TCT 通测检测 TESTING CENTRE TECHNOLOGY

TEST REPORT

FCC ID. ..... :	2A92DVMC-100
Test Report No..... :	TCT221212E006
Date of issue..... :	Feb. 02, 2023
Testing laboratory ..... :	SHENZHEN TONGCE TESTING LAB
Testing location/ address:	2101 & 2201, Zhenchang Factory Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China
Applicant's name..... :	VISUSCIENCE MEDITECH CO., LTD.
Address..... :	Room 718-720, No. 208 Guangyi Road, Wuxi, Jiangsu Province 214016, China
Manufacturer's name ... :	VISUSCIENCE MEDITECH CO., LTD.
Address..... :	Room 718-720, No. 208 Guangyi Road, Wuxi, Jiangsu Province 214016, China
Standard(s) ..... :	FCC CFR Title 47 Part 15 Subpart E Section 15.407 KDB 662911 D01 Multiple Transmitter Output v02r01 KDB 789033 D02 General U-NII Test Procedures New Rules v02r01
Product Name..... :	Meibomian Gland Imaging Camera
Trade Mark ..... :	VisuScience
Model/Type reference..... :	VMC-100, VMC-200, VMC-300, VMC-500
Rating(s)..... :	Adapter Information: Model: UES06WNCPU-050100SPA Input: AC 100-240V, 50/60Hz, 0.2A Output: DC 5.0V, 1.0A, 5.0W Rechargeable Li-ion Battery DC 3.7V
Date of receipt of test item ..... :	Dec. 12, 2022
Date (s) of performance of test..... :	Dec. 12, 2022 - Feb. 02, 2023
Tested by (+signature) ... :	Rleo LIU
Check by (+signature).... :	Beryl ZHAO
Approved by (+signature):	Tomsin

General disclaimer:

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1. General Product Information

1.1. EUT description

Product Name.....:	Meibomian Gland Imaging Camera
Model/Type reference.....:	VMC-100
Sample Number.....:	TCT221212E006-0101
Operation Frequency.....:	Band 1: 5180 MHz ~ 5240 MHz Band 2A: 5260 MHz ~ 5320 MHz Band 2C: 5500 MHz ~ 5700 MHz Band 3: 5745 MHz ~ 5825 MHz
Channel Bandwidth.....:	802.11a: 20MHz 802.11n: 20MHz, 40MHz 802.11ac: 20MHz, 40MHz, 80MHz
Modulation Technology.....:	Orthogonal Frequency Division Multiplexing(OFDM)
Modulation Type.....:	256QAM, 64QAM, 16QAM, BPSK, QPSK
Antenna Type.....:	Internal Antenna
Antenna Gain.....:	2.49dBi
Rating(s).....:	Adapter Information: Model: UES06WNCPU-050100SPA Input: AC 100-240V, 50/60Hz, 0.2A Output: DC 5.0V, 1.0A, 5.0W Rechargeable Li-ion Battery DC 3.7V

Note: The antenna gain listed in this report is provided by applicant, and the test laboratory is not responsible for this parameter.

1.2. Model(s) list

No.	Model No.	Tested with
1	VMC-100	☒
Other models	VMC-200, VMC-300, VMC-500	☐

Note: VMC-100 is tested model, other models are derivative models. The models are identical in circuit and PCB layout, different on the model names and color of appearance. So the test data of VMC-100 can represent the remaining models.

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1.3. Test Frequency

Band 1

20MHz		40MHz		80MHz	
Channel	Frequency	Channel	Frequency	Channel	Frequency
36	5180	38	5190	42	5210
40	5200	46	5230		
48	5240				

Band 2A

20MHz		40MHz		80MHz	
Channel	Frequency	Channel	Frequency	Channel	Frequency
52	5260	54	5270	58	5290
60	5300	62	5310		
64	5320				

Band 2C

20MHz		40MHz		80MHz	
Channel	Frequency	Channel	Frequency	Channel	Frequency
100	5500	102	5510	106	5530
120	5600	118	5590	122	5610
140	5700	134	5670		

Band 3

20MHz		40MHz		80MHz	
Channel	Frequency	Channel	Frequency	Channel	Frequency
149	5745	151	5755	155	5775
157	5785	159	5795		
165	5825				

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

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2. Test Result Summary

Requirement	CFR 47 Section	Result
Antenna requirement	§15.203	PASS
AC Power Line Conducted Emission	§15.207	PASS
Maximum Conducted Output Power	§15.407(a)	PASS
6dB Emission Bandwidth	§15.407(a)	PASS
26dB Emission Bandwidth& 99% Occupied Bandwidth	§15.407(a)	PASS
Power Spectral Density	§15.407(a)	PASS
Restricted Bands around fundamental frequency	§15.407(b)	PASS
Radiated Emission	§15.407(b)	PASS
Frequency Stability	§15.407(g)	PASS

Note:

1. PASS: Test item meets the requirement.

2. Fail: Test item does not meet the requirement.

3. N/A: Test case does not apply to the test object.

4. The test result judgment is decided by the limit of test standard.

5.For the band 5.15-5.25GHz,EUT meet the requirements of 15.407(a)(ii).

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3. General Information

3.1. Test environment and mode

Operating Environment:	
Temperature:	25.0 °C
Humidity:	56 % RH
Atmospheric Pressure:	1010 mbar
Test Software:	
Software Information:	SecureCRTPortable
Power Level:	14
Test Mode:	
Engineer mode:	Keep the EUT in continuous transmitting by select channel and modulations with max duty cycle.
The sample was placed 0.8m/1.5m for blow/above 1GHz above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.	

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

Per-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.

Mode	Data rate
802.11a	6 Mbps
802.11n(HT20)	6.5 Mbps
802.11n(HT40)	13.5 Mbps
802.11ac(VHT20)	6.5 Mbps
802.11ac(VHT40)	13.5 Mbps
802.11ac(VHT80)	29.3 Mbps

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3.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
Router	WL-WN575A3	EB03WK0500482	/	wavlink
Mobile Phone	iphone12mini	/	/	Apple
Notebook Computer	XiaoXin CHAO5000	PF0WZYD9	/	Lenovo
Adapter	ADLX65CCGC2A	8SSA10M42805C1 SG88E0R8E	/	Lenovo

Note:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.

2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

3. For conducted measurements (Output Power, Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.

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4. Facilities and Accreditations

4.1. Facilities

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

- FCC - Registration No.: 645098

  SHENZHEN TONGCE TESTING LAB

  Designation Number: CN1205

  The testing lab has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

- IC - Registration No.: 10668A-1

  SHENZHEN TONGCE TESTING LAB

  CAB identifier: CN0031

  The testing lab has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing.

4.2. Location

SHENZHEN TONGCE TESTING LAB

Address: 2101 & 2201, Zhenchang Factory Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China

TEL: +86-755-27673339

4.3. Measurement Uncertainty

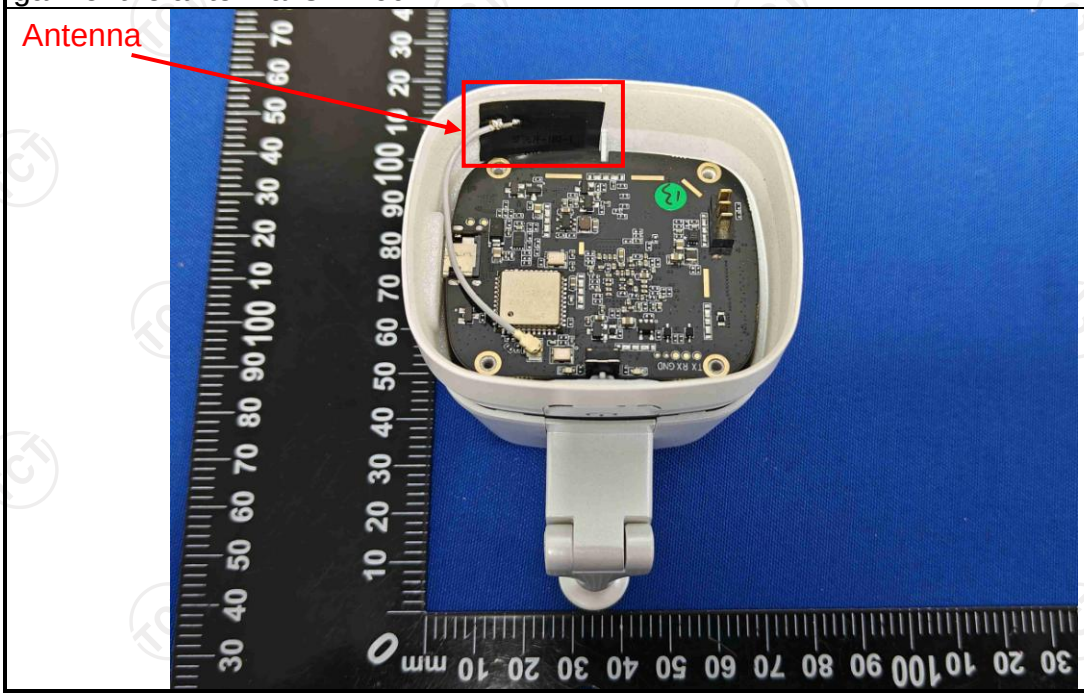
The reported uncertainty of measurement y ± U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

No.	Item	MU
1	Conducted Emission	± 3.10 dB
2	RF power, conducted	± 0.12 dB
3	Spurious emissions, conducted	± 0.11 dB
4	All emissions, radiated(<1 GHz)	± 4.56 dB
5	All emissions, radiated(1 GHz - 18 GHz)	± 4.22 dB
6	All emissions, radiated(18 GHz- 40 GHz)	± 4.36 dB

5. Test Results and Measurement Data

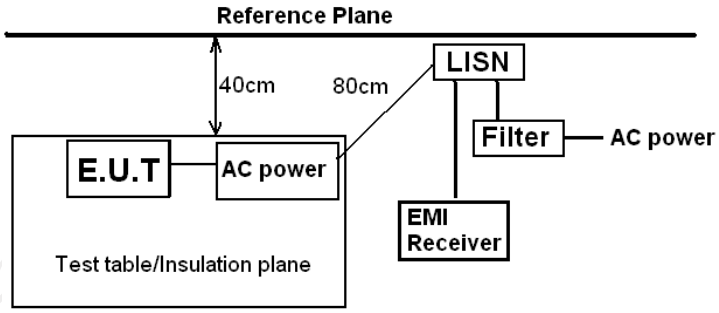
5.1. Antenna requirement

Standard requirement:	FCC Part15 C Section 15.203 /247(c)
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.	
E.U.T Antenna:	
The EUT antenna is internal antenna which permanently attached, and the best case gain of the antenna is 2.49dBi.	



5.2. Conducted Emission

5.2.1. Test Specification

<table>
<tr><td>Test Requirement:</td><td>FCC Part15 C Section 15.207</td></tr>
<tr><td>Test Method:</td><td>ANSI C63.10:2013</td></tr>
<tr><td>Frequency Range:</td><td>150 kHz to 30 MHz</td></tr>
<tr><td>Receiver setup:</td><td>RBW=9 kHz, VBW=30 kHz, Sweep time=auto</td></tr>
<tr><td>Limits:</td><td>
<table>
<tr><td rowspan="2">Frequency range (MHz)</td><td colspan="2">Limit (dBuV)</td></tr>
<tr><td>Quasi-peak</td><td>Average</td></tr>
<tr><td>0.15-0.5</td><td>66 to 56*</td><td>56 to 46*</td></tr>
<tr><td>0.5-5</td><td>56</td><td>46</td></tr>
<tr><td>5-30</td><td>60</td><td>50</td></tr>
</table>
</td></tr>
<tr><td>Test Setup:</td><td> 

Remark:
E.U.T: Equipment Under Test
LISN: Line Impedence Stabilization Network
Test table height=0.8m</td></tr>
<tr><td>Test Mode:</td><td>Charging + Transmitting Mode</td></tr>
<tr><td>Test Procedure:</td><td>1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.
2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).
3. Both sides of A.C. line are checked for maximum conducted interference. 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: 2013 on conducted measurement.</td></tr>
<tr><td>Test Result:</td><td>PASS</td></tr>
</table>

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5.2.2. Test Instruments

Conducted Emission Shielding Room Test Site (843)				
Equipment	**Manufacturer**	**Model**	**Serial Number**	**Calibration Due**
EMI Test Receiver	R&S	ESCI3	100898	Jul. 03, 2023
Line Impedance Stabilisation Newtork(LISN)	Schwarzbeck	NSLK 8126	8126453	Feb. 24, 2023
Line-5	TCT	CE-05	/	Jul. 03, 2024
EMI Test Software	Shurple Technology	EZ-EMC	/	/

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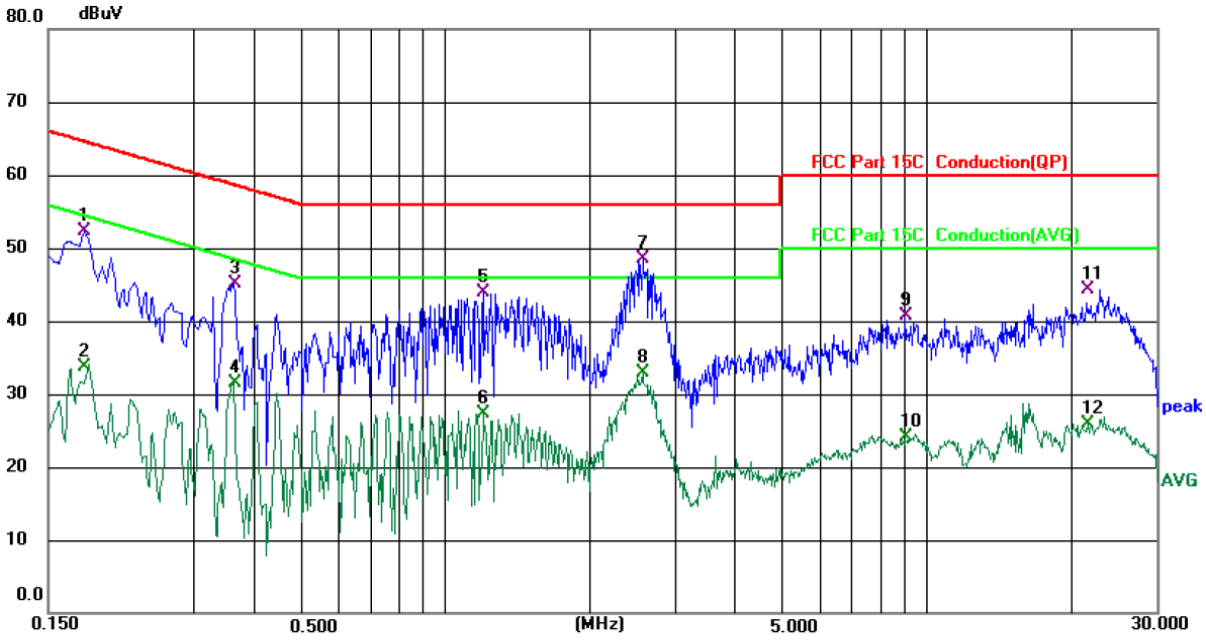
5.2.3. Test data

Please refer to following diagram for individual

Conducted Emission on Line Terminal of the power line (150 kHz to 30MHz)



Site 844 Shielding Room | Phase: *L1* | Temperature: 25.3 (℃) | Humidity: 56 %

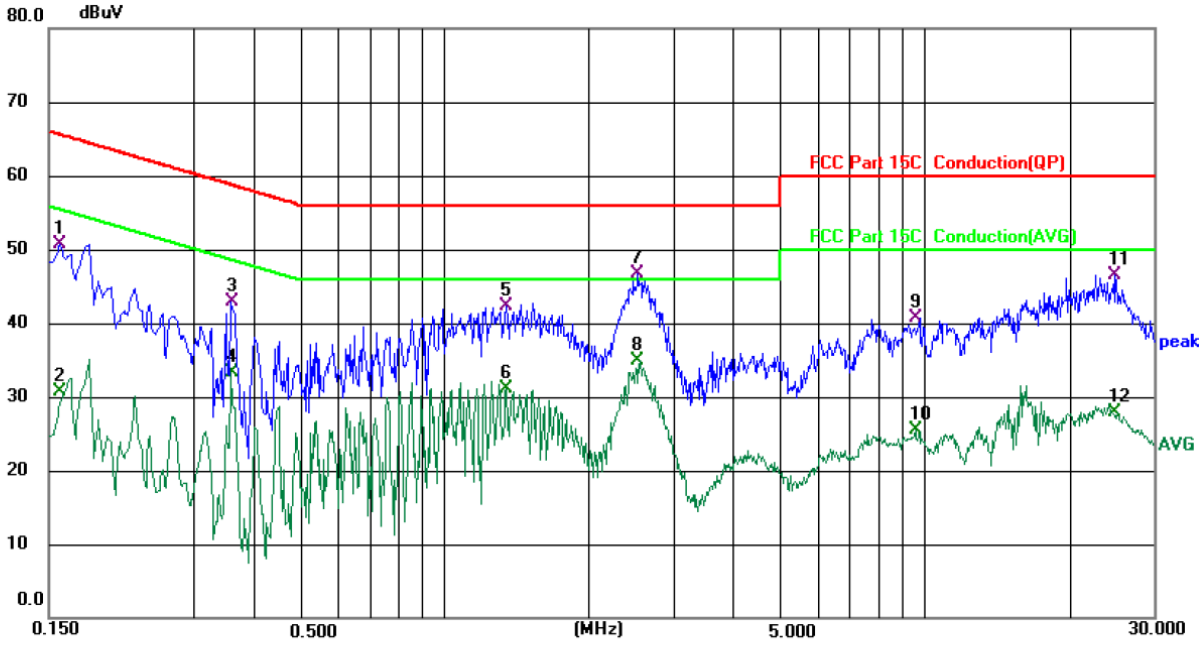
Limit: FCC Part 15C Conduction(QP) | Power:AC 120 V/60 Hz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1779	41.72	10.51	52.23	64.58	-12.35	QP	
2		0.1779	23.24	10.51	33.75	54.58	-20.83	AVG	
3		0.3619	34.97	10.21	45.18	58.68	-13.50	QP	
4		0.3619	21.37	10.21	31.58	48.68	-17.10	AVG	
5		1.2019	33.74	10.09	43.83	56.00	-12.17	QP	
6		1.2019	17.13	10.09	27.22	46.00	-18.78	AVG	
7	*	2.5739	38.43	10.02	48.45	56.00	-7.55	QP	
8		2.5739	22.84	10.02	32.86	46.00	-13.14	AVG	
9		9.0459	30.46	10.18	40.64	60.00	-19.36	QP	
10		9.0459	13.85	10.18	24.03	50.00	-25.97	AVG	
11		21.6060	33.76	10.47	44.23	60.00	-15.77	QP	
12		21.6060	15.43	10.47	25.90	50.00	-24.10	AVG	

Note:

Freq. = Emission frequency in MHz
Reading level (dBμV) = Receiver reading
Corr. Factor (dB) = LISN factor + Cable loss
Measurement (dBμV) = Reading level (dBμV) + Corr. Factor (dB)
Limit (dBμV) = Limit stated in standard
Margin (dB) = Measurement (dBμV) – Limits (dBμV)
Q.P. =Quasi-Peak
AVG =average
** is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.*

Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)



Site 844 Shielding Room | Phase: *N* | Temperature: 25.3 (℃) | Humidity: 56 %

Limit: FCC Part 15C Conduction(QP) | Power:AC 120 V/60 Hz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1580	40.29	10.45	50.74	65.57	-14.83	QP	
2		0.1580	20.30	10.45	30.75	55.57	-24.82	AVG	
3		0.3580	32.70	10.21	42.91	58.77	-15.86	QP	
4		0.3580	23.13	10.21	33.34	48.77	-15.43	AVG	
5		1.3500	32.13	10.12	42.25	56.00	-13.75	QP	
6		1.3500	20.95	10.12	31.07	46.00	-14.93	AVG	
7	*	2.5300	36.60	10.12	46.72	56.00	-9.28	QP	
8		2.5300	24.79	10.12	34.91	46.00	-11.09	AVG	
9		9.5900	30.48	10.30	40.78	60.00	-19.22	QP	
10		9.5900	15.18	10.30	25.48	50.00	-24.52	AVG	
11		24.8300	36.07	10.46	46.53	60.00	-13.47	QP	
12		24.8300	17.38	10.46	27.84	50.00	-22.16	AVG	

Note:

Freq. = Emission frequency in MHz

Reading level (dBμV) = Receiver reading

Corr. Factor (dB) = LISN factor + Cable loss

Measurement (dBμV) = Reading level (dBμV) + Corr. Factor (dB)

Limit (dBμV) = Limit stated in standard

Margin (dB) = Measurement (dBμV) – Limits (dBμV)

Q.P. =Quasi-Peak

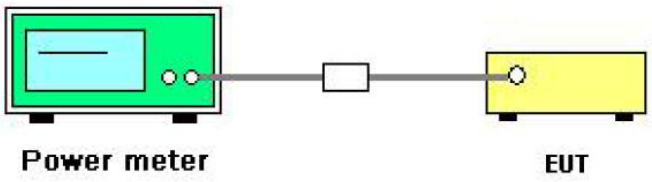
AVG =average

** is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.*

Measurements were conducted in all three channels (high, middle, low) and all modulation (802.11a, 802.11n(HT20), 802.11n(HT40), 802.11ac(VHT20), 802.11ac(VHT40), 802.11ac(VHT80) and the worst case Mode (Highest channel and 802.11a) was submitted only.

5.3. Maximum Conducted Output Power

5.3.1. Test Specification

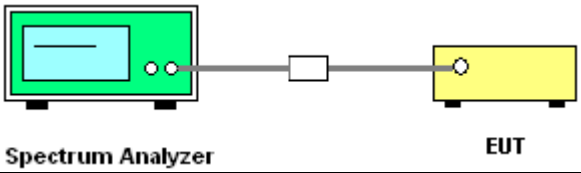
<table>
<tr><td>Test Requirement:</td><td>FCC Part15 E Section 15.407(a)& Part 2 J Section 2.1046</td></tr>
<tr><td>Test Method:</td><td>KDB662911 D01 Multiple Transmitter Output v02r01
KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section E</td></tr>
<tr><td>Limit:</td><td>
<table>
<tr><td>Frequency Band (MHz)</td><td>Limit</td></tr>
<tr><td>5180 - 5240</td><td>24dBm(250mW) for client device</td></tr>
<tr><td>5260 - 5320</td><td>24dBm(250mW) or 11 dBm + 10 log B, B is the 26 dB emission bandwidth in megahertz</td></tr>
<tr><td>5470 - 5725</td><td>24dBm(250mW) or 11 dBm + 10 log B, B is the 26 dB emission bandwidth in megahertz</td></tr>
<tr><td>5745 - 5825</td><td>30dBm(1W)</td></tr>
</table>
</td></tr>
<tr><td>Test Setup:</td><td> 
</td></tr>
<tr><td>Test Mode:</td><td>Transmitting mode with modulation</td></tr>
<tr><td>Test Procedure:</td><td>1. The testing follows the Measurement Procedure of KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section E, 3, a
2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
5. Measure the conducted output power and record the results in the test report.</td></tr>
<tr><td>Test Result:</td><td>PASS</td></tr>
<tr><td>Remark:</td><td>Conducted output power= measurement power +10log(1/x) X is duty cycle=1, so 10log(1/1)=0
Conducted output power= measurement power</td></tr>
</table>

5.3.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jul. 04, 2023
Power Meter	Agilent	E4418B	MY45100357	Jul. 04, 2023
Power Sensor	Agilent	8481A	MY41091497	Jul. 04, 2023
Combiner Box	Ascentest	AT890-RFB	/	/

5.4. 6dB Emission Bandwidth

5.4.1. Test Specification

Test Requirement:	FCC CFR47 Part 15 Section 15.407(e)& Part 2 J Section 2.1049
Test Method:	KDB662911 D01 Multiple Transmitter Output v02r01 KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section C
Limit:	>500kHz
Test Setup:	
Test Mode:	Transmitting mode with modulation
Test Procedure:	1. KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section C 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz. 4. Measure and record the results in the test report.
Test Result:	PASS

5.4.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jul. 04, 2023
Combiner Box	Ascentest	AT890-RFB	/	/

5.5. 26dB Bandwidth and 99% Occupied Bandwidth

5.5.1. Test Specification

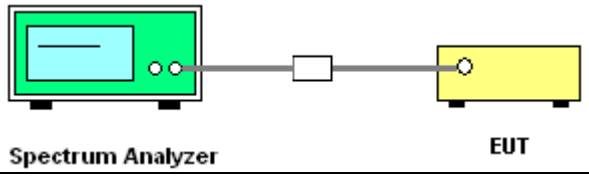
Test Requirement:	47 CFR Part 15C Section 15.407 (a)& Part 2 J Section 2.1049
Test Method:	KDB662911 D01 Multiple Transmitter Output v02r01 KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section D
Limit:	No restriction limits
Test Setup:	
Test Mode:	Transmitting mode with modulation
Test Procedure:	1. KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section D 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 1% to 5% of the OBW. Set the Video bandwidth (VBW) = 3 *RBW. In order to make an accurate measurement. 4. Measure and record the results in the test report.
Test Result:	PASS

5.5.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jul. 04, 2023
Combiner Box	Ascentest	AT890-RFB	/	/

5.6. Power Spectral Density

5.6.1. Test Specification

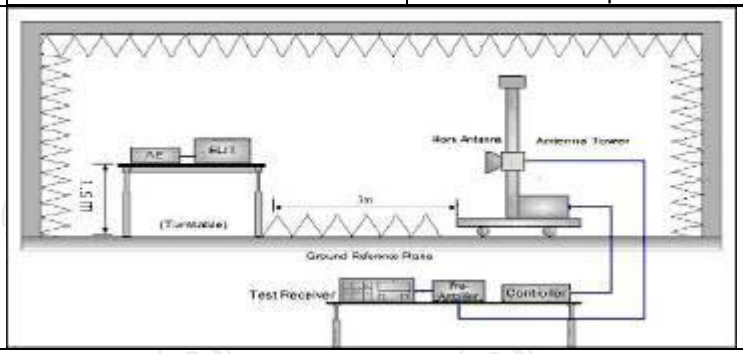
Test Requirement:	FCC Part15 E Section 15.407 (a)
Test Method:	KDB662911 D01 Multiple Transmitter Output v02r01 KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section F
Limit:	≤11.00dBm/MHz for Band 1 5150MHz-5250MHz(client device) ≤11.00dBm/MHz for Band 2A&2C 5250-5350&5470-5725 ≤30.00dBm/500KHz for Band 3 5725MHz-5850MHz
Test Setup:	
Test Mode:	Transmitting mode with modulation
Test Procedure:	1. Set the spectrum analyzer or EMI receiver span to view the entire emission bandwidth. 1. Set RBW = 510 kHz/1 MHz, VBW ≥ 3*RBW, Sweep time = Auto, Detector = RMS. 2. Allow the sweeps to continue until the trace stabilizes. 3. Use the peak marker function to determine the maximum amplitude level.
Test Result:	PASS

5.6.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jul. 04, 2023
Combiner Box	Ascentest	AT890-RFB	/	/

5.7. Band edge

5.7.1. Test Specification

<table>
<tr><td>Test Requirement:</td><td>FCC CFR47 Part 15E Section 15.407</td></tr>
<tr><td>Test Method:</td><td>ANSI C63.10 2013</td></tr>
<tr><td>Limit:</td><td>In un-restricted band:
For Band 1&2A&2C: -27dBm/MHz
For Band 3:
<table>
<tr><td>Frequency (MHz)</td><td>Limit (dBm/MHz)</td><td>Frequency (MHz)</td><td>Limit (dBm/MHz)</td></tr>
<tr><td>< 5650</td><td>-27</td><td>5850~5855</td><td>27~15.6</td></tr>
<tr><td>650~5700</td><td>-27~10</td><td>5855~5875</td><td>15.6~10</td></tr>
<tr><td>5700~5720</td><td>10~15.6</td><td>5875~5925</td><td>10~-27</td></tr>
<tr><td>5720~5725</td><td>15.6~27</td><td>> 5925</td><td>-27</td></tr>
</table>
E[dBμV/m] = EIRP[dBm] + 95.2 @3m
In restricted band:
<table>
<tr><td>Detector</td><td>Limit@3m</td></tr>
<tr><td>Peak</td><td>74dBμV/m</td></tr>
<tr><td>AVG</td><td>54dBμV/m</td></tr>
</table></td></tr>
<tr><td>Test Setup:</td><td> 
</td></tr>
<tr><td>Test Mode:</td><td>Transmitting mode with modulation</td></tr>
<tr><td>Test Procedure:</td><td>1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
3. The 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.
4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold</td></tr>
</table>

	Mode. 6. 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, quasipeak or average method as specified and then reported in a data sheet.
Test Result:	PASS

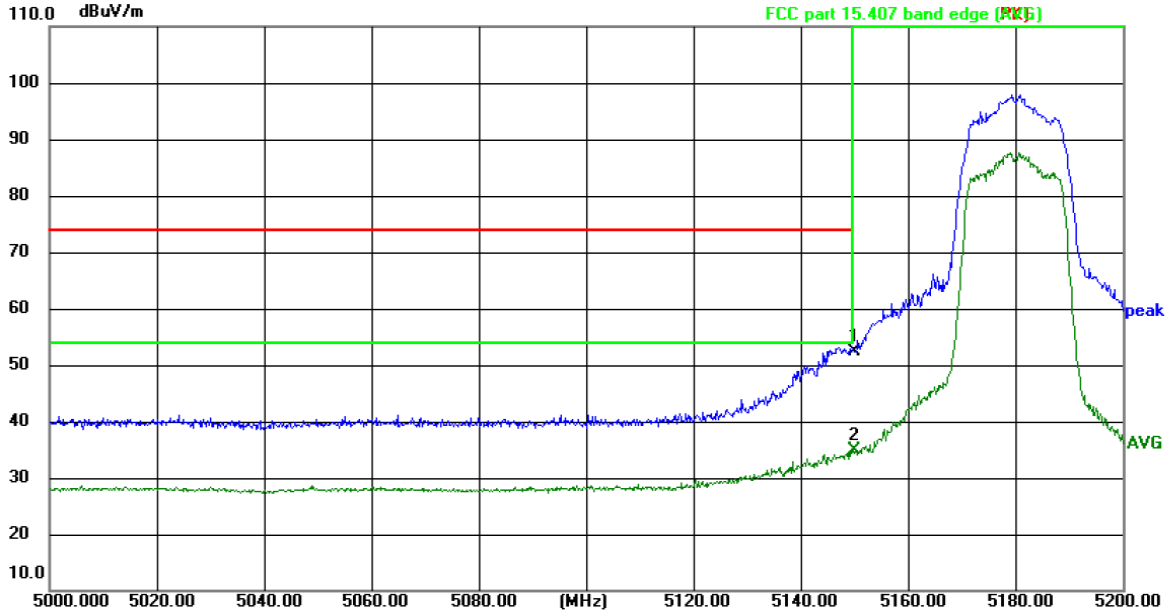
5.7.2. Test Instruments

Radiated Emission Test Site (966)				
Name of Equipment	**Manufacturer**	**Model**	**Serial Number**	**Calibration Due**
EMI Test Receiver	R&S	ESIB7	100197	Jul. 03, 2023
Spectrum Analyzer	R&S	FSQ40	200061	Jul. 03, 2023
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jul. 04, 2023
Pre-amplifier	SKET	LNPA_0118G-45	SK2021012102	Feb. 24, 2023
Pre-amplifier	SKET	LNPA_1840G-50	SK202109203500	Feb. 24, 2023
Pre-amplifier	HP	8447D	2727A05017	Jul. 03, 2023
Loop antenna	Schwarzbeck	FMZB1519B	00191	Jun. 11, 2024
Broadband Antenna	Schwarzbeck	VULB9163	340	Jul. 05, 2024
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Jul. 05, 2024
Horn Antenna	Schwarzbeck	BBHA 9170	00956	Apr. 10, 2023
Coaxial cable	SKET	RC-18G-N-M	/	Feb. 24, 2024
Coaxial cable	SKET	RC_40G-K-M	/	Feb. 24, 2024
Antenna Mast	Keleto	CC-A-4M	/	/
EMI Test Software	Shurple Technology	EZ-EMC	/	/

Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com

5.7.3. Test Data

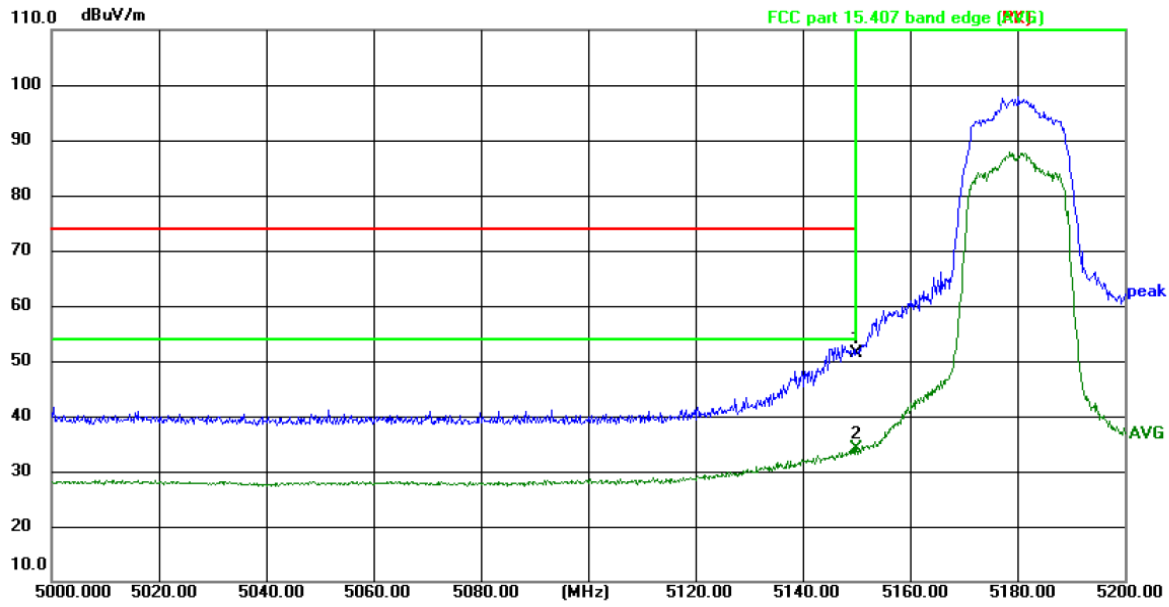
AC20-5180



Site: #3 3m Anechoic Chamber Polarization: ***Horizontal*** Temperature: 21.3(℃) Humidity: 50 %

Limit: FCC part 15.407 band edge (PK) Power:AC 120 V/60 Hz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5150.000	62.15	-9.85	52.30	74.00	-21.70	peak	P	
2 *	5150.000	44.81	-9.85	34.96	54.00	-19.04	AVG	P	

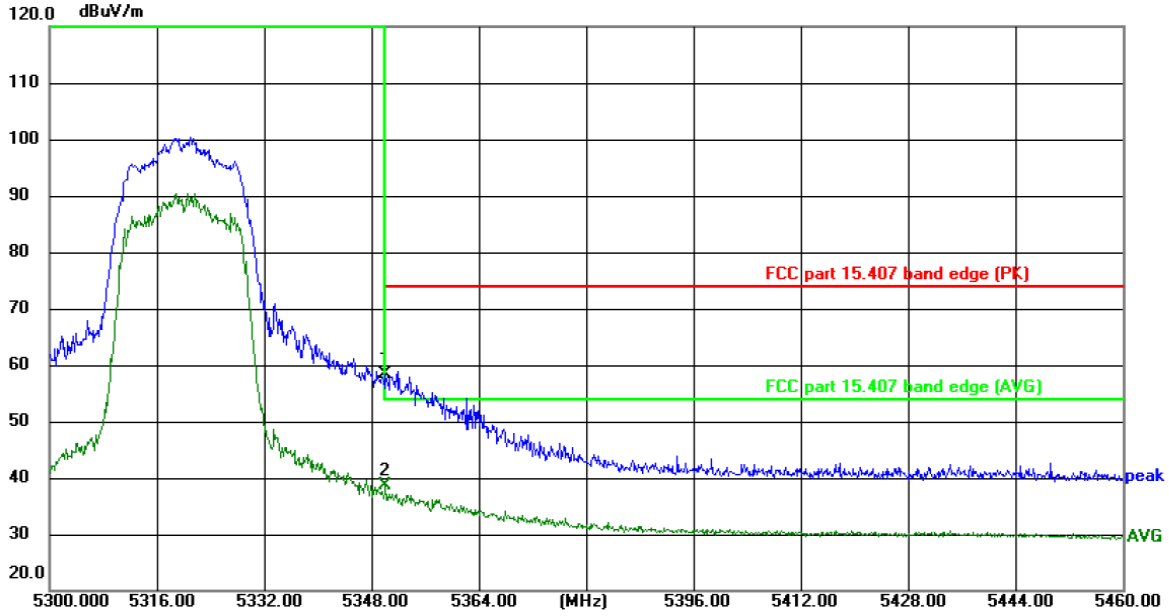


Site: #3 3m Anechoic Chamber Polarization: ***Vertical*** Temperature: 21.3(℃) Humidity: 50 %

Limit: FCC part 15.407 band edge (PK) Power:AC 120 V/60 Hz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5150.000	61.34	-9.85	51.49	74.00	-22.51	peak	P	
2 *	5150.000	43.98	-9.85	34.13	54.00	-19.87	AVG	P	

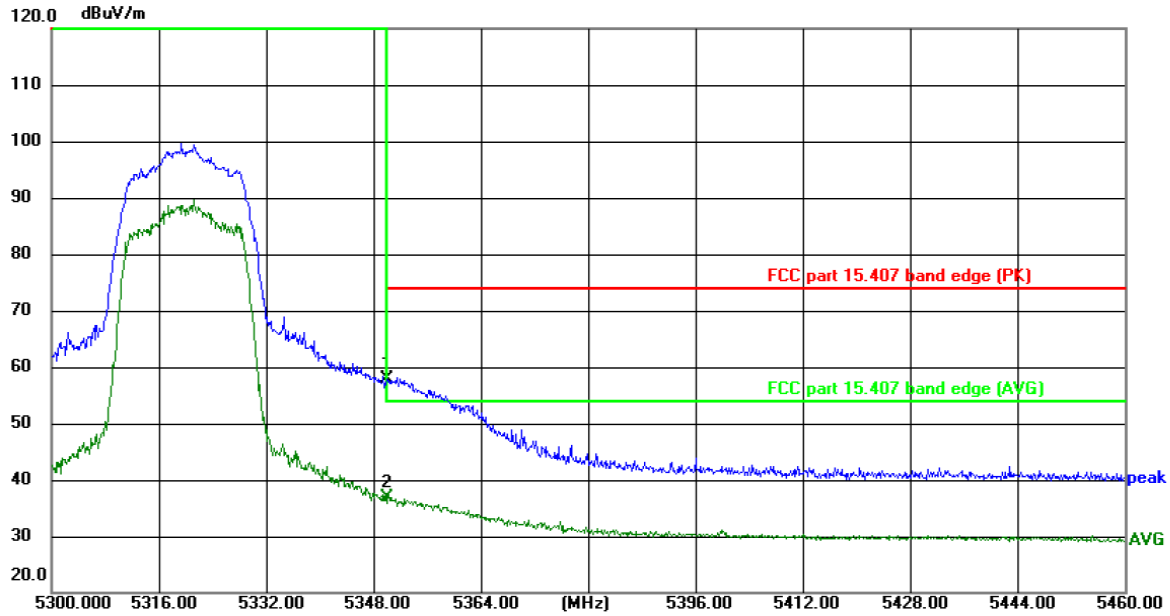
AC20-5320



Site: #3 3m Anechoic Chamber Polarization: ***Horizontal*** Temperature: 21.3(℃) Humidity: 50 %

Limit: FCC part 15.407 band edge (PK) Power:AC 120 V/60 Hz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5350.000	67.76	-9.43	58.33	74.00	-15.67	peak	P	
2 *	5350.000	48.15	-9.43	38.72	54.00	-15.28	AVG	P	

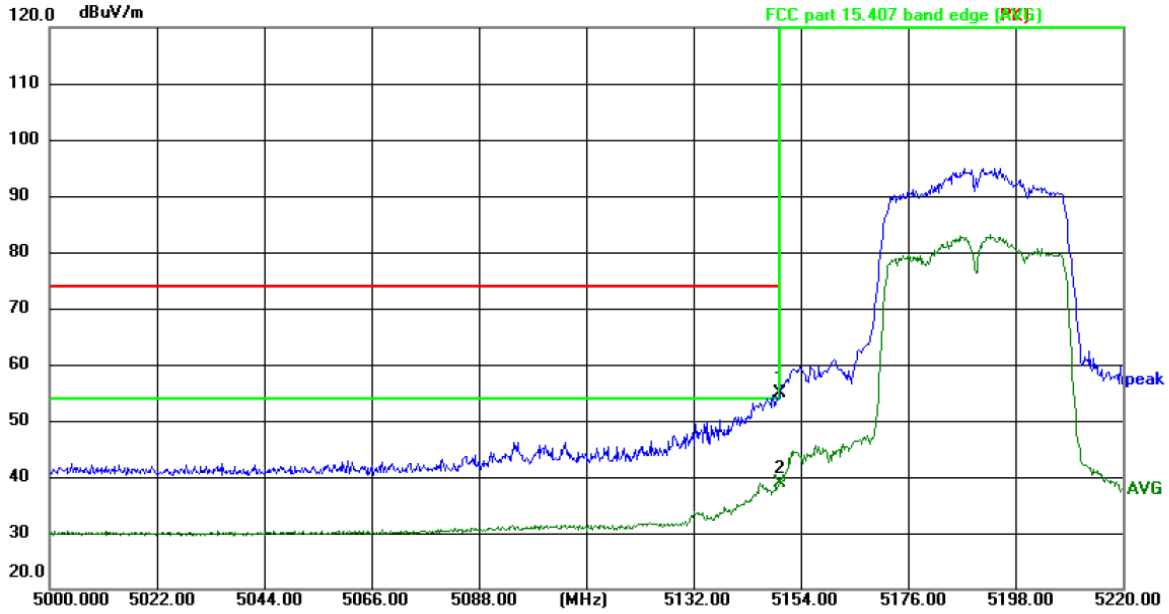


Site: #3 3m Anechoic Chamber Polarization: ***Vertical*** Temperature: 21.3(℃) Humidity: 50 %

Limit: FCC part 15.407 band edge (PK) Power:AC 120 V/60 Hz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5350.000	67.35	-9.43	57.92	74.00	-16.08	peak	P	
2	5350.000	46.22	-9.43	36.79	54.00	-17.21	AVG	P	

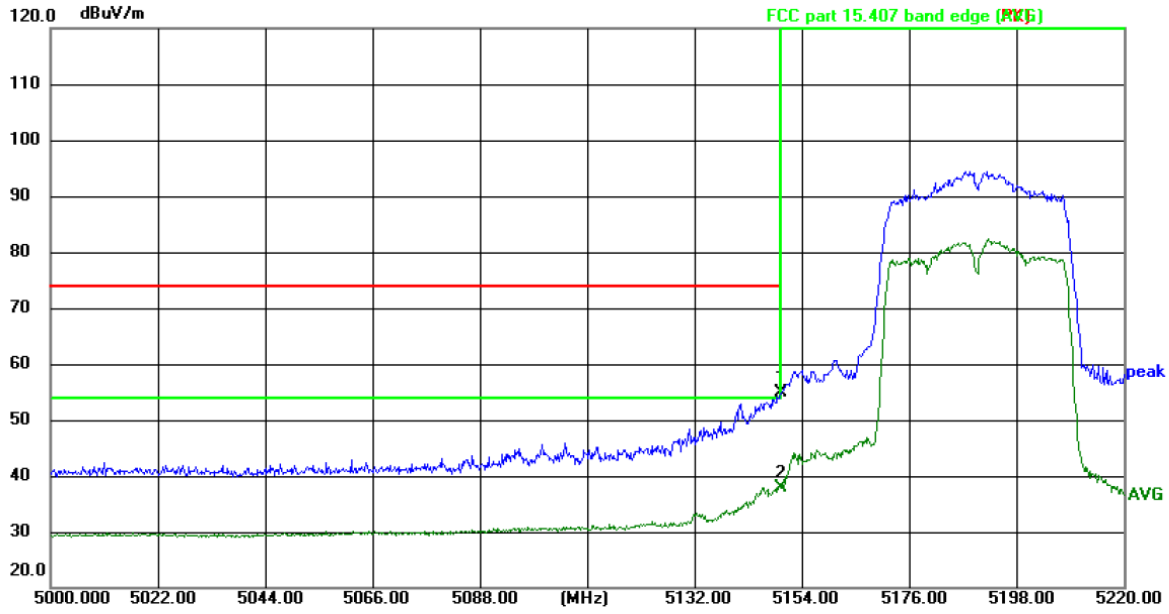
AC40-5190



Site: #3 3m Anechoic Chamber Polarization: ***Horizontal*** Temperature: 21.3(℃) Humidity: 50 %

Limit: FCC part 15.407 band edge (PK) Power:AC 120 V/60 Hz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5150.000	64.84	-9.85	54.99	74.00	-19.01	peak	P	
2 *	5150.000	48.65	-9.85	38.80	54.00	-15.20	AVG	P	

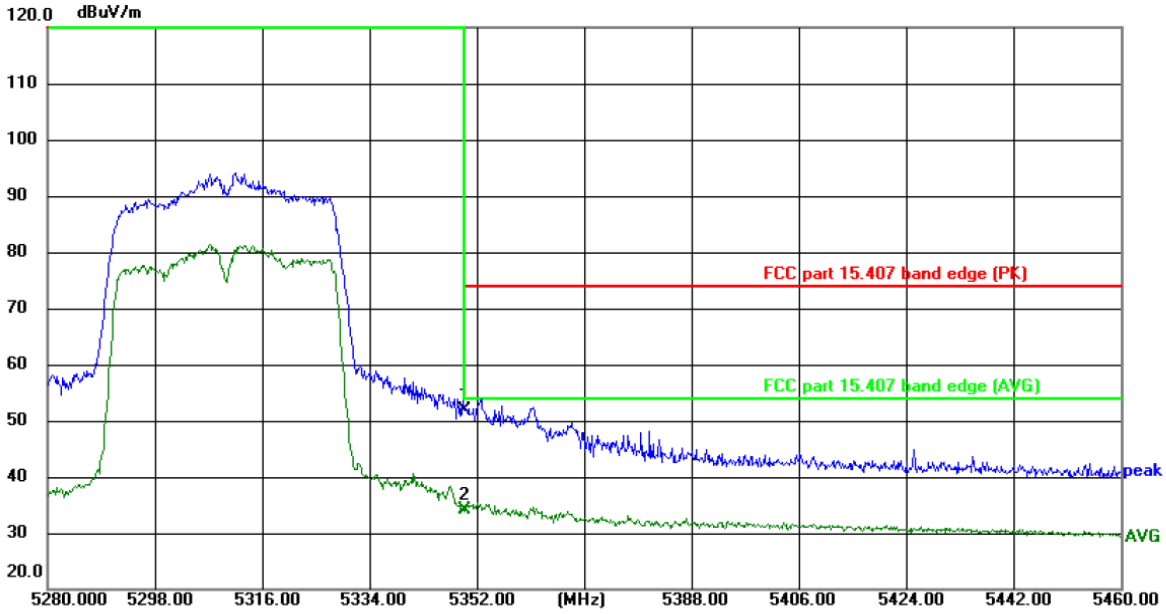


Site: #3 3m Anechoic Chamber Polarization: ***Vertical*** Temperature: 21.3(℃) Humidity: 50 %

Limit: FCC part 15.407 band edge (PK) Power:AC 120 V/60 Hz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5150.000	64.76	-9.85	54.91	74.00	-19.09	peak	P	
2 *	5150.000	47.79	-9.85	37.94	54.00	-16.06	AVG	P	

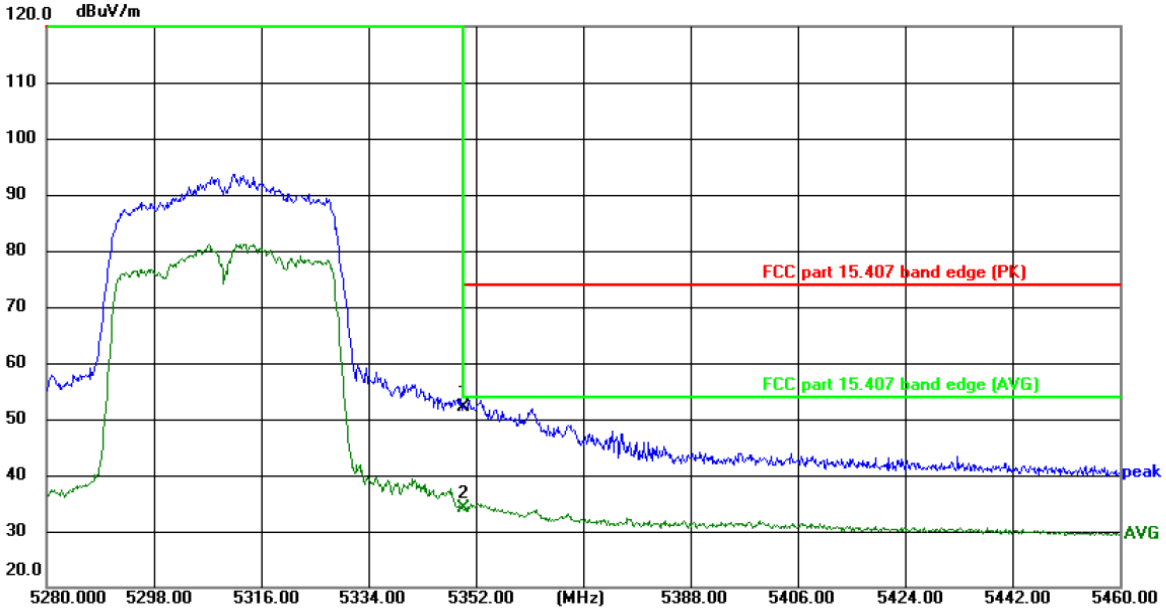
AC40-5310



Site: #3 3m Anechoic Chamber Polarization: ***Horizontal*** Temperature: 21.3(℃) Humidity: 50 %

Limit: FCC part 15.407 band edge (PK) Power:AC 120 V/60 Hz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5350.000	61.25	-9.43	51.82	74.00	-22.18	peak	P	
2 *	5350.000	43.60	-9.43	34.17	54.00	-19.83	AVG	P	

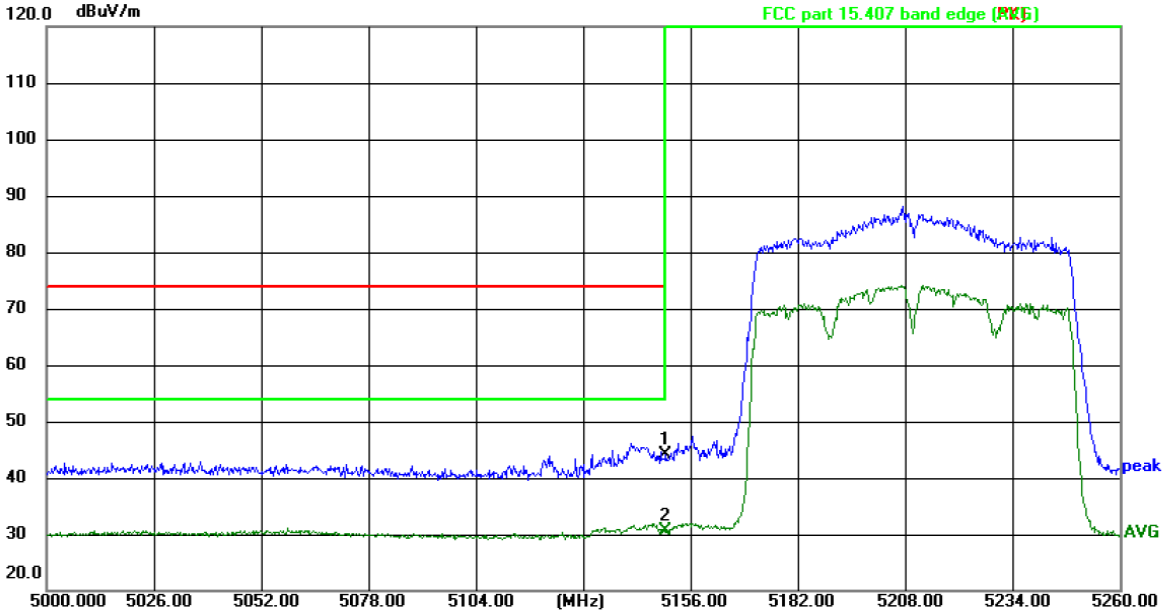


Site: #3 3m Anechoic Chamber Polarization: ***Vertical*** Temperature: 21.3(℃) Humidity: 50 %

Limit: FCC part 15.407 band edge (PK) Power:AC 120 V/60 Hz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5350.000	61.50	-9.43	52.07	74.00	-21.93	peak	P	
2 *	5350.000	43.62	-9.43	34.19	54.00	-19.81	AVG	P	

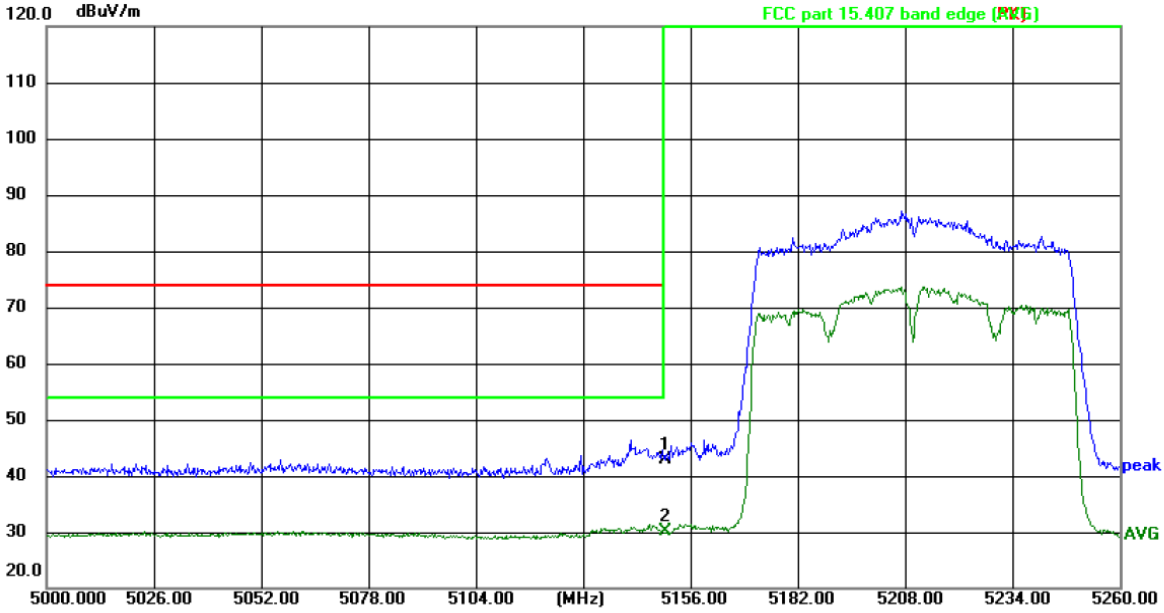
AC80-5210



Site: #3 3m Anechoic Chamber Polarization: ***Horizontal*** Temperature: 21.3(℃) Humidity: 50 %

Limit: FCC part 15.407 band edge (PK) Power:AC 120 V/60 Hz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5150.000	53.99	-9.85	44.14	74.00	-29.86	peak	P	
2 *	5150.000	40.37	-9.85	30.52	54.00	-23.48	AVG	P	

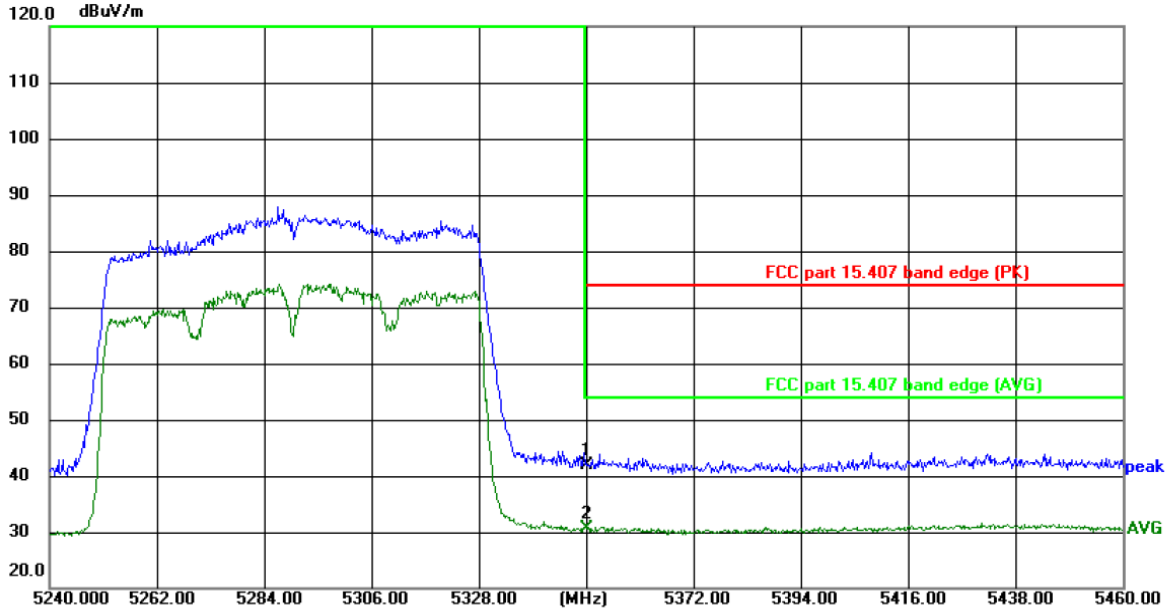


Site: #3 3m Anechoic Chamber Polarization: ***Vertical*** Temperature: 21.3(℃) Humidity: 50 %

Limit: FCC part 15.407 band edge (PK) Power:AC 120 V/60 Hz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5150.000	52.78	-9.85	42.93	74.00	-31.07	peak	P	
2 *	5150.000	40.10	-9.85	30.25	54.00	-23.75	AVG	P	

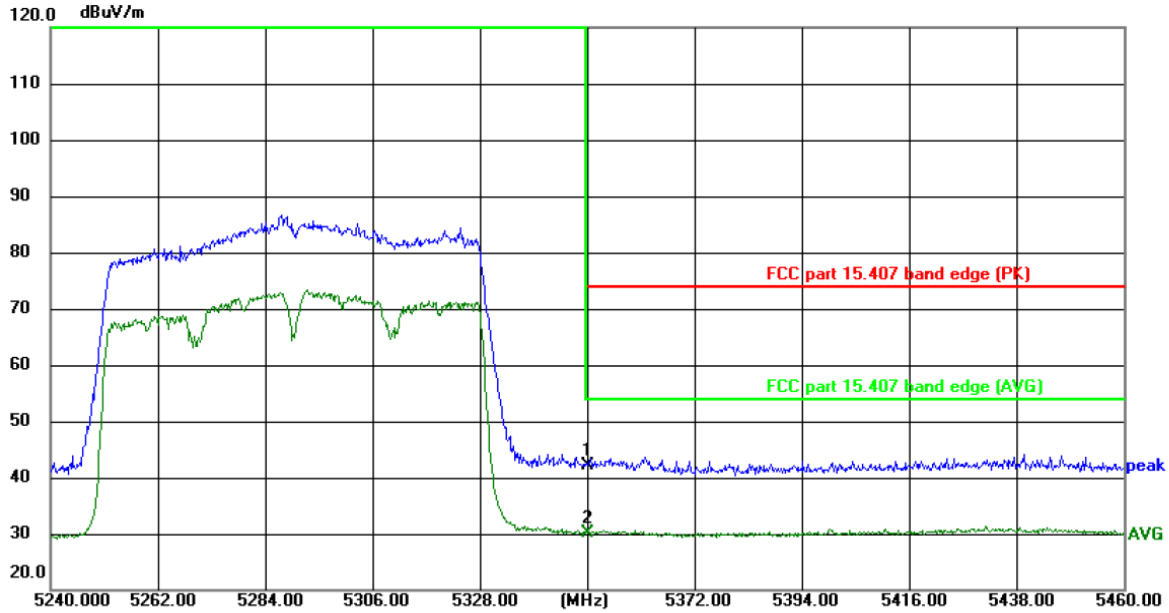
AC80-5290



Site: #3 3m Anechoic Chamber Polarization: ***Horizontal*** Temperature: 21.3(℃) Humidity: 50 %

Limit: FCC part 15.407 band edge (PK) Power:AC 120 V/60 Hz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5350.000	51.28	-9.43	41.85	74.00	-32.15	peak	P	
2 *	5350.000	40.13	-9.43	30.70	54.00	-23.30	AVG	P	

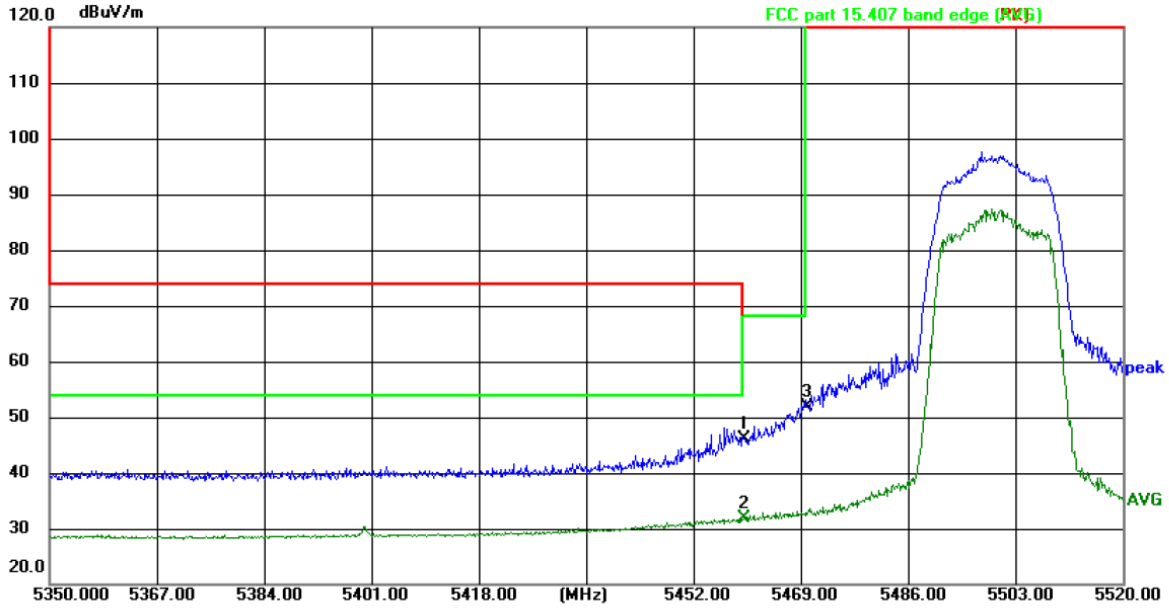


Site: #3 3m Anechoic Chamber Polarization: ***Vertical*** Temperature: 21.3(℃) Humidity: 50 %

Limit: FCC part 15.407 band edge (PK) Power:AC 120 V/60 Hz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5350.000	51.54	-9.43	42.11	74.00	-31.89	peak	P	
2 *	5350.000	39.68	-9.43	30.25	54.00	-23.75	AVG	P	

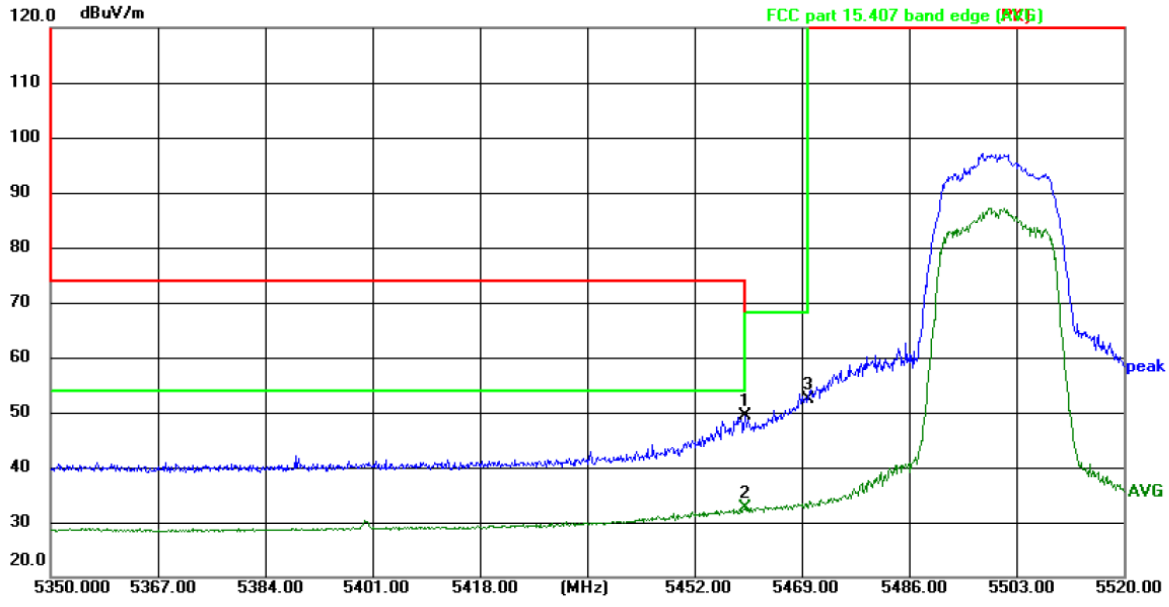
AC20-5500



Site: #3 3m Anechoic Chamber Polarization: ***Horizontal*** Temperature: 21.3(℃) Humidity: 50 %

Limit: FCC part 15.407 band edge (PK) Power:AC 120 V/60 Hz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5460.000	55.23	-9.16	46.07	68.20	-22.13	peak	P	
2	5460.000	41.15	-9.16	31.99	54.00	-22.01	AVG	P	
3 *	5470.000	60.98	-9.16	51.82	68.20	-16.38	peak	P	

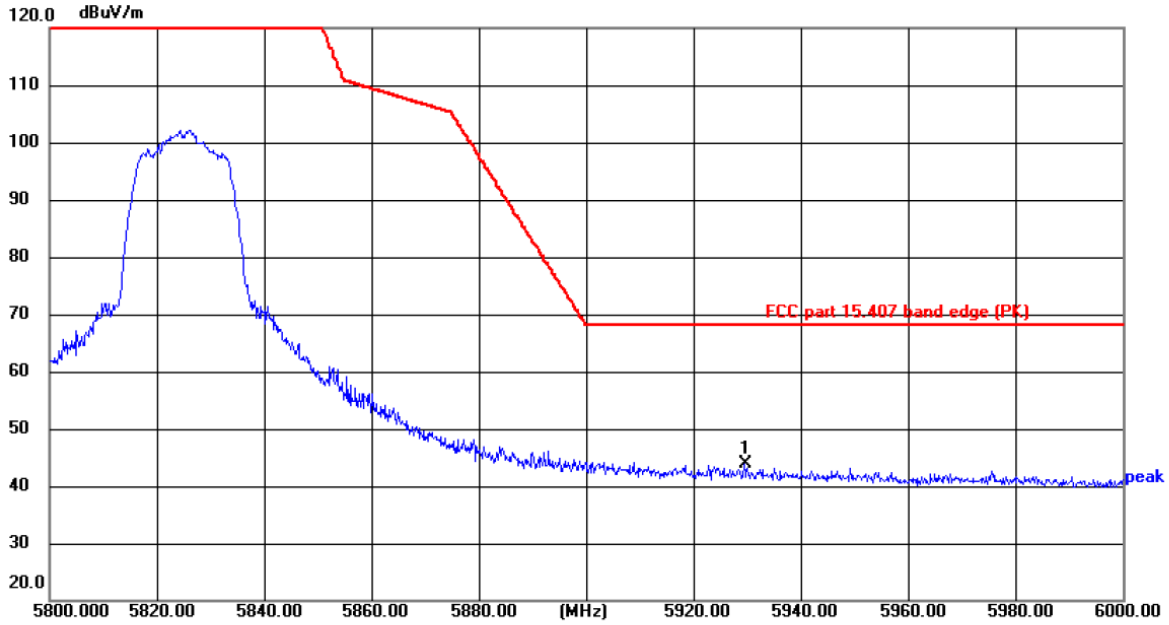


Site: #3 3m Anechoic Chamber Polarization: ***Vertical*** Temperature: 21.3(℃) Humidity: 50 %

Limit: FCC part 15.407 band edge (PK) Power:AC 120 V/60 Hz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5460.000	58.47	-9.16	49.31	68.20	-18.89	peak	P	
2	5460.000	41.90	-9.16	32.74	54.00	-21.26	AVG	P	
3 *	5470.000	61.56	-9.16	52.40	68.20	-15.80	peak	P	

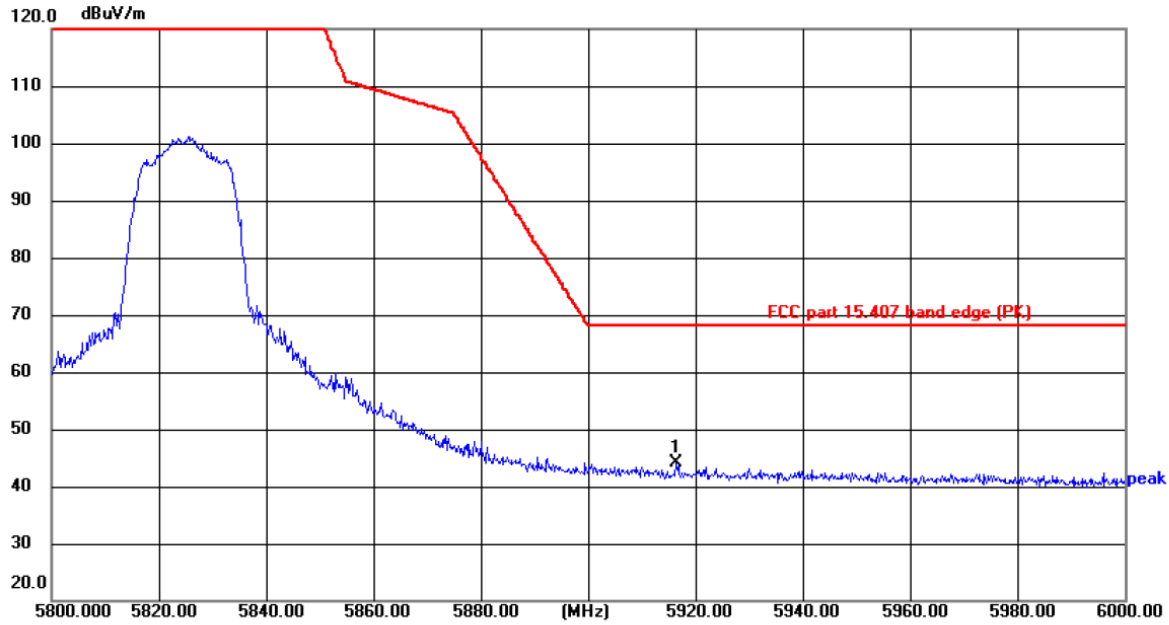
AC20-5825



Site: #3 3m Anechoic Chamber Polarization: ***Horizontal*** Temperature: 21.3(℃) Humidity: 50 %

Limit: FCC part 15.407 band edge (PK) Power:AC 120 V/60 Hz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5929.467	51.79	-7.95	43.84	68.20	-24.36	peak	P	

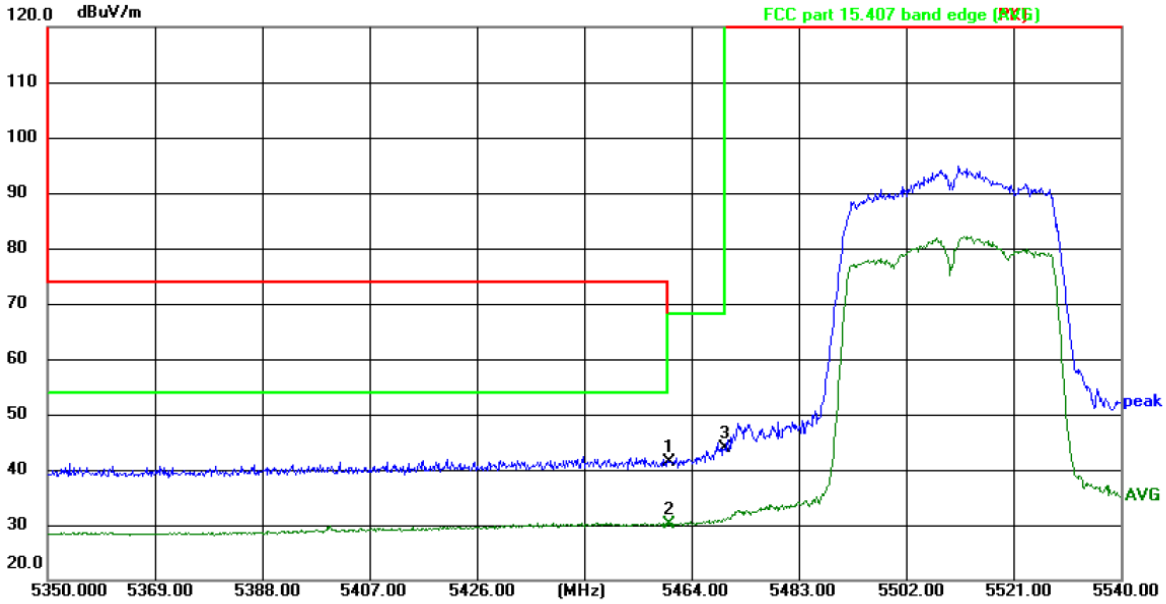


Site: #3 3m Anechoic Chamber Polarization: ***Vertical*** Temperature: 21.3(℃) Humidity: 50 %

Limit: FCC part 15.407 band edge (PK) Power:AC 120 V/60 Hz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5916.533	52.15	-7.93	44.22	68.20	-23.98	peak	P	

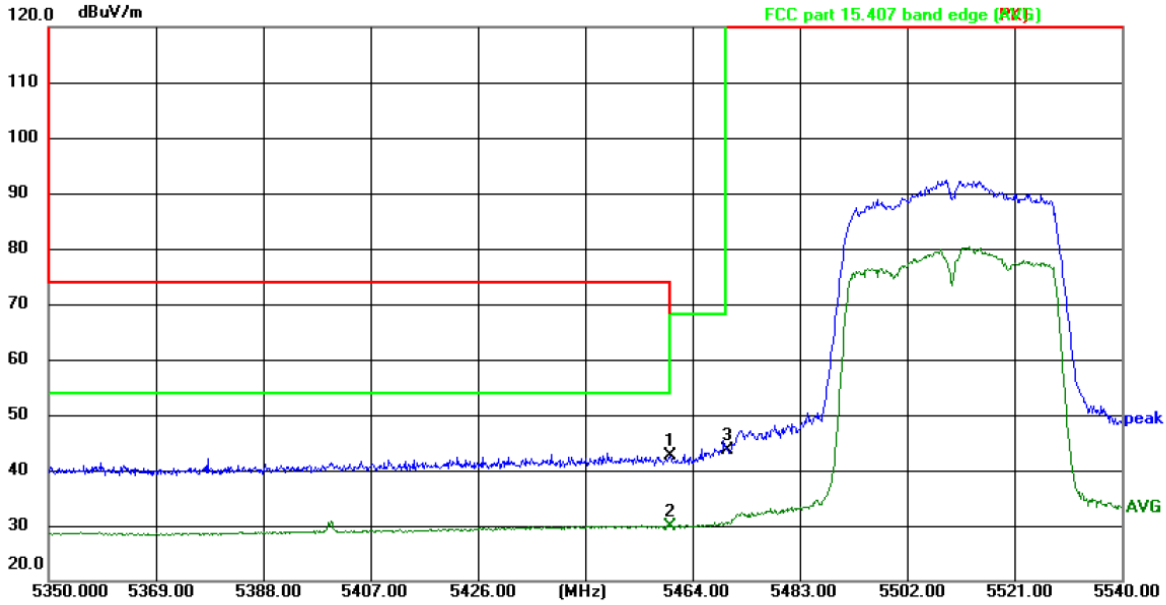
AC40-5510



Site: #3 3m Anechoic Chamber Polarization: ***Horizontal*** Temperature: 21.3(℃) Humidity: 50 %

Limit: FCC part 15.407 band edge (PK) Power:AC 120 V/60 Hz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5460.000	50.46	-9.16	41.30	68.20	-26.90	peak	P	
2 *	5460.000	39.25	-9.16	30.09	54.00	-23.91	AVG	P	
3	5470.000	53.07	-9.16	43.91	68.20	-24.29	peak	P	

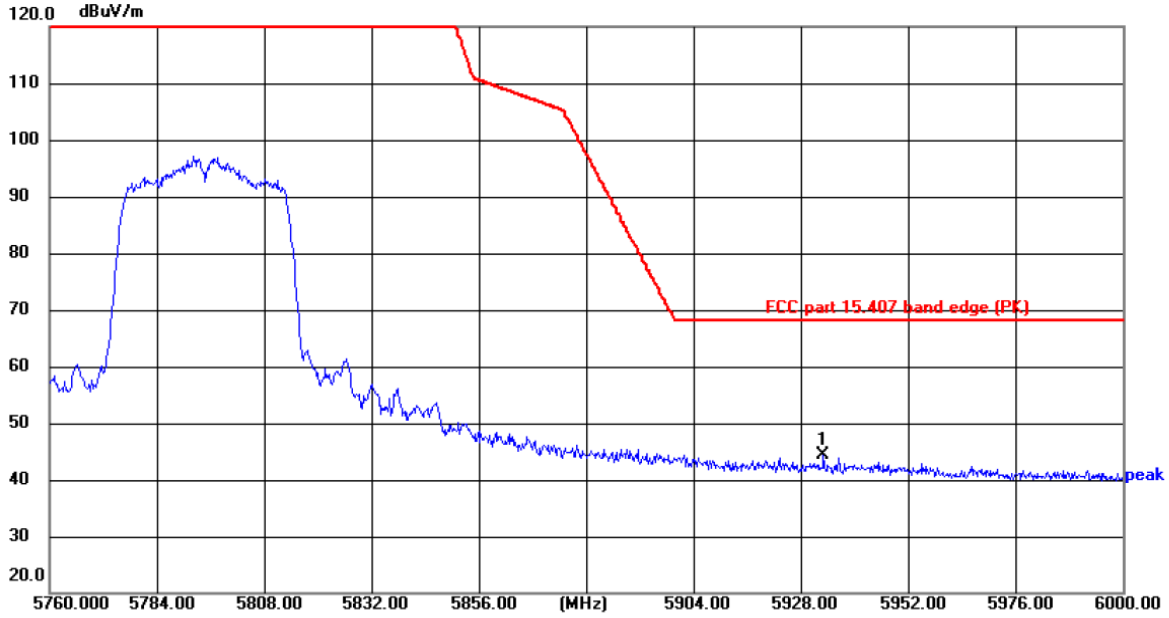


Site: #3 3m Anechoic Chamber Polarization: ***Vertical*** Temperature: 21.3(℃) Humidity: 50 %

Limit: FCC part 15.407 band edge (PK) Power:AC 120 V/60 Hz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5460.000	51.70	-9.16	42.54	68.20	-25.66	peak	P	
2 *	5460.000	38.99	-9.16	29.83	54.00	-24.17	AVG	P	
3	5470.000	52.75	-9.16	43.59	68.20	-24.61	peak	P	

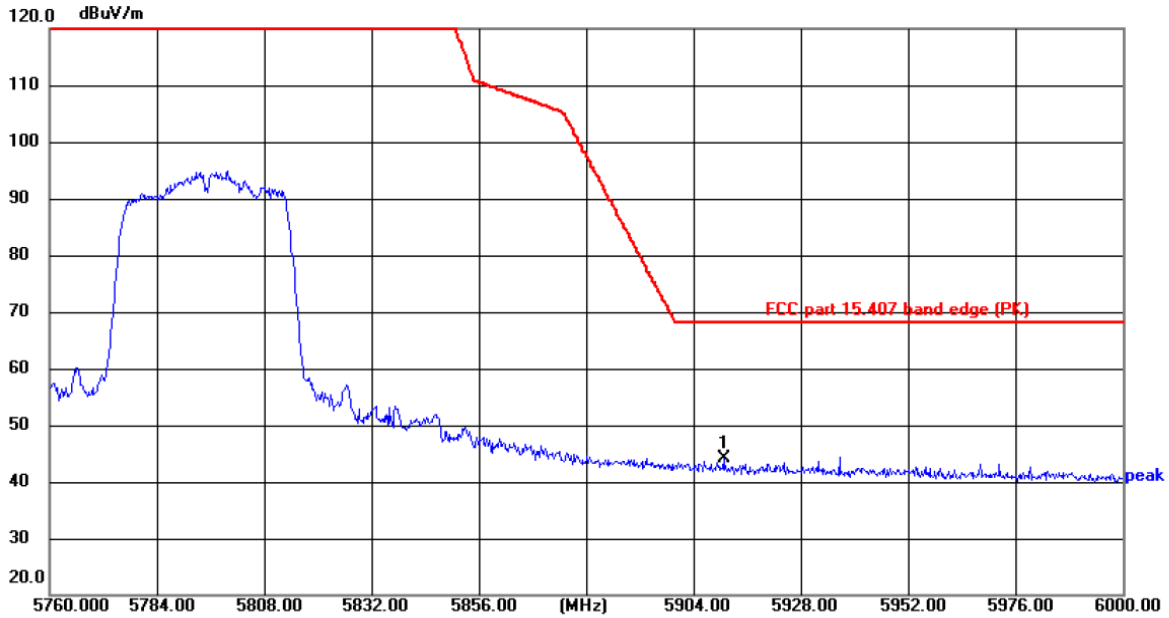
AC40-5795



Site: #3 3m Anechoic Chamber Polarization: ***Horizontal*** Temperature: 21.3(℃) Humidity: 50 %

Limit: FCC part 15.407 band edge (PK) Power:AC 120 V/60 Hz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5933.200	52.37	-7.96	44.41	68.20	-23.79	peak	P	

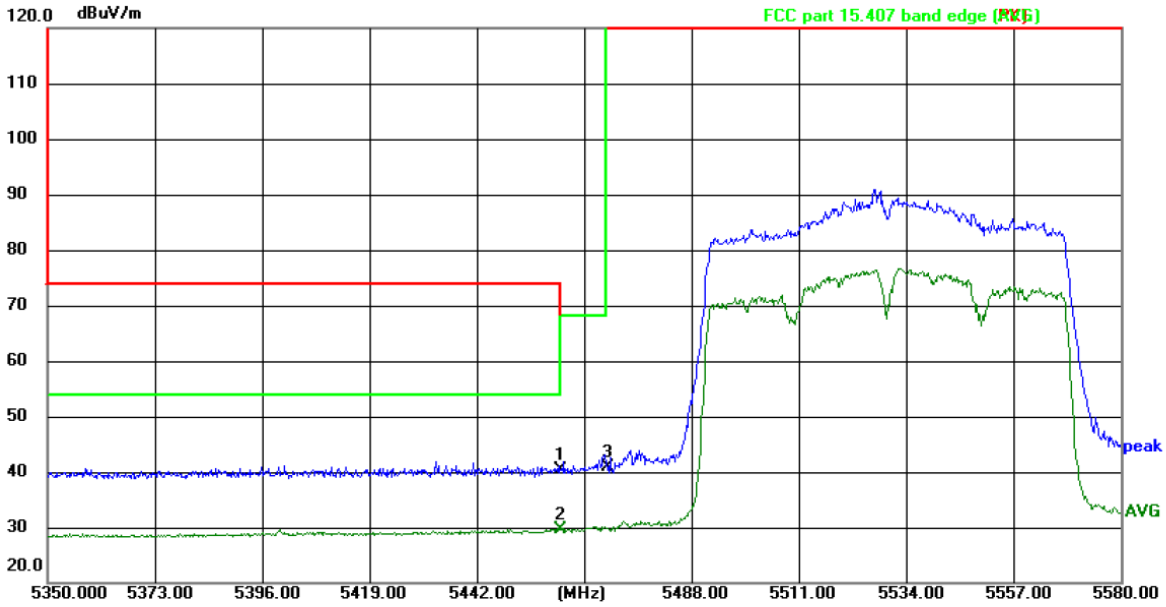


Site: #3 3m Anechoic Chamber Polarization: ***Vertical*** Temperature: 21.3(℃) Humidity: 50 %

Limit: FCC part 15.407 band edge (PK) Power:AC 120 V/60 Hz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5910.800	51.93	-7.92	44.01	68.20	-24.19	peak	P	

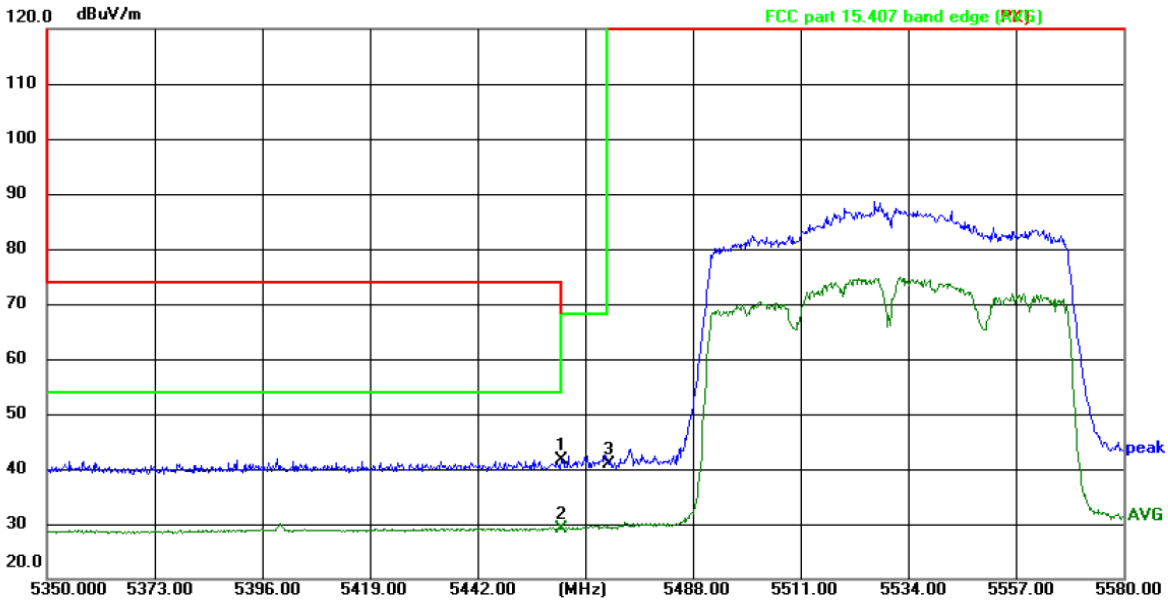
AC80-5530



Site: #3 3m Anechoic Chamber Polarization: ***Horizontal*** Temperature: 21.3(℃) Humidity: 50 %

Limit: FCC part 15.407 band edge (PK) Power:AC 120 V/60 Hz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5460.000	49.65	-9.16	40.49	68.20	-27.71	peak	P	
2 *	5460.000	38.79	-9.16	29.63	54.00	-24.37	AVG	P	
3	5470.000	49.98	-9.16	40.82	68.20	-27.38	peak	P	

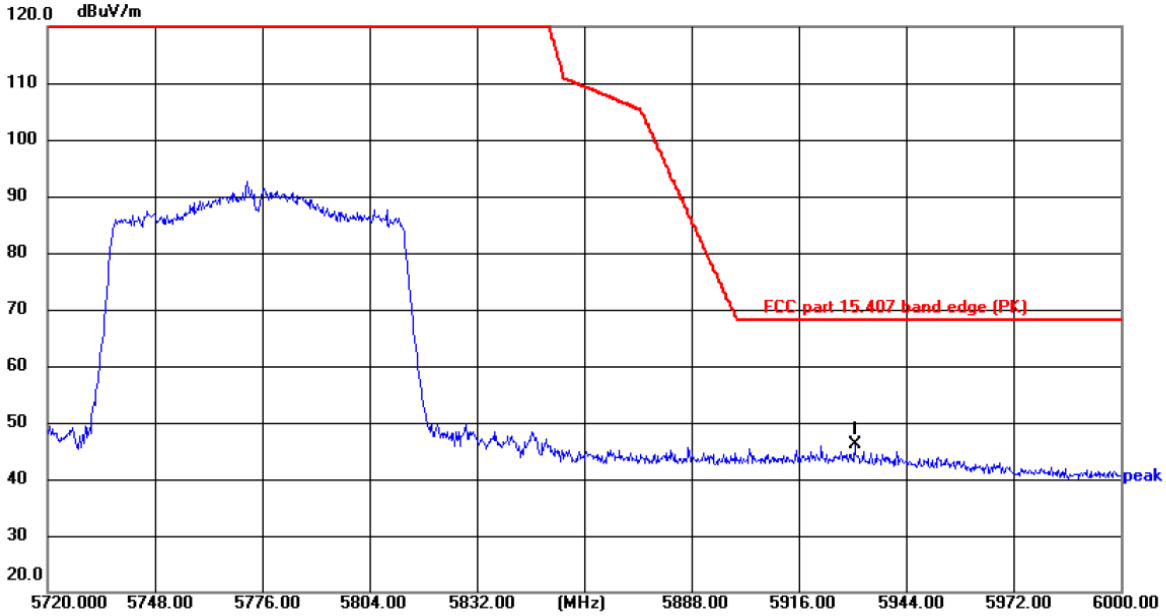


Site: #3 3m Anechoic Chamber Polarization: ***Vertical*** Temperature: 21.3(℃) Humidity: 50 %

Limit: FCC part 15.407 band edge (PK) Power:AC 120 V/60 Hz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5460.000	50.70	-9.16	41.54	68.20	-26.66	peak	P	
2 *	5460.000	38.26	-9.16	29.10	54.00	-24.90	AVG	P	
3	5470.000	50.09	-9.16	40.93	68.20	-27.27	peak	P	

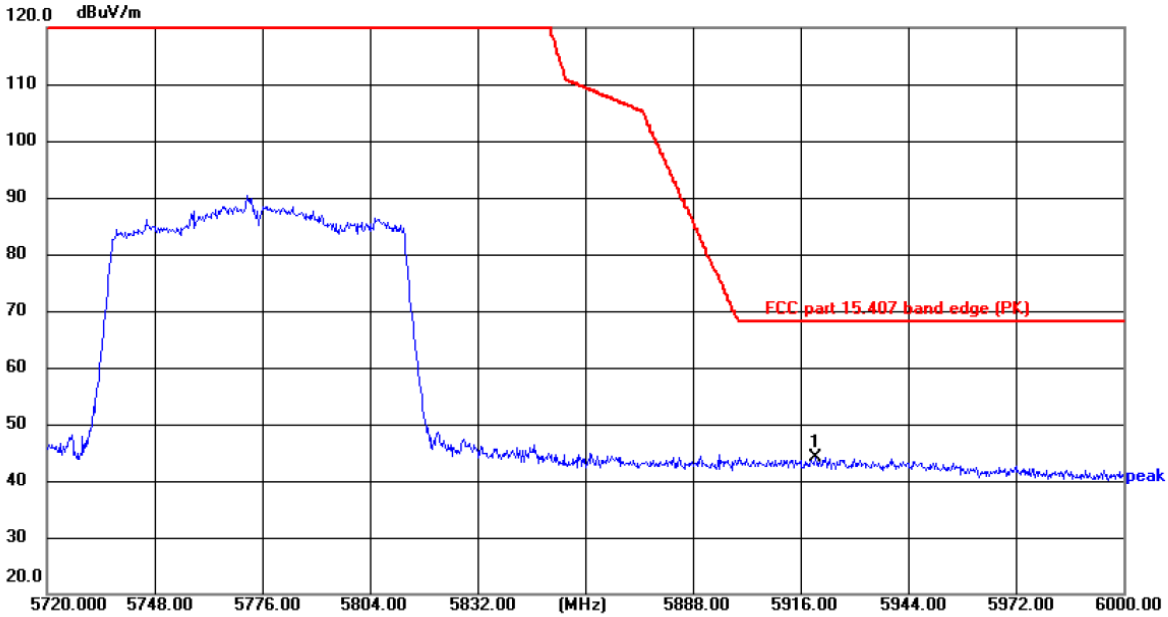
AC80-5775



Site: #3 3m Anechoic Chamber Polarization: ***Horizontal*** Temperature: 21.3(℃) Humidity: 50 %

Limit: FCC part 15.407 band edge (PK) Power:AC 120 V/60 Hz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5930.747	54.02	-7.95	46.07	68.20	-22.13	peak	P	



Site: #3 3m Anechoic Chamber Polarization: ***Vertical*** Temperature: 21.3(℃) Humidity: 50 %

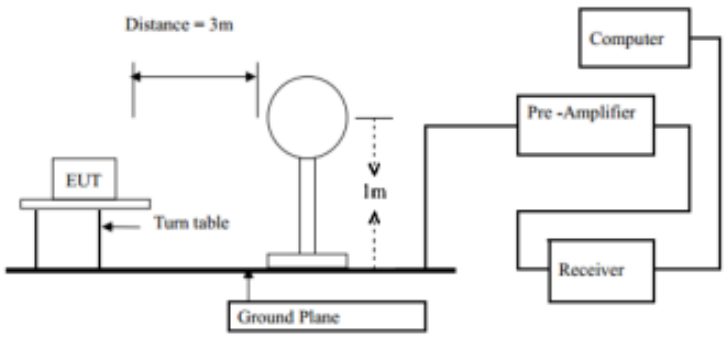
Limit: FCC part 15.407 band edge (PK) Power:AC 120 V/60 Hz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5919.920	52.15	-7.94	44.21	68.20	-23.99	peak	P	

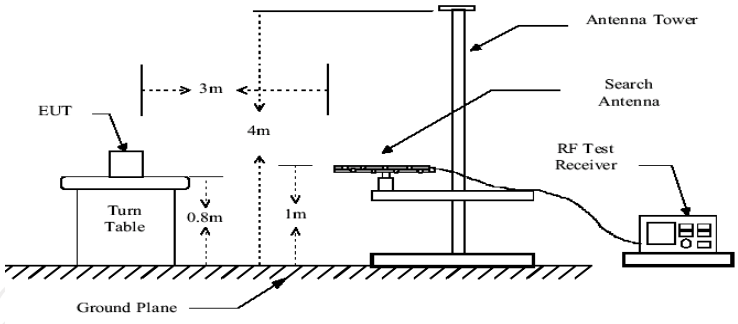
Note: *All modulation (802.11a, 802.11n, 802.11ac) have been tested, only the worst case in 802.11ac be reported.*

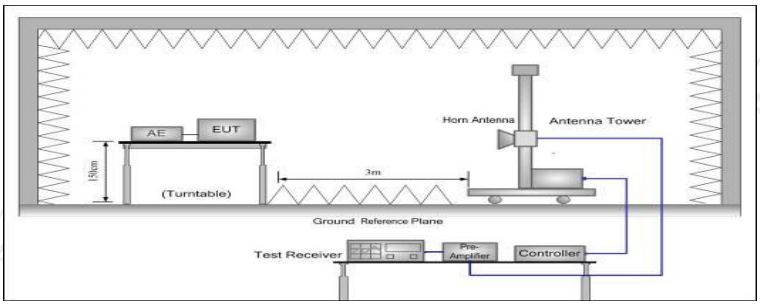
5.8. Unwanted Emissions

5.8.1. Test Specification

<table>
<tr><td>Test Requirement:</td><td>FCC CFR47 Part 15 Section 15.407 & 15.209 & 15.205</td></tr>
<tr><td>Test Method:</td><td>KDB 789033 D02 v02r01</td></tr>
<tr><td>Frequency Range:</td><td>9kHz to 40GHz</td></tr>
<tr><td>Measurement Distance:</td><td>3 m</td></tr>
<tr><td>Antenna Polarization:</td><td>Horizontal & Vertical</td></tr>
<tr><td>Operation mode:</td><td>Transmitting mode with modulation</td></tr>
<tr><td>Receiver Setup:</td><td>
<table>
<tr><td>Frequency</td><td>Detector</td><td>RBW</td><td>VBW</td><td>Remark</td></tr>
<tr><td>9kHz- 150kHz</td><td>Quasi-peak</td><td>200Hz</td><td>1kHz</td><td>Quasi-peak Value</td></tr>
<tr><td>150kHz-30MHz</td><td>Quasi-peak</td><td>9kHz</td><td>30kHz</td><td>Quasi-peak Value</td></tr>
<tr><td>30MHz-1GHz</td><td>Quasi-peak</td><td>120KHz</td><td>300KHz</td><td>Quasi-peak Value</td></tr>
<tr><td rowspan="2">Above 1GHz</td><td>Peak</td><td>1MHz</td><td>3MHz</td><td>Peak Value</td></tr>
<tr><td>Peak</td><td>1MHz</td><td>10Hz</td><td>Average Value</td></tr>
</table>
</td></tr>
<tr><td>Limit:</td><td>Unwanted spurious emissions fallen in restricted bands per FCC Part15.205 shall comply with the general field strength limits set forth in § 15.209 as below table,
In restricted bands:
<table>
<tr><td>Frequency</td><td>Detector</td><td>Limit@3m</td></tr>
<tr><td rowspan="2">Above 1G</td><td>Peak</td><td>74dBμV/m</td></tr>
<tr><td>AVG</td><td>54dBμV/m</td></tr>
</table>
<table>
<tr><td>Frequency</td><td>Field Strength (microvolts/meter)</td><td>Measurement Distance (meters)</td></tr>
<tr><td>0.009-0.490</td><td>2400/F(KHz)</td><td>300</td></tr>
<tr><td>0.490-1.705</td><td>24000/F(KHz)</td><td>3</td></tr>
<tr><td>1.705-30</td><td>30</td><td>30</td></tr>
<tr><td>30-88</td><td>100</td><td>3</td></tr>
<tr><td>88-216</td><td>150</td><td>3</td></tr>
<tr><td>216-960</td><td>200</td><td>3</td></tr>
<tr><td>Above 960</td><td>500</td><td>3</td></tr>
</table>
In un-restricted bands: 68.2dBuV/m</td></tr>
<tr><td>Test setup:</td><td>For radiated emissions below 30MHz
 

30MHz to 1GHz</td></tr>
</table>

<table>
<tr><td></td><td> 

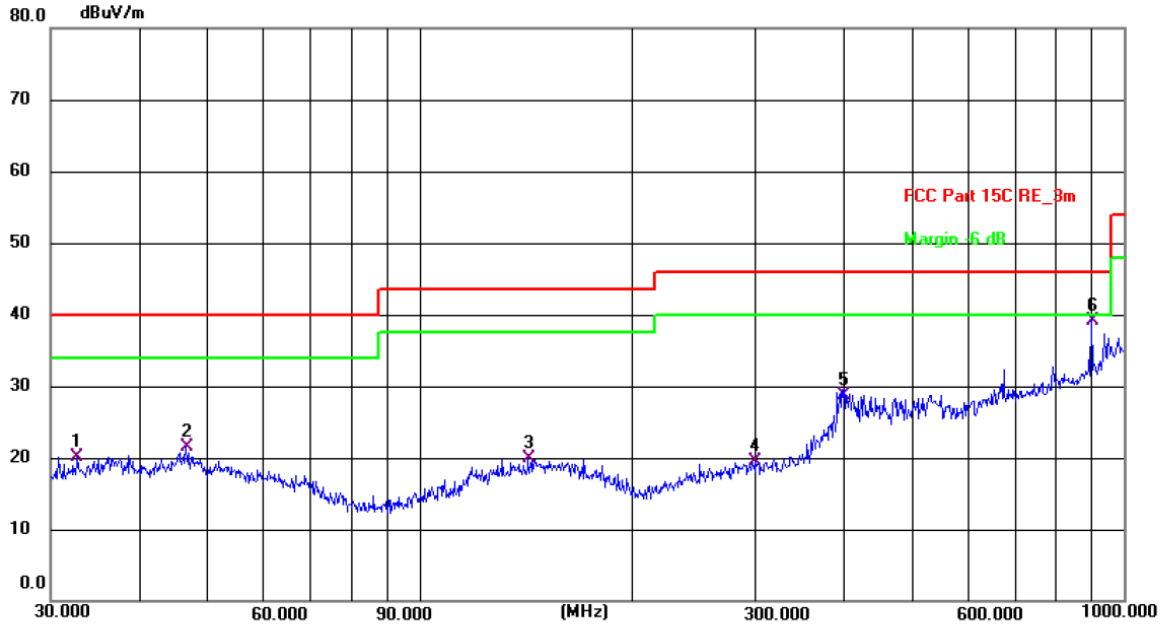
Above 1GHz

</td></tr>
<tr><td>Test Procedure:</td><td>1. The EUT was placed on the top of a rotating table 0.8 meters above the groundat a 3 meter camber. The table was rotated 360 degrees todetermine the position of the highest radiation.
2. The EUT was set 3 meters away from the interference-receiving antenna, whichwas mounted on the top of a variable-height antenna tower.
3. 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.
4. For each suspected emission, the EUT was arranged to its worst case and thenthe antenna was tuned to heights from 1 meter to 4 meters and the rotatablewas turned from 0 degrees to 360 degrees to find the maximum reading.
5. The test-receiver system was set to Peak Detect Function and SpecifiedBandwidth with Maximum Hold Mode.
6. If the emission level of the EUT in peak mode was 10dB lower than the limitspecified, then testing could be stopped and the peak values of the EUT wouldbe reported. Otherwise the emissions that did not have 10dB margin would bere-tested one by one using peak, quasi-peak or average method as specified andthen reported in a data sheet.</td></tr>
<tr><td>Test results:</td><td>PASS</td></tr>
</table>

5.8.2. Test Data

Please refer to following diagram for individual

Below 1GHz

Horizontal:

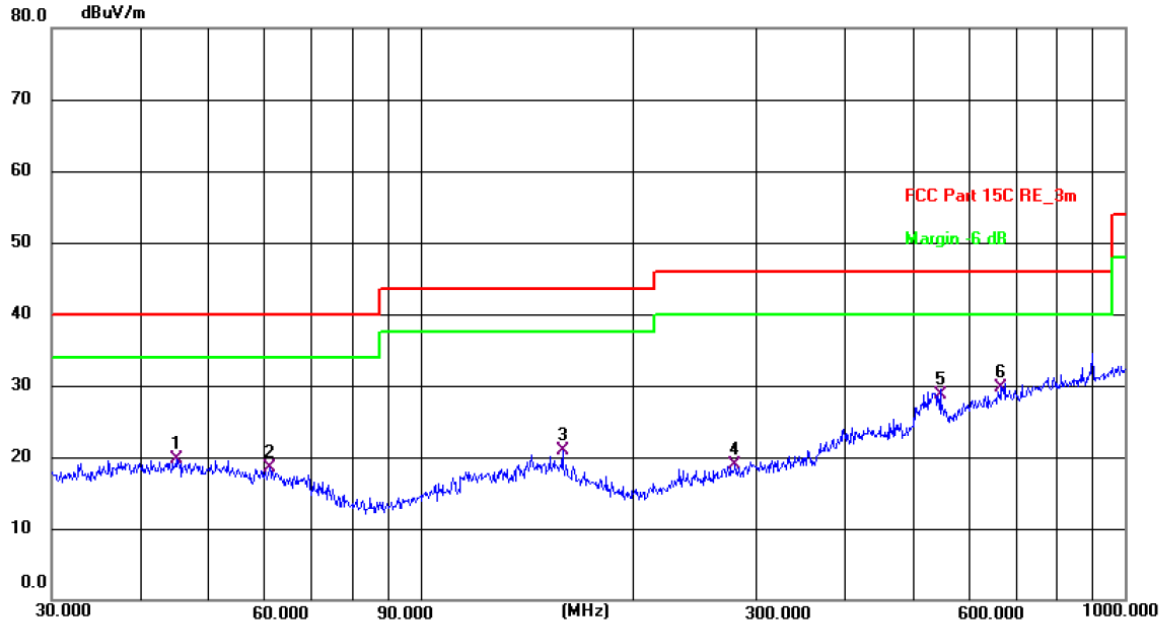


Site: #1 3m Anechoic Chamber Polarization: ***Horizontal*** Temperature: 25.5(C) Humidity: 53 %

Limit: FCC Part 15C RE_3m Power: DC 3.7 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	32.7486	7.33	12.85	20.18	40.00	-19.82	QP	P	
2	46.6663	7.89	13.55	21.44	40.00	-18.56	QP	P	
3	142.8243	7.08	12.75	19.83	43.50	-23.67	QP	P	
4	300.3672	5.99	13.52	19.51	46.00	-26.49	QP	P	
5	400.4318	12.63	16.06	28.69	46.00	-17.31	QP	P	
6 *	900.1474	14.23	24.92	39.15	46.00	-6.85	QP	P	

Vertical:



Site: #1 3m Anechoic Chamber Polarization: ***Vertical*** Temperature: 25.5(C) Humidity: 53 %

Limit: FCC Part 15C RE_3m Power: DC 3.7 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	45.0583	6.16	13.59	19.75	40.00	-20.25	QP	P	
2	61.1315	6.45	12.04	18.49	40.00	-21.51	QP	P	
3	159.2249	7.46	13.35	20.81	43.50	-22.69	QP	P	
4	280.0237	5.81	13.08	18.89	46.00	-27.11	QP	P	
5	547.0976	9.08	19.59	28.67	46.00	-17.33	QP	P	
6 *	668.1422	8.16	21.49	29.65	46.00	-16.35	QP	P	

Note: *1.The low frequency, which started from 9KHz~30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported*

2. Measurements were conducted in all three channels (high, middle, low) and all modulation (802.11a, 802.11n(HT20), 802.11n(HT40), 802.11ac(VHT20), 802.11ac(VHT40), 802.11ac(VHT80) and the worst case Mode (Highest channel and 802.11a) was submitted only.

3.Measurement (dBμV) = Reading level + Correction Factor , correction Factor= Antenna Factor + Cable loss – Pre-amplifier.

Modulation Type: Band 1									
11a CH36: 5180MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
10360	H	38.49	---	8.02	46.51	---	68.2	---	-21.69
15540	H	38.06	---	9.87	47.93	---	74	54	-6.07
---	H	---	---	---	---	---	---	---	---
10360	V	38.25	---	8.02	46.27	---	68.2	---	-21.93
15540	V	38.91	---	9.87	48.78	---	74	54	-5.22
---	V	---	---	---	---	----	---	---	---
11a CH40: 5200MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
10400	H	39.6	---	7.97	47.57	---	68.2	---	-20.63
15600	H	38.15	---	9.83	47.98	---	74	54	-6.02
---	H	---	---	---	---	---	---	---	---
10400	V	40.32	---	7.97	48.29	---	68.2	---	-19.91
15600	V	38.74	---	9.83	48.57	---	74	54	-5.43
---	V	---	---	---	---	----	---	---	---
11a CH48: 5240MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
10480	H	38.65	---	7.97	46.62	---	68.2	---	-21.58
15720	H	37.81	---	9.83	47.64	---	74	54	-6.36
---	H	---	---	---	---	---	---	---	---
10480	V	38.17	---	7.97	46.14	---	68.2	---	-22.06
15720	V	36.25	---	9.83	46.08	---	74	54	-7.92
---	V	---	---	---	---	----	---	---	---
11n(HT20) CH36: 5180MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
10360	H	41.59	---	8.02	49.61	---	68.2	---	-18.59
15540	H	37.26	---	9.87	47.13	---	74	54	-6.87
---	H	---	---	---	---	---	---	---	---
10360	V	42.07	---	8.02	50.09	---	68.2	---	-18.11
15540	V	37.68	---	9.87	47.55	---	74	54	-6.45
---	V	---	---	---	---	----	---	---	---

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11n(HT20) CH40: 5200MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
10400	H	40.16	---	7.97	48.13	---	68.2	---	-20.07
15600	H	38.95	---	9.83	48.78	---	74	54	-5.22
---	H	---	---	---	---	---	---	---	---
10400	V	40.37	---	7.97	48.34	---	68.2	---	-19.86
15600	V	37.52	---	9.83	47.35	---	74	54	-6.65
---	V	---	---	---	---	----	---	---	---

11n(HT20) CH48: 5240MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
10480	H	41.97	---	7.97	49.94	---	68.2	---	-18.26
15720	H	39.04	---	9.83	48.87	---	74	54	-5.13
---	H	---	---	---	---	---	---	---	---
10480	V	40.72	---	7.97	48.69	---	68.2	---	-19.51
15720	V	39.16	---	9.83	48.99	---	74	54	-5.01
---	V	---	---	---	---	----	---	---	---

11n(HT40) CH38: 5190MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
10380	H	39.48	---	7.75	47.23	---	68.2	---	-20.97
15570	H	37.26	---	9.87	47.13	---	74	54	-6.87
---	H	---	---	---	---	---	---	---	---
10380	V	40.52	---	7.75	48.27	---	68.2	---	-19.93
15570	V	37.84	---	9.87	47.71	---	74	54	-6.29
---	V	---	---	---	---	----	---	---	---

11n(HT40) CH46: 5230MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
10460	H	41.63	---	7.97	49.6	---	68.2	---	-18.6
15690	H	38.08	---	9.83	47.91	---	74	54	-6.09
---	H	---	---	---	---	---	---	---	---
10460	V	41.82	---	7.97	49.79	---	68.2	---	-18.41
15690	V	38.47	---	9.83	48.3	---	74	54	-5.7
---	V	---	---	---	---	----	---	---	---

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11ac(VHT20) CH36: 5180MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
10360	H	40.48	---	8.02	48.5	---	68.2	---	-19.7
15540	H	37.11	---	9.87	46.98	---	74	54	-7.02
---	H	---	---	---	---	---	---	---	---
10360	V	38.24	---	8.02	46.26	---	68.2	---	-21.94
15540	V	39.62	---	9.87	49.49	---	74	54	-4.51
---	V	---	---	---	---	----	---	---	---
11ac(VHT20) CH40: 5200MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
10400	H	39.04	---	7.97	47.01	---	68.2	---	-21.19
15600	H	38.96	---	9.83	48.79	---	74	54	-5.21
---	H	---	---	---	---	---	---	---	---
10400	V	39.74	---	7.97	47.71	---	68.2	---	-20.49
15600	V	38.58	---	9.83	48.41	---	74	54	-5.59
---	V	---	---	---	---	----	---	---	---
11ac(VHT20) CH48:5240									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
10480	H	37.69	---	7.97	45.66	---	68.2	---	-22.54
15720	H	37.05	---	9.83	46.88	---	74	54	-7.12
---	H	---	---	---	---	---	---	---	---
10480	V	38.57	---	7.97	46.54	---	68.2	---	-21.66
15720	V	38.7	---	9.83	48.53	---	74	54	-5.47
---	V	---	---	---	---	----	---	---	---
11ac(VHT40) CH38:5190									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
10380	H	40.67	---	7.75	48.42	---	68.2	---	-19.78
15570	H	39.17	---	9.87	49.04	---	74	54	-4.96
---	H	---	---	---	---	---	---	---	---
10380	V	38.49	---	7.75	46.24	---	68.2	---	-21.96
15570	V	38.08	---	9.87	47.95	---	74	54	-6.05
---	V	---	---	---	---	----	---	---	---

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11ac(VHT40) CH46:5230									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
					Peak (dBµV/m)	AV (dBµV/m)			
10460	H	38.13	---	7.97	46.1	---	68.2	---	-22.1
15690	H	38.27	---	9.83	48.1	---	74	54	-5.9
---	H	---	---	---	---	---	---	---	---
10460	V	39.46	---	7.97	47.43	---	68.2	---	-20.77
15690	V	37.28	---	9.83	47.11	---	74	54	-6.89
---	V	---	---	---	---	----	---	---	---
11ac(VHT80) CH42:5210									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
					Peak (dBµV/m)	AV (dBµV/m)			
10420	H	41.29	---	7.96	49.25	---	68.2	---	-18.95
15630	H	39.87	---	9.84	49.71	---	74	54	-4.29
---	H	---	---	---	---	---	---	---	---
10420	V	41.65	---	7.96	49.61	---	68.2	---	-18.59
15630	V	39.13	---	9.84	48.97	---	74	54	-5.03
---	V	---	---	---	---	----	---	---	---

Note:

1. *Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss – Pre-amplifier*
2. *Margin (dB) = Emission Level (Peak) (dBµV/m)-Average limit (dBµV/m)*
3. *The emission levels of other frequencies are very lower than the limit and not show in test report.*
4. *Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 40GHz.*
5. *Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.*

Modulation Type: Band 2A									
11a CH52: 5260MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
10520	H	38.17	---	7.97	46.14	---	68.2	---	-22.06
15780	H	36.52	---	9.83	46.35	---	74	54	-7.65
---	H	---	---	---	---	---	---	---	---
10520	V	41.37	---	7.97	49.34	---	68.2	---	-18.86
15780	V	38.91	---	9.83	48.74	---	74	54	-5.26
---	V	---	---	---	---	----	---	---	---
11a CH60: 5300MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
10600	H	38.66	---	7.98	46.64	---	74	54	-7.36
15900	H	38.48	---	9.85	48.33	---	74	54	-5.67
---	H	---	---	---	---	---	---	---	---
10600	V	39.08	---	7.98	47.06	---	74	54	-6.94
15900	V	37.22	---	9.85	47.07	---	74	54	-6.93
---	V	---	---	---	---	----	---	---	---
11a CH64: 5320MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
10640	H	40.57	---	7.98	48.55	---	74	54	-5.45
15960	H	37.8	---	9.85	47.65	---	74	54	-6.35
---	H	---	---	---	---	---	---	---	---
10640	V	39.62	---	7.98	47.6	---	74	54	-6.4
15960	V	35.1	---	9.85	44.95	---	74	54	-9.05
---	V	---	---	---	---	----	---	---	---
11n(HT20) C52: 5260MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
10520	H	41.82	---	7.97	49.79	---	68.2	---	-18.41
15780	H	38.37	---	9.83	48.2	---	74	54	-5.8
---	H	---	---	---	---	---	---	---	---
10520	V	38.9	---	7.97	46.87	---	68.2	---	-21.33
15780	V	35.26	---	9.83	45.09	---	74	54	-8.91
---	V	---	---	---	---	----	---	---	---

11n(HT20) CH60: 5300MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
10600	H	38.05	---	7.98	46.03	---	74	54	-7.97
15900	H	37.19	---	9.85	47.04	---	74	54	-6.96
---	H	---	---	---	---	---	---	---	---
10600	V	40.47	---	7.98	48.45	---	74	54	-5.55
15900	V	39.85	---	9.85	49.7	---	74	54	-4.3
---	V	---	---	---	---	----	---	---	---

11n(HT20) CH64: 5320MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
10640	H	37.61	---	7.98	45.59	---	74	54	-8.41
15960	H	35.04	---	9.85	44.89	---	74	54	-9.11
---	H	---	---	---	---	---	---	---	---
10640	V	39.27	---	7.98	47.25	---	74	54	-6.75
15960	V	39.88	---	9.85	49.73	---	74	54	-4.27
---	V	---	---	---	---	----	---	---	---

11n(HT40) CH54: 5270MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
10540	H	41.73	---	7.97	49.7	---	68.2	---	-18.5
15810	H	37.08	---	9.83	46.91	---	74	54	-7.09
---	H	---	---	---	---	---	---	---	---
10540	V	37.56	---	7.97	45.53	---	68.2	---	-22.67
15810	V	36.92	---	9.83	46.75	---	74	54	-7.25
---	V	---	---	---	---	----	---	---	---

11n(HT40) CH62: 5310MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
10620	H	40.72	---	7.98	48.7	---	74	54	-5.3
15930	H	38.13	---	9.85	47.98	---	74	54	-6.02
---	H	---	---	---	---	---	---	---	---
10620	V	38.64	---	7.98	46.62	---	74	54	-7.38
15930	V	36.97	---	9.85	46.82	---	74	54	-7.18
---	V	---	---	---	---	----	---	---	---

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11ac(VHT20) C52: 5260MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
					Peak (dBµV/m)	AV (dBµV/m)			
10520	H	40.89	---	7.97	48.86	---	68.2	---	-19.34
15780	H	39.25	---	9.83	49.08	---	74	54	-4.92
---	H	---	---	---	---	---	---	---	---
10520	V	40.96	---	7.97	48.93	---	68.2	---	-19.27
15780	V	37.14	---	9.83	46.97	---	74	54	-7.03
---	V	---	---	---	---	----	---	---	---
11ac(VHT20) CH60: 5300MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
					Peak (dBµV/m)	AV (dBµV/m)			
10600	H	38.25	---	7.98	46.23	---	74	54	-7.77
15900	H	37.9	---	9.85	47.75	---	74	54	-6.25
---	H	---	---	---	---	---	---	---	---
10600	V	37.68	---	7.98	45.66	---	74	54	-8.34
15900	V	36.11	---	9.85	45.96	---	74	54	-8.04
---	V	---	---	---	---	----	---	---	---
11ac(VHT20) CH64: 5320MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
					Peak (dBµV/m)	AV (dBµV/m)			
10640	H	40.28	---	7.98	48.26	---	74	54	-5.74
15960	H	39.76	---	9.85	49.61	---	74	54	-4.39
---	H	---	---	---	---	---	---	---	---
10640	V	40.65	---	7.98	48.63	---	74	54	-5.37
15960	V	35.32	---	9.85	45.17	---	74	54	-8.83
---	V	---	---	---	---	----	---	---	---
11ac(VHT40) CH54: 5270MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
					Peak (dBµV/m)	AV (dBµV/m)			
10540	H	40.25	---	7.97	48.22	---	68.2	---	-19.98
15810	H	37.94	---	9.83	47.77	---	74	54	-6.23
---	H	---	---	---	---	---	---	---	---
10540	V	39.61	---	7.97	47.58	---	68.2	---	-20.62
15810	V	37.87	---	9.83	47.7	---	74	54	-6.3
---	V	---	---	---	---	----	---	---	---

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11ac(VHT40) CH62: 5310MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
					Peak (dBµV/m)	AV (dBµV/m)			
10620	H	38.53	---	7.98	46.51	---	74	54	-7.49
15930	H	36.27	---	9.85	46.12	---	74	54	-7.88
---	H	---	---	---	---	---	---	---	---
10620	V	39.8	---	7.98	47.78	---	74	54	-6.22
15930	V	37.27	---	9.85	47.12	---	74	54	-6.88
---	V	---	---	---	---	----	---	---	---
11ac(VHT80) C58:5290MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
					Peak (dBµV/m)	AV (dBµV/m)			
10580	H	41.05	---	7.98	49.03	---	74	54	-4.97
15870	H	39.81	---	9.85	49.66	---	74	54	-4.34
---	H	---	---	---	---	---	---	---	---
10580	V	40.34	---	7.98	48.32	---	74	54	-5.68
15870	V	37.75	---	9.85	47.6	---	74	54	-6.4
---	V	---	---	---	---	----	---	---	---

Note:

1. *Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss – Pre-amplifier*
2. *Margin (dB) = Emission Level (Peak) (dBµV/m)-Average limit (dBµV/m)*
3. *The emission levels of other frequencies are very lower than the limit and not show in test report.*
4. *Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 40GHz.*
5. *Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.*

Modulation Type: Band 2C									
11a CH100: 5500MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11000	H	39.68	---	8.03	47.71	---	74	54	-6.29
16500	H	39.32	---	9.76	49.08	---	68.2	---	-19.12
---	H	---	---	---	---	---	---	---	---
11000	V	40.15	---	8.03	48.18	---	74	54	-5.82
16500	V	40.69	---	9.76	50.45	---	68.2	---	-17.75
---	V	---	---	---	---	----	---	---	---
11a CH120: 5600MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11200	H	40.13	---	8.04	48.17	---	74	54	-5.83
16800	H	40.84	---	9.74	50.58	---	68.2	---	-17.62
---	H	---	---	---	---	---	---	---	---
11200	V	38.63	---	8.04	46.67	---	74	54	-7.33
16800	V	39.27	---	9.74	49.01	---	68.2	---	-19.19
---	V	---	---	---	---	----	---	---	---
11a CH140: 5700MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11400	H	38.06	---	8.05	46.11	---	74	54	-7.89
17100	H	40.13	---	9.72	49.85	---	68.2	---	-18.35
---	H	---	---	---	---	---	---	---	---
11400	V	38.48	---	8.05	46.53	---	74	54	-7.47
17100	V	40.25	---	9.72	49.97	---	68.2	---	-18.23
---	V	---	---	---	---	----	---	---	---
11n(HT20) CH100: 5500MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11000	H	40.17	---	8.03	48.2	---	74	54	-5.8
16500	H	39.61	---	9.76	49.37	---	68.2	---	-18.83
---	H	---	---	---	---	---	---	---	---
11000	V	38.72	---	8.03	46.75	---	74	54	-7.25
16500	V	41.39	---	9.76	51.15	---	68.2	---	-17.05
---	V	---	---	---	---	----	---	---	---

11n(HT20) CH120: 5600MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11200	H	39.01	---	8.04	47.05	---	74	54	-6.95
16800	H	40.38	---	9.74	50.12	---	68.2	---	-18.08
---	H	---	---	---	---	---	---	---	---
11200	V	38.67	---	8.04	46.71	---	74	54	-7.29
16800	V	39.42	---	9.74	49.16	---	68.2	---	-19.04
---	V	---	---	---	---	----	---	---	---

11n(HT20) CH140: 5700MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11400	H	39.18	---	8.05	47.23	---	74	54	-6.77
17100	H	40.59	---	9.72	50.31	---	68.2	---	-17.89
---	H	---	---	---	---	---	---	---	---
11400	V	38.64	---	8.05	46.69	---	74	54	-7.31
17100	V	39.28	---	9.72	49	---	68.2	---	-19.2
---	V	---	---	---	---	----	---	---	---

11n(HT40) CH102: 5510MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11020	H	39.73	---	8.03	47.76	---	74	54	-6.24
16530	H	39.06	---	9.76	48.82	---	68.2	---	-19.38
---	H	---	---	---	---	---	---	---	---
11020	V	39.48	---	8.03	47.51	---	74	54	-6.49
16530	V	37.12	---	9.76	46.88	---	68.2	---	-21.32
---	V	---	---	---	---	----	---	---	---

11n(HT40) CH118: 5590MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11180	H	39.76	---	8.04	47.8	---	74	54	-6.2
16770	H	39.24	---	9.74	48.98	---	68.2	---	-19.22
---	H	---	---	---	---	---	---	---	---
11180	V	37.15	---	8.04	45.19	---	74	54	-8.81
16770	V	41.72	---	9.74	51.46	---	68.2	---	-16.74
---	V	---	---	---	---	----	---	---	---

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11n(HT40) CH134: 5670MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11340	H	40.79	---	8.05	48.84	---	74	54	-5.16
17010	H	41.02	---	9.72	50.74	---	68.2	---	-17.46
---	H	---	---	---	---	---	---	---	---
11340	V	39.35	---	8.05	47.4	---	74	54	-6.6
17010	V	38.04	---	9.72	47.76	---	68.2	---	-20.44
---	V	---	---	---	---	----	---	---	---

11ac(VHT20) CH100: 5500MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11000	H	37.98	---	8.03	46.01	---	74	54	-7.99
16500	H	39.11	---	9.76	48.87	---	68.2	---	-19.33
---	H	---	---	---	---	---	---	---	---
11000	V	39.47	---	8.03	47.5	---	74	54	-6.5
16500	V	39.8	---	9.76	49.56	---	68.2	---	-18.64
---	V	---	---	---	---	----	---	---	---

11ac(VHT20) CH120: 5600MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11200	H	40.35	---	8.04	48.39	---	74	54	-5.61
16800	H	39.87	---	9.74	49.61	---	68.2	---	-18.59
---	H	---	---	---	---	---	---	---	---
11200	V	39.29	---	8.04	47.33	---	74	54	-6.67
16800	V	39.73	---	9.74	49.47	---	68.2	---	-18.73
---	V	---	---	---	---	----	---	---	---

11ac(VHT20) CH140: 5700MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11400	H	39.62	---	8.05	47.67	---	74	54	-6.33
17100	H	38.01	---	9.72	47.73	---	68.2	---	-20.47
---	H	---	---	---	---	---	---	---	---
11400	V	40.57	---	8.05	48.62	---	74	54	-5.38
17100	V	39.83	---	9.72	49.55	---	68.2	---	-18.65
---	V	---	---	---	---	----	---	---	---

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11ac(VHT40) CH102: 5510MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11020	H	38.55	---	8.03	46.58	---	74	54	-7.42
16530	H	39.16	---	9.76	48.92	---	68.2	---	-19.28
---	H	---	---	---	---	---	---	---	---
11020	V	41.28	---	8.03	49.31	---	74	54	-4.69
16530	V	38.46	---	9.76	48.22	---	68.2	---	-19.98
---	V	---	---	---	---	----	---	---	---

11ac(VHT40) CH118: 5590MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11180	H	38.72	---	8.04	46.76	---	74	54	-7.24
16770	H	36.39	---	9.74	46.13	---	68.2	---	-22.07
---	H	---	---	---	---	---	---	---	---
11180	V	38.18	---	8.04	46.22	---	74	54	-7.78
16770	V	37.5	---	9.74	47.24	---	68.2	---	-20.96
---	V	---	---	---	---	----	---	---	---

11ac(VHT40) CH134: 5670MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11340	H	37.49	---	8.05	45.54	---	74	54	-8.46
17010	H	36.61	---	9.72	46.33	---	68.2	---	-21.87
---	H	---	---	---	---	---	---	---	---
11340	V	37.4	---	8.05	45.45	---	74	54	-8.55
17010	V	39.87	---	9.72	49.59	---	68.2	---	-18.61
---	V	---	---	---	---	----	---	---	---

11ac(VHT80) CH106: 5530MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11060	H	39.34	---	8.03	47.37	---	74	54	-6.63
16590	H	40.18	---	9.75	49.93	---	68.2	---	-18.27
---	H	---	---	---	---	---	---	---	---
11060	V	40.92	---	8.03	48.95	---	74	54	-5.05
16590	V	41.77	---	9.75	51.52	---	68.2	---	-16.68
---	V	---	---	---	---	----	---	---	---

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11ac(VHT80) CH122: 5610MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11220	H	40.62	---	8.05	48.67	---	74	54	-5.33
16830	H	38.37	---	9.72	48.09	---	68.2	---	-20.11
---	H	---	---	---	---	---	---	---	---
11220	V	39.15	---	8.05	47.2	---	74	54	-6.8
16830	V	39.73	---	9.72	49.45	---	68.2	---	-18.75
---	V	---	---	---	---	----	---	---	---

Note:

1. *Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss – Pre-amplifier*
2. *Margin (dB) = Emission Level (Peak) (dBμV/m)-Average limit (dBμV/m)*
3. *The emission levels of other frequencies are very lower than the limit and not show in test report.*
4. *Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 40GHz.*
5. *Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.*

Modulation Type: Band 3									
11a CH149: 5745MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11490	H	37.15	---	8.09	45.24	---	74	54	-8.76
17235	H	37.62	---	9.67	47.29	---	68.2	---	-20.91
---	H	---	---	---	---	---	---	---	---
11490	V	40.84	---	8.09	48.93	---	74	54	-5.07
17235	V	38.27	---	9.67	47.94	---	68.2	---	-20.26
---	V	---	---	---	---	----	---	---	---
11a CH157: 5785MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11570	H	39.16	---	8.10	47.26	---	74	54	-6.74
17355	H	38.93	---	9.65	48.58	---	68.2	---	-19.62
---	H	---	---	---	---	---	---	---	---
11570	V	38.14	---	8.10	46.24	---	74	54	-7.76
17355	V	39.88	---	9.65	49.53	---	68.2	---	-18.67
---	V	---	---	---	---	----	---	---	---
11a CH165: 5825MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11650	H	37.6	---	8.12	45.72	---	74	54	-8.28
17475	H	36.25	---	9.62	45.87	---	68.2	---	-22.33
---	H	---	---	---	---	---	---	---	---
11650	V	38.59	---	8.12	46.71	---	74	54	-7.29
17475	V	38.14	---	9.62	47.76	---	68.2	---	-20.44
---	V	---	---	---	---	----	---	---	---
11n(HT20) CH149: 5745MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11490	H	38.13	---	8.09	46.22	---	74	54	-7.78
17235	H	38.58	---	9.67	48.25	---	68.2	---	-19.95
---	H	---	---	---	---	---	---	---	---
11490	V	39.71	---	8.09	47.8	---	74	54	-6.2
17235	V	37.36	---	9.67	47.03	---	68.2	---	-21.17
---	V	---	---	---	---	----	---	---	---

11n(HT20) CH157: 5785MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11570	H	38.25	---	8.10	46.35	---	74	54	-7.65
17355	H	39.07	---	9.65	48.72	---	68.2	---	-19.48
---	H	---	---	---	---	---	---	---	---
11570	V	38.39	---	8.10	46.49	---	74	54	-7.51
17355	V	39.84	---	9.65	49.49	---	68.2	---	-18.71
---	V	---	---	---	---	----	---	---	---
11n(HT20) CH165: 5825MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11650	H	38.46	---	8.12	46.58	---	74	54	-7.42
17475	H	37.97	---	9.62	47.59	---	68.2	---	-20.61
---	H	---	---	---	---	---	---	---	---
11650	V	38.08	---	8.12	46.2	---	74	54	-7.8
17475	V	39.73	---	9.62	49.35	---	68.2	---	-18.85
---	V	---	---	---	---	----	---	---	---
11n(HT40) CH151: 5755MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11510	H	40.34	---	8.09	48.43	---	74	54	-5.57
17265	H	37.5	---	9.67	47.17	---	68.2	---	-21.03
---	H	---	---	---	---	---	---	---	---
11510	V	41.17	---	8.09	49.26	---	74	54	-4.74
17265	V	38.93	---	9.67	48.6	---	68.2	---	-19.6
---	V	---	---	---	---	----	---	---	---
11n(HT40) CH159: 5795MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11590	H	38.56	---	8.10	46.66	---	74	54	-7.34
17385	H	38.72	---	9.65	48.37	---	68.2	---	-19.83
---	H	---	---	---	---	---	---	---	---
11590	V	38.85	---	8.10	46.95	---	74	54	-7.05
17385	V	37.16	---	9.65	46.81	---	68.2	---	-21.39
---	V	---	---	---	---	----	---	---	---

11ac(VHT20) CH149: 5745MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11490	H	40.34	---	8.09	48.43	---	74	54	-5.57
17235	H	37.57	---	9.67	47.24	---	68.2	---	-20.96
---	H	---	---	---	---	---	---	---	---
11490	V	40.98	---	8.09	49.07	---	74	54	-4.93
17235	V	38.21	---	9.67	47.88	---	68.2	---	-20.32
---	V	---	---	---	---	----	---	---	---

11ac(VHT20) CH157: 5785MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11570	H	38.46	---	8.10	46.56	---	74	54	-7.44
17355	H	36.25	---	9.65	45.9	---	68.2	---	-22.3
---	H	---	---	---	---	---	---	---	---
11570	V	37.8	---	8.10	45.9	---	74	54	-8.1
17355	V	38.15	---	9.65	47.8	---	68.2	---	-20.4
---	V	---	---	---	---	----	---	---	---

11ac(VHT20) CH165: 5825MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11650	H	40.34	---	8.12	48.46	---	74	54	-5.54
17475	H	38.52	---	9.62	48.14	---	68.2	---	-20.06
---	H	---	---	---	---	---	---	---	---
11650	V	38.67	---	8.12	46.79	---	74	54	-7.21
17475	V	40.11	---	9.62	49.73	---	68.2	---	-18.47
---	V	---	---	---	---	----	---	---	---

11ac(VHT40) CH151: 5755MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11510	H	39.71	---	8.09	47.8	---	74	54	-6.2
17265	H	37.55	---	9.67	47.22	---	68.2	---	-20.98
---	H	---	---	---	---	---	---	---	---
11510	V	40.82	---	8.09	48.91	---	74	54	-5.09
17265	V	36.09	---	9.67	45.76	---	68.2	---	-22.44
---	V	---	---	---	---	----	---	---	---

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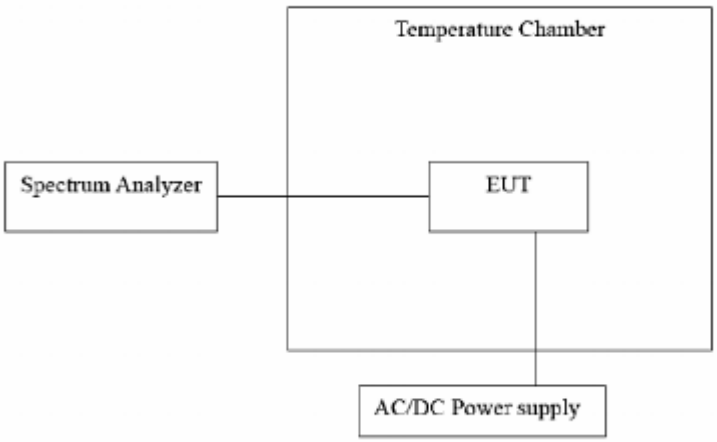
11ac(VHT40) CH159: 5795MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11590	H	40.18	---	8.10	48.28	---	74	54	-5.72
17385	H	37.65	---	9.65	47.3	---	68.2	---	-20.9
---	H	---	---	---	---	---	---	---	---
11590	V	39.82	---	8.10	47.92	---	74	54	-6.08
17385	V	38.04	---	9.65	47.69	---	68.2	---	-20.51
---	V	---	---	---	---	----	---	---	---
11ac(VHT80) CH155: 5775MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
11550	H	40.19	---	8.09	48.28	---	74	54	-5.72
17325	H	38.7	---	9.66	48.36	---	68.2	---	-19.84
---	H	---	---	---	---	---	---	---	---
11550	V	41.56	---	8.09	49.65	---	74	54	-4.35
17325	V	38.23	---	9.66	47.89	---	68.2	---	-20.31
---	V	---	---	---	---	----	---	---	---

Note:

1. *Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss – Pre-amplifier*
2. *Margin (dB) = Emission Level (Peak) (dBμV/m)-Average limit (dBμV/m)*
3. *The emission levels of other frequencies are very lower than the limit and not show in test report.*
4. *Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 40GHz.*
5. *Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.*

5.9. Frequency Stability Measurement

5.9.1. Test Specification

Test Requirement:	FCC Part15 Section 15.407(g) &Part2 J Section 2.1055
Test Method:	ANSI C63.10: 2013
Limit:	The frequency tolerance shall be maintained within the band of operation frequency over a temperature variation of 0 degrees to 45 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C.
Test Setup:	
Test Procedure:	The EUT was placed inside the environmental test chamber and powered by nominal AC/DC voltage. b. Turn the EUT on and couple its output to a spectrum analyzer. c. Turn the EUT off and set the chamber to the highest temperature specified. d. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize. e. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature. f. The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.
Test Result:	PASS
Remark:	Pre-scan was performed at all models(11a,11n,11ac), the worst case (11ac) was found and test data was shown in this report.

Test plots as follows:

Test mode:	802.11ac(HT20)	Frequency(MHz):	5180

Temperature (°C)	Voltage(VDC)	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	3.7V	5180	0	PASS
35		5179.98	-20000	PASS
25		5180	0	PASS
15		5180	0	PASS
5		5180	0	PASS
0		5180	0	PASS
25	3.3V	5180	0	PASS
	3.7V	5180	0	PASS
	4.2V	5179.98	-20000	PASS

Test mode:	802.11ac(HT20)	Frequency(MHz):	5200

Temperature (°C)	Voltage(VDC)	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	3.7V	5199.96	-40000	PASS
35		5200	0	PASS
25		5199.96	-40000	PASS
15		5200	0	PASS
5		5199.98	-20000	PASS
0		5199.98	-20000	PASS
25	3.3V	5199.96	-40000	PASS
	3.7V	5199.96	-40000	PASS
	4.2V	5200	0	PASS

Test mode:	802.11ac(HT20)	Frequency(MHz):	5240

Temperature (°C)	Voltage(VDC)	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	3.7V	5240	0	PASS
35		5239.96	-40000	PASS
25		5239.98	-20000	PASS
15		5240	0	PASS
5		5240	0	PASS
0		5239.98	-20000	PASS
25	3.3V	5239.98	-20000	PASS
	3.7V	5240	0	PASS
	4.2V	5239.98	-20000	PASS

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Test mode:	802.11ac(HT20)	Frequency(MHz):	5745

Temperature (°C)	Voltage(VDC)	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	3.7V	5744.98	-20000	PASS
35		5745	0	PASS
25		5745.02	20000	PASS
15		5744.98	-20000	PASS
5		5744.98	-20000	PASS
0		5745	0	PASS
25	3.3V	5744.96	-40000	PASS
	3.7V	5744.96	-40000	PASS
	4.2V	5744.98	-20000	PASS

Test mode:	802.11ac(HT20)	Frequency(MHz):	5785

Temperature (°C)	Voltage(VDC)	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	3.7V	5785.02	20000	PASS
35		5784.96	-40000	PASS
25		5784.98	-20000	PASS
15		5784.98	-20000	PASS
5		5784.96	-40000	PASS
0		5785	0	PASS
25	3.3V	5785	0	PASS
	3.7V	5784.98	-20000	PASS
	4.2V	5784.98	-20000	PASS

Test mode:	802.11ac(HT20)	Frequency(MHz):	5825

Temperature (°C)	Voltage(VDC)	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	3.7V	5825	0	PASS
35		5824.98	-20000	PASS
25		5825	0	PASS
15		5824.98	-20000	PASS
5		5825	0	PASS
0		5824.94	-60000	PASS
25	3.3V	5825	0	PASS
	3.7V	5824.96	-40000	PASS
	4.2V	5824.96	-40000	PASS

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Test mode:	802.11ac(HT40)	Frequency(MHz):	5190

Temperature (°C)	Voltage(VDC)	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	3.7V	5190.04	40000	PASS
35		5190	0	PASS
25		5190	0	PASS
15		5190	0	PASS
5		5190	0	PASS
0		5190	0	PASS
25	3.3V	5190.04	40000	PASS
	3.7V	5190	0	PASS
	4.2V	5190	0	PASS

Test mode:	802.11ac(HT40)	Frequency(MHz):	5230

Temperature (°C)	Voltage(VDC)	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	3.7V	5229.96	-40000	PASS
35		5230	0	PASS
25		5230	0	PASS
15		5229.96	-40000	PASS
5		5229.96	-40000	PASS
0		5230	0	PASS
25	3.3V	5230	0	PASS
	3.7V	5229.96	-40000	PASS
	4.2V	5230	0	PASS

Test mode:	802.11ac(HT40)	Frequency(MHz):	5755

Temperature (°C)	Voltage(VDC)	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	3.7V	5754.96	-40000	PASS
35		5755	0	PASS
25		5755	0	PASS
15		5755	0	PASS
5		5754.96	-40000	PASS
0		5755	0	PASS
25	3.3V	5754.96	-40000	PASS
	3.7V	5754.96	-40000	PASS
	4.2V	5755	0	PASS

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Test mode:	802.11ac(HT40)	Frequency(MHz):	5795

Temperature (°C)	Voltage(VDC)	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	3.7V	5794.96	-40000	PASS
35		5794.96	-40000	PASS
25		5795	0	PASS
15		5794.96	-40000	PASS
5		5795	0	PASS
0		5794.96	-40000	PASS
25	3.3V	5794.96	-40000	PASS
	3.7V	5794.96	-40000	PASS
	4.2V	5794.96	-40000	PASS

Test mode:	802.11ac(VHT80)	Frequency(MHz):	5210

Temperature (°C)	Voltage(VDC)	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	3.7V	5210	0	PASS
35		5210.24	240000	PASS
25		5210.24	240000	PASS
15		5210.24	240000	PASS
5		5209.92	-80000	PASS
0		5210.24	240000	PASS
25	3.3V	5210.24	240000	PASS
	3.7V	5209.92	-80000	PASS
	4.2V	5210.24	240000	PASS

Test mode:	802.11ac(VHT80)	Frequency(MHz):	5775

Temperature (°C)	Voltage(VDC)	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	3.7V	5774.92	-80000	PASS
35		5774.6	-400000	PASS
25		5775.24	240000	PASS
15		5774.76	-240000	PASS
5		5774.68	-320000	PASS
0		5774.76	-240000	PASS
25	3.3V	5774.92	-80000	PASS
	3.7V	5774.92	-80000	PASS
	4.2V	5774.92	-80000	PASS

Appendix A: Test Result of Conducted Test

Duty Cycle

Condition	Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor (dB)
NVNT	a	5180	85.85	0.66
NVNT	a	5200	85.83	0.66
NVNT	a	5240	85.80	0.67
NVNT	n20	5180	85.07	0.70
NVNT	n20	5200	85.04	0.70
NVNT	n20	5240	85.08	0.70
NVNT	n40	5190	79.36	1.00
NVNT	n40	5230	78.84	1.03
NVNT	ac20	5180	85.42	0.68
NVNT	ac20	5200	85.40	0.69
NVNT	ac20	5240	85.40	0.69
NVNT	ac40	5190	77.82	1.09
NVNT	ac40	5230	77.89	1.09
NVNT	ac80	5210	71.76	1.44
NVNT	a	5260	85.82	0.66
NVNT	a	5300	85.84	0.66
NVNT	a	5320	85.78	0.67
NVNT	n20	5260	85.06	0.70
NVNT	n20	5300	85.01	0.71
NVNT	n20	5320	85.04	0.70
NVNT	n40	5270	78.87	1.03
NVNT	n40	5310	78.82	1.03
NVNT	ac20	5260	85.40	0.69
NVNT	ac20	5300	85.33	0.69
NVNT	ac20	5320	85.35	0.69
NVNT	ac40	5270	77.77	1.09
NVNT	ac40	5310	77.80	1.09
NVNT	ac80	5290	71.80	1.44
NVNT	a	5500	85.84	0.66
NVNT	a	5600	85.86	0.66
NVNT	a	5700	85.84	0.66
NVNT	n20	5500	85.04	0.70
NVNT	n20	5600	85.04	0.70
NVNT	n20	5700	85.09	0.70
NVNT	n40	5510	78.90	1.03
NVNT	n40	5590	78.86	1.03
NVNT	n40	5670	78.85	1.03
NVNT	ac20	5500	85.42	0.68
NVNT	ac20	5600	85.48	0.68
NVNT	ac20	5700	85.38	0.69
NVNT	ac40	5510	77.81	1.09
NVNT	ac40	5590	77.79	1.09
NVNT	ac40	5670	77.77	1.09

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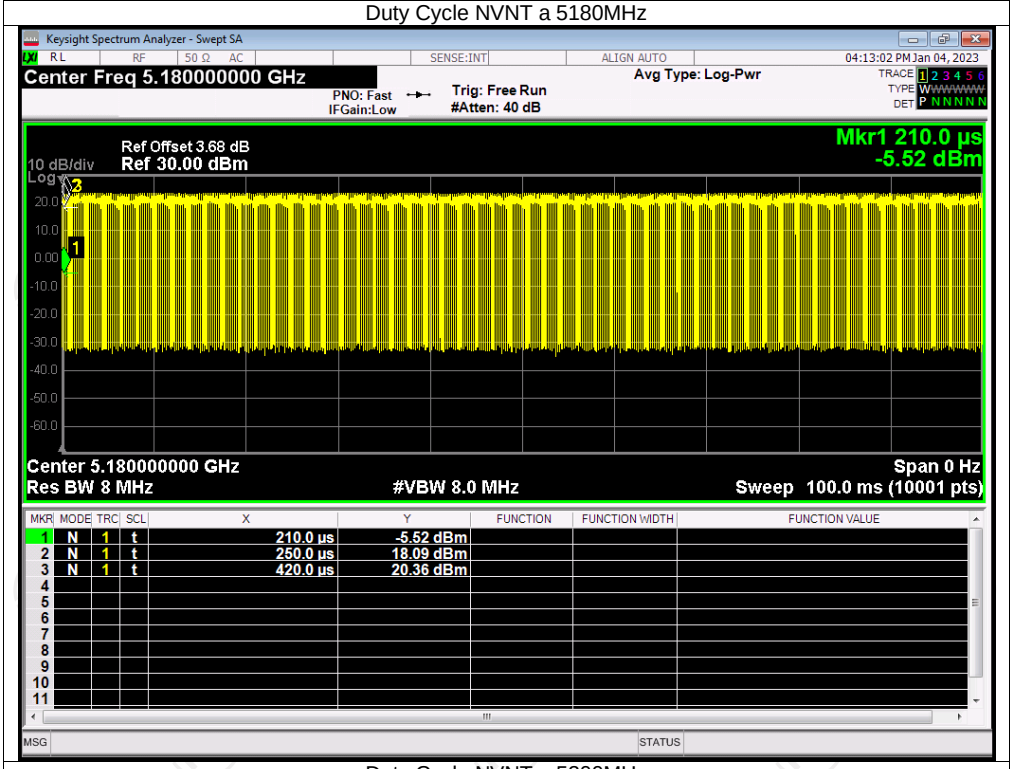
NVNT	ac80	5530	71.80	1.44
NVNT	ac80	5610	71.70	1.44
NVNT	a	5745	85.94	0.66
NVNT	a	5785	85.87	0.66
NVNT	a	5825	85.78	0.67
NVNT	n20	5745	85.03	0.70
NVNT	n20	5785	85.02	0.70
NVNT	n20	5825	85.04	0.70
NVNT	n40	5755	79.00	1.02
NVNT	n40	5795	79.13	1.02
NVNT	ac20	5745	85.38	0.69
NVNT	ac20	5785	85.43	0.68
NVNT	ac20	5825	85.55	0.68
NVNT	ac40	5755	77.94	1.08
NVNT	ac40	5795	77.83	1.09
NVNT	ac80	5775	71.86	1.43

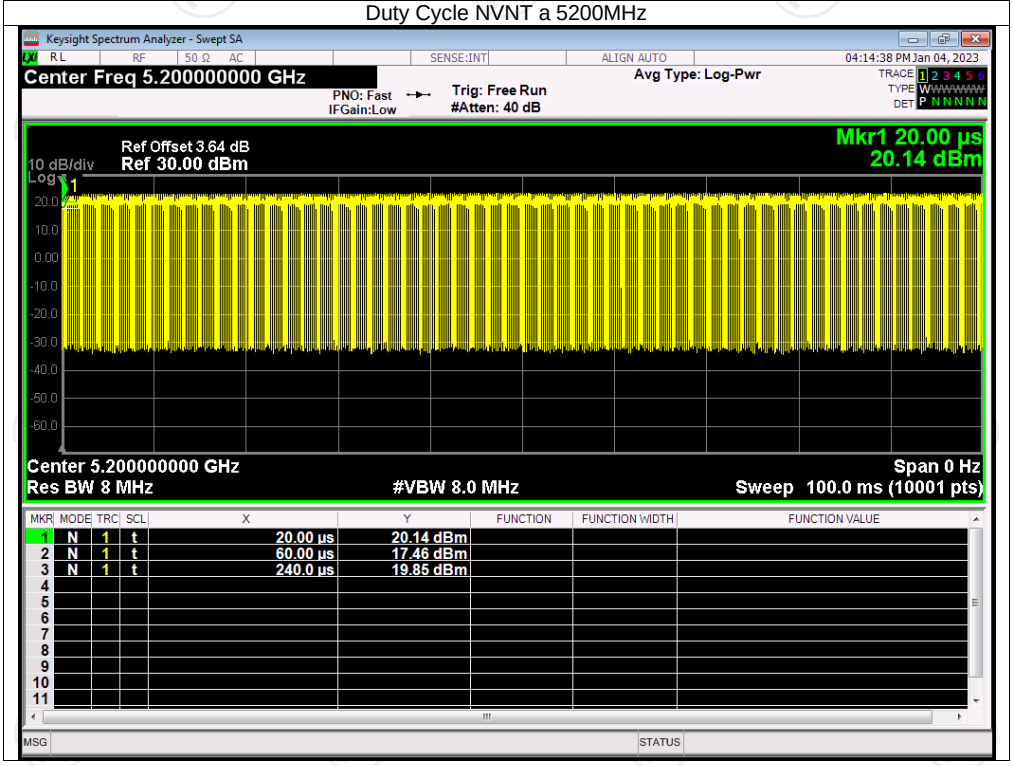
Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com

Test Graphs

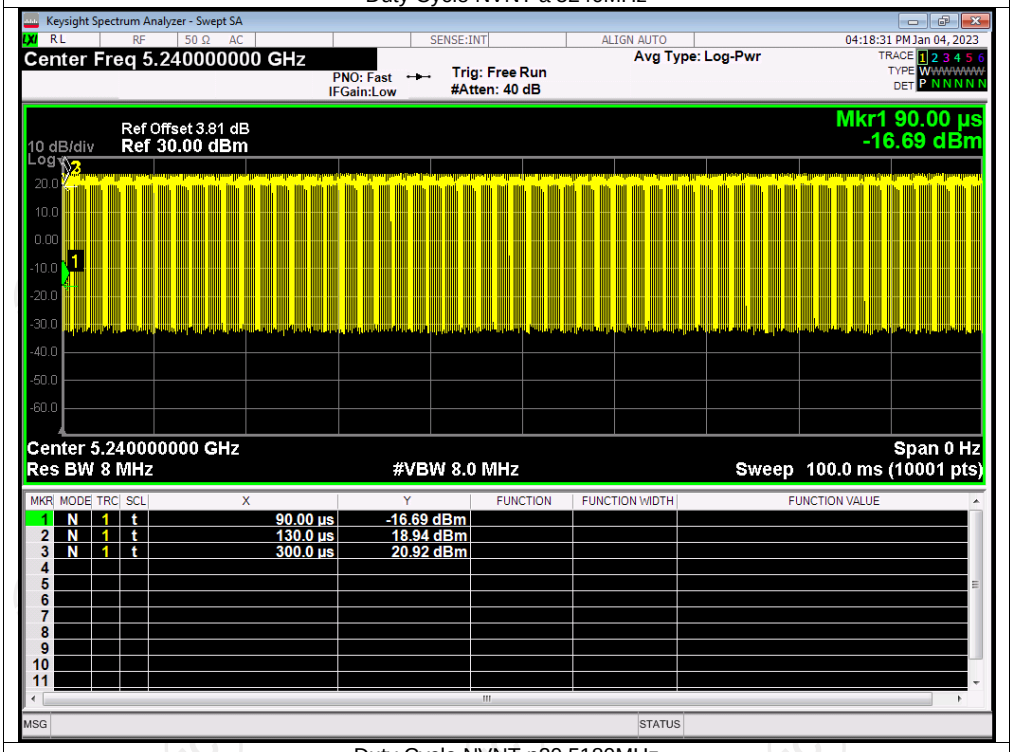
Duty Cycle NVNT a 5180MHz



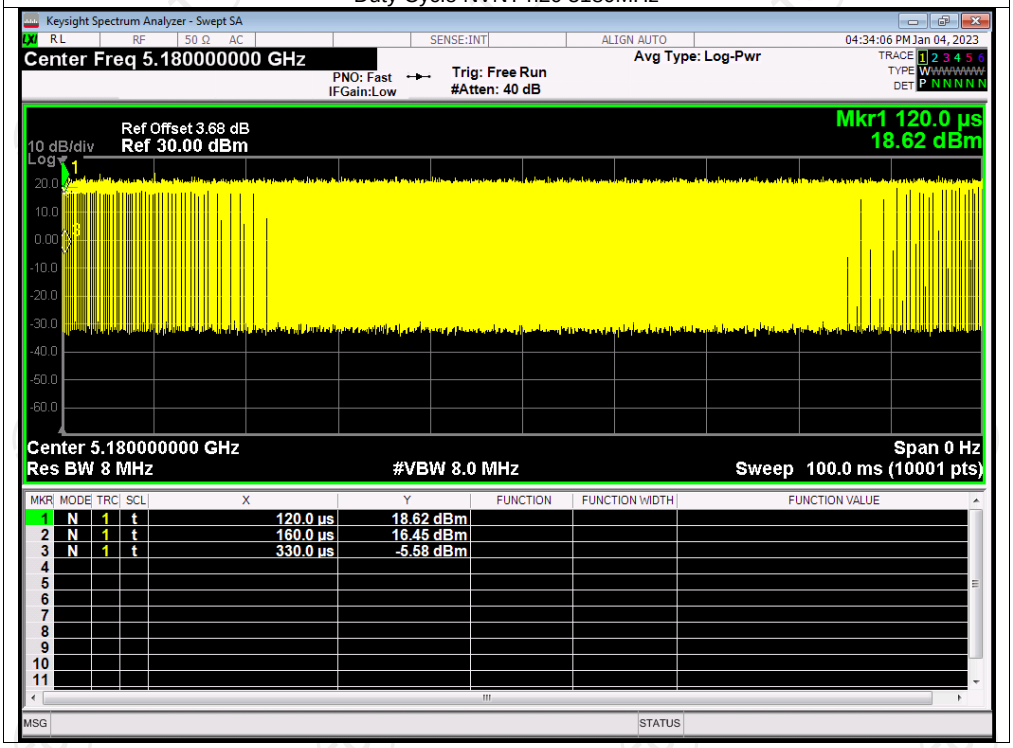
Duty Cycle NVNT a 5200MHz



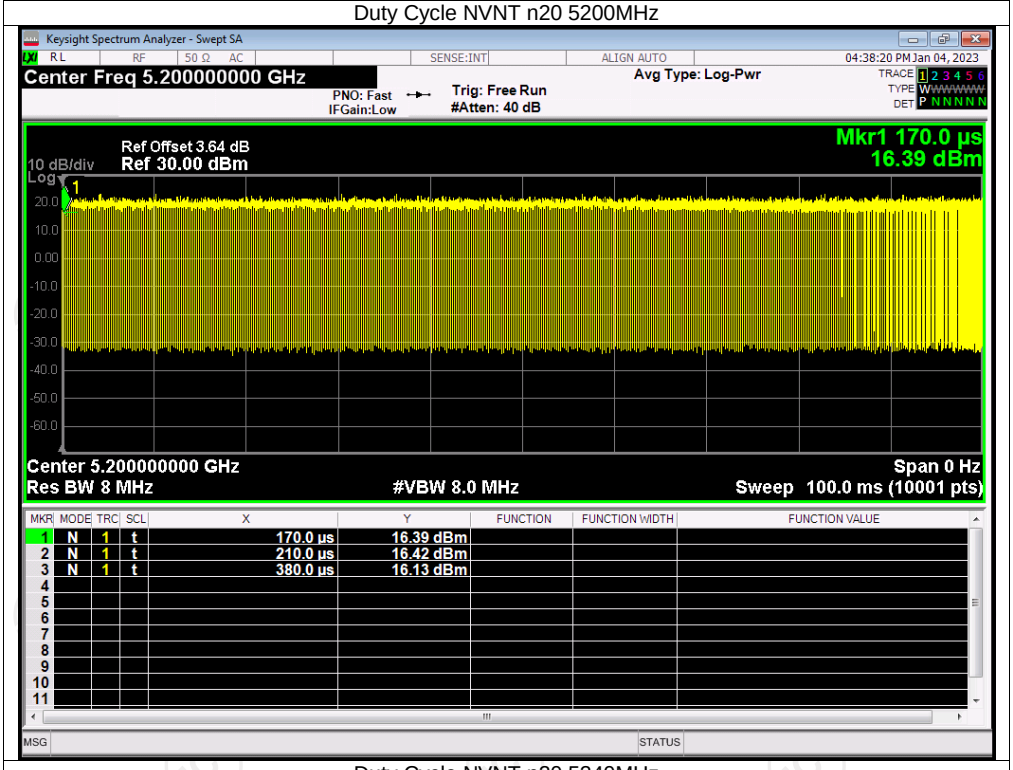
Duty Cycle NVNT a 5240MHz



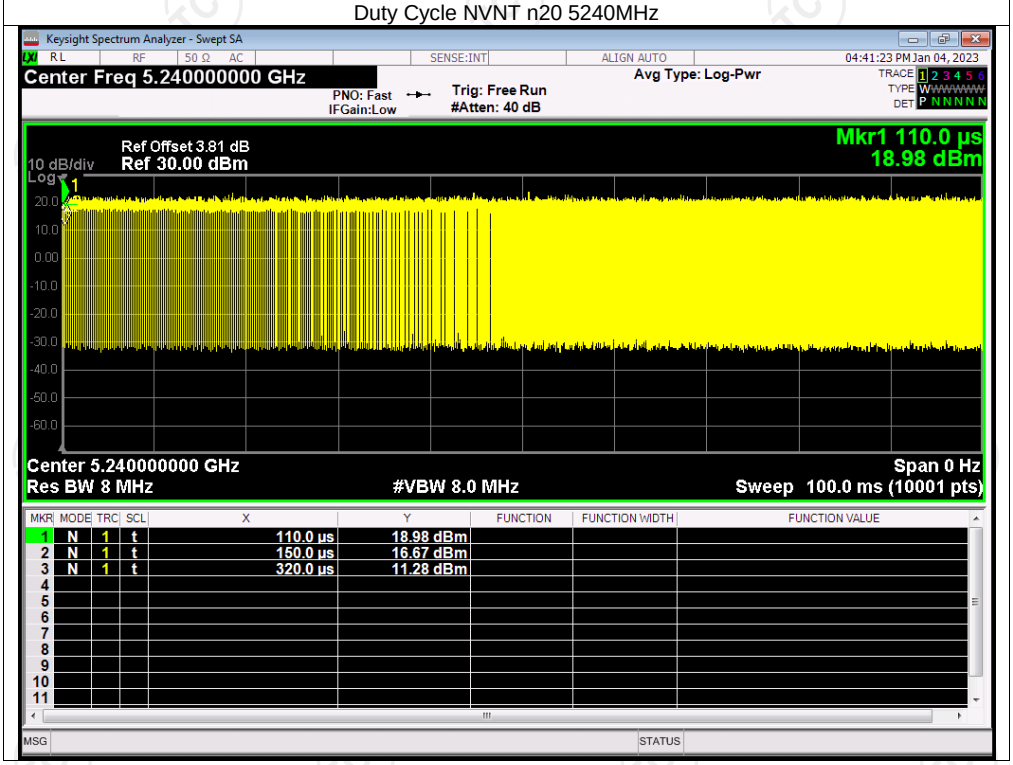
Duty Cycle NVNT n20 5180MHz



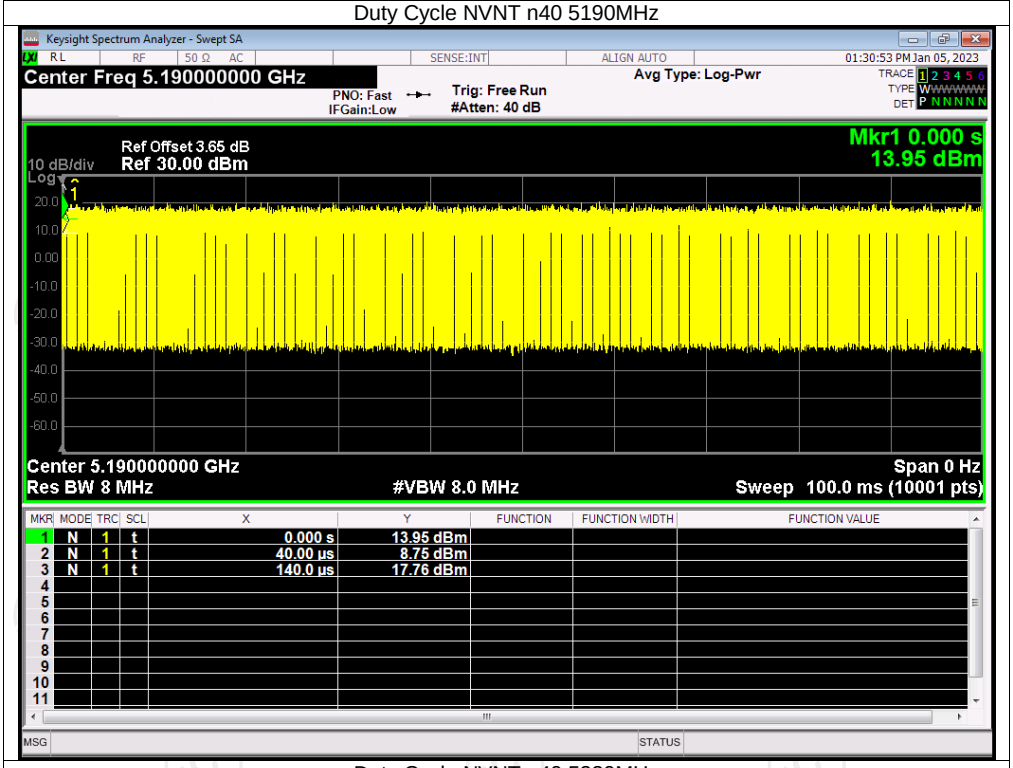
Duty Cycle NVNT n20 5200MHz



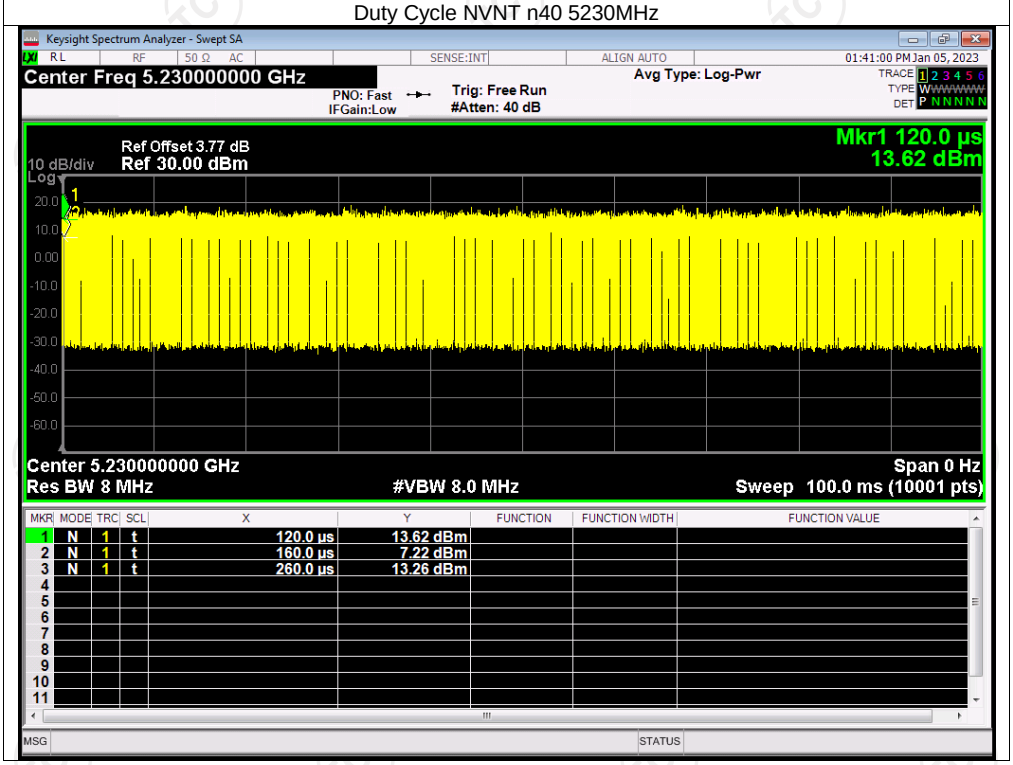
Duty Cycle NVNT n20 5240MHz



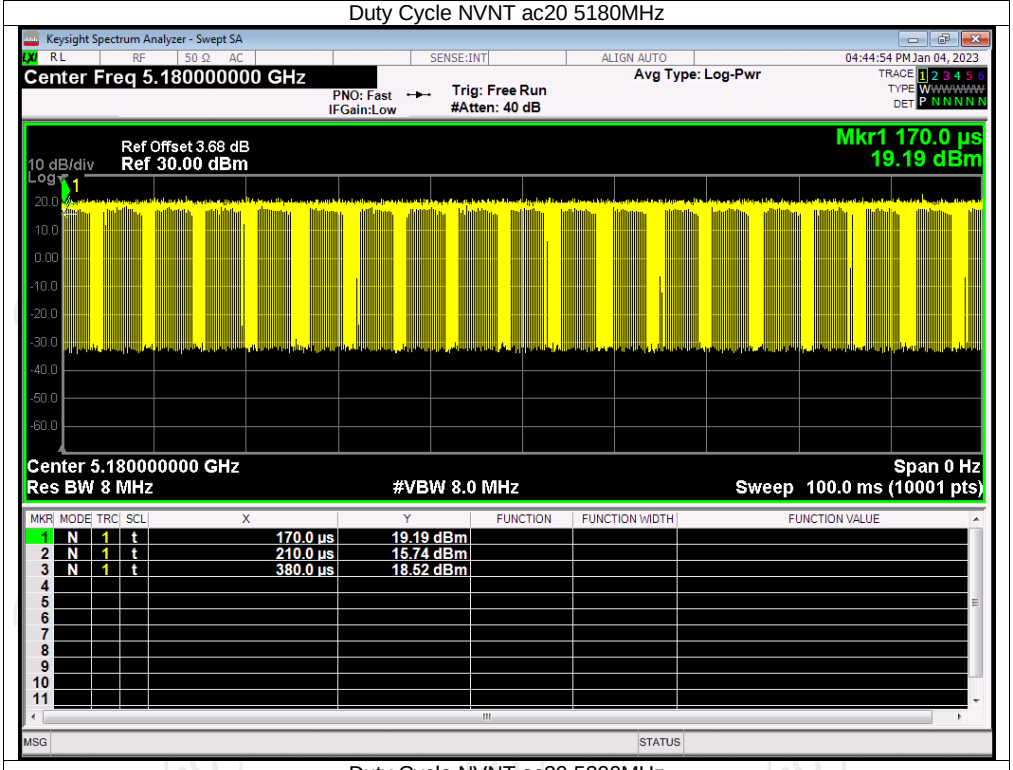
Duty Cycle NVNT n40 5190MHz



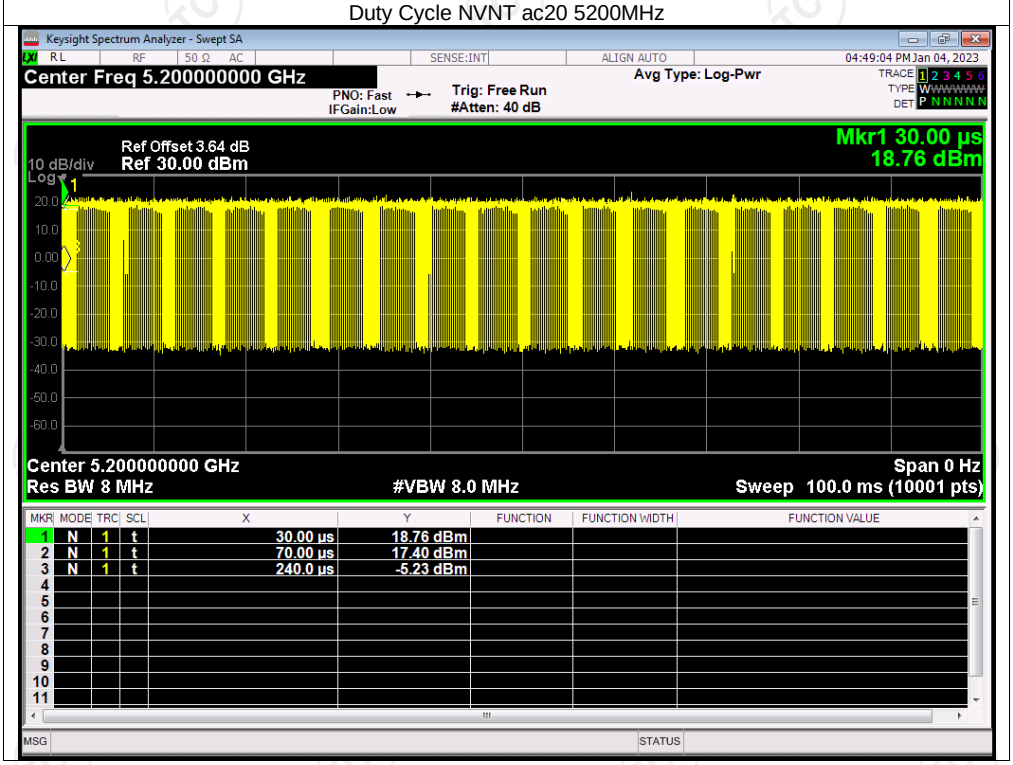
Duty Cycle NVNT n40 5230MHz



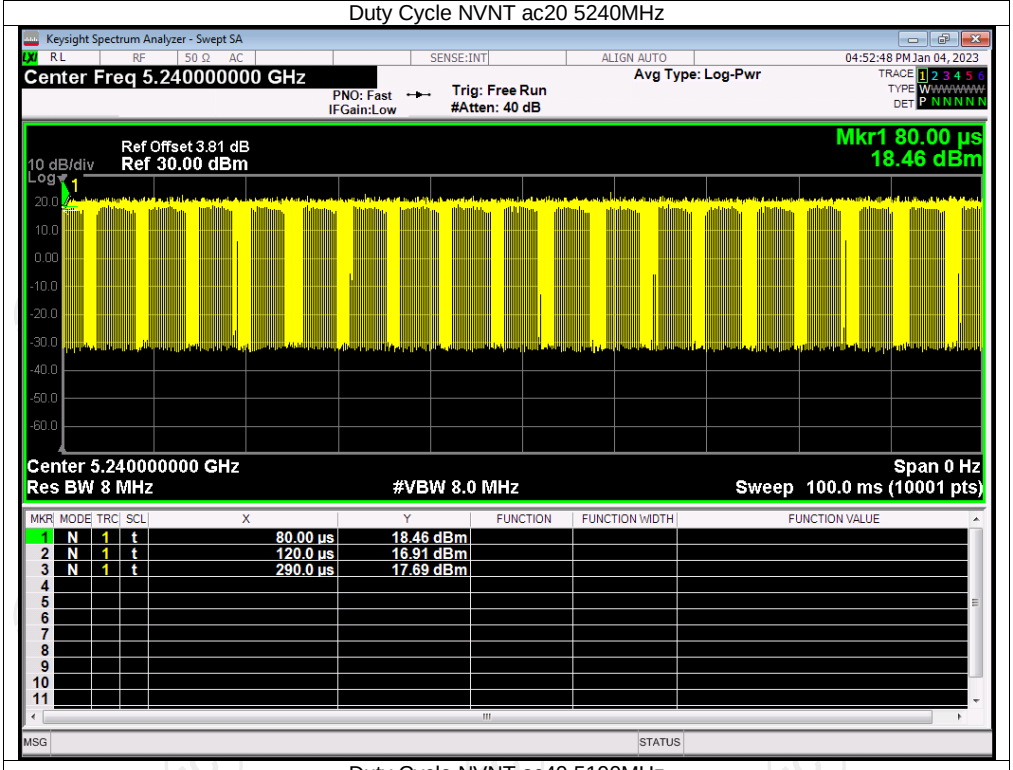
Duty Cycle NVNT ac20 5180MHz



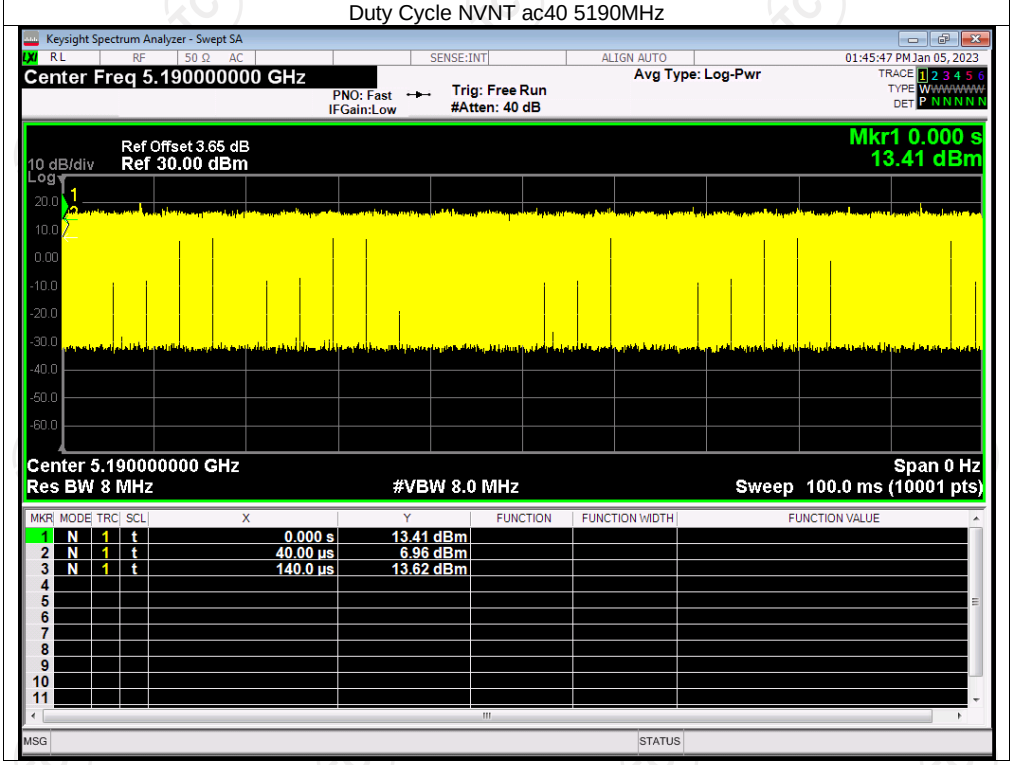
Duty Cycle NVNT ac20 5200MHz



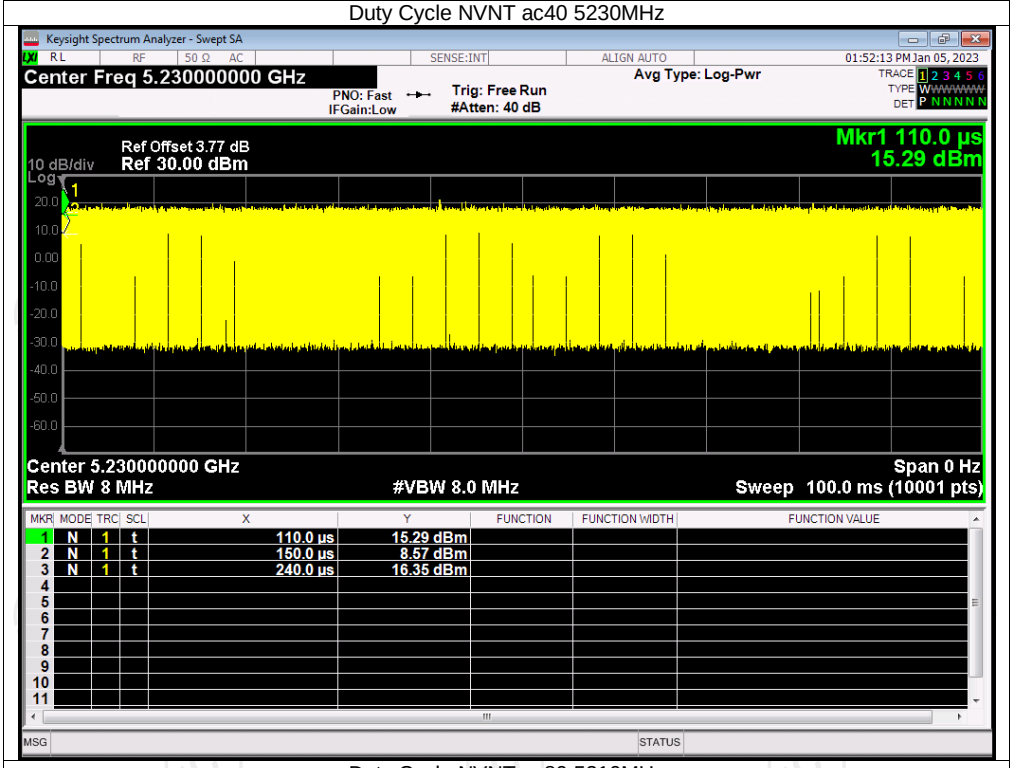
Duty Cycle NVNT ac20 5240MHz



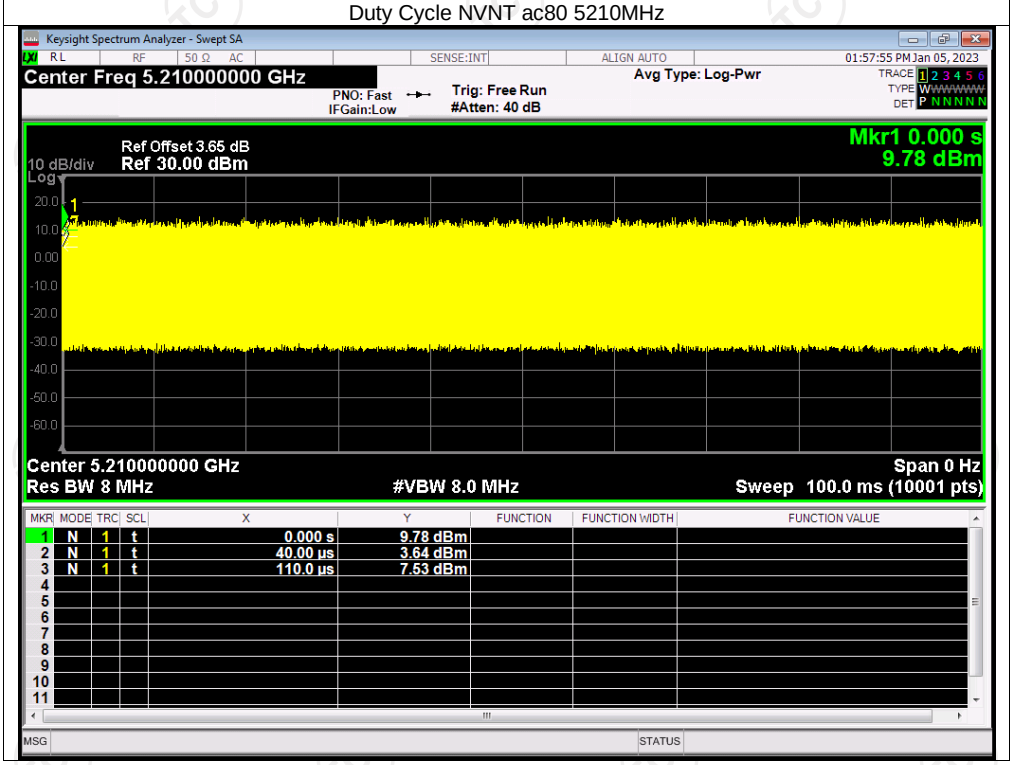
Duty Cycle NVNT ac40 5190MHz



Duty Cycle NVNT ac40 5230MHz

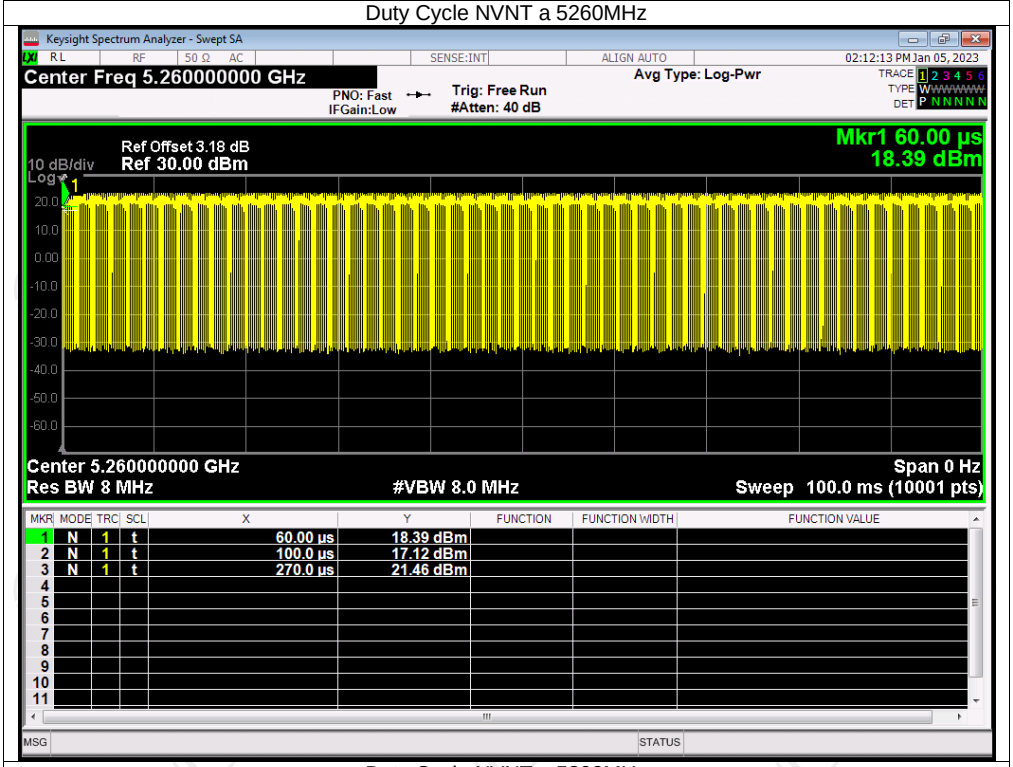


Duty Cycle NVNT ac80 5210MHz

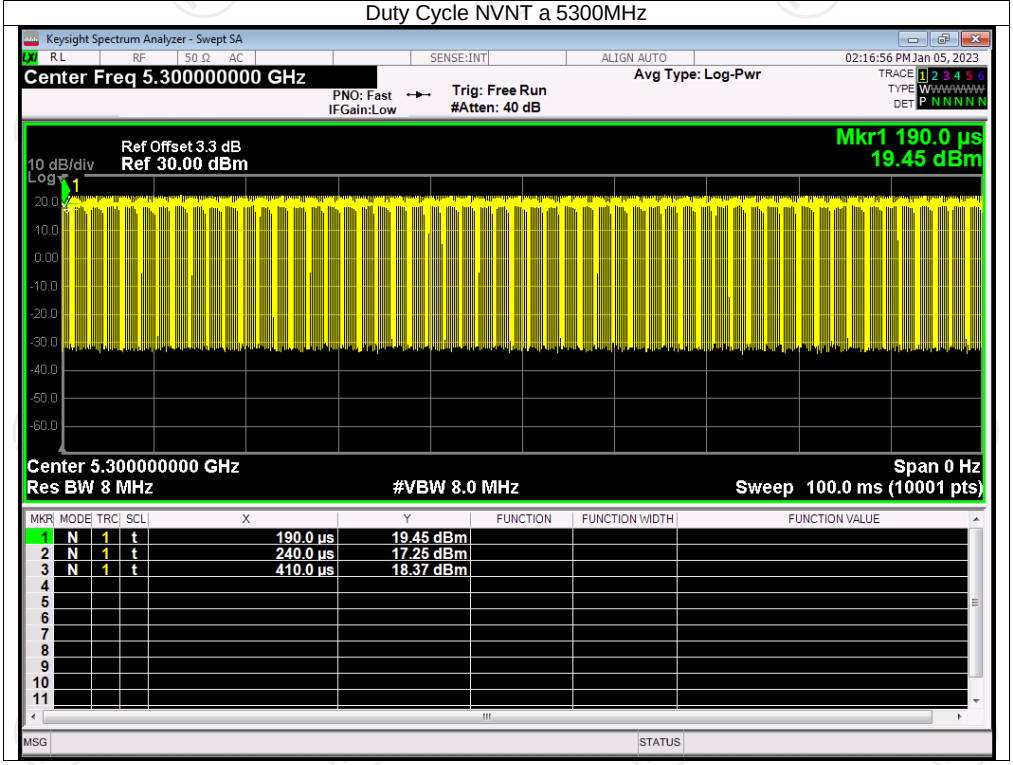


Test Graphs

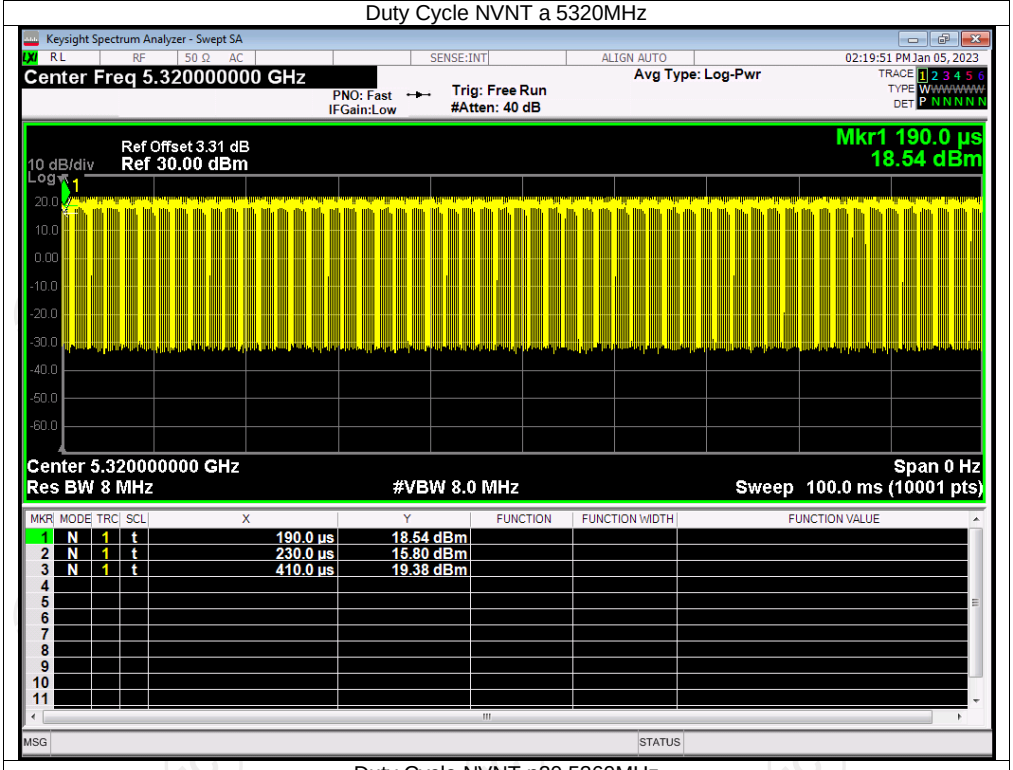
Duty Cycle NVNT a 5260MHz



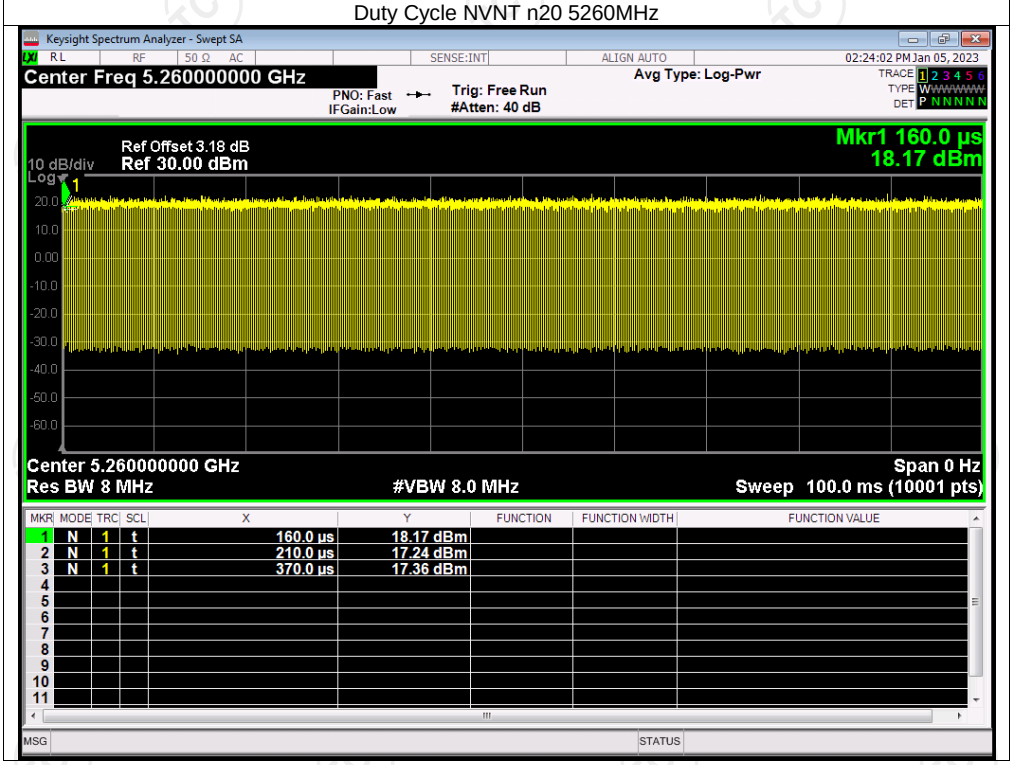
Duty Cycle NVNT a 5300MHz



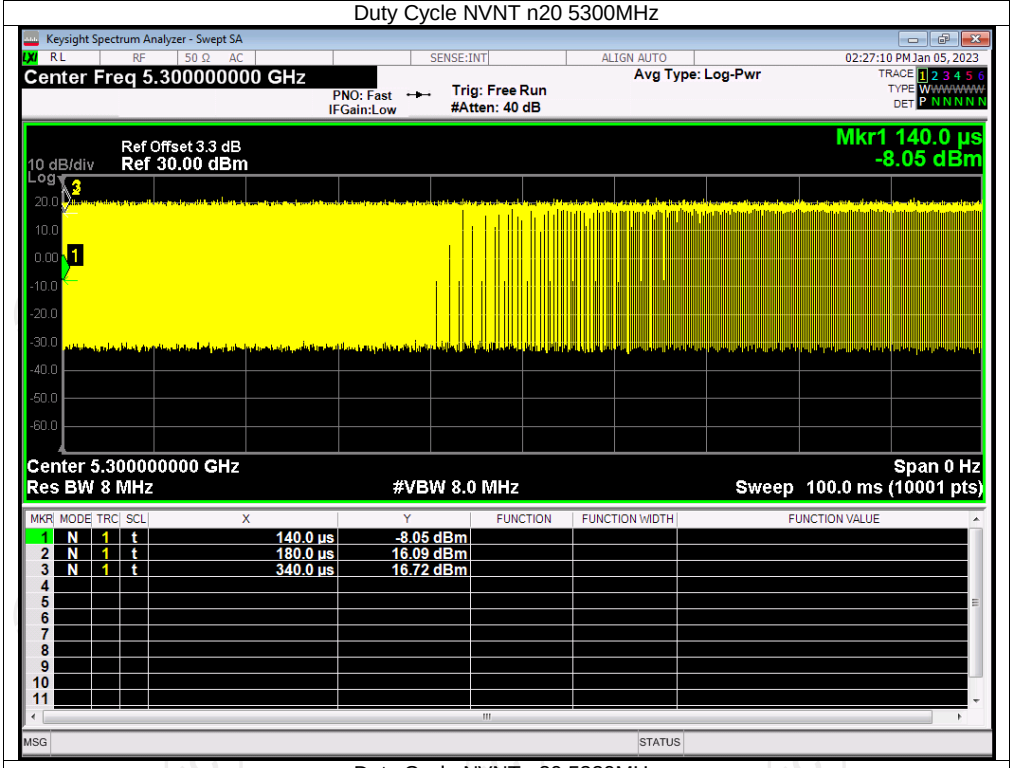
Duty Cycle NVNT a 5320MHz



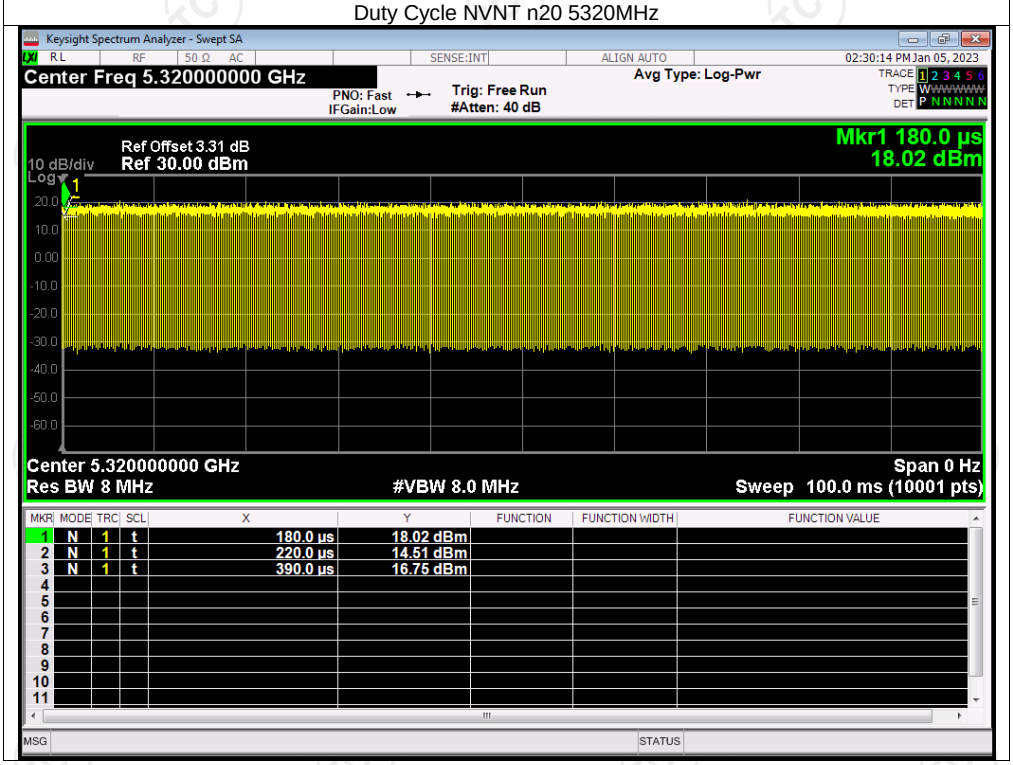
Duty Cycle NVNT n20 5260MHz



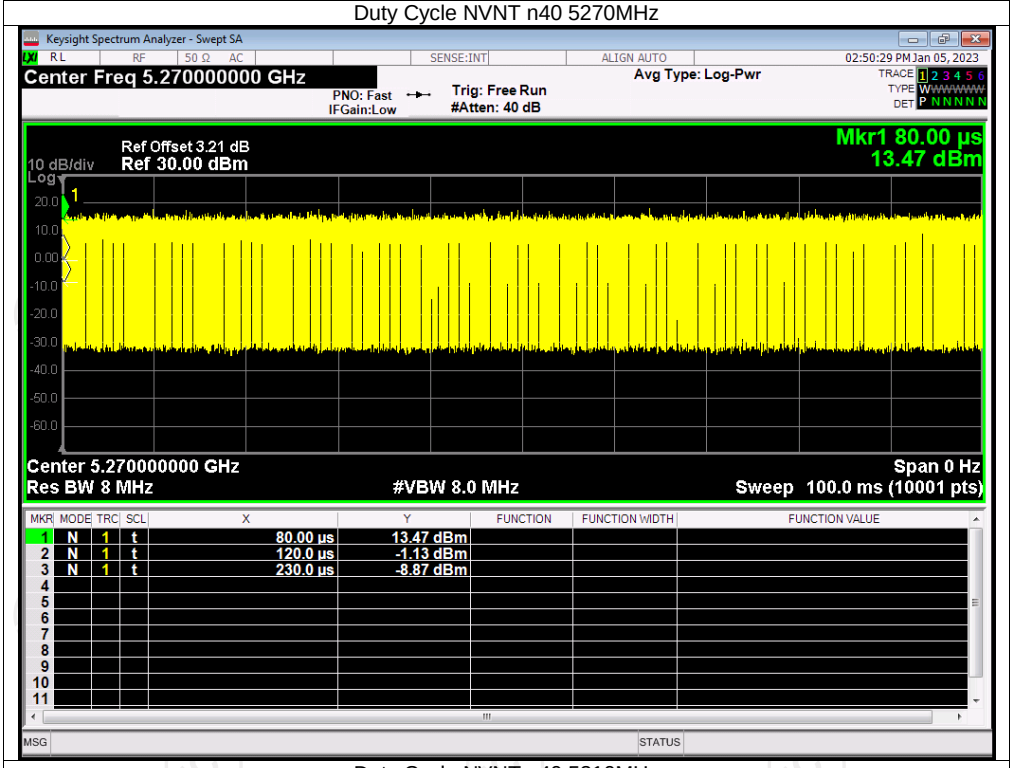
Duty Cycle NVNT n20 5300MHz



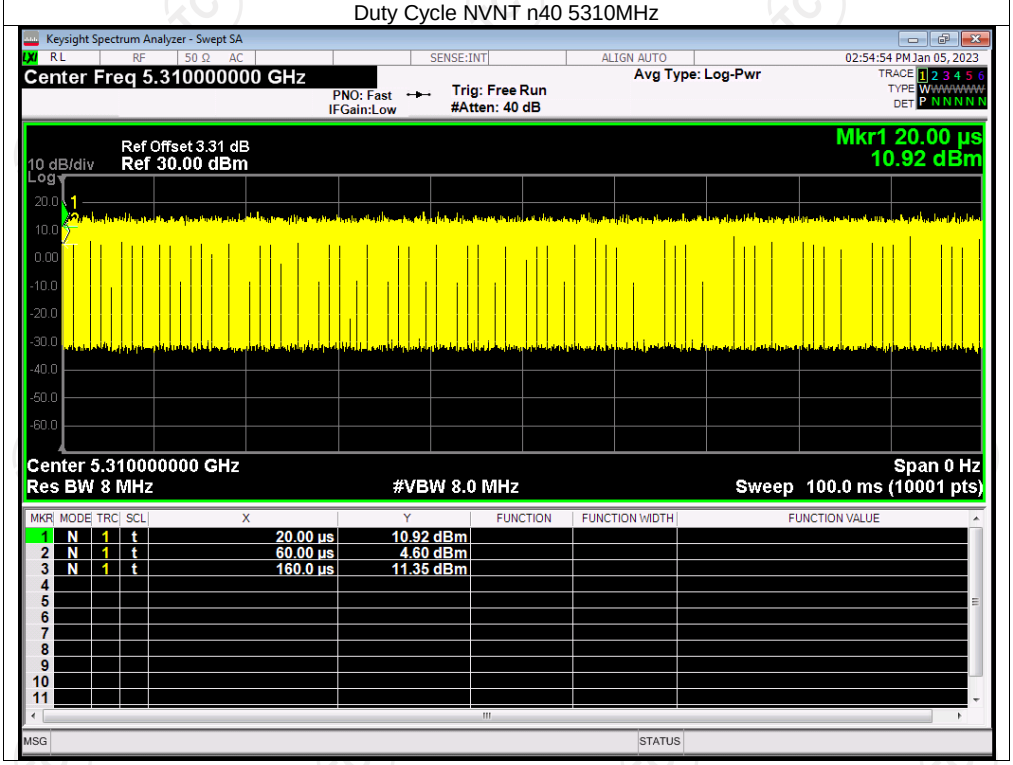
Duty Cycle NVNT n20 5320MHz



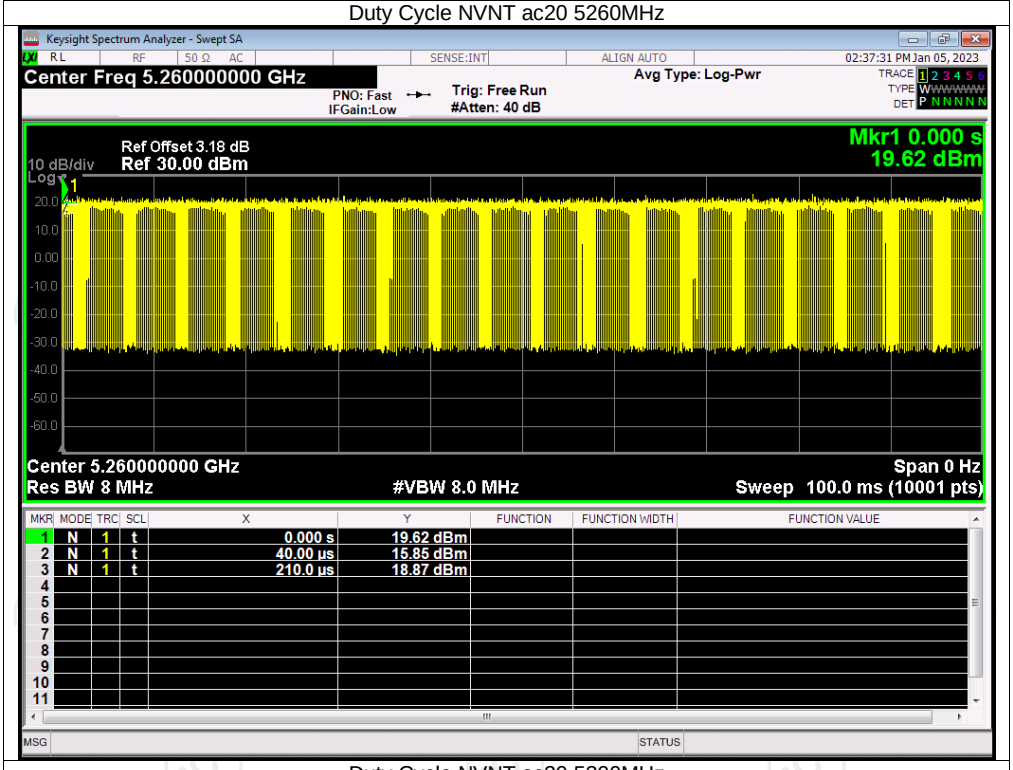
Duty Cycle NVNT n40 5270MHz



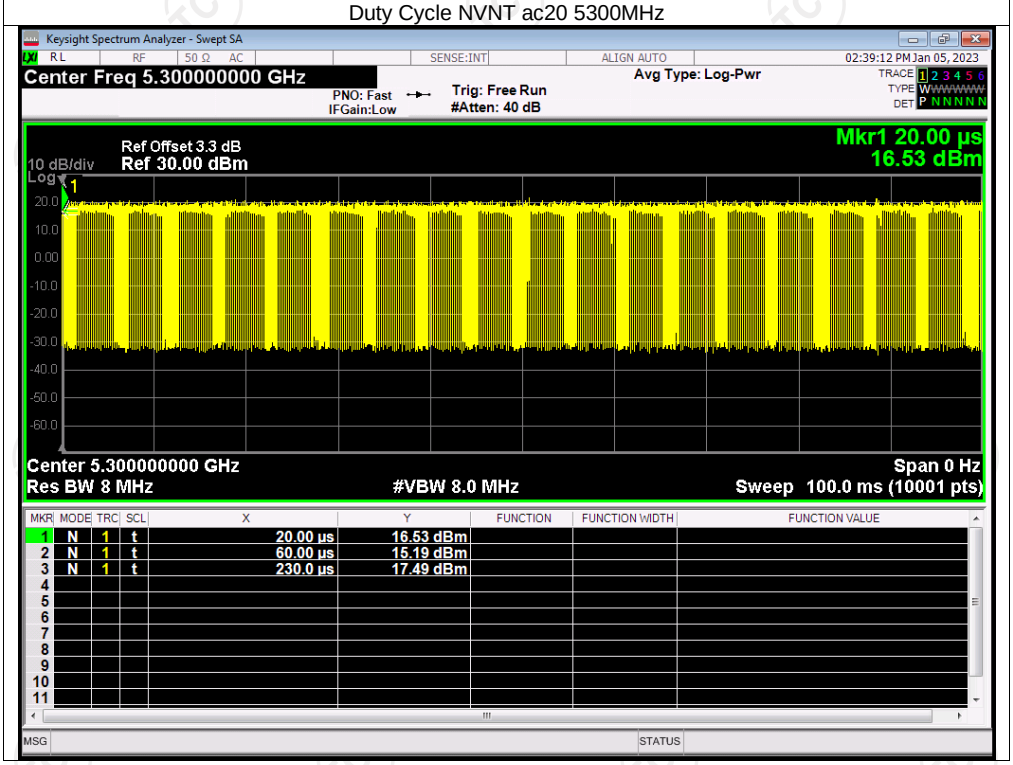
Duty Cycle NVNT n40 5310MHz



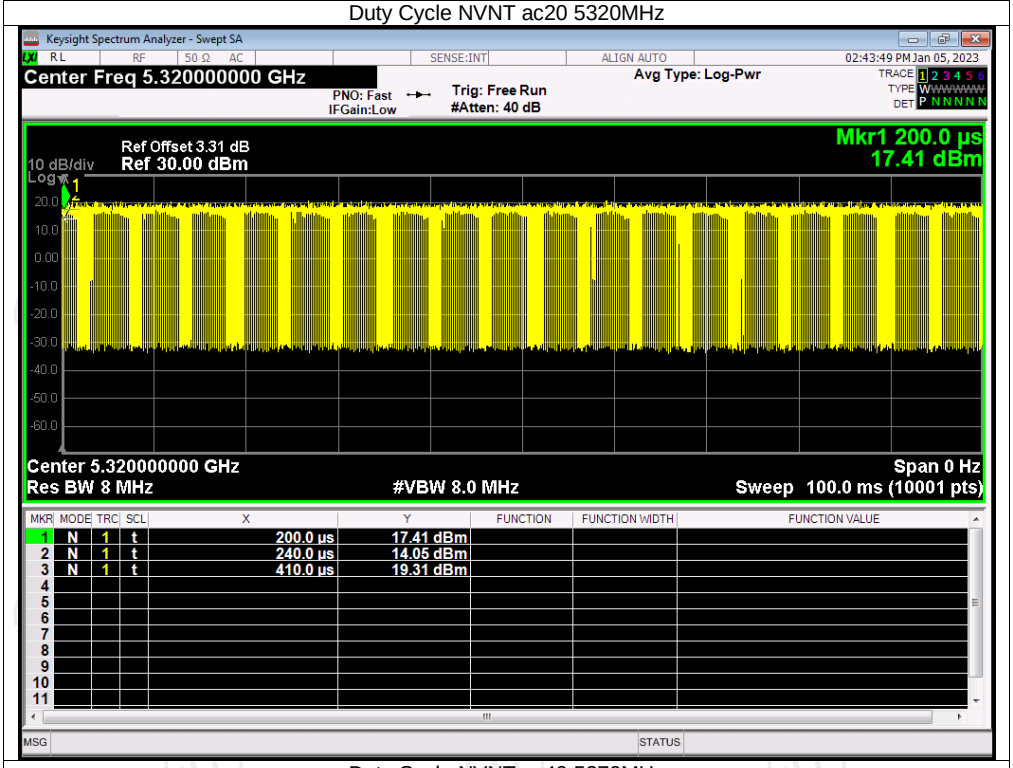
Duty Cycle NVNT ac20 5260MHz



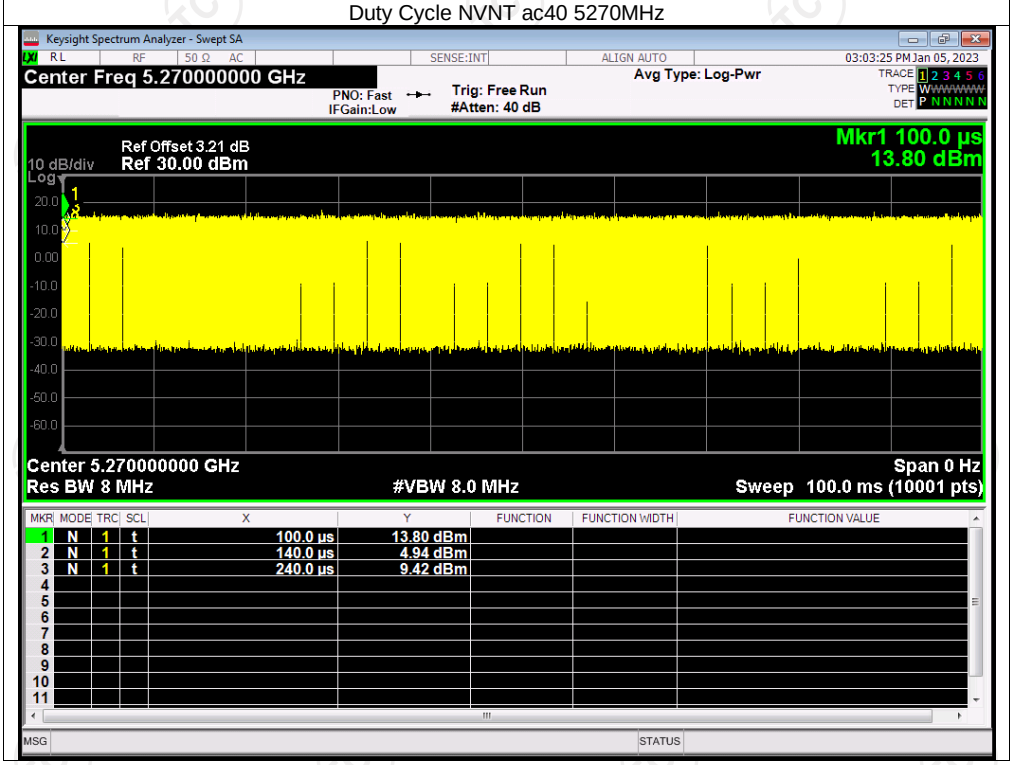
Duty Cycle NVNT ac20 5300MHz



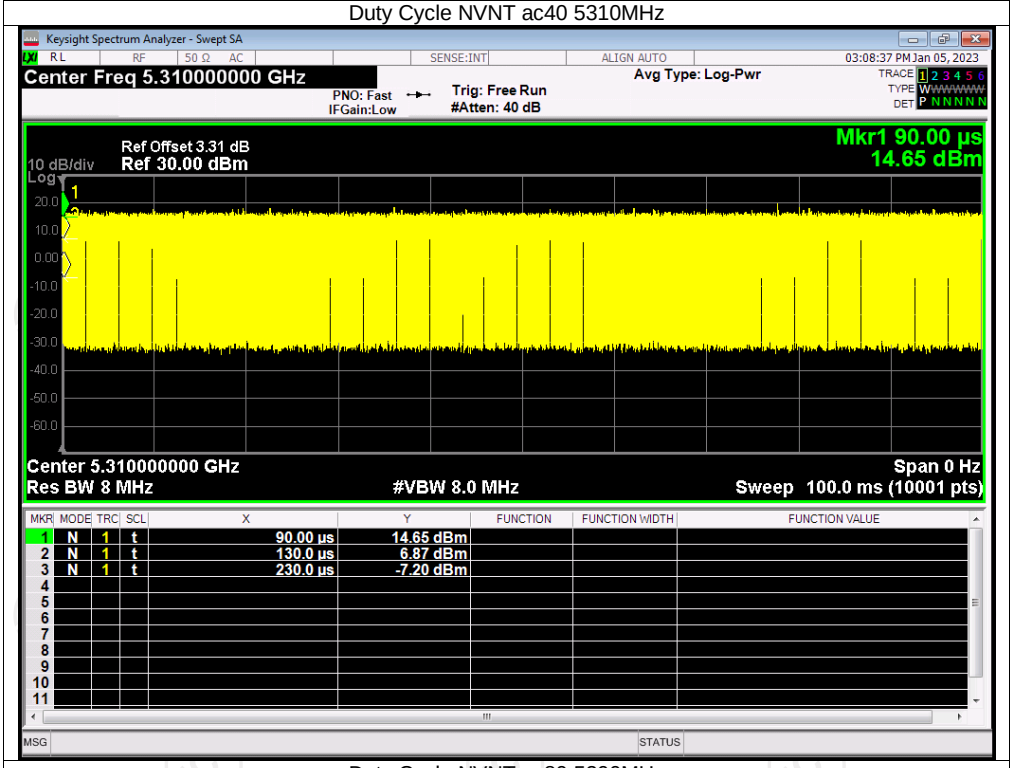
Duty Cycle NVNT ac20 5320MHz



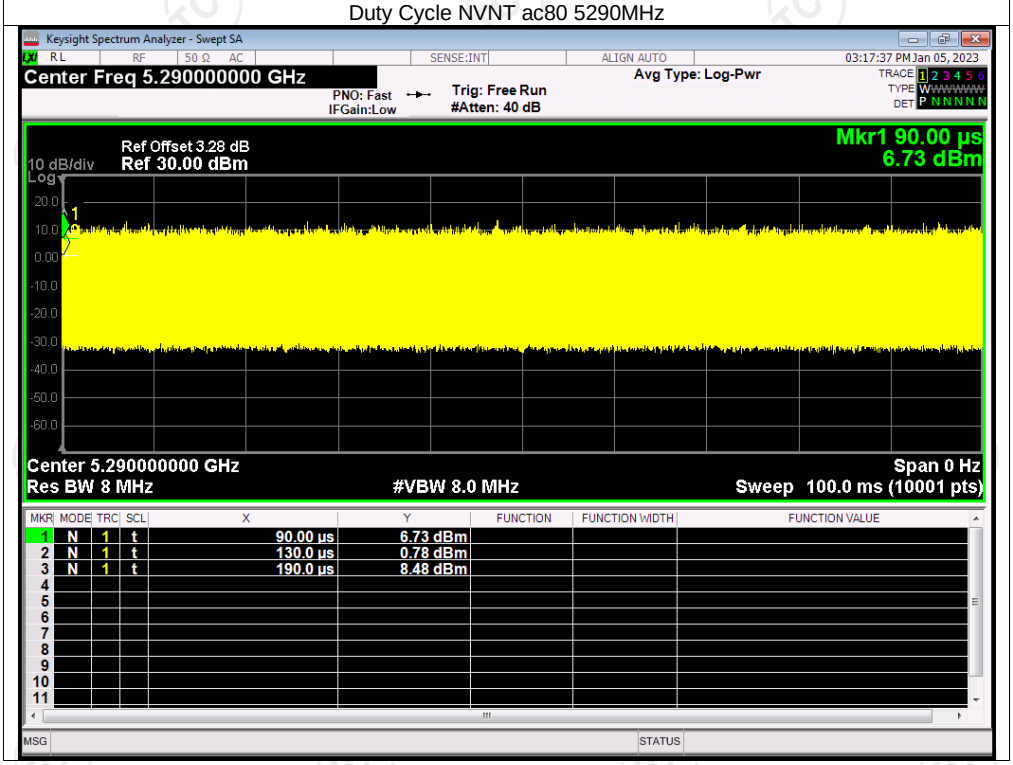
Duty Cycle NVNT ac40 5270MHz



Duty Cycle NVNT ac40 5310MHz

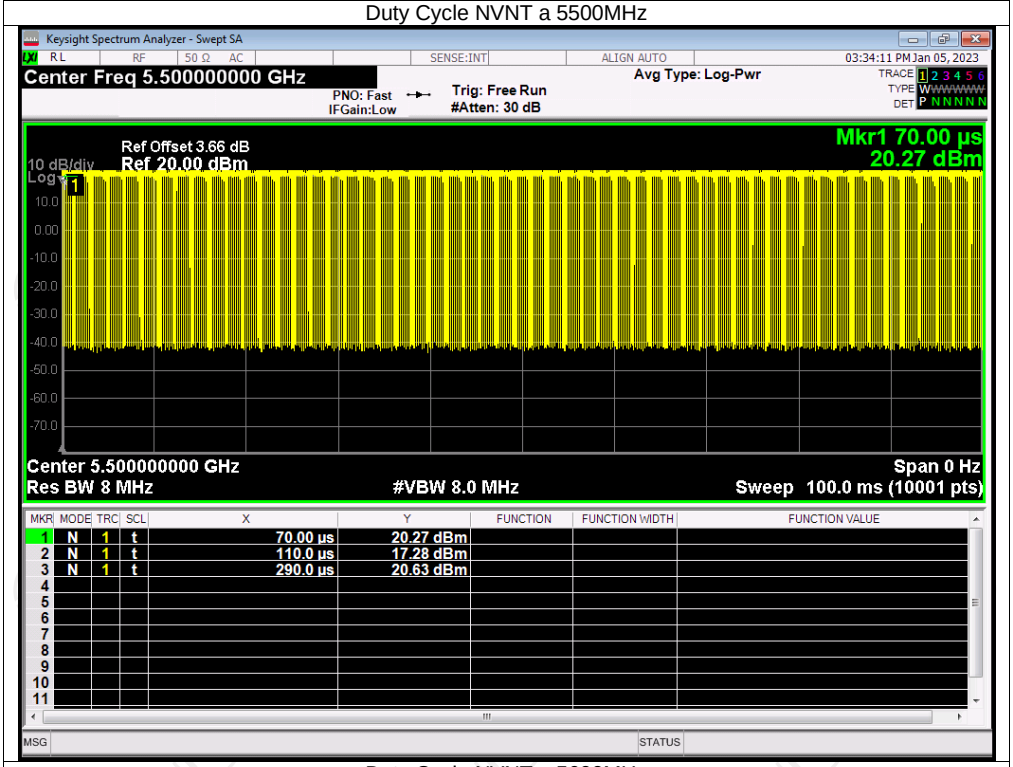


Duty Cycle NVNT ac80 5290MHz

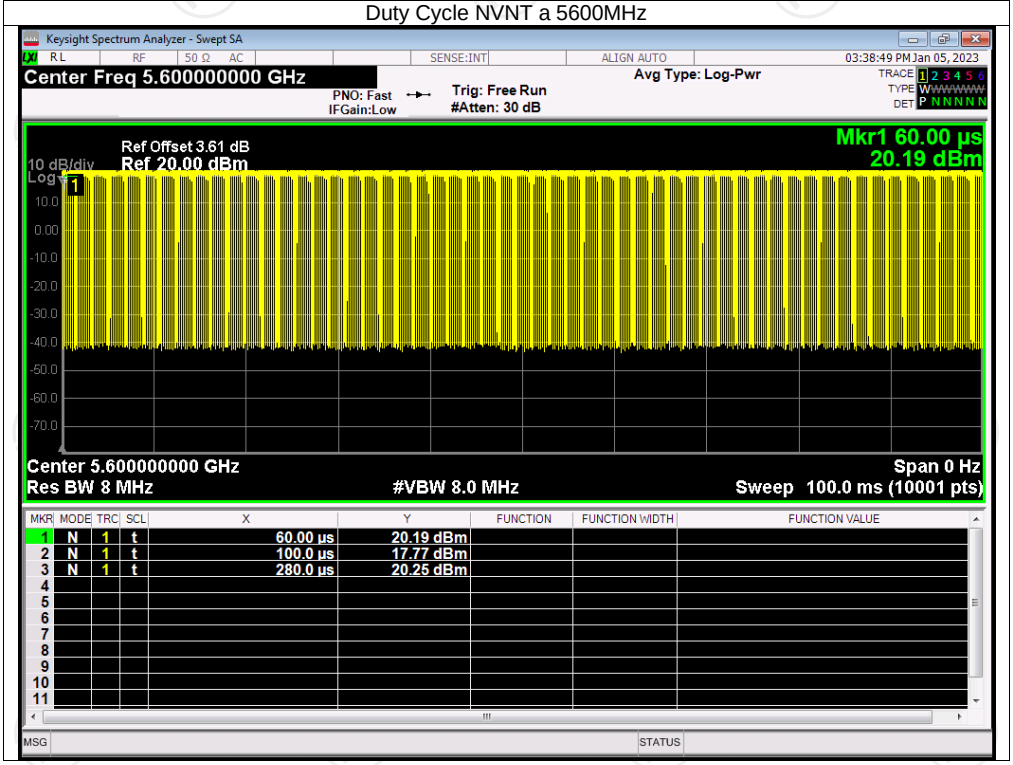


Test Graphs

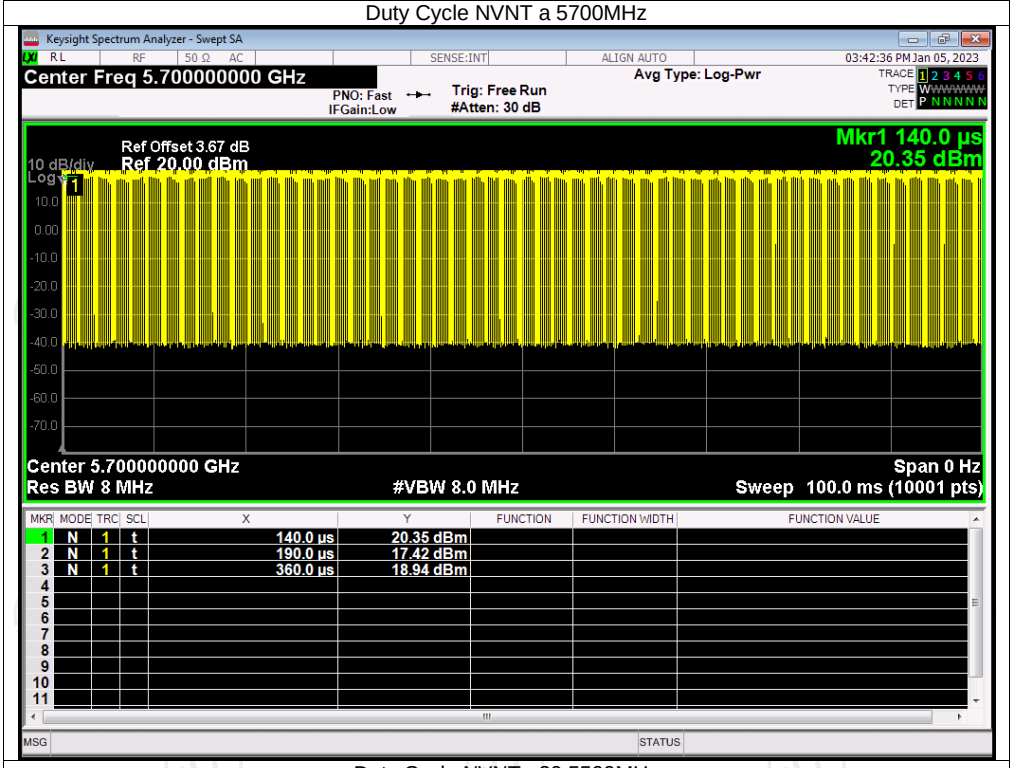
Duty Cycle NVNT a 5500MHz



Duty Cycle NVNT a 5600MHz



Duty Cycle NVNT a 5700MHz



Duty Cycle NVNT n20 5500MHz