



**FCC 47 CFR PART 15 SUBPART C  
ISED RSS-247 ISSUE 3**

**TEST REPORT**

*For*

**LED Device**

**MODEL NUMBER: 9290042847**

**PROJECT NUMBER: 4791739779**

**REPORT NUMBER: 4791739779-3**

**FCC ID: 2AGBW9290042847X**

**IC: 20812-42847X**

**ISSUE DATE: Aug. 01, 2025**

*Prepared for*

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*Prepared by*

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Form-ULID-008536-14 V4.0

The results reported herein have been performed in accordance with the laboratory's terms of accreditation. This report shall not be reproduced except in full without the written approval of the Laboratory. The results in this report apply to the test sample(s) mentioned above at the time of the testing period only and are not to be used to indicate applicability to other similar products.

Revision History

Rev.	Issue Date	Revisions	Revised By
V0	08/01/2025	Initial Issue	

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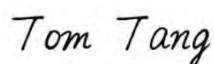
## 1. ATTESTATION OF TEST RESULTS

<b>Applicant Information</b>	
Company Name:	Signify (China) Investment Co., Ltd.
Address:	Building 9, Lane 888, Tianlin Road, Minhang District, Shanghai 200233 China
<b>Manufacturer Information-1</b>	
Company Name:	Dongguan ZOYO Electronics Technology Co., Ltd.
Address:	1st Building, NO.11, Nange west Road, Nanya Village, Daojiao Town, Dongguan, Guangdong
<b>Manufacturer Information-2</b>	
Company Name:	Silver Age Vietnam Technology Company Limited
Address:	Lot A2, Gia Le industrial zone, Xuan Quang Dong commune, Dong Hung district, Thai Binh province, VN
<b>EUT Description</b>	
Product Name:	LED Device
Model Number:	9290042847
Series Model Number:	/
Model Difference:	/
Sample Number:	8328613
Data of Receipt Sample:	Apr. 08, 2025
Test Date:	Apr. 08, 2025~ Aug. 01, 2025

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart C	PASS
ISED RSS-247 Issue 3	
ISED RSS-GEN Issue 5	

Summary of Test Results			
Clause	Test Items	FCC&ISED Rules	Test Results
1	6 dB Bandwidth and 99% Occupied Bandwidth	FCC 15.247 (a) (2) RSS-247 Clause 5.2 (a) RSS-Gen Clause 6.7	PASS
2	Conducted Power	FCC 15.247 (b) (3) RSS-247 Clause 5.4 (d) RSS-Gen Clause 6.12	PASS
3	Power Spectral Density	FCC 15.247 (e) RSS-247 Clause 5.2 (b)	PASS
4	Conducted Band edge And Spurious emission	FCC 15.247 (d) RSS-247 Clause 5.5 RSS-GEN Clause 6.13	PASS
5	Radiated Band edges and Spurious emission	FCC 15.247 (d) FCC 15.209 FCC 15.205 RSS-247 Clause 5.5 RSS-GEN Clause 8.9 RSS-GEN Clause 6.13	PASS
6	Conducted Emission Test for AC Power Port	FCC 15.207 RSS-GEN Clause 8.8	PASS
7	Antenna Requirement	FCC 15.203 RSS-GEN Clause 6.8	PASS
<p>Note:</p> <p>The measurement result for the sample received is &lt; Pass &gt; according to &lt; ANSI C63.10-2013, FCC CFR 47 Part 2, FCC CFR 47 Part 15C, ISED RSS-GEN, ISED RSS-247 &gt; when &lt; Simple Acceptance &gt; decision rule is applied.</p>			

Prepared By:



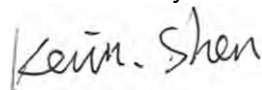
Tom Tang

Reviewed By:



Emily Wang

Authorized By:



Kevin Shen

## 2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with KDB 558074 D01 15.247 Meas Guidance v05r02, 414788 D01 Radiated Test Site v01r01, CFR 47 FCC Part 2, CFR 47 FCC Part 15, ANSI C63.10-2013, ISED RSS-247 Issue 3 and ISED RSS-GEN Issue 5.

## 3. FACILITIES AND ACCREDITATION

Accreditation Certificate	<b>A2LA (Certificate No.: 4829.01)</b> <b>UL-CCIC COMPANY LIMITED has been assessed and proved to be in compliance with A2LA.</b> <b>FCC (FCC Designation No.: CN1247)</b> <b>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.</b> <b>IC (IC Designation No.: 25056; CAB No.: CN0073)</b> <b>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.</b>
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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
Conduction emission	3.1 dB
DTS Bandwidth	1.9 %
Maximum Conducted Output Power	1.3 dB
Maximum Power Spectral Density Level	1.5 dB
Band-edge Compliance	1.9%
Unwanted Emissions in Non-restricted Freq Bands	9kHz-30MHz: $\pm 0.90$ dB 30MHz-1GHz: $\pm 1.5$ dB 1GHz-12.75GHz: $\pm 1.9$ dB 12.75GHz-26.5GHz: $\pm 2.1$ dB
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

Equipment:	LED Device	
Model Name:	9290042847	
Technology:	Bluetooth - Low Energy	
Transmit Frequency Range:	2402 MHz ~ 2480 MHz	
Modulation:	GFSK	
Data Rate:	LE 1M	1 Mb/s
	LE 1M	2 Mb/s
	LE Coded (S=2)	125 kb/s
	LE Coded (S=8)	500 kb/s
Test software of EUT:	HueApprobationTool (manufacturer declare)	
Antenna Type:	PCB Antenna	
Antenna Gain:	-6.08 dBi	
	Note: This data is provided by customer and our lab isn't responsible for this data.	



## 5.2. MAXIMUM OUTPUT POWER

Bluetooth Mode	Frequency (MHz)	Channel Number	Max. PK Output Power(dBm)
BLE 1M	2402-2480	0-39[40]	6.87
BLE 2M	2402-2480	0-39[40]	7.12
LE Coded (S=2)	2402-2480	0-39[40]	6.92
LE Coded (S=8)	2402-2480	0-39[40]	6.81

## 5.3. CHANNEL LIST

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	11	2424	22	2446	33	2468
1	2404	12	2426	23	2448	34	2470
2	2406	13	2428	24	2450	35	2472
3	2408	14	2430	25	2452	36	2474
4	2410	15	2432	26	2454	37	2476
5	2412	16	2434	27	2456	38	2478
6	2414	17	2436	28	2458	39	2480
7	2416	18	2438	29	2460	/	/
8	2418	19	2440	30	2462	/	/
9	2420	20	2442	31	2464	/	/
10	2422	21	2444	32	2468	/	/

## 5.4. TEST CHANNEL CONFIGURATION

Test Mode	Test Channel		Frequency
BLE 1M	Low Channel	CH 0	2402MHz
	Middle Channel	CH 19	2440MHz
	High Channel	CH 39	2480MHz
BLE 2M	Low Channel	CH 0	2402MHz
	Middle Channel	CH 19	2440MHz
	High Channel	CH 39	2480MHz
LE Coded (S=2)	Low Channel	CH 0	2402MHz
	Middle Channel	CH 19	2440MHz
	High Channel	CH 39	2480MHz
LE Coded (S=8)	Low Channel	CH 0	2402MHz
	Middle Channel	CH 19	2440MHz
	High Channel	CH 39	2480MHz

### 5.5. THE WORSE CASE POWER SETTING PARAMETER

The Worse Case Power Setting Parameter under 2400 ~ 2483.5MHz Band				
Test Software		HueApprobationTool		
Modulation Type	Transmit Antenna Number	Test Channel		
		LCH	MCH	HCH
BLE 1M	1	8	8	8
BLE 2M	1	8	8	8
LE Coded (S=2)	1	8	8	8
LE Coded (S=8)	1	8	8	8

### 5.6. DESCRIPTION OF AVAILABLE ANTENNAS

Ant.	Frequency (MHz)	Antenna Type	Antenna Gain (dBi)
1	2400-2483.5	PCB Antenna	-6.08

Note: This data is provided by customer and our lab isn't responsible for this data.

Test Mode	Transmit and Receive Mode	Description
BLE 1M	<input checked="" type="checkbox"/> 1TX, 1RX	Antenna1 can be used as transmitting/receiving antenna independently.
BLE 2M	<input checked="" type="checkbox"/> 1TX, 1RX	Antenna1 can be used as transmitting/receiving antenna independently.
LE Coded (S=2)	<input checked="" type="checkbox"/> 1TX, 1RX	Antenna1 can be used as transmitting/receiving antenna independently.
LE Coded (S=8)	<input checked="" type="checkbox"/> 1TX, 1RX	Antenna1 can be used as transmitting/receiving antenna independently.

## 5.7. THE WORSE CASE CONFIGURATIONS

For BLE module, the product supports 1 Mbps and 2 Mbps and LE Coded, both 1 Mbps and 2 Mbps and LE Coded were tested, 1 Mbps is the worse case between 1 Mbps and LE Coded, so the test result of 1 Mbps and 2 Mbps was recorded in this report.

## 5.8. TEST ENVIRONMENT

Environment Parameter	Selected Values During Tests	
Relative Humidity	55 ~ 65%	
Atmospheric Pressure:	101kPa	
Temperature	TN	23 ~ 28°C
Voltage:	VL	N/A
	VN	AC 120V
	VH	N/A

Note: VL= Lower Extreme Test Voltage  
VN= Nominal Voltage  
VH= Upper Extreme Test Voltage  
TN= Normal Temperature

## 5.9. DESCRIPTION OF TEST SETUP

### SUPPORT EQUIPMENT

Item	Equipment	Brand Name	Model Name	Description
1	Laptop	ThinkPad	E580	/
2	Fixed Frequency Board	/	/	Supplied by customer

### I/O PORT

Cable No	Port	Connector Type	Cable Type	Cable Length(m)	Remarks
1	USB	USB	USB	100cm Length	/

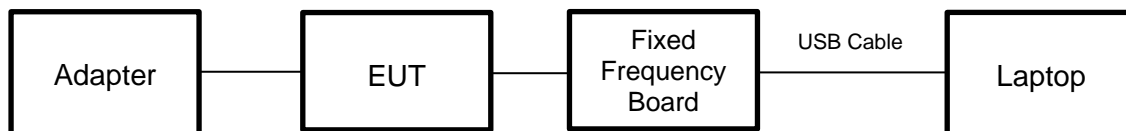
### ACCESSORY

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

### TEST SETUP

The EUT can work in an engineer mode with a software through a laptop.

### SETUP DIAGRAM FOR TESTS



## 5.10. MEASURING INSTRUMENT AND SOFTWARE USED

Conducted Emissions Test (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	2023-11-25	2024-11-02	2025-11-01
<input checked="" type="checkbox"/>	Two-Line V-Network	R&S	ENV216	126701	2023-11-25	2024-11-02	2025-11-01
Conducted Emissions Test (Software)							
Used	Description		Manufacturer		Name	Version	
<input checked="" type="checkbox"/>	Software for Conducted Emissions Test		R&S		EMC32	9.25.00	
Radiated Emissions Test (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	2024-03-23	2025-03-22	2026-03-14
<input checked="" type="checkbox"/>	EMI test receiver	R&S	ESR26	126703	2023-11-25	2024-11-02	2025-11-01
<input checked="" type="checkbox"/>	Spectrum Analyzer	R&S	FSV3044	222992	2024-03-23	2025-03-22	2026-03-14
<input checked="" type="checkbox"/>	Receiver Antenna (9kHz-30MHz)	Schwarzbeck	FMZB 1513	155456	2021-06-03	2024-05-27	2027-05-26
<input checked="" type="checkbox"/>	Receiver Antenna (30MHz-1GHz)	Schwarzbeck	VULB 9168	171952	2021-07-05	2024-07-04	2027-07-03
<input checked="" type="checkbox"/>	Receiver Antenna (1GHz-18GHz)	R&S	HF907	126705	2022-02-28	2025-02-17	2028-02-16
<input checked="" type="checkbox"/>	Receiver Antenna (18GHz-26.5GHz)	Schwarzbeck	BBHA9170	126706	2022-02-28	2025-02-17	2028-02-16
<input checked="" type="checkbox"/>	Pre-amplification (To 18GHz)	Tonscnd	TAP01018050	224539	2023-10-10	2024-10-10	2025-10-09
<input checked="" type="checkbox"/>	Pre-amplification (To 18GHz)	R&S	SCU-18D	134667	2023-11-25	2024-11-02	2025-11-01
<input checked="" type="checkbox"/>	Pre-amplification (To 26.5GHz)	R&S	SCU-26D	135391	2023-11-25	2024-11-02	2025-11-01
<input checked="" type="checkbox"/>	Band Reject Filter	Wainwright	WRCGV12-2375-2400-2485-2510-40SS	1	2023-12-18	2024-11-02	2025-11-01
<input checked="" type="checkbox"/>	High Pass Filter	COM-MW	ZBF13-3-18G-01	2	2023-12-18	2024-11-02	2025-11-01
Radiated Emissions Test (Software)							
Used	Description		Manufacturer		Name	Version	
<input checked="" type="checkbox"/>	Software for Radiated Emissions Test		Tonscnd		JS32-RE	5.0.0.2	
Antenna Port Test (Instrument)							
Used	Equipment	Manufacturer	Model No.	Serial No.	Upper Last Cal.	Last Cal.	Next Cal.
<input checked="" type="checkbox"/>	Spectrum Analyzer	Keysight	N9010B	155368	2024-03-23	2025-03-22	2026-03-14
<input checked="" type="checkbox"/>	Power Meter	MWT	MW100-RFCB	221694	2024-03-23	2025-03-22	2026-03-14
<input checked="" type="checkbox"/>	Power Meter	Anritsu	MA24406A	12896	2024-03-23	2025-03-22	2026-03-14
<input checked="" type="checkbox"/>	Attenuator	PASTERNAK	PE7087-6	1624	/	2024-11-04	2025-11-03
Antenna Port Test (Software)							
Used	Description		Manufacturer		Name	Version	
<input checked="" type="checkbox"/>	Software for Antenna Port Test		Tonscnd		JS1120-3 Test System	V3.2.22	

## 6. MEASUREMENT METHODS

No.	Test Item	KDB Name	Section
1	6 dB Bandwidth and 99% Occupied Bandwidth	KDB 558074 D01 15.247 Meas Guidance v05r02	8.2
2	Output Power	KDB 558074 D01 15.247 Meas Guidance v05r02	8.3.1.3 (11.9.1.3 PKPM1 Peak power meter method of ANSI C63.10)
3	Power Spectral Density	KDB 558074 D01 15.247 Meas Guidance v05r02	8.4 (11.10.2 Method PKPSD of ANSI C63.10)
4	Out-of-band emissions in non-restricted bands	KDB 558074 D01 15.247 Meas Guidance v05r02	8.5
5	Out-of-band emissions in restricted bands	KDB 558074 D01 15.247 Meas Guidance v05r02	8.6
6	Band-edge	KDB 558074 D01 15.247 Meas Guidance v05r02	8.7
7	Conducted Emission Test for AC Power Port	ANSI C63.10-2013	6.2

## 7. ANTENNA PORT TEST RESULTS

### 7.1. ON TIME AND DUTY CYCLE

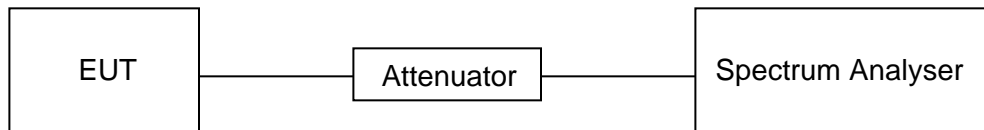
#### LIMITS

None; for reporting purposes only

#### PROCEDURE

FCC KDB 558074 Zero-Span Spectrum Analyzer Method

#### TEST SETUP



#### TEST ENVIRONMENT

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

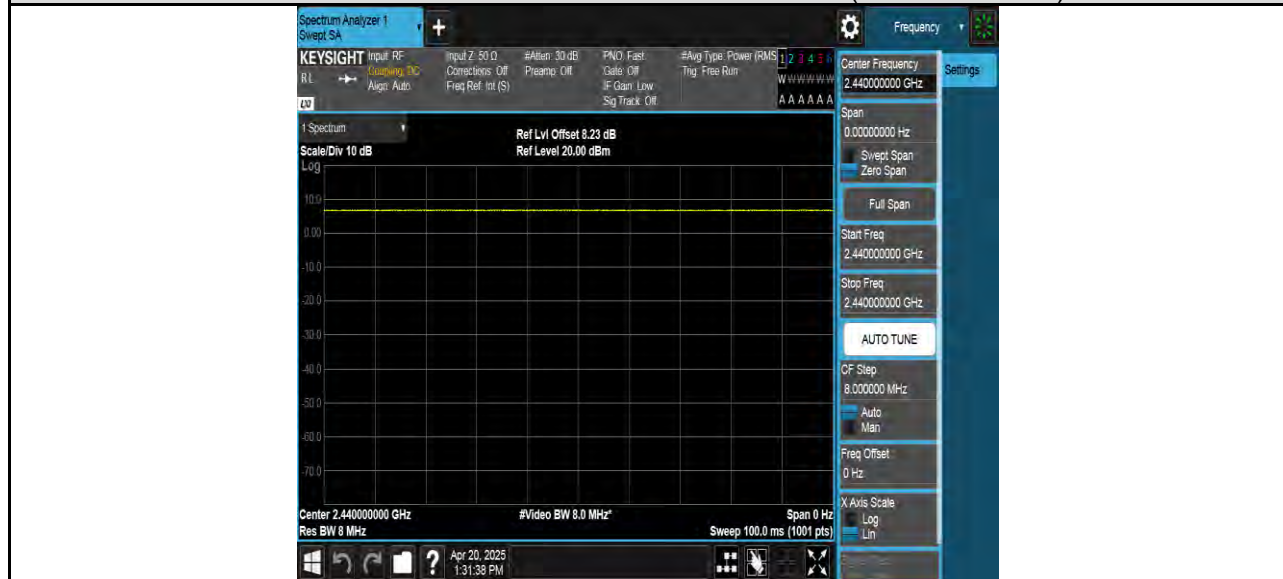
#### TEST RESULTS TABLE

Mode	On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (db)	1/T Minimum VBW (kHz)	Final VBW (kHz)
BLE 1M	100	100	1	100%	0	0.01	0.01
BLE 2M	100	100	1	100%	0	0.01	0.01

Note: 1) Duty Cycle Correction Factor=10log(1/x).  
 2) Where: x is Duty Cycle (Linear)  
 3) Where: T is On Time (transmit duration)

## TEST GRAPHS

### BLE 1M ON TIME AND DUTY CYCLE MID CH (WORSE CASE)



### BLE 2M ON TIME AND DUTY CYCLE MID CH (WORSE CASE)





## 7.2. 6 dB BANDWIDTH AND 99% OCCUPIED BANDWIDTH

### LIMITS

FCC Part15 (15.247), Subpart C			
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC 15.247(a)(2) ISED RSS-247 5.2 (a)	6dB Bandwidth	$\geq 500\text{kHz}$	2400-2483.5
ISED RSS-Gen Clause 6.7	99 % Occupied Bandwidth	For reporting purposes only	2400-2483.5

### TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 11.8 for DTS bandwidth and clause 6.9 for Occupied Bandwidth.

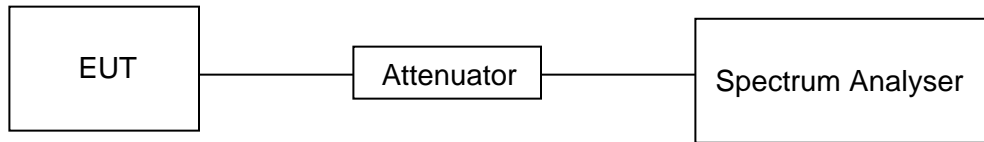
Connect the EUT to the spectrum analyser and use the following settings:

Center Frequency	The centre frequency of the channel under test
Frequency Span	For 6 dB Bandwidth: enough to capture all products of the modulation carrier emission For 99 % Occupied Bandwidth: Between 1.5 times and 5 times the OBW
Detector	Peak
RBW	For 6 dB Bandwidth: 100 kHz For 99 % Occupied Bandwidth: 1 % to 5 % of the occupied bandwidth
VBW	For 6 dB Bandwidth: $\geq 3 \times \text{RBW}$ For 99 % Occupied Bandwidth: $\geq 3 \times \text{RBW}$
Trace	Max hold
Sweep	Auto couple

a) Use the 99 % power bandwidth function of the instrument, allow the trace to stabilize and report the measured bandwidth.

b) 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 6 dB relative to the maximum level measured in the fundamental emission.

### TEST SETUP



### TEST ENVIRONMENT

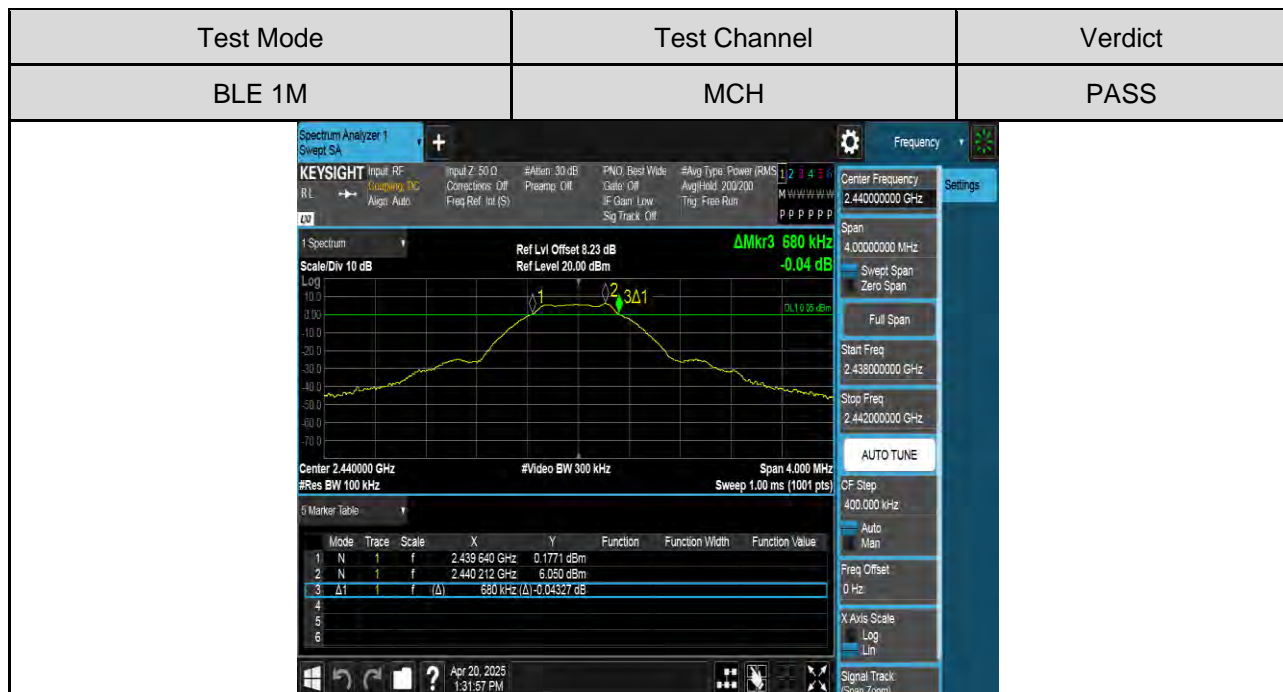
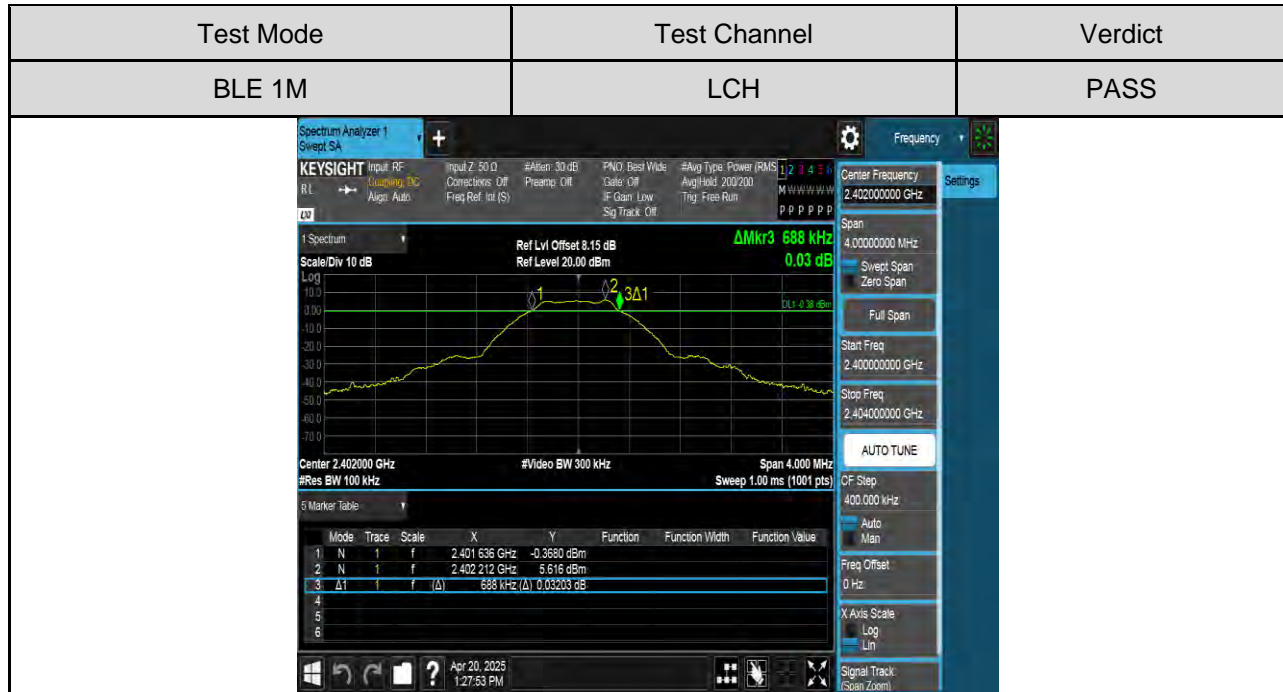
Temperature	22°C	Relative Humidity	56%
Atmosphere Pressure	101kPa	Test Voltage	AC 120V

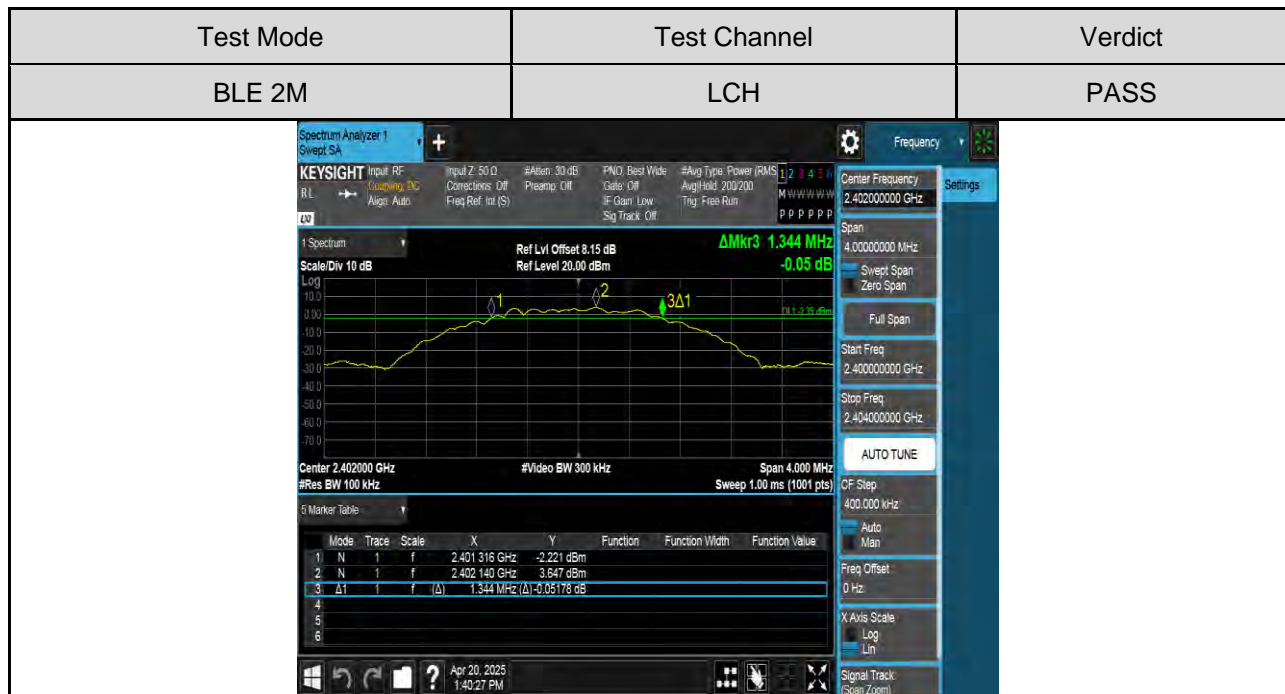
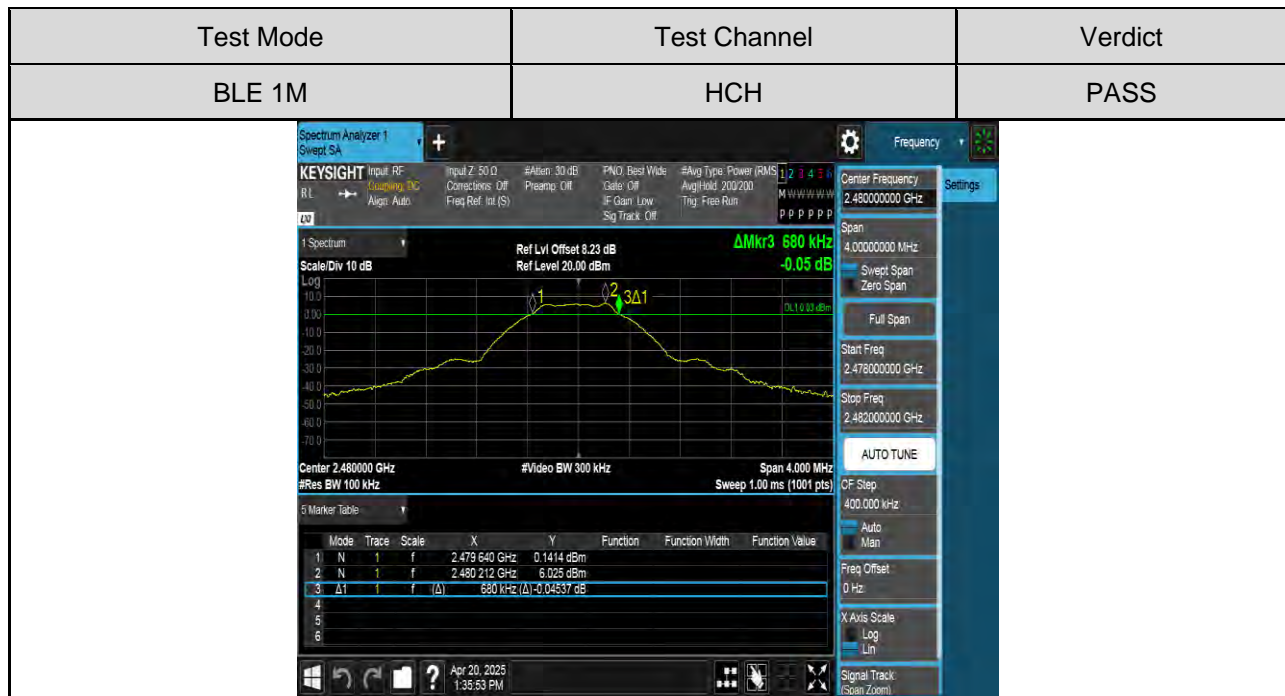
### TEST RESULTS TABLE

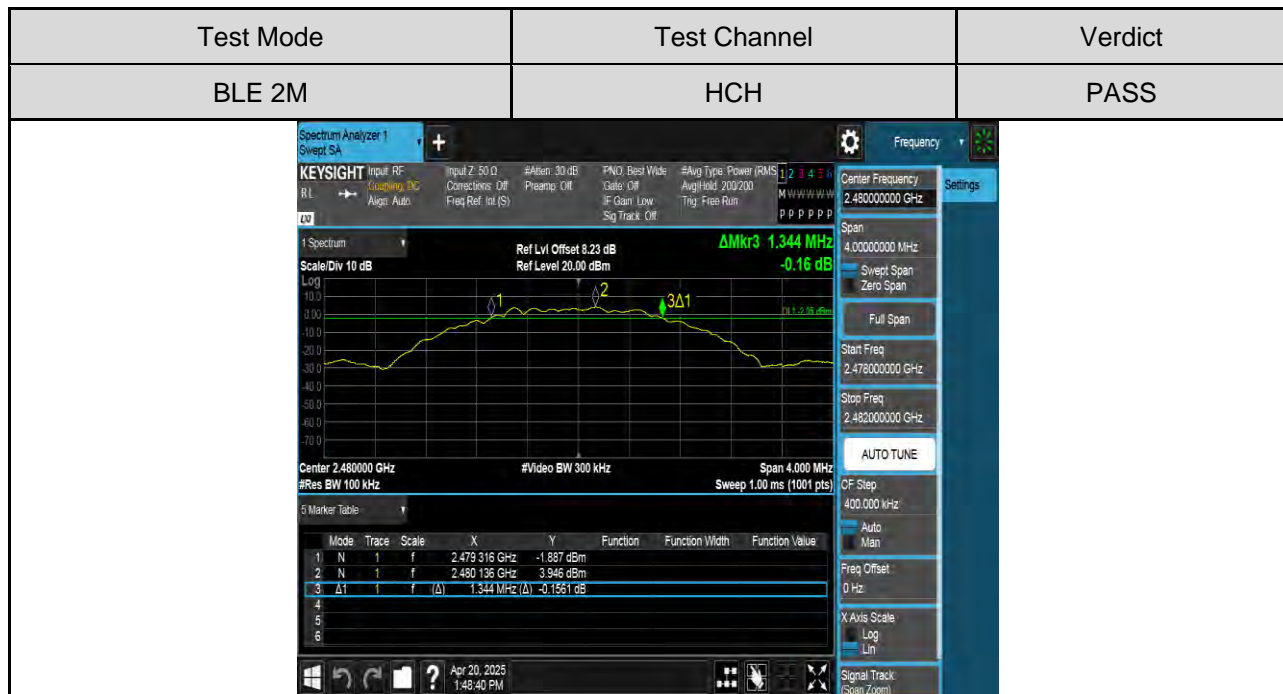
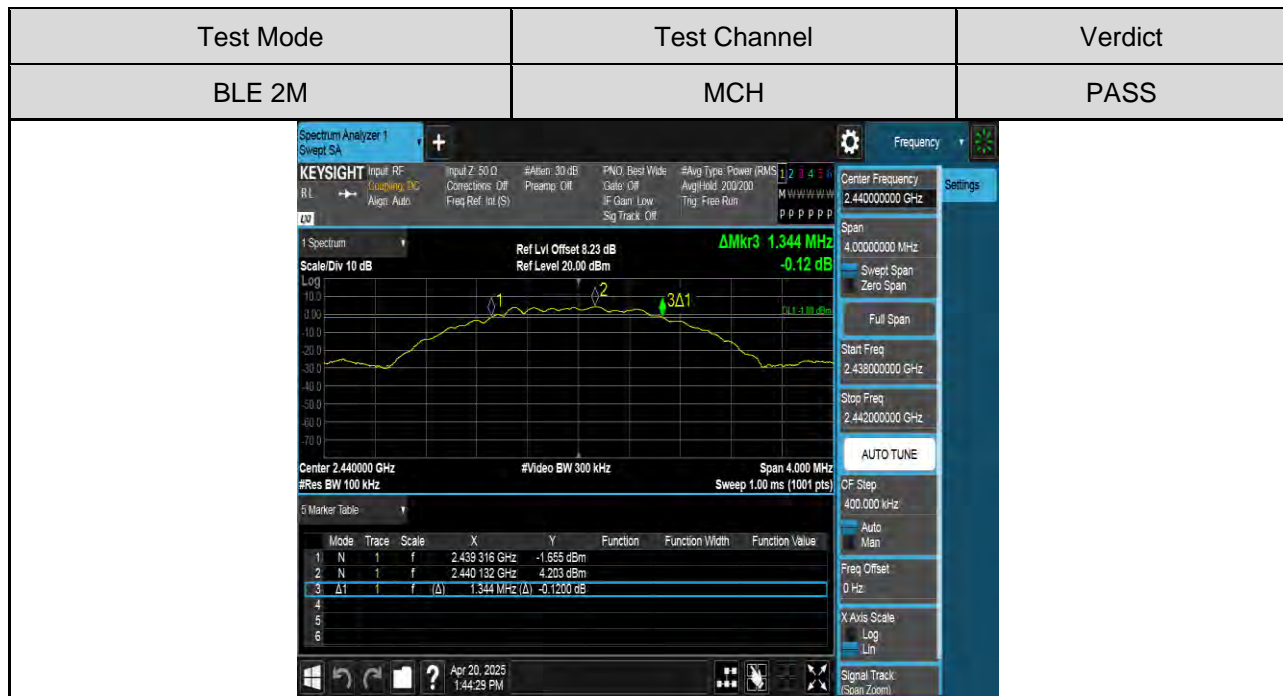
Test Mode	Test Channel	6dB bandwidth (MHz)	99% bandwidth (MHz)	Result
BLE 1M	LCH	0.688	1.0315	Pass
	MCH	0.680	1.0312	Pass
	HCH	0.680	1.0311	Pass
BLE 2M	LCH	1.344	2.1127	Pass
	MCH	1.344	2.1163	Pass
	HCH	1.344	2.1206	Pass
LE Coded (S=2)	LCH	0.672	1.0620	Pass
	MCH	0.668	1.0611	Pass
	HCH	0.664	1.0607	Pass
LE Coded (S=8)	LCH	0.684	1.0302	Pass
	MCH	0.676	1.0301	Pass
	HCH	0.676	1.0294	Pass

## TEST GRAPHS

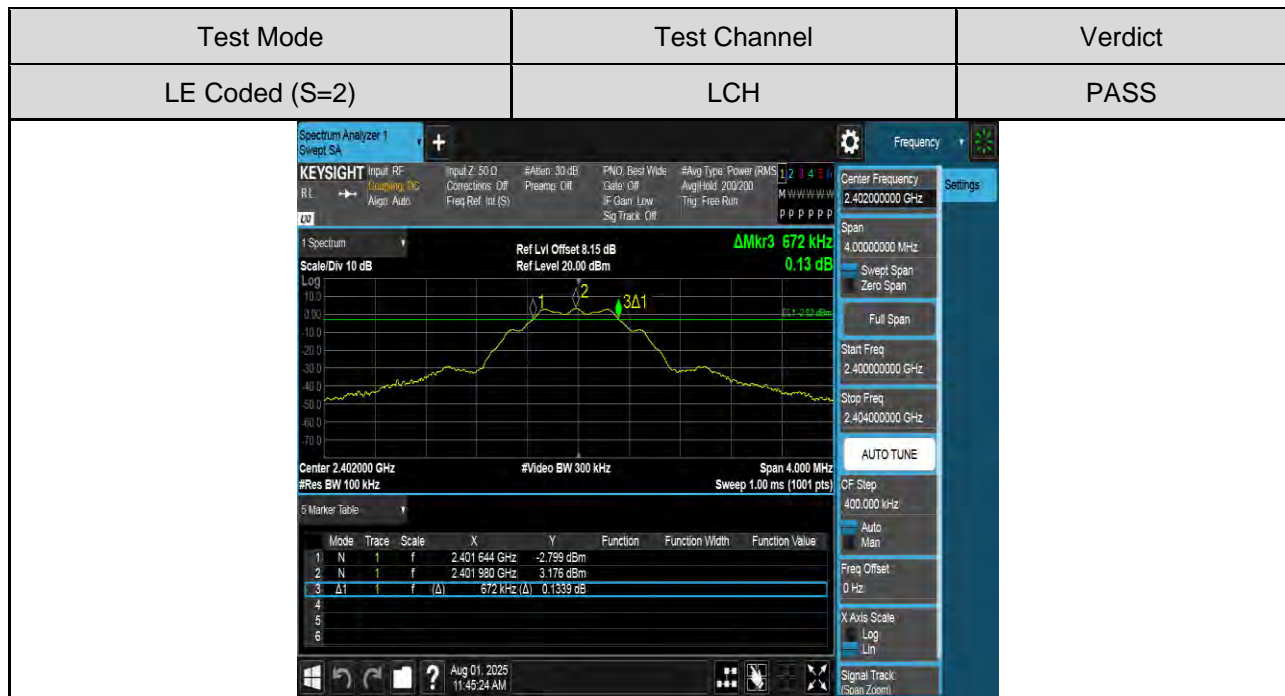
### 6dB Bandwidth

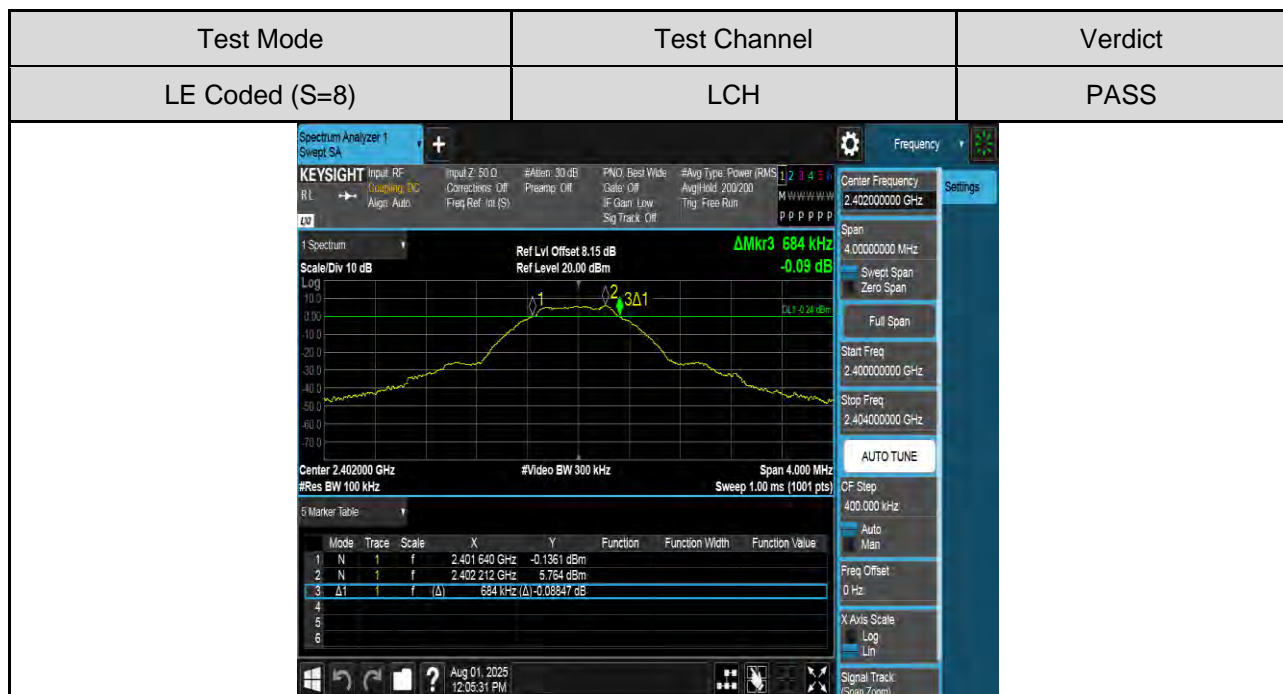
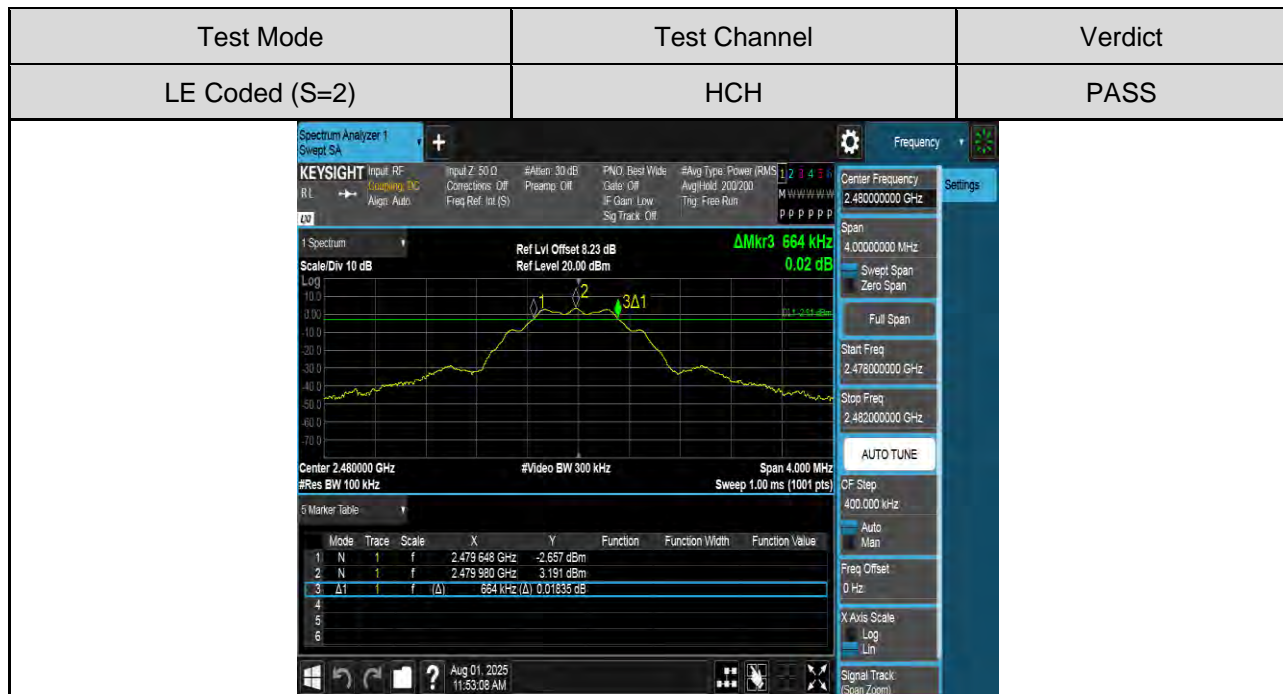


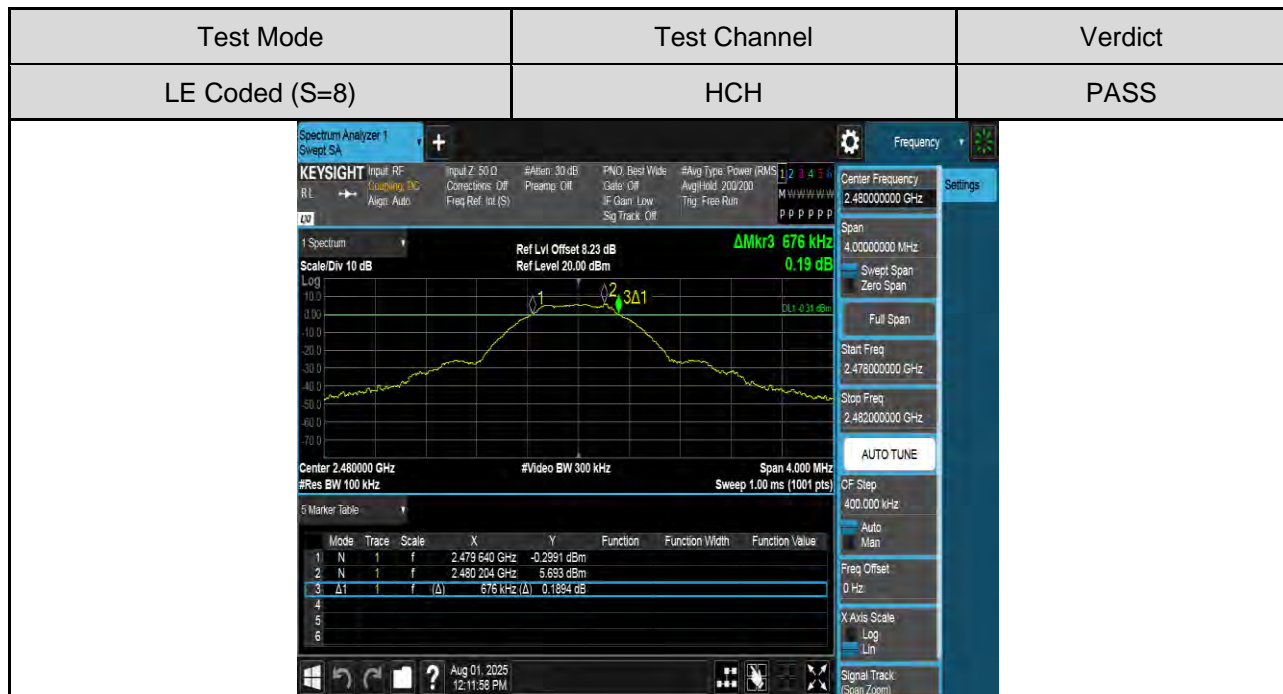
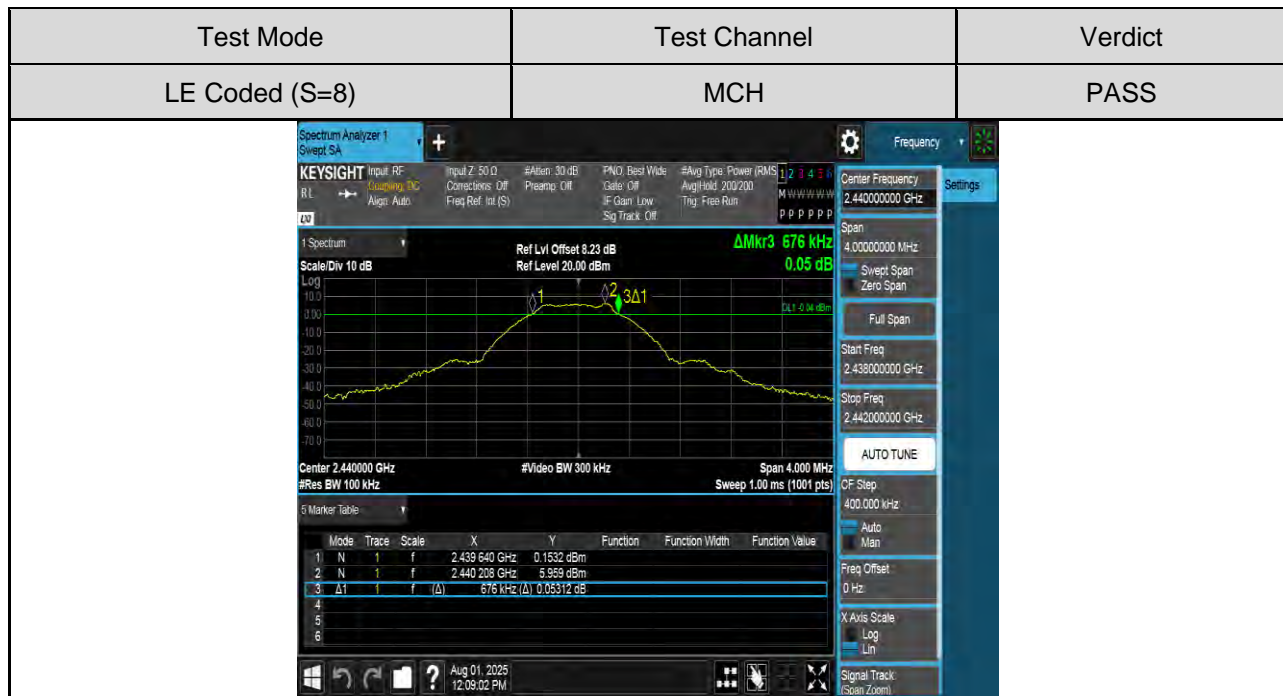






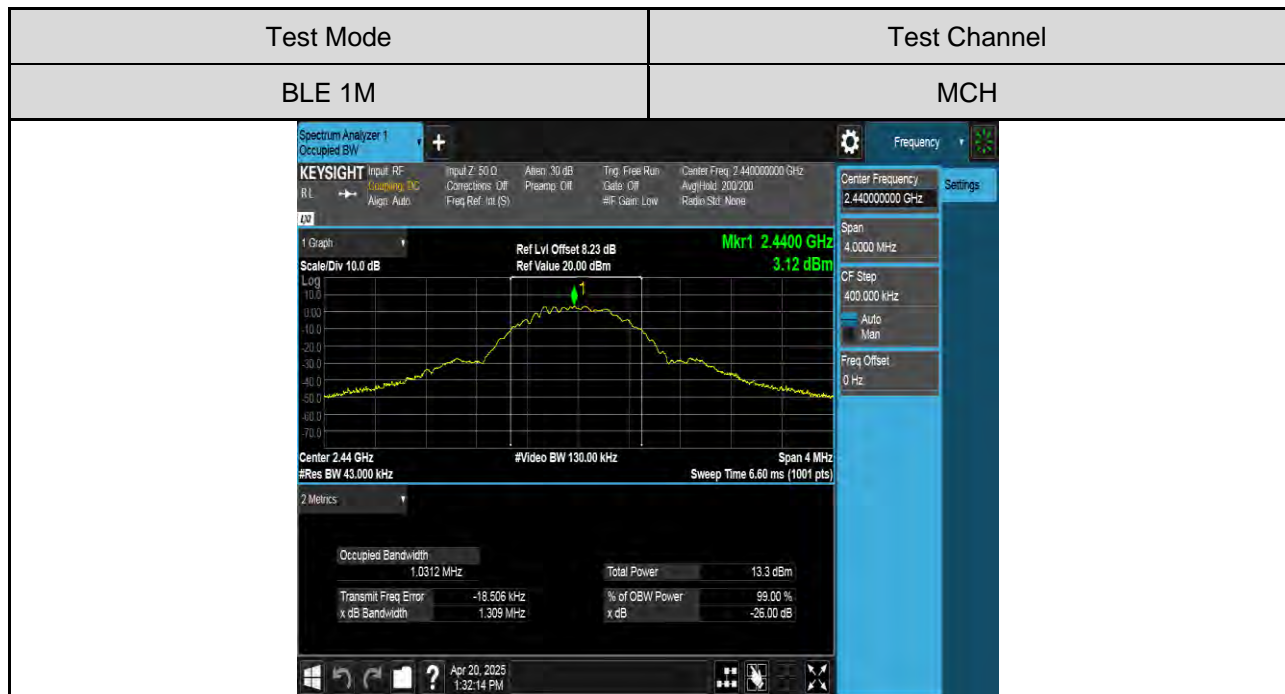


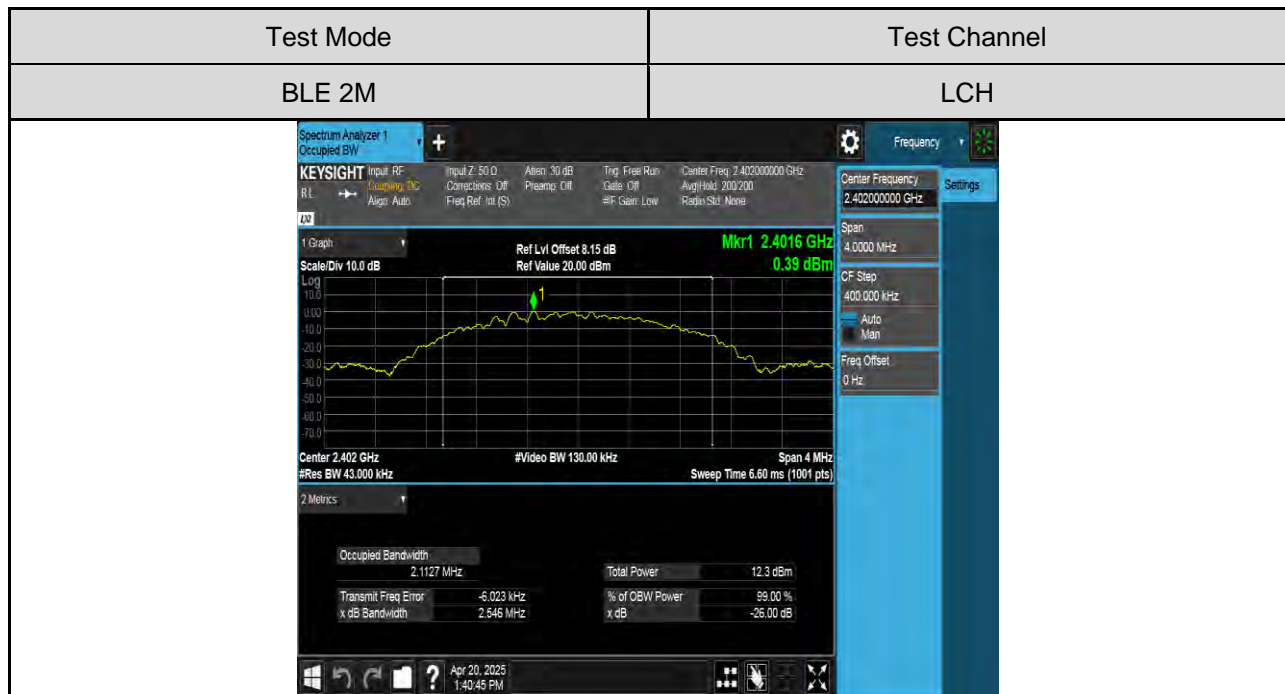
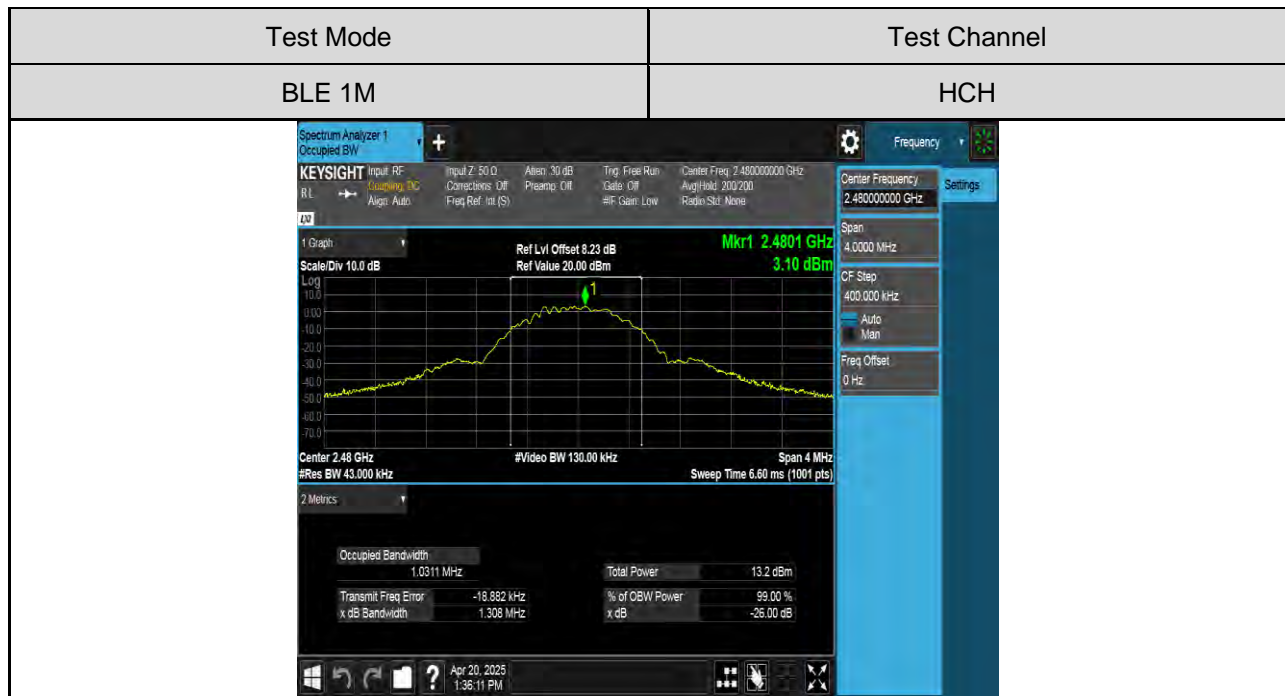


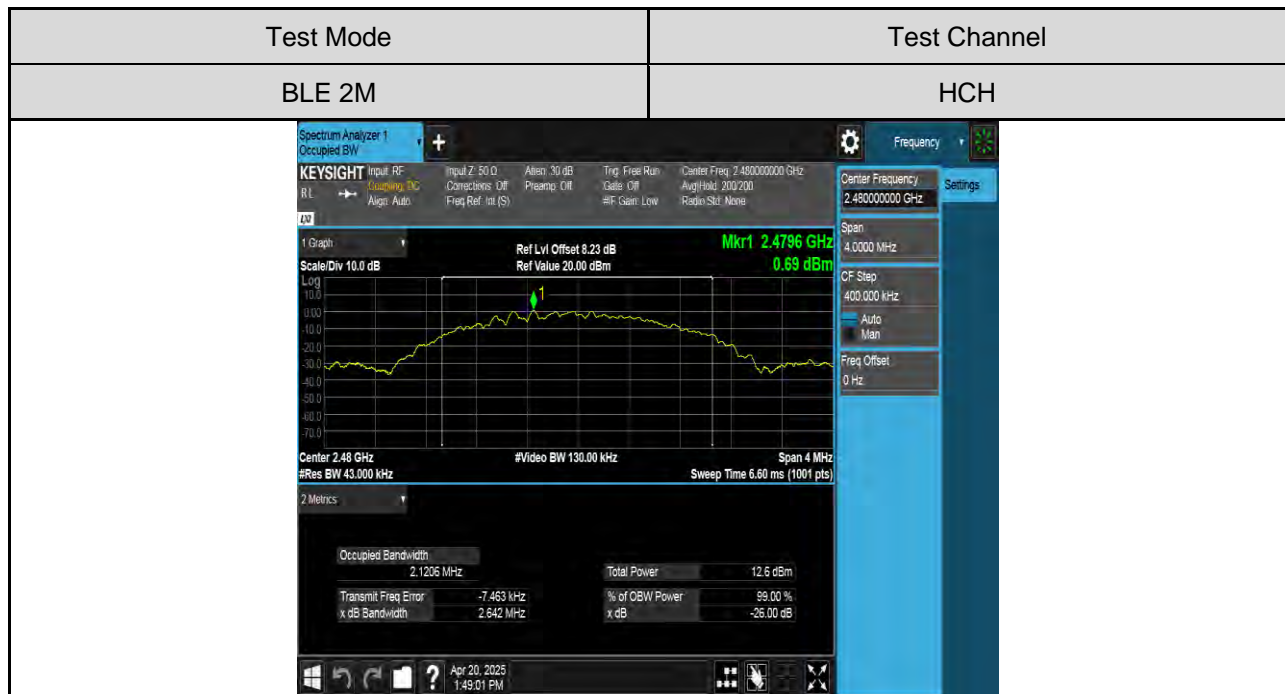
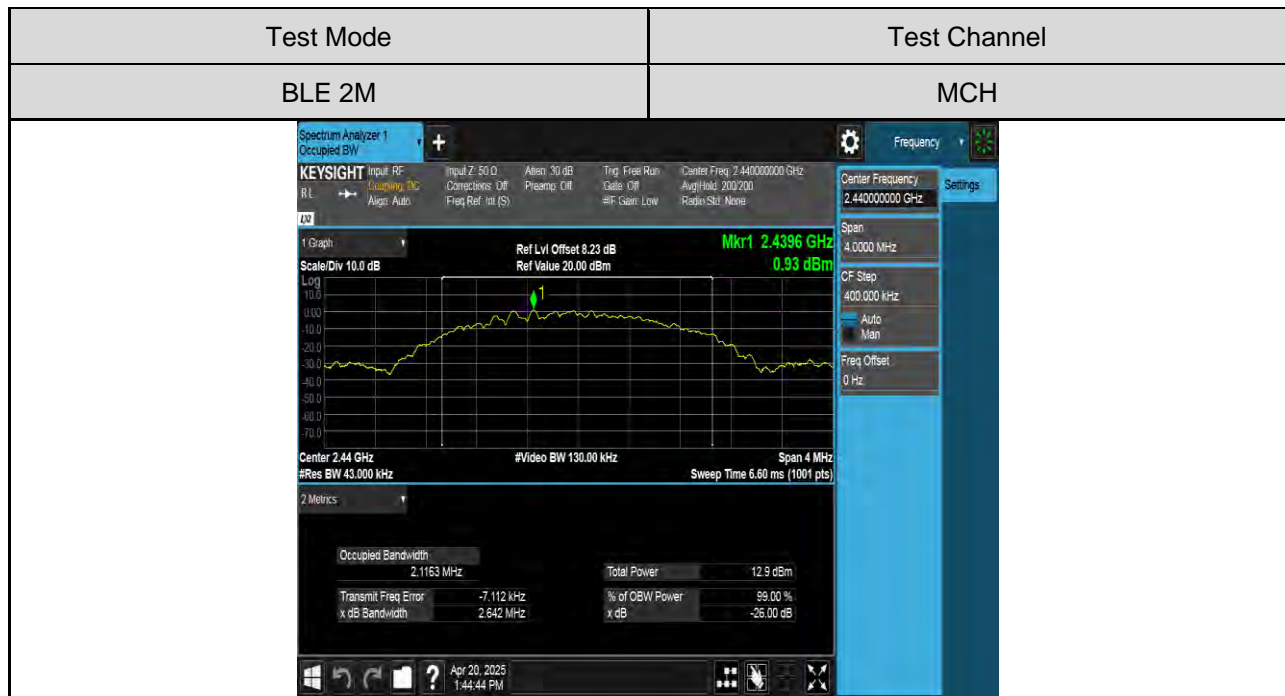


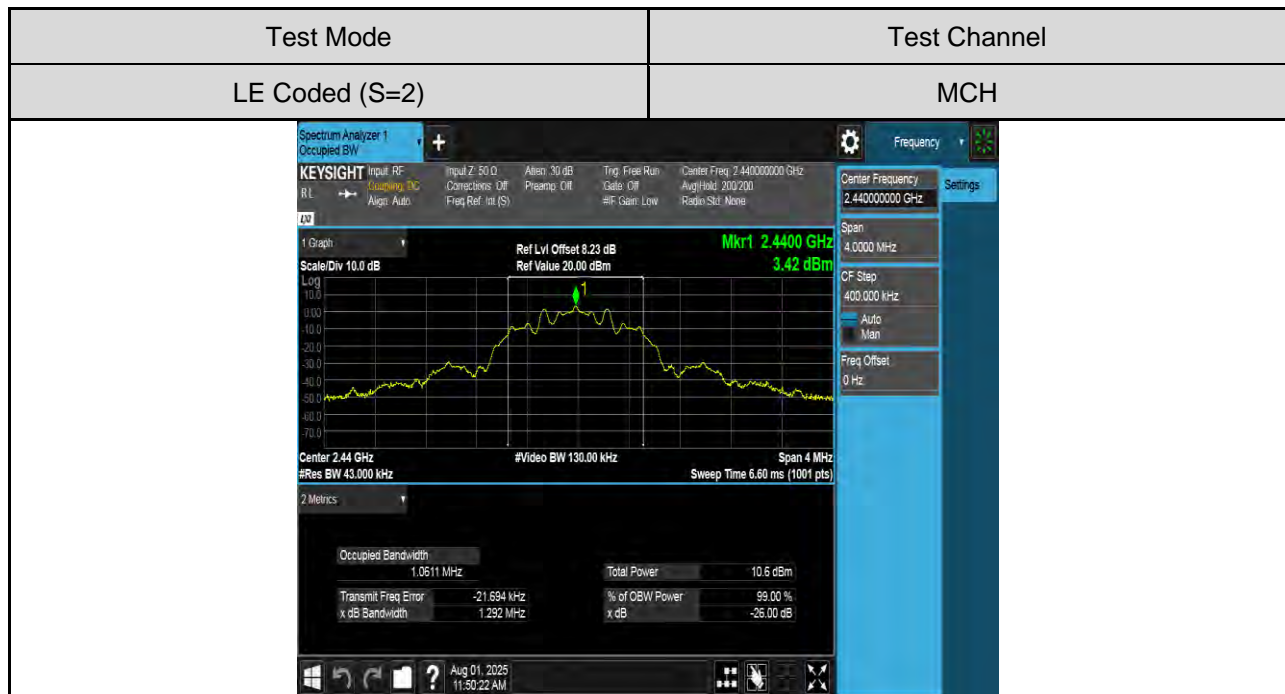
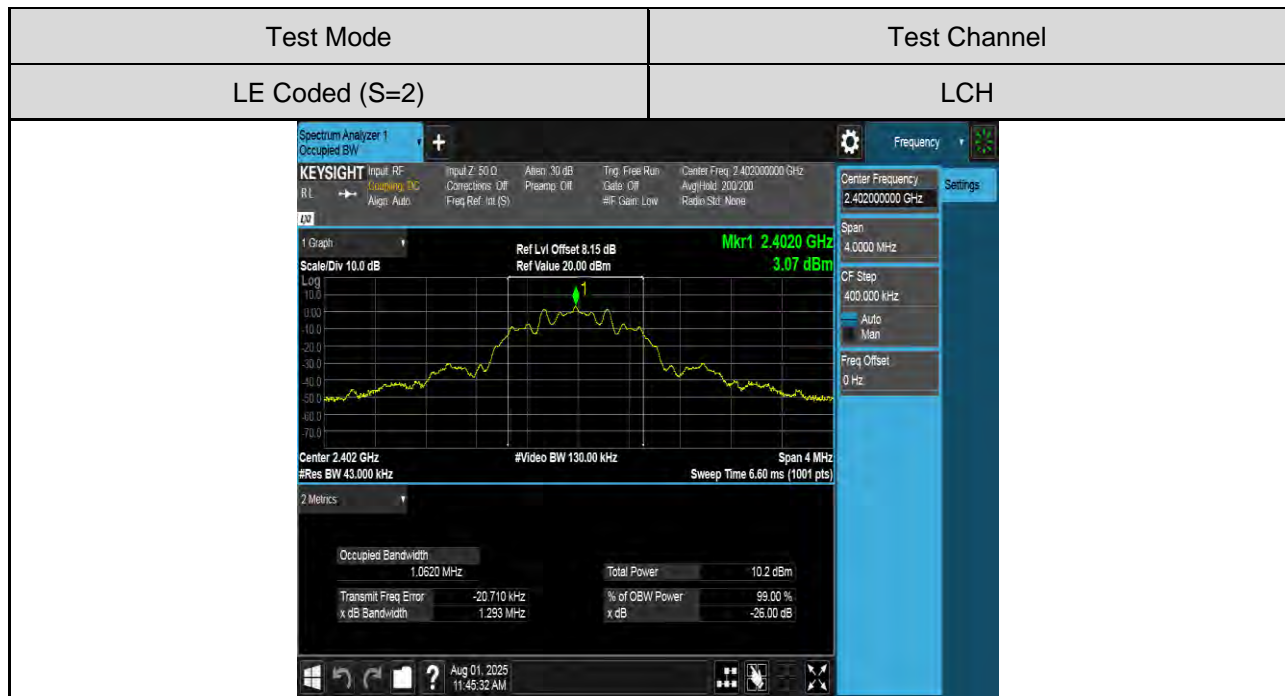


### 99% Bandwidth

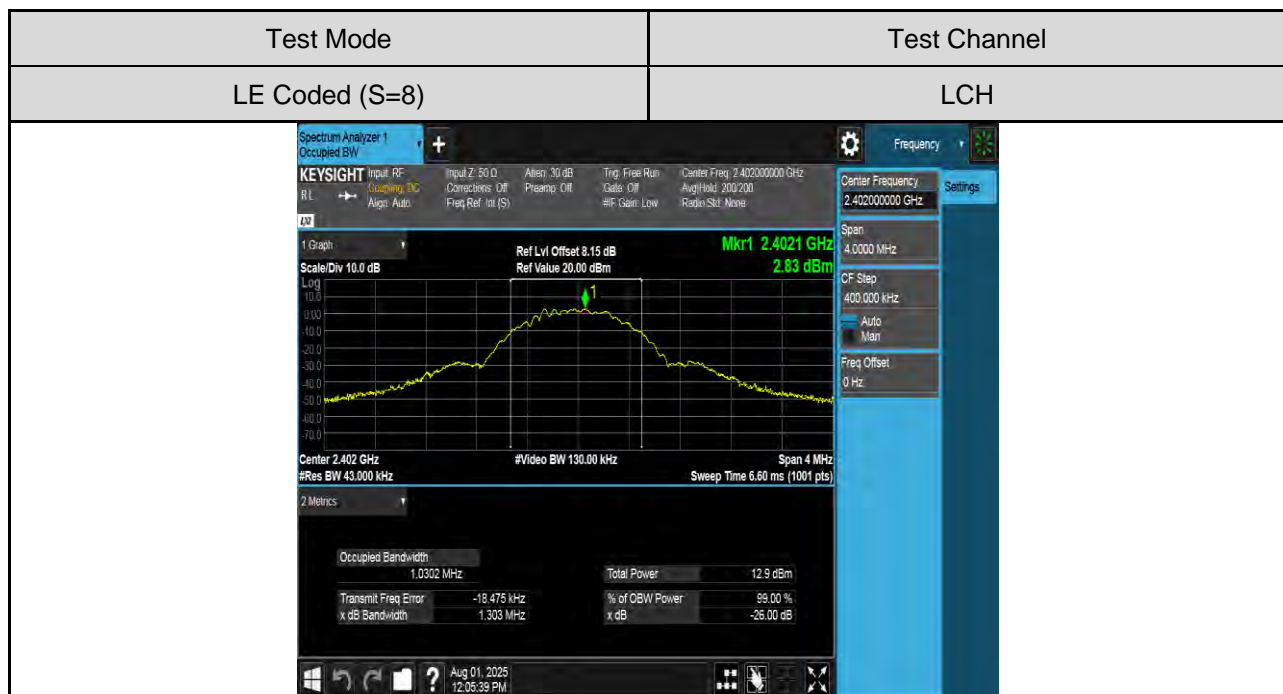
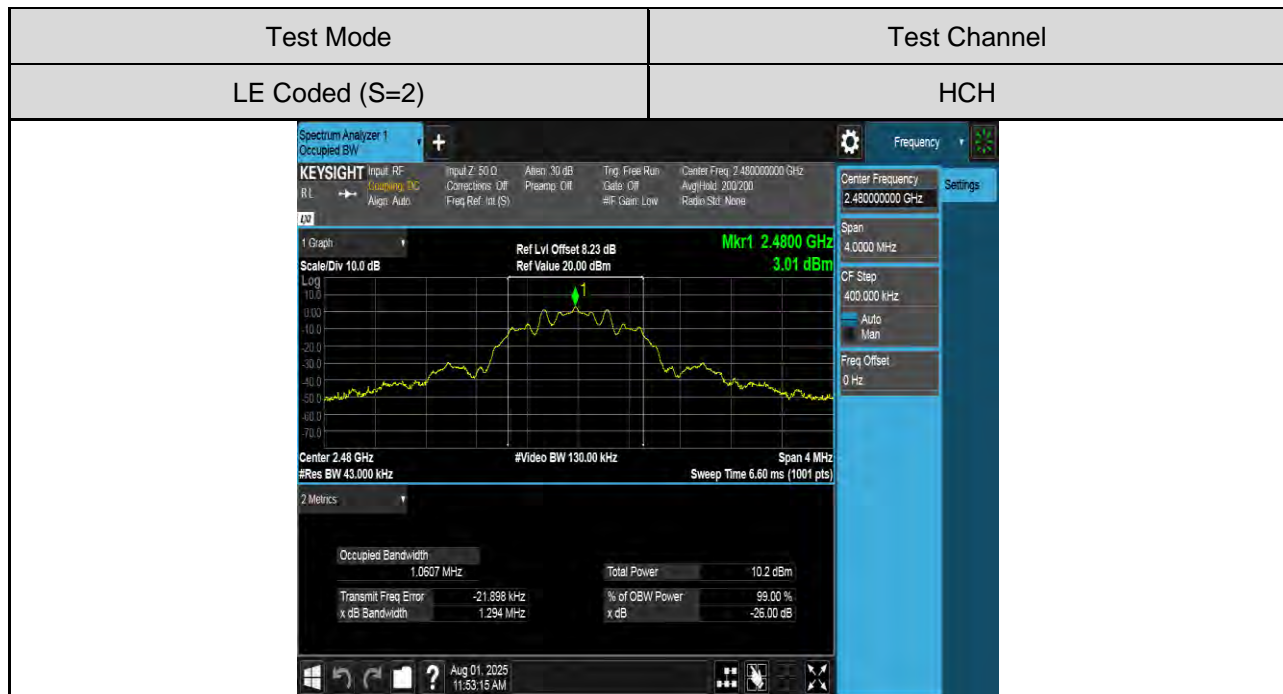


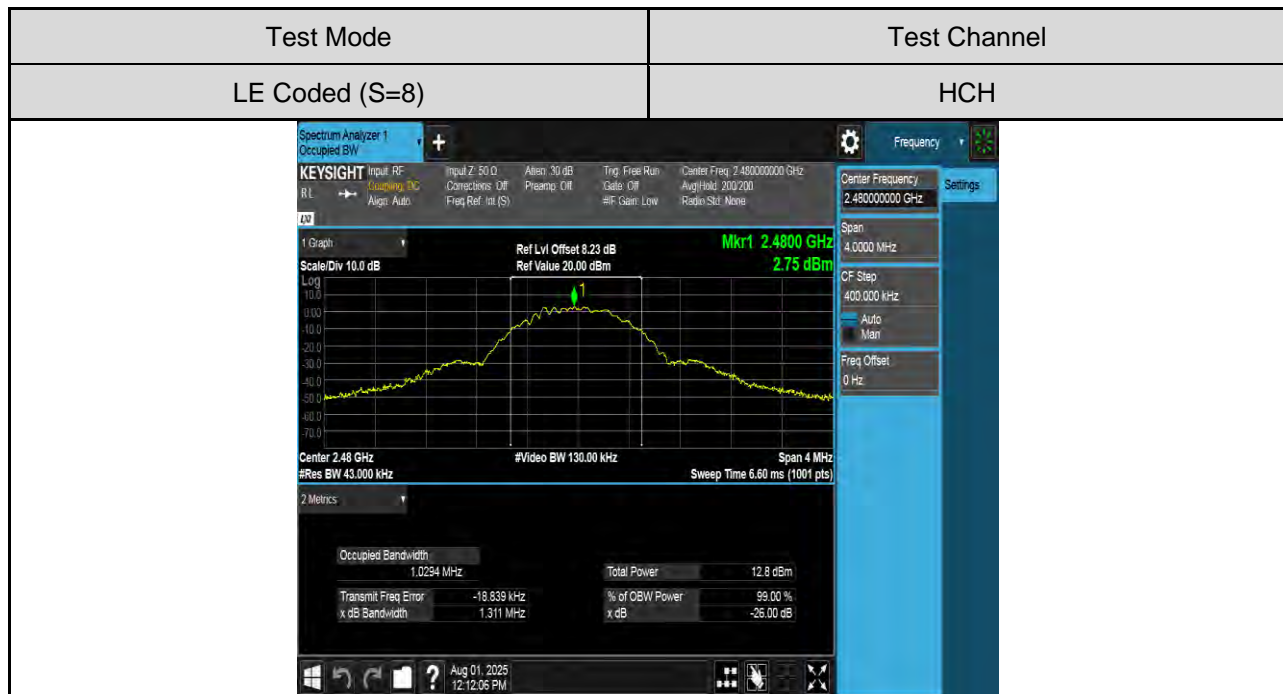












### 7.3. CONDUCTED OUTPUT POWER

#### LIMITS

FCC Part15 (15.247), Subpart C			
Section	Test Item	Limit	Frequency Range (MHz)
FCC 15.247(b)(3)	Output Power	1 watt or 30dBm	2400-2483.5

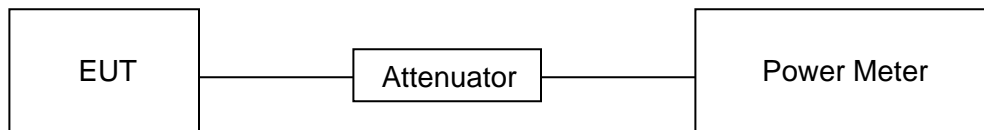
#### TEST PROCEDURE

Place the EUT on the table and set it in the transmitting mode.  
Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the Power sensor.  
Measure the power of each channel.  
PK Detector used for PK result.  
Peak Detector used for Peak result.

#### TEST ENVIRONMENT

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

#### TEST SETUP



**TEST RESULTS TABLE**

Test Mode	Test Channel	Maximum Conducted Output Power (PK)	LIMIT
		dBm	dBm
BLE 1M	LCH	6.43	30
	MCH	6.87	30
	HCH	6.84	30
BLE 2M	LCH	6.54	30
	MCH	7.12	30
	HCH	6.86	30
LE Coded (S=2)	LCH	6.60	30
	MCH	6.92	30
	HCH	6.53	30
LE Coded (S=8)	LCH	6.59	30
	MCH	6.81	30
	HCH	6.55	30



## 7.4. POWER SPECTRAL DENSITY

### LIMITS

FCC Part15 (15.247), Subpart C			
Section	Test Item	Limit	Frequency Range (MHz)
FCC §15.247 (e)	Power Spectral Density	8 dBm/3 kHz	2400-2483.5

### TEST PROCEDURE

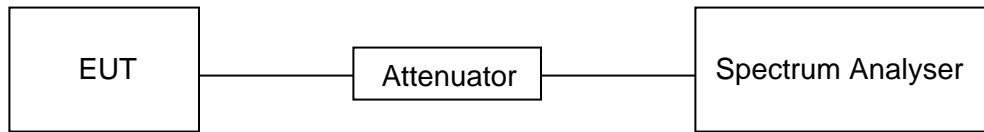
Refer to FCC KDB 558074, connect the UUT to the spectrum analyser and use the following settings:

Center Frequency	The centre frequency of the channel under test
Detector	Peak
RBW	$3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$
VBW	$\geq 3 \times \text{RBW}$
Span	$1.5 \times \text{DTS bandwidth}$
Trace	Max hold
Sweep time	Auto couple.

Allow trace to fully stabilize and use the peak marker function to determine the maximum amplitude level within the RBW.

If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

### TEST SETUP



### TEST ENVIRONMENT

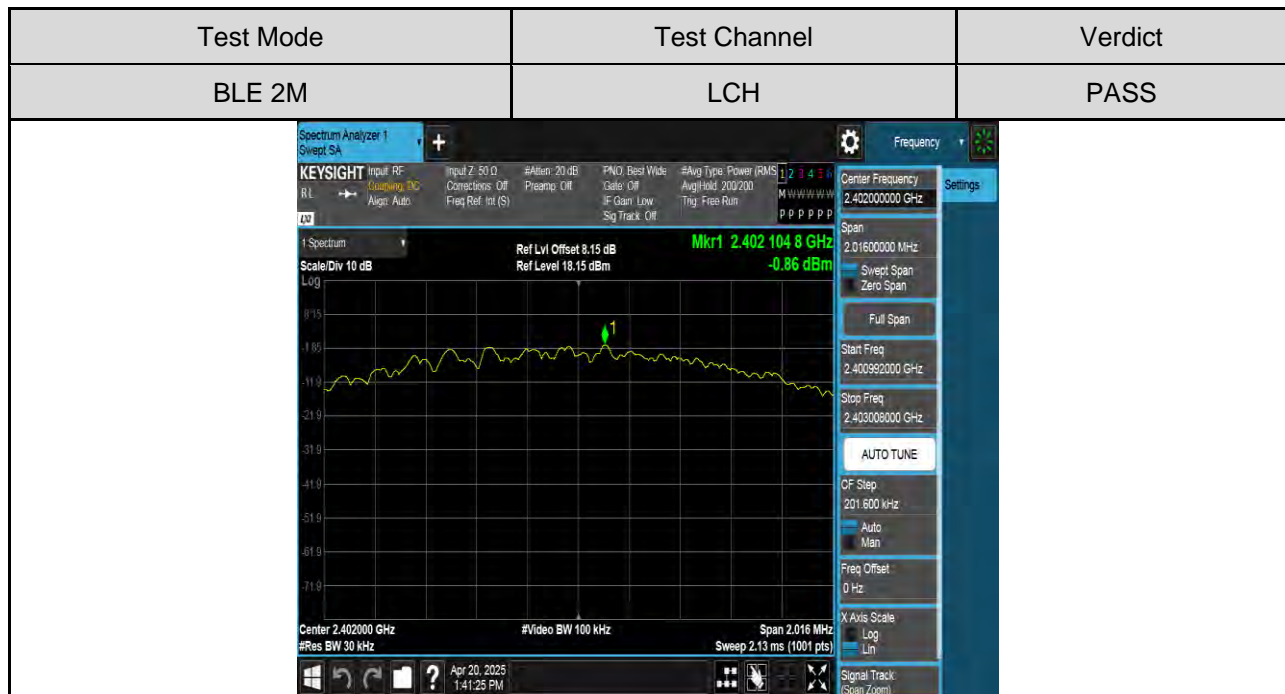
Temperature	22°C	Relative Humidity	56%
Atmosphere Pressure	101kPa	Test Voltage	AC 120V

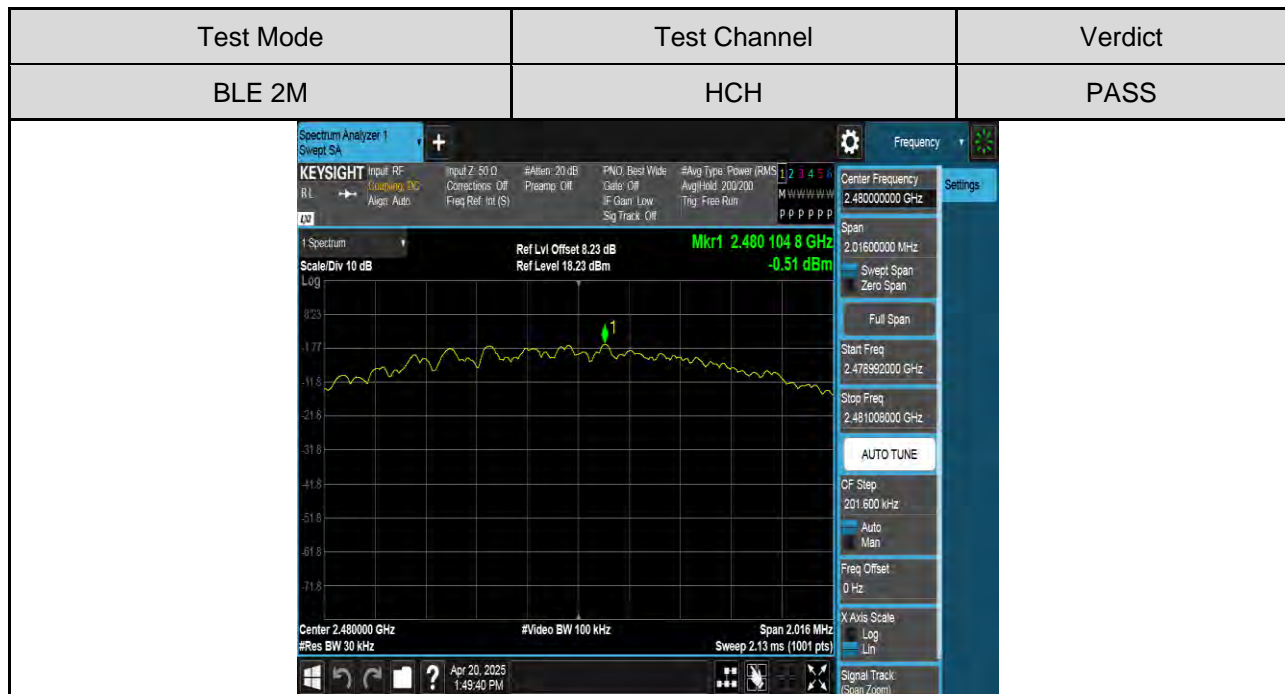
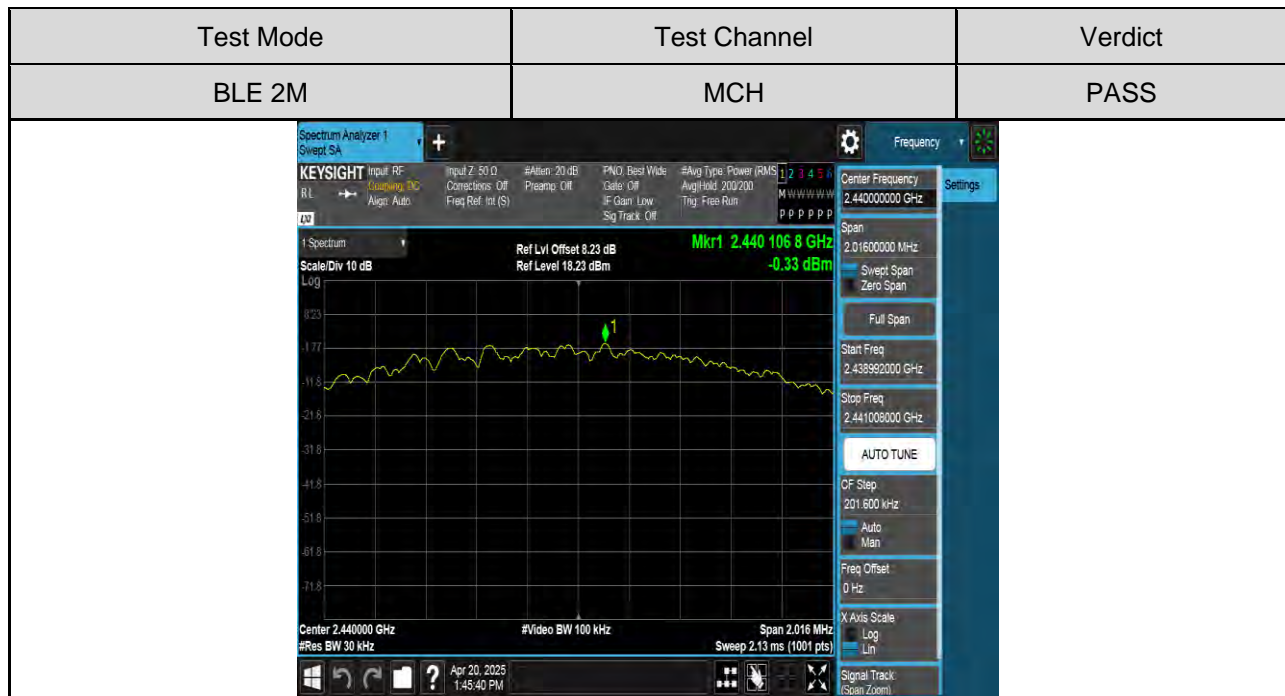
### TEST RESULTS TABLE

Test Mode	Test Channel	Maximum Peak power spectral density (dBm/30kHz)	Verdict
BLE 1M	LCH	1.52	Pass
	MCH	1.87	Pass
	HCH	1.88	Pass
BLE 2M	LCH	-0.86	Pass
	MCH	-0.33	Pass
	HCH	-0.51	Pass

### TEST GRAPHS







## 7.5. CONDUCTED BANDEDGE AND SPURIOUS EMISSIONS

### LIMITS

FCC Part15 (15.247), Subpart C		
Section	Test Item	Limit
FCC §15.247 (d)	Conducted Bandedge and Spurious Emissions	20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power

### TEST PROCEDURE

Refer to FCC KDB 558074, connect the UUT to the spectrum analyser and use the following settings:

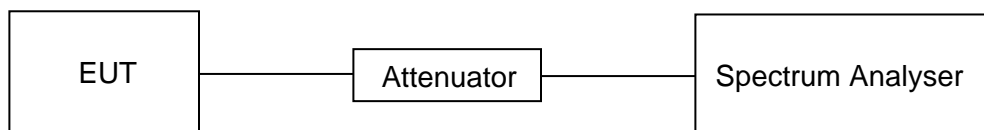
Center Frequency	The centre frequency of the channel under test
Detector	Peak
RBW	100 kHz
VBW	$\geq 3 \times \text{RBW}$
Span	1.5 x DTS bandwidth
Trace	Max hold
Sweep time	Auto couple.

Use the peak marker function to determine the maximum PSD level.

Span	Set the center frequency and span to encompass frequency range to be measured
Detector	Peak
RBW	100 kHz
VBW	$\geq 3 \times \text{RBW}$
measurement points	$\geq \text{span}/\text{RBW}$
Trace	Max hold
Sweep time	Auto couple.

Use the peak marker function to determine the maximum amplitude level.

### TEST SETUP





## TEST ENVIRONMENT

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

## PART 1: REFERENCE LEVEL MEASUREMENT

### TEST RESULTS TABLE

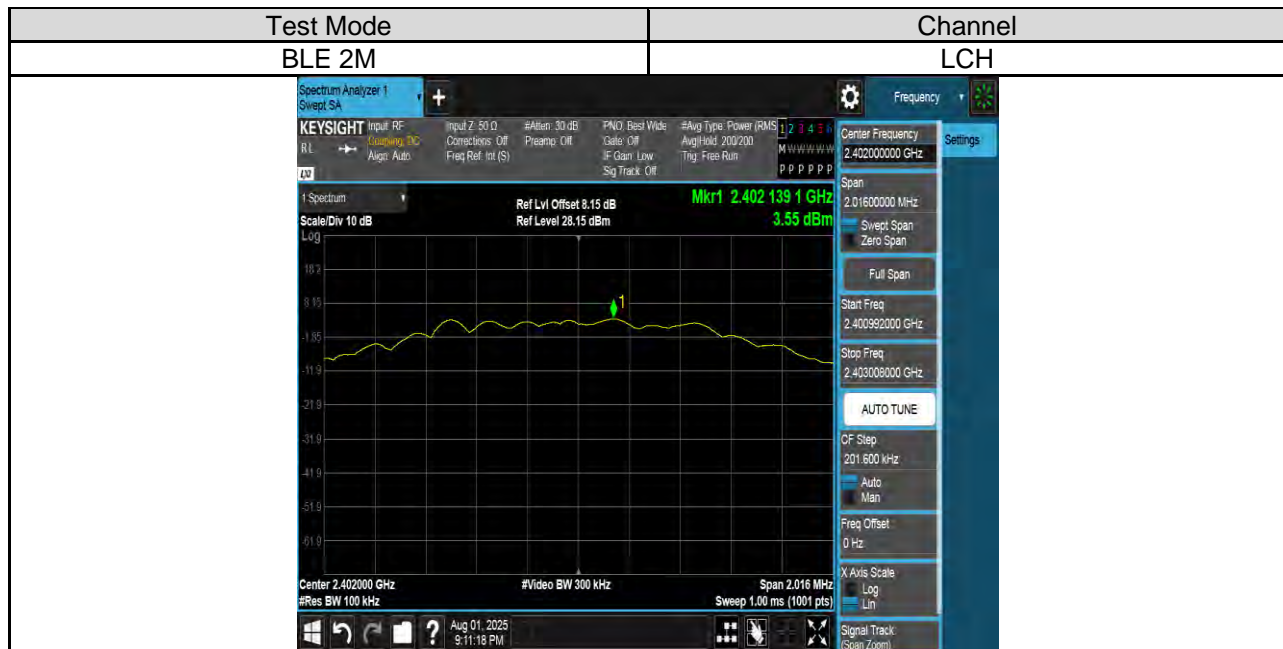
Test Mode	Test Channel	Result[dBm]
BLE 1M	LCH	5.58
	MCH	6.00
	HCH	5.97
BLE 2M	LCH	3.55
	MCH	3.87
	HCH	3.81

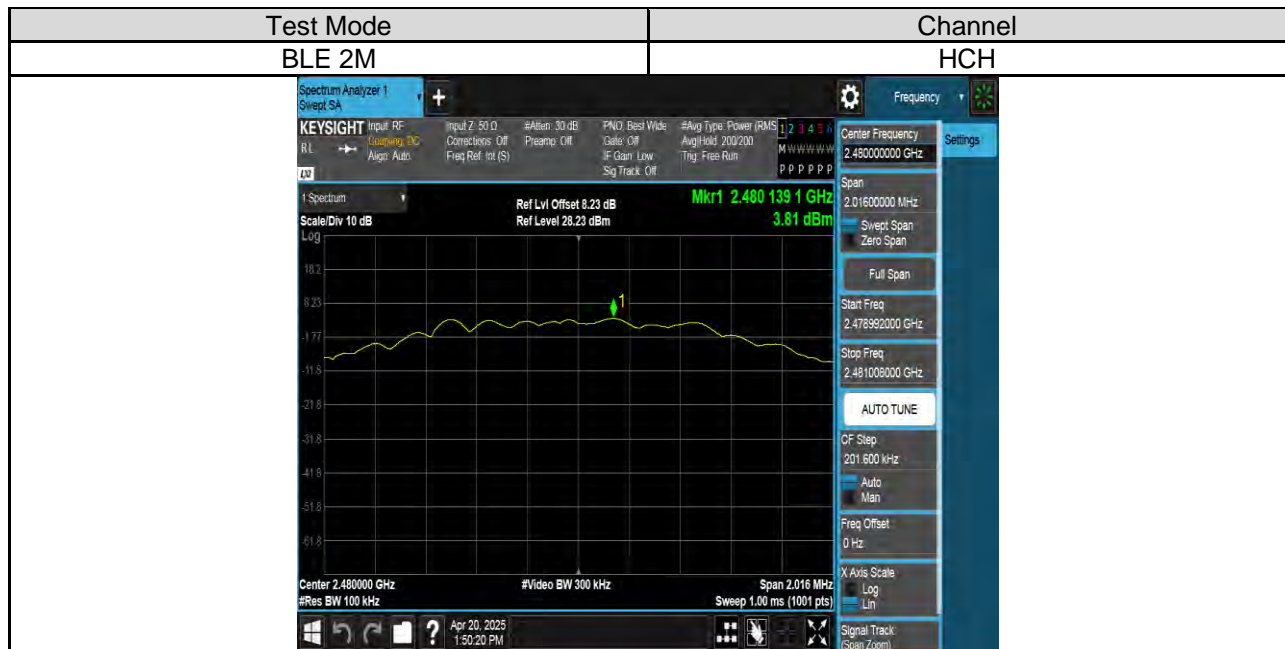
## TEST GRAPHS







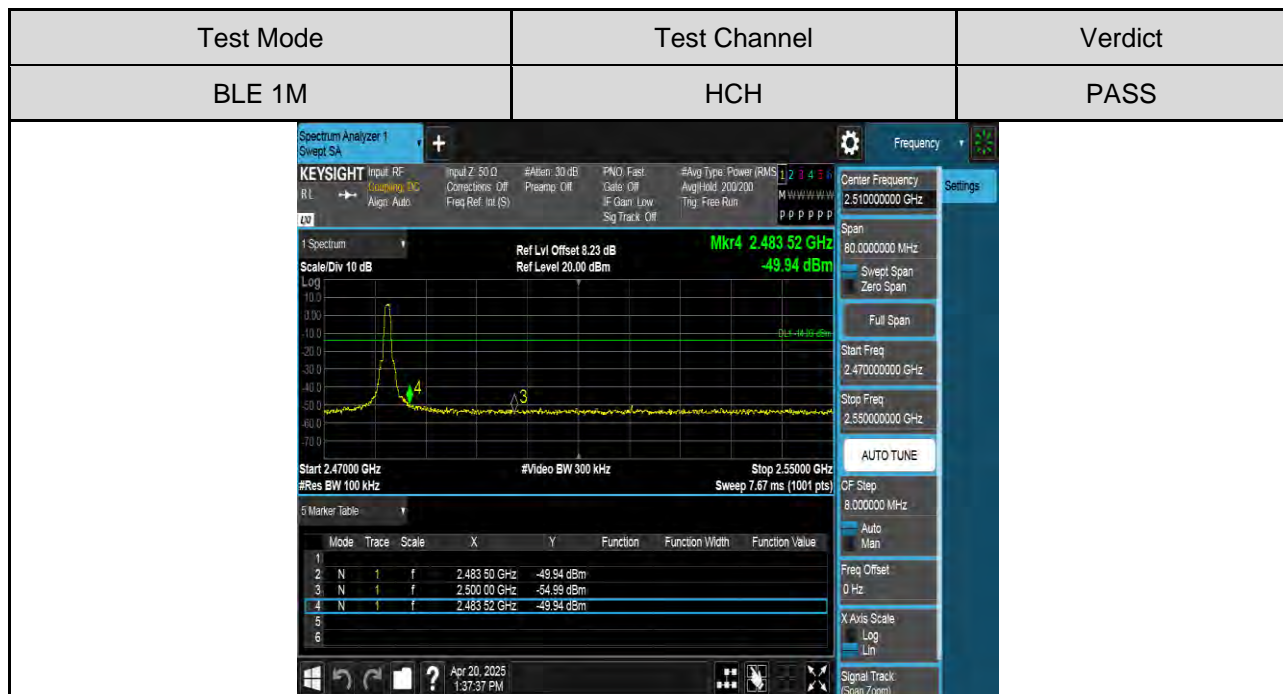
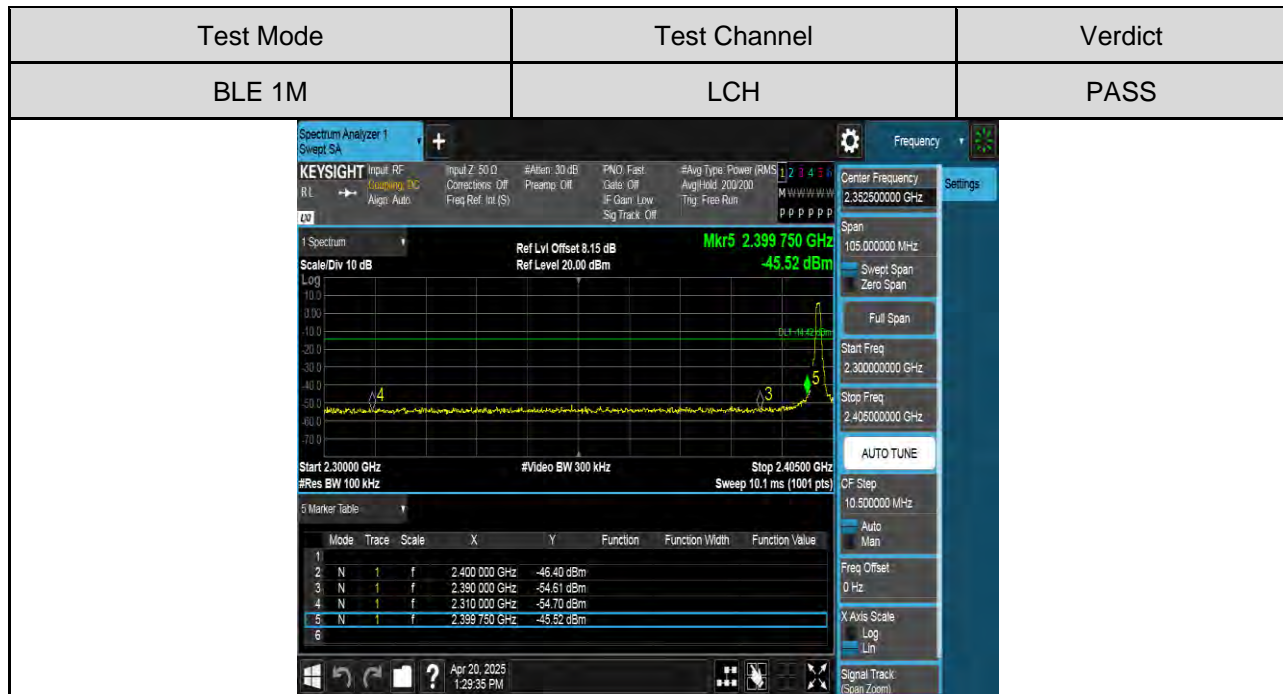


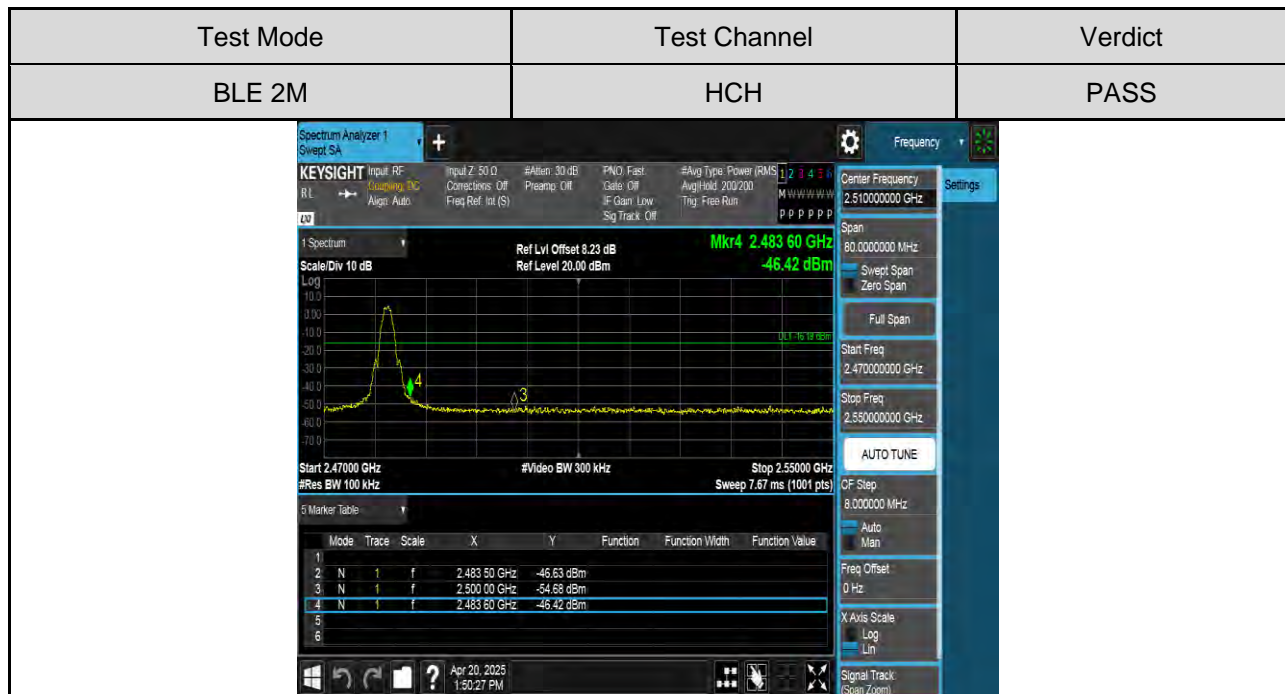
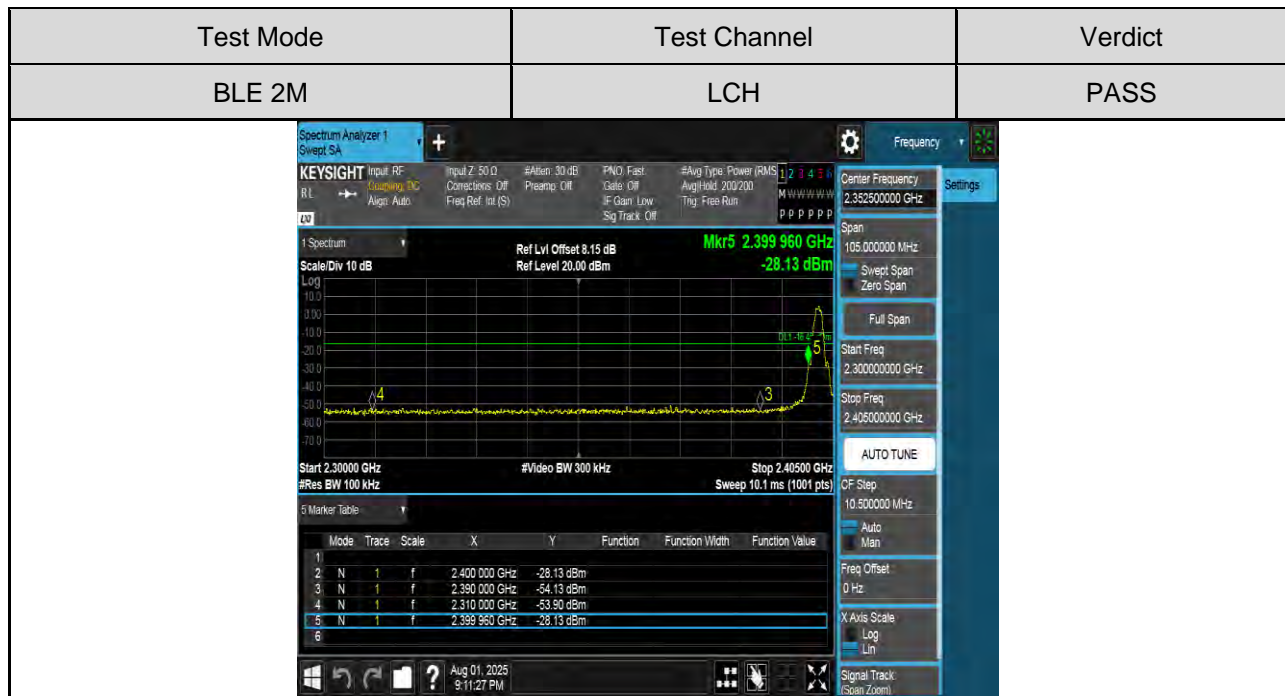


**PART 2: CONDUCTED BANDEDGE****TEST RESULTS TABLE**

Test Mode	Test Channel	Result	Verdict
BLE 1M	LCH	Refer to the Test Graph	PASS
	HCH	Refer to the Test Graph	PASS
BLE 2M	LCH	Refer to the Test Graph	PASS
	HCH	Refer to the Test Graph	PASS

### TEST GRAPHS





**PART 3: CONDUCTED SPURIOUS EMISSION****TEST RESULTS TABLE**

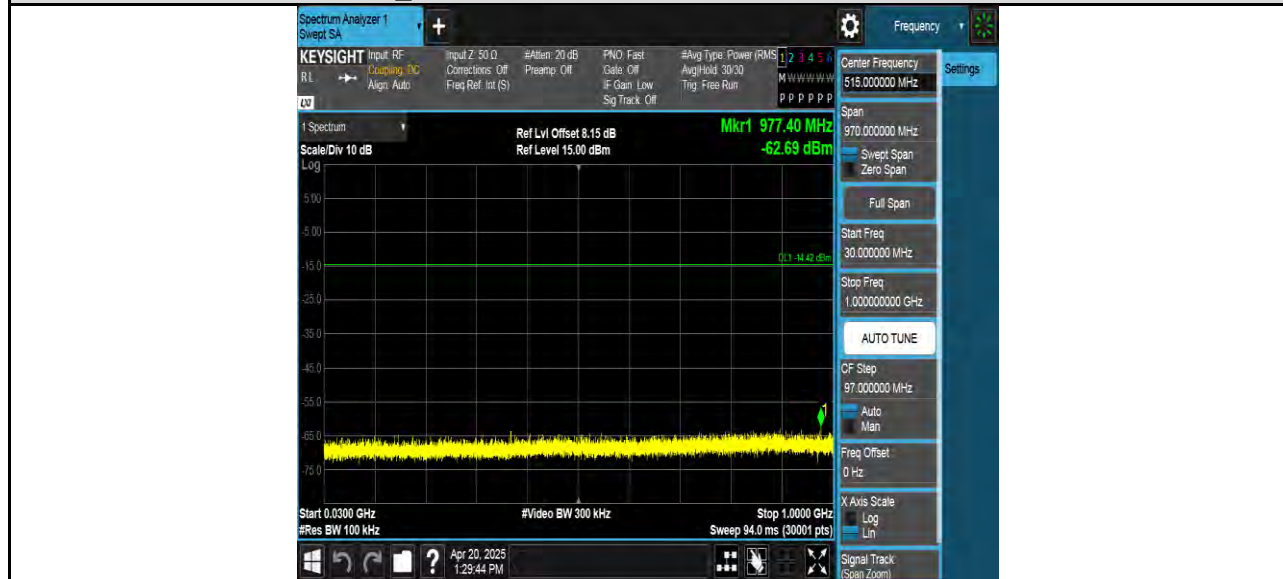
Test Mode	Test Channel	Result	Verdict
BLE 1M	LCH	Refer to the Test Graph	PASS
	MCH	Refer to the Test Graph	PASS
	HCH	Refer to the Test Graph	PASS
BLE 2M	LCH	Refer to the Test Graph	PASS
	MCH	Refer to the Test Graph	PASS
	HCH	Refer to the Test Graph	PASS



## TEST GRAPHS

Test Mode	Channel	Verdict
BLE 1M	LCH	PASS

### LCH SPURIOUS EMISSION\_30MHz~1GHz

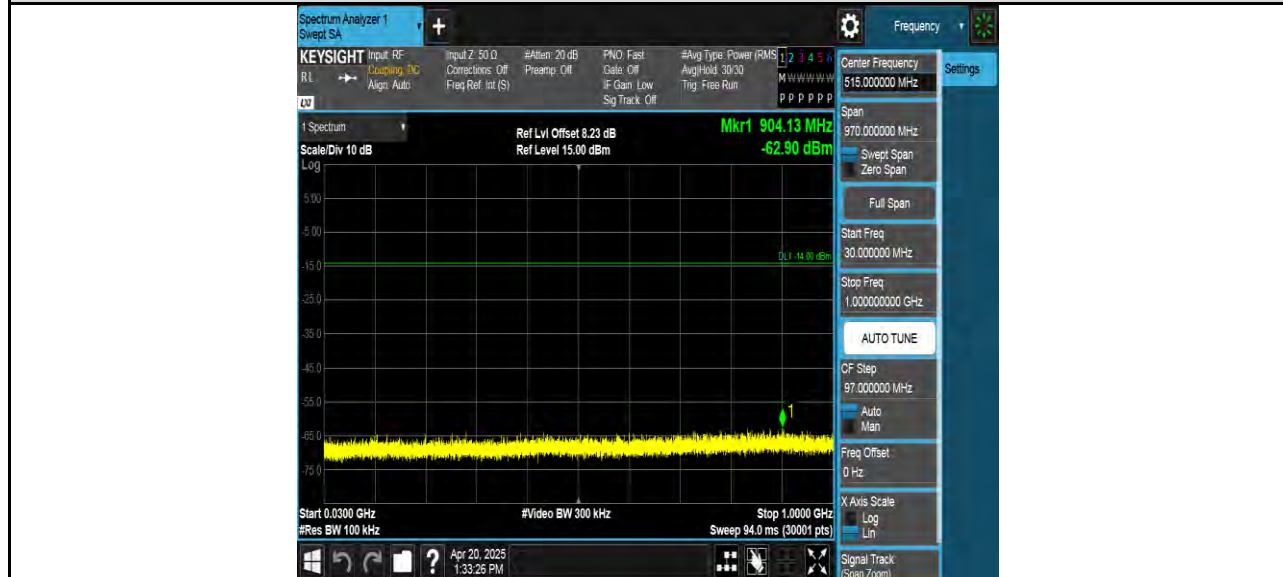


### LCH SPURIOUS EMISSION\_1GHz~26.5GHz



Test Mode	Channel	Verdict
BLE 1M	MCH	PASS

### MCH SPURIOUS EMISSION\_30MHz~1GHz



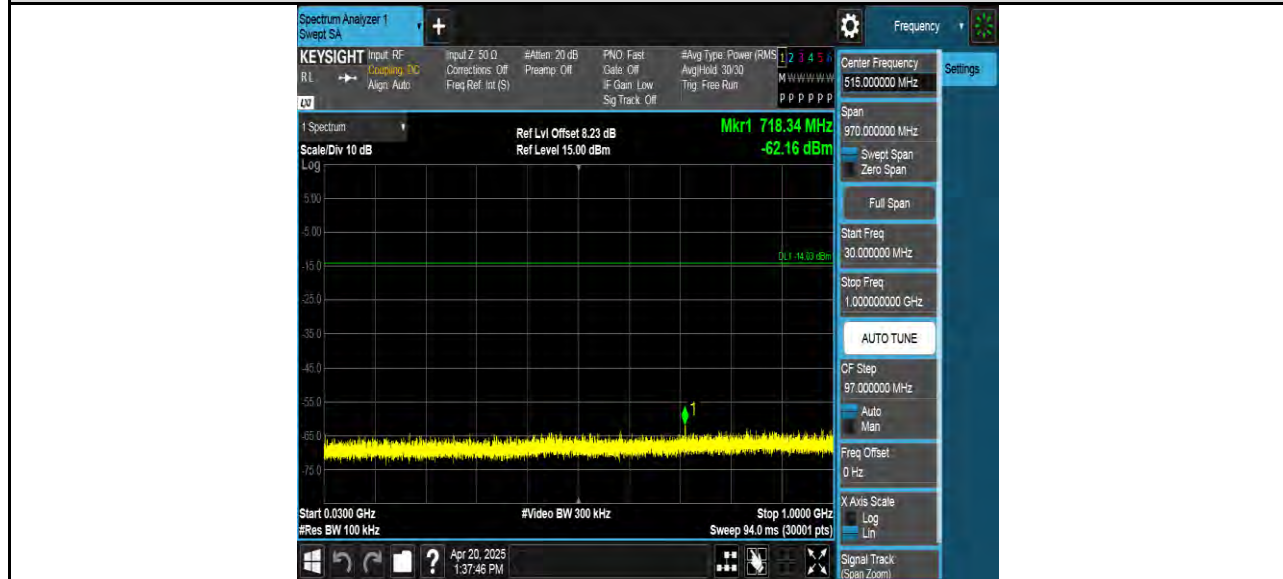
### MCH SPURIOUS EMISSION\_1GHz~26.5GHz





Test Mode	Channel	Verdict
BLE 1M	HCH	PASS

### HCH SPURIOUS EMISSION\_30MHz~1GHz



### HCH SPURIOUS EMISSION\_1GHz~26.5GHz



Test Mode	Channel	Verdict
BLE 2M	LCH	PASS

### LCH SPURIOUS EMISSION\_30MHz~1GHz

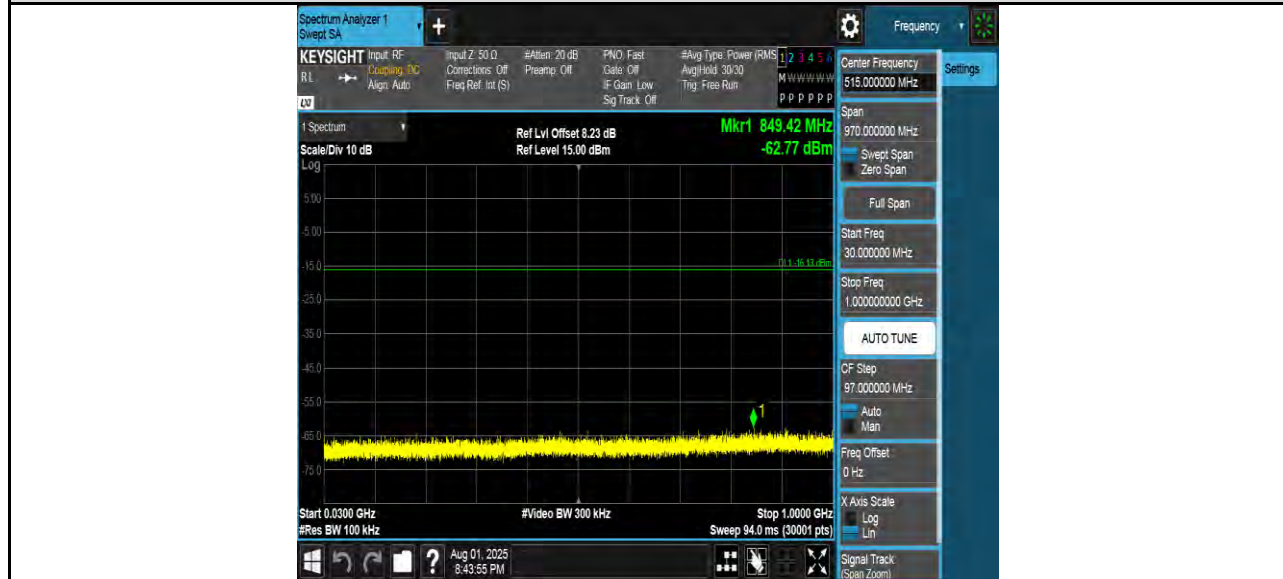


### LCH SPURIOUS EMISSION\_1GHz~26.5GHz



Test Mode	Channel	Verdict
BLE 2M	MCH	PASS

### MCH SPURIOUS EMISSION\_30MHz~1GHz

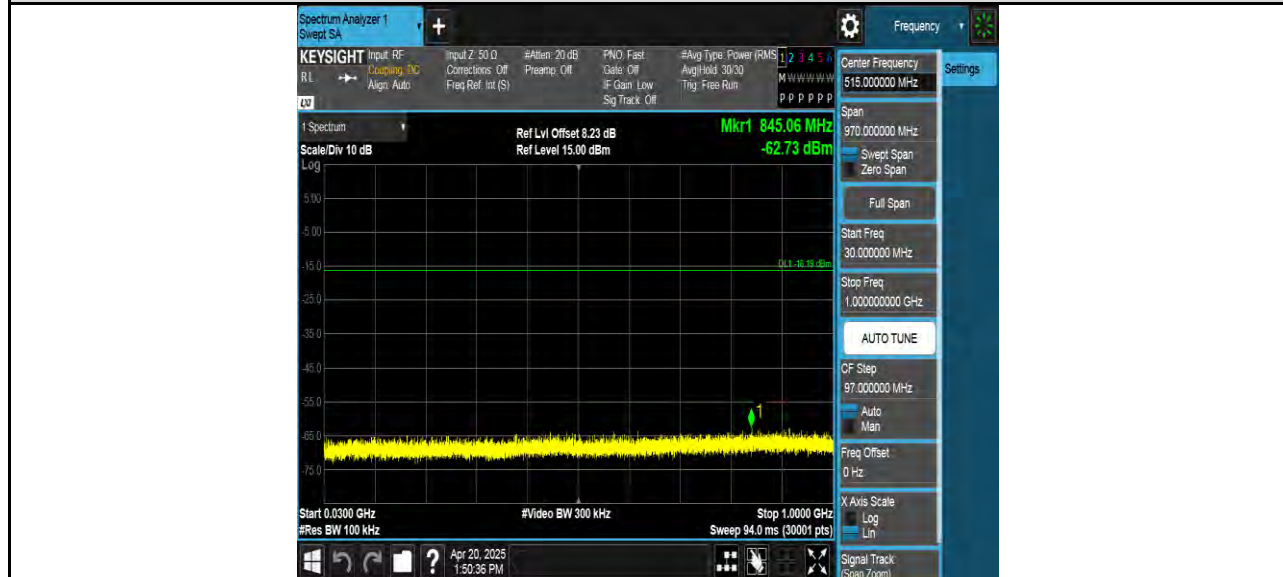


### MCH SPURIOUS EMISSION\_1GHz~26.5GHz



Test Mode	Channel	Verdict
BLE 2M	HCH	PASS

### HCH SPURIOUS EMISSION\_30MHz~1GHz



### HCH SPURIOUS EMISSION\_1GHz~26.5GHz





## 8. RADIATED TEST RESULTS

### 8.1. 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 ( $\mu\text{V/m}$ 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) ( $\mu\text{A/m}$ )	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.

Please refer to FCC KDB 558074

Radiation Disturbance Test Limit for FCC (Class B) (9kHz-1GHz)

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

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

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



## Radiation Disturbance Test Limit for FCC (Above 1G)

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

## Restricted bands of operation

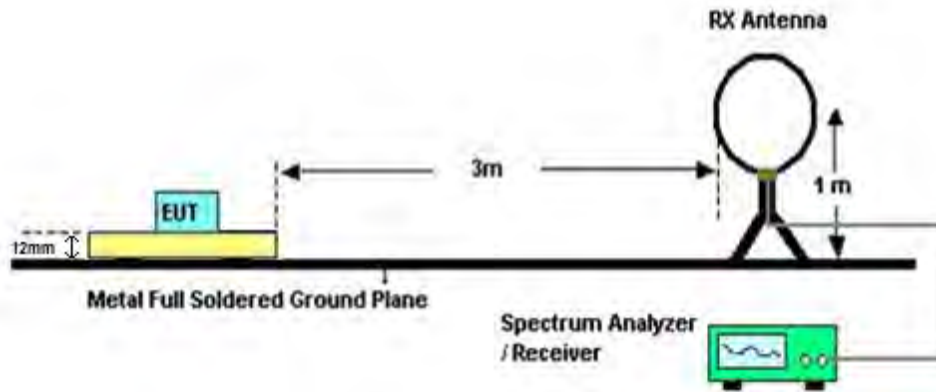
MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
<sup>1</sup> 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5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

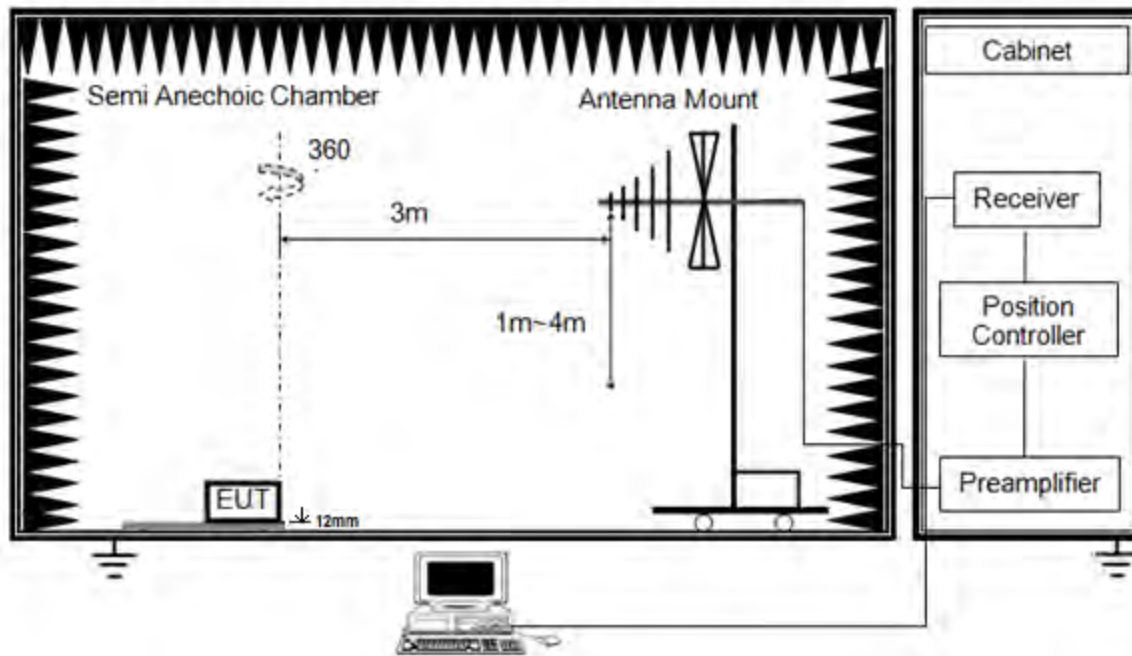


The setting of the spectrum analyser

RBW	200 Hz (From 9kHz to 0.15MHz) / 9kHz (From 0.15MHz to 30MHz)
VBW	200 Hz (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 12 mm 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 377  $\Omega$ . For example, the measurement frequency X kHz resulted in a level of Y dBuV/m, which is equivalent to  $Y-51.5 = Z$  dBuA/m, which has the same margin, W dB, to the corresponding RSS-GEN Table 6 limit as it has to be 15.209(a) limit.

Below 1G

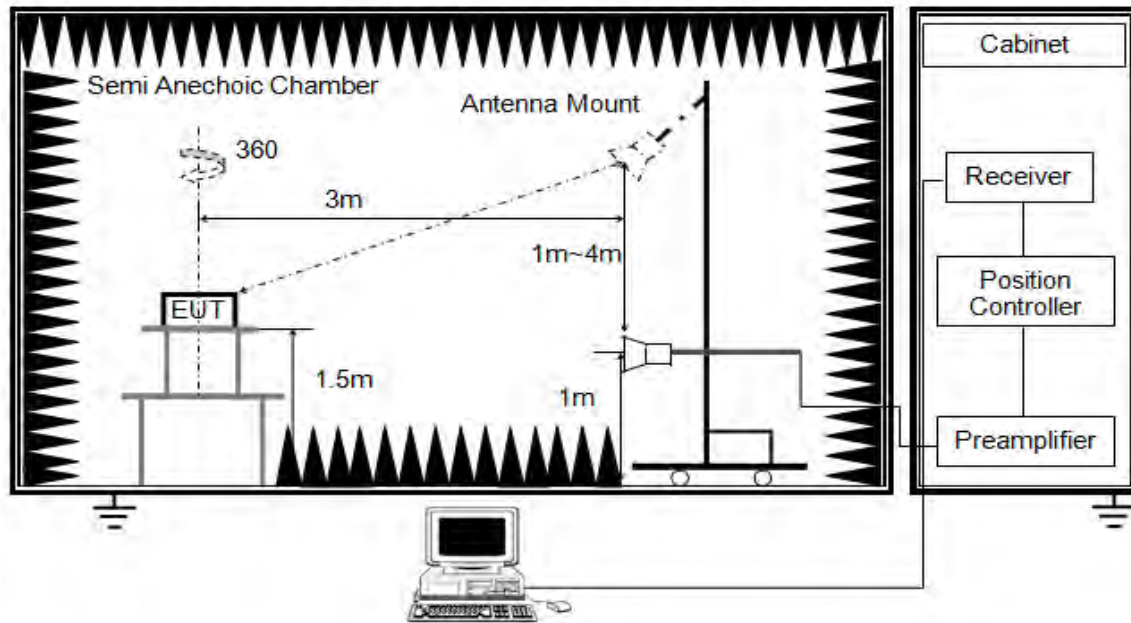


The setting of the spectrum analyser

RBW	120 kHz
VBW	300 kHz
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 12 mm 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

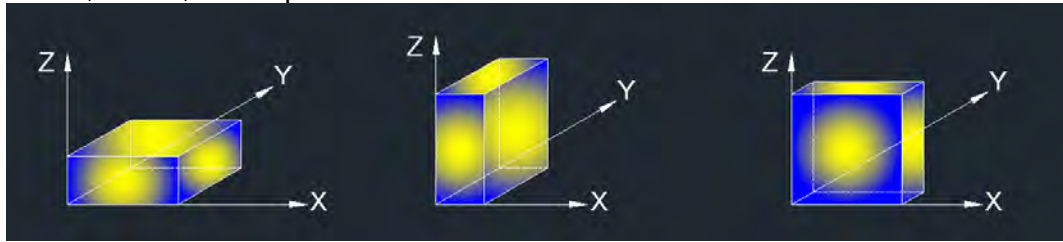


The setting of the spectrum analyser

RBW	1 MHz
VBW	PEAK:3 MHz 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  $[50 \cdot (1/\text{Duty Cycle})]$  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 worse case (Z axis) data recorded in the report.

## 8.2. TEST ENVIRONMENT

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

## 8.3. RESTRICTED BANDEDGE

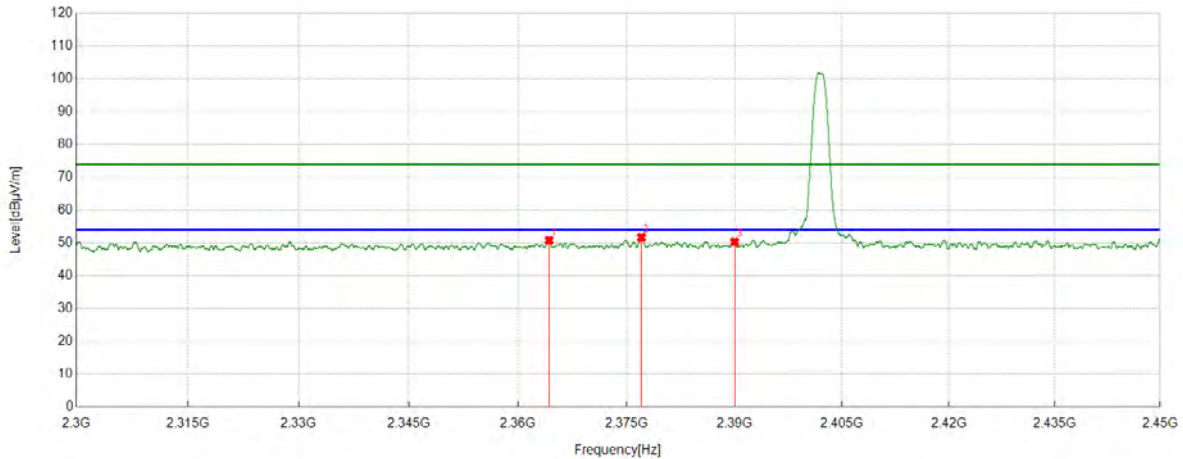
### TEST RESULT TABLE

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



## TEST GRAPHS

Test Mode	Channel	Polarization	Verdict
BLE 1M	LCH	Horizontal	PASS

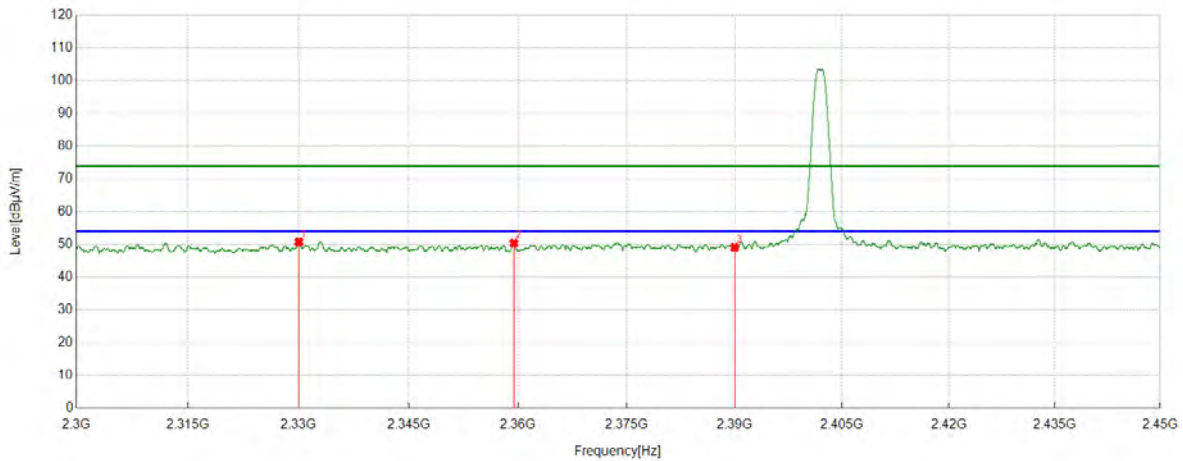


### PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	2364.3018	37.24	13.59	50.83	74.00	-23.17	Horizontal
2	2377.0534	37.97	13.75	51.72	74.00	-22.28	Horizontal
3	2390.0000	36.64	13.72	50.36	74.00	-23.64	Horizontal

- Note: 1. Peak result: Peak detector, RBW: 1 MHz, VBW: 3 MHz.  
2. Average result: Peak detector, RBW: 1 MHz, VBW: 1/T MHz (refer to clause 7.1.).  
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 1M	LCH	Vertical	PASS

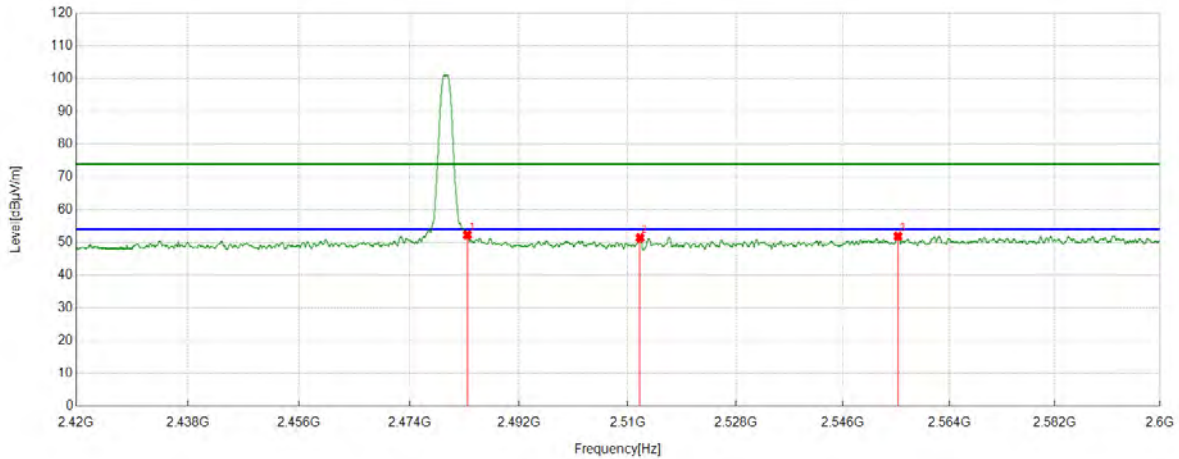


PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	2330.0600	37.41	13.37	50.78	74.00	-23.22	Vertical
2	2359.4449	36.91	13.52	50.43	74.00	-23.57	Vertical
3	2390.0000	35.39	13.72	49.11	74.00	-24.89	Vertical

- Note: 1. Peak result: Peak detector, RBW: 1 MHz, VBW: 3 MHz.  
2. Average result: Peak detector, RBW: 1 MHz, VBW: 1/T MHz (refer to clause 7.1.).  
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 1M	HCH	Horizontal	PASS

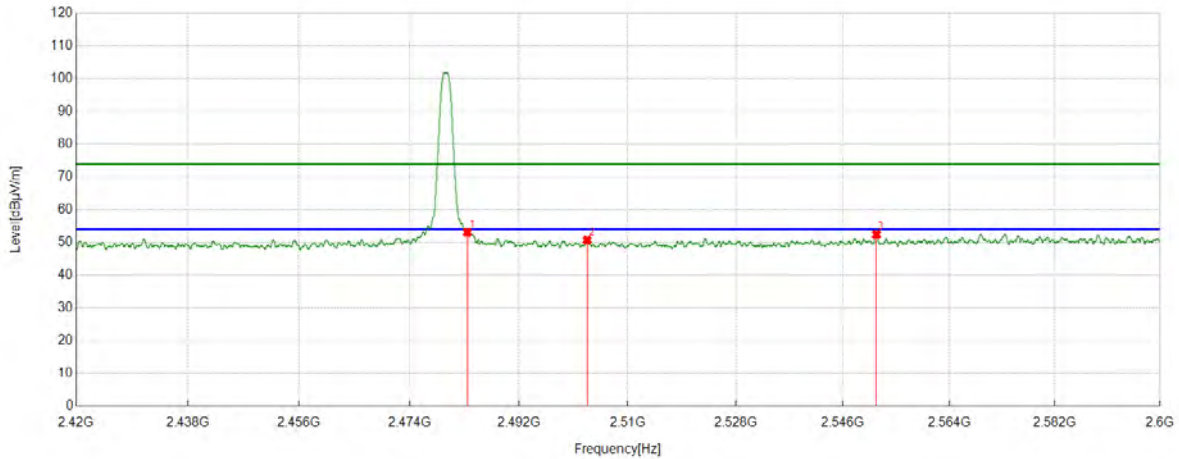


PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	2483.5000	38.18	14.12	52.30	74.00	-21.70	Horizontal
2	2512.0365	37.02	14.43	51.45	74.00	-22.55	Horizontal
3	2555.2869	37.26	14.69	51.95	74.00	-22.05	Horizontal

- Note: 1. Peak result: Peak detector, RBW: 1 MHz, VBW: 3 MHz.  
2. Average result: Peak detector, RBW: 1 MHz, VBW: 1/T MHz (refer to clause 7.1.).  
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 1M	HCH	Vertical	PASS

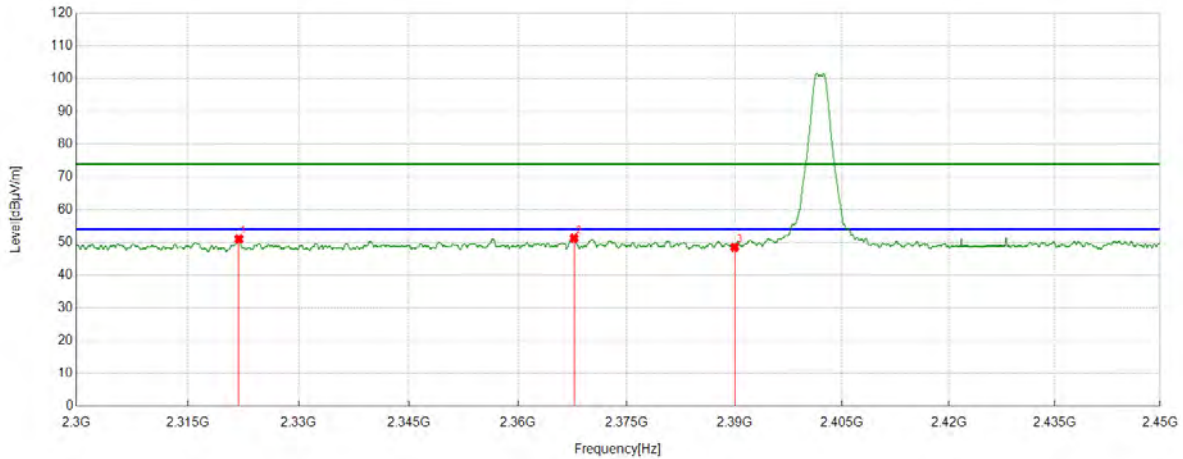


PK Result:

No.	Frequency [MHz]	Reading Level [dBuV/m]	Correct Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
1	2483.5000	38.97	14.12	53.09	74.00	-20.91	Vertical
2	2503.2604	36.47	14.26	50.73	74.00	-23.27	Vertical
3	2551.6640	37.72	14.72	52.44	74.00	-21.56	Vertical

- Note: 1. Peak result: Peak detector, RBW: 1 MHz, VBW: 3 MHz.  
2. Average result: Peak detector, RBW: 1 MHz, VBW: 1/T MHz (refer to clause 7.1.).  
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	LCH	Horizontal	PASS

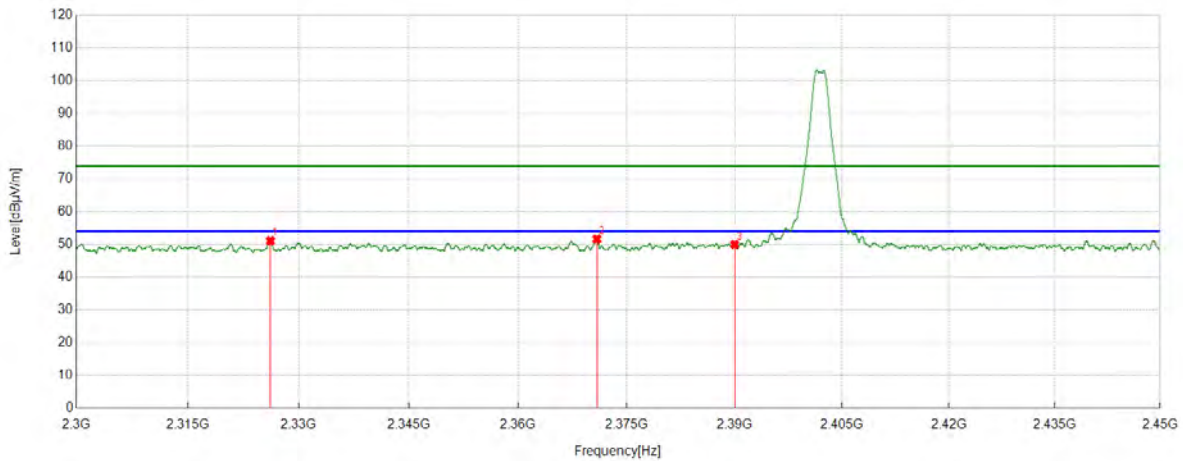


PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	2321.9215	37.72	13.41	51.13	74.00	-22.87	Horizontal
2	2367.7335	37.71	13.64	51.35	74.00	-22.65	Horizontal
3	2390.0000	34.82	13.72	48.54	74.00	-25.46	Horizontal

- Note: 1. Peak result: Peak detector, RBW: 1 MHz, VBW: 3 MHz.  
2. Average result: Peak detector, RBW: 1 MHz, VBW: 1/T MHz (refer to clause 7.1.).  
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	LCH	Vertical	PASS



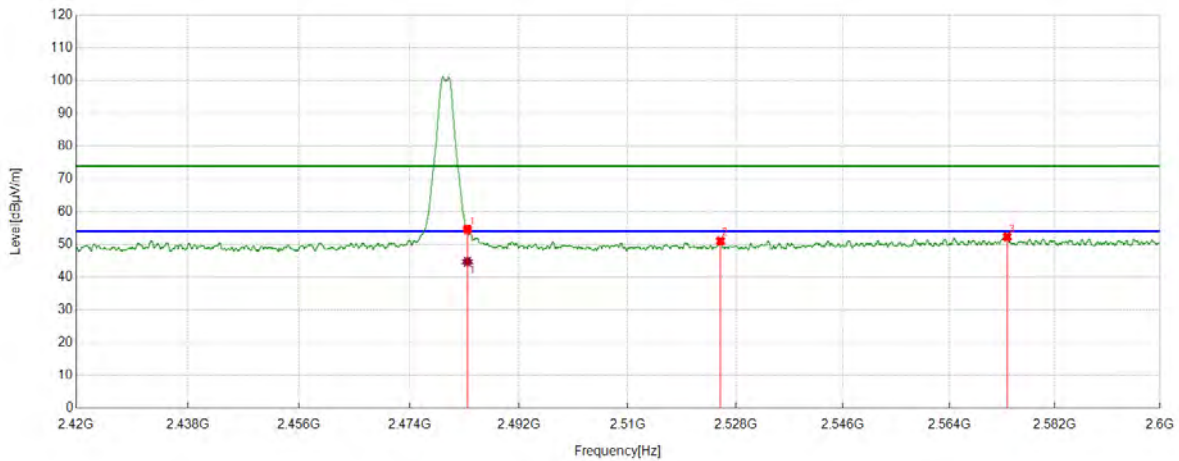
PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	2326.1970	37.79	13.39	51.18	74.00	-22.82	Vertical
2	2370.8839	37.97	13.68	51.65	74.00	-22.35	Vertical
3	2390.0000	36.27	13.72	49.99	74.00	-24.01	Vertical

- Note: 1. Peak result: Peak detector, RBW: 1 MHz, VBW: 3 MHz.  
2. Average result: Peak detector, RBW: 1 MHz, VBW: 1/T MHz (refer to clause 7.1.).  
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	HCH	Horizontal	PASS



#### PK Result:

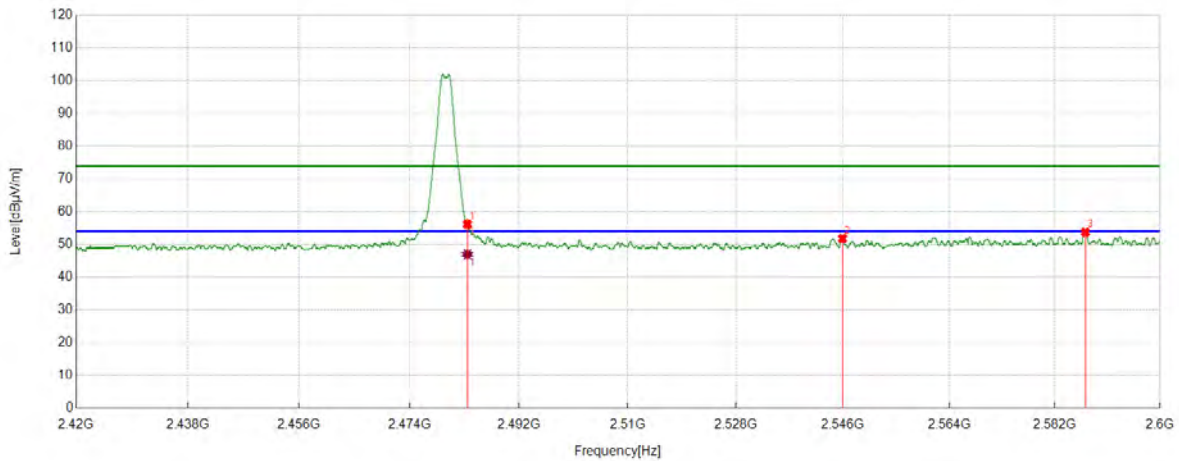
No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	2483.5000	40.51	14.12	54.63	74.00	-19.37	Horizontal
2	2525.4482	36.64	14.49	51.13	74.00	-22.87	Horizontal
3	2573.8292	37.36	14.96	52.32	74.00	-21.68	Horizontal

#### AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	2483.5000	30.64	14.12	44.76	54.00	-9.24	Horizontal

- Note: 1. Peak result: Peak detector, RBW: 1 MHz, VBW: 3 MHz.  
2. Average result: Peak detector, RBW: 1 MHz, VBW: 1/T MHz (refer to clause 7.1.).  
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	HCH	Vertical	PASS



#### PK Result:

No.	Frequency [MHz]	Reading Level [dBuV/m]	Correct Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
1	2483.5000	41.96	14.12	56.08	74.00	-17.92	Vertical
2	2545.9257	37.16	14.69	51.85	74.00	-22.15	Vertical
3	2587.1959	38.58	15.14	53.72	74.00	-20.28	Vertical

#### AV Result:

No.	Frequency [MHz]	Reading Level [dBuV/m]	Correct Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
1	2483.5000	32.82	14.12	46.94	54.00	-7.06	Vertical

- Note: 1. Peak result: Peak detector, RBW: 1 MHz, VBW: 3 MHz.  
2. Average result: Peak detector, RBW: 1 MHz, VBW: 1/T MHz (refer to clause 7.1.).  
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.

## 8.4. SPURIOUS EMISSIONS

### TEST RESULTS TABLE

#### 1) For 1GHz~18GHz

Test Mode	Channel	Puw(dBm)	Verdict
BLE 1M	LCH	<Limit	PASS
	MCH	<Limit	PASS
	HCH	<Limit	PASS
BLE 2M	LCH	<Limit	PASS
	MCH	<Limit	PASS
	HCH	<Limit	PASS

Note:

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

#### 2) For 9kHz~30MHz

Test Mode	Channel	Puw(dBm)	Verdict
BLE 1M	MCH	<Limit	PASS

Note:

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

#### 3) For 30MHz~1GHz

Test Mode	Channel	Puw(dBm)	Verdict
BLE 1M	MCH	<Limit	PASS

Note:

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

#### 4) For 18GHz~26.5GHz

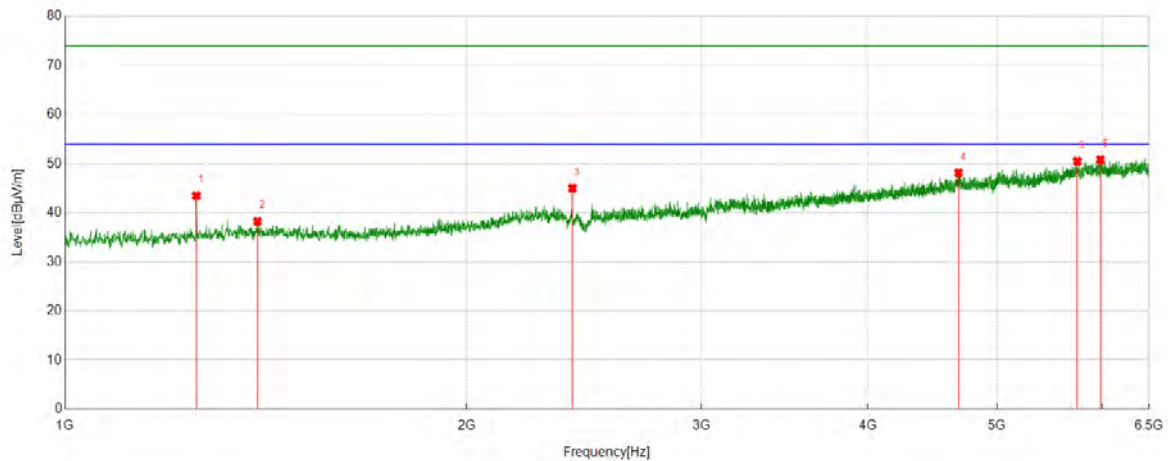
Test Mode	Channel	Puw(dBm)	Verdict
BLE 1M	MCH	<Limit	PASS

Note:

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

**Part 1: 1GHz~6.5GHz**
**HARMONICS AND SPURIOUS EMISSIONS**

Test Mode	Channel	Polarization	Verdict
BLE 1M	LCH	Horizontal	PASS


**PK Result:**

No.	Frequency [MHz]	Reading Level [dBuV/m]	Correct Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
1	1254.4068	44.32	-0.85	43.47	74.00	-30.53	Horizontal
2	1393.9867	38.65	-0.42	38.23	74.00	-35.77	Horizontal
3	2401.3002	41.36	3.66	45.02	74.00	-28.98	Horizontal
4	4677.8972	35.80	12.34	48.14	74.00	-25.86	Horizontal
5	5742.2803	34.95	15.56	50.51	74.00	-23.49	Horizontal
6	5976.7471	34.79	15.99	50.78	74.00	-23.22	Horizontal

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

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

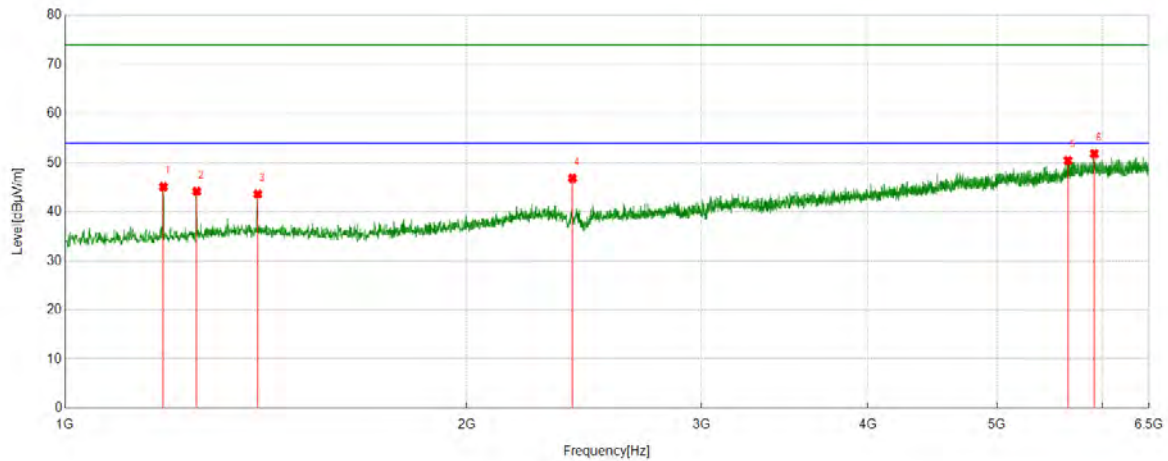
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Peak: Peak detector.

5. 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.

Test Mode	Channel	Polarization	Verdict
BLE 1M	LCH	Vertical	PASS

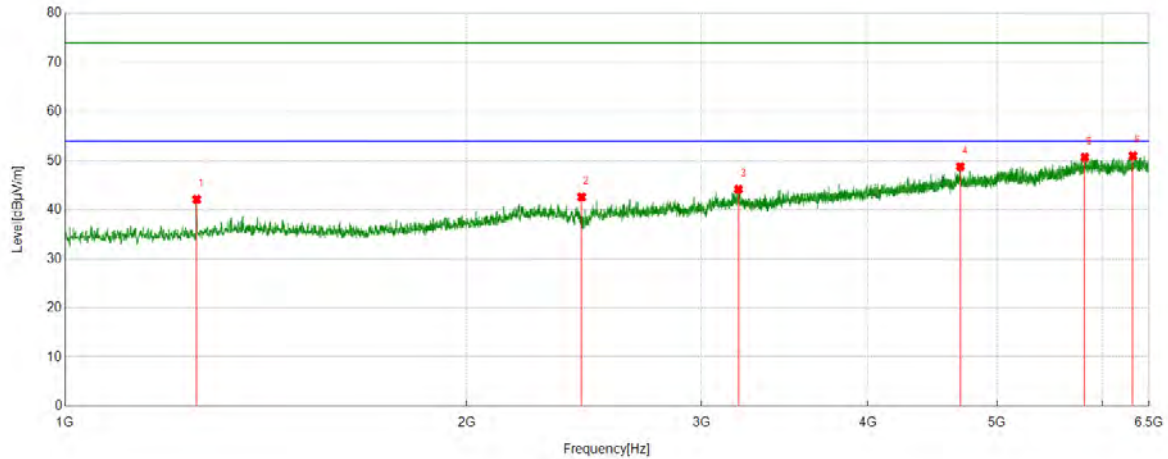


#### PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	1184.9606	46.29	-1.19	45.10	74.00	-28.90	Vertical
2	1255.0944	45.01	-0.86	44.15	74.00	-29.85	Vertical
3	1394.6743	44.03	-0.43	43.60	74.00	-30.40	Vertical
4	2401.3002	43.13	3.66	46.79	74.00	-27.21	Vertical
5	5651.5189	35.78	14.67	50.45	74.00	-23.55	Vertical
6	5913.4892	35.84	15.96	51.80	74.00	-22.20	Vertical

- 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. 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.

Test Mode	Channel	Polarization	Verdict
BLE 1M	MCH	Horizontal	PASS



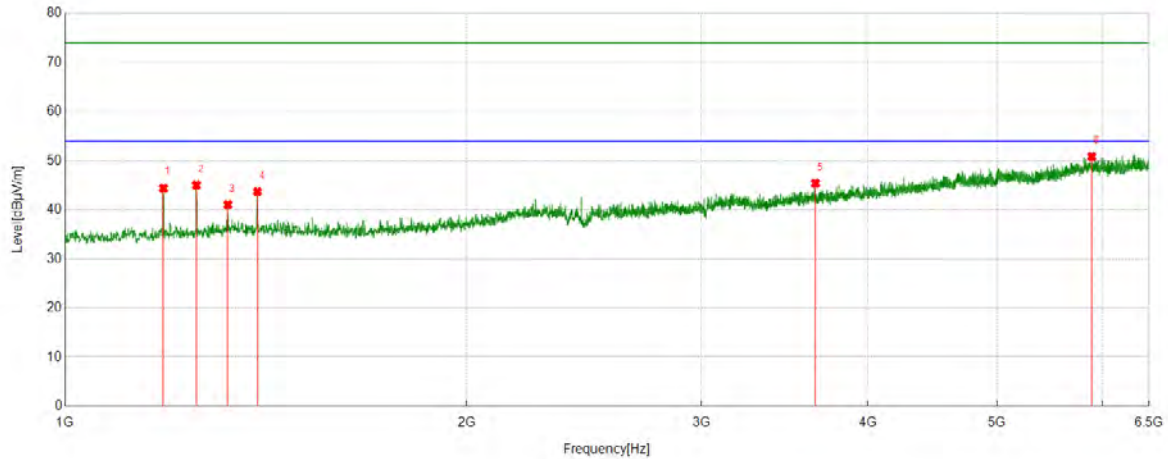
PK Result:

No.	Frequency [MHz]	Reading Level [dBuV/m]	Correct Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
1	1255.0944	42.96	-0.86	42.10	74.00	-31.90	Horizontal
2	2439.8050	38.83	3.75	42.58	74.00	-31.42	Horizontal
3	3198.8999	37.27	6.90	44.17	74.00	-29.83	Horizontal
4	4692.3365	35.90	12.88	48.78	74.00	-25.22	Horizontal
5	5817.9147	34.22	16.47	50.69	74.00	-23.31	Horizontal
6	6321.9152	33.87	17.13	51.00	74.00	-23.00	Horizontal

- 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. 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.



Test Mode	Channel	Polarization	Verdict
BLE 1M	MCH	Vertical	PASS

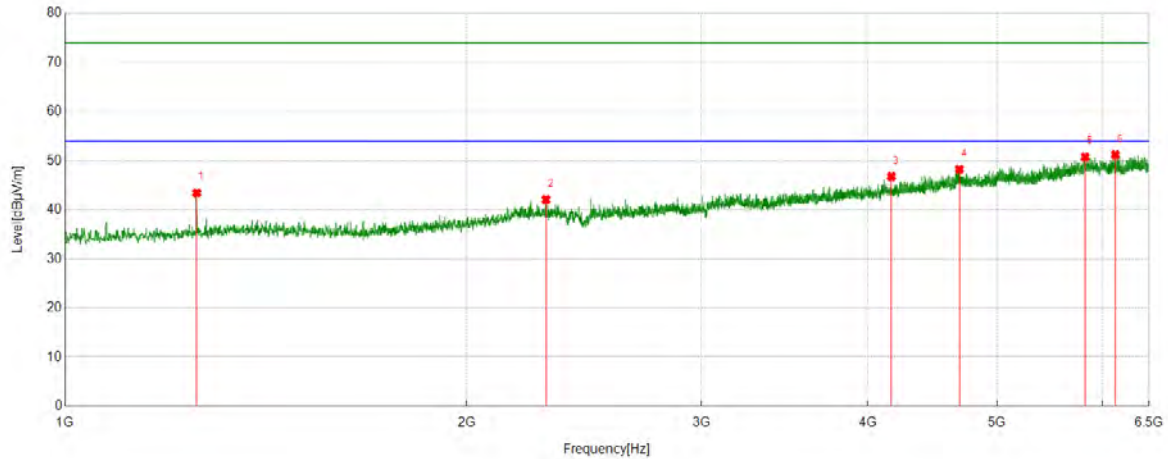


PK Result:

No.	Frequency [MHz]	Reading Level [dBuV/m]	Correct Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
1	1184.9606	45.59	-1.19	44.40	74.00	-29.60	Vertical
2	1254.4068	45.88	-0.85	45.03	74.00	-28.97	Vertical
3	1324.5406	41.25	-0.22	41.03	74.00	-32.97	Vertical
4	1393.9867	44.11	-0.42	43.69	74.00	-30.31	Vertical
5	3654.0818	37.20	8.20	45.40	74.00	-28.60	Vertical
6	5888.0485	35.25	15.57	50.82	74.00	-23.18	Vertical

- 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. 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.

Test Mode	Channel	Polarization	Verdict
BLE 1M	HCH	Horizontal	PASS

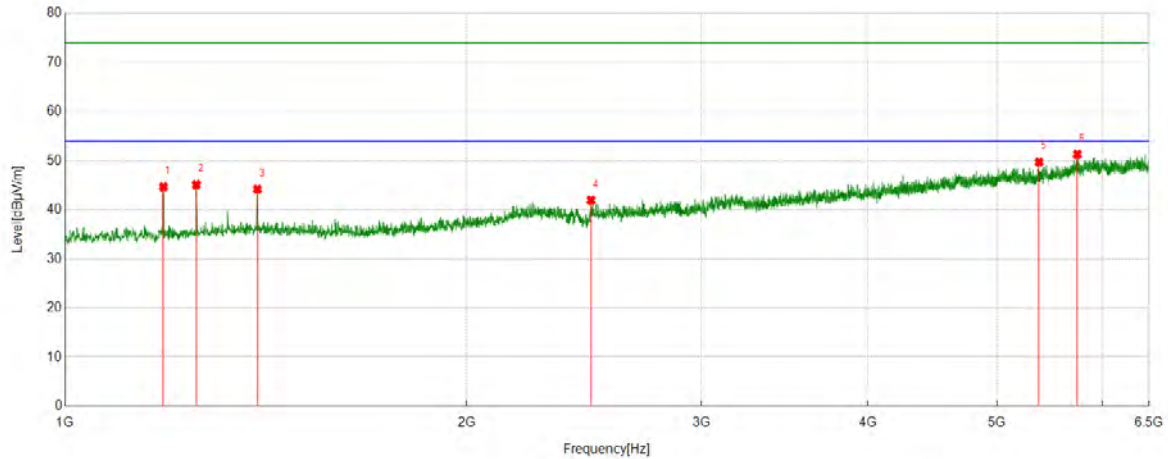


PK Result:

No.	Frequency [MHz]	Reading Level [dBuV/m]	Correct Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
1	1255.0944	44.27	-0.86	43.41	74.00	-30.59	Horizontal
2	2294.0368	38.36	3.69	42.05	74.00	-31.95	Horizontal
3	4165.6457	37.16	9.60	46.76	74.00	-27.24	Horizontal
4	4684.7731	35.54	12.70	48.24	74.00	-25.76	Horizontal
5	5821.3527	34.16	16.58	50.74	74.00	-23.26	Horizontal
6	6133.5167	35.28	15.91	51.19	74.00	-22.81	Horizontal

- 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. 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.

Test Mode	Channel	Polarization	Verdict
BLE 1M	HCH	Vertical	PASS

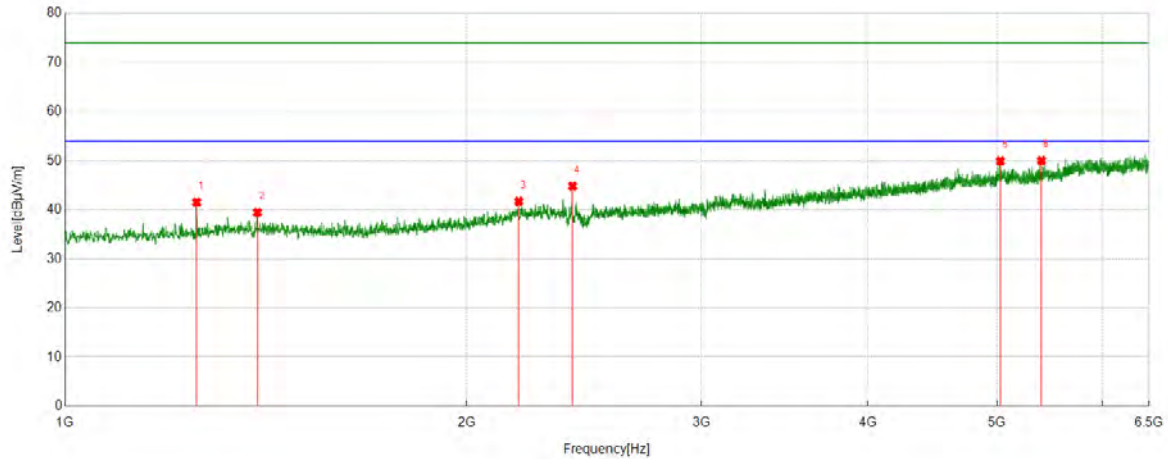


PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	1184.9606	45.87	-1.19	44.68	74.00	-29.32	Vertical
2	1254.4068	45.95	-0.85	45.10	74.00	-28.90	Vertical
3	1393.9867	44.60	-0.42	44.18	74.00	-29.82	Vertical
4	2479.6850	38.00	3.91	41.91	74.00	-32.09	Vertical
5	5376.4846	36.18	13.52	49.70	74.00	-24.30	Vertical
6	5742.9679	35.72	15.55	51.27	74.00	-22.73	Vertical

- 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. 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.

Test Mode	Channel	Polarization	Verdict
BLE 2M	LCH	Horizontal	PASS

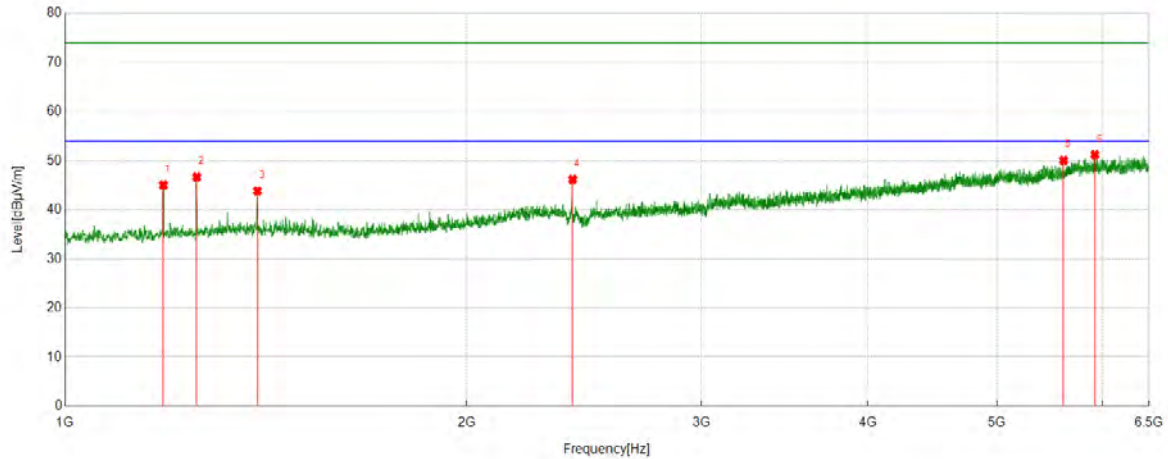


PK Result:

No.	Frequency [MHz]	Reading Level [dBuV/m]	Correct Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
1	1255.0944	42.37	-0.86	41.51	74.00	-32.49	Horizontal
2	1393.9867	39.89	-0.42	39.47	74.00	-34.53	Horizontal
3	2188.8361	38.07	3.63	41.70	74.00	-32.30	Horizontal
4	2401.9877	41.15	3.66	44.81	74.00	-29.19	Horizontal
5	5027.8785	36.99	12.96	49.95	74.00	-24.05	Horizontal
6	5398.4873	36.09	13.95	50.04	74.00	-23.96	Horizontal

- 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. 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.

Test Mode	Channel	Polarization	Verdict
BLE 2M	LCH	Vertical	PASS

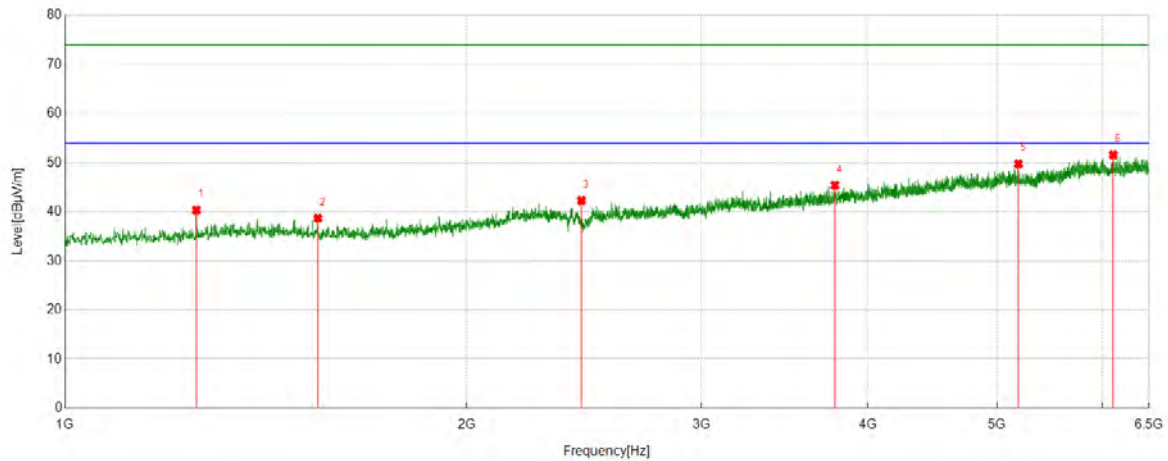


#### PK Result:

No.	Frequency [MHz]	Reading Level [dBuV/m]	Correct Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
1	1184.9606	46.24	-1.19	45.05	74.00	-28.95	Vertical
2	1255.0944	47.52	-0.86	46.66	74.00	-27.34	Vertical
3	1393.9867	44.24	-0.42	43.82	74.00	-30.18	Vertical
4	2401.9877	42.51	3.66	46.17	74.00	-27.83	Vertical
5	5608.2010	35.45	14.61	50.06	74.00	-23.94	Vertical
6	5919.6775	34.93	16.27	51.20	74.00	-22.80	Vertical

- 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. 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.

Test Mode	Channel	Polarization	Verdict
BLE 2M	MCH	Horizontal	PASS



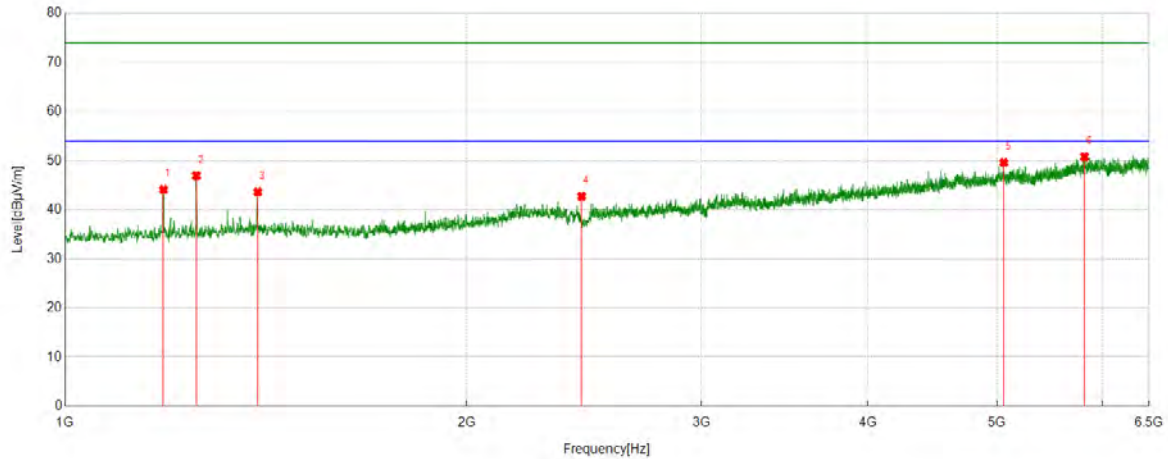
#### PK Result:

No.	Frequency [MHz]	Reading Level [dBuV/m]	Correct Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
1	1254.4068	41.17	-0.85	40.32	74.00	-33.68	Horizontal
2	1547.3184	39.27	-0.58	38.69	74.00	-35.31	Horizontal
3	2439.1174	38.51	3.75	42.26	74.00	-31.74	Horizontal
4	3779.2224	36.82	8.58	45.40	74.00	-28.60	Horizontal
5	5187.3984	36.72	13.02	49.74	74.00	-24.26	Horizontal
6	6110.1388	36.11	15.49	51.60	74.00	-22.40	Horizontal

- 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. 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.



Test Mode	Channel	Polarization	Verdict
BLE 2M	MCH	Vertical	PASS

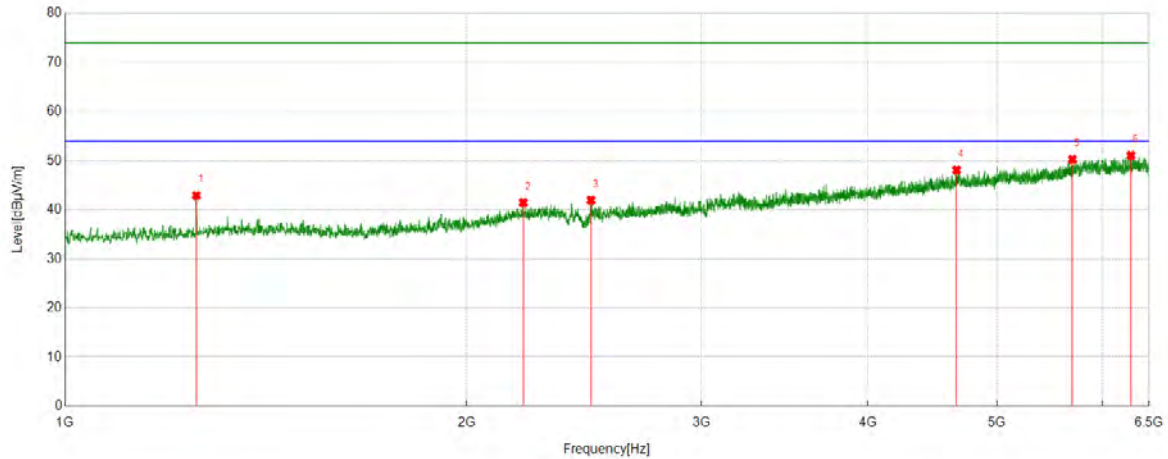


PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	1184.9606	45.29	-1.19	44.10	74.00	-29.90	Vertical
2	1254.4068	47.77	-0.85	46.92	74.00	-27.08	Vertical
3	1394.6743	44.05	-0.43	43.62	74.00	-30.38	Vertical
4	2439.8050	38.98	3.75	42.73	74.00	-31.27	Vertical
5	5058.8199	36.34	13.26	49.60	74.00	-24.40	Vertical
6	5815.1644	34.47	16.32	50.79	74.00	-23.21	Vertical

- 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. 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.

Test Mode	Channel	Polarization	Verdict
BLE 2M	HCH	Horizontal	PASS

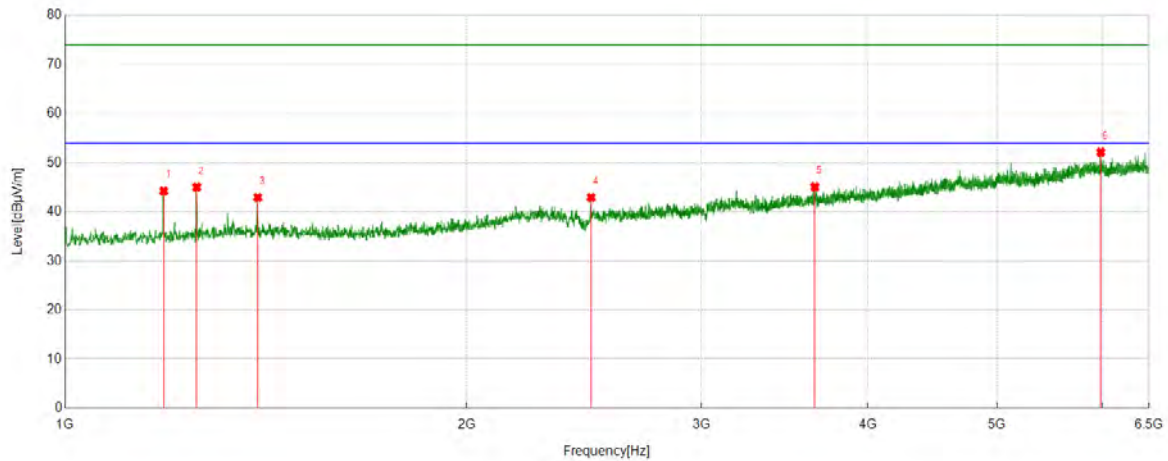


PK Result:

No.	Frequency [MHz]	Reading Level [dBuV/m]	Correct Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
1	1254.4068	43.75	-0.85	42.90	74.00	-31.10	Horizontal
2	2206.0258	37.66	3.78	41.44	74.00	-32.56	Horizontal
3	2479.6850	38.00	3.91	41.91	74.00	-32.09	Horizontal
4	4662.7703	35.96	12.11	48.07	74.00	-25.93	Horizontal
5	5694.1493	35.37	14.88	50.25	74.00	-23.75	Horizontal
6	6299.9125	34.19	16.88	51.07	74.00	-22.93	Horizontal

- 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. 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.

Test Mode	Channel	Polarization	Verdict
BLE 2M	HCH	Vertical	PASS



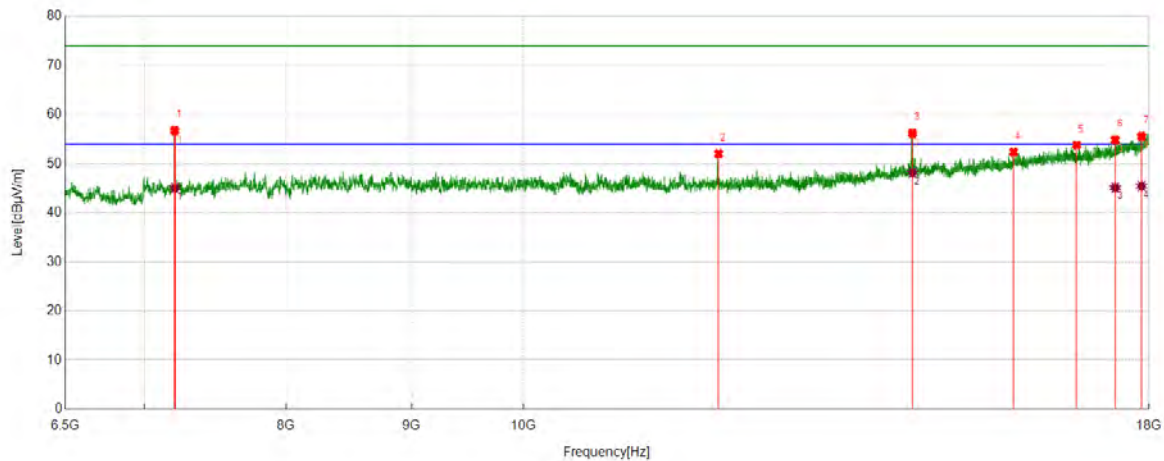
#### PK Result:

No.	Frequency [MHz]	Reading Level [dBuV/m]	Correct Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
1	1185.6482	45.44	-1.21	44.23	74.00	-29.77	Vertical
2	1255.0944	45.90	-0.86	45.04	74.00	-28.96	Vertical
3	1394.6743	43.33	-0.43	42.90	74.00	-31.10	Vertical
4	2480.3725	38.99	3.91	42.90	74.00	-31.10	Vertical
5	3649.9562	36.75	8.34	45.09	74.00	-28.91	Vertical
6	5980.1850	35.91	16.21	52.12	74.00	-21.88	Vertical

- 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. 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.

**Part 2: 6.5GHz~18GHz**
**HARMONICS AND SPURIOUS EMISSIONS**

Test Mode	Channel	Polarization	Verdict
BLE 1M	LCH	Horizontal	PASS


**PK Result:**

No.	Frequency [MHz]	Reading Level [dBuV/m]	Correct Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
1	7204.4631	52.62	4.13	56.75	74.00	-17.25	Horizontal
2	12012.0640	44.06	7.95	52.01	74.00	-21.99	Horizontal
3	14411.5514	43.22	13.00	56.22	74.00	-17.78	Horizontal
4	15847.7935	37.36	14.98	52.34	74.00	-21.66	Horizontal
5	16816.7896	36.99	16.79	53.78	74.00	-20.22	Horizontal
6	17437.8672	36.55	18.29	54.84	74.00	-19.16	Horizontal
7	17874.9219	35.74	19.82	55.56	74.00	-18.44	Horizontal

**AV Result:**

No.	Frequency [MHz]	Reading Level [dBuV/m]	Correct Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
1	7204.4631	40.94	4.13	45.07	54.00	-8.93	Horizontal
2	14411.5514	35.08	13.00	48.08	54.00	-5.92	Horizontal
3	17437.8672	26.82	18.29	45.11	54.00	-8.89	Horizontal
4	17874.9219	25.62	19.82	45.44	54.00	-8.56	Horizontal

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

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

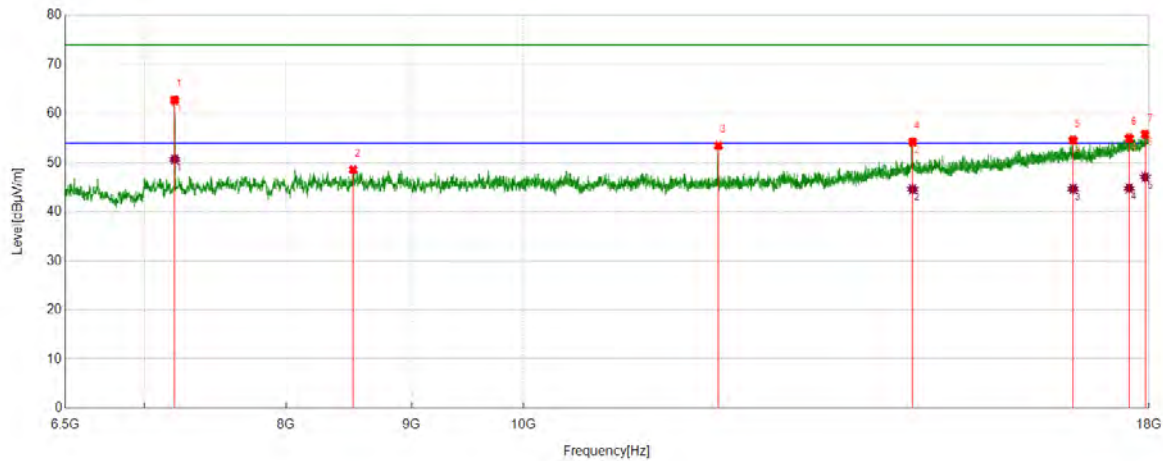
3. Peak result: Peak detector, RBW: 1 MHz, VBW: 3 MHz.

4. Average result: Peak detector, RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.).

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.

Test Mode	Channel	Polarization	Verdict
BLE 1M	LCH	Vertical	PASS



#### PK Result:

No.	Frequency [MHz]	Reading Level [dBuV/m]	Correct Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
1	7204.4631	58.60	4.13	62.73	74.00	-11.27	Vertical
2	8519.9400	41.77	6.80	48.57	74.00	-25.43	Vertical
3	12010.6263	45.51	7.94	53.45	74.00	-20.55	Vertical
4	14414.4268	41.19	13.02	54.21	74.00	-19.79	Vertical
5	16760.7201	37.92	16.66	54.58	74.00	-19.42	Vertical
6	17667.8960	36.08	18.91	54.99	74.00	-19.01	Vertical
7	17935.3044	35.51	20.26	55.77	74.00	-18.23	Vertical

#### AV Result:

No.	Frequency [MHz]	Reading Level [dBuV/m]	Correct Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
1	7204.4631	46.56	4.13	50.69	54.00	-3.31	Vertical
2	14414.4268	31.60	13.02	44.62	54.00	-9.38	Vertical
3	16760.7201	28.03	16.66	44.69	54.00	-9.31	Vertical
4	17667.8960	25.88	18.91	44.79	54.00	-9.21	Vertical
5	17935.3044	26.80	20.26	47.06	54.00	-6.94	Vertical

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

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

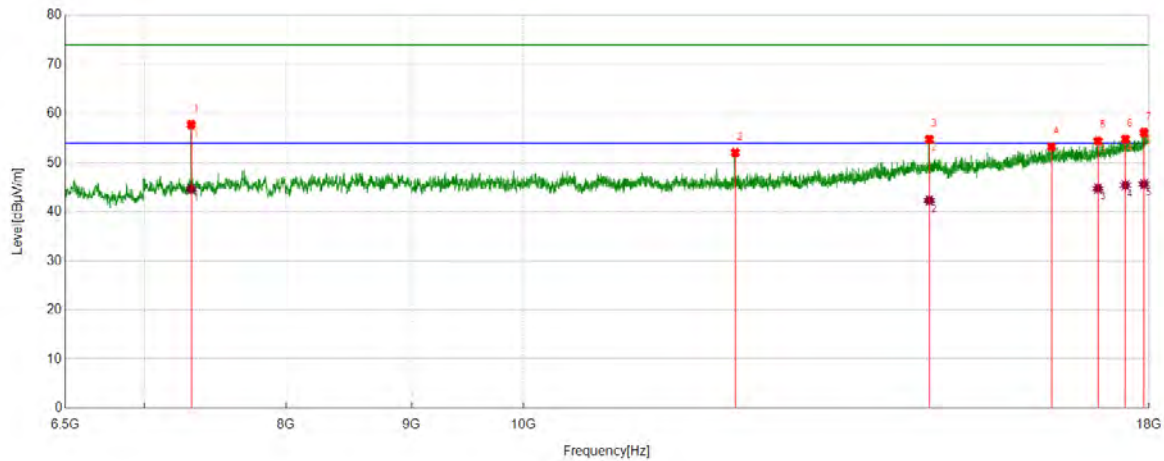
3. Peak result: Peak detector, RBW: 1 MHz, VBW: 3 MHz.

4. Average result: Peak detector, RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.).

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.

Test Mode	Channel	Polarization	Verdict
BLE 1M	MCH	Horizontal	PASS



#### PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	7318.0398	53.73	3.98	57.71	74.00	-16.29	Horizontal
2	12201.8377	43.50	8.54	52.04	74.00	-21.96	Horizontal
3	14641.5802	42.16	12.60	54.76	74.00	-19.24	Horizontal
4	16424.3030	37.32	15.91	53.23	74.00	-20.77	Horizontal
5	17157.5197	37.22	17.18	54.40	74.00	-19.60	Horizontal
6	17606.0758	35.96	18.84	54.80	74.00	-19.20	Horizontal
7	17916.6146	36.11	20.04	56.15	74.00	-17.85	Horizontal

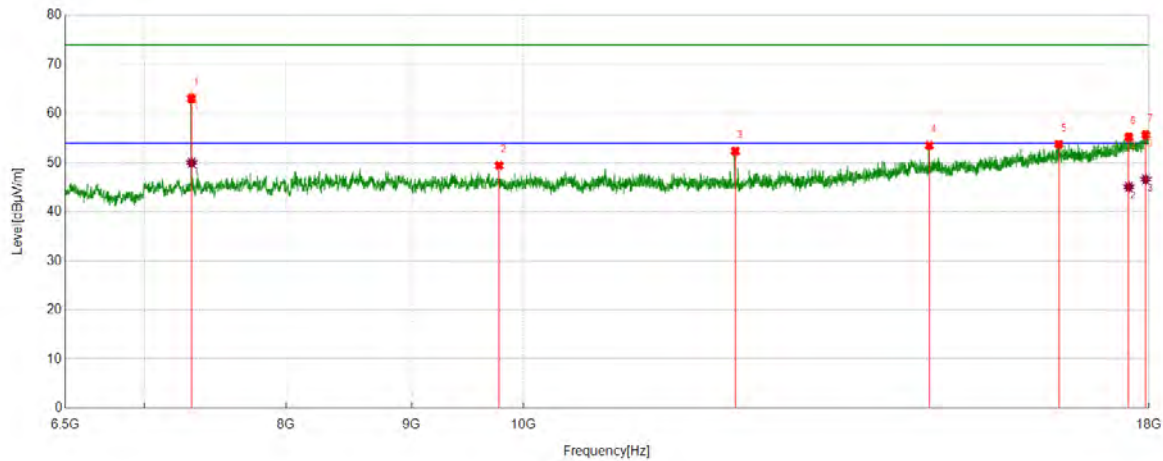
#### AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	7318.0398	40.63	3.98	44.61	54.00	-9.39	Horizontal
2	14641.5802	29.69	12.60	42.29	54.00	-11.71	Horizontal
3	17157.5197	27.58	17.18	44.76	54.00	-9.24	Horizontal
4	17606.0758	26.58	18.84	45.42	54.00	-8.58	Horizontal
5	17916.6146	25.58	20.04	45.62	54.00	-8.38	Horizontal

- Note: 1. Measurement = Reading Level + Correct Factor.  
2. If peak result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak result: Peak detector, RBW: 1 MHz, VBW: 3 MHz.  
4. Average result: Peak detector, RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.).  
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.



Test Mode	Channel	Polarization	Verdict
BLE 1M	MCH	Vertical	PASS



#### PK Result:

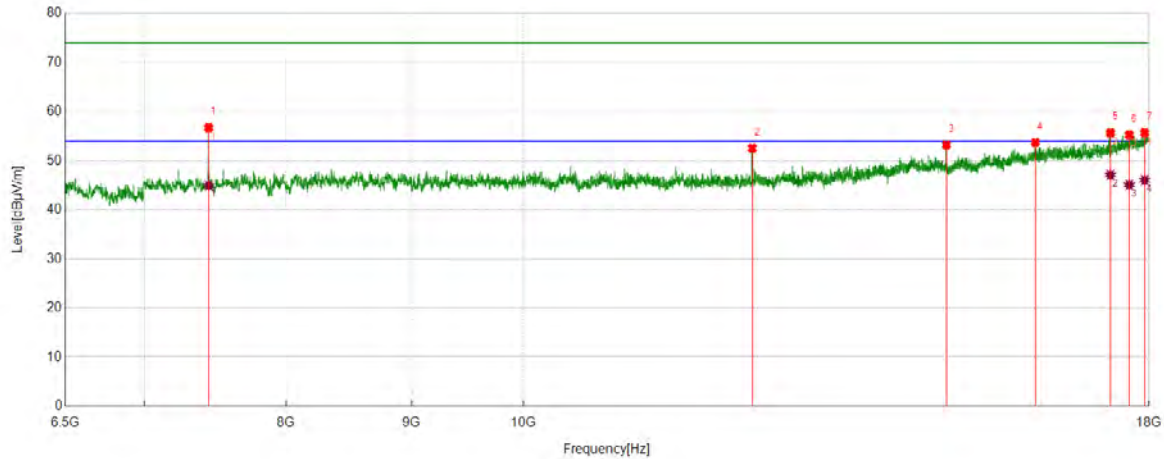
No.	Frequency [MHz]	Reading Level [dBuV/m]	Correct Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
1	7319.4774	59.06	3.97	63.03	74.00	-10.97	Vertical
2	9773.5967	42.93	6.49	49.42	74.00	-24.58	Vertical
3	12201.8377	43.76	8.54	52.30	74.00	-21.70	Vertical
4	14641.5802	40.88	12.60	53.48	74.00	-20.52	Vertical
5	16536.4421	37.26	16.49	53.75	74.00	-20.25	Vertical
6	17662.1453	36.34	18.88	55.22	74.00	-18.78	Vertical
7	17946.8059	35.26	20.41	55.67	74.00	-18.33	Vertical

#### AV Result:

No.	Frequency [MHz]	Reading Level [dBuV/m]	Correct Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
1	7319.4774	46.04	3.97	50.01	54.00	-3.99	Vertical
2	17662.1453	26.19	18.88	45.07	54.00	-8.93	Vertical
3	17946.8059	26.18	20.41	46.59	54.00	-7.41	Vertical

- Note: 1. Measurement = Reading Level + Correct Factor.  
2. If peak result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak result: Peak detector, RBW: 1 MHz, VBW: 3 MHz.  
4. Average result: Peak detector, RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.).  
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.

Test Mode	Channel	Polarization	Verdict
BLE 1M	HCH	Horizontal	PASS



#### PK Result:

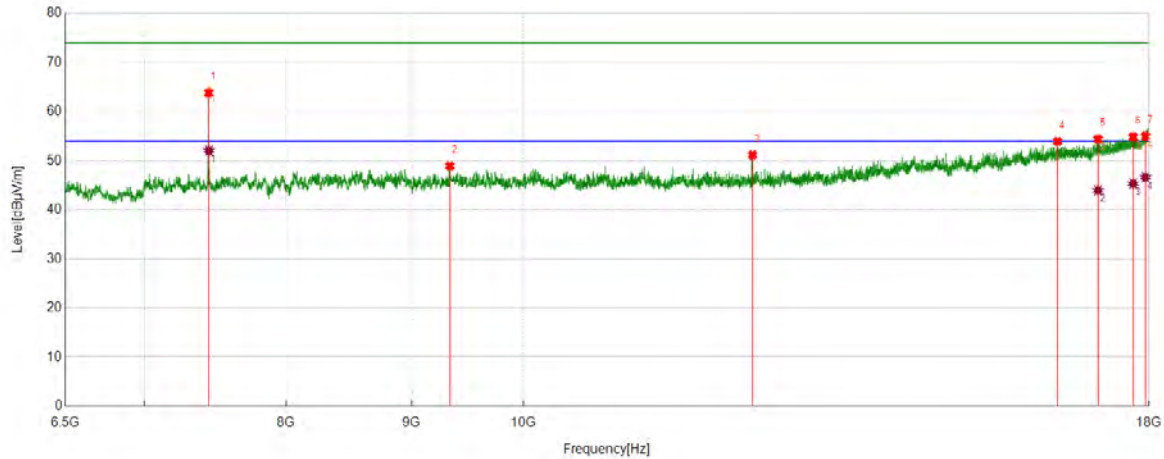
No.	Frequency [MHz]	Reading Level [dBuV/m]	Correct Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
1	7438.8049	52.49	4.21	56.70	74.00	-17.30	Horizontal
2	12398.7998	44.31	8.21	52.52	74.00	-21.48	Horizontal
3	14878.7974	40.49	12.70	53.19	74.00	-20.81	Horizontal
4	16175.5844	38.17	15.55	53.72	74.00	-20.28	Horizontal
5	17358.7948	37.68	17.99	55.67	74.00	-18.33	Horizontal
6	17669.3337	36.32	18.92	55.24	74.00	-18.76	Horizontal
7	17926.6783	35.54	20.16	55.70	74.00	-18.30	Horizontal

#### AV Result:

No.	Frequency [MHz]	Reading Level [dBuV/m]	Correct Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
1	7438.8049	40.73	4.21	44.94	54.00	-9.06	Horizontal
2	17358.7948	29.09	17.99	47.08	54.00	-6.92	Horizontal
3	17669.3337	26.17	18.92	45.09	54.00	-8.91	Horizontal
4	17926.6783	25.86	20.16	46.02	54.00	-7.98	Horizontal

- Note: 1. Measurement = Reading Level + Correct Factor.  
2. If peak result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak result: Peak detector, RBW: 1 MHz, VBW: 3 MHz.  
4. Average result: Peak detector, RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.).  
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.

Test Mode	Channel	Polarization	Verdict
BLE 1M	HCH	Vertical	PASS



#### PK Result:

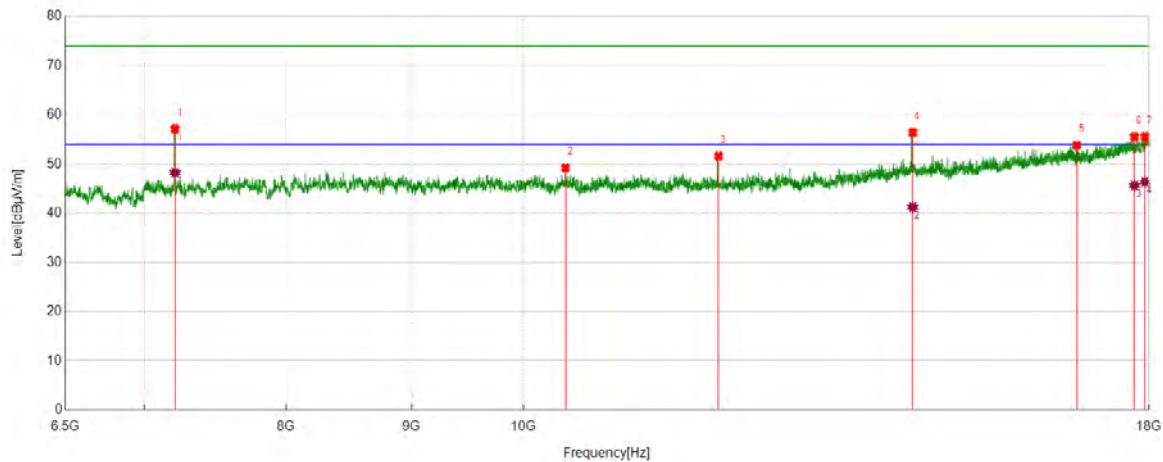
No.	Frequency [MHz]	Reading Level [dBuV/m]	Correct Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
1	7438.8049	59.55	4.21	63.76	74.00	-10.24	Vertical
2	9330.7913	42.58	6.32	48.90	74.00	-25.10	Vertical
3	12401.6752	42.96	8.20	51.16	74.00	-22.84	Vertical
4	16517.7522	37.25	16.67	53.92	74.00	-20.08	Vertical
5	17157.5197	37.20	17.18	54.38	74.00	-19.62	Vertical
6	17734.0293	35.31	19.54	54.85	74.00	-19.15	Vertical
7	17942.4928	34.65	20.35	55.00	74.00	-19.00	Vertical

#### AV Result:

No.	Frequency [MHz]	Reading Level [dBuV/m]	Correct Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
1	7438.8049	47.82	4.21	52.03	54.00	-1.97	Vertical
2	17157.5197	26.76	17.18	43.94	54.00	-10.06	Vertical
3	17734.0293	25.81	19.54	45.35	54.00	-8.65	Vertical
4	17942.4928	26.25	20.35	46.60	54.00	-7.40	Vertical

- Note: 1. Measurement = Reading Level + Correct Factor.  
2. If peak result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak result: Peak detector, RBW: 1 MHz, VBW: 3 MHz.  
4. Average result: Peak detector, RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.).  
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.

Test Mode	Channel	Polarization	Verdict
BLE 2M	LCH	Horizontal	PASS



#### PK Result:

No.	Frequency [MHz]	Reading Level [dBuV/m]	Correct Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
1	7207.3384	53.01	4.10	57.11	74.00	-16.89	Horizontal
2	10401.8627	42.39	6.81	49.20	74.00	-24.80	Horizontal
3	12012.0640	43.67	7.95	51.62	74.00	-22.38	Horizontal
4	14415.8645	43.37	13.02	56.39	74.00	-17.61	Horizontal
5	16818.2273	37.07	16.74	53.81	74.00	-20.19	Horizontal
6	17755.5944	36.01	19.52	55.53	74.00	-18.47	Horizontal
7	17929.5537	35.36	20.18	55.54	74.00	-18.46	Horizontal

#### AV Result:

No.	Frequency [MHz]	Reading Level [dBuV/m]	Correct Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
1	7207.3384	44.12	4.10	48.22	54.00	-5.78	Horizontal
2	14415.8645	28.20	13.02	41.22	54.00	-12.78	Horizontal
3	17755.5944	26.12	19.52	45.64	54.00	-8.36	Horizontal
4	17929.5537	26.17	20.18	46.35	54.00	-7.65	Horizontal

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

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

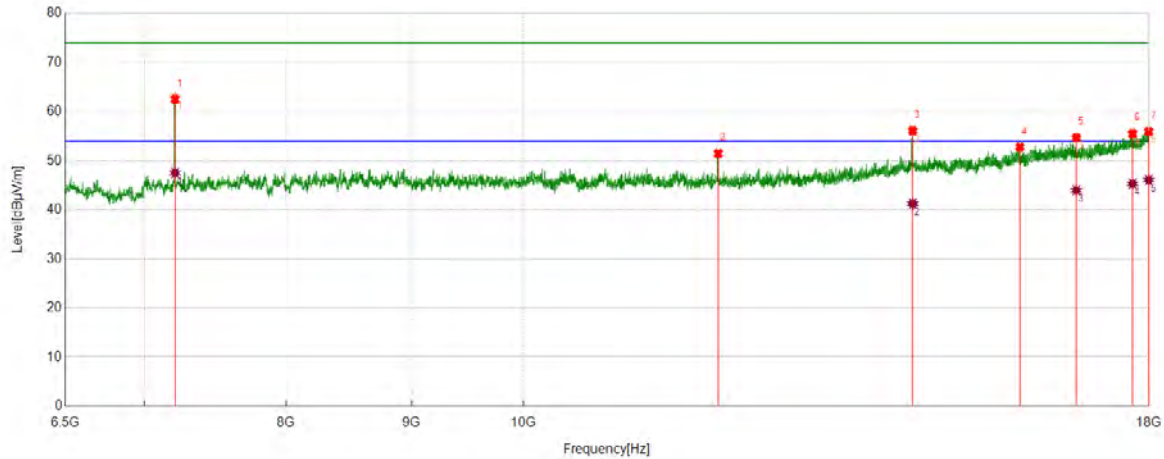
3. Peak result: Peak detector, RBW: 1 MHz, VBW: 3 MHz.

4. Average result: Peak detector, RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.).

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.

Test Mode	Channel	Polarization	Verdict
BLE 2M	LCH	Vertical	PASS



#### PK Result:

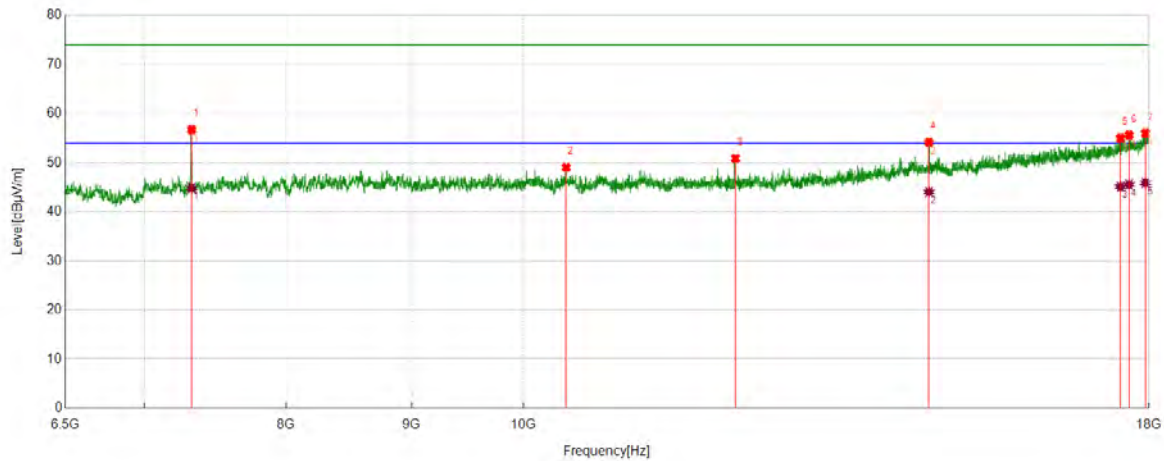
No.	Frequency [MHz]	Reading Level [dBuV/m]	Correct Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
1	7207.3384	58.38	4.10	62.48	74.00	-11.52	Vertical
2	12007.7510	43.46	7.98	51.44	74.00	-22.56	Vertical
3	14415.8645	43.09	13.02	56.11	74.00	-17.89	Vertical
4	15942.6803	37.92	14.82	52.74	74.00	-21.26	Vertical
5	16811.0389	37.73	16.95	54.68	74.00	-19.32	Vertical
6	17723.9655	36.01	19.50	55.51	74.00	-18.49	Vertical
7	17994.2493	35.34	20.59	55.93	74.00	-18.07	Vertical

#### AV Result:

No.	Frequency [MHz]	Reading Level [dBuV/m]	Correct Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
1	7207.3384	43.37	4.10	47.47	54.00	-6.53	Vertical
2	14415.8645	28.20	13.02	41.22	54.00	-12.78	Vertical
3	16811.0389	27.01	16.95	43.96	54.00	-10.04	Vertical
4	17723.9655	25.81	19.50	45.31	54.00	-8.69	Vertical
5	17994.2493	25.47	20.59	46.06	54.00	-7.94	Vertical

- Note: 1. Measurement = Reading Level + Correct Factor.  
2. If peak result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak result: Peak detector, RBW: 1 MHz, VBW: 3 MHz.  
4. Average result: Peak detector, RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.).  
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.

Test Mode	Channel	Polarization	Verdict
BLE 2M	MCH	Horizontal	PASS



#### PK Result:

No.	Frequency [MHz]	Reading Level [dBuV/m]	Correct Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
1	7320.9151	52.75	3.96	56.71	74.00	-17.29	Horizontal
2	10409.0511	42.28	6.75	49.03	74.00	-24.97	Horizontal
3	12203.2754	42.32	8.54	50.86	74.00	-23.14	Horizontal
4	14637.2672	41.52	12.61	54.13	74.00	-19.87	Horizontal
5	17524.1280	36.59	18.43	55.02	74.00	-18.98	Horizontal
6	17666.4583	36.73	18.90	55.63	74.00	-18.37	Horizontal
7	17939.6175	35.67	20.33	56.00	74.00	-18.00	Horizontal

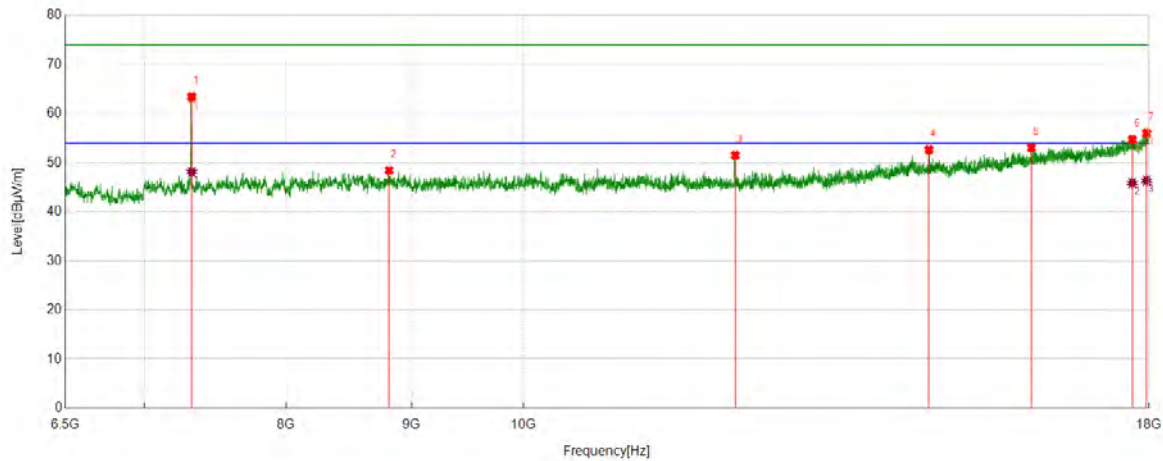
#### AV Result:

No.	Frequency [MHz]	Reading Level [dBuV/m]	Correct Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
1	7320.9151	40.88	3.96	44.84	54.00	-9.16	Horizontal
2	14637.2672	31.43	12.61	44.04	54.00	-9.96	Horizontal
3	17524.1280	26.69	18.43	45.12	54.00	-8.88	Horizontal
4	17666.4583	26.65	18.90	45.55	54.00	-8.45	Horizontal
5	17939.6175	25.54	20.33	45.87	54.00	-8.13	Horizontal

- Note: 1. Measurement = Reading Level + Correct Factor.  
2. If peak result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak result: Peak detector, RBW: 1 MHz, VBW: 3 MHz.  
4. Average result: Peak detector, RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.).  
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.



Test Mode	Channel	Polarization	Verdict
BLE 2M	MCH	Vertical	PASS



#### PK Result:

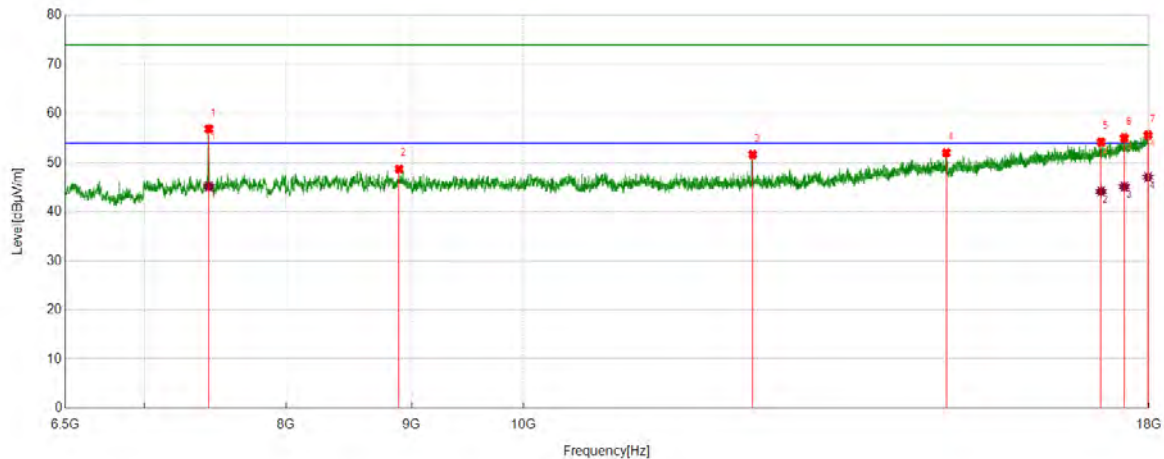
No.	Frequency [MHz]	Reading Level [dBuV/m]	Correct Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
1	7320.9151	59.44	3.96	63.40	74.00	-10.60	Vertical
2	8813.2267	42.05	6.36	48.41	74.00	-25.59	Vertical
3	12201.8377	42.97	8.54	51.51	74.00	-22.49	Vertical
4	14637.2672	40.02	12.61	52.63	74.00	-21.37	Vertical
5	16116.6396	37.63	15.38	53.01	74.00	-20.99	Vertical
6	17719.6525	35.24	19.48	54.72	74.00	-19.28	Vertical
7	17959.7450	35.46	20.55	56.01	74.00	-17.99	Vertical

#### AV Result:

No.	Frequency [MHz]	Reading Level [dBuV/m]	Correct Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
1	7320.9151	44.14	3.96	48.10	54.00	-5.90	Vertical
2	17719.6525	26.38	19.48	45.86	54.00	-8.14	Vertical
3	17959.7450	25.78	20.55	46.33	54.00	-7.67	Vertical

- Note: 1. Measurement = Reading Level + Correct Factor.  
2. If peak result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak result: Peak detector, RBW: 1 MHz, VBW: 3 MHz.  
4. Average result: Peak detector, RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.).  
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.

Test Mode	Channel	Polarization	Verdict
BLE 2M	HCH	Horizontal	PASS



#### PK Result:

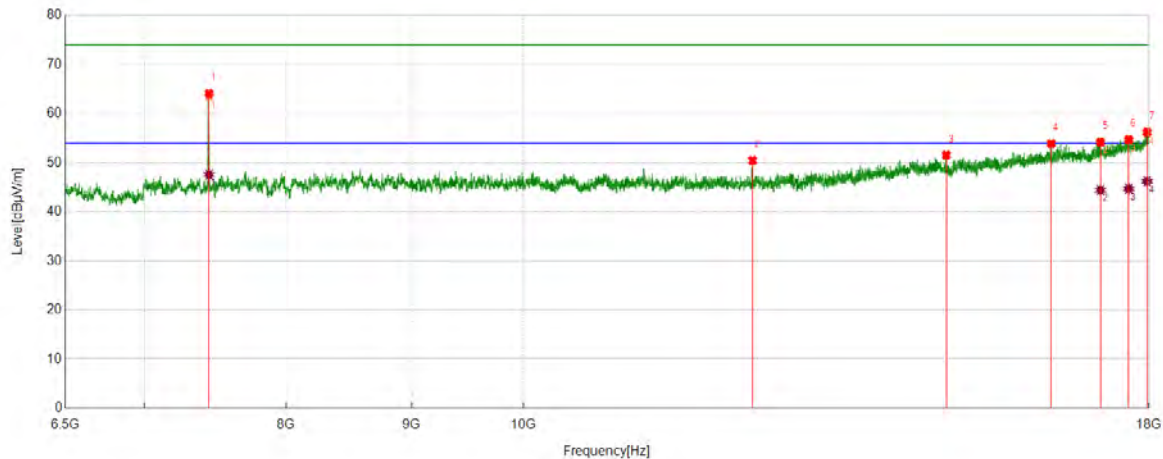
No.	Frequency [MHz]	Reading Level [dBuV/m]	Correct Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
1	7440.2425	52.66	4.20	56.86	74.00	-17.14	Horizontal
2	8896.6121	42.31	6.40	48.71	74.00	-25.29	Horizontal
3	12403.1129	43.44	8.22	51.66	74.00	-22.34	Horizontal
4	14877.3597	39.29	12.71	52.00	74.00	-22.00	Horizontal
5	17207.8385	36.68	17.52	54.20	74.00	-19.80	Horizontal
6	17585.9482	36.22	18.82	55.04	74.00	-18.96	Horizontal
7	17982.7478	34.97	20.66	55.63	74.00	-18.37	Horizontal

#### AV Result:

No.	Frequency [MHz]	Reading Level [dBuV/m]	Correct Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
1	7440.2425	40.96	4.20	45.16	54.00	-8.84	Horizontal
2	17207.8385	26.63	17.52	44.15	54.00	-9.85	Horizontal
3	17585.9482	26.29	18.82	45.11	54.00	-8.89	Horizontal
4	17982.7478	26.37	20.66	47.03	54.00	-6.97	Horizontal

- Note: 1. Measurement = Reading Level + Correct Factor.  
2. If peak result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak result: Peak detector, RBW: 1 MHz, VBW: 3 MHz.  
4. Average result: Peak detector, RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.).  
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.

Test Mode	Channel	Polarization	Verdict
BLE 2M	HCH	Vertical	PASS



#### PK Result:

No.	Frequency [MHz]	Reading Level [dBuV/m]	Correct Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
1	7441.6802	59.92	4.18	64.10	74.00	-9.90	Vertical
2	12401.6752	42.26	8.20	50.46	74.00	-23.54	Vertical
3	14877.3597	38.84	12.71	51.55	74.00	-22.45	Vertical
4	16419.9900	38.09	15.79	53.88	74.00	-20.12	Vertical
5	17197.7747	36.78	17.39	54.17	74.00	-19.83	Vertical
6	17660.7076	35.80	18.87	54.67	74.00	-19.33	Vertical
7	17968.3710	35.68	20.52	56.20	74.00	-17.80	Vertical

#### AV Result:

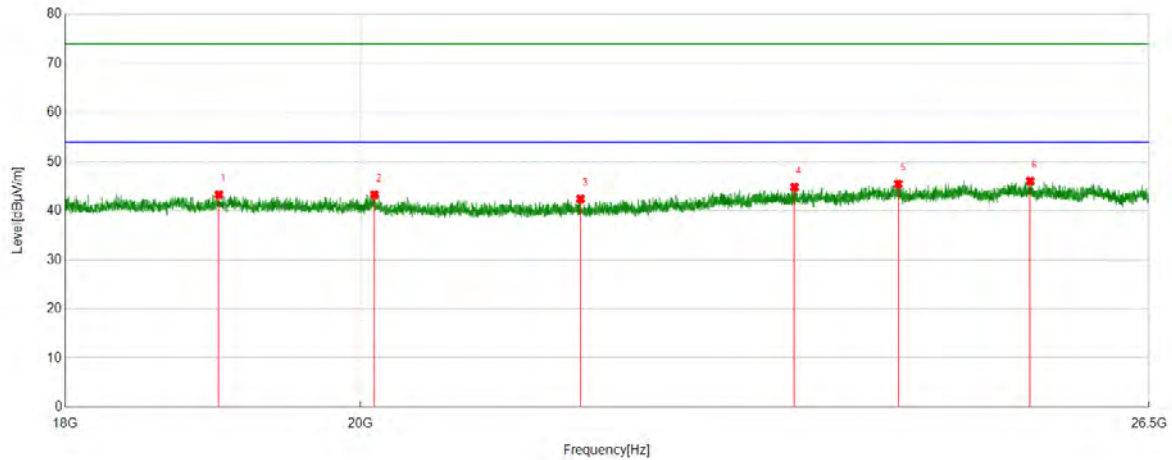
No.	Frequency [MHz]	Reading Level [dBuV/m]	Correct Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
1	7441.6802	43.35	4.18	47.53	54.00	-6.47	Vertical
2	17197.7747	27.04	17.39	44.43	54.00	-9.57	Vertical
3	17660.7076	25.83	18.87	44.70	54.00	-9.30	Vertical
4	17968.3710	25.68	20.52	46.20	54.00	-7.80	Vertical

- Note: 1. Measurement = Reading Level + Correct Factor.  
2. If peak result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak result: Peak detector, RBW: 1 MHz, VBW: 3 MHz.  
4. Average result: Peak detector, RBW: 1 MHz, VBW: 1/T MHz(refer to clause 7.1.).  
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.

### Part 3: 18GHz~26.5GHz

#### SPURIOUS EMISSIONS 18GHz ~ 26.5GHz (WORST-CASE CONFIGURATION)

Test Mode	Channel	Polarization	Verdict
BLE 1M	MCH	Horizontal	PASS

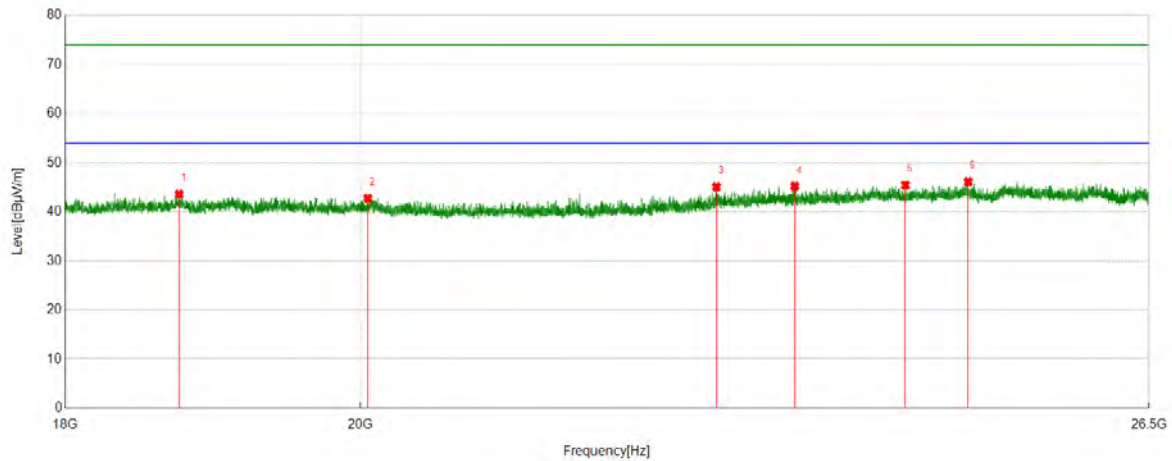


#### PK Result:

No.	Frequency [MHz]	Reading Level [dBuV/m]	Correct Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
1	19015.0015	49.33	-6.06	43.27	74.00	-30.73	Horizontal
2	20100.5601	48.44	-5.16	43.28	74.00	-30.72	Horizontal
3	21634.1134	48.15	-5.78	42.37	74.00	-31.63	Horizontal
4	23350.4350	48.08	-3.27	44.81	74.00	-29.19	Horizontal
5	24231.9732	48.29	-2.82	45.47	74.00	-28.53	Horizontal
6	25399.9900	49.29	-3.25	46.04	74.00	-27.96	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.  
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 1M	MCH	Vertical	PASS



PK Result:

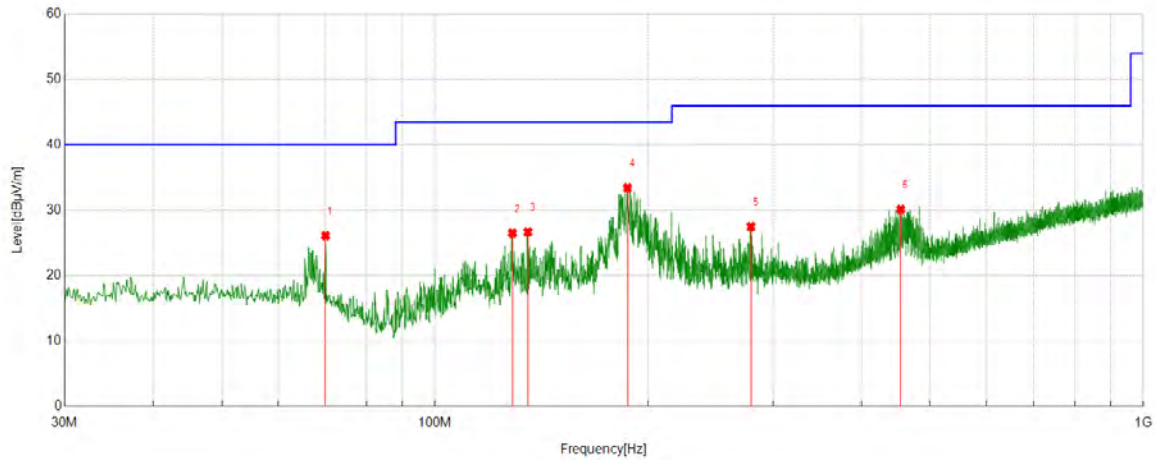
No.	Frequency [MHz]	Reading Level [dBuV/m]	Correct Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
1	18747.2247	49.81	-6.22	43.59	74.00	-30.41	Vertical
2	20052.9553	47.85	-5.10	42.75	74.00	-31.25	Vertical
3	22709.4709	49.23	-4.14	45.09	74.00	-28.91	Vertical
4	23352.9853	48.47	-3.27	45.20	74.00	-28.80	Vertical
5	24294.0294	48.29	-2.86	45.43	74.00	-28.57	Vertical
6	24844.0344	49.49	-3.39	46.10	74.00	-27.90	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.  
4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

#### Part 4: 30MHz~1GHz

##### SPURIOUS EMISSIONS 30MHz ~ 1GHz (WORST-CASE CONFIGURATION)

Test Mode	Channel	Polarization	Verdict
BLE 1M	MCH	Horizontal	PASS

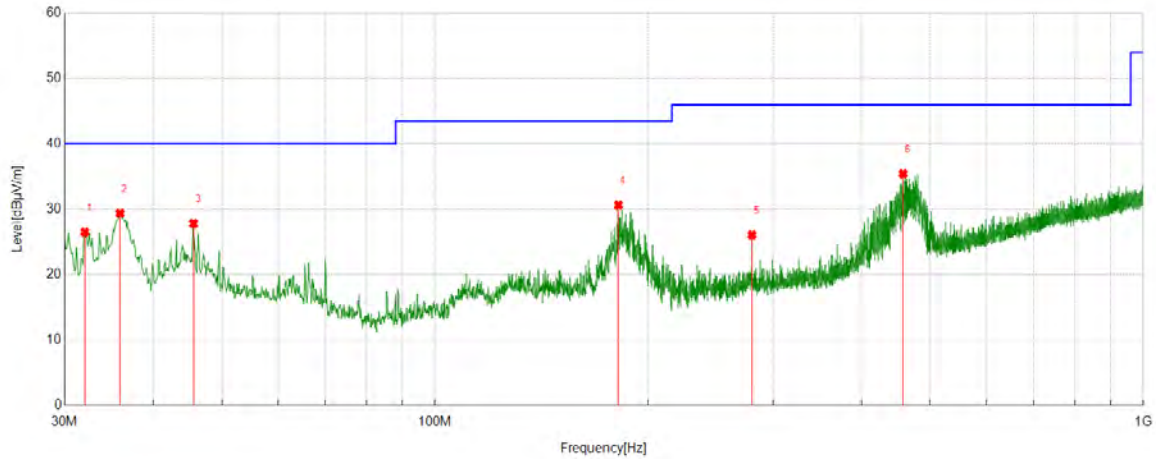


No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	70.0650	8.18	17.94	26.12	40.00	-13.88	Peak
2	128.6589	7.70	18.80	26.50	43.50	-17.00	Peak
3	135.2555	7.20	19.48	26.68	43.50	-16.82	Peak
4	186.9617	15.50	17.97	33.47	43.50	-10.03	Peak
5	279.3149	6.91	20.58	27.49	46.00	-18.51	Peak
6	454.5145	5.01	25.14	30.15	46.00	-15.85	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 1M	MCH	Vertical	PASS

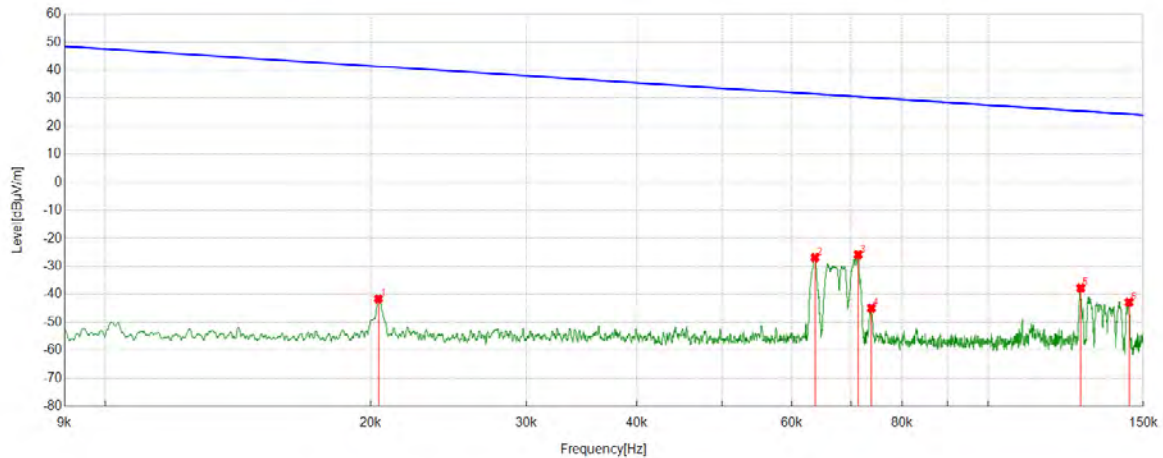


No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
1	32.0372	7.83	18.68	26.51	40.00	-13.49	QP
2	35.9176	10.20	19.18	29.38	40.00	-10.62	Peak
3	45.6186	7.60	20.20	27.80	40.00	-12.20	Peak
4	181.5292	11.98	18.66	30.64	43.50	-12.86	Peak
5	280.2850	5.45	20.63	26.08	46.00	-19.92	Peak
6	458.0068	10.26	25.16	35.42	46.00	-10.58	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 5: 9kHz~30MHz**
**SPURIOUS EMISSIONS 9kHz ~ 30MHz (WORST CASE CONFIGURATION-FACE ON)**

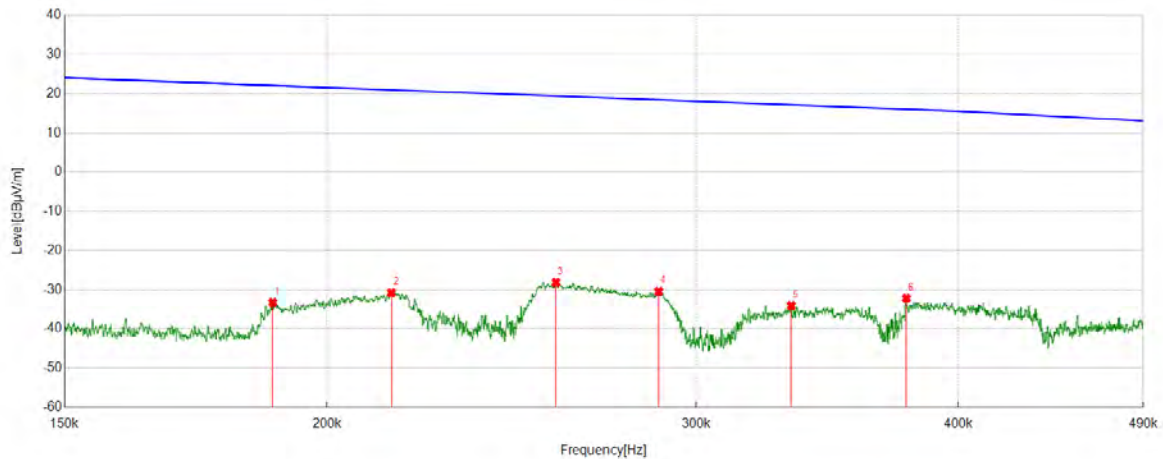
Test Mode	Channel	Frequency Range	Verdict
BLE 1M	MCH	9kHz~150kHz	PASS



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	20.12	-61.74	-41.62	41.39	-93.12	-10.11	-83.01	Peak
2	0.0637	34.68	-61.61	-26.93	31.53	-78.43	-19.97	-58.46	Peak
3	0.0713	35.74	-61.61	-25.87	30.54	-77.37	-20.96	-56.41	Peak
4	0.0738	16.64	-61.61	-44.97	30.24	-96.47	-21.26	-75.21	Peak
5	0.1274	24.02	-61.72	-37.7	25.51	-89.20	-25.99	-63.21	Peak
6	0.1445	18.86	-61.73	-42.87	24.40	-94.37	-27.10	-67.27	Peak

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

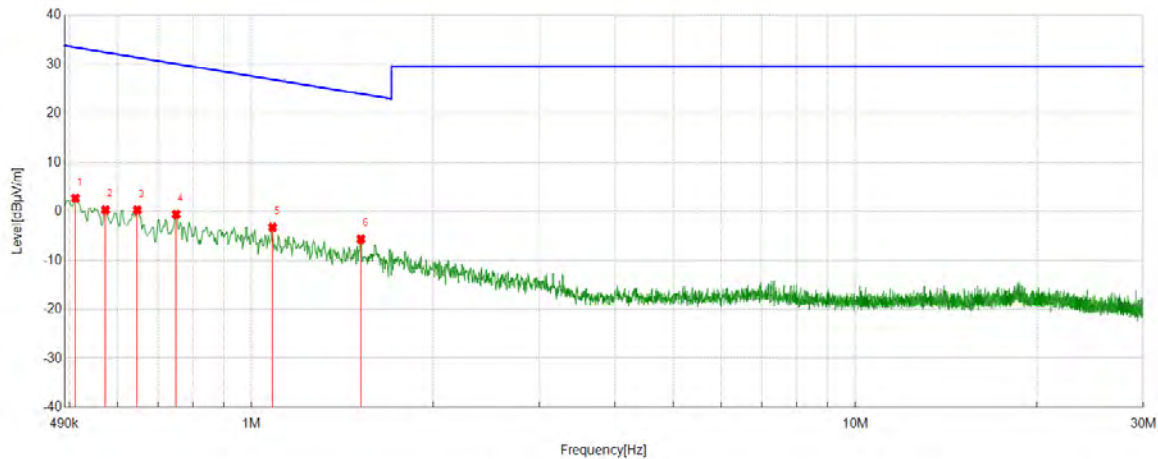
Test Mode	Channel	Frequency Range	Verdict
BLE 1M	MCH	150kHz~490kHz	PASS



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	0.1885	28.48	-61.76	-33.28	22.1	-84.78	-29.40	-55.38	Peak
2	0.2147	31.00	-61.78	-30.78	20.97	-82.28	-30.53	-51.75	Peak
3	0.2572	33.62	-61.80	-28.18	19.40	-79.68	-32.10	-47.58	Peak
4	0.2879	31.39	-61.81	-30.42	18.42	-81.92	-33.08	-48.84	Peak
5	0.3330	27.74	-61.82	-34.08	17.15	-85.58	-34.35	-51.23	Peak
6	0.3778	29.65	-61.83	-32.18	16.06	-83.68	-35.44	-48.24	Peak

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

Test Mode	Channel	Frequency Range	Verdict
BLE 1M	MCH	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	0.5107	24.55	-21.89	2.66	33.44	30.78	-18.06	-30.78	Peak
2	0.5726	22.18	-21.89	0.29	32.45	32.16	-19.05	-32.16	Peak
3	0.6464	22.15	-21.88	0.27	31.39	31.12	-20.11	-31.12	Peak
4	0.7497	21.27	-21.87	-0.60	30.10	30.70	-21.40	-30.70	Peak
5	1.0832	18.59	-21.86	-3.27	26.91	30.18	-24.59	-30.18	Peak
6	1.5171	16.16	-21.84	-5.68	23.98	29.66	-27.52	-29.66	Peak

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

## 9. AC POWER LINE CONDUCTED EMISSIONS

### LIMITS

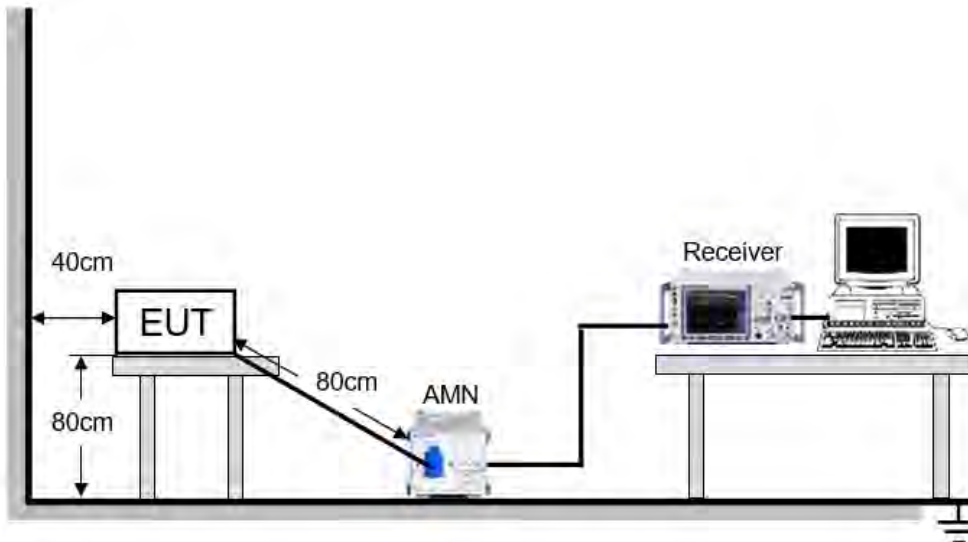
Please refer to FCC §15.207 (a)

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 ENVIRONMENT

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

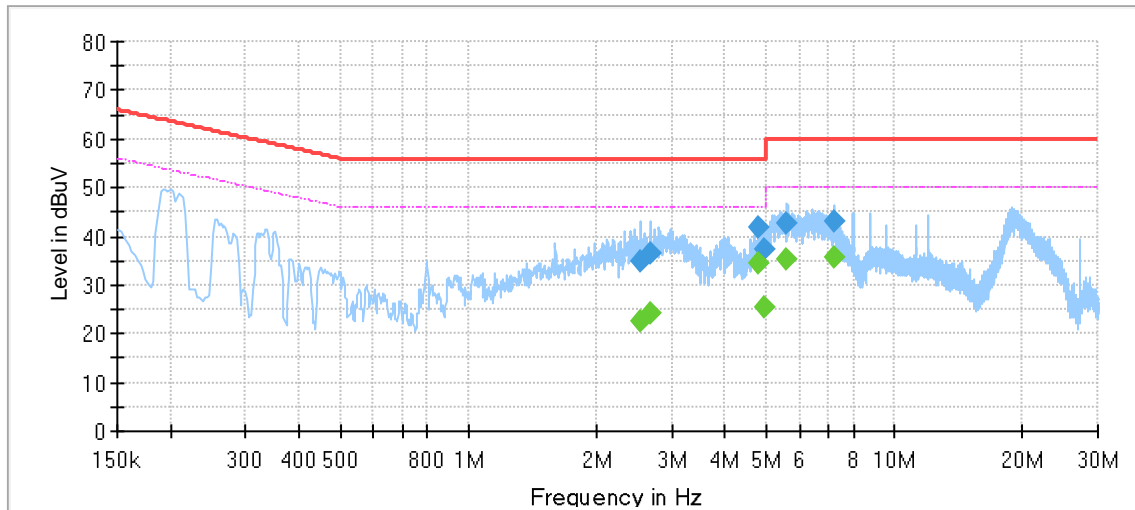
### TEST SETUP AND PROCEDURE



The EUT is put on a table of non-conducting material that is 12 mm 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 an 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.

### LINE L RESULTS (WORST-CASE CONFIGURATION)



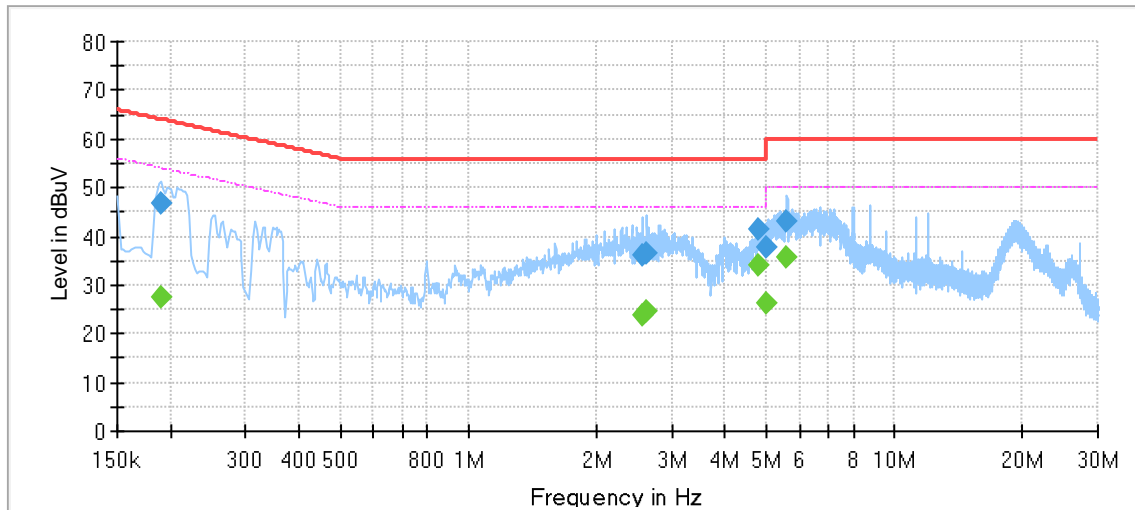
### Final\_Result

Frequency [MHz]	QuasiPeak [dBμV]	Average [dBμV]	Limit [dBμV]	Margin [dB]	Meas. Time [ms]	Bandwidth [kHz]	Line	Filter	Corr. [dB]
2.530538	---	22.76	46.00	23.24	1500.0	9.000	L1	OFF	9.6
2.530538	34.74	---	56.00	21.26	1500.0	9.000	L1	OFF	9.6
2.667350	---	24.26	46.00	21.74	1500.0	9.000	L1	OFF	9.6
2.667350	36.55	---	56.00	19.45	1500.0	9.000	L1	OFF	9.6
4.799138	---	34.39	46.00	11.61	1500.0	9.000	L1	OFF	9.7
4.799138	41.67	---	56.00	14.33	1500.0	9.000	L1	OFF	9.7
4.963313	---	25.62	46.00	20.38	1500.0	9.000	L1	OFF	9.7
4.963313	37.38	---	56.00	18.62	1500.0	9.000	L1	OFF	9.7
5.600113	---	35.39	50.00	14.61	1500.0	9.000	L1	OFF	9.7
5.600113	42.86	---	60.00	17.14	1500.0	9.000	L1	OFF	9.7
7.199575	---	35.71	50.00	14.29	1500.0	9.000	L1	OFF	9.7
7.199575	42.94	---	60.00	17.06	1500.0	9.000	L1	OFF	9.7

- Note: 1. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.  
2. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).  
3. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.  
4. The extension cord/outlet strip was calibrated with the LISN as required by ANSI C63.10:2013 Clause 6.2.2.  
5. Pre-testing all test modes and channels and find the MCH of BLE 1M which is the worst case, so only the worst case is included in this test report.



### LINE N RESULTS (WORST-CASE CONFIGURATION)



### Final\_Result

Frequency [MHz]	QuasiPeak [dBμV]	Average [dBμV]	Limit [dBμV]	Margin [dB]	Meas. Time [ms]	Bandwidth [kHz]	Line	Filter	Corr. [dB]
0.189800	---	27.64	54.05	26.40	1500.0	9.000	N	OFF	9.5
0.189800	46.70	---	64.05	17.34	1500.0	9.000	N	OFF	9.5
2.555413	---	23.99	46.00	22.01	1500.0	9.000	N	OFF	9.6
2.555413	36.06	---	56.00	19.94	1500.0	9.000	N	OFF	9.6
2.627550	---	24.68	46.00	21.32	1500.0	9.000	N	OFF	9.6
2.627550	36.54	---	56.00	19.46	1500.0	9.000	N	OFF	9.6
4.799138	---	34.12	46.00	11.88	1500.0	9.000	N	OFF	9.6
4.799138	41.34	---	56.00	14.66	1500.0	9.000	N	OFF	9.6
4.988188	---	26.41	46.00	19.59	1500.0	9.000	N	OFF	9.6
4.988188	37.89	---	56.00	18.11	1500.0	9.000	N	OFF	9.6
5.600113	---	35.59	50.00	14.41	1500.0	9.000	N	OFF	9.7
5.600113	43.12	---	60.00	16.88	1500.0	9.000	N	OFF	9.7

- Note: 1. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.  
2. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).  
3. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.  
4. The extension cord/outlet strip was calibrated with the LISN as required by ANSI C63.10:2013 Clause 6.2.2.  
5. Pre-testing all test modes and channels and find the HCH of BLE 1M which is the worst case, so only the worst case is included in this test report.

## 10. ANTENNA REQUIREMENTS

### APPLICABLE REQUIREMENTS

Please refer to FCC §15.203

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Please refer to FCC §15.247(b)(4)

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

### ANTENNA GAIN

The antenna gain of EUT is less than 6 dBi

**END OF REPORT**