Produkte
Products

Prüfbericht - Nr.: *Test Report No.:*	**17022226 001**		**Seite 1 von 50** *Page 1 of 50*
Auftraggeber: *Client:*	**Shenzhen Zepp Technology Limited** **9A-A, Wanghai Huijingyuan, Haichang Road, Shekou, Nanshan District, Shenzhen, Guangdong Province, P.R.China**		
Gegenstand der Prüfung: *Test item:*	**Golf Swing 3D Analyzer**		
Bezeichnung: *Identification:*	**GolfSense-001**	**Serien-Nr.:** *Serial No.:*	**n.a.**
Wareneingangs-Nr.: *Receipt No.:*	**163082722**	**Eingangsdatum:** *Date of receipt:*	**2011-08-29**
Prüfort: *Testing location:*	**AUDIX Technology (Shenzhen) Co., Ltd.** **52 Block, Shenzhen Science & Industry Park, Nantou, Shenzhen Guangdong, P.R. China** **FCC Registration No.: 90454**		
Prüfgrundlage: *Test specification:*	**FCC CFR47 Part 15: Subpart C Section 15.247** **FCC CFR47 Part 15: Subpart C Section 15.207** **FCC CFR47 Part 15: Subpart C Section 15.209** **FCC CFR47 Part 15: Subpart B Section 15.107** **FCC CFR47 Part 15: Subpart B Section 15.109**		
Prüfergebnis: *Test Result:*	**Der Prüfgegenstand entspricht oben genannter Prüfgrundlage(n).** *The test item passed the test specification(s).*		
Prüflaboratorium: *Testing Laboratory:*	**TÜV Rheinland (Shenzhen) Co., Ltd.**		

geprüft/ *tested by:*			**kontrolliert/** *reviewed by:*		
2011-11-30	Winnie Hou/Project Manager		2011-12-07	Shawn Peng/Technical Certifier	
Datum *Date*	**Name/Stellung** *Name/Position*	**Unterschrift** *Signature*	**Datum** *Date*	**Name/Stellung** *Name/Position*	**Unterschrift** *Signature*

Sonstiges/ *Other Aspects:*

Abkürzungen:				*Abbreviations:*			
	P(ass)	=	*entspricht Prüfgrundlage*		*P(ass)*	=	*passed*
	F(ail)	=	*entspricht nicht Prüfgrundlage*		*F(ail)*	=	*failed*
	N/A	=	*nicht anwendbar*		*N/A*	=	*not applicable*
	N/T	=	*nicht getestet*		*N/T*	=	*not tested*

TEST SUMMARY

5.1.1 ANTENNA REQUIREMENT
RESULT: Passed

5.1.2 PEAK OUTPUT POWER
RESULT: Passed

5.1.3 20DB BANDWIDTH
RESULT: Passed

5.1.4 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100KHZ BANDWIDTH
RESULT: Passed

5.1.5 SPURIOUS EMISSION
RESULT: Passed

5.1.6 FREQUENCY SEPARATION
RESULT: Passed

5.1.7 NUMBER OF HOPPING FREQUENCY
RESULT: Passed

5.1.8 TIME OF OCCUPANCY
RESULT: Passed

5.1.9 CONDUCTED EMISSIONS
RESULT: Passed

5.1.10 RADIATED EMISSIONS
RESULT: Passed

6.1.1 ELECTROMAGNETIC FIELDS
RESULT: Passed

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1. General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:
Appendix 1: Test Result

2. Test Sites

2.1 Test Facilities

AUDIX Technology (Shenzhen) Co., Ltd.

52 Block, Shenzhen Science & Industry Park, Nantou, Shenzhen

Guangdong, P.R. China

FCC Registration No.: 90454

The tests at the test site have been conducted under the supervision of a TÜV engineer.

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Kind of Equipment	Manufacturer	Type	S/N	Calibrated until
Spurious emission and Radiated emission				
EMI Test Receiver	ESVS10	834468/011	100216	2012-03-08
Spectrum Analyzer	Agilent	E4407B	MY41440292	2012-03-08
Trilog-Broadband Antenna	Schaffner	CBL6111C	2598	2012-03-08
Amplifier	HP	8447D	2648A04738	2012-03-08
RF Cable	MIYAZAKI	8D-FB	N/A	2012-03-08
Horn Antenna	EMCO	3115	9607-4877	2011-11-25
Loop Antenna	Chase	HLA6120	1062	2012-05-08
3m Anechoic Chamber	AUDIX	N/A	N/A	2011-12-05
Active Loop Antenna	R&S	HFH2-Z2	830749/020	2012-05-27
Radio Test Suite				
Test Receiver	Rohde & Schwarz	ESCI	100842	2011-10-20
Conducted Emission				
Receiver	R&S	ESHS20	836600/006	2012-03-08
Artificial Mains Network	R&S	ESH2-Z5	834066/011	2012-03-08

2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basics using in house standards or comparisons.

2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements are ±3dB.

2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix1 of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

The AUDIX Technology (Shenzhen) Co., Ltd. test facility located at 52 Block, Shenzhen Science & Industry Park, Nantou, Shenzhen, Guangdong, P. R. China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3. General Product Information

3.1 Product Function and Intended Use

The EUT is Golf Swing 3D Analyzer with Bluetooth technology.
The EUT is attached to golf glove pad to track more accurate information on Swing, help Golfer record Swing Data in iOS devices, upload to or download from GolfSense Sever. You can share Swing data via Bluetooth between iOS devices or GolfSense sever.
The EUT consist of main part and charging dock.
For details refer to the User Manual and Circuit Diagram.

3.2 Ratings and System Details

Table 2: Rating of EUT

Kind of Equipment:	Golf Swing 3D Analyzer
Type Designation:	GolfSense-001
FCC ID:	Z5K-GOLF001

Table 3: Technical Specification of EUT

Technical Specification	**Value**
Operating Frequency band	2402 – 2480 MHz
Channel separation	1MHz
Extreme Temperature Range	-10ºC to +55ºC
Operation Voltage	DC 3.7V (via Lithium Battery)
Modulation	FHSS, GFSK, 8PSK, $\pi/4$ DQPSK
Antenna Type	Internal Antenna, Non-User Replaceable
Antenna Gain	1.5dBi
RF Output Power	0.00131W (1.18dBm)

Table 4: Frequency hopping information

Technical Specification	Description
Hopping Range	Hereby we declare that the maximum frequency of this device is: 2402-2480MHz. This is according the Bluetooth Core Specification V3.0 for devices which will be operated in the USA. This was checked during the Bluetooth Qualification tests (Test Case: TRM/CA/04-E).
Hopping Sequence	Example of a 79 hopping sequence in data mode: 33,04,21,44,23,42,53,46,55,48,40,59,72,29,76,31,08,73, 07,75,09,45,60,39,58,13,47,11,77,52,35,50,65,54,67,56, 69,62,71,64, 7,25,27,66,57,70,74,61,78,63,10,41,05,43, 15,44,64,68,02,70,06,01,51,03,55,05,03,66,53,49,36,47,
Receiver input bandwidth	The input bandwidth of the receiver is 1MHz. In every connection one Bluetooth device is the master and the other one is the slave. The master determines the hopping sequence. The slave follows this sequence. Both devices shift between RX and TX time slot according to the clock of the master. Additionally the type of connection is set up at the beginning of the connection. The master adapts its hopping frequency and its TX/RX timing according to the packet type of the connection. Also the slave of the connection will use these settings. Repeating of a packer has no influence on the hopping sequence. The hopping sequence generated by the master of the connection will be followed in any case. That means a repeated packet will not be send on the same frequency, it is send on the next frequency of the hopping sequence.

3.3 Independent Operation Modes

The basic operation modes are:

A. Transmitting
   1. Low channel
   2. Middle channel
   3. High channel
B. Standby
C. Receiving
D. Charging
E. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

3.5 Submitted Documents

- Bill of Material
- PCB Layout
- Photo Document
- Technical Description
- Circuit Diagram
- Instruction Manual
- Rating Label

4. Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

The equipment under test (EUT) was configured to measure its maximum power level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All testing were performed according to the procedures in ANSI C63.4: 2003.

Full test was applied on all test modes, but only worst case was shown.

4.3 Special Accessories and Auxiliary Equipment

None.

4.4 Countermeasures to achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Constructional Data Form or the Technical Construction File. No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test

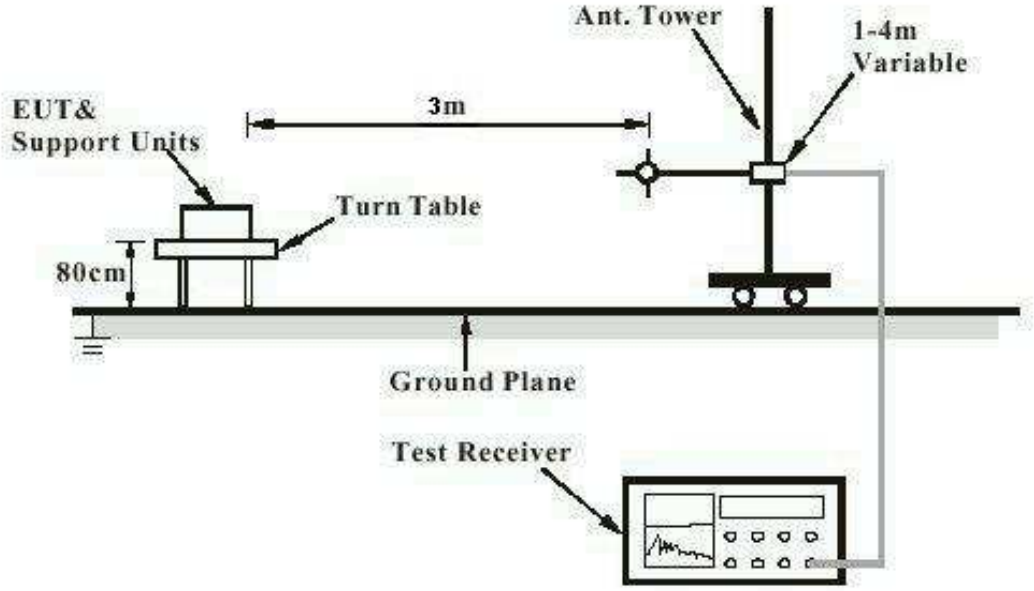


Diagram of Measurement Equipment Configuration for Mains Conduction Measurement

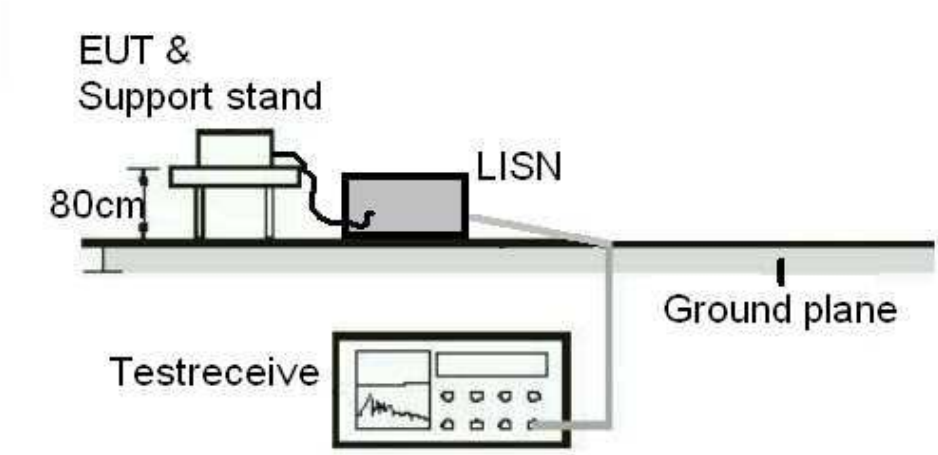
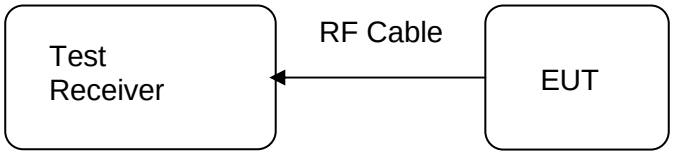


Diagram of Measurement Equipment Configuration for Conducted Transmitter Measurement



5. Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT: **Passed**

Test date	:	2011-09-16
Test standard	:	FCC Part 15.247(b)(4) and Part 15.203
Limit	:	the use of antennas with directional gains that do not exceed 6 dBi

According to the manufacturer declared, the EUT has an internal antenna, the directional gain of antenna is 1.5dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision.

Refer to EUT photo for details.

5.1.2 Peak Output Power

RESULT: **Passed**

Test date	:	2011-09-22
Test standard	:	FCC Part 15.247(b)(1)
Basic standard	:	ANSI C63.4: 2003
Limit	:	1 Watt (BDR) 0.125W (EDR)
Kind of test site	:	Shielded room

Test setup

Test Channel	:	Low/ Middle/ High
Operation Mode	:	A
Ambient temperature	:	20℃
Relative humidity	:	50%
Atmospheric pressure	:	101 kPa

Table 5: Test result of Peak Output Power, GFSK modulation

Channel	Channel Frequency (MHz)	Peak Output Power		Limit
		(dBm)	(W)	(W)
Low Channel	2402	0.60	0.00115	1
Middle Channel	2441	0.58	0.00114	1
High Channel	2480	0.75	0.00119	1

Remark: RBW is 1MHz

Table 6: Test result of Peak Output Power, 8DPSK modulation

Channel	Channel Frequency (MHz)	Peak Output Power		Limit
		(dBm)	(W)	(W)
Low Channel	2402	1.18	0.00131	0.125
Middle Channel	2441	1.16	0.00131	0.125
High Channel	2480	0.92	0.00124	0.125

Remark: RBW is 3MHz

5.1.3 20dB Bandwidth

RESULT: **Passed**

Date of testing	:	2011-09-16
Test standard	:	FCC Part 15.247(a)(1)
Basic standard	:	ANSI C63.4: 2003
Kind of test site	:	Shielded room

Test setup

Test Channel	:	Low/ Middle/ High
Operation Mode	:	A
Ambient temperature	:	20℃
Relative humidity	:	50%
Atmospheric pressure	:	101 kPa

Table 7: Test result of 20dB Bandwidth, GFSK modulation

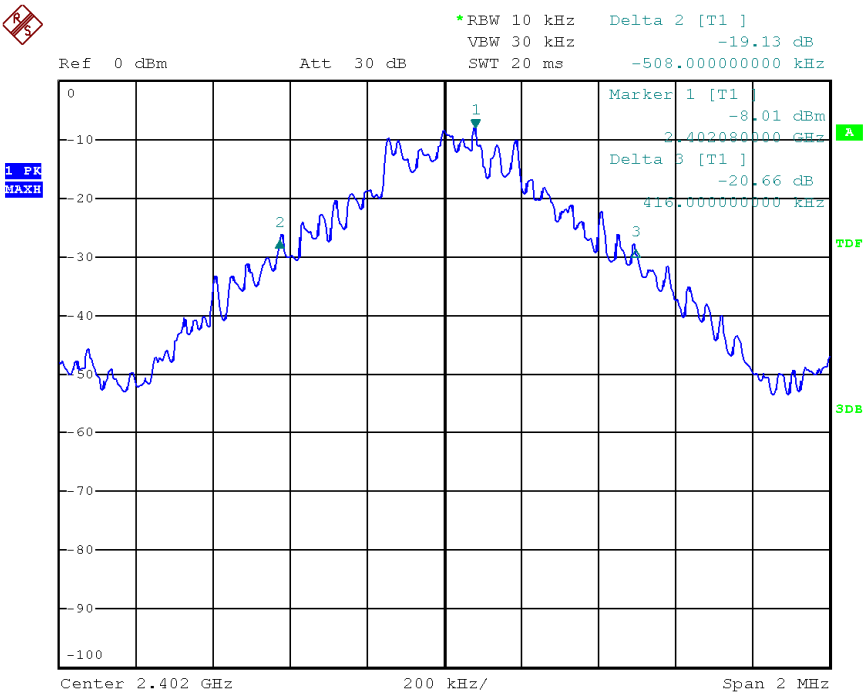
Channel	Channel Frequency (MHz)	20dB Bandwidth (kHz)	Limit (MHz)	Result
Low Channel	2402	924	/	Pass
Mid Channel	2441	928	/	Pass
High Channel	2480	924	/	Pass

Table 8: Test result of 20dB Bandwidth, 8DPSK modulation

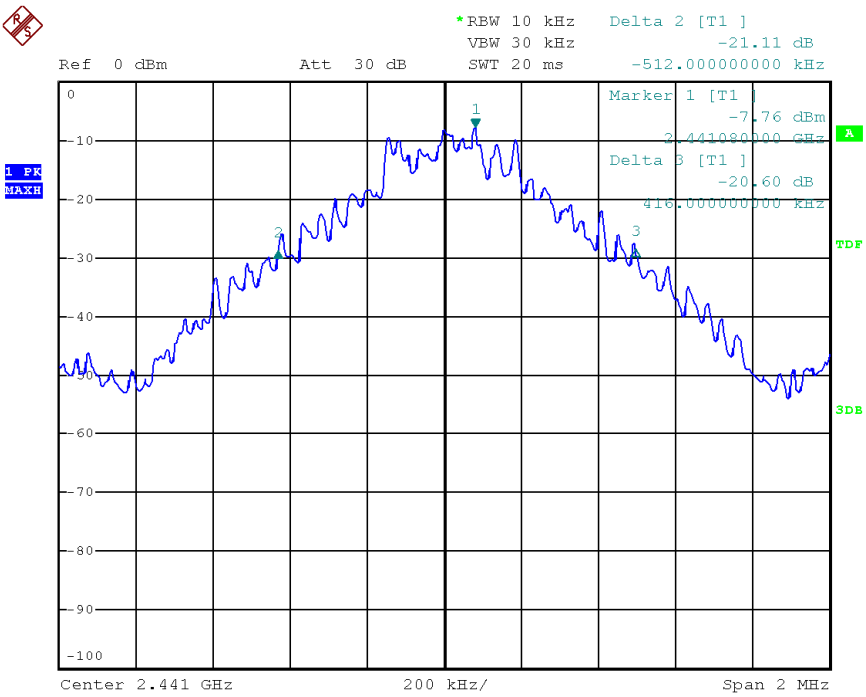
Channel	Channel Frequency (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Result
Low Channel	2402	1.27	/	Pass
Mid Channel	2441	1.31	/	Pass
High Channel	2480	1.30	/	Pass

Test Plot of 20dB Bandwidth, GFSK modulation

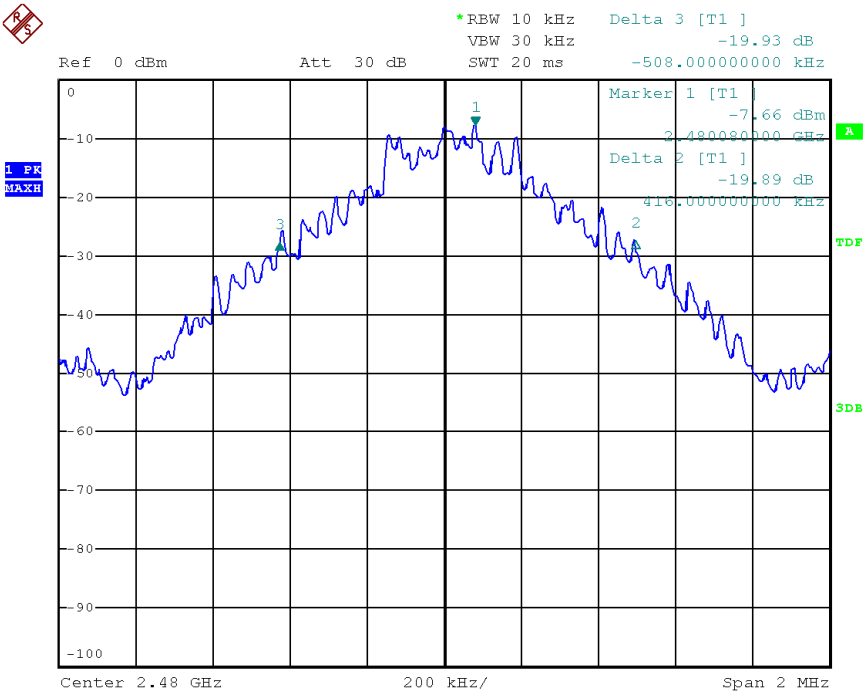
Low Channel



Middle Channel

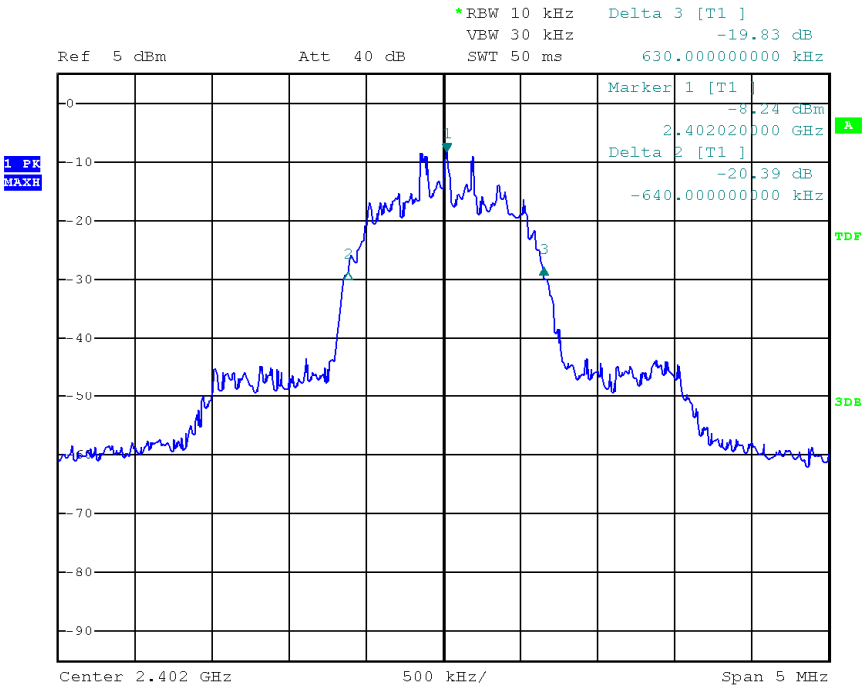


High Channel

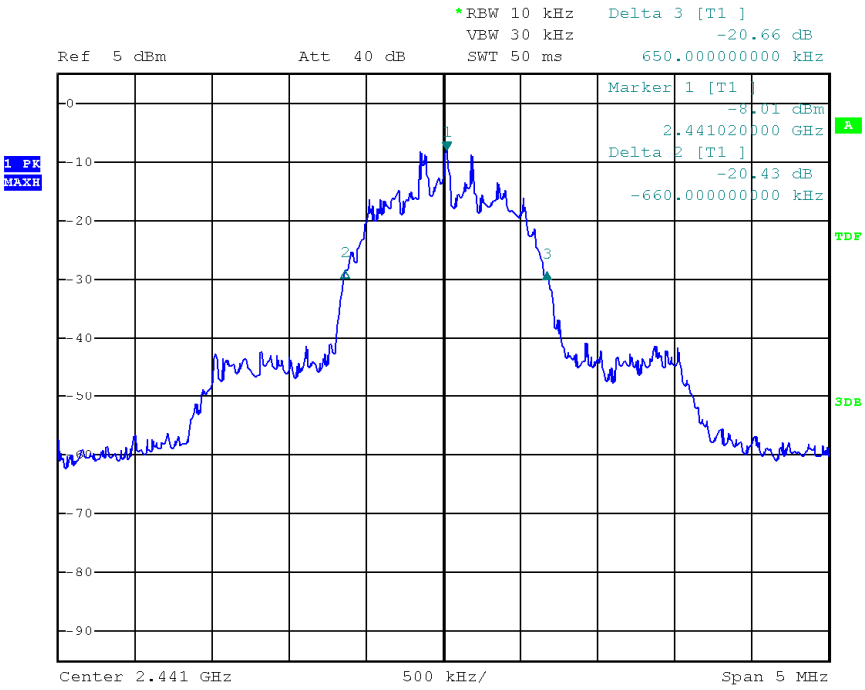


Test Plot of 20dB Bandwidth, 8DPSK modulation

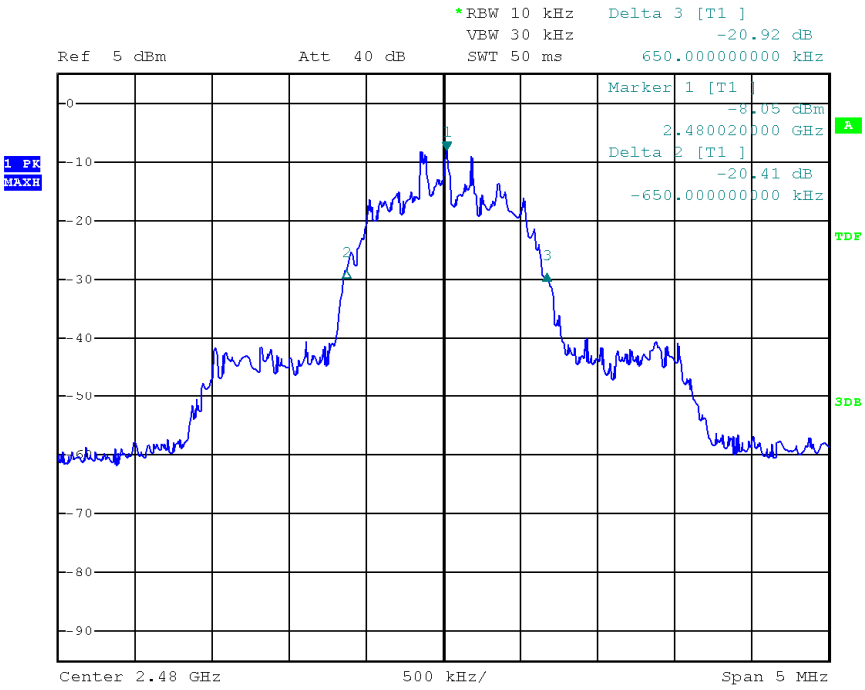
Low Channel



Middle Channel



High Channel



5.1.4 Conducted spurious emissions measured in 100kHz Bandwidth

RESULT: **Passed**

Date of testing	:	2011-09-22
Test standard	:	FCC part 15.247(d)
Basic standard	:	ANSI C63.4: 2003
Limit	:	20dB (below that in the 100kHz bandwidth within the band that contains the highest level of the desired power); In addition, radiated emissions which fall in the restricted bands, must also comply with the radiated emission limits specified in 15.209(a)
Kind of test site	:	Shield room

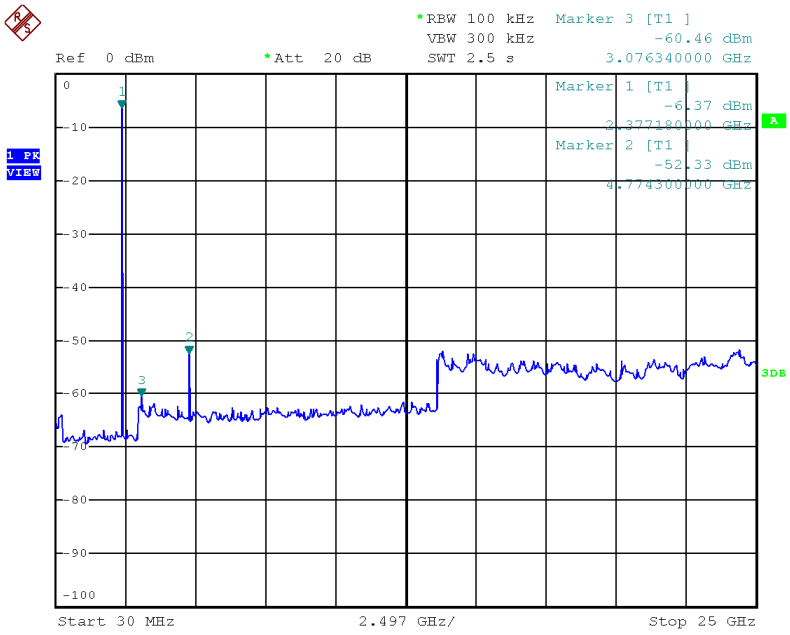
Test setup

Test Channel	:	Low/ High
Operation mode	:	A
Ambient temperature	:	22℃
Relative humidity	:	52%
Atmospheric pressure	:	101 kPa

All emissions are more than 20dB below fundamental, details refer to following test plot, and compliance is achived as well.

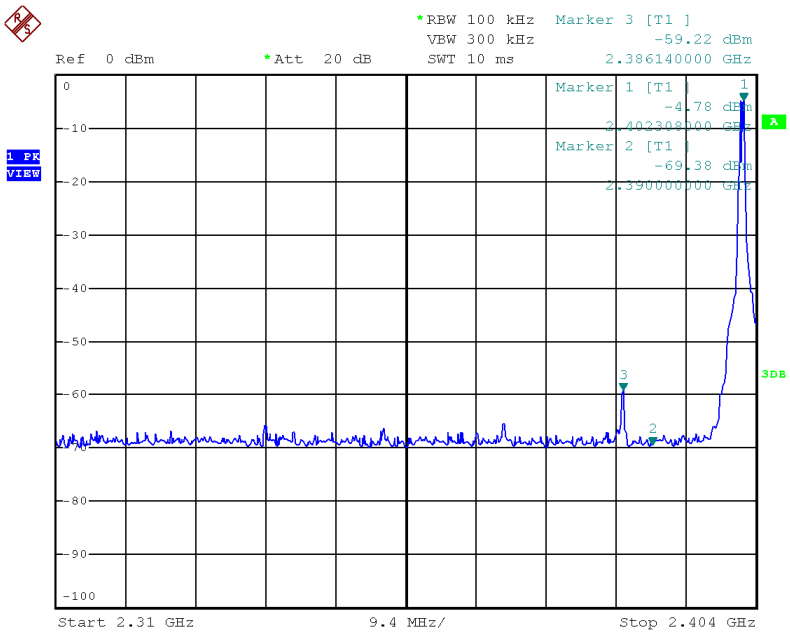
Test Plot of 100kHz Bandwidth of Frequency Band Edge, GFSK modulation

Low Channel



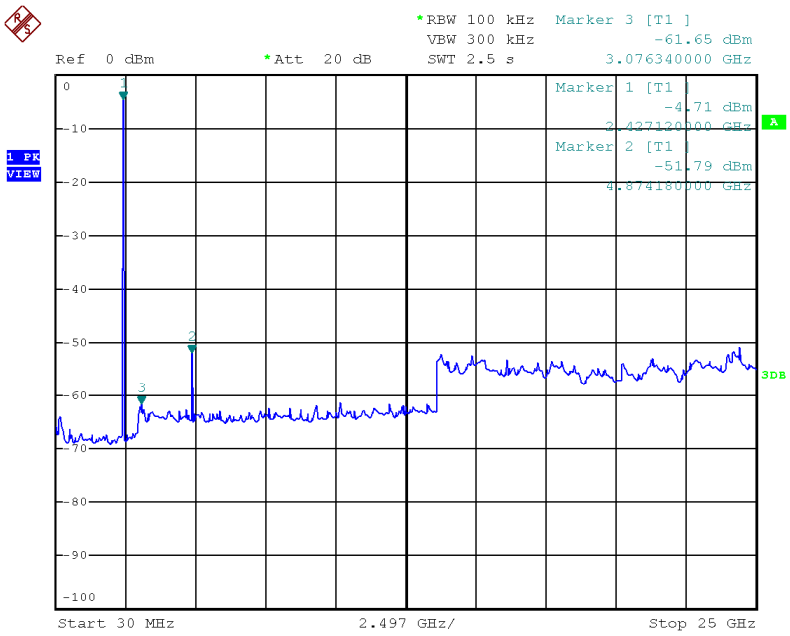
Date: 16.SEP.2011 05:27:12

Low Channel, Band Edge



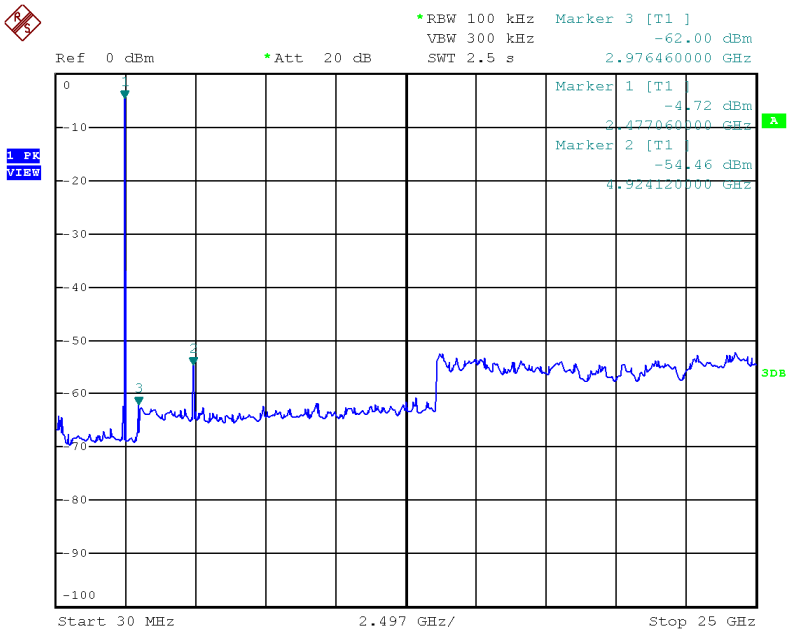
Date: 16.SEP.2011 05:34:47

Middle Channel



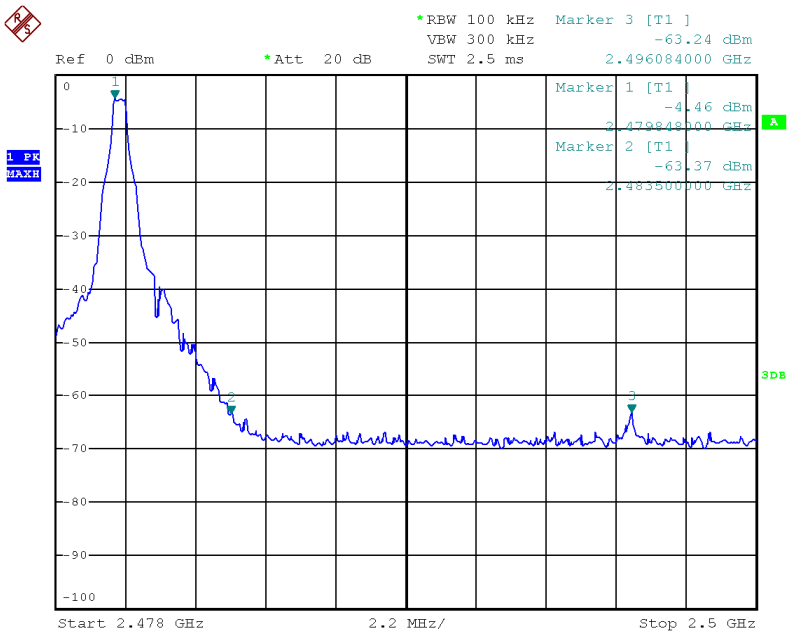
Date: 16.SEP.2011 05:28:53

High Channel



Date: 16.SEP.2011 05:31:03

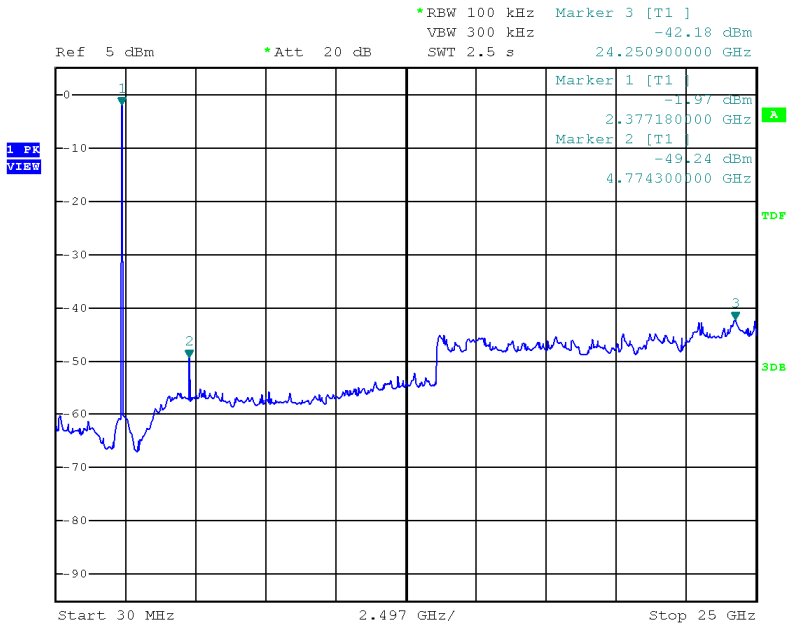
High Channel, Band Edge



Date: 16.SEP.2011 05:33:09

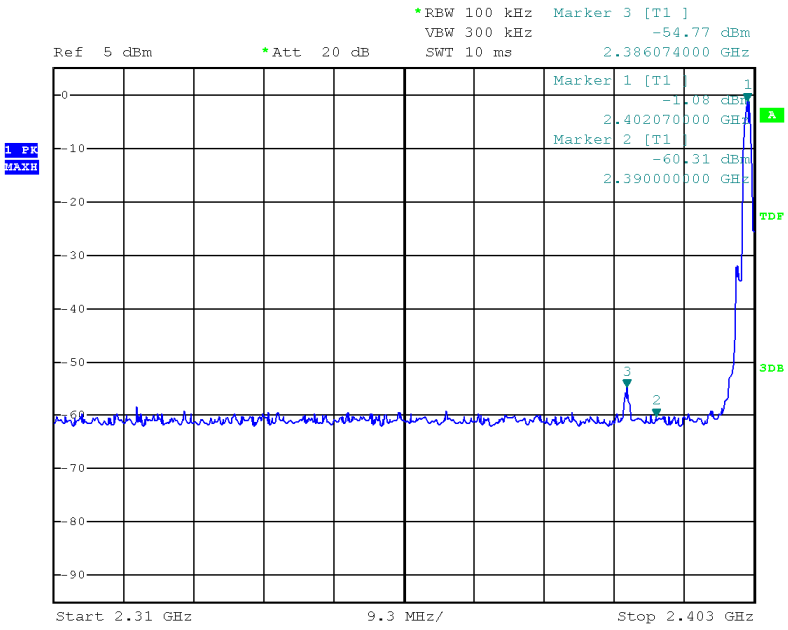
Test Plot of 100kHz Bandwidth of Frequency Band Edge, 8DPSK modulation

Low Channel



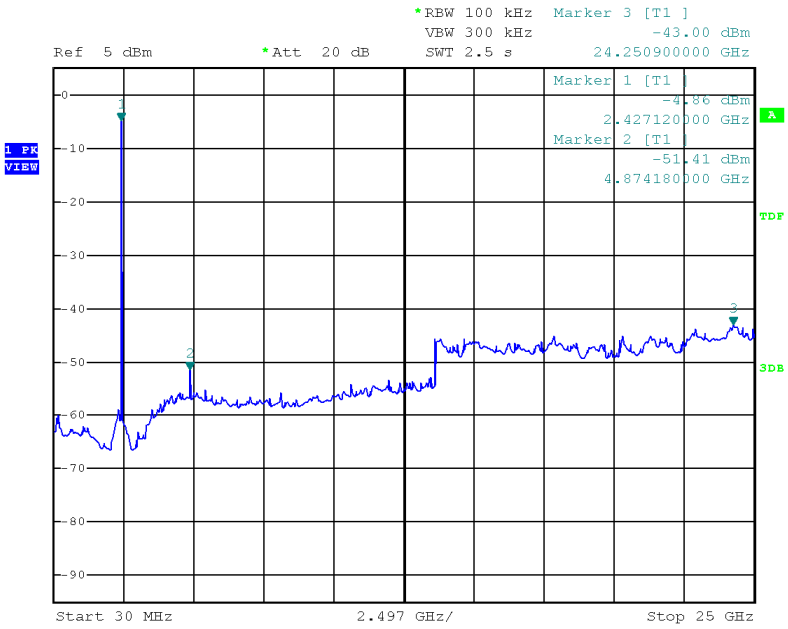
Date: 22.SEP.2011 02:16:10

Low Channel, Band Edge



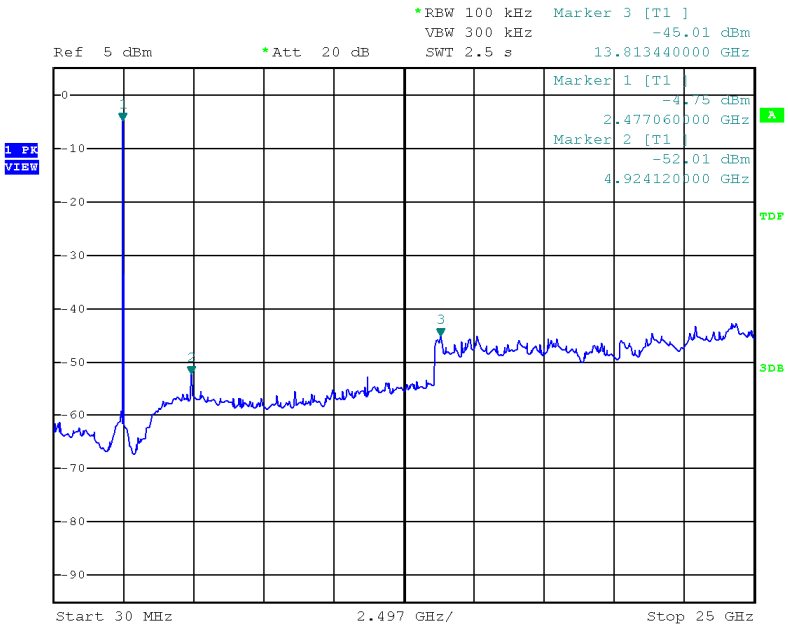
Date: 22.SEP.2011 02:08:10

Middle Channel



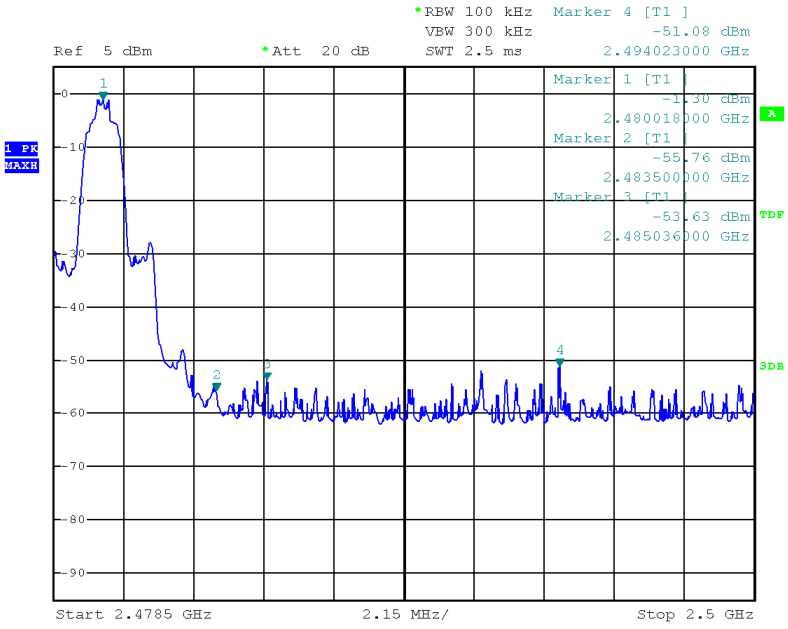
Date: 22.SEP.2011 02:17:18

High Channel



Date: 22.SEP.2011 02:18:22

High Channel, Band Edge



Date: 22.SEP.2011 02:06:53

5.1.5 Spurious Emission

RESULT: **Passed**

Date of testing	:	2011-09-30 to 2011-10-08
Test standard	:	FCC part 15.247(d) FCC Part 15.205
Basic standard	:	ANSI C63.4: 2003
Limits	:	Refer to 15.209(a) of FCC part 15.247(d)
Kind of test site	:	3m Semi-Anechoic Chamber

Test setup

Test Channel	:	Low/ Middle/ High
Operation mode	:	A, C
Ambient temperature	:	20℃
Relative humidity	:	53%
Atmospheric pressure	:	101 kPa

Remark:
During the pretest the EUT was rotated through threee orthogonal axes to determine the attitude that maximizes the emissions. After that the EUT was manually handled to find the orientation that has the maximum emission, which is the orientation shown in the test setup photos.
Testing was carried out within frequency range 9kHz to the tenth harmonics.

For details refer to Appendix 1.

5.1.6 Frequency Separation

RESULT: **Passed**

Date of testing	:	2011-09-16
Test standard	:	FCC part 15.247(a)(1)
Basic standard	:	ANSI C63.4: 2003
Limit	:	≥ 25kHz or 2/3 of 20dB bandwidth, whichever is greater

Test setup

Test Channel	:	Low/ Middle/ High
Operation Mode	:	A
Ambient temperature	:	22℃
Relative humidity	:	52%
Atmospheric pressure	:	101 kPa

Table 9: Test result of Frequency Separation, GFSK modulation

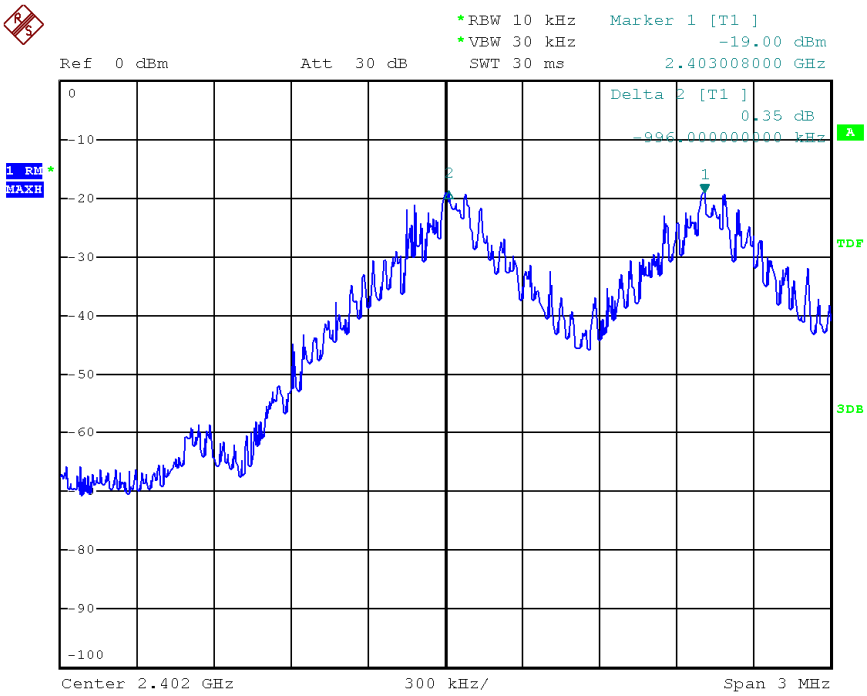
Channel	Channel Frequency (MHz)	Measured Channel Separation (MHz)	Limit (kHz)	Result
Low Channel	2402	1	≥ 25kHz or 2/3 of 20dB bandwidth	Pass
Adjacency Channel	2403			
Mid Channel	2441	1	≥ 25kHz or 2/3 of 20dB bandwidth	Pass
Adjacency Channel	2442			
High Channel	2480	1	≥ 25kHz or 2/3 of 20dB bandwidth	Pass
Adjacency Channel	2479			

Table 10: Test result of Frequency Separation, 8DPSK modulation

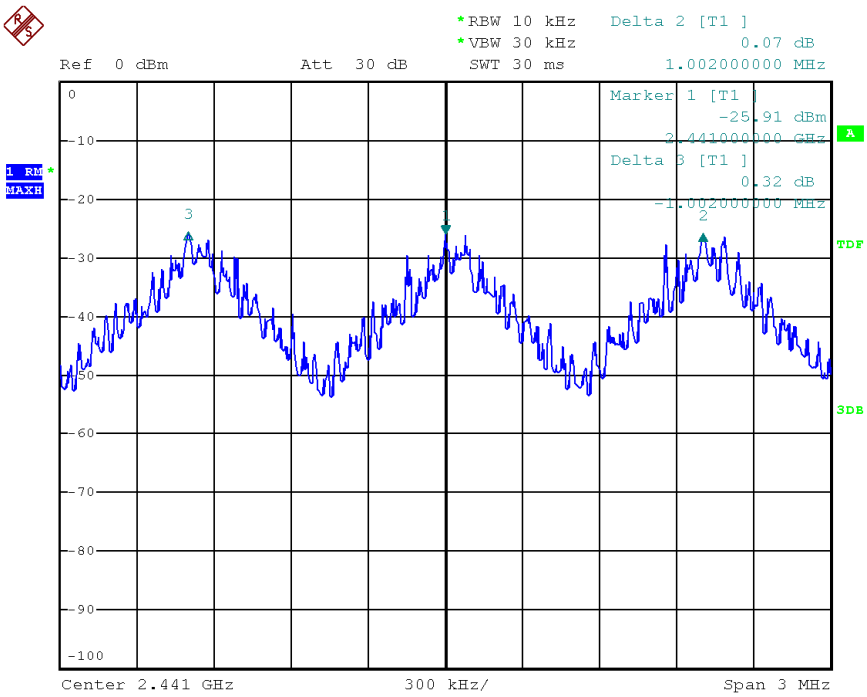
Channel	Channel Frequency (MHz)	Measured Channel Separation (MHz)	Limit (kHz)	Result
Low Channel	2402	1	≥ 25kHz or 2/3 of 20dB bandwidth	Pass
Adjacency Channel	2403			
Mid Channel	2441	1	≥ 25kHz or 2/3 of 20dB bandwidth	Pass
Adjacency Channel	2442			
High Channel	2480	1	≥ 25kHz or 2/3 of 20dB bandwidth	Pass
Adjacency Channel	2479			

Test Plot of Frequency Separation, GFSK modulation

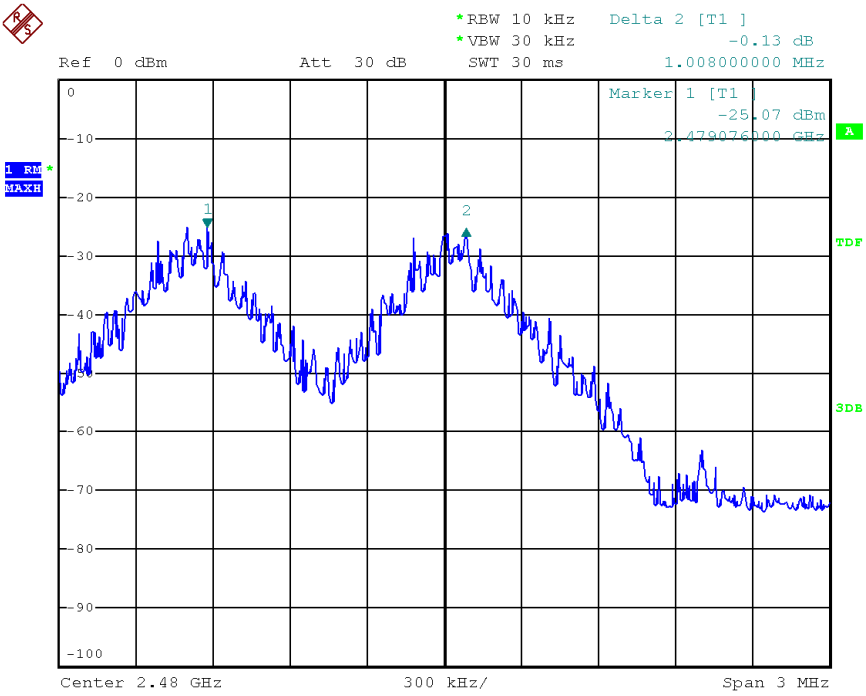
Low Channel



Middle Channel

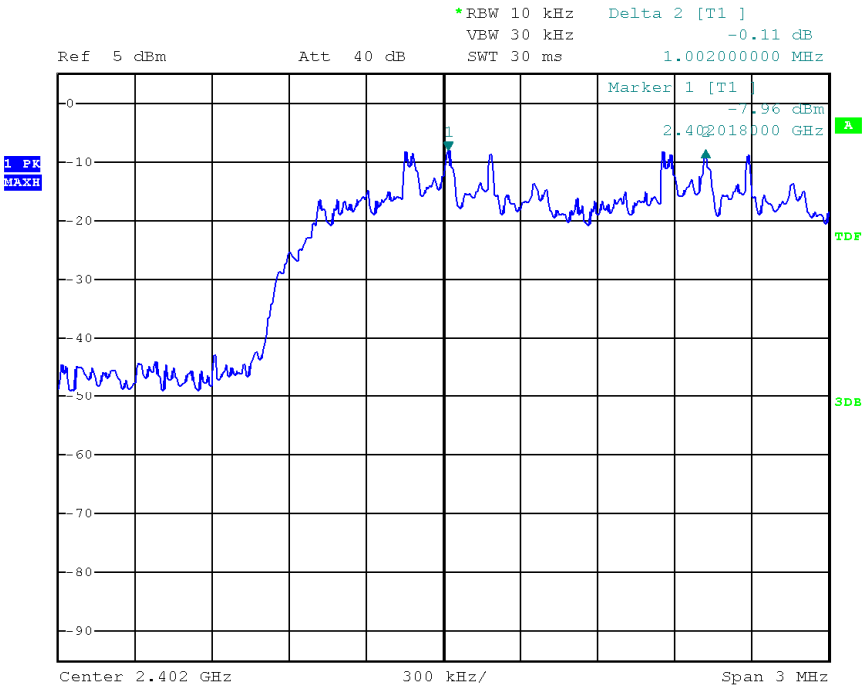


High Channel

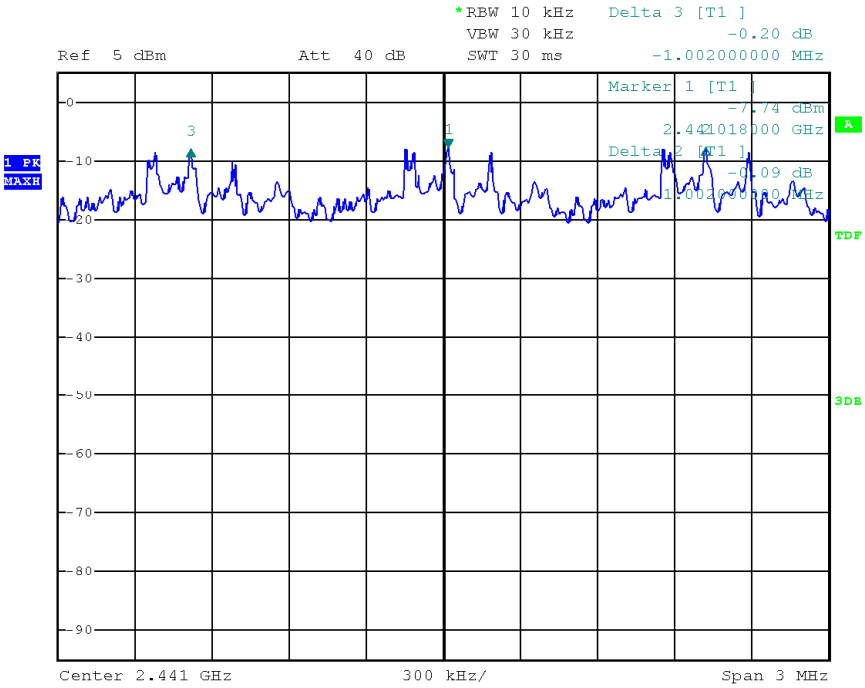


Test Plot of Frequency Separation, 8DPSK modulation

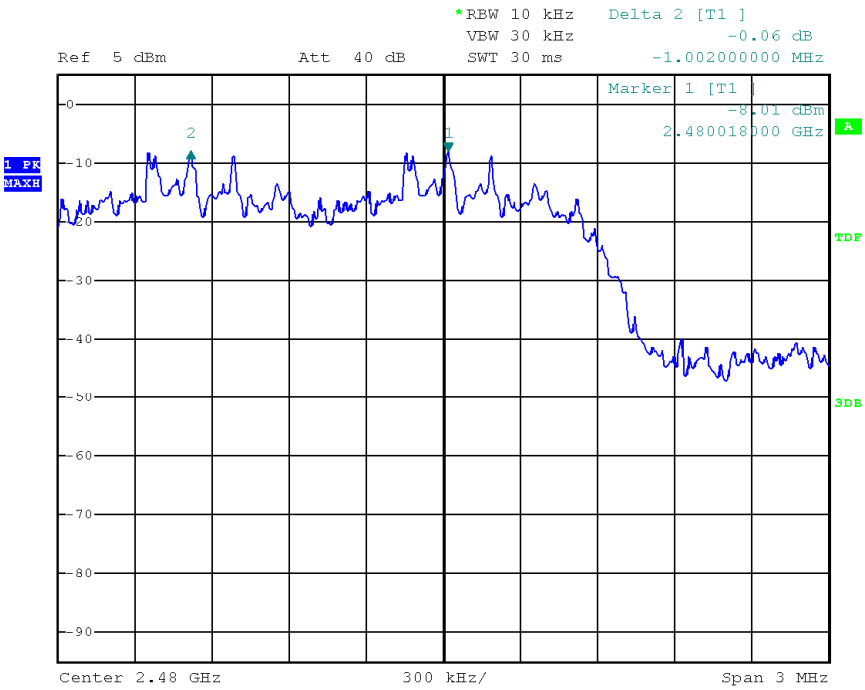
Low Channel



Middle Channel



High Channel



5.1.7 Number of hopping frequency

RESULT: **Passed**

Date of testing	:	2011-09-16
Test standard	:	FCC part 15.247(a)(1)(iii)
Basic standard	:	ANSI C63.4: 2003
Limits	:	≥ 15 non-overlapping channels
Kind of test site	:	Shield room

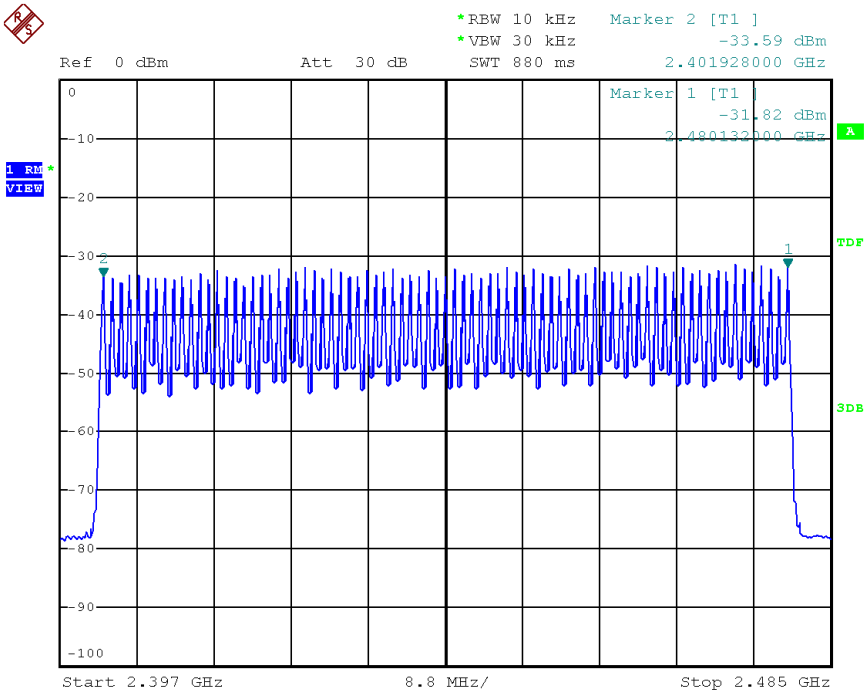
Test setup

Test Channel	:	Low/ Middle/ High
Operation Mode	:	A
Ambient temperature	:	22℃
Relative humidity	:	52%
Atmospheric pressure	:	101 kPa

Table 11: Test result of Number of hopping frequency

Frequency Range	Measured Quantity of Hopping Channel	Limit	Result
2400 to 2483.5 MHz	79	≥15	Pass

Test Plot of Number of hopping frequencies



5.1.8 Time of Occupancy

RESULT: **Passed**

Date of testing	:	2011-03-28
Test standard	:	FCC part 15.247(a)(1)(iii)
Basic standard	:	ANSI C63.4: 2003
Limits	:	0.4s
Kind of test site	:	Shield room

Test setup

Test Channel	:	Low/ Middle/ High
Operation Mode	:	A
Ambient temperature	:	20℃
Relative humidity	:	50%
Atmospheric pressure	:	101 kPa

Table 12: Test result of Time of Occupancy, GFSK modulation

Channel	Data Mode	Pulse width (ms)	Measured Dwell time (s)	Limit (s)	Result
Low Channel	DH1	0.408	0.130	0.4	Pass
	DH3	1.680	0.269	0.4	Pass
	DH5	2.960	0.316	0.4	Pass
Mid Channel	DH1	0.408	0.130	0.4	Pass
	DH3	1.400	0.224	0.4	Pass
	DH5	2.960	0.316	0.4	Pass
High Channel	DH1	0.408	0.130	0.4	Pass
	DH3	1.670	0.268	0.4	Pass
	DH5	2.940	0.314	0.4	Pass

Table 13: Test result of Time of Occupancy, 8DPSK modulation

Channel	Data Mode	Pulse width (ms)	Measured Dwell time (s)	Limit (s)	Result
Low Channel	DH1	0.426	0.136	0.4	Pass
	DH3	1.680	0.269	0.4	Pass
	DH5	2.960	0.316	0.4	Pass
Mid Channel	DH1	0.426	0.136	0.4	Pass
	DH3	1.680	0.269	0.4	Pass
	DH5	2.960	0.316	0.4	Pass
High Channel	DH1	0.426	0.136	0.4	Pass
	DH3	1.690	0.270	0.4	Pass
	DH5	2.960	0.316	0.4	Pass

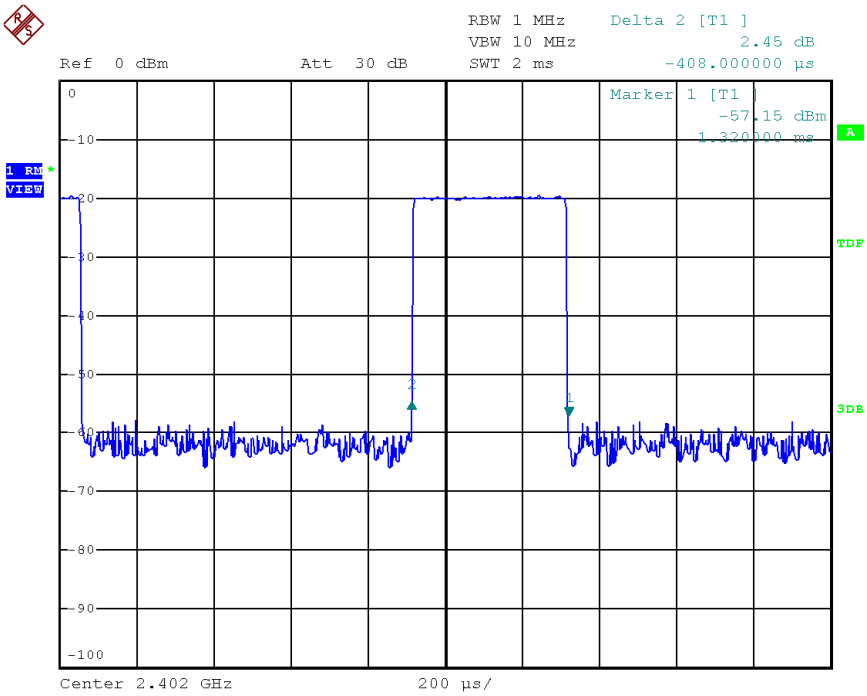
Note:

Dwell time = Pulse width x (Hopping rate / Number of channels) x Period

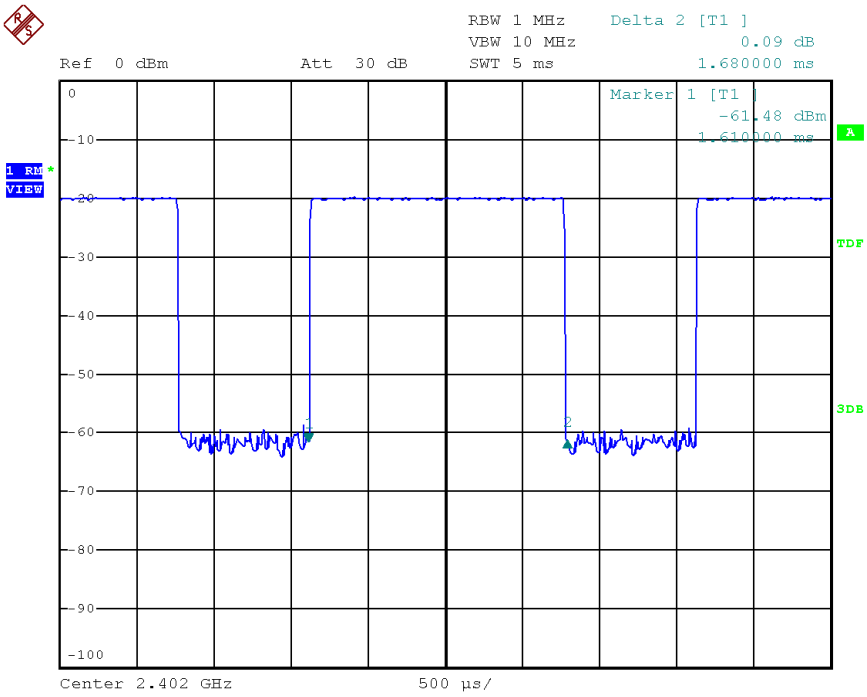
Period = 0.4 (seconds/ channel) x 79 (channel) = 31.6 seconds

Test Plot of Time of Occupancy, GFSK modulation

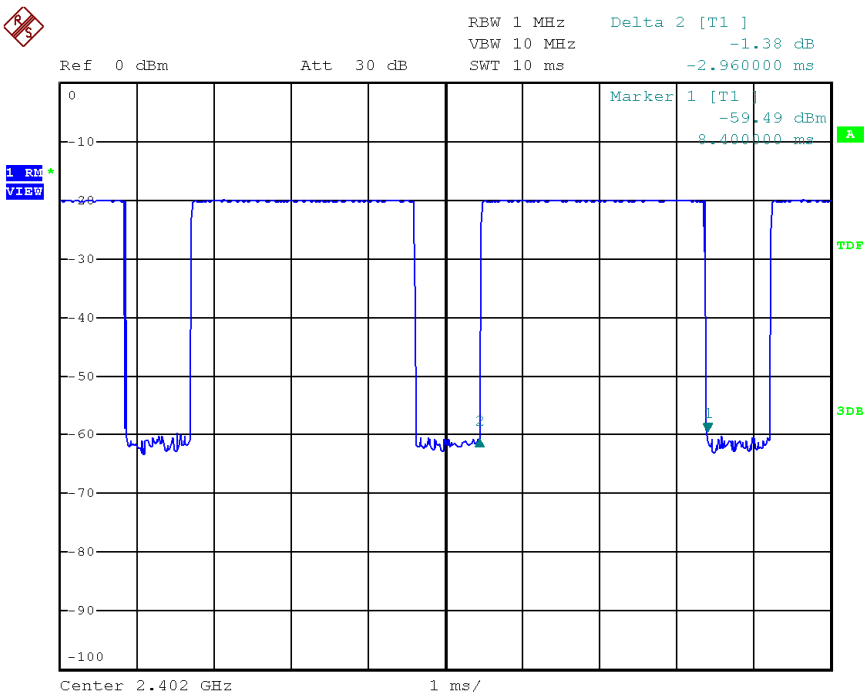
Low Channel- DH1



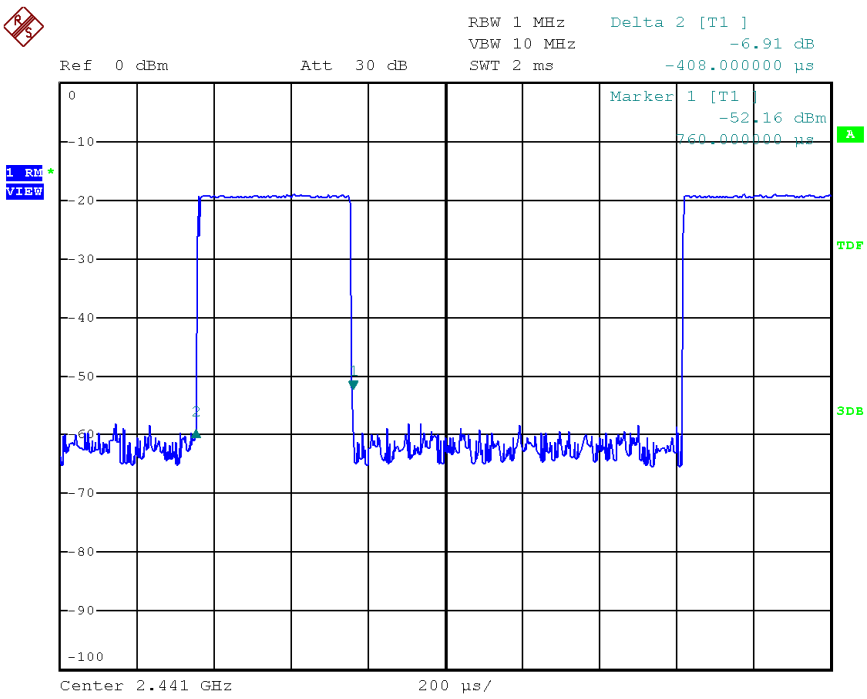
Low Channel- DH3



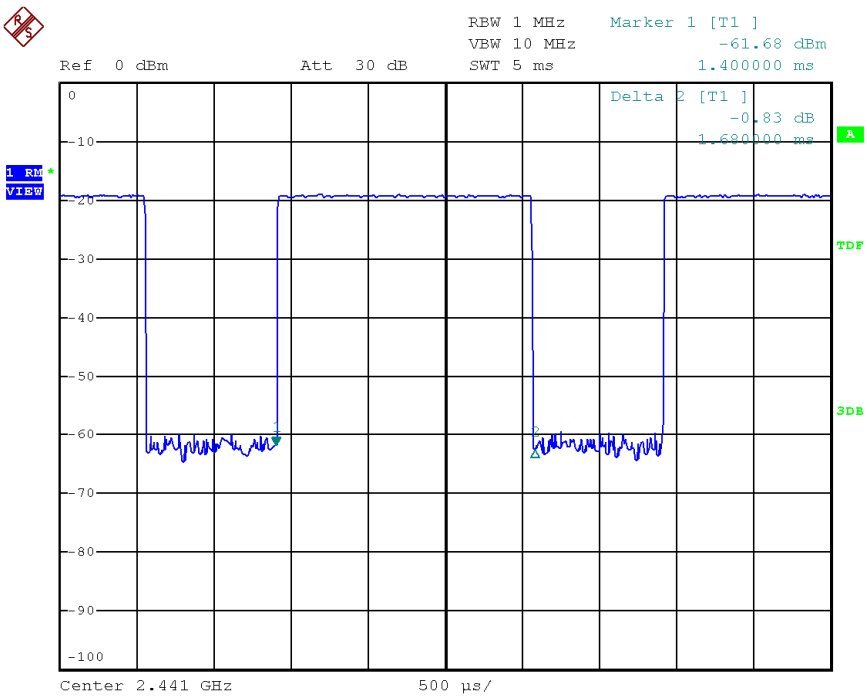
Low Channel- DH5



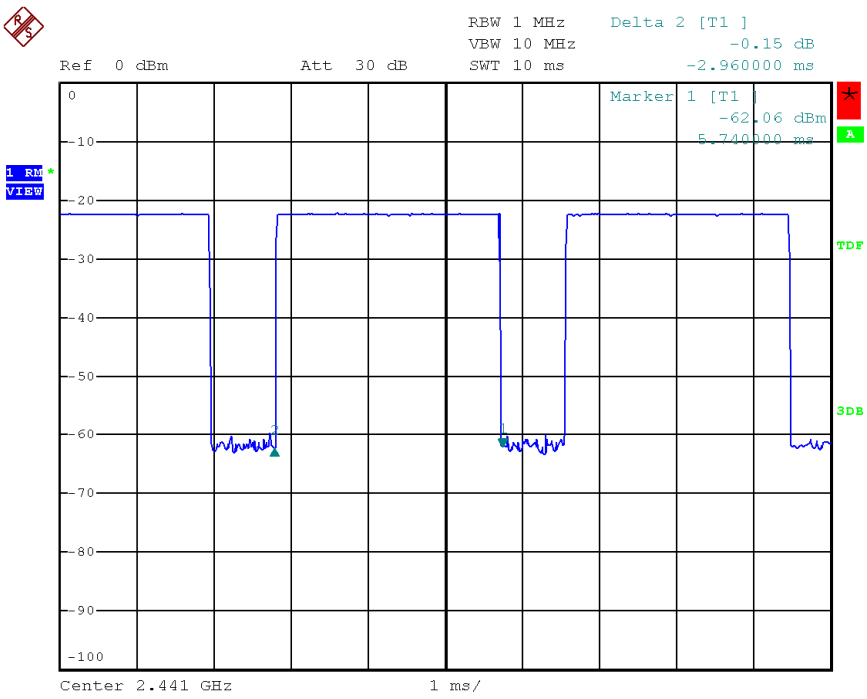
Middle Channel- DH1



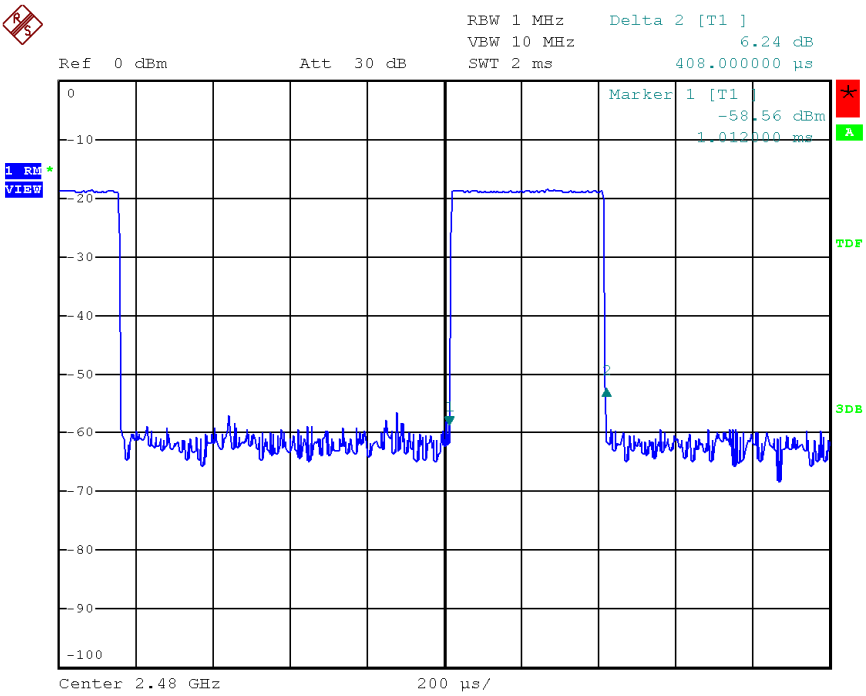
Middle Channel- DH3



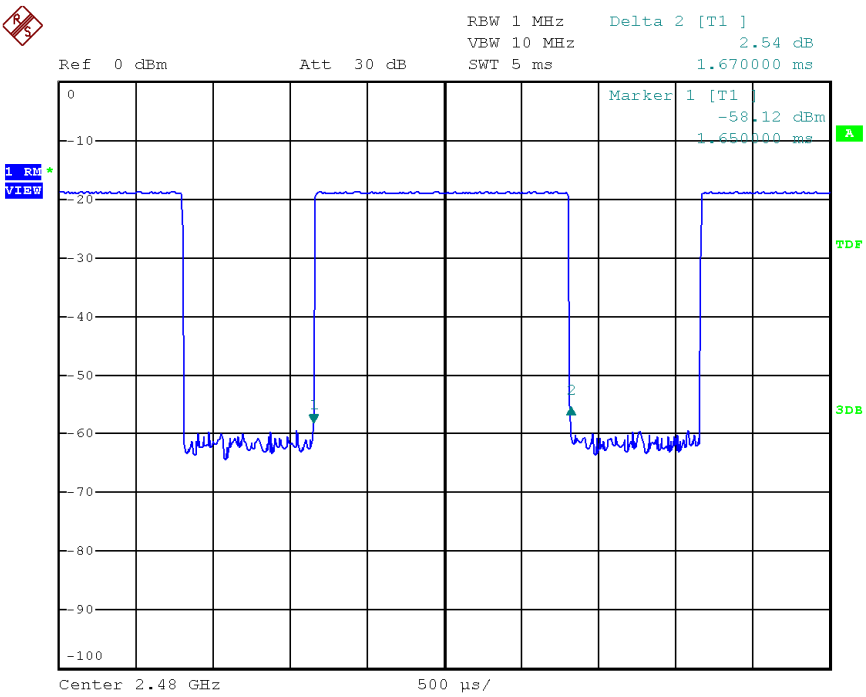
Middle Channel- DH5



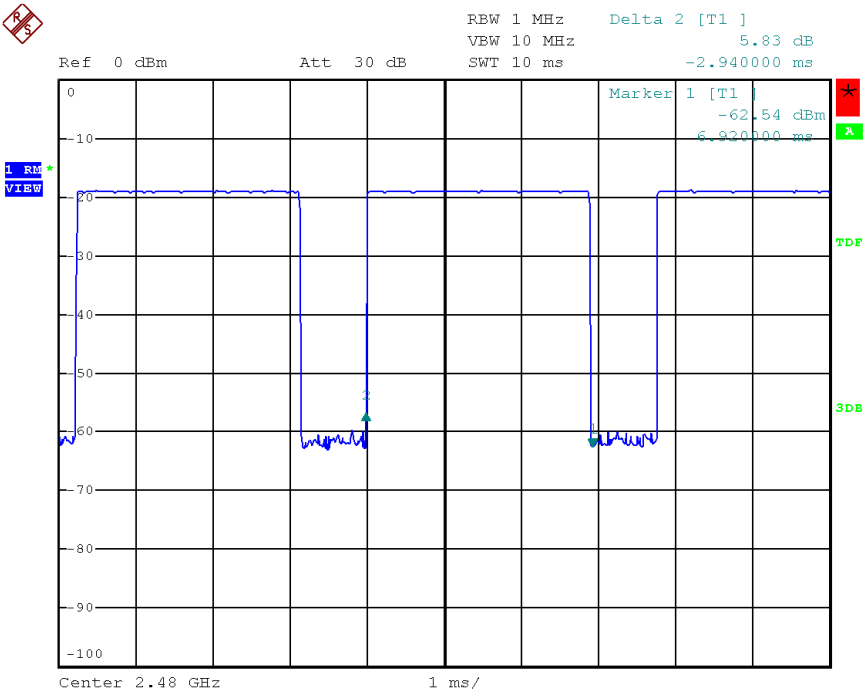
High Channel- DH1



High Channel- DH3

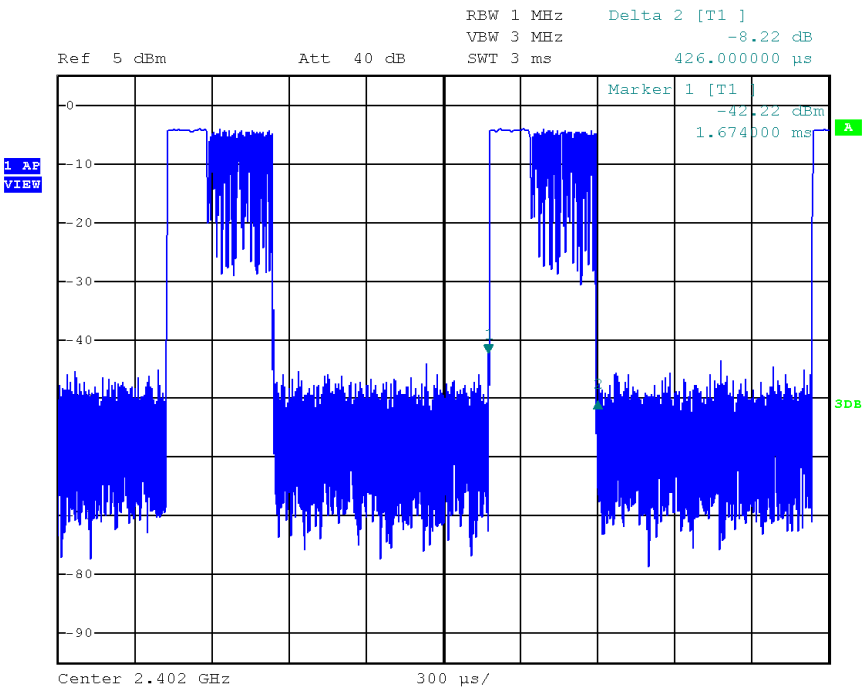


High Channel- DH5

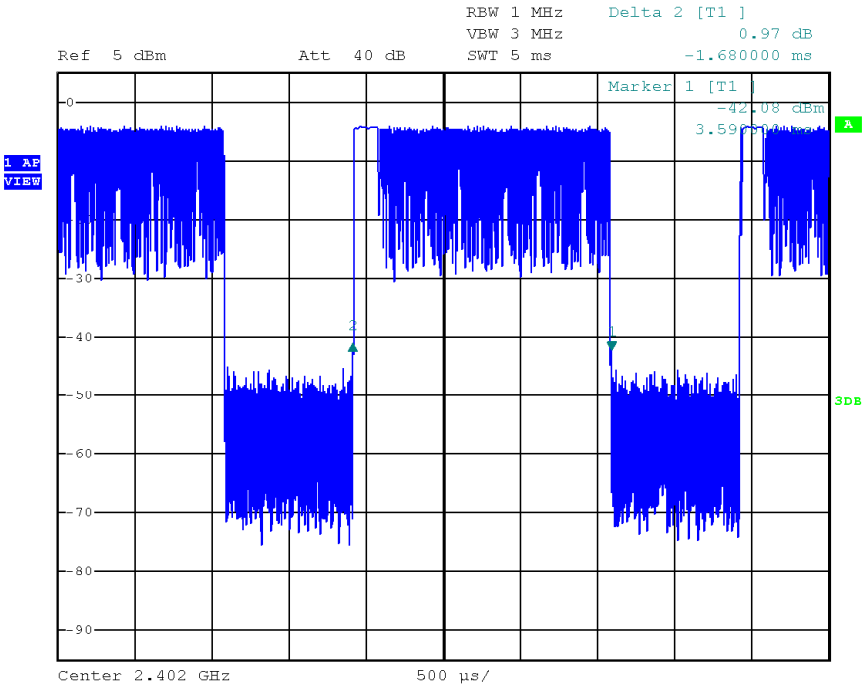


Test Plot of Time of Occupancy, 8DPSK modulation

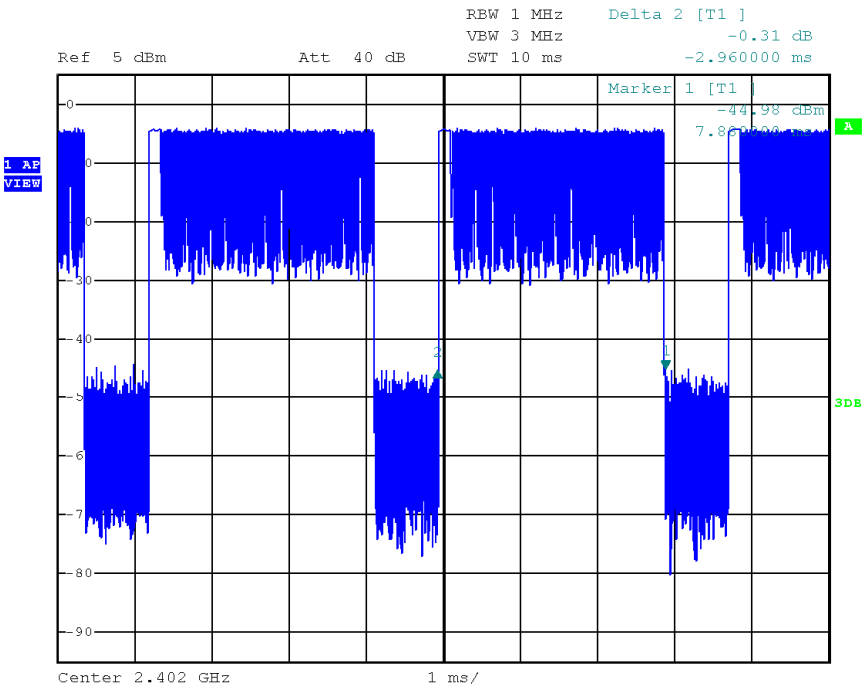
Low Channel- DH1



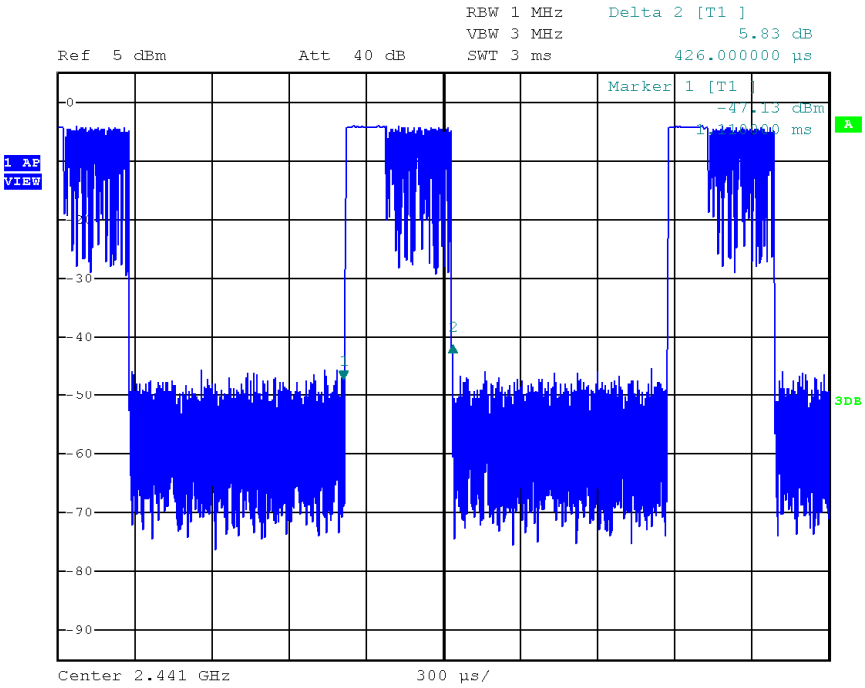
Low Channel- DH3



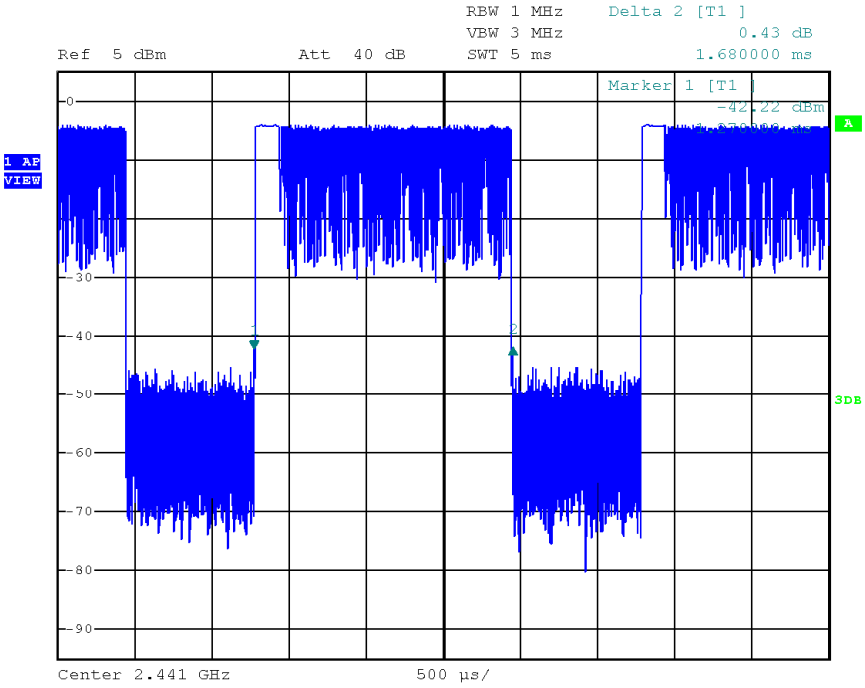
Low Channel- DH5



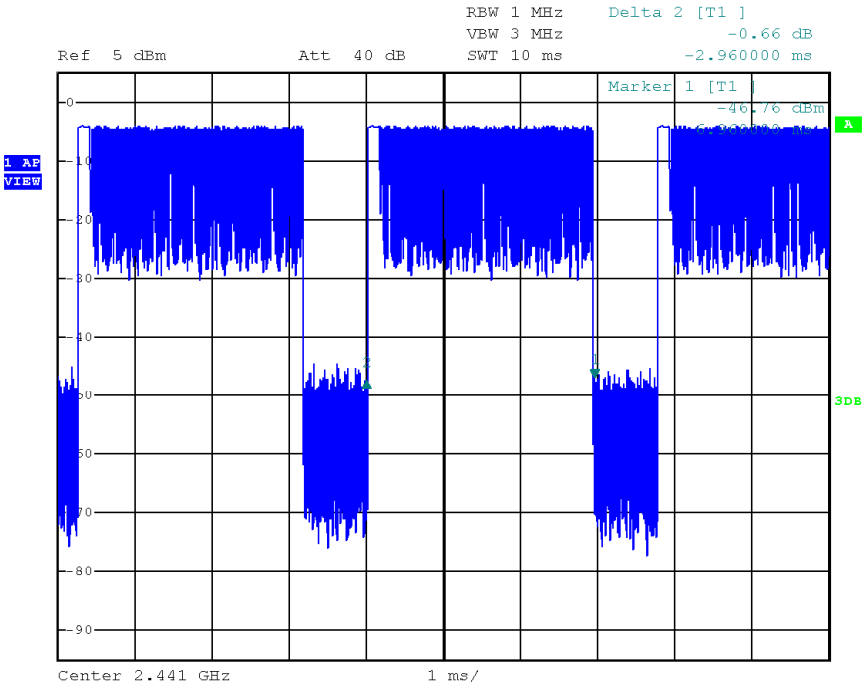
Middle Channel- DH1



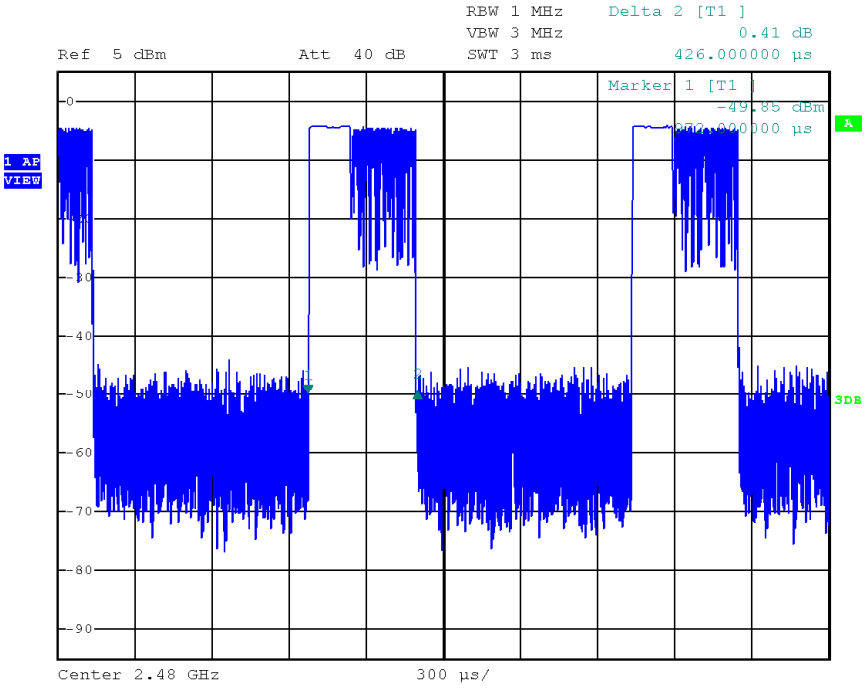
Middle Channel- DH3



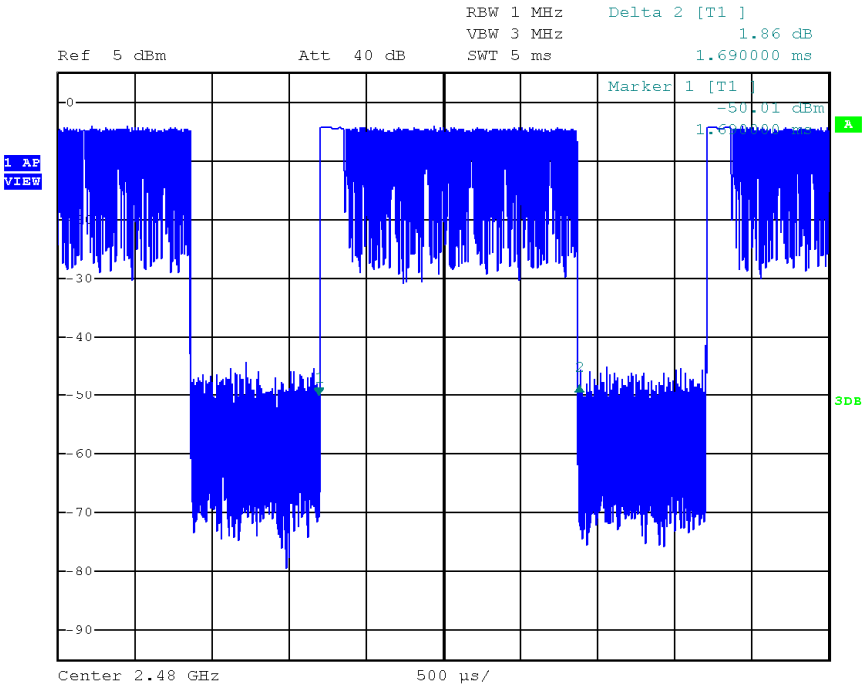
Middle Channel- DH5



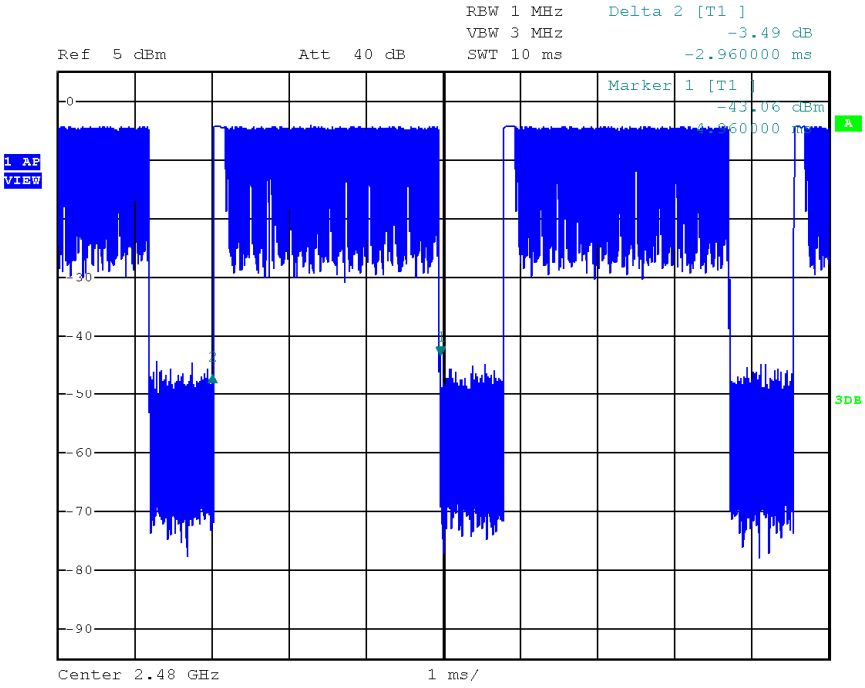
High Channel- DH1



High Channel- DH3



High Channel- DH5



5.1.9 Conducted emissions

RESULT: **Passed**

Date of testing	:	2011-10-17
Test standard	:	FCC Part 15.107(a), FCC Part 15.207(a)
Basic standard	:	ANSI C63.4: 2003
Frequency range	:	0.15 – 30MHz
Limits	:	FCC Part 15.107(a), FCC Part 15.207(a)
Kind of test site	:	Shield room

Test setup

Input Voltage (to AC input of Adapter)	:	AC 120V, 60Hz
Operation Mode	:	D
Earthing	:	Not connected
Ambient temperature	:	25.5℃
Relative humidity	:	55%
Atmospheric pressure	:	101 kPa

For details refer to Appendix 1.

5.1.10 Radiated emissions

RESULT: **Passed**

Date of testing	:	2011-10-08
Test standard	:	FCC Part 15.109
Basic standard	:	ANSI C63.4: 2003
Test frequency	:	30 - 6000MHz
Limits	:	FCC Part 15.109(a)
Kind of test site	:	3m Semi-Anechoic Chamber

Test Setup

Input Voltage (to AC input of Adapter)	:	AC 120V, 60Hz
Operation Mode	:	D
Earthing	:	Not connected
Ambient temperature	:	24℃
Relative humidity	:	56%
Atmospheric pressure	:	101 kPa

For details refer to Appendix 1.
The Radiated Emissions testing was performed in the X and Z axis mode. The X Axis mode is the worst-case recorded in this test report.

6. Safety Human exposure

6.1 Radio Frequency Exposure Compliance

6.1.1 Electromagnetic Fields

RESULT: **Passed**

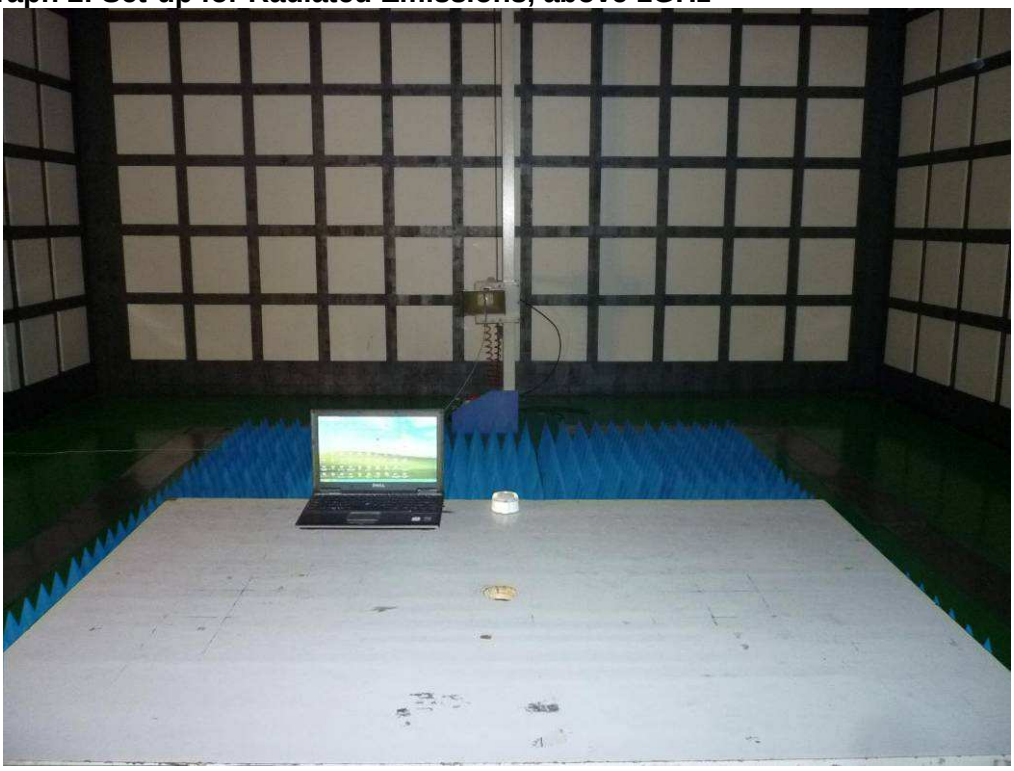
Test standard : FCC KDB Publication 447498

Since maximum peak output power of the transmitter is <60/f(GHz)mW, i.e. 1.31mW<25(=60/2.4)mW, hence the EUT is exclueded from SAR evaluation according to FCC KDB publication 447498 D01: Mobile Portable RF Exposure.

7. Photographs of the Test Set-Up

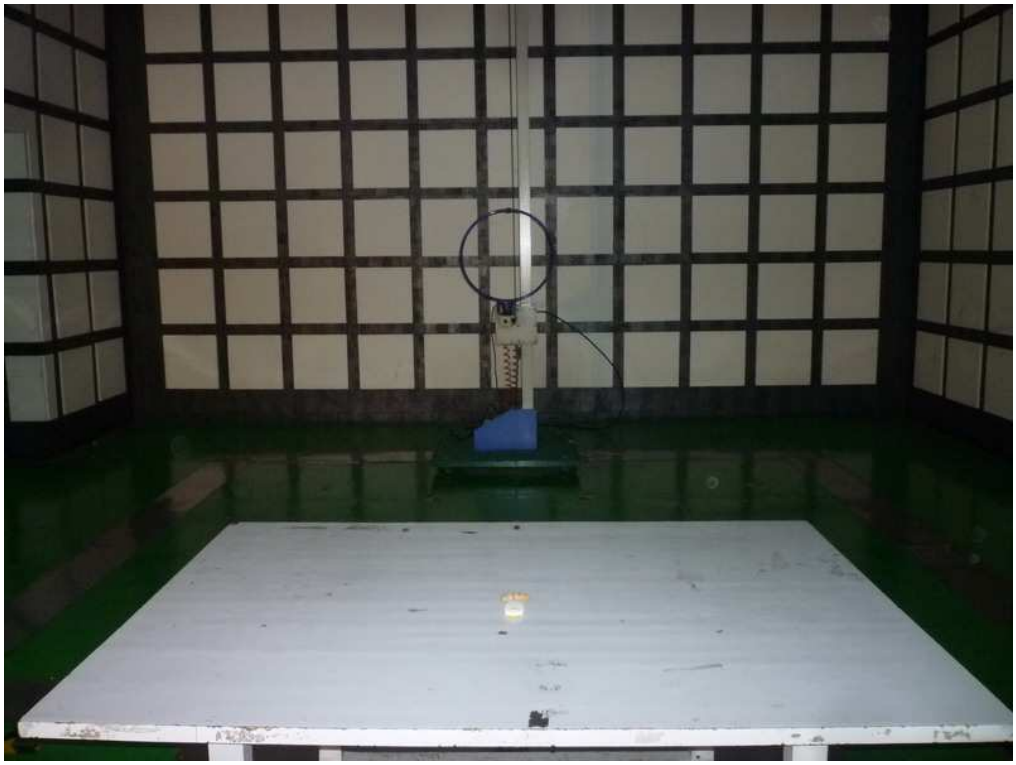
Photograph 1: Set-up for Radiated Emissions, below 1GHz

Photograph 2: Set-up for Radiated Emissions, above 1GHz



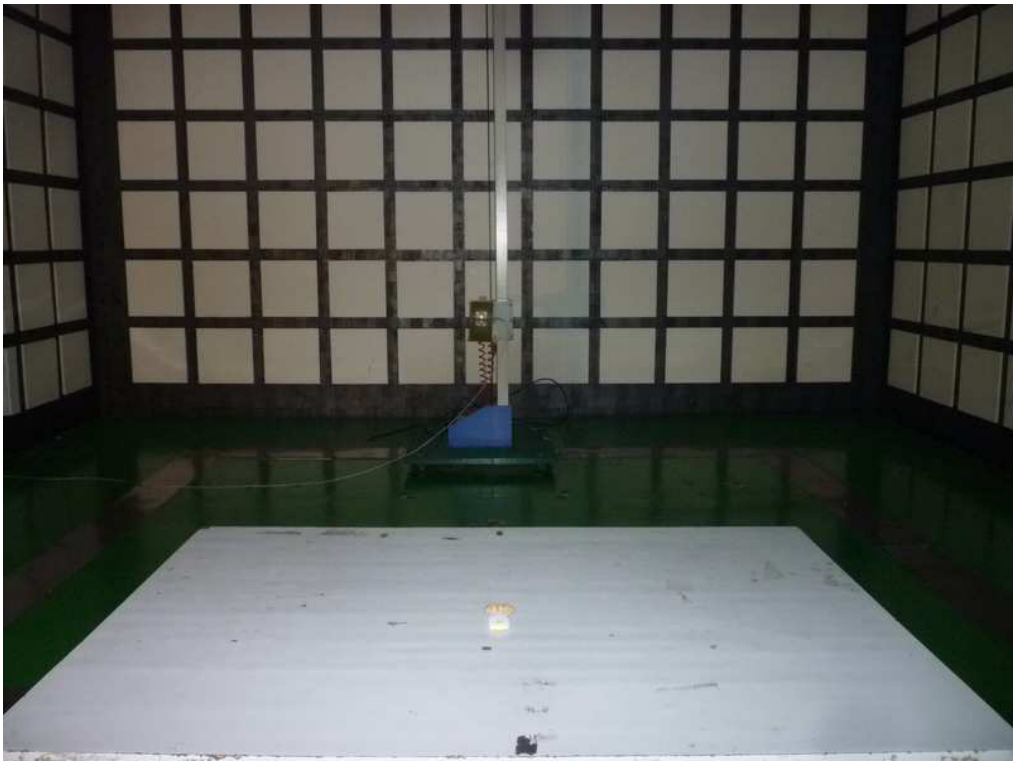
Photograph 3: Set-up for Coducted Emissions

Photograph 4: Set-up for Spurious Emissions, below 30MHz

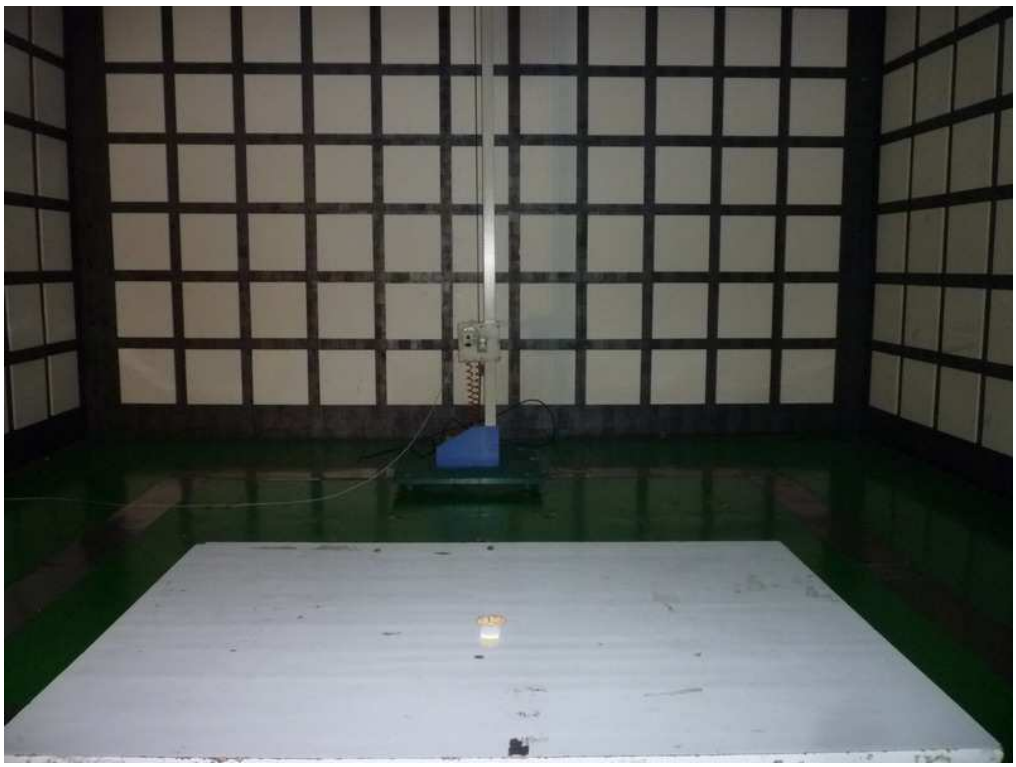


Photograph 5: Set-up for Spurious Emissions (30MHz-1GHz)

Photograph 6: Set-up for Spurious Emissions (1GHz-18GHz)



Photograph 7: Set-up for Spurious Emissions (18GHz-26GHz)



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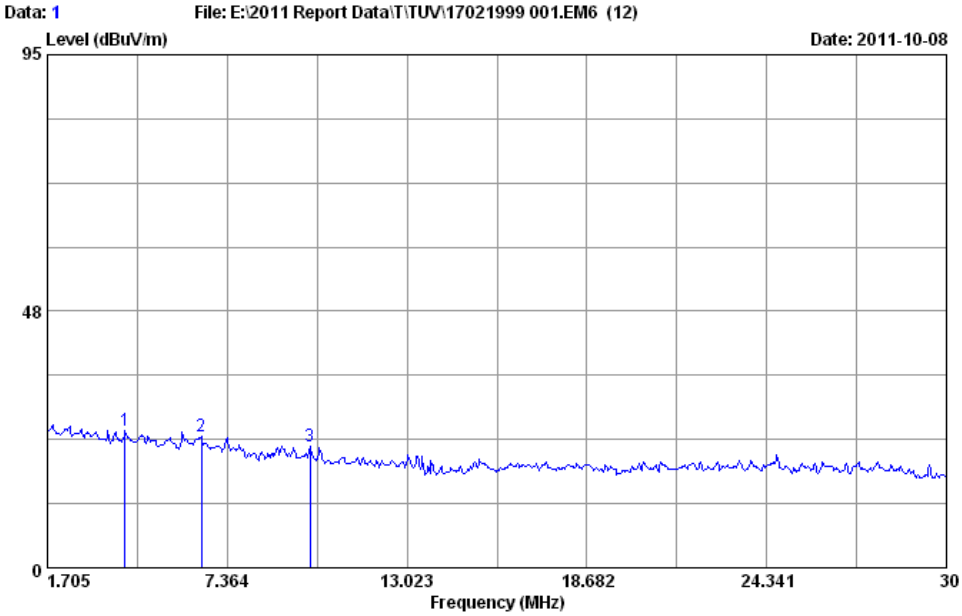
Postcode:518057



Site no. : 10m Chamber
Dis. / Ant. : 10m 2011 LOOP ANTENNA
Limit : FCC 15.225
Env. / Ins. : 24*C/56%
EUT : Bluetooth Motion Sensor
Power rating : DC 3.7V
Test Mode : GFSK 2402MHz Tx

Data no. : 1
Ant. pol. : HORIZONTAL
Engineer : Leo-Li

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4.148	20.76	0.38	4.24	25.38	39.00	13.62	QP
2	6.547	20.91	0.43	2.97	24.31	39.00	14.69	QP
3	9.966	20.50	0.51	1.56	22.57	39.00	16.43	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Figure 2: Test figure of spurious emissions, mode A.1, Vertical polarity (1.705MHz – 30MHz), GFSK Modulation

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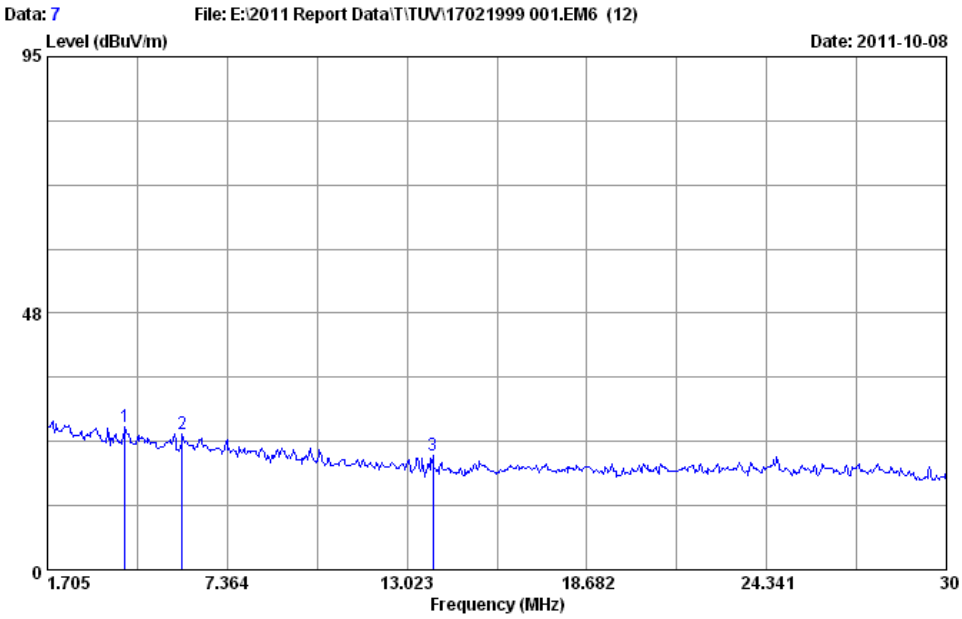

Site no. : 10m Chamber
Dis. / Ant. : 10m 2011 LOOP ANTENNA
Limit : FCC 15.225
Env. / Ins. : 24*C/56%
EUT : Bluetooth Motion Sensor
Power rating : DC 3.7V
Test Mode : GFSK 2402MHz Tx

Data no. : 7
Ant. pol. : VERTICAL
Engineer : Leo-Li

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4.148	20.76	0.38	5.24	26.38	39.00	12.62	QP
2	5.947	20.99	0.41	3.69	25.09	39.00	13.91	QP
3	13.835	21.50	0.52	-0.98	21.04	50.00	28.96	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Figure 3: Test figure of spurious emissions, mode A.1, Horizontal polarity (30MHz – 1GHz), GFSK Modulation

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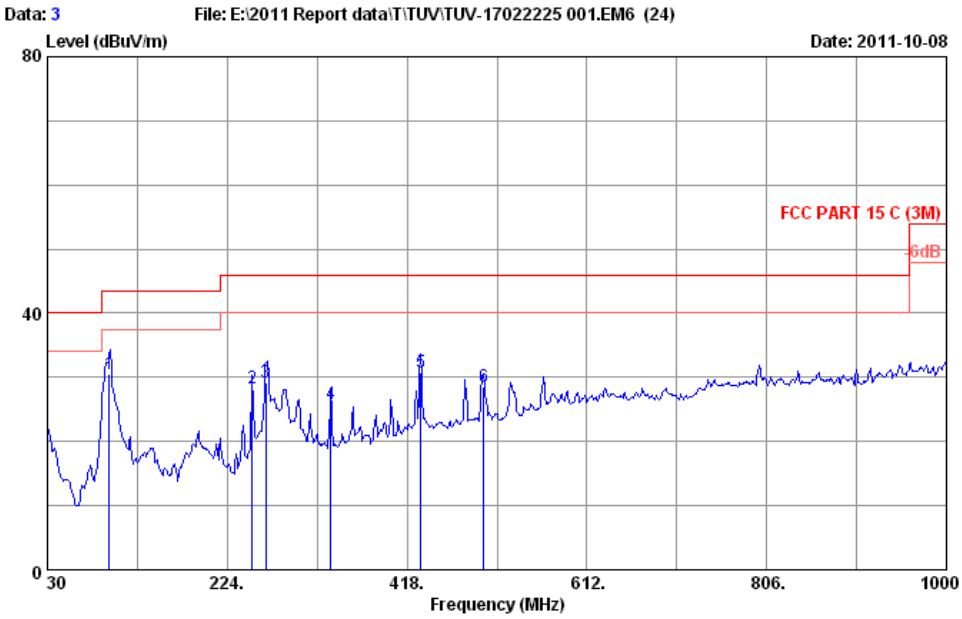
Postcode:518057



Site no. : 3m Chamber
Dis. / Ant. : 3m 2010 CBL6111C 2598
Limit : FCC PART 15 C (3M)
Env. / Ins. : 24*C/56%
EUT : Bluetooth Motion Sensor
Power rating : DC 3.7V
Test Mode : GFSK 2402MHz Tx

Data no. : 3
Ant. pol. : HORIZONTAL
Engineer : Leo _Li

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	96.930	9.98	1.15	19.35	30.48	43.50	13.02	QP
2	251.160	12.90	2.43	13.02	28.35	46.00	17.65	QP
3	265.710	13.70	2.60	12.96	29.26	46.00	16.74	QP
4	335.550	14.62	3.12	8.09	25.83	46.00	20.17	QP
5	432.550	17.42	3.55	9.70	30.67	46.00	15.33	QP
6	500.450	18.30	4.00	6.20	28.50	46.00	17.50	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Figure 4: Test figure of spurious emissions, mode A.1, Vertical polarity (30MHz – 1GHz), GFSK Modulation

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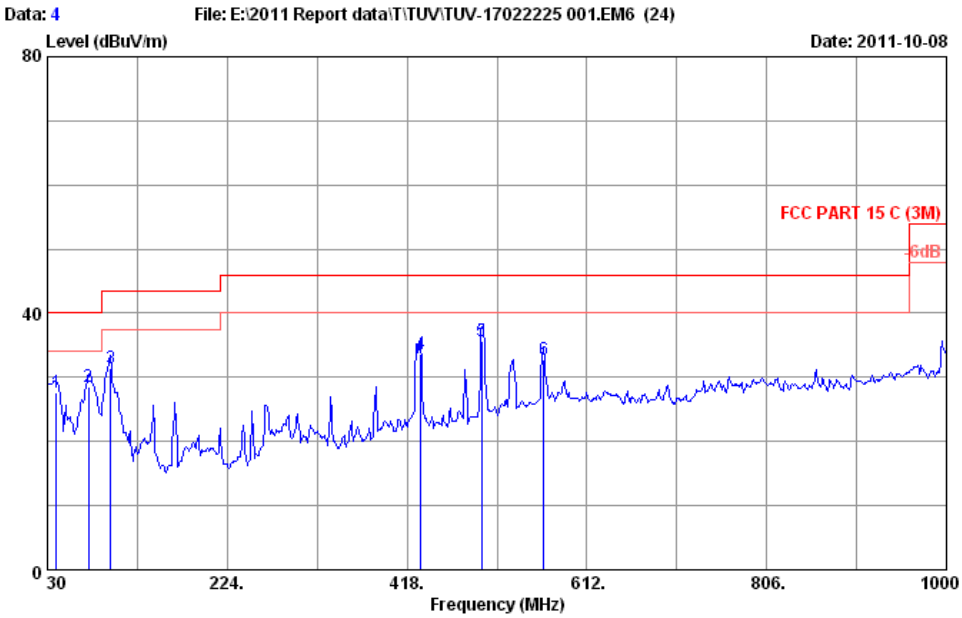

Site no. : 3m Chamber
Dis. / Ant. : 3m 2010 CBL6111C 2598
Limit : FCC PART 15 C (3M)
Env. / Ins. : 24*C/56%
EUT : Bluetooth Motion Sensor
Power rating : DC 3.7V
Test Mode : GFSK 2402MHz Tx

Data no. : 4
Ant. pol. : VERTICAL
Engineer : Leo _Li

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	39.700	14.50	0.71	12.45	27.66	40.00	12.34	QP
2	74.620	7.30	1.00	20.18	28.48	40.00	11.52	QP
3	97.900	10.12	1.16	20.09	31.37	43.50	12.13	QP
4	432.550	17.42	3.55	12.58	33.55	46.00	12.45	QP
5	498.510	18.28	3.99	13.33	35.60	46.00	10.40	QP
6	565.440	19.61	4.32	8.83	32.76	46.00	13.24	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Figure 5: Test figure of spurious emissions, mode A.1, Horizontal polarity (1GHz –18GHz), GFSK Modulation

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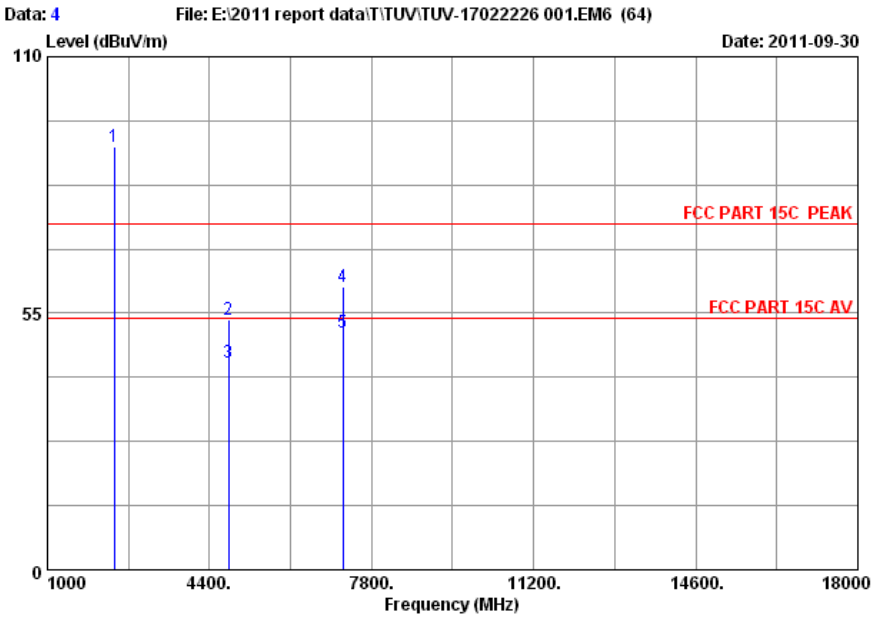


```
Site no.      : 3m Chamber              Data no. :  4
Dis. / Ant.   : 3m   2011 3115 4580      Ant. pol. : HORIZONTAL
Limit         : FCC PART 15C  PEAK
Env. / Ins.   : 23*C/54%                Engineer  : Leo-Li
EUT           : Bluetooth Motion Sensor
Power         : DC 3.7V
Test mode     : GFSK 2402MHz
M/N           :
              :
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2402.000	27.96	6.75	34.44	90.31	90.58	74.00	-16.58	Peak
2	4804.000	32.86	9.55	34.60	45.96	53.77	74.00	20.23	Peak
3	4804.000	32.86	9.55	34.60	36.47	44.28	54.00	9.72	Average
4	7206.000	35.74	11.82	34.72	47.82	60.66	74.00	13.34	Peak
5	7206.000	35.74	11.82	34.72	38.04	50.88	54.00	3.12	Average

Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Figure 6: Test figure of spurious emissions, mode A.1, Vertical polarity (1GHz – 18GHz), GFSK Modulation

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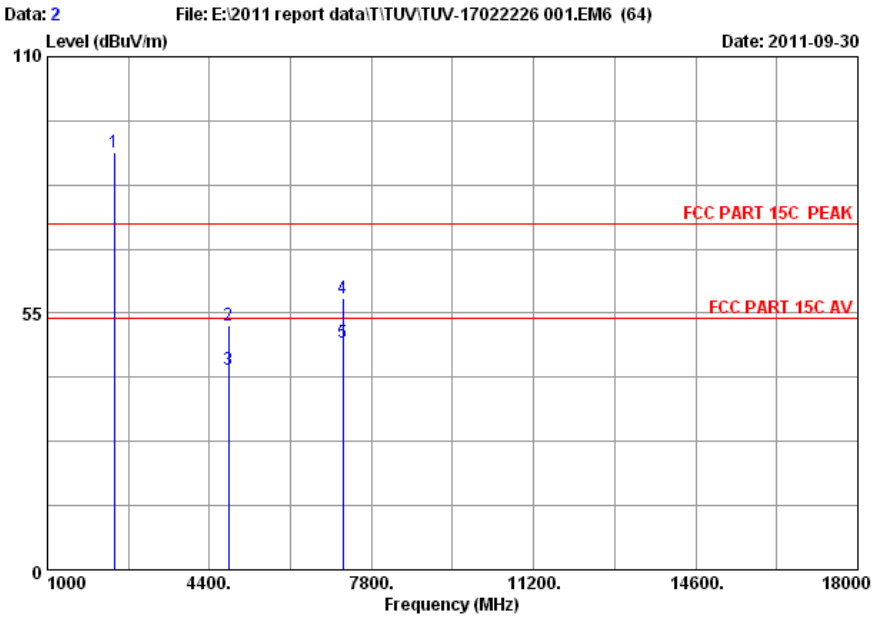


```
Site no.      : 3m Chamber              Data no. :  2
Dis. / Ant.   : 3m   2011 3115 4580      Ant. pol. : VERTICAL
Limit         : FCC PART 15C  PEAK
Env. / Ins.   : 23*C/54%                Engineer  : Leo-Li
EUT           : Bluetooth Motion Sensor
Power         : DC 3.7V
Test mode     : GFSK 2402MHz
M/N           :
              :
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2402.000	27.96	6.75	34.44	89.19	89.46	74.00	-15.46	Peak
2	4804.000	32.86	9.55	34.60	44.56	52.37	74.00	21.63	Peak
3	4804.000	32.86	9.55	34.60	35.09	42.90	54.00	11.10	Average
4	7206.000	35.74	11.82	34.72	45.35	58.19	74.00	15.81	Peak
5	7206.000	35.74	11.82	34.72	35.88	48.72	54.00	5.28	Average

Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Figure 7: Test figure of spurious emissions, mode A.1, Horizontal polarity (18GHz – 26GHz), GFSK Modulation

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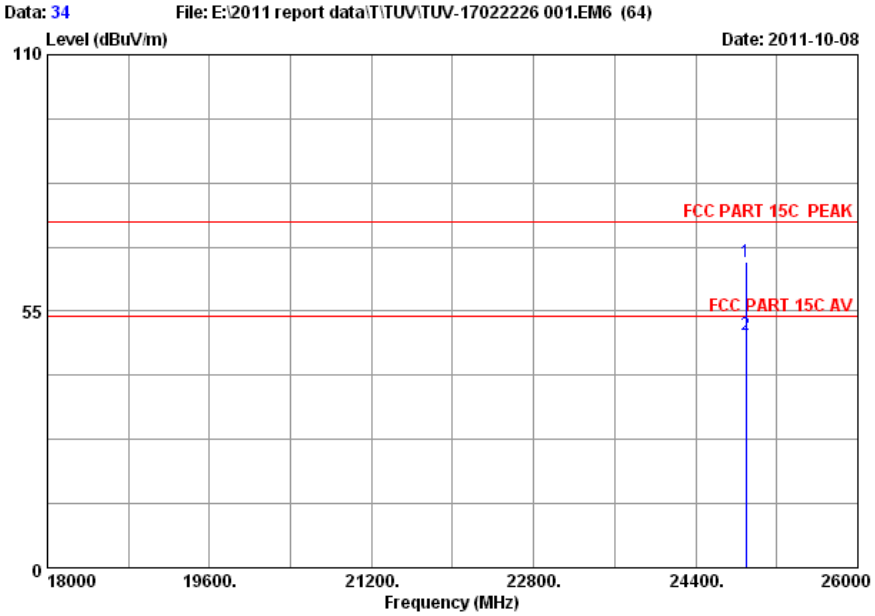

Site no. : 3m Chamber Data no. : 34
Dis. / Ant. : 3m 3116 T Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Leo-Li
EUT : Bluetooth Motion Sensor
Power : DC 3.7V
Test mode : GFSK 2402MHz
M/N :
:

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	24896.000	40.01	20.30	34.88	40.23	65.66	74.00	8.34	Peak
2	24896.000	40.01	20.30	34.88	24.56	49.99	54.00	4.01	Average

Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Figure 8: Test figure of spurious emissions, mode A.1, Vertical polarity (18GHz – 26GHz), GFSK Modulation

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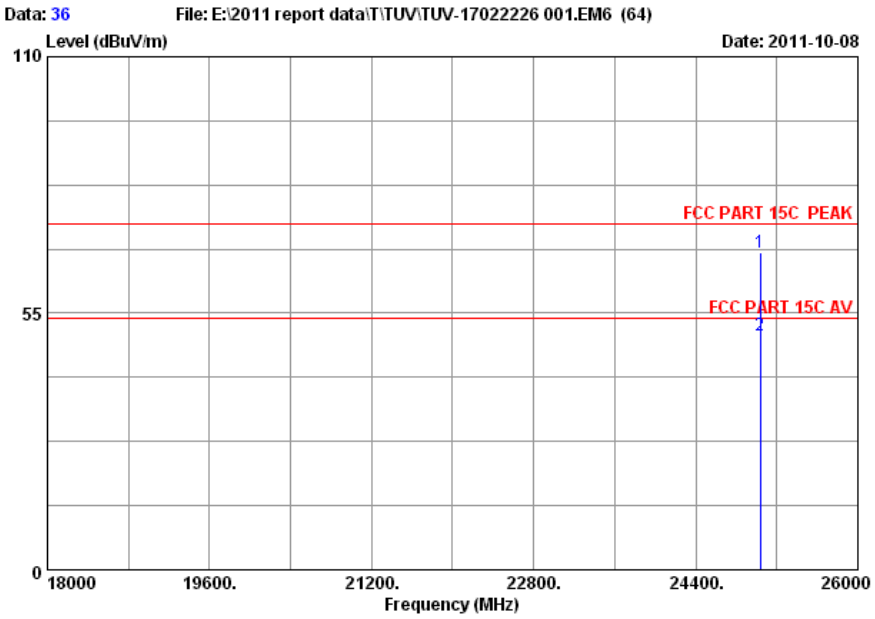


```
Site no.      : 3m Chamber              Data no. :  36
Dis. / Ant.   : 3m   3116 T              Ant. pol. : VERTICAL
Limit         : FCC PART 15C  PEAK
Env. / Ins.   : 23*C/54%                 Engineer  : Leo-Li
EUT           : Bluetooth Motion Sensor
Power         : DC 3.7V
Test mode     : GFSK 2402MHz
M/N           :
              :
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	25040.000	40.13	20.36	34.91	42.33	67.91	74.00	6.09	Peak
2	25040.000	40.13	20.36	34.91	24.54	50.12	54.00	3.88	Average

Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Figure 9: Test figure of spurious emissions, mode A.2, Horizontal polarity (1.705MHz – 30MHz), GFSK Modulation

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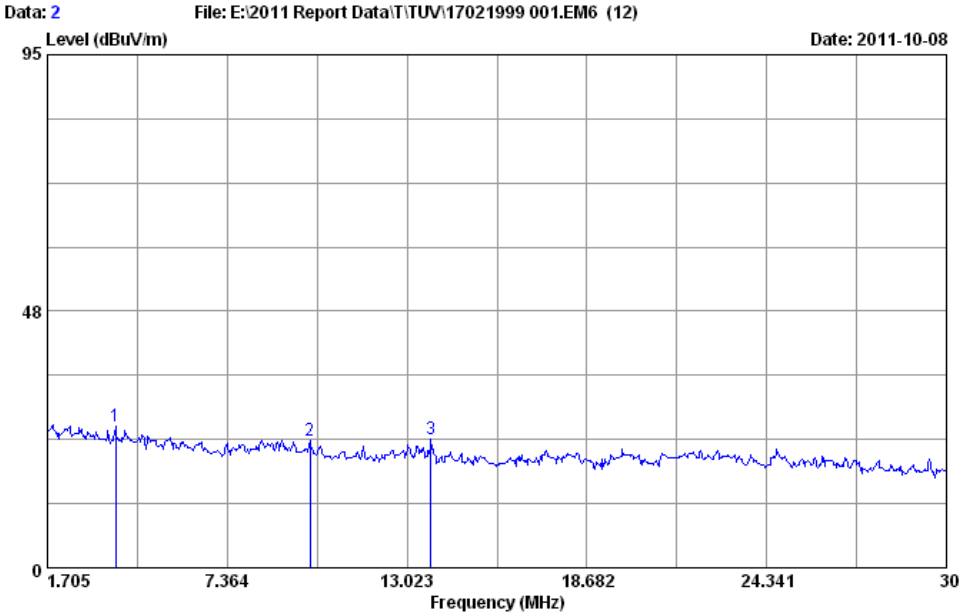

Site no. : 10m Chamber
Dis. / Ant. : 10m 2011 LOOP ANTENNA
Limit : FCC 15.225
Env. / Ins. : 24*C/56%
EUT : Bluetooth Motion Sensor
Power rating : DC 3.7V
Test Mode : GFSK 2441MHz Tx

Data no. : 2
Ant. pol. : HORIZONTAL
Engineer : Leo-Li

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	3.848	20.53	0.37	5.26	26.16	39.00	12.84	QP
2	9.966	20.50	0.51	2.56	23.57	39.00	15.43	QP
3	13.775	21.48	0.52	1.74	23.74	50.00	26.26	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Figure 10: Test figure of spurious emissions, mode A.2, Vertical polarity (1.705MHz – 30MHz), GFSK Modulation

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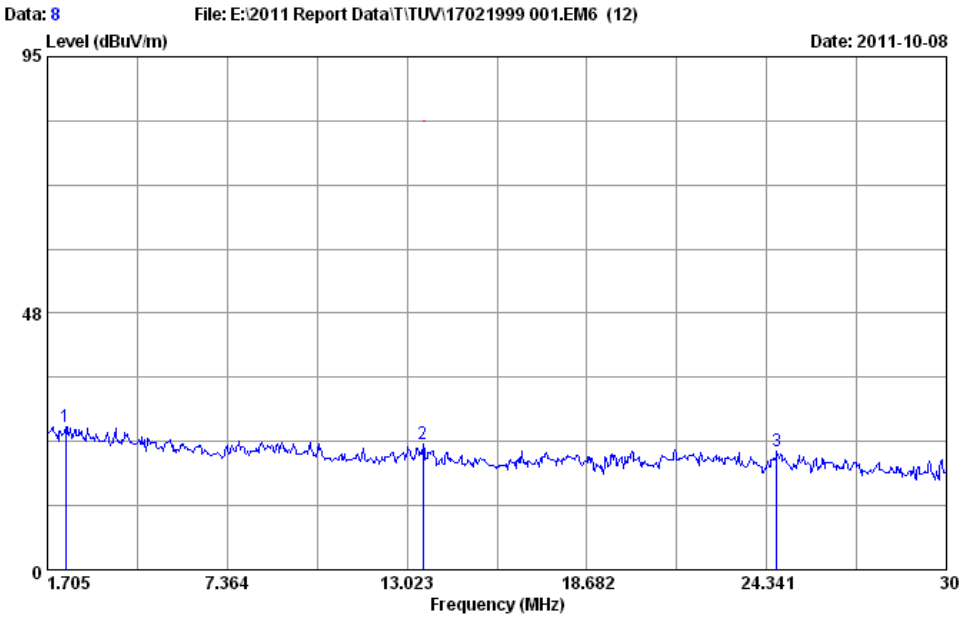

Site no. : 10m Chamber
Dis. / Ant. : 10m 2011 LOOP ANTENNA
Limit : FCC 15.225
Env. / Ins. : 24*C/56%
EUT : Bluetooth Motion Sensor
Power rating : DC 3.7V
Test Mode : GFSK 2441MHz Tx

Data no. : 8
Ant. pol. : VERTICAL
Engineer : Leo-Li

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2.288	19.60	0.34	6.63	26.57	39.00	12.43	QP
2	13.535	21.42	0.52	1.37	23.31	60.00	36.69	QP
3	24.662	21.91	0.54	-0.53	21.92	39.00	17.08	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Figure 11: Test figure of spurious emissions, mode A.2, Horizontal polarity (30MHz – 1GHz), GFSK Modulation

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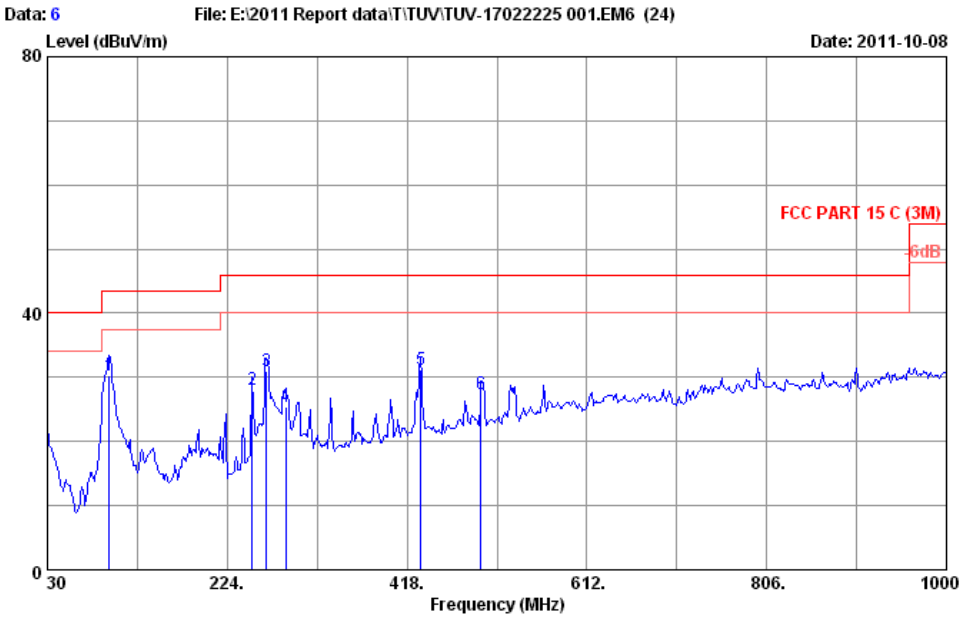

Site no. : 3m Chamber
Dis. / Ant. : 3m 2010 CBL6111C 2598
Limit : FCC PART 15 C (3M)
Env. / Ins. : 24*C/56%
EUT : Bluetooth Motion Sensor
Power rating : DC 3.7V
Test Mode : GFSK 2441MHz Tx

Data no. : 6
Ant. pol. : HORIZONTAL
Engineer : Leo _Li

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	96.930	9.98	1.15	19.24	30.37	43.50	13.13	QP
2	251.160	12.90	2.43	12.69	28.02	46.00	17.98	QP
3	266.680	13.60	2.61	14.67	30.88	46.00	15.12	QP
4	287.050	13.48	2.85	8.97	25.30	46.00	20.70	QP
5	432.550	17.42	3.55	10.31	31.28	46.00	14.72	QP
6	497.540	18.27	3.99	5.15	27.41	46.00	18.59	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Figure 12: Test figure of spurious emissions, mode A.2, Vertical polarity (30MHz – 1GHz), GFSK Modulation

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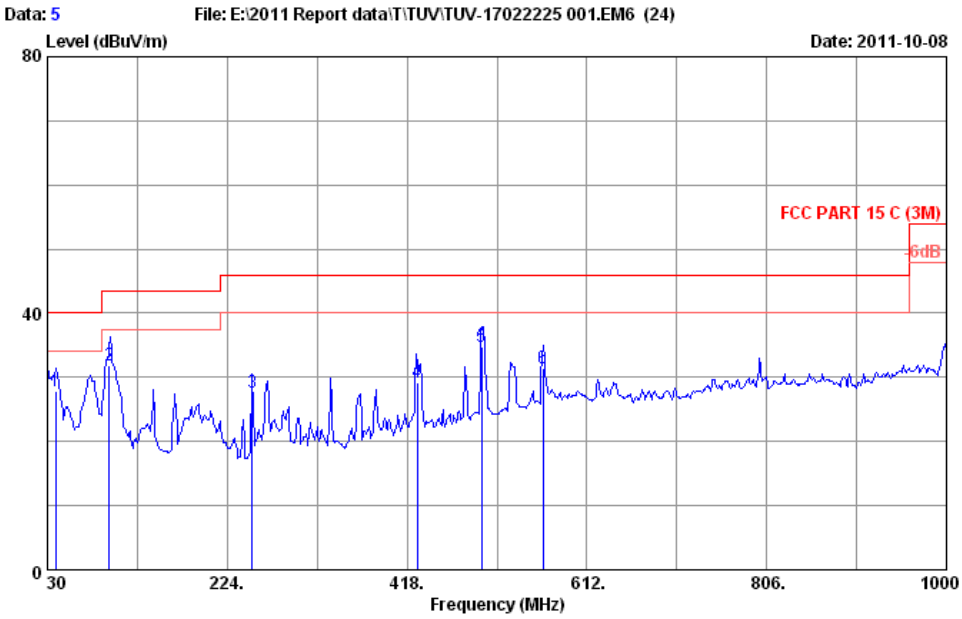

Site no. : 3m Chamber
Dis. / Ant. : 3m 2010 CBL6111C 2598
Limit : FCC PART 15 C (3M)
Env. / Ins. : 24*C/56%
EUT : Bluetooth Motion Sensor
Power rating : DC 3.7V
Test Mode : GFSK 2441MHz Tx

Data no. : 5
Ant. pol. : VERTICAL
Engineer : Leo _Li

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	38.730	15.04	0.70	12.21	27.95	40.00	12.05	QP
2	96.930	9.98	1.15	20.71	31.84	43.50	11.66	QP
3	251.160	12.90	2.43	12.27	27.60	46.00	18.40	QP
4	428.670	17.45	3.52	8.17	29.14	46.00	16.86	QP
5	498.510	18.28	3.99	12.47	34.74	46.00	11.26	QP
6	564.470	19.59	4.32	7.42	31.33	46.00	14.67	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Figure 13: Test figure of spurious emissions, mode A.2, Horizontal polarity (1GHz – 18GHz), GFSK Modulation

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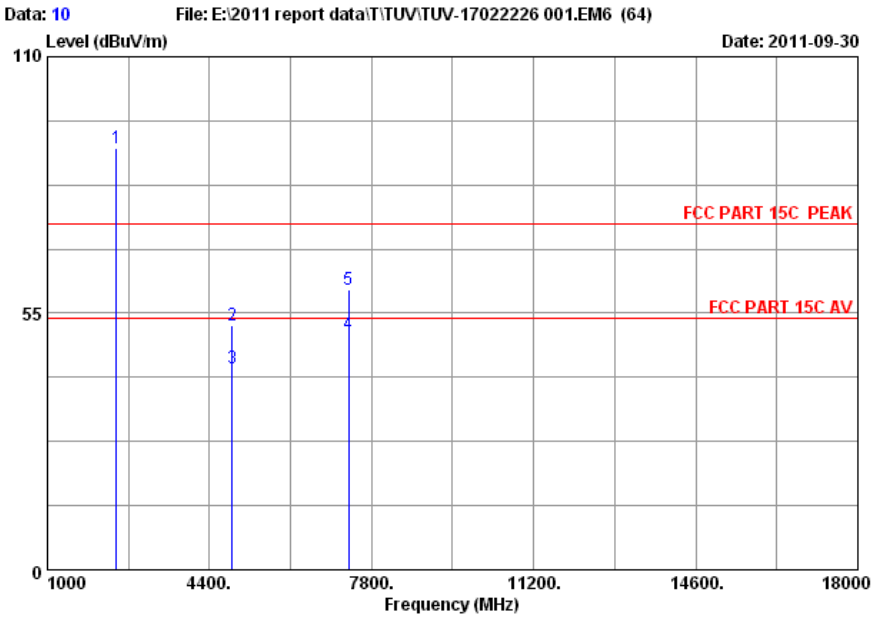

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Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Leo-Li
EUT : Bluetooth Motion Sensor
Power : DC 3.7V
Test mode : GFSK 2441MHz
M/N :
:

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2441.000	28.03	6.81	34.44	90.01	90.41	74.00	-16.41	Peak
2	4882.000	32.98	9.62	34.60	44.53	52.53	74.00	21.47	Peak
3	4882.000	32.98	9.62	34.60	35.06	43.06	54.00	10.94	Average
4	7323.000	36.05	11.89	34.73	37.35	50.56	54.00	3.44	Average
5	7323.000	36.05	11.89	34.73	46.82	60.03	74.00	13.97	Peak

Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Figure 14: Test figure of spurious emissions, mode A.2, Vertical polarity (1GHz – 18GHz), GFSK Modulation

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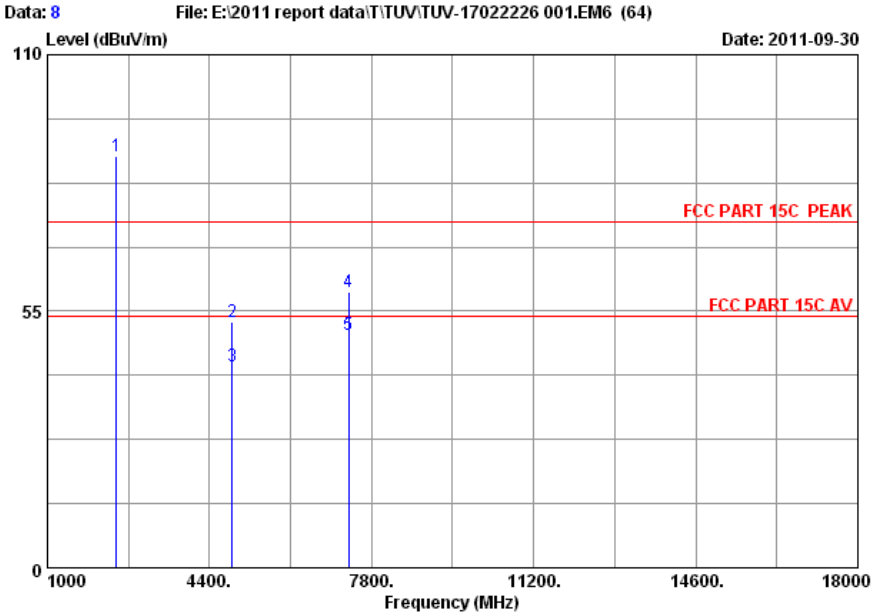

Site no. : 3m Chamber Data no. : 8
Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Leo-Li
EUT : Bluetooth Motion Sensor
Power : DC 3.7V
Test mode : GFSK 2441MHz
M/N :
:

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2441.000	28.03	6.81	34.44	87.73	88.13	74.00	-14.13	Peak
2	4882.000	32.98	9.62	34.60	44.78	52.78	74.00	21.22	Peak
3	4882.000	32.98	9.62	34.60	35.31	43.31	54.00	10.69	Average
4	7323.000	36.05	11.89	34.73	46.06	59.27	74.00	14.73	Peak
5	7323.000	36.05	11.89	34.73	36.59	49.80	54.00	4.20	Average

Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Figure 15: Test figure of spurious emissions, mode A.2, Horizontal polarity (18GHz – 26GHz), GFSK Modulation

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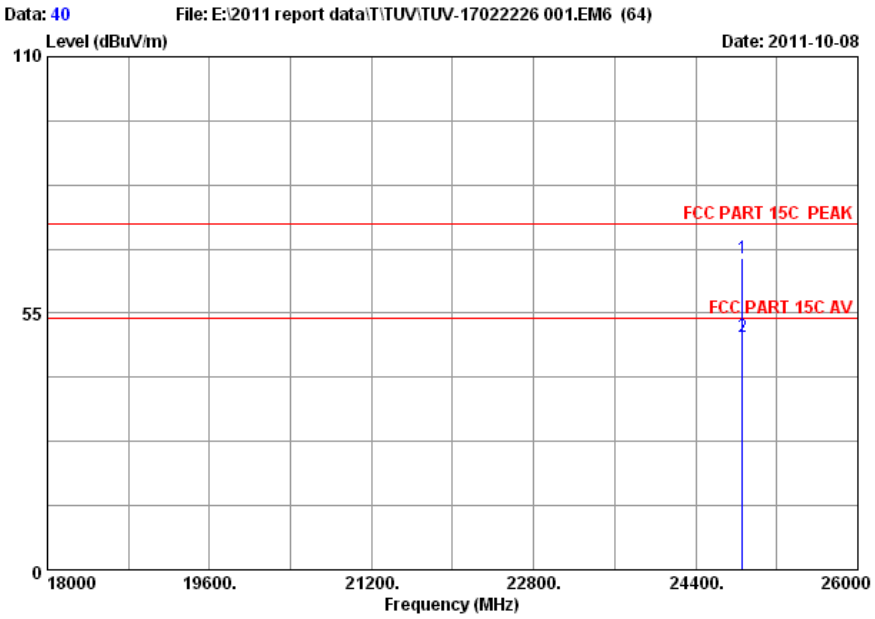

Site no. : 3m Chamber Data no. : 40
Dis. / Ant. : 3m 3116 T Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Leo-Li
EUT : Bluetooth Motion Sensor
Power : DC 3.7V
Test mode : GFSK 2441MHz
M/N :
:

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	24864.000	40.00	20.29	34.88	41.23	66.64	74.00	7.36	Peak
2	24864.000	40.00	20.29	34.88	24.56	49.97	54.00	4.03	Average

Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Figure 16: Test figure of spurious emissions, mode A.2, Vertical polarity (18GHz – 26GHz), GFSK Modulation

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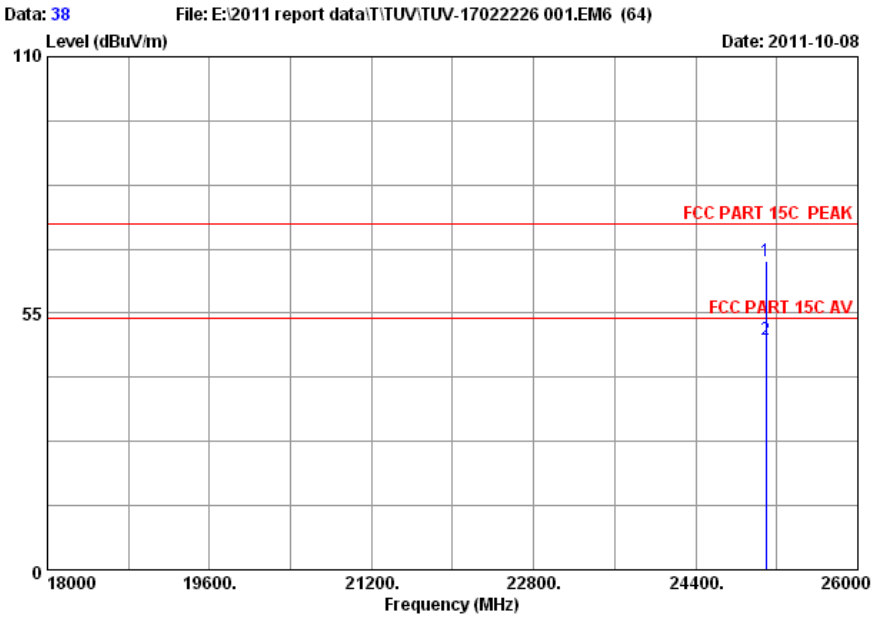


```
Site no.      : 3m Chamber              Data no. :  38
Dis. / Ant.   : 3m   3116 T              Ant. pol. : VERTICAL
Limit         : FCC PART 15C  PEAK
Env. / Ins.   : 23*C/54%                 Engineer  : Leo-Li
EUT           : Bluetooth Motion Sensor
Power         : DC 3.7V
Test mode     : GFSK 2441MHz
M/N           :
              :
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	25096.000	40.19	20.39	34.92	40.38	66.04	74.00	7.96	Peak
2	25096.000	40.19	20.39	34.92	23.53	49.19	54.00	4.81	Average

Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Figure 17: Test figure of spurious emissions, mode A.3, Horizontal polarity (1.705MHz – 30MHz), GFSK Modulation

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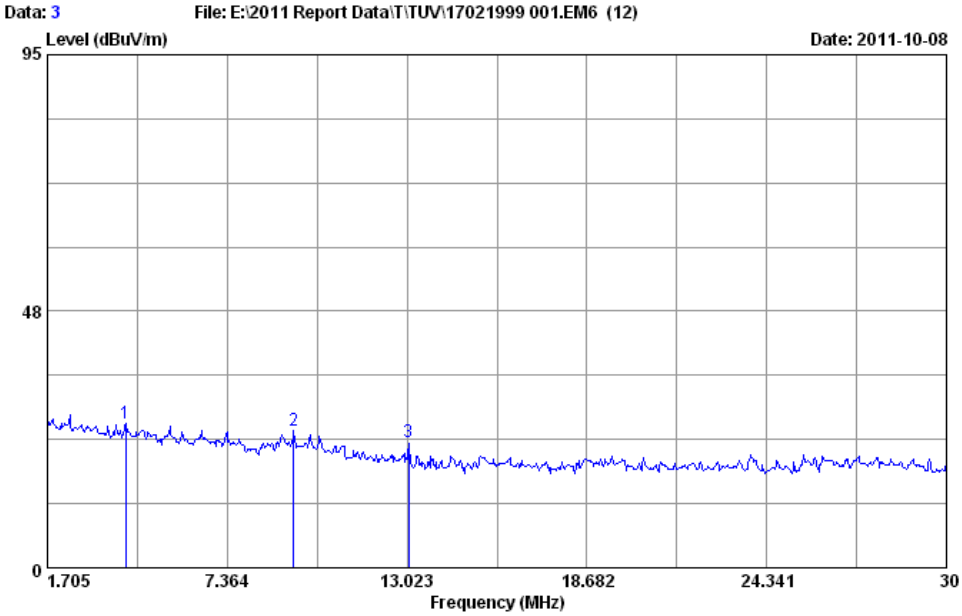

Site no. : 10m Chamber
Dis. / Ant. : 10m 2011 LOOP ANTENNA
Limit : FCC 15.225
Env. / Ins. : 24*C/56%
EUT : Bluetooth Motion Sensor
Power rating : DC 3.7V
Test Mode : GFSK 2480MHz Tx

Data no. : 3
Ant. pol. : HORIZONTAL
Engineer : Leo-Li

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4.178	20.77	0.38	5.60	26.75	39.00	12.25	QP
2	9.456	20.56	0.50	4.26	25.32	39.00	13.68	QP
3	13.085	21.30	0.52	1.53	23.35	39.00	15.65	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Figure 18: Test figure of spurious emissions, mode A.3, Vertical polarity (1.705MHz – 30MHz), GFSK Modulation

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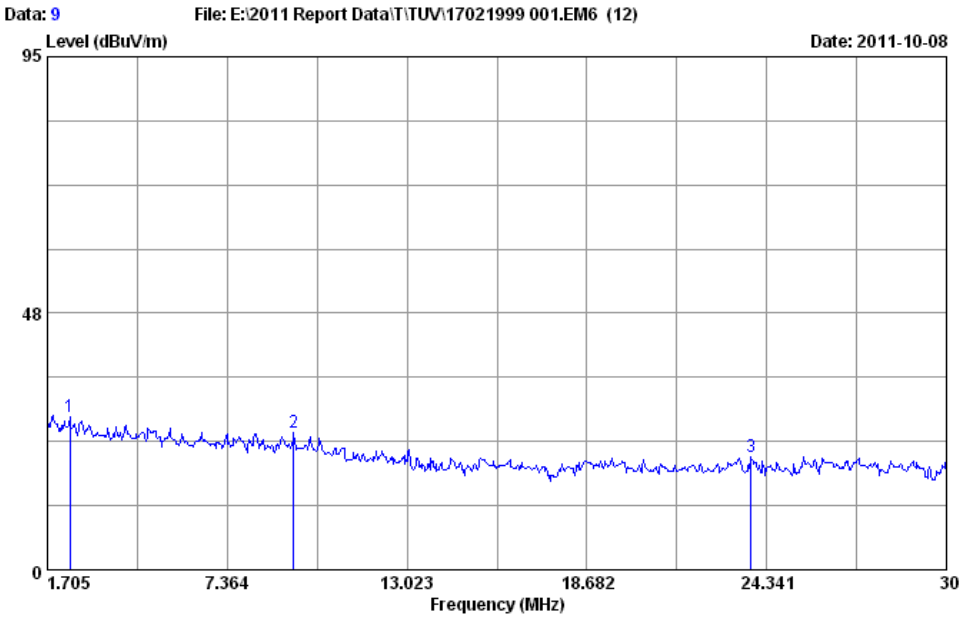

Site no. : 10m Chamber
Dis. / Ant. : 10m 2011 LOOP ANTENNA
Limit : FCC 15.225
Env. / Ins. : 24*C/56%
EUT : Bluetooth Motion Sensor
Power rating : DC 3.7V
Test Mode : GFSK 2480MHz Tx

Data no. : 9
Ant. pol. : VERTICAL
Engineer : Leo-Li

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2.408	19.60	0.34	8.33	28.27	39.00	10.73	QP
2	9.456	20.56	0.50	4.26	25.32	39.00	13.68	QP
3	23.852	21.95	0.54	-1.65	20.84	39.00	18.16	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Figure 19: Test figure of spurious emissions, mode A.3, Horizontal polarity (30MHz – 1GHz), GFSK Modulation

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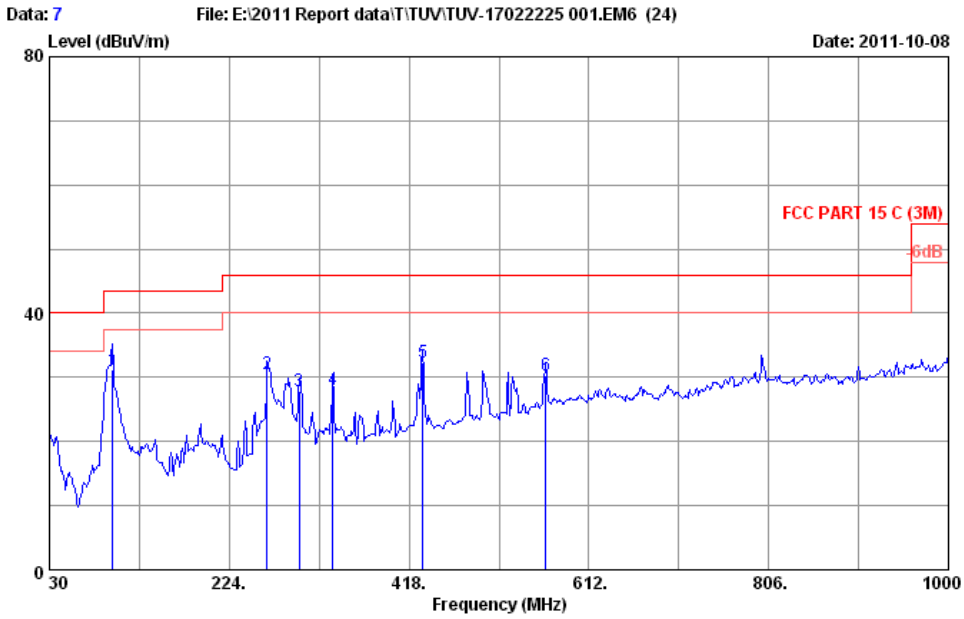

Site no. : 3m Chamber
Dis. / Ant. : 3m 2010 CBL6111C 2598
Limit : FCC PART 15 C (3M)
Env. / Ins. : 24*C/56%
EUT : Bluetooth Motion Sensor
Power rating : DC 3.7V
Test Mode : GFSK 2480MHz Tx

Data no. : 7
Ant. pol. : HORIZONTAL
Engineer : Leo _Li

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	97.900	10.12	1.16	19.94	31.22	43.50	12.28	QP
2	264.740	13.80	2.59	14.08	30.47	46.00	15.53	QP
3	299.660	13.70	3.00	11.22	27.92	46.00	18.08	QP
4	335.550	14.62	3.12	10.43	28.17	46.00	17.83	QP
5	432.550	17.42	3.55	11.24	32.21	46.00	13.79	QP
6	565.440	19.61	4.32	6.33	30.26	46.00	15.74	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Figure 20: Test figure of spurious emissions, mode A.3, Vertical polarity (30MHz – 1GHz), GFSK Modulation

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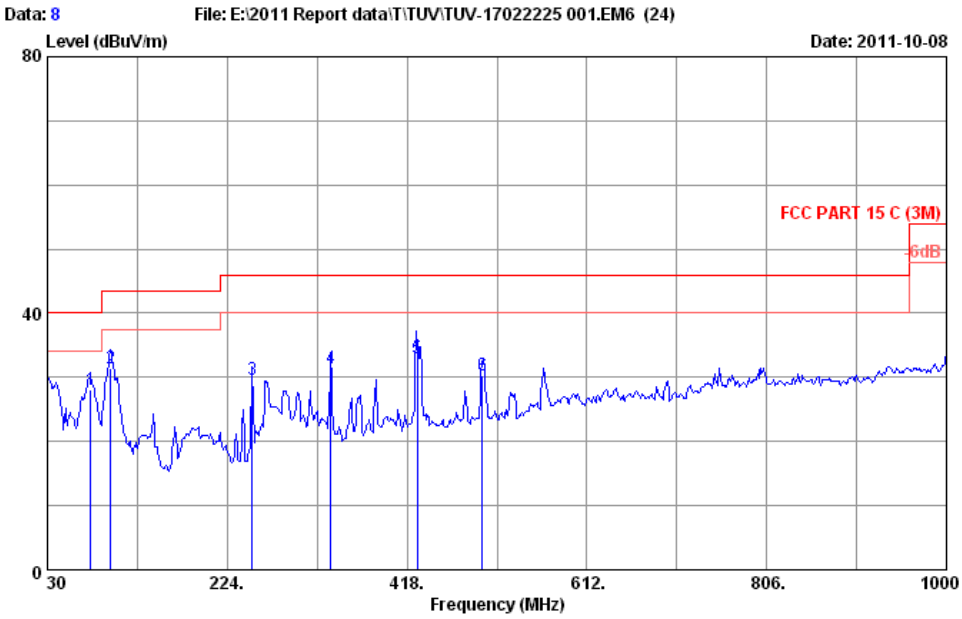

Site no. : 3m Chamber
Dis. / Ant. : 3m 2010 CBL6111C 2598
Limit : FCC PART 15 C (3M)
Env. / Ins. : 24*C/56%
EUT : Bluetooth Motion Sensor
Power rating : DC 3.7V
Test Mode : GFSK 2480MHz Tx

Data no. : 8
Ant. pol. : VERTICAL
Engineer : Leo _Li

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	76.560	7.47	1.01	19.66	28.14	40.00	11.86	QP
2	97.900	10.12	1.16	20.14	31.42	43.50	12.08	QP
3	251.160	12.90	2.43	14.25	29.58	46.00	16.42	QP
4	335.550	14.62	3.12	13.76	31.50	46.00	14.50	QP
5	428.670	17.45	3.52	11.90	32.87	46.00	13.13	QP
6	499.480	18.29	3.99	8.12	30.40	46.00	15.60	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Figure 21: Test figure of spurious emissions, mode A.3, Horizontal polarity (1GHz –18GHz), GFSK Modulation

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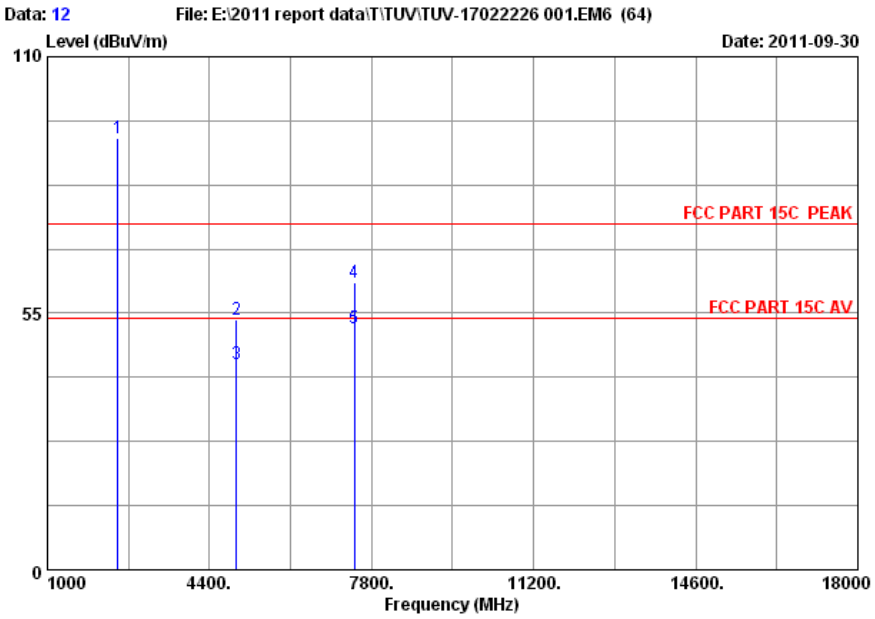

Site no. : 3m Chamber Data no. : 12
Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Leo-Li
EUT : Bluetooth Motion Sensor
Power : DC 3.7V
Test mode : GFSK 2480MHz
M/N :
:

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.000	28.08	6.87	34.45	91.90	92.40	74.00	-18.40	Peak
2	4960.000	33.14	9.69	34.60	45.32	53.55	74.00	20.45	Peak
3	4960.000	33.14	9.69	34.60	35.85	44.08	54.00	9.92	Average
4	7440.000	36.37	11.95	34.74	47.86	61.44	74.00	12.56	Peak
5	7440.000	36.37	11.95	34.74	38.06	51.64	54.00	2.36	Average

Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Figure 22: Test figure of spurious emissions, mode A.3, Vertical polarity (1GHz – 18GHz), GFSK Modulation

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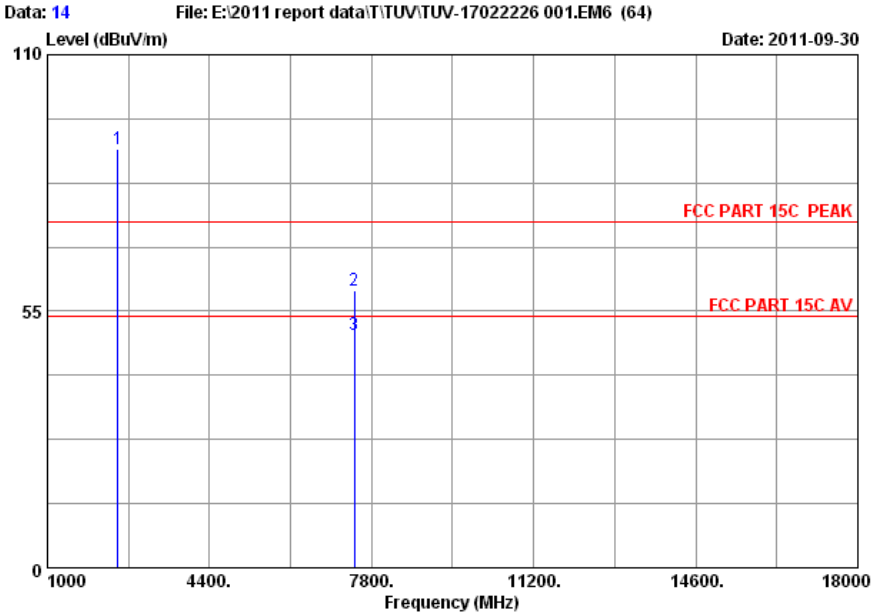

Site no. : 3m Chamber Data no. : 14
Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Leo-Li
EUT : Bluetooth Motion Sensor
Power : DC 3.7V
Test mode : GFSK 2480MHz
M/N :
:

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.000	28.08	6.87	34.45	89.20	89.70	74.00	-15.70	Peak
2	7440.000	36.37	11.95	34.74	45.99	59.57	74.00	14.43	Peak
3	7440.000	36.37	11.95	34.74	36.51	50.09	54.00	3.91	Average

Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Figure 23: Test figure of spurious emissions, mode A.3, Horizontal polarity (18GHz – 26GHz), GFSK Modulation

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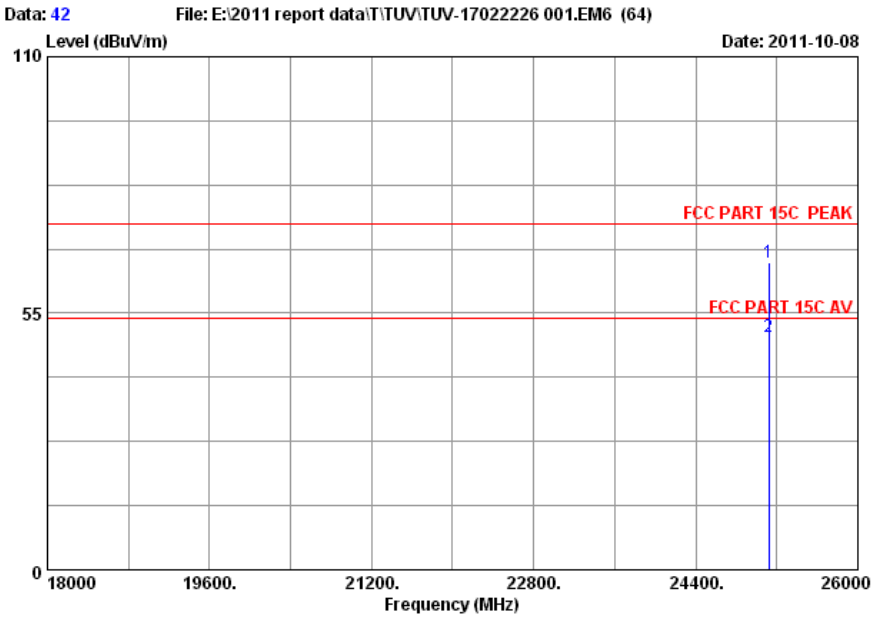


```
Site no.      : 3m Chamber              Data no. :  42
Dis. / Ant.   : 3m   3116 T              Ant. pol. : HORIZONTAL
Limit         : FCC PART 15C  PEAK
Env. / Ins.   : 23*C/54%                 Engineer  : Leo-Li
EUT           : Bluetooth Motion Sensor
Power         : DC 3.7V
Test mode     : GFSK 2480MHz
M/N           :
              :
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	25120.000	40.20	20.40	34.92	40.23	65.91	74.00	8.09	Peak
2	25120.000	40.20	20.40	34.92	24.27	49.95	54.00	4.05	Average

Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Figure 24: Test figure of spurious emissions, mode A.3, Vertical polarity (18GHz – 26GHz), GFSK Modulation

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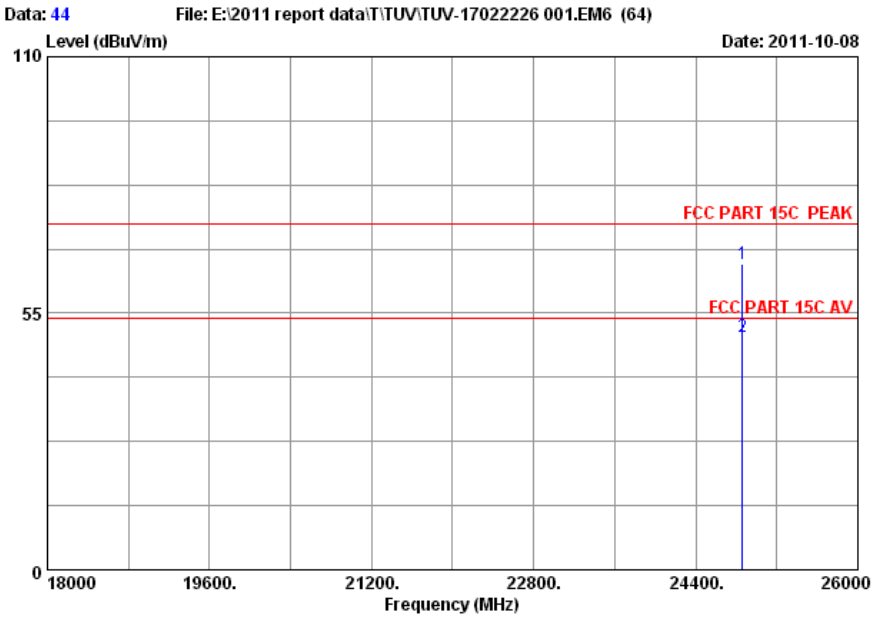


```
Site no.      : 3m Chamber              Data no. :  44
Dis. / Ant.   : 3m   3116 T              Ant. pol. : VERTICAL
Limit         : FCC PART 15C  PEAK
Env. / Ins.   : 23*C/54%                 Engineer  : Leo-Li
EUT           : Bluetooth Motion Sensor
Power         : DC 3.7V
Test mode     : GFSK 2480MHz
M/N           :
              :
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	24864.000	40.00	20.29	34.88	40.17	65.58	74.00	8.42	Peak
2	24864.000	40.00	20.29	34.88	24.67	50.08	54.00	3.92	Average

Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Figure 25: Test figure of spurious emissions, mode A.1, Horizontal polarity (1.705MHz – 30MHz), 8DPSK Modulation

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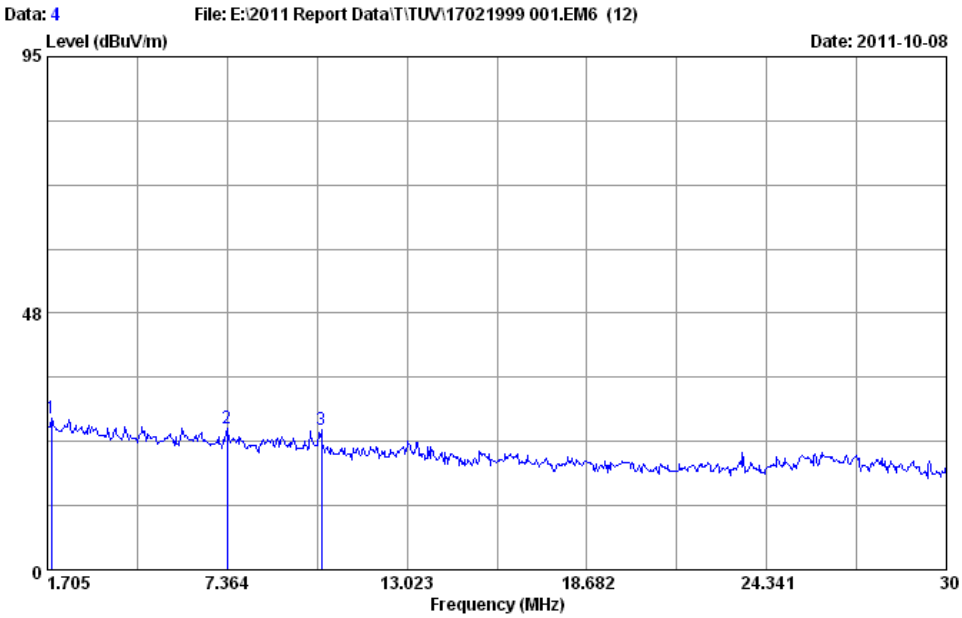

Site no. : 10m Chamber
Dis. / Ant. : 10m 2011 LOOP ANTENNA
Limit : FCC 15.225
Env. / Ins. : 24*C/56%
EUT : Bluetooth Motion Sensor
Power rating : DC 3.7V
Test Mode : 8DPSK 2402MHz Tx

Data no. : 4
Ant. pol. : HORIZONTAL
Engineer : Leo-Li

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1.838	19.75	0.33	7.96	28.04	39.00	10.96	QP
2	7.357	20.82	0.45	4.85	26.12	39.00	12.88	QP
3	10.326	20.59	0.51	4.80	25.90	39.00	13.10	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Figure 26: Test figure of spurious emissions, mode A.1, Vertical polarity (1.705MHz – 30MHz), 8DPSK Modulation

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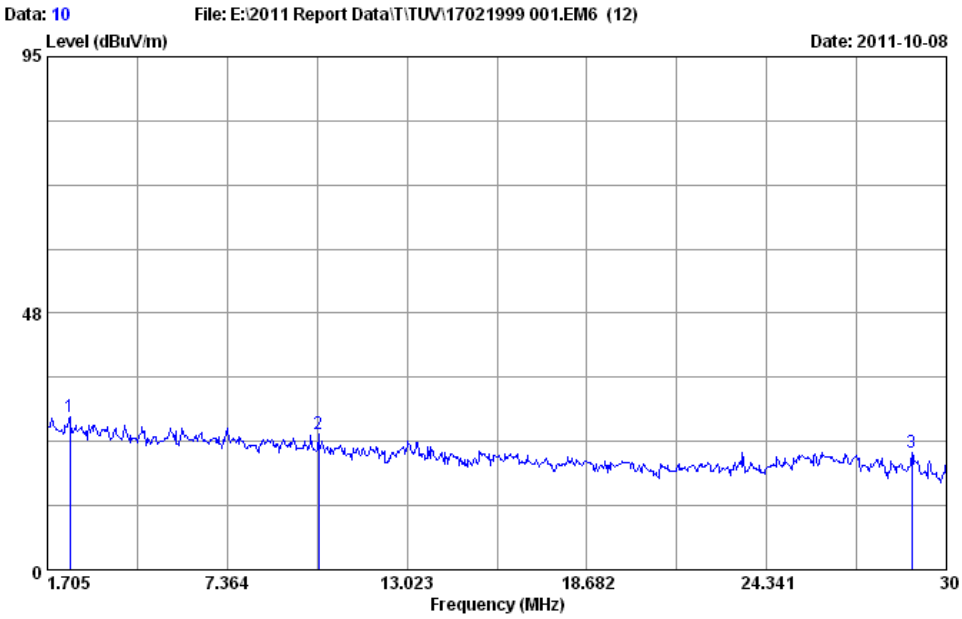

Site no. : 10m Chamber
Dis. / Ant. : 10m 2011 LOOP ANTENNA
Limit : FCC 15.225
Env. / Ins. : 24*C/56%
EUT : Bluetooth Motion Sensor
Power rating : DC 3.7V
Test Mode : 8DPSK 2402MHz Tx

Data no. : 10
Ant. pol. : VERTICAL
Engineer : Leo-Li

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2.408	19.60	0.34	8.33	28.27	39.00	10.73	QP
2	10.236	20.56	0.51	4.16	25.23	39.00	13.77	QP
3	28.920	22.92	0.54	-1.67	21.79	39.00	17.21	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Figure 27: Test figure of spurious emissions, mode A.1, Horizontal polarity (30MHz – 1GHz), 8DPSK Modulation

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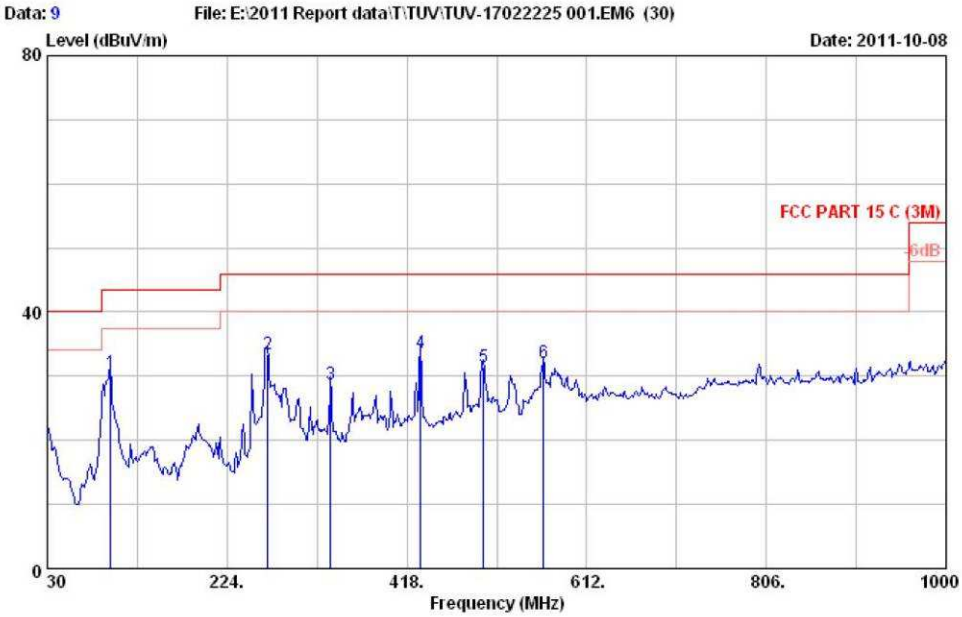


```
Site no.      : 3m Chamber                    Data no.   : 9
Dis. / Ant.   : 3m   2010 CBL6111C 2598       Ant. pol.  : HORIZONTAL
Limit         : FCC PART 15 C (3M)
Env. / Ins.   : 24*C/56%                      Engineer   : Leo _Li
EUT           : Bluetooth Motion Sensor
Power rating  : DC 5V From PC Input AC 120V/60Hz
Test Mode     : 8DPSK Tx 2402MHz
```

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	97.900	10.12	1.16	19.15	30.43	43.50	13.07	QP
2	267.650	13.50	2.63	17.36	33.49	46.00	12.51	QP
3	335.550	14.62	3.12	11.09	28.83	46.00	17.17	QP
4	432.550	17.42	3.55	12.70	33.67	46.00	12.33	QP
5	500.450	18.30	4.00	9.20	31.50	46.00	14.50	QP
6	565.440	19.61	4.32	8.10	32.03	46.00	13.97	QP

```
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
         2. The emission levels that are 20dB below the official
            limit are not reported.
```

Figure 28: Test figure of spurious emissions, mode A.1, Vertical polarity (30MHz – 1GHz), 8DPSK Modulation

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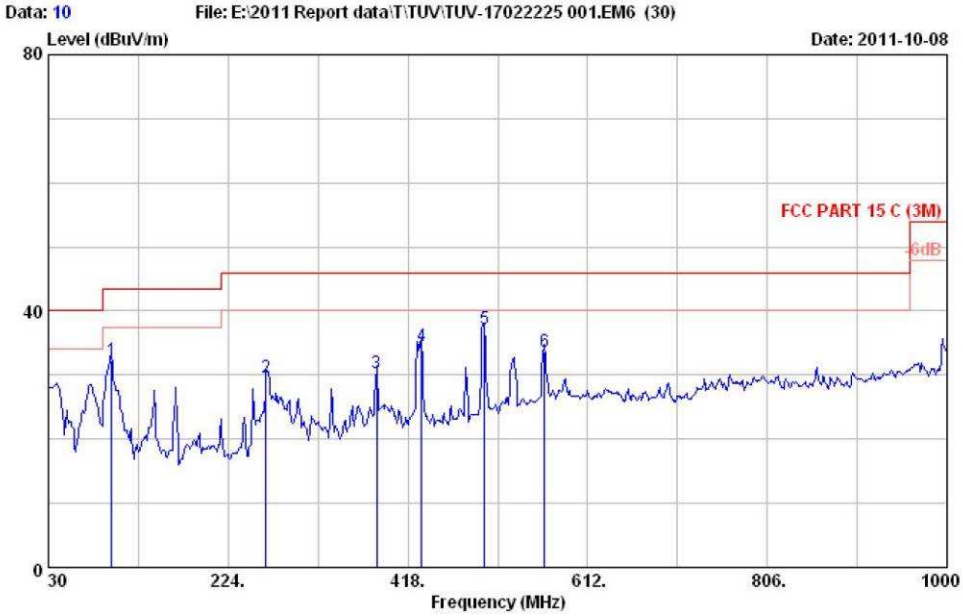


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Site no.      : 3m Chamber                  Data no.  : 10
Dis. / Ant.   : 3m   2010 CBL6111C 2598     Ant. pol. : VERTICAL
Limit         : FCC PART 15 C (3M)
Env. / Ins.   : 24*C/56%                    Engineer  : Leo _Li
EUT           : Bluetooth Motion Sensor
Power rating  : DC 5V From PC Input AC 120V/60Hz
Test Mode     : 8DPSK Tx 2402MHz
```

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	97.900	10.12	1.16	21.09	32.37	43.50	11.13	QP
2	264.740	13.80	2.59	13.33	29.72	46.00	16.28	QP
3	384.050	15.94	3.28	11.19	30.41	46.00	15.59	QP
4	432.550	17.42	3.55	13.58	34.55	46.00	11.45	QP
5	500.450	18.30	4.00	14.91	37.21	46.00	8.79	QP
6	565.440	19.61	4.32	9.83	33.76	46.00	12.24	QP

```
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
         2. The emission levels that are 20dB below the official
            limit are not reported.
```

Figure 29: Test figure of spurious emissions, mode A.1, Horizontal polarity (1GHz –18GHz), 8DPSK Modulation

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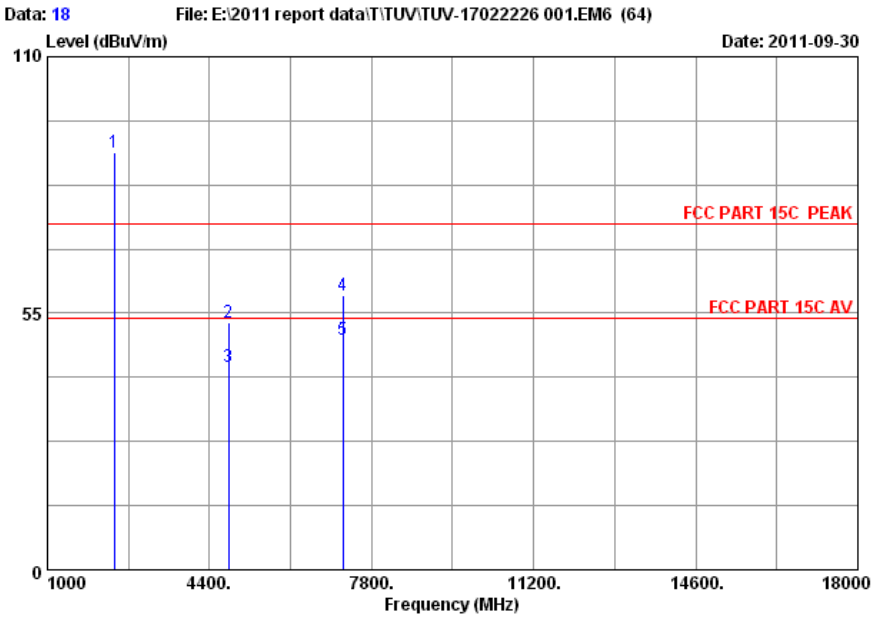


```
Site no.      : 3m Chamber              Data no. :  18
Dis. / Ant.   : 3m   2011 3115 4580     Ant. pol. : HORIZONTAL
Limit         : FCC PART 15C  PEAK
Env. / Ins.   : 23*C/54%                Engineer  : Leo-Li
EUT           : Bluetooth Motion Sensor
Power         : DC 3.7V
Test mode     : 8DPSK 2402MHz
M/N           :
              :
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2402.000	27.96	6.75	34.44	89.30	89.57	74.00	-15.57	Peak
2	4804.000	32.86	9.55	34.60	45.23	53.04	74.00	20.96	Peak
3	4804.000	32.86	9.55	34.60	35.76	43.57	54.00	10.43	Average
4	7206.000	35.74	11.82	34.72	45.96	58.80	74.00	15.20	Peak
5	7206.000	35.74	11.82	34.72	36.49	49.33	54.00	4.67	Average

Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Figure 30: Test figure of spurious emissions, mode A.1, Vertical polarity (1GHz – 18GHz), 8DPSK Modulation

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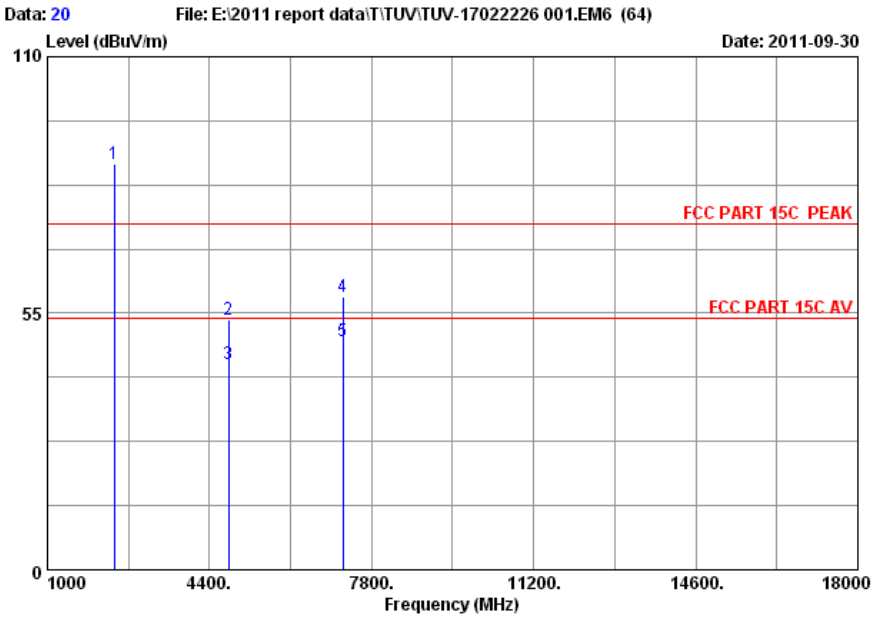


```
Site no.      : 3m Chamber              Data no. :  20
Dis. / Ant.   : 3m   2011 3115 4580      Ant. pol. : VERTICAL
Limit         : FCC PART 15C  PEAK
Env. / Ins.   : 23*C/54%                Engineer  : Leo-Li
EUT           : Bluetooth Motion Sensor
Power         : DC 3.7V
Test mode     : 8DPSK 2402MHz
M/N           :
              :
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2402.000	27.96	6.75	34.44	86.86	87.13	74.00	-13.13	Peak
2	4804.000	32.86	9.55	34.60	45.67	53.48	74.00	20.52	Peak
3	4804.000	32.86	9.55	34.60	36.20	44.01	54.00	9.99	Average
4	7206.000	35.74	11.82	34.72	45.53	58.37	74.00	15.63	Peak
5	7206.000	35.74	11.82	34.72	36.06	48.90	54.00	5.10	Average

Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Figure 31: Test figure of spurious emissions, mode A.1, Horizontal polarity (18GHz – 26GHz), 8DPSK Modulation

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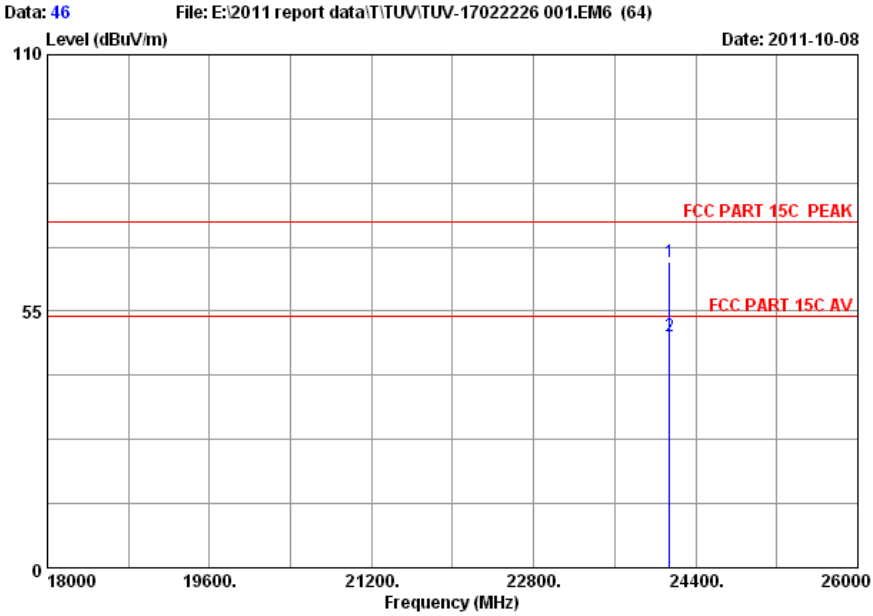

Site no. : 3m Chamber Data no. : 46
Dis. / Ant. : 3m 3116 T Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Leo-Li
EUT : Bluetooth Motion Sensor
Power : DC 3.7V
Test mode : 8DPSK 2402MHz
M/N :
:

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	24144.000	39.63	20.00	34.73	40.57	65.47	74.00	8.53	Peak
2	24144.000	39.63	20.00	34.73	24.68	49.58	54.00	4.42	Average

Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Figure 32: Test figure of spurious emissions, mode A.1, Vertical polarity (18GHz – 26GHz), V Modulation

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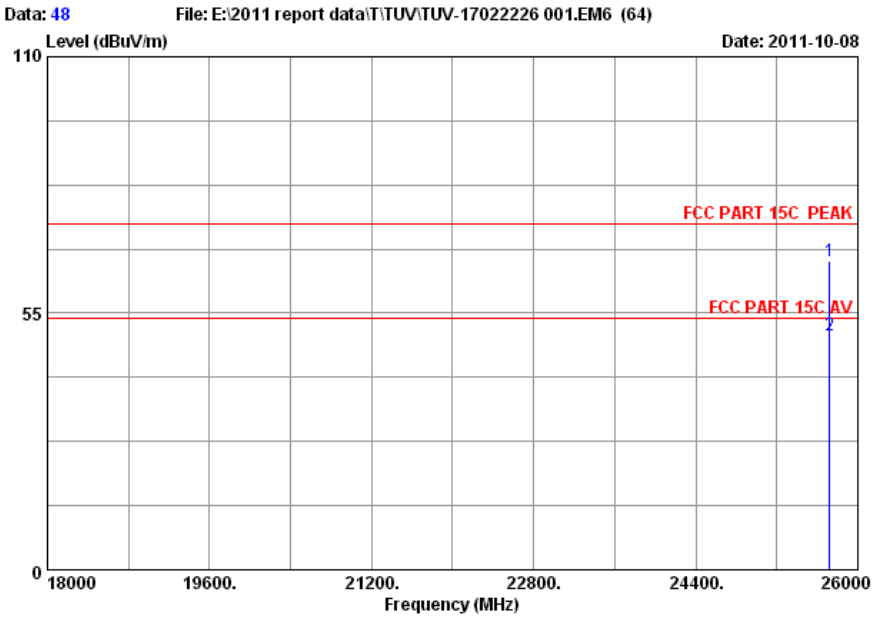


```
Site no.      : 3m Chamber              Data no. :  48
Dis. / Ant.   : 3m   3116 T              Ant. pol. : HORIZONTAL
Limit         : FCC PART 15C  PEAK
Env. / Ins.   : 23*C/54%                 Engineer  : Leo-Li
EUT           : Bluetooth Motion Sensor
Power         : DC 3.7V
Test mode     : 8DPSK 2402MHz
M/N           :
              :
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	25720.000	40.59	20.63	35.04	40.03	66.21	74.00	7.79	Peak
2	25720.000	40.59	20.63	35.04	23.98	50.16	54.00	3.84	Average

Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Figure 33: Test figure of spurious emissions, mode A.2, Horizontal polarity (1.705MHz – 30MHz), 8DPSK Modulation

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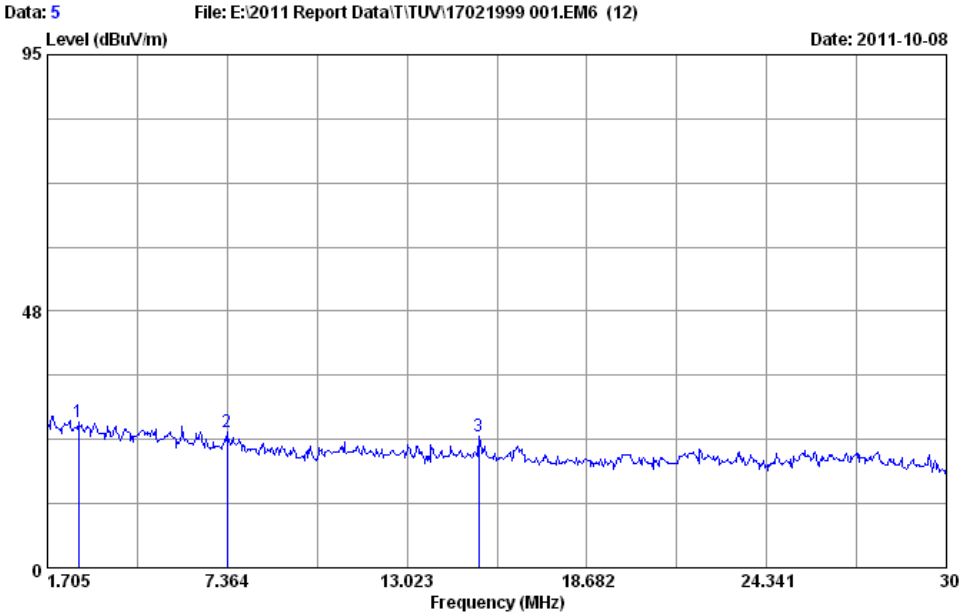

Site no. : 10m Chamber
Dis. / Ant. : 10m 2011 LOOP ANTENNA
Limit : FCC 15.225
Env. / Ins. : 24*C/56%
EUT : Bluetooth Motion Sensor
Power rating : DC 3.7V
Test Mode : 8DPSK 2441MHz Tx

Data no. : 5
Ant. pol. : HORIZONTAL
Engineer : Leo-Li

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2.678	19.60	0.35	6.91	26.86	39.00	12.14	QP
2	7.357	20.82	0.45	3.85	25.12	39.00	13.88	QP
3	15.274	21.82	0.52	2.01	24.35	39.00	14.65	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Figure 34: Test figure of spurious emissions, mode A.2, Vertical polarity (1.705MHz – 30MHz), 8DPSK Modulation

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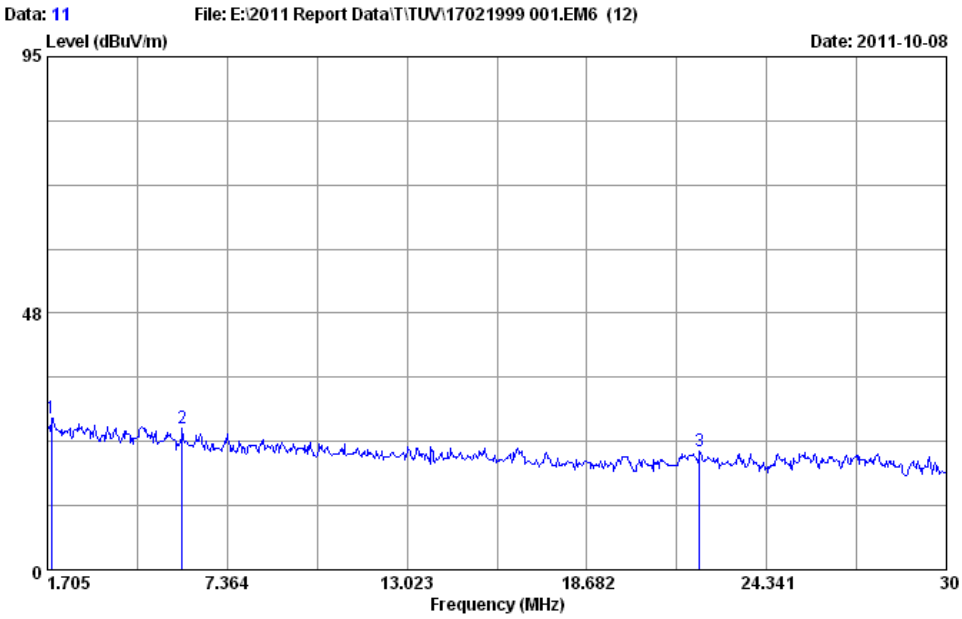

Site no. : 10m Chamber
Dis. / Ant. : 10m 2011 LOOP ANTENNA
Limit : FCC 15.225
Env. / Ins. : 24*C/56%
EUT : Bluetooth Motion Sensor
Power rating : DC 3.7V
Test Mode : 8DPSK 2441MHz Tx

Data no. : 11
Ant. pol. : VERTICAL
Engineer : Leo-Li

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1.838	19.75	0.33	7.96	28.04	39.00	10.96	QP
2	5.947	20.99	0.41	4.69	26.09	39.00	12.91	QP
3	22.232	22.01	0.53	-0.48	22.06	39.00	16.94	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Figure 35: Test figure of spurious emissions, mode A.2, Horizontal polarity (30MHz – 1GHz), 8DPSK Modulation

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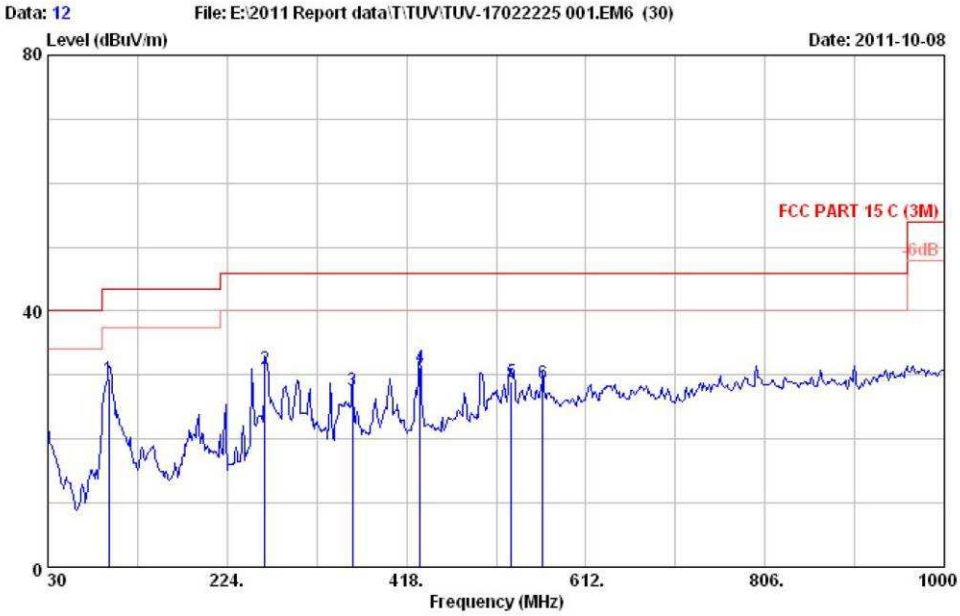

Site no. : 3m Chamber Data no. : 12
Dis. / Ant. : 3m 2010 CBL6111C 2598 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 C (3M)
Env. / Ins. : 24*C/56% Engineer : Leo _Li
EUT : Bluetooth Motion Sensor
Power rating : DC 5V From PC Input AC 120V/60Hz
Test Mode : 8DPSK Tx 2441MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	95.960	9.84	1.14	18.53	29.51	43.50	13.99	QP
2	264.740	13.80	2.59	14.64	31.03	46.00	14.97	QP
3	359.800	15.60	3.20	8.82	27.62	46.00	18.38	QP
4	432.550	17.42	3.55	10.31	31.28	46.00	14.72	QP
5	531.490	18.28	4.16	6.61	29.05	46.00	16.95	QP
6	565.440	19.61	4.32	4.71	28.64	46.00	17.36	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Figure 36: Test figure of spurious emissions, mode A.2, Vertical polarity (30MHz – 1GMHz), 8DPSK Modulation

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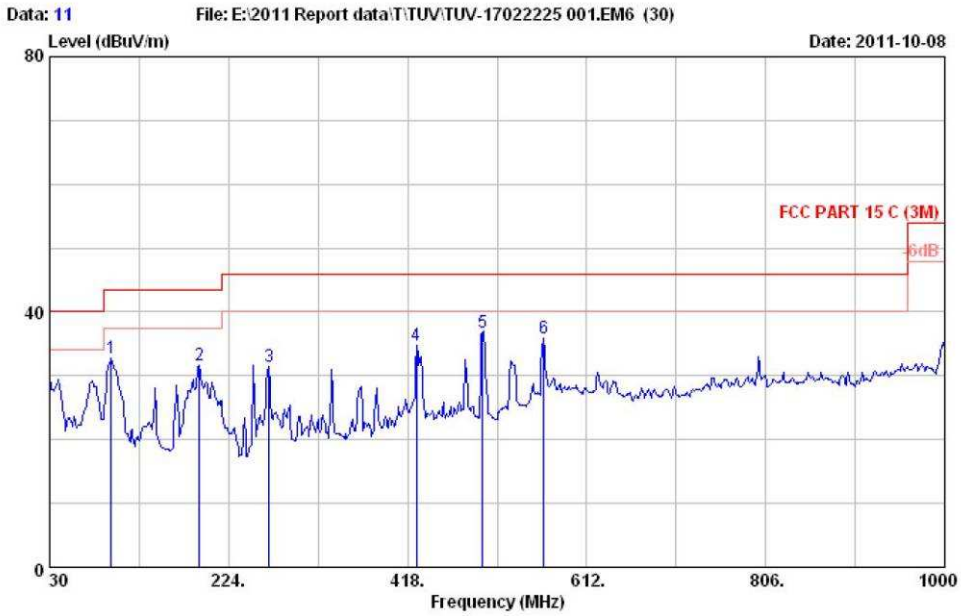


```
Site no.      : 3m Chamber                    Data no.  : 11
Dis. / Ant.   : 3m   2010 CBL6111C 2598       Ant. pol. : VERTICAL
Limit         : FCC PART 15 C (3M)
Env. / Ins.   : 24*C/56%                      Engineer  : Leo _Li
EUT           : Bluetooth Motion Sensor
Power rating  : DC 5V From PC Input AC 120V/60Hz
Test Mode     : 8DPSK Tx 2441MHz
```

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	96.930	9.98	1.15	21.71	32.84	43.50	10.66	QP
2	191.990	9.52	1.78	20.23	31.53	43.50	11.97	QP
3	267.650	13.50	2.63	15.36	31.49	46.00	14.51	QP
4	427.700	17.40	3.52	13.77	34.69	46.00	11.31	QP
5	499.480	18.29	3.99	14.56	36.84	46.00	9.16	QP
6	565.440	19.61	4.32	12.06	35.99	46.00	10.01	QP

```
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
         2. The emission levels that are 20dB below the official
            limit are not reported.
```

Figure 37: Test figure of spurious emissions, mode A.2, Horizontal polarity (1GHz – 18GHz), 8DPSK Modulation

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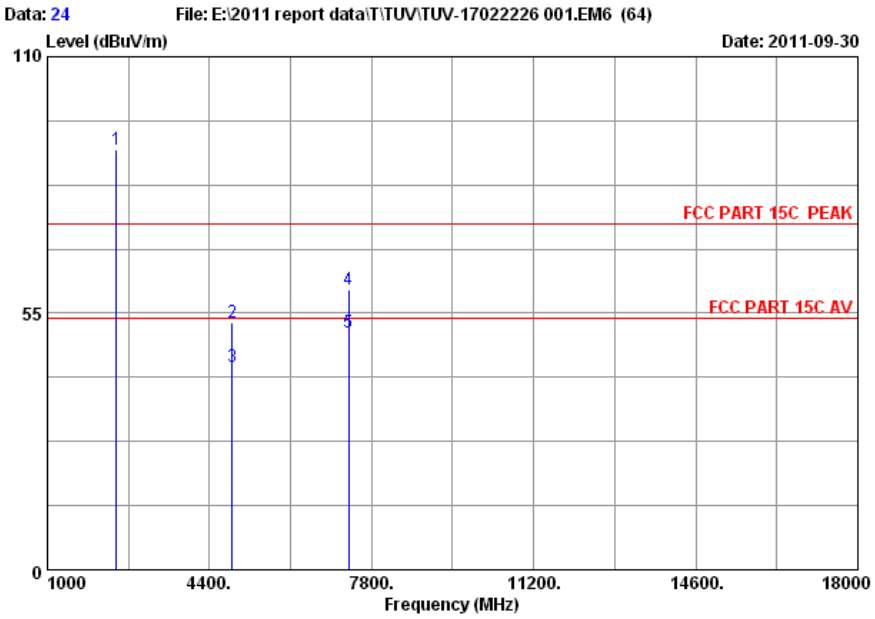


```
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Dis. / Ant.   : 3m   2011 3115 4580     Ant. pol. : HORIZONTAL
Limit         : FCC PART 15C  PEAK
Env. / Ins.   : 23*C/54%                Engineer  : Leo-Li
EUT           : Bluetooth Motion Sensor
Power         : DC 3.7V
Test mode     : 8DPSK 2441MHz
M/N           :
              :
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2441.000	28.03	6.81	34.44	89.70	90.10	74.00	-16.10	Peak
2	4882.000	32.98	9.62	34.60	44.98	52.98	74.00	21.02	Peak
3	4882.000	32.98	9.62	34.60	35.42	43.42	54.00	10.58	Average
4	7323.000	36.05	11.89	34.73	47.00	60.21	74.00	13.79	Peak
5	7323.000	36.05	11.89	34.73	37.53	50.74	54.00	3.26	Average

Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Figure 38: Test figure of spurious emissions, mode A.2, Vertical polarity (1GHz – 18GHz), 8DPSK Modulation

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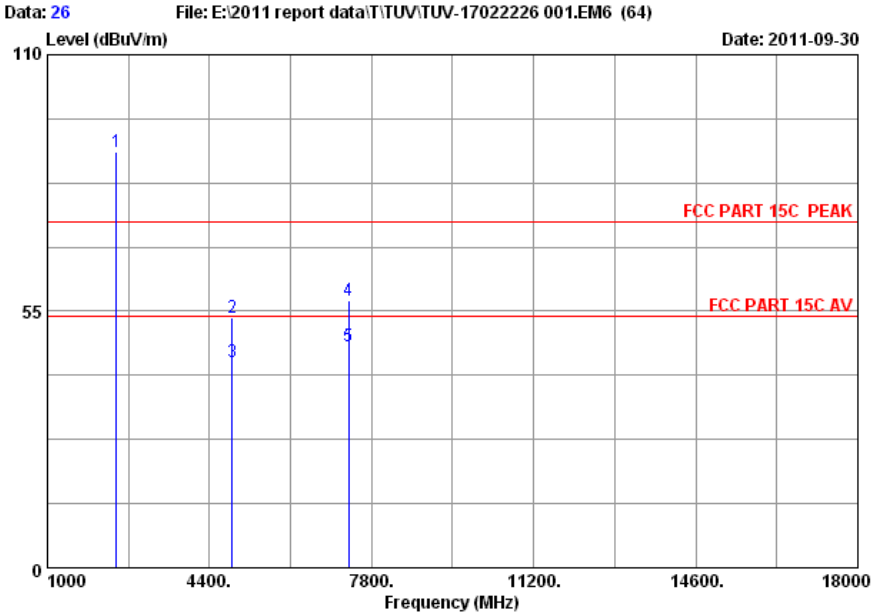

Site no. : 3m Chamber Data no. : 26
Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Leo-Li
EUT : Bluetooth Motion Sensor
Power : DC 3.7V
Test mode : 8DPSK 2441MHz
M/N :
:

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2441.000	28.03	6.81	34.44	88.73	89.13	74.00	-15.13	Peak
2	4882.000	32.98	9.62	34.60	45.56	53.56	74.00	20.44	Peak
3	4882.000	32.98	9.62	34.60	36.09	44.09	54.00	9.91	Average
4	7323.000	36.05	11.89	34.73	44.00	57.21	74.00	16.79	Peak
5	7323.000	36.05	11.89	34.73	34.34	47.55	54.00	6.45	Average

Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Figure 39: Test figure of spurious emissions, mode A.2, Horizontal polarity (18GHz – 26GHz), 8DPSK Modulation

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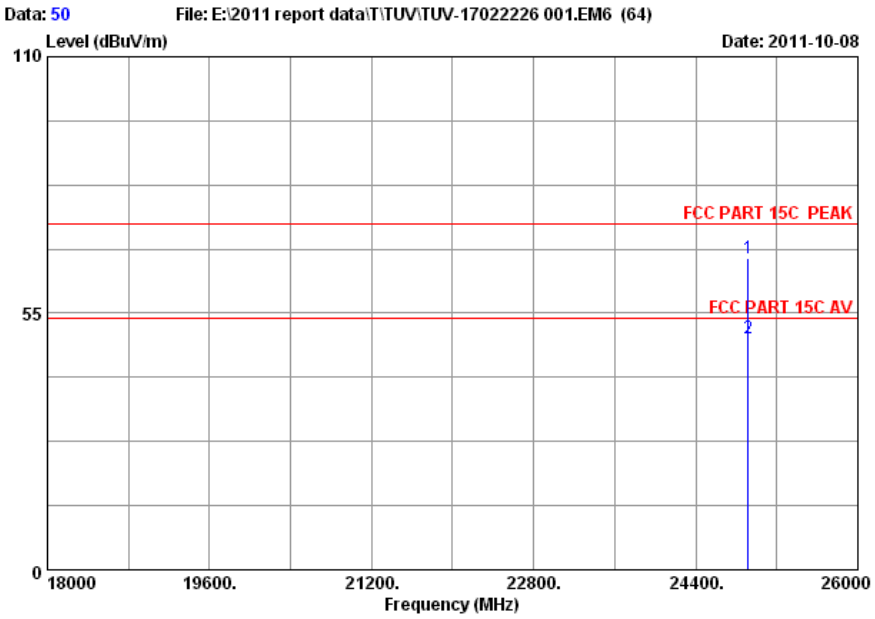


```
Site no.      : 3m Chamber              Data no. :  50
Dis. / Ant.   : 3m   3116 T              Ant. pol. : HORIZONTAL
Limit         : FCC PART 15C  PEAK
Env. / Ins.   : 23*C/54%                 Engineer  : Leo-Li
EUT           : Bluetooth Motion Sensor
Power         : DC 3.7V
Test mode     : 8DPSK 2441MHz
M/N           :
              :
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	24920.000	40.05	20.32	34.88	41.34	66.83	74.00	7.17	Peak
2	24920.000	40.05	20.32	34.88	24.12	49.61	54.00	4.39	Average

Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Figure 40: Test figure of spurious emissions, mode A.2, Vertical polarity (18GHz – 26GHz), 8DPSK Modulation

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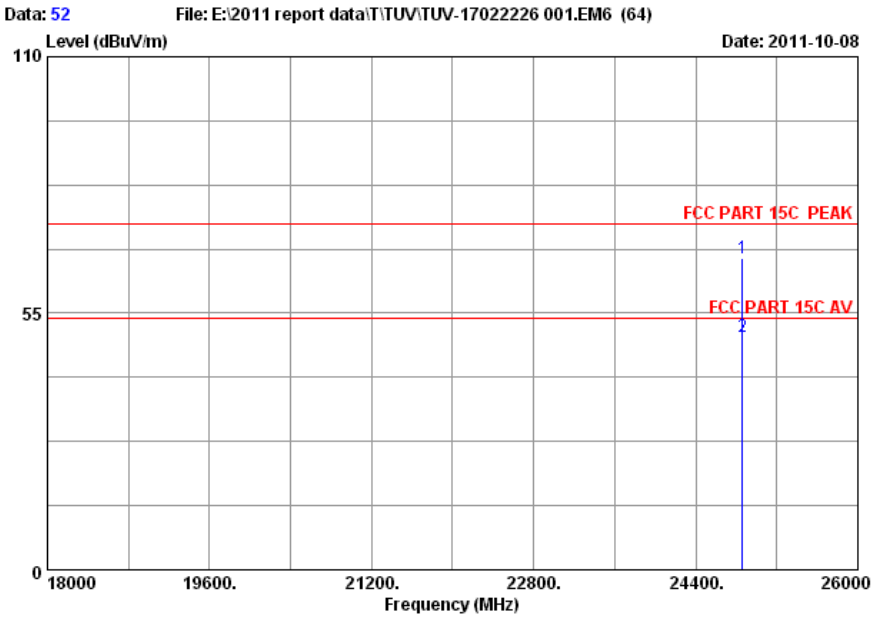


```
Site no.      : 3m Chamber              Data no. :  52
Dis. / Ant.   : 3m   3116 T              Ant. pol. : VERTICAL
Limit         : FCC PART 15C  PEAK
Env. / Ins.   : 23*C/54%                 Engineer  : Leo-Li
EUT           : Bluetooth Motion Sensor
Power         : DC 3.7V
Test mode     : 8DPSK 2441MHz
M/N           :
              :
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	24864.000	40.00	20.29	34.88	41.53	66.94	74.00	7.06	Peak
2	24864.000	40.00	20.29	34.88	24.57	49.98	54.00	4.02	Average

Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Figure 41: Test figure of spurious emissions, mode A.3, Horizontal polarity (1.705MHz – 30MHz), 8DPSK Modulation

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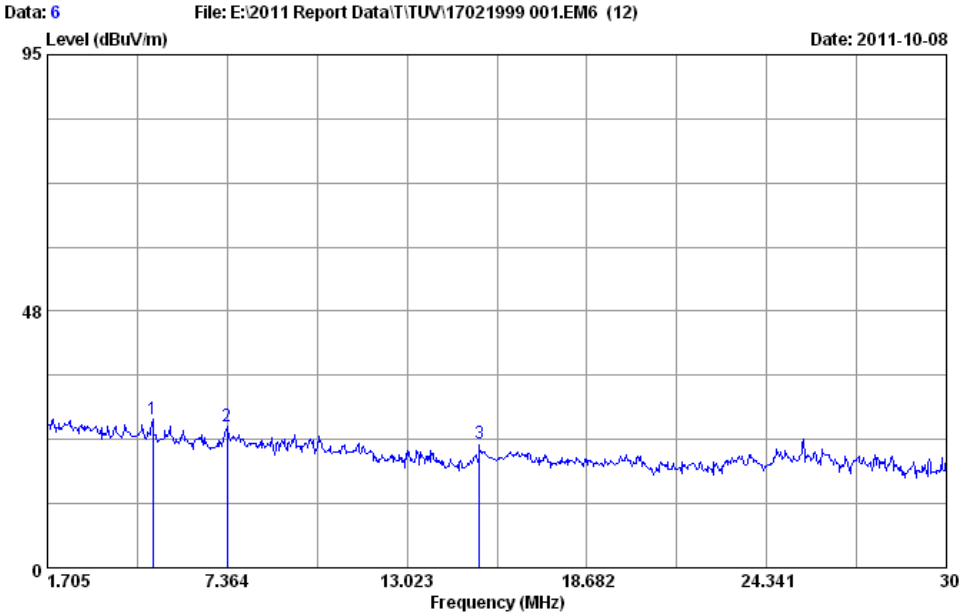

Site no. : 10m Chamber
Dis. / Ant. : 10m 2011 LOOP ANTENNA
Limit : FCC 15.225
Env. / Ins. : 24*C/56%
EUT : Bluetooth Motion Sensor
Power rating : DC 3.7V
Test Mode : 8DPSK 2480MHz Tx

Data no. : 6
Ant. pol. : HORIZONTAL
Engineer : Leo-Li

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5.017	21.10	0.39	6.01	27.50	39.00	11.50	QP
2	7.357	20.82	0.45	4.85	26.12	39.00	12.88	QP
3	15.304	21.82	0.52	0.71	23.05	39.00	15.95	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Figure 42: Test figure of spurious emissions, mode A.3, Vertical polarity (1.705MHz – 30MHz), 8DPSK Modulation

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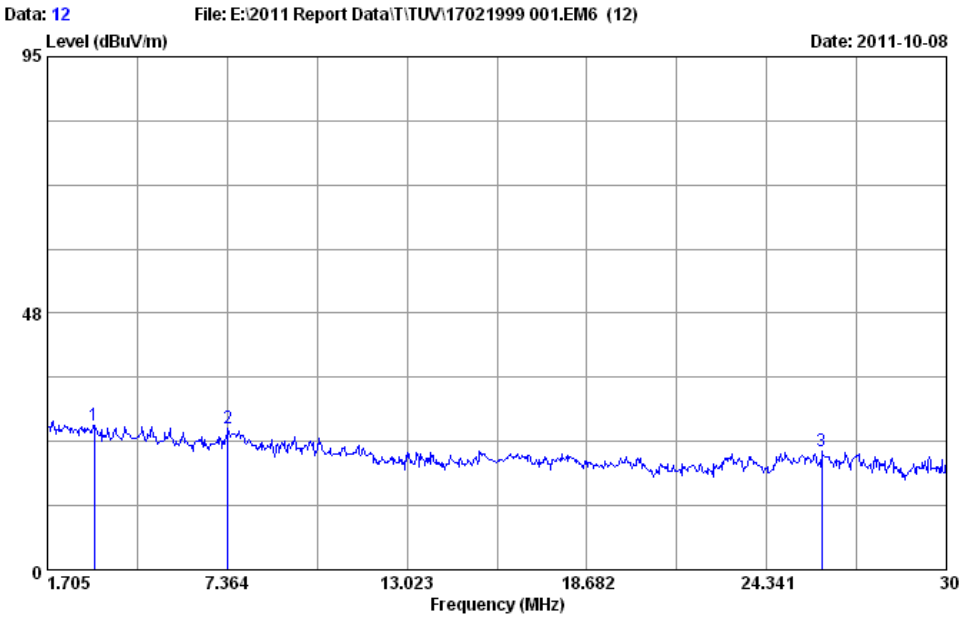

Site no. : 10m Chamber
Dis. / Ant. : 10m 2011 LOOP ANTENNA
Limit : FCC 15.225
Env. / Ins. : 24*C/56%
EUT : Bluetooth Motion Sensor
Power rating : DC 3.7V
Test Mode : 8DPSK 2480MHz Tx

Data no. : 12
Ant. pol. : VERTICAL
Engineer : Leo-Li

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	3.188	19.80	0.36	6.66	26.82	39.00	12.18	QP
2	7.387	20.81	0.45	5.04	26.30	39.00	12.70	QP
3	26.071	22.18	0.54	-0.84	21.88	39.00	17.12	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Figure 43: Test figure of spurious emissions, mode A.3, Horizontal polarity (30MHz – 1GHz), 8DPSK Modulation

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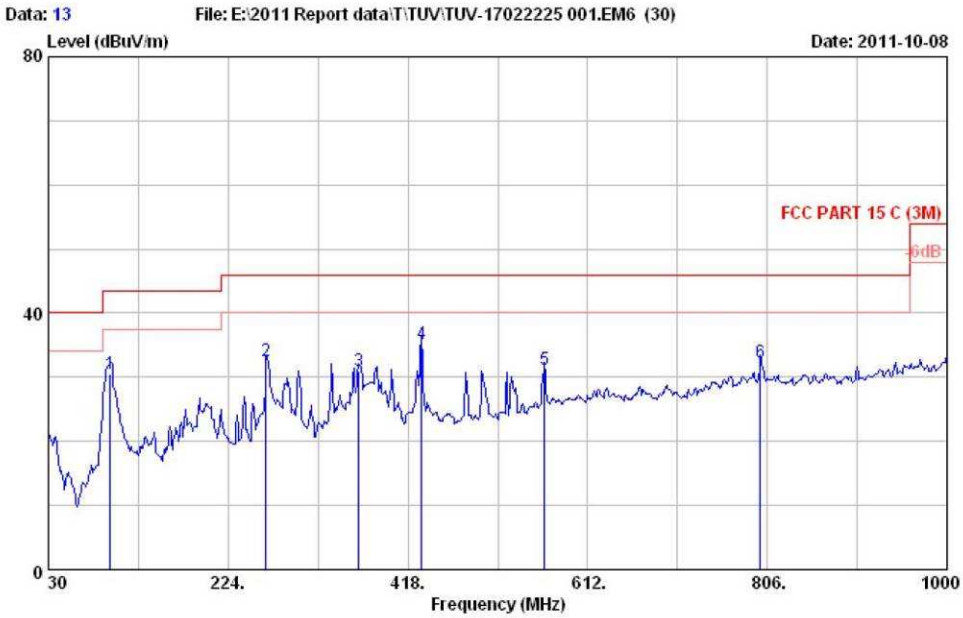

Site no. : 3m Chamber Data no. : 13
Dis. / Ant. : 3m 2010 CBL6111C 2598 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 C (3M)
Env. / Ins. : 24*C/56% Engineer : Leo _Li
EUT : Bluetooth Motion Sensor
Power rating : DC 5V From PC Input AC 120V/60Hz
Test Mode : 8DPSK Tx 2480MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	96.930	9.98	1.15	19.46	30.59	43.50	12.91	QP
2	264.740	13.80	2.59	16.08	32.47	46.00	13.53	QP
3	364.650	15.55	3.21	12.32	31.08	46.00	14.92	QP
4	432.550	17.42	3.55	14.24	35.21	46.00	10.79	QP
5	565.440	19.61	4.32	7.33	31.26	46.00	14.74	QP
6	798.240	22.02	5.49	4.84	32.35	46.00	13.65	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Figure 44: Test figure of spurious emissions, mode A.3, Vertical polarity (30MHz – 1GHz), 8DPSK Modulation

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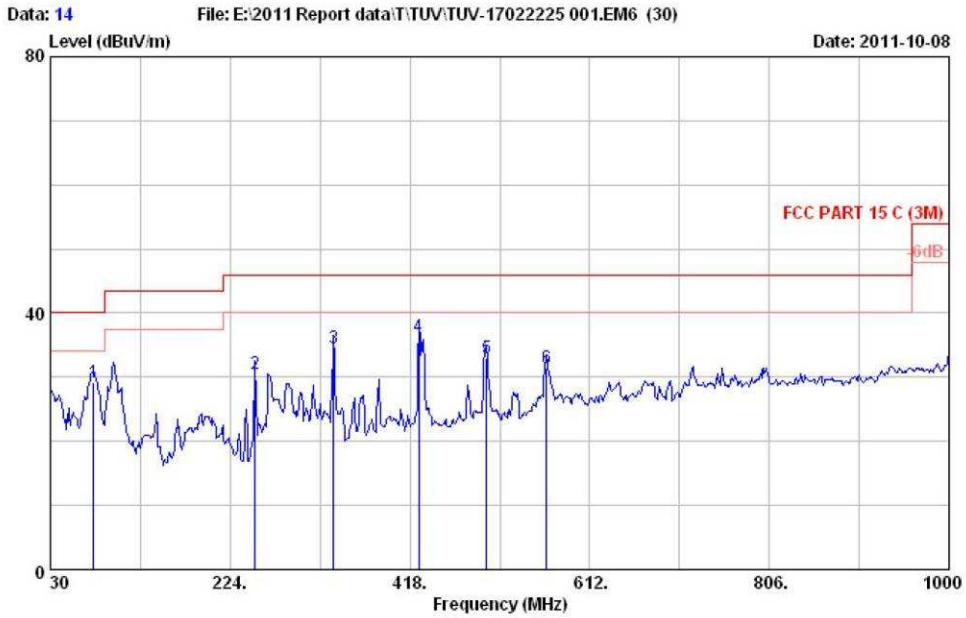

Site no. : 3m Chamber Data no. : 14
Dis. / Ant. : 3m 2010 CBL6111C 2598 Ant. pol. : VERTICAL
Limit : FCC PART 15 C (3M)
Env. / Ins. : 24*C/56% Engineer : Leo _Li
EUT : Bluetooth Motion Sensor
Power rating : DC 5V From PC Input AC 120V/60Hz
Test Mode : 8DPSK Tx 2480MHz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	76.560	7.47	1.01	20.66	29.14	40.00	10.86	QP
2	251.160	12.90	2.43	15.25	30.58	46.00	15.42	QP
3	335.550	14.62	3.12	16.76	34.50	46.00	11.50	QP
4	427.700	17.40	3.52	15.33	36.25	46.00	9.75	QP
5	500.450	18.30	4.00	10.71	33.01	46.00	12.99	QP
6	565.440	19.61	4.32	7.54	31.47	46.00	14.53	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Figure 45: Test figure of spurious emissions, mode A.3, Horizontal polarity (1GHz –18GHz), 8DPSK Modulation

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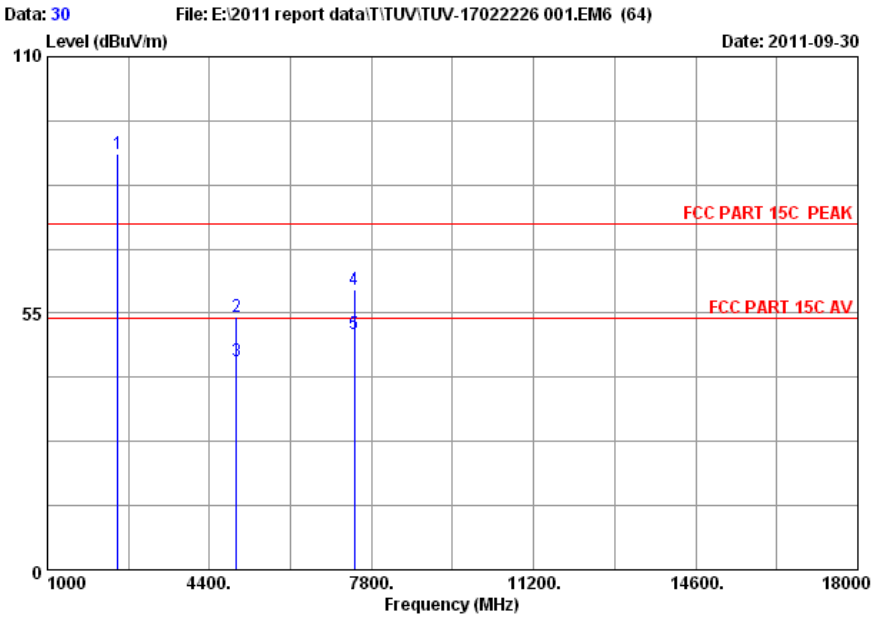

Site no. : 3m Chamber Data no. : 30
Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Leo-Li
EUT : Bluetooth Motion Sensor
Power : DC 3.7V
Test mode : 8DPSK 2480MHz
M/N :
:

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.000	28.08	6.87	34.45	88.60	89.10	74.00	-15.10	Peak
2	4960.000	33.14	9.69	34.60	45.87	54.10	74.00	19.90	Peak
3	4960.000	33.14	9.69	34.60	36.40	44.63	54.00	9.37	Average
4	7440.000	36.37	11.95	34.74	46.52	60.10	74.00	13.90	Peak
5	7440.000	36.37	11.95	34.74	37.05	50.63	54.00	3.37	Average

Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Figure 46: Test figure of spurious emissions, mode A.3, Vertical polarity (1GHz – 18GHz), 8DPSK Modulation

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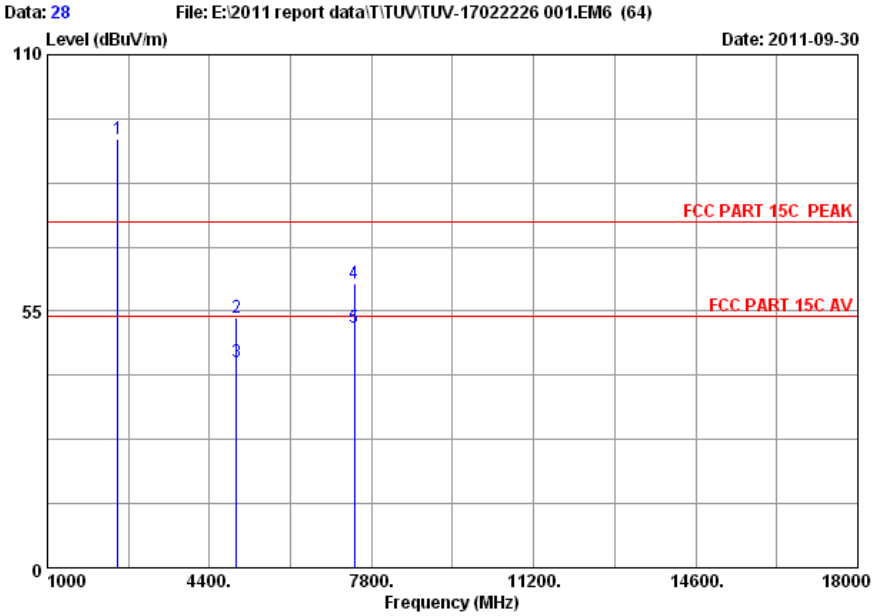

Site no. : 3m Chamber Data no. : 28
Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Leo-Li
EUT : Bluetooth Motion Sensor
Power : DC 3.7V
Test mode : 8DPSK 2480MHz
M/N :
:

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.000	28.08	6.87	34.45	91.30	91.80	74.00	-17.80	Peak
2	4960.000	33.14	9.69	34.60	45.36	53.59	74.00	20.41	Peak
3	4960.000	33.14	9.69	34.60	35.89	44.12	54.00	9.88	Average
4	7440.000	36.37	11.95	34.74	47.45	61.03	74.00	12.97	Peak
5	7440.000	36.37	11.95	34.74	37.98	51.56	54.00	2.44	Average

Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Figure 47: Test figure of spurious emissions, mode A.3, Horizontal polarity (18GHz – 26GHz), 8DPSK Modulation

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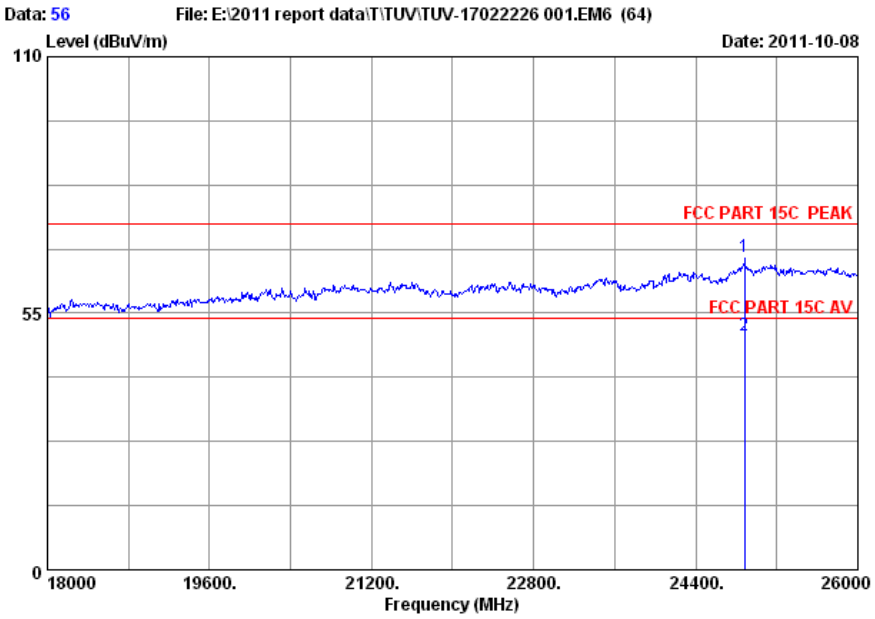


```
Site no.      : 3m Chamber              Data no. :  56
Dis. / Ant.   : 3m   3116 T              Ant. pol. : HORIZONTAL
Limit         : FCC PART 15C  PEAK
Env. / Ins.   : 23*C/54%                 Engineer  : Leo-Li
EUT           : Bluetooth Motion Sensor
Power         : DC 3.7V
Test mode     : 8DPSK 2480MHz
M/N           :
              :
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	24880.000	40.01	20.30	34.88	41.66	67.09	74.00	6.91	Peak
2	24880.000	40.01	20.30	34.88	24.79	50.22	54.00	3.78	Average

Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Figure 48: Test figure of spurious emissions, mode A.3, Vertical polarity (18GHz – 26GHz), 8DPSK Modulation

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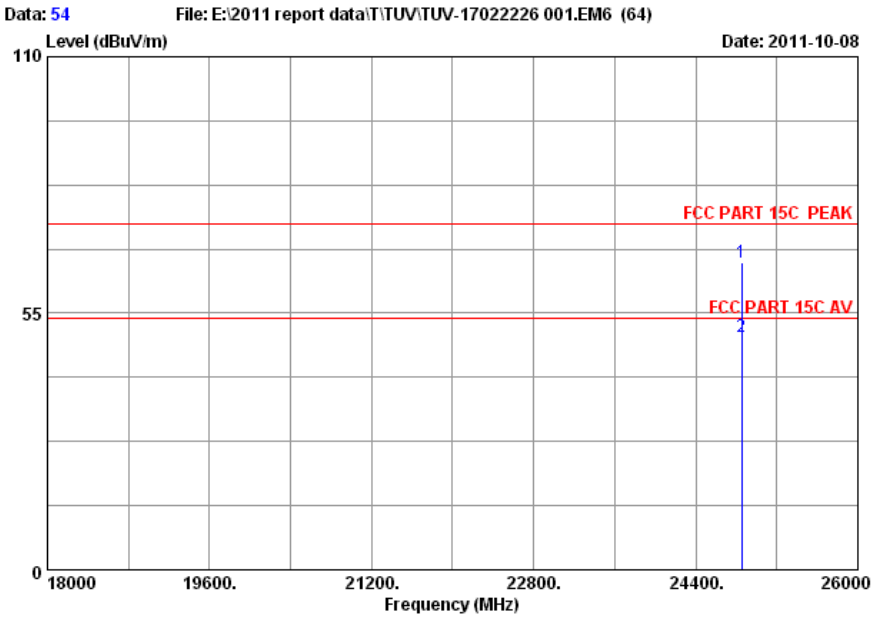


```
Site no.      : 3m Chamber              Data no. :  54
Dis. / Ant.   : 3m   3116 T              Ant. pol. : VERTICAL
Limit         : FCC PART 15C  PEAK
Env. / Ins.   : 23*C/54%                 Engineer  : Leo-Li
EUT           : Bluetooth Motion Sensor
Power         : DC 3.7V
Test mode     : 8DPSK 2480MHz
M/N           :
              :
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	24856.000	40.00	20.29	34.87	40.47	65.89	74.00	8.11	Peak
2	24856.000	40.00	20.29	34.87	24.62	50.04	54.00	3.96	Average

Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Figure 49: Test figure of Radiated emissions in restricted bands, Mode A.1, Horizontal, GFSK Modulation

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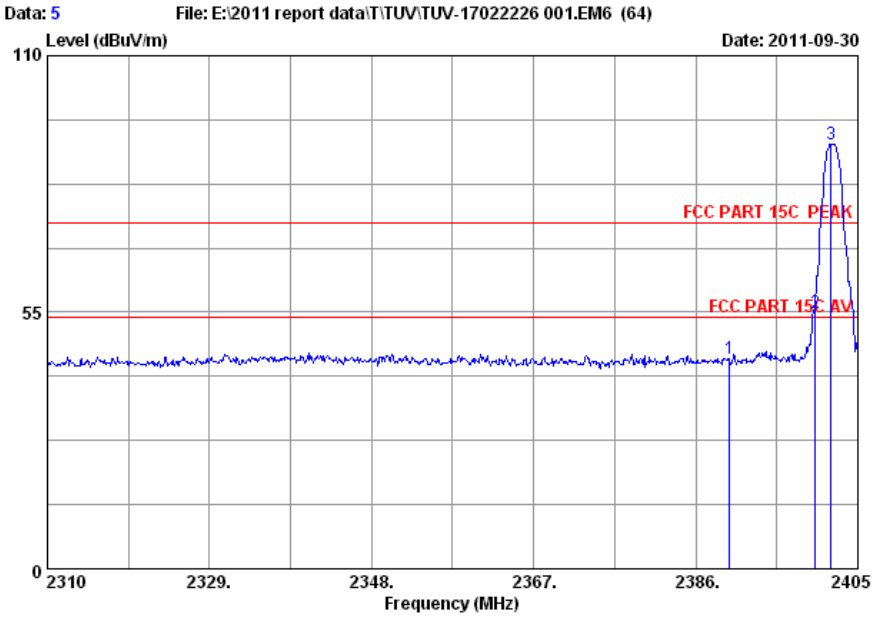

Site no. : 3m Chamber Data no. : 5
Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Leo-Li
EUT : Bluetooth Motion Sensor
Power : DC 3.7V
Test mode : GFSK 2402MHz
M/N :
:

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	27.96	6.72	34.44	44.79	45.03	74.00	28.97	Peak
2	2400.000	27.96	6.75	34.44	54.46	54.73	74.00	19.27	Peak
3	2401.865	27.96	6.75	34.44	90.87	91.14	74.00	-17.14	Peak

Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Figure 50: Test figure of Radiated emissions in restricted bands, Mode A.1, Vertical, GFSK Modulation

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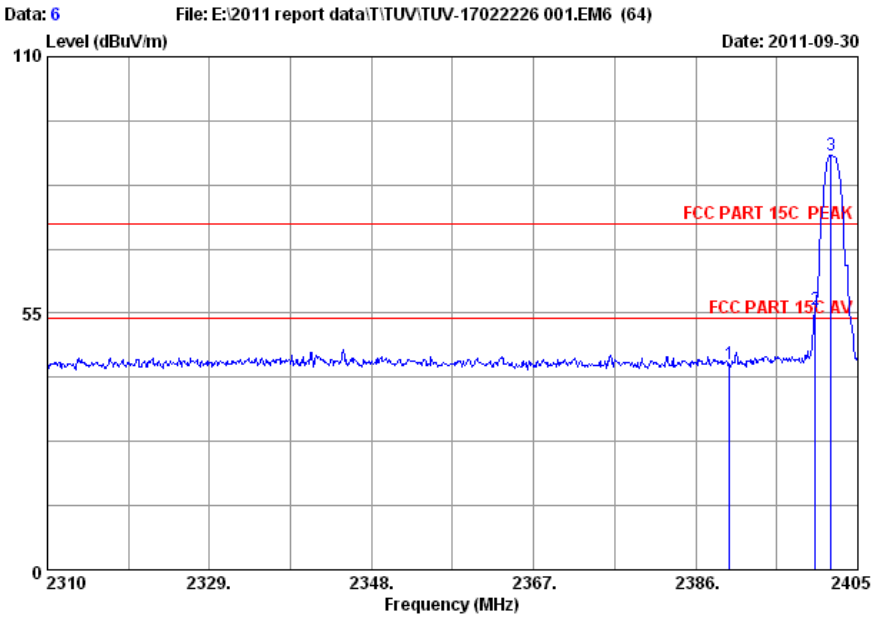


```
Site no.      : 3m Chamber              Data no. :  6
Dis. / Ant.   : 3m   2011 3115 4580      Ant. pol. : VERTICAL
Limit         : FCC PART 15C  PEAK
Env. / Ins.   : 23*C/54%                Engineer  : Leo-Li
EUT           : Bluetooth Motion Sensor
Power         : DC 3.7V
Test mode     : GFSK 2402MHz
M/N           :
              :
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	27.96	6.72	34.44	44.00	44.24	74.00	29.76	Peak
2	2400.000	27.96	6.75	34.44	55.60	55.87	74.00	18.13	Peak
3	2401.865	27.96	6.75	34.44	88.62	88.89	74.00	-14.89	Peak

Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Figure 51: Test figure of Radiated emissions in restricted bands, Mode A.3, Horizontal, GFSK Modulation

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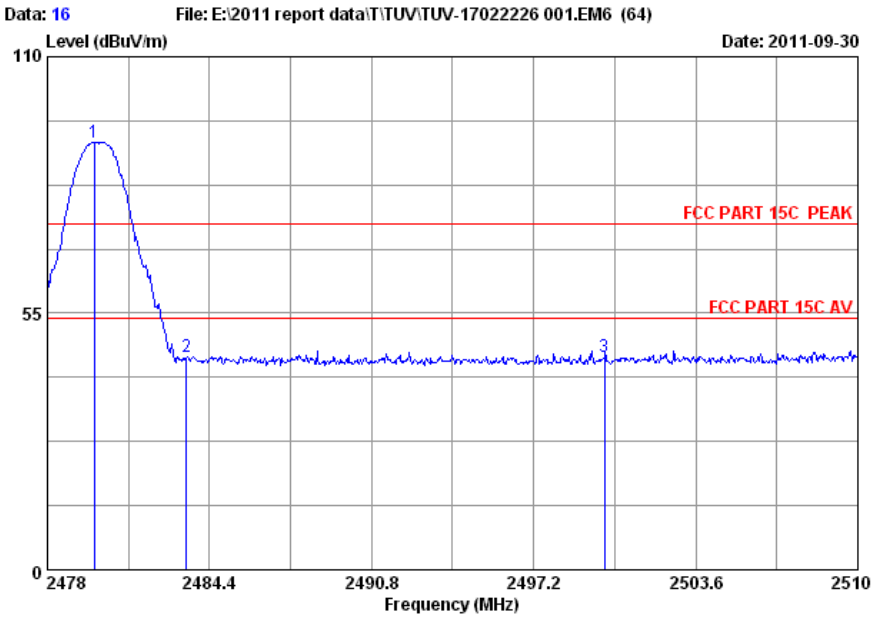


```
Site no.      : 3m Chamber              Data no. :  16
Dis. / Ant.   : 3m   2011 3115 4580     Ant. pol. : HORIZONTAL
Limit         : FCC PART 15C  PEAK
Env. / Ins.   : 23*C/54%                Engineer  : Leo-Li
EUT           : Bluetooth Motion Sensor
Power         : DC 3.7V
Test mode     : GFSK 2480MHz
M/N           :
              :
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2479.856	28.08	6.87	34.45	91.26	91.76	74.00	-17.76	Peak
2	2483.500	28.08	6.90	34.45	45.27	45.80	74.00	28.20	Peak
3	2500.000	28.10	6.90	34.45	45.07	45.62	74.00	28.38	Peak

Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Figure 52: Test figure of Radiated emissions in restricted bands, Mode A.3, Vertical, GFSK Modulation

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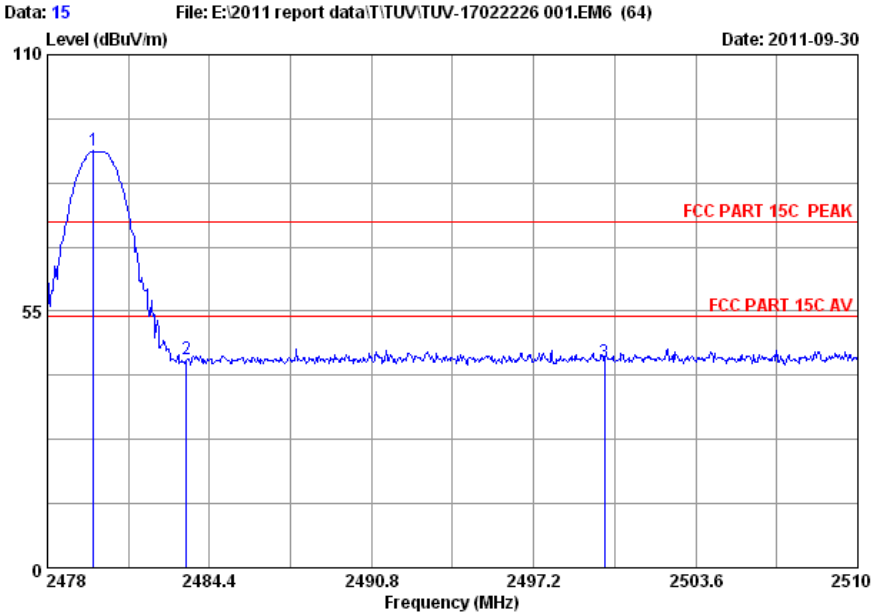


```
Site no.      : 3m Chamber              Data no. :  15
Dis. / Ant.   : 3m   2011 3115 4580      Ant. pol. : VERTICAL
Limit         : FCC PART 15C  PEAK
Env. / Ins.   : 23*C/54%                Engineer  : Leo-Li
EUT           : Bluetooth Motion Sensor
Power         : DC 3.7V
Test mode     : GFSK 2480MHz
M/N           :
              :
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2479.824	28.08	6.87	34.45	88.83	89.33	74.00	-15.33	Peak
2	2483.500	28.08	6.90	34.45	44.21	44.74	74.00	29.26	Peak
3	2500.000	28.10	6.90	34.45	43.60	44.15	74.00	29.85	Peak

Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Figure 53: Test figure of Radiated emissions in restricted bands, Mode A.1, Horizontal, 8DPSK Modulation

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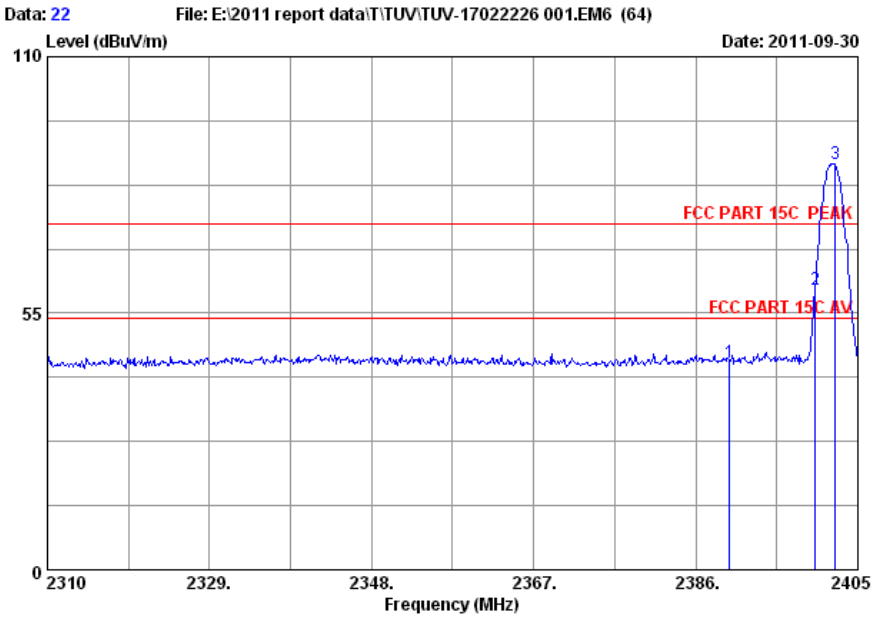


```
Site no.      : 3m Chamber              Data no. :  22
Dis. / Ant.   : 3m   2011 3115 4580      Ant. pol. : HORIZONTAL
Limit         : FCC PART 15C  PEAK
Env. / Ins.   : 23*C/54%                Engineer  : Leo-Li
EUT           : Bluetooth Motion Sensor
Power         : DC 3.7V
Test mode     : 8DPSK 2402MHz
M/N           :
              :
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	27.96	6.72	34.44	44.27	44.51	74.00	29.49	Peak
2	2400.000	27.96	6.75	34.44	59.78	60.05	74.00	13.95	Peak
3	2402.340	27.96	6.75	34.44	86.78	87.05	74.00	-13.05	Peak

Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Figure 54: Test figure of Radiated emissions in restricted bands, Mode A.1, Vertical, 8DPSK Modulation

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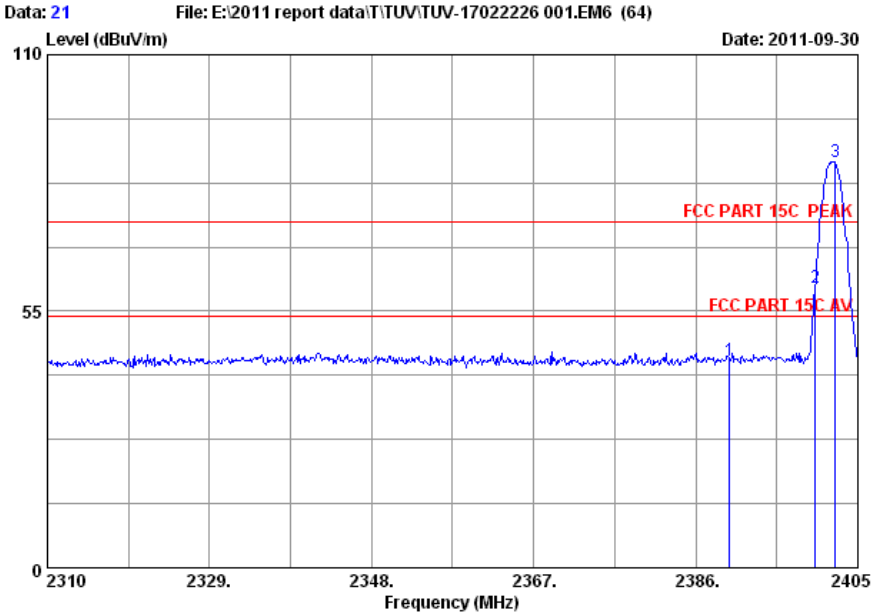


```
Site no.      : 3m Chamber              Data no. :  21
Dis. / Ant.   : 3m   2011 3115 4580      Ant. pol. : VERTICAL
Limit         : FCC PART 15C  PEAK
Env. / Ins.   : 23*C/54%                Engineer  : Leo-Li
EUT           : Bluetooth Motion Sensor
Power         : DC 3.7V
Test mode     : 8DPSK 2402MHz
M/N           :
              :
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	27.96	6.72	34.44	44.27	44.51	74.00	29.49	Peak
2	2400.000	27.96	6.75	34.44	59.78	60.05	74.00	13.95	Peak
3	2402.340	27.96	6.75	34.44	86.78	87.05	74.00	-13.05	Peak

Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Figure 55: Test figure of Radiated emissions in restricted bands, Mode A.3, Horizontal, 8DPSK Modulation

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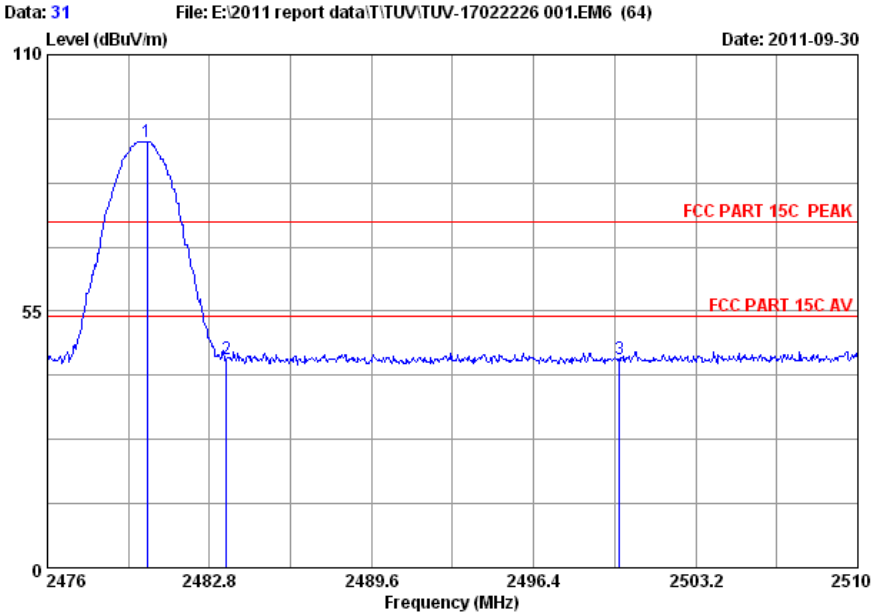

Site no. : 3m Chamber Data no. : 31
Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Leo-Li
EUT : Bluetooth Motion Sensor
Power : DC 3.7V
Test mode : 8DPSK 2480MHz
M/N :
:

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.182	28.08	6.87	34.45	90.88	91.38	74.00	-17.38	Peak
2	2483.500	28.08	6.90	34.45	44.30	44.83	74.00	29.17	Peak
3	2500.000	28.10	6.90	34.45	44.14	44.69	74.00	29.31	Peak

Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Figure 56: Test figure of Radiated emissions in restricted bands, Mode A.3, Vertical, 8DPSK Modulation

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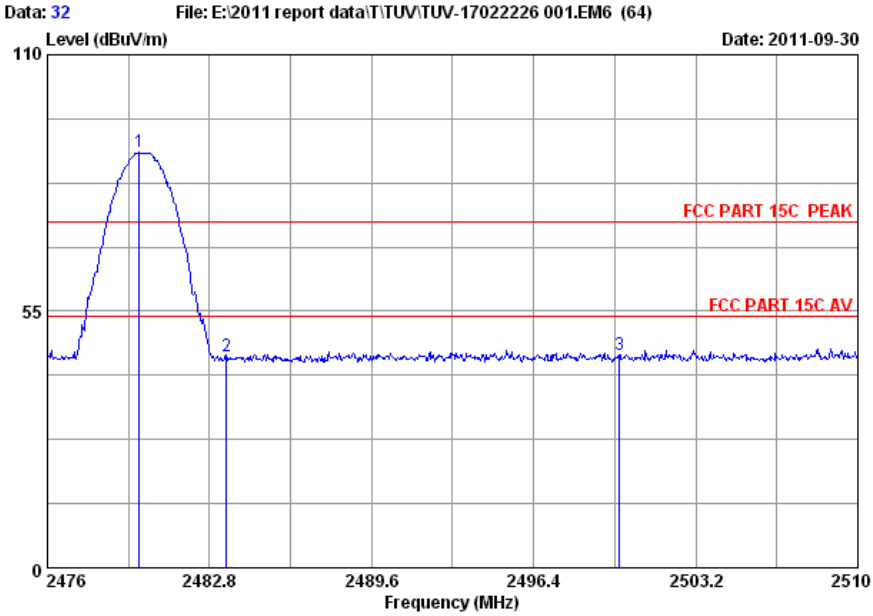


```
Site no.      : 3m Chamber              Data no. :  32
Dis. / Ant.   : 3m   2011 3115 4580      Ant. pol. : VERTICAL
Limit         : FCC PART 15C  PEAK
Env. / Ins.   : 23*C/54%                Engineer  : Leo-Li
EUT           : Bluetooth Motion Sensor
Power         : DC 3.7V
Test mode     : 8DPSK 2480MHz
M/N           :
              :
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2479.842	28.08	6.87	34.45	88.52	89.02	74.00	-15.02	Peak
2	2483.500	28.08	6.90	34.45	44.83	45.36	74.00	28.64	Peak
3	2500.000	28.10	6.90	34.45	45.05	45.60	74.00	28.40	Peak

Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Figure 57: Test figure of conducted emissions, line live

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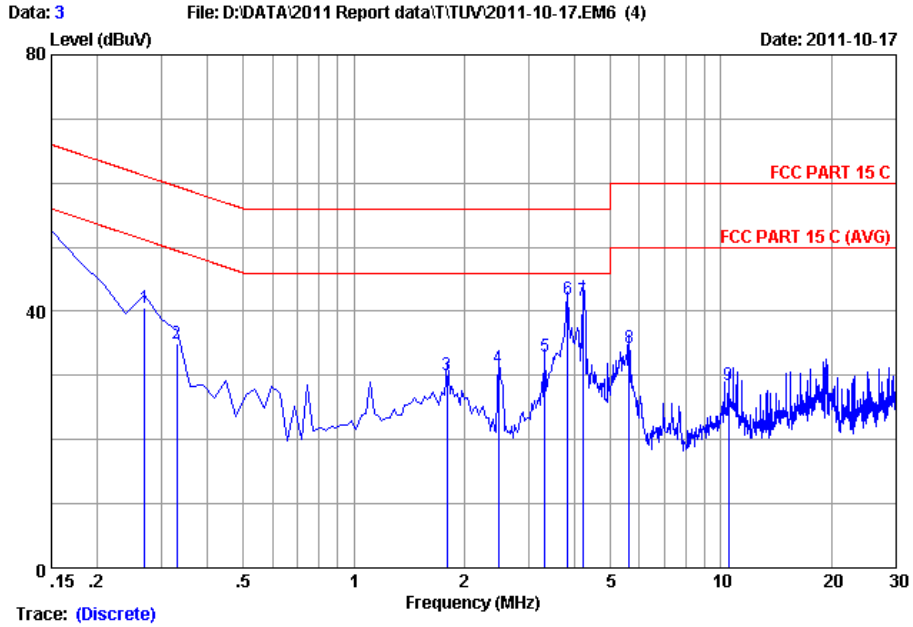

Site no :1#conduction
Dis./Ant. :** 2011 ESH2-Z5 NEUTRAL
Limit :FCC PART 15 C
Env./Ins. :25.5*C/55%
EUT :Bluetooth Motion Sensor
Power Rating :DC 5V From PC input AC 120V/60Hz
Test Mode :Tx

Data No :3
Engineer :Paul Tian

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.26940	0.21	9.98	30.26	40.45	61.14	20.69	QP
2	0.32910	0.22	9.98	24.83	35.03	59.47	24.44	QP
3	1.792	0.26	9.96	19.90	30.12	56.00	25.88	QP
4	2.478	0.28	9.95	20.95	31.18	56.00	24.82	QP
5	3.314	0.30	9.95	22.75	33.00	56.00	23.00	QP
6	3.822	0.31	9.94	31.72	41.97	56.00	14.03	QP
7	4.210	0.31	9.94	31.45	41.70	56.00	14.30	QP
8	5.613	0.35	9.93	24.14	34.42	60.00	25.58	QP
9	10.478	0.46	9.90	18.23	28.59	60.00	31.41	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)
+Reading.
2.If the average limit is met when useing a quasi-peak detector.
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.

Figure 58: Test figure of conducted emissions, line neutral

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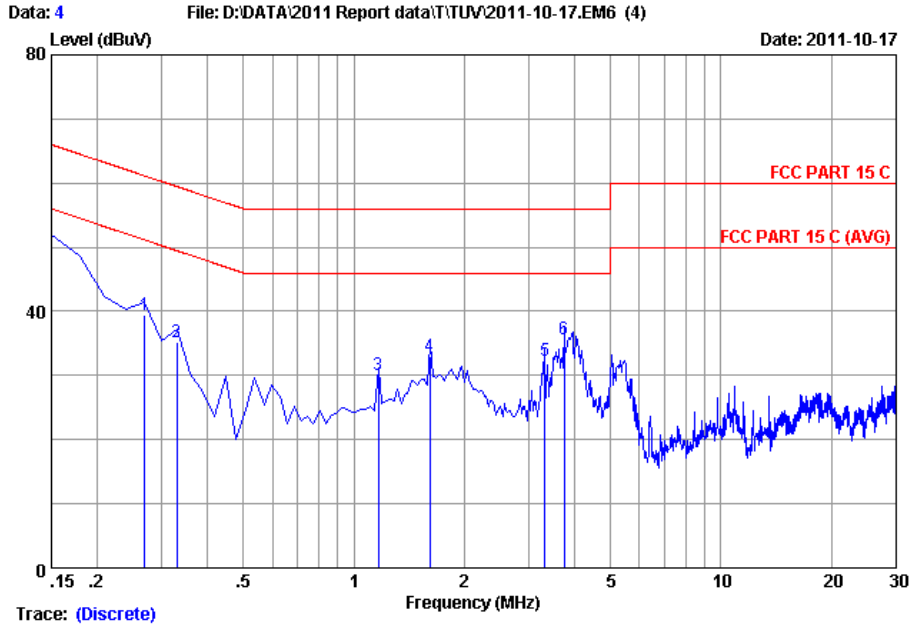

Site no :1#conduction Data No :4
Dis./Ant. :** 2011 ESH2-Z5 LINE
Limit :FCC PART 15 C
Env./Ins. :25.5*C/55% Engineer :Paul Tian
EUT :Bluetooth Motion Sensor
Power Rating :DC 5V From PC input AC 120V/60Hz
Test Mode :Tx

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.26940	0.18	9.98	29.32	39.48	61.14	21.66	QP
2	0.32910	0.18	9.98	25.05	35.21	59.47	24.26	QP
3	1.165	0.24	9.98	19.87	30.09	56.00	25.91	QP
4	1.613	0.28	9.97	22.73	32.98	56.00	23.02	QP
5	3.314	0.34	9.95	21.91	32.20	56.00	23.80	QP
6	3.732	0.34	9.94	25.31	35.59	56.00	20.41	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)
+Reading.
2.If the average limit is met when useing a quasi-peak detector.
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.

Figure 59: Test figure of Radiated emissions, mode C, Horizontal polarity (30MHz – 1GHz)

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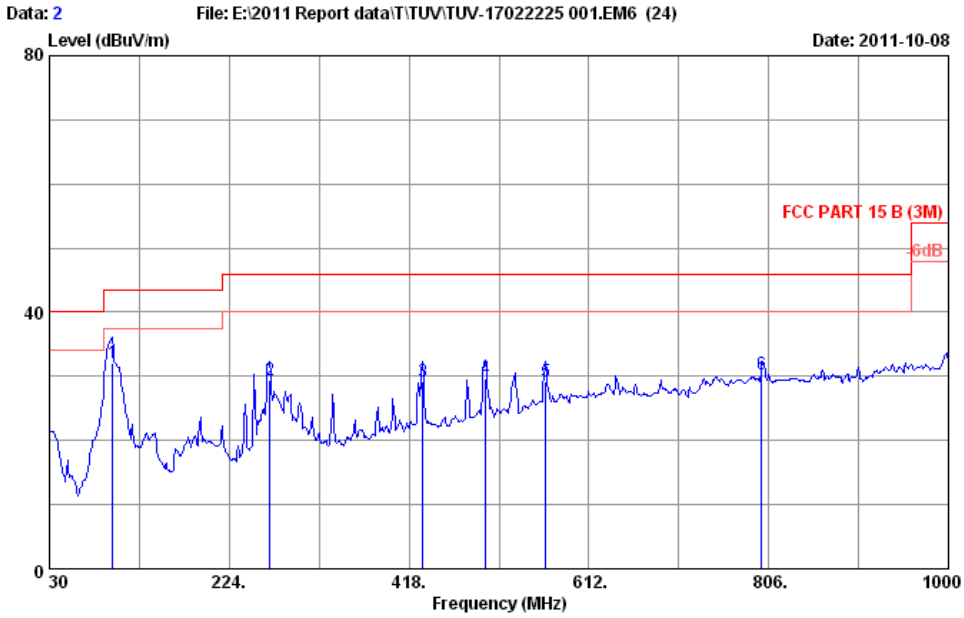

Site no. : 3m Chamber Data no. : 2
Dis. / Ant. : 3m 2010 CBL6111C 2598 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B (3M)
Env. / Ins. : 24*C/56% Engineer : Leo _Li
EUT : Bluetooth Motion Sensor
Power rating : DC 5V From PC Input AC 120V/60Hz
Test Mode : Charging

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	97.900	10.12	1.16	20.90	32.18	43.50	11.32	QP
2	267.650	13.50	2.63	13.20	29.33	46.00	16.67	QP
3	432.550	17.42	3.55	8.23	29.20	46.00	16.80	QP
4	500.450	18.30	4.00	7.25	29.55	46.00	16.45	QP
5	565.440	19.61	4.32	5.34	29.27	46.00	16.73	QP
6	798.240	22.02	5.49	2.88	30.39	46.00	15.61	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Figure 60: Test figure of Radiated emissions, mode C, Vertical polarity (30MHz – 1GHz)

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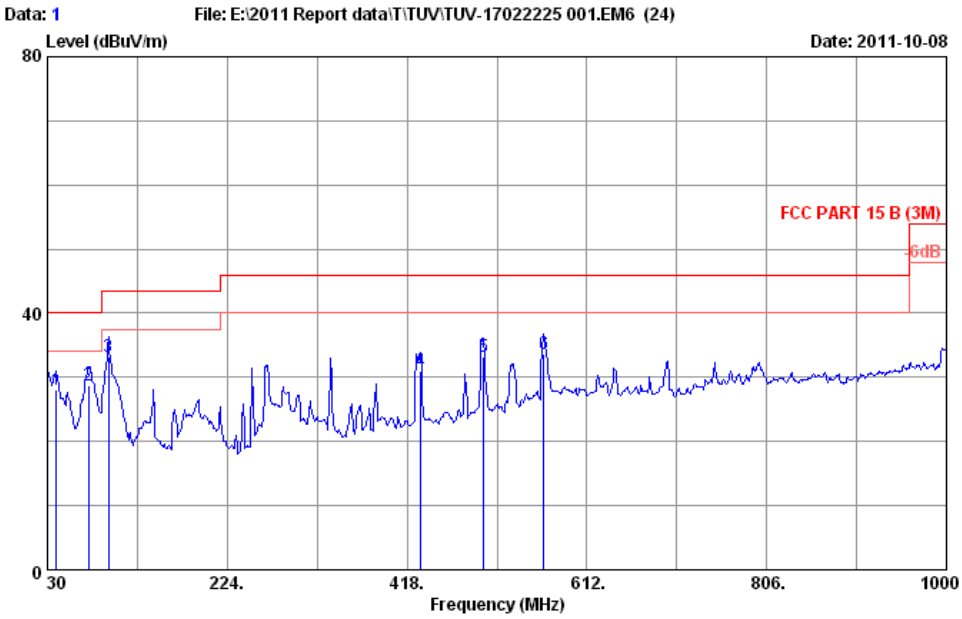


```
Site no.      : 3m Chamber                    Data no.   : 1
Dis. / Ant.   : 3m   2010 CBL6111C 2598       Ant. pol.  : VERTICAL
Limit         : FCC PART 15 B (3M)
Env. / Ins.   : 24*C/56%                      Engineer   : Leo _Li
EUT           : Bluetooth Motion Sensor
Power rating  : DC 5V From PC Input AC 120V/60Hz
Test Mode     : Charging
```

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	39.700	14.50	0.71	12.84	28.05	40.00	11.95	QP
2	74.620	7.30	1.00	20.34	28.64	40.00	11.36	QP
3	95.960	9.84	1.14	22.30	33.28	43.50	10.22	QP
4	432.550	17.42	3.55	10.01	30.98	46.00	15.02	QP
5	500.450	18.30	4.00	10.86	33.16	46.00	12.84	QP
6	565.440	19.61	4.32	9.78	33.71	46.00	12.29	QP

```
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
         2. The emission levels that are 20dB below the official
            limit are not reported.
```

Figure 61: Test figure of Radiated emissions, mode C, Horizontal polarity (1GHz – 6GHz)

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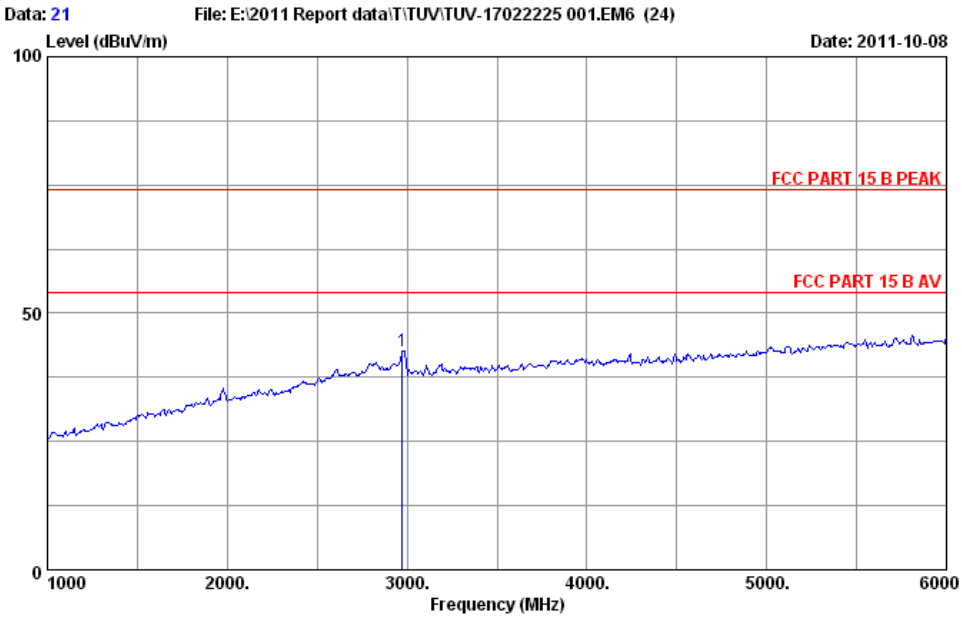


```
Site no.      : 3m chamber                  Data no.   : 21
Dis. / Ant.   : 3m   2011 3115 4580         Ant. pol.  : HORIZONTAL
Limit         : FCC PART 15 B PEAK
Env. / Ins.   : 24*C/56%                    Engineer   : Leo _Li
EUT           : Bluetooth Motion Sensor
Power Rating  : DC 5V From PC Input AC 120V/60Hz
Test Mode     : Charging
                :
                :
```

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2975.000	29.87	6.25	40.91	42.72	74.00	31.28	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Figure 62: Test figure of Radiated emissions, mode C, Vertical polarity (1GHz – 6GHz)

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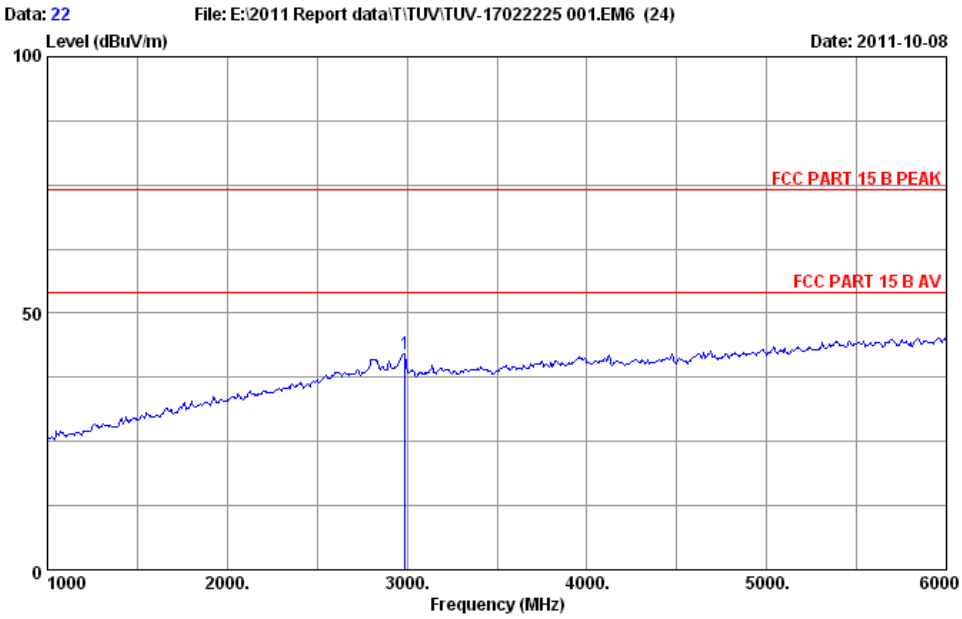


```
Site no.      : 3m chamber                  Data no.   : 22
Dis. / Ant.   : 3m   2011 3115 4580         Ant. pol.  : VERTICAL
Limit         : FCC PART 15 B PEAK
Env. / Ins.   : 24*C/56%                    Engineer   : Leo _Li
EUT           : Bluetooth Motion Sensor
Power Rating  : DC 5V From PC Input AC 120V/60Hz
Test Mode     : Charging
                :
                :
```

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2990.000	29.94	6.28	40.19	42.11	74.00	31.89	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.