



Shenzhen Global Test Service Co.,Ltd.

No.7-101 and 8A-104, Building 7 and 8, DCC Cultural and Creative Garden, No.98, Pingxin North Road, Shangmugu Community, Pinghu Street, Longgang District, Shenzhen, Guangdong

FCC PART 15 SUBPART C TEST REPORT

FCC PART 15.247

Report Reference No.....: GTS20210309019-1-11

FCC ID.....: 2A2CL-ZORAE1

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Date of issue: Jun.18, 2021

Representative Laboratory Name.: Shenzhen Global Test Service Co.,Ltd

Address: No.7-101 and 8A-104, Building 7 and 8, DCC Cultural and Creative Garden, No.98, Pingxin North Road, Shangmugu Community, Pinghu Street, Longgang District, Shenzhen, Guangdong,China

Applicant's name.....: Orbbec Inc.

Address: 11-13/F, Union Tower Hi-tech Zone, No.63 Xuefu Rd., Nanshan Dist., Shenzhen, China

Test specification

Standard.....: FCC Part 15.247: Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz.

TRF Originator.....: Shenzhen Global Test Service Co.,Ltd.

Master TRF: Dated 2014-12

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Test item description: Zora E1 DEVELOPMENT BOARD

Trade Mark: N/A

Manufacturer: Orbbec Inc.

Model/Type reference: Zora E1

Listed Models: N/A

Modulation Type: GFSK

Operation Frequency.....: From 2402MHz to 2480MHz

Hardware Version: V1.0

Software Version: V1.0

Rating: DC 5.0-12.0V/2.0A or
DC 12.0V/2.0A by POE

Result: PASS

TEST REPORT

Test Report No. :	GTS20210309019-1-11	Jun.18, 2021
		Date of issue

Equipment under Test : Zora E1 DEVELOPMENT BOARD

Model /Type : Zora E1

Listed model : N/A

Applicant : **Orbbec Inc.**

Address : 11-13/F, Union Tower Hi-tech Zone, No.63 Xuefu Rd., Nanshan Dist., Shenzhen, China

Manufacturer : **Orbbec Inc.**

Address : 11-13/F, Union Tower Hi-tech Zone, No.63 Xuefu Rd., Nanshan Dist., Shenzhen, China

Test Result:	PASS
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The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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1. TEST STANDARDS

The tests were performed according to following standards:

[FCC Rules Part 15.247](#): Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz.

[ANSI C63.10-2013](#): American National Standard for Testing Unlicensed Wireless Devices

[KDB558074 D01 DTS Meas Guidance v05r02](#): Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247.

2. SUMMARY

2.1. General Remarks

Date of receipt of test sample	:	Jun.03, 2021
Testing commenced on	:	Jun.03, 2021
Testing concluded on	:	Jun.18, 2021

2.2. Product Description

Product Name	Zora E1 DEVELOPMENT BOARD
Trade Mark	N/A
Model/Type reference	Zora E1
List Models	N/A
Model Declaration	N/A
Power supply:	DC 5.0-12.0V/2.0A or DC 12.0V/2.0A by POE
Sample ID	GTS20210309019-1-1# & GTS20210309019-1-2#
Bluetooth	
Operation frequency	2402-2480MHz
Channel Number	79 channels for Bluetooth (DSS) 40 channels for Bluetooth (DTS)
Channel Spacing	1MHz for Bluetooth (DSS) 2MHz for Bluetooth (DTS)
Modulation Type	GFSK, $\pi/4$ -DQPSK, 8DPSK for Bluetooth (DSS) GFSK for Bluetooth (DTS)
WIFI(2.4G Band)	
Frequency Range	2412MHz ~ 2462MHz
Channel Spacing	5MHz
Channel Number	11 Channel for 20MHz bandwidth(2412~2462MHz) 7 channels for 40MHz bandwidth(2422~2452MHz)
Modulation Type	802.11b: DSSS; 802.11g/n: OFDM
WIFI(5.2G Band)	
Frequency Range	5180MHz ~ 5240MHz
Channel Number	4 channels for 20MHz bandwidth(5180-5240MHz) 2 channels for 40MHz bandwidth(5190~5230MHz) 1 channels for 80MHz bandwidth(5210MHz)
Modulation Type	802.11a/n/ac: OFDM
WIFI (5.8G Band)	
Frequency Range	5745MHz ~ 5825MHz
Channel Number	5 channels for 20MHz bandwidth(5745-5825MHz) 2 channels for 40MHz bandwidth(5755~5795MHz) 1 channels for 80MHz bandwidth(5775MHz)
Modulation Type	802.11a/n/ac: OFDM
Antenna Description	Two External Antennas respectively.WLAN support 2*2MIMO technology. ANT0 used for Bluetooth & WIFI TX/RX, 2.97dBi(Max.) for 2.4G Band and 3.44dBi(Max.) for 5G Band ANT1 used for WIFI TX/RX, 2.97dBi(Max.) for 2.4G Band and 3.44dBi(Max.) for 5G Band

2.3. Equipment Under Test

Power supply system utilised

Power supply voltage	:	<input type="radio"/>	230V / 50 Hz	<input type="radio"/>	120V / 60Hz
		<input checked="" type="radio"/>	12 V DC	<input type="radio"/>	24 V DC
		<input type="radio"/>	Other (specified in blank below)		

DC 12.0V

2.4. Short description of the Equipment under Test (EUT)

This is a Zora E1 DEVELOPMENT BOARD .

For more details, refer to the user's manual of the EUT.

2.5. EUT operation mode

The Applicant provides communication tools software to control the EUT for staying in continuous transmitting (Duty Cycle more than 98%) and receiving mode for testing .There are 40 channels provided to the EUT.

Channel 00/19/39 was selected to test.

Mode of Operations	Frequency Range (MHz)	Data Rate (Mbps)
(BLE)	2402	1
	2440	1
	2480	1
For Conducted Emission		
Test Mode	TX Mode	
For Radiated Emission		
Test Mode	TX Mode	

Channel	Frequency(MHz)	Channel	Frequency(MHz)
0	2402	20	2442
1	2404	21	2444
2	2406	22	2446
--	--	--	--
--	--	--	--
18	2438	38	2478
19	2440	39	2480

The EUT has been tested under operating condition.

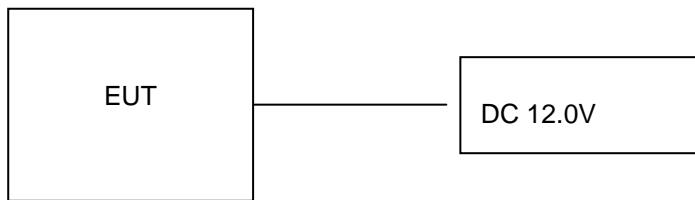
This test was performed with EUT in X, Y, Z position and the worst case was found when EUT in X position.

AC conducted emission pre-test at both at AC 120V/60Hz and AC 240V/60Hz modes, recorded worst case.

Worst-case mode and channel used for 150 KHz-30 MHz power line conducted emissions was the mode and channel with the highest output power, which was determined to be BT LE mode (MCH).

Worst-case mode and channel used for 9 KHz-1000 MHz radiated emissions was the mode and channel with the highest output power, that was determined to be BT LE mode(MCH).

2.6. Block Diagram of Test Setup



2.7. EUT Exercise Software

The system was configured for testing in a continuous transmits condition and change test channels by software (Ampak RFTestTool) provided by application.

2.8. Special Accessories

Manufacturer	Description	Model	Serial Number	Certificate
MERCURY	Adapter	M535081-2X1	--	SDOC
MERCURY	Full gigabit POE switch	SG105P	--	SDOC
PHILIPS	Displayer	203V5L	--	SDOC
FLYPOWER	Adapter	PH06S	--	SDOC
LENOVO	PC	DESKYOP-EUVCNR	--	SDOC

Note: The Adapter, Full gigabit POE switch, Displayer and PC is only used for auxiliary testing.

2.9. External I/O Cable

I/O Port Description	Quantity	Cable
Type-C Port	1	N/A
USB Port	4	N/A
HDMI Port	1	N/A
LAN Port	1	N/A

2.10. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for **FCC ID: 2A2CL-ZORAE1** filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rules.

2.11. Modifications

No modifications were implemented to meet testing criteria.

3. TEST ENVIRONMENT

3.1. Address of the test laboratory

Shenzhen Global Test Service Co.,Ltd.

No.7-101 and 8A-104, Building 7 and 8, DCC Cultural and Creative Garden, No.98, Pingxin North Road, Shangmugu Community, Pinghu Street, Longgang District, Shenzhen, Guangdong,China.

3.2. Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS (No. CNAS L8169)

Shenzhen Global Test Service Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2019 General Requirements) for the Competence of Testing and Calibration Laboratories.

A2LA (Certificate No. 4758.01)

Shenzhen Global Test Service Co., Ltd. has been assessed by the American Association for Laboratory Accreditation (A2LA). Certificate No. 4758.01.

Industry Canada Registration Number. is 24189.

FCC Designation Number is CN1234.

FCC Registered Test Site Number is 165725.

3.3. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15-35 ° C
Humidity:	30-60 %
Atmospheric pressure:	950-1050mbar

3.4. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 „Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements“ and is documented in the Shenzhen Global Test Service Co.,Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen GTS laboratory is reported:

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	30~1000MHz	4.10 dB	(1)
Radiated Emission	1~18GHz	4.32 dB	(1)
Radiated Emission	18~40GHz	5.54 dB	(1)
Conducted Disturbance	0.15~30MHz	3.12 dB	(1)

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

3.5. Test Description

Applied Standard: FCC Part 15 Subpart C				
FCC Rules	Description of Test	Test Sample	Result	Remark
/	On Time and Duty Cycle	GTS20210309019-1-1#	/	/
§15.247(b)	Maximum Conducted Output Power	GTS20210309019-1-1#	Compliant	Note 1
§15.247(e)	Power Spectral Density	GTS20210309019-1-1#	Compliant	Note 1
§15.247(a)(2)	6dB Bandwidth	GTS20210309019-1-1#	Compliant	Note 1
§2.1047	99% Occupied Bandwidth	/	N/A	N/A
§15.209, §15.247(d)	Conducted Spurious Emissions	GTS20210309019-1-1#	Compliant	Note 1
§15.209, §15.247(d)	Radiated Spurious Emissions	GTS20210309019-1-1# GTS20210309019-1-2#	Compliant	Note 1
§15.205	Emissions at Restricted Band	GTS20210309019-1-1# GTS20210309019-1-2#	Compliant	Note 1
§15.207(a)	AC Conducted Emissions	GTS20210309019-1-2#	Compliant	Note 1
§15.203 §15.247(c)	Antenna Requirements	GTS20210309019-1-1#	Compliant	Note 1
§15.247(i)§2.1091	RF Exposure	/	Compliant	Note 2

Remark:

1. The measurement uncertainty is not included in the test result.
2. NA = Not Applicable; NP = Not Performed
3. Note 1 – Test results inside test report;
4. Note 2 – Test results in other test report (SAR Report).
5. We tested all test mode and recorded worst case in report

3.6. Equipments Used during the Test

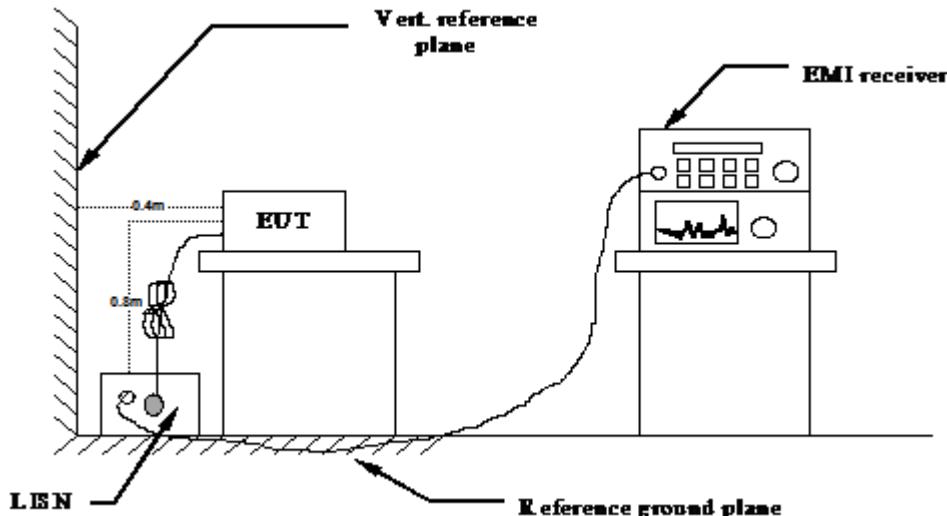
Test Equipment	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Due Date
LISN	CYBERTEK	EM5040A	E1850400105	2020/07/24	2021/07/23
LISN	R&S	ESH2-Z5	893606/008	2020/07/24	2021/07/23
EMI Test Receiver	R&S	ESPI3	101841-cd	2020/07/24	2021/07/23
EMI Test Receiver	R&S	ESCI7	101102	2020/09/20	2021/09/19
Spectrum Analyzer	Agilent	N9020A	MY48010425	2020/09/20	2021/09/19
Spectrum Analyzer	R&S	FSV40	100019	2020/07/24	2021/07/23
Vector Signal generator	Agilent	N5181A	MY49060502	2020/07/14	2021/07/13
Signal generator	Agilent	N5182A	3610AO1069	2020/09/20	2021/09/19
Climate Chamber	ESPEC	EL-10KA	A20120523	2020/09/20	2021/09/19
Controller	EM Electronics	Controller EM 1000	N/A	N/A	N/A
Horn Antenna	Schwarzbeck	BBHA 9120D	01622	2020/11/08	2021/11/07
Active Loop Antenna	Beijing Da Ze Technology Co.,Ltd.	ZN30900C	15006	2020/10/11	2021/10/10
Bilog Antenna	Schwarzbeck	VULB9163	000976	2020/07/26	2021/07/25
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	791	2020/11/08	2021/11/07
Amplifier	Schwarzbeck	BBV 9743	#202	2020/07/24	2021/07/23
Amplifier	Schwarzbeck	BBV9179	9719-025	2020/07/24	2021/07/23
Amplifier	EMCI	EMC051845B	980355	2020/07/24	2021/07/23
Temperature/Humidity Meter	Gangxing	CTH-608	02	2020/07/24	2021/07/23
High-Pass Filter	K&L	9SH10-2700/X12750-O/O	KL142031	2020/07/24	2021/07/23
High-Pass Filter	K&L	41H10-1375/U12750-O/O	KL142032	2020/07/24	2021/07/23
RF Cable(below 1GHz)	HUBER+SUHNE R	RG214	RE01	2020/07/24	2021/07/23
RF Cable(above 1GHz)	HUBER+SUHNE R	RG214	RE02	2020/07/24	2021/07/23
Data acquisition card	Agilent	U2531A	TW53323507	2020/07/24	2021/07/23
Power Sensor	Agilent	U2021XA	MY5365004	2020/07/24	2021/07/23
Test Control Unit	Tonscend	JS0806-1	178060067	2020/07/22	2021/07/21
Automated filter bank	Tonscend	JS0806-F	19F8060177	2020/07/24	2021/07/23
EMI Test Software	Tonscend	JS1120-1	Ver 2.6.8.0518	/	/
EMI Test Software	Tonscend	JS1120-3	Ver 2.5.77.0418	/	/
EMI Test Software	Tonscend	JS32-CE	Ver 2.5	/	/
EMI Test Software	Tonscend	JS32-RE	Ver 2.5.1.8	/	/

Note: 1. The Cal.Interval was one year.

4. TEST CONDITIONS AND RESULTS

4.1. AC Power Conducted Emission

TEST CONFIGURATION



TEST PROCEDURE

- 1 The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10-2013.
- 2 Support equipment, if needed, was placed as per ANSI C63.10-2013
- 3 All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10-2013
- 4 The EUT received DC12V power, the adapter or POE received AC120V/60Hz or AC 240V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5 All support equipments received AC power from a second LISN, if any.
- 6 The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7 Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.
- 8 During the above scans, the emissions were maximized by cable manipulation.

AC Power Conducted Emission Limit

For intentional device, according to § 15.207(a) AC Power Conducted Emission Limits is as following :

Frequency range (MHz)	Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency.

TEST RESULTS

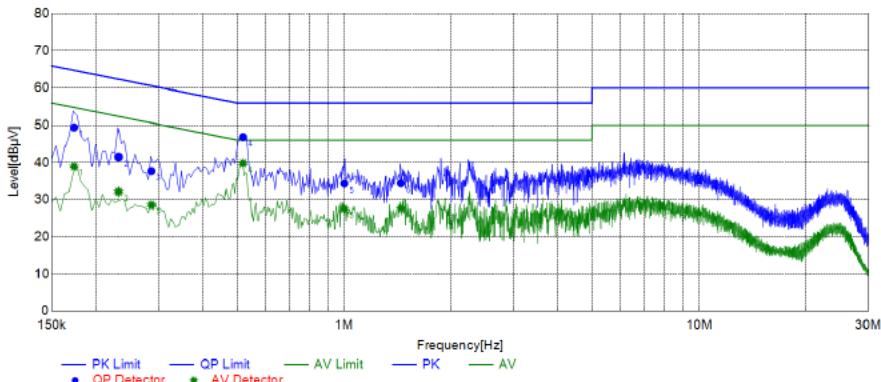
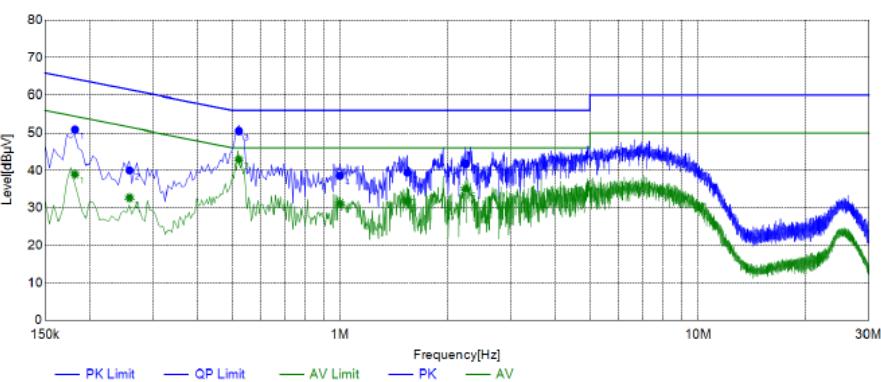
Remark: We measured Conducted Emission at GFSK mode from 150 KHz to 30MHz in AC120V and the worst case was recorded.

Temperature	24.2°C	Humidity	54.2%
Test Engineer	Oliver Ou	Configurations	BT

Adapter Power Supply:

Power supply:	AC 120V/60Hz	Polarization	L									
Test Graph												
Final Data List												
NO.	Frequency [MHz]	QP Reading [dB μ V]	Avg. Reading [dB μ V]	Factor [dB]	QP Result [dB μ V]	Avg. Result [dB μ V]	QP Limit [dB μ V]	Avg. Limit [dB μ V]	QP Margin [dB]	Avg. Margin [dB]	Line	Remark
1	0.6544	34.88	29.97	10.05	44.93	40.02	56.00	46.00	11.07	5.98	L1	PASS
2	1.7802	34.24	29.26	10.13	44.37	39.39	56.00	46.00	11.63	6.61	L1	PASS
3	2.6473	35.17	30.91	10.24	45.41	41.15	56.00	46.00	10.59	4.85	L1	PASS
4	4.8806	32.27	26.41	10.46	42.73	36.87	56.00	46.00	13.27	9.13	L1	PASS
5	6.3091	32.87	26.84	10.56	43.43	37.40	60.00	50.00	16.57	12.60	L1	PASS
6	15.3489	37.19	28.01	11.09	48.28	39.10	60.00	50.00	11.72	10.90	L1	PASS
Note: 1. Result (dB μ V) = Reading (dB μ V) + Factor (dB).												
2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).												
Power supply:	AC 120V/60Hz	Polarization	N									
Test Graph												
Final Data List												
NO.	Frequency [MHz]	QP Reading [dB μ V]	Avg. Reading [dB μ V]	Factor [dB]	QP Result [dB μ V]	Avg. Result [dB μ V]	QP Limit [dB μ V]	Avg. Limit [dB μ V]	QP Margin [dB]	Avg. Margin [dB]	Line	Remark
1	0.6550	34.73	30.34	10.05	44.78	40.39	56.00	46.00	11.22	5.61	N	PASS
2	1.1185	30.82	23.98	10.08	40.90	34.06	56.00	46.00	15.10	11.94	N	PASS
3	1.7931	33.56	28.81	10.13	43.69	38.94	56.00	46.00	12.31	7.06	N	PASS
4	2.6888	33.47	29.30	10.24	43.71	39.54	56.00	46.00	12.29	6.46	N	PASS
5	3.2932	32.58	25.72	10.32	42.90	36.04	56.00	46.00	13.10	9.96	N	PASS
6	15.3535	37.72	29.59	11.09	48.81	40.68	60.00	50.00	11.19	9.32	N	PASS
Note: 1. Result (dB μ V) = Reading (dB μ V) + Factor (dB).												
2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).												

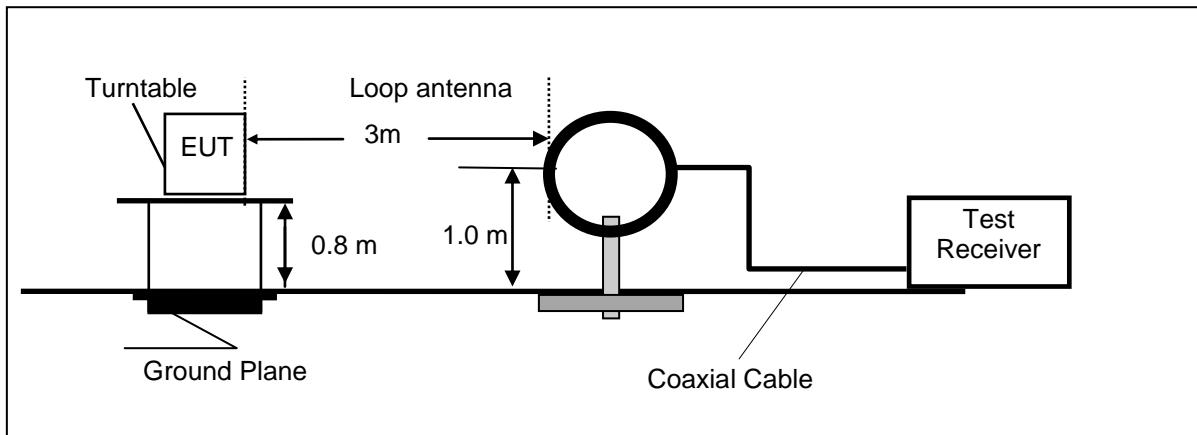
POE Power Supply:

Power supply:	AC 120V/60Hz	Polarization	L									
Test Graph												
												
Final Data List												
NO.	Frequency [MHz]	QP Reading [dBμV]	AVG. Reading [dBμV]	Factor [dB]	QP Result [dBμV]	AVG. Result [dBμV]	QP Limit [dBμV]	AVG. Limit [dBμV]	QP Margin [dB]	AVG. Margin [dB]	Line	Remark
1	0.1734	39.35	28.91	10.05	49.40	38.96	64.80	54.80	15.40	15.84	L1	PASS
2	0.2316	31.43	22.08	10.03	41.46	32.11	62.39	52.39	20.93	20.28	L1	PASS
3	0.2862	27.68	18.62	9.99	37.67	28.61	60.63	50.63	22.96	22.02	L1	PASS
4	0.5199	36.74	29.78	10.06	46.80	39.84	56.00	46.00	9.20	6.16	L1	PASS
5	1.0015	24.24	17.44	10.07	34.31	27.51	56.00	46.00	21.69	18.49	L1	PASS
6	1.4456	24.28	17.58	10.10	34.38	27.68	56.00	46.00	21.62	18.32	L1	PASS
Note: 1. Result (dB μ V) = Reading (dB μ V) + Factor (dB).												
2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).												
Power supply:	AC 120V/60Hz	Polarization	N									
Test Graph												
												
Final Data List												
NO.	Frequency [MHz]	QP Reading [dBμV]	AVG. Reading [dBμV]	Factor [dB]	QP Result [dBμV]	AVG. Result [dBμV]	QP Limit [dBμV]	AVG. Limit [dBμV]	QP Margin [dB]	AVG. Margin [dB]	Line	Remark
1	0.1820	40.77	28.90	10.06	50.83	38.96	64.39	54.39	13.56	15.43	N	PASS
2	0.2586	30.03	22.66	10.01	40.04	32.67	61.48	51.48	21.44	18.81	N	PASS
3	0.5223	40.40	32.75	10.06	50.46	42.81	56.00	46.00	5.54	3.19	N	PASS
4	1.0006	28.51	21.17	10.07	38.58	31.24	56.00	46.00	17.42	14.76	N	PASS
5	1.5450	29.33	21.67	10.11	39.44	31.78	56.00	46.00	16.56	14.22	N	PASS
6	2.2429	31.51	24.85	10.18	41.69	35.03	56.00	46.00	14.31	10.97	N	PASS
Note: 1. Result (dB μ V) = Reading (dB μ V) + Factor (dB).												
2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).												

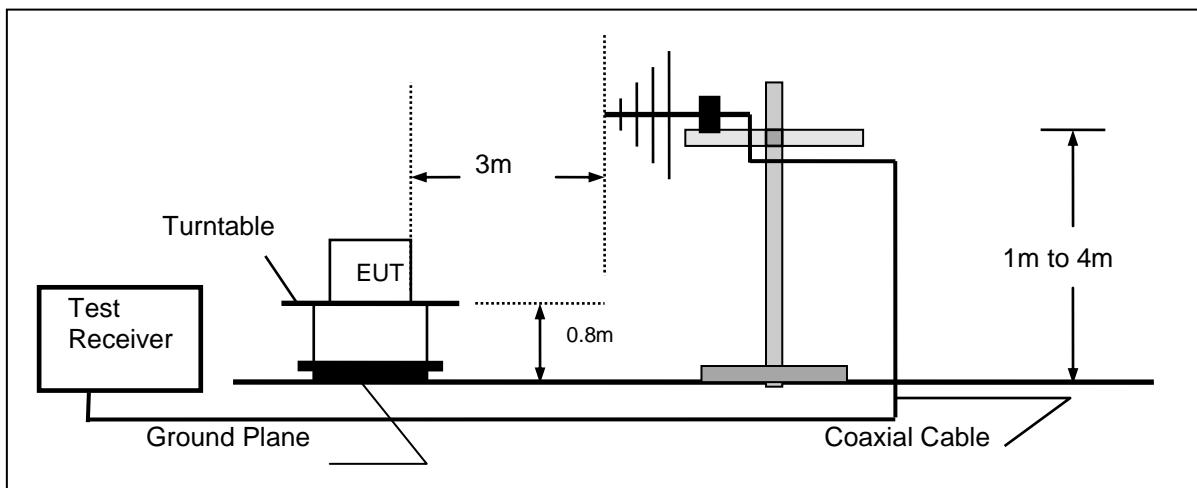
4.2. Radiated Emission

TEST CONFIGURATION

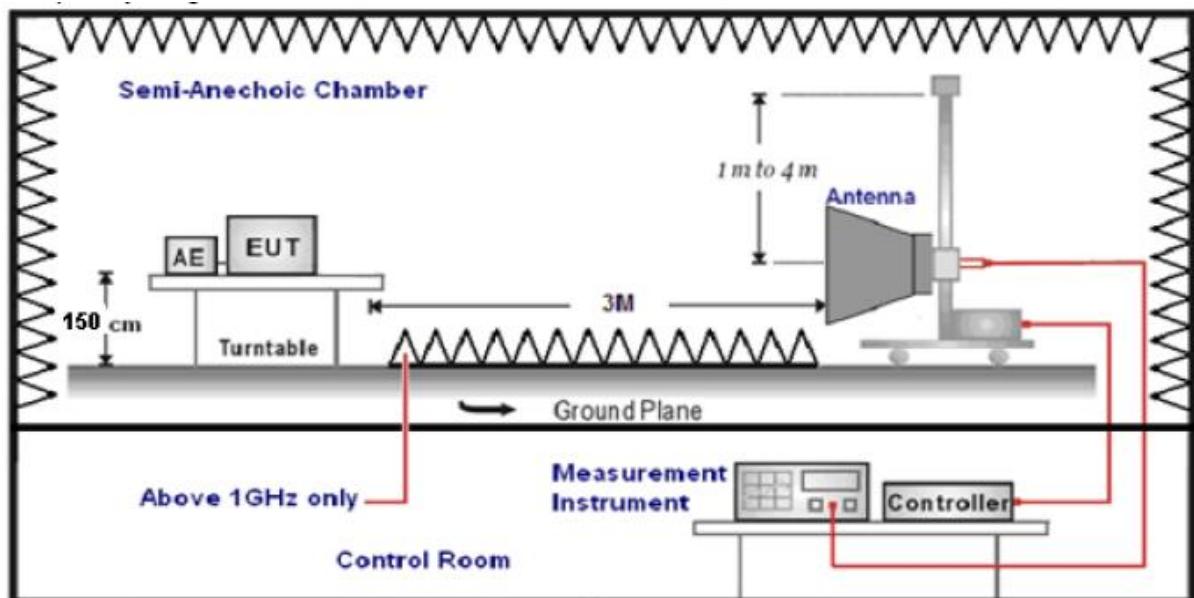
Frequency range 9 KHz – 30MHz



Frequency range 30MHz – 1000MHz



Frequency range above 1GHz-25GHz



TEST PROCEDURE

1. The EUT was placed on a turn table which is 0.8m above ground plane when testing frequency range 9 KHz –1GHz; the EUT was placed on a turn table which is 1.5m above ground plane when testing frequency range 1GHz – 25GHz.
2. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0°C to 360°C to acquire the highest emissions from EUT.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measurements have been completed.
5. Radiated emission test frequency band from 30MHz to 25GHz.
6. The distance between test antenna and EUT as following table states:

Test Frequency range	Test Antenna Type	Test Distance
9KHz-30MHz	Active Loop Antenna	3
30MHz-1GHz	Ultra-Broadband Antenna	3
1GHz-18GHz	Double Ridged Horn Antenna	3
18GHz-25GHz	Horn Antenna	1

7. Setting test receiver/spectrum as following table states:

Test Frequency range	Test Receiver/Spectrum Setting	Detector
9KHz-150KHz	RBW=200Hz/VBW=3KHz, Sweep time=Auto	QP
150KHz-30MHz	RBW=9KHz/VBW=100KHz, Sweep time=Auto	QP
30MHz-1GHz	RBW=120KHz/VBW=1000KHz, Sweep time=Auto	QP
1GHz-40GHz	Peak Value: RBW=1MHz/VBW=3MHz, Sweep time=Auto Average Value: RBW=1MHz/VBW=10Hz, Sweep time=Auto	Peak

Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor(if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	AG = Amplifier Gain
AF = Antenna Factor	

$$Transd = AF + CL - AG$$

RADIATION LIMIT

For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emission from intentional radiators at a distance of 3 meters shall not exceed the following table. According to § 15.247(d), in any 100kHz bandwidth outside the frequency band in which the EUT is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of desired power.

The pre-test have done for the EUT in three axes and found the worst emission at position shown in test setup photos.

Frequency (MHz)	Distance (Meters)	Radiated (dB μ V/m)	Radiated (μ V/m)
0.009-0.49	3	20log(2400/F(KHz))+40log(300/3)	2400/F(KHz)
0.49-1.705	3	20log(24000/F(KHz))+ 40log(30/3)	24000/F(KHz)
1.705-30	3	20log(30)+ 40log(30/3)	30
30-88	3	40.0	100
88-216	3	43.5	150
216-960	3	46.0	200
Above 960	3	54.0	500

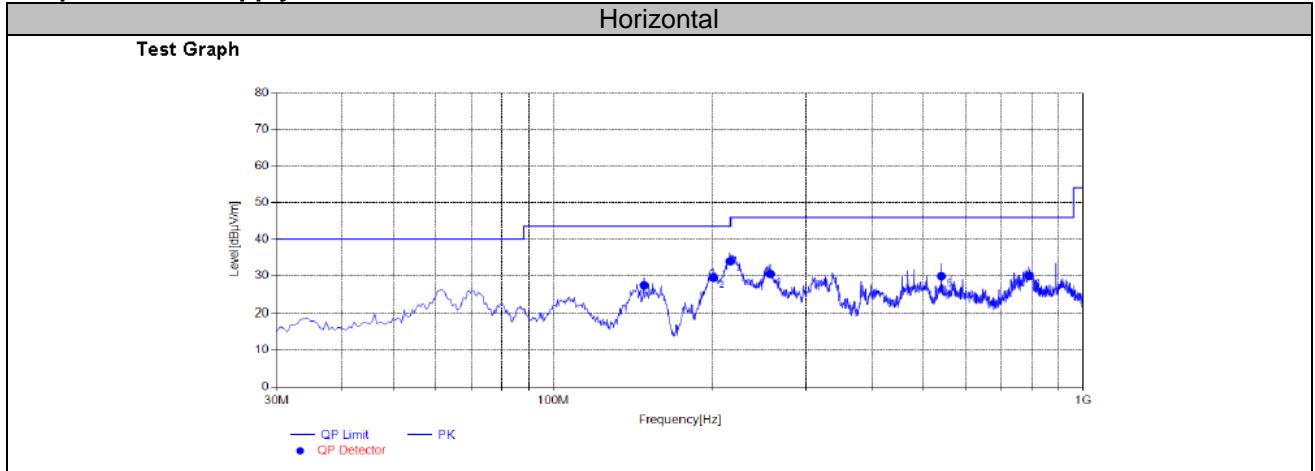
TEST RESULTS

Remark: We measured Radiated Emission at GFSK mode from 30 MHz to 25GHz in AC120V and the worst case was recorded.

Temperature	24.1 °C	Humidity	53.8%
Test Engineer	Oliver Ou	Configurations	BT

For 30MHz to 1000MHz

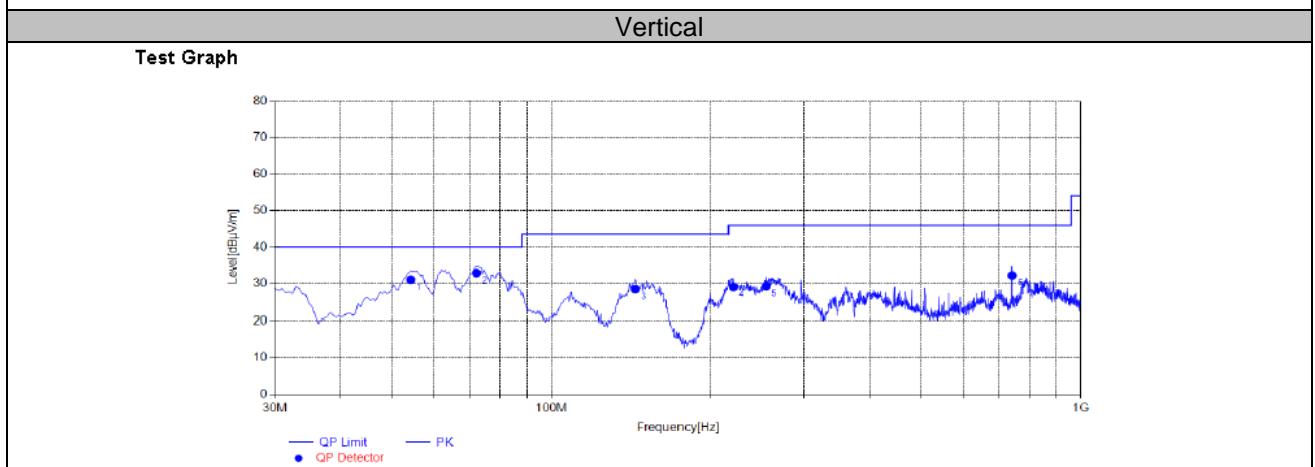
Adapter Power Supply:

**Quasi-peak Final Data List**

NO.	Frequency [MHz]	Reading [dB μ V/m]	Factor [dB]	Result [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Remark
1	148.3400	40.26	-12.81	27.45	43.50	16.05	100	100	Horizontal	PASS
2	200.7200	38.25	-8.69	29.56	43.50	13.94	100	320	Horizontal	PASS
3	215.7550	43.26	-9.29	33.97	43.50	9.53	100	10	Horizontal	PASS
4	256.9800	38.24	-7.73	30.51	46.00	15.49	100	330	Horizontal	PASS
5	540.2200	32.14	-2.27	29.87	46.00	16.13	100	100	Horizontal	PASS
6	791.4500	28.34	1.58	29.92	46.00	16.08	100	350	Horizontal	PASS

Note: 1. Result (dB μ V/m) = Reading(dB μ V/m) + Factor (dB).

2. Factor (dB) = Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB).

**Quasi-peak Final Data List**

NO.	Frequency [MHz]	Reading [dB μ V/m]	Factor [dB]	Result [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Remark
1	54.2500	38.24	-7.15	31.09	40.00	8.91	100	120	Vertical	PASS
2	72.1950	44.12	-11.22	32.90	40.00	7.10	100	110	Vertical	PASS
3	143.9750	40.29	-11.80	28.49	43.50	15.01	100	240	Vertical	PASS
4	220.6050	38.25	-9.12	29.13	46.00	16.87	100	40	Vertical	PASS
5	254.5550	37.14	-7.81	29.33	46.00	16.67	100	300	Vertical	PASS
6	741.9800	31.24	0.98	32.22	46.00	13.78	100	170	Vertical	PASS

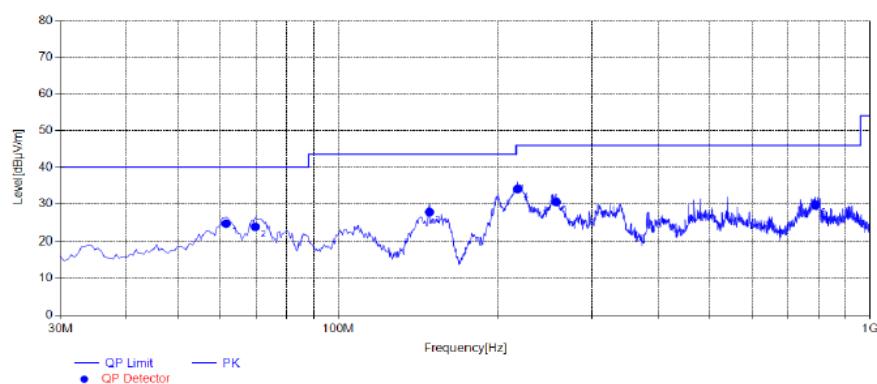
Note: 1. Result (dB μ V/m) = Reading(dB μ V/m) + Factor (dB).

2. Factor (dB) = Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB).

POE Power Supply:

Horizontal

Test Graph



Quasi-peak Final Data List

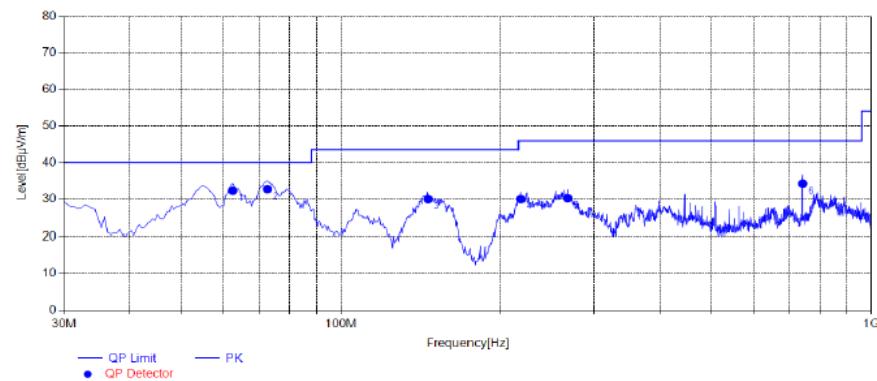
NO.	Frequency [MHz]	Reading [dBμV/m]	Factor [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Remark
1	61.5250	33.32	-8.75	24.57	40.00	15.43	100	190	Horizontal	PASS
2	69.7700	34.16	-10.35	23.81	40.00	16.19	100	360	Horizontal	PASS
3	148.3400	40.6	-12.81	27.79	43.50	15.71	100	180	Horizontal	PASS
4	217.2100	43.25	-9.23	34.02	46.00	11.98	100	240	Horizontal	PASS
5	256.9800	38.25	-7.73	30.52	46.00	15.48	100	260	Horizontal	PASS
6	789.0250	28.14	1.52	29.66	46.00	16.34	100	140	Horizontal	PASS

Note: 1. Result (dBμV/m) = Reading(dBμV/m) + Factor (dB) .

2. Factor (dB) = Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB).

Vertical

Test Graph



Quasi-peak Final Data List

NO.	Frequency [MHz]	Reading [dBμV/m]	Factor [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Remark
1	62.4950	41.34	-8.99	32.35	40.00	7.65	100	40	Vertical	PASS
2	72.6800	44.16	-11.36	32.80	40.00	7.20	100	130	Vertical	PASS
3	145.9150	42.36	-12.36	30.00	43.50	13.50	100	350	Vertical	PASS
4	218.1800	39.21	-9.19	30.02	46.00	15.98	100	190	Vertical	PASS
5	267.6500	38.27	-7.99	30.28	46.00	15.72	100	270	Vertical	PASS
6	742.4650	33.28	1.00	34.28	46.00	11.72	100	160	Vertical	PASS

Note: 1. Result (dBμV/m) = Reading(dBμV/m) + Factor (dB) .

2. Factor (dB) = Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB).

For 1GHz to 25GHz

BT LE

Channel 0 / 2402 MHz

Freq. MHz	Reading dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4804.00	49.94	32.44	30.25	7.95	60.08	74.00	-13.92	Peak	Horizontal
4804.00	35.44	32.44	30.25	7.95	45.58	54.00	-8.42	Average	Horizontal
4804.00	53.86	32.44	30.25	7.95	64.00	74.00	-10.00	Peak	Vertical
4804.00	36.01	32.44	30.25	7.95	46.15	54.00	-7.85	Average	Vertical

Channel 19 / 2440 MHz

Freq. MHz	Reading dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4880.00	49.24	32.52	30.31	8.12	59.57	74.00	-14.43	Peak	Horizontal
4880.00	37.80	32.52	30.31	8.12	48.13	54.00	-5.87	Average	Horizontal
4880.00	51.67	32.52	30.31	8.12	62.00	74.00	-12.00	Peak	Vertical
4880.00	35.57	32.52	30.31	8.12	45.90	54.00	-8.10	Average	Vertical

Channel 39 / 2480 MHz

Freq. MHz	Reading dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4960.00	51.73	32.68	30.27	7.88	62.02	74.00	-11.98	Peak	Horizontal
4960.00	36.27	32.68	30.27	7.88	46.56	54.00	-7.44	Average	Horizontal
4960.00	49.77	32.68	30.27	7.88	60.06	74.00	-13.94	Peak	Vertical
4960.00	31.27	32.68	30.27	7.88	41.56	54.00	-12.44	Average	Vertical

BT 2LE

Channel 0 / 2402 MHz

Freq. MHz	Reading dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4804.00	51.29	32.44	30.25	7.95	61.43	74.00	-12.57	Peak	Horizontal
4804.00	36.63	32.44	30.25	7.95	46.77	54.00	-7.23	Average	Horizontal
4804.00	53.33	32.44	30.25	7.95	63.47	74.00	-10.53	Peak	Vertical
4804.00	35.04	32.44	30.25	7.95	45.18	54.00	-8.82	Average	Vertical

Channel 19 / 2440 MHz

Freq. MHz	Reading dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4880.00	49.31	32.52	30.31	8.12	59.64	74.00	-14.36	Peak	Horizontal
4880.00	37.53	32.52	30.31	8.12	47.86	54.00	-6.14	Average	Horizontal
4880.00	50.99	32.52	30.31	8.12	61.32	74.00	-12.68	Peak	Vertical
4880.00	36.06	32.52	30.31	8.12	46.39	54.00	-7.61	Average	Vertical

Channel 39 / 2480 MHz

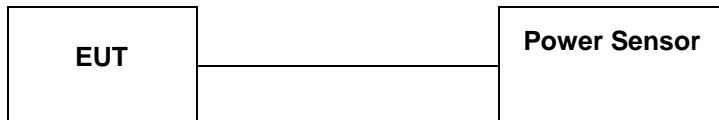
Freq. MHz	Reading dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4960.00	50.95	32.68	30.27	7.88	61.24	74.00	-12.76	Peak	Horizontal
4960.00	36.14	32.68	30.27	7.88	46.43	54.00	-7.57	Average	Horizontal
4960.00	48.64	32.68	30.27	7.88	58.93	74.00	-15.07	Peak	Vertical
4960.00	32.02	32.68	30.27	7.88	42.31	54.00	-11.69	Average	Vertical

Notes:

- 1). Measuring frequencies from 9 KHz~10th harmonic or 26.5GHz (which is less), No emission found between lowest internal used/generated frequency to 30MHz.
- 2). Radiated emissions measured in frequency range from 9 KHz~10th harmonic or 26.5GHz (which is less) were made with an instrument using Peak detector mode.
- 3). Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4). Measured= Reading- Pre. Fac.+ Ant. Fac.+ Cab. Loss
- 5). Margin = Measured- Limit

4.3. Maximum Peak Output Power

TEST CONFIGURATION



TEST PROCEDURE

According to KDB558074 D01 DTS Measurement Guidance Section 9.1 Maximum peak conducted output power,9.1.2.

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector.

LIMIT

The Maximum Peak Output Power Measurement is 30dBm.

TEST RESULTS

Temperature	24.2°C	Humidity	54.9%
Test Engineer	Oliver Ou	Configurations	BT

BT LE:

Modulation	Channel	Peak Output power (dBm)	Limit (dBm)	Result
GFSK	0	8.25	30	Pass
	19	9.26		
	39	8.19		

Note: 1.The test results including the cable lose.

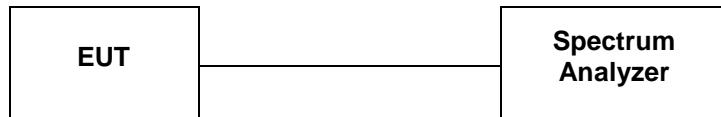
BT 2LE:

Modulation	Channel	Peak Output power (dBm)	Limit (dBm)	Result
GFSK	0	8.20	30	Pass
	19	9.23		
	39	8.24		

Note: 1.The test results including the cable lose.

4.4. Power Spectral Density

TEST CONFIGURATION



TEST PROCEDURE

1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
2. Set the RBW = 3 kHz.
3. Set the VBW = 10 kHz.
4. Set the span to 1.5 times the DTS channel bandwidth.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum power level.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.
11. The resulting peak PSD level must be 8 dBm.

LIMIT

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

TEST RESULTS

Temperature	24.2 °C	Humidity	54.9%
Test Engineer	Oliver Ou	Configurations	BT

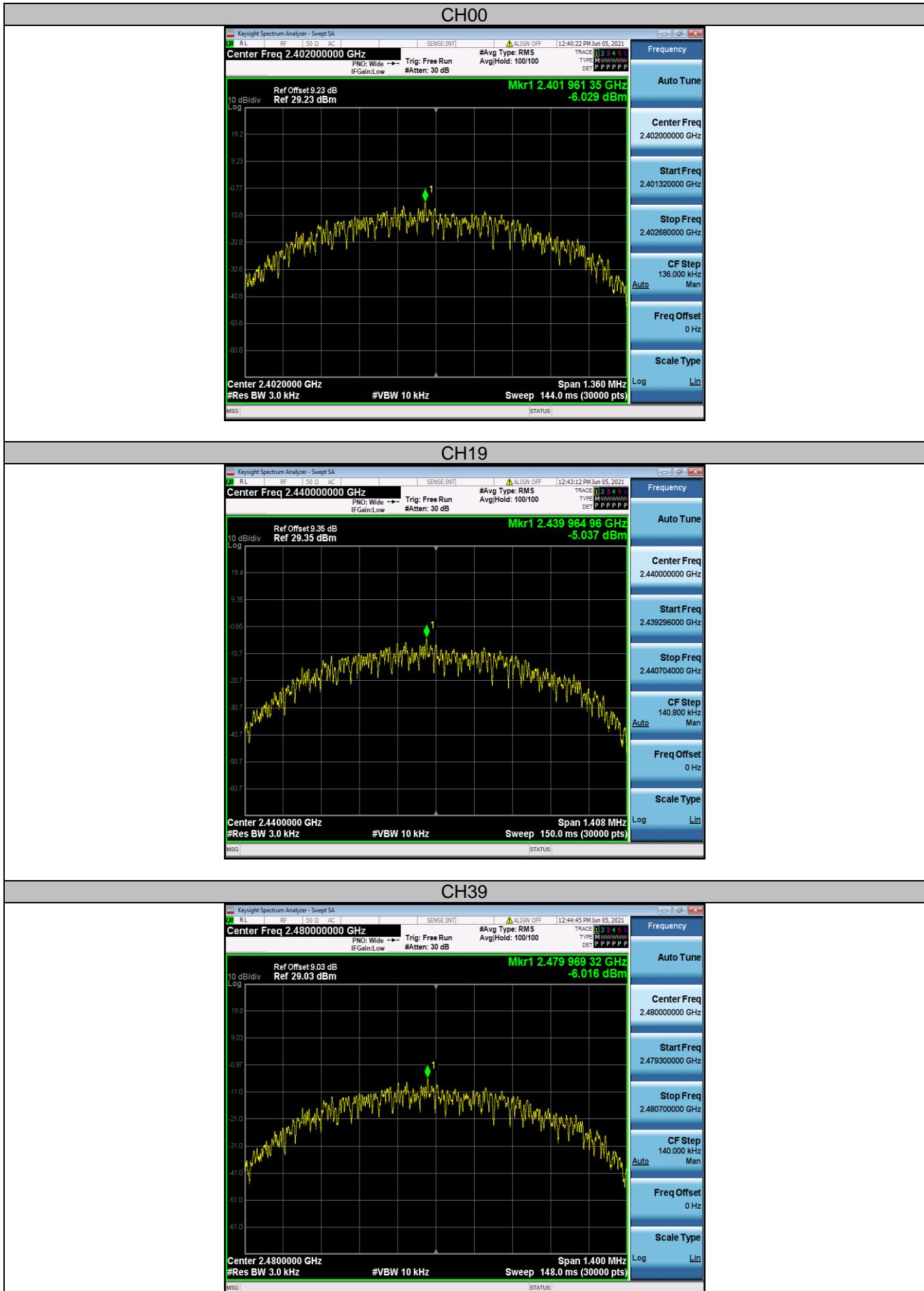
BT LE:

Modulation	Channel	Power Spectral Density(dBm/3KHz)	Limit (dBm/3KHz)	Result
GFSK	0	-6.03	8.00	Pass
	19	-5.04		
	39	-6.02		

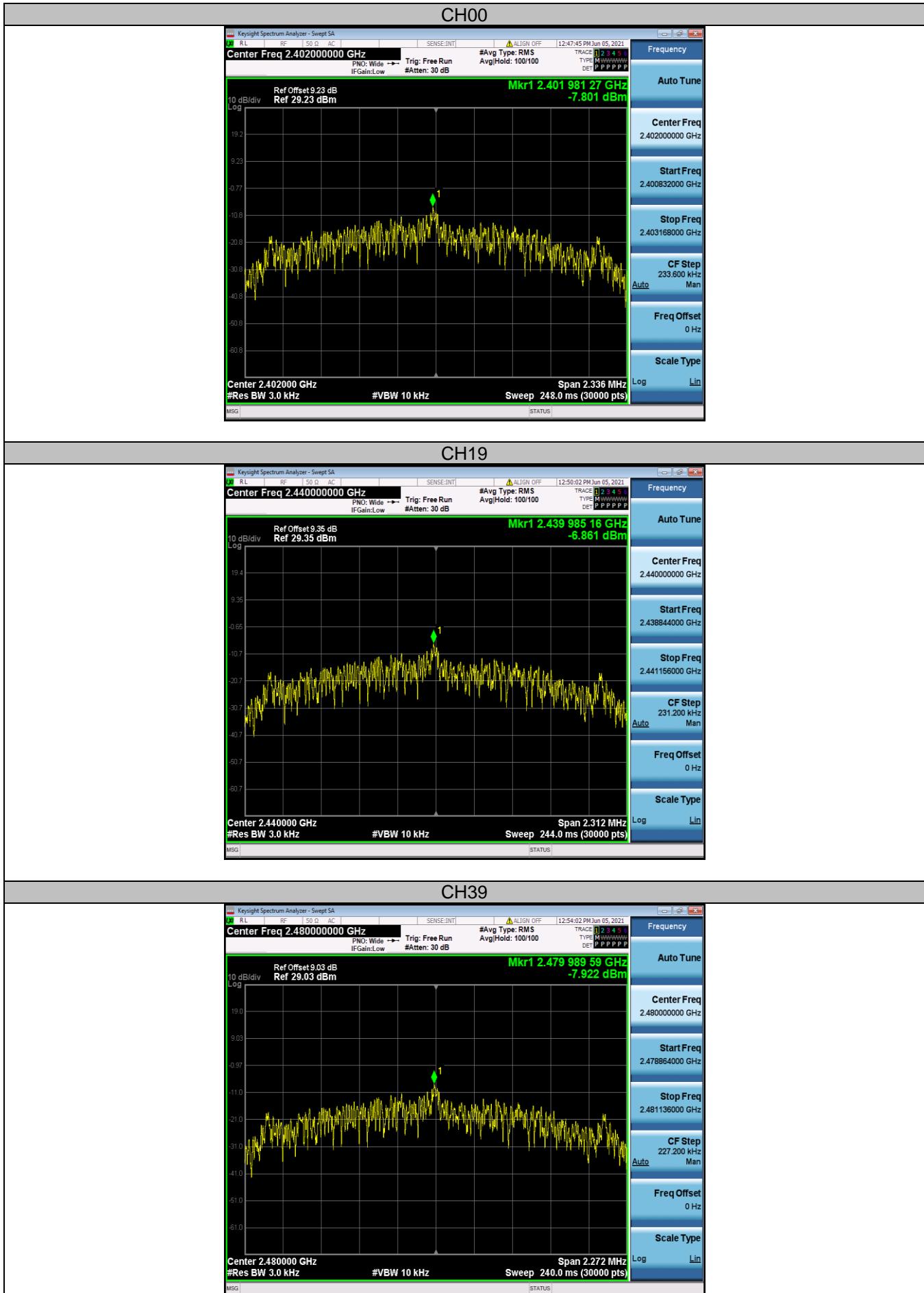
BT 2LE:

Modulation	Channel	Power Spectral Density(dBm/3KHz)	Limit (dBm/3KHz)	Result
GFSK	0	-7.80	8.00	Pass
	19	-6.86		
	39	-7.92		

BT LE:

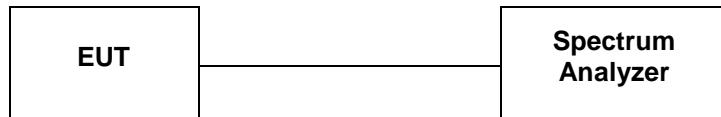


BT 2LE:



4.5. 6dB Bandwidth

TEST CONFIGURATION



TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with $RBW=100$ KHz and $VBW=300$ KHz.

The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB. According to KDB558074 D01 DTS Meas Guidance v05r02 for one of the following procedures may be used to determine the modulated DTS device signal bandwidth.

1. Set $RBW = 100$ kHz.
2. Set the video bandwidth (VBW) ≥ 3 RBW .
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. 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.

LIMIT

For digital modulation systems, the minimum 6 dB bandwidth shall be at least 500 kHz

TEST RESULTS

Temperature	24.2 °C	Humidity	54.9%
Test Engineer	Oliver Ou	Configurations	BT

BT LE:

Modulation	Channel	6dB Bandwidth (MHz)	Limit (KHz)	Result
GFSK	0	0.680	≥ 500	Pass
	19	0.704		
	39	0.700		

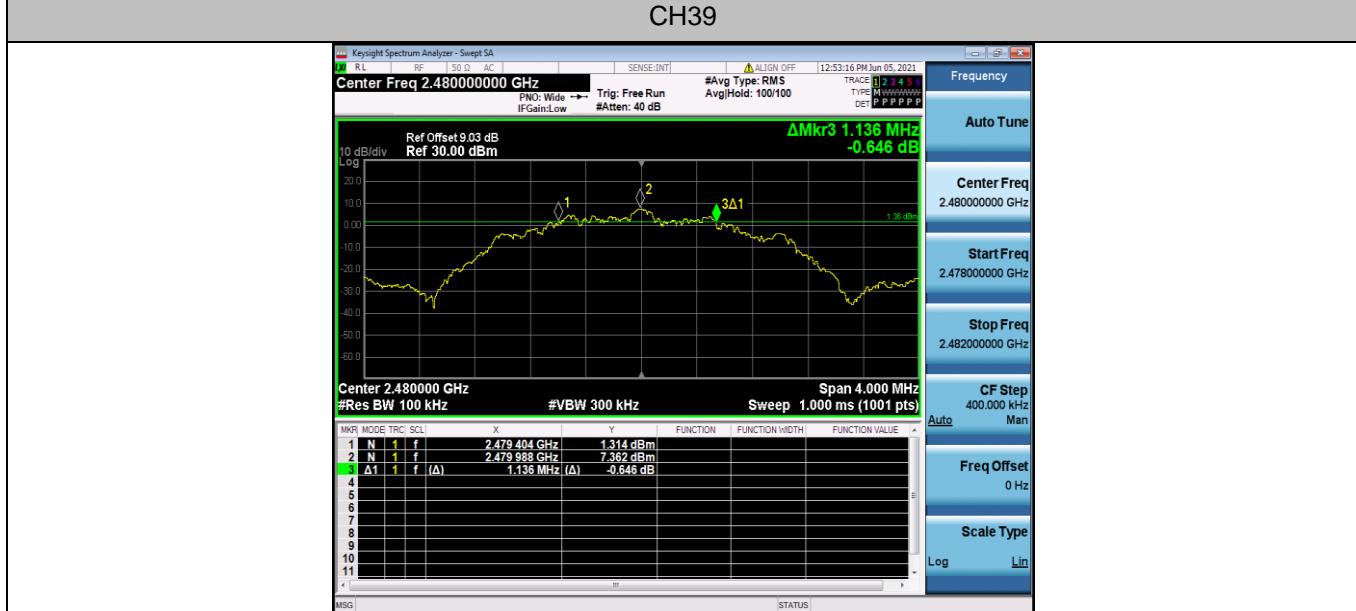
BT 2LE:

Modulation	Channel	6dB Bandwidth (MHz)	Limit (KHz)	Result
GFSK	0	1.168	≥ 500	Pass
	19	1.156		
	39	1.136		

BT LE:



BT 2LE:

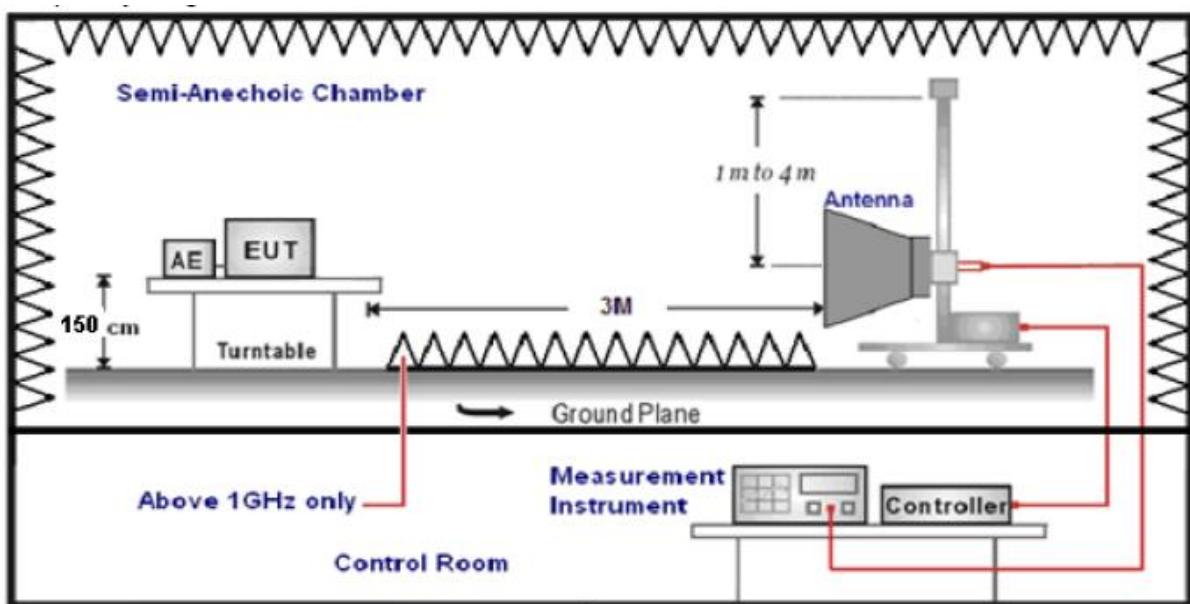


4.6. Band Edge Compliance of RF Emission

TEST REQUIREMENT

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

TEST CONFIGURATION



TEST PROCEDURE

1. The EUT was placed on a turn table which is 1.5m above ground plane.
2. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0°C to 360°C to acquire the highest emissions from EUT.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measurements have been completed..
5. The distance between test antenna and EUT was 3 meter:
6. Setting test receiver/spectrum as following table states:

Test Frequency range	Test Receiver/Spectrum Setting	Detector
1GHz-40GHz	Peak Value: RBW=1MHz/VBW=3MHz, Sweep time=Auto Average Value: RBW=1MHz/VBW=10Hz, Sweep time=Auto	Peak

LIMIT

Below -20dB of the highest emission level in operating band.

Radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)

TEST RESULTS**4.6.1 For Radiated Bandedge Measurement**

Temperature	23.8°C			Humidity			53.7%		
Test Engineer	Oliver Ou			Configurations			BT		

BT LE:

Frequency(MHz):		2402			Polarity:			HORIZONTAL		
Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier	Correction Factor (dB/m)
2390.00	46.75 PK	74	-27.25	1	115	52.06	27.49	3.32	36.12	-5.31
2390.00	34.18 AV	54	-19.82	1	115	39.49	27.49	3.32	36.12	-5.31
Frequency(MHz):		2402			Polarity:			VERTICAL		
Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier	Correction Factor (dB/m)
2390.00	46.79 PK	74	-27.21	1	233	52.10	27.49	3.32	36.12	-5.31
2390.00	34.82 AV	54	-19.18	1	233	40.13	27.49	3.32	36.12	-5.31
Frequency(MHz):		2480			Polarity:			HORIZONTAL		
Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier	Correction Factor (dB/m)
2483.50	49.37 PK	74	-24.63	1	169	55.09	27.45	3.38	36.55	-5.72
2483.50	35.29 AV	54	-18.71	1	169	41.01	27.45	3.38	36.55	-5.72
Frequency(MHz):		2480			Polarity:			VERTICAL		
Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier	Correction Factor (dB/m)
2483.50	49.59 PK	74	-24.41	1	91	55.31	27.45	3.38	36.55	-5.72
2483.50	35.18 AV	54	-18.82	1	91	40.90	27.45	3.38	36.55	-5.72

BT 2LE:

Frequency(MHz):		2402			Polarity:			HORIZONTAL		
Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier	Correction Factor (dB/m)
2390.00	45.78 PK	74	-28.22	1	278	51.09	27.49	3.32	36.12	-5.31
2390.00	34.09 AV	54	-19.91	1	278	39.40	27.49	3.32	36.12	-5.31
Frequency(MHz):		2402			Polarity:			VERTICAL		
Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier	Correction Factor (dB/m)
2390.00	45.29 PK	74	-28.71	1	107	50.60	27.49	3.32	36.12	-5.31
2390.00	34.74 AV	54	-19.26	1	107	40.05	27.49	3.32	36.12	-5.31
Frequency(MHz):		2480			Polarity:			HORIZONTAL		
Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier	Correction Factor (dB/m)
2483.50	48.24 PK	74	-25.76	1	193	53.96	27.45	3.38	36.55	-5.72
2483.50	35.10 AV	54	-18.90	1	193	40.82	27.45	3.38	36.55	-5.72
Frequency(MHz):		2480			Polarity:			VERTICAL		
Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier	Correction Factor (dB/m)
2483.50	49.08 PK	74	-24.92	1	135	54.80	27.45	3.38	36.55	-5.72
2483.50	36.18 AV	54	-17.82	1	135	41.90	27.45	3.38	36.55	-5.72

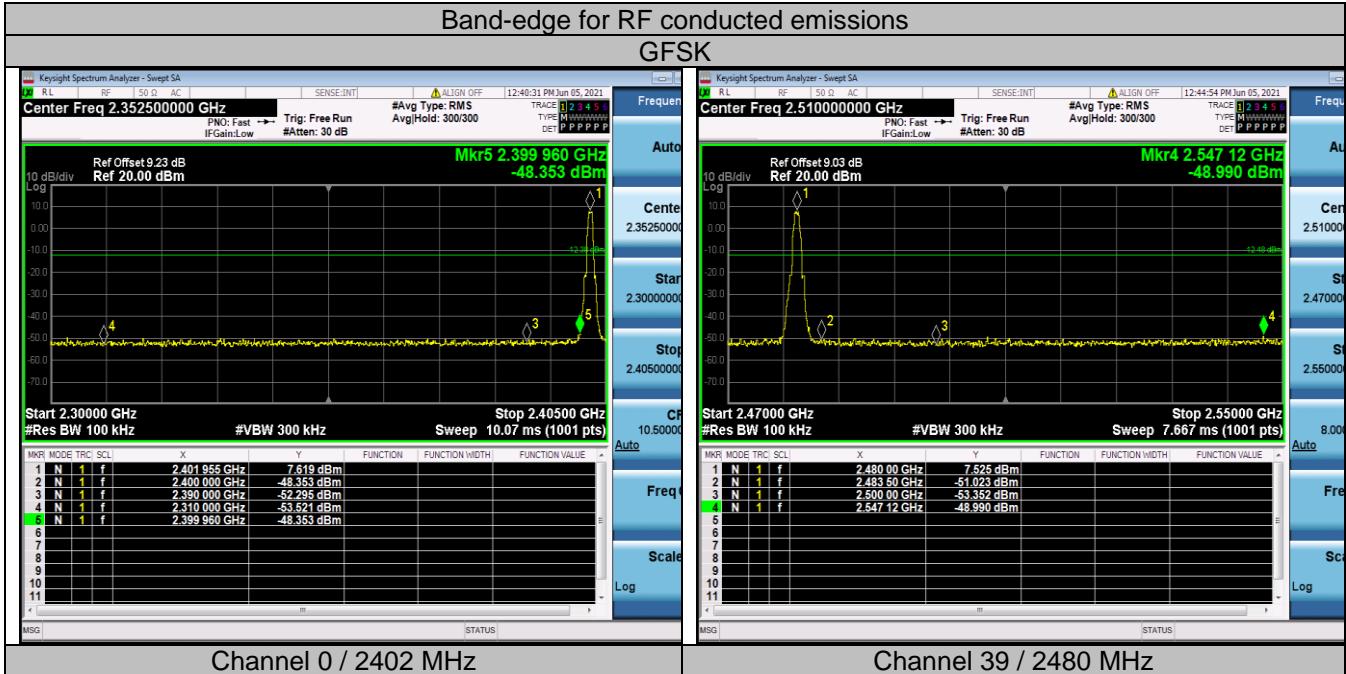
REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Pre-amplifier Factor
3. Margin value = Limit value - Emission level.
4. -- Mean the PK detector measured value is below average limit.
5. The other emission levels were very low against the limit.

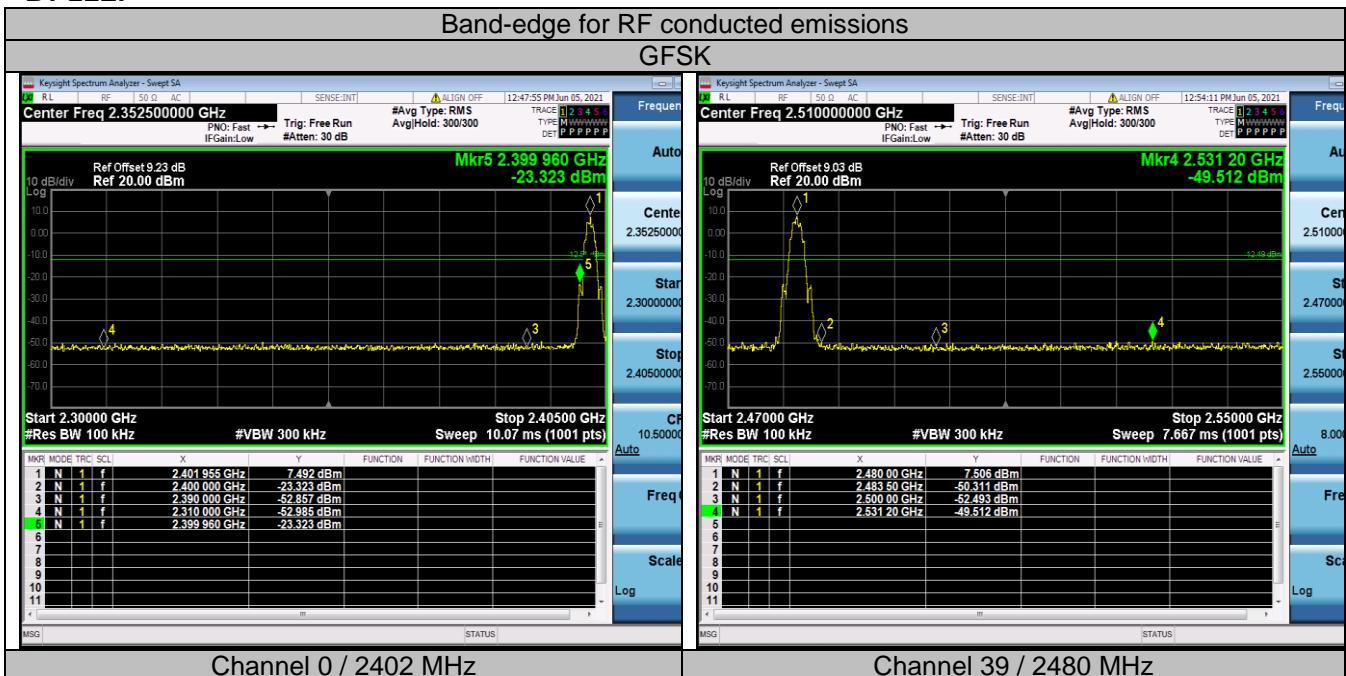
4.6.2 For Conducted Bandedge Measurement

Temperature	24.2 °C	Humidity	54.9%
Test Engineer	Oliver Ou	Configurations	BT

BT LE:



BT 2LE:



4.7. Antenna Requirement

Standard Applicable

For intentional device, according to FCC 47 CFR Section 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.

And according to FCC 47 CFR Section 15.247 (c), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

Test Result

The antenna used for this product is External Antenna and that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is only 2.97dBi.

Reference to the Test Report: **GTS20210309019-1-10** .

5. TEST SETUP PHOTOS OF THE EUT

Reference to the test report No. **GTS20210309019-1-10** .

6. EXTERNAL AND INTERNAL PHOTOS OF THE EUT

Reference to the test report No. **GTS20210309019-1-10** .

.....**End of Report**.....