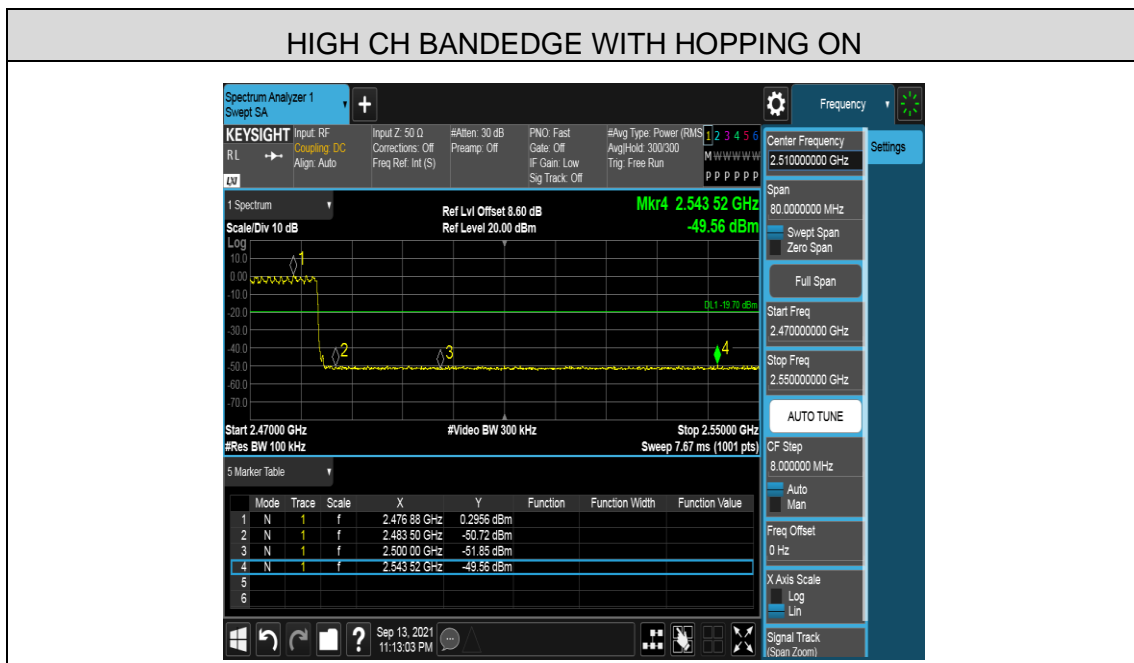
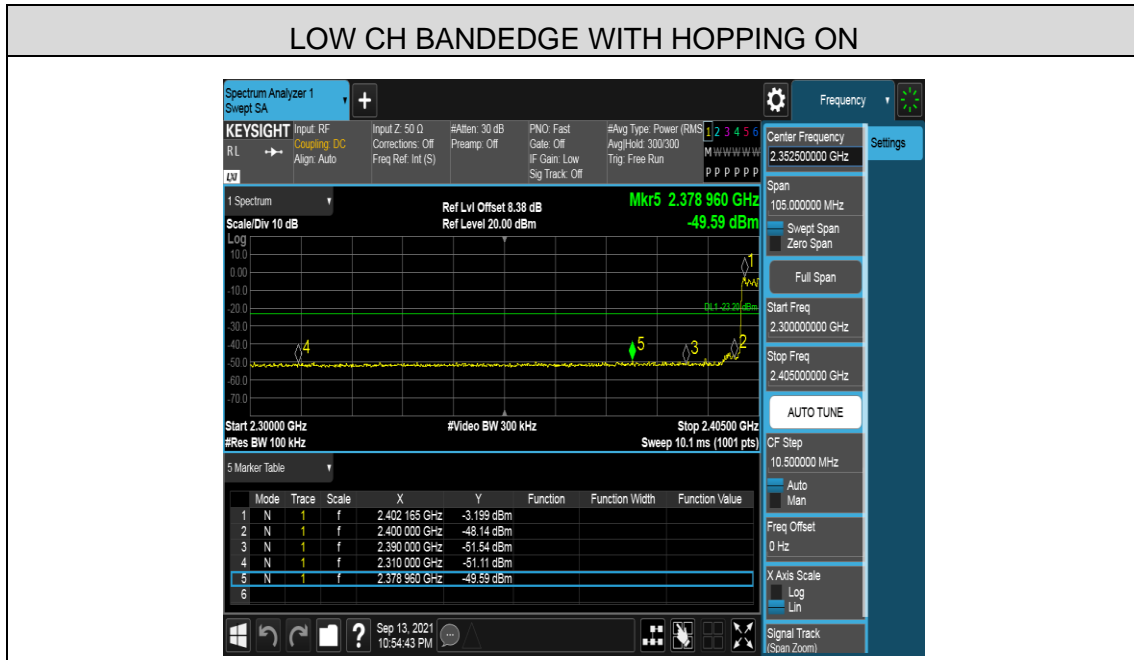


Note: The point 1 which exceeds the limit is 2.4G main carrier.

SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON





7. RADIATED TEST RESULTS

7.1. LIMITS AND PROCEDURE

LIMITS

Please refer to FCC §15.205 and §15.209

Please refer to RSS-GEN Clause 8.9 and Clause 8.10

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

Limit for below 30MHz based on RSS-GEN table 6:

Table 6 – General field strength limits at frequencies below 30 MHz		
Frequency	Magnetic field strength (H-Field) (μA/m)	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.

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)

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

Restricted bands of operation

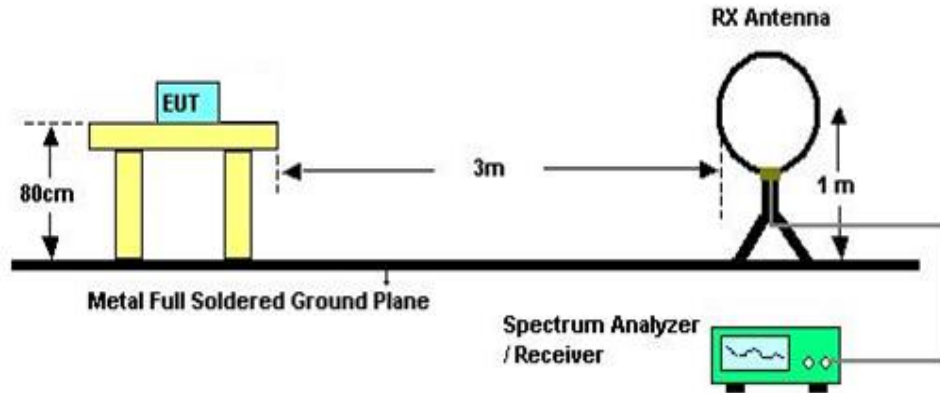
MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	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



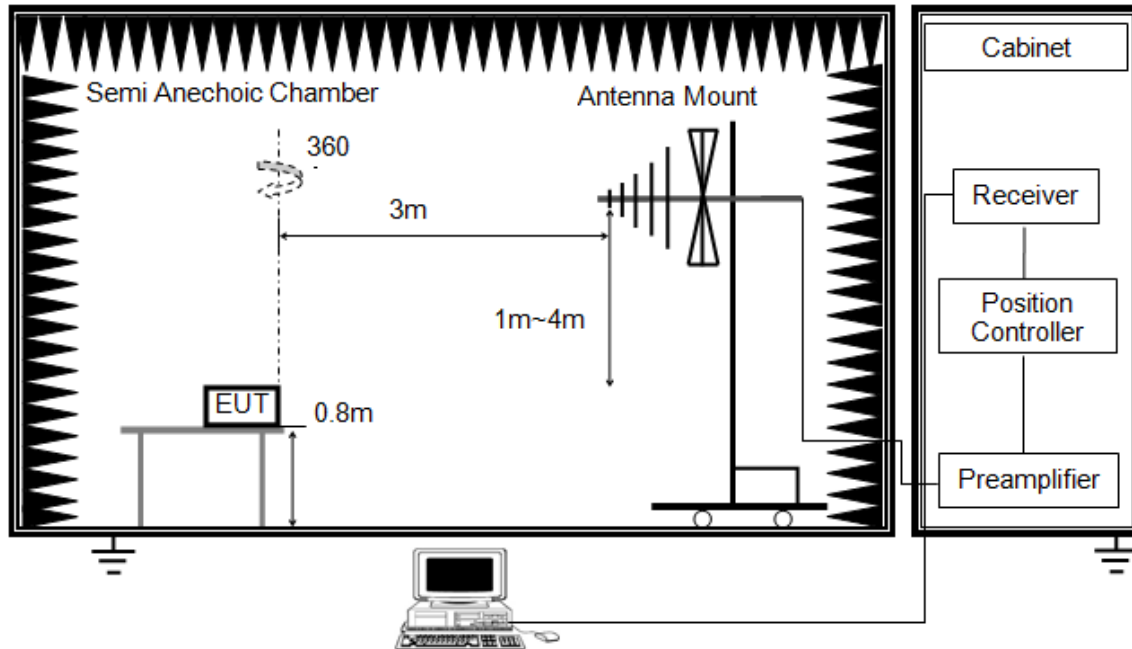
The setting of the spectrum Analyzer

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
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 and vertical polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 80cm 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. 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)
8. The limits in CFR 47, Part 15, Subpart C, paragraph 15.209 (a), are identical to those in RSS-GEN Section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table) using the free space impedance of 377Ω. For example, the measurement frequency X KHz resulted in a

level of Y dBuV/m, which is equivalent to $Y-51.5 = Z$ dBuA/m, which has the same margin, W dB, to the corresponding RSS-GEN Table 6 limit as it has to be 15.209(a) limit.

Below 1GHz and above 30MHz

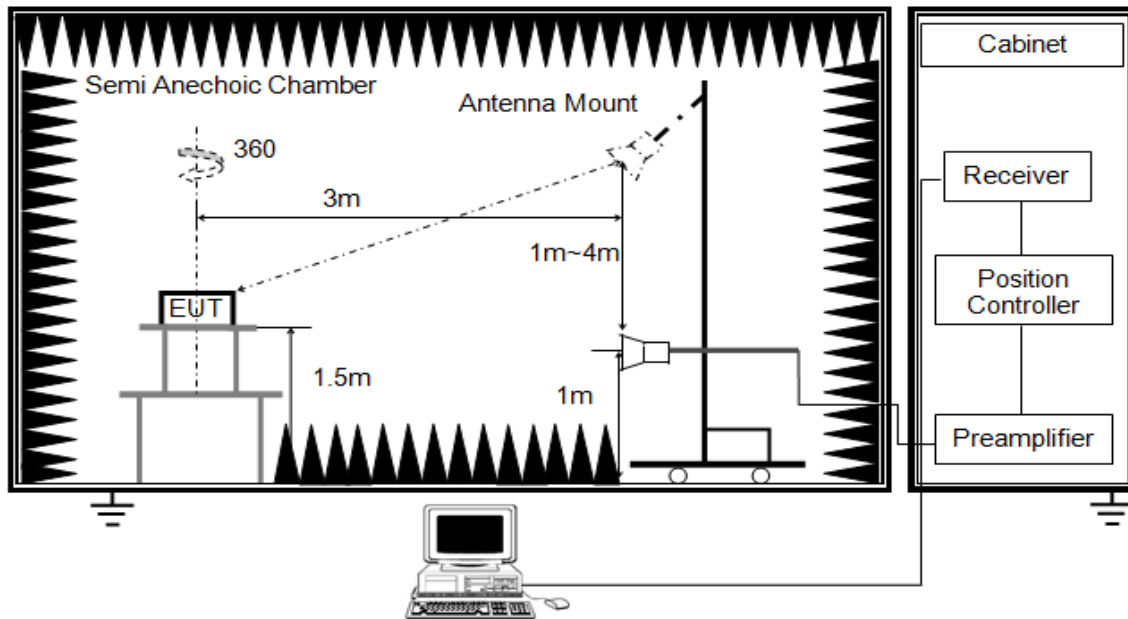


The setting of the spectrum Analyzer

RBW	120K
VBW	300K
Sweep	Auto
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 80cm 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.

Above 1G

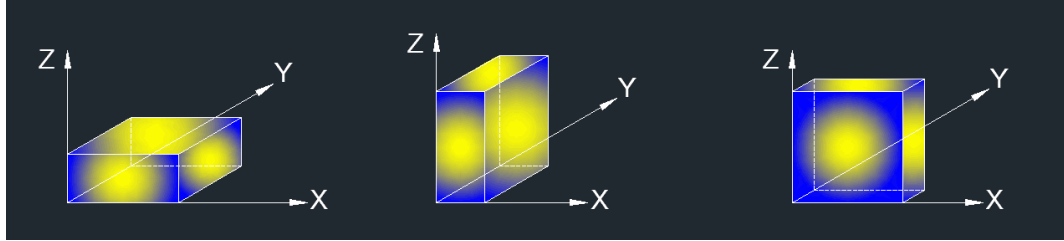


RBW	1M
VBW	PEAK: 3M AVG: see note 6
Sweep	Auto
Detector	Peak
Trace	Max hold

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 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 1/T video bandwidth with peak detector, max hold to be run for at least 50 x (1/duty cycle) traces for average measurements.
6. 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 this product can only working at X axis.

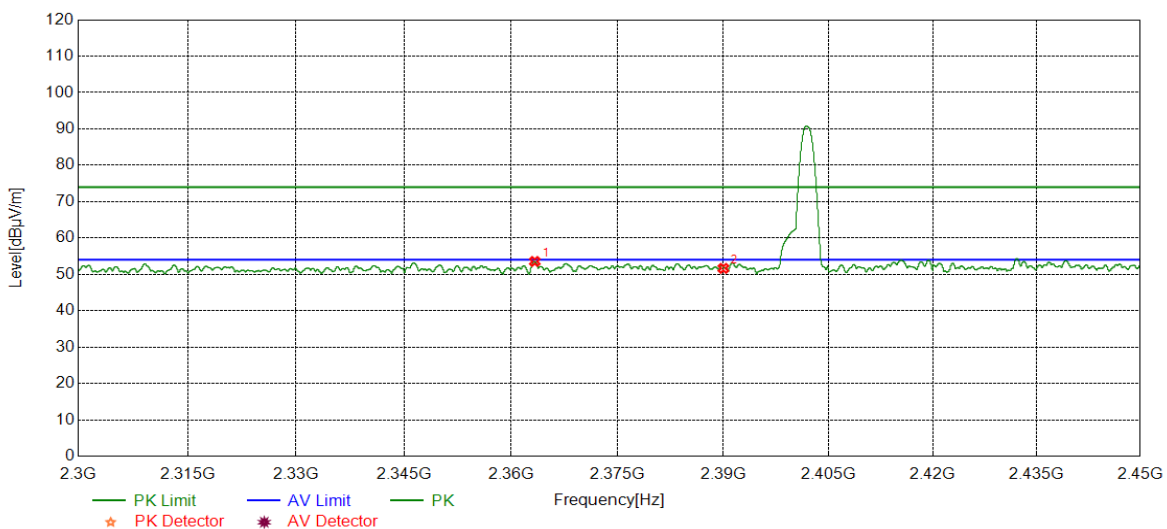
7.2. RESTRICTED BANDEDGE

7.2.1. TEST ENVIRONMENT

Environment Parameter	Selected Values During Tests
Relative Humidity	21.9
Atmospheric Pressure:	65%
Temperature	1005hPa

7.2.2. GFSK MODE (For Normal Part)

RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)

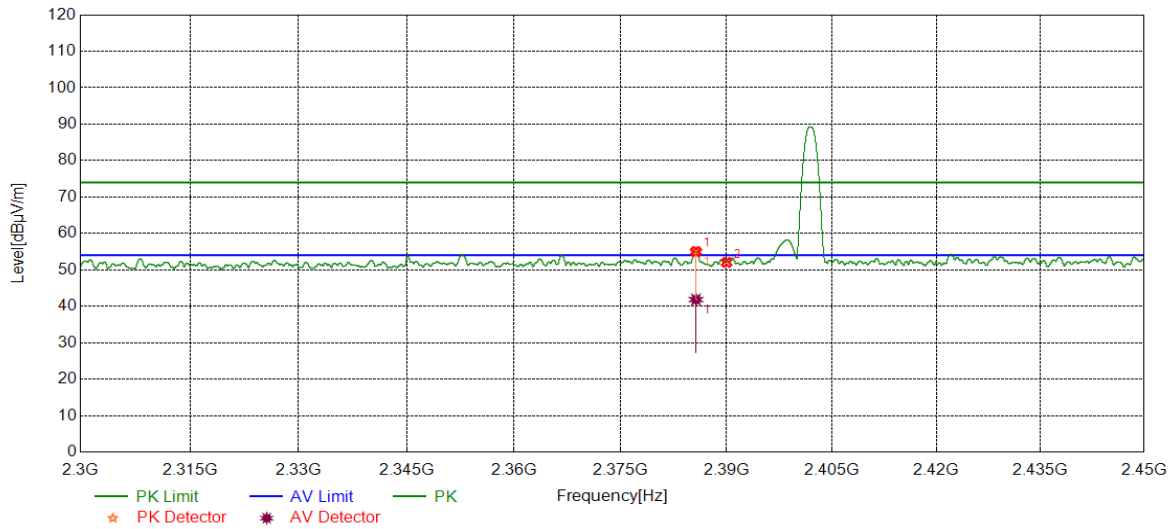


No.	Frequency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2363.3267	40.72	12.83	53.55	74.00	-20.45	peak
2	2390.0000	38.58	13.07	51.65	74.00	-22.35	peak

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



RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)

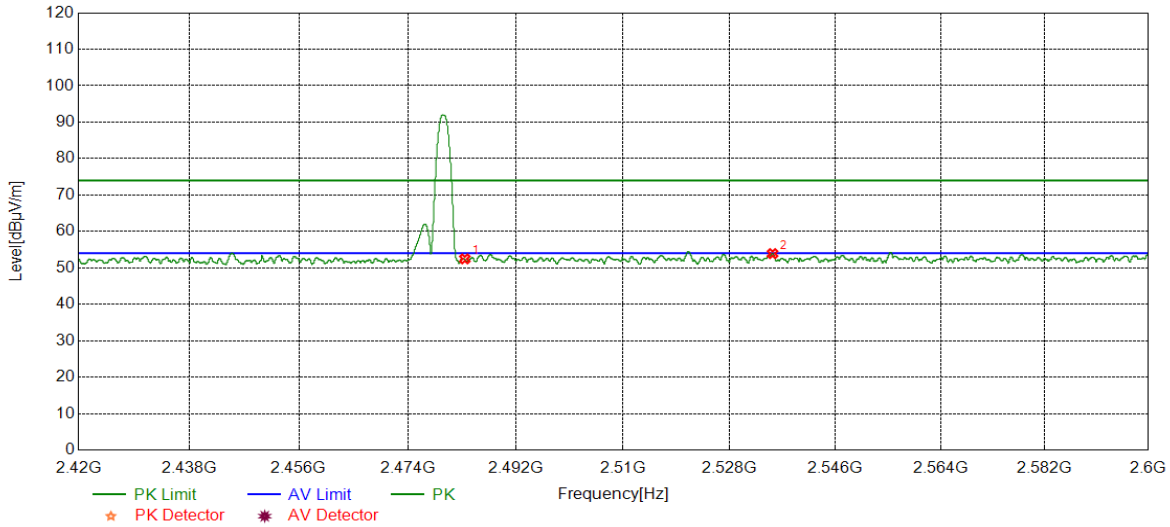


No.	Frequency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2385.6607	41.99	13.06	55.05	74.00	-18.95	peak
		28.79	13.06	41.85	54.00	-12.15	average
2	2390.0000	38.97	13.07	52.04	74.00	-21.96	peak

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



RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)

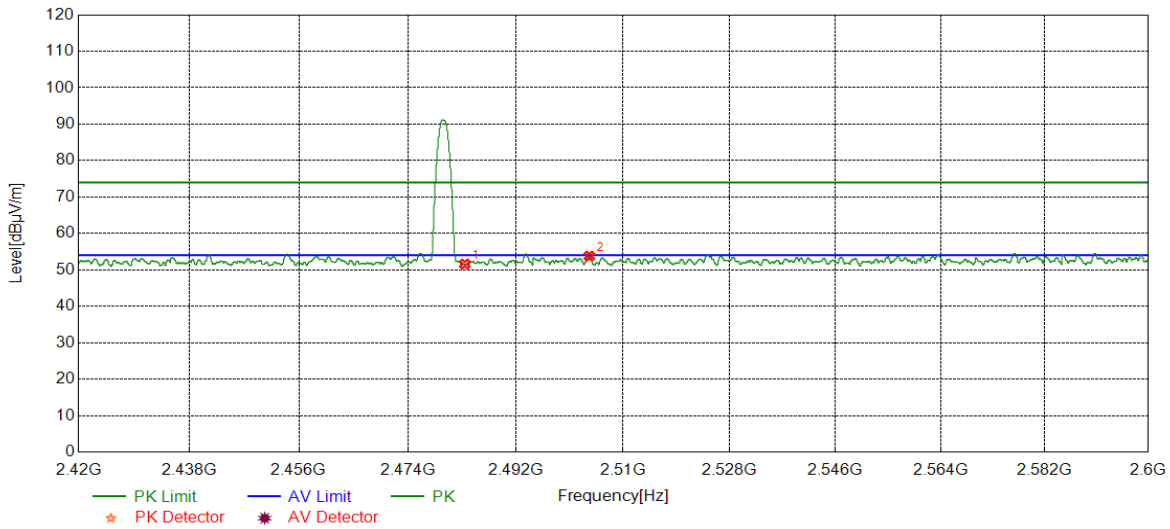


No.	Frequency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.5000	39.50	12.97	52.47	74.00	-21.53	peak
2	2535.2819	40.49	13.42	53.91	74.00	-20.09	peak

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



RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)



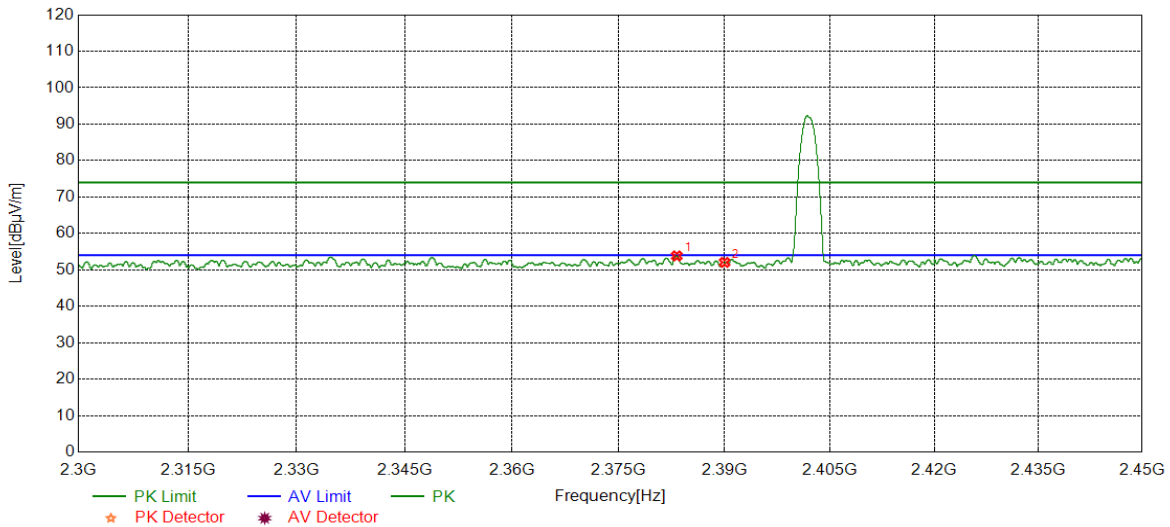
No.	Frequency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.5000	38.64	12.97	51.61	74.00	-22.39	peak
2	2504.3180	40.61	13.17	53.78	74.00	-20.22	peak

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



7.2.3. 8DPSK MODE

RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)

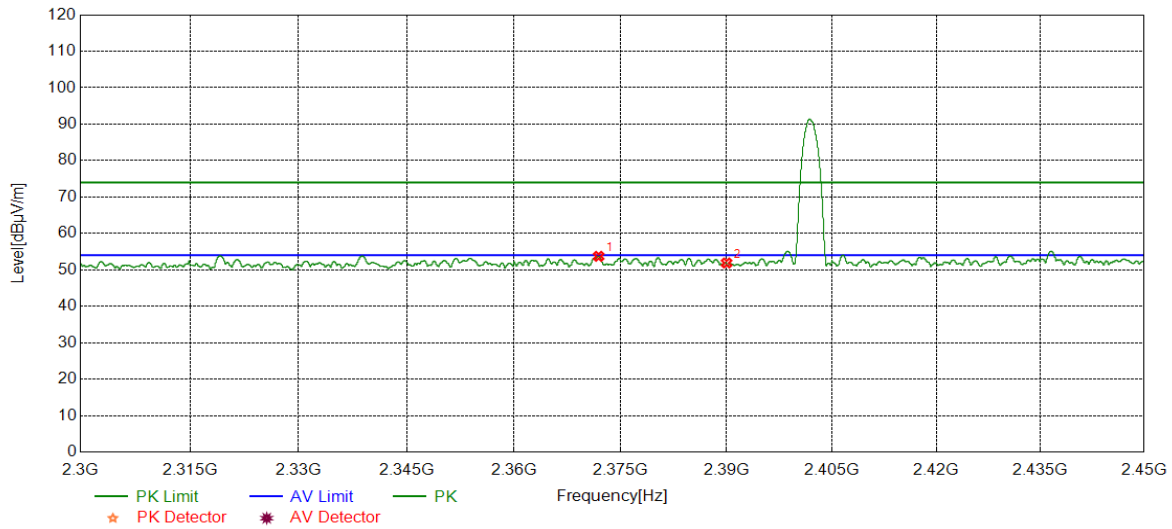


No.	Frequency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2383.2229	40.77	13.06	53.83	74.00	-20.17	peak
2	2390.0000	38.98	13.07	52.05	74.00	-21.95	peak

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



RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)

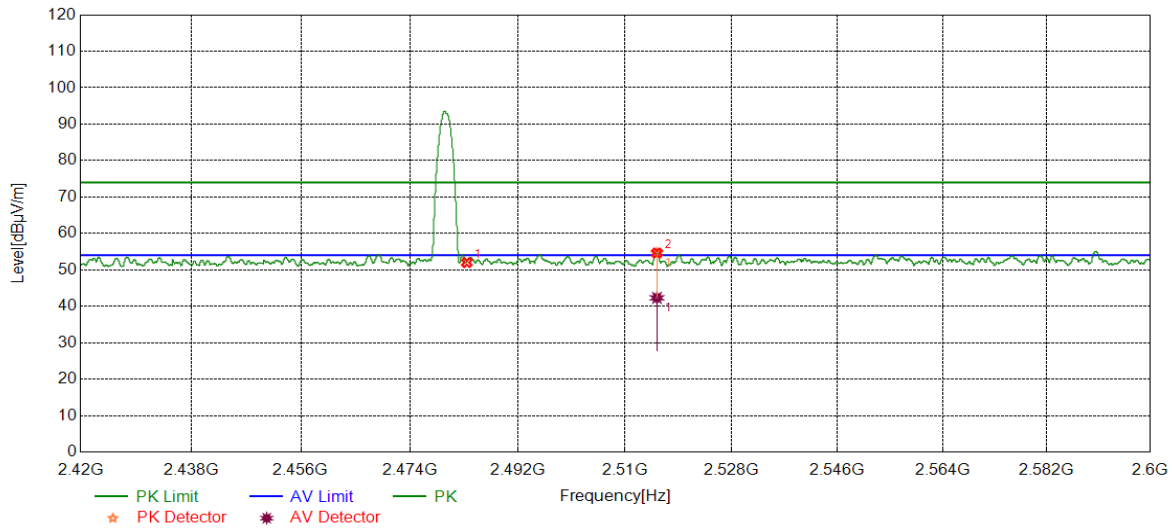


No.	Frequency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2371.8965	40.77	12.95	53.72	74.00	-20.28	peak
2	2390.0000	38.82	13.07	51.89	74.00	-22.11	peak

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



RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)

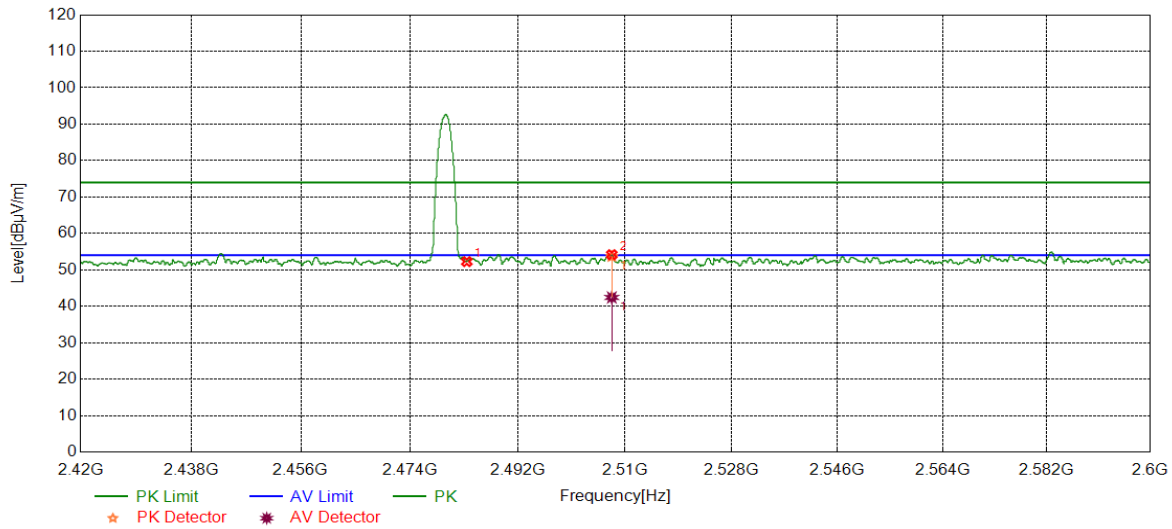


No.	Frequency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.5000	39.04	12.97	52.01	74.00	-21.99	peak
2	2515.3669	41.43	13.21	54.64	74.00	-19.36	peak
		29.11	13.21	42.32	54.00	-11.68	average

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



RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.5000	39.29	12.97	52.26	74.00	-21.74	peak
2	2507.7610	40.98	13.19	54.17	74.00	-19.83	peak
		29.24	13.19	42.43	54.00	-11.57	average

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



7.3. SPURIOUS EMISSIONS

7.3.1. TEST RESULT TABLE:

1) For 1GHz~3GHz

Environment Parameter	Selected Values During Tests
Relative Humidity	21.9
Atmospheric Pressure:	65%
Temperature	1005hPa

Test Mode	Channel	P _{uw} (dBm)	Verdict
GFSK	LCH	<Limit	PASS
	MCH	<Limit	PASS
	HCH	<Limit	PASS
8DPSK MODE	LCH	<Limit	PASS
	MCH	<Limit	PASS
	HCH	<Limit	PASS

2) For 3GHz~18GHz

Environment Parameter	Selected Values During Tests
Relative Humidity	21.9
Atmospheric Pressure:	65%
Temperature	1005hPa

Test Mode	Channel	P _{uw} (dBm)	Verdict
GFSK	LCH	<Limit	PASS
	MCH	<Limit	PASS
	HCH	<Limit	PASS
8DPSK MODE	LCH	<Limit	PASS
	MCH	<Limit	PASS
	HCH	<Limit	PASS



3) For 18GHz~26.5GHz

Environment Parameter	Selected Values During Tests
Relative Humidity	21.9
Atmospheric Pressure:	65%
Temperature	1009hPa

Test Mode	Channel	Puw(dBm)	Verdict
8DPSK	HCH	<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

5) Environment Parameter	Selected Values During Tests
Relative Humidity	21.9
Atmospheric Pressure:	65%
Temperature	1009hPa

Test Mode	Channel	Puw(dBm)	Verdict
8DPSK	HCH	<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

6) Environment Parameter	Selected Values During Tests
Relative Humidity	21.9
Atmospheric Pressure:	65%
Temperature	1009hPa

Test Mode	Channel	Puw(dBm)	Verdict
8DPSK	HCH	<Limit	PASS

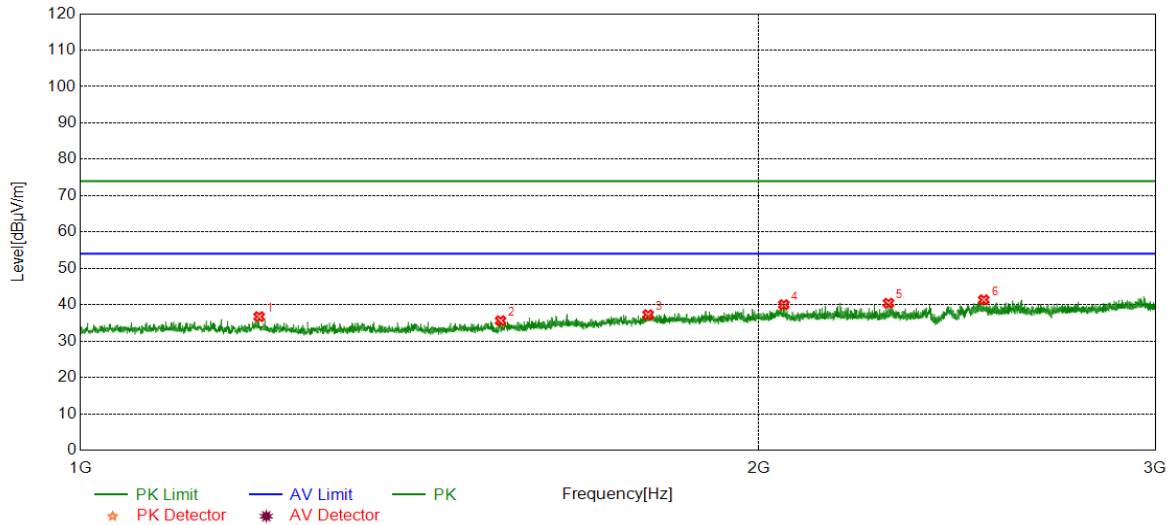
Remark:

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

Test Mode	Channel	Polarization	Verdict
GFSK	LCH	Horizontal	PASS

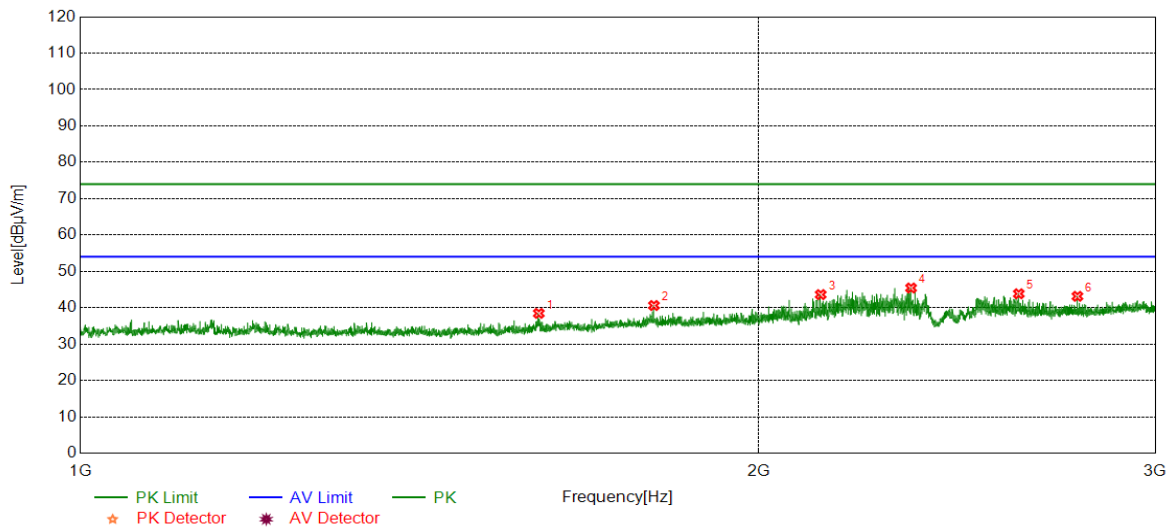


No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1200.5000	42.28	-5.55	36.73	74.00	-37.27	peak
2	1536.5000	41.36	-5.75	35.61	74.00	-38.39	peak
3	1786.5000	41.08	-3.81	37.27	74.00	-36.73	peak
4	2052.5000	42.47	-2.45	40.02	74.00	-33.98	peak
5	2284.2500	42.36	-1.94	40.42	74.00	-33.58	peak
6	2517.7500	41.70	-0.34	41.36	74.00	-32.64	peak

- Note:
1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. 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.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. 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
GFSK	LCH	Vertical	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1597.7500	43.58	-5.13	38.45	74.00	-35.55	peak
2	1797.2500	44.43	-3.82	40.61	74.00	-33.39	peak
3	2131.2500	45.95	-2.34	43.61	74.00	-30.39	peak
4	2337.5000	47.24	-1.81	45.43	74.00	-28.57	peak
5	2609.5000	44.16	-0.32	43.84	74.00	-30.16	peak
6	2770.7500	43.35	-0.21	43.14	74.00	-30.86	peak

- Note:
1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. 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.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. 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
GFSK	MCH	Horizontal	PASS

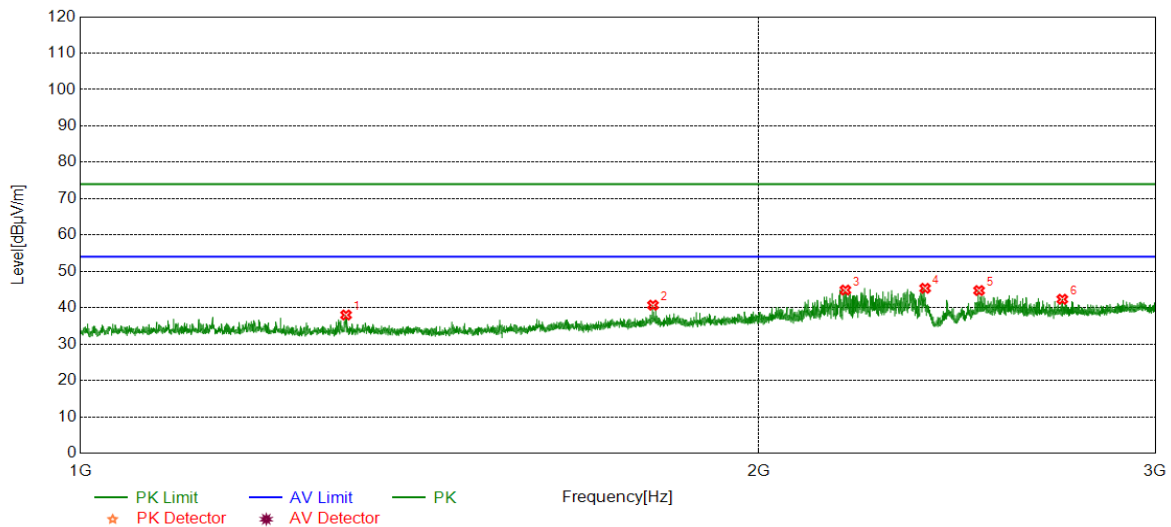


No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1230.2500	41.64	-5.66	35.98	74.00	-38.02	peak
2	1396.7500	42.04	-5.70	36.34	74.00	-37.66	peak
3	1707.2500	42.99	-4.58	38.41	74.00	-35.59	peak
4	1932.2500	41.31	-2.96	38.35	74.00	-35.65	peak
5	2181.7500	42.65	-2.33	40.32	74.00	-33.68	peak
6	2558.0000	42.10	-0.98	41.12	74.00	-32.88	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. 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.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. 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
GFSK	MCH	Vertical	PASS

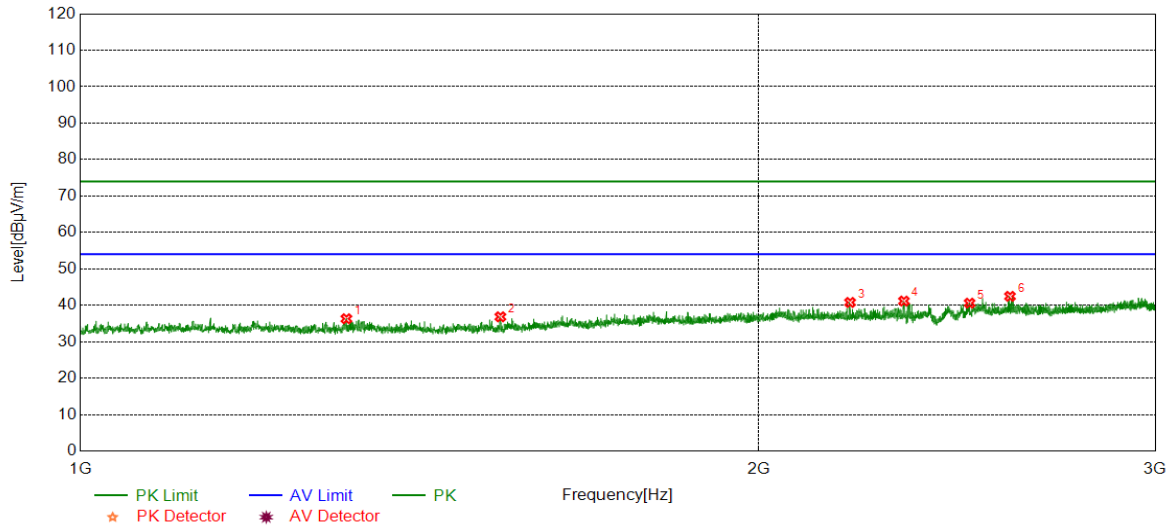


No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1312.0000	43.41	-5.41	38.00	74.00	-36.00	peak
2	1795.5000	44.50	-3.80	40.70	74.00	-33.30	peak
3	2185.7500	47.19	-2.33	44.86	74.00	-29.14	peak
4	2371.2500	46.46	-1.12	45.34	74.00	-28.66	peak
5	2505.7500	45.14	-0.41	44.73	74.00	-29.27	peak
6	2728.2500	42.80	-0.47	42.33	74.00	-31.67	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. 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.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. 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
GFSK	HCH	Horizontal	PASS

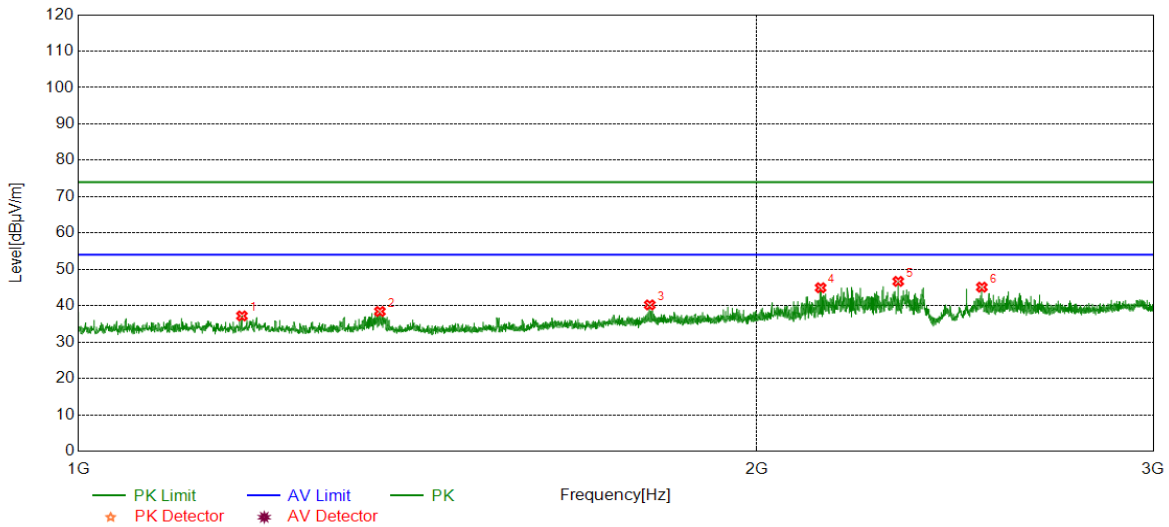


No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1312.5000	41.73	-5.42	36.31	74.00	-37.69	peak
2	1536.2500	42.59	-5.75	36.84	74.00	-37.16	peak
3	2196.2500	43.11	-2.33	40.78	74.00	-33.22	peak
4	2320.5000	42.83	-1.67	41.16	74.00	-32.84	peak
5	2481.7500	41.14	-0.55	40.59	74.00	-33.41	peak
6	2586.2500	43.31	-0.85	42.46	74.00	-31.54	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. 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.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. 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
GFSK	HCH	Vertical	PASS

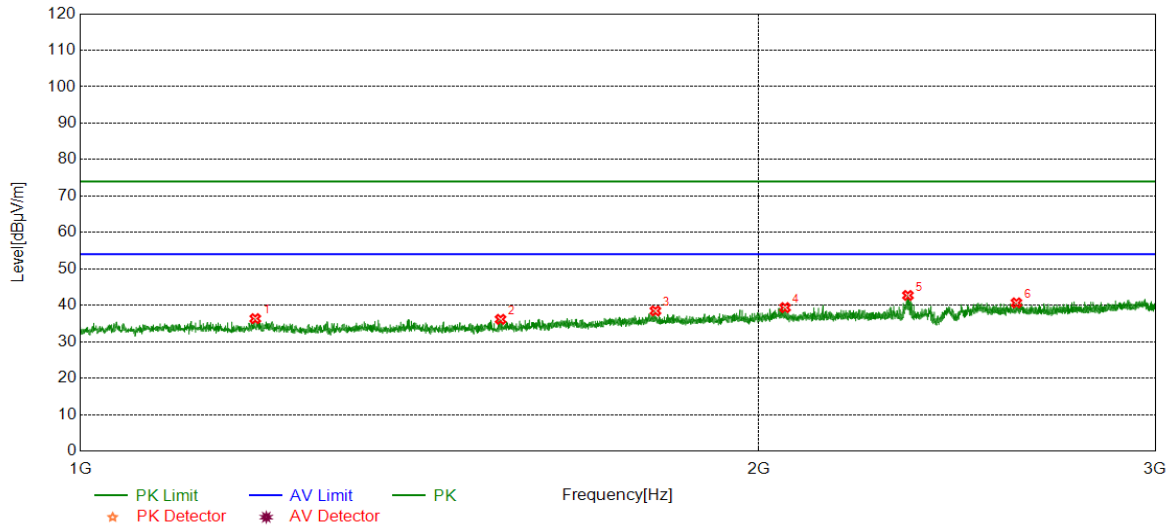


No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1182.0000	42.86	-5.66	37.20	74.00	-36.80	peak
2	1361.0000	44.11	-5.69	38.42	74.00	-35.58	peak
3	1793.2500	44.00	-3.77	40.23	74.00	-33.77	peak
4	2135.5000	47.30	-2.36	44.94	74.00	-29.06	peak
5	2311.7500	48.34	-1.65	46.69	74.00	-27.31	peak
6	2518.0000	45.44	-0.34	45.10	74.00	-28.90	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. 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.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. 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
8DPSK	LCH	Horizontal	PASS

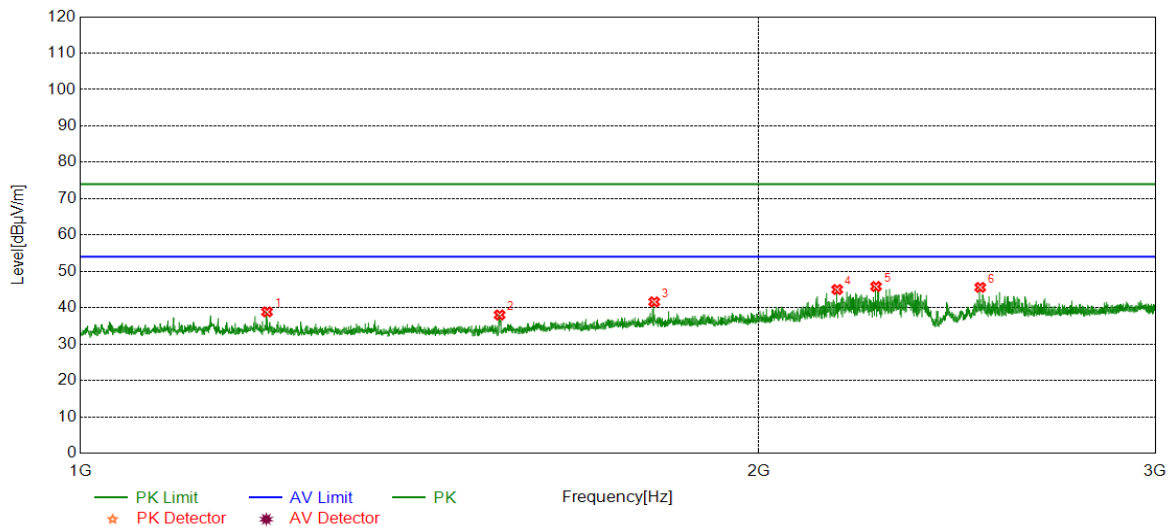


No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1195.7500	41.90	-5.56	36.34	74.00	-37.66	peak
2	1536.5000	41.90	-5.75	36.15	74.00	-37.85	peak
3	1800.0000	42.32	-3.85	38.47	74.00	-35.53	peak
4	2055.0000	41.87	-2.51	39.36	74.00	-34.64	peak
5	2330.0000	44.53	-1.82	42.71	74.00	-31.29	peak
6	2603.2500	41.25	-0.58	40.67	74.00	-33.33	peak

- Note:
1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. 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.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. 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
8DPSK	LCH	Vertical	PASS

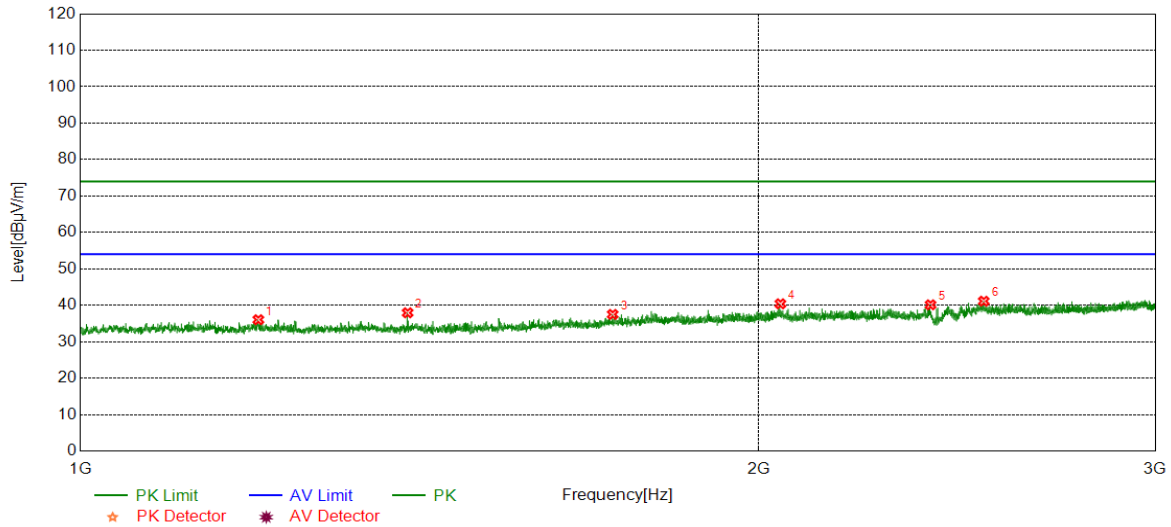


No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1210.2500	44.19	-5.32	38.87	74.00	-35.13	peak
2	1535.0000	43.77	-5.76	38.01	74.00	-35.99	peak
3	1797.7500	45.43	-3.82	41.61	74.00	-32.39	peak
4	2167.5000	47.37	-2.37	45.00	74.00	-29.00	peak
5	2255.2500	47.92	-2.09	45.83	74.00	-28.17	peak
6	2508.7500	45.98	-0.39	45.59	74.00	-28.41	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. 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.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. 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
8DPSK	MCH	Horizontal	PASS

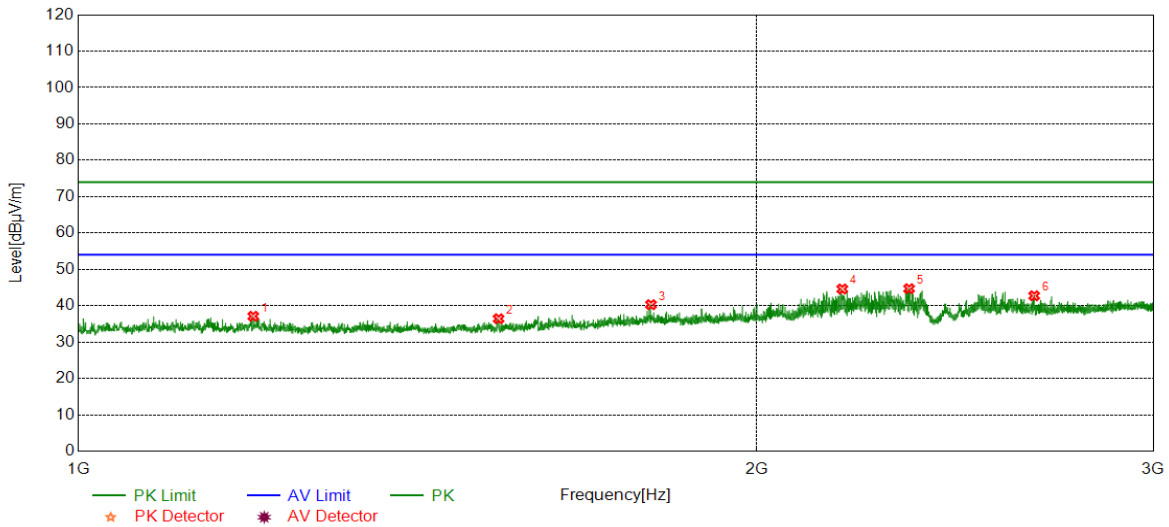


No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1199.5000	41.61	-5.56	36.05	74.00	-37.95	peak
2	1397.2500	43.63	-5.69	37.94	74.00	-36.06	peak
3	1723.0000	41.84	-4.34	37.50	74.00	-36.50	peak
4	2045.2500	42.80	-2.39	40.41	74.00	-33.59	peak
5	2384.5000	41.19	-1.05	40.14	74.00	-33.86	peak
6	2517.7500	41.47	-0.34	41.13	74.00	-32.87	peak

- Note:
1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. 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.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. 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
8DPSK	MCH	Vertical	PASS

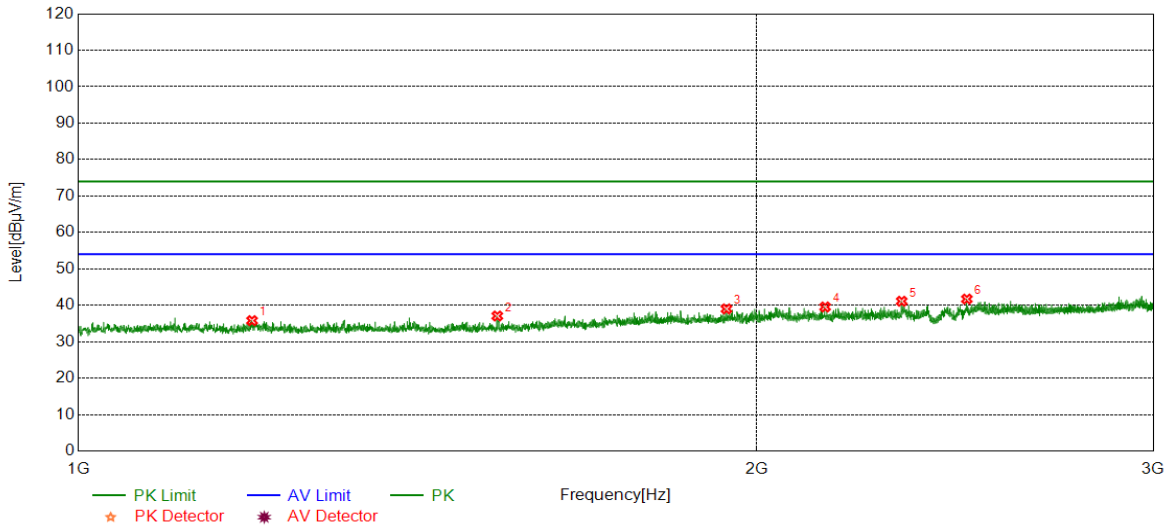


No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1195.7500	42.66	-5.56	37.10	74.00	-36.90	peak
2	1536.5000	42.17	-5.75	36.42	74.00	-37.58	peak
3	1795.5000	44.09	-3.80	40.29	74.00	-33.71	peak
4	2183.2500	46.93	-2.33	44.60	74.00	-29.40	peak
5	2337.5000	46.50	-1.81	44.69	74.00	-29.31	peak
6	2656.2500	43.45	-0.72	42.73	74.00	-31.27	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. 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.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. 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
8DPSK	HCH	Horizontal	PASS

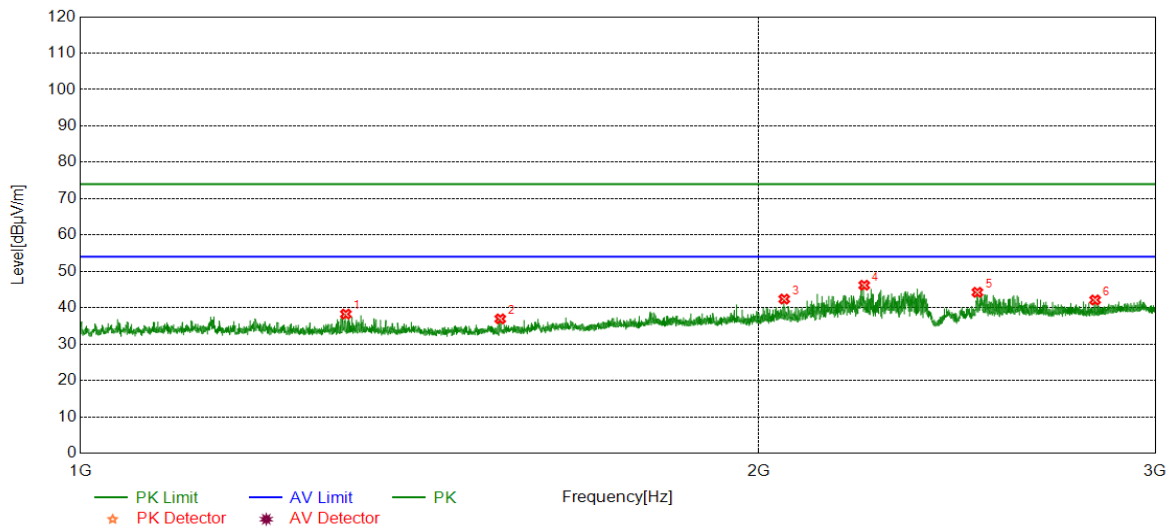


No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1194.2500	41.36	-5.57	35.79	74.00	-38.21	peak
2	1534.5000	42.83	-5.76	37.07	74.00	-36.93	peak
3	1939.5000	42.12	-3.11	39.01	74.00	-34.99	peak
4	2145.2500	41.91	-2.37	39.54	74.00	-34.46	peak
5	2320.0000	42.77	-1.66	41.11	74.00	-32.89	peak
6	2479.7500	42.28	-0.56	41.72	74.00	-32.28	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. 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.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. 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
8DPSK	HCH	Vertical	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1311.7500	43.65	-5.40	38.25	74.00	-35.75	peak
2	1536.0000	42.68	-5.75	36.93	74.00	-37.07	peak
3	2053.2500	44.84	-2.46	42.38	74.00	-31.62	peak
4	2228.2500	48.37	-2.18	46.19	74.00	-27.81	peak
5	2501.5000	44.68	-0.44	44.24	74.00	-29.76	peak
6	2821.2500	42.30	-0.17	42.13	74.00	-31.87	peak

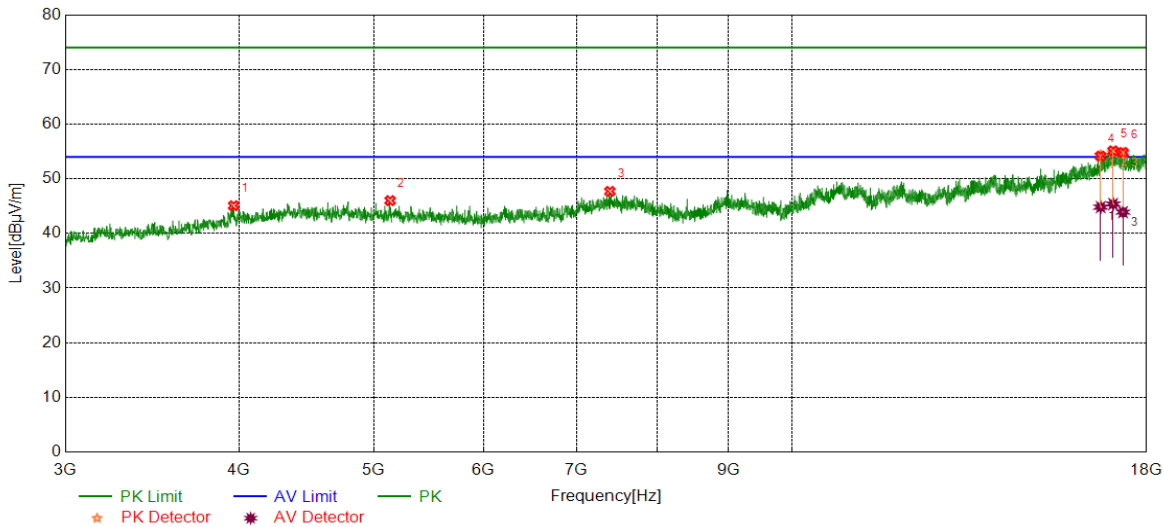
- Note:
1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. For below 3GHz part, Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



Part II: 3GHz~18GHz

HARMONICS AND SPURIOUS EMISSIONS

Test Mode	Channel	Polarization	Verdict
GFSK	LCH	Horizontal	PASS

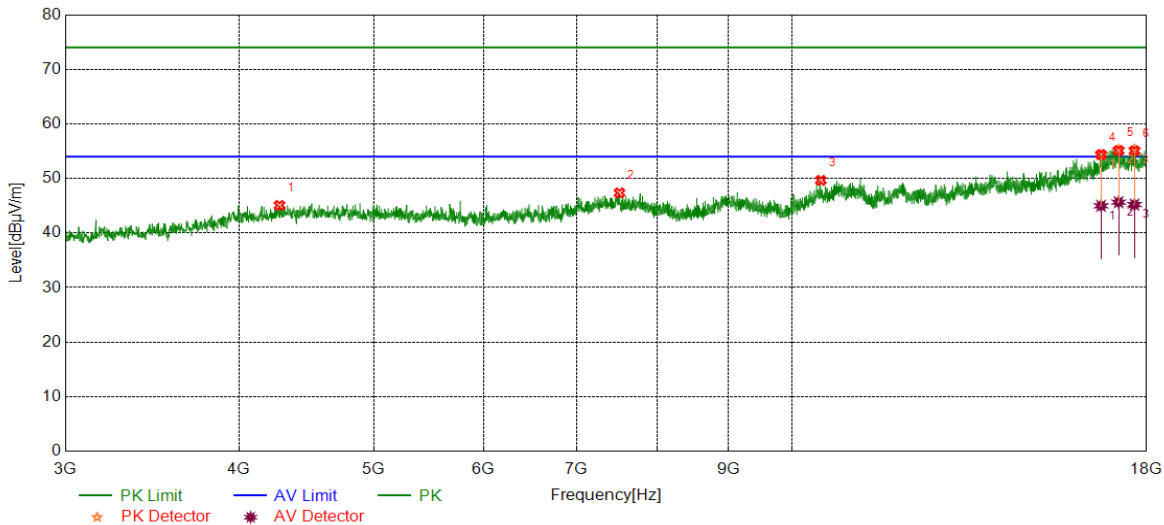


No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	3965.7457	40.65	4.42	45.07	74.00	-28.93	peak
2	5139.6425	40.48	5.53	46.01	74.00	-27.99	peak
3	7397.4247	39.04	8.66	47.70	74.00	-26.30	peak
4	16679.8350	36.36	17.79	54.15	74.00	-19.85	peak
		27.03	17.79	44.82	54.00	-9.18	average
5	17028.6286	36.17	18.94	55.11	74.00	-18.89	peak
		26.44	18.94	45.38	54.00	-8.62	average
6	17309.9137	37.34	17.48	54.82	74.00	-19.18	peak
		26.42	17.48	43.90	54.00	-10.10	average

- Note:
1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. For above 3GHz part, Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. 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
GFSK	LCH	Vertical	PASS

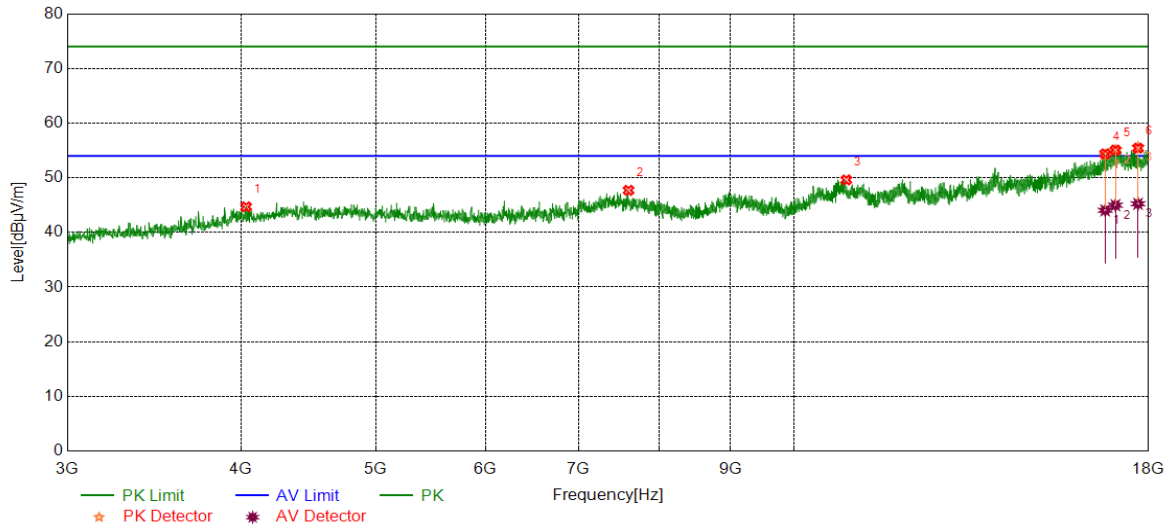


No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	4278.9099	40.03	5.03	45.06	74.00	-28.94	peak
2	7515.5644	38.65	8.70	47.35	74.00	-26.65	peak
3	10491.5614	37.99	11.66	49.65	74.00	-24.35	peak
4	16691.0864	36.21	18.17	54.38	74.00	-19.62	peak
		26.81	18.17	44.98	54.00	-9.02	average
5	17184.2730	37.02	18.10	55.12	74.00	-18.88	peak
		27.54	18.10	45.64	54.00	-8.36	average
6	17641.8302	37.49	17.58	55.07	74.00	-18.93	peak
		27.63	17.58	45.21	54.00	-8.79	average

- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. For above 3GHz part, Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. 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
GFSK	MCH	Horizontal	PASS

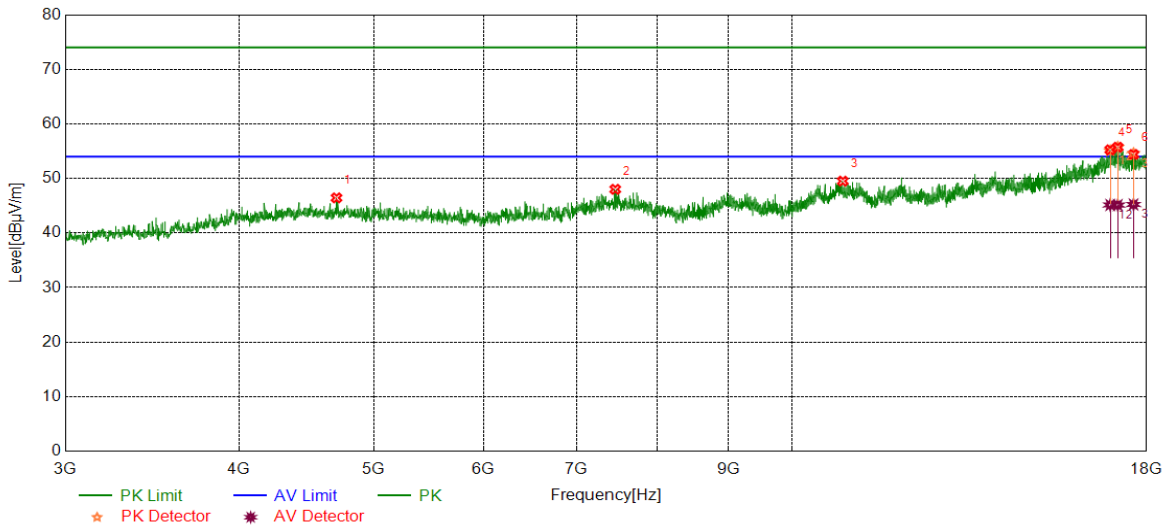


No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	4035.1294	40.38	4.31	44.69	74.00	-29.31	peak
2	7603.7005	39.05	8.65	47.70	74.00	-26.30	peak
3	10907.8635	37.44	12.17	49.61	74.00	-24.39	peak
4	16749.2187	36.79	17.59	54.38	74.00	-19.62	peak
		26.45	17.59	44.04	54.00	-9.96	average
5	17038.0048	36.15	18.92	55.07	74.00	-18.93	peak
		26.06	18.92	44.98	54.00	-9.02	average
6	17686.8359	37.46	17.96	55.42	74.00	-18.58	peak
		27.28	17.96	45.24	54.00	-8.76	average

- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. For above 3GHz part, Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. 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
GFSK	MCH	Vertical	PASS

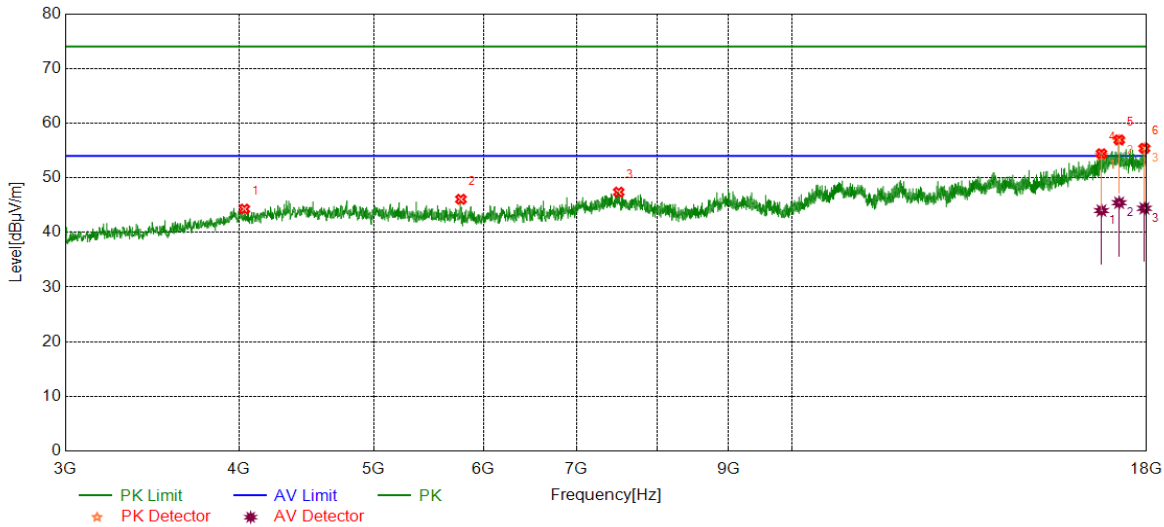


No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	4702.7128	40.83	5.61	46.44	74.00	-27.56	peak
2	7463.0579	39.36	8.65	48.01	74.00	-25.99	peak
3	10879.7350	37.27	12.24	49.51	74.00	-24.49	peak
4	16946.1183	38.85	18.39	55.24	74.00	-18.76	peak
		26.75	18.39	45.14	54.00	-8.86	average
5	17159.8950	37.49	18.23	55.72	74.00	-18.28	peak
		26.89	18.23	45.12	54.00	-8.88	average
6	17613.7017	36.62	17.78	54.40	74.00	-19.60	peak
		27.45	17.78	45.23	54.00	-8.77	average

- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. For above 3GHz part, Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. 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
GFSK	HCH	Horizontal	PASS

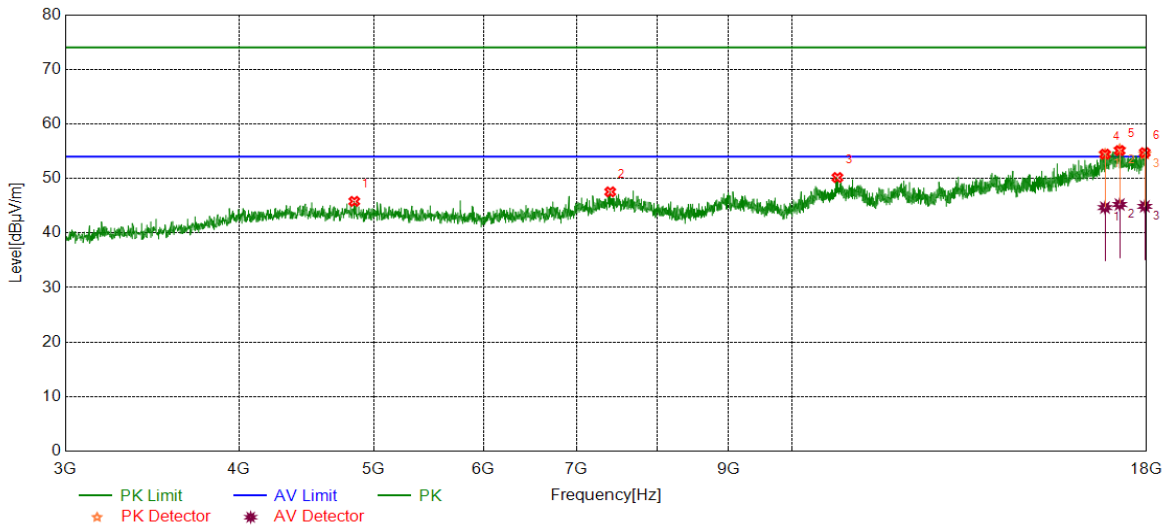


No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	4037.0046	40.01	4.27	44.28	74.00	-29.72	peak
2	5779.0974	40.77	5.30	46.07	74.00	-27.93	peak
3	7506.1883	38.77	8.61	47.38	74.00	-26.62	peak
4	16702.3378	36.71	17.69	54.40	74.00	-19.60	peak
		26.31	17.69	44.00	54.00	-10.00	average
5	17199.2749	38.59	18.35	56.94	74.00	-17.06	peak
		27.08	18.35	45.43	54.00	-8.57	average
6	17934.3668	37.20	18.20	55.40	74.00	-18.60	peak
		26.21	18.20	44.41	54.00	-9.59	average

- Note:
1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. For above 3GHz part, Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. 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
GFSK	HCH	Vertical	PASS

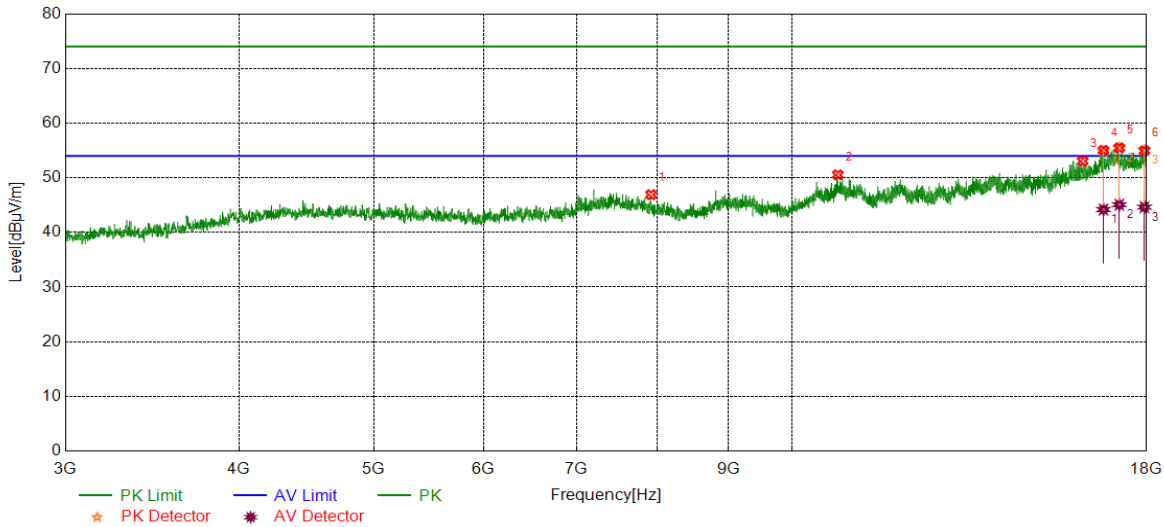


No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	4843.3554	40.35	5.45	45.80	74.00	-28.20	peak
2	7401.1751	38.86	8.68	47.54	74.00	-26.46	peak
3	10784.0980	38.04	12.13	50.17	74.00	-23.83	peak
4	16799.8500	36.91	17.54	54.45	74.00	-19.55	peak
		27.12	17.54	44.66	54.00	-9.34	average
5	17214.2768	37.37	17.74	55.11	74.00	-18.89	peak
		27.49	17.74	45.23	54.00	-8.77	average
6	17945.6182	36.28	18.44	54.72	74.00	-19.28	peak
		26.44	18.44	44.88	54.00	-9.12	average

- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. For above 3GHz part, Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. 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
8DPSK	LCH	Horizontal	PASS

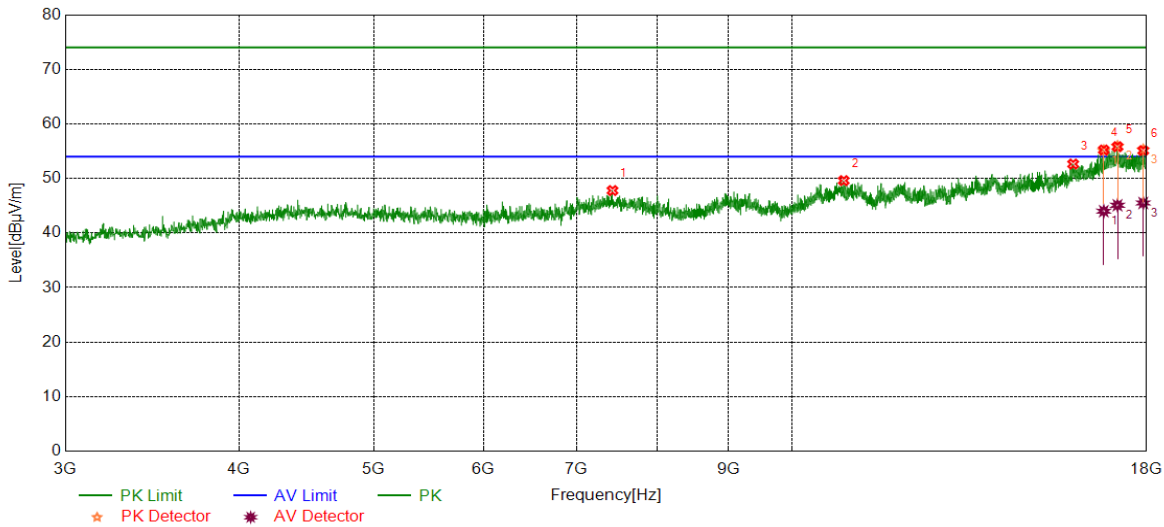


No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	7918.7398	39.13	7.78	46.91	74.00	-27.09	peak
2	10791.5990	38.45	12.09	50.54	74.00	-23.46	peak
3	16192.2740	36.48	16.57	53.05	74.00	-20.95	peak
4	16758.5948	37.83	17.20	55.03	74.00	-18.97	peak
		26.99	17.20	44.19	54.00	-9.81	average
5	17203.0254	37.29	18.20	55.49	74.00	-18.51	peak
		26.87	18.20	45.07	54.00	-8.93	average
6	17934.3668	36.76	18.20	54.96	74.00	-19.04	peak
		26.42	18.20	44.62	54.00	-9.38	average

- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. For above 3GHz part, Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. 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
8DPSK	LCH	Vertical	PASS

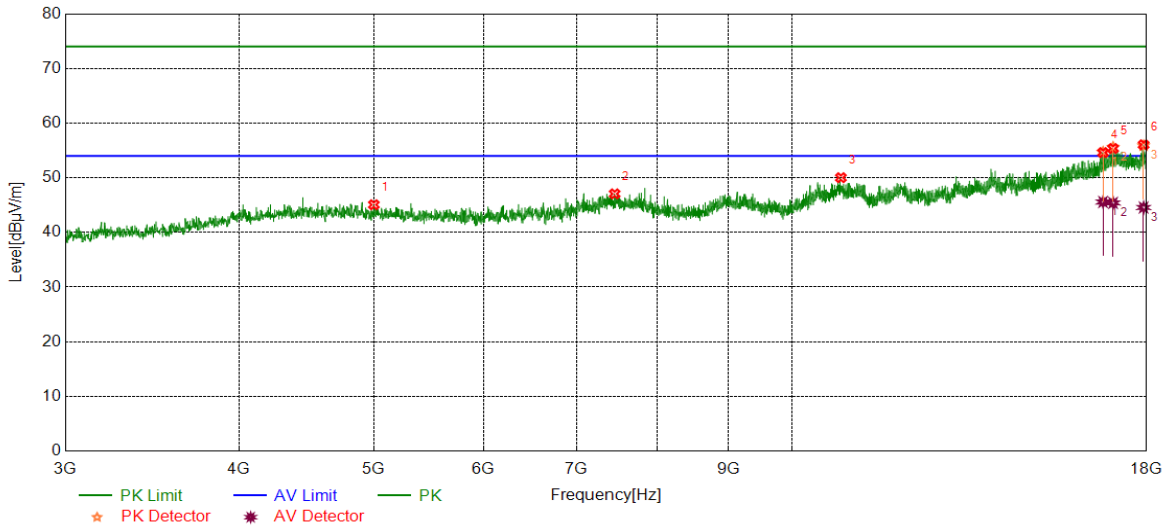


No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	7429.3037	39.24	8.54	47.78	74.00	-26.22	peak
2	10896.6121	37.36	12.24	49.60	74.00	-24.40	peak
3	15937.2422	36.70	15.94	52.64	74.00	-21.36	peak
4	16766.0958	37.83	17.39	55.22	74.00	-18.78	peak
		26.61	17.39	44.00	54.00	-10.00	average
5	17152.3940	37.56	18.26	55.82	74.00	-18.18	peak
		26.82	18.26	45.08	54.00	-8.92	average
6	17898.7373	36.68	18.42	55.10	74.00	-18.90	peak
		27.08	18.42	45.50	54.00	-8.50	average

- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. For above 3GHz part, Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. 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
8DPSK	MCH	Horizontal	PASS

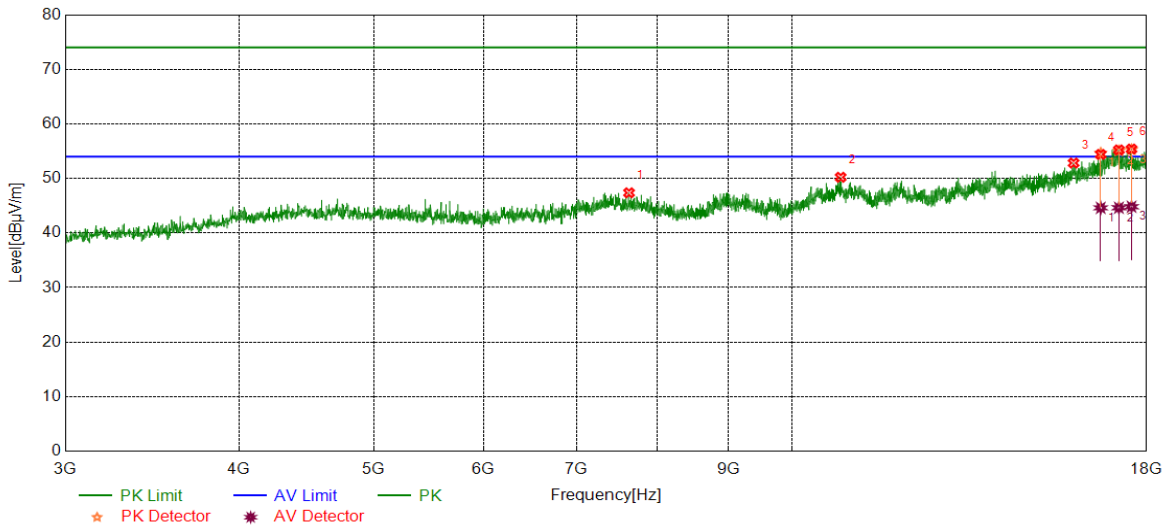


No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	5002.7503	39.76	5.31	45.07	74.00	-28.93	peak
2	7455.5569	38.44	8.62	47.06	74.00	-26.94	peak
3	10845.9807	37.70	12.32	50.02	74.00	-23.98	peak
4	16745.4682	37.26	17.35	54.61	74.00	-19.39	peak
		28.22	17.35	45.57	54.00	-8.43	average
5	17026.7533	36.54	18.81	55.35	74.00	-18.65	peak
		26.60	18.81	45.41	54.00	-8.59	average
6	17909.9887	37.76	18.28	56.04	74.00	-17.96	peak
		26.28	18.28	44.56	54.00	-9.44	average

- Note:
1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. For above 3GHz part, Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. 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
8DPSK	MCH	Vertical	PASS

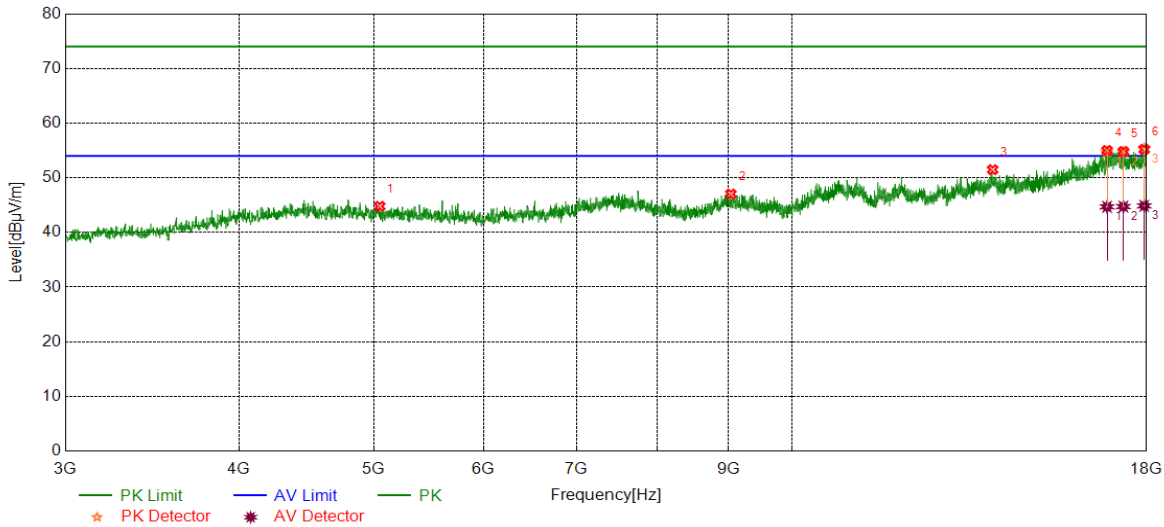


No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	7635.5794	38.97	8.40	47.37	74.00	-26.63	peak
2	10842.2303	38.01	12.21	50.22	74.00	-23.78	peak
3	15948.4936	36.76	16.07	52.83	74.00	-21.17	peak
4	16681.7102	36.54	17.86	54.40	74.00	-19.60	peak
		26.75	17.86	44.61	54.00	-9.39	average
5	17191.7740	37.02	18.21	55.23	74.00	-18.77	peak
		26.42	18.21	44.63	54.00	-9.37	average
6	17555.5694	37.41	17.98	55.39	74.00	-18.61	peak
		26.84	17.98	44.82	54.00	-9.18	average

- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. For above 3GHz part, Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. 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
8DPSK	HCH	Horizontal	PASS

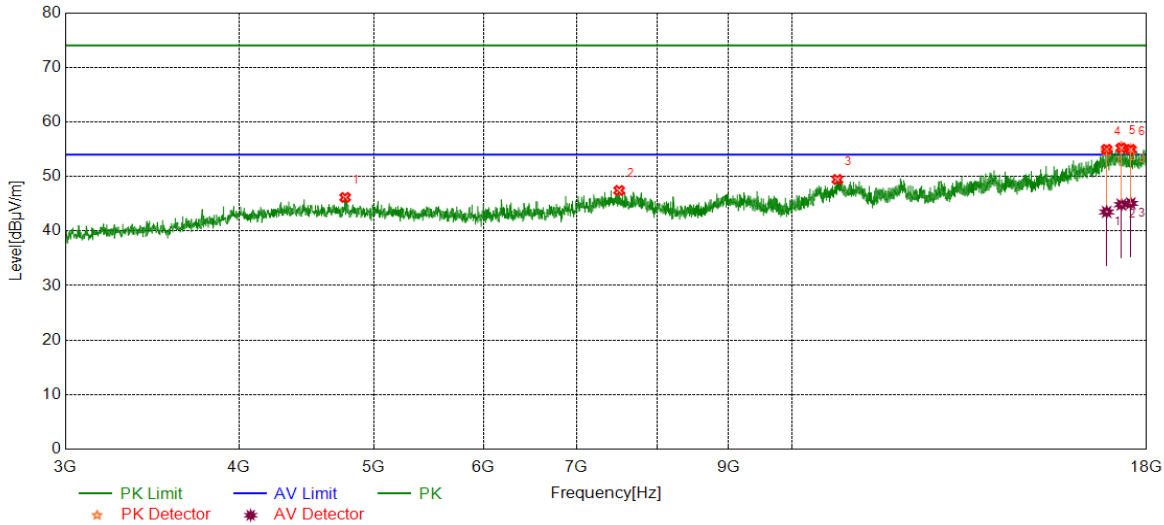


No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	5051.5064	39.40	5.38	44.78	74.00	-29.22	peak
2	9038.2548	37.94	9.09	47.03	74.00	-26.97	peak
3	13947.6185	37.21	14.27	51.48	74.00	-22.52	peak
4	16857.9822	37.12	17.87	54.99	74.00	-19.01	peak
		26.82	17.87	44.69	54.00	-9.31	average
5	17319.2899	37.01	17.80	54.81	74.00	-19.19	peak
		26.93	17.80	44.73	54.00	-9.27	average
6	17928.7411	37.10	18.10	55.20	74.00	-18.80	peak
		26.76	18.10	44.86	54.00	-9.14	average

- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. For above 3GHz part, Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. 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
8DPSK	HCH	Vertical	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	4770.2213	40.75	5.40	46.15	74.00	-27.85	peak
2	7511.8140	38.79	8.64	47.43	74.00	-26.57	peak
3	10782.2228	37.30	12.15	49.45	74.00	-24.55	peak
4	16846.7308	37.66	17.31	54.97	74.00	-19.03	peak
		26.18	17.31	43.49	54.00	-10.51	average
5	17261.1576	37.72	17.51	55.23	74.00	-18.77	peak
		27.32	17.51	44.83	54.00	-9.17	average
6	17533.0666	37.21	17.75	54.96	74.00	-19.04	peak
		27.31	17.75	45.06	54.00	-8.94	average

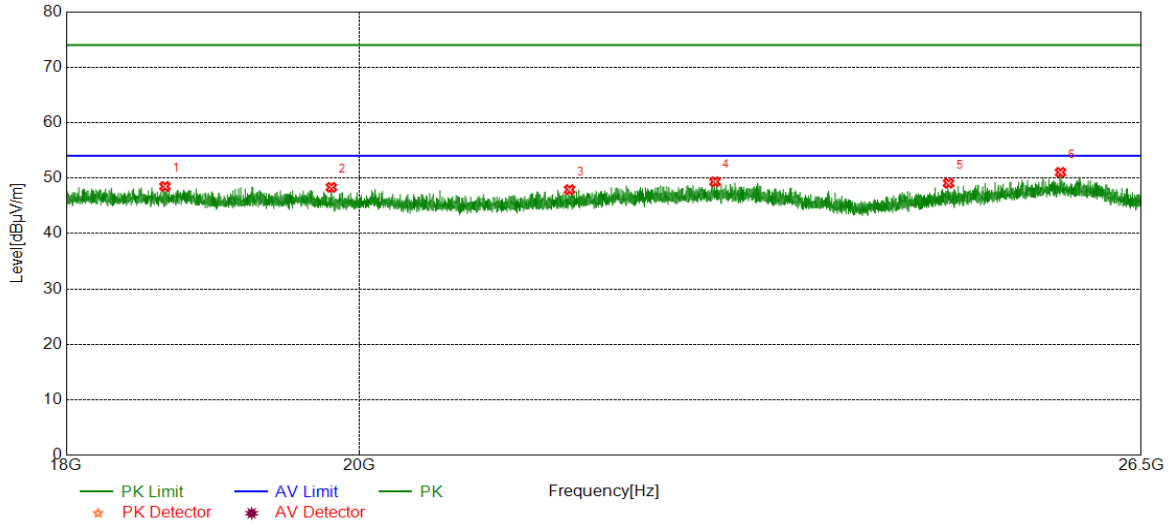
- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. For above 3GHz part, Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



Part III: 18GHz~26.5GHz

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

Test Mode	Channel	Polarization	Verdict
8DPSK	HCH	Horizontal	PASS

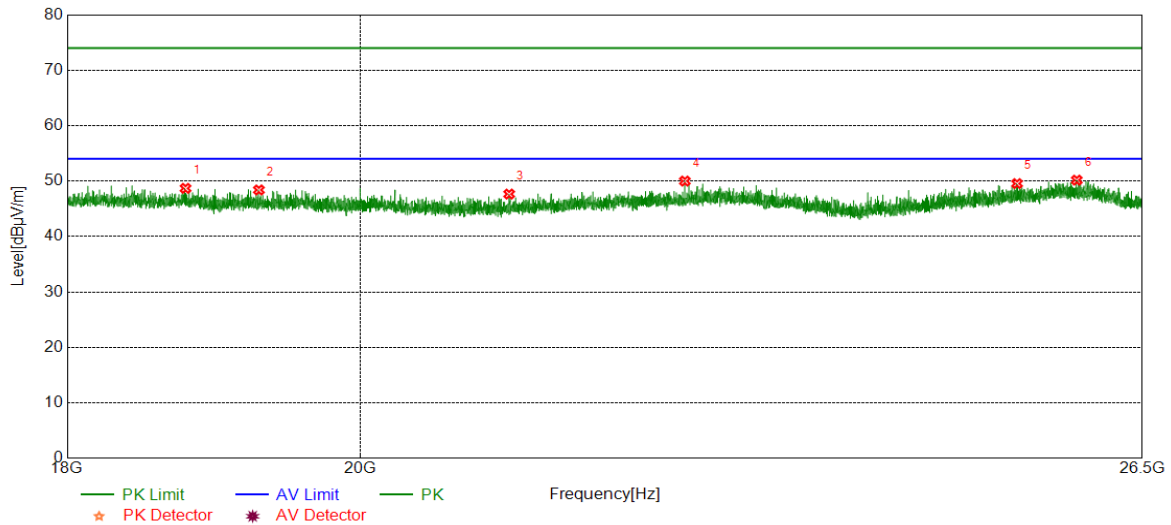


No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	18651.1651	49.47	-0.98	48.49	74.00	-25.51	peak
2	19802.1802	48.95	-0.62	48.33	74.00	-25.67	peak
3	21574.6075	48.33	-0.41	47.92	74.00	-26.08	peak
4	22733.2733	48.31	1.02	49.33	74.00	-24.67	peak
5	24726.7227	49.34	-0.26	49.08	74.00	-24.92	peak
6	25743.4243	49.78	1.25	51.03	74.00	-22.97	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 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
8DPSK	HCH	Vertical	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	18782.9283	49.73	-1.04	48.69	74.00	-25.31	peak
2	19285.3285	49.29	-0.89	48.40	74.00	-25.60	peak
3	21102.8103	48.57	-0.91	47.66	74.00	-26.34	peak
4	22479.9480	49.23	0.77	50.00	74.00	-24.00	peak
5	25334.5335	48.98	0.57	49.55	74.00	-24.45	peak
6	25884.5385	48.69	1.48	50.17	74.00	-23.83	peak

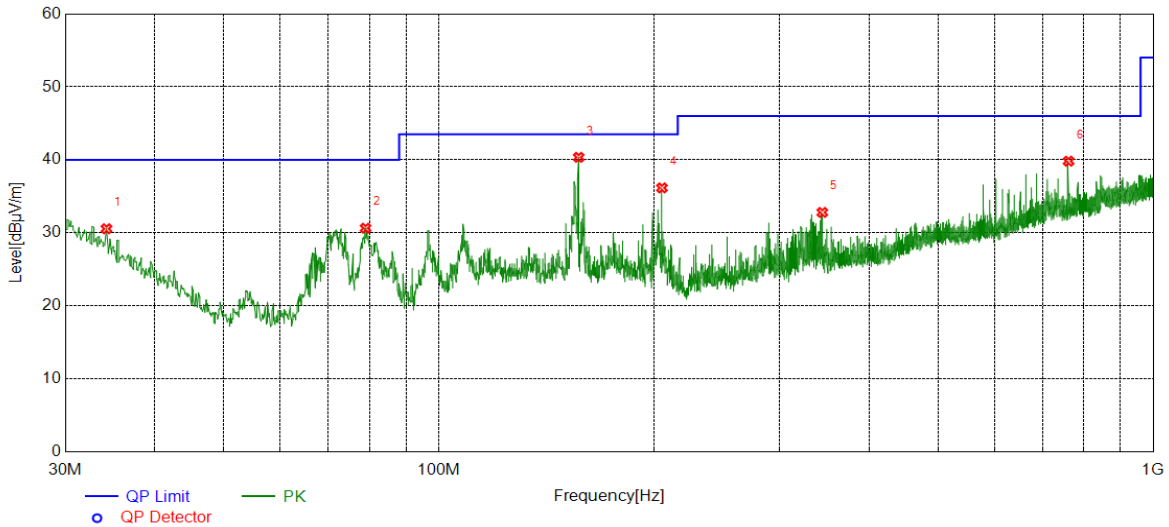
- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



Part IV: 30MHz~1GHz

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

Test Mode	Channel	Polarization	Verdict
8DPSK	HCH	Horizontal	PASS

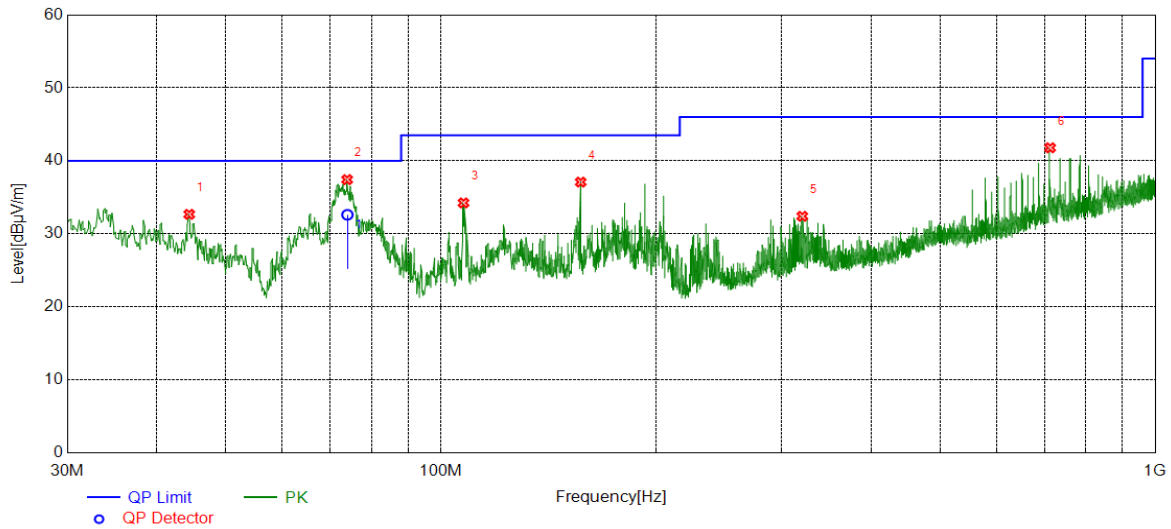


No.	Frequency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	34.2684	6.23	24.33	30.56	40.00	-9.44	peak
2	78.9899	16.25	14.39	30.64	40.00	-9.36	peak
3	156.9857	21.37	18.98	40.35	43.50	-3.15	peak
4	205.2965	17.40	18.76	36.16	43.50	-7.34	peak
5	344.2144	11.24	21.56	32.80	46.00	-13.20	peak
6	761.2591	10.50	29.32	39.82	46.00	-6.18	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.



Test Mode	Channel	Polarization	Verdict
8DPSK	HCH	Vertical	PASS



No.	Frequency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	44.4544	14.74	17.94	32.68	40.00	-7.32	peak
2	73.9454	22.81	14.62	37.43	40.00	-2.57	peak
		18.00	14.62	32.62	40.00	-7.38	QP
3	107.6078	16.03	18.21	34.24	43.50	-9.26	peak
4	156.9857	18.11	18.98	37.09	43.50	-6.41	peak
5	320.6411	11.42	20.99	32.41	46.00	-13.59	peak
6	712.7543	13.07	28.72	41.79	46.00	-4.21	peak

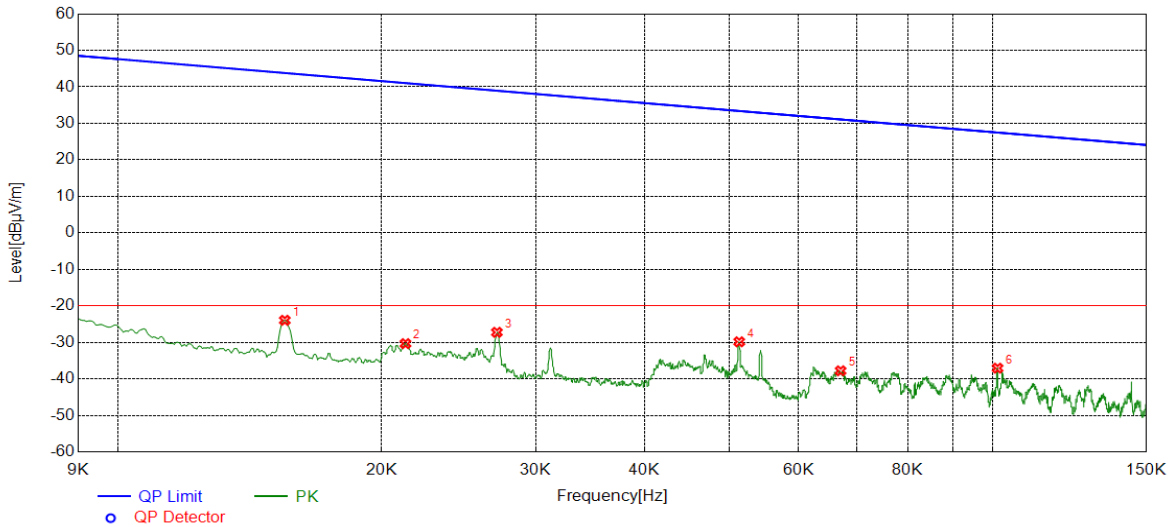
- Note: 1. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
 2. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.
 3. Measurement = Reading Level + Correct Factor.



Part V: 9KHz~30MHz

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

Test Mode	Channel	Frequency Range	Verdict
8DPSK	HCH	9KHz~150KHz	PASS

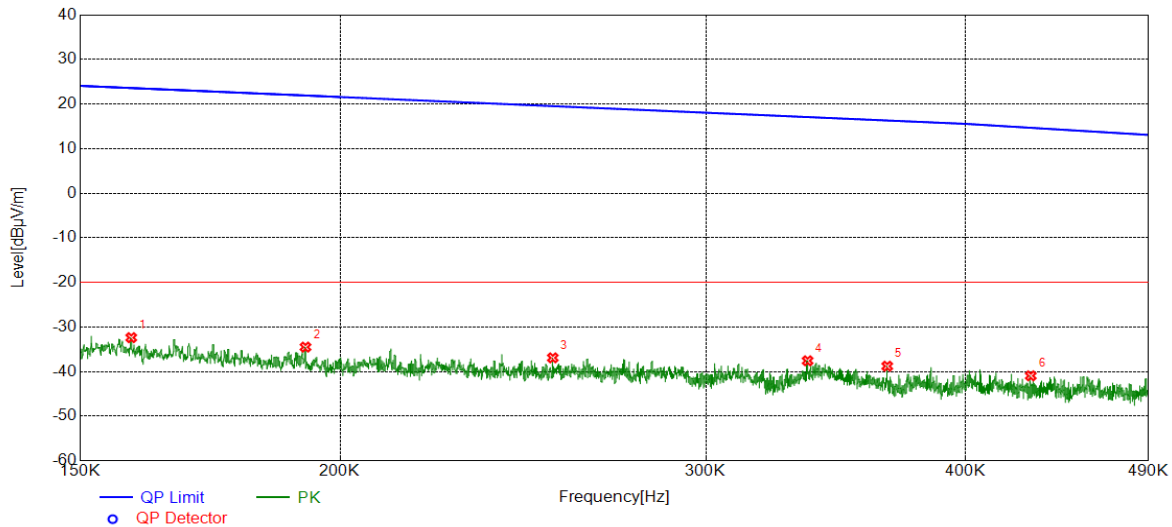


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	FCC Result (dBuV/m)	FCC Limit (dBuV/m)	ISED Result (dBuA/m)	ISED Limit (dBuA/m)	Margin (dB)	Remark
1	0.0155	37.03	-60.98	-23.95	43.80	-75.45	-7.70	-67.75	peak
2	0.0213	30.52	-60.86	-30.34	41.03	-81.84	-10.47	-71.37	peak
3	0.0271	33.64	-60.89	-27.25	38.93	-78.75	-12.57	-66.18	peak
4	0.0513	31.22	-61.06	-29.84	33.40	-81.34	-18.10	-63.24	peak
5	0.0670	23.51	-61.30	-37.79	31.08	-89.29	-20.42	-68.87	peak
6	0.1013	23.67	-60.74	-37.07	27.49	-88.57	-24.01	-64.56	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



Test Mode	Channel	Frequency Range	Verdict
8DPSK	HCH	150KHz~490Hz	PASS

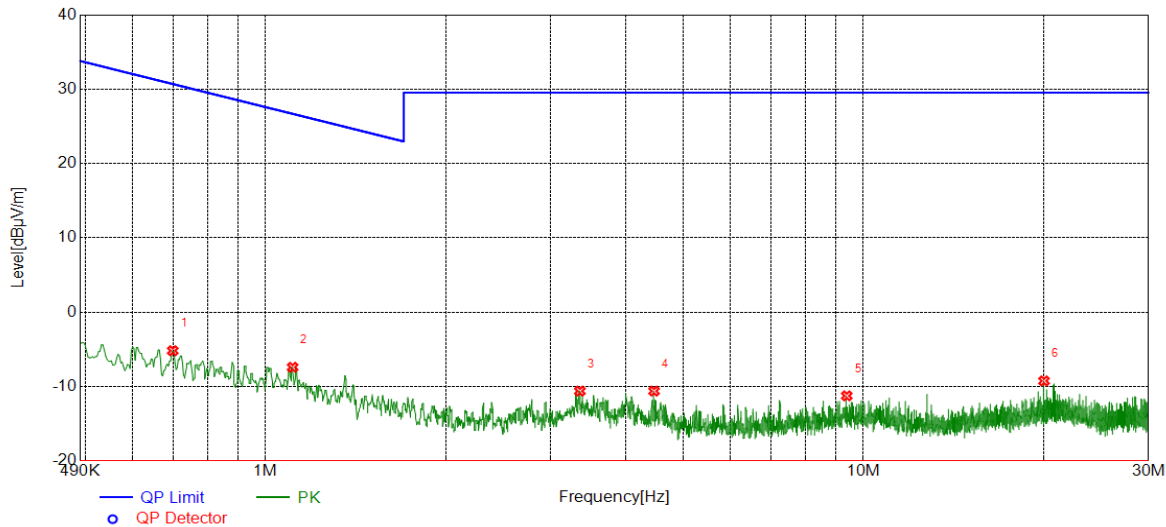


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	FCC Result (dBuV/m)	FCC Limit (dBuV/m)	ISED Result (dBuA/m)	ISED Limit (dBuA/m)	Margin (dB)	Remark
1	0.1587	28.89	-61.27	-32.38	23.59	-83.88	-27.91	-55.97	peak
2	0.1925	26.60	-61.10	-34.50	21.92	-86.00	-29.58	-56.42	peak
3	0.2532	23.89	-60.80	-36.91	19.53	-88.41	-31.97	-56.44	peak
4	0.3358	23.16	-60.73	-37.57	17.08	-89.07	-34.42	-54.65	peak
5	0.3668	21.93	-60.71	-38.78	16.31	-90.28	-35.19	-55.09	peak
6	0.4300	19.71	-60.65	-40.94	14.68	-92.44	-36.82	-55.62	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



Test Mode	Channel	Frequency Range	Verdict
8DPSK	HCH	490KHz~30MHz	PASS



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	FCC Result (dBuV/m)	FCC Limit (dBuV/m)	ISED Result (dBuA/m)	ISED Limit (dBuA/m)	Margin (dB)	Remark
1	0.6995	15.47	-20.66	-5.19	30.71	-56.69	-20.79	-35.90	peak
2	1.1098	12.93	-20.34	-7.41	26.70	-58.91	-24.80	-34.11	peak
3	3.3557	9.70	-20.32	-10.62	29.54	-62.12	-21.96	-40.16	peak
4	4.4654	9.51	-20.13	-10.62	29.54	-62.12	-21.96	-40.16	peak
5	9.3793	7.71	-18.97	-11.26	29.54	-62.76	-21.96	-40.80	peak
6	20.0512	8.08	-17.33	-9.25	29.54	-60.75	-21.96	-38.79	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

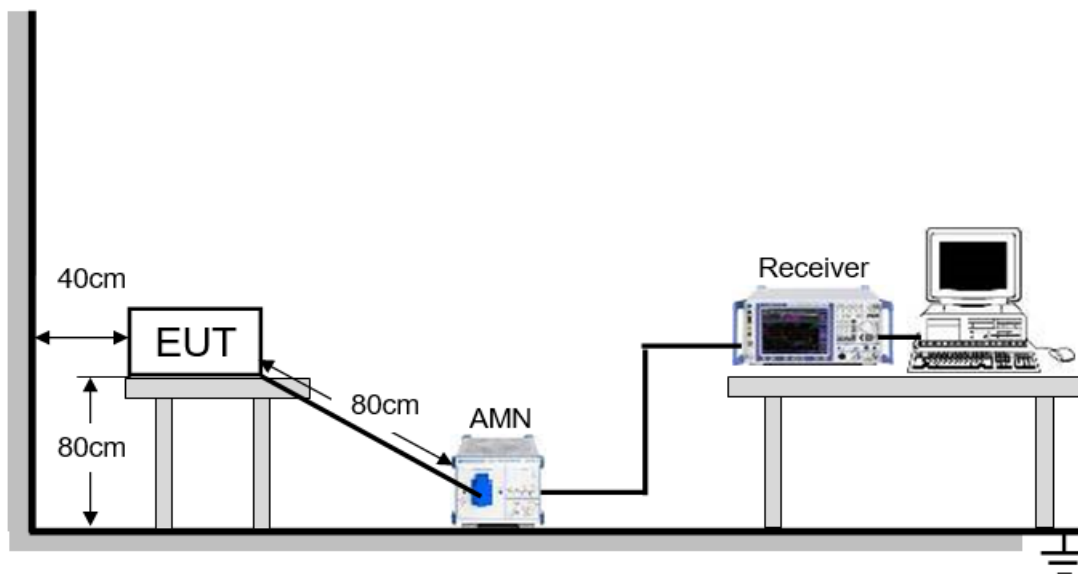
7.4. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

Please refer to FCC §15.207 (a) & RSS-GEN Clause 8.8

FREQUENCY (MHz)	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

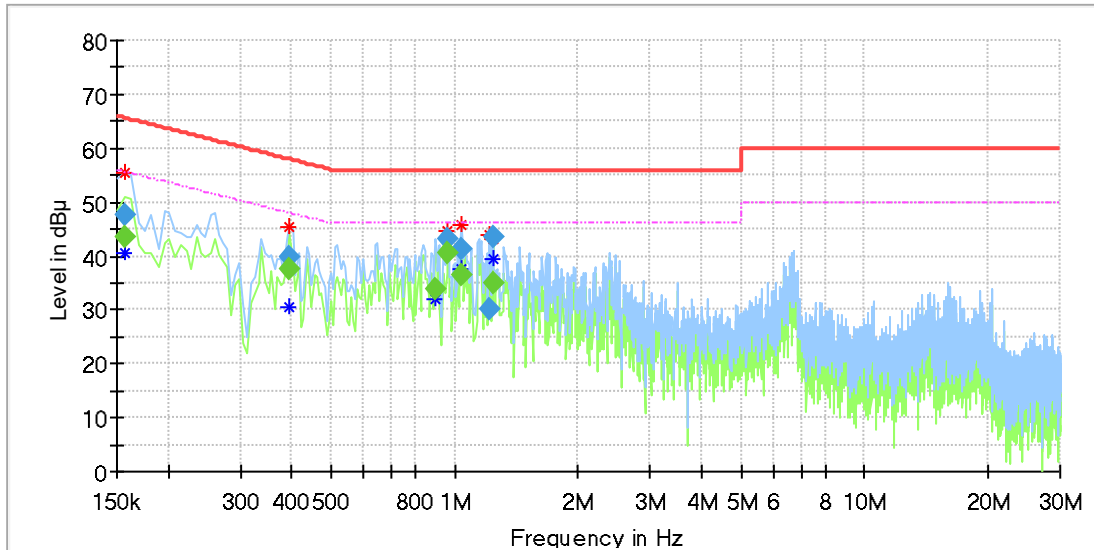


The EUT is put on a table of non-conducting material that is 80cm high. The vertical conducting wall of shielding is located 40cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI Measurement Receiver (R&S Test Receiver ESR3) 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.

TEST RESULTS (WORST CASE CONFIGURATION)

For L Line:

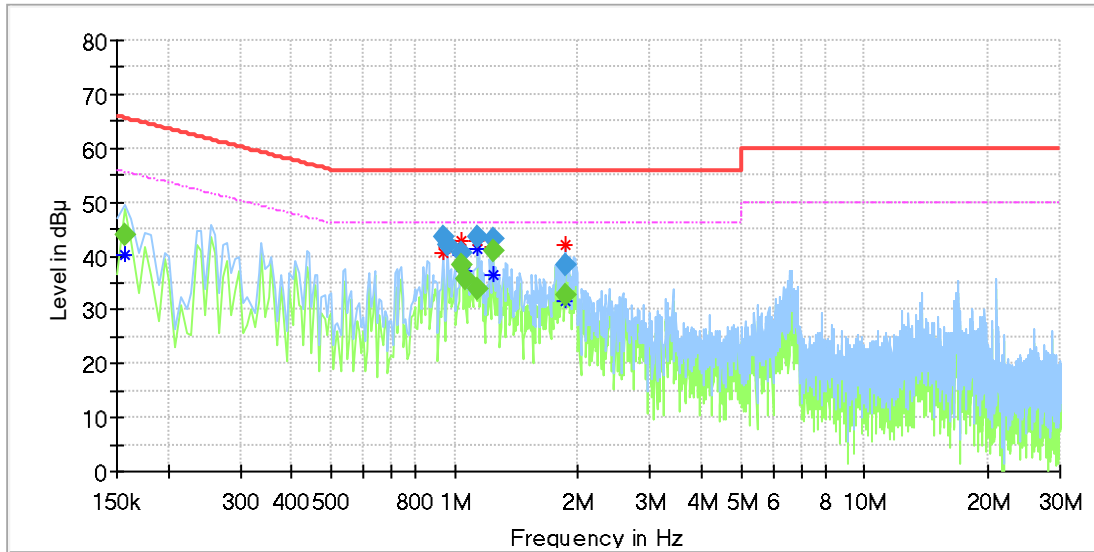


Final Result

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.156489	---	43.43	55.65	12.22	1000.0	9.000	L1	OFF	9.5
0.156489	47.55	---	65.65	18.09	1000.0	9.000	L1	OFF	9.5
0.396587	---	37.50	47.93	10.43	1000.0	9.000	L1	OFF	9.6
0.396587	39.72	---	57.93	18.20	1000.0	9.000	L1	OFF	9.6
0.896250	---	33.97	46.00	12.03	1000.0	9.000	L1	OFF	9.7
0.961141	43.27	---	56.00	12.73	1000.0	9.000	L1	OFF	9.7
0.961141	---	40.67	46.00	5.33	1000.0	9.000	L1	OFF	9.7
1.039011	---	36.54	46.00	9.46	1000.0	9.000	L1	OFF	9.7
1.039011	41.33	---	56.00	14.67	1000.0	9.000	L1	OFF	9.7
1.214217	30.20	---	56.00	25.80	1000.0	9.000	L1	OFF	9.4
1.240174	---	34.93	46.00	11.07	1000.0	9.000	L1	OFF	9.4
1.240174	43.37	---	56.00	12.63	1000.0	9.000	L1	OFF	9.4

- 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 HCH of 8DPSK which is the worst case, so only the worst case is included in this test report.

For N Line:



Final_Result

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.156489	---	43.91	55.65	11.74	1000.0	9.000	N	OFF	9.5
0.941674	43.61	---	56.00	12.39	1000.0	9.000	N	OFF	9.7
0.961141	42.23	---	56.00	13.77	1000.0	9.000	N	OFF	9.7
1.039011	---	38.36	46.00	7.64	1000.0	9.000	N	OFF	9.7
1.039011	40.49	---	56.00	15.51	1000.0	9.000	N	OFF	9.7
1.058478	---	35.71	46.00	10.29	1000.0	9.000	N	OFF	9.7
1.136348	43.69	---	56.00	12.31	1000.0	9.000	N	OFF	9.7
1.136348	---	33.90	46.00	12.10	1000.0	9.000	N	OFF	9.7
1.240174	43.02	---	56.00	12.98	1000.0	9.000	N	OFF	9.6
1.240174	---	40.78	46.00	5.22	1000.0	9.000	N	OFF	9.6
1.863131	---	32.76	46.00	13.24	1000.0	9.000	N	OFF	9.6
1.863131	38.46	---	56.00	17.54	1000.0	9.000	N	OFF	9.6

- 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 HCH of 8DPSK which is the worst case, so only the worst case is included in this test report.



8. 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 PCB antenna.

ANTENNA GAIN

The antenna gain of EUT is less than 6 dBi.

END OF REPORT