

FCC TEST REPORT

FCC ID: 2A5FZ-MZY01N

Report Number..... : ZKT-220222L0952-04

Date of Test..... : Feb. 15, 2022 – Mar. 05, 2022

Date of issue : Mar. 05, 2022

Total number of pages : 68

Test Result : PASS

Testing Laboratory..... : **Shenzhen ZKT Technology Co., Ltd.**

Address : 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China

Applicant's name : Shenzhen Meizhiying Technology Co.Ltd.

Address : 3th floor,Building A,Wentao Technology & Science Park,Shiyan,Bao An District,Shenzhen,China.

Manufacturer's name : Shenzhen Meizhiying Technology Co.Ltd.

Address : 3th floor,Building A,Wentao Technology & Science Park,Shiyan,Bao An District,Shenzhen,China.

Test specification:

Standard : FCC CFR Title 47 Part 15 Subpart C Section 15.247
ANSI C63.10:2013
KDB 789033 D02 V01r02

Test procedure..... : /

Non-standard test method : N/A

Test Report Form No. : TRF-EL-110_V0

Test Report Form(s) Originator : ZKT Testing

Master TRF : Dated: 2020-01-06

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

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Product name..... : Car carplay stereo

Trademark : /

Model/Type reference : MZY-01, MZY-02, MZY-03, MZY-04, MZY-05, MZY-06, MZY-07, MZY-08, MZY-09, MZY-10, MZY-11, MZY-12, MZY-13, MZY-14, MZY-15, MZY-16, MZY-17, MZY-18, MZY-19, MZY-20, MZY-21, MZY-22, MZY-23, MZY-24, MZY-25, MZY-26, MZY-27, MZY-28, MZY-29, MZY-30

Ratings..... : DC 12.0V from battery

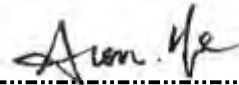
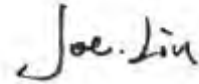
Testing procedure and testing location:**Testing Laboratory..... : Shenzhen ZKT Technology Co., Ltd.****Address..... : 1/F, No. 101, Building B, No. 6, Tangwei Community
Industrial Avenue, Fuhai Street, Bao'an District,
Shenzhen, China**
-----**Tested by (name + signature) : Alen He****Reviewer (name + signature)..... : Joe Liu****Approved (name + signature) : Lake Xie**

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1. VERSION

ReportNo.	Version	Description	Approved
ZKT-220222L0952-04	Rev.01	Initial issue of report	Mar. 05, 2022

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.247) , Subpart C			
Standard Section	Test Item	Result	Remark
15.203/15.247 (c)	Antenna requirement	PASS	
15.207	AC Power Line Conducted Emission	N/A	
15.407 (a) (b)	Spurious Radiated Emissions and Band Edge	PASS	
15.407 (e)/15.403(i)	6 dB bandwidth,26dB Emission Bandwidth& 99% Occupied Bandwidth	PASS	
15.407 (a)	Power Spectral Density	PASS	
15.407 (a)(1)(2)(3)	Maximum conducted output power	PASS	
15.407 (g)	Frequency Stability	PASS	

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report

2.1 TEST FACILITY

Shenzhen ZKT Technology Co., Ltd.

Add. : 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China

FCC Test Firm Registration Number: 692225

Designation Number: CN1299

IC Registered No.: 27033

2.2 MEASUREMENT UNCERTAINTY

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

No.	tem	ncertainty
1	3m chamber Radiated spurious emission(30MHz-1GHz)	U=4.3dB
2	3m chamber Radiated spurious emission(1GHz-18GHz)	U=4.5dB
3	3m chamber Radiated spurious emission(18GHz-40GHz)	U=3.34dB
4	Conducted Adjacent channel power	U=1.38dB
5	Conducted output power uncertainty Above 1G	U=1.576dB
6	Conducted output power uncertainty below 1G	U=1.28dB
7	humidity uncertainty	U=5.3%
8	Temperature uncertainty	U=0.59℃
9	Radiated disturbance(30MHz-1000MHz)	U=4.8dB
10	Radiated disturbance(1GHz-6GHz)	U=4.9dB
11	Radiated disturbance(1GHz-18GHz)	U=5.0dB

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Product Name:	Car carplay stereo		
Model No.:	MZY-01		
Serial No.:	MZY-02, MZY-03, MZY-04, MZY-05, MZY-06, MZY-07, MZY-08, MZY-09, MZY-10, MZY-11, MZY-12, MZY-13, MZY-14, MZY-15, MZY-16, MZY-17, MZY-18, MZY-19, MZY-20, MZY-21, MZY-22, MZY-23, MZY-24, MZY-25, MZY-26, MZY-27, MZY-28, MZY-29, MZY-30		
Sample(s) Status:	Engineer sample		
	IEEE802.11 WLAN mode supported		802.11a/n/ac(20MHz bandwidth) 802.11n/ac (40MHz bandwidth) 802.11ac (80MHz bandwidth)
	Data rate		802.11a: 54Mbps 802.11n: MCS0-MCS7 802.11ac:MCS0-MCS9
	Modulation		OFDM
	Band 1	Frequency Range	IEEE802.11 a: 5180-5240MHz IEEE802.11 n (HT20): 5180-5240MHz IEEE802.11 n (HT40): 5190-5230MHz IEEE802.11 ac (VHT20): 5180-5240MHz IEEE802.11 ac (VHT40): 5190-5230MHz IEEE802.11 ac (VHT80): 5210MHz
		Channels	IEEE802.11 a/ac /n: 4 IEEE802.11 ac /n(40MHz):2 IEEE802.11 ac (80MHz):1
	BAND 4	Frequency Range	IEEE802.11 a: 5745-5825 MHz IEEE802.11 n (HT20):5745-5825 MHz IEEE802.11 n (HT40):5755-5795 MHz IEEE802.11 ac (VHT20):5745-5825 MHz IEEE802.11 ac (VHT40):5755-5795 MHz IEEE802.11 ac (VHT80):5775MHz
		Channels	IEEE802.11 a/ac /n: 5 IEEE802.11 ac /n(40MHz):2 IEEE802.11 ac (80MHz):1
Antenna Type:	external antenna		
Antenna gain:	3dBi;		
Power supply:	DC 12.0V from car battery		

Band 1		Band 4	
CH.	Frequency (MHz)	CH.	Frequency (MHz)
36	5180	149	5745
40	5200	...	...
44	5220	157	5785
48	5240	...	...
		165	5825

802.11a/n/ac (20MHz) Frequency / Channel Operations

Band 1		Band 4	
CH.	Frequency (MHz)	CH.	Frequency (MHz)
38	5190	151	5755
46	5230	159	5795

802.11n / 802.11ac (40MHz BW) Frequency / Channel Operations

Band 1		Band 4	
CH.	Frequency (MHz)	CH.	Frequency (MHz)
42	5210	155	5775

802.11n / 802.11ac (80MHz BW) Frequency / Channel Operations

3.2 DESCRIPTION OF TEST MODES

Worst Case Configuration: transmitting both 2.4GHz mode and 5GHz mode

Description	5 GHz Emission
Antenna	1
Channel	165
Operating Frequency (MHz)	802.11A
Data Rate (Mbps)	OFDM/6Mbps
Mode	Band I-A20

3.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated Emission



Conducted Spurious



3.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

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.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note

Item	Shielded Type	Ferrite Core	Length	Note

Note:(1) The support equipment was authorized by Declaration of Confirmation.

(2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.

3.5EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

Item	Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	Spectrum Analyzer (9kHz-26.5GHz)	KEYSIGHT	9020A	MY45109572	Sep. 21, 2021	Sep. 22, 2022
2	Spectrum Analyzer (1GHz-40GHz)	Agilent	E4446A	100363	Sep. 21, 2021	Sep. 22, 2022
3	Test Receiver (9kHz-7GHz)	R&S	ESCI7	101169	Sep. 21, 2021	Sep. 22, 2022
4	Bilog Antenna (30MHz-1400MHz)	Schwarzbeck	VULB9168	00877	Sep. 21, 2021	Sep. 22, 2022
5	Horn Antenna (1GHz-18GHz)	SCHWARZBEC K	BBHA9120D	1541	Sep. 21, 2021	Sep. 22, 2022
6	Horn Antenna (18GHz-40GHz)	A.H. System	SAS-574	588	Sep. 21, 2021	Sep. 22, 2022
7	Amplifier (30-1000MHz)	EM Electronics	EM330 Amplifier	N/A	Sep. 21, 2021	Sep. 22, 2022
8	Amplifier (1GHz-40GHz)	QUANJUDA	DLE-161	097	Sep. 21, 2021	Sep. 22, 2022
9	Loop Antenna (9KHz-30MHz)	SCHWARZBEC K	FMZB1519B	014	Sep. 21, 2021	Sep. 22, 2022
10	RF cables1 (9kHz-30MHz)	N/A	9kHz-30MHz	N/A	Sep. 21, 2021	Sep. 22, 2022
11	RF cables2 (30MHz-1GHz)	N/A	30MHz-1GHz	N/A	Sep. 21, 2021	Sep. 22, 2022
12	RF cables3 (1GHz-40GHz)	N/A	1GHz-40GHz	N/A	Sep. 21, 2021	Sep. 22, 2022
13	CMW500 Test	R&S	CMW500	106504	Sep. 21, 2021	Sep. 22, 2022
14	ESG Signal Generator	Agilent	E4421B	GB40051203	Sep. 21, 2021	Sep. 22, 2022
15	Signal Generator	Agilent	N5182A	MY47420215	Sep. 21, 2021	Sep. 22, 2022
16	D.C. Power Supply	LongWei	TPR-6405D	\	\	\
17	Software	Frad	EZ-EMC	FA-03A2 RE	\	\

Conduction Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	LISN	R&S	ENV216	101471	Sep. 21, 2021	Sep. 22, 2022
2	LISN	CYBERTEK	EM5040A	E185040014 9	Sep. 21, 2021	Sep. 22, 2022
3	Test Cable	N/A	C01	N/A	Sep. 21, 2021	Sep. 22, 2022
4	Test Cable	N/A	C02	N/A	Sep. 21, 2021	Sep. 22, 2022
5	EMI Test Receiver	R&S	ESRP3	101946	Sep. 21, 2021	Sep. 22, 2022
6	Absorbing Clamp	DZ	ZN23201	N/A	Sep. 21, 2021	Sep. 22, 2022

4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

Test Requirement:	FCC Part15 C Section 15.207
Test Method:	ANSI C63.10:2013
Test Frequency Range:	150KHz to 30MHz
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto

4.1.1 POWER LINE CONDUCTED EMISSION LIMITS

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

Note:

(1) *Decreases with the logarithm of the frequency.

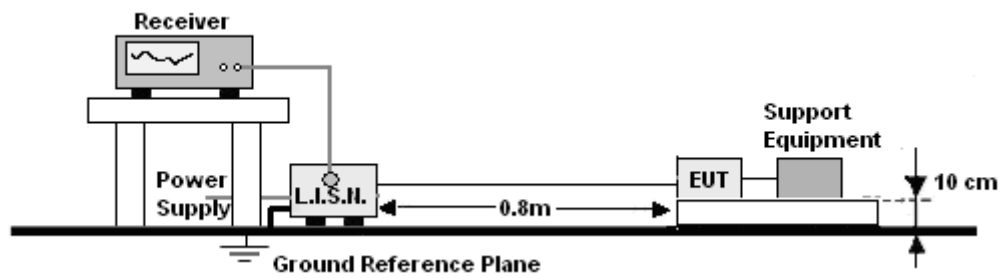
4.1.2 TEST PROCEDURE

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system; a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10:2013.
2. Support equipment, if needed, was placed as per ANSI C63.10:2013
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10:2013.
4. The adapter received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
5. All support equipments received AC power from a second LISN, if any.
6. The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7. Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.e.
8. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.1.3 DEVIATION FROM TEST STANDARD

No deviation

4.1.4 TEST SETUP



4.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

We pretest AC 120V, the worst voltage was AC 120V and the data recording in the report.

4.1.6 TEST RESULT

N/A (not applicable to this device ,which powered from car battery)

4.2 RADIATED EMISSION MEASUREMENT

4.2.1 RADIATED EMISSION LIMITS

1. Radiated emissions from 9 kHz to 25 GHz were measured according to the methods defines in ANSI C63.10-2013. The EUT was placed above the ground plane, 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz. The interface cables and equipment position were varied within limits of reasonable applications to determine the positions producing maximum radiated emissions.
2. For transmitters operating in the 5150-5250 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of -27 dBm/MHz.
3. For transmitters operating in the 5250-5350 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of -27 dBm/MHz. Devices operating in the 5250-5350 MHz band that generate emissions in the 5150-5250 MHz band must meet all applicable technical requirements for operation in the 5150-5250 MHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5150-5250 MHz band.
4. For transmitters operating in the 5470-5600 MHz and 5650-5725 MHz band: all emissions outside of the 5470-5600 MHz and 5650-5725 MHz band shall not exceed an EIRP of -27 dBm/MHz.
5. KDB789033v02r01G)2)c) As specified in 15.407(b), emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of -27 dBm/MHz (or -17 dBm/MHz as specified in 15.407(b)(4)). However, an out-of-band emission that complies with both the average and peak limits of 15.209 is not required to satisfy the -27 dBm/MHz or -17 dBm/MHz peak emission limit.

According to §15.209(a), except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following 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

LIMITS OF RADIATED EMISSION MEASUREMENT

FREQUENCY (MHz)	Limit (dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

4.2.2 TEST PROCEDURE

Below 1GHz test procedure as below:

- a. The EUT was placed on the top of a rotating table 0.1 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Above 1GHz test procedure as below:

- g. Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change from table 0.8 metre to 1.5 metre (Above 18GHz the distance is 1 meter and table is 1.5 metre).
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel

Note:

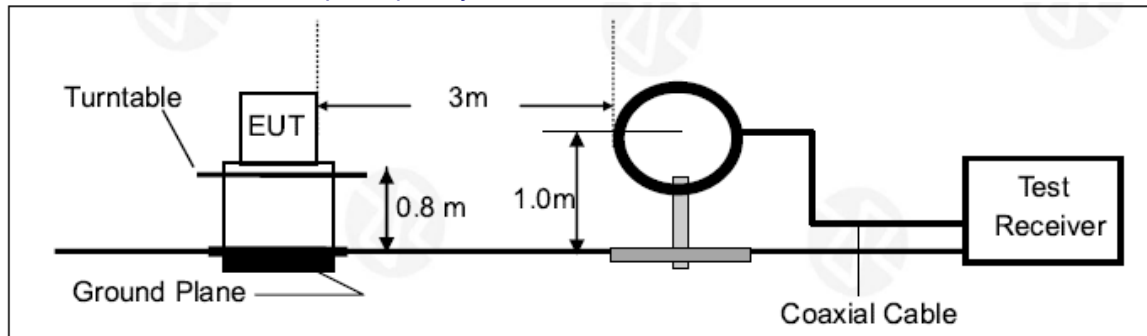
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

4.2.3 DEVIATION FROM TEST STANDARD

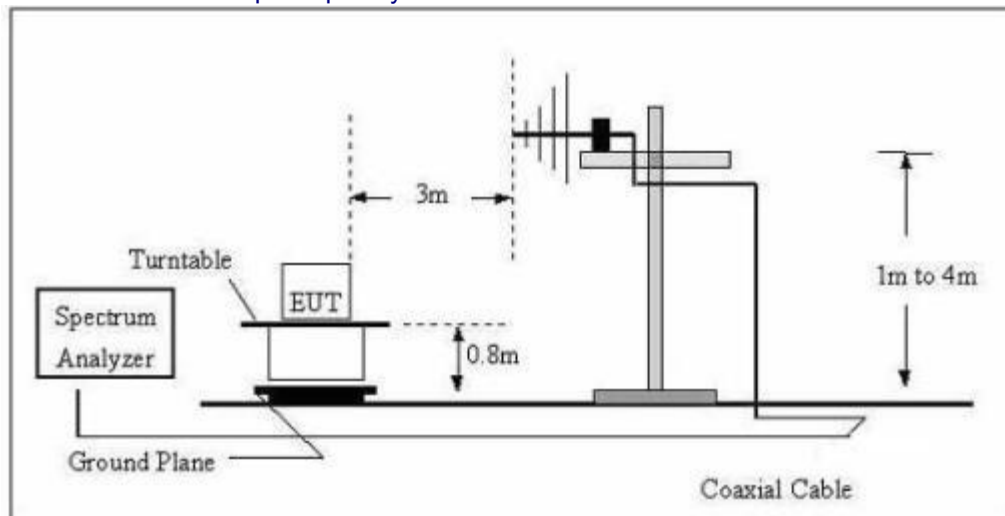
No deviation

4.2.4 TEST SETUP

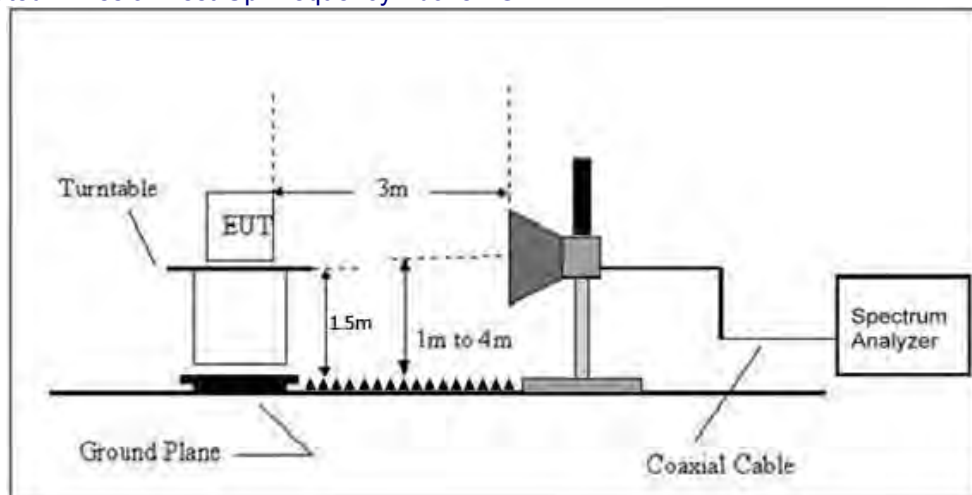
(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz



4.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

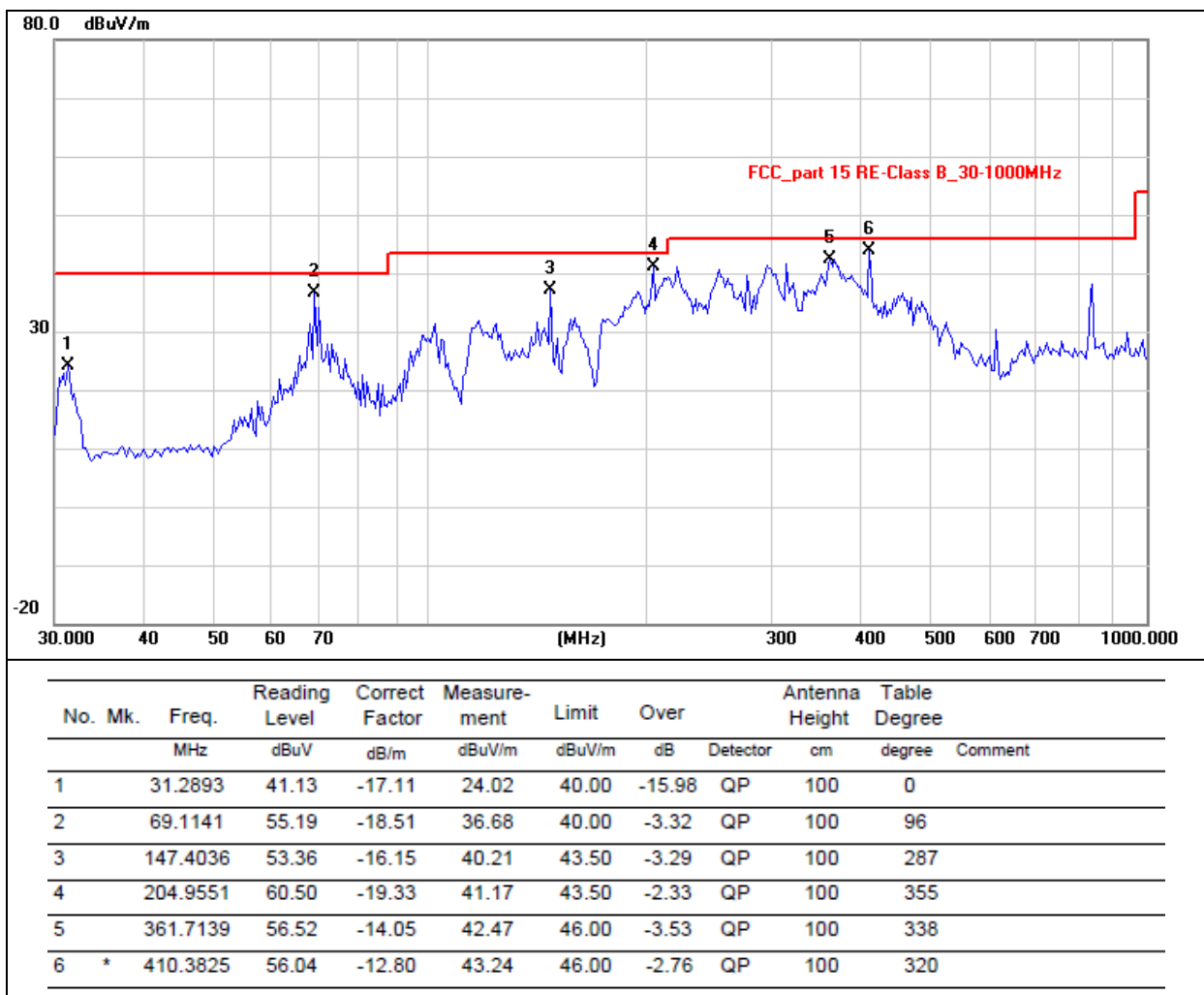
4.2.6 TEST RESULTS

Between 9KHz – 30MHz

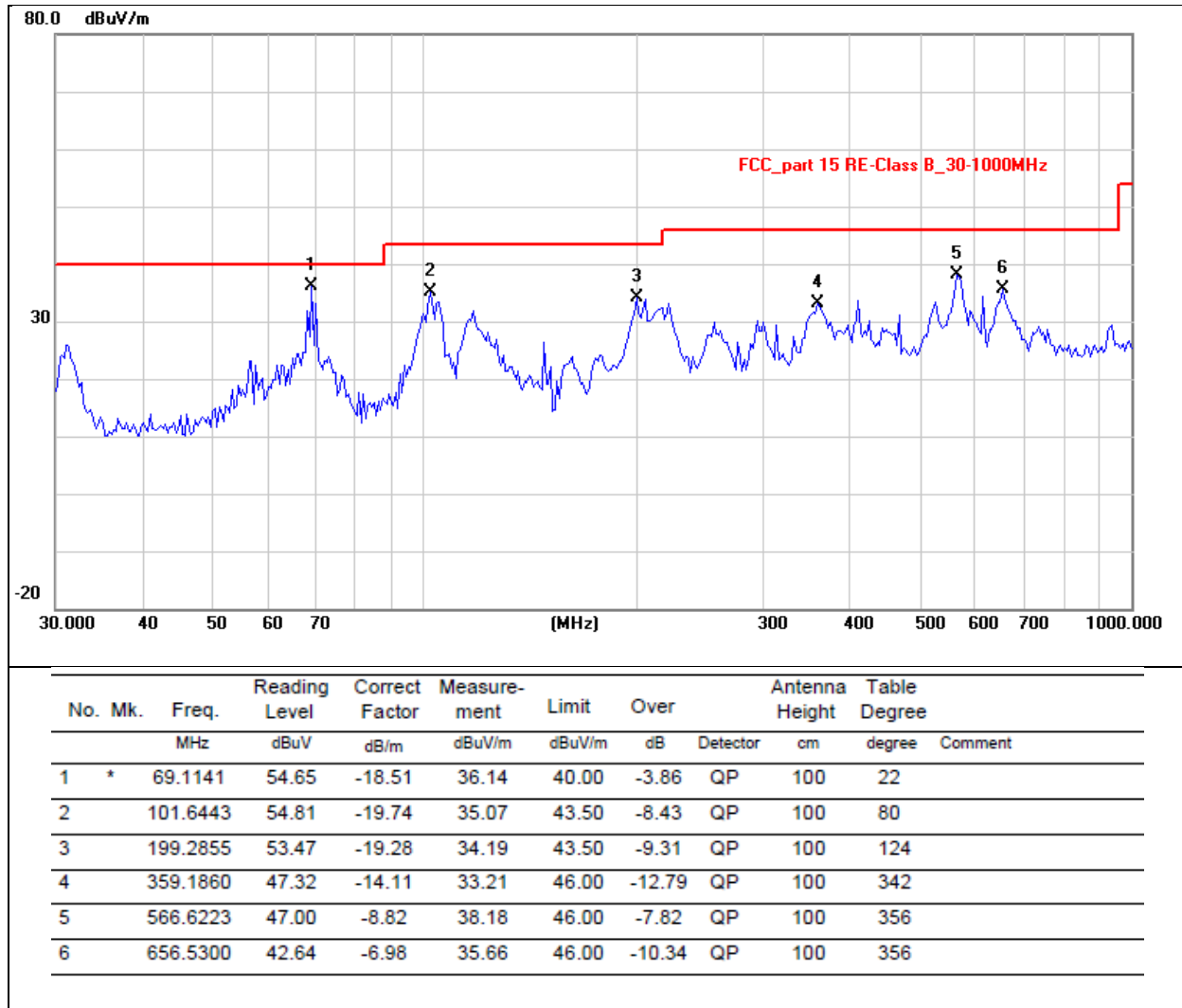
The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 15.31(o) & RSS-Gen 6.13, the test result no need to reported.

Between 30MHz – 1GHz

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	DC12V		



Temperature:	26°C	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	Vertical
Test Voltage:	DC12V		



Remarks:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

1GHz~40GHz

802.11a

Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Low Channel:5180MHz									
V	10360	55.22	30.55	5.77	24.66	55.10	74.00	-18.90	PK
V	10360	39.94	30.55	5.77	24.66	39.82	54.00	-14.18	AV
V	15540	52.06	30.33	6.32	24.55	52.60	74.00	-21.40	PK
V	15540	38.84	30.33	6.32	24.55	39.38	54.00	-14.62	AV
V	20720	51.16	30.85	7.45	24.69	52.45	74.00	-21.55	PK
V	20720	40.96	30.85	7.45	24.69	42.25	54.00	-11.75	AV
H	10360	55.25	30.55	5.77	24.66	55.13	74.00	-18.87	PK
H	10360	41.40	30.55	5.77	24.66	41.28	54.00	-12.72	AV
H	15540	53.65	30.33	6.32	24.55	54.19	74.00	-19.81	PK
H	15540	39.46	30.33	6.32	24.55	40.00	54.00	-14.00	AV
H	20720	50.48	30.85	7.45	24.69	51.77	74.00	-22.23	PK
H	20720	39.96	30.85	7.45	24.69	41.25	54.00	-12.75	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Middle Channel:5200MHz									
V	10400	55.80	30.55	5.77	24.66	55.68	74.00	-18.32	PK
V	10400	40.68	30.55	5.77	24.66	40.56	54.00	-13.44	AV
V	15600	51.99	30.33	6.32	24.55	52.53	74.00	-21.47	PK
V	15600	40.92	30.33	6.32	24.55	41.46	54.00	-12.54	AV
V	20800	50.32	30.85	7.45	24.69	51.61	74.00	-22.39	PK
V	20800	40.41	30.85	7.45	24.69	41.70	54.00	-12.30	AV
H	10400	56.22	30.55	5.77	24.66	56.10	74.00	-17.90	PK
H	10400	39.88	30.55	5.77	24.66	39.76	54.00	-14.24	AV
H	15600	52.48	30.33	6.32	24.55	53.02	74.00	-20.98	PK
H	15600	39.32	30.33	6.32	24.55	39.86	54.00	-14.14	AV
H	20800	50.00	30.85	7.45	24.69	51.29	74.00	-22.71	PK
H	20800	39.32	30.85	7.45	24.69	40.61	54.00	-13.39	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5240MHz									
V	10480	56.14	30.55	5.77	24.66	56.02	74.00	-17.98	PK
V	10480	40.17	30.55	5.77	24.66	40.05	54.00	-13.95	AV
V	15720	53.22	30.33	6.32	24.55	53.76	74.00	-20.24	PK
V	15720	39.28	30.33	6.32	24.55	39.82	54.00	-14.18	AV
V	20960	48.81	30.85	7.45	24.69	50.10	74.00	-23.90	PK
V	20960	41.05	30.85	7.45	24.69	42.34	54.00	-11.66	AV
H	10480	56.45	30.55	5.77	24.66	56.33	74.00	-17.67	PK
H	10480	41.10	30.55	5.77	24.66	40.98	54.00	-13.02	AV
H	15720	52.29	30.33	6.32	24.55	52.83	74.00	-21.17	PK
H	15720	40.79	30.33	6.32	24.55	41.33	54.00	-12.67	AV
H	20960	49.63	30.85	7.45	24.69	50.92	74.00	-23.08	PK
H	20960	39.38	30.85	7.45	24.69	40.67	54.00	-13.33	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5745MHz									
V	11490	57.45	30.55	5.77	24.66	57.33	74.00	-16.67	PK
V	11490	40.07	30.55	5.77	24.66	39.95	54.00	-14.05	AV
V	17235	51.78	30.33	6.32	24.55	52.32	74.00	-21.68	PK
V	17235	41.07	30.33	6.32	24.55	41.61	54.00	-12.39	AV
V	22980	49.91	30.85	7.45	24.69	51.20	74.00	-22.80	PK
V	22980	40.70	30.85	7.45	24.69	41.99	54.00	-12.01	AV
H	11490	56.45	30.55	5.77	24.66	56.33	74.00	-17.67	PK
H	11490	39.82	30.55	5.77	24.66	39.70	54.00	-14.30	AV
H	17235	53.47	30.33	6.32	24.55	54.01	74.00	-19.99	PK
H	17235	40.65	30.33	6.32	24.55	41.19	54.00	-12.81	AV
H	22980	50.91	30.85	7.45	24.69	52.20	74.00	-21.80	PK
H	22980	41.08	30.85	7.45	24.69	42.37	54.00	-11.63	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5785MHz									
V	11570	57.39	30.55	5.77	24.66	57.27	74.00	-16.73	PK
V	11570	39.47	30.55	5.77	24.66	39.35	54.00	-14.65	AV
V	17355	53.49	30.33	6.32	24.55	54.03	74.00	-19.97	PK
V	17355	39.57	30.33	6.32	24.55	40.11	54.00	-13.89	AV
V	23140	50.32	30.85	7.45	24.69	51.61	74.00	-22.39	PK
V	23140	39.69	30.85	7.45	24.69	40.98	54.00	-13.02	AV
H	11570	55.00	30.55	5.77	24.66	54.88	74.00	-19.12	PK
H	11570	42.32	30.55	5.77	24.66	42.20	54.00	-11.80	AV
H	17355	53.54	30.33	6.32	24.55	54.08	74.00	-19.92	PK
H	17355	40.80	30.33	6.32	24.55	41.34	54.00	-12.66	AV
H	23140	50.28	30.85	7.45	24.69	51.57	74.00	-22.43	PK
H	23140	41.05	30.85	7.45	24.69	42.34	54.00	-11.66	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5825MHz									
V	11650	57.68	30.55	5.77	24.66	57.56	74.00	-16.44	PK
V	11650	41.11	30.55	5.77	24.66	40.99	54.00	-13.01	AV
V	17475	52.00	30.33	6.32	24.55	52.54	74.00	-21.46	PK
V	17475	40.33	30.33	6.32	24.55	40.87	54.00	-13.13	AV
V	23300	49.40	30.85	7.45	24.69	50.69	74.00	-23.31	PK
V	23300	40.11	30.85	7.45	24.69	41.40	54.00	-12.60	AV
H	11650	56.51	30.55	5.77	24.66	56.39	74.00	-17.61	PK
H	11650	39.80	30.55	5.77	24.66	39.68	54.00	-14.32	AV
H	17475	52.94	30.33	6.32	24.55	53.48	74.00	-20.52	PK
H	17475	40.43	30.33	6.32	24.55	40.97	54.00	-13.03	AV
H	23300	50.68	30.85	7.45	24.69	51.97	74.00	-22.03	PK
H	23300	39.77	30.85	7.45	24.69	41.06	54.00	-12.94	AV

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Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Low Channel:5180MHz									
V	10360	57.18	30.55	5.77	24.66	57.06	74.00	-16.94	PK
V	10360	40.56	30.55	5.77	24.66	40.44	54.00	-13.56	AV
V	15540	52.83	30.33	6.32	24.55	53.37	74.00	-20.63	PK
V	15540	41.74	30.33	6.32	24.55	42.28	54.00	-11.72	AV
V	20720	49.12	30.85	7.45	24.69	50.41	74.00	-23.59	PK
V	20720	41.75	30.85	7.45	24.69	43.04	54.00	-10.96	AV
H	10360	54.83	30.55	5.77	24.66	54.71	74.00	-19.29	PK
H	10360	42.51	30.55	5.77	24.66	42.39	54.00	-11.61	AV
H	15540	52.04	30.33	6.32	24.55	52.58	74.00	-21.42	PK
H	15540	40.74	30.33	6.32	24.55	41.28	54.00	-12.72	AV
H	20720	51.62	30.85	7.45	24.69	52.91	74.00	-21.09	PK
H	20720	39.43	30.85	7.45	24.69	40.72	54.00	-13.28	AV

Polar (H/V)	Frequency	Meter Reading	Pre-amp lifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Middle Channel:5200MHz									
V	10400	54.79	30.55	5.77	24.66	54.67	74.00	-19.33	PK
V	10400	40.02	30.55	5.77	24.66	39.90	54.00	-14.10	AV
V	15600	53.29	30.33	6.32	24.55	53.83	74.00	-20.17	PK
V	15600	39.26	30.33	6.32	24.55	39.80	54.00	-14.20	AV
V	20800	49.58	30.85	7.45	24.69	50.87	74.00	-23.13	PK
V	20800	39.14	30.85	7.45	24.69	40.43	54.00	-13.57	AV
H	10400	56.58	30.55	5.77	24.66	56.46	74.00	-17.54	PK
H	10400	39.86	30.55	5.77	24.66	39.74	54.00	-14.26	AV
H	15600	53.16	30.33	6.32	24.55	53.70	74.00	-20.30	PK
H	15600	39.05	30.33	6.32	24.55	39.59	54.00	-14.41	AV
H	20800	50.81	30.85	7.45	24.69	52.10	74.00	-21.90	PK
H	20800	39.44	30.85	7.45	24.69	40.73	54.00	-13.27	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5240MHz									
V	10480	54.84	30.55	5.77	24.66	54.72	74.00	-19.28	PK
V	10480	40.09	30.55	5.77	24.66	39.97	54.00	-14.03	AV
V	15720	53.03	30.33	6.32	24.55	53.57	74.00	-20.43	PK
V	15720	39.85	30.33	6.32	24.55	40.39	54.00	-13.61	AV
V	20960	50.79	30.85	7.45	24.69	52.08	74.00	-21.92	PK
V	20960	41.63	30.85	7.45	24.69	42.92	54.00	-11.08	AV
H	10480	55.77	30.55	5.77	24.66	55.65	74.00	-18.35	PK
H	10480	40.27	30.55	5.77	24.66	40.15	54.00	-13.85	AV
H	15720	52.11	30.33	6.32	24.55	52.65	74.00	-21.35	PK
H	15720	40.22	30.33	6.32	24.55	40.76	54.00	-13.24	AV
H	20960	50.22	30.85	7.45	24.69	51.51	74.00	-22.49	PK
H	20960	39.26	30.85	7.45	24.69	40.55	54.00	-13.45	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5745MHz									
V	11490	57.03	30.55	5.77	24.66	56.91	74.00	-17.09	PK
V	11490	40.29	30.55	5.77	24.66	40.17	54.00	-13.83	AV
V	17235	52.37	30.33	6.32	24.55	52.91	74.00	-21.09	PK
V	17235	40.50	30.33	6.32	24.55	41.04	54.00	-12.96	AV
V	22980	51.69	30.85	7.45	24.69	52.98	74.00	-21.02	PK
V	22980	40.21	30.85	7.45	24.69	41.50	54.00	-12.50	AV
H	11490	57.42	30.55	5.77	24.66	57.30	74.00	-16.70	PK
H	11490	41.98	30.55	5.77	24.66	41.86	54.00	-12.14	AV
H	17235	52.56	30.33	6.32	24.55	53.10	74.00	-20.90	PK
H	17235	40.69	30.33	6.32	24.55	41.23	54.00	-12.77	AV
H	22980	49.13	30.85	7.45	24.69	50.42	74.00	-23.58	PK
H	22980	39.92	30.85	7.45	24.69	41.21	54.00	-12.79	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5785MHz									
V	11570	56.80	30.55	5.77	24.66	56.68	74.00	-17.32	PK
V	11570	39.00	30.55	5.77	24.66	38.88	54.00	-15.12	AV
V	17355	51.97	30.33	6.32	24.55	52.51	74.00	-21.49	PK
V	17355	41.62	30.33	6.32	24.55	42.16	54.00	-11.84	AV
V	23140	50.91	30.85	7.45	24.69	52.20	74.00	-21.80	PK
V	23140	39.10	30.85	7.45	24.69	40.39	54.00	-13.61	AV
H	11570	56.61	30.55	5.77	24.66	56.49	74.00	-17.51	PK
H	11570	41.05	30.55	5.77	24.66	40.93	54.00	-13.07	AV
H	17355	52.34	30.33	6.32	24.55	52.88	74.00	-21.12	PK
H	17355	39.63	30.33	6.32	24.55	40.17	54.00	-13.83	AV
H	23140	49.10	30.85	7.45	24.69	50.39	74.00	-23.61	PK
H	23140	39.47	30.85	7.45	24.69	40.76	54.00	-13.24	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5825MHz									
V	11650	57.48	30.55	5.77	24.66	57.36	74.00	-16.64	PK
V	11650	38.82	30.55	5.77	24.66	38.70	54.00	-15.30	AV
V	17475	53.31	30.33	6.32	24.55	53.85	74.00	-20.15	PK
V	17475	39.89	30.33	6.32	24.55	40.43	54.00	-13.57	AV
V	23300	50.00	30.85	7.45	24.69	51.29	74.00	-22.71	PK
V	23300	41.38	30.85	7.45	24.69	42.67	54.00	-11.33	AV
H	11650	56.72	30.55	5.77	24.66	56.60	74.00	-17.40	PK
H	11650	40.07	30.55	5.77	24.66	39.95	54.00	-14.05	AV
H	17475	53.72	30.33	6.32	24.55	54.26	74.00	-19.74	PK
H	17475	38.77	30.33	6.32	24.55	39.31	54.00	-14.69	AV
H	23300	49.16	30.85	7.45	24.69	50.45	74.00	-23.55	PK
H	23300	39.58	30.85	7.45	24.69	40.87	54.00	-13.13	AV

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Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Low Channel:5190MHz									
V	10380	56.96	30.55	5.77	24.66	56.84	74.00	-17.16	PK
V	10380	40.89	30.55	5.77	24.66	40.77	54.00	-13.23	AV
V	15570	51.86	30.33	6.32	24.55	52.40	74.00	-21.60	PK
V	15570	39.77	30.33	6.32	24.55	40.31	54.00	-13.69	AV
V	20760	49.20	30.85	7.45	24.69	50.49	74.00	-23.51	PK
V	20760	39.99	30.85	7.45	24.69	41.28	54.00	-12.72	AV
H	10380	57.73	30.55	5.77	24.66	57.61	74.00	-16.39	PK
H	10380	40.45	30.55	5.77	24.66	40.33	54.00	-13.67	AV
H	15570	52.65	30.33	6.32	24.55	53.19	74.00	-20.81	PK
H	15570	41.33	30.33	6.32	24.55	41.87	54.00	-12.13	AV
H	20760	49.91	30.85	7.45	24.69	51.20	74.00	-22.80	PK
H	20760	40.18	30.85	7.45	24.69	41.47	54.00	-12.53	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Middle Channel:5230MHz									
V	10460	57.65	30.55	5.77	24.66	57.53	74.00	-16.47	PK
V	10460	38.85	30.55	5.77	24.66	38.73	54.00	-15.27	AV
V	15690	53.26	30.33	6.32	24.55	53.80	74.00	-20.20	PK
V	15690	39.02	30.33	6.32	24.55	39.56	54.00	-14.44	AV
V	20920	50.44	30.85	7.45	24.69	51.73	74.00	-22.27	PK
V	20920	40.54	30.85	7.45	24.69	41.83	54.00	-12.17	AV
H	10460	55.79	30.55	5.77	24.66	55.67	74.00	-18.33	PK
H	10460	42.49	30.55	5.77	24.66	42.37	54.00	-11.63	AV
H	15690	52.17	30.33	6.32	24.55	52.71	74.00	-21.29	PK
H	15690	41.74	30.33	6.32	24.55	42.28	54.00	-11.72	AV
H	20920	51.64	30.85	7.45	24.69	52.93	74.00	-21.07	PK
H	20920	40.64	30.85	7.45	24.69	41.93	54.00	-12.07	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5755MHz									
V	11510	55.48	30.55	5.77	24.66	55.36	74.00	-18.64	PK
V	11510	39.16	30.55	5.77	24.66	39.04	54.00	-14.96	AV
V	17265	52.27	30.33	6.32	24.55	52.81	74.00	-21.19	PK
V	17265	40.47	30.33	6.32	24.55	41.01	54.00	-12.99	AV
V	23020	51.73	30.85	7.45	24.69	53.02	74.00	-20.98	PK
V	23020	40.28	30.85	7.45	24.69	41.57	54.00	-12.43	AV
H	11510	56.58	30.55	5.77	24.66	56.46	74.00	-17.54	PK
H	11510	42.41	30.55	5.77	24.66	42.29	54.00	-11.71	AV
H	17265	52.16	30.33	6.32	24.55	52.70	74.00	-21.30	PK
H	17265	39.68	30.33	6.32	24.55	40.22	54.00	-13.78	AV
H	23020	50.19	30.85	7.45	24.69	51.48	74.00	-22.52	PK
H	23020	41.09	30.85	7.45	24.69	42.38	54.00	-11.62	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5795MHz									
V	11590	55.63	30.55	5.77	24.66	55.51	74.00	-18.49	PK
V	11590	40.77	30.55	5.77	24.66	40.65	54.00	-13.35	AV
V	17385	51.81	30.33	6.32	24.55	52.35	74.00	-21.65	PK
V	17385	39.23	30.33	6.32	24.55	39.77	54.00	-14.23	AV
V	23180	49.33	30.85	7.45	24.69	50.62	74.00	-23.38	PK
V	23180	41.10	30.85	7.45	24.69	42.39	54.00	-11.61	AV
H	11590	56.93	30.55	5.77	24.66	56.81	74.00	-17.19	PK
H	11590	41.31	30.55	5.77	24.66	41.19	54.00	-12.81	AV
H	17385	52.58	30.33	6.32	24.55	53.12	74.00	-20.88	PK
H	17385	40.29	30.33	6.32	24.55	40.83	54.00	-13.17	AV
H	23180	50.00	30.85	7.45	24.69	51.29	74.00	-22.71	PK
H	23180	40.06	30.85	7.45	24.69	41.35	54.00	-12.65	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,

Margin= Emission Level - Limit

2. If peak below the average limit, the average emission was no test.

3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

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Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Low Channel:5180MHz									
V	10360	56.50	30.55	5.77	24.66	56.38	74.00	-17.62	PK
V	10360	41.43	30.55	5.77	24.66	41.31	54.00	-12.69	AV
V	15540	53.45	30.33	6.32	24.55	53.99	74.00	-20.01	PK
V	15540	41.36	30.33	6.32	24.55	41.90	54.00	-12.10	AV
V	20720	51.68	30.85	7.45	24.69	52.97	74.00	-21.03	PK
V	20720	40.95	30.85	7.45	24.69	42.24	54.00	-11.76	AV
H	10360	56.33	30.55	5.77	24.66	56.21	74.00	-17.79	PK
H	10360	40.19	30.55	5.77	24.66	40.07	54.00	-13.93	AV
H	15540	51.83	30.33	6.32	24.55	52.37	74.00	-21.63	PK
H	15540	39.81	30.33	6.32	24.55	40.35	54.00	-13.65	AV
H	20720	51.74	30.85	7.45	24.69	53.03	74.00	-20.97	PK
H	20720	39.43	30.85	7.45	24.69	40.72	54.00	-13.28	AV

Polar (H/V)	Frequency	Meter Reading	Pre-amp lifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Middle Channel:5200MHz									
V	10400	57.53	30.55	5.77	24.66	57.41	74.00	-16.59	PK
V	10400	40.41	30.55	5.77	24.66	40.29	54.00	-13.71	AV
V	15600	52.29	30.33	6.32	24.55	52.83	74.00	-21.17	PK
V	15600	39.04	30.33	6.32	24.55	39.58	54.00	-14.42	AV
V	20800	50.46	30.85	7.45	24.69	51.75	74.00	-22.25	PK
V	20800	39.15	30.85	7.45	24.69	40.44	54.00	-13.56	AV
H	10400	57.74	30.55	5.77	24.66	57.62	74.00	-16.38	PK
H	10400	40.18	30.55	5.77	24.66	40.06	54.00	-13.94	AV
H	15600	53.57	30.33	6.32	24.55	54.11	74.00	-19.89	PK
H	15600	41.61	30.33	6.32	24.55	42.15	54.00	-11.85	AV
H	20800	49.63	30.85	7.45	24.69	50.92	74.00	-23.08	PK
H	20800	41.35	30.85	7.45	24.69	42.64	54.00	-11.36	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5240MHz									
V	10480	56.31	30.55	5.77	24.66	56.19	74.00	-17.81	PK
V	10480	40.07	30.55	5.77	24.66	39.95	54.00	-14.05	AV
V	15720	52.84	30.33	6.32	24.55	53.38	74.00	-20.62	PK
V	15720	40.80	30.33	6.32	24.55	41.34	54.00	-12.66	AV
V	20960	49.62	30.85	7.45	24.69	50.91	74.00	-23.09	PK
V	20960	41.16	30.85	7.45	24.69	42.45	54.00	-11.55	AV
H	10480	55.99	30.55	5.77	24.66	55.87	74.00	-18.13	PK
H	10480	42.01	30.55	5.77	24.66	41.89	54.00	-12.11	AV
H	15720	52.80	30.33	6.32	24.55	53.34	74.00	-20.66	PK
H	15720	40.20	30.33	6.32	24.55	40.74	54.00	-13.26	AV
H	20960	50.86	30.85	7.45	24.69	52.15	74.00	-21.85	PK
H	20960	39.22	30.85	7.45	24.69	40.51	54.00	-13.49	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5745MHz									
V	11490	56.36	30.55	5.77	24.66	56.24	74.00	-17.76	PK
V	11490	41.47	30.55	5.77	24.66	41.35	54.00	-12.65	AV
V	17235	52.03	30.33	6.32	24.55	52.57	74.00	-21.43	PK
V	17235	39.01	30.33	6.32	24.55	39.55	54.00	-14.45	AV
V	22980	51.42	30.85	7.45	24.69	52.71	74.00	-21.29	PK
V	22980	41.29	30.85	7.45	24.69	42.58	54.00	-11.42	AV
H	11490	55.88	30.55	5.77	24.66	55.76	74.00	-18.24	PK
H	11490	40.40	30.55	5.77	24.66	40.28	54.00	-13.72	AV
H	17235	53.36	30.33	6.32	24.55	53.90	74.00	-20.10	PK
H	17235	40.25	30.33	6.32	24.55	40.79	54.00	-13.21	AV
H	22980	50.55	30.85	7.45	24.69	51.84	74.00	-22.16	PK
H	22980	40.79	30.85	7.45	24.69	42.08	54.00	-11.92	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5785MHz									
V	11570	57.44	30.55	5.77	24.66	57.32	74.00	-16.68	PK
V	11570	39.77	30.55	5.77	24.66	39.65	54.00	-14.35	AV
V	17355	53.47	30.33	6.32	24.55	54.01	74.00	-19.99	PK
V	17355	41.18	30.33	6.32	24.55	41.72	54.00	-12.28	AV
V	23140	49.64	30.85	7.45	24.69	50.93	74.00	-23.07	PK
V	23140	41.69	30.85	7.45	24.69	42.98	54.00	-11.02	AV
H	11570	57.18	30.55	5.77	24.66	57.06	74.00	-16.94	PK
H	11570	40.70	30.55	5.77	24.66	40.58	54.00	-13.42	AV
H	17355	52.86	30.33	6.32	24.55	53.40	74.00	-20.60	PK
H	17355	40.37	30.33	6.32	24.55	40.91	54.00	-13.09	AV
H	23140	51.17	30.85	7.45	24.69	52.46	74.00	-21.54	PK
H	23140	41.75	30.85	7.45	24.69	43.04	54.00	-10.96	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5795MHz									
V	11590	56.17	30.55	5.77	24.66	56.05	74.00	-17.95	PK
V	11590	40.16	30.55	5.77	24.66	40.04	54.00	-13.96	AV
V	17385	52.16	30.33	6.32	24.55	52.70	74.00	-21.30	PK
V	17385	39.18	30.33	6.32	24.55	39.72	54.00	-14.28	AV
V	23180	50.12	30.85	7.45	24.69	51.41	74.00	-22.59	PK
V	23180	40.78	30.85	7.45	24.69	42.07	54.00	-11.93	AV
H	11590	56.15	30.55	5.77	24.66	56.03	74.00	-17.97	PK
H	11590	42.30	30.55	5.77	24.66	42.18	54.00	-11.82	AV
H	17385	52.00	30.33	6.32	24.55	52.54	74.00	-21.46	PK
H	17385	38.93	30.33	6.32	24.55	39.47	54.00	-14.53	AV
H	23180	51.22	30.85	7.45	24.69	52.51	74.00	-21.49	PK
H	23180	41.61	30.85	7.45	24.69	42.90	54.00	-11.10	AV

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Polar (H/V)	Frequency	Meter Reading	Pre-amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel:5190MHz									
V	10380	57.44	30.55	5.77	24.66	57.32	74.00	-16.68	PK
V	10380	39.12	30.55	5.77	24.66	39.00	54.00	-15.00	AV
V	15570	51.81	30.33	6.32	24.55	52.35	74.00	-21.65	PK
V	15570	39.64	30.33	6.32	24.55	40.18	54.00	-13.82	AV
V	20760	50.66	30.85	7.45	24.69	51.95	74.00	-22.05	PK
V	20760	39.69	30.85	7.45	24.69	40.98	54.00	-13.02	AV
H	10380	55.07	30.55	5.77	24.66	54.95	74.00	-19.05	PK
H	10380	41.15	30.55	5.77	24.66	41.03	54.00	-12.97	AV
H	15570	52.63	30.33	6.32	24.55	53.17	74.00	-20.83	PK
H	15570	41.03	30.33	6.32	24.55	41.57	54.00	-12.43	AV
H	20760	51.16	30.85	7.45	24.69	52.45	74.00	-21.55	PK
H	20760	39.80	30.85	7.45	24.69	41.09	54.00	-12.91	AV

Polar (H/V)	Frequenc y	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Middle Channel:5230MHz									
V	10460	56.69	30.55	5.77	24.66	56.57	74.00	-17.43	PK
V	10460	40.37	30.55	5.77	24.66	40.25	54.00	-13.75	AV
V	15690	53.43	30.33	6.32	24.55	53.97	74.00	-20.03	PK
V	15690	41.25	30.33	6.32	24.55	41.79	54.00	-12.21	AV
V	20920	50.84	30.85	7.45	24.69	52.13	74.00	-21.87	PK
V	20920	40.96	30.85	7.45	24.69	42.25	54.00	-11.75	AV
H	10460	57.12	30.55	5.77	24.66	57.00	74.00	-17.00	PK
H	10460	41.61	30.55	5.77	24.66	41.49	54.00	-12.51	AV
H	15690	52.85	30.33	6.32	24.55	53.39	74.00	-20.61	PK
H	15690	39.31	30.33	6.32	24.55	39.85	54.00	-14.15	AV
H	20920	50.86	30.85	7.45	24.69	52.15	74.00	-21.85	PK
H	20920	40.35	30.85	7.45	24.69	41.64	54.00	-12.36	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5755MHz									
V	11510	56.13	30.55	5.77	24.66	56.01	74.00	-17.99	PK
V	11510	39.20	30.55	5.77	24.66	39.08	54.00	-14.92	AV
V	17265	53.43	30.33	6.32	24.55	53.97	74.00	-20.03	PK
V	17265	39.56	30.33	6.32	24.55	40.10	54.00	-13.90	AV
V	23020	49.53	30.85	7.45	24.69	50.82	74.00	-23.18	PK
V	23020	41.41	30.85	7.45	24.69	42.70	54.00	-11.30	AV
H	11510	55.41	30.55	5.77	24.66	55.29	74.00	-18.71	PK
H	11510	41.33	30.55	5.77	24.66	41.21	54.00	-12.79	AV
H	17265	52.20	30.33	6.32	24.55	52.74	74.00	-21.26	PK
H	17265	40.85	30.33	6.32	24.55	41.39	54.00	-12.61	AV
H	23020	48.79	30.85	7.45	24.69	50.08	74.00	-23.92	PK
H	23020	39.20	30.85	7.45	24.69	40.49	54.00	-13.51	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5795MHz									
V	11590	56.64	30.55	5.77	24.66	56.52	74.00	-17.48	PK
V	11590	38.99	30.55	5.77	24.66	38.87	54.00	-15.13	AV
V	17385	52.34	30.33	6.32	24.55	52.88	74.00	-21.12	PK
V	17385	40.74	30.33	6.32	24.55	41.28	54.00	-12.72	AV
V	23180	49.35	30.85	7.45	24.69	50.64	74.00	-23.36	PK
V	23180	39.19	30.85	7.45	24.69	40.48	54.00	-13.52	AV
H	11590	55.72	30.55	5.77	24.66	55.60	74.00	-18.40	PK
H	11590	40.73	30.55	5.77	24.66	40.61	54.00	-13.39	AV
H	17385	53.50	30.33	6.32	24.55	54.04	74.00	-19.96	PK
H	17385	39.96	30.33	6.32	24.55	40.50	54.00	-13.50	AV
H	23180	50.75	30.85	7.45	24.69	52.04	74.00	-21.96	PK
H	23180	39.69	30.85	7.45	24.69	40.98	54.00	-13.02	AV

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Polar (H/V)	Frequenc y	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
5210MHz									
V	10420	57.49	30.55	5.77	24.66	57.37	74.00	-16.63	PK
V	10420	39.76	30.55	5.77	24.66	39.64	54.00	-14.36	AV
V	15630	52.92	30.33	6.32	24.55	53.46	74.00	-20.54	PK
V	15630	39.65	30.33	6.32	24.55	40.19	54.00	-13.81	AV
V	20840	49.92	30.85	7.45	24.69	51.21	74.00	-22.79	PK
V	20840	39.97	30.85	7.45	24.69	41.26	54.00	-12.74	AV
H	10420	56.54	30.55	5.77	24.66	56.42	74.00	-17.58	PK
H	10420	40.32	30.55	5.77	24.66	40.20	54.00	-13.80	AV
H	15630	52.05	30.33	6.32	24.55	52.59	74.00	-21.41	PK
H	15630	39.57	30.33	6.32	24.55	40.11	54.00	-13.89	AV
H	20840	48.85	30.85	7.45	24.69	50.14	74.00	-23.86	PK
H	20840	39.37	30.85	7.45	24.69	40.66	54.00	-13.34	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5775MHz									
V	11550	55.24	30.55	5.77	24.66	55.12	74.00	-18.88	PK
V	11550	40.55	30.55	5.77	24.66	40.43	54.00	-13.57	AV
V	17325	52.39	30.33	6.32	24.55	52.93	74.00	-21.07	PK
V	17325	39.22	30.33	6.32	24.55	39.76	54.00	-14.24	AV
V	23100	51.10	30.85	7.45	24.69	52.39	74.00	-21.61	PK
V	23100	40.91	30.85	7.45	24.69	42.20	54.00	-11.80	AV
H	11550	57.15	30.55	5.77	24.66	57.03	74.00	-16.97	PK
H	11550	41.61	30.55	5.77	24.66	41.49	54.00	-12.51	AV
H	17325	53.20	30.33	6.32	24.55	53.74	74.00	-20.26	PK
H	17325	39.65	30.33	6.32	24.55	40.19	54.00	-13.81	AV
H	23100	51.51	30.85	7.45	24.69	52.80	74.00	-21.20	PK
H	23100	39.26	30.85	7.45	24.69	40.55	54.00	-13.45	AV

Radiated Band Edge Test:

Worse case mode:		802.11a		Test channel:		36	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5150	55.09	-0.12	54.97	74.00	-19.03	peak	H
	41.24	-0.12	41.12	54.00	-12.88	AV	H
5150	52.95	-0.12	52.83	74.00	-21.17	peak	V
	37.67	-0.12	37.55	54.00	-16.45	AV	V

Worse case mode:		802.11a		Test channel:		48	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5250	53.04	-0.12	52.92	74.00	-21.08	peak	H
	39.85	-0.12	39.73	54.00	-14.27	AV	H
5250	56.00	-0.12	55.88	74.00	-18.12	peak	V
	39.75	-0.12	39.63	54.00	-14.37	AV	V

Worse case mode:		802.11a		Test channel:		149	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5650	48.07	-0.12	47.95	68.20	-20.25	peak	H
5700	86.03	-0.12	85.91	105.20	-19.29	peak	H
5720	87.82	-0.12	87.70	110.80	-23.10	peak	H
5725	99.35	-0.12	99.23	122.20	-22.97	peak	H
5650	46.58	-0.12	46.46	68.20	-21.74	peak	V
5700	85.91	-0.12	85.79	105.20	-19.41	peak	V
5720	87.18	-0.12	87.06	110.80	-23.74	peak	V
5725	95.53	-0.12	95.41	122.20	-26.79	peak	V

Worse case mode:		802.11a		Test channel:		165	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5850	102.31	-0.12	102.19	122.20	-20.01	peak	H
5855	87.88	-0.12	87.76	110.80	-23.04	peak	H
5875	83.99	-0.12	83.87	105.20	-21.33	peak	H
5925	51.70	-0.12	51.58	68.20	-16.62	peak	H
5850	103.73	-0.12	103.61	122.20	-18.59	peak	V
5855	89.80	-0.12	89.68	110.80	-21.12	peak	V
5875	82.16	-0.12	82.04	105.20	-23.16	peak	V
5925	51.05	-0.12	50.93	68.20	-17.27	peak	V

Worse case mode:		802.11n20		Test channel:		36	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5150	53.26	-0.12	53.14	74.00	-20.86	peak	H
	41.17	-0.12	41.05	54.00	-12.95	AV	H
5150	54.98	-0.12	54.86	74.00	-19.14	peak	V
	40.06	-0.12	39.94	54.00	-14.06	AV	V

Worse case mode:		802.11n20		Test channel:		48	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5250	54.83	-0.12	54.71	74.00	-19.29	peak	H
	40.91	-0.12	40.79	54.00	-13.21	AV	H
5250	54.67	-0.12	54.55	74.00	-19.45	peak	V
	40.57	-0.12	40.45	54.00	-13.55	AV	V

Worse case mode:		802.11n20		Test channel:		149	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5650	50.26	-0.12	50.14	68.20	-18.06	peak	H
5700	87.76	-0.12	87.64	105.20	-17.56	peak	H
5720	90.13	-0.12	90.01	110.80	-20.79	peak	H
5725	96.67	-0.12	96.55	122.20	-25.65	peak	H
5650	48.79	-0.12	48.67	68.20	-19.53	peak	V
5700	85.17	-0.12	85.05	105.20	-20.15	peak	V
5720	90.88	-0.12	90.76	110.80	-20.04	peak	V
5725	94.02	-0.12	93.90	122.20	-28.30	peak	V

Worse case mode:		802.11n20		Test channel:		165	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5850	105.67	-0.12	105.55	122.20	-16.65	peak	H
5855	89.18	-0.12	89.06	110.80	-21.74	peak	H
5875	82.77	-0.12	82.65	105.20	-22.55	peak	H
5925	52.60	-0.12	52.48	68.20	-15.72	peak	H
5850	101.48	-0.12	101.36	122.20	-20.84	peak	V
5855	89.08	-0.12	88.96	110.80	-21.84	peak	V
5875	84.66	-0.12	84.54	105.20	-20.66	peak	V
5925	50.17	-0.12	50.05	68.20	-18.15	peak	V

Worse case mode:		802.11n40		Test channel:		38	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5150	54.51	-0.12	54.39	74.00	-19.61	peak	H
	38.81	-0.12	38.69	54.00	-15.31	AV	H
5150	54.05	-0.12	53.93	74.00	-20.07	peak	V
	38.51	-0.12	38.39	54.00	-15.61	AV	V

Worse case mode:		802.11n40		Test channel:		46	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5250	54.02	-0.12	53.90	74.00	-20.10	peak	H
	38.56	-0.12	38.44	54.00	-15.56	AV	H
5250	53.86	-0.12	53.74	74.00	-20.26	peak	V
	40.39	-0.12	40.27	54.00	-13.73	AV	V

Worse case mode:		802.11n40		Test channel:		151	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5650	49.61	-0.12	49.49	68.20	-18.71	peak	H
5700	86.02	-0.12	85.90	105.20	-19.30	peak	H
5720	89.59	-0.12	89.47	110.80	-21.33	peak	H
5725	96.32	-0.12	96.20	122.20	-26.00	peak	H
5650	49.25	-0.12	49.13	68.20	-19.07	peak	V
5700	86.88	-0.12	86.76	105.20	-18.44	peak	V
5720	88.38	-0.12	88.26	110.80	-22.54	peak	V
5725	95.65	-0.12	95.53	122.20	-26.67	peak	V

Worse case mode:		802.11n40		Test channel:		159	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5850	101.99	-0.12	101.87	122.20	-20.33	peak	H
5855	87.38	-0.12	87.26	110.80	-23.54	peak	H
5875	83.83	-0.12	83.71	105.20	-21.49	peak	H
5925	52.20	-0.12	52.08	68.20	-16.12	peak	H
5850	103.65	-0.12	103.53	122.20	-18.67	peak	V
5855	85.50	-0.12	85.38	110.80	-25.42	peak	V
5875	84.24	-0.12	84.12	105.20	-21.08	peak	V
5925	53.12	-0.12	53.00	68.20	-15.20	peak	V

Worse case mode:		802.11ac20		Test channel:		36	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5150	52.94	-0.12	52.82	74.00	-21.18	peak	H
	39.27	-0.12	39.15	54.00	-14.85	AV	H
5150	55.48	-0.12	55.36	74.00	-18.64	peak	V
	38.95	-0.12	38.83	54.00	-15.17	AV	V

Worse case mode:		802.11ac20		Test channel:		48	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5250	54.33	-0.12	54.21	74.00	-19.79	peak	H
	39.15	-0.12	39.03	54.00	-14.97	AV	H
5250	54.97	-0.12	54.85	74.00	-19.15	peak	V
	38.69	-0.12	38.57	54.00	-15.43	AV	V

Worse case mode:		802.11ac20		Test channel:		149	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5650	48.41	-0.12	48.29	68.20	-19.91	peak	H
5700	87.64	-0.12	87.52	105.20	-17.68	peak	H
5720	89.23	-0.12	89.11	110.80	-21.69	peak	H
5725	96.18	-0.12	96.06	122.20	-26.14	peak	H
5650	48.90	-0.12	48.78	68.20	-19.42	peak	V
5700	87.70	-0.12	87.58	105.20	-17.62	peak	V
5720	88.17	-0.12	88.05	110.80	-22.75	peak	V
5725	94.65	-0.12	94.53	122.20	-27.67	peak	V

Worse case mode:		802.11ac20		Test channel:		165	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5850	105.12	-0.12	105.00	122.20	-17.20	peak	H
5855	86.60	-0.12	86.48	110.80	-24.32	peak	H
5875	82.97	-0.12	82.85	105.20	-22.35	peak	H
5925	52.31	-0.12	52.19	68.20	-16.01	peak	H
5850	102.92	-0.12	102.80	122.20	-19.40	peak	V
5855	89.01	-0.12	88.89	110.80	-21.91	peak	V
5875	85.94	-0.12	85.82	105.20	-19.38	peak	V
5925	51.19	-0.12	51.07	68.20	-17.13	peak	V

Worse case mode:		802.11ac40		Test channel:		38	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5150	54.26	-0.12	54.14	74.00	-19.86	peak	H
	41.98	-0.12	41.86	54.00	-12.14	AV	H
5150	55.31	-0.12	55.19	74.00	-18.81	peak	V
	37.04	-0.12	36.92	54.00	-17.08	AV	V

Worse case mode:		802.11ac40		Test channel:		46	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5250	52.64	-0.12	52.52	74.00	-21.48	peak	H
	41.04	-0.12	40.92	54.00	-13.08	AV	H
5250	52.98	-0.12	52.86	74.00	-21.14	peak	V
	37.03	-0.12	36.91	54.00	-17.09	AV	V

Worse case mode:		802.11ac40		Test channel:		151	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5650	48.94	-0.12	48.82	68.20	-19.38	peak	H
5700	87.90	-0.12	87.78	105.20	-17.42	peak	H
5720	89.46	-0.12	89.34	110.80	-21.46	peak	H
5725	99.46	-0.12	99.34	122.20	-22.86	peak	H
5650	48.36	-0.12	48.24	68.20	-19.96	peak	V
5700	87.85	-0.12	87.73	105.20	-17.47	peak	V
5720	88.44	-0.12	88.32	110.80	-22.48	peak	V
5725	92.93	-0.12	92.81	122.20	-29.39	peak	V

Worse case mode:		802.11ac40		Test channel:		159	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5850	101.27	-0.12	101.15	122.20	-21.05	peak	H
5855	88.57	-0.12	88.45	110.80	-22.35	peak	H
5875	84.17	-0.12	84.05	105.20	-21.15	peak	H
5925	53.15	-0.12	53.03	68.20	-15.17	peak	H
5850	100.71	-0.12	100.59	122.20	-21.61	peak	V
5855	85.58	-0.12	85.46	110.80	-25.34	peak	V
5875	82.25	-0.12	82.13	105.20	-23.07	peak	V
5925	52.42	-0.12	52.30	68.20	-15.90	peak	V

Worse case mode:		802.11ac80		Test channel:		42	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5150	54.07	-0.12	53.95	74.00	-20.05	peak	H
	38.88	-0.12	38.76	54.00	-15.24	AV	H
5150	53.40	-0.12	53.28	74.00	-20.72	peak	V
	40.54	-0.12	40.42	54.00	-13.58	AV	V
5250	55.15	-0.12	55.03	74.00	-18.97	peak	H
	41.46	-0.12	41.34	54.00	-12.66	AV	H
5250	55.52	-0.12	55.40	74.00	-18.60	peak	V
	40.38	-0.12	40.26	54.00	-13.74	AV	V

Worse case mode:		802.11ac80		Test channel:		155	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5650	50.84	-0.12	50.72	68.20	-17.48	peak	H
5700	86.57	-0.12	86.45	105.20	-18.75	peak	H
5720	87.06	-0.12	86.94	110.80	-23.86	peak	H
5725	98.76	-0.12	98.64	122.20	-23.56	peak	H
5650	46.51	-0.12	46.39	68.20	-21.81	peak	V
5700	85.39	-0.12	85.27	105.20	-19.93	peak	V
5720	90.50	-0.12	90.38	110.80	-20.42	peak	V
5725	92.90	-0.12	92.78	122.20	-29.42	peak	V
5850	103.17	-0.12	103.05	122.20	-19.15	peak	H
5855	87.66	-0.12	87.54	110.80	-23.26	peak	H
5875	86.84	-0.12	86.72	105.20	-18.48	peak	H
5925	51.31	-0.12	51.19	68.20	-17.01	peak	H
5850	101.10	-0.12	100.98	122.20	-21.22	peak	V
5855	89.53	-0.12	89.41	110.80	-21.39	peak	V
5875	86.00	-0.12	85.88	105.20	-19.32	peak	V
5925	50.04	-0.12	49.92	68.20	-18.28	peak	V

5. POWER SPECTRAL DENSITY TEST

Test Requirement:	FCC 47 CFR Part 15 Subpart E Section 15.407 (a)
Test Method:	KDB 789033 D02 v02r01

5.1 APPLIED PROCEDURES / LIMIT

For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the band 5.725-5.850 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

LIMIT:	U-NII-1	11DBM/MHZ
	U-NII-3	30DBM/500KHZ

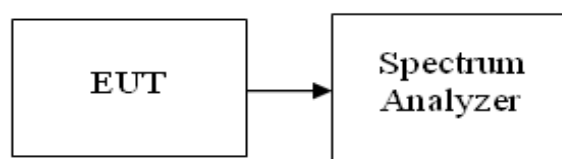
5.2 TEST PROCEDURE

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS bandwidth.
3. Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
4. Set the VBW $\geq 3 \times \text{RBW}$.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level within the RBW.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

5.3 DEVIATION FROM STANDARD

No deviation.

5.4 TEST SETUP



5.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.

5.6 TEST RESULT

Temperature :	26℃	Relative Humidity :	54%
Pressure :	101kPa	Test Voltage :	DC12V
Test Mode :	TX frequency band 1&band4		

BAND1

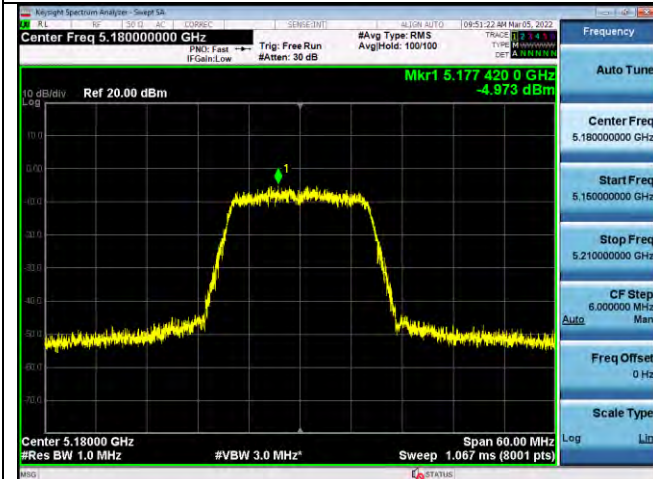
802.11 Mode	Channel No.	Frequency [MHz]	Measured Power Spectral Density [dBm/MHz]	Power Spectral Density Limit [dBm/MHz]
a	36	5180	-4.973	11
	40	5200	-6.05	11
	48	5240	-6.483	11
n (20MHz)	36	5180	-5.143	11
	40	5200	-5.718	11
	48	5240	-6.334	11
n (40MHz)	38	5190	-8.956	11
	46	5230	-9.801	11
ac (20MHz)	36	5180	-5.749	11
	40	5200	-5.24	11
	48	5240	-6.166	11
ac(40MHz)	38	5190	-8.969	11
	46	5230	-10.009	11
ac(80MHz)	42	5210	-13.062	11

BAND 4

802.11 Mode	Channel No.	Frequency [MHz]	Meas PSD [dBm/510kHz]	Meas PSD [dBm/500kHz]	MIMO/CDD Power Density Limit [dBm/500kHz]
a	149	5745	-0.46	-0.546	30
	157	5785	-1.065	-1.151	30
	165	5825	-0.852	-0.938	30
n (20MHz)	149	5745	-0.133	-0.219	30
	157	5785	-0.467	-0.553	30
	165	5825	0.078	-0.008	30
n (40MHz)	151	5755	-0.397	-0.483	30
	159	5795	0.206	0.120	30
ac (20MHz)	149	5745	-1.031	-1.117	30
	157	5785	-2.802	-2.888	30
	165	5825	-3.639	-3.725	30
ac(40MHz)	151	5755	-3.504	-3.590	30
	159	5795	-4.617	-4.703	30
ac(80MHz)	155	5775	-6.801	-6.887	30

Note: Covert PSD [dBm/500KHz]= PSD[dBm/510KHz]+10*log(500/510)

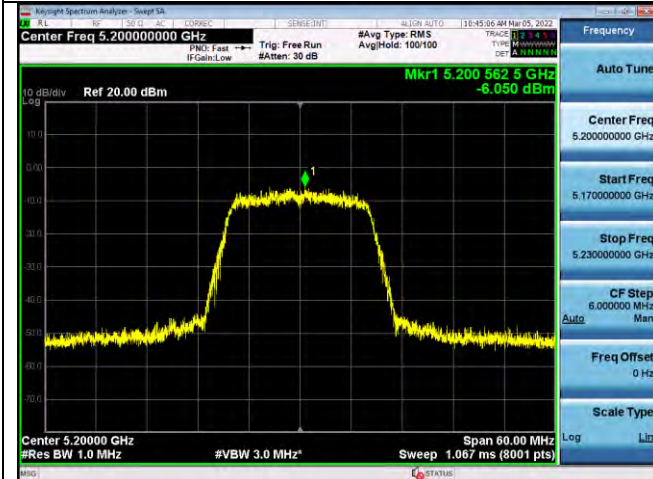
band1 – 802.11a



band1 – 802.11n (20MHz)



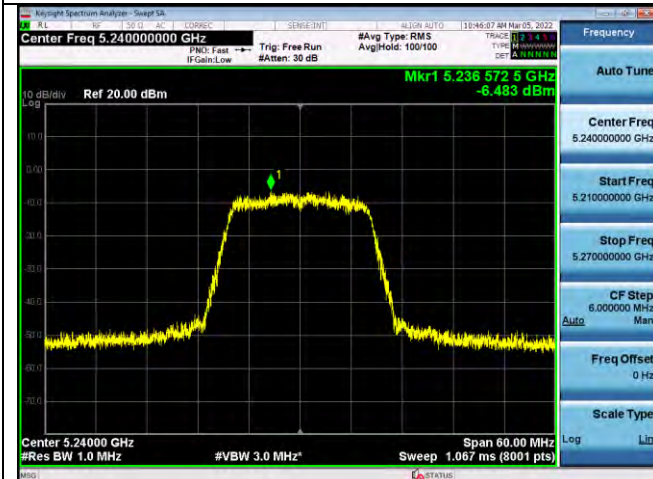
CH36-5180MHz



CH36-5180MHz



CH40-5200MHz

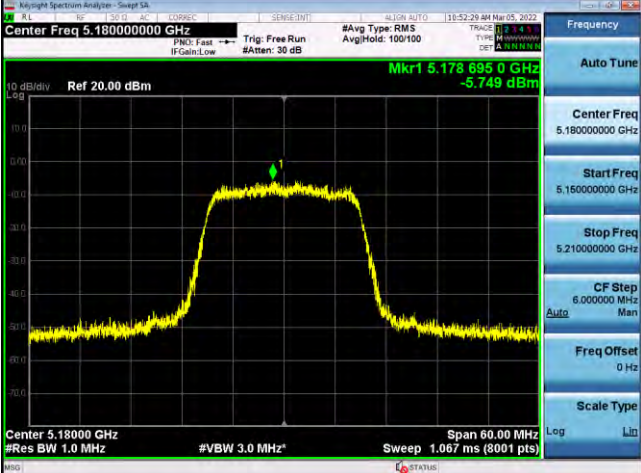
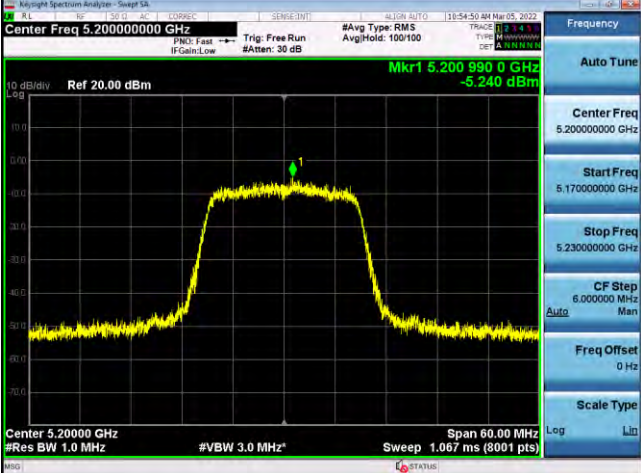


CH40-5200MHz



CH48-5240MHz

CH48-5240MHz

band1 – 802.11ac 20MHz  Center Freq 5.180000000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 1.067 ms (8001 pts) Mkr1 5.178 695 0 GHz -5.749 dBm Ref 20.00 dBm Span 60.00 MHz Center Freq 5.180000000 GHz Start Freq 5.150000000 GHz Stop Freq 5.210000000 GHz CF Step 6.000000 MHz Freq Offset 0 Hz Scale Type Log	
CH36-5180MHz  Center Freq 5.200000000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 1.067 ms (8001 pts) Mkr1 5.200 990 0 GHz -5.240 dBm Ref 20.00 dBm Span 60.00 MHz Center Freq 5.200000000 GHz Start Freq 5.170000000 GHz Stop Freq 5.230000000 GHz CF Step 6.000000 MHz Freq Offset 0 Hz Scale Type Log	
CH40-5200MHz  Center Freq 5.240000000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 1.067 ms (8001 pts) Mkr1 5.241 275 0 GHz -6.166 dBm Ref 20.00 dBm Span 60.00 MHz Center Freq 5.240000000 GHz Start Freq 5.210000000 GHz Stop Freq 5.270000000 GHz CF Step 6.000000 MHz Freq Offset 0 Hz Scale Type Log	
CH48-5240MHz	

band1-802.11n (40MHz)



band1-802.11ac (40MHz)



CH38-5190MHz



CH38-5190MHz



CH46-5230MHz

CH46-5230MHz

band1-802.11ac (80MHz)

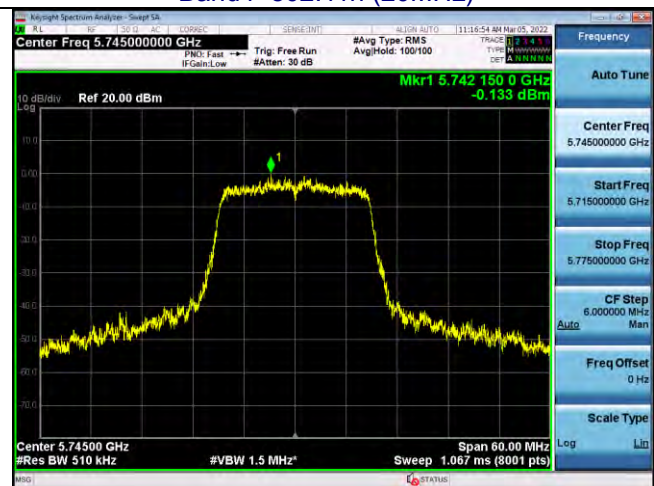


CH42-5210MHz

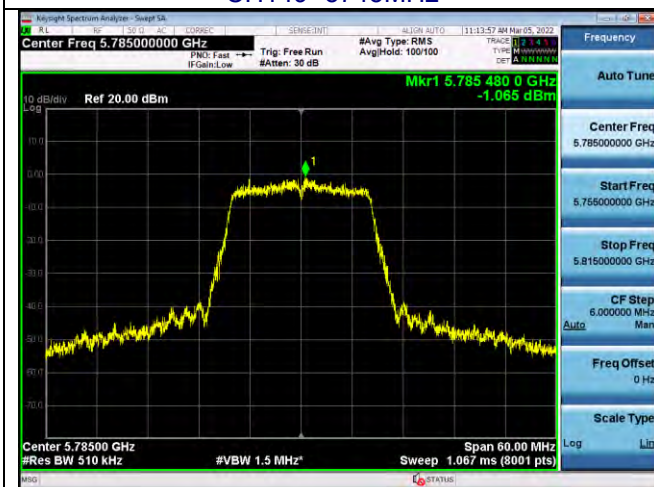
Band 4-802.11a



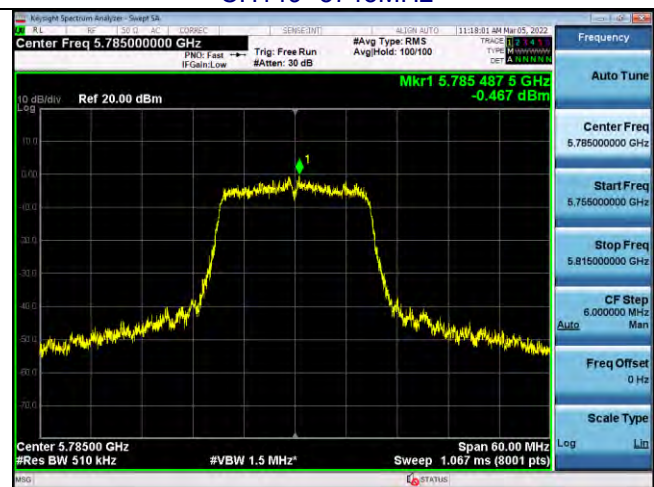
Band4-802.11n (20MHz)



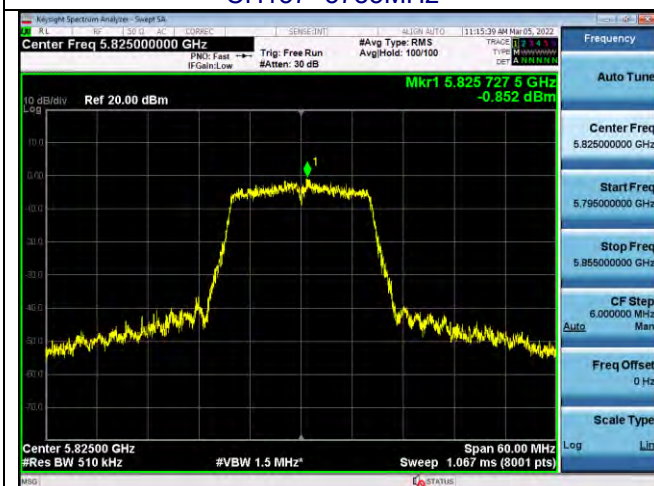
CH149 -5745MHz



CH149 -5745MHz



CH157 -5785MHz



CH157 -5785MHz



CH165 -5825MHz



CH165 -5825MHz



Band4-802.11ac (20MHz)



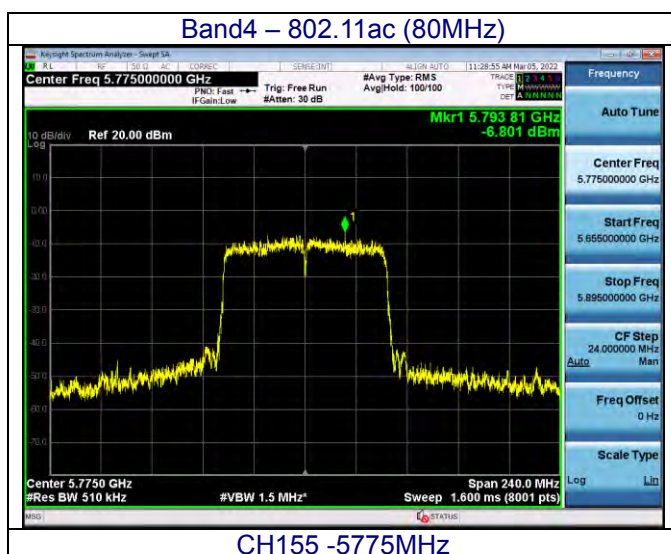
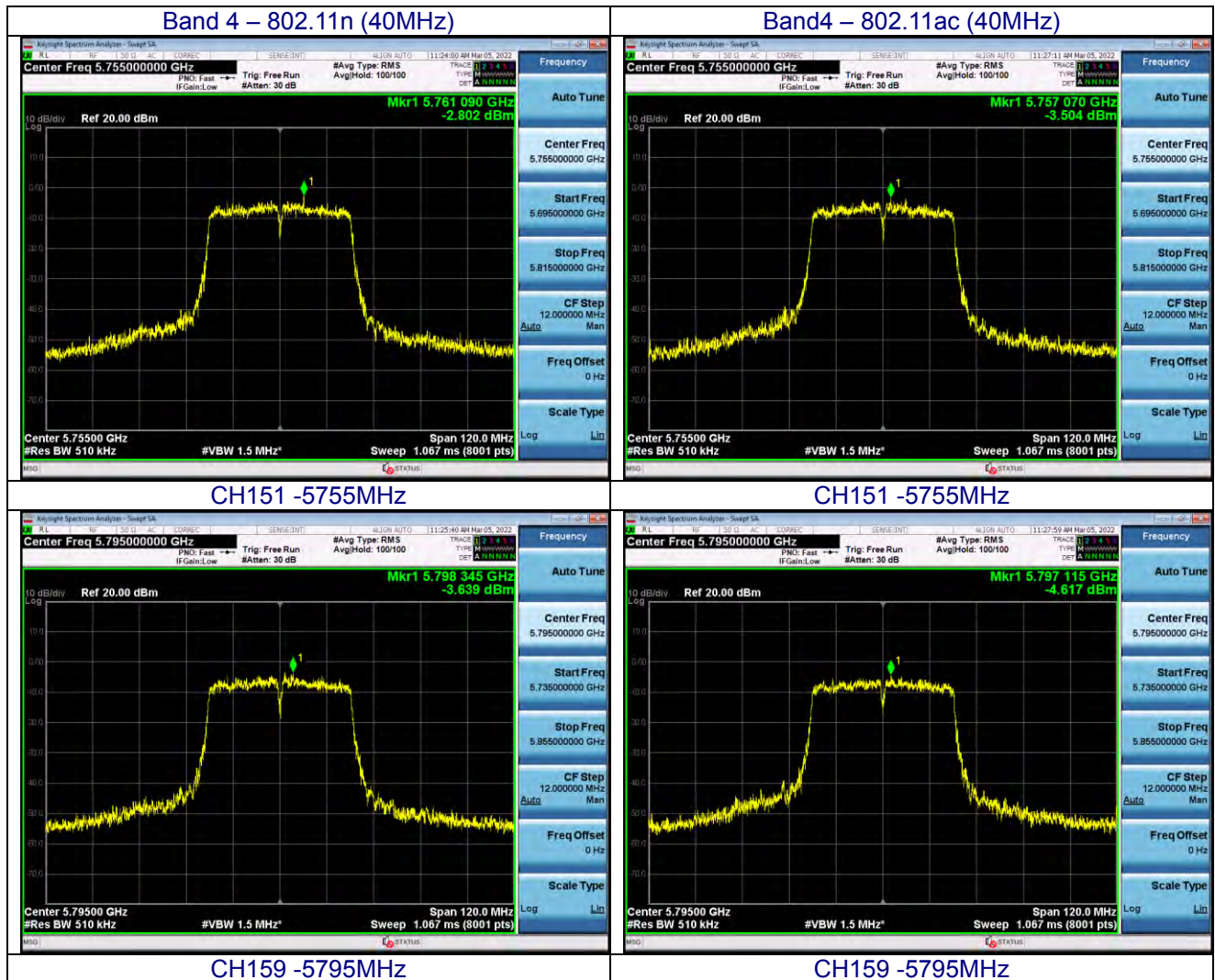
CH149 -5745MHz



CH157 -5785MHz



CH165 -5825MHz



6. -26 DB&6DBM EMISSION BANDWIDTH

Test Requirement:	Part 15 Subpart C Section 15.407 (e)
Test Method:	KDB 789033 D02 v02r01

6.1 APPLIED PROCEDURES / LIMIT

FCC Part15.407 (e)		
Bandwidth		
Limit	Band1	N/A
	Band4	$\geq$ 500 kHz

6.2 TEST PROCEDURE

Place the EUT on the table and set it in the transmitting mode.

Remove the antenna from the EUT and then connect a low-loss RF cable from the antenna port to the spectrum analyzer.

Set the spectrum analyzers RBW = approximately 1% of the emission bandwidth, VBW > RBW, Detector = Peak, Span > 26 dB bandwidth, and Sweep = auto, Trace mode = max hold.

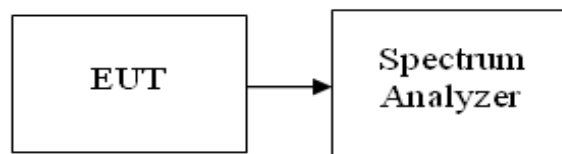
Measure the maximum width of the emission that is 26 dB down from the maximum of the emission.

Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

Repeat until all the rest channels were investigated.

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP**6.5 EUT OPERATION CONDITIONS**

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

6.6 TEST RESULT

Temperature :	26°C	Relative Humidity :	54%
Pressure :	101kPa	Test Voltage :	DC12V
Test Mode :	TX		

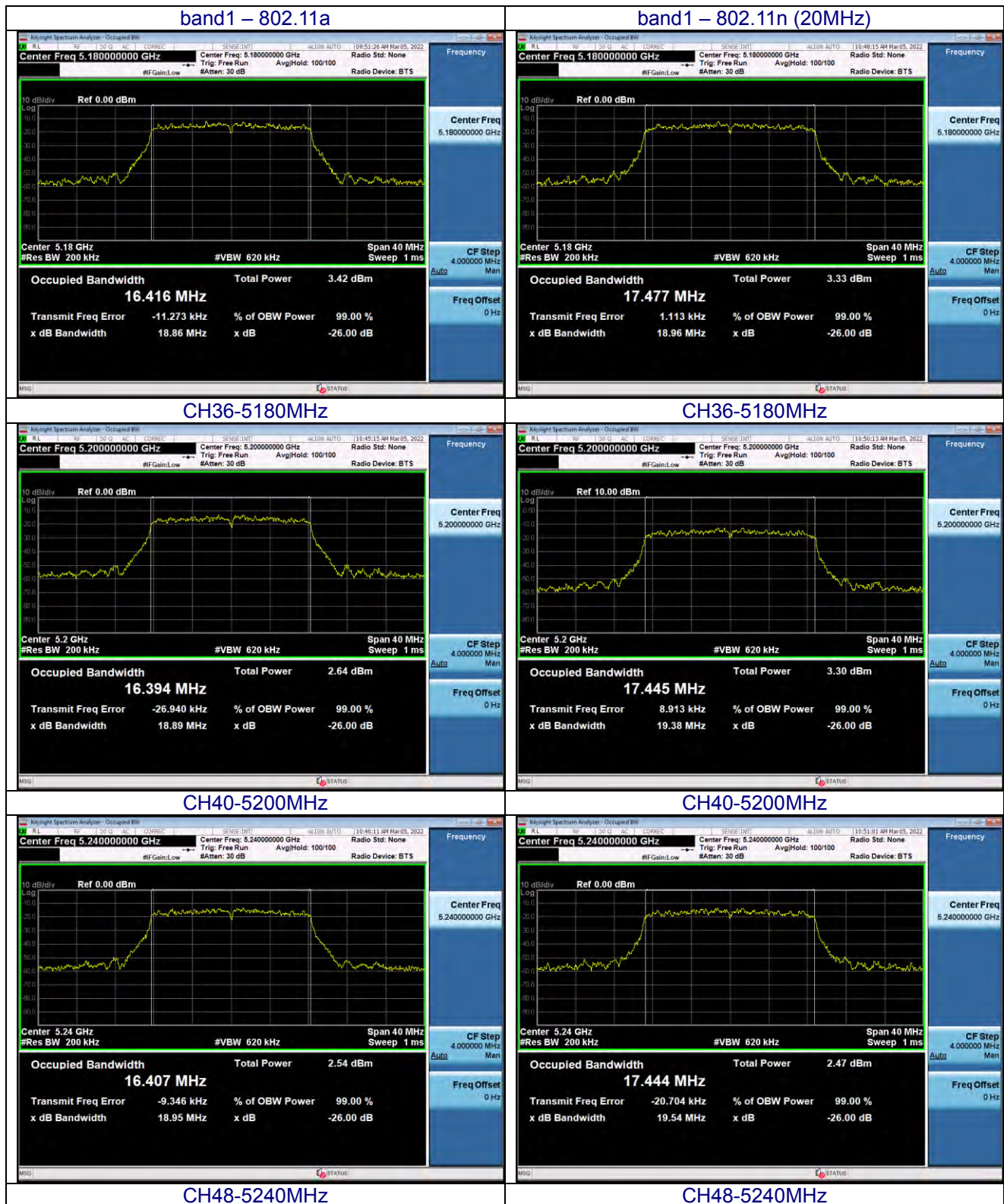
BAND 1

802.11 Mode	Channel No.	Frequency [MHz]	26dB Bandwidth[MHz]	99% Bandwidth[MHz]
a	36	5180	18.86	16.416
	40	5200	18.89	16.394
	48	5240	18.95	16.407
n (20MHz)	36	5180	18.96	17.477
	40	5200	19.38	17.445
	48	5240	19.54	17.444
n (40MHz)	38	5190	38.94	36.041
	46	5230	39.39	36.176
ac (20MHz)	36	5180	19.29	17.491
	40	5200	19.26	17.426
	48	5240	19.26	17.470
ac(40MHz)	38	5190	39.27	36.106
	46	5230	39.49	35.979
ac(80MHz)	42	5210	80.53	74.997

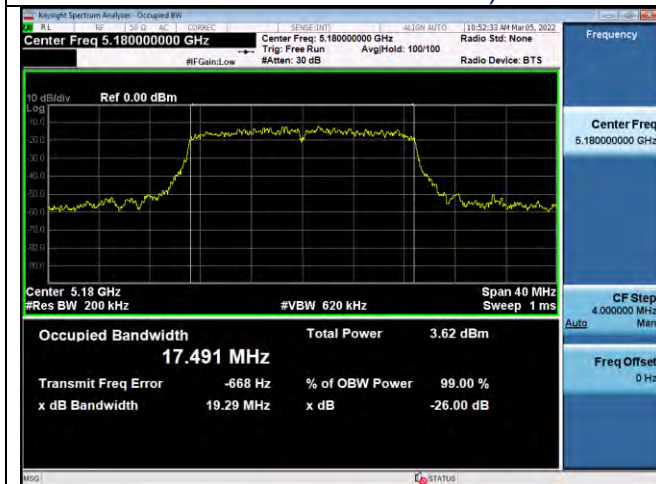
BAND 4

802.11 Mode	Channel No.	Frequency [MHz]	-6dbBandwidth [MHz]	Limit
a	149	5745	16.39	$\geq 500 \text{ kHz}$
	157	5785	16.41	
	165	5825	16.35	
n (20MHz)	149	5745	16.22	
	157	5785	16.67	
	165	5825	16.67	
n (40MHz)	151	5755	35.97	
	159	5795	36.02	
ac (20MHz)	149	5745	15.75	
	157	5785	16.61	
	165	5825	16.29	
ac(40MHz)	151	5755	35.24	
	159	5795	35.68	
ac(80MHz)	155	5775	75.33	

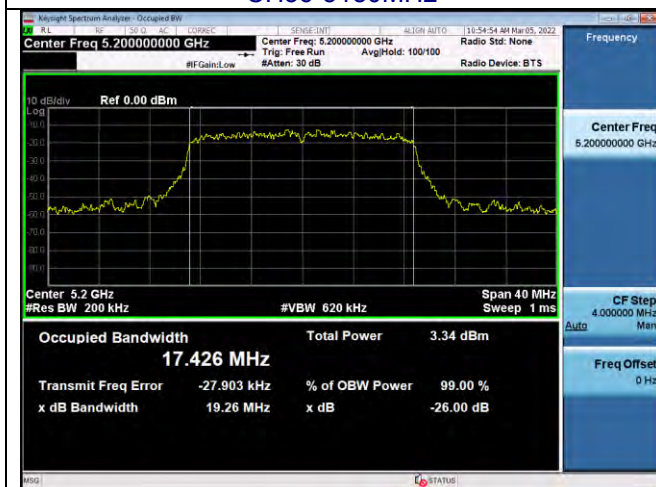
Test plot as follows:



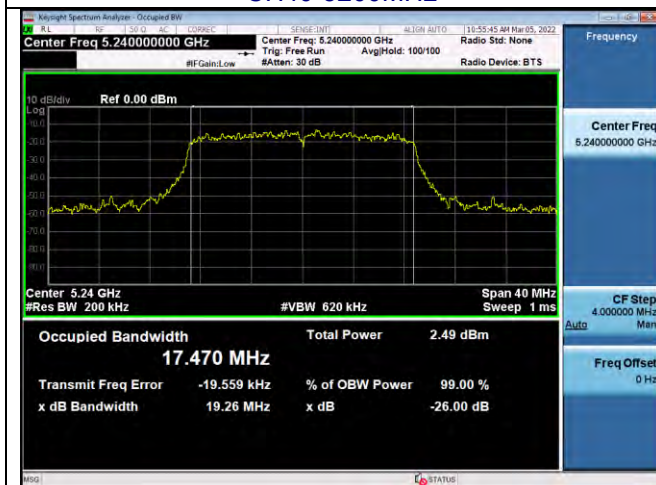
band1 – 802.11ac 20MHz)



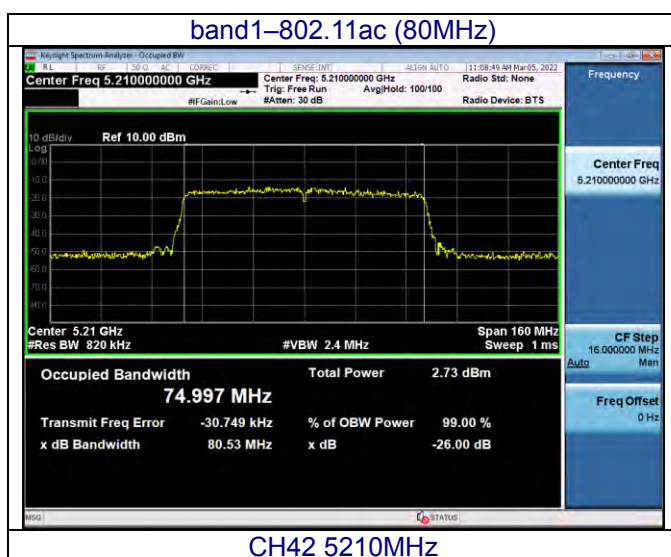
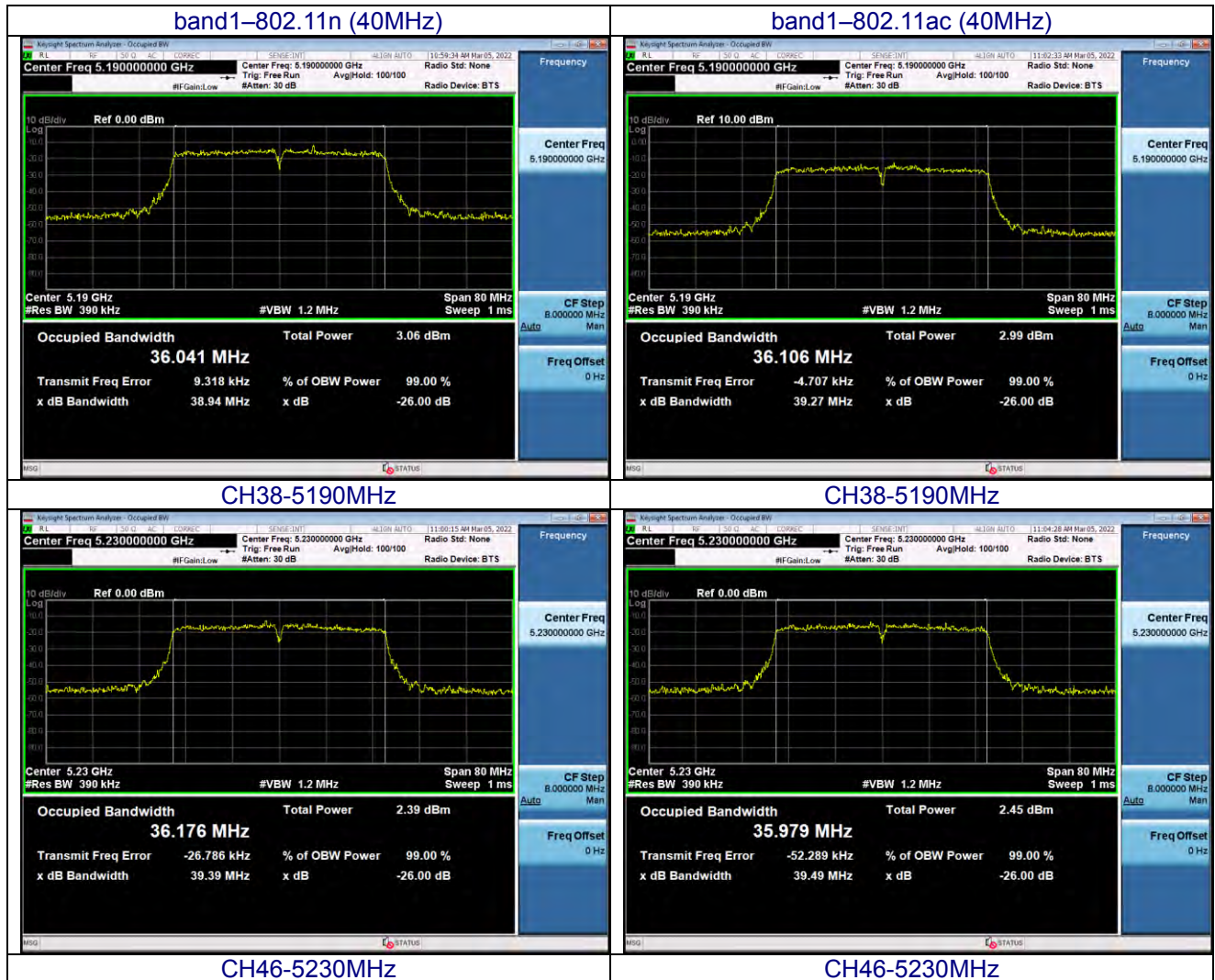
CH36-5180MHz



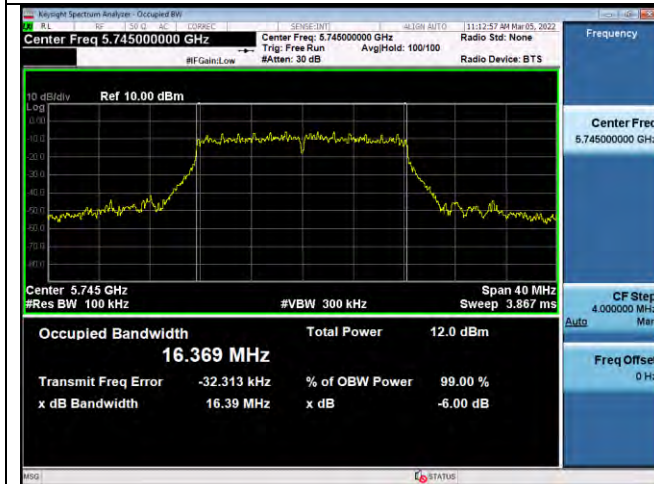
CH40-5200MHz



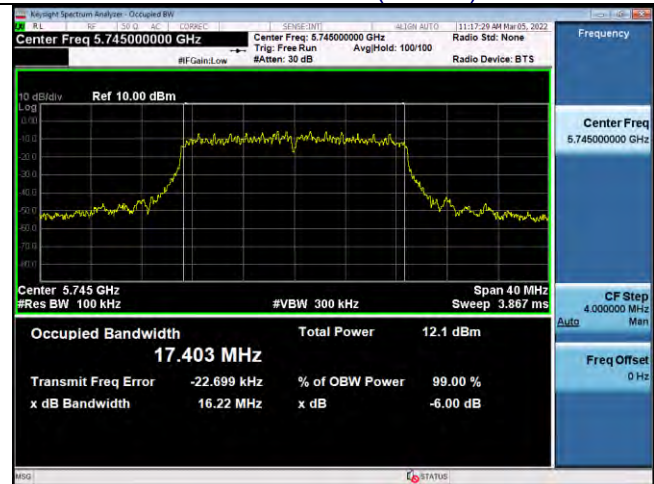
CH48-5240MHz



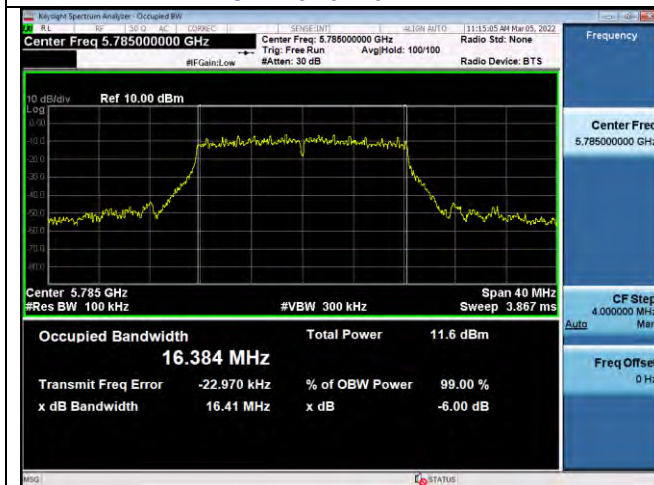
Band 4-802.11a



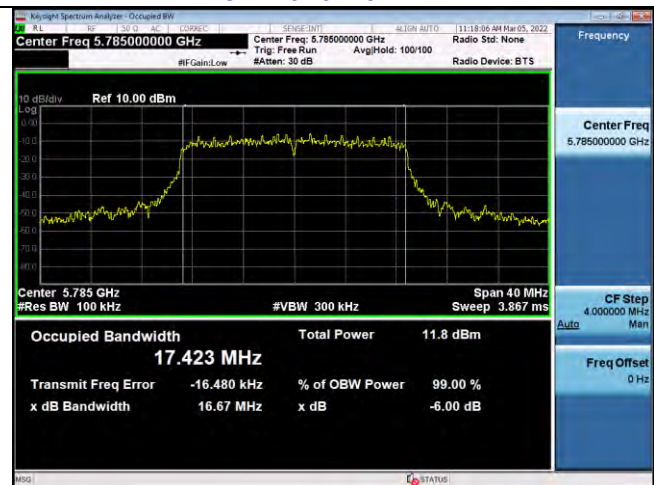
Band 4-802.11n (20MHz)



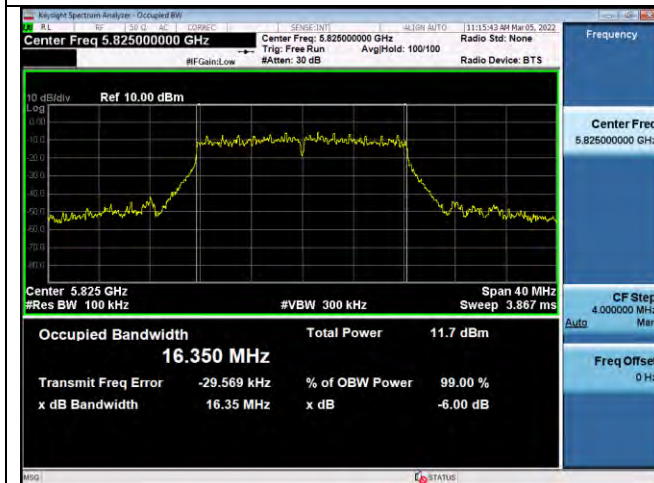
CH149 -5745MHz



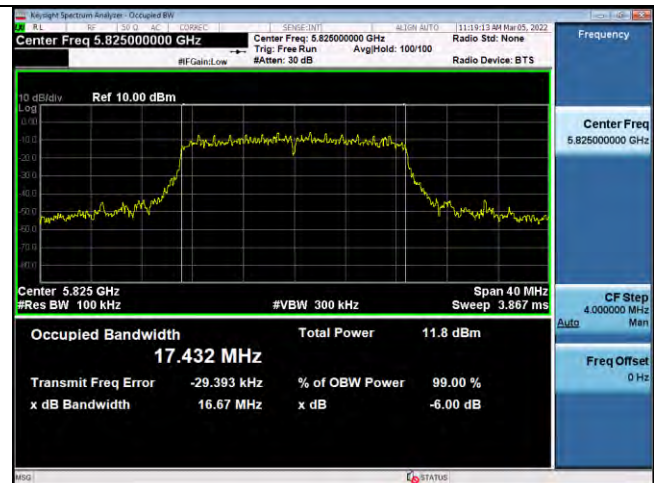
CH149 -5745MHz



CH157 -5785MHz



CH157 -5785MHz



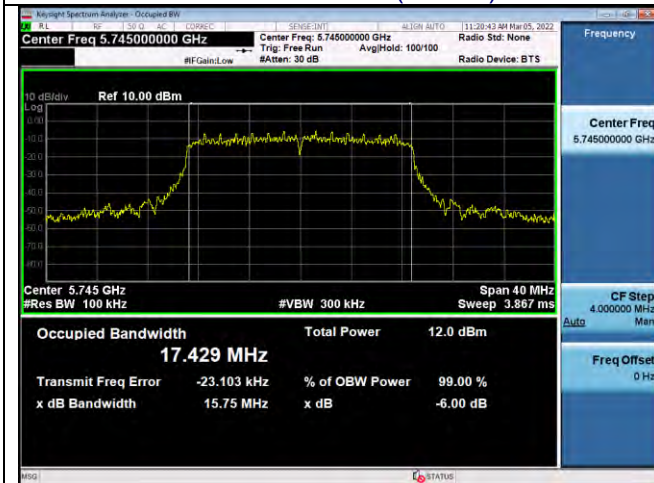
CH165 -5825MHz



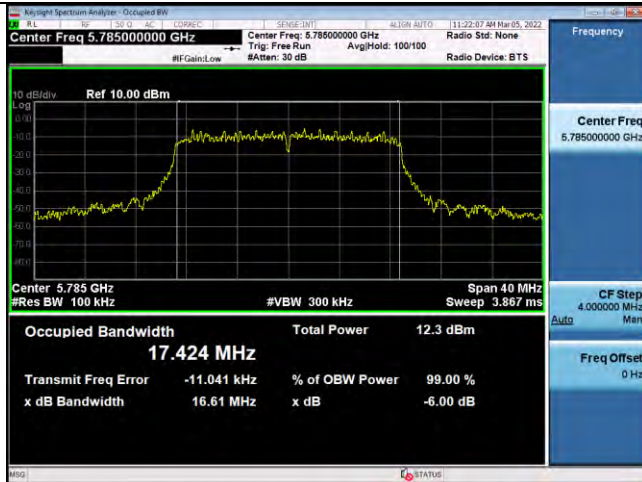
CH165 -5825MHz



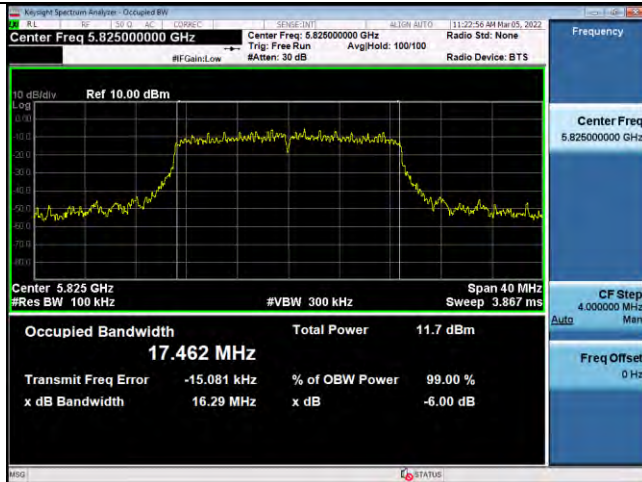
Band 4-802.11ac (20MHz)



CH149 -5745MHz

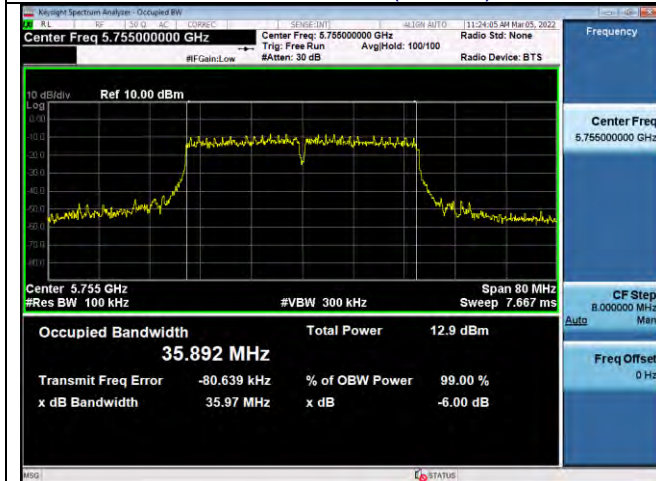


CH157 -5785MHz



CH165 -5825MHz

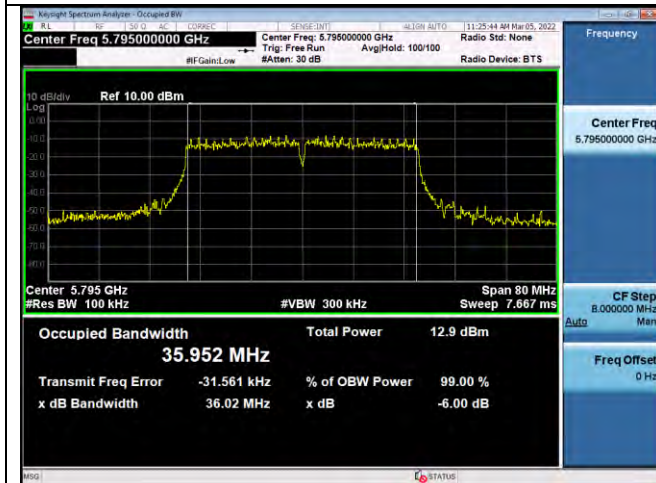
Band 4 – 802.11n (40MHz)



Band 4 – 802.11ac (40MHz)



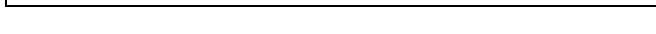
CH151 -5755MHz



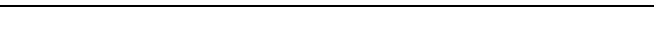
CH151 -5755MHz



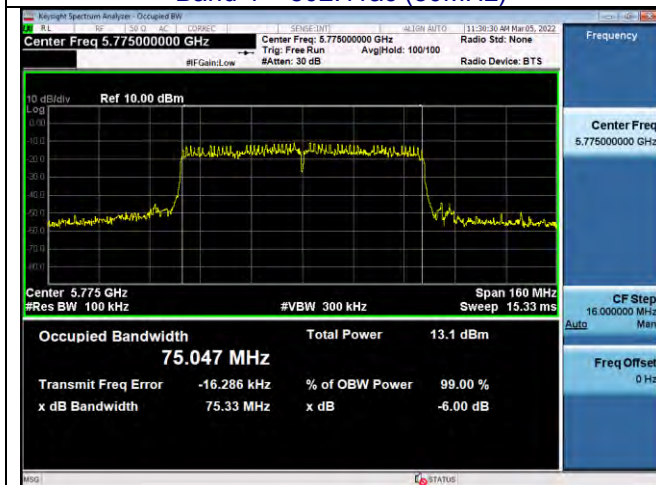
CH159 -5795MHz



CH159 -5795MHz



Band 4 – 802.11ac (80MHz)



CH155 -5775MHz

7.OUTPUT POWER TEST

Test Requirement:	15.407 (a)(1)(2)(3)
Test Method:	KDB 789033 D02 v02r01

7.1 APPLIED PROCEDURES/LIMIT

For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

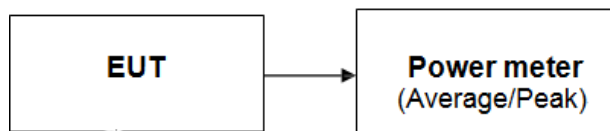
For the band 5.725-5.850 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Test Item	Test band	Limit	Result
Max conducted output power	U-NII-1	0.25W / 23.98dbm	Pass
Max conducted output power	U-NII-3	1 W / 30dbm	Pass

7.2 DEVIATION FROM STANDARD

No deviation.

7.3 TEST SETUP



7.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

7.5 TEST RESULT

Temperature :	26℃	Relative Humidity :	54%
Pressure :	101kPa	Test Voltage :	DC12V

BAND 1

802.11 Mode	Channel No.	Frequency [MHz]	Conducted Power [dBm]	Limit [dBm]
a	36	5180	2.28	23.98
	40	5200	1.61	23.98
	48	5240	1.30	23.98
n(20MHz)	36	5180	2.16	23.98
	40	5200	1.85	23.98
	48	5240	1.10	23.98
n(40MHz)	38	5190	0.97	23.98
	46	5230	0.28	23.98
ac(20MHz)	36	5180	2.15	23.98
	40	5200	1.91	23.98
	48	5240	1.01	23.98
ac(40MHz)	38	5190	1.02	23.98
	46	5230	0.34	23.98
ac(80MHz)	42	5210	-0.78	23.98

BAND 4

802.11 Mode	Channel No.	Frequency [MHz]	Conducted Power [dBm]	Limit [dBm]
a	149	5745	7.11	30.00
	157	5785	7.12	30.00
	165	5825	7.78	30.00
n(20MHz)	149	5745	6.10	30.00
	157	5785	6.92	30.00
	165	5825	6.75	30.00
n (40MHz)	151	5755	5.38	30.00
	159	5795	5.50	30.00
ac (20MHz)	149	5745	7.07	30.00
	157	5785	7.31	30.00
	165	5825	6.83	30.00
ac(40MHz)	151	5755	5.40	30.00
	159	5795	6.13	30.00
ac(80MHz)	155	5775	4.56	30.00

8.OUT OF BAND EDGEEMISSION

Test Requirement:	15.407 (b)
Test Method:	KDB 789033 D02 v02r01

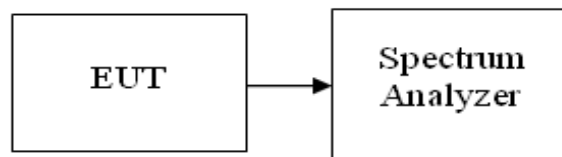
8.1TEST PROCEDURE

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set RBW of spectrum analyzer to 1 MHz with a convenient frequency span.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.

8.2DEVIATION FROM STANDARD

No deviation.

8.3TEST SETUP



8.4EUT OPERATION CONDITIONS

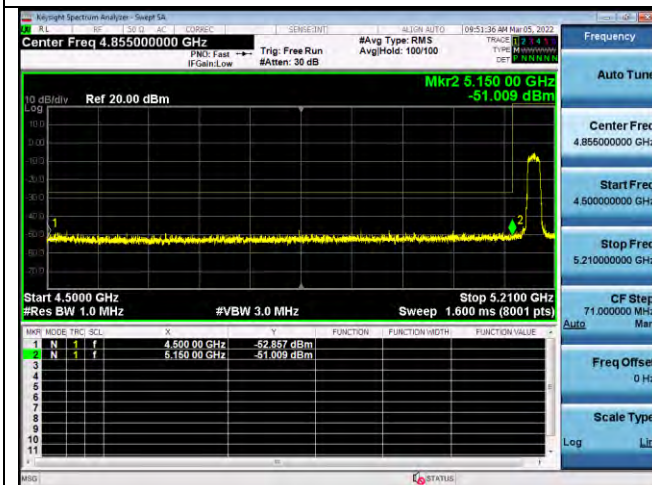
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

8.5 TEST RESULTS

Test plot as follows:

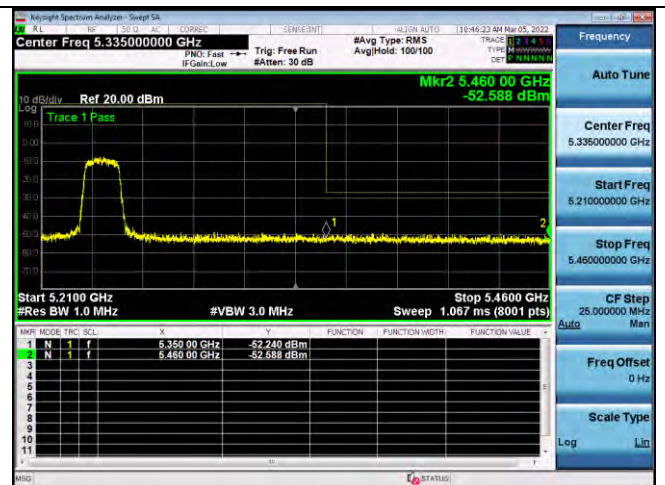
band1

Test mode:



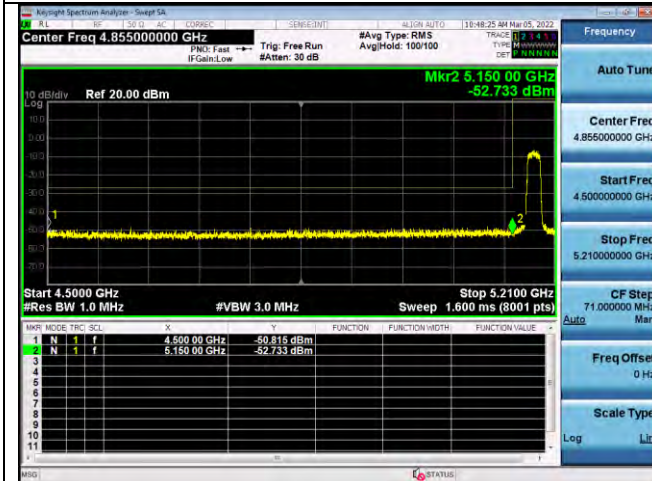
Lowest channel

802.11a



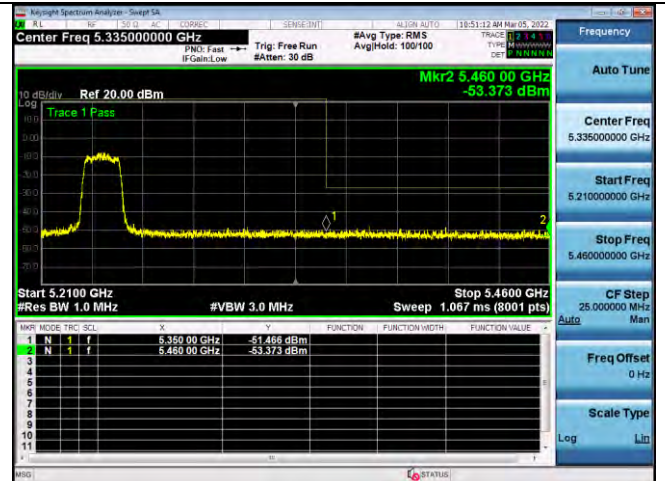
Highest channel

Test mode:



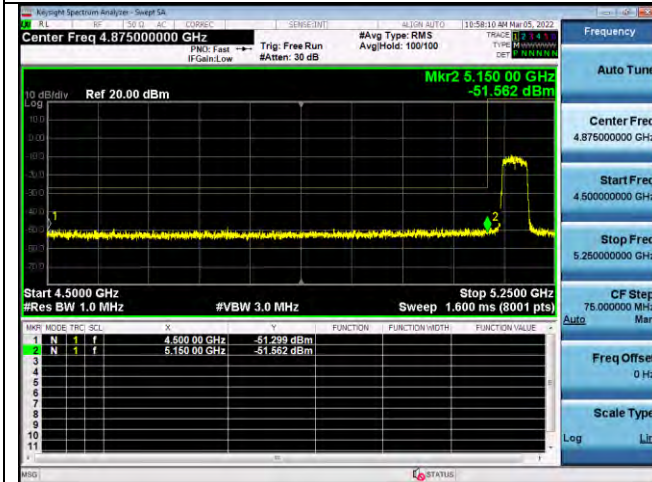
Lowest channel

802.11n20



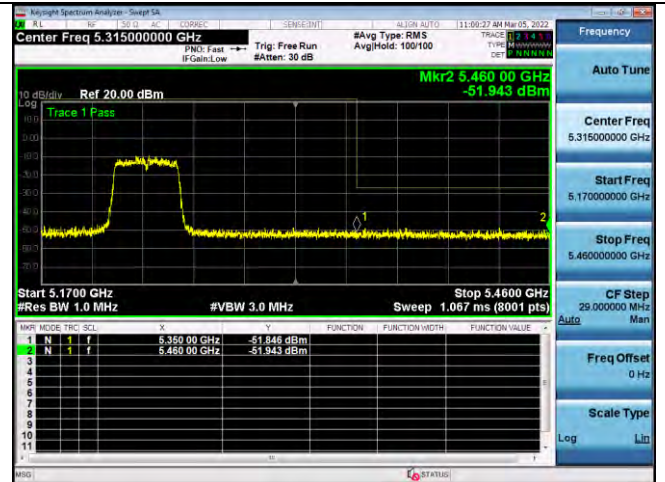
Highest channel

Test mode:



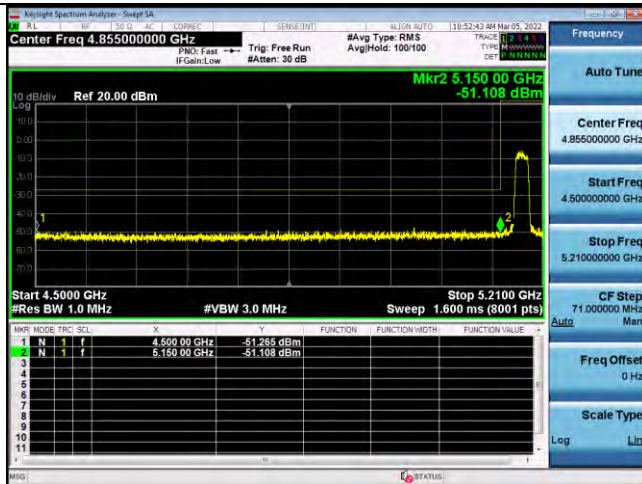
Lowest channel

802.11n40



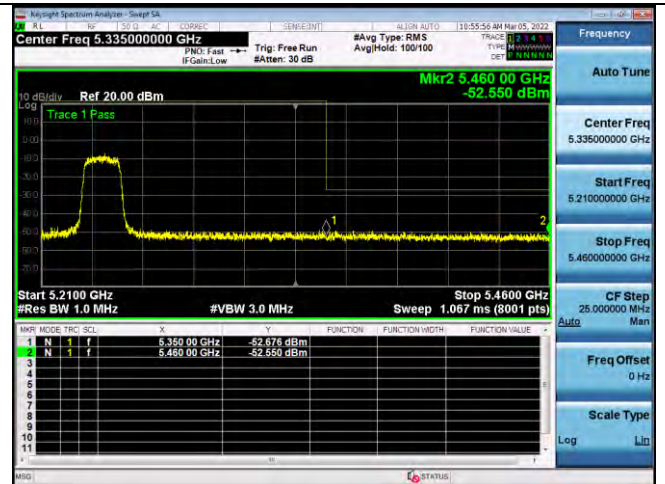
Highest channel

Test mode:



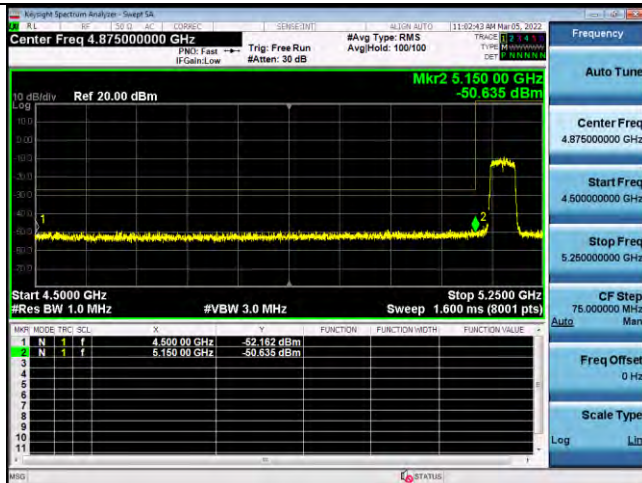
Lowest channel

802.11ac20



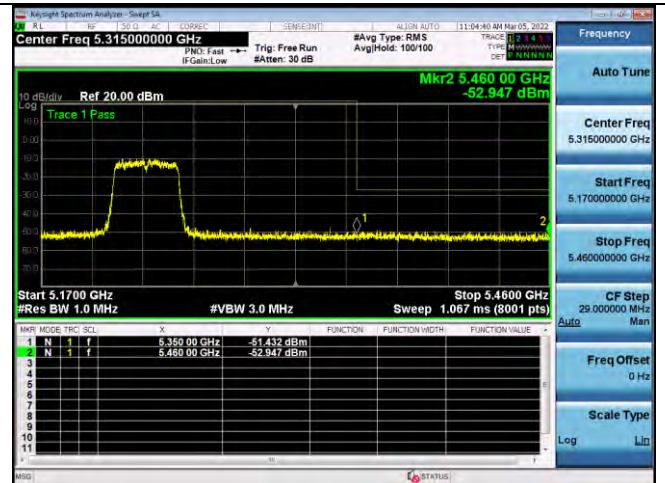
Highest channel

Test mode:



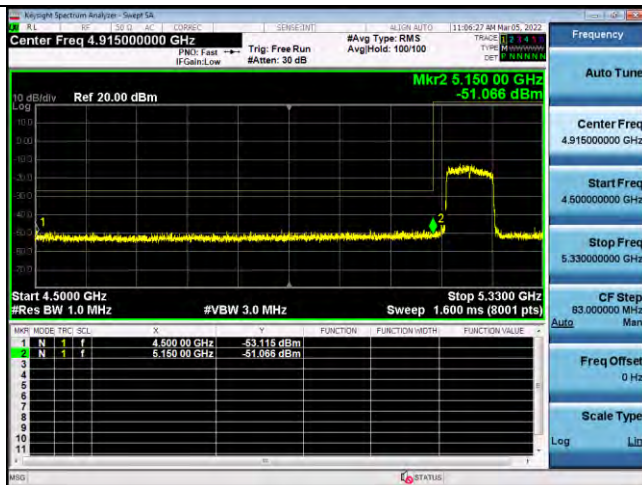
Lowest channel

802.11ac40



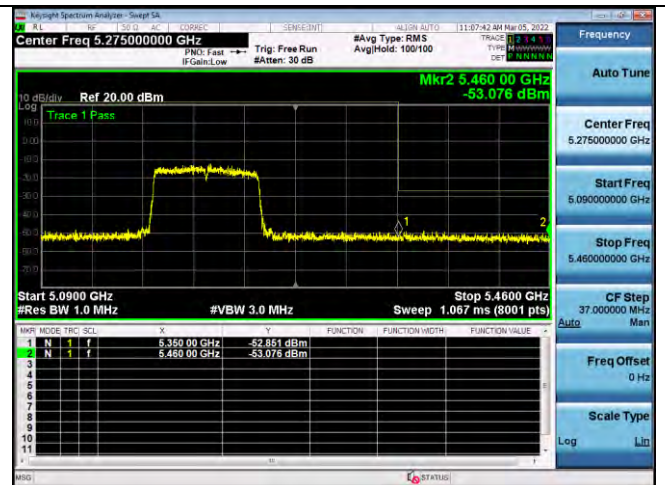
Highest channel

Test mode:



Lowest channel

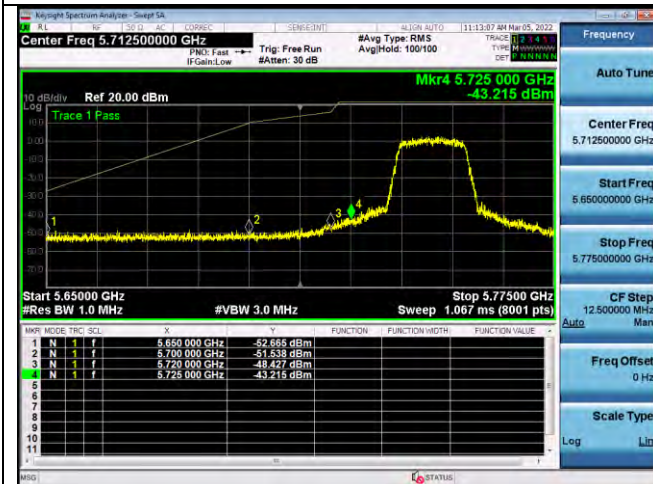
802.11ac80



Highest channel

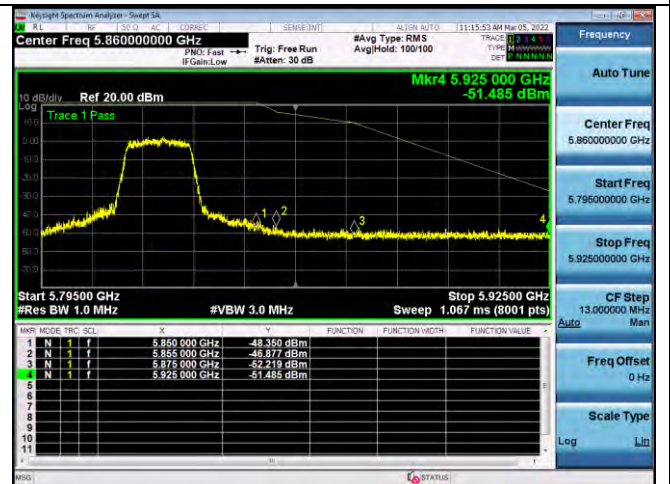
ANT1-band 4

Test mode:



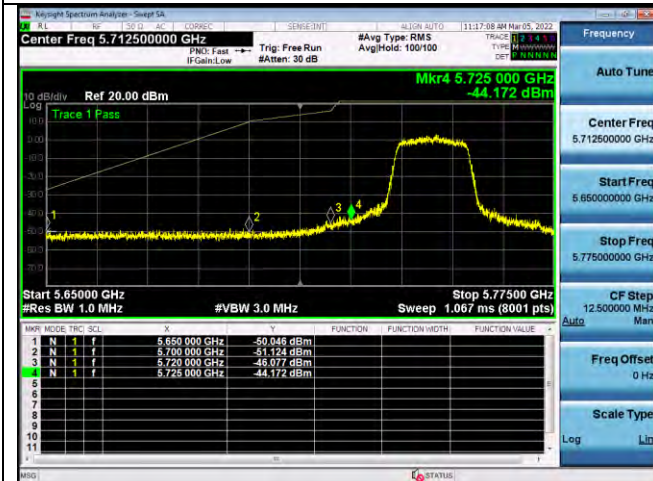
Lowest channel

802.11a



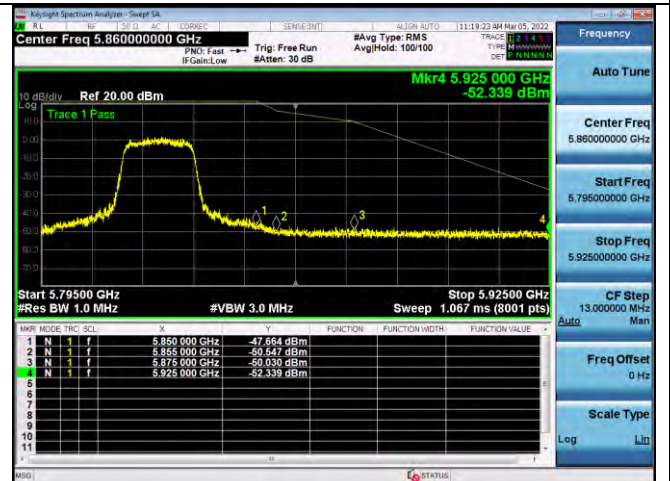
Highest channel

Test mode:



Lowest channel

802.11n20



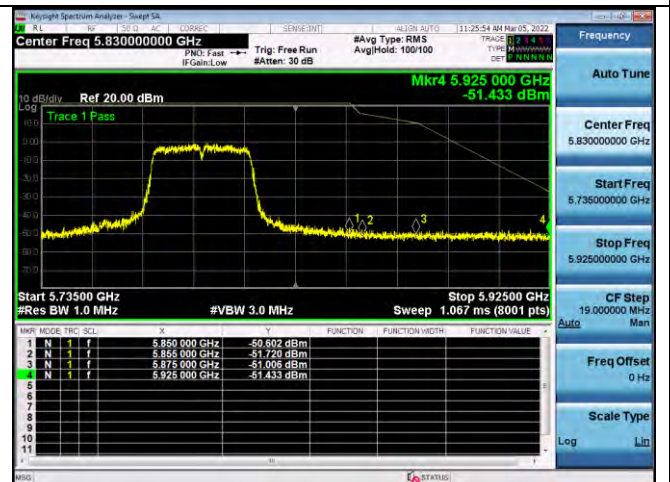
Highest channel

Test mode:

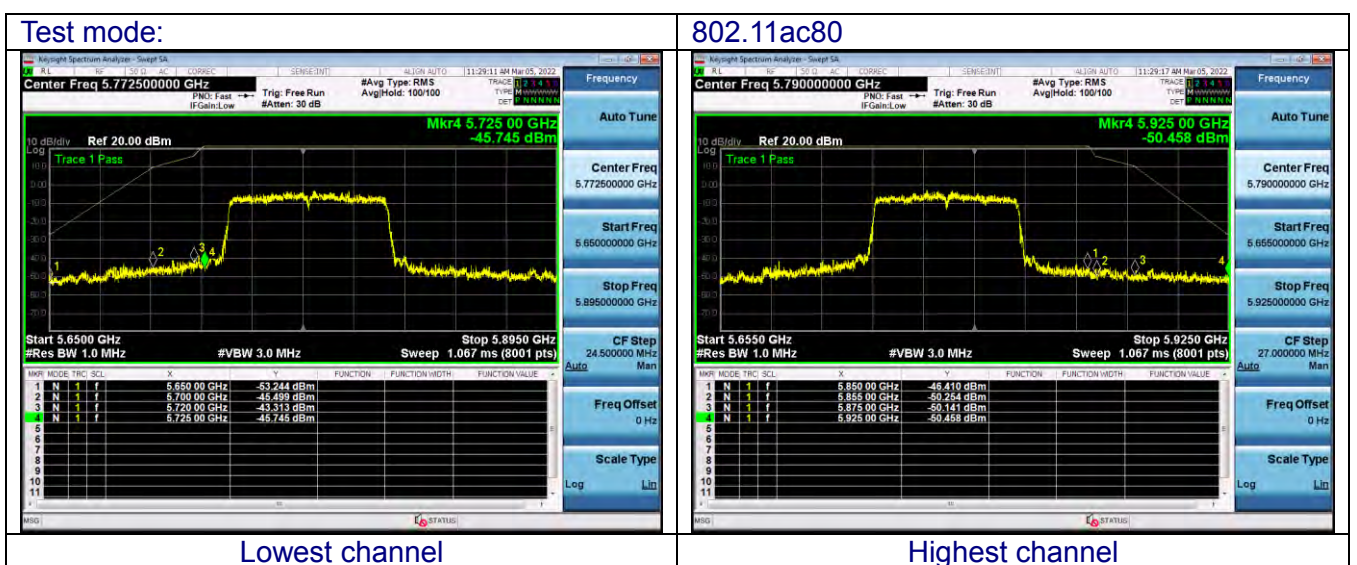
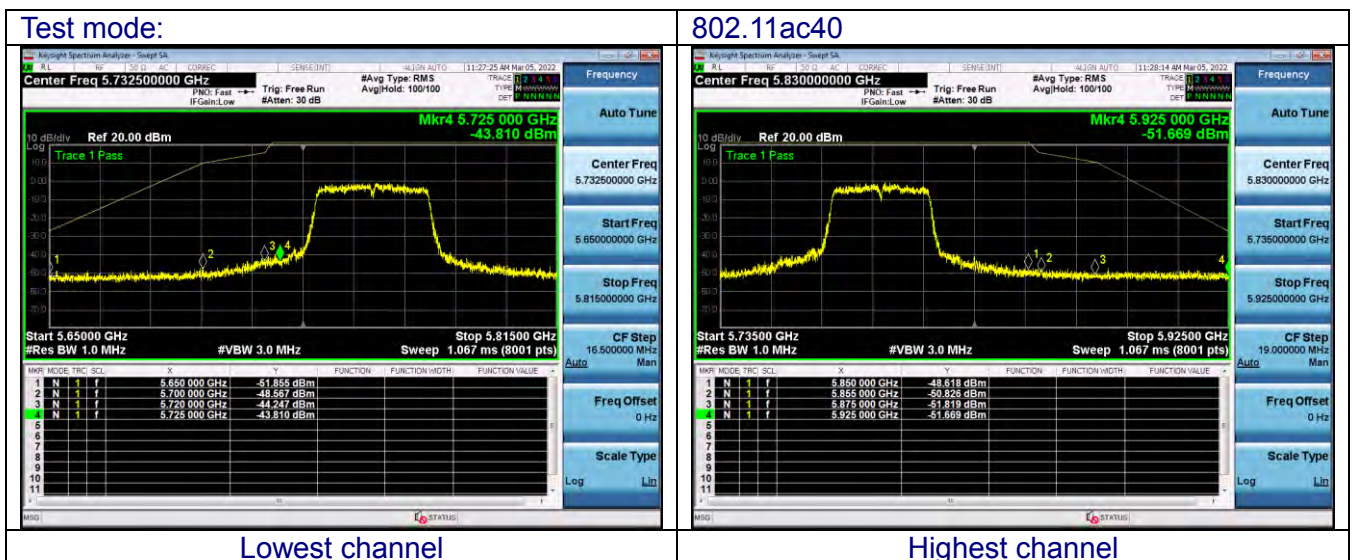
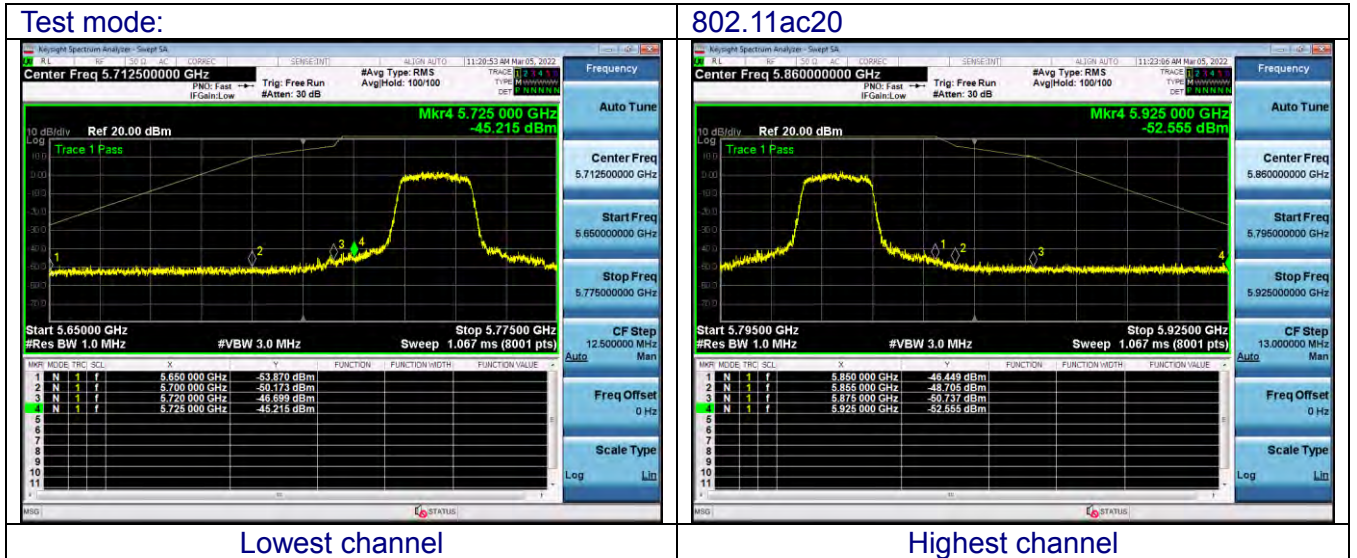


Lowest channel

802.11n40



Highest channel



9. FREQUENCY STABILITY MEASUREMENT

9.1 LIMIT

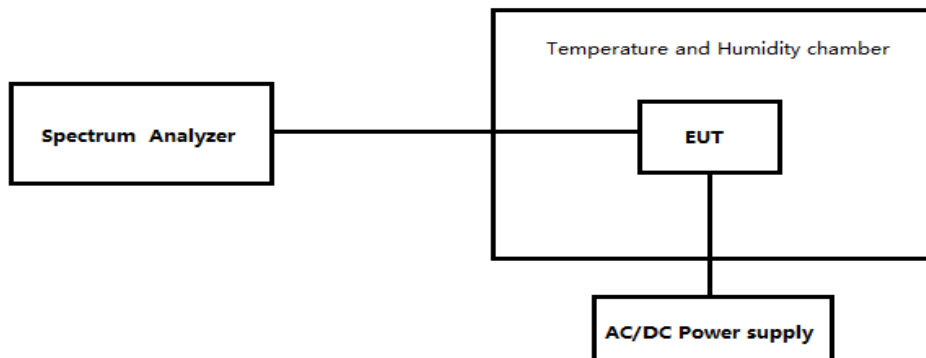
According to §15.407(g), Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of

normal operation as specified in the user's manual.

9.2 TESTPROCEDURE

1. To ensure emission at the band edge is maintained within the authorized band, those values shall be measured by radiation emissions at upper and lower frequency points, and finally compensated by frequency deviation as procedures below.
2. The EUT was operated at the maximum output power, and connected to the spectrum analyzer, which is set to maximum hold function and peak detector. The peak value of the power envelope was measured and noted. The upper and lower frequency points were respectively measured relatively 10dB lower than the measured peak value.
3. The frequency deviation was calculated by adding the upper frequency point and the lower frequency point divided by two. Those detailed values of frequency deviation are provided in table below.

9.3 TESTCONFIGURATION



9.4 TEST RESULT

Temperature :	26℃	Relative Humidity :	54%
Pressure :	101kPa	Test Voltage :	DC12V

Note: Only the test results of the worst channel are displayed

802.11a-CH36

Temperature (°C)	Voltage (DC:V)	Frequency Measure with time Elapsed	
		MCF	ppm
50	12	88	0.0171
40	12	74	0.0143
30	12	94	0.0181
20	12	92	0.0177
10	12	80	0.0155
0	12	71	0.0137
-10	12	78	0.0150
-20	12	91	0.0176
-30	12	80	0.0154

802.11a-CH48

Temperature (°C)	Voltage (DC:V)	Frequency Measure with time Elapsed	
		MCF	ppm
50	12	77	0.0148
40	12	75	0.0144
30	12	92	0.0176
20	12	78	0.0151
10	12	71	0.0137
0	12	87	0.0168
-10	12	99	0.0190
-20	12	78	0.0150
-30	12	99	0.0190

802.11a-CH149

Temperature (°C)	Voltage (DC:V)	Frequency Measure with time Elapsed	
		MCF	ppm
50	12	76	0.0132
40	12	74	0.0128
30	12	72	0.0125
20	12	92	0.0161
10	12	76	0.0132
0	12	90	0.0157
-10	12	87	0.0151
-20	12	81	0.0141
-30	12	71	0.0123

802.11a-CH165

Temperature (°C)	Voltage (DC:V)	Frequency Measure with time Elapsed	
		MCF	ppm
50	12	89	0.0153

40	12	70	0.0121
30	12	93	0.0160
20	12	89	0.0154
10	12	85	0.0146
0	12	91	0.0156
-10	12	98	0.0169
-20	12	90	0.0155
-30	12	77	0.0133

802.11n20-CH36

Temperature (°C)	Voltage (DC:V)	Frequency Measure with time Elapsed	
		MCF	ppm
50	12	81	0.0155
40	12	87	0.0168
30	12	77	0.0148
20	12	85	0.0165
10	12	71	0.0137
0	12	85	0.0163
-10	12	82	0.0159
-20	12	81	0.0157
-30	12	86	0.0166

802.11n20-CH48

Temperature (°C)	Voltage (DC:V)	Frequency Measure with time Elapsed	
		MCF	ppm
50	12	78	0.0149
40	12	76	0.0145
30	12	74	0.0141
20	12	79	0.0151
10	12	96	0.0184
0	12	82	0.0156
-10	12	91	0.0173
-20	12	76	0.0146
-30	12	70	0.0134

802.11n20-CH149

Temperature (°C)	Voltage (DC:V)	Frequency Measure with time Elapsed	
		MCF	ppm
50	12	87	0.0152
40	12	76	0.0132
30	12	97	0.0170
20	12	96	0.0168
10	12	100	0.0174
0	12	100	0.0174
-10	12	77	0.0133
-20	12	78	0.0136
-30	12	97	0.0169

802.11n20-CH165

Temperature (°C)	Voltage (DC:V)	Frequency Measure with time Elapsed	
		MCF	ppm
50	12	85	0.0146
40	12	79	0.0135
30	12	72	0.0124
20	12	86	0.0147
10	12	86	0.0147
0	12	77	0.0131
-10	12	86	0.0147
-20	12	84	0.0144
-30	12	86	0.0148

802.11n40-CH38

Temperature (°C)	Voltage (DC:V)	Frequency Measure with time Elapsed	
		MCF	ppm
50	12	74	0.0142
40	12	98	0.0188
30	12	94	0.0182
20	12	81	0.0157
10	12	84	0.0162
0	12	85	0.0164
-10	12	82	0.0159
-20	12	77	0.0149
-30	12	97	0.0188

802.11n40-CH46

Temperature (°C)	Voltage (DC:V)	Frequency Measure with time Elapsed	
		MCF	ppm
50	12	93	0.0179
40	12	83	0.0159
30	12	77	0.0149
20	12	98	0.0189
10	12	83	0.0160
0	12	98	0.0189
-10	12	97	0.0186
-20	12	91	0.0174
-30	12	93	0.0179

802.11n40-CH151

Temperature (°C)	Voltage (DC:V)	Frequency Measure with time Elapsed	
		MCF	ppm
50	12	87	0.0151
40	12	77	0.0134
30	12	90	0.0156
20	12	94	0.0163
10	12	92	0.0160
0	12	76	0.0132
-10	12	93	0.0162
-20	12	91	0.0158
-30	12	97	0.0169

802.11n40-CH159

Temperature (°C)	Voltage (DC:V)	Frequency Measure with time Elapsed	
		MCF	ppm
50	12	76	0.0131
40	12	72	0.0123
30	12	82	0.0141
20	12	81	0.0139
10	12	78	0.0134
0	12	96	0.0166
-10	12	85	0.0147
-20	12	78	0.0134
-30	12	74	0.0127

802.11ac20-CH36

Temperature (°C)	Voltage (DC:V)	Frequency Measure with time Elapsed	
		MCF	ppm
50	12	97	0.0187
40	12	83	0.0160
30	12	79	0.0152
20	12	91	0.0176
10	12	79	0.0153
0	12	82	0.0158
-10	12	88	0.0171
-20	12	76	0.0147
-30	12	97	0.0187

802.11ac20-CH48

Temperature (°C)	Voltage (DC:V)	Frequency Measure with time Elapsed	
		MCF	ppm
50	12	80	0.0153
40	12	86	0.0164
30	12	86	0.0164
20	12	91	0.0174
10	12	97	0.0186
0	12	86	0.0163
-10	12	86	0.0164
-20	12	75	0.0143
-30	12	95	0.0181

802.11ac20-CH149

Temperature (°C)	Voltage (DC:V)	Frequency Measure with time Elapsed	
		MCF	ppm
50	12	79	0.0138
40	12	90	0.0157
30	12	91	0.0159
20	12	83	0.0144
10	12	75	0.0131
0	12	76	0.0133
-10	12	82	0.0143
-20	12	72	0.0125
-30	12	82	0.0143

802.11ac20-CH165

Temperature (°C)	Voltage (DC:V)	Frequency Measure with time Elapsed	
		MCF	ppm
50	12	87	0.0152
40	12	99	0.0173
30	12	96	0.0168
20	12	97	0.0168
10	12	93	0.0162
0	12	83	0.0145
-10	12	80	0.0139
-20	12	92	0.0160
-30	12	74	0.0128

ANT1-802.11ac40-CH38

Temperature (°C)	Voltage (DC:V)	Frequency Measure with time Elapsed	
		MCF	ppm
50	12	83	0.0160
40	12	91	0.0176
30	12	96	0.0184
20	12	96	0.0186
10	12	81	0.0155
0	12	70	0.0136
-10	12	78	0.0150
-20	12	71	0.0136
-30	12	93	0.0180

ANT1-802.11ac40-CH46

Temperature (°C)	Voltage (DC:V)	Frequency Measure with time Elapsed	
		MCF	ppm
50	12	76	0.0145
40	12	92	0.0176
30	12	86	0.0164
20	12	70	0.0135
10	12	94	0.0180
0	12	84	0.0161
-10	12	74	0.0141
-20	12	88	0.0168
-30	12	83	0.0158

ANT1-802.11ac40-CH151

Temperature (°C)	Voltage (DC:V)	Frequency Measure with time Elapsed	
		MCF	ppm
50	12	97	0.0169
40	12	76	0.0132
30	12	89	0.0154
20	12	72	0.0125
10	12	78	0.0136
0	12	99	0.0171
-10	12	74	0.0128
-20	12	95	0.0165
-30	12	87	0.0151

ANT1-802.11ac40-CH159

Temperature (°C)	Voltage (DC:V)	Frequency Measure with time Elapsed	
		MCF	ppm
50	12	80	0.0138
40	12	78	0.0135
30	12	87	0.0150
20	12	92	0.0159
10	12	92	0.0160
0	12	78	0.0134
-10	12	70	0.0121
-20	12	96	0.0165
-30	12	76	0.0131

10.ANTENNA REQUIREMENT

Standard requirement:	FCC Part15 C Section 15.203 /247(c)
For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247, if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi. Refer to statement below for compliance. The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed. Antenna Connected Construction The antenna used in this product is a external antenna, and the best case gain of the antenna is antenna port 1:3dBi EUT Antenna: 5Gwifi ANT 	

10. TEST SETUP PHOTO



11. EUT CONSTRUCTIONAL DETAILS

Please refer to external photos file and internal photos file

***** END OF REPORT *****