

Application for FCC Certification
On behalf of

Hisense Electric Co., Ltd.

Product Name: Remote Control

Model No.: ERF6C11

FCC ID: W9HBRCB0005

Prepared For : Hisense Electric Co., Ltd.
No.218 Qianwangang Road, Economy & Technology
Development Zone, Qingdao, China

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Report No. : ACI-F14013
Date of Test : Jan. 29 – Feb. 12, 2014
Date of Report : Feb. 13, 2014

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TEST REPORT FOR FCC CERTIFICATE

Applicant : Hisense Electric Co., Ltd.

Manufacturer : Hisense Electric Co., Ltd.

EUT Description : Remote Control

(A) Model No. : ERF6C11

(B) Power Supply : DC 3V (AA Battery*2)

(C) Test Voltage : DC 3V

Test Procedure Used:

*FCC RULES AND REGULATIONS PART 15 SUBPART C OCTOBER 2013
AND ANSI C63.4-2003*

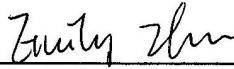
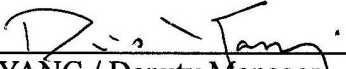
The device described above is tested by Audix Technology (Shanghai) Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C limits.

The test results are contained in this test report and Audix Technology (Shanghai) Co., Ltd. is assumed full responsibility for the accuracy and completeness of these measurements. This report also shows that the EUT (M/N: ERF6C11), which was tested on Jan. 29 – Feb. 12, 2014 is technically compliance with the FCC limits.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Audix Technology (Shanghai) Co., Ltd.

This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

Date of Test : Jan. 29 – Feb. 12, 2014 Date of Report : Feb. 13, 2014

Producer : 
EMILY ZHU / AssistantReview : 
DIO YANG / Deputy Manager

 For and on behalf of
Audix Technology (Shanghai) Co., Ltd.

Signatory : 
Authorized Signature EMC SAMMY CHEN / Deputy Manager

1 SUMMARY OF STANDARDS AND RESULTS

1.1 Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below:

Description / Test Item	Test Standard	Results	Meets Limit
EMISSION			
Conducted Emission Measurement	FCC RULES AND REGULATIONS PART 15 SUBPART C October 2013 AND ANSI C63.4:2003	N/A	15.207
Spurious Radiated Emissions Measurement	FCC RULES AND REGULATIONS PART 15 SUBPART C October 2013 AND ANSI C63.4:2003 AND DA 00-705	Pass	15.209(a) 15.205(a)(c)
20 dB Bandwidth Measurement	FCC RULES AND REGULATIONS PART 15 SUBPART C October 2013 AND DA 00-705	Pass	15.247(a)(1)
Peak Output Power Measurement	FCC RULES AND REGULATIONS PART 15 SUBPART C October 2013 AND DA 00-705	Pass	15.247(b)(1)
Spurious RF Conducted Emissions Measurement	FCC RULES AND REGULATIONS PART 15 SUBPART C October 2013 AND DA 00-705	Pass	15.247(d)
Band-edge Compliance of RF Conducted Emissions Measurement	FCC RULES AND REGULATIONS PART 15 SUBPART C October 2013 AND DA 00-705	Pass	15.247(d)
Number of Hopping Frequencies Measurement	FCC RULES AND REGULATIONS PART 15 SUBPART C October 2013 AND DA 00-705	Pass	15.247(a)(1)
Carrier Frequency Separation Measurement	FCC RULES AND REGULATIONS PART 15 SUBPART C October 2013 AND DA 00-705	Pass	15.247(a)(1)
Dwell Time Measurement	FCC RULES AND REGULATIONS PART 15 SUBPART C October 2013 AND DA 00-705	Pass	15.247(a)(1)
N/A is an abbreviation for Not Applicable.			

2 GENERAL INFORMATION

2.1 Description of Equipment Under Test

Description	:	Remote Control
Model Number	:	ERF6C11
Type of EUT	:	☒ Production ☐ Pre-product ☐ Pro-type
Radio Tech	:	Bluetooth
Freq. Band	:	2402 MHz ~ 2480 MHz Total 79 Channels:
Tested Freq.	:	2402 MHz (Channel 00) 2441 MHz (Channel 39) 2480 MHz (Channel 78)
Antenna Type	:	iron antenna
Antenna Gain	:	-2.0 dBi
RF Test Offset	:	cable loss 3dB
Applicant	:	Hisense Electric Co., Ltd. No.218 Qianwangang Road, Economy & Technology Development Zone, Qingdao, China
Manufacturer	:	Hisense Electric Co., Ltd. No.218 Qianwangang Road, Economy & Technology Development Zone, Qingdao, China

2.2 Description of Test Facility

Site Description (Semi-Anechoic Chamber) : Sept. 17, 1998 file on
Mar 16, 2012 Renewed
Federal Communications Commission
FCC Engineering Laboratory
7435 Oakland Mills Road
Columbia, MD 21046, USA

Name of Firm : Audix Technology (Shanghai) Co., Ltd.

Site Location : 3 F 34 Bldg 680 Guiping Rd.,
Caohejing Hi-Tech Park,
Shanghai 200233, China

FCC registration Number : 91789

Accredited by NVLAP, Lab Code : 200371-0

2.3 Measurement Uncertainty

Radiated Emission Expanded Uncertainty (30-200MHz):
U = 4.17dB (Horizontal)
U = 4.02dB (Vertical)

Radiated Emission Expanded Uncertainty (200M-1GHz):
U = 3.38dB (Horizontal)
U = 3.28dB (Vertical)

Radiated Emission Expanded Uncertainty (Above 1GHz):
U= 4.68 dB (Horizontal)
U= 4.87 dB (Vertical)

20 dB Bandwidth Expanded Uncertainty : U = $\pm 1 \times 10^{-8}$ MHz

Peak Output Power Expanded Uncertainty : U = ± 1.56 dB

Spurious RF Conducted Emissions Expanded Uncertainty : U = ± 1.20 dB

3 RADIATED EMISSION TEST

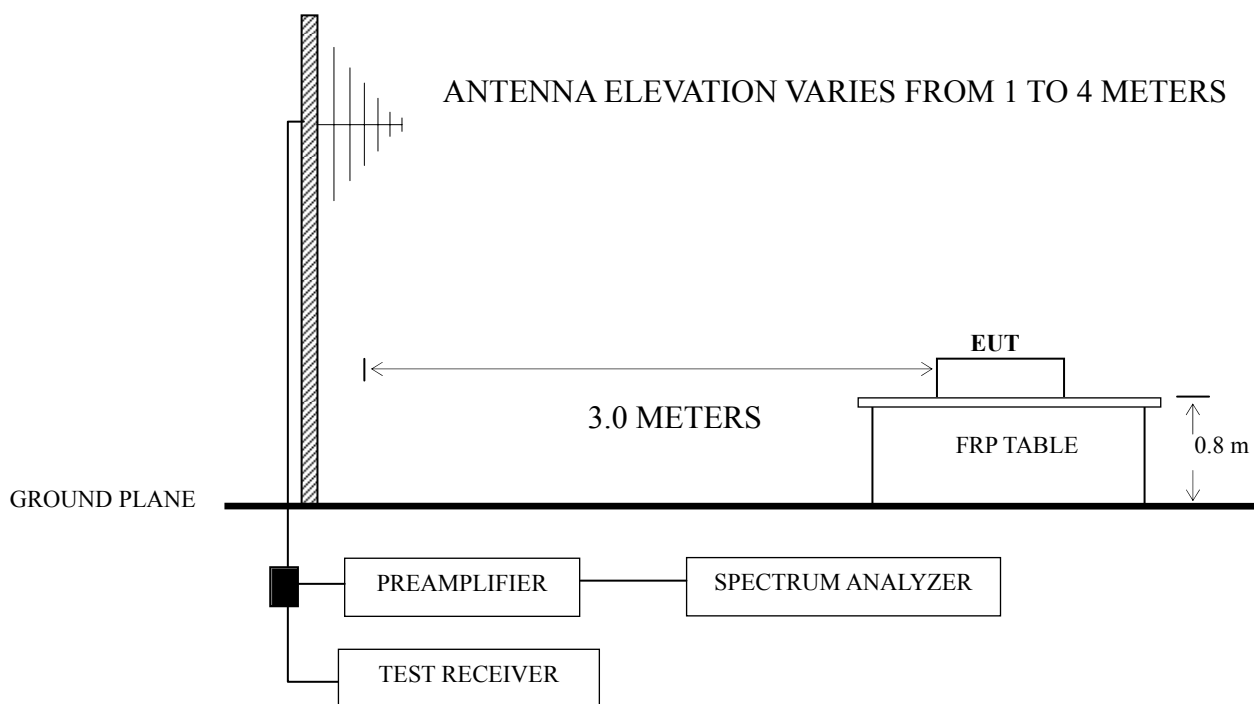
3.1 Test Equipment

The following test equipment are used during the radiated emission test in a semi-anechoic chamber:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Preamplifier	Agilent	8447D	2944A10548	Sep 18, 2013	Mar 17, 2014
2.	Preamplifier	HP	8449B	3008A00864	Mar 20, 2013	Mar 19, 2014
3.	Spectrum Analyzer	Agilent	E7405A	MY45106600	Nov 11, 2013	Nov 10, 2014
4.	Test Receiver	R&S	ESCI	101302	Sep 03, 2013	Sep 02, 2014
5.	Bi-log Antenna	TESEQ	CBL6112D	23193	May 03, 2013	May 02, 2014
6.	Horn Antenna	EMCO	3115	9607-4878	May 11, 2013	May 10, 2014
7.	Horn Antenna	EMCO	3116	00062643	Jul 03, 2013	Jul 02, 2014
8.	50 Ω Coaxial Switch	Anritsu	MP59B	6200426390	Sep 18, 2013	Mar 17, 2014
9.	Software	Audix	E3	6.2007-9-10	-	-

3.2 Block Diagram of Test Setup

3.2.1 Test Setup



■ : 50 ohm Coaxial Switch

3.3 Radiated Emission Limit [FCC Part 15 Subpart C 15.209]

Frequency (MHz)	Distance (m)	Field strength limits ($\mu\text{V/m}$)	
		($\mu\text{V/m}$)	dB($\mu\text{V/m}$)
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
Above 960	3	500	54.0
NOTE 1 - Emission Level dB ($\mu\text{V/m}$) = 20 log Emission Level ($\mu\text{V/m}$) NOTE 2 - The tighter limit applies at the band edges. NOTE 3 - Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system. NOTE 4 - The limits shown are based on Quasi-peak value detector below or equal to 1GHz and Average value detector above 1GHz. NOTE 5 - Above 1 GHz, the limit on peak emission is 20 dB above the maximum permitted average emission limit applicable to the EUT			

3.4 Test Configuration

The EUT (listed in Sec.2.1) and the simulators (listed in Sec.2.2) were installed as shown on Sec.3.2 to meet FCC requirements and operating in a manner that tends to maximize its emission level in a normal application.

3.5 Operating Condition of EUT

3.5.1 Setup the EUT as shown in Sec. 3.2.

3.5.2 Turn on the power of all equipment.

3.5.3 Turn the EUT on the test mode, and then test.

3.6 Test Procedures

Radiated emission test applies to harmonics/spurs that fall in the restricted bands listed in Section 15.205. The maximum permitted average field strength is listed in Section 15.209. A pre-amp is necessary for this measurement. For measurement above 1 GHz, set RBW = 1MHz, VBW = 10 Hz, Sweep: Auto. If the emission is pulsed, modify the unit for continuous operation; use the settings shown above, then correct the reading by subtracting the peak-average correction factor, derived from the appropriate duty cycle calculation.

The EUT was placed on a turntable that is 0.8 meter above ground. The turntable rotated 360 degrees to determine the position of the maximum emission level. The EUT was set 3 meters away from the receiving antenna, which was mounted on an antenna tower. The antenna moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (Calibrated Bilog Antenna) or Horn antenna was used as receiving antenna. Both horizontal and vertical polarizations of the antenna were set on measurement. In order to find the maximum emission, all of the interference cables were manipulated according to ANSI C63.4:2003 requirements during radiated emission test.

The bandwidth of Test Receiver R&S ESCI was set at 120 kHz from 30MHz to 1000MHz.

The bandwidth of the VBW was set at 1MHz and RBW was set at 1MHz for peak emission measurement above 1GHz for Spectrum Agilent E7405A.

The frequency range from 30 MHz to 25 GHz (Up to 10th harmonics from fundamental frequency) was checked.

The EUT was tested under the following test modes:

Mode	Operation	Channel	Frequency
1.	Transmitting	00	2402 MHz
2.		39	2441 MHz
3.		78	2480 MHz
4.	Receiving	--	--
5.	Transmitting	00	2402 MHz
6.	Band-Edge	78	2480 MHz

All the test results are listed in Sec.3.7.

3.7 Test Results

<PASS>

The frequency and amplitude of the highest radiated emission relative the limit is reported. All the emissions not reported below are too low against the FCC limit.

No.	Operation	Channel	Frequency	Data Page
1.	Transmitting (NON-EDR)	00	2402 MHz	P12
2.		39	2441 MHz	P13
3.		78	2480 MHz	P14
4.	Transmitting (EDR)	00	2402 MHz	P15
5.		39	2441 MHz	P16
6.		78	2480 MHz	P17
7.	Receiving	--	--	P18
8.	Transmitting	Band Edge		P19

NOTE 1 – Level = Read Level + Antenna Factor + Cable Loss (<1GHz)

NOTE 2 – Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor (>1GHz)

NOTE 3 – EUT configured in Lying, Side & Stand direction were all evaluated. The emission levels recorded below is data of EUT configured in Lying direction, for Lying direction was the maximum emission direction during the test.

NOTE 4 – All reading are Quasi-Peak values below or equal to 1GHz, Peak and Average values above 1GHz.

For above 1GHz test, if the peak measured value complies with the average limit, it is unnecessary to perform an average measurement.

EUT : Remote Control Temperature : 22°C

Model No. : ERF6C11 Humidity : 40%RH

Test Mode : Transmitting Ch00 (NON-EDR) Date of Test : Jan. 29, 2014

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	30.97	1.35	18.10	0.64	--	20.09	40.00	19.91	QP
	48.43	6.71	8.08	0.83	--	15.62	40.00	24.38	
	320.03	3.30	13.80	2.54	--	19.64	46.00	26.36	
	557.68	2.64	19.52	3.10	--	25.26	46.00	20.74	
	710.94	2.77	19.60	3.50	--	25.87	46.00	20.13	
	888.45	3.96	19.20	4.42	--	27.58	46.00	18.42	
	2089.00	46.96	30.50	4.50	35.91	46.05	74.00	27.95	PK
	5572.00	45.36	34.04	7.77	35.82	51.35	74.00	22.65	
	6859.00	43.58	33.77	9.26	35.99	50.62	74.00	23.38	
Vertical	38.73	7.15	13.01	0.74	--	20.90	40.00	19.10	QP
	96.93	11.73	9.80	1.21	--	22.74	43.50	20.76	
	281.23	9.77	12.50	2.35	--	24.62	46.00	21.38	
	528.58	5.13	18.10	3.00	--	26.23	46.00	19.77	
	688.63	3.91	19.75	3.47	--	27.13	46.00	18.87	
	958.29	7.16	19.60	4.66	--	31.42	46.00	14.58	
	1729.00	50.55	28.59	4.10	36.10	47.14	74.00	26.86	PK
	3781.00	47.25	32.54	5.96	35.50	50.25	74.00	23.75	
	6697.00	44.42	33.74	8.69	35.97	50.88	74.00	23.12	

TEST ENGINEER: NEAL WANG

EUT : Remote Control Temperature : 22°C

Model No. : ERF6C11 Humidity : 40%RH

Test Mode : Transmitting Ch39 (NON-EDR) Date of Test : Jan. 29, 2014

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	33.88	2.17	16.07	0.68	--	18.92	40.00	21.08	QP
	145.43	10.07	10.34	1.50	--	21.91	43.50	21.59	
	320.03	3.88	13.80	2.54	--	20.22	46.00	25.78	
	555.74	2.66	19.65	3.07	--	25.38	46.00	20.62	
	623.64	3.43	18.80	3.29	--	25.52	46.00	20.48	
	822.49	3.15	20.40	3.79	--	27.34	46.00	18.66	
	1810.00	52.04	29.46	4.17	36.04	49.63	74.00	24.37	PK
	3862.00	46.32	32.86	5.88	35.47	49.59	74.00	24.41	
Vertical	5680.00	44.57	33.92	8.03	35.84	50.68	74.00	23.32	QP
	38.73	7.90	13.01	0.74	--	21.65	40.00	18.35	
	80.44	10.37	7.15	1.04	--	18.56	40.00	21.44	
	281.23	6.35	12.50	2.35	--	21.20	46.00	24.80	
	528.58	5.08	18.10	3.00	--	26.18	46.00	19.82	
	824.43	3.21	20.50	3.79	--	27.50	46.00	18.50	
	958.29	5.58	19.60	4.66	--	29.84	46.00	16.16	
	2053.00	46.49	30.71	4.45	35.90	45.75	74.00	28.25	PK
Vertical	3799.00	46.08	32.63	5.92	35.50	49.13	74.00	24.87	
	6985.00	43.62	33.80	9.54	36.00	50.96	74.00	23.04	

TEST ENGINEER: NEAL WANG

EUT : Remote Control Temperature : 22°C

Model No. : ERF6C11 Humidity : 40%RH

Test Mode : Transmitting Ch78 (NON-EDR) Date of Test : Jan. 29, 2014

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	30.97	1.44	18.10	0.64	--	20.18	40.00	19.82	QP
	48.43	7.32	8.08	0.83	--	16.23	40.00	23.77	
	145.43	10.48	10.34	1.50	--	22.32	43.50	21.18	
	310.33	4.24	13.20	2.52	--	19.96	46.00	26.04	
	562.53	2.87	19.23	3.10	--	25.20	46.00	20.80	
	688.63	3.70	19.75	3.47	--	26.92	46.00	19.08	
	2269.00	46.71	29.39	4.64	35.93	44.81	74.00	29.19	PK
	3817.00	46.70	32.68	5.92	35.48	49.82	74.00	24.18	
Vertical	5887.00	44.50	33.71	8.30	35.88	50.63	74.00	23.37	QP
	33.88	5.11	16.07	0.68	--	21.86	40.00	18.14	
	80.44	10.51	7.15	1.04	--	18.70	40.00	21.30	
	145.43	10.95	10.34	1.50	--	22.79	43.50	20.71	
	368.53	2.89	15.13	2.63	--	20.65	46.00	25.35	
	686.69	3.58	19.60	3.47	--	26.65	46.00	19.35	
	933.07	4.80	20.00	4.60	--	29.40	46.00	16.60	
	2062.00	46.86	30.67	4.47	35.91	46.09	74.00	27.91	PK
Vertical	3763.00	47.23	32.45	5.96	35.52	50.12	74.00	23.88	
	6373.00	45.10	33.68	8.04	35.94	50.88	74.00	23.12	

TEST ENGINEER: NEAL WANG

EUT : Remote Control Temperature : 22°C

Model No. : ERF6C11 Humidity : 40%RH

Transmitting Ch00

Test Mode : (EDR) Date of Test : Jan. 29, 2014

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	48.43	7.32	8.08	0.83	--	16.23	40.00	23.77	QP
	114.39	4.01	11.92	1.32	--	17.25	43.50	26.25	
	159.98	10.98	9.20	1.58	--	21.76	43.50	21.74	
	555.74	3.03	19.65	3.07	--	25.75	46.00	20.25	
	837.04	4.32	19.80	3.98	--	28.10	46.00	17.90	
	958.29	4.67	19.60	4.66	--	28.93	46.00	17.07	
	1945.00	46.80	30.60	4.35	35.94	45.81	74.00	28.19	PK
	3808.00	47.12	32.68	5.92	35.49	50.23	74.00	23.77	
Vertical	5878.00	45.11	33.71	8.30	35.88	51.24	74.00	22.76	QP
	38.73	4.90	13.01	0.74	--	18.65	40.00	21.35	
	61.04	14.26	5.14	0.89	--	20.29	40.00	19.71	
	114.39	7.87	11.92	1.32	--	21.11	43.50	22.39	
	334.58	3.18	14.25	2.57	--	20.00	46.00	26.00	
	703.18	1.90	19.97	3.50	--	25.37	46.00	20.63	
	827.34	3.19	20.60	3.88	--	27.67	46.00	18.33	
	1720.00	50.24	28.54	4.08	36.12	46.74	74.00	27.26	PK
Vertical	3835.00	46.84	32.77	5.92	35.48	50.05	74.00	23.95	
	5590.00	44.81	34.02	7.77	35.82	50.78	74.00	23.22	

TEST ENGINEER: NEAL WANG

EUT : Remote Control Temperature : 22°C

Model No. : ERF6C11 Humidity : 40%RH

Transmitting Ch39

Test Mode : (EDR) Date of Test : Jan. 29, 2014

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	32.91	1.18	16.55	0.67	--	18.40	40.00	21.60	QP
	145.43	9.84	10.34	1.50	--	21.68	43.50	21.82	
	281.23	6.02	12.50	2.35	--	20.87	46.00	25.13	
	417.03	2.67	17.15	2.73	--	22.55	46.00	23.45	
	555.74	2.41	19.65	3.07	--	25.13	46.00	20.87	
	824.43	4.23	20.50	3.79	--	28.52	46.00	17.48	
	1864.00	47.52	29.94	4.24	35.99	45.71	74.00	28.29	PK
	3835.00	46.21	32.77	5.92	35.48	49.42	74.00	24.58	
Vertical	5770.00	44.18	33.83	8.17	35.86	50.32	74.00	23.68	QP
	80.44	10.25	7.15	1.04	--	18.44	40.00	21.56	
	145.43	11.49	10.34	1.50	--	23.33	43.50	20.17	
	281.23	9.40	12.50	2.35	--	24.25	46.00	21.75	
	426.73	2.62	17.43	2.74	--	22.79	46.00	23.21	
	706.09	2.98	19.83	3.50	--	26.31	46.00	19.69	
	934.04	5.44	19.90	4.60	--	29.94	46.00	16.06	
	1729.00	50.75	28.59	4.10	36.10	47.34	74.00	26.66	PK
	3871.00	47.66	32.90	5.88	35.46	50.98	74.00	23.02	
	7102.00	43.57	34.32	9.53	36.04	51.38	74.00	22.62	

TEST ENGINEER: NEAL WANG

EUT : Remote Control Temperature : 22°C

Model No. : ERF6C11 Humidity : 40%RH

Transmitting Ch78

Test Mode : (EDR) Date of Test : Jan. 29, 2014

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	31.94	1.71	17.10	0.65	--	19.46	40.00	20.54	QP
	128.94	6.71	12.16	1.42	--	20.29	43.50	23.21	
	145.43	10.48	10.34	1.50	--	22.32	43.50	21.18	
	281.23	5.43	12.50	2.35	--	20.28	46.00	25.72	
	560.59	3.16	19.40	3.10	--	25.66	46.00	20.34	
	982.54	4.12	21.23	4.76	--	30.11	54.00	23.89	PK
	3889.00	46.36	32.99	5.88	35.45	49.78	74.00	24.22	
	5671.00	44.42	33.94	7.90	35.84	50.42	74.00	23.58	
Vertical	6958.00	45.23	33.79	9.26	36.00	52.28	74.00	21.72	QP
	33.88	5.32	16.07	0.68	--	22.07	40.00	17.93	
	80.44	10.16	7.15	1.04	--	18.35	40.00	21.65	
	259.89	2.85	12.60	2.22	--	17.67	46.00	28.33	
	499.48	3.76	18.10	2.90	--	24.76	46.00	21.24	
	698.33	2.63	20.03	3.49	--	26.15	46.00	19.85	PK
	958.29	6.32	19.60	4.66	--	30.58	46.00	15.42	
	3979.00	46.56	33.32	5.80	35.41	50.27	74.00	23.73	
	5887.00	44.72	33.71	8.30	35.88	50.85	74.00	23.15	PK
	8281.00	44.10	35.94	9.27	36.40	52.91	74.00	21.09	

TEST ENGINEER: NEAL WANG

EUT : Remote Control Temperature : 22°C

Model No. : ERF6C11 Humidity : 40%RH

Test Mode : Receiving Date of Test : Jan. 29, 2014

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	30.97	1.43	18.10	0.64	--	20.17	40.00	19.83	QP
	114.39	3.87	11.92	1.32	--	17.11	43.50	26.39	
	281.23	4.90	12.50	2.35	--	19.75	46.00	26.25	
	329.73	3.59	14.10	2.56	--	20.25	46.00	25.75	
	547.98	2.26	19.83	3.04	--	25.13	46.00	20.87	
	958.29	5.04	19.60	4.66	--	29.30	46.00	16.70	
	3657.74	44.65	32.01	6.02	35.57	47.11	74.00	26.89	PK
	5482.98	43.75	33.97	7.64	35.80	49.56	74.00	24.44	
Vertical	6334.40	44.26	33.67	8.04	35.93	50.04	74.00	23.96	PK
	33.88	4.74	16.07	0.68	--	21.49	40.00	18.51	
	80.44	10.42	7.15	1.04	--	18.61	40.00	21.39	
	250.19	3.57	11.80	2.15	--	17.52	46.00	28.48	
	421.88	2.16	17.33	2.73	--	22.22	46.00	23.78	
	543.13	1.92	19.70	3.04	--	24.66	46.00	21.34	
	853.53	3.06	20.37	4.07	--	27.50	46.00	18.50	
	3061.74	44.41	29.72	5.84	35.96	44.01	74.00	29.99	
	4455.95	43.18	32.28	6.89	35.54	46.81	74.00	27.19	PK
	6041.73	44.57	33.61	8.33	35.90	50.61	74.00	23.39	

TEST ENGINEER: NEAL WANG

Radiated Band Edge measurement:**For NON-EDR mode:**

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	2388.48	48.27	28.72	4.74	35.94	45.79	74.00	28.21	PK
	2483.68	51.63	28.26	4.79	35.95	48.73	74.00	25.27	
	2390.00	32.00	28.72	4.74	35.94	29.52	54.00	24.48	AV
	2483.50	33.02	28.26	4.79	35.95	30.12	54.00	23.88	
Vertical	2389.76	53.09	28.72	4.74	35.94	50.61	74.00	23.39	PK
	2483.50	51.76	28.26	4.79	35.95	48.86	74.00	25.14	
	2390.00	32.26	28.72	4.74	35.94	29.78	54.00	24.22	AV
	2483.50	33.16	28.26	4.79	35.95	30.26	54.00	23.74	

For EDR mode:

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	2389.73	52.76	28.72	4.74	35.94	50.28	74.00	23.72	PK
	2483.50	52.17	28.26	4.79	35.95	49.27	74.00	24.73	
	2390.00	32.14	28.72	4.74	35.94	29.66	54.00	24.34	AV
	2483.50	33.11	28.26	4.79	35.95	30.21	54.00	23.79	
Vertical	2389.95	49.33	28.72	4.74	35.94	46.85	74.00	27.15	PK
	2483.75	54.46	28.26	4.79	35.95	51.56	74.00	22.44	
	2390.00	32.05	28.72	4.74	35.94	29.57	54.00	24.43	AV
	2483.50	33.58	28.26	4.79	35.95	30.68	54.00	23.32	

TEST ENGINEER: NEAL WANG

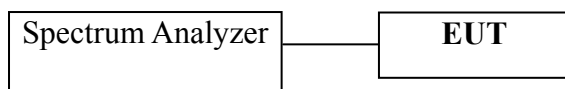
4 20 dB BANDWIDTH MEASUREMENT

4.1 Test Equipment

The following test equipment was used during the Emission Bandwidth measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	N9010A	MY52221182	Jun 14, 2013	Jun 14, 2014

4.2 Block Diagram of Test Setup



4.3 Specification Limits (§15.247(a)(1))

For frequency hopping systems, hopping channel carrier frequencies separated by a minimum of 25kHz or the 20dB bandwidth of hopping channel, whichever is greater.

4.4 Operating Condition of EUT

Enable the EUT to transmit data at different channel frequency individually.

4.5 Test Procedure

The transmitter output was connected to the spectrum analyzer. The bandwidth of the fundamental frequency was measured by spectrum analyzer. Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.

The test procedure is defined in DA 00-705.

4.6 Test Results

PASSED.

All the test results are attached in next pages.

(Test Date: Feb. 12, 2014 Temperature: 21℃ Humidity: 42 %)

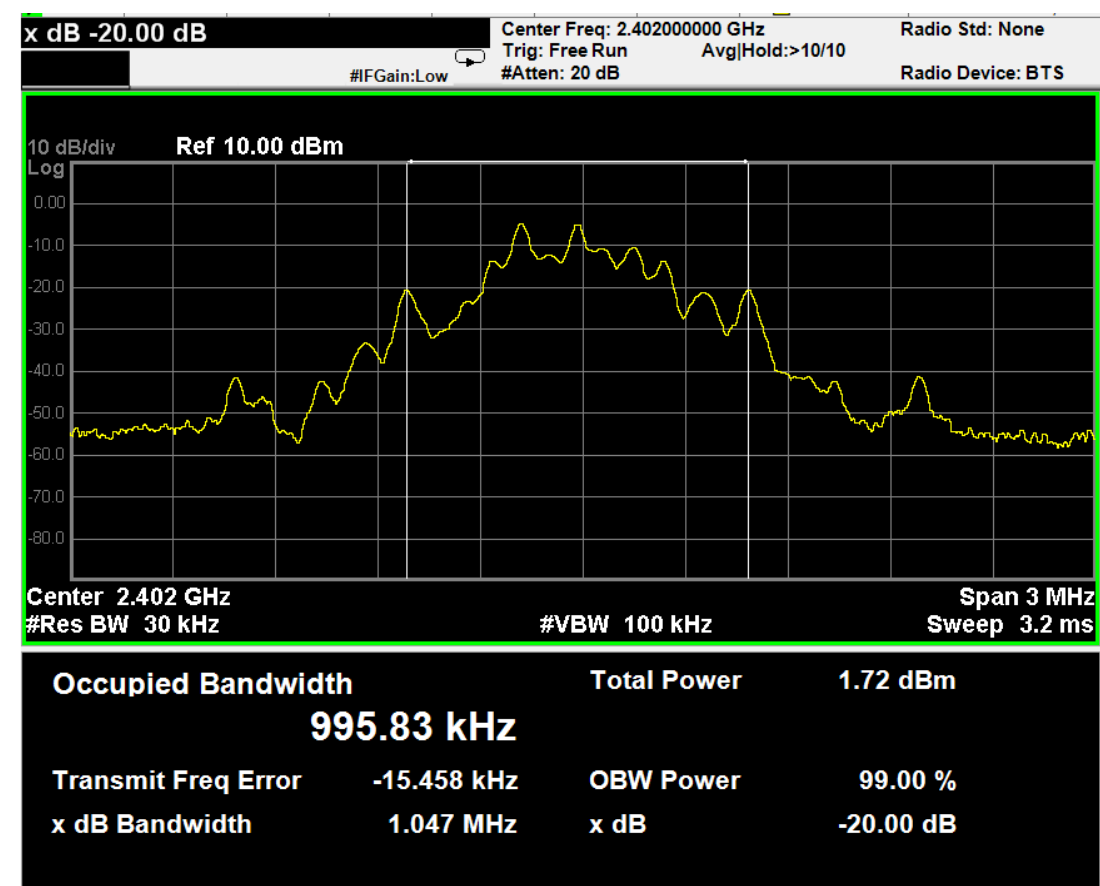
For Non-EDR

Channel	Frequency	20dB Bandwidth
00	2402 MHz	1.047 MHz
39	2441 MHz	1.047 MHz
78	2480 MHz	1.046 MHz

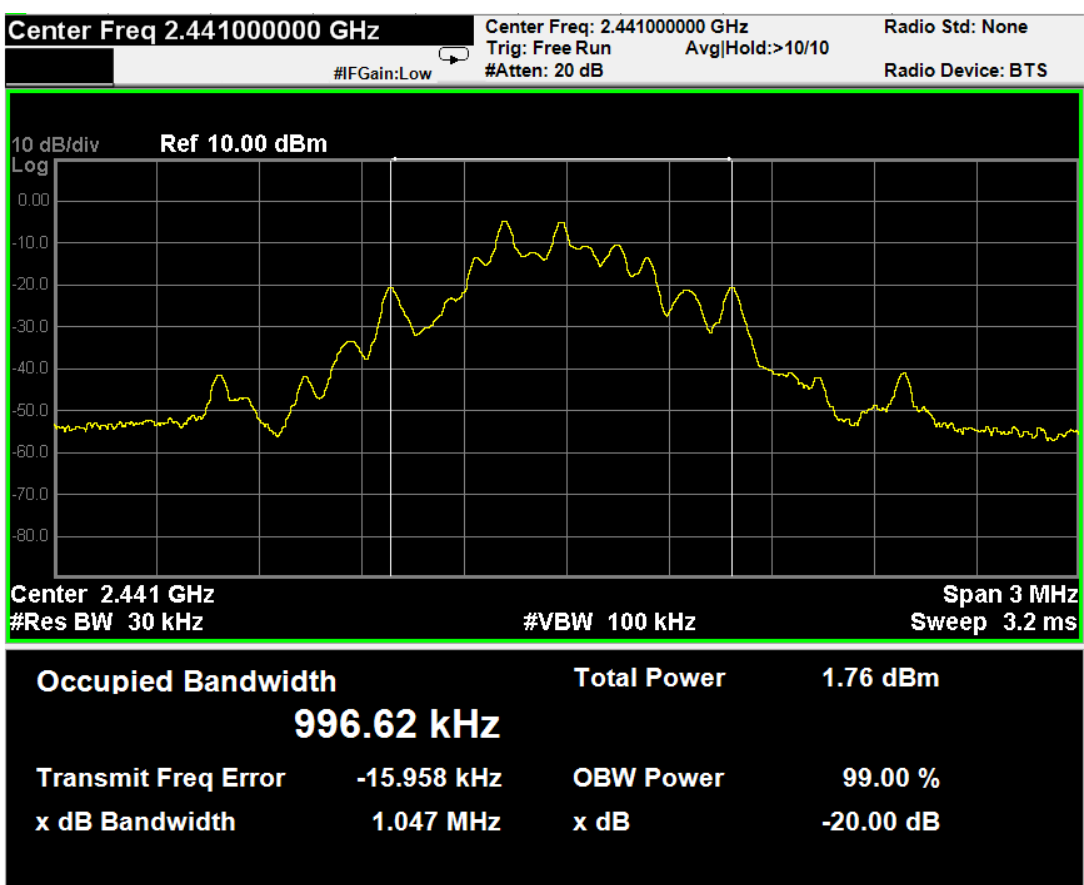
For EDR

Channel	Frequency	20dB Bandwidth
00	2402 MHz	1.153 MHz
39	2441 MHz	1.153 MHz
78	2480 MHz	1.154 MHz

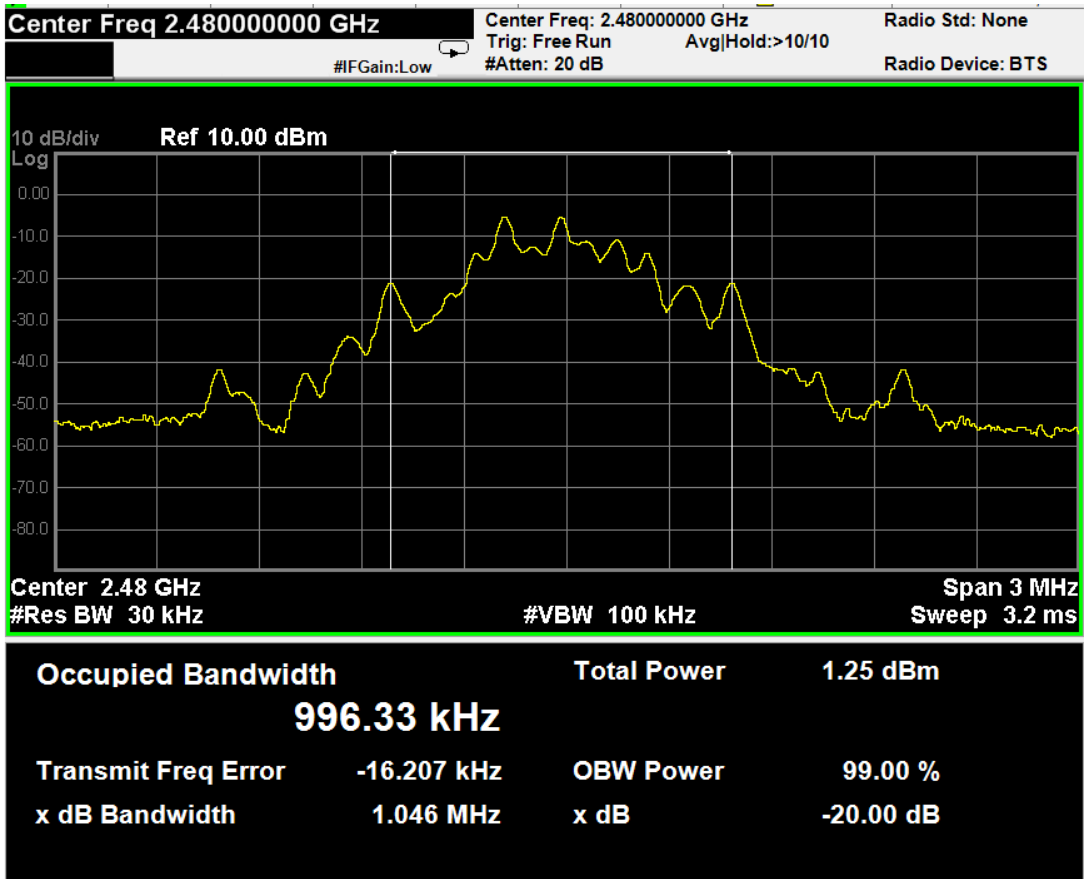
Ch 00 (2402 MHz) NON-EDR



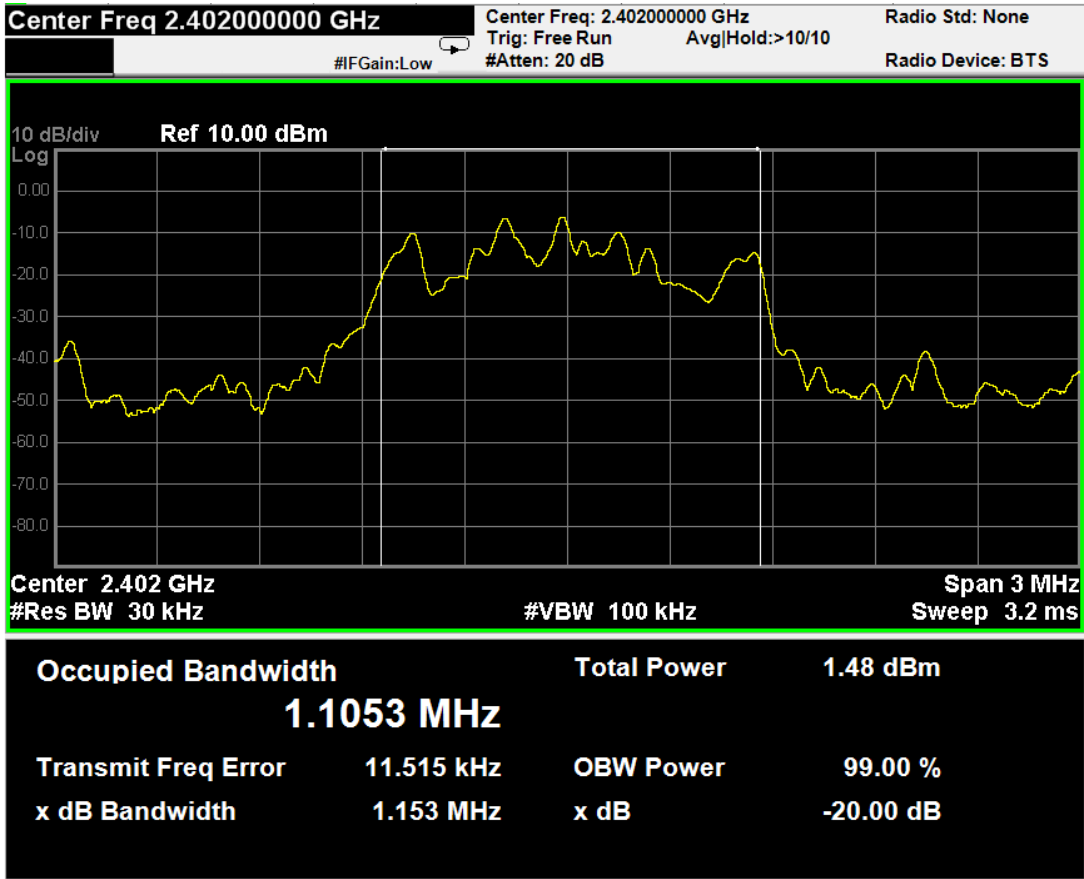
Ch 39 (2441 MHz) NON-EDR



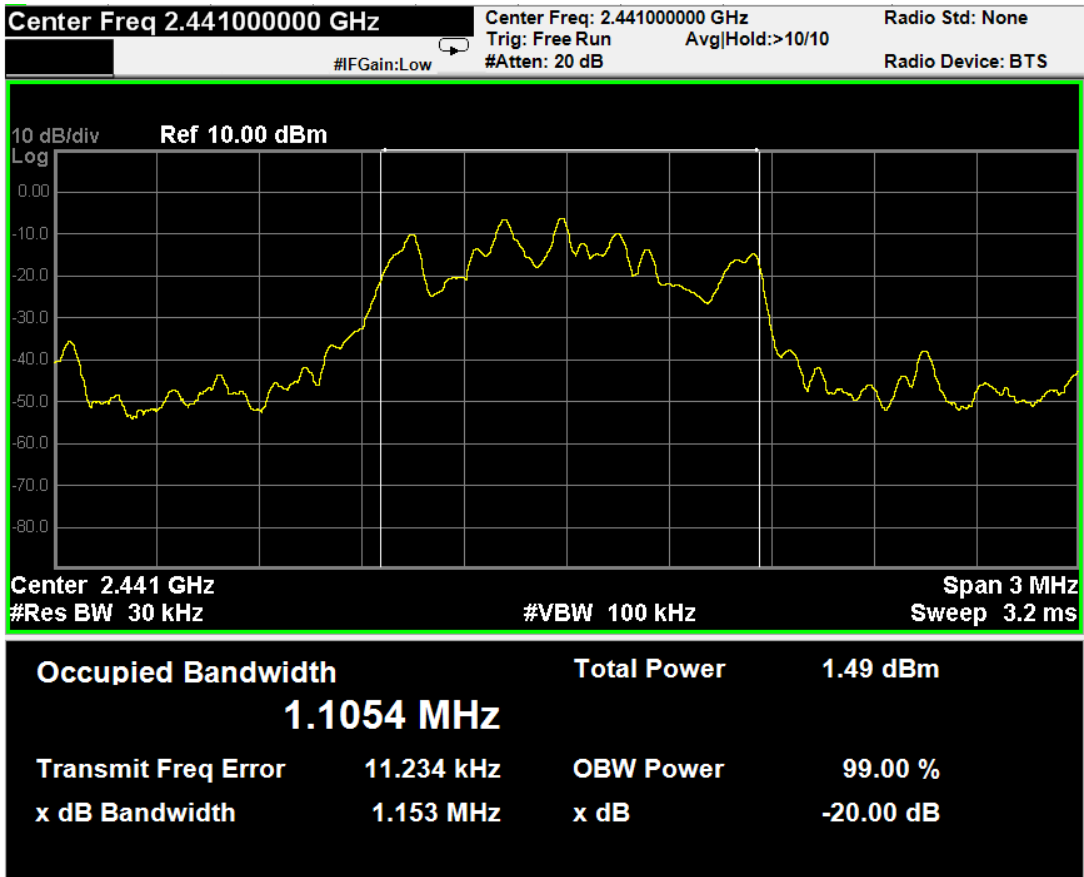
Ch 78 (2480 MHz) NON-EDR



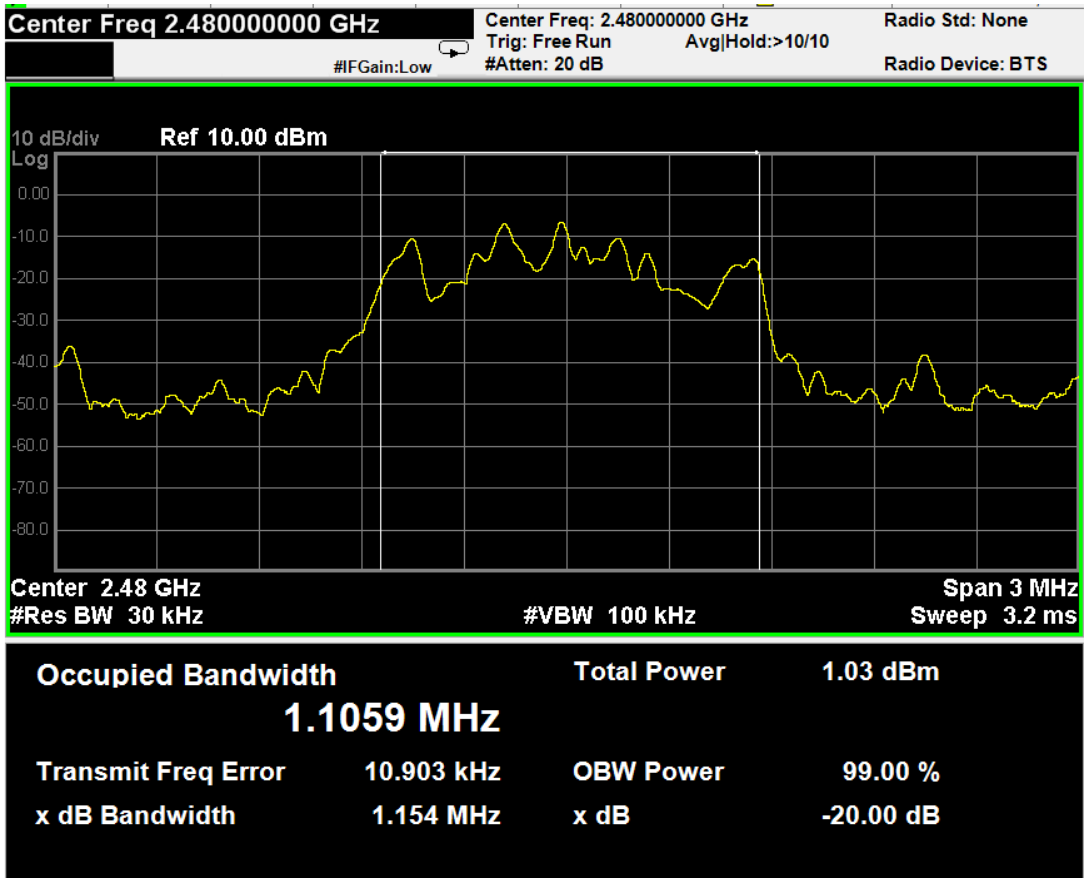
Ch 00 (2402 MHz) EDR



Ch 39 (2441 MHz) EDR



Ch 78 (2480 MHz) EDR



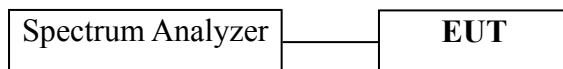
5 PEAK OUTPUT POWER MEASUREMENT

5.1 Test Equipment

The following test equipment was used during the maximum peak output power measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	N9010A	MY52221182	Jun 14, 2013	Jun 14, 2014

5.2 Block Diagram of Test Setup



5.3 Specification Limits ((§15.247(b)(1))

For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels: 1 watt. (30 dBm)

5.4 Operating Condition of EUT

Enable the EUT to transmit data at different channel frequency individually.

5.5 Test Procedure

The transmitter output was connected to the spectrum analyzer.
The test procedure is defined in DA 00-705.

5.6 Test Results

PASSED.

(Test Date: Feb. 12, 2014 Temperature: 21°C Humidity: 42 %)

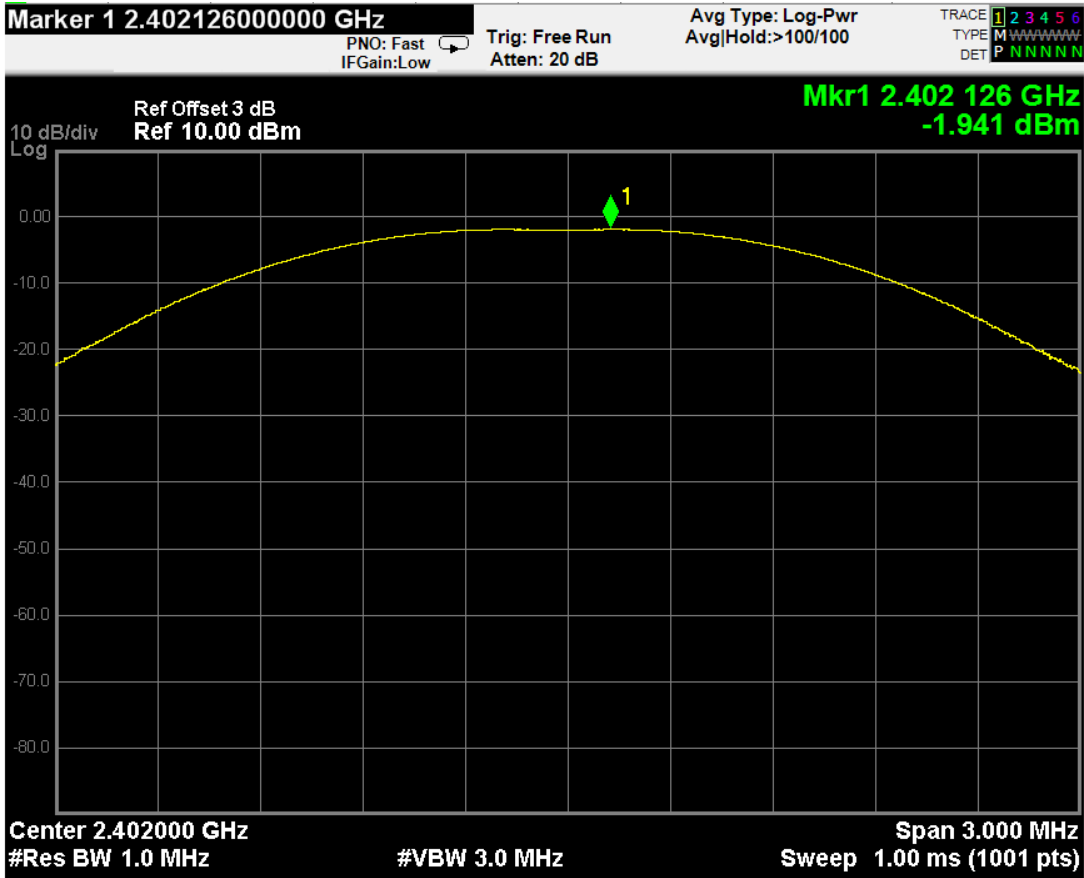
For Non-EDR

Channel	Frequency	Peak Output Power	Limit
00	2402 MHz	-1.941 dBm	30 dBm
39	2441 MHz	-1.936 dBm	30 dBm
78	2480 MHz	-2.418 dBm	30 dBm

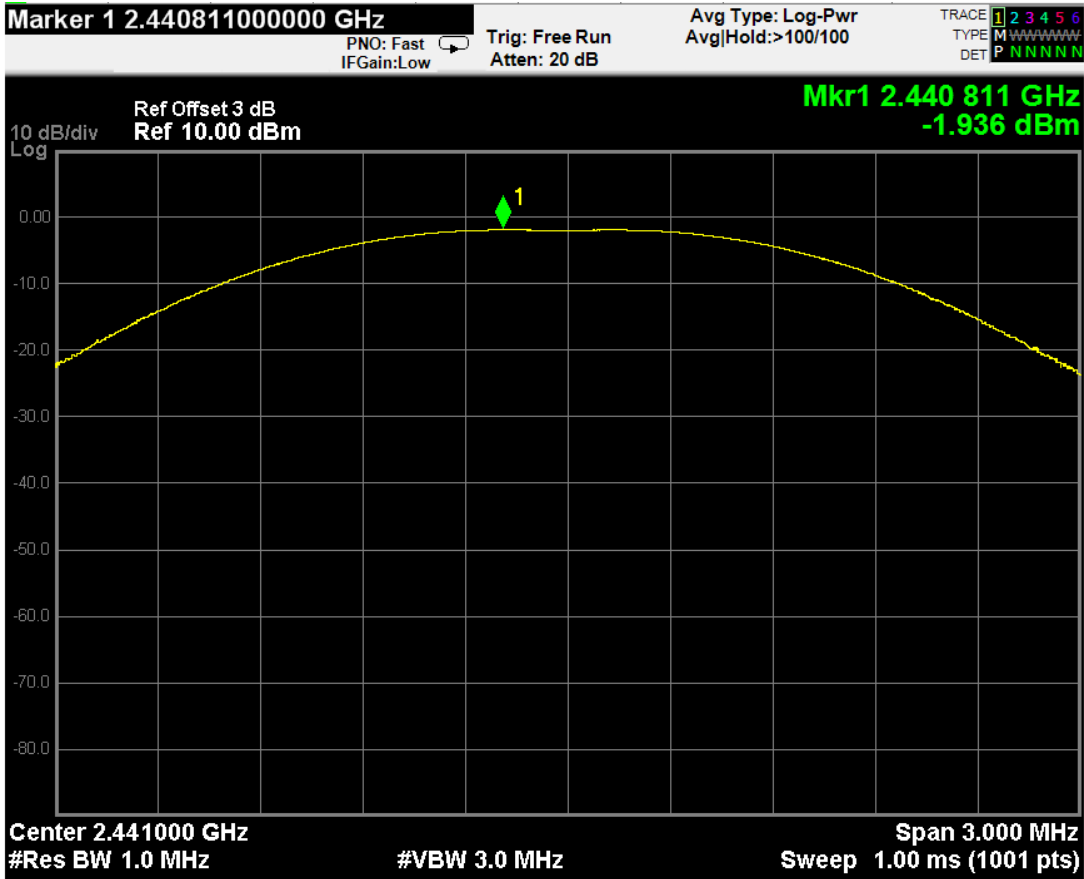
For EDR

Channel	Frequency	Peak Output Power	Limit
00	2402 MHz	-1.038 dBm	30 dBm
39	2441 MHz	-1.013 dBm	30 dBm
78	2480 MHz	-1.489 dBm	30 dBm

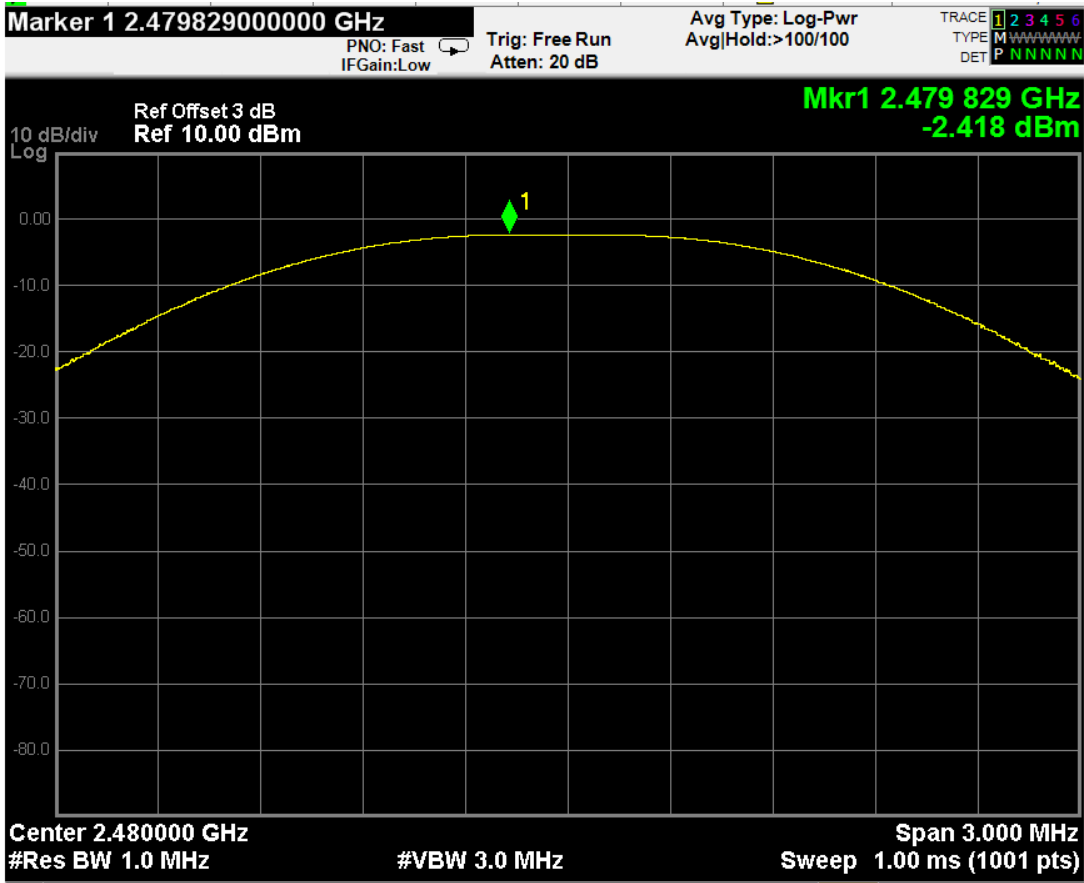
Ch 00 (2402 MHz) NON-EDR



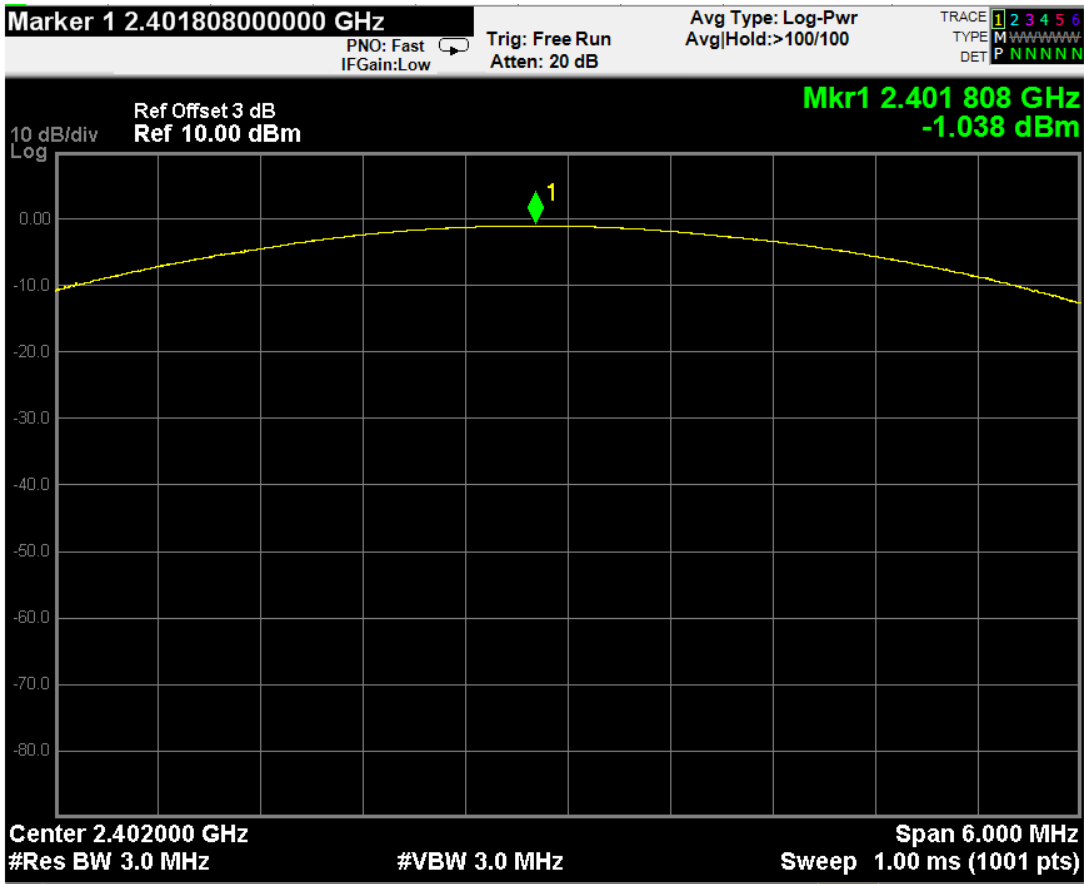
Ch 39 (2441 MHz) NON-EDR



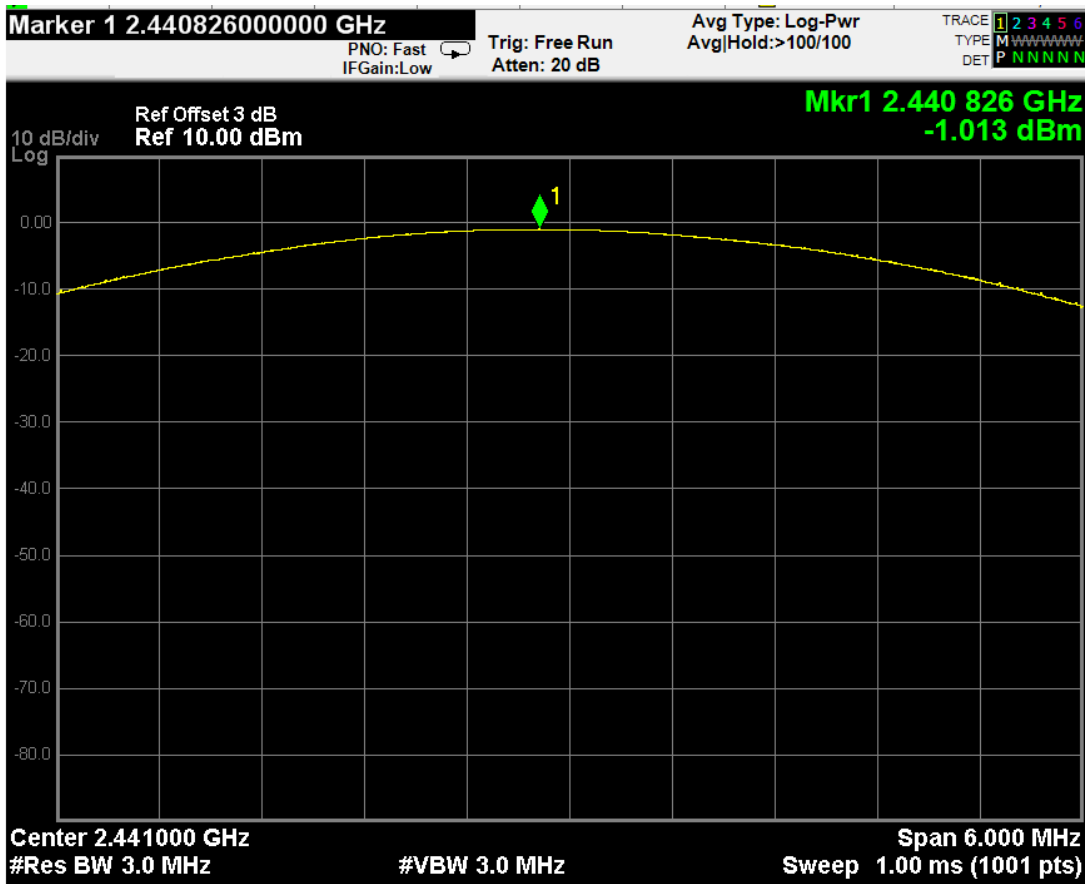
Ch 78 (2480 MHz) NON-EDR



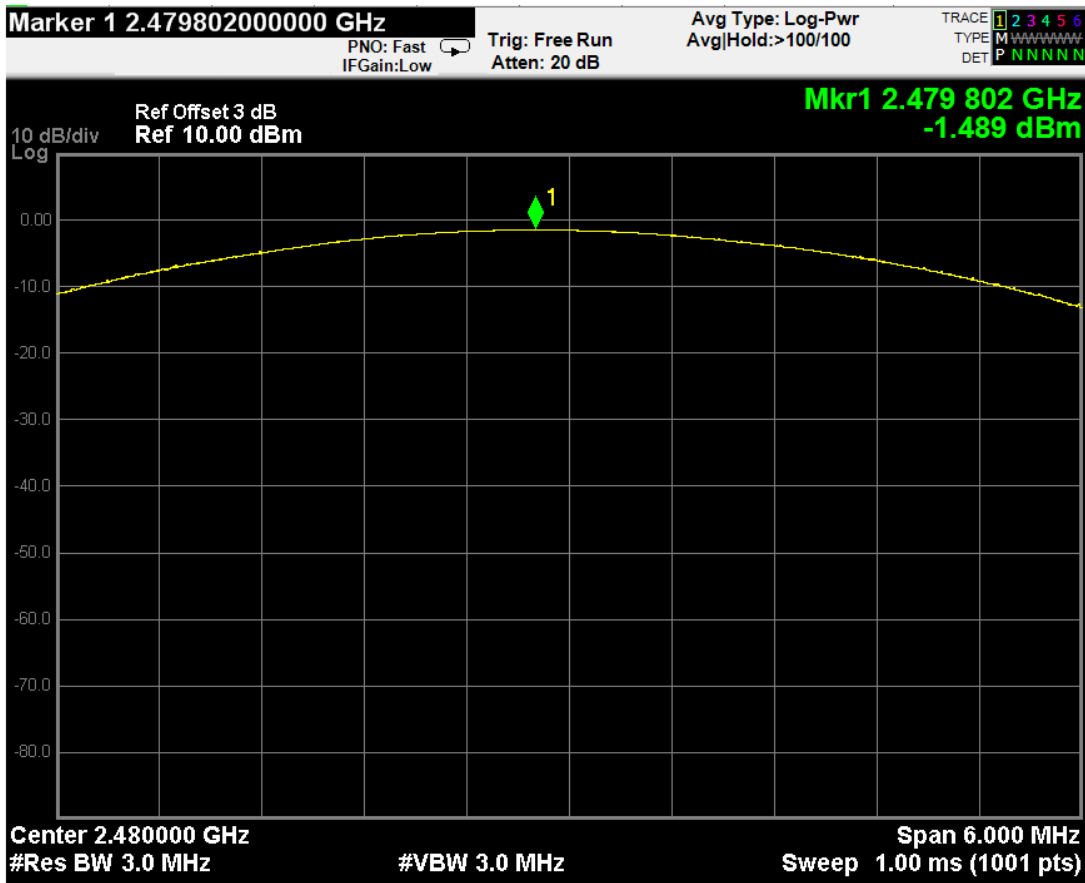
Ch 00 (2402 MHz) EDR



Ch 39 (2441 MHz) EDR



Ch 78 (2480 MHz) EDR



6 SPURIOUS RF CONDUCTED EMISSIONS

MEASUREMENT

6.1 Test Equipment

The following test equipment was used during the emission limitations test :

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	N9010A	MY52221182	Jun 14, 2013	Jun 14, 2014

6.2 Block Diagram of Test Setup

The same as Section. 4.2.

6.3 Specification Limits (§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. Attenuation below the general limits specified in Section 15.209(a) is not required.

In addition, radiated emissions which fall in restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (See Section 15.205(c)).(※This test result attaching to Section. 4.7)

6.4 Operating Condition of EUT

Enable the EUT to transmit data at different channel frequency individually.

6.5 Test Procedure

The transmitter output was connected to the spectrum analyzer. Set RBW = 100 kHz, VBW = 300 kHz, scan up through 10th harmonic. All harmonics/spurs must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100 kHz RBW.

The test procedure is defined in DA 00-705.

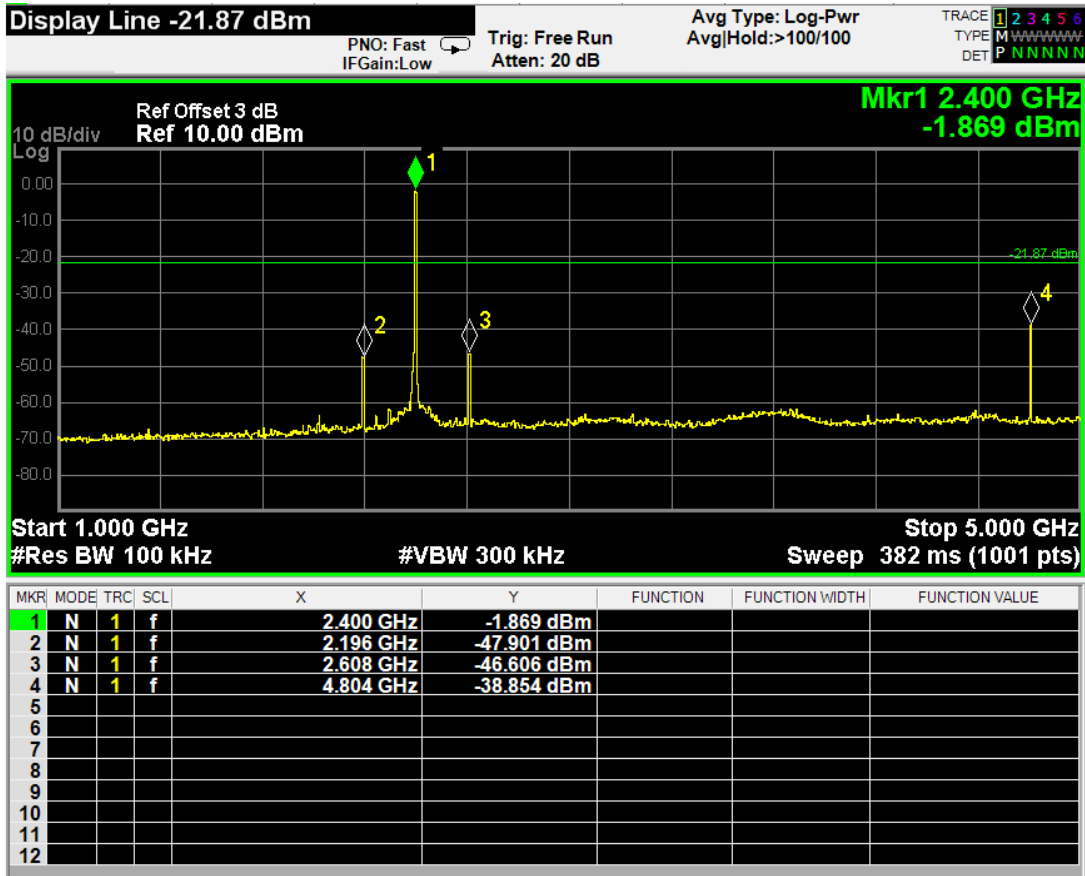
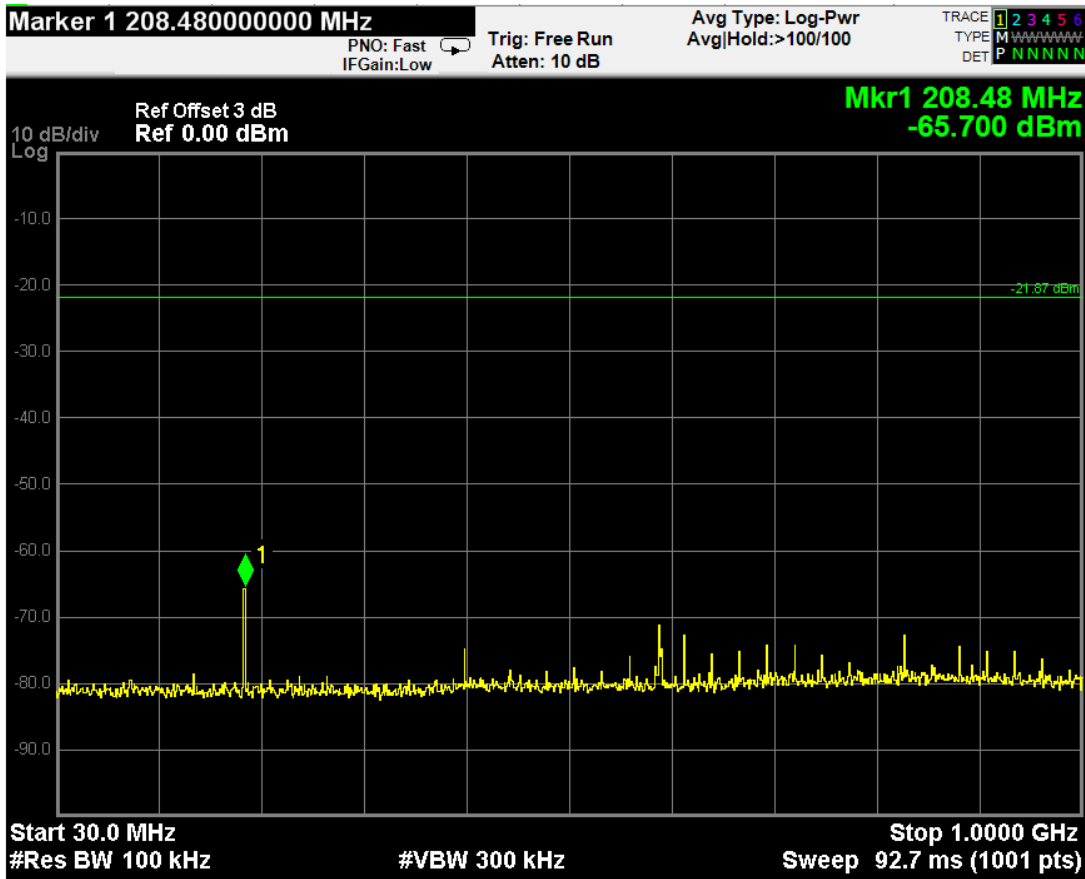
6.6 Test Results

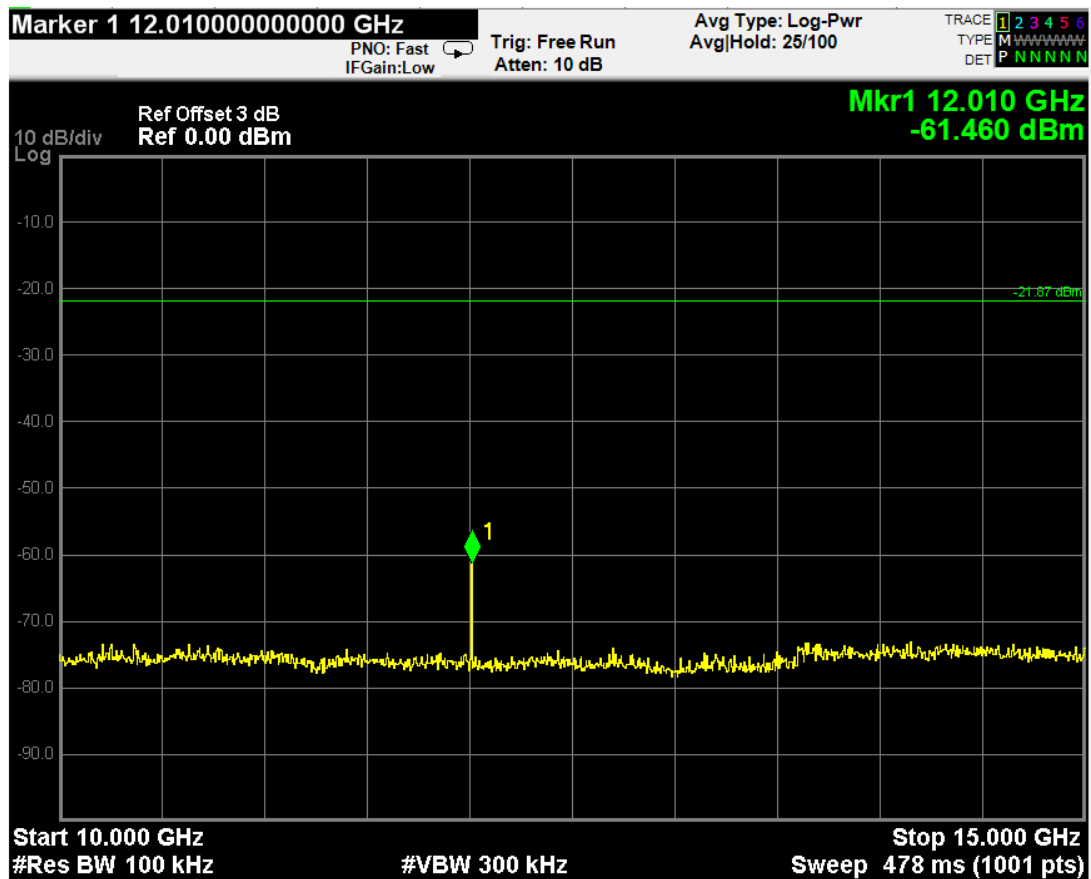
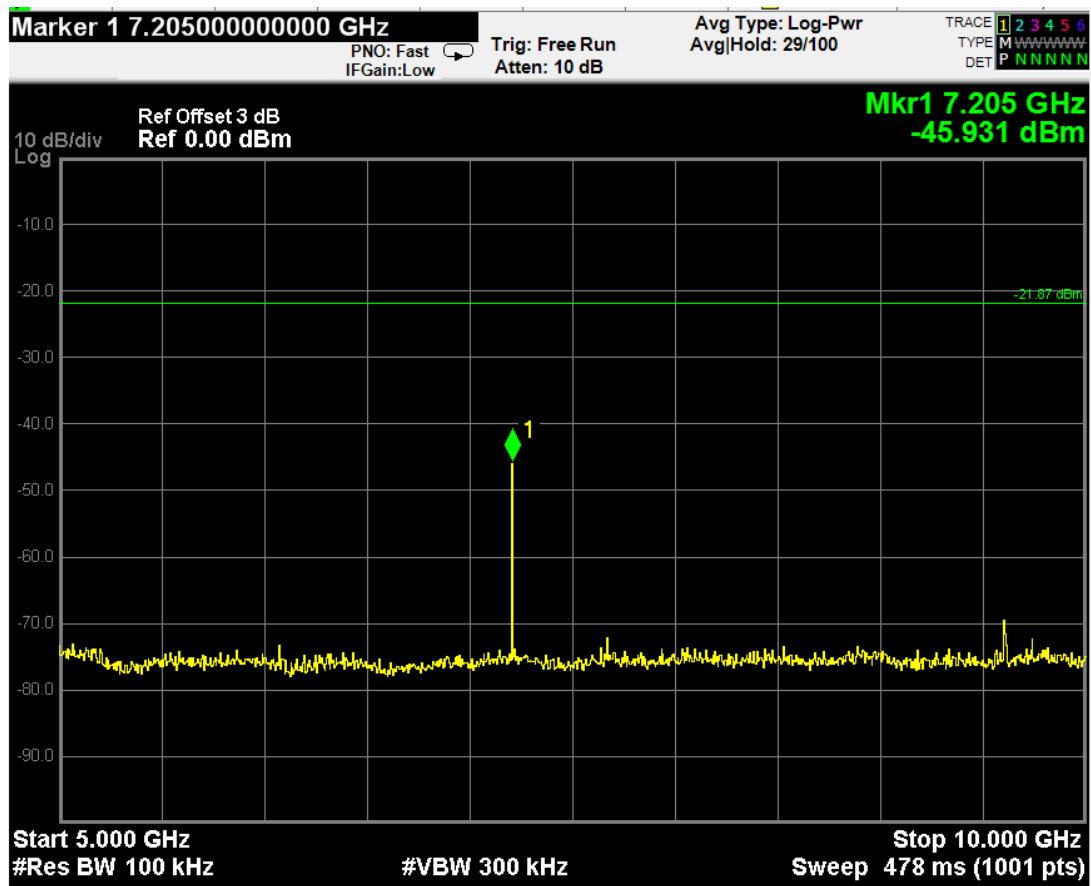
PASSED.

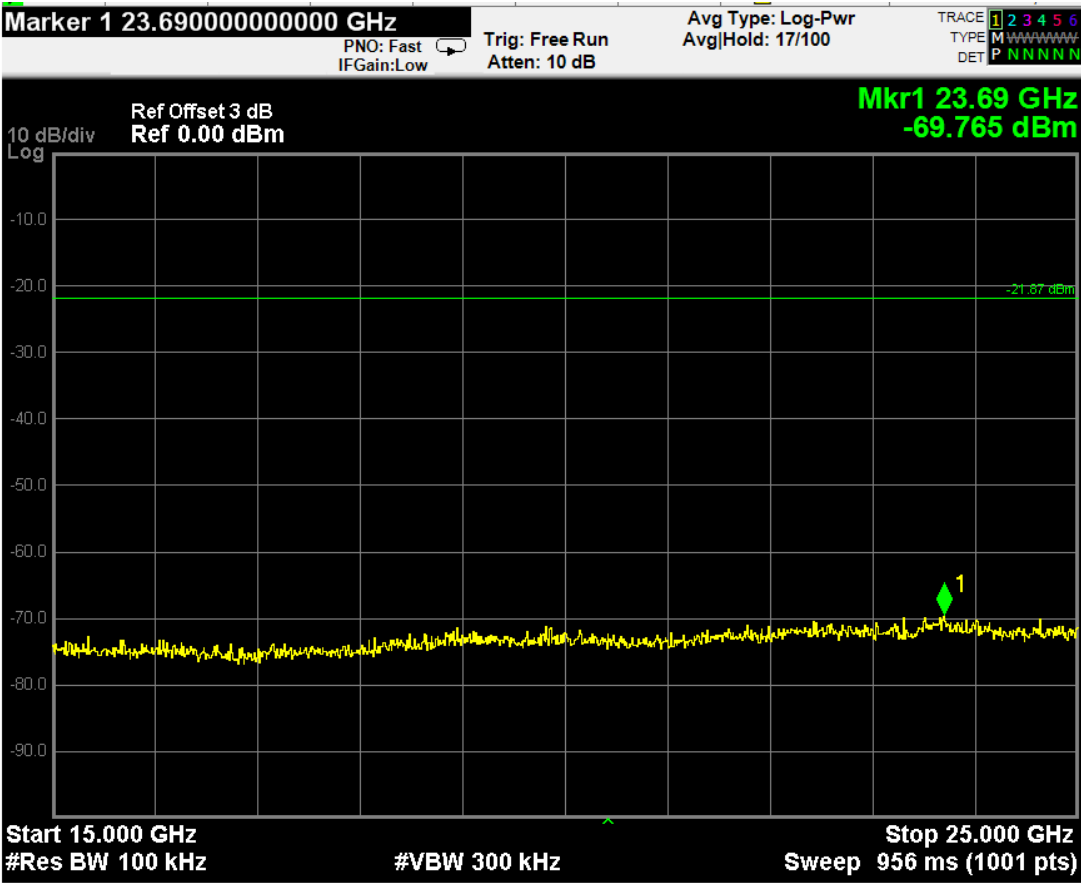
The test data was attached in the next pages.

(Test Date: Feb. 10, 2014 Temperature: 21℃ Humidity: 42 %)

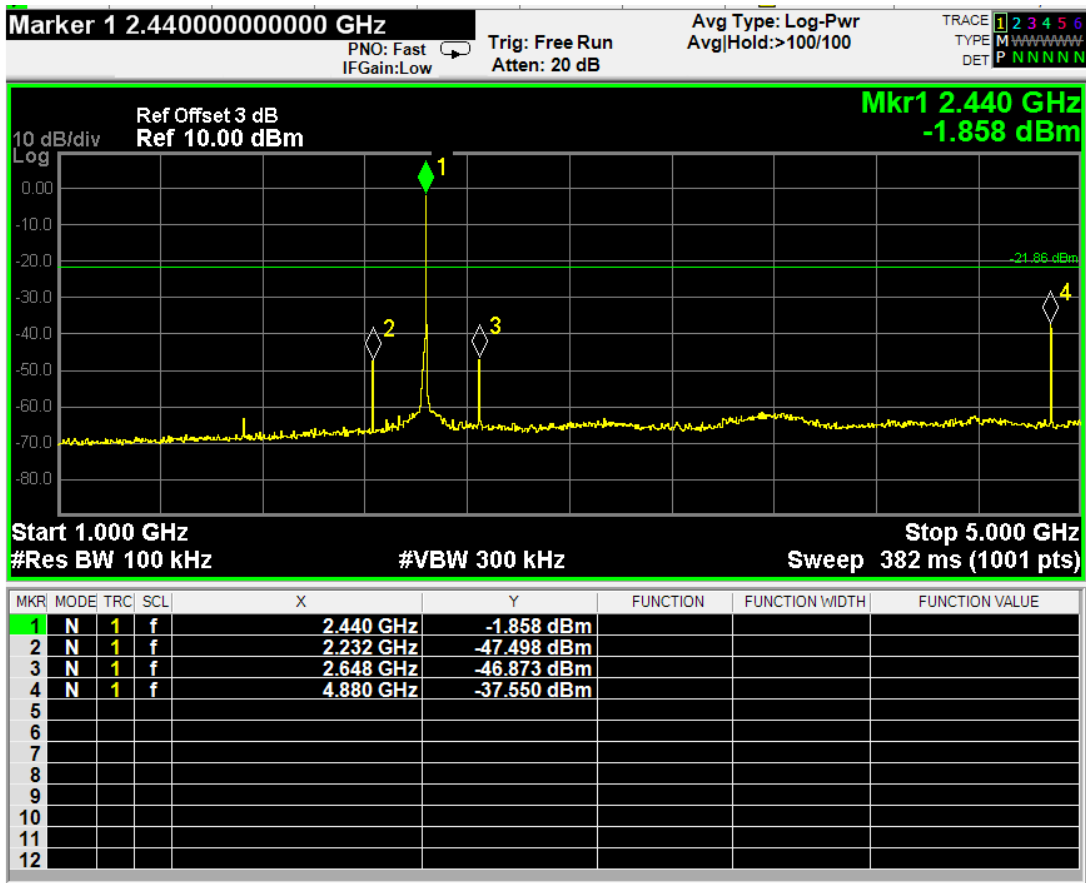
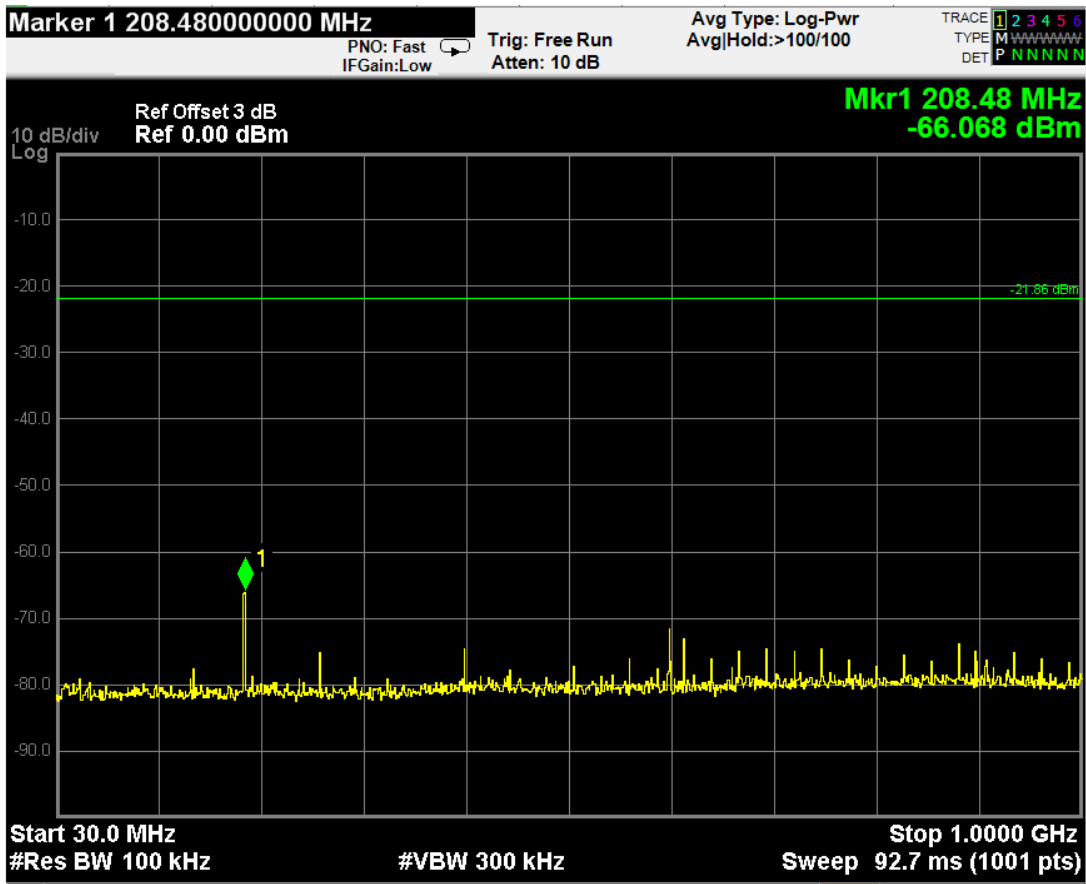
NON-EDR Ch 00 (2402 MHz)

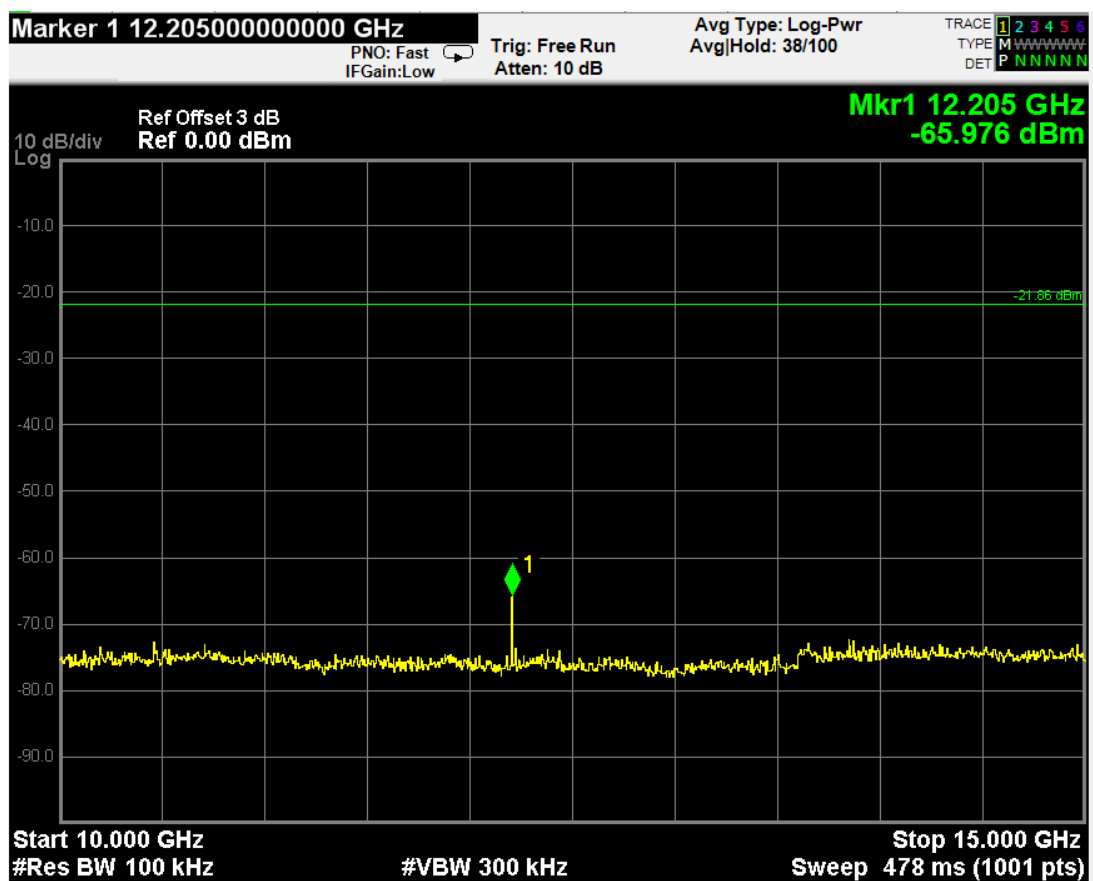
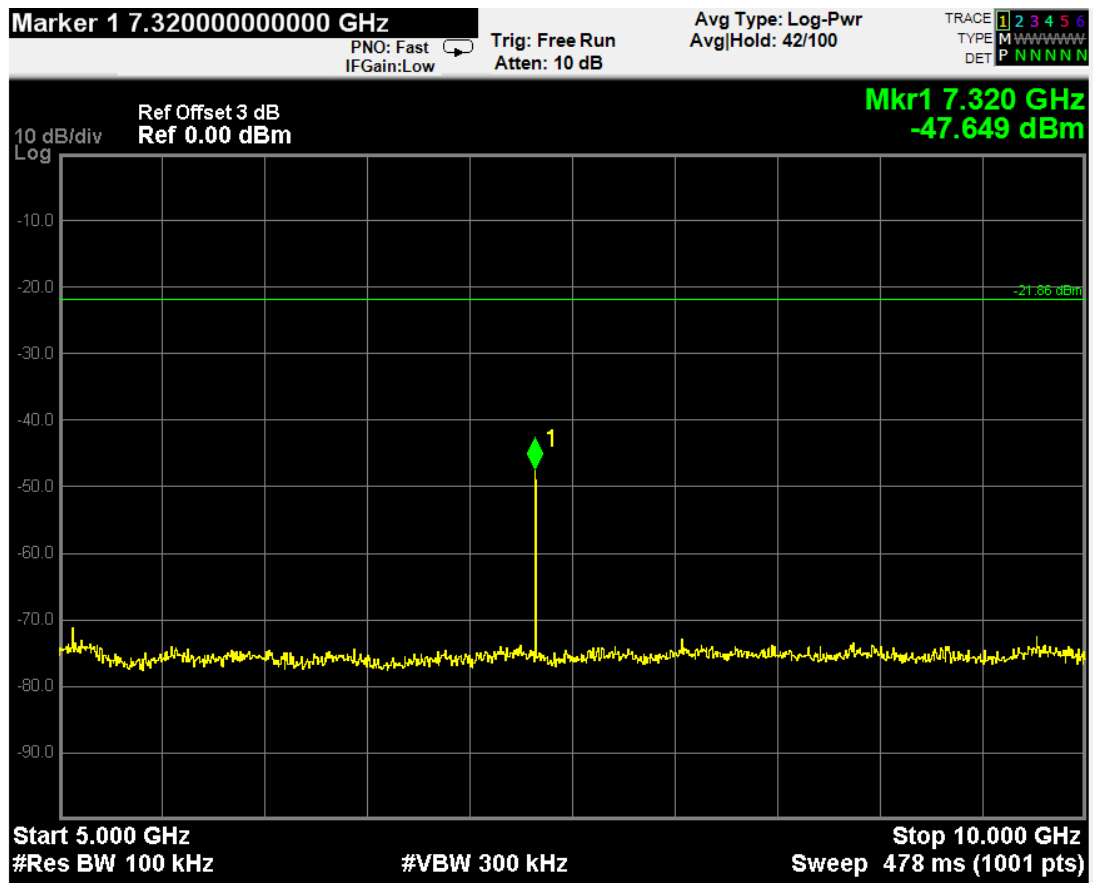


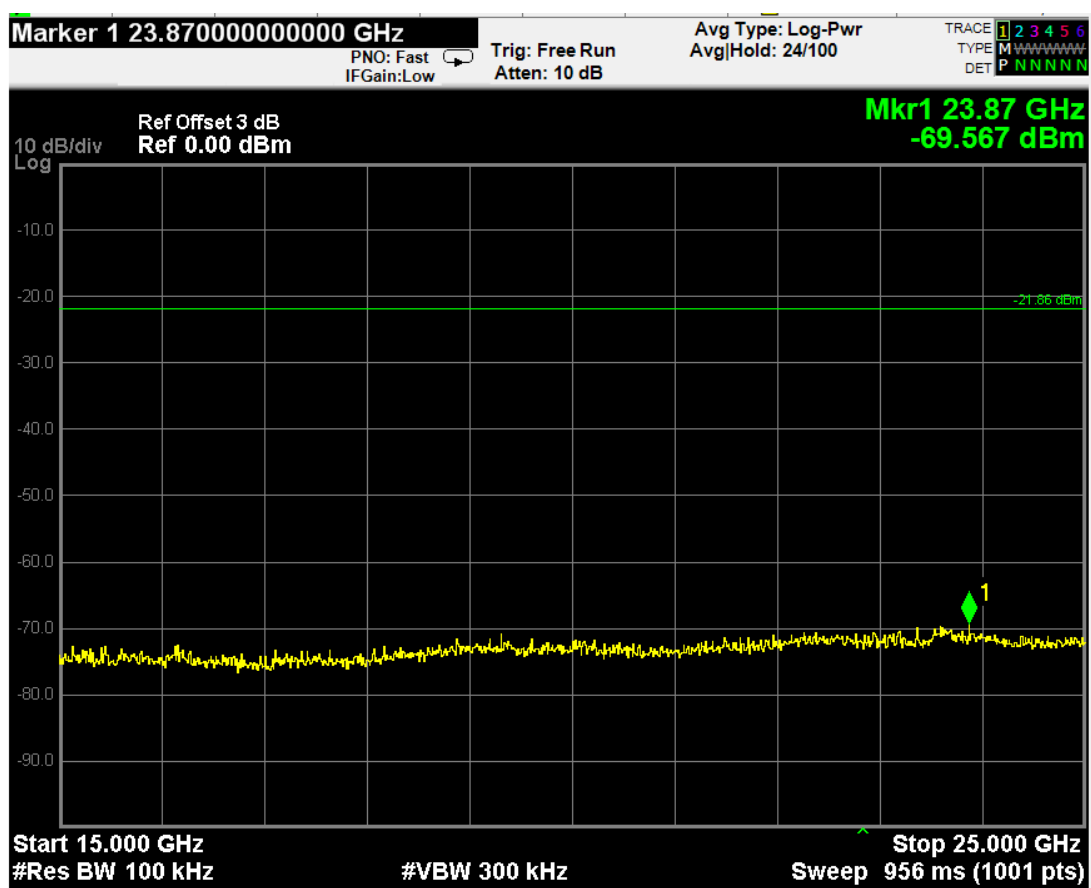




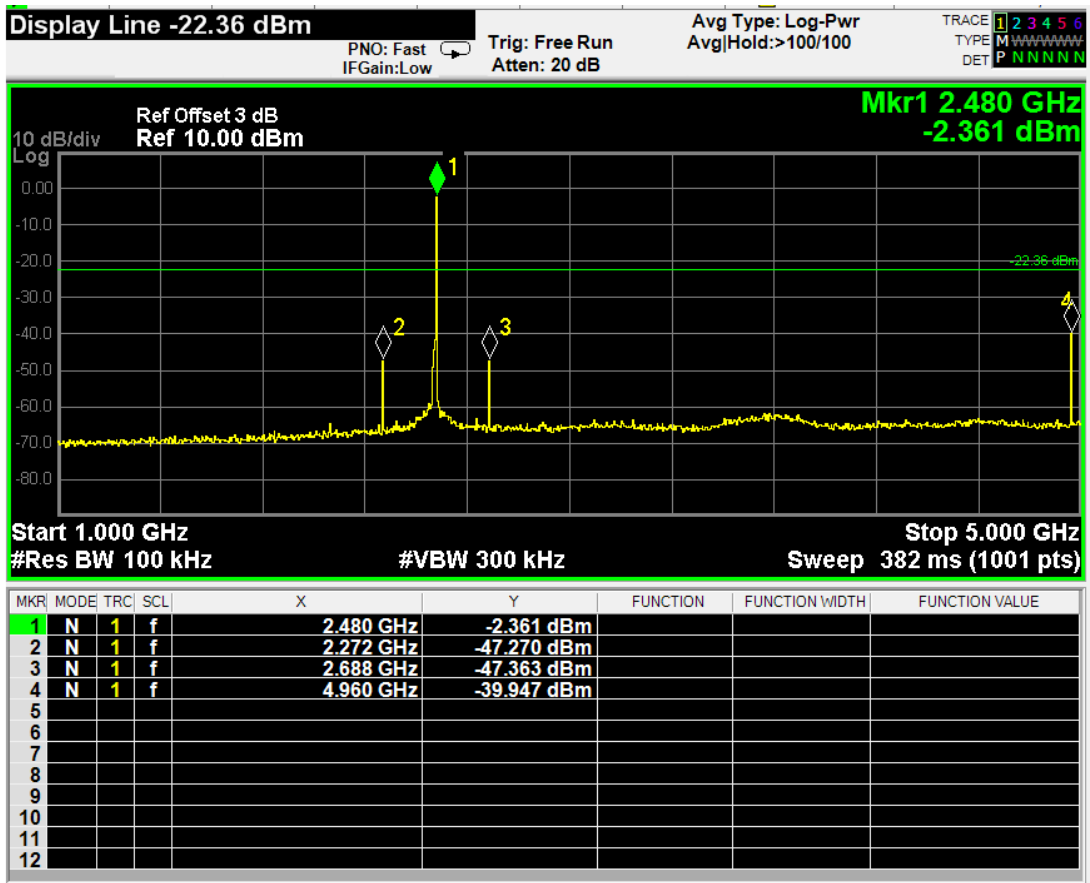
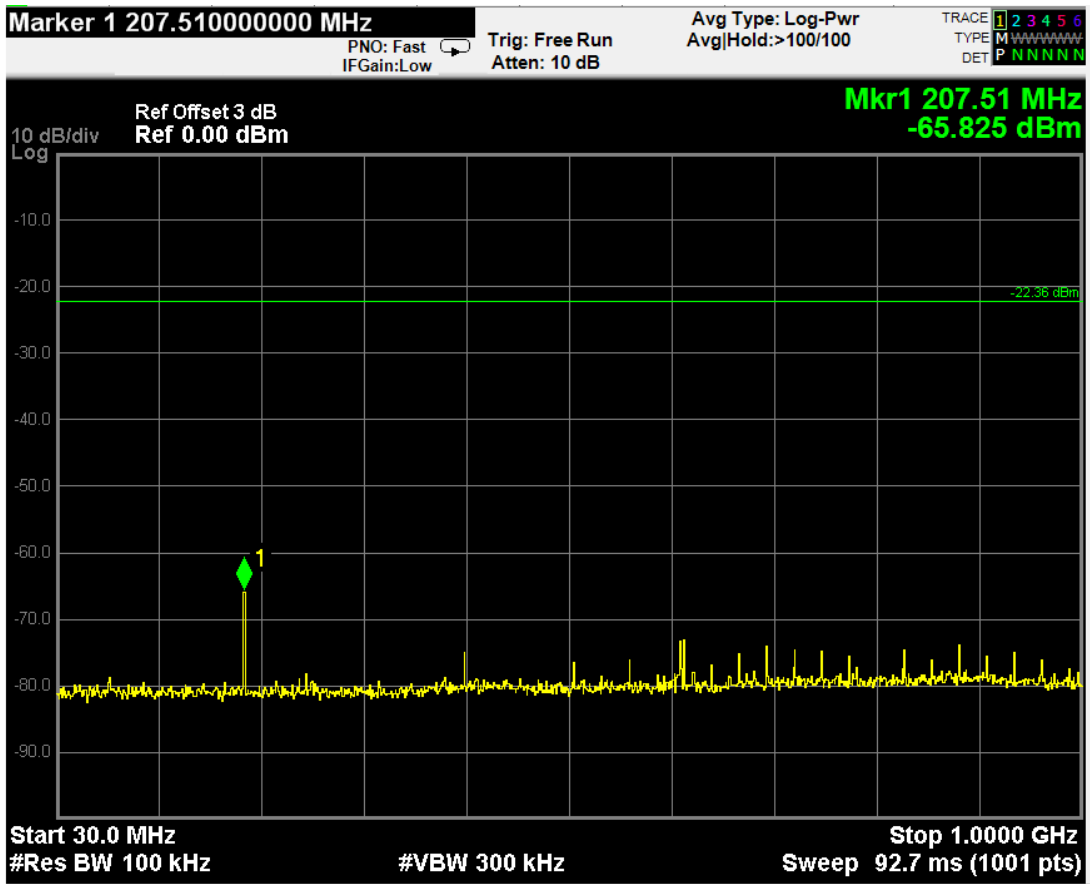
NON-EDR Ch 39 (2441 MHz)

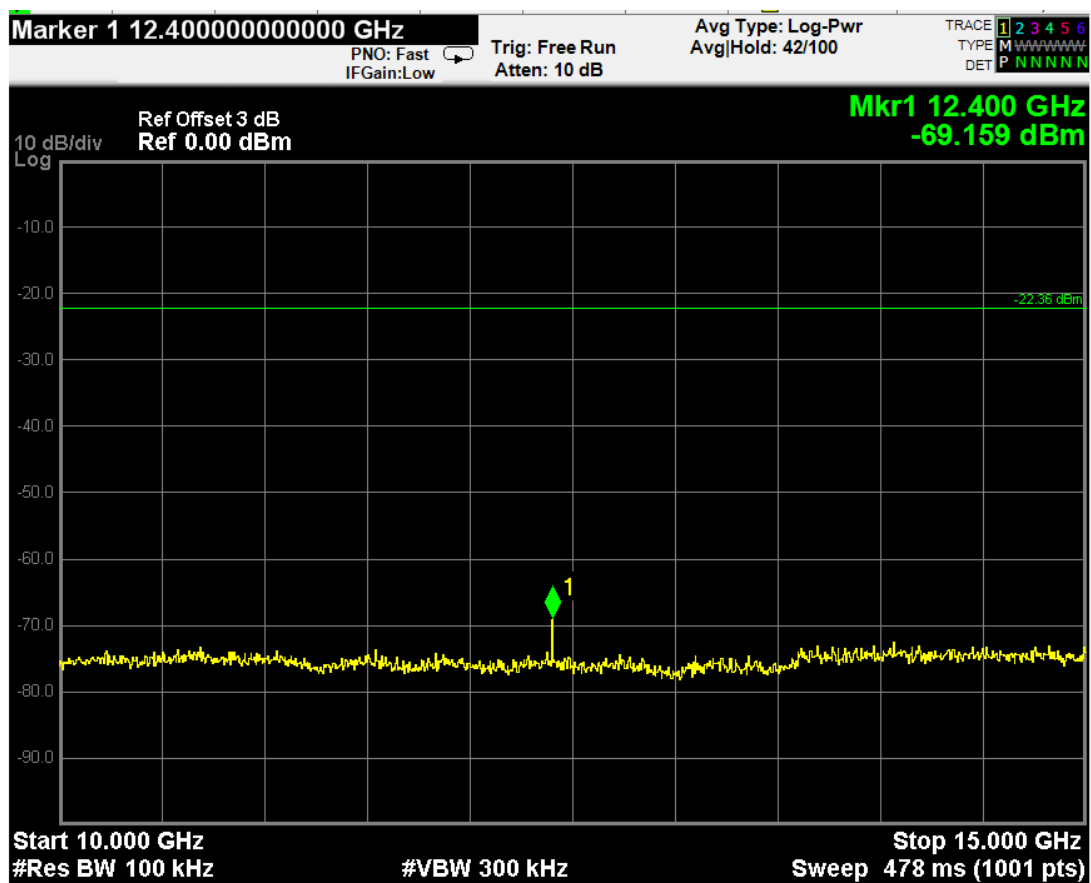
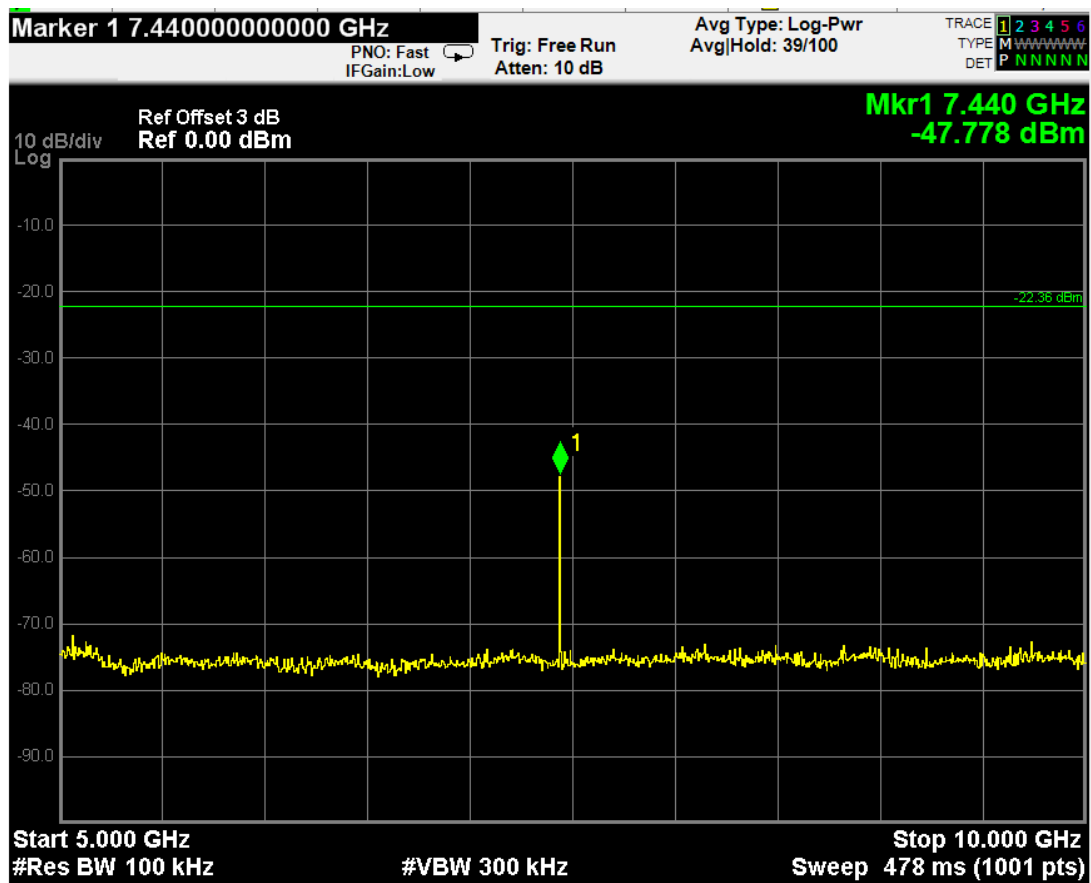


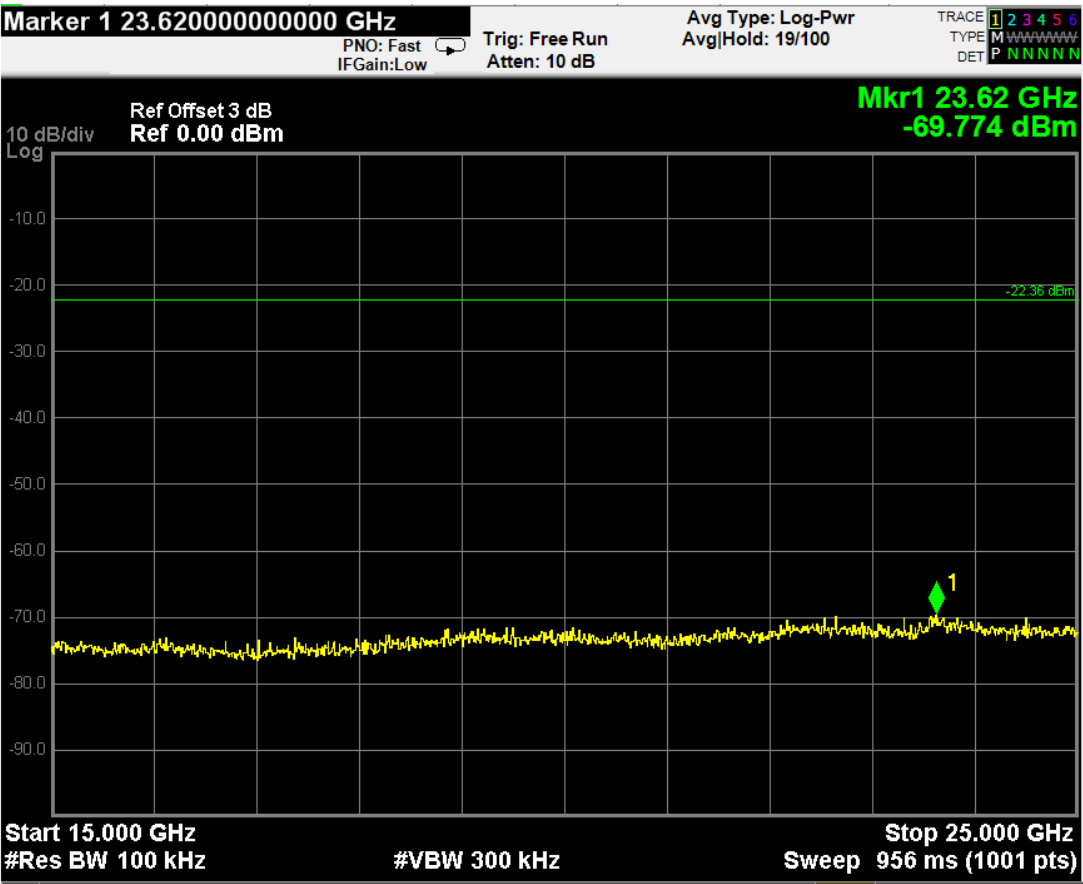




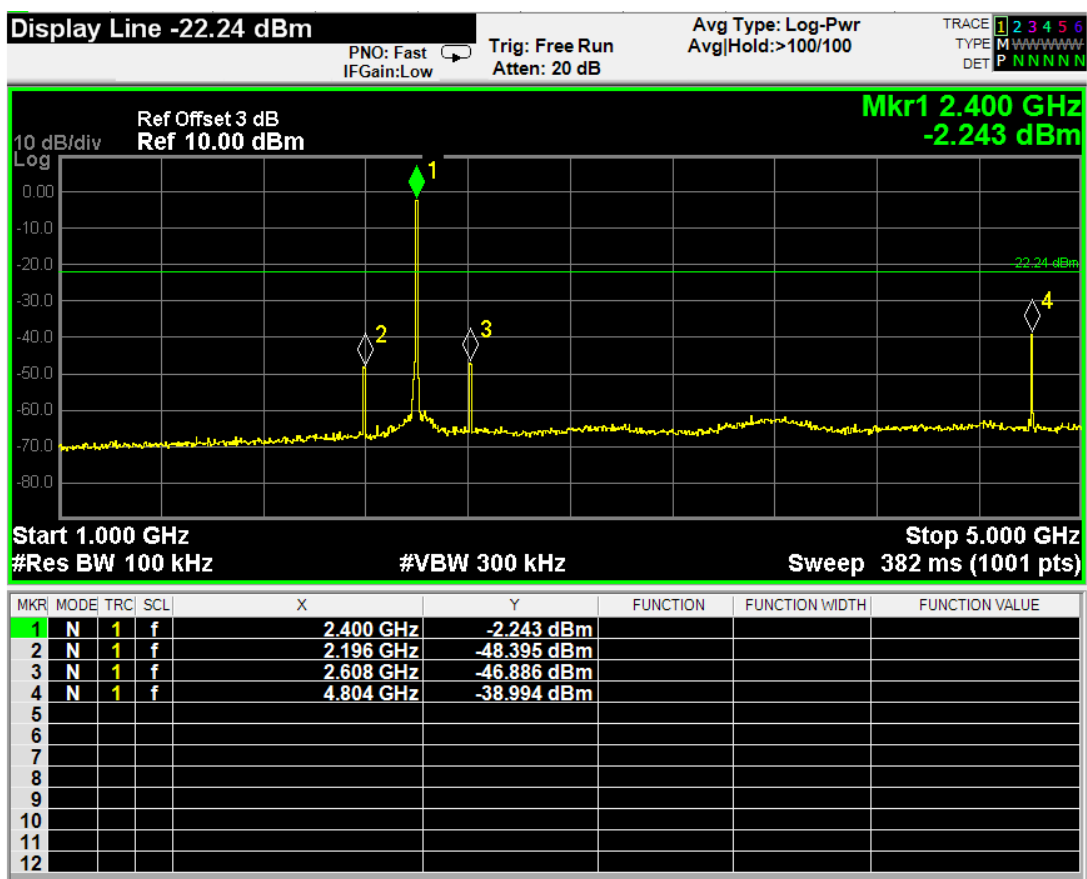
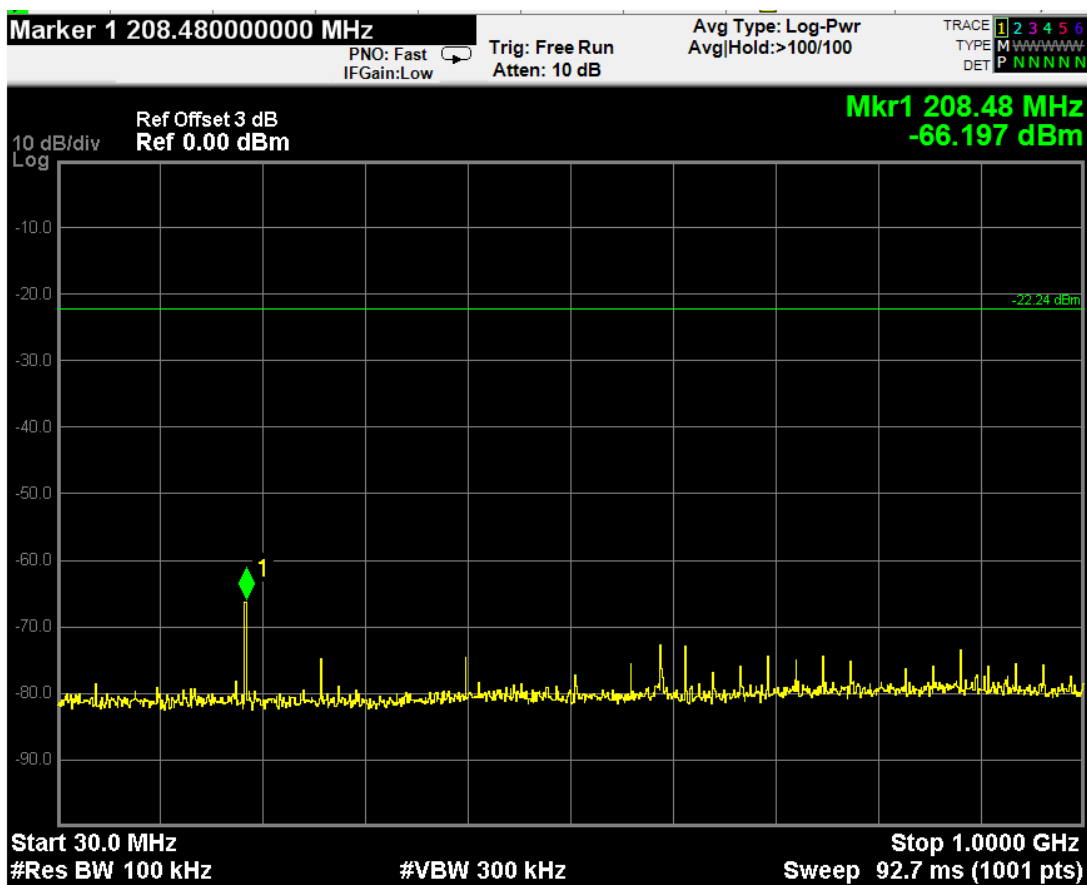
NON-EDR Ch 78 (2480 MHz)

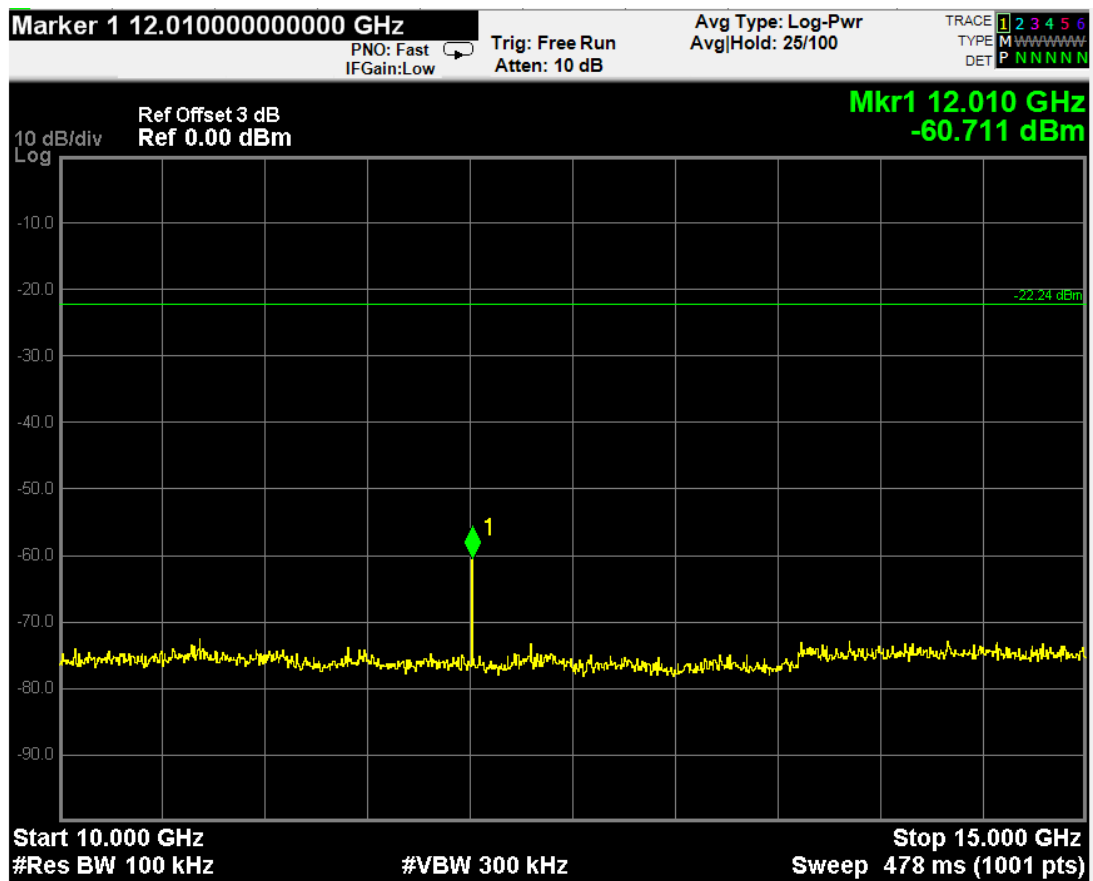
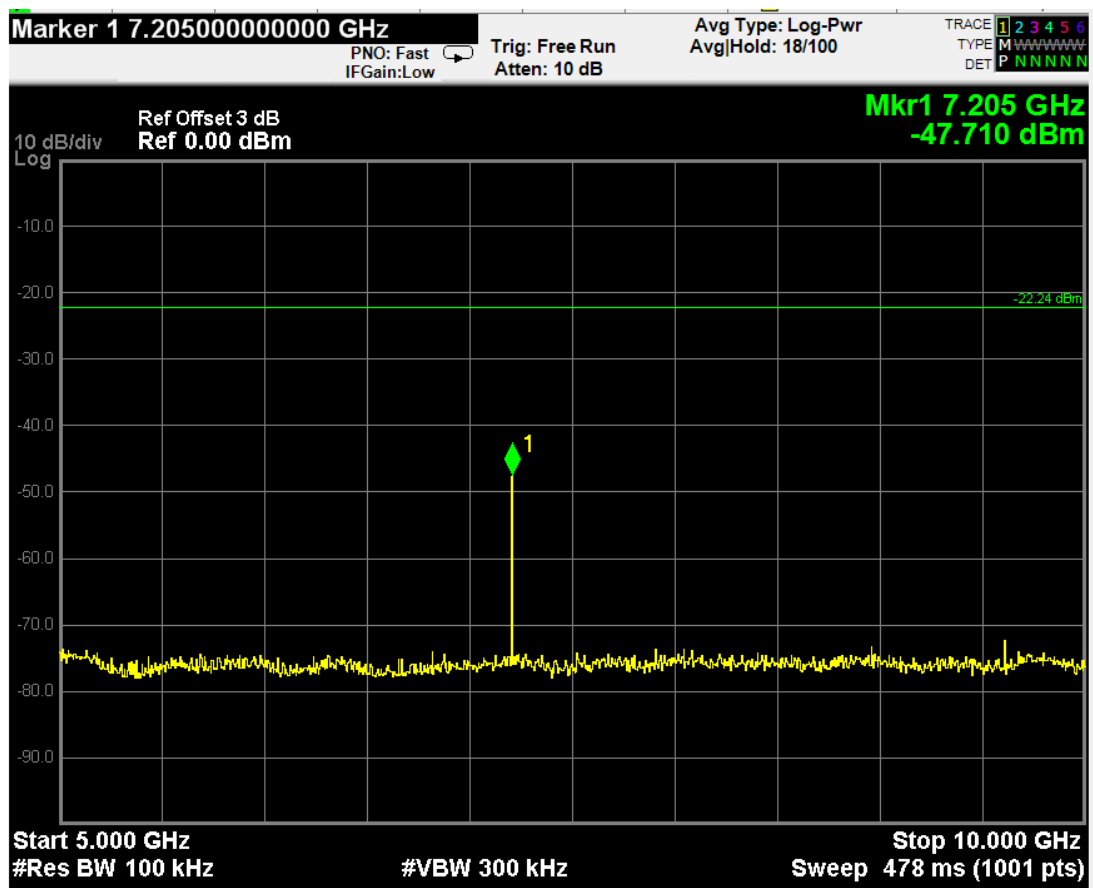


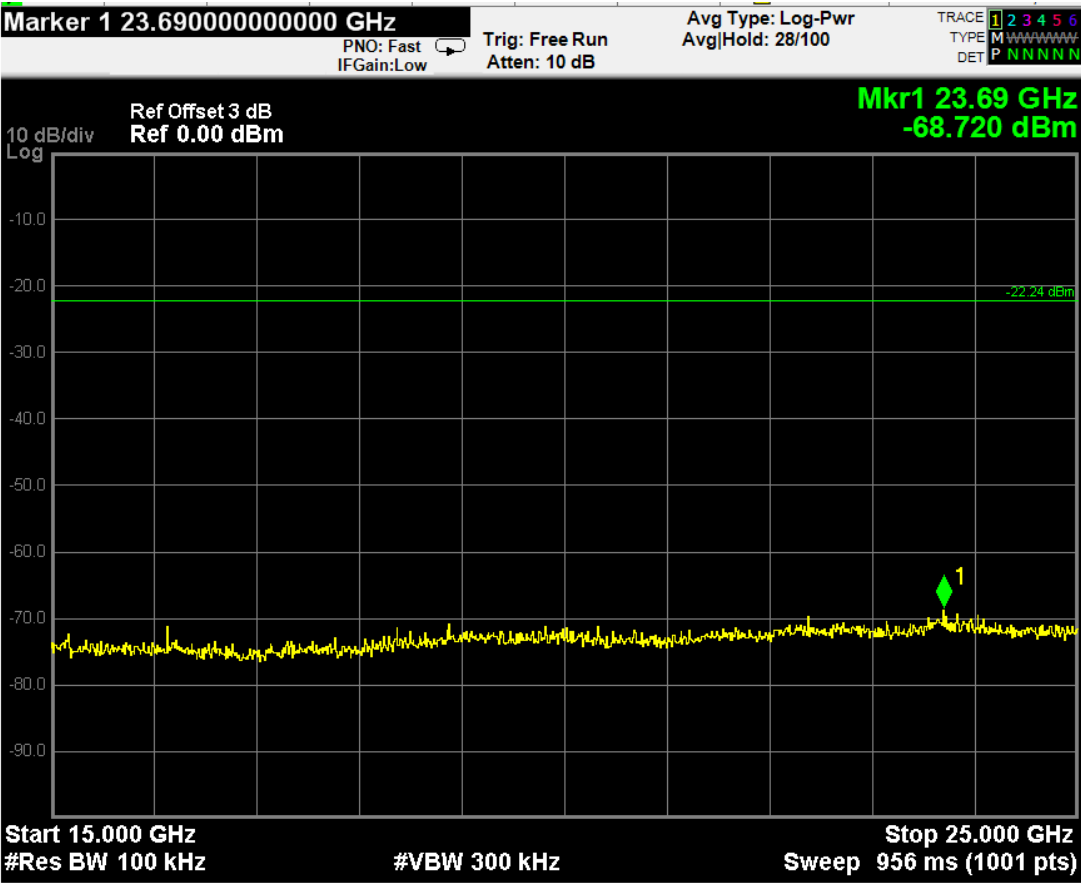




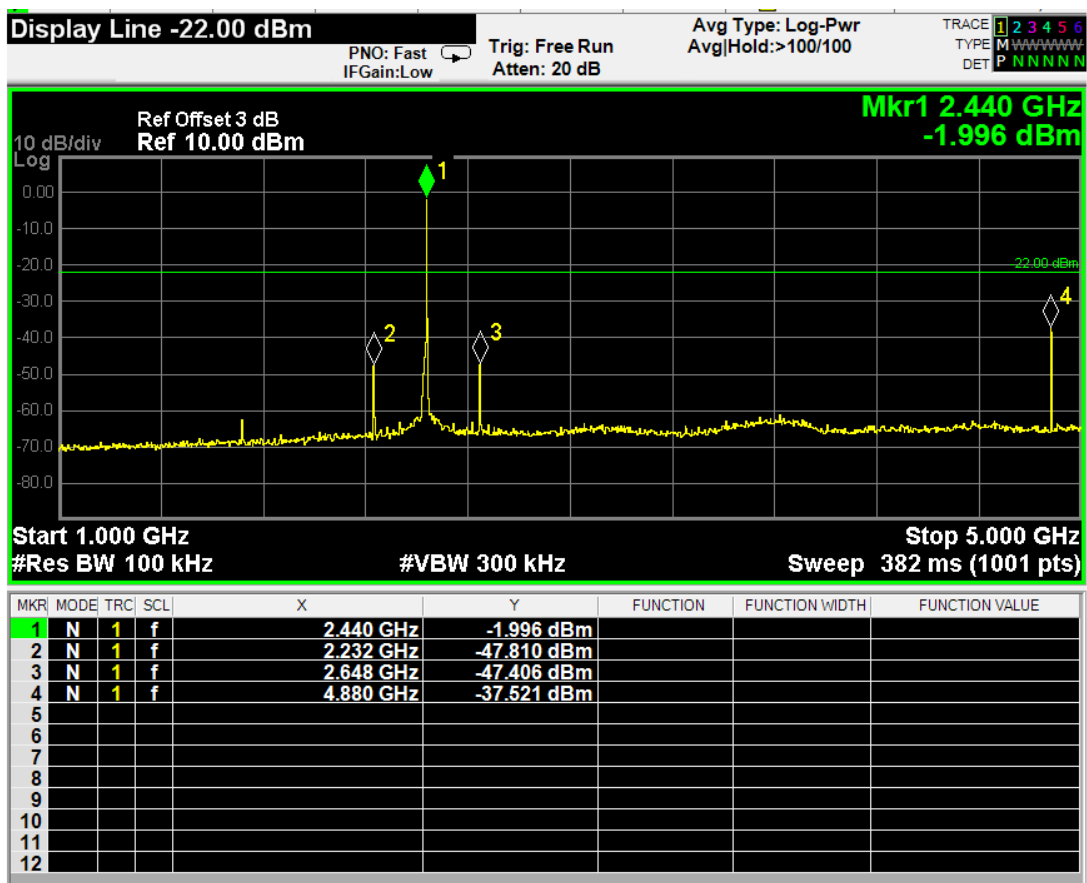
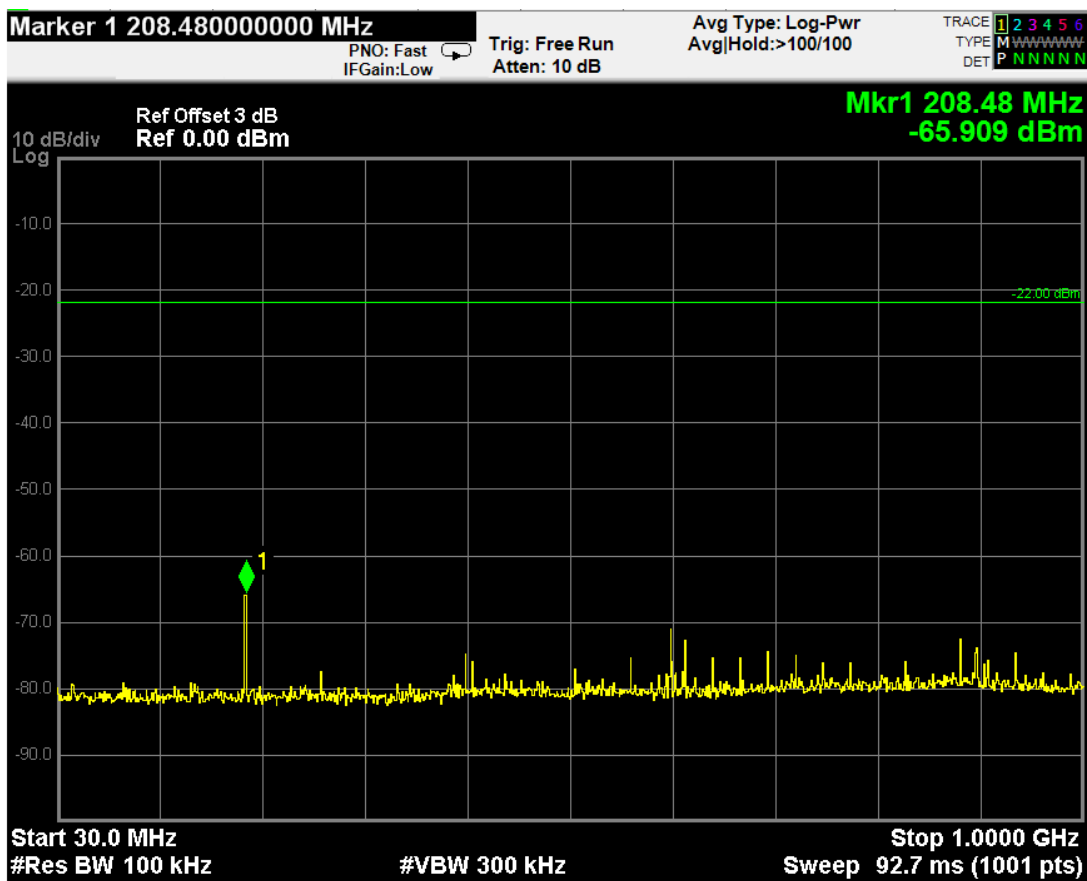
EDR Ch 00 (2402 MHz)

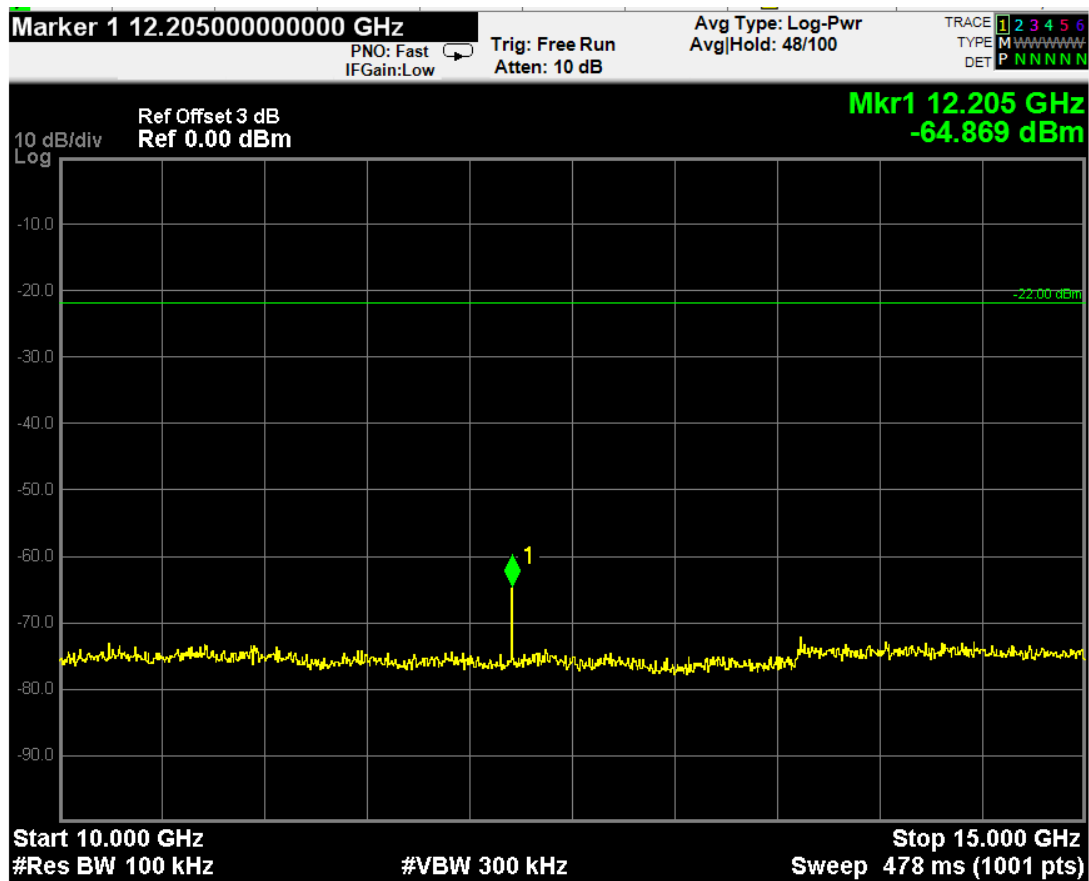
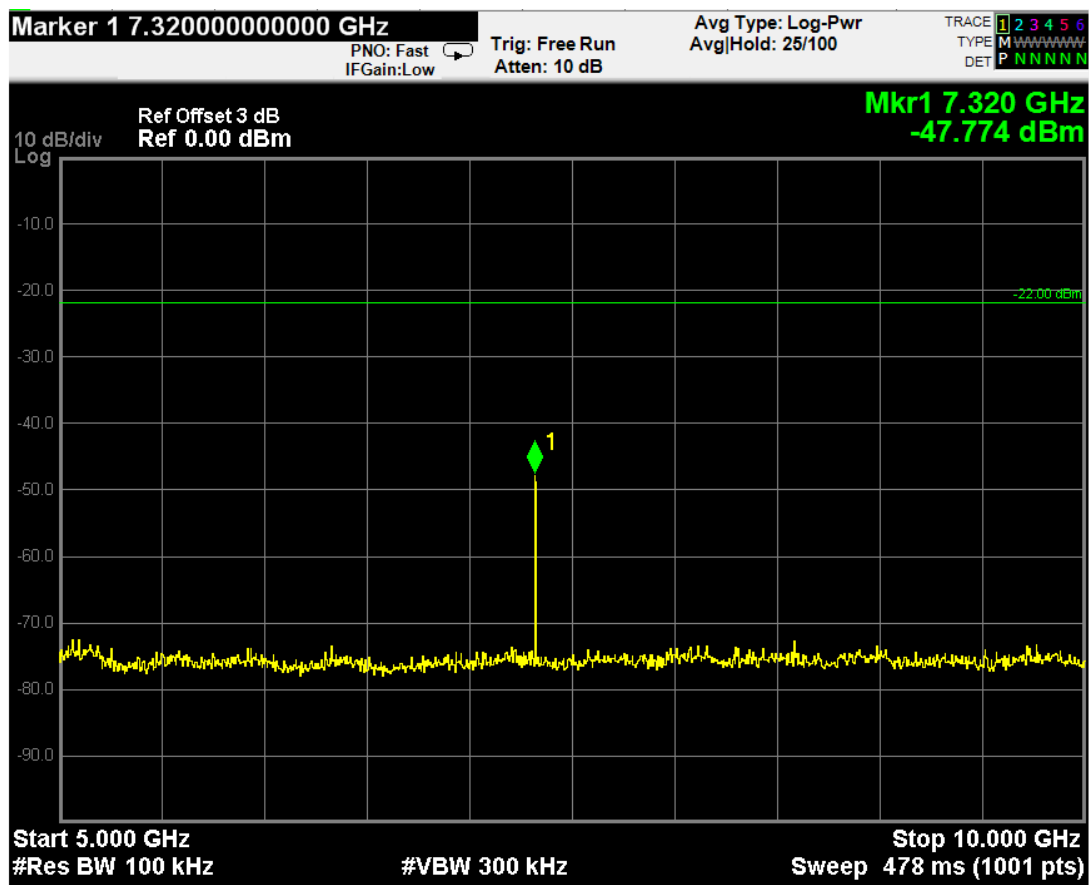


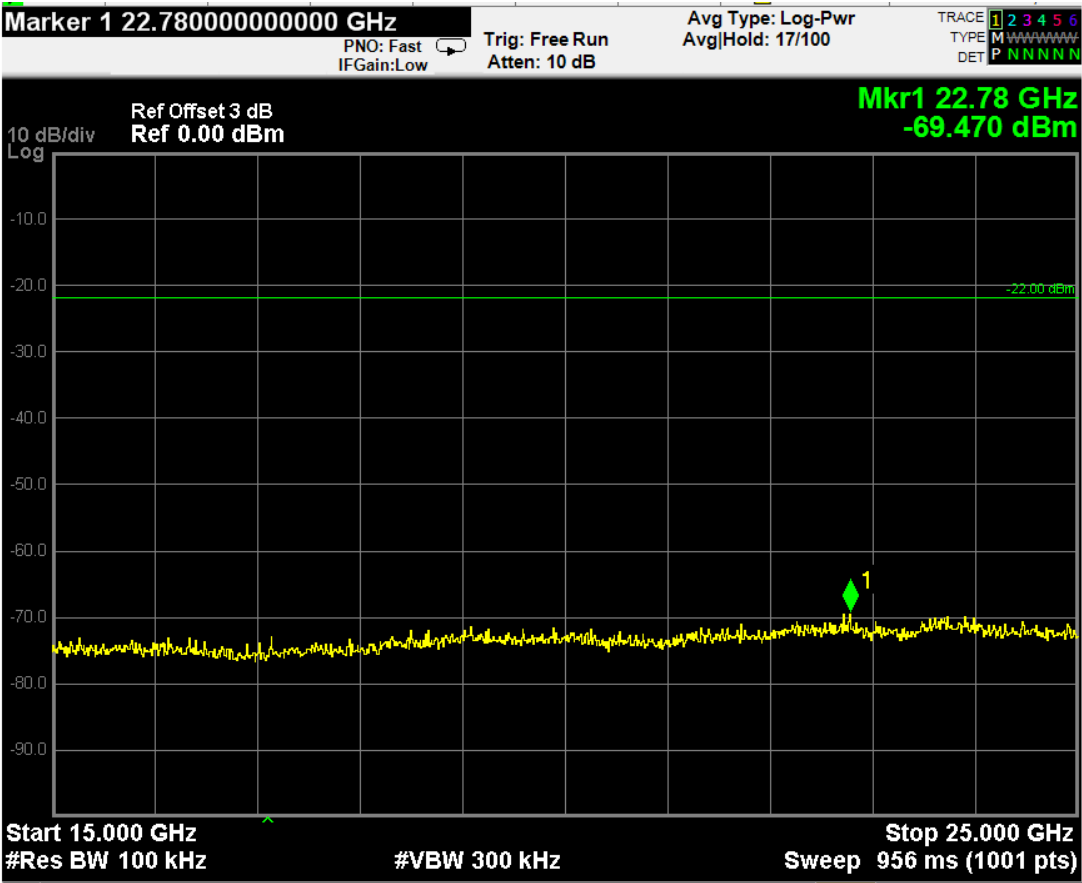




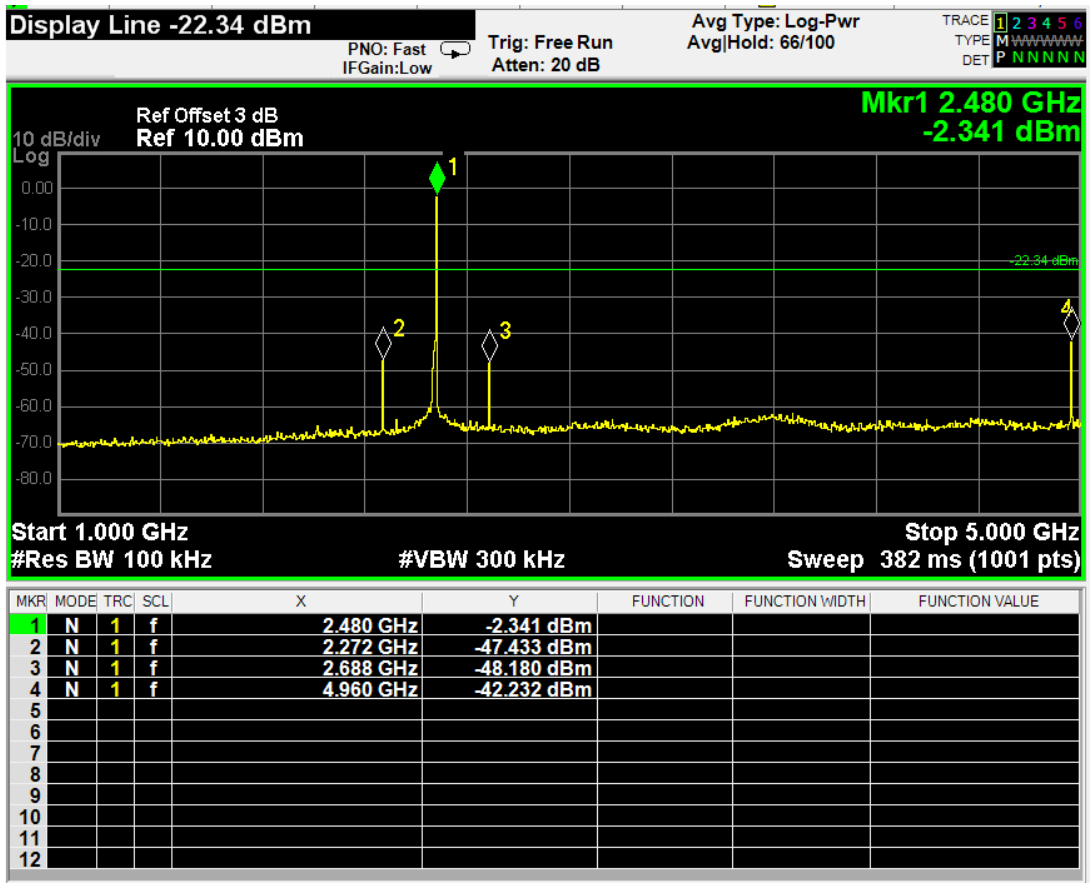
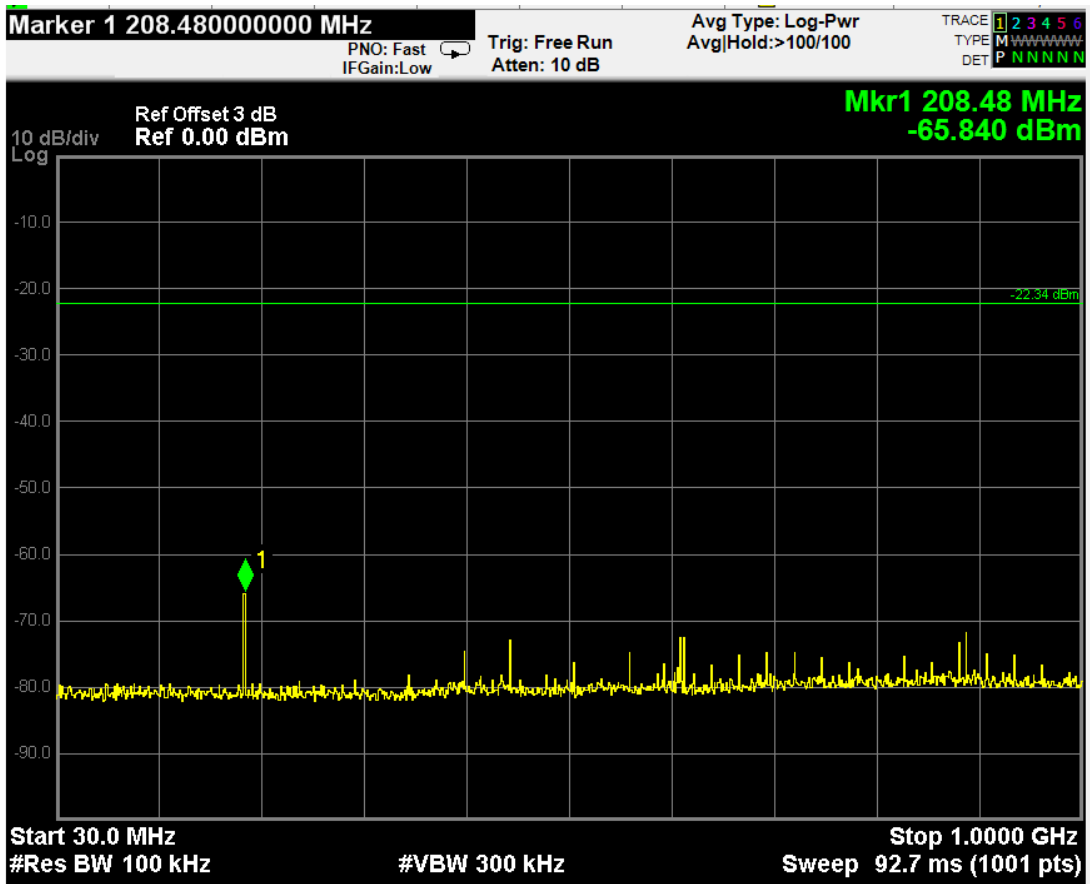
EDR Ch 39 (2441 MHz)

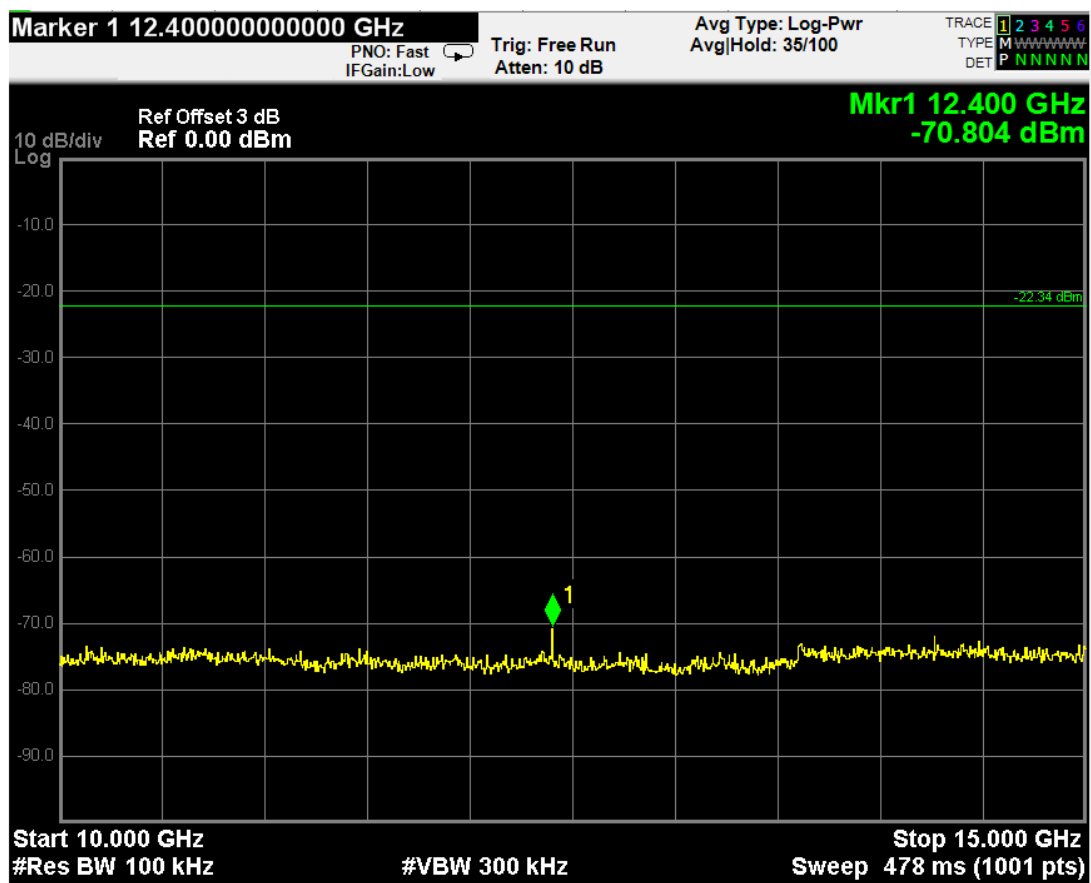
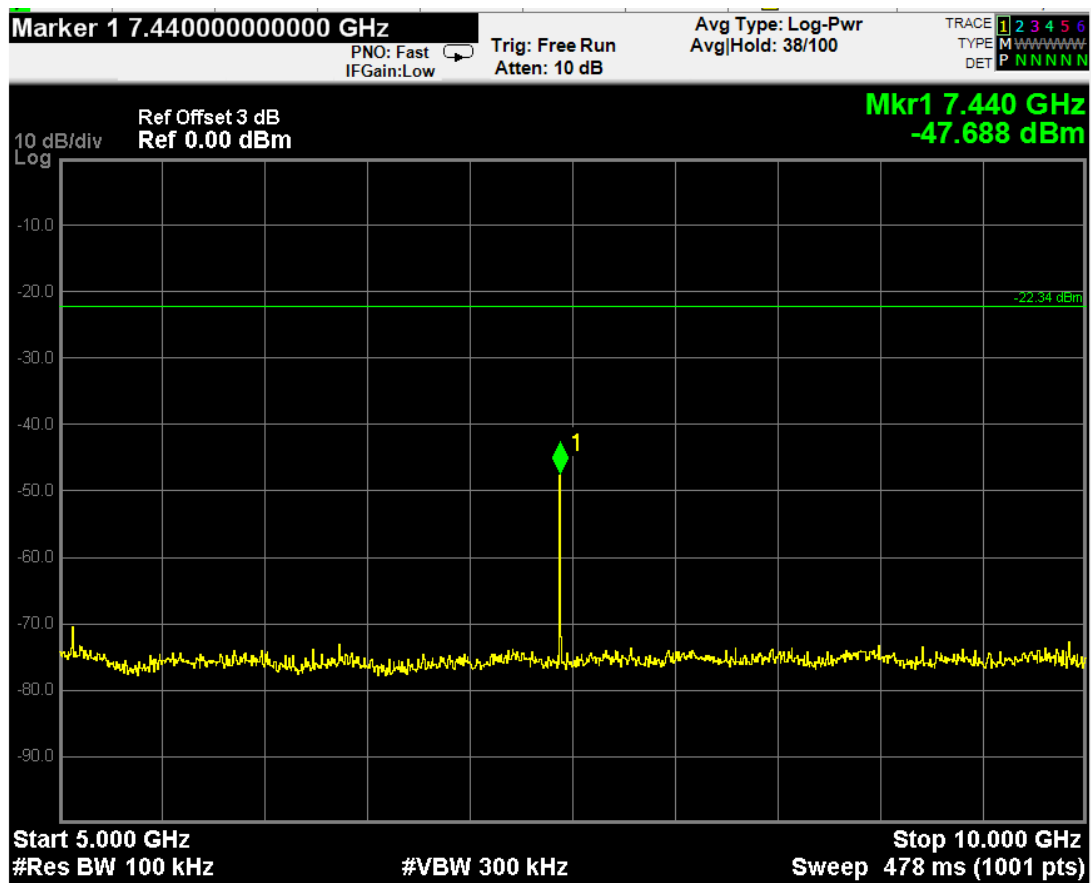


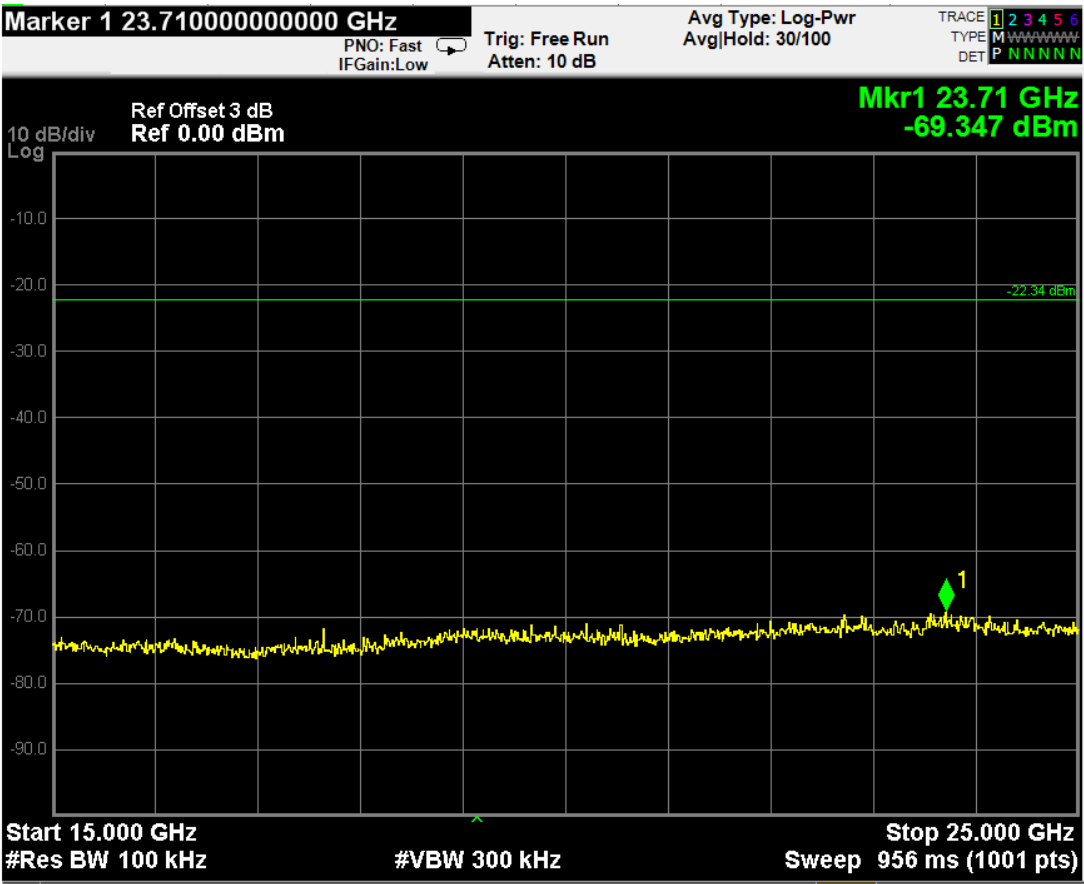




EDR Ch 78 (2480 MHz)







7 BAND-EDGE COMPLIANCE OF RF CONDUCTED EMISSIONS MEASUREMENT

7.1 Test Equipment

The following test equipment was used during the band edges measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	N9010A	MY52221182	Jun 14, 2013	Jun 14, 2014

7.2 Block Diagram of Test Setup

The same as section.4.2.

7.3 Specification Limits (§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, provided the transmitter demonstrates compliance with the peak conducted power limits.

7.4 Operating Condition of EUT

Enable the EUT to transmit data at different channel frequency individually.

7.5 Test Procedure

The transmitter output was connected to the spectrum analyzer. Set RBW of spectrum analyzer to 100kHz and VBW to 300kHz with span wide enough to fully capture the emission being measured.

The test procedure is defined in DA 00-705.

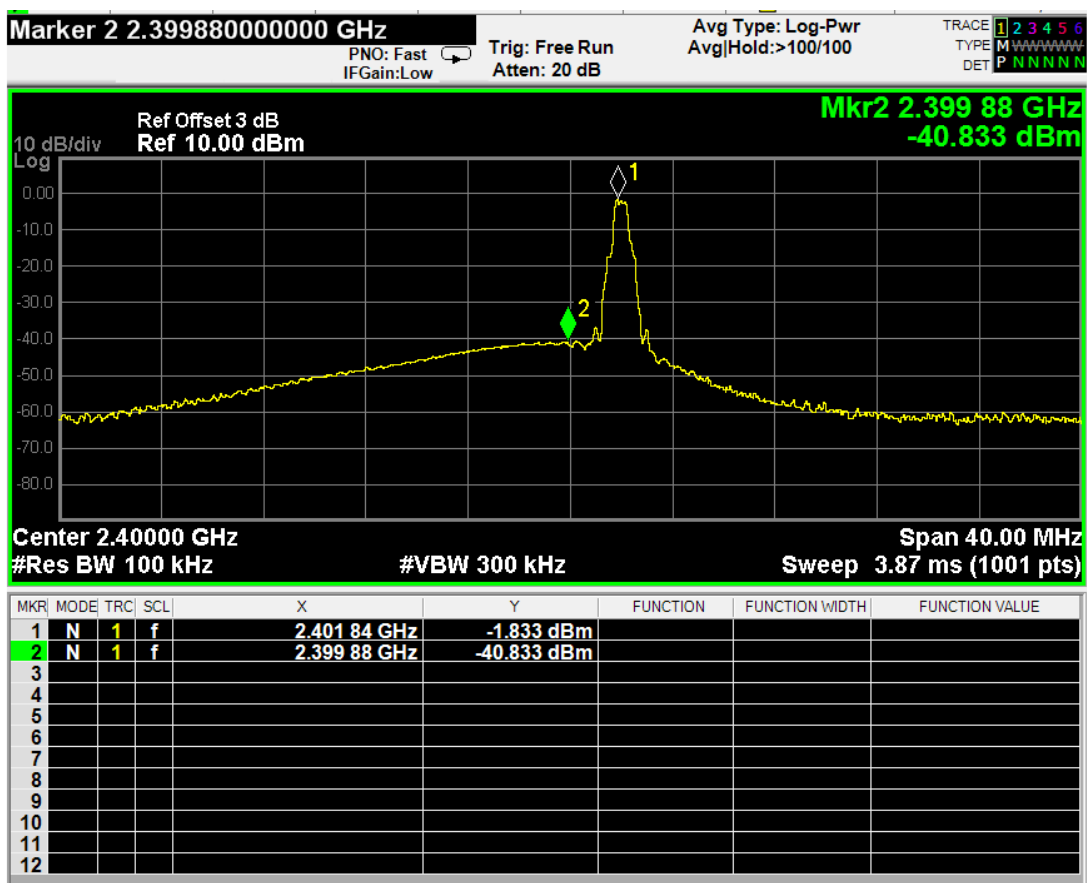
7.6 Test Results

PASSED. All the test results are attached in next pages.

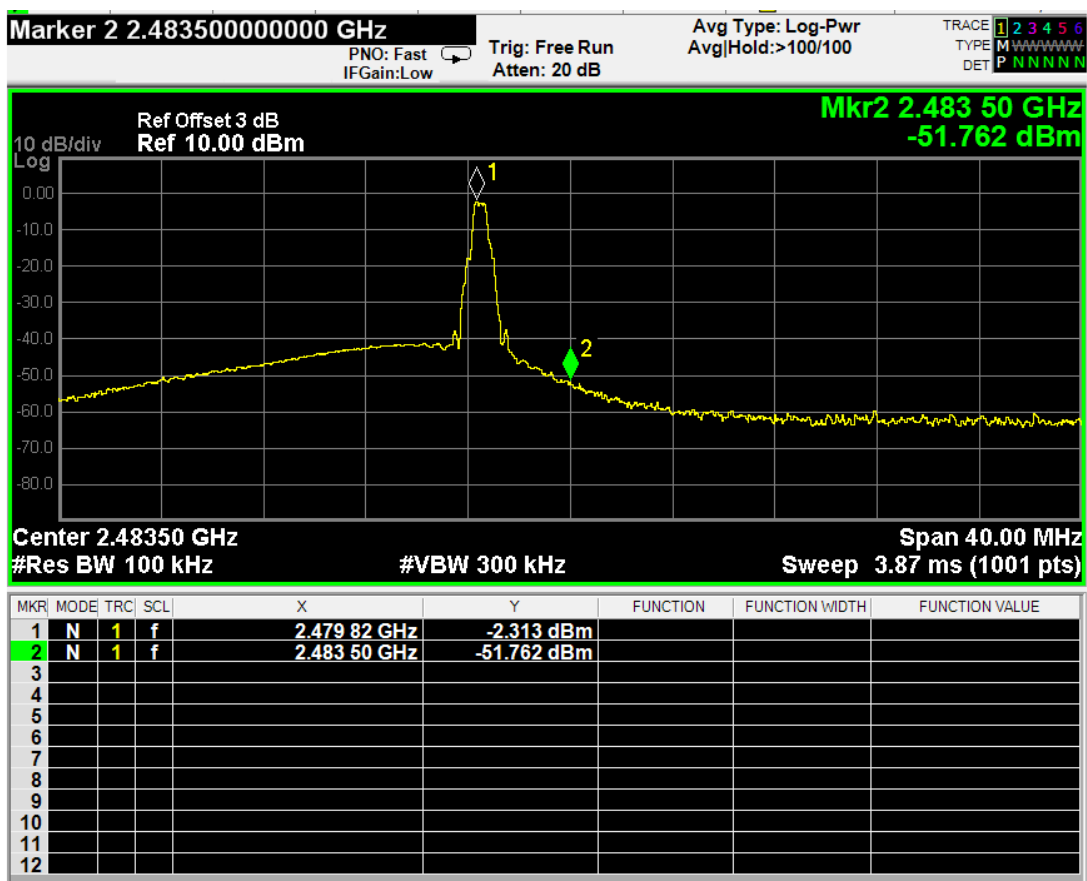
(Test Date: Feb. 10, 2014 Temperature: 21°C Humidity: 42 %)

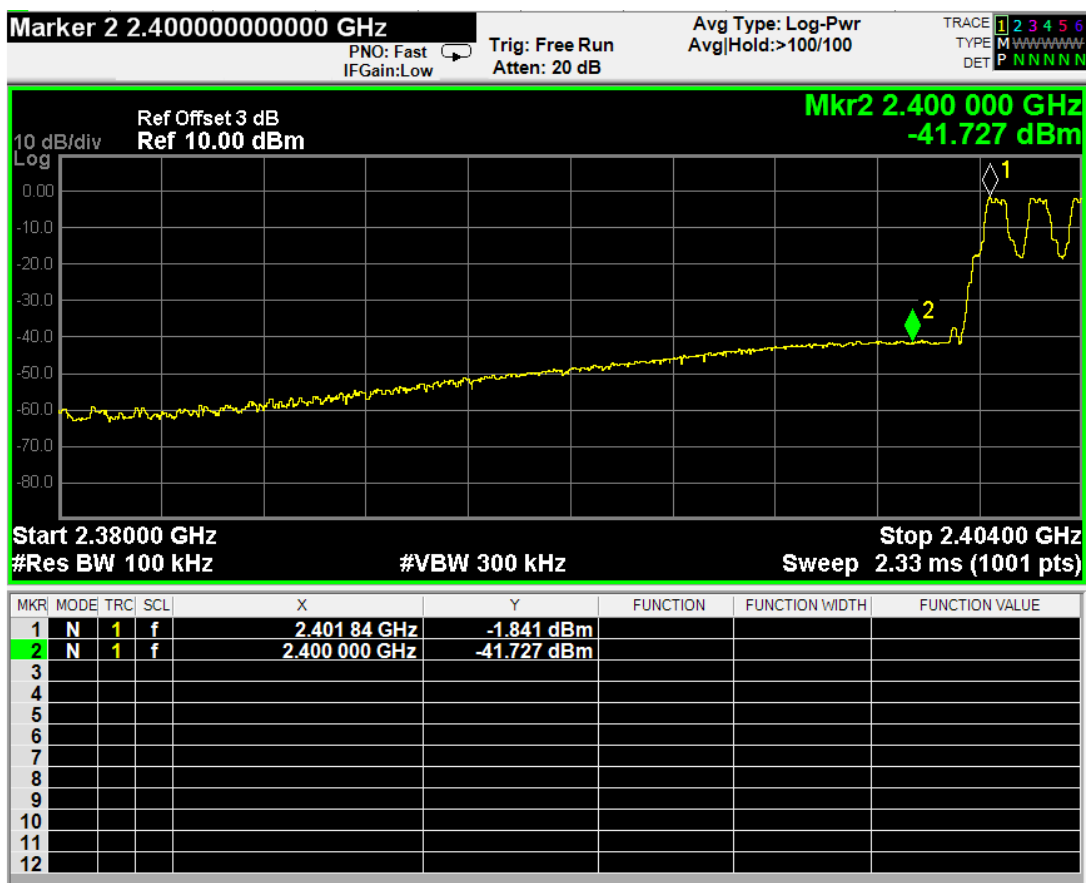
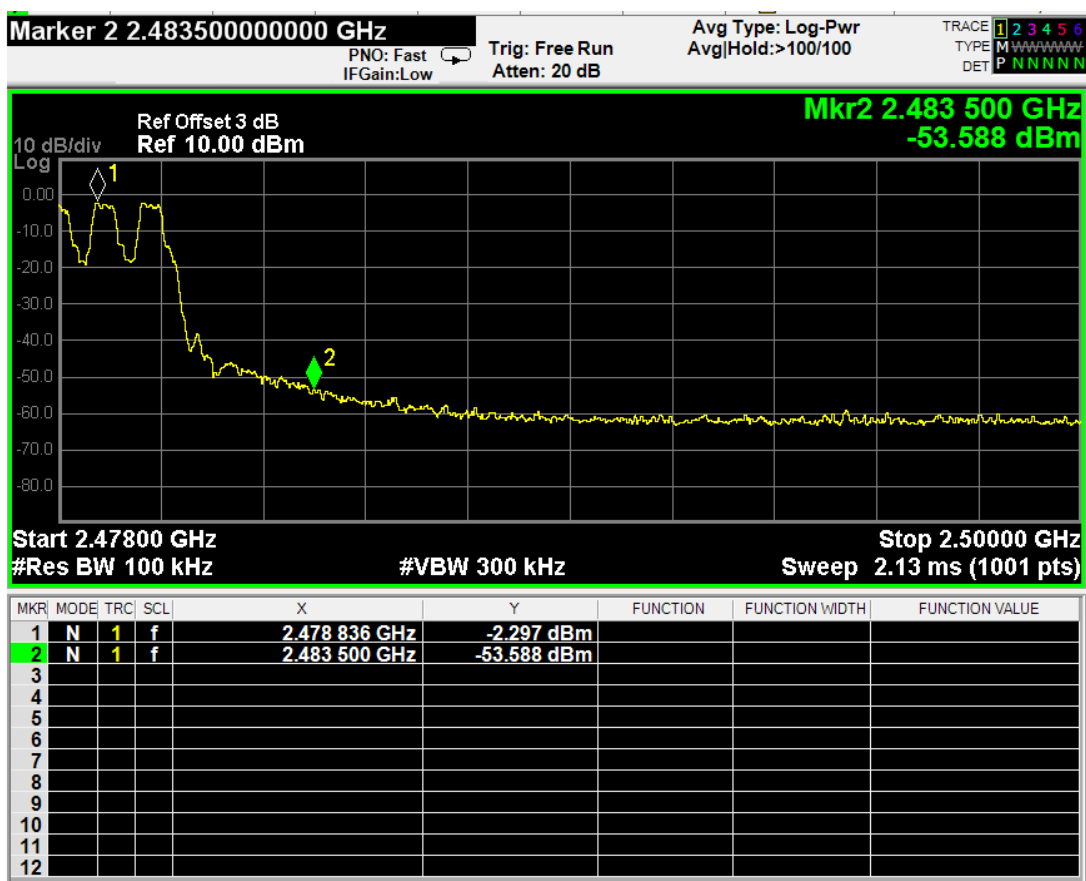
Location	Channel	Frequency	Delta Marker (worst)	Data Page	Result
Below Band Edge	00	2402 MHz	38.831 dB	P50-51	More than 20 dB below the highest level of the desired power
Upper Band Edge	78	2480 MHz	46.123 dB	P52-53	

Ch00 2402MHz (Below Edge 2400 MHz) NON-EDR

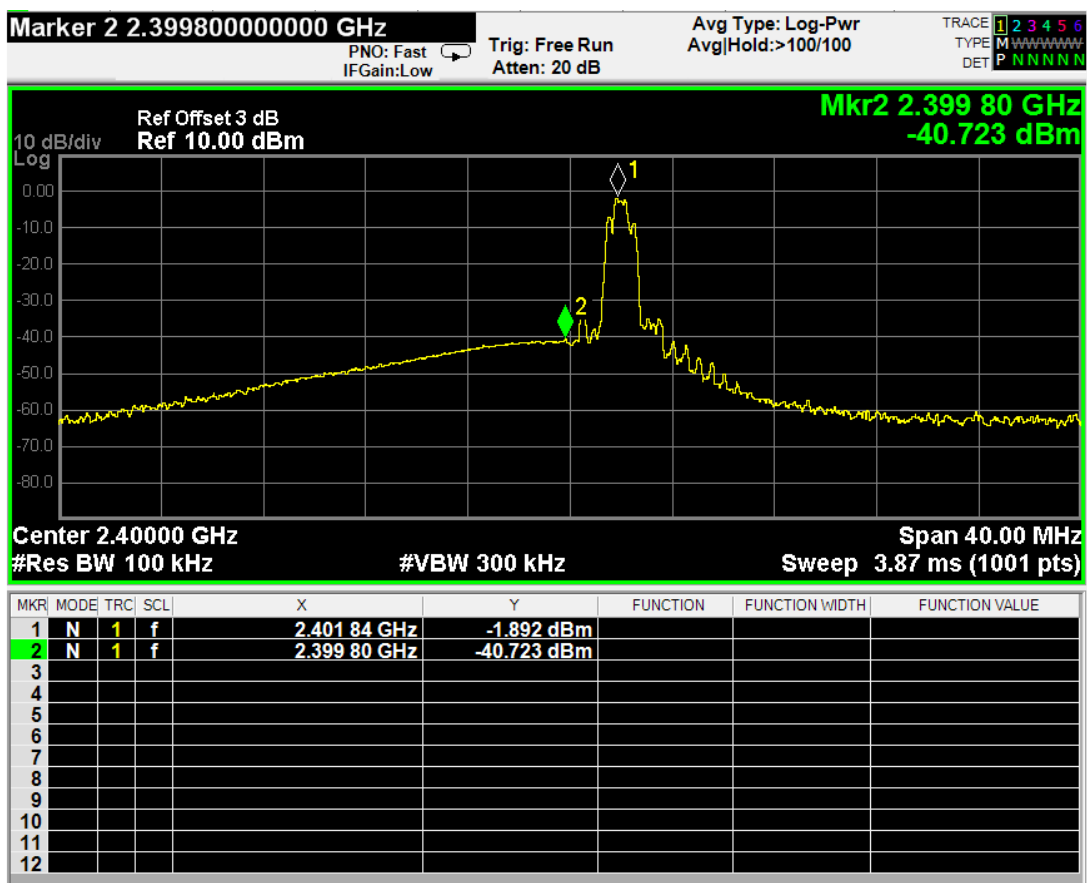


Ch78 2480MHz (Upper Edge 2483.5 MHz) NON-EDR



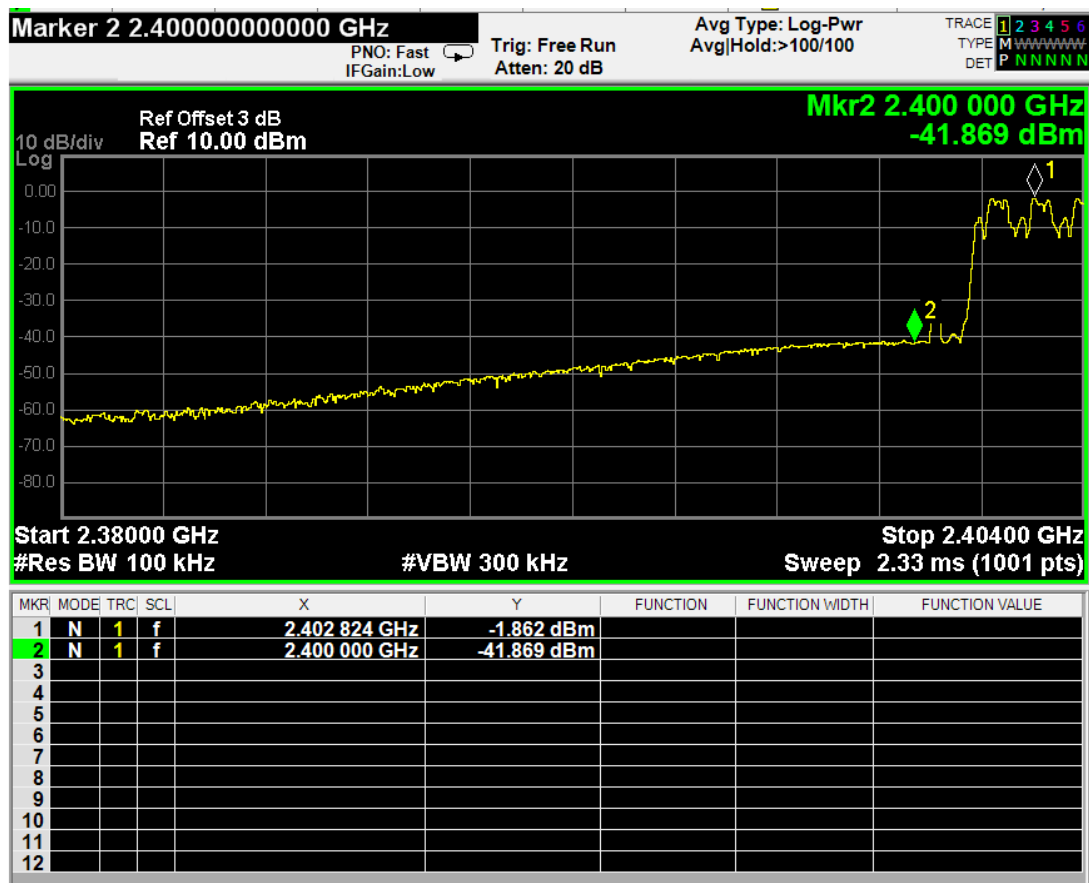
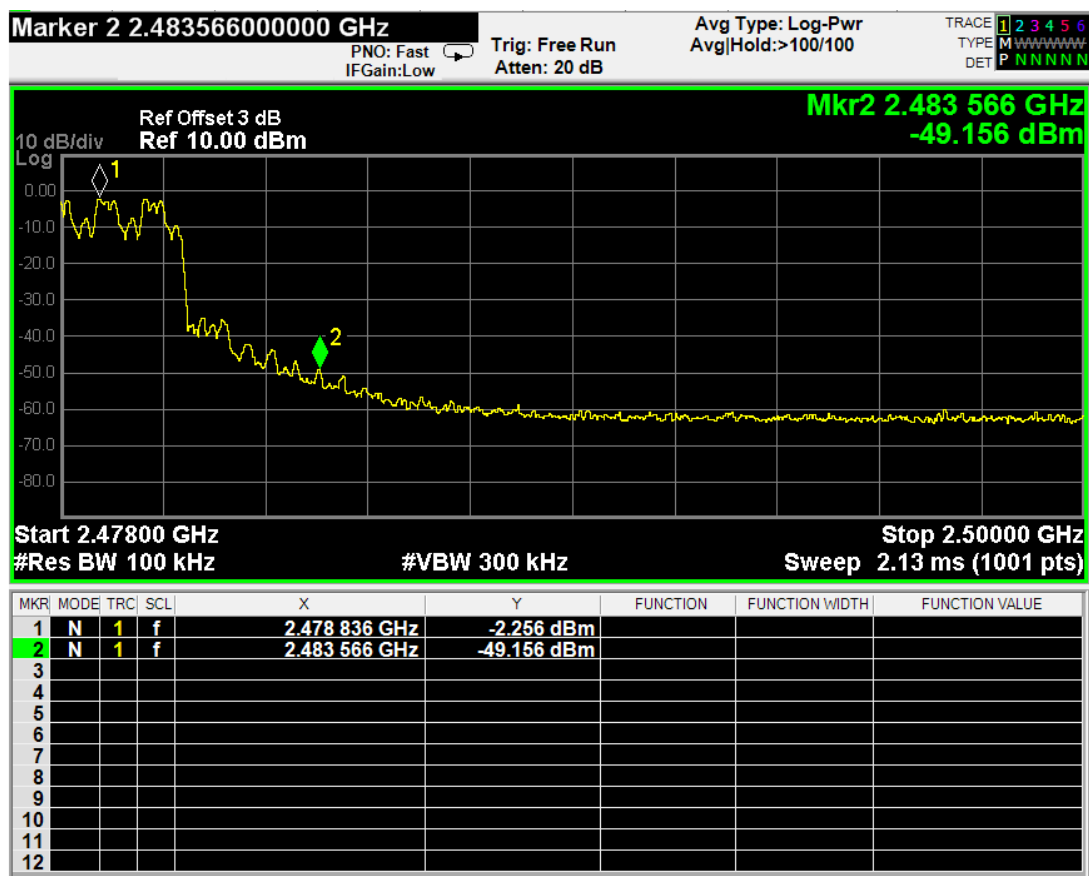
Ch00 2402MHz (Below Edge 2400 MHz) NON-EDR HOPPING**Ch78 2480MHz (Upper Edge 2483.5 MHz) NON-EDR HOPPING**

Ch00 2402MHz (Below Edge 2400 MHz) EDR



Ch78 2480MHz (Upper Edge 2483.5 MHz) EDR



Ch00 2402MHz (Below Edge 2400 MHz) EDR HOPPING**Ch78 2480MHz (Upper Edge 2483.5 MHz) EDR HOPPING**

8 NUMBER OF HOPPING FREQUENCIES

MEASUREMENT

8.1 Test Equipment

The following test equipment was used during the power spectral density measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	N9010A	MY52221182	Jun 14, 2013	Jun 14, 2014

8.2 Block Diagram of Test Setup

The same as section.4.2.

8.3 Specification Limits (§15.247(a)(1)(iii))

Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.

8.4 Operating Condition of EUT

Enable the EUT hopping function.

8.5 Test Procedure

The transmitter output was connected to the spectrum analyzer. The spectrum analyzer was set as RBW = 300kHz, VBW = 300kHz, count the number of hopping frequencies used and recorded.

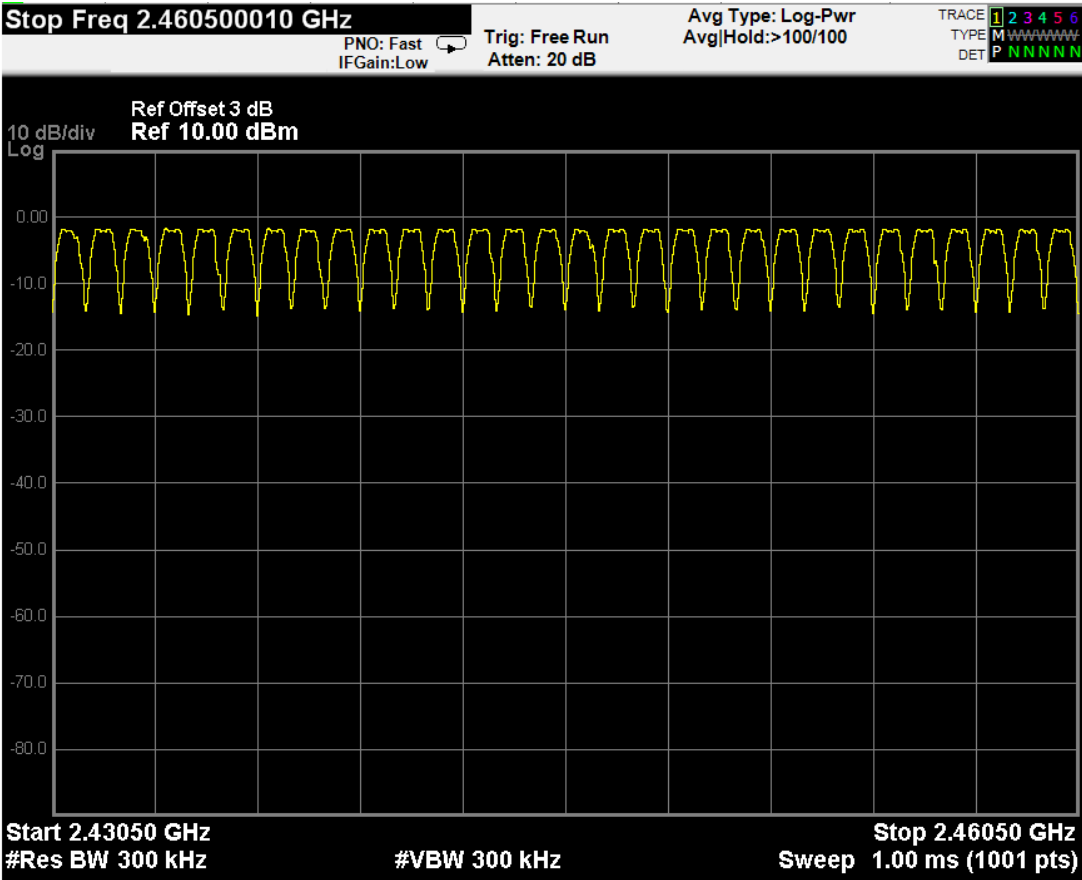
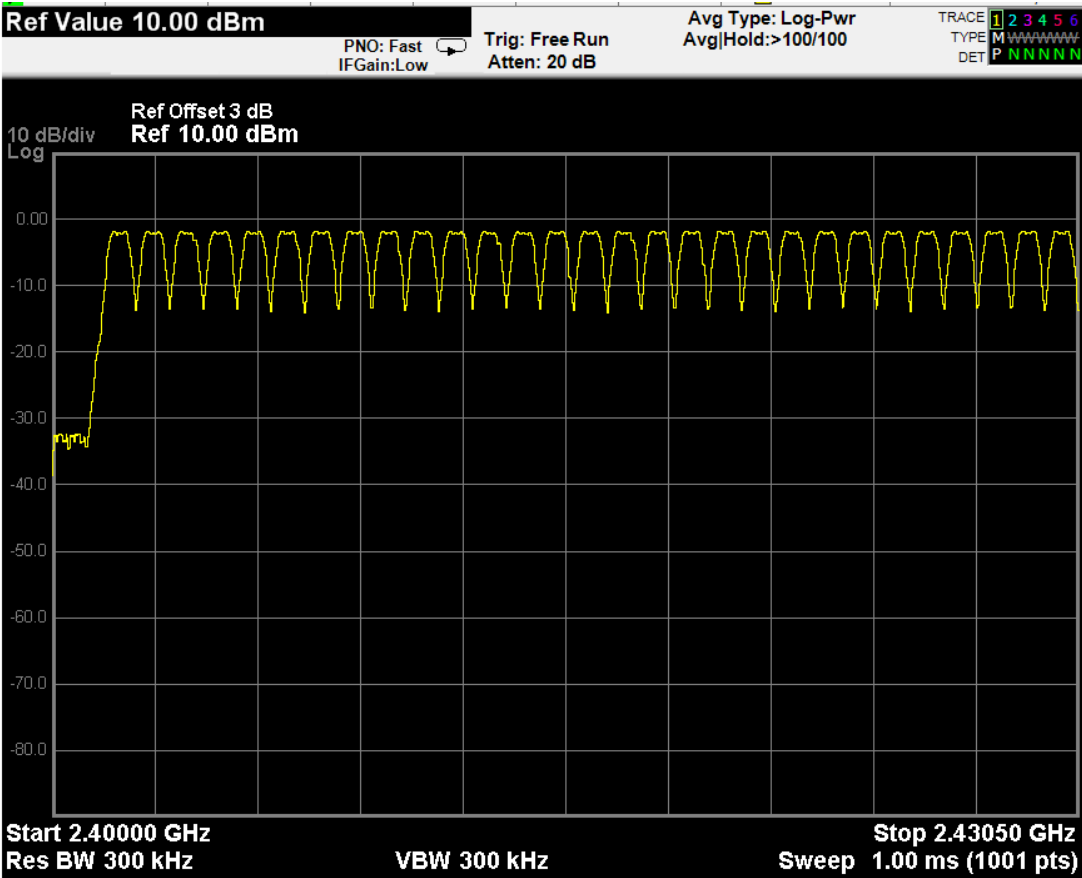
The test procedure is defined in DA 00-705.

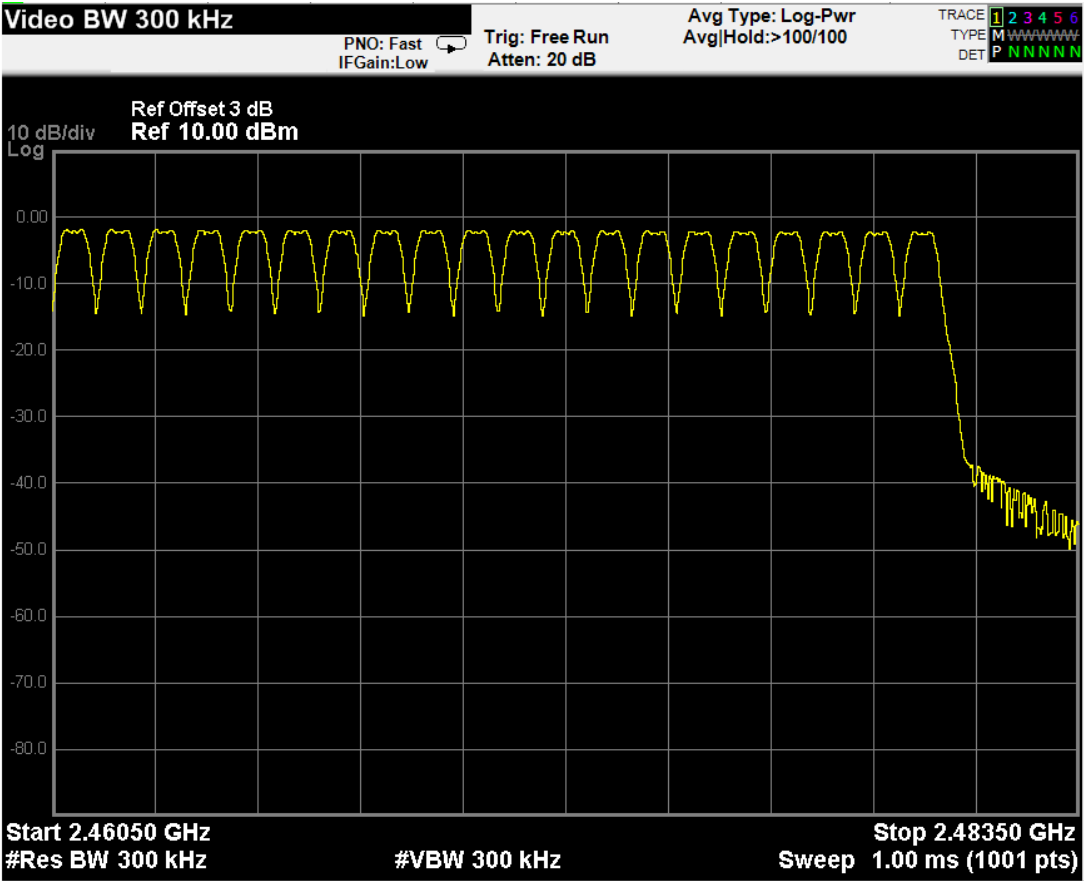
8.6 Test Results

PASSED. All the test results are attached in next pages.

(Test Date: Feb. 12, 2014 Temperature: 21°C Humidity: 42 %)

Result	Limit	Conclusion
79	> 15	Pass





9 CARRIER FREQUENCY SEPARATION

MEASUREMENT

9.1 Test Equipment

The following test equipment was used during the power spectral density measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	N9010A	MY52221182	Jun 14, 2013	Jun 14, 2014

9.2 Block Diagram of Test Setup

The same as section.4.2.

9.3 Specification Limits (§15.247(a)(1))

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

9.4 Operating Condition of EUT

Enable the EUT hopping function.

9.5 Test Procedure

The transmitter output was connected to the spectrum analyzer. The spectrum analyzer was set as RBW = 100kHz, VBW = 300kHz, span = wide enough to capture the peaks of two adjacent channels. Use the marker-delta function to determine the separation between the peaks of the adjacent channels.

The test procedure is defined in DA 00-705.

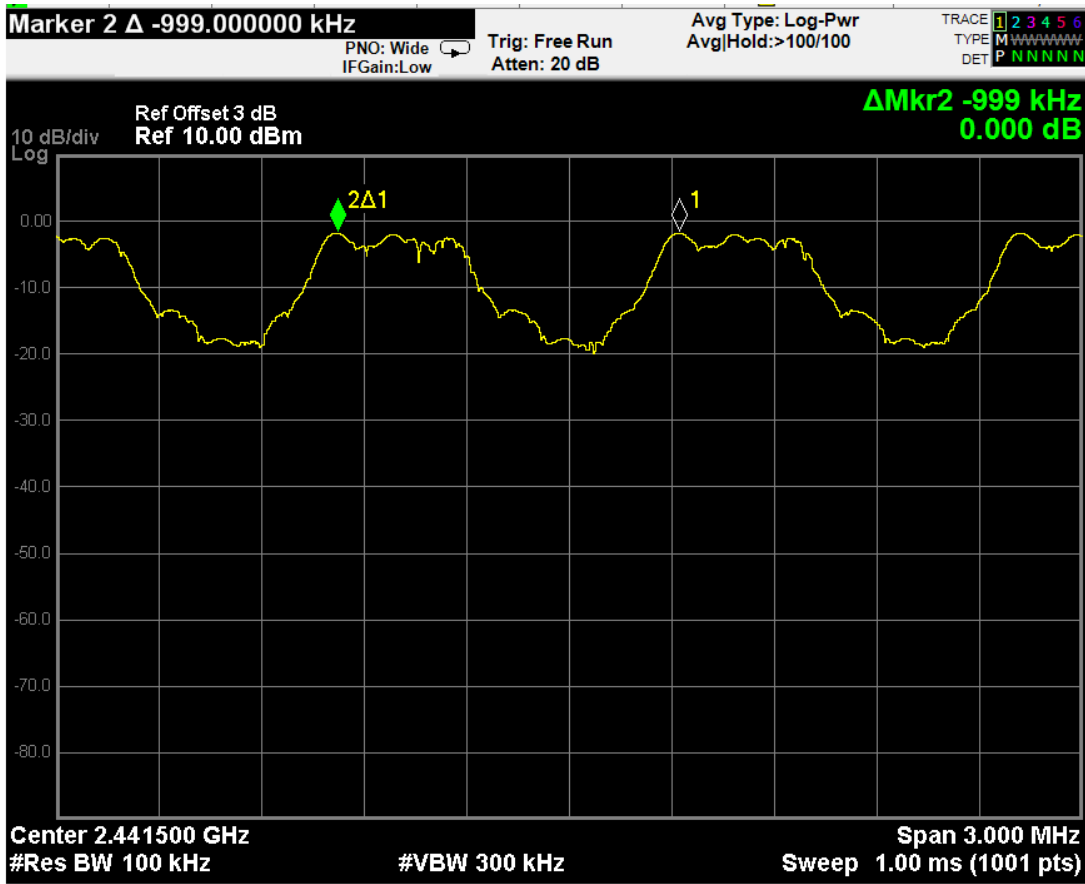
9.6 Test Results

PASSED. All the test results are attached in next pages.

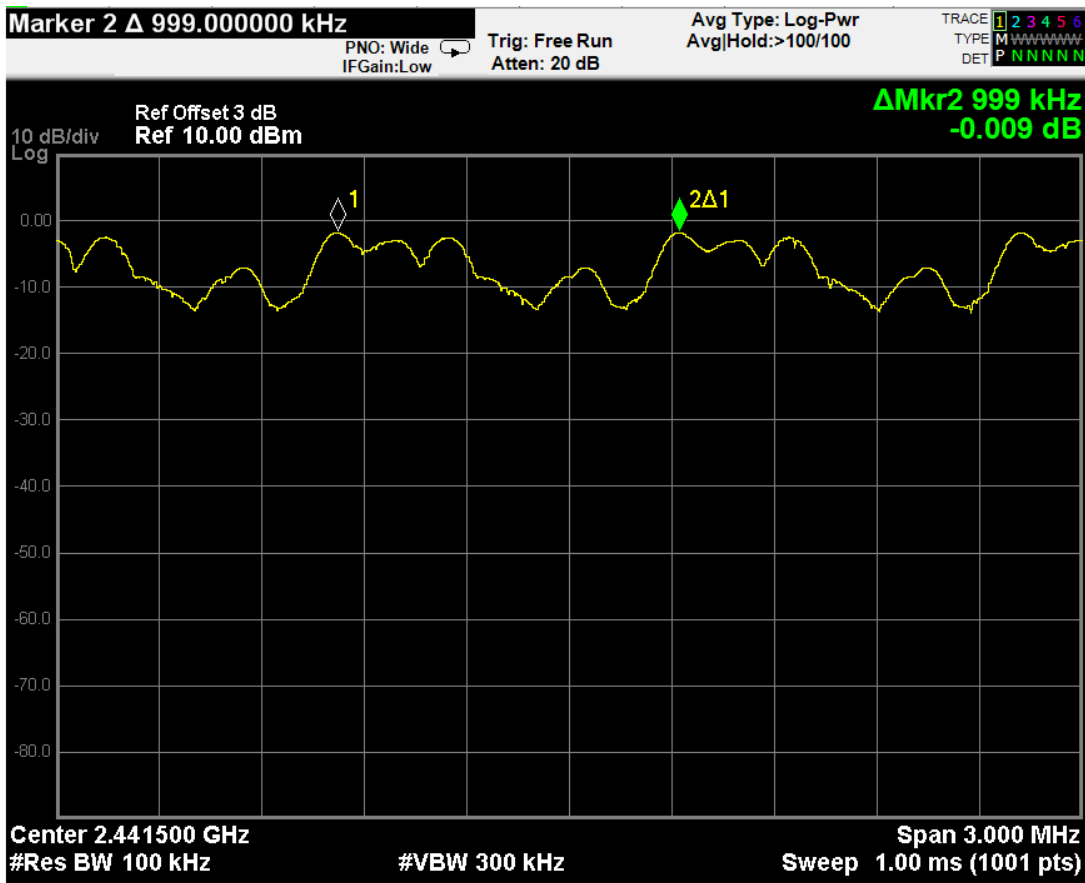
(Test Date: Feb. 12, 2014 Temperature: 21°C Humidity: 42 %)

Mode	Result	Limit (2/3 of the 20dB bandwidth)	Conclusion
Non-EDR	0.999 MHz	> 0.697 MHz	Pass
EDR	0.999 MHz	> 0.789 MHz	Pass

Non-EDR



EDR



10 DEWLL TIME MEASUREMENT

10.1 Test Equipment

The following test equipment was used during the power spectral density measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Test Receiver	R&S	ESCI	101303	Sep 11, 2013	Sep 11, 2014

10.2 Block Diagram of Test Setup

The same as section.4.2.

10.3 Specification Limits (§15.247(a)(1)(iii))

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

10.4 Operating Condition of EUT

Enable the EUT hopping function.

10.5 Test Procedure

The transmitter output was connected to the spectrum analyzer. The spectrum analyzer was set as RBW = 1MHz, VBW = 1MHz, span = zero span, centered on a hopping channel. Use the marker-delta function to calculate the dwell time.

The test procedure is defined in DA 00-705.

10.6 Test Results

PASSED. All the test results are attached in next pages.

(Test Date: Feb. 10, 2014 Temperature: 21℃ Humidity: 42 %)

No.	Channel	Frequency	Data Page
1.	00	2402 MHz	P60-66
2.	39	2441 MHz	P67-73
3.	78	2480 MHz	P74-80

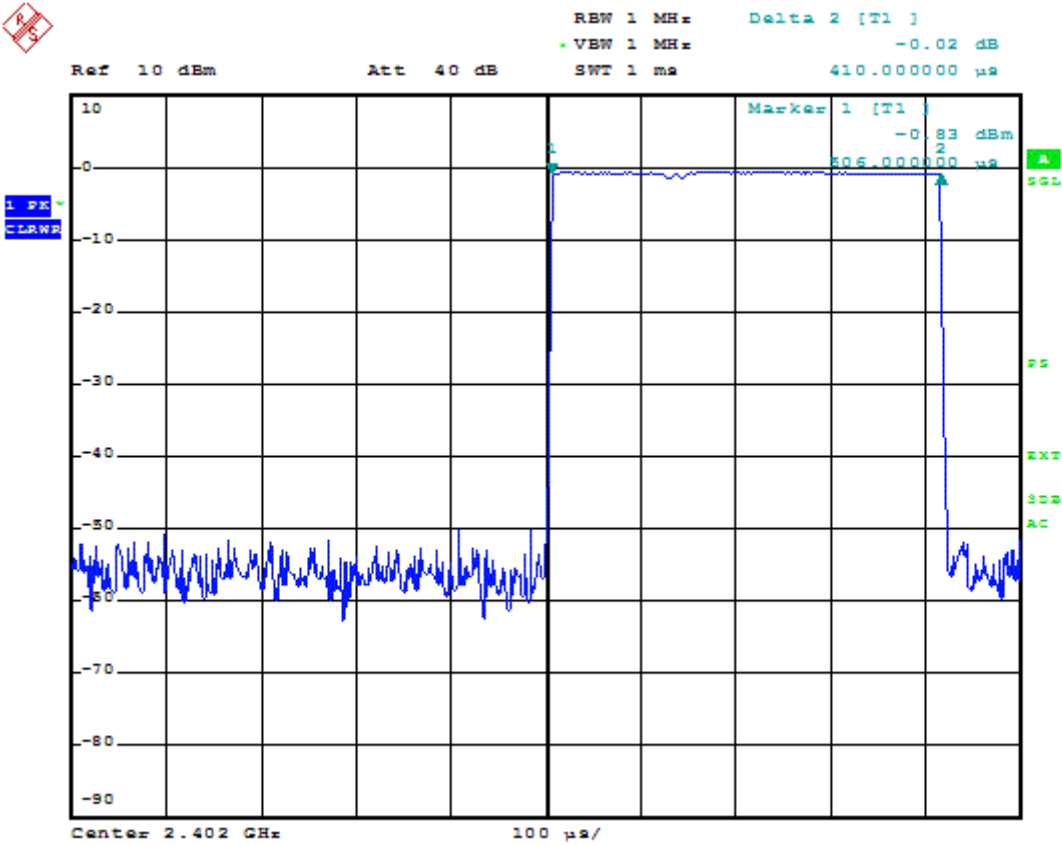
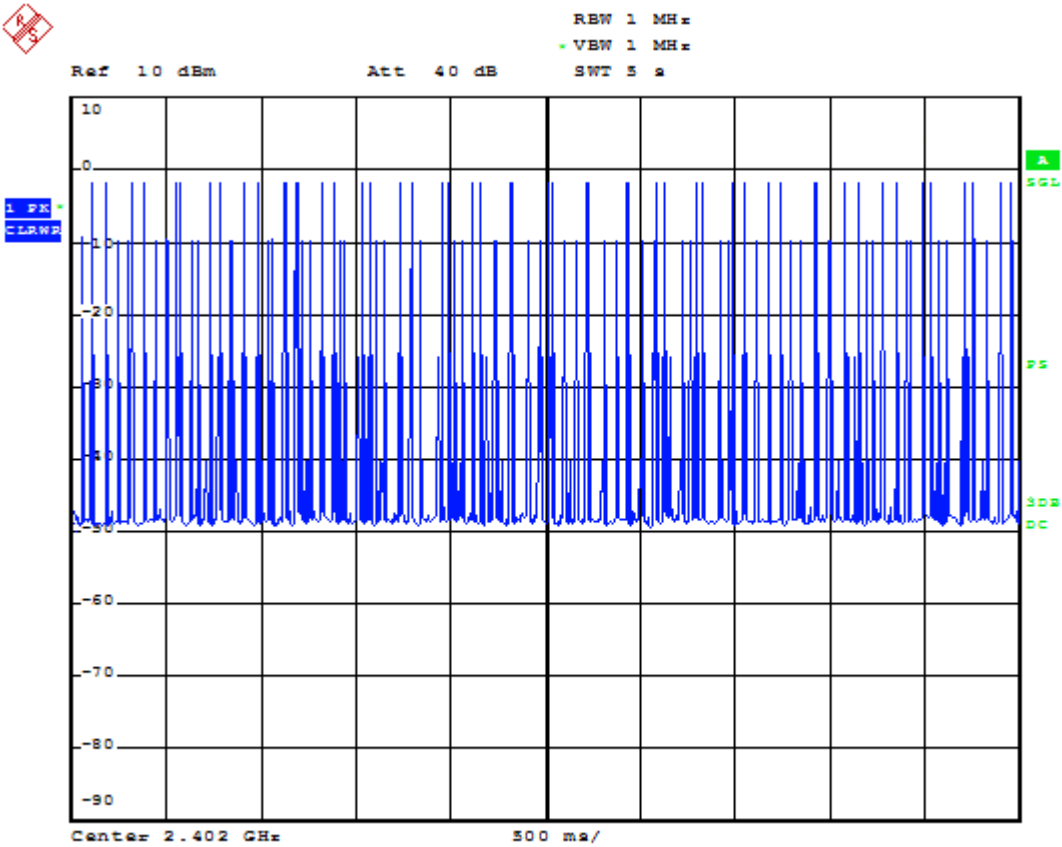
Ch 00 2402MHz NON-EDR

Mode	Number of transmission in a 31.6 (79 hopping*0.4) second period	Length of transmission time (msec)	Result (msec)	Limit (msec)	Conclusion
DH1	48 times/5 sec * 31.6=303 times	0.410	303*0.410 = 124.2	< 400	Pass
DH3	24 times/5 sec * 31.6=152 times	0.368	152*0.368 = 55.9	< 400	Pass
DH5	17 times/5 sec * 31.6=107 times	0.366	107*0.366 = 39.2	< 400	Pass

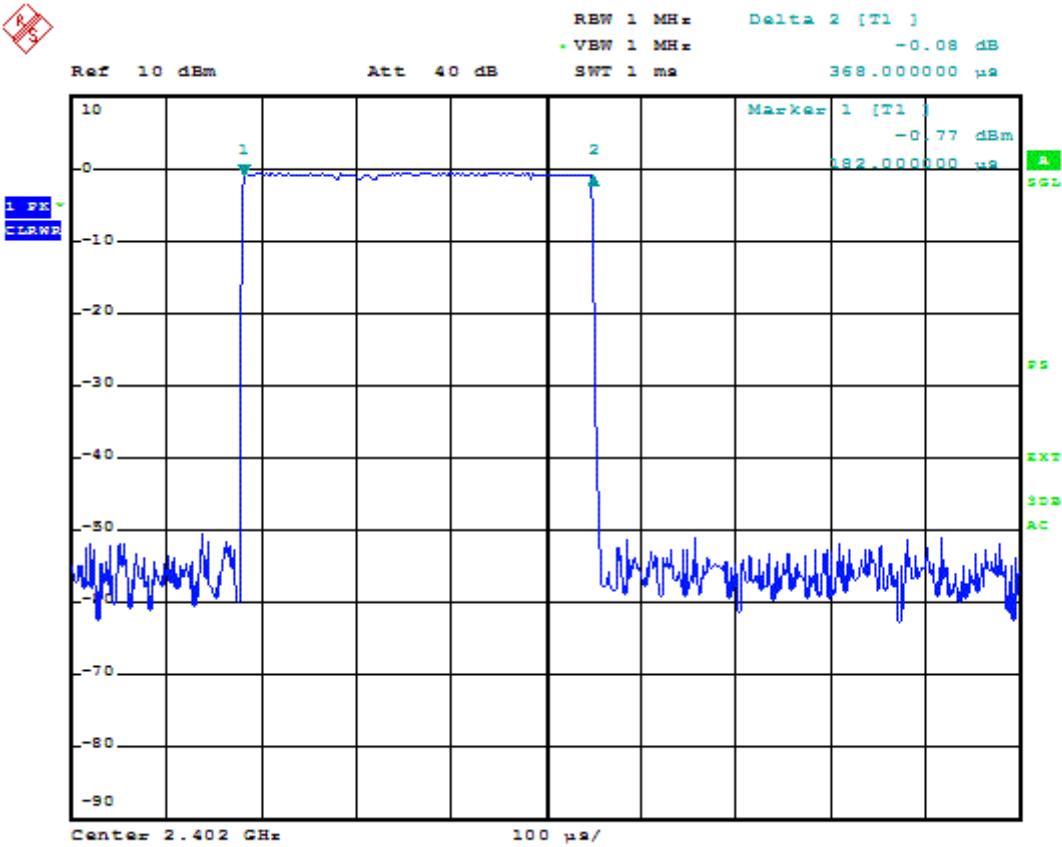
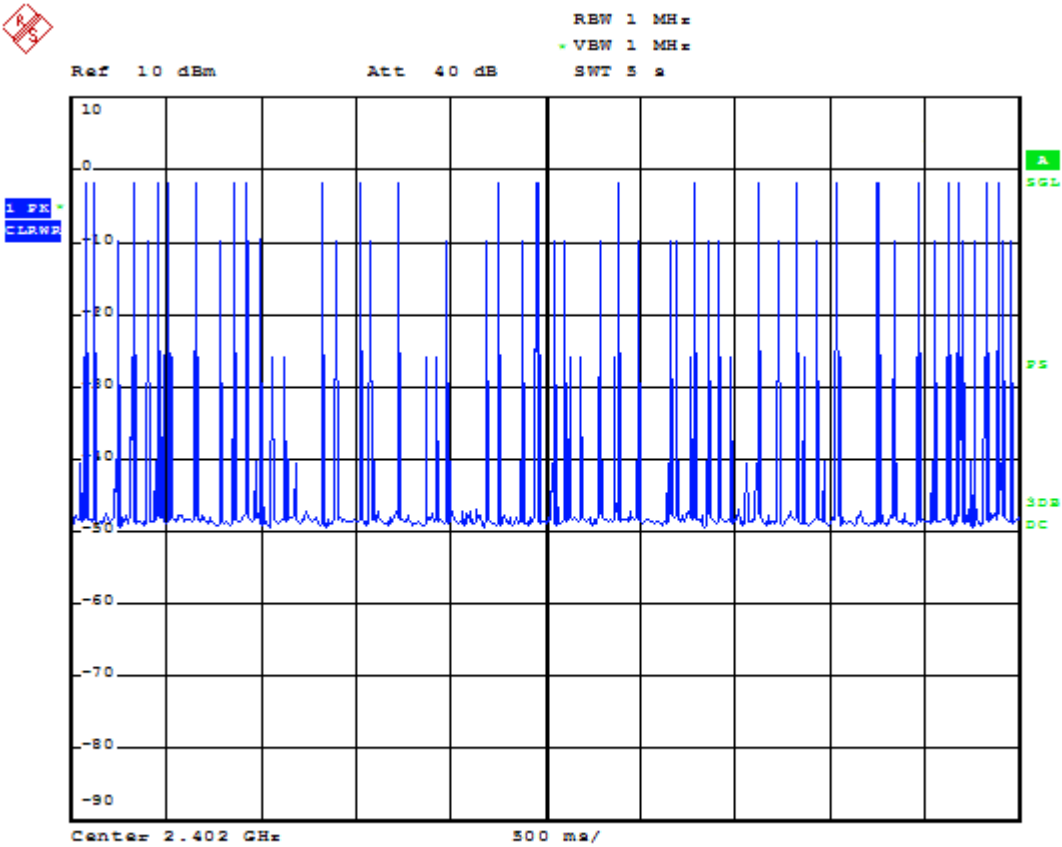
Ch 00 2402MHz EDR

Mode	Number of transmission in a 31.6 (79 hopping*0.4) second period	Length of transmission time (msec)	Result (msec)	Limit (msec)	Conclusion
DH1	48 times/5 sec * 31.6=303 times	0.408	303*0.408 = 123.6	< 400	Pass
DH3	30 times/5 sec * 31.6=190 times	0.165	190*0.165 = 31.4	< 400	Pass
DH5	16 times/5 sec * 31.6=101 times	0.167	101*0.167 = 16.9	< 400	Pass

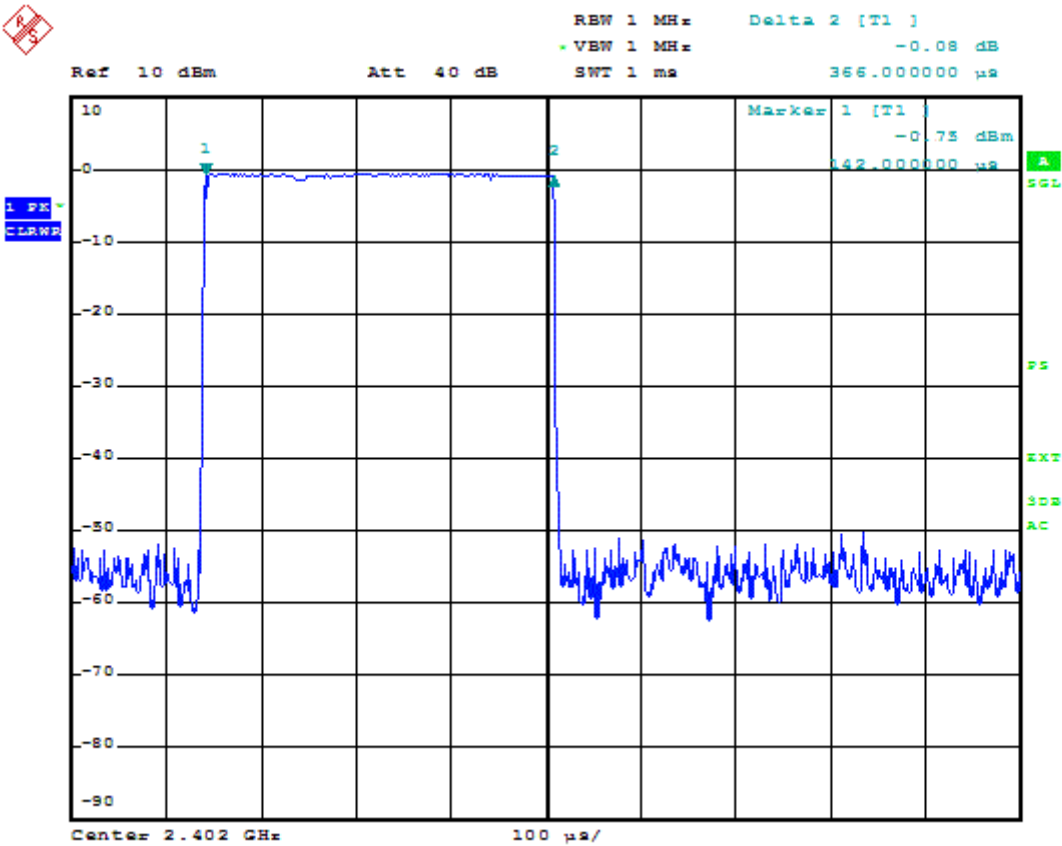
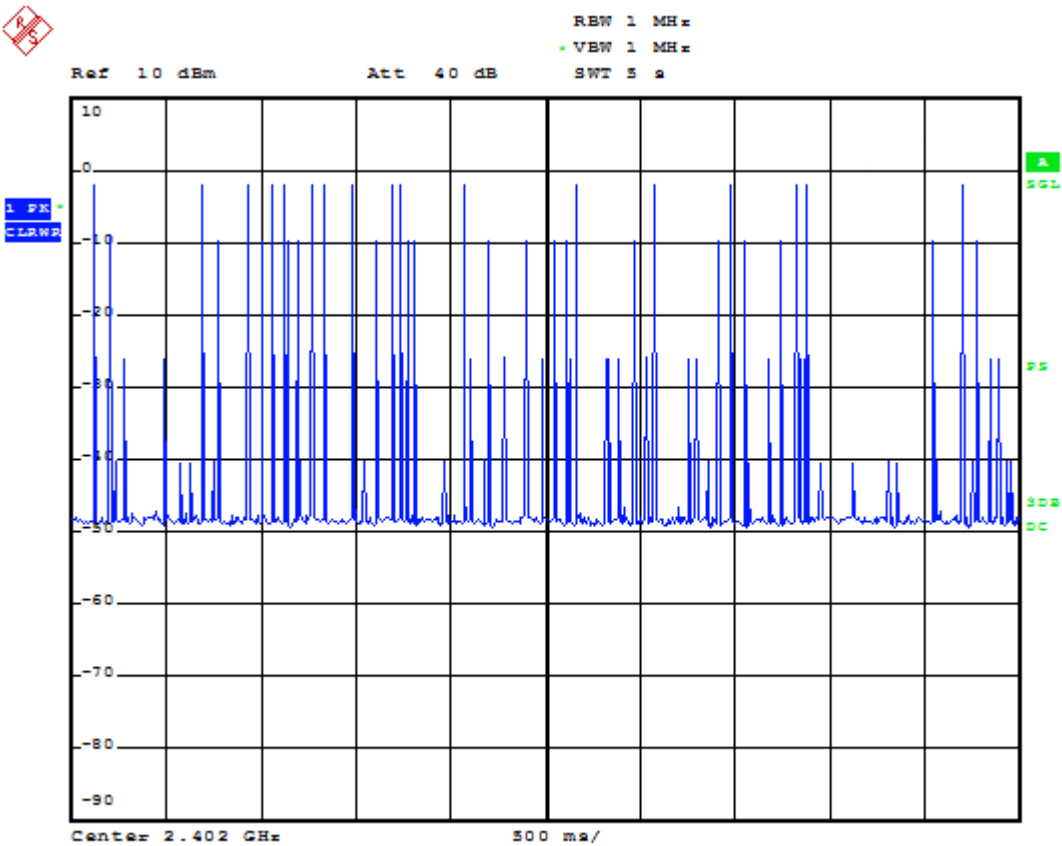
For Ch 00 2402MHz NON-EDR DH1



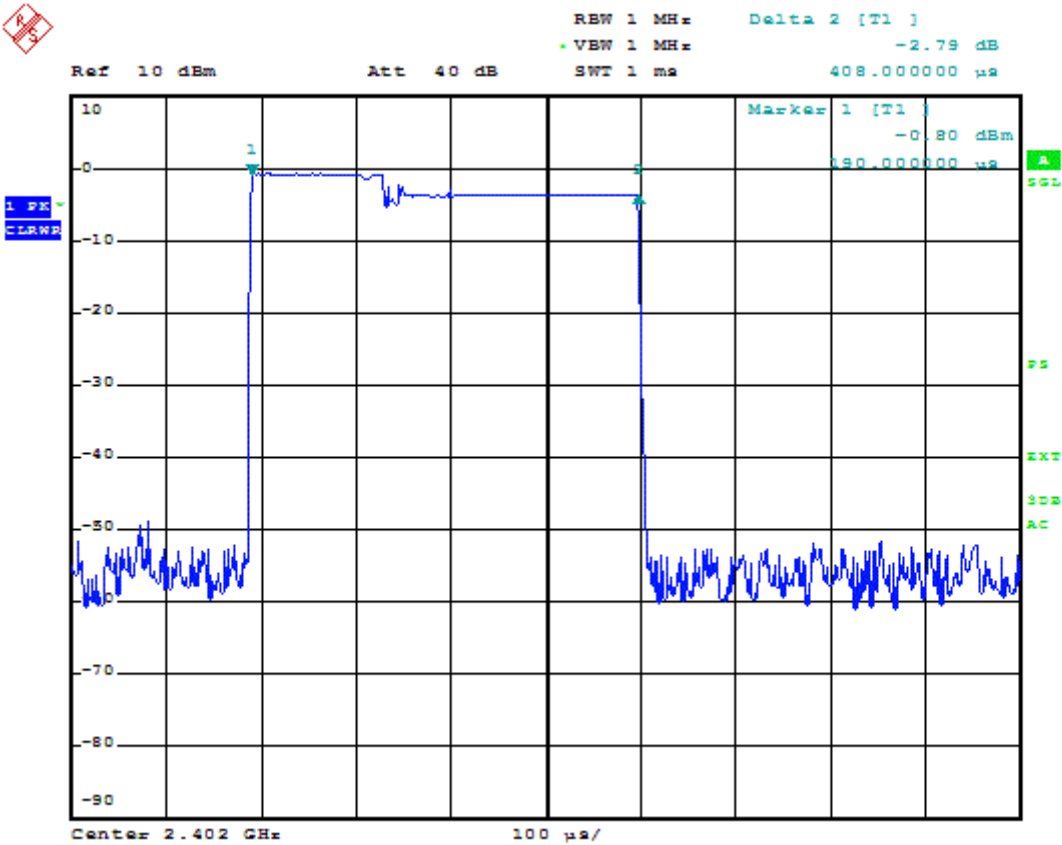
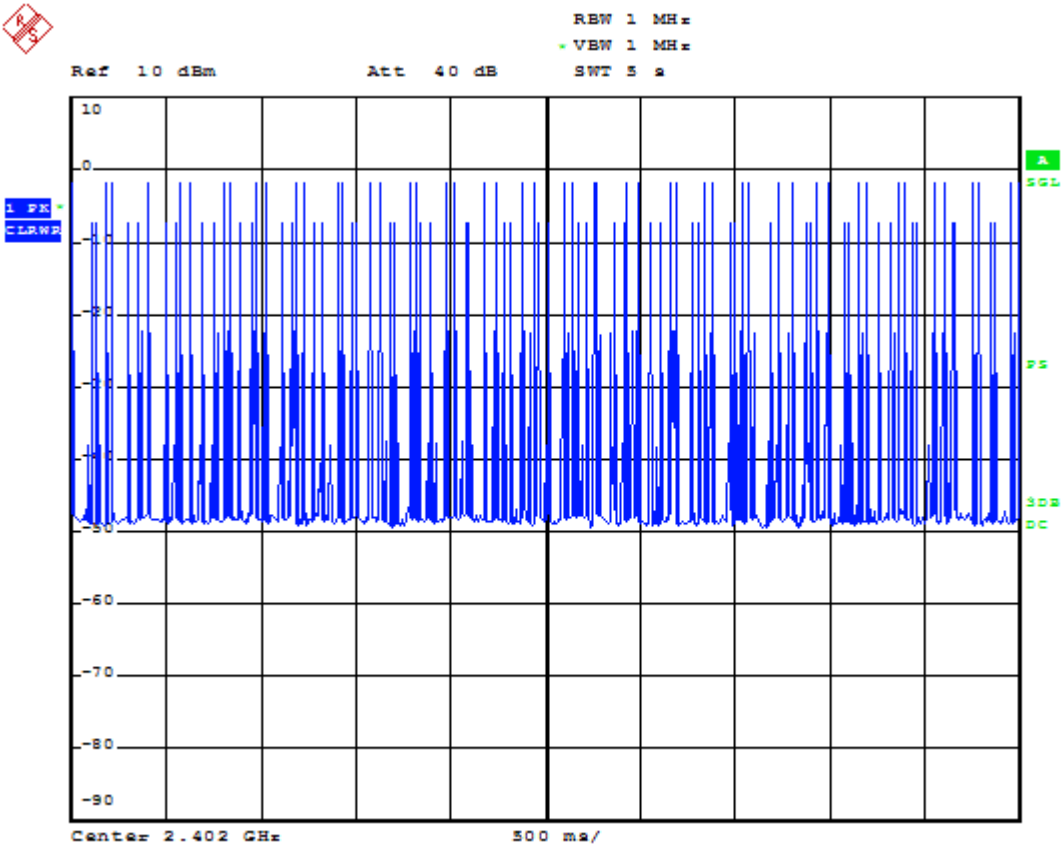
For Ch 00 2402MHz NON-EDR DH3



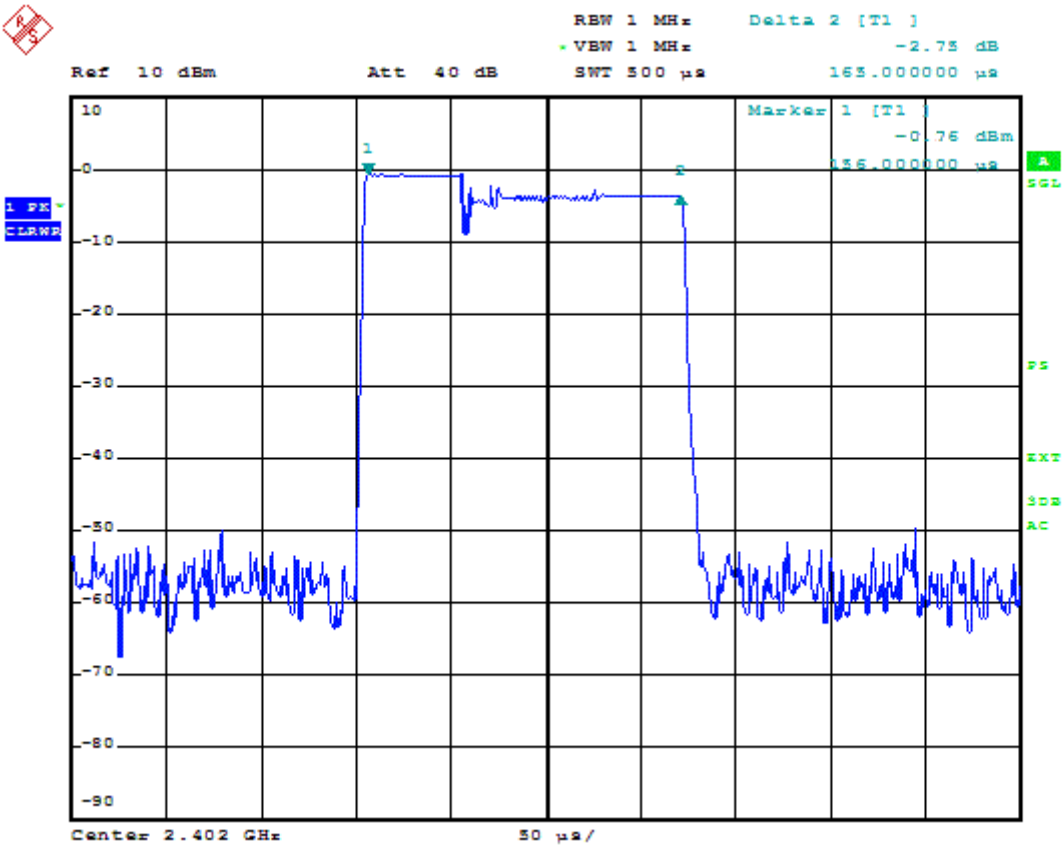
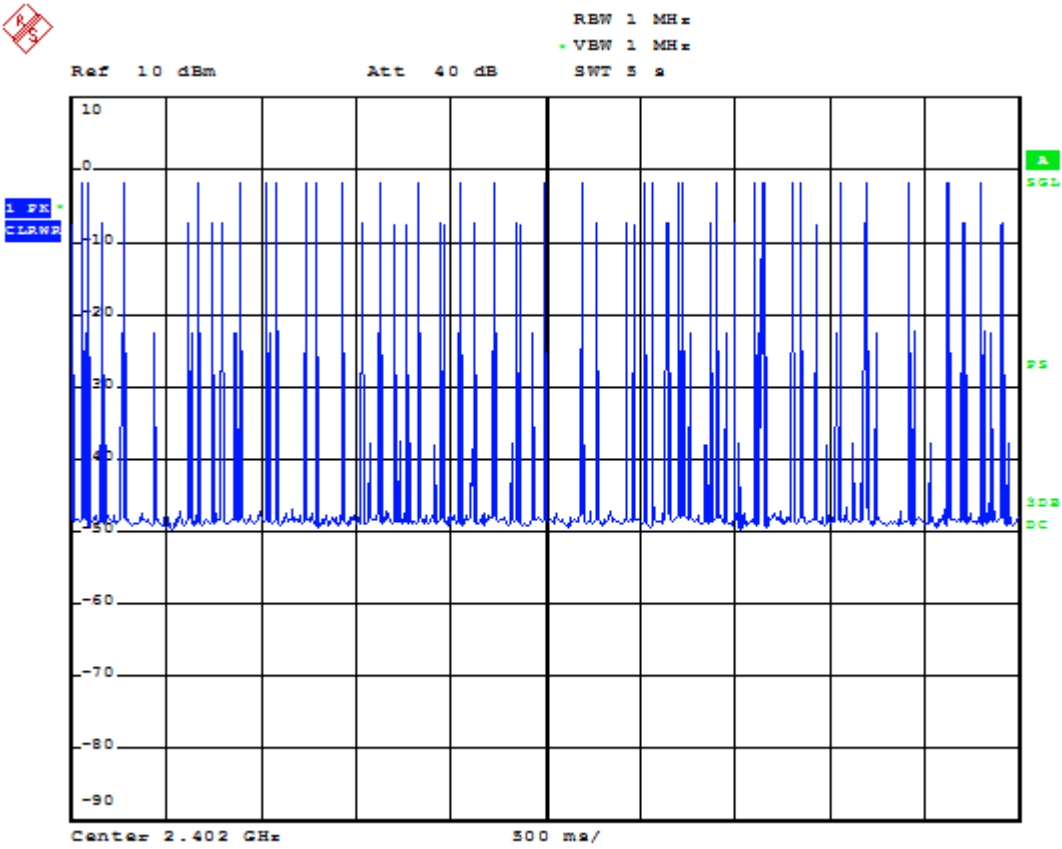
For Ch 00 2402MHz NON-EDR DH5



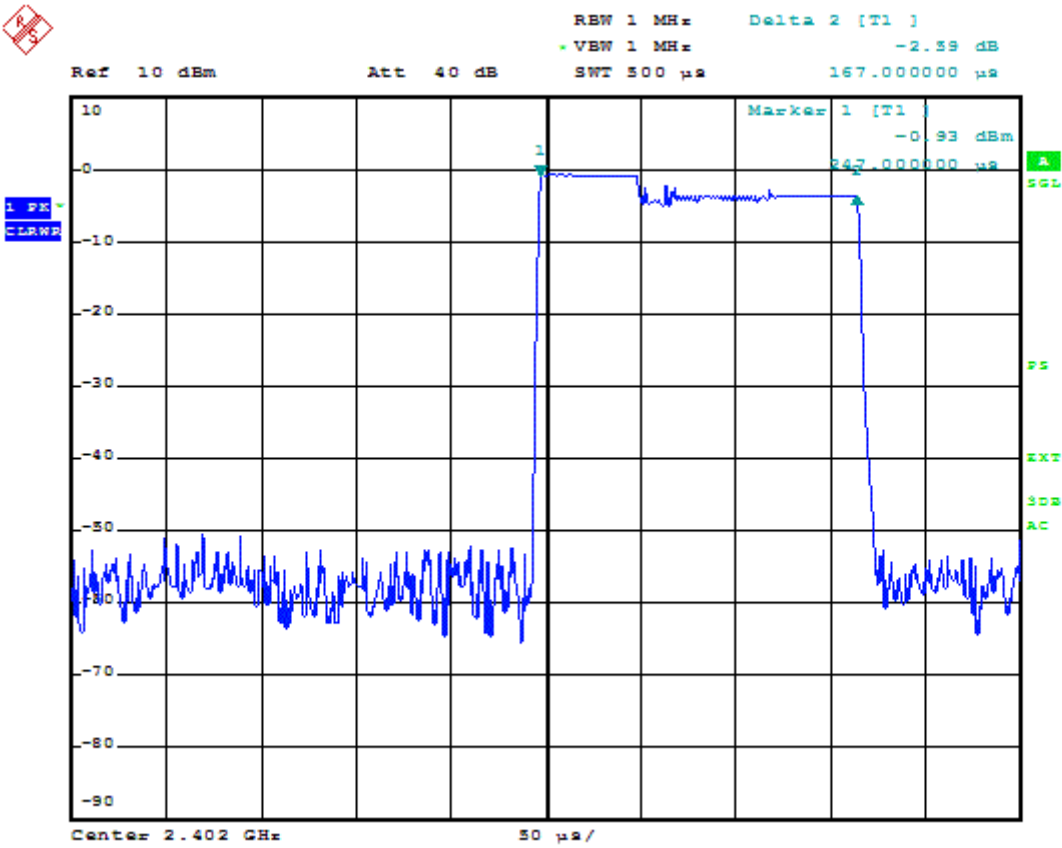
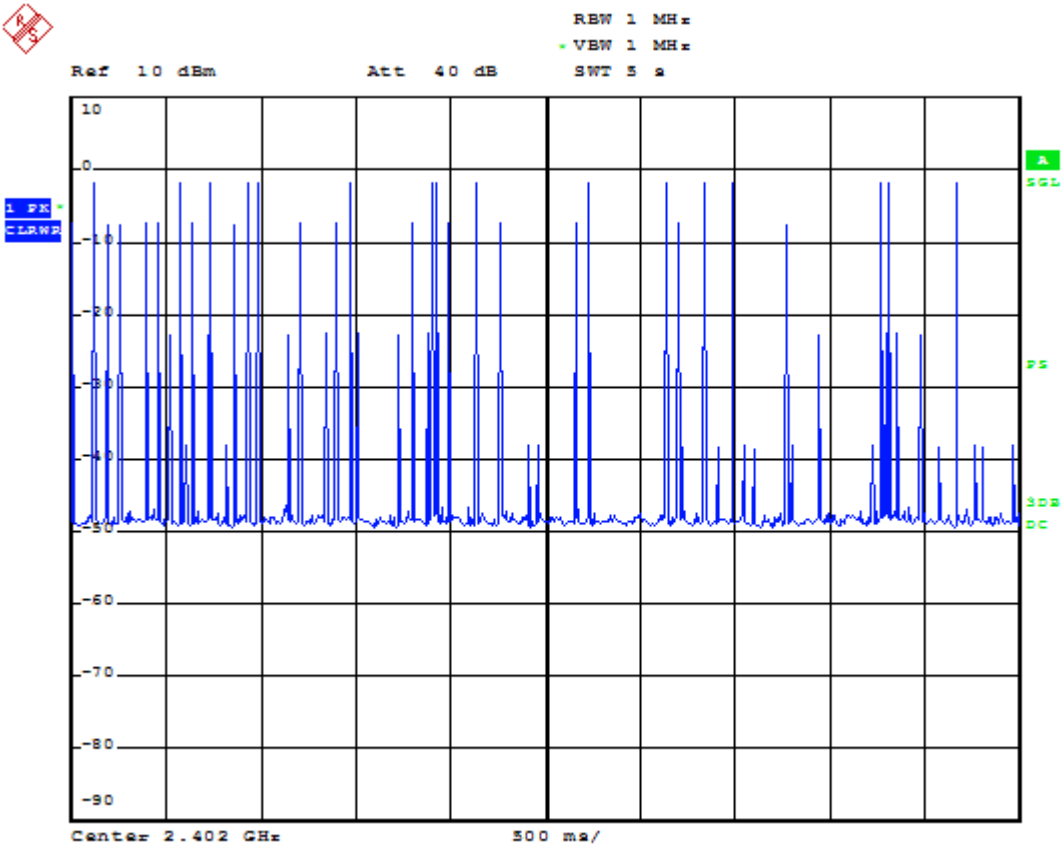
For Ch 00 2402MHz EDR DH1



For Ch 00 2402MHz EDR DH3



For Ch 00 2402MHz EDR DH5



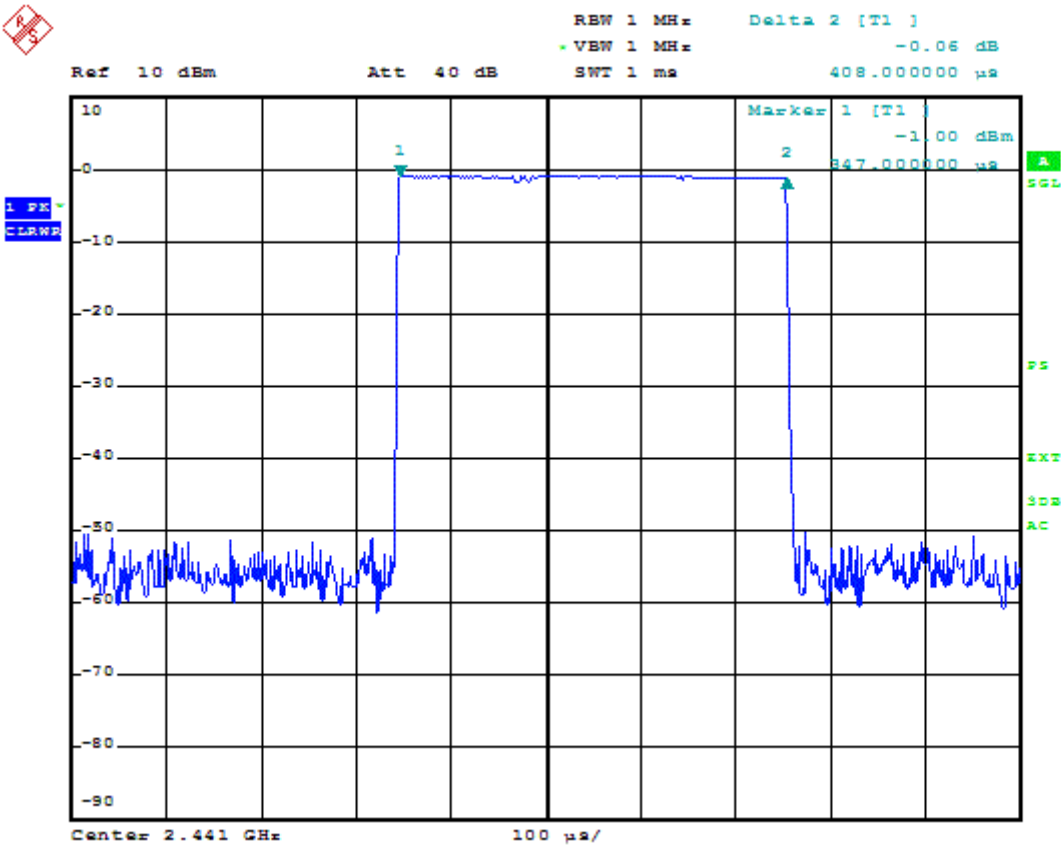
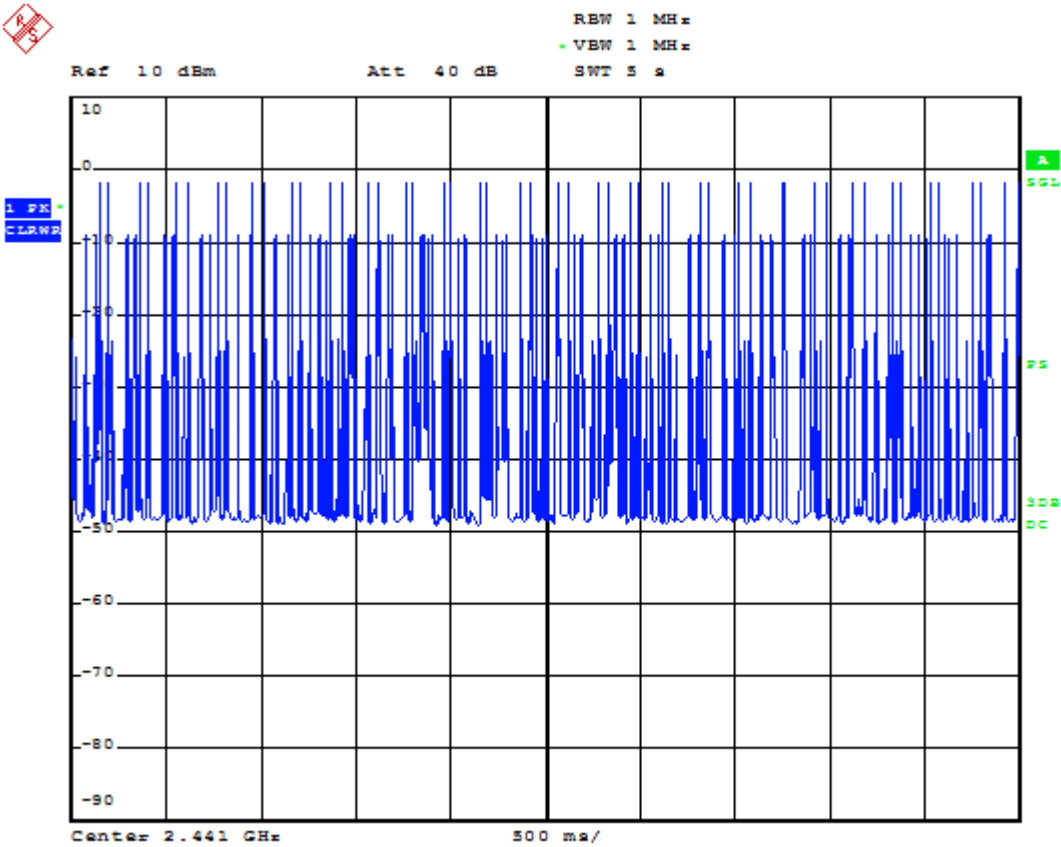
Ch 39 2441MHz NON-EDR

Mode	Number of transmission in a 31.6 (79 hopping*0.4) second period	Length of transmission time (msec)	Result (msec)	Limit (msec)	Conclusion
DH1	49 times/5 sec * 31.6=310 times	0.408	$310 \times 0.408 = 126.5$	< 400	Pass
DH3	24 times/5 sec * 31.6=152 times	0.368	$152 \times 0.368 = 55.9$	< 400	Pass
DH5	17 times/5 sec * 31.6=107 times	0.368	$107 \times 0.368 = 39.4$	< 400	Pass

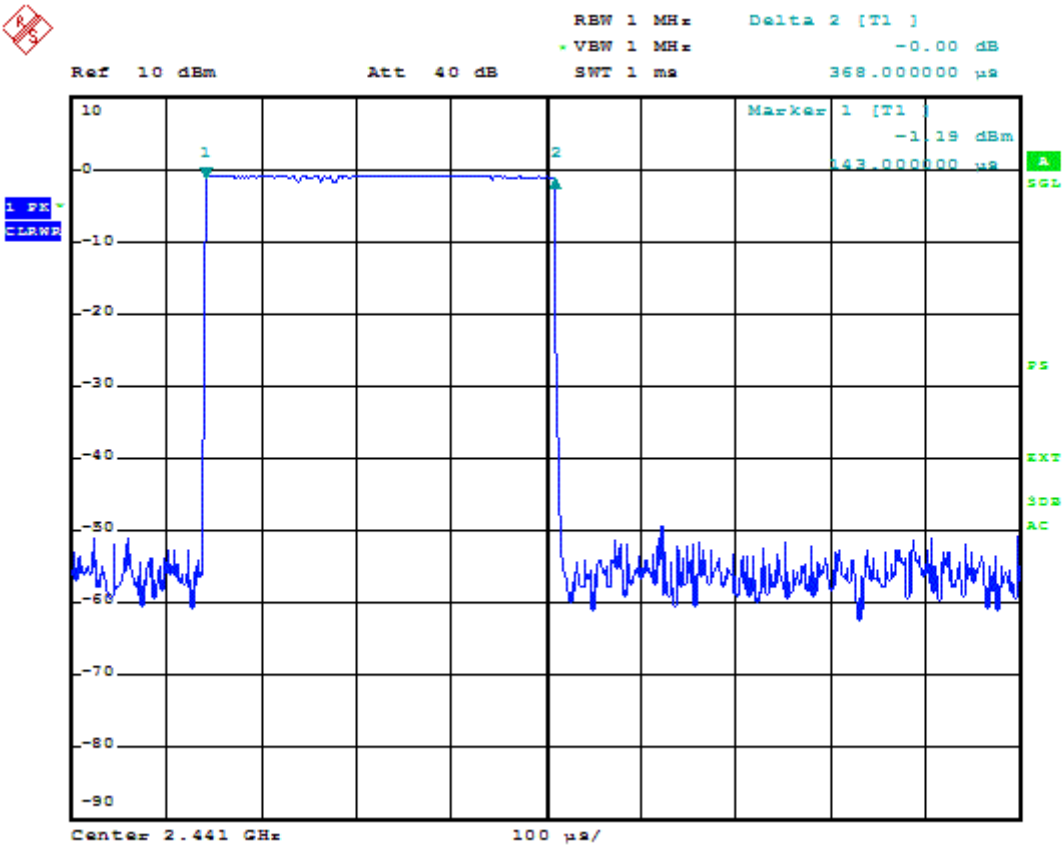
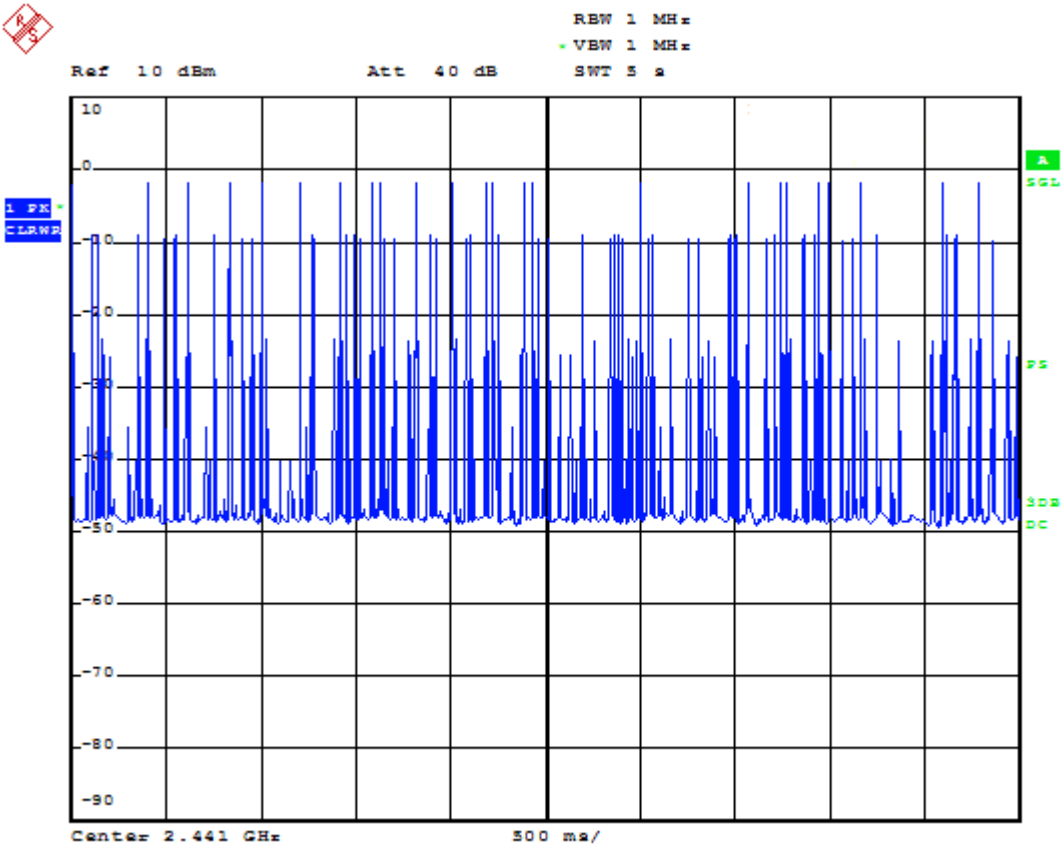
Ch 39 2441MHz EDR

Mode	Number of transmission in a 31.6 (79 hopping*0.4) second period	Length of transmission time (msec)	Result (msec)	Limit (msec)	Conclusion
DH1	47 times/5 sec * 31.6=297 times	0.406	$297 \times 0.406 = 120.6$	< 400	Pass
DH3	24 times/5 sec * 31.6=152 times	0.168	$152 \times 0.168 = 25.5$	< 400	Pass
DH5	17 times/5 sec * 31.6=107 times	0.167	$107 \times 0.167 = 17.9$	< 400	Pass

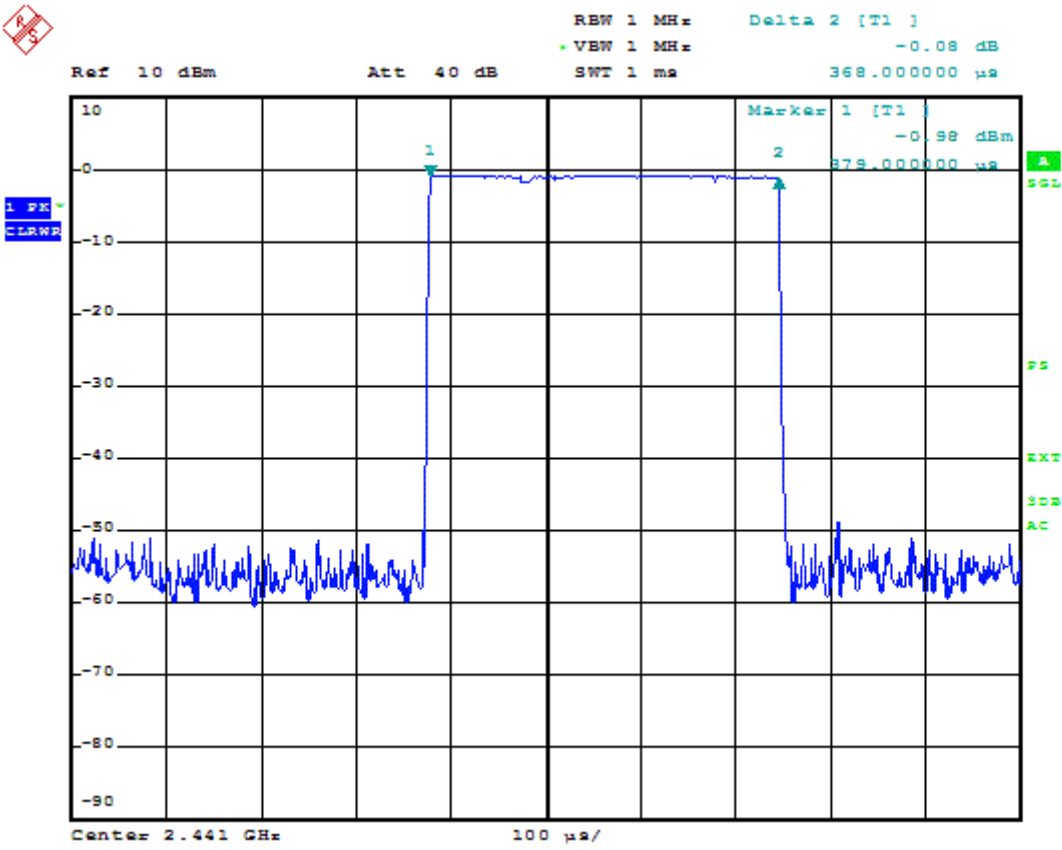
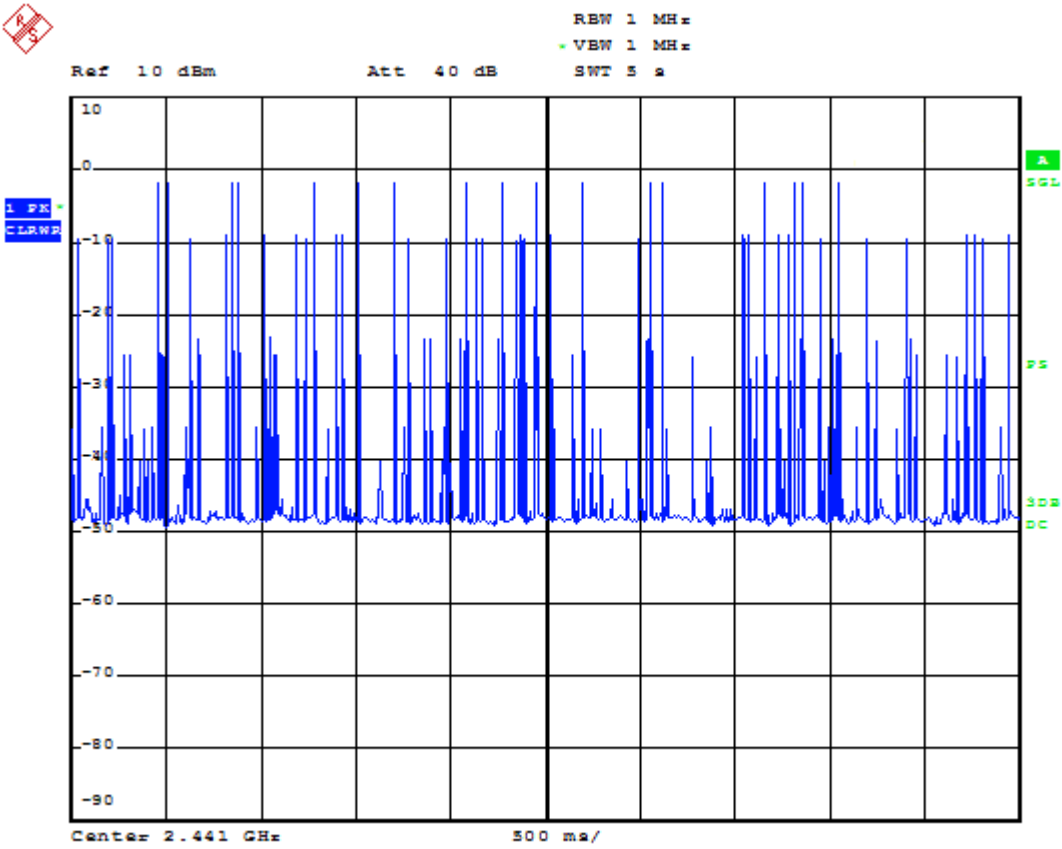
For Ch 39 2441MHz NON-EDR DH1



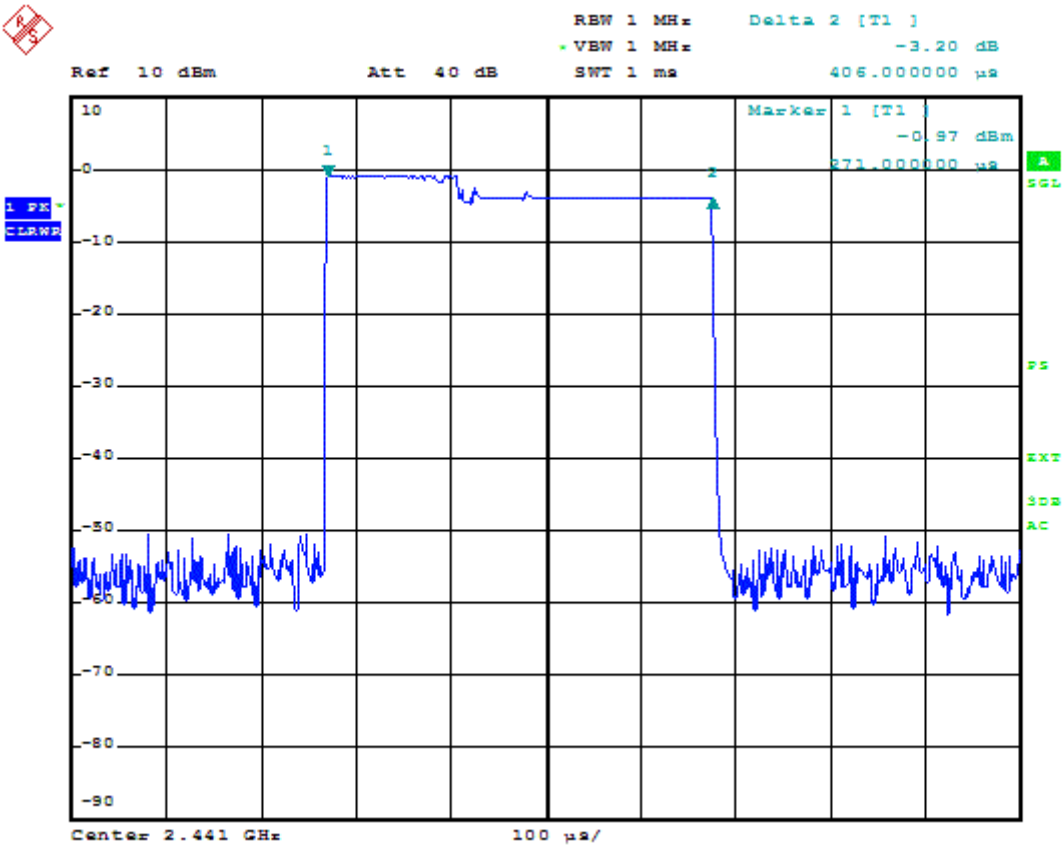
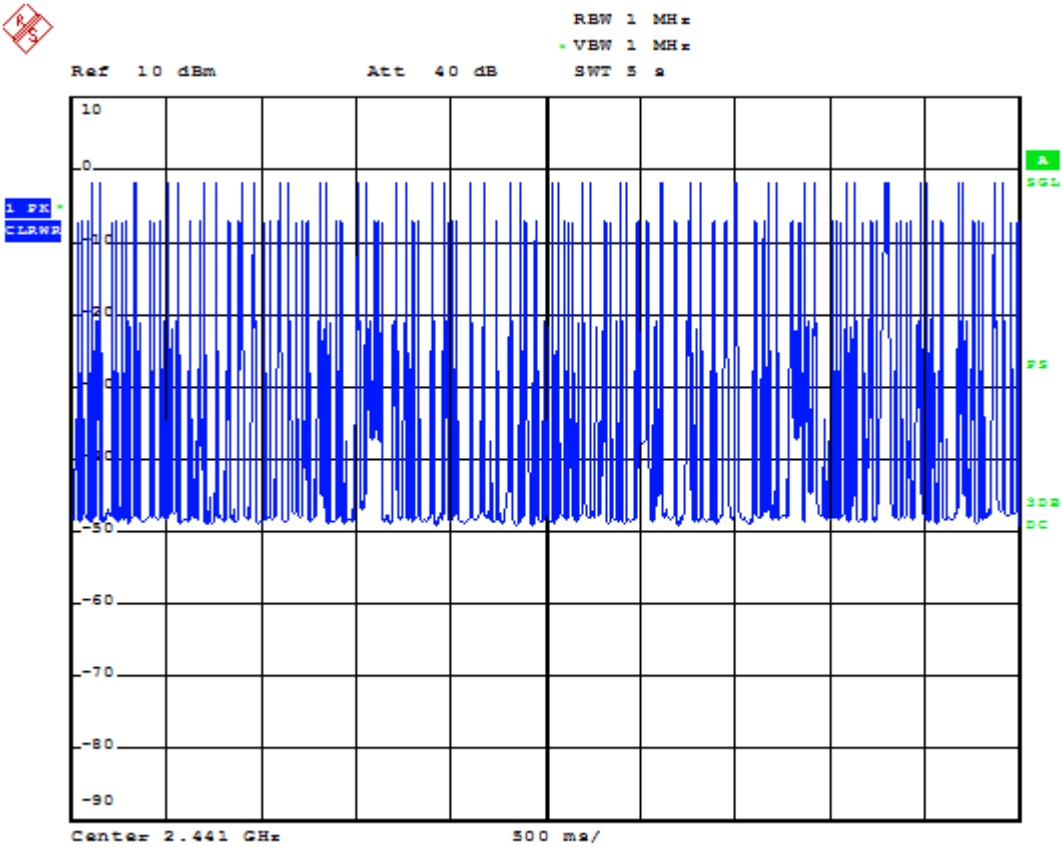
For Ch 39 2441MHz NON-EDR DH3



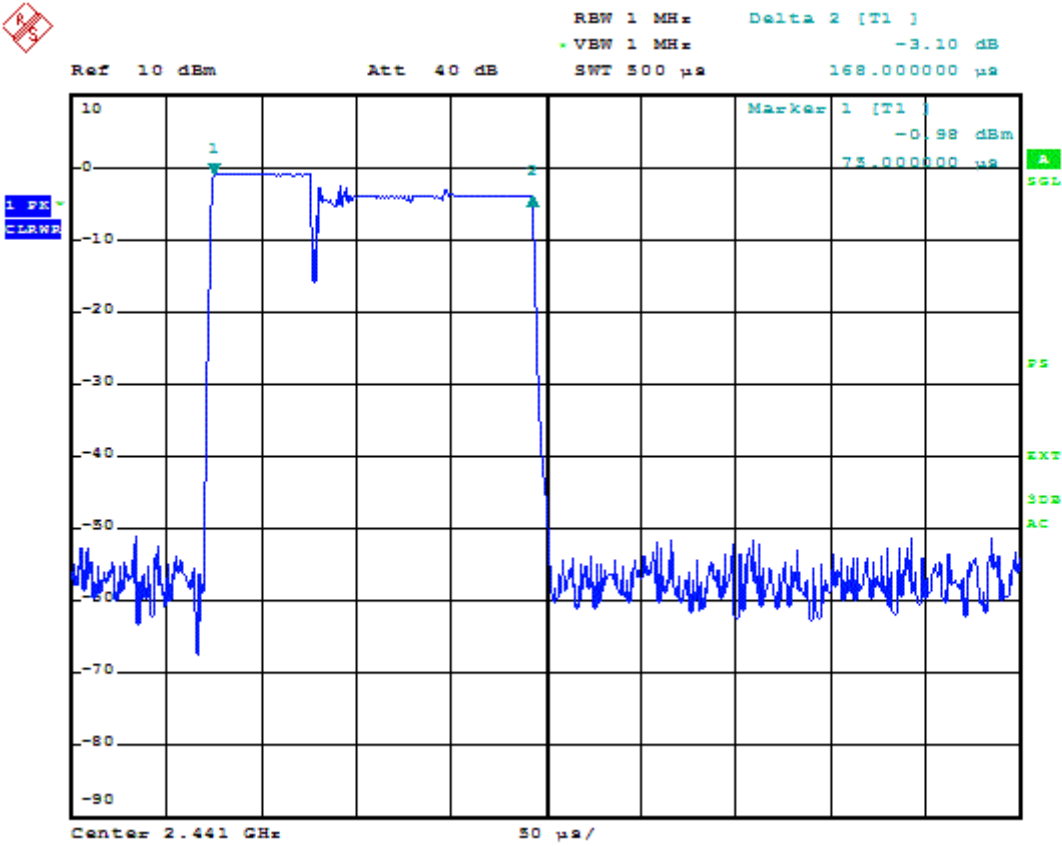
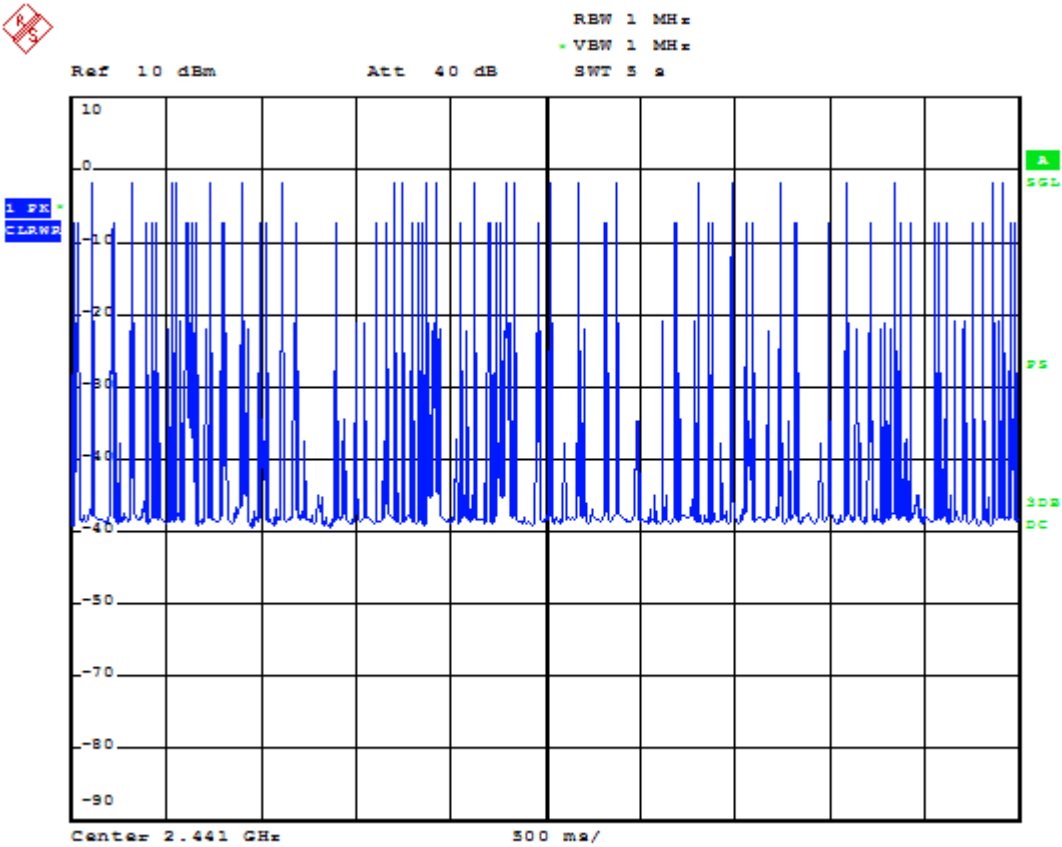
For Ch 39 2441MHz NON-EDR DH5



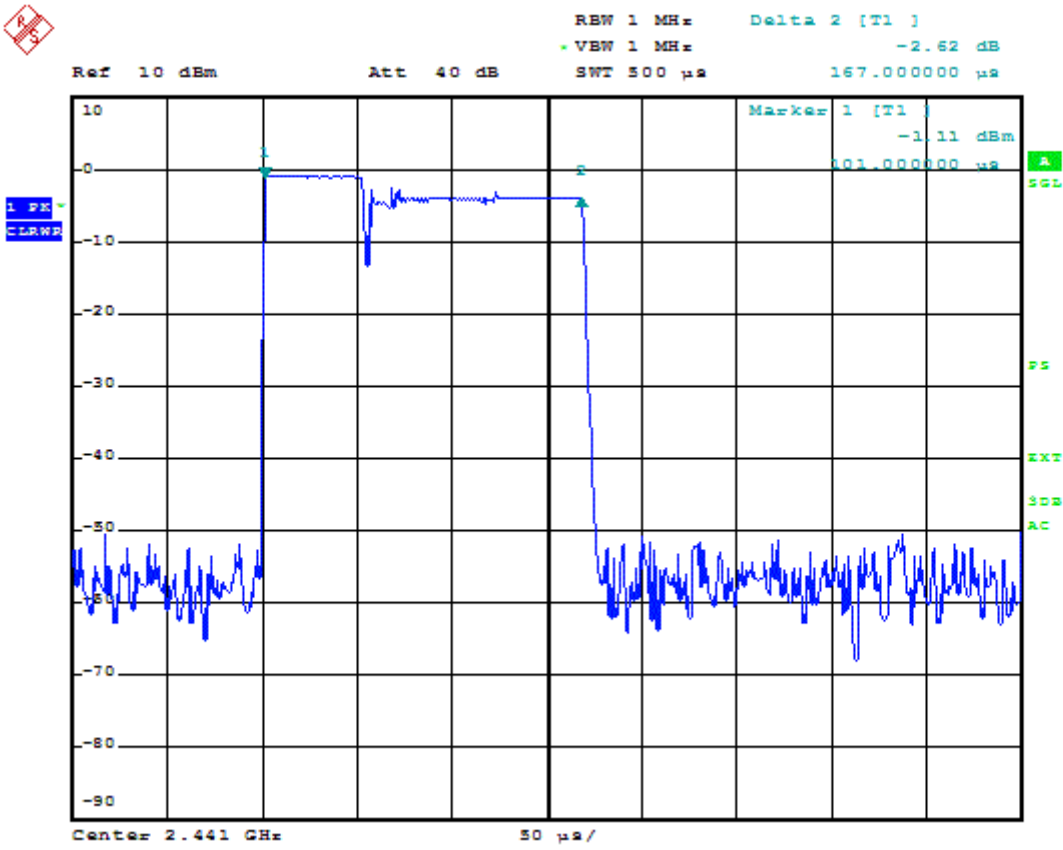
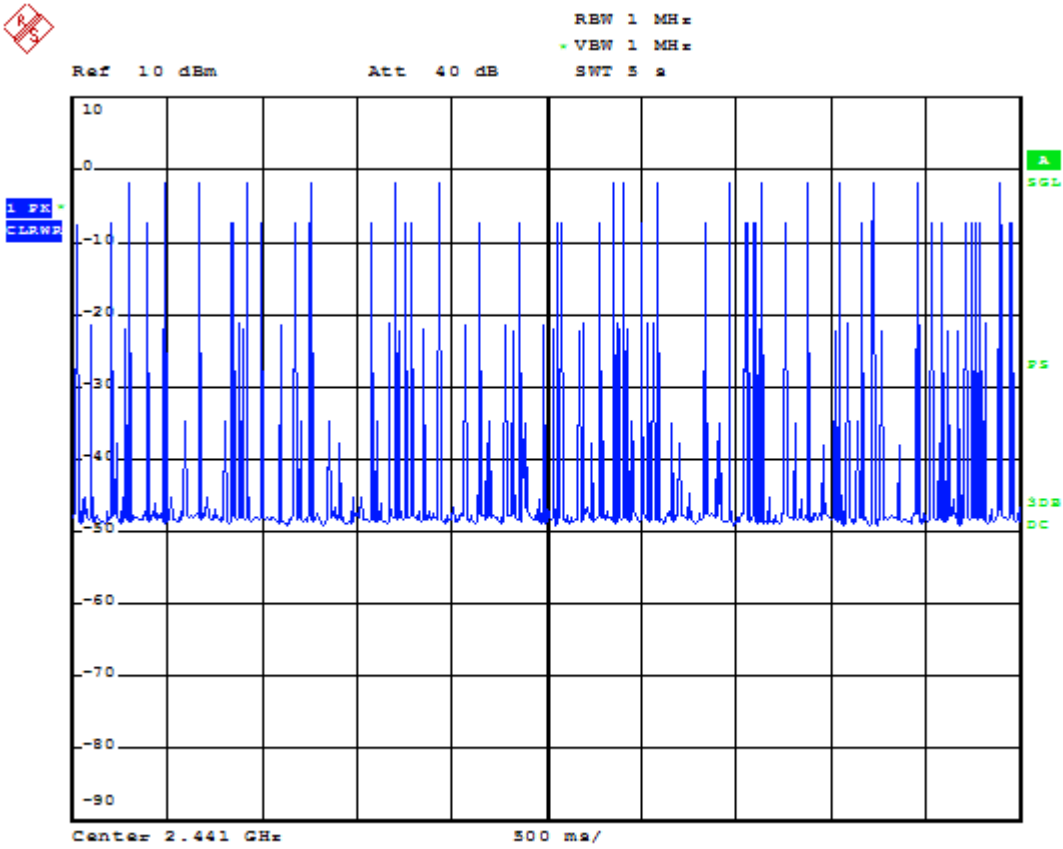
For Ch 39 2441MHz EDR DH1



For Ch 39 2441MHz EDR DH3



For Ch 39 2441MHz EDR DH5



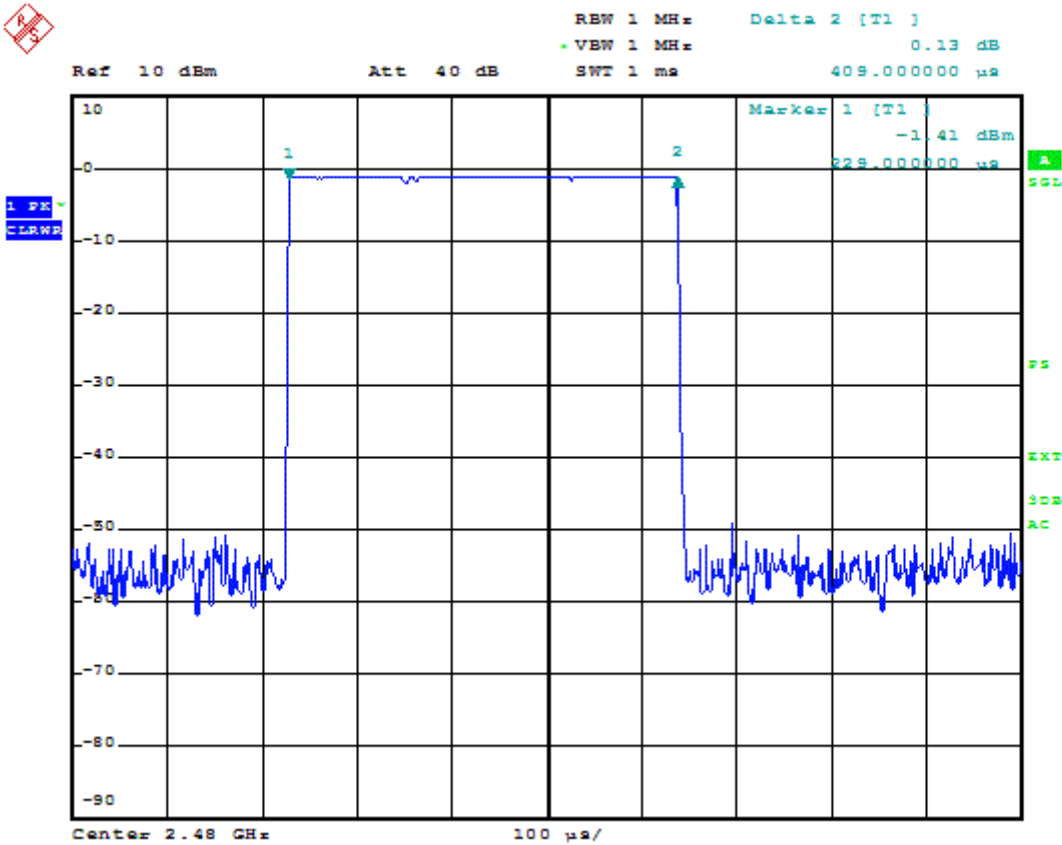
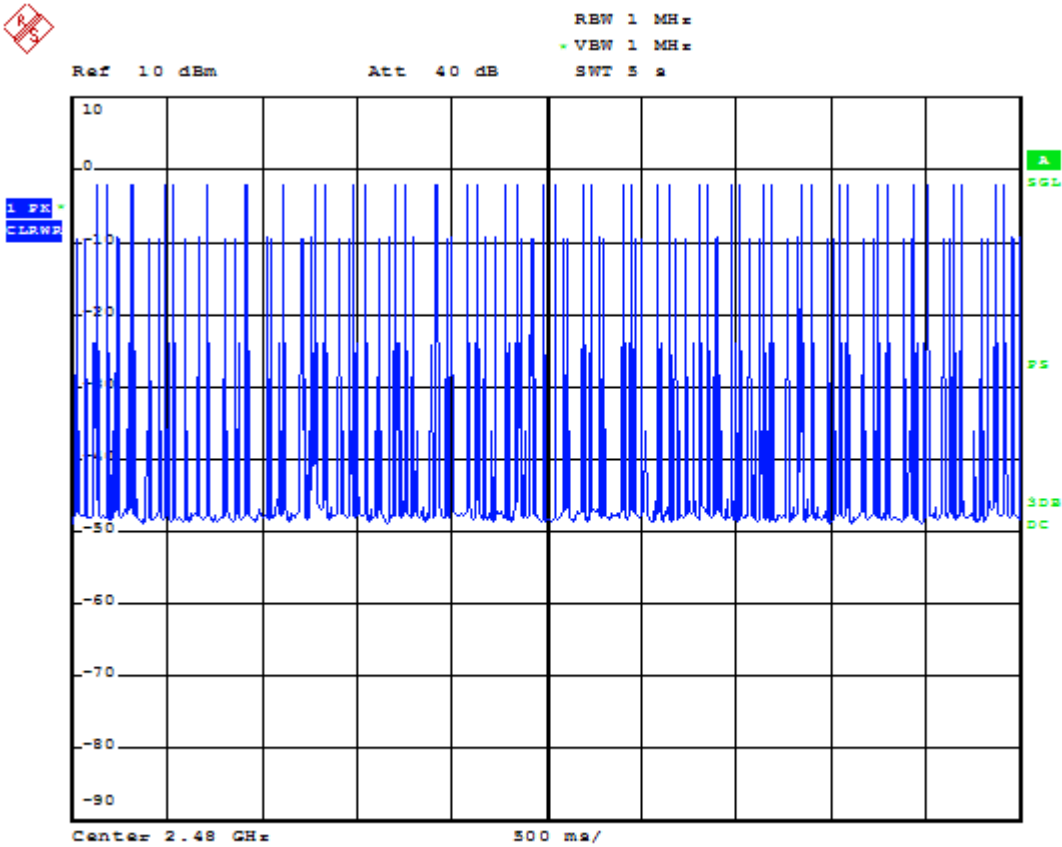
Ch 78 2480MHz NON-EDR

Mode	Number of transmission in a 31.6 (79 hopping*0.4) second period	Length of transmission time (msec)	Result (msec)	Limit (msec)	Conclusion
DH1	48 times/5 sec * 31.6=303 times	0.409	$303*0.409 = 123.9$	< 400	Pass
DH3	24 times/5 sec * 31.6=152 times	0.365	$152*0.365 = 55.5$	< 400	Pass
DH5	19 times/5 sec * 31.6=120 times	0.367	$120*0.367 = 44.0$	< 400	Pass

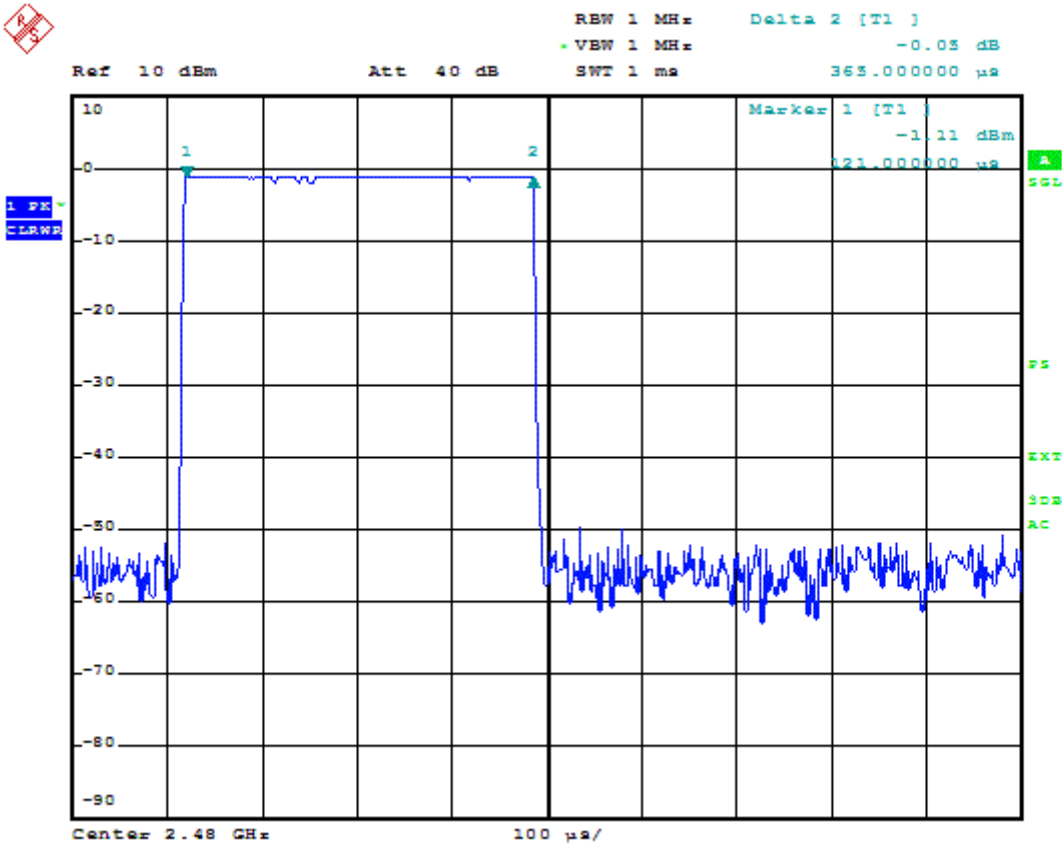
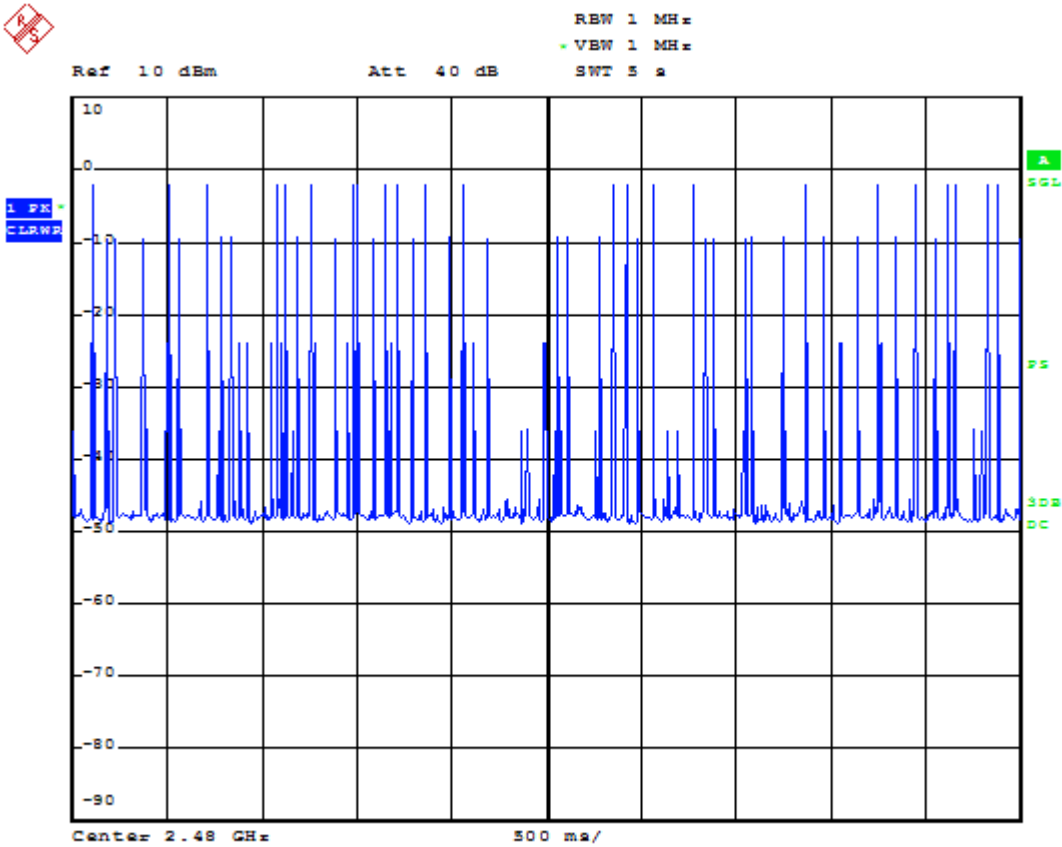
Ch 78 2480MHz EDR

Mode	Number of transmission in a 31.6 (79 hopping*0.4) second period	Length of transmission time (msec)	Result (msec)	Limit (msec)	Conclusion
DH1	48 times/5 sec * 31.6=303 times	0.405	$303*0.405 = 122.7$	< 400	Pass
DH3	25 times/5 sec * 31.6=158 times	0.167	$158*0.167 = 26.4$	< 400	Pass
DH5	17 times/5 sec * 31.6=107 times	0.167	$107*0.167 = 17.9$	< 400	Pass

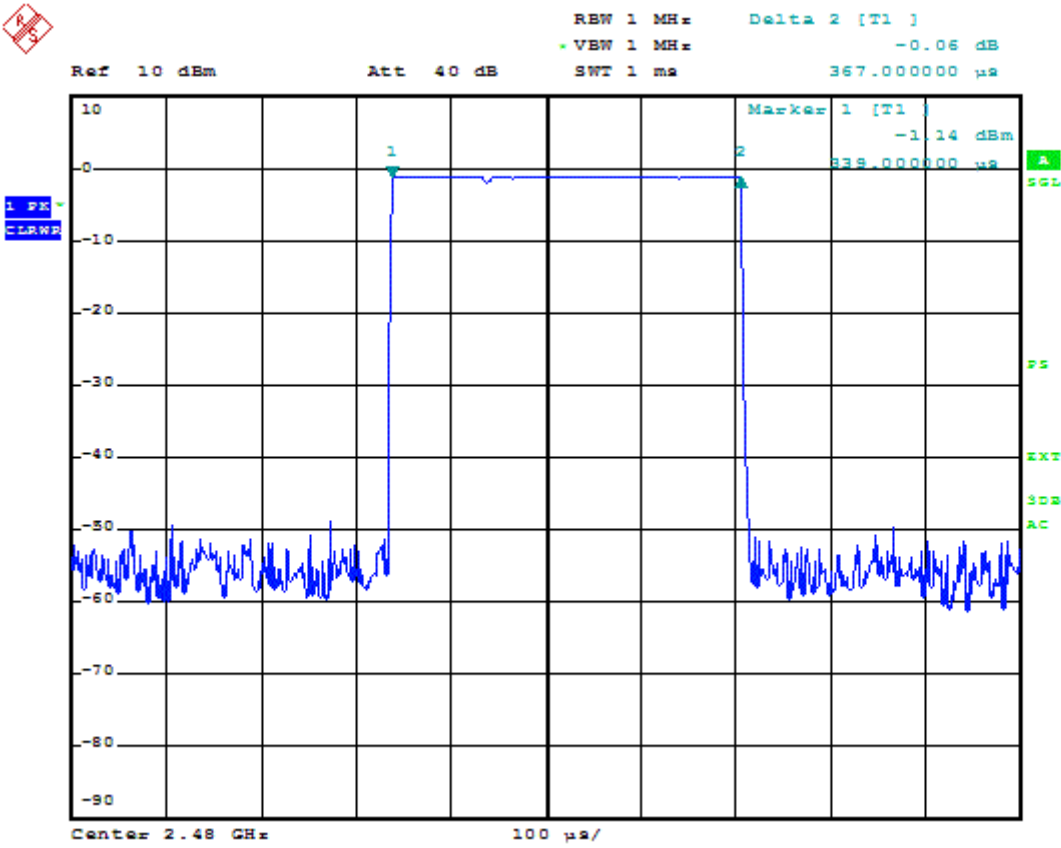
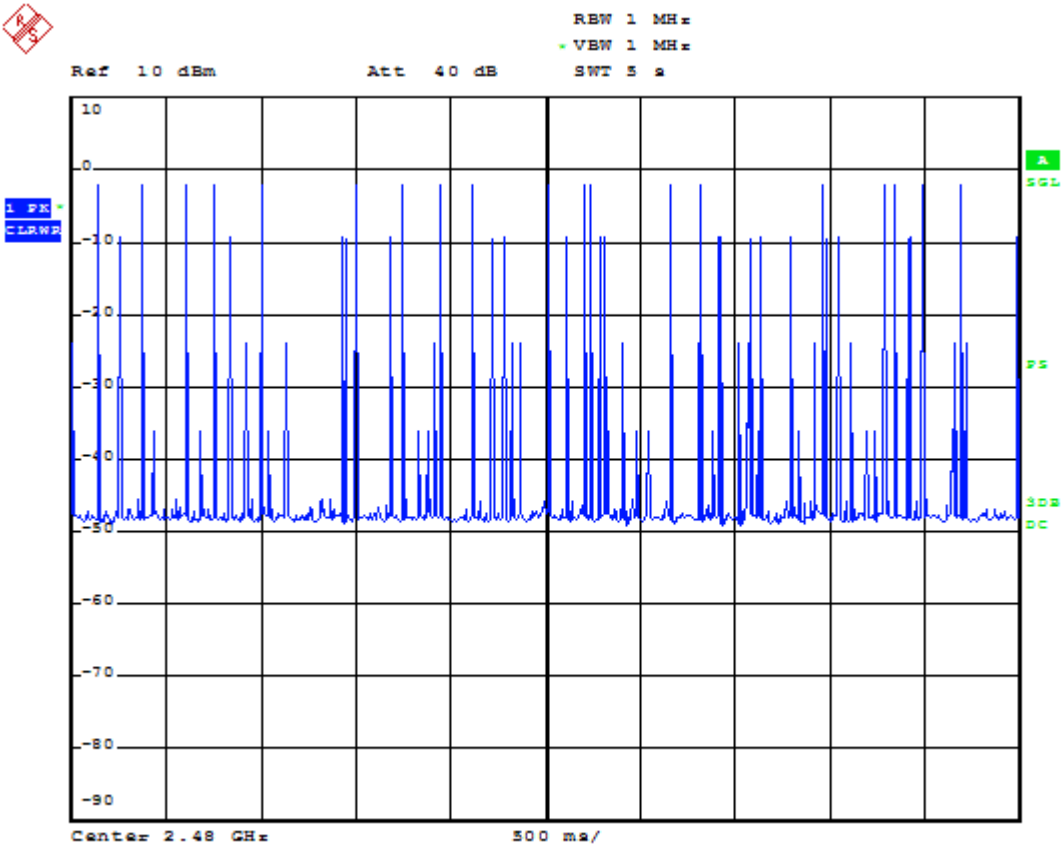
For Ch 78 2480MHz NON-EDR DH1



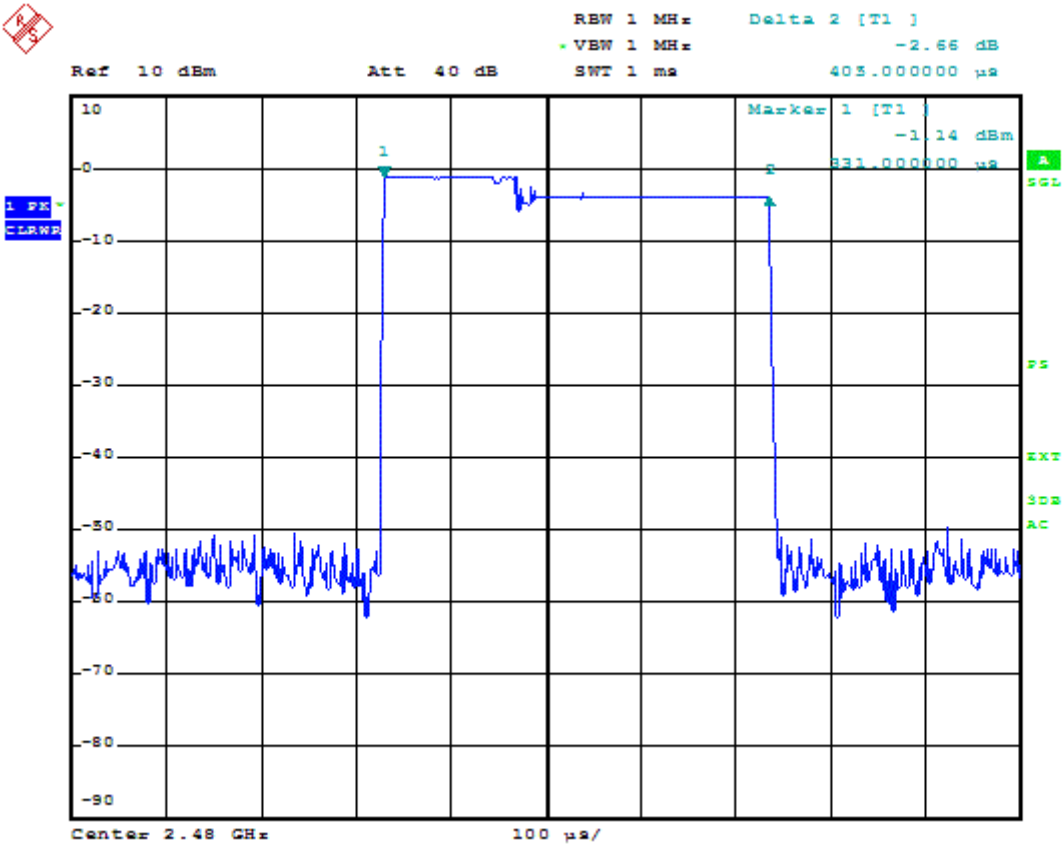
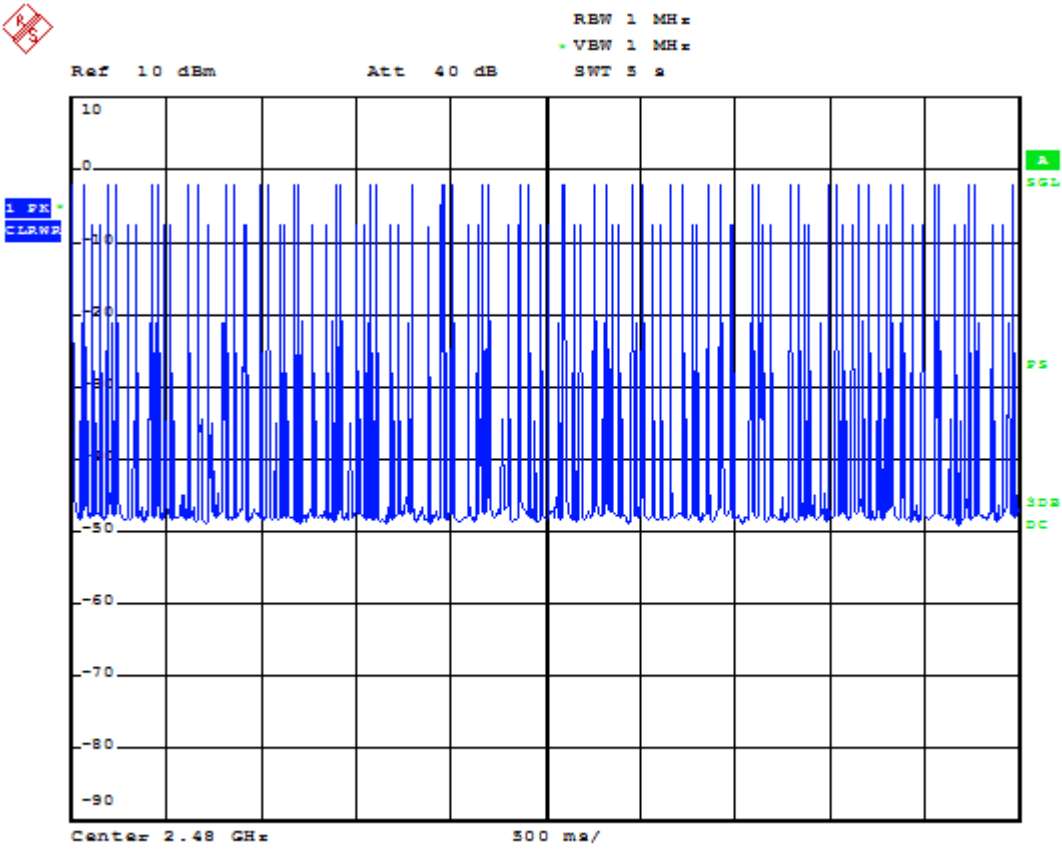
For Ch 78 2480MHz NON-EDR DH3



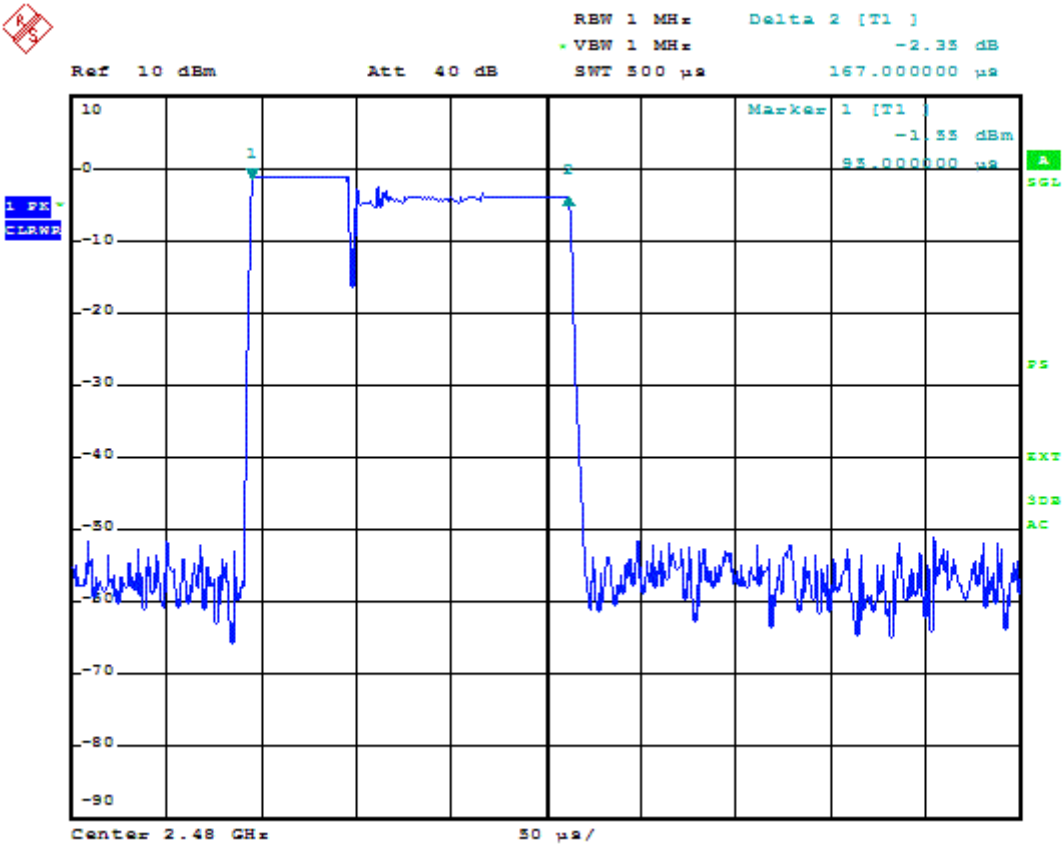
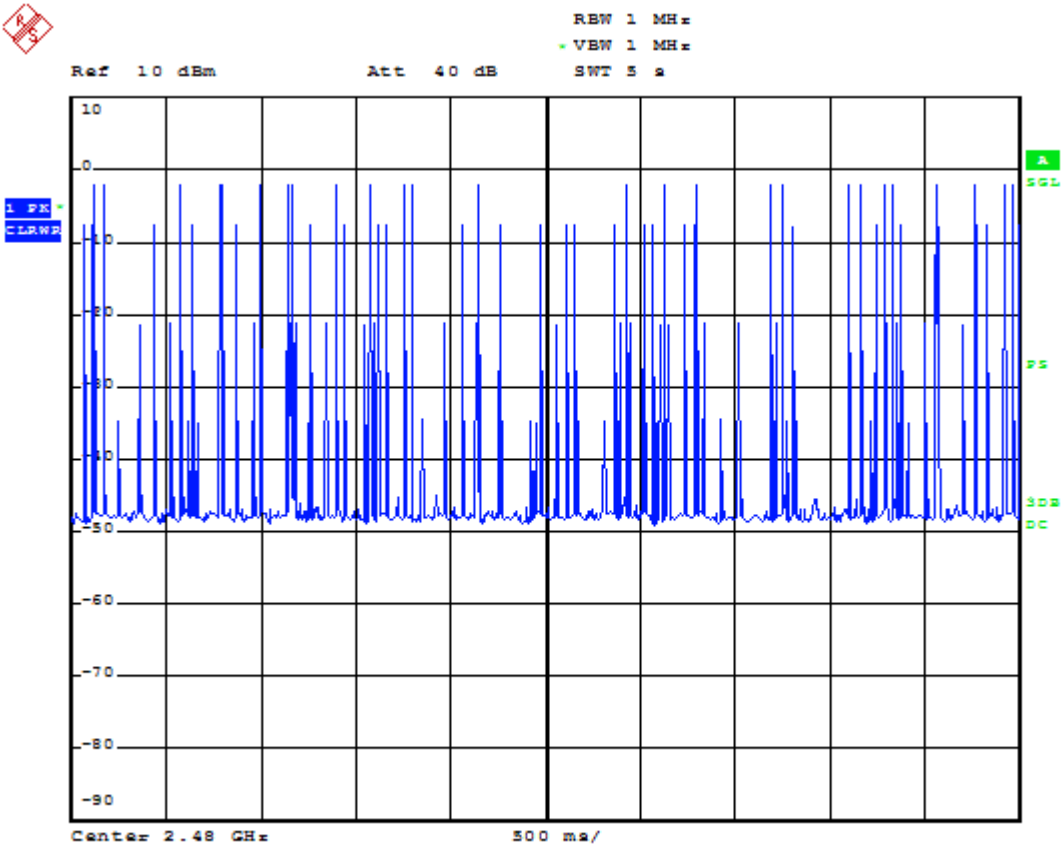
For Ch 78 2480MHz NON-EDR DH5



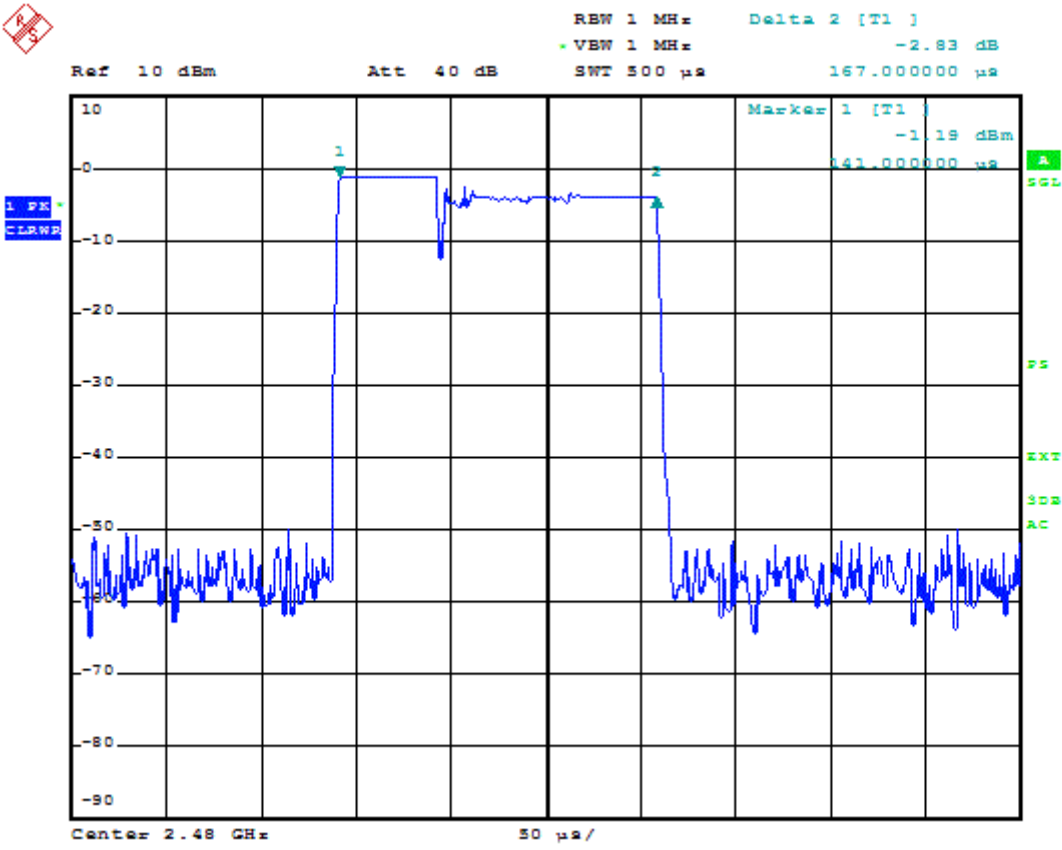
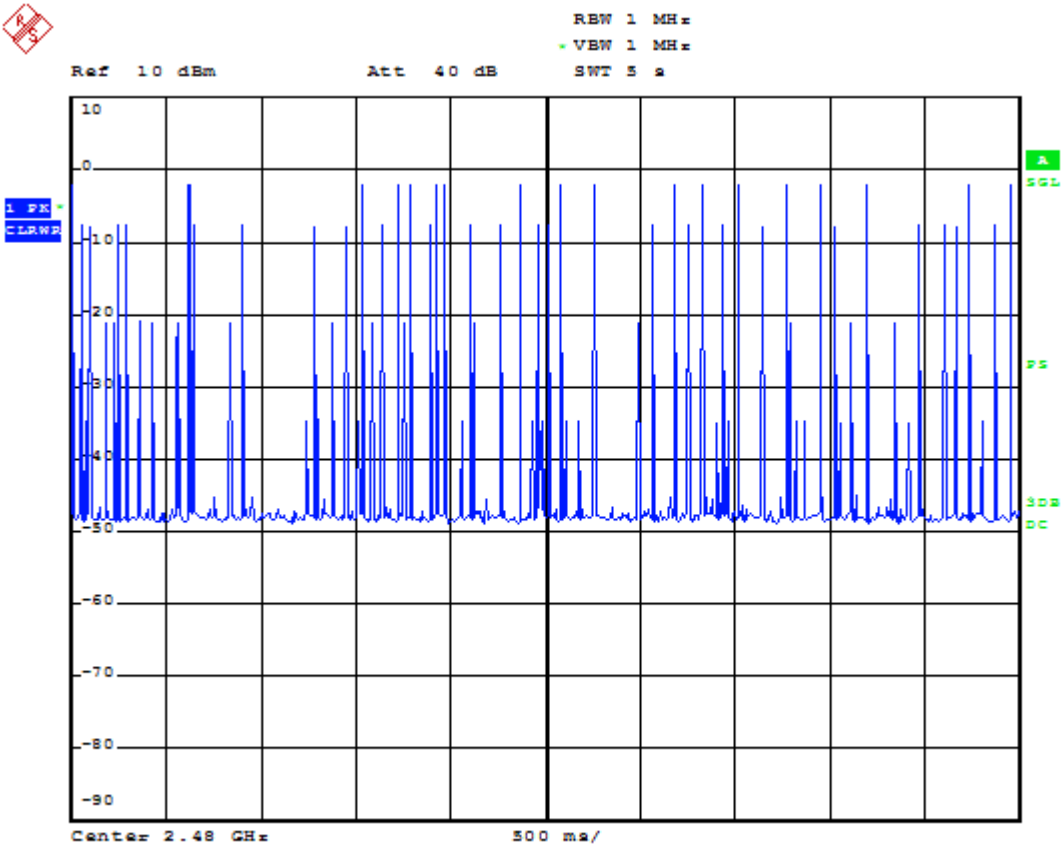
For Ch 78 2480MHz EDR DH1



For Ch 78 2480MHz EDR DH3



For Ch 78 2480MHz EDR DH5



11 DEVIATION TO TEST SPECIFICATIONS

None.