FCC TEST REPORT
FCC ID: 2A9V8-STARRYHUB

Product	:	Business Conference System
Model Name	:	StarryHub Q1 Pro、StarryHub Q1、StarryHub Q1S、StarryHub Q1S Max、StarryHub Q1S Plus、StarryHub Q1S Pro
Brand	:	CZUR
Report No.	:	PTC22091504702E-FC04
Sample ID	:	PTC22091504702E-01#
Prepared for		
CZUR TECH CO., LTD		
RM722, Block B, Podium of Buiding No. 12, Shenzhen Bay Eco-Technology Park, No. 10 Gaoxin South RD., Nanshan District, Shenzhen, China		
Prepared by		
Precise Testing & Certification Co., Ltd.		
Building 1, No. 6, Tongxin Road, Dongcheng Street, Dongguan, Guangdong, China		

1 TEST RESULT CERTIFICATION

Applicant's name	:	CZUR TECH CO., LTD
Address	:	RM722, Block B, Podium of Buiding No. 12, Shenzhen Bay Eco-Technology Park, No. 10 Gaoxin South RD., Nanshan District, Shenzhen, China
Manufacture's name	:	CZUR TECH CO., LTD
Address	:	RM722, Block B, Podium of Buiding No. 12, Shenzhen Bay Eco-Technology Park, No. 10 Gaoxin South RD., Nanshan District, Shenzhen, China
Product name	:	Business Conference System
Model name	:	StarryHub Q1 Pro、StarryHub Q1、StarryHub Q1S、StarryHub Q1S Max、StarryHub Q1S Plus、StarryHub Q1S Pro
Standards	:	FCC CFR47 Part 15 Section 15.407
Test procedure	:	ANSI C63.10:2013
Test Date	:	Oct. 28, 2022 to Dec. 08, 2022
Date of Issue	:	Dec. 08, 2022
Test Result	:	Pass

This device described above has been tested by PTC, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

This report shall not be reproduced except in full, without the written approval of PTC, this document may be altered or revised by PTC, personal only, and shall be noted in the revision of the document.

Test Engineer:

Simon Pu / Engineer

Technical Manager:

Ronnie Liu / Manager

Contents Page

1 TEST RESULT CERTIFICATION 2

2 TEST SUMMARY 5

2.1 TEST SITE 5

3 GENERAL INFORMATION 6

3.1 GENERAL DESCRIPTION OF EUT 6

3.2 DESCRIPTION OF TEST CONDITIONS 38

4 EQUIPMENTS LIST FOR ALL TEST ITEMS 39

4.1 MEASUREMENT UNCERTAINTY 40

4.2 DESCRIPTION OF SUPPORT UNITS 42

5 TEST RESULT 43

5.1 CONDUCTION EMISSIONS MEASUREMENT 43

5.1.1 Applied procedures / Limit 43

5.1.3 Test procedure 44

5.1.4 DEVIATION FROM TEST STANDARD 45

5.1.5 TEST SETUP 45

5.1.6 Test results 46

5.2 RADIATED EMISSIONS MEASUREMENT 48

5.2.1 Applied procedures / Limit 48

5.2.3 Radiated Emissions Test Data 53

5.3 RADIATED RESTRICTED BAND EDGE MEASUREMENT 84

5.3.1 Applied procedures / Limit 84

5.3.2 Test procedure 84

5.3.3 Deviation from standard 85

5.3.4 Test results 86

5.4 BANDWIDTH TEST 130

5.4.1 Applied procedures / Limit 130

5.4.2 Test procedure 130

5.4.3 Deviation from standard 132

5.4.4 Test setup 132

5.4.5 Test results 133

5.5 PEAK POWER DENSITY 207

5.5.1 Applied procedures / Limit 207

5.5.2 Test procedure 207

5.5.3 TEST SETUP 207
5.5.4 Deviation from standard 207
5.5.5 Test results 208
5.6 MAXIMUM PEAK OUTPUT POWER 238
5.6.1 Applied procedures / Limit 238
5.6.2 Test procedure 238
5.6.3 Test Setup 238
5.6.4 Deviation from standard 239
5.6.5 Test results 240
5.7 FREQUENCY STABILITY MEASUREMENT 272
5.7.1 Applied procedures / Limit 272
5.7.2 Test procedure 272
5.7.3 Deviation from standard 272
5.7.4 Test setup 272
5.7.5 Test results 273
5.8 AUTOMATICALLY DISCONTINUE TRANSMISSION 281
5.8.1 LIMIT OF AUTOMATICALLY DISCONTINUE TRANSMISSION 281
5.8.2 TEST RESULT OF AUTOMATICALLY DISCONTINUE TRANSMISSION 281
5.9 ANTENNA REQUIREMENT 281
5.9.1 STANDARD REQUIREMENT 281
5.9.2 EUT ANTENNA 281

6 PHOTOGRAPHS 282

6.1 RADIATED EMISSION TEST SETUP 282
6.2 CONDUCTION EMISSION TEST SETUP 283
6.3 EUT CONSTRUCTIONAL DETAILS 284

1 Test Summary

FCC Part15 (15.407)		
Test Item	FCC standard	Judgment
AC Conducted Emission	15.207	PASS
26dB/6dB Bandwidth	§ 15.407 (a) (26 dB) / § 15.407 (e) (6 dB)	PASS
Maximum Conducted Output Power	15.407(a)	PASS
Radiated Emission And (Unwanted Emissions) Measurement	15.407(b)& 15.209	PASS
Radiated Restricted Band Edge Measurement	15.407(b)& 15.205	PASS
Power Spectral Density	15.407(a)	PASS
Frequency Stability	15.407(g)	PASS
Automatically Discontinue Transmission	15.407(c)	PASS
Antenna Requirement	15.203	PASS
Note: Reference to the ANSI C63.10-2013, KDB 789033 D02v01r01, KDB 662911 D01v02r01. " N/A" denotes test is not applicable in this Test Report.		

1.1 Test Site

Precise Testing & Certification Co., Ltd.
Address: Building 1, No.6 Tongxin Road, Dongcheng Street, Dongguan,China
FCC Registration Number: 790290
Designation Number：CN1219
A2LA Certificate No.: 4408.01
IC Registration Number: 12191A
CAB identifier: CN0080

2 General Information

2.1 General Description of EUT

EUT Name:	Business Conference System
Model No.:	StarryHub Q1 Pro、StarryHub Q1、StarryHub Q1S、StarryHub Q1S Max、StarryHub Q1S Plus、StarryHub Q1S Pro
Operation frequency:	For 802.11a/n-HT20/ac-VHT20: 5180~5240MHz, 5745~5825MHz For 802.11n-HT40/ac-VHT40: 5190~5230MHz, 5755~5795MHz For 802.11ac-VHT80: 5210MHz, 5775MHz
Modulation Type and	802.11a/n/ac: OFDM
Antenna Type:	Fpcb Antenna
Antenna Gain:	1.39dBi
Power Supply:	DC 19V adaptor input AC120V 60Hz （Model：SH-AF150W）
Hardware Version:	T.3399V01
Software Version:	Starry-CPH22A-V1.2.11

Channel List

Channel List for 802.11a/n-HT20/ac-VHT20

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	40	5200	44	5220	--	--
48	5240	149	5745	153	5765	--	--
157	5785	161	5805	165	5825	--	--

Channel List for 802.11n-HT40/ac-VHT40

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
38	5190	46	5230	151	5755	159	5795

Channel List for 802.11ac-VHT80

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
42	5210	155	5775	-	--	--	--

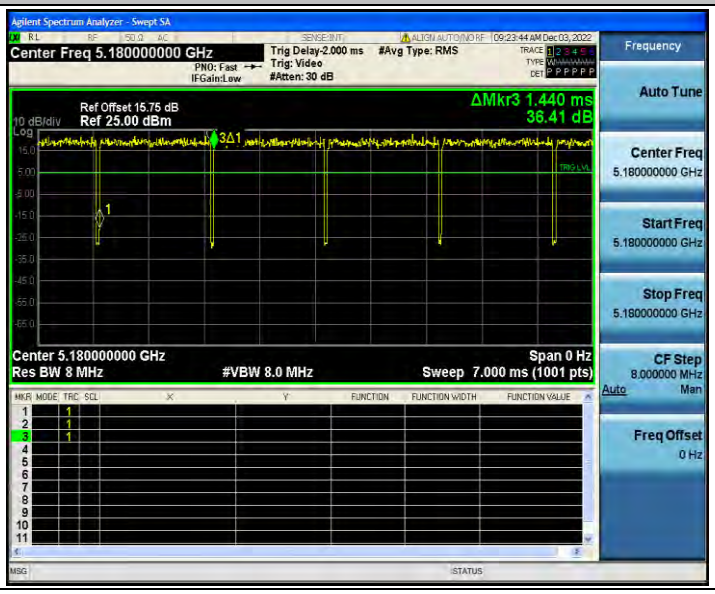
1. All the modulation modes were tested with DC 19v via adaptor,the EUT is stand alone.

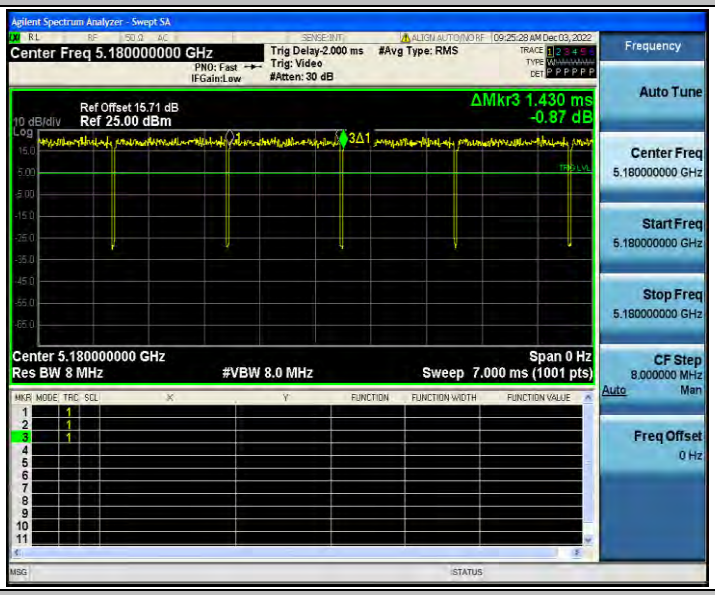
Duty Cycle

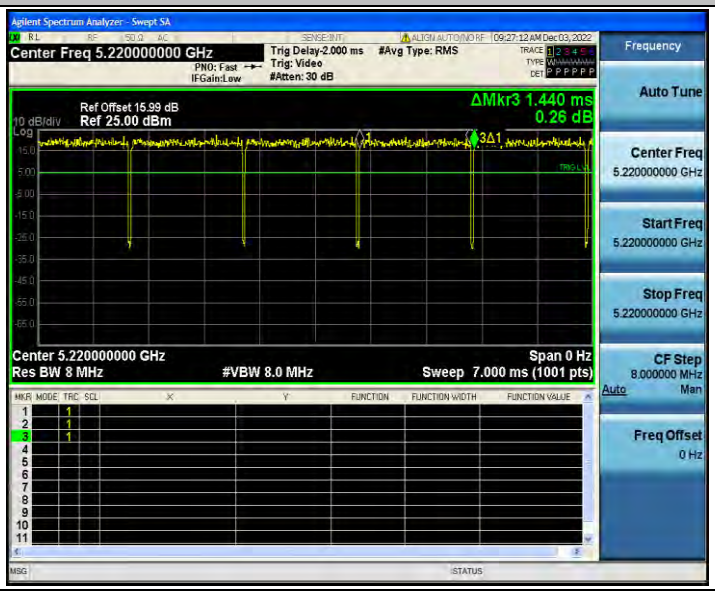
TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant1	5180	1.40	1.44	97.22
	Ant2	5180	1.39	1.43	97.20
	Ant1	5220	1.39	1.44	96.53
	Ant2	5220	1.40	1.44	97.22
	Ant1	5240	1.40	1.44	97.22
	Ant2	5240	1.40	1.44	97.22
	Ant1	5745	1.40	1.44	97.22
	Ant2	5745	1.40	1.44	97.22
	Ant1	5785	1.39	1.43	97.20
	Ant2	5785	1.39	1.43	97.20
	Ant1	5825	1.40	1.44	97.22
	Ant2	5825	1.40	1.44	97.22
11N20SISO	Ant1	5180	1.30	1.34	97.01
	Ant2	5180	1.31	1.35	97.04
	Ant1	5220	1.30	1.35	96.30
	Ant2	5220	1.30	1.34	97.01
	Ant1	5240	1.30	1.35	96.30
	Ant2	5240	1.30	1.34	97.01
	Ant1	5745	1.30	1.34	97.01
	Ant2	5745	1.30	1.34	97.01
	Ant1	5785	1.30	1.35	96.30
	Ant2	5785	1.31	1.35	97.04
	Ant1	5825	1.31	1.35	97.04
	Ant2	5825	1.31	1.35	97.04
11N40SISO	Ant1	5190	0.65	0.69	94.20
	Ant2	5190	0.65	0.69	94.20
	Ant1	5230	0.64	0.69	92.75
	Ant2	5230	0.65	0.69	94.20
	Ant1	5755	0.65	0.69	94.20
	Ant2	5755	0.65	0.69	94.20
	Ant1	5795	0.65	0.69	94.20
	Ant2	5795	0.65	0.69	94.20
11AC20SISO	Ant1	5180	1.32	1.36	97.06
	Ant2	5180	1.31	1.35	97.04
	Ant1	5220	1.32	1.36	97.06

	Ant2	5220	1.31	1.36	96.32
	Ant1	5240	1.31	1.35	97.04
	Ant2	5240	1.32	1.36	97.06
	Ant1	5745	1.32	1.36	97.06
	Ant2	5745	1.32	1.36	97.06
	Ant1	5785	1.32	1.36	97.06
	Ant2	5785	1.32	1.36	97.06
	Ant1	5825	1.32	1.36	97.06
	Ant2	5825	1.31	1.36	96.32
11AC40SISO	Ant1	5190	0.65	0.70	92.86
	Ant2	5190	0.66	0.70	94.29
	Ant1	5230	0.66	0.70	94.29
	Ant2	5230	0.66	0.70	94.29
	Ant1	5755	0.66	0.70	94.29
	Ant2	5755	0.65	0.70	92.86
	Ant1	5795	0.66	0.70	94.29
	Ant2	5795	0.65	0.70	92.86
11AC80SISO	Ant1	5210	0.33	0.37	89.19
	Ant2	5210	0.32	0.36	88.89
	Ant1	5775	0.32	0.36	88.89
	Ant2	5775	0.32	0.36	88.89

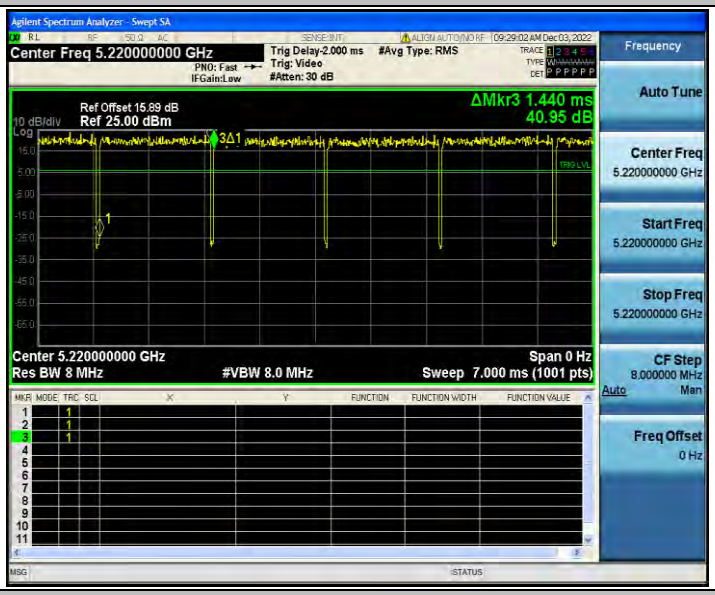
11A_Ant1_5180



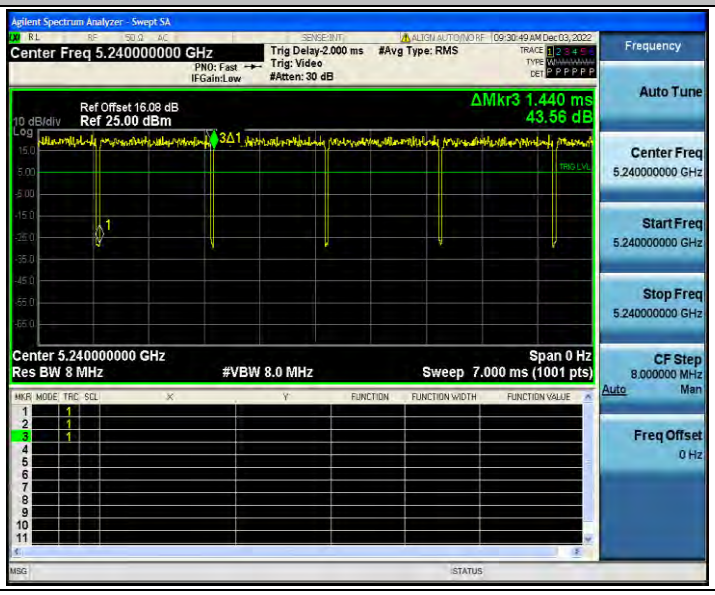
11A_Ant2_5180


11A_Ant1_5220


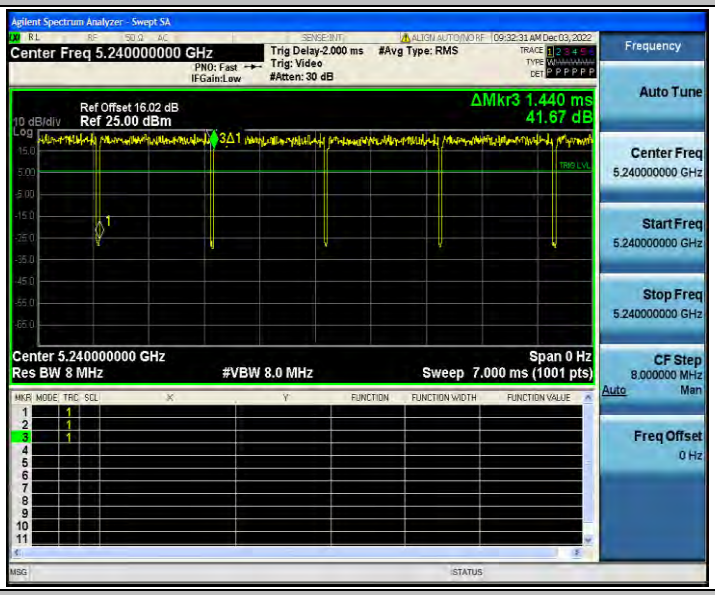
11A_Ant2_5220



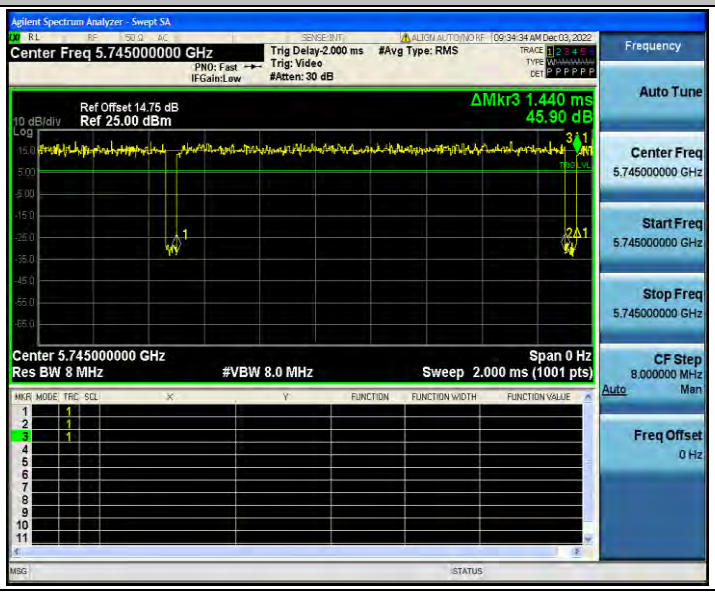
11A_Ant1_5240



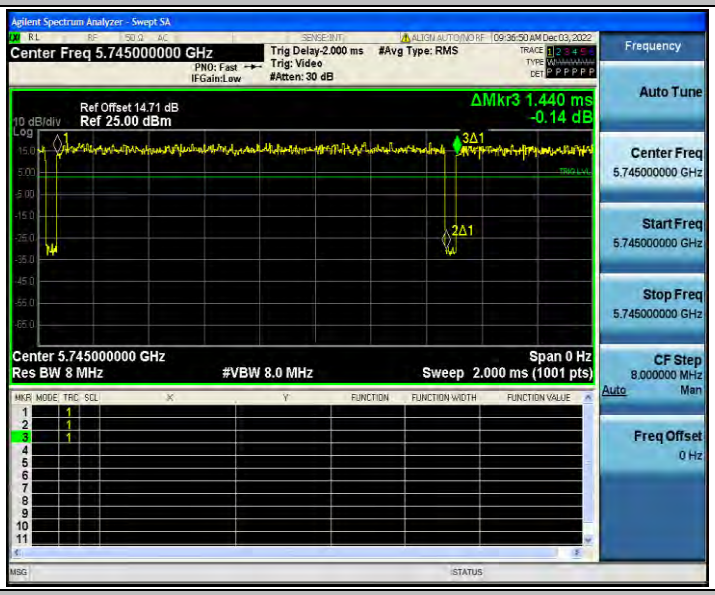
11A_Ant2_5240



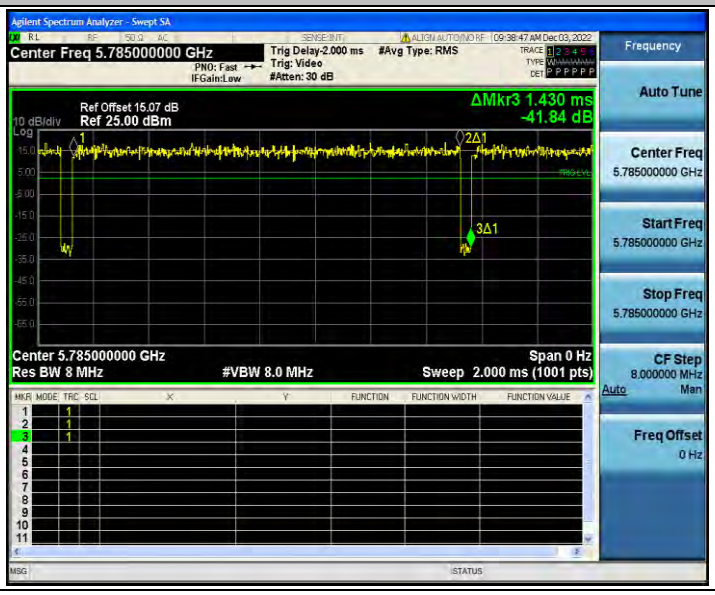
11A_Ant1_5745



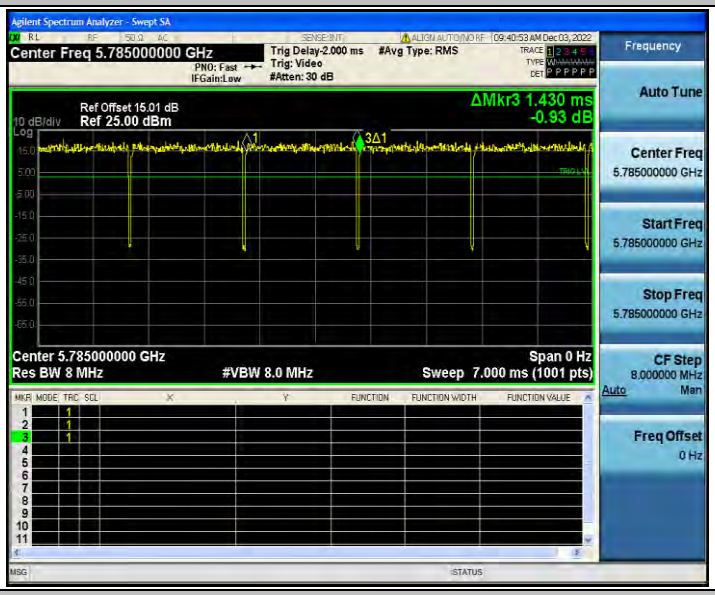
11A_Ant2_5745



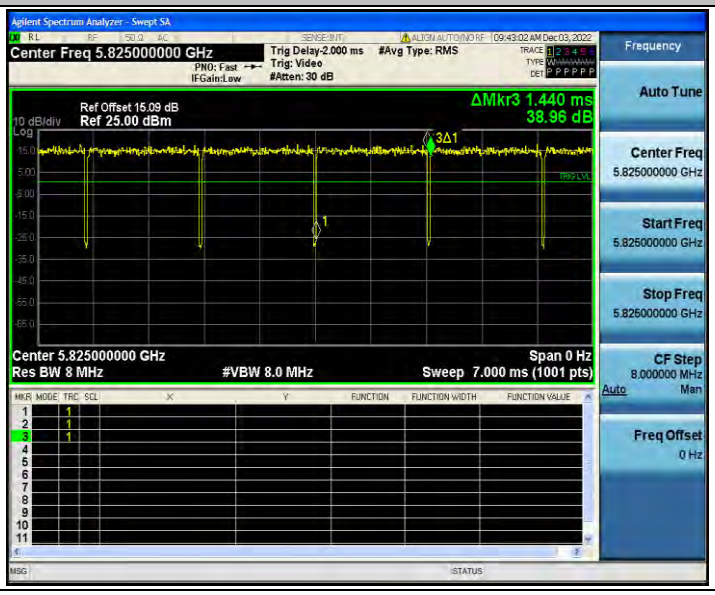
11A_Ant1_5785



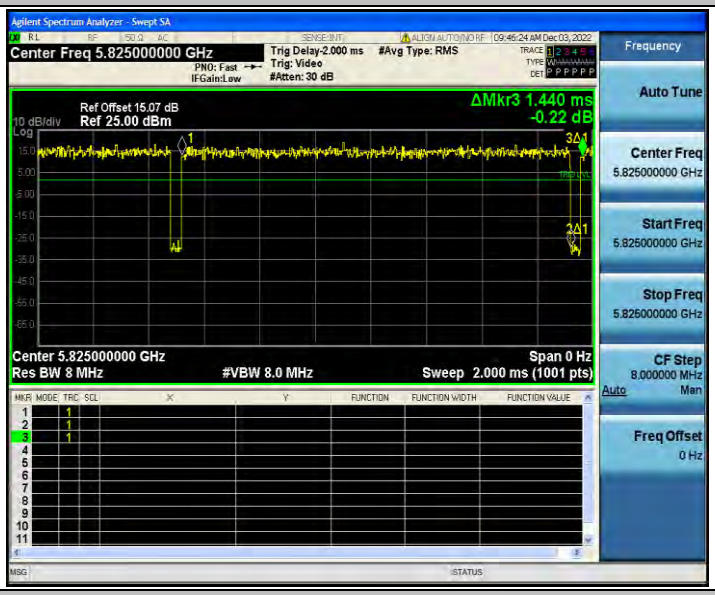
11A_Ant2_5785



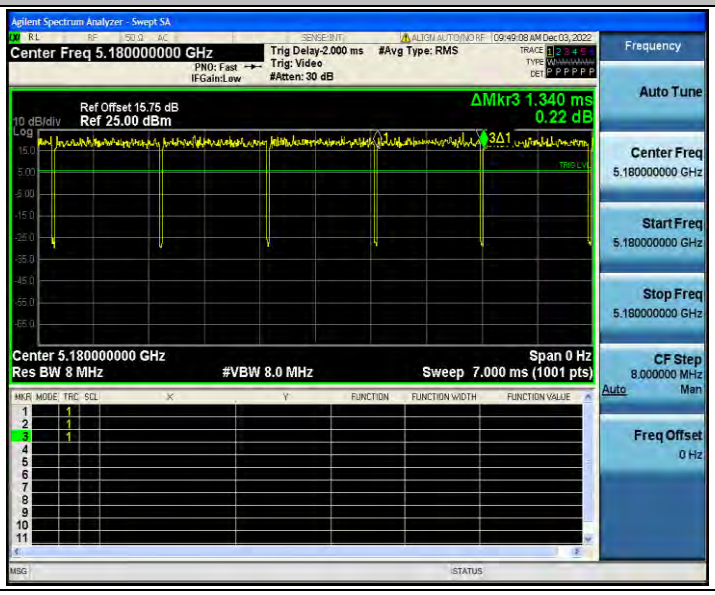
11A_Ant1_5825

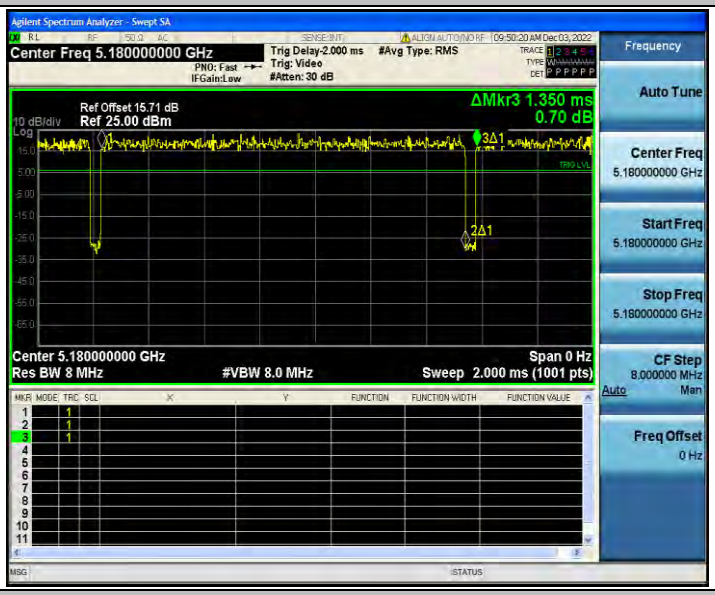


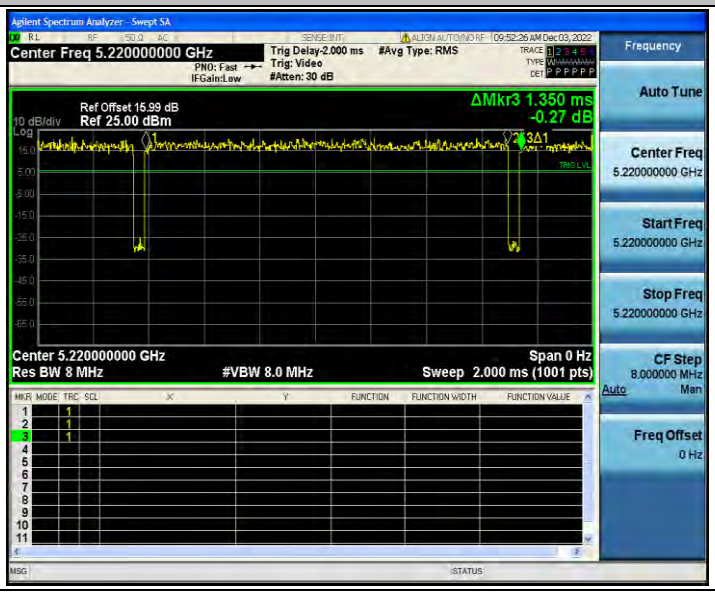
11A_Ant2_5825

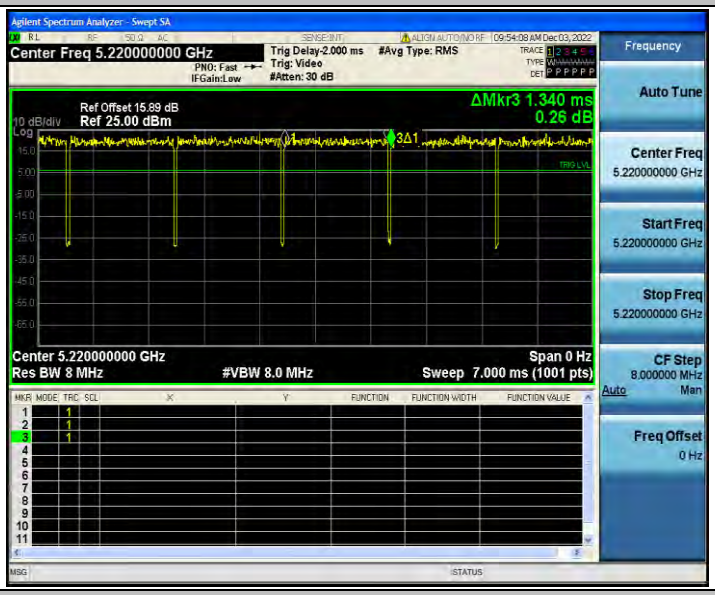


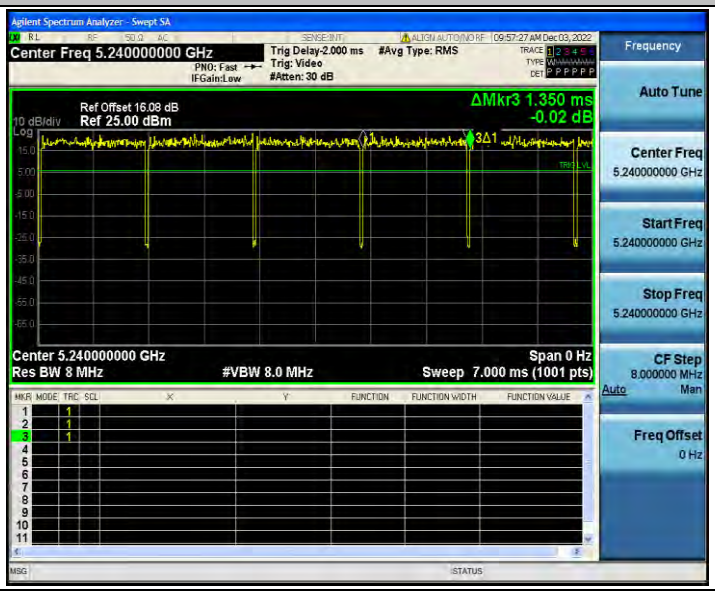
11N20SISO_Ant1_5180

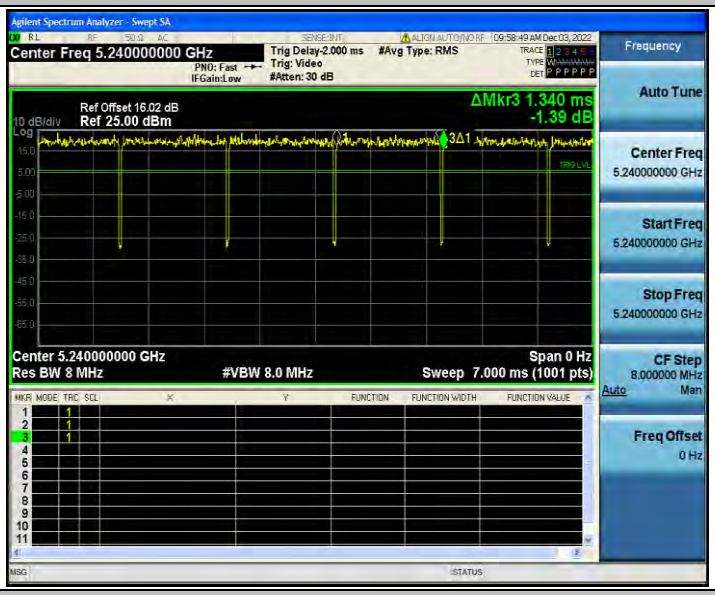


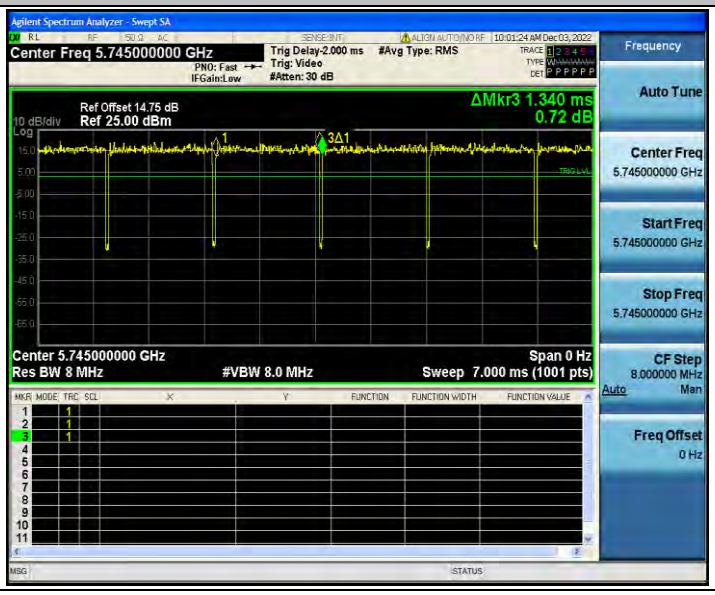
11N20SISO_Ant2_5180


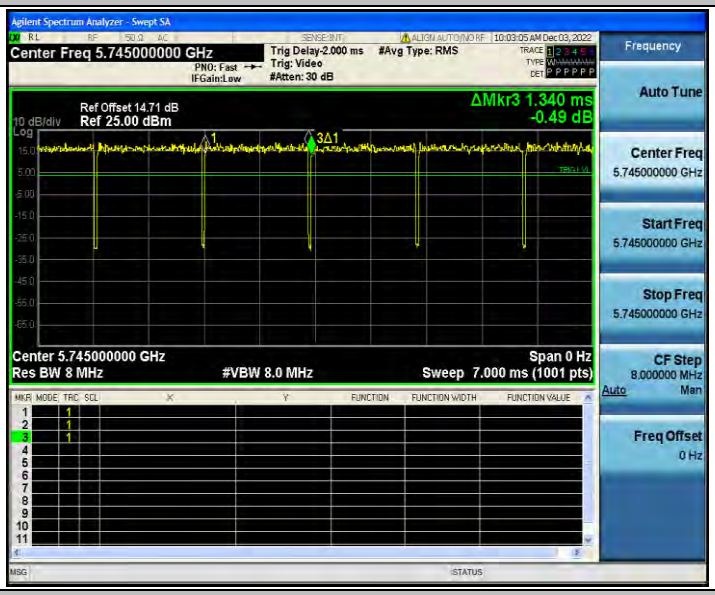
11N20SISO_Ant1_5220


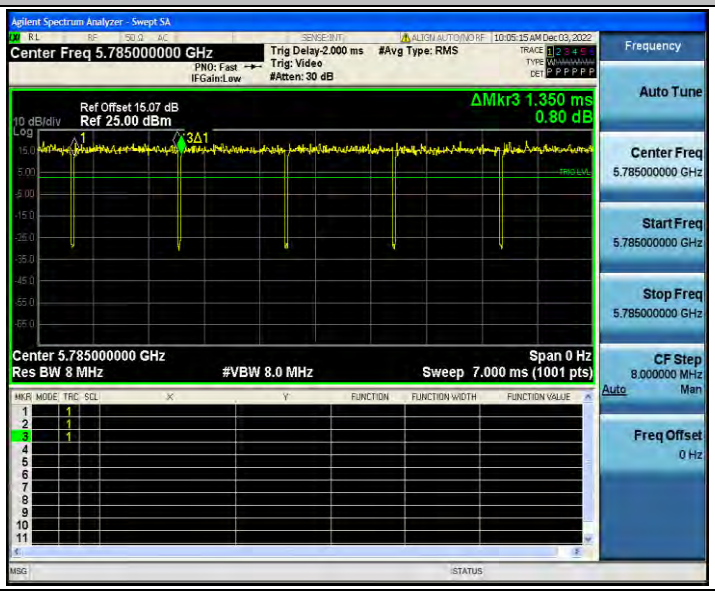
11N20SISO_Ant2_5220


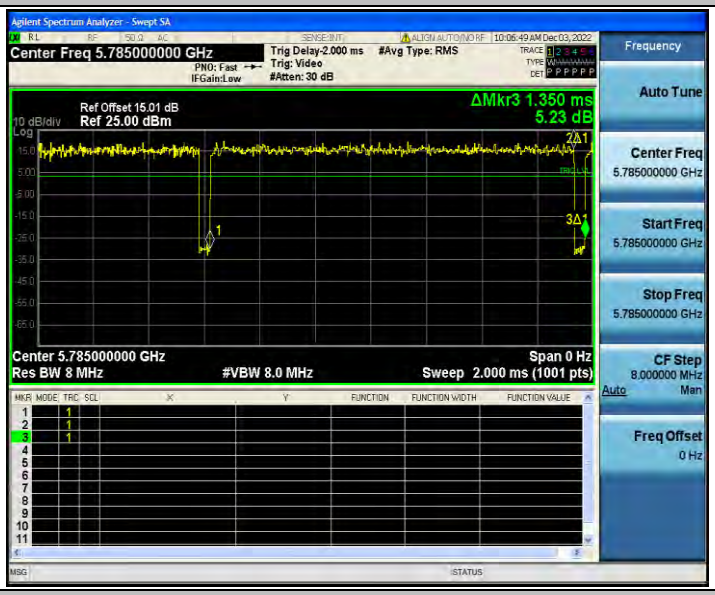
11N20SISO_Ant1_5240


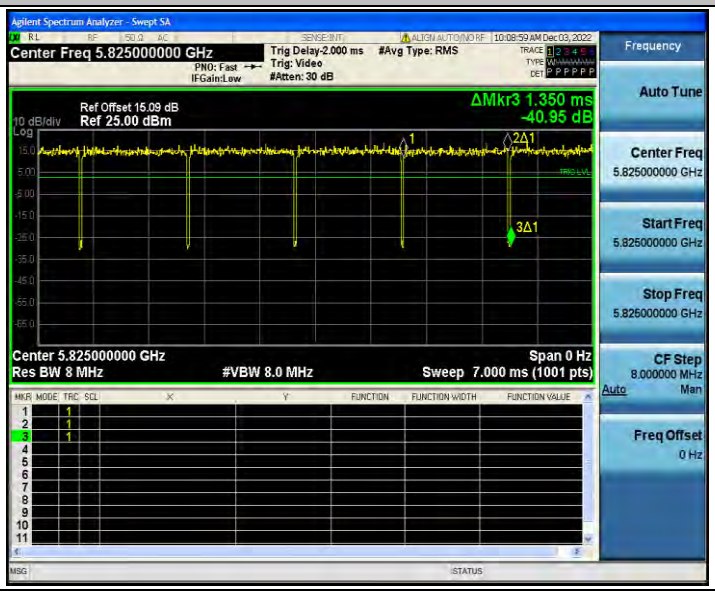
11N20SISO_Ant2_5240


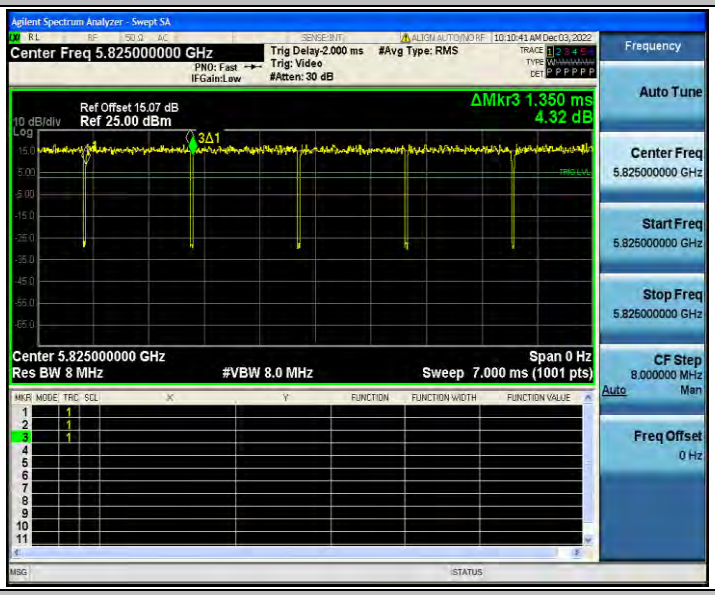
11N20SISO_Ant1_5745


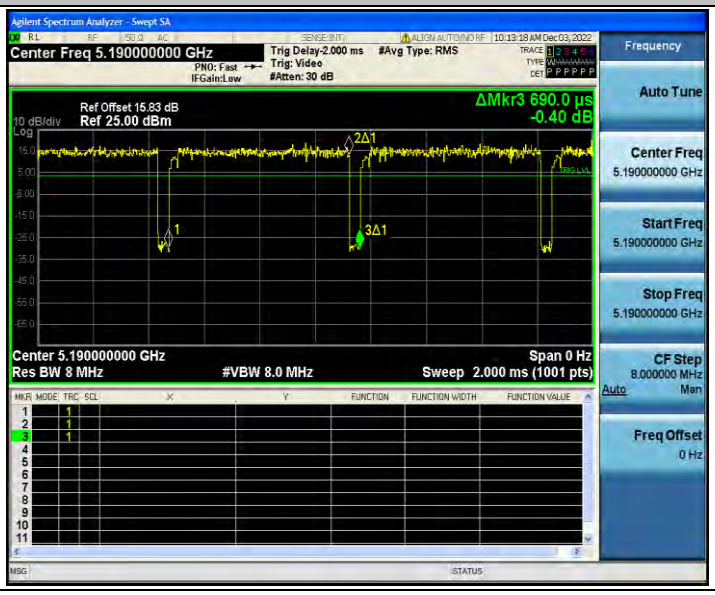
11N20SISO_Ant2_5745


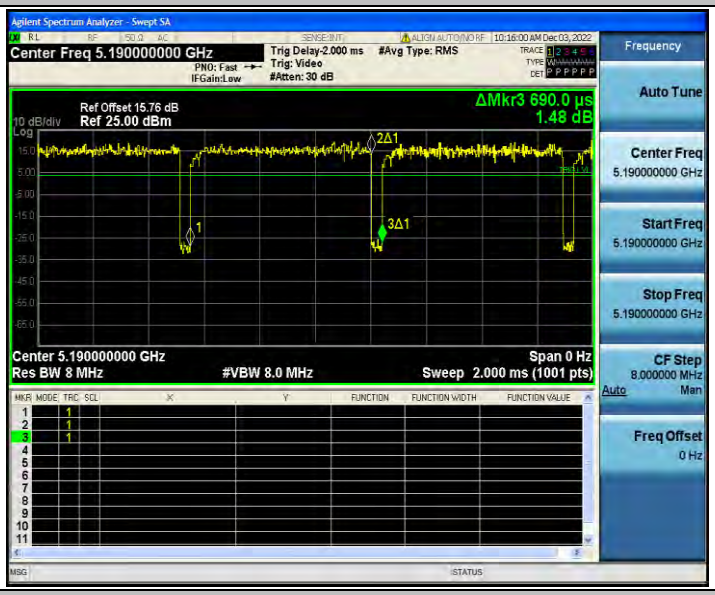
11N20SISO_Ant1_5785


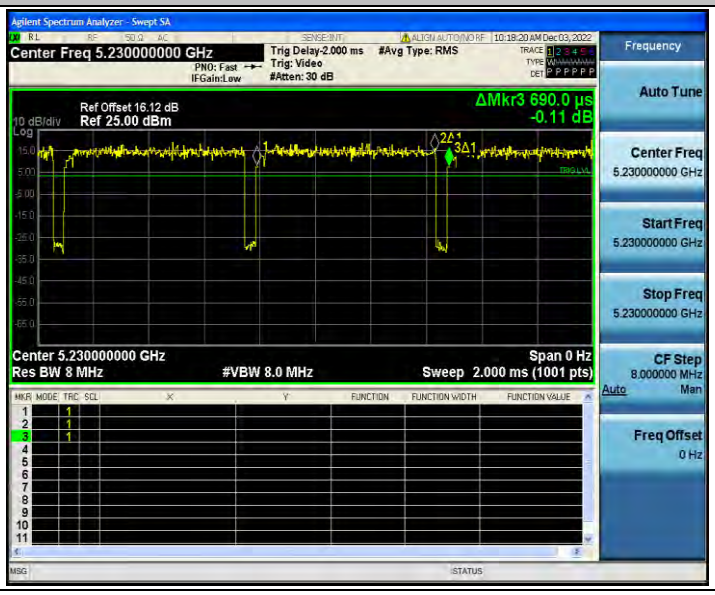
11N20SISO_Ant2_5785


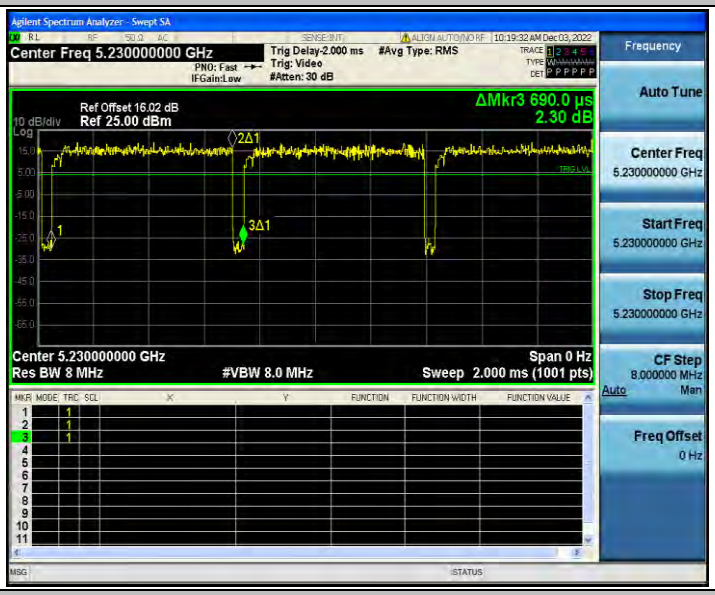
11N20SISO_Ant1_5825


11N20SISO_Ant2_5825


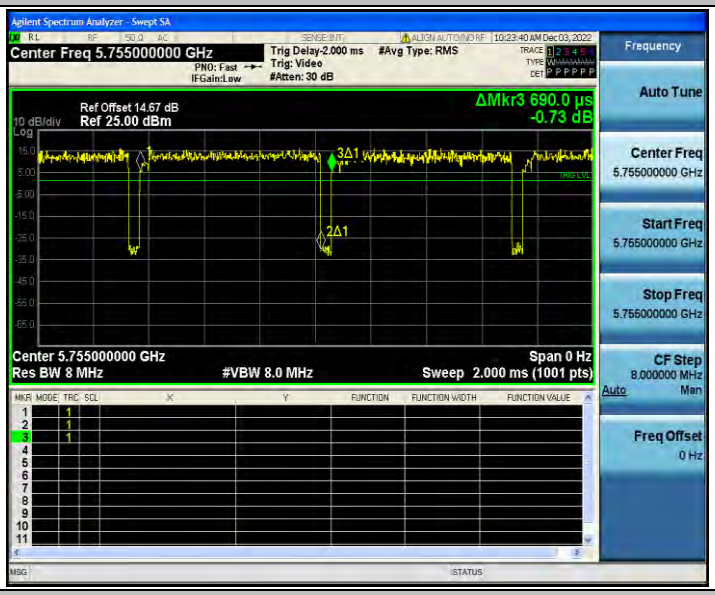
11N40SISO_Ant1_5190


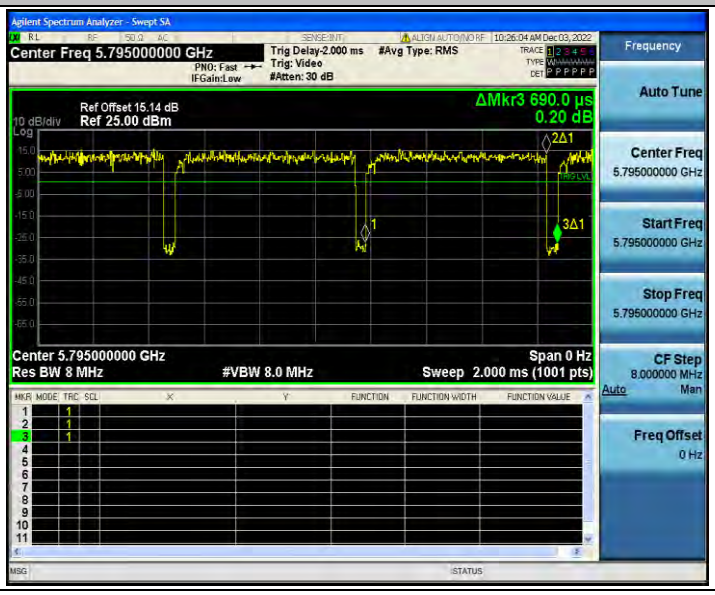
11N40SISO_Ant2_5190


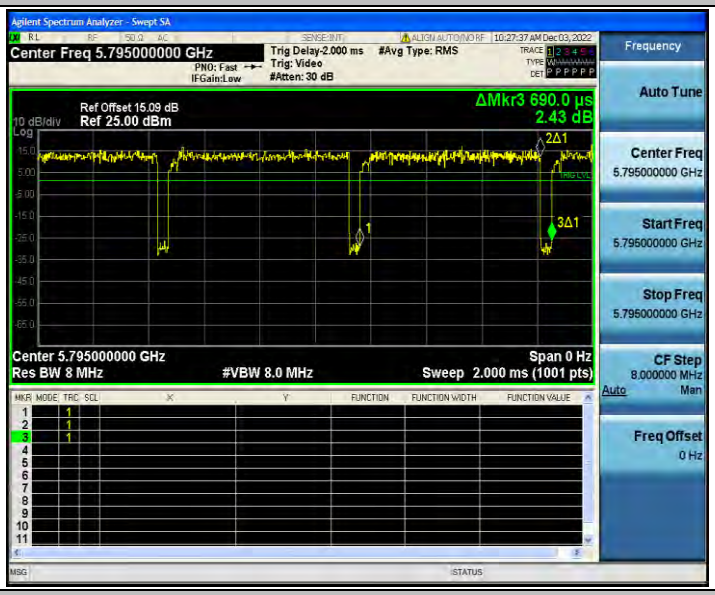
11N40SISO_Ant1_5230


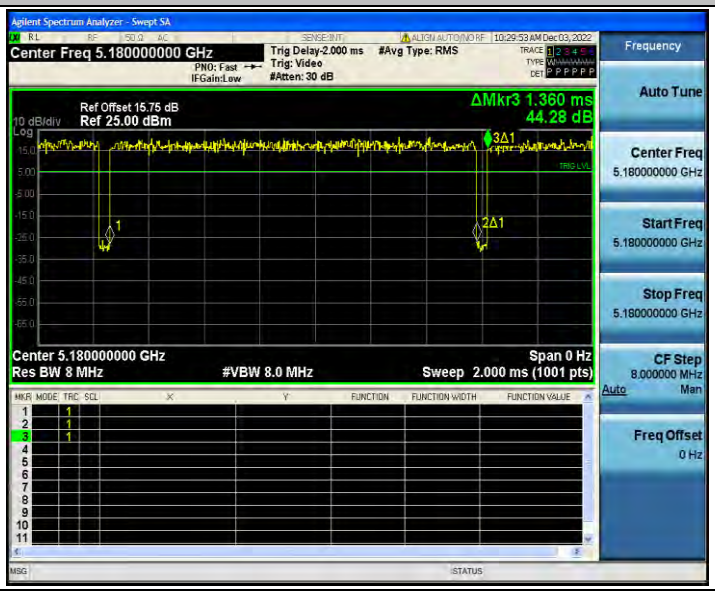
11N40SISO_Ant2_5230


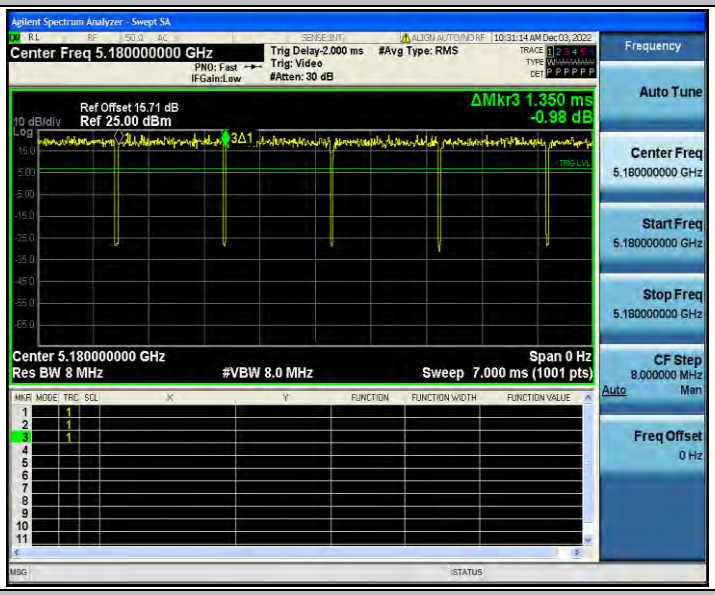
11N40SISO_Ant1_5755

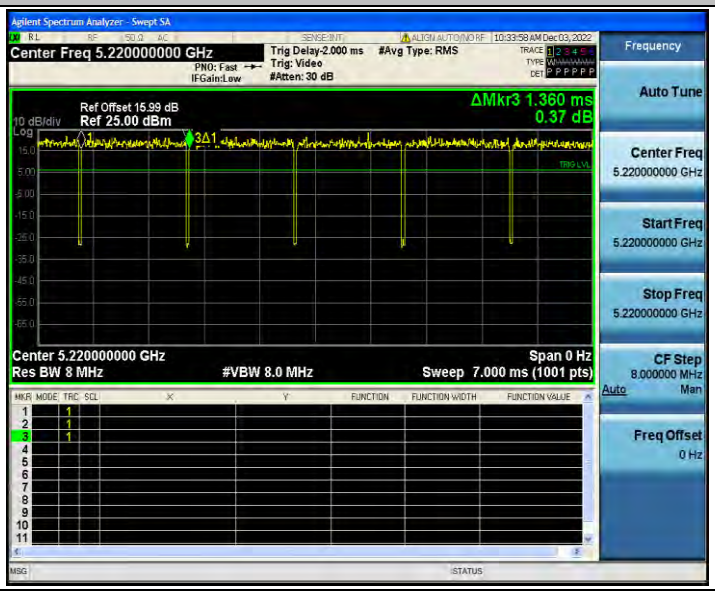
11N40SISO_Ant2_5755


11N40SISO_Ant1_5795


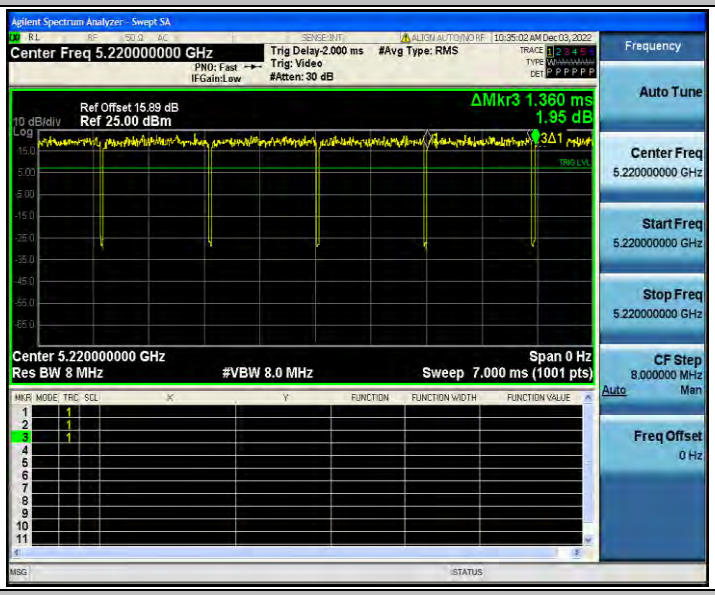
11N40SISO_Ant2_5795


11AC20SISO_Ant1_5180


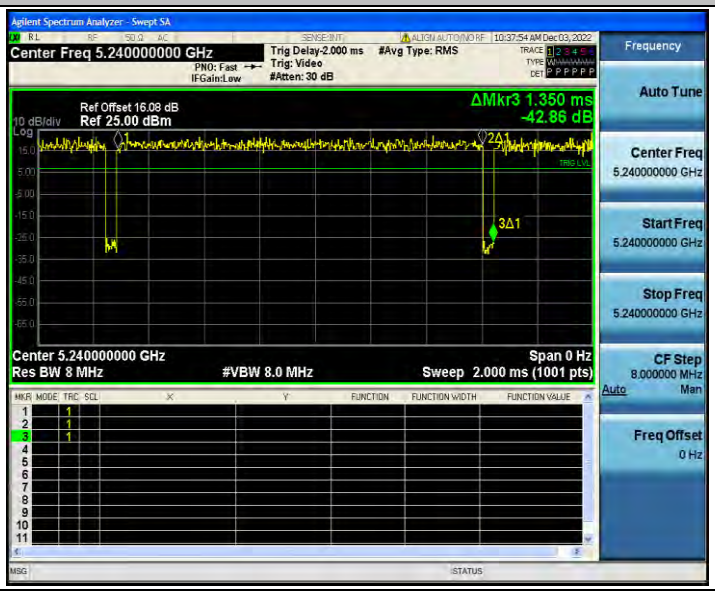
11AC20SISO_Ant2_5180


11AC20SISO_Ant1_5220


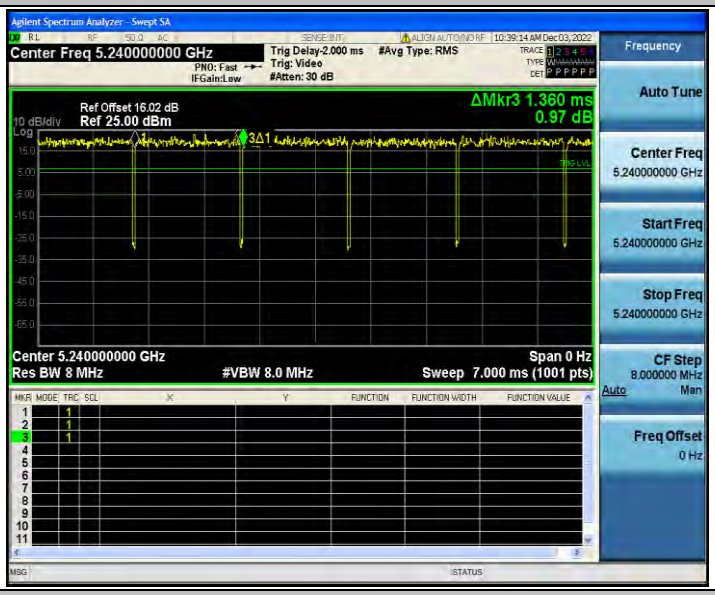
11AC20SISO_Ant2_5220



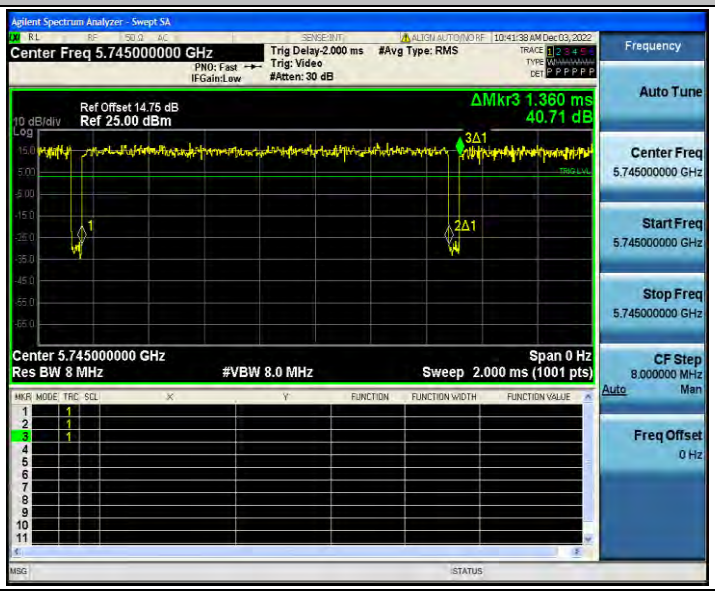
11AC20SISO_Ant1_5240

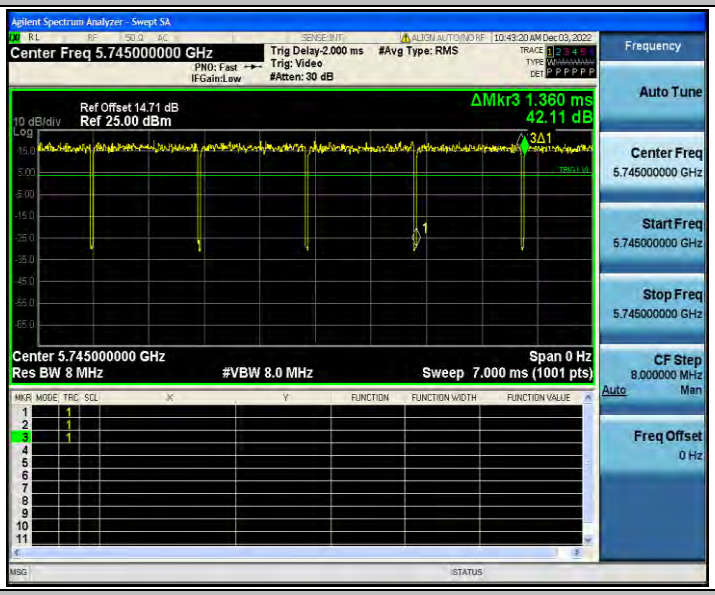


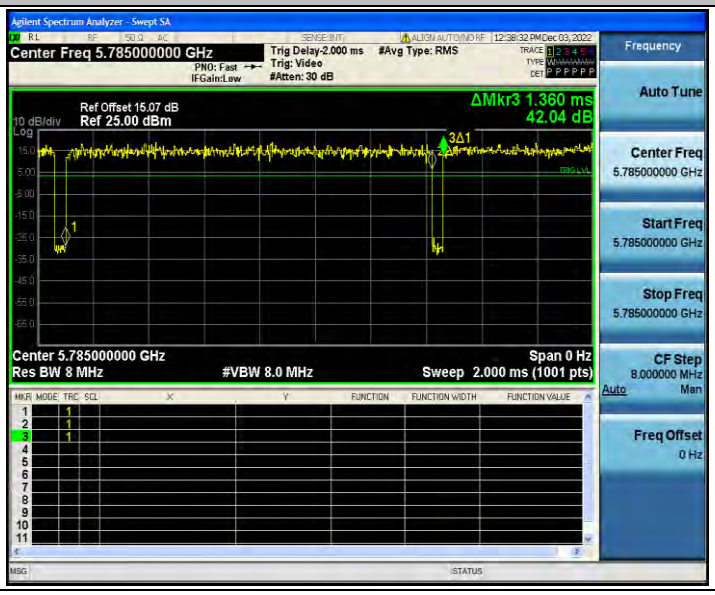
11AC20SISO_Ant2_5240



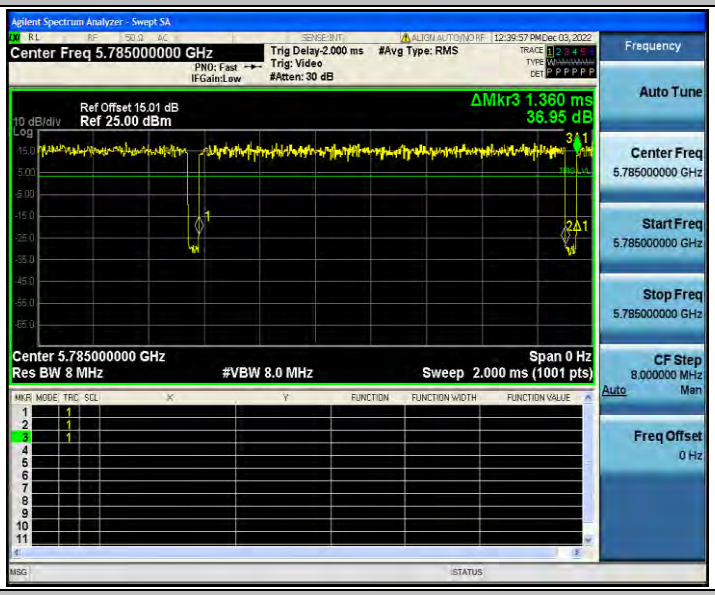
11AC20SISO_Ant1_5745



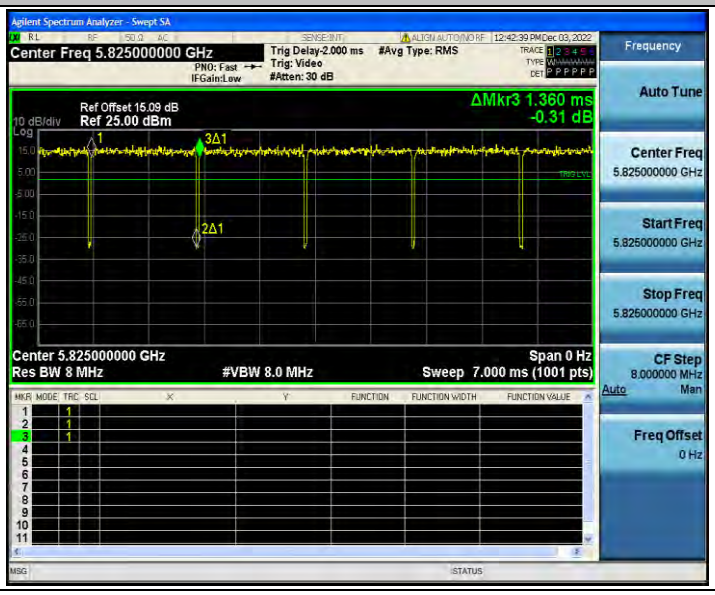
11AC20SISO_Ant2_5745


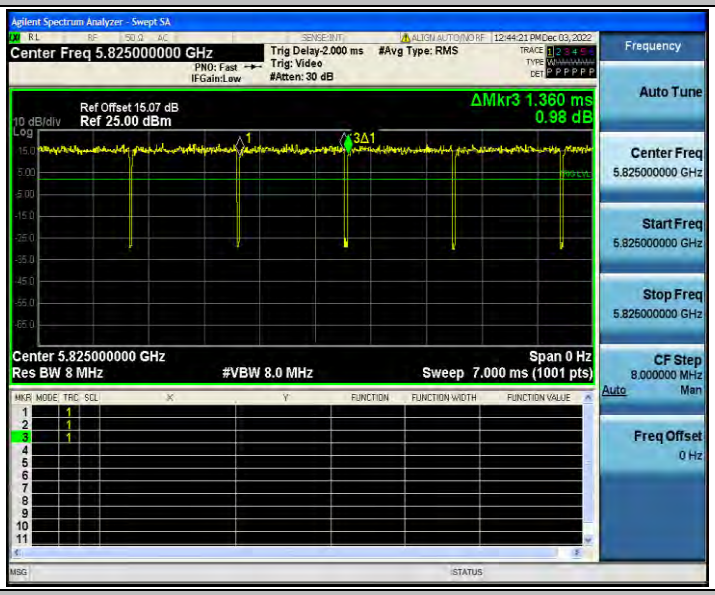
11AC20SISO_Ant1_5785


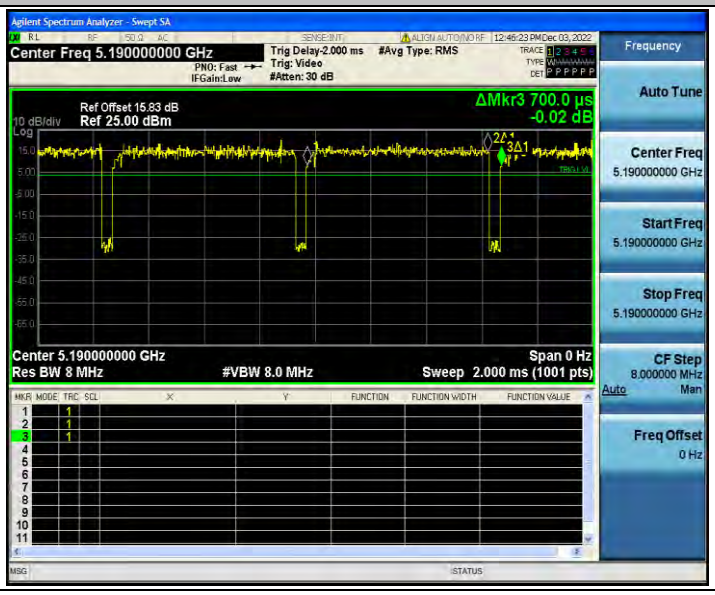
11AC20SISO_Ant2_5785



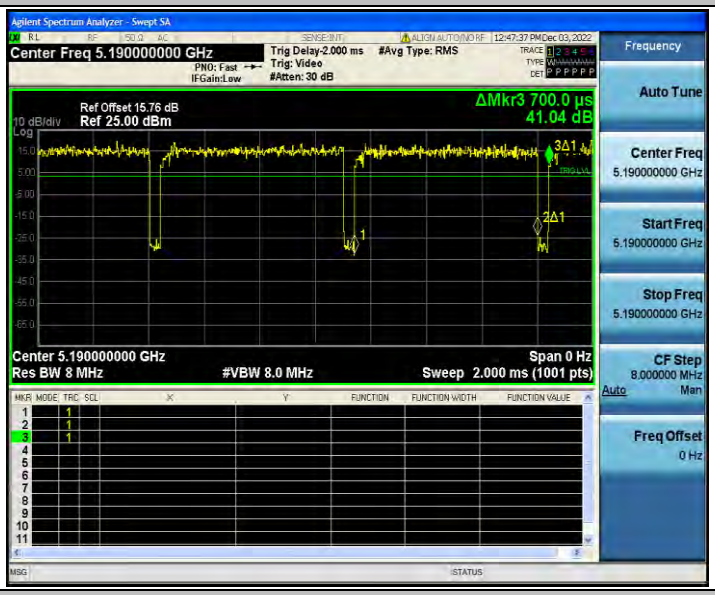
11AC20SISO_Ant1_5825



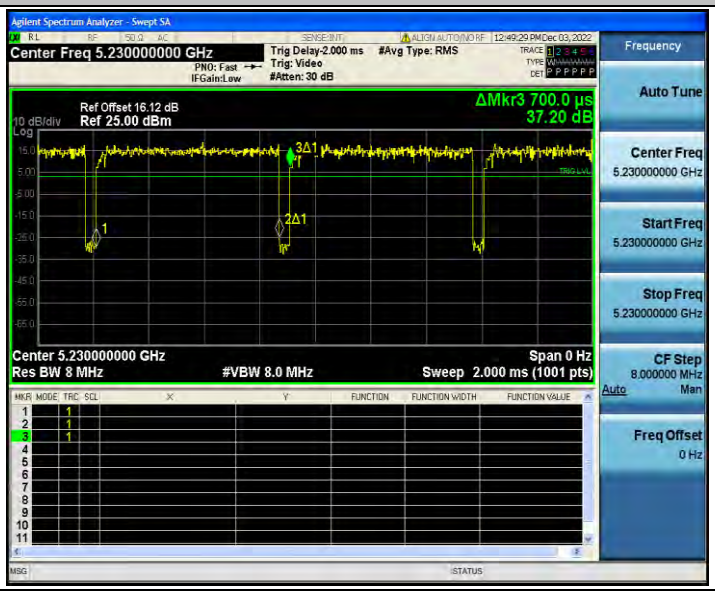
11AC20SISO_Ant2_5825


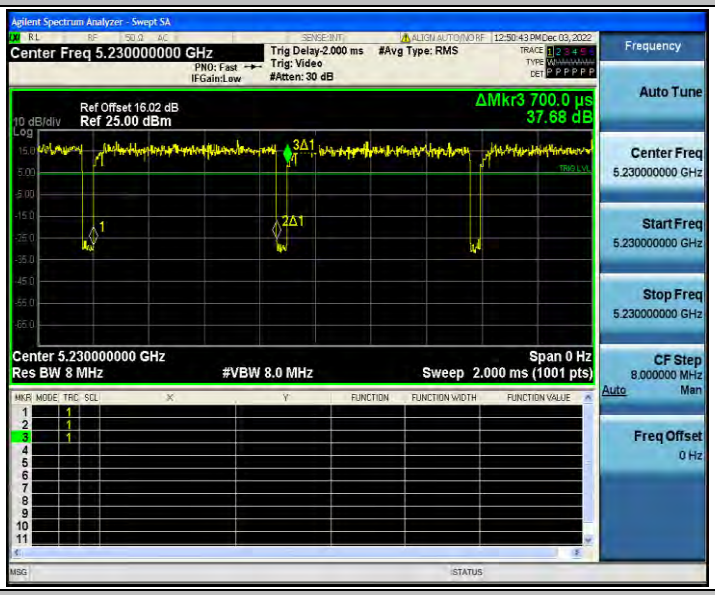
11AC40SISO_Ant1_5190


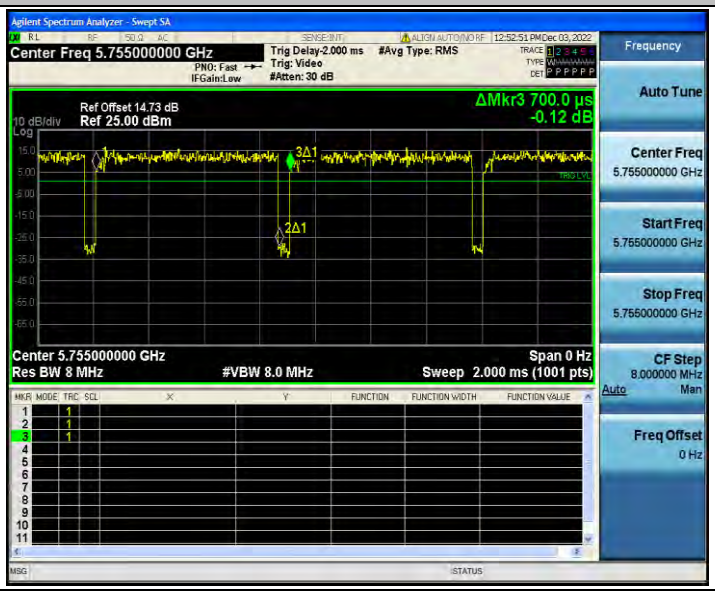
11AC40SISO_Ant2_5190



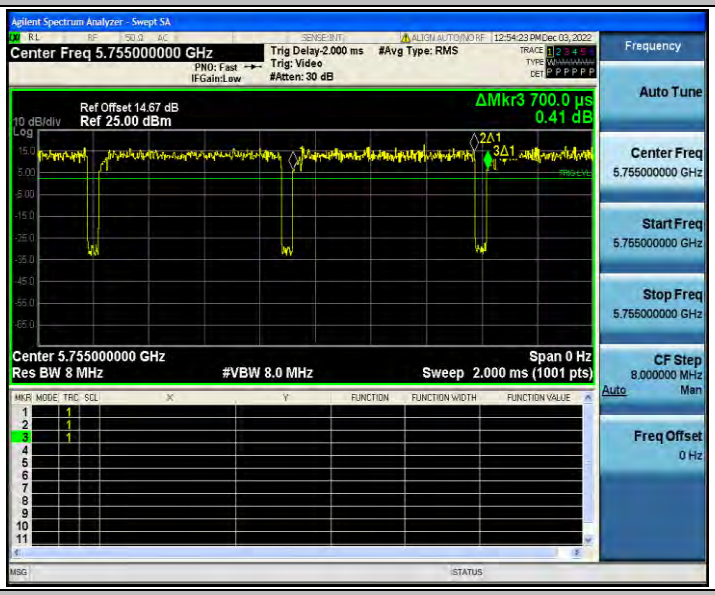
11AC40SISO_Ant1_5230



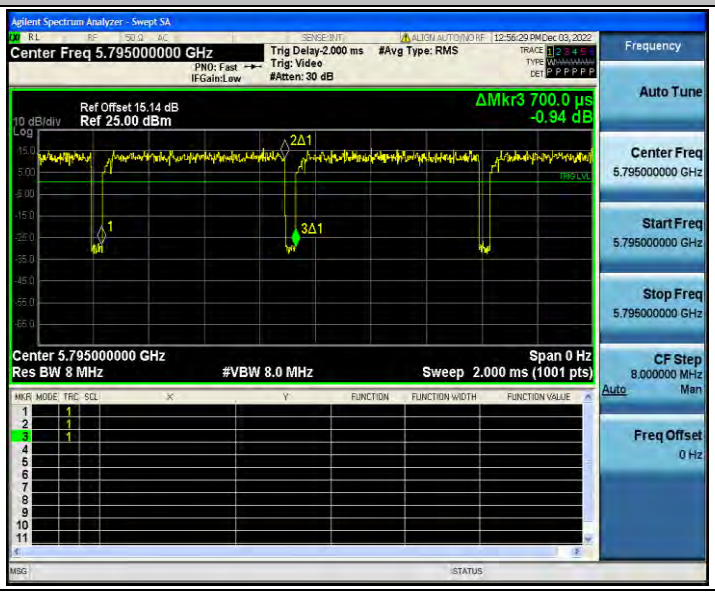
11AC40SISO_Ant2_5230


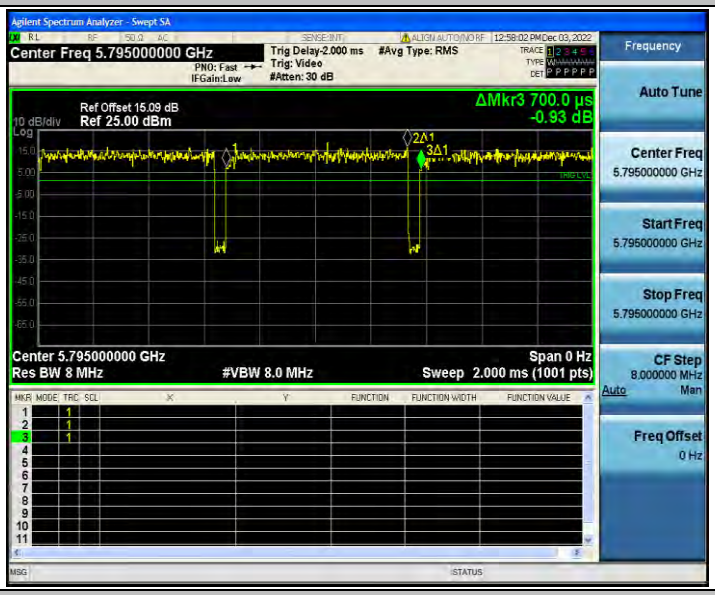
11AC40SISO_Ant1_5755


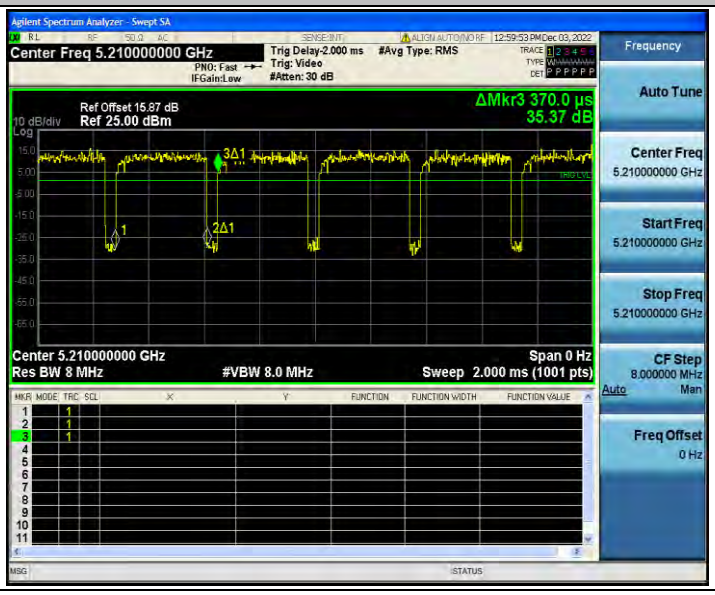
11AC40SISO_Ant2_5755

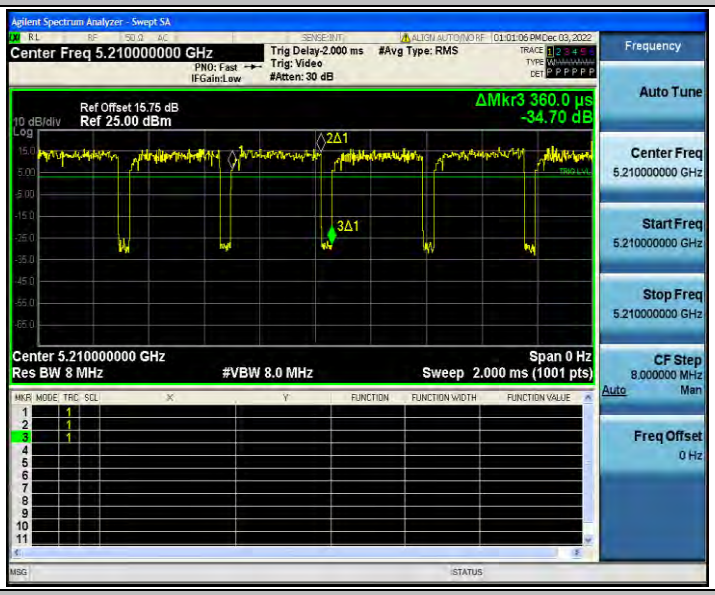


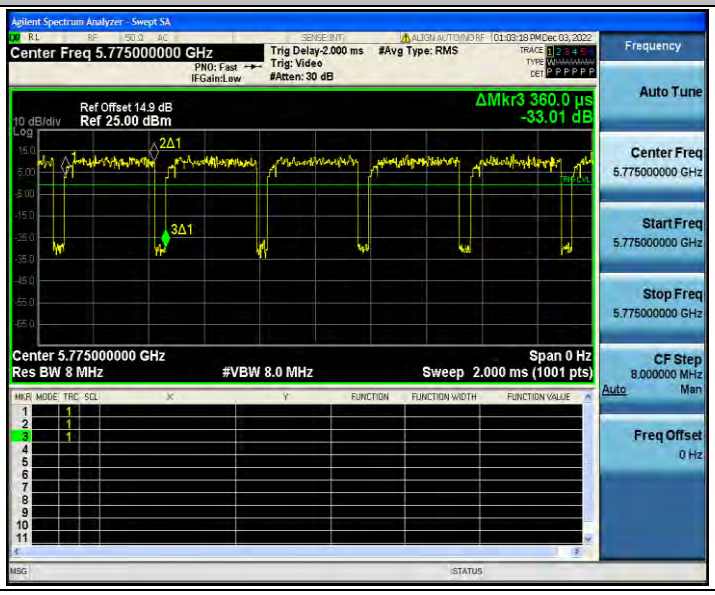
11AC40SISO_Ant1_5795

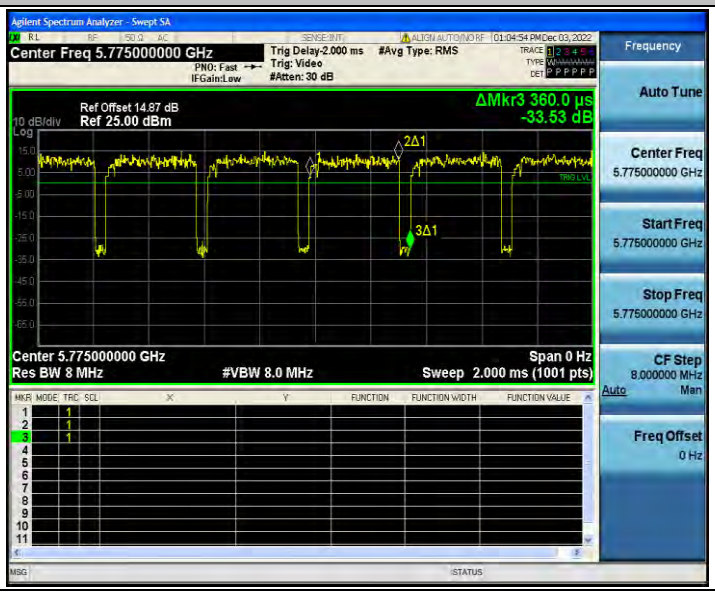


11AC40SISO_Ant2_5795


11AC80SISO_Ant1_5210


11AC80SISO_Ant2_5210


11AC80SISO_Ant1_5775


11AC80SISO_Ant2_5775


2.2 Description of Test conditions

(1) EUT was tested in normal configuration (Please See following Block diagram)

1. Block diagram of EUT configuration(TX Mode)
AC Plug — EUT

(2) E.U.T. test conditions:

15.31(e): For intentional radiators, measurements of the variation of the input power or the adiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominalrated supply voltage. For battery operated equipment, the equipment tests shall be performed using a new battery.

(3) Test frequencies:

According to the 15.31(m) Measurements on intentional radiators or receivers, other than TV broadcast receivers, shall be performed and. If required reported for each band in which the device can be operated with the device operating at the number of frequencies in each band specified in the following table:

Frequency range over which device operates	Number of frequencies	Location in the range of operation
1 MHz or less	1	Middle
1 to 10 MHz	2	1 near top and 1 near bottom
More than 10 MHz	3	1 near top, 1 near middle and 1 near bottom

(4) Frequency range of radiated measurements:

According to the 15.33, The test range will be up to the tenth harmonic of the highest fundamental frequency.

(5) The EUT 's duty cycle is set to 100%

(6) The measurements are performed at all Bit Rate of Transmitter, For all tests the worst-case was selected as the table below, the data of the worst-case is shown in the report.

Test Mode	
	Mode 1: Transmit by 802.11a
	Mode 2: Transmit by 802.11n-HT20
	Mode 3: Transmit by 802.11n-HT40
	Mode 4: Transmit by 802.11ac-VHT20
	Mode 5: Transmit by 802.11ac-VHT40
	Mode 6: Transmit by 802.11ac-VHT80

3 Equipments List for All Test Items

RF Conducted Test

Name of Equipment	Manufacturer	Model	Serial No.	Last calibration	Calibration Due	Calibration period
MXA Signal Analyzer	Agilent	N9020A	MY56070279	Aug. 20, 2022	Aug21,2023	1 year
Coaxial Cable	CDS	79254	46107086	Aug. 20, 2022	Aug21,2023	1 year
Power Meter	Anritsu	ML2495A	0949003	Aug. 20, 2022	Aug21,2023	1 year
Power Sensor	Anritsu	MA2411B	0917017	Aug. 20, 2022	Aug21,2023	1 year
Spectrum Analyzer	Rohde&Schwarz	FSVR40	101003	Aug. 20, 2022	Aug21,2023	1 year
Temperature Chamber	TERCHY	MHG-800N	E21104	Aug. 20, 2022	Aug21,2023	1 year
Temp. / Humidity Meter	Anymetre	JR913	N/A	Aug. 20, 2022	Aug21,2023	1 year
DC Power Supply	DAZHENG	PS-605D	20018978	Aug. 20, 2022	Aug21,2023	1 year
AC POWER SOUCE	UMART	HPA1010	N/A	Aug. 20, 2022	Aug21,2023	1 year
Scope	Tektronix	TDS3032B	B014131	Aug. 20, 2022	Aug21,2023	1 year
DC power	eTOMENS	eTM-1560	--	Aug. 20, 2022	Aug21,2023	1 year

Remark: The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.

Radiated Emissions

Name of Equipment	Manufacturer	Model	Serial No.	Characteristics	Calibration Due
EMI Test Receiver	Rohde&Schwarz	ESCI	101417	9KHz-3GHz	Aug21,2023
Loop Antenna	Schwarzbeck	FMZB 1519	012	9 KHz -30MHz	Aug21,2023
Bilog Antenna	SCHWARZBECK	VULB9160	9160-3355	25MHz-2GHz	Aug21,2023
Preamplifier (low frequency)	SCHWARZBECK	BBV 9475	9745-0013	1MHz-1GHz	Aug21,2023
Cable	Schwarzbeck	PLF-100	549489	9KHz-3GHz	Aug21,2023

Spectrum Analyzer	Agilent	E4407B	MY45109572	9KHz-40GHz	Aug21,2023
Horn Antenna	SCHWARZBECK	9120D	9120D-1246	1GHz-18GHz	Aug21,2023
High NOISE AMPLIFIER	ZHINAN	ZN3380C	15002	10KHz-18GHz	Aug21,2023
Cable	H+S	CBL-26	N/A	1GHz-26.5GHz	Aug21,2023
Spectrum Analyzer	Rohde&Schwarz	FSVR40	101003	10Hz-40GHz	Aug21,2023
Horn Antenna	SCHWARZBECK	BBHA9170	01066	15GHZ-40GHZ	Aug21,2023
Preamplifier	SCHWARZBECK	BBV-9721	81	18GHZ-40GHZ	Aug21,2023
Test S/W	Tonscend	JS32-RE/4.0.0.0			

Conducted Emissions

Name of Equipment	Manufacturer	Model	Serial No.	Characteristics	Calibration Due
EMI Test Receiver	Rohde&Schwarz	ESCI	101417	9KHz-3GHz	Aug21,2023
Artificial Mains Network	Rohde&Schwarz	BS ENV216	102453	9KHz-300MHz	Aug21,2023
Artificial Mains Network	Rohde&Schwarz	L2-16B	000WX31025	9KHz-300MHz	Aug21,2023
Test S/W	Tonscend	JS32-CE/4.0.0.3			

3.1 Measurement Uncertainty

Parameter	**Uncertainty**
RF output power, conducted	±1.0dB
Power Spectral Density, conducted	±2.2dB
Radio Frequency	± 1 x 10^{-6}
Bandwidth	± 1.5 x 10^{-6}

Time	±2%
Duty Cycle	±2%
Temperature	±1°C
Humidity	±5%
DC and low frequency voltages	±3%
Conducted Emissions (150kHz~30MHz)	±3.64dB
Radiated Emission(9KHz~30MHz)	±2.54dB
Radiated Emission(30MHz~1GHz)	±5.03dB
Radiated Emission(1GHz~25GHz)	±4.74dB
Radiated Emission(25GHz-40GHz)	±4.14dB
Remark: The coverage Factor (k=2), and measurement Uncertainty for a level of Confidence of 95%	

3.2 Description of Support Units

Equipment	Model No.	Series No.
Notebook	NbDE-WDH9	WCTPM22527002929

4 Test Result

4.1 Conduction Emissions Measurement

4.1.1 Applied procedures / Limit

(Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Quasi-peak (dBuV)	Average (dBuV)	Standard
0.15 -0.5	66 - 56 *	56 - 46 *	CISPR
0.50 -5.0	56.00	46.00	
5.0 -30.0	60.00	50.00	

0.15 -0.5	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	56.00	46.00	
5.0 -30.0	60.00	50.00	

Note:

(1) The tighter limit applies at the band edges.

(2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

4.1.2 E.U.T. Operation

Operating Environment :

Temperature : 23.9 °C

Humidity : 51.4 % RH

Atmospheric Pressure : 101.21kPa

4.1.3 Test procedure

a. The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.

b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.

c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.

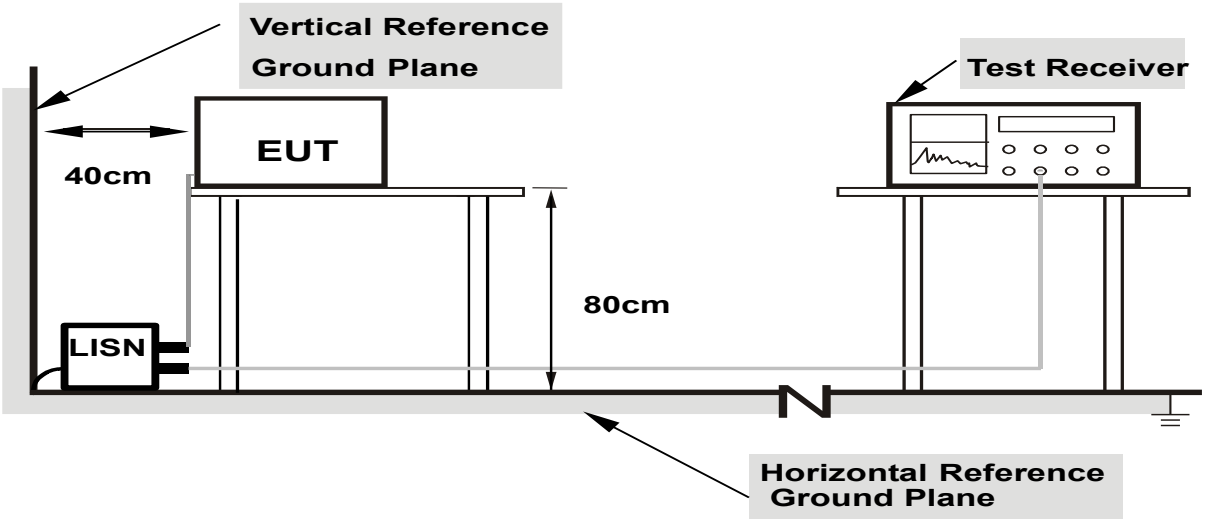
d. LISN at least 80 cm from nearest part of EUT chassis.

e. For the actual test configuration, please refer to the related Item –EUT Test Photos

4.1.4 DEVIATION FROM TEST STANDARD

No deviation

4.1.5 TEST SETUP

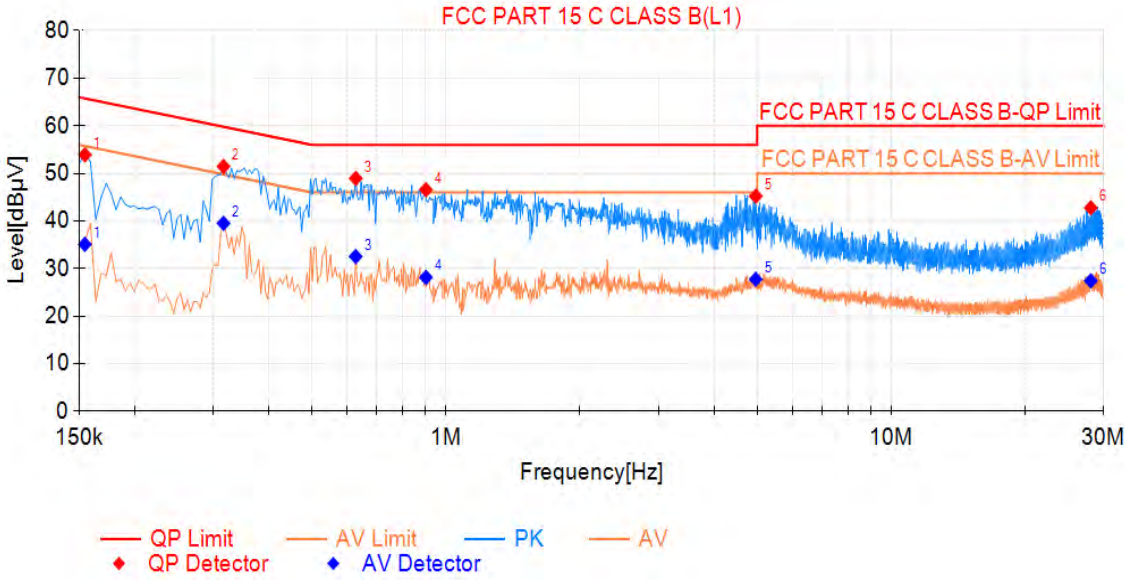


Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

4.1.6 Test results

Line



Remark: Factor = LISN factor + Cable Loss + Pulse limiter factor.

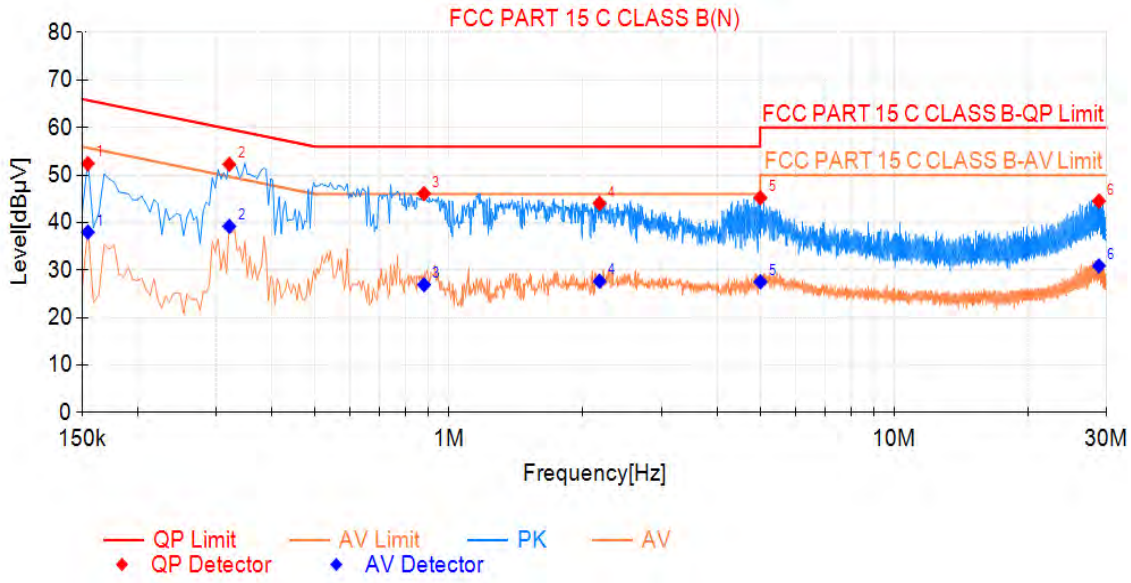
Final Data List

NO.	Freq. [MHz]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.155	53.91	65.75	11.84	35.10	55.75	20.65	PASS
2	0.317	51.46	59.80	8.34	39.52	49.80	10.28	PASS
3	0.627	48.95	56.00	7.05	32.54	46.00	13.46	PASS
4	0.902	46.58	56.00	9.42	28.16	46.00	17.84	PASS
5	4.965	45.22	56.00	10.78	27.76	46.00	18.24	PASS
6	28.086	42.76	60.00	17.24	27.44	50.00	22.56	PASS

Note: Emission Level = Reading + AMN Factor+Cable Loss

Over limited=Emission Level - Limit

Neutre



Remark: Factor = LISN factor + Cable Loss + Pulse limiter factor.

Final Data List

NO.	Freq. [MHz]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.155	52.41	65.75	13.34	37.98	55.75	17.77	PASS
2	0.321	52.27	59.68	7.41	39.21	49.68	10.47	PASS
3	0.879	46.10	56.00	9.90	26.92	46.00	19.08	PASS
4	2.180	44.04	56.00	11.96	27.67	46.00	18.33	PASS
5	5.006	45.23	60.00	14.77	27.53	50.00	22.47	PASS
6	28.833	44.53	60.00	15.47	30.88	50.00	19.12	PASS

Note: Emission Level = Reading + AMN Factor+Cable Loss

Over limited=Emission Level - Limit

4.2 Radiated Emissions Measurement

4.2.1 Applied procedures / Limit

Test Requirement: FCC Part15 section 15.407

Limits:

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 20 dB below the highest level of the desired power:

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz at 3M)

FREQUENCY (MHz)	PEAK (dBuV/m)	AVERAGE (dBuV/m)
Above 1000	74	54

Notes:

(1) The lower limit shall apply at the transition frequencies.

(2) Emission level (dBuV/m) = 20 log Emission level (uV/m).

(3) For frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20 dB under any condition of modulation.

Measurement Distance: 3m (Semi-Anechoic Chamber)

Frequency range 9 kHz – 40 GHz for transmitting mode.

Test instrumentation resolution bandwidth
9 kHz (9 kHz - 30 MHz), 120 kHz (30 MHz - 1000 MHz), 1 MHz (1000 MHz – 40 GHz)

Detector: For PK and QP value:

RBW = 1 MHz for f ≥ 1 GHz, 100 kHz for f < 1 GHz

VBW ≥ RBW

Sweep = auto

Detector function = peak

Trace = max hold

For AV value:

RBW = 1 MHz for f ≥ 1 GHz,

VBW =10 Hz

Sweep = auto

Detector function = peak

Trace = max hold

Test Procedure:

1)9 kHz to 30 MHz emissions:

For testing performed with the loop antenna, testing was performed in accordance to ANSI C63.10. The centre of the loop was positioned 1 m above the ground and positioned with its plane vertical at the specified distance from the EUT, During testing the loop was rotated about its vertical axis for maximum response at each azimuth and also investigated with the loop positioned in the horizontal plane.

2)30 MHz to 1 GHz emissions:

For testing performed with the bi-log type antenna, testing was performed in accordance to ANSI C63.10. The measurement is performed with the EUT rotated 360º, the antenna height scanned between 1m and 4m, and the antenna rotated to repeat the measurement for both the horizontal and vertical antenna polarizations.

3)1 GHz to 40 GHz emissions:

Test site with RF absorbing material covering the ground plane that met the site validation criterion called out in CISPR 16-1-4:2007 was used to perform radiated emission test above 1 GHz.

For testing performed with the horn antenna, testing was performed in accordance to ANSI C63.10. The measurement is performed with the EUT rotated 360º, the antenna height scan between 1m and 4m, and the antenna rotated to repeat the measurement for both the horizontal and vertical antenna polarizations.

For the radiated emission test above 1GHz:

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

And according 15.35(a)

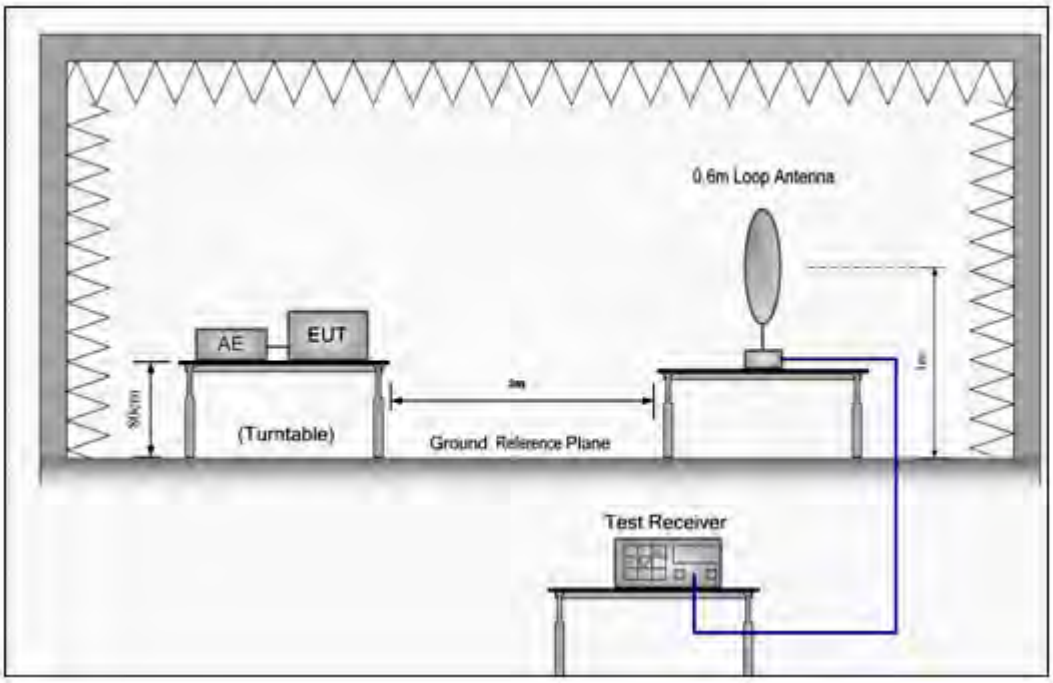
15.35(a) On any frequency or frequencies below or equal to 1000 MHz, the limits shown are based on measuring equipment employing a CISPR quasi-peak detector function and related measurement bandwidths, unless otherwise specified. The specifications for the measuring instrument using the CISPR quasi-peak detector can be found in Publication 16 of the International Special Committee on Radio Interference (CISPR) of the International Electro technical Commission. As an alternative to CISPR quasi-peak measurements, the responsible party, at its option, may demonstrate compliance with the emission limits using measuring equipment employing a peak detector function, properly adjusted for such factors as pulse desensitization, as long as the same bandwidths as indicated for CISPR quasi-peak measurements are employed.

Note: For pulse modulated devices with a pulse-repetition frequency of 20 Hz or less and for which CISPR quasi-peak measurements are specified, compliance with the regulations shall be demonstrated using measuring equipment employing a peak detector function, properly adjusted for such factors as pulse desensitization, using the same measurement bandwidths that are indicated for CISPR quasi-peak measurements.

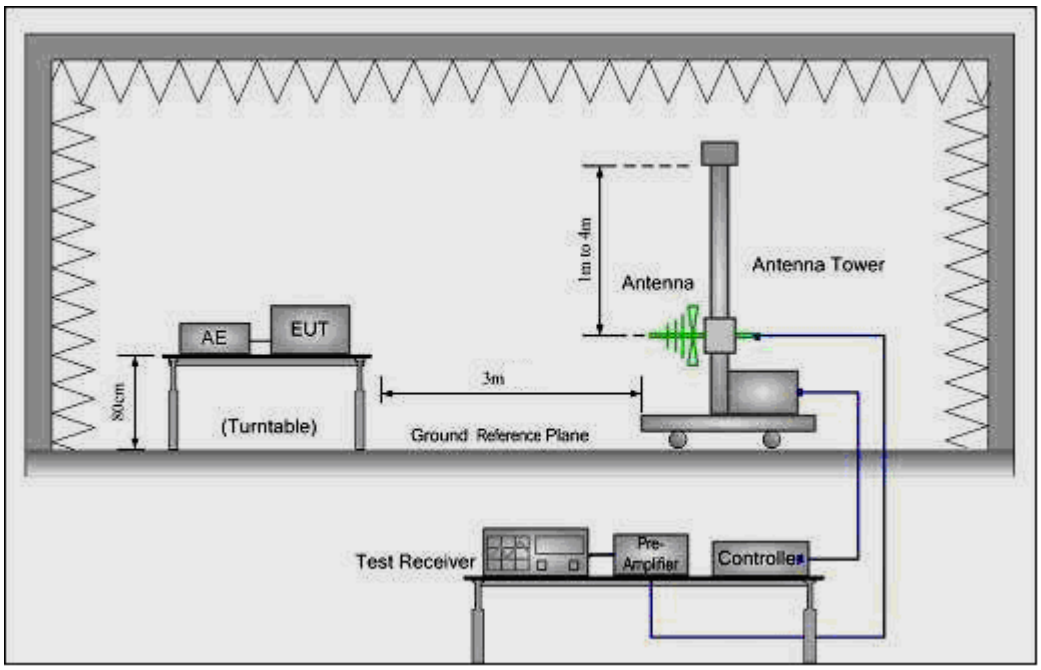
According to 15.35 (b) Unless otherwise specified, on any frequency or frequencies above 1000 MHz, the radiated emission limits are based on the use of measurement instrumentation employing an average detector function. Unless otherwise specified, measurements above 1000 MHz shall be performed using a minimum resolution bandwidth of 1 MHz. When average radiated emission measurements are specified in this part, including average emission measurements below 1000 MHz, there also is a limit on the peak level of the radio frequency emissions. Unless otherwise specified, e.g., see §§ 15.250, 15.252, 15.255, and 15.509-15.519 of this part, the limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device, e.g., the total peak power level. Note that the use of a pulse desensitization correction factor may be needed to determine the total peak emission level. The instruction manual or application note for the measurement instrument should be consulted for determining pulse desensitization factors, as necessary.

Test Configuration:

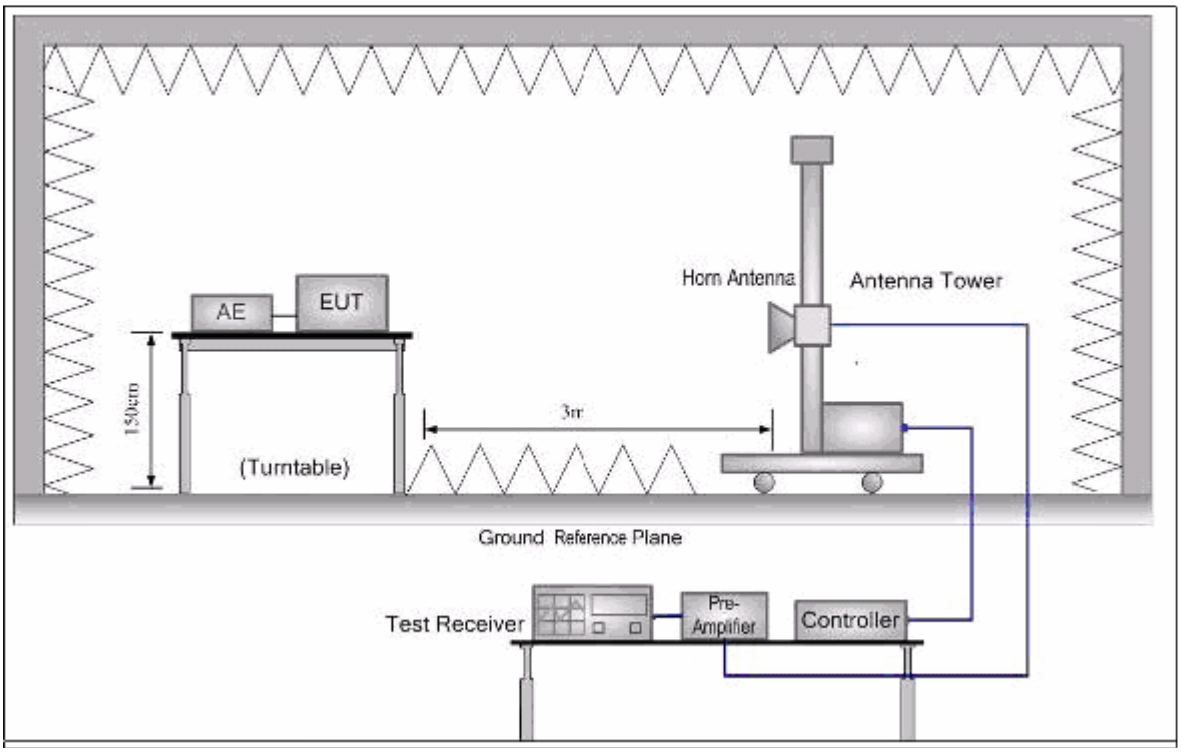
1) 9 kHz to 30 MHz emissions:



2) 30 MHz to 1 GHz emissions:



3) 1 GHz to 40 GHz emissions:



The field strength is calculated by adding the Antenna Factor, Cable Loss & Per-amplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna, Factor + Cable Loss – Preamplifier Factor

4.2.2 E.U.T. Operation

Operating Environment **:**

Temperature	:	23.9 °C
Humidity	:	51.4 % RH
Atmospheric Pressure	:	101.21kPa

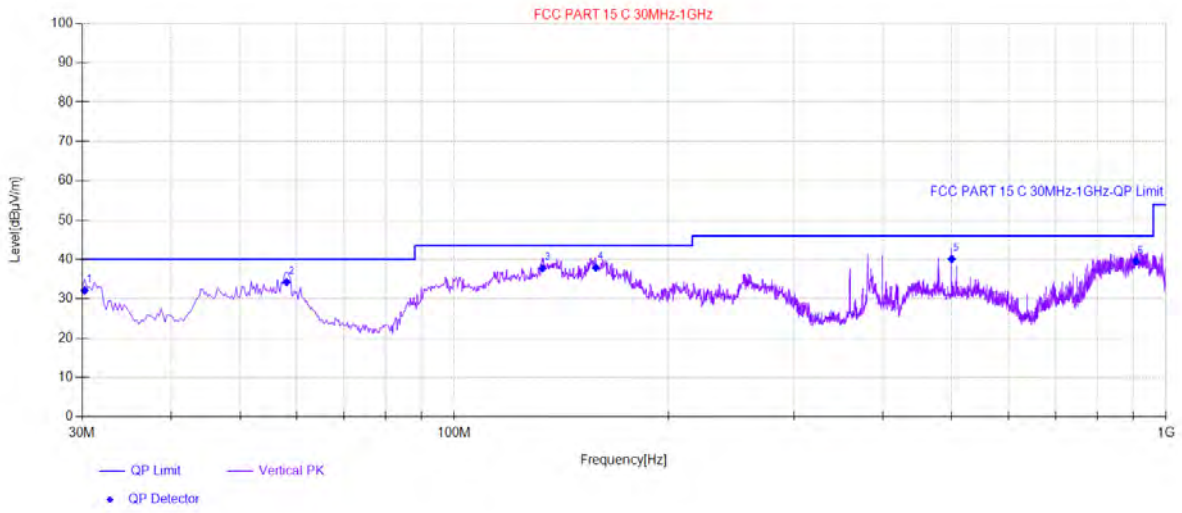
4.2.3 Radiated Emissions Test Data

9 kHz~30 MHz Field Strength of Unwanted Emissions. Quasi-Peak Measurement

The measurements with active loop antenna were greater than 20dB below the limit, so the test data were not recorded in the test report.

30 MHz~1 GHz Field Strength of Unwanted Emissions. Quasi-Peak Measurement

Vertical

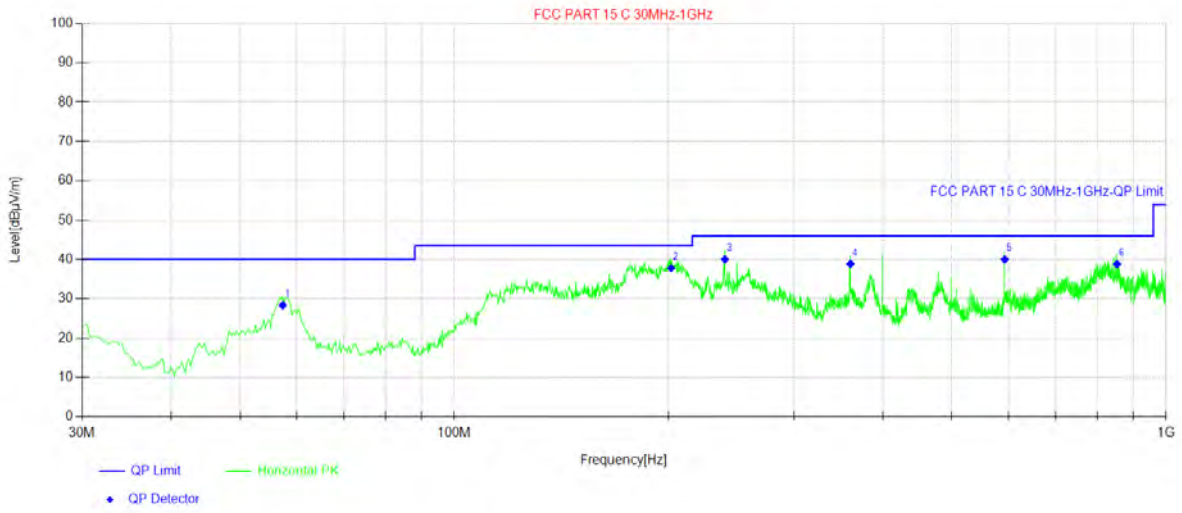


Final Data List[QP]

NO.	Freq. [MHz]	QP Reading [dBμV/m]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Polarity
1	30.24	50.45	-18.33	32.12	40.00	7.88	Vertical
2	58.13	52.16	-17.91	34.25	40.00	5.75	Vertical
3	133.06	54.74	-17.01	37.73	43.50	5.77	Vertical
4	158.04	53.84	-15.94	37.90	43.50	5.60	Vertical
5	499.97	50.7	-10.60	40.10	46.00	5.90	Vertical
6	907.37	42.41	-2.88	39.53	46.00	6.47	Vertical

Measurement Level = Reading Level + Factor, Factor=Ant Factor + Cable Loss– Pre-amplifier.
Over limit=Emission Level - limit

Horizontal



Final Data List[QP]

NO.	Freq. [MHz]	QP Reading [dBμV/m]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Polarity
1	57.40	46.3	-17.92	28.38	40.00	11.62	Horizontal
2	201.69	56.59	-18.80	37.79	43.50	5.71	Horizontal
3	240.01	57.63	-17.62	40.01	46.00	5.99	Horizontal
4	360.29	52.99	-14.08	38.91	46.00	7.09	Horizontal
5	593.57	48.5	-8.50	40.00	46.00	6.00	Horizontal
6	853.53	42.42	-3.56	38.86	46.00	7.14	Horizontal

Note: Measurement Level = Reading Level + Factor, Factor=Ant Factor + Cable Loss– Pre-amplifier.

Over limit=Emission Level - limit

1~40 GHz Field Strength of Fundamental & Field Strength of Unwanted Emissions.
Peak & Average Measurement.
Note:all model are tested and just worst case is record.

TX Mode:	Ant1	Measurement Distance:	3 m
Test channel:	802.11a-5180MHz	Frequency Range:	1GHz to 40GHz
RBW/VBW:	Spurious emission: 1MHz/3MHz for Peak, 1MHz/10Hz for Average.		
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-40GHz, there is not show in the report.		

Vertical						
Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
10360.000	39.31	12.56	51.87	74.00	-22.13	PEAK
15540.000	37.85	16.45	54.30	74.00	-19.70	PEAK
Horizontal						
Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
10360.000	38.52	12.56	51.08	74.00	-22.92	PEAK
15540.000	36.49	16.45	52.94	74.00	-21.06	PEAK

The field strength is calculated by adding the Antenna Factor. Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor –Preamplifier Factor.

Average measurement was not performed if peak level lower than average limit.

No any other emissions level which are attenuated less than 20dB below the limit.

According to 15.31(o), The amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this Part.

Hence there no other emissions have been reported.

TX Mode:	Ant1	Measurement Distance:	3 m
Test channel:	802.11a-5220 MHz	Frequency Range:	1GHz to 40GHz
RBW/VBW:	Spurious emission: 1MHz/3MHz for Peak, 1MHz/10Hz for Average.		
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-40GHz, there is not show in the report.		

Vertical						
Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
10440.000	36.67	12.64	49.31	74.00	-24.69	PEAK
15660.000	35.54	16.53	52.07	74.00	-21.93	PEAK
Horizontal						
Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
10440.000	37.12	12.64	49.76	74.00	-24.24	PEAK
15660.000	35.36	16.53	51.89	74.00	-22.11	PEAK

The field strength is calculated by adding the Antenna Factor. Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor –Preamplifier Factor.

Average measurement was not performed if peak level lower than average limit.

No any other emissions level which are attenuated less than 20dB below the limit.

According to 15.31(o), The amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this Part.

Hence there no other emissions have been reported.

TX Mode:	Ant1	Measurement Distance:	3 m
Test channel:	802.11a-5240 MHz	Frequency Range:	1GHz to 40GHz
RBW/VBW:	Spurious emission: 1MHz/3MHz for Peak, 1MHz/10Hz for Average.		
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-40GHz, there is not show in the report.		

Vertical						
Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
10480.000	36.48	12.68	49.16	74.00	-24.84	PEAK
15720.000	34.75	16.54	51.29	74.00	-22.71	PEAK
Horizontal						
Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
10480.000	35.12	12.68	47.80	74.00	-26.20	PEAK
15720.000	34.37	16.54	50.91	74.00	-23.09	PEAK

The field strength is calculated by adding the Antenna Factor. Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor –Preamplifier Factor.

Average measurement was not performed if peak level lower than average limit.

No any other emissions level which are attenuated less than 20dB below the limit.

According to 15.31(o), The amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this Part.

Hence there no other emissions have been reported.

TX Mode:	Ant1	Measurement Distance:	3 m
Test channel:	802.11a-5745 MHz	Frequency Range:	1GHz to 40GHz
RBW/VBW:	Spurious emission: 1MHz/3MHz for Peak, 1MHz/10Hz for Average.		
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-40GHz, there is not show in the report.		

Vertical						
Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
11490.000	33.84	16.82	50.66	74.00	-23.34	PEAK
17235.000	35.72	22.93	58.65	74.00	-15.35	PEAK
Horizontal						
Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
11490.000	34.21	16.82	51.03	74.00	-22.97	PEAK
17235.000	35.58	22.93	58.51	74.00	-15.49	PEAK

The field strength is calculated by adding the Antenna Factor. Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor –Preamplifier Factor.

Average measurement was not performed if peak level lower than average limit.

No any other emissions level which are attenuated less than 20dB below the limit.

According to 15.31(o), The amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this Part.

Hence there no other emissions have been reported.

TX Mode:	Ant1	Measurement Distance:	3 m
Test channel:	802.11a-5785 MHz	Frequency Range:	1GHz to 40GHz
RBW/VBW:	Spurious emission: 1MHz/3MHz for Peak, 1MHz/10Hz for Average.		
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-40GHz, there is not show in the report.		

Vertical						
Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
11570.000	34.10	16.71	50.81	74.00	-23.19	PEAK
17355.000	36.79	24.37	61.16	74.00	-12.84	PEAK
Horizontal						
Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
11570.000	33.25	16.71	49.96	74.00	-24.04	PEAK
17355.000	35.58	24.37	59.95	74.00	-14.05	PEAK

The field strength is calculated by adding the Antenna Factor. Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor –Preamplifier Factor.

Average measurement was not performed if peak level lower than average limit.

No any other emissions level which are attenuated less than 20dB below the limit.

According to 15.31(o), The amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this Part.

Hence there no other emissions have been reported.

TX Mode:	Ant1	Measurement Distance:	3 m
Test channel:	802.11a-5825 MHz	Frequency Range:	1GHz to 40GHz
RBW/VBW:	Spurious emission: 1MHz/3MHz for Peak, 1MHz/10Hz for Average.		
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-40GHz, there is not show in the report.		

Vertical						
Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
11650.000	34.12	16.61	50.73	74.00	-23.27	PEAK
17475.000	29.38	25.01	54.39	74.00	-19.61	PEAK
Horizontal						
Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
11650.000	35.72	16.61	52.33	74.00	-21.67	PEAK
17475.000	28.82	25.01	53.83	74.00	-20.17	PEAK

The field strength is calculated by adding the Antenna Factor. Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor –Preamplifier Factor.

Average measurement was not performed if peak level lower than average limit.

No any other emissions level which are attenuated less than 20dB below the limit.

According to 15.31(o), The amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this Part.

Hence there no other emissions have been reported.

TX Mode:	Ant1	Measurement Distance:	3 m
Test channel:	802.11n HT20-5180MHz	Frequency Range:	1GHz to 40GHz
RBW/VBW:	Spurious emission: 1MHz/3MHz for Peak, 1MHz/10Hz for Average.		
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-40GHz, there is not show in the report.		

Vertical						
Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
10360.000	33.24	12.56	45.80	74.00	-28.20	PEAK
15540.000	35.37	16.45	51.82	74.00	-22.18	PEAK
Horizontal						
Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
10360.000	35.73	12.56	48.29	74.00	-25.71	PEAK
15540.000	36.15	16.45	52.60	74.00	-21.40	PEAK

The field strength is calculated by adding the Antenna Factor. Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor –Preamplifier Factor.

Average measurement was not performed if peak level lower than average limit.

No any other emissions level which are attenuated less than 20dB below the limit.

According to 15.31(o), The amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this Part.

Hence there no other emissions have been reported.

TX Mode:	Ant1	Measurement Distance:	3 m
Test channel:	802.11n HT20-5220MHz	Frequency Range:	1GHz to 40GHz
RBW/VBW:	Spurious emission: 1MHz/3MHz for Peak, 1MHz/10Hz for Average.		
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-40GHz, there is not show in the report.		

Vertical						
Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
10440.000	33.98	12.64	46.62	74.00	-27.38	PEAK
15660.000	29.44	16.53	45.97	74.00	-28.03	PEAK
Horizontal						
Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
10440.000	32.12	12.64	44.76	74.00	-29.24	PEAK
15660.000	28.91	16.53	45.44	74.00	-28.56	PEAK

The field strength is calculated by adding the Antenna Factor. Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor –Preamplifier Factor.

Average measurement was not performed if peak level lower than average limit.

No any other emissions level which are attenuated less than 20dB below the limit.

According to 15.31(o), The amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this Part.

Hence there no other emissions have been reported.

TX Mode:	Ant1	Measurement Distance:	3 m
Test channel:	802.11n HT20-5240MHz	Frequency Range:	1GHz to 40GHz
RBW/VBW:	Spurious emission: 1MHz/3MHz for Peak, 1MHz/10Hz for Average.		
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-40GHz, there is not show in the report.		

Vertical						
Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
10480.000	33.15	12.68	45.83	74.00	-28.17	PEAK
15720.000	29.36	16.54	45.90	74.00	-28.10	PEAK
Horizontal						
Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
10480.000	34.50	12.68	47.18	74.00	-26.82	PEAK
15720.000	28.83	16.54	45.37	74.00	-28.63	PEAK

The field strength is calculated by adding the Antenna Factor. Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor –Preamplifier Factor.

Average measurement was not performed if peak level lower than average limit.

No any other emissions level which are attenuated less than 20dB below the limit.

According to 15.31(o), The amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this Part.

Hence there no other emissions have been reported.

TX Mode:	Ant1	Measurement Distance:	3 m
Test channel:	802.11n HT20-5745MHz	Frequency Range:	1GHz to 40GHz
RBW/VBW:	Spurious emission: 1MHz/3MHz for Peak, 1MHz/10Hz for Average.		
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-40GHz, there is not show in the report.		

Vertical						
Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
11490.000	34.95	16.82	51.77	74.00	-22.23	PEAK
17235.000	29.91	22.93	52.84	74.00	-21.16	PEAK
Horizontal						
Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
11570.000	35.83	16.71	52.54	74.00	-21.46	PEAK
17235.000	28.42	22.93	51.35	74.00	-22.65	PEAK

The field strength is calculated by adding the Antenna Factor. Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor –Preamplifier Factor.

Average measurement was not performed if peak level lower than average limit.

No any other emissions level which are attenuated less than 20dB below the limit.

According to 15.31(o), The amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this Part.

Hence there no other emissions have been reported.

TX Mode:	Ant1	Measurement Distance:	3 m
Test channel:	802.11n HT20-5785MHz	Frequency Range:	1GHz to 40GHz
RBW/VBW:	Spurious emission: 1MHz/3MHz for Peak, 1MHz/10Hz for Average.		
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-40GHz, there is not show in the report.		

Vertical						
Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
11570.000	35.39	16.71	52.10	74.00	-21.90	PEAK
17355.000	28.72	24.37	53.09	74.00	-20.91	PEAK
Horizontal						
Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
11570.000	36.12	16.71	52.83	74.00	-21.17	PEAK
17355.000	29.48	24.37	53.85	74.00	-20.15	PEAK

The field strength is calculated by adding the Antenna Factor. Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor –Preamplifier Factor.

Average measurement was not performed if peak level lower than average limit.

No any other emissions level which are attenuated less than 20dB below the limit.

According to 15.31(o), The amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this Part.

Hence there no other emissions have been reported.

TX Mode:	Ant1	Measurement Distance:	3 m
Test channel:	802.11n HT20-5825MHz	Frequency Range:	1GHz to 40GHz
RBW/VBW:	Spurious emission: 1MHz/3MHz for Peak, 1MHz/10Hz for Average		
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-40GHz, there is not show in the report.		

Vertical						
Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
11650.000	33.56	16.61	50.17	74.00	-23.83	PEAK
17475.000	29.71	25.01	54.72	74.00	-19.28	PEAK
Horizontal						
Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
11650.000	34.82	16.61	51.43	74.00	-22.57	PEAK
17475.000	28.37	25.01	53.38	74.00	-20.62	PEAK

The field strength is calculated by adding the Antenna Factor. Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor –Preamplifier Factor.

Average measurement was not performed if peak level lower than average limit.

No any other emissions level which are attenuated less than 20dB below the limit.

According to 15.31(o), The amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this Part.

Hence there no other emissions have been reported.

TX Mode:	Ant1	Measurement Distance:	3 m
Test channel:	802.11n HT40-5190MHz	Frequency Range:	1GHz to 40GHz
RBW/VBW:	Spurious emission: 1MHz/3MHz for Peak, 1MHz/10Hz for Average.		
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-40GHz, there is not show in the report.		

Vertical						
Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
10380.000	39.13	12.58	51.71	74.00	-22.29	PEAK
15570.000	28.50	16.48	44.98	74.00	-29.02	PEAK
Horizontal						
Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
10380.000	38.30	12.58	50.88	74.00	-23.12	PEAK
15570.000	29.43	16.48	45.91	74.00	-28.09	PEAK

The field strength is calculated by adding the Antenna Factor. Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor –Preamplifier Factor.

Average measurement was not performed if peak level lower than average limit.

No any other emissions level which are attenuated less than 20dB below the limit.

According to 15.31(o), The amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this Part.

Hence there no other emissions have been reported.

TX Mode:	Ant1	Measurement Distance:	3 m
Test channel:	802.11n HT40-5230MHz	Frequency Range:	1GHz to 40GHz
RBW/VBW:	Spurious emission: 1MHz/3MHz for Peak, 1MHz/10Hz for Average.		
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-40GHz, there is not show in the report.		

Vertical						
Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
10460.000	37.40	12.66	50.06	74.00	-23.94	PEAK
15690.000	28.21	16.53	44.74	74.00	-29.26	PEAK
Horizontal						
Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
10460.000	36.23	12.66	48.89	74.00	-25.11	PEAK
15690.000	26.54	16.53	43.07	74.00	-30.93	PEAK

The field strength is calculated by adding the Antenna Factor. Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor –Preamplifier Factor.

Average measurement was not performed if peak level lower than average limit.

No any other emissions level which are attenuated less than 20dB below the limit.

According to 15.31(o), The amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this Part.

Hence there no other emissions have been reported.

TX Mode:	Ant1	Measurement Distance:	3 m
Test channel:	802.11n HT40-5755MHz	Frequency Range:	1GHz to 40GHz
RBW/VBW:	Spurious emission: 1MHz/3MHz for Peak, 1MHz/10Hz for Average.		
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-40GHz, there is not show in the report.		

Vertical						
Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
11510.000	34.59	16.78	51.37	74.00	-22.63	PEAK
17265.000	28.31	23.29	51.60	74.00	-22.40	PEAK
Horizontal						
Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
11510.000	35.12	16.78	51.90	74.00	-22.10	PEAK
17265.000	29.43	23.29	52.72	74.00	-21.28	PEAK

The field strength is calculated by adding the Antenna Factor. Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor –Preamplifier Factor.

Average measurement was not performed if peak level lower than average limit.

No any other emissions level which are attenuated less than 20dB below the limit.

According to 15.31(o), The amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this Part.

Hence there no other emissions have been reported.

TX Mode:	Ant1	Measurement Distance:	3 m
Test channel:	802.11n HT40-5795MHz	Frequency Range:	1GHz to 40GHz
RBW/VBW:	Spurious emission: 1MHz/3MHz for Peak, 1MHz/10Hz for Average.		
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-40GHz, there is not show in the report.		

Vertical						
Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
11590.000	36.31	16.69	53.00	74.00	-21.00	PEAK
17385.000	31.40	24.73	56.13	74.00	-17.87	PEAK
Horizontal						
Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
11590.000	34.87	16.69	51.56	74.00	-22.44	PEAK
17385.000	28.20	24.73	52.93	74.00	-21.07	PEAK

The field strength is calculated by adding the Antenna Factor. Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor –Preamplifier Factor.

Average measurement was not performed if peak level lower than average limit.

No any other emissions level which are attenuated less than 20dB below the limit.

According to 15.31(o), The amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this Part.

Hence there no other emissions have been reported.

TX Mode:	Ant1	Measurement Distance:	3 m
Test channel:	802.11ac HT20-5180MHz	Frequency Range:	1GHz to 40GHz
RBW/VBW:	Spurious emission: 1MHz/3MHz for Peak, 1MHz/10Hz for Average.		
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-40GHz, there is not show in the report.		

Vertical						
Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
10360.000	34.79	12.56	47.35	74.00	-26.65	PEAK
15540.000	30.48	16.45	46.93	74.00	-27.07	PEAK
Horizontal						
Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
10360.000	33.05	12.56	45.61	74.00	-28.39	PEAK
15540.000	29.34	16.45	45.79	74.00	-28.21	PEAK

The field strength is calculated by adding the Antenna Factor. Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor –Preamplifier Factor.

Average measurement was not performed if peak level lower than average limit.

No any other emissions level which are attenuated less than 20dB below the limit.

According to 15.31(o), The amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this Part.

Hence there no other emissions have been reported.

TX Mode:	Ant1	Measurement Distance:	3 m
Test channel:	802.11ac HT20-5220MHz	Frequency Range:	1GHz to 40GHz
RBW/VBW:	Spurious emission: 1MHz/3MHz for Peak, 1MHz/10Hz for Average.		
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-40GHz, there is not show in the report.		

Vertical						
Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
10440.000	34.87	12.64	47.51	74.00	-26.49	PEAK
15660.000	31.69	16.53	48.22	74.00	-25.78	PEAK
Horizontal						
Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
10440.000	33.66	12.64	46.30	74.00	-27.70	PEAK
15660.000	32.01	16.53	48.54	74.00	-25.46	PEAK

The field strength is calculated by adding the Antenna Factor. Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor –Preamplifier Factor.

Average measurement was not performed if peak level lower than average limit.

No any other emissions level which are attenuated less than 20dB below the limit.

According to 15.31(o), The amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this Part.

Hence there no other emissions have been reported.

TX Mode:	Ant1	Measurement Distance:	3 m
Test channel:	802.11ac HT20-5240MHz	Frequency Range:	1GHz to 40GHz
RBW/VBW:	Spurious emission: 1MHz/3MHz for Peak, 1MHz/10Hz for Average.		
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-40GHz, there is not show in the report.		

Vertical						
Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
10480.000	34.46	12.68	47.14	74.00	-26.86	PEAK
15720.000	32.93	16.54	49.47	74.00	-24.53	PEAK
Horizontal						
Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
10480.000	33.15	12.68	45.83	74.00	-28.17	PEAK
15720.000	34.79	16.54	51.33	74.00	-22.67	PEAK

The field strength is calculated by adding the Antenna Factor. Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor –Preamplifier Factor.

Average measurement was not performed if peak level lower than average limit.

No any other emissions level which are attenuated less than 20dB below the limit.

According to 15.31(o), The amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this Part.

Hence there no other emissions have been reported.

TX Mode:	Ant1	Measurement Distance:	3 m
Test channel:	802.11ac HT20-5745MHz	Frequency Range:	1GHz to 40GHz
RBW/VBW:	Spurious emission: 1MHz/3MHz for Peak, 1MHz/10Hz for Average.		
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-40GHz, there is not show in the report.		

Vertical						
Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
11490.000	34.93	16.82	51.75	74.00	-22.25	PEAK
17235.000	32.76	22.93	55.69	74.00	-18.31	PEAK
Horizontal						
Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
11490.000	36.17	16.82	52.99	74.00	-21.01	PEAK
17235.000	28.22	22.93	51.15	74.00	-22.85	PEAK

The field strength is calculated by adding the Antenna Factor. Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor –Preamplifier Factor.

Average measurement was not performed if peak level lower than average limit.

No any other emissions level which are attenuated less than 20dB below the limit.

According to 15.31(o), The amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this Part.

Hence there no other emissions have been reported.

TX Mode:	Ant1	Measurement Distance:	3 m
Test channel:	802.11ac HT20-5785MHz	Frequency Range:	1GHz to 40GHz
RBW/VBW:	Spurious emission: 1MHz/3MHz for Peak, 1MHz/10Hz for Average.		
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-40GHz, there is not show in the report.		

Vertical						
Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
11570.000	35.86	16.71	52.57	74.00	-21.43	PEAK
17355.000	29.14	24.37	53.51	74.00	-20.49	PEAK
Horizontal						
Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
11570.000	34.27	16.71	50.98	74.00	-23.02	PEAK
17355.000	28.66	24.37	53.03	74.00	-20.97	PEAK

The field strength is calculated by adding the Antenna Factor. Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor –Preamplifier Factor.

Average measurement was not performed if peak level lower than average limit.

No any other emissions level which are attenuated less than 20dB below the limit.

According to 15.31(o), The amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this Part.

Hence there no other emissions have been reported.

TX Mode:	Ant1	Measurement Distance:	3 m
Test channel:	802.11ac HT20-5825MHz	Frequency Range:	1GHz to 40GHz
RBW/VBW:	Spurious emission: 1MHz/3MHz for Peak, 1MHz/10Hz for Average.		
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-40GHz, there is not show in the report.		

Vertical						
Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
11650.000	35.58	16.61	52.19	74.00	-21.81	PEAK
17475.000	29.30	25.01	54.31	74.00	-19.69	PEAK
Horizontal						
Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
11650.000	33.29	16.61	49.90	74.00	-24.10	PEAK
17475.000	28.76	25.01	53.77	74.00	-20.23	PEAK

The field strength is calculated by adding the Antenna Factor. Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor –Preamplifier Factor.

Average measurement was not performed if peak level lower than average limit.

No any other emissions level which are attenuated less than 20dB below the limit.

According to 15.31(o), The amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this Part.

Hence there no other emissions have been reported.

TX Mode:	Ant1	Measurement Distance:	3 m
Test channel:	802.11ac HT40-5190MHz	Frequency Range:	1GHz to 40GHz
RBW/VBW:	Spurious emission: 1MHz/3MHz for Peak, 1MHz/10Hz for Average.		
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-40GHz, there is not show in the report.		

Vertical						
Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
10380.000	33.12	12.58	45.70	74.00	-28.30	PEAK
15570.000	30.35	16.48	46.83	74.00	-27.17	PEAK
Horizontal						
Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
10380.000	35.57	12.58	48.15	74.00	-25.85	PEAK
15570.000	32.60	16.48	49.08	74.00	-24.92	PEAK

The field strength is calculated by adding the Antenna Factor. Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor –Preamplifier Factor.

Average measurement was not performed if peak level lower than average limit.

No any other emissions level which are attenuated less than 20dB below the limit.

According to 15.31(o), The amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this Part.

Hence there no other emissions have been reported.

TX Mode:	Ant1	Measurement Distance:	3 m
Test channel:	802.11ac HT40-5230MHz	Frequency Range:	1GHz to 40GHz
RBW/VBW:	Spurious emission: 1MHz/3MHz for Peak, 1MHz/10Hz for Average.		
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-40GHz, there is not show in the report.		

Vertical						
Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
10460.000	34.21	12.66	46.87	74.00	-27.13	PEAK
15690.000	30.66	16.53	47.19	74.00	-26.81	PEAK
Horizontal						
Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
10460.000	35.14	12.66	47.80	74.00	-26.20	PEAK
15690.000	30.77	16.53	47.30	74.00	-26.70	PEAK

The field strength is calculated by adding the Antenna Factor. Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor –Preamplifier Factor.

Average measurement was not performed if peak level lower than average limit.

No any other emissions level which are attenuated less than 20dB below the limit.

According to 15.31(o), The amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this Part.

Hence there no other emissions have been reported.

TX Mode:	Ant1	Measurement Distance:	3 m
Test channel:	802.11ac HT40-5755MHz	Frequency Range:	1GHz to 40GHz
RBW/VBW:	Spurious emission: 1MHz/3MHz for Peak, 1MHz/10Hz for Average.		
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-40GHz, there is not show in the report.		

Vertical						
Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
11510.000	36.37	16.78	53.15	74.00	-20.85	PEAK
17265.000	32.92	23.29	56.21	74.00	-17.79	PEAK
Horizontal						
Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
11510.000	34.85	16.78	51.63	74.00	-22.37	PEAK
17265.000	31.20	23.29	54.49	74.00	-19.51	PEAK

The field strength is calculated by adding the Antenna Factor. Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor –Preamplifier Factor.

Average measurement was not performed if peak level lower than average limit.

No any other emissions level which are attenuated less than 20dB below the limit.

According to 15.31(o), The amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this Part.

Hence there no other emissions have been reported.

TX Mode:	Ant1	Measurement Distance:	3 m
Test channel:	802.11ac HT40-5795MHz	Frequency Range:	1GHz to 40GHz
RBW/VBW:	Spurious emission: 1MHz/3MHz for Peak, 1MHz/10Hz for Average.		
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-40GHz, there is not show in the report.		

Vertical						
Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
11590.000	33.17	16.69	49.86	74.00	-24.14	PEAK
17385.000	31.62	24.73	56.35	74.00	-17.65	PEAK
Horizontal						
Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
11590.000	34.80	16.69	51.49	74.00	-22.51	PEAK
17385.000	30.35	24.73	55.08	74.00	-18.92	PEAK

The field strength is calculated by adding the Antenna Factor. Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor –Preamplifier Factor.

Average measurement was not performed if peak level lower than average limit.

No any other emissions level which are attenuated less than 20dB below the limit.

According to 15.31(o), The amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this Part.

Hence there no other emissions have been reported.

TX Mode:	Ant1	Measurement Distance:	3 m
Test channel:	802.11ac HT80-5210MHz	Frequency Range:	1GHz to 40GHz
RBW/VBW:	Spurious emission: 1MHz/3MHz for Peak, 1MHz/10Hz for Average.		
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-40GHz, there is not show in the report.		

Vertical						
Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
10420.000	32.16	12.62	44.78	74.00	-29.22	PEAK
15630.000	29.94	16.52	46.46	74.00	-27.54	PEAK
Horizontal						
Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
10420.000	34.52	12.62	47.14	74.00	-26.86	PEAK
15630.000	31.76	16.52	48.28	74.00	-25.72	PEAK

The field strength is calculated by adding the Antenna Factor. Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor –Preamplifier Factor.

Average measurement was not performed if peak level lower than average limit.

No any other emissions level which are attenuated less than 20dB below the limit.

According to 15.31(o), The amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this Part.

Hence there no other emissions have been reported.

TX Mode:	Ant1	Measurement Distance:	3 m
Test channel:	802.11ac HT80-5775MHz	Frequency Range:	1GHz to 40GHz
RBW/VBW:	Spurious emission: 1MHz/3MHz for Peak, 1MHz/10Hz for Average.		
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-40GHz, there is not show in the report.		

Vertical						
Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
11550.000	33.11	16.73	49.84	74.00	-24.16	PEAK
17325.000	30.45	24.01	54.46	74.00	-19.54	PEAK
Horizontal						
Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
11550.000	34.78	16.73	51.51	74.00	-22.49	PEAK
17325.000	31.54	24.01	55.55	74.00	-18.45	PEAK

The field strength is calculated by adding the Antenna Factor. Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor –Preamplifier Factor.

Average measurement was not performed if peak level lower than average limit.

No any other emissions level which are attenuated less than 20dB below the limit.

According to 15.31(o), The amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this Part.

Hence there no other emissions have been reported.

4.3 Radiated Restricted Band Edge Measurement

4.3.1 Applied procedures / Limit

Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:
(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.
(2) For transmitters operating in the 5.725-5.85 GHz band: All emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of −17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of −27 dBm/MHz.
(3) The emission measurements shall be performed using a minimum resolution bandwidth of 1 MHz. A lower resolution bandwidth may be employed near the band edge, when necessary, provided the measured energy is integrated to show the total power over 1 MHz.
(4) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209. Further, any U-NII devices using an AC power line are required to comply also with the conducted limits set forth in §15.207.
(5) The provisions of §15.205 apply to intentional radiators operating under this section. (6) When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the upper and lower frequency band edges as the design of the equipment permits.

4.3.2 Test procedure

For Band edge

Spectrum Parameter	Setting
Detector	Peak
Start/Stop Frequency	Lower Band Edge: 5150 MHz Upper Band Edge: 5350 MHz
RB / VB (emission in restricted band)	1000 KHz/3000 KHz
Trace-Mode:	Max hold

For Band edge

Spectrum Parameter	Setting
Detector	Peak
Start/Stop Frequency	Lower Band Edge: 5700 to 5725 MHz Upper Band Edge: 5850 to 5870 MHz
RB / VB (emission in restricted band)	1000 KHz/3000 KHz
Trace-Mode:	Max hold

Test setup;

4.3.3 Deviation from standard

No deviation.

4.3.4 Test results

TestMode	Antenna	ChName	Frequency[MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11A	Ant1	Low	5180	AV	4500.000	-50.35	≤-41.20	44.85	≤54	PASS
				AV	5149.600	-42.68	≤-41.20	52.52	≤54	PASS
				AV	5150.000	-42.73	≤-41.20	52.47	≤54	PASS
				Peak	4500.000	-47.32	≤-21.20	47.88	≤74	PASS
				Peak	5143.300	-35.65	≤-21.20	59.55	≤74	PASS
				Peak	5150.000	-43.88	≤-21.20	51.32	≤74	PASS
	Ant2	Low	5180	AV	4500.000	-50.48	≤-41.20	44.72	≤54	PASS
				AV	5146.800	-43.44	≤-41.20	51.76	≤54	PASS
				AV	5150.000	-43.68	≤-41.20	51.52	≤54	PASS
				Peak	4500.000	-44.79	≤-21.20	50.41	≤74	PASS
				Peak	5145.400	-33.41	≤-21.20	61.79	≤74	PASS
				Peak	5150.000	-32.04	≤-21.20	63.16	≤74	PASS
	Ant1	High	5240	AV	5350.000	-50.42	≤-41.20	44.78	≤54	PASS
				AV	5450.880	-50.03	≤-41.20	45.17	≤54	PASS
				AV	5460.000	-50.47	≤-41.20	44.73	≤54	PASS
				Peak	5350.000	-44.75	≤-21.20	50.45	≤74	PASS
				Peak	5357.040	-40.74	≤-21.20	54.46	≤74	PASS
				Peak	5460.000	-46.07	≤-21.20	49.13	≤74	PASS
	Ant2	High	5240	AV	5350.000	-50.4	≤-41.20	44.80	≤54	PASS
				AV	5388.960	-49.47	≤-41.20	45.73	≤54	PASS
				AV	5460.000	-50.42	≤-41.20	44.78	≤54	PASS
				Peak	5350.000	-45.43	≤-21.20	49.77	≤74	PASS
				Peak	5428.800	-41.54	≤-21.20	53.66	≤74	PASS
				Peak	5460.000	-45.31	≤-21.20	49.89	≤74	PASS
	Ant1	Low	5745	Peak	5650.000	-39.774	≤-27.00	---	---	PASS
				Peak	5700.000	-25.9	≤10.00	---	---	PASS
				Peak	5720.000	-15.45	≤15.60	---	---	PASS
				Peak	5725.000	-13.05	≤27.00	- --	- --	PASS
	Ant2	Low	5745	Peak	5650.000	-35.412	≤-27.00	---	---	PASS
				Peak	5700.000	-16.84	≤10.00	---	---	PASS

				Peak	5720.000	-12.01	≤15.60	---	---	PASS
				Peak	5725.000	-10.32	≤27.00	- --	- --	PASS
	Ant1	High	5825	Peak	5850.000	-30.147	≤15.60	---	---	PASS
				Peak	5855.000	-31.26	≤27.00	---	---	PASS
				Peak	5875.000	-35.47	≤15.60	---	---	PASS
				Peak	5925.000	-41.35	≤10.00	- --	- --	PASS
	Ant2	High	5825	Peak	5850.000	-20.043	≤15.60	---	---	PASS
				Peak	5855.000	-22.89	≤27.00	---	---	PASS
				Peak	5875.000	-32.45	≤15.60	---	---	PASS
				Peak	5925.000	-42.91	≤10.00	- --	- --	PASS
11N20SISO	Ant1	Low	5180	AV	4500.000	-50.33	≤-41.20	44.87	≤54	PASS
				AV	5149.600	-42.16	≤-41.20	53.04	≤54	PASS
				AV	5150.000	-41.92	≤-41.20	53.28	≤54	PASS
				Peak	4500.000	-42.83	≤-21.20	52.37	≤74	PASS
				Peak	5149.600	-30.43	≤-21.20	64.77	≤74	PASS
				Peak	5150.000	-34.63	≤-21.20	60.57	≤74	PASS
	Ant2	Low	5180	AV	4500.000	-50.4	≤-41.20	44.80	≤54	PASS
				AV	5149.600	-41.29	≤-41.20	53.91	≤54	PASS
				AV	5150.000	-41.27	≤-41.20	53.93	≤54	PASS
				Peak	4500.000	-45.96	≤-21.20	49.24	≤74	PASS
				Peak	5135.600	-31.25	≤-21.20	63.95	≤74	PASS
				Peak	5150.000	-34.55	≤-21.20	60.65	≤74	PASS
	Ant1	High	5240	AV	5350.000	-50.46	≤-41.20	44.74	≤54	PASS
				AV	5450.160	-50.09	≤-41.20	45.11	≤54	PASS
				AV	5460.000	-50.39	≤-41.20	44.81	≤54	PASS
				Peak	5350.000	-45.77	≤-21.20	49.43	≤74	PASS
				Peak	5405.760	-40.9	≤-21.20	54.30	≤74	PASS
				Peak	5460.000	-45.16	≤-21.20	50.04	≤74	PASS
	Ant2	High	5240	AV	5350.000	-50.26	≤-41.20	44.94	≤54	PASS
				AV	5390.160	-49.26	≤-41.20	45.94	≤54	PASS
				AV	5460.000	-50.21	≤-41.20	44.99	≤54	PASS
				Peak	5350.000	-45.53	≤-21.20	49.67	≤74	PASS
				Peak	5355.840	-41.13	≤-21.20	54.07	≤74	PASS
				Peak	5460.000	-44.85	≤-21.20	50.35	≤74	PASS
	Ant1	Low	5745	Peak	5650.000	-38.555	≤-27.00	---	---	PASS

				Peak	5700.000	-20.91	≤10.00	---	---	PASS
				Peak	5720.000	-13.48	≤15.60	---	---	PASS
				Peak	5725.000	-12.02	≤27.00	- --	- --	PASS
	Ant2	Low	5745	Peak	5650.000	-38.801	≤-27.00	---	---	PASS
				Peak	5700.000	-23.88	≤10.00	---	---	PASS
				Peak	5720.000	-12.02	≤15.60	---	---	PASS
				Peak	5725.000	-7.7	≤27.00	- --	- --	PASS
	Ant1	High	5825	Peak	5850.000	-15.946	≤15.60	---	---	PASS
				Peak	5855.000	-19.83	≤27.00	---	---	PASS
				Peak	5875.000	-27.7	≤15.60	---	---	PASS
				Peak	5925.000	-42.28	≤10.00	- --	- --	PASS
	Ant2	High	5825	Peak	5850.000	-22.706	≤15.60	---	---	PASS
				Peak	5855.000	-26.2	≤27.00	---	---	PASS
				Peak	5875.000	-28.59	≤15.60	---	---	PASS
				Peak	5925.000	-45.61	≤10.00	- --	- --	PASS
11N40SISO	Ant1	Low	5190	AV	4500.000	-50.1	≤-41.20	45.10	≤54	PASS
				AV	5149.600	-41.53	≤-41.20	53.67	≤54	PASS
				AV	5150.000	-41.24	≤-41.20	53.96	≤54	PASS
				Peak	4500.000	-43.61	≤-21.20	51.59	≤74	PASS
				Peak	5146.800	-33.39	≤-21.20	61.81	≤74	PASS
				Peak	5150.000	-34.84	≤-21.20	60.36	≤74	PASS
	Ant2	Low	5190	AV	4500.000	-50.25	≤-41.20	44.95	≤54	PASS
				AV	5149.600	-42.15	≤-41.20	53.05	≤54	PASS
				AV	5150.000	-41.82	≤-41.20	53.38	≤54	PASS
				Peak	4500.000	-44.11	≤-21.20	51.09	≤74	PASS
				Peak	5145.400	-34.25	≤-21.20	60.95	≤74	PASS
				Peak	5150.000	-36.12	≤-21.20	59.08	≤74	PASS
	Ant1	High	5230	AV	5350.000	-50.39	≤-41.20	44.81	≤54	PASS
				AV	5350.800	-49.95	≤-41.20	45.25	≤54	PASS
				AV	5460.000	-50.19	≤-41.20	45.01	≤54	PASS
				Peak	5350.000	-44.72	≤-21.20	50.48	≤74	PASS
				Peak	5411.380	-42.26	≤-21.20	52.94	≤74	PASS
				Peak	5460.000	-44.11	≤-21.20	51.09	≤74	PASS
	Ant2	High	5230	AV	5350.000	-50.13	≤-41.20	45.07	≤54	PASS
				AV	5354.440	-50.1	≤-41.20	45.10	≤54	PASS

				AV	5460.000	-50.52	≤-41.20	44.68	≤54	PASS
				Peak	5350.000	-45.07	≤-21.20	50.13	≤74	PASS
				Peak	5353.140	-41.67	≤-21.20	53.53	≤74	PASS
				Peak	5460.000	-46.25	≤-21.20	48.95	≤74	PASS
	Ant1	Low	5755	Peak	5650.000	-34.735	≤-27.00	---	---	PASS
				Peak	5700.000	-20.22	≤10.00	---	---	PASS
				Peak	5720.000	-15.66	≤15.60	---	---	PASS
				Peak	5725.000	-13.33	≤27.00	- --	- --	PASS
	Ant2	Low	5755	Peak	5650.000	-33.764	≤-27.00	---	---	PASS
				Peak	5700.000	-19.2	≤10.00	---	---	PASS
				Peak	5720.000	-10.66	≤15.60	---	---	PASS
				Peak	5725.000	-10.4	≤27.00	- --	- --	PASS
	Ant1	High	5795	Peak	5850.000	-24.662	≤15.60	---	---	PASS
				Peak	5855.000	-27.03	≤27.00	---	---	PASS
				Peak	5875.000	-32.31	≤15.60	---	---	PASS
				Peak	5925.000	-41.73	≤10.00	- --	- --	PASS
	Ant2	High	5795	Peak	5850.000	-23.301	≤15.60	---	---	PASS
				Peak	5855.000	-25.85	≤27.00	---	---	PASS
				Peak	5875.000	-29.63	≤15.60	---	---	PASS
				Peak	5925.000	-41.08	≤10.00	- --	- --	PASS
11AC20S ISO	Ant1	Low	5180	AV	4500.000	-50.43	≤-41.20	44.77	≤54	PASS
				AV	5149.600	-42.17	≤-41.20	53.03	≤54	PASS
				AV	5150.000	-41.72	≤-41.20	53.48	≤54	PASS
				Peak	4500.000	-45.35	≤-21.20	49.85	≤74	PASS
				Peak	5146.100	-32.24	≤-21.20	62.96	≤74	PASS
				Peak	5150.000	-39.24	≤-21.20	55.96	≤74	PASS
	Ant2	Low	5180	AV	4500.000	-50.54	≤-41.20	44.66	≤54	PASS
				AV	5149.600	-42.48	≤-41.20	52.72	≤54	PASS
				AV	5150.000	-42.15	≤-41.20	53.05	≤54	PASS
				Peak	4500.000	-45.98	≤-21.20	49.22	≤74	PASS
				Peak	5145.400	-32.12	≤-21.20	63.08	≤74	PASS
				Peak	5150.000	-41.03	≤-21.20	54.17	≤74	PASS
	Ant1	High	5240	AV	5350.000	-50.46	≤-41.20	44.74	≤54	PASS
				AV	5450.400	-50.2	≤-41.20	45.00	≤54	PASS

				AV	5460.000	-50.43	≤-41.20	44.77	≤54	PASS
				Peak	5350.000	-44.78	≤-21.20	50.42	≤74	PASS
				Peak	5441.280	-41.6	≤-21.20	53.60	≤74	PASS
				Peak	5460.000	-45.04	≤-21.20	50.16	≤74	PASS
	Ant2	High	5240	AV	5350.000	-50.56	≤-41.20	44.64	≤54	PASS
				AV	5389.680	-49.9	≤-41.20	45.30	≤54	PASS
				AV	5460.000	-50.5	≤-41.20	44.70	≤54	PASS
				Peak	5350.000	-44.39	≤-21.20	50.81	≤74	PASS
				Peak	5430.000	-40.06	≤-21.20	55.14	≤74	PASS
				Peak	5460.000	-46.03	≤-21.20	49.17	≤74	PASS
	Ant1	Low	5745	Peak	5650.000	-39.077	≤-27.00	---	---	PASS
				Peak	5700.000	-23.19	≤10.00	---	---	PASS
				Peak	5720.000	-12.33	≤15.60	---	---	PASS
				Peak	5725.000	-10.52	≤27.00	- --	- --	PASS
	Ant2	Low	5745	Peak	5650.000	-39.599	≤-27.00	---	---	PASS
				Peak	5700.000	-21.15	≤10.00	---	---	PASS
				Peak	5720.000	-12.39	≤15.60	---	---	PASS
				Peak	5725.000	-8.89	≤27.00	- --	- --	PASS
	Ant1	High	5825	Peak	5850.000	-22.715	≤15.60	---	---	PASS
				Peak	5855.000	-25.75	≤27.00	---	---	PASS
				Peak	5875.000	-30.39	≤15.60	---	---	PASS
				Peak	5925.000	-44.87	≤10.00	- --	- --	PASS
	Ant2	High	5825	Peak	5850.000	-24.673	≤15.60	---	---	PASS
				Peak	5855.000	-26.82	≤27.00	---	---	PASS
				Peak	5875.000	-32.95	≤15.60	---	---	PASS
				Peak	5925.000	-43.67	≤10.00	- --	- --	PASS
11AC40S ISO	Ant1	Low	5190	AV	4500.000	-50.22	≤-41.20	44.98	≤54	PASS
				AV	5149.600	-41.6	≤-41.20	53.60	≤54	PASS
				AV	5150.000	-41.36	≤-41.20	53.84	≤54	PASS
				Peak	4500.000	-46.1	≤-21.20	49.10	≤74	PASS
				Peak	5149.600	-31.65	≤-21.20	63.55	≤74	PASS
				Peak	5150.000	-36.85	≤-21.20	58.35	≤74	PASS
	Ant2	Low	5190	AV	4500.000	-50.02	≤-41.20	45.18	≤54	PASS
				AV	5149.600	-42.28	≤-41.20	52.92	≤54	PASS

				AV	5150.000	-42.11	≤-41.20	53.09	≤54	PASS
				Peak	4500.000	-44.39	≤-21.20	50.81	≤74	PASS
				Peak	5135.600	-34.8	≤-21.20	60.40	≤74	PASS
				Peak	5150.000	-35.49	≤-21.20	59.71	≤74	PASS
	Ant1	High	5230	AV	5350.000	-50.19	≤-41.20	45.01	≤54	PASS
				AV	5360.680	-49.93	≤-41.20	45.27	≤54	PASS
				AV	5460.000	-50.21	≤-41.20	44.99	≤54	PASS
				Peak	5350.000	-45.4	≤-21.20	49.80	≤74	PASS
				Peak	5359.120	-41.69	≤-21.20	53.51	≤74	PASS
				Peak	5460.000	-45.13	≤-21.20	50.07	≤74	PASS
	Ant2	High	5230	AV	5350.000	-50.23	≤-41.20	44.97	≤54	PASS
				AV	5374.200	-50.05	≤-41.20	45.15	≤54	PASS
				AV	5460.000	-50.45	≤-41.20	44.75	≤54	PASS
				Peak	5350.000	-43.86	≤-21.20	51.34	≤74	PASS
				Peak	5448.560	-41.12	≤-21.20	54.08	≤74	PASS
				Peak	5460.000	-43.03	≤-21.20	52.17	≤74	PASS
	Ant1	Low	5755	Peak	5650.000	-36.175	≤-27.00	---	---	PASS
				Peak	5700.000	-21.2	≤10.00	---	---	PASS
				Peak	5720.000	-14.72	≤15.60	---	---	PASS
				Peak	5725.000	-13.38	≤27.00	- --	- --	PASS
	Ant2	Low	5755	Peak	5650.000	-31.684	≤-27.00	---	---	PASS
				Peak	5700.000	-18.39	≤10.00	---	---	PASS
				Peak	5720.000	-8.38	≤15.60	---	---	PASS
				Peak	5725.000	-9.26	≤27.00	- --	- --	PASS
	Ant1	High	5795	Peak	5850.000	-23.335	≤15.60	---	---	PASS
				Peak	5855.000	-26.43	≤27.00	---	---	PASS
				Peak	5875.000	-29.35	≤15.60	---	---	PASS
				Peak	5925.000	-41.92	≤10.00	- --	- --	PASS
	Ant2	High	5795	Peak	5850.000	-24.607	≤15.60	---	---	PASS
				Peak	5855.000	-25.23	≤27.00	---	---	PASS
				Peak	5875.000	-28.4	≤15.60	---	---	PASS
				Peak	5925.000	-41.35	≤10.00	- --	- --	PASS
11AC80S ISO	Ant1	Low	5210	AV	4500.000	-49.55	≤-41.20	45.65	≤54	PASS
				AV	5149.500	-39.45	≤-41.20	55.75	≤54	FAIL

				AV	5150.000	-39.65	≤-41.20	55.55	≤54	FAIL
				Peak	4500.000	-44.84	≤-21.20	50.36	≤74	PASS
				Peak	5148.000	-33.96	≤-21.20	61.24	≤74	PASS
				Peak	5150.000	-36.19	≤-21.20	59.01	≤74	PASS
	Ant2	Low	5210	AV	4500.000	-59.54	≤-41.20	35.66	≤54	PASS
				AV	5149.500	-39.6	≤-41.20	55.60	≤54	FAIL
				AV	5150.000	-39.77	≤-41.20	55.43	≤54	FAIL
				Peak	4500.000	-52.65	≤-21.20	42.55	≤74	PASS
				Peak	5148.000	-33.88	≤-21.20	61.32	≤74	PASS
				Peak	5150.000	-33.92	≤-21.20	61.28	≤74	PASS
	Ant1	High	5210	AV	5350.000	-49.59	≤-41.20	45.61	≤54	PASS
				AV	5350.240	-49.56	≤-41.20	45.64	≤54	PASS
				AV	5460.000	-50.04	≤-41.20	45.16	≤54	PASS
				Peak	5350.000	-44.38	≤-21.20	50.82	≤74	PASS
				Peak	5410.160	-41.64	≤-21.20	53.56	≤74	PASS
				Peak	5460.000	-44.6	≤-21.20	50.60	≤74	PASS
	Ant2	High	5210	AV	5350.000	-49.86	≤-41.20	45.34	≤54	PASS
				AV	5353.600	-49.59	≤-41.20	45.61	≤54	PASS
				AV	5460.000	-50.27	≤-41.20	44.93	≤54	PASS
				Peak	5350.000	-44.18	≤-21.20	51.02	≤74	PASS
				Peak	5362.000	-41.89	≤-21.20	53.31	≤74	PASS
				Peak	5460.000	-44.58	≤-21.20	50.62	≤74	PASS
	Ant1	Low	5775	Peak	5650.000	-29.393	≤-27.00	---	---	PASS
				Peak	5700.000	-18.86	≤10.00	---	---	PASS
				Peak	5720.000	-14.03	≤15.60	---	---	PASS
				Peak	5725.000	-12.78	≤27.00	- --	- --	PASS
	Ant2	Low	5775	Peak	5650.000	-34.233	≤-27.00	---	---	PASS
				Peak	5700.000	-30.63	≤10.00	---	---	PASS
				Peak	5720.000	-18.98	≤15.60	---	---	PASS
				Peak	5725.000	-25.47	≤27.00	- --	- --	PASS
	Ant1	High	5775	Peak	5850.000	-22.401	≤15.60	---	---	PASS
				Peak	5855.000	-24.47	≤27.00	---	---	PASS
				Peak	5875.000	-27.48	≤15.60	---	---	PASS
				Peak	5925.000	-31.95	≤10.00	- --	- --	PASS
	Ant2	High	5775	Peak	5850.000	-20.64	≤15.60	---	---	PASS

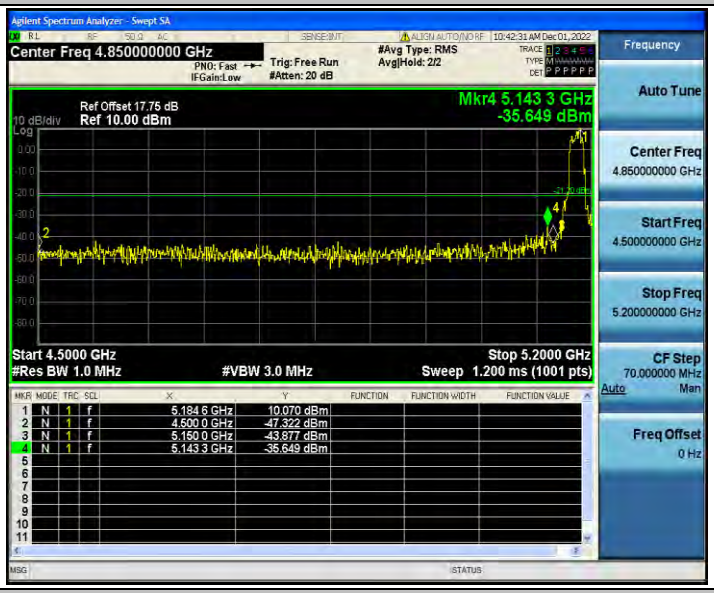
						7				
				Peak	5855.000	-21.84	≤27.00	---	---	PASS
				Peak	5875.000	-27.17	≤15.60	---	---	PASS
				Peak	5925.000	-34.02	≤10.00	- --	- --	PASS

Note：

1. The Antenna Gain is compensated in the graph.
2. For transmitters operating in 5150-5350 GHz band and 5470-5725 GHz band: The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

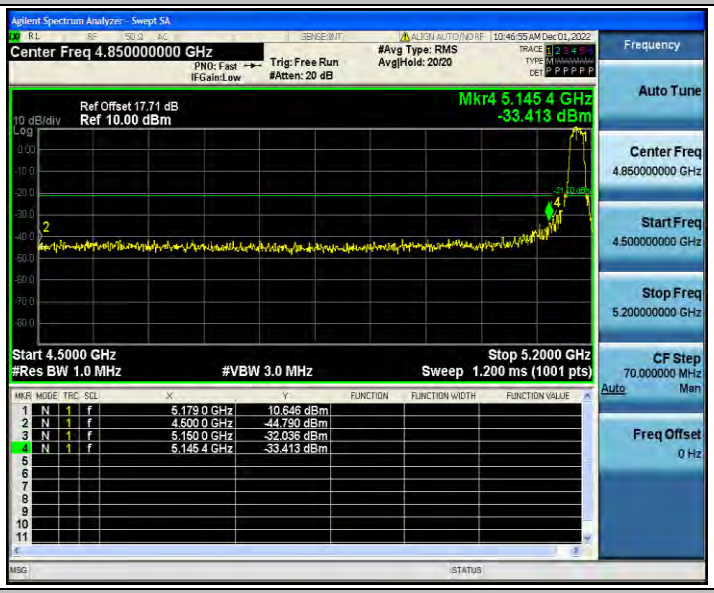
11A_Ant1_Low_5180_AV

11A_Ant1_Low_5180_Peak



11A_Ant2_Low_5180_AV

11A_Ant2_Low_5180_Peak



11A_Ant1_High_5240_AV

11A_Ant1_High_5240_Peak

11A_Ant2_High_5240_AV

11A_Ant2_High_5240_Peak

11A_Ant1_Low_5745_Peak

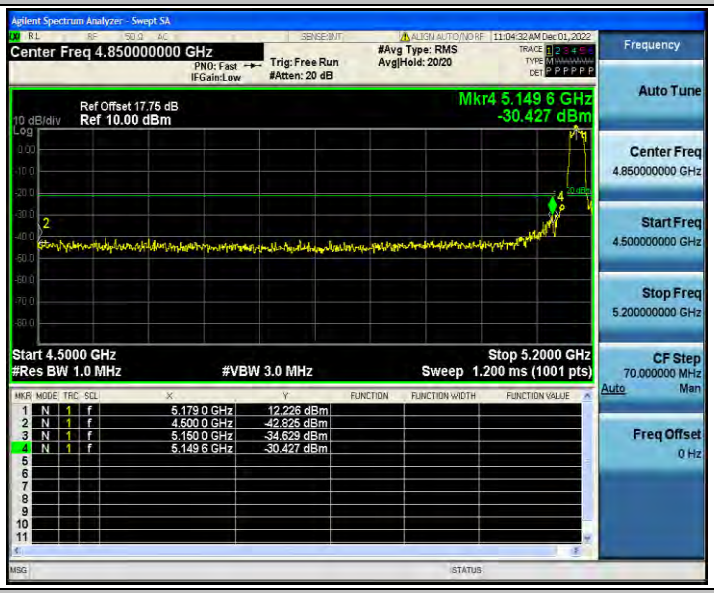
11A_Ant2_Low_5745_Peak

11A_Ant1_High_5825_Peak

11A_Ant2_High_5825_Peak

11N20SISO_Ant1_Low_5180_AV

11N20SISO_Ant1_Low_5180_Peak



11N20SISO_Ant2_Low_5180_AV

11N20SISO_Ant2_Low_5180_Peak

11N20SISO_Ant1_High_5240_AV

11N20SISO_Ant1_High_5240_Peak

11N20SISO_Ant2_High_5240_AV

11N20SISO_Ant2_High_5240_Peak

11N20SISO_Ant1_Low_5745_Peak

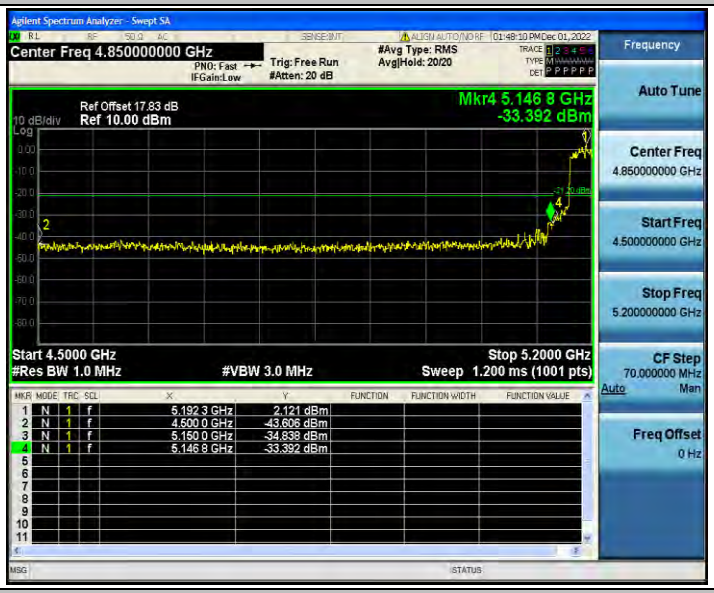
11N20SISO_Ant2_Low_5745_Peak

11N20SISO_Ant1_High_5825_Peak

11N20SISO_Ant2_High_5825_Peak

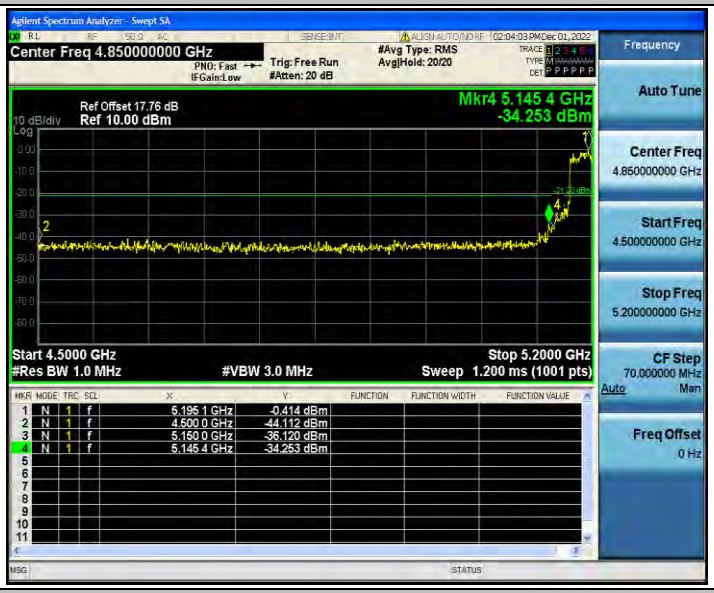
11N40SISO_Ant1_Low_5190_AV

11N40SISO_Ant1_Low_5190_Peak



11N40SISO_Ant2_Low_5190_AV

11N40SISO_Ant2_Low_5190_Peak



11N40SISO_Ant1_High_5230_AV

11N40SISO_Ant1_High_5230_Peak

11N40SISO_Ant2_High_5230_AV

11N40SISO_Ant2_High_5230_Peak

11N40SISO_Ant1_Low_5755_Peak

11N40SISO_Ant2_Low_5755_Peak

11N40SISO_Ant1_High_5795_Peak

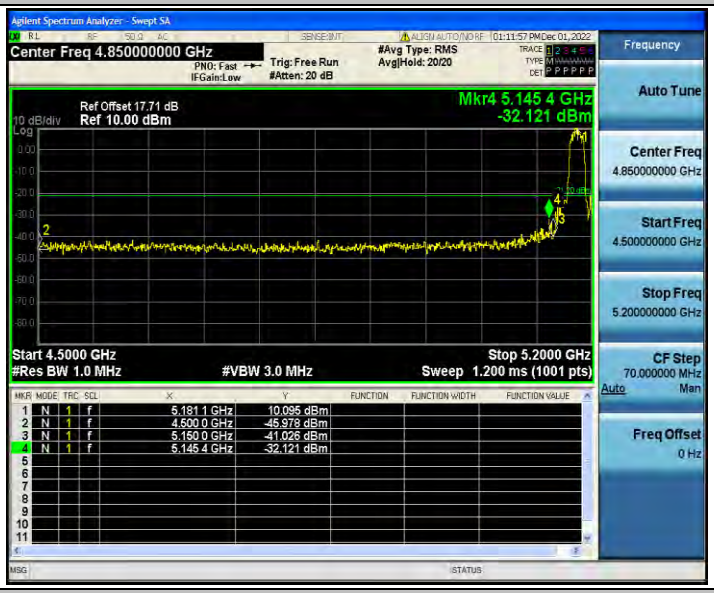
11N40SISO_Ant2_High_5795_Peak

11AC20SISO_Ant1_Low_5180_AV

11AC20SISO_Ant1_Low_5180_Peak

11AC20SISO_Ant2_Low_5180_AV

11AC20SISO_Ant2_Low_5180_Peak



11AC20SISO_Ant1_High_5240_AV

11AC20SISO_Ant1_High_5240_Peak

11AC20SISO_Ant2_High_5240_AV

11AC20SISO_Ant2_High_5240_Peak

11AC20SISO_Ant1_Low_5745_Peak

11AC20SISO_Ant2_Low_5745_Peak

11AC20SISO_Ant1_High_5825_Peak

11AC20SISO_Ant2_High_5825_Peak

11AC40SISO_Ant1_Low_5190_AV

11AC40SISO_Ant1_Low_5190_Peak

11AC40SISO_Ant2_Low_5190_AV