




TEST REPORT

Report No. : **CHEW20060002** Report Verification: 

Project No...... : **SHT2005026001EW**

FCC ID..... : **BBOSC100**

Applicant's name..... : **COBRA ELECTRONICS CORPORATION**

Address..... : 6500 WEST CORTLAND STREET, CHICAGO, IL 60707 USA

Manufacturer..... : COBRA ELECTRONICS CORPORATION

Address..... : 6500 WEST CORTLAND STREET, CHICAGO, IL 60707 USA

Test item description : **Cobra SC 100**

Trade Mark : Cobra

Model/Type reference..... : SC100

Listed Model(s) : -

Standard : **FCC CFR Title 47 Part 15 Subpart C Section 15.247**

Date of receipt of test sample..... : May 19, 2020

Date of testing..... : May 19, 2020- May 29, 2020

Date of issue..... : Jun.01, 2020

Result..... : **PASS**

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Testing Laboratory Name : **Shenzhen Huatongwei International Inspection Co., Ltd.**

Address..... : 1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China

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1. TEST STANDARDS AND REPORT VERSION

1.1. 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
- [KDB 558074 D01 15.247 Meas Guidance v05r02](#): Guidance for Compliance Measurements on Digital Transmission System, Frequency Hopping Spread Spectrum System, and Hybrid System Devices Operating under Section 15.247 of The FCC Rules

1.2. Report version

Revision No.	Date of issue	Description
N/A	2020-06-01	Original

2. TEST DESCRIPTION

Report clause	Test Items	Standard Requirement	Result
5.1	Antenna Requirement	15.203/15.247(c)	PASS
5.2	AC Conducted Emission	15.207	PASS
5.3	Peak Output Power	15.247(b)(3)	PASS
5.4	Power Spectral Density	15.247(e)	PASS
5.5	6dB Bandwidth	15.247(a)(2)	PASS
5.6	99% Occupied Bandwidth	-	PASS ^{*1}
5.7	Duty cycle	-	PASS ^{*1}
5.8	Conducted Band Edge and Spurious Emission	15.247(d)/15.205	PASS
5.9	Radiated Band Edge Emission	15.205/15.209	PASS
5.10	Radiated Spurious Emission	15.247(d)/15.205/15.209	PASS

Note:

- The measurement uncertainty is not included in the test result.
- *1: No requirement on standard, only report these test data.

3. SUMMARY

3.1. Client Information

Applicant:	COBRA ELECTRONICS CORPORATION
Address:	6500 WEST CORTLAND STREET, CHICAGO, IL 60707 USA
Manufacturer:	COBRA ELECTRONICS CORPORATION
Address:	6500 WEST CORTLAND STREET, CHICAGO, IL 60707 USA

3.2. Product Description

Name of EUT:	Cobra SC 100
Trade Mark:	Cobra
Model No.:	SC100
Listed Model(s):	-
Power supply:	DC 5V
Hardware version:	90100D1590001
Software version:	COBRA SC-100 V1.06

3.3. Radio Specification Description

Bluetooth version:	V4.2
Support function ^{*2} :	BLE
Modulation:	GFSK
Operation frequency:	2402MHz~2480MHz
Channel number:	40
Channel separation:	2MHz
Antenna type:	FPC
Antenna gain:	2.85dBi

Note:

*2: only show the RF function associated with this report.

3.4. Testing Laboratory Information

Laboratory Name	Shenzhen Huatongwei International Inspection Co., Ltd.	
Laboratory Location	1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China	
Qualifications	Type	Accreditation Number
	CNAS	L1225
	A2LA	3902.01
	FCC	762235
	Canada	5377A

4. TEST CONFIGURATION

4.1. Test frequency list

According to section 15.31(m), regards to the operating frequency range over 10 MHz, must select three channels which were tested. The Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, please see the below blue front.

Channel	Frequency (MHz)
00	2402
01	2404
⋮	⋮
19	2440
⋮	⋮
38	2478
39	2480

4.2. Test mode

For RF test items
The engineering test program was provided and enabled to make EUT continuous transmit.
For Radiated spurious emissions test item:
The engineering test program was provided and enabled to make EUT continuous transmit. The EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data Recorded in the report.

4.3. Support unit used in test configuration and system

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

The following peripheral devices and interface cables were connected during the measurement:

Whether support unit is used?					
✓ No					
Item	Equipement	Trade Name	Model No.	FCC ID	Power cord
1					
2					

4.4. Testing environmental condition

Type	Requirement	Actual
Temperature:	15~35°C	25°C
Relative Humidity:	25~75%	50%
Air Pressure:	860~1060mbar	1000mbar

4.5. Measurement uncertainty

Test Item	Measurement Uncertainty
AC Conducted Emission (150kHz~30MHz)	3.02 dB
Radiated Emission (30MHz~1000MHz)	4.90 dB
Radiated Emissions (1GHz~25GHz)	4.96 dB
Peak Output Power	0.51 dB
Power Spectral Density	0.51 dB
Conducted Spurious Emission	0.51 dB
6dB Bandwidth	70 Hz

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=1.96$.

4.6. Equipment Used during the Test

● Conducted Emission							
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	Shielded Room	Albatross projects	HTWE0114	N/A	N/A	2018/09/28	2023/09/27
●	EMI Test Receiver	R&S	HTWE0111	ESCI	101247	2019/10/26	2020/10/25
●	Artificial Mains	SCHWARZBECK	HTWE0113	NNLK 8121	573	2019/10/23	2020/10/22
●	Pulse Limiter	R&S	HTWE0033	ESH3-Z2	100499	2019/10/23	2020/10/22
●	RF Connection Cable	HUBER+SUHNER	HTWE0113-02	ENVIROFLE X_142	EF-NM-BNCM-2M	2019/10/23	2020/10/22
●	Test Software	R&S	N/A	ES-K1	N/A	N/A	N/A

● Radiated emission-6th test site							
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	Semi-Anechoic Chamber	Albatross projects	HTWE0127	SAC-3m-02	C11121	2018/09/30	2021/09/29
●	EMI Test Receiver	R&S	HTWE0099	ESCI	100900	2019/10/26	2020/10/25
●	Loop Antenna	R&S	HTWE0170	HFH2-Z2	100020	2018/04/02	2021/04/01
●	Ultra-Broadband Antenna	SCHWARZBECK	HTWE0123	VULB9163	538	2018/04/04	2021/04/03
●	Pre-Amplifier	SCHWARZBECK	HTWE0295	BBV 9742	N/A	2019/11/14	2020/11/13
●	RF Connection Cable	HUBER+SUHNER	HTWE0062-01	N/A	N/A	2019/08/21	2020/08/20
●	RF Connection Cable	HUBER+SUHNER	HTWE0062-02	SUCOFLEX 104	501184/4	2020/05/27	2021/05/26
●	Test Software	R&S	N/A	ES-K1	N/A	N/A	N/A

● Radiated emission-7th test site							
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	Semi-Anechoic Chamber	Albatross projects	HTWE0122	SAC-3m-01	N/A	2018/09/27	2021/09/26
●	Spectrum Analyzer	R&S	HTWE0098	FSP40	100597	2019/10/26	2020/10/25
●	Horn Antenna	SCHWARZBECK	HTWE0126	9120D	1011	2020/04/01	2023/03/31
●	Horn Antenna	SCHWARZBECK	HTWE0103	BBHA9170	25841	2018/10/11	2021/10/10
●	Broadband Horn Antenna	SCHWARZBECK	HTWE0103	BBHA9170	BBHA9170472	2018/10/11	2021/10/10
●	Pre-amplifier	CD	HTWE0071	PAP-0102	12004	2019/11/14	2020/11/13
●	Broadband Pre-amplifier	SCHWARZBECK	HTWE0201	BBV 9718	9718-248	2020/05/23	2021/05/22
●	RF Connection Cable	HUBER+SUHNER	HTWE0120-01	6m 18GHz S Serisa	N/A	2020/05/10	2021/05/09
●	RF Connection Cable	HUBER+SUHNER	HTWE0120-02	6m 3GHz RG Serisa	N/A	2020/05/10	2021/05/09
●	RF Connection Cable	HUBER+SUHNER	HTWE0120-03	6m 3GHz RG Serisa	N/A	2020/05/10	2021/05/09
●	RF Connection Cable	HUBER+SUHNER	HTWE0120-04	6m 3GHz RG Serisa	N/A	2020/05/10	2021/05/09
●	RF Connection Cable	HUBER+SUHNER	HTWE0121-01	6m 18GHz S Serisa	N/A	2020/05/10	2021/05/09
●	Test Software	Audix	N/A	E3	N/A	N/A	N/A

● RF Conducted Method						
Used	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	Signal and spectrum Analyzer	R&S	FSV40	100048	2019/10/26	2020/10/25
●	Spectrum Analyzer	Agilent	N9020A	MY50510187	2019/10/26	2020/10/25
●	Power Meter	Anritsu	ML249A	N/A	2019/10/26	2020/10/25
○	Radio communication tester	R&S	CMW500	137688-Lv	2019/10/26	2020/10/25

5. TEST CONDITIONS AND RESULTS

5.1. Antenna Requirement

Requirement

FCC CFR Title 47 Part 15 Subpart C 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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, 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.

FCC CFR Title 47 Part 15 Subpart C Section 15.247(c) (1)(i):

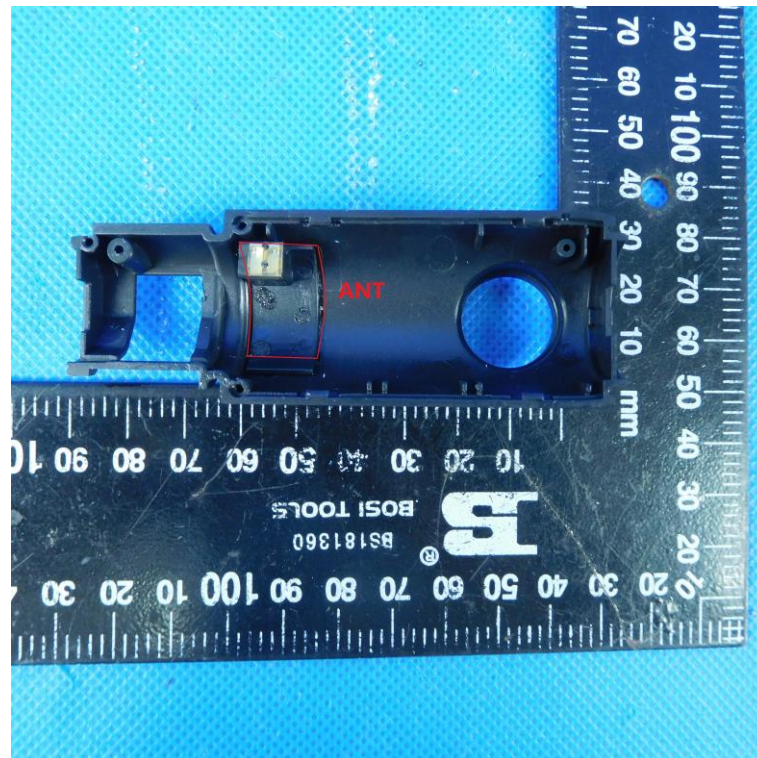
(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

TEST RESULT

Passed **Not Applicable**

The antenna type is a FPC antenna, the directional gain of the antenna less than 6 dBi, please refer to the below antenna photo.

|



5.2. AC Conducted Emission

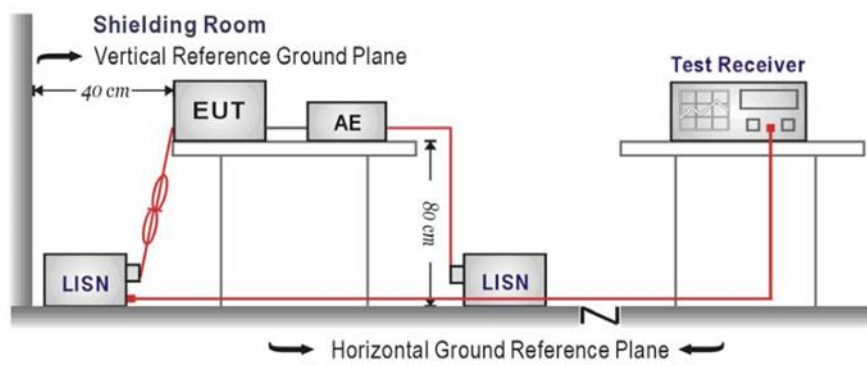
LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.207

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 CONFIGURATION



TEST PROCEDURE

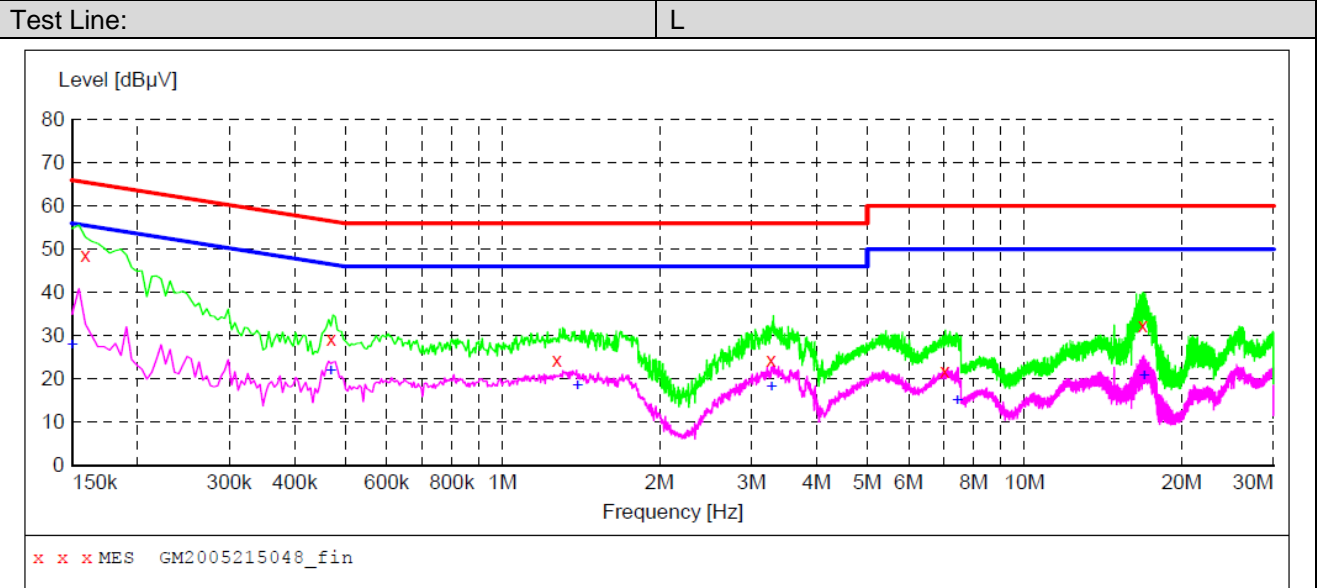
1. The EUT was setup according to ANSI C63.10 requirements.
2. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface.
3. The EUT and simulators are connected to the main power through a line impedances stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment.
4. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)
5. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.
6. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
7. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.
8. During the above scans, the emissions were maximized by cable manipulation.

TEST MODE:

Please refer to the clause 4.2

TEST RESULT

Passed Not Applicable



MEASUREMENT RESULT: "GM2005215048_fin"

5/21/2020 2:59PM

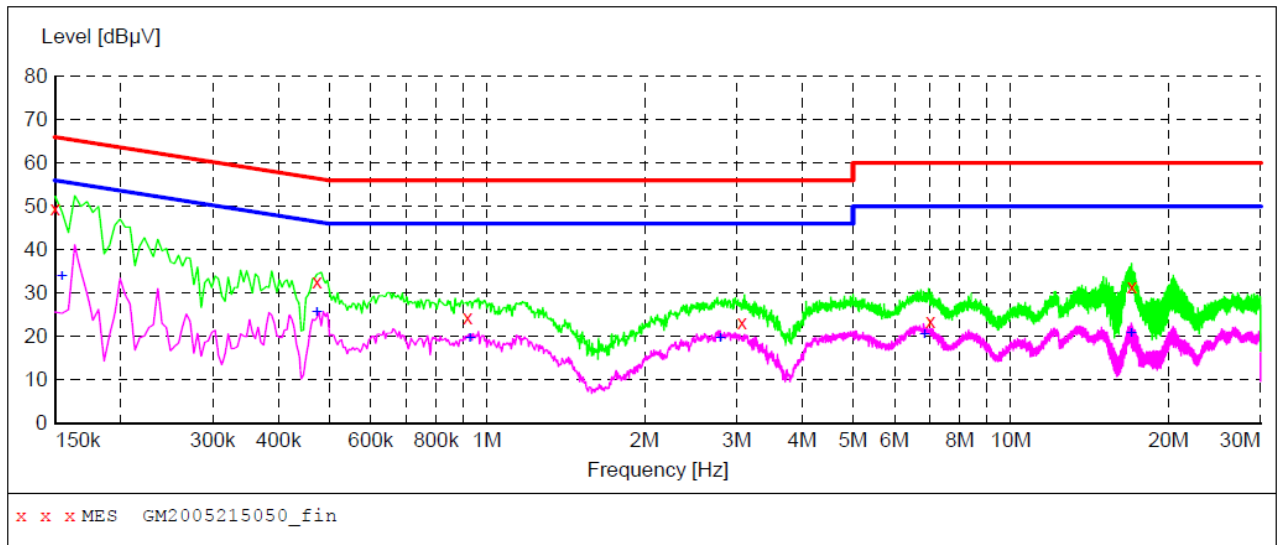
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.159000	48.70	10.0	66	16.8	QP	L1	GND
0.469500	29.30	10.1	57	27.2	QP	L1	GND
1.270500	24.40	10.1	56	31.6	QP	L1	GND
3.273000	24.30	10.2	56	31.7	QP	L1	GND
7.044000	21.80	10.3	60	38.2	QP	L1	GND
16.845000	32.50	10.5	60	27.5	QP	L1	GND

MEASUREMENT RESULT: "GM2005215048_fin2"

5/21/2020 2:59PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.150000	27.80	10.0	56	28.2	AV	L1	GND
0.469500	21.90	10.1	47	24.6	AV	L1	GND
1.392000	18.30	10.1	46	27.7	AV	L1	GND
3.282000	18.20	10.2	46	27.8	AV	L1	GND
7.440000	15.00	10.3	50	35.0	AV	L1	GND
16.971000	20.60	10.5	50	29.4	AV	L1	GND

Test Line: N



MEASUREMENT RESULT: "GM2005215050_fin"

5/21/2020 3:08PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.150000	49.60	10.0	66	16.4	QP	N	GND
0.474000	32.70	10.1	56	23.7	QP	N	GND
0.919500	24.40	10.1	56	31.6	QP	N	GND
3.070500	23.20	10.2	56	32.8	QP	N	GND
7.021500	23.60	10.3	60	36.4	QP	N	GND
17.025000	31.60	10.5	60	28.4	QP	N	GND

MEASUREMENT RESULT: "GM2005215050_fin2"

5/21/2020 3:08PM

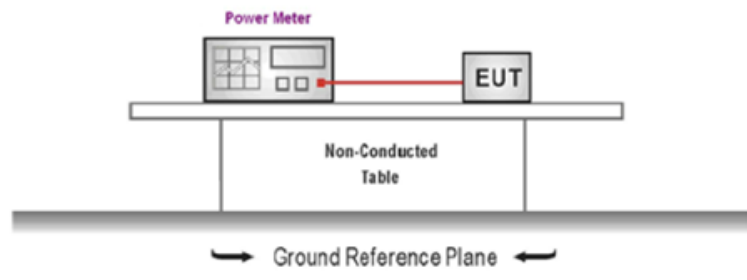
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.154500	33.70	10.0	56	22.1	AV	N	GND
0.474000	25.50	10.1	46	20.9	AV	N	GND
0.928500	19.60	10.1	46	26.4	AV	N	GND
2.787000	19.50	10.2	46	26.5	AV	N	GND
6.846000	20.30	10.2	50	29.7	AV	N	GND
16.971000	20.80	10.5	50	29.2	AV	N	GND

5.3. Peak Output Power

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (b)(3): 30dBm

TEST CONFIGURATION



TEST PROCEDURE

1. The EUT was tested according to ANSI C63.10 and KDB 558074 D01 requirements.
2. The maximum peak conducted output power may be measured using a broadband peak RF power meter.
3. 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.
4. Record the measurement data.

TEST MODE:

Please refer to the clause 4.2

TEST RESULT

Passed Not Applicable

TEST Data

Please refer to appendix A on the appendix report

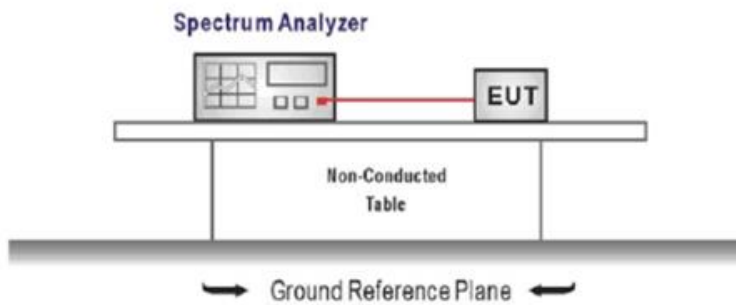
5.4. Power Spectral Density

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (e):

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

TEST CONFIGURATION



TEST PROCEDURE

1. Connect the antenna port(s) to the spectrum analyzer input,
2. Configure the spectrum analyzer as shown below:
Center frequency=DTS channel center frequency
Span =1.5 times the DTS bandwidth
RBW = 3 kHz ≤ RBW ≤ 100 kHz, VBW ≥ 3 × RBW
Sweep time = auto couple
Detector = peak
Trace mode = max hold
3. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter wave form on the spectrum analyzer.
4. Use the peak marker function to determine the maximum amplitude level within the RBW.
5. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

TEST MODE:

Please refer to the clause 4.2

TEST RESULT

Passed Not Applicable

TEST Data

Please refer to appendix B on the appendix report

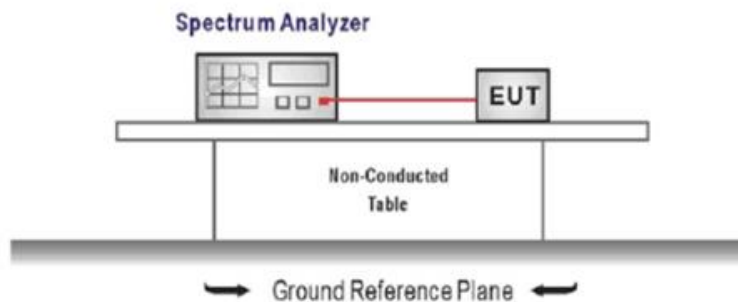
5.5. 6dB bandwidth

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (a)(2):

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

TEST CONFIGURATION



TEST PROCEDURE

1. Connect the antenna port(s) to the spectrum analyzer input.
2. Configure the spectrum analyzer as shown below (enter all losses between the transmitter output and the spectrum analyzer).
Center Frequency =DTS channel center frequency
Span=2 x DTS bandwidth
RBW = 100 kHz, VBW $\geq 3 \times$ RBW
Sweep time= auto couple
Detector = Peak
Trace mode = max hold
3. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter waveform on the spectrum analyzer.
4. 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, and record the pertinent measurements.

TEST MODE:

Please refer to the clause 4.2

TEST RESULT

Passed Not Applicable

TEST Data

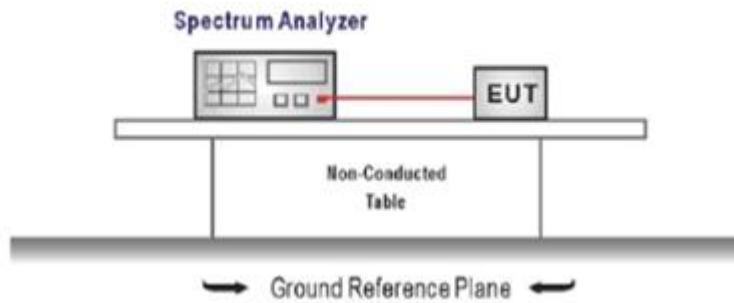
Please refer to appendix C on the appendix report

5.6. 99% Occupied Bandwidth

LIMIT

N/A

TEST CONFIGURATION



TEST PROCEDURE

1. Connect the antenna port(s) to the spectrum analyzer input.
2. Configure the spectrum analyzer as shown below (enter all losses between the transmitter output and the spectrum analyzer).
Center Frequency = channel center frequency
Span $\geq 1.5 \times \text{OBW}$
RBW = 1%~5%OBW
VBW $\geq 3 \times \text{RBW}$
Sweep time = auto couple
Detector = Peak
Trace mode = max hold
3. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter waveform on the spectrum analyzer.

TEST MODE:

Please refer to the clause 4.2

TEST RESULT

Passed Not Applicable

TEST Data

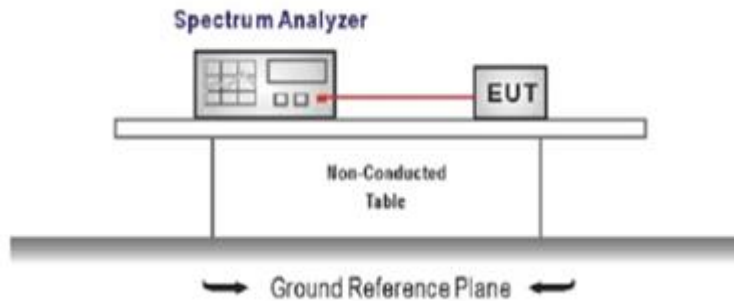
Please refer to appendix D on the appendix report

5.7. Duty Cycle

LIMIT

N/A

TEST CONFIGURATION



TEST PROCEDURE

1. The transmitter output was connected to the spectrum analyzer through an attenuator, the path loss was compensated to the results for each measurement.
2. Set to the maximum power setting and enable the EUT transmit continuously
3. Use the following spectrum analyzer settings:
Span=zero span, Frequency=centered channel, RBW= 1 MHz, VBW \geq RBW
Sweep=as necessary to capture the entire dwell time,
Detector function = peak, Trigger mode
4. Measure and record the duty cycle data

TEST MODE:

Please refer to the clause 4.2

TEST Data

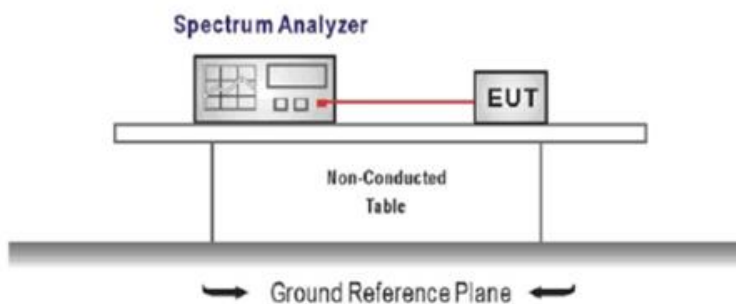
Please refer to appendix E on the appendix report

5.8. Conducted Band edge and Spurious Emission

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.

TEST CONFIGURATION



TEST PROCEDURE

1. Connect the antenna port(s) to the spectrum analyzer input.
2. Establish a reference level by using the following procedure
Center frequency=DTS channel center frequency
The span = 1.5 times the DTS bandwidth.
RBW = 100 kHz, VBW $\geq 3 \times$ RBW
Detector = peak, Sweep time = auto couple, Trace mode = max hold
Allow trace to fully stabilize
Use the peak marker function to determine the maximum PSD level

Note that the channel found to contain the maximum PSD level can be used to establish the reference level.

3. Emission level measurement
Set the center frequency and span to encompass frequency range to be measured
RBW = 100 kHz, VBW $\geq 3 \times$ RBW
Detector = peak, Sweep time = auto couple, Trace mode = max hold
Allow trace to fully stabilize
Use the peak marker function to determine the maximum amplitude level.
4. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter waveform on the spectrum analyzer.
5. Ensure that the amplitude of all unwanted emission outside of the authorized frequency band excluding restricted frequency bands) are attenuated by at least the minimum requirements specified (at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz). Report the three highest emission relative to the limit.

TEST MODE:

Please refer to the clause 4.2

TEST RESULT

Passed **Not Applicable**

TEST Data

Please refer to appendix F on the appendix report

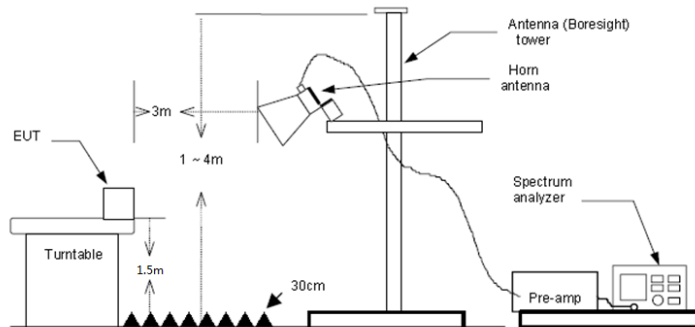
5.9. Radiated Band edge Emission

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (d):

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, Radiated Emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the Radiated Emissions limits specified in §15.209(a) (see §15.205(c)).

TEST CONFIGURATION



TEST PROCEDURE

1. The EUT was setup and tested according to ANSI C63.10 .
2. The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
3. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.
4. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10 on radiated measurement.
5. Use the following spectrum analyzer settings:
 - a) Span shall wide enough to fully capture the emission being measured
 - b) Set RBW=100kHz for <1GHz, VBW=3*RBW, Sweep time=auto, Detector=peak, Trace=max hold
 - c) Set RBW=1MHz, VBW=3MHz for >1GHz, Sweep time=auto, Detector=peak, Trace=max hold for Peak measurement

For average measurement:

 - VBW=10Hz, When duty cycle is no less than 98 percent
 - VBW \geq 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation, so refer to this clause 5.6 duty cycle.

TEST MODE:

Please refer to the clause 4.2

TEST RESULT

Passed Not Applicable

Note:

- 1) Level= Reading + Factor; Factor =Antenna Factor+ Cable Loss- Preamp Factor
- 2) Over Limit = Level - Limit
- 3) Average measurement was not performed if peak level is lower than average limit(54 dBuV/m).

Test channel					CH00				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Test value
2310.00	34.45	27.96	7.73	38.17	31.97	74.00	-42.03	Vertical	Peak
2390.03	44.29	27.72	7.84	37.97	41.88	74.00	-32.12	Vertical	Peak
2310.00	33.47	27.96	7.73	38.17	30.99	74.00	-43.01	Horizontal	Peak
2390.03	44.37	27.72	7.84	37.97	41.96	74.00	-32.04	Horizontal	Peak
2310.00	27.56	27.96	7.73	38.17	25.08	54.00	-28.92	Vertical	Average
2390.03	30.43	27.72	7.84	37.97	28.02	54.00	-25.98	Vertical	Average
2310.00	25.99	27.96	7.73	38.17	23.51	54.00	-30.49	Horizontal	Average
2390.03	30.74	27.72	7.84	37.97	28.33	54.00	-25.67	Horizontal	Average

Test channel					CH39				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Test value
2483.50	42.45	27.43	8.04	37.59	40.33	74.00	-33.67	Vertical	Peak
2500.00	33.46	27.40	8.08	37.38	31.56	74.00	-42.44	Vertical	Peak
2483.50	43.85	27.43	8.04	37.59	41.73	74.00	-32.27	Horizontal	Peak
2500.00	33.53	27.40	8.08	37.38	31.63	74.00	-42.37	Horizontal	Peak
2483.50	33.51	27.43	8.04	37.59	31.39	54.00	-22.61	Vertical	Average
2500.00	25.82	27.40	8.08	37.38	23.92	54.00	-30.08	Vertical	Average
2483.50	35.33	27.43	8.04	37.59	33.21	54.00	-20.79	Horizontal	Average
2500.00	25.67	27.40	8.08	37.38	23.77	54.00	-30.23	Horizontal	Average

5.10. Radiated Spurious Emission

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.209

Frequency	Limit (dBuV/m)	Value
0.009 MHz ~0.49 MHz	2400/F(kHz) @300m	Quasi-peak
0.49 MHz ~ 1.705 MHz	24000/F(kHz) @30m	Quasi-peak
1.705 MHz ~30 MHz	30 @30m	Quasi-peak

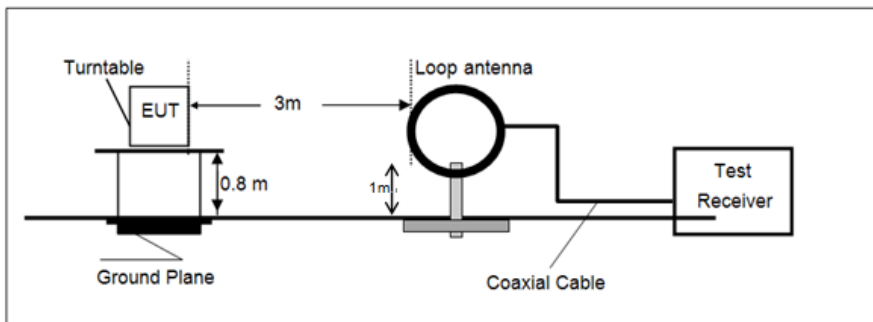
Note: Limit dBuV/m @3m = Limit dBuV/m @300m + 40*log(300/3)= Limit dBuV/m @300m +80,

Limit dBuV/m @3m = Limit dBuV/m @30m +40*log(30/3)= Limit dBuV/m @30m + 40.

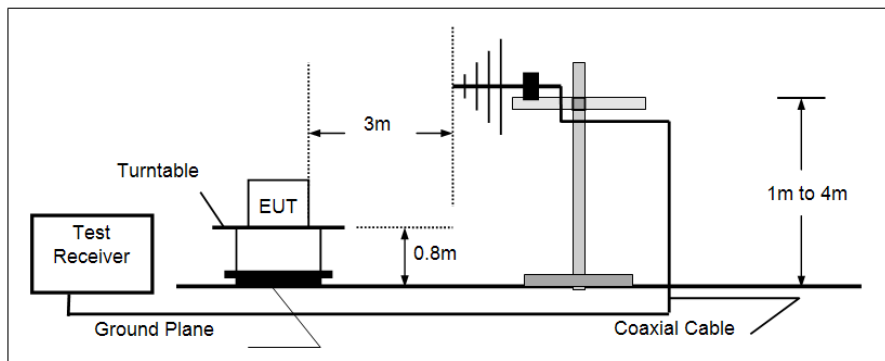
Frequency	Limit (dBuV/m @3m)	Value
30MHz~88MHz	40.00	Quasi-peak
88MHz~216MHz	43.50	Quasi-peak
216MHz~960MHz	46.00	Quasi-peak
960MHz~1GHz	54.00	Quasi-peak
Above 1GHz	54.00	Average
	74.00	Peak

TEST CONFIGURATION

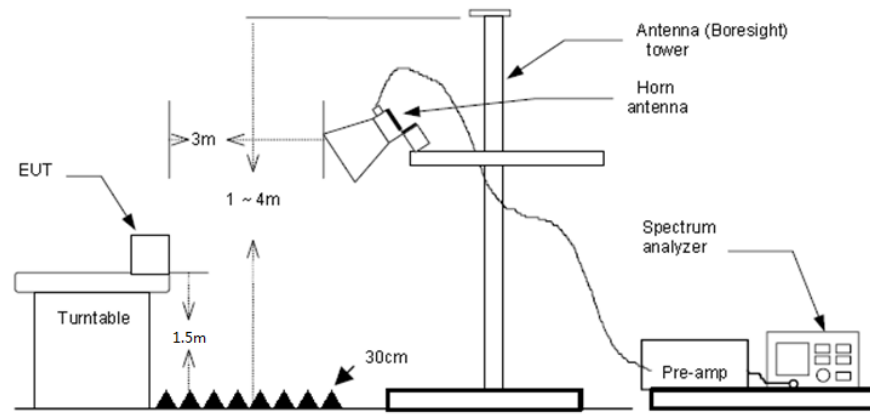
- 9 kHz ~ 30 MHz



- 30 MHz ~ 1 GHz



- Above 1 GHz



TEST PROCEDURE

1. The EUT was setup and tested according to ANSI C63.10 .
2. The EUT is placed on a turn table which is 0.8 meter above ground for below 1 GHz, and 1.5 m for above 1 GHz. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
3. The EUT was set 3 meters from the receiving antenna, which was mounted on the top of a variable height antenna tower.
4. For each suspected emission, 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 to comply with the guidelines.
5. Set to the maximum power setting and enable the EUT transmit continuously.
6. Use the following spectrum analyzer settings
 - a) Span shall wide enough to fully capture the emission being measured;
 - b) Below 1 GHz:
 - RBW=120 kHz, VBW=300 kHz, Sweep=auto, Detector function=peak, Trace=max hold;
 - 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.
 - c) Set RBW=1MHz, VBW=3MHz for >1GHz, Sweep time=auto, Detector=peak, Trace=max hold for Peak measurement
 - For average measurement:
 - VBW=10Hz, When duty cycle is no less than 98 percent
 - $VBW \geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation, so refer to this clause 5.6 duty cycle.

TEST MODE:

Please refer to the clause 4.2

TEST RESULT

Passed **Not Applicable**

Note:

- 1) Above 1GHz Final Level = Read level + Antenna Factor + Cable Loss – Preamplifier Factor
- 2) Over Limit = Level - Limit
- 3) Average measurement was not performed if peak level is lower than average limit(54 dBuV/m) for above 1GHz.

TEST DATA FOR 9 kHz ~ 30 MHz

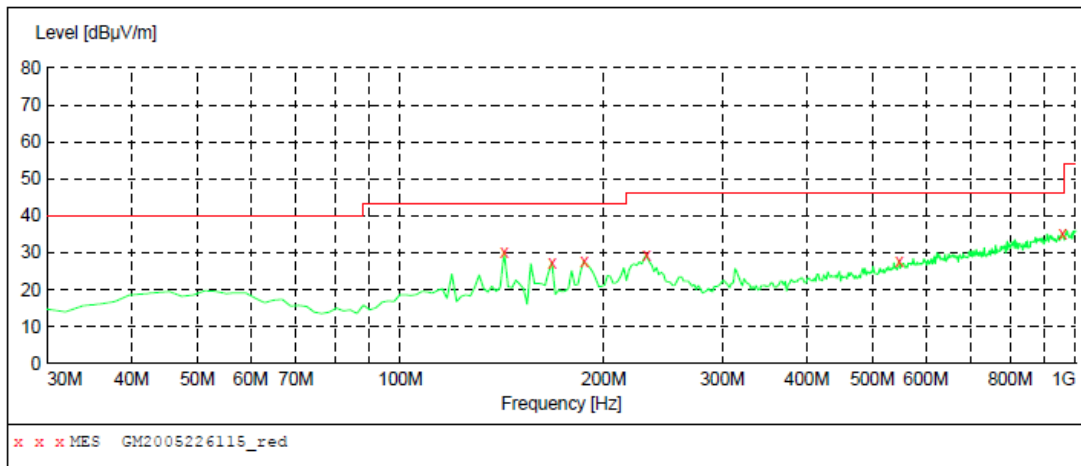
The EUT was pre-scanned this frequency band, found the radiated level 20dB lower than the limit, so don't show data on this report.

TEST DATA FOR 30 MHz ~ 1000 MHz

Have pre-scan all test channel, found CH39 which it was worst case, so only show the worst case's data on this report.

Polarization:

Horizontal



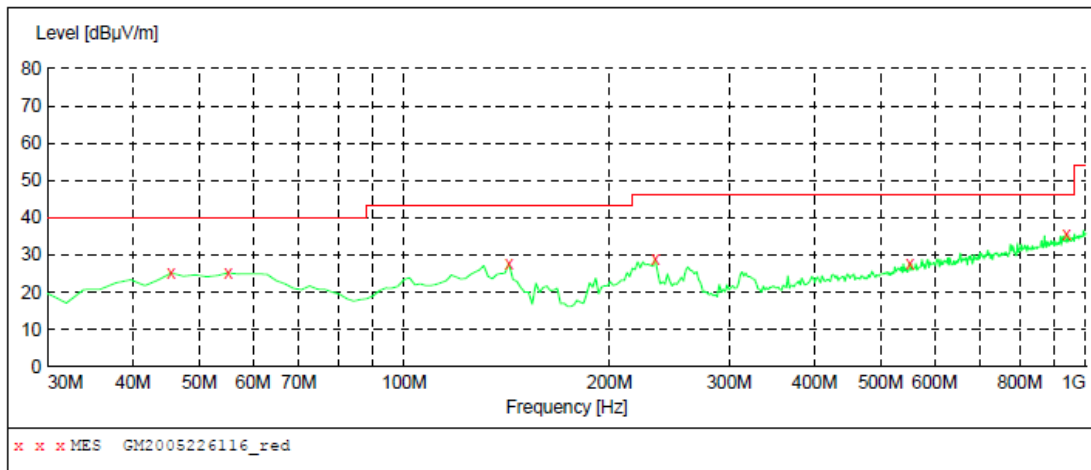
MEASUREMENT RESULT: "GM2005226115_red"

5/22/2020 11:29PM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
142.520000	30.10	-13.9	43.5	13.4	QP	100.0	305.00	HORIZONTAL
167.740000	27.30	-12.6	43.5	16.2	QP	100.0	254.00	HORIZONTAL
187.140000	27.50	-10.8	43.5	16.0	QP	100.0	360.00	HORIZONTAL
231.760000	29.50	-8.9	46.0	16.5	QP	100.0	345.00	HORIZONTAL
547.980000	27.70	-0.1	46.0	18.3	QP	100.0	242.00	HORIZONTAL
955.380000	35.20	8.1	46.0	10.8	QP	100.0	7.00	HORIZONTAL

Polarization:

Vertical



MEASUREMENT RESULT: "GM2005226116_red"

5/22/2020 11:31PM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
45.520000	25.20	-8.3	40.0	14.8	QP	100.0	38.00	VERTICAL
55.220000	25.30	-8.2	40.0	14.7	QP	100.0	153.00	VERTICAL
142.520000	27.60	-13.9	43.5	15.9	QP	100.0	320.00	VERTICAL
233.700000	28.80	-8.8	46.0	17.2	QP	100.0	360.00	VERTICAL
551.860000	27.70	0.1	46.0	18.3	QP	100.0	356.00	VERTICAL
935.980000	35.40	7.7	46.0	10.6	QP	100.0	3.00	VERTICAL

TEST DATA FOR 1 GHz ~ 25 GHz

Test channel					CH00				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Test value
1487.51	34.89	25.95	6.20	37.63	29.41	74.00	-44.59	Vertical	Peak
3216.84	34.20	28.83	9.48	37.38	35.13	74.00	-38.87	Vertical	Peak
5138.58	31.54	32.05	12.04	34.94	40.69	74.00	-33.31	Vertical	Peak
9228.06	30.78	38.91	15.94	35.95	49.68	74.00	-24.32	Vertical	Peak
1577.20	34.35	25.45	6.35	37.61	28.54	74.00	-45.46	Horizontal	Peak
3672.11	33.99	29.40	9.99	37.88	35.50	74.00	-38.50	Horizontal	Peak
5164.81	31.37	31.91	12.05	34.79	40.54	74.00	-33.46	Horizontal	Peak
8104.56	30.91	37.18	15.67	34.33	49.43	74.00	-24.57	Horizontal	Peak

Test channel					CH19				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Test value
1313.08	34.58	26.08	5.82	37.46	29.02	74.00	-44.98	Vertical	Peak
3454.49	33.88	28.92	9.77	37.88	34.69	74.00	-39.31	Vertical	Peak
5125.52	30.98	32.10	12.04	35.02	40.10	74.00	-33.90	Vertical	Peak
8042.90	30.79	37.19	15.67	34.37	49.28	74.00	-24.72	Vertical	Peak
1553.29	35.80	25.49	6.31	37.64	29.96	74.00	-44.04	Horizontal	Peak
3208.66	33.94	28.87	9.46	37.34	34.93	74.00	-39.07	Horizontal	Peak
5177.97	30.45	31.83	12.05	34.71	39.62	74.00	-34.38	Horizontal	Peak
8725.48	30.41	37.70	15.96	34.68	49.39	74.00	-24.61	Horizontal	Peak

Test channel					CH39				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Test value
1545.41	34.92	25.54	6.30	37.66	29.10	74.00	-44.90	Vertical	Peak
3607.26	33.60	29.40	10.00	37.86	35.14	74.00	-38.86	Vertical	Peak
5217.66	31.75	31.59	12.11	34.69	40.76	74.00	-33.24	Vertical	Peak
8002.06	30.96	37.10	15.52	34.42	49.16	74.00	-24.84	Vertical	Peak
1545.41	34.92	25.54	6.30	37.66	29.10	74.00	-44.90	Horizontal	Peak
3607.26	33.60	29.40	10.00	37.86	35.14	74.00	-38.86	Horizontal	Peak
5217.66	31.75	31.59	12.11	34.69	40.76	74.00	-33.24	Horizontal	Peak
9346.26	31.20	39.29	15.90	36.35	50.04	74.00	-23.96	Horizontal	Peak

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. The peak level is lower than average limit(54dBuV/m), this data is the too weak instrument of signal is unable to test.
3. The emission levels of other frequencies are very lower than the limit and not show in test report.

6. APPENDIX REPORT

APPENDIX REPORT

Project No.	SHT2005026001EW	Radio Specification	Bluetooth BLE
Test sample No.	YPHT20050260006	Model No.	SC100
Start test date	2020/5/27	Finish date	2020/5/27
Temperature	25°C	Humidity	50%
Test Engineer	Jinyue.Yan	Auditor	<i>William.wang</i>

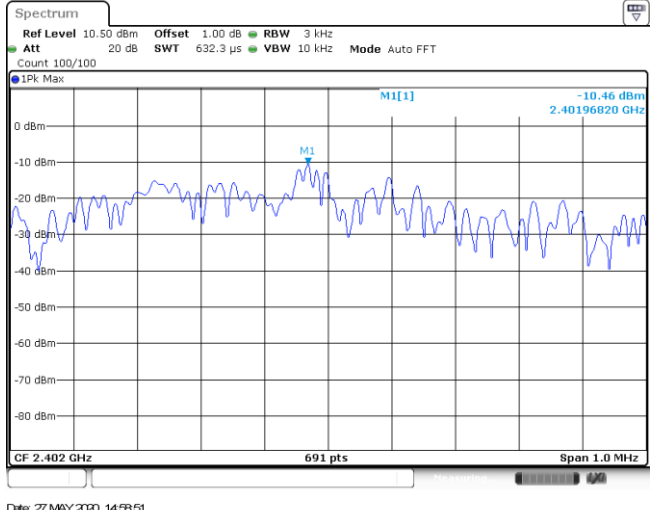
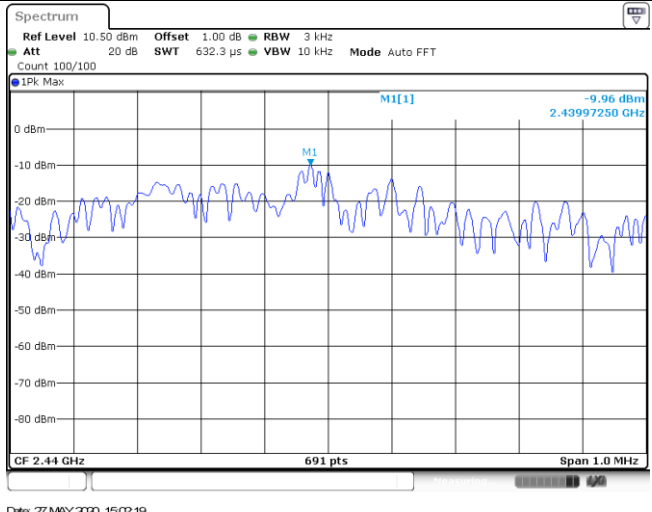
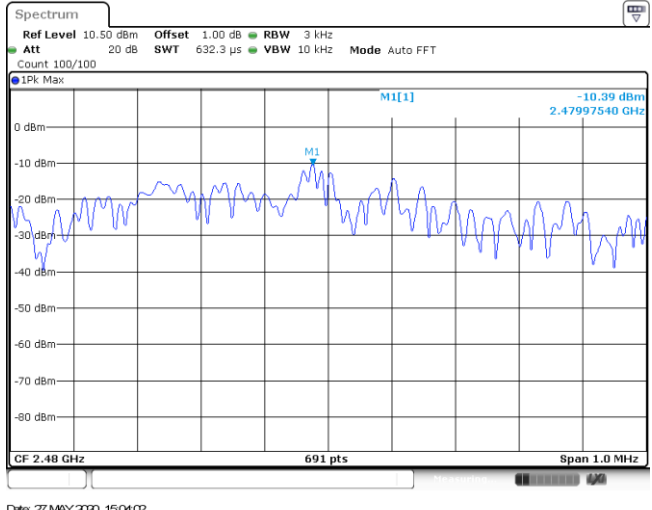
Appendix clause	Test item	Result
A	Peak Output Power	PASS
B	Power Spectral Density	PASS
C	6 dB Bandwidth	PASS
D	99% Occupied Bandwidth	PASS
E	Duty cycle	PASS
F	Band edge and Spurious Emissions (conducted)	PASS

Appendix A: Peak Output Power

Type	Channel	Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
BT-BLE	00	6.50	6.49	≤30.00	Pass
	19	7.05	7.04		
	39	6.60	6.58		

Appendix B: Power Spectral Density

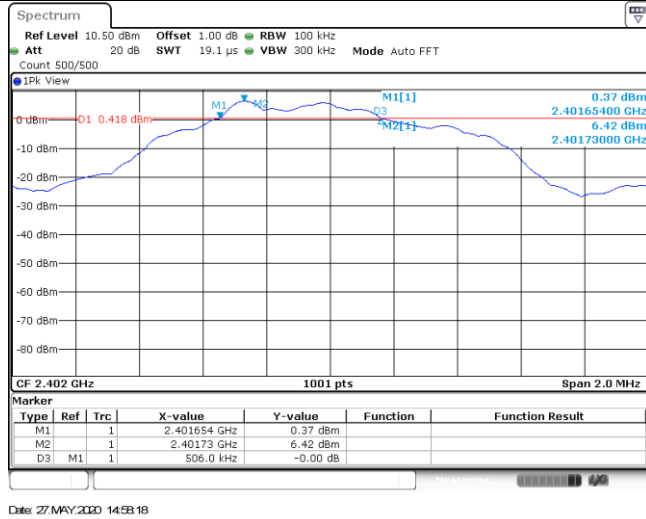
Type	Channel	Power Spectral Density(dBm/3KHz)	Limit (dBm/3KHz)	Result
BT-BLE	00	-10.46	≤8.00	Pass
	19	-9.96		
	39	-10.39		

CH00	 <p>Spectrum</p> <p>Ref Level 10.50 dBm Offset 1.00 dB RBW 3 kHz Att 20 dB SWT 632.3 μs VBW 10 kHz Mode Auto FFT Count 100/100</p> <p>IPK Max</p> <p>M1[1] -10.46 dBm 2.40196820 GHz</p> <p>CF 2.402 GHz 691 pts Span 1.0 MHz</p> <p>Date: 27 MAY 2020 14:58:51</p>
CH19	 <p>Spectrum</p> <p>Ref Level 10.50 dBm Offset 1.00 dB RBW 3 kHz Att 20 dB SWT 632.3 μs VBW 10 kHz Mode Auto FFT Count 100/100</p> <p>IPK Max</p> <p>M1[1] -9.96 dBm 2.43997250 GHz</p> <p>CF 2.44 GHz 691 pts Span 1.0 MHz</p> <p>Date: 27 MAY 2020 15:02:19</p>
CH39	 <p>Spectrum</p> <p>Ref Level 10.50 dBm Offset 1.00 dB RBW 3 kHz Att 20 dB SWT 632.3 μs VBW 10 kHz Mode Auto FFT Count 100/100</p> <p>IPK Max</p> <p>M1[1] -10.39 dBm 2.47997540 GHz</p> <p>CF 2.48 GHz 691 pts Span 1.0 MHz</p> <p>Date: 27 MAY 2020 15:04:02</p>

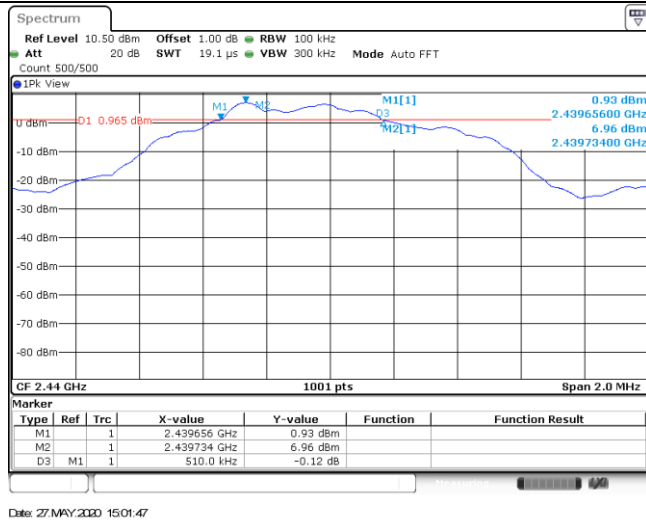
Appendix C: 6dB bandwidth

Type	Channel	6dB Bandwidth(kHz)	Limit (kHz)	Result
BT-BLE	00	506.00	≥500	Pass
	19	510.00		
	39	508.00		

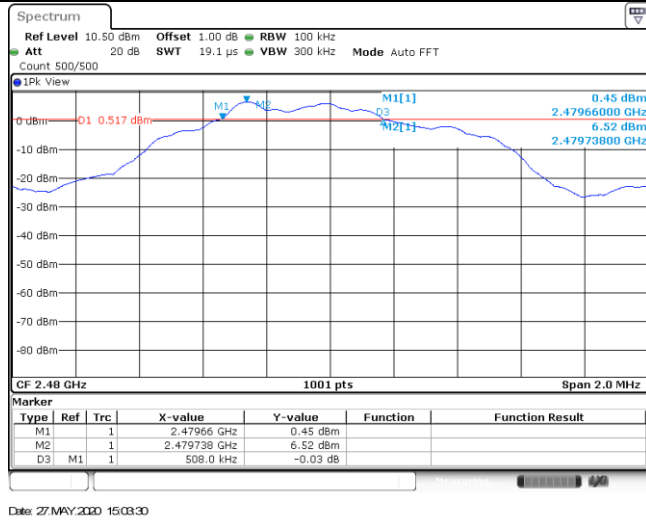
CH00



CH19

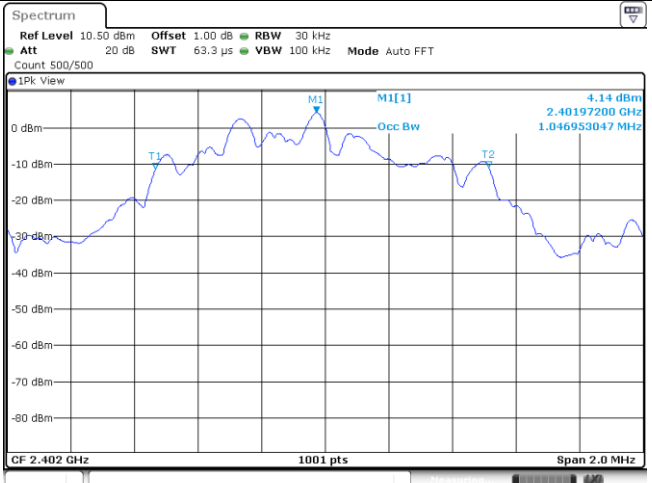
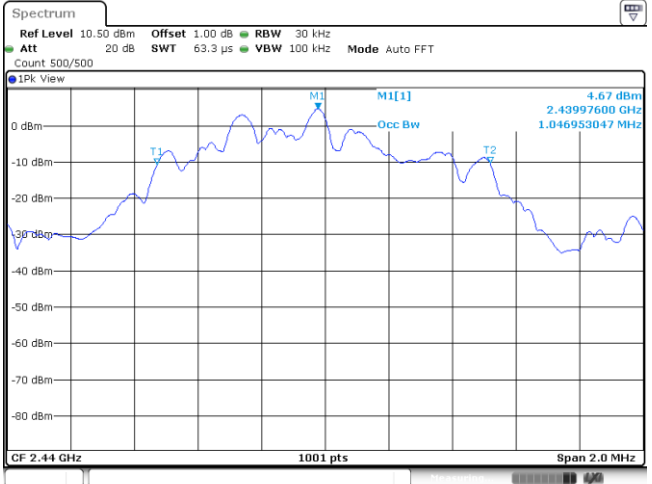
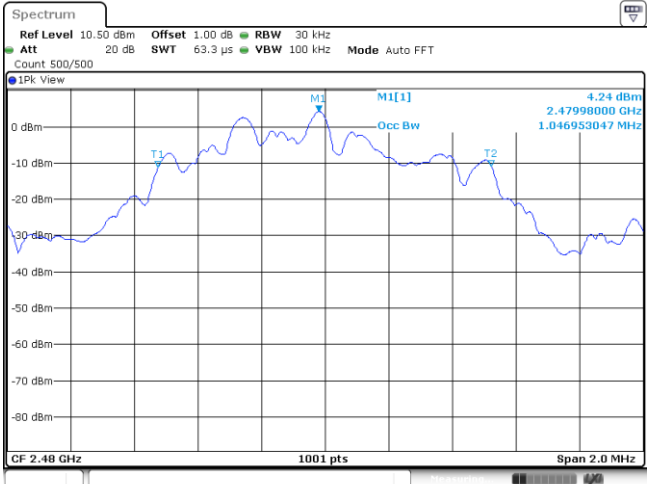


CH39



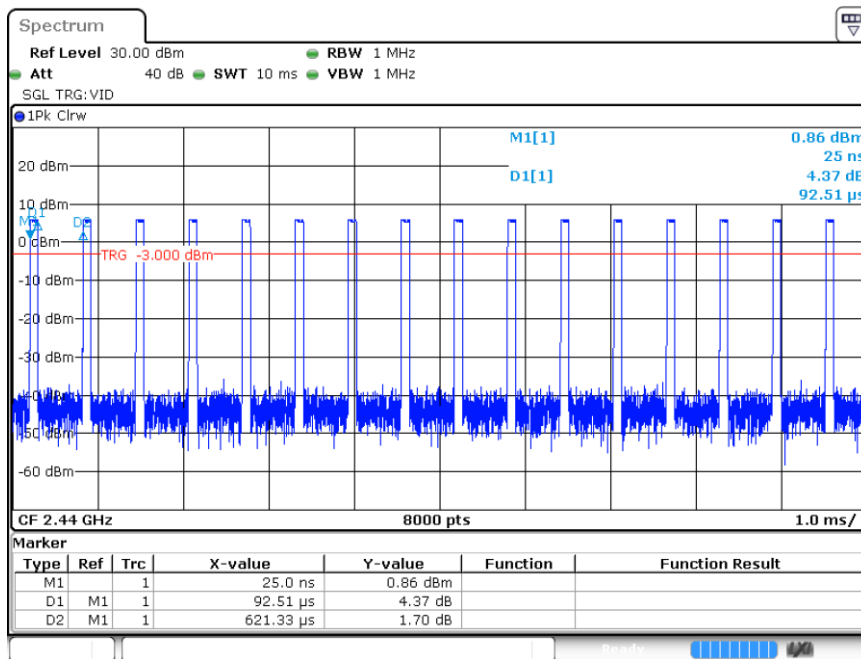
Appendix D: 99% Occupied Bandwidth

Type	Channel	99% Occupied Bandwidth(MHz)	Limit (kHz)	Result
BT-BLE	00	1.05	-	Pass
	19	1.05		
	39	1.05		

CH00	 <p>Spectrum Ref Level 10.50 dBm Offset 1.00 dB RBW 30 kHz Att 20 dB SWT 63.3 μs VBW 100 kHz Mode Auto FFT Count 500/500 IPK View M1 4.14 dBm M1[1] 2.40197200 GHz Occ Bw 1.046953047 MHz T1 T2 CF 2.402 GHz 1001 pts Span 2.0 MHz Date: 27 MAY 2020 14:58:27</p>
CH19	 <p>Spectrum Ref Level 10.50 dBm Offset 1.00 dB RBW 30 kHz Att 20 dB SWT 63.3 μs VBW 100 kHz Mode Auto FFT Count 500/500 IPK View M1 4.67 dBm M1[1] 2.43997600 GHz Occ Bw 1.046953047 MHz T1 T2 CF 2.44 GHz 1001 pts Span 2.0 MHz Date: 27 MAY 2020 15:01:55</p>
CH39	 <p>Spectrum Ref Level 10.50 dBm Offset 1.00 dB RBW 30 kHz Att 20 dB SWT 63.3 μs VBW 100 kHz Mode Auto FFT Count 500/500 IPK View M1 4.24 dBm M1[1] 2.47998000 GHz Occ Bw 1.046953047 MHz T1 T2 CF 2.48 GHz 1001 pts Span 2.0 MHz Date: 27 MAY 2020 15:03:39</p>

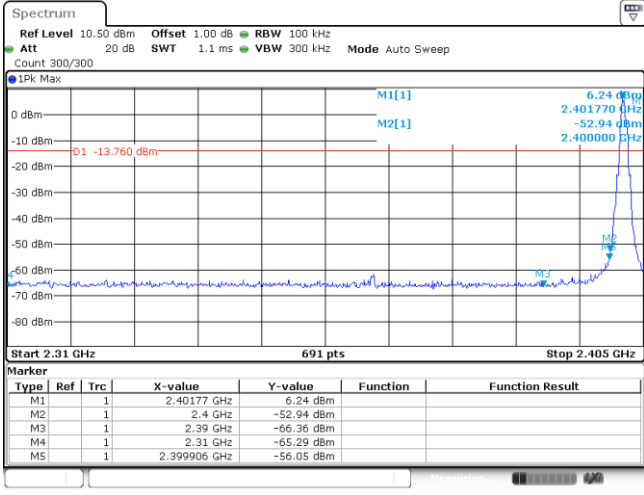
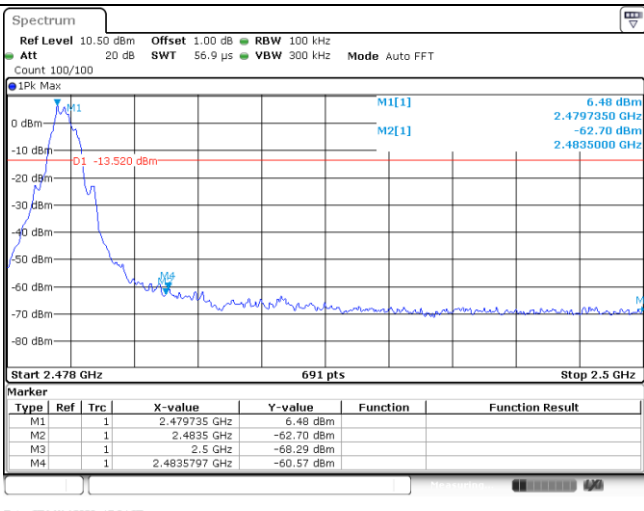
Appendix E: Duty cycle

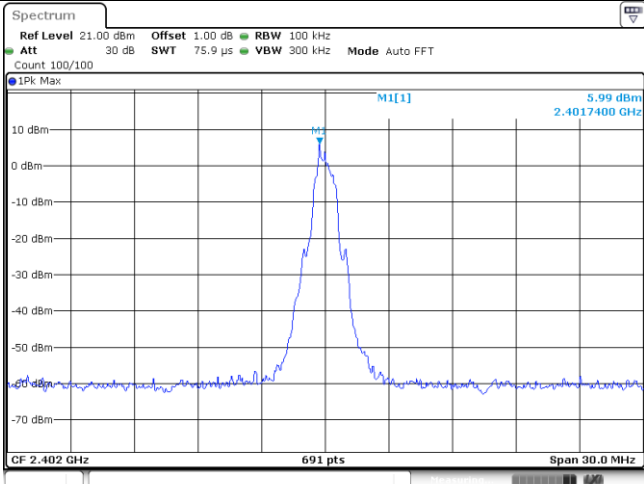
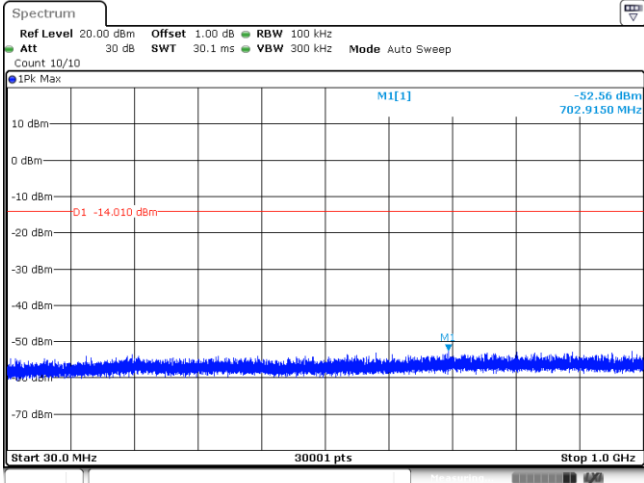
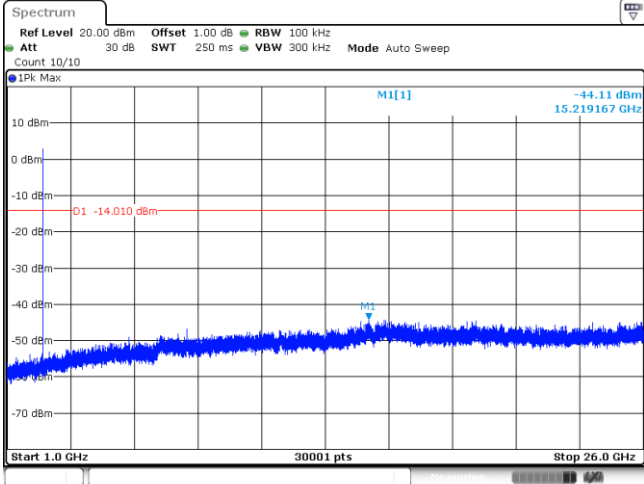
Test Frequency (MHz)	T _{on} time for single burst (ms)	T _{period} (ms)	Duty cycle	1/T _{on} time (kHz)
2440	0.09	0.62	14.5%	11.1



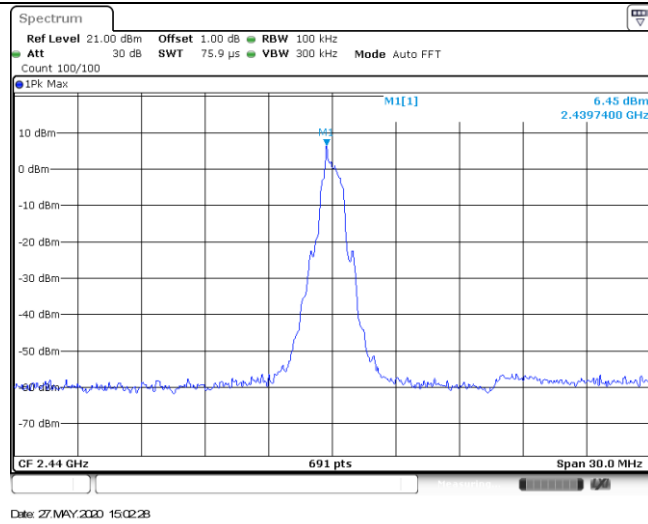
Date: 27.MAY.2020 15:01:16

Appendix F: Band edge and Spurious Emissions (conducted)

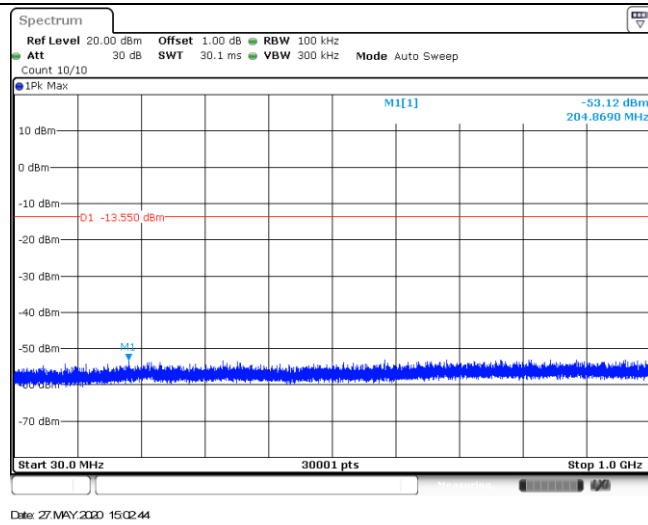
Test Item:	Band edge																																																				
<p style="text-align: center;">CH00</p>	 <p>Spectrum Ref Level 10.50 dBm Offset 1.00 dB RBW 100 kHz Att 20 dB SWT 1.1 ms VBW 300 kHz Mode Auto Sweep Count 300/300</p> <p>1Pk Max</p> <table border="1"> <thead> <tr> <th>Marker</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>M1[1]</td> <td>6.24 dBm</td> </tr> <tr> <td>M2[1]</td> <td>2.401770 GHz</td> </tr> <tr> <td>M3</td> <td>-52.94 dBm</td> </tr> <tr> <td>M4</td> <td>2.400000 GHz</td> </tr> </tbody> </table> <p>D1 -13.760 dBm</p> <p>Start 2.31 GHz 691 pts Stop 2.405 GHz</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>2.40177 GHz</td> <td>6.24 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-52.94 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-66.36 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-65.29 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.399906 GHz</td> <td>-56.05 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 27 MAY 2020 14:59:01</p>	Marker	Value	M1[1]	6.24 dBm	M2[1]	2.401770 GHz	M3	-52.94 dBm	M4	2.400000 GHz	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.40177 GHz	6.24 dBm			M2	1		2.4 GHz	-52.94 dBm			M3	1		2.39 GHz	-66.36 dBm			M4	1		2.31 GHz	-65.29 dBm			M5	1		2.399906 GHz	-56.05 dBm		
Marker	Value																																																				
M1[1]	6.24 dBm																																																				
M2[1]	2.401770 GHz																																																				
M3	-52.94 dBm																																																				
M4	2.400000 GHz																																																				
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																															
M1	1		2.40177 GHz	6.24 dBm																																																	
M2	1		2.4 GHz	-52.94 dBm																																																	
M3	1		2.39 GHz	-66.36 dBm																																																	
M4	1		2.31 GHz	-65.29 dBm																																																	
M5	1		2.399906 GHz	-56.05 dBm																																																	
<p style="text-align: center;">CH39</p>	 <p>Spectrum Ref Level 10.50 dBm Offset 1.00 dB RBW 100 kHz Att 20 dB SWT 56.9 μs VBW 300 kHz Mode Auto FFT Count 100/100</p> <p>1Pk Max</p> <table border="1"> <thead> <tr> <th>Marker</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>M1[1]</td> <td>6.48 dBm</td> </tr> <tr> <td>M2[1]</td> <td>2.479735 GHz</td> </tr> <tr> <td>M3</td> <td>-62.70 dBm</td> </tr> <tr> <td>M4</td> <td>2.4835000 GHz</td> </tr> </tbody> </table> <p>D1 -13.520 dBm</p> <p>Start 2.478 GHz 691 pts Stop 2.5 GHz</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>2.479735 GHz</td> <td>6.48 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4835 GHz</td> <td>-62.70 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.5 GHz</td> <td>-68.29 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.4835797 GHz</td> <td>-60.57 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 27 MAY 2020 15:04:37</p>	Marker	Value	M1[1]	6.48 dBm	M2[1]	2.479735 GHz	M3	-62.70 dBm	M4	2.4835000 GHz	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.479735 GHz	6.48 dBm			M2	1		2.4835 GHz	-62.70 dBm			M3	1		2.5 GHz	-68.29 dBm			M4	1		2.4835797 GHz	-60.57 dBm									
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Test Item:	SE
<p>CH00 Reference level</p>	 <p>CF 2.402 GHz 691 pts Span 30.0 MHz</p> <p>Date: 27.MAY.2020 14:59:03</p>
<p>CH00 30MHz~1000MHz</p>	 <p>Start 30.0 MHz 30001 pts Stop 1.0 GHz</p> <p>Date: 27.MAY.2020 14:59:24</p>
<p>CH00 1GHz~26GHz</p>	 <p>Start 1.0 GHz 30001 pts Stop 26.0 GHz</p> <p>Date: 27.MAY.2020 14:59:40</p>

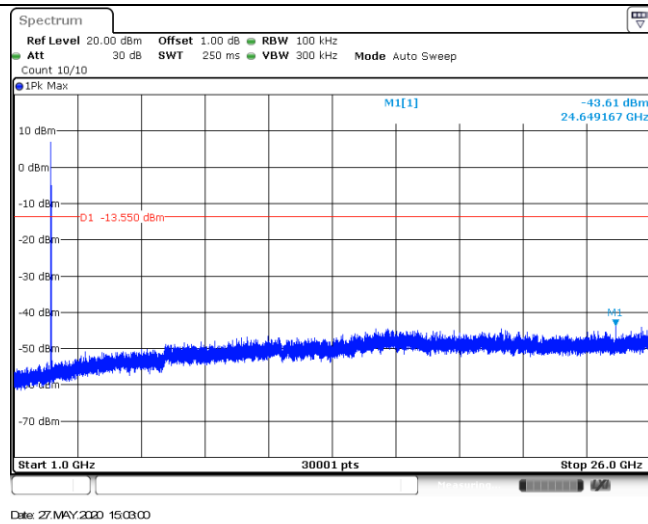
CH19
Reference level



CH19
30MHz~1000MHz



CH19
1GHz~26GHz



<p>CH39 Reference level</p>	<p>Spectrum Ref Level 21.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 75.9 μs VBW 300 kHz Mode Auto FFT Count 100/100 IPK Max 6.06 dBm 2.4797400 GHz M1[1] CF 2.48 GHz 691 pts Span 30.0 MHz Date: 27/MAY/2020 15:05:37</p>
<p>CH39 30MHz~1000MHz</p>	<p>Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 IPK Max -52.65 dBm 482.2470 MHz M1[1] D1 -13.940 dBm Start 30.0 MHz 30001 pts Stop 1.0 GHz Date: 27/MAY/2020 15:05:53</p>
<p>CH39 1GHz~26GHz</p>	<p>Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 IPK Max -44.14 dBm 16.443333 GHz M1[1] D1 -13.940 dBm Start 1.0 GHz 30001 pts Stop 26.0 GHz Date: 27/MAY/2020 15:06:09</p>

-----End of Report-----