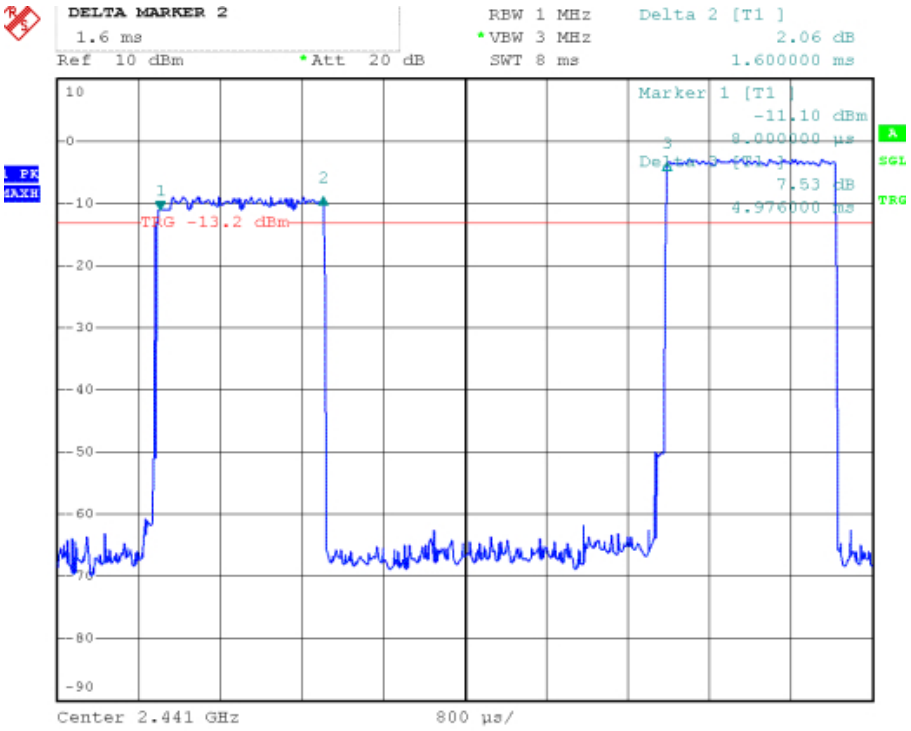
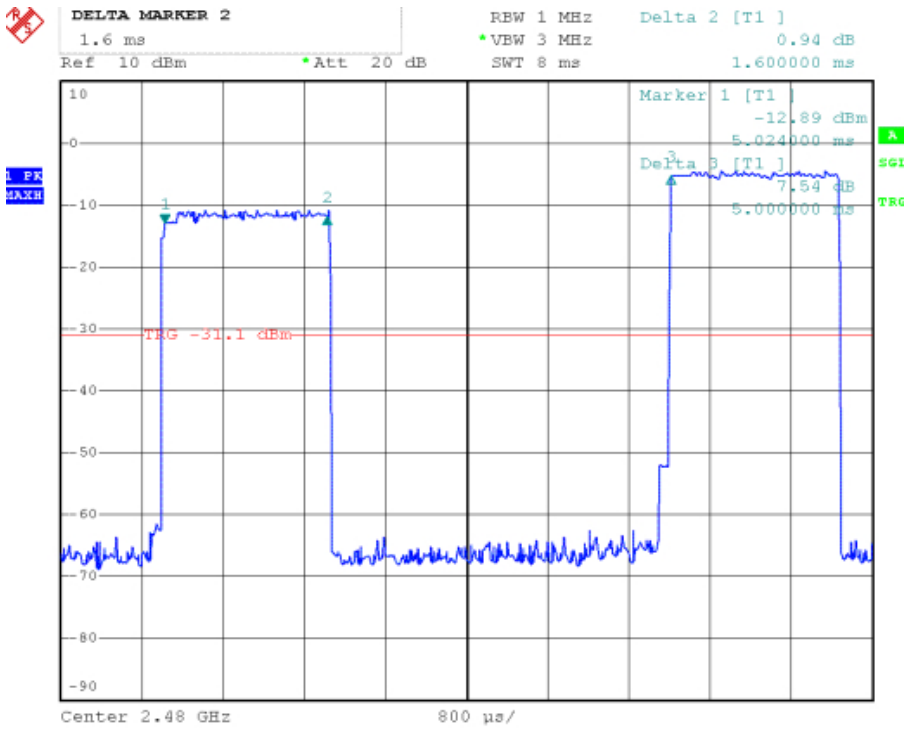
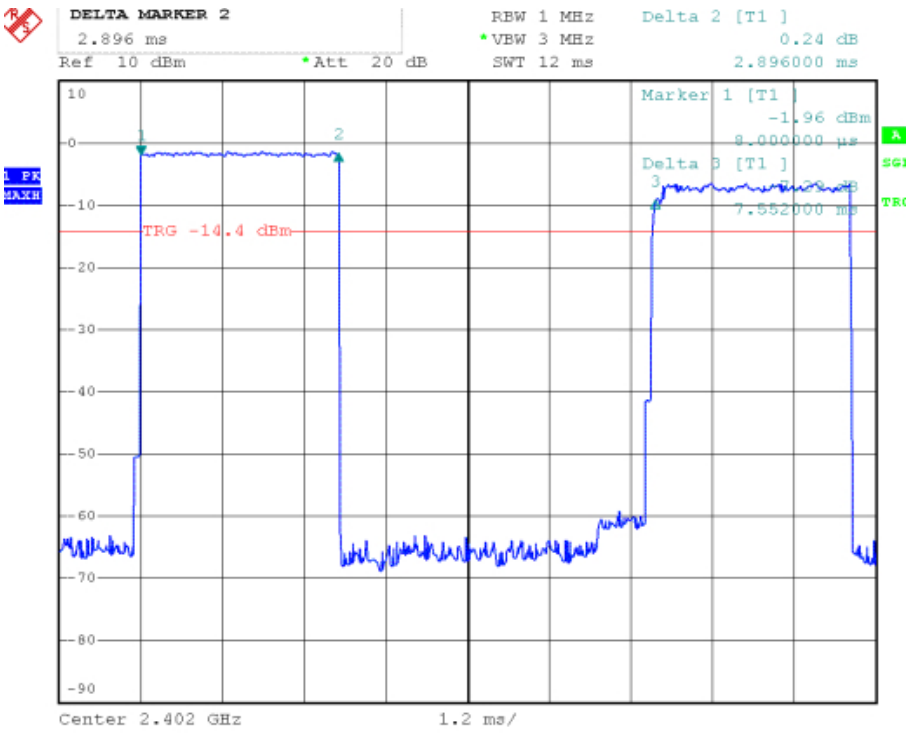
Channel Middle



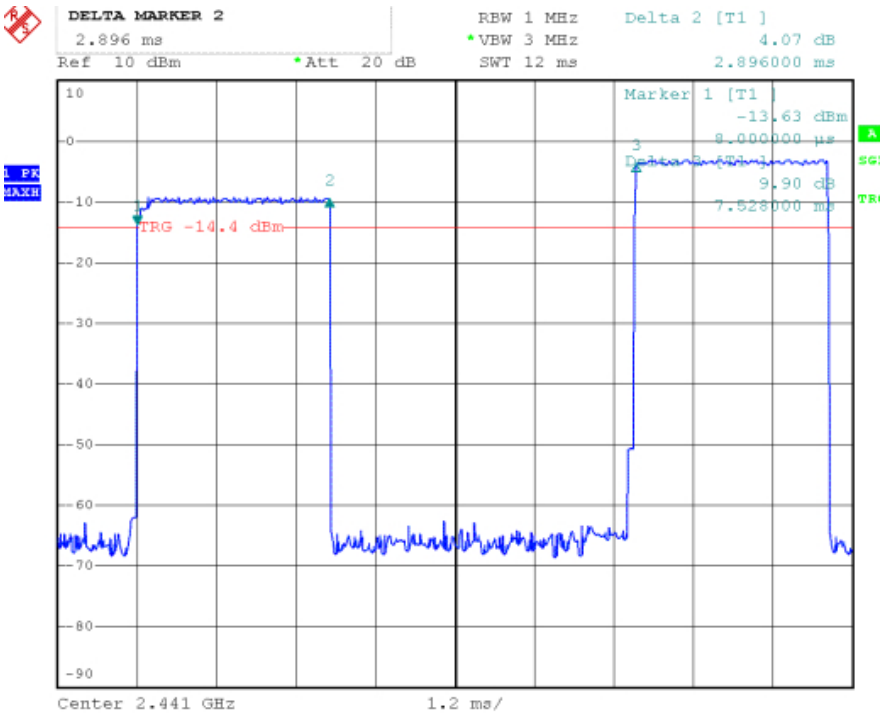
Channel High



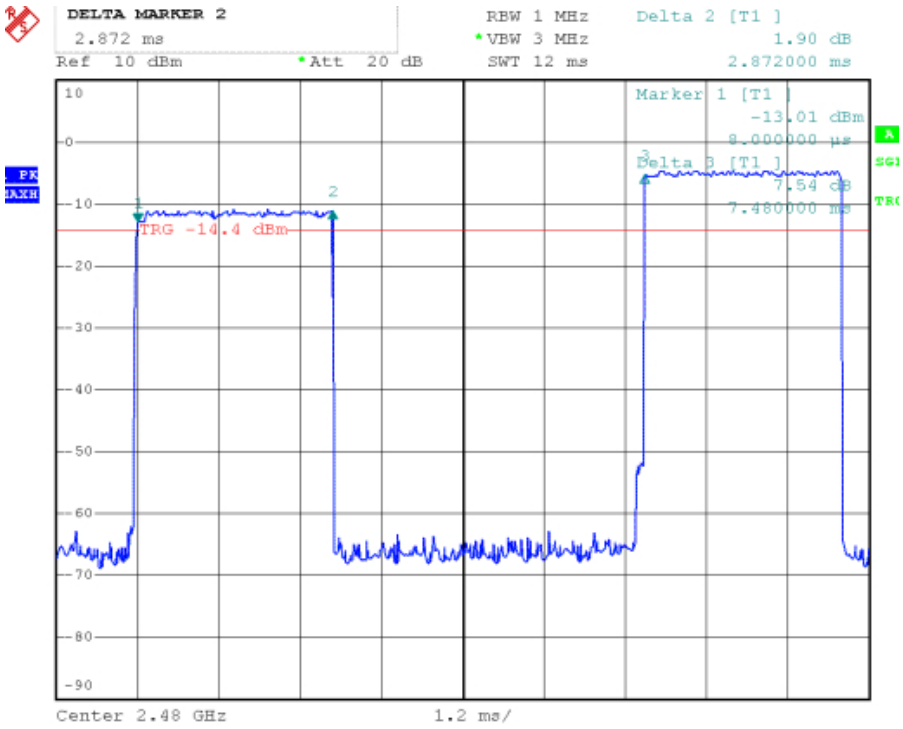
EDR 3M 3DH5
Channel Low



Channel Middle



Channel High



9. Test of Maximum Peak Output Power

9.1 Applicable Standard

Section 15.247(b)(1): For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels and The maximum peak output power shall not exceed 1 watt. For all other frequency hopping systems in this frequency band, The maximum peak output power shall not exceed 0.125 watt.

9.2 EUT Setup

Spectrum Analyzer

9.3 Test Equipment List and Details

See section 2.5.

9.4 Test Procedure

1. The transmitter output was connected to the peak power meter and recorded the peak value.

2. Peak power meter parameter set to auto attenuator and filter is the same as.

3. Repeated the 1 for the middle and highest channel of the EUT.

9.5 Test Result

Temperature (℃) : 22~23	EUT: Bluetooth Sunglasses
Humidity (%RH): 50~54	M/N: K1
Barometric Pressure (mbar): 950~1000	Operation Condition: Tx Mode

BDR 1M

Modulation Type	Channel No.	Frequency (MHz)	Output Power (dBm)	Limits (dBm)	Margin (dB)
GFSK	Low	2402.00	-0.55	21	-24.65
GFSK	Middle	2441.00	-1.93	21	-25.43
GFSK	High	2480.00	-3.07	21	-26.72

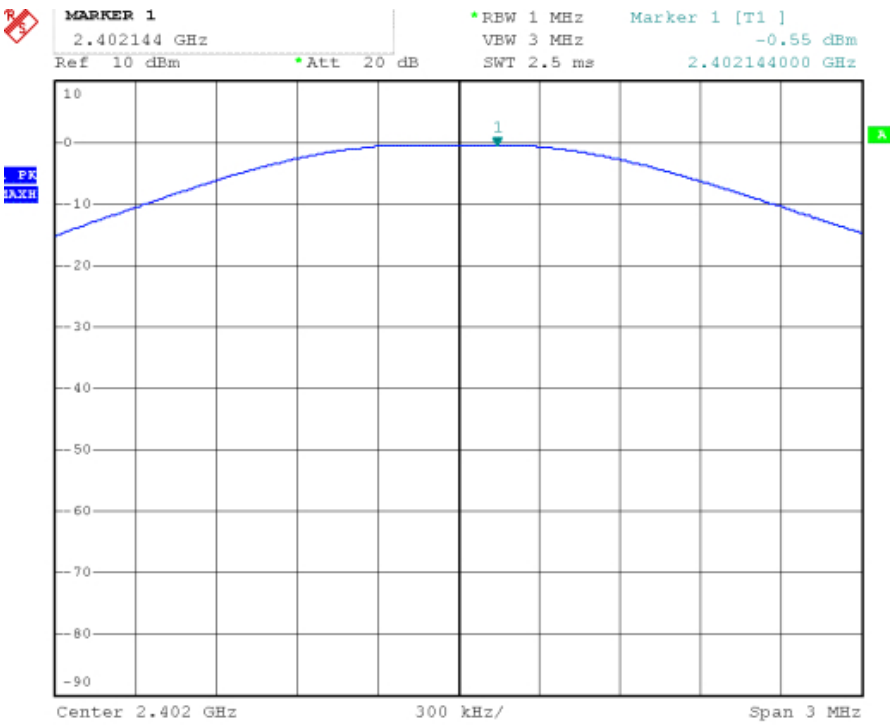
EDR 2M

Modulation Type	Channel No.	Frequency (MHz)	Output Power (dBm)	Limits (dBm)	Margin (dB)
Pi/4 DQPSK	Low	2402.00	-1.56	21	-24.87
Pi/4 DQPSK	Middle	2441.00	-3.58	21	-25.32
Pi/4 DQPSK	High	2480.00	-5.05	21	-26.75

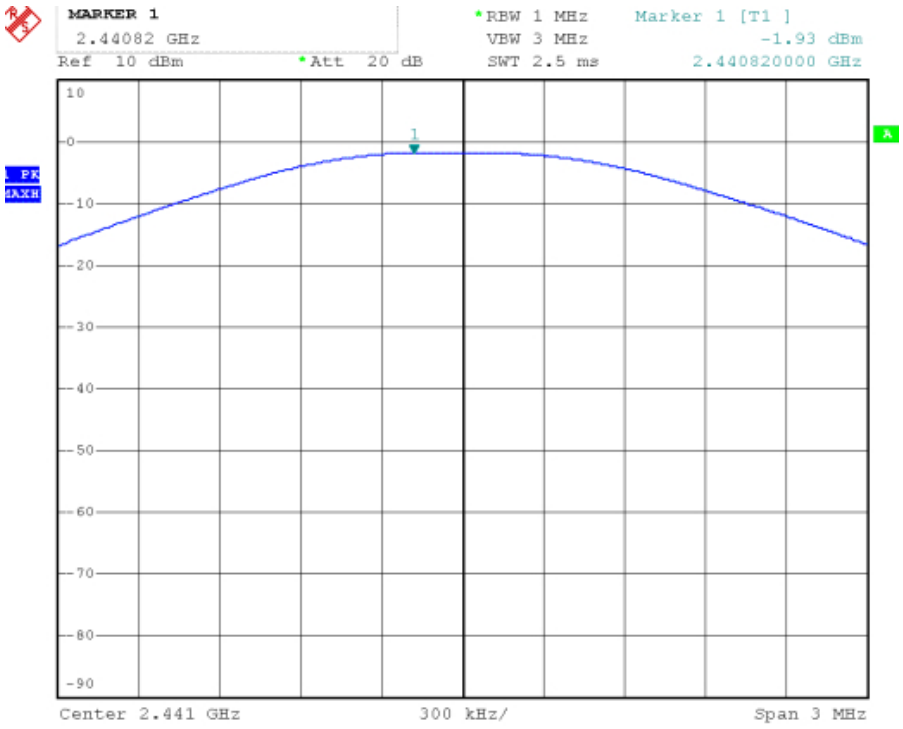
EDR 3M

Modulation Type	Channel No.	Frequency (MHz)	Output Power (dBm)	Limits (dBm)	Margin (dB)
8-DPSK	Low	2402.00	-1.45	21	-24.82
8-DPSK	Middle	2441.00	-3.40	21	-25.25
8-DPSK	High	2480.00	-4.76	21	-26.74

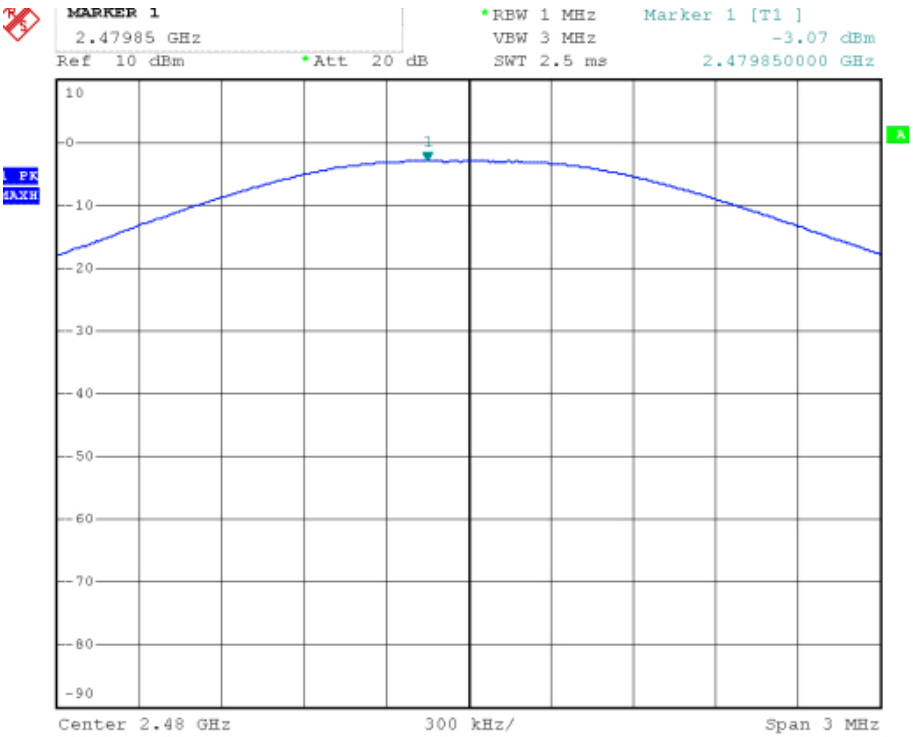
BDR 1M
Channel Low



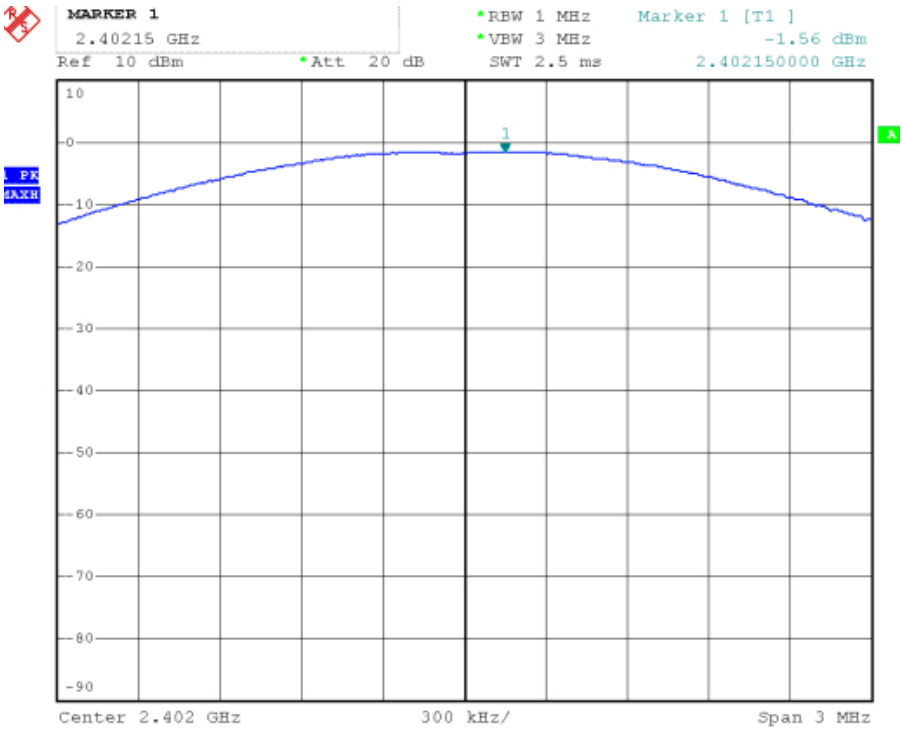
Channel Middle



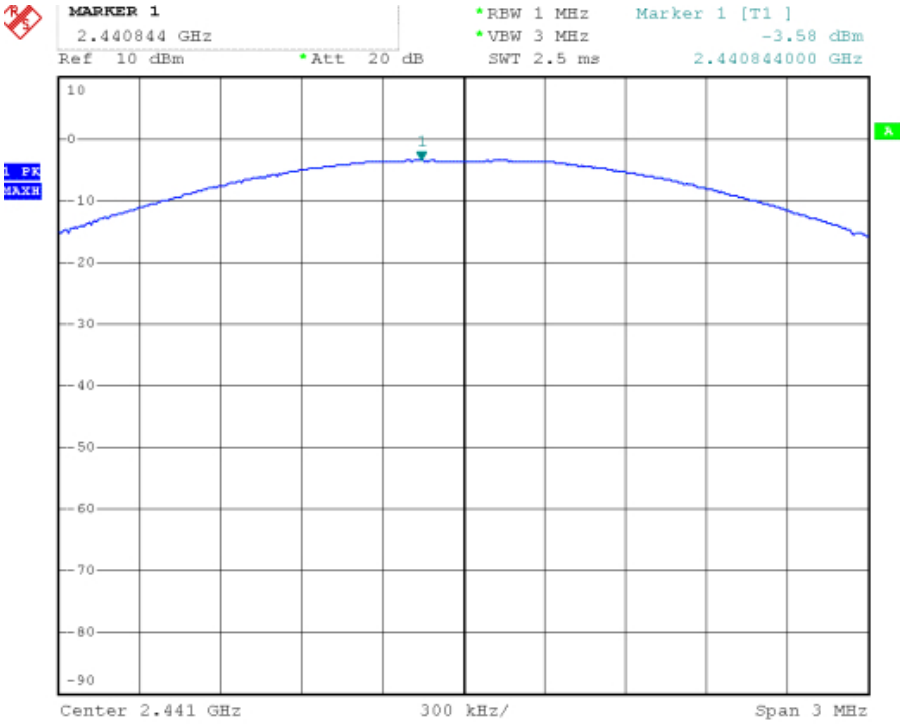
Channel High



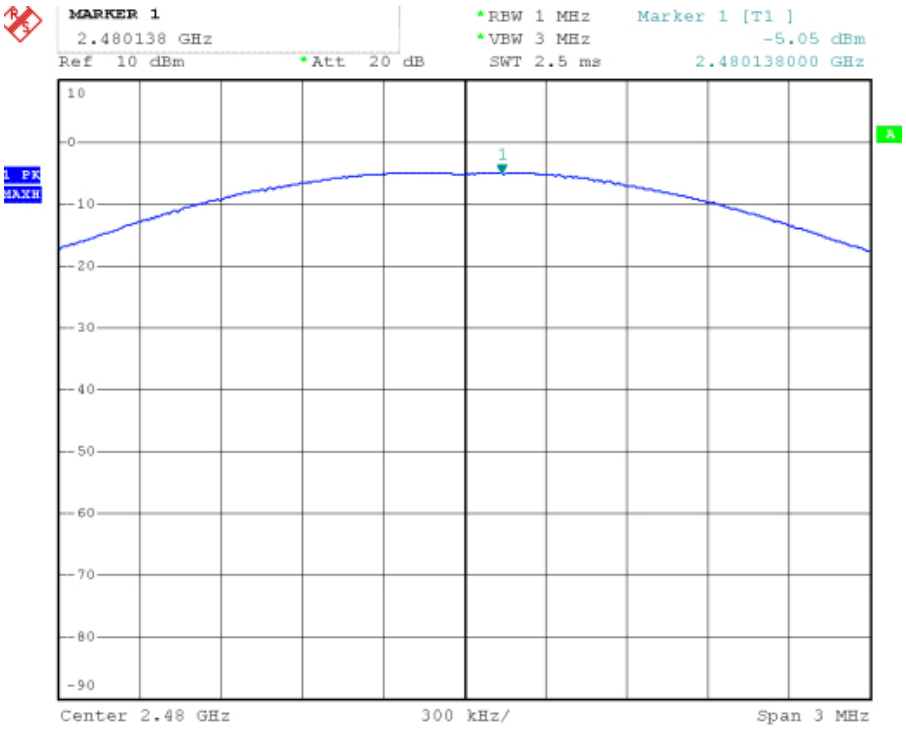
EDR 2M
Channel Low



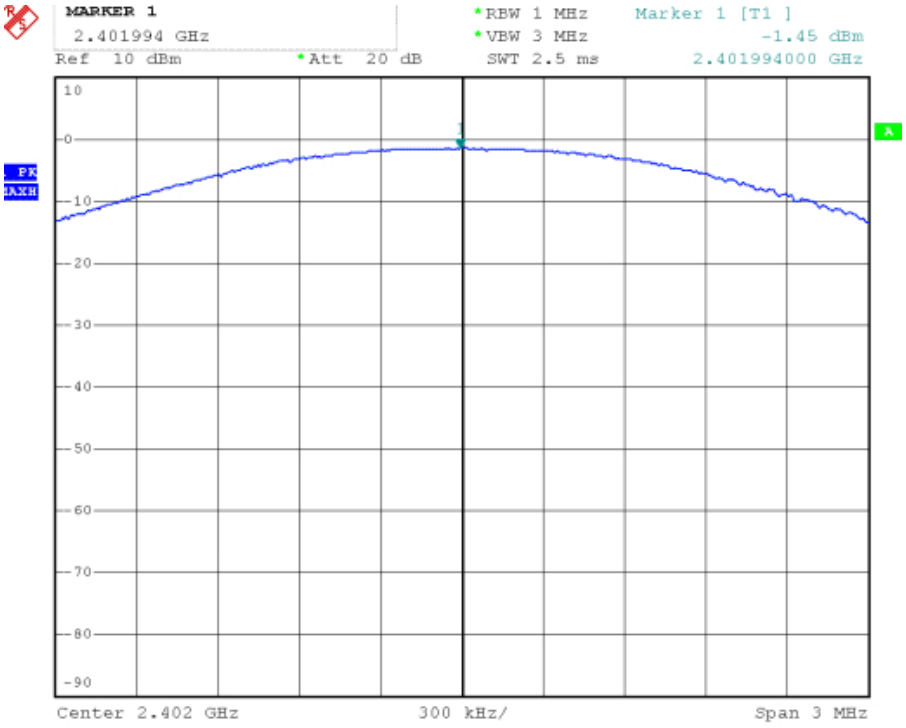
Channel Middle



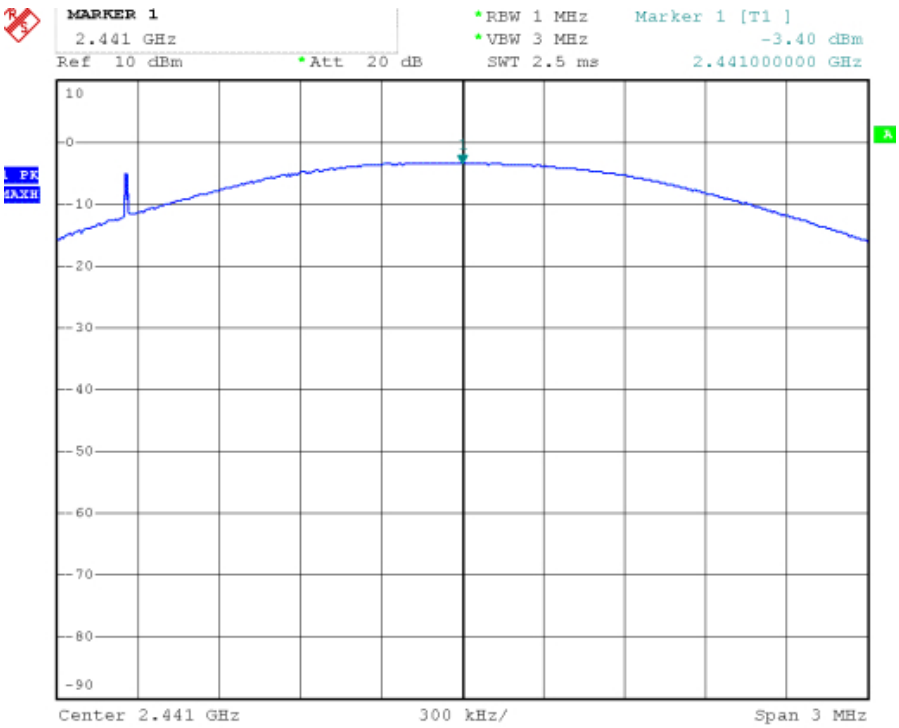
Channel High



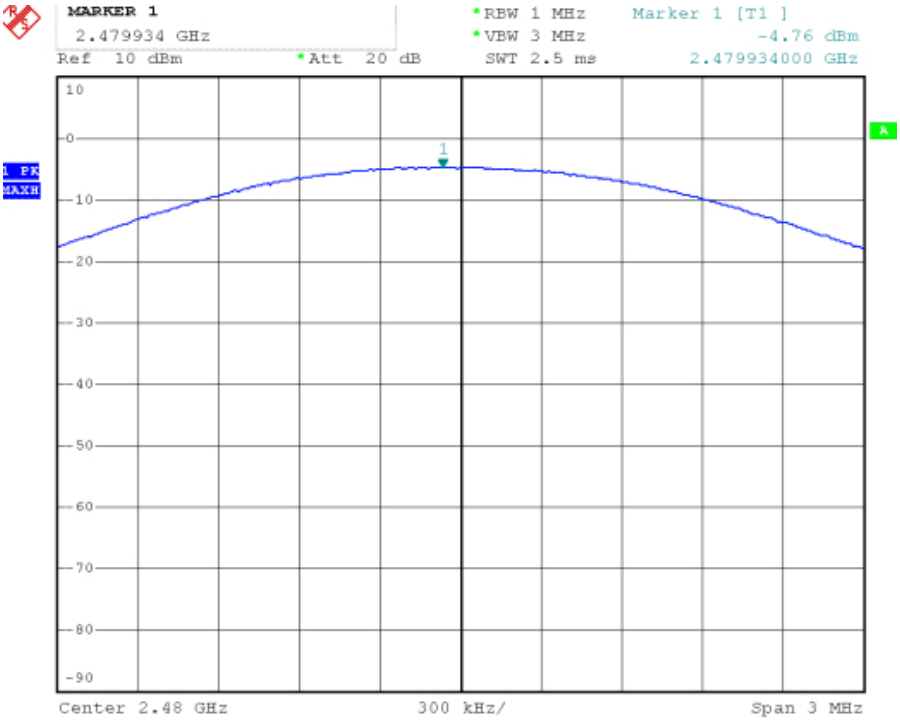
EDR 3M
Channel Low



Channel Middle



Channel High



10. Test of Band Edges Emission

10.1 Applicable Standard

Section 15.247(d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. In addition, radiated emissions that fall in the restricted bands, as defined in Section 15.205, must also comply with the radiated emission limits specified in Section 15.209.

10.2 EUT Setup

Radiated Measurement Setup

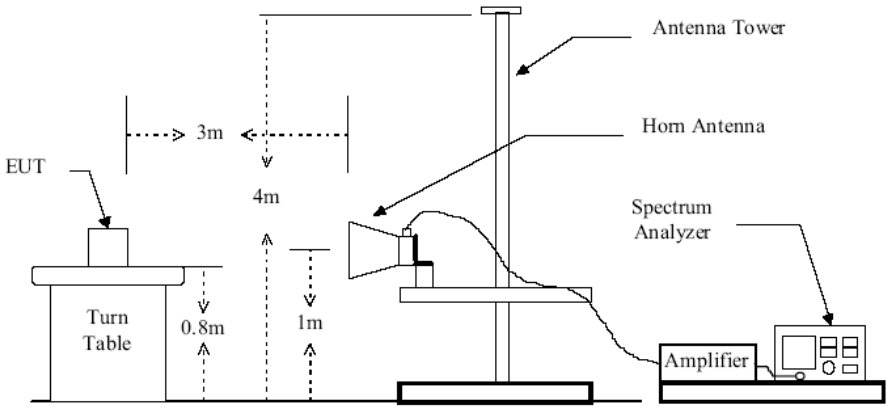


Figure 2 : Frequencies measured above 1 GHz configuration

Conducted Measurement Setup

Spectrum Analyzer

10.3 Test Equipment List and Details

See section 2.5.

10.4 Test Procedure

Conducted Measurement

1. The transmitter is set to the lowest channel.

2. The transmitter output was connected to the spectrum analyzer via a cable .

3. Set both RBW and VBW of spectrum analyzer to 100KHz with convenient frequency span including 100MHz bandwidth from lower band edge. Then detector set to peak and max hold this trace.

4. The lowest band edges emission was measured and recorded.

5. The transmitter set to the highest channel and repeated 2~4.

Radiated Measurement

1. Configure the EUT according to ANSI C63.4-2003

2. The turntable was rotated by 360 degrees to determine the position of the highest radiation.

3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emission field strength of both horizontal and vertical polarization.

4. For band edge emission, the antenna tower was scan (from 1 M to 4 M) and then the turn table was rotated (from 0 degree to 360 degrees) to find the maximum reading.

5. For band edge emission, use 1MHz VBW and 1MHz RBW for reading under AV and use 1MHz VBW and 1MHz RBW for reading under PK.

10.5 Test Result

Temperature (℃) : 22~23	EUT: Bluetooth Sunglasses
Humidity (%RH): 50~54	M/N: K1
Barometric Pressure (mbar): 950~1000	Operation Condition: Tx Mode

Radiated Test Result

Worst Case BDR 1M

Frequency (MHz)	Antenna Polarization	Emission Read Value (dBμV/m)	Limits (dBμV/m)
2389.5	H	34.12	54
2389.5	V	33.45	54
2483.6	H	35.22	54
2483.6	V	33.64	54

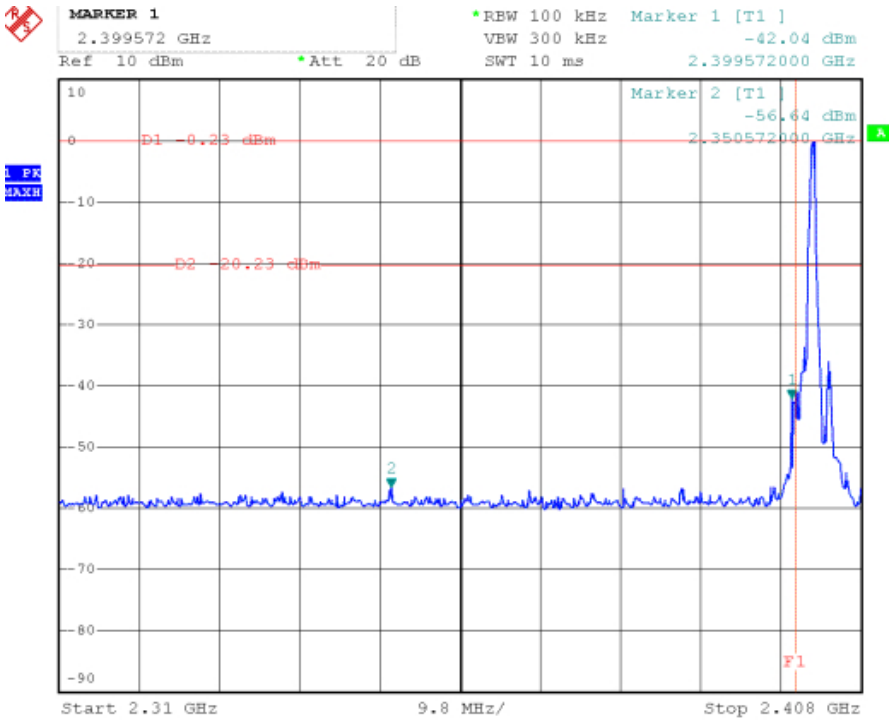
Worst Case EDR 2M

Frequency (MHz)	Antenna Polarization	Emission Read Value (dBμV/m)	Limits (dBμV/m)
2389.4	H	33.43	54
2389.4	V	32.55	54
2483.7	H	35.89	54
2483.7	V	33.65	54

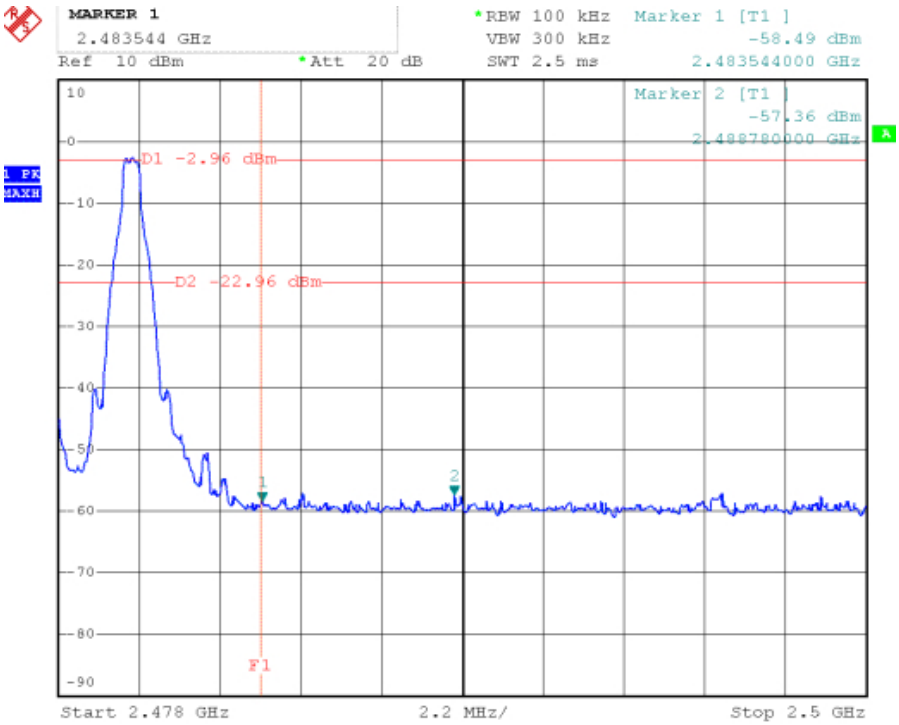
Worst Case EDR 3M

Frequency (MHz)	Antenna Polarization	Emission Read Value (dBμV/m)	Limits (dBμV/m)
2389.5	H	35.33	54
2389.5	V	33.24	54
2483.6	H	35.68	54
2483.6	V	34.24	54

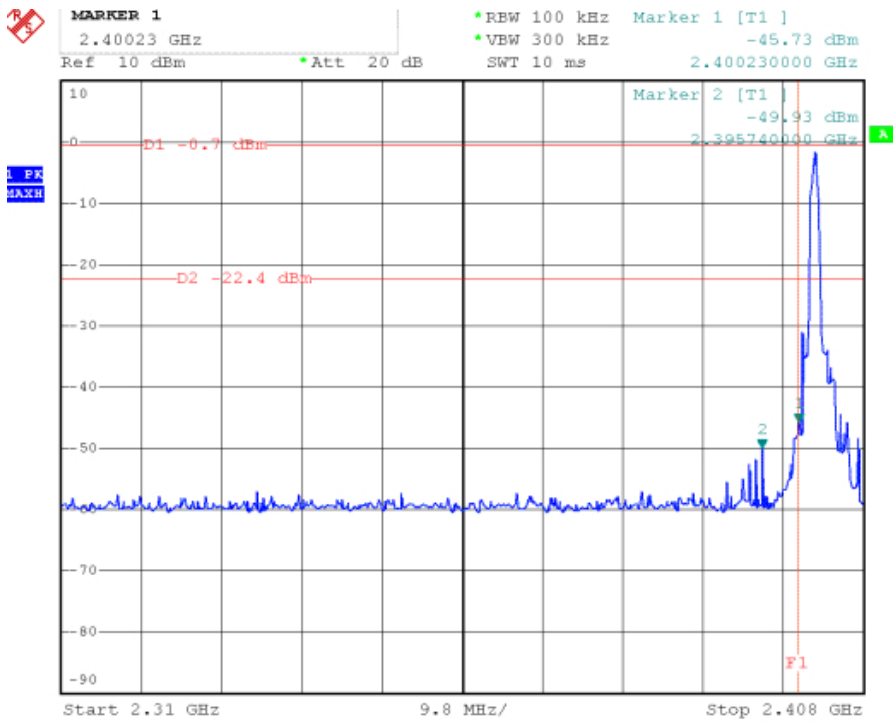
Conducted Test Result
BDR 1M
Low Channel



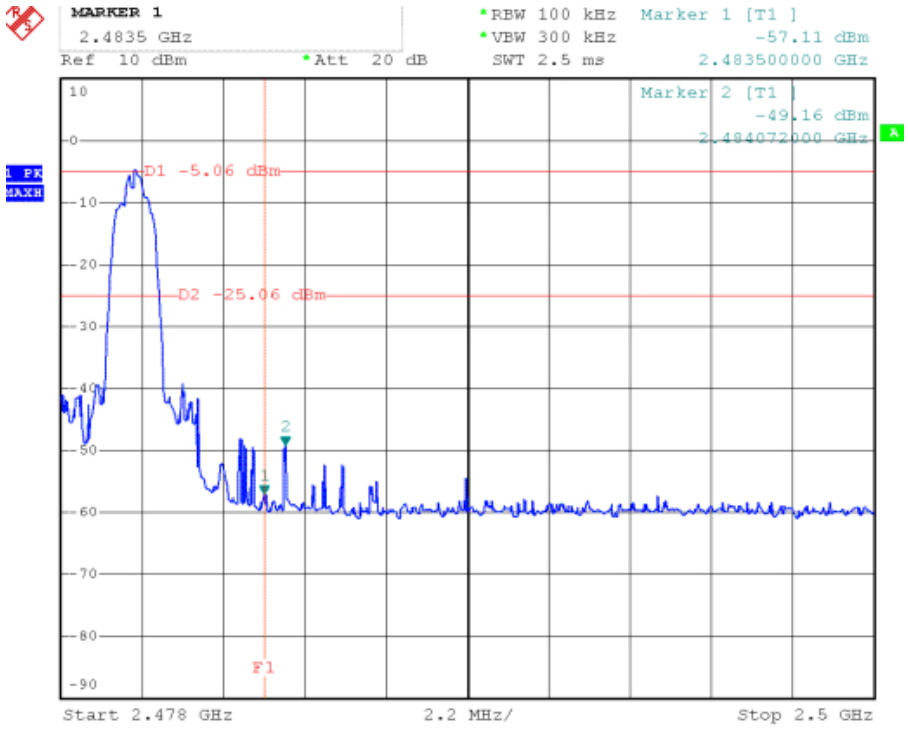
High Channel



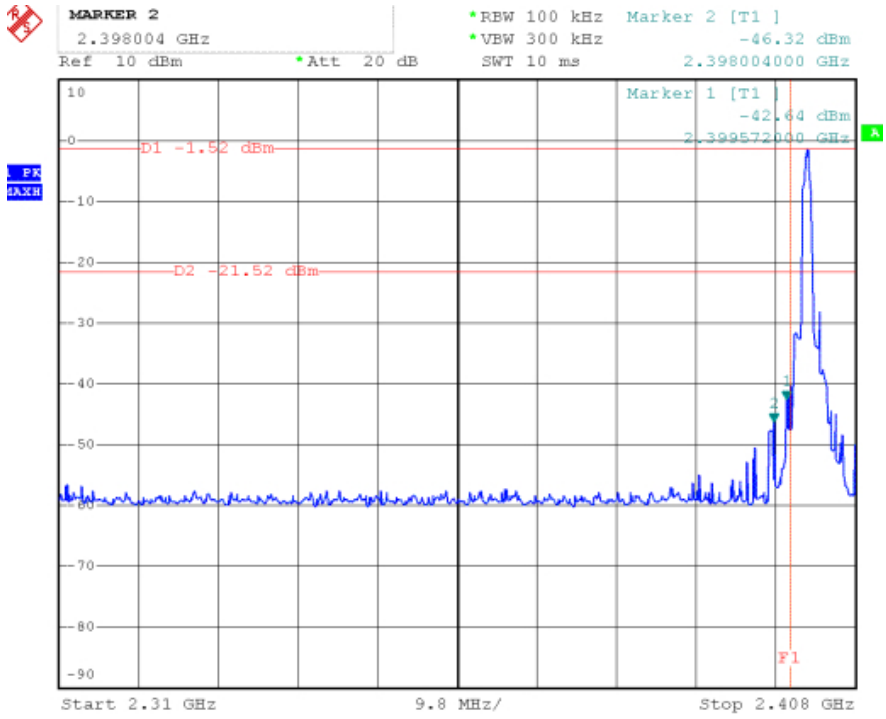
EDR 2M
Low Channel



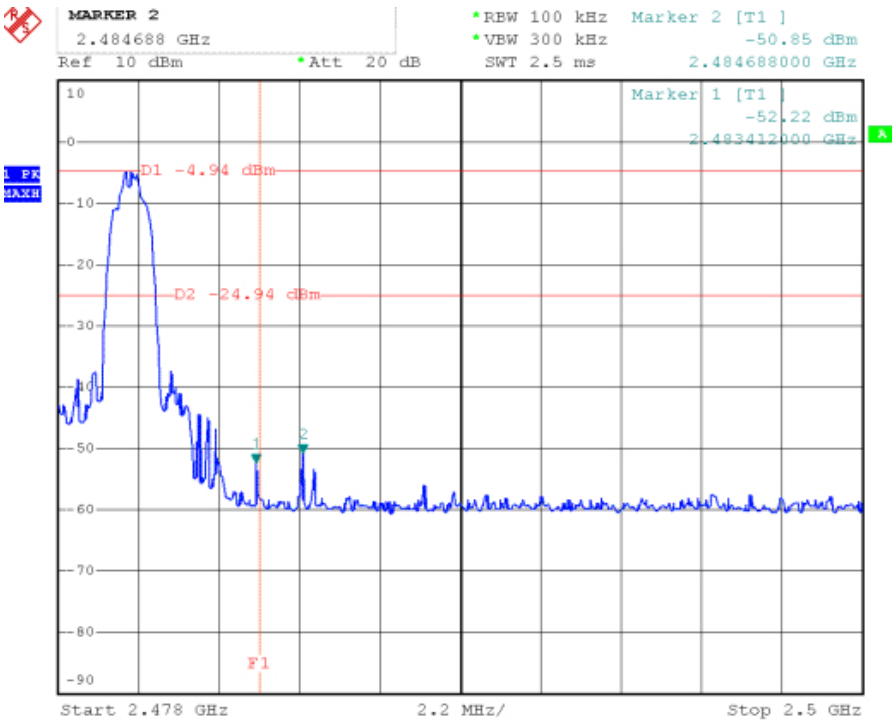
High Channel



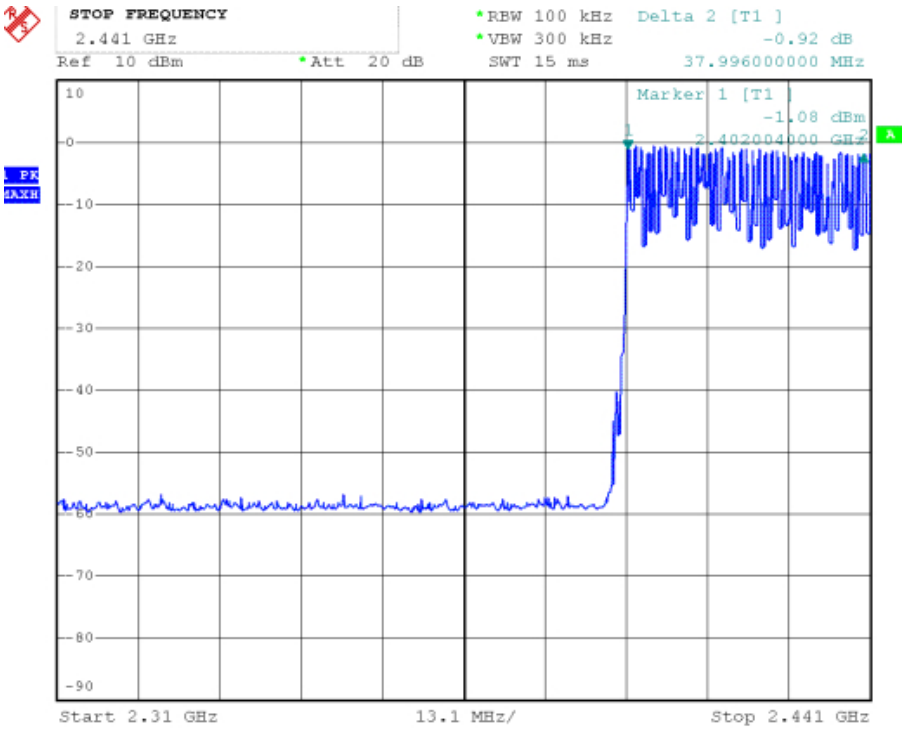
EDR 3M
Low Channel



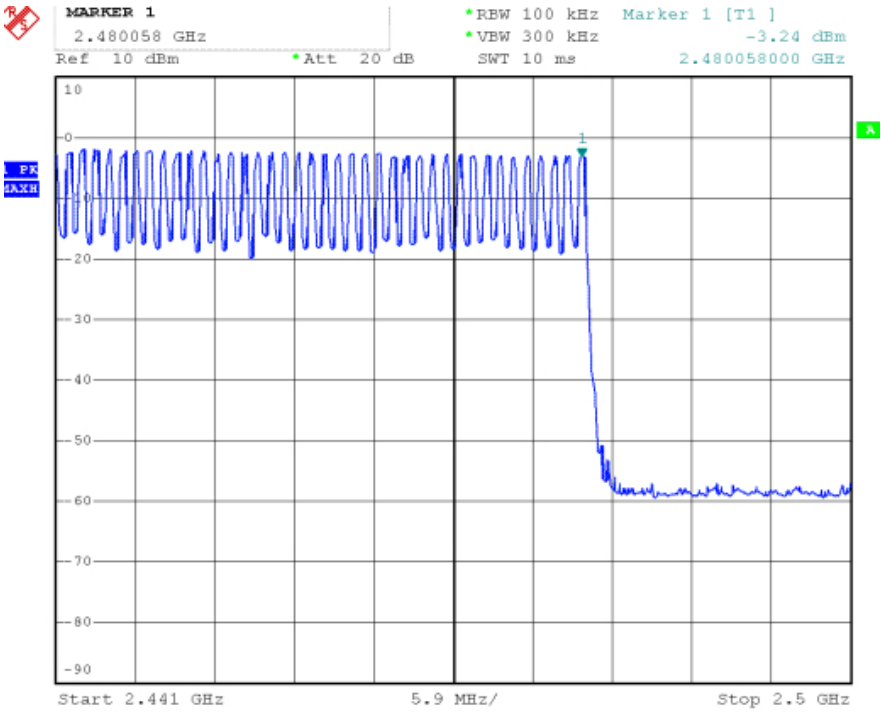
High Channel



Hopping Mode Worst case BDR 1M
Low



High



11. Test of Spurious Radiated Emission

11.1 Applicable Standard

Section 15.247(d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains
the highest level of the desired power, based on either an RF conducted or a radiated measurement. In addition, radiated emissions that fall in the restricted bands, as defined in Section 15.205, must also comply with the radiated emission limits specified in Section 15.209.

11.2 EUT Setup

Conducted Measurement Setup

Spectrum Analyzer

Radiated Measurement Setup

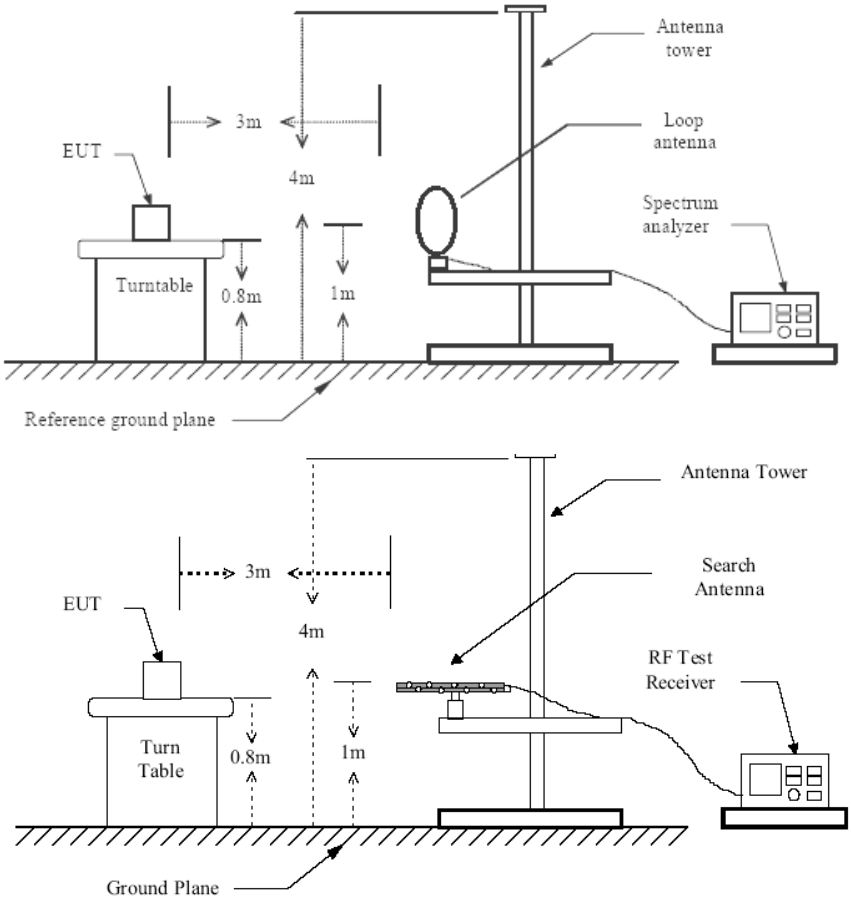


Figure 1 : Frequencies measured below 1 GHz configuration

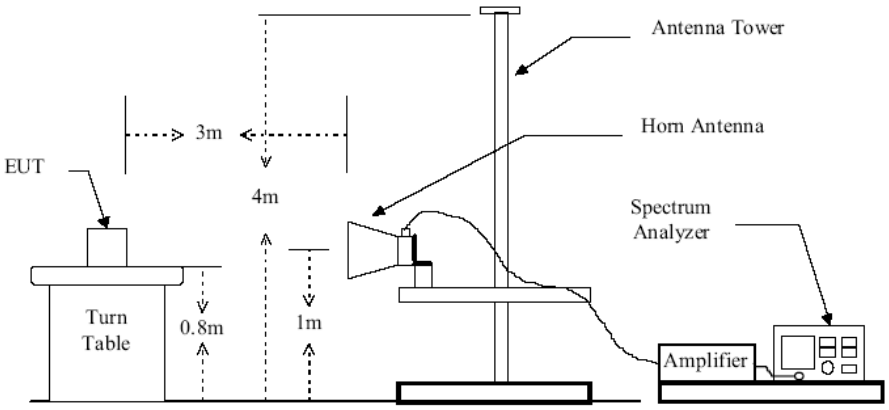


Figure 2 : Frequencies measured above 1 GHz configuration

11.3 Test Equipment List and Details

See section 2.5.

11.4 Test Procedure

Conducted Measurement

1. For emission above 1GHz to 26G,conducted measurement method is used.

2. The transmitter is set to the lowest channel.

3. The transmitter output was connected to the spectrum analyzer via a cable and cable loss is used as the offset of the spectrum analyzer.

4. Set RBW to 1 MHz and VBW to 3 MHz, Then detector set to peak and max hold this trace.

5. The lowest band edges emission was measured and recorded.

6. The transmitter set to the highest channel and repeated 2~4.

Radiated Measurement

1. Configure the EUT according to ANSI C63.4-2003

2. The EUT was placed on the top of the turntable 0.8 meter above ground.

3. Receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable. When the frequency spectrum measured started from 9 kHz to 30 MHz, a loop antenna is used. When the frequency spectrum measured started from 30 MHz to 1000 MHz and above 1000 MHz, a broadband receiving antenna and the horn antenna are used.

4. Power on the EUT and all the supporting units.

5. The turntable was rotated by 360 degrees to determine the position of the highest radiation.

6. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emission field strength of both horizontal and vertical polarization.

7. For each suspected emission, the antenna tower was scanned (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.

8. According to the characteristic of the EUT crystals, the range of frequencies was investigated from 9KHz to 30MHz, 30MHz to 1GHz and 1GHz to 26GHz.

9. For emission below 1GHz, Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.

10. For emission above 1GHz, Set the RBW=1MHz,VBW=3MHz for Peak Detector while the RBW=1MHz, VBW=10Hz for Average Detector, Readings are both peak and average values.

11. The pre-test have done for the EUT in three axes and found the worst emission at position shown in test setup photos. The worst case data is recorded in the report. All emission not reported are much lower than the prescribed limits.

11.5 Test Result

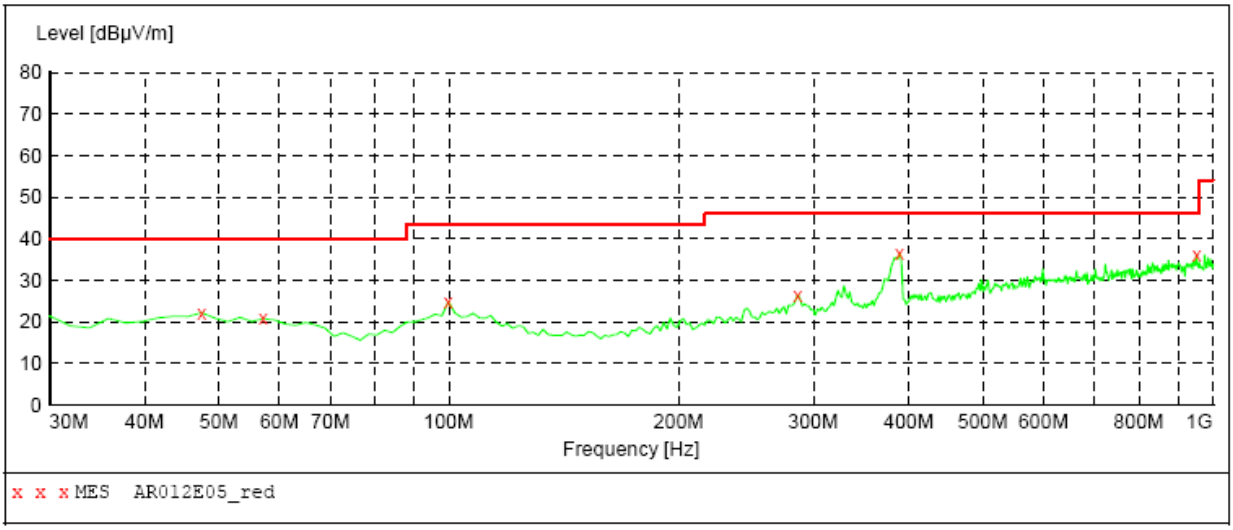
Temperature (℃) : 22~23	EUT: Bluetooth Sunglasses
Humidity (%RH): 50~54	M/N: K1
Barometric Pressure (mbar): 950~1000	Operation Condition: TX Mode

The worst Spurious Emission Data BDR Mode Below 1GHz Channel Low:

EUT:	Bluetooth Sunglasses
M/N:	K1
Operating Condition:	TX Mode
Test Site:	3m CHAMBER
Operator:	Chen
Test Specification:	DC 3.7V from battery
Comment:	Polarization: Horizontal

SWEEP TABLE: "test (30M-1G)"

Short Description:			Field Strength		
Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
30.0 MHz	1.0 GHz	MaxPeak	Coupled	100 kHz	VULB9163 NEW



MEASUREMENT RESULT: "AR012E05_red"

2/24/2014 18:35

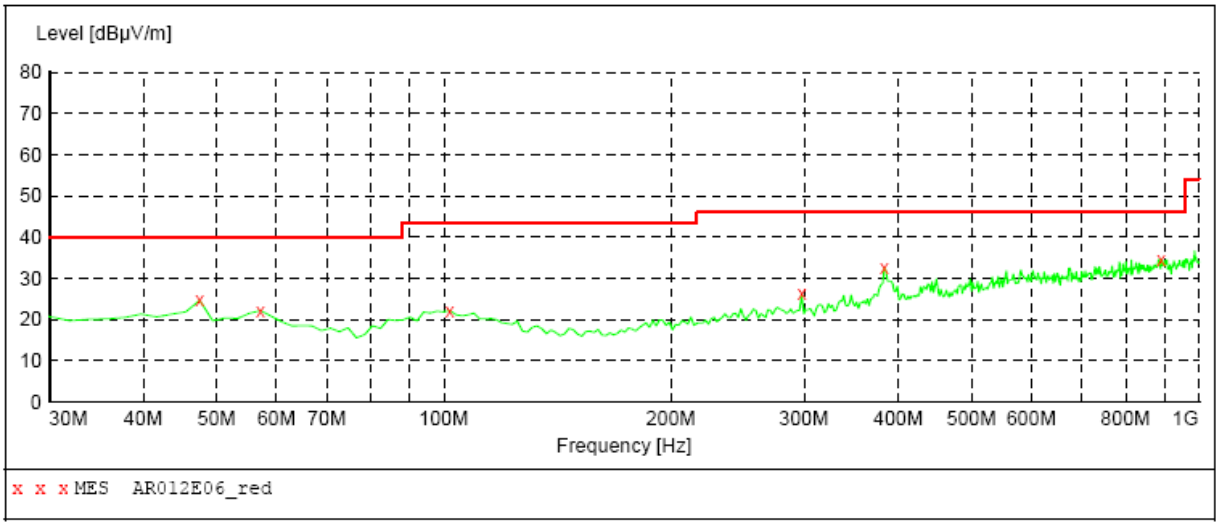
Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
47.460000	22.20	15.8	40.0	17.8	QP	100.0	0.00	HORIZONTAL
57.160000	20.80	15.1	40.0	19.2	QP	100.0	0.00	HORIZONTAL
99.840000	24.90	17.5	43.5	18.6	QP	100.0	0.00	HORIZONTAL
286.080000	26.50	18.3	46.0	19.5	QP	100.0	0.00	HORIZONTAL
388.900000	36.60	21.2	46.0	9.4	QP	300.0	0.00	HORIZONTAL
951.500000	36.10	29.6	46.0	9.9	QP	300.0	0.00	HORIZONTAL

The worst Spurious Emission Data BDR Mode Below 1GHz Channel Low:

EUT:	Bluetooth Sunglasses
M/N:	K1
Operating Condition:	TX Mode
Test Site:	3m CHAMBER
Operator:	Chen
Test Specification:	DC 3.7V from battery
Comment:	Polarization: Vertical

SWEEP TABLE: "test (30M-1G)"

Short Description:			Field Strength		
Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
30.0 MHz	1.0 GHz	MaxPeak	Coupled	100 kHz	VULB9163 NEW



MEASUREMENT RESULT: "AR012E06_red"

2/24/2014 18:36

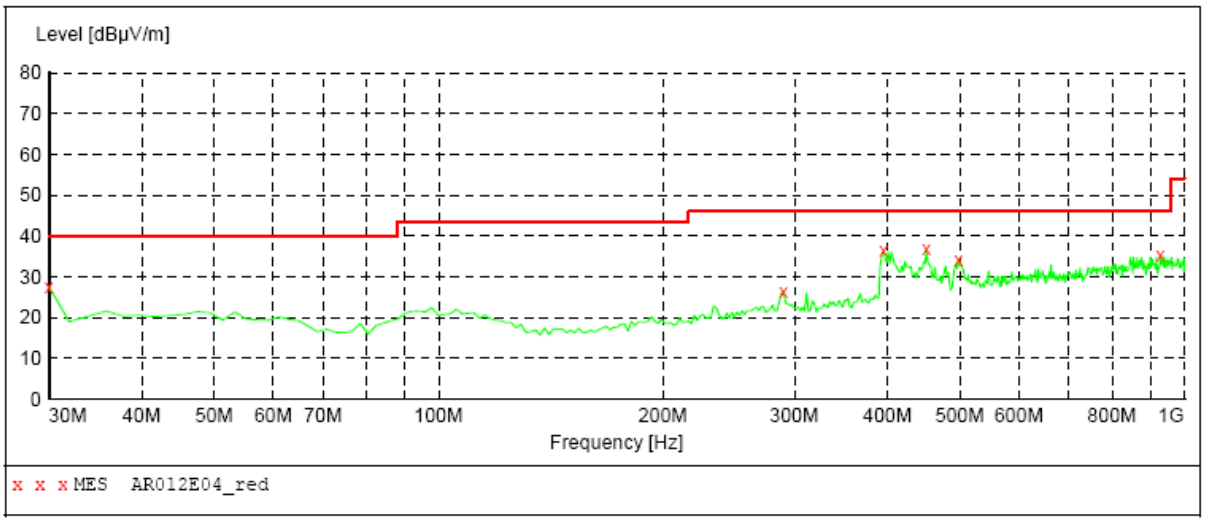
Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
47.460000	24.70	15.8	40.0	15.3	QP	100.0	0.00	VERTICAL
57.160000	22.20	15.1	40.0	17.8	QP	100.0	0.00	VERTICAL
101.780000	22.20	17.3	43.5	21.3	QP	100.0	0.00	VERTICAL
297.720000	26.30	18.7	46.0	19.7	QP	100.0	0.00	VERTICAL
383.080000	32.60	21.0	46.0	13.4	QP	100.0	0.00	VERTICAL
891.360000	34.70	29.1	46.0	11.3	QP	100.0	0.00	VERTICAL

The worst Spurious Emission Data BDR Mode Below 1GHz Channel Middle:

EUT:	Bluetooth Sunglasses
M/N:	K1
Operating Condition:	TX Mode
Test Site:	3m CHAMBER
Operator:	Chen
Test Specification:	DC 3.7V from battery
Comment:	Polarization: Horizontal

SWEEP TABLE: "test (30M-1G)"

Short Description:			Field Strength		
Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
30.0 MHz	1.0 GHz	MaxPeak	Coupled	100 kHz	VULB9163 NEW



MEASUREMENT RESULT: "AR012E04_red"

2/24/2014 18:34

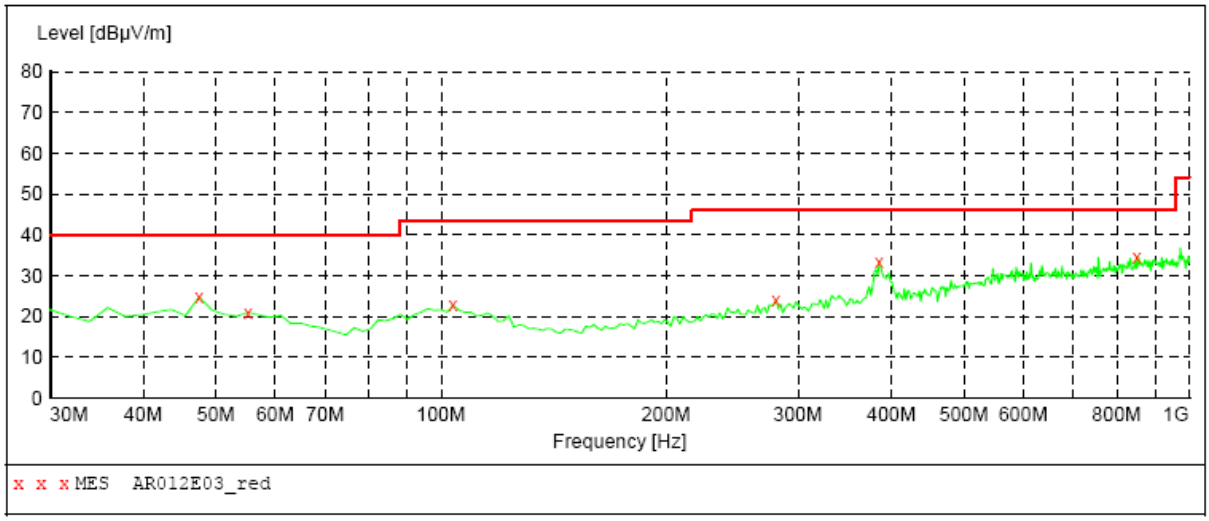
Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
30.000000	27.60	14.3	40.0	12.4	QP	100.0	0.00	HORIZONTAL
289.960000	26.50	18.4	46.0	19.5	QP	100.0	0.00	HORIZONTAL
394.720000	36.40	21.3	46.0	9.6	QP	300.0	0.00	HORIZONTAL
450.980000	36.90	22.1	46.0	9.1	QP	100.0	0.00	HORIZONTAL
497.540000	34.10	23.8	46.0	11.9	QP	300.0	0.00	HORIZONTAL
928.220000	35.30	29.4	46.0	10.7	QP	100.0	0.00	HORIZONTAL

The worst Spurious Emission Data BDR Mode Below 1GHz Channel Middle:

EUT:	Bluetooth Sunglasses
M/N:	K1
Operating Condition:	TX Mode
Test Site:	3m CHAMBER
Operator:	Chen
Test Specification:	DC 3.7V from battery
Comment:	Polarization: Vertical

SWEEP TABLE: "test (30M-1G)"

Short Description:			Field Strength		
Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
30.0 MHz	1.0 GHz	MaxPeak	Coupled	100 kHz	VULB9163 NEW



MEASUREMENT RESULT: "AR012E03_red"

2/24/2014 18:33

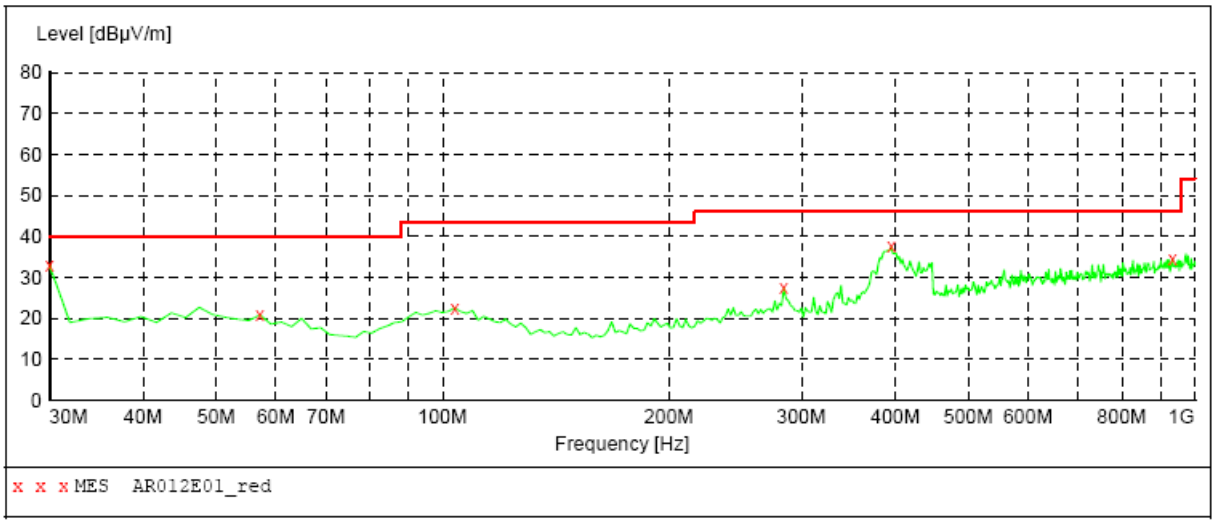
Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
47.460000	24.80	15.8	40.0	15.2	QP	100.0	0.00	VERTICAL
55.220000	21.00	15.6	40.0	19.0	QP	100.0	0.00	VERTICAL
103.720000	22.70	17.1	43.5	20.8	QP	100.0	0.00	VERTICAL
280.260000	24.00	18.2	46.0	22.0	QP	100.0	0.00	VERTICAL
385.020000	33.30	21.1	46.0	12.7	QP	100.0	0.00	VERTICAL
850.620000	34.70	28.6	46.0	11.3	QP	100.0	0.00	VERTICAL

The worst Spurious Emission Data BDR Mode Below 1GHz Channel High:

EUT:	Bluetooth Sunglasses
M/N:	K1
Operating Condition:	TX Mode
Test Site:	3m CHAMBER
Operator:	Chen
Test Specification:	DC 3.7V from battery
Comment:	Polarization: Horizontal

SWEEP TABLE: "test (30M-1G)"

Short Description:			Field Strength		
Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
30.0 MHz	1.0 GHz	MaxPeak	Coupled	100 kHz	VULB9163 NEW



MEASUREMENT RESULT: "AR012E01_red"

2/24/2014 18:32

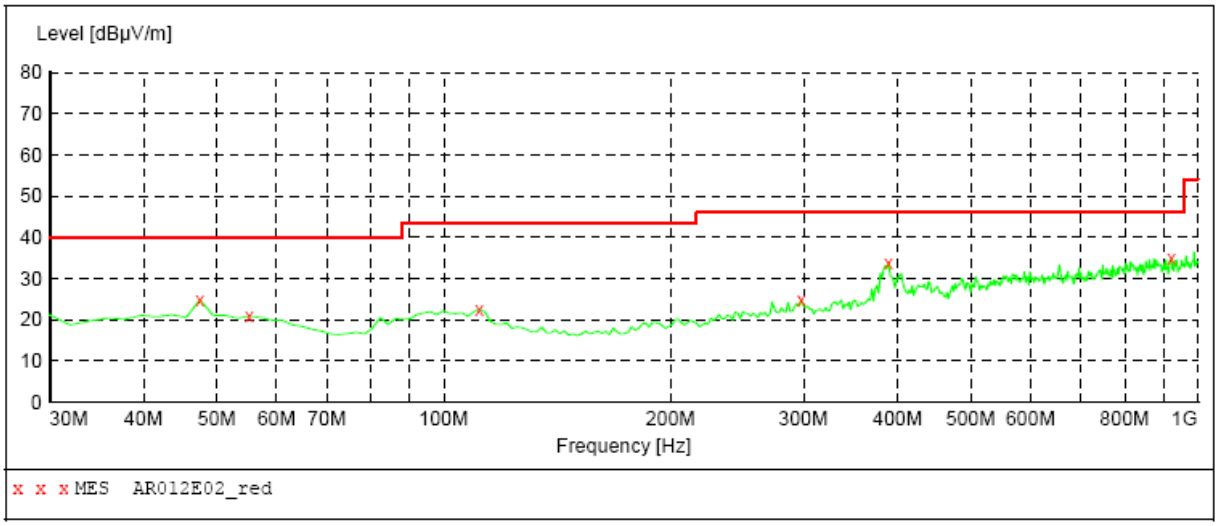
Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
30.000000	32.90	14.3	40.0	7.1	QP	100.0	0.00	HORIZONTAL
57.160000	20.80	15.1	40.0	19.2	QP	100.0	0.00	HORIZONTAL
103.720000	22.60	17.1	43.5	20.9	QP	100.0	0.00	HORIZONTAL
284.140000	27.40	18.3	46.0	18.6	QP	100.0	0.00	HORIZONTAL
394.720000	37.50	21.3	46.0	8.5	QP	300.0	0.00	HORIZONTAL
934.040000	34.50	29.4	46.0	11.5	QP	100.0	0.00	HORIZONTAL

The worst Spurious Emission Data BDR Mode Below 1GHz Channel High:

EUT:	Bluetooth Sunglasses
M/N:	K1
Operating Condition:	TX Mode
Test Site:	3m CHAMBER
Operator:	Chen
Test Specification:	DC 3.7V from battery
Comment:	Polarization: Vertical

SWEEP TABLE: "test (30M-1G)"

Short Description:			Field Strength		
Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
30.0 MHz	1.0 GHz	MaxPeak	Coupled	100 kHz	VULB9163 NEW



MEASUREMENT RESULT: "AR012E02_red"

2/24/2014 18:33

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
47.460000	24.90	15.8	40.0	15.1	QP	100.0	0.00	VERTICAL
55.220000	20.90	15.6	40.0	19.1	QP	100.0	0.00	VERTICAL
111.480000	22.60	16.2	43.5	20.9	QP	100.0	0.00	VERTICAL
297.720000	24.80	18.7	46.0	21.2	QP	100.0	0.00	VERTICAL
388.900000	33.90	21.2	46.0	12.1	QP	100.0	0.00	VERTICAL
922.400000	35.00	29.4	46.0	11.0	QP	100.0	0.00	VERTICAL

The worst Spurious Emission Data BDR Mode Above 1GHz

Channel Low

Channel Low（2402MHz）								
Maximum Frequency (MHz)	Polarity and Level					Limit (dBμV/m)	Margin (dBμV/m)	Mark (P/Q/A)
	Polarity	Height (m)	Reading dBμV	Transd	Result dBμV/m			
2402	H	1	83.39	-7.15	76.24	N/A	N/A	P
			77.31	-7.15	70.16	N/A	N/A	A
2402	V	1	84.86	-7.15	77.71	N/A	N/A	P
			78.65	-7.15	71.5	N/A	N/A	A
4804	H	1	40.65	1.07	41.72	74	-32.28	P
			31.33	1.07	32.4	54	-21.6	A
4804	V	1	42.94	1.07	44.01	74	-29.99	P
			32.05	1.07	33.12	54	-20.88	A
7206	H	1	40.32	7.38	47.7	74	-26.3	P
			30.45	7.38	37.83	54	-16.17	A
7206	V	1	43.45	7.38	50.83	74	-23.17	P
			31.83	7.38	39.21	54	-14.79	A
9611.22	H	1	41.61	10.29	51.9	74	-22.1	P
			30.92	10.29	41.21	54	-12.79	A
9611.22	V	1	42.64	7.38	50.02	74	-23.98	P
			31.25	7.38	38.63	54	-15.37	A
12023.31	H	1	42.05	14.01	56.06	74	-17.94	P
			31.64	14.01	45.65	54	-8.35	A
12023.33	V	1	42.92	14.01	56.93	74	-17.07	P
			31.49	14.01	45.5	54	-8.5	A
25220.37	----	----	----	----	----	----	----	----

Remark: 1. Transd.=Antenna Factor+Cable Loss-Pre-amplifier
Margin = Level-Limit
Mark: P means Peak Value, Q means Quasi Peak Value, A means Average Value
2. Data of measurement within this frequency range shown " -" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
3. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz.
4. The test limit distance is 3m limit

Channel Mid

Channel Low（2441MHz）								
Maximum Frequency (MHz)	Polarity and Level					Limit (dBμV/m)	Margin (dBμV/m)	Mark (P/Q/A)
	Polarity	Height (m)	Reading dBμV	Transd	Result dBμV/m			
2441	H	1	82.65	-6.37	76.28	N/A	N/A	P
			77.45	-6.37	71.08	N/A	N/A	A
2441	V	1	84.86	-6.37	78.49	N/A	N/A	P
			78.5	-6.37	72.13	N/A	N/A	A
4882	H	1	38.46	1.07	39.53	74	-34.47	P
			30.45	1.07	31.52	54	-22.48	A
4882	V	1	38.32	1.07	39.39	74	-34.61	P
			30.39	1.07	31.46	54	-22.54	A
7323	H	1	39.86	7.49	47.35	74	-26.65	P
			30.95	7.49	38.44	54	-15.56	A
7323	V	1	40.84	7.49	48.33	74	-25.67	P
			30.94	7.49	38.43	54	-15.57	A
9764	H	1	41.46	10.47	51.93	74	-22.07	P
			30.75	10.47	41.22	54	-12.78	A
9764	V	1	42.8	10.47	53.27	74	-20.73	P
			31.19	10.47	41.66	54	-12.34	A
12168.22	H	1	43.459	14.1	57.559	74	-16.441	P
			30.28	14.1	44.38	54	-9.62	A
12168.22	V	1	43.42	14.1	57.52	74	-16.48	P
			30.7	14.1	44.8	54	-9.2	A
25380.37	----	----	----	----	----	----	----	----

Remark: 1. Transd.=Antenna Factor+Cable Loss-Pre-amplifier

Margin = Level-Limit

Mark: P means Peak Value, Q means Quasi Peak Value, A means Average Value

2. Data of measurement within this frequency range shown " -" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

3. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz.

4. The test limit distance is 3m limit

Channel High

Channel Low（2480MHz）								
Maximum Frequency (MHz)	Polarity and Level					Limit (dBμV/m)	Margin (dBμV/m)	Mark (P/Q/A)
	Polarity	Height (m)	Reading dBμV	Transd	Result dBμV/m			
2480	H	1	81.85	-6.05	75.8	N/A	N/A	P
			77.42	-6.05	71.37	N/A	N/A	A
2480	V	1	83.41	-6.05	77.36	N/A	N/A	P
			77.32	-6.05	71.27	N/A	N/A	A
4960	H	1	49.38	1.07	50.45	74	-23.55	P
			31.02	1.07	32.09	54	-21.91	A
4960	V	1	40.44	1.07	41.51	74	-32.49	P
			30.66	1.07	31.73	54	-22.27	A
7440	H	1	41.28	7.61	48.89	74	-25.11	P
			30.32	7.61	37.93	54	-16.07	A
7440	V	1	42.45	7.61	50.06	74	-23.94	P
			31.08	7.61	38.69	54	-15.31	A
9920	H	1	40.42	10.65	51.07	74	-22.93	P
			31.69	10.65	42.34	54	-11.66	A
9920	V	1	43.31	10.65	53.96	74	-20.04	P
			31.42	10.65	42.07	54	-11.93	A
12361.67	H	1	41.44	14.19	55.63	74	-18.37	P
			32.61	14.19	46.8	54	-7.2	A
12361.67	V	1	42.59	14.19	56.78	74	-17.22	P
			32.35	14.19	46.54	54	-7.46	A
25380.37	----	----	----	----	----	----	----	----

Remark: 1. Transd.=Antenna Factor+Cable Loss-Pre-amplifier

Margin = Level-Limit

Mark: P means Peak Value, Q means Quasi Peak Value, A means Average Value

2. Data of measurement within this frequency range shown " -" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

3. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz.

4. The test limit distance is 3m limit

The worst Spurious Emission Data BDR Mode Below 30 MHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Emission Levels (dBuV/m)	Limit (dBμV/m)	Margin (dB)	Detector Mode
0.422	27.43	8.21	-1.01	34.63	67	-32.37	QP
17.37	27.52	8.22	-1.21	34.53	49.5	-14.97	QP
22.33	28.36	8.13	-1.05	35.44	49.5	-14.06	QP
24.52	28.48	7.42	-1.69	34.21	49.5	-15.29	QP

Note:

1. The pre-test have done for the EUT in three axes and found the worst emission at position shown in test setup photos. The worst case data is recorded in the report.

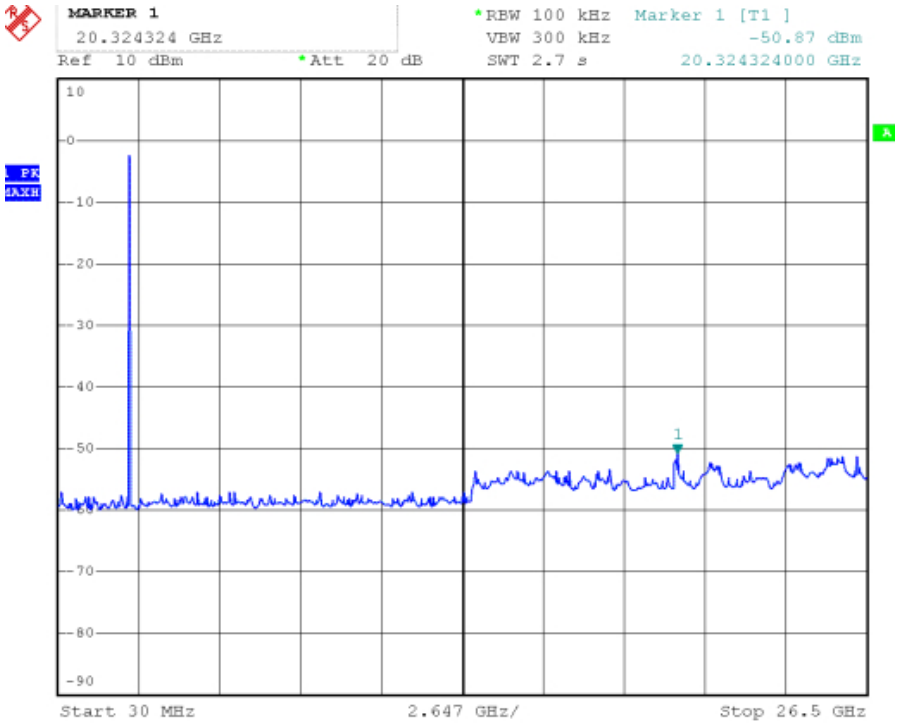
2. Emission level (dBuV/m) =Raw Value (dBuV) + Correction Factor (dB/m)

3. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)

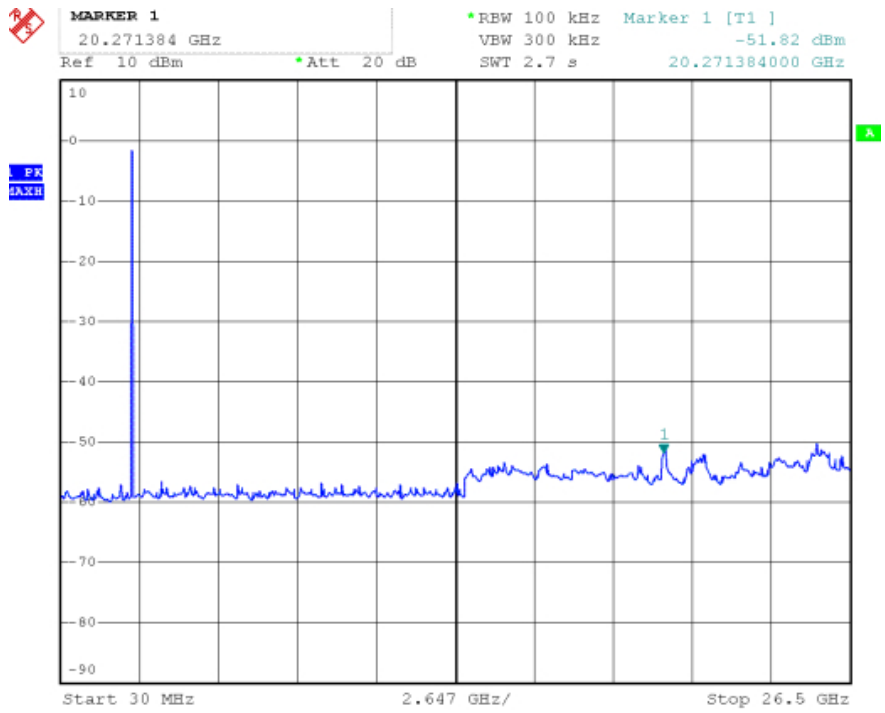
4. The other emission levels were very low against the limit.

5. Margin value = Emission level.- Limit value

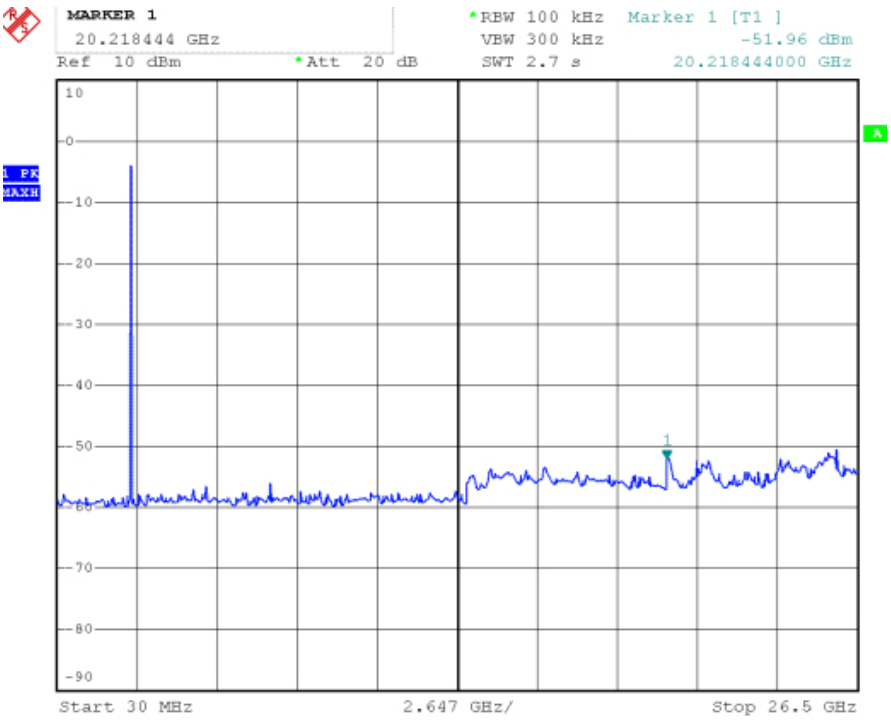
Conducted Spurious Emission
BDR 1M
Channel Low



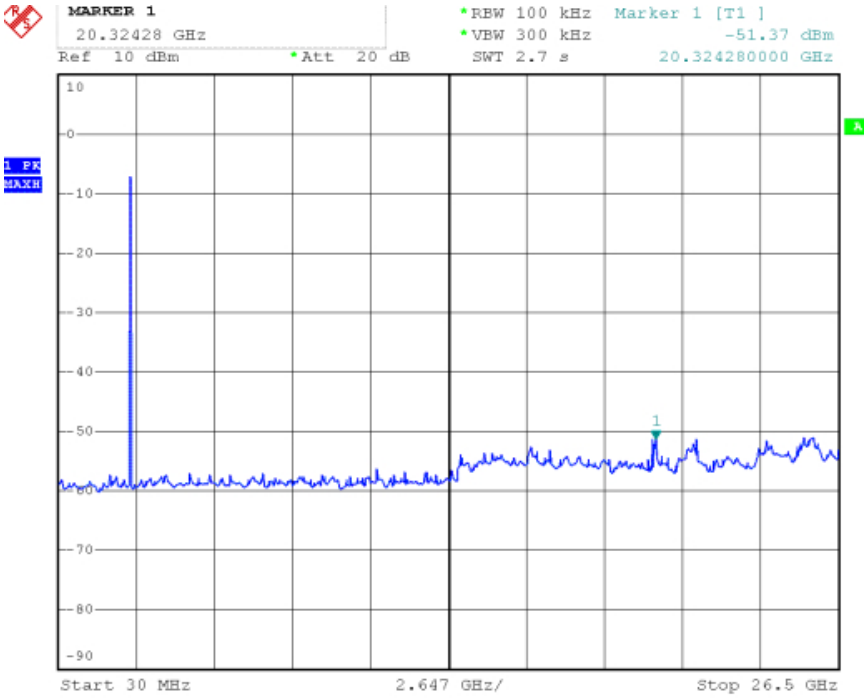
Channel Mid



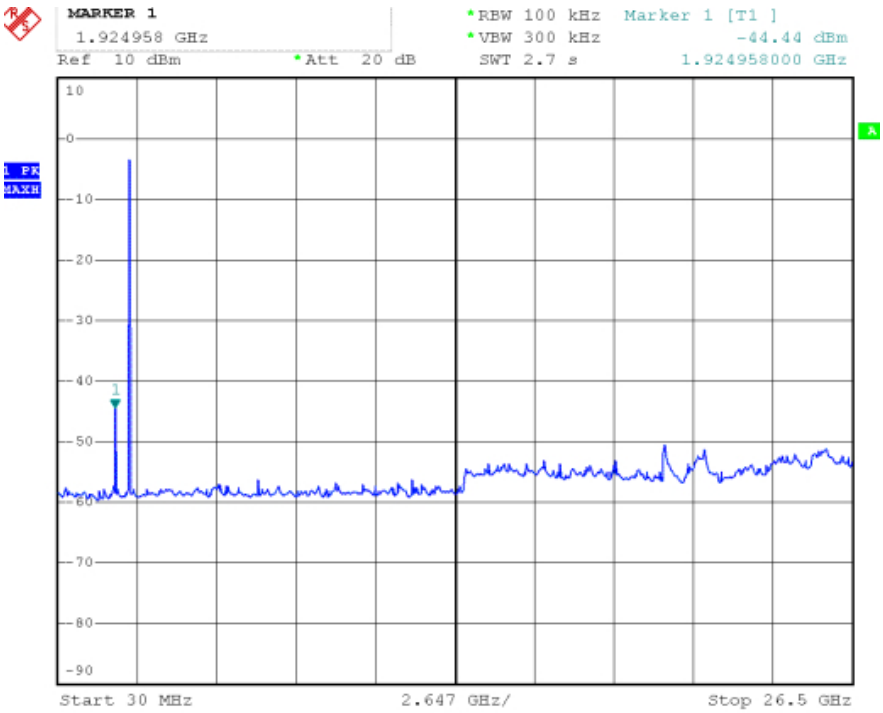
Channel High



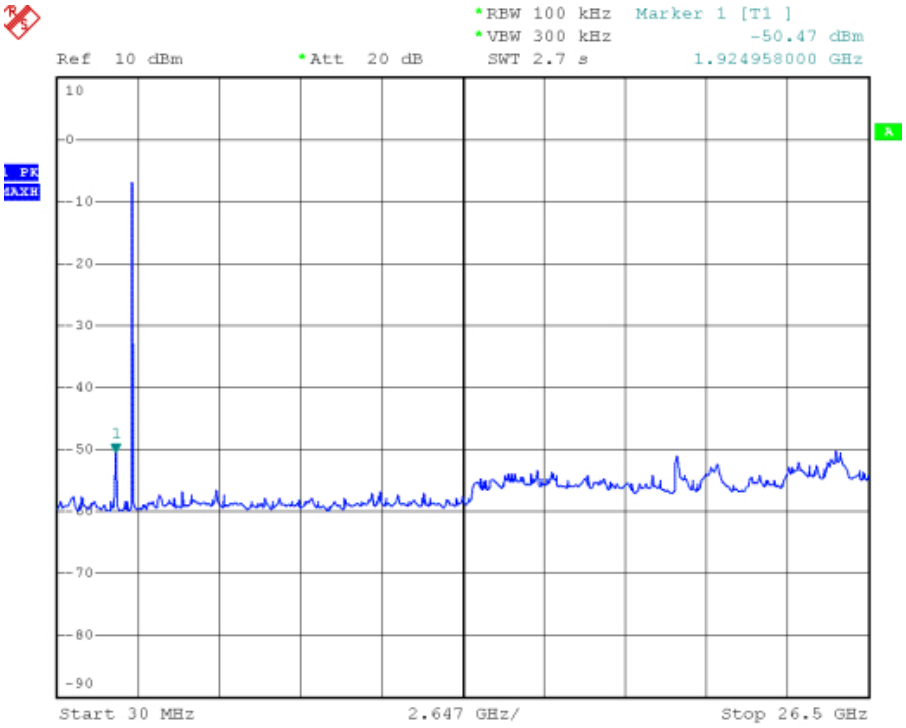
BDR 2M
Channel Low



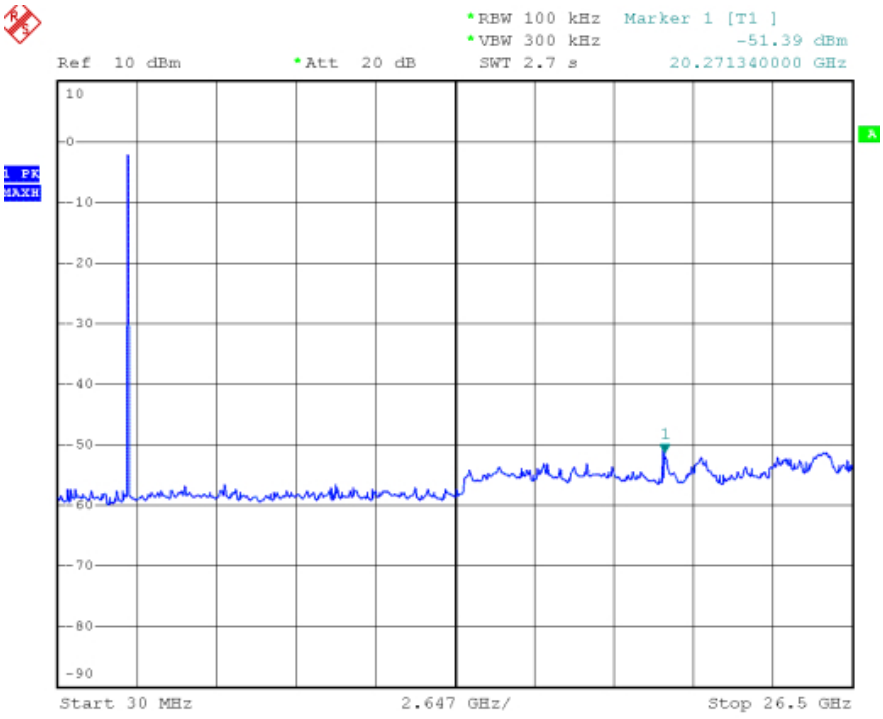
Channel Middle



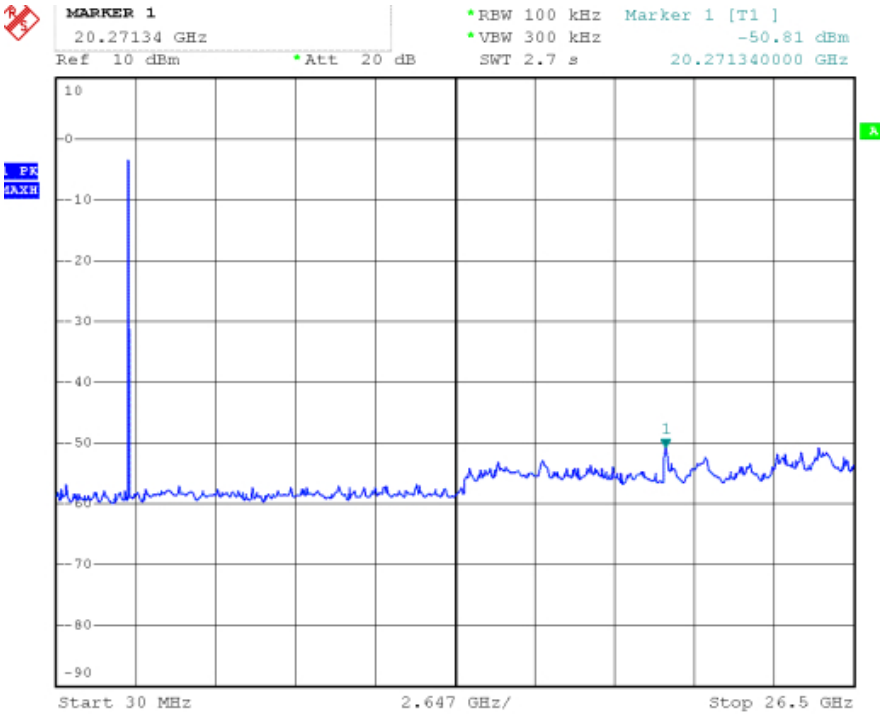
Channel High



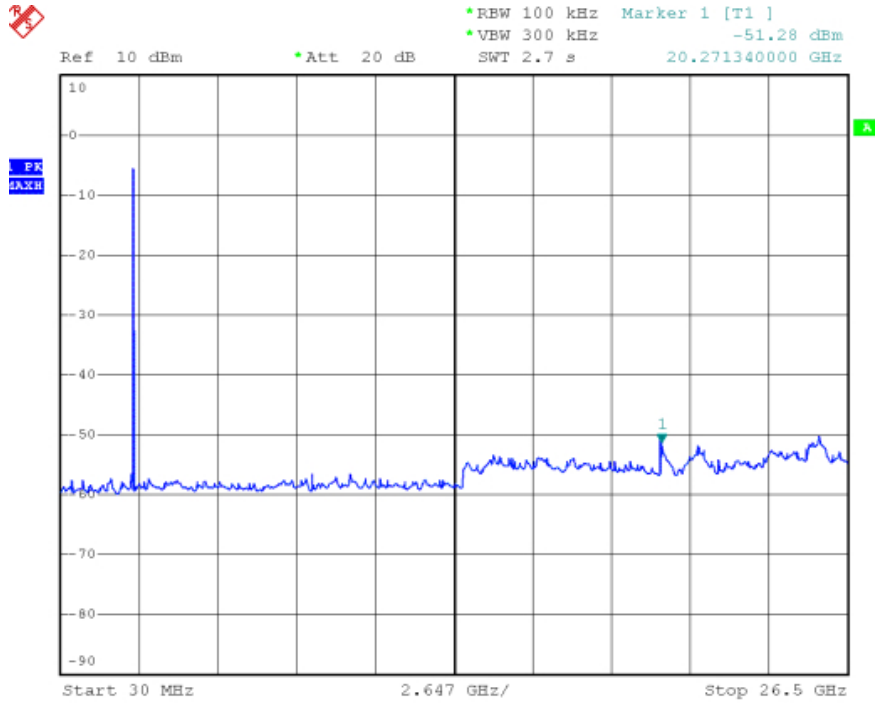
BDR 3M
Channel Low



Channel Middle



Channel High



12. ANTENNA REQUIREMENT

12.1 Standard Applicable

Section 15.203:

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

Section 15.247(b)/(c):

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

If the intentional radiator is used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi provided the maximum peak output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

12.2 Antenna Connected Construction

The antenna is designed with permanent attachment and no consideration of replacement. The antenna used in this product is complied with Standard. The maximum Gain of the antenna lower than 6.0dBi and have the definite antenna Specification.