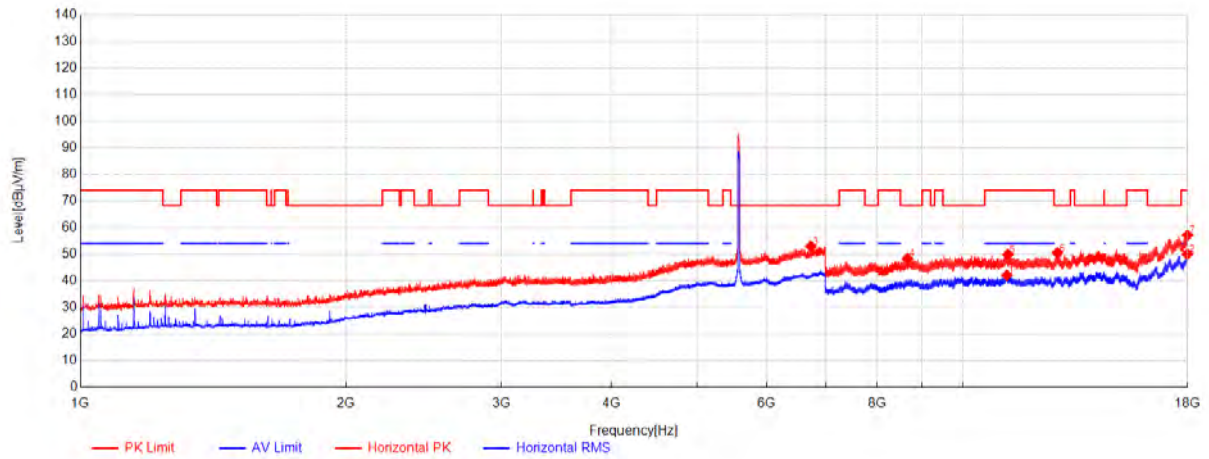
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11242.7	47.05	39.59	-44.52	42.12	54.00	11.88	Horizontal
2	17983.1333	48.62	43.20	-41.97	49.85	54.00	4.15	Horizontal
3	6905	38.80	35.19	-21.11	52.88	68.20	15.32	Horizontal
4	8806.9333	57.68	37.53	-46.48	48.73	68.20	19.47	Horizontal
5	11347.9333	55.63	39.50	-44.34	50.79	74.00	23.21	Horizontal
6	14207.9333	54.17	40.54	-42.12	52.59	68.20	15.61	Horizontal
7	18000	56.55	43.20	-41.75	58.00	74.00	16.00	Horizontal

11a_TX_CH_100_Vertical



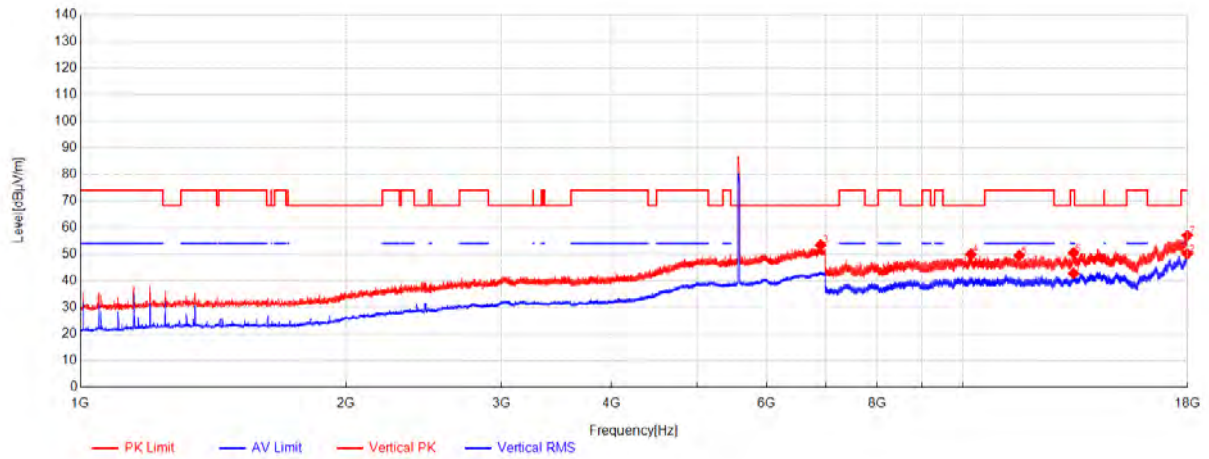
Data List								
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1	11205.3	47.00	39.51	-44.51	42.00	54.00	12.00	Vertical
2	17996.7	48.93	43.20	-41.79	50.34	54.00	3.66	Vertical
3	6853	39.44	34.54	-21.25	52.73	68.20	15.47	Vertical
4	7878.5333	58.86	36.81	-46.73	48.94	68.20	19.26	Vertical
5	11246.7333	54.86	39.59	-44.52	49.93	74.00	24.07	Vertical
6	14045.1333	53.38	40.57	-42.85	51.10	68.20	17.10	Vertical
7	17968.1	56.12	43.20	-42.17	57.15	74.00	16.85	Vertical

11a_TX_CH_116_Horizontal



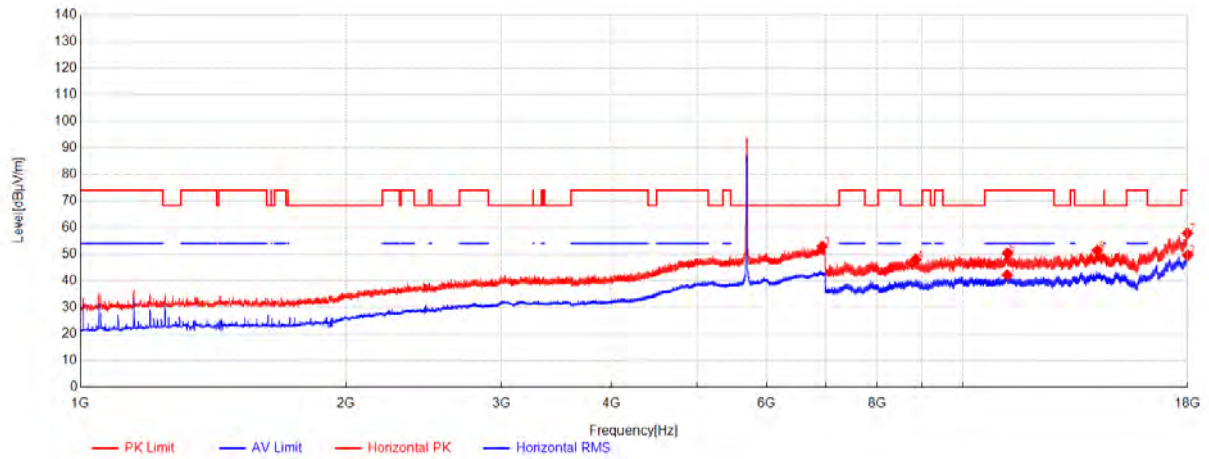
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11229.1333	47.04	39.56	-44.52	42.08	54.00	11.92	Horizontal
2	17990.1	48.69	43.20	-41.88	50.01	54.00	3.99	Horizontal
3	6731	40.15	34.64	-21.85	52.94	68.20	15.26	Horizontal
4	8662.8333	56.93	37.43	-46.01	48.35	68.20	19.85	Horizontal
5	11260.6667	54.81	39.56	-44.52	49.85	74.00	24.15	Horizontal
6	12812.7667	54.07	39.45	-43.07	50.45	68.20	17.75	Horizontal
7	17995.6	55.76	43.20	-41.81	57.15	74.00	16.85	Horizontal

11a_TX_CH_116_Vertical



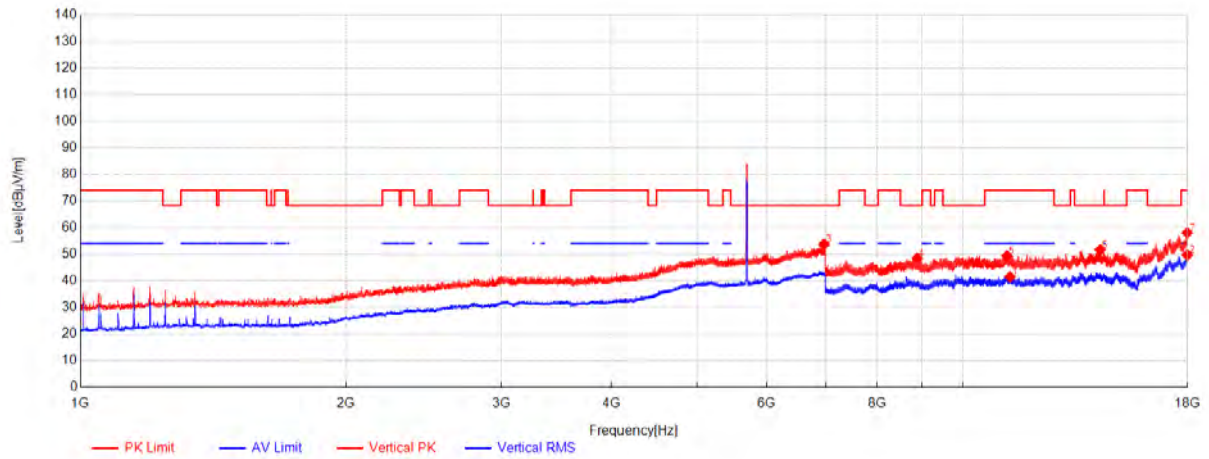
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	13362.7667	45.95	40.45	-43.64	42.76	54.00	11.24	Vertical
2	17980.2	48.95	43.20	-42.01	50.14	54.00	3.86	Vertical
3	6905	39.38	35.19	-21.11	53.46	68.20	14.74	Vertical
4	10219.3333	55.46	39.22	-44.75	49.93	68.20	18.27	Vertical
5	11595.4333	54.06	39.58	-44.14	49.50	74.00	24.50	Vertical
6	13363.5	53.63	40.45	-43.64	50.44	74.00	23.56	Vertical
7	17982.7667	55.82	43.20	-41.98	57.04	74.00	16.96	Vertical

11a_TX_CH_140_Horizontal



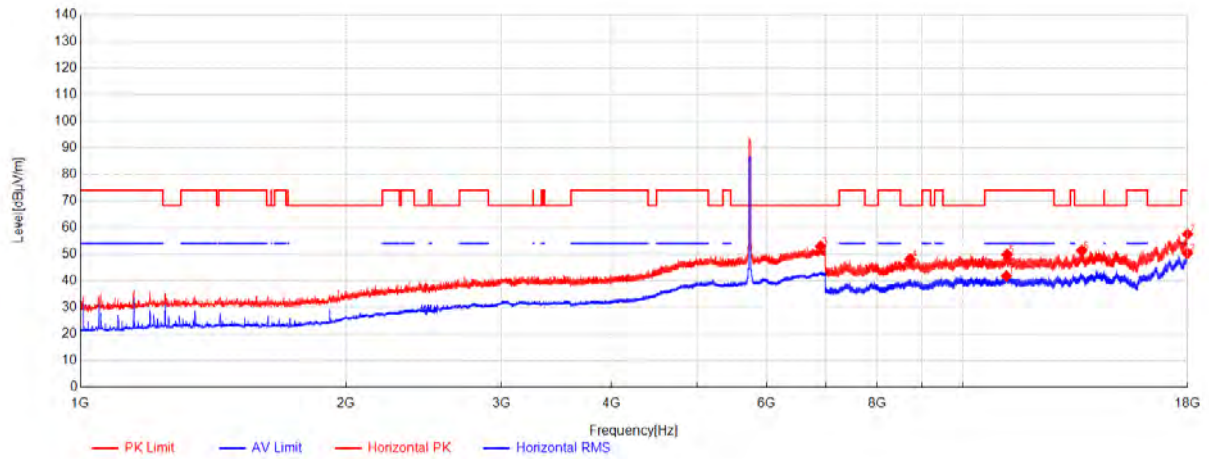
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11239.4	47.09	39.58	-44.52	42.15	54.00	11.85	Horizontal
2	17998.1667	48.17	43.20	-41.77	49.60	54.00	4.40	Horizontal
3	6935	39.08	35.13	-21.33	52.88	68.20	15.32	Horizontal
4	8847.2667	56.74	37.69	-46.41	48.02	68.20	20.18	Horizontal
5	11249.3	55.28	39.60	-44.52	50.36	74.00	23.64	Horizontal
6	14214.9	52.98	40.48	-42.16	51.30	68.20	16.90	Horizontal
7	17986.0667	56.59	43.20	-41.93	57.86	74.00	16.14	Horizontal

11a_TX_CH_140_Vertical



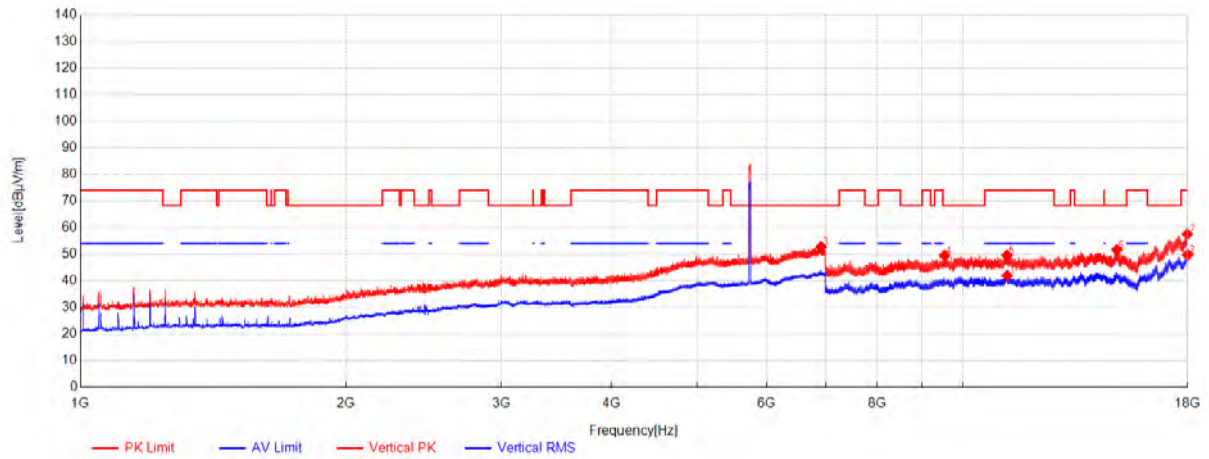
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11321.1667	46.52	39.44	-44.45	41.51	54.00	12.49	Vertical
2	17984.6	48.45	43.20	-41.95	49.70	54.00	4.30	Vertical
3	6966.5	40.07	35.23	-21.56	53.74	68.20	14.46	Vertical
4	8884.6667	57.10	37.70	-46.35	48.45	68.20	19.75	Vertical
5	11231.3333	54.29	39.56	-44.52	49.33	74.00	24.67	Vertical
6	14324.9	54.16	40.25	-42.81	51.60	68.20	16.60	Vertical
7	17978.7333	56.83	43.20	-42.03	58.00	74.00	16.00	Vertical

11a_TX_CH_149_Horizontal



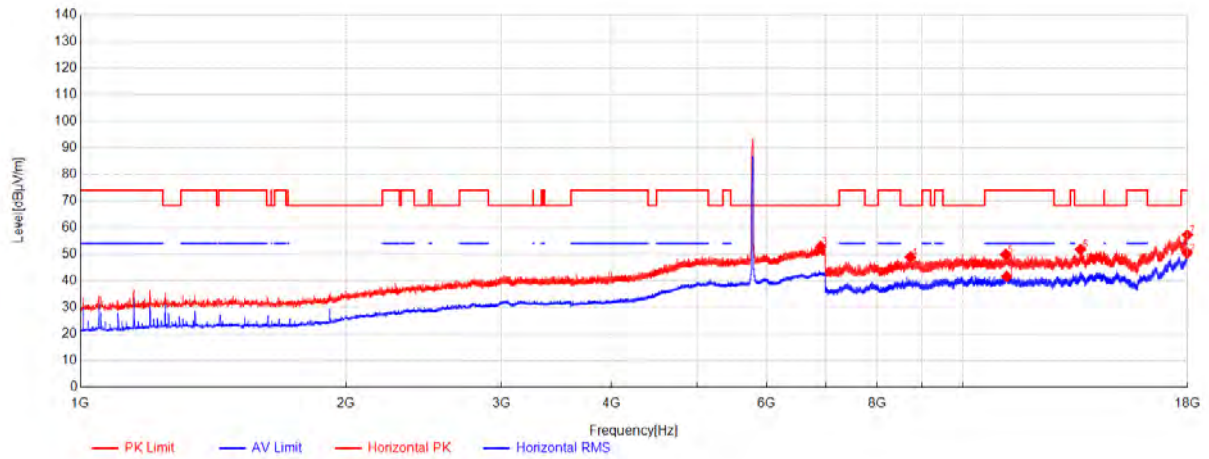
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11213.3667	46.77	39.53	-44.51	41.79	54.00	12.21	Horizontal
2	17986.4333	49.07	43.20	-41.93	50.34	54.00	3.66	Horizontal
3	6903	38.89	35.19	-21.09	52.99	68.20	15.21	Horizontal
4	8719.6667	56.58	37.54	-45.95	48.17	68.20	20.03	Horizontal
5	11233.9	54.75	39.57	-44.52	49.80	74.00	24.20	Horizontal
6	13653.1667	53.61	40.51	-42.79	51.33	68.20	16.87	Horizontal
7	17997.0667	56.15	43.20	-41.79	57.56	74.00	16.44	Horizontal

11a_TX_CH_149_Vertical



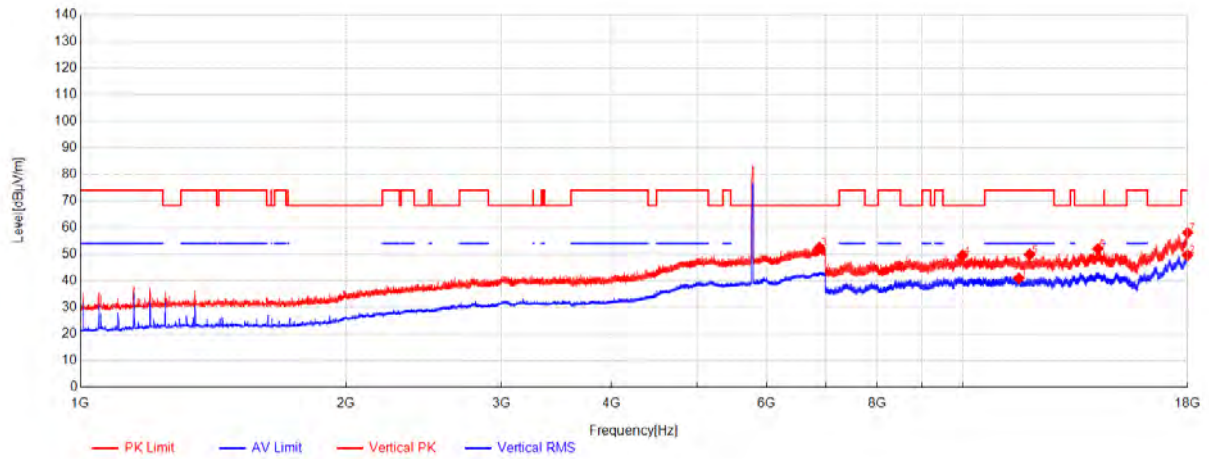
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11237.2	46.88	39.57	-44.52	41.93	54.00	12.07	Vertical
2	17999.6333	48.27	43.20	-41.75	49.72	54.00	4.28	Vertical
3	6911.5	38.75	35.18	-21.15	52.78	68.20	15.42	Vertical
4	9542.4667	56.07	38.64	-45.26	49.45	68.20	18.75	Vertical
5	11235	54.52	39.57	-44.52	49.57	74.00	24.43	Vertical
6	14963.6333	53.75	39.75	-41.83	51.67	68.20	16.53	Vertical
7	17980.5667	56.34	43.20	-42.00	57.54	74.00	16.46	Vertical

11a_TX_CH_157_Horizontal



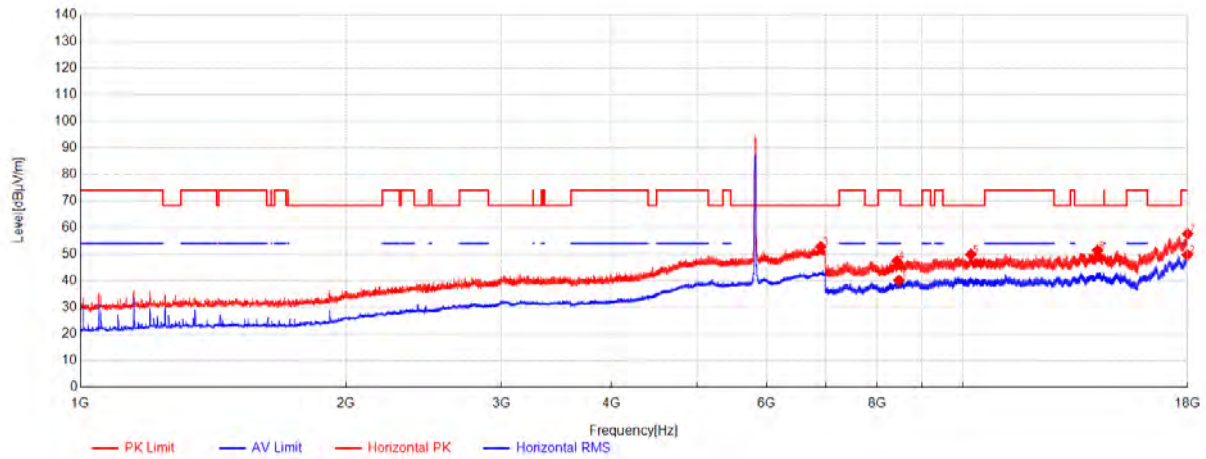
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11224.3667	46.56	39.55	-44.51	41.60	54.00	12.40	Horizontal
2	17973.9667	49.30	43.20	-42.09	50.41	54.00	3.59	Horizontal
3	6904	38.78	35.19	-21.10	52.87	68.20	15.33	Horizontal
4	8727.3667	57.34	37.55	-46.00	48.89	68.20	19.31	Horizontal
5	11197.2333	54.85	39.49	-44.52	49.82	74.00	24.18	Horizontal
6	13607.7	54.07	40.42	-42.70	51.79	68.20	16.41	Horizontal
7	17987.1667	55.97	43.20	-41.92	57.25	74.00	16.75	Horizontal

11a_TX_CH_157_Vertical



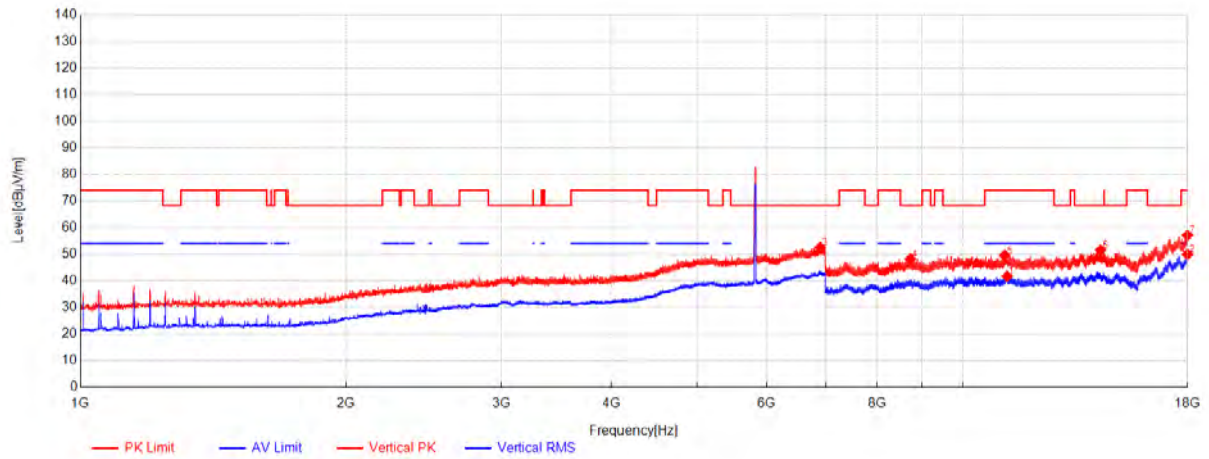
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11585.5333	45.63	39.54	-44.20	40.97	54.00	13.03	Vertical
2	17995.9667	48.24	43.20	-41.80	49.64	54.00	4.36	Vertical
3	6882.5	38.71	34.96	-21.14	52.53	68.20	15.67	Vertical
4	9998.6	55.69	38.71	-44.85	49.55	68.20	18.65	Vertical
5	11917.3667	54.65	39.13	-43.93	49.85	74.00	24.15	Vertical
6	14238	53.99	40.30	-42.28	52.01	68.20	16.19	Vertical
7	18000	56.59	43.20	-41.75	58.04	74.00	15.96	Vertical

11a_TX_CH_165_Horizontal



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	8471.8	49.73	36.84	-46.38	40.19	54.00	13.81	Horizontal
2	17983.1333	48.52	43.20	-41.97	49.75	54.00	4.25	Horizontal
3	6906.5	38.72	35.19	-21.12	52.79	68.20	15.41	Horizontal
4	8423.7667	57.29	36.96	-46.84	47.41	74.00	26.59	Horizontal
5	10219.7	55.39	39.22	-44.76	49.85	68.20	18.35	Horizontal
6	14224.4333	53.16	40.40	-42.21	51.35	68.20	16.85	Horizontal
7	17996.7	56.23	43.20	-41.79	57.64	74.00	16.36	Horizontal

11a_TX_CH_165_Vertical



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	11235.3667	46.62	39.57	-44.52	41.67	54.00	12.33	Vertical
2	17992.6667	48.59	43.20	-41.85	49.94	54.00	4.06	Vertical
3	6895	38.47	35.13	-21.09	52.51	68.20	15.69	Vertical
4	8728.1	56.69	37.56	-46.01	48.24	68.20	19.96	Vertical
5	11166.4333	54.73	39.37	-44.60	49.50	74.00	24.50	Vertical
6	14340.6667	54.18	40.28	-42.94	51.52	68.20	16.68	Vertical
7	17988.6333	55.80	43.20	-41.90	57.10	74.00	16.90	Vertical

7.4 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)

Test Method: ANSI C63.10 (2020) Section 6.10.5

Measurement Distance: 3m

Limit:

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

*(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(4) For transmitters operating in the 5.725-5.85 GHz band:

(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, 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.

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C

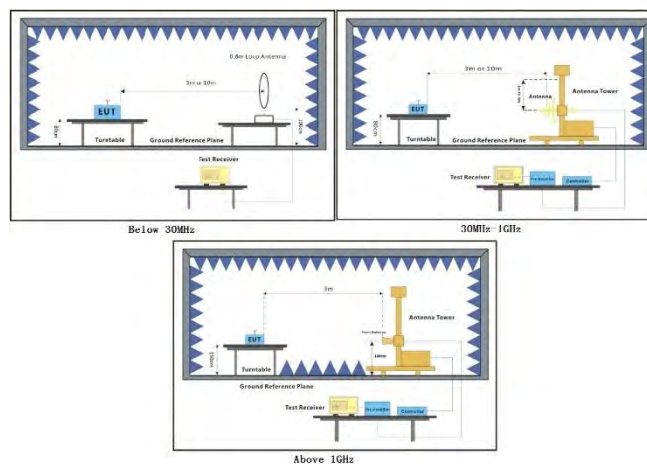
Humidity: 47.2 % RH

Atmospheric Pressure: 1010 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11ac 20, Only the data of worst case is recorded in the report.
Final test	02	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11ac 20, Only the data of worst case is recorded in the report.
Final test	03	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11ac 20, Only the data of worst case is recorded in the report.
Final test	04	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11ac 20, Only the data of worst case is recorded in the report.

7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

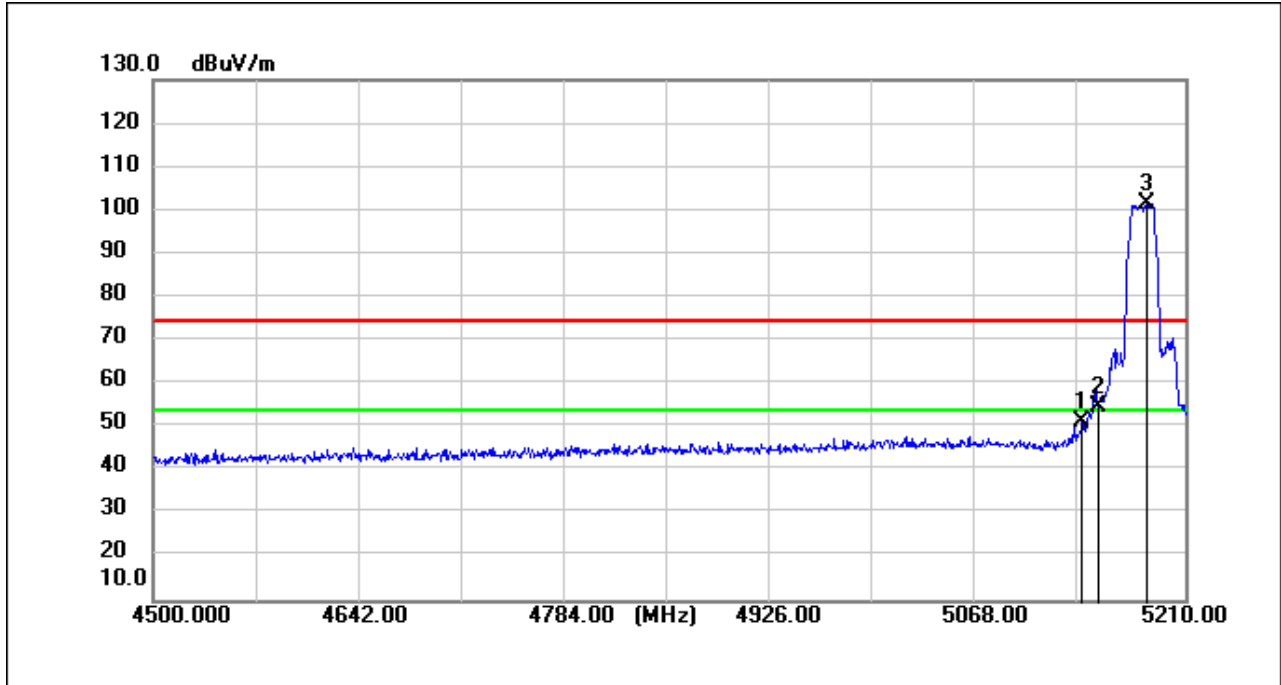
- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark 1: $\text{Level} = \text{Read Level} + \text{Cable Loss} + \text{Antenna Factor} - \text{Preamp Factor}$

Remark 2: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.

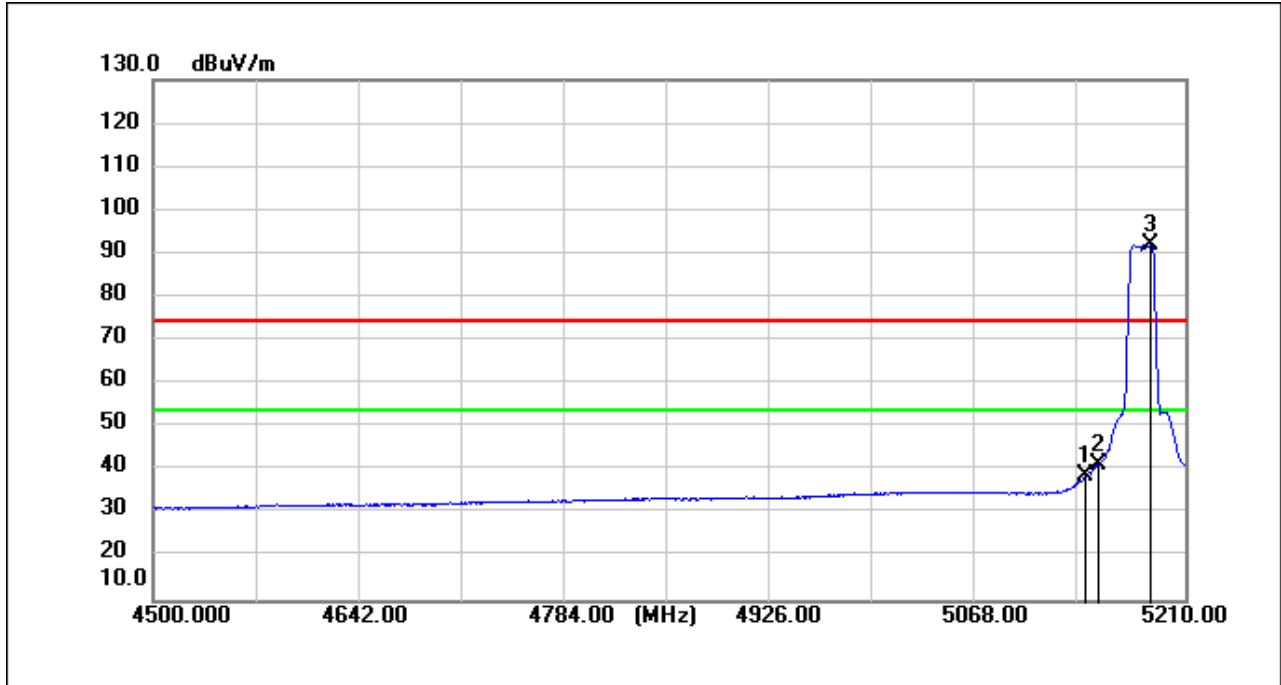
Remark 3: For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98%) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.

11a_TX_CH_36_Horizontal_Peak



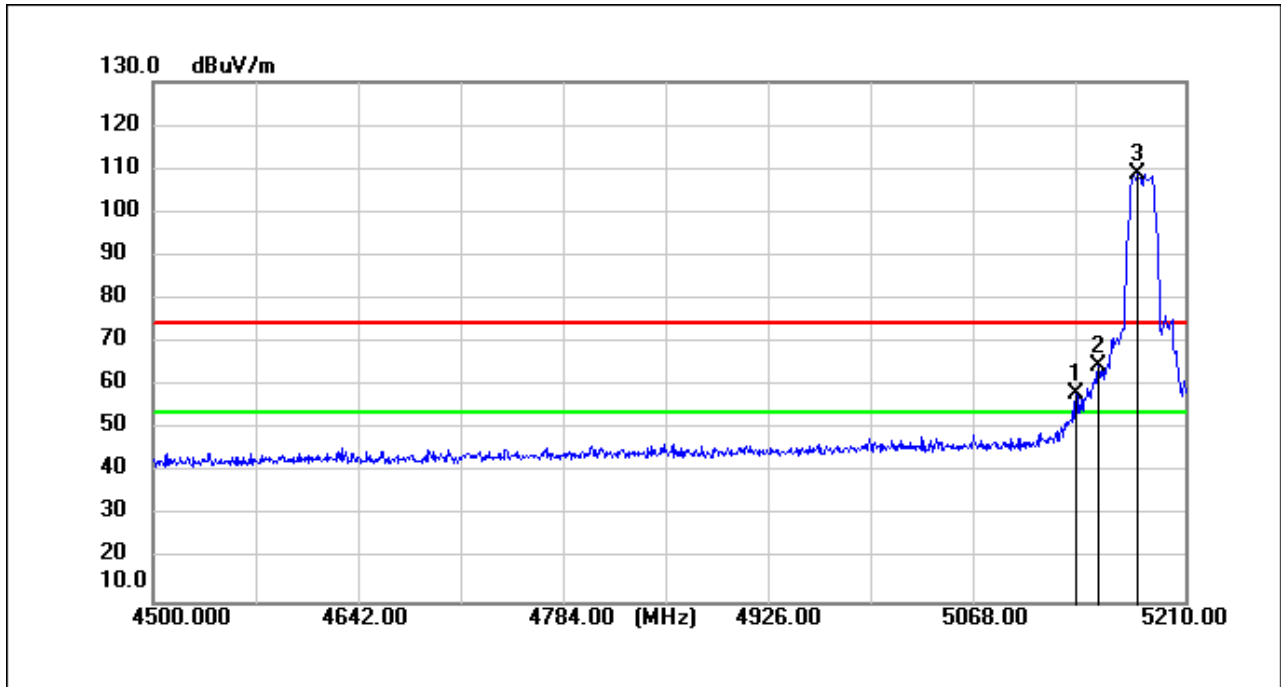
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5139.000	44.65	6.74	51.39	74.00	-22.61	peak
2	5150.000	47.90	6.75	54.65	74.00	-19.35	peak
3	5183.730	94.90	6.73	101.63	74.00	27.63	peak

11a_TX_CH_36_Horizontal_Average



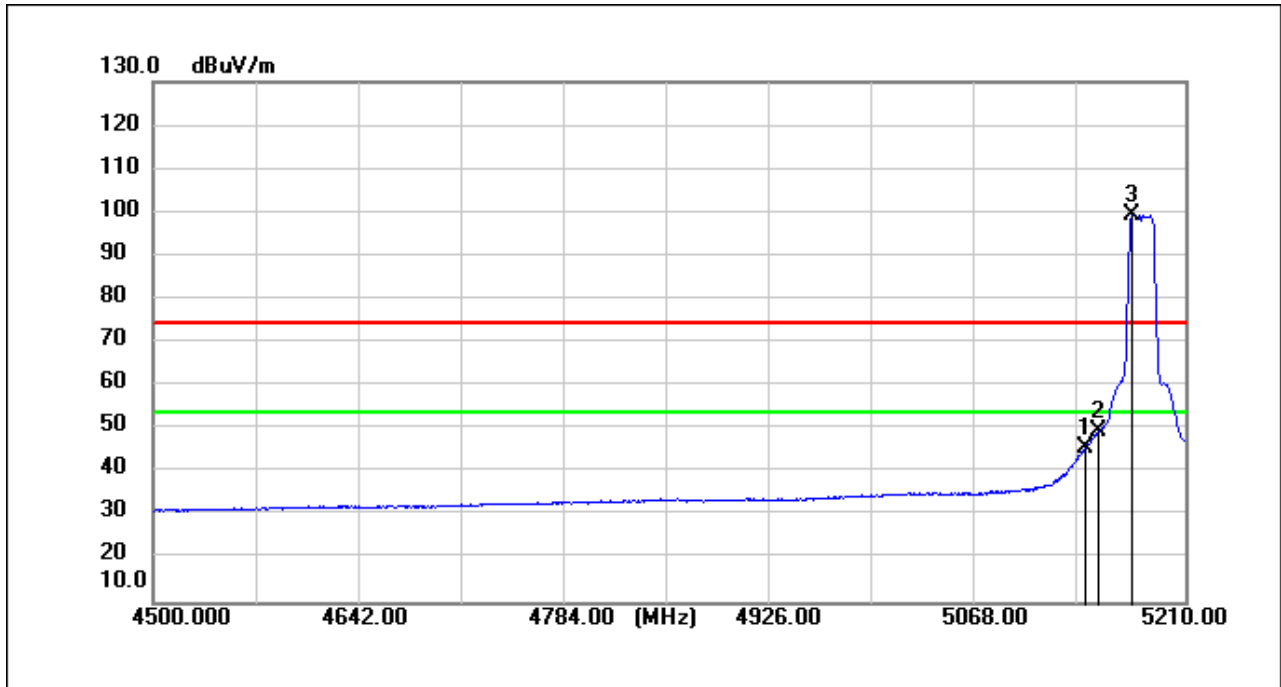
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5141.840	32.16	6.75	38.91	54.00	-15.09	AVG
2	5150.000	34.77	6.75	41.52	54.00	-12.48	AVG
3	5185.860	85.20	6.73	91.93	54.00	37.93	AVG

11a_TX_CH_36_Vertical_Peak



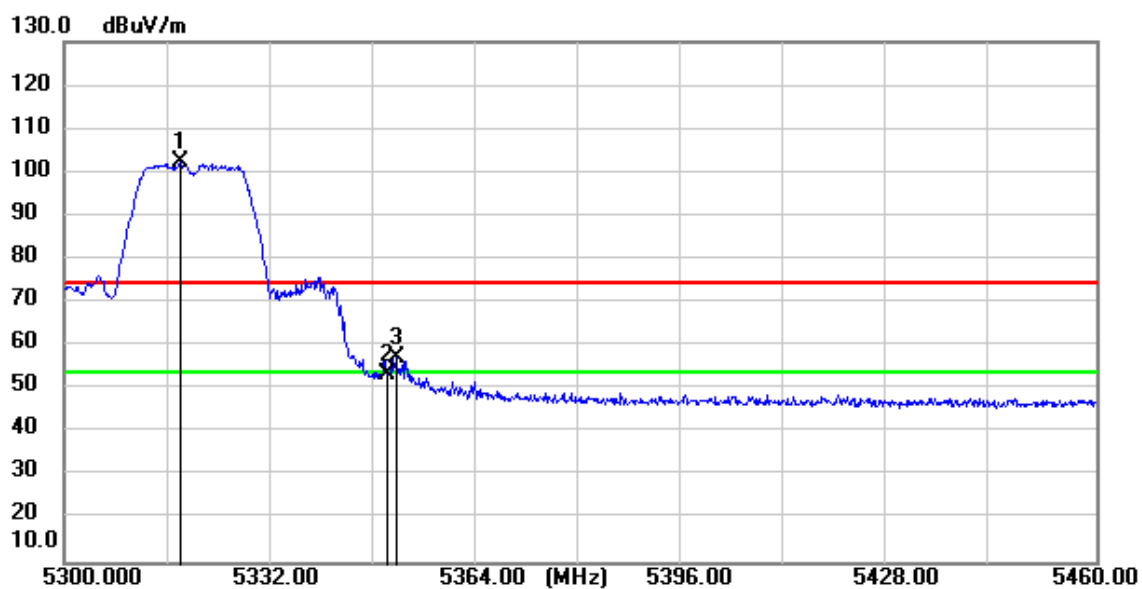
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5134.740	51.31	6.74	58.05	74.00	-15.95	peak
2	5150.000	57.70	6.75	64.45	74.00	-9.55	peak
3	5177.340	102.15	6.74	108.89	74.00	34.89	peak

11a_TX_CH_36_Vertical_Average



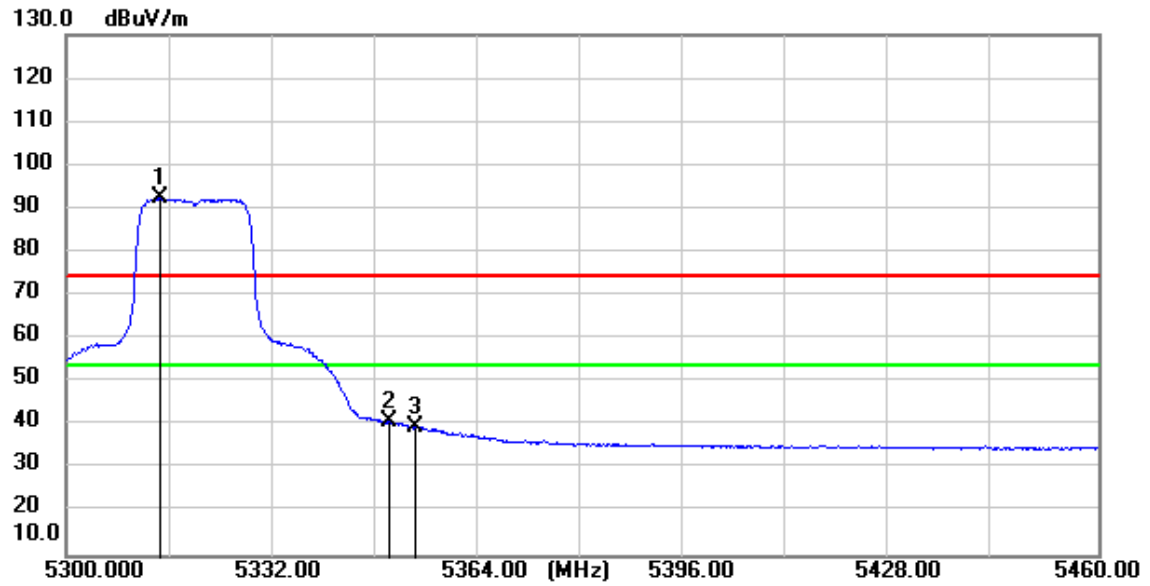
No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5141.130	38.95	6.75	45.70	54.00	-8.30	AVG
2	5150.000	42.80	6.75	49.55	54.00	-4.45	AVG
3	5173.790	92.81	6.73	99.54	54.00	45.54	AVG

11a_TX_CH_64_Horizontal_Peak

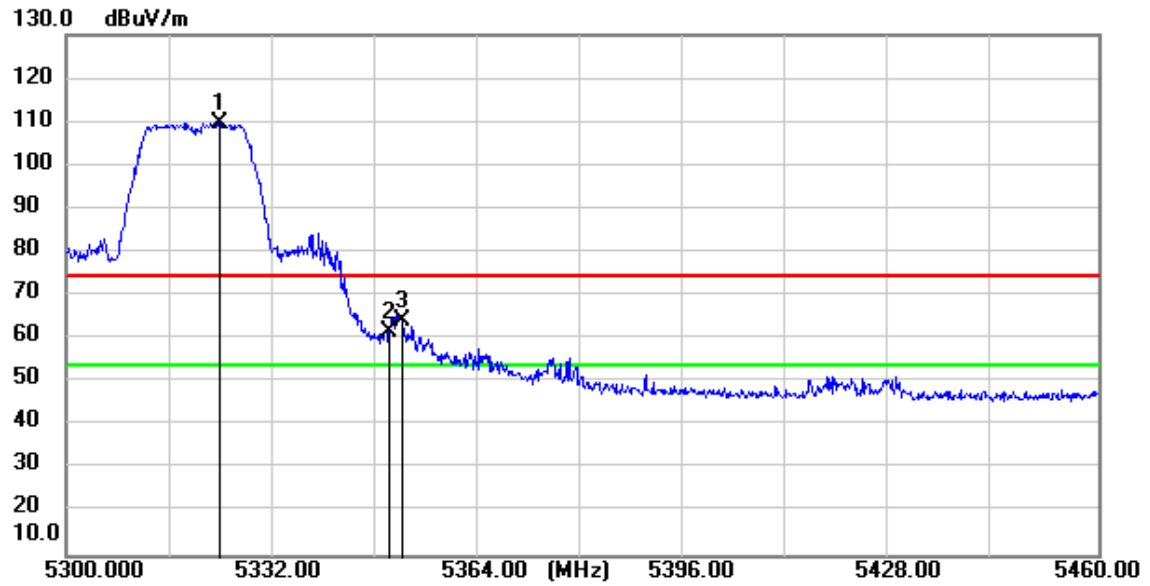


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5317.920	95.49	6.71	102.20	74.00	28.20	peak
2	5350.000	46.95	6.69	53.64	74.00	-20.36	peak
3	5351.520	50.53	6.70	57.23	74.00	-16.77	peak

11a_TX_CH_64_Horizontal_Average

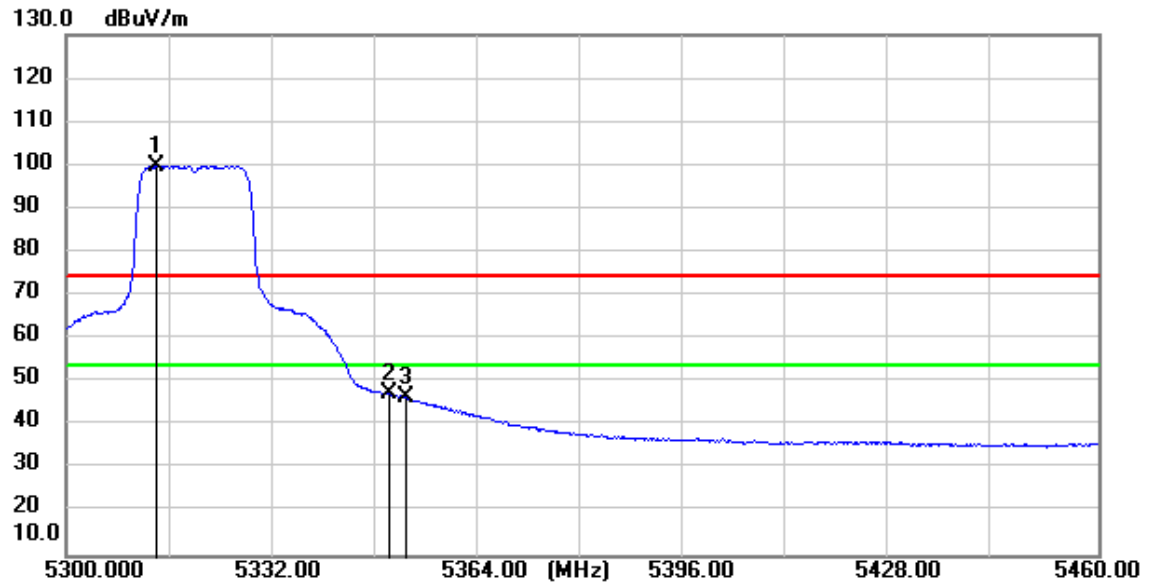


11a_TX_CH_64_Vertical_Peak

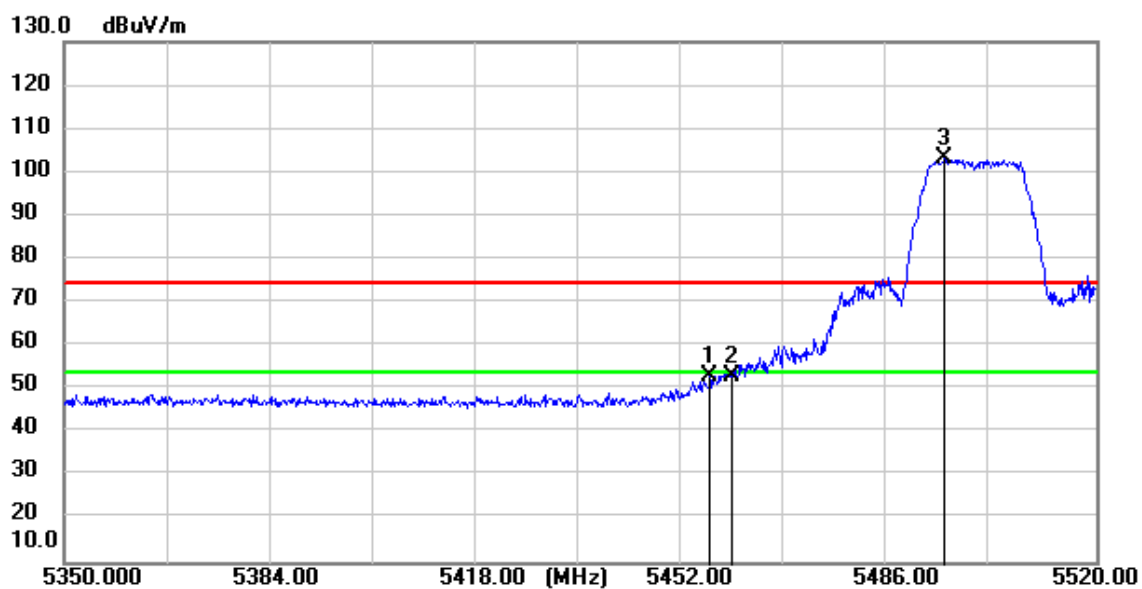


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5323.840	103.02	6.71	109.73	74.00	35.73	peak
2	5350.000	54.78	6.69	61.47	74.00	-12.53	peak
3	5352.160	57.30	6.70	64.00	74.00	-10.00	peak

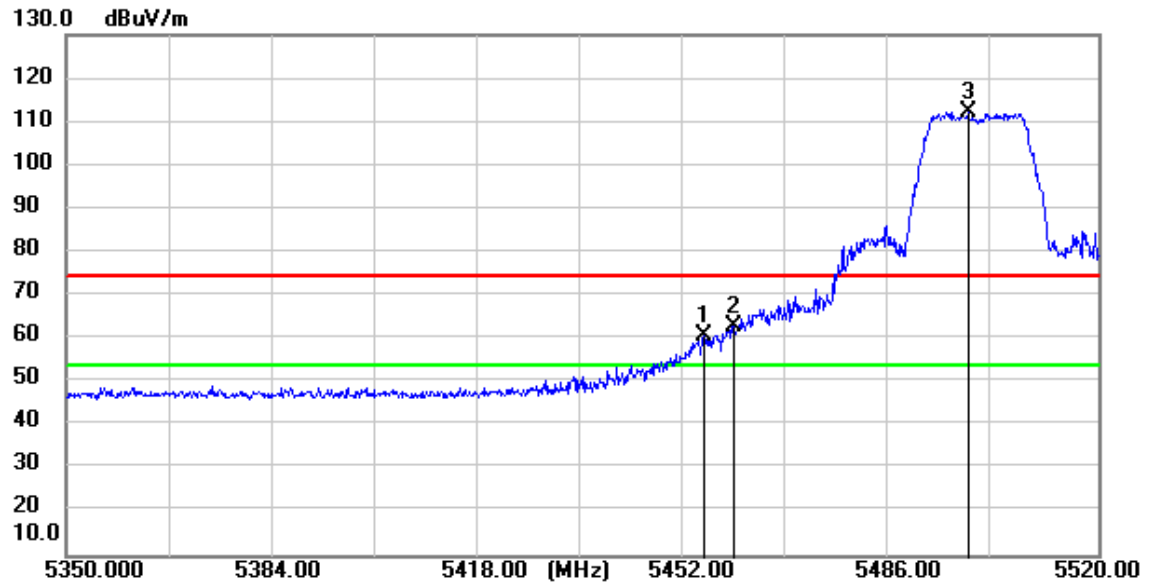
11a_TX_CH_64_Verical_Average



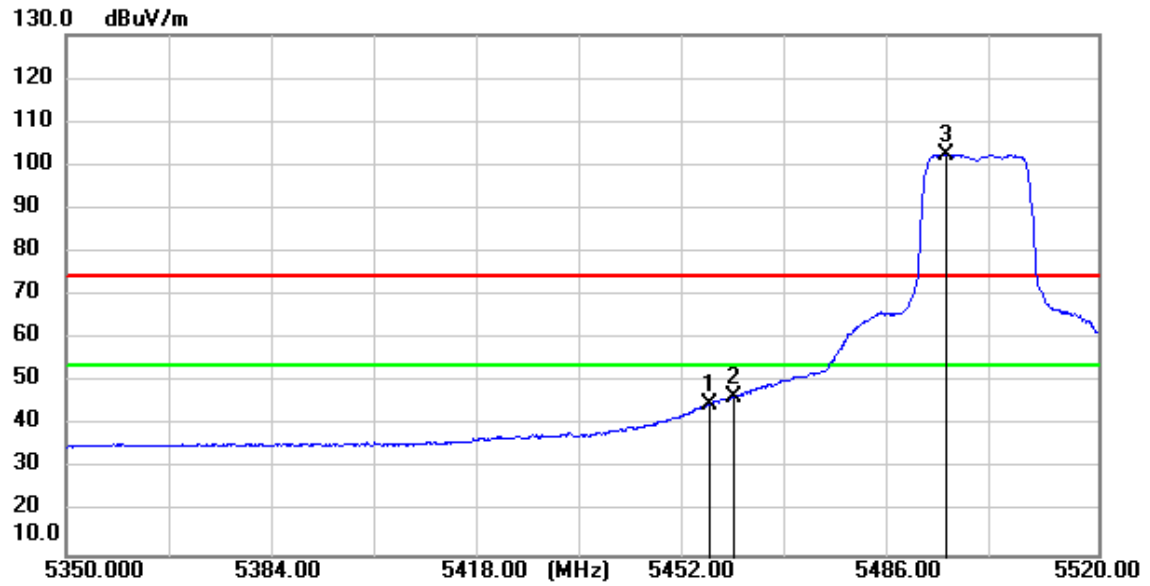
11a_TX_CH_100_Horizontal_Peak



11a_TX_CH_100_Vertical_Peak

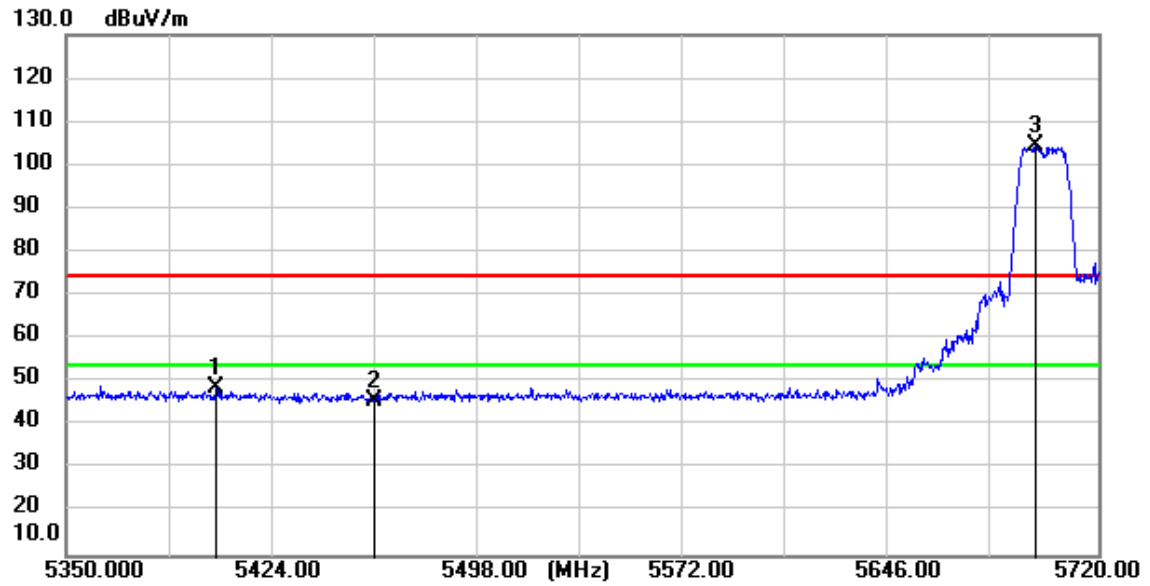


11a_TX_CH_100_Vertical_Average

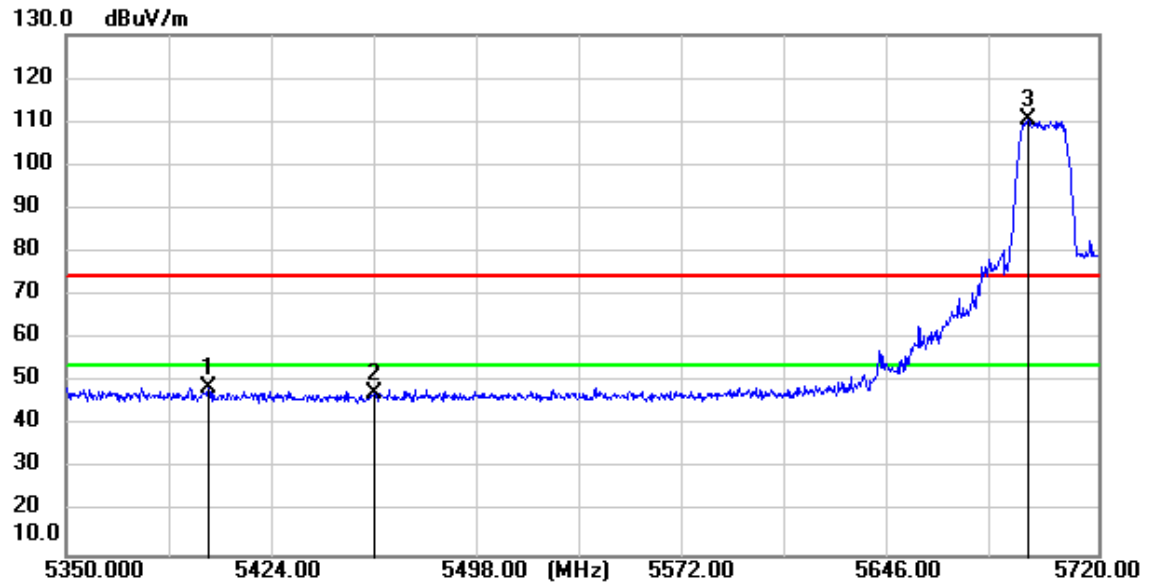


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5456.080	38.40	6.68	45.08	54.00	-8.92	AVG
2	5460.000	39.90	6.68	46.58	54.00	-7.42	AVG
3	5494.840	95.80	6.67	102.47	54.00	48.47	AVG

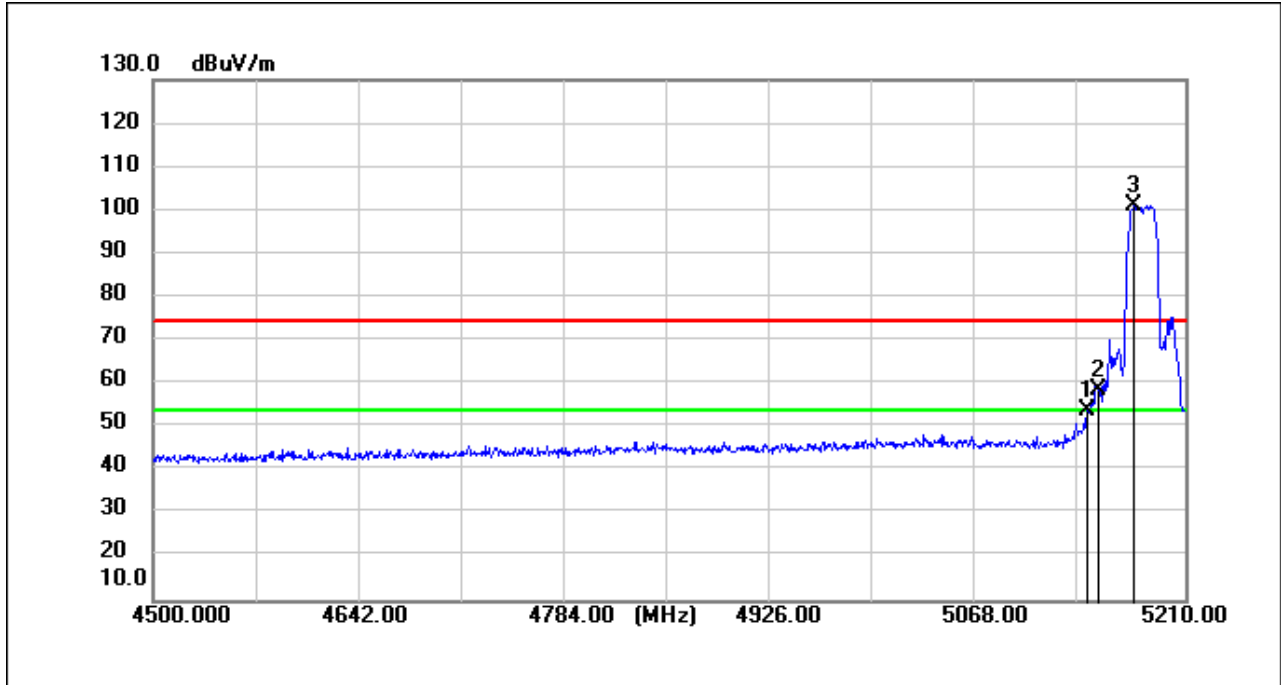
11a_TX_CH_140_Horizontal_Peak



11a_TX_CH_140_Vertical_Peak

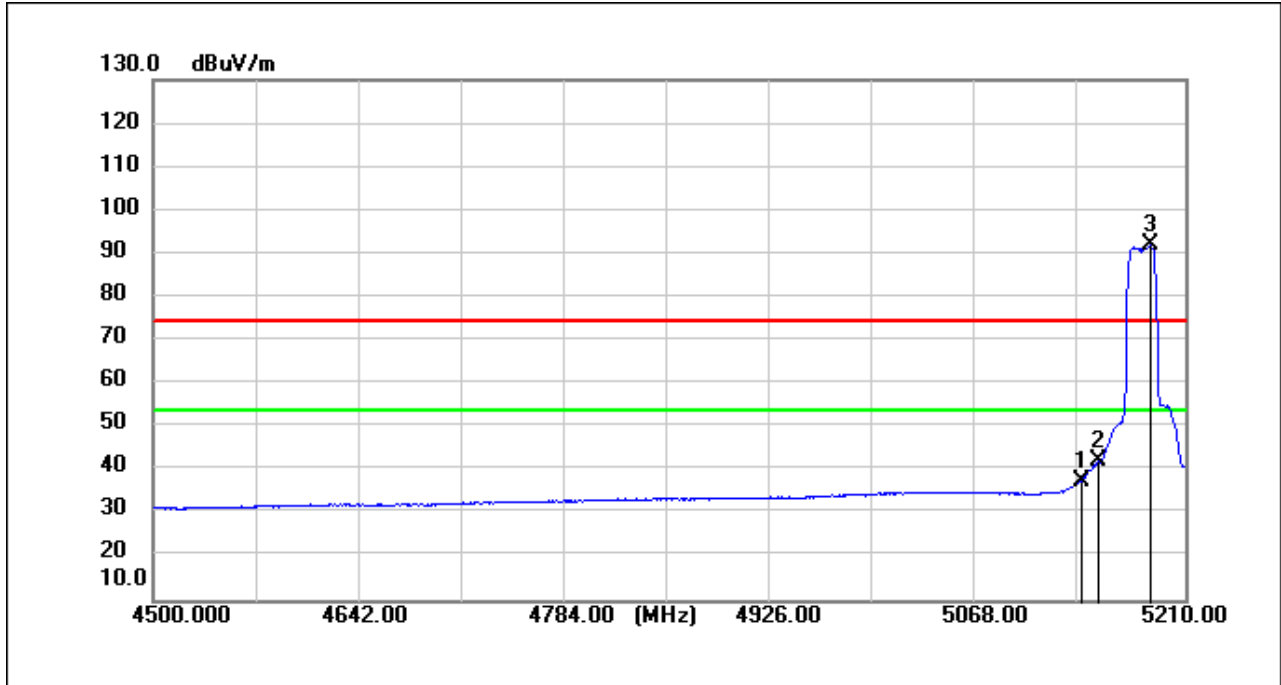


11ac(VHT20)_TX_CH_36_Horizontal_Peak



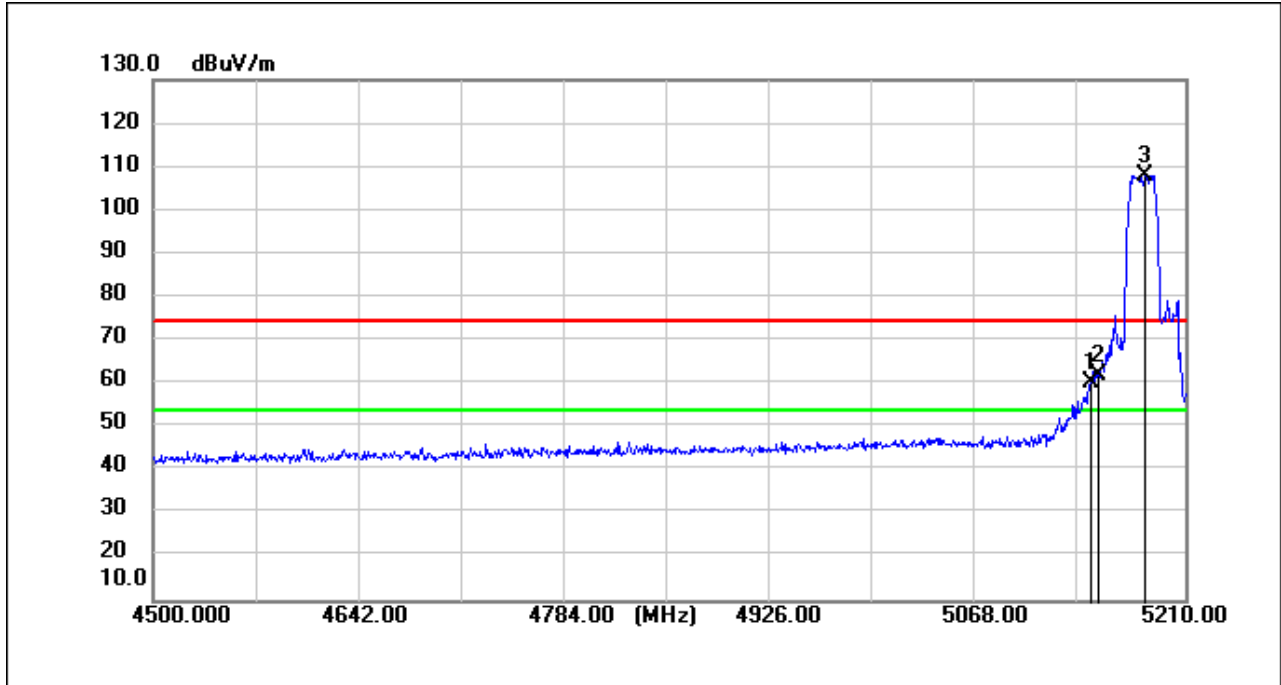
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5142.550	46.99	6.74	53.73	74.00	-20.27	peak
2	5150.000	52.08	6.75	58.83	74.00	-15.17	peak
3	5175.210	94.38	6.73	101.11	74.00	27.11	peak

11ac(VHT20)_TX_CH_36_Horizontal_Average



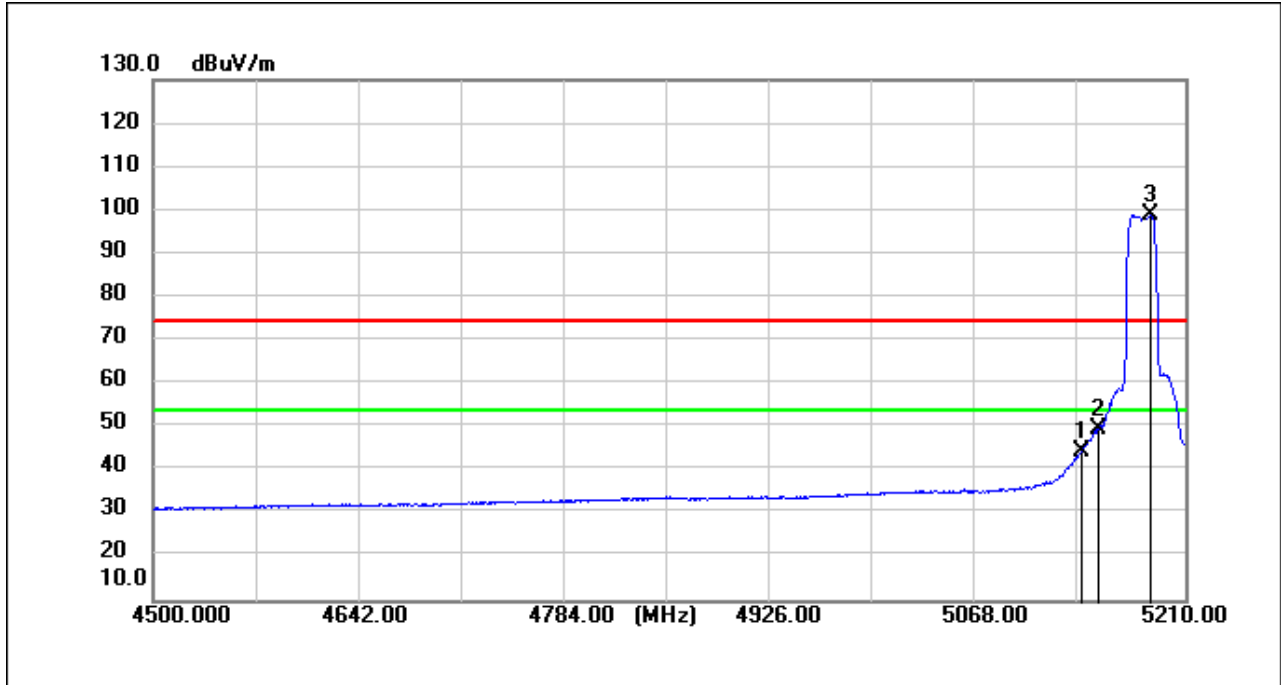
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5138.290	30.88	6.74	37.62	54.00	-16.38	AVG
2	5150.000	35.48	6.75	42.23	54.00	-11.77	AVG
3	5186.570	85.30	6.74	92.04	54.00	38.04	AVG

11ac(VHT20)_TX_CH_36_Vertical_Peak



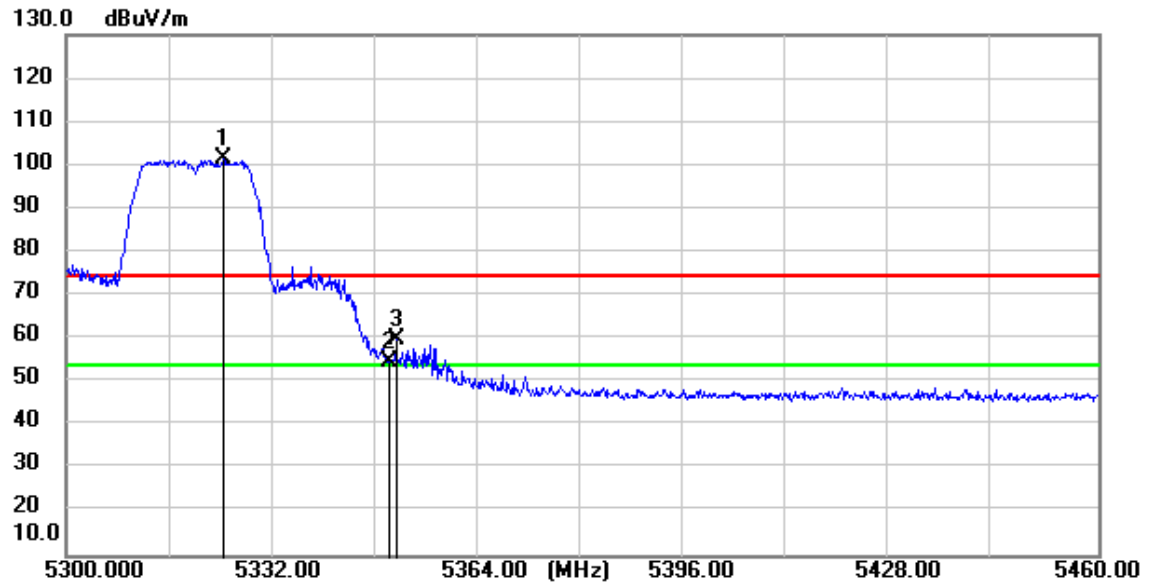
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5144.680	53.47	6.74	60.21	74.00	-13.79	peak
2	5150.000	55.53	6.75	62.28	74.00	-11.72	peak
3	5183.020	101.26	6.73	107.99	74.00	33.99	peak

11ac(VHT20)_TX_CH_36_Vertical_Average



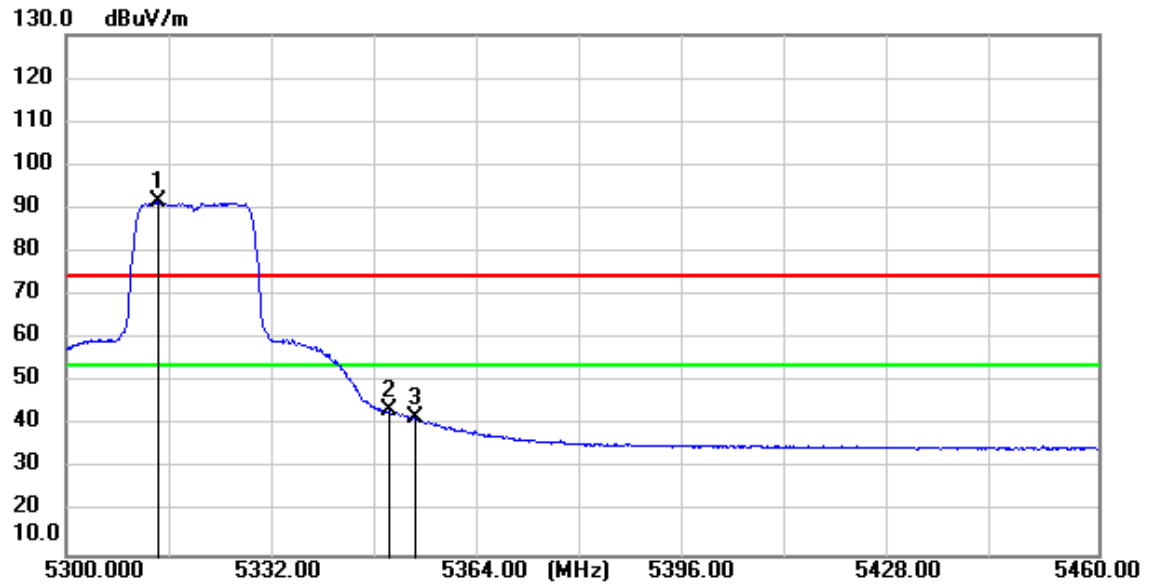
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5139.000	37.95	6.74	44.69	54.00	-9.31	AVG
2	5150.000	42.85	6.75	49.60	54.00	-4.40	AVG
3	5185.860	92.24	6.73	98.97	54.00	44.97	AVG

11ac(VHT20)_TX_CH_64_Horizontal_Peak



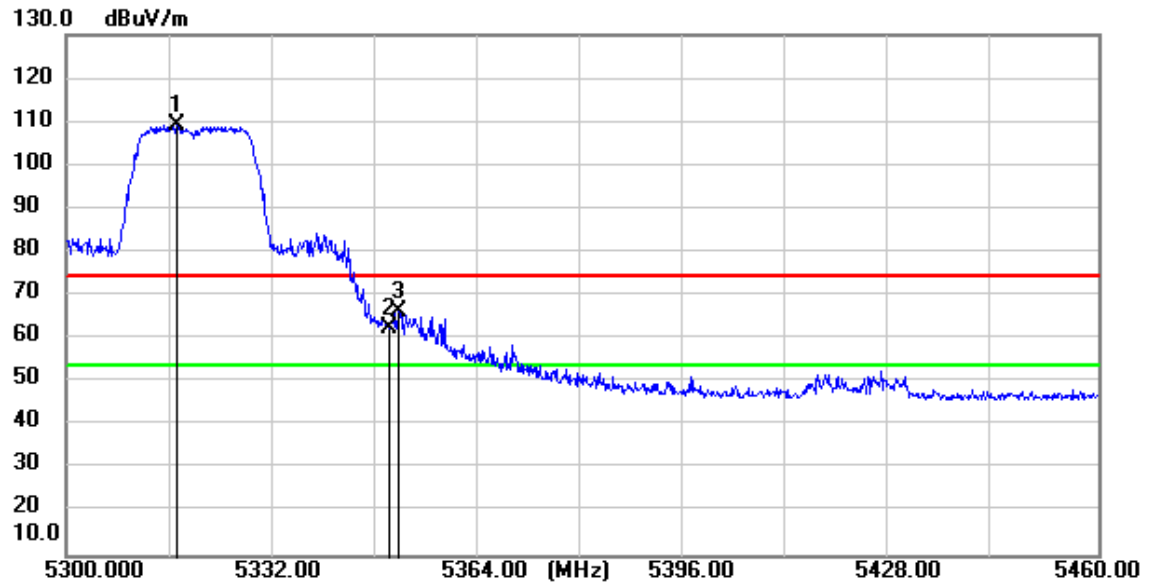
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5324.480	94.72	6.71	101.43	74.00	27.43	peak
2	5350.000	48.26	6.69	54.95	74.00	-19.05	peak
3	5351.200	53.41	6.70	60.11	74.00	-13.89	peak

11ac(VHT20)_TX_CH_64_Horizontal_Average



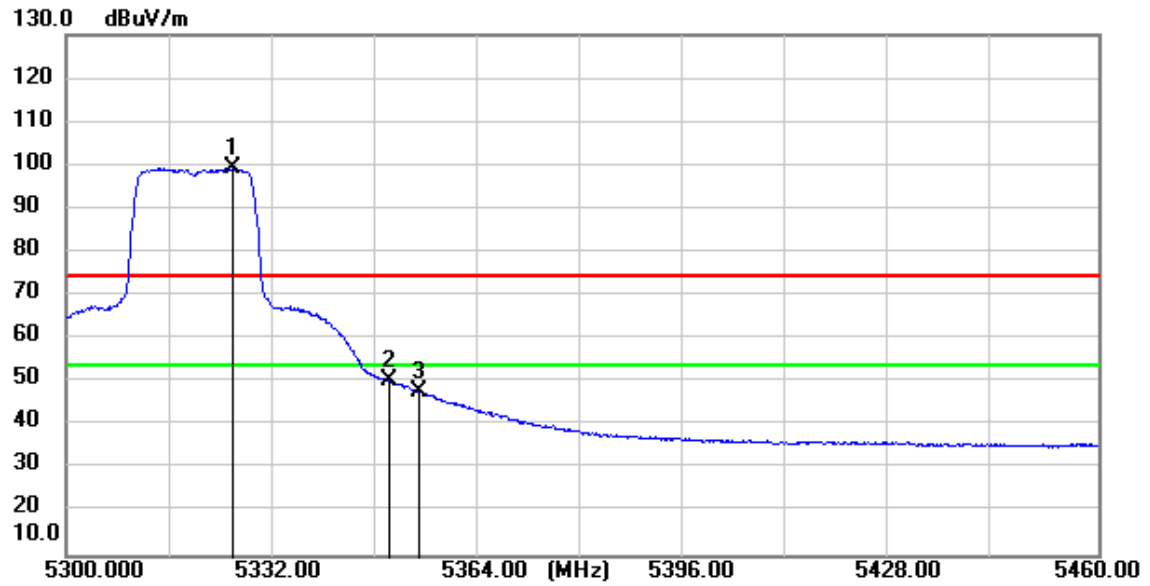
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5314.240	84.96	6.71	91.67	54.00	37.67	AVG
2	5350.000	36.80	6.69	43.49	54.00	-10.51	AVG
3	5354.080	35.10	6.70	41.80	54.00	-12.20	AVG

11ac(VHT20)_TX_CH_64_Vertical_Peak

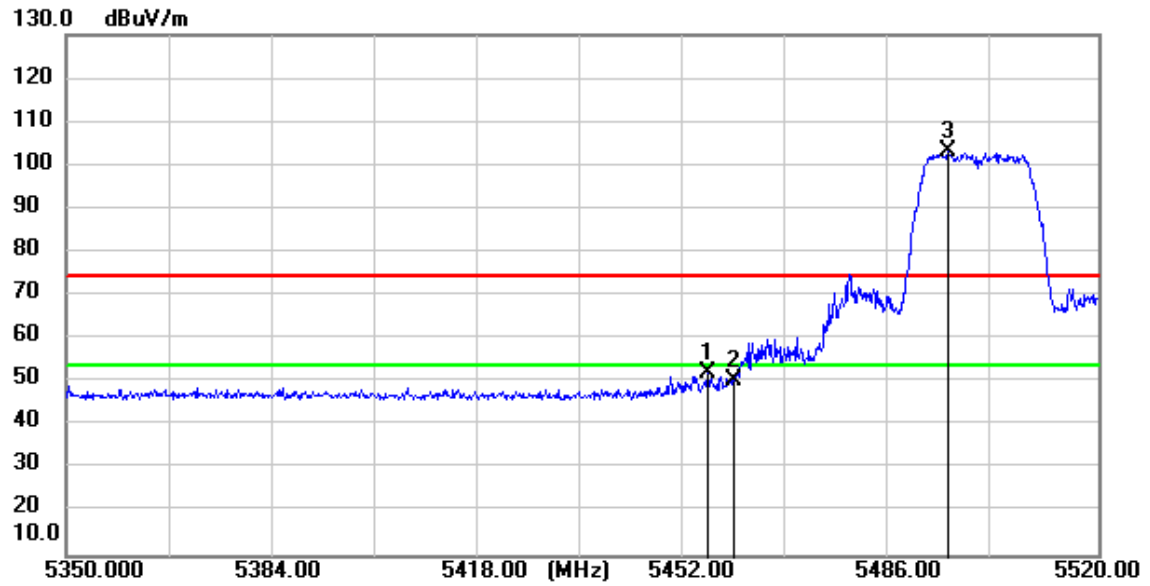


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5317.120	102.52	6.71	109.23	74.00	35.23	peak
2	5350.000	55.74	6.69	62.43	74.00	-11.57	peak
3	5351.520	59.69	6.70	66.39	74.00	-7.61	peak

11ac(VHT20)_TX_CH_64_Vertical_Average

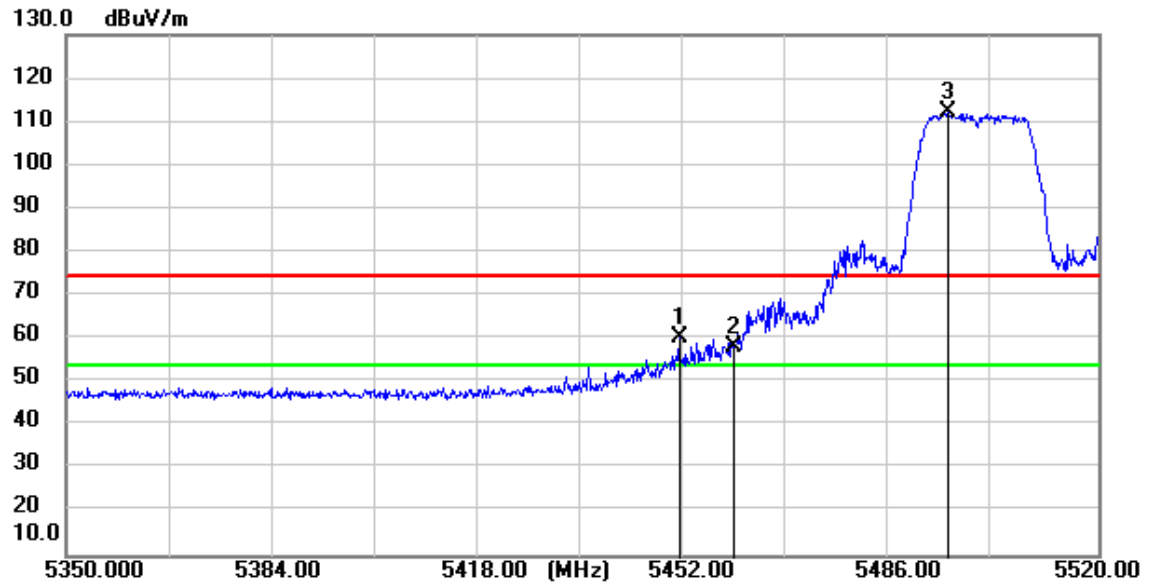


11ac(VHT20)_TX_CH_100_Horizontal_Peak



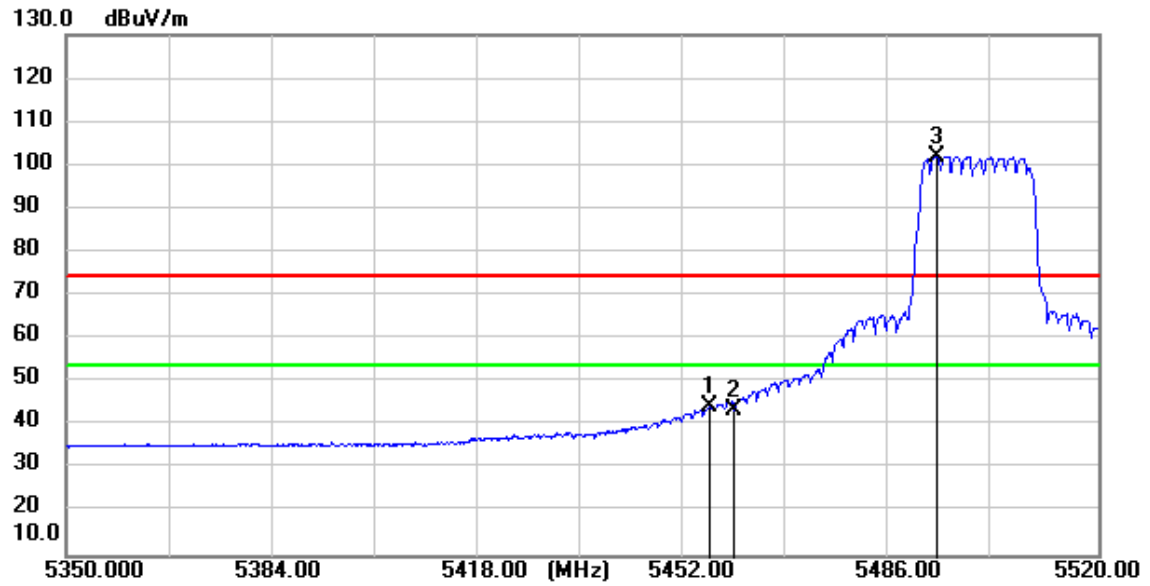
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5455.740	45.56	6.68	52.24	74.00	-21.76	peak
2	5460.000	43.84	6.68	50.52	74.00	-23.48	peak
3	5495.350	96.37	6.67	103.04	74.00	29.04	peak

11ac(VHT20)_TX_CH_100_Vertical_Peak



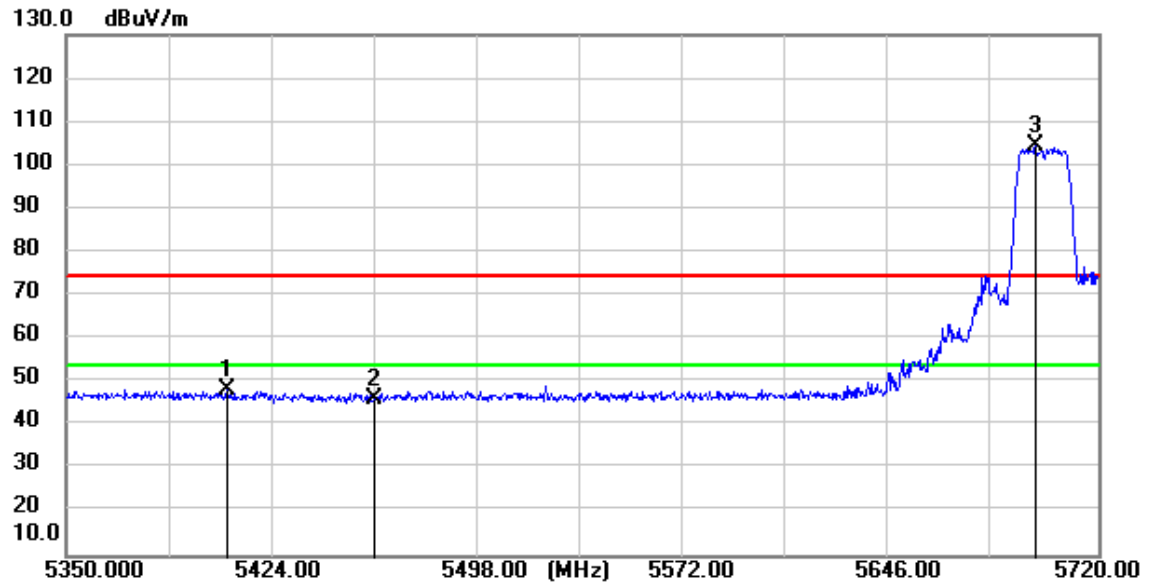
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5450.980	53.78	6.68	60.46	74.00	-13.54	peak
2	5460.000	51.54	6.68	58.22	74.00	-15.78	peak
3	5495.180	105.35	6.67	112.02	74.00	38.02	peak

11ac(VHT20)_TX_CH_100_Vertical_Average

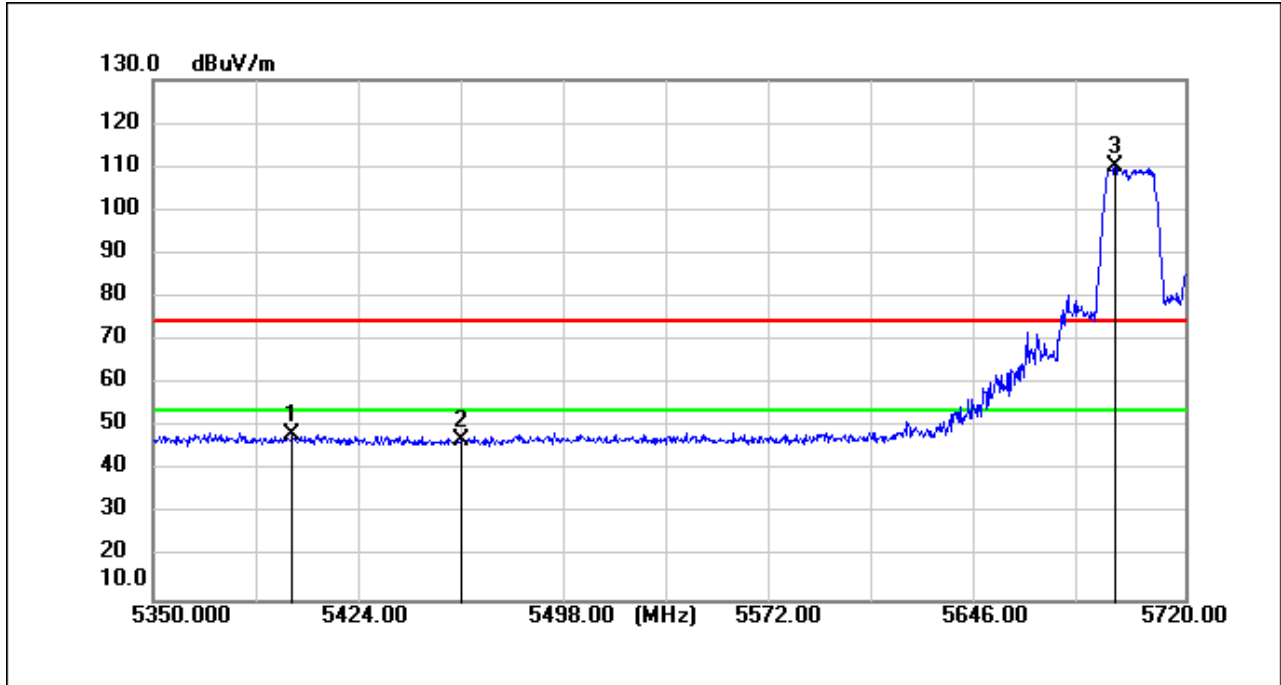


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5455.910	37.72	6.68	44.40	54.00	-9.60	AVG
2	5460.000	37.10	6.68	43.78	54.00	-10.22	AVG
3	5493.480	95.45	6.67	102.12	54.00	48.12	AVG

11ac(VHT20)_TX_CH_140_Horizontal_Peak

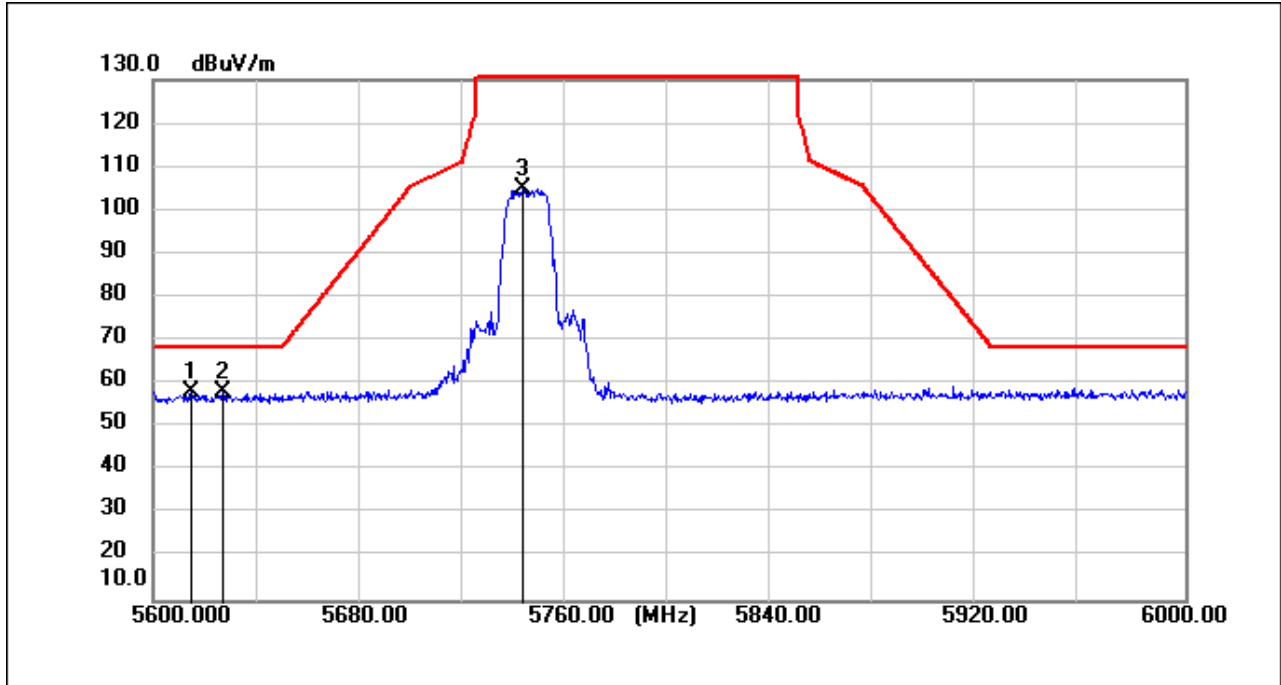


11ac(VHT20)_TX_CH_140_Vertical_Peak



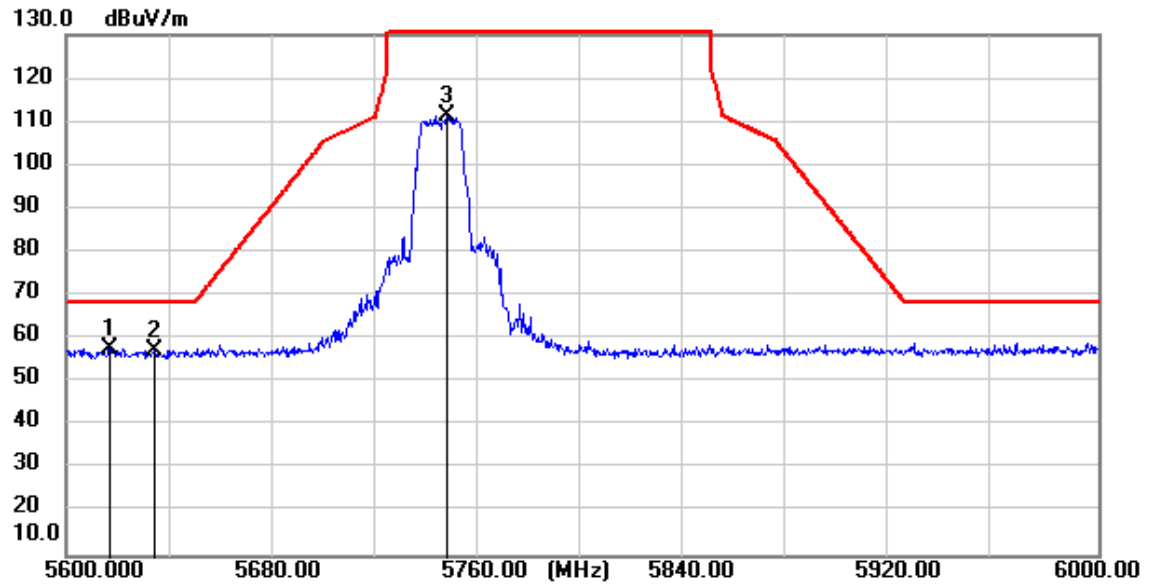
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5399.950	41.54	6.69	48.23	74.00	-25.77	peak
2	5460.000	40.35	6.68	47.03	74.00	-26.97	peak
3	5695.210	103.30	6.95	110.25	74.00	36.25	peak

11a_TX_CH_149_Horizontal_Peak



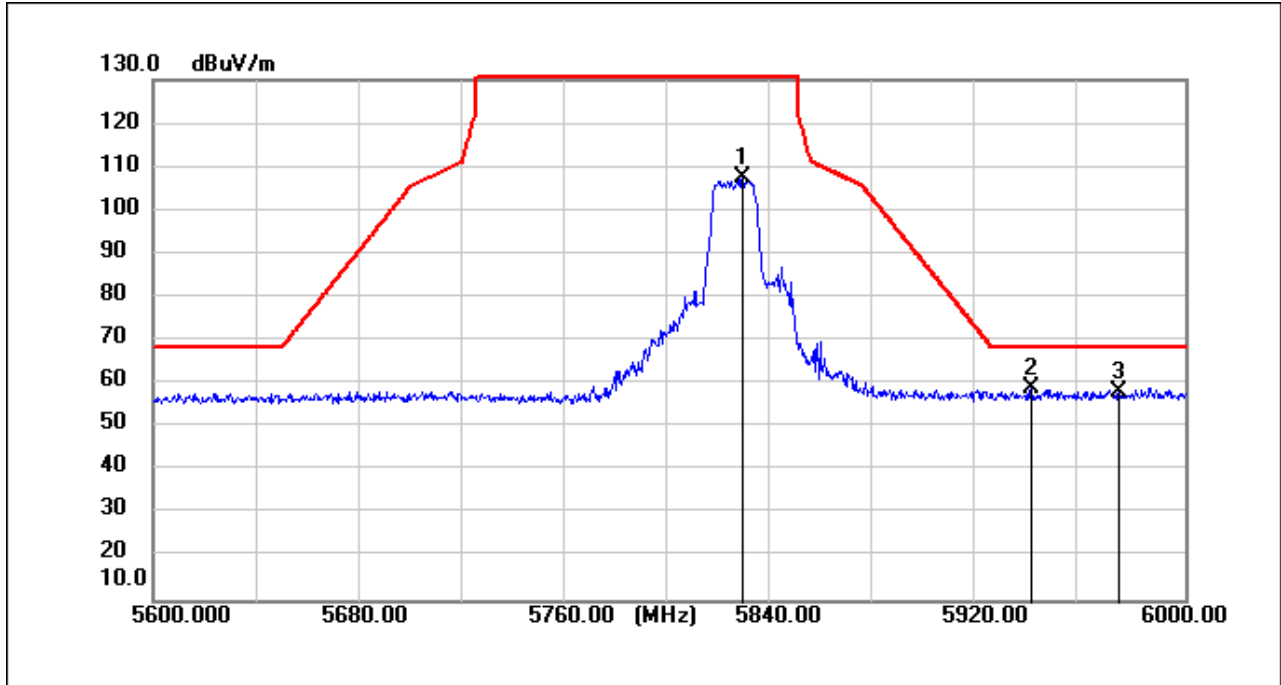
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5614.800	51.55	6.83	58.38	68.20	-9.82	peak
2	5626.800	51.35	6.85	58.20	68.20	-10.00	peak
3	5743.200	97.77	7.01	104.78	135.00	-30.22	peak

11a_TX_CH_149_Vertical_Peak



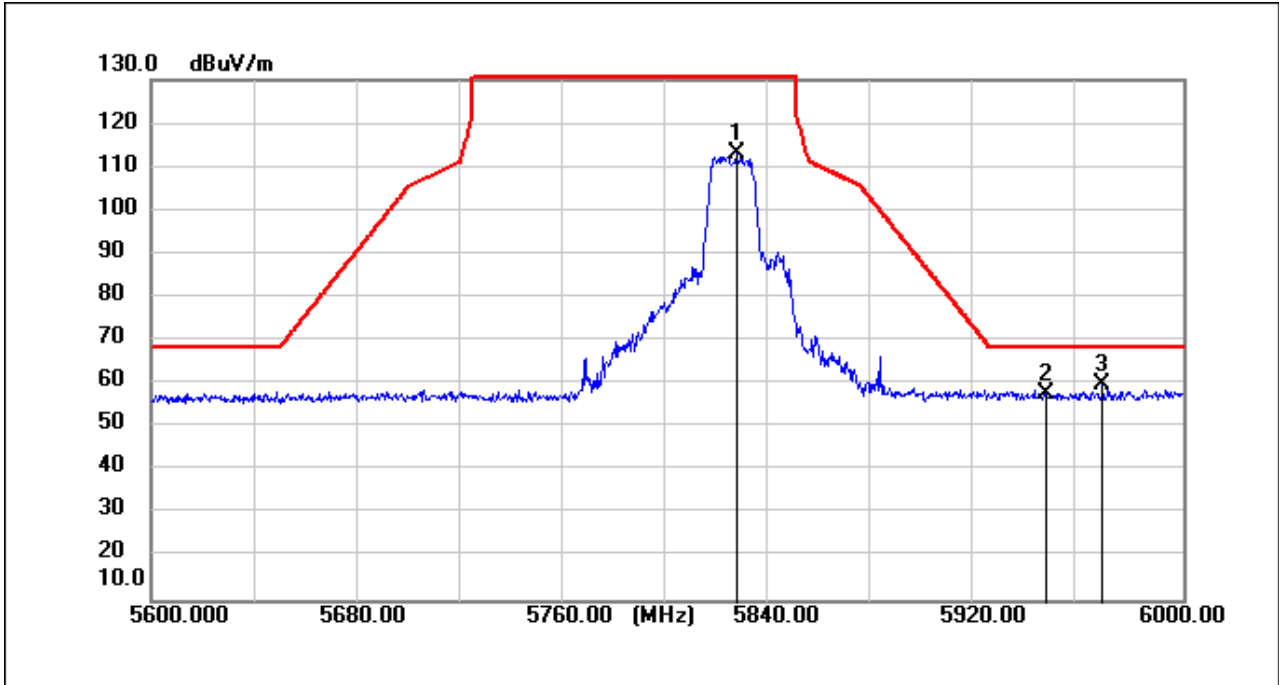
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5616.800	51.11	6.84	57.95	68.20	-10.25	peak
2	5634.000	50.68	6.86	57.54	68.20	-10.66	peak
3	5748.000	104.23	7.02	111.25	135.00	-23.75	peak

11a_TX_CH_165_Horizontal_Peak



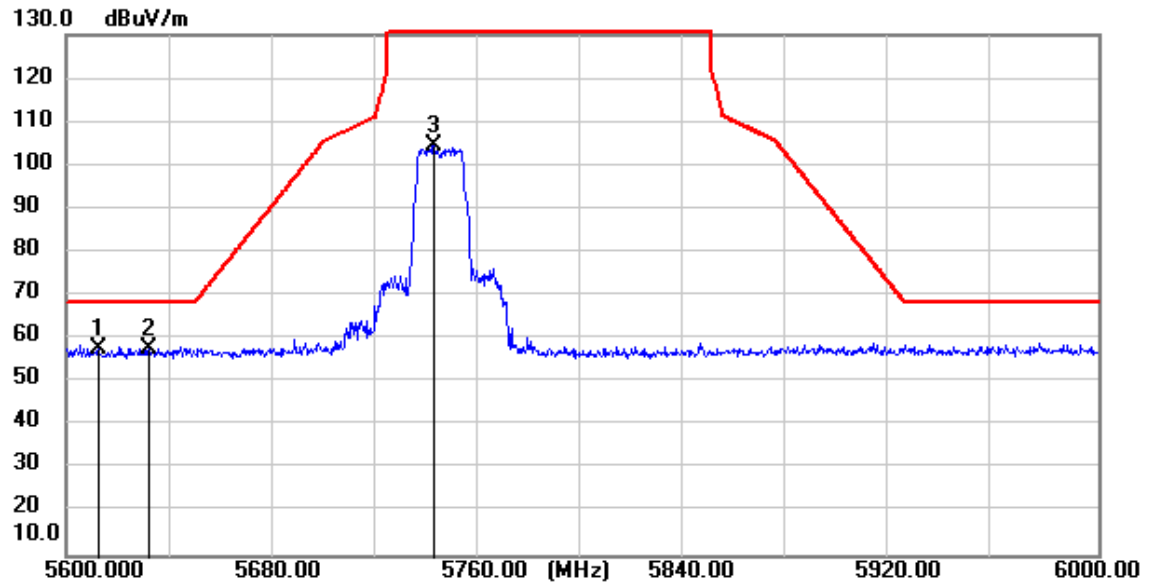
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5828.400	100.23	7.13	107.36	135.00	-27.64	peak
2	5940.400	51.75	7.30	59.05	68.20	-9.15	peak
3	5974.400	50.97	7.34	58.31	68.20	-9.89	peak

11a_TX_CH_165_Vertical_Peak



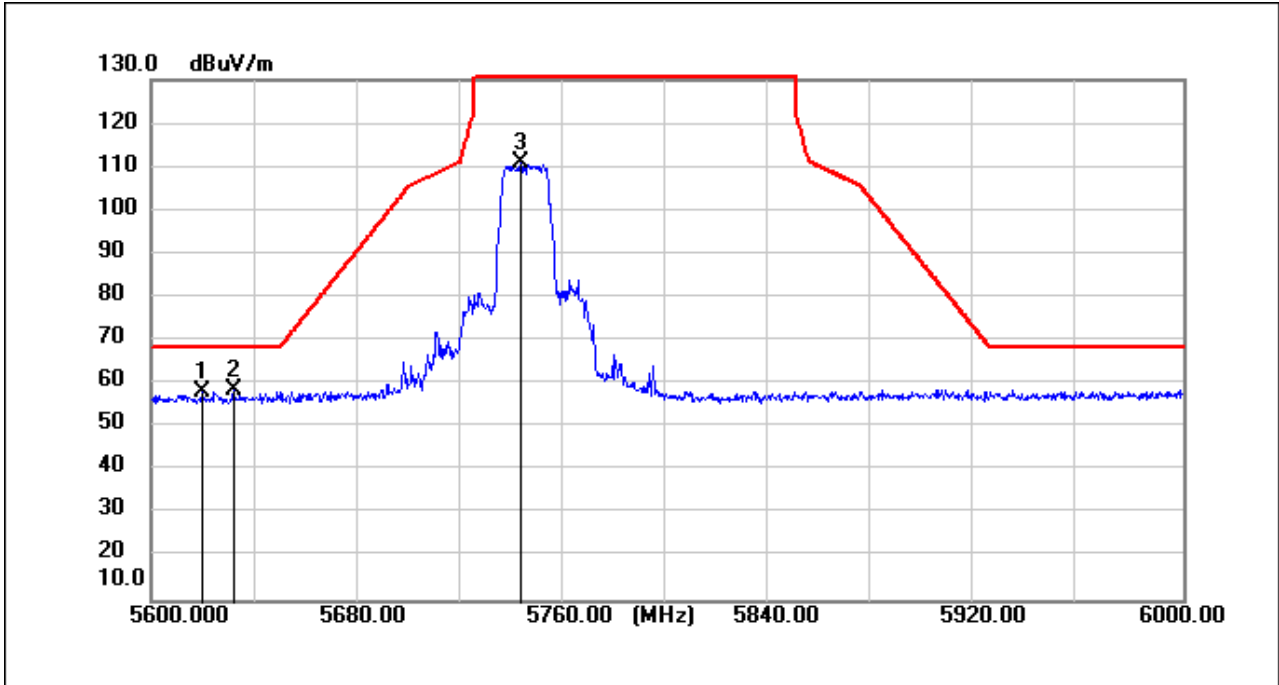
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5826.800	105.73	7.14	112.87	135.00	-22.13	peak
2	5946.800	50.48	7.31	57.79	68.20	-10.41	peak
3	5968.800	52.49	7.34	59.83	68.20	-8.37	peak

11ac(VHT20)_TX_CH_149_Horizontal_Peak



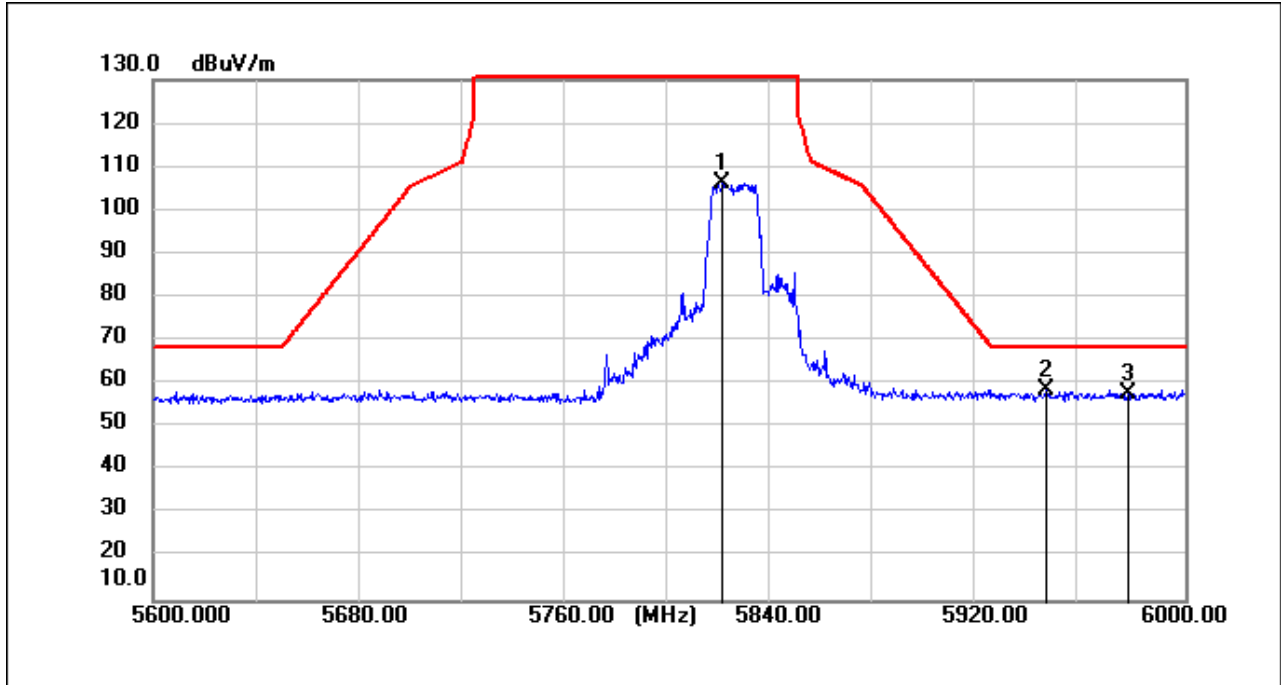
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5612.400	51.09	6.83	57.92	68.20	-10.28	peak
2	5632.000	50.85	6.86	57.71	68.20	-10.49	peak
3	5742.400	97.31	7.01	104.32	135.00	-30.68	peak

11ac(VHT20)_TX_CH_149_Vertical_Peak



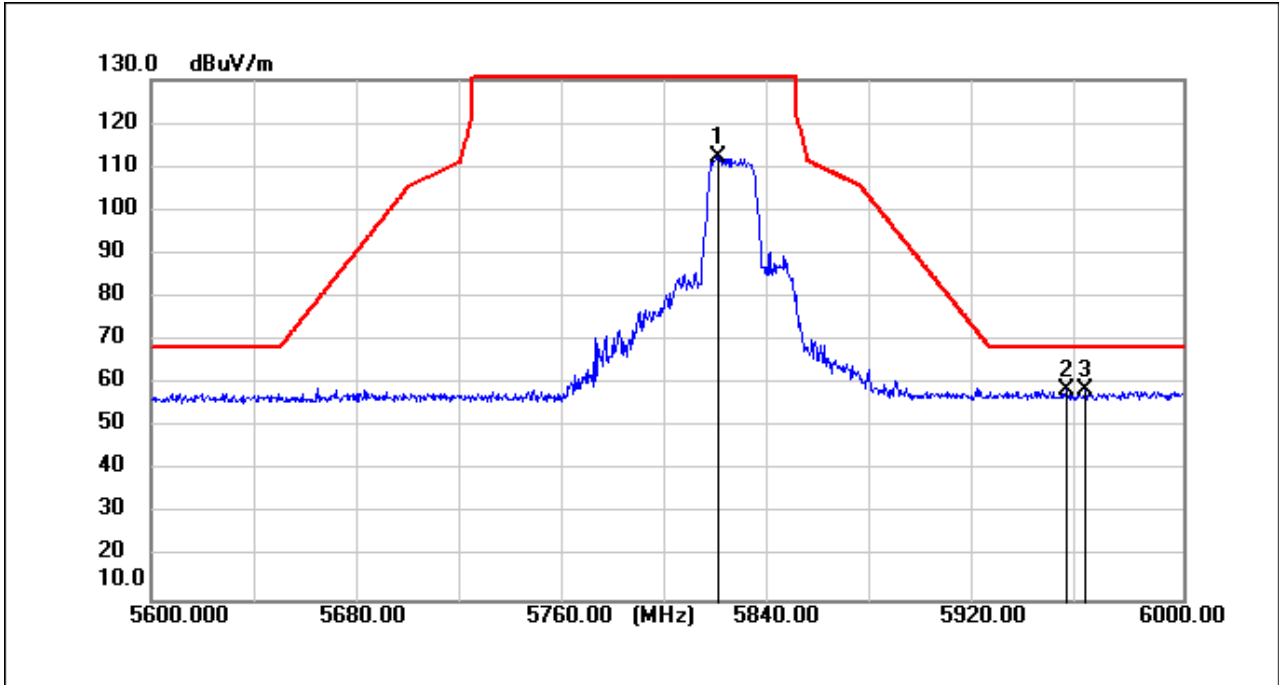
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5619.600	51.33	6.84	58.17	68.20	-10.03	peak
2	5632.000	51.63	6.86	58.49	68.20	-9.71	peak
3	5743.600	103.85	7.01	110.86	135.00	-24.14	peak

11ac(VHT20)_TX_CH_165_Horizontal_Peak



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5820.800	99.25	7.12	106.37	135.00	-28.63	peak
2	5946.000	51.25	7.30	58.55	68.20	-9.65	peak
3	5978.000	50.54	7.35	57.89	68.20	-10.31	peak

11ac(VHT20)_TX_CH_165_Vertical_Peak



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5820.000	105.28	7.12	112.40	135.00	-22.60	peak
2	5954.800	51.30	7.32	58.62	68.20	-9.58	peak
3	5962.400	51.20	7.33	58.53	68.20	-9.67	peak

7.5 Duty Cycle

Test Requirement ANSI C63.10 (2020) Section 12.2

Test Method: ANSI C63.10 (2020) Section 12.2

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 20.4 °C

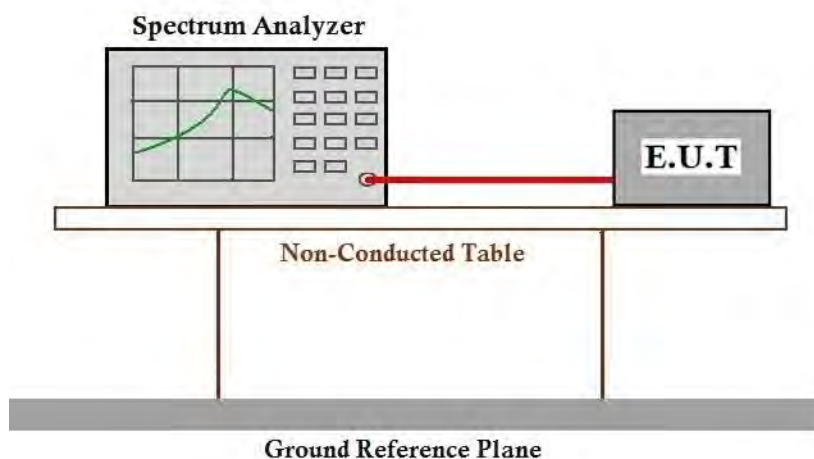
Humidity: 47.1 % RH

Atmospheric Pressure: 1010 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11ac 20, Only the data of worst case is recorded in the report.
Final test	02	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11ac 20, Only the data of worst case is recorded in the report.
Final test	03	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11ac 20, Only the data of worst case is recorded in the report.
Final test	04	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11ac 20, Only the data of worst case is recorded in the report.

7.5.3 Test Setup Diagram





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7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.6 99% Bandwidth

Test Requirement ANSI C63.10 (2020) Section 12.5.3

Test Method: ANSI C63.10 (2020) Section 12.5.3

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 20.4 °C

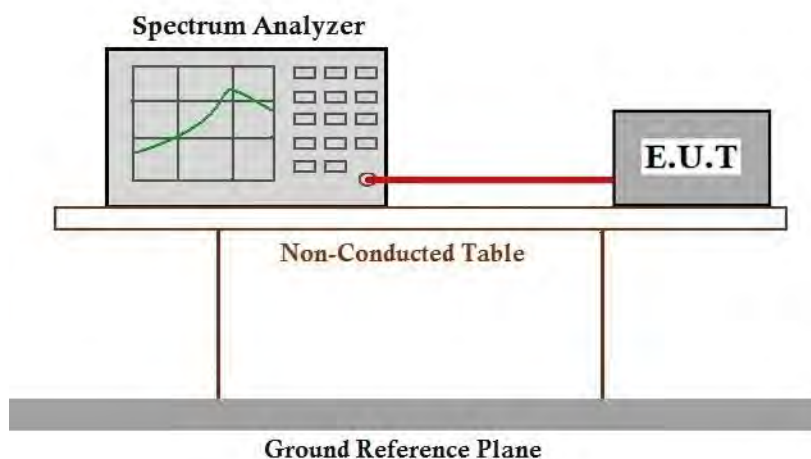
Humidity: 47.1 % RH

Atmospheric Pressure: 1010 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11ac 20, Only the data of worst case is recorded in the report.
Final test	02	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11ac 20, Only the data of worst case is recorded in the report.
Final test	03	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11ac 20, Only the data of worst case is recorded in the report.
Final test	04	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11ac 20, Only the data of worst case is recorded in the report.

7.6.3 Test Setup Diagram





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7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.7 26dB Emission bandwidth

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)

Test Method: ANSI C63.10 (2020) Section 12.5.2

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 20.4 °C

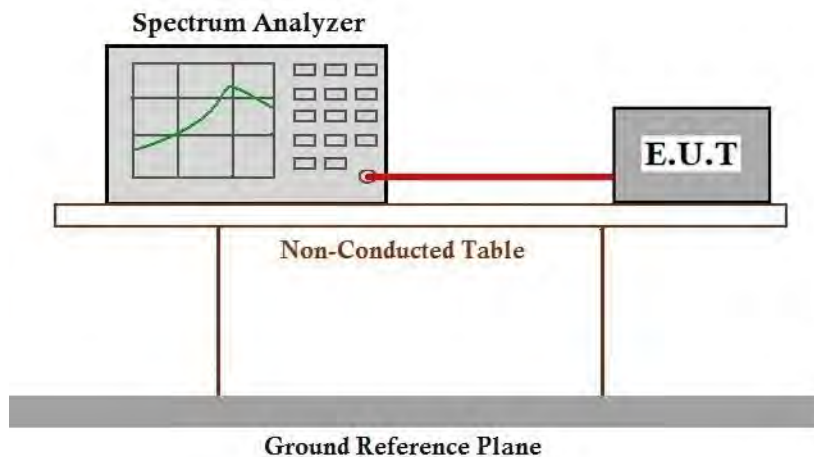
Humidity: 47.1 % RH

Atmospheric Pressure: 1010 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11ac 20, Only the data of worst case is recorded in the report.
Final test	02	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11ac 20, Only the data of worst case is recorded in the report.
Final test	03	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11ac 20, Only the data of worst case is recorded in the report.

7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.8 Minimum 6 dB bandwidth (5.725-5.85 GHz band)

Test Requirement 47 CFR Part 15, Subpart E 15.407 (e)

Test Method: ANSI C63.10 (2020) Section 12.5.1

Limit:

Frequency band(MHz)	Limit
5725-5850	≥ 500 kHz

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 20.4 °C

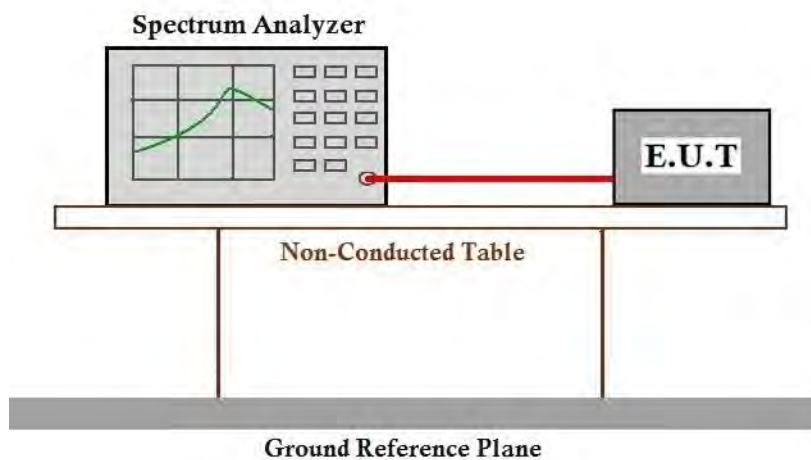
Humidity: 47.1 % RH

Atmospheric Pressure: 1010 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11ac 20, Only the data of worst case is recorded in the report.

7.8.3 Test Setup Diagram



7.8.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.9 Maximum Conducted output power

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)

Test Method: ANSI C63.10 (2020) Section 12.4

Limit:

Frequency band(MHz)	Limit
5150-5250	$\leq 1W(30dBm)$ for master device
	$\leq 250mW(24dBm)$ for client device
5250-5350	$\leq 250mW(24dBm)$ or $11dBm+10\log B^*$
5470-5725	$\leq 250mW(24dBm)$ or $11dBm+10\log B^*$
5725-5850	$\leq 1W(30dBm)$
Remark:	* Where B is the 26dB emission bandwidth in MHz. The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 20.4 °C

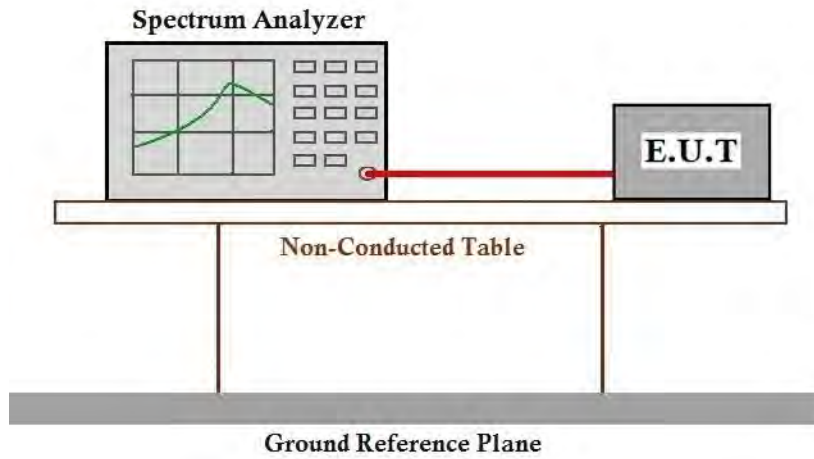
Humidity: 47.1 % RH

Atmospheric Pressure: 1010 mbar

7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11ac 20, Only the data of worst case is recorded in the report.
Final test	02	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11ac 20, Only the data of worst case is recorded in the report.
Final test	03	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11ac 20, Only the data of worst case is recorded in the report.
Final test	04	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11ac 20, Only the data of worst case is recorded in the report.

7.9.3 Test Setup Diagram



7.9.4 Measurement Procedure and Data

Note: Since the verify power the same operating range bandwidth and smaller power can be covered by the higher power.

AV Output power Level = Reading level + Cable loss + DCCF

Please Refer to Appendix for Details

7.10 Peak Power spectrum density

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)

Test Method: ANSI C63.10 (2020) Section 12.6

Limit:

Frequency band(MHz)	Limit
5150-5250	≤17dBm in 1MHz for master device
	≤11dBm in 1MHz for client device
5250-5350	≤11dBm in 1MHz for client device
5470-5725	≤11dBm in 1MHz for client device
5725-5850	≤30dBm in 500 kHz
Remark:	The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test.

7.10.1 E.U.T. Operation

Operating Environment:

Temperature: 20.4 °C

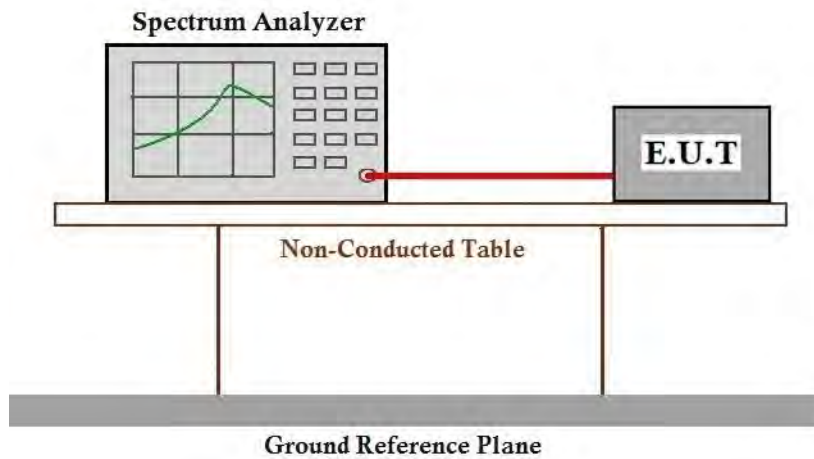
Humidity: 47.1 % RH

Atmospheric Pressure: 1010 mbar

7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11ac 20, Only the data of worst case is recorded in the report.
Final test	02	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11ac 20, Only the data of worst case is recorded in the report.
Final test	03	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11ac 20, Only the data of worst case is recorded in the report.
Final test	04	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11ac 20, Only the data of worst case is recorded in the report.

7.10.3 Test Setup Diagram



7.10.4 Measurement Procedure and Data

RBW conversion factor from 300kHz to 500kHz (2.22dB) for UNII Band 3 has been considered.

Please Refer to Appendix for Details

7.11 Frequency Stability

Test Requirement 47 CFR Part 15, Subpart E 15.407 (g)

Test Method: ANSI C63.10 (2020) Section 6.8

7.11.1 E.U.T. Operation

Operating Environment:

Temperature: 20.4 °C

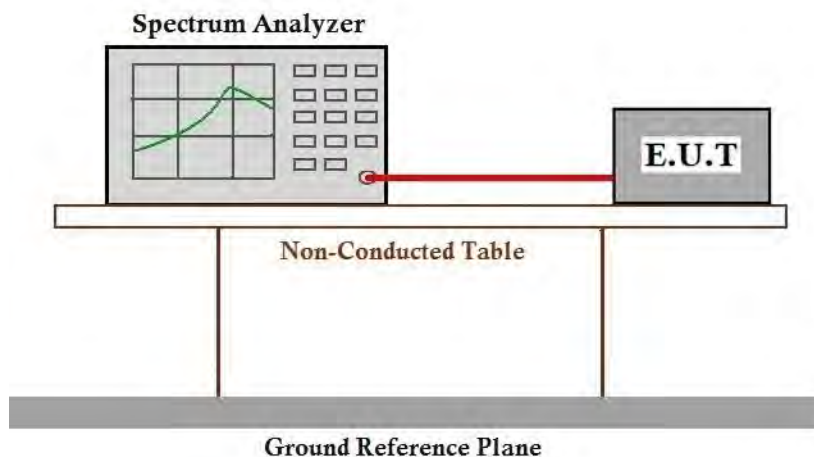
Humidity: 47.1 % RH

Atmospheric Pressure: 1010 mbar

7.11.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11ac 20, Only the data of worst case is recorded in the report.
Final test	02	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11ac 20, Only the data of worst case is recorded in the report.
Final test	03	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11ac 20, Only the data of worst case is recorded in the report.
Final test	04	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11ac 20, Only the data of worst case is recorded in the report.

7.11.3 Test Setup Diagram





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7.11.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.12 Channel Move Time

Test Requirement KDB 905462 D02 Section 5.1
Test Method: KDB 905462 D02 Section 7.8.3

Limit:

Test item	Limit	Applicability	
		Master Device or client with Radar Detection	Client without Radar Detection
Non-occupancy period	Minimum 30 minutes	Yes	Not required
Channel Availability Check Time	60 seconds	Yes	Not required
Channel Move Time	10 seconds See Note 1.	Yes	Yes
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.	Yes	Yes
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.	Yes	Not required
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.			

7.12.1 E.U.T. Operation

Operating Environment:

Temperature: 20.4 °C

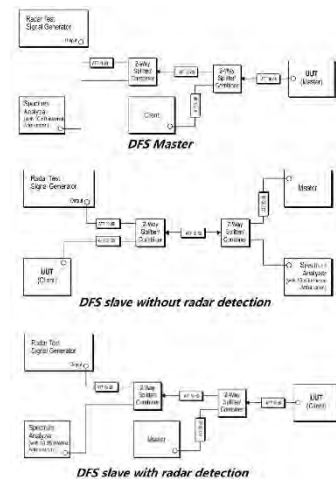
Humidity: 47.1 % RH

Atmospheric Pressure: 1010 mbar

7.12.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	Normal operating_Keep the EUT communication with the companion device.

7.12.3 Test Setup Diagram



7.12.4 Measurement Procedure and Data

- 1) The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.
- 2) The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device.
- 3) A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.
- 4) EUT will associate with the master at channel. The file "iperf.exe" specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Media Player Classic Ver. 6.4.8.6 in order to properly load the network for the entire period of the test.
- 5) When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.
- 6) Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type.
- 7) Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: $Dwell (0.3ms) = S (12000ms) / B (4000)$; where Dwell is the dwell time per spectrum analyzer sampling bin, S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: $C (ms) = N \times Dwell (0.3ms)$; where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.
- 8) Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

Please Refer to Appendix for Details

7.13 Channel Closing Transmission Time

Test Requirement KDB 905462 D02 Section 5.1
Test Method: KDB 905462 D02 Section 7.8.3

Limit:

Test item	Limit	Applicability	
		Master Device or client with Radar Detection	Client without Radar Detection
Non-occupancy period	Minimum 30 minutes	Yes	Not required
Channel Availability Check Time	60 seconds	Yes	Not required
Channel Move Time	10 seconds See Note 1.	Yes	Yes
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.	Yes	Yes
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.	Yes	Not required
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.			

7.13.1 E.U.T. Operation

Operating Environment:

Temperature: 20.4 °C

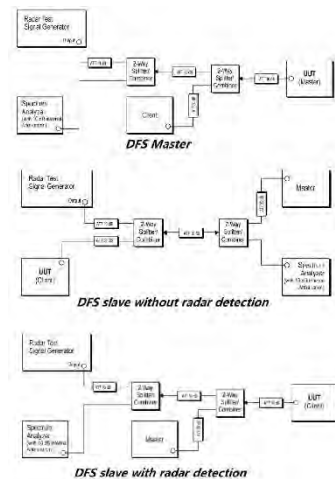
Humidity: 47.1 % RH

Atmospheric Pressure: 1010 mbar

7.13.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	Normal operating_Keep the EUT communication with the companion device.

7.13.3 Test Setup Diagram



7.13.4 Measurement Procedure and Data

- 1) The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.
- 2) The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device.
- 3) A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.
- 4) EUT will associate with the master at channel. The file "iperf.exe" specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Media Player Classic Ver. 6.4.8.6 in order to properly load the network for the entire period of the test.
- 5) When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.
- 6) Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type.
- 7) Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: $Dwell (0.3ms) = S (12000ms) / B (4000)$; where Dwell is the dwell time per spectrum analyzer sampling bin, S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: $C (ms) = N \times Dwell (0.3ms)$; where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.
- 8) Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

Please Refer to Appendix for Details

7.14 Non-occupancy period

Test Requirement KDB 905462 D02 Section 5.1

Test Method: KDB 905462 D02 Section 7.8.3

Limit:

Test item	Limit	Applicability	
		Master Device or client with Radar Detection	Client without Radar Detection
Non-occupancy period	Minimum 30 minutes	Yes	Not required
Channel Availability Check Time	60 seconds	Yes	Not required
Channel Move Time	10 seconds See Note 1.	Yes	Yes
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.	Yes	Yes
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.	Yes	Not required
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.			

7.14.1 E.U.T. Operation

Operating Environment:

Temperature: 20.4 °C

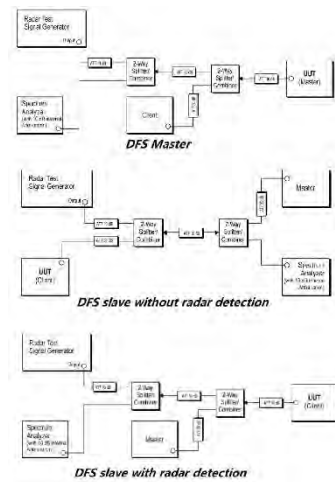
Humidity: 47.1 % RH

Atmospheric Pressure: 1010 mbar

7.14.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	Normal operating_Keep the EUT communication with the companion device.

7.14.3 Test Setup Diagram



7.14.4 Measurement Procedure and Data

- 1) The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.
- 2) The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device.
- 3) A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.
- 4) EUT will associate with the master at channel. The file "iperf.exe" specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Media Player Classic Ver. 6.4.8.6 in order to properly load the network for the entire period of the test.
- 5) When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.
- 6) Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type.
- 7) Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: $Dwell (0.3ms) = S (12000ms) / B (4000)$; where Dwell is the dwell time per spectrum analyzer sampling bin, S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: $C (ms) = N \times Dwell (0.3ms)$; where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.
- 8) Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

Please Refer to Appendix for Details



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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for KSCR2512002641AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix_Photographs of EUT Constructional Details for KSCR2512002641AT

10 Appendix

1. Duty Cycle

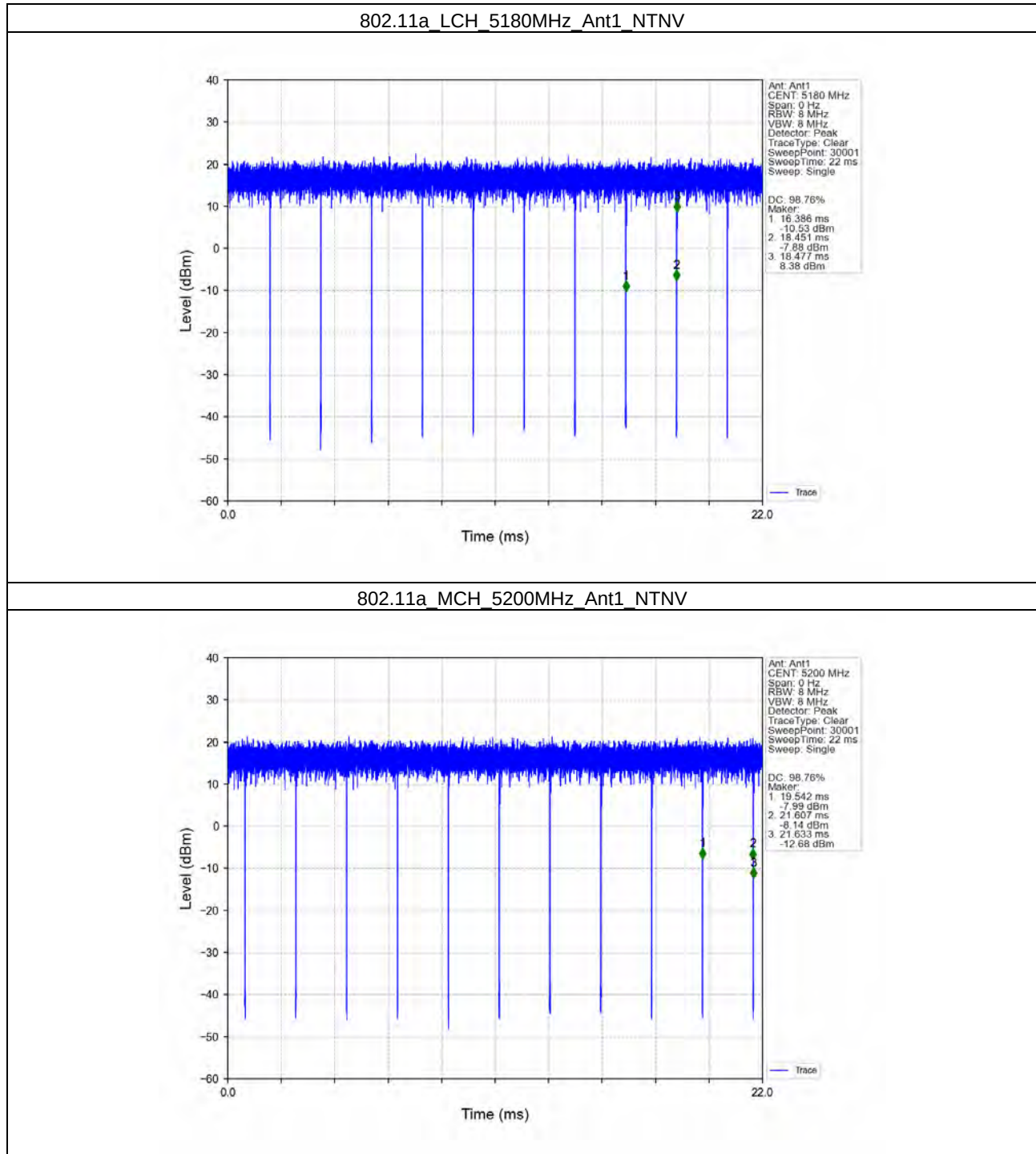
1.1 Test Result

1.1.1 Ant1

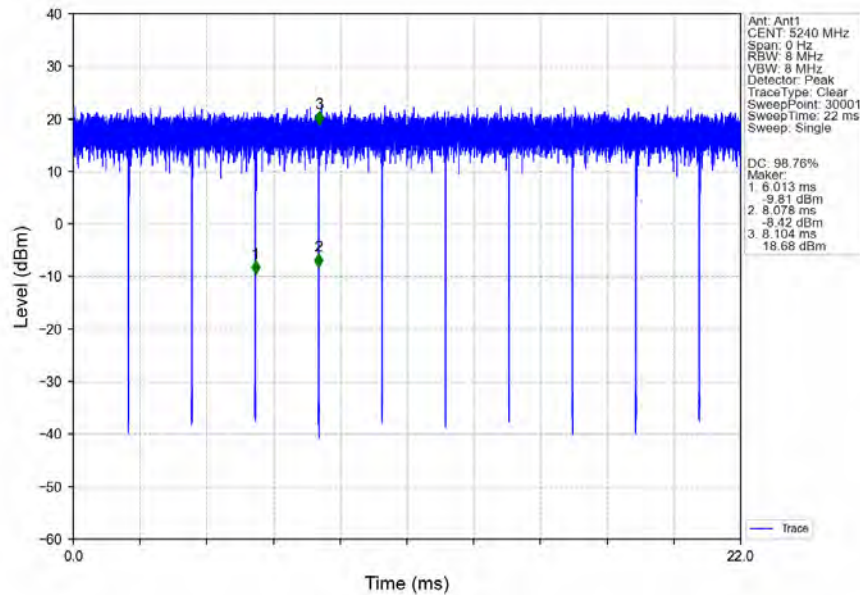
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	2.065	2.091	98.76	0.05	0.07
		5200	2.065	2.091	98.76	0.05	0.07
		5240	2.065	2.091	98.76	0.05	0.07
		5260	2.065	2.090	98.80	0.05	0.04
		5300	2.065	2.091	98.76	0.05	0.04
		5320	2.065	2.090	98.80	0.05	0.00
		5500	2.065	2.091	98.76	0.05	0.03
		5580	2.065	2.090	98.80	0.05	0.00
		5700	2.065	2.090	98.80	0.05	0.03
		5745	2.065	2.091	98.76	0.05	0.03
		5785	2.065	2.090	98.80	0.05	0.00
		5825	2.065	2.091	98.76	0.05	0.04
802.11ac (VHT20)	SISO	5180	1.346	1.451	92.76	0.33	0.03
		5200	1.345	1.452	92.63	0.33	0.10
		5240	1.345	1.452	92.63	0.33	0.03
		5260	1.347	1.452	92.77	0.33	0.03
		5300	1.345	1.453	92.57	0.34	0.10
		5320	1.345	1.452	92.63	0.33	0.03
		5500	1.346	1.451	92.76	0.33	0.03
		5580	1.345	1.452	92.63	0.33	0.03
		5700	1.345	1.452	92.63	0.33	0.04
		5745	1.346	1.451	92.76	0.33	0.03
		5785	1.345	1.452	92.63	0.33	0.06
		5825	1.345	1.452	92.63	0.33	0.00

1.2 Test Graph

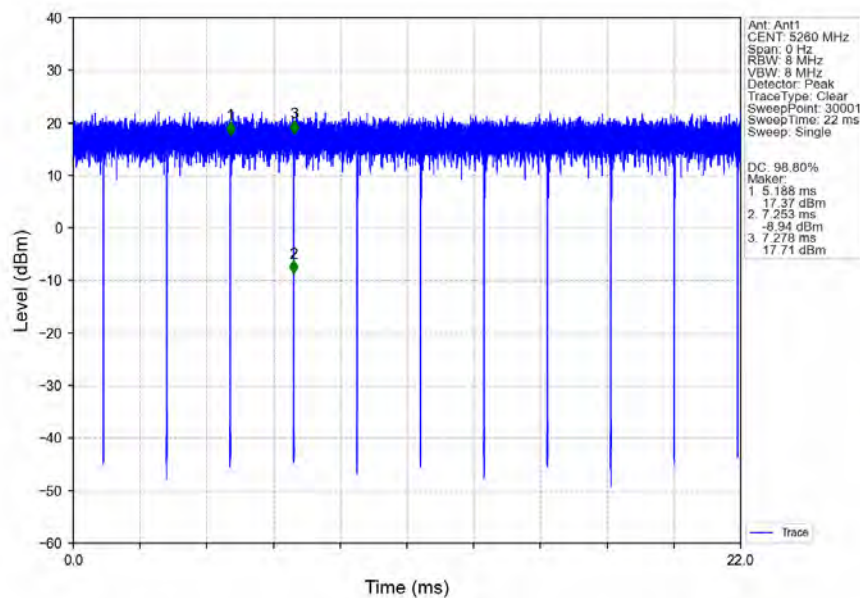
1.2.1 Ant1



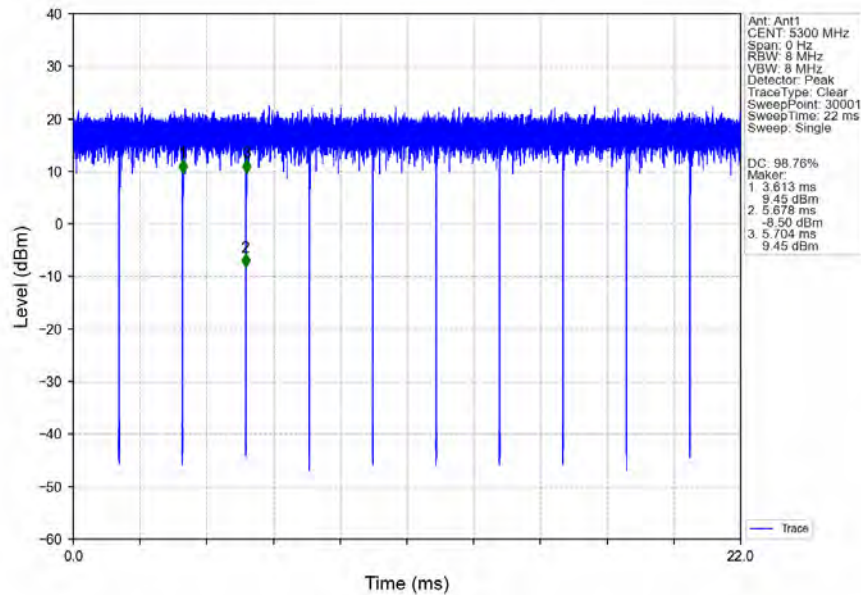
802.11a_HCH_5240MHz_Ant1_NTNV



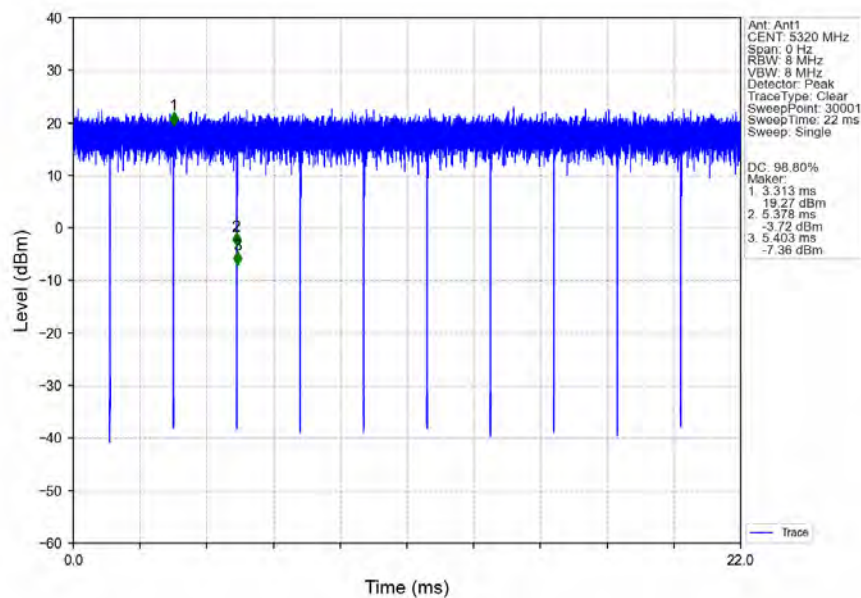
802.11a_LCH_5260MHz_Ant1_NTNV



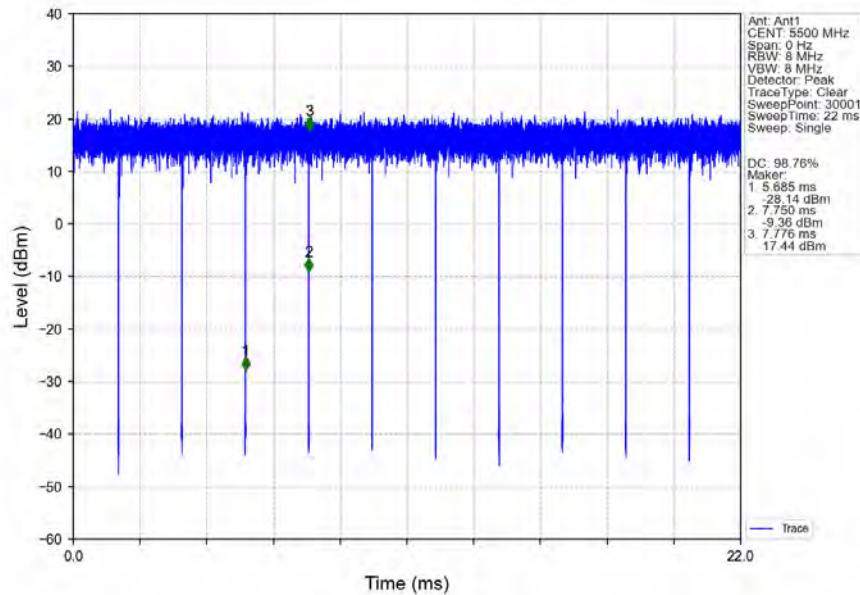
802.11a_MCH_5300MHz_Ant1_NTNV



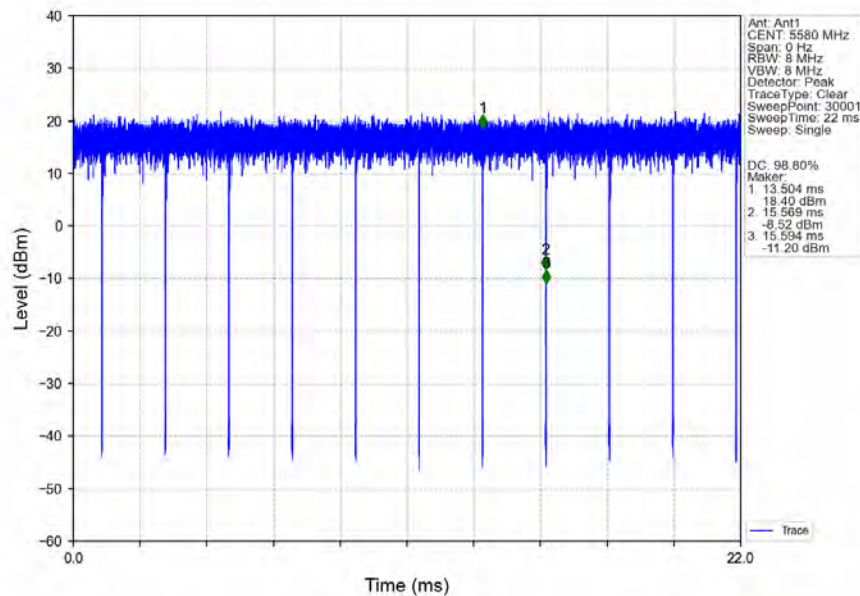
802.11a_HCH_5320MHz_Ant1_NTNV



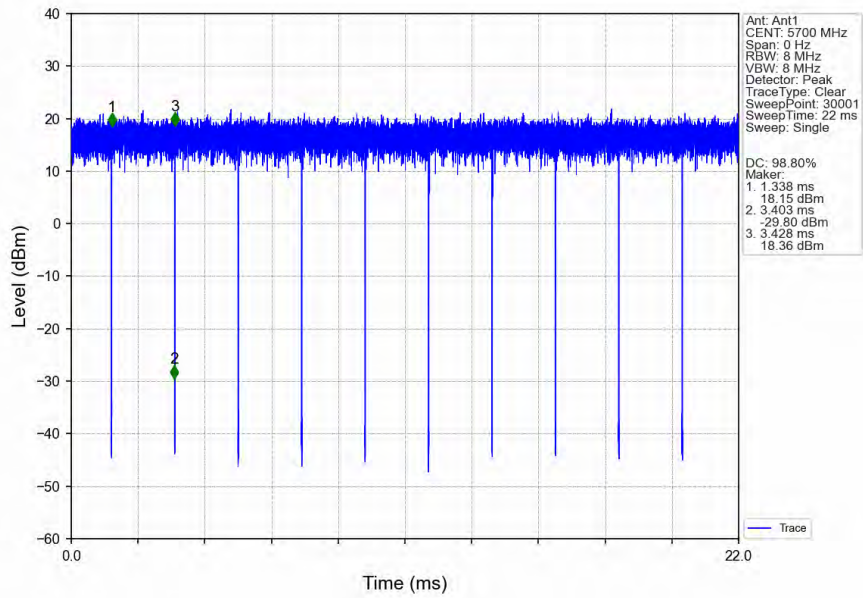
802.11a_LCH_5500MHz_Ant1_NTNV



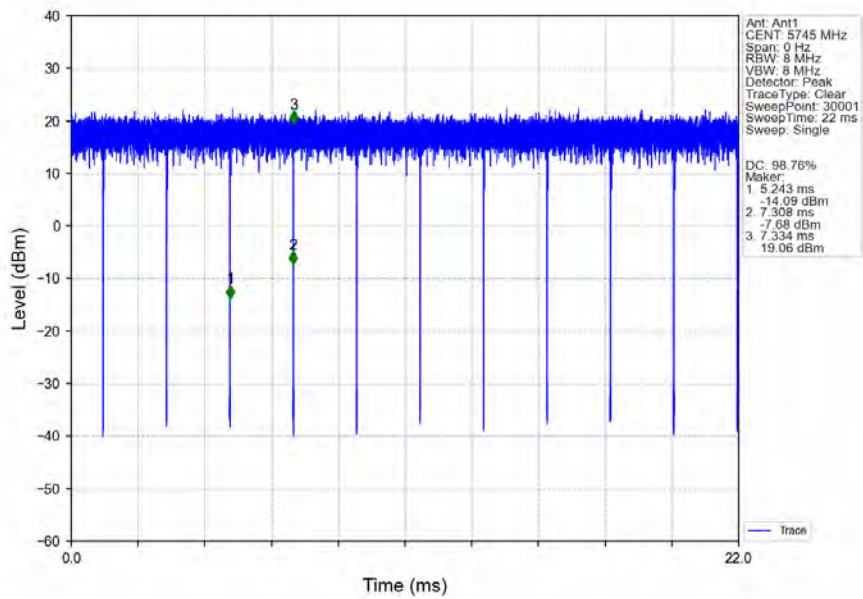
802.11a_MCH_5580MHz_Ant1_NTNV



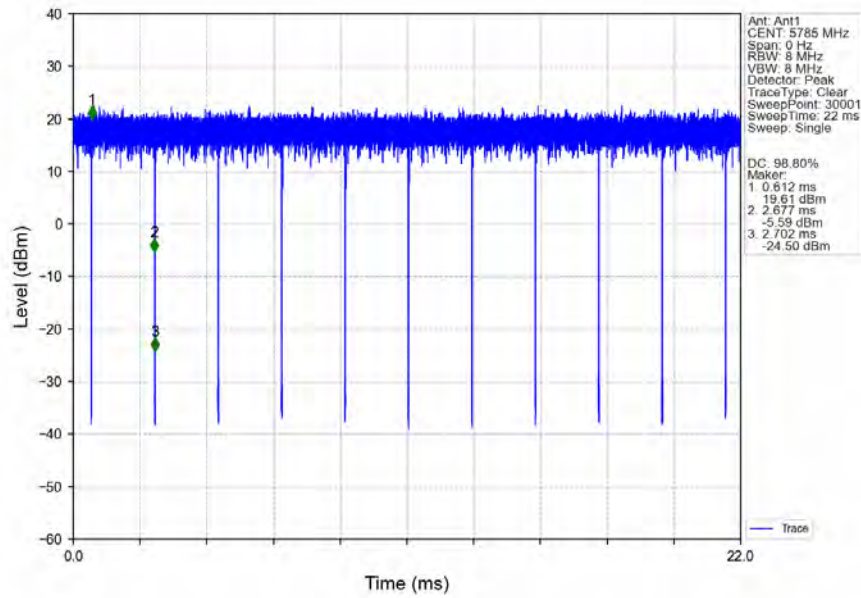
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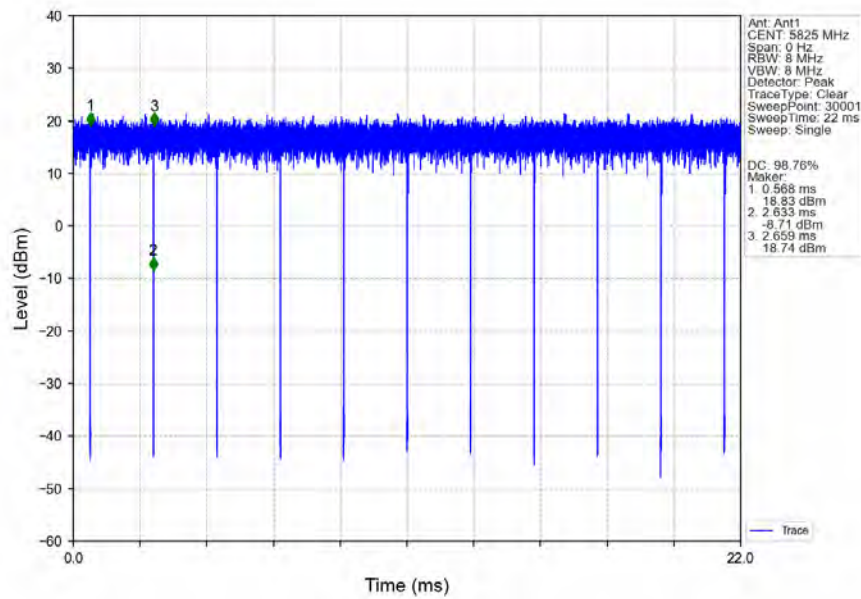
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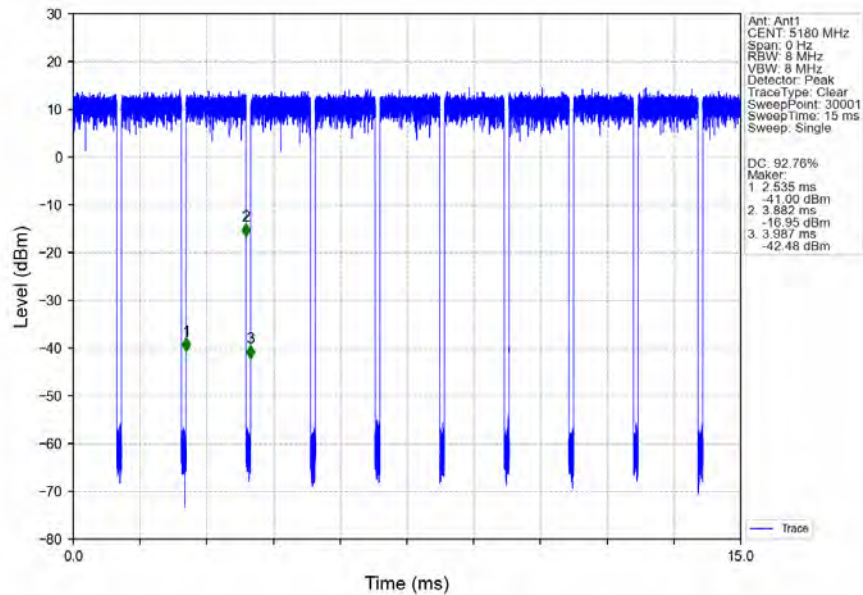
802.11a_MCH_5785MHz_Ant1_NTNV



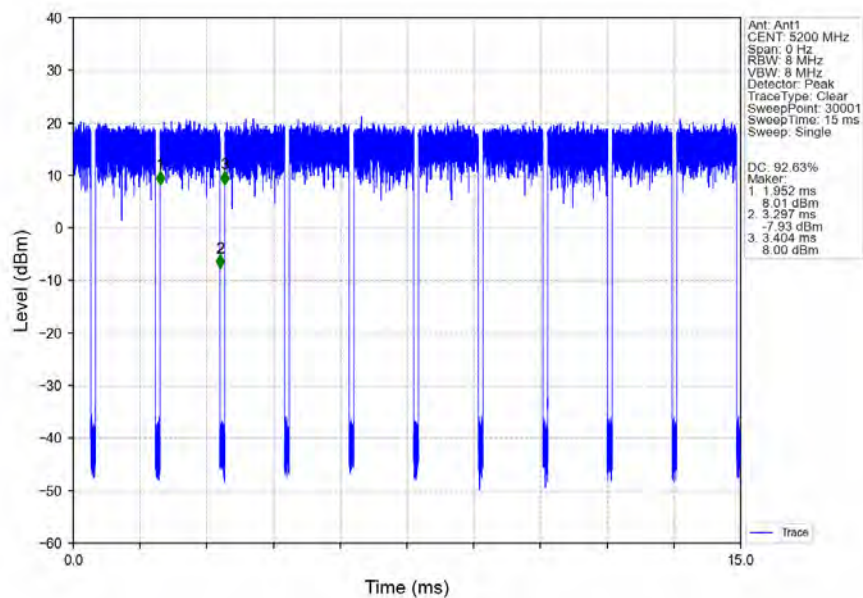
802.11a_HCH_5825MHz_Ant1_NTNV



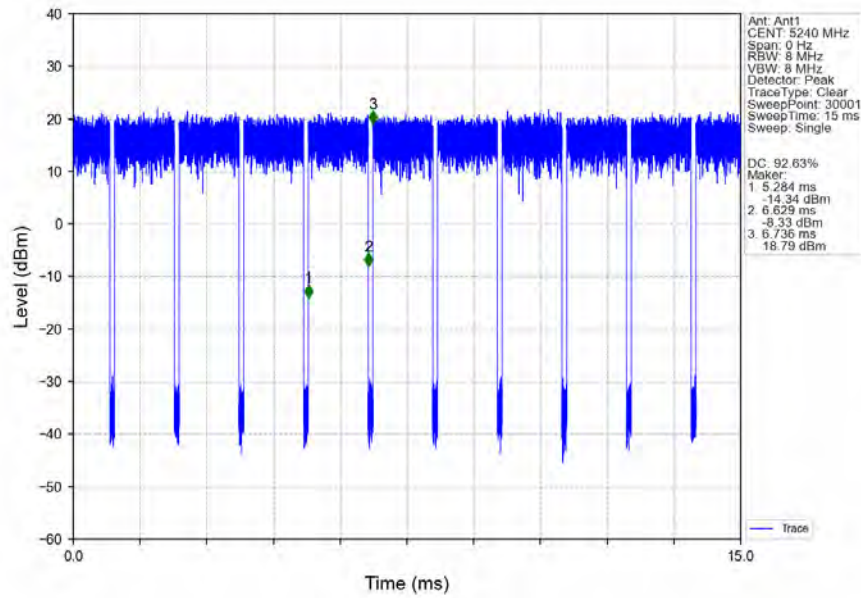
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



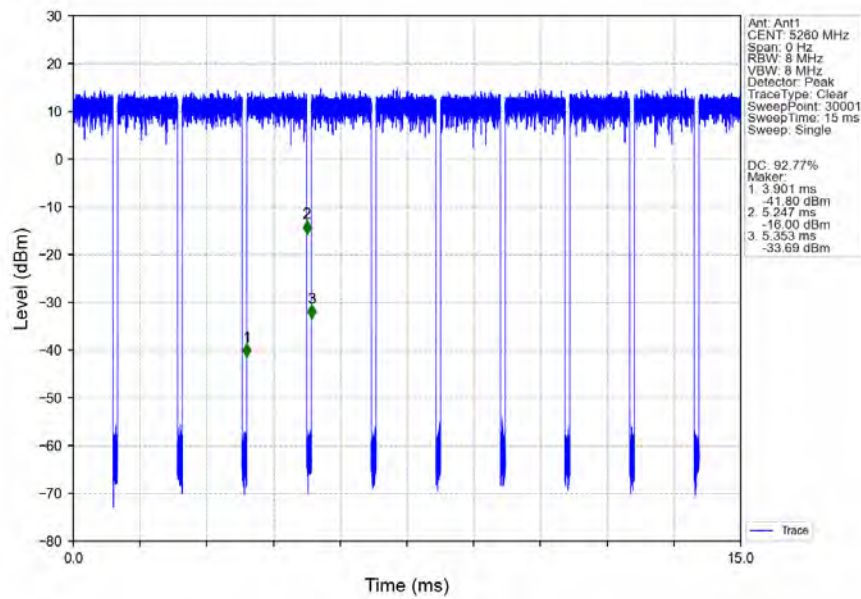
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



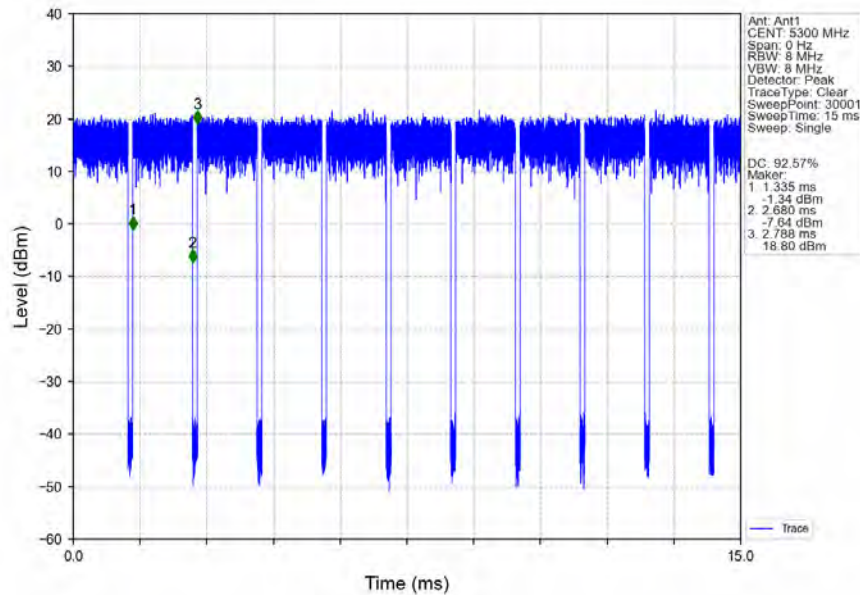
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



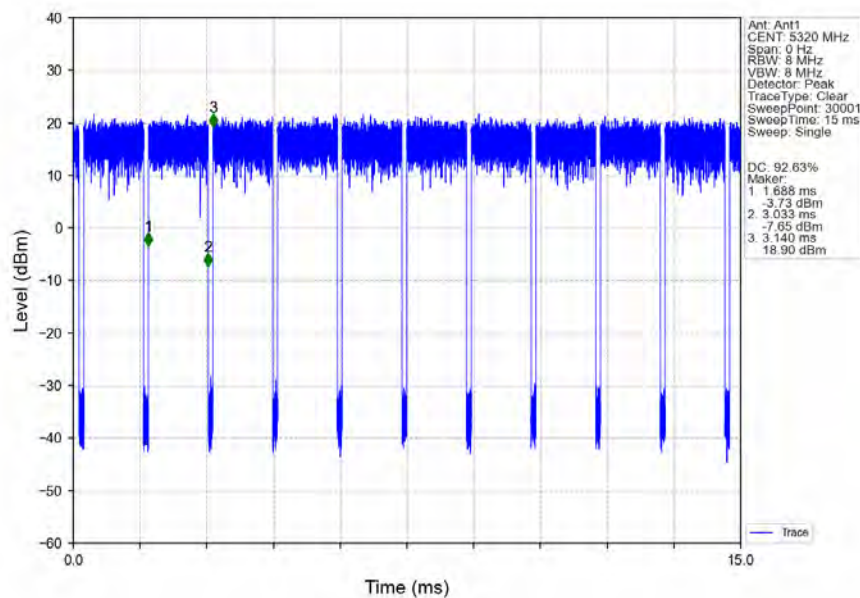
802.11ac(VHT20)_LCH_5260MHz_Ant1_NTNV



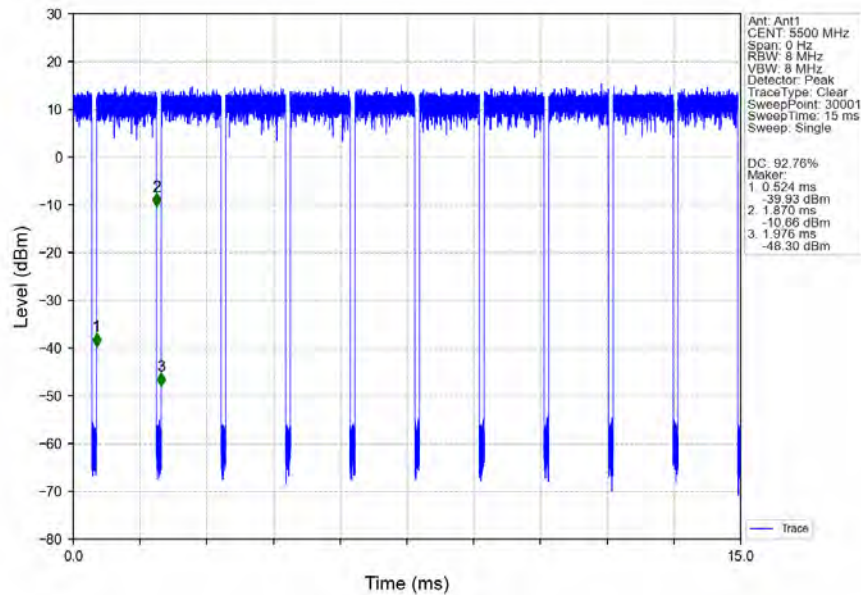
802.11ac(VHT20)_MCH_5300MHz_Ant1_NTNV



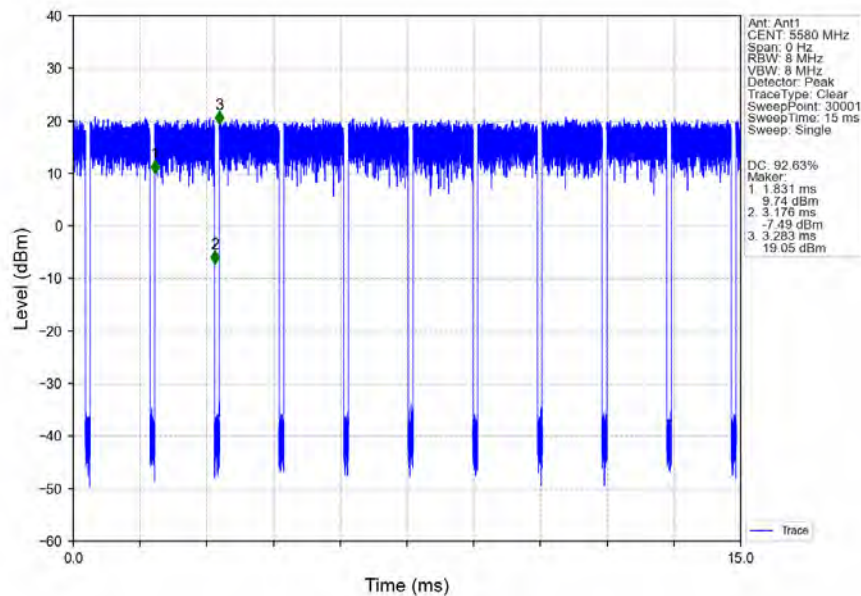
802.11ac(VHT20)_HCH_5320MHz_Ant1_NTNV



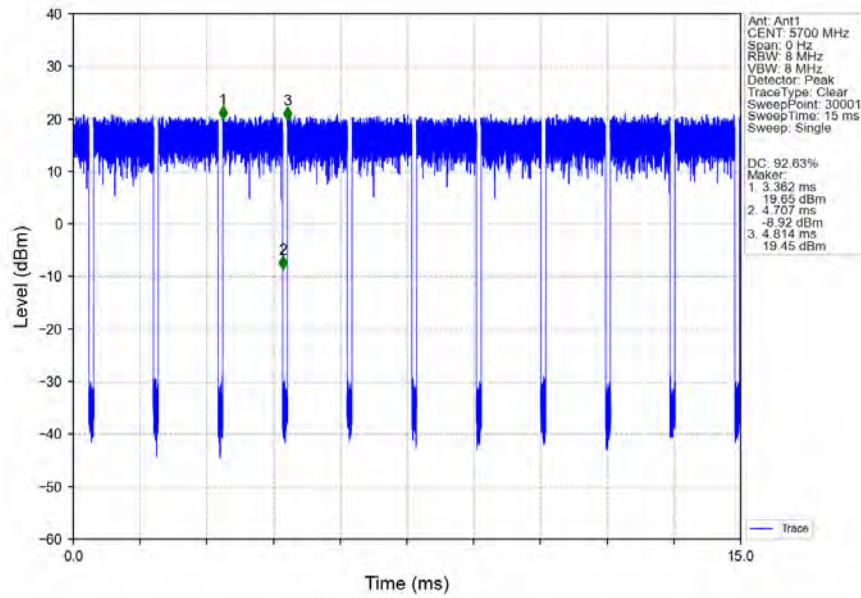
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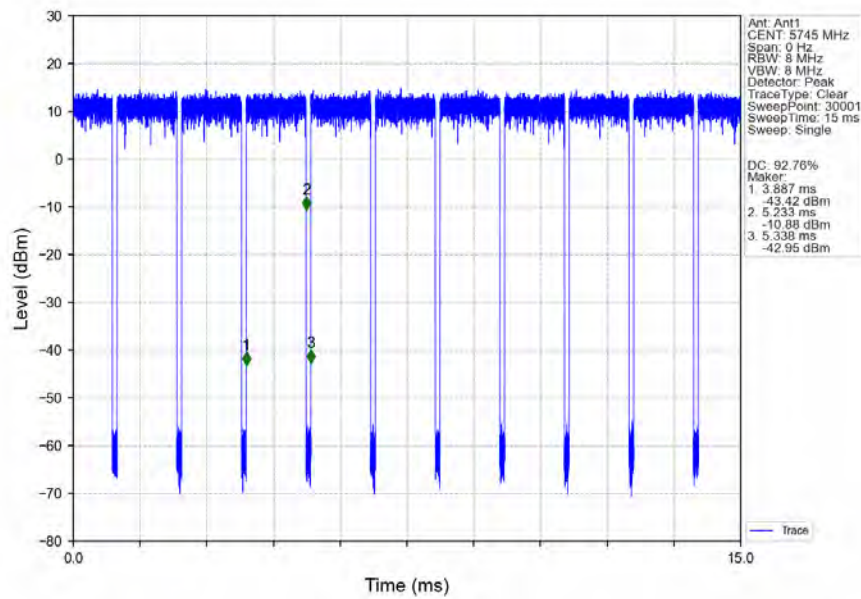
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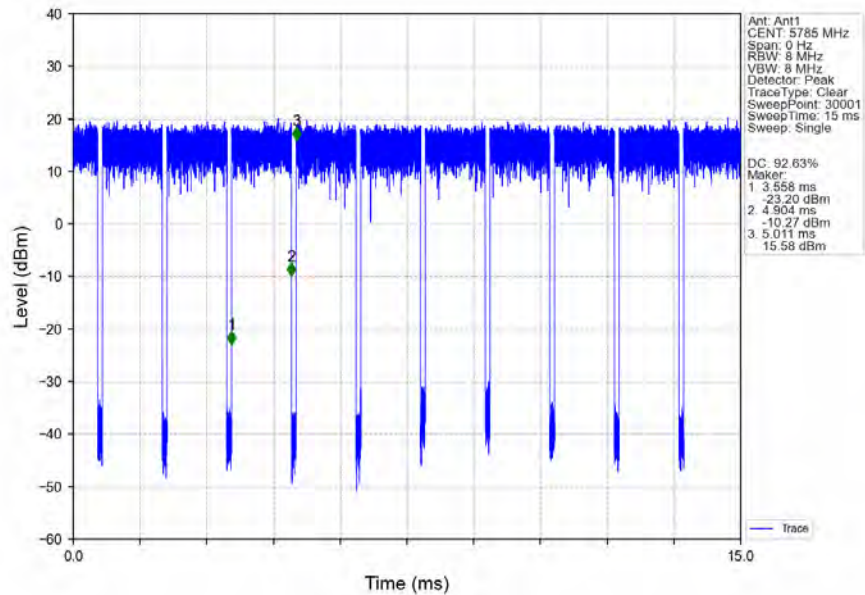
802.11ac(VHT20)_HCH_5700MHz_Ant1_NTNV



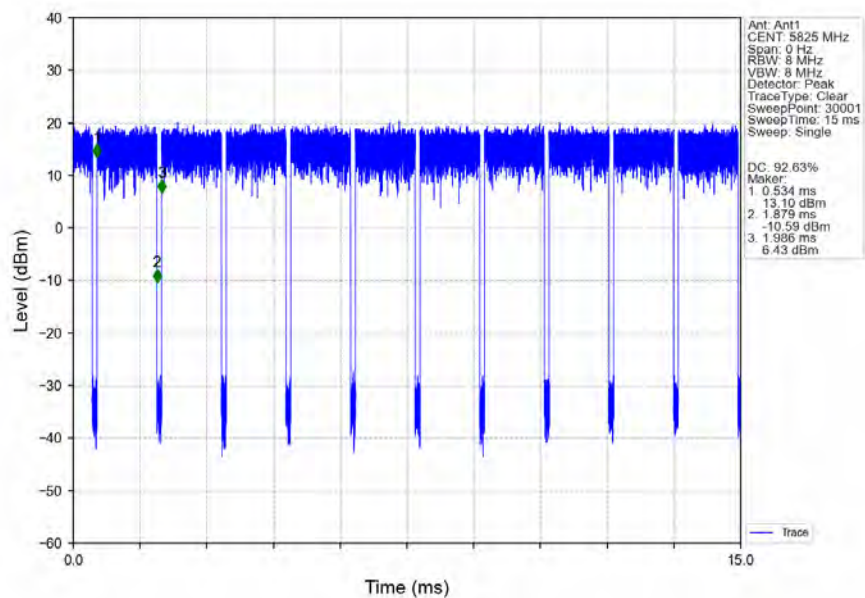
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5180	1	17.813	/	Pass
		5200	1	17.904	/	Pass
		5240	1	17.771	/	Pass
		5260	1	17.848	/	Pass
		5300	1	17.919	/	Pass
		5320	1	17.856	/	Pass
		5500	1	17.894	/	Pass
		5580	1	17.673	/	Pass
		5700	1	17.921	/	Pass
		5745	1	17.996	/	Pass
		5785	1	18.210	/	Pass
		5825	1	18.093	/	Pass
802.11ac (VHT20)	SISO	5180	1	18.685	/	Pass
		5200	1	18.702	/	Pass
		5240	1	18.601	/	Pass
		5260	1	18.700	/	Pass
		5300	1	18.779	/	Pass
		5320	1	18.743	/	Pass
		5500	1	18.725	/	Pass
		5580	1	18.706	/	Pass
		5700	1	18.703	/	Pass
		5745	1	18.776	/	Pass
		5785	1	19.050	/	Pass
		5825	1	19.053	/	Pass

2.1.2 26dB BW

Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5180	1	21.683	/	Pass
		5200	1	21.703	/	Pass
		5240	1	21.656	/	Pass
		5260	1	21.666	/	Pass
		5300	1	21.876	/	Pass
		5320	1	21.843	/	Pass
		5500	1	21.705	/	Pass
		5580	1	21.731	/	Pass
		5700	1	21.733	/	Pass
802.11ac (VHT20)	SISO	5180	1	21.841	/	Pass
		5200	1	21.976	/	Pass



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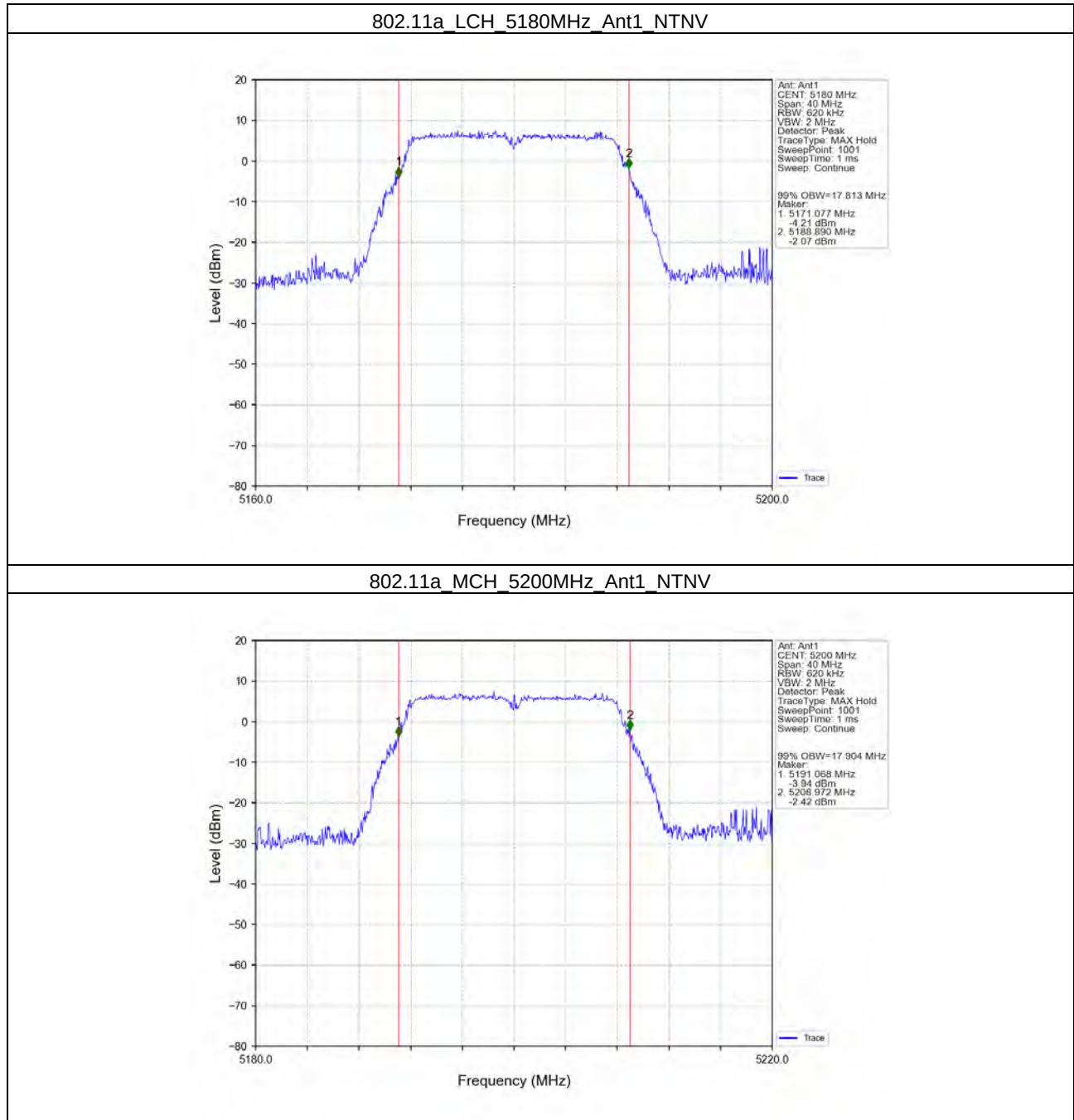
		5240	1	21.784	/	Pass
		5260	1	21.831	/	Pass
		5300	1	21.931	/	Pass
		5320	1	21.973	/	Pass
		5500	1	21.683	/	Pass
		5580	1	21.703	/	Pass
		5700	1	21.656	/	Pass

2.1.3 6dB BW

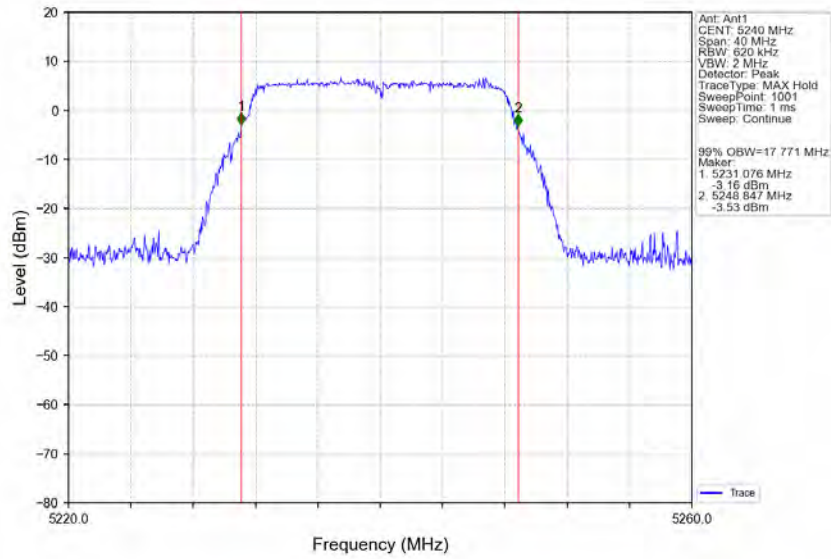
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	16.363	≥ 0.5	Pass
		5785	1	16.387	≥ 0.5	Pass
		5825	1	16.377	≥ 0.5	Pass
802.11ac (VHT20)	SISO	5745	1	17.298	≥ 0.5	Pass
		5785	1	17.568	≥ 0.5	Pass
		5825	1	17.602	≥ 0.5	Pass

2.2 Test Graph

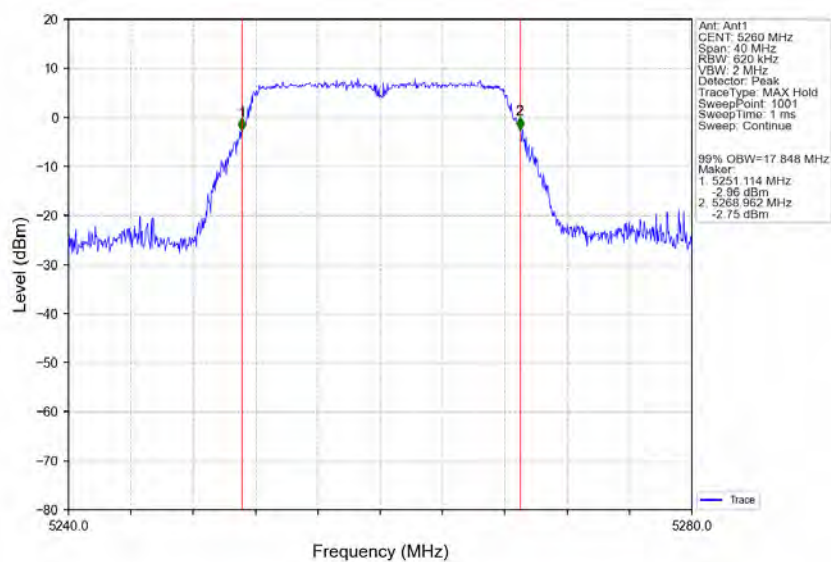
2.2.1 OBW



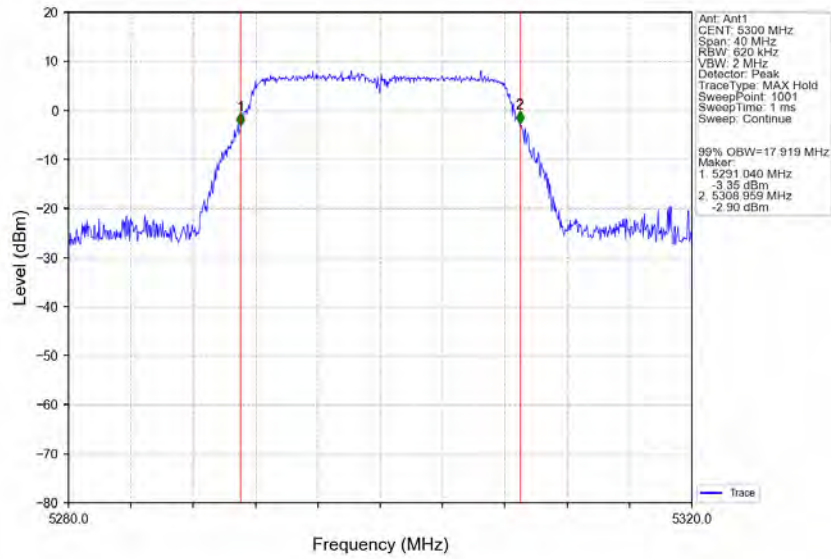
802.11a HCH 5240MHz Ant1 NTN



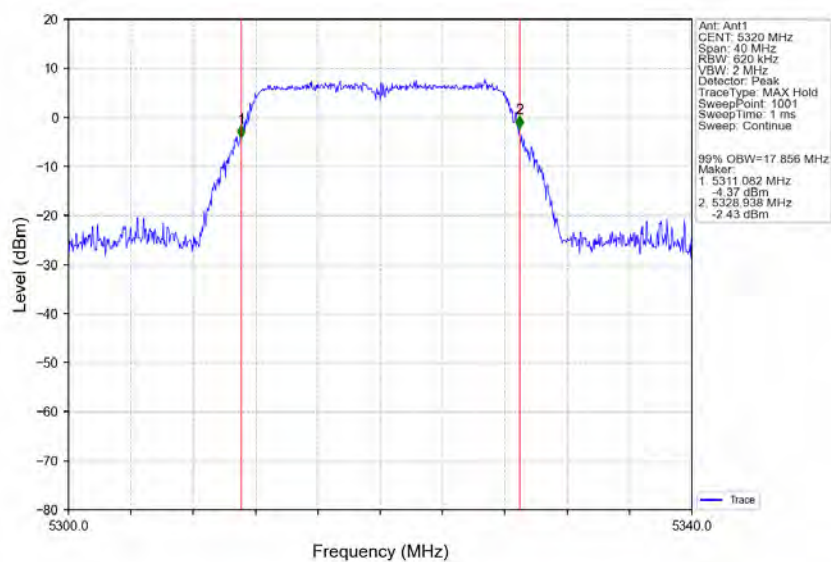
802.11a LCH 5260MHz Ant1 NTN



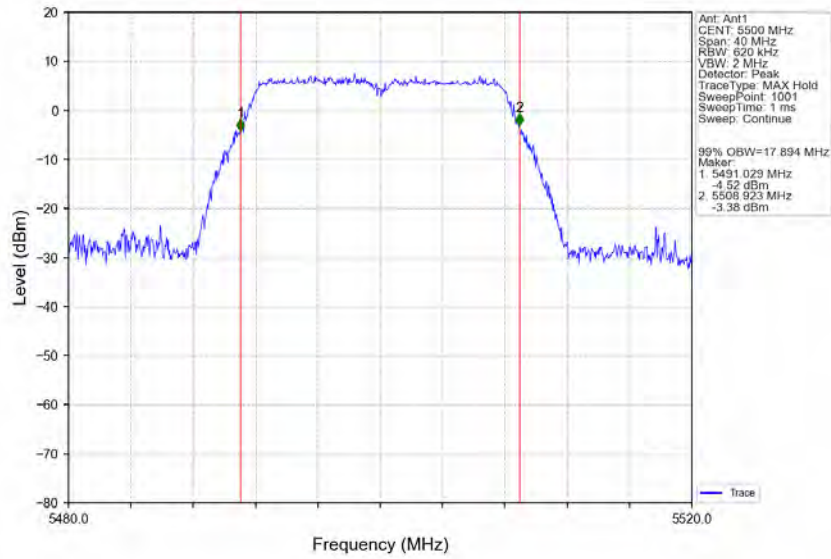
802.11a MCH 5300MHz Ant1 NTN



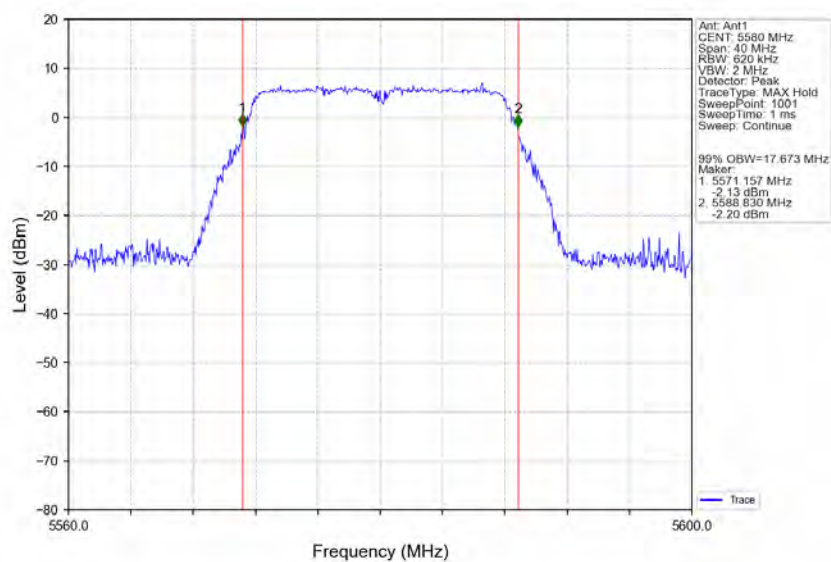
802.11a HCH 5320MHz Ant1 NTN



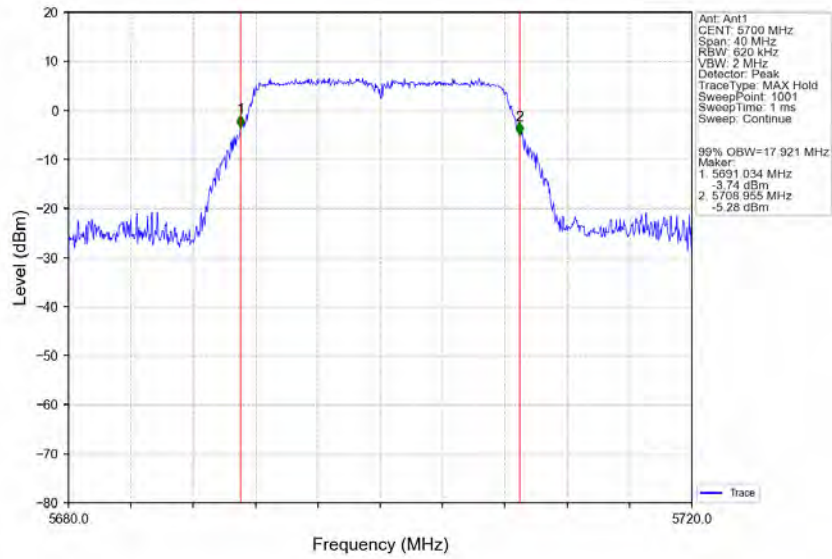
802.11a LCH 5500MHz Ant1 NTN



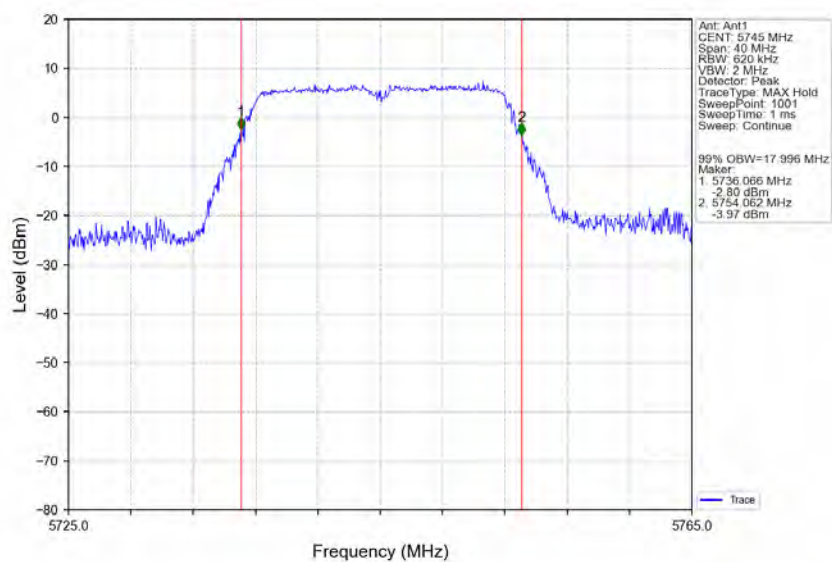
802.11a MCH 5580MHz Ant1 NTN



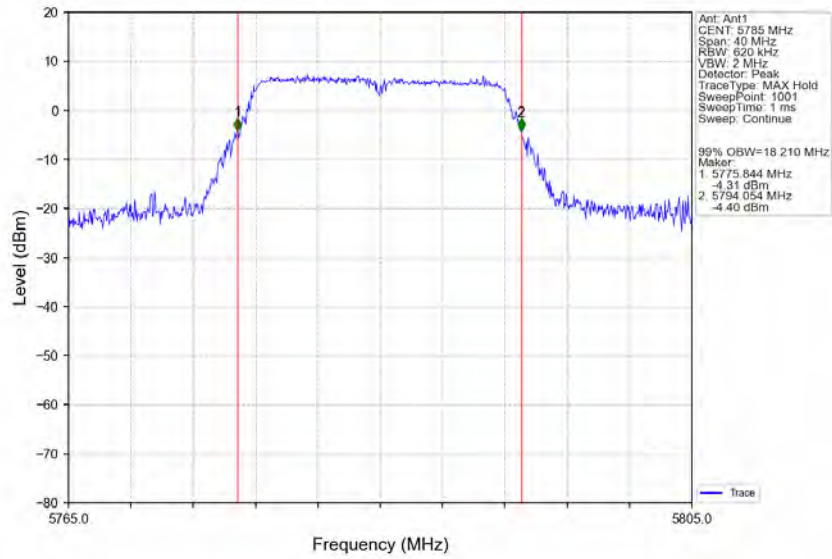
802.11a HCH 5700MHz Ant1 NTN



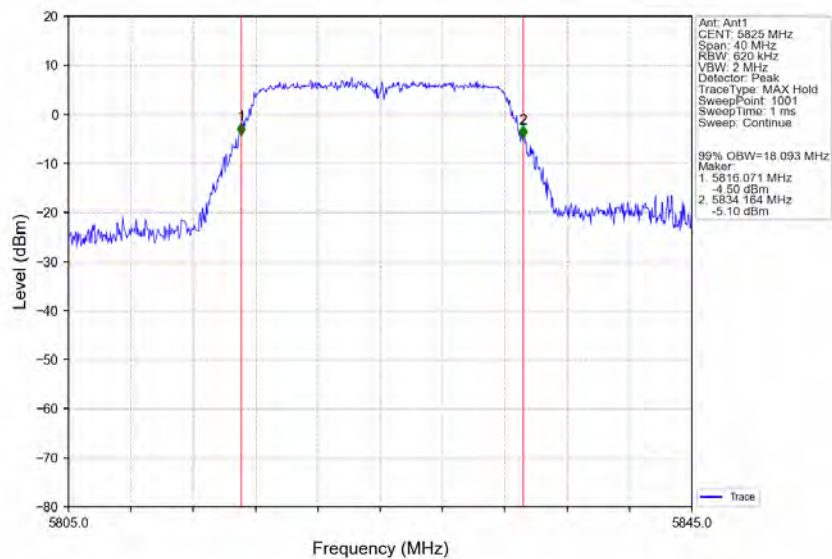
802.11a LCH 5745MHz Ant1 NTN



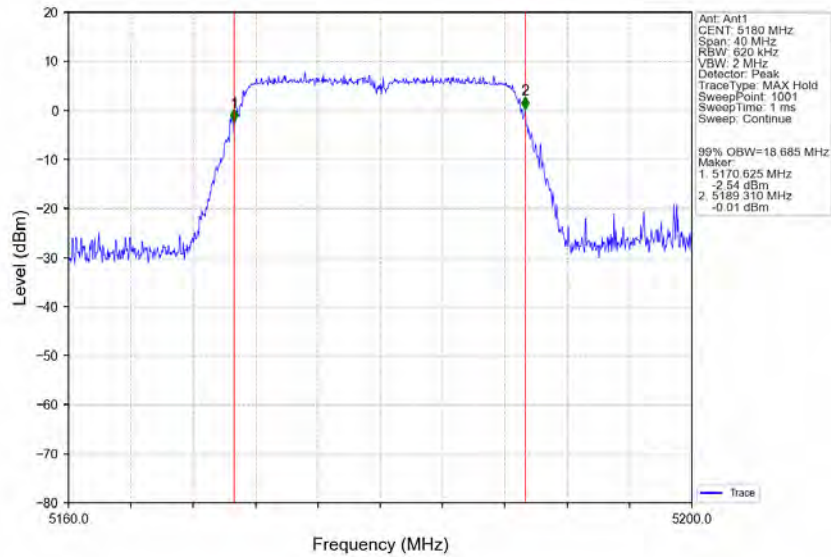
802.11a MCH 5785MHz Ant1 NTN



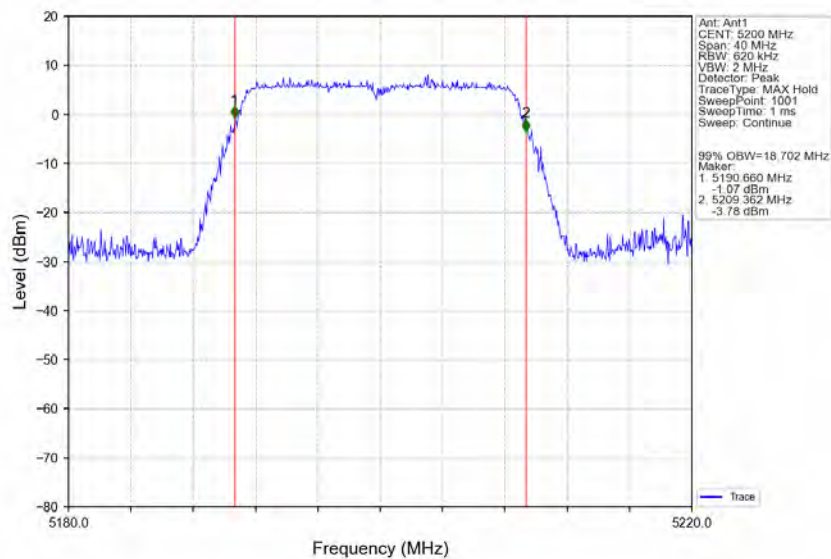
802.11a HCH 5825MHz Ant1 NTN



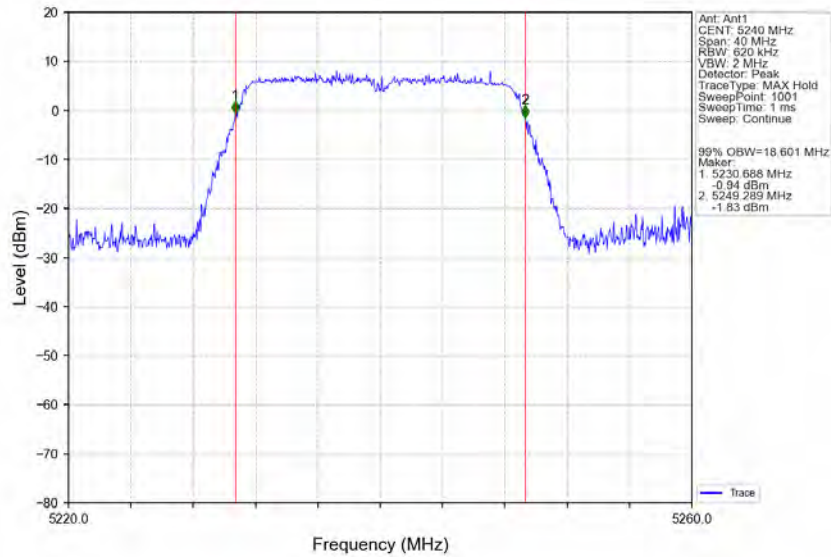
802.11ac(VHT20) LCH 5180MHz Ant1 NTN



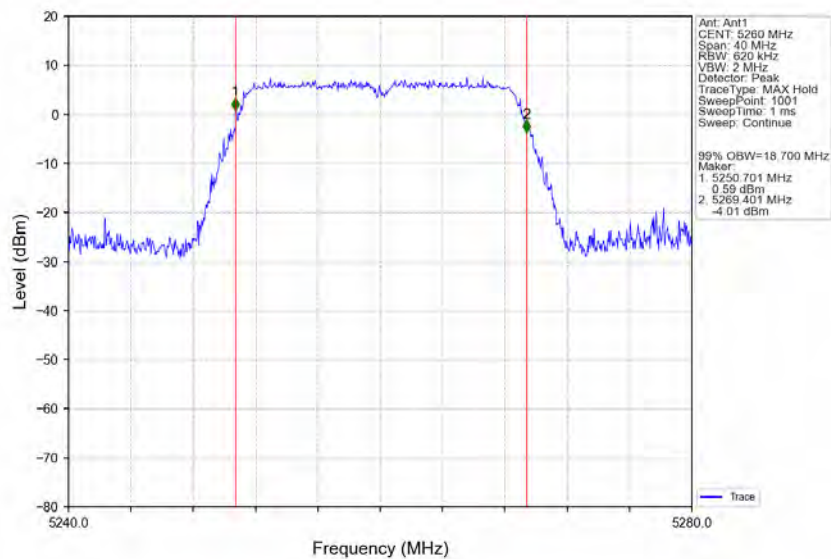
802.11ac(VHT20) MCH 5200MHz Ant1 NTN



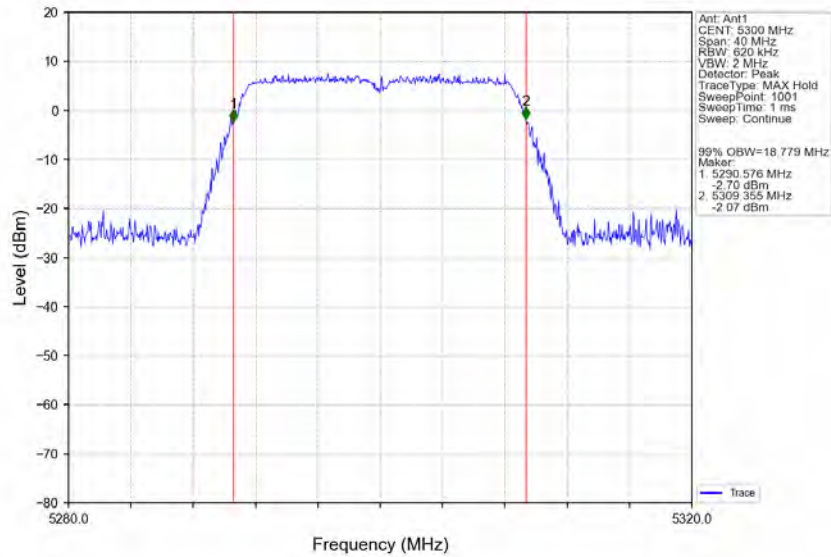
802.11ac(VHT20) HCH 5240MHz Ant1 NTN



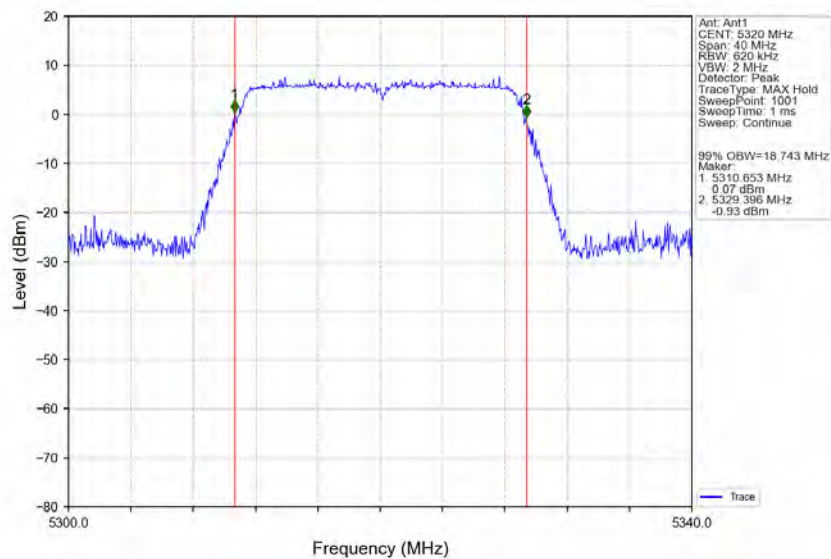
802.11ac(VHT20) LCH 5260MHz Ant1 NTN



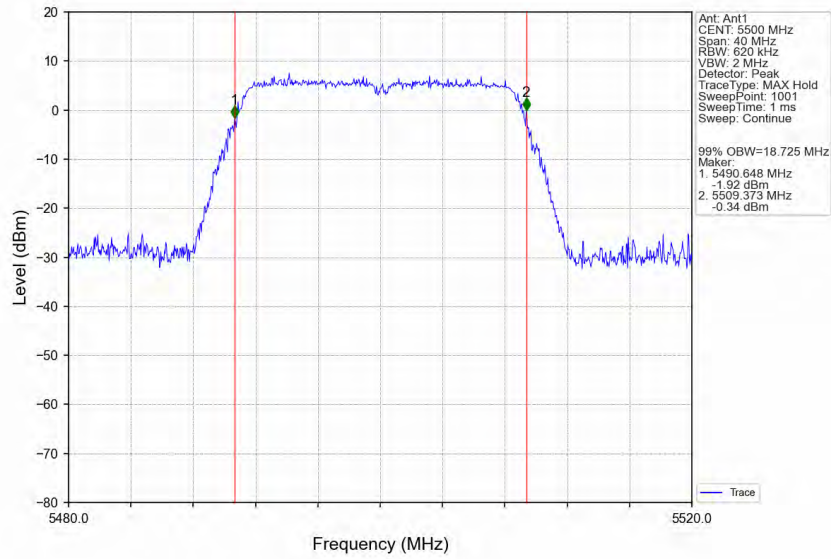
802.11ac(VHT20) MCH 5300MHz Ant1 NTN



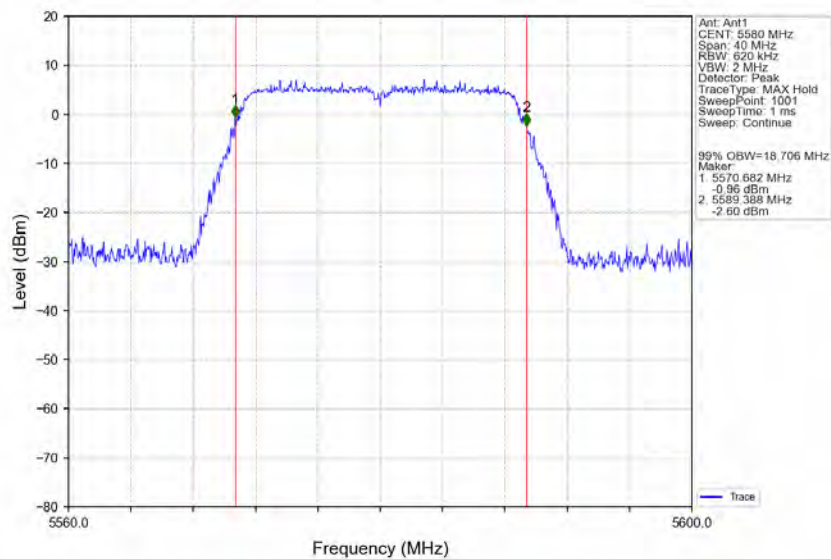
802.11ac(VHT20) HCH 5320MHz Ant1 NTN



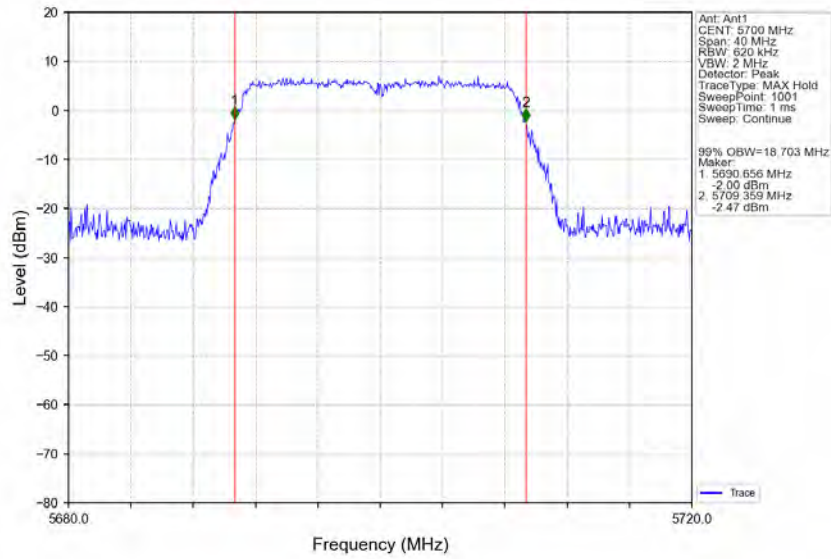
802.11ac(VHT20) LCH 5500MHz Ant1 NTN



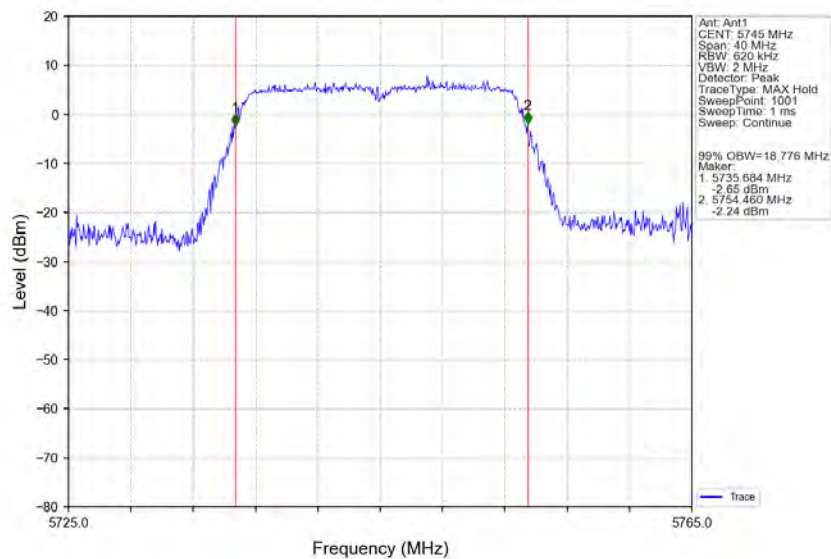
802.11ac(VHT20) MCH 5580MHz Ant1 NTN



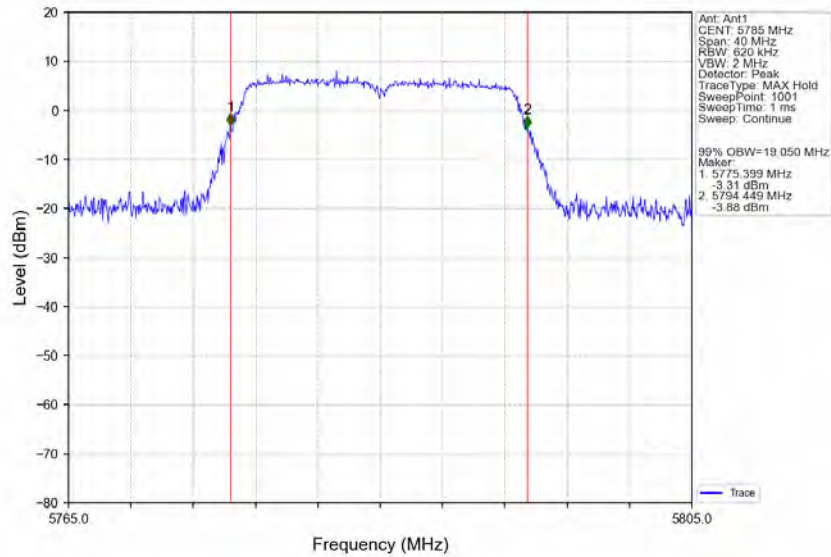
802.11ac(VHT20) HCH 5700MHz Ant1 NTN



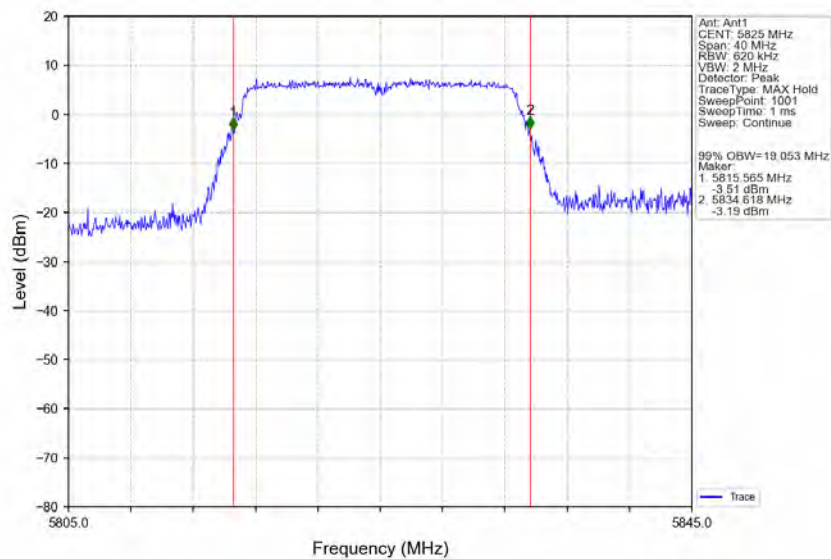
802.11ac(VHT20) LCH 5745MHz Ant1 NTN



802.11ac(VHT20) MCH 5785MHz Ant1 NTN

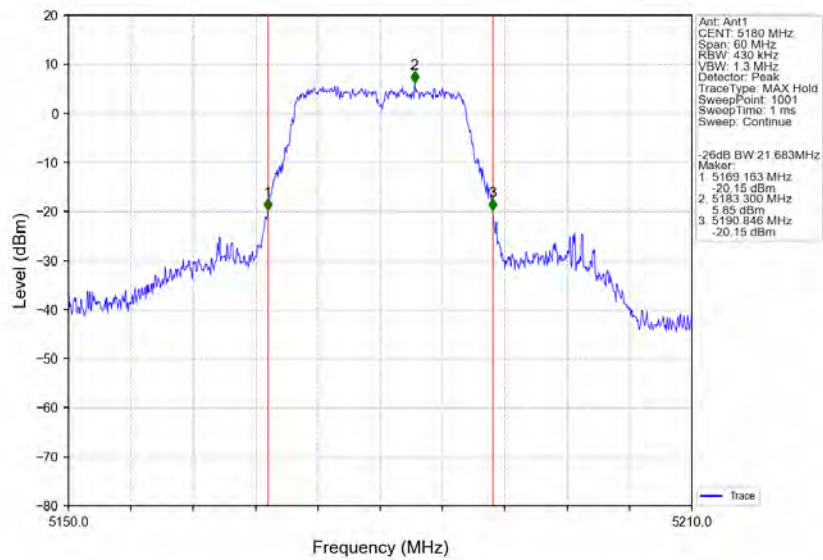


802.11ac(VHT20) HCH 5825MHz Ant1 NTN

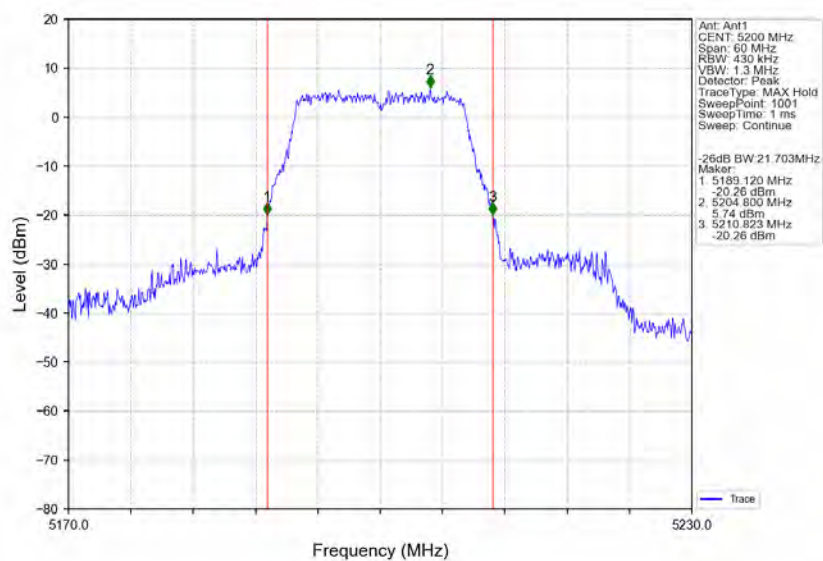


2.2.2 26dB BW

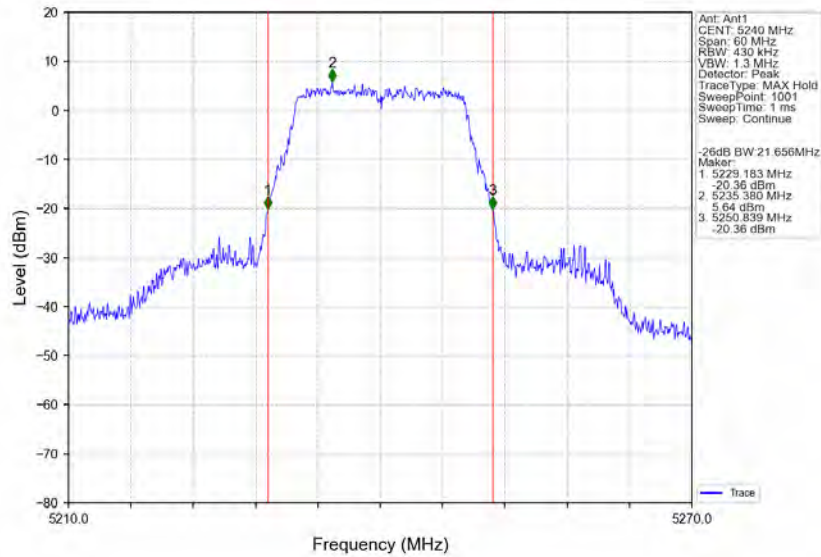
802.11a_LCH_5180MHz_Ant1_NTNV



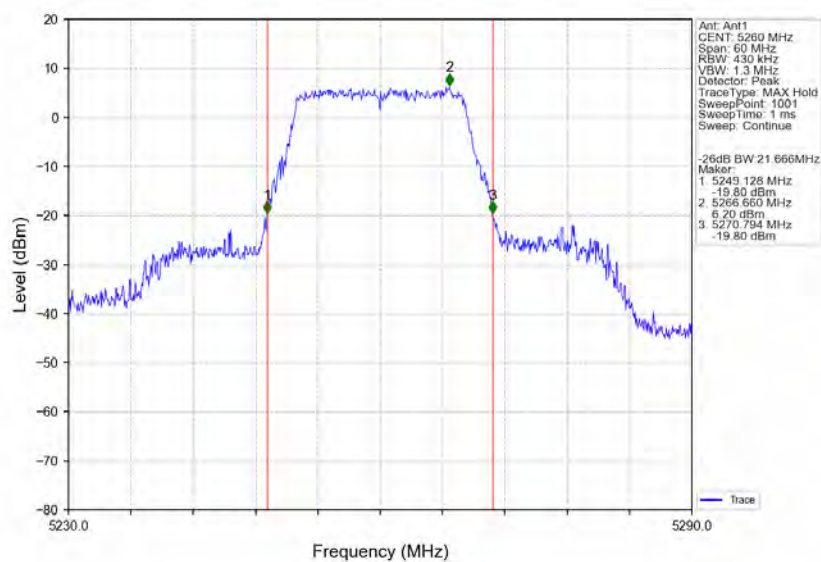
802.11a_MCH_5200MHz_Ant1_NTNV



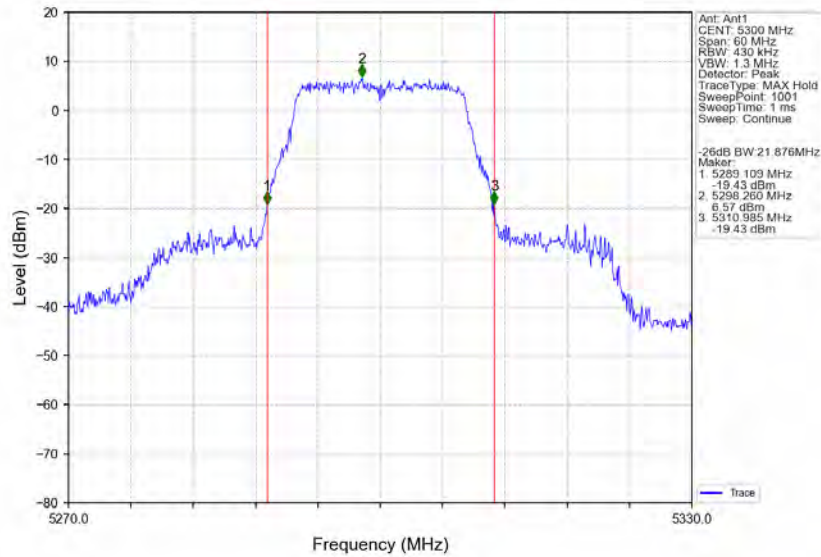
802.11a HCH 5240MHz Ant1 NTN



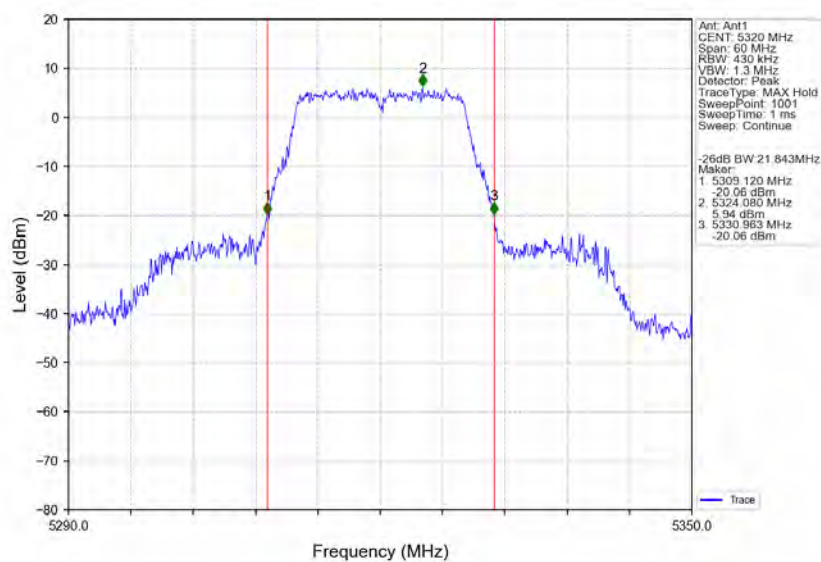
802.11a LCH 5260MHz Ant1 NTN



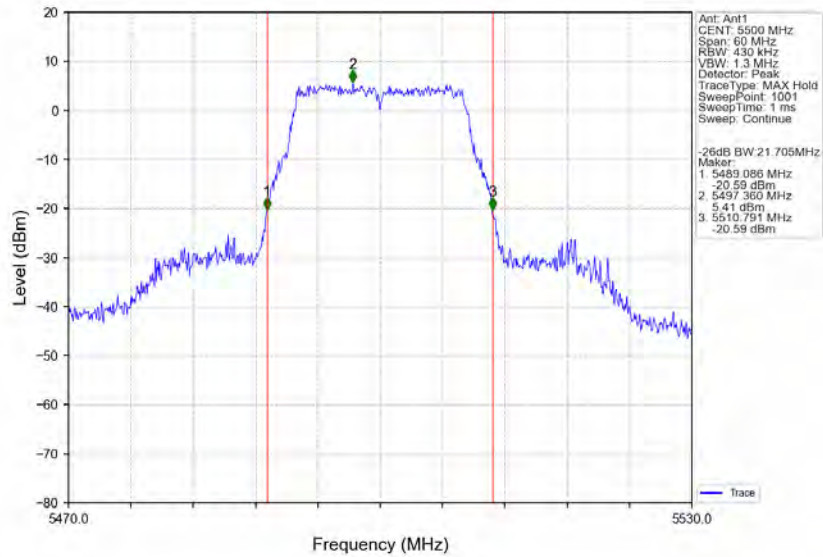
802.11a MCH 5300MHz Ant1 NTN



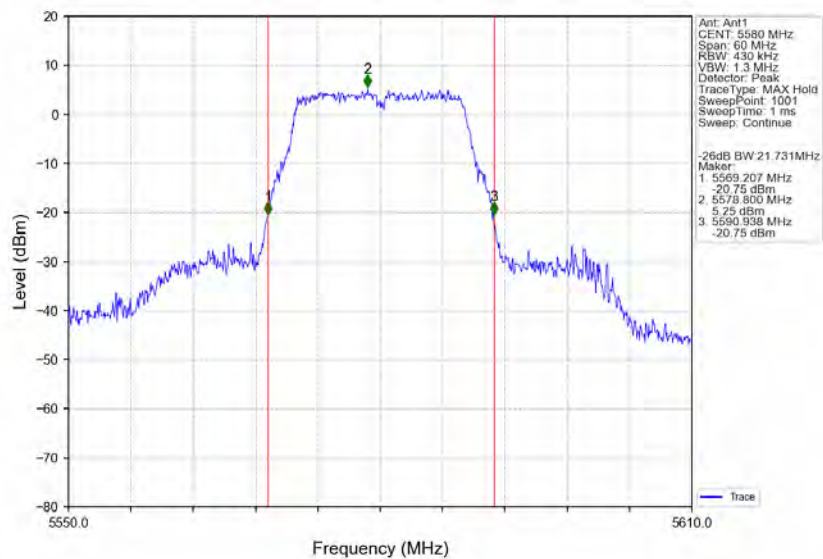
802.11a HCH 5320MHz Ant1 NTN



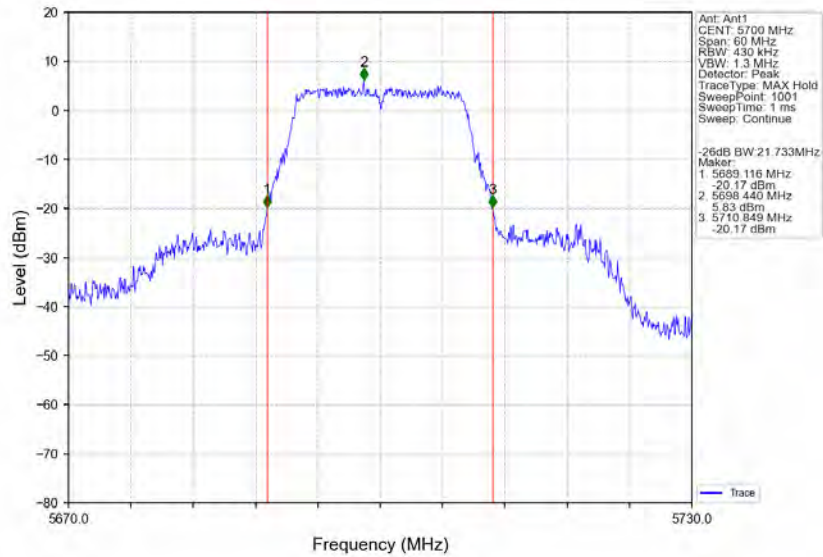
802.11a LCH 5500MHz Ant1 NTN



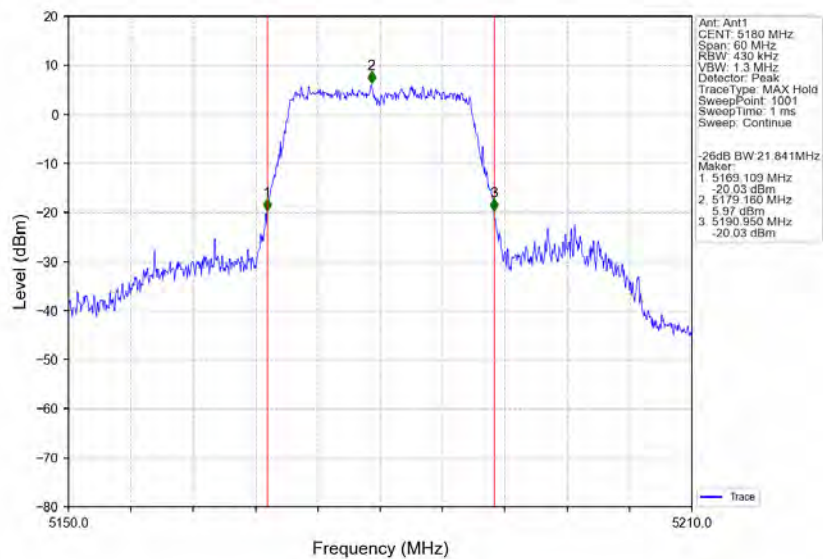
802.11a MCH 5580MHz Ant1 NTN



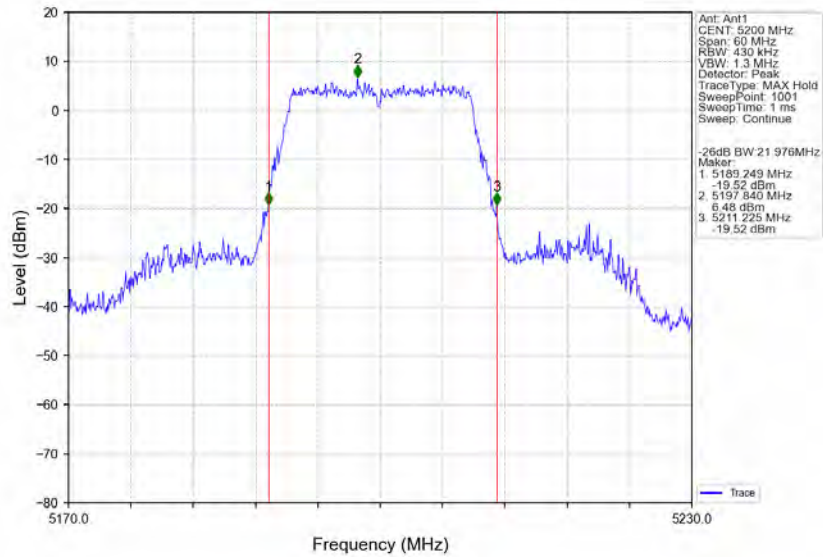
802.11a_HCH_5700MHz_Ant1_NTNV



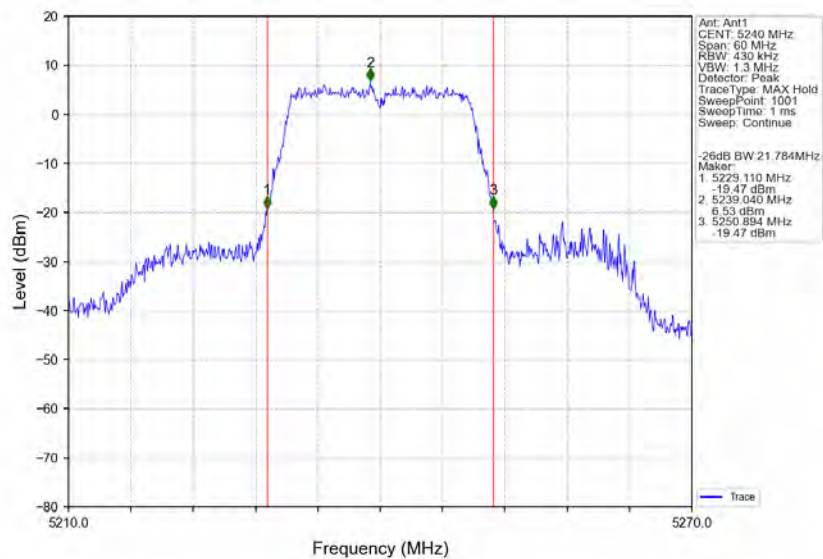
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



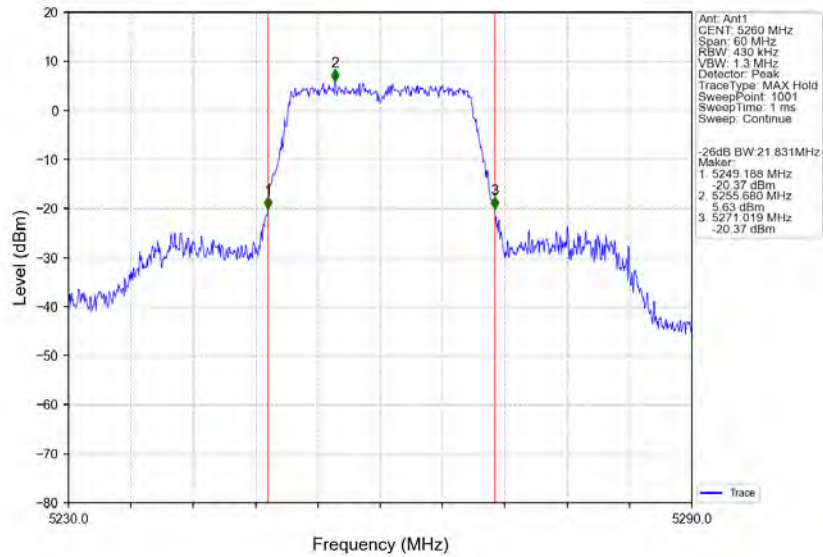
802.11ac(VHT20) MCH 5200MHz Ant1 NTN



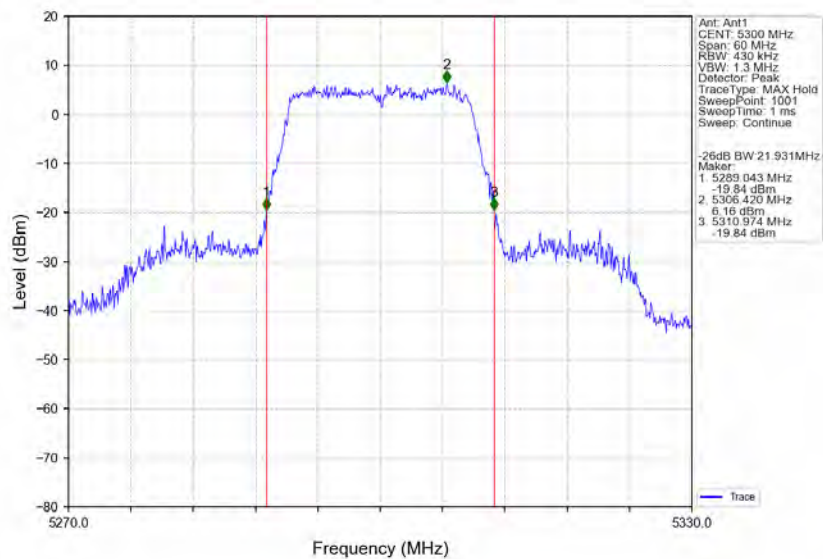
802.11ac(VHT20) HCH 5240MHz Ant1 NTN



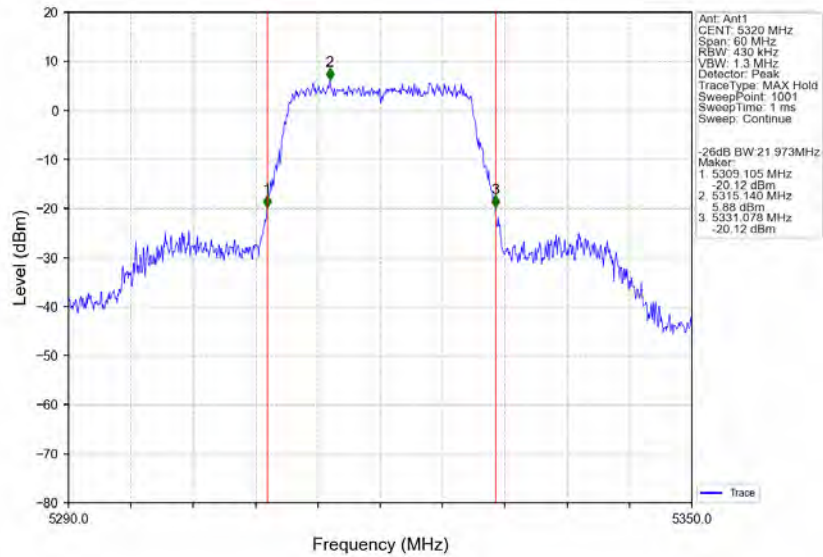
802.11ac(VHT20) LCH 5260MHz Ant1 NTN



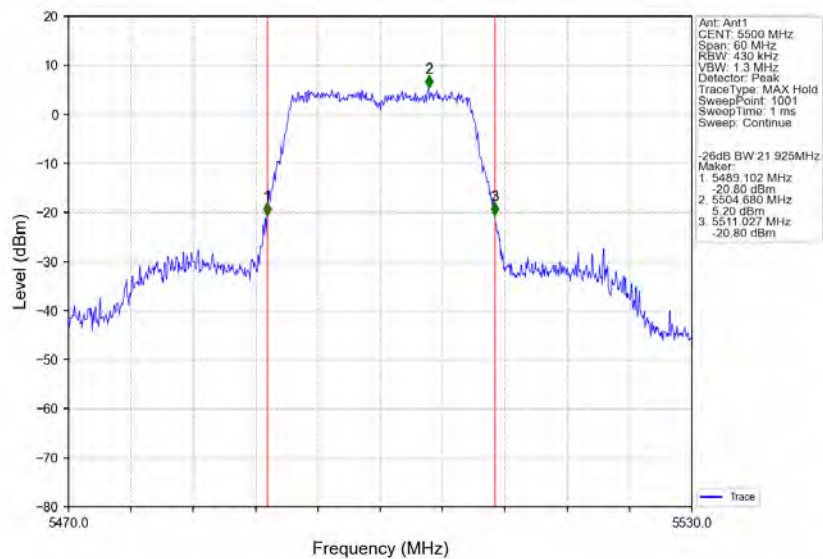
802.11ac(VHT20) MCH 5300MHz Ant1 NTN



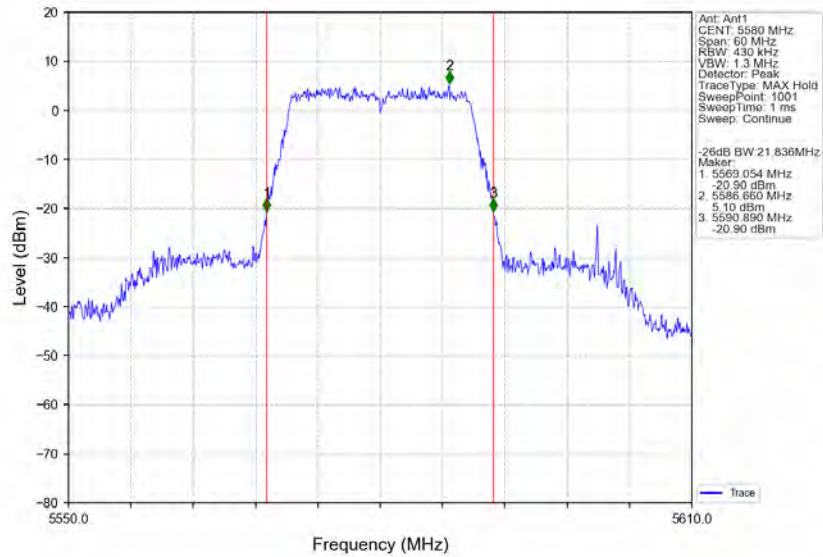
802.11ac(VHT20) HCH 5320MHz Ant1 NTNV



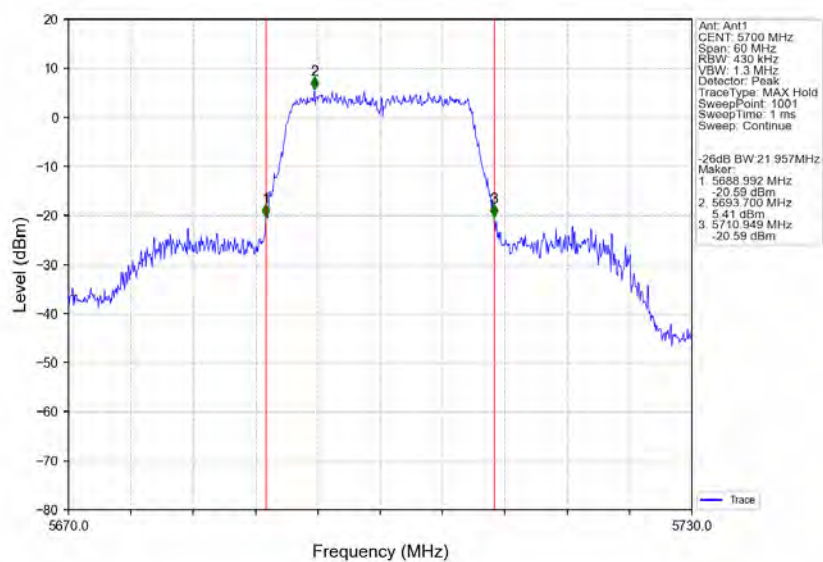
802.11ac(VHT20) LCH 5500MHz Ant1 NTNV



802.11ac(VHT20) MCH 5580MHz Ant1 NTN

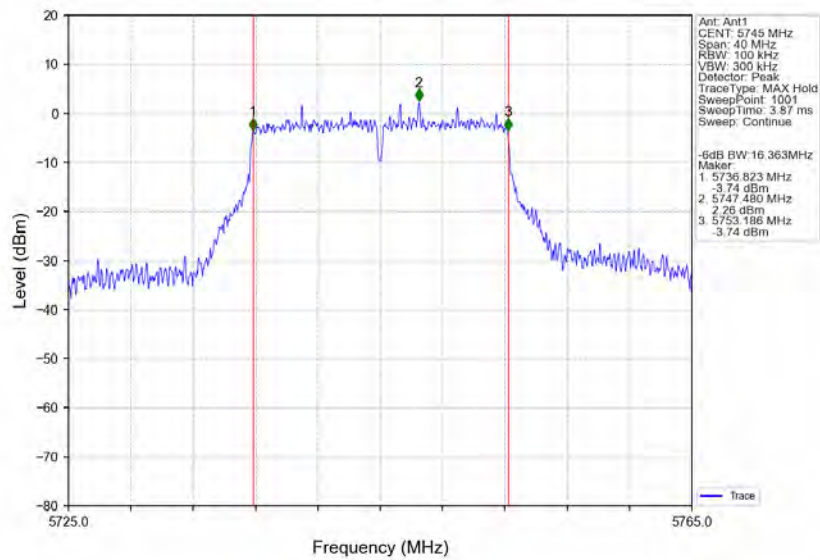


802.11ac(VHT20) HCH 5700MHz Ant1 NTN

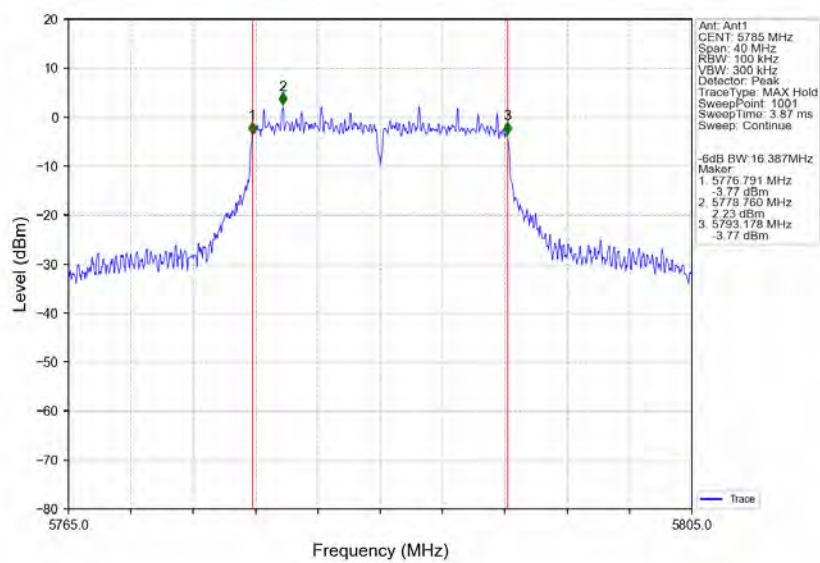


2.2.3 6dB BW

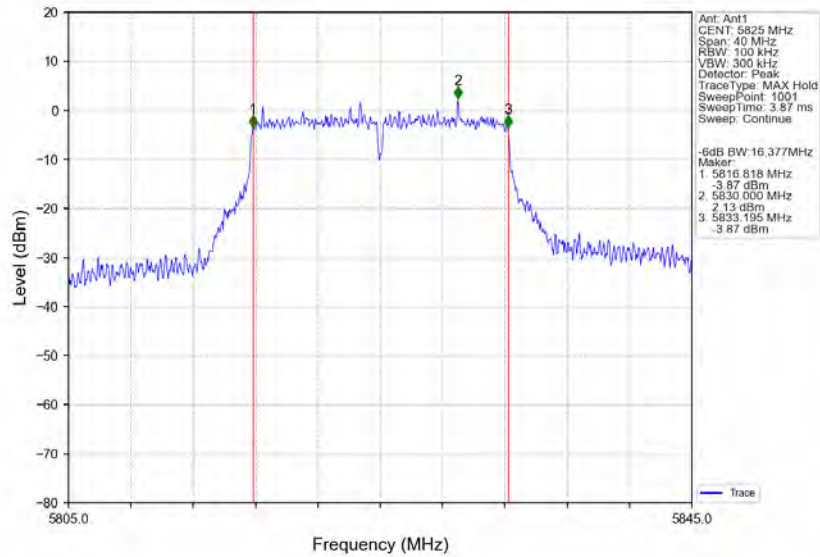
802.11a_LCH_5745MHz_Ant1_NTNV



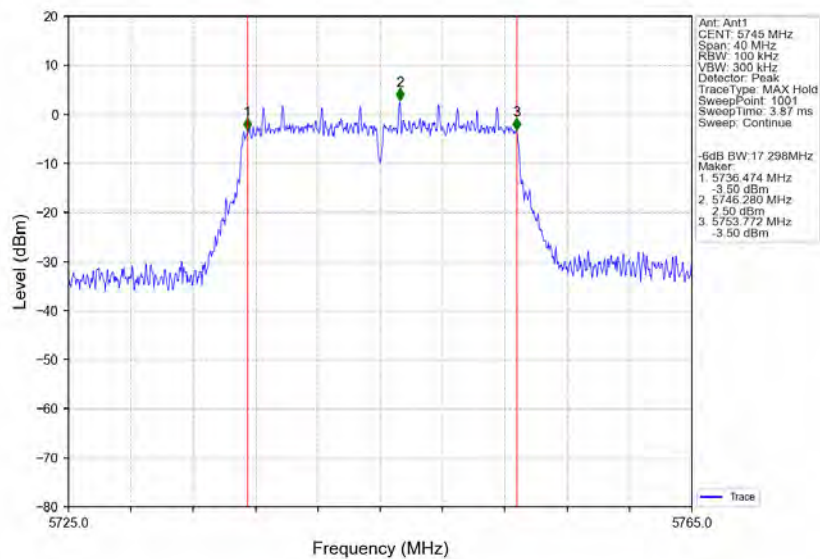
802.11a_MCH_5785MHz_Ant1_NTNV



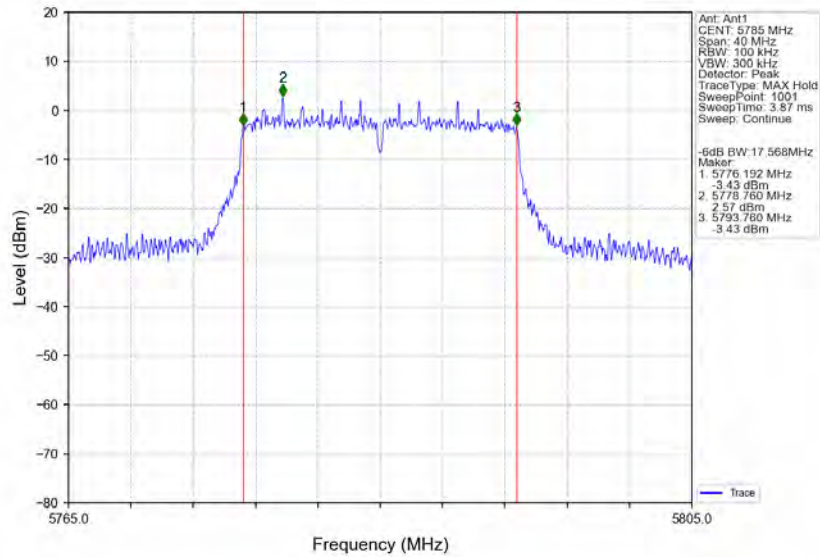
802.11a_HCH_5825MHz_Ant1_NTNV



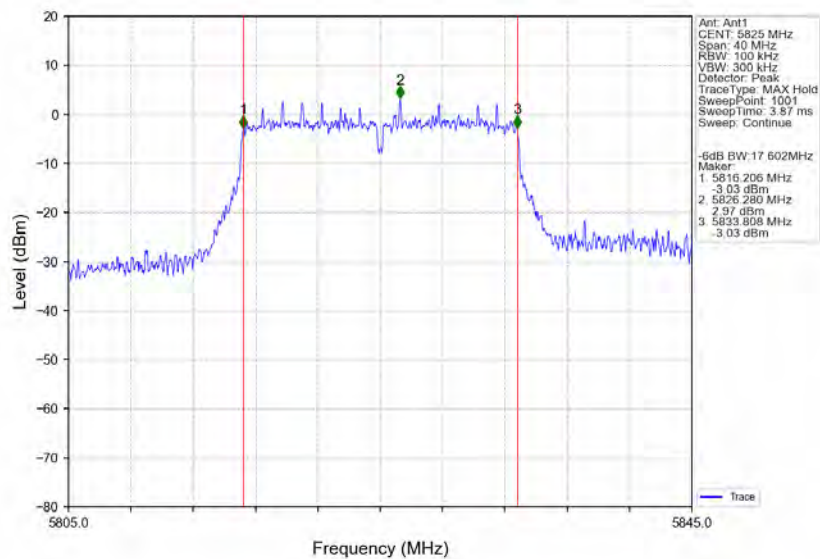
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



802.11ac(VHT20) MCH 5785MHz Ant1 NTN



802.11ac(VHT20) HCH 5825MHz Ant1 NTN



3. Maximum Conducted Output Power

3.1 Test Result

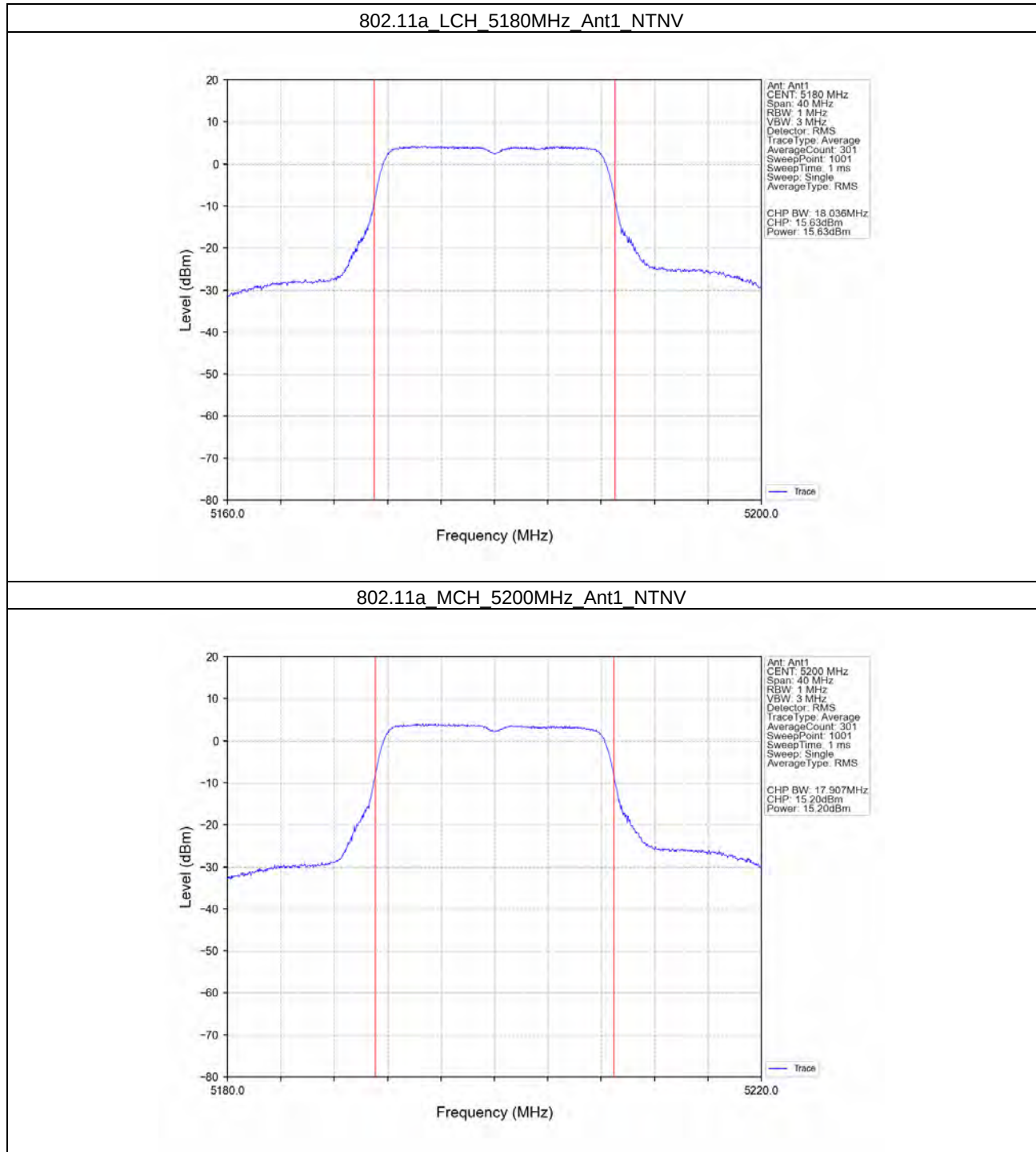
3.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11a	SISO	5180	15.63	≤ 23.98	Pass
		5200	15.20	≤ 23.98	Pass
		5240	16.02	≤ 23.98	Pass
		5260	16.24	≤ 23.98	Pass
		5300	16.33	≤ 23.98	Pass
		5320	16.51	≤ 23.98	Pass
		5500	15.38	≤ 23.98	Pass
		5580	15.77	≤ 23.98	Pass
		5700	15.89	≤ 23.98	Pass
		5745	16.73	≤ 30	Pass
		5785	16.92	≤ 30	Pass
		5825	16.25	≤ 30	Pass
802.11ac (VHT20)	SISO	5180	15.55	≤ 23.98	Pass
		5200	15.19	≤ 23.98	Pass
		5240	15.81	≤ 23.98	Pass
		5260	15.99	≤ 23.98	Pass
		5300	16.05	≤ 23.98	Pass
		5320	15.94	≤ 23.98	Pass
		5500	15.61	≤ 23.98	Pass
		5580	15.86	≤ 23.98	Pass
		5700	16.00	≤ 23.98	Pass
		5745	15.83	≤ 30	Pass
		5785	15.01	≤ 30	Pass
		5825	15.07	≤ 30	Pass

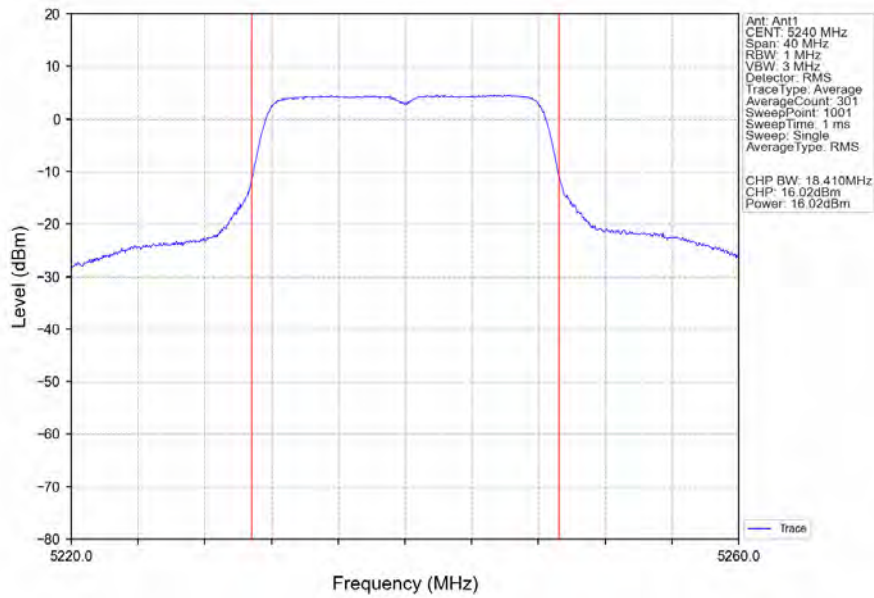
Note1: Antenna Gain:
- Band: 1 Ant1: 2.39dBi;
- Band: 3 Ant1: 2.39dBi;
- Band: 2A Ant1: 2.39dBi;
- Band: 2C Ant1: 2.39dBi;

3.2 Test Graph

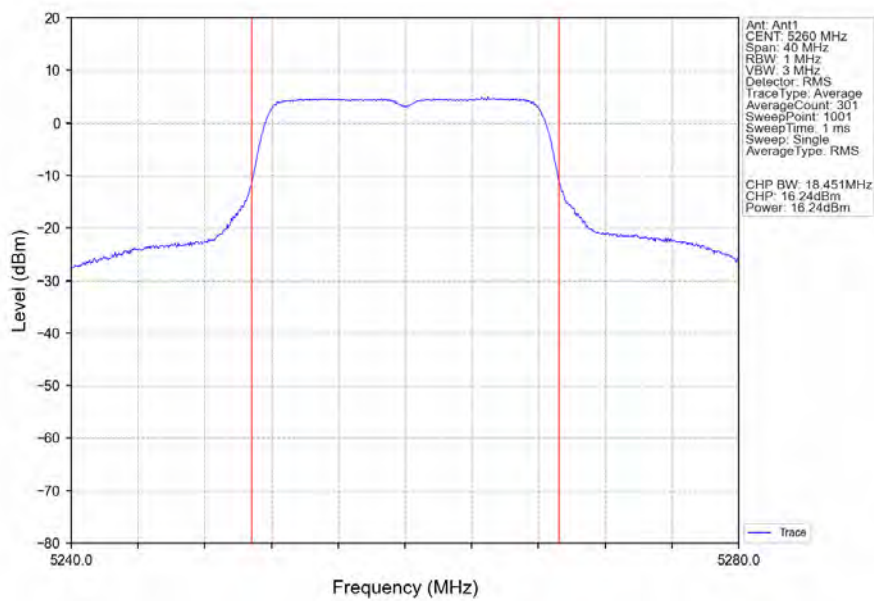
3.2.1 Power



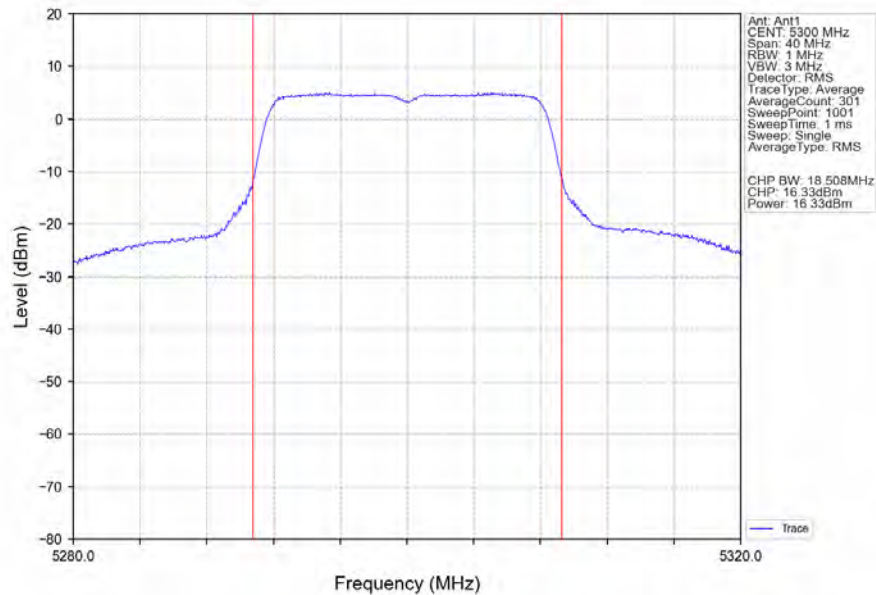
802.11a_HCH_5240MHz_Ant1_NTNV



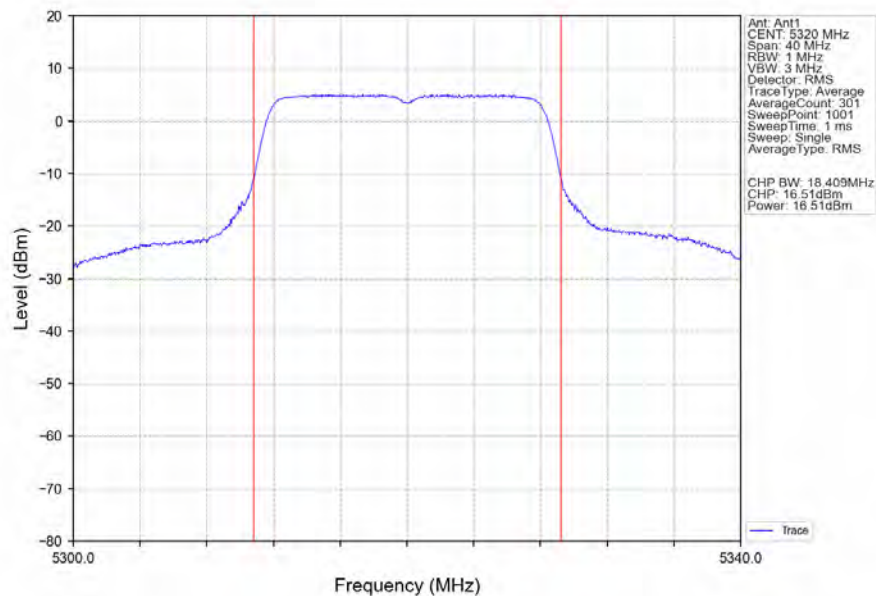
802.11a_LCH_5260MHz_Ant1_NTNV



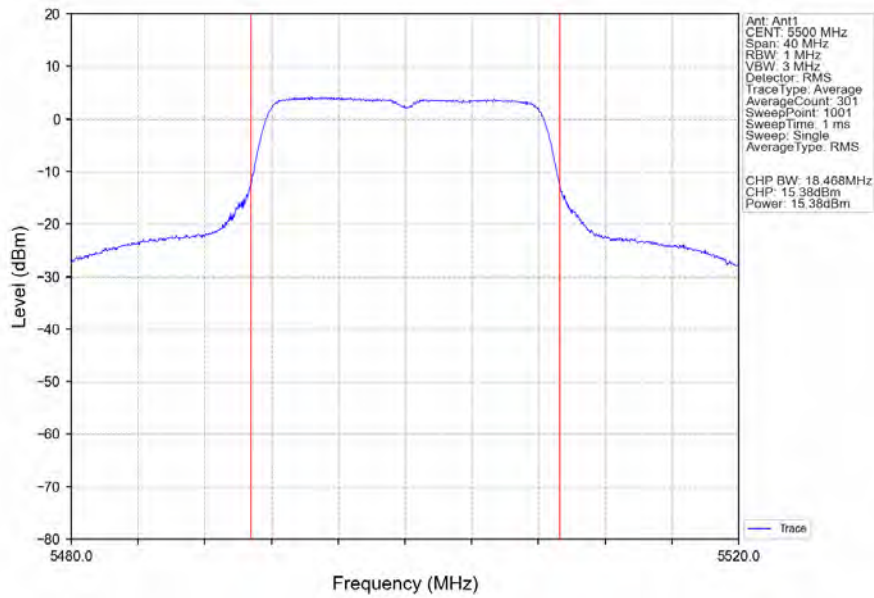
802.11a_MCH_5300MHz_Ant1_NTNV



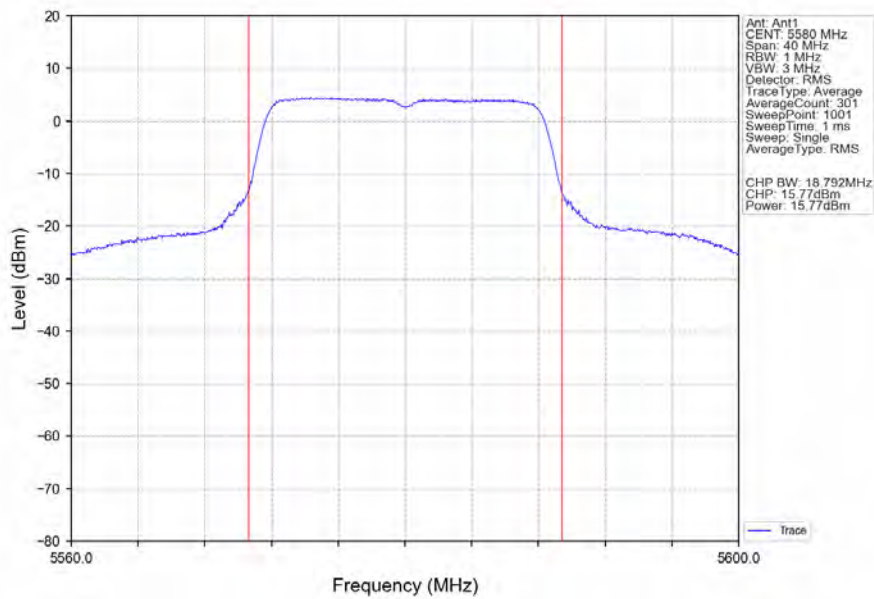
802.11a_HCH_5320MHz_Ant1_NTNV



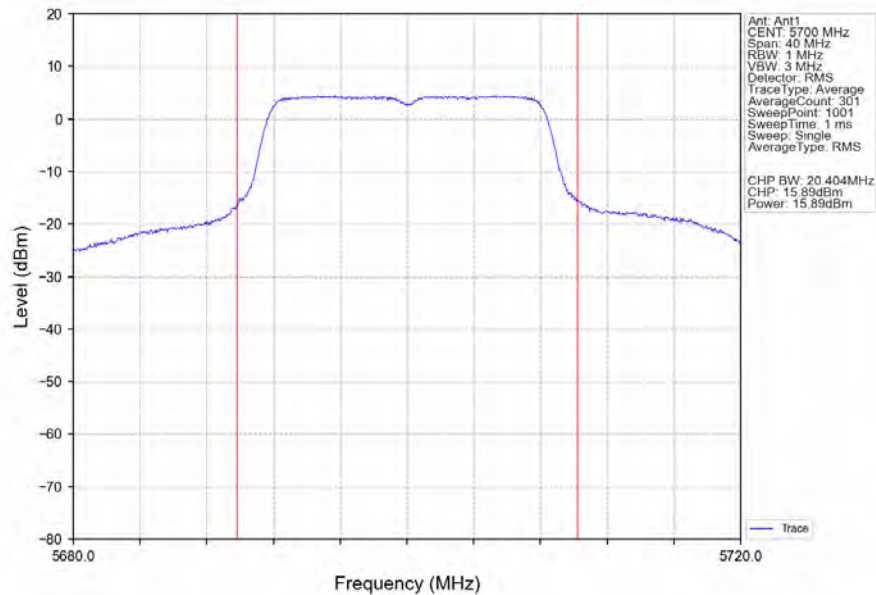
802.11a_LCH_5500MHz_Ant1_NTNV



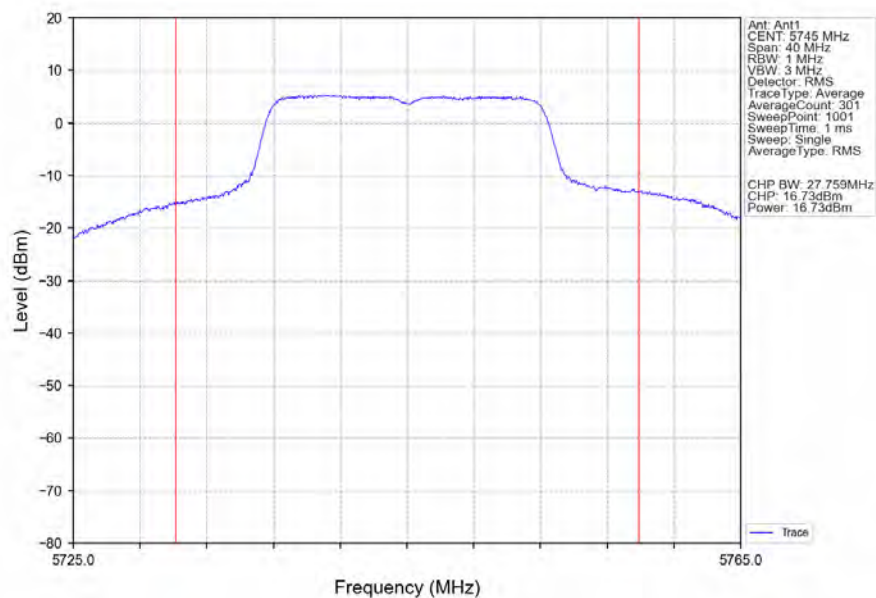
802.11a_MCH_5580MHz_Ant1_NTNV



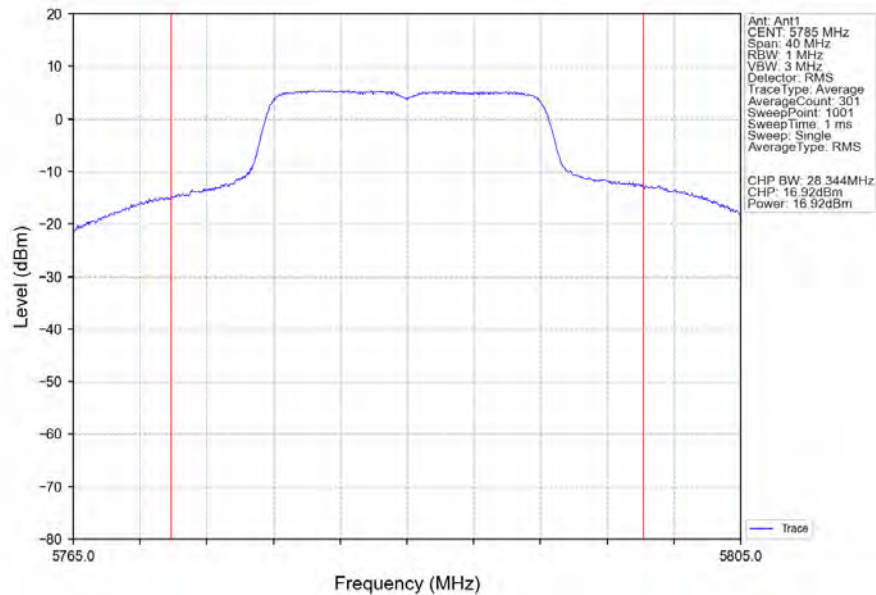
802.11a_HCH_5700MHz_Ant1_NTNV



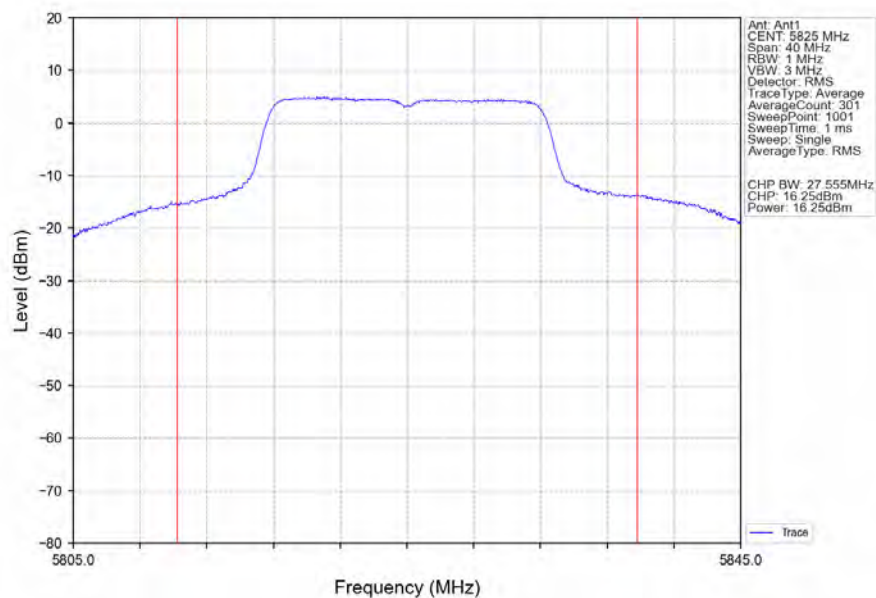
802.11a_LCH_5745MHz_Ant1_NTNV



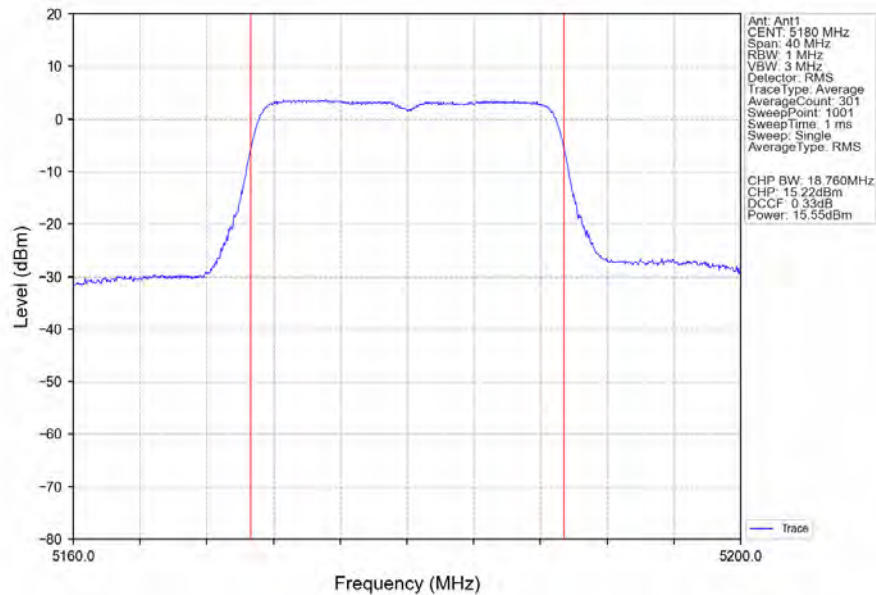
802.11a_MCH_5785MHz_Ant1_NTNV



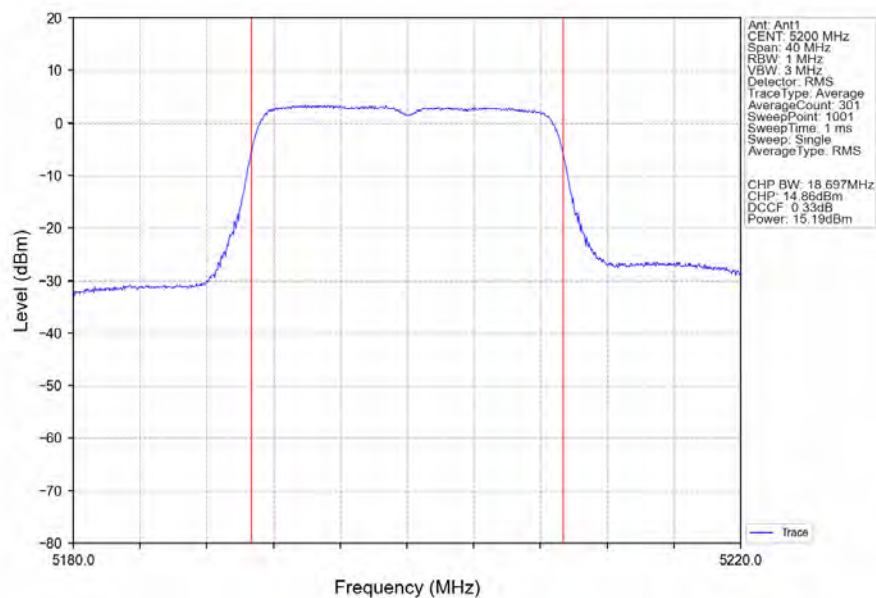
802.11a_HCH_5825MHz_Ant1_NTNV



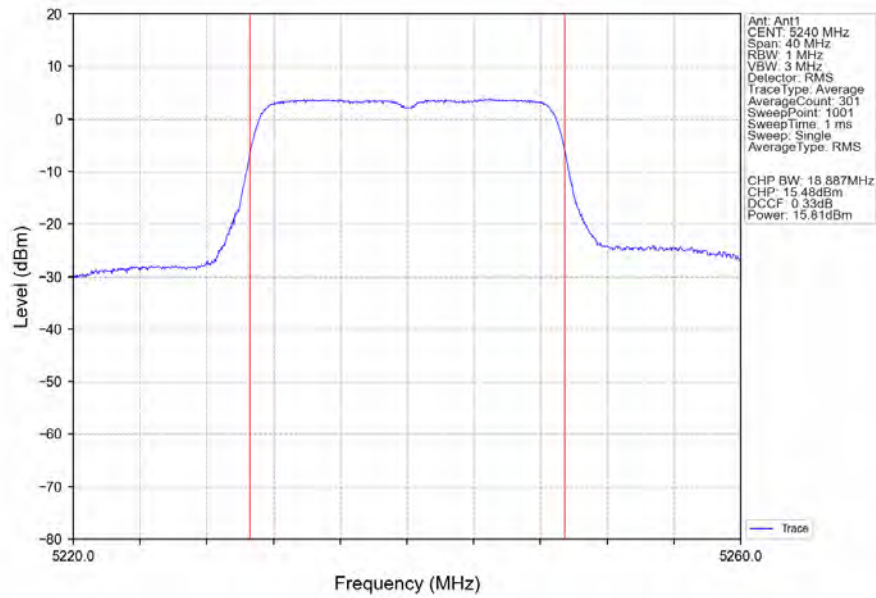
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



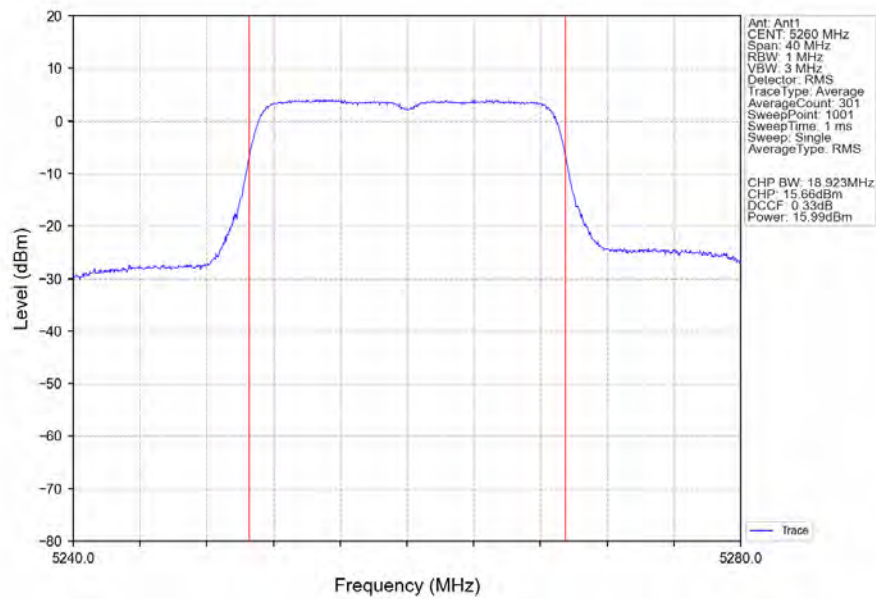
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



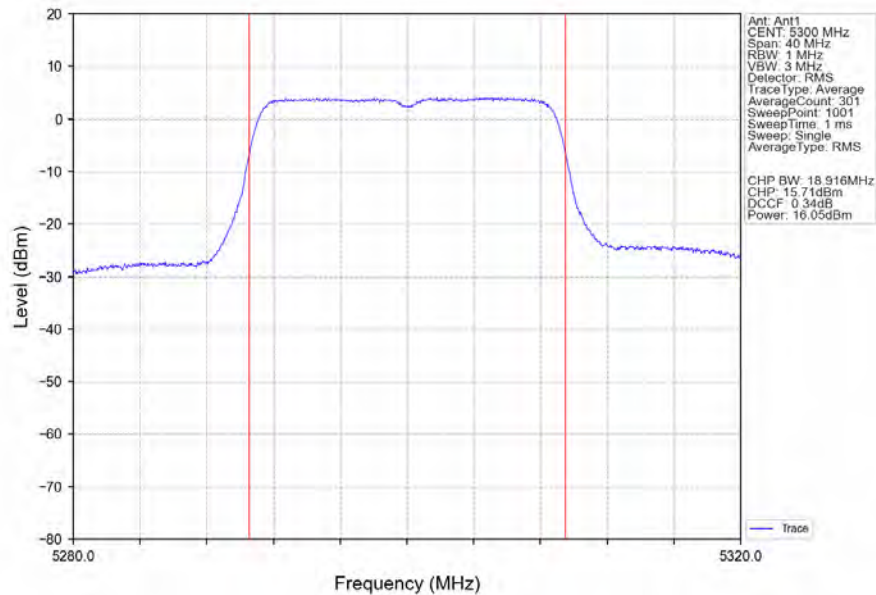
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



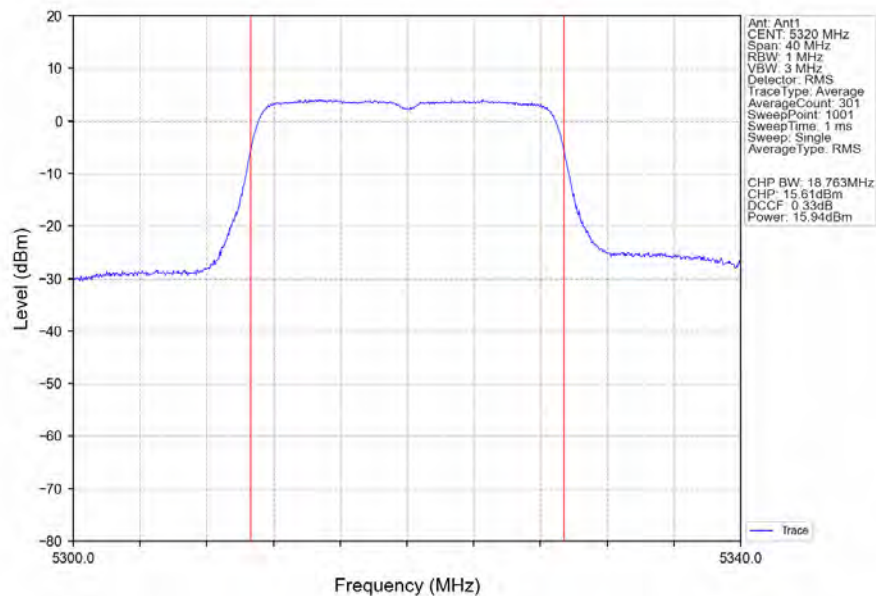
802.11ac(VHT20)_LCH_5260MHz_Ant1_NTNV



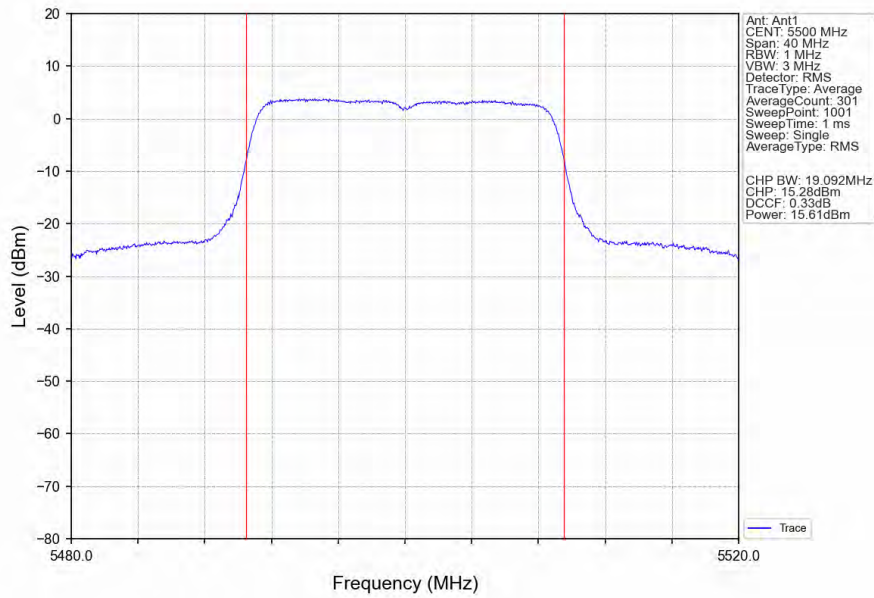
802.11ac(VHT20) MCH 5300MHz Ant1 NTN



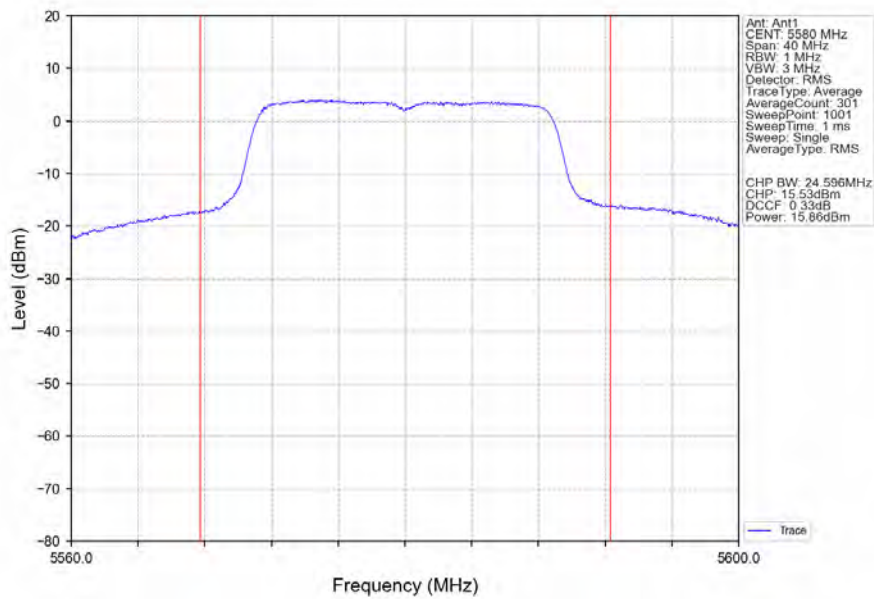
802.11ac(VHT20) HCH 5320MHz Ant1 NTN



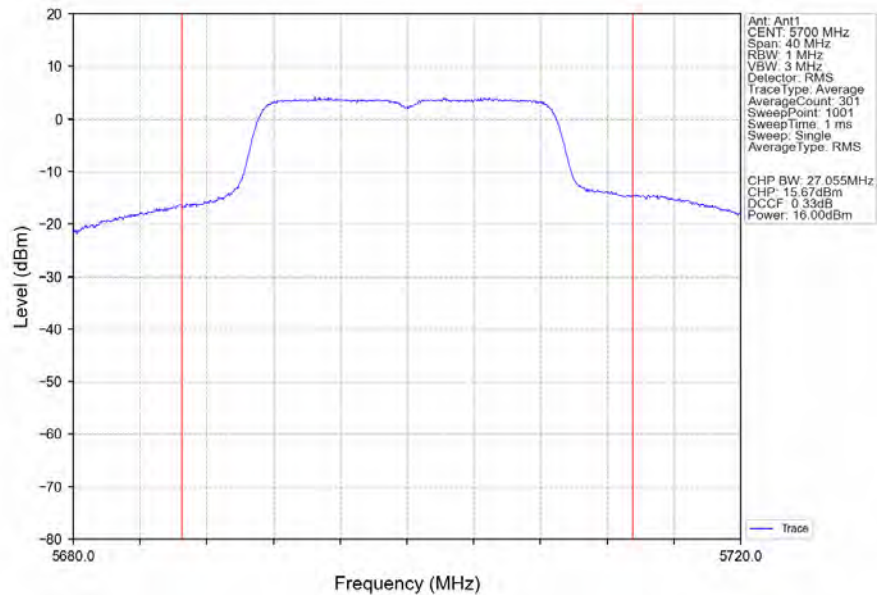
802.11ac(VHT20)_LCH_5500MHz_Ant1_NTNV



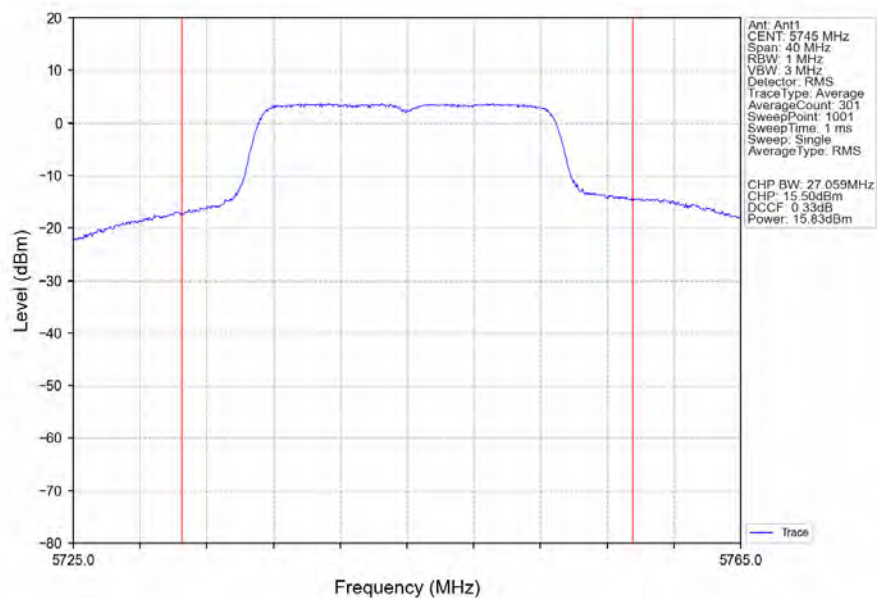
802.11ac(VHT20)_MCH_5580MHz_Ant1_NTNV



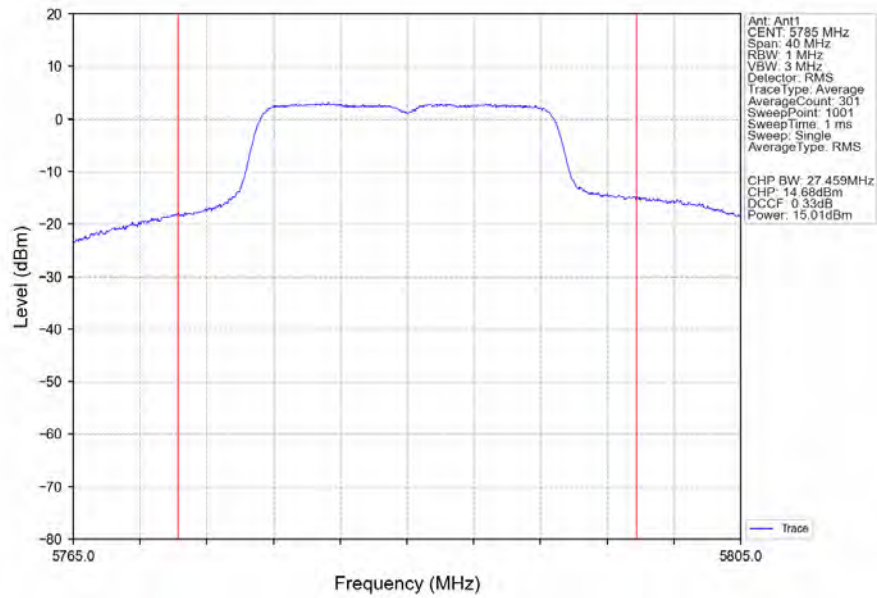
802.11ac(VHT20)_HCH_5700MHz_Ant1_NTNV



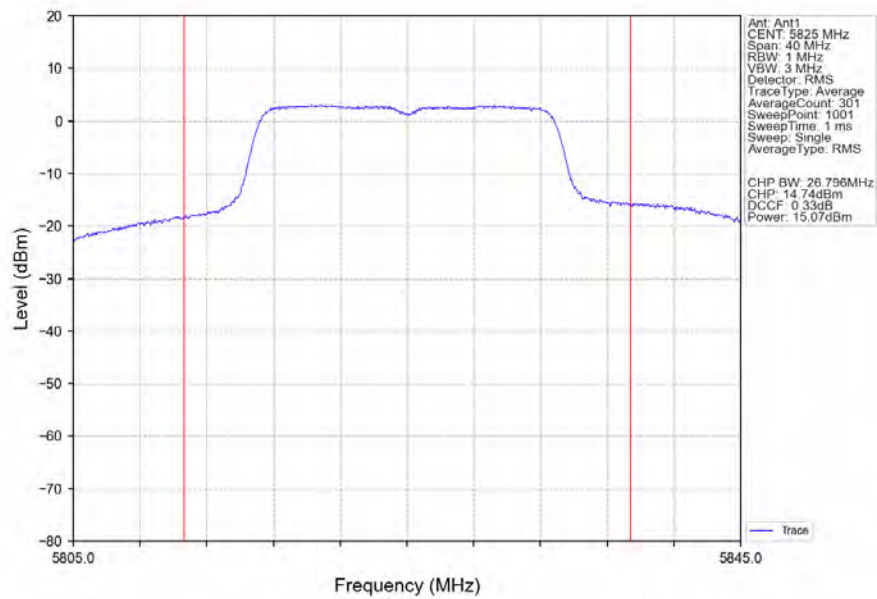
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



4. Maximum Power Spectral Density

4.1 Test Result

4.1.1 PSD

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)		Verdict
			ANT1	Limit	
802.11a	SISO	5180	4.28	<=11	Pass
		5200	4.09	<=11	Pass
		5240	4.67	<=11	Pass
		5260	4.84	<=11	Pass
		5300	5.00	<=11	Pass
		5320	5.30	<=11	Pass
		5500	4.09	<=11	Pass
		5580	4.55	<=11	Pass
		5700	4.55	<=11	Pass
802.11ac (VHT20)	SISO	5180	3.98	<=11	Pass
		5200	3.71	<=11	Pass
		5240	4.38	<=11	Pass
		5260	4.42	<=11	Pass
		5300	4.47	<=11	Pass
		5320	4.31	<=11	Pass
		5500	4.20	<=11	Pass
		5580	4.44	<=11	Pass
		5700	3.97	<=11	Pass
Note1: Antenna Gain: - Band: 1 Ant1: 2.39dBi; - Band: 3 Ant1: 2.39dBi; - Band: 2A Ant1: 2.39dBi; - Band: 2C Ant1: 2.39dBi;					

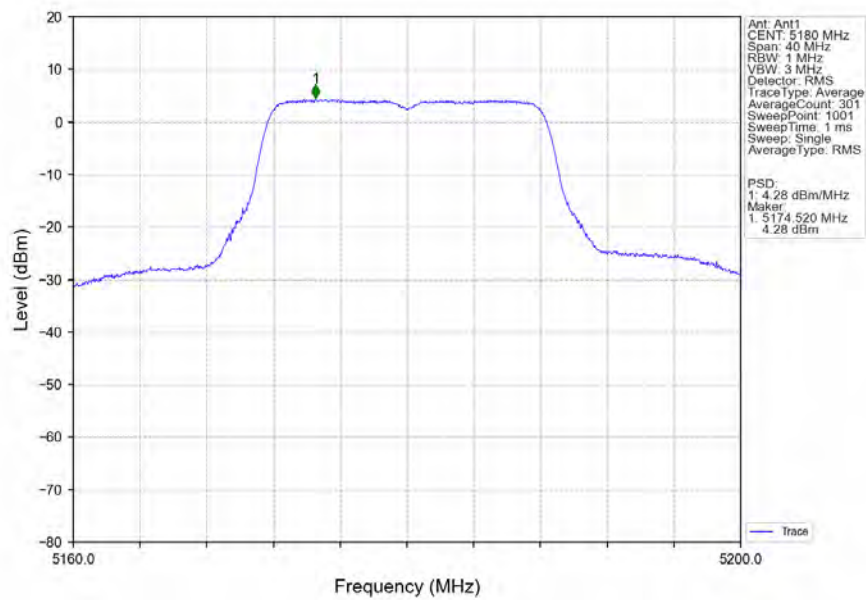
4.1.2 PSD-Band3

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/500kHz)		Verdict
			ANT1	Limit	
802.11a	SISO	5745	2.45	<=30	Pass
		5785	2.78	<=30	Pass
		5825	2.00	<=30	Pass
802.11ac (VHT20)	SISO	5745	1.28	<=30	Pass
		5785	0.47	<=30	Pass
		5825	0.42	<=30	Pass
Note1: Antenna Gain: - Band: 1 Ant1: 2.39dBi; - Band: 3 Ant1: 2.39dBi; - Band: 2A Ant1: 2.39dBi; - Band: 2C Ant1: 2.39dBi;					

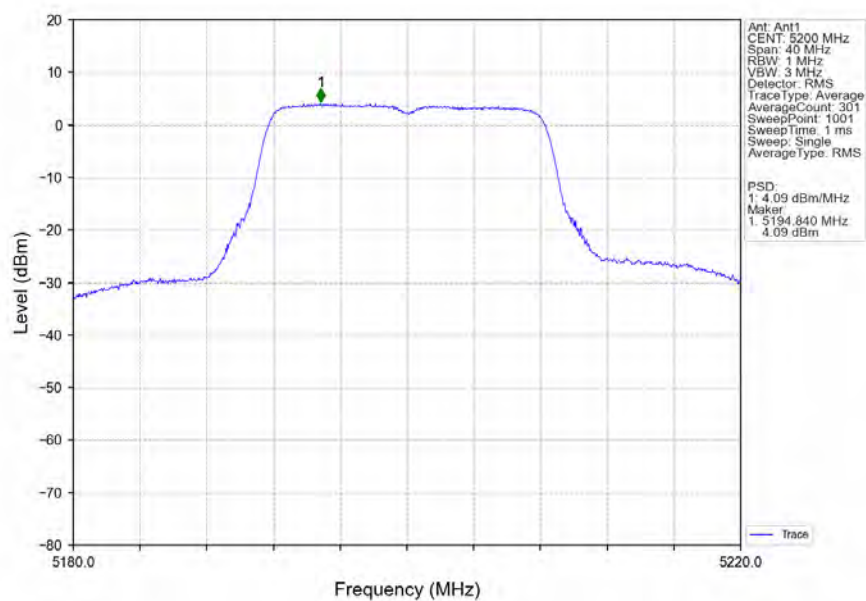
4.2 Test Graph

4.2.1 PSD

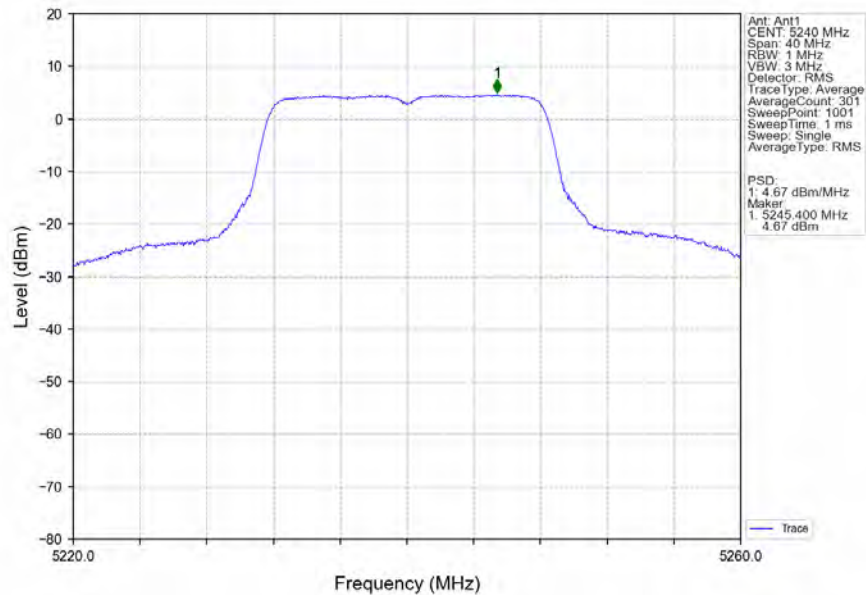
802.11a_LCH_5180MHz_Ant1_NTNV



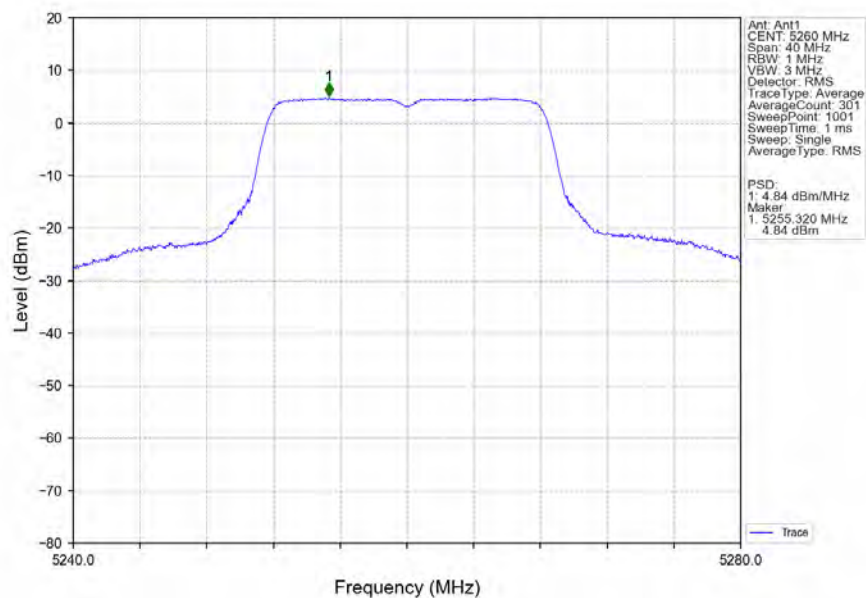
802.11a_MCH_5200MHz_Ant1_NTNV



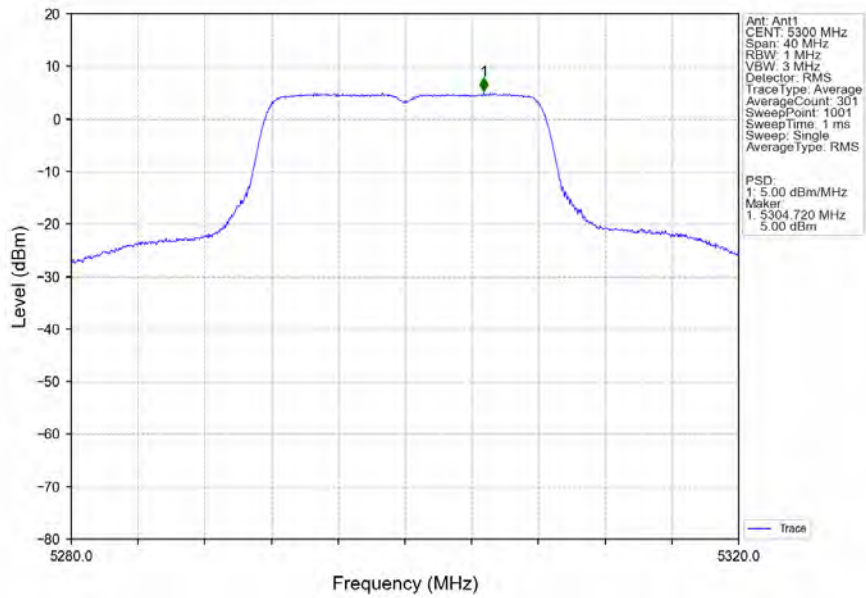
802.11a_HCH_5240MHz_Ant1_NTNV



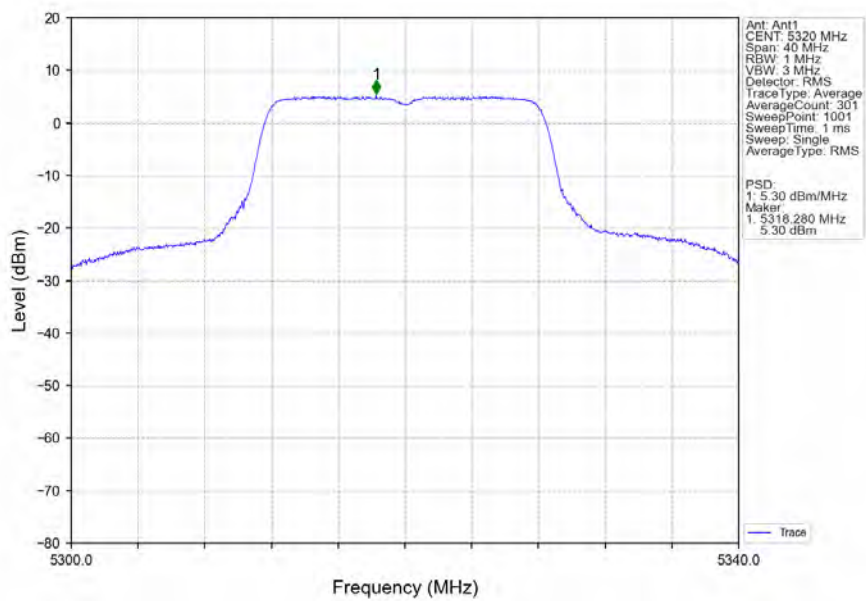
802.11a_LCH_5260MHz_Ant1_NTNV



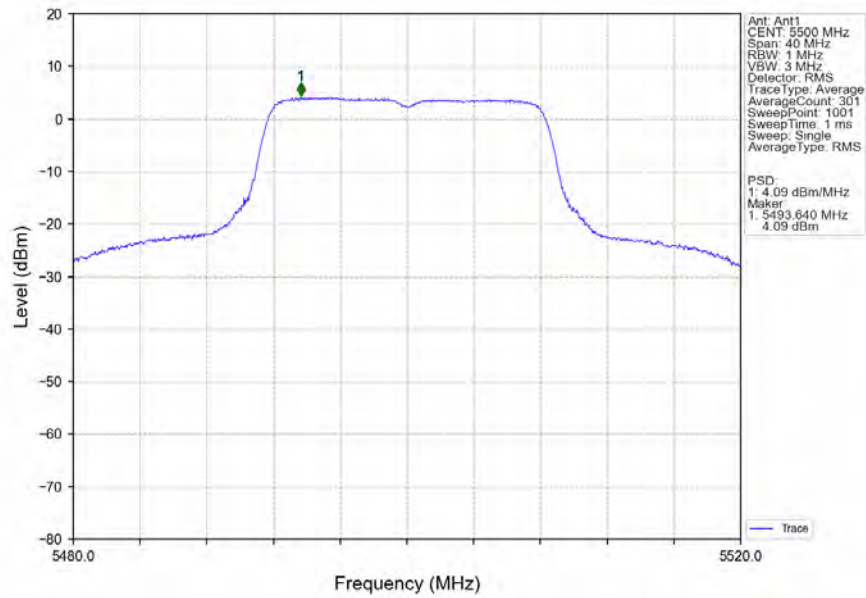
802.11a_MCH_5300MHz_Ant1_NTNV



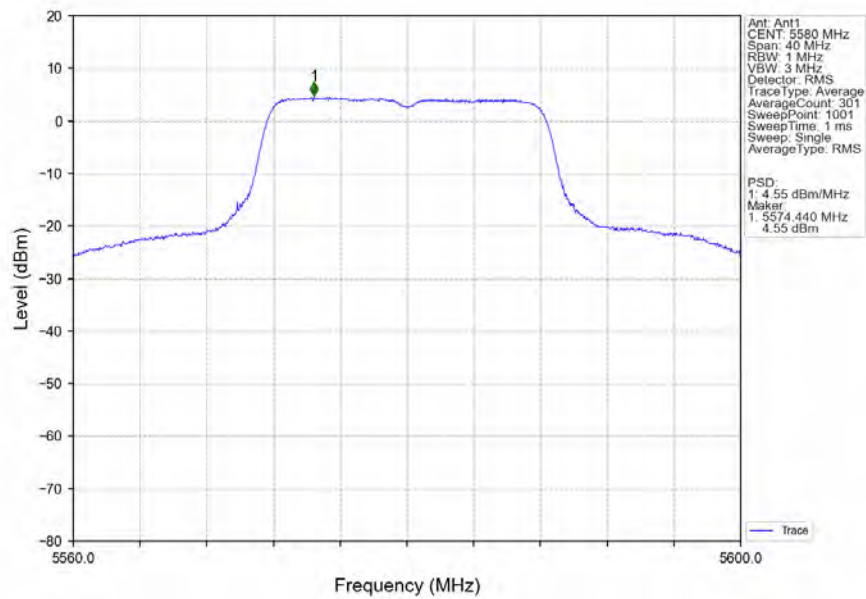
802.11a_HCH_5320MHz_Ant1_NTNV



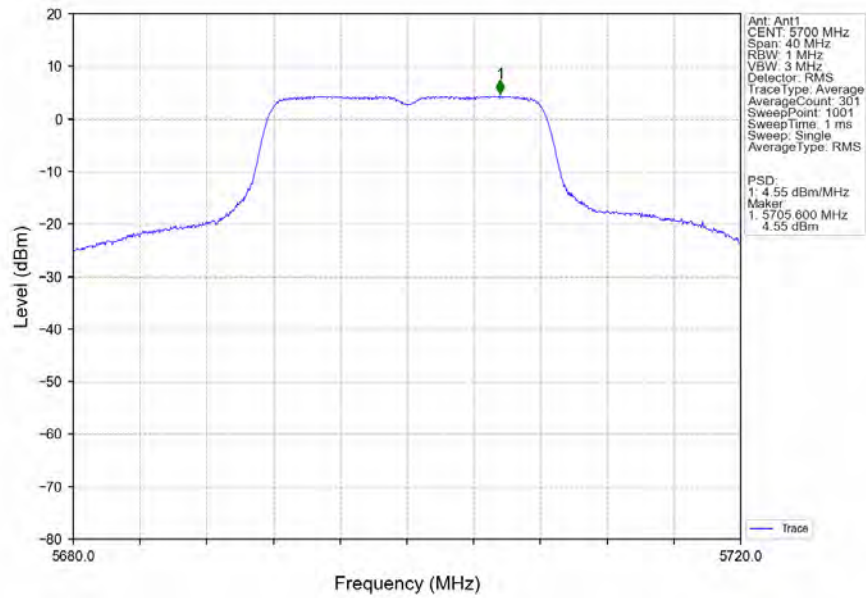
802.11a_LCH_5500MHz_Ant1_NTNV



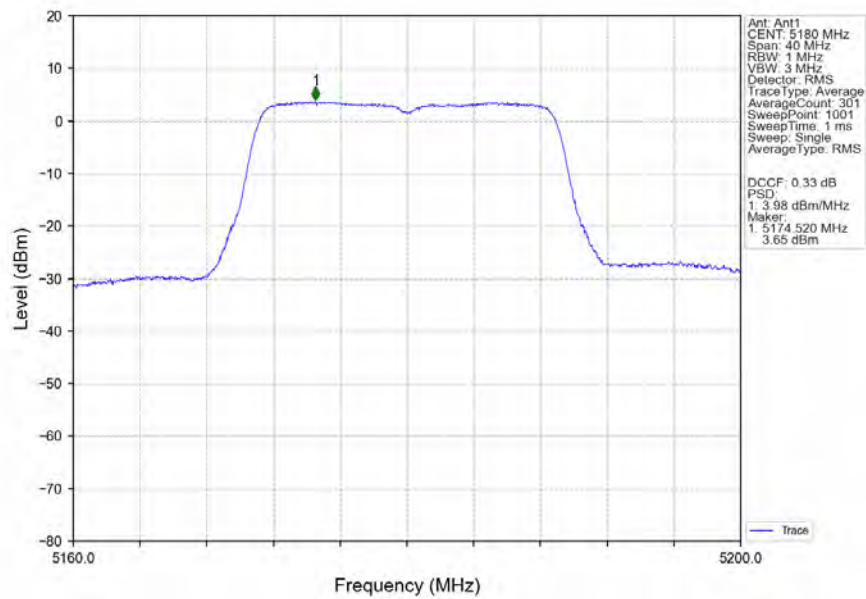
802.11a_MCH_5580MHz_Ant1_NTNV



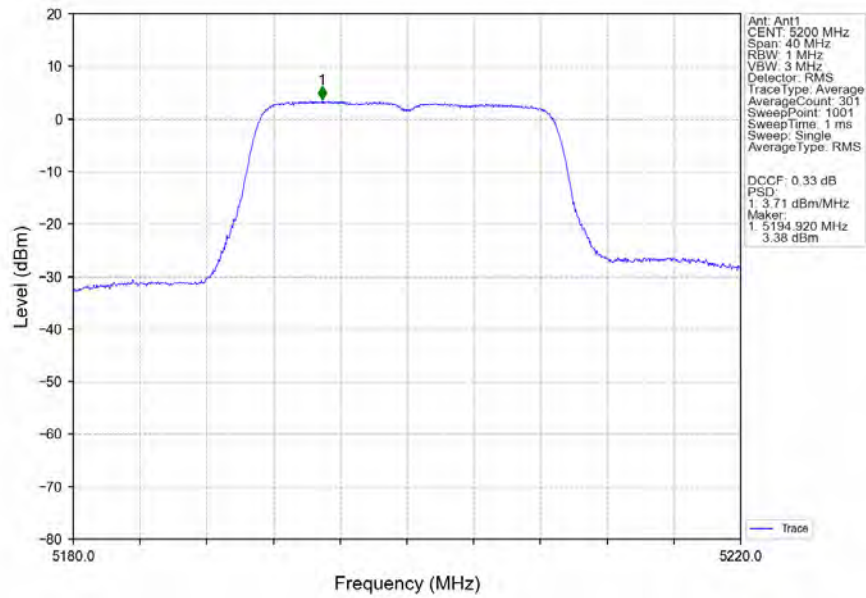
802.11a_HCH_5700MHz_Ant1_NTNV



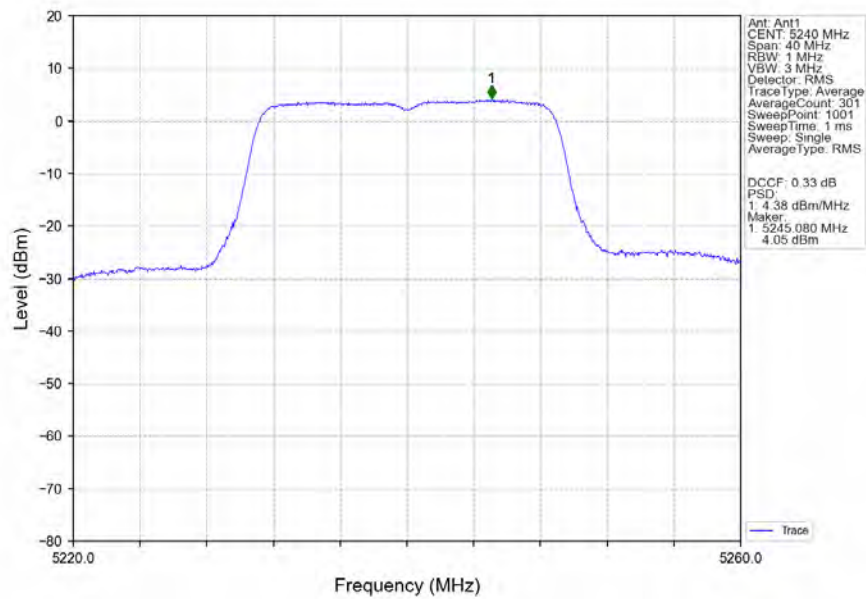
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



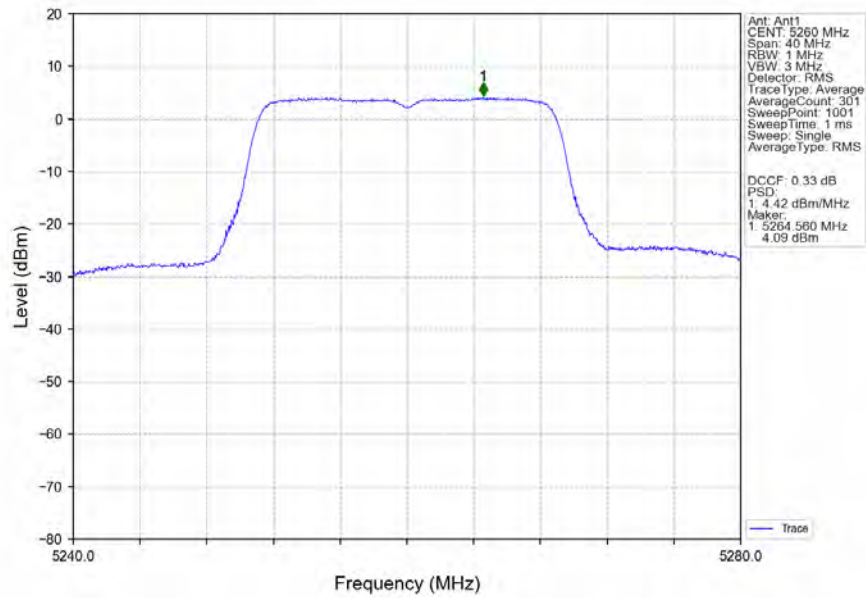
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



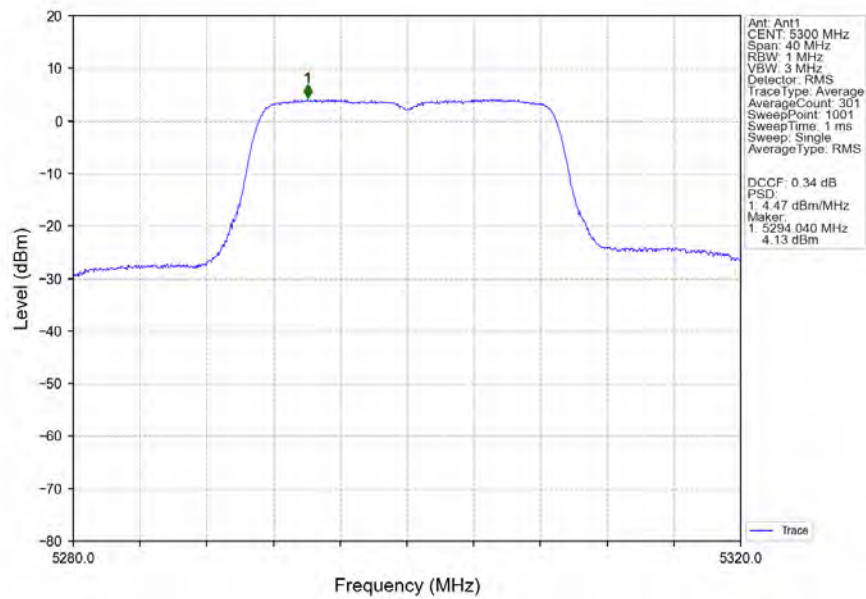
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



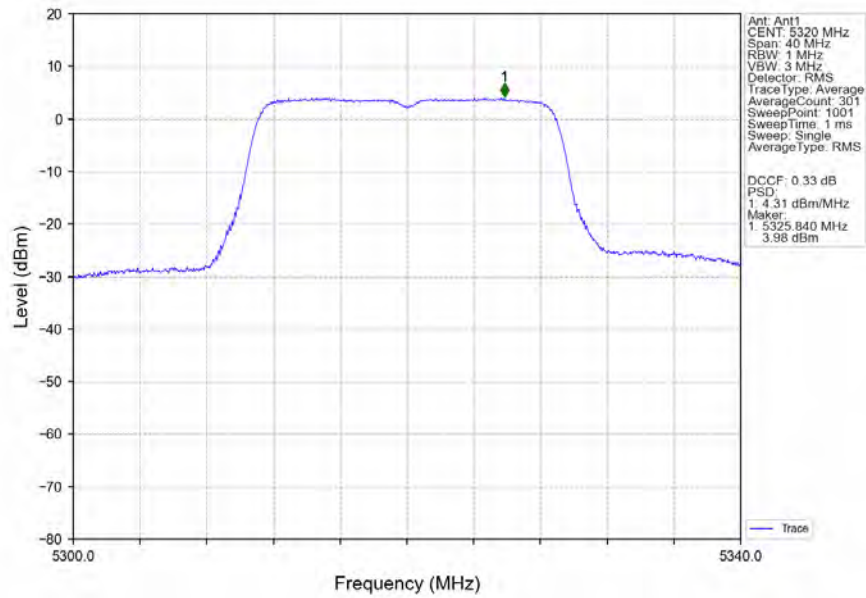
802.11ac(VHT20)_LCH_5260MHz_Ant1_NTNV



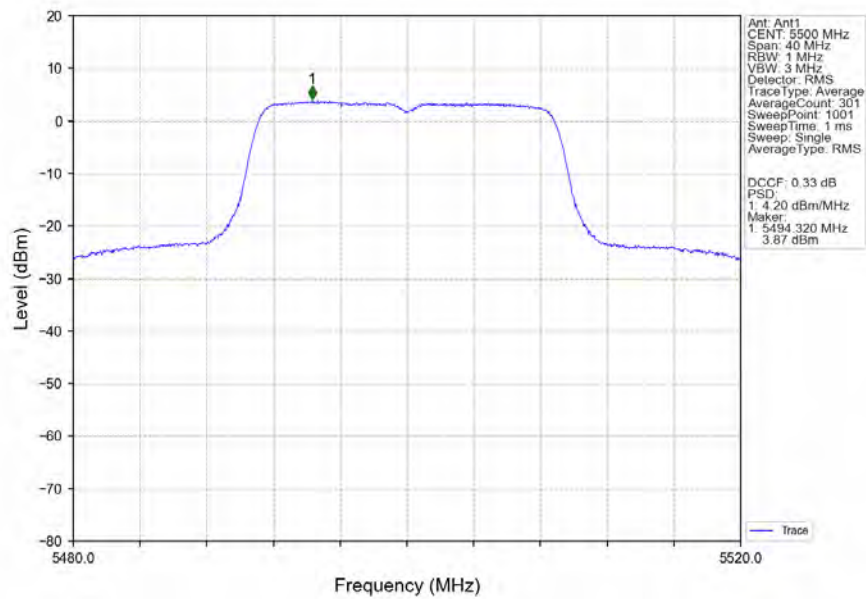
802.11ac(VHT20)_MCH_5300MHz_Ant1_NTNV



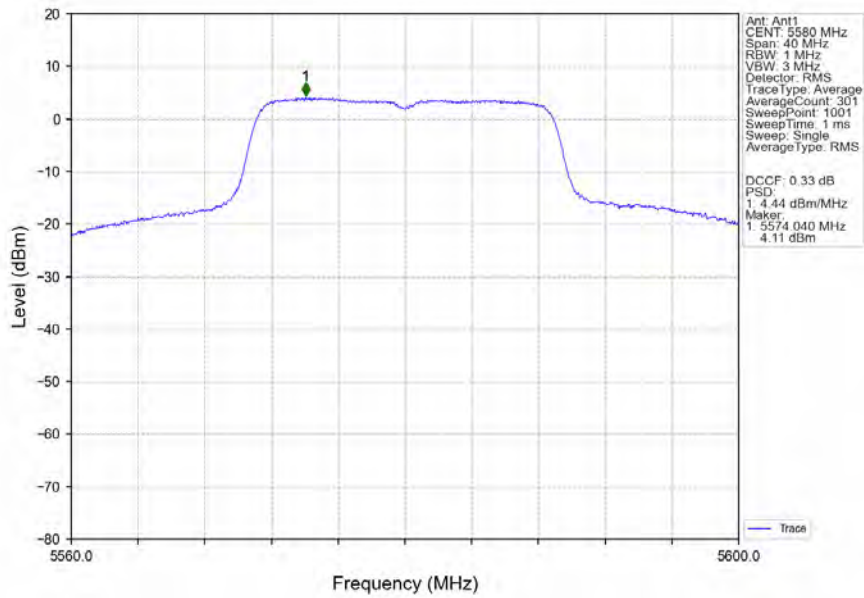
802.11ac(VHT20)_HCH_5320MHz_Ant1_NTNV



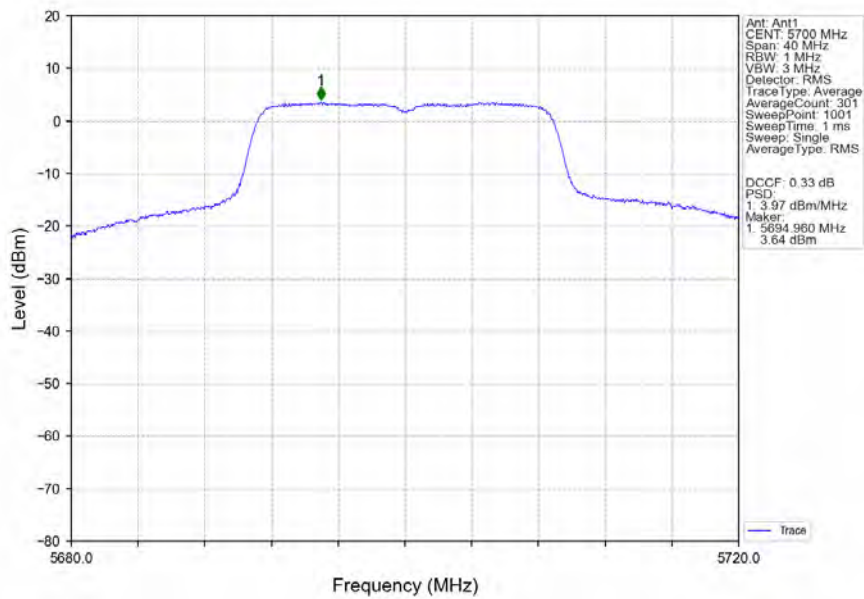
802.11ac(VHT20)_LCH_5500MHz_Ant1_NTNV



802.11ac(VHT20)_MCH_5580MHz_Ant1_NTNV

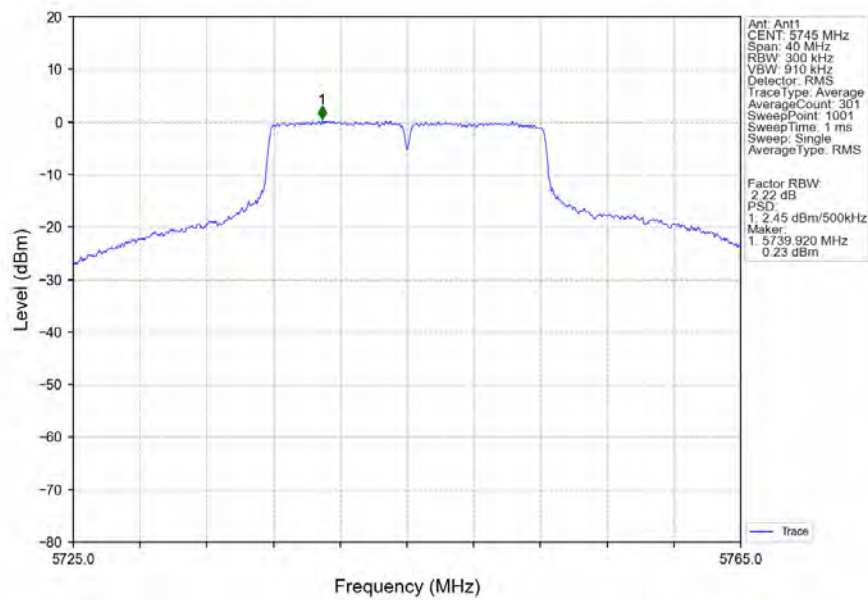


802.11ac(VHT20)_HCH_5700MHz_Ant1_NTNV

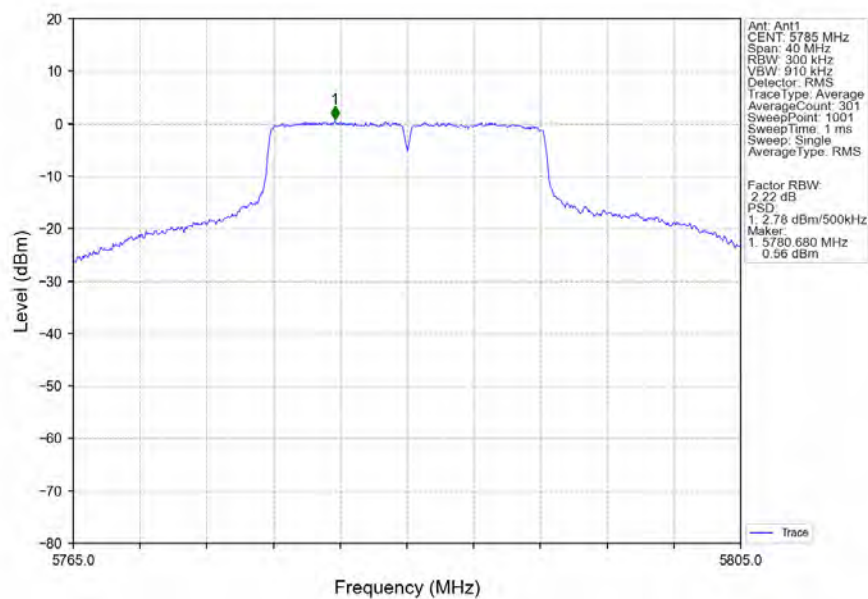


4.2.2 PSD-Band3

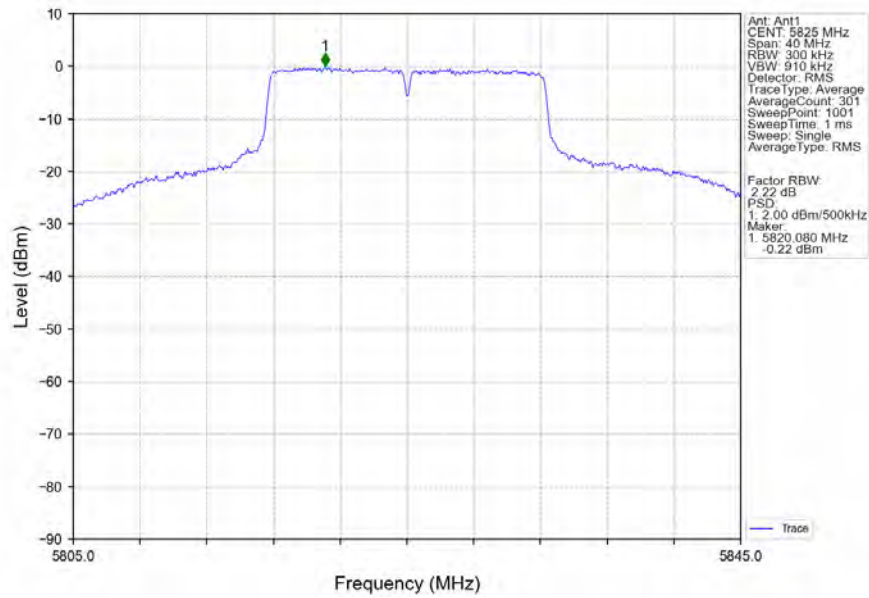
802.11a_LCH_5745MHz_Ant1_NTNV



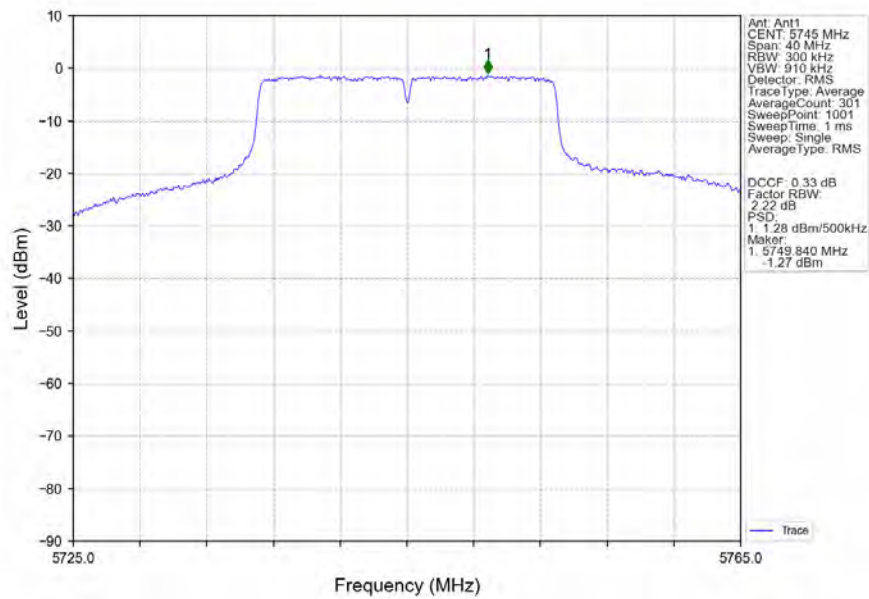
802.11a_MCH_5785MHz_Ant1_NTNV



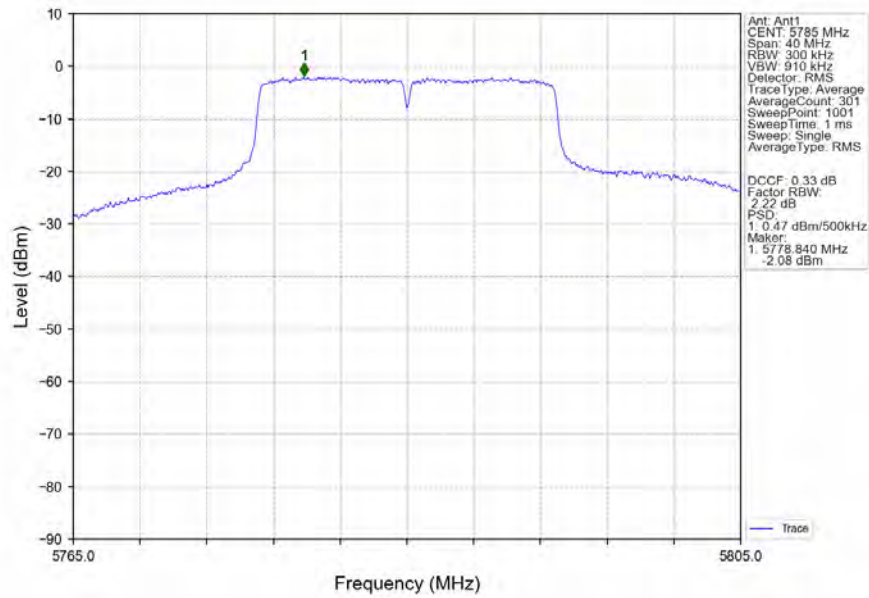
802.11a_HCH_5825MHz_Ant1_NTNV



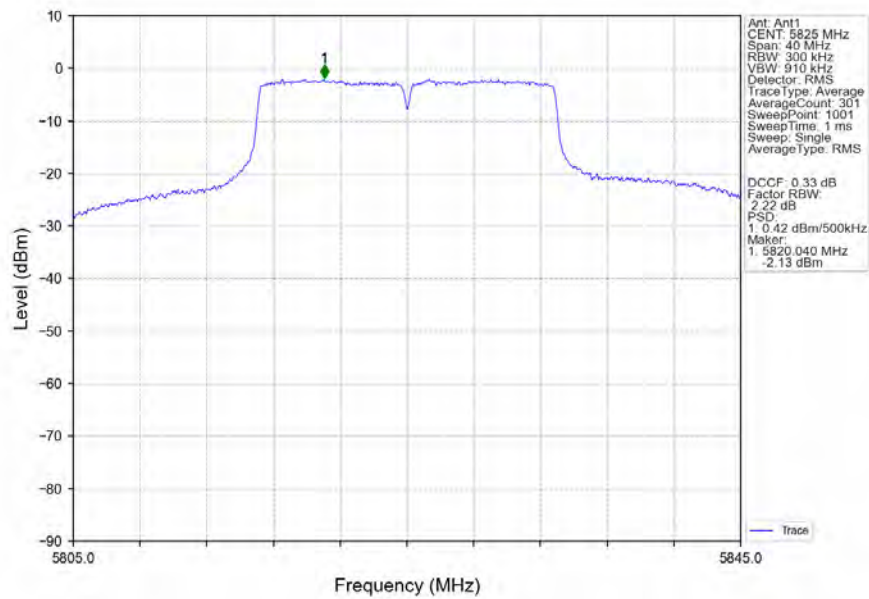
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



5. Frequency Stability

5.1 Test Result

5.1.1 Ant1

Ant1							
Mode	TX Type	Frequency (MHz)	Temperature (°C)	Voltage (VDC)	Measured Frequency (MHz)	Limit (MHz)	Verdict
802.11a	SISO	5180	20	20.4	5180.000	5150 to 5250	Pass
				24	5180.040	5150 to 5250	Pass
				27.6	5180.040	5150 to 5250	Pass
			-30	24	5180.040	5150 to 5250	Pass
			-20	24	5180.040	5150 to 5250	Pass
			-10	24	5180.100	5150 to 5250	Pass
			0	24	5180.020	5150 to 5250	Pass
			10	24	5180.000	5150 to 5250	Pass
			30	24	5180.040	5150 to 5250	Pass
			40	24	5180.060	5150 to 5250	Pass
			50	24	5180.040	5150 to 5250	Pass
		5200	20	20.4	5200.020	5150 to 5250	Pass
				24	5200.020	5150 to 5250	Pass
				27.6	5199.960	5150 to 5250	Pass
			-30	24	5199.980	5150 to 5250	Pass
			-20	24	5200.020	5150 to 5250	Pass
			-10	24	5199.940	5150 to 5250	Pass
			0	24	5200.000	5150 to 5250	Pass
			10	24	5199.980	5150 to 5250	Pass
			30	24	5200.020	5150 to 5250	Pass
			40	24	5200.000	5150 to 5250	Pass
			50	24	5200.060	5150 to 5250	Pass
		5240	20	20.4	5240.060	5150 to 5250	Pass
				24	5240.120	5150 to 5250	Pass
				27.6	5240.040	5150 to 5250	Pass
			-30	24	5240.020	5150 to 5250	Pass
			-20	24	5240.040	5150 to 5250	Pass
			-10	24	5240.080	5150 to 5250	Pass
			0	24	5240.080	5150 to 5250	Pass
			10	24	5240.080	5150 to 5250	Pass
			30	24	5240.020	5150 to 5250	Pass
			40	24	5240.060	5150 to 5250	Pass
			50	24	5240.020	5150 to 5250	Pass
		5260	20	20.4	5260.060	5250 to 5350	Pass
				24	5260.120	5250 to 5350	Pass
				27.6	5260.100	5250 to 5350	Pass
			-30	24	5260.020	5250 to 5350	Pass
			-20	24	5260.040	5250 to 5350	Pass
			-10	24	5260.040	5250 to 5350	Pass

			0	24	5260.040	5250 to 5350	Pass
			10	24	5260.020	5250 to 5350	Pass
			30	24	5260.100	5250 to 5350	Pass
			40	24	5260.060	5250 to 5350	Pass
			50	24	5260.040	5250 to 5350	Pass
		5300	20	20.4	5300.060	5250 to 5350	Pass
				24	5300.000	5250 to 5350	Pass
				27.6	5299.980	5250 to 5350	Pass
			-30	24	5300.020	5250 to 5350	Pass
			-20	24	5300.000	5250 to 5350	Pass
			-10	24	5300.100	5250 to 5350	Pass
			0	24	5300.020	5250 to 5350	Pass
			10	24	5300.040	5250 to 5350	Pass
			30	24	5300.020	5250 to 5350	Pass
			40	24	5300.040	5250 to 5350	Pass
			50	24	5300.080	5250 to 5350	Pass
		5320	20	20.4	5320.100	5250 to 5350	Pass
				24	5319.980	5250 to 5350	Pass
				27.6	5320.020	5250 to 5350	Pass
			-30	24	5320.020	5250 to 5350	Pass
			-20	24	5320.020	5250 to 5350	Pass
			-10	24	5320.020	5250 to 5350	Pass
			0	24	5320.060	5250 to 5350	Pass
			10	24	5320.020	5250 to 5350	Pass
			30	24	5320.020	5250 to 5350	Pass
			40	24	5320.020	5250 to 5350	Pass
			50	24	5319.980	5250 to 5350	Pass
		5500	20	20.4	5500.000	5470 to 5725	Pass
				24	5499.980	5470 to 5725	Pass
				27.6	5500.060	5470 to 5725	Pass
			-30	24	5499.980	5470 to 5725	Pass
			-20	24	5500.000	5470 to 5725	Pass
			-10	24	5500.000	5470 to 5725	Pass
			0	24	5499.980	5470 to 5725	Pass
			10	24	5499.960	5470 to 5725	Pass
			30	24	5500.040	5470 to 5725	Pass
			40	24	5500.020	5470 to 5725	Pass
			50	24	5500.020	5470 to 5725	Pass
		5580	20	20.4	5580.060	5470 to 5725	Pass
				24	5580.020	5470 to 5725	Pass
				27.6	5580.060	5470 to 5725	Pass
			-30	24	5580.000	5470 to 5725	Pass
			-20	24	5580.000	5470 to 5725	Pass
			-10	24	5580.020	5470 to 5725	Pass
			0	24	5580.060	5470 to 5725	Pass
			10	24	5580.020	5470 to 5725	Pass
			30	24	5580.020	5470 to 5725	Pass
			40	24	5580.000	5470 to 5725	Pass
			50	24	5580.120	5470 to 5725	Pass
		5700	20	20.4	5700.000	5470 to 5725	Pass

				24	5700.040	5470 to 5725	Pass
				27.6	5700.080	5470 to 5725	Pass
			-30	24	5700.040	5470 to 5725	Pass
			-20	24	5700.040	5470 to 5725	Pass
			-10	24	5700.040	5470 to 5725	Pass
			0	24	5700.100	5470 to 5725	Pass
			10	24	5700.000	5470 to 5725	Pass
			30	24	5700.060	5470 to 5725	Pass
			40	24	5700.080	5470 to 5725	Pass
			50	24	5700.020	5470 to 5725	Pass
		5745	20	20.4	5745.000	5725 to 5850	Pass
				24	5745.080	5725 to 5850	Pass
				27.6	5745.040	5725 to 5850	Pass
			-30	24	5745.060	5725 to 5850	Pass
			-20	24	5744.980	5725 to 5850	Pass
			-10	24	5745.120	5725 to 5850	Pass
			0	24	5745.000	5725 to 5850	Pass
			10	24	5745.080	5725 to 5850	Pass
			30	24	5745.080	5725 to 5850	Pass
			40	24	5744.980	5725 to 5850	Pass
			50	24	5745.080	5725 to 5850	Pass
		5785	20	20.4	5785.060	5725 to 5850	Pass
				24	5784.980	5725 to 5850	Pass
				27.6	5785.100	5725 to 5850	Pass
			-30	24	5785.020	5725 to 5850	Pass
			-20	24	5785.040	5725 to 5850	Pass
			-10	24	5785.100	5725 to 5850	Pass
			0	24	5785.040	5725 to 5850	Pass
			10	24	5785.040	5725 to 5850	Pass
			30	24	5785.060	5725 to 5850	Pass
			40	24	5785.060	5725 to 5850	Pass
			50	24	5785.020	5725 to 5850	Pass
		5825	20	20.4	5825.060	5725 to 5850	Pass
				24	5825.020	5725 to 5850	Pass
				27.6	5825.040	5725 to 5850	Pass
			-30	24	5824.960	5725 to 5850	Pass
			-20	24	5824.940	5725 to 5850	Pass
			-10	24	5824.960	5725 to 5850	Pass
			0	24	5825.020	5725 to 5850	Pass
			10	24	5825.020	5725 to 5850	Pass
			30	24	5825.040	5725 to 5850	Pass
			40	24	5825.000	5725 to 5850	Pass
			50	24	5825.100	5725 to 5850	Pass
802.11ac (VHT20)	SISO	5180	20	20.4	5180.000	5150 to 5250	Pass
				24	5180.040	5150 to 5250	Pass
				27.6	5180.040	5150 to 5250	Pass
			-30	24	5180.040	5150 to 5250	Pass
			-20	24	5180.040	5150 to 5250	Pass
			-10	24	5180.040	5150 to 5250	Pass
			0	24	5180.020	5150 to 5250	Pass

			10	24	5180.020	5150 to 5250	Pass
			30	24	5179.980	5150 to 5250	Pass
			40	24	5180.040	5150 to 5250	Pass
			50	24	5180.020	5150 to 5250	Pass
		5200	20	20.4	5200.000	5150 to 5250	Pass
				24	5199.960	5150 to 5250	Pass
				27.6	5200.040	5150 to 5250	Pass
			-30	24	5199.960	5150 to 5250	Pass
			-20	24	5200.020	5150 to 5250	Pass
			-10	24	5199.980	5150 to 5250	Pass
			0	24	5200.000	5150 to 5250	Pass
			10	24	5199.960	5150 to 5250	Pass
			30	24	5200.020	5150 to 5250	Pass
			40	24	5199.980	5150 to 5250	Pass
			50	24	5199.960	5150 to 5250	Pass
		5240	20	20.4	5240.100	5150 to 5250	Pass
				24	5240.080	5150 to 5250	Pass
				27.6	5240.040	5150 to 5250	Pass
			-30	24	5240.060	5150 to 5250	Pass
			-20	24	5240.040	5150 to 5250	Pass
			-10	24	5240.040	5150 to 5250	Pass
			0	24	5240.040	5150 to 5250	Pass
			10	24	5240.060	5150 to 5250	Pass
			30	24	5240.020	5150 to 5250	Pass
			40	24	5240.060	5150 to 5250	Pass
			50	24	5240.000	5150 to 5250	Pass
		5260	20	20.4	5260.080	5250 to 5350	Pass
				24	5259.980	5250 to 5350	Pass
				27.6	5260.020	5250 to 5350	Pass
			-30	24	5260.080	5250 to 5350	Pass
			-20	24	5259.960	5250 to 5350	Pass
			-10	24	5260.060	5250 to 5350	Pass
			0	24	5260.020	5250 to 5350	Pass
			10	24	5260.020	5250 to 5350	Pass
			30	24	5260.020	5250 to 5350	Pass
			40	24	5260.000	5250 to 5350	Pass
			50	24	5260.080	5250 to 5350	Pass
		5300	20	20.4	5300.080	5250 to 5350	Pass
				24	5300.020	5250 to 5350	Pass
				27.6	5300.080	5250 to 5350	Pass
			-30	24	5300.040	5250 to 5350	Pass
			-20	24	5300.000	5250 to 5350	Pass
			-10	24	5300.040	5250 to 5350	Pass
			0	24	5300.000	5250 to 5350	Pass
			10	24	5300.020	5250 to 5350	Pass
			30	24	5300.040	5250 to 5350	Pass
			40	24	5300.080	5250 to 5350	Pass
			50	24	5300.000	5250 to 5350	Pass
		5320	20	20.4	5319.980	5250 to 5350	Pass
				24	5320.020	5250 to 5350	Pass

				27.6	5320.020	5250 to 5350	Pass
			-30	24	5320.000	5250 to 5350	Pass
			-20	24	5319.960	5250 to 5350	Pass
			-10	24	5320.040	5250 to 5350	Pass
			0	24	5320.060	5250 to 5350	Pass
			10	24	5319.980	5250 to 5350	Pass
			30	24	5320.060	5250 to 5350	Pass
			40	24	5320.020	5250 to 5350	Pass
			50	24	5320.020	5250 to 5350	Pass
		5500	20	20.4	5500.020	5470 to 5725	Pass
				24	5499.980	5470 to 5725	Pass
				27.6	5500.000	5470 to 5725	Pass
			-30	24	5500.040	5470 to 5725	Pass
			-20	24	5500.000	5470 to 5725	Pass
			-10	24	5500.020	5470 to 5725	Pass
			0	24	5500.040	5470 to 5725	Pass
			10	24	5499.980	5470 to 5725	Pass
			30	24	5499.940	5470 to 5725	Pass
			40	24	5500.000	5470 to 5725	Pass
			50	24	5500.040	5470 to 5725	Pass
		5580	20	20.4	5579.980	5470 to 5725	Pass
				24	5580.040	5470 to 5725	Pass
				27.6	5580.000	5470 to 5725	Pass
			-30	24	5579.980	5470 to 5725	Pass
			-20	24	5580.100	5470 to 5725	Pass
			-10	24	5580.080	5470 to 5725	Pass
			0	24	5579.940	5470 to 5725	Pass
			10	24	5579.960	5470 to 5725	Pass
			30	24	5579.980	5470 to 5725	Pass
			40	24	5580.000	5470 to 5725	Pass
			50	24	5580.020	5470 to 5725	Pass
		5700	20	20.4	5700.060	5470 to 5725	Pass
				24	5700.080	5470 to 5725	Pass
				27.6	5699.980	5470 to 5725	Pass
			-30	24	5700.000	5470 to 5725	Pass
			-20	24	5700.000	5470 to 5725	Pass
			-10	24	5700.000	5470 to 5725	Pass
			0	24	5700.000	5470 to 5725	Pass
			10	24	5700.020	5470 to 5725	Pass
			30	24	5700.040	5470 to 5725	Pass
			40	24	5700.000	5470 to 5725	Pass
			50	24	5699.980	5470 to 5725	Pass
		5745	20	20.4	5744.980	5725 to 5850	Pass
				24	5745.100	5725 to 5850	Pass
				27.6	5745.020	5725 to 5850	Pass
			-30	24	5745.020	5725 to 5850	Pass
			-20	24	5745.040	5725 to 5850	Pass
			-10	24	5745.040	5725 to 5850	Pass
			0	24	5744.980	5725 to 5850	Pass
			10	24	5744.960	5725 to 5850	Pass

			30	24	5745.120	5725 to 5850	Pass
			40	24	5745.080	5725 to 5850	Pass
			50	24	5745.020	5725 to 5850	Pass
		5785	20	20.4	5785.040	5725 to 5850	Pass
				24	5785.080	5725 to 5850	Pass
				27.6	5784.980	5725 to 5850	Pass
			-30	24	5784.980	5725 to 5850	Pass
			-20	24	5785.120	5725 to 5850	Pass
			-10	24	5785.040	5725 to 5850	Pass
			0	24	5785.060	5725 to 5850	Pass
			10	24	5785.000	5725 to 5850	Pass
			30	24	5785.000	5725 to 5850	Pass
			40	24	5785.060	5725 to 5850	Pass
			50	24	5785.000	5725 to 5850	Pass
		5825	20	20.4	5825.020	5725 to 5850	Pass
				24	5825.060	5725 to 5850	Pass
				27.6	5825.000	5725 to 5850	Pass
			-30	24	5825.040	5725 to 5850	Pass
			-20	24	5825.060	5725 to 5850	Pass
			-10	24	5825.000	5725 to 5850	Pass
			0	24	5825.040	5725 to 5850	Pass
			10	24	5825.040	5725 to 5850	Pass
			30	24	5825.020	5725 to 5850	Pass
			40	24	5825.060	5725 to 5850	Pass
			50	24	5825.000	5725 to 5850	Pass



6. Signal Calibration

6.1 Test Result

6.1.1 SC

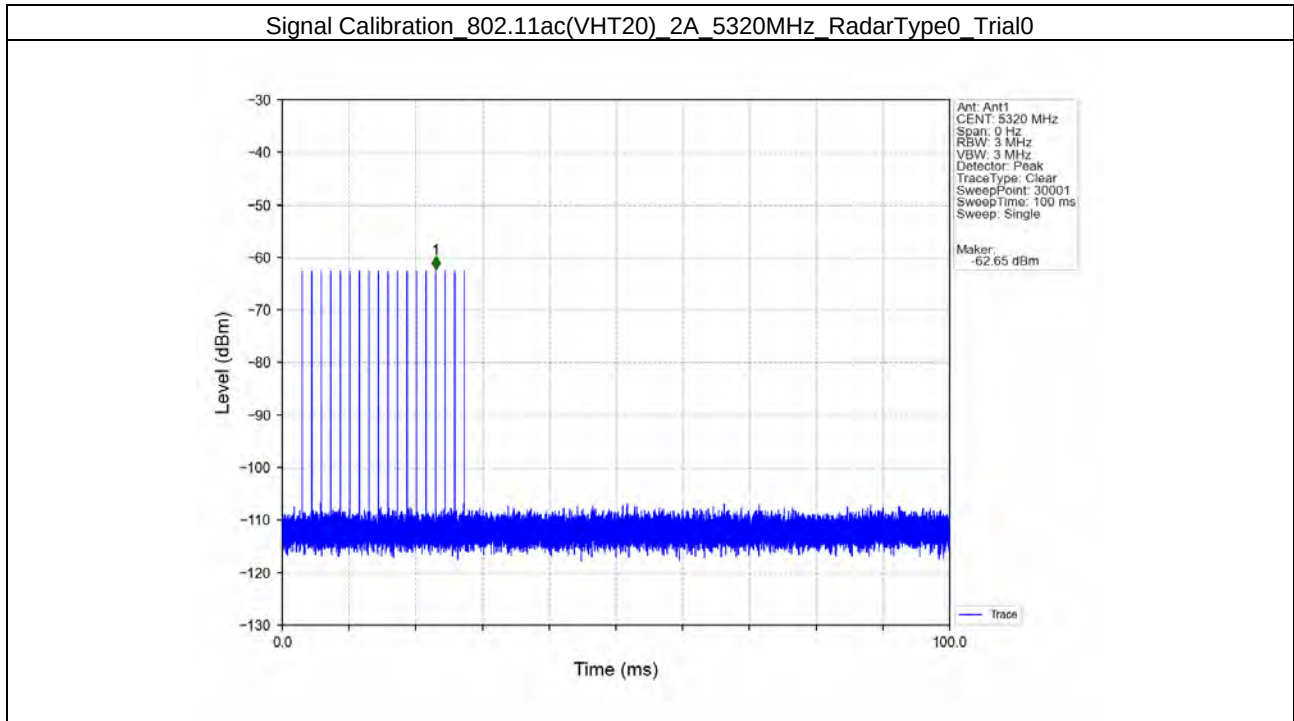
Band: 2A						
Mode	Bandwidth (MHz)	Frequency (MHz)	Radar Signal		Signal Calibration	
			Type	Trial Id	Result	Limit
802.11ac (VHT20)	20	5320	0	0	Refer To Test Graph	
						Pass

6.1.2 SC

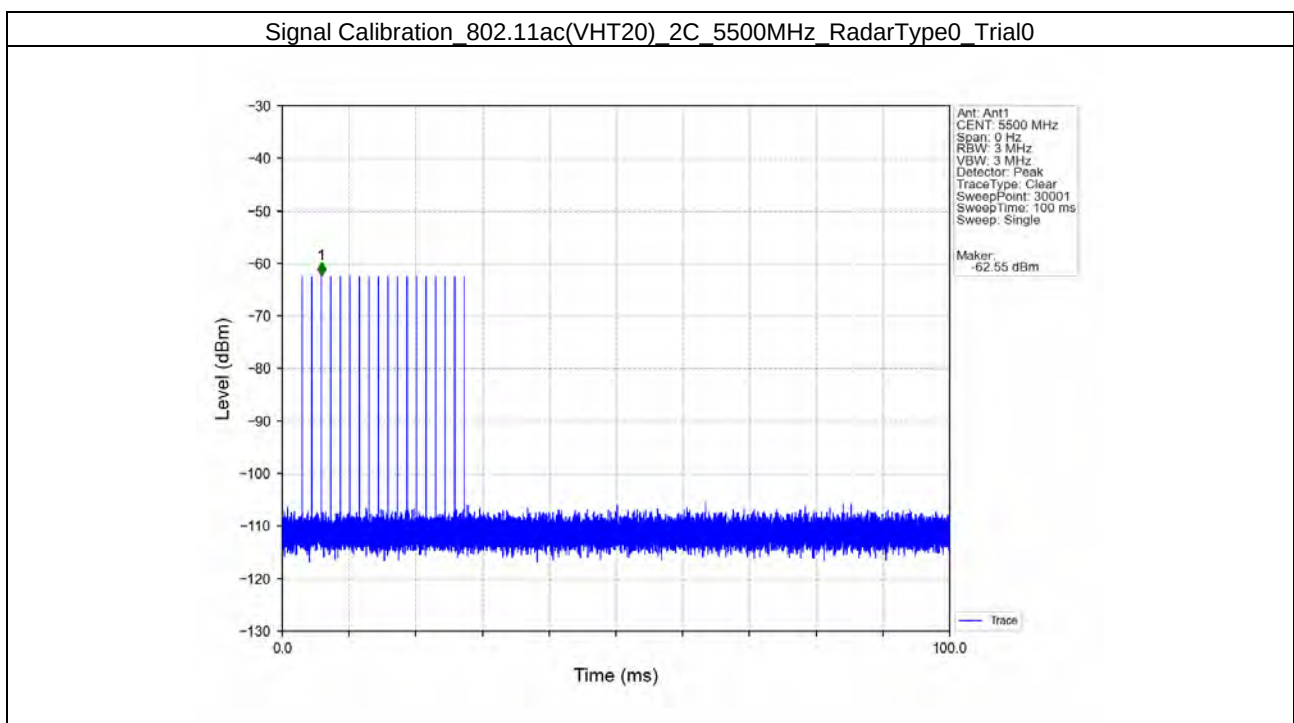
Band: 2C						
Mode	Bandwidth (MHz)	Frequency (MHz)	Radar Signal		Signal Calibration	
			Type	Trial Id	Result	Limit
802.11ac (VHT20)	20	5500	0	0	Refer To Test Graph	
						Pass

6.2 Test Graph

6.2.1 SC



6.2.2 SC





7. Channel Loading (Payload)

7.1 Test Result

7.1.1 Payload

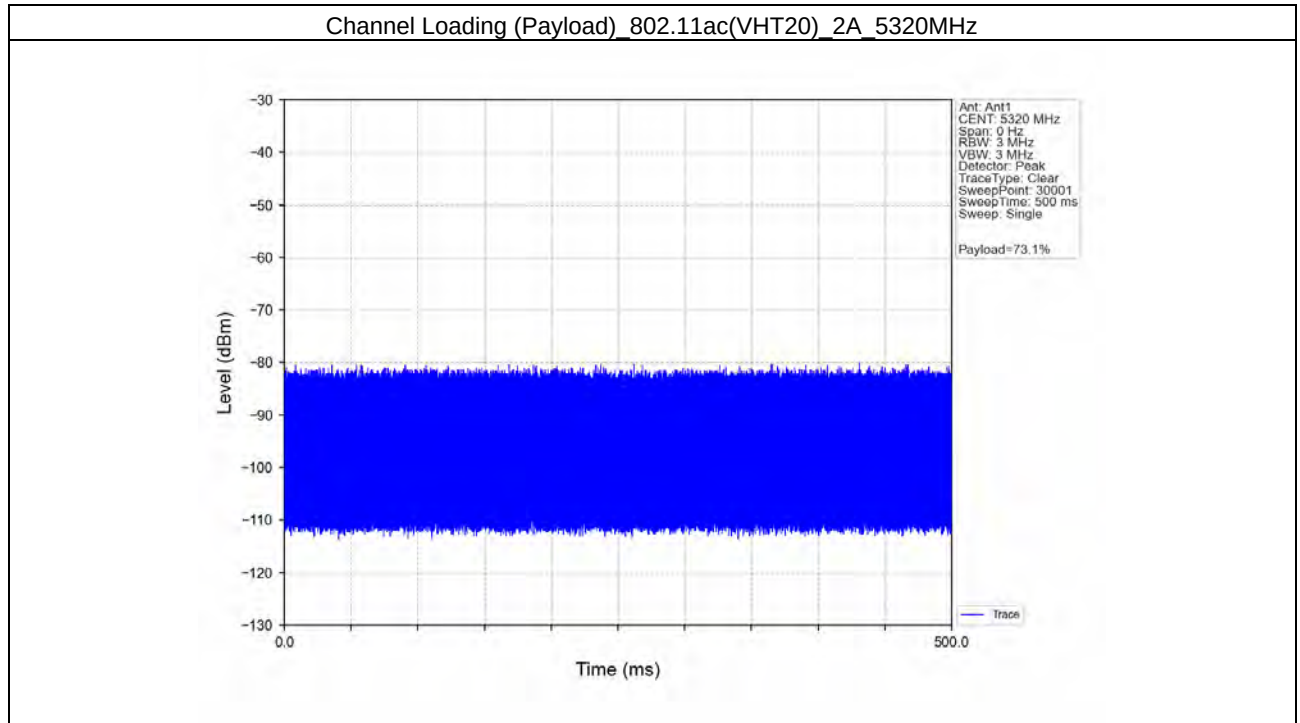
Band: 2A					
Mode	Bandwidth (MHz)	Frequency (MHz)	Channel Loading (Payload) (%)		Verdict
			Result	Limit	
802.11ac (VHT20)	20	5320	73.10	>=17	Pass

7.1.2 Payload

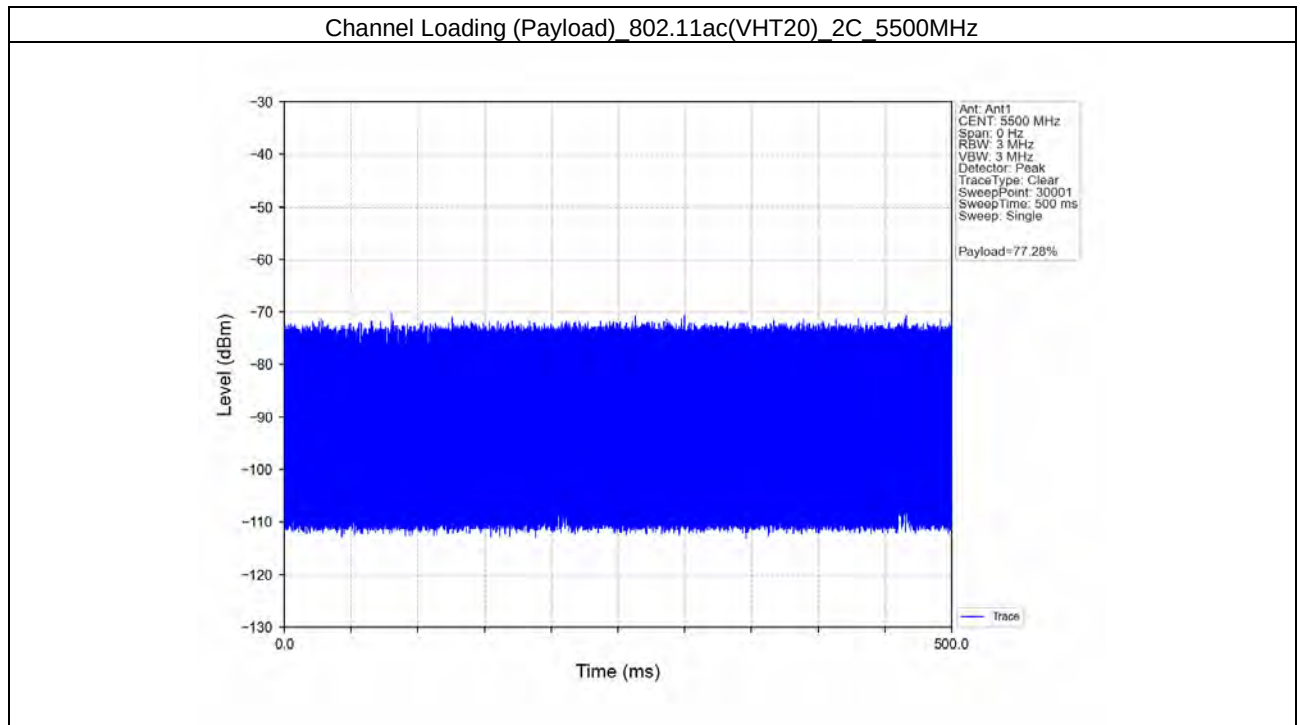
Band: 2C					
Mode	Bandwidth (MHz)	Frequency (MHz)	Channel Loading (Payload) (%)		Verdict
			Result	Limit	
802.11ac (VHT20)	20	5500	77.28	>=17	Pass

7.2 Test Graph

7.2.1 Payload



7.2.2 Payload



8. Channel Move Time and Closing Transmission Time

8.1 Test Result

8.1.1 CMT_CTT

Band: 2A							
Mode	Bandwidth (MHz)	Frequency (MHz)	Channel Closing Transmission Time (ms)		Channel Move Time (s)		Verdict
			Result	Limit	Result	Limit	
802.11ac (VHT20)	20	5320	5.000	≤ 60	0.805	≤ 10	Pass

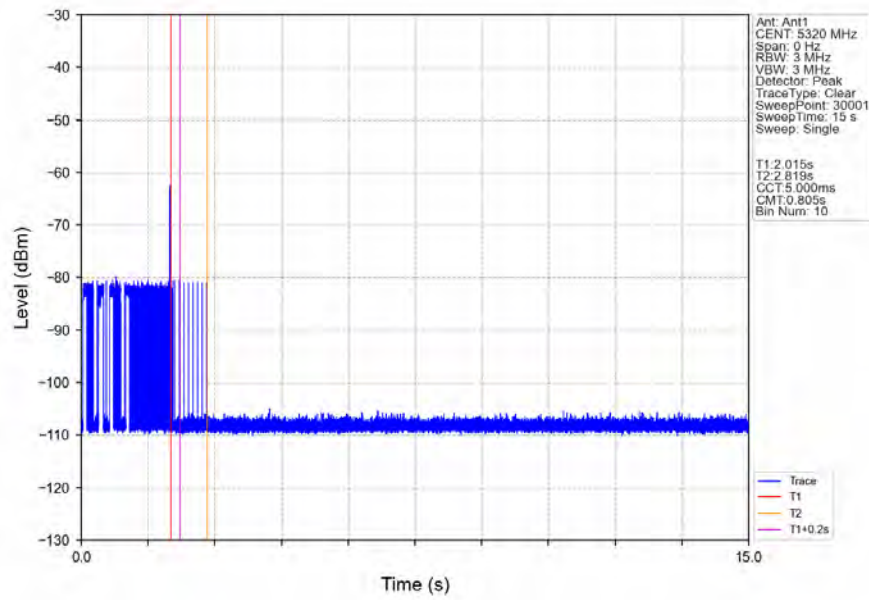
8.1.2 CMT_CTT

Band: 2C							
Mode	Bandwidth (MHz)	Frequency (MHz)	Channel Closing Transmission Time (ms)		Channel Move Time (s)		Verdict
			Result	Limit	Result	Limit	
802.11ac (VHT20)	20	5500	5.500	≤ 60	0.872	≤ 10	Pass

8.2 Test Graph

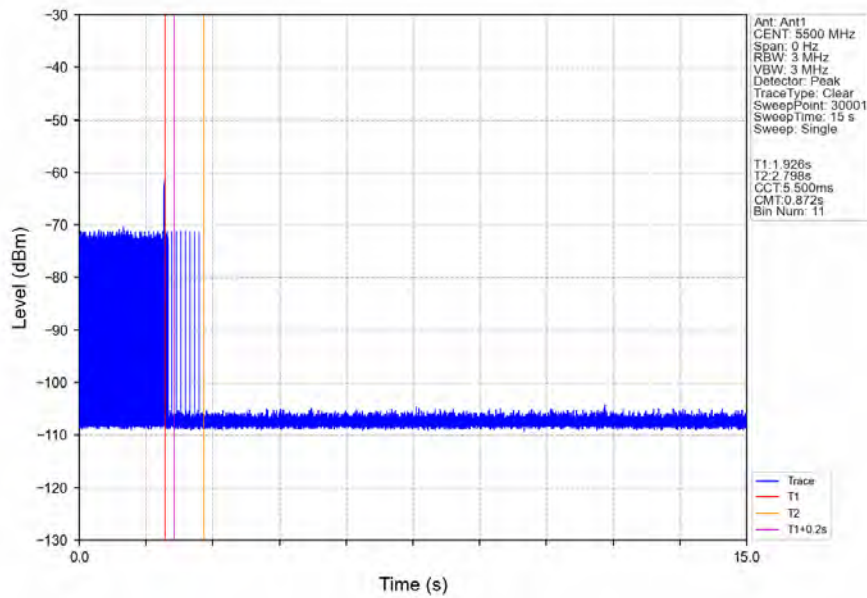
8.2.1 CMT_CTT

Channel Move Time and Closing Transmission Time_802.11ac(VHT20)_2A_5320MHz



8.2.2 CMT_CTT

Channel Move Time and Closing Transmission Time_802.11ac(VHT20)_2C_5500MHz





9. Non-Occupancy Period

9.1 Test Result

9.1.1 Period

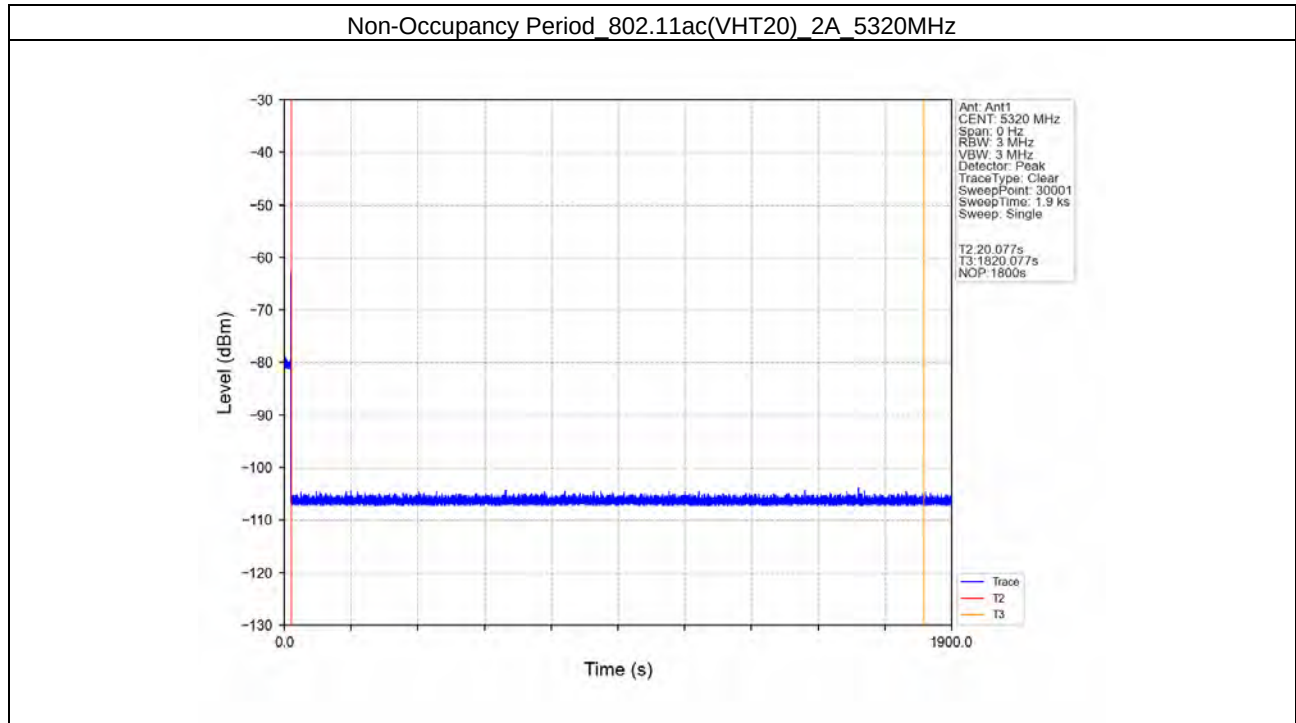
Band: 2A					
Mode	Bandwidth (MHz)	Frequency (MHz)	Non-Occupancy Period		Verdict
			Result	Limit	
802.11ac (VHT20)	20	5320	Refer To Test Graph		Pass

9.1.2 Period

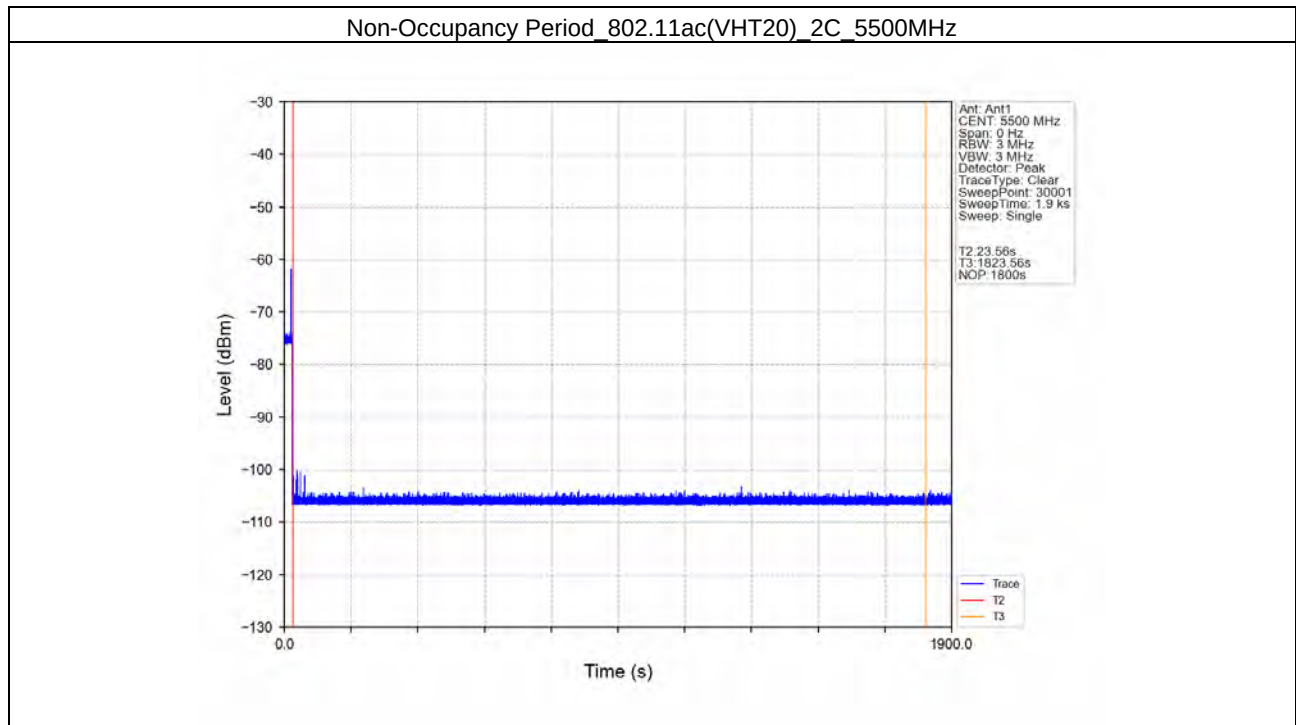
Band: 2C					
Mode	Bandwidth (MHz)	Frequency (MHz)	Non-Occupancy Period		Verdict
			Result	Limit	
802.11ac (VHT20)	20	5500	Refer To Test Graph		Pass

9.2 Test Graph

9.2.1 Period



9.2.2 Period



- End of the Report -