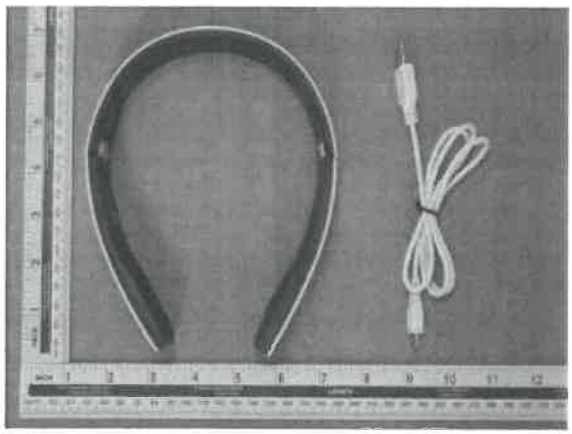
Prüfbericht-Nr.: *Test report No.:*	**17056141 001**	**Auftrags-Nr.:** *Order No.:*	164052519	Seite 1 von 31 *Page 1 of 31*
Kunden-Referenz-Nr.: *Client reference No.:*	636964	**Auftragsdatum:** *Order date.:*	21.12.2015	
Auftraggeber: *Client:*	**Saide Tekstil San ve Tic A.S.** Saide Is Merkezi Yenibosna Merkez Mah Yalcin Kores Cad Arifaga Sok No:25 34197 Istanbul Turkey			
Prüfgegenstand: *Test item:*	Razor Headphones			
Bezeichnung / Typ-Nr.: *Identification / Type No.:*	6278701, 6278702, 8091101, 8091102			
Auftrags-Inhalt: *Order content:*	FCC approval			
Prüfgrundlage: *Test specification:*	CFR47 FCC Part 15: Subpart C Section 15.247 CFR47 FCC Part 15: Subpart C Section 15.207 CFR47 FCC Part 15: Subpart C Section 15.209 FCC KDB Publication 447498 v06 CFR47 FCC Part 15: Subpart B Section 15.107 CFR47 FCC Part 15: Subpart B Section 15.109			
Wareneingangsdatum: *Date of receipt:*	21.12.2015			
Prüfmuster-Nr.: *Test sample No.:*	1600028 1600029			
Prüfzeitraum: *Testing period:*	24.12.2015 - 07.01.2016			
Ort der Prüfung: *Place of testing:*	Accurate Technology Co., Ltd.			
Prüflaboratorium: *Testing laboratory:*	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: *Test result*:*	Pass			



geprüft von / *tested by:*			**kontrolliert von** / *reviewed by:*		
29.02.2016	Ryan Yang / Senior Project Engineer		29.02.2016	Sam Lin / Technical Certifier	
Datum *Date*	**Name/Stellung** *Name/Position*	**Unterschrift** *Signature*	**Datum** *Date*	**Name/Stellung** *Name/Position*	**Unterschrift** *Signature*

Sonstiges / *Other:*

FCC ID: 2AHIT-62787

Zustand des Prüfgegenstandes bei Anlieferung: Prüfmuster vollständig und unbeschädigt
Condition of the test item at delivery: *Test item complete and undamaged:*

* Legende:	1 = sehr gut	2 = gut	3 = befriedigend	4 = ausreichend	5 = mangelhalt
	P(ass) = entspricht o.g. Prüfgrundlage(n)		F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	N/A = nicht anwendbar	N/T = nicht getestet
Legend:	1 = very good	2 = good	3 = satisfactory	4 = sufficient	5 = poor
	P(ass) = passed a.m. test specifications(s)		F(ail) = failed a.m. test specifications(s)	N/A = not applicable	N/T = not tested

TÜV Rheinland (Shenzhen) Co., Ltd., East of F/1, F/2 - F/4, Building 1, Cybio Technology Building, No. 6 Langshan No. 2 Road, North Hi-tech Industry Park, Nanshan District, Shenzhen, P.R. China
http://www.tuv.com

Test Summary

5.1.1 ANTENNA REQUIREMENT
RESULT: Pass

5.1.2 MAXIMUM PEAK CONDUCTED OUTPUT POWER
RESULT: Pass

5.1.3 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 KHZ BANDWIDTH
RESULT: Pass

5.1.4 RADIATED SPURIOUS EMISSION
RESULT: Pass

5.1.5 20DB BANDWIDTH
RESULT: Pass

5.1.6 CARRIER FREQUENCY SEPARATION
RESULT: Pass

5.1.7 NUMBER OF HOPPING FREQUENCY
RESULT: Pass

5.1.8 TIME OF OCCUPANCY
RESULT: Pass

5.1.9 CONDUCTED EMISSION
RESULT: Pass

5.1.10 RADIATED EMISSION
RESULT: Pass

6.1.1 ELECTROMAGNETIC FIELDS
RESULT: Pass

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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 A: Test Results of Bluetooth 3.0 + HS of Conducted Testing

Appendix B: Test Results of Bluetooth 3.0 + HS of Radiated Testing

2 Test Sites

2.1 Test Facilities

Accurate Technology Co., Ltd.
F1, Bldg. A, Changyuan New Material Port Keyuan Rd., Science & Industry Park, Nanshan Shenzhen, 518057, P.R. China

FCC Registration No.: 752051

Test site Industry Canada No.: 5077A-2

The tests at the test sites 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

Accurate Technology Co., Ltd.

Radio Spectrum Test				
Equipment	**Manufacturer**	**Model No.**	**Serial No.**	**Cal. Until**
Spectrum Analyzer	R&S	ESPI3	100396/003	09.01.2017
Spectrum Analyzer	Agilent	E7405A	MY45115511	09.01.2017
Temp. & Humid. Chamber	Gongwen	HSD-500	0109	09.01.2017
Conducted Emission				
Equipment	**Manufacturer**	**Model No.**	**Serial No.**	**Cal. Until**
Test Receiver	R&S	ESCS30	100307	09.01.2017
L.I.S.N.	Schwarzbeck	NLSK8126	8126431	09.01.2017
Pulse Limiter	R&S	ESH3-Z2	100815	09.01.2017
50_ Coaxial Switch	Anritsu Corp	MP59B	6200283933	09.01.2017
Radiated Emission & Spurious Emission				
Equipment	**Manufacturer**	**Model No.**	**Serial No.**	**Cal. Until**
Spectrum Analyzer	R&S	FSV40	101495	01.01.2017
Test Receiver	R&S	ESCS30	100307	01.01.2017
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	01.01.2017
Loop Antenna	Schwarzbeck	FMZB1516	1516131	01.01.2017
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	01.01.2017
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	01.01.2017
RF Switching Unit+PreAMP	Compliance Direction	RSU-M2	38322	01.01.2017
Pre-Amplifier	R&S	CBLU11835 40-01	3791	01.01.2017
50 Coaxial Switch	Anritsu Corp	MP59B	6200506474	01.01.2017
RF Coaxial Cable	SUHNER	N-3m	No.8	01.01.2017
RF Coaxial Cable	RESENBERGER	N-3.5m	No.9	01.01.2017
RF Coaxial Cable	SUHNER	N-6m	No.10	01.01.2017
RF Coaxial Cable	RESENBERGER	N-12m	No.11	01.01.2017
50_ Coaxial Switch	Anritsu Corp	MP59B	6200283933	01.01.2017

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 as below table

Item		**Extended Uncertainty**
Conducted Emission	Disturbance Voltage (dBμV)	U=1.94dB, k=2, σ=95%
Radiated Emission (9kHz-30MHz)	Field strength (dBμV/m)	U=3.08dB, k=2, σ=95%
Radiated Emission (30-1000MHz)	Field strength (dBμV/m)	U=4.42dB, k=2, σ=95%
Radiated Emission (above 1000MHz)	Field strength (dBμV/m)	U=4.06dB, k=2, σ=95%
Radio Spectrum		± 0.60 dB
Ambient Temperature		25 ℃
Relative Humidity		56 %
Atmospheric Pressure		101 kPa

2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix A & B 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 Accurate Technology Co., Ltd. Test facility located at F1, Bldg. A, Changyuan New Material Port Keyuan Rd., Science & Industry Park, Nanshan Shenzhen, 518057, 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 Razor Headphones. It supports Bluetooth 3.0+HS wireless technology.

According to the declaration of the applicant, the electrical circuit design, PCB layout and components used are identical for all models, only the model No. and colour of enclosure are different.

Model Difference:

Model No.	Colour
6278701	White
6278702	Blue
8091101	Pink
8091102	Grey

For details refer to the User Manual, Technical Description and Circuit Diagram.

3.2 Ratings and System Details

Table 2: Technical Specification of EUT

Technical Specification	Value
Kind of Equipment	Razor Headphones
Type Designation	6278701, 6278702, 8091101, 8091102
FCC ID	2AHIT-62787
Operating Frequency	2402-2480 MHz
Operating Temperature Range	-40 °C ~ +85 °C
Operating Voltage	DC 3.7V, 250mAh via Internal rechargeable lithium battery
Testing Voltage	DC 3.7V, 250mAh via Internal rechargeable lithium battery DC 5.0V via USB port for charging
Type of Modulation	GFSK, π/4DQPSK, 8DPSK
Channel Number	79 channels
Channel Separation	1MHz
Wireless Technology	Bluetooth 3.0+ HS
Antenna Type	PCB Antenna
Antenna Gain	3.00 dBi

Table 3: RF Channel and Frequency of Bluetooth

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
00	**2402.00**	20	2422.00	40	2442.00	60	2462.00
01	2403.00	21	2423.00	41	2443.00	61	2463.00
02	2404.00	22	2424.00	42	2444.00	62	2464.00
03	2405.00	23	2425.00	43	2445.00	63	2465.00
04	2406.00	24	2426.00	44	2446.00	64	2466.00
05	2407.00	25	2427.00	45	2447.00	65	2467.00
06	2408.00	26	2428.00	46	2448.00	66	2468.00
07	2409.00	27	2429.00	47	2449.00	67	2469.00
08	2410.00	28	2430.00	48	2450.00	68	2470.00
09	2411.00	29	2431.00	49	2451.00	69	2471.00
10	2412.00	30	2432.00	50	2452.00	70	2472.00
11	2413.00	31	2433.00	51	2453.00	71	2473.00
12	2414.00	32	2434.00	52	2454.00	72	2474.00
13	2415.00	33	2435.00	53	2455.00	73	2475.00
14	2416.00	34	2436.00	54	2456.00	74	2476.00
15	2417.00	35	2437.00	55	2457.00	75	2477.00
16	2418.00	36	2438.00	56	2458.00	76	2478.00
17	2419.00	37	2439.00	57	2459.00	77	2479.00
18	2420.00	38	2440.00	58	2460.00	**78**	**2480.00**
19	2421.00	**39**	**2441.00**	59	2461.00	/	/

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 + HS 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. On, Bluetooth transmitting mode (BDR & EDR mode)
    1. Transmitting
        a. Low Channel
        b. Middle Channel
        c. High Channel
    2. Receiving
B. On, Transmitting on Hopping channel
C. On, Bluetooth connecting mode
D. On, Charging mode via USB port
E. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- Application Form
- Bill of Material
- Block Diagram
- Circuit Diagram
- FCC/IC Label and Location
- Operation Description
- Photo Document
- User Manual

4 Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

Radio Spectrum: The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation 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 C63.10: 2013 and ANSI C63.4: 2014

According to clause 3.1, all tests were performed on model 6278701 in this report.

4.3 Special Accessories and Auxiliary Equipment

Table 5: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	S/N	Rating
iPhone 6	Apple	MG4J2 CH/A	F17NTK2QG5MV	N/A
Notebook PC	Lenovo	ThinkPad X240	N/A	N/A
Printer	HP	HP laserjet 1015	CNFG030424	N/A

4.4 Countermeasures to Achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF).

No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

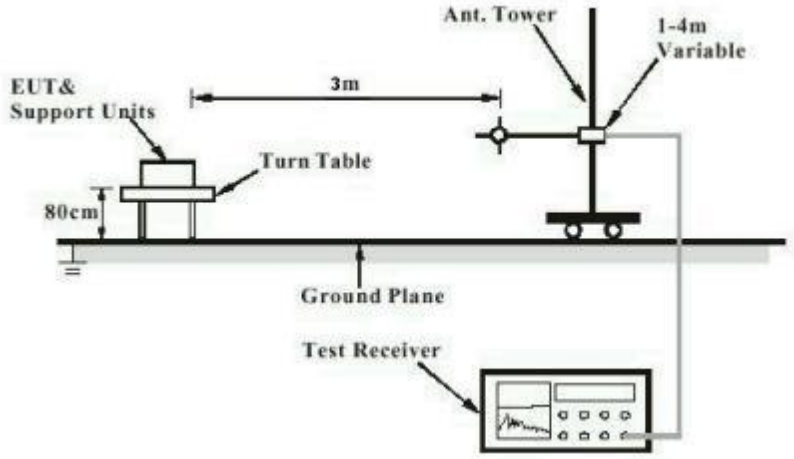


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

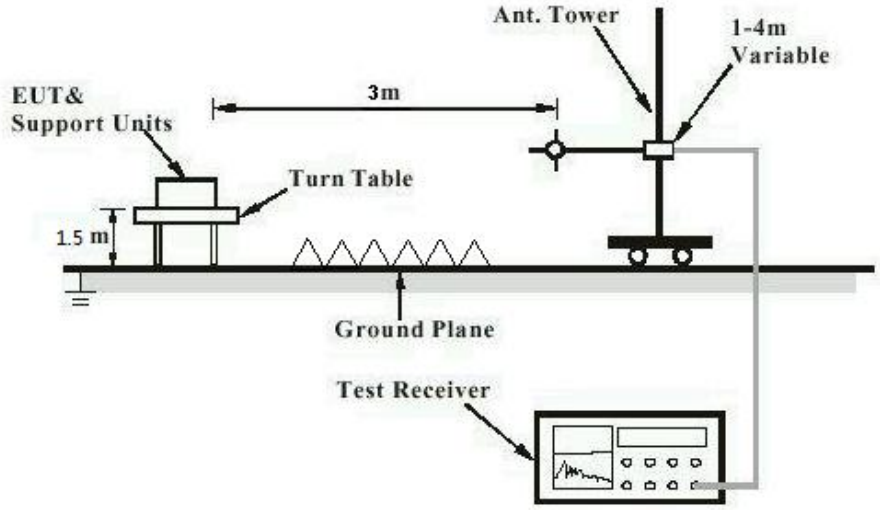


Diagram of Measurement Configuration for Mains Conduction Measurement

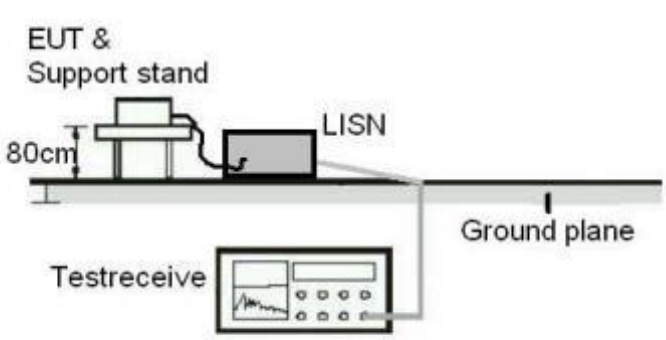
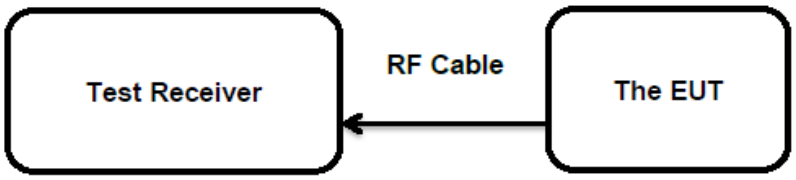


Diagram of Measurement Configuration for Conducted Transmitter Measurement



5 Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT: **Pass**

Test Specification

Test standard : FCC Part 15.247(b)(4) and Part 15.203

According to the manufacturer declared, the EUT has an internal antenna, the directional gain of antenna is 3.00 dBi, 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.

Therefore the EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

5.1.2 Maximum Peak Conducted Output Power

RESULT: **Pass**

Test Specification

Test standard	:	FCC Part 15.247(b)(1)
Basic standard	:	ANSI C63.10: 2013
Limits	:	< 0.125 Watts
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	30.12.2015
Input voltage	:	DC 5.0V via USB port for charging
Operation mode	:	A.1
Test channel	:	Low / Middle / High
Ambient temperature	:	25 ℃
Relative humidity	:	56 %
Atmospheric pressure	:	101 kPa

Table 6: Test Result of Maximum Peak Conducted Output Power

Test Mode	Channel Frequency (MHz)	Measured Peak Output Power		Limit (W)
		(dBm)	(W)	
BDR	2402	-7.78	0.00017	< 0.125
	2441	-9.10	0.00012	
	2480	-9.09	0.00012	
EDR	2402	-9.19	0.00009	< 0.125
	2441	-10.36	0.00009	
	2480	-10.39	0.00012	
Maximum Measured Value		-7.78	0.00017	/

Note: The cable loss is taken into account in results.

For the measurement records, refer to the appendix A.

5.1.3 Conducted Spurious Emissions Measured in 100 kHz Bandwidth

RESULT: **Pass**

Test Specification

Test standard	:	FCC Part 15.247(d)
Basic standard	:	ANSI C63.10: 2013
Limits	:	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	:	Shielded Room

Test Setup

Date of testing	:	30.12.2015
Input voltage	:	DC 5.0V via USB port for charging
Operation mode	:	A.1
Test channel	:	Low / Middle / High
Ambient temperature	:	25 ℃
Relative humidity	:	56 %
Atmospheric pressure	:	101 kPa

Test results of 100kHz Bandwidth of Frequency Band Edge by Conducted method refer to following test plot, and compliance is achieved as well.

For the measurement records, refer to the appendix A.

5.1.4 Radiated Spurious Emission

RESULT: **Pass**

Test Specification

Test standard	:	FCC Part 15.247(d) & FCC Part 15.205
Basic standard	:	ANSI C63.10: 2013
Limits	:	Refer to 15.209(a) of FCC part 15.247(d)
Kind of test site	:	3m Semi-anechoic Chamber & 3m Full-anechoic Chamber

Test Setup

Date of testing	:	30.12.2015
Input voltage	:	DC 3.7V, 250mAh via Internal rechargeable lithium battery
Operation mode	:	A.1
Test channel	:	Low / Middle / High
Ambient temperature	:	25 ℃
Relative humidity	:	56 %
Atmospheric pressure	:	101 kPa

Remark:
During the pretest the EUT was rotated through three 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 set-up photos.

Pre-test the EUT in continuous transmitting mode at the low (2402 MHz), middle (2441 MHz) and high (2480 MHz) channel with different data packet. Compliance test in continuous transmitting mode with BDR mode (DH5) as the worst case was found.

Testing was carried out within frequency range 9kHz to the tenth harmonics.

For the measurement records, refer to the appendix A.

5.1.5 20dB Bandwidth

RESULT: **Pass**

Test Specification

Test standard	:	FCC Part 15.247(a)(1)
Basic standard	:	ANSI C63.10: 2013
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	30.12.2015
Input voltage	:	DC 5.0V via USB port for charging
Operation mode	:	A.1
Test channel	:	Low / Middle / High
Ambient temperature	:	25 ℃
Relative humidity	:	56 %
Atmospheric pressure	:	101 kPa

Table 7: Test Result of 20dB Bandwidth

Test Mode	Channel Frequency (MHz)	20dB Bandwidth (kHz)	2/3 of 20dB Bandwidth (kHz)	Limit (MHz)
BDR	2402	868.30	578.867	/
	2441	872.60	581.733	
	2480	872.60	581.733	
EDR	2402	1198.30	798.867	/
	2441	1185.30	790.200	
	2480	1202.60	801.733	
Maximum Measured Value		1202.60	801.733	/

For the measurement records, refer to the appendix A.

5.1.6 Carrier Frequency Separation

RESULT: **Pass**

Test Specification

Test standard	:	FCC Part 15.247(a)(1)
Basic standard	:	ANSI C63.10: 2013
Limits	:	≥ 25kHz or 2/3 of 20dB bandwidth, whichever is greater
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	30.12.2015
Input voltage	:	DC 5.0V via USB port for charging
Operation mode	:	B
Test channel	:	Low / Middle / High
Ambient temperature	:	25 ℃
Relative humidity	:	56 %
Atmospheric pressure	:	101 kPa

Table 8: Test Result of Carrier Frequency Separation

Channel	Channel Frequency (MHz)	Measured Channel Separation (KHz)	Limit (kHz)	Result
Low Channel	2402	1002.9	≥ 25kHz or 2/3 of 20dB bandwidth	Pass
Adjacency Channel	2403			
Middle Channel	2441	1002.9		Pass
Adjacency Channel	2442			
High Channel	2480	1002.9		Pass
Adjacency Channel	2479			

Note:
The limit is maximum 2/3 of the 20 dB bandwidth: 801.733 KHz.

For the measurement records, refer to the appendix A.

5.1.7 Number of Hopping Frequency

RESULT: **Pass**

Test Specification

Test standard	:	FCC part 15.247(a)(1)(iii)
Basic standard	:	ANSI C63.10: 2013
Limits	:	≥ 15 non-overlapping channels
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	30.12.2015
Input voltage	:	DC 5.0V via USB port for charging
Operation mode	:	B
Ambient temperature	:	25 ℃
Relative humidity	:	56 %
Atmospheric pressure	:	101 kPa

Table 9: Test Result of Number of Hopping Frequency

Frequency Range	Measured Quantity of Hopping Channel	Limit	Result
2402 to 2480 MHz	79	≥15	Pass

For the measurement records, refer to the appendix A.

5.1.8 Time of Occupancy

RESULT: **Pass**

Test Specification

Test standard	:	FCC part 15.247(a)(1)(iii)
Basic standard	:	ANSI C63.10: 2013
Limits	:	< 0.4s
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	30.12.2015
Input voltage	:	DC 5.0V via USB port for charging
Operation mode	:	A.1
Test channel	:	Low / Middle / High
Ambient temperature	:	25 ℃
Relative humidity	:	56 %
Atmospheric pressure	:	101 kPa

Table 10: Test Result of Time of Occupancy, BDR mode

Channel	Data Mode	Pulse width (ms)	Measured Dwell time(s)	Limit (s)	Result
Low Channel	1DH1	0.428	0.137	< 0.4s	Pass
	1DH3	1.681	0.269	< 0.4s	Pass
	1DH5	2.957	0.315	< 0.4s	Pass
Middle Channel	1DH1	0.420	0.134	< 0.4s	Pass
	1DH3	1.596	0.255	< 0.4s	Pass
	1DH5	2.957	0.315	< 0.4s	Pass
High Channel	1DH1	0.420	0.134	< 0.4s	Pass
	1DH3	1.681	0.269	< 0.4s	Pass
	1DH5	2.957	0.315	< 0.4s	Pass

Table 11: Test Result of Time of Occupancy, EDR mode

Channel	Data Mode	Pulse width (ms)	Measured Dwell time (s)	Limit (s)	Result
Low Channel	3DH1	0.428	0.137	< 0.4s	Pass
	3DH3	1.681	0.269	< 0.4s	Pass
	3DH5	2.957	0.315	< 0.4s	Pass
Middle Channel	3DH1	0.428	0.137	< 0.4s	Pass
	3DH3	1.696	0.271	< 0.4s	Pass
	3DH5	2.957	0.315	< 0.4s	Pass
High Channel	3DH1	0.428	0.137	< 0.4s	Pass
	3DH3	1.696	0.271	< 0.4s	Pass
	3DH5	2.957	0.315	< 0.4s	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

For the measurement records, refer to the appendix A.

5.1.9 Conducted Emission

RESULT: **Pass**

Test Specification

Test standard	:	FCC Part 15.207(a) & FCC Part 15.107(a)
Basic standard	:	ANSI C63.10: 2013 & ANSI C63.4: 2014
Frequency range	:	0.15 – 30MHz
Limits	:	FCC Part 15.207(a) & FCC Part 15.107(a)
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	07.01.2016
Input voltage	:	DC 5.0V via USB port for charging
Operation mode	:	C, D
Earthing	:	Not connected
Ambient temperature	:	25 ℃
Relative humidity	:	56 %
Atmospheric pressure	:	101 kPa

For the measurement records, refer to the appendix B.

5.1.10 Radiated Emission

RESULT: **Pass**

Test Specification

Test standard	:	FCC Part 15.109(a)
Basic standard	:	ANSI C63.4: 2014
Frequency range	:	30 - 6000MHz
Classification	:	Class B
Limits	:	FCC Part 15.109(a)
Kind of test site	:	3m Semi-anechoic Chamber & 3m Full-anechoic Chamber

Test Setup

Date of testing	:	05.01.2016
Input voltage	:	DC 5.0V via USB port for charging
Operation mode	:	D
Earthing	:	Not connected
Ambient temperature	:	23 ℃
Relative humidity	:	48 %
Atmospheric pressure	:	101 kPa

For the measurement records, refer to the appendix B.

6 Safety Human Exposure

6.1 Radio Frequency Exposure Compliance

6.1.1 Electromagnetic Fields

RESULT: **Pass**

Test Specification

Test standard : FCC KDB Publication 447498 v06

Measurement Record:

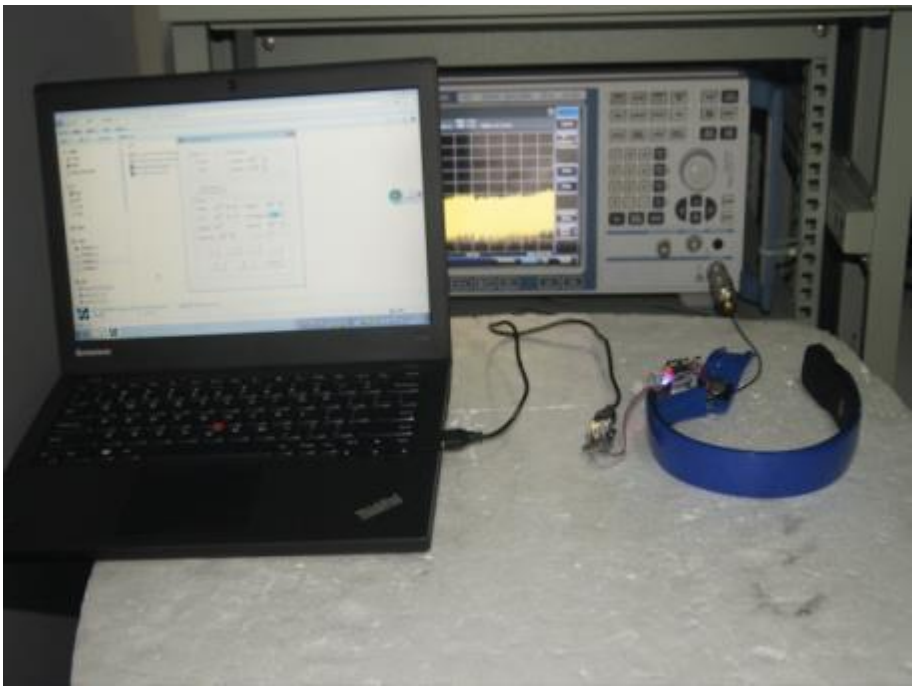
The minimum distance for the EUT is less than 5mm.

Since maximum peak output power of the transmitter is -7.78 dBm ≈ 0.17 mW <10 mW.

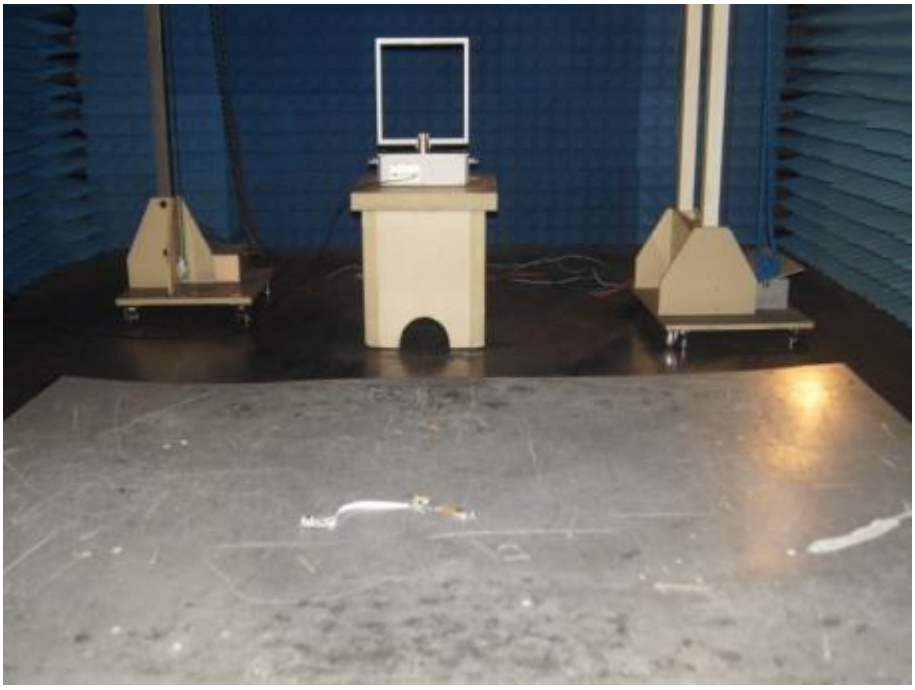
Hence the EUT is excluded from SAR evaluation according to FCC KDB Publication 447498 D01 General RF Exposure Guidance v06.

7 Photographs of the Test Set-Up

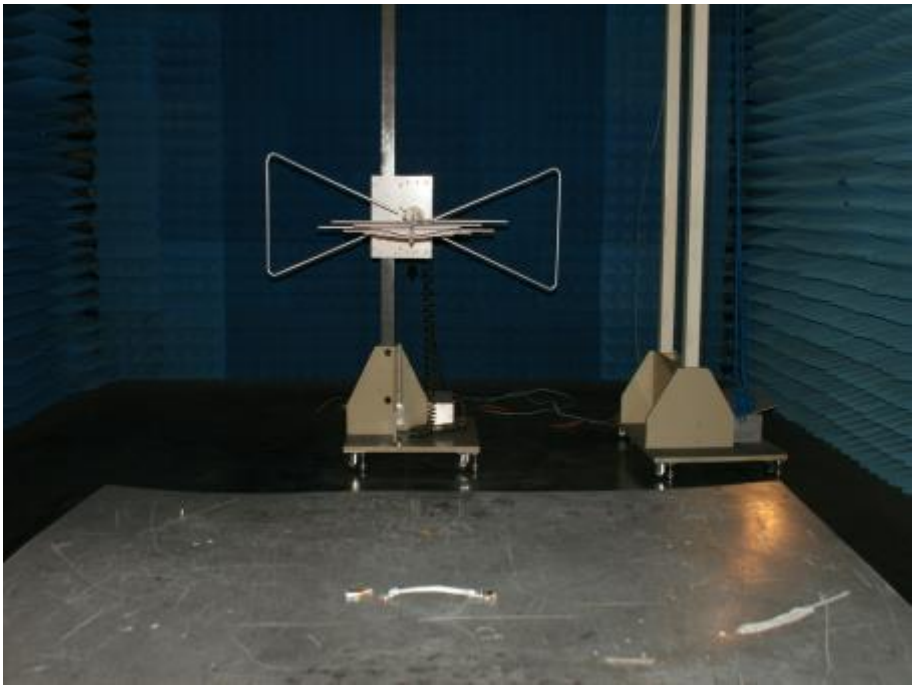
Photograph 1: Set-up for Conducted Testing



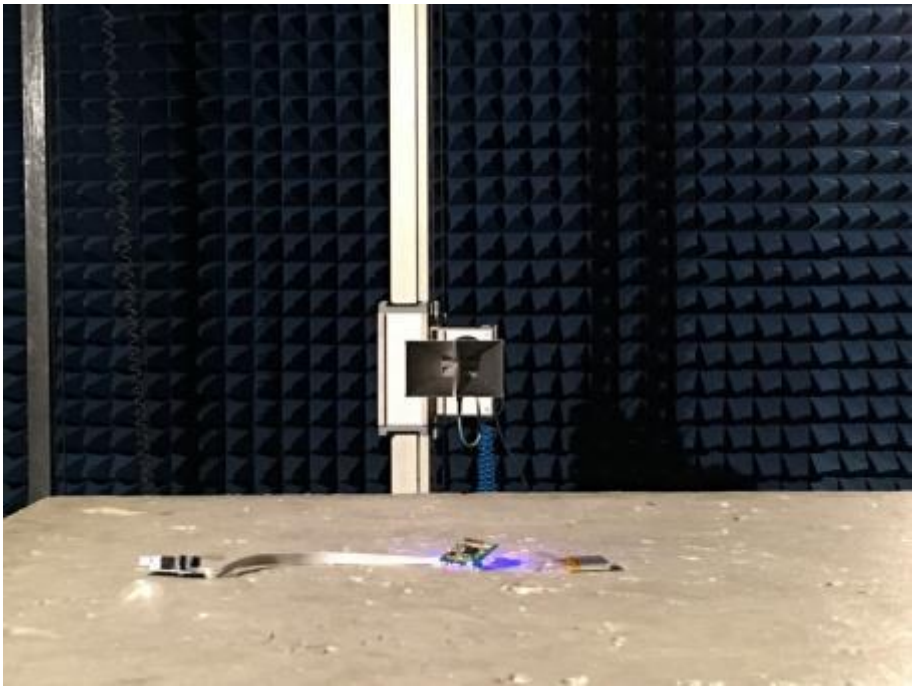
Photograph 2: Set-up for Radiated Spurious Emission (9kHz ~ 30MHz)



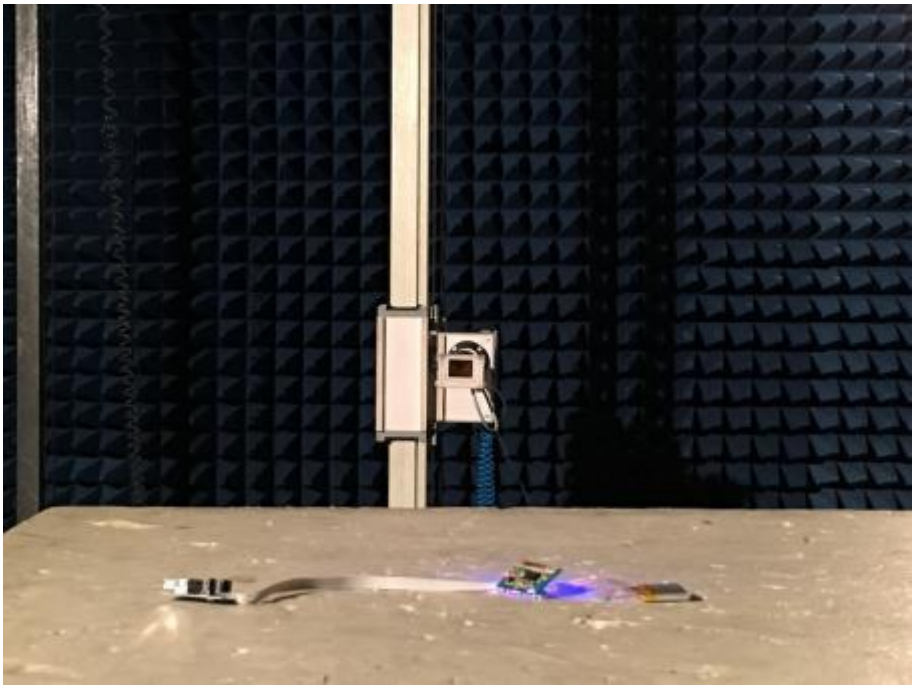
Photograph 3: Set-up for Radiated Spurious Emission (30MHz~1GHz)



Photograph 4: Set-up for Radiated Spurious Emission (1GHz ~ 18GHz)



Photograph 5: Set-up for Radiated Spurious Emission (18GHz ~ 26GHz)



Photograph 6: Set-up for Conducted Emission

Photograph 7: Set-up for Radiated Emission (30MHz ~ 1GHz)

Photograph 8: Set-up for Radiated Emission (1GHz ~ 6GHz)

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Appendix A

Test Results of Bluetooth 3.0+HS of Conducted Testing

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HOPPING MODE 13

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HOPPING MODE 14

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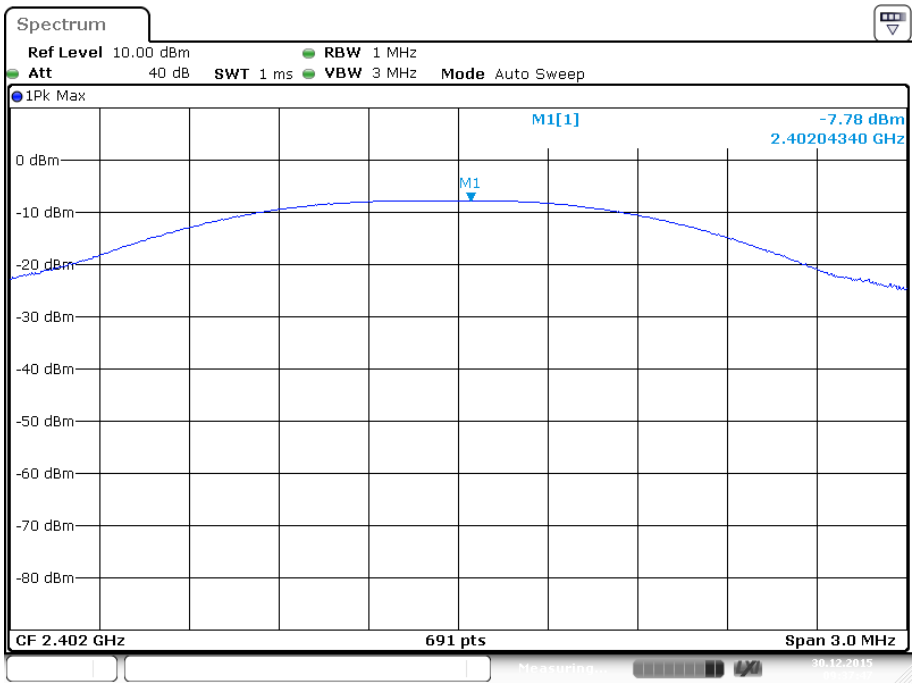
BDR MODE, DH3 18
BDR MODE, DH5 21
EDR MODE, 3DH1 24
EDR MODE, 3DH3 27
EDR MODE, 3DH5 30

Appendix A.1: Maximum Peak Conducted Output Power

BDR Mode, DH1



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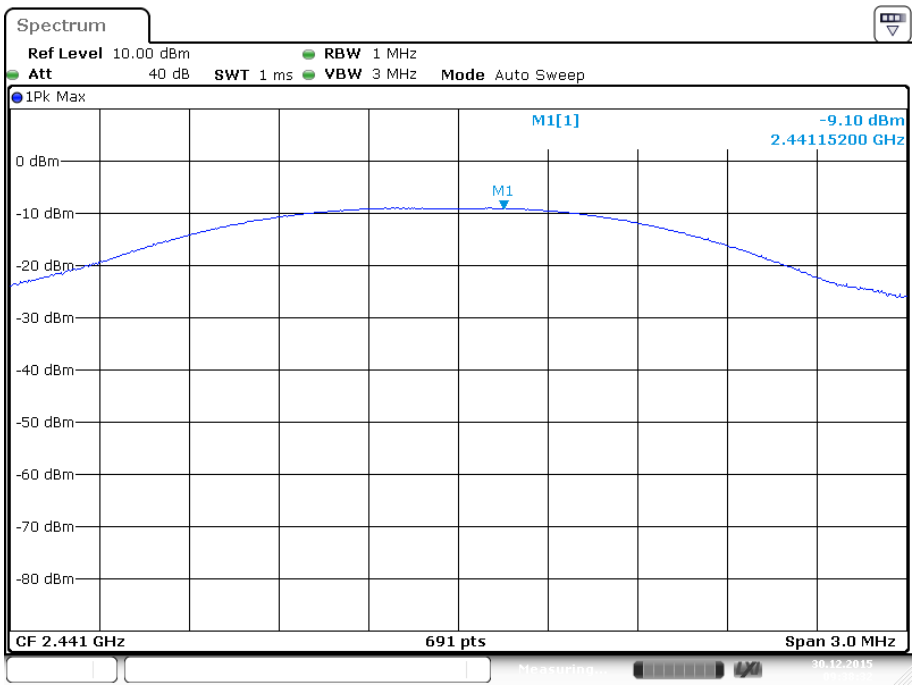

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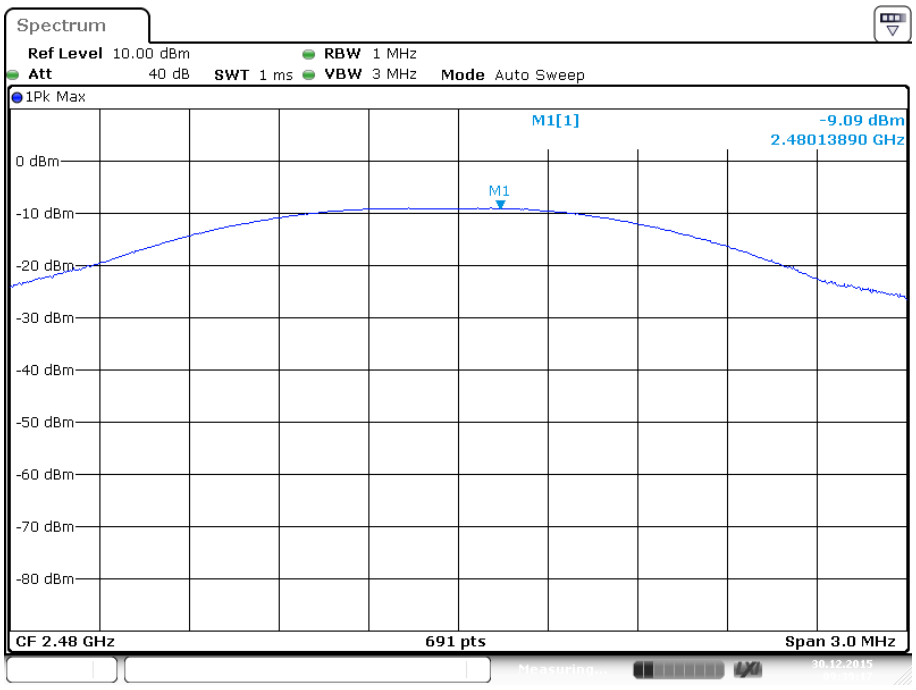
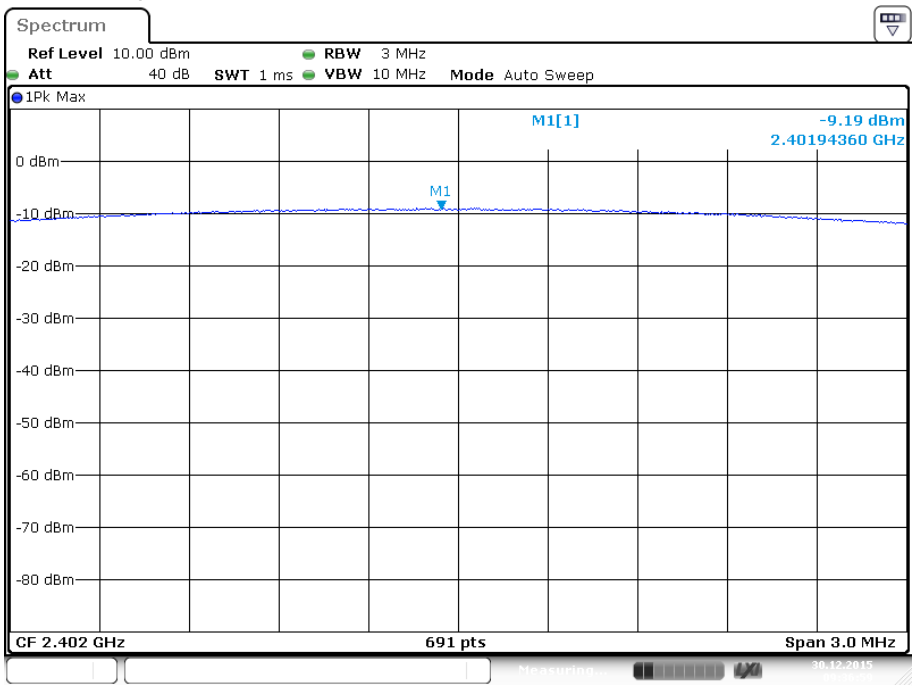
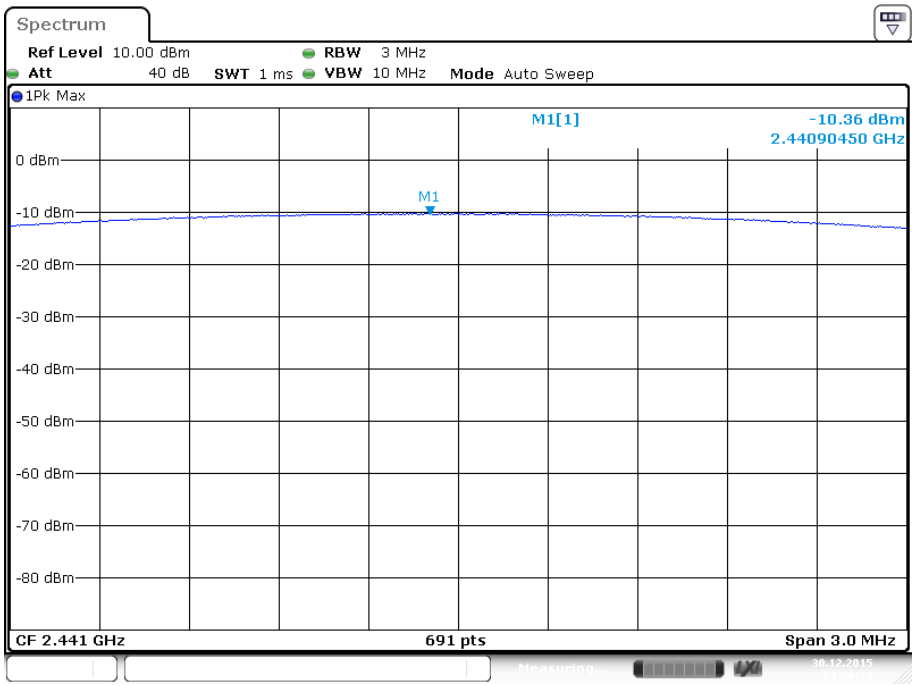


Date: 30.DEC.2015 09:39:17

EDR Mode, 3DH1



Date: 30.DEC.2015 09:36:59



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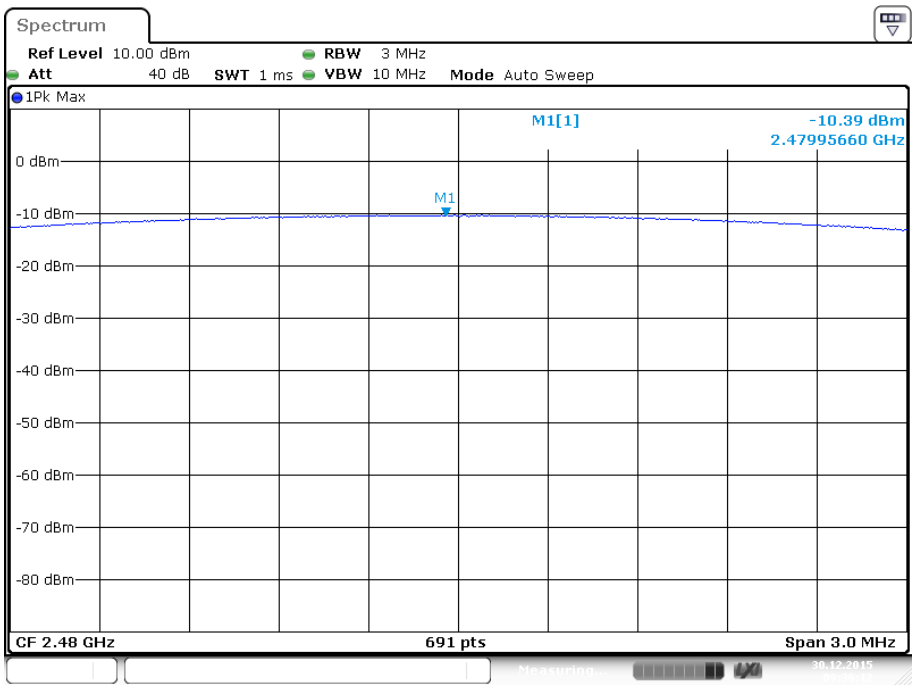
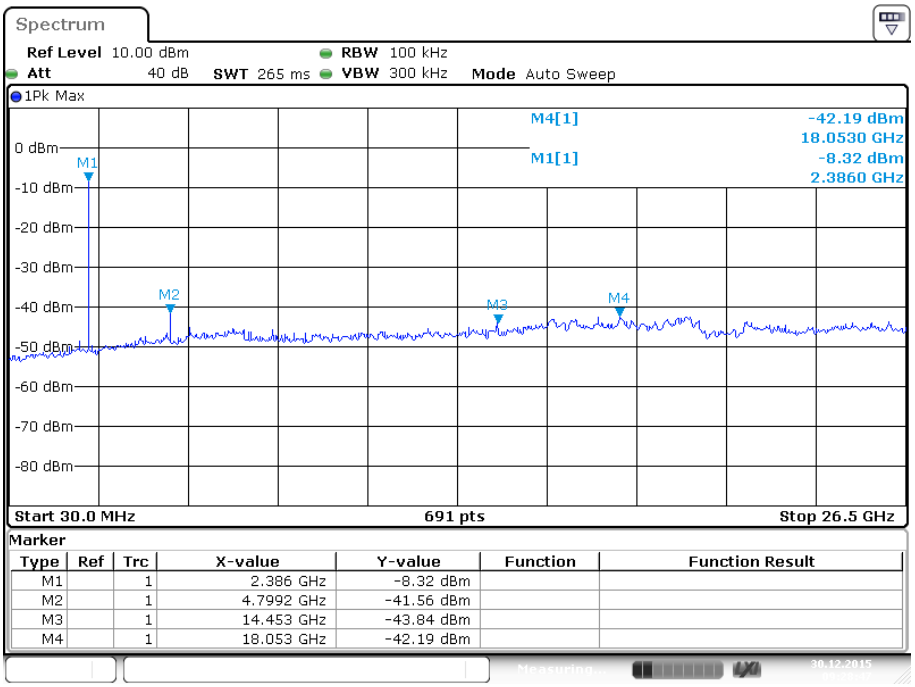


Date: 30.DEC.2015 09:36:12

Appendix A.2: Conducted Spurious Emissions Measured in 100 kHz Bandwidth

BDR Mode, DH1



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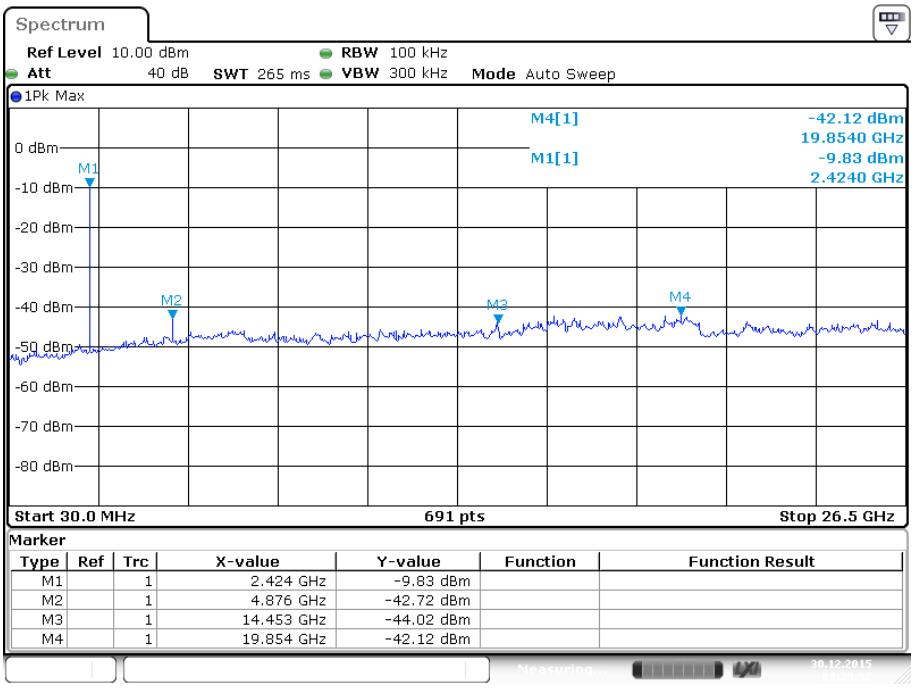

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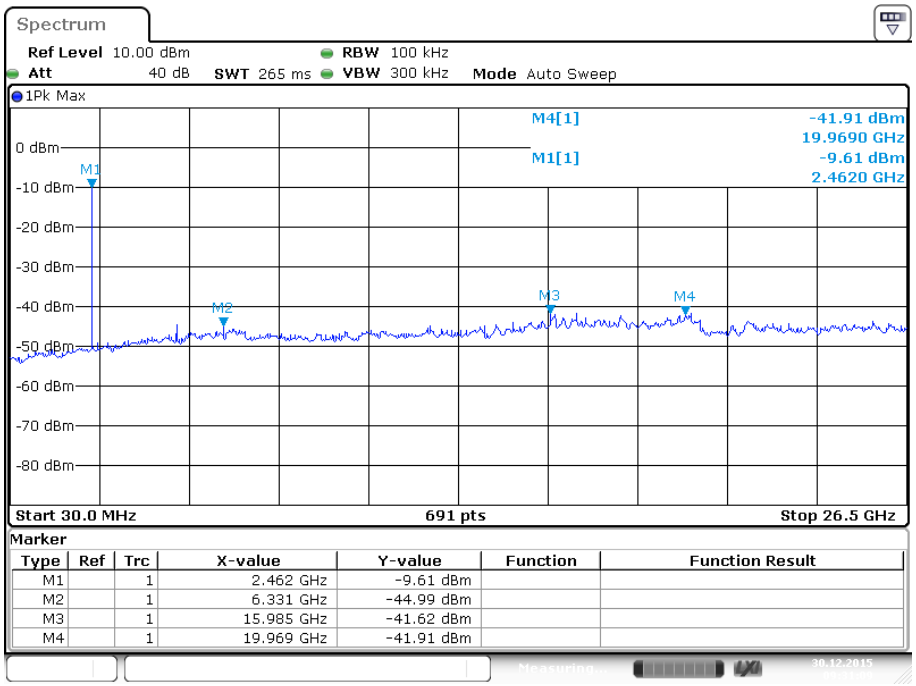

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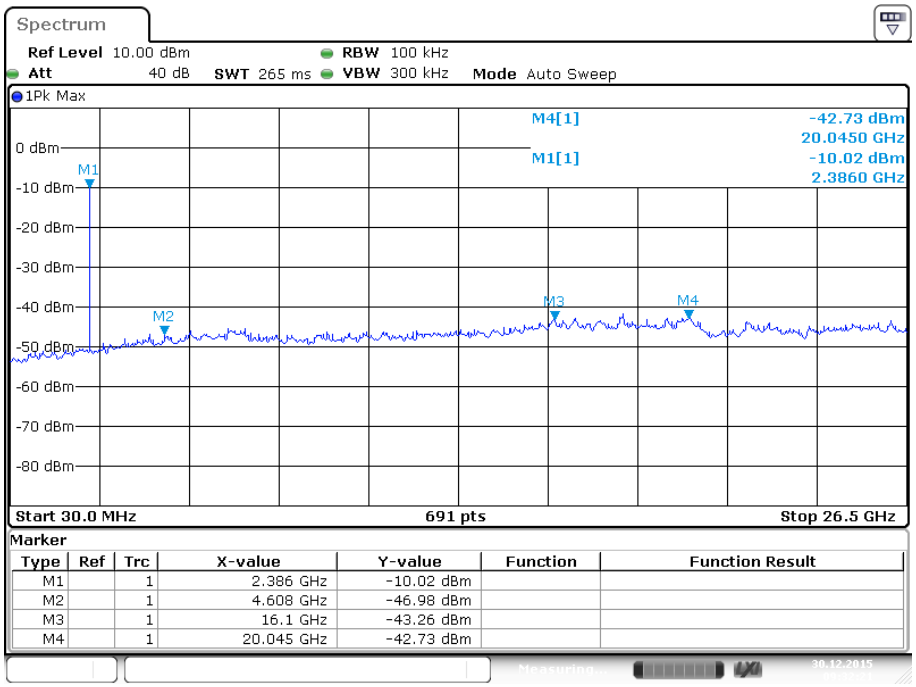
EDR Mode, 3DH1



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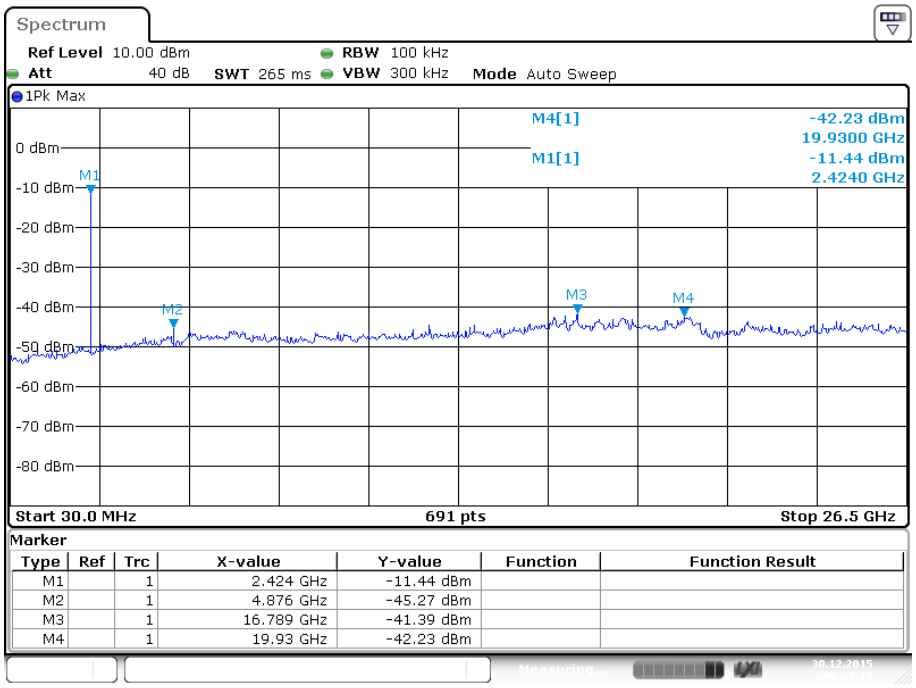

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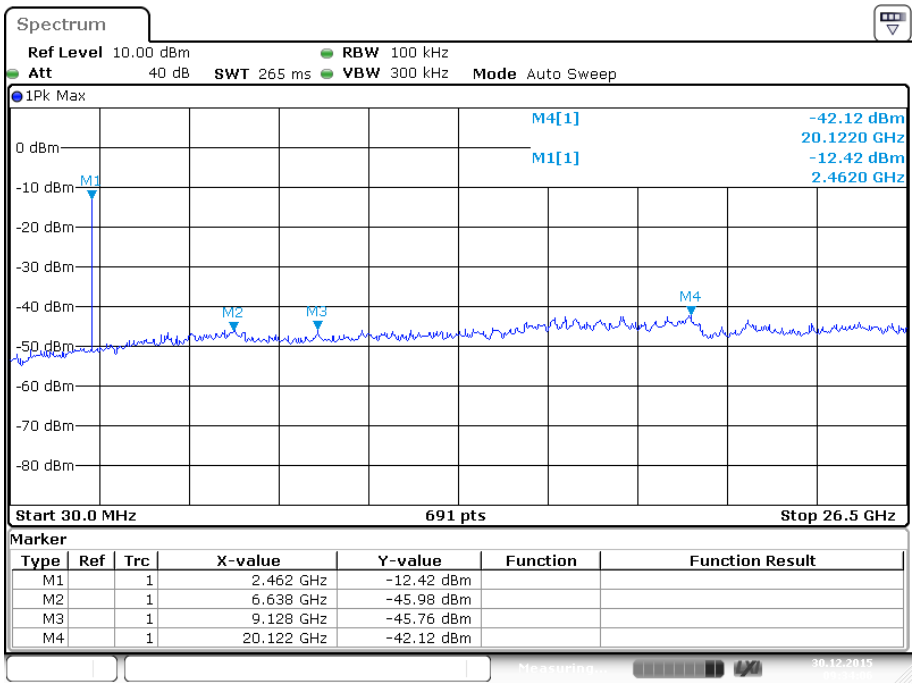
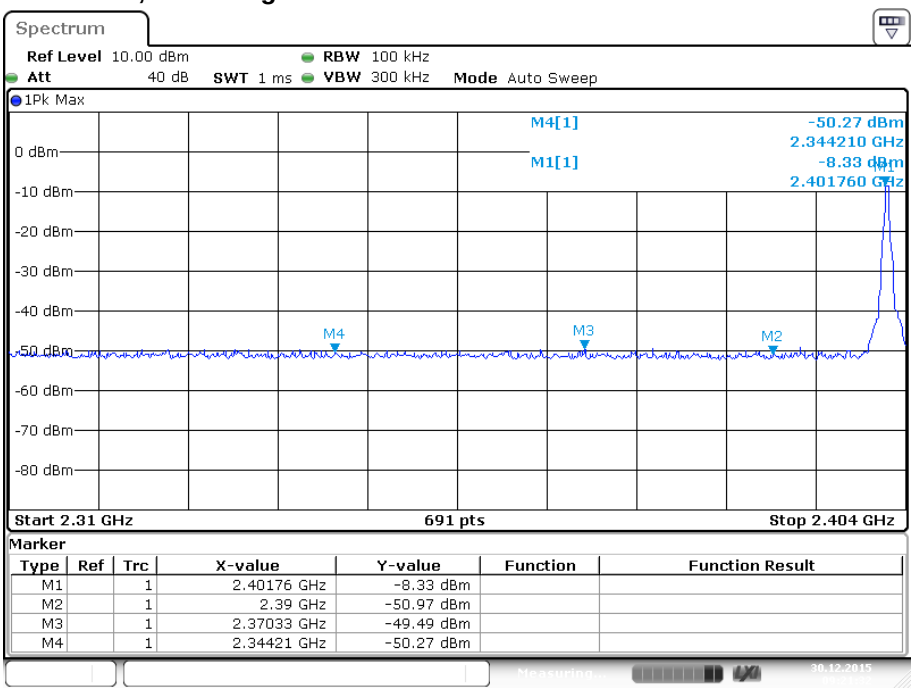


Date: 30.DEC.2015 09:34:06

BDR Mode, Band Edge



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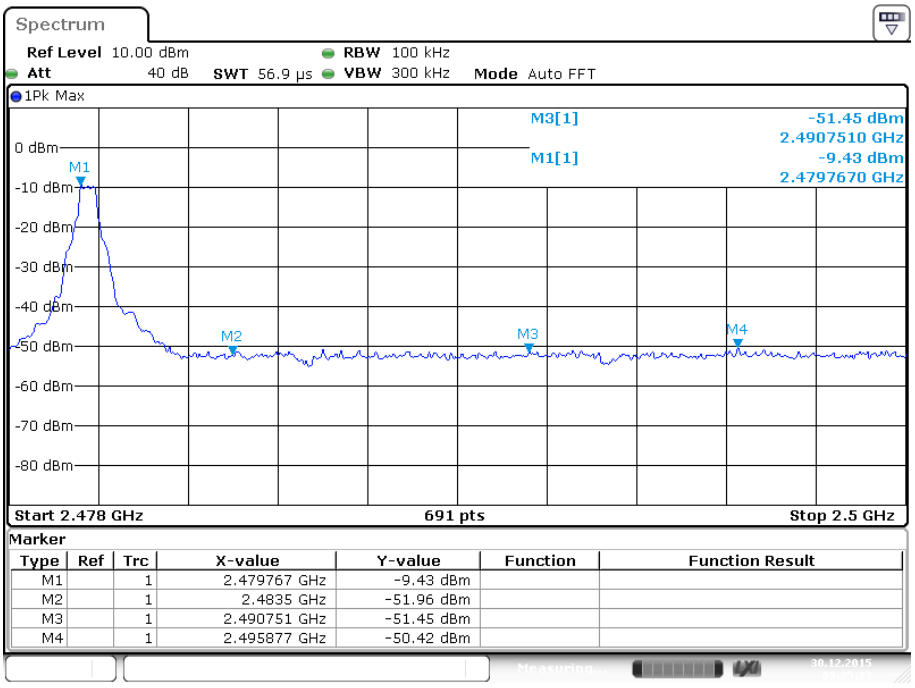

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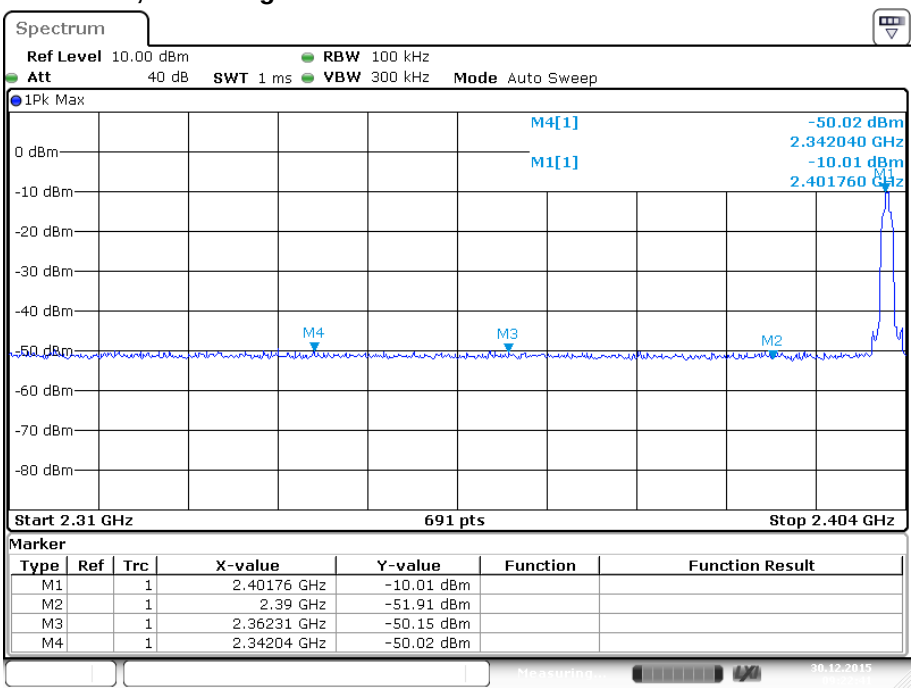
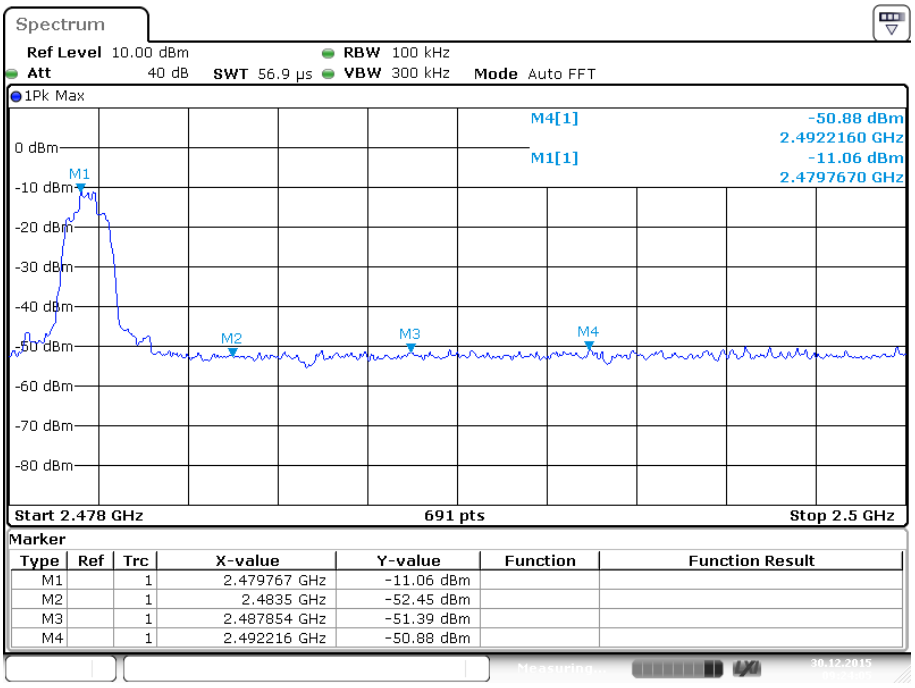
EDR Mode, Band Edge



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.40176 GHz	-10.01 dBm		
M2		1	2.39 GHz	-51.91 dBm		
M3		1	2.36231 GHz	-50.15 dBm		
M4		1	2.34204 GHz	-50.02 dBm		

Date: 30.DEC.2015 09:22:41



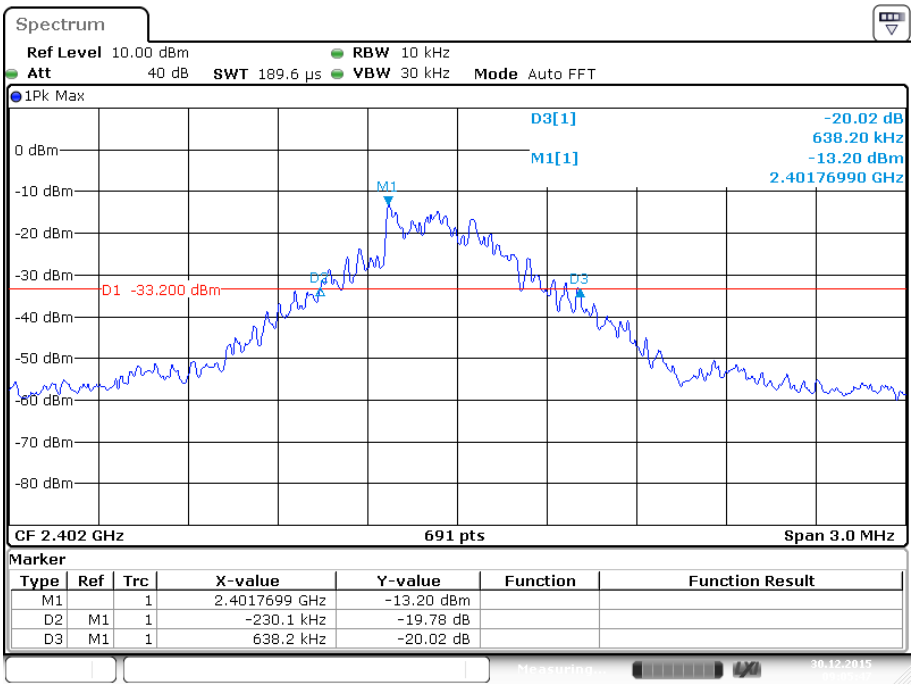
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.479767 GHz	-11.06 dBm		
M2		1	2.4835 GHz	-52.45 dBm		
M3		1	2.487854 GHz	-51.39 dBm		
M4		1	2.492216 GHz	-50.88 dBm		

Date: 30.DEC.2015 09:24:05

Appendix A.3: 20dB Bandwidth

BDR Mode, DH1



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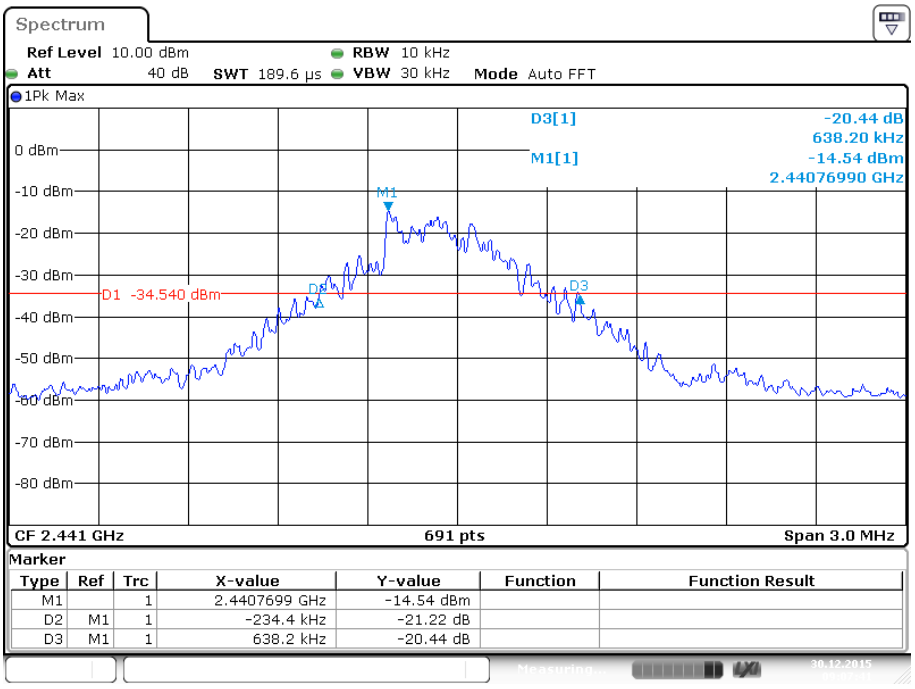
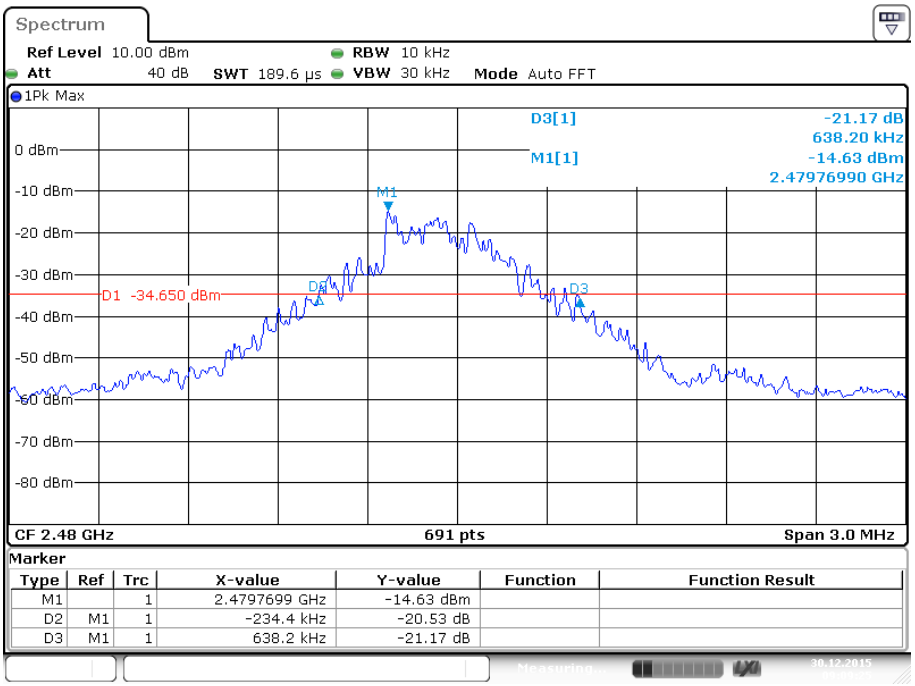
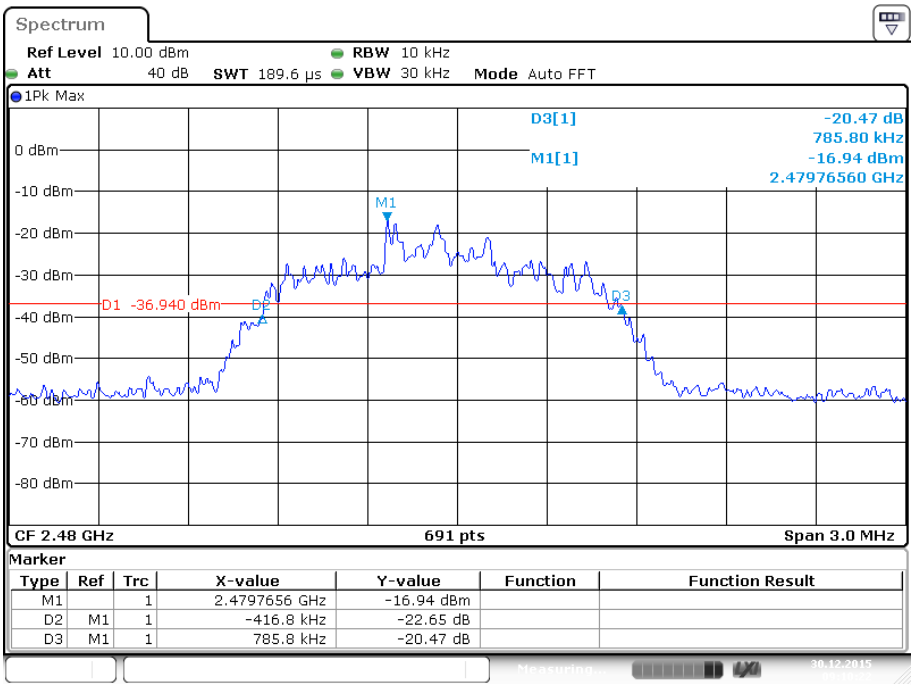


Date: 30.DEC.2015 09:07:41



Date: 30.DEC.2015 09:09:25

EDR Mode, 3DH1



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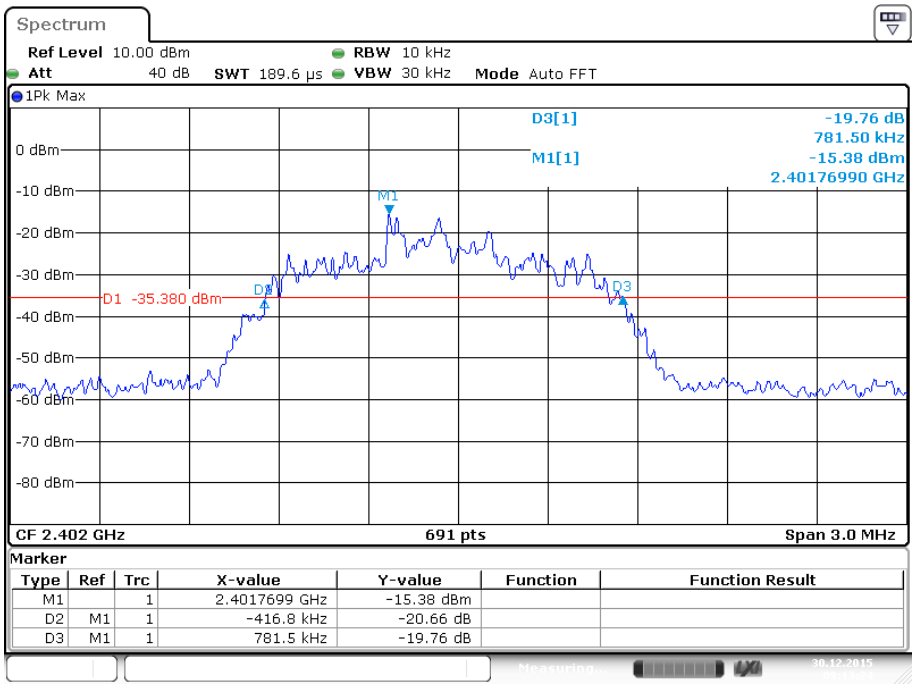

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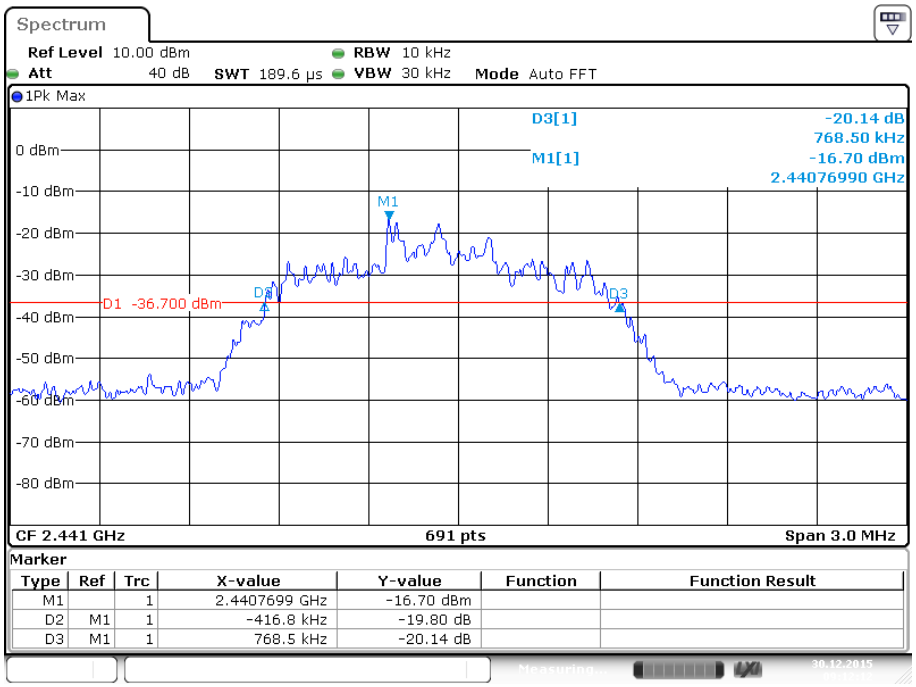

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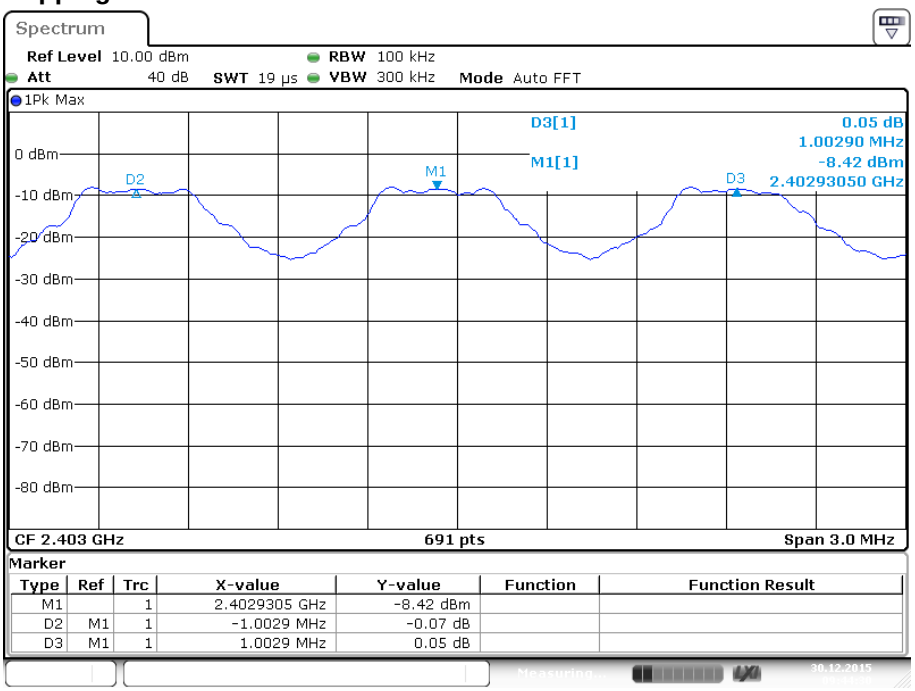
Appendix A.4: Carrier Frequency Separation

Hopping Mode



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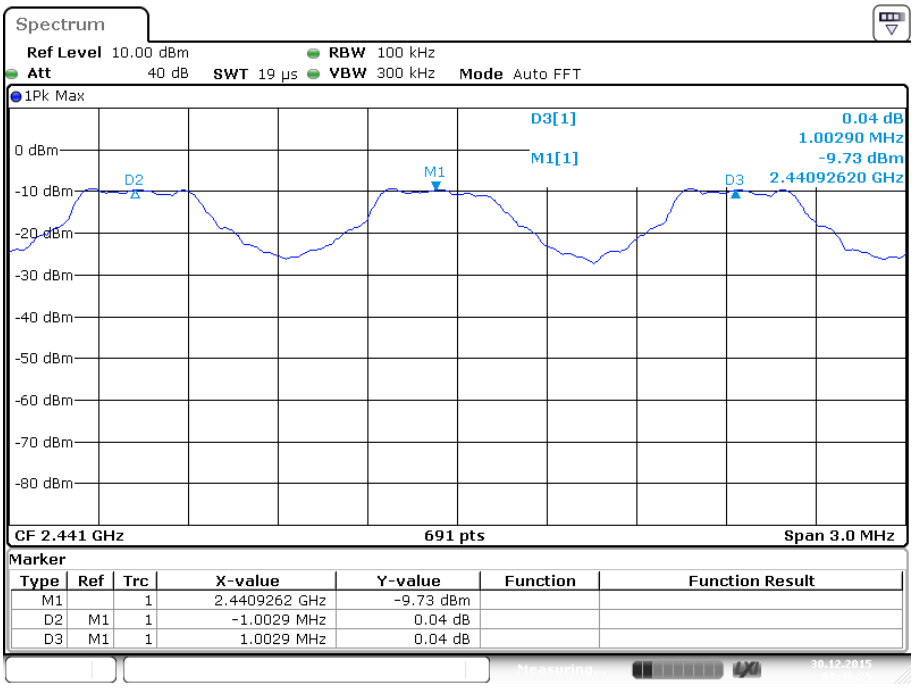

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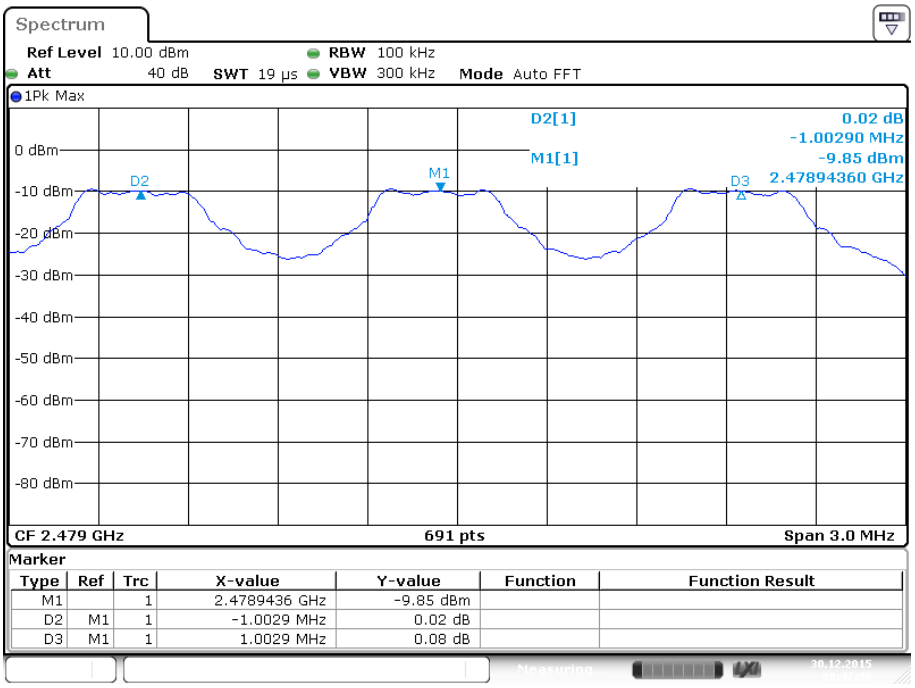
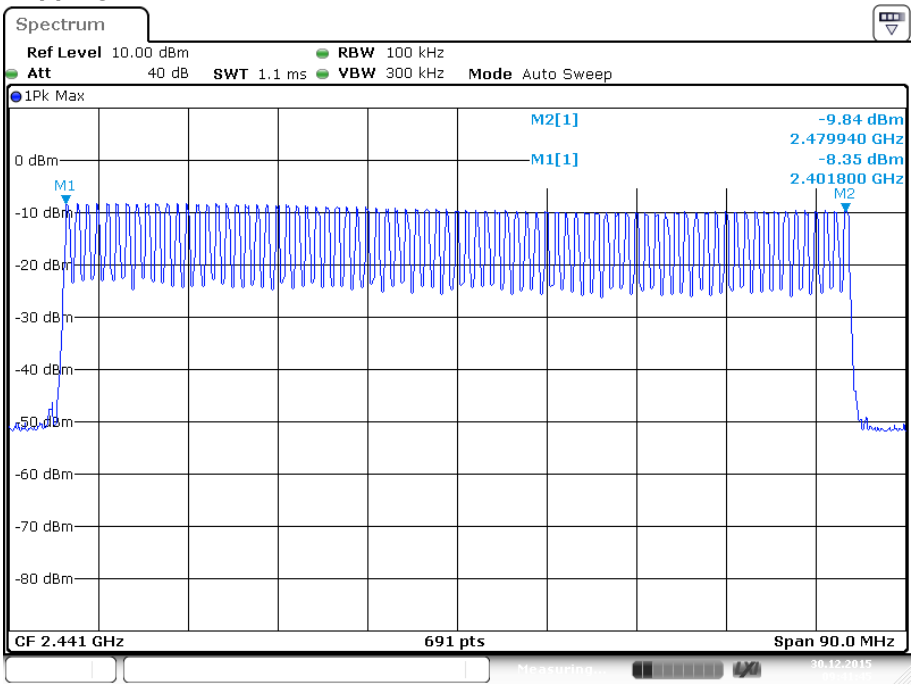


Date: 30.DEC.2015 09:47:30

Appendix A.5: Number of Hopping Frequency

Hopping Mode



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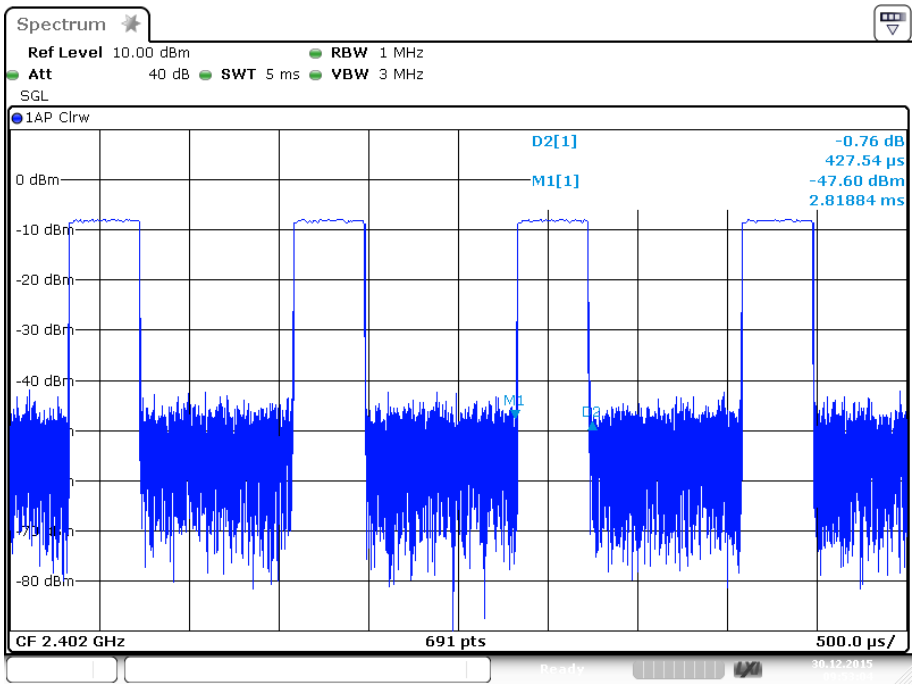
Appendix A.6: Time of Occupancy

BDR Mode, DH1



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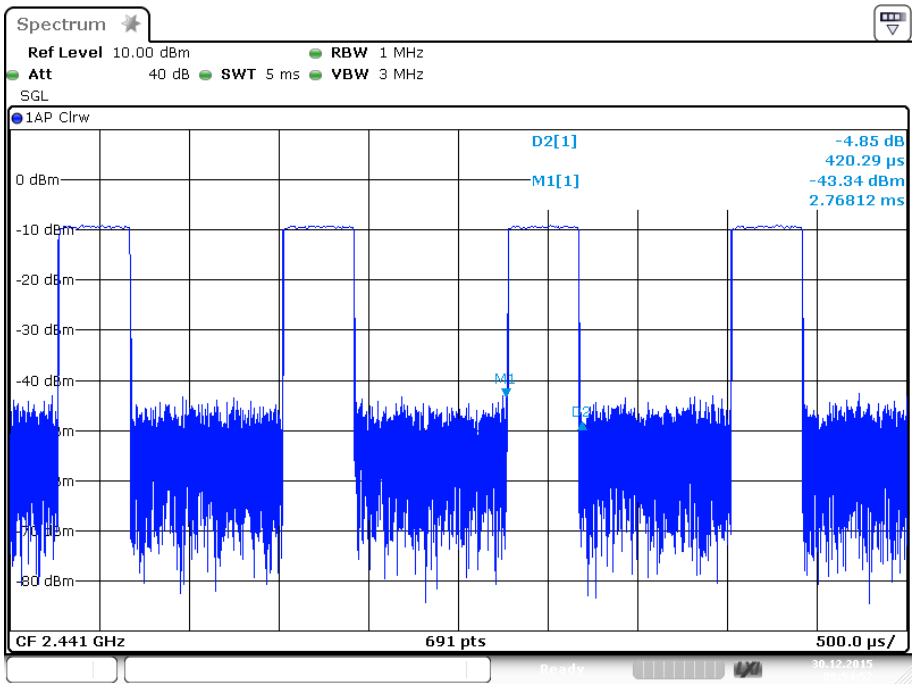

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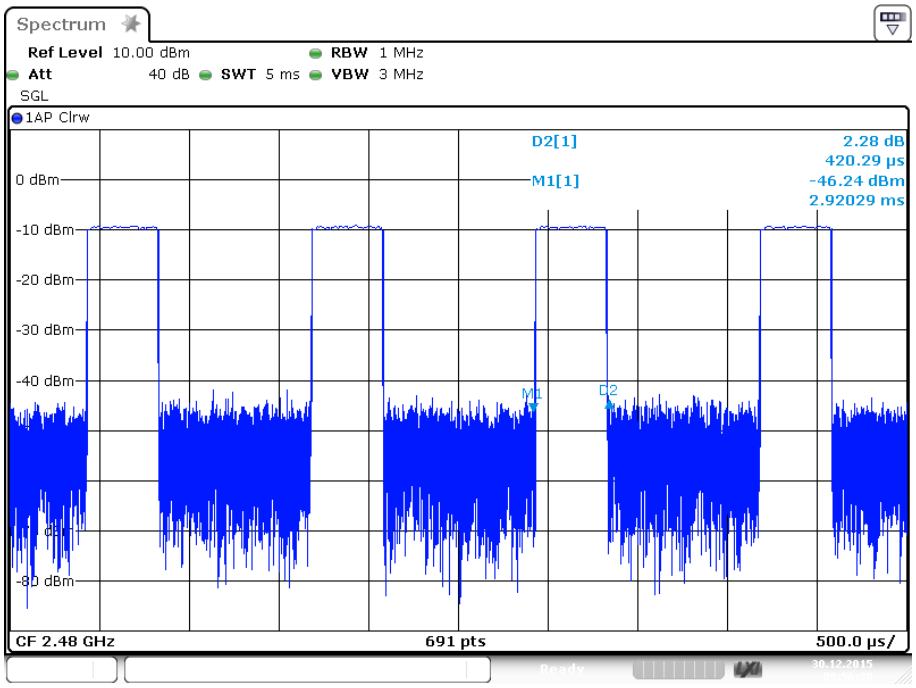

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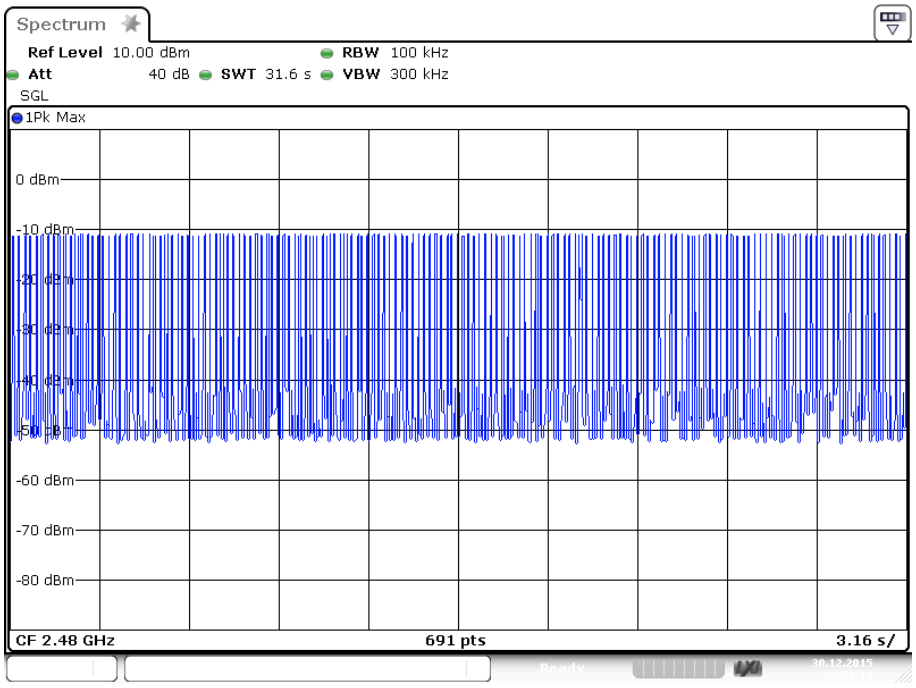

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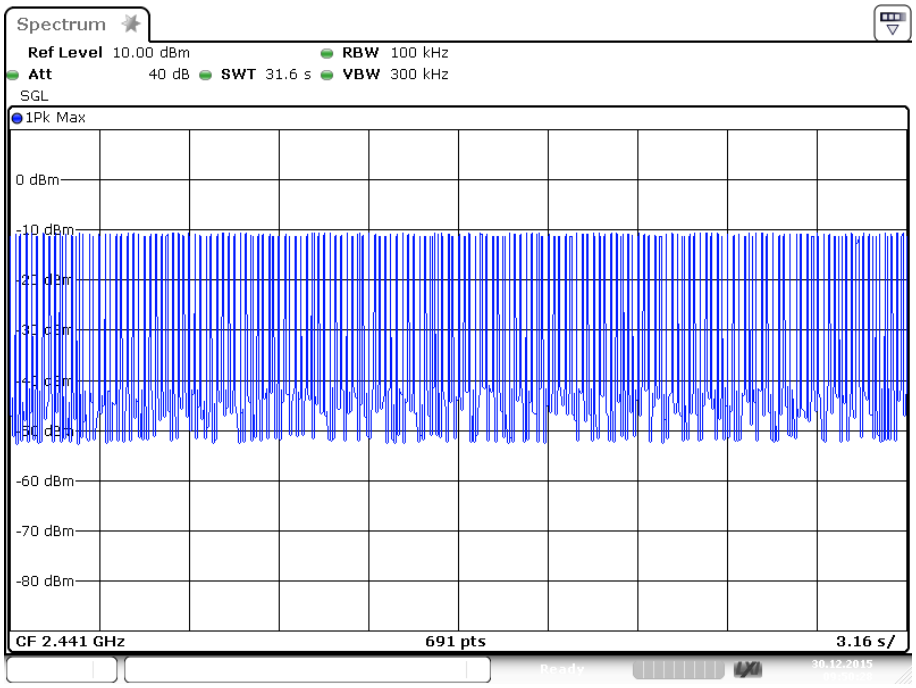

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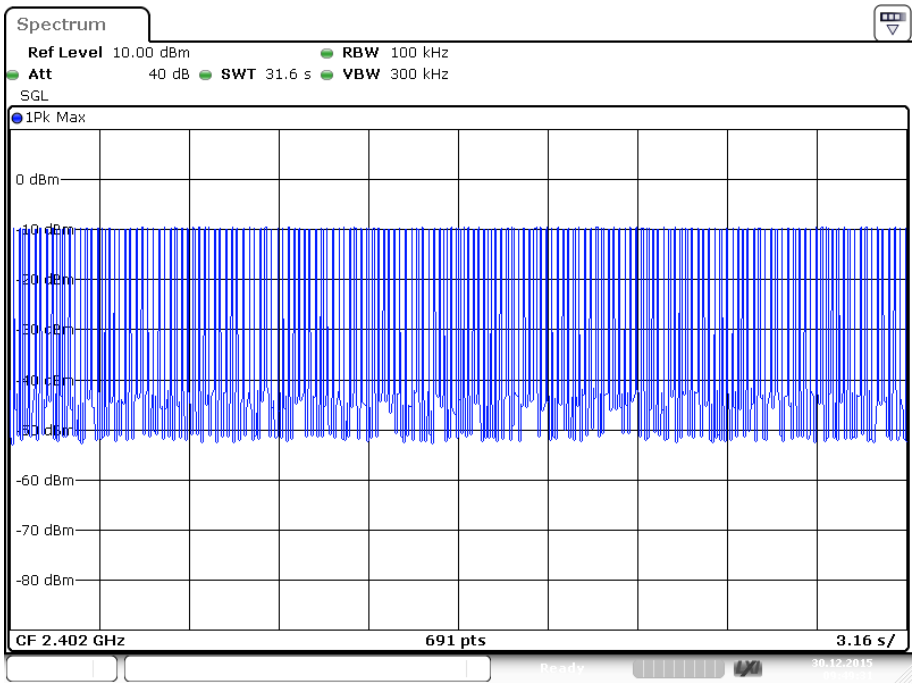

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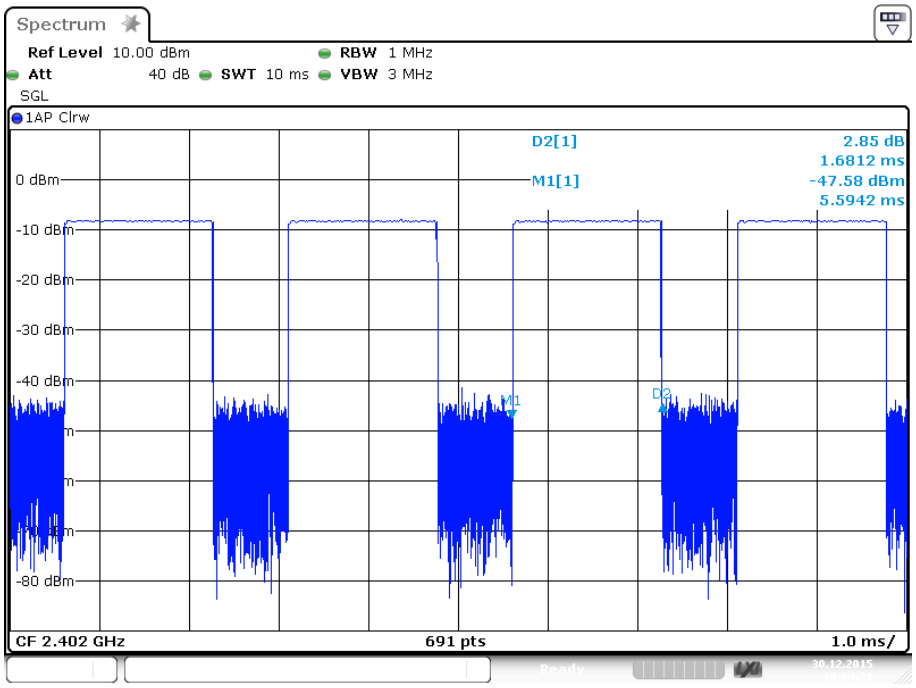
BDR Mode, DH3



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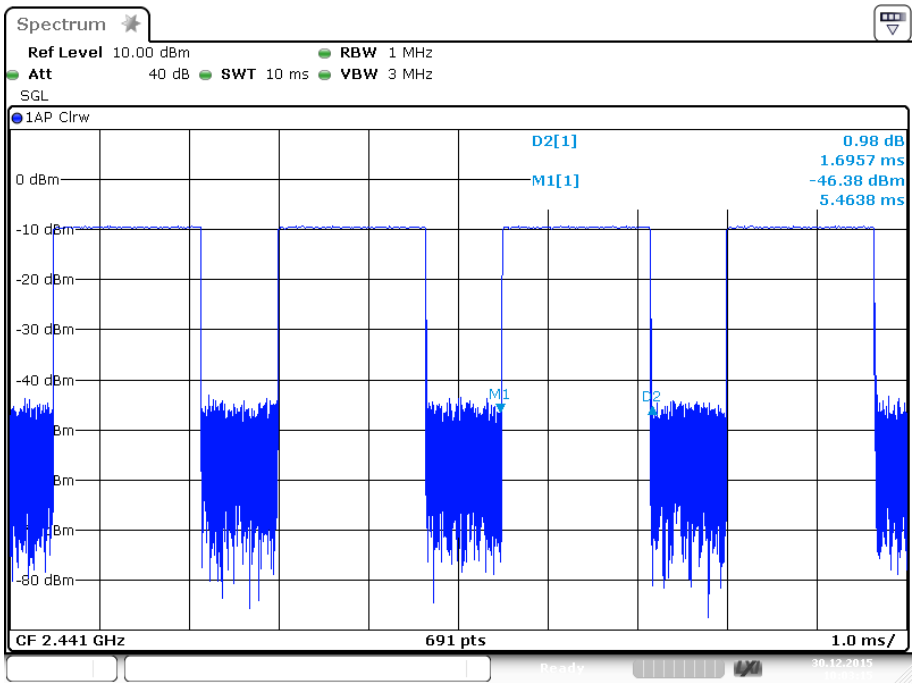

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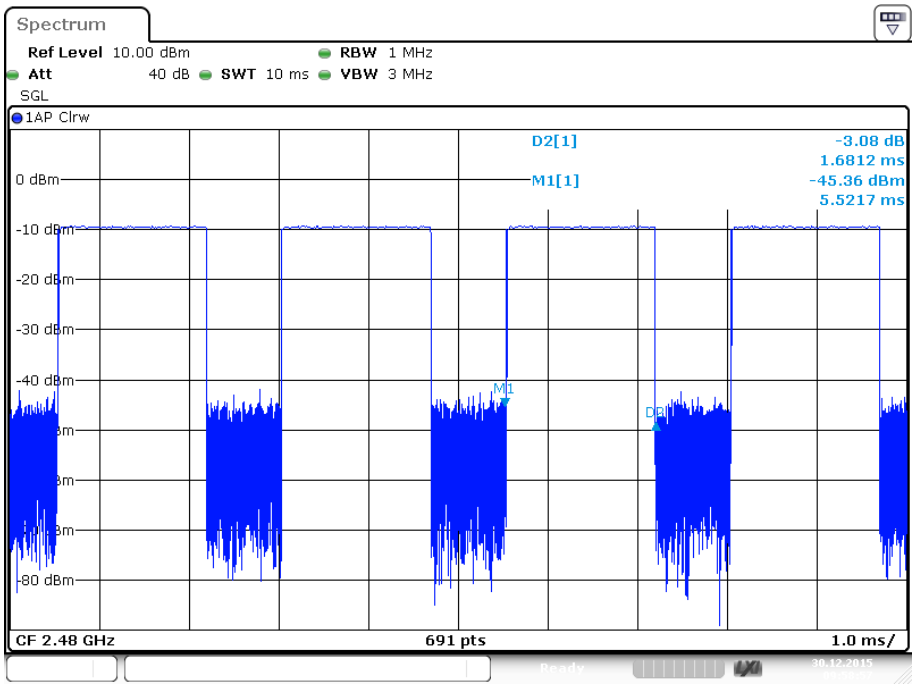

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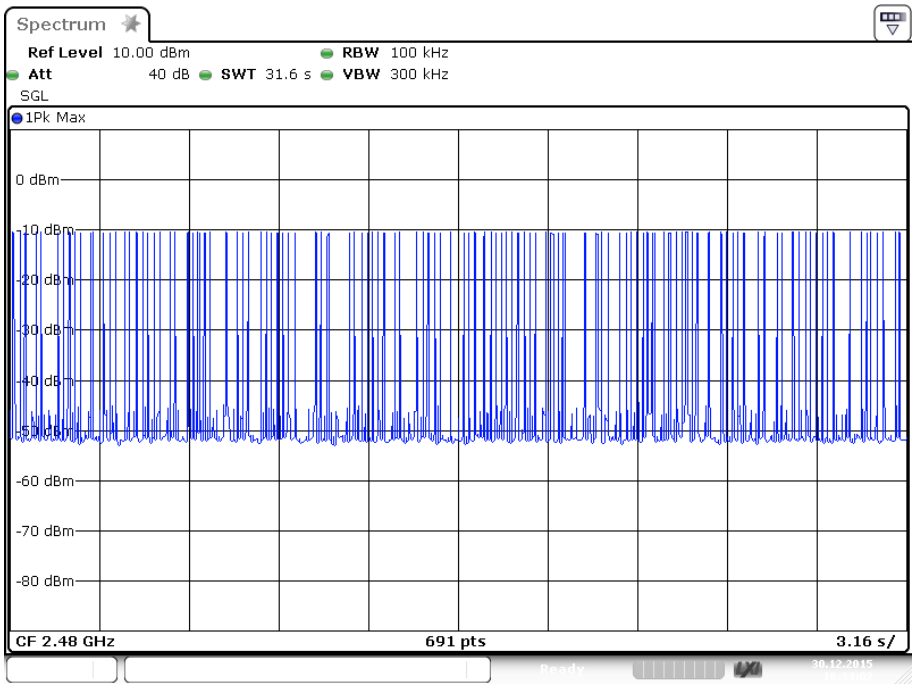

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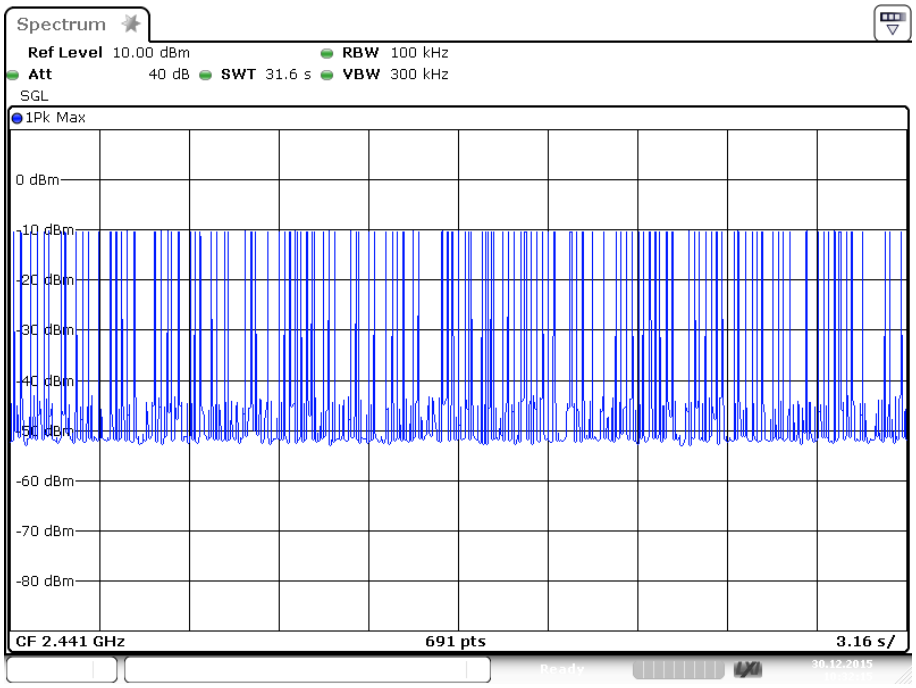

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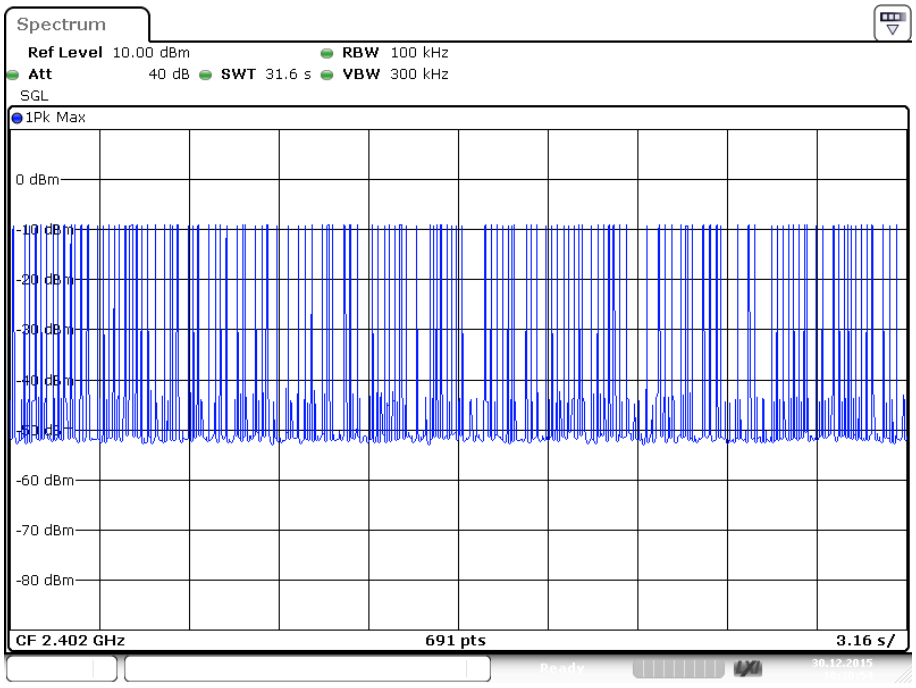
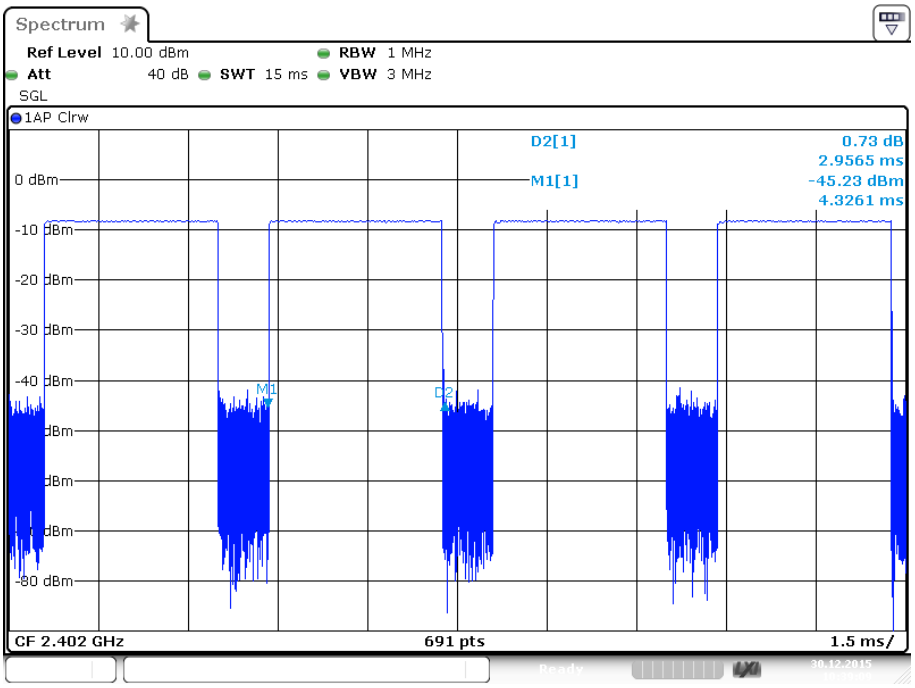


Date: 30.DEC.2015 10:30:54

BDR Mode, DH5



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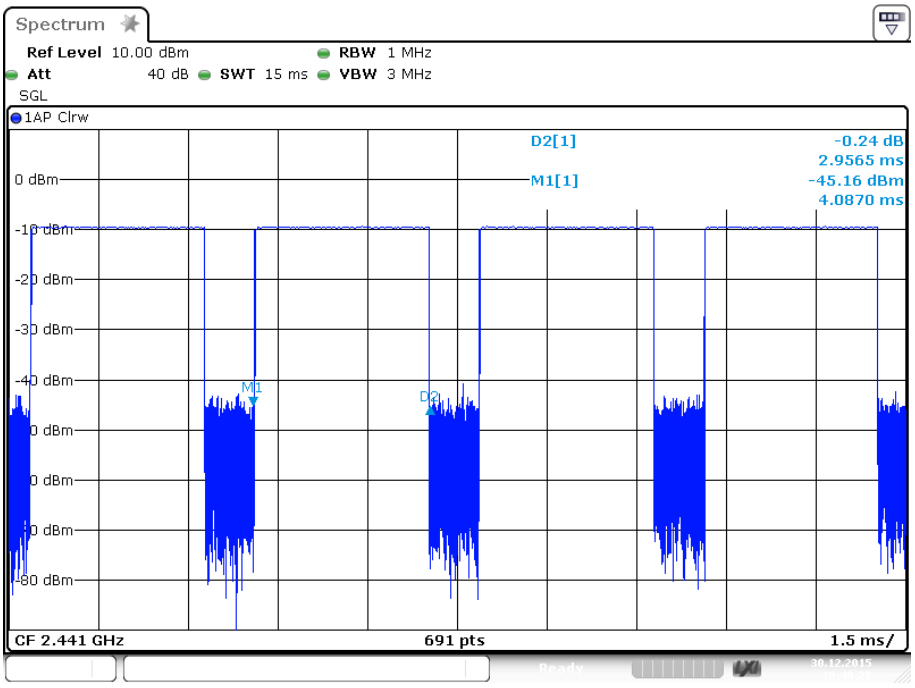

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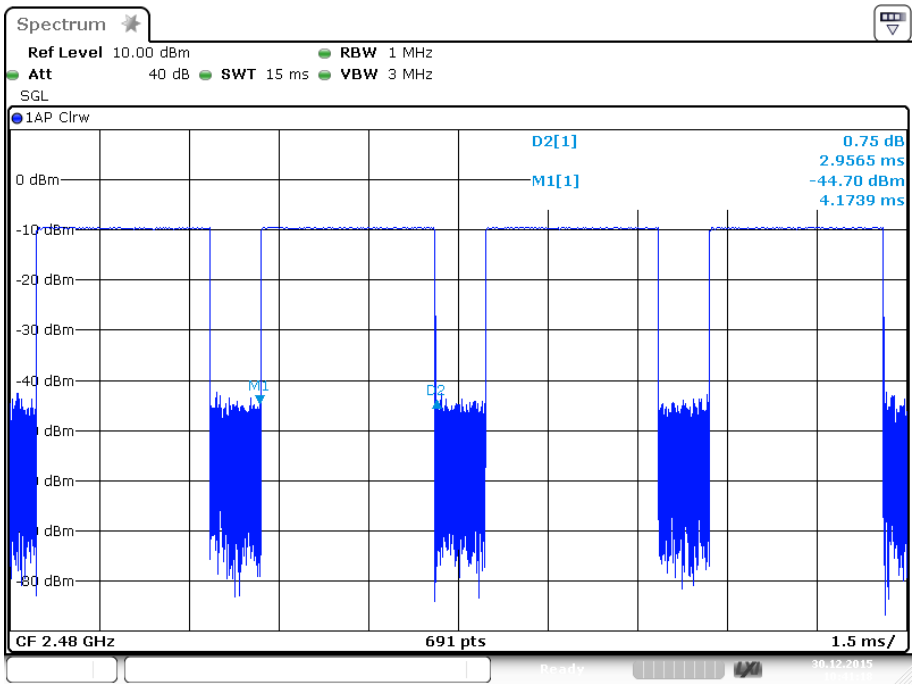

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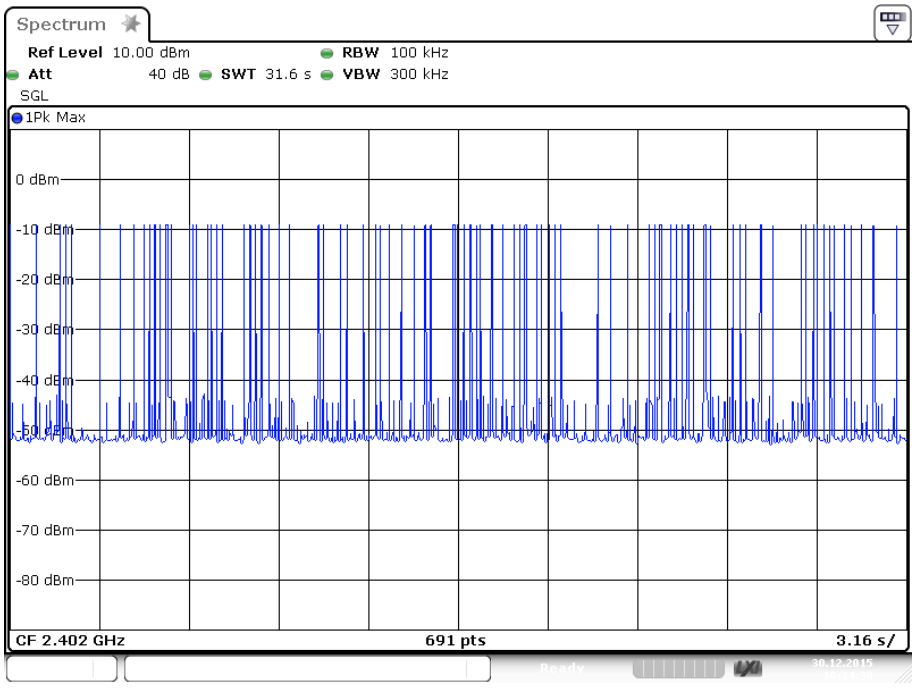

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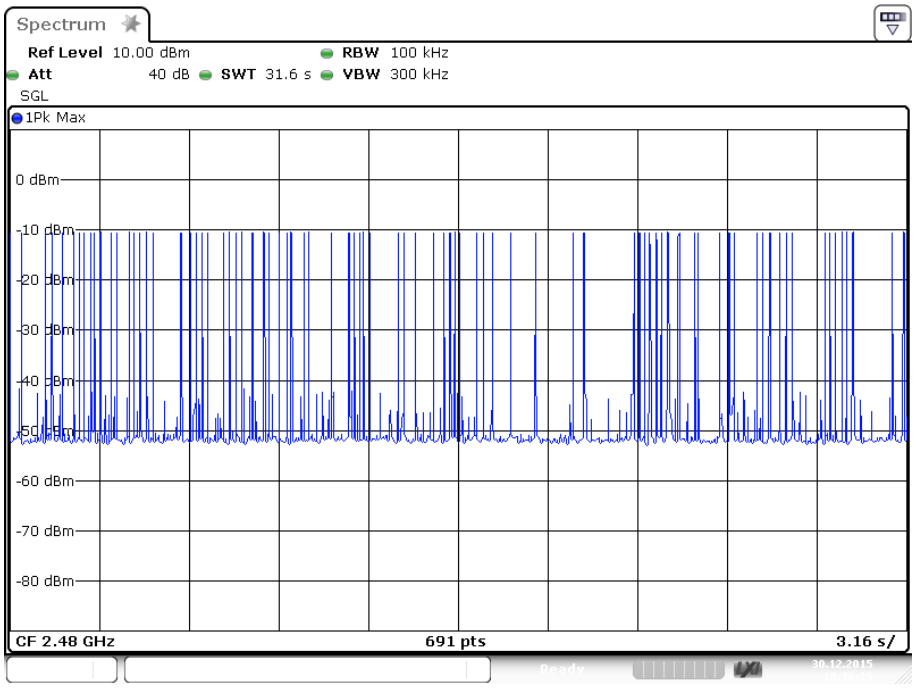

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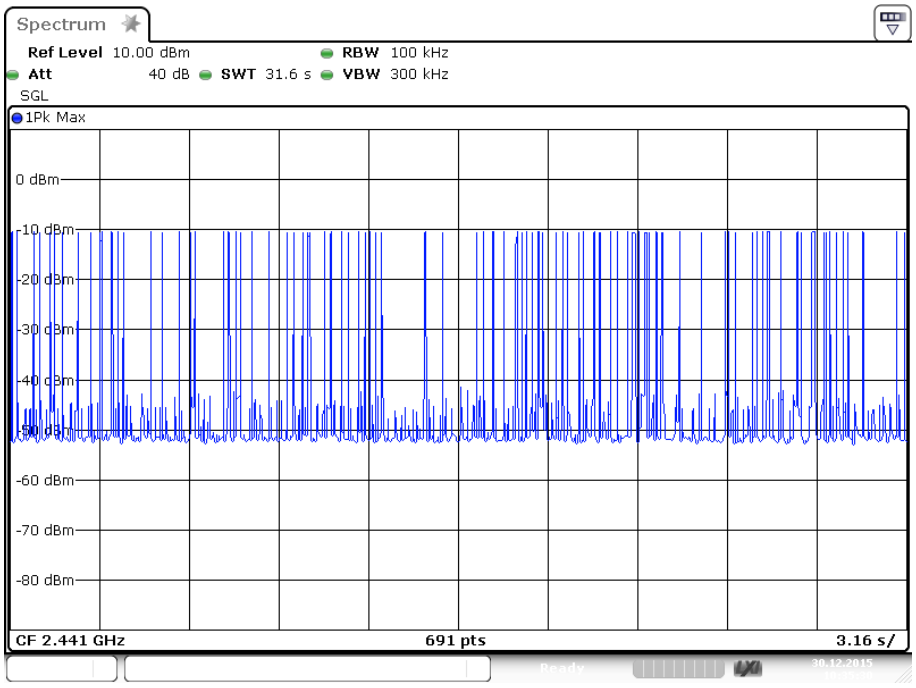

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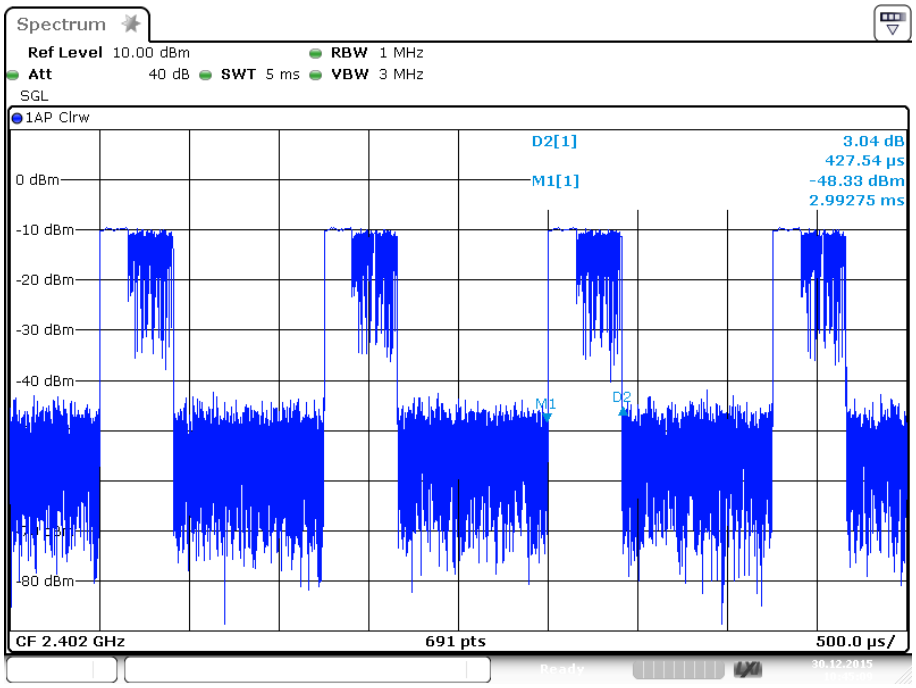
EDR Mode, 3DH1



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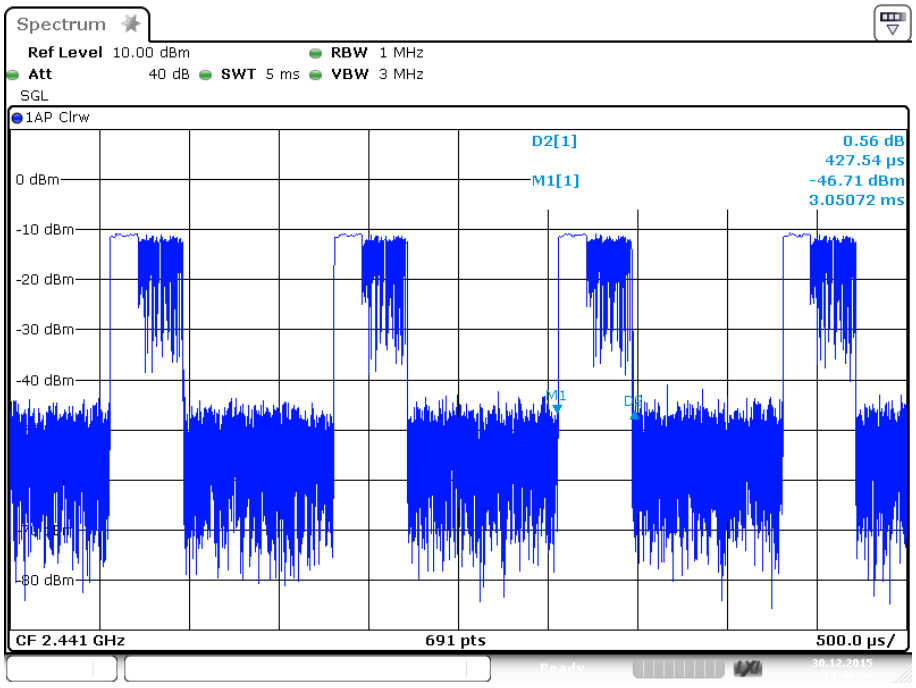

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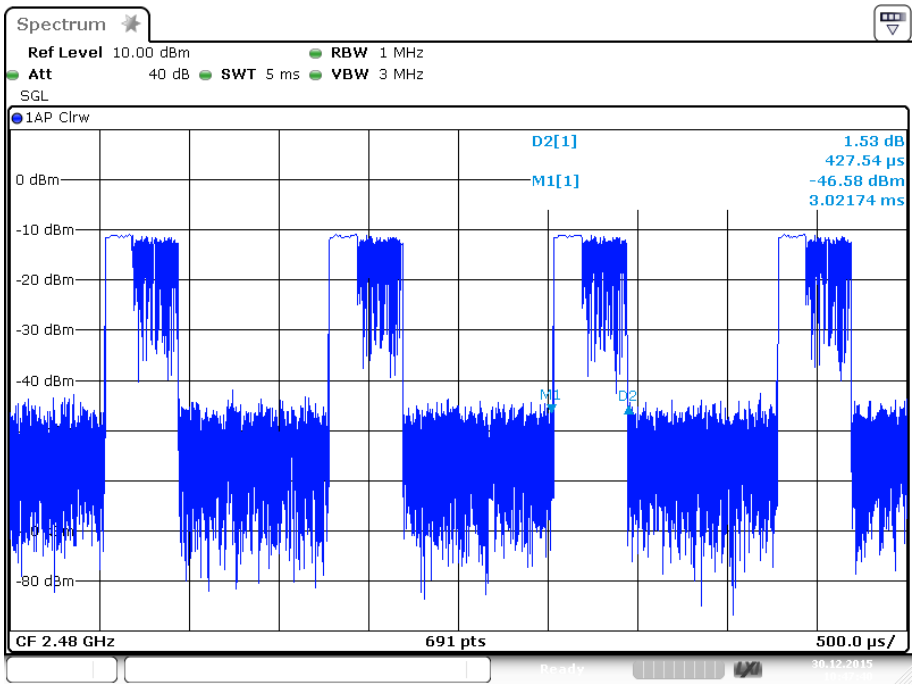

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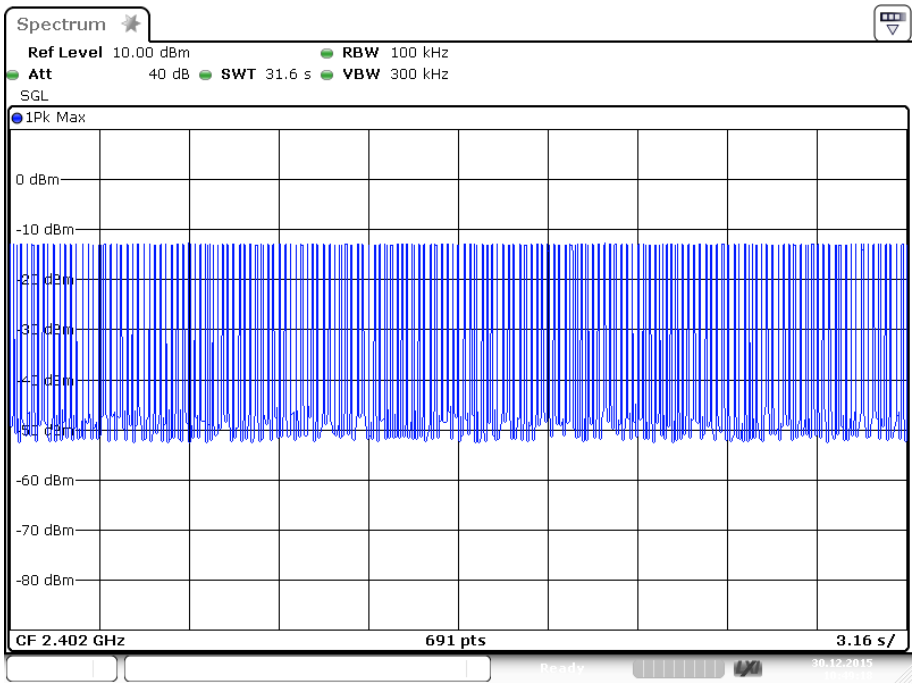

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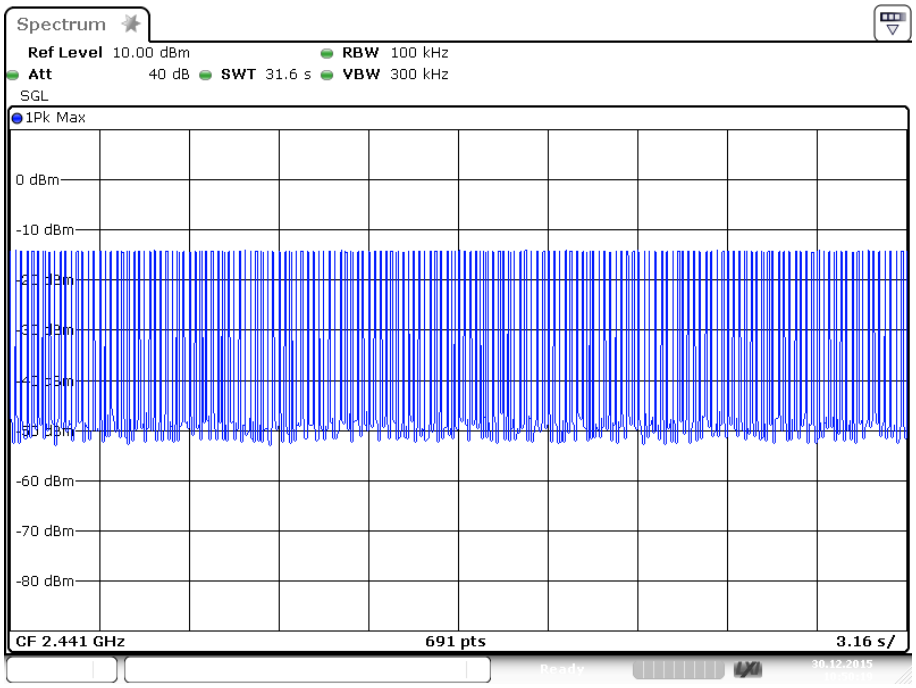

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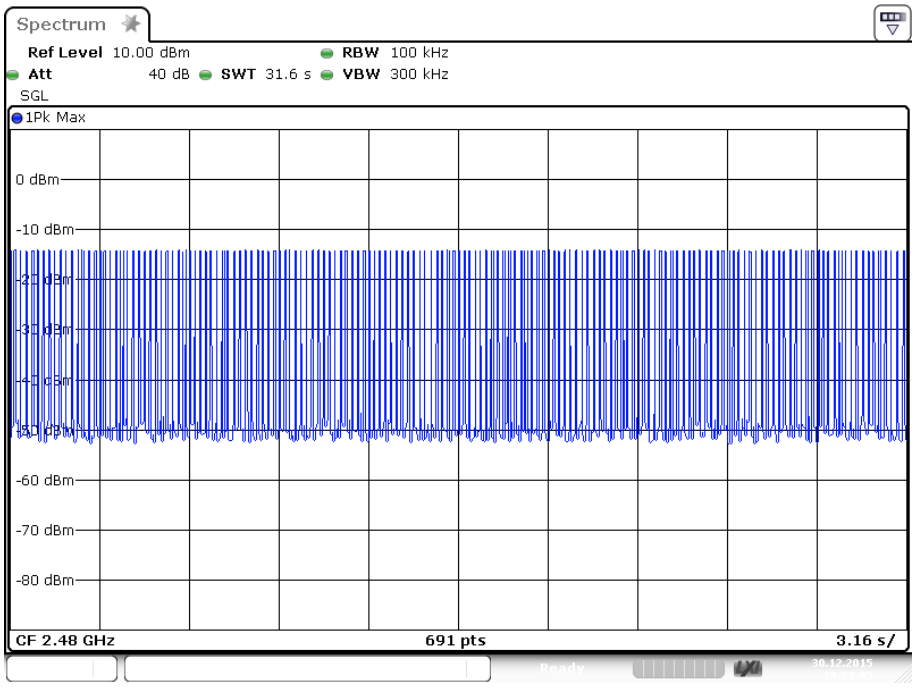
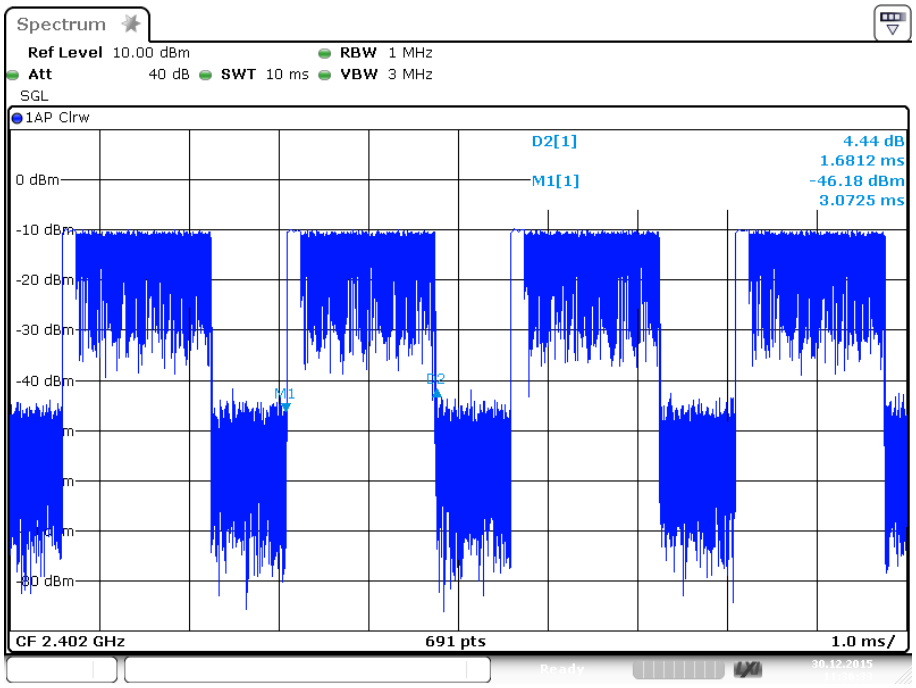


Date: 30.DEC.2015 10:51:05

EDR Mode, 3DH3



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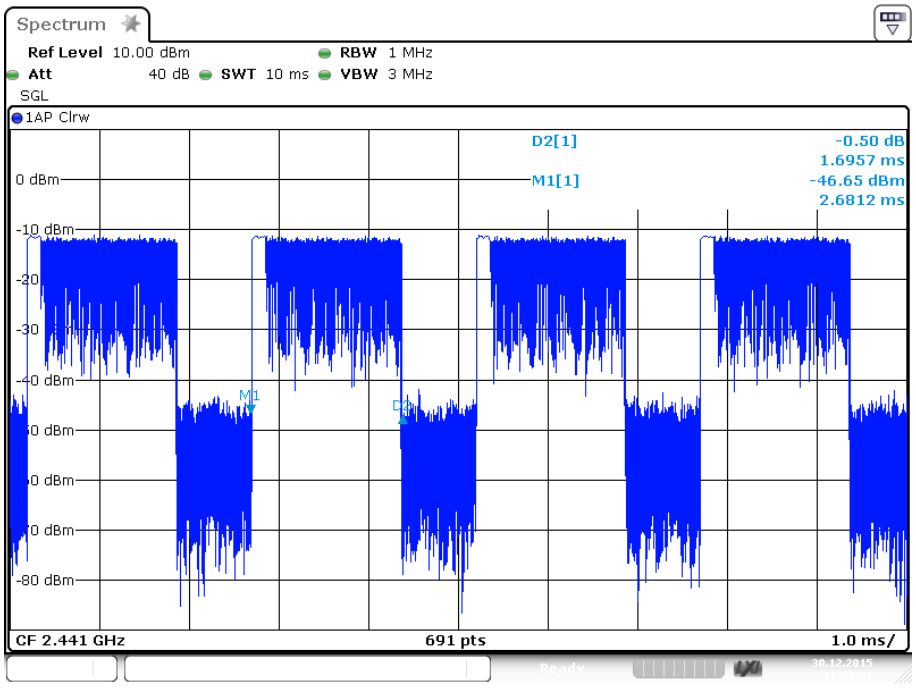

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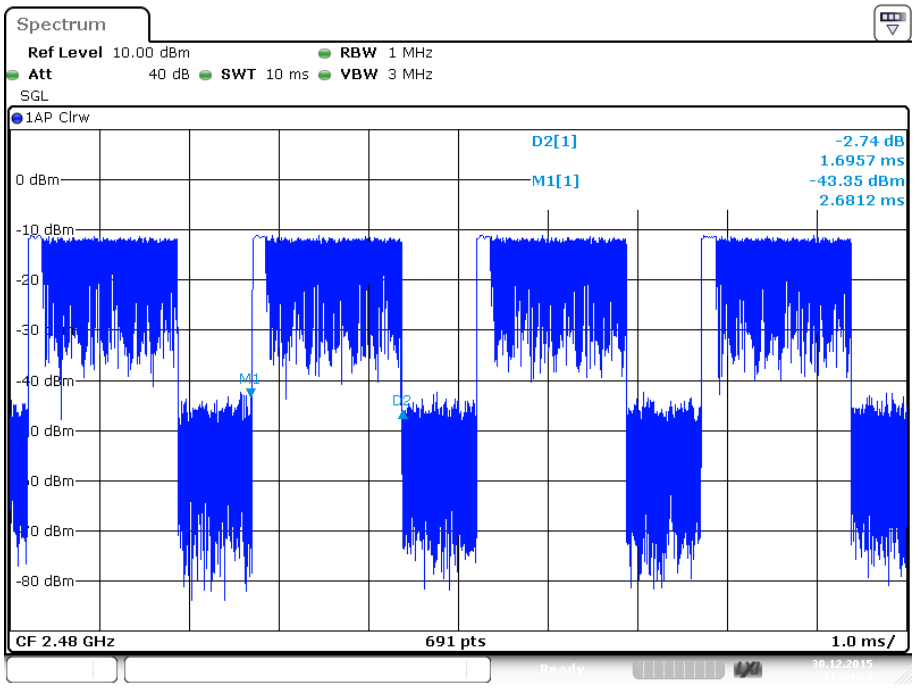

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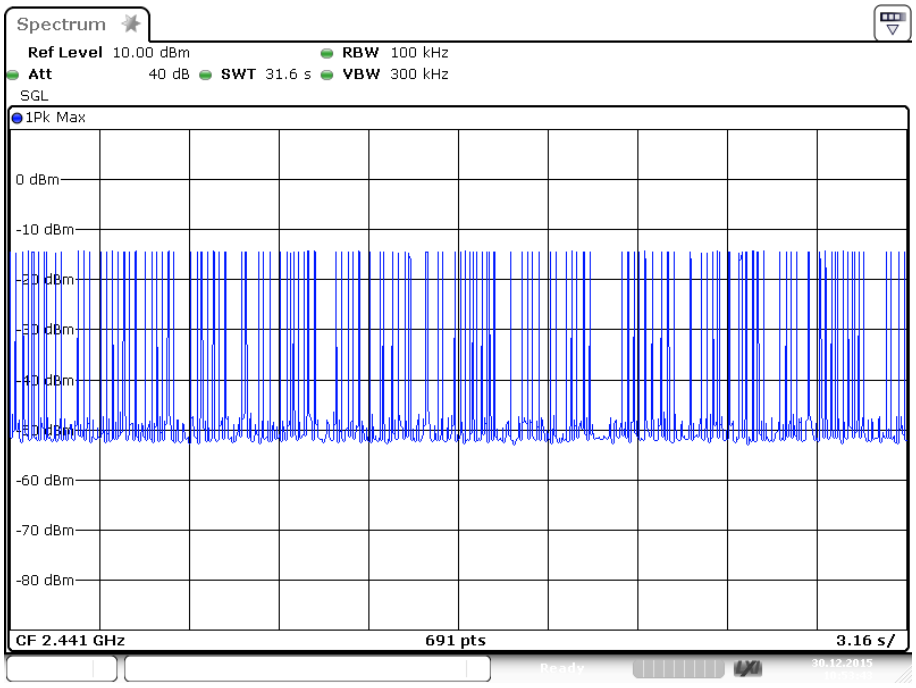

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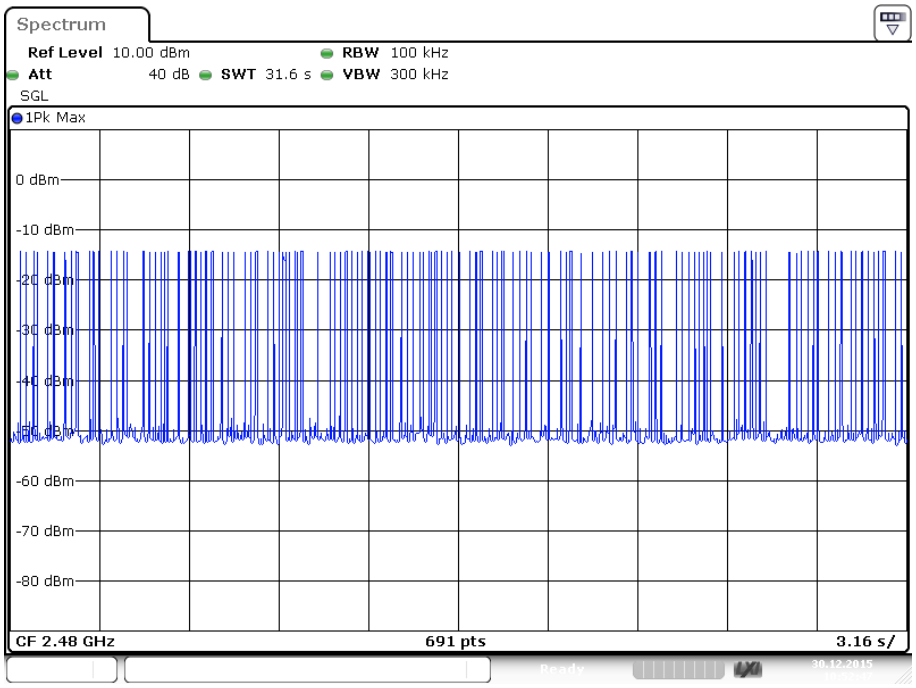

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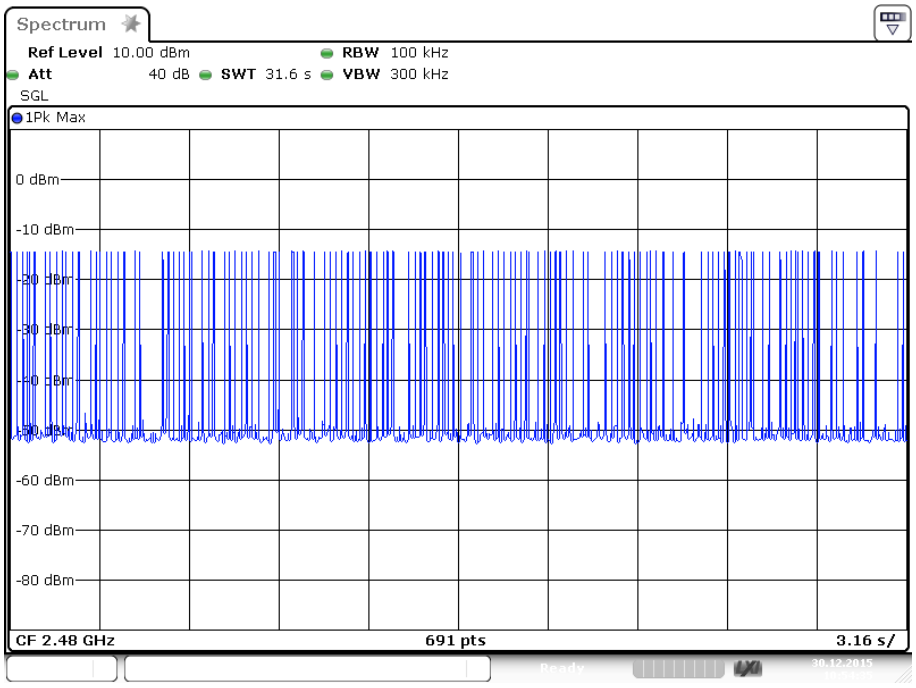

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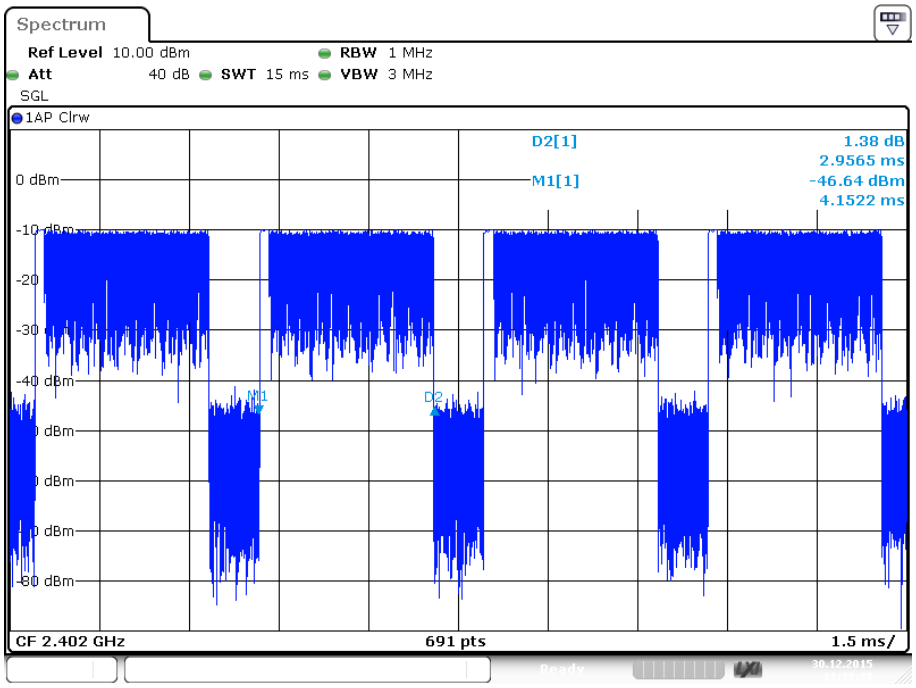
EDR Mode, 3DH5



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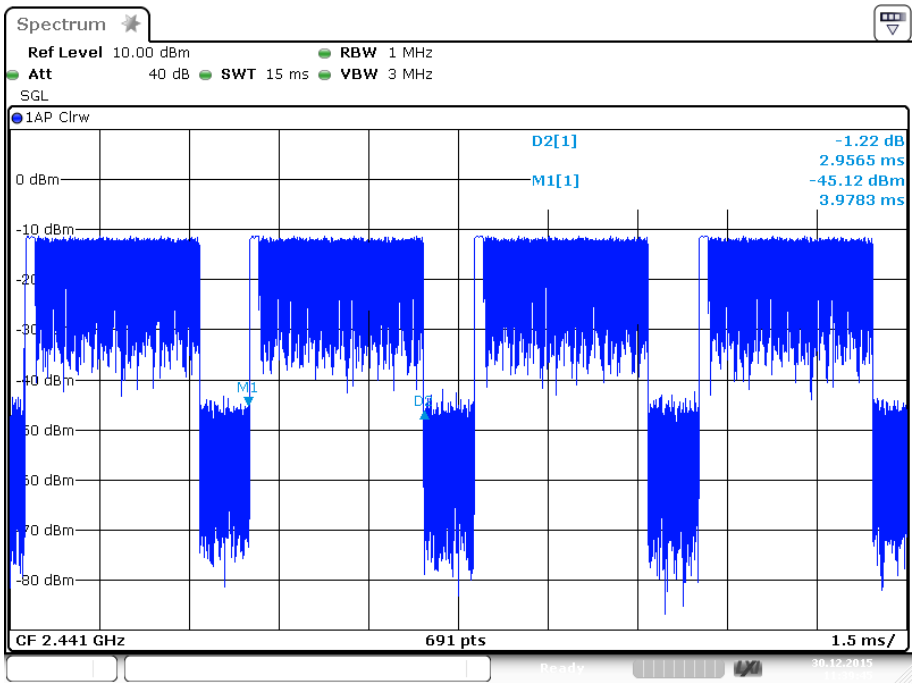

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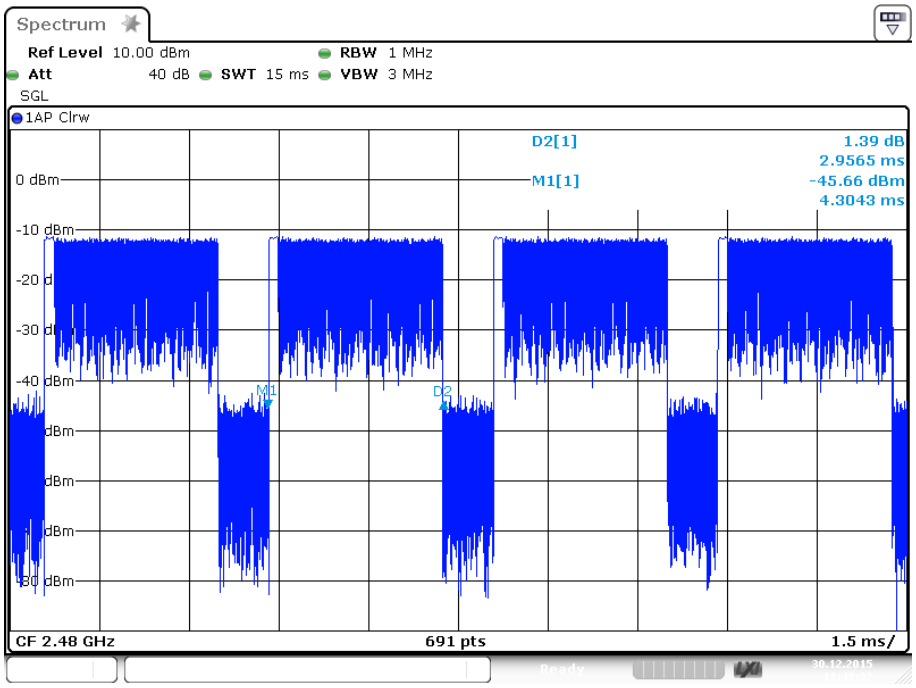

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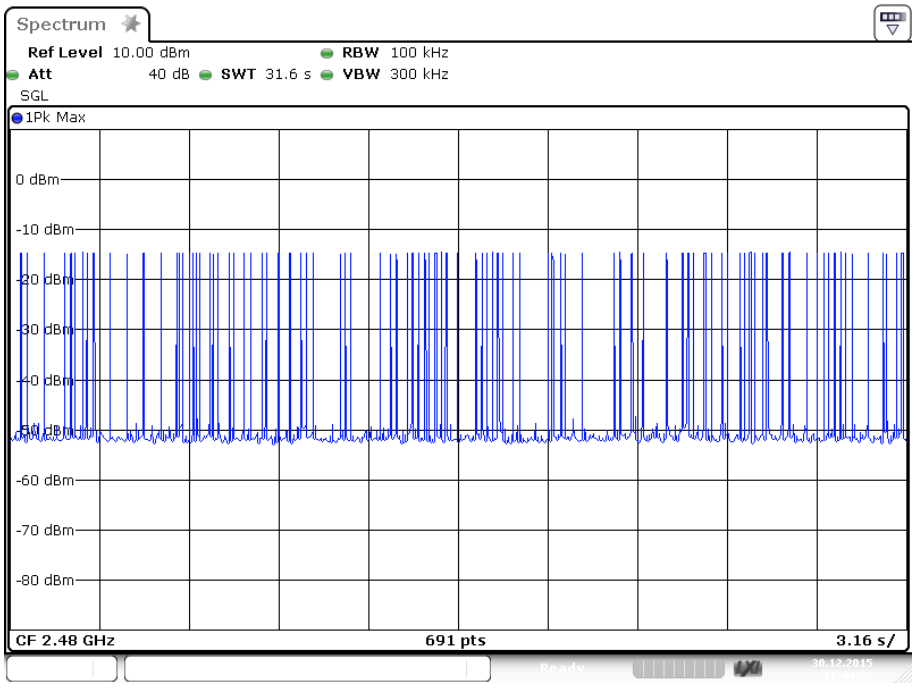

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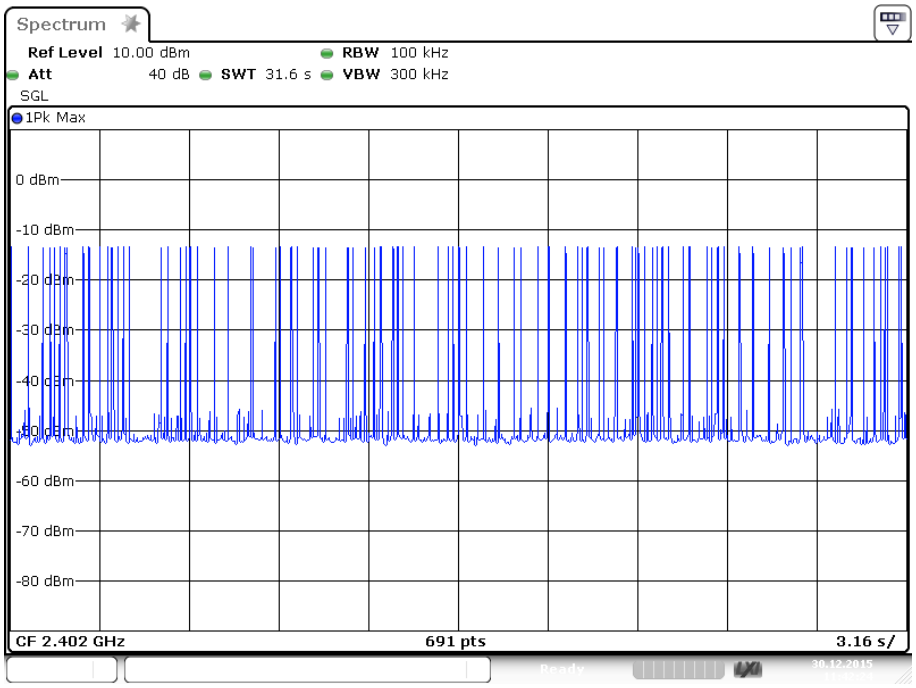

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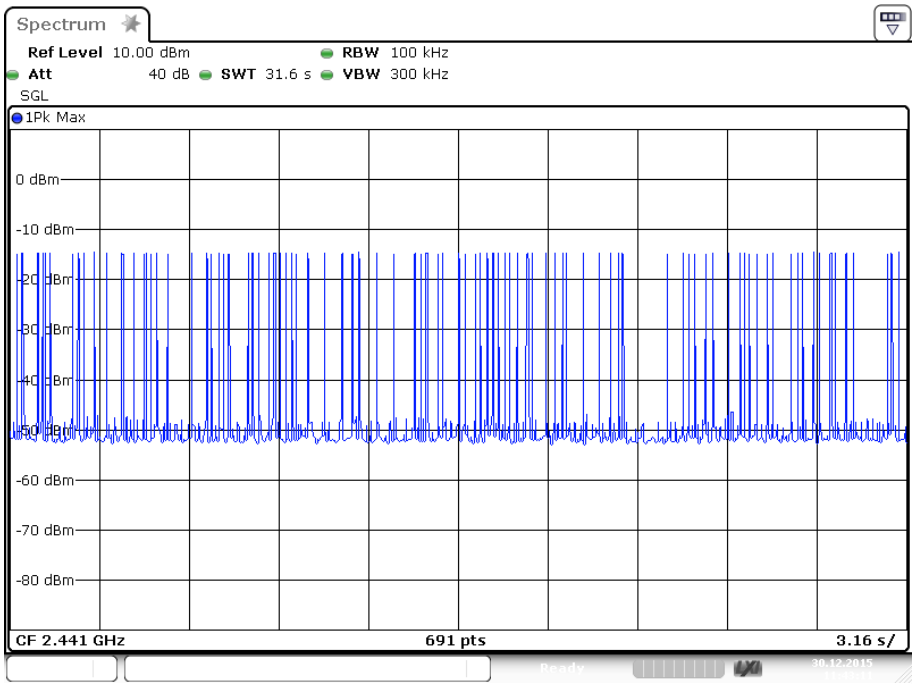


Date: 30.DEC.2015 11:43:11

Appendix B

Test Results of Bluetooth 3.0+HS of Radiated Testing

APPENDIX B.1: TEST PLOTS OF RADIATED SPURIOUS EMISSION 2

9KHz - 30MHz 2
30MHz - 1GHz 5
1GHz - 18GHz 11
18GHz - 26.5GHz 17

APPENDIX B.2: TEST PLOTS OF BAND EDGE (RADIATED) 23

LOW CHANNEL 23
HIGH CHANNEL 25

APPENDIX B.3: TEST PLOTS OF CONDUCTED EMISSION 27

C MODE 27
D MODE 29

APPENDIX B.4: TEST PLOTS OF RADIATED EMISSION 31

D MODE 31

Note: The measurements with active loop antenna were greater than 20dB below the limit, so Radiated Spurious Emissions (9kHz – 30MHz) tests were applied on BDR mode only.

Appendix B.1: Test Plots of Radiated Spurious Emission

9KHz - 30MHz

ACCURATE TECHNOLOGY CO.,LTD

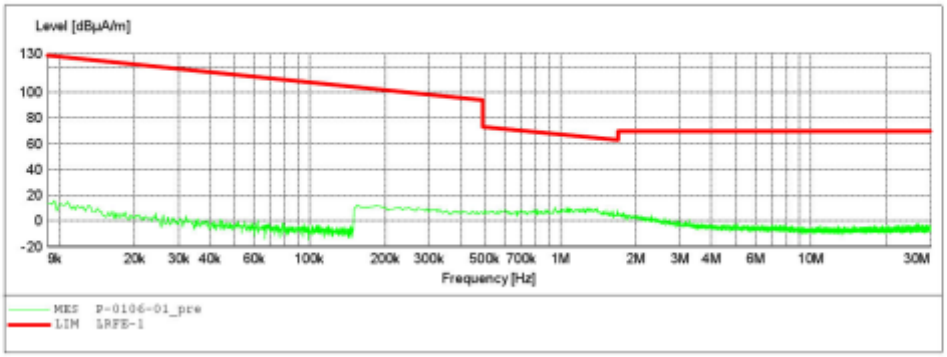
FCC Class B 3M Radiated

```
EUT:                    Razor Headphones M/N:6278701
Manufacturer:           Primark Stores Limited
Operating Condition:    TX 2402MHz
Test Site:              2# Chamber
Operator:               LAN
Test Specification:     DC 3.7V
Comment:                X
Start of Test:          2016-1-6 /
```

SCAN TABLE: "LFRE Fin"

Short Description: _SUB_STD_VTERM2 1.70

Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M



ACCURATE TECHNOLOGY CO.,LTD

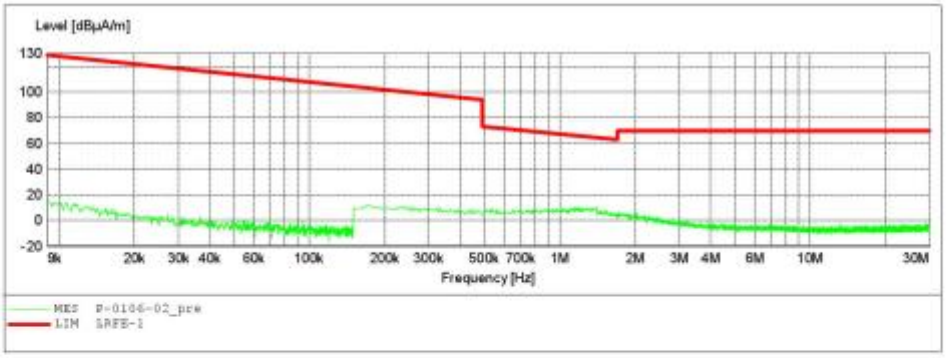
FCC Class B 3M Radiated

EUT:	Razor Headphones M/N:6278701
Manufacturer:	Primark Stores Limited
Operating Condition:	TX 2441MHz
Test Site:	2# Chamber
Operator:	LAN
Test Specification:	DC 3.7V
Comment:	X
Start of Test:	2016-1-6 /

SCAN TABLE: "LFRE Fin"

Short Description: _SUB_STD_VTERM2 1.70

Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M



ACCURATE TECHNOLOGY CO.,LTD

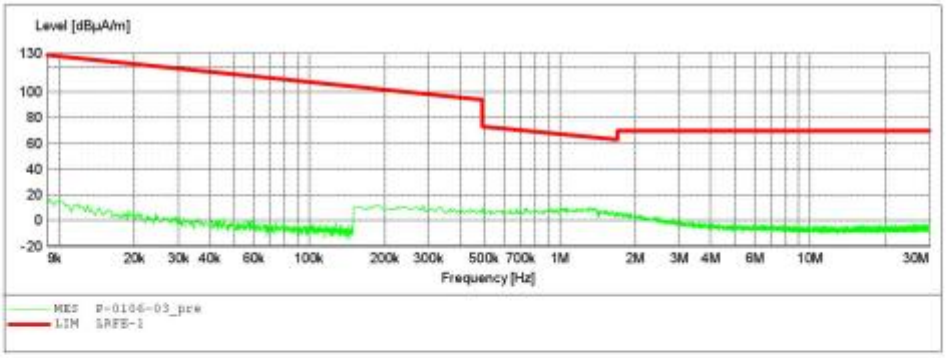
FCC Class B 3M Radiated

EUT:	Razor Headphones M/N:6278701
Manufacturer:	Primark Stores Limited
Operating Condition:	TX 2480MHz
Test Site:	2# Chamber
Operator:	LAN
Test Specification:	DC 3.7V
Comment:	X
Start of Test:	2016-1-6 /

SCAN TABLE: "LFRE Fin"

Short Description: _SUB_STD_VTERM2 1.70

Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M



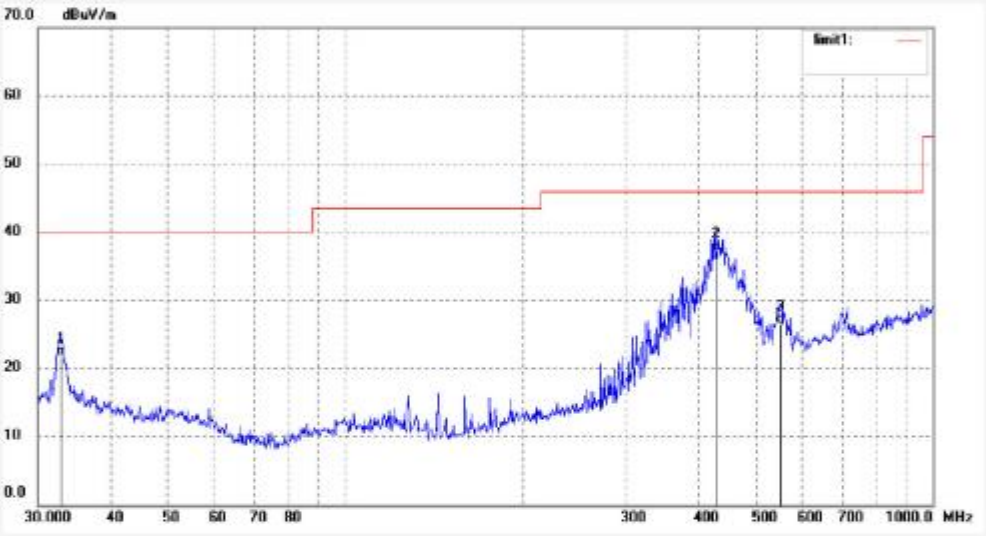
30MHz - 1GHz

ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg.A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: LGW2015 #2352	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 16/01/07/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Razor Headphones	Engineer Signature: LGWADE
Mode: TX 2402MHz	Distance: 3m
Model: 6278701	
Manufacturer: Primark Stores Limited	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	32.8637	31.16	-9.36	21.80	40.00	-18.20	QP			
2	428.0192	43.29	-6.09	37.20	46.00	-8.80	QP			
3	550.9479	30.06	-3.59	26.47	46.00	-19.53	QP			

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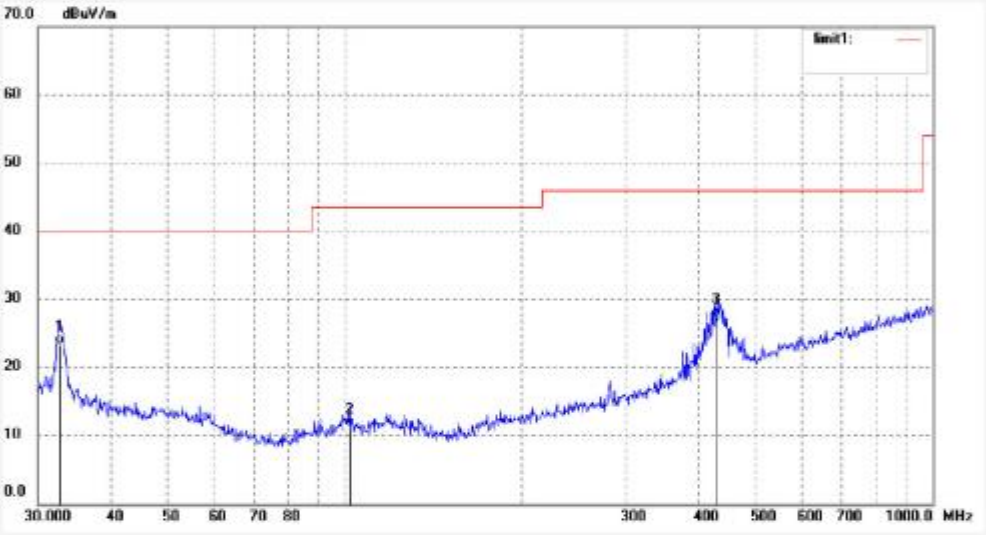
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: LGW2015 #2353	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 16/01/07/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Razor Headphones	Engineer Signature: LGWADE
Mode: TX 2402MHz	Distance: 3m
Model: 6278701	
Manufacturer: Primark Stores Limited	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	32.7486	32.27	-8.90	23.37	40.00	-16.63	QP			
2	101.6443	24.24	-13.00	11.24	43.50	-32.26	QP			
3	428.0192	33.50	-6.09	27.41	46.00	-18.59	QP			

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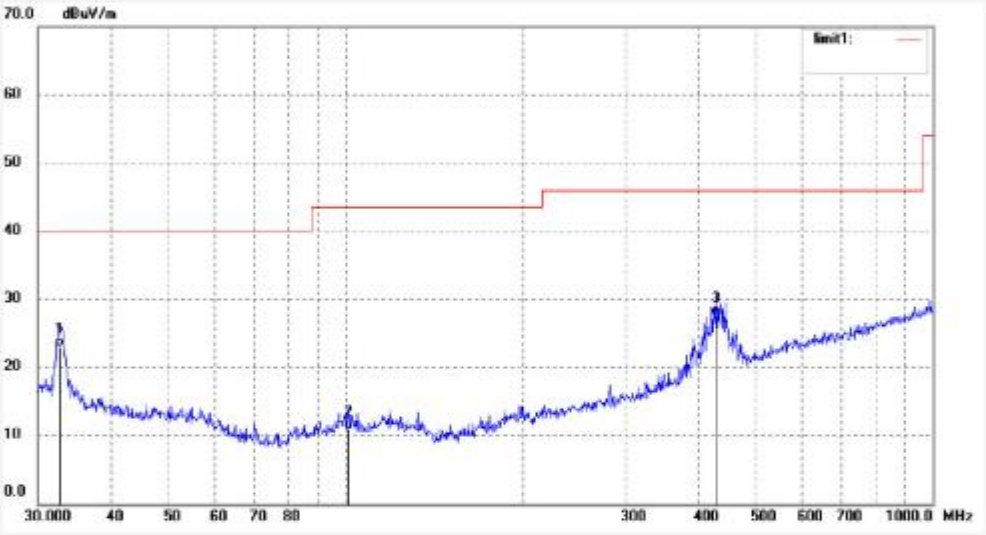
Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: LGW2015 #2354	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 16/01/07/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Razor Headphones	Engineer Signature: LGWADE
Mode: TX 2441MHz	Distance: 3m
Model: 6278701	
Manufacturer: Primark Stores Limited	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	32.7486	31.97	-8.90	23.07	40.00	-16.93	QP			
2	101.2883	23.95	-12.94	11.01	43.50	-32.49	QP			
3	428.0192	33.73	-6.09	27.64	46.00	-18.36	QP			

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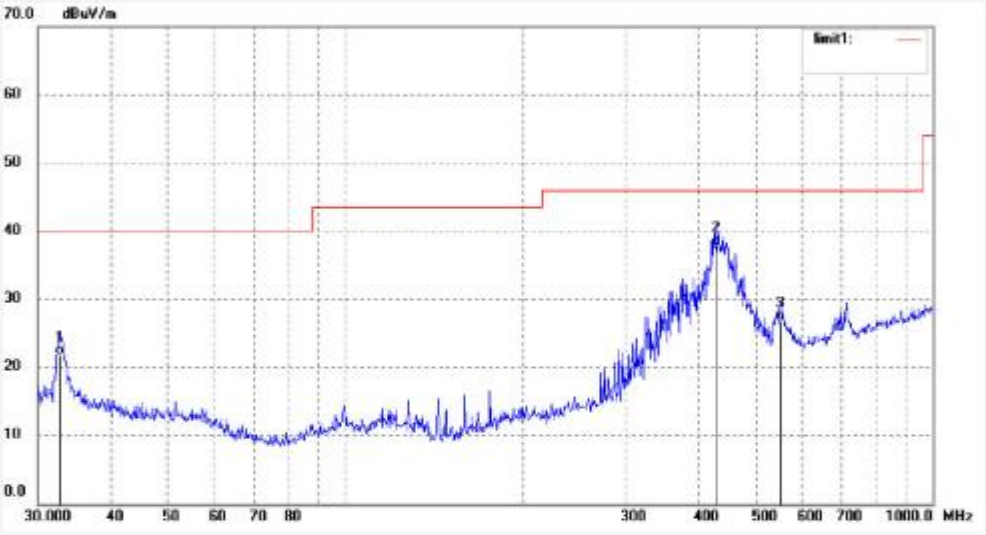
Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: LGW2015 #2355	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 16/01/07/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Razor Headphones	Engineer Signature: LGWADE
Mode: TX 2441MHz	Distance: 3m
Model: 6278701	
Manufacturer: Primark Stores Limited	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	32.7486	31.13	-9.35	21.78	40.00	-18.22	QP			
2	428.0192	43.98	-6.09	37.89	46.00	-8.11	QP			
3	550.9479	30.43	-3.59	26.84	46.00	-19.16	QP			

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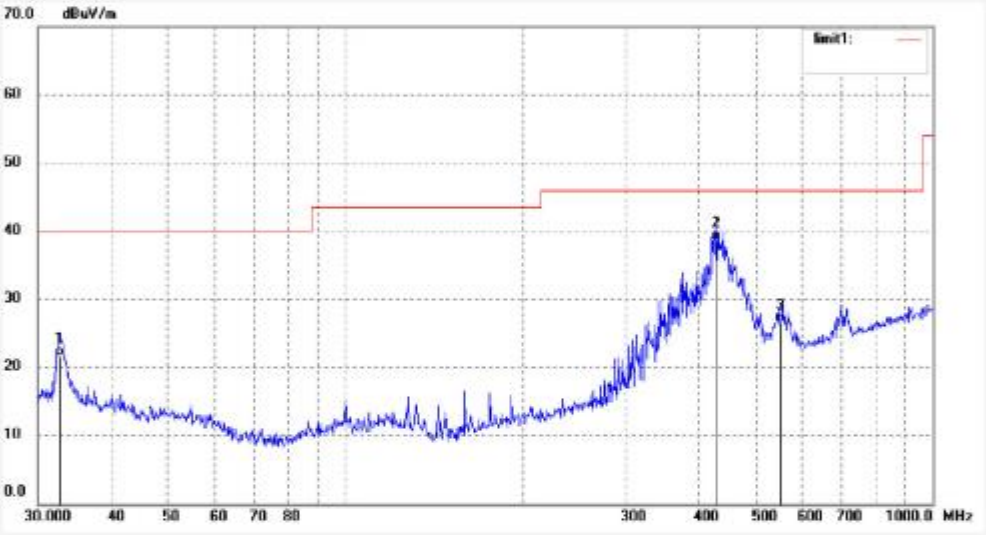
Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: LGW2015 #2356	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 16/01/07/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Razor Headphones	Engineer Signature: LGWADE
Mode: TX 2480MHz	Distance: 3m
Model: 6278701	
Manufacturer: Primark Stores Limited	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	32.7486	30.89	-9.35	21.54	40.00	-18.46	QP			
2	428.0192	44.76	-6.09	38.67	46.00	-7.33	QP			
3	550.9479	30.04	-3.59	26.45	46.00	-19.55	QP			

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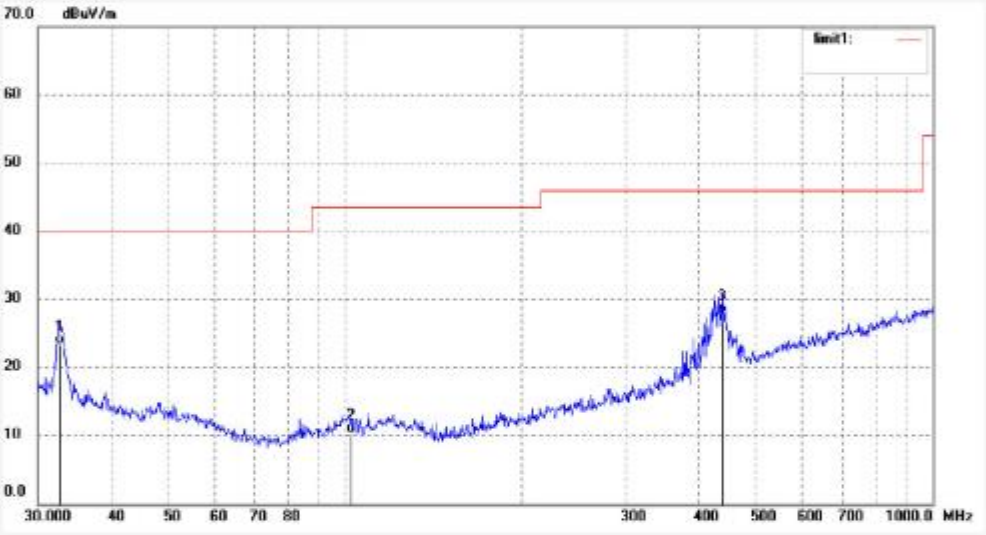
Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: LGW2015 #2357	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 16/01/07/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Razor Headphones	Engineer Signature: LGWADE
Mode: TX 2480MHz	Distance: 3m
Model: 6278701	
Manufacturer: Primark Stores Limited	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	32.7486	32.21	-8.90	23.31	40.00	-16.69	QP			
2	102.3597	23.51	-13.11	10.40	43.50	-33.10	QP			
3	437.1198	33.75	-5.91	27.84	46.00	-18.16	QP			

1GHz - 18GHz

ACCURATE TECHNOLOGY CO., LTD.
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Site: 1# Chamber
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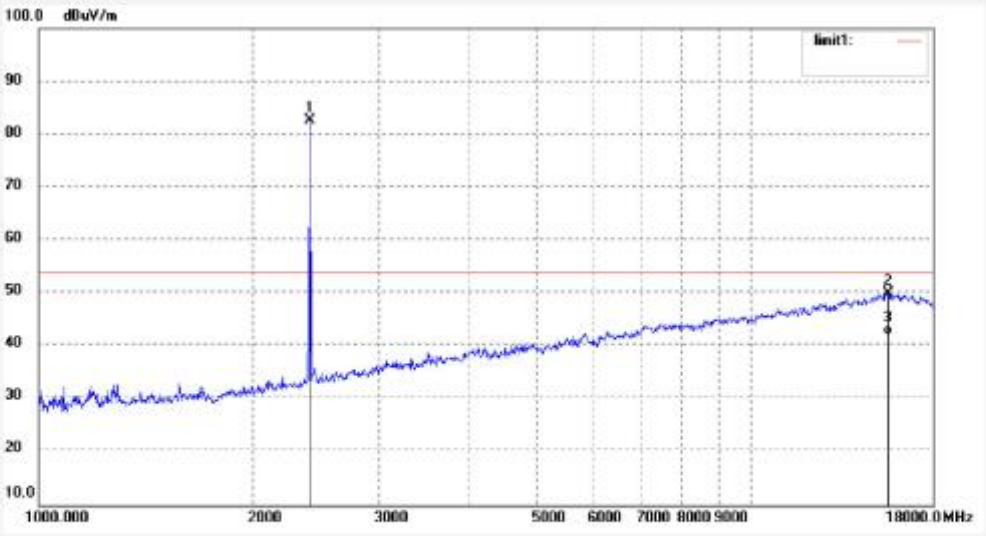
Fax:+86-0755-26503396

Job No.: Ian2015 #4060	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2015/12/24
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Razor Headphones	Engineer Signature: PEI
Mode: TX 2402MHz	Distance: 3m
Model: 6278701	
Manufacturer: Primark Stores Limited	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2402.000	89.97	-7.45	82.52	/	/	peak			
2	15577.025	9.85	40.08	49.93	74.00	-24.07	peak			
3	15577.025	1.92	40.08	42.00	54.00	-12.00	AVG			

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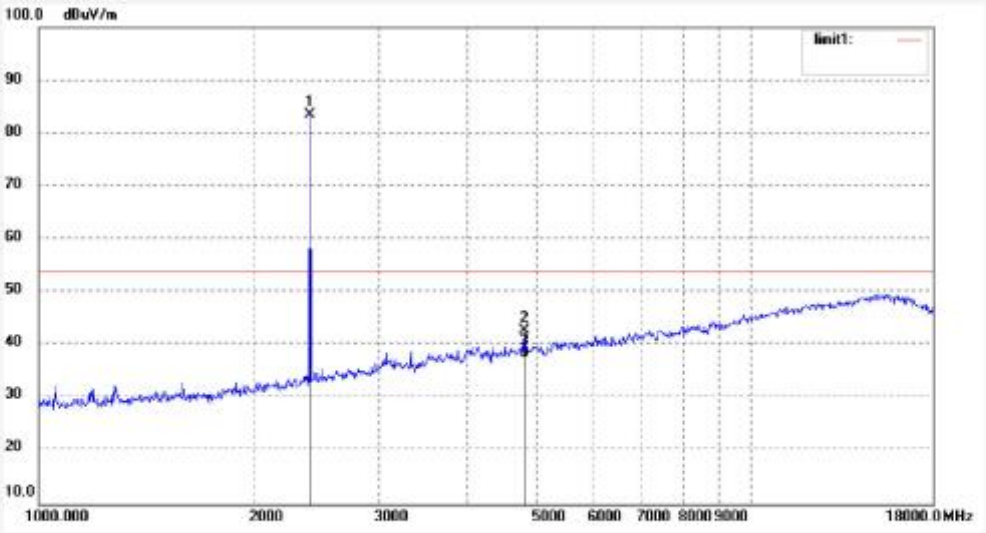
Job No.: Ian2015 #4061	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2015/12/24
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Razor Headphones	Engineer Signature: PEI
Mode: TX 2402MHz	Distance: 3m
Model: 6278701	
Manufacturer: Primark Stores Limited	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2402.000	90.88	-7.45	83.43	/	/	peak			
2	4804.022	42.98	-0.30	42.68	74.00	-31.32	peak			
3	4804.022	37.81	-0.30	37.51	54.00	-16.49	AVG			

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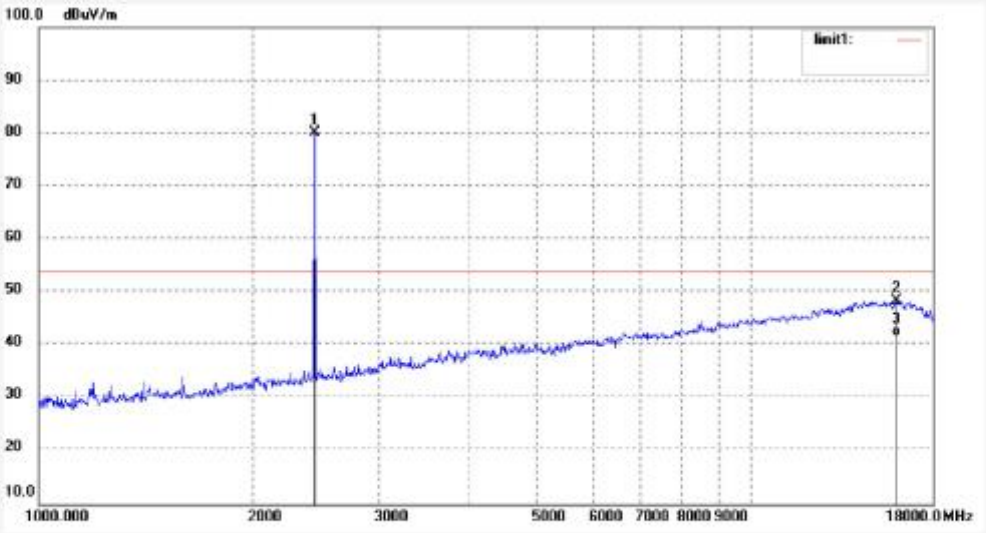
Job No.: Ian2015 #4064	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2015/12/24
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Razor Headphones	Engineer Signature: PEI
Mode: TX 2441MHz	Distance: 3m
Model: 6278701	
Manufacturer: Primark Stores Limited	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2441.000	87.46	-7.35	80.11	/	/	peak			
2	15988.020	8.42	40.00	48.42	74.00	-25.58	peak			
3	15988.020	1.56	40.00	41.56	54.00	-12.44	AVG			

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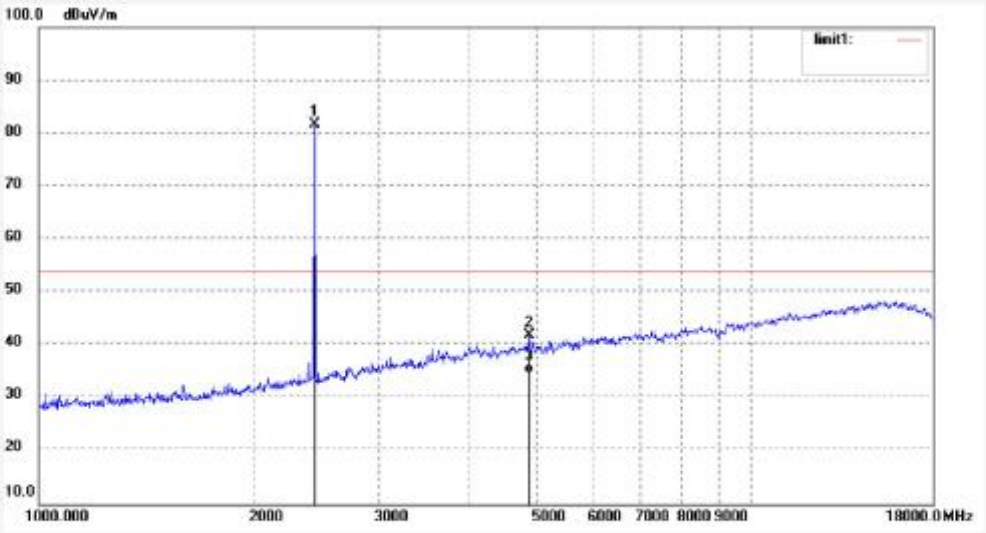
Job No.: Ian2015 #4065	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2015/12/24
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Razor Headphones	Engineer Signature: PEI
Mode: TX 2441MHz	Distance: 3m
Model: 6278701	
Manufacturer: Primark Stores Limited	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2441.000	89.08	-7.35	81.73	/	/	peak			
2	4882.019	41.59	0.14	41.73	74.00	-32.27	peak			
3	4882.019	34.46	0.14	34.60	54.00	-19.40	AVG			

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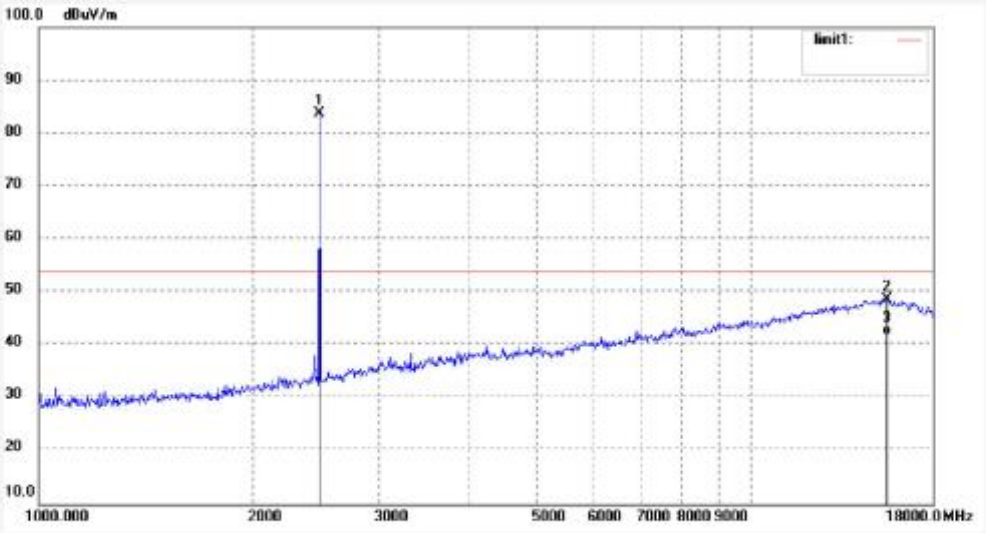
Job No.: Ian2015 #4066	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2015/12/24
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Razor Headphones	Engineer Signature: PEI
Mode: TX 2480MHz	Distance: 3m
Model: 6278701	
Manufacturer: Primark Stores Limited	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2480.000	91.00	-7.37	83.63	/	/	peak			
2	15532.026	8.53	40.09	48.62	74.00	-25.38	peak			
3	15532.026	1.78	40.09	41.87	54.00	-12.13	AVG			

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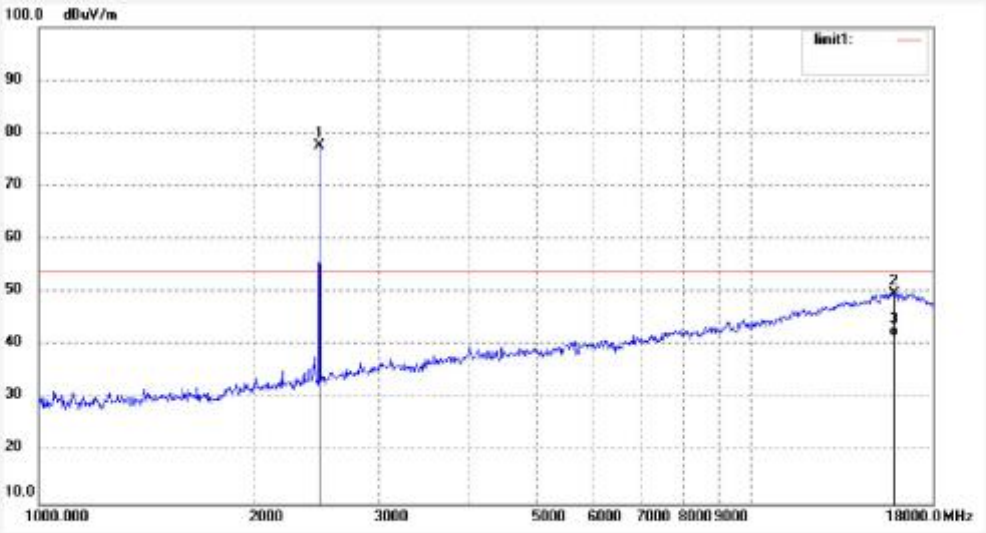
Job No.: Ian2015 #4067	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2015/12/24
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Razor Headphones	Engineer Signature: PEI
Mode: TX 2480MHz	Distance: 3m
Model: 6278701	
Manufacturer: Primark Stores Limited	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2480.000	84.90	-7.37	77.53	/	/	peak			
2	15896.023	9.70	40.02	49.72	74.00	-24.28	peak			
3	15896.023	1.62	40.02	41.64	54.00	-12.36	AVG			

18GHz - 26.5GHz

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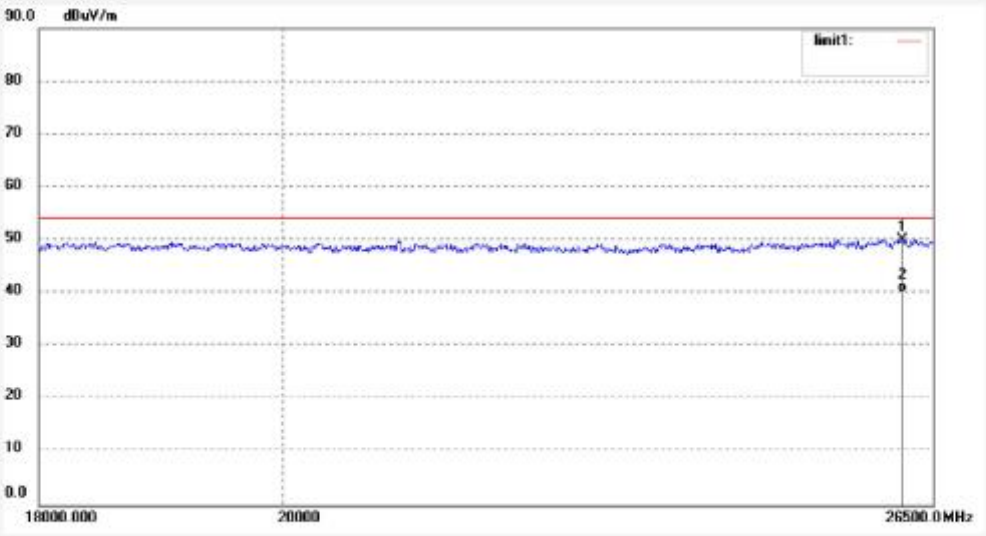
Job No.: Ian2015 #4070	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2015/12/24
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Razor Headphones	Engineer Signature: PEI
Mode: TX 2402MHz	Distance: 3m
Model: 6278701	
Manufacturer: Primark Stores Limited	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26153.799	33.00	17.13	50.13	74.00	-23.87	peak			
2	26153.799	23.10	17.13	40.23	54.00	-13.77	AVG			

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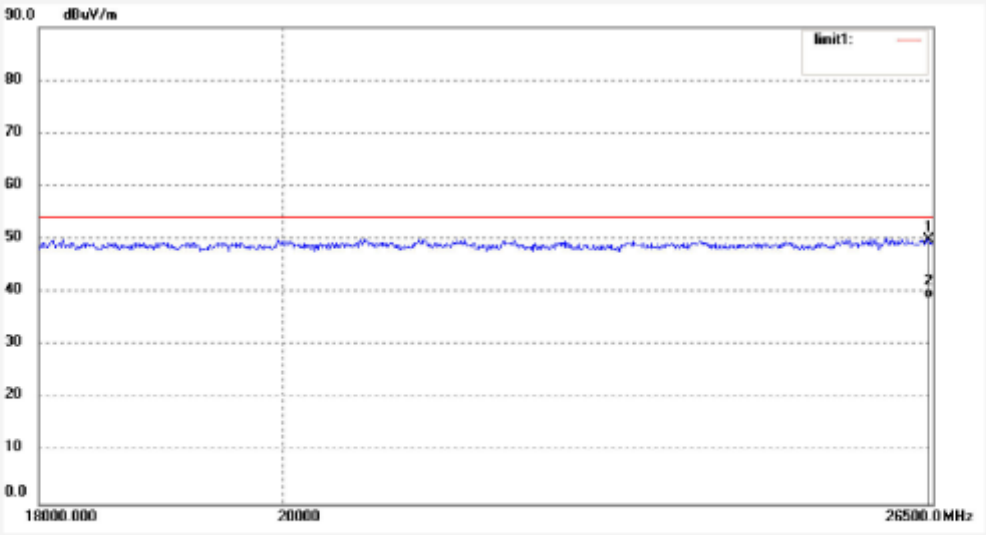
Job No.: Ian2015 #4071	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2015/12/24
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Razor Headphones	Engineer Signature: PEI
Mode: TX 2402MHz	Distance: 3m
Model: 6278701	
Manufacturer: Primark Stores Limited	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26448.802	32.88	16.93	49.81	74.00	-24.19	peak			
2	26448.802	21.95	16.93	38.88	54.00	-15.12	AVG			

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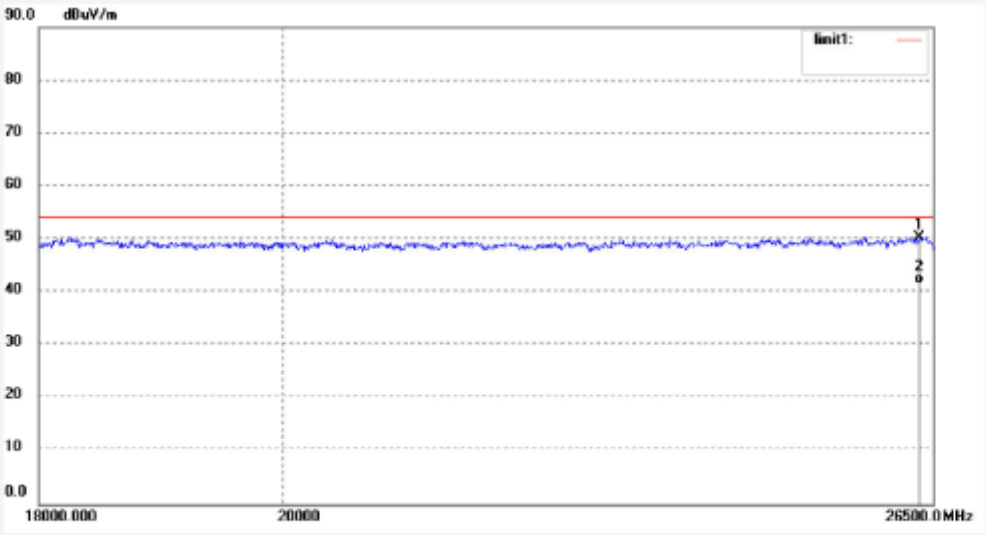
Job No.: Ian2015 #4072	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2015/12/24
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Razor Headphones	Engineer Signature: PEI
Mode: TX 2441MHz	Distance: 3m
Model: 6278701	
Manufacturer: Primark Stores Limited	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26346.703	33.30	17.00	50.30	74.00	-23.70	peak			
2	26346.703	24.53	17.00	41.53	54.00	-12.47	AVG			

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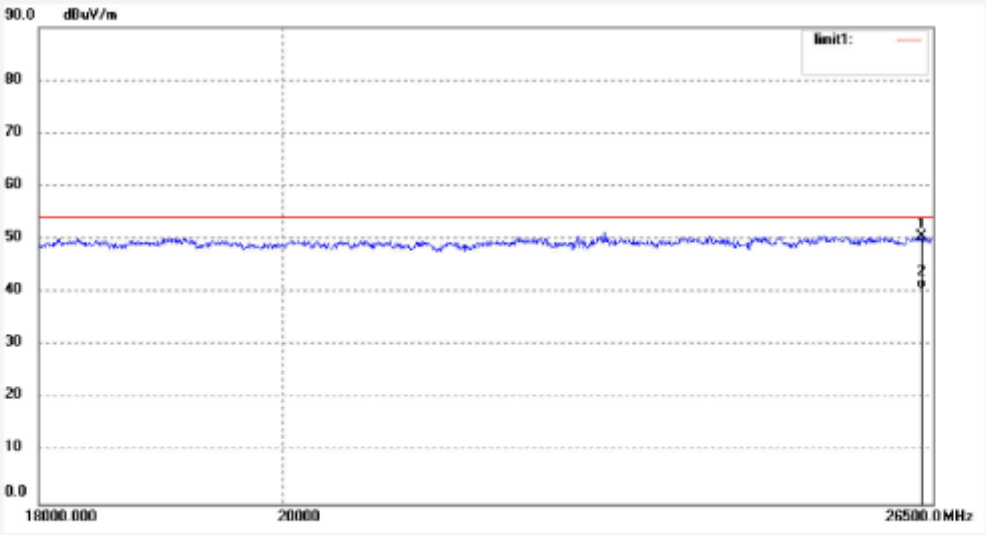
Job No.: Ian2015 #4073	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2015/12/24
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Razor Headphones	Engineer Signature: PEI
Mode: TX 2441MHz	Distance: 3m
Model: 6278701	
Manufacturer: Primark Stores Limited	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26367.091	33.42	16.99	50.41	74.00	-23.59	peak			
2	26367.091	23.58	16.99	40.57	54.00	-13.43	AVG			

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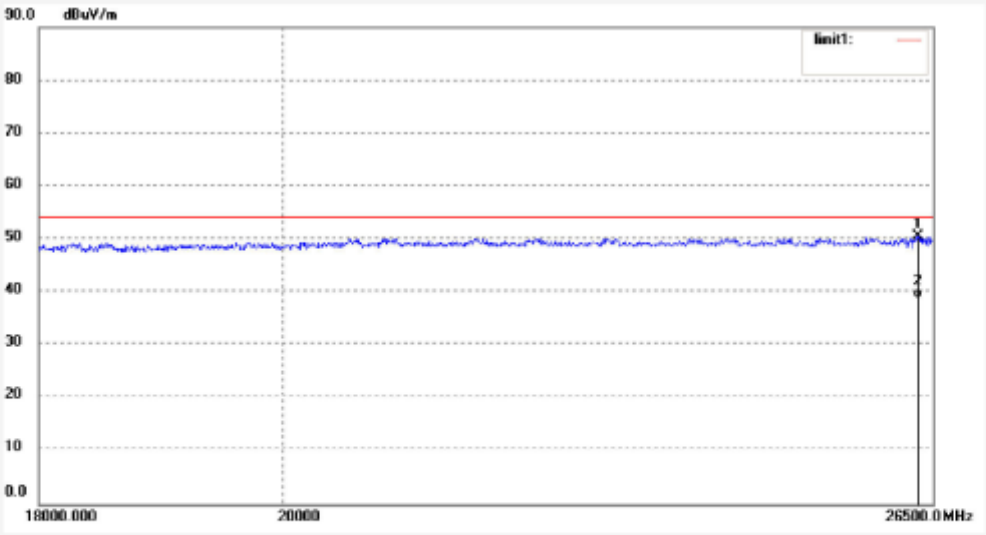
Job No.: Ian2015 #4074	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2015/12/24
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Razor Headphones	Engineer Signature: PEI
Mode: TX 2480MHz	Distance: 3m
Model: 6278701	
Manufacturer: Primark Stores Limited	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26326.330	33.56	17.02	50.58	74.00	-23.42	peak			
2	26326.330	21.90	17.02	38.92	54.00	-15.08	AVG			

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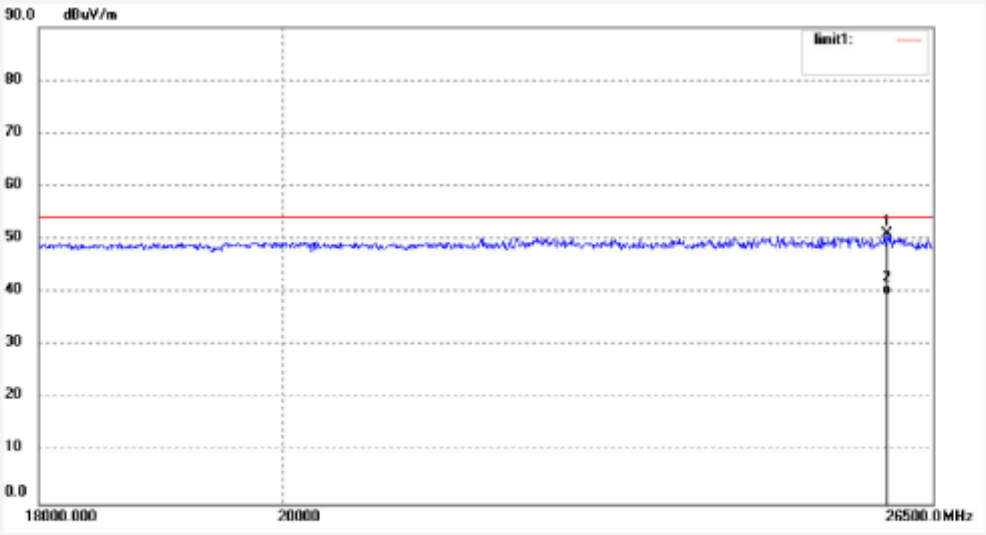
Job No.: Ian2015 #4075	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2015/12/24
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Razor Headphones	Engineer Signature: PEI
Mode: TX 2480MHz	Distance: 3m
Model: 6278701	
Manufacturer: Primark Stores Limited	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	25982.398	33.75	17.24	50.99	74.00	-23.01	peak			
2	25982.398	22.31	17.24	39.55	54.00	-14.45	AVG			

Appendix B.2: Test Plots of Band Edge (Radiated)

Low Channel

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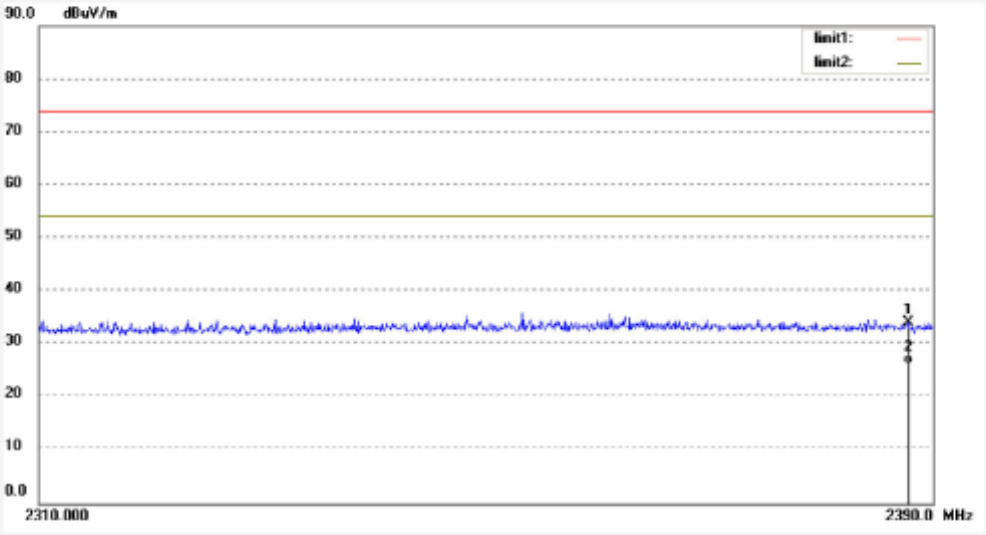
Job No.: Ian2015 #4062	Polarization: Horizontal
Standard: FCC (Band Edge)	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2015/12/24
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Razor Headphones	Engineer Signature: PEI
Mode: TX 2402MHz	Distance: 3m
Model: 6278701	
Manufacturer: Primark Stores Limited	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2387.760	41.53	-7.54	33.99	74.00	-40.01	peak			
2	2387.760	33.68	-7.54	26.14	54.00	-27.86	AVG			

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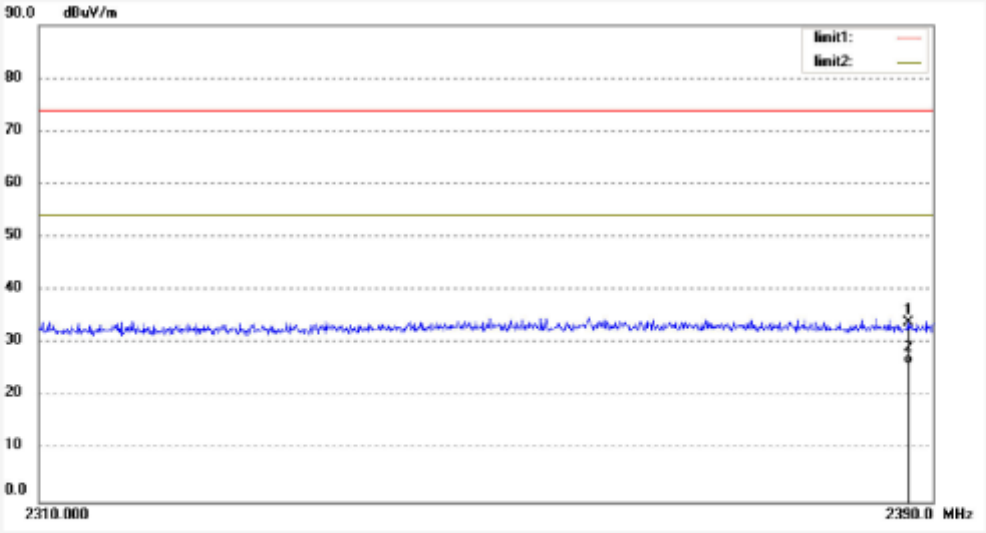
Job No.: Ian2015 #4063	Polarization: Vertical
Standard: FCC (Band Edge)	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2015/12/24
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Razor Headphones	Engineer Signature: PEI
Mode: TX 2402MHz	Distance: 3m
Model: 6278701	
Manufacturer: Primark Stores Limited	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2387.760	41.47	-7.54	33.93	74.00	-40.07	peak			
2	2387.760	33.59	-7.54	26.05	54.00	-27.95	AVG			

High Channel

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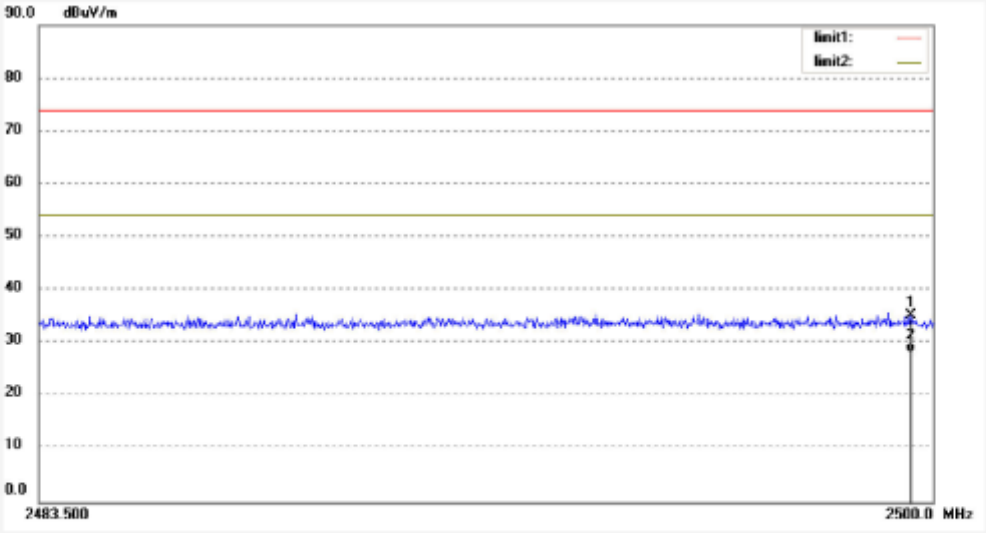
Job No.: Ian2015 #4068	Polarization: Vertical
Standard: FCC (Band Edge)	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2015/12/24
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Razor Headphones	Engineer Signature: PEI
Mode: TX 2480MHz	Distance: 3m
Model: 6278701	
Manufacturer: Primark Stores Limited	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2499.588	42.57	-7.40	35.17	74.00	-38.83	peak			
2	2499.588	35.65	-7.40	28.25	54.00	-25.75	AVG			

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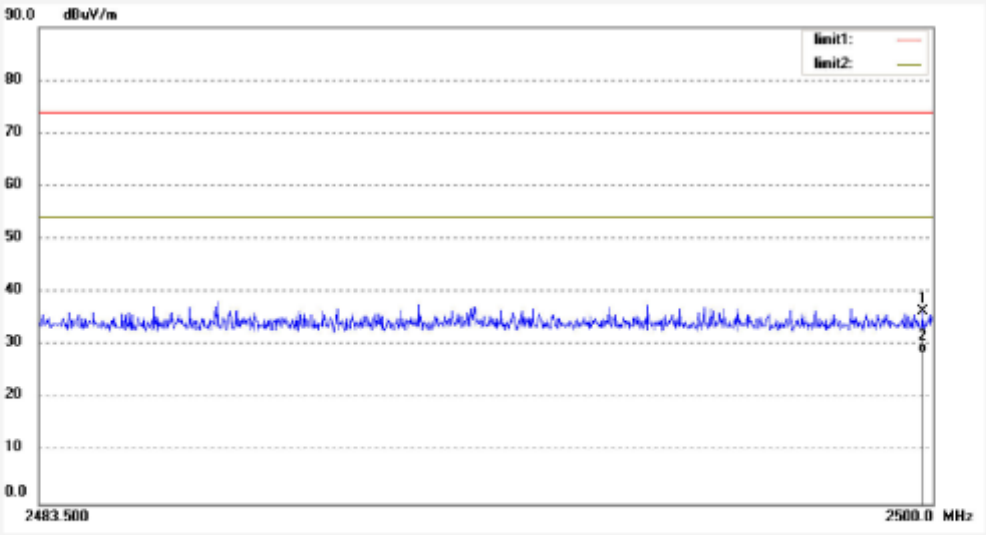
Job No.: Ian2015 #4069	Polarization: Horizontal
Standard: FCC (Band Edge)	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2015/12/24
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Razor Headphones	Engineer Signature: PEI
Mode: TX 2480MHz	Distance: 3m
Model: 6278701	
Manufacturer: Primark Stores Limited	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2499.802	43.71	-7.40	36.31	74.00	-37.69	peak			
2	2499.802	35.95	-7.40	28.55	54.00	-25.45	AVG			

Appendix B.3: Test Plots of Conducted Emission

C Mode

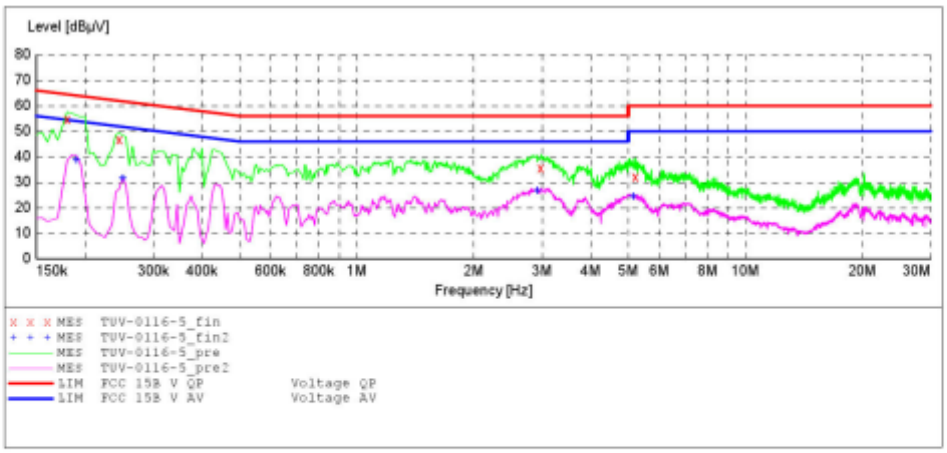
ACCURATE TECHNOLOGY CO.,LTD

CONDUCTED EMISSION STANDARD FCC PART 15 B

```
EUT:                  Razor Headphones M/N:6278701
Manufacturer:         Primark Stores Limited
Operating Condition:  BT
Test Site:            1#Shielding Room
Operator:             LGWADE
Test Specification:   N 120V/60Hz
Comment:
Start of Test:        1/16/2016 /
```

SCAN TABLE: "V 9K-30MHz fin"

```
  Short Description:              _SUB_STD_VTERM2 1.70
  Start      Stop       Step      Detector  Meas.     IF       Transducer
  Frequency  Frequency  Width               Time      Bandw.
  9.0 kHz    150.0 kHz  100.0 Hz  QuasiPeak 1.0 s     200 Hz   NSLK8126 2008
                                  Average
  150.0 kHz  30.0 MHz   5.0 kHz   QuasiPeak 1.0 s     9 kHz    NSLK8126 2008
                                  Average
```



MEASUREMENT RESULT: "TUV-0116-5_fin"

1/16/2016

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.180000	54.60	10.5	65	9.9	QP	N	GND
0.245000	46.60	10.6	62	15.3	QP	N	GND
2.980000	35.40	11.1	56	20.6	QP	N	GND
5.220000	32.10	11.2	60	27.9	QP	N	GND

MEASUREMENT RESULT: "TUV-0116-5_fin2"

1/16/2016

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.190000	38.70	10.5	54	15.3	AV	N	GND
0.250000	31.50	10.6	52	20.3	AV	N	GND
2.920000	26.50	11.1	46	19.5	AV	N	GND
5.140000	24.40	11.2	50	25.6	AV	N	GND

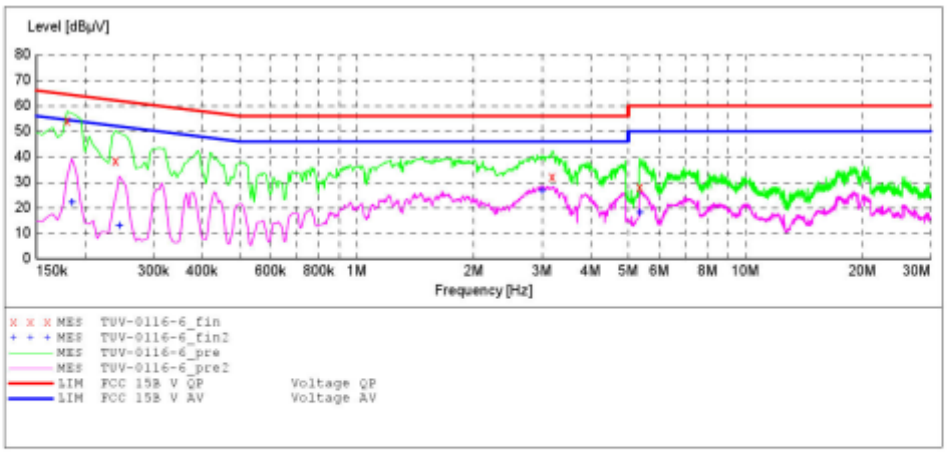
ACCURATE TECHNOLOGY CO.,LTD

CONDUCTED EMISSION STANDARD FCC PART 15 B

```
EUT:                  Razor Headphones M/N:6278701
Manufacturer:         Primark Stores Limited
Operating Condition:  BT
Test Site:            1#Shielding Room
Operator:             LGWADE
Test Specification:   L 120V/60Hz
Comment:
Start of Test:        1/16/2016 /
```

SCAN TABLE: "V 9K-30MHz fin"

```
  Short Description:                 _SUB_STD_VTERM2 1.70
  Start      Stop       Step        Detector  Meas.     IF       Transducer
  Frequency  Frequency  Width                 Time      Bandw.
  9.0 kHz    150.0 kHz  100.0 Hz    QuasiPeak 1.0 s     200 Hz   NSLK8126 2008
                                     Average
  150.0 kHz  30.0 MHz   5.0 kHz     QuasiPeak 1.0 s     9 kHz    NSLK8126 2008
                                     Average
```



MEASUREMENT RESULT: "TUV-0116-6_fin"

```
1/16/2016
   Frequency     Level   Transd   Limit   Margin   Detector   Line    PE
         MHz      dBµV      dB    dBµV       dB

    0.180000     54.10    10.5      65     10.4   QP         L1      GND
    0.240000     38.20    10.6      62     23.9   QP         L1      GND
    3.190000     31.90    11.1      56     24.1   QP         L1      GND
    5.360000     28.10    11.2      60     31.9   QP         L1      GND
```

MEASUREMENT RESULT: "TUV-0116-6_fin2"

```
1/16/2016
   Frequency     Level   Transd   Limit   Margin   Detector   Line    PE
         MHz      dBµV      dB    dBµV       dB

    0.185000     21.90    10.5      54     32.4   AV         L1      GND
    0.245000     13.00    10.6      52     38.9   AV         L1      GND
    3.000000     26.50    11.1      46     19.5   AV         L1      GND
    5.360000     17.90    11.2      50     32.1   AV         L1      GND
```

D Mode

ACCURATE TECHNOLOGY CO.,LTD

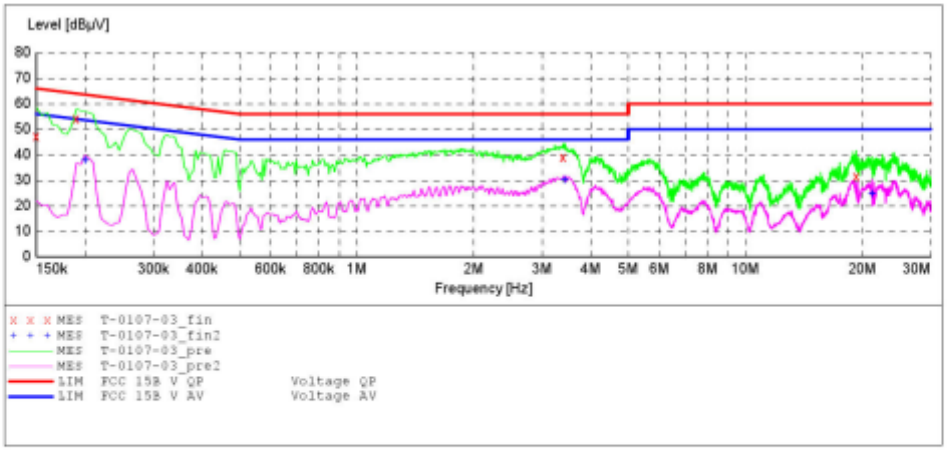
CONDUCTED EMISSION STANDARD FCC PART 15 B

```
EUT:                  Razor Headphones M/N:6278701
Manufacturer:         Primark Stores Limited
Operating Condition:  Charging
Test Site:            1#Shielding Room
Operator:             LGWADE
Test Specification:   L 120V/60Hz
Comment:              Mains Port
Start of Test:        1/7/2016 /
```

SCAN TABLE: "V 9K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70

Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak Average	1.0 s	200 Hz	NSLK8126 2008
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak Average	1.0 s	9 kHz	NSLK8126 2008



MEASUREMENT RESULT: "T-0107-03_fin"

1/7/2016

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.150000	47.20	10.5	66	18.8	QP	L1	GND
0.190000	54.00	10.5	64	10.0	QP	L1	GND
3.400000	38.90	11.1	56	17.1	QP	L1	GND
19.315000	31.60	11.4	60	28.4	QP	L1	GND

MEASUREMENT RESULT: "T-0107-03_fin2"

1/7/2016

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.200000	37.80	10.5	54	15.8	AV	L1	GND
3.430000	30.00	11.1	46	16.0	AV	L1	GND
21.205000	24.50	11.4	50	25.5	AV	L1	GND

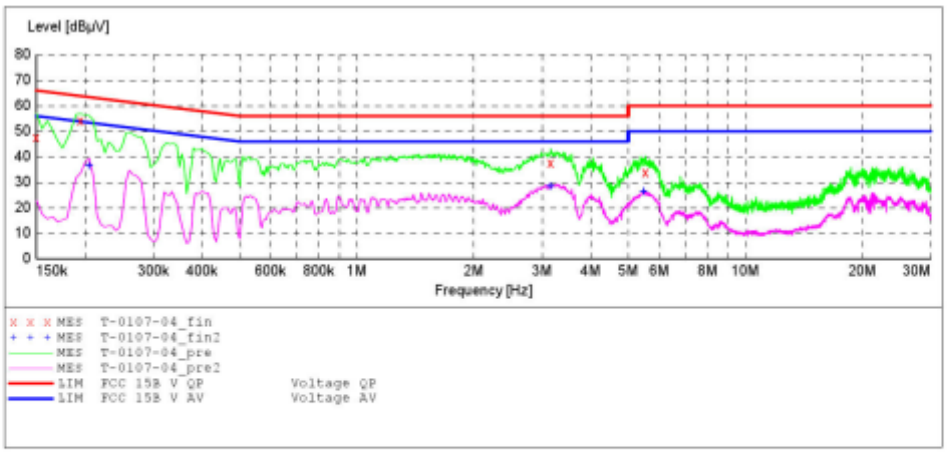
ACCURATE TECHNOLOGY CO.,LTD

CONDUCTED EMISSION STANDARD FCC PART 15 B

```
EUT:                  Razor Headphones M/N:6278701
Manufacturer:         Primark Stores Limited
Operating Condition:  Charging
Test Site:            1#Shielding Room
Operator:             LGWADE
Test Specification:   N 120V/60Hz
Comment:              Mains Port
Start of Test:        1/7/2016 /
```

SCAN TABLE: "V 9K-30MHz fin"

```
  Short Description:                  _SUB_STD_VTERM2 1.70
  Start      Stop       Step        Detector  Meas.     IF       Transducer
  Frequency  Frequency  Width                 Time      Bandw.
  9.0 kHz    150.0 kHz  100.0 Hz    QuasiPeak 1.0 s     200 Hz   NSLK8126 2008
                                     Average
  150.0 kHz  30.0 MHz   5.0 kHz     QuasiPeak 1.0 s     9 kHz    NSLK8126 2008
                                     Average
```



MEASUREMENT RESULT: "T-0107-04_fin"

1/7/2016

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.150000	47.60	10.5	66	18.4	QP	N	GND
0.195000	54.00	10.5	64	9.8	QP	N	GND
3.160000	37.50	11.1	56	18.5	QP	N	GND
5.540000	33.90	11.2	60	26.1	QP	N	GND

MEASUREMENT RESULT: "T-0107-04_fin2"

1/7/2016

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.205000	36.20	10.5	53	17.2	AV	N	GND
3.150000	28.30	11.1	46	17.7	AV	N	GND
5.470000	26.40	11.2	50	23.6	AV	N	GND

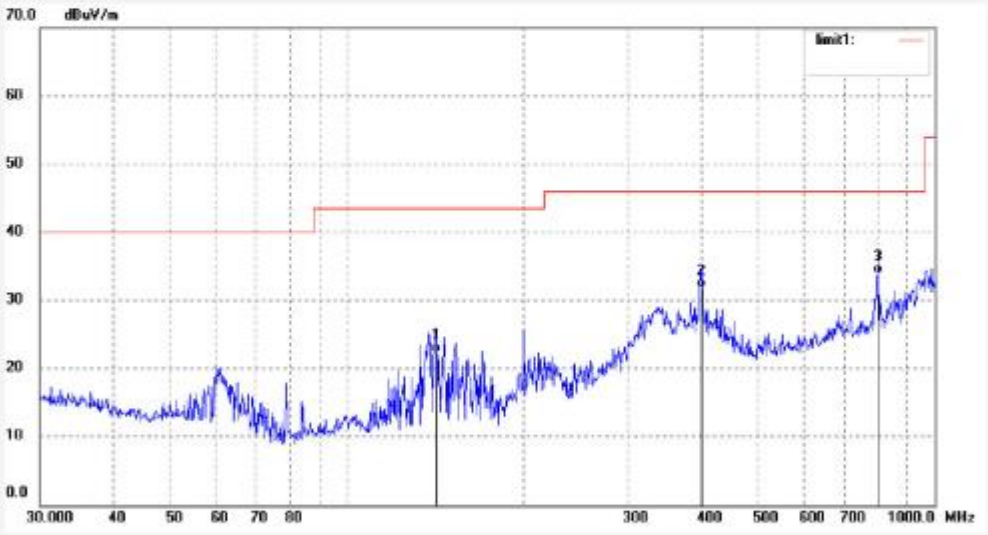
Appendix B.4: Test Plots of Radiated Emission

D Mode

ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg.A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China
Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: LGW2015 #2318	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 16/01/05/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Razor Headphones	Engineer Signature: LGWADE
Mode: Charging	Distance: 3m
Model: 6278701	
Manufacturer: Primark Stores Limited	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	141.8262	37.26	-14.92	22.34	43.50	-21.16	QP			
2	400.4318	38.49	-6.81	31.68	46.00	-14.32	QP			
3	798.9796	33.88	0.02	33.90	46.00	-12.10	QP			

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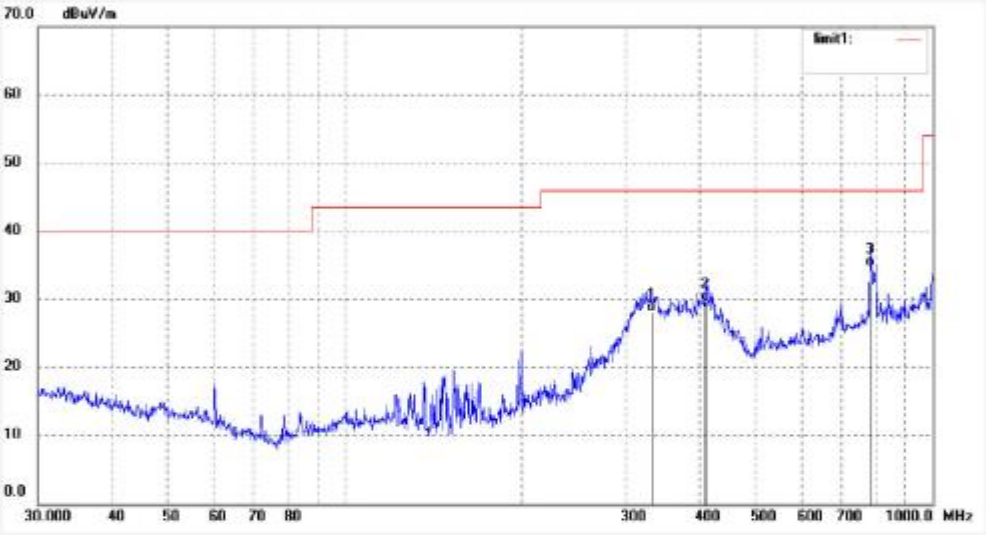
Fax:+86-0755-26503396

Job No.: LGW2015 #2319	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 16/01/05/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Razor Headphones	Engineer Signature: LGWADE
Mode: Charging	Distance: 3m
Model: 6278701	
Manufacturer: Primark Stores Limited	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	332.5187	36.43	-8.30	28.13	46.00	-17.87	QP			
2	410.3824	36.28	-6.55	29.73	46.00	-16.27	QP			
3	782.3452	35.07	-0.37	34.70	46.00	-11.30	QP			

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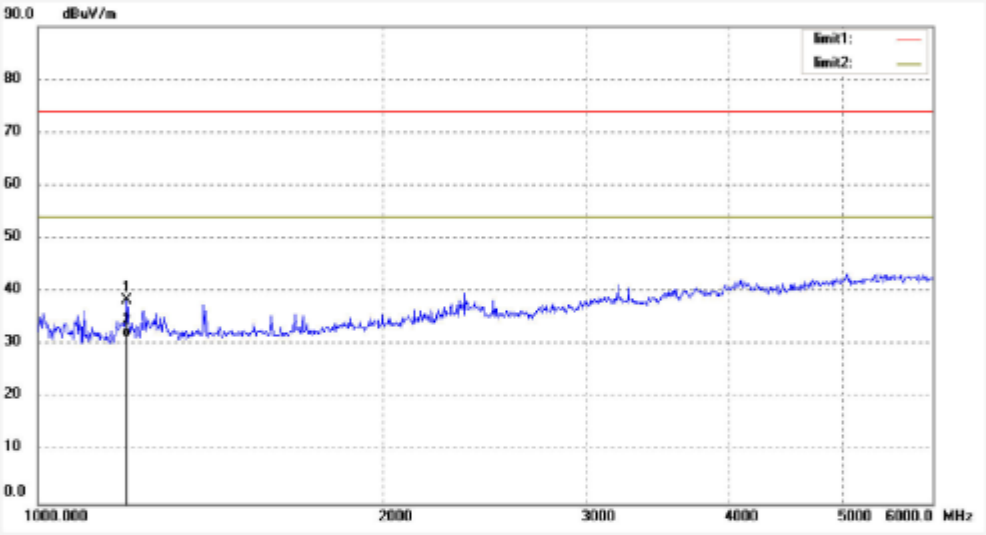
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: LGW2015 #2322	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 16/01/05/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Razor Headphones	Engineer Signature: LGWADE
Mode: Charging	Distance: 3m
Model: 6278701	
Manufacturer: Primark Stores Limited	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1194.090	50.81	-12.50	38.31	74.00	-35.69	peak			
2	1194.090	43.95	-12.50	31.45	54.00	-22.55	AVG			

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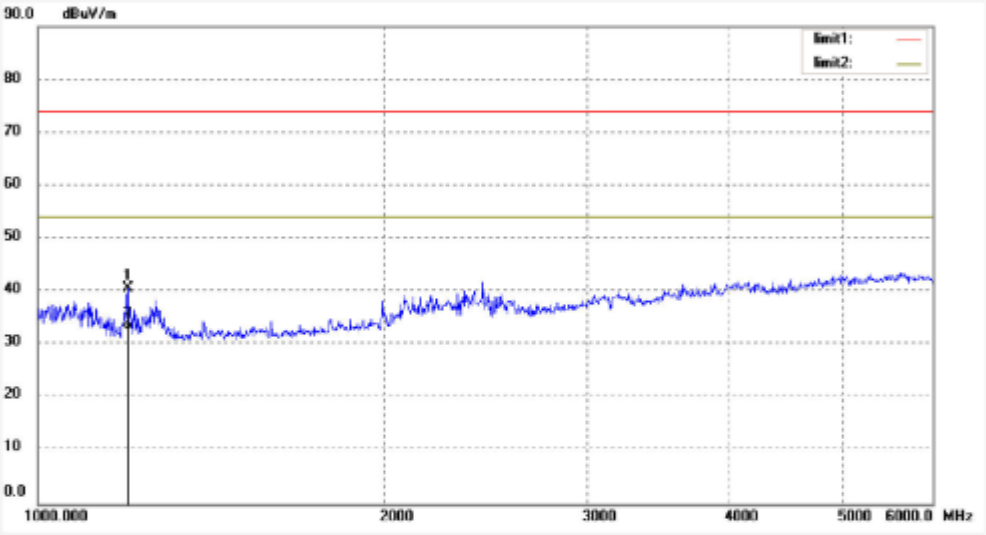
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: LGW2015 #2323	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 16/01/05/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Razor Headphones	Engineer Signature: LGWADE
Mode: Charging	Distance: 3m
Model: 6278701	
Manufacturer: Primark Stores Limited	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1196.231	53.14	-12.50	40.64	74.00	-33.36	peak			
2	1196.231	45.23	-12.50	32.73	54.00	-21.27	AVG			