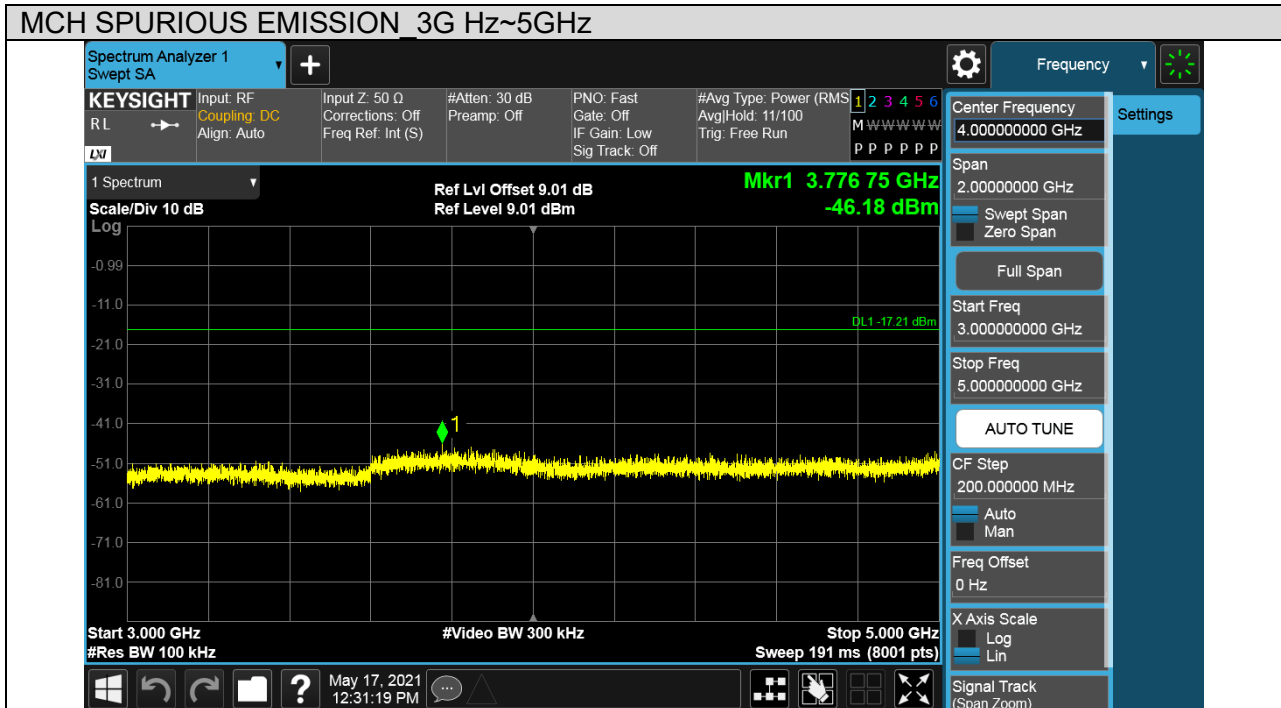
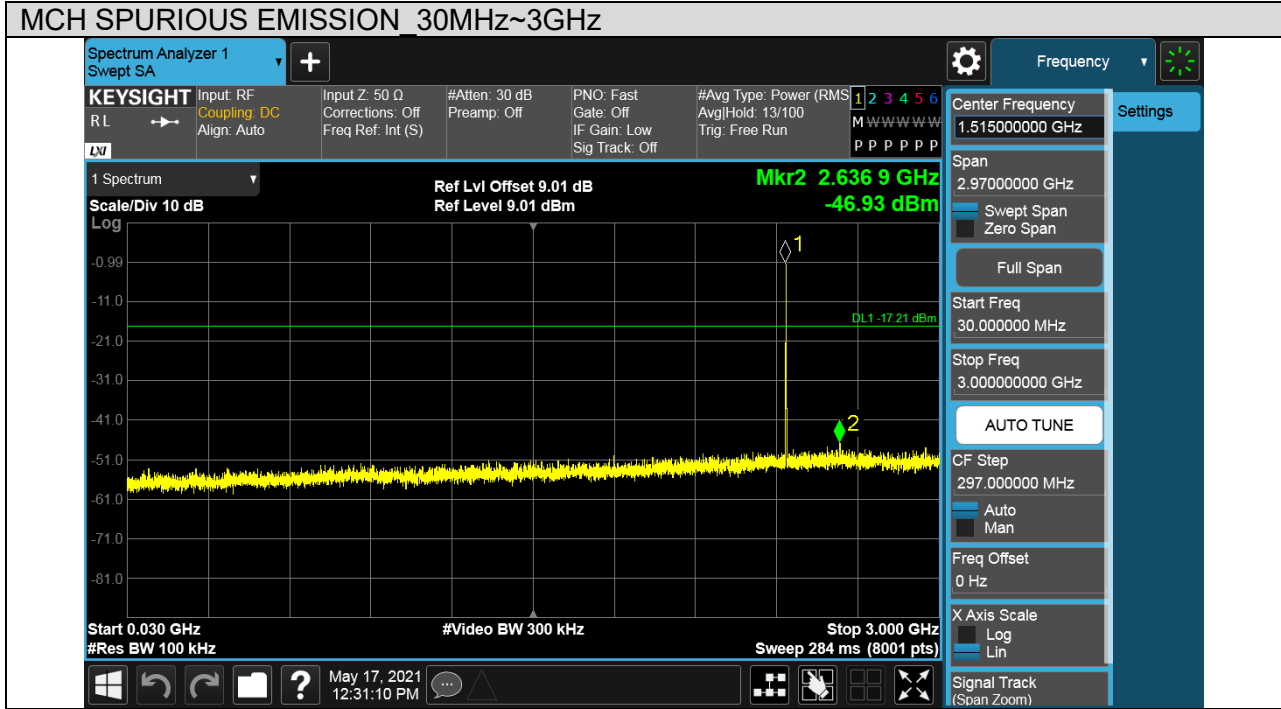
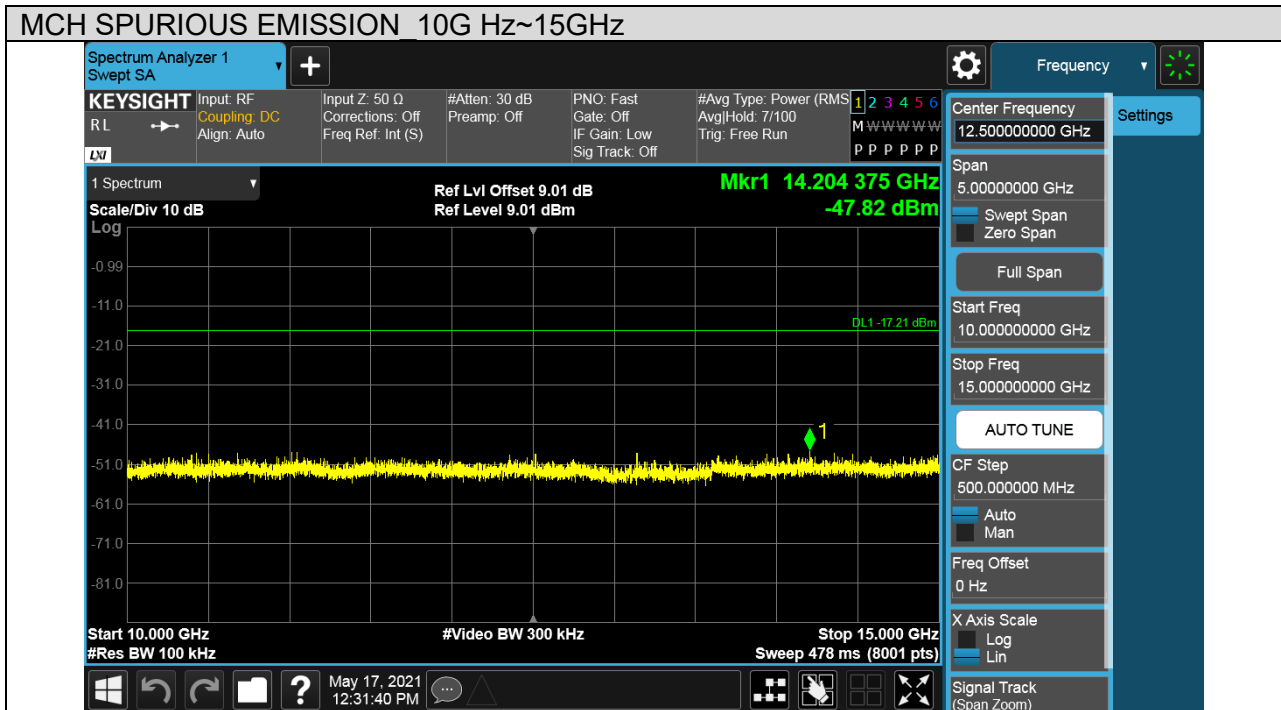
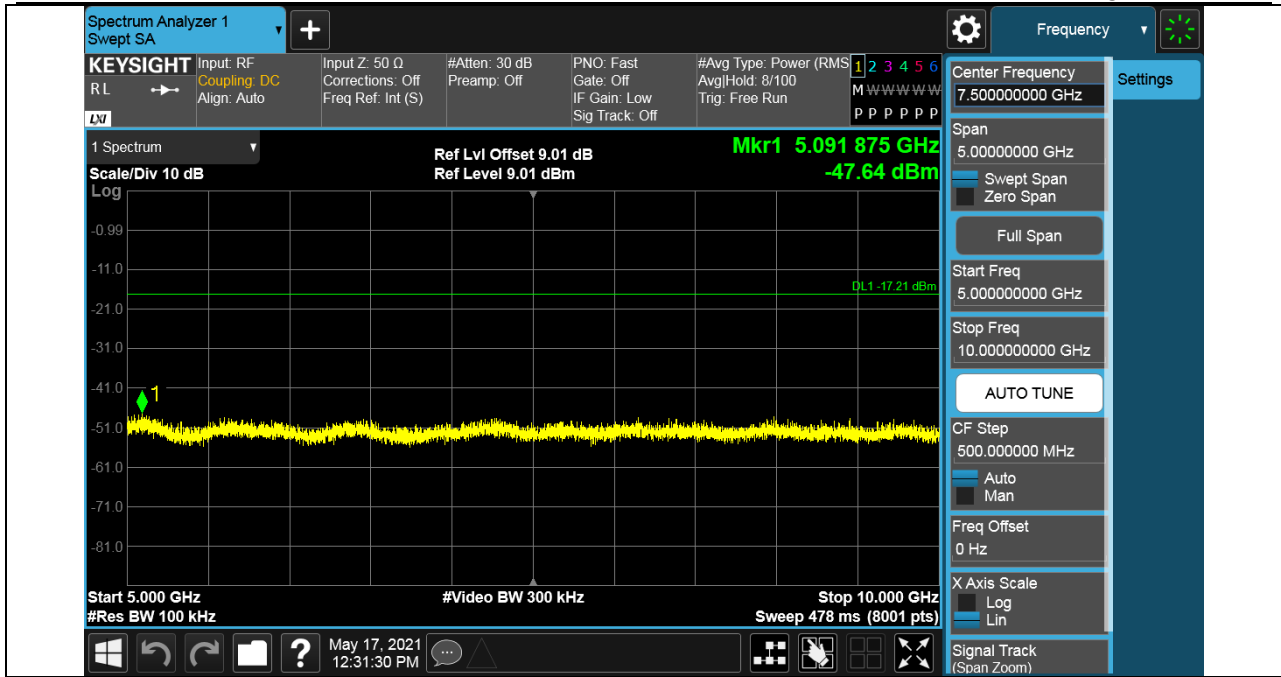


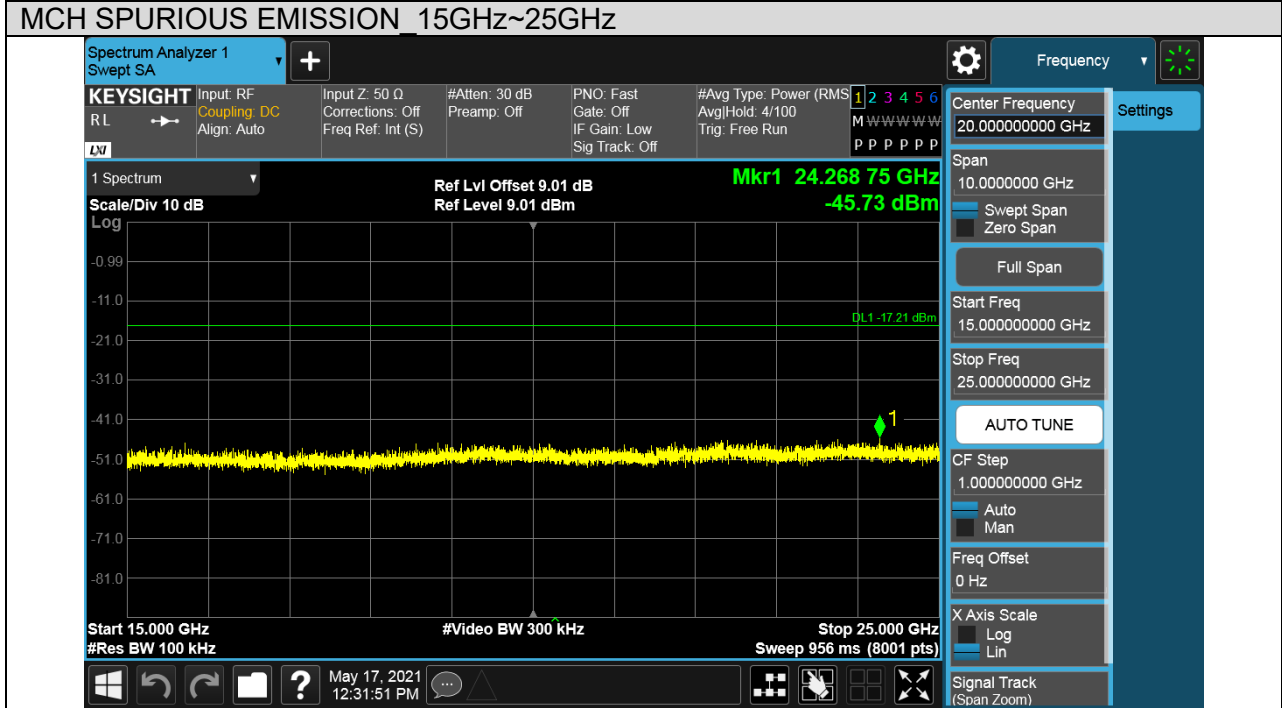


Puw test Plot



### MCH SPURIOUS EMISSION 5G Hz~10GHz

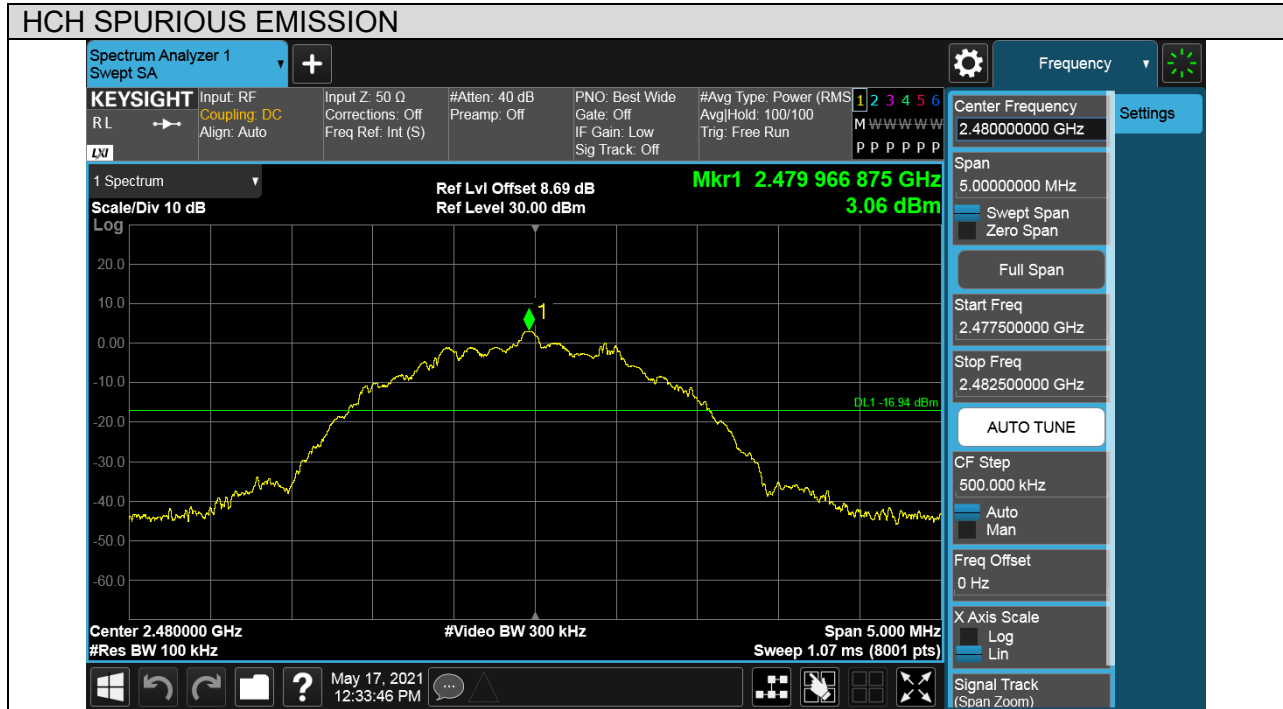






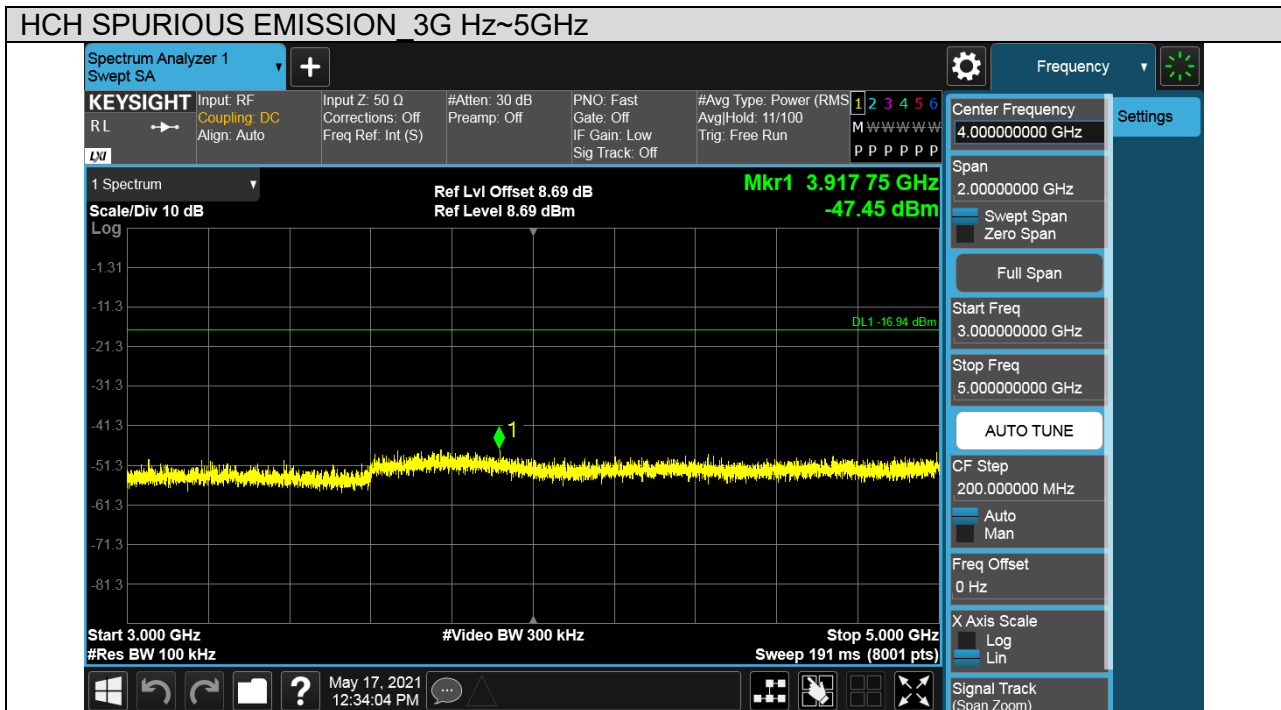
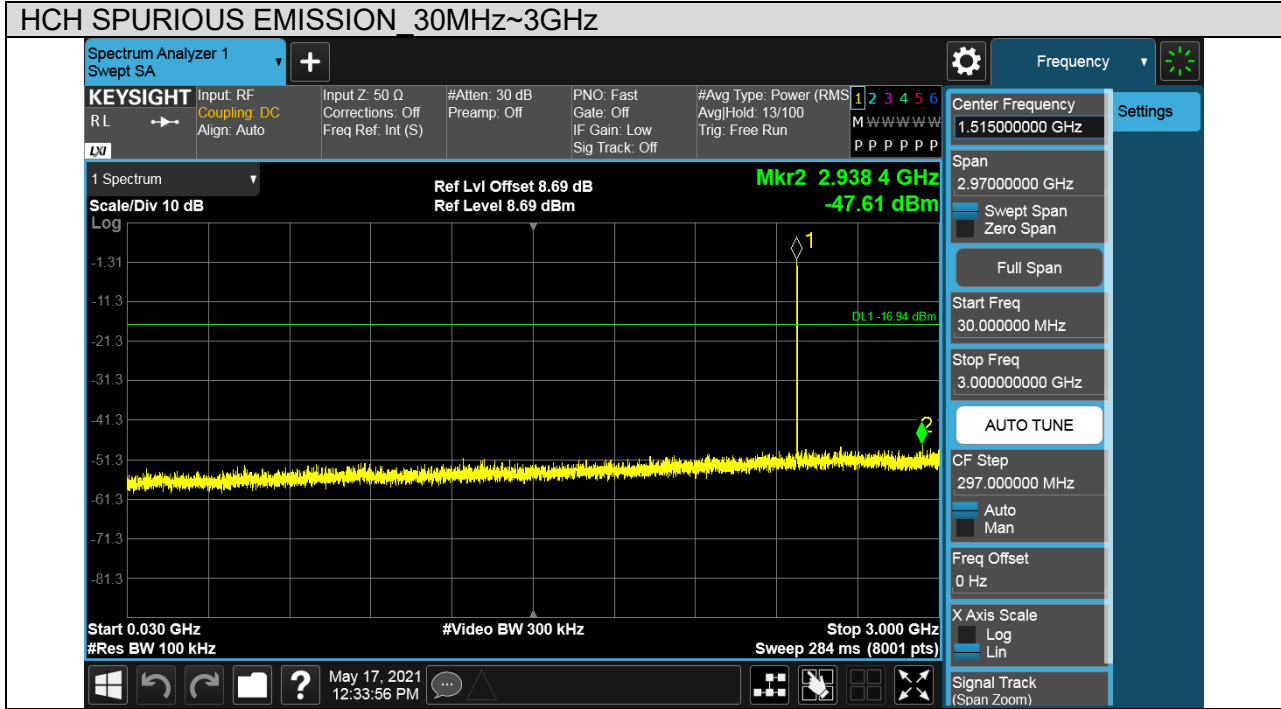
Test Mode	Channel	Verdict
BLE	HCH	PASS

Pref test Plot

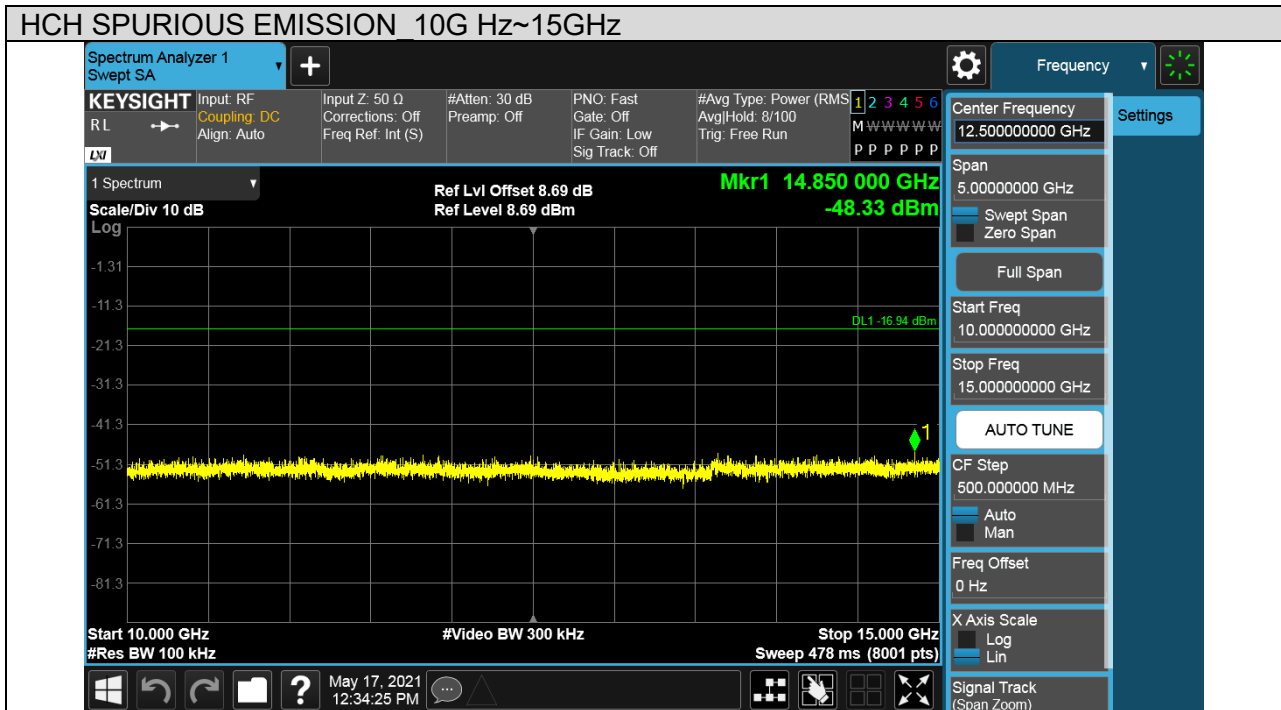
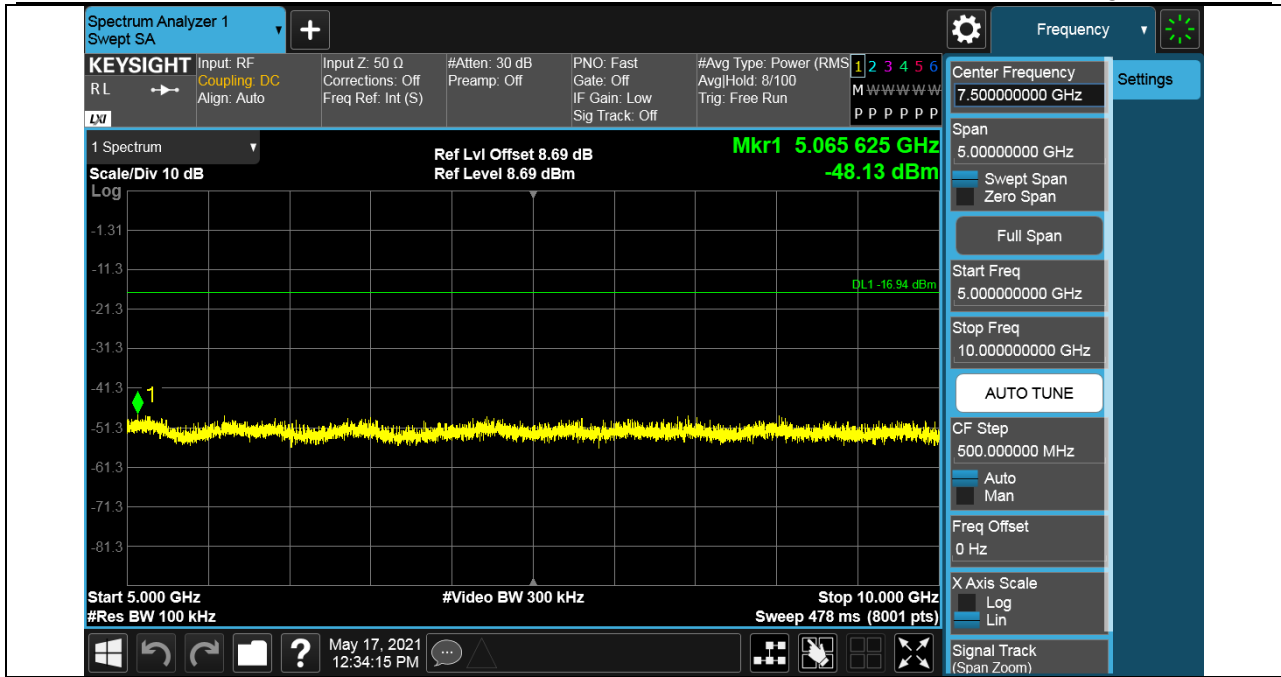


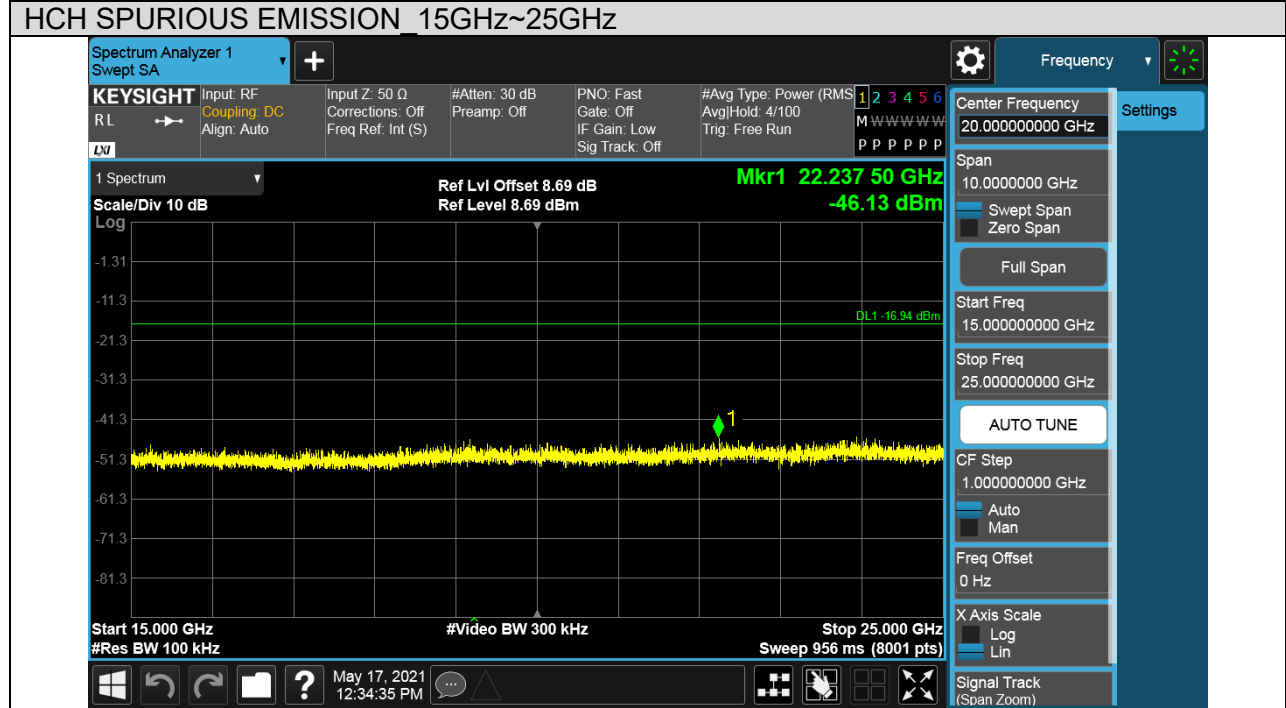


Puw test Plot



### HCH SPURIOUS EMISSION 5G Hz~10GHz





## 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 ( $\mu\text{V}/\text{m}$ 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	Magnetic field strength (H-Field) ( $\mu\text{A}/\text{m}$ )	Measurement distance (m)
9 - 490 kHz <sup>Note 1</sup>	$6.37/F$ (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.





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)

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

IC Restricted bands please refer to ISED RSS-GEN Clause 8.10

Restricted bands of operation

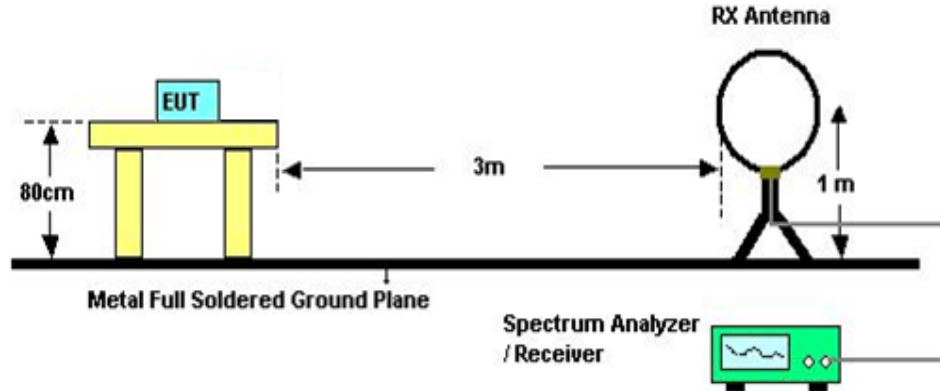
MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
<sup>1</sup> 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
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	( <sup>2</sup> )
13.36-13.41			

Note: <sup>1</sup>Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

<sup>2</sup>Above 38.6c

**TEST SETUP AND PROCEDURE**

Below 30MHz

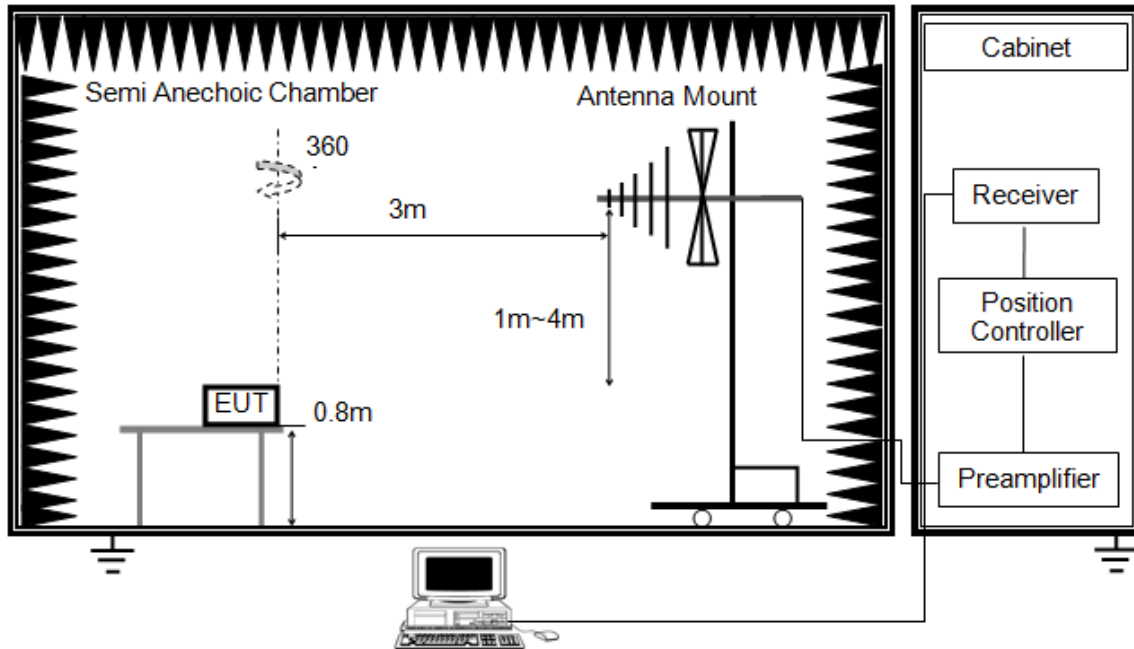


The setting of the spectrum analyser

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)

Below 1G

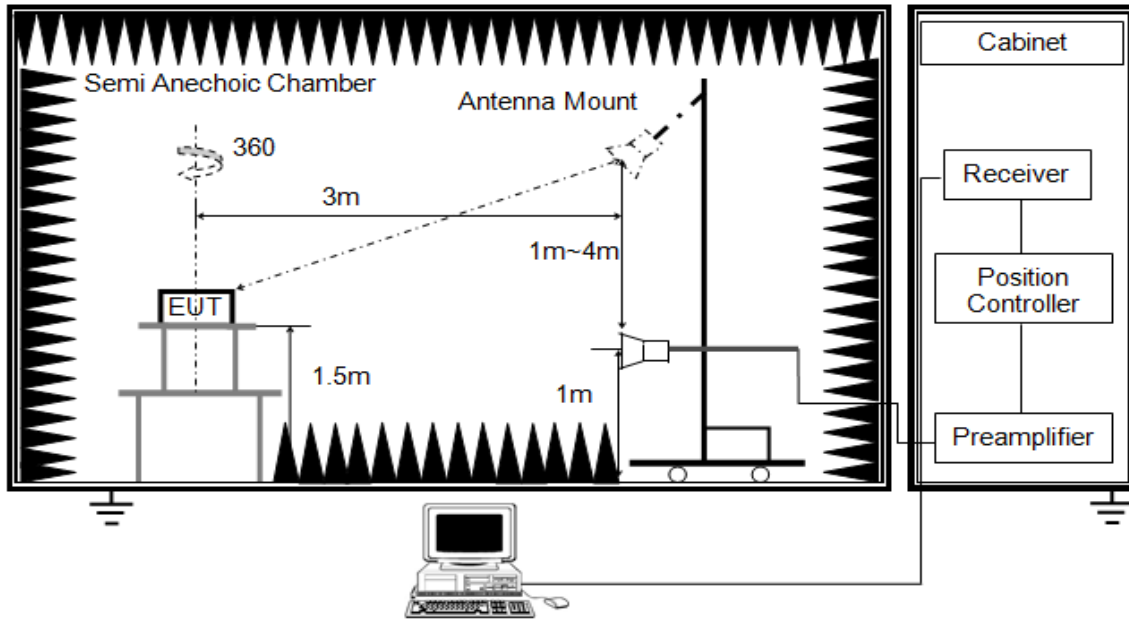


The setting of the spectrum analyser

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)

ABOVE 1G

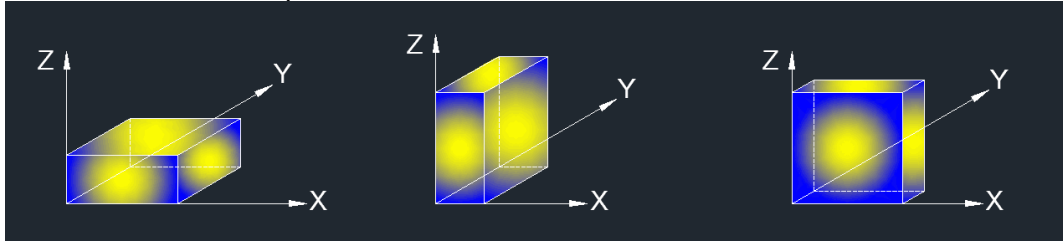


The setting of the spectrum analyser

RBW	1M
VBW	PEAK:3M AVG: See note6
Sweep	Auto
Detector	Peak/Average(Refer to section 7.1)
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  $[50 \cdot (1/\text{Duty Cycle})]$  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 (X axis) data recorded in the report.

### 7.6.2. TEST ENVIRONMENT

Temperature	22°C	Relative Humidity	56%
Atmosphere Pressure	101kPa	Test Voltage	AC 120V

### 7.6.3. RESTRICTED BANDEDGE

#### Test Result Table

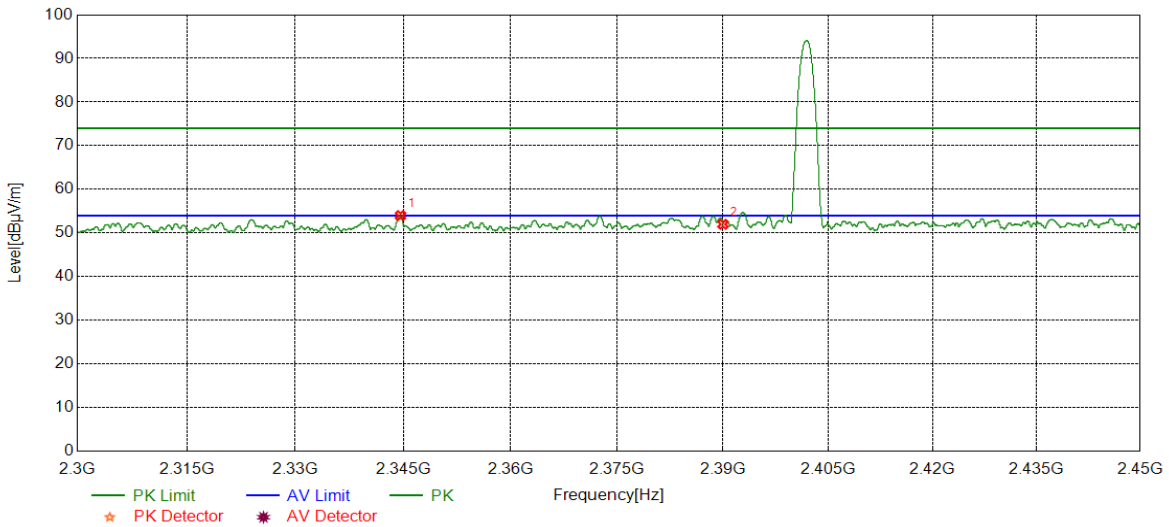
Test Mode	Channel	P <sub>u</sub> w(dBm)	Verdict
BLE-1M	LCH	<Limit	PASS
	HCH	<Limit	PASS
BLE-2M	LCH	<Limit	PASS
	HCH	<Limit	PASS



**Test Graphs:**

**For 1M part:**

Test Mode	Channel	Polarization	Verdict
BLE	LCH	Horizontal	PASS

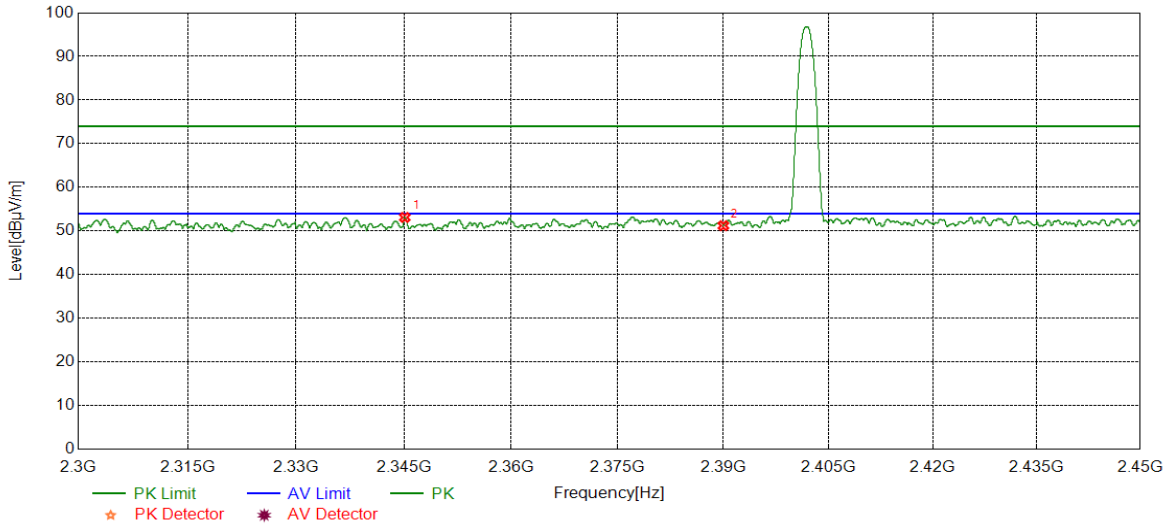


No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	2344.6118	41.35	12.64	53.99	74.00	-20.01	peak
2	2390.0000	38.93	13.07	52.00	74.00	-22.00	peak

- 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.  
 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
BLE	LCH	Vertical	PASS



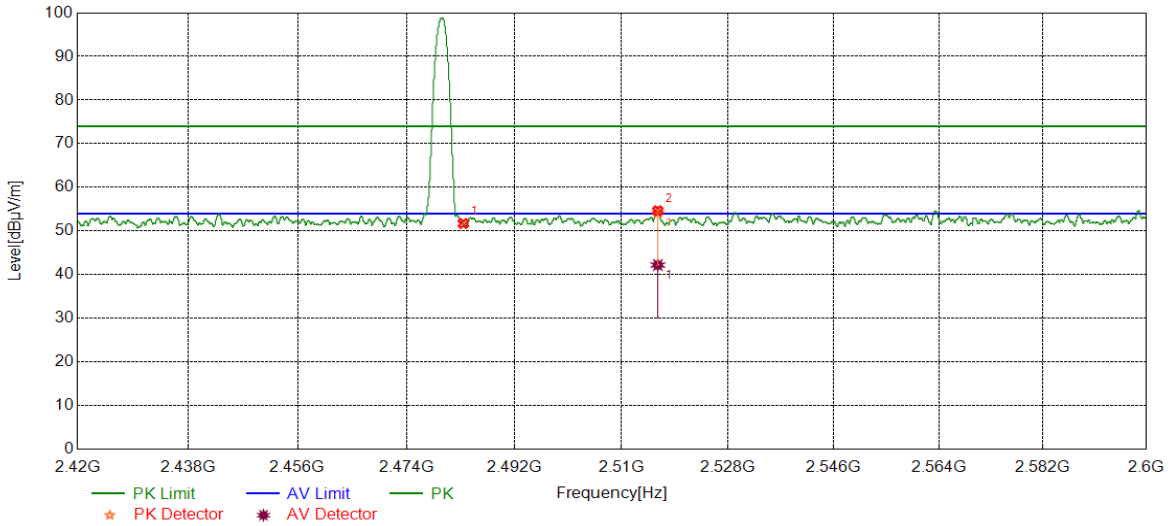
No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	2345.1181	40.47	12.64	53.11	74.00	-20.89	peak
2	2390.0000	38.14	13.07	51.21	74.00	-22.79	peak

- 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.  
 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
BLE	HCH	Horizontal	PASS

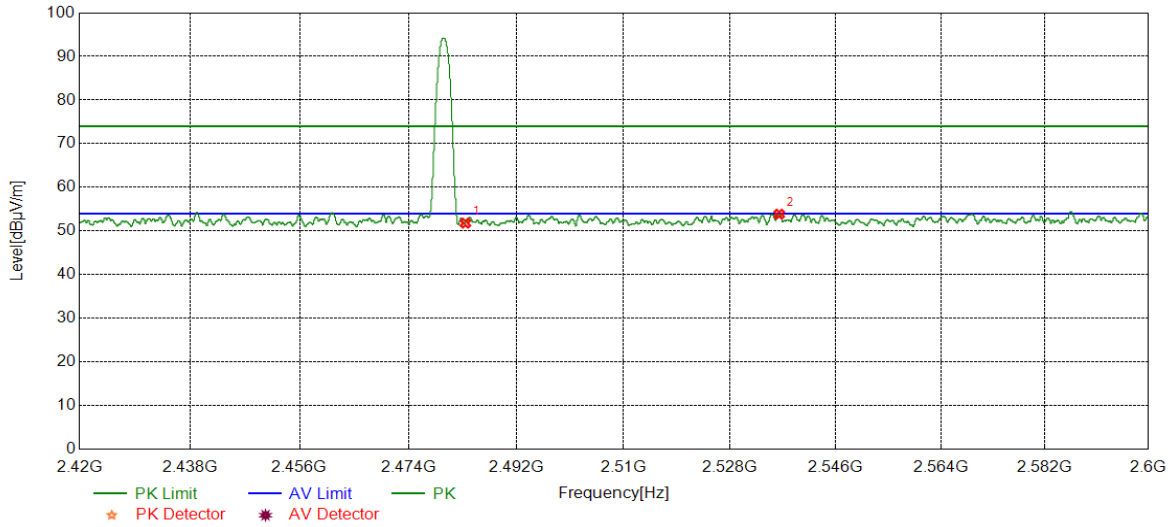


No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.5000	38.75	12.97	51.72	74.00	-22.28	peak
2	2516.1116	41.42	13.21	54.63	74.00	-19.37	peak
		28.99	13.21	42.20	54.00	-11.80	average

- 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
BLE	HCH	Vertical	PASS



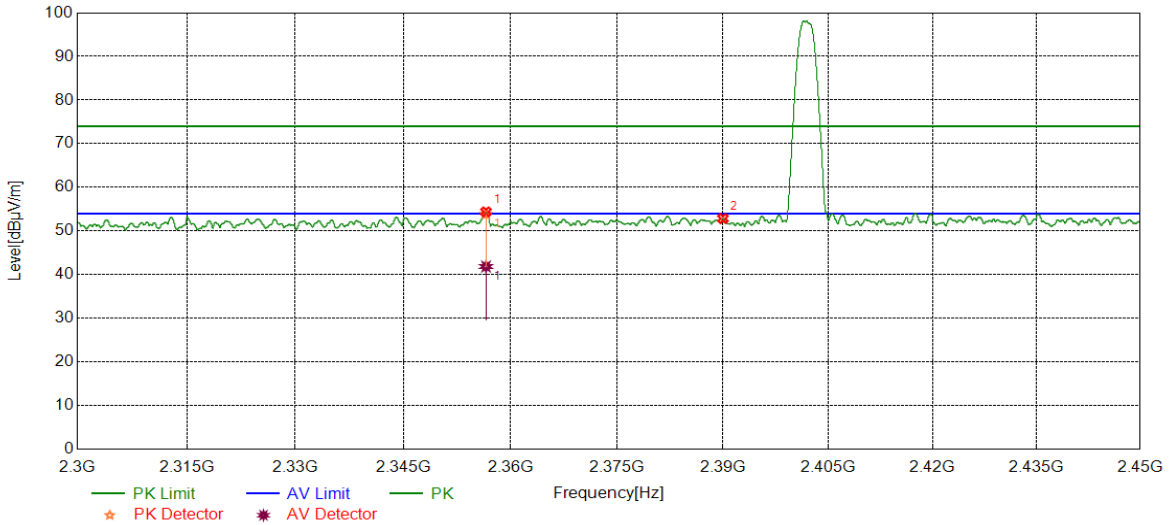
No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.5000	38.83	12.97	51.80	74.00	-22.20	peak
2	2536.3456	40.44	13.42	53.86	74.00	-20.14	peak

- 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.  
 4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



**For 2M part:**

Test Mode	Channel	Polarization	Verdict
BLE	LCH	Horizontal	PASS

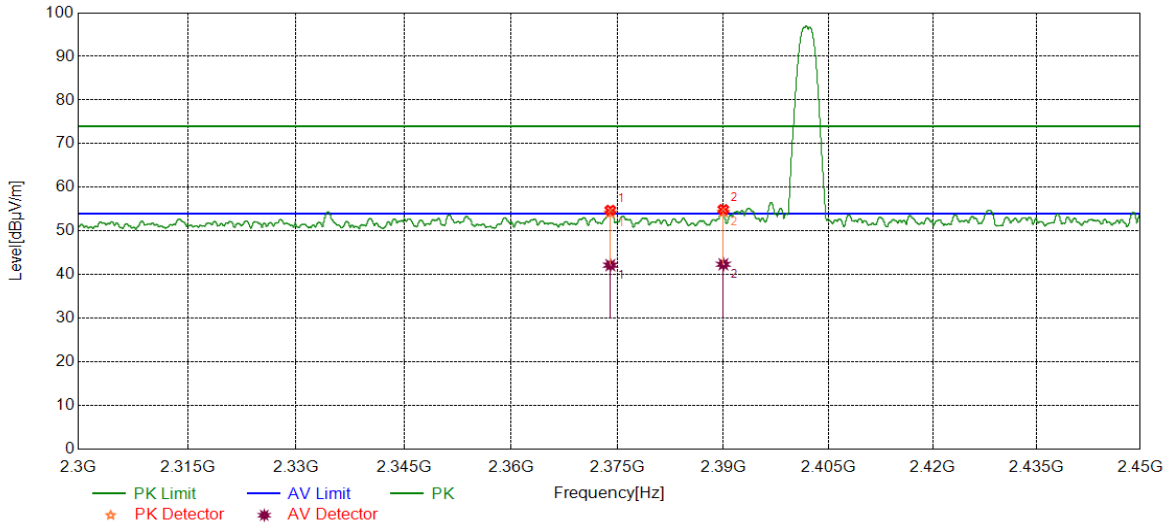


No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	2356.5571	41.64	12.75	54.39	74.00	-19.61	peak
		29.11	12.75	41.86	54.00	-12.14	average
2	2390.0000	39.78	13.07	52.85	74.00	-21.15	peak

- 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.  
 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
BLE	LCH	Vertical	PASS

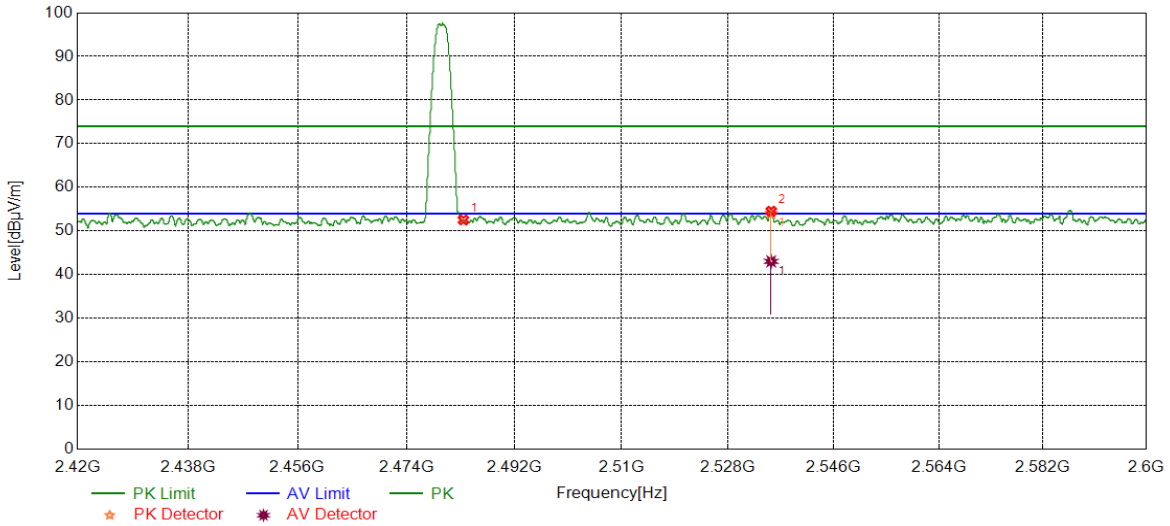


No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	2373.9780	41.78	12.98	54.76	74.00	-19.24	peak
		29.19	12.98	42.17	54.00	-11.83	average
2	2390.0000	41.86	13.07	54.93	74.00	-19.07	peak
		29.30	13.07	42.37	54.00	-11.63	average

- 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
BLE	HCH	Horizontal	PASS

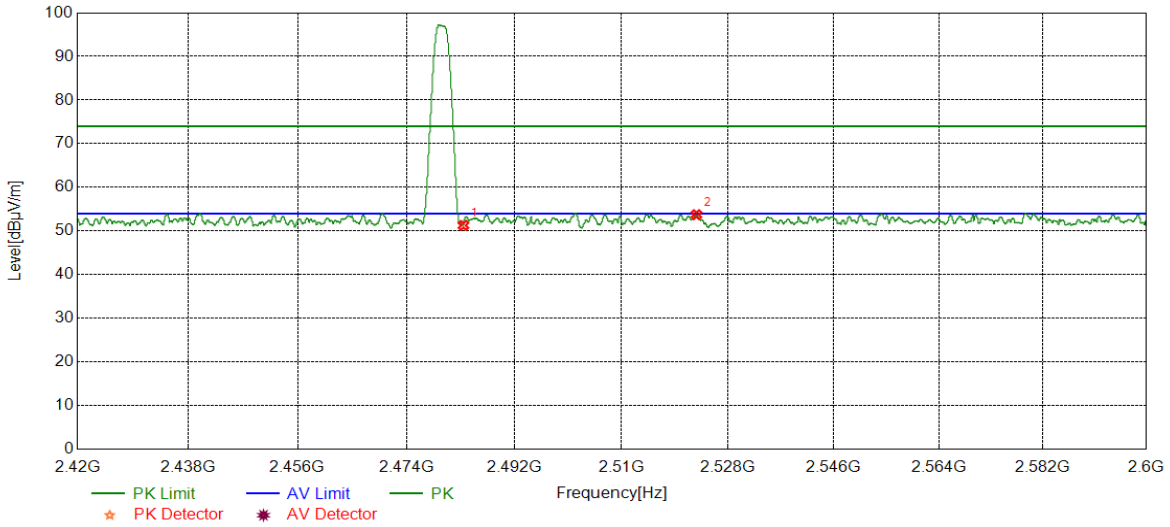


No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.5000	39.56	12.97	52.53	74.00	-21.47	peak
2	2535.3269	41.11	13.42	54.53	74.00	-19.47	peak
		29.62	13.42	43.04	54.00	-10.96	average

- 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
BLE	HCH	Vertical	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.5000	38.31	12.97	51.28	74.00	-22.72	peak
2	2522.6353	40.48	13.27	53.75	74.00	-20.25	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.  
 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) For 1GHz~3GHz

Test Mode	Channel	Puw(dBm)	Verdict
BLE	LCH	<Limit	PASS
	MCH	<Limit	PASS
	HCH	<Limit	PASS

2) For 3GHz~18GHz

Test Mode	Channel	Puw(dBm)	Verdict
BLE	LCH	<Limit	PASS
	MCH	<Limit	PASS
	HCH	<Limit	PASS

3) For 18GHz~26.5GHz

Test Mode	Channel	Puw(dBm)	Verdict
BLE-2M	MCH	<Limit	PASS

Remark:

1) Through pre-testing all test mode and 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
BLE-2M	MCH	<Limit	PASS

Remark:

1) Through pre-testing all test mode and 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
BLE-2M	MCH	<Limit	PASS

Remark:

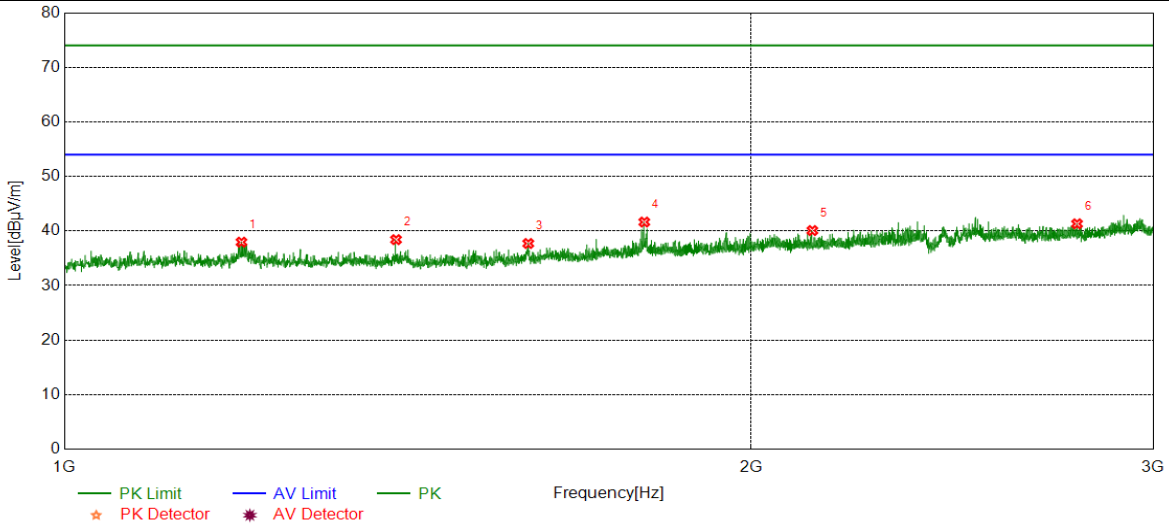
1) Through pre-testing all test mode and channels, but only the data of the worst case is included in this test report.



**Part I: 1GHz~3GHz**  
**For 1M Part:**

**HARMONICS AND SPURIOUS EMISSIONS**

Test Mode	Channel	Polarization	Verdict
BLE	LCH	Horizontal	PASS



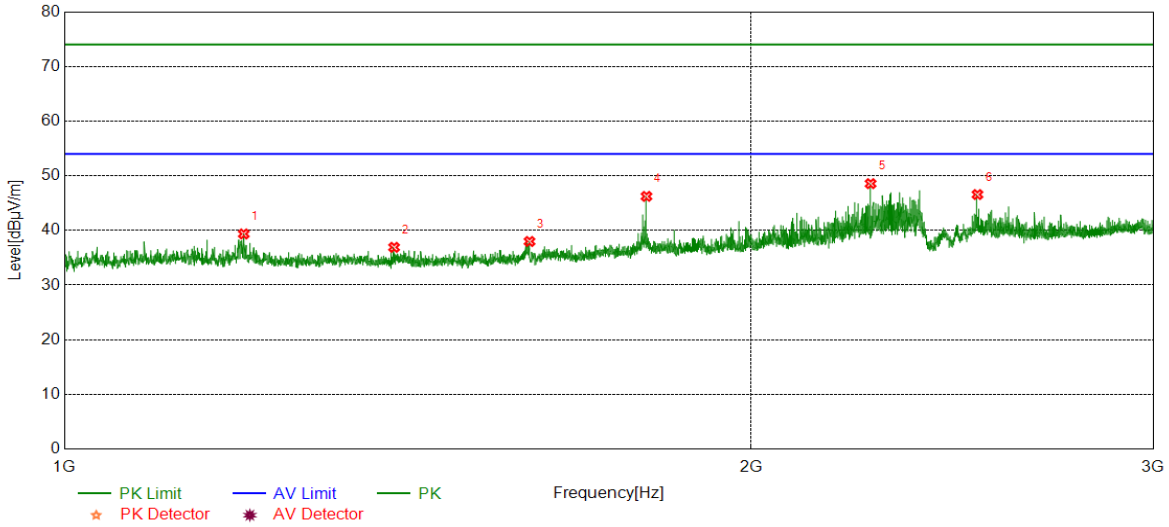
No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1195.7745	43.52	-5.56	37.96	74.00	-36.04	peak
2	1397.5497	44.09	-5.68	38.41	74.00	-35.59	peak
3	1597.0746	42.82	-5.11	37.71	74.00	-36.29	peak
4	1795.3494	45.43	-3.79	41.64	74.00	-32.36	peak
5	2127.1409	42.43	-2.35	40.08	74.00	-33.92	peak
6	2778.2223	41.59	-0.27	41.32	74.00	-32.68	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. 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
BLE	LCH	Vertical	PASS

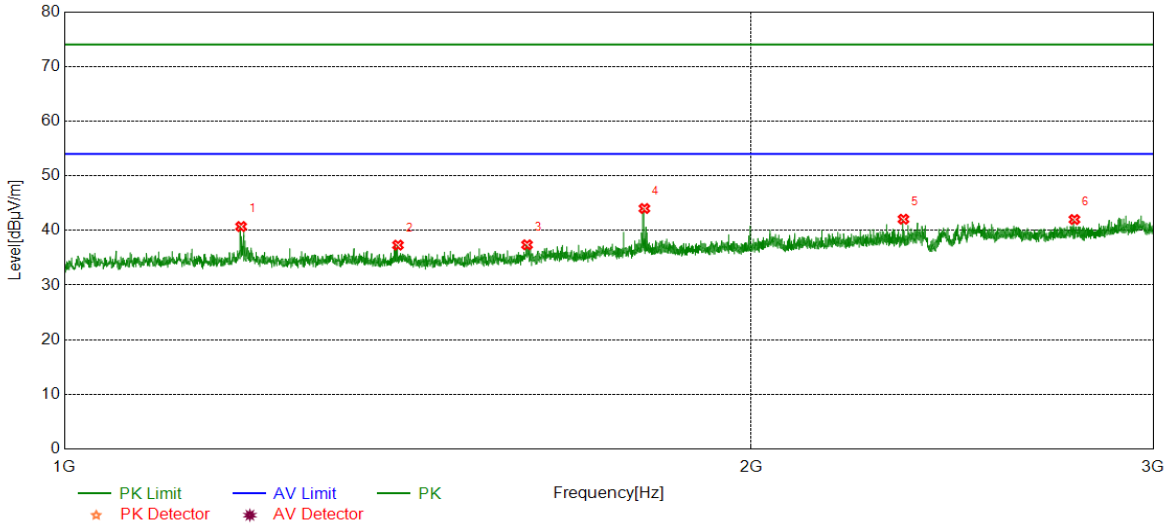


No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1198.5248	44.92	-5.56	39.36	74.00	-34.64	peak
2	1394.7994	42.63	-5.72	36.91	74.00	-37.09	peak
3	1599.0749	43.14	-5.16	37.98	74.00	-36.02	peak
4	1799.3499	50.07	-3.84	46.23	74.00	-27.77	peak
5	2255.9070	50.66	-2.10	48.56	74.00	-25.44	peak
6	2512.6891	46.94	-0.37	46.57	74.00	-27.43	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. 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
BLE	MCH	Horizontal	PASS

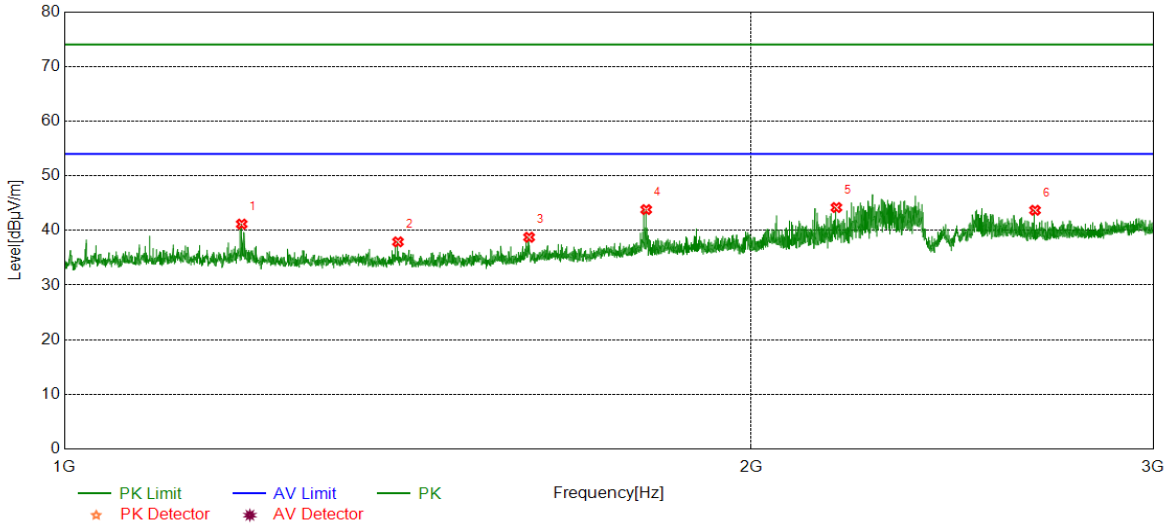


No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1195.2744	46.28	-5.57	40.71	74.00	-33.29	peak
2	1400.3000	42.96	-5.65	37.31	74.00	-36.69	peak
3	1595.0744	42.43	-5.06	37.37	74.00	-36.63	peak
4	1795.5995	47.81	-3.80	44.01	74.00	-29.99	peak
5	2331.9165	43.88	-1.82	42.06	74.00	-31.94	peak
6	2770.9714	42.21	-0.21	42.00	74.00	-32.00	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. 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
BLE	MCH	Vertical	PASS

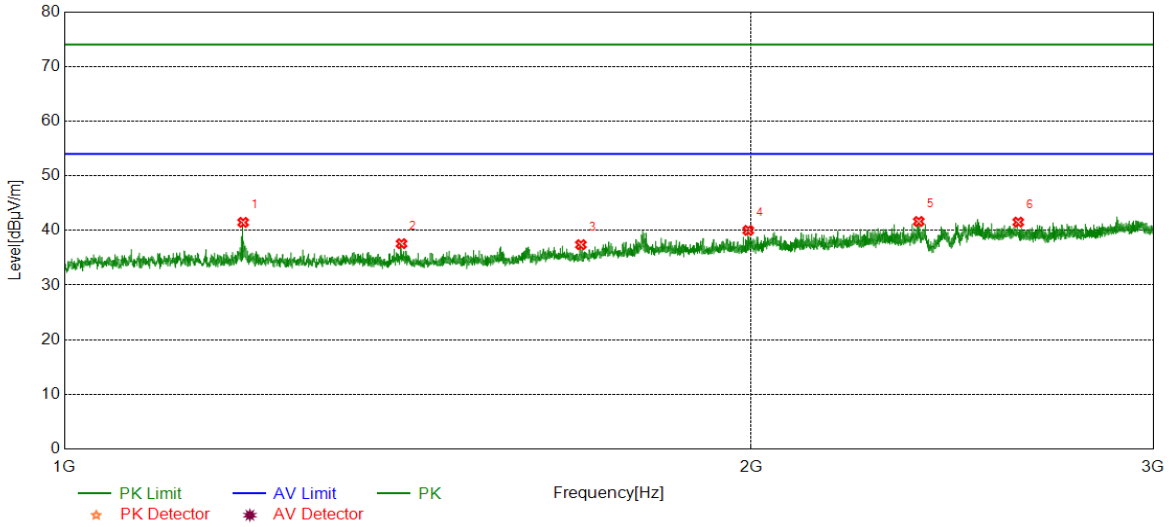


No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1196.0245	46.72	-5.56	41.16	74.00	-32.84	peak
2	1400.3000	43.56	-5.65	37.91	74.00	-36.09	peak
3	1598.3248	43.89	-5.14	38.75	74.00	-35.25	peak
4	1798.8499	47.64	-3.83	43.81	74.00	-30.19	peak
5	2179.3974	46.52	-2.33	44.19	74.00	-29.81	peak
6	2662.9579	44.38	-0.69	43.69	74.00	-30.31	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. 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
BLE	HCH	Horizontal	PASS

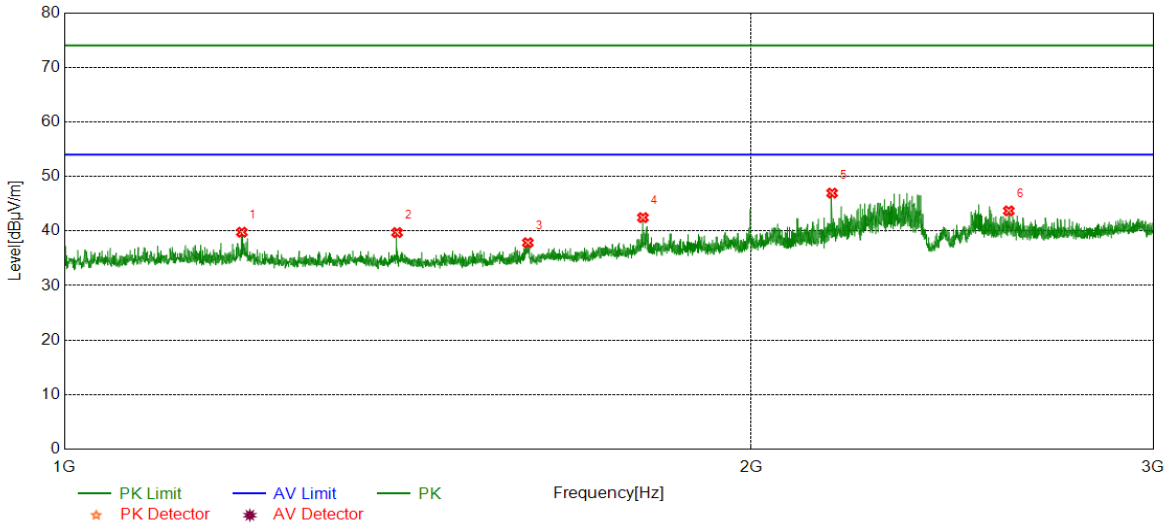


No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1197.7747	47.03	-5.56	41.47	74.00	-32.53	peak
2	1405.3007	43.08	-5.50	37.58	74.00	-36.42	peak
3	1684.0855	42.20	-4.81	37.39	74.00	-36.61	peak
4	1993.8742	43.06	-3.05	40.01	74.00	-33.99	peak
5	2368.1710	42.78	-1.14	41.64	74.00	-32.36	peak
6	2618.2023	41.71	-0.19	41.52	74.00	-32.48	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. 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
BLE	HCH	Vertical	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1196.2745	45.34	-5.56	39.78	74.00	-34.22	peak
2	1399.0499	45.38	-5.67	39.71	74.00	-34.29	peak
3	1596.3245	42.94	-5.09	37.85	74.00	-36.15	peak
4	1792.8491	46.22	-3.77	42.45	74.00	-31.55	peak
5	2169.8962	49.27	-2.32	46.95	74.00	-27.05	peak
6	2593.4492	44.44	-0.75	43.69	74.00	-30.31	peak

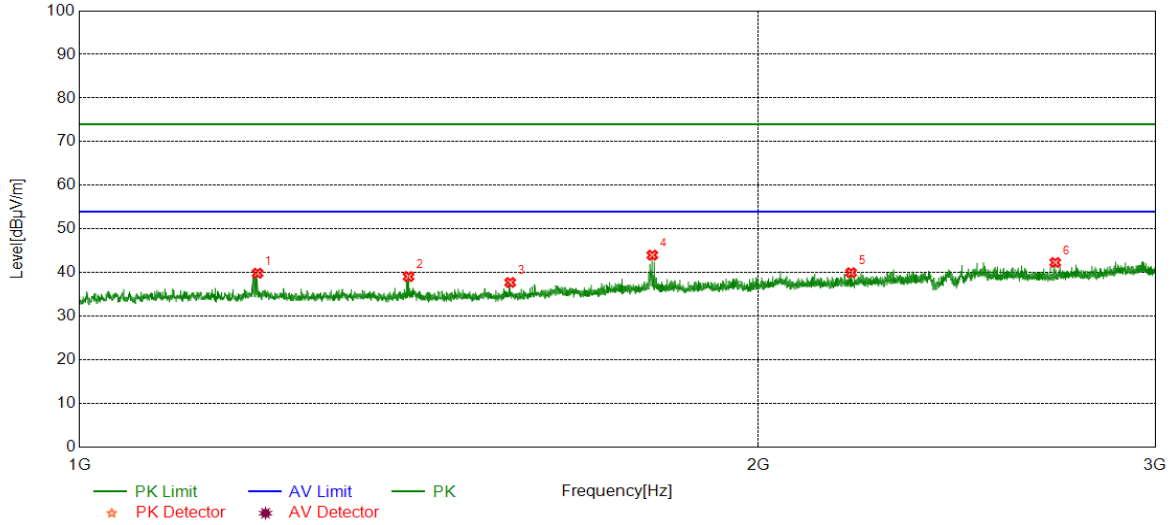
- Note: 1. Measurement = Reading Level + Correct Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.  
 4. Peak: Peak detector.  
 5. AVG: VBW refer to section 7.1.  
 6. For below 3GHz part, filter 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.



**For 2M Part:**

**HARMONICS AND SPURIOUS EMISSIONS**

Test Mode	Channel	Polarization	Verdict
BLE	LCH	Horizontal	PASS

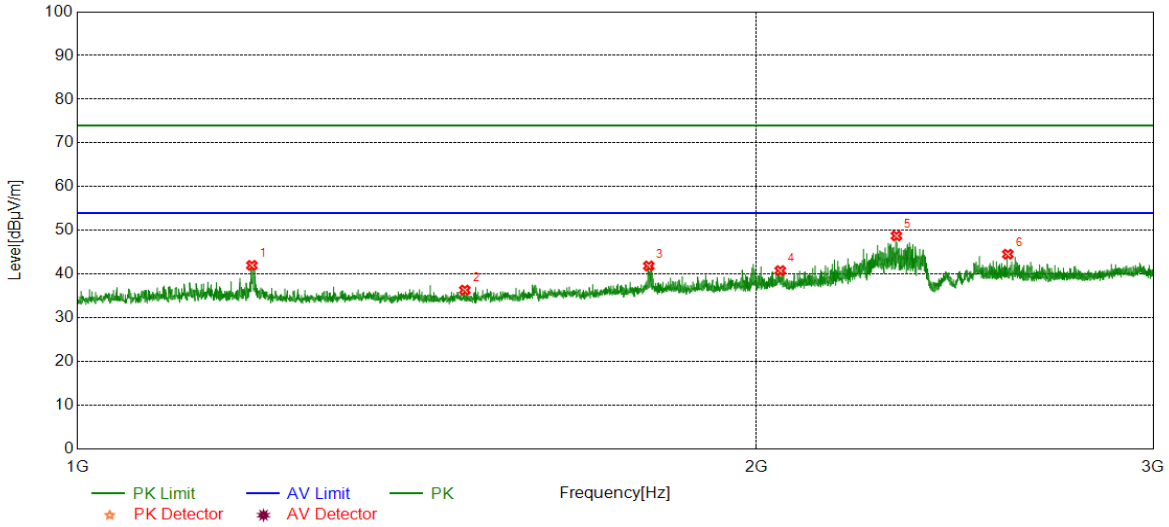


No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1199.5249	45.43	-5.56	39.87	74.00	-34.13	peak
2	1399.5499	44.76	-5.66	39.10	74.00	-34.90	peak
3	1552.5691	43.18	-5.44	37.74	74.00	-36.26	peak
4	1795.0994	47.80	-3.79	44.01	74.00	-29.99	peak
5	2199.1499	42.31	-2.33	39.98	74.00	-34.02	peak
6	2708.9636	42.59	-0.27	42.32	74.00	-31.68	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. 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
BLE	LCH	Vertical	PASS

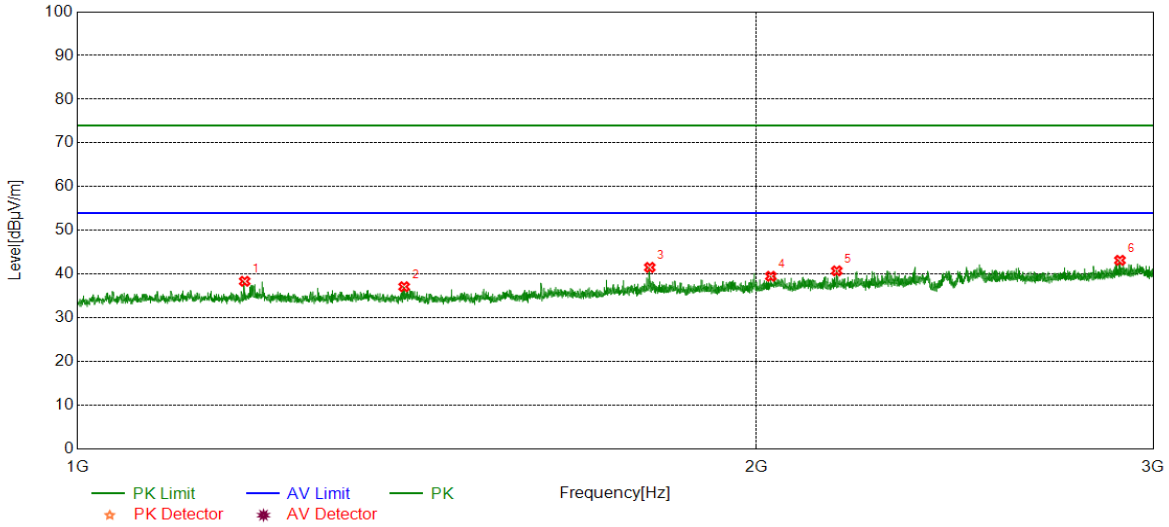


No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1195.0244	47.58	-5.57	42.01	74.00	-31.99	peak
2	1485.3107	42.14	-5.79	36.35	74.00	-37.65	peak
3	1792.3490	45.63	-3.76	41.87	74.00	-32.13	peak
4	2049.8812	43.18	-2.38	40.80	74.00	-33.20	peak
5	2308.1635	50.45	-1.69	48.76	74.00	-25.24	peak
6	2586.1983	45.41	-0.85	44.56	74.00	-29.44	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. 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
BLE	MCH	Horizontal	PASS



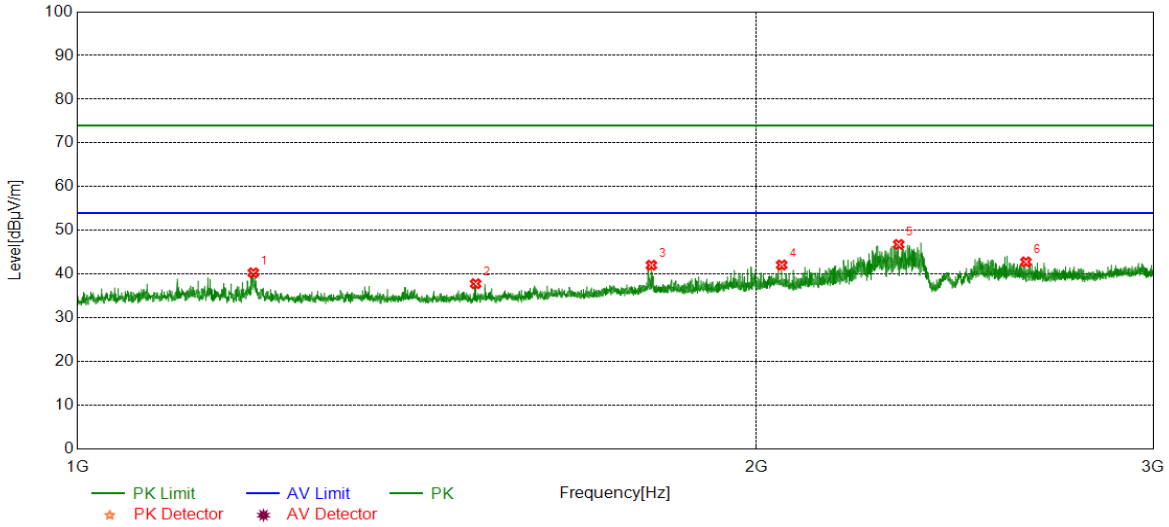
No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1186.2733	43.98	-5.61	38.37	74.00	-35.63	peak
2	1396.0495	42.83	-5.70	37.13	74.00	-36.87	peak
3	1794.0993	45.32	-3.78	41.54	74.00	-32.46	peak
4	2030.3788	42.23	-2.72	39.51	74.00	-34.49	peak
5	2171.6465	43.07	-2.32	40.75	74.00	-33.25	peak
6	2899.9875	42.83	0.33	43.16	74.00	-30.84	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. 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
BLE	MCH	Vertical	PASS

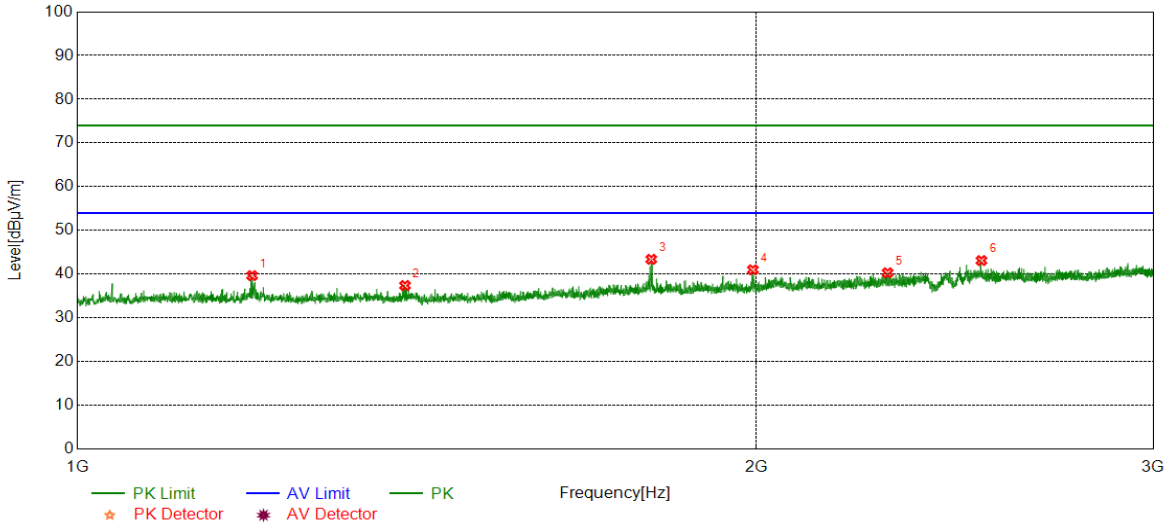


No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1196.7746	45.86	-5.56	40.30	74.00	-33.70	peak
2	1501.8127	43.77	-5.96	37.81	74.00	-36.19	peak
3	1797.0996	45.85	-3.81	42.04	74.00	-31.96	peak
4	2052.8816	44.55	-2.46	42.09	74.00	-31.91	peak
5	2313.4142	48.45	-1.65	46.80	74.00	-27.20	peak
6	2634.4543	43.59	-0.79	42.80	74.00	-31.20	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. 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
BLE	HCH	Horizontal	PASS

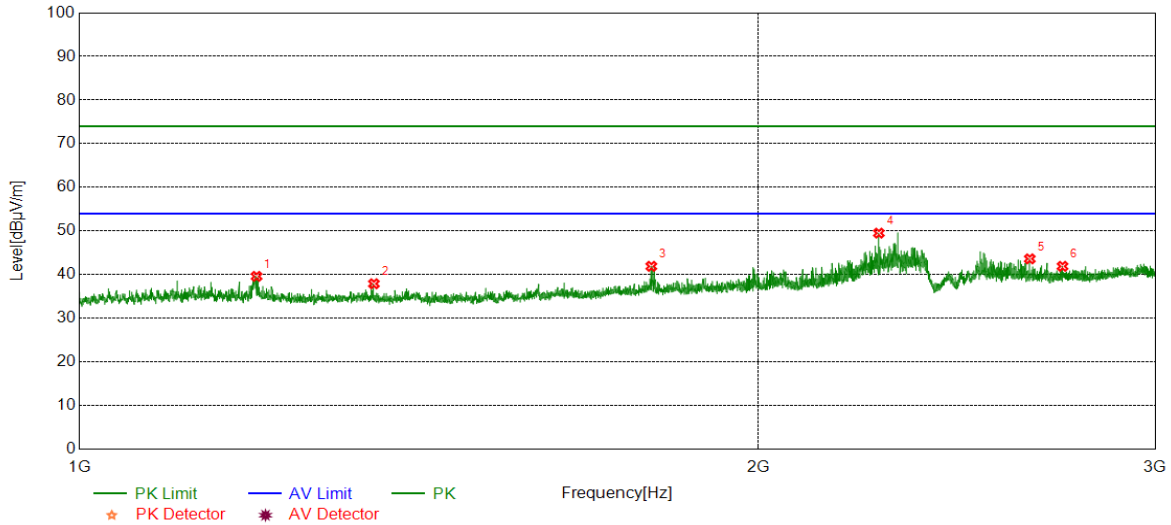


No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1195.2744	45.23	-5.57	39.66	74.00	-34.34	peak
2	1397.2997	43.09	-5.69	37.40	74.00	-36.60	peak
3	1796.8496	47.21	-3.81	43.40	74.00	-30.60	peak
4	1993.3742	44.06	-3.06	41.00	74.00	-33.00	peak
5	2287.4109	42.25	-1.94	40.31	74.00	-33.69	peak
6	2517.4397	43.45	-0.34	43.11	74.00	-30.89	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. 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
BLE	HCH	Vertical	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1198.2748	45.17	-5.56	39.61	74.00	-34.39	peak
2	1350.7938	43.27	-5.36	37.91	74.00	-36.09	peak
3	1793.3492	45.68	-3.77	41.91	74.00	-32.09	peak
4	2262.4078	51.62	-2.11	49.51	74.00	-24.49	peak
5	2639.4549	44.44	-0.82	43.62	74.00	-30.38	peak
6	2729.2162	42.39	-0.48	41.91	74.00	-32.09	peak

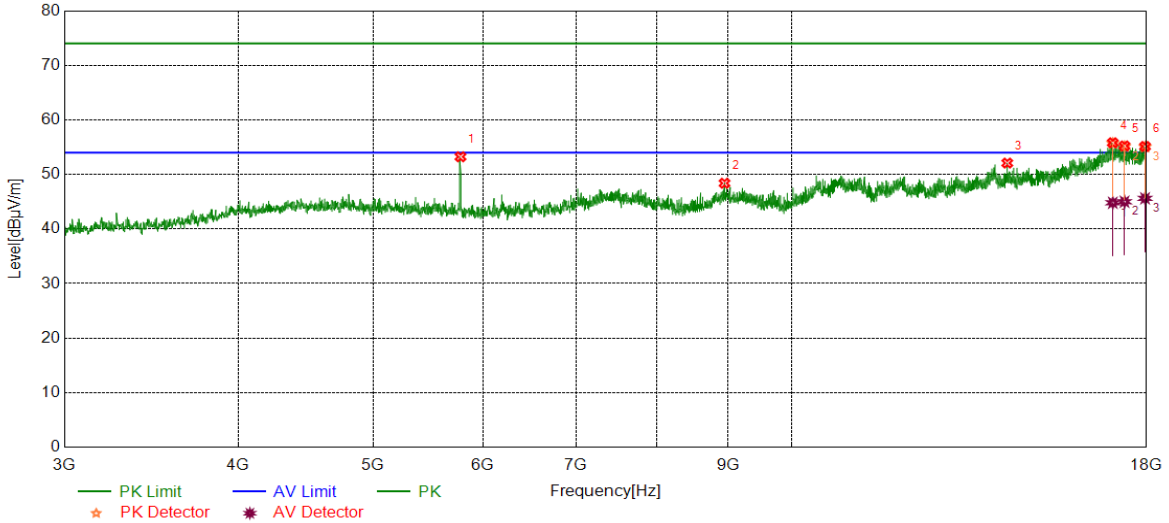
- Note: 1. Measurement = Reading Level + Correct Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.  
 4. Peak: Peak detector.  
 5. AVG: VBW refer to section 7.1.  
 6. For below 3GHz part, filter 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.



**Part II: 3GHz~18GHz**  
**For 1M Part:**

**HARMONICS AND SPURIOUS EMISSIONS**

Test Mode	Channel	Polarization	Verdict
BLE	LCH	Horizontal	PASS

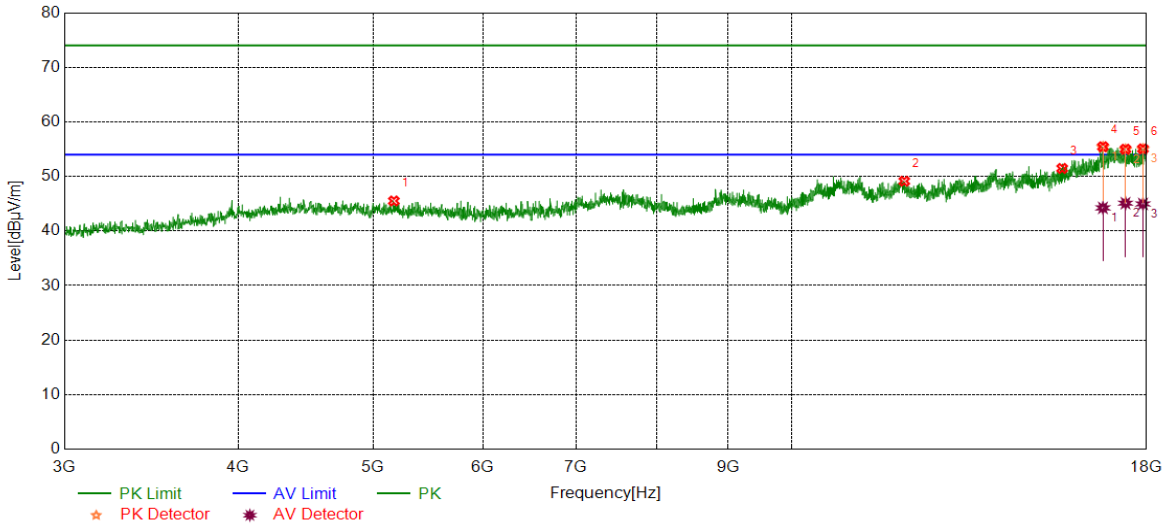


No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	5780.9726	47.95	5.29	53.24	74.00	-20.76	peak
2	8950.1188	39.32	9.07	48.39	74.00	-25.61	peak
3	14292.6616	38.21	13.88	52.09	74.00	-21.91	peak
4	17021.1276	37.38	18.43	55.81	74.00	-18.19	peak
		26.38	18.43	44.81	54.00	-9.19	average
5	17354.9194	37.36	17.87	55.23	74.00	-18.77	peak
		27.13	17.87	45.00	54.00	-9.00	average
6	17954.9944	36.61	18.52	55.13	74.00	-18.87	peak
		27.10	18.52	45.62	54.00	-8.38	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. 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.



Test Mode	Channel	Polarization	Verdict
BLE	LCH	Vertical	PASS

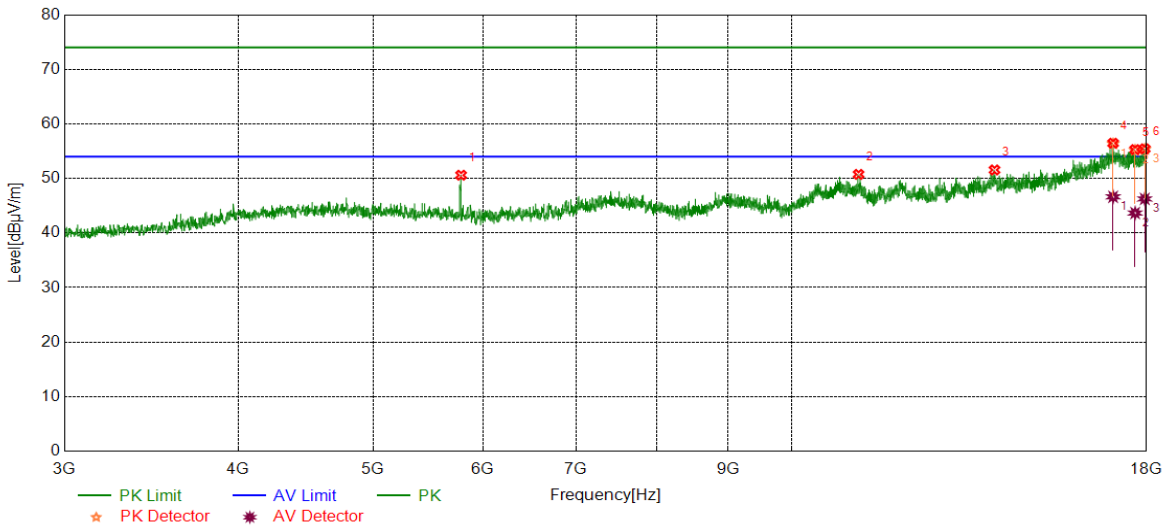


No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	5177.1471	40.35	5.16	45.51	74.00	-28.49	peak
2	12051.7565	36.49	12.64	49.13	74.00	-24.87	peak
3	15652.2065	36.70	14.77	51.47	74.00	-22.53	peak
4	16745.4682	38.10	17.35	55.45	74.00	-18.55	peak
		26.89	17.35	44.24	54.00	-9.76	average
5	17383.0479	36.65	18.35	55.00	74.00	-19.00	peak
		26.75	18.35	45.10	54.00	-8.90	average
6	17893.1116	36.56	18.51	55.07	74.00	-18.93	peak
		26.45	18.51	44.96	54.00	-9.04	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. 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.



Test Mode	Channel	Polarization	Verdict
BLE	MCH	Horizontal	PASS

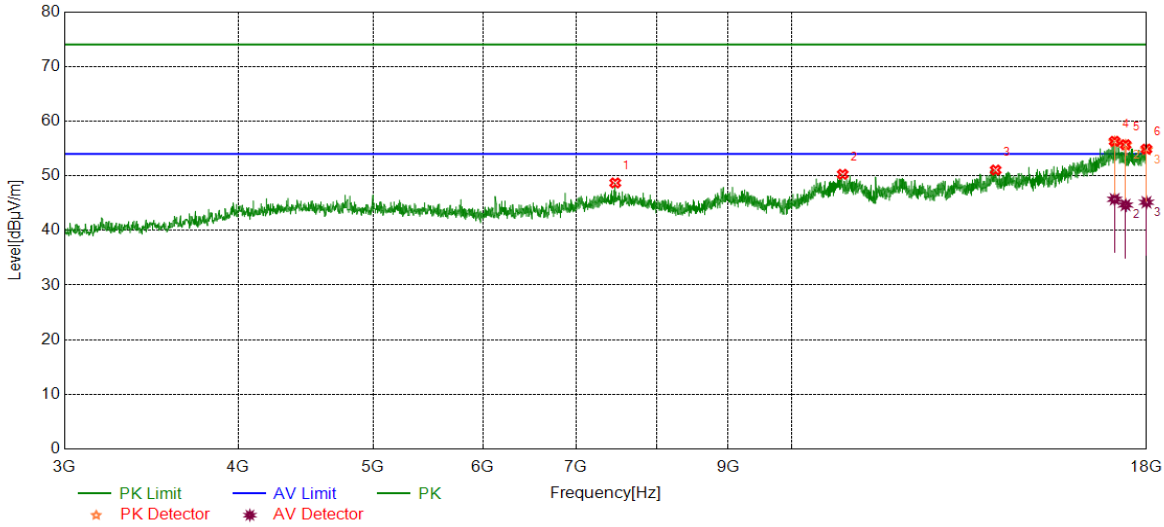


No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	5786.5983	45.35	5.25	50.60	74.00	-23.40	peak
2	11174.1468	38.81	11.94	50.75	74.00	-23.25	peak
3	13994.4993	37.39	14.17	51.56	74.00	-22.44	peak
4	17030.5038	37.43	19.03	56.46	74.00	-17.54	peak
		27.60	19.03	46.63	54.00	-7.37	average
5	17662.4578	37.93	17.36	55.29	74.00	-18.71	peak
		26.30	17.36	43.66	54.00	-10.34	average
6	17945.6182	36.99	18.44	55.43	74.00	-18.57	peak
		27.81	18.44	46.25	54.00	-7.75	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. 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.



Test Mode	Channel	Polarization	Verdict
BLE	MCH	Vertical	PASS

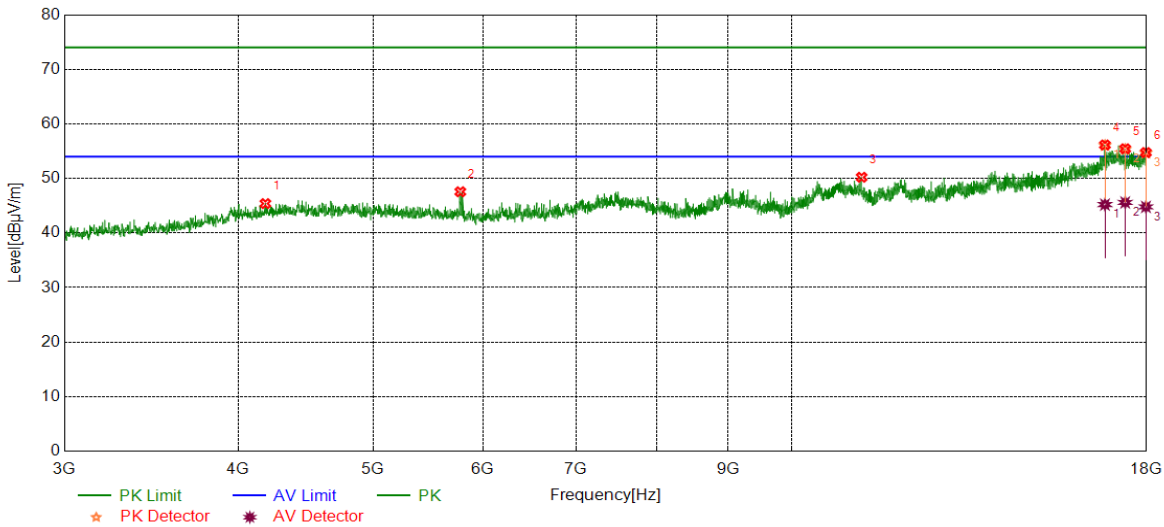


No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	7468.6836	39.96	8.73	48.69	74.00	-25.31	peak
2	10883.4854	38.03	12.24	50.27	74.00	-23.73	peak
3	14020.7526	36.80	14.25	51.05	74.00	-22.95	peak
4	17073.6342	37.29	19.02	56.31	74.00	-17.69	peak
		26.69	19.02	45.71	54.00	-8.29	average
5	17384.9231	37.49	18.20	55.69	74.00	-18.31	peak
		26.45	18.20	44.65	54.00	-9.35	average
6	17996.2495	36.99	17.89	54.88	74.00	-19.12	peak
		27.26	17.89	45.15	54.00	-8.85	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. 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.



Test Mode	Channel	Polarization	Verdict
BLE	HCH	Horizontal	PASS



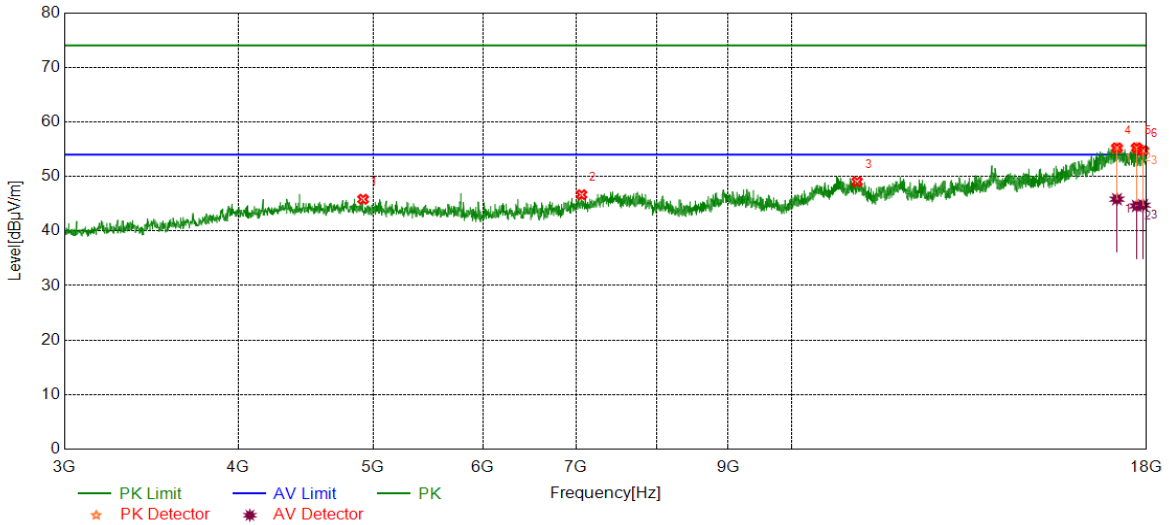
No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	4185.1481	40.89	4.50	45.39	74.00	-28.61	peak
2	5779.0974	42.26	5.30	47.56	74.00	-26.44	peak
3	11230.4038	38.51	11.71	50.22	74.00	-23.78	peak
4	16801.7252	38.66	17.48	56.14	74.00	-17.86	peak
		27.73	17.48	45.21	54.00	-8.79	average
5	17373.6717	36.91	18.54	55.45	74.00	-18.55	peak
		27.06	18.54	45.60	54.00	-8.40	average
6	17981.2477	36.71	18.04	54.75	74.00	-19.25	peak
		26.75	18.04	44.79	54.00	-9.21	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. 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.





Test Mode	Channel	Polarization	Verdict
BLE	HCH	Vertical	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	4920.2400	40.62	5.20	45.82	74.00	-28.18	peak
2	7063.6330	38.48	8.18	46.66	74.00	-27.34	peak
3	11146.0183	37.12	11.92	49.04	74.00	-24.96	peak
4	17139.2674	36.99	18.26	55.25	74.00	-18.75	peak
		27.57	18.26	45.83	54.00	-8.17	average
5	17709.3387	37.63	17.63	55.26	74.00	-18.74	peak
		26.97	17.63	44.60	54.00	-9.40	average
6	17896.8621	36.31	18.45	54.76	74.00	-19.24	peak
		26.29	18.45	44.74	54.00	-9.26	average

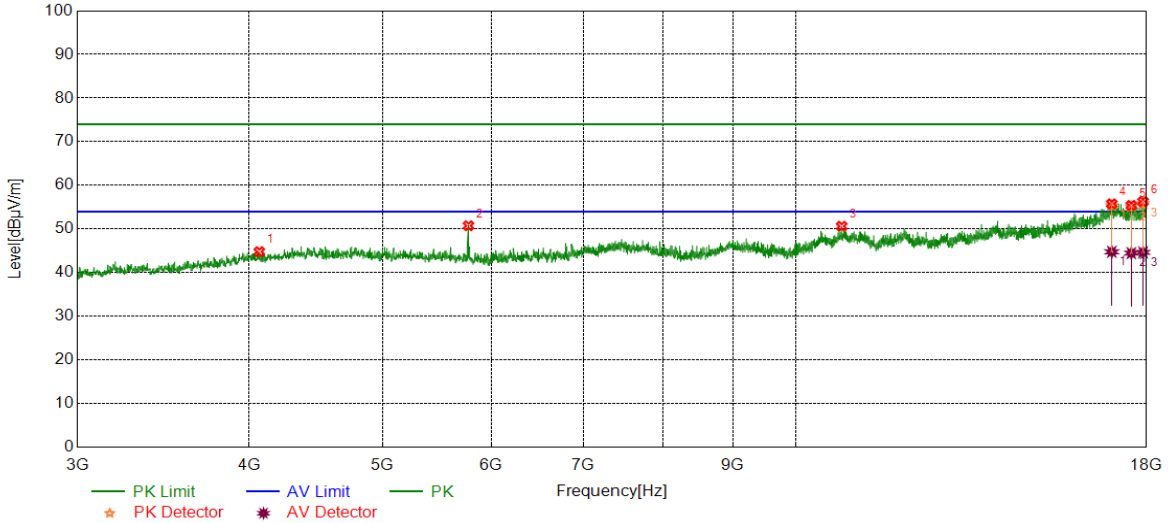
- Note: 1. Measurement = Reading Level + Correct Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.  
 4. Peak: Peak detector.  
 5. AVG: VBW refer to section 7.1.  
 6. For above 3GHz part, filter 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.



**For 2M Part:**

**HARMONICS AND SPURIOUS EMISSIONS**

Test Mode	Channel	Polarization	Verdict
BLE	LCH	Horizontal	PASS

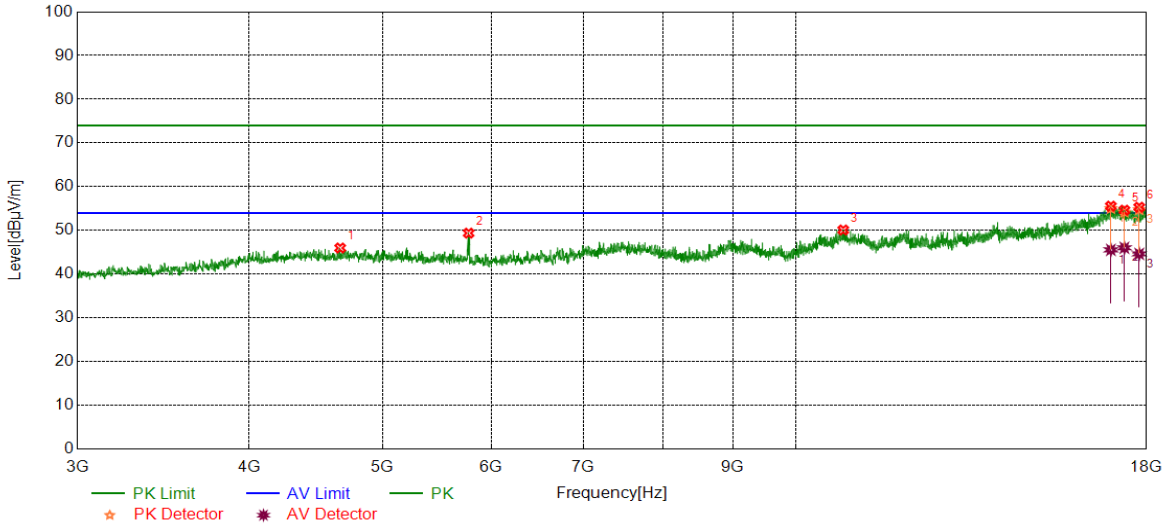


No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	4068.8836	40.41	4.39	44.80	74.00	-29.20	peak
2	5777.2222	45.44	5.31	50.75	74.00	-23.25	peak
3	10799.0999	38.59	12.04	50.63	74.00	-23.37	peak
4	16981.7477	37.00	18.76	55.76	74.00	-18.24	peak
		26.01	18.76	44.77	54.00	-9.23	average
5	17546.1933	37.58	17.82	55.40	74.00	-18.60	peak
		26.65	17.82	44.47	54.00	-9.53	average
6	17894.9869	37.79	18.48	56.27	74.00	-17.73	peak
		26.16	18.48	44.64	54.00	-9.36	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. 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.



Test Mode	Channel	Polarization	Verdict
BLE	LCH	Vertical	PASS

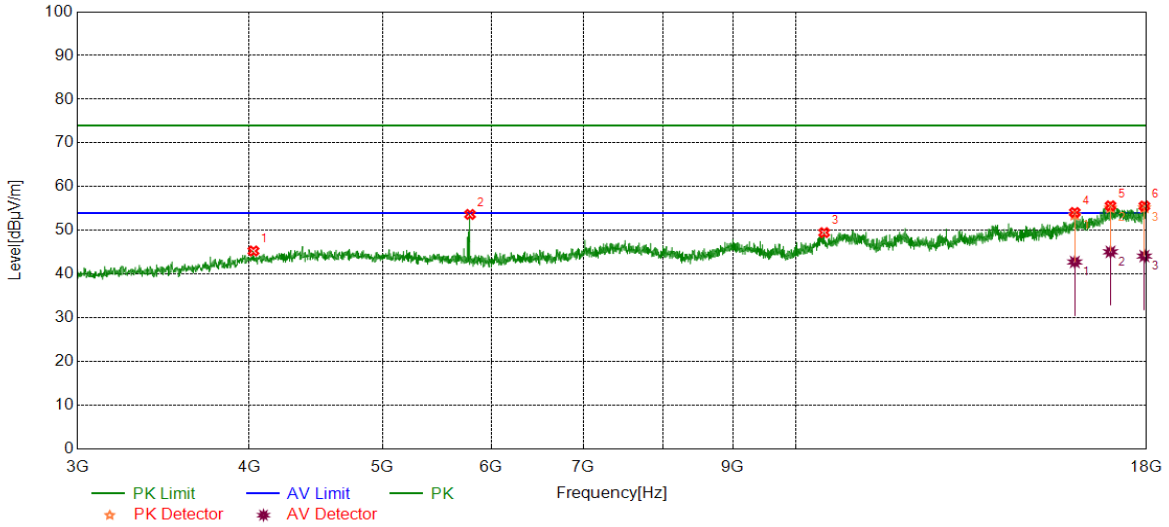


No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	4659.5824	40.43	5.55	45.98	74.00	-28.02	peak
2	5779.0974	44.08	5.30	49.38	74.00	-24.62	peak
3	10827.2284	38.01	12.09	50.10	74.00	-23.90	peak
4	16955.4944	37.03	18.52	55.55	74.00	-18.45	peak
		27.03	18.52	45.55	54.00	-8.45	average
5	17343.6680	36.94	17.69	54.63	74.00	-19.37	peak
		28.33	17.69	46.02	54.00	-7.98	average
6	17780.5976	36.99	18.31	55.30	74.00	-18.70	peak
		26.33	18.31	44.64	54.00	-9.36	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. 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.



Test Mode	Channel	Polarization	Verdict
BLE	MCH	Horizontal	PASS

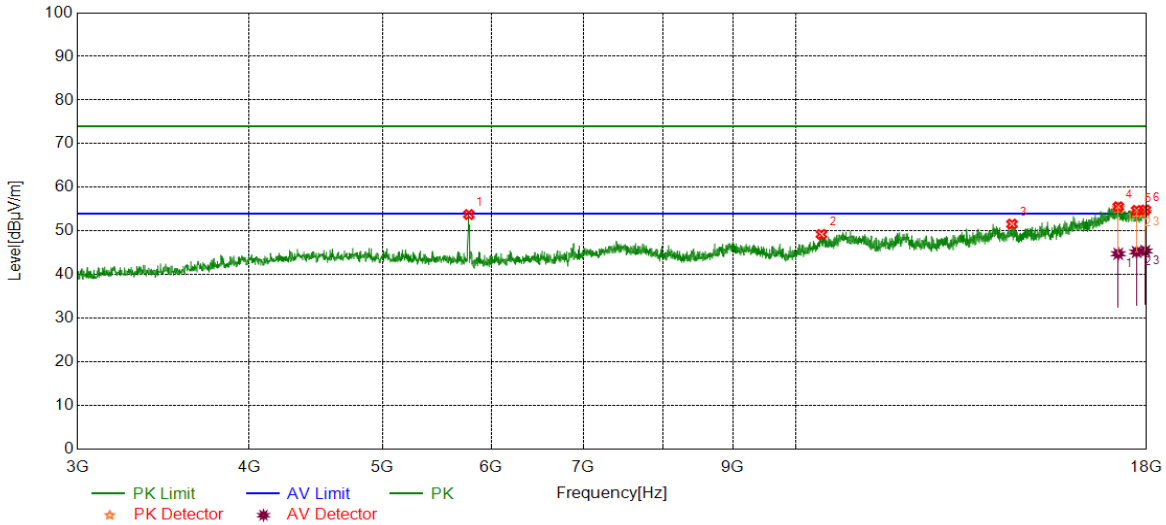


No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	4029.5037	40.89	4.41	45.30	74.00	-28.70	peak
2	5792.2240	48.39	5.27	53.66	74.00	-20.34	peak
3	10485.9357	37.87	11.63	49.50	74.00	-24.50	peak
4	15959.7450	38.10	16.01	54.11	74.00	-19.89	peak
		26.77	16.01	42.78	54.00	-11.22	average
5	16944.2430	37.22	18.41	55.63	74.00	-18.37	peak
		26.69	18.41	45.10	54.00	-8.90	average
6	17934.3668	37.38	18.20	55.58	74.00	-18.42	peak
		25.93	18.20	44.13	54.00	-9.87	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. 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.



Test Mode	Channel	Polarization	Verdict
BLE	MCH	Vertical	PASS

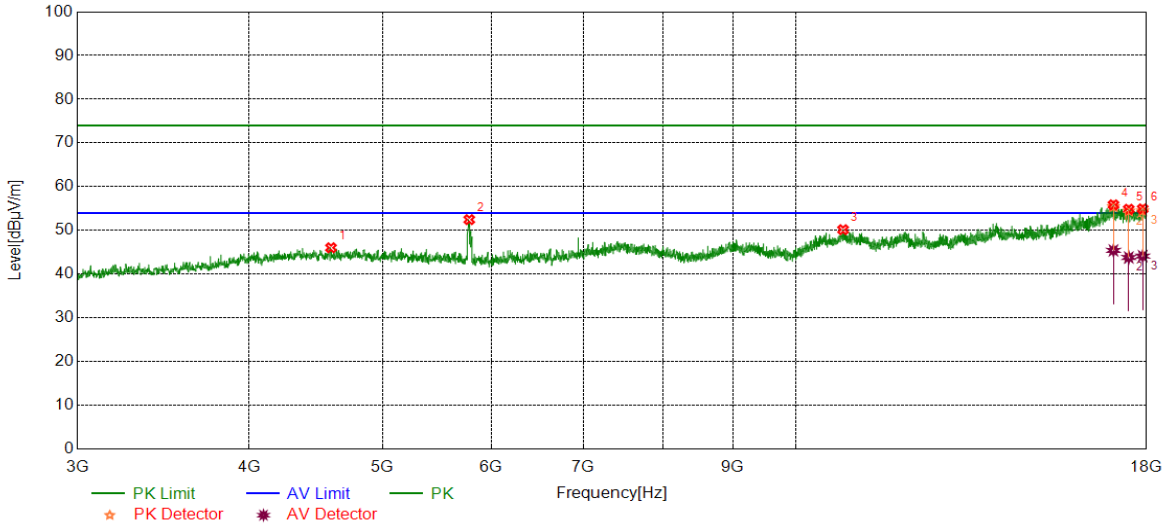


No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	5780.9726	48.49	5.29	53.78	74.00	-20.22	peak
2	10439.0549	37.89	11.35	49.24	74.00	-24.76	peak
3	14365.7957	37.78	13.81	51.59	74.00	-22.41	peak
4	17165.5207	37.26	18.31	55.57	74.00	-18.43	peak
		26.48	18.31	44.79	54.00	-9.21	average
5	17703.7130	37.02	17.71	54.73	74.00	-19.27	peak
		27.50	17.71	45.21	54.00	-8.79	average
6	17962.4953	36.56	18.27	54.83	74.00	-19.17	peak
		27.15	18.27	45.42	54.00	-8.58	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. 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.



Test Mode	Channel	Polarization	Verdict
BLE	HCH	Horizontal	PASS

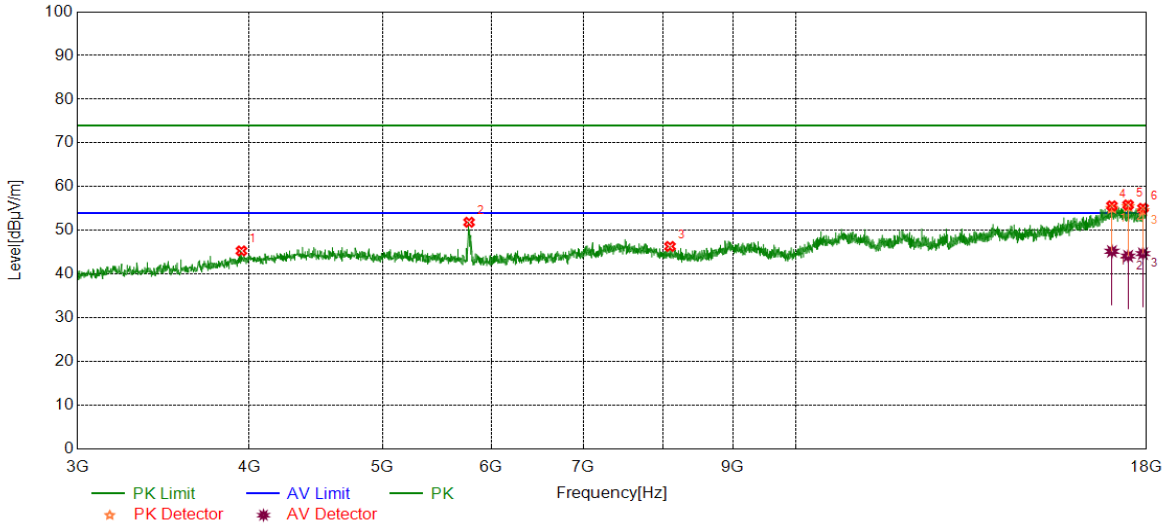


No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	4588.3235	40.58	5.46	46.04	74.00	-27.96	peak
2	5784.7231	47.21	5.26	52.47	74.00	-21.53	peak
3	10823.4779	38.01	12.16	50.17	74.00	-23.83	peak
4	17028.6286	36.92	18.94	55.86	74.00	-18.14	peak
		26.49	18.94	45.43	54.00	-8.57	average
5	17471.1839	37.09	17.76	54.85	74.00	-19.15	peak
		26.06	17.76	43.82	54.00	-10.18	average
6	17883.7355	36.63	18.30	54.93	74.00	-19.07	peak
		25.83	18.30	44.13	54.00	-9.87	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. 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.



Test Mode	Channel	Polarization	Verdict
BLE	HCH	Vertical	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	3948.8686	40.93	4.39	45.32	74.00	-28.68	peak
2	5782.8479	46.60	5.27	51.87	74.00	-22.13	peak
3	8098.7623	38.97	7.37	46.34	74.00	-27.66	peak
4	16985.4982	36.85	18.77	55.62	74.00	-18.38	peak
		26.45	18.77	45.22	54.00	-8.78	average
5	17452.4316	37.97	17.86	55.83	74.00	-18.17	peak
		26.28	17.86	44.14	54.00	-9.86	average
6	17891.2364	36.55	18.53	55.08	74.00	-18.92	peak
		26.17	18.53	44.70	54.00	-9.30	average

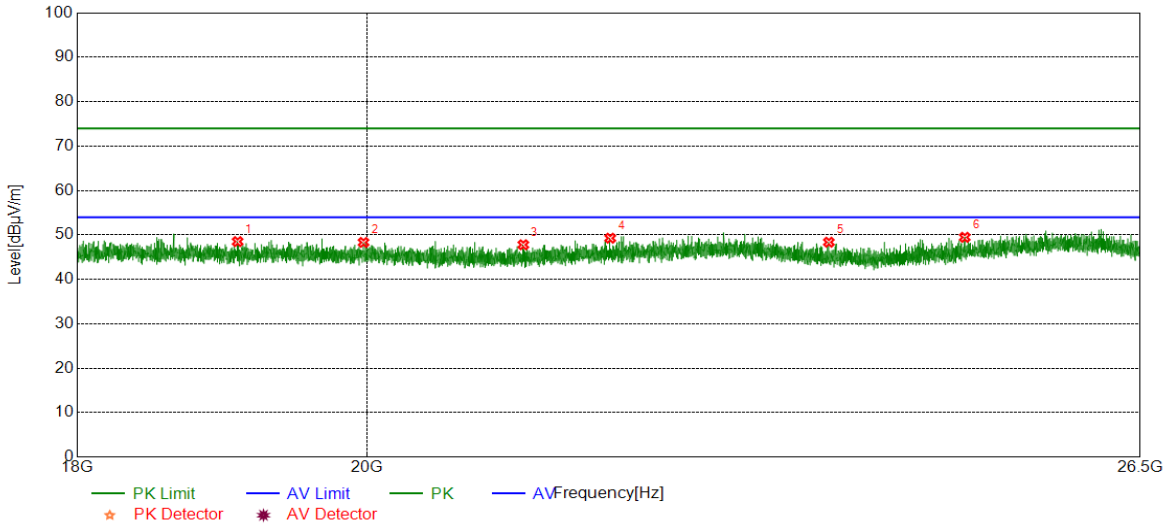
- Note: 1. Measurement = Reading Level + Correct Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.  
 4. Peak: Peak detector.  
 5. AVG: VBW refer to section 7.1.  
 6. For above 3GHz part, filter 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.



**Part III: 18GHz~26.5GHz**

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

Test Mode	Channel	Polarization	Verdict
BLE-2M	MCH	Horizontal	PASS



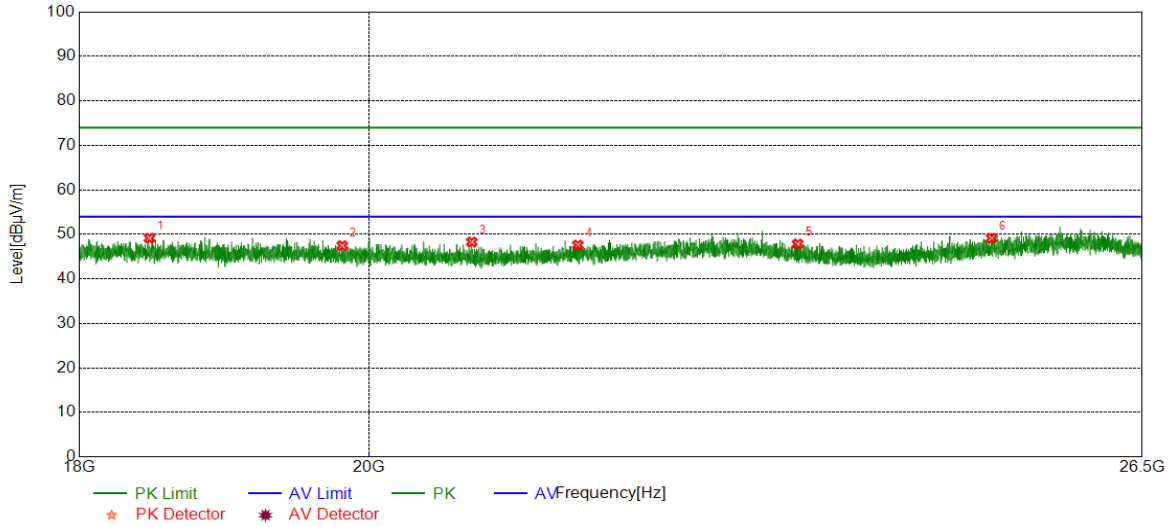
No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	19080.4580	49.57	-1.06	48.51	74.00	-25.49	peak
2	19975.5976	48.85	-0.53	48.32	74.00	-25.68	peak
3	21171.6672	48.63	-0.84	47.79	74.00	-26.21	peak
4	21852.5853	49.30	-0.03	49.27	74.00	-24.73	peak
5	23662.4162	48.87	-0.50	48.37	74.00	-25.63	peak
6	24862.7363	49.59	-0.12	49.47	74.00	-24.53	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.  
 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
BLE-2M	MCH	Vertical	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	18464.9965	50.09	-0.95	49.14	74.00	-24.86	peak
2	19807.2807	48.09	-0.62	47.47	74.00	-26.53	peak
3	20763.6264	49.17	-0.88	48.29	74.00	-25.71	peak
4	21580.5581	48.01	-0.40	47.61	74.00	-26.39	peak
5	23378.4878	47.63	0.22	47.85	74.00	-26.15	peak
6	25088.0088	48.95	0.17	49.12	74.00	-24.88	peak

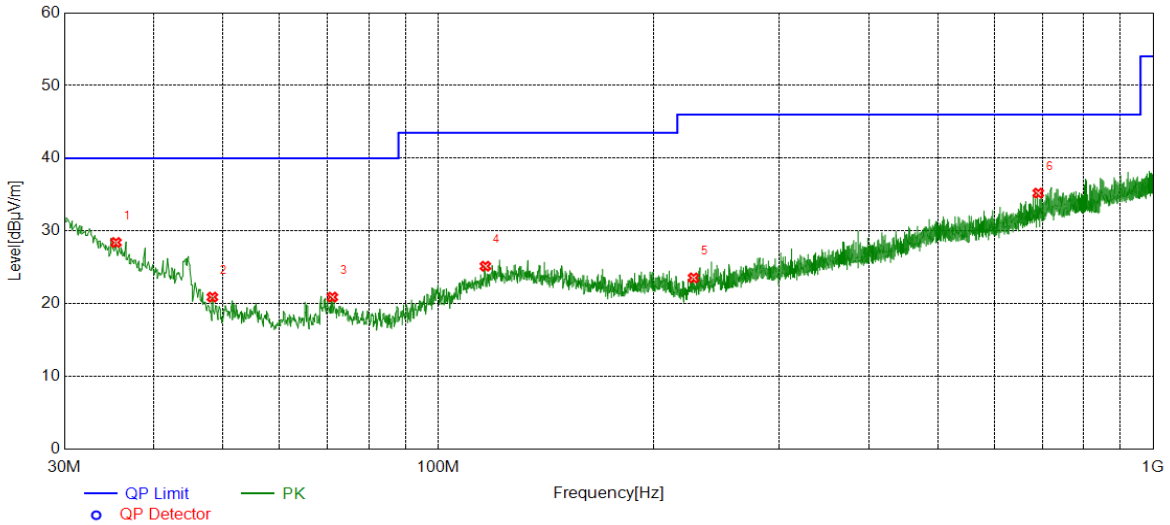
- Note: 1.If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.  
 3. Measurement = Reading Level + Correct Factor.  
 4. Only the worst case emission was recorded, if it complies with the limit, the other emissions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



**Part III: 30MHz~1GHz**

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

Test Mode	Channel	Polarization	Verdict
BLE-2M	MCH	Horizontal	PASS

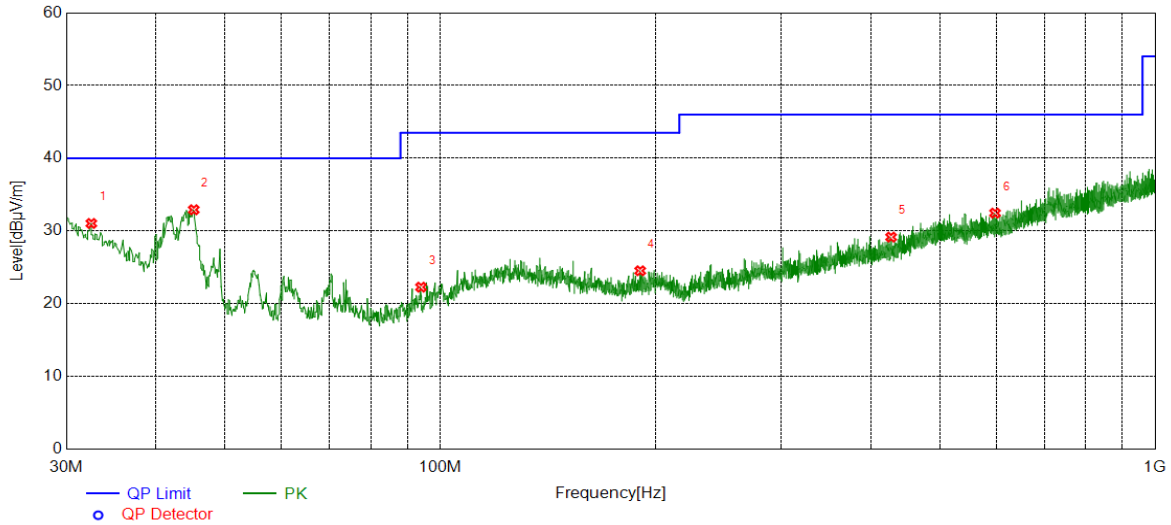


No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	35.4325	4.82	23.60	28.42	40.00	-11.58	peak
2	48.3348	5.33	15.58	20.91	40.00	-19.09	peak
3	71.1321	6.19	14.72	20.91	40.00	-19.09	peak
4	116.4356	5.40	19.76	25.16	43.50	-18.34	peak
5	227.6088	5.47	18.08	23.55	46.00	-22.45	peak
6	690.7331	6.81	28.40	35.21	46.00	-10.79	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
BLE-2M	MCH	Vertical	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	32.5223	5.60	25.44	31.04	40.00	-8.96	peak
2	45.2305	15.45	17.47	32.92	40.00	-7.08	peak
3	94.0264	6.85	15.43	22.28	43.50	-21.22	peak
4	190.4540	5.97	18.56	24.53	43.50	-18.97	peak
5	427.2547	5.47	23.69	29.16	46.00	-16.84	peak
6	597.1187	5.93	26.53	32.46	46.00	-13.54	peak

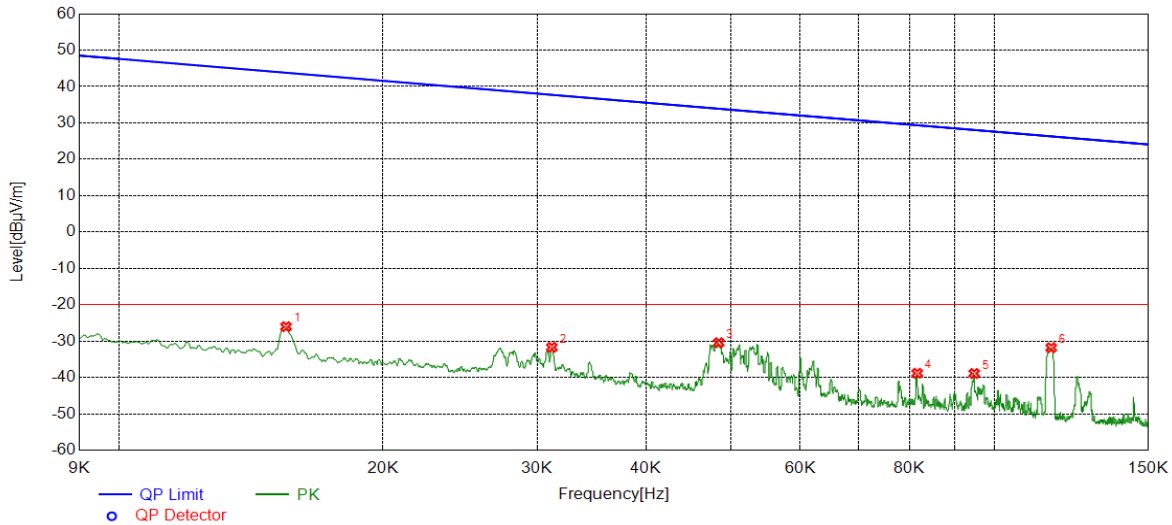
- Note: 1. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.  
 2. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.  
 3. Measurement = Reading Level + Correct Factor.



**Part IV: 9KHz~30MHz**

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

Test Mode	Channel	Frequency Range	Verdict
BLE-2M	MCH	9KHz~150KHz	PASS

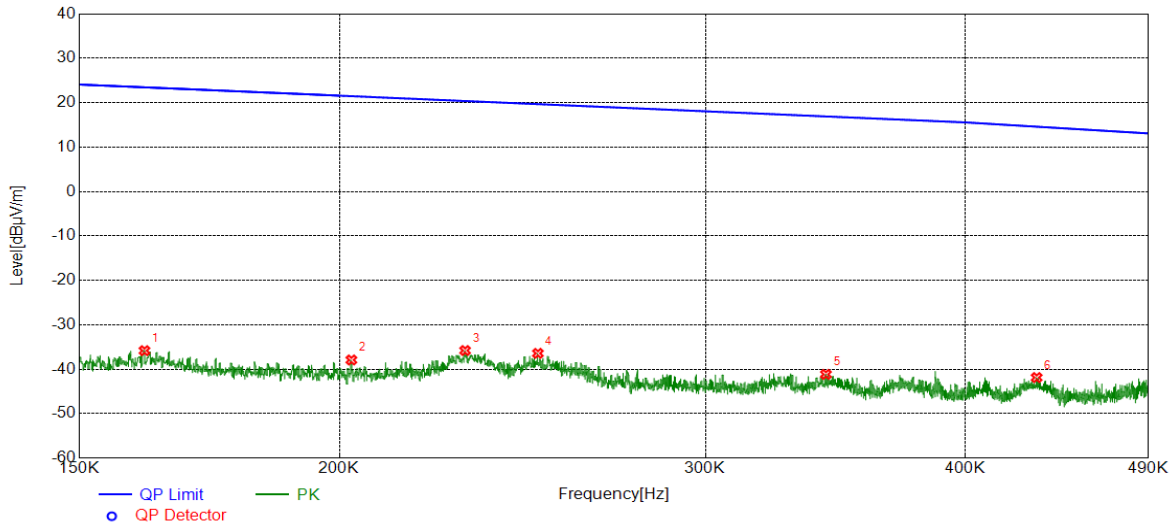


No.	Frequency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	FCC Result (dBuV/m)	FCC Limit (dBuV/m)	IC Result (dBuA/m)	IC Limit (dBuA/m)	Margin (dB)	Remark
1	0.0155	34.95	-60.98	-26.03	43.80	-77.53	-7.70	-69.83	peak
2	0.0312	29.21	-60.92	-31.71	37.71	-83.21	-13.79	-69.42	peak
3	0.0484	30.58	-61.03	-30.45	33.90	-81.95	-17.60	-64.35	peak
4	0.0816	22.40	-61.24	-38.84	29.37	-90.34	-22.13	-68.21	peak
5	0.0948	21.97	-60.87	-38.90	28.07	-90.40	-23.43	-66.97	peak
6	0.1161	29.09	-60.91	-31.82	26.30	-83.32	-25.20	-58.12	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
  5. 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 377 ohm; 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.



Test Mode	Channel	Frequency Range	Verdict
BLE-2M	MCH	150KHz~490KHz	PASS

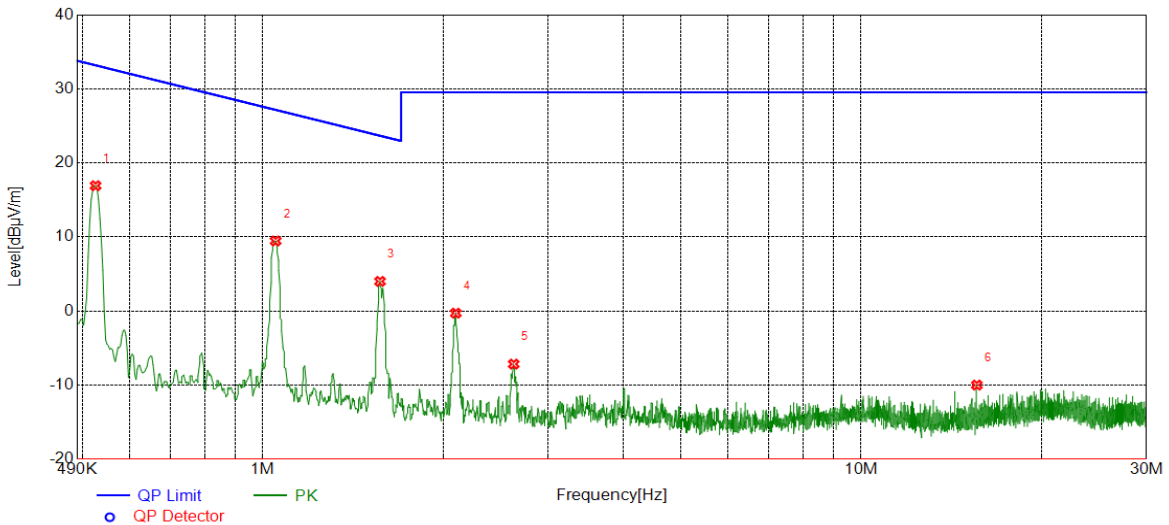


No.	Frequency	Reading Level	Correct Factor	FCC Result	FCC Limit	IC Result	IC Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dBuA/m)	(dBuA/m)	(dB)	
1	0.1612	25.44	-61.26	-35.82	23.46	-87.32	-28.04	-59.28	peak
2	0.2027	23.14	-61.05	-37.91	21.46	-89.41	-30.04	-59.37	peak
3	0.2299	25.12	-60.91	-35.79	20.37	-87.29	-31.13	-56.16	peak
4	0.2492	24.39	-60.81	-36.42	19.67	-87.92	-31.83	-56.09	peak
5	0.3428	19.58	-60.73	-41.15	16.90	-92.65	-34.60	-58.05	peak
6	0.4329	18.78	-60.65	-41.87	14.59	-93.37	-36.91	-56.46	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
  5. 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 377 ohm;. 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.



Test Mode	Channel	Frequency Range	Verdict
BLE-2M	MCH	490KHz~30MHz	PASS



No.	Frequency	Reading Level	Correct Factor	FCC Result	FCC Limit	IC Result	IC Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dBuA/m)	(dBuA/m)	(dB)	
1	0.5254	37.52	-20.60	16.92	33.19	-34.58	-18.31	-16.27	peak
2	1.0507	29.81	-20.35	9.46	27.17	-42.04	-24.33	-17.71	peak
3	1.5702	24.27	-20.27	4.00	23.68	-47.50	-27.82	-19.68	peak
4	2.1014	19.94	-20.23	-0.29	29.54	-51.79	-21.96	-29.83	peak
5	2.6267	13.21	-20.38	-7.17	29.54	-58.67	-21.96	-36.71	peak
6	15.6124	9.05	-19.05	-10.00	29.54	-61.5	-21.96	-39.54	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
  5. 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 377 ohm. 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.

Note: All constructions and test modes and channels have been tested, only the worst data record in the report.

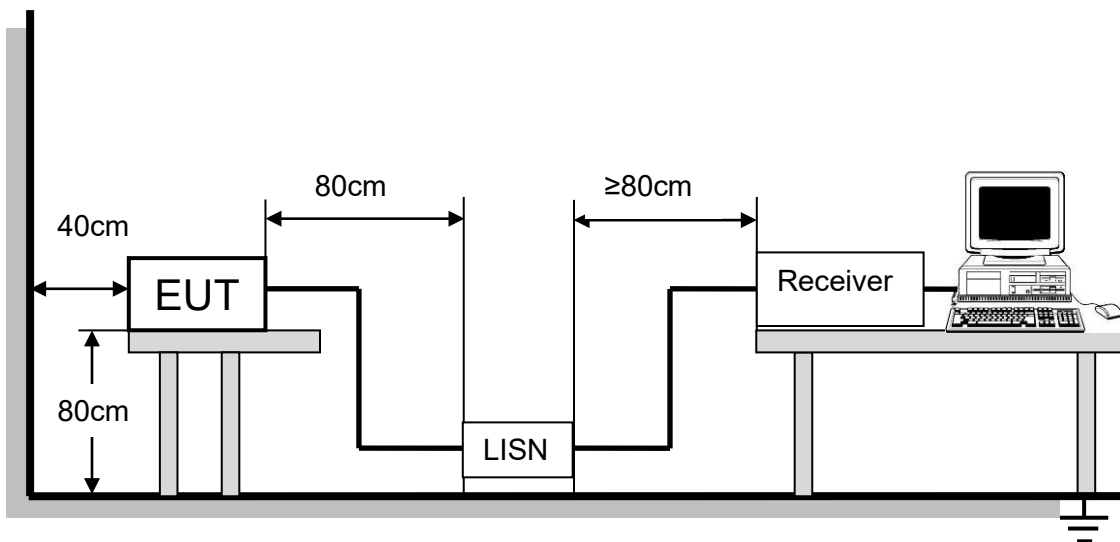
## 8. AC POWER LINE CONDUCTED EMISSIONS

### LIMITS

Please refer to FCC §15.207 (a) , ISED 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



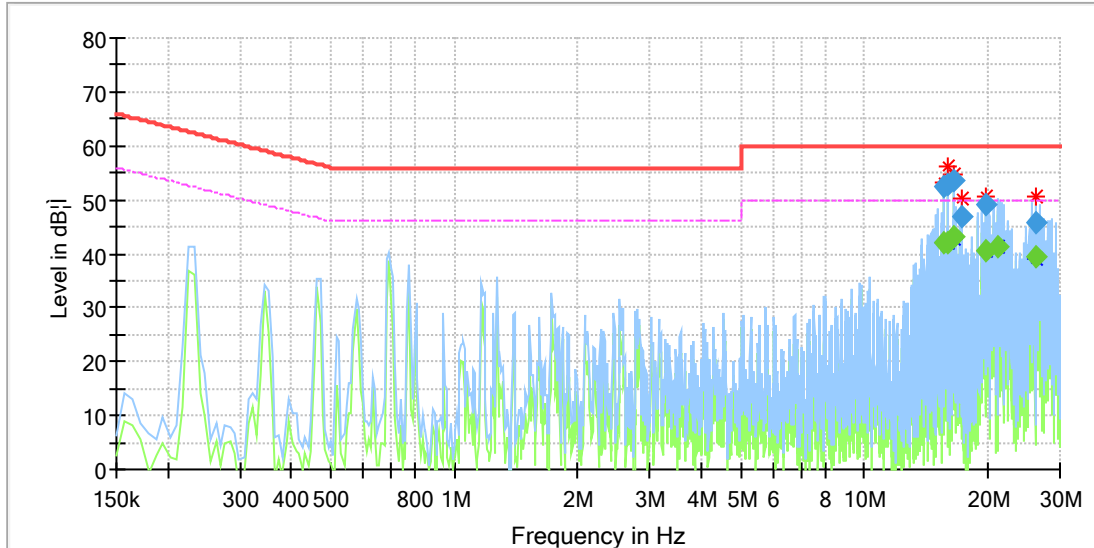
The EUT is put on a table of non-conducting material that is 80cm high. The vertical conducting wall of shielding is located 40cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI Measurement Receiver (R&S Test Receiver ESR3)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

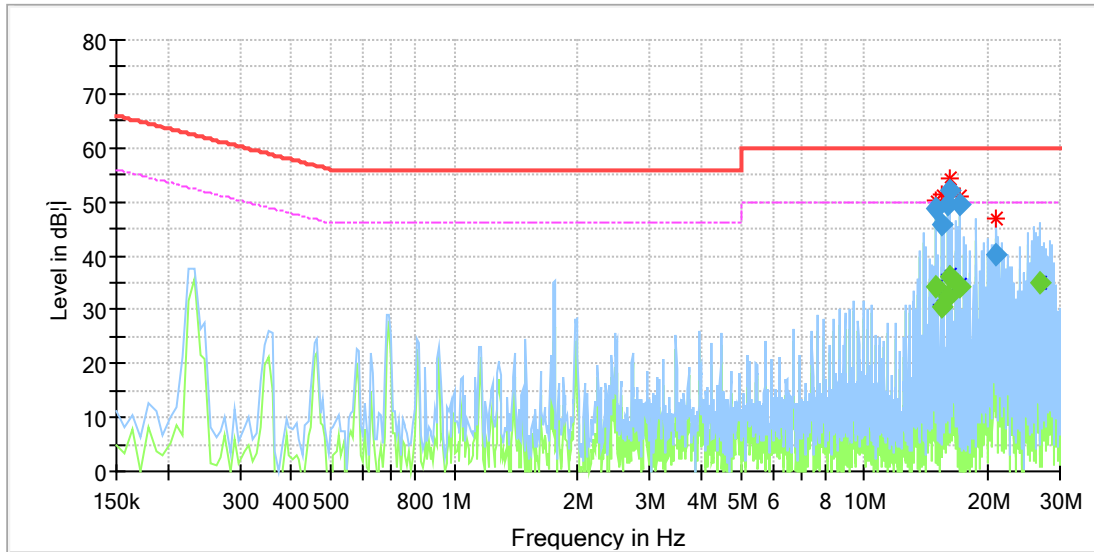
Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
15.560063	---	42.06	50.00	7.94	1000.0	9.000	L1	OFF	9.5
15.560063	52.32	---	60.00	7.68	1000.0	9.000	L1	OFF	9.5
16.037663	---	41.90	50.00	8.10	1000.0	9.000	L1	OFF	9.5
16.037663	52.75	---	60.00	7.25	1000.0	9.000	L1	OFF	9.5
16.560038	---	42.99	50.00	7.01	1000.0	9.000	L1	OFF	9.5
16.560038	53.71	---	60.00	6.29	1000.0	9.000	L1	OFF	9.5
17.283900	47.01	---	60.00	12.99	1000.0	9.000	L1	OFF	9.6
19.880850	---	40.59	50.00	9.41	1000.0	9.000	L1	OFF	9.6
19.880850	49.05	---	60.00	10.95	1000.0	9.000	L1	OFF	9.6
21.082313	---	41.13	50.00	8.87	1000.0	9.000	L1	OFF	9.7
26.283675	---	39.29	50.00	10.71	1000.0	9.000	L1	OFF	10.0
26.283675	45.67	---	60.00	14.33	1000.0	9.000	L1	OFF	10.0

- 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 channels, and find the MCH of BLE-2M 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)
14.918288	---	34.36	50.00	15.64	1000.0	9.000	N	OFF	9.5
14.918288	48.88	---	60.00	11.12	1000.0	9.000	N	OFF	9.5
15.403350	---	30.60	50.00	19.40	1000.0	9.000	N	OFF	9.5
15.403350	45.79	---	60.00	14.21	1000.0	9.000	N	OFF	9.5
15.918263	---	32.54	50.00	17.46	1000.0	9.000	N	OFF	9.5
15.918263	49.33	---	60.00	10.67	1000.0	9.000	N	OFF	9.5
16.157063	52.02	---	60.00	7.98	1000.0	9.000	N	OFF	9.5
16.157063	---	36.23	50.00	13.77	1000.0	9.000	N	OFF	9.5
17.157038	49.41	---	60.00	10.59	1000.0	9.000	N	OFF	9.6
17.157038	---	34.34	50.00	15.66	1000.0	9.000	N	OFF	9.6
21.045000	40.32	---	60.00	19.68	1000.0	9.000	N	OFF	9.7
26.843363	---	35.10	50.00	14.90	1000.0	9.000	N	OFF	9.9

- 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 channels, and find the MCH of BLE-2M which is the worst case, so only the worst case is included in this test report.



## 9. 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 Ceramic antenna.

### ANTENNA GAIN

The antenna gain of EUT is less than 6 dBi

**END OF REPORT**