



Solutions

**CFR 47 FCC PART 15 SUBPART C
ISED RSS-210 ISSUE 10**

TEST REPORT

For

HB BLK CONNECT SOLAR DECK LT (2PK)

FCC MODEL NUMBER: NXT-1781

ISED MODEL NUMBER: NXT-1781-C

PROJECT NUMBER: 4790943647

REPORT NUMBER: 4790943647-1

FCC ID: 2BCKVBH23823

IC: 31117-BH23823

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Prepared for

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Prepared by

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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	08/26/2023	Initial Issue	

Summary of Test Results			
Clause	Test Items	FCC/ISED Rules	Test Results
1	20 dB Bandwidth and 99 % Occupied Bandwidth	CFR 47 FCC §15.215 (c) ISED RSS-Gen Clause 6.7	Pass
2	Radiated Emission	CFR 47 FCC §15.249 (a)(d)(e) ISED RSS-210 Annex B B.10 CFR 47 FCC §15.205 and §15.209 RSS-GEN Clause 8.9 RSS-GEN Clause 8.10	Pass
3	Conducted Emission Test for AC Power Port	CFR 47 FCC §15.207 RSS-GEN Clause 8.8	N/A
4	Antenna Requirement	CFR 47 FCC §15.203 ISED RSS-Gen Clause 6.8	Pass

Note 1: "N/A" denotes test is not applicable in this Test Report.
Note 2: The product is powered by battery.
Note 3: The measurement result for the sample received is <Pass> according to < CFR 47 FCC PART 15 SUBPART C, ISED RSS-210 Issue 10 and ISED RSS-GEN Issue 5 > when <Accuracy Method> decision rule is applied.

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1. ATTESTATION OF TEST RESULTS

Applicant Information	
Company Name:	Ningbo Bethlehem Electrical Appliances Co., Ltd
Address:	NO20, XIANGYUAN ROAD, BINHAI INDUSTRIAL AREA, XIDIAN TOWN, NINGHAI COUNTY, NINGBO, ZHEJIANG, CHINA
Manufacturer Information	
Company Name:	NEXTECH BRANDS LIMITED
Address:	2738 s cobb industrial blvd, Smyrna, Georgia, 30082, United States
Factory Information	
Company Name:	Ningbo Bethlehem Electrical Appliances Co., Ltd
Address:	NO20, XIANGYUAN ROAD, BINHAI INDUSTRIAL AREA, XIDIAN TOWN, NINGHAI COUNTY, NINGBO, ZHEJIANG, CHINA
EUT Description	
Product Name:	HB BLK CONNECT SOLAR DECK LT (2PK)
FCC Model Number:	NXT-1781
ISED Model Number:	NXT-1781-C
Model Difference:	/
Sample Number:	5819987
Data of Receipt Sample:	Jul. 26, 2023
Date Tested:	Jul. 26, 2023~ Aug. 20, 2023

APPLICABLE STANDARDS

STANDARD	TEST RESULTS
CFR 47 FCC PART 15 SUBPART C	PASS
ISED RSS-210 ISSUE 10	PASS
ISED RSS-GEN Issue 5	PASS

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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with KDB 414788 D01 Radiated Test Site v01r01, FCC CFR 47 Part 2, FCC CFR 47 Part 15, ANSI C63.10-2013, ISED RSS-210 Issue 10 and RSS-GEN Issue 5.

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	<p>A2LA (Certificate No.: 4829.01) UL-CCIC COMPANY LIMITED has been assessed and proved to be in compliance with A2LA.</p> <p>FCC (FCC Designation No.: CN1247) UL-CCIC COMPANY LIMITED has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules.</p> <p>IC (IC Designation No.: 25056; CAB No.: CN0073) UL-CCIC COMPANY LIMITED has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules.</p>
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Note 1: All tests measurement facilities use to collect the measurement data are located at No. 2, Chengwan Road, Suzhou Industrial Park, Suzhou 215122, China.

Note 2: For below 30MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. These measurements below 30MHz had been correlated to measurements performed on an OFS.

Note 3: The test anechoic chamber in UL-CCIC COMPANY LIMITED had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognized national standards.

4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Item	Uncertainty
Emission Bandwidth	±9.2 PPM
Unwanted Emissions in Non-restricted Freq Bands	9kHz-30MHz: ±0.90dB 30MHz-1GHz: ±1.5 dB 1GHz-12.75GHz: ±1.9dB 12.75GHz-26.5GHz: ±2.1dB
Radiation Emission test (include Fundamental emission) (9kHz-30MHz)	3.4dB
Radiation Emission test (include Fundamental emission) (30MHz-1GHz)	3.4dB
Radiation Emission test (1GHz to 26GHz) (include Fundamental emission)	3.5dB (1GHz-18GHz) 3.9dB (18GHz-26.5GHz)
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

Product Name:	HB BLK CONNECT SOLAR DECK LT (2PK)
FCC Model No.:	NXT-1781
ISED Model No.:	NXT-1781-C
Radio Technology	2.4GHz RF
Operation frequency	2420MHz~2470MHz
Modulation	GFSK
Power Supply	DC 2.5V

5.2. MAXIMUM EMISSIONS FIELD STRENGTH

Number of Transmit Chains (NTX)	Frequency (MHz)	Channel Number	Max PK Field Strength (dB μ V/m)
1	2420-2470	1-3[3]	93.76

5.3. CHANNEL LIST

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2420	2	2450	3	2470

5.4. TEST CHANNEL CONFIGURATION

Test Mode	Test Channel	Frequency
TX	CH 1, CH 2, CH 3	2420MHz, 2450MHz, 2470MHz

5.5. THE WORSE CASE CONFIGURATIONS

The Worse Case Power Setting Parameter under 2400 ~ 2483.5MHz Band			
Test Software	/		
Transmit Antenna Number	Test Channel		
	NCB: 1MHz		
1	CH 1	CH 2	CH 3
	2420	2450	2470

For the product, there is only one transmission antenna, so the test data of the transmission antenna was the worst case and recorded in the report.

Worst-case data rates as provided by the client were: 1 Mbps.

5.6. DESCRIPTION OF AVAILABLE ANTENNAS

Ant.	Frequency (MHz)	Antenna Type	Antenna Gain (dBi)
1	2420-2470	PCB Antenna	0

5.7. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Item	Equipment	Brand Name	Model Name	P/N
1	Solar Batteryx2	Solutions	NMH AA 1000	/

I/O CABLES

No.	Port	Connector Type	Cable Type	Cable Length(m)	Remarks
1	/	/	/	/	/

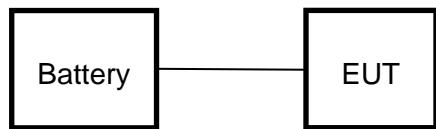
ACCESSORY

Item	Accessory	Brand Name	Model Name	Description
1	/	/	/	/

TEST SETUP

The EUT can work in an engineer mode.

SETUP DIAGRAM FOR TESTS



5.8. MEASURING INSTRUMENT AND SOFTWARE USED

Conducted Emissions (Instrument)							
Used	Equipment	Manufacturer	Model No.	Serial No.	Upper Last Cal.	Last Cal.	Next Cal.
<input checked="" type="checkbox"/>	EMI Test Receiver	R&S	ESR3	126700	2021-12-04	2022-12-03	2023-12-02
<input checked="" type="checkbox"/>	Two-Line V-Network	R&S	ENV216	126701	2021-12-04	2022-12-03	2023-12-02
<input checked="" type="checkbox"/>	Artificial Mains Networks	R&S	ENY81	126712	2021-10-12	2022-10-09	2023-10-08
Software							
Used	Description		Manufacturer	Name	Version		
<input checked="" type="checkbox"/>	Test Software for Conducted disturbance		R&S	EMC32	Ver. 9.25		
Radiated Emissions (Instrument)							
Used	Equipment	Manufacturer	Model No.	Serial No.	Upper Last Cal.	Last Cal.	Next Cal.
<input checked="" type="checkbox"/>	EMI test receiver	R&S	ESR7	222993	2022-05-20	2023-04-08	2024-04-07
<input checked="" type="checkbox"/>	EMI test receiver	R&S	ESR26	126703	2021-12-04	2022-12-03	2023-12-02
<input checked="" type="checkbox"/>	Spectrum Analyzer	R&S	FSV3044	222992	2022-05-20	2023-04-08	2024-04-07
<input checked="" type="checkbox"/>	Receiver Antenna (9kHz-30MHz)	Schwarzbeck	FMZB 1513	155456	2018-06-04	2021-06-03	2024-06-02
<input checked="" type="checkbox"/>	Receiver Antenna (30MHz-1GHz)	Schwarzbeck	VULB 9163	126704	2019-01-19	2022-01-18	2025-01-17
<input checked="" type="checkbox"/>	Receiver Antenna (1GHz-18GHz)	R&S	HF907	126705	2019-01-27	2022-02-28	2025-02-27
<input checked="" type="checkbox"/>	Receiver Antenna (18GHz-26.5GHz)	Schwarzbeck	BBHA9170	126706	2019-02-29	2022-02-28	2025-02-27
<input checked="" type="checkbox"/>	Pre-amplification (To 18GHz)	Tonscned	TAP01018050	224539	/	2022-10-20	2023-10-19
<input checked="" type="checkbox"/>	Pre-amplification (To 18GHz)	R&S	SCU-18D	134667	2021-12-04	2022-12-03	2023-12-02
<input checked="" type="checkbox"/>	Pre-amplification (To 26.5GHz)	R&S	SCU-26D	135391	2021-12-04	2022-12-03	2023-12-02
<input checked="" type="checkbox"/>	Band Reject Filter	Wainwright	WRCGV12-2375-2400-2485-2510-40SS	1	2022-05-20	2023-04-08	2024-04-07
<input checked="" type="checkbox"/>	High Pass Filter	COM-MW	ZBF13-3-18G-01	2	2022-05-20	2023-04-08	2024-04-07
Software							
Used	Description		Manufacturer	Name	Version		
<input checked="" type="checkbox"/>	Test Software for Radiated disturbance		Tonscend	TS+	Ver. 2.5		
<input checked="" type="checkbox"/>	Test Software for Radiated disturbance		Chinese-EMC	RE_RSE	Ver. 3.03		
Other instruments							
Used	Equipment	Manufacturer	Model No.	Serial No.	Upper Last Cal.	Last Cal.	Next Cal.
<input checked="" type="checkbox"/>	Spectrum Analyzer	Keysight	N9010B	155368	2022-05-20	2023-04-08	2024-04-07
<input checked="" type="checkbox"/>	Power Meter	MWT	MW100-RFCB	221694	2022-05-23	2023-04-08	2024-04-07
<input checked="" type="checkbox"/>	Attenuator	PASTERNACK	PE7087-6	1624	2022-05-23	2023-04-08	2024-04-07

6. ANTENNA PORT TEST RESULTS

6.1. ON TIME AND DUTY CYCLE

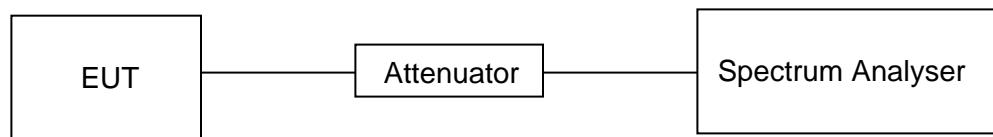
LIMITS

None; for reporting purposes only

PROCEDURE

KDB 558074 Zero-Span Spectrum Analyzer Method

TEST SETUP



TEST ENVIRONMENT

Temperature	20°C	Relative Humidity	56%
Atmosphere Pressure	101kPa	Test Voltage	DC 2.5V

RESULTS

On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T Minimum VBW (kHz)	Final setting For VBW (kHz)
0.390	4.980	0.0783	7.83%	11.1	2.56	3

Note:

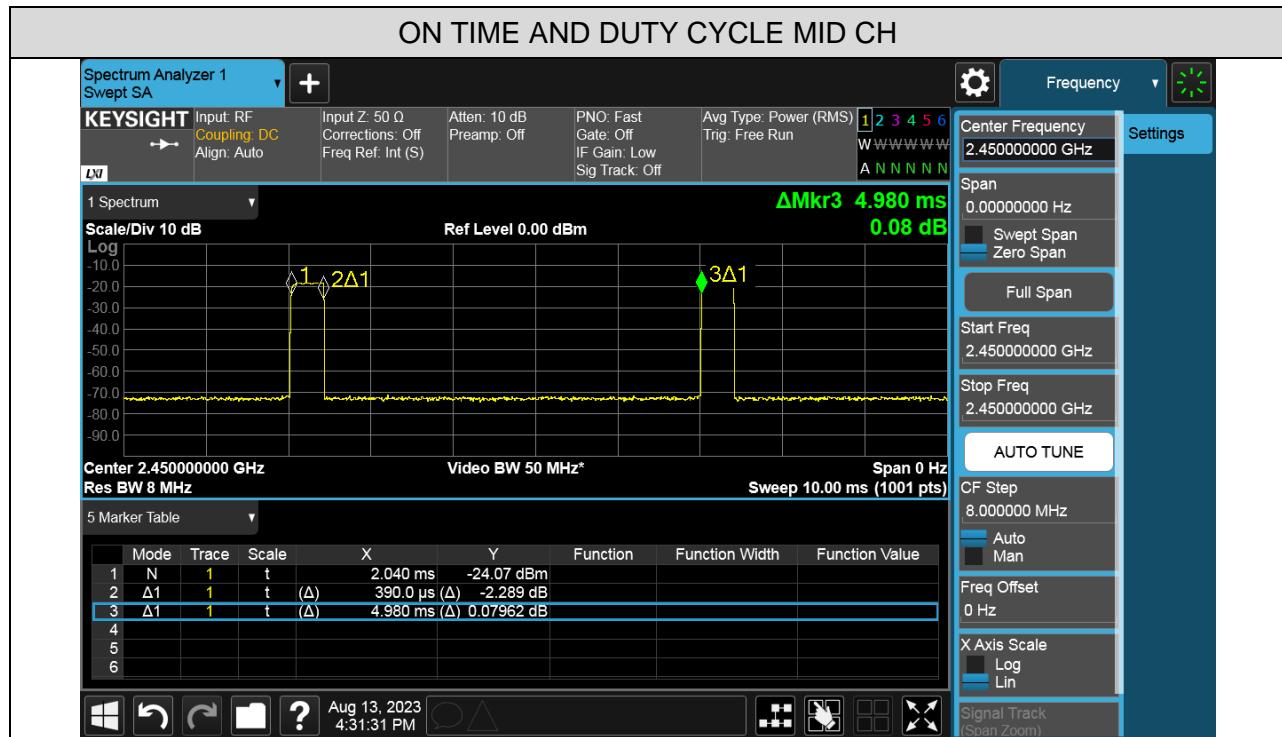
Duty Cycle Correction Factor=10log (1/x).

Where: x is Duty Cycle (Linear)

Where: T is On Time

If that calculated VBW is not available on the analyzer then the next higher value should be used.

TEST GRAPHS



6.2. 20 dB BANDWIDTH AND 99 % OCCUPIED BANDWIDTH

LIMITS

FCC Part15 (15.249) , Subpart C			
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC §15.215 (c)	20 dB Bandwidth	For reporting purposes only	2400-2483.5
ISED RSS-Gen Clause 6.7 Issue 5	99 % Occupied Bandwidth	For reporting purposes only.	2400-2483.5

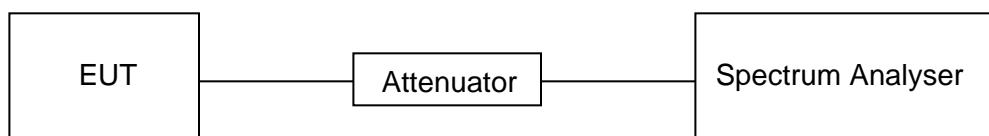
TEST PROCEDURE

Connect the UUT to the spectrum analyser and use the following settings:

Center Frequency	The centre frequency of the channel under test
Detector	Peak
RBW	For 20 dB Bandwidth: 1 % to 5 % of the 20 dB bandwidth For 99 % Occupied Bandwidth: 1 % to 5 % of the occupied bandwidth
VBW	For 20 dB Bandwidth: approximately 3xRBW For 99 % Occupied Bandwidth: $\geq 3 \times \text{RBW}$
Span	Approximately 1.5 to 5 times the OBW
Trace	Max hold
Sweep	Auto couple

Allow the trace to stabilize and measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 20 dB / 99 % relative to the maximum level measured in the fundamental emission.

TEST SETUP

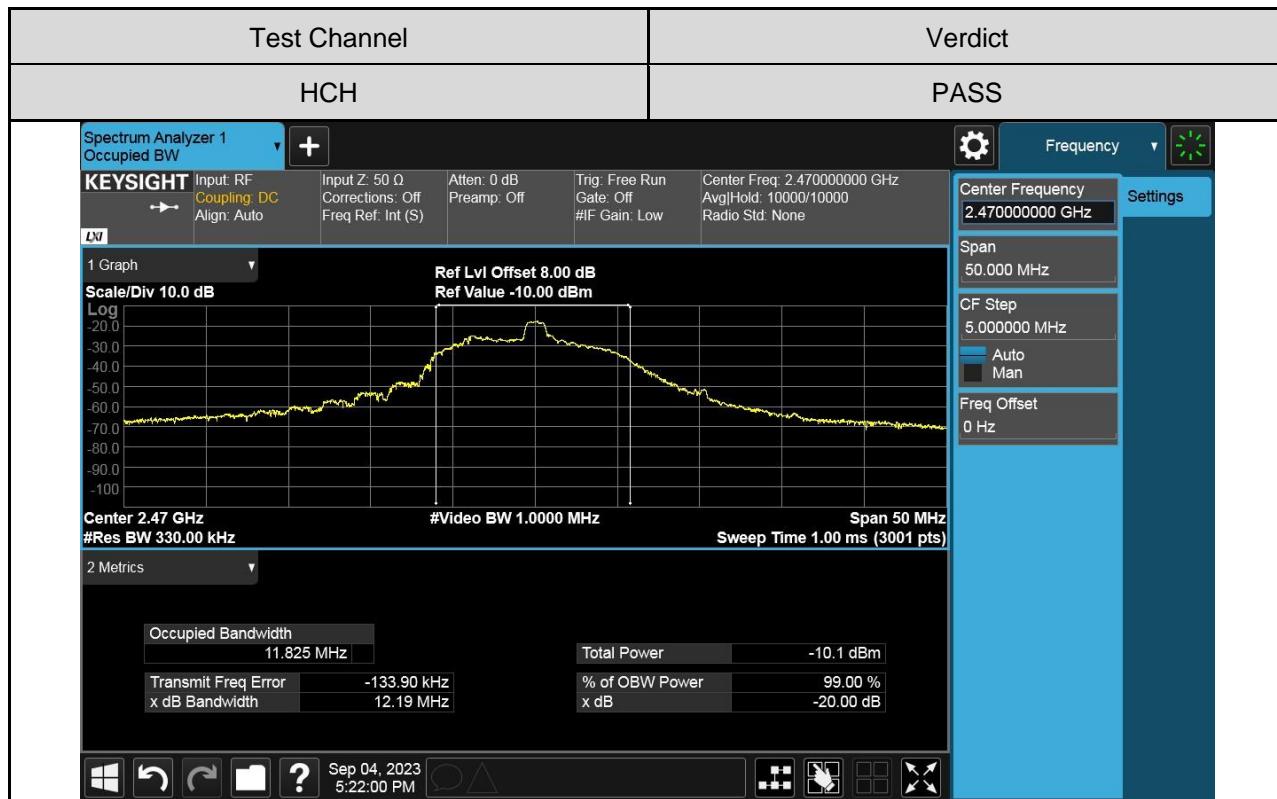


RESULTS

Channel	20dB bandwidth (MHz)	99 % bandwidth (MHz)	Result
Low	17.27	17.164	Pass
Middle	18.38	18.089	Pass
High	12.19	11.825	Pass

TEST GRAPHS





7. RADIATED TEST RESULTS

7.1. LIMITS AND PROCEDURE

LIMITS

CFR 47 FCC §15.205 and §15.209
 CFR 47 FCC §15.249 (a)(d)(c)(e)
 ISED RSS-210 Issue 10 Annex B B.10
 RSS-GEN Clause 8.9

The field strength of emissions from intentional radiators operated within these frequency bands			
Frequency (MHz)	Field strength of Fundamental	Field strength of Harmonics	Distance (m)
902 - 928	50 mV/m (94dBuV/m)	500 uV/m (54dBuV/m)	3
2400 – 2483.5	50 mV/m (94dBuV/m)	500 uV/m (54dBuV/m)	3
5725 – 5875	50 mV/m (94dBuV/m)	500 uV/m (54dBuV/m)	3

Emissions radiated outside of the specified frequency bands			
Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m	
		Quasi-Peak	Peak
30 - 88	100	40	40
88 - 216	150	43.5	43.5
216 - 960	200	46	46
Above 960	500	54	54
Above 1000	500	Average	54
		Peak	74

FCC Emissions radiated outside of the specified frequency bands below 30 MHz		
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

ISED General field strength limits at frequencies below 30 MHz

Table 6 – General field strength limits at frequencies below 30 MHz

Frequency	Magnetic field strength (H-Field) (μ A/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.

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

Table 7 – Restricted frequency bands^{Note 1}

MHz	MHz	GHz
0.090 - 0.110	149.9 - 150.05	9.0 - 9.2
0.495 - 0.505	156.52475 - 156.52525	9.3 - 9.5
2.1735 - 2.1905	156.7 - 156.9	10.6 - 12.7
3.020 - 3.026	162.0125 - 167.17	13.25 - 13.4
4.125 - 4.128	167.72 - 173.2	14.47 - 14.5
4.17725 - 4.17775	240 - 285	15.35 - 16.2
4.20725 - 4.20775	322 - 335.4	17.7 - 21.4
5.677 - 5.683	399.9 - 410	22.01 - 23.12
6.215 - 6.218	608 - 614	23.8 - 24.0
6.26775 - 6.26825	960 - 1427	31.2 - 31.8
6.31175 - 6.31225	1435 - 1626.5	36.43 - 36.5
8.291 - 8.294	1645.5 - 1646.5	Above 38.6
8.362 - 8.366	1660 - 1710	
8.37625 - 8.38675	1718.8 - 1722.2	
8.41425 - 8.41475	2200 - 2300	
12.29 - 12.293	2310 - 2380	
12.51975 - 12.52025	2483.5 - 2500	
12.57675 - 12.57725	2655 - 2900	
13.36 - 13.41	3260 - 3267	
16.42 - 16.423	3332 - 3339	
16.69475 - 16.69525	3345.8 - 3358	
16.80425 - 16.80475	3500 - 4400	
25.5 - 25.67	4500 - 5150	
37.5 - 38.25	5350 - 5460	
73 - 74.6	7250 - 7750	
74.8 - 75.2	8025 - 8500	
108 - 138		

Note 1: Certain frequency bands listed in table 7 and in bands above 38.6 GHz are designated for licence-exempt applications. These frequency bands and the requirements that apply to related devices are set out in the 200 and 300 series of RSSs.

FCC Restricted bands of operation:

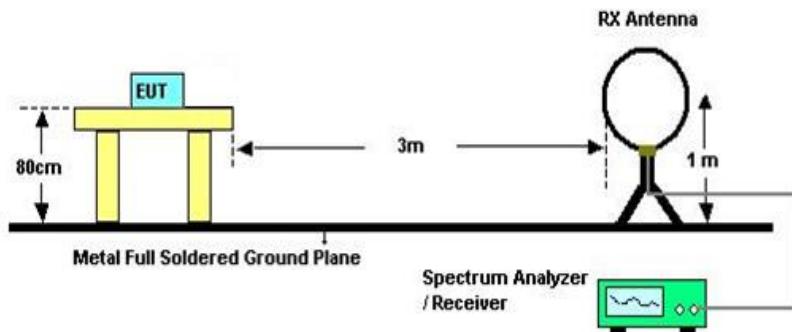
MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218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

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

²Above 38.6c

TEST SETUP AND PROCEDURE

Below 30MHz

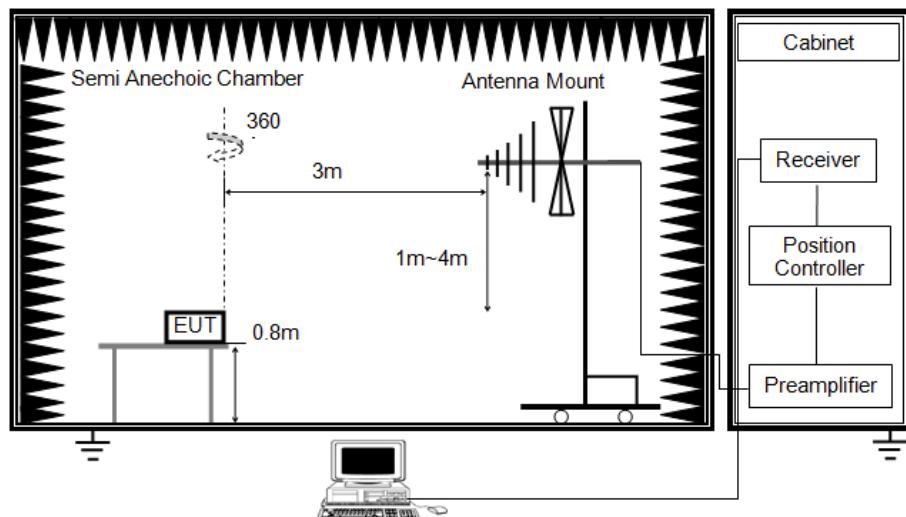


The setting of the spectrum analyser

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

1. The testing follows the guidelines in ANSI C63.10-2013
2. The EUT was arranged to its worst case and then turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both Horizontal, Face-on and Face-off polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 0.8 meter above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a 1m height antenna tower.
5. The radiated emission limits are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector
6. For measurement below 1GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
7. For the actual test configuration, please refer to the related item in this test report
(Photographs of the Test Configuration)
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 dB μ V/m, which is equivalent to $Y - 51.5 = Z$ dB μ A/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 1G

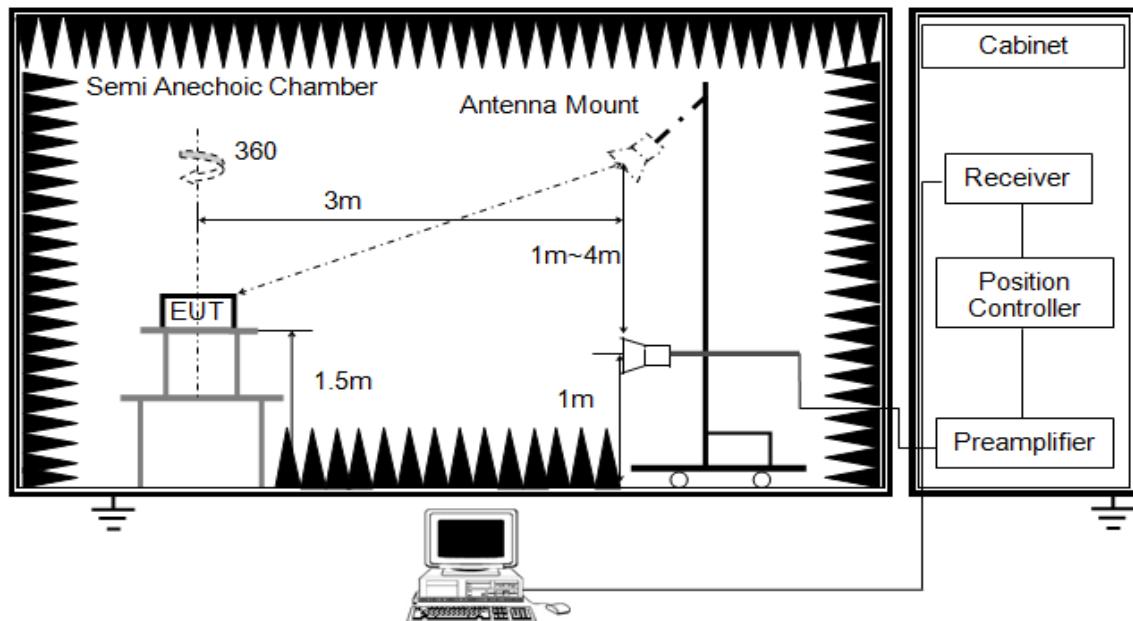


The setting of the spectrum analyser

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

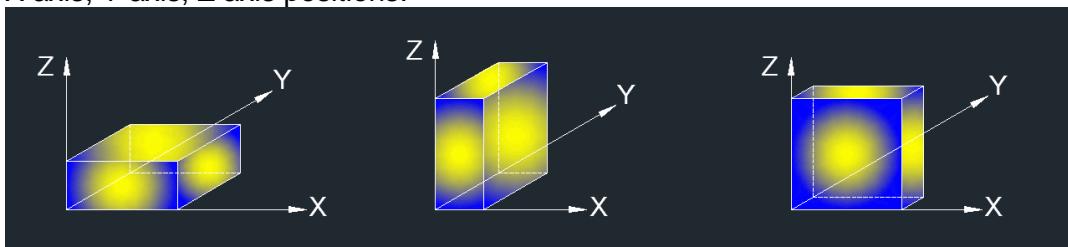


The setting of the spectrum analyser

RBW	1M
VBW	PEAK:3M AVG: See note6
Sweep	Auto
Detector	Peak
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 1.5m above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. For measurement above 1GHz, the emission measurement will be measured by the peak detector. This peak level, once corrected, must comply with the limit specified in Section 15.209.
6. For measurements above 1 GHz, the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements; and 1 MHz resolution bandwidth with video bandwidth $\geq 1/T$ but not less than the setting list in section 7.1 when use peak detector, max hold to be run for at least $[50 * (1/\text{Duty Cycle})]$ 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)

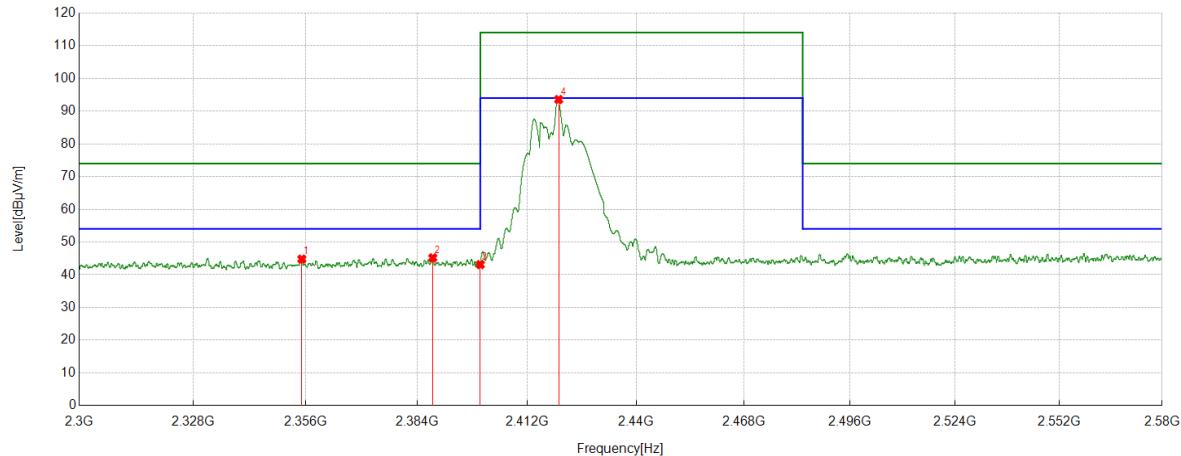
X axis, Y axis, Z axis positions:



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..

7.2. RESTRICTED BANDEDGE AND FIELD STRENGTH OF INTENTIONAL EMISSIONS

Channel	Polarization	Verdict
LCH	Horizontal	PASS



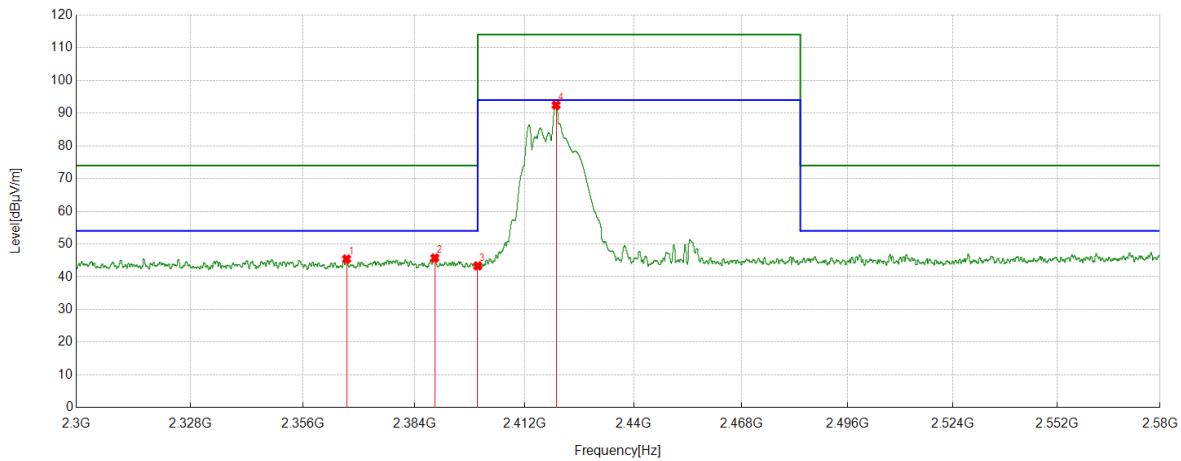
PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dB _µ V]	[dB/m]	[dB _µ V/m]	[dB _µ V/m]	[dB]	
1	2354.9919	34.90	9.90	44.80	74.00	-26.20	Horizontal
2	2387.9310	34.83	10.34	45.17	74.00	-25.83	Horizontal
3	2400.0000	32.79	10.34	43.13	74.00	-27.87	Horizontal
4	2420.0300	83.03	10.52	93.55	114.00	-20.45	Horizontal

Note:

1. Peak detector: RBW: 1 MHz, VBW: 3 MHz.
2. Average detector: RBW: 1 MHz, VBW: 1/T MHz (refer to clause 6.1.).
3. Measurement = Reading Level + Correct Factor,
Correct Factor = Antenna Factor + Loss (Cable + Attenuator) – Amplifier Gain.
4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

Channel	Polarization	Verdict
LCH	Vertical	PASS

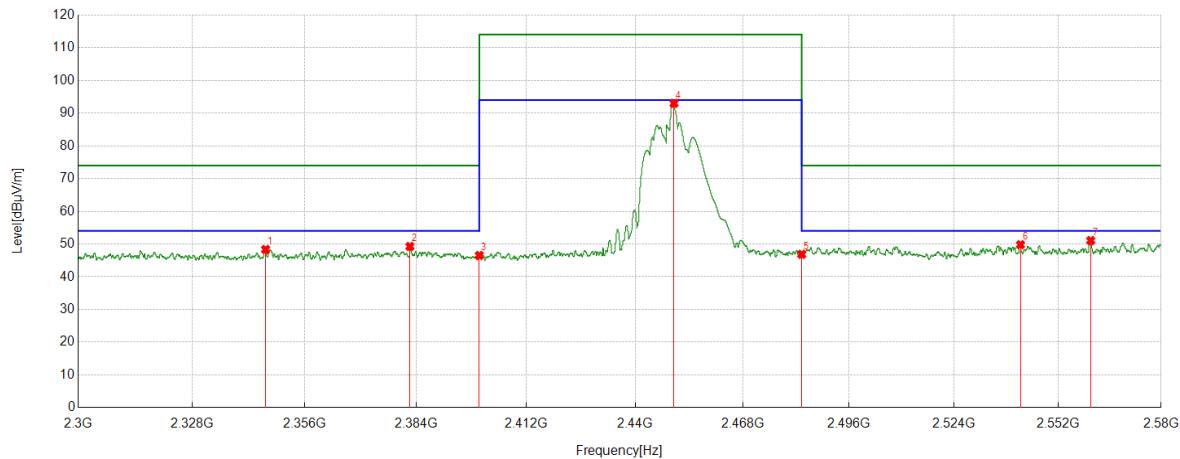

PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	2366.8934	35.37	10.06	45.43	74.00	-28.57	Vertical
2	2389.1211	35.40	10.34	45.74	74.00	-28.26	Vertical
3	2400.0000	32.97	10.34	43.31	74.00	-30.69	Vertical
4	2420.03	81.92	10.52	92.44	114.00	-21.56	Vertical

Note:

1. Peak detector: RBW: 1 MHz, VBW: 3 MHz.
2. Average detector: RBW: 1 MHz, VBW: 1/T MHz (refer to clause 6.1.).
3. Measurement = Reading Level + Correct Factor,
Correct Factor = Antenna Factor + Loss (Cable + Attenuator) – Amplifier Gain.
4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

Channel	Polarization	Verdict
MCH	Horizontal	PASS

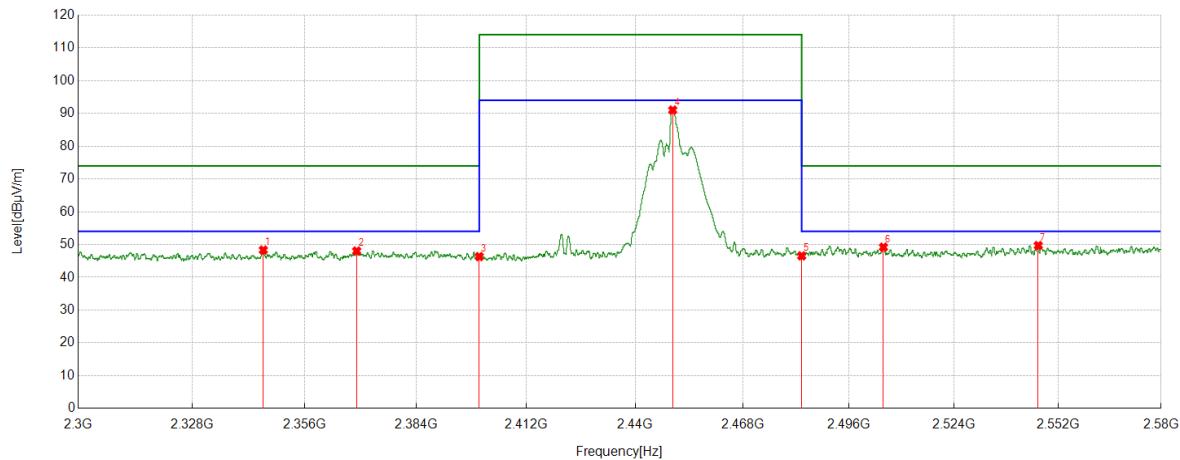

PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	2346.2058	38.46	9.88	48.34	74.00	-25.66	Horizontal
2	2382.4003	38.95	10.32	49.27	74.00	-24.73	Horizontal
3	2400.0000	36.18	10.34	46.52	74.00	-27.48	Horizontal
4	2450.0988	82.58	10.43	93.01	114.00	-20.99	Horizontal
5	2483.5000	36.22	10.64	46.86	74.00	-27.14	Horizontal
6	2541.8102	38.56	11.24	49.80	74.00	-24.20	Horizontal
7	2560.8176	40.08	10.99	51.07	74.00	-22.93	Horizontal

Note:

1. Peak detector: RBW: 1 MHz, VBW: 3 MHz.
2. Average detector: RBW: 1 MHz, VBW: 1/T MHz (refer to clause 6.1.).
3. Measurement = Reading Level + Correct Factor,
Correct Factor = Antenna Factor + Loss (Cable + Attenuator) – Amplifier Gain.
4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

Channel	Polarization	Verdict
MCH	Vertical	PASS

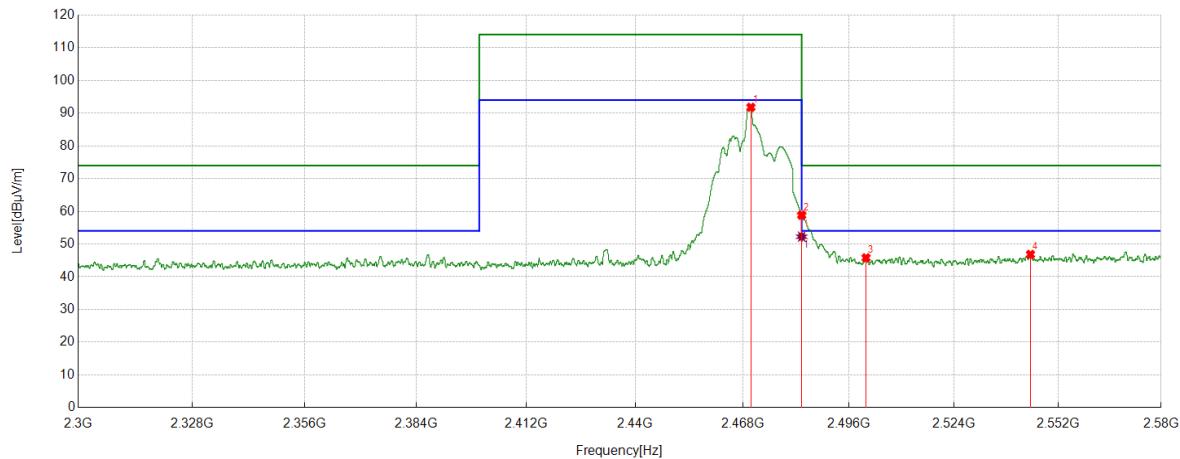

PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	2345.6457	38.44	9.88	48.32	74.00	-25.68	Vertical
2	2368.9936	37.93	10.10	48.03	74.00	-25.97	Vertical
3	2400.0000	35.99	10.34	46.33	74.00	-27.67	Vertical
4	2449.7487	80.57	10.43	91.00	114.00	-23.00	Vertical
5	2483.5000	35.90	10.64	46.54	74.00	-27.46	Vertical
6	2505.1256	38.28	10.92	49.20	74.00	-24.80	Vertical
7	2546.6058	38.60	11.10	49.70	74.00	-24.30	Vertical

Note:

1. Peak detector: RBW: 1 MHz, VBW: 3 MHz.
2. Average detector: RBW: 1 MHz, VBW: 1/T MHz (refer to clause 6.1.).
3. Measurement = Reading Level + Correct Factor,
Correct Factor = Antenna Factor + Loss (Cable + Attenuator) – Amplifier Gain.
4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

Channel	Polarization	Verdict
HCH	Horizontal	PASS


PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	2470.1563	81.17	10.63	91.80	114.00	-22.20	Horizontal
2	2483.5	48.14	10.64	58.78	74.00	-15.22	Horizontal
3	2500.5051	35.04	10.75	45.79	74.00	-28.21	Horizontal
4	2544.5056	35.68	11.16	46.84	74.00	-27.16	Horizontal

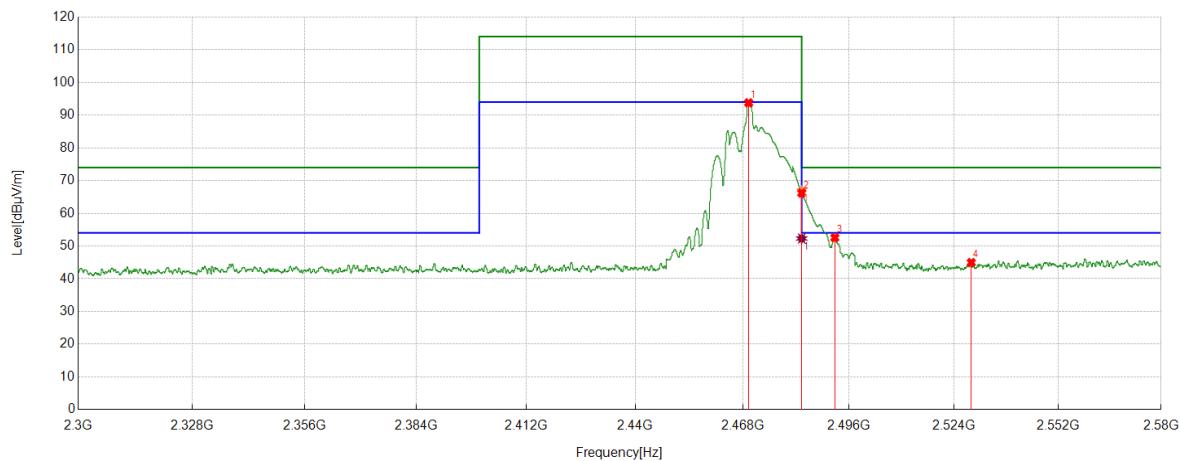
AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	2483.5	41.61	10.64	52.25	54.00	-1.75	Horizontal

Note:

1. Peak detector: RBW: 1 MHz, VBW: 3 MHz.
2. Average detector: RBW: 1 MHz, VBW: 1/T MHz (refer to clause 6.1.).
3. Measurement = Reading Level + Correct Factor,
Correct Factor = Antenna Factor + Loss (Cable + Attenuator) – Amplifier Gain.
4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

Channel	Polarization	Verdict
HCH	Vertical	PASS


PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	2469.5612	83.14	10.62	93.76	114.00	-20.24	Vertical
2	2483.5	56.34	10.64	66.98	74.00	-7.02	Vertical
3	2492.2440	41.79	10.77	52.56	74.00	-21.44	Vertical
4	2528.5786	33.67	11.29	44.96	74.00	-29.04	Vertical

AV Result:

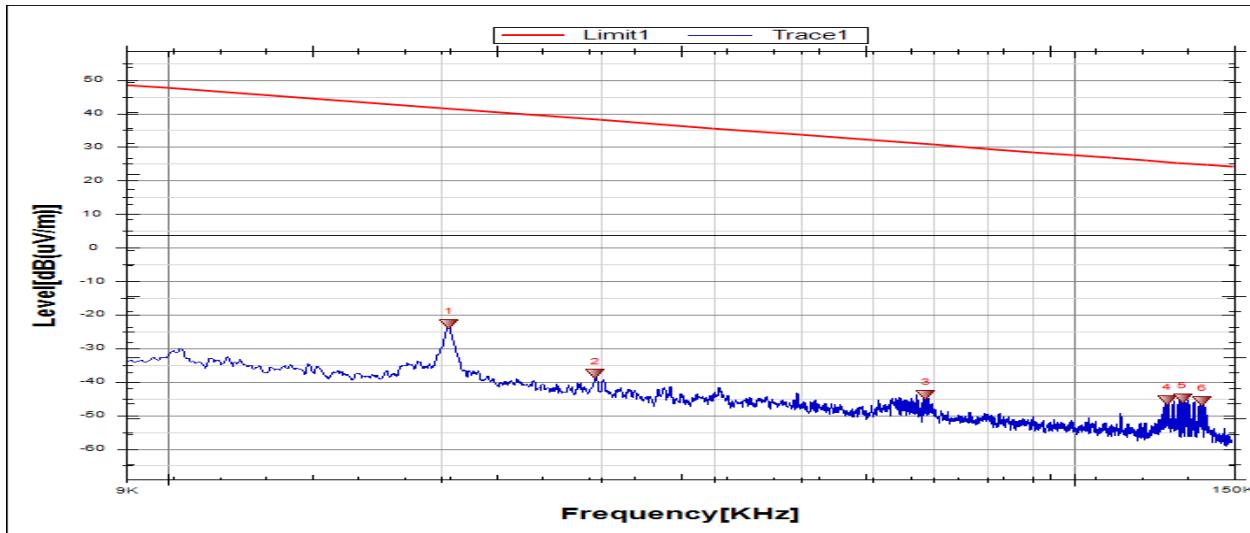
No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	2483.5	41.67	10.64	52.31	54.00	-1.69	Vertical

Note:

1. Peak detector: RBW: 1 MHz, VBW: 3 MHz.
2. Average detector: RBW: 1 MHz, VBW: 1/T MHz (refer to clause 6.1.).
3. Measurement = Reading Level + Correct Factor,
Correct Factor = Antenna Factor + Loss (Cable + Attenuator) – Amplifier Gain.
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 BELOW 30M

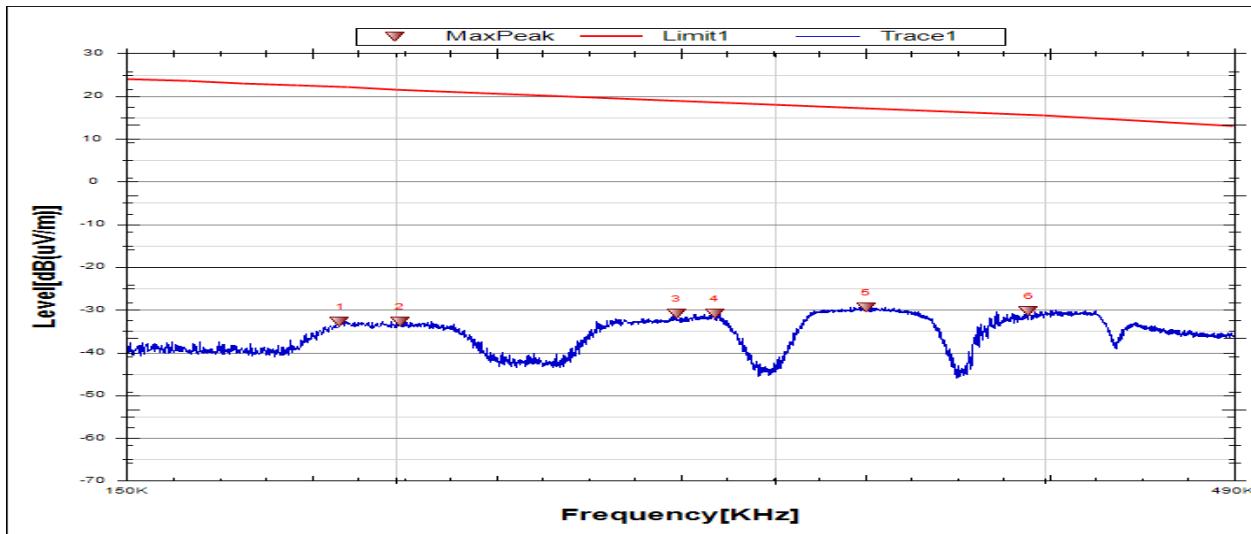
Channel	Frequency Range	Verdict
LCH	9kHz~150kHz	PASS



No.	Frequency	Reading Level	Correct Factor	FCC Result	FCC Limit	ISED Result	ISED Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dBuA/m]	[dBuA/m]	[dB]	
1	0.0204	39.13	-61.81	-22.68	41.44	-74.18	-10.06	-64.12	Peak
2	0.0296	24.09	-61.71	-37.62	38.20	-89.12	-13.30	-75.82	Peak
3	0.0686	17.92	-61.77	-43.85	30.90	-95.35	-20.60	-74.75	Peak
4	0.1265	16.31	-61.82	-45.51	25.57	-97.01	-25.93	-71.08	Peak
5	0.1316	16.87	-61.83	-44.96	25.23	-96.46	-26.27	-70.19	Peak
6	0.1384	16.07	-61.83	-45.76	24.78	-97.26	-26.72	-70.54	Peak

Note: 1. Measurement = Reading Level + Correct Factor,
 Correct Factor = Antenna Factor + Loss (Cable) + Distance Factor.
 2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.
 3. 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.

Channel	Frequency Range	Verdict
LCH	150kHz ~ 490kHz	PASS

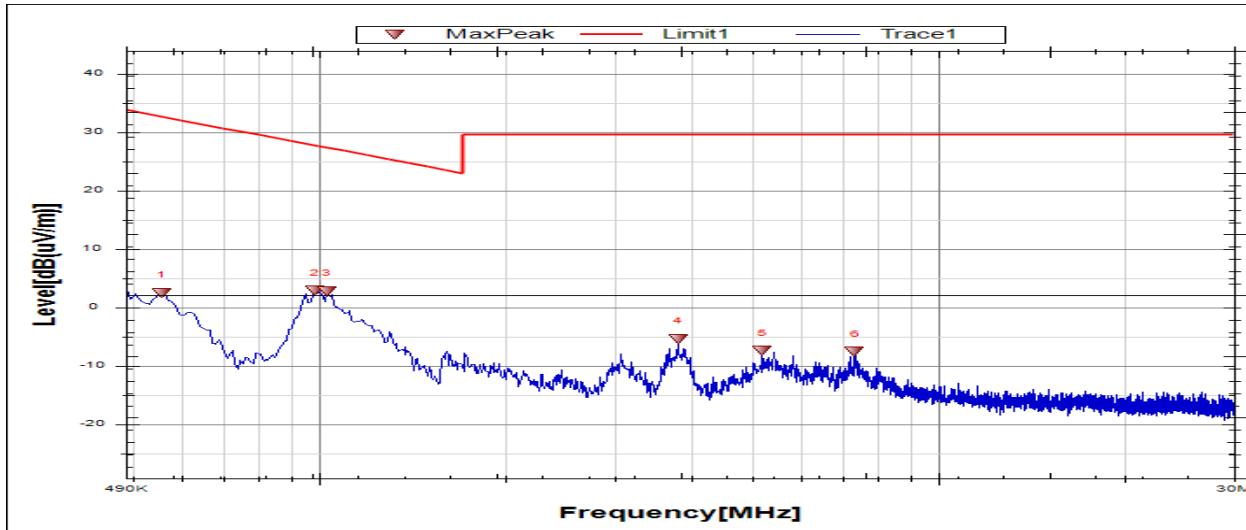


No.	Frequency	Reading Level	Correct Factor	FCC Result	FCC Limit	ISED Result	ISED Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dBuA/m]	[dBuA/m]	[dB]	
1	0.1884	29.20	-61.85	-32.65	22.11	-84.15	-29.39	-54.76	Peak
2	0.2008	29.13	-61.86	-32.73	21.55	-84.23	-29.95	-54.28	Peak
3	0.2699	30.96	-61.89	-30.93	19.12	-82.43	-32.38	-50.05	Peak
4	0.2811	30.96	-61.90	-30.94	18.73	-82.44	-32.77	-49.67	Peak
5	0.3306	32.48	-61.90	-29.42	17.29	-80.92	-34.21	-46.71	Peak
6	0.3935	31.59	-61.88	-30.29	15.72	-81.79	-35.78	-46.01	Peak

Note:

1. Measurement = Reading Level + Correct Factor,
 Correct Factor = Antenna Factor + Loss (Cable) + Distance Factor.
2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.
3. 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.

Channel	Frequency Range	Verdict
LCH	490kHz ~ 30MHz	PASS



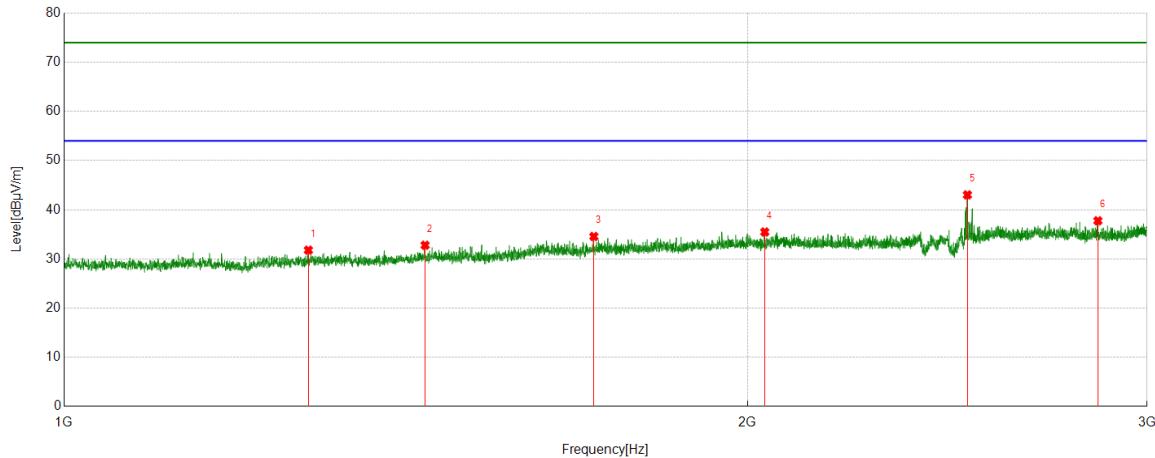
No.	Frequency	Reading Level	Correct Factor	FCC Result	FCC Limit	ISED Result	ISED Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dBuA/m]	[dBuA/m]	[dB]	
1	0.5564	24.38	-21.87	2.51	32.74	-48.99	-18.76	-30.23	Peak
2	0.9844	24.74	-21.85	2.89	27.74	-48.61	-23.76	-24.85	Peak
3	1.0287	24.67	-21.85	2.82	27.36	-48.68	-24.14	-24.54	Peak
4	3.7958	16.41	-21.75	-5.34	29.54	-56.84	-21.96	-34.88	Peak
5	5.1978	14.39	-21.77	-7.38	29.54	-58.88	-21.96	-36.92	Peak
6	7.3377	14.14	-21.72	-7.58	29.54	-59.08	-21.96	-37.12	Peak

Note:

1. Measurement = Reading Level + Correct Factor,
 Correct Factor = Antenna Factor + Loss (Cable) + Distance Factor.
2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.
3. 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. SPURIOUS EMISSIONS 1GHz ~ 3GHz

Channel	Polarization	Verdict
LCH	Horizontal	PASS



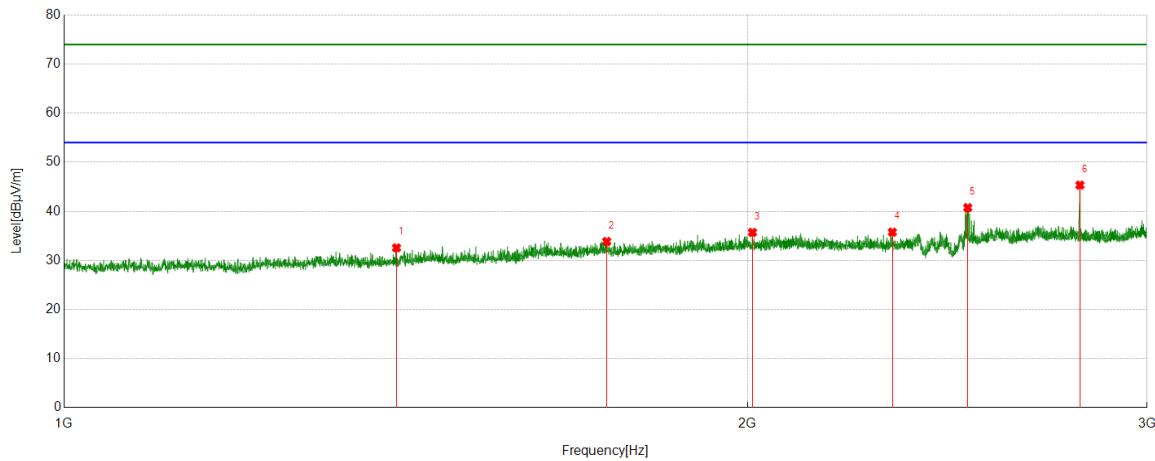
PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	1281.2852	52.59	-20.80	31.79	74.00	-42.21	Horizontal
2	1442.3053	52.49	-19.70	32.79	74.00	-41.21	Horizontal
3	1711.5889	52.54	-17.98	34.56	74.00	-39.44	Horizontal
4	2035.6295	51.60	-16.12	35.48	74.00	-38.52	Horizontal
5	2500.1875	56.45	-13.42	43.03	74.00	-30.97	Horizontal
6	2853.9817	50.55	-12.79	37.76	74.00	-36.24	Horizontal

Note:

1. Measurement = Reading Level + Correct Factor,
Correct Factor = Antenna Factor + Loss (Cable + Filter) – Amplifier Gain.
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. 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.
6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

Channel	Polarization	Verdict
LCH	Vertical	PASS

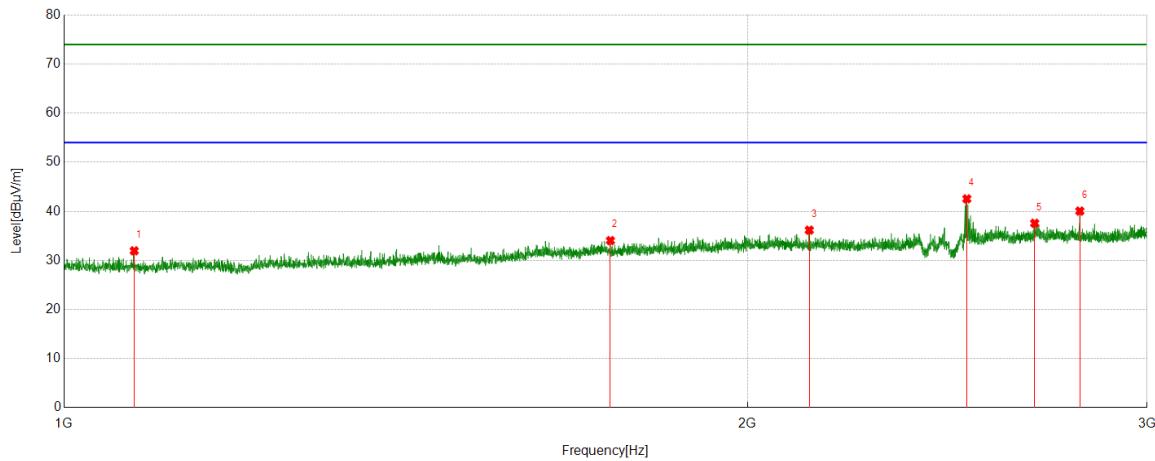

PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	1401.0501	52.99	-20.42	32.57	74.00	-41.43	Vertical
2	1734.0918	51.82	-17.97	33.85	74.00	-40.15	Vertical
3	2010.3763	51.93	-16.24	35.69	74.00	-38.31	Vertical
4	2316.9146	51.03	-15.28	35.75	74.00	-38.25	Vertical
5	2500.9376	54.18	-13.43	40.75	74.00	-33.25	Vertical
6	2802.4753	58.35	-13.01	45.34	74.00	-28.66	Vertical

Note:

1. Measurement = Reading Level + Correct Factor,
Correct Factor = Antenna Factor + Loss (Cable + Filter) – Amplifier Gain.
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. 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.
6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

Channel	Polarization	Verdict
MCH	Horizontal	PASS

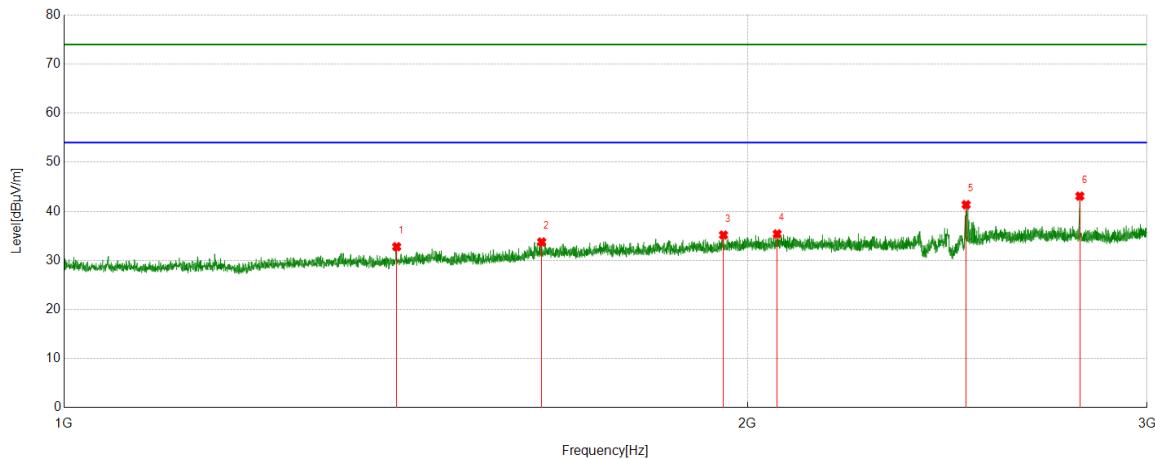

PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	1073.7592	53.65	-21.69	31.96	74.00	-42.04	Horizontal
2	1740.5926	52.06	-18.02	34.04	74.00	-39.96	Horizontal
3	2129.6412	52.02	-15.85	36.17	74.00	-37.83	Horizontal
4	2498.6873	55.97	-13.43	42.54	74.00	-31.46	Horizontal
5	2676.7096	50.58	-13.01	37.57	74.00	-36.43	Horizontal
6	2802.2253	53.06	-13.01	40.05	74.00	-33.95	Horizontal

Note:

1. Measurement = Reading Level + Correct Factor,
Correct Factor = Antenna Factor + Loss (Cable + Filter) – Amplifier Gain.
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. 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.
6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

Channel	Polarization	Verdict
MCH	Vertical	PASS

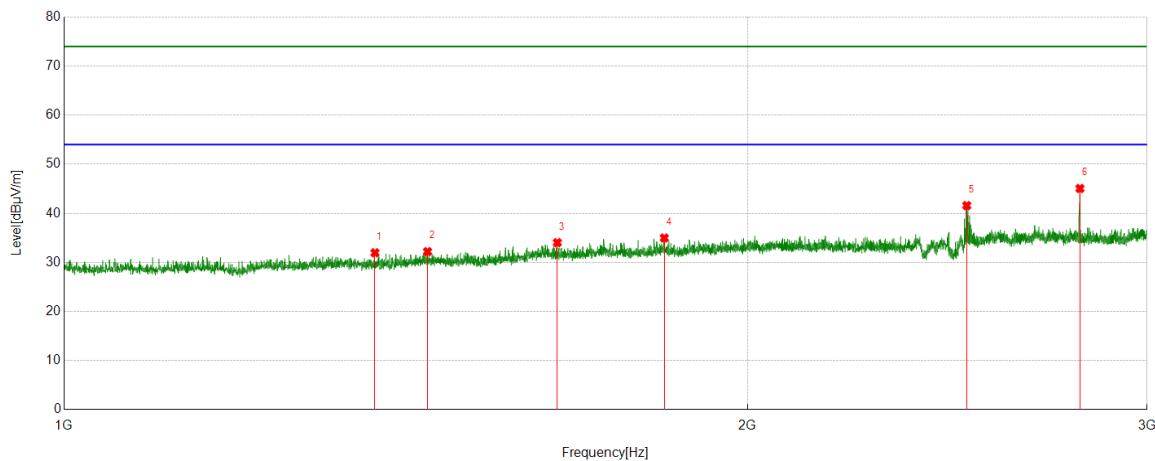

PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	1401.3002	53.20	-20.41	32.79	74.00	-41.21	Vertical
2	1623.3279	52.36	-18.61	33.75	74.00	-40.25	Vertical
3	1952.1119	51.97	-16.80	35.17	74.00	-38.83	Vertical
4	2061.3827	51.46	-16.06	35.40	74.00	-38.60	Vertical
5	2496.9371	54.79	-13.44	41.35	74.00	-32.65	Vertical
6	2802.2253	56.10	-13.01	43.09	74.00	-30.91	Vertical

Note:

1. Measurement = Reading Level + Correct Factor,
Correct Factor = Antenna Factor + Loss (Cable + Filter) – Amplifier Gain.
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. 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.
6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

Channel	Polarization	Verdict
HCH	Horizontal	PASS

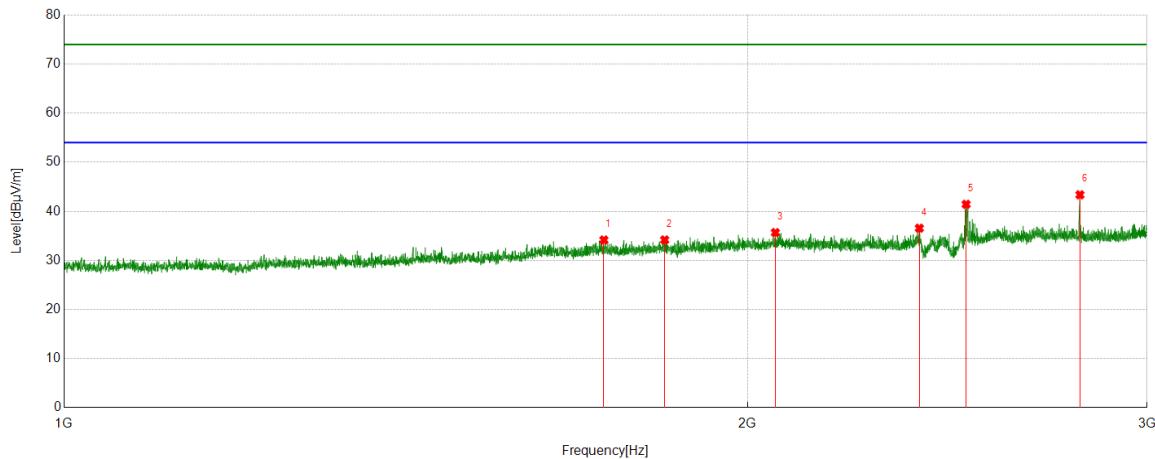

PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	1370.7964	52.45	-20.49	31.96	74.00	-42.04	Horizontal
2	1445.8057	51.84	-19.64	32.20	74.00	-41.80	Horizontal
3	1649.3312	52.38	-18.35	34.03	74.00	-39.97	Horizontal
4	1838.3548	52.20	-17.22	34.98	74.00	-39.02	Horizontal
5	2498.4373	55.02	-13.43	41.59	74.00	-32.41	Horizontal
6	2802.4753	58.07	-13.01	45.06	74.00	-28.94	Horizontal

Note:

1. Measurement = Reading Level + Correct Factor,
Correct Factor = Antenna Factor + Loss (Cable + Filter) – Amplifier Gain.
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. 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.
6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

Channel	Polarization	Verdict
HCH	Vertical	PASS


PK Result:

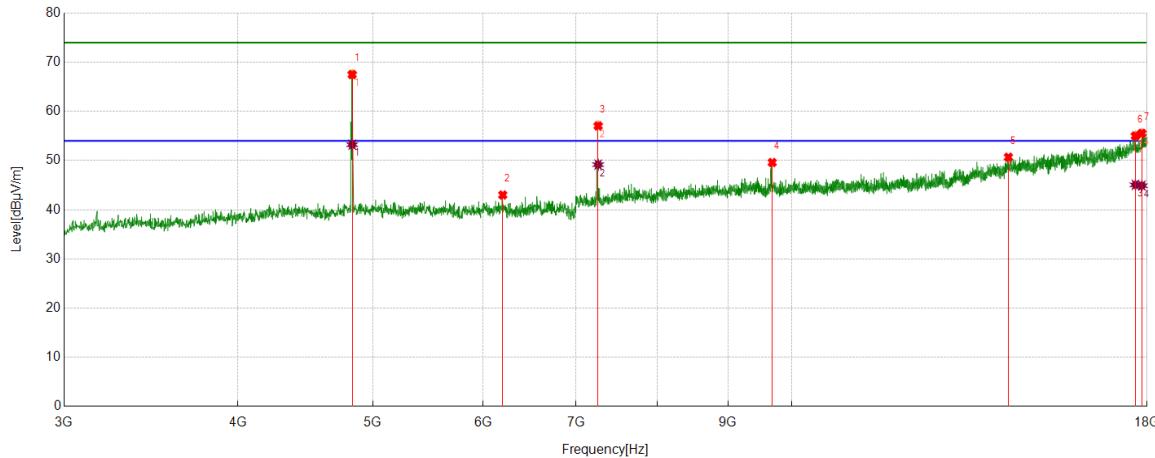
No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	1729.0911	52.11	-17.95	34.16	74.00	-39.84	Vertical
2	1839.1049	51.38	-17.21	34.17	74.00	-39.83	Vertical
3	2057.6322	51.72	-16.05	35.67	74.00	-38.33	Vertical
4	2381.1726	50.78	-14.22	36.56	74.00	-37.44	Vertical
5	2496.9371	54.87	-13.44	41.43	74.00	-32.57	Vertical
6	2802.4753	56.38	-13.01	43.37	74.00	-30.63	Vertical

Note:

1. Measurement = Reading Level + Correct Factor,
Correct Factor = Antenna Factor + Loss (Cable + Filter) – Amplifier Gain.
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. 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.
6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

7.5. SPURIOUS EMISSIONS 3GHz ~ 18GHz

Channel	Polarization	Verdict
LCH	Horizontal	PASS



PK Result:

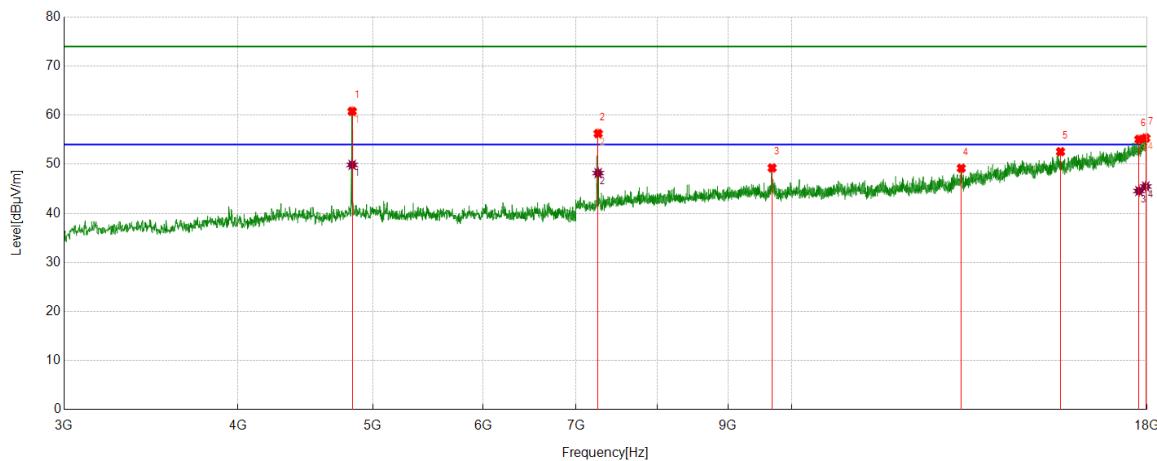
No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	4832.104	71.23	-3.72	67.51	74.00	-6.49	Horizontal
2	6199.1499	44.84	-1.83	43.01	74.00	-30.99	Horizontal
3	7258.6573	57.13	-0.07	57.06	74.00	-16.94	Horizontal
4	9681.4602	46.00	3.61	49.61	74.00	-24.39	Horizontal
5	14309.5387	39.45	11.24	50.69	74.00	-23.31	Horizontal
6	17656.8321	37.27	17.76	55.03	74.00	-18.97	Horizontal
7	17846.2308	36.93	18.61	55.54	74.00	-18.46	Horizontal

AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	4832.104	56.96	-3.72	53.24	54.00	-0.76	Horizontal
2	7258.6573	49.24	-0.07	49.17	54.00	-4.83	Horizontal
3	17656.8321	27.31	17.76	45.07	54.00	-8.93	Horizontal
4	17846.2308	26.31	18.61	44.92	54.00	-9.08	Horizontal

Note: 1. Measurement = Reading Level + Correct Factor,
 Correct Factor = Antenna Factor + Loss (Cable + Filter) – Amplifier Gain.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak detector: RBW: 1 MHz, VBW: 3 MHz.
 4. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 6.1.).
 5. For above 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.
 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

Channel	Polarization	Verdict
LCH	Vertical	PASS


PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	4832.104	64.50	-3.72	60.78	74.00	-13.22	Vertical
2	7258.6573	56.33	-0.07	56.26	74.00	-17.74	Vertical
3	9679.5849	45.63	3.62	49.25	74.00	-24.75	Vertical
4	13236.9046	40.81	8.38	49.19	74.00	-24.81	Vertical
5	15597.8247	39.38	13.18	52.56	74.00	-21.44	Vertical
6	17759.97	37.38	17.69	55.07	74.00	-18.93	Vertical
7	17960.6201	36.87	18.47	55.34	74.00	-18.66	Vertical

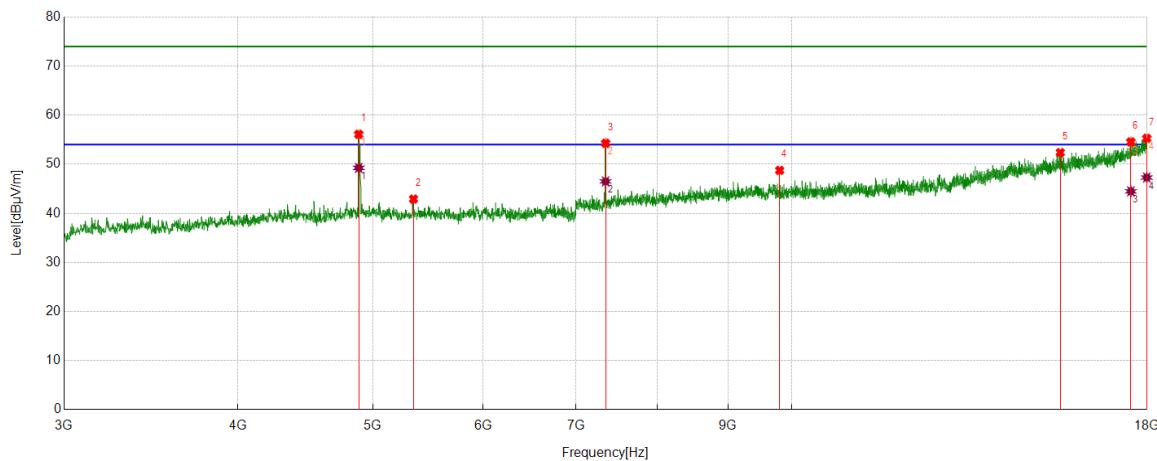
AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	4832.104	53.59	-3.72	49.87	54.00	-4.13	Vertical
2	7258.6573	48.26	-0.07	48.19	54.00	-5.81	Vertical
3	17759.97	26.86	17.69	44.55	54.00	-9.45	Vertical
4	17960.6201	26.99	18.47	45.46	54.00	-8.54	Vertical

Note:

1. Measurement = Reading Level + Correct Factor,
Correct Factor = Antenna Factor + Loss (Cable + Filter) – Amplifier Gain.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak detector: RBW: 1 MHz, VBW: 3 MHz.
4. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 6.1.).
5. For above 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.
6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

Channel	Polarization	Verdict
MCH	Horizontal	PASS


PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	4884.6106	59.59	-3.49	56.10	74.00	-17.90	Horizontal
2	5347.7935	46.40	-3.49	42.91	74.00	-31.09	Horizontal
3	7348.6686	54.37	-0.09	54.28	74.00	-19.72	Horizontal
4	9801.4752	45.24	3.51	48.75	74.00	-25.25	Horizontal
5	15592.199	39.33	13.06	52.39	74.00	-21.61	Horizontal
6	17523.6905	37.64	16.92	54.56	74.00	-19.44	Horizontal
7	17990.6238	36.70	18.59	55.29	74.00	-18.71	Horizontal

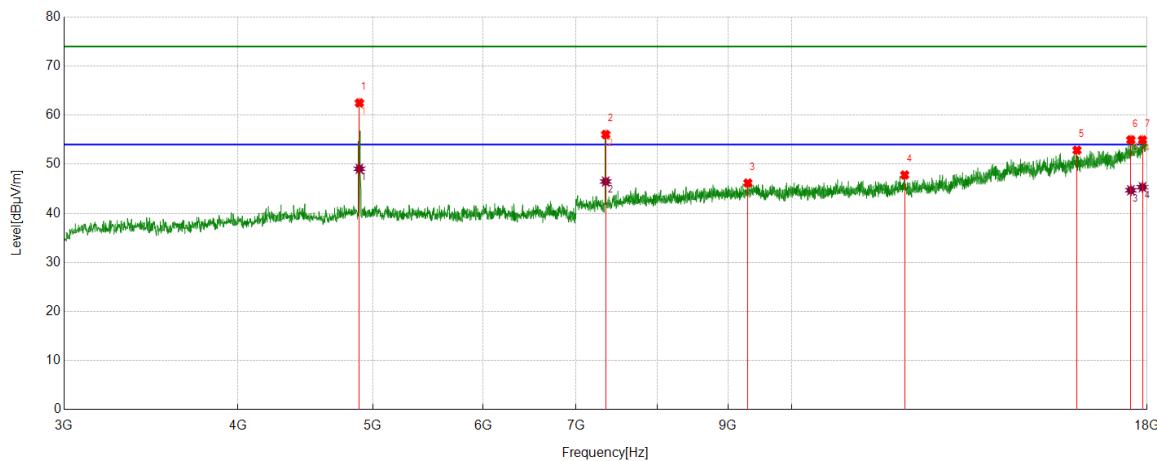
AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	4884.6106	52.75	-3.49	49.26	54.00	-4.74	Horizontal
2	7348.6686	46.59	-0.09	46.50	54.00	-7.50	Horizontal
3	17523.6905	27.56	16.92	44.48	54.00	-9.52	Horizontal
4	17990.6238	28.70	18.59	47.29	54.00	-6.71	Horizontal

Note:

1. Measurement = Reading Level + Correct Factor,
Correct Factor = Antenna Factor + Loss (Cable + Filter) – Amplifier Gain.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak detector: RBW: 1 MHz, VBW: 3 MHz.
4. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 6.1.).
5. For above 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.
6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

Channel	Polarization	Verdict
MCH	Vertical	PASS


PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	4890.2363	66.00	-3.51	62.49	74.00	-11.51	Vertical
2	7350.5438	56.17	-0.11	56.06	74.00	-17.94	Vertical
3	9298.9124	43.18	2.99	46.17	74.00	-27.83	Vertical
4	12053.6317	41.07	6.75	47.82	74.00	-26.18	Vertical
5	16029.1286	38.44	14.41	52.85	74.00	-21.15	Vertical
6	17523.6905	38.05	16.92	54.97	74.00	-19.03	Vertical
7	17863.1079	36.09	18.85	54.94	74.00	-19.06	Vertical

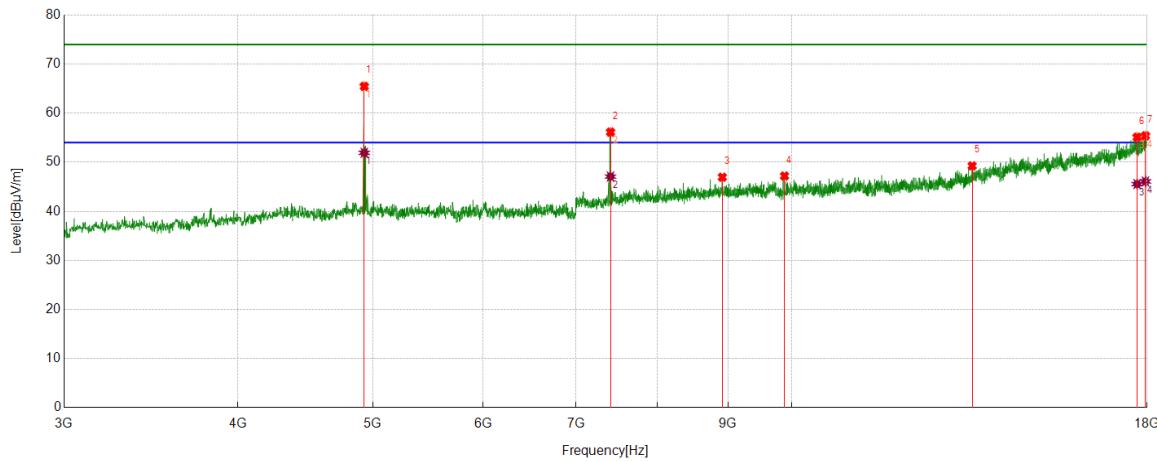
AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	4890.2363	52.59	-3.51	49.08	54.00	-4.92	Vertical
2	7350.5438	46.59	-0.11	46.48	54.00	-7.52	Vertical
3	17523.6905	27.78	16.92	44.70	54.00	-9.30	Vertical
4	17863.1079	26.48	18.85	45.33	54.00	-8.67	Vertical

Note:

1. Measurement = Reading Level + Correct Factor,
Correct Factor = Antenna Factor + Loss (Cable + Filter) – Amplifier Gain.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak detector: RBW: 1 MHz, VBW: 3 MHz.
4. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 6.1.).
5. For above 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.
6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

Channel	Polarization	Verdict
HCH	Horizontal	PASS


PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	4929.6162	69.27	-3.81	65.46	74.00	-8.54	Horizontal
2	7408.6761	55.95	0.19	56.14	74.00	-17.86	Horizontal
3	8914.4893	44.23	2.72	46.95	74.00	-27.05	Horizontal
4	9880.235	43.29	3.91	47.20	74.00	-26.80	Horizontal
5	13476.9346	40.37	8.89	49.26	74.00	-24.74	Horizontal
6	17705.5882	37.32	17.78	55.10	74.00	-18.90	Horizontal
7	17951.2439	37.02	18.37	55.39	74.00	-18.61	Horizontal

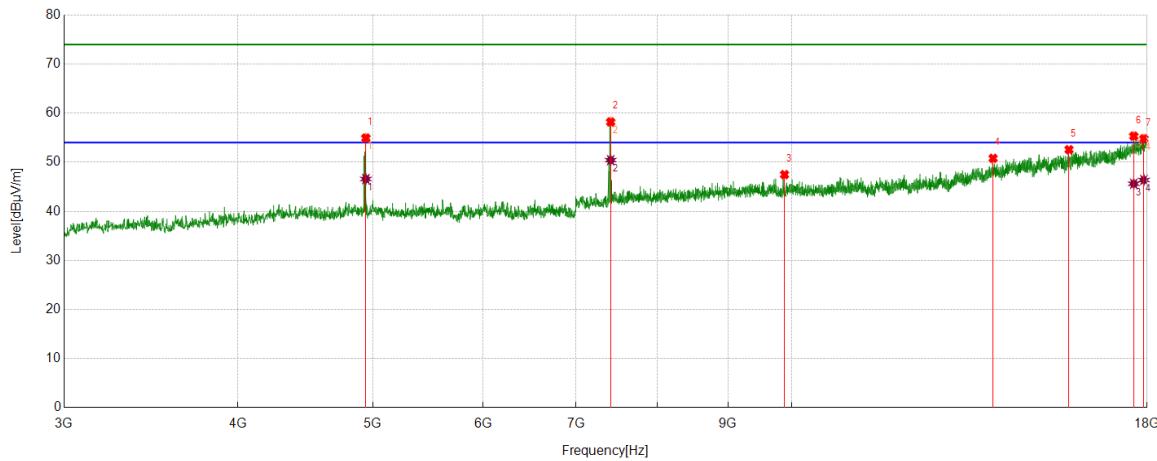
AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	4929.6162	55.73	-3.81	51.92	54.00	-2.08	Horizontal
2	7408.6761	46.90	0.19	47.09	54.00	-6.91	Horizontal
3	17705.5882	27.77	17.78	45.55	54.00	-8.45	Horizontal
4	17951.2439	27.72	18.37	46.09	54.00	-7.91	Horizontal

Note:

1. Measurement = Reading Level + Correct Factor,
Correct Factor = Antenna Factor + Loss (Cable + Filter) – Amplifier Gain.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak detector: RBW: 1 MHz, VBW: 3 MHz.
4. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 6.1.).
5. For above 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.
6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

Channel	Polarization	Verdict
HCH	Vertical	PASS


PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	4942.7428	58.85	-3.91	54.94	74.00	-19.06	Vertical
2	7410.5513	58.04	0.17	58.21	74.00	-15.79	Vertical
3	9880.235	43.57	3.91	47.48	74.00	-26.52	Vertical
4	13951.3689	39.88	10.92	50.80	74.00	-23.20	Vertical
5	15819.1024	38.49	14.08	52.57	74.00	-21.43	Vertical
6	17608.076	37.73	17.59	55.32	74.00	-18.68	Vertical
7	17906.2383	35.65	19.14	54.79	74.00	-19.21	Vertical

AV Result:

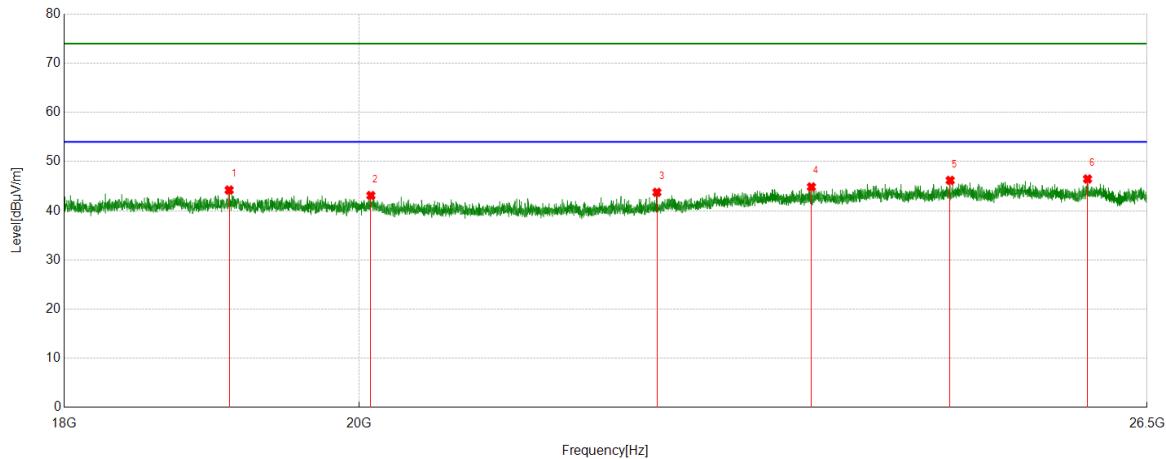
No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	4942.7428	50.50	-3.91	46.59	54.00	-7.41	Vertical
2	7410.5513	50.26	0.17	50.43	54.00	-3.57	Vertical
3	17608.076	28.03	17.59	45.62	54.00	-8.38	Vertical
4	17906.2383	27.24	19.14	46.38	54.00	-7.62	Vertical

Note:

1. Measurement = Reading Level + Correct Factor,
Correct Factor = Antenna Factor + Loss (Cable + Filter) – Amplifier Gain.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak detector: RBW: 1 MHz, VBW: 3 MHz.
4. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 6.1.).
5. For above 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.
6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

7.6. SPURIOUS EMISSIONS 18GHz ~26GHz

Channel	Polarization	Verdict
LCH	Horizontal	PASS

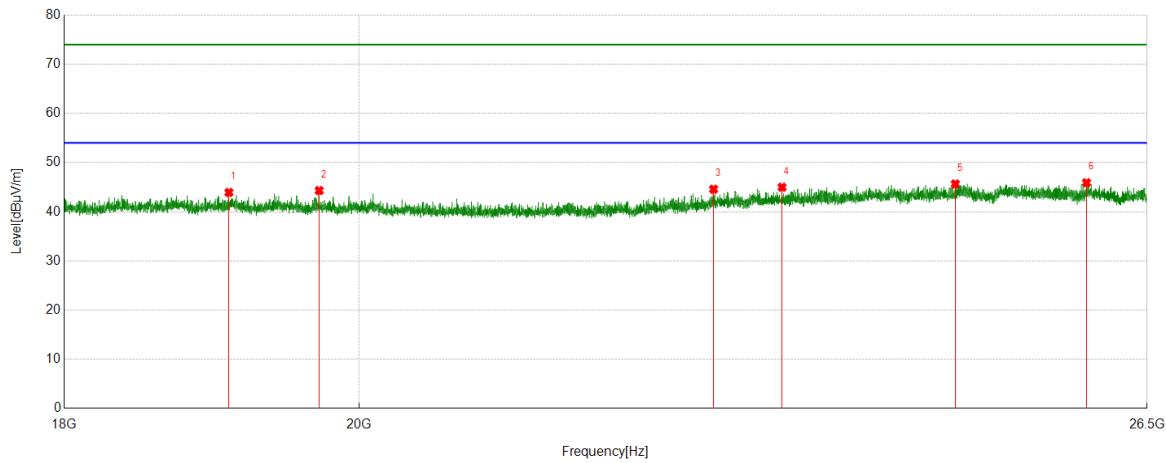


PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	19093.2093	50.13	-5.92	44.21	74.00	-29.79	Horizontal
2	20084.4084	48.24	-5.14	43.10	74.00	-30.90	Horizontal
3	22244.4744	49.04	-5.29	43.75	74.00	-30.25	Horizontal
4	23506.0006	48.00	-3.15	44.85	74.00	-29.15	Horizontal
5	24700.37	49.38	-3.20	46.18	74.00	-27.82	Horizontal
6	25942.3442	49.20	-2.74	46.46	74.00	-27.54	Horizontal

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,
Correct Factor = Antenna Factor + Loss (Cable) – Amplifier Gain.
4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

Channel	Polarization	Verdict
LCH	Vertical	PASS


PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	19091.5092	49.86	-5.93	43.93	74.00	-30.07	Vertical
2	19717.1717	49.71	-5.39	44.32	74.00	-29.68	Vertical
3	22699.2699	48.75	-4.17	44.58	74.00	-29.42	Vertical
4	23261.1761	48.34	-3.35	44.99	74.00	-29.01	Vertical
5	24746.2746	48.91	-3.25	45.66	74.00	-28.34	Vertical
6	25932.9933	48.66	-2.75	45.91	74.00	-28.09	Vertical

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,
Correct Factor = Antenna Factor + Loss (Cable) – Amplifier Gain.
4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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.

ANTENNA CONNECTOR

EUT has an Internal antenna without antenna connector.

ANTENNA GAIN

The antenna gain of EUT is less than 6 dBi.

END OF REPORT