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RADIO TEST REPORT

Report No.: STS1901197W02

Issued for

Timex Group USA Inc.

555 Christian Road 310 Middlebury Connecticut 06762
United States

Product Name:	Bluetooth Module
Brand Name:	Timex, Guess
Model Name:	M02Q
Series Model:	N/A
FCC ID:	EP9-TMXM02Q
IC ID:	3348A-TMXM02Q
HVIN:	SMA10T
Test Standard:	CFR47 FCC Part 15: Subpart C Section 15.247 CFR47 FCC Part 15: Subpart C Section 15.209 RSS-247 Issue 2 February 2017 RSS-Gen Issue 5 April 2018

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TEST RESULT CERTIFICATION

Applicant's name : **Timex Group USA Inc.**
 Address : 555 Christian Road 310 Middlebury Connecticut 06762 United States
Manufacture's Name : **Timex Group USA Inc.**
 Address : 555 Christian Road 310 Middlebury Connecticut 06762 United States

Product description

Product Name : Bluetooth Module
 Brand Name : Timex, Guess
 Model Name : M02Q
 Series Model..... : N/A

Test Standards : CFR47 FCC Part 15: Subpart C Section 15.247
 CFR47 FCC Part 15: Subpart C Section 15.209
 RSS-247 Issue 2 February 2017
 RSS-Gen Issue 5 April 2018

Test procedure : ANSI C63.10: 2013

This device described above has been tested by STS, the test results show that the equipment under test (EUT) is in compliance with the FCC/IC requirements. And it is applicable only to the tested sample identified in the report.

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Date of Test :
 Date (s) of performance of tests..... : 17 Jan. 2019 - 28 Jan. 2019
 Date of Issue..... : 03 June 2019
 Test Result..... : **Pass**

Testing Engineer : Chris Chen
 (Chris Chen)

Technical Manager : Sunday Hu
 (Sunday Hu)

Authorized Signatory : Vita Li
 (Vita Li)





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Revision History

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	03 June 2019	STS1901197W02	ALL	Initial Issue





1 SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

KDB 558074 D01 DTS Meas Guidance v04

FCC Part 15, Subpart C RSS-247 Issue 2			
Standard Section	Test Item	Judgment	Remark
FCC Part 15.247(d) RSS-247 Clause 3.3	Radiated Spurious Emission	PASS	

NOTE:

- 1) The limited modular(FCC ID: EP9-TMXM02Q, grant date: 03 June 2019; IC: 3348A-TMXM02Q, grant date: 03 June 2019) inserts to end-product(Model: M02Q), the additional test item Radiated Spurious Emission were performed on end-product.
- 2) All tests were performed according to the procedures in ANSI C63.10: 2013.





1.1 TEST FACTORY

Shenzhen STS Test Services Co., Ltd.
Add.: 1/F., Building B, Zhuoke Science Park, No.190, Chongqing Road, Fuyong Street, Bao'an District, Shenzhen, Guangdong, China

FCC Registration No.: 625569

IC Registration No.: 12108A

A2LA Certificate No.: 4338.01

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	All emissions, radiated 30-200MHz	$\pm 3.43\text{dB}$
2	All emissions, radiated 200MHz-1GHz	$\pm 3.57\text{dB}$
3	All emissions, radiated >1G	$\pm 4.13\text{dB}$



2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Product Name	Bluetooth Module	
Trade Name	Timex, Guess	
Model Name	M02Q	
Series Model	N/A	
Model Difference	N/A	
Product Description	The EUT is a Bluetooth Module which supports Bluetooth V5.0 Low Energy technology.	
	Operation Frequency:	2402 - 2480 MHz
	Modulation Type:	GFSK
	Bit Rate of Transmitter:	1 Mbps
	Number Of Channel:	40 channels
	Antenna Designation:	Please see Note 4
	Antenna Gain (dBi):	-1.5 dBi
	Duty Cycle:	>98%
Channel List	Please refer to the Note 2.	
Power Rating	Input DC 3.7V	
Hardware version	N/A	
Software version	N/A	
Radio Hardware version	N/A	
Radio Software version	N/A	
Test Software	N/A	
Connecting I/O Port(s)	Please refer to the User's Manual	



Note:

- 1 For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

2

RF Channel and Frequency of BLE			
RF Channel	Freq.(MHz)	RF Channel	Freq.(MHz)
00	2402	20	2442
01	2404	21	2444
02	2406	22	2446
03	2408	23	2448
04	2410	24	2450
05	2402	25	2452
06	2414	26	2454
07	2416	27	2456
08	2418	28	2458
09	2420	29	2460
10	2422	30	2480
11	2424	31	2464
12	2426	32	2466
13	2428	33	2468
14	2430	34	2470
15	2432	35	2472
16	2434	36	2474
17	2436	37	2476
18	2438	38	2478
19	2440	39	2480

3 Note:

- 1) In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test;
- 2) Test frequencies are low channel: 2402 MHz, middle channel: 2442 MHz and high channel: 2480 MHz.

4

Ant	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	N/A	M02Q	Integral antenna	N/A	-1.5	BLE Antenna



2.2 DESCRIPTION OF TEST MODES

Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Worst Mode	Description	Data Rate
Mode 1	TX BLE CH00	1 Mbps
Mode 2	TX BLE CH20	1 Mbps
Mode 3	TX BLE CH39	1 Mbps
Mode 4	Normal operating mode	/

Note:

- 1) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported
- 2) We have be tested for all available U.S. voltage and frequencies(For 120V,50/60Hz and 240V, 50/60Hz) for which the device is capable of operation , and the worst case of 120V/60Hz is shown in the report
- 3) Controlled using a bespoke application on the laptop PC supplied by the customer. The application was used to enable a continuous transmission mode and to select the test channels, data rates and modulation schemes as required.



2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiation Test Set





2.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Serial No.	Note
E-2	Notebook	HP	500-320cx	N/A	N/A
E-3	Notebook Adapter	HP	HSTNN-CA15	N/A	N/A
E-4	Adapter	SZTY	TPA-46050100VU	N/A	N/A
E-5	PHONE	MI	MI6	N/A	N/A

Item	Shielded Type	Ferrite Core	Length	Note
C-1	USB Cable	NO	100cm	N/A
C-2	DC Cable	NO	110cm	N/A

Note:

- 1) The support equipment was authorized by Declaration of Confirmation.
- 2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- 3) “YES” is means “shielded” “with core”; “NO” is means “unshielded” “without core”.



2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test Equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
Test Receiver	R&S	ESCI	101427	2018.10.13	2019.10.12
Signal Analyzer	Agilent	N9020A	MY51110105	2018.03.08	2019.03.07
Active loop Antenna	ZHINAN	ZN30900C	16035	2018.03.11	2021.03.10
Bilog Antenna	TESEQ	CBL6111D	34678	2017.11.02	2020.11.01
Horn Antenna	SCHWARZBECK	BBHA 9120D(1201)	9120D-1343	2018.10.19	2021.10.18
SHF-EHF Horn Antenna (15G-40GHz)	A-INFO	LB-180400-KF	J211020657	2018.03.11	2019.03.10
Pre-mpifier(0.1M- 3GHz)	EM	EM330	060665	2018.10.13	2019.10.12
PreAmplifier (1G- 18GHz)	SKET	LNPA-01018G- 45	SK2018080901	2018.10.13	2019.10.12
Temperature & Humidity	HH660	Mieo	N/A	2018.10.11	2019.10.10
turn table	EM	SC100_1	60531	N/A	N/A
Antenna mast	EM	SC100	N/A	N/A	N/A



3 EMC EMISSION TEST

3.1 RADIATED SPURIOUS EMISSION MEASUREMENT

3.1.1 RADIATED EMISSION LIMITS

in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the Restricted band specified on Part15.205(a)&209(a) and RSS-247 Issue 2 limit in the table and according to ANSI C63.10-2013 below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT (0.009MHz - 1000MHz)

Frequencies (MHz)	Field Strength (micorvolts/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
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (1000MHz-25GHz)

FREQUENCY (MHz)	(dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

For Radiated Emission

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak/AV
Start Frequency	1000 MHz(Peak/AV)
Stop Frequency	10th carrier hamonic(Peak/AV)
RB / VB (emission in restricted band)	1 MHz /3MHz

For Band edge

Spectrum Parameter	Setting
Detector	Peak/AV
Start/Stop Frequency	Lower Band Edge: 2300 to 2422 MHz Upper Band Edge: 2452 to 2500 MHz
RB / VB (emission in restricted band)	1 MHz /3MHz



Receiver Parameter	Setting
Start ~ Stop Frequency	9kHz~90kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	90kHz~110kHz / RB 200Hz for QP
Start ~ Stop Frequency	110kHz~490kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	490kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

3.1.2 TEST PROCEDURE

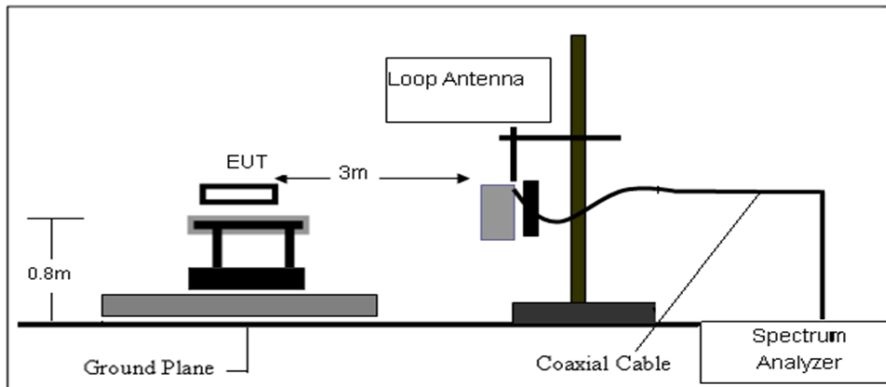
- a) The measuring distance of at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b) The EUT was placed on the top of a rotating table 0.8 meters (above 1GHz is 1.5 m) above the ground at a 3 meter anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c) The height of the equipment shall be 0.8 m (above 1GHz is 1.5 m); the height of the test antenna shall vary between 1 m to 4 m. Horizontal and vertical polarizations of the antenna are set to make the measurement
- d) 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.
- e) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f) For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

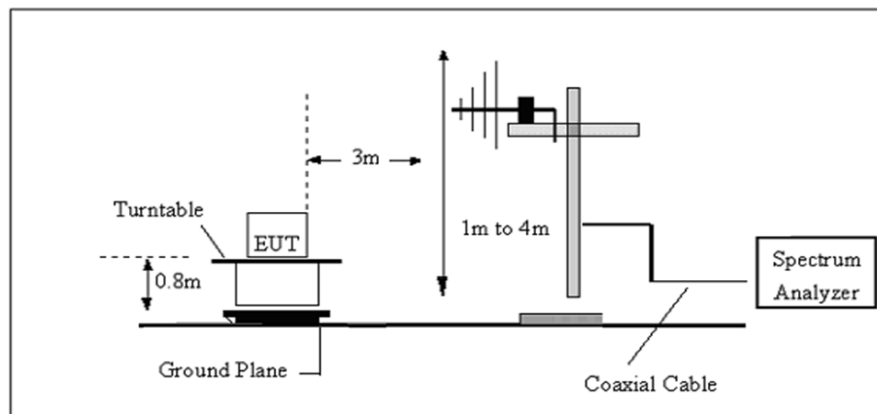
Both horizontal and vertical antenna polarities were tested and performed test to three orthogonal axis. The worst case emissions were reported

3.1.3 TEST SETUP

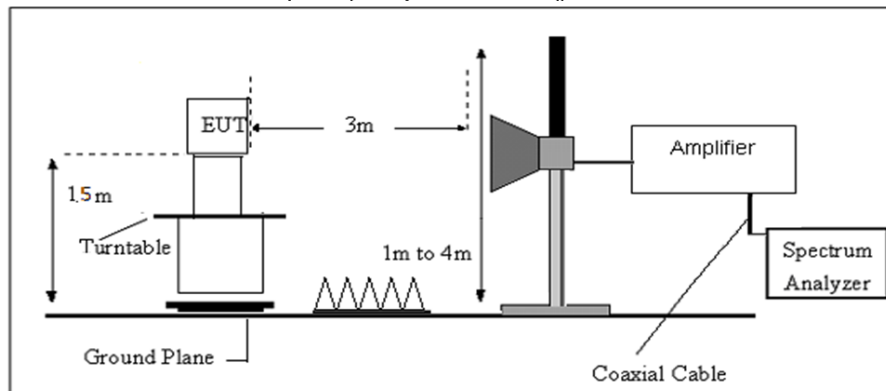
a) Radiated Emission Test-Up Frequency Below 30MHz



b) Radiated Emission Test-Up Frequency 30MHz~1GHz



c) Radiated Emission Test-Up Frequency Above 1GHz



3.1.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



3.1.5 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

For example

Frequency (MHz)	FS (dB μ V/m)	RA (dB μ V/m)	AF (dB)	CL (dB)	AG (dB)	Factor (dB)
300	40	58.1	12.2	1.6	31.9	-18.1

$$\text{Factor} = \text{AF} + \text{CL} - \text{AG}$$

3.1.6 TEST RESULT

9KHz-30MHz

Temperature:	24.7 °C	Relative Humidity:	58%
Test Voltage :	DC 3.7V From Battery	Polarization :	--
Test Mode :	TX Mode		

Freq. (MHz)	Reading (dBuV/m)	Limit (dBuV/m)	Margin (dB)	State P/F	Test Result
--	--	--	--	--	PASS
--	--	--	--	--	PASS

Note:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor = $40 \log(\text{specific distance}/\text{test distance})(\text{dB})$;

Limit line = specific limits(dBuV) + distance extrapolation factor.



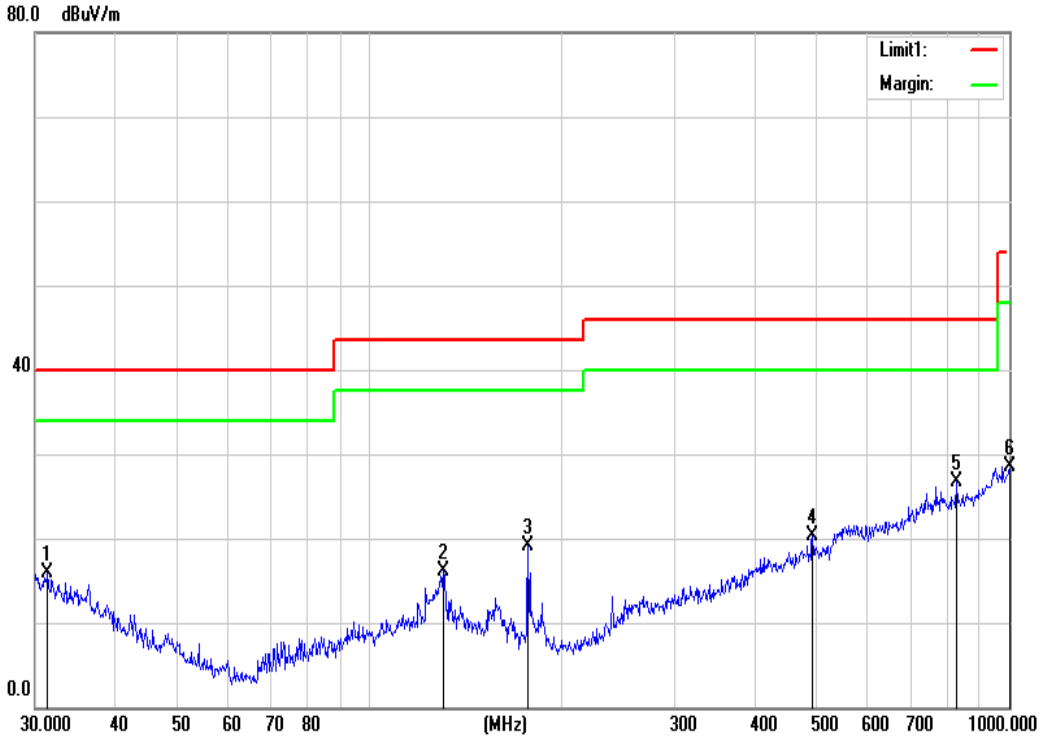
(30MHz - 1000MHz)

Temperature:	24.7 °C	Relative Humidity:	58%
Test Voltage :	DC 3.7V	Polarization :	Horizontal
Test Mode:	Mode 1/2/3 (Mode 1 worst case)		

Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
31.3992	27.87	-11.91	15.96	40.00	-24.04	QP
130.3790	33.75	-17.55	16.20	43.50	-27.30	QP
176.8878	38.52	-19.41	19.11	43.50	-24.39	QP
492.4685	29.40	-9.09	20.31	46.00	-25.69	QP
827.4934	29.86	-3.23	26.63	46.00	-19.37	QP
1000.0000	28.57	-0.07	28.50	54.00	-25.50	QP

Remark:

1. Margin = Result (Result =Reading + Factor)-Limit



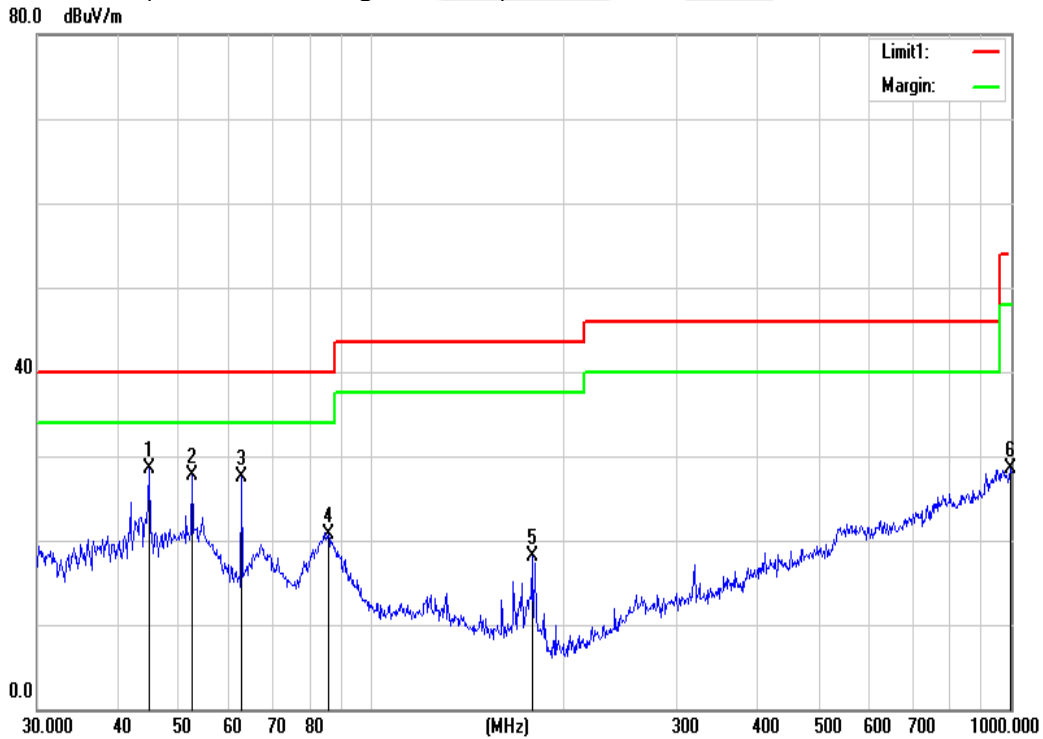


Temperature:	24.7 °C	Relative Humidity:	58%
Test Voltage :	DC 3.7V	Polarization :	Vertical
Test Mode:	Mode 1/2/3 (Mode 1 worst case)		

Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
44.9006	47.42	-18.86	28.56	40.00	-11.44	QP
52.3912	49.90	-22.16	27.74	40.00	-12.26	QP
62.6507	51.75	-24.28	27.47	40.00	-12.53	QP
85.5977	41.92	-21.30	20.62	40.00	-19.38	QP
178.1327	37.55	-19.42	18.13	43.50	-25.37	QP
996.4996	28.66	-0.09	28.57	54.00	-25.43	QP

Remark:.

1. Margin = Result (Result =Reading + Factor)–Limit

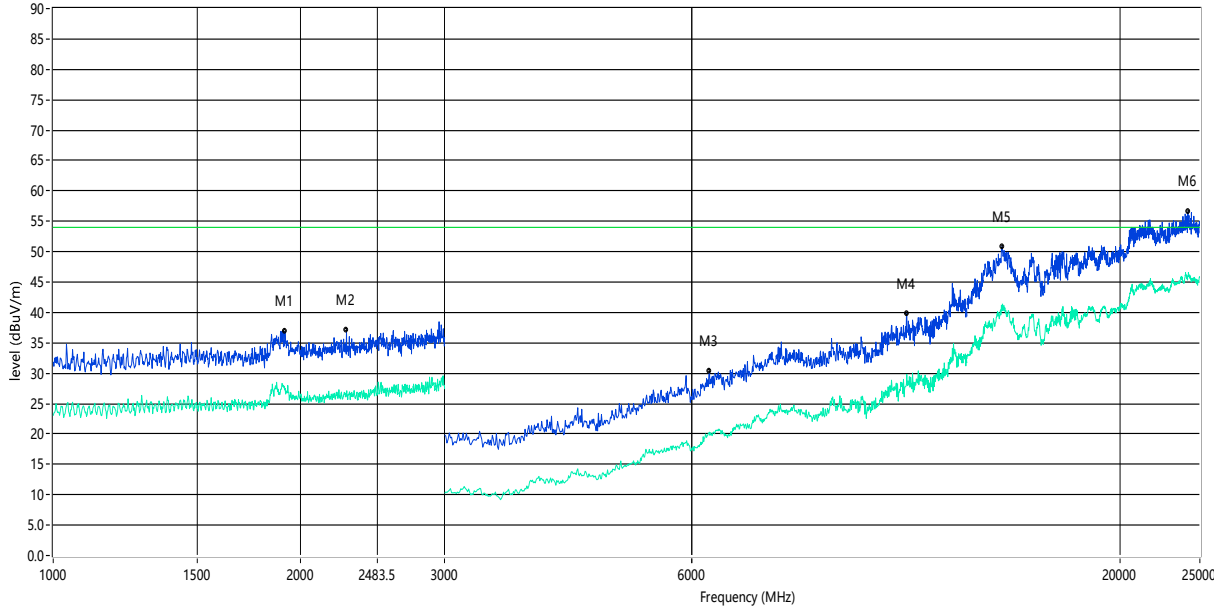




(1000MHz-25GHz) Restricted band and Spurious emission Requirements

GFSK Low Channel
Horizontal

RSE_FCC Test Case_FCC 15C 1GHz-25GHz

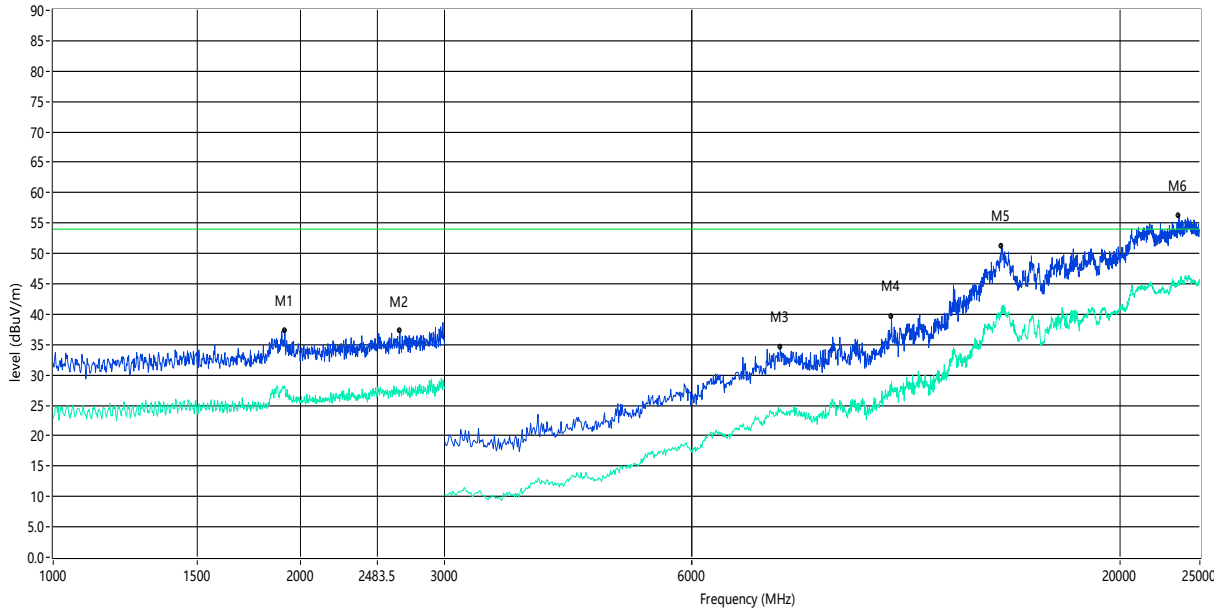


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	OverLimit (dB)	Detector	ANT	Verdict
1**	1916.000	27.23	-0.59	54.0	-26.77	AV	V	Pass
1	1916.000	36.87	-0.59	74.0	-37.13	Peak	V	Pass
2**	2278.000	26.62	-1.75	54.0	-27.38	AV	V	Pass
2	2278.000	37.14	-1.75	74.0	-36.86	Peak	V	Pass
3**	6310.000	20.29	5.64	54.0	-33.71	AV	V	Pass
3	6310.000	30.35	5.64	74.0	-43.65	Peak	V	Pass
4**	10980.000	29.80	15.71	54.0	-24.20	AV	V	Pass
4	10980.000	39.80	15.71	74.0	-34.20	Peak	V	Pass
5**	14343.999	40.32	24.17	54.0	-13.68	AV	V	Pass
5	14343.999	50.83	24.17	74.0	-23.17	Peak	V	Pass
6**	24171.999	46.08	23.25	54.0	-7.92	AV	V	Pass
6	24171.999	56.52	23.25	74.0	-17.48	Peak	V	Pass



Vertical

RSE_FCC Test Case_FCC 15C 1GHz-25GHz

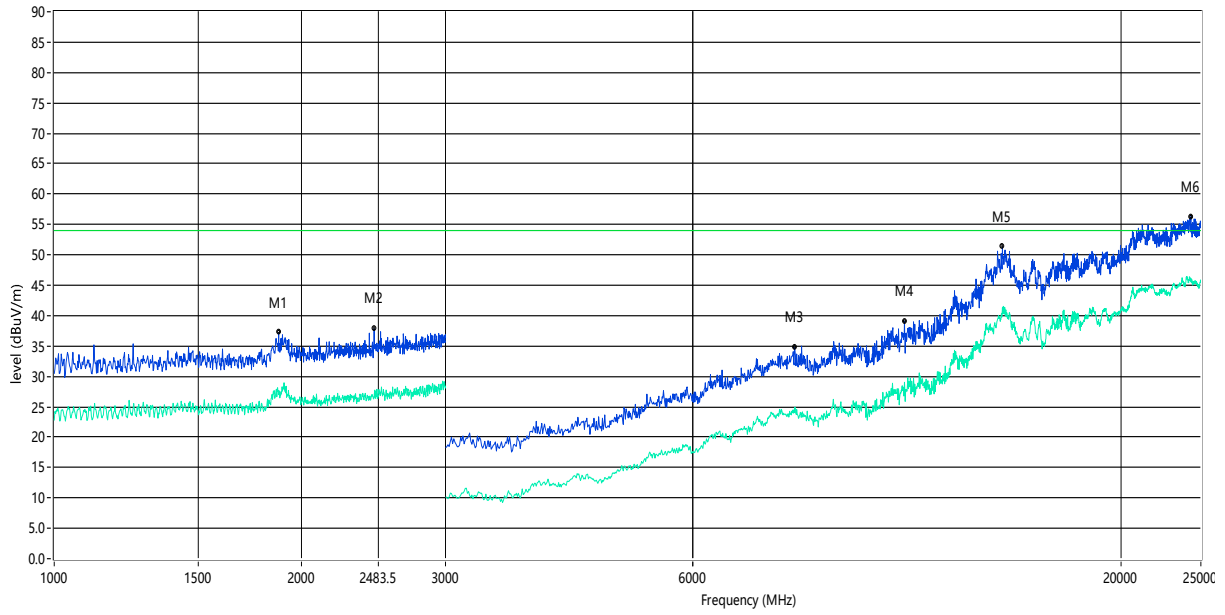


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	ANT	Verdict
1**	1916.000	27.86	-0.59	54.0	-26.14	AV	V	Pass
1	1916.000	37.36	-0.59	74.0	-36.64	Peak	V	Pass
2**	2646.000	27.45	-0.10	54.0	-26.55	AV	V	Pass
2	2646.000	37.18	-0.10	74.0	-36.82	Peak	V	Pass
3**	7700.000	24.35	10.88	54.0	-29.65	AV	V	Pass
3	7700.000	34.61	10.88	74.0	-39.39	Peak	V	Pass
4**	10520.001	28.90	15.39	54.0	-25.10	AV	V	Pass
4	10520.001	39.53	15.39	74.0	-34.47	Peak	V	Pass
5**	14320.000	41.20	24.92	54.0	-12.80	AV	V	Pass
5	14320.000	51.12	24.92	74.0	-22.88	Peak	V	Pass
6**	23572.001	45.02	23.44	54.0	-8.98	AV	V	Pass
6	23572.001	56.26	23.44	74.0	-17.74	Peak	V	Pass



GFSK Mid Channel Horizontal

RSE_FCC Test Case_FCC 15C 1GHz-25GHz

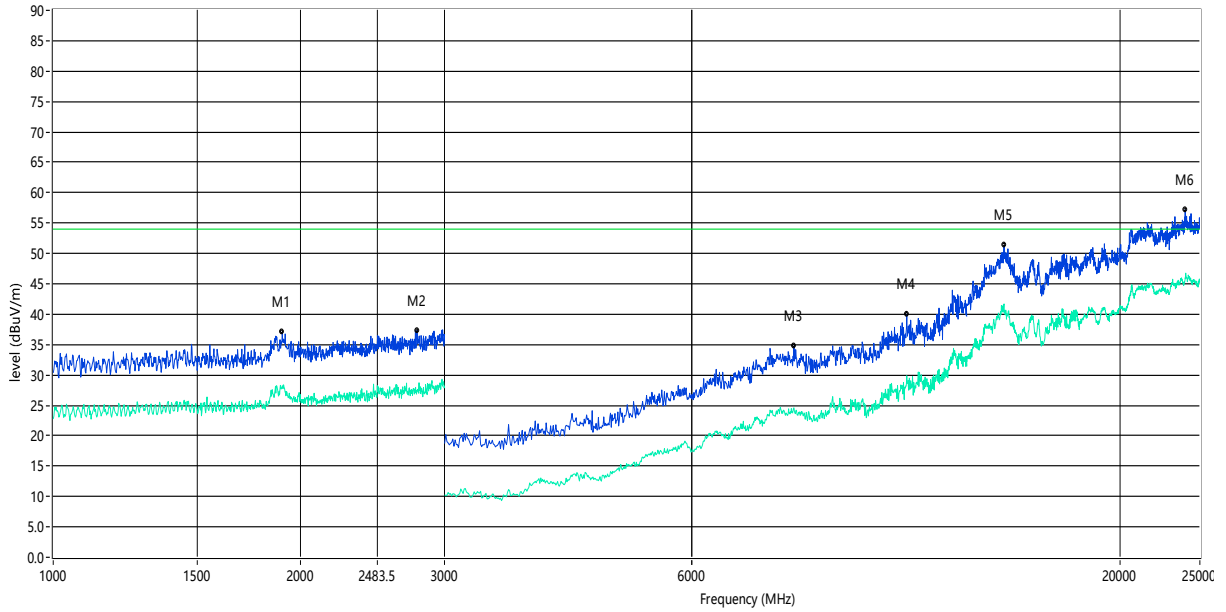


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	OverLimit (dB)	Detector	ANT	Verdict
1**	1878.000	26.99	-0.89	54.0	-27.01	AV	V	Pass
1	1878.000	37.18	-0.89	74.0	-36.82	Peak	V	Pass
2**	2454.000	26.40	-0.74	54.0	-27.60	AV	V	Pass
2	2454.000	37.86	-0.74	74.0	-36.14	Peak	V	Pass
3**	7990.000	24.05	10.65	54.0	-29.95	AV	V	Pass
3	7990.000	34.77	10.65	74.0	-39.23	Peak	V	Pass
4**	10880.000	29.03	14.94	54.0	-24.97	AV	V	Pass
4	10880.000	39.09	14.94	74.0	-34.91	Peak	V	Pass
5**	14320.000	41.29	24.92	54.0	-12.71	AV	V	Pass
5	14320.000	51.29	24.92	74.0	-22.71	Peak	V	Pass
6**	24304.001	45.69	23.21	54.0	-8.31	AV	V	Pass
6	24304.001	56.29	23.21	74.0	-17.71	Peak	V	Pass



Vertical

RSE_FCC Test Case_FCC 15C 1GHz-25GHz

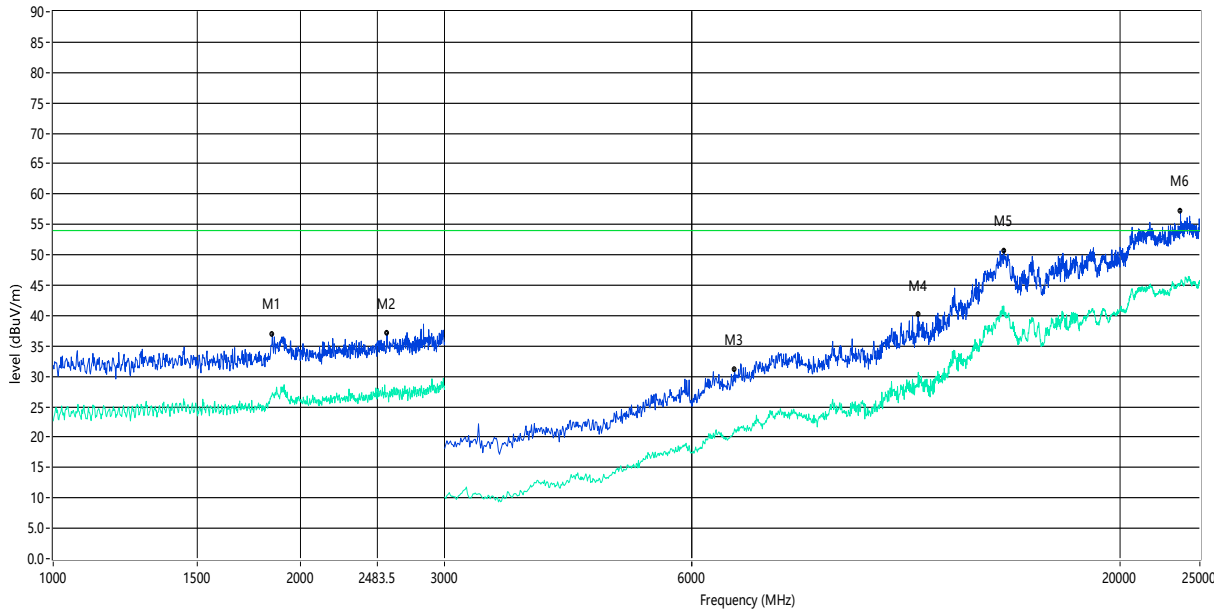


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	ANT	Verdict
1**	1902.000	28.21	-0.68	54.0	-25.79	AV	V	Pass
1	1902.000	37.10	-0.68	74.0	-36.90	Peak	V	Pass
2**	2776.000	27.23	0.71	54.0	-26.77	AV	V	Pass
2	2776.000	37.36	0.71	74.0	-36.64	Peak	V	Pass
3**	8000.000	24.58	10.93	54.0	-29.42	AV	V	Pass
3	8000.000	34.74	10.93	74.0	-39.26	Peak	V	Pass
4**	10980.000	29.87	15.71	54.0	-24.13	AV	V	Pass
4	10980.000	39.96	15.71	74.0	-34.04	Peak	V	Pass
5**	14428.000	41.70	25.10	54.0	-12.30	AV	V	Pass
5	14428.000	51.33	25.10	74.0	-22.67	Peak	V	Pass
6**	23992.001	46.01	23.31	54.0	-7.99	AV	V	Pass
6	23992.001	57.20	23.31	74.0	-16.80	Peak	V	Pass



GFSK High Channel Horizontal

RSE_FCC Test Case_FCC 15C 1GHz-25GHz

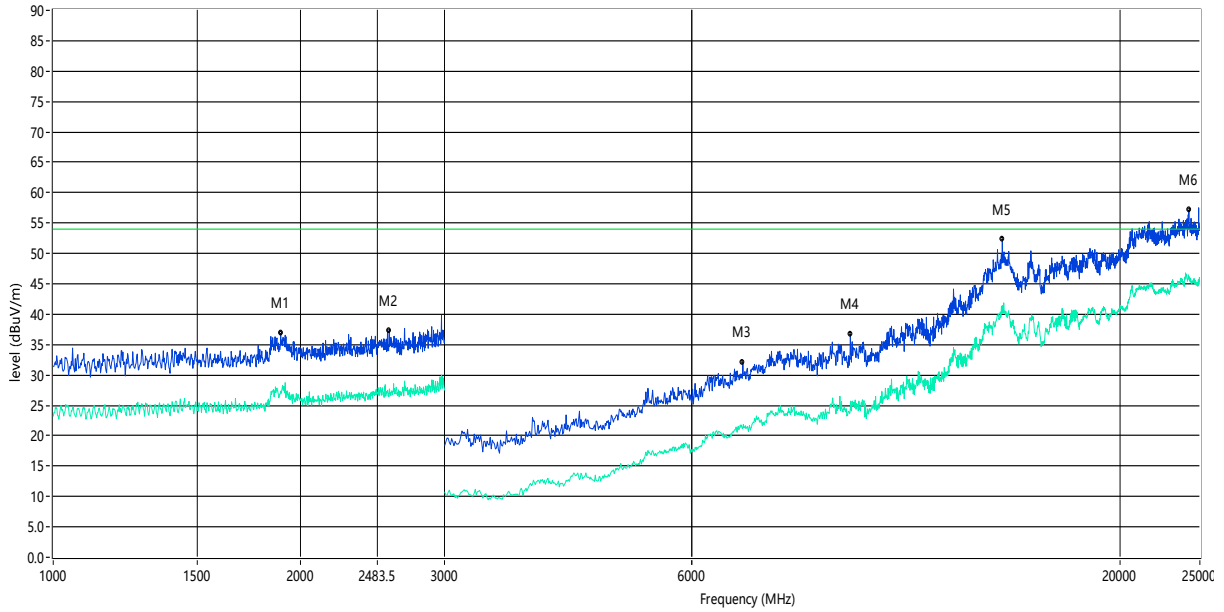


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	OverLimit (dB)	Detector	ANT	Verdict
1**	1850.000	27.31	-1.24	54.0	-26.69	AV	V	Pass
1	1850.000	36.91	-1.24	74.0	-37.09	Peak	V	Pass
2**	2552.000	27.35	-0.33	54.0	-26.65	AV	V	Pass
2	2552.000	36.99	-0.33	74.0	-37.01	Peak	V	Pass
3**	6770.000	21.38	6.91	54.0	-32.62	AV	V	Pass
3	6770.000	31.02	6.91	74.0	-42.98	Peak	V	Pass
4**	11340.000	30.66	16.89	54.0	-23.34	AV	V	Pass
4	11340.000	40.08	16.89	74.0	-33.92	Peak	V	Pass
5**	14428.000	41.02	25.10	54.0	-12.98	AV	V	Pass
5	14428.000	50.69	25.10	74.0	-23.31	Peak	V	Pass
6**	23680.000	45.35	23.41	54.0	-8.65	AV	V	Pass
6	23680.000	57.16	23.41	74.0	-16.84	Peak	V	Pass



Vertical

RSE_FCC Test Case_FCC 15C 1GHz-25GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	ANT	Verdict
1**	1894.000	27.33	-0.74	54.0	-26.67	AV	V	Pass
1	1894.000	36.88	-0.74	74.0	-37.12	Peak	V	Pass
2**	2568.000	27.48	-0.38	54.0	-26.52	AV	V	Pass
2	2568.000	37.33	-0.38	74.0	-36.67	Peak	V	Pass
3**	6930.000	21.32	7.93	54.0	-32.68	AV	V	Pass
3	6930.000	31.97	7.93	74.0	-42.03	Peak	V	Pass
4**	9370.000	24.58	11.26	54.0	-29.42	AV	V	Pass
4	9370.000	36.64	11.26	74.0	-37.36	Peak	V	Pass
5**	14356.000	41.43	25.12	54.0	-12.57	AV	V	Pass
5	14356.000	52.25	25.12	74.0	-21.75	Peak	V	Pass
6**	24244.001	46.20	23.23	54.0	-7.80	AV	V	Pass
6	24244.001	57.12	23.23	74.0	-16.88	Peak	V	Pass

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

2. Emission Level = Reading + Factor

Margin = Limit - Emission Level

3. The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.