FCC TEST REPORT

(Part 15, Subpart E)

Applicant:	PAX Technology Limited
Address:	Room 2416, 24/F., Sun Hung Kai Centre, 30 Harbour Road, Wanchai, Hong Kong

Manufacturer or Supplier:	PAX Computer Technology (Shenzhen) Co., Ltd.
Address:	401 and 402,Building 3, Shenzhen Software Park, Nanshan District, Shenzhen City, Guangdong Province, P.R.C
Product:	Smart Mobile Payment Terminal
Brand Name:	PAX
Model Name:	A960
FCC ID:	V5PA960
Date of tests:	Nov. 30, 2022 ~ Dec. 12, 2022

The tests have been carried out according to the requirements of the following standard:

☒ **FCC Part 15, Subpart E, Section 15.407**

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Prepared by Simon Wang	Approved by Luke Lu
Engineer / Mobile Department	Manager / Mobile Department
Simon Wang	Luke Lu
Date: Dec. 12, 2022	Date: Dec. 12, 2022

This report is governed by, and incorporates by reference, the Conditions of Testing as posted at the date of issuance of this report at http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions/ and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. Statements of conformity are based on simple acceptance criteria without taking measurement uncertainty into account, unless otherwise requested in writing. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
W7L-P22110037RF03	Original release	Dec. 12, 2022

1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC PART 15, SUBPART E		
STANDARD SECTION	**TEST TYPE AND LIMIT**	**RESULT**
15.407(b)(6)	AC Power Conducted Emission	Compliance
15.407(b) (1/2/3/4/5)	Radiated Emission & Band Edge Measurement	Compliance
15.407(a/1/2/3)	Maximum conducted output Power	Compliance
15.407(a/1/2/3)	Peak Power Spectral Density	Compliance
15.403(i)	26 dB Bandwidth	Compliance
15.407(e)	6 dB Bandwidth	Compliance
15.203	Antenna Requirement	Compliance

NOTE:

1. Except the data of RSE and Band Edge Measurement, other data of 802.11a & 802.11n/ac (20/40) & 802.11ac 80 please refer to the appendix.

2. Only the worse data were reported.

1.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

MEASUREMENT	UNCERTAINTY
AC Power Conducted emissions	±2.70dB
Radiated emissions (9KHz~30MHz)	±2.68dB
Radiated emissions (30MHz~1GMHz)	±4.98dB
Radiated emissions (1GMHz ~6GMHz)	±4.70dB
Radiated emissions (6GMHz ~18GMHz)	±4.60dB
Radiated emissions (18GMHz ~40GMHz)	±4.12dB
Conducted emissions	±4.01dB
Occupied Channel Bandwidth	±43.58KHz
Conducted Output power	±2.06dB
Power Spectral Density	±0.85 dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k = 2.

2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Smart Mobile Payment Terminal
BRAND NAME	PAX
MODEL NAME	A960
NOMINAL VOLTAGE	5.0Vdc(adapter or host equipment) 3.7Vdc (Li-ion, battery)
MODULATION	OFDM
TRANSFER RATE	802.11a: 54.0/ 48.0/ 36.0/ 24.0/ 18.0/ 12.0/ 9.0/ 6.0Mbps 802.11n: up to 150.0Mbps 802.11ac: up to 433.3Mbps
OPERATING FREQUENCY	5180 ~ 5240MHz, 5260 ~ 5320MHz, 5500 ~ 5720MHz, 5745 ~ 5825MHz
NUMBER OF CHANNEL	5180 ~ 5240MHz: 4 for 802.11a, 802.11n/ac (20MHz) 2 for 802.11n/ac (40MHz) 1 for 802. 802.11ac(80MHz) 5260 ~ 5320MHz: 4 for 802.11a, 802.11n/ac (20MHz) 2 for 802.11n/ac (40MHz) 1 for 802.11ac (80MHz) 5500 ~ 5720MHz: 12 for 802.11a, 802.11n/ac (20MHz)/ 6 for 802.11n/ac (40MHz) 3 for 802.11ac (80MHz) 5745 ~ 5825MHz: 5 for 802.11a, 802.11n/ac (20MHz) 2 for 802.11n/ac (40MHz) 1 for 802.11ac (80MHz)
AVERAGE POWER	27.80mW for 5180 ~ 5240MHz 26.24mW for 5260 ~ 5320MHz 26.67mW for 5500 ~ 5720MHz 27.42mW for 5745 ~ 5825MHz
ANTENNA TYPE	Monopole Antenna
ANTENNA GAIN	1.7dBi for 5180 ~ 5240MHz 1.7dBi for 5260 ~ 5320MHz 1.93dBi for 5500 ~ 5720MHz 1.98dBi for 5745 ~ 5825MHz
HW VERSION	A960
SW VERSION	N/A
I/O PORTS	Refer to user's manual

CABLE SUPPLIED	USB cable: non-shielded cable, with w/o ferrite core, 1.0 meter

NOTE:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

2. The EUT incorporates a SISO function. Physically, the EUT provides one completed transmitter and one receiver.

MODULATION MODE	TX FUNCTION
802.11a	1TX /1RX
802.11n/802.11ac (20MHz)	1TX /1RX
802.11n/802.11ac (40MHz)	1TX /1RX
802.11ac (80MHz)	1TX /1RX

3. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.

List of Accessory:

ACCESSORIES	BRAND	MANUFACTURER	MODEL	SPECIFICATION
Battery	VEKEN	N/A	YW-029	Capacity：3.7Vdc, 5150mAh
AC Adapter	PAX	Shenzhen Sorghum red Electronics Technology Co.,Ltd	GLH50D2000HW	I/P: 100-240Vac, 0.4A, O/P: 5.0Vdc, 2A
USB Cable	N/A	N/A	N/A	Signal Line,1.0meter

2.2 DESCRIPTION OF TEST MODES

FOR 5180 ~ 5240MHz

4 channels are provided for 802.11a, 802.11n, 802.11ac (20MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
36	5180 MHz	44	5220 MHz
40	5200 MHz	48	5240 MHz

2 channels are provided for 802.11n, 802.11ac (40MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
38	5190 MHz	46	5230 MHz

1 channel is provided for 802.11ac (80MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
42	5210 MHz		

FOR 5260 ~ 5320MHz

4 channels are provided for 802.11a, 802.11n, 802.11ac (20MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
52	5260 MHz	60	5300 MHz
56	5280 MHz	64	5320 MHz

2 channels are provided for 802.11n, 802.11ac (40MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
54	5270 MHz	62	5310 MHz

1 channel is provided for 802.11ac (80MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
58	5290 MHz		

FOR 5500 ~ 5720MHz

12 channels are provided for 802.11a, 802.11n, 802.11ac (20MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
100	5500 MHz	124	5620MHz
104	5520 MHz	128	5640MHz
108	5540 MHz	132	5660 MHz
112	5560 MHz	136	5680 MHz
116	5580 MHz	140	5700 MHz
120	5600 MHz	144	5720 MHz

6 channels are provided for 802.11n, 802.11ac (40MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
102	5510 MHz	126	5630MHz
110	5550 MHz	134	5670 MHz
118	5590 MHz	142	5710 MHz

3 channel is provided for 802.11ac (80MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
106	5530 MHz	138	5690 MHz
122	5610 MHz		

FOR 5745 ~ 5825MHz

5 channels are provided for 802.11a, 802.11n, 802.11ac (20MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
149	5745 MHz	161	5805 MHz
153	5765 MHz	165	5825 MHz
157	5785 MHz		

2 channels are provided for 802.11n, 802.11ac (40MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
151	5755 MHz	159	5795 MHz

1 channel is provided for 802.11ac (80MHz):

CHANNEL	FREQUENCY
155	5775 MHz

2.2.1 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT CONFIGURE MODE	APPLICABLE TO				DESCRIPTION
	RE≥1G	RE<1G	PLC	APCM	
A	√	√	√	**-**	Powered by Adapter with wifi(5G) link
B	-	-	-	√	Powered by Battery with wifi(5G) link
C	-	-	-	-	Powered by USB with wifi(5G) link

Where **RE≥1G:** Radiated Emission above 1GHz **RE<1G:** Radiated Emission below 1GHz
PLC: Power Line Conducted Emission **APCM:** Antenna Port Conducted Measurement

NOTE:
The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **X-plane.**
NOTE: "-"means no effect.

RADIATED EMISSION TEST (BELOW 1GHz):

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
A	802.11ac (20MHz)	5745-5825	149 to 165	165	OFDM	MCS0

RADIATED EMISSION TEST (ABOVE 1GHz):

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
A	802.11a	5180-5240	36 to 48	36, 48	OFDM	6.0
A	802.11an/ac (20MHz)		36 to 48	36, 48	OFDM	MCS0
A	802.11an/ac (40MHz)		38 to 46	38, 46	OFDM	MCS0
A	802.11ac (80MHz)		42	42	OFDM	MCS0
A	802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	6.0
A	802.11an/ac (20MHz)		52 to 64	52, 60, 64	OFDM	MCS0
A	802.11an/ac (40MHz)		54 to 62	54, 62	OFDM	MCS0
A	802.11ac (80MHz)		58	58	OFDM	MCS0
A	802.11a	5500-5720	100 to 144	100, 116, 140, 144	OFDM	6.0
A	802.11an/ac (20MHz)		100 to 144	100, 116, 140, 144	OFDM	MCS0
A	802.11an/ac (40MHz)		102 to 142	102, 110, 134, 142	OFDM	MCS0
A	802.11ac (80MHz)		106 to 138	106, 138	OFDM	MCS0
A	802.11a	5745-5825	144 to 165	144,149, 157,165	OFDM	6.0
A	802.11an/ac (20MHz)		149 to 165	144,149, 157,165	OFDM	MCS0
A	802.11an/ac (40MHz)		142 to 159	142,151, 159	OFDM	MCS0
A	802.11ac (80MHz)		138 to 155	138,155	OFDM	MCS0

POWER LINE CONDUCTED EMISSION TEST:

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
A	802.11ac (20MHz)	5745-5825	149 to 165	165	OFDM	MCS0

BANDEDGE MEASUREMENT:

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
A	802.11a	5180-5240	36 to 48	36, 48	OFDM	6.0
A	802.11an/ac (20MHz)		36 to 48	36, 48	OFDM	MCS0
A	802.11an/ac (40MHz)		38 to 46	38, 46	OFDM	MCS0
A	802.11ac (80MHz)		42	42	OFDM	MCS0
A	802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	6.0
A	802.11an/ac (20MHz)		52 to 64	52, 60, 64	OFDM	MCS0
A	802.11an/ac (40MHz)		54 to 62	54, 62	OFDM	MCS0
A	802.11ac (80MHz)		58	58	OFDM	MCS0
A	802.11a	5500-5720	100 to 144	100, 116, 140, 144	OFDM	6.0
A	802.11an/ac (20MHz)		100 to 144	100, 116, 140, 144	OFDM	MCS0
A	802.11an/ac (40MHz)		102 to 142	102, 110, 134, 142	OFDM	MCS0
A	802.11ac(80MHz))		106 to 138	106, 138	OFDM	MCS0
A	802.11a	5745-5825	144 to 165	144, 149, 157,165	OFDM	6.0
A	802.11an/ac (20MHz)		144 to 165	144, 149, 157,165	OFDM	MCS0
A	802.11an/ac (40MHz)		142 to 159	142, 151, 159	OFDM	MCS0
A	802.11ac (80MHz)		138,155	138, 155	OFDM	MCS0

ANTENNA PORT CONDUCTED MEASUREMENT:

☒ This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
A	802.11a	5180-5240	36 to 48	36, 48	OFDM	6.0
A	802.11an/ac (20MHz)		36 to 48	36, 48	OFDM	MCS0
A	802.11an/ac (40MHz)		38 to 46	38, 46	OFDM	MCS0
A	802.11ac (80MHz)		42	42	OFDM	MCS0
A	802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	6.0
A	802.11an/ac (20MHz)		52 to 64	52, 60, 64	OFDM	MCS0
A	802.11an/ac (40MHz)		54 to 62	54, 62	OFDM	MCS0
A	802.11ac (80MHz)		58	58	OFDM	MCS0
A	802.11a	5500-5720	100 to 144	100, 116, 140, 144	OFDM	6.0
A	802.11an/ac (20MHz)		100 to 144	100, 116, 140, 144	OFDM	MCS0
A	802.11an/ac (40MHz)		102 to 142	102, 110, 134, 142	OFDM	MCS0
A	802.11ac (80MHz)		106 to 138	106, 138	OFDM	MCS0
A	802.11a	5745-5825	144 to 165	144, 149, 157,165	OFDM	6.0
A	802.11an/ac (20MHz)		144 to 165	144, 149, 157,165	OFDM	MCS0
A	802.11an/ac (40MHz)		142 to 159	142, 151, 159	OFDM	MCS0
A	802.11ac (80MHz)		138,155	138, 155	OFDM	MCS0

TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
RE<1G	23deg. C, 56%RH	DC 5V By Adapter	Jace Hu
RE≥1G	23deg. C, 56%RH	DC 5V By Adapter	Jace Hu
PLC	25deg. C, 52%RH	DC 5V By Adapter	James Fu
APCM	25deg. C, 60%RH	DC 3.7V By Battery	James Fu

2.3 DUTY CYCLE OF TEST SIGNAL

Please Refer to Appendix A Of this test report.

WORST-CASE DATA:

Measured Duty Cycle		
Mode		Duty Cycle [%]
		ANT1
5GHZ	11a	98.57
	11n20	98.47
	11n40	96.94
	11ac20	98.48
	11ac40	96.97
	11ac80	94.00

Note:
Duty cycle of test signal is < 98%, duty factor shall be considered.

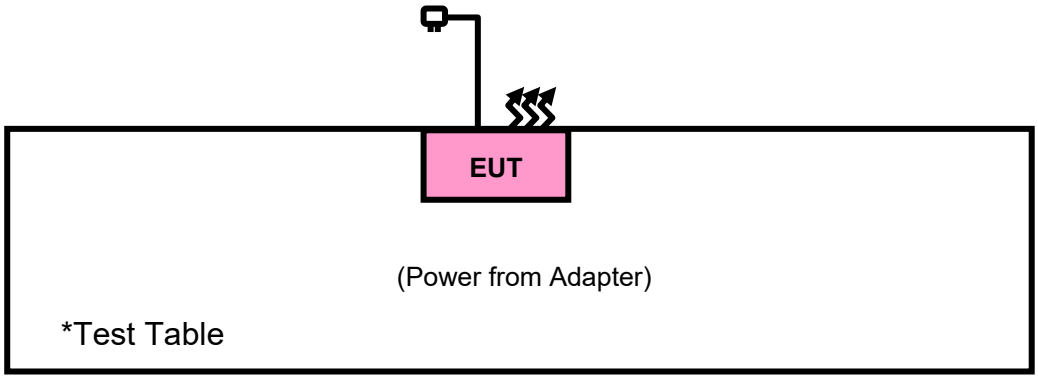
2.4 DESCRIPTION OF SUPPORT UNITS

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

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	Desktop	Lenovo	M73 SFF	PC04GRQV	N/A
2	Desktop	Lenovo	M73 SFF	PC06CS27	N/A
3	Laptop	Lenovo	Thnikpad L440	R90FTFKN	N/A
4	DC source	Kikusui/JP	PMX18-5A	0000001	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	AC Line: Unshielded, Detachable 1.5m
2	AC Line: Unshielded, Detachable 1.5m
3	AC Line: Unshielded, Detachable 1.5m
4	DC Line: Unshielded, Detachable 1.0m

2.4.1 CONFIGURATION OF SYSTEM UNDER TEST



2.5 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC Part 15, Subpart E (15.407)
KDB 789033 D02 General U-NII Test Procedures New Rules v02r01
ANSI C63.10-2013

All test items have been performed and recorded as per the above standards.

NOTE: The EUT is also considered as a kind of computer peripheral, because the connection to computer is necessary for typical use. It has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (Certification). The test report has been issued separately.

3 TEST TYPES AND RESULTS

3.1 RADIATED EMISSION AND BANDEDGE MEASUREMENT

3.1.1 LIMITS OF RADIATED EMISSION AND BANDEDGE MEASUREMENT

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table:

FREQUENCIES (MHz)	FIELD STRENGTH (microvolts/meter)	MEASUREMENT DISTANCE (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

NOTE:

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 1000MHz, 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 20dB under any condition of modulation.

3.1.2 LIMITS OF UNWANTED EMISSION

<table>
<tr><td rowspan="2">RESTRICTED BANDS</td><td>APPLICABLE TO</td><td colspan="2">LIMIT</td></tr>
<tr><td rowspan="2">789033 D02 General UNII Test Procedures New Rules v02r01</td><td colspan="2">FIELD STRENGTH AT 3m (dBµV/m)</td></tr>
<tr><td>PK : 74</td><td>AV : 54</td></tr>
<tr><td rowspan="5">OUT OF THE RESTRICTED BANDS</td><td>APPLICABLE TO</td><td>EIRP LIMIT (dBm/MHz)</td><td>EQUIVALENT FIELD STRENGTH AT 3m (dBµV/m)</td></tr>
<tr><td>15.407(b)(1)</td><td rowspan="3">PK : -27</td><td rowspan="3">PK : 68.2</td></tr>
<tr><td>15.407(b)(2)</td></tr>
<tr><td>15.407(b)(3)</td></tr>
<tr><td>15.407(b)(4)</td><td colspan="2">See note 2 (FCC 16-24)</td></tr>
</table>

NOTE: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000\sqrt{30P}}{3}$$ μV/m, where P is the eirp (Watts).

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

3.1.3 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
3m Semi-anechoic Chamber	ETS-LINDGREN	9m*6m*6m	Euroshieldpn-CT0001143-1216	May. 19,20	May. 18,23
Bilog Antenna	ETS-LINDGREN	3143B	00161965	Mar. 06,22	Mar. 05,23
Horn Antenna	ETS-LINDGREN	3117	00168692	Mar. 06,22	Mar. 05,23
Horn Antenna (18GHz-40GHz)	N/A	QWH-SL-18-40-K-SG/QMS-00361	15433	Aug. 24, 22	Aug. 23, 23
Test Software	E3	V 9.160323	N/A	N/A	N/A
Test Software	JS1120-3	3.2.06	N/A	N/A	N/A
10dB Attenuator	JFW/USA	50HF-010-SMA	1505	Jun. 02,22	Jun. 01,23
MXE EMI Receiver	KEYSIGHT	N9038A-544	MY54450026	Feb. 21,22	Feb. 20,23
Signal Pre-Amplifier	EMSI	EMC 9135	980249	May.12,22	May.11,23
Signal Pre-Amplifier	EMSI	EMC 012645B	980257	May.12,22	May.11,23
Signal Pre-Amplifier	EMSI	EMC 184045B	980259	Feb. 21,22	Feb.20,23
DC Source	Kikusui/JP	PMX18-5A	0000001	Aug. 24,22	Aug. 23,23
Power Meter	Anritsu	ML2495A	1506002	Feb. 22,22	Feb. 21,23
Power Sensor	Anritsu	MA2411B	1339352	May. 06,22	May. 05,23
Loop Antenna	Schwarzbeck	FMZB 1519B	00173	Sep. 04,22	Sep. 03,23

NOTE: 1. The calibration interval of the above test instruments is 12 months or 36 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

2. The test was performed in 3m Chamber.

3. The FCC Site Registration No. is 525120; The Designation No. is CN1171.

3.1.4 TEST PROCEDURES

a. The EUT was placed on the top of a rotating table 0.8 meters (for below 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

NOTE:

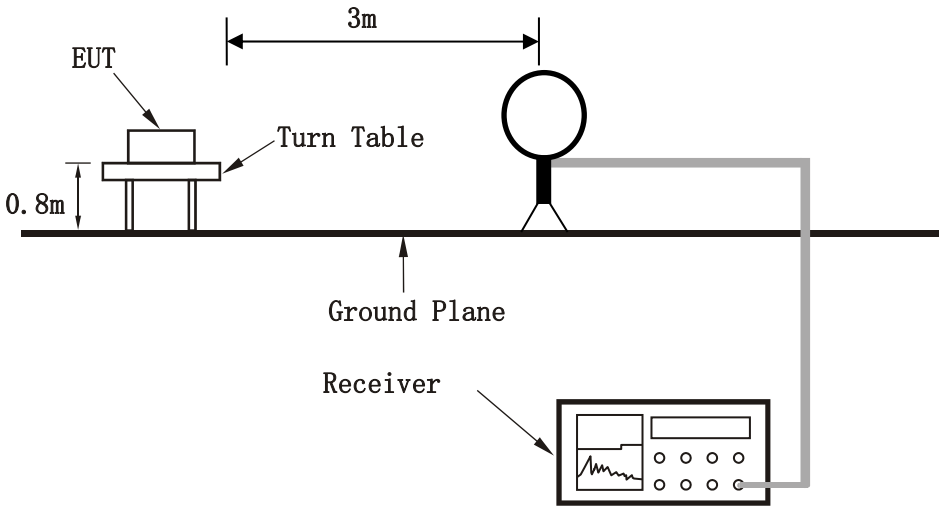
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency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

3.1.5 DEVIATION FROM TEST STANDARD

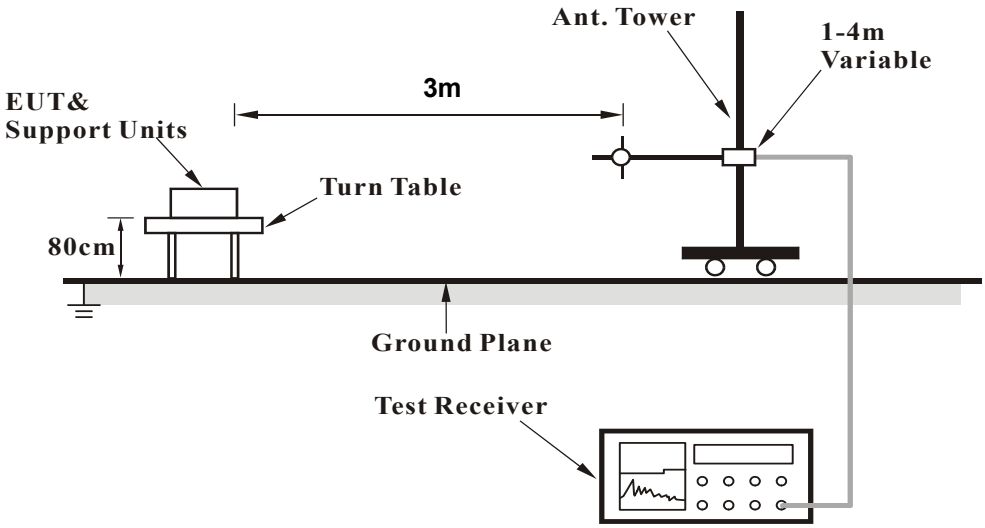
No deviation.

3.1.6 TEST SETUP

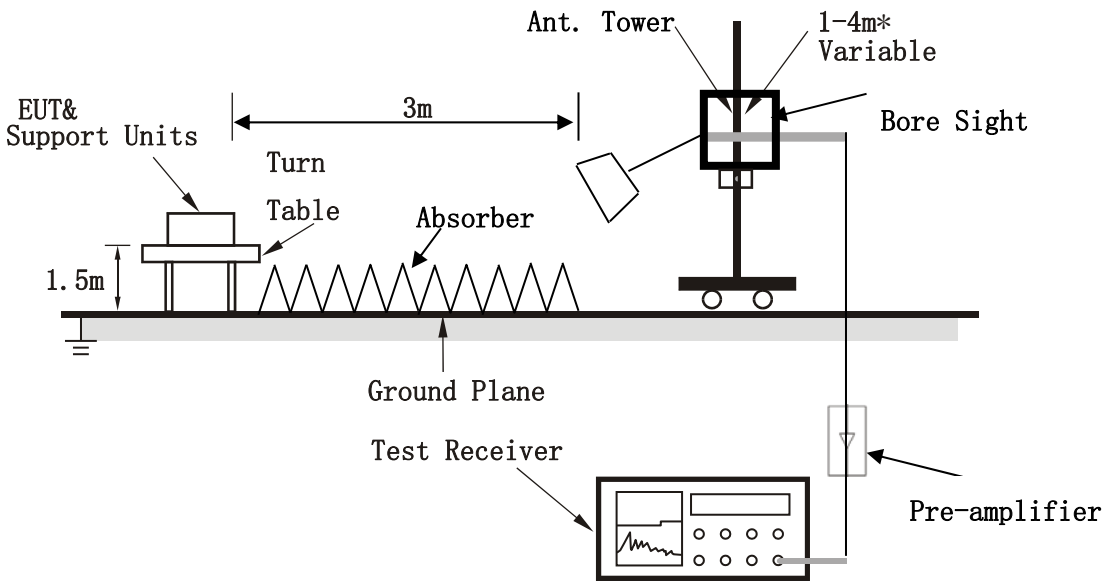
<Frequency Range 9KHz~30MHz >



< Frequency Range 30MHz~1GHz >



<Frequency Range above 1GHz>



Note: Above 1G is a directional antenna

Depends on the EUT height and the antenna 3dB beamwidth both, refer to section 7.3 of CISPR 16-2-3.

For the actual test configuration, please refer to the attached file (Test Setup Photo).

3.1.7 EUT OPERATING CONDITION

a. Set the EUT under full load condition and placed them on a testing table.

b. Set the transmitter part of EUT under transmission condition continuously at specific channel frequency.

c. The necessary accessories enable the EUT in full functions.

3.1.8 TEST RESULTS

NOTE ： The 9K~30MHz amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required in the report.

30 MHz – 1GHz data:

Band 4

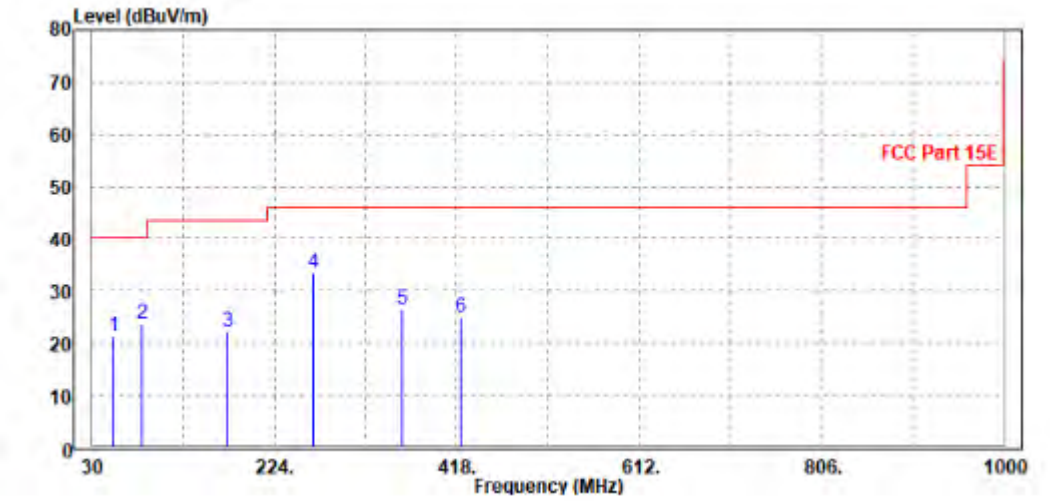
802.11ac (20MHz)

CHANNEL	TX Channel 165	**DETECTOR FUNCTION**	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
52.31	21.22	47.83	40	-18.78	9.97	0.41	36.99	151	127	QP
83.35	23.66	52.02	40	-16.34	8.1	0.5	36.96	100	10	QP
174.53	22.28	46.75	43.5	-21.22	11.26	0.7	36.43	115	75	QP
264.74	33.45	55.21	46	-12.55	13.65	0.86	36.27	180	15	QP
359.8	26.52	46.55	46	-19.48	15.32	1.01	36.36	128	24	QP
422.85	25.08	43.81	46	-20.92	16.63	1.11	36.47	186	344	QP

REMARKS:

1. Emission level (dBuV/m) = Read level (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.

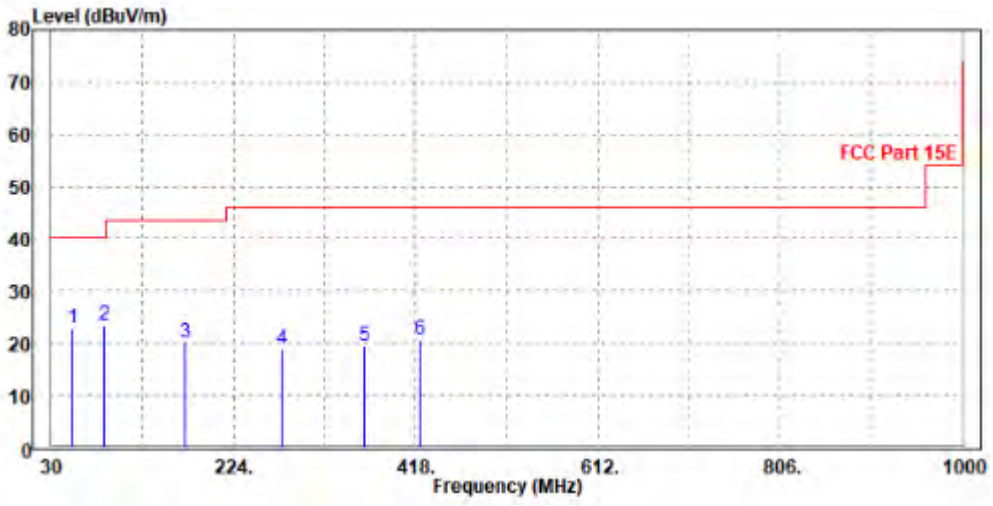


CHANNEL	Channel 165	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
52.31	22.71	49.84	40	-17.29	9.45	0.41	36.99	109	1	QP
86.26	23.49	51.7	40	-16.51	8.23	0.5	36.94	109	252	QP
172.59	20.22	44.88	43.5	-23.28	11.09	0.69	36.44	115	185	QP
275.41	19	41.09	46	-27	13.31	0.87	36.27	101	241	QP
362.71	19.54	39.45	46	-26.46	15.44	1.01	36.36	134	181	QP
422.85	20.75	39.51	46	-25.25	16.6	1.11	36.47	105	295	QP

REMARKS:

1. Emission level (dBuV/m) = Read level (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.



ABOVE 1GHz WORST-CASE DATA:

Note: For higher frequency, the emission is too low to be detected.

Band 1

802.11a

CHANNEL	TX Channel 36	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.55	56.62	74	-18.45	34.52	9.92	45.51	100	50	Peak
5150	50.53	51.6	54	-3.47	34.52	9.92	45.51	100	50	Average
5180	103.26	104.32	/	/	34.54	9.91	45.51	100	50	Peak
5180	96.9	97.96	/	/	34.54	9.91	45.51	100	50	Average
5350	54.43	55.41	74	-19.57	34.68	9.85	45.51	100	50	Peak
5350	47.69	48.67	54	-6.31	34.68	9.85	45.51	100	50	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.64	56.63	74	-18.36	34.6	9.92	45.51	100	12	Peak
5150	49.94	50.93	54	-4.06	34.6	9.92	45.51	100	12	Average
5180	102.09	103.09	/	/	34.6	9.91	45.51	100	12	Peak
5180	95.85	96.85	/	/	34.6	9.91	45.51	100	12	Average
5350	53.91	54.97	74	-20.09	34.6	9.85	45.51	100	12	Peak
5350	47.82	48.88	54	-6.18	34.6	9.85	45.51	100	12	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5180MHz: Fundamental frequency.

CHANNEL	TX Channel 40	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	56.81	57.88	74	-17.19	34.52	9.92	45.51	100	50	Peak
5150	50.07	51.14	54	-3.93	34.52	9.92	45.51	100	50	Average
5200	103.79	104.84	/	/	34.56	9.9	45.51	100	50	Peak
5200	96.67	97.72	/	/	34.56	9.9	45.51	100	50	Average
5350	53.44	54.42	74	-20.56	34.68	9.85	45.51	100	50	Peak
5350	47.4	48.38	54	-6.6	34.68	9.85	45.51	100	50	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.91	56.9	74	-18.09	34.6	9.92	45.51	100	12	Peak
5150	49.76	50.75	54	-4.24	34.6	9.92	45.51	100	12	Average
5200	103	104.01	/	/	34.6	9.9	45.51	100	12	Peak
5200	95.89	96.9	/	/	34.6	9.9	45.51	100	12	Average
5350	53.8	54.86	74	-20.2	34.6	9.85	45.51	100	12	Peak
5350	47.71	48.77	54	-6.29	34.6	9.85	45.51	100	12	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5200MHz: Fundamental frequency.

CHANNEL	TX Channel 48	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.62	56.69	74	-18.38	34.52	9.92	45.51	100	50	Peak
5150	49.78	50.85	54	-4.22	34.52	9.92	45.51	100	50	Average
5240	104.57	105.6	/	/	34.59	9.89	45.51	100	50	Peak
5240	97.99	99.02	/	/	34.59	9.89	45.51	100	50	Average
5350	53.9	54.88	74	-20.1	34.68	9.85	45.51	100	50	Peak
5350	48.17	49.15	54	-5.83	34.68	9.85	45.51	100	50	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.15	56.14	74	-18.85	34.6	9.92	45.51	100	12	Peak
5150	49.85	50.84	54	-4.15	34.6	9.92	45.51	100	12	Average
5240	103.68	104.7	/	/	34.6	9.89	45.51	100	12	Peak
5240	96.5	97.52	/	/	34.6	9.89	45.51	100	12	Average
5350	53.78	54.84	74	-20.22	34.6	9.85	45.51	100	12	Peak
5350	47.96	49.02	54	-6.04	34.6	9.85	45.51	100	12	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5240MHz: Fundamental frequency.

802.11n (20MHz)

CHANNEL	TX Channel 36	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	57.03	58.1	74	-16.97	34.52	9.92	45.51	100	50	Peak
5150	50.16	51.23	54	-3.84	34.52	9.92	45.51	100	50	Average
5180	102.55	103.61	/	/	34.54	9.91	45.51	100	50	Peak
5180	96.13	97.19	/	/	34.54	9.91	45.51	100	50	Average
5350	53.63	54.61	74	-20.37	34.68	9.85	45.51	100	50	Peak
5350	48.26	49.24	54	-5.74	34.68	9.85	45.51	100	50	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	56.41	57.4	74	-17.59	34.6	9.92	45.51	100	12	Peak
5150	50.24	51.23	54	-3.76	34.6	9.92	45.51	100	12	Average
5180	101.31	102.31	/	/	34.6	9.91	45.51	100	12	Peak
5180	95.23	96.23	/	/	34.6	9.91	45.51	100	12	Average
5350	54.14	55.2	74	-19.86	34.6	9.85	45.51	100	12	Peak
5350	47.58	48.64	54	-6.42	34.6	9.85	45.51	100	12	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5180MHz: Fundamental frequency.

CHANNEL	TX Channel 40	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	56.54	57.61	74	-17.46	34.52	9.92	45.51	100	50	Peak
5150	49.38	50.45	54	-4.62	34.52	9.92	45.51	100	50	Average
5200	103.07	104.12	/	/	34.56	9.9	45.51	100	50	Peak
5200	96.2	97.25	/	/	34.56	9.9	45.51	100	50	Average
5350	54.72	55.7	74	-19.28	34.68	9.85	45.51	100	50	Peak
5350	47.58	48.56	54	-6.42	34.68	9.85	45.51	100	50	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.12	56.11	74	-18.88	34.6	9.92	45.51	100	12	Peak
5150	49.84	50.83	54	-4.16	34.6	9.92	45.51	100	12	Average
5200	102.66	103.67	/	/	34.6	9.9	45.51	100	12	Peak
5200	95.37	96.38	/	/	34.6	9.9	45.51	100	12	Average
5350	54.04	55.1	74	-19.96	34.6	9.85	45.51	100	12	Peak
5350	47.52	48.58	54	-6.48	34.6	9.85	45.51	100	12	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5200MHz: Fundamental frequency.

CHANNEL	TX Channel 48	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.16	56.23	74	-18.84	34.52	9.92	45.51	100	50	Peak
5150	49.53	50.6	54	-4.47	34.52	9.92	45.51	100	50	Average
5240	104.21	105.24	/	/	34.59	9.89	45.51	100	50	Peak
5240	97.34	98.37	/	/	34.59	9.89	45.51	100	50	Average
5350	53.24	54.22	74	-20.76	34.68	9.85	45.51	100	50	Peak
5350	47.57	48.55	54	-6.43	34.68	9.85	45.51	100	50	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	54.72	55.71	74	-19.28	34.6	9.92	45.51	100	12	Peak
5150	49.93	50.92	54	-4.07	34.6	9.92	45.51	100	12	Average
5240	102.6	103.62	/	/	34.6	9.89	45.51	100	12	Peak
5240	95.73	96.75	/	/	34.6	9.89	45.51	100	12	Average
5350	54.9	55.96	74	-19.1	34.6	9.85	45.51	100	12	Peak
5350	47.58	48.64	54	-6.42	34.6	9.85	45.51	100	12	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5240MHz: Fundamental frequency.

802.11n (40MHz)

CHANNEL	TX Channel 38	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	57.43	58.5	74	-16.57	34.52	9.92	45.51	100	50	Peak
5150	50.94	52.01	54	-3.06	34.52	9.92	45.51	100	50	Average
5190	96.89	97.94	/	/	34.55	9.91	45.51	100	50	Peak
5190	90.93	91.98	/	/	34.55	9.91	45.51	100	50	Average
5350	53.6	54.58	74	-20.4	34.68	9.85	45.51	100	50	Peak
5350	47.49	48.47	54	-6.51	34.68	9.85	45.51	100	50	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	56.26	57.25	74	-17.74	34.6	9.92	45.51	100	12	Peak
5150	50.7	51.69	54	-3.3	34.6	9.92	45.51	100	12	Average
5190	96.84	97.84	/	/	34.6	9.91	45.51	100	12	Peak
5190	90.17	91.17	/	/	34.6	9.91	45.51	100	12	Average
5350	54.56	55.62	74	-19.44	34.6	9.85	45.51	100	12	Peak
5350	47.54	48.6	54	-6.46	34.6	9.85	45.51	100	12	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5190MHz: Fundamental frequency.

CHANNEL	TX Channel 46	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.9	56.97	74	-18.1	34.52	9.92	45.51	100	50	Peak
5150	49.44	50.51	54	-4.56	34.52	9.92	45.51	100	50	Average
5230	100.03	101.07	/	/	34.58	9.89	45.51	100	50	Peak
5230	94.34	95.38	/	/	34.58	9.89	45.51	100	50	Average
5350	55.62	56.6	74	-18.38	34.68	9.85	45.51	100	50	Peak
5350	47.37	48.35	54	-6.63	34.68	9.85	45.51	100	50	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.65	56.64	74	-18.35	34.6	9.92	45.51	100	12	Peak
5150	49.42	50.41	54	-4.58	34.6	9.92	45.51	100	12	Average
5230	99.22	100.24	/	/	34.6	9.89	45.51	100	12	Peak
5230	93.36	94.38	/	/	34.6	9.89	45.51	100	12	Average
5350	53.4	54.46	74	-20.6	34.6	9.85	45.51	100	12	Peak
5350	47.45	48.51	54	-6.55	34.6	9.85	45.51	100	12	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5230MHz: Fundamental frequency.

802.11ac (20MHz)

CHANNEL	TX Channel 36	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.16	56.23	74	-18.84	34.52	9.92	45.51	100	50	Peak
5150	50.13	51.2	54	-3.87	34.52	9.92	45.51	100	50	Average
5180	102.79	103.85	/	/	34.54	9.91	45.51	100	50	Peak
5180	95.7	96.76	/	/	34.54	9.91	45.51	100	50	Average
5350	55.14	56.12	74	-18.86	34.68	9.85	45.51	100	50	Peak
5350	47.5	48.48	54	-6.5	34.68	9.85	45.51	100	50	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.48	56.47	74	-18.52	34.6	9.92	45.51	100	12	Peak
5150	49.48	50.47	54	-4.52	34.6	9.92	45.51	100	12	Average
5180	101.56	102.56	/	/	34.6	9.91	45.51	100	12	Peak
5180	94.63	95.63	/	/	34.6	9.91	45.51	100	12	Average
5350	54.91	55.97	74	-19.09	34.6	9.85	45.51	100	12	Peak
5350	47.36	48.42	54	-6.64	34.6	9.85	45.51	100	12	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5180MHz: Fundamental frequency.

CHANNEL	TX Channel 40	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	56.74	57.81	74	-17.26	34.52	9.92	45.51	100	50	Peak
5150	50.08	51.15	54	-3.92	34.52	9.92	45.51	100	50	Average
5200	103.35	104.4	/	/	34.56	9.9	45.51	100	50	Peak
5200	94.95	96	/	/	34.56	9.9	45.51	100	50	Average
5350	55.74	56.72	74	-18.26	34.68	9.85	45.51	100	50	Peak
5350	47.41	48.39	54	-6.59	34.68	9.85	45.51	100	50	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	56.24	57.23	74	-17.76	34.6	9.92	45.51	100	12	Peak
5150	49.15	50.14	54	-4.85	34.6	9.92	45.51	100	12	Average
5200	102.29	103.3	/	/	34.6	9.9	45.51	100	12	Peak
5200	95.56	96.57	/	/	34.6	9.9	45.51	100	12	Average
5350	53.73	54.79	74	-20.27	34.6	9.85	45.51	100	12	Peak
5350	46.94	48	54	-7.06	34.6	9.85	45.51	100	12	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5200MHz: Fundamental frequency.

CHANNEL	TX Channel 48	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	56.12	57.19	74	-17.88	34.52	9.92	45.51	100	50	Peak
5150	50.27	51.34	54	-3.73	34.52	9.92	45.51	100	50	Average
5240	104.35	105.38	/	/	34.59	9.89	45.51	100	50	Peak
5240	97.34	98.37	/	/	34.59	9.89	45.51	100	50	Average
5350	54.16	55.14	74	-19.84	34.68	9.85	45.51	100	50	Peak
5350	48.46	49.44	54	-5.54	34.68	9.85	45.51	100	50	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.07	56.06	74	-18.93	34.6	9.92	45.51	100	12	Peak
5150	49.33	50.32	54	-4.67	34.6	9.92	45.51	100	12	Average
5240	102.68	103.7	/	/	34.6	9.89	45.51	100	12	Peak
5240	95.84	96.86	/	/	34.6	9.89	45.51	100	12	Average
5350	55.61	56.67	74	-18.39	34.6	9.85	45.51	100	12	Peak
5350	47.37	48.43	54	-6.63	34.6	9.85	45.51	100	12	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5240MHz: Fundamental frequency.

802.11ac (40MHz)

CHANNEL	TX Channel 38	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	58.1	59.17	74	-15.9	34.52	9.92	45.51	100	50	Peak
5150	50.91	51.98	54	-3.09	34.52	9.92	45.51	100	50	Average
5190	97.14	98.19	/	/	34.55	9.91	45.51	100	50	Peak
5190	90.99	92.04	/	/	34.55	9.91	45.51	100	50	Average
5350	53.83	54.81	74	-20.17	34.68	9.85	45.51	100	50	Peak
5350	47.3	48.28	54	-6.7	34.68	9.85	45.51	100	50	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	57.41	58.4	74	-16.59	34.6	9.92	45.51	100	12	Peak
5150	50.44	51.43	54	-3.56	34.6	9.92	45.51	100	12	Average
5190	96.48	97.48	/	/	34.6	9.91	45.51	100	12	Peak
5190	90.28	91.28	/	/	34.6	9.91	45.51	100	12	Average
5350	53.28	54.34	74	-20.72	34.6	9.85	45.51	100	12	Peak
5350	47.23	48.29	54	-6.77	34.6	9.85	45.51	100	12	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5190MHz: Fundamental frequency.

CHANNEL	TX Channel 46	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.4	56.47	74	-18.6	34.52	9.92	45.51	100	50	Peak
5150	49.27	50.34	54	-4.73	34.52	9.92	45.51	100	50	Average
5230	100.05	101.09	/	/	34.58	9.89	45.51	100	50	Peak
5230	94.22	95.26	/	/	34.58	9.89	45.51	100	50	Average
5350	53.85	54.83	74	-20.15	34.68	9.85	45.51	100	50	Peak
5350	47.35	48.33	54	-6.65	34.68	9.85	45.51	100	50	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	57.03	58.02	74	-16.97	34.6	9.92	45.51	100	12	Peak
5150	49.72	50.71	54	-4.28	34.6	9.92	45.51	100	12	Average
5230	98.98	100	/	/	34.6	9.89	45.51	100	12	Peak
5230	93.34	94.36	/	/	34.6	9.89	45.51	100	12	Average
5350	55.25	56.31	74	-18.75	34.6	9.85	45.51	100	12	Peak
5350	49.44	50.5	54	-4.56	34.6	9.85	45.51	100	12	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5230MHz: Fundamental frequency.

802.11ac (80MHz)

CHANNEL	TX Channel 42	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	57.77	58.84	74	-16.23	34.52	9.92	45.51	100	50	Peak
5150	50.86	51.93	54	-3.14	34.52	9.92	45.51	100	50	Average
5210	93.13	94.17	/	/	34.57	9.9	45.51	100	50	Peak
5210	87.77	88.81	/	/	34.57	9.9	45.51	100	50	Average
5350	53.63	54.61	74	-20.37	34.68	9.85	45.51	100	50	Peak
5350	47.64	48.62	54	-6.36	34.68	9.85	45.51	100	50	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.82	56.81	74	-18.18	34.6	9.92	45.51	100	12	Peak
5150	50.41	51.4	54	-3.59	34.6	9.92	45.51	100	12	Average
5210	92.78	93.79	/	/	34.6	9.9	45.51	100	12	Peak
5210	87.31	88.32	/	/	34.6	9.9	45.51	100	12	Average
5350	54.22	55.28	74	-19.78	34.6	9.85	45.51	100	12	Peak
5350	47.31	48.37	54	-6.69	34.6	9.85	45.51	100	12	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5210MHz: Fundamental frequency.

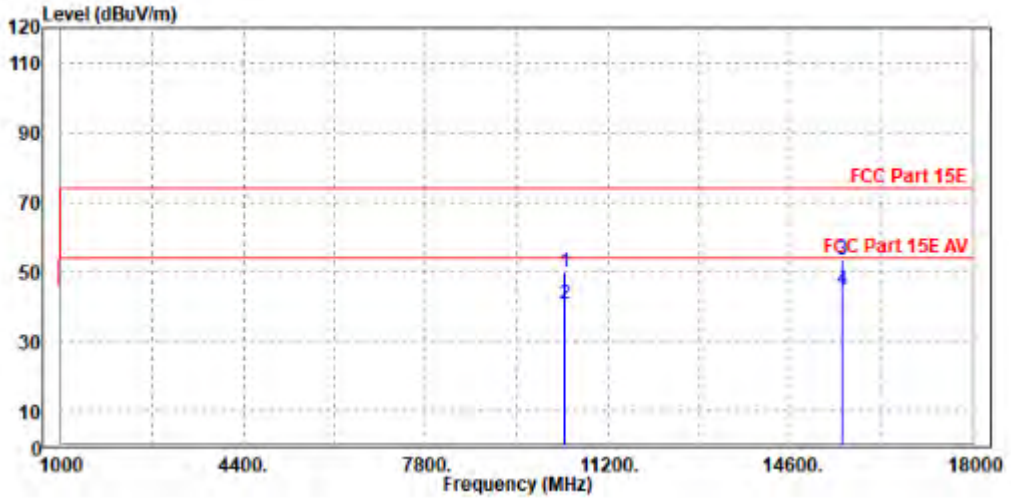
Worst case harmonic:

802.11n (40MHz)

CHANNEL	TX Channel 38	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

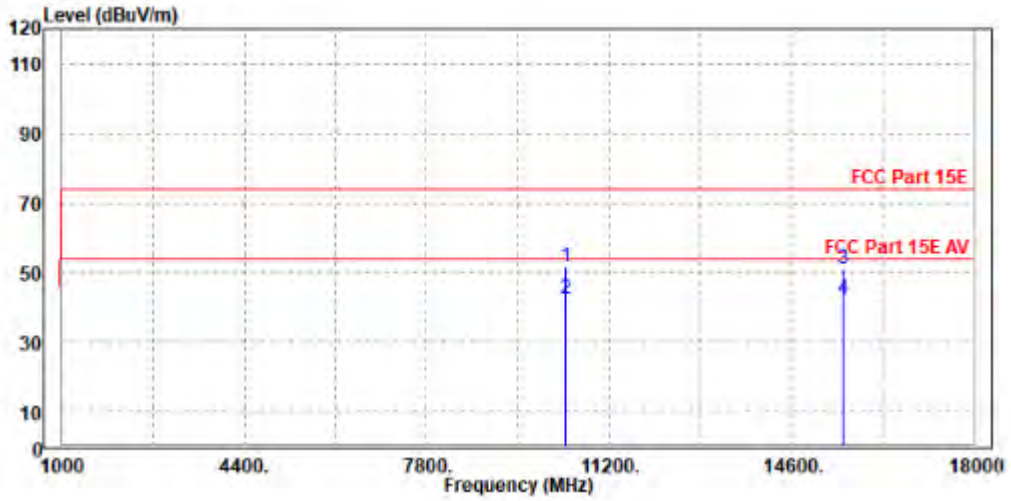
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1	10380.000	49.56	42.68	74.00	-24.44	6.88	Peak	Horizontal
2	10380.000	40.52	33.64	54.00	-13.48	6.88	Average	Horizontal
3	PK15569.000	53.43	40.58	74.00	-20.57	12.85	Peak	Horizontal
4	PP15569.000	44.78	31.93	54.00	-9.22	12.85	Average	Horizontal



ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1	PK10384.000	51.40	43.37	74.00	-22.60	8.03	Peak	Vertical
2	PP10384.000	42.61	34.58	54.00	-11.39	8.03	Average	Vertical
3	15570.000	50.94	39.08	74.00	-23.06	11.86	Peak	Vertical
4	15570.000	42.41	30.55	54.00	-11.59	11.86	Average	Vertical



REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5190MHz: Fundamental frequency.
3. For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.

Band 2

802.11a

CHANNEL	TX Channel 52	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	56.41	57.48	74	-17.59	34.52	9.92	45.51	100	50	Peak
5150	49.6	50.67	54	-4.4	34.52	9.92	45.51	100	50	Average
5260	104.76	105.78	/	/	34.61	9.88	45.51	100	50	Peak
5260	96.99	98.01	/	/	34.61	9.88	45.51	100	50	Average
5350	54.17	55.15	74	-19.83	34.68	9.85	45.51	100	50	Peak
5350	48.32	49.3	54	-5.68	34.68	9.85	45.51	100	50	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.15	56.14	74	-18.85	34.6	9.92	45.51	100	12	Peak
5150	49.79	50.78	54	-4.21	34.6	9.92	45.51	100	12	Average
5260	103.57	104.6	/	/	34.6	9.88	45.51	100	12	Peak
5260	96.37	97.4	/	/	34.6	9.88	45.51	100	12	Average
5350	53.2	54.26	74	-20.8	34.6	9.85	45.51	100	12	Peak
5350	47.77	48.83	54	-6.23	34.6	9.85	45.51	100	12	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5260MHz: Fundamental frequency.

CHANNEL	TX Channel 60	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.07	56.14	74	-18.93	34.52	9.92	45.51	100	50	Peak
5150	49.95	51.02	54	-4.05	34.52	9.92	45.51	100	50	Average
5300	103.23	104.23	/	/	34.64	9.87	45.51	100	50	Peak
5300	96.81	97.81	/	/	34.64	9.87	45.51	100	50	Average
5350	53.94	54.92	74	-20.06	34.68	9.85	45.51	100	50	Peak
5350	48.61	49.59	54	-5.39	34.68	9.85	45.51	100	50	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	57.38	58.37	74	-16.62	34.6	9.92	45.51	100	12	Peak
5150	49.44	50.43	54	-4.56	34.6	9.92	45.51	100	12	Average
5300	102.35	103.39	/	/	34.6	9.87	45.51	100	12	Peak
5300	95.86	96.9	/	/	34.6	9.87	45.51	100	12	Average
5350	53.32	54.38	74	-20.68	34.6	9.85	45.51	100	12	Peak
5350	47.95	49.01	54	-6.05	34.6	9.85	45.51	100	12	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5300MHz: Fundamental frequency.

CHANNEL	TX Channel 64	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.28	56.35	74	-18.72	34.52	9.92	45.51	100	50	Peak
5150	49.78	50.85	54	-4.22	34.52	9.92	45.51	100	50	Average
5320	102.47	103.46	/	/	34.66	9.86	45.51	100	50	Peak
5320	95.57	96.56	/	/	34.66	9.86	45.51	100	50	Average
5350	55.24	56.22	74	-18.76	34.68	9.85	45.51	100	50	Peak
5350	47.87	48.85	54	-6.13	34.68	9.85	45.51	100	50	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	57.8	58.79	74	-16.2	34.6	9.92	45.51	100	12	Peak
5150	50.03	51.02	54	-3.97	34.6	9.92	45.51	100	12	Average
5320	103.23	104.28	/	/	34.6	9.86	45.51	100	12	Peak
5320	95.68	96.73	/	/	34.6	9.86	45.51	100	12	Average
5350	53.49	54.55	74	-20.51	34.6	9.85	45.51	100	12	Peak
5350	47.63	48.69	54	-6.37	34.6	9.85	45.51	100	12	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5320MHz: Fundamental frequency.

802.11n (20MHz)

CHANNEL	TX Channel 52	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	56.04	57.11	74	-17.96	34.52	9.92	45.51	100	50	Peak
5150	49.31	50.38	54	-4.69	34.52	9.92	45.51	100	50	Average
5260	103.19	104.21	/	/	34.61	9.88	45.51	100	50	Peak
5260	96.75	97.77	/	/	34.61	9.88	45.51	100	50	Average
5350	53.98	54.96	74	-20.02	34.68	9.85	45.51	100	50	Peak
5350	48.32	49.3	54	-5.68	34.68	9.85	45.51	100	50	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.23	56.22	74	-18.77	34.6	9.92	45.51	100	12	Peak
5150	49.82	50.81	54	-4.18	34.6	9.92	45.51	100	12	Average
5260	102.45	103.48	/	/	34.6	9.88	45.51	100	12	Peak
5260	95.87	96.9	/	/	34.6	9.88	45.51	100	12	Average
5350	53.98	55.04	74	-20.02	34.6	9.85	45.51	100	12	Peak
5350	47.48	48.54	54	-6.52	34.6	9.85	45.51	100	12	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5260MHz: Fundamental frequency.

CHANNEL	TX Channel 60	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.42	56.49	74	-18.58	34.52	9.92	45.51	100	50	Peak
5150	49.3	50.37	54	-4.7	34.52	9.92	45.51	100	50	Average
5300	103.09	104.09	/	/	34.64	9.87	45.51	100	50	Peak
5300	96.59	97.59	/	/	34.64	9.87	45.51	100	50	Average
5350	54.5	55.48	74	-19.5	34.68	9.85	45.51	100	50	Peak
5350	47.92	48.9	54	-6.08	34.68	9.85	45.51	100	50	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	56.81	57.8	74	-17.19	34.6	9.92	45.51	100	12	Peak
5150	49.75	50.74	54	-4.25	34.6	9.92	45.51	100	12	Average
5300	101.76	102.8	/	/	34.6	9.87	45.51	100	12	Peak
5300	95.7	96.74	/	/	34.6	9.87	45.51	100	12	Average
5350	54.78	55.84	74	-19.22	34.6	9.85	45.51	100	12	Peak
5350	48.56	49.62	54	-5.44	34.6	9.85	45.51	100	12	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5300MHz: Fundamental frequency.

CHANNEL	TX Channel 64	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.41	56.48	74	-18.59	34.52	9.92	45.51	100	50	Peak
5150	49.44	50.51	54	-4.56	34.52	9.92	45.51	100	50	Average
5320	101.54	102.53	/	/	34.66	9.86	45.51	100	50	Peak
5320	95.45	96.44	/	/	34.66	9.86	45.51	100	50	Average
5350	53.84	54.82	74	-20.16	34.68	9.85	45.51	100	50	Peak
5350	48	48.98	54	-6	34.68	9.85	45.51	100	50	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	54.75	55.74	74	-19.25	34.6	9.92	45.51	100	12	Peak
5150	49.69	50.68	54	-4.31	34.6	9.92	45.51	100	12	Average
5320	101.62	102.67	/	/	34.6	9.86	45.51	100	12	Peak
5320	95.28	96.33	/	/	34.6	9.86	45.51	100	12	Average
5350	55.51	56.57	74	-18.49	34.6	9.85	45.51	100	12	Peak
5350	47.79	48.85	54	-6.21	34.6	9.85	45.51	100	12	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5320MHz: Fundamental frequency.

802.11n (40MHz)

CHANNEL	TX Channel 54	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	54.5	55.57	74	-19.5	34.52	9.92	45.51	100	50	Peak
5150	49.79	50.86	54	-4.21	34.52	9.92	45.51	100	50	Average
5270	100.14	101.15	/	/	34.62	9.88	45.51	100	50	Peak
5270	93.95	94.96	/	/	34.62	9.88	45.51	100	50	Average
5350	55.32	56.3	74	-18.68	34.68	9.85	45.51	100	50	Peak
5350	48.72	49.7	54	-5.28	34.68	9.85	45.51	100	50	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	56.53	57.52	74	-17.47	34.6	9.92	45.51	100	12	Peak
5150	49.79	50.78	54	-4.21	34.6	9.92	45.51	100	12	Average
5270	99.68	100.71	/	/	34.6	9.88	45.51	100	12	Peak
5270	91.12	92.15	/	/	34.6	9.88	45.51	100	12	Average
5350	55.53	56.59	74	-18.47	34.6	9.85	45.51	100	12	Peak
5350	48.23	49.29	54	-5.77	34.6	9.85	45.51	100	12	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5270MHz: Fundamental frequency.

CHANNEL	TX Channel 62	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	54.52	55.59	74	-19.48	34.52	9.92	45.51	100	50	Peak
5150	49.34	50.41	54	-4.66	34.52	9.92	45.51	100	50	Average
5310	96.37	97.37	/	/	34.65	9.86	45.51	100	50	Peak
5310	91.63	92.63	/	/	34.65	9.86	45.51	100	50	Average
5350	54.44	55.42	74	-19.56	34.68	9.85	45.51	100	50	Peak
5350	50.87	51.85	54	-3.13	34.68	9.85	45.51	100	50	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	54.83	55.82	74	-19.17	34.6	9.92	45.51	100	12	Peak
5150	49.03	50.02	54	-4.97	34.6	9.92	45.51	100	12	Average
5310	95.14	96.19	/	/	34.6	9.86	45.51	100	12	Peak
5310	91.22	92.27	/	/	34.6	9.86	45.51	100	12	Average
5350	56.24	57.3	74	-17.76	34.6	9.85	45.51	100	12	Peak
5350	50.48	51.54	54	-3.52	34.6	9.85	45.51	100	12	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5310MHz: Fundamental frequency.

802.11ac (20MHz)

CHANNEL	TX Channel 52	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.72	56.79	74	-18.28	34.52	9.92	45.51	100	50	Peak
5150	50.38	51.45	54	-3.62	34.52	9.92	45.51	100	50	Average
5260	104.23	105.25	/	/	34.61	9.88	45.51	100	50	Peak
5260	98.24	99.26	/	/	34.61	9.88	45.51	100	50	Average
5350	53.66	54.64	74	-20.34	34.68	9.85	45.51	100	50	Peak
5350	48.53	49.51	54	-5.47	34.68	9.85	45.51	100	50	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.52	56.51	74	-18.48	34.6	9.92	45.51	100	12	Peak
5150	49.75	50.74	54	-4.25	34.6	9.92	45.51	100	12	Average
5260	100.78	101.81	/	/	34.6	9.88	45.51	100	12	Peak
5260	95.38	96.41	/	/	34.6	9.88	45.51	100	12	Average
5350	54.13	55.19	74	-19.87	34.6	9.85	45.51	100	12	Peak
5350	48.53	49.59	54	-5.47	34.6	9.85	45.51	100	12	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5260MHz: Fundamental frequency.

CHANNEL	TX Channel 60	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	54.94	56.01	74	-19.06	34.52	9.92	45.51	100	50	Peak
5150	49.49	50.56	54	-4.51	34.52	9.92	45.51	100	50	Average
5300	103.67	104.67	/	/	34.64	9.87	45.51	100	50	Peak
5300	97.53	98.53	/	/	34.64	9.87	45.51	100	50	Average
5350	53.63	54.61	74	-20.37	34.68	9.85	45.51	100	50	Peak
5350	48.73	49.71	54	-5.27	34.68	9.85	45.51	100	50	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.76	56.75	74	-18.24	34.6	9.92	45.51	100	12	Peak
5150	49.49	50.48	54	-4.51	34.6	9.92	45.51	100	12	Average
5300	100.87	101.91	/	/	34.6	9.87	45.51	100	12	Peak
5300	94.15	95.19	/	/	34.6	9.87	45.51	100	12	Average
5350	54.73	55.79	74	-19.27	34.6	9.85	45.51	100	12	Peak
5350	47.22	48.28	54	-6.78	34.6	9.85	45.51	100	12	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5300MHz: Fundamental frequency.

CHANNEL	TX Channel 64	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	53.58	54.65	74	-20.42	34.52	9.92	45.51	100	50	Peak
5150	48.7	49.77	54	-5.3	34.52	9.92	45.51	100	50	Average
5320	102.4	103.39	/	/	34.66	9.86	45.51	100	50	Peak
5320	95.67	96.66	/	/	34.66	9.86	45.51	100	50	Average
5350	54.38	55.36	74	-19.62	34.68	9.85	45.51	100	50	Peak
5350	47.54	48.52	54	-6.46	34.68	9.85	45.51	100	50	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.04	56.03	74	-18.96	34.6	9.92	45.51	100	12	Peak
5150	49.11	50.1	54	-4.89	34.6	9.92	45.51	100	12	Average
5320	101.26	102.31	/	/	34.6	9.86	45.51	100	12	Peak
5320	95.35	96.4	/	/	34.6	9.86	45.51	100	12	Average
5350	54.11	55.17	74	-19.89	34.6	9.85	45.51	100	12	Peak
5350	47.95	49.01	54	-6.05	34.6	9.85	45.51	100	12	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5320MHz: Fundamental frequency.

802.11ac (40MHz)

CHANNEL	TX Channel 54	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	53.33	54.4	74	-20.67	34.52	9.92	45.51	100	50	Peak
5150	49.75	50.82	54	-4.25	34.52	9.92	45.51	100	50	Average
5270	99.62	100.63	/	/	34.62	9.88	45.51	100	50	Peak
5270	93.57	94.58	/	/	34.62	9.88	45.51	100	50	Average
5350	54.54	55.52	74	-19.46	34.68	9.85	45.51	100	50	Peak
5350	48.15	49.13	54	-5.85	34.68	9.85	45.51	100	50	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.03	56.02	74	-18.97	34.6	9.92	45.51	100	15	Peak
5150	49.59	50.58	54	-4.41	34.6	9.92	45.51	100	15	Average
5270	98.33	99.36	/	/	34.6	9.88	45.51	100	15	Peak
5270	93.1	94.13	/	/	34.6	9.88	45.51	100	15	Average
5350	53.26	54.32	74	-20.74	34.6	9.85	45.51	100	15	Peak
5350	47.63	48.69	54	-6.37	34.6	9.85	45.51	100	15	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5270MHz: Fundamental frequency.

CHANNEL	TX Channel 62	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	53.88	54.95	74	-20.12	34.52	9.92	45.51	100	50	Peak
5150	49.65	50.72	54	-4.35	34.52	9.92	45.51	100	50	Average
5310	96.72	97.72	/	/	34.65	9.86	45.51	100	50	Peak
5310	91.55	92.55	/	/	34.65	9.86	45.51	100	50	Average
5350	54.24	55.22	74	-19.76	34.68	9.85	45.51	100	50	Peak
5350	50.59	51.57	54	-3.41	34.68	9.85	45.51	100	50	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.63	56.62	74	-18.37	34.6	9.92	45.51	100	15	Peak
5150	49.4	50.39	54	-4.6	34.6	9.92	45.51	100	15	Average
5310	95.76	96.81	/	/	34.6	9.86	45.51	100	15	Peak
5310	91	92.05	/	/	34.6	9.86	45.51	100	15	Average
5350	55.18	56.24	74	-18.82	34.6	9.85	45.51	100	15	Peak
5350	49.51	50.57	54	-4.49	34.6	9.85	45.51	100	15	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5310MHz: Fundamental frequency.

802.11ac (80MHz)

CHANNEL	TX Channel 58	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	53.04	54.11	74	-20.96	34.52	9.92	45.51	100	50	Peak
5150	49.8	50.87	54	-4.2	34.52	9.92	45.51	100	50	Average
5290	93.97	94.98	/	/	34.63	9.87	45.51	100	50	Peak
5290	88.73	89.74	/	/	34.63	9.87	45.51	100	50	Average
5350	57.9	58.88	74	-16.1	34.68	9.85	45.51	100	50	Peak
5350	50.96	51.94	54	-3.04	34.68	9.85	45.51	100	50	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	53.87	54.86	74	-20.13	34.6	9.92	45.51	100	15	Peak
5150	49.73	50.72	54	-4.27	34.6	9.92	45.51	100	15	Average
5290	93.45	94.49	/	/	34.6	9.87	45.51	100	15	Peak
5290	88.28	89.32	/	/	34.6	9.87	45.51	100	15	Average
5350	55.42	56.48	74	-18.58	34.6	9.85	45.51	100	15	Peak
5350	50.63	51.69	54	-3.37	34.6	9.85	45.51	100	15	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5290MHz: Fundamental frequency.

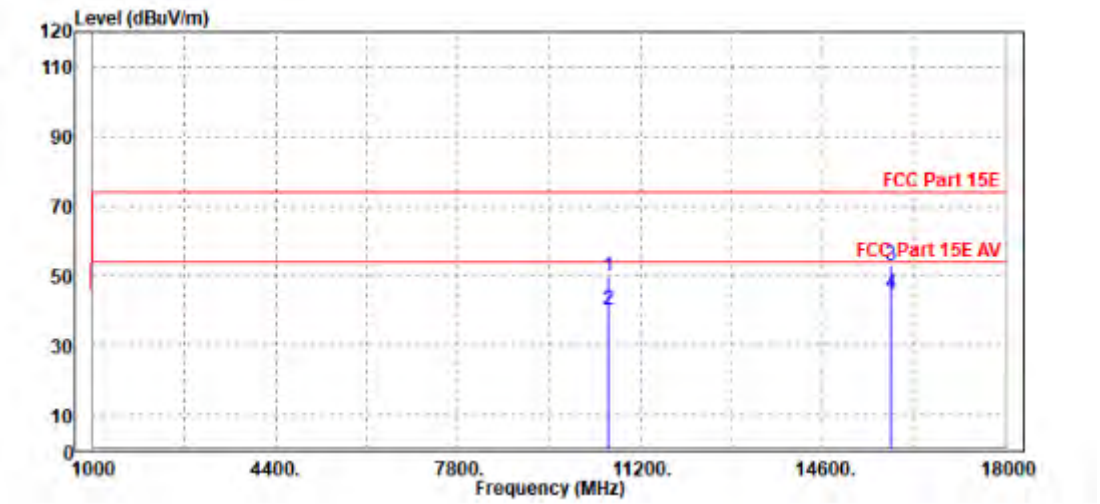
802.11ac (80MHz)

Worst case harmonic:

CHANNEL	TX Channel 58	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

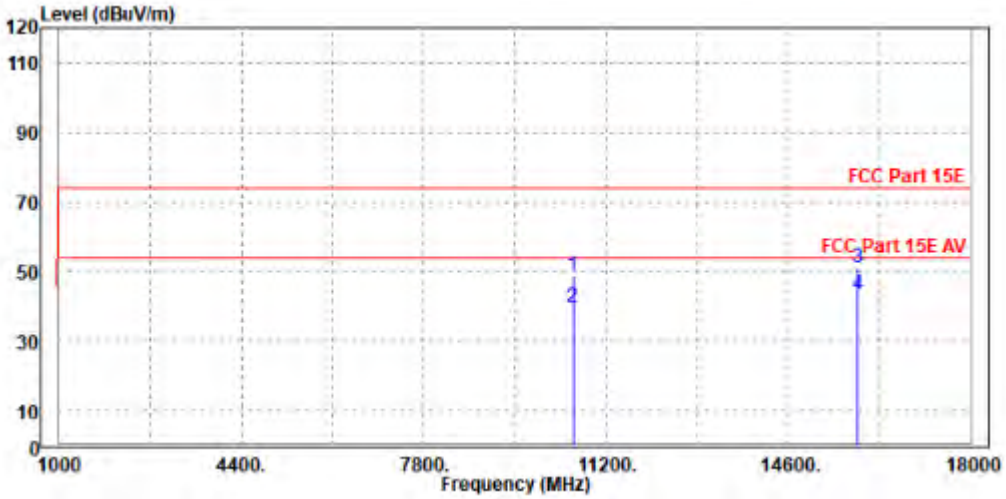
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1	10588.000	49.62	42.68	74.00	-24.38	6.94	Peak	Horizontal
2	10588.000	40.12	33.18	54.00	-13.88	6.94	Average	Horizontal
3	PK15870.000	52.83	38.79	74.00	-21.17	14.04	Peak	Horizontal
4	PP15870.000	44.59	30.55	54.00	-9.41	14.04	Average	Horizontal



ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1	10580.000	49.00	40.82	74.00	-25.00	8.18	Peak	Vertical
2	10580.000	39.89	31.71	54.00	-14.11	8.18	Average	Vertical
3	PK15875.000	50.99	38.35	74.00	-23.01	12.64	Peak	Vertical
4	PP15875.000	43.16	30.52	54.00	-10.84	12.64	Average	Vertical



REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5290MHz: Fundamental frequency.
3. For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.

Band 3

802.11a

CHANNEL	TX Channel 100	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	54.88	55.81	74	-19.12	34.77	9.81	45.51	200	50	Peak
5460	48.6	49.53	54	-5.4	34.77	9.81	45.51	200	50	Average
5470	55.67	56.59	68.2	-12.53	34.78	9.81	45.51	200	50	Peak
5500	103.13	104.03	/	/	34.8	9.8	45.5	200	50	Peak
5500	95.86	96.76	/	/	34.8	9.8	45.5	200	50	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	55.19	56.29	74	-18.81	34.6	9.81	45.51	200	15	Peak
5460	47.15	48.25	54	-6.85	34.6	9.81	45.51	200	15	Average
5470	54.18	55.28	68.2	-14.02	34.6	9.81	45.51	200	15	Peak
5500	99.91	101.01	/	/	34.6	9.8	45.5	200	15	Peak
5500	93.36	94.46	/	/	34.6	9.8	45.5	200	15	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor

   Margin value = Emission level – Limit value.
2. 5500MHz: Fundamental frequency.
3. #: Out of restricted band.

CHANNEL	TX Channel 116	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	53.12	54.05	74	-20.88	34.77	9.81	45.51	200	50	Peak
5460	47.48	48.41	54	-6.52	34.77	9.81	45.51	200	50	Average
5470	53.46	54.38	68.2	-14.74	34.78	9.81	45.51	200	50	Peak
5580	102.24	103.01	/	/	34.9	9.83	45.5	200	50	Peak
5580	95.4	96.17	/	/	34.9	9.83	45.5	200	50	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	52.95	54.05	74	-21.05	34.6	9.81	45.51	200	15	Peak
5460	47.62	48.72	54	-6.38	34.6	9.81	45.51	200	15	Average
5470	54.59	55.69	68.2	-13.61	34.6	9.81	45.51	200	15	Peak
5580	98.57	99.54	/	/	34.7	9.83	45.5	200	15	Peak
5580	91.82	92.79	/	/	34.7	9.83	45.5	200	15	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5580MHz: Fundamental frequency.
3. #: Out of restricted band.

CHANNEL	TX Channel 140	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5700	102.86	103.45	/	/	35.04	9.87	45.5	200	50	Peak
5700	95.58	96.17	/	/	35.04	9.87	45.5	200	50	Average
5725	55.01	55.56	68.2	-13.19	35.07	9.88	45.5	200	50	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5700	98.71	99.5	/	/	34.84	9.87	45.5	200	15	Peak
5700	91.2	91.99	/	/	34.84	9.87	45.5	200	15	Average
5725	56.14	56.89	68.2	-12.06	34.87	9.88	45.5	200	15	Peak

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5700MHz: Fundamental frequency.
3. #: Out of restricted band.

CHANNEL	TX Channel 144	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5470	54.47	55.39	68.2	-13.73	34.78	9.81	45.51	200	50	Peak
5720	102.87	103.44	/	/	35.06	9.87	45.5	200	50	Peak
5720	96.54	97.11	/	/	35.06	9.87	45.5	200	50	Average
5850	54.36	54.72	68.2	-13.84	35.22	9.92	45.5	200	50	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5470	53.44	54.54	68.2	-14.76	34.6	9.81	45.51	200	10	Peak
5720	101.08	101.85	/	/	34.86	9.87	45.5	200	10	Peak
5720	93.74	94.51	/	/	34.86	9.87	45.5	200	10	Average
5850	55.32	55.88	68.2	-12.88	35.02	9.92	45.5	200	10	Peak

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5720MHz: Fundamental frequency.
3. #: Out of restricted band.

802.11n (20MHz)

CHANNEL	TX Channel 100	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	53.49	54.42	74	-20.51	34.77	9.81	45.51	200	50	Peak
5460	48.42	49.35	54	-5.58	34.77	9.81	45.51	200	50	Average
5470	55.9	56.82	68.2	-12.3	34.78	9.81	45.51	200	50	Peak
5500	101.99	102.89	/	/	34.8	9.8	45.5	200	50	Peak
5500	95.39	96.29	/	/	34.8	9.8	45.5	200	50	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	53.88	54.98	74	-20.12	34.6	9.81	45.51	200	10	Peak
5460	47.7	48.8	54	-6.3	34.6	9.81	45.51	200	10	Average
5470	53.57	54.67	68.2	-14.63	34.6	9.81	45.51	200	10	Peak
5500	99.19	100.29	/	/	34.6	9.8	45.5	200	10	Peak
5500	91.5	92.6	/	/	34.6	9.8	45.5	200	10	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5500MHz: Fundamental frequency.
3. #: Out of restricted band.

CHANNEL	TX Channel 116	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	54.04	54.97	74	-19.96	34.77	9.81	45.51	200	50	Peak
5460	47.76	48.69	54	-6.24	34.77	9.81	45.51	200	50	Average
5470	54.23	55.15	68.2	-13.97	34.78	9.81	45.51	200	50	Peak
5580	101.59	102.36	/	/	34.9	9.83	45.5	200	50	Peak
5580	95.38	96.15	/	/	34.9	9.83	45.5	200	50	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	53.37	54.47	74	-20.63	34.6	9.81	45.51	200	10	Peak
5460	47.65	48.75	54	-6.35	34.6	9.81	45.51	200	10	Average
5470	53.47	54.57	68.2	-14.73	34.6	9.81	45.51	200	10	Peak
5580	96.47	97.44	/	/	34.7	9.83	45.5	200	10	Peak
5580	89.43	90.4	/	/	34.7	9.83	45.5	200	10	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5580MHz: Fundamental frequency.
3. #: Out of restricted band.

CHANNEL	TX Channel 140	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5700	102.07	102.66	/	/	35.04	9.87	45.5	200	50	Peak
5700	96.1	96.69	/	/	35.04	9.87	45.5	200	50	Average
5725	54.6	55.15	68.2	-13.6	35.07	9.88	45.5	200	50	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5700	99.87	100.66	/	/	34.84	9.87	45.5	200	10	Peak
5700	93.33	94.12	/	/	34.84	9.87	45.5	200	10	Average
5725	54.71	55.46	68.2	-13.49	34.87	9.88	45.5	200	10	Peak

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5700MHz: Fundamental frequency.
3. #: Out of restricted band.

CHANNEL	TX Channel 144	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5470	53.79	54.71	68.2	-14.41	34.78	9.81	45.51	200	50	Peak
5720	102.5	103.07	/	/	35.06	9.87	45.5	200	50	Peak
5720	95.89	96.46	/	/	35.06	9.87	45.5	200	50	Average
5850	53.5	53.86	68.2	-14.7	35.22	9.92	45.5	200	50	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5470	52.54	53.64	68.2	-15.66	34.6	9.81	45.51	200	10	Peak
5720	99.61	100.38	/	/	34.86	9.87	45.5	200	10	Peak
5720	94.04	94.81	/	/	34.86	9.87	45.5	200	10	Average
5850	53.38	53.94	68.2	-14.82	35.02	9.92	45.5	200	10	Peak

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5720MHz: Fundamental frequency.
3. #: Out of restricted band.

802.11n (40MHz)

CHANNEL	TX Channel 102	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	**EMISSION LEVEL (dBuV/m)**	**READ LEVEL (dBuV)**	**LIMIT (dBuV/m)**	**MARGIN (dB)**	**ANTENNA FACTOR (dB /m)**	**CABLE LOSS (dB)**	**PREAMP FACTOR (dB)**	**ANTENNA HEIGHT (cm)**	**TABLE ANGLE (Degree)**	**REMARK**
5460	54.05	54.98	74	-19.95	34.77	9.81	45.51	100	285	Peak
5460	48.23	49.16	54	-5.77	34.77	9.81	45.51	100	285	Average
5470	54.96	55.88	68.2	-13.24	34.78	9.81	45.51	100	285	Peak
5510	94.39	95.28	/	/	34.81	9.8	45.5	100	285	Peak
5510	89.8	90.69	/	/	34.81	9.8	45.5	100	285	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	**EMISSION LEVEL (dBuV/m)**	**READ LEVEL (dBuV)**	**LIMIT (dBuV/m)**	**MARGIN (dB)**	**ANTENNA FACTOR (dB /m)**	**CABLE LOSS (dB)**	**PREAMP FACTOR (dB)**	**ANTENNA HEIGHT (cm)**	**TABLE ANGLE (Degree)**	**REMARK**
5460	54.11	55.21	74	-19.89	34.6	9.81	45.51	160	0	Peak
5460	48.73	49.83	54	-5.27	34.6	9.81	45.51	160	0	Average
5470	54.44	55.54	68.2	-13.76	34.6	9.81	45.51	160	0	Peak
5510	94.69	95.78	/	/	34.61	9.8	45.5	160	0	Peak
5510	89.99	91.08	/	/	34.61	9.8	45.5	160	0	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5510MHz: Fundamental frequency.
3. #: Out of restricted band.

CHANNEL	TX Channel 110	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	54.11	55.04	74	-19.89	34.77	9.81	45.51	100	285	Peak
5460	47.85	48.78	54	-6.15	34.77	9.81	45.51	100	285	Average
5470	53.46	54.38	68.2	-14.74	34.78	9.81	45.51	100	285	Peak
5550	94.21	95.03	/	/	34.86	9.82	45.5	100	285	Peak
5550	89.83	90.65	/	/	34.86	9.82	45.5	100	285	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	54.6	55.7	74	-19.4	34.6	9.81	45.51	160	0	Peak
5460	47.88	48.98	54	-6.12	34.6	9.81	45.51	160	0	Average
5470	53.77	54.87	68.2	-14.43	34.6	9.81	45.51	160	0	Peak
5550	94.58	95.6	/	/	34.66	9.82	45.5	160	0	Peak
5550	90.12	91.14	/	/	34.66	9.82	45.5	160	0	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5500MHz: Fundamental frequency.
3. #: Out of restricted band.

CHANNEL	TX Channel 134	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5670	93.44	94.08	/	/	35	9.86	45.5	100	295	Peak
5670	89.81	90.45	/	/	35	9.86	45.5	100	295	Average
5725	54.68	55.23	68.2	-13.52	35.07	9.88	45.5	100	295	Peak
ANTENNA POLARITY & test distance: Vertical at 3 m										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5670	94.54	95.38	/	/	34.8	9.86	45.5	160	0	Peak
5670	90.49	91.33	/	/	34.8	9.86	45.5	160	0	Average
5725	53.86	54.61	68.2	-14.34	34.87	9.88	45.5	160	0	Peak

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5670MHz: Fundamental frequency.
3. #: Out of restricted band.

CHANNEL	TX Channel 142	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5470	53.7	54.62	68.2	-14.5	34.78	9.81	45.51	100	295	Peak
5710	94.06	94.64	/	/	35.05	9.87	45.5	100	295	Peak
5710	90.03	90.61	/	/	35.05	9.87	45.5	100	295	Average
5850	54.75	55.11	68.2	-13.45	35.22	9.92	45.5	100	295	Peak
ANTENNA POLARITY & test distance: Vertical at 3 m										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5470	53.29	54.39	68.2	-14.91	34.6	9.81	45.51	160	0	Peak
5710	95.02	95.8	/	/	34.85	9.87	45.5	160	0	Peak
5710	91.47	92.25	/	/	34.85	9.87	45.5	160	0	Average
5850	55.56	56.12	68.2	-12.64	35.02	9.92	45.5	160	0	Peak

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5710MHz: Fundamental frequency.
3. #: Out of restricted band.

802.11ac (20MHz)

CHANNEL	TX Channel 100	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	54.42	55.35	74	-19.58	34.77	9.81	45.51	100	285	Peak
5460	48.02	48.95	54	-5.98	34.77	9.81	45.51	100	285	Average
5470	54.68	55.6	68.2	-13.52	34.78	9.81	45.51	100	285	Peak
5500	99.09	99.99	/	/	34.8	9.8	45.5	100	285	Peak
5500	92.78	93.68	/	/	34.8	9.8	45.5	100	285	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	54.37	55.47	74	-19.63	34.6	9.81	45.51	160	0	Peak
5460	48.25	49.35	54	-5.75	34.6	9.81	45.51	160	0	Average
5470	54.91	56.01	68.2	-13.29	34.6	9.81	45.51	160	0	Peak
5500	99.77	100.87	/	/	34.6	9.8	45.5	160	0	Peak
5500	93.81	94.91	/	/	34.6	9.8	45.5	160	0	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5500MHz: Fundamental frequency.
3. #: Out of restricted band.

CHANNEL	TX Channel 116	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	53.83	54.76	74	-20.17	34.77	9.81	45.51	100	285	Peak
5460	47.43	48.36	54	-6.57	34.77	9.81	45.51	100	285	Average
5470	53.86	54.78	68.2	-14.34	34.78	9.81	45.51	100	285	Peak
5580	97.91	98.68	/	/	34.9	9.83	45.5	100	285	Peak
5580	91.53	92.3	/	/	34.9	9.83	45.5	100	285	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	55.37	56.47	74	-18.63	34.6	9.81	45.51	160	0	Peak
5460	48.03	49.13	54	-5.97	34.6	9.81	45.51	160	0	Average
5470	54.76	55.86	68.2	-13.44	34.6	9.81	45.51	160	0	Peak
5580	98.34	99.31	/	/	34.7	9.83	45.5	160	0	Peak
5580	92.08	93.05	/	/	34.7	9.83	45.5	160	0	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5580MHz: Fundamental frequency.
3. #: Out of restricted band.

CHANNEL	TX Channel 140	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5700	99.12	99.71	/	/	35.04	9.87	45.5	100	295	Peak
5700	92.47	93.06	/	/	35.04	9.87	45.5	100	295	Average
5725	55.15	55.7	68.2	-13.05	35.07	9.88	45.5	100	295	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5700	99.8	100.59	/	/	34.84	9.87	45.5	160	0	Peak
5700	93.6	94.39	/	/	34.84	9.87	45.5	160	0	Average
5725	55.38	56.13	68.2	-12.82	34.87	9.88	45.5	160	0	Peak

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5700MHz: Fundamental frequency.
3. #: Out of restricted band.

CHANNEL	TX Channel 144	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5470	53.66	54.58	68.2	-14.54	34.78	9.81	45.51	100	295	Peak
5720	98.98	99.55	/	/	35.06	9.87	45.5	100	295	Peak
5720	92.48	93.05	/	/	35.06	9.87	45.5	100	295	Average
5850	55.3	55.66	68.2	-12.9	35.22	9.92	45.5	100	295	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5470	55.67	56.77	68.2	-12.53	34.6	9.81	45.51	160	0	Peak
5720	100.25	101.02	/	/	34.86	9.87	45.5	160	0	Peak
5720	93.85	94.62	/	/	34.86	9.87	45.5	160	0	Average
5850	54.62	55.18	68.2	-13.58	35.02	9.92	45.5	160	0	Peak

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5720MHz: Fundamental frequency.
3. #: Out of restricted band.

802.11ac (40MHz)

CHANNEL	TX Channel 102	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	**EMISSION LEVEL (dBuV/m)**	**READ LEVEL (dBuV)**	**LIMIT (dBuV/m)**	**MARGIN (dB)**	**ANTENNA FACTOR (dB /m)**	**CABLE LOSS (dB)**	**PREAMP FACTOR (dB)**	**ANTENNA HEIGHT (cm)**	**TABLE ANGLE (Degree)**	**REMARK**
5460	54.15	55.08	74	-19.85	34.77	9.81	45.51	100	285	Peak
5460	48.46	49.39	54	-5.54	34.77	9.81	45.51	100	285	Average
5470	54.47	55.39	68.2	-13.73	34.78	9.81	45.51	100	285	Peak
5510	94.69	95.58	/	/	34.81	9.8	45.5	100	285	Peak
5510	90.51	91.4	/	/	34.81	9.8	45.5	100	285	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	**EMISSION LEVEL (dBuV/m)**	**READ LEVEL (dBuV)**	**LIMIT (dBuV/m)**	**MARGIN (dB)**	**ANTENNA FACTOR (dB /m)**	**CABLE LOSS (dB)**	**PREAMP FACTOR (dB)**	**ANTENNA HEIGHT (cm)**	**TABLE ANGLE (Degree)**	**REMARK**
5460	53.98	55.08	74	-20.02	34.6	9.81	45.51	160	0	Peak
5460	47.85	48.95	54	-6.15	34.6	9.81	45.51	160	0	Average
5470	55.25	56.35	68.2	-12.95	34.6	9.81	45.51	160	0	Peak
5510	94.89	95.98	/	/	34.61	9.8	45.5	160	0	Peak
5510	90.49	91.58	/	/	34.61	9.8	45.5	160	0	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5510MHz: Fundamental frequency.
3. #: Out of restricted band.

CHANNEL	TX Channel 110	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	54.35	55.28	74	-19.65	34.77	9.81	45.51	100	285	Peak
5460	48.83	49.76	54	-5.17	34.77	9.81	45.51	100	285	Average
5470	55.45	56.37	68.2	-12.75	34.78	9.81	45.51	100	285	Peak
5550	93.82	94.64	/	/	34.86	9.82	45.5	100	285	Peak
5550	89.76	90.58	/	/	34.86	9.82	45.5	100	285	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	55.21	56.31	74	-18.79	34.6	9.81	45.51	160	0	Peak
5460	48.37	49.47	54	-5.63	34.6	9.81	45.51	160	0	Average
5470	54.02	55.12	68.2	-14.18	34.6	9.81	45.51	160	0	Peak
5550	94.7	95.72	/	/	34.66	9.82	45.5	160	0	Peak
5550	90.33	91.35	/	/	34.66	9.82	45.5	160	0	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5500MHz: Fundamental frequency.
3. #: Out of restricted band.

CHANNEL	TX Channel 134	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5670	93.71	94.35	/	/	35	9.86	45.5	100	295	Peak
5670	89.87	90.51	/	/	35	9.86	45.5	100	295	Average
5725	53.99	54.54	68.2	-14.21	35.07	9.88	45.5	100	295	Peak
ANTENNA POLARITY & test distance: Vertical at 3 m										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5670	94.17	95.01	/	/	34.8	9.86	45.5	160	0	Peak
5670	90.57	91.41	/	/	34.8	9.86	45.5	160	0	Average
5725	54.62	55.37	68.2	-13.58	34.87	9.88	45.5	160	0	Peak

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5670MHz: Fundamental frequency.
3. #: Out of restricted band.

CHANNEL	TX Channel 142	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5470	53.55	54.47	68.2	-14.65	34.78	9.81	45.51	100	295	Peak
5710	93.62	94.2	/	/	35.05	9.87	45.5	100	295	Peak
5710	90.03	90.61	/	/	35.05	9.87	45.5	100	295	Average
5850	54.74	55.1	68.2	-13.46	35.22	9.92	45.5	100	295	Peak
ANTENNA POLARITY & test distance: Vertical at 3 m										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5470	53.99	55.09	68.2	-14.21	34.6	9.81	45.51	160	0	Peak
5710	95.11	95.89	/	/	34.85	9.87	45.5	160	0	Peak
5710	91.25	92.03	/	/	34.85	9.87	45.5	160	0	Average
5850	55.14	55.7	68.2	-13.06	35.02	9.92	45.5	160	0	Peak

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5710MHz: Fundamental frequency.
3. #: Out of restricted band.

802.11ac (80MHz)

CHANNEL	TX Channel 106	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	56.07	57	74	-17.93	34.77	9.81	45.51	100	285	Peak
5460	50.76	51.69	54	-3.24	34.77	9.81	45.51	100	285	Average
5470	55.5	56.42	68.2	-12.7	34.78	9.81	45.51	100	285	Peak
5530	91.92	92.77	/	/	34.84	9.81	45.5	100	285	Peak
5530	86.51	87.36	/	/	34.84	9.81	45.5	100	285	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	56.34	57.44	74	-17.66	34.6	9.81	45.51	160	0	Peak
5460	50.96	52.06	54	-3.04	34.6	9.81	45.51	160	0	Average
5470	57.77	58.87	68.2	-10.43	34.6	9.81	45.51	160	0	Peak
5530	92.18	93.23	/	/	34.64	9.81	45.5	160	0	Peak
5530	87.01	88.06	/	/	34.64	9.81	45.5	160	0	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5530MHz: Fundamental frequency.
3. #: Out of restricted band.

CHANNEL	TX Channel 122	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	54.8	55.73	74	-19.2	34.77	9.81	45.51	100	285	Peak
5460	47.6	48.53	54	-6.4	34.77	9.81	45.51	100	285	Average
5470	53.25	54.17	68.2	-14.95	34.78	9.81	45.51	100	285	Peak
5610	89.8	90.53	/	/	34.93	9.84	45.5	100	285	Peak
5610	86.52	87.25	/	/	34.93	9.84	45.5	100	285	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	53.51	54.61	74	-20.49	34.6	9.81	45.51	160	0	Peak
5460	48.04	49.14	54	-5.96	34.6	9.81	45.51	160	0	Average
5470	53.29	54.39	68.2	-14.91	34.6	9.81	45.51	160	0	Peak
5610	90.3	91.23	/	/	34.73	9.84	45.5	160	0	Peak
5610	86.46	87.39	/	/	34.73	9.84	45.5	160	0	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5610MHz: Fundamental frequency.
3. #: Out of restricted band.

CHANNEL	TX Channel 138	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5470	54.05	54.97	68.2	-14.15	34.78	9.81	45.51	100	295	Peak
5690	91.08	91.69	/	/	35.03	9.86	45.5	100	295	Peak
5690	86.93	87.54	/	/	35.03	9.86	45.5	100	295	Average
5850	57.51	57.87	68.2	-10.69	35.22	9.92	45.5	100	295	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5470	55.51	56.61	68.2	-12.69	34.6	9.81	45.51	160	0	Peak
5690	90.8	91.61	/	/	34.83	9.86	45.5	160	0	Peak
5690	87.85	88.66	/	/	34.83	9.86	45.5	160	0	Average
5850	55.21	55.77	68.2	-12.99	35.02	9.92	45.5	160	0	Peak

REMARKS:

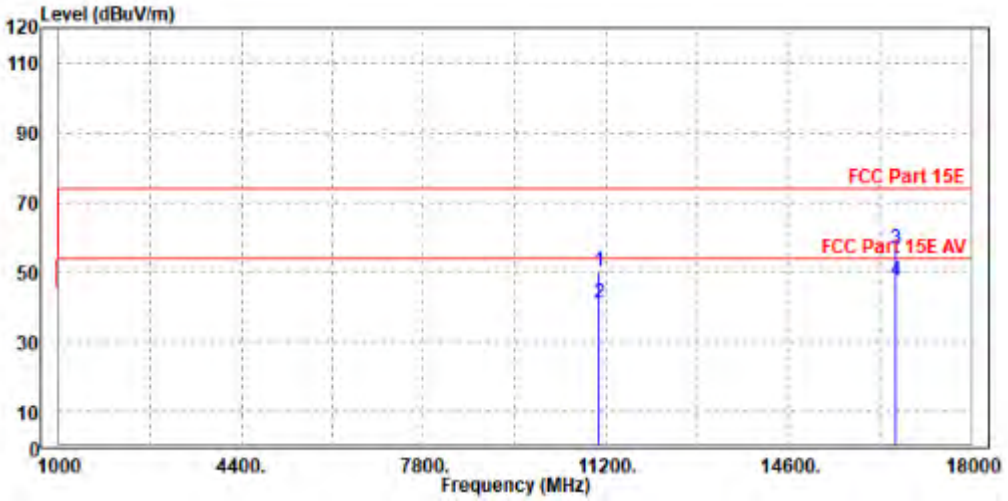
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5690MHz: Fundamental frequency.
3. #: Out of restricted band.

802.11ac (80MHz)
Worst case harmonic:

CHANNEL	TX Channel 106	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

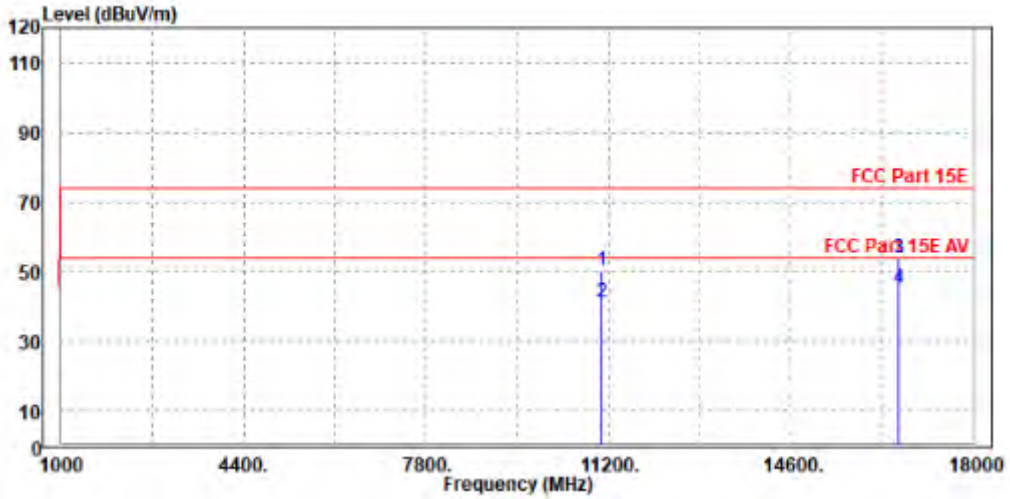
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1	11060.000	50.06	42.94	74.00	-23.94	7.12	Peak	Horizontal
2	11060.000	40.95	33.83	54.00	-13.05	7.12	Average	Horizontal
3	PK16589.000	56.52	40.49	74.00	-17.48	16.03	Peak	Horizontal
4	PP16589.000	47.26	31.23	54.00	-6.74	16.03	Average	Horizontal



ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1	11064.000	50.38	42.81	74.00	-23.62	7.57	Peak	Vertical
2	11064.000	41.13	33.56	54.00	-12.87	7.57	Average	Vertical
3	PK16590.000	53.85	39.70	74.00	-20.15	14.15	Peak	Vertical
4	PP16590.000	44.96	30.81	54.00	-9.04	14.15	Average	Vertical



REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5530MHz: Fundamental frequency.
3. For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.

Band 4:

802.11a

CHANNEL	TX Channel 149	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5745	102.21	102.74	/	/	35.09	9.88	45.5	100	55	Peak
5745	95.53	96.06	/	/	35.09	9.88	45.5	100	55	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5745	102.28	103.01	/	/	34.89	9.88	45.5	160	355	Peak
5745	95.22	95.95	/	/	34.89	9.88	45.5	160	355	Average

REMARKS:

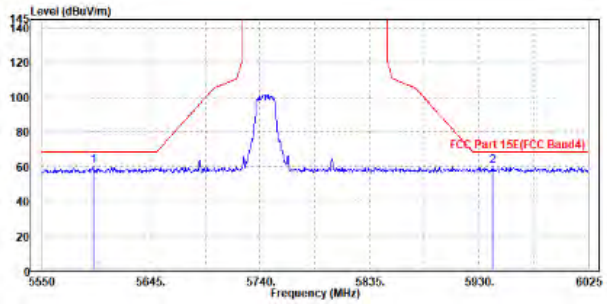
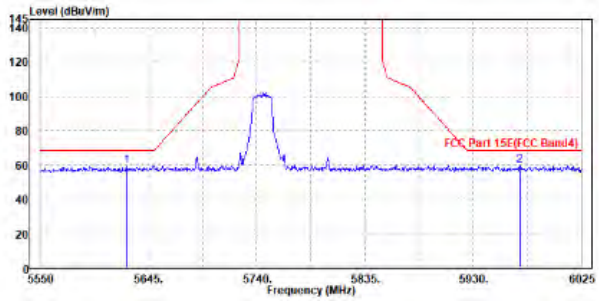
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5745MHz: Fundamental frequency.

OOBE DATA

802.11a

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5594.65	60.13	60.89	68.2	-8.07	34.91	9.83	45.5	100	360	Peak
5942.35	60.14	60.36	68.2	-8.06	35.33	9.95	45.5	100	360	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5625.525	59.21	60.12	68.2	-8.99	34.75	9.84	45.5	200	0	Peak
5971.325	59.47	59.84	68.2	-8.73	35.17	9.96	45.5	200	0	Peak

CH 149

Horiontal	Vertical
	

CHANNEL	TX Channel 157	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5785	102.62	103.08	/	/	35.14	9.9	45.5	100	55	Peak
5785	95.81	96.27	/	/	35.14	9.9	45.5	100	55	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5785	102.89	103.55	/	/	34.94	9.9	45.5	160	355	Peak
5785	96.13	96.79	/	/	34.94	9.9	45.5	160	355	Average

REMARKS:

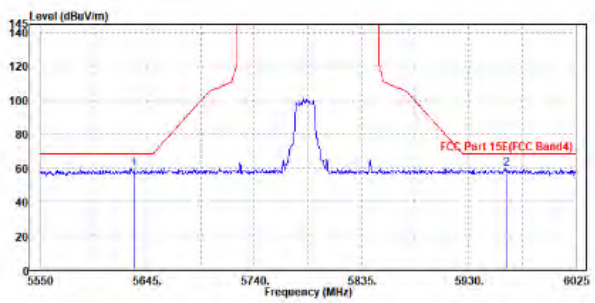
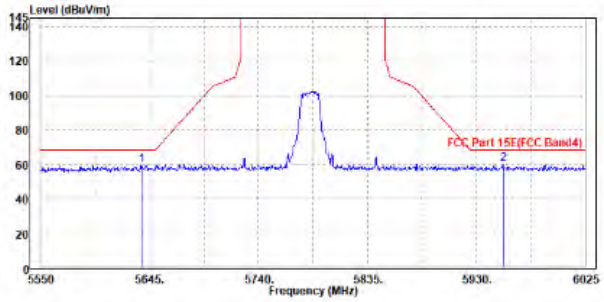
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5785MHz: Fundamental frequency.

OOBE DATA

802.11a

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5633.125	59.11	59.8	68.2	-9.09	34.96	9.85	45.5	100	0	Peak
5963.25	59.45	59.63	68.2	-8.75	35.36	9.96	45.5	100	0	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5637.875	59.51	60.39	68.2	-8.69	34.77	9.85	45.5	100	360	Peak
5953.275	59.98	60.39	68.2	-8.22	35.14	9.95	45.5	100	360	Peak

CH 157

Horiontal	Vertical
	

CHANNEL	TX Channel 165	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5825	103.74	104.14	/	/	35.19	9.91	45.5	100	55	Peak
5825	96.59	96.99	/	/	35.19	9.91	45.5	100	55	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5825	102.2	102.8	/	/	34.99	9.91	45.5	160	355	Peak
5825	95.9	96.5	/	/	34.99	9.91	45.5	160	355	Average

REMARKS:

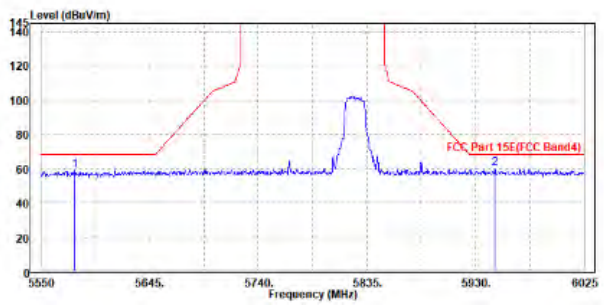
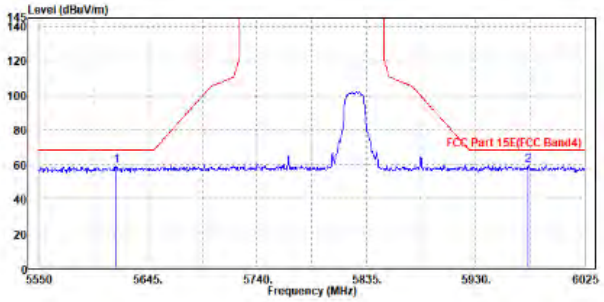
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5825MHz: Fundamental frequency.

OOBE DATA

802.11a

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5578.975	59.05	59.83	68.2	-9.15	34.89	9.83	45.5	100	360	Peak
5947.1	59.85	60.06	68.2	-8.35	35.34	9.95	45.5	100	360	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5617.45	58.78	59.7	68.2	-9.42	34.74	9.84	45.5	200	0	Peak
5975.6	59.32	59.69	68.2	-8.88	35.17	9.96	45.5	200	0	Peak

CH 165

Horiontal	Vertical
	

802.11n (20MHz)

CHANNEL	TX Channel 149	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	**EMISSION LEVEL (dBuV/m)**	**READ LEVEL (dBuV)**	**LIMIT (dBuV/m)**	**MARGIN (dB)**	**ANTENNA FACTOR (dB /m)**	**CABLE LOSS (dB)**	**PREAMP FACTOR (dB)**	**ANTENNA HEIGHT (cm)**	**TABLE ANGLE (Degree)**	**REMARK**
5745	101.27	101.8	/	/	35.09	9.88	45.5	100	55	Peak
5745	95.15	95.68	/	/	35.09	9.88	45.5	100	55	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	**EMISSION LEVEL (dBuV/m)**	**READ LEVEL (dBuV)**	**LIMIT (dBuV/m)**	**MARGIN (dB)**	**ANTENNA FACTOR (dB /m)**	**CABLE LOSS (dB)**	**PREAMP FACTOR (dB)**	**ANTENNA HEIGHT (cm)**	**TABLE ANGLE (Degree)**	**REMARK**
5745	101.51	102.24	/	/	34.89	9.88	45.5	160	355	Peak
5745	95.15	95.88	/	/	34.89	9.88	45.5	160	355	Average

REMARKS:

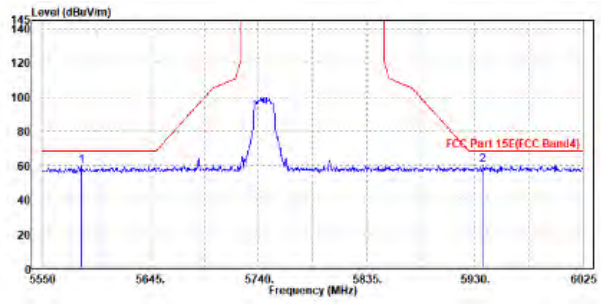
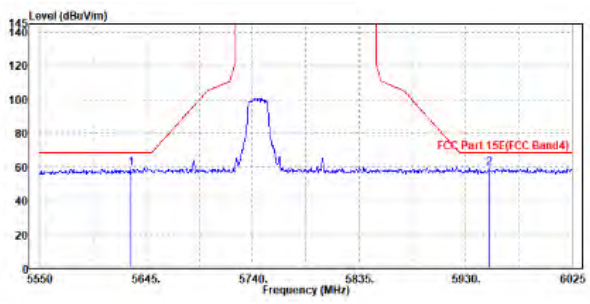
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5745MHz: Fundamental frequency.

OOBE DATA

802.11n (20MHZ)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5584.2	59.34	60.11	68.2	-8.86	34.9	9.83	45.5	100	0	Peak
5936.65	59.86	60.09	68.2	-8.34	35.32	9.95	45.5	100	0	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5631.225	59.07	59.97	68.2	-9.13	34.76	9.84	45.5	100	360	Peak
5951.375	59.2	59.61	68.2	-9	35.14	9.95	45.5	100	360	Peak

CH 149

Horiontal	Vertical
	

CHANNEL	TX Channel 157	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5785	101.75	102.21	/	/	35.14	9.9	45.5	100	55	Peak
5785	95.67	96.13	/	/	35.14	9.9	45.5	100	55	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5785	101.95	102.61	/	/	34.94	9.9	45.5	160	355	Peak
5785	96.19	96.85	/	/	34.94	9.9	45.5	160	355	Average

REMARKS:

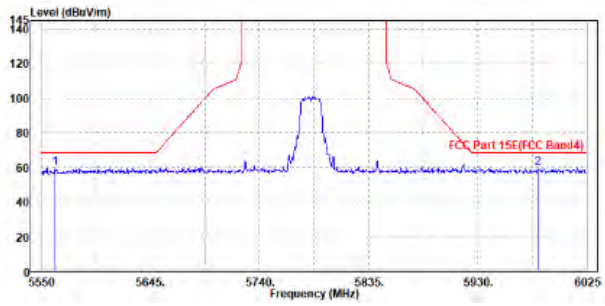
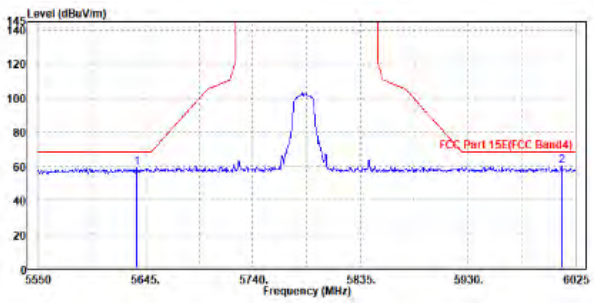
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5785MHz: Fundamental frequency.

OOBE DATA

802.11n (20MHZ)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV /m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5562.35	59.31	60.12	68.2	-8.89	34.87	9.82	45.5	100	360	Peak
5982.25	59.4	59.56	68.2	-8.8	35.38	9.96	45.5	100	360	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV /m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5636.925	59.2	60.09	68.2	-9	34.76	9.85	45.5	200	0	Peak
6012.65	60.17	60.47	68.2	-8.03	35.22	9.98	45.5	200	0	Peak

CH 157

Horiontal	Vertical
	

CHANNEL	TX Channel 165	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5825	102.45	102.85	/	/	35.19	9.91	45.5	100	55	Peak
5825	95.87	96.27	/	/	35.19	9.91	45.5	100	55	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5825	101.7	102.3	/	/	34.99	9.91	45.5	160	355	Peak
5825	95.76	96.36	/	/	34.99	9.91	45.5	160	355	Average

REMARKS:

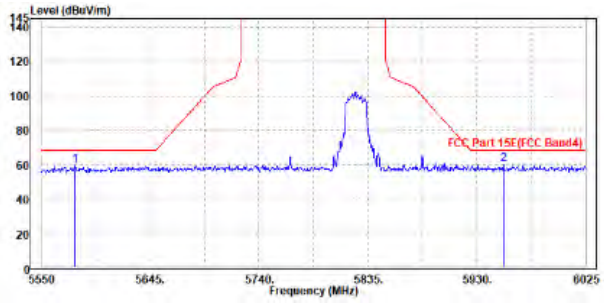
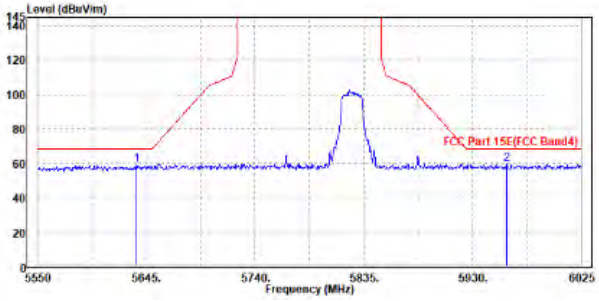
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5825MHz: Fundamental frequency.

OOBE DATA

802.11n (20MHz)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5579.45	59.3	60.07	68.2	-8.9	34.9	9.83	45.5	100	0	Peak
5953.275	60.08	60.29	68.2	-8.12	35.34	9.95	45.5	100	0	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5635.975	59.23	60.12	68.2	-8.97	34.76	9.85	45.5	100	360	Peak
5960.4	59.59	59.98	68.2	-8.61	35.15	9.96	45.5	100	360	Peak

CH 165

Horiontal	Vertical
	

802.11n (40MHz)

CHANNEL	TX Channel 151	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	**EMISSION LEVEL (dBuV/m)**	**READ LEVEL (dBuV)**	**LIMIT (dBuV/m)**	**MARGIN (dB)**	**ANTENNA FACTOR (dB /m)**	**CABLE LOSS (dB)**	**PREAMP FACTOR (dB)**	**ANTENNA HEIGHT (cm)**	**TABLE ANGLE (Degree)**	**REMARK**
5755	96.16	96.66	/	/	35.11	9.89	45.5	100	55	Peak
5755	92.4	92.9	/	/	35.11	9.89	45.5	100	55	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	**EMISSION LEVEL (dBuV/m)**	**READ LEVEL (dBuV)**	**LIMIT (dBuV/m)**	**MARGIN (dB)**	**ANTENNA FACTOR (dB /m)**	**CABLE LOSS (dB)**	**PREAMP FACTOR (dB)**	**ANTENNA HEIGHT (cm)**	**TABLE ANGLE (Degree)**	**REMARK**
5755	96.72	97.42	/	/	34.91	9.89	45.5	160	355	Peak
5755	92.58	93.28	/	/	34.91	9.89	45.5	160	355	Average

REMARKS:

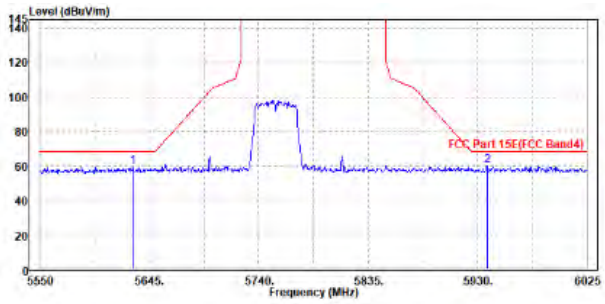
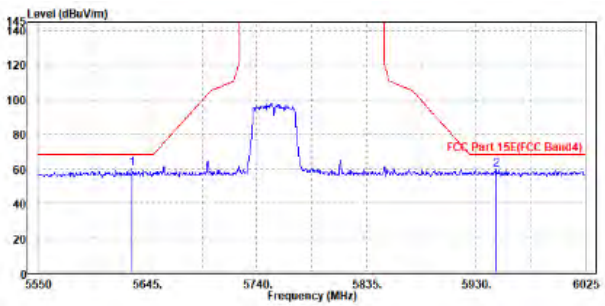
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5755MHz: Fundamental frequency.

OOBE DATA

802.11n (40MHZ)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5630.75	59.46	60.16	68.2	-8.74	34.96	9.84	45.5	200	360	Peak
5938.55	60.23	60.45	68.2	-7.97	35.33	9.95	45.5	200	360	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5631.7	60.08	60.98	68.2	-8.12	34.76	9.84	45.5	100	0	Peak
5947.575	59.4	59.81	68.2	-8.8	35.14	9.95	45.5	100	0	Peak

CH 151

Horiontal	Vertical
	

CHANNEL	TX Channel 159	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5795	98.43	98.88	/	/	35.15	9.9	45.5	100	55	Peak
5795	93.96	94.41	/	/	35.15	9.9	45.5	100	55	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5795	98.06	98.71	/	/	34.95	9.9	45.5	160	355	Peak
5795	93.73	94.38	/	/	34.95	9.9	45.5	160	355	Average

REMARKS:

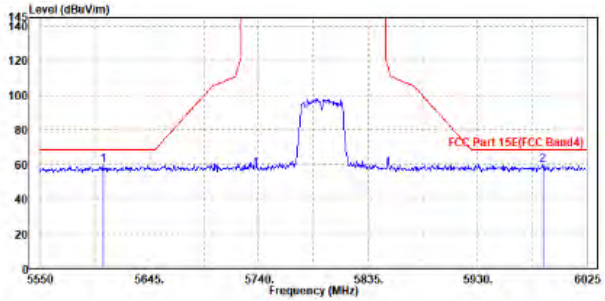
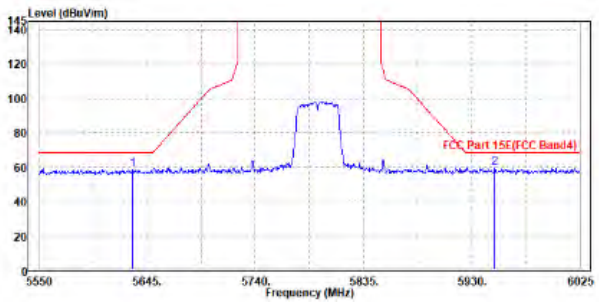
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5795MHz: Fundamental frequency.

OOBE DATA

802.11n (40MHZ)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5604.625	59.8	60.53	68.2	-8.4	34.93	9.84	45.5	100	0	Peak
5987	59.67	59.82	68.2	-8.53	35.38	9.97	45.5	100	0	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5632.175	58.53	59.43	68.2	-9.67	34.76	9.84	45.5	100	360	Peak
5950.425	59.32	59.73	68.2	-8.88	35.14	9.95	45.5	100	360	Peak

CH 159

Horiontal	Vertical
	

802.11ac (20MHz)

CHANNEL	TX Channel 149	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5745	101.46	101.99	/	/	35.09	9.88	45.5	100	55	Peak
5745	94.91	95.44	/	/	35.09	9.88	45.5	100	55	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5745	101.25	101.98	/	/	34.89	9.88	45.5	160	355	Peak
5745	94.56	95.29	/	/	34.89	9.88	45.5	160	355	Average

REMARKS:

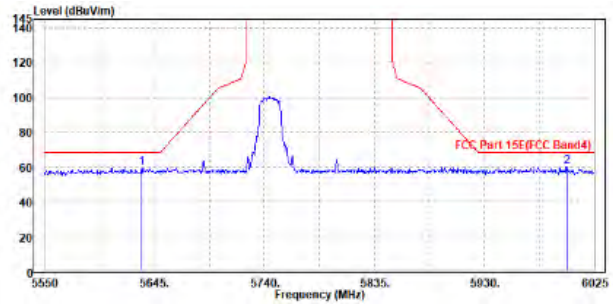
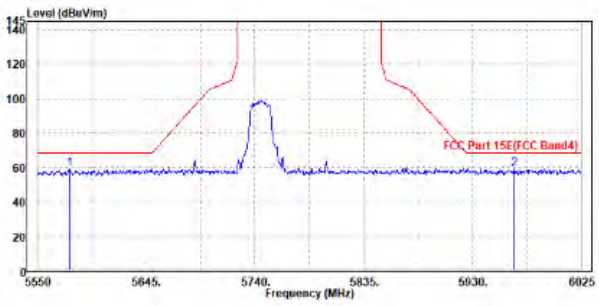
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5745MHz: Fundamental frequency.

OOBE DATA

802.11ac (20MHZ)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5634.075	59.65	60.34	68.2	-8.55	34.96	9.85	45.5	100	360	Peak
6001.25	60.11	60.24	68.2	-8.09	35.4	9.97	45.5	100	360	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5578.025	58.96	59.94	68.2	-9.24	34.69	9.83	45.5	100	0	Peak
5967.05	59.25	59.63	68.2	-8.95	35.16	9.96	45.5	100	0	Peak

CH 149

Horiontal	Vertical
	

CHANNEL	TX Channel 157	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5785	101.66	102.12	/	/	35.14	9.9	45.5	100	55	Peak
5785	95.57	96.03	/	/	35.14	9.9	45.5	100	55	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5785	101.78	102.44	/	/	34.94	9.9	45.5	160	355	Peak
5785	95.59	96.25	/	/	34.94	9.9	45.5	160	355	Average

REMARKS:

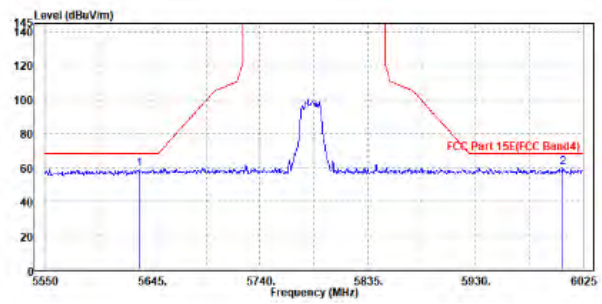
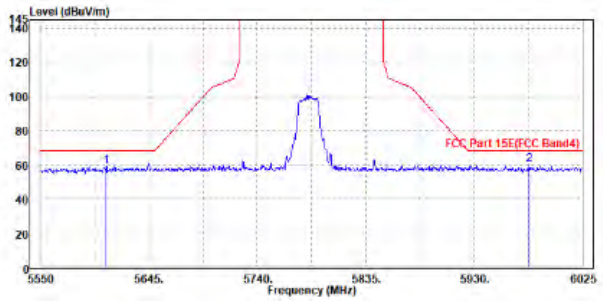
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5785MHz: Fundamental frequency.

OOBE DATA

802.11ac (20MHZ)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV /m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5632.65	59.26	59.95	68.2	-8.94	34.96	9.85	45.5	160	0	Peak
6007.425	59.95	60.07	68.2	-8.25	35.4	9.98	45.5	160	0	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV /m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5607.475	59.24	60.17	68.2	-8.96	34.73	9.84	45.5	100	360	Peak
5978.45	60.04	60.41	68.2	-8.16	35.17	9.96	45.5	100	360	Peak

CH 157

Horiontal	Vertical
	

CHANNEL	TX Channel 165	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5825	102.22	102.62	/	/	35.19	9.91	45.5	100	55	Peak
5825	96.18	96.58	/	/	35.19	9.91	45.5	100	55	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5825	101.79	102.39	/	/	34.99	9.91	45.5	160	355	Peak
5825	95.49	96.09	/	/	34.99	9.91	45.5	160	355	Average

REMARKS:

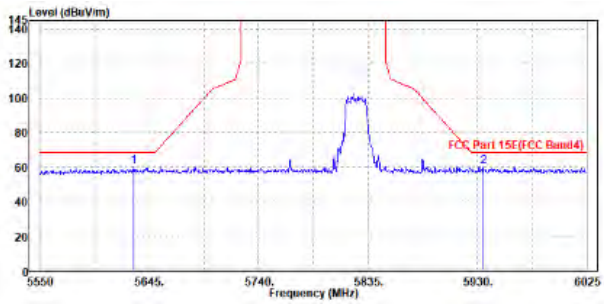
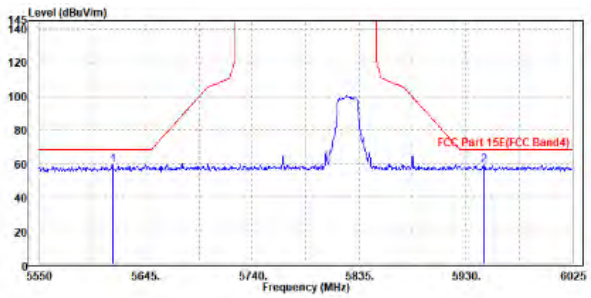
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5825MHz: Fundamental frequency.

OOBE DATA

802.11ac (20MHZ)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5631.7	60.27	60.97	68.2	-7.93	34.96	9.84	45.5	100	0	Peak
5935.225	60.09	60.32	68.2	-8.11	35.32	9.95	45.5	100	0	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5615.55	59.17	60.09	68.2	-9.03	34.74	9.84	45.5	100	360	Peak
5946.15	59.04	59.45	68.2	-9.16	35.14	9.95	45.5	100	360	Peak

CH 165

Horiontal	Vertical
	

802.11ac (40MHz)

CHANNEL	TX Channel 151	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	**EMISSION LEVEL (dBuV/m)**	**READ LEVEL (dBuV)**	**LIMIT (dBuV/m)**	**MARGIN (dB)**	**ANTENNA FACTOR (dB /m)**	**CABLE LOSS (dB)**	**PREAMP FACTOR (dB)**	**ANTENNA HEIGHT (cm)**	**TABLE ANGLE (Degree)**	**REMARK**
5755	96.29	96.79	/	/	35.11	9.89	45.5	100	55	Peak
5755	92.5	93	/	/	35.11	9.89	45.5	100	55	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	**EMISSION LEVEL (dBuV/m)**	**READ LEVEL (dBuV)**	**LIMIT (dBuV/m)**	**MARGIN (dB)**	**ANTENNA FACTOR (dB /m)**	**CABLE LOSS (dB)**	**PREAMP FACTOR (dB)**	**ANTENNA HEIGHT (cm)**	**TABLE ANGLE (Degree)**	**REMARK**
5755	96.29	96.99	/	/	34.91	9.89	45.5	160	355	Peak
5755	92.49	93.19	/	/	34.91	9.89	45.5	160	355	Average

REMARKS:

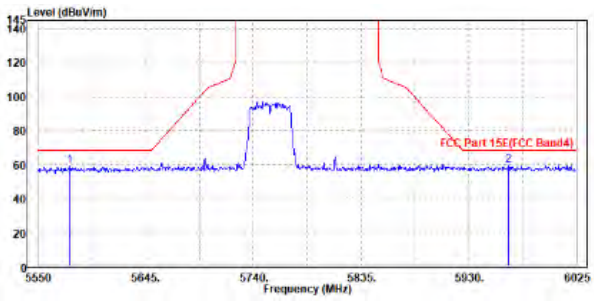
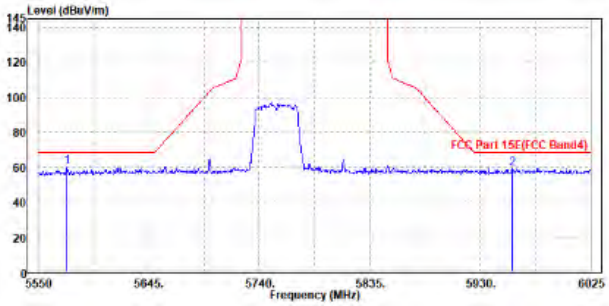
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5755MHz: Fundamental frequency.

OOBE DATA

802.11ac (40MHZ)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5578.025	58.95	59.73	68.2	-9.25	34.89	9.83	45.5	100	360	Peak
5965.15	59.66	59.84	68.2	-8.54	35.36	9.96	45.5	100	360	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5574.7	59.91	60.89	68.2	-8.29	34.69	9.83	45.5	100	0	Peak
5957.55	59.03	59.42	68.2	-9.17	35.15	9.96	45.5	100	0	Peak

CH 151

Horiontal	Vertical
	

CHANNEL	TX Channel 159	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5795	98.18	98.63	/	/	35.15	9.9	45.5	100	55	Peak
5795	94.16	94.61	/	/	35.15	9.9	45.5	100	55	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5795	98.41	99.06	/	/	34.95	9.9	45.5	160	355	Peak
5795	93.54	94.19	/	/	34.95	9.9	45.5	160	355	Average

REMARKS:

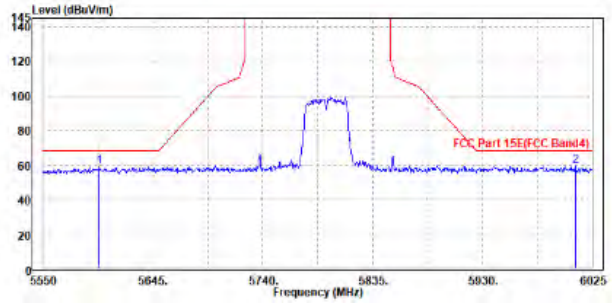
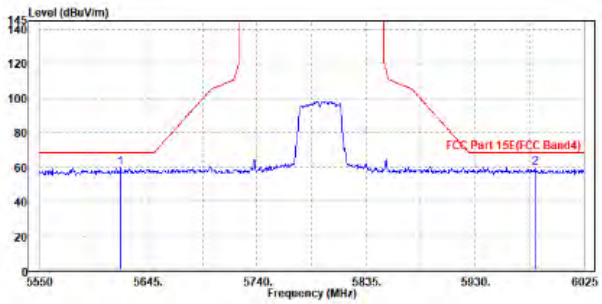
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5795MHz: Fundamental frequency.

OOBE DATA

802.11ac (40MHZ)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5598.45	59.17	59.92	68.2	-9.03	34.92	9.83	45.5	100	360	Peak
6010.275	59.5	59.62	68.2	-8.7	35.4	9.98	45.5	100	360	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5620.775	59.78	60.7	68.2	-8.42	34.74	9.84	45.5	100	0	Peak
5982.25	59.6	59.96	68.2	-8.6	35.18	9.96	45.5	100	0	Peak

CH 159

Horiontal	Vertical
	

802.11ac (80MHz)

CHANNEL	TX Channel 155	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5775	93.93	94.41	/	/	35.13	9.89	45.5	100	55	Peak
5775	90.22	90.7	/	/	35.13	9.89	45.5	100	55	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5775	94.18	94.86	/	/	34.93	9.89	45.5	160	355	Peak
5775	90.27	90.95	/	/	34.93	9.89	45.5	160	355	Average

REMARKS:

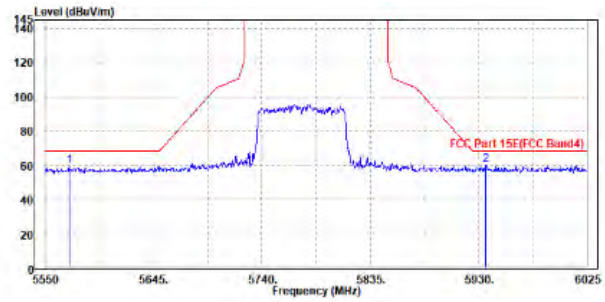
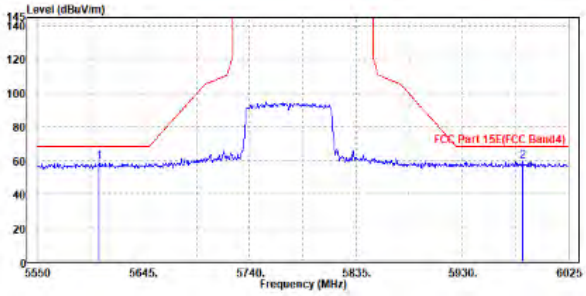
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5775MHz: Fundamental frequency.

OOBE DATA

802.11ac (80MHZ)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5570.9	59.37	60.16	68.2	-8.83	34.89	9.82	45.5	100	0	Peak
5936.175	59.83	60.06	68.2	-8.37	35.32	9.95	45.5	100	0	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5605.1	58.96	59.89	68.2	-9.24	34.73	9.84	45.5	100	360	Peak
5984.15	59.48	59.84	68.2	-8.72	35.18	9.96	45.5	100	360	Peak

CH 155

Horiontal	Vertical
	

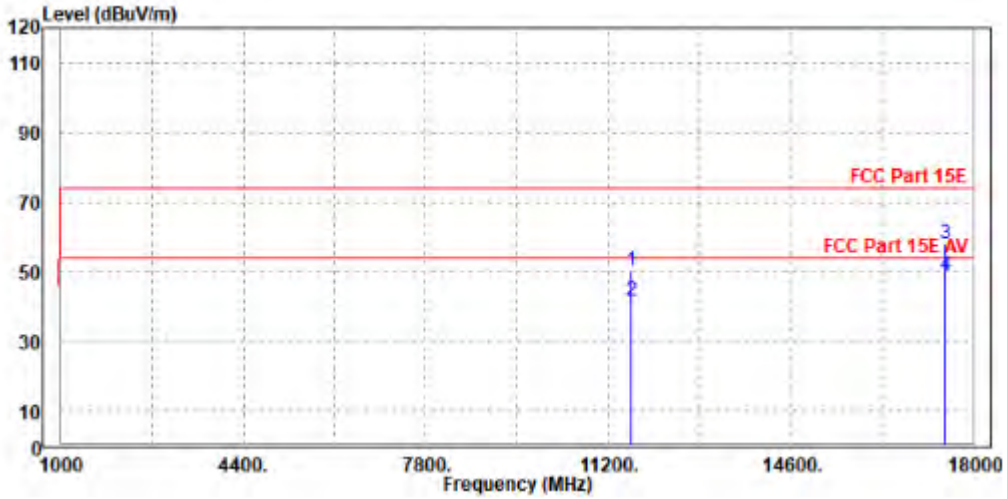
802.11ac (20MHZ)

Worst case harmonic:

CHANNEL	TX Channel 165	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

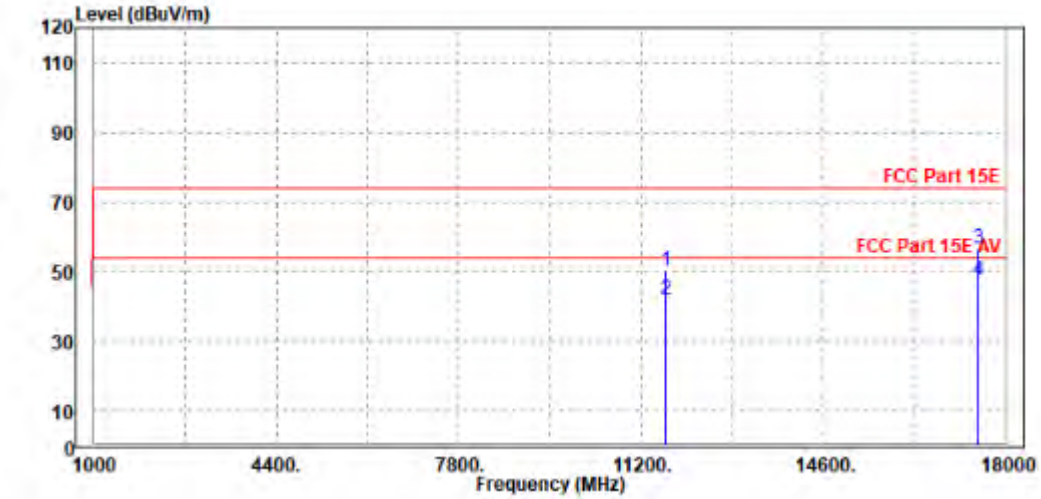
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1	11642.000	50.19	40.70	74.00	-23.81	9.49	Peak	Horizontal
2	11642.000	41.34	31.85	54.00	-12.66	9.49	Average	Horizontal
3	PK17475.000	57.89	39.51	74.00	-16.11	18.38	Peak	Horizontal
4	PP17475.000	48.67	30.29	54.00	-5.33	18.38	Average	Horizontal



ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1	11650.000	50.14	40.20	74.00	-23.86	9.94	Peak	Vertical
2	11650.000	41.87	31.93	54.00	-12.13	9.94	Average	Vertical
3	PK17473.000	56.48	39.14	74.00	-17.52	17.34	Peak	Vertical
4	PP17473.000	47.62	30.28	54.00	-6.38	17.34	Average	Vertical



REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5825MHz: Fundamental frequency.
3. For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.

3.2 CONDUCTED EMISSION MEASUREMENT

3.2.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dBμV)	
	Quasi-peak	Average
0.15 ~ 0.5	66 to 56	56 to 46
0.5 ~ 5	56	46
5 ~ 30	60	50

NOTE: 1. The lower limit shall apply at the transition frequencies.

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

3.2.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESR3	101900	Feb. 15,22	Feb. 14,23
EMC32 test software	Rohde&Schwarz	EMC32	NA	NA	NA
LISN network	Rohde&Schwarz	ENV216	101922	Mar. 04,22	Mar. 03,23

NOTE:

1. The test was performed in CE shielded room.
2. The calibration interval of the above test instruments is 12 months. And the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

3.2.3 TEST PROCEDURES

a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.

b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

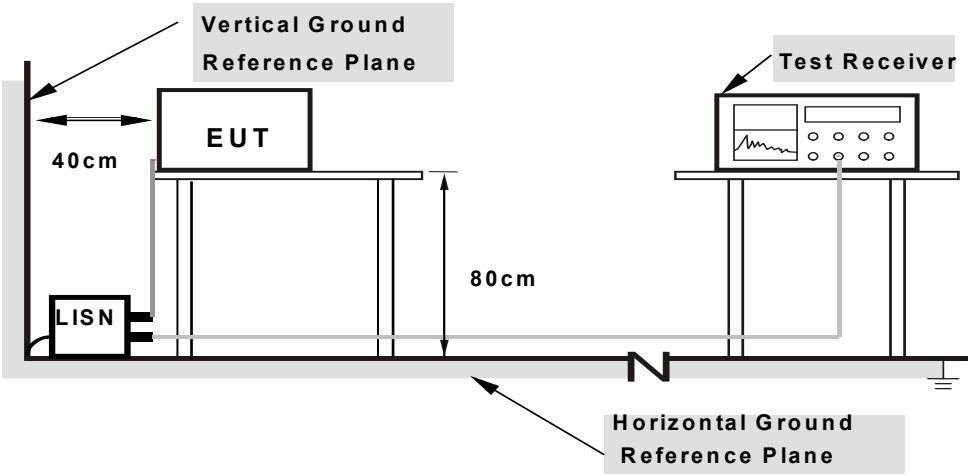
c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

NOTE: All modes of operation were investigated and the worst-case emissions are reported.

3.2.4 DEVIATION FROM TEST STANDARD

No deviation.

3.2.5 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

For the actual test configuration, please refer to the attached file (Test Setup Photo).

3.2.6 EUT OPERATING CONDITIONS

Same as 3.1.7.

3.2.7 TEST RESULTS

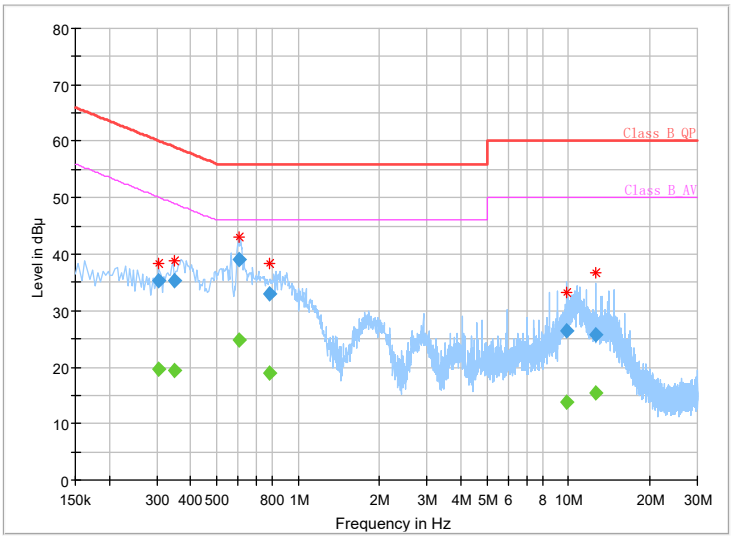
CONDUCTED WORST-CASE DATA:

Frequency Range	150KHz ~ 30MHz	**Detector Function & Resolution Bandwidth**	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120Vac, 60Hz	**Environmental Conditions**	26deg. C, 51%RH
Tested By	Carl Xie		

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.306000	---	19.70	50.08	30.38	L1	ON	9.7
0.306000	35.39	---	60.08	24.69	L1	ON	9.7
0.348000	---	19.46	49.01	29.55	L1	ON	9.7
0.348000	35.40	---	59.01	23.61	L1	ON	9.7
0.604000	---	24.72	46.00	21.28	L1	ON	9.7
0.604000	39.14	---	56.00	16.86	L1	ON	9.7
0.788000	---	18.98	46.00	27.02	L1	ON	9.7
0.788000	33.09	---	56.00	22.91	L1	ON	9.7
9.848000	---	13.86	50.00	36.14	L1	ON	9.7
9.848000	26.33	---	60.00	33.67	L1	ON	9.7
12.672000	---	15.45	50.00	34.55	L1	ON	9.8
12.672000	25.70	---	60.00	34.30	L1	ON	9.8

REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Limit value - Emission level
5. Correction factor = Insertion loss + Cable loss
6. Emission Level = Correction Factor + Reading Value.

Full Spectrum

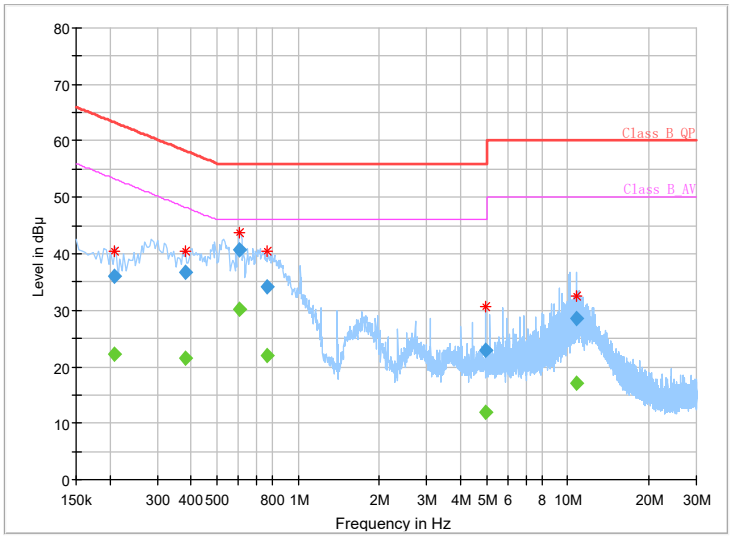


Frequency Range	150KHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120Vac, 60Hz	Environmental Conditions	26deg. C, 51%RH
Tested By	Carl Xie		

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.208000	---	22.11	53.29	31.18	N	ON	9.7
0.208000	36.09	---	63.29	27.20	N	ON	9.7
0.380000	---	21.44	48.28	26.84	N	ON	9.7
0.380000	36.67	---	58.28	21.61	N	ON	9.7
0.604000	---	30.18	46.00	15.82	N	ON	9.7
0.604000	40.73	---	56.00	15.27	N	ON	9.7
0.770000	---	22.05	46.00	23.95	N	ON	9.7
0.770000	34.16	---	56.00	21.84	N	ON	9.7
4.976000	---	11.85	46.00	34.15	N	ON	9.8
4.976000	22.97	---	56.00	33.03	N	ON	9.8
10.788000	---	17.13	50.00	32.87	N	ON	9.8
10.788000	28.44	---	60.00	31.56	N	ON	9.8

REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Limit value - Emission level
5. Correction factor = Insertion loss + Cable loss
6. Emission Level = Correction Factor + Reading Value.

Full Spectrum



3.3 MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

3.3.1 LIMITS OF MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

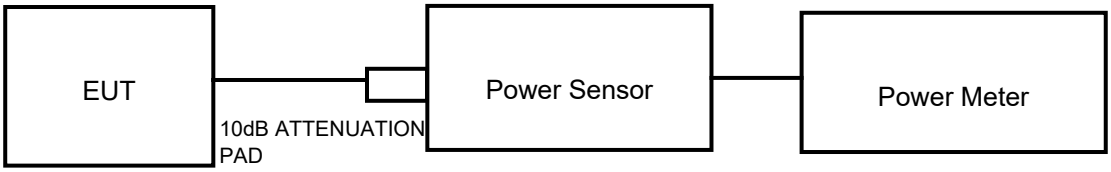
Operation Band	EUT Category		LIMIT
U-NII-1		Outdoor Access Point	1 Watt (30 dBm) (Max. e.i.r.p ≦ 125mW(21 dBm) at any elevation angle above 30 degrees as measured from the horizon)
		Fixed point-to-point Access Point	1 Watt (30 dBm)
		Indoor Access Point	1 Watt (30 dBm)
	√	Client devices	250mW (24 dBm)
U-NII-2A	√		250mW (24 dBm) or 11 dBm+10 log B*
U-NII-2C	√		250mW (24 dBm) or 11 dBm+10 log B*
U-NII-3	√		1 Watt (30 dBm)

NOTE: Where B is the 26dB emission bandwidth in MHz.

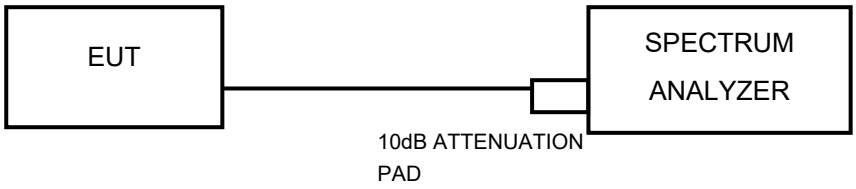
3.3.2 TEST SETUP

FOR POWER OUTPUT MEASUREMENT

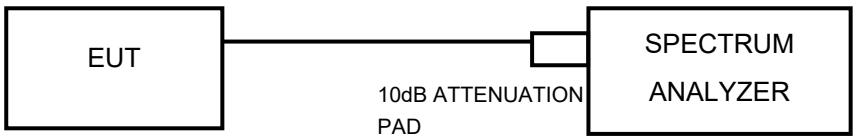
802.11a, 802.11n/ac (20MHz), 802.11 n/ac (40MHz) TEST CONFIGURATION



11ac (80MHz) TEST CONFIGURATION



FOR 26dB BANDWIDTH



3.3.3 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Power Meter	ANRITSU	ML2495A	1506002	Feb. 22,22	Feb. 21,23
EXA Signal Analyzer	KEYSIGHT	N9010A-526	MY54510322	Feb. 18,22	Feb. 17,23
EXA Signal Analyzer	KEYSIGHT	N9010A-544	MY54510355	May.15,22	May.14,23
Power Sensor	ANRITSU	MA2411B	1339352	May. 06,22	May. 05,23

NOTE:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
2. The test was performed in RF Oven room.

3.3.4 TEST PROCEDURE

FOR POWER MEASUREMENT

For 802.11a, 802.11 n/ac (20MHz), 802.11 n/ac (40MHz)

Method PM is used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst. Duty factor is not added to measured value.

For 802.11ac (80MHz)

1. Measure the duty cycle, x, of the transmitter output signal as described in II.B.
2. Set span to encompass the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal.
3. Set RBW = 1 MHz.
4. Set VBW ≥ 3 MHz.
5. Number of points in sweep ≥ 2 × span / RBW. (This ensures that bin-to-bin spacing is ≤ RBW/2, so that narrowband signals are not lost between frequency bins.)
6. Sweep time = auto.
7. Detector = power averaging (rms), if available. Otherwise, use sample detector mode.
8. Do not use sweep triggering. Allow the sweep to “free run.”
9. Trace average at least 100 traces in power averaging (rms) mode; however, the number of traces to be averaged shall be increased above 100 as needed to ensure that the average accurately represents the true average over the on and off periods of the transmitter.
10. Add 10 log (1/x), where x is the duty cycle, to the measured power to compute the average power during the actual transmission times (because the measurement represents an average over both the on and off times of the transmission). For example, add 10 log (1/0.25) = 6 dB if the duty cycle is 25%.

FOR 99 PERCENT OCCUPIED BANDWIDTH

The following procedure shall be used for measuring (99 %) power bandwidth:

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

FOR 26dB BANDWIDTH

1) Set RBW = approximately 1% of the emission bandwidth.
2) Set the VBW > RBW.
3) Detector = Peak.
4) Trace mode = max hold.
5) Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

FOR 6dB BANDWIDTH

1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) ≥ 3 RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

3.3.5 DEVIATION FROM TEST STANDARD

No deviation.

3.3.6 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at specific channel frequencies individually.

3.3.7 TEST RESULTS

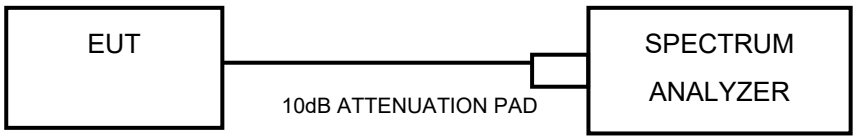
Please Refer to Appendix A Of this test report.

3.4 MAXIMUM POWER SPECTRAL DENSITY MEASUREMENT

3.4.1 LIMITS OF MAXIMUM POWER SPECTRAL DENSITY MEASUREMENT

Operation Band	EUT Category		LIMIT
U-NII-1		Outdoor Access Point	17dBm/ MHz
		Fixed point-to-point Access Point	
		Indoor Access Point	
	√	Client devices	11dBm/ MHz
U-NII-2A	√		11dBm/ MHz
U-NII-2C	√		11dBm/ MHz
U-NII-3	√		30dBm/ 500kHz

3.4.2 TEST SETUP



3.4.3 TEST INSTRUMENTS

Refer to section 3.3.3 to get information of above instrument.

3.4.4 TEST PROCEDURES

Using method SA-2

1) Set span to encompass the entire emission bandwidth (EBW) of the signal.
2) Set RBW = 1 MHz, Set VBW ≥ 3 MHz, Detector = RMS
3) Set Channel power measure = 1MHz
4) Sweep time = auto, trigger set to “free run”.
5) Trace average at least 100 traces in power averaging mode.
6) Add 10 log (1/x), where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times (because the measurement represents an average over both the on and off times of the transmission).
7) Record the max value

3.4.5 DEVIATION FROM TEST STANDARD

No deviation.

3.4.6 EUT OPERATING CONDITIONS

Same as 3.1.7.

3.4.7 TEST RESULTS

Please Refer to Appendix A Of this test report.

3.5 AUTOMATICALLY DISCONTINUE TRANSMISSION

3.5.1 LIMIT OF AUTOMATICALLY DISCONTINUE TRANSMISSION

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signalling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met.

3.5.2 TEST INSTRUMENTS

Refer to section 3.3.3 to get information of above instrument.

3.5.3 TEST RESULT

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving。 The EUT can detect the controlling of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission

4 PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).

5 MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No modifications were made to the EUT by the lab during the test.

6 APPENDIX A

RLAN

EMISSION BANDWIDTH

TEST RESULT

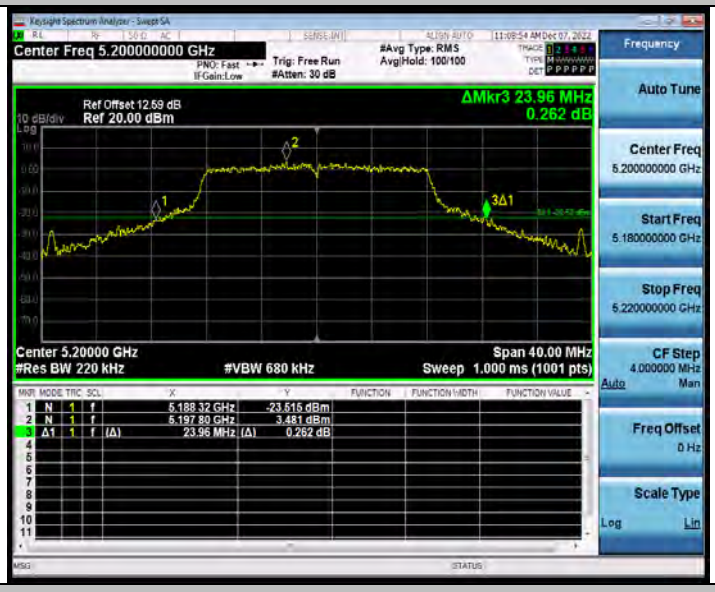
TestMode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	24.240	5167.960	5192.200	---	---
		5200	23.960	5188.320	5212.280	---	---
		5240	23.360	5228.960	5252.320	---	---
		5260	23.720	5248.680	5272.400	---	---
		5300	23.760	5288.960	5312.720	---	---
		5320	23.800	5309.000	5332.800	---	---
		5500	24.160	5488.200	5512.360	---	---
		5580	23.400	5568.880	5592.280	---	---
		5700	23.520	5688.880	5712.400	---	---
		5720	24.720	5707.640	5732.360	---	---
		5720_UNII-2C	17.36	5707.640	5725	---	---
		5720_UNII-3	7.36	5725	5732.360	---	---
		5745	23.720	5733.560	5757.280	---	---
		5785	24.520	5772.720	5797.240	---	---
		5825	23.960	5813.440	5837.400	---	---
11N20SISO	Ant1	5180	23.080	5168.880	5191.960	---	---
		5200	22.560	5188.840	5211.400	---	---
		5240	22.760	5229.200	5251.960	---	---
		5260	24.000	5248.040	5272.040	---	---
		5300	21.960	5289.400	5311.360	---	---
		5320	23.920	5308.120	5332.040	---	---
		5500	23.440	5488.640	5512.080	---	---
		5580	22.760	5568.600	5591.360	---	---
		5700	24.040	5687.960	5712.000	---	---
		5720	26.760	5706.120	5732.880	---	---
		5720_UNII-2C	18.88	5706.120	5725	---	---
		5720_UNII-3	7.88	5725	5732.880	---	---
		5745	26.400	5731.480	5757.880	---	---

		5785	25.880	5771.960	5797.840	---	---
		5825	22.960	5813.040	5836.000	---	---
11N40SISO	Ant1	5190	41.440	5169.520	5210.960	---	---
		5230	41.280	5209.840	5251.120	---	---
		5270	41.120	5249.600	5290.720	---	---
		5310	40.960	5289.680	5330.640	---	---
		5510	41.440	5489.200	5530.640	---	---
		5550	41.840	5529.600	5571.440	---	---
		5670	41.760	5648.640	5690.400	---	---
		5710	41.680	5688.960	5730.640	---	---
		5710_UNII-2C	36.04	5688.960	5725	---	---
		5710_UNII-3	5.64	5725	5730.640	---	---
		5755	41.920	5733.720	5775.640	---	---
		5795	41.280	5774.200	5815.480	---	---
11AC20SISO	Ant1	5180	24.440	5167.800	5192.240	---	---
		5200	23.960	5187.880	5211.840	---	---
		5240	22.640	5228.760	5251.400	---	---
		5260	23.120	5248.680	5271.800	---	---
		5300	23.880	5288.520	5312.400	---	---
		5320	25.440	5307.480	5332.920	---	---
		5500	22.960	5488.840	5511.800	---	---
		5580	22.720	5568.400	5591.120	---	---
		5700	28.280	5686.120	5714.400	---	---
		5720	25.600	5706.960	5732.560	---	---
		5720_UNII-2C	18.04	5706.960	5725	---	---
		5720_UNII-3	7.56	5725	5732.560	---	---
		5745	25.480	5732.400	5757.880	---	---
		5785	25.000	5772.280	5797.280	---	---
		5825	23.880	5813.000	5836.880	---	---
11AC40SISO	Ant1	5190	40.640	5169.840	5210.480	---	---
		5230	41.840	5209.360	5251.200	---	---
		5270	40.960	5249.680	5290.640	---	---
		5310	41.600	5288.880	5330.480	---	---
		5510	41.760	5488.800	5530.560	---	---
		5550	41.680	5528.800	5570.480	---	---

		5670	41.840	5648.720	5690.560	---	---
		5710	41.680	5689.040	5730.720	---	---
		5710_UNII-2C	35.96	5689.040	5725	---	---
		5710_UNII-3	5.72	5725	5730.720	---	---
		5755	41.360	5733.880	5775.240	---	---
		5795	41.920	5773.720	5815.640	---	---
11AC80SISO	Ant1	5210	86.080	5167.280	5253.360	---	---
		5290	103.520	5244.720	5348.240	---	---
		5530	100.160	5472.080	5572.240	---	---
		5610	88.480	5564.560	5653.040	---	---
		5690	100.320	5633.360	5733.680	---	---
		5690_UNII-2C	91.64	5633.360	5725	---	---
		5690_UNII-3	8.68	5725	5733.680	---	---
		5775	101.440	5716.440	5817.880	---	---

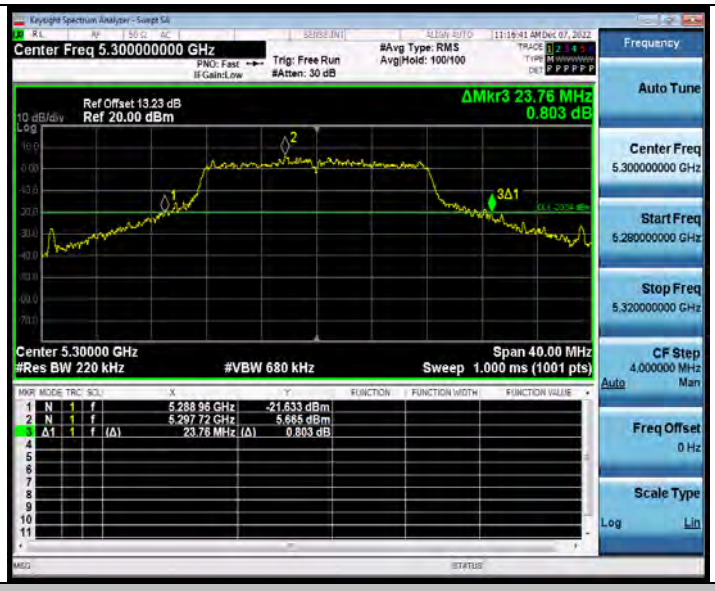
TEST GRAPHS

11A_Ant1_5180

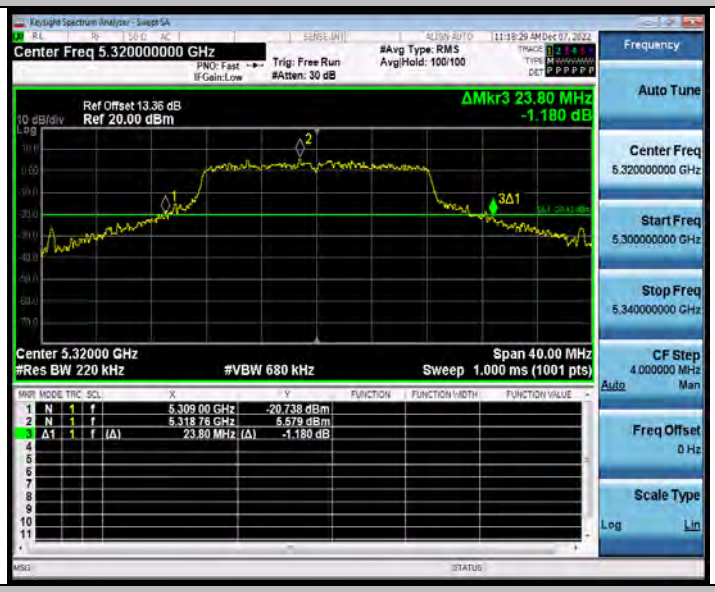
11A_Ant1_5200

11A_Ant1_5240

11A_Ant1_5260

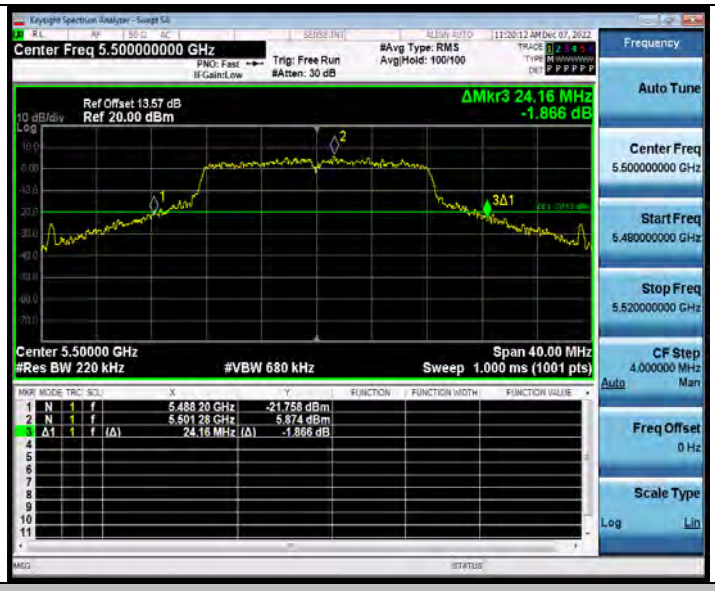
11A_Ant1_5300



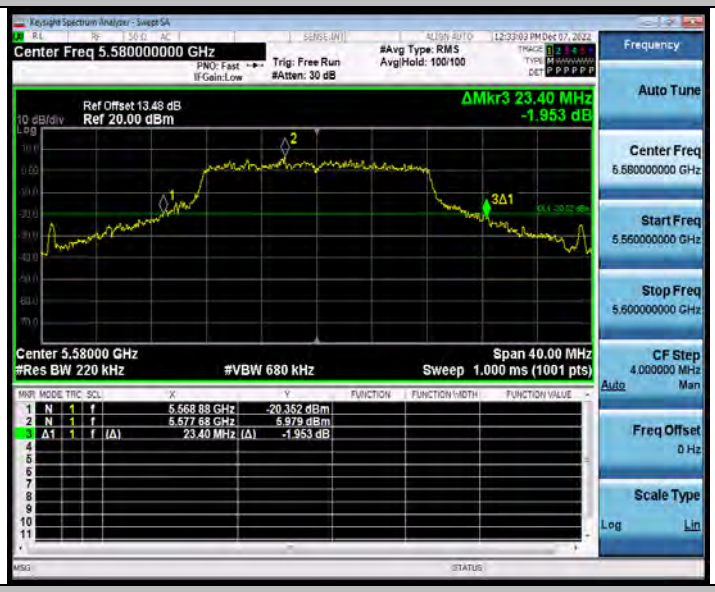
11A_Ant1_5320



11A_Ant1_5500

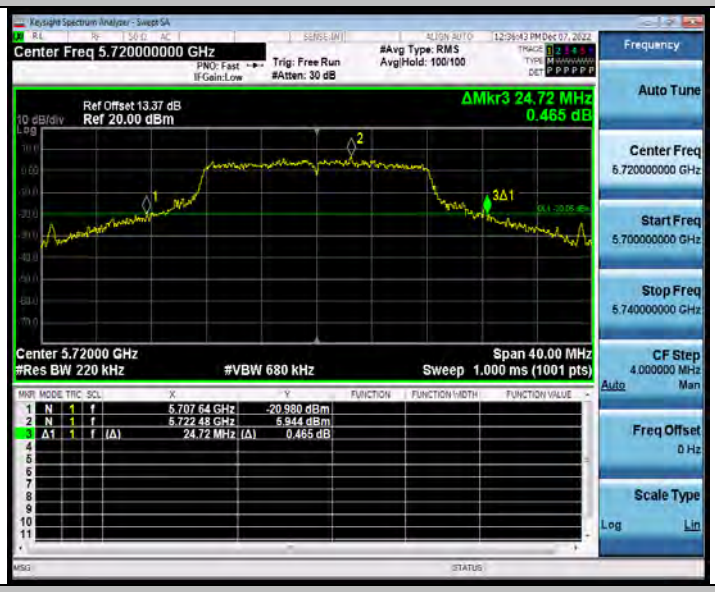


11A_Ant1_5580



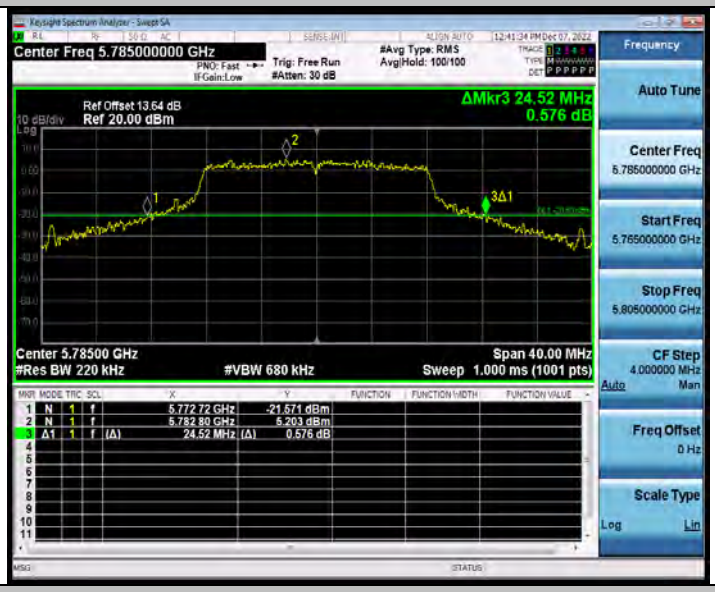
11A_Ant1_5700

11A_Ant1_5720

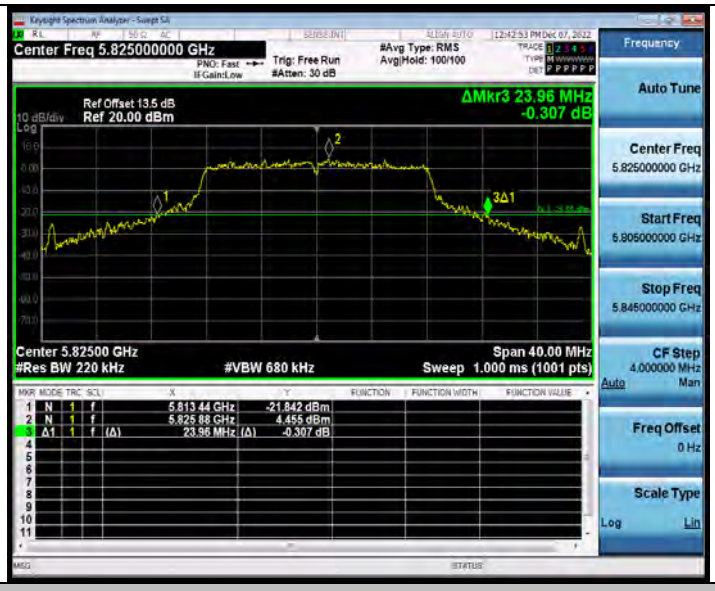


11A_Ant1_5745

11A_Ant1_5785



11A_Ant1_5825

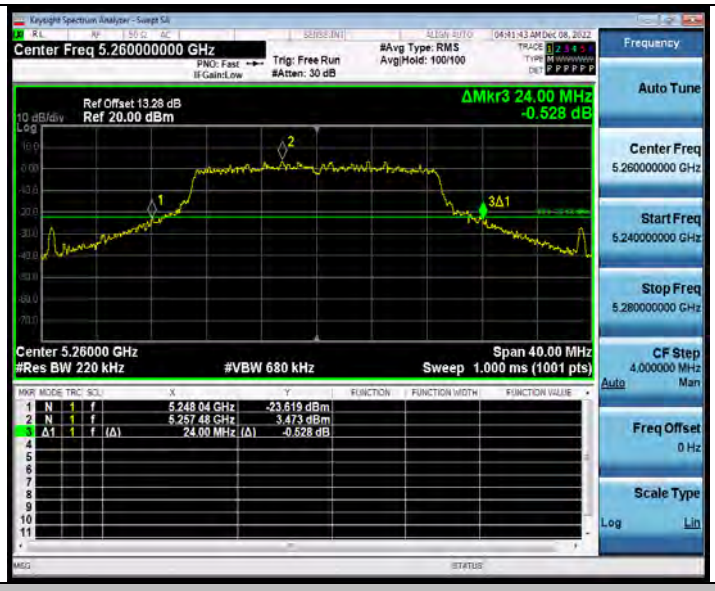


11N20SISO_Ant1_5180

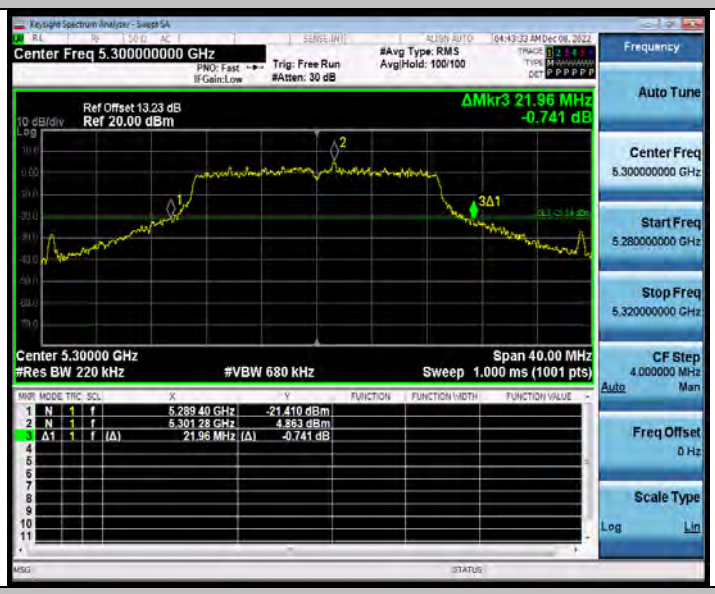
11N20SISO_Ant1_5200

11N20SISO_Ant1_5240

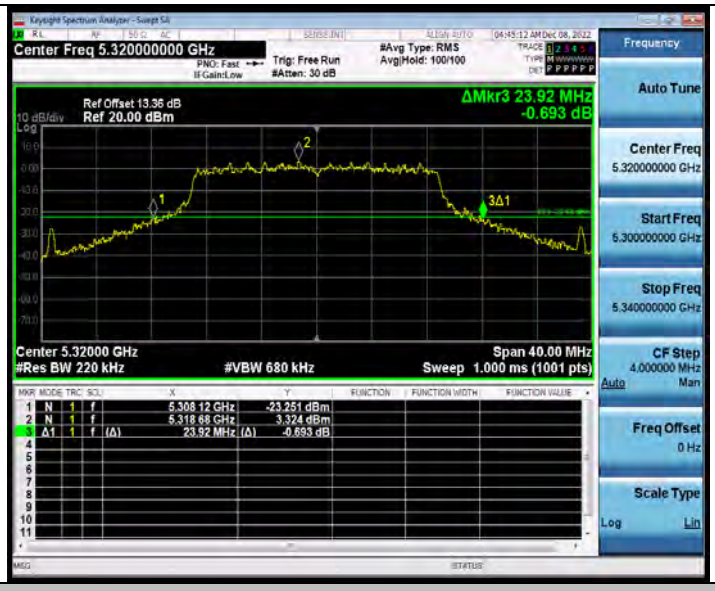
11N20SISO_Ant1_5260



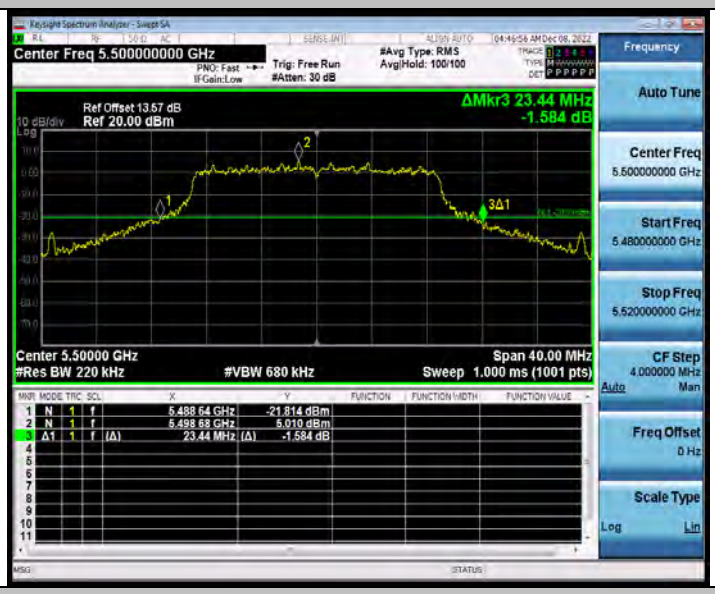
11N20SISO_Ant1_5300



11N20SISO_Ant1_5320

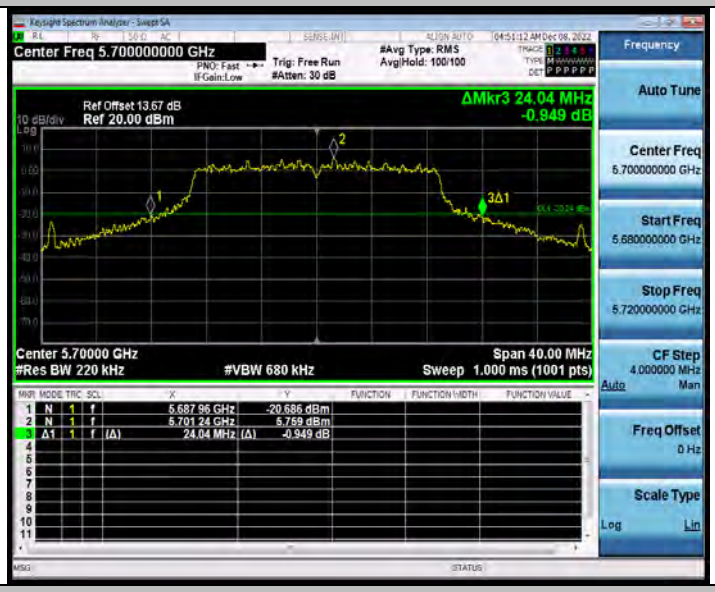


11N20SISO_Ant1_5500



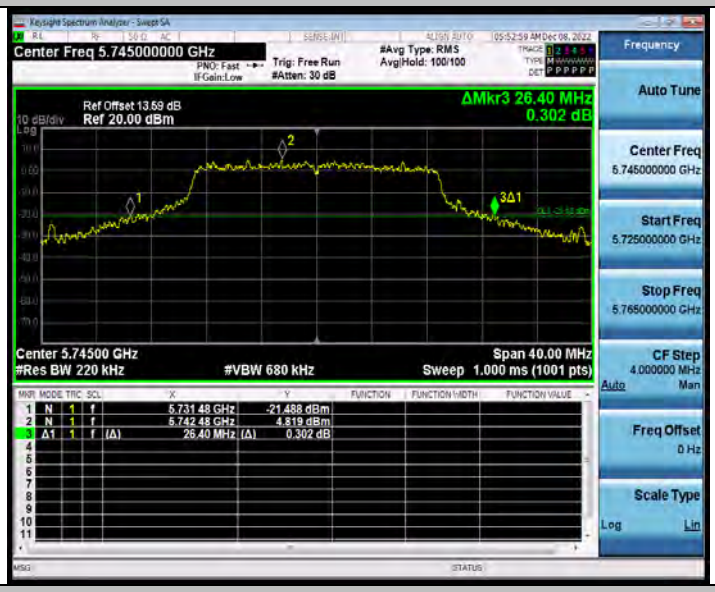
11N20SISO_Ant1_5580

11N20SISO_Ant1_5700

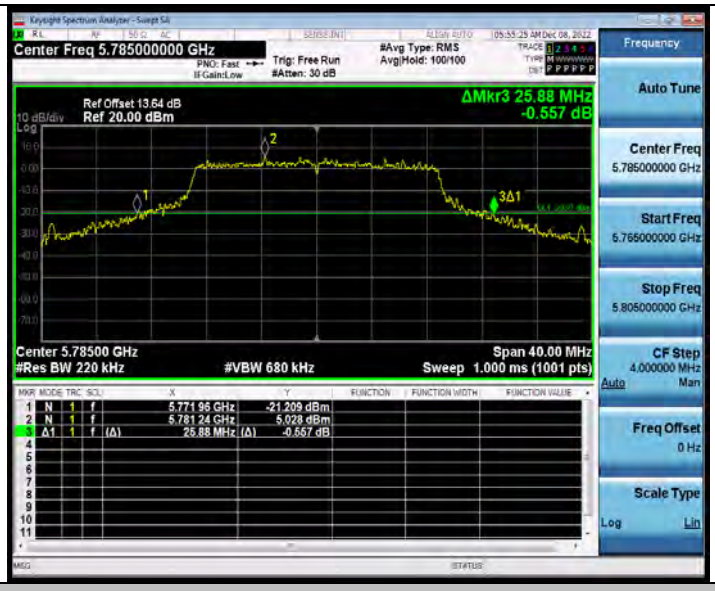


11N20SISO_Ant1_5720

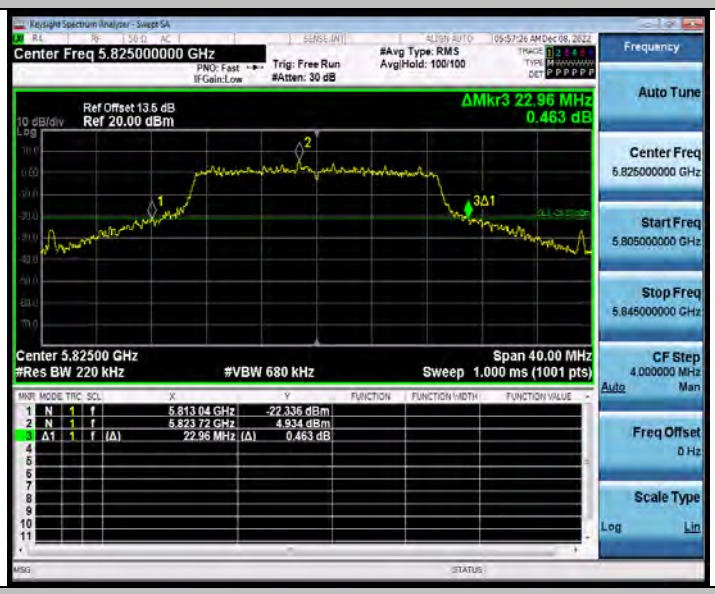
11N20SISO_Ant1_5745



11N20SISO_Ant1_5785

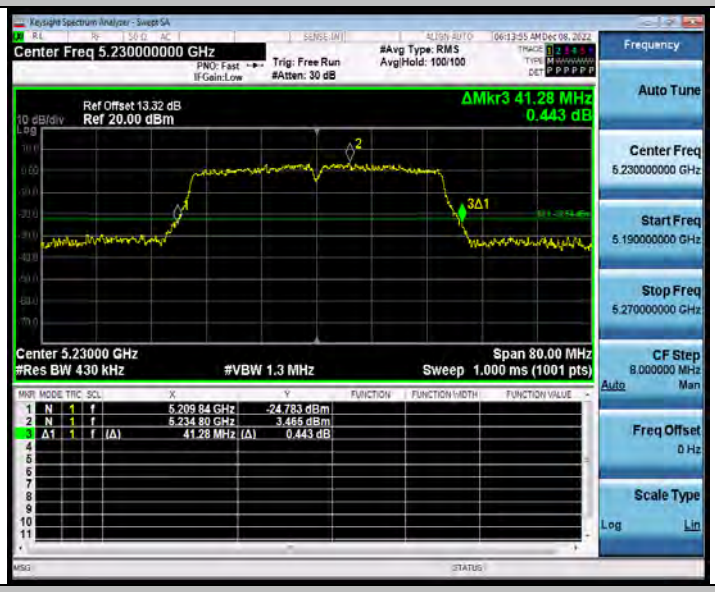


11N20SISO_Ant1_5825

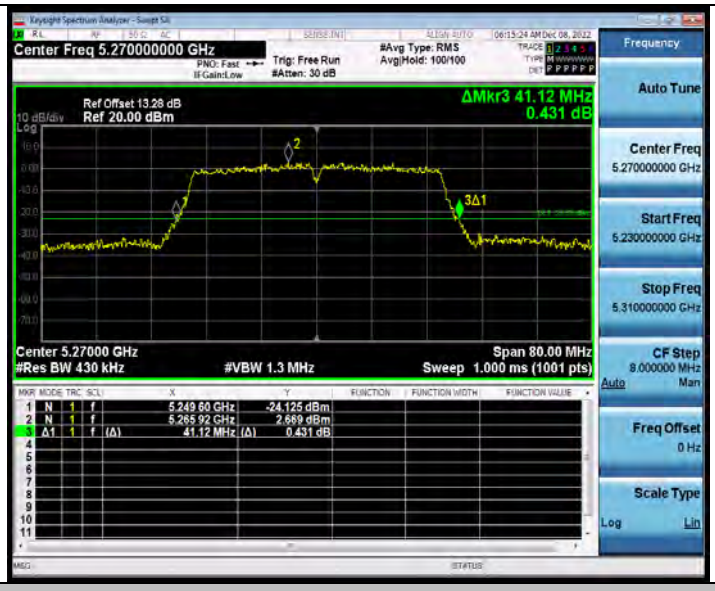


11N40SISO_Ant1_5190

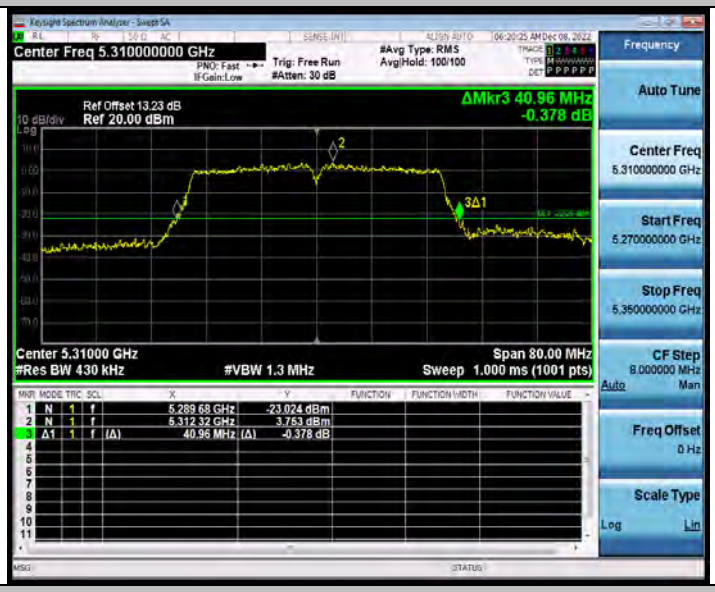
11N40SISO_Ant1_5230



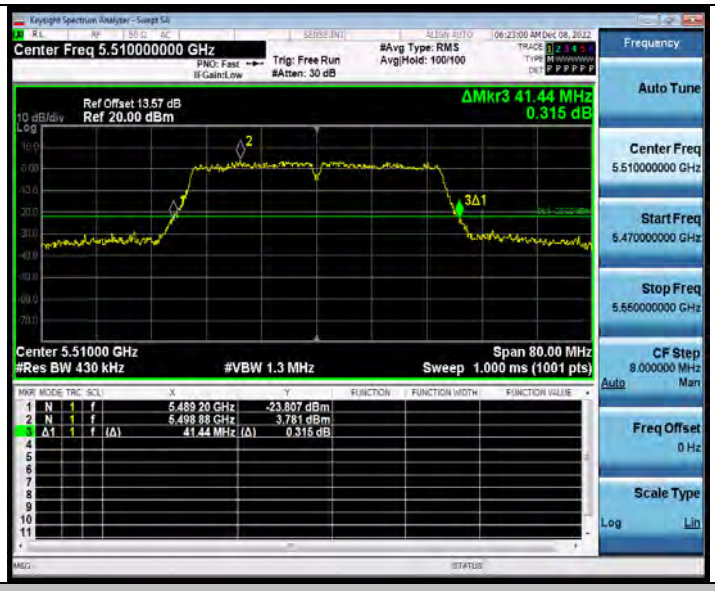
11N40SISO_Ant1_5270



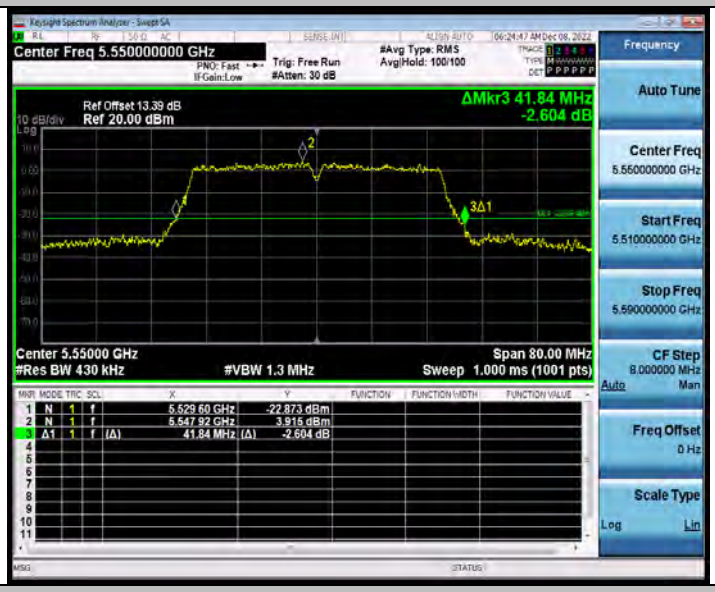
11N40SISO_Ant1_5310



11N40SISO_Ant1_5510

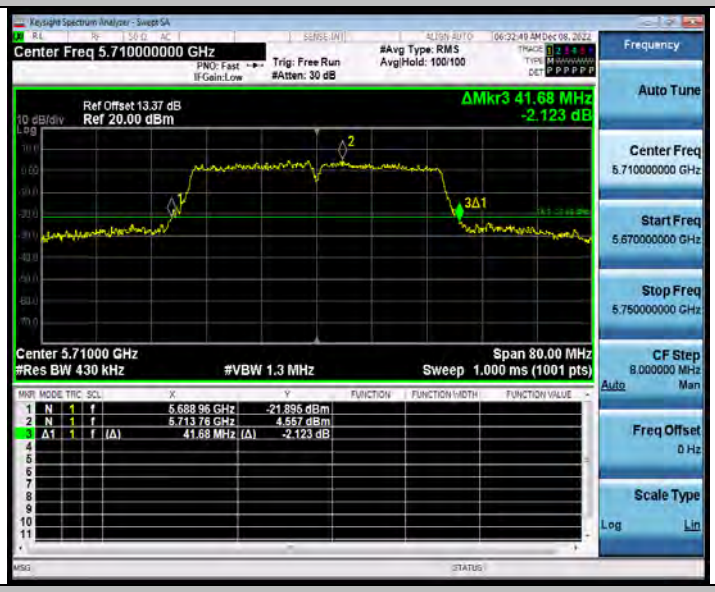


11N40SISO_Ant1_5550



11N40SISO_Ant1_5670

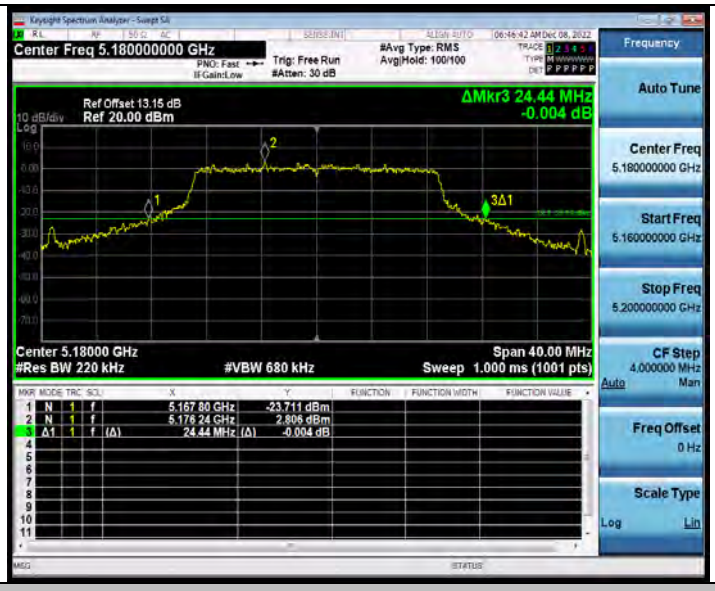
11N40SISO_Ant1_5710



11N40SISO_Ant1_5755

11N40SISO_Ant1_5795

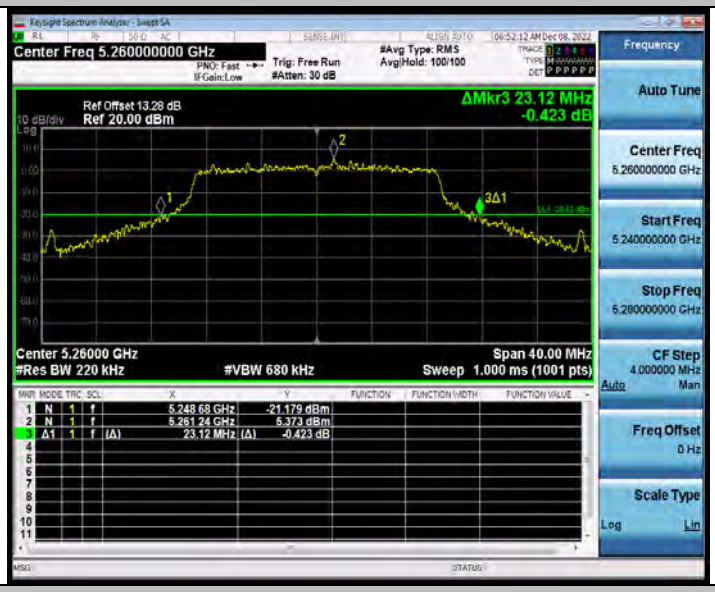
11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5200

11AC20SISO_Ant1_5240

11AC20SISO_Ant1_5260



11AC20SISO_Ant1_5300

11AC20SISO_Ant1_5320

11AC20SISO_Ant1_5500

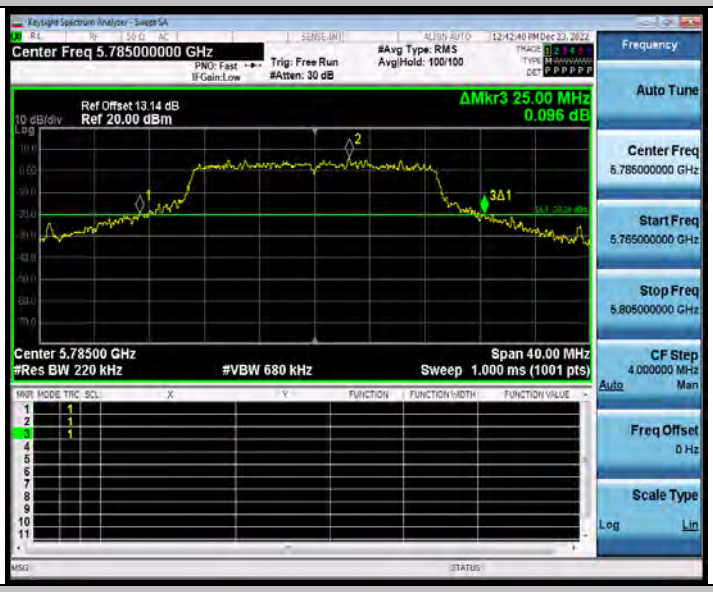
11AC20SISO_Ant1_5580

11AC20SISO_Ant1_5700

11AC20SISO_Ant1_5720

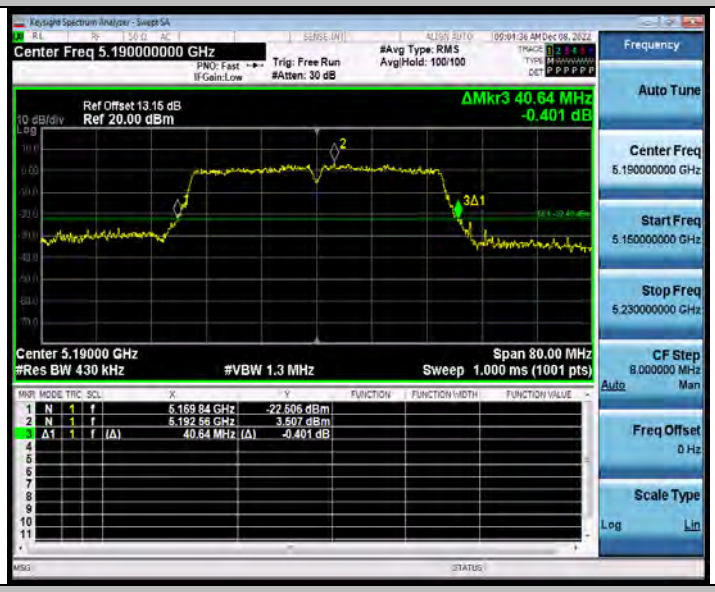
11AC20SISO_Ant1_5745

11AC20SISO_Ant1_5785

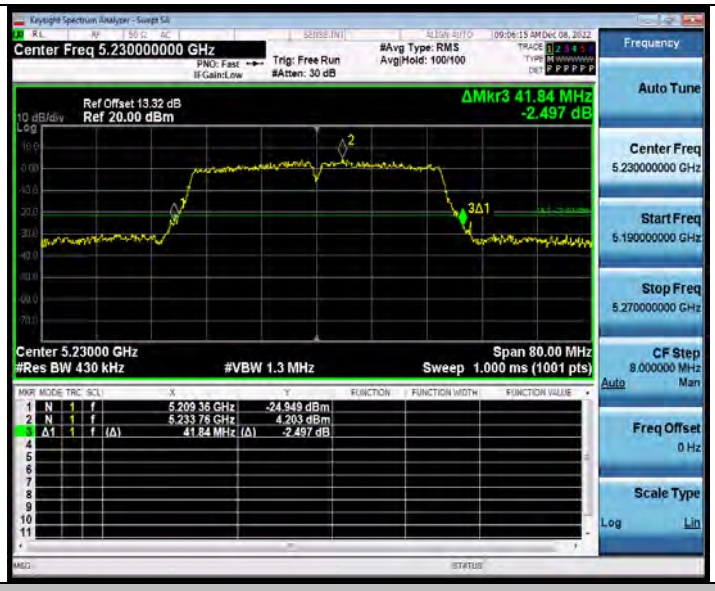


11AC20SISO_Ant1_5825

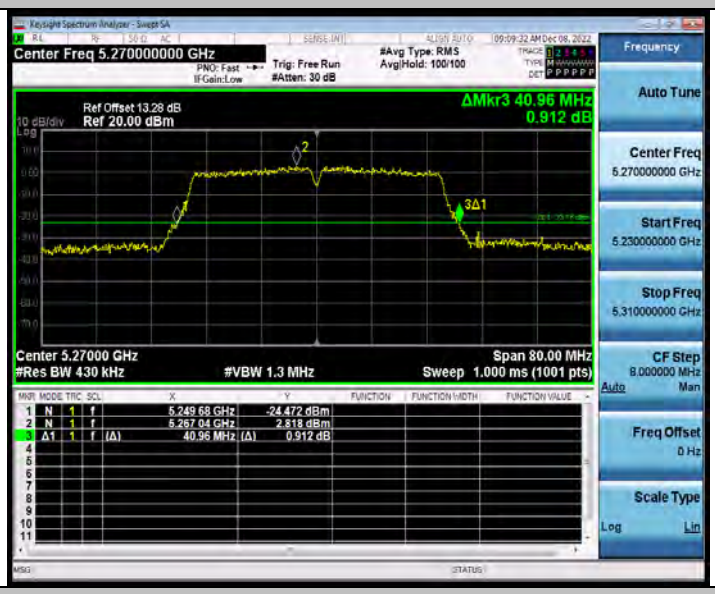
11AC40SISO_Ant1_5190



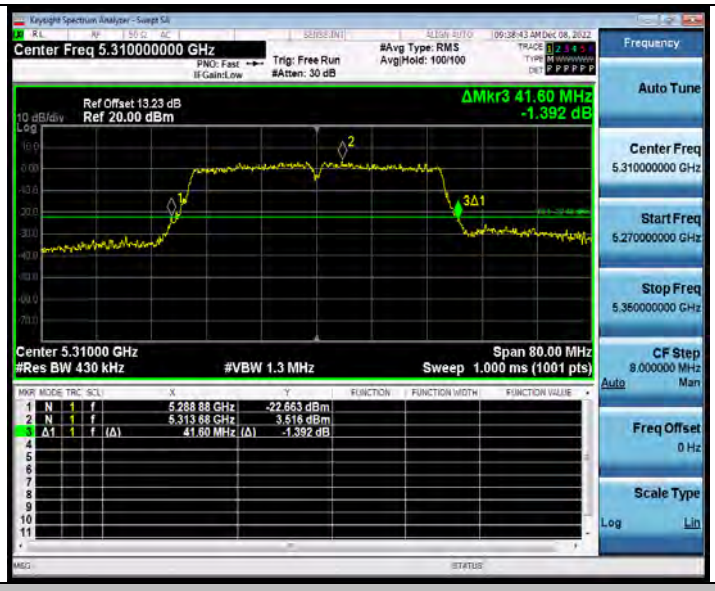
11AC40SISO_Ant1_5230



11AC40SISO_Ant1_5270

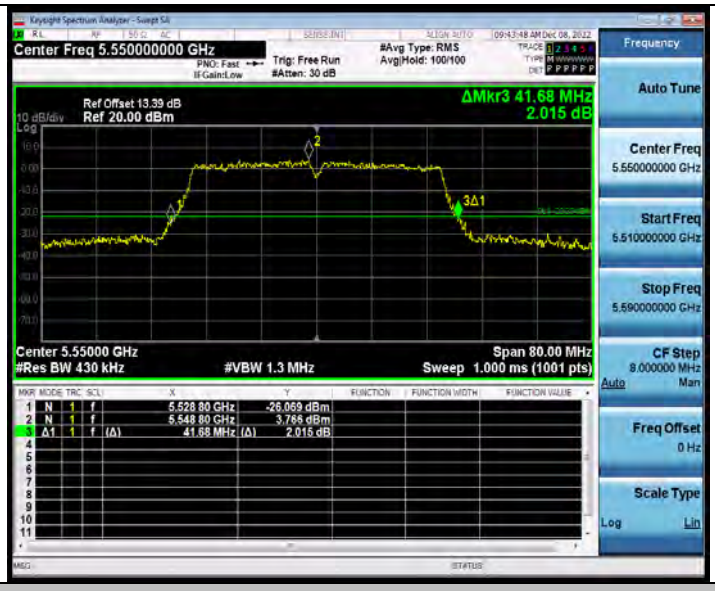


11AC40SISO_Ant1_5310

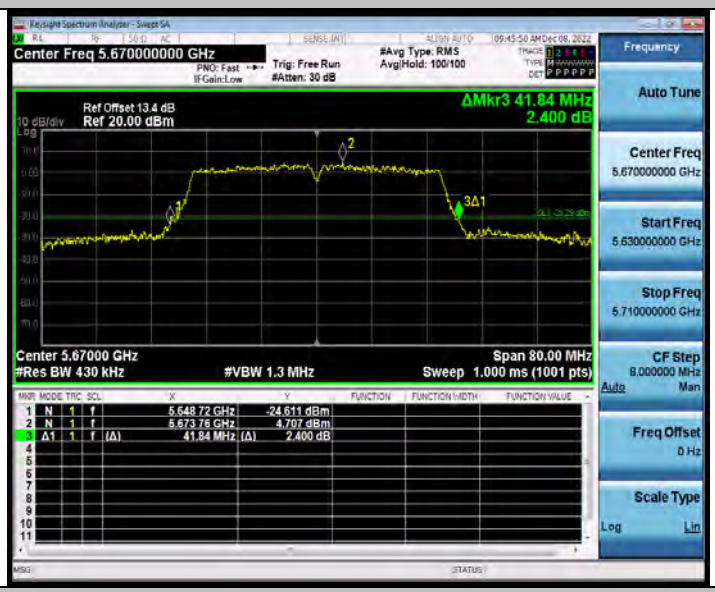


11AC40SISO_Ant1_5510

11AC40SISO_Ant1_5550

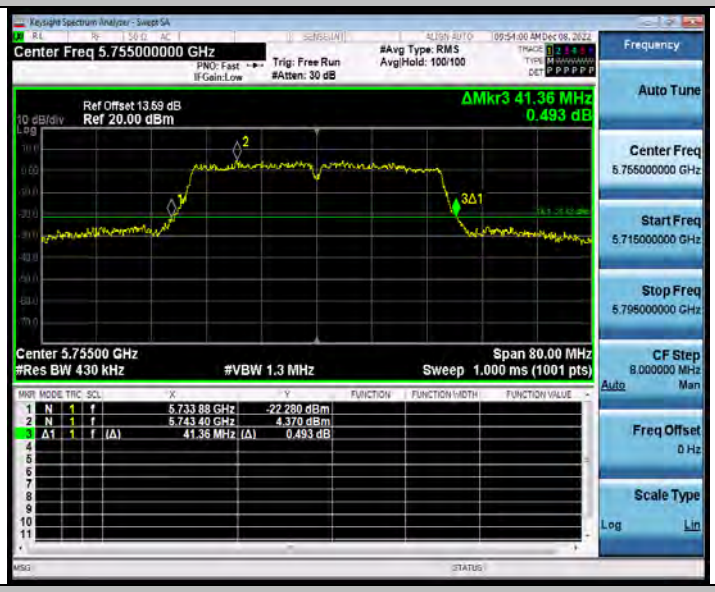


11AC40SISO_Ant1_5670



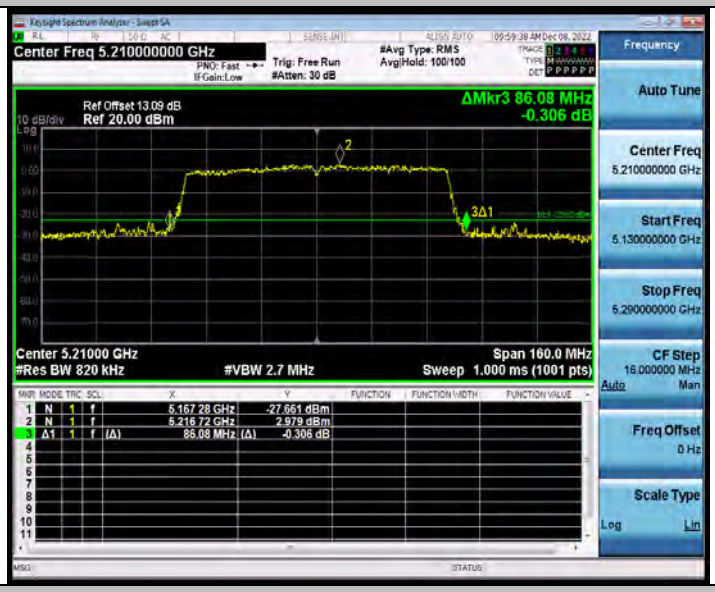
11AC40SISO_Ant1_5710

11AC40SISO_Ant1_5755



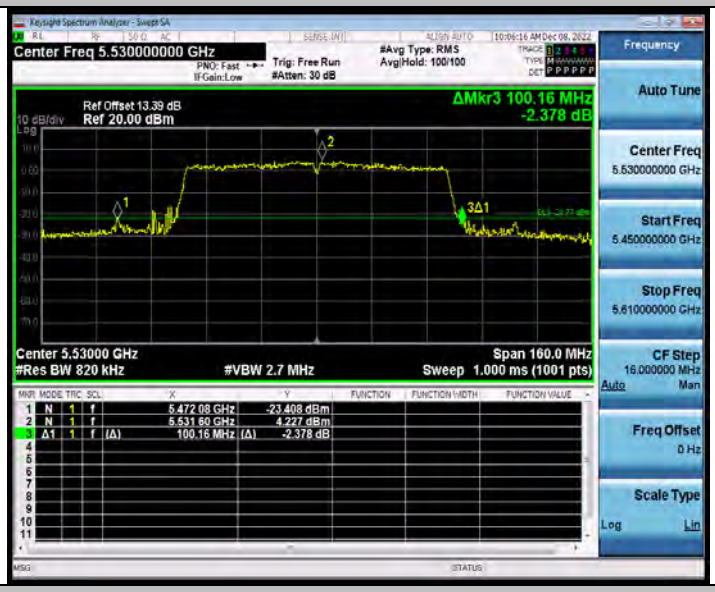
11AC40SISO_Ant1_5795

11AC80SISO_Ant1_5210

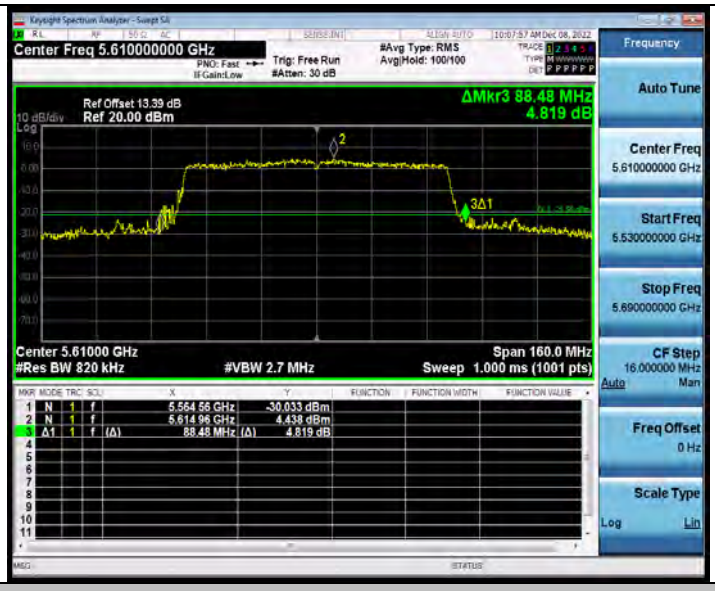


11AC80SISO_Ant1_5290

11AC80SISO_Ant1_5530

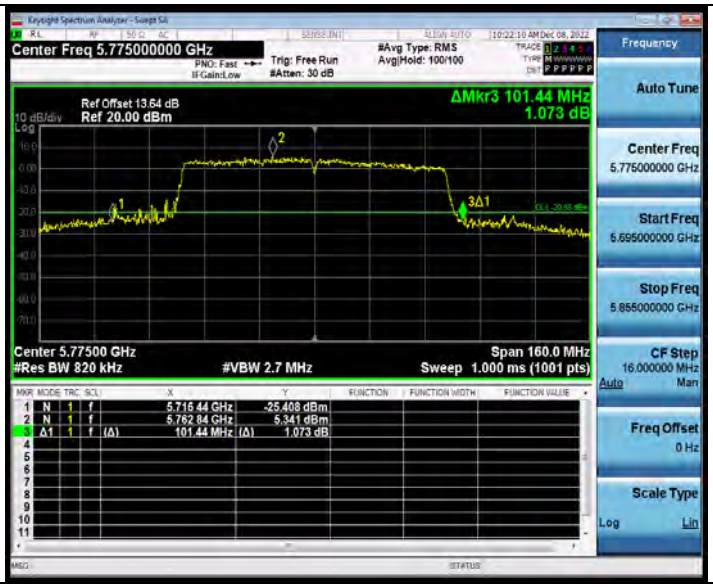


11AC80SISO_Ant1_5610



11AC80SISO_Ant1_5690

11AC80SISO_Ant1_5775


Center Freq 5.775000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 100/100
Ref Offset 13.64 dB
10 dB/div
Ref 20.00 dBm
ΔMkr3 101.44 MHz
1.073 dB
Center 5.77500 GHz
#Res BW 820 kHz
#VBW 2.7 MHz
Span 160.0 MHz
Sweep 1.000 ms (1001 pts)
1 N 1 f 5.716 44 GHz -25.408 dBm
2 N 1 f 5.762 84 GHz 5.341 dBm
3 Δ1 1 f (Δ) 101.44 MHz (Δ) 1.073 dB
Frequency
Auto Tune
Center Freq
5.775000000 GHz
Start Freq
5.695000000 GHz
Stop Freq
5.855000000 GHz
CF Step
16.000000 MHz
Auto
Man
Freq Offset
0 Hz
Scale Type
Log
Lin

OCCUPIED CHANNEL BANDWIDTH

TEST RESULT

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	16.980	5171.4698	5188.4498	---	---
		5200	16.976	5191.5176	5208.4936	---	---
		5240	16.902	5231.5735	5248.4755	---	---
		5260	16.948	5251.5413	5268.4893	---	---
		5300	17.002	5291.5376	5308.5396	---	---
		5320	17.069	5311.4939	5328.5629	---	---
		5500	17.030	5491.4643	5508.4943	---	---
		5580	17.018	5571.4517	5588.4697	---	---
		5700	17.083	5691.4487	5708.5317	---	---
		5720	17.124	5711.4151	5728.5391	---	---
		5720_UNII-2C	13.585	5711.4151	5725	---	---
		5720_UNII-3	3.539	5725	5728.5391	---	---
		5745	17.092	5736.4042	5753.4962	---	---
		5785	17.129	5776.3758	5793.5048	---	---
		5825	17.011	5816.4740	5833.4850	---	---
11N20SISO	Ant1	5180	18.163	5170.8912	5189.0542	---	---
		5200	18.186	5190.9243	5209.1103	---	---
		5240	18.171	5230.9348	5249.1058	---	---
		5260	18.182	5250.9035	5269.0855	---	---
		5300	18.176	5290.9186	5309.0946	---	---
		5320	18.170	5310.9081	5329.0781	---	---
		5500	18.214	5490.8661	5509.0801	---	---
		5580	18.185	5570.9007	5589.0857	---	---
		5700	18.294	5690.8210	5709.1150	---	---
		5720	18.290	5710.8560	5729.1460	---	---
		5720_UNII-2C	14.144	5710.8560	5725	---	---
		5720_UNII-3	4.146	5725	5729.1460	---	---
		5745	18.246	5735.8407	5754.0867	---	---
		5785	18.228	5775.8200	5794.0480	---	---
		5825	18.160	5815.8794	5834.0394	---	---
11N40SISO	Ant1	5190	36.487	5171.8091	5208.2961	---	---

		5230	36.413	5211.8827	5248.2957	---	---
		5270	36.448	5251.8954	5288.3434	---	---
		5310	36.459	5291.8841	5328.3431	---	---
		5510	36.497	5491.7873	5528.2843	---	---
		5550	36.564	5531.7408	5568.3048	---	---
		5670	36.475	5651.7877	5688.2627	---	---
		5710	36.597	5691.7366	5728.3336	---	---
		5710_UNII-2C	33.263	5691.7366	5725	---	---
		5710_UNII-3	3.334	5725	5728.3336	---	---
		5755	36.536	5736.7078	5773.2438	---	---
		5795	36.508	5776.6580	5813.1660	---	---
11AC20SISO	Ant1	5180	18.190	5170.9140	5189.1040	---	---
		5200	18.060	5190.9879	5209.0479	---	---
		5240	18.064	5230.9693	5249.0333	---	---
		5260	18.094	5251.0217	5269.1157	---	---
		5300	18.097	5291.0151	5309.1121	---	---
		5320	18.223	5310.9341	5329.1571	---	---
		5500	18.127	5490.9285	5509.0555	---	---
		5580	18.141	5570.9177	5589.0587	---	---
		5700	18.304	5690.8323	5709.1363	---	---
		5720	18.305	5710.8636	5729.1686	---	---
		5720_UNII-2C	14.136	5710.8636	5725	---	---
		5720_UNII-3	4.169	5725	5729.1686	---	---
		5745	18.332	5735.8239	5754.1559	---	---
		5785	18.303	5775.8190	5794.1220	---	---
		5825	18.179	5815.9278	5834.1068	---	---
11AC40SISO	Ant1	5190	36.465	5171.8195	5208.2845	---	---
		5230	36.364	5211.9072	5248.2712	---	---
		5270	36.344	5251.9010	5288.2450	---	---
		5310	36.424	5291.8845	5328.3085	---	---
		5510	36.459	5491.7776	5528.2366	---	---
		5550	36.475	5531.7631	5568.2381	---	---
		5670	36.487	5651.7590	5688.2460	---	---
		5710	36.509	5691.7524	5728.2614	---	---
		5710_UNII-2C	33.248	5691.7524	5725	---	---

		5710_UNII-3	3.261	5725	5728.2614	---	---
		5755	36.484	5736.7046	5773.1886	---	---
		5795	36.415	5776.6904	5813.1054	---	---
11AC80SISO	Ant1	5210	75.947	5172.1127	5248.0597	---	---
		5290	75.992	5252.2135	5328.2055	---	---
		5530	75.957	5491.9365	5567.8935	---	---
		5610	76.070	5571.8577	5647.9277	---	---
		5690	76.085	5651.8209	5727.9059	---	---
		5690_UNII-2C	73.179	5651.8209	5725	---	---
		5690_UNII-3	2.906	5725	5727.9059	---	---
		5775	76.106	5736.5402	5812.6462	---	---

TEST GRAPHS

11A_Ant1_5180

11A_Ant1_5200

11A_Ant1_5240

11A_Ant1_5260

11A_Ant1_5300

11A_Ant1_5320

11A_Ant1_5500

11A_Ant1_5580

11A_Ant1_5700

11A_Ant1_5720

11A_Ant1_5745

11A_Ant1_5785

11A_Ant1_5825

11N20SISO_Ant1_5180

11N20SISO_Ant1_5200

11N20SISO_Ant1_5240

11N20SISO_Ant1_5260

11N20SISO_Ant1_5300

11N20SISO_Ant1_5320

11N20SISO_Ant1_5500

11N20SISO_Ant1_5580

11N20SISO_Ant1_5700

11N20SISO_Ant1_5720

11N20SISO_Ant1_5745

11N20SISO_Ant1_5785

11N20SISO_Ant1_5825

11N40SISO_Ant1_5190

11N40SISO_Ant1_5230

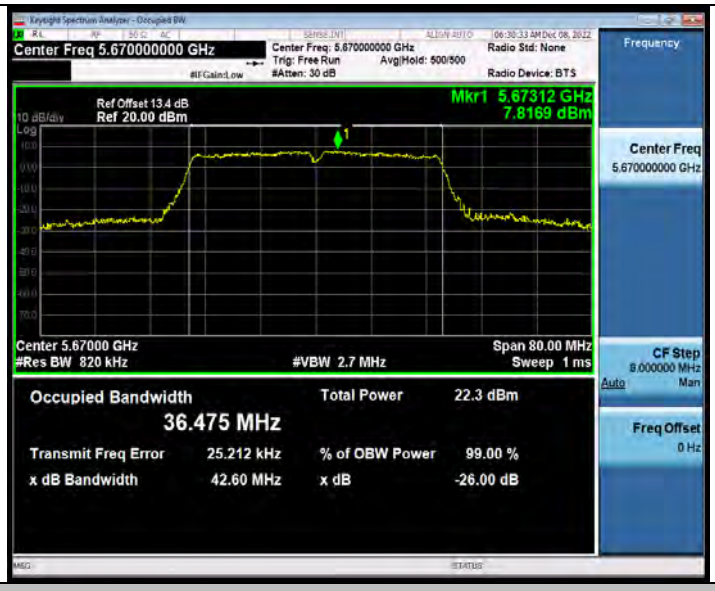
11N40SISO_Ant1_5270

11N40SISO_Ant1_5310

11N40SISO_Ant1_5510

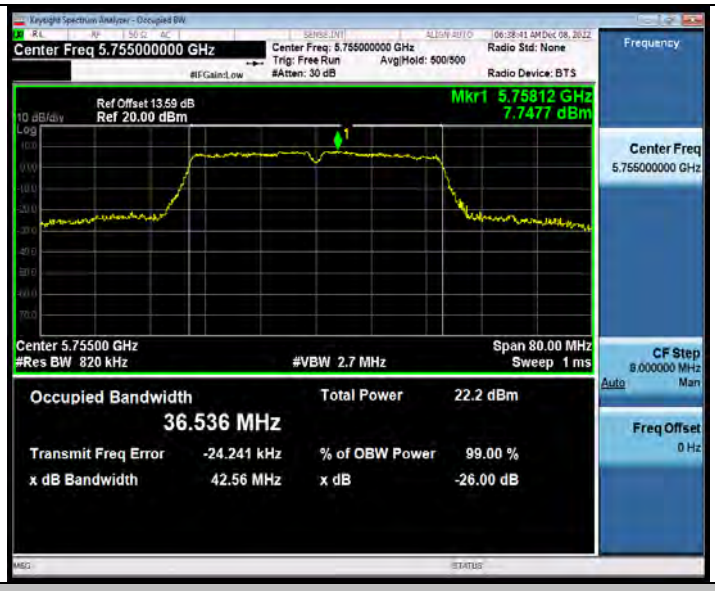
11N40SISO_Ant1_5550

11N40SISO_Ant1_5670



11N40SISO_Ant1_5710

11N40SISO_Ant1_5755



11N40SISO_Ant1_5795

11AC20SISO_Ant1_5180

11AC20SISO_Ant1_5200

11AC20SISO_Ant1_5240

11AC20SISO_Ant1_5260

11AC20SISO_Ant1_5300

11AC20SISO_Ant1_5320

11AC20SISO_Ant1_5500

11AC20SISO_Ant1_5580

11AC20SISO_Ant1_5700

11AC20SISO_Ant1_5720

11AC20SISO_Ant1_5745

11AC20SISO_Ant1_5785

11AC20SISO_Ant1_5825

11AC40SISO_Ant1_5190

11AC40SISO_Ant1_5230

11AC40SISO_Ant1_5270

11AC40SISO_Ant1_5310

11AC40SISO_Ant1_5510

11AC40SISO_Ant1_5550

11AC40SISO_Ant1_5670

11AC40SISO_Ant1_5710

11AC40SISO_Ant1_5755

11AC40SISO_Ant1_5795

11AC80SISO_Ant1_5210

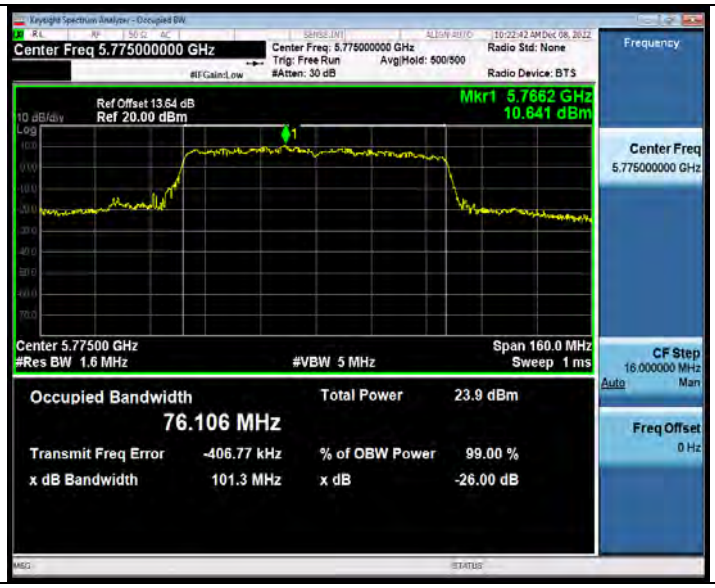
11AC80SISO_Ant1_5290

11AC80SISO_Ant1_5530

11AC80SISO_Ant1_5610

11AC80SISO_Ant1_5690

11AC80SISO_Ant1_5775

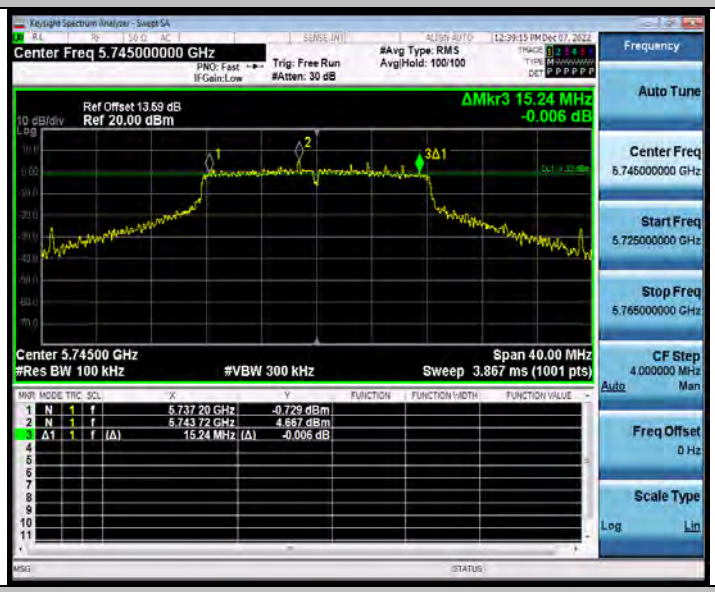
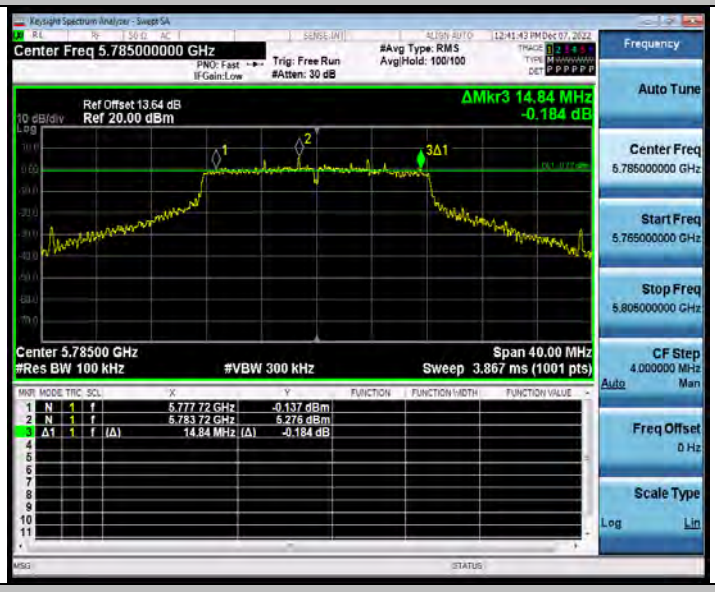

Center Freq 5.775000000 GHz
Center Freq: 5.775000000 GHz
Trig: Free Run
Avg|Hold: 500/500
#Atten: 30 dB
Radio Std: None
Radio Device: BTS
Frequency
Ref Offset 13.64 dB
10 dB/div
Ref 20.00 dBm
Mkr1 5.7662 GHz
10.641 dBm
Center Freq
5.775000000 GHz
Center 5.77500 GHz
#Res BW 1.6 MHz
#VBW 5 MHz
Span 160.0 MHz
Sweep 1 ms
CF Step
16.000000 MHz
Auto
Man
Occupied Bandwidth
76.106 MHz
Total Power 23.9 dBm
Transmit Freq Error -406.77 kHz
% of OBW Power 99.00 %
x dB Bandwidth 101.3 MHz
x dB -26.00 dB
Freq Offset
0 Hz

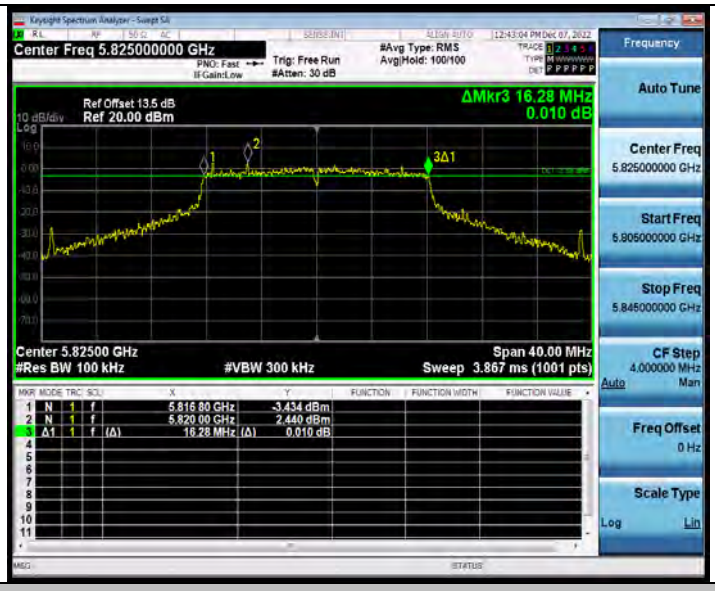
MIN EMISSION BANDWIDTH

TEST RESULT B4

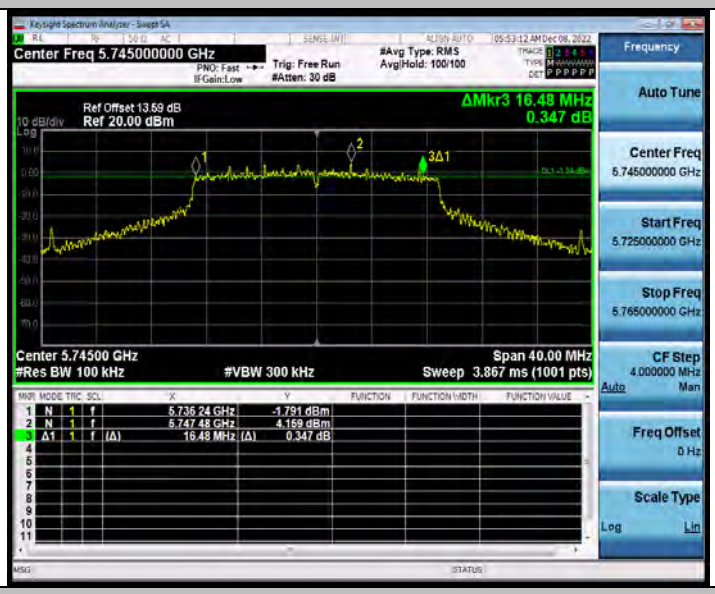
TestMode	Antenna	Frequency[MHz]	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	15.240	5737.200	5752.440	0.5	PASS
		5785	14.840	5777.720	5792.560	0.5	PASS
		5825	16.280	5816.800	5833.080	0.5	PASS
11N20SISO	Ant1	5745	16.480	5736.240	5752.720	0.5	PASS
		5785	15.080	5777.480	5792.560	0.5	PASS
		5825	16.960	5816.480	5833.440	0.5	PASS
11N40SISO	Ant1	5755	35.680	5736.840	5772.520	0.5	PASS
		5795	35.600	5776.840	5812.440	0.5	PASS
11AC20SISO	Ant1	5745	17.560	5736.200	5753.760	0.5	PASS
		5785	16.880	5776.240	5793.120	0.5	PASS
		5825	16.880	5816.560	5833.440	0.5	PASS
11AC40SISO	Ant1	5755	35.440	5737.080	5772.520	0.5	PASS
		5795	35.440	5777.080	5812.520	0.5	PASS
11AC80SISO	Ant1	5775	75.360	5737.240	5812.600	0.5	PASS

TEST GRAPHS B4

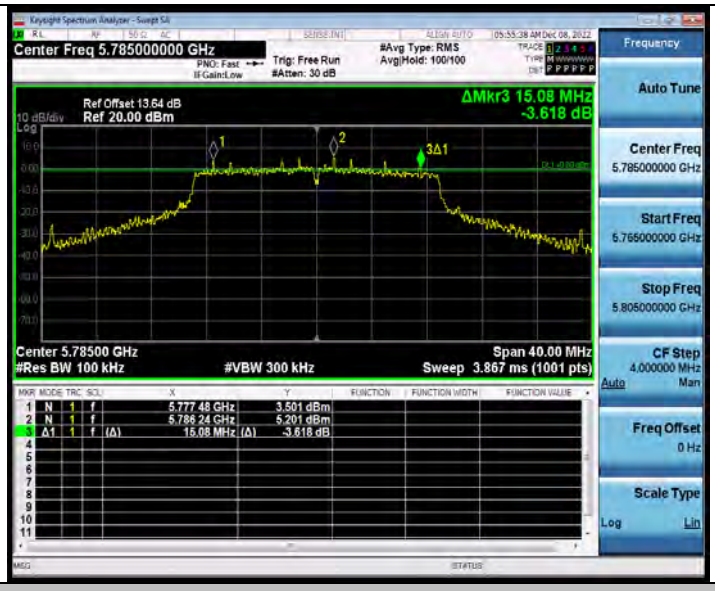
11A_Ant1_5745

11A_Ant1_5785

11A_Ant1_5825



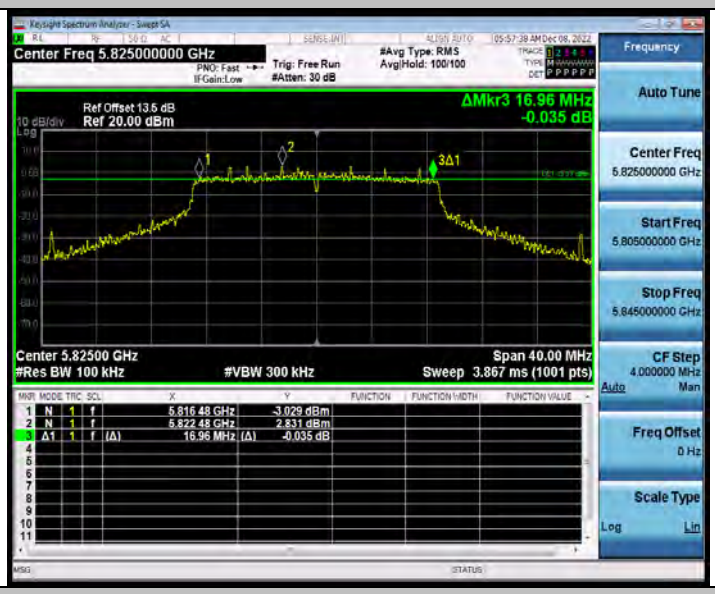
11N20SISO_Ant1_5745



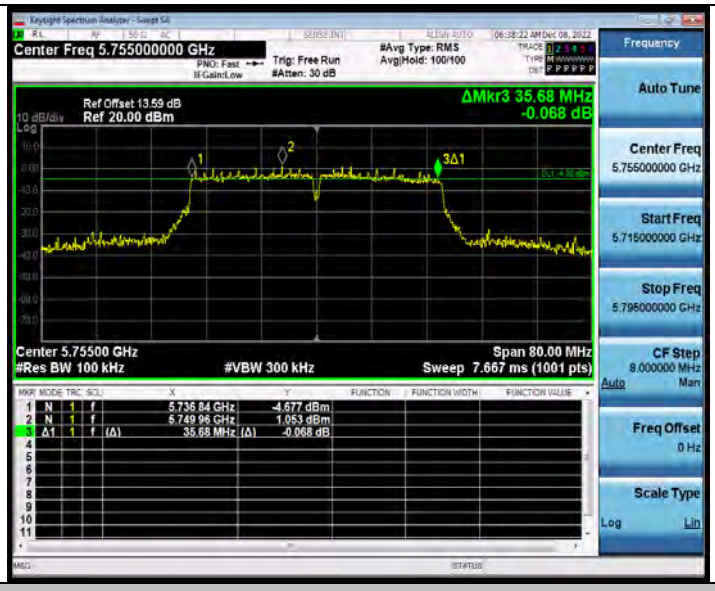
11N20SISO_Ant1_5785



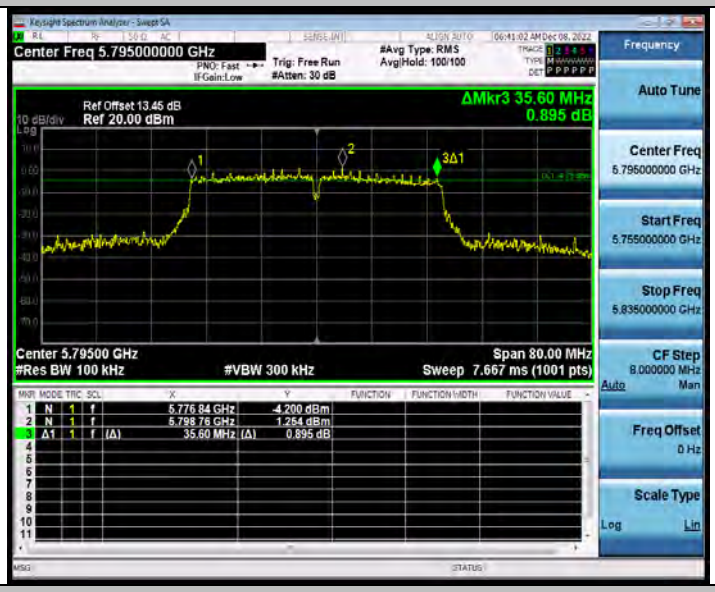
11N20SISO_Ant1_5825



11N40SISO_Ant1_5755

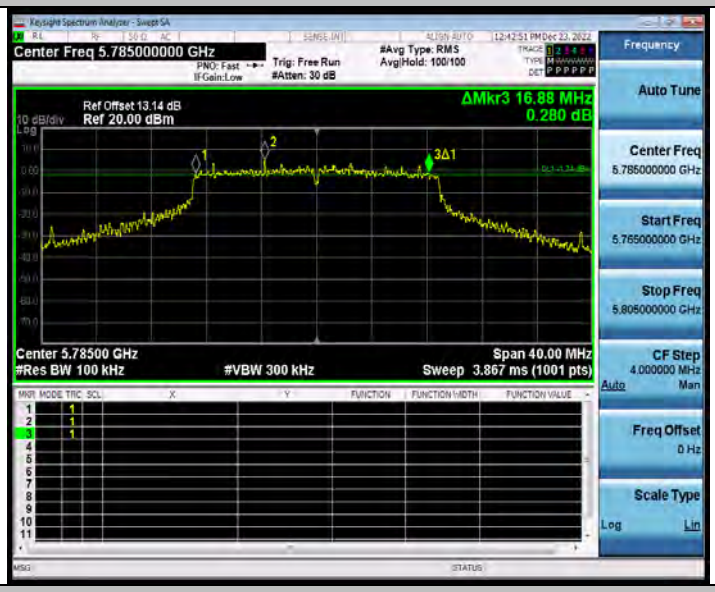


11N40SISO_Ant1_5795

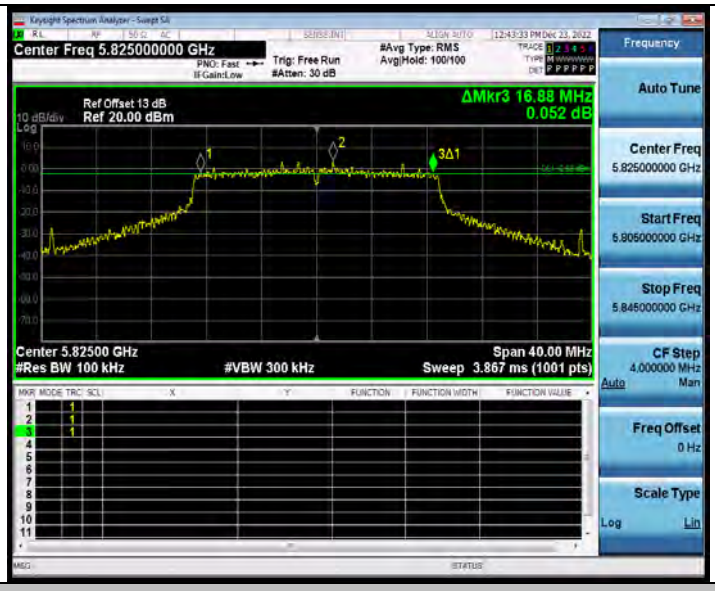


11AC20SISO_Ant1_5745

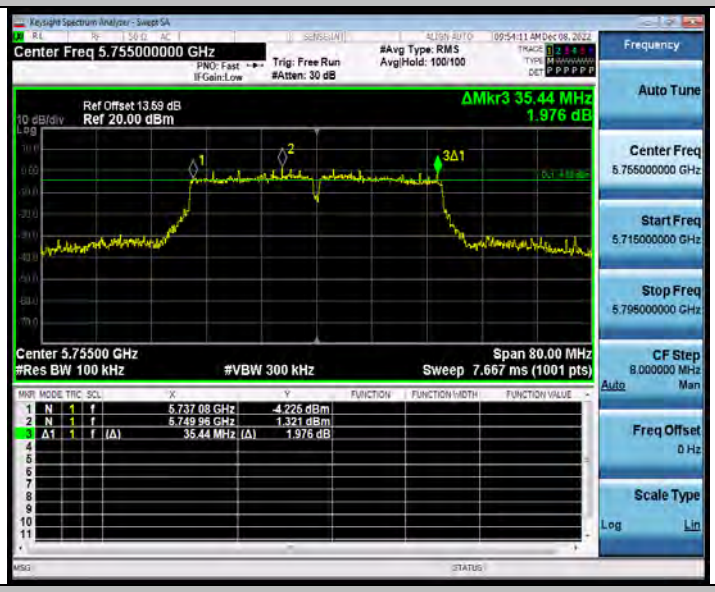
11AC20SISO_Ant1_5785



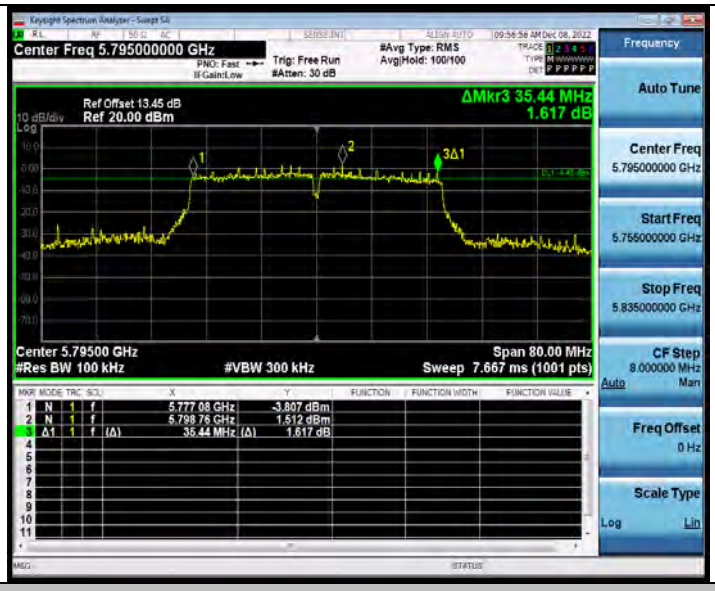
11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5775

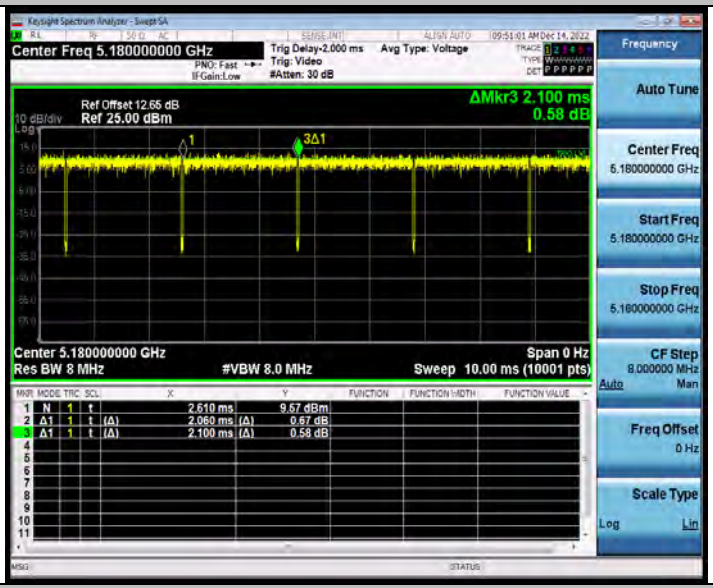
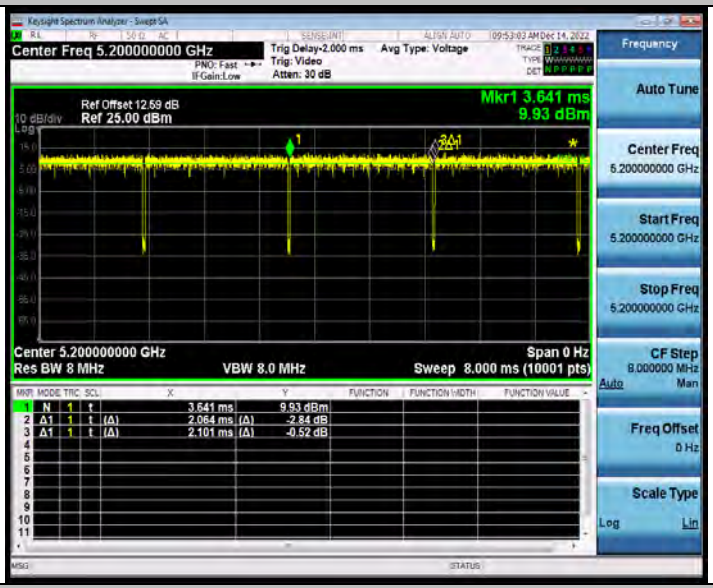
DUTY CYCLE

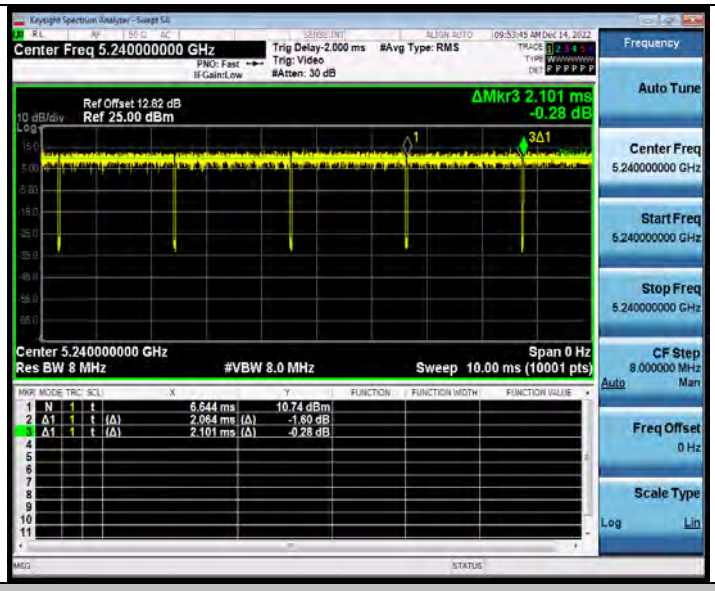
TEST RESULT

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant1	5180	2.06	2.10	98.10
		5200	2.07	2.10	98.57
		5240	2.07	2.11	98.10
		5260	2.06	2.10	98.10
		5300	2.07	2.10	98.57
		5320	2.06	2.10	98.10
		5500	2.06	2.10	98.10
		5580	2.06	2.10	98.10
		5700	2.06	2.10	98.10
		5720	2.07	2.11	98.10
		5745	2.06	2.10	98.10
		5785	2.06	2.10	98.10
		5825	2.07	2.10	98.57
11N20SISO	Ant1	5180	1.92	1.96	97.96
		5200	1.93	1.96	98.47
		5240	1.92	1.96	97.96
		5260	1.92	1.96	97.96
		5300	1.93	1.96	98.47
		5320	1.92	1.96	97.96
		5500	1.92	1.96	97.96
		5580	1.92	1.96	97.96
		5700	1.92	1.96	97.96
		5720	1.93	1.96	98.47
		5745	1.92	1.96	97.96
		5785	1.93	1.96	98.47
		5825	1.93	1.96	98.47
11N40SISO	Ant1	5190	0.95	0.99	95.96
		5230	0.95	0.99	95.96
		5270	0.95	0.99	95.96
		5310	0.95	0.98	96.94

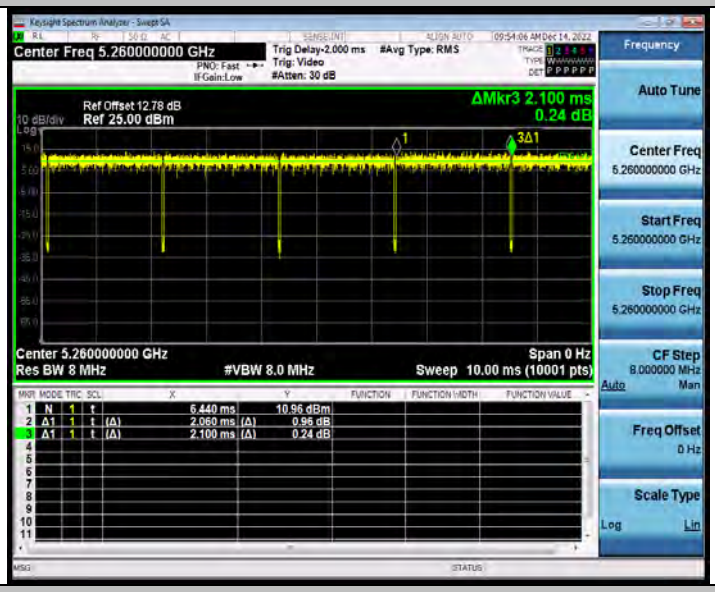
		5510	0.95	0.98	96.94
		5550	0.95	0.98	96.94
		5670	0.95	0.98	96.94
		5710	0.95	0.98	96.94
		5755	0.95	0.99	95.96
		5795	0.94	0.98	95.92
11AC20SISO	Ant1	5180	1.93	1.97	97.97
		5200	1.93	1.97	97.97
		5240	1.93	1.97	97.97
		5260	1.93	1.97	97.97
		5300	1.93	1.97	97.97
		5320	1.93	1.97	97.97
		5500	1.94	1.97	98.48
		5580	1.93	1.97	97.97
		5700	1.94	1.97	98.48
		5720	1.93	1.97	97.97
		5745	1.93	1.96	98.47
		5785	1.93	1.97	97.97
		5825	1.94	1.97	98.48
11AC40SISO	Ant1	5190	0.95	0.99	95.96
		5230	0.95	0.99	95.96
		5270	0.95	0.99	95.96
		5310	0.95	0.98	96.94
		5510	0.96	0.99	96.97
		5550	0.95	0.98	96.94
		5670	0.95	0.99	95.96
		5710	0.95	0.98	96.94
		5755	0.95	0.99	95.96
		5795	0.95	0.99	95.96
11AC80SISO	Ant1	5210	0.46	0.50	92.00
		5290	0.47	0.50	94.00
		5530	0.47	0.50	94.00
		5610	0.47	0.50	94.00
		5690	0.47	0.50	94.00
		5775	0.46	0.50	92.00

TEST GRAPHS

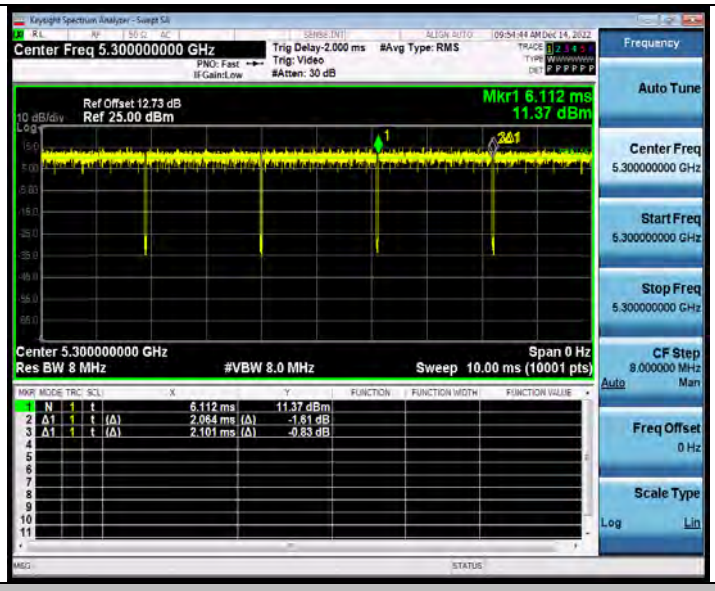
11A_Ant1_5180

11A_Ant1_5200

11A_Ant1_5240



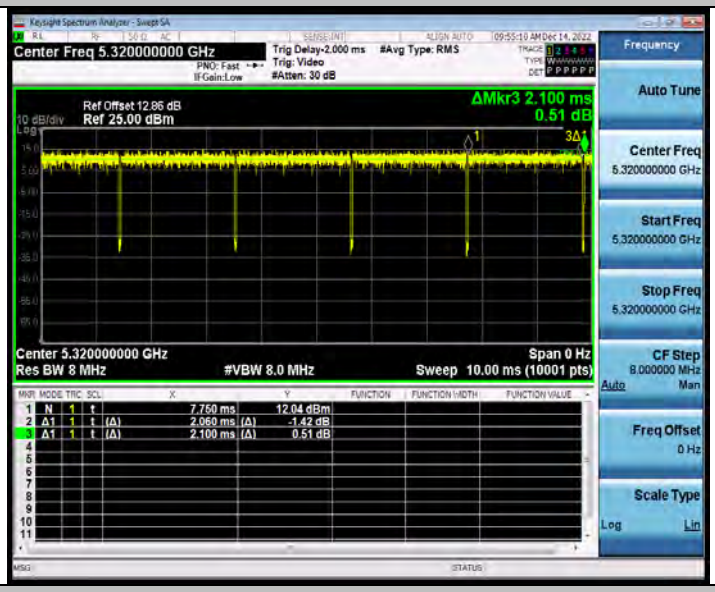
11A_Ant1_5260



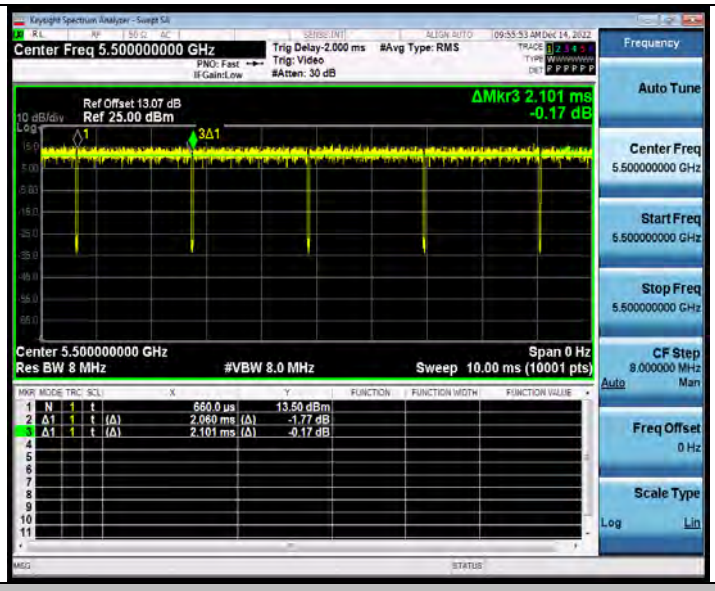
11A_Ant1_5300



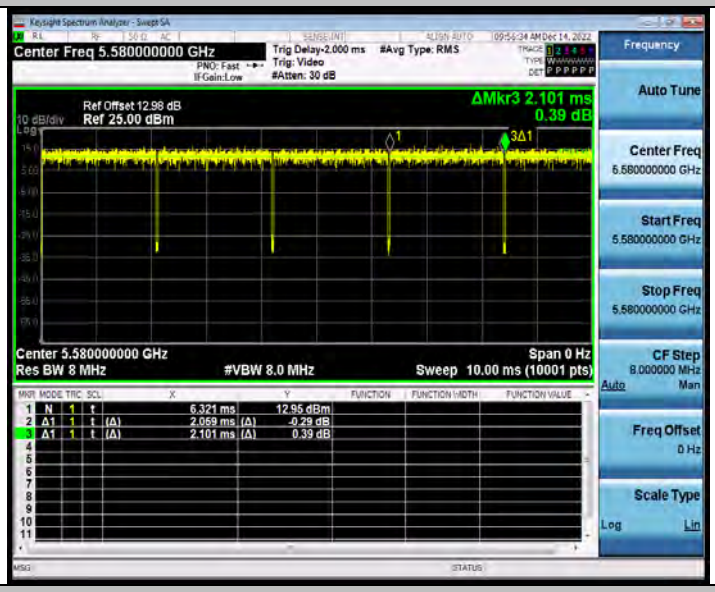
11A_Ant1_5320



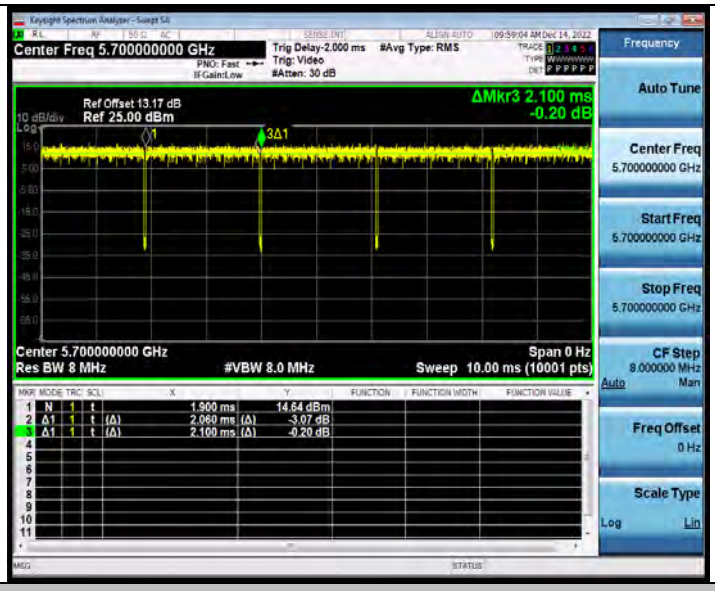
11A_Ant1_5500



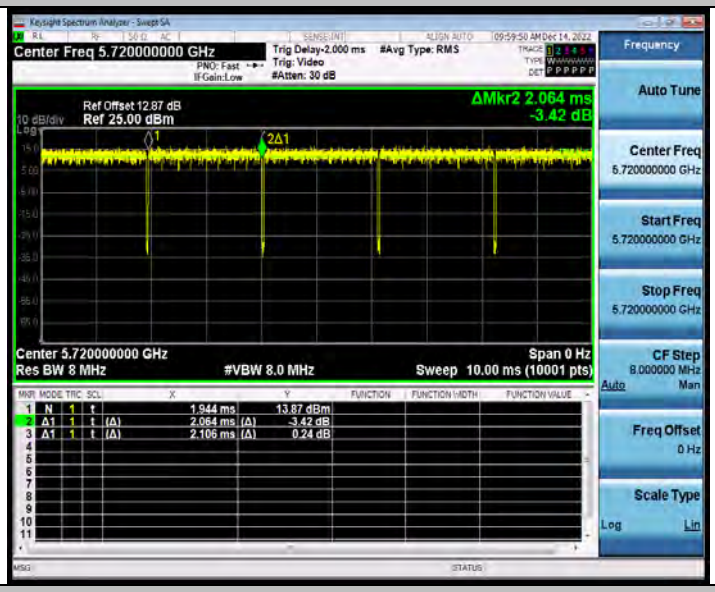
11A_Ant1_5580



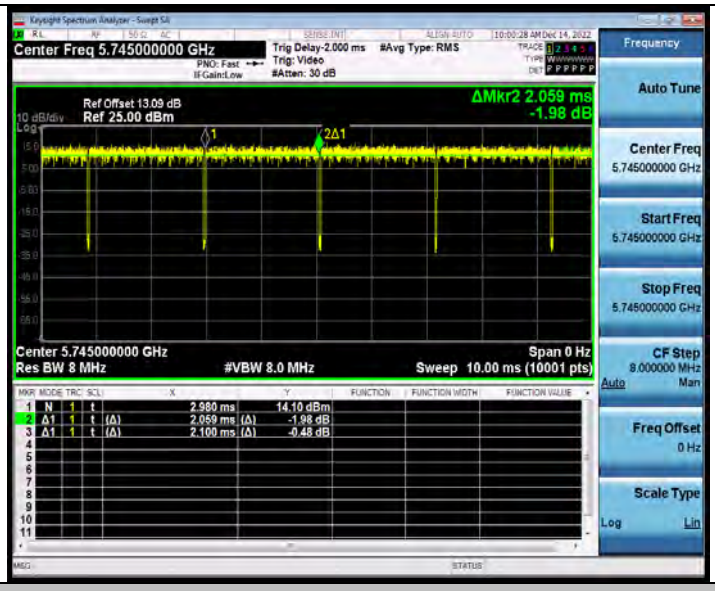
11A_Ant1_5700



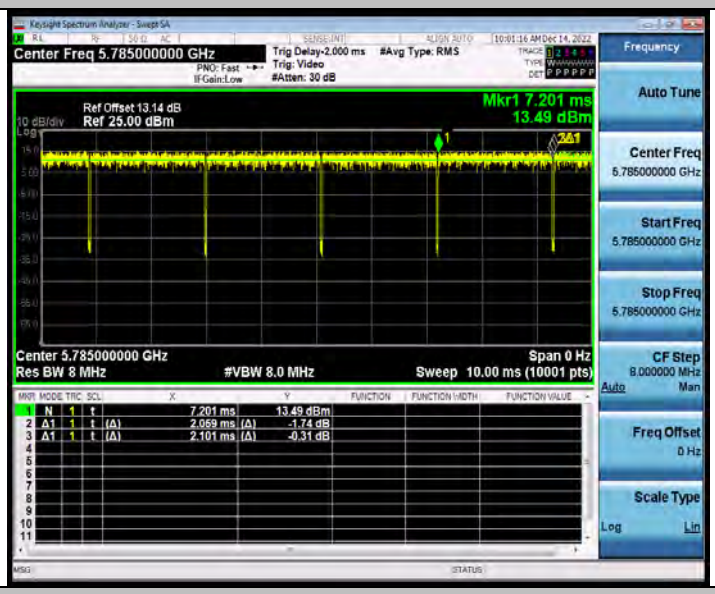
11A_Ant1_5720



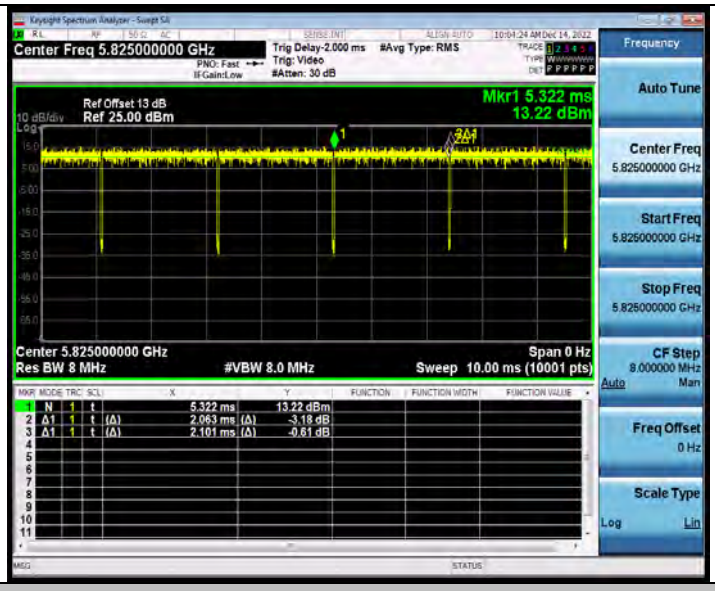
11A_Ant1_5745



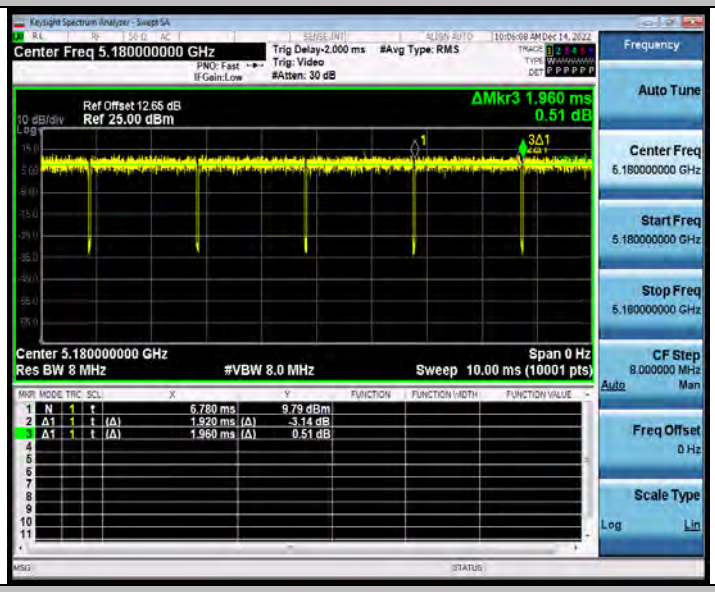
11A_Ant1_5785



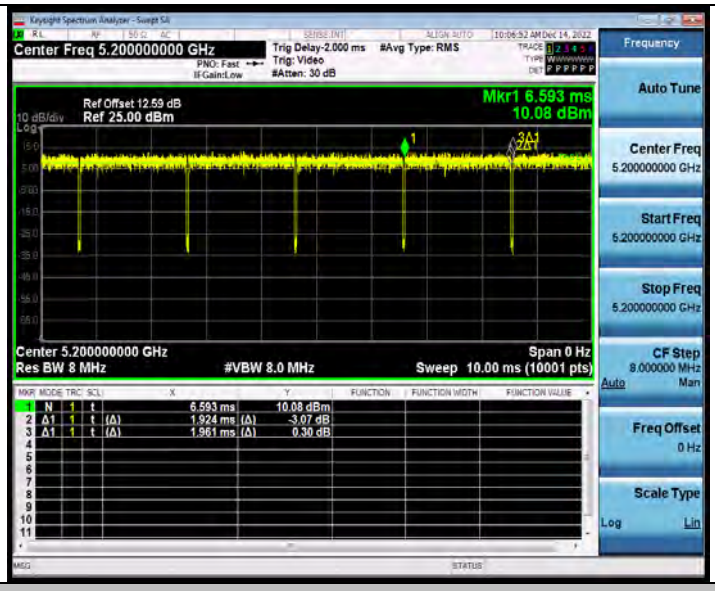
11A_Ant1_5825



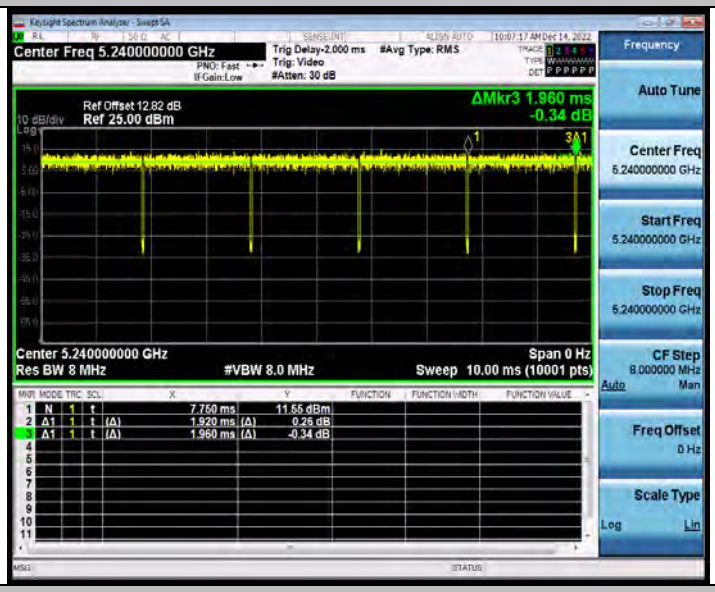
11N20SISO_Ant1_5180



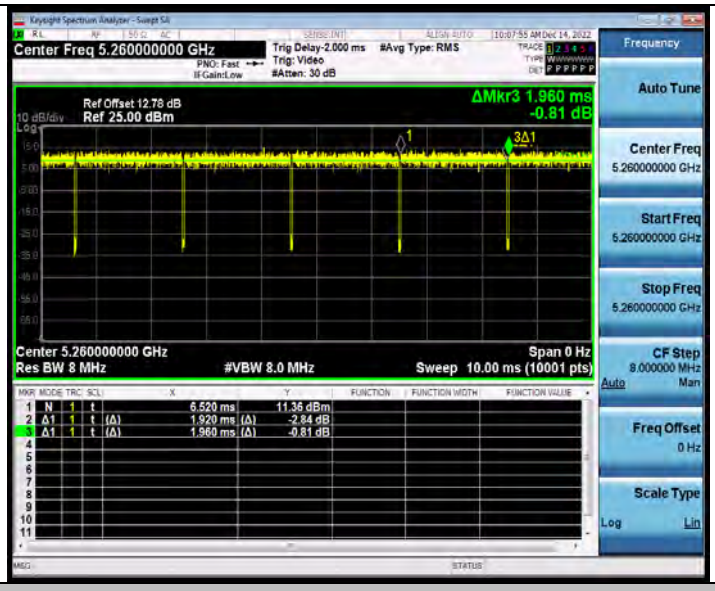
11N20SISO_Ant1_5200



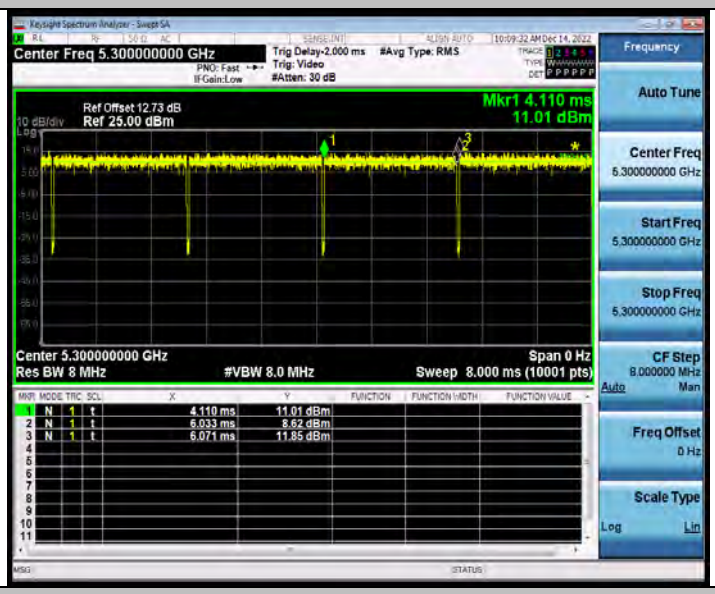
11N20SISO_Ant1_5240



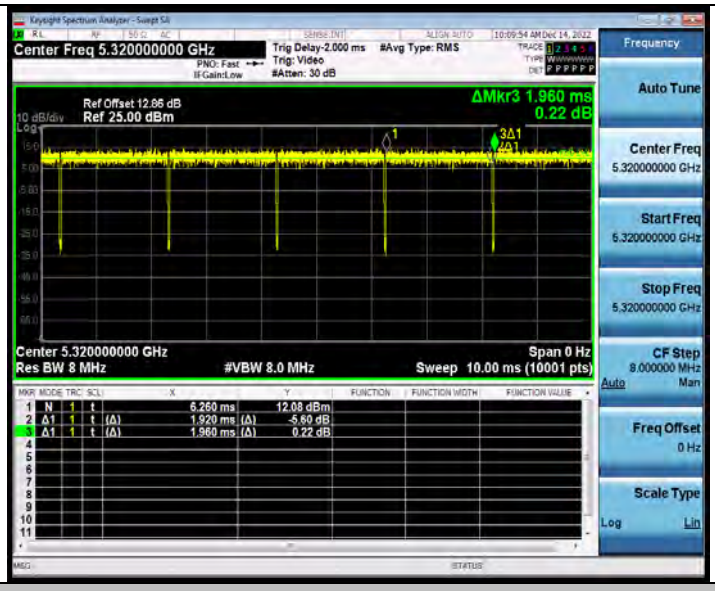
11N20SISO_Ant1_5260



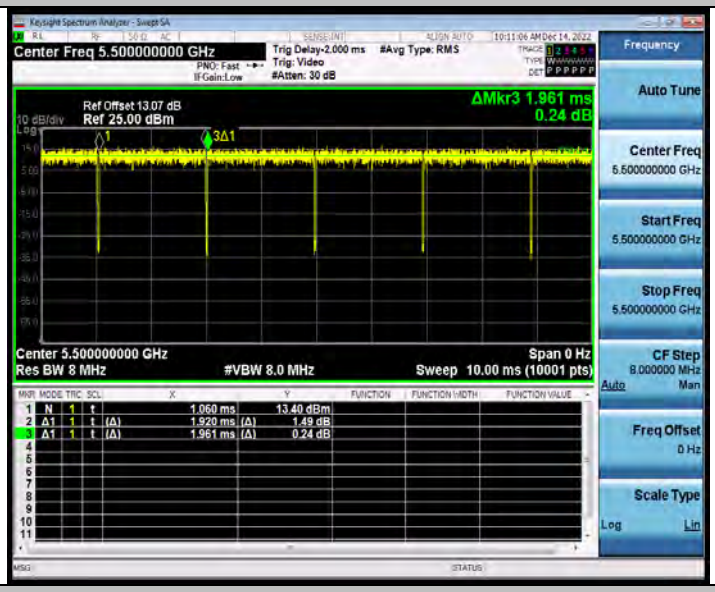
11N20SISO_Ant1_5300



11N20SISO_Ant1_5320



11N20SISO_Ant1_5500



11N20SISO_Ant1_5580