

Puw test Plot



HCH SPURIOUS EN	MISSION_10GHz-	-26GHz			
Spectrum Analyzer 1	·			Frequency	、
KEYSIGHT Input: RF R L Imput: RF Align: Auto	Input Z: 50 Ω #Atten: 20 dl Corrections: Off Preamp: Off Freq Ref: Int (S)	B PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Power (RMS 1 2 3 4 5 6 Avg Hold: 2/100 Trig: Free Run P P P P P P	Center Frequency 18.00000000 GHz	Settings
1 Spectrum v Scale/Div 10 dB Log	Ref LvI Offse Ref Level 19	et 9.01 dB .01 dBm	Mkr1 25.131 7 GHz -55.45 dBm	Span 16.0000000 GHz Swept Span Zero Span	
9.01				Full Span	
-11.0				10.00000000 GHz Stop Freq	
-31.0			DL1 -30.18 dBm	26.00000000 GHz AUTO TUNE	
-41.0			1	CF Step 1.600000000 GHz	
-61.0 contailer bit and contained and and contained and co	Distriction and a second second Second second	al de altra del color del anche del del anche Ante de programme del ante del anche del a Ante del anche del anc	l by a fashing one and the second probability of the basis of the basis of the second s	Man Freq Offset 0 Hz	
Start 10.000 GHz #Res BW 100 kHz	#Vidêo BW	300 kHz	Stop 26.000 GHz Sweep 1.53 s (30000 pts)	X Axis Scale Log Lin	
1 702?	Apr 17, 2021 4:27:33 PM			Signal Track (Span Zoom)	



7.6. RADIATED TEST RESULTS

7.6.1.LIMITS AND PROCEDURE

LIMITS

Please refer to FCC §15.205 and §15.209, ISED RSS-247 Clause 5.5, ISED RSS-GEN Clause 8.9&6.13 (Transmitter)

Radiation Disturbance Test Limit for ISED(9KHz-1GHz)

Except where otherwise indicated in the applicable RSS, radiated emissions shall comply with the field strength limits shown in table 5 and table 6. Additionally, the level of any transmitter unwanted emission shall not exceed the level of the transmitter's fundamental emission.

Table 5 – General field strength limits at frequencies above 30 MHz			
Frequency (MHz) Field strength (μ V/m at 3 m)			
30 - 88	100		
88 - 216	150		
216 - 960	200		
Above 960	500		

Table 6 – General field strength limits at frequencies below 30 MHz				
Frequency	Measurement distance (m)			
9 - 490 kHz ^{Note 1}	6.37/F (F in kHz)	300		
490 - 1705 kHz	63.7/F (F in kHz)	30		
1.705 - 30 MHz	0.08	30		

Note 1: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

Please refer to FCC KDB 558074 Radiation Disturbance Test Limit for FCC (Class B)(9KHz-1GHz)

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
960~1000	500	3

Note: 1) At frequencies at or above 30 MHz, measurements may be performed at a distance other than what is specified provided: measurements are not made in the near field except where it can be shown that near field measurements are appropriate due to the characteristics of the device; and it can be demonstrated that the signal levels needed to be measured at the distance employed can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 meters unless it can be further demonstrated that measurements at a distance of 30 meters or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse linear-distance for field strength measurements; inverse-linear-distance-squared for power density measurements).

(2) At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed below 30 MHz, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). This paragraph (f) shall not apply to Access BPL devices operating below 30 MHz.



Radiation Disturbance Test Limit for FCC (Above 1G)

	dB(uV/m) (at 3 meters)		
Frequency (MHZ)	Peak	Average	
Above 1000	74	54	

Restricted bands of operation

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

Note: ¹Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz. ²Above 38.6c

TEST SETUP AND PROCEDURE

Below 30MHz



The setting of the spectrum analyser

RBW	200Hz (From 9kHz to 0.15MHz)/ 9KHz (From 0.15MHz to 30MHz)
VBW	200Hz (From 9kHz to 0.15MHz)/ 9KHz (From 0.15MHz to 30MHz)
Sweep	Auto
Detector	Peak/QP/ Average
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013

2. The EUT was arranged to its worst case and then turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both Horizontal, Face-on and Face-off polarizations of the antenna are set to make the measurement.

3. The EUT was placed on a turntable with 0.8 meter above ground.

4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a 1m height antenna tower.

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

6. For measurement below 1GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

7. For the actual test configuration, please refer to the related item in this test report (Photographs of the Test Configuration)





The setting of the spectrum analyser

RBW	120K
VBW	300K
Sweep	Auto
Detector	Peak/QP
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013.

2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

3. The EUT was placed on a turntable with 0.8 meter above ground.

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

5. For measurement below 1GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

6. For the actual test configuration, please refer to the related Item in this test report (Photographs of the Test Configuration)







The setting of the spectrum analyser

RBW	1M
VBW	PEAK:3M AVG: See note6
Sweep	Auto
Detector	Peak/Average(10Hz)
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013.

2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

3. The EUT was placed on a turntable with 1.5m above ground.

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

5. For measurement above 1GHz, the emission measurement will be measured by the peak detector. This peak level, once corrected, must comply with the limit specified in Section 15.209.

6. For measurements above 1 GHz, the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements; and 1 MHz resolution bandwidth with video bandwidth \geq 1/T but not less than the setting list in section 7.1 when use peak detector, max hold to be run for at least [50*(1/Duty Cycle)] traces for average measurements. For the Duty Cycle need to refer the results in section 7.1.

7. For the actual test configuration, please refer to the related item in this test report (Photographs of the Test Configuration)



X axis, Y axis, Z axis positions:



Note: For all radiated test, EUT in each of three orthogonal axis emissions had been tested, but only the worst case (Z axis) data recorded in the report.

7.6.2. TEST ENVIRONMENT

Temperature	22°C	Relative Humidity	56%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.7V

7.6.3. RESTRICTED BANDEDGE

Test Result Table

Test Mode	Channel	Puw(dBm)	Verdict
	LCH	<limit< td=""><td>PASS</td></limit<>	PASS
11B	НСН	<limit< td=""><td>PASS</td></limit<>	PASS
_	LCH	<limit< td=""><td>PASS</td></limit<>	PASS
11G	НСН	<limit< td=""><td>PASS</td></limit<>	PASS
	LCH	<limit< td=""><td>PASS</td></limit<>	PASS
11N HT20	НСН	<limit< td=""><td>PASS</td></limit<>	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	2200 1475	43.63	13.06	56.69	74.00	-17.31	peak
I	2300.1475	29.33	13.06	42.39	54.00	-11.61	average
2	2200 0000	41.76	13.07	54.83	74.00	-19.17	peak
2 2390.0000	29.46	13.07	42.53	54.00	-11.47	average	

Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV lim	nit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.	

- 3. Measurement = Reading Level + Correct Factor.
- 4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	2259 0010	44.00	12.76	56.76	74.00	-17.24	peak
I	2356.0010	29.62	12.76	42.38	54.00	-11.62	average
2	2200 0000	41.74	13.07	54.81	74.00	-19.19	peak
2	2390.0000	29.35	13.07	42.42	54.00	-11.58	average

- Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 - 2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
 - 3. Measurement = Reading Level + Correct Factor.
 - 4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

(UL)		REP	ORT No.: 4789884561-1 Page 73 of 131
Test Mode	Channel	Polarization	Verdict
11B	HCH	Horizontal	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	2492 5000	41.65	12.97	54.62	74.00	-19.38	peak
	2403.3000	30.26	12.97	43.23	54.00	-10.77	average
2	2550 1240	42.68	13.41	56.09	74.00	-17.91	peak
2	2009.1049	30.30	13.41	43.71	54.00	-10.29	average

- Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit. 2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
 - 3. Measurement = Reading Level + Correct Factor.
 - 4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	2492 5000	40.87	12.97	53.84	74.00	-20.16	peak
	2465.5000	30.52	12.97	43.49	54.00	-10.51	average
2		42.19	13.42	55.61	74.00	-18.39	peak
2	2000.0190	29.83	13.42	43.25	54.00	-10.75	average

- Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit. 2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
 - 3. Measurement = Reading Level + Correct Factor.
 - 4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	2266 0006	43.01	12.88	55.89	74.00	-18.11	peak
I	2300.0090	29.68	12.88	42.56	54.00	-11.44	average
2	2200 0000	46.00	13.07	59.07	74.00	-14.93	peak
2	2390.0000	31.62	13.07	44.69	54.00	-9.31	average

- Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit. 2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
 - 3. Measurement = Reading Level + Correct Factor.
 - 4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1 0202 4466	45.37	13.06	58.43	74.00	-15.57	peak
I	2302.4100	30.06	13.06	43.12	54.00	-10.88	average
2	2 2390.0000	42.60	13.07	55.67	74.00	-18.33	peak
2		31.28	13.07	44.35	54.00	-9.65	average

- Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit. 2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
 - 3. Measurement = Reading Level + Correct Factor.
 - 4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
4	4 0400 5000	42.56	12.97	55.53	74.00	-18.47	peak
I	2463.5000	31.20	12.97	44.17	54.00	-9.83	average
2	0 0400 0074	42.76	13.13	55.89	74.00	-18.11	peak
2	2499.0974	30.39	13.13	43.52	54.00	-10.48	average

- Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit. 2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
 - 3. Measurement = Reading Level + Correct Factor.
 - 4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
4	2483 5000	43.21	12.97	56.18	74.00	-17.82	peak
I	2483.5000	30.88	12.97	43.85	54.00	-10.15	average
2	2 2491.1089	42.86	13.01	55.87	74.00	-18.13	peak
2		30.53	13.01	43.54	54.00	-10.46	average

- Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit. 2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
 - 3. Measurement = Reading Level + Correct Factor.
 - 4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



Test Mode	Channel	Polarization	Verdict
11N HT20	LCH	Horizontal	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
4	2272 5716	42.48	12.96	55.44	74.00	-18.56	peak
	1 23/2.5/10	30.15	12.96	43.11	54.00	-10.89	average
2	2200 0000	46.55	13.07	59.62	74.00	-14.38	peak
2	2390.0000	32.19	13.07	45.26	54.00	-8.74	average

Note:	1.	If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
	2.	Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

- 3. Measurement = Reading Level + Correct Factor.
- 4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	2202 7667	44.19	13.06	57.25	74.00	16.75	peak
1 2303.7007	29.86	13.06	42.92	54.00	11.08	average	
2	2 2200 0000	43.61	13.07	56.68	74.00	17.32	peak
2 2390.0	2390.0000	31.24	13.07	44.31	54.00	9.69	average

- Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit. 2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
 - 3. Measurement = Reading Level + Correct Factor.
 - 4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

(UL)		REPO	ORT No.: 4789884561-1 Page 81 of 131
Test Mode	Channel	Polarization	Verdict
11N HT20	HCH	Horizontal	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1 2492 5000	43.59	12.97	56.56	74.00	-17.44	peak
1 2403.3000	32.29	12.97	45.26	54.00	-8.74	average	
2 2516.3120	43.36	13.21	56.57	74.00	-17.43	peak	
	2510.3120	30.03	13.21	43.24	54.00	-10.76	averade

Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit. 2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

3. Measurement = Reading Level + Correct Factor.



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1 0070 5716	42.48	12.96	55.44	74.00	-18.56	peak
1 23	2372.5710	30.15	12.96	43.11	54.00	-10.89	average
2 2390.0000	46.55	13.07	59.62	74.00	-14.38	peak	
	2390.0000	32.19	13.07	45.26	54.00	-8.74	average

- Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit. 2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
 - 3. Measurement = Reading Level + Correct Factor.
 - 4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

7.6.4. SPURIOUS EMISSIONS

Test Result Table:

1) F	or	1	Gł	١Z	-3	GI	Η	Z

Test Mode	Channel	Puw(dBm)	Verdict
	LCH	<limit< td=""><td>PASS</td></limit<>	PASS
11B SISO	MCH	<limit< td=""><td>PASS</td></limit<>	PASS
	НСН	<limit< td=""><td>PASS</td></limit<>	PASS
	LCH	<limit< td=""><td>PASS</td></limit<>	PASS
11G SISO	MCH	<limit< td=""><td>PASS</td></limit<>	PASS
	HCH	<limit< td=""><td>PASS</td></limit<>	PASS
	LCH	<limit< td=""><td>PASS</td></limit<>	PASS
11N HT20	MCH	<limit< td=""><td>PASS</td></limit<>	PASS
	НСН	<limit< td=""><td>PASS</td></limit<>	PASS

2) For 3GHz~18GHz

Test Mode	Channel	Puw(dBm)	Verdict
	LCH	<limit< td=""><td>PASS</td></limit<>	PASS
11B SISO	MCH	<limit< td=""><td>PASS</td></limit<>	PASS
	HCH	<limit< td=""><td>PASS</td></limit<>	PASS
	LCH	<limit< td=""><td>PASS</td></limit<>	PASS
11G SISO	MCH	<limit< td=""><td>PASS</td></limit<>	PASS
	HCH	<limit< td=""><td>PASS</td></limit<>	PASS
	LCH	<limit< td=""><td>PASS</td></limit<>	PASS
11N HT20	MCH	<limit< td=""><td>PASS</td></limit<>	PASS
	НСН	<limit< td=""><td>PASS</td></limit<>	PASS



3) For 18GHz~26.5GHz

Test Mode	Channel	Puw(dBm)	Verdict
11B	MCH	<limit< td=""><td>PASS</td></limit<>	PASS

Remark:

1) Through pre-testing all the test modes and test channels, but only the data of the worst case is included in this test report.

4) For 30MHz~1GHz

Test Mode	Channel	Puw(dBm)	Verdict
11B	MCH	<limit< td=""><td>PASS</td></limit<>	PASS

Remark:

1) Through pre-testing all the test modes and test channels, but only the data of the worst case is included in this test report.

5) For 9KHz~30MHz

Test Mode	Channel	Puw(dBm)	Verdict
11B	MCH	<limit< th=""><th>PASS</th></limit<>	PASS

Remark:

1) Through pre-testing all the test modes and test channels, but only the data of the worst case is included in this test report.



Part I: 1GHz~3GHz



|--|

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1194.5243	43.48	-5.57	37.91	74.00	-36.09	peak
2	1557.5697	41.86	-5.52	36.34	74.00	-37.66	peak
3	1792.5991	47.35	-3.76	43.59	74.00	-30.41	peak
4	1909.1136	43.67	-3.31	40.36	74.00	-33.64	peak
5	2107.3884	43.10	-2.54	40.56	74.00	-33.44	peak
6	2734.9669	41.58	-0.48	41.10	74.00	-32.90	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
- 4. Peak: Peak detector.
- 5. AVG: VBW refer to section 7.1.
- 6. For below 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses. The proper operation of the transmitter prior to adding the filter to the measurement chain.
- 7. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.





No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1109.7637	44.29	-5.50	38.79	74.00	-35.21	peak
2	1196.7746	46.19	-5.56	40.63	74.00	-33.37	peak
3	1413.5517	44.47	-5.52	38.95	74.00	-35.05	peak
4	1797.5997	48.83	-3.82	45.01	74.00	-28.99	peak
5	2292.1615	52.46	-1.92	50.54	74.00	-23.46	peak
6	2751.7190	43.53	-0.41	43.12	74.00	-30.88	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
- 4. Peak: Peak detector.
- 5. AVG: VBW refer to section 7.1.
- 6. For below 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses The proper operation of the transmitter prior to adding the filter to the measurement chain.
- 7. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

(UL)		REPO	ORT No.: 4789884561-1 Page 87 of 131
Test Mode	Channel	Polarization	Verdict
11B	MCH	Horizontal	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1029.7537	41.02	-4.94	36.08	74.00	-37.92	peak
2	1194.0243	42.54	-5.57	36.97	74.00	-37.03	peak
3	1397.7997	43.20	-5.68	37.52	74.00	-36.48	peak
4	1795.3494	46.17	-3.79	42.38	74.00	-31.62	peak
5	2325.9157	44.23	-1.76	42.47	74.00	-31.53	peak
6	2666.4583	41.69	-0.71	40.98	74.00	-33.02	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
- 4. Peak: Peak detector.
- 5. AVG: VBW refer to section 7.1.
- 6. For below 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses The proper operation of the transmitter prior to adding the filter to the measurement chain.
- 7. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

(UL)		REPO	ORT No.: 4789884561-1 Page 88 of 131
Test Mode	Channel	Polarization	Verdict
11B	MCH	Vertical	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1198.0248	44.89	-5.56	39.33	74.00	-34.67	peak
2	1395.5494	43.59	-5.71	37.88	74.00	-36.12	peak
3	1798.8499	50.12	-3.83	46.29	74.00	-27.71	peak
4	1965.3707	44.63	-3.14	41.49	74.00	-32.51	peak
5	2258.4073	50.85	-2.11	48.74	74.00	-25.26	peak
6	2770.9714	42.78	-0.21	42.57	74.00	-31.43	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
- 4. Peak: Peak detector.
- 5. AVG: VBW refer to section 7.1.
- 6. For below 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses The proper operation of the transmitter prior to adding the filter to the measurement chain.
- 7. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1193.7742	43.60	-5.57	38.03	74.00	-35.97	peak
2	1496.5621	42.26	-5.94	36.32	74.00	-37.68	peak
3	1796.8496	45.55	-3.81	41.74	74.00	-32.26	peak
4	2059.1324	44.65	-2.61	42.04	74.00	-31.96	peak
5	2349.1686	45.25	-1.69	43.56	74.00	-30.44	peak
6	2582.1978	44.61	-0.93	43.68	74.00	-30.32	peak

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

- 4. Peak: Peak detector.
- 5. AVG: VBW refer to section 7.1.
- 6. For below 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses The proper operation of the transmitter prior to adding the filter to the measurement chain.
- 7. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

(UL)		REPO	DRT No.: 4789884561-1 Page 90 of 131
Test Mode	Channel	Polarization	Verdict
11B	HCH	Vertical	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1197.0246	43.30	-5.56	37.74	74.00	-36.26	peak
2	1395.0494	42.72	-5.72	37.00	74.00	-37.00	peak
3	1792.0990	48.42	-3.76	44.66	74.00	-29.34	peak
4	2079.3849	44.48	-2.72	41.76	74.00	-32.24	peak
5	2298.4123	50.39	-1.87	48.52	74.00	-25.48	peak
6	2597.6997	44.82	-0.73	44.09	74.00	-29.91	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
- 4. Peak: Peak detector.
- 5. AVG: VBW refer to section 7.1.
- 6. For below 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses The proper operation of the transmitter prior to adding the filter to the measurement chain.
- 7. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



Test Mode	Channel	Polarization	Verdict
11G	LCH	Horizontal	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1107.7635	42.79	-5.52	37.27	74.00	-36.73	peak
2	1197.5247	42.87	-5.56	37.31	74.00	-36.69	peak
3	1399.2999	44.50	-5.66	38.84	74.00	-35.16	peak
4	1798.0998	44.22	-3.83	40.39	74.00	-33.61	peak
5	2069.3837	44.65	-2.81	41.84	74.00	-32.16	peak
6	2776.7221	41.77	-0.26	41.51	74.00	-32.49	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
- 4. Peak: Peak detector.
- 5. AVG: VBW refer to section 7.1.
- 6. For below 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses The proper operation of the transmitter prior to adding the filter to the measurement chain.
- 7. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



Test Mode	Channel	Polarization	Verdict
11G	LCH	Vertical	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1195.7745	44.47	-5.56	38.91	74.00	-35.09	peak
2	1416.5521	44.39	-5.65	38.74	74.00	-35.26	peak
3	1793.5992	45.06	-3.78	41.28	74.00	-32.72	peak
4	2032.6291	45.95	-2.64	43.31	74.00	-30.69	peak
5	2279.6600	51.70	-1.95	49.75	74.00	-24.25	peak
6	2575.6970	44.69	-0.90	43.79	74.00	-30.21	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
- 4. Peak: Peak detector.
- 5. AVG: VBW refer to section 7.1.
- 6. For below 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses The proper operation of the transmitter prior to adding the filter to the measurement chain.
- 7. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

(UL)		REP	ORT No.: 4789884561-1 Page 93 of 131
Test Mode	Channel	Polarization	Verdict
11G	MCH	Horizontal	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1199.2749	42.52	-5.56	36.96	74.00	-37.04	peak
2	1394.7994	43.61	-5.72	37.89	74.00	-36.11	peak
3	1554.8194	42.45	-5.48	36.97	74.00	-37.03	peak
4	1796.8496	46.07	-3.81	42.26	74.00	-31.74	peak
5	2051.6315	43.26	-2.42	40.84	74.00	-33.16	peak
6	2517.1896	45.53	-0.34	45.19	74.00	-28.81	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
- 4. Peak: Peak detector.
- 5. AVG: VBW refer to section 7.1.
- 6. For below 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses The proper operation of the transmitter prior to adding the filter to the measurement chain.
- 7. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

(UL)		REPO	ORT No.: 4789884561-1 Page 94 of 131
Test Mode	Channel	Polarization	Verdict
11G	MCH	Vertical	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1119.5149	48.42	-5.48	42.94	74.00	-31.06	peak
2	1198.0248	46.29	-5.56	40.73	74.00	-33.27	peak
3	1507.8135	44.51	-5.74	38.77	74.00	-35.23	peak
4	1798.8499	45.23	-3.83	41.40	74.00	-32.60	peak
5	2297.4122	50.08	-1.88	48.20	74.00	-25.80	peak
6	2603.7005	44.95	-0.57	44.38	74.00	-29.62	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
- 4. Peak: Peak detector.
- 5. AVG: VBW refer to section 7.1.
- 6. For below 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses The proper operation of the transmitter prior to adding the filter to the measurement chain.
- 7. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

(UL)		REPO	ORT No.: 4789884561-1 Page 95 of 131
Test Mode	Channel	Polarization	Verdict
11G	HCH	Horizontal	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1195.7745	42.52	-5.56	36.96	74.00	-37.04	peak
2	1393.7992	43.41	-5.73	37.68	74.00	-36.32	peak
3	1797.3497	45.74	-3.82	41.92	74.00	-32.08	peak
4	1992.3740	43.23	-3.07	40.16	74.00	-33.84	peak
5	2336.4171	43.85	-1.82	42.03	74.00	-31.97	peak
6	2519.1899	44.54	-0.33	44.21	74.00	-29.79	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
- 4. Peak: Peak detector.
- 5. AVG: VBW refer to section 7.1.
- 6. For below 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses The proper operation of the transmitter prior to adding the filter to the measurement chain.
- 7. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

(UL)		REPO	ORT No.: 4789884561-1 Page 96 of 131
Test Mode	Channel	Polarization	Verdict
11G	HCH	Vertical	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1197.0246	45.24	-5.56	39.68	74.00	-34.32	peak
2	1393.5492	43.11	-5.74	37.37	74.00	-36.63	peak
3	1595.3244	43.56	-5.07	38.49	74.00	-35.51	peak
4	1792.0990	45.23	-3.76	41.47	74.00	-32.53	peak
5	2274.9094	50.18	-2.02	48.16	74.00	-25.84	peak
6	2570.9464	46.84	-0.80	46.04	74.00	-27.96	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
- 4. Peak: Peak detector.
- 5. AVG: VBW refer to section 7.1.
- 6. For below 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses The proper operation of the transmitter prior to adding the filter to the measurement chain.
- 7. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

(UL)		REPO	ORT No.: 4789884561-1 Page 97 of 131
Test Mode	Channel	Polarization	Verdict
11N HT20	LCH	Horizontal	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1198.0248	45.16	-5.56	39.60	74.00	-34.40	peak
2	1395.2994	42.17	-5.71	36.46	74.00	-37.54	peak
3	1795.3494	49.50	-3.79	45.71	74.00	-28.29	peak
4	2041.1301	43.61	-2.39	41.22	74.00	-32.78	peak
5	2160.6451	43.99	-2.52	41.47	74.00	-32.53	peak
6	2511.6890	45.67	-0.38	45.29	74.00	-28.71	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
- 4. Peak: Peak detector.
- 5. AVG: VBW refer to section 7.1.
- 6. For below 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses The proper operation of the transmitter prior to adding the filter to the measurement chain.
- 7. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

(UL)		REPO	ORT No.: 4789884561-1 Page 98 of 131
Test Mode	Channel	Polarization	Verdict
11N HT20	LCH	Vertical	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1076.0095	45.14	-5.37	39.77	74.00	-34.23	peak
2	1278.2848	43.58	-5.59	37.99	74.00	-36.01	peak
3	1466.0583	44.23	-5.86	38.37	74.00	-35.63	peak
4	1792.5991	47.01	-3.76	43.25	74.00	-30.75	peak
5	2277.4097	50.42	-1.98	48.44	74.00	-25.56	peak
6	2545.9432	46.73	-0.97	45.76	74.00	-28.24	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
- 4. Peak: Peak detector.
- 5. AVG: VBW refer to section 7.1.
- 6. For below 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses The proper operation of the transmitter prior to adding the filter to the measurement chain.
- 7. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

(UL)		REPO	ORT No.: 4789884561-1 Page 99 of 131
Test Mode	Channel	Polarization	Verdict
11N HT20	MCH	Horizontal	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1198.2748	43.24	-5.56	37.68	74.00	-36.32	peak
2	1397.0496	45.46	-5.69	39.77	74.00	-34.23	peak
3	1796.0995	45.28	-3.80	41.48	74.00	-32.52	peak
4	1894.8619	44.29	-3.43	40.86	74.00	-33.14	peak
5	2265.1581	44.81	-2.11	42.70	74.00	-31.30	peak
6	2641.2052	42.63	-0.82	41.81	74.00	-32.19	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
- 4. Peak: Peak detector.
- 5. AVG: VBW refer to section 7.1.
- 6. For below 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses The proper operation of the transmitter prior to adding the filter to the measurement chain.
- 7. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

(UL)		REP	ORT No.: 4789884561-1 Page 100 of 131
Test Mode	Channel	Polarization	Verdict
11N HT20	MCH	Vertical	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1192.5241	44.97	-5.57	39.40	74.00	-34.60	peak
2	1419.8025	44.70	-5.79	38.91	74.00	-35.09	peak
3	1799.8500	45.96	-3.84	42.12	74.00	-31.88	peak
4	2107.1384	44.49	-2.54	41.95	74.00	-32.05	peak
5	2290.6613	51.57	-1.93	49.64	74.00	-24.36	peak
6	2571.6965	45.83	-0.82	45.01	74.00	-28.99	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
- 4. Peak: Peak detector.
- 5. AVG: VBW refer to section 7.1.
- 6. For below 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses The proper operation of the transmitter prior to adding the filter to the measurement chain.
- 7. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1196.0245	45.02	-5.56	39.46	74.00	-34.54	peak
2	1398.7999	44.04	-5.67	38.37	74.00	-35.63	peak
3	1631.0789	42.83	-5.07	37.76	74.00	-36.24	peak
4	1793.5992	44.82	-3.78	41.04	74.00	-32.96	peak
5	2239.1549	44.18	-2.27	41.91	74.00	-32.09	peak
6	2602.4503	42.22	-0.62	41.60	74.00	-32.40	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
- 4. Peak: Peak detector.
- 5. AVG: VBW refer to section 7.1.
- 6. For below 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses The proper operation of the transmitter prior to adding the filter to the measurement chain.
- 7. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1141.2677	44.61	-5.55	39.06	74.00	-34.94	peak
2	1583.8230	43.43	-5.26	38.17	74.00	-35.83	peak
3	1797.0996	47.40	-3.81	43.59	74.00	-30.41	peak
4	2157.6447	45.57	-2.50	43.07	74.00	-30.93	peak
5	2308.6636	50.44	-1.68	48.76	74.00	-25.24	peak
6	2692.2115	44.54	-0.54	44.00	74.00	-30.00	peak

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

- 4. Peak: Peak detector.
- 5. AVG: VBW refer to section 7.1.
- 6. For below 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses The proper operation of the transmitter prior to adding the filter to the measurement chain.
- 7. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.





HARMONICS AND SPURIOUS EMISSIONS

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	4822.7278	43.55	5.35	48.90	74.00	-25.10	peak
2	5799.7250	41.60	5.42	47.02	74.00	-26.98	peak
3	10924.7406	38.21	12.38	50.59	74.00	-23.41	peak
1	17001 7777	38.05	/17.56	55.61	74.00	-18.39	peak
4	17221.7777	27.04	17.56	44.60	54.00	-9.40	average
F	17600 5962	36.93	17.94	54.87	74.00	-19.13	peak
5	17090.3003	26.75	17.94	44.69	54.00	-9.31	average
0 47	17071 0715	37.51	17.75	55.26	74.00	-18.74	peak
0	17971.0715	26.69	17.75	44.44	54.00	-9.56	average

- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
- 4. Peak: Peak detector.
- 5. AVG: VBW refer to section 7.1.
- 6. For above 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses. The proper operation of the transmitter prior to adding the filter to the measurement chain.
- 7. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.





No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	3215.6520	44.38	0.88	45.26	74.00	-28.74	peak
2	4822.7278	44.68	5.35	50.03	74.00	-23.97	peak
3	5794.0993	45.14	5.31	50.45	74.00	-23.55	peak
4	17026 7522	37.30	18.81	56.11	74.00	-17.89	peak
4	17020.7555	26.93	18.81	45.74	54.00	-8.26	average
Б	17671 024	38.12	17.69	55.81	74.00	-18.19	peak
5 1/0/	17071.034	26.91	17.69	44.60	54.00	-9.40	average
6	17075 622	36.86	17.92	54.78	74.00	-19.22	peak
0	11915.022	26.81	17.92	44.73	54.00	-9.27	average

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Peak: Peak detector.

5. AVG: VBW refer to section 7.1.

6. For above 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses. The proper operation of the transmitter prior to adding the filter to the measurement chain.





No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	3249.4062	45.88	1.03	46.91	74.00	-27.09	peak
2	4873.3592	43.57	5.32	48.89	74.00	-25.11	peak
3	10855.3569	37.58	12.29	49.87	74.00	-24.13	peak
4	17024 2542	36.66	18.97	55.63	74.00	-18.37	peak
4	17034.2543	26.21	18.97	45.18	54.00	-8.82	average
F	17516 1905	37.10	/17.74	54.84	74.00	-19.16	peak
5	17510.1695	26.64	17.74	44.38	54.00	-9.62	average
6 17864.9831	37.05	18.42	55.47	74.00	-18.53	peak	
	1/004.9831	26.32	18.42	44.74	54.00	-9.26	average

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Peak: Peak detector.

5. AVG: VBW refer to section 7.1.

6. For above 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses. The proper operation of the transmitter prior to adding the filter to the measurement chain.





No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	3249.4062	44.26	1.03	45.29	74.00	-28.71	peak
2	4873.3592	44.35	5.32	49.67	74.00	-24.33	peak
3	10800.9751	38.00	12.06	50.06	74.00	-23.94	peak
1	16097 2724	36.53	18.77	55.30	74.00	-18.70	peak
4	10907.3734	26.27	18.77	45.04	54.00	-8.96	average
F	17200 6726	37.04	/17.89	54.93	74.00	-19.07	peak
5 1730	1/300.0/30	27.19	17.89	45.08	54.00	-8.92	average
6 17909.9887	36.66	18.28	54.94	74.00	-19.06	peak	
	17909.9887	26.89	18.28	45.17	54.00	-8.83	average

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Peak: Peak detector.

5. AVG: VBW refer to section 7.1.

6. For above 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses. The proper operation of the transmitter prior to adding the filter to the measurement chain.



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	3281.2852	45.91	1.46	47.37	74.00	-26.63	peak
2	4923.9905	44.69	5.18	49.87	74.00	-24.13	peak
3	10857.2322	37.93	12.24	50.17	74.00	-23.83	peak
4	17105 5122	37.52	18.16	55.68	74.00	-18.32	peak
4	17105.5152	26.57	18.16	44.73	54.00	-9.27	average
F	17707 4624	37.41	17.66	55.07	74.00	-18.93	peak
5 17707.40	17707.4034	27.16	17.66	44.82	54.00	-9.18	average
6 1705	17054 0044	36.34	18.52	54.86	74.00	-19.14	peak
0	17954.9944	26.21	18.52	44.73	54.00	-9.27	average

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

- 4. Peak: Peak detector.
- 5. AVG: VBW refer to section 7.1.
- 6. For above 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses. The proper operation of the transmitter prior to adding the filter to the measurement chain.
- 7. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.





No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	4923.9905	44.34	5.18	49.52	74.00	-24.48	peak
2	7386.1733	41.12	8.59	49.71	74.00	-24.29	peak
3	11999.2499	37.99	12.97	50.96	74.00	-23.04	peak
4	17026 1205	37.41	18.94	56.35	74.00	-17.65	peak
4	17030.1295	26.73	18.94	45.67	54.00	-8.33	average
Б	17270 2074	36.32	18.60	54.92	74.00	-19.08	peak
5	11319.2914	26.86	18.60	45.46	54.00	-8.54	average
6 17898.7373	36.54	18.42	54.96	74.00	-19.04	peak	
	1/090./3/3	26.28	18.42	44.70	54.00	-9.30	average

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Peak: Peak detector.

5. AVG: VBW refer to section 7.1.

6. For above 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses. The proper operation of the transmitter prior to adding the filter to the measurement chain.





No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	3215.6520	45.17	0.88	46.05	74.00	-27.95	peak
2	4830.2288	41.46	5.53	46.99	74.00	-27.01	peak
3	10821.6027	38.25	12.19	50.44	74.00	-23.56	peak
1	17105 5044	37.12	18.28	55.40	74.00	-18.60	peak
4	17 195.5244	26.92	18.28	45.20	54.00	-8.80	average
Б	17600 0512	36.79	/17.87	54.66	74.00	-19.34	peak
5	17009.9512	26.97	17.87	44.84	54.00	-9.16	average
6	6 17872.4841	37.27	18.30	55.57	74.00	-18.43	peak
6		25.95	18.30	44.25	54.00	-9.75	average

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Peak: Peak detector.

5. AVG: VBW refer to section 7.1.

6. For above 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses. The proper operation of the transmitter prior to adding the filter to the measurement chain.





No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	3215.6520	44.53	0.88	45.41	74.00	-28.59	peak
2	4820.8526	41.97	5.31	47.28	74.00	-26.72	peak
3	7511.8140	39.50	8.64	48.14	74.00	-25.86	peak
4	17107 2007	37.31	18.31	55.62	74.00	-18.38	peak
4	17 197.3997	27.28	18.31	45.59	54.00	-8.41	average
E	17550 2100	36.79	/17.90	54.69	74.00	-19.31	peak
5	17559.5199	26.59	17.90	44.49	54.00	-9.51	average
6	6 17909.9887	37.16	18.28	55.44	74.00	-18.56	peak
Ø		26.49	18.28	44.77	54.00	-9.23	average

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Peak: Peak detector.

5. AVG: VBW refer to section 7.1.

6. For above 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses. The proper operation of the transmitter prior to adding the filter to the measurement chain.

(UL)		REPO	ORT No.: 4789884561-1 Page 111 of 131
Test Mode	Channel	Polarization	Verdict
11G	MCH	Horizontal	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	3249.4062	45.29	1.03	46.32	74.00	-27.68	peak
2	4880.8601	40.23	5.33	45.56	74.00	-28.44	peak
3	8912.6141	39.56	8.53	48.09	74.00	-25.91	peak
4	16051 744	37.09	18.40	55.49	74.00	-18.51	peak
4	10951.744	26.70	18.40	45.10	54.00	-8.90	average
E	17660 0597	37.71	/17.63	55.34	74.00	-18.66	peak
5	17009.9507	26.30	17.63	43.93	54.00	-10.07	average
c	17007 1050	36.34	18.45	54.79	74.00	-19.21	peak
6	1/00/.4859	26.28	18.45	44.73	54.00	-9.27	average

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Peak: Peak detector.

5. AVG: VBW refer to section 7.1.

6. For above 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses. The proper operation of the transmitter prior to adding the filter to the measurement chain.



Test Mode	Channel	Polarization	Verdict		
11G	MCH	Vertical	PASS		



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	3249.4062	43.97	1.03	45.00	74.00	-29.00	peak
2	4878.9849	42.68	5.33	48.01	74.00	-25.99	peak
3	9261.4077	39.38	8.79	48.17	74.00	-25.83	peak
1	16602 0616	37.31	18.11	55.42	74.00	-18.58	peak
4	10092.9010	26.46	18.11	44.57	54.00	-9.43	average
E	17527 4400	38.24	17.87	56.11	74.00	-17.89	peak
5	17527.4409	27.38	17.87	45.25	54.00	-8.75	average
6 17953.1191	37.09	18.54	55.63	74.00	-18.37	peak	
	17953.1191	26.58	18.54	45.12	54.00	-8.88	average

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
- 4. Peak: Peak detector.
- 5. AVG: VBW refer to section 7.1.
- 6. For above 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses. The proper operation of the transmitter prior to adding the filter to the measurement chain.
- 7. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.





No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	3281.2852	46.15	1.46	47.61	74.00	-26.39	peak
2	4922.1153	41.94	5.19	47.13	74.00	-26.87	peak
3	11232.2790	37.35	11.70	49.05	74.00	-24.95	peak
1	17012 6267	37.02	18.45	55.47	74.00	-18.53	peak
4	17013.0207	26.43	18.45	44.88	54.00	-9.12	average
Б	17621 2027	37.18	/17.57	54.75	74.00	-19.25	peak
5	17021.2027	27.00	17.57	44.57	54.00	-9.43	average
6	6 17953.1191	37.07	18.54	55.61	74.00	-18.39	peak
Ö		26.16	18.54	44.70	54.00	-9.30	average

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Peak: Peak detector.

5. AVG: VBW refer to section 7.1.

6. For above 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses. The proper operation of the transmitter prior to adding the filter to the measurement chain.



Test Mode	Test Mode Channel		Verdict		
11G	HCH	Vertical	PASS		



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	3281.2852	43.92	1.46	45.38	74.00	-28.62	peak
2	7382.4228	41.07	8.59	49.66	74.00	-24.34	peak
3	11012.8766	38.10	12.49	50.59	74.00	-23.41	peak
1	17101 774	37.05	18.21	55.26	74.00	-18.74	peak
4	1/191.//4	27.67	18.21	45.88	54.00	-8.12	average
Б	17505 5657	36.99	17.83	54.82	74.00	-19.18	peak
5	17525.5057	26.88	17.83	44.71	54.00	-9.29	average
6	17000 0997	37.47	18.28	55.75	74.00	-18.25	peak
6	17909.9887	26.28	18.28	44.56	54.00	-9.44	average

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
- 4. Peak: Peak detector.
- 5. AVG: VBW refer to section 7.1.
- 6. For above 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses. The proper operation of the transmitter prior to adding the filter to the measurement chain.
- 7. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	3215.6520	44.80	0.88	45.68	74.00	-28.32	peak
2	7504.3130	38.98	8.60	47.58	74.00	-26.42	peak
3	10847.8560	38.38	12.37	50.75	74.00	-23.25	peak
4	16091 7477	36.81	18.76	55.57	74.00	-18.43	peak
4	10981.7477	27.00	18.76	45.76	54.00	-8.24	average
F	17005 5257	37.78	/17.76	55.54	74.00	-18.46	peak
5	17285.5357	27.24	17.76	45.00	54.00	-9.00	average
6	17004 2742	37.06	17.77	54.83	74.00	-19.17	peak
ю	17994.3743	26.95	17.77	44.72	54.00	-9.28	average

Frequency[Hz]

Note: 1. Measurement = Reading Level + Correct Factor.

AV Limit

AV Detector

*

- PK

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Peak: Peak detector.

PK Limit

✤ PK Detector

5. AVG: VBW refer to section 7.1.

6. For above 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses. The proper operation of the transmitter prior to adding the filter to the measurement chain.





No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	3215.6520	44.80	0.88	45.68	74.00	-28.32	peak
2	4832.1040	41.10	5.51	46.61	74.00	-27.39	peak
3	10795.3494	37.95	12.07	50.02	74.00	-23.98	peak
4	16040 4026	37.07	18.46	55.53	74.00	-18.47	peak
4	10940.4920	26.64	18.46	45.10	54.00	-8.90	average
E	17005 5257	37.54	/17.76	55.30	74.00	-18.70	peak
5	17205.5357	26.83	17.76	44.59	54.00	-9.41	average
6	6 17911.864	37.16	18.19	55.35	74.00	-18.65	peak
Ø		26.33	18.19	44.52	54.00	-9.48	average

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Peak: Peak detector.

5. AVG: VBW refer to section 7.1.

6. For above 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses. The proper operation of the transmitter prior to adding the filter to the measurement chain.





No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	3247.5309	45.63	1.05	46.68	74.00	-27.32	peak
2	7408.6761	39.31	8.67	47.98	74.00	-26.02	peak
3	12012.3765	37.44	12.70	50.14	74.00	-23.86	peak
4	17224 0156	38.22	17.48	55.70	74.00	-18.30	peak
4	17324.9150	26.59	17.48	44.07	54.00	-9.93	average
Б	17609 076	37.43	/17.79	55.22	74.00	-18.78	peak
5	17000.070	27.18	17.79	44.97	54.00	-9.03	average
6	6 17954.9944	35.98	18.52	54.50	74.00	-19.50	peak
Ö		26.88	18.52	45.40	54.00	-8.60	average

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Peak: Peak detector.

5. AVG: VBW refer to section 7.1.

6. For above 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses. The proper operation of the transmitter prior to adding the filter to the measurement chain.



Test Mode	Channel	Polarization	Verdict
11N HT20	MCH	Vertical	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	3249.4062	43.94	1.03	44.97	74.00	-29.03	peak
2	7318.6648	40.53	8.56	49.09	74.00	-24.91	peak
3	10804.7256	37.59	12.12	49.71	74.00	-24.29	peak
1	17107 2004	37.15	18.10	55.25	74.00	-18.75	peak
4	17107.3004	25.88	18.10	43.98	54.00	-10.02	average
Б	17269 046	37.08	18.40	55.48	74.00	-18.52	peak
Э	17300.040	27.07	18.40	45.47	54.00	-8.53	average
0 47004 0000	36.83	18.13	54.96	74.00	-19.04	peak	
0	17031.2209	25.81	18.13	43.94	54.00	-10.06	average

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
- 4. Peak: Peak detector.
- 5. AVG: VBW refer to section 7.1.
- 6. For above 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses. The proper operation of the transmitter prior to adding the filter to the measurement chain.
- 7. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	3281.2852	46.21	1.46	47.67	74.00	-26.33	peak
2	7384.2980	39.71	8.59	48.30	74.00	-25.70	peak
3	11009.1261	38.56	12.44	51.00	74.00	-23.00	peak
4	17024 2542	36.45	18.97	55.42	74.00	-18.58	peak
4	17034.2343	26.18	18.97	45.15	54.00	-8.85	average
F	17522 0666	36.81	17.75	54.56	74.00	-19.44	peak
5	17555.0000	26.62	17.75	44.37	54.00	-9.63	average
6 17026 242	36.40	18.22	54.62	74.00	-19.38	peak	
0	17930.242	26.16	18.22	44.38	54.00	-9.62	average

- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
- 4. Peak: Peak detector.
- 5. AVG: VBW refer to section 7.1.
- 6. For above 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses. The proper operation of the transmitter prior to adding the filter to the measurement chain.
- 7. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.





No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	3281.2852	42.86	1.46	44.32	74.00	-29.68	peak
2	4927.7410	42.73	5.15	47.88	74.00	-26.12	peak
3	13945.7432	36.48	14.30	50.78	74.00	-23.22	peak
1	17110 6200	37.39	18.00	55.39	74.00	-18.61	peak
4	17110.0390	25.94	18.00	43.94	54.00	-10.06	average
F	17551 010	36.42	18.05	54.47	74.00	-19.53	peak
Э	17551.619	26.53	18.05	44.58	54.00	-9.42	average
6	0 47000 4440	35.80	18.51	54.31	74.00	-19.69	peak
6 17893.1116	25.76	18.51	44.27	54.00	-9.73	average	

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Peak: Peak detector.

5. AVG: VBW refer to section 7.1.

6. For above 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses. The proper operation of the transmitter prior to adding the filter to the measurement chain.



SPURIOUS EMISSIONS 18GHz TO 26.5GHz (WORST-CASE CONFIGURATION)



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	18788.8789	48.76	-1.04	47.72	74.00	-26.28	peak
2	20012.1512	47.67	-0.52	47.15	74.00	-26.85	peak
3	21060.3060	47.35	-0.95	46.40	74.00	-27.60	peak
4	22395.7896	47.49	0.66	48.15	74.00	-25.85	peak
5	24414.7415	48.09	-0.69	47.40	74.00	-26.60	peak
6	25661.8162	48.86 /	1.12	49.98	74.00	-24.02	peak

Note: 1.If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit. 2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

(UL)		REPO	ORT No.: 4789884561-1 Page 122 of 131
Test Mode	Channel	Polarization	Verdict
11B	MCH	Vertical	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	18311.1311	49.43	-1.01	48.42	74.00	-25.58	peak
2	19324.4324	48.40	-0.86	47.54	74.00	-26.46	peak
3	20904.7405	47.68	-0.94	46.74	74.00	-27.26	peak
4	22185.8186	47.51	0.40	47.91	74.00	-26.09	peak
5	23426.9427	46.73	0.08	46.81	74.00	-27.19	peak
6	25533.4533	48.22	0.90	49.12	74.00	-24.88	peak

- Note: 1.If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit. 2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
 - 3. Measurement = Reading Level + Correct Factor.

Part IV: 30MHz~1GHz



SPURIOUS EMISSIONS 30M TO 1GHHz (WORST-CASE CONFIGURATION)

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	30.1940	5.63	26.93	32.56	40.00	-7.44	peak
2	74.1394	12.65	14.61	27.26	40.00	-12.74	peak
3	109.0629	5.51	18.46	23.97	43.50	-19.53	peak
4	187.0587	6.30	18.34	24.64	43.50	-18.86	peak
5	337.4237	6.55	21.38	27.93	46.00	-18.07	peak
6	709.0679	7.89	28.68	36.57	46.00	-9.43	peak

Note: 1. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit. 2. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.





No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	33.8804	8.04	24.58	32.62	40.00	-7.38	peak
2	58.1328	22.69	14.12	36.81	40.00	-3.19	peak
3	100.2350	17.32	16.93	34.25	43.50	-9.25	peak
4	195.4986	8.90	18.89	27.79	43.50	-15.71	peak
5	259.5250	11.55	19.13	30.68	46.00	-15.32	peak
6	718.0898	7.12	28.80	35.92	46.00	-10.08	peak

- Note: 1. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit. 2. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.
 - 3. Measurement = Reading Level + Correct Factor.

Part V: 9KHz~30MHz



SPURIOUS EMISSIONS Below 30MHz (WORST CASE CONFIGURATION-FACE ON)

No.	Frequency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.0240	53.41	-60.87	-7.46	40.01	-47.47	peak
2	0.0479	61.77	-61.02	0.75	33.99	-33.24	peak
3	0.0719	43.71	-61.38	-17.67	30.47	-48.14	peak
4	0.0959	46.90	-60.84	-13.94	27.97	-41.91	peak
5	0.1221	38.98	-60.98	-22.00	25.87	-47.87	peak
6	0.1438	40.91	-61.24	-20.33	24.44	-44.77	peak

- 2. Result 300m= Result 3m-80 dBuV/m
- 3. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.
- 4. All 3 polarizations(Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report





No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.1548	45.51	-61.29	-15.78	23.81	-39.59	peak
2	0.1918	42.21	-61.10	-18.89	21.95	-40.84	peak
3	0.2341	41.08	-60.89	-19.81	20.21	-40.02	peak
4	0.2808	35.20	-60.78	-25.58	18.63	-44.21	peak
5	0.3355	35.98	-60.73	-24.75	17.09	-41.84	peak
6	0.4320	30.62	-60.65	-30.03	14.62	-44.65	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
 - 2. Result 300m= Result 3m-80 dBuV/m
 - 3. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.
 - 4. All 3 polarizations(Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report



Test Mode	Channel	Frequency Range	Verdict
11B	MCH	490KHz~30MHz	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark	
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)		
1	0.5284	24.85	-20.60	4.25	33.14	-28.89	peak	
2	0.7674	18.35	-20.65	-2.30	29.90	-32.20	peak	
3	3.4000	11.60	-20.30	-8.70	29.54	-38.24	peak	
4	4.0758	11.77	-20.06	-8.29	29.54	-37.83	peak	
5	10.2794	7.58	-18.82	-11.24	29.54	-40.78	peak	
6	22.4417	8.41	-17.67	-9.26	29.54	-38.80	peak	

- Note: 1. Measurement = Reading Level + Correct Factor.
 - 2. Result 30m= Result 3m-40 dBuV/m
 - 3. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.
 - 4. All 3 polarizations(Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report



8. AC POWER LINE CONDUCTED EMISSIONS

<u>LIMITS</u>

Please refer to FCC §15.207 (a), ISED RSS-Gen Clause 8.8

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

TEST SETUP AND PROCEDURE



The EUT is put on a table of non-conducting material that is up to 12mm high. The vertical conducting wall of shielding is located 40cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI Measurement Receiver (R&S Test Receiver ESR3) is used to test the emissions from both sides of AC line. According to the requirements in Section 6.2 of ANSI C63.10-2013.Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and average detector mode. The bandwidth of EMI test receiver is set at 9kHz.

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application.



For L Line:

TEST RESULTS (WORST CASE CONFIGURATION)



Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.164925		34.71	55.21	20.50	1000.0	9.000	L1	OFF	9.4
0.172388	52.51		64.85	12.33	1000.0	9.000	L1	OFF	9.4
0.829088		19.93	46.00	26.07	1000.0	9.000	L1	OFF	9.6
0.970875		21.00	46.00	25.00	1000.0	9.000	L1	OFF	9.7
1.329075	31.98		56.00	24.02	1000.0	9.000	L1	OFF	9.5
2.329050	32.15		56.00	23.85	1000.0	9.000	L1	OFF	9.7
2.351438		23.89	46.00	22.11	1000.0	9.000	L1	OFF	9.7
4.179750	31.50		56.00	24.50	1000.0	9.000	L1	OFF	9.6
4.179750		25.61	46.00	20.39	1000.0	9.000	L1	OFF	9.6
4.329000	31.62		56.00	24.38	1000.0	9.000	L1	OFF	9.6
4.612575		25.97	46.00	20.03	1000.0	9.000	L1	OFF	9.5
7.761750	34.21		60.00	25.79	1000.0	9.000	L1	OFF	9.7

Note: 1. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.

- 2. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).
- 3. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.
- 4. The extension cord/outlet strip was calibrated with the LISN as required by ANSI C63.10:2013 Clause 6.2.2.
- 5. Pre-testing all test modes and channels, and find the MCH of 11B mode which is the worst case, so only the worst case is included in this test report.







Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Line	Filter	Corr. (dB)
()	(((()	(ms)	(()
0.157463		22.45	55.60	33.14	1000.0	9.000	Ν	OFF	9.5
0.157463	44.81		65.60	20.79	1000.0	9.000	Ν	OFF	9.5
0.261938		24.35	51.37	27.02	1000.0	9.000	Ν	OFF	9.6
0.261938	43.74		61.37	17.63	1000.0	9.000	Ν	OFF	9.6
0.366413		14.30	48.58	34.28	1000.0	9.000	Ν	OFF	9.7
0.426113	29.57		57.33	27.76	1000.0	9.000	Ν	OFF	9.6
7.351313	34.00		60.00	26.00	1000.0	9.000	Ν	OFF	9.8
7.351313		29.43	50.00	20.57	1000.0	9.000	Ν	OFF	9.8
7.858763		30.10	50.00	19.90	1000.0	9.000	Ν	OFF	9.8
8.149800	34.44		60.00	25.56	1000.0	9.000	Ν	OFF	9.8
8.149800		29.57	50.00	20.43	1000.0	9.000	Ν	OFF	9.8
8.299050	34.01		60.00	25.99	1000.0	9.000	Ν	OFF	9.8

Note: 1. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.

- 2. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).
- 3. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.
- 4. The extension cord/outlet strip was calibrated with the LISN as required by ANSI C63.10:2013 Clause 6.2.2.
- 5. Pre-testing all test modes and channels, and find the MCH of 11B mode which is the worst case, so only the worst case is included in this test report.

10. ANTENNA REQUIREMENTS

APPLICABLE REQUIREMENTS

Please refer to FCC §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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Please refer to FCC §15.247(b)(4)

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

ANTENNA CONNECTOR

EUT has a EUT with one Meandered printed inverted-F antenna.

ANTENNA GAIN

The antenna gain of EUT is less than 6 dBi

END OF REPORT