

Application for FCC Certification
On behalf of

Hisense Electric Co., Ltd.

Product Name: Pulse Remote Control

Model No.: ERF6A11, ERF6B11

FCC ID: W9HBRCB0003

Prepared For : Hisense Electric Co., Ltd.
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Date of Report : Jul. 15, 2013

TABLE OF CONTENTS

	Page
1 SUMMARY OF STANDARDS AND RESULTS.....	5
1.1 Description of Standards and Results.....	5
2 GENERAL INFORMATION.....	6
2.1 Description of Equipment Under Test.....	6
2.2 Description of Test Facility	7
2.3 Measurement Uncertainty	7
3 RADIATED EMISSION TEST.....	8
3.1 Test Equipment.....	8
3.2 Block Diagram of Test Setup	8
3.3 Radiated Emission Limit [FCC Part 15 Subpart C 15.209]	9
3.4 Test Configuration.....	9
3.5 Operating Condition of EUT	9
3.6 Test Procedures	9
3.7 Test Results	11
4 20 dB BANDWIDTH MEASUREMENT.....	20
4.1 Test Equipment.....	20
4.2 Block Diagram of Test Setup	20
4.3 Specification Limits (§15.247(a)(1)).....	20
4.4 Operating Condition of EUT	20
4.5 Test Procedure	20
4.6 Test Results	21
5 PEAK OUTPUT POWER MEASUREMENT	25
5.1 Test Equipment.....	25
5.2 Block Diagram of Test Setup	25
5.3 Specification Limits ((§15.247(b)(1))	25
5.4 Operating Condition of EUT	25
5.5 Test Procedure.....	25
5.6 Test Results	25
6 SPURIOUS RF CONDUCTED EMISSIONS MEASUREMENT.....	29
6.1 Test Equipment.....	29
6.2 Block Diagram of Test Setup	29
6.3 Specification Limits (§15.247(d))	29
6.4 Operating Condition of EUT	29
6.5 Test Procedure.....	29
6.6 Test Results	29
7 BAND-EDGE COMPLIANCE OF RF CONDUCTED EMISSIONS MEASUREMENT.....	48
7.1 Test Equipment.....	48
7.2 Block Diagram of Test Setup	48
7.3 Specification Limits (§15.247(d))	48
7.4 Operating Condition of EUT	48
7.5 Test Procedure.....	48
7.6 Test Results	49
8 NUMBER OF HOPPING FREQUENCIES MEASUREMENT	54
8.1 Test Equipment.....	54

8.2 Block Diagram of Test Setup 54

8.3 Specification Limits (§15.247(a)(1)(iii))..... 54

8.4 Operating Condition of EUT 54

8.5 Test Procedure..... 54

8.6 Test Results 54

9 CARRIER FREQUENCY SEPARATION MEASUREMENT 57

9.1 Test Equipment..... 57

9.2 Block Diagram of Test Setup 57

9.3 Specification Limits (§15.247(a)(1))..... 57

9.4 Operating Condition of EUT 57

9.5 Test Procedure..... 57

9.6 Test Results 57

10 DEWLL TIME MEASUREMENT 59

10.1 Test Equipment..... 59

10.2 Block Diagram of Test Setup 59

10.3 Specification Limits (§15.247(a)(1)(iii))..... 59

10.4 Operating Condition of EUT 59

10.5 Test Procedure..... 59

10.6 Test Results 59

11 DEVIATION TO TEST SPECIFICATIONS 81

TEST REPORT FOR FCC CERTIFICATE

Applicant : Hisense Electric Co., Ltd.

Manufacturer : Hisense Electric Co., Ltd.

EUT Description : Pulse Remote Control

(A) Model No. : ERF6A11, ERF6B11

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

(C) Test Voltage : DC 3V using brand new batteries

Test Procedure Used:

*FCC RULES AND REGULATIONS PART 15 SUBPART C OCTOBER 2012
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: ERF6A11, ERF6B11), which was tested on Jul. 08 – 12, 2013 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.

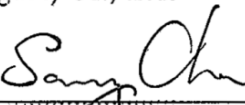
This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

Date of Test : Jul. 08 – 12, 2013 Date of Report : Jul. 15, 2013

Producer : 
KATHY WANG / Assistant

Review : 
DIO YANG / Assistant 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 2012 AND ANSI C63.4:2003	N/A	15.207
Spurious Radiated Emissions Measurement	FCC RULES AND REGULATIONS PART 15 SUBPART C October 2012 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 2012 AND DA 00-705	Pass	15.247(a)(1)
Peak Output Power Measurement	FCC RULES AND REGULATIONS PART 15 SUBPART C October 2012 AND DA 00-705	Pass	15.247(b)(1)
Spurious RF Conducted Emissions Measurement	FCC RULES AND REGULATIONS PART 15 SUBPART C October 2012 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 2012 AND DA 00-705	Pass	15.247(d)
Number of Hopping Frequencies Measurement	FCC RULES AND REGULATIONS PART 15 SUBPART C October 2012 AND DA 00-705	Pass	15.247(a)(1)
Carrier Frequency Separation Measurement	FCC RULES AND REGULATIONS PART 15 SUBPART C October 2012 AND DA 00-705	Pass	15.247(a)(1)
Dwell Time Measurement	FCC RULES AND REGULATIONS PART 15 SUBPART C October 2012 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 : Pulse Remote Control

Model Number : ERF6A11, ERF6B11

Type of EUT Production Pre-product Pro-type

Note : The above models are identical except for general appearance.
The ERF6B11 was tested and recorded in the report.

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 Gain : 2.5 dBi

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 = 4.14dB (Horizontal) U = 4.28dB (Vertical)
Radiated Emission Expanded Uncertainty (200M-1GHz):	U = 4.18dB (Horizontal) U = 4.26dB (Vertical)
Radiated Emission Expanded Uncertainty (Above 1GHz):	U= 4.50 dB (Horizontal) U= 4.16 dB (Vertical)
20 dB Bandwidth Expanded Uncertainty	: U = 0.05 kHz
Peak Output Power Expanded Uncertainty	: U = 0.30 dB
Spurious RF Conducted Emissions Expanded Uncertainty	: U = 0.15 dB

3 RADIATED EMISSION TEST

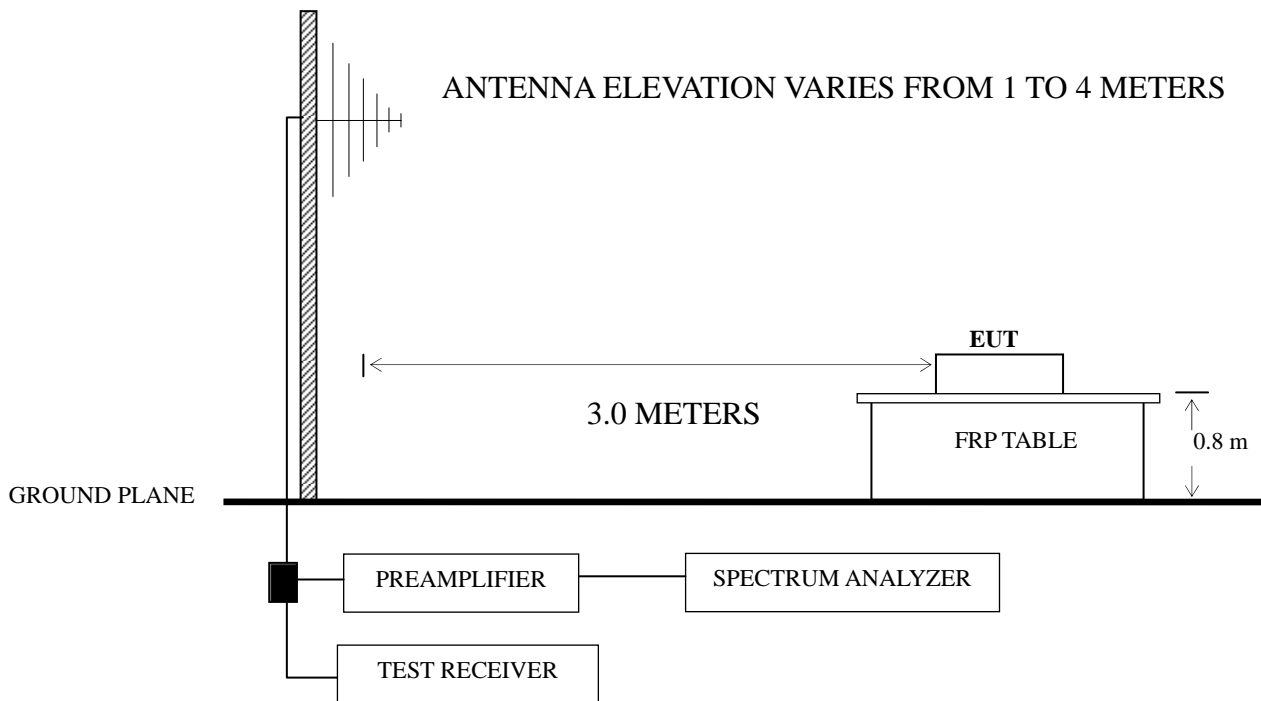
3.1 Test Equipment

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	Mar 18, 2013	Sep 18, 2013
2.	Preamplifier	HP	8449B	3008A00864	Mar 18, 2013	Sep 18, 2013
3.	Spectrum Analyzer	Agilent	E7405A	MY45106600	Dec 17, 2012	Dec 17, 2013
4.	Test Receiver	R&S	ESCI	101302	Sep 11, 2012	Sep 11, 2013
5.	Bi-log Antenna	TESEQ	CBL6112D	23192	Nov 29, 2013	Nov 29, 2014
6.	Horn Antenna	EMCO	3115	9607-4878	May 11, 2013	May 11, 2014
7.	Horn Antenna	EMCO	3116	00062643	Jul 21, 2012	Jul 21, 2013
8.	50 Ω Coaxial Switch	Anritsu	MP59B	6200426390	Mar 18, 2013	Sep 18, 2013
9.	Software	Audix	E3	SET00200 9912M295-2	-	-

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 : Pulse Remote Control Temperature : 25°C

Model No. : ERF6B11 Humidity : 45%RH

Test Mode : Transmitting Ch00
(NON-EDR) Date of Test : Jul. 08, 2013

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	114.39	0.31	11.92	1.42	--	13.65	43.50	29.85	QP
	285.11	3.59	12.50	2.43	--	18.52	46.00	27.48	
	422.85	0.01	17.37	2.75	--	20.13	46.00	25.87	
	579.02	0.74	19.20	3.17	--	23.11	46.00	22.89	
	878.75	1.88	20.27	4.31	--	26.46	46.00	19.54	
	981.57	1.06	21.23	4.81	--	27.10	54.00	26.90	PK
	2197.00	48.69	29.85	4.64	35.92	47.26	74.00	26.74	
	2773.00	45.93	28.96	5.44	35.98	44.35	74.00	29.65	
	5896.00	42.18	33.70	8.30	35.88	48.30	74.00	25.70	
	7206.00	53.15	34.87	9.51	36.09	61.44	74.00	12.56	
	7206.00	36.90	34.87	9.51	36.09	45.19	54.00	8.81	AV
Vertical	30.97	-1.20	18.10	0.65	--	17.55	40.00	22.45	QP
	76.56	13.91	7.03	1.01	--	21.95	40.00	18.05	
	125.06	9.96	12.40	1.49	--	23.85	43.50	19.65	
	259.89	11.18	12.60	2.25	--	26.03	46.00	19.97	
	430.61	5.70	17.50	2.78	--	25.98	46.00	20.02	
	859.35	7.22	19.70	4.08	--	31.00	46.00	15.00	PK
	2008.00	45.52	30.97	4.46	35.90	45.05	74.00	28.95	
	2971.00	45.46	29.45	5.79	36.00	44.70	74.00	29.30	
	5626.00	41.40	33.97	7.91	35.83	47.45	74.00	26.55	
	7206.00	58.20	34.87	9.51	36.09	66.49	74.00	7.51	
	7206.00	40.00	34.87	9.51	36.09	48.29	54.00	5.71	AV

TEST ENGINEER: NEAL WANG

EUT : Pulse Remote Control Temperature : 25°C

Model No. : ERF6B11 Humidity : 45%RH

Test Mode : Transmitting Ch39
(NON-EDR) Date of Test : Jul. 08, 2013

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	117.30	0.05	11.95	1.44	--	13.44	43.50	30.06	QP
	178.41	4.45	7.97	1.80	--	14.22	43.50	29.28	
	285.11	3.77	12.50	2.43	--	18.70	46.00	27.30	
	419.94	0.26	17.30	2.75	--	20.31	46.00	25.69	
	553.80	-0.80	19.78	3.09	--	22.07	46.00	23.93	
	873.90	1.22	20.23	4.19	--	25.64	46.00	20.36	PK
	2233.00	47.61	29.60	4.67	35.92	45.96	74.00	28.04	
	3880.00	41.87	32.95	5.90	35.45	45.27	74.00	28.73	
	5509.00	41.07	34.10	7.65	35.81	47.01	74.00	26.99	
	7323.00	45.08	35.55	9.51	36.14	54.00	74.00	20.00	
	7323.00	28.39	35.55	9.51	36.14	37.31	54.00	16.69	AV
Vertical	32.91	9.27	16.55	0.68	--	26.50	40.00	13.50	QP
	51.34	15.03	7.16	0.84	--	23.03	40.00	16.97	
	91.11	14.09	8.55	1.23	--	23.87	43.50	19.63	
	331.67	5.16	14.15	2.61	--	21.92	46.00	24.08	
	430.61	4.64	17.50	2.78	--	24.92	46.00	21.08	
	526.64	7.71	17.90	3.02	--	28.63	46.00	17.37	PK
	1999.00	45.20	31.00	4.46	35.90	44.76	74.00	29.24	
	2944.00	45.06	29.39	5.72	36.00	44.17	74.00	29.83	
	5788.00	41.01	33.81	8.17	35.86	47.13	74.00	26.87	
	7323.00	48.10	35.55	9.51	36.14	57.02	74.00	16.98	
	7323.00	30.76	35.55	9.51	36.14	39.68	54.00	14.32	AV

TEST ENGINEER: NEAL WANG

EUT : Pulse Remote Control Temperature : 25°C

Model No. : ERF6B11 Humidity : 45%RH

Test Mode : Transmitting Ch78
(NON-EDR) Date of Test : Jul. 08, 2013

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	31.94	-1.24	17.10	0.66	--	16.52	40.00	23.48	QP
	130.88	-0.44	11.88	1.53	--	12.97	43.50	30.53	
	285.11	3.31	12.50	2.43	--	18.24	46.00	27.76	
	551.86	-0.78	19.90	3.09	--	22.21	46.00	23.79	
	695.42	0.55	19.97	3.52	--	24.04	46.00	21.96	
	993.21	0.44	20.90	4.81	--	26.15	54.00	27.85	
	2269.00	49.72	29.39	4.70	35.93	47.88	74.00	26.12	PK
	3664.00	41.47	32.01	6.06	35.57	43.97	74.00	30.03	
	6805.00	42.61	33.76	8.96	35.98	49.35	74.00	24.65	
	7440.00	42.54	36.19	9.52	36.19	52.06	74.00	21.94	
Vertical	51.34	15.19	7.16	0.84	--	23.19	40.00	16.81	QP
	85.29	4.88	7.83	1.13	--	13.84	40.00	26.16	
	130.88	-0.22	11.88	1.53	--	13.19	43.50	30.31	
	325.85	0.44	13.95	2.60	--	16.99	46.00	29.01	
	430.61	4.65	17.50	2.78	--	24.93	46.00	21.07	
	549.92	2.80	19.90	3.09	--	25.79	46.00	20.21	
	1972.00	45.21	30.80	4.42	35.92	44.51	74.00	29.49	PK
	2764.00	46.85	28.94	5.44	35.98	45.25	74.00	28.75	
	5473.00	40.92	33.85	7.65	35.80	46.62	74.00	27.38	
	7440.00	42.60	36.19	9.52	36.19	52.12	74.00	21.88	

TEST ENGINEER: NEAL WANG

EUT : Pulse Remote Control Temperature : 25°C
 Model No. : ERF6B11 Humidity : 45%RH
 Transmitting Ch00
 Test Mode : (EDR) Date of Test : Jul. 08, 2013

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	34.85	-1.22	15.65	0.70	--	15.13	40.00	24.87	QP
	117.30	-0.24	11.95	1.44	--	13.15	43.50	30.35	
	252.13	2.96	11.93	2.20	--	17.09	46.00	28.91	
	285.11	3.50	12.50	2.43	--	18.43	46.00	27.57	
	548.95	-0.91	19.83	3.07	--	21.99	46.00	24.01	
	672.93	0.90	20.23	4.19	--	25.32	46.00	20.68	PK
	2197.00	47.72	29.85	4.64	35.92	46.29	74.00	27.71	
	4384.00	40.96	32.46	6.69	35.52	44.59	74.00	29.41	
	5842.00	41.66	33.75	8.17	35.87	47.71	74.00	26.29	
	7206.00	58.94	34.87	9.51	36.09	67.23	74.00	6.77	
	7206.00	42.00	34.87	9.51	36.09	50.29	54.00	3.71	AV
Vertical	36.79	1.56	14.66	0.72	--	16.94	40.00	23.06	QP
	103.72	2.90	11.56	1.36	--	15.82	43.50	27.68	
	141.55	4.57	10.60	1.58	--	16.75	43.50	26.75	
	292.87	5.94	12.98	2.50	--	21.42	46.00	24.58	
	430.61	3.49	17.50	2.78	--	23.77	46.00	22.23	
	526.64	4.68	17.90	3.02	--	25.60	46.00	20.40	PK
	1981.00	44.90	30.88	4.42	35.91	44.29	74.00	29.71	
	2980.00	46.72	29.46	5.79	36.00	45.97	74.00	28.03	
	5869.00	40.99	33.73	8.30	35.88	47.14	74.00	26.86	
	7206.00	57.72	34.87	9.51	36.09	66.01	74.00	7.99	
	7206.00	40.31	34.87	9.51	36.09	48.60	54.00	5.40	AV

TEST ENGINEER: NEAL WANG

EUT : Pulse Remote Control Temperature : 25°C

Model No. : ERF6B11 Humidity : 45%RH

Transmitting Ch39

Test Mode : (EDR) Date of Test : Jul. 08, 2013

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	30.97	-1.06	18.10	0.65	--	17.69	40.00	22.31	QP
	285.11	2.84	12.50	2.43	--	17.77	46.00	28.23	
	306.45	4.83	12.83	2.57	--	20.23	46.00	25.77	
	424.79	1.10	17.40	2.76	--	21.26	46.00	24.74	
	680.87	0.21	19.30	3.47	--	22.98	46.00	23.02	
	871.96	1.54	20.20	4.19	--	25.93	46.00	20.07	
	1945.00	45.07	30.60	4.39	35.94	44.12	74.00	29.88	PK
	2944.00	46.80	29.39	5.72	36.00	45.91	74.00	28.09	
	5617.00	40.77	33.99	7.91	35.83	46.84	74.00	27.16	
	7323.00	43.72	35.55	9.51	36.14	52.64	74.00	21.36	
Vertical	33.88	1.08	16.07	0.69	--	17.84	40.00	22.16	QP
	103.72	8.21	11.56	1.36	--	21.13	43.50	22.37	
	235.64	4.80	9.87	2.10	--	16.77	46.00	29.23	
	430.61	6.32	17.50	2.78	--	26.60	46.00	19.40	
	526.64	4.33	17.90	3.02	--	25.25	46.00	20.75	
	859.35	7.88	19.70	4.08	--	31.66	46.00	14.34	
	2017.00	44.56	30.90	4.46	35.90	44.02	74.00	29.98	PK
	2989.00	46.23	29.48	5.79	36.00	45.50	74.00	28.50	
	5968.00	41.60	33.63	8.43	35.89	47.77	74.00	26.23	
	7323.00	49.89	35.55	9.51	36.14	58.81	74.00	15.19	
	7323.00	31.50	35.55	9.51	36.14	40.42	54.00	13.58	AV

TEST ENGINEER: NEAL WANG

EUT : Pulse Remote Control Temperature : 25°C

Model No. : ERF6B11 Humidity : 45%RH

Transmitting Ch78

Test Mode : (EDR) Date of Test : Jul. 08, 2013

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	33.88	-0.88	16.07	0.69	--	15.88	40.00	24.12	QP
	127.97	-0.88	12.22	1.51	--	12.85	43.50	30.65	
	285.11	4.13	12.50	2.43	--	19.06	46.00	26.94	
	319.06	1.95	13.73	2.59	--	18.27	46.00	27.73	
	547.98	-0.69	19.83	3.07	--	22.21	46.00	23.79	
	877.78	1.50	20.27	4.31	--	26.08	46.00	19.92	
	2026.00	45.41	30.87	4.46	35.90	44.84	74.00	29.16	PK
	2971.00	46.67	29.45	5.79	36.00	45.91	74.00	28.09	
	5725.00	40.77	33.87	8.04	35.85	46.83	74.00	27.17	
	7440.00	41.74	36.19	9.52	36.19	51.26	74.00	22.74	
Vertical	39.70	6.33	12.16	0.75	--	19.24	40.00	20.76	QP
	122.15	4.58	12.16	1.48	--	18.22	43.50	25.28	
	161.92	6.43	9.23	1.69	--	17.35	43.50	26.15	
	292.87	13.06	12.98	2.50	--	28.54	46.00	17.46	
	430.61	5.19	17.50	2.78	--	25.47	46.00	20.53	
	526.64	4.34	17.90	3.02	--	25.26	46.00	20.74	
	2080.00	46.18	30.57	4.52	35.91	45.36	74.00	28.64	PK
	2890.00	45.21	29.26	5.65	35.99	44.13	74.00	29.87	
	5635.00	41.16	33.97	7.91	35.83	47.21	74.00	26.79	
	7440.00	44.69	36.19	9.52	36.19	54.21	74.00	19.79	
	7440.00	28.85	36.19	9.52	36.19	38.37	54.00	15.63	AV

TEST ENGINEER: NEAL WANG

EUT : Pulse Remote Control Temperature : 25°C

Model No. : ERF6B11 Humidity : 45%RH

Test Mode : Receiving Date of Test : Jul. 08, 2013

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	30.97	0.10	18.10	0.65	--	18.85	40.00	21.15	QP
	128.94	-0.73	12.16	1.52	--	12.95	43.50	30.55	
	319.06	2.07	13.73	2.59	--	18.39	46.00	27.61	
	534.40	0.66	18.90	3.04	--	22.60	46.00	23.40	
	657.59	0.11	19.60	3.41	--	23.12	46.00	22.88	
	829.28	-0.16	20.60	3.90	--	24.34	46.00	21.66	PK
	2008.00	46.36	30.97	4.46	35.90	45.89	74.00	28.11	
	2269.00	48.84	29.39	4.70	35.93	47.00	74.00	27.00	
	2980.00	47.37	29.46	5.79	36.00	46.62	74.00	27.38	
	5689.00	41.27	33.92	8.04	35.85	47.38	74.00	26.62	
Vertical	30.97	-0.67	18.10	0.65	--	18.08	40.00	21.92	QP
	92.08	3.81	8.71	1.23	--	13.75	43.50	29.75	
	192.96	7.58	8.05	1.87	--	17.50	43.50	26.00	
	308.39	8.73	13.08	2.57	--	24.38	46.00	21.62	
	704.15	-0.76	19.97	3.53	--	22.74	46.00	23.26	
	875.84	3.73	20.23	4.31	--	28.27	46.00	17.73	
	1828.00	46.04	29.66	4.20	36.02	43.88	74.00	30.12	
	2989.00	45.50	29.48	5.79	36.00	44.77	74.00	29.23	
		5635.00	40.61	33.97	7.91	35.83	46.66	74.00	27.34
	6805.00	43.62	33.76	8.96	35.98	50.36	74.00	23.64	

TEST ENGINEER: NEAL WANG

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

Polarization	Frequency (MHz)	Meter Reading dB (μ V)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (μ V/m)	Limits dB (μ V/m)	Margin (dB)	Remark
Horizontal	2390.00	47.68	28.72	4.80	35.94	45.26	74.00	28.74	PK
	2483.50	58.58	28.26	4.85	35.95	55.74	74.00	18.26	
	2390.00	31.92	28.72	4.80	35.94	29.50	54.00	24.50	AV
	2483.50	41.29	28.26	4.85	35.95	38.45	54.00	15.55	
Vertical	2390.00	46.51	28.72	4.80	35.94	44.09	74.00	29.91	PK
	2483.50	60.48	28.26	4.85	35.95	57.64	74.00	16.36	
	2390.00	30.69	28.72	4.80	35.94	28.27	54.00	25.73	AV
	2483.50	43.63	28.26	4.85	35.95	40.79	54.00	13.21	

For EDR mode:

Polarization	Frequency (MHz)	Meter Reading dB (μ V)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (μ V/m)	Limits dB (μ V/m)	Margin (dB)	Remark
Horizontal	2390.00	48.08	28.72	4.80	35.94	45.66	74.00	28.34	PK
	2483.50	60.96	28.26	4.85	35.95	58.12	74.00	15.88	
	2390.00	31.00	28.72	4.80	35.94	28.58	54.00	25.42	AV
	2483.50	44.81	28.26	4.85	35.95	41.97	54.00	12.03	
Vertical	2390.00	48.71	28.72	4.80	35.94	46.29	74.00	27.71	PK
	2483.50	61.00	28.26	4.85	35.95	58.16	74.00	15.84	
	2390.00	32.03	28.72	4.80	35.94	29.61	54.00	24.39	AV
	2483.50	44.90	28.26	4.85	35.95	42.06	54.00	11.94	

TEST ENGINEER: NEAL WANG

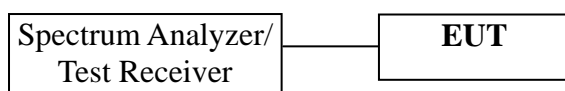
4 20 dB BANDWIDTH MEASUREMENT

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.	Test Receiver	R&S	ESCI	101303	Sep 11, 2012	Sep 11, 2013

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: Jul. 12, 2013 Temperature: 27°C Humidity: 45 %)

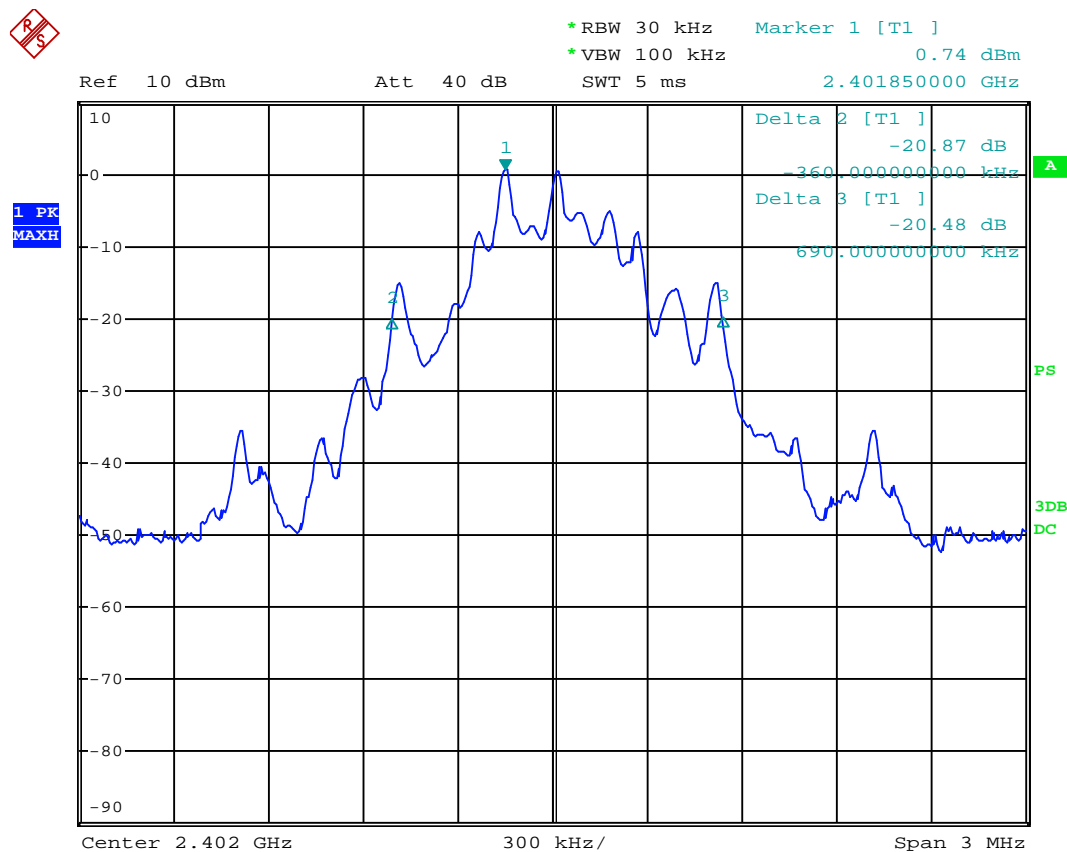
For Non-EDR

Channel	Frequency	20dB Bandwidth
00	2402 MHz	0.950 MHz
39	2441 MHz	0.950 MHz
78	2480 MHz	0.950 MHz

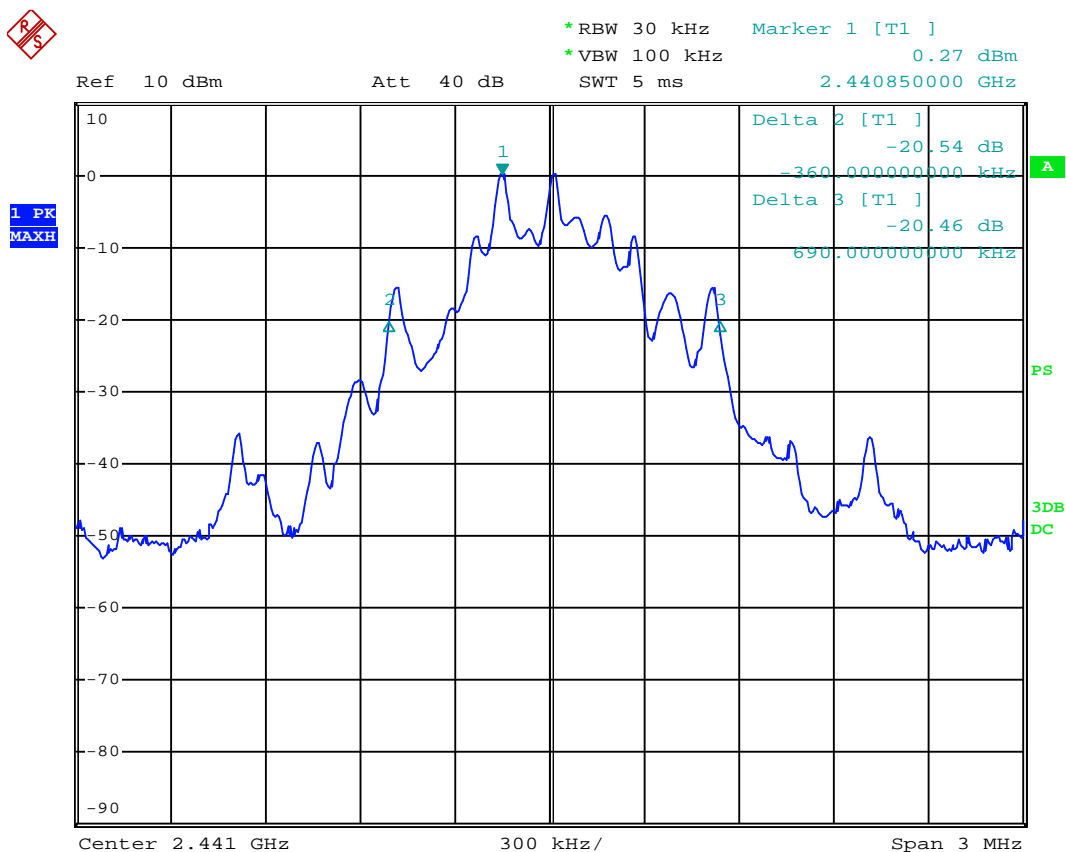
For EDR

Channel	Frequency	20dB Bandwidth
00	2402 MHz	1.164 MHz
39	2441 MHz	1.158 MHz
78	2480 MHz	1.158 MHz

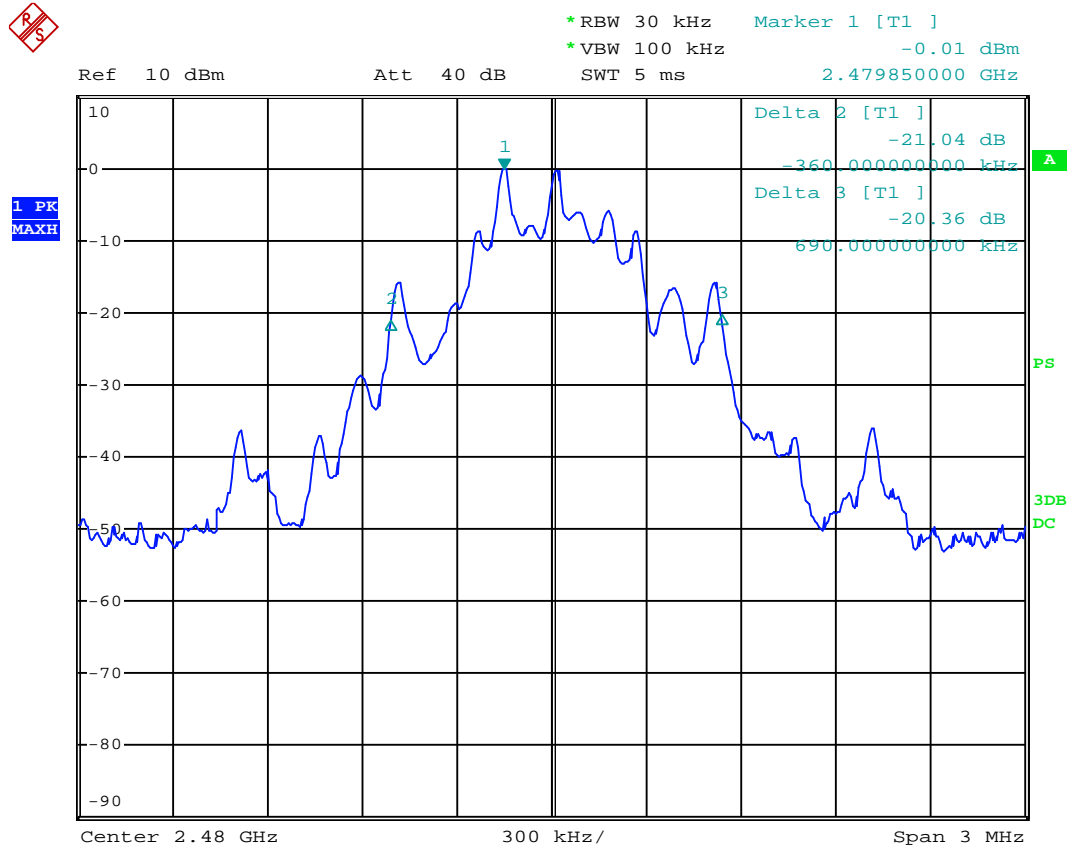
Ch 00 (2402 MHz) NON-EDR



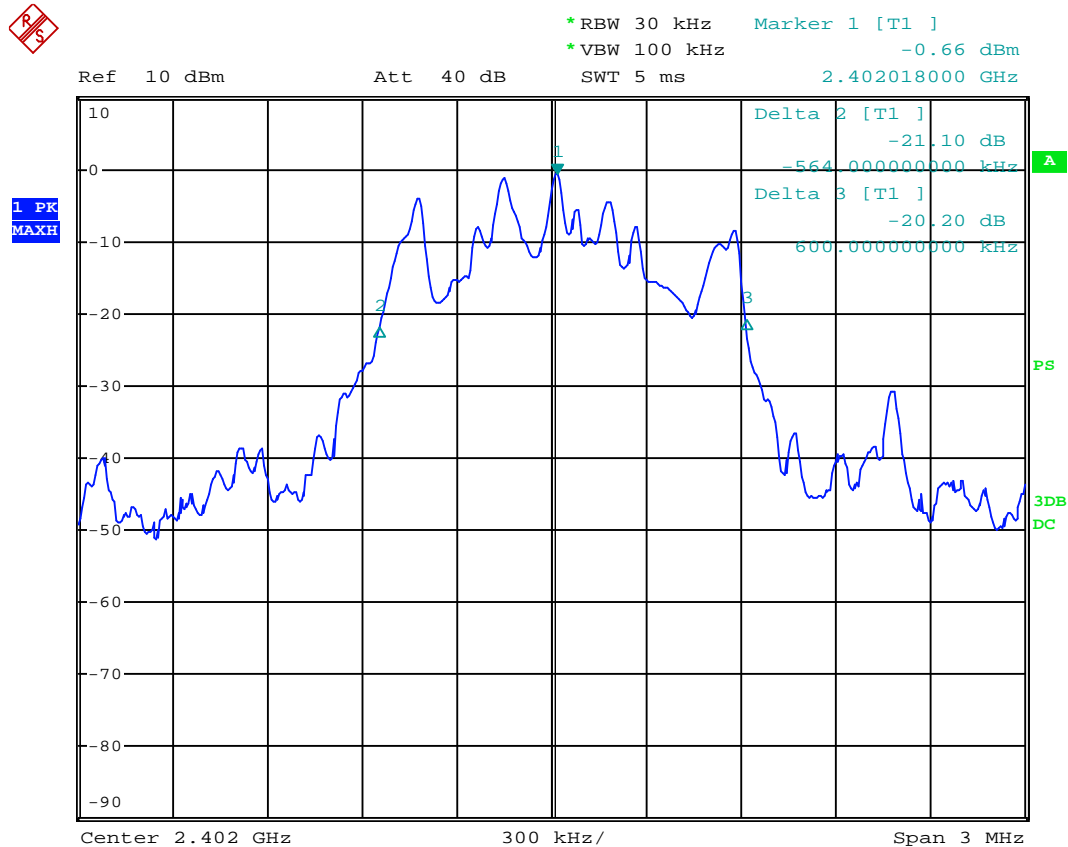
Ch 39 (2441 MHz) NON-EDR



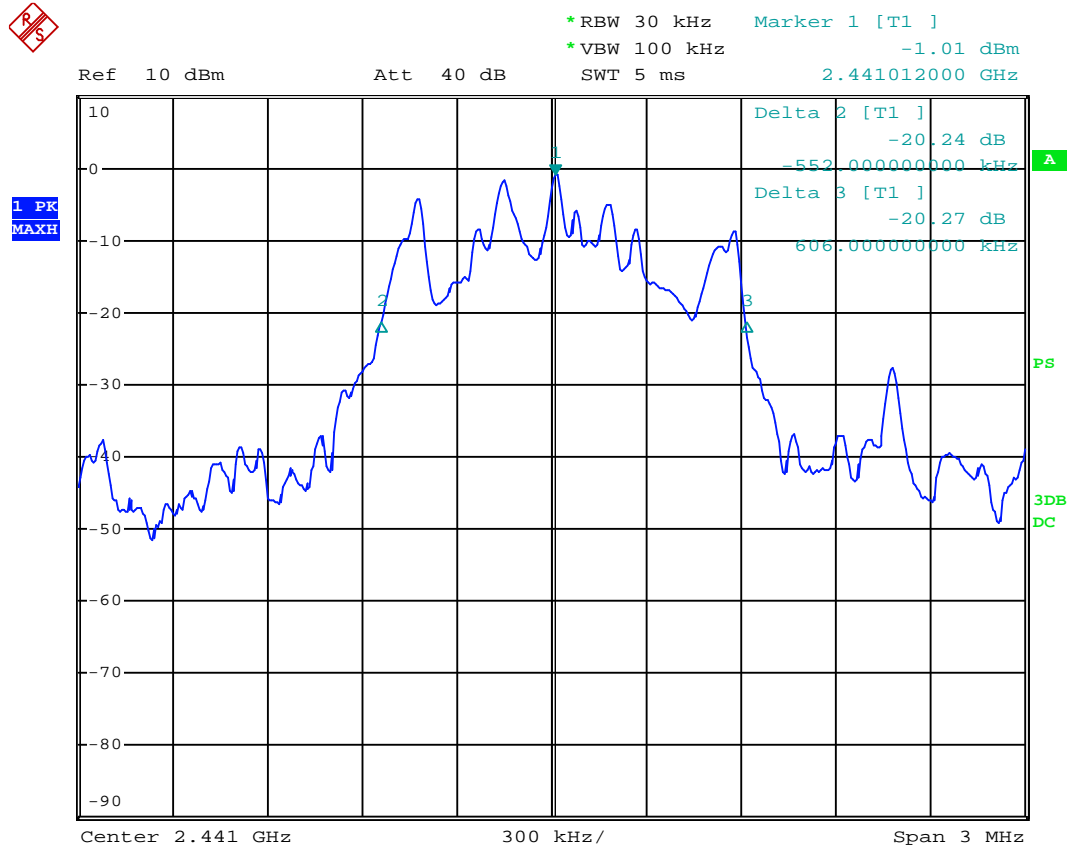
Ch 78 (2480 MHz) NON-EDR



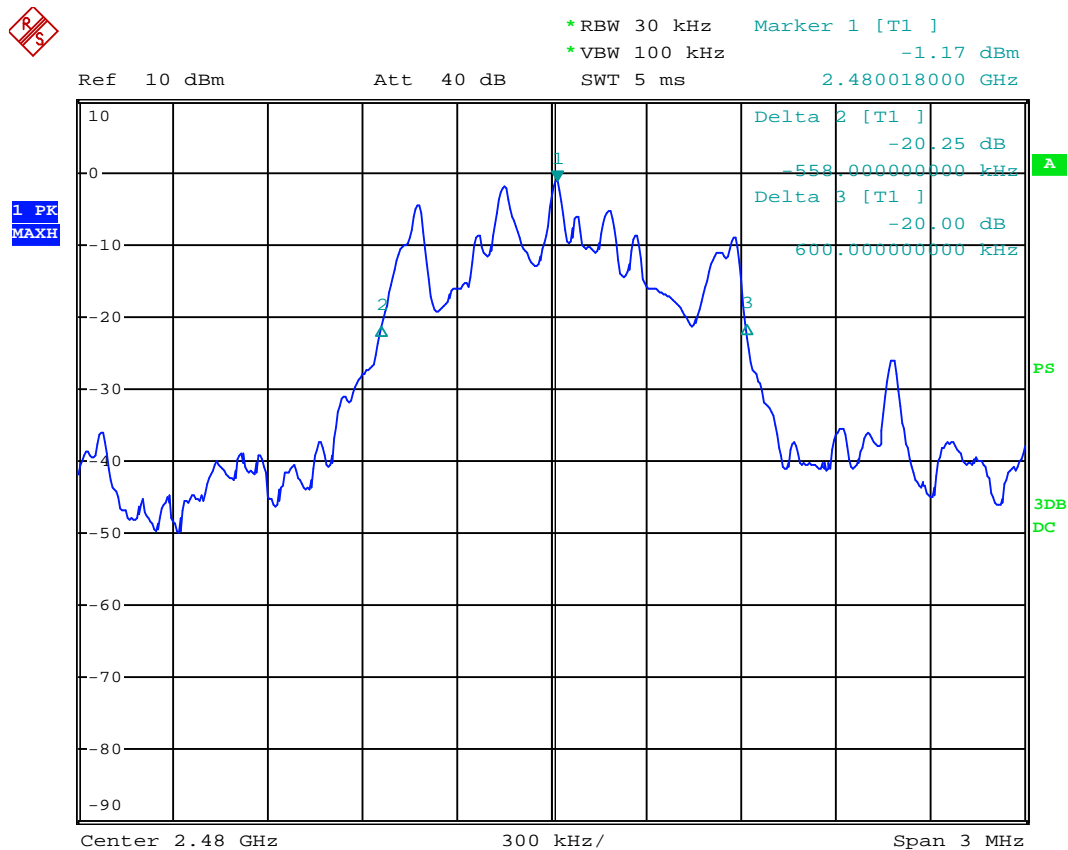
Ch 00 (2402 MHz) EDR



Ch 39 (2441 MHz) EDR



Ch 78 (2480 MHz) EDR



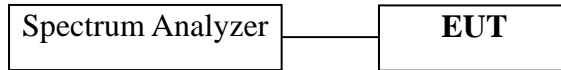
5 PEAK OUTPUT POWER MEASUREMENT

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: Jul. 10, 2013 Temperature: 27°C Humidity: 49 %)

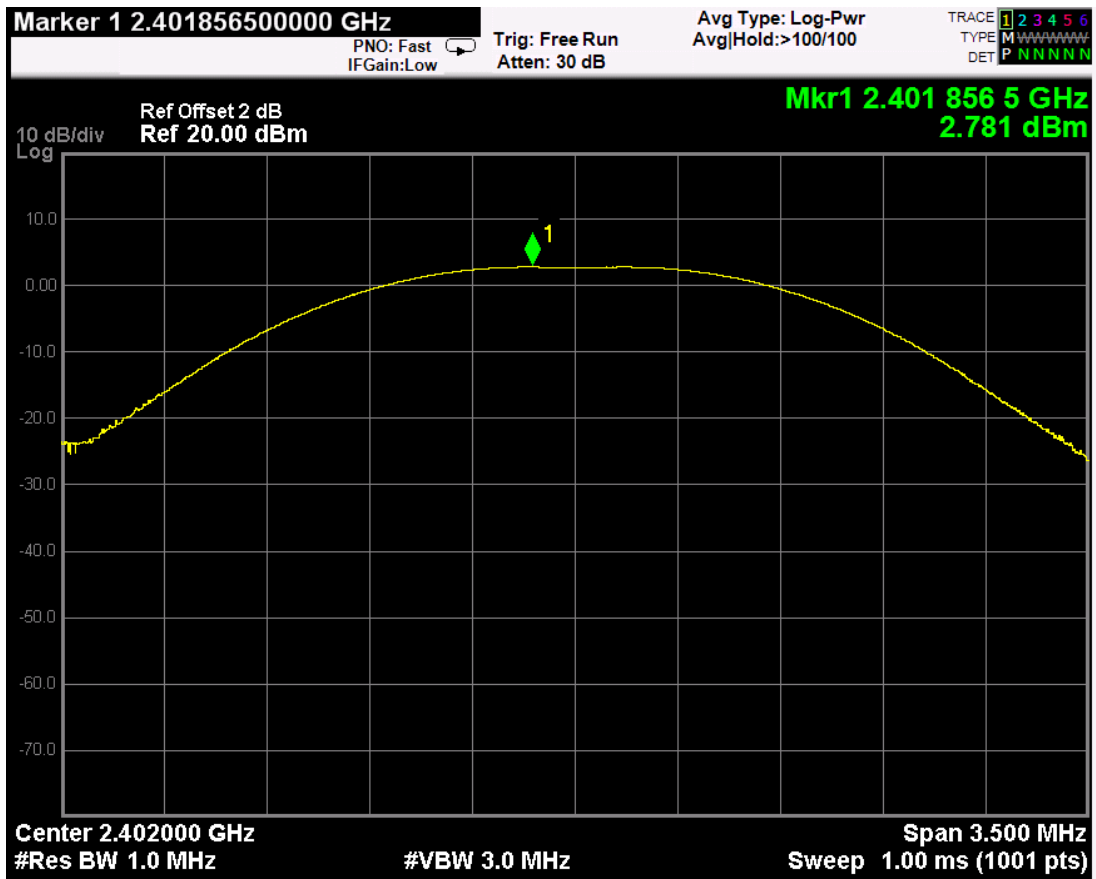
For Non-EDR

Channel	Frequency	Peak Output Power	Limit
00	2402 MHz	2.781 dBm	30 dBm
39	2441 MHz	2.709 dBm	30 dBm
78	2480 MHz	1.998 dBm	30 dBm

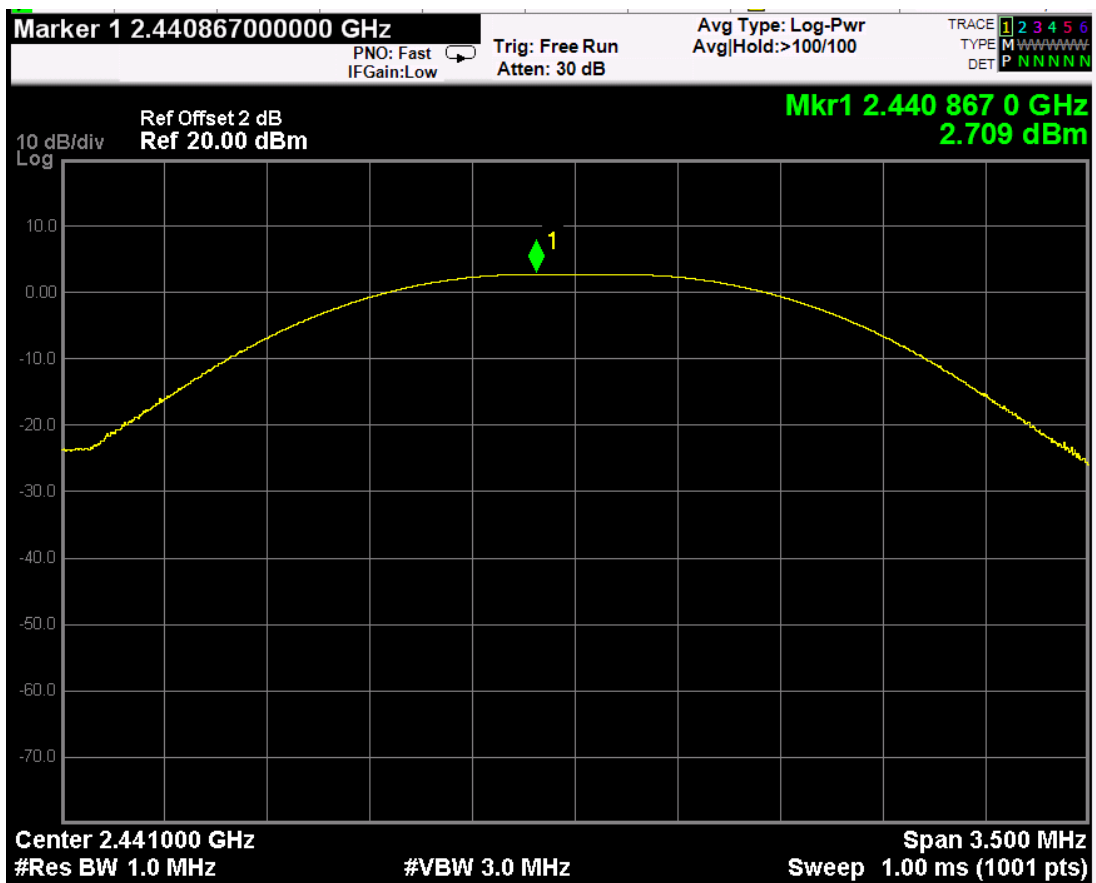
For EDR

Channel	Frequency	Peak Output Power	Limit
00	2402 MHz	3.643 dBm	30 dBm
39	2441 MHz	3.443 dBm	30 dBm
78	2480 MHz	2.690 dBm	30 dBm

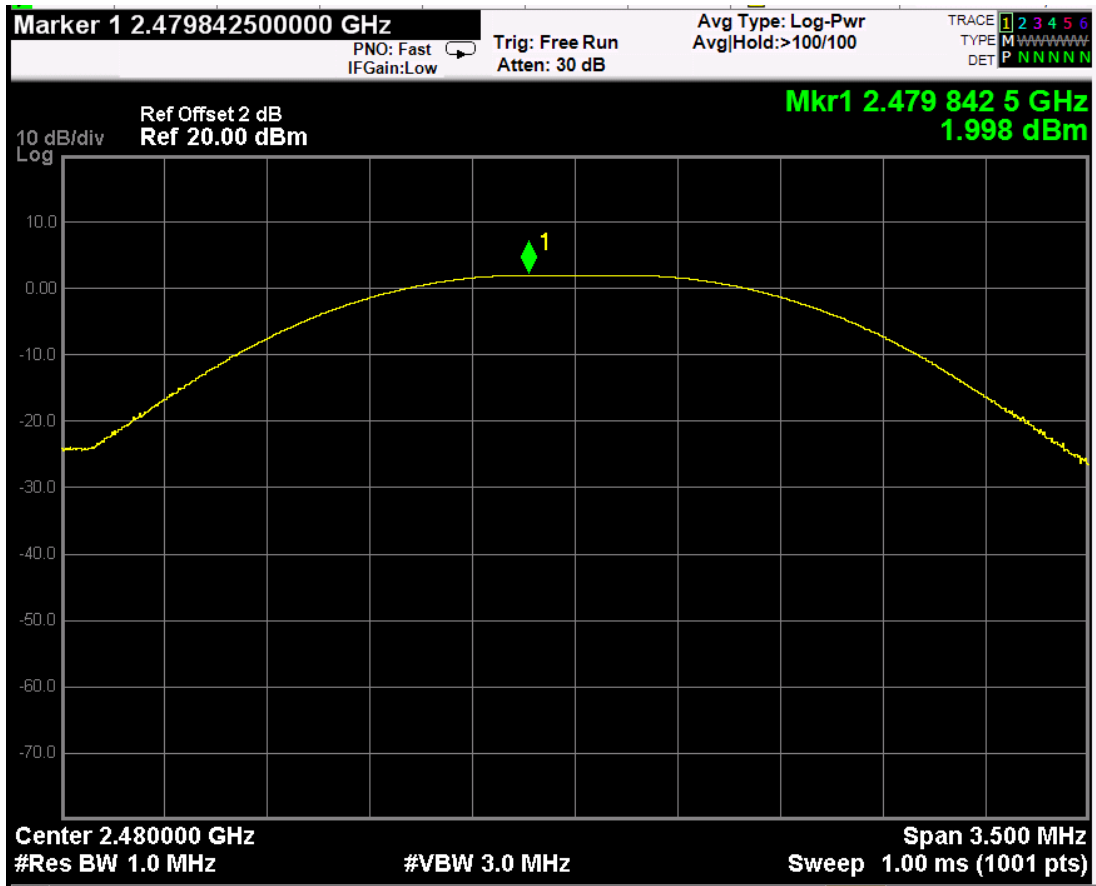
Ch 00 (2402 MHz) NON-EDR



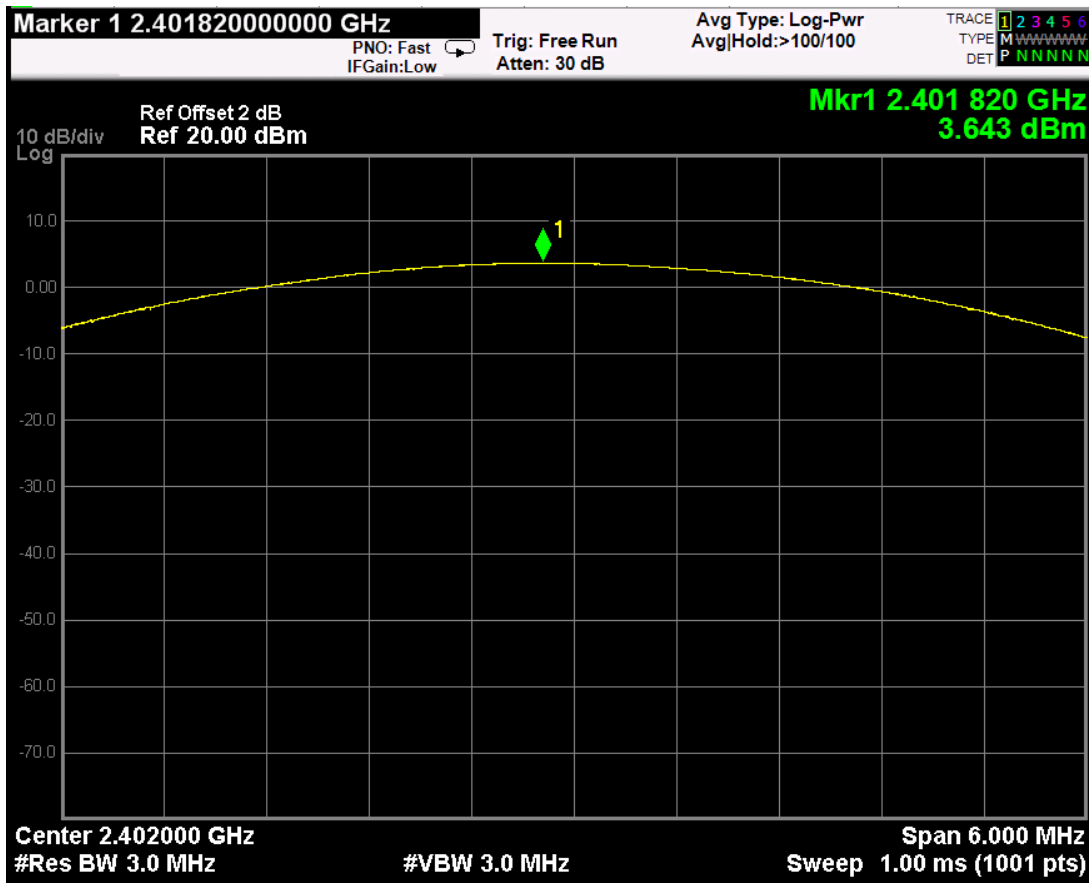
Ch 39 (2441 MHz) NON-EDR



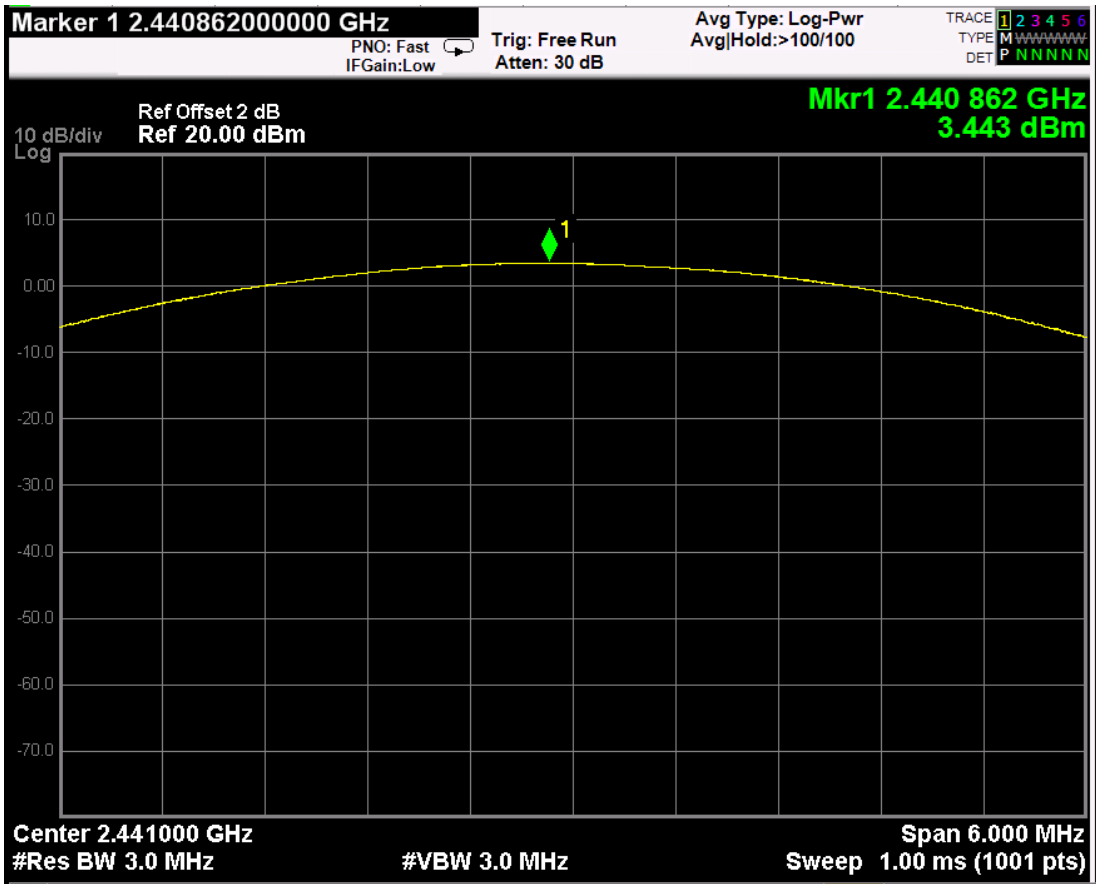
Ch 78 (2480 MHz) NON-EDR



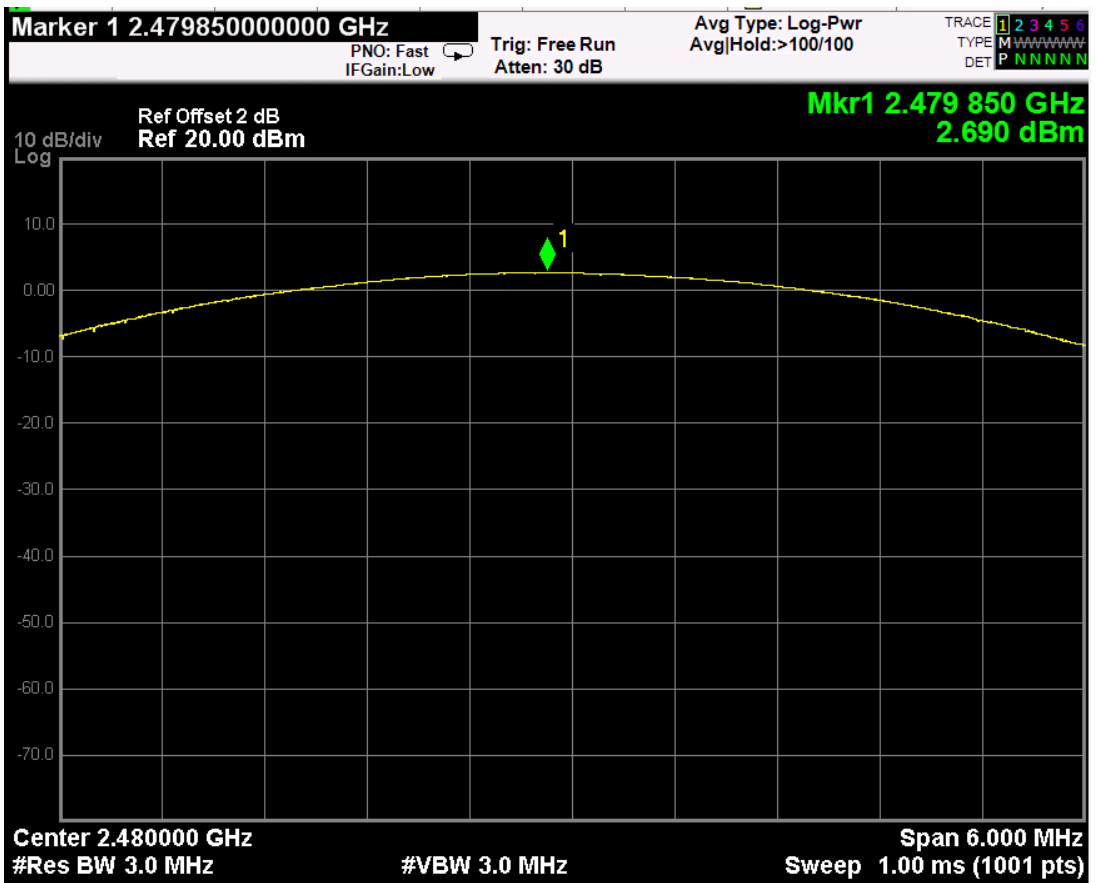
Ch 00 (2402 MHz) EDR



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.

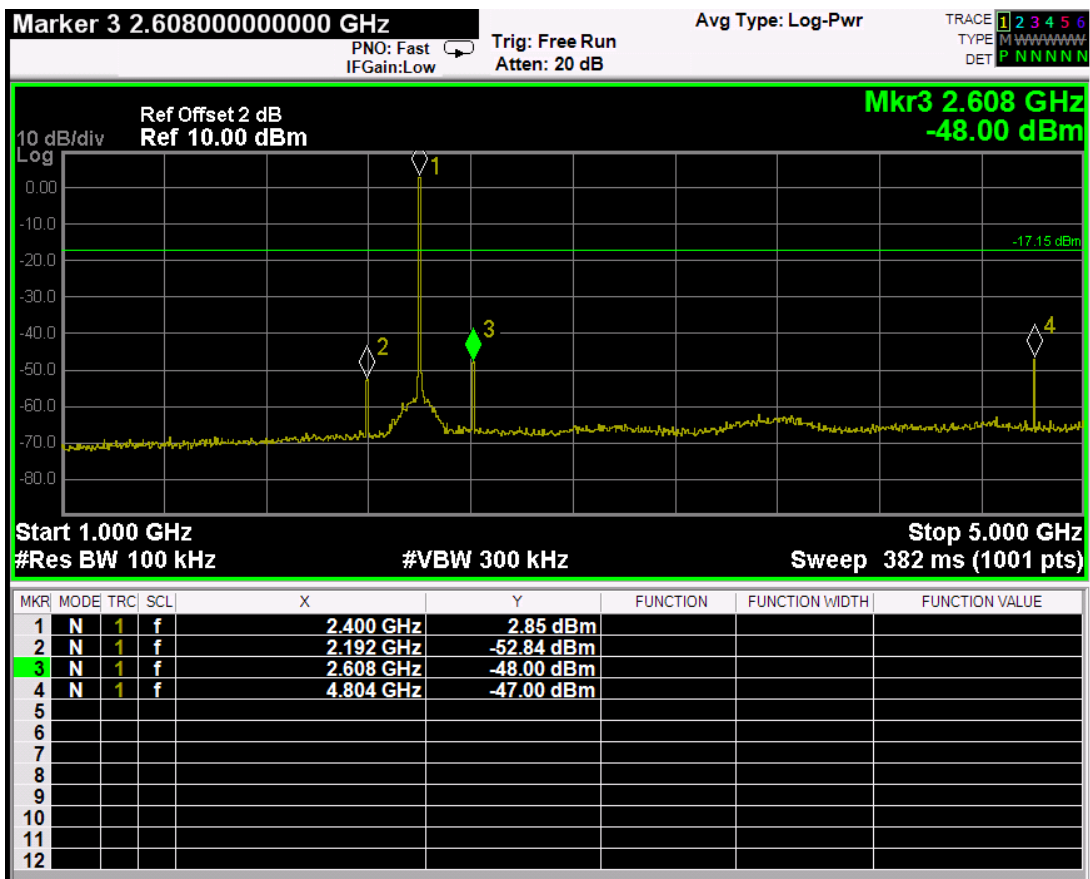
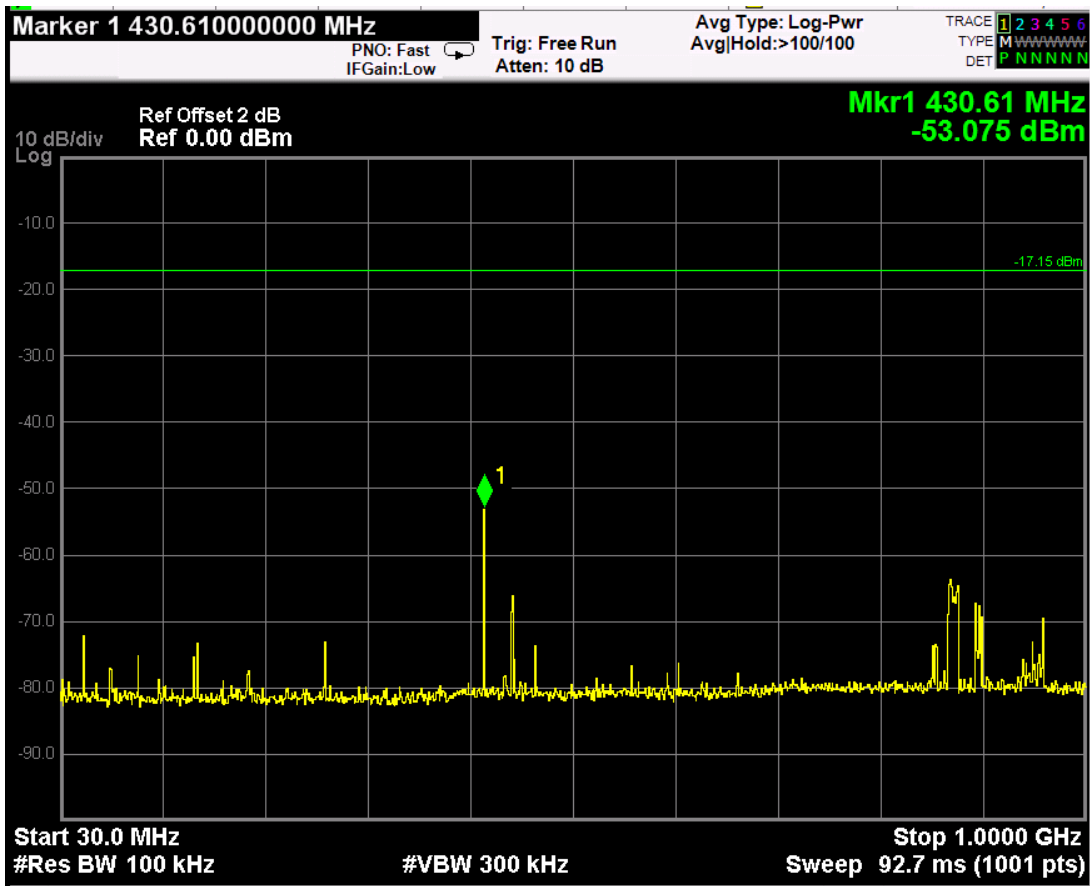
6.6 Test Results

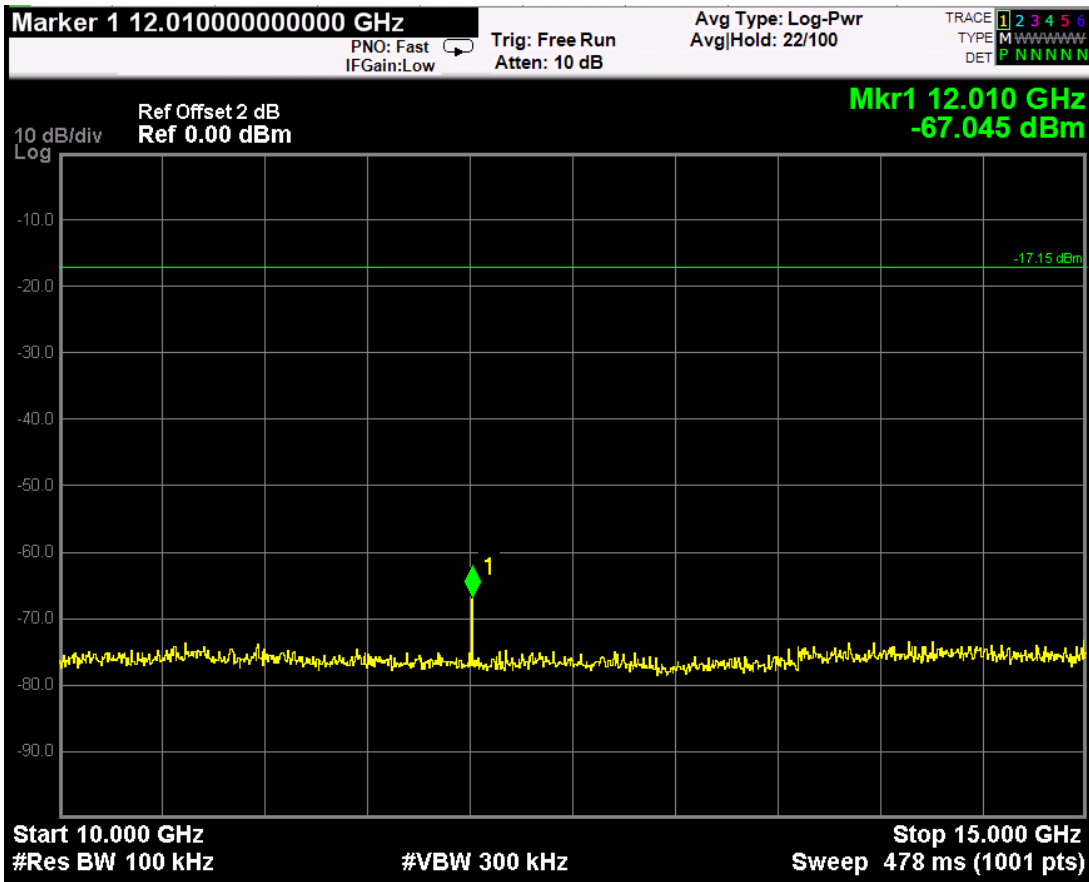
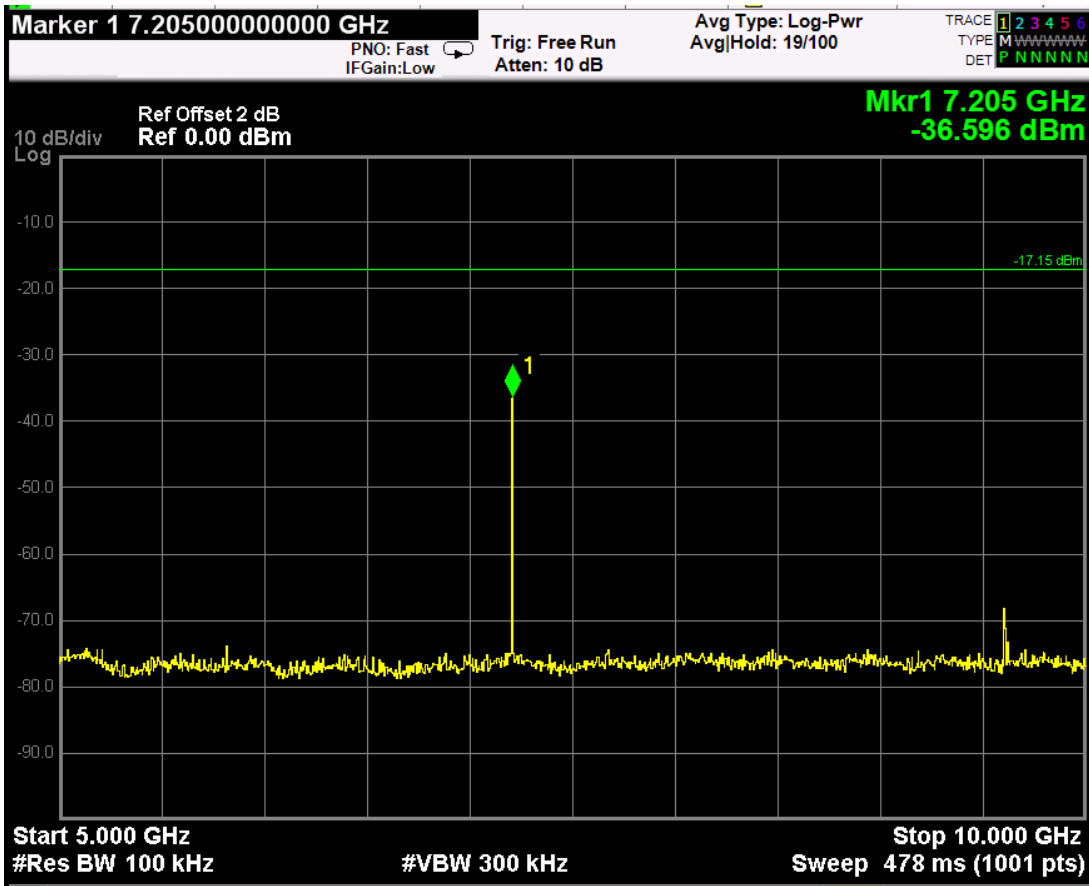
PASSED.

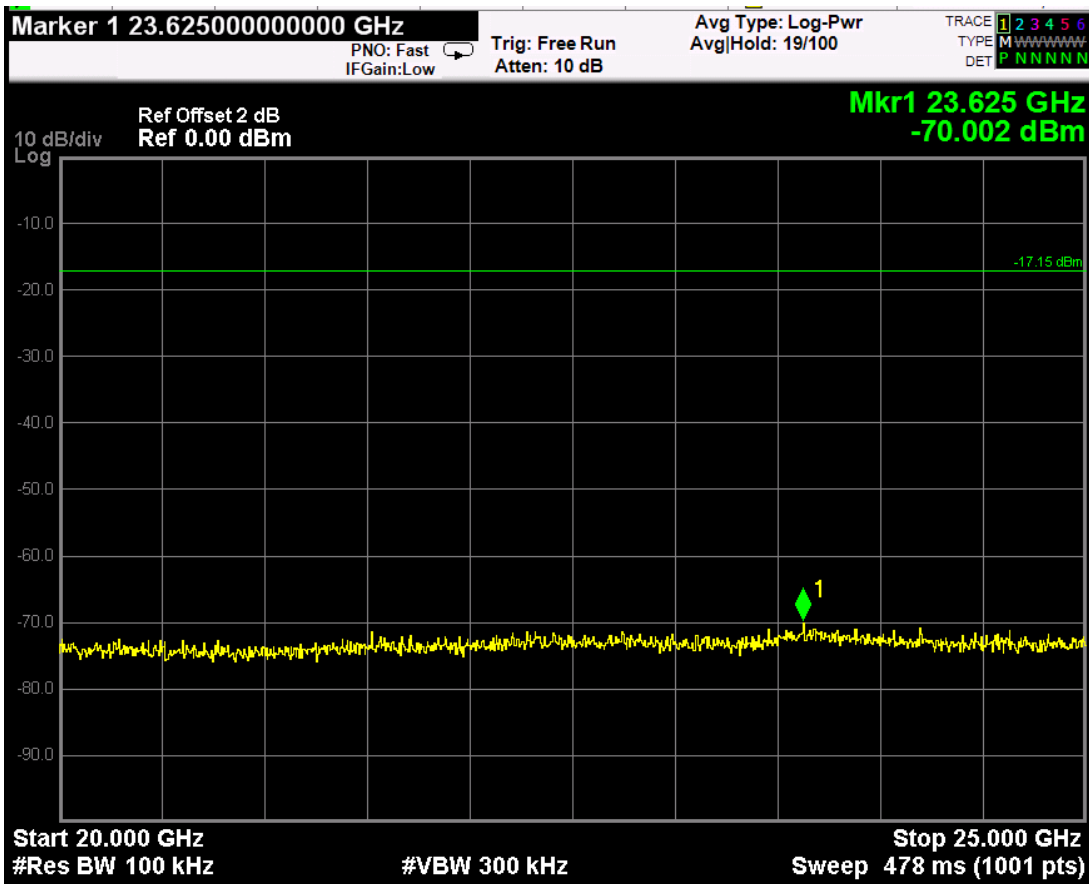
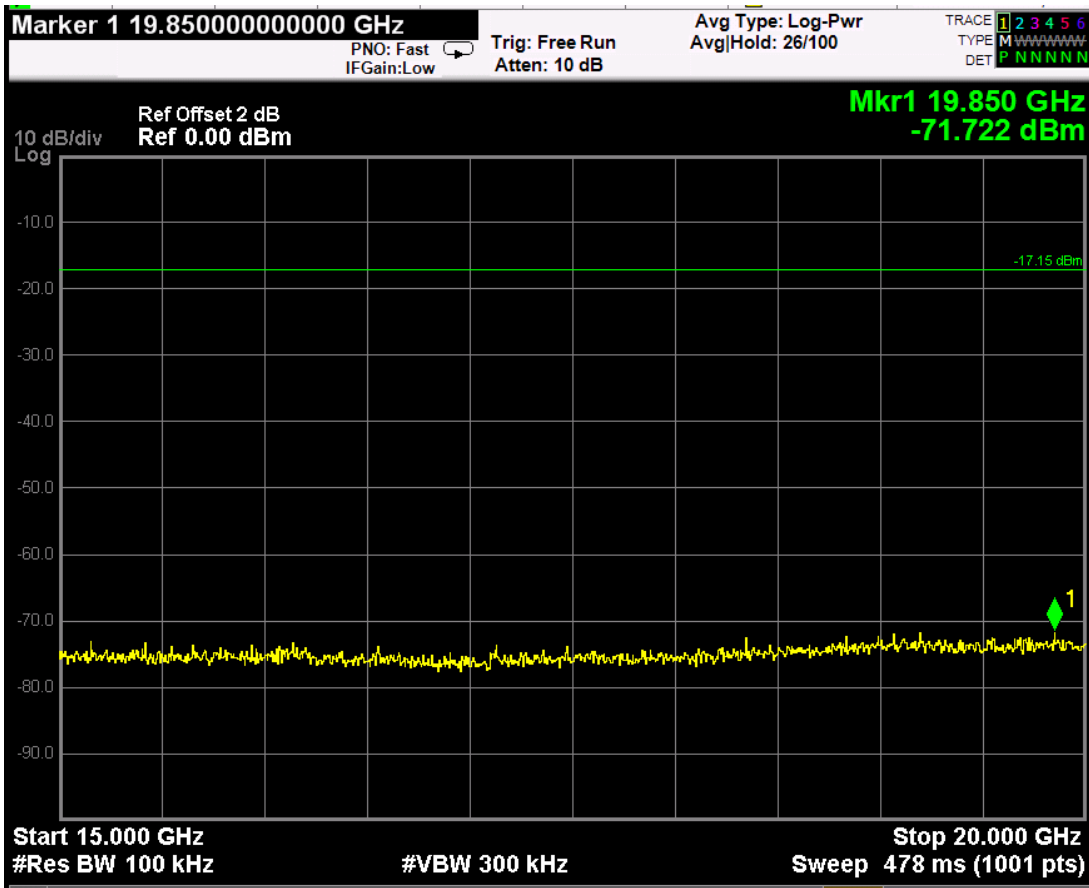
The test data was attached in the next pages.

(Test Date: Jul. 10, 2013 Temperature: 27°C Humidity: 49 %)

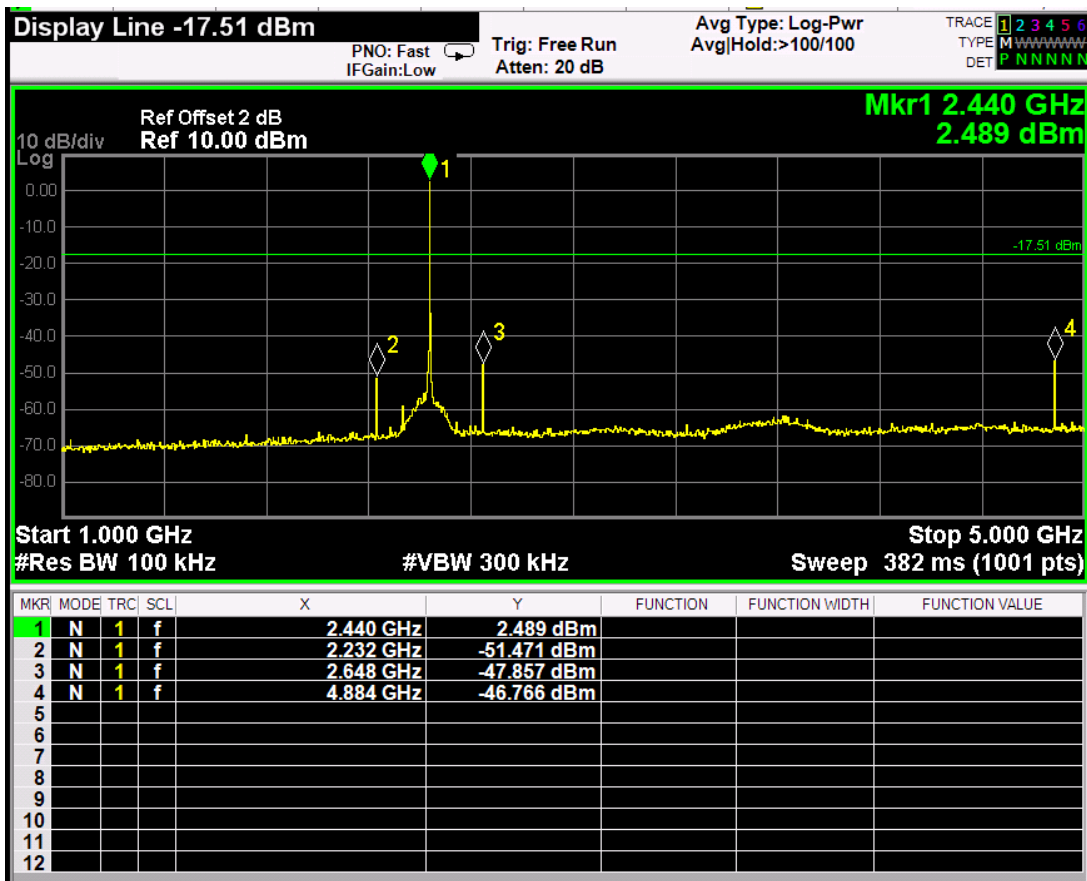
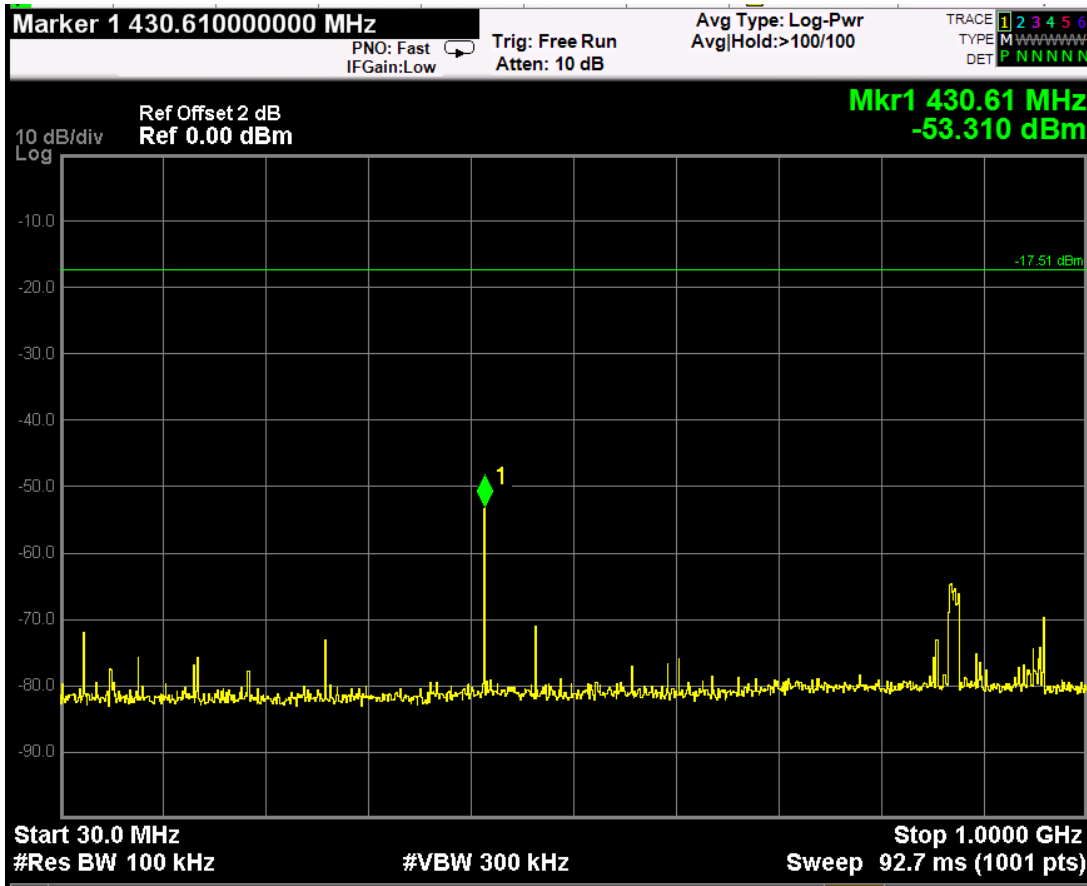
NON-EDR Ch 00 (2402 MHz)

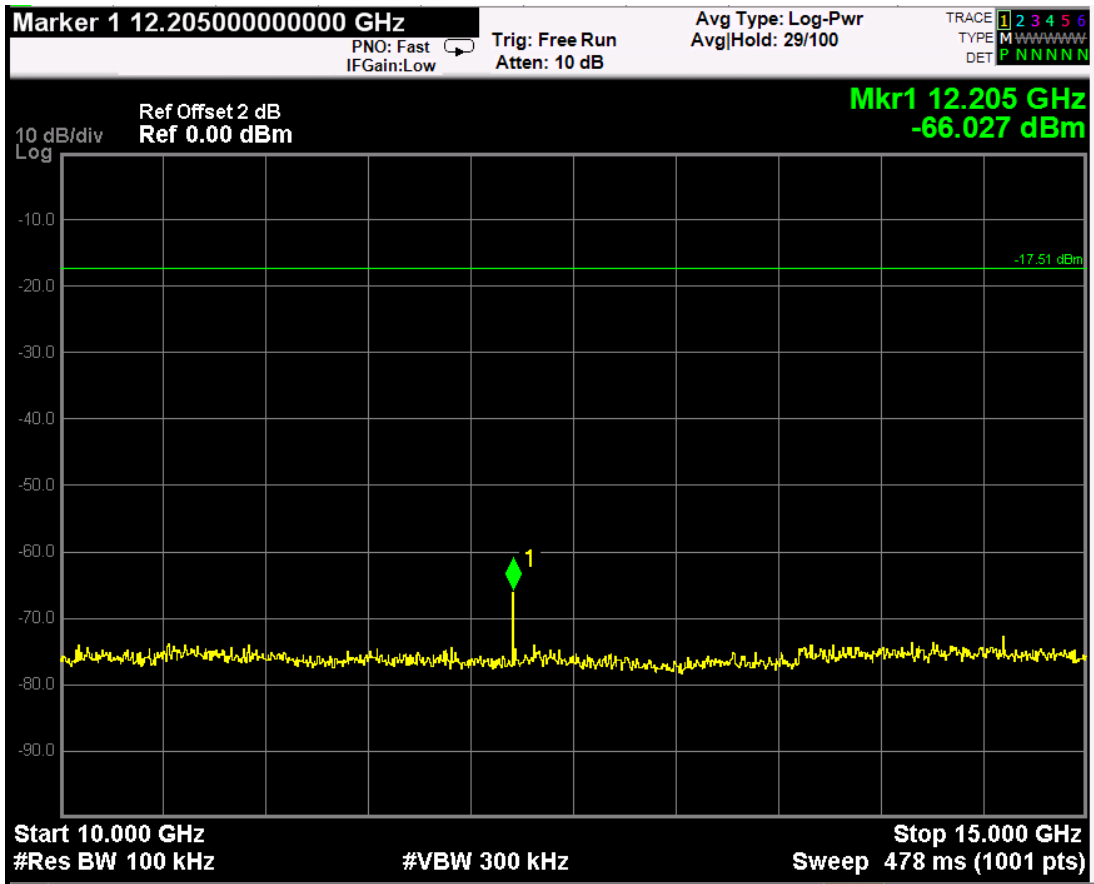
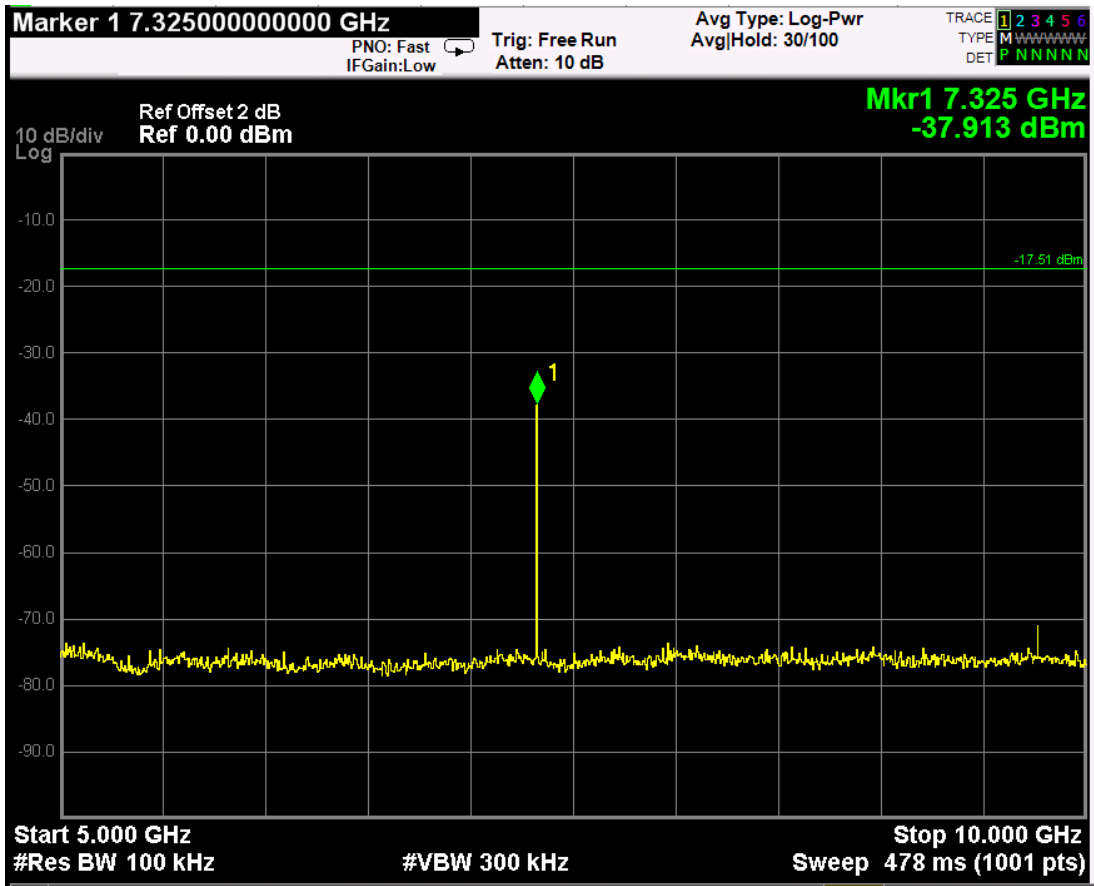


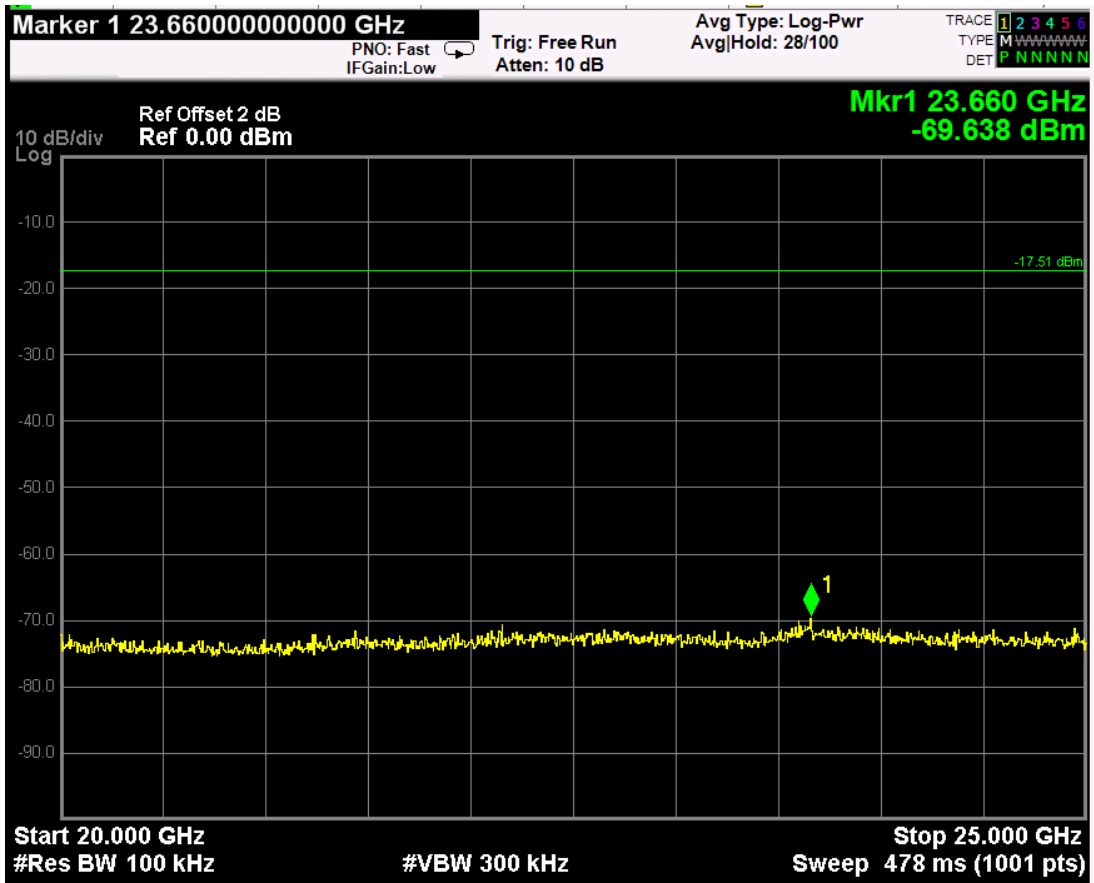
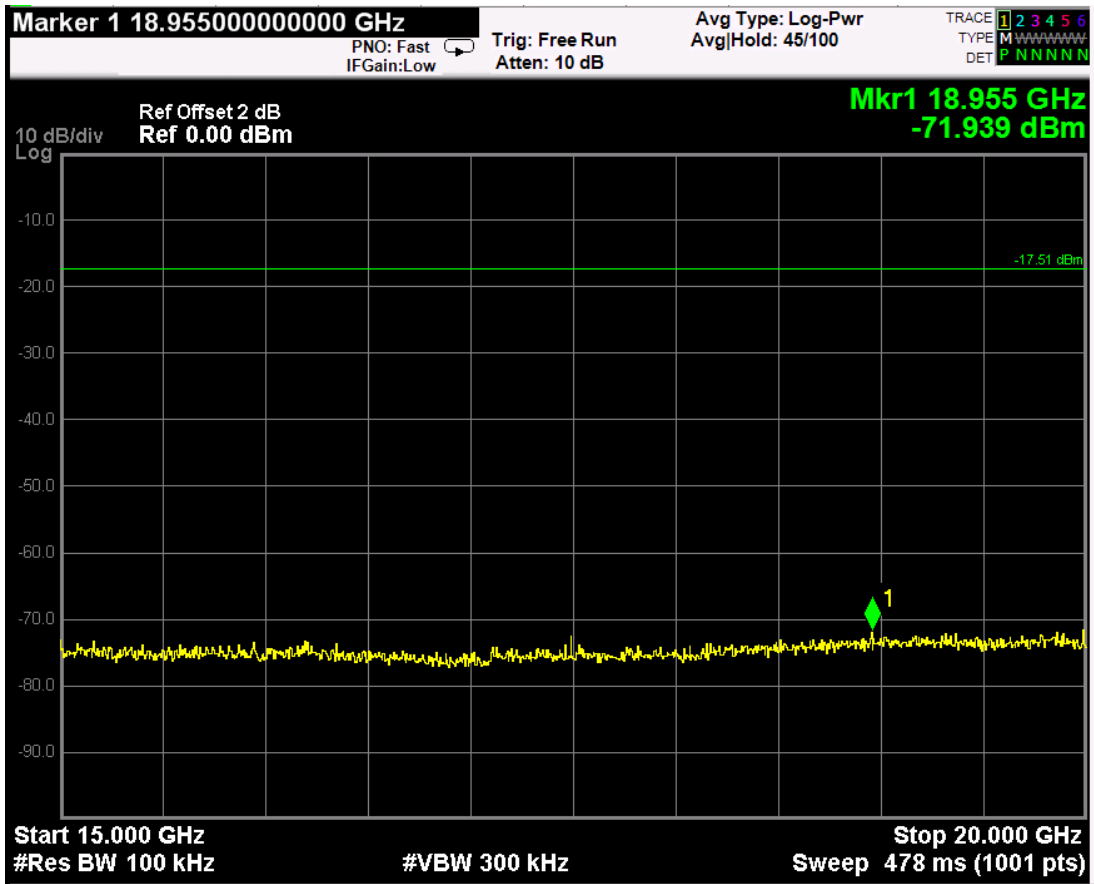




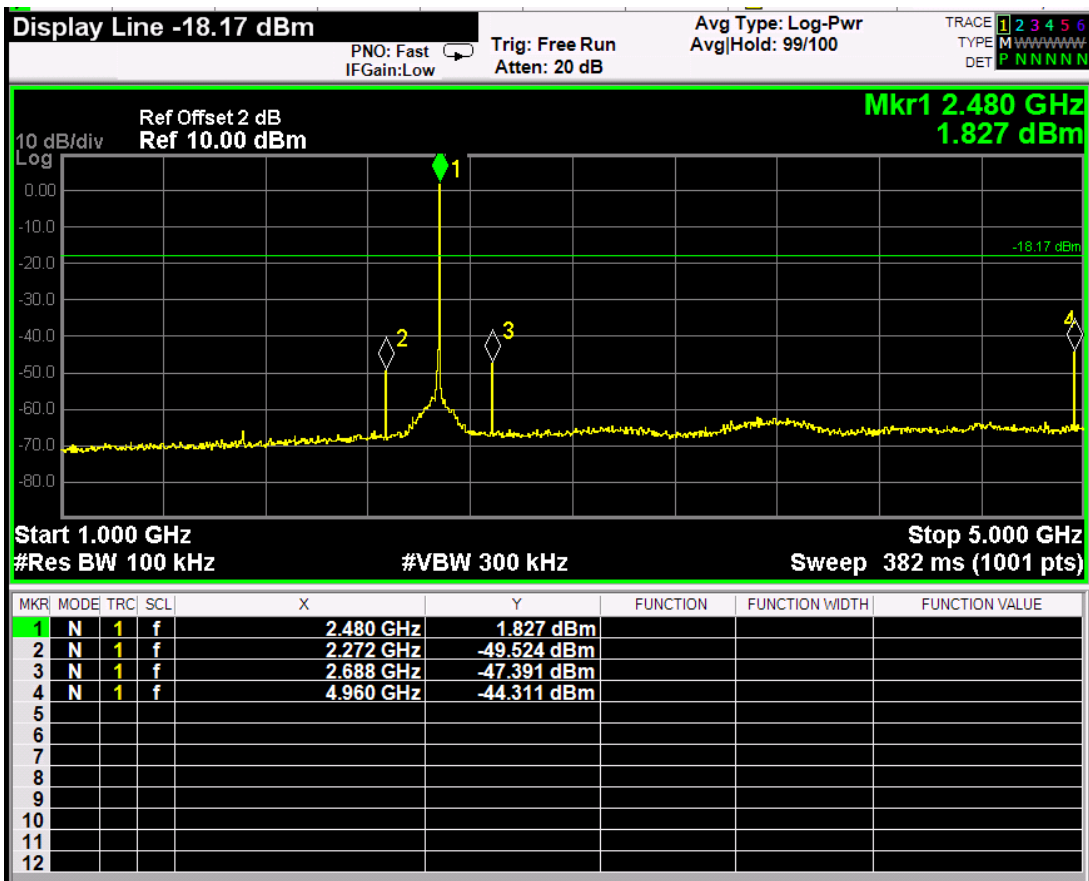
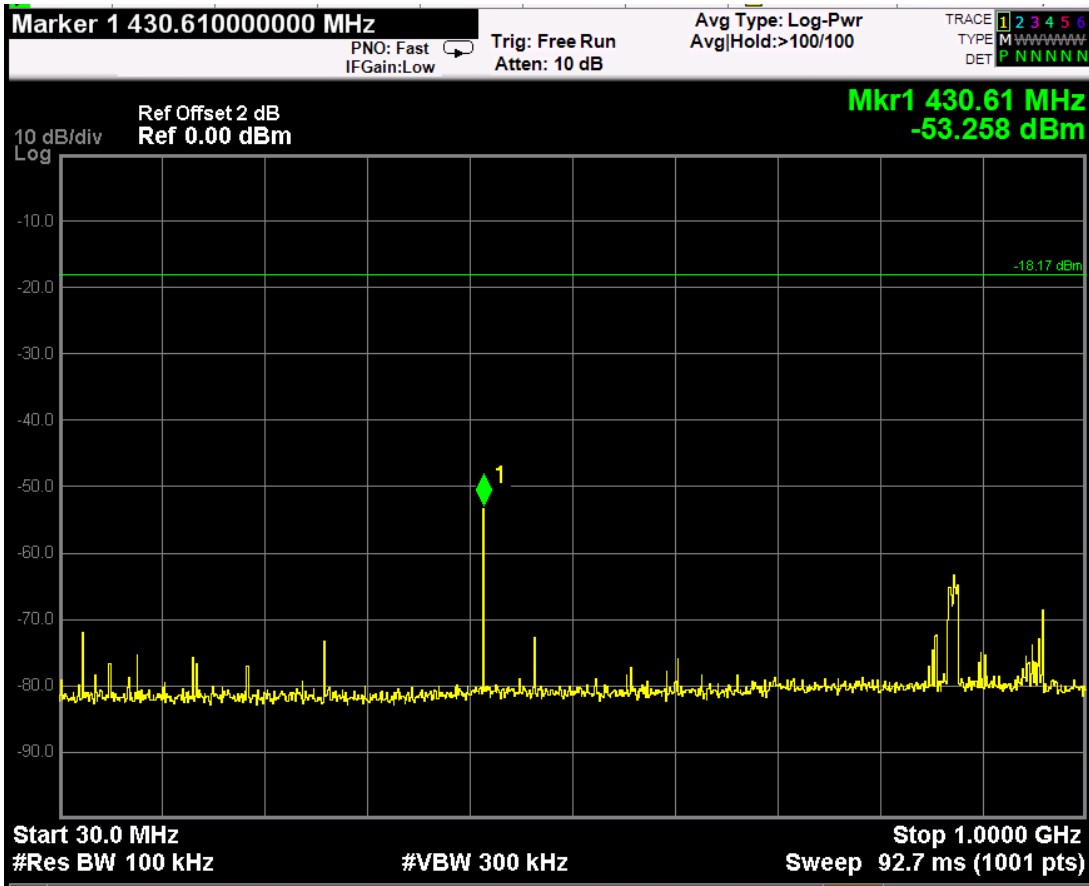
NON-EDR Ch 39 (2441 MHz)

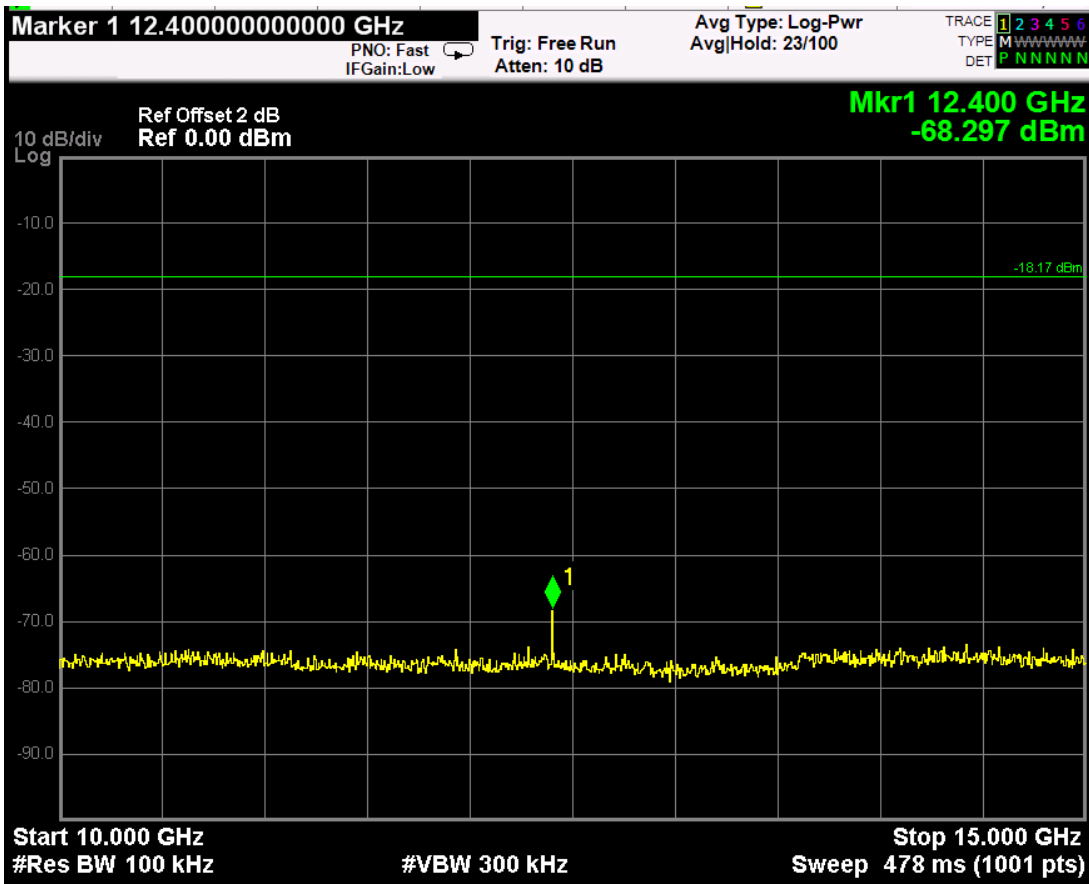
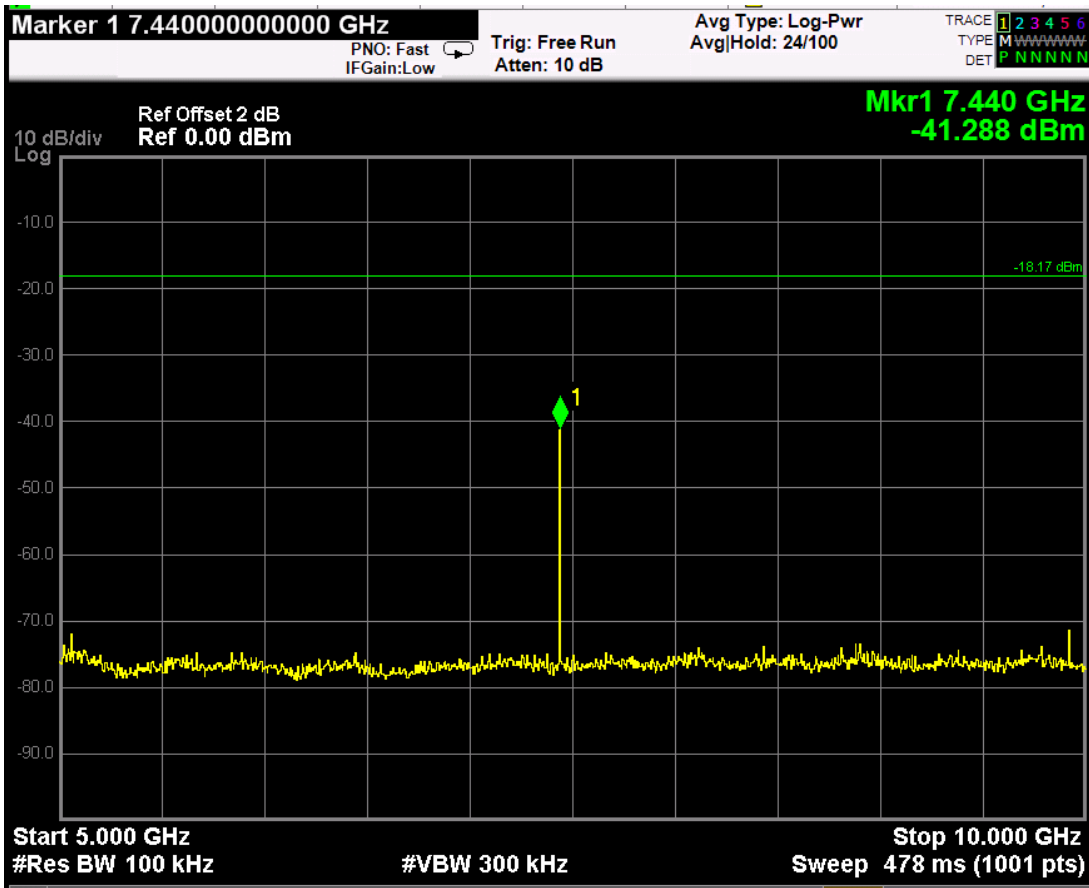


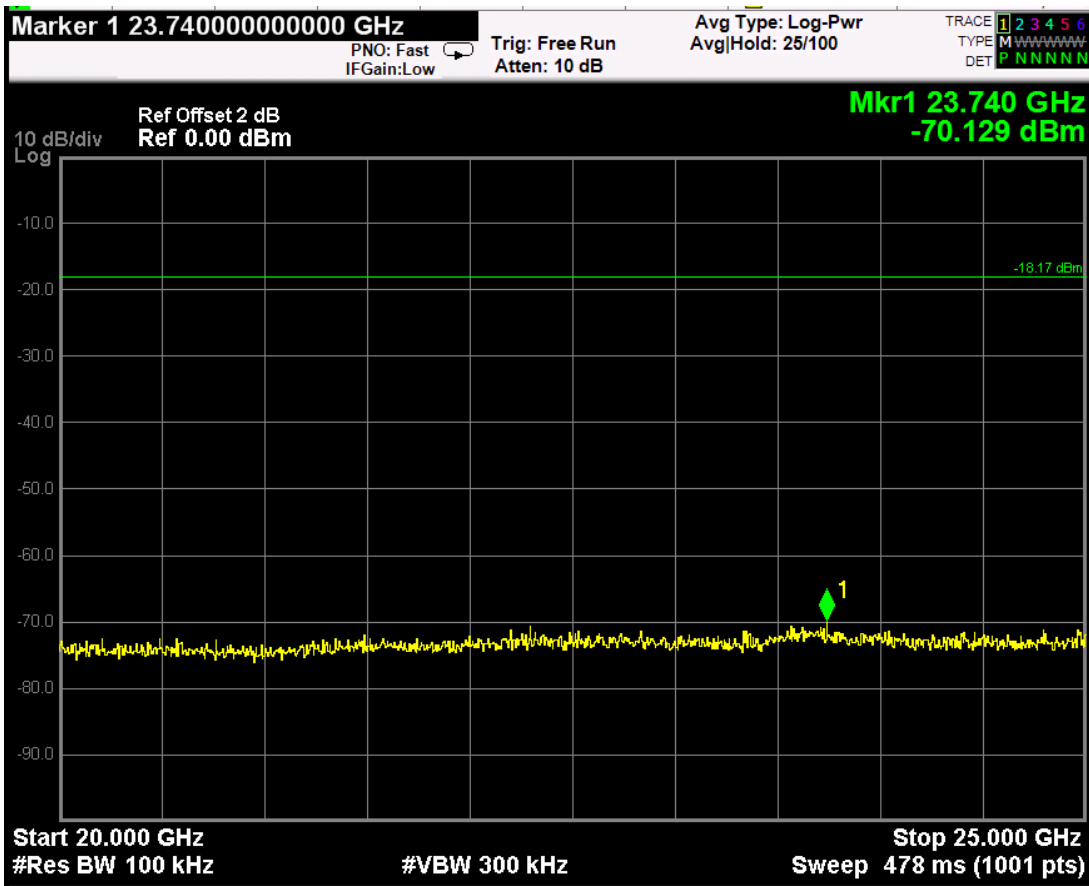
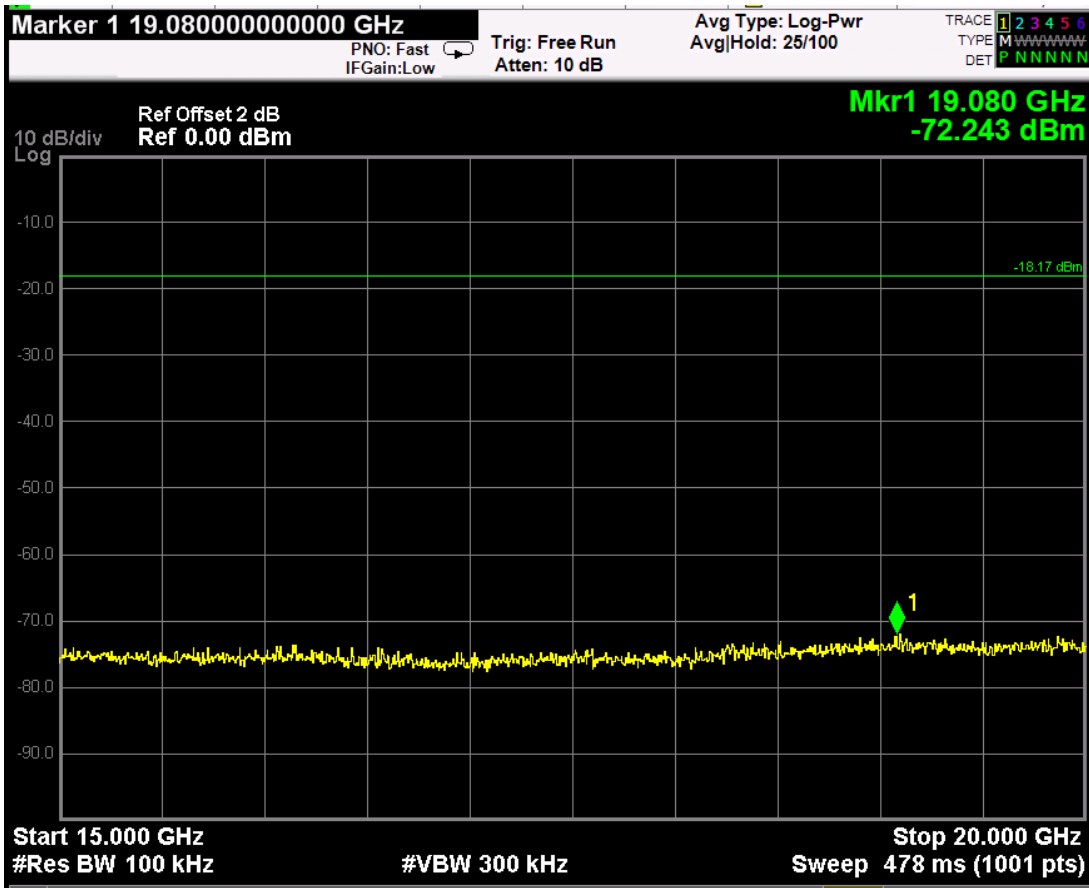


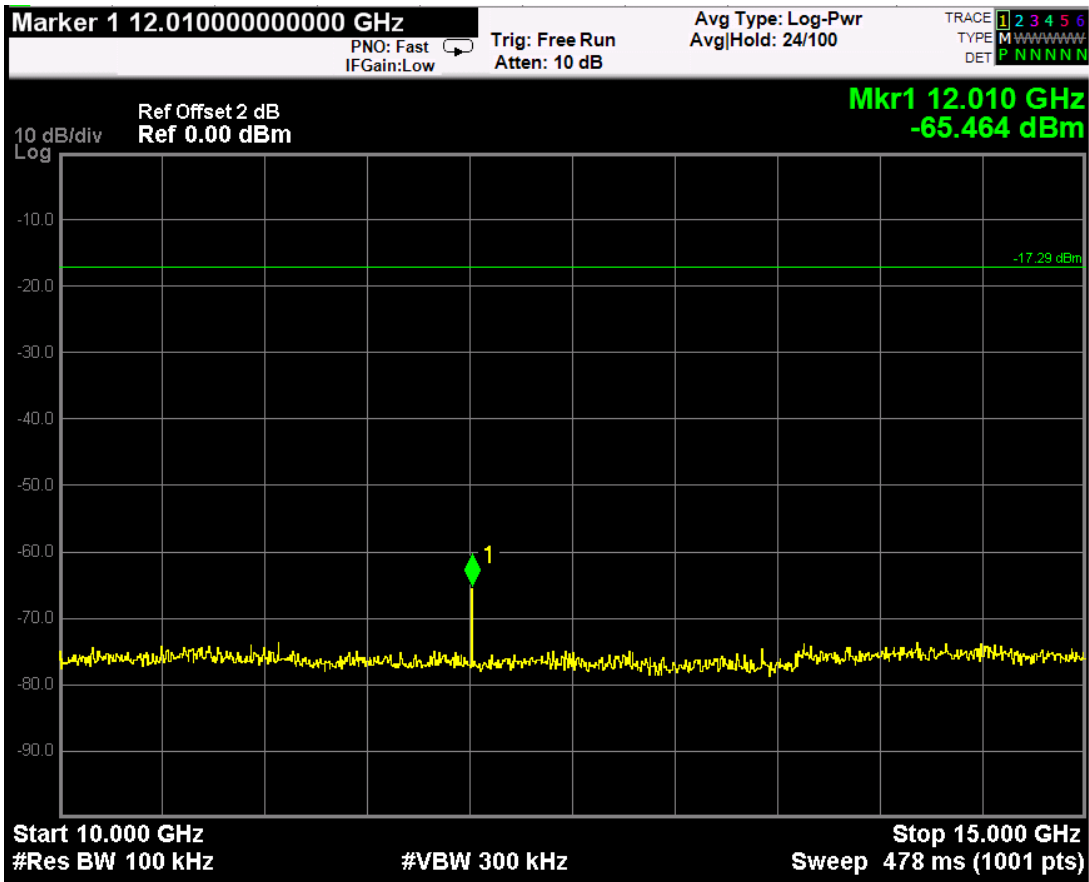
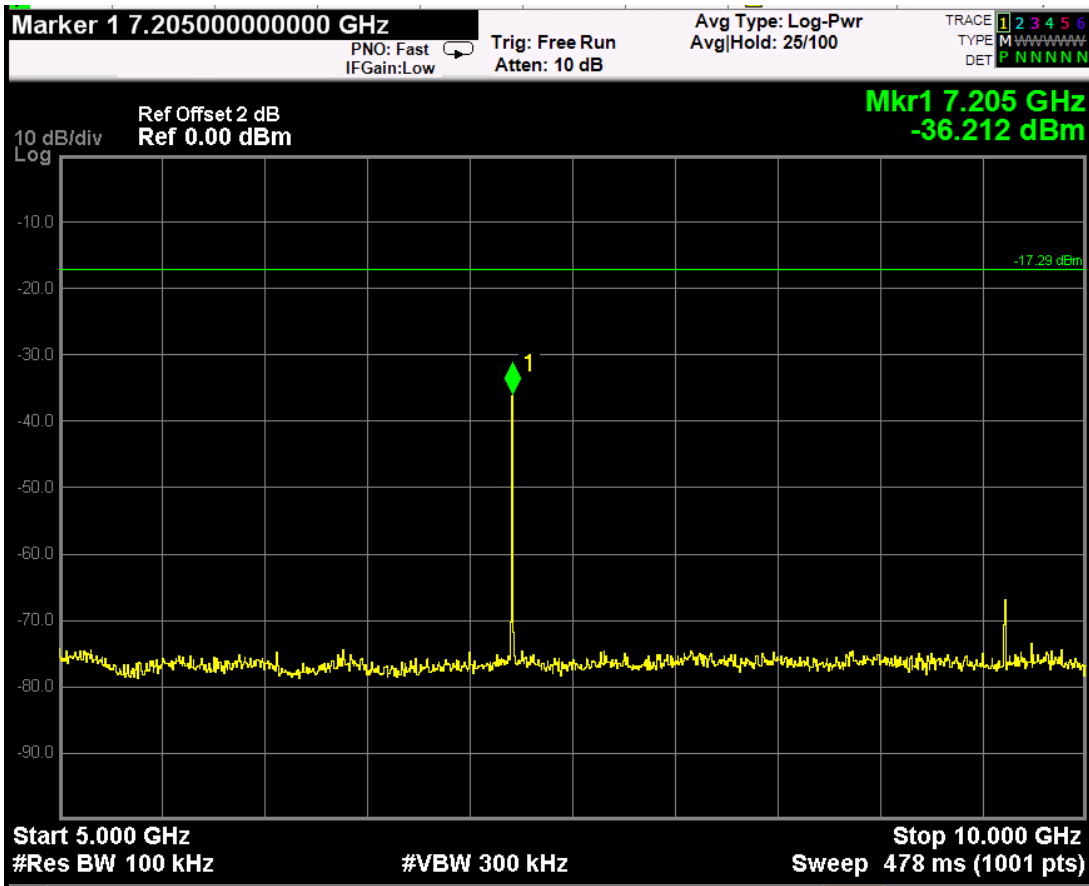


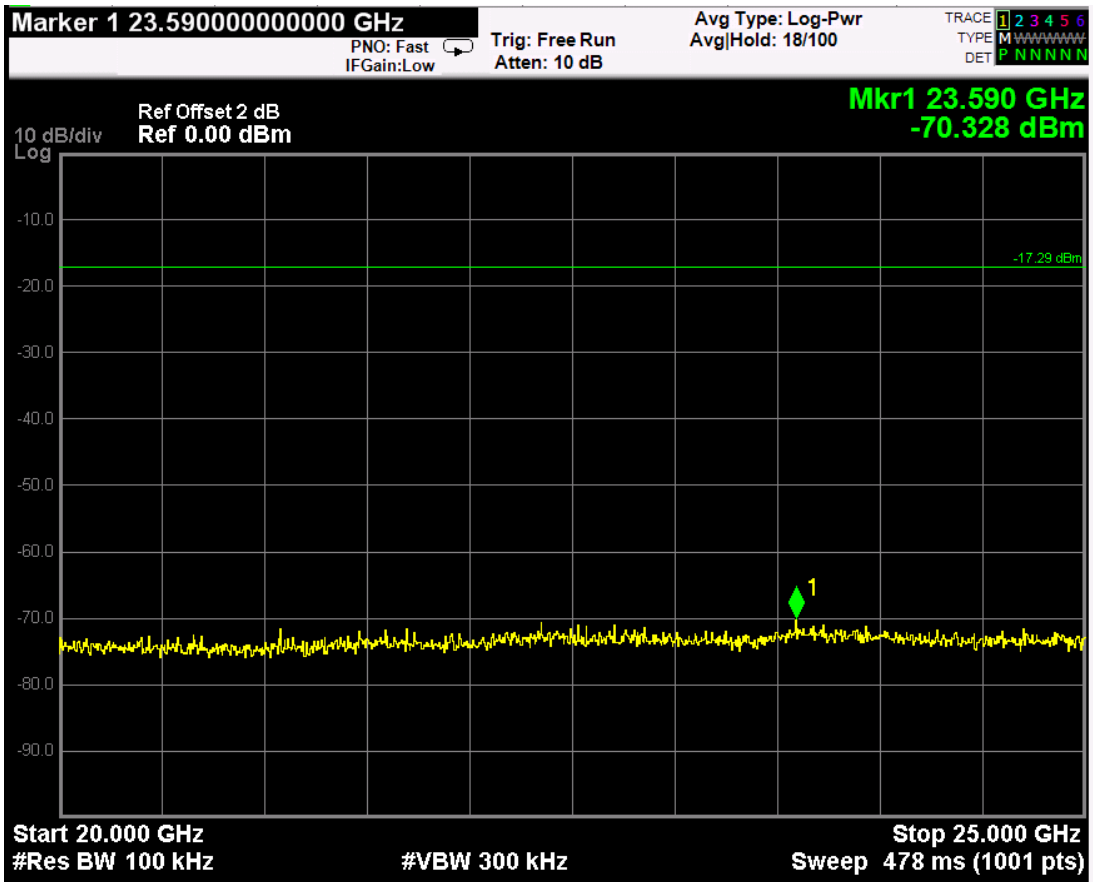
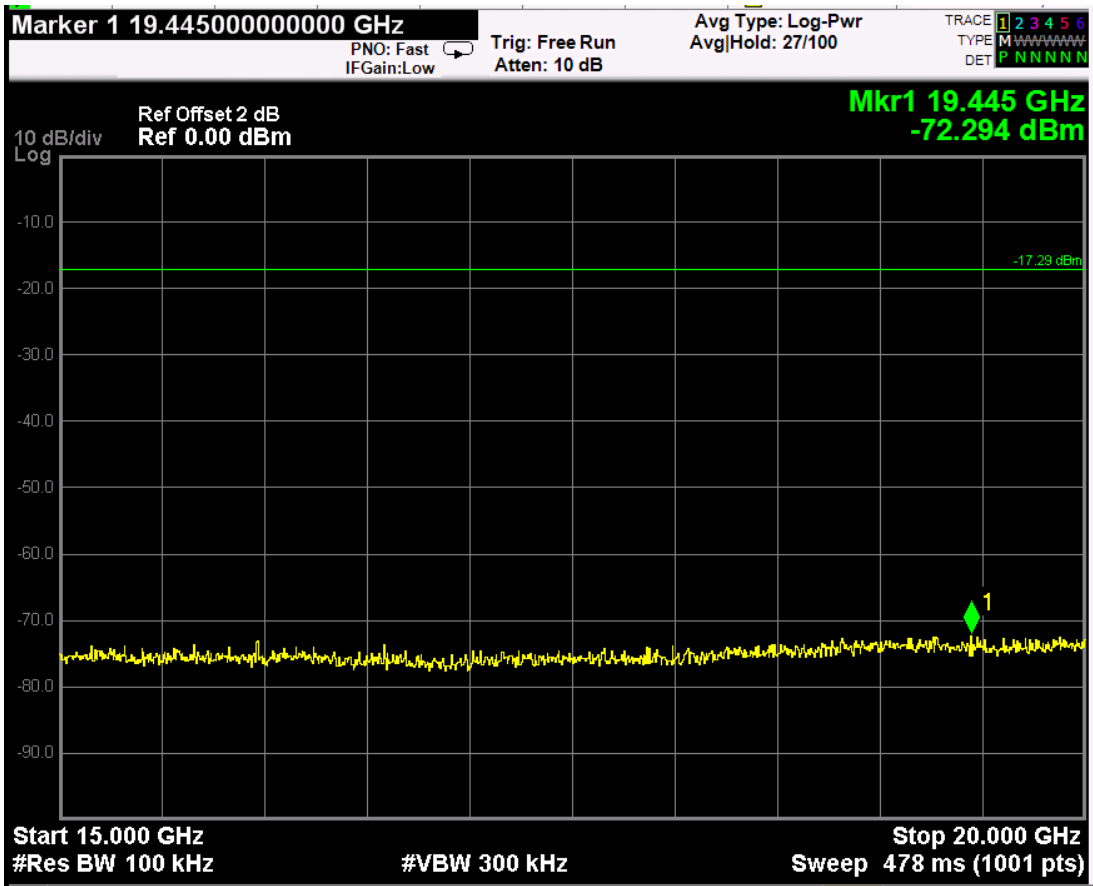
NON-EDR Ch 78 (2480 MHz)



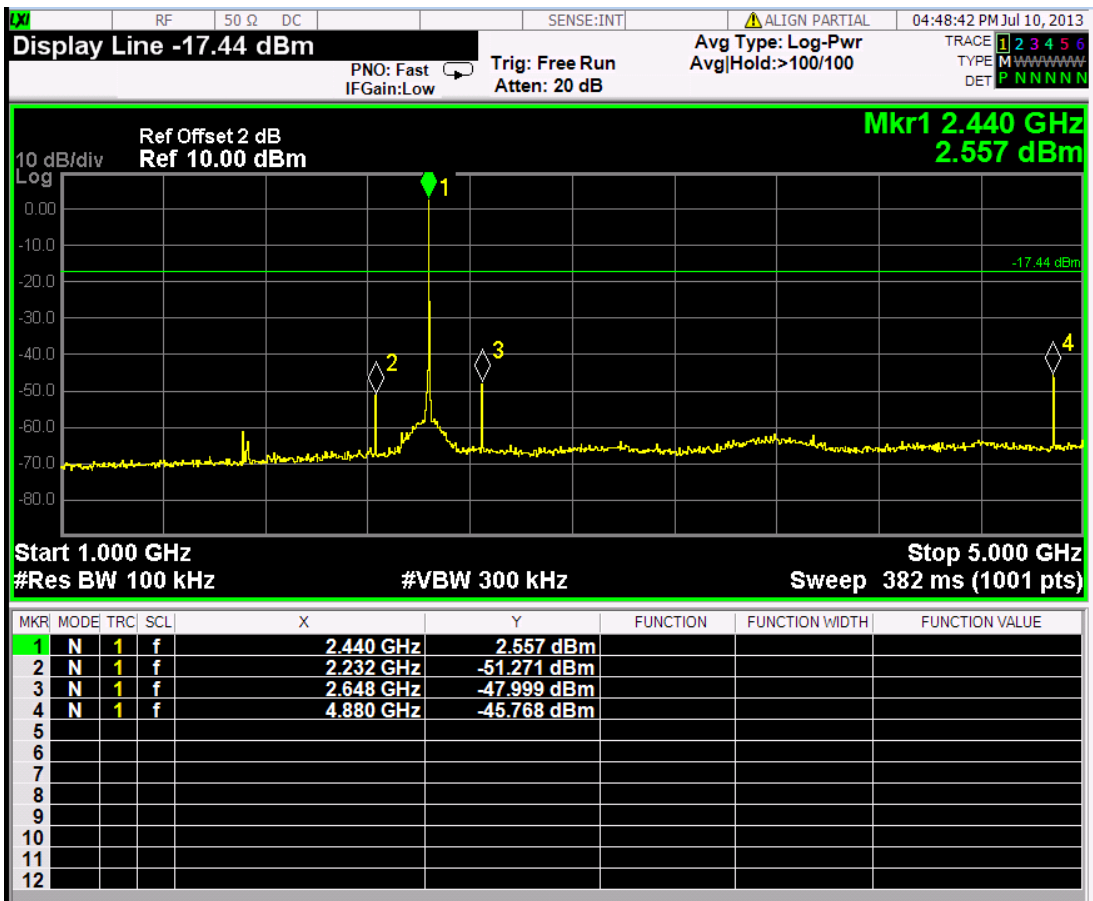
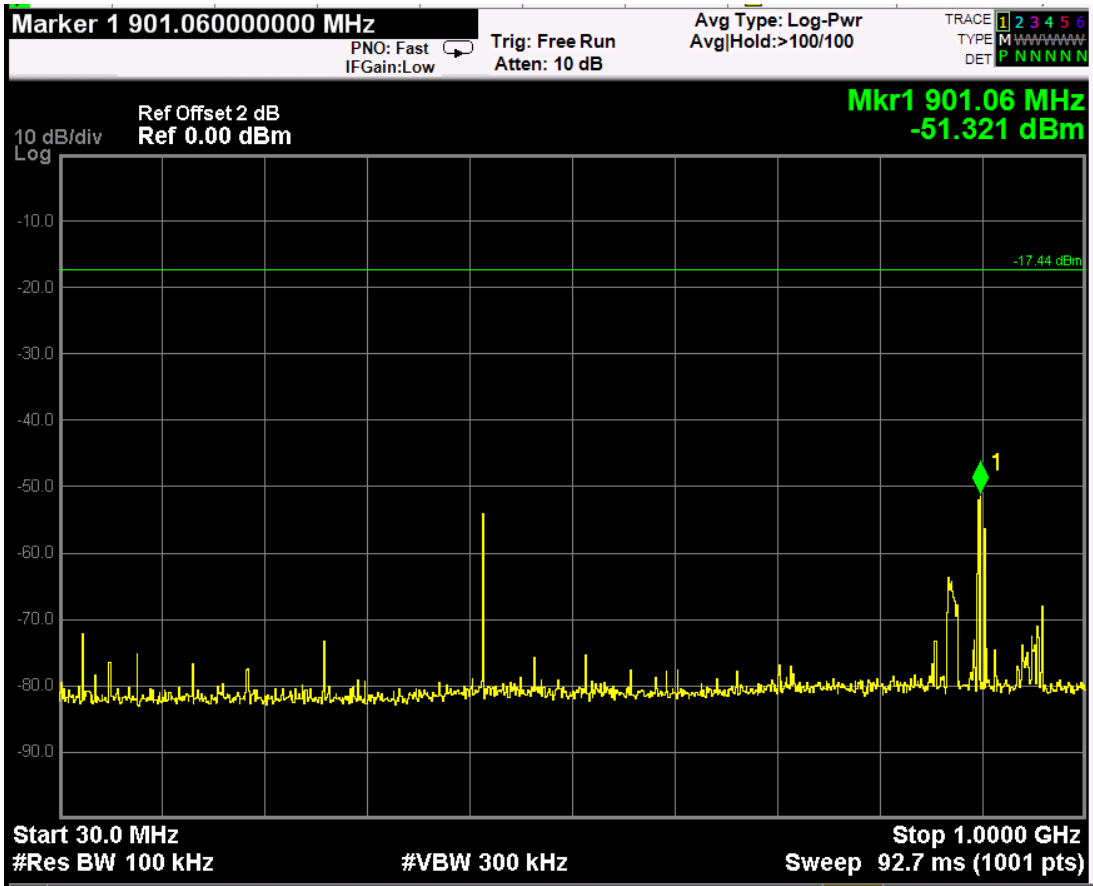


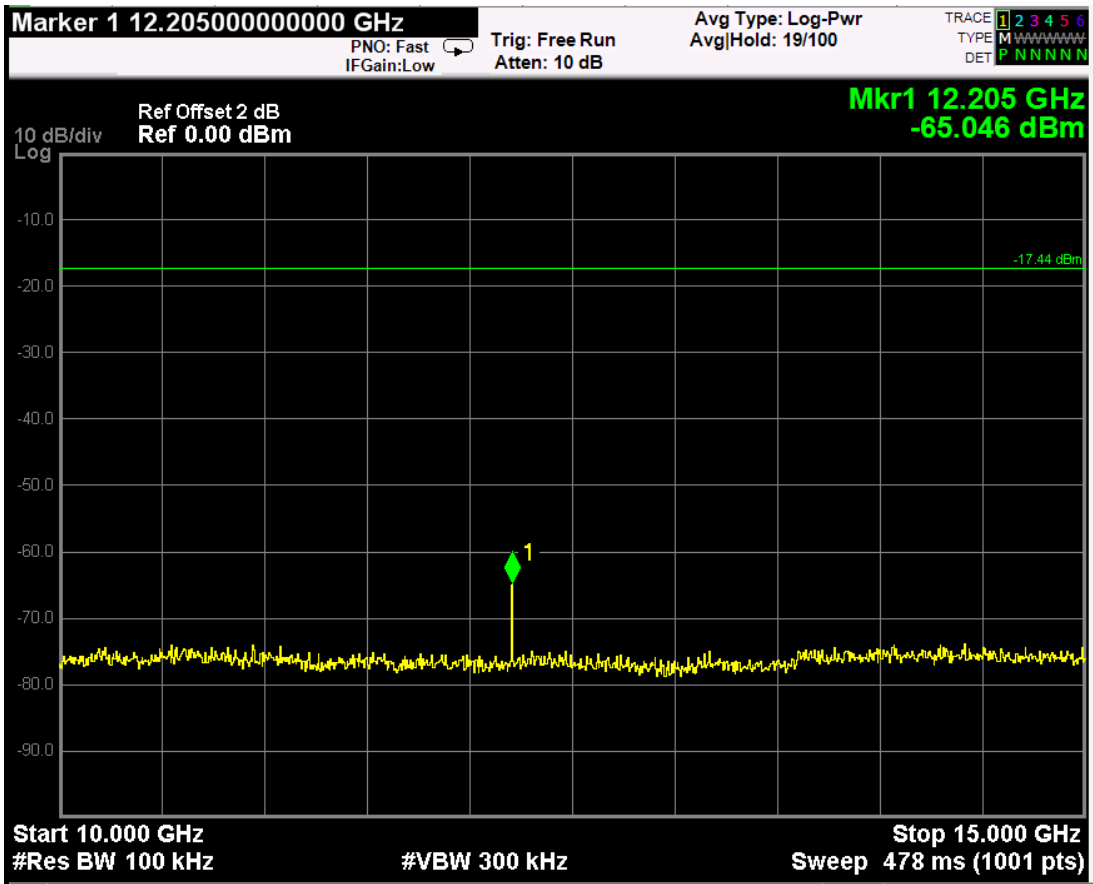
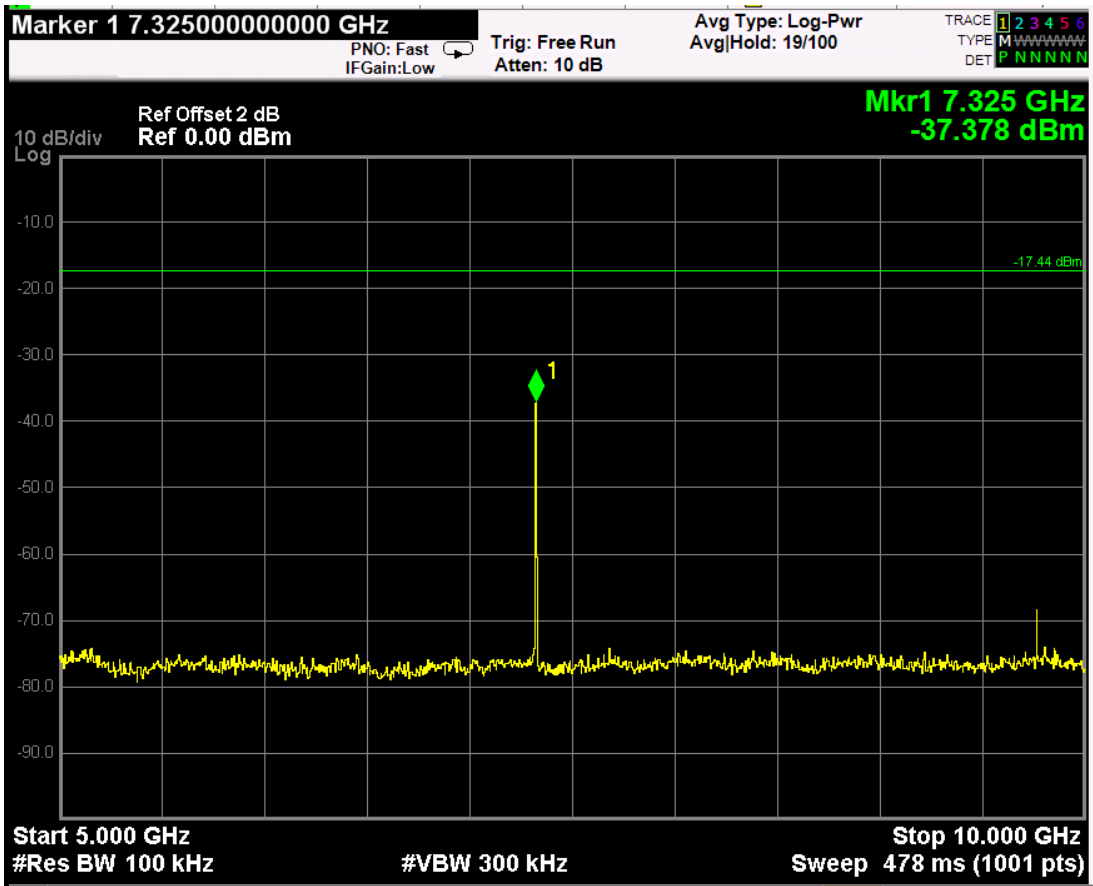


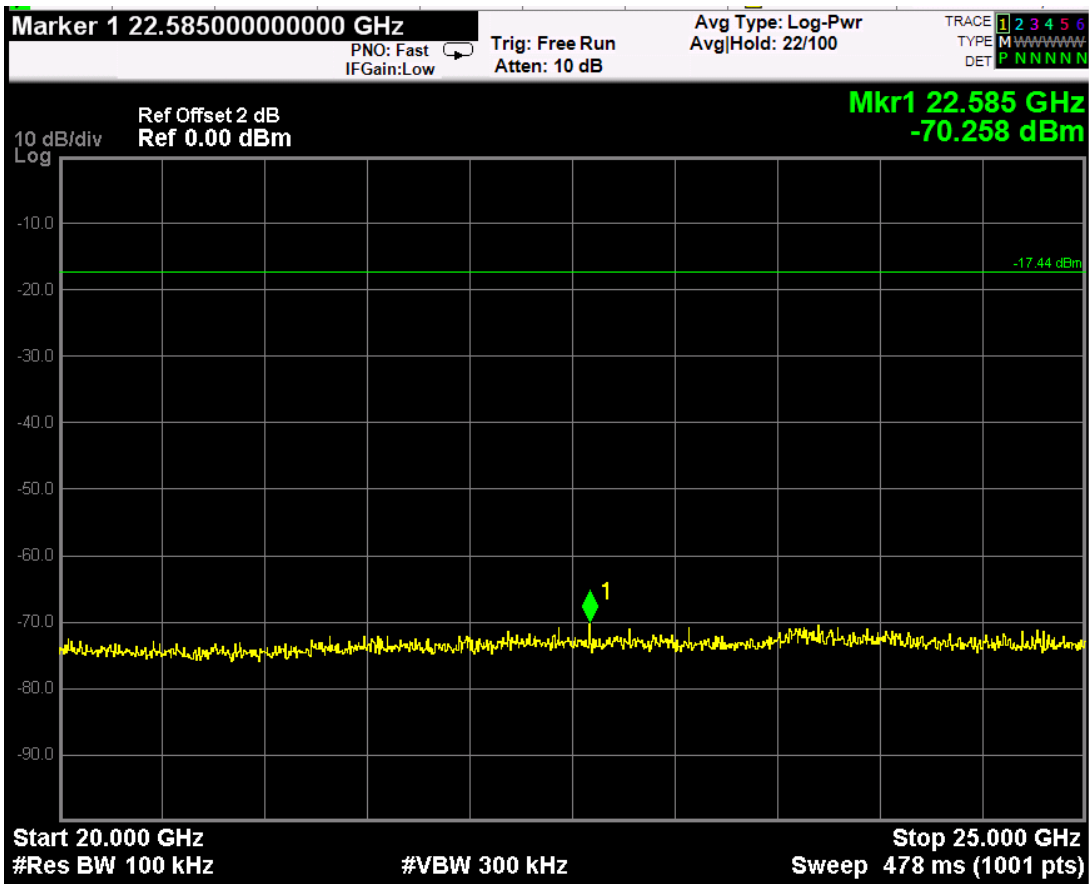
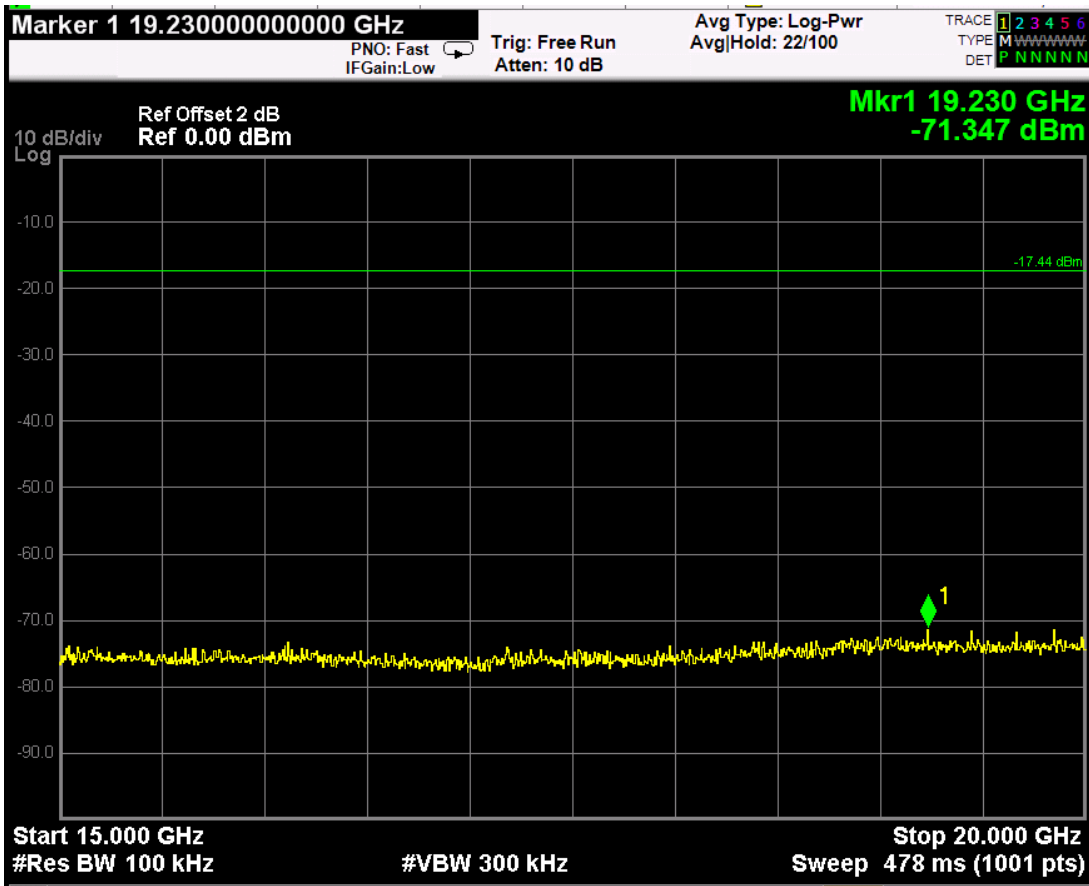




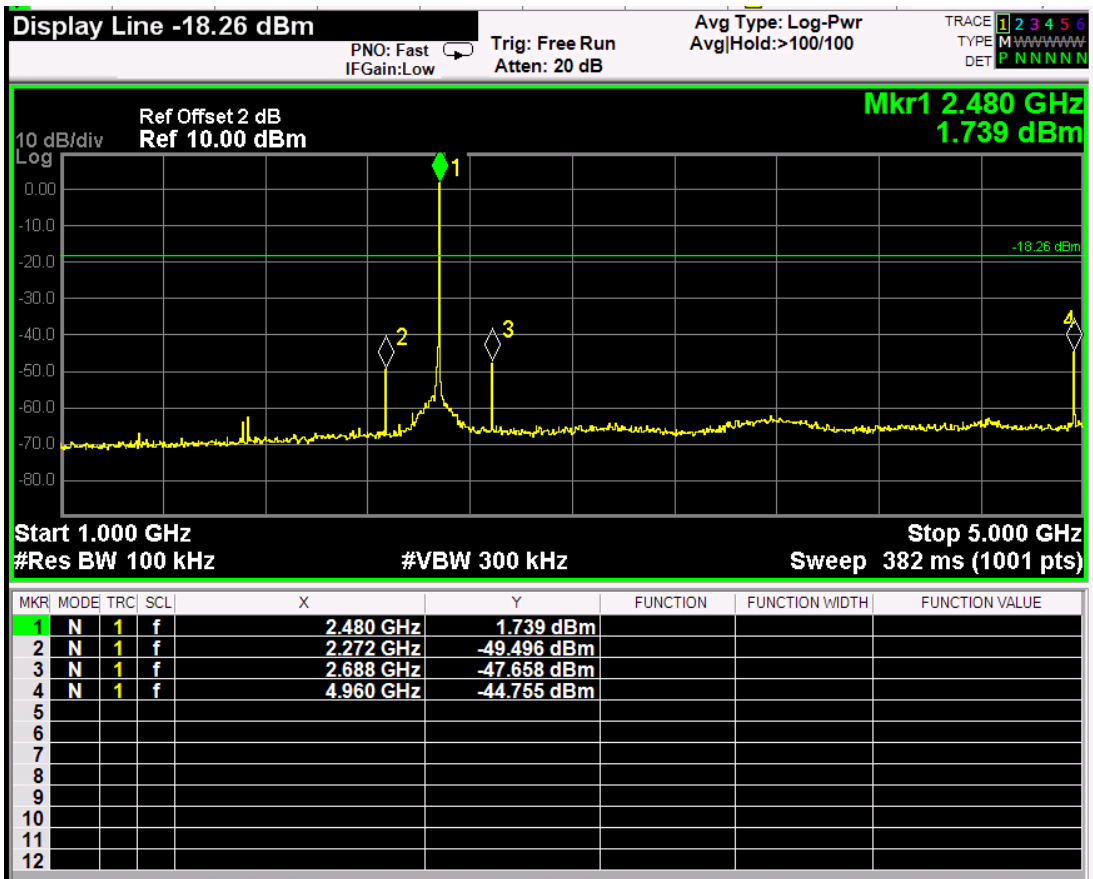
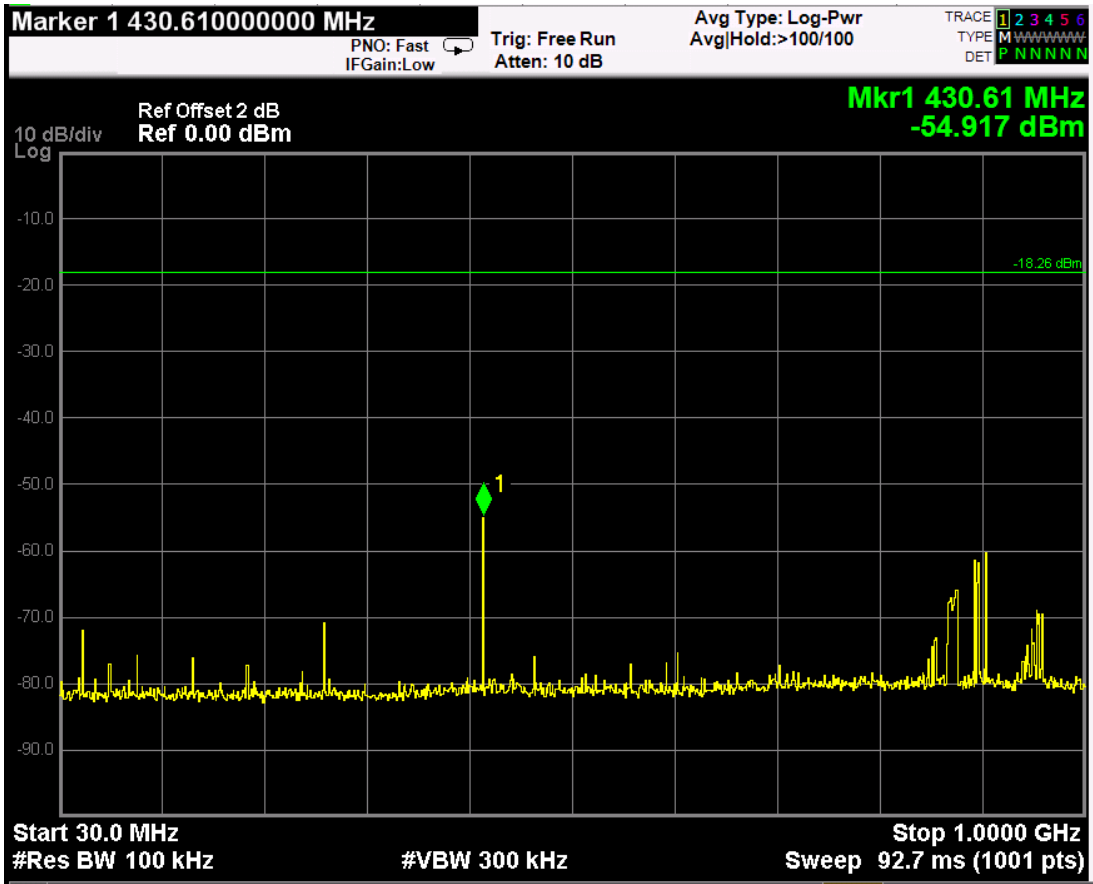
EDR Ch 39 (2441 MHz)

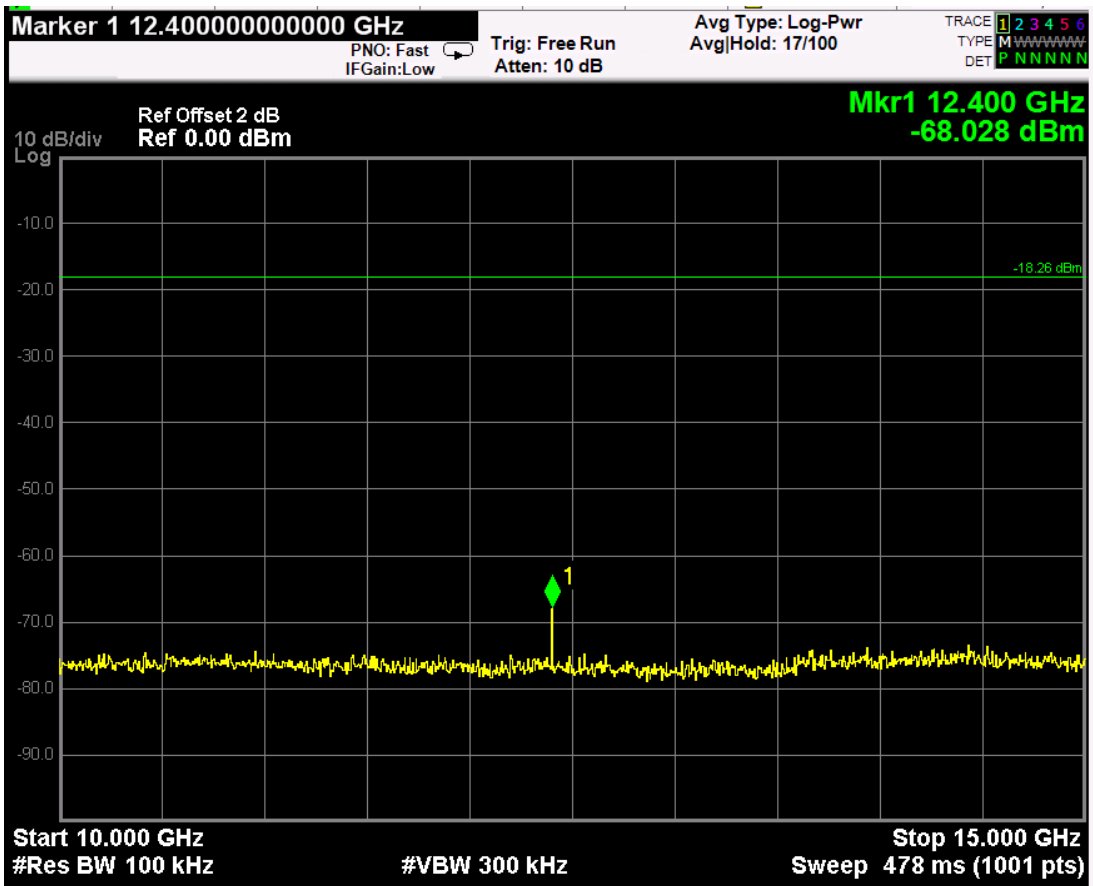
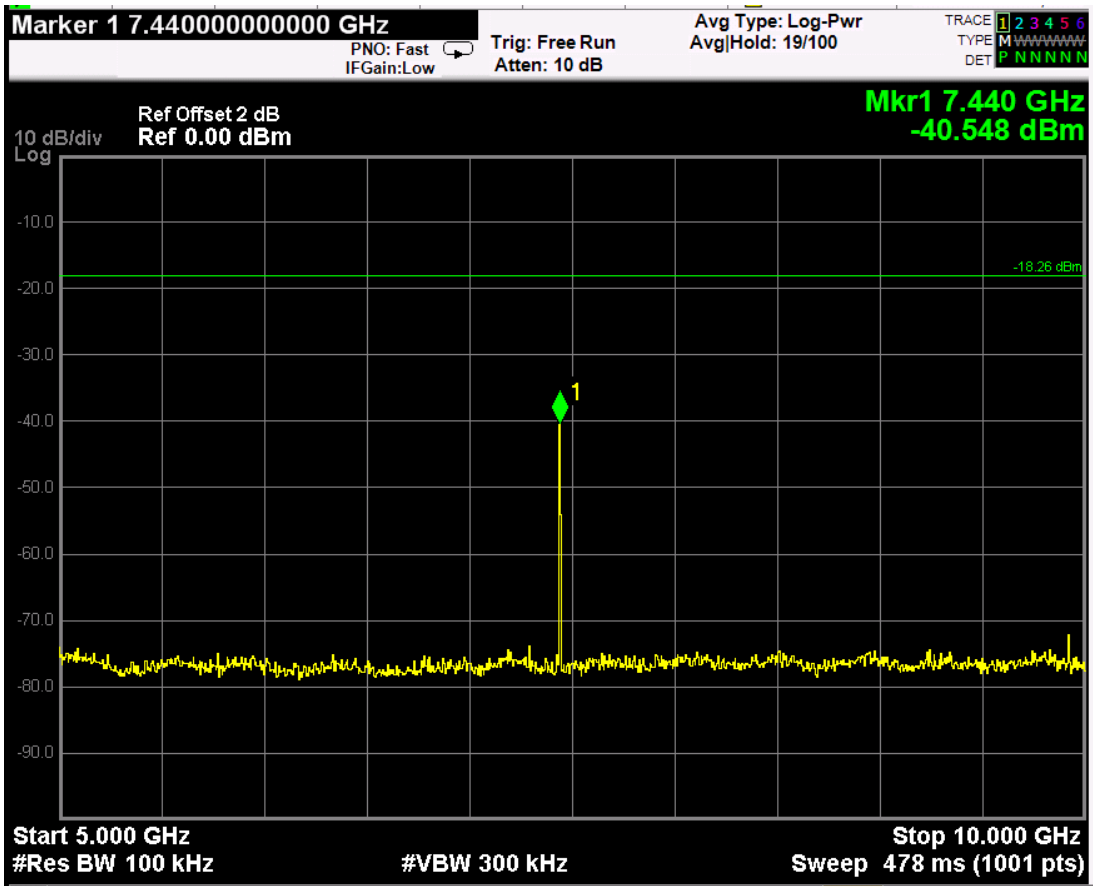


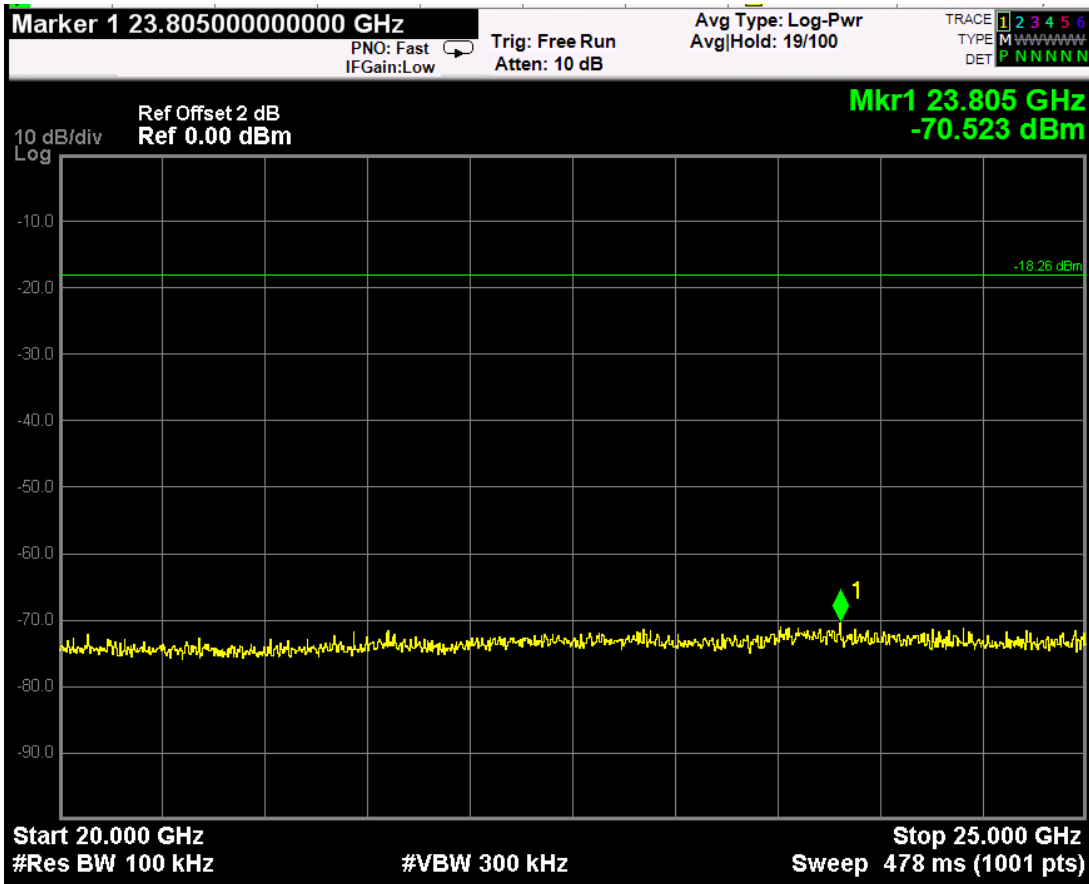
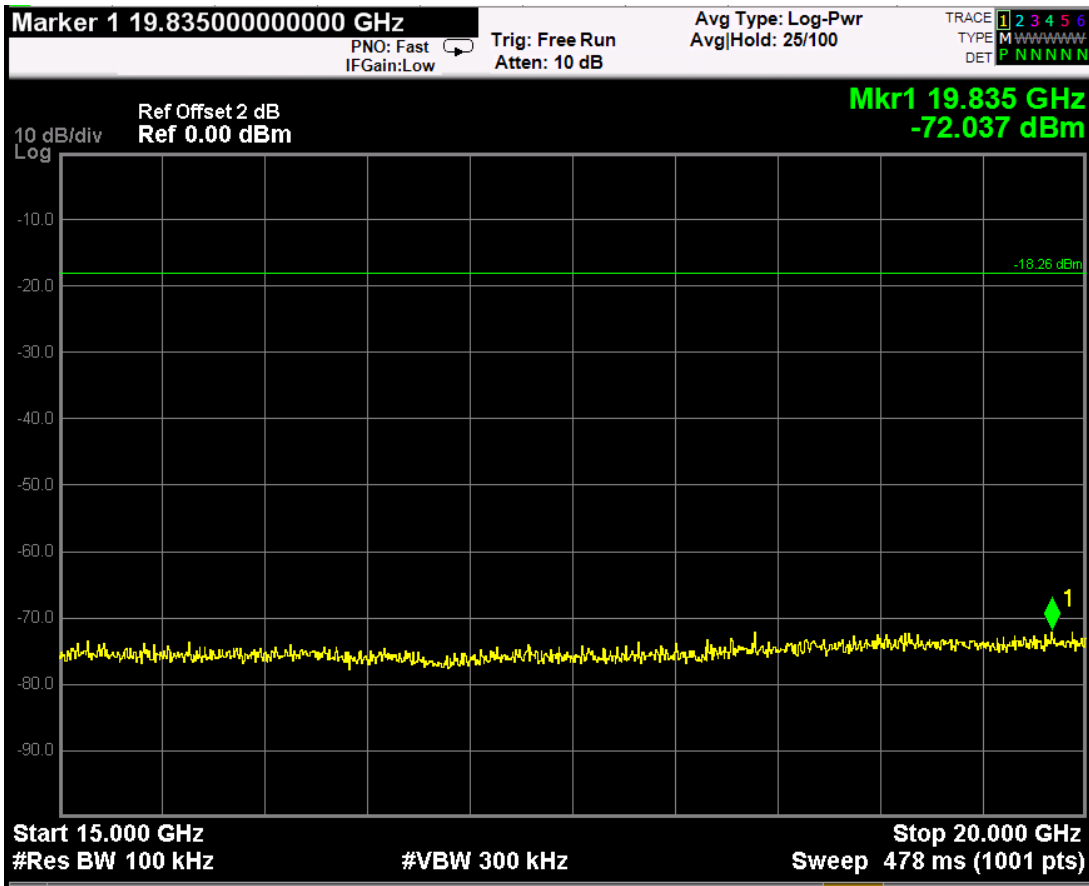




EDR Ch 78 (2480 MHz)







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.

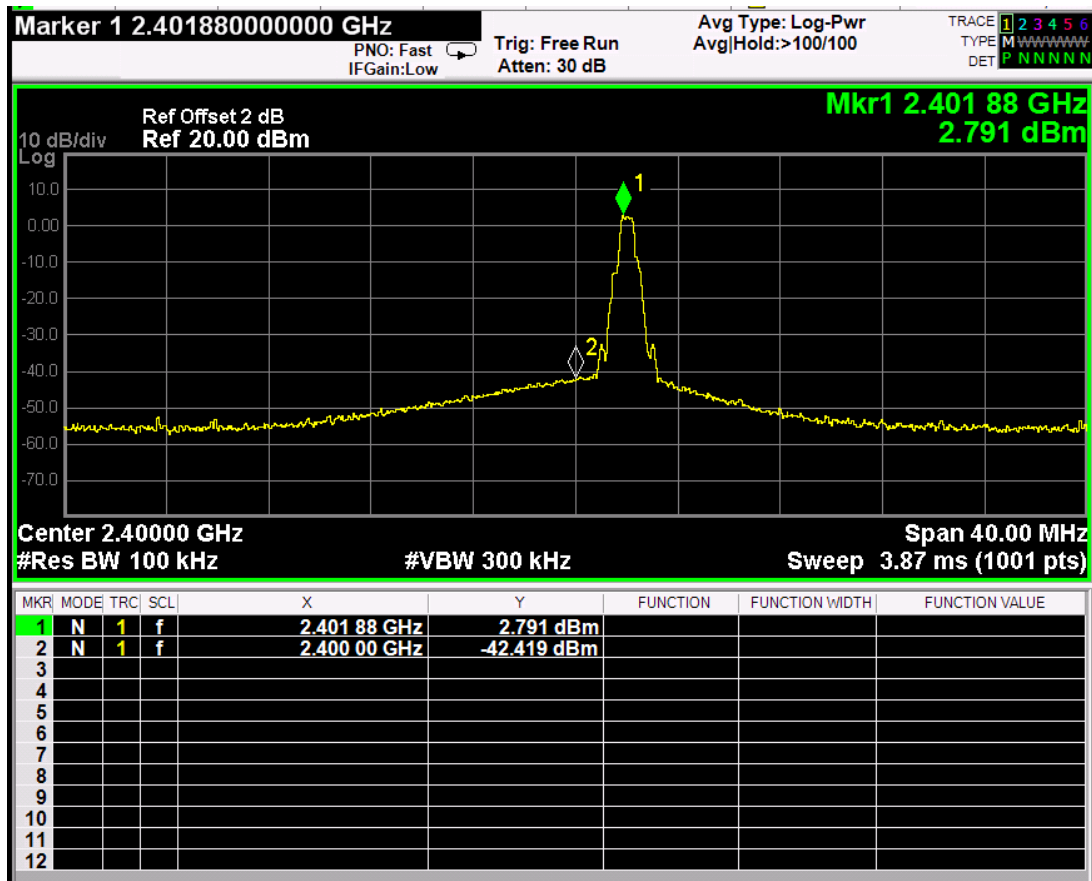
7.6 Test Results

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

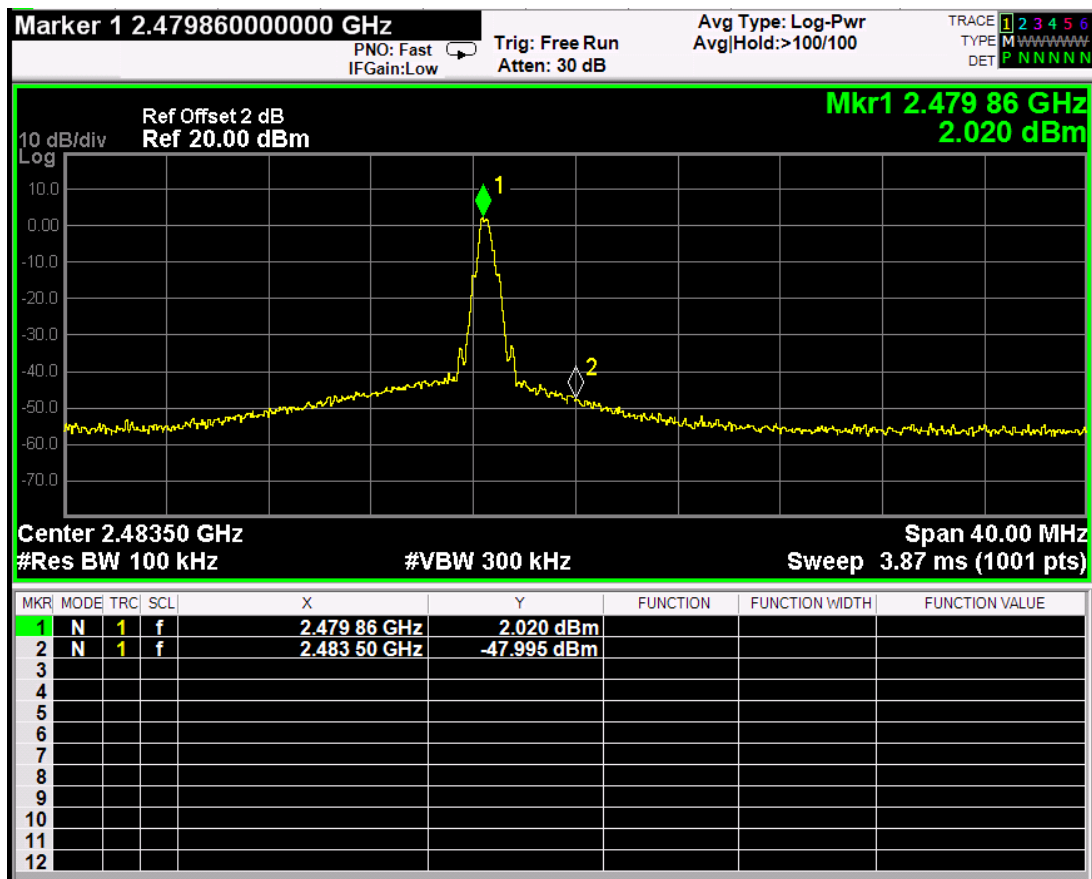
(Test Date: Jul. 10, 2013 Temperature: 27°C Humidity: 49 %)

Location	Channel	Frequency	Delta Marker (worst)	Data Page	Result
Below Band Edge	00	2402 MHz	43.883 dB	P50-51	More than 20 dB below the highest level of the desired power
Upper Band Edge	78	2480 MHz	45.815 dB	P52-53	

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



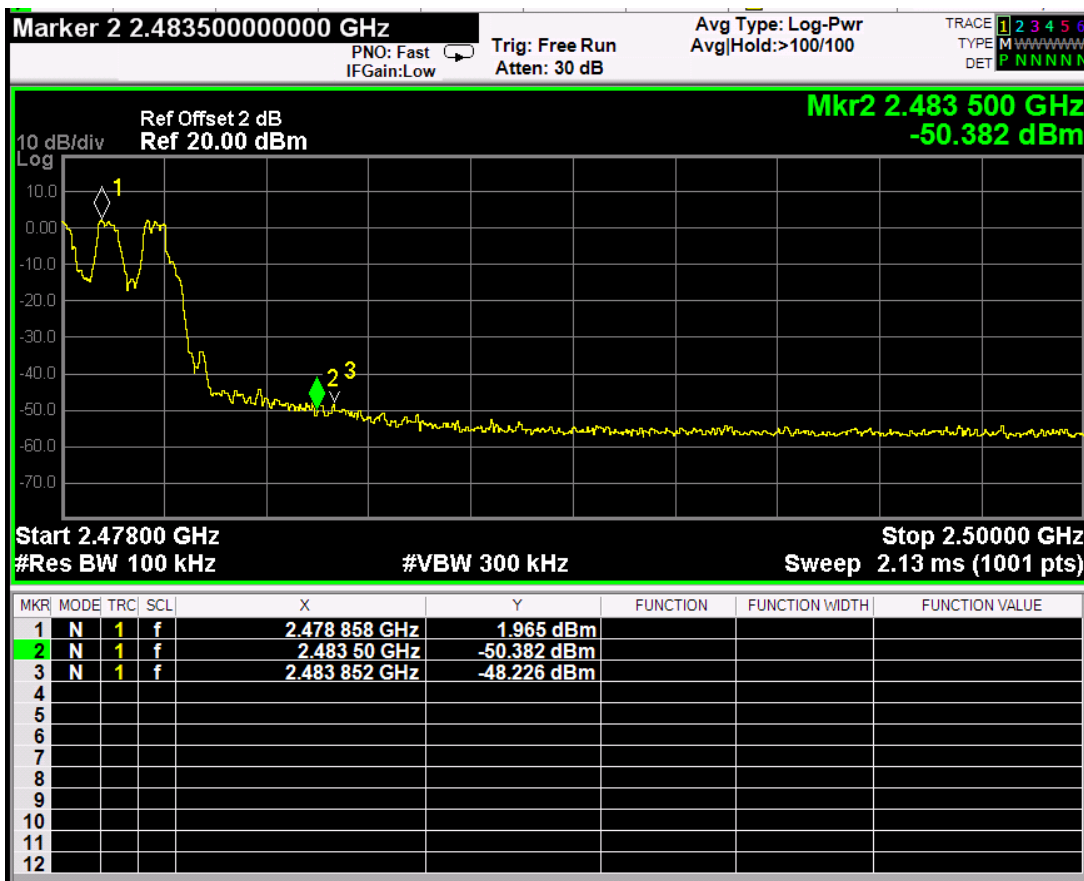
Ch78 2480MHz (Upper Edge 2483.5 MHz) NON-EDR



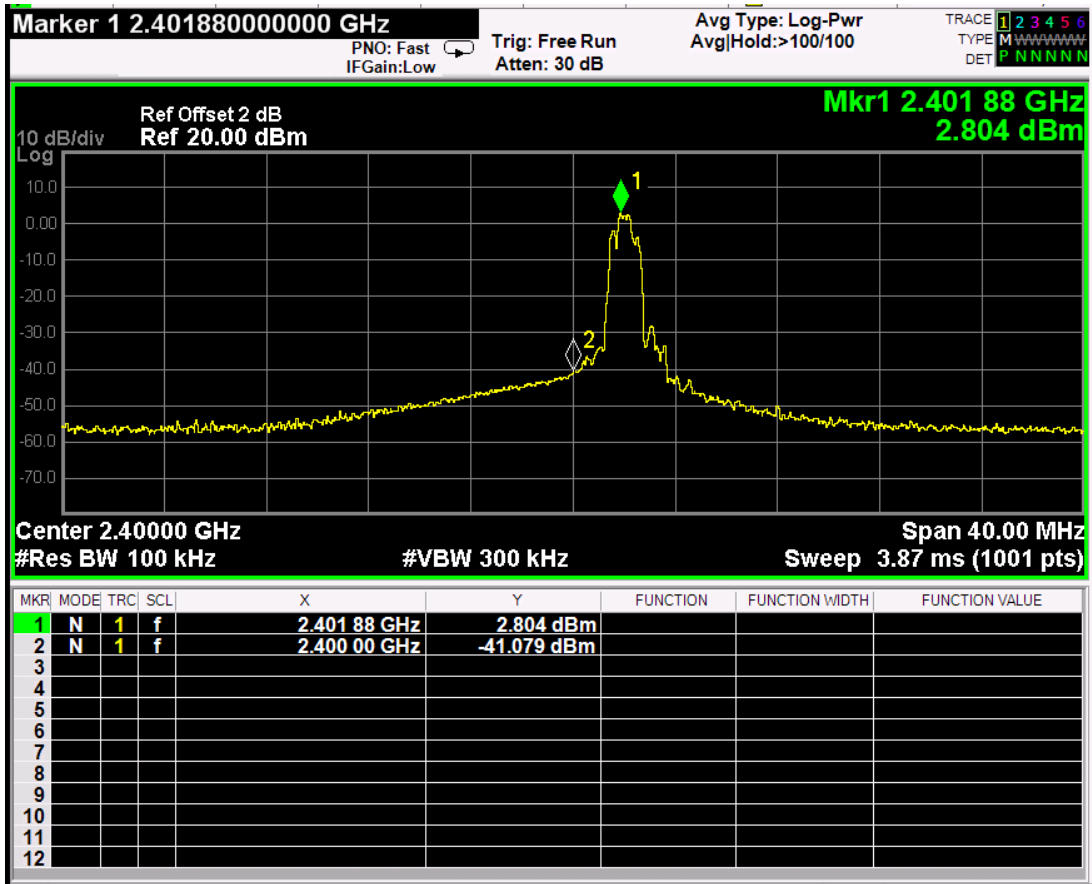
Ch00 2402MHz (Below Edge 2400 MHz) NON-EDR HOPPING



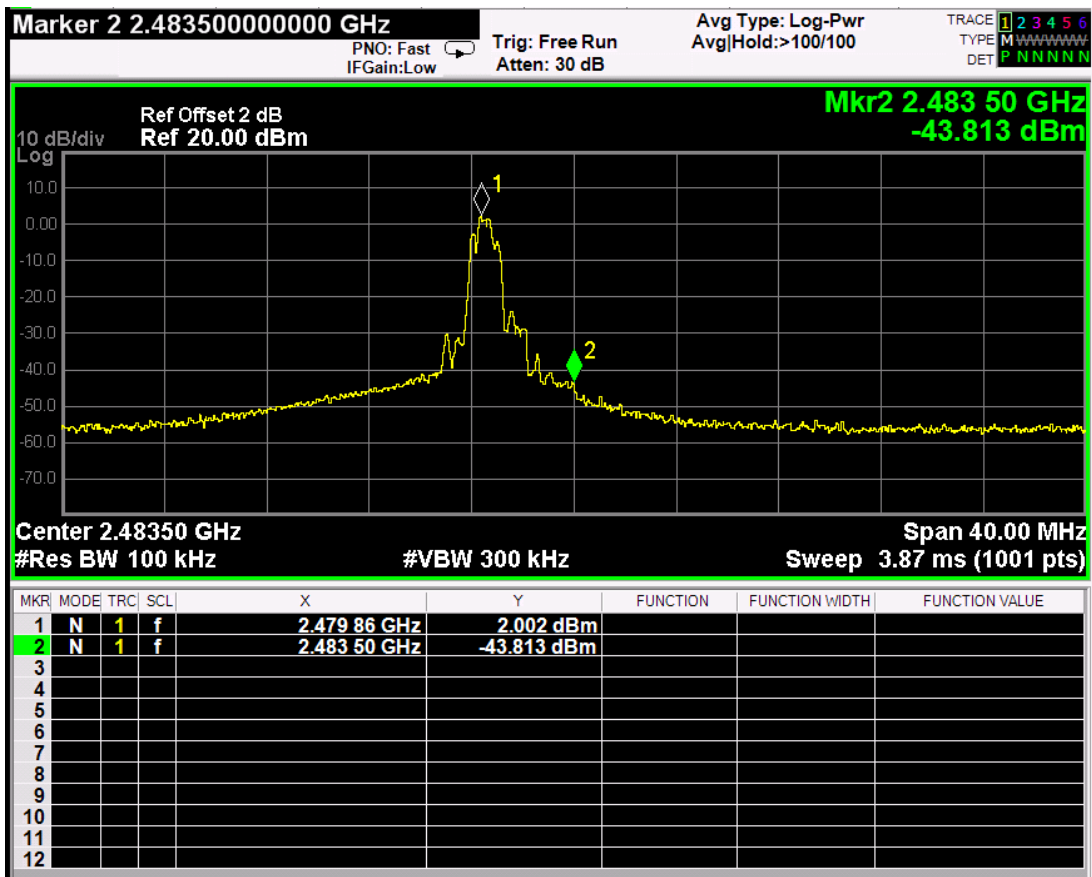
Ch78 2480MHz (Upper Edge 2483.5 MHz) NON-EDR HOPPING



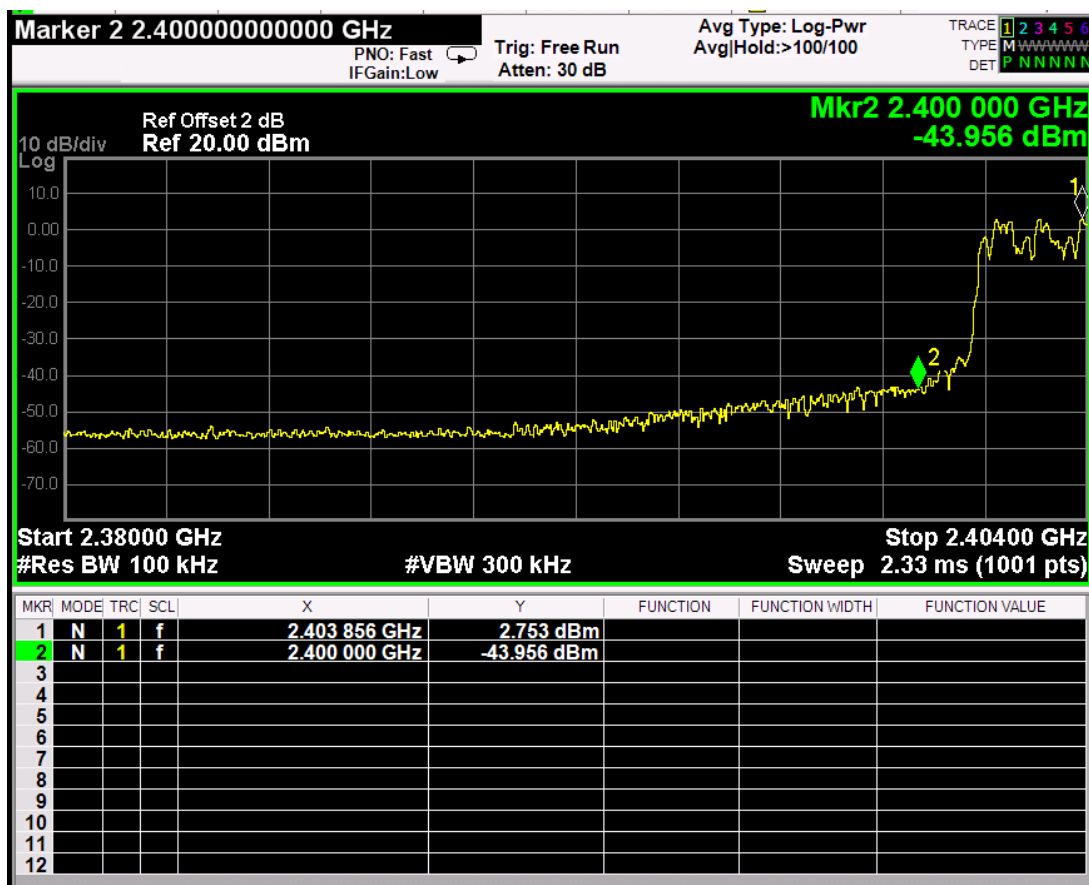
Ch00 2402MHz (Below Edge 2400 MHz) EDR



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.

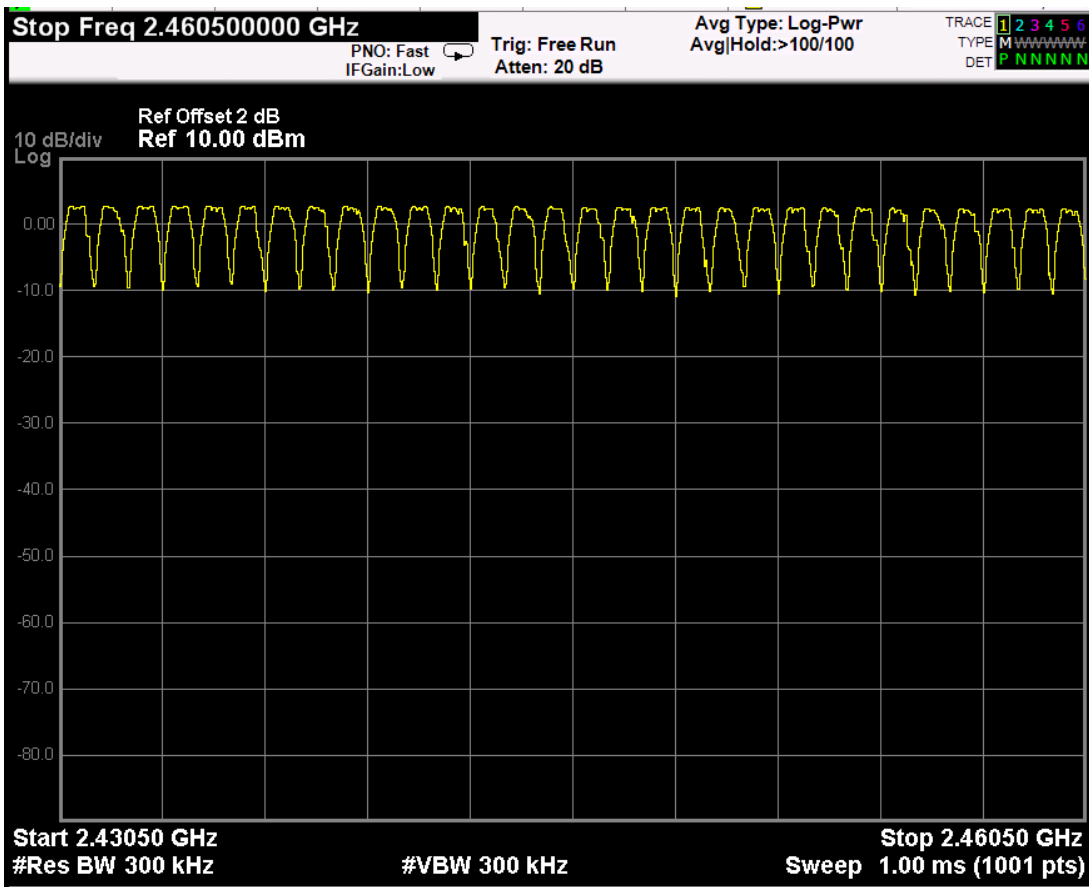
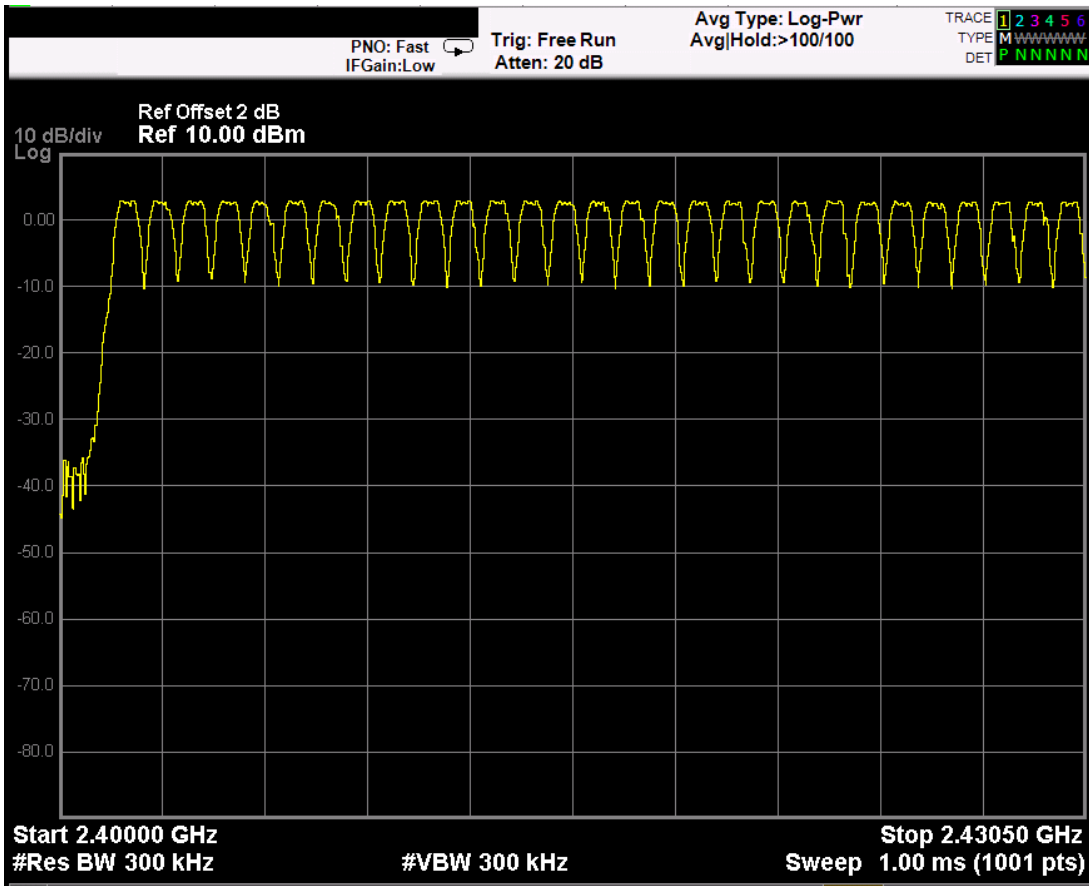
The test procedure is defined in DA 00-705.

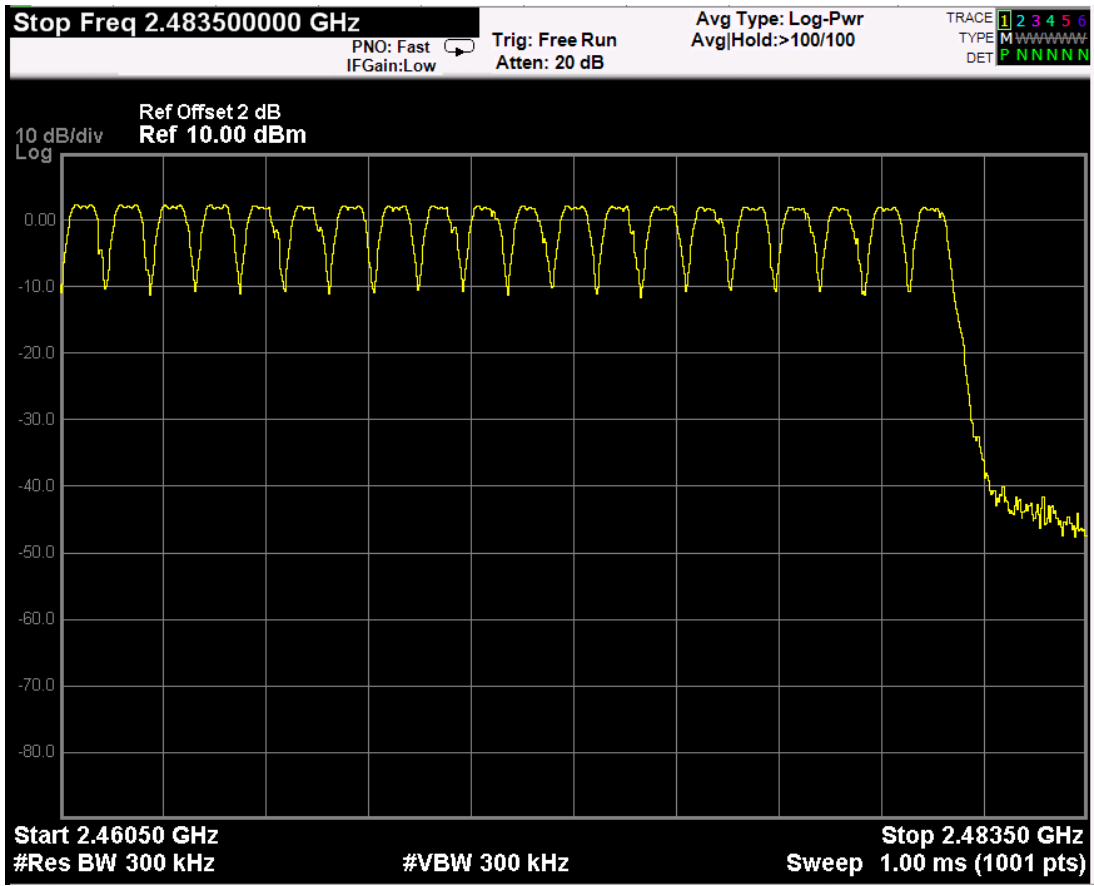
8.6 Test Results

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

(Test Date: Jul. 10, 2013 Temperature: 27°C Humidity: 49 %)

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.

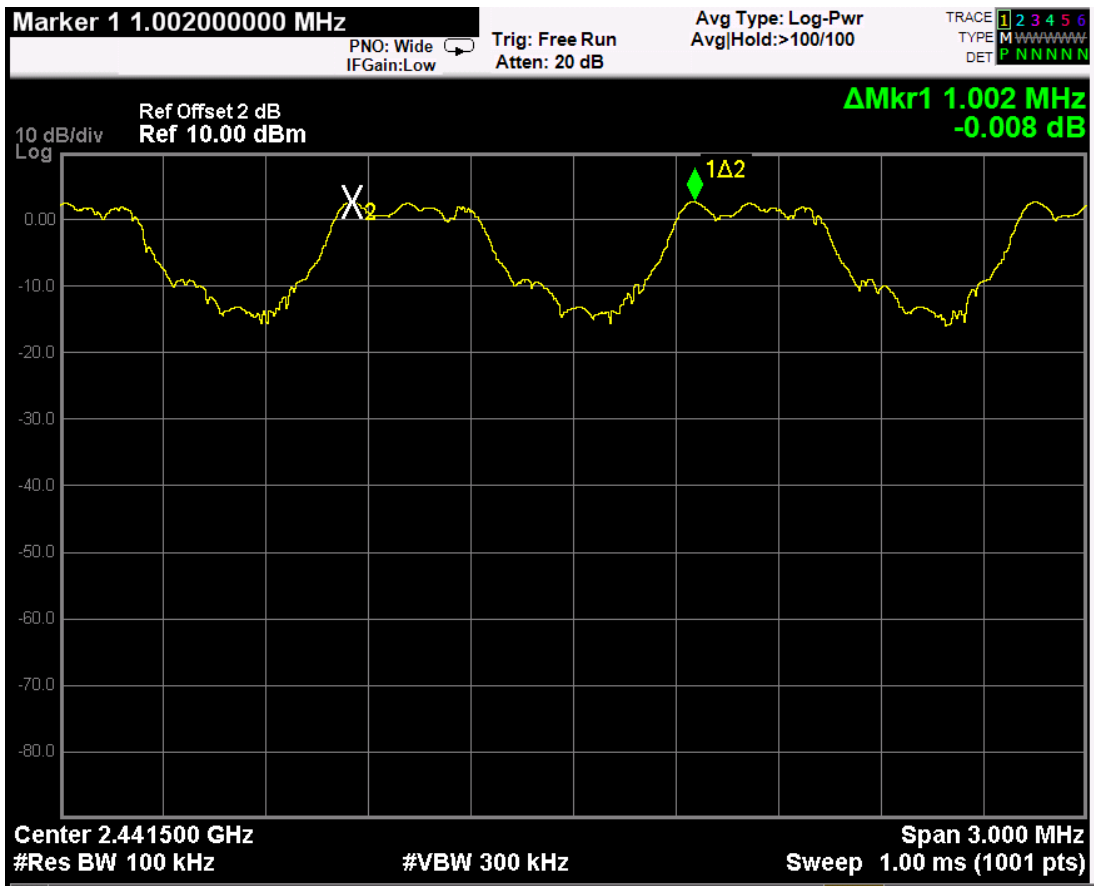
The test procedure is defined in DA 00-705.

9.6 Test Results

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

(Test Date: Jul. 10, 2013 Temperature: 27°C Humidity: 49 %)

Result	Limit (20dB Bandwidth)	Conclusion
1.002 MHz	> 0.950 MHz	Pass



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, 2012	Sep 11, 2013

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: Jul. 12, 2013 Temperature: 27°C Humidity: 45 %)

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

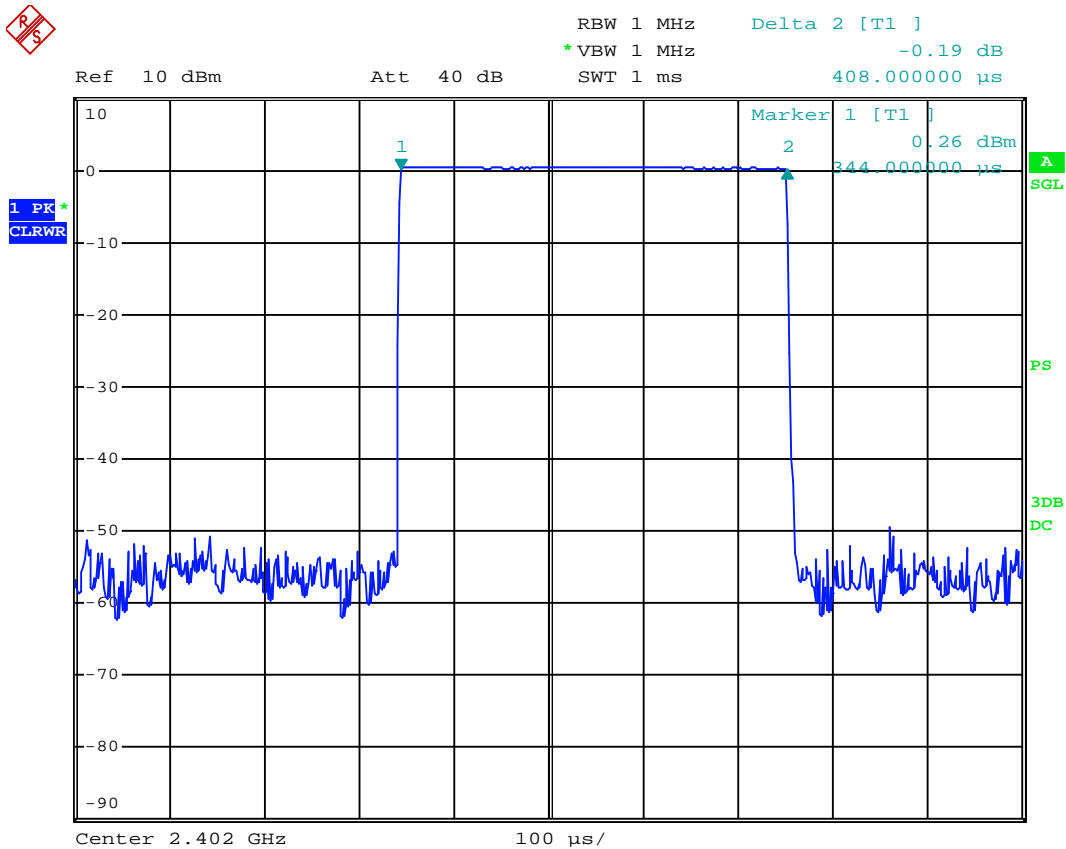
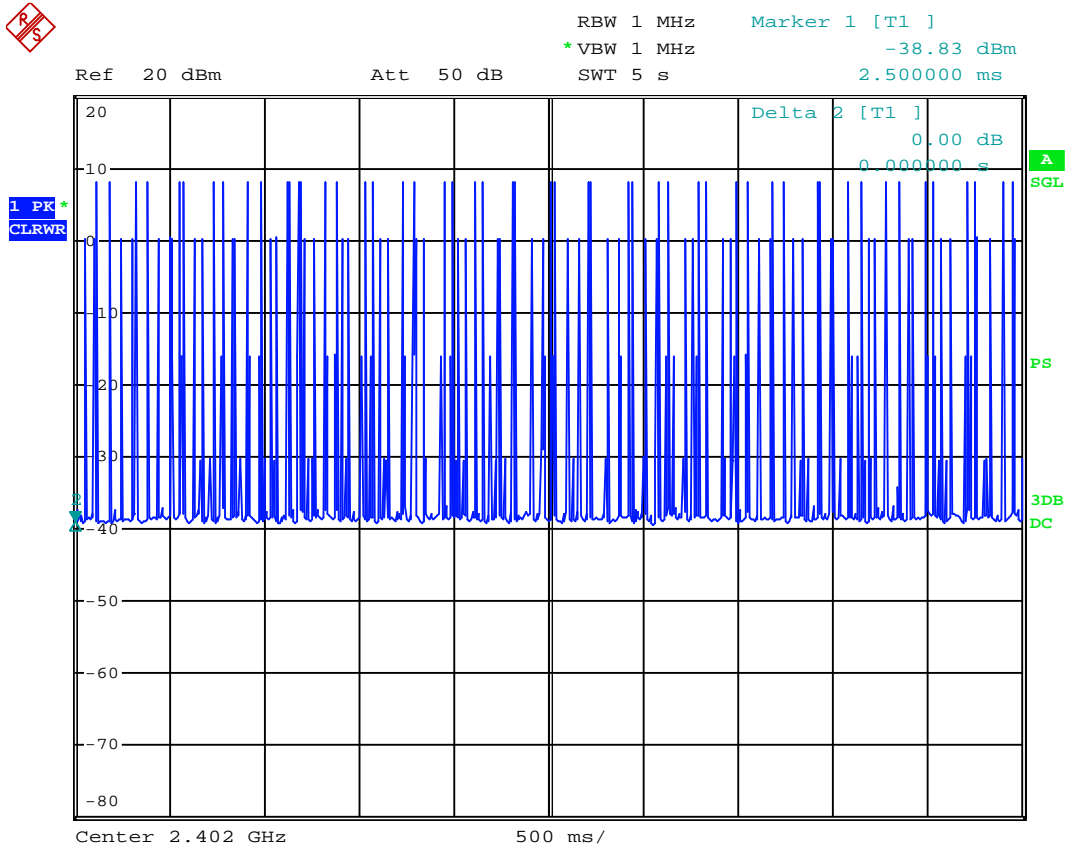
Ch 00 2402MHz NON-EDR

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	0.408	303*0.408 = 123.6	< 400	Pass
DH3	24 times/5 sec * 31.6=152 times	0.366	152*0.364 = 55.3	< 400	Pass
DH5	17 times/5 sec * 31.6=107 times	0.366	107*0.368 = 39.2	< 400	Pass

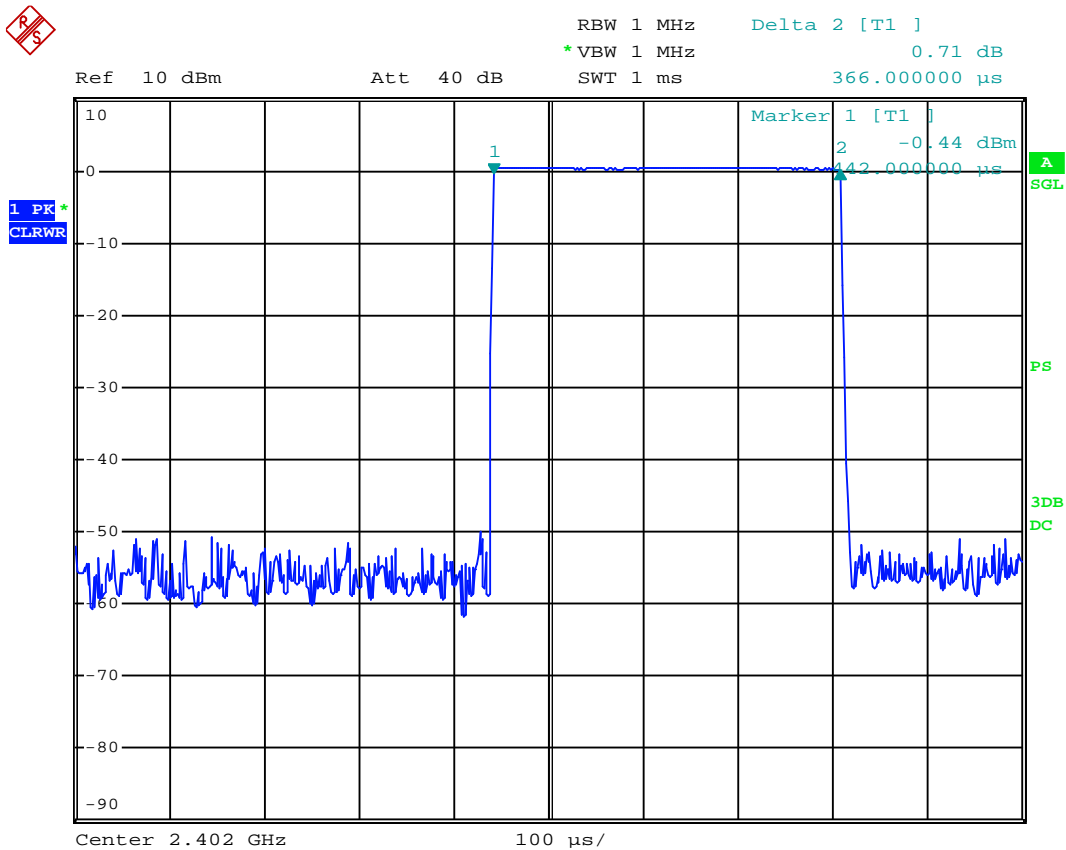
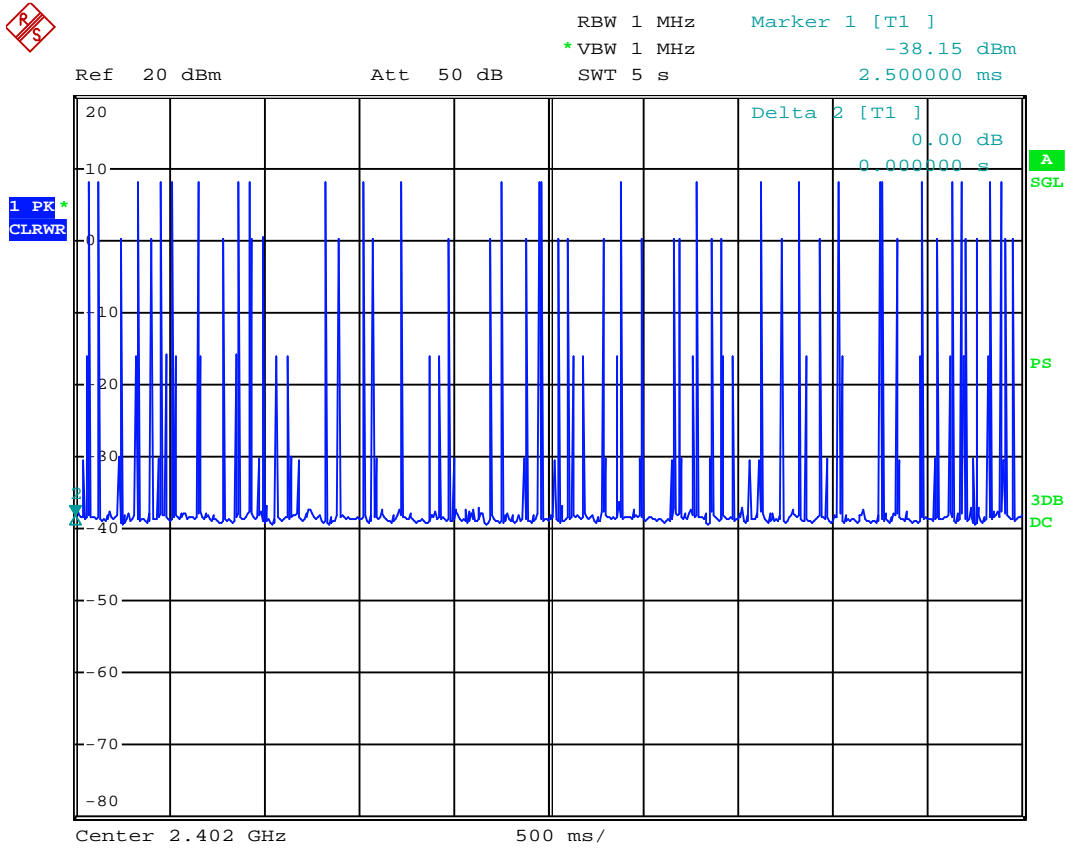
Ch 00 2402MHz EDR

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	0.406	303*0.406 = 123.0	< 400	Pass
DH3	30 times/5 sec * 31.6=190 times	0.165	190*0.166 = 31.5	< 400	Pass
DH5	16 times/5 sec * 31.6=101 times	0.166	101*0.166 = 16.8	< 400	Pass

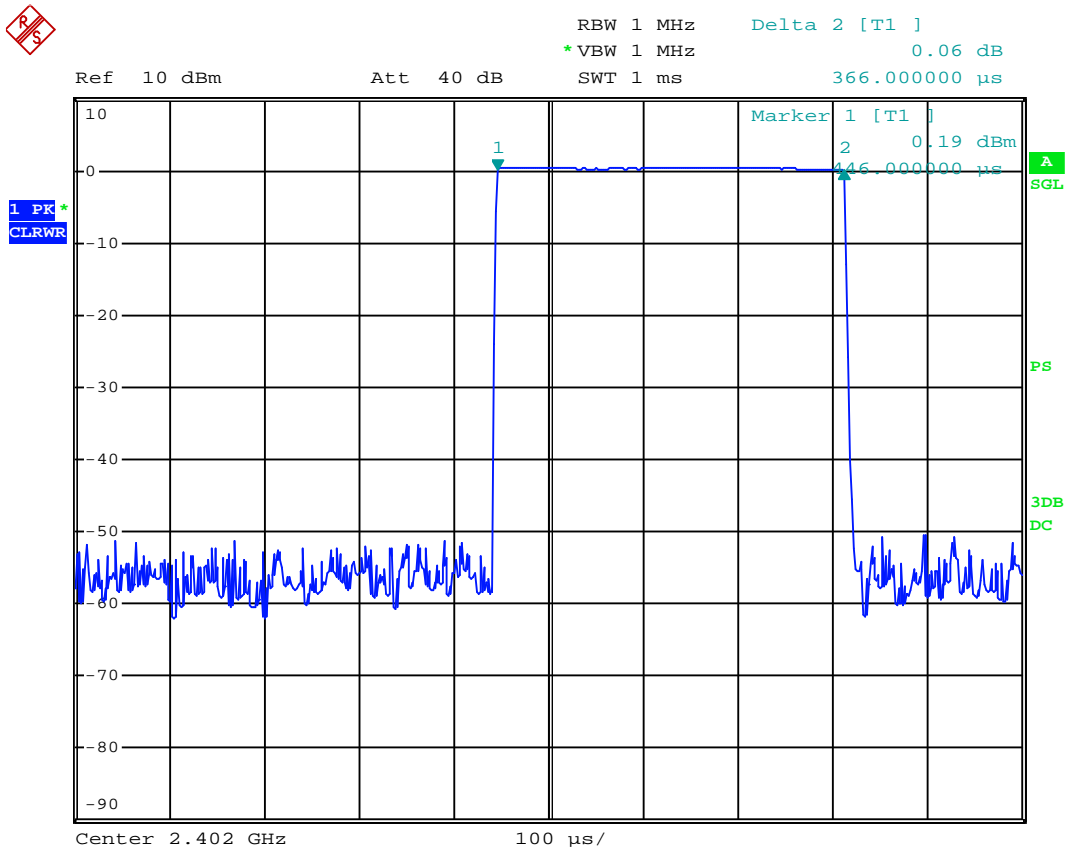
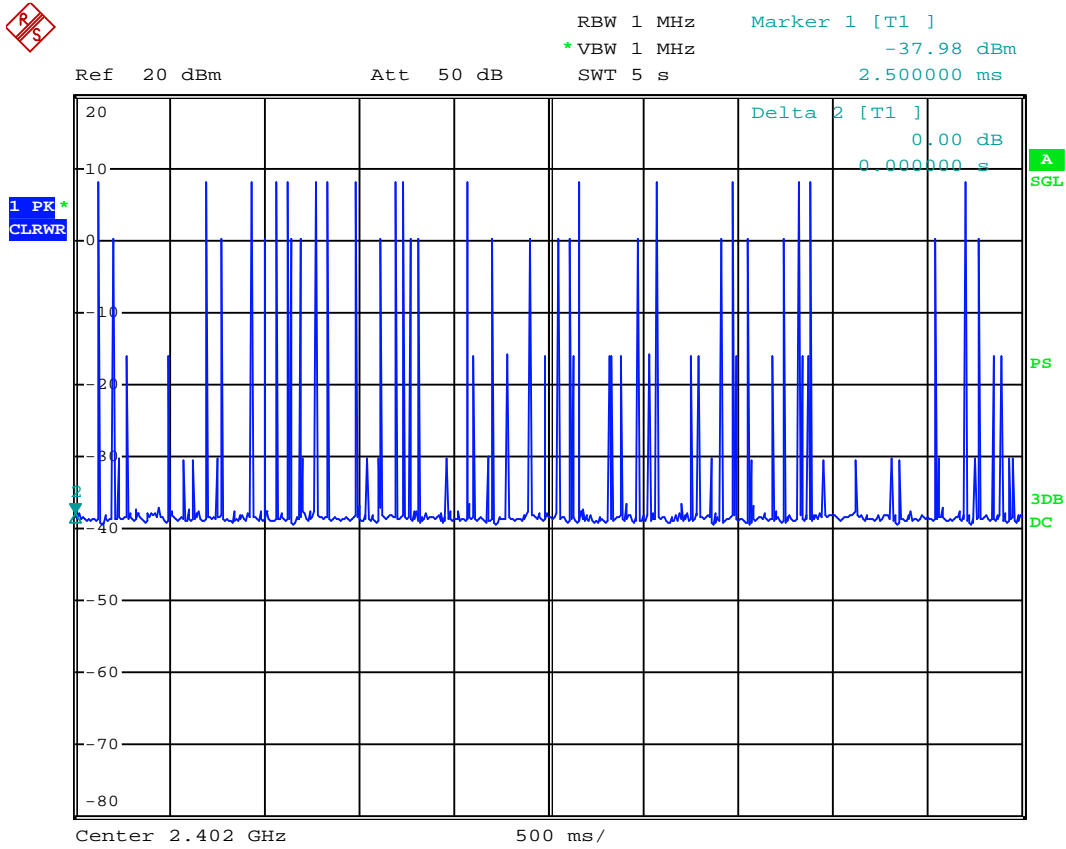
For Ch 00 2402MHz NON-EDR DH1



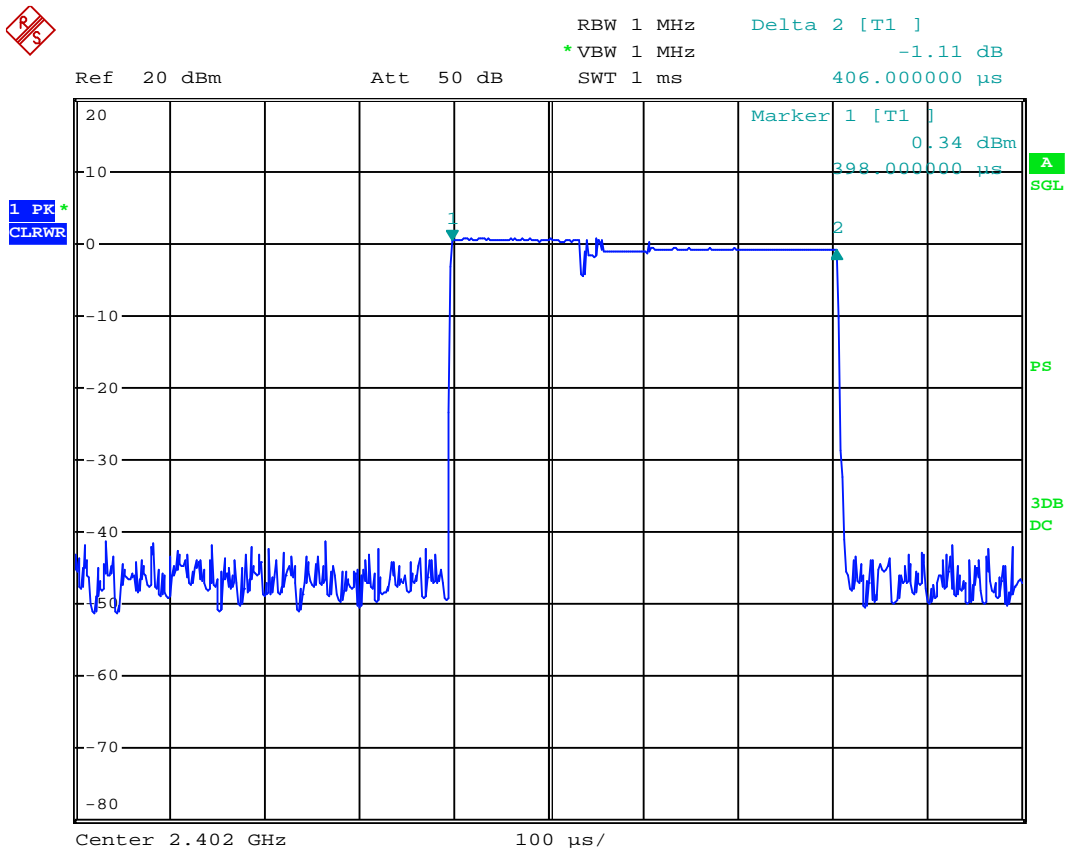
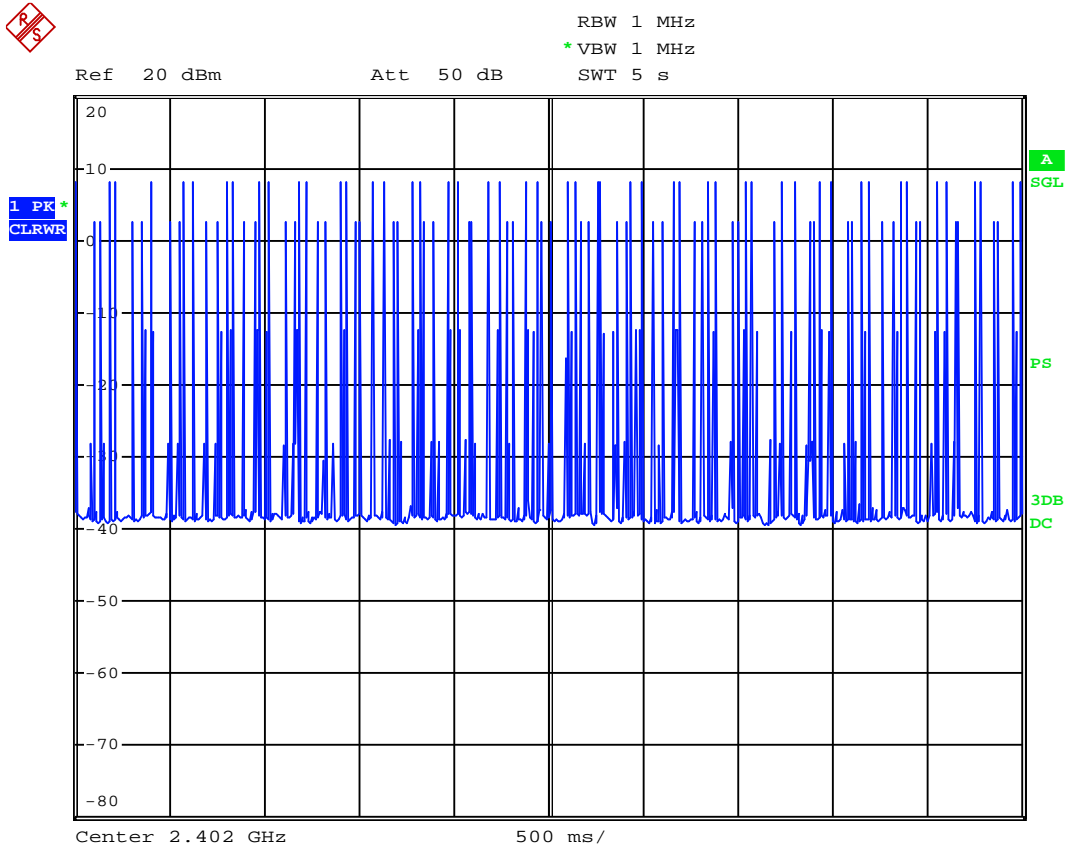
For Ch 00 2402MHz NON-EDR DH3



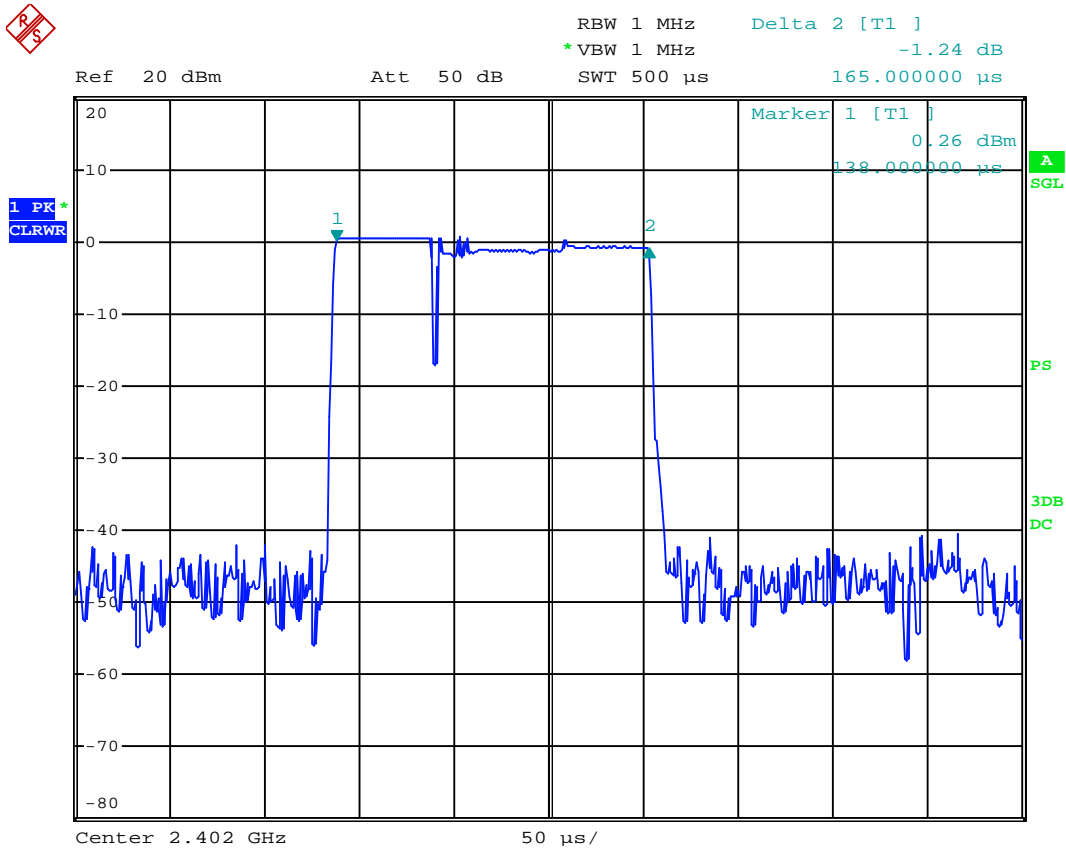
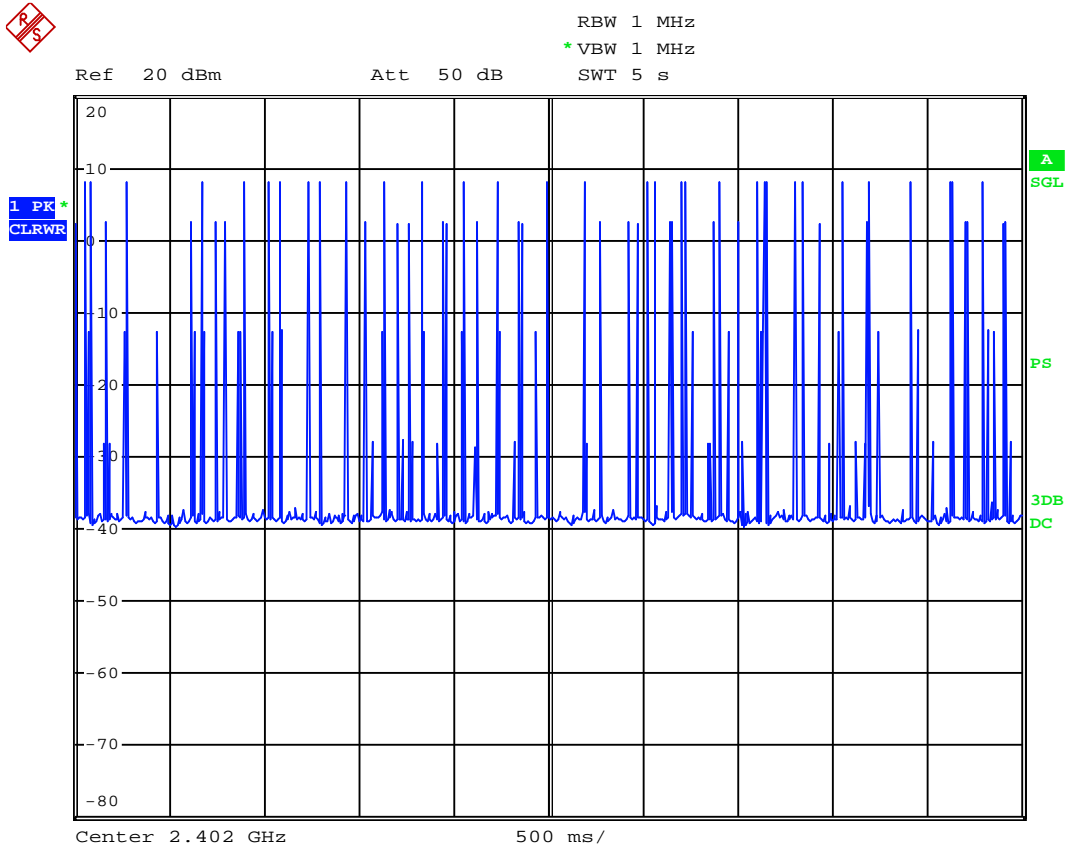
For Ch 00 2402MHz NON-EDR DH5



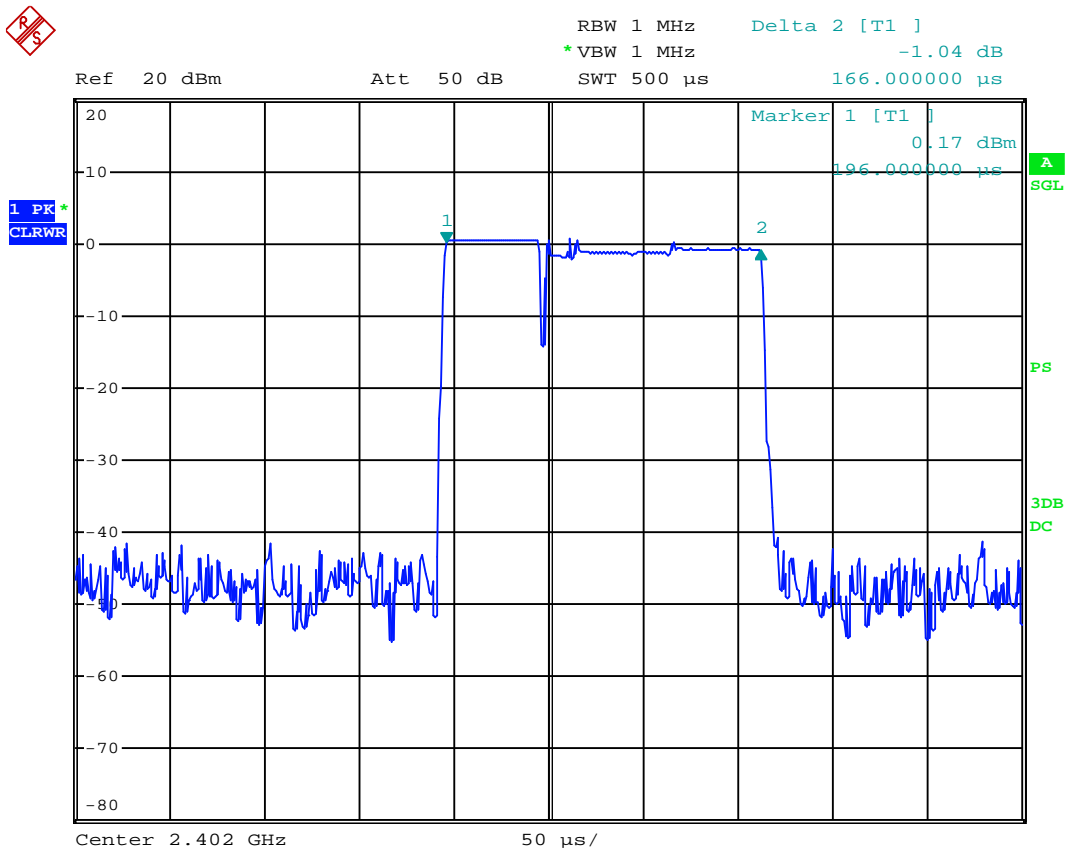
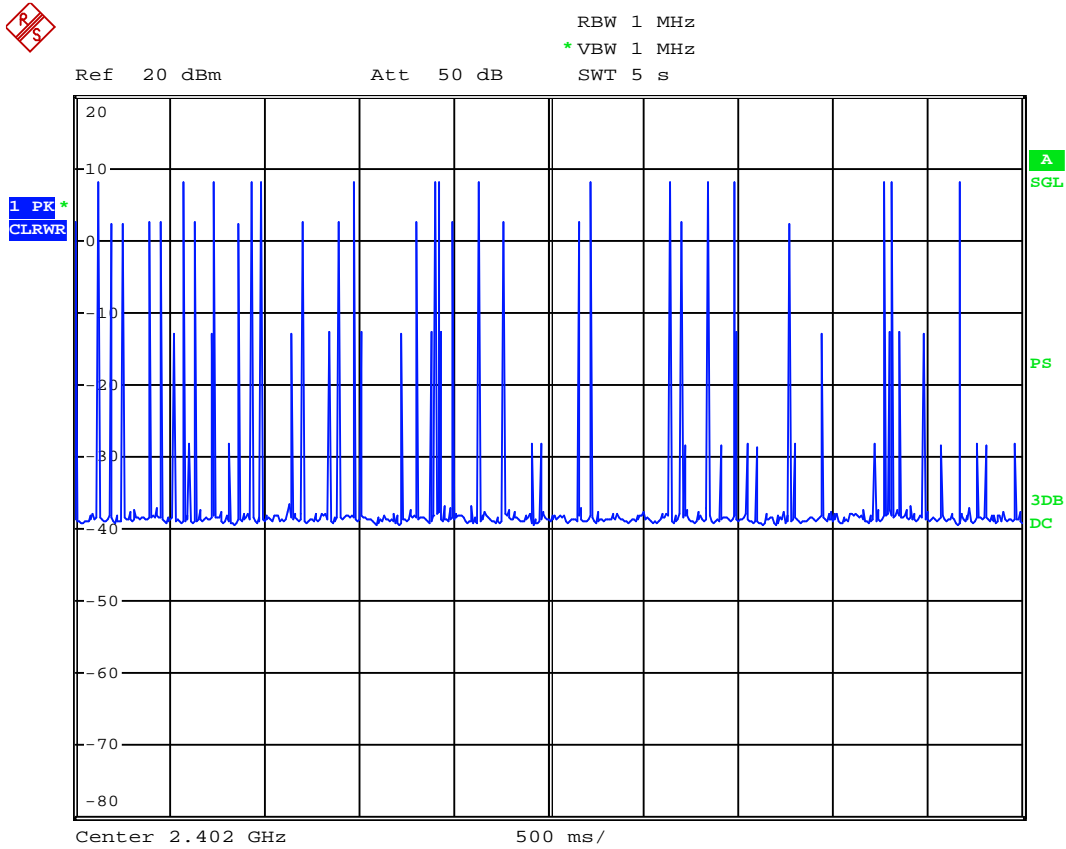
For Ch 00 2402MHz EDR DH1



For Ch 00 2402MHz EDR DH3



For Ch 00 2402MHz EDR DH5



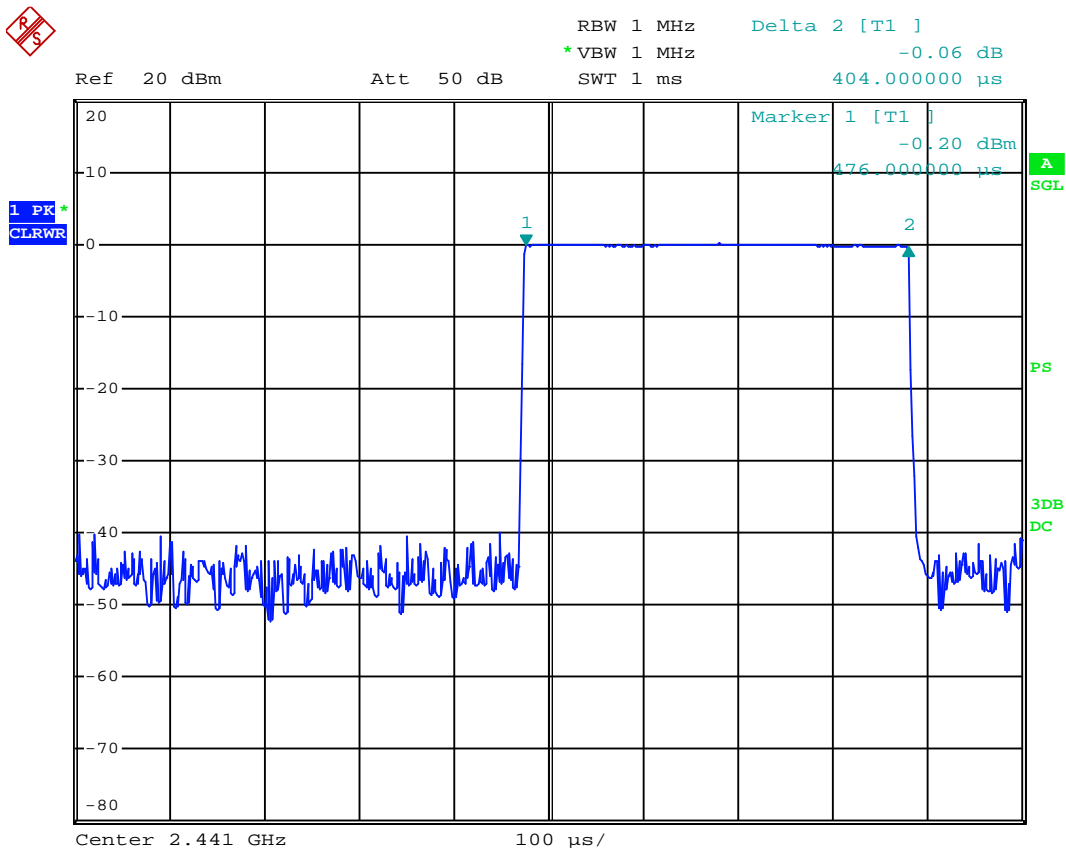
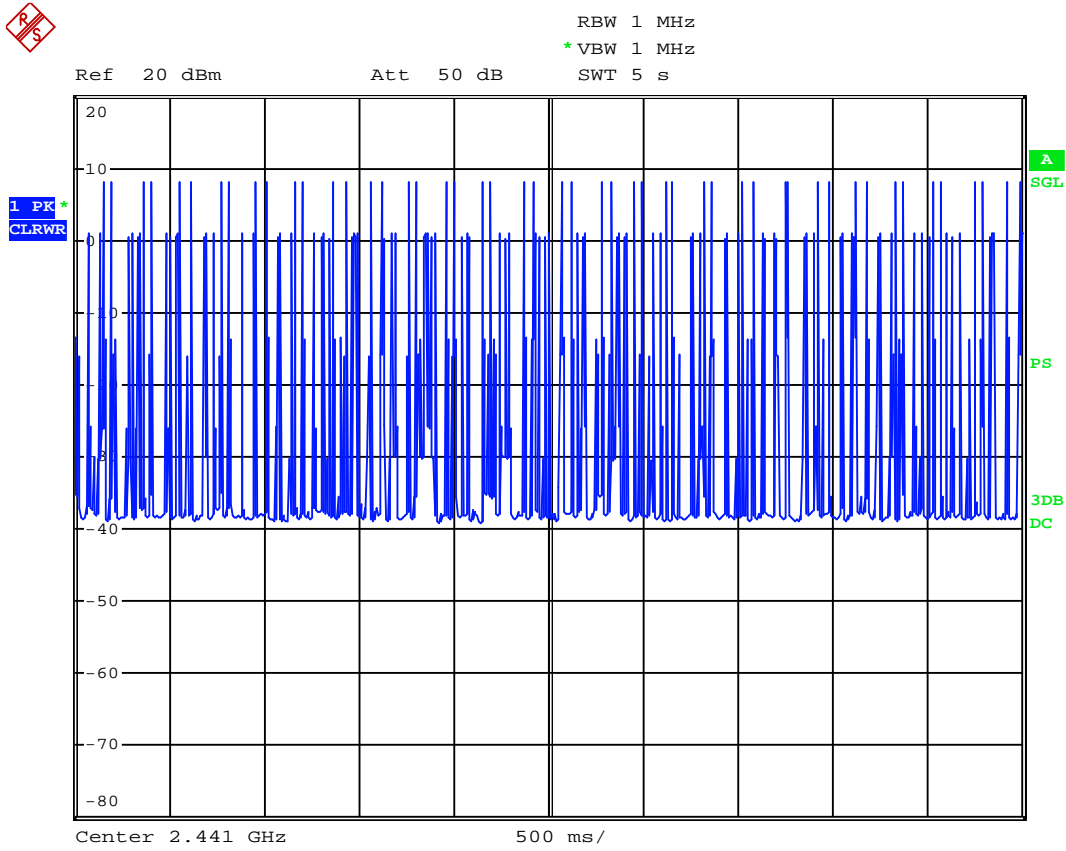
Ch 39 2441MHz NON-EDR

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	0.404	310*0.406 = 125.9	< 400	Pass
DH3	24 times/5 sec * 31.6=152 times	0.364	152*0.366 = 55.6	< 400	Pass
DH5	17 times/5 sec * 31.6=107 times	0.366	107*0.368 = 39.4	< 400	Pass

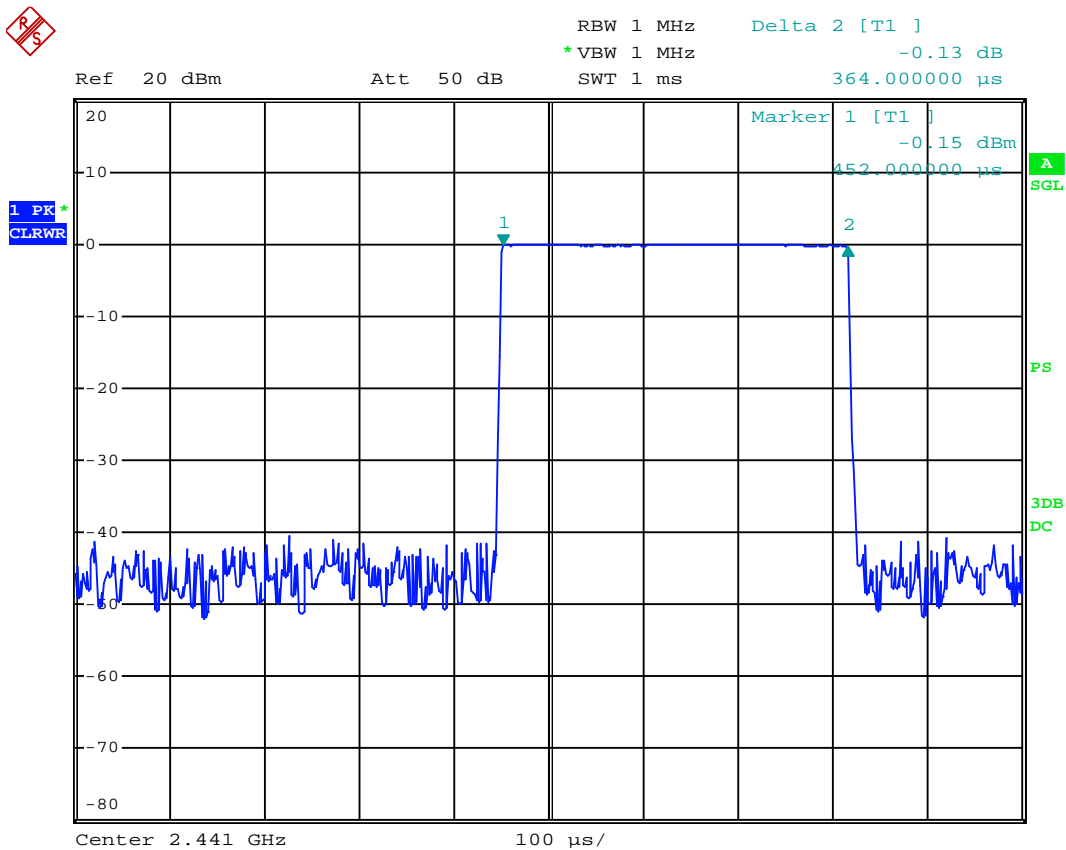
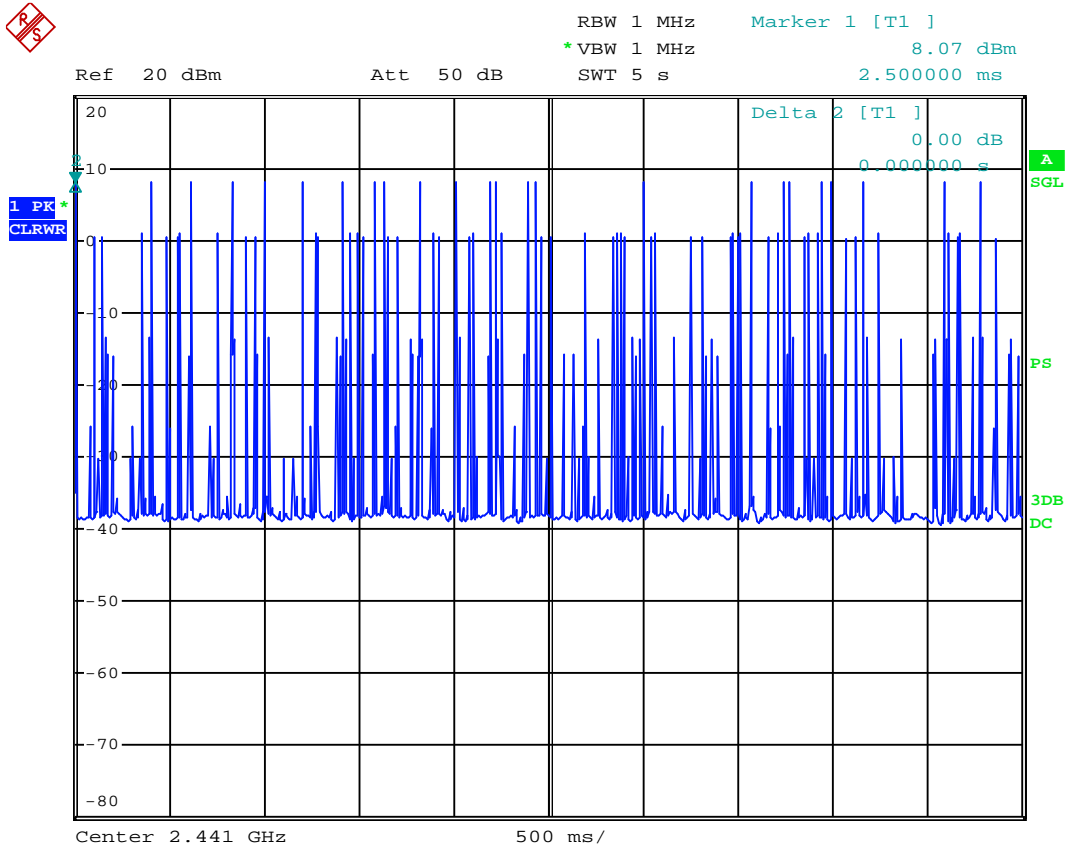
Ch 39 2441MHz EDR

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*0.408 = 121.2	< 400	Pass
DH3	24 times/5 sec * 31.6=152 times	0.164	152*0.165 = 25.1	< 400	Pass
DH5	17 times/5 sec * 31.6=107 times	0.166	107*0.166 = 17.8	< 400	Pass

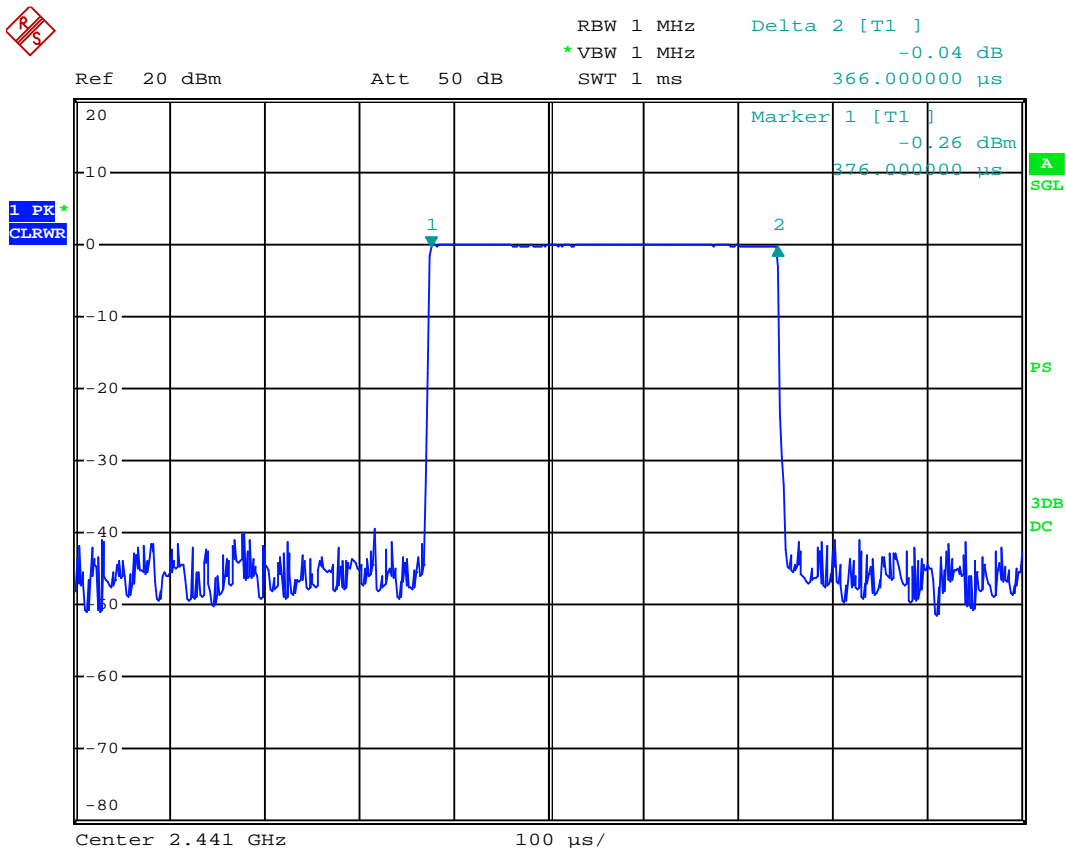
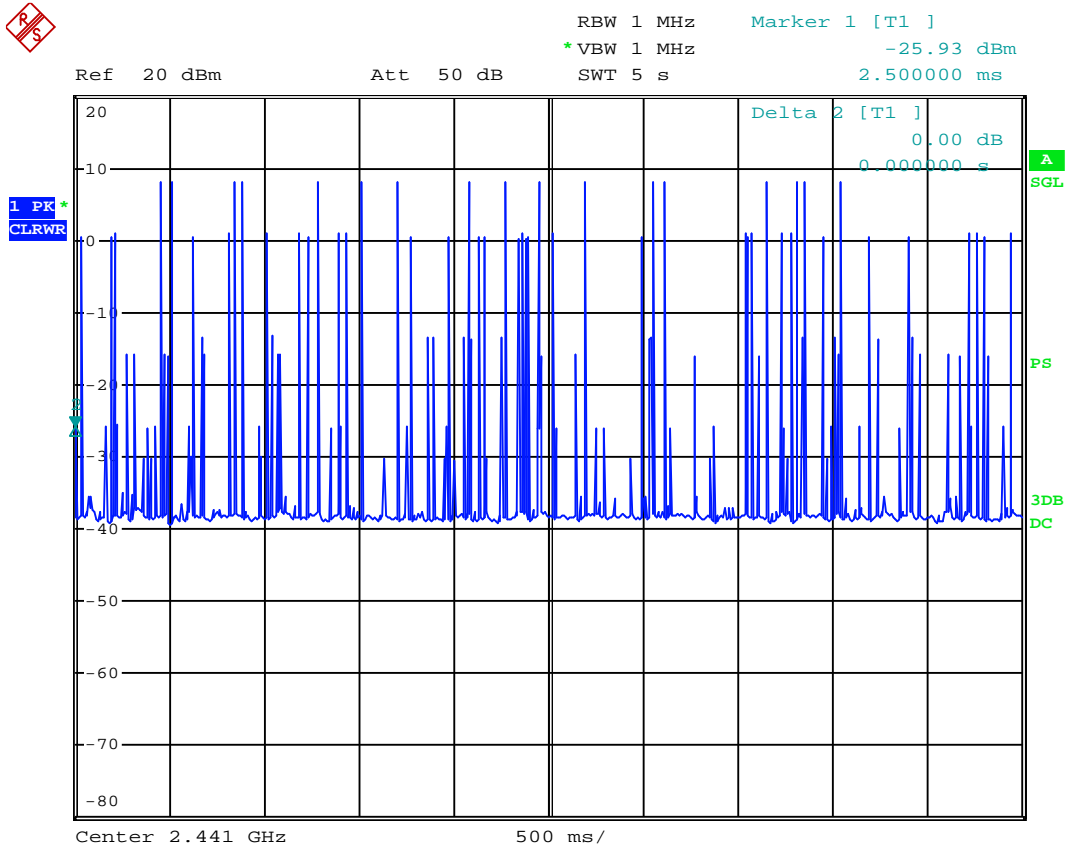
For Ch 39 2441MHz NON-EDR DH1



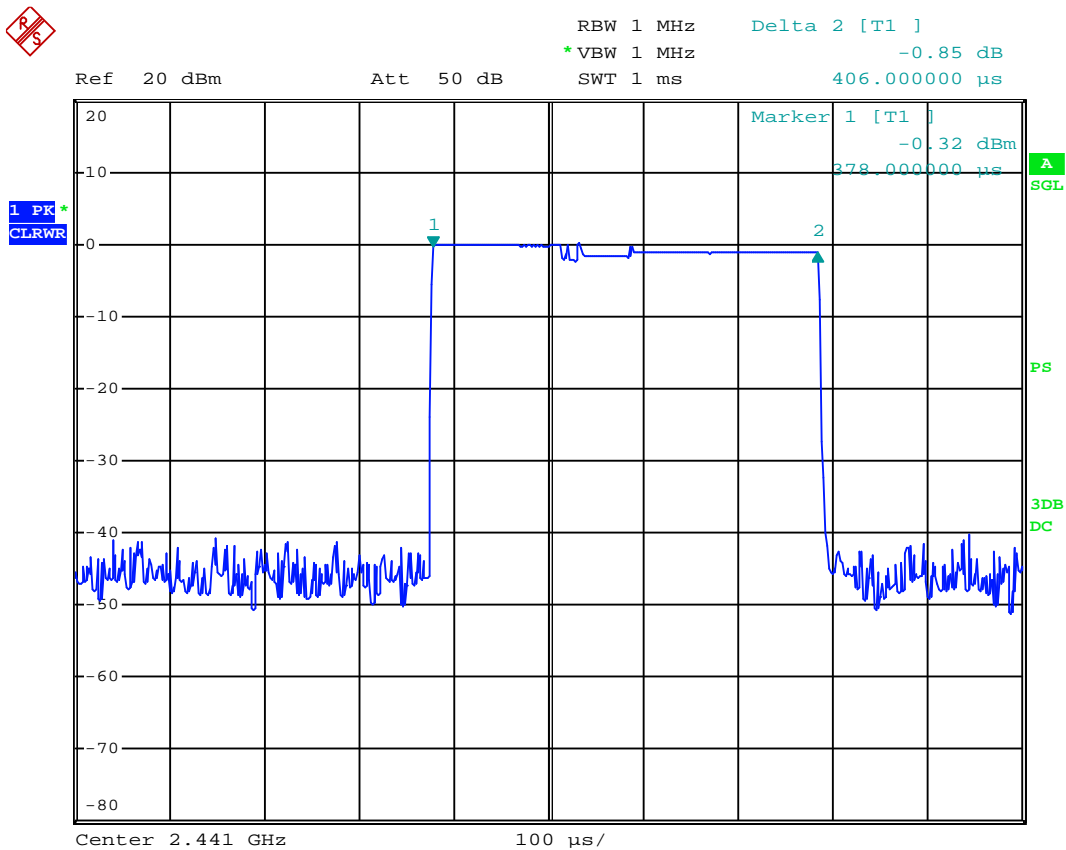
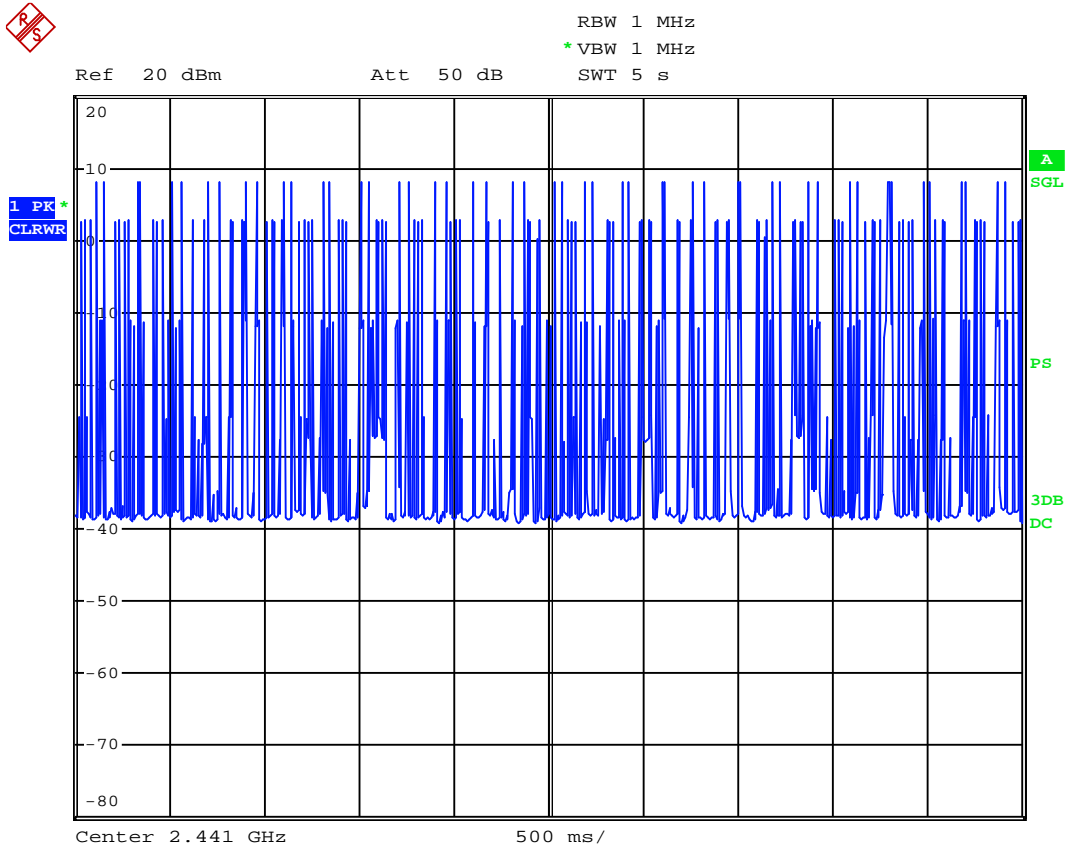
For Ch 39 2441MHz NON-EDR DH3



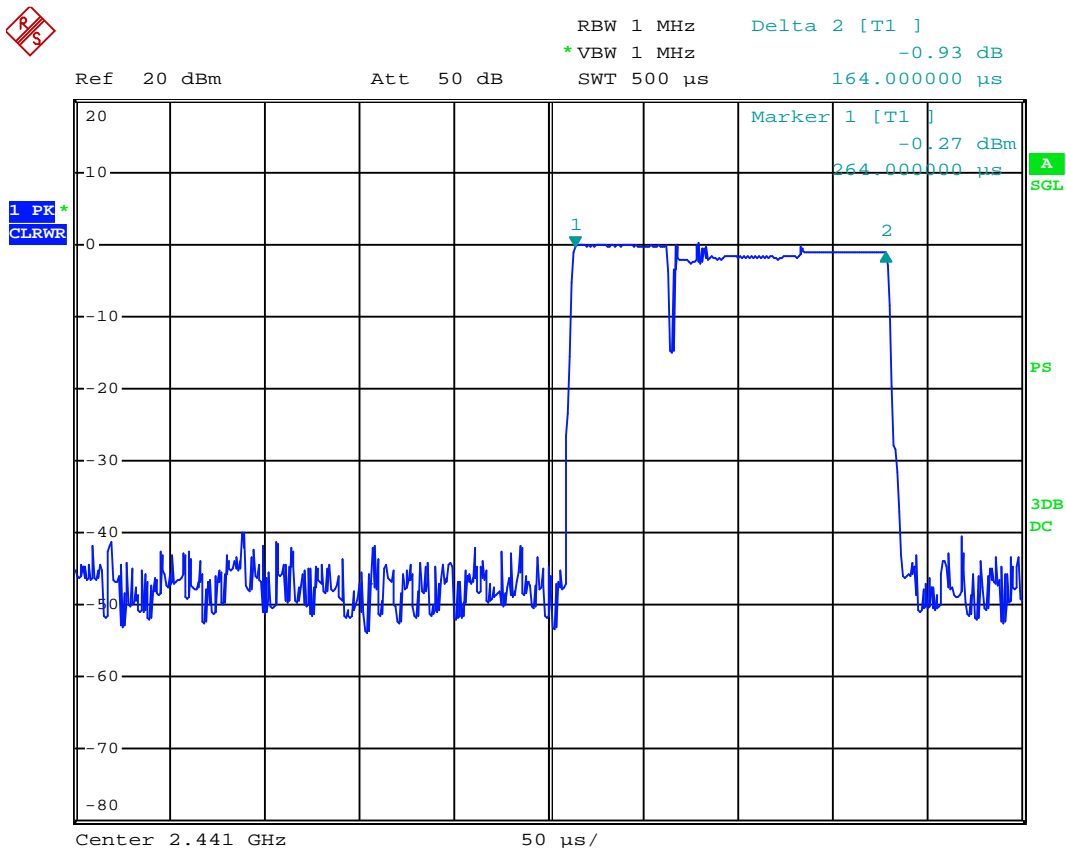
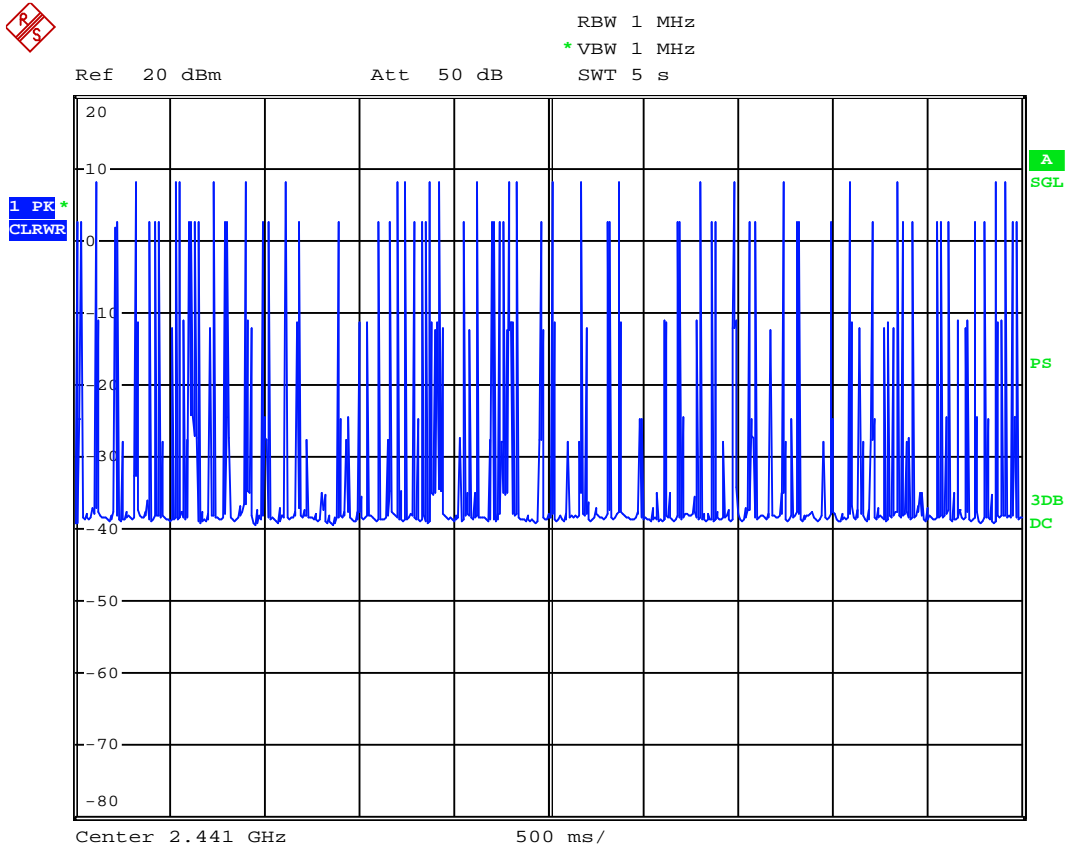
For Ch 39 2441MHz NON-EDR DH5



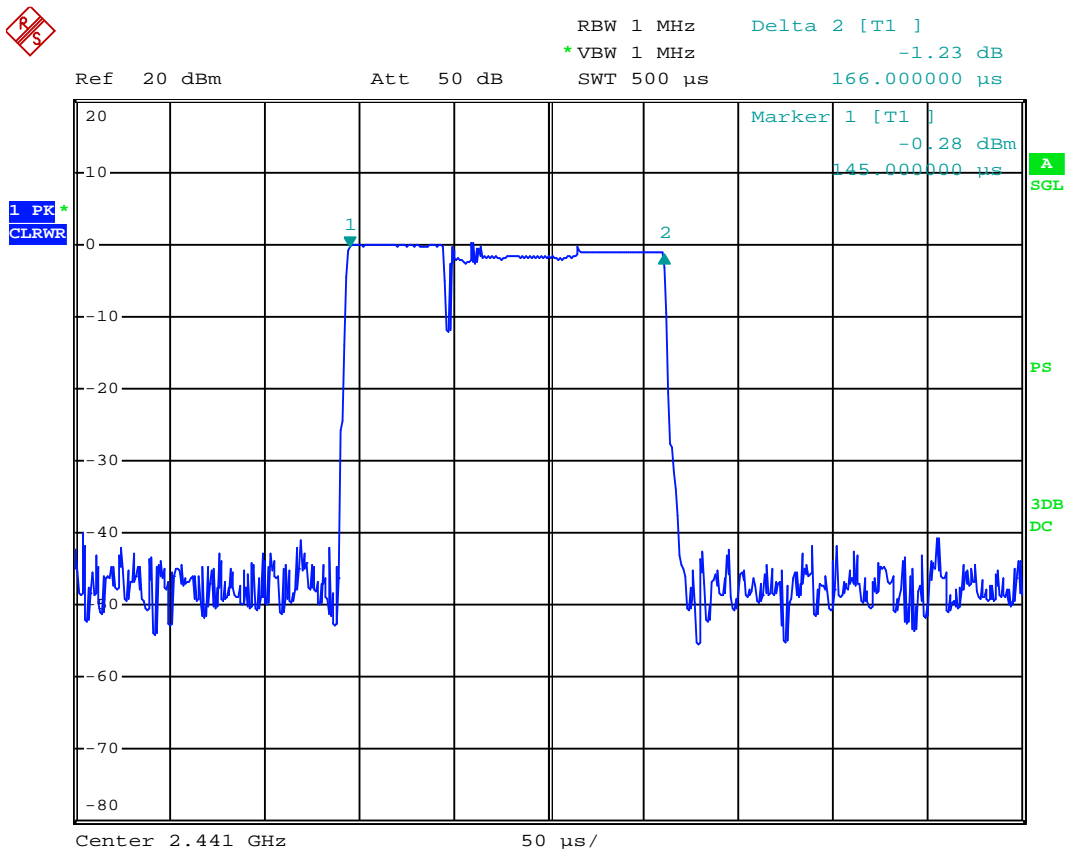
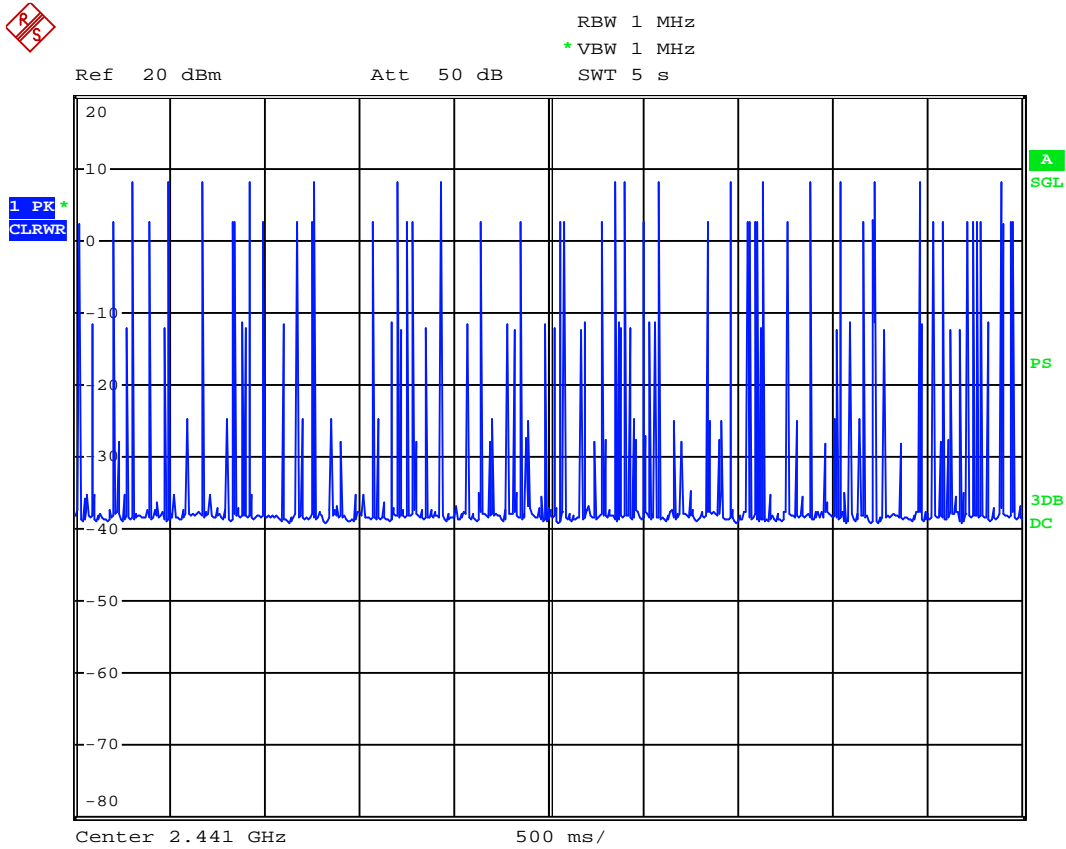
For Ch 39 2441MHz EDR DH1



For Ch 39 2441MHz EDR DH3



For Ch 39 2441MHz EDR DH5



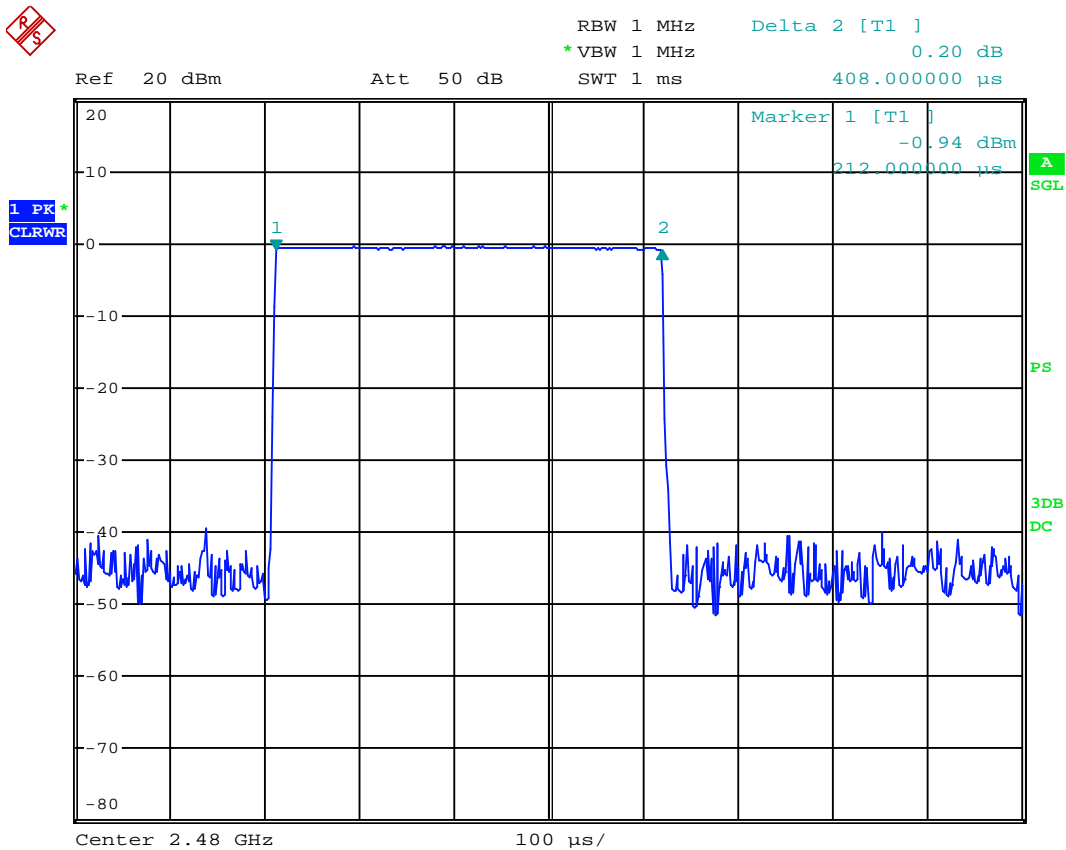
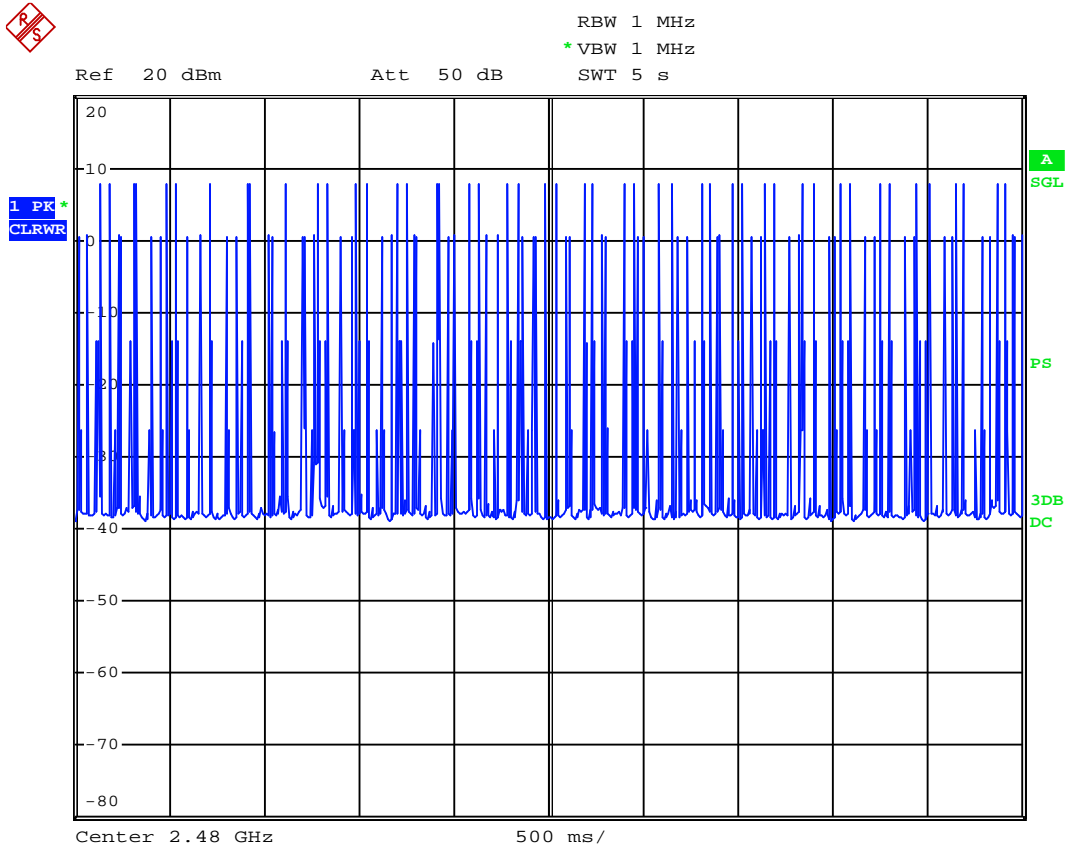
Ch 78 2480MHz NON-EDR

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	0.408	303*0.408 = 123.6	< 400	Pass
DH3	24 times/5 sec * 31.6=152 times	0.366	152*0.366 = 55.6	< 400	Pass
DH5	19 times/5 sec * 31.6=120 times	0.366	120*0.366 = 43.9	< 400	Pass

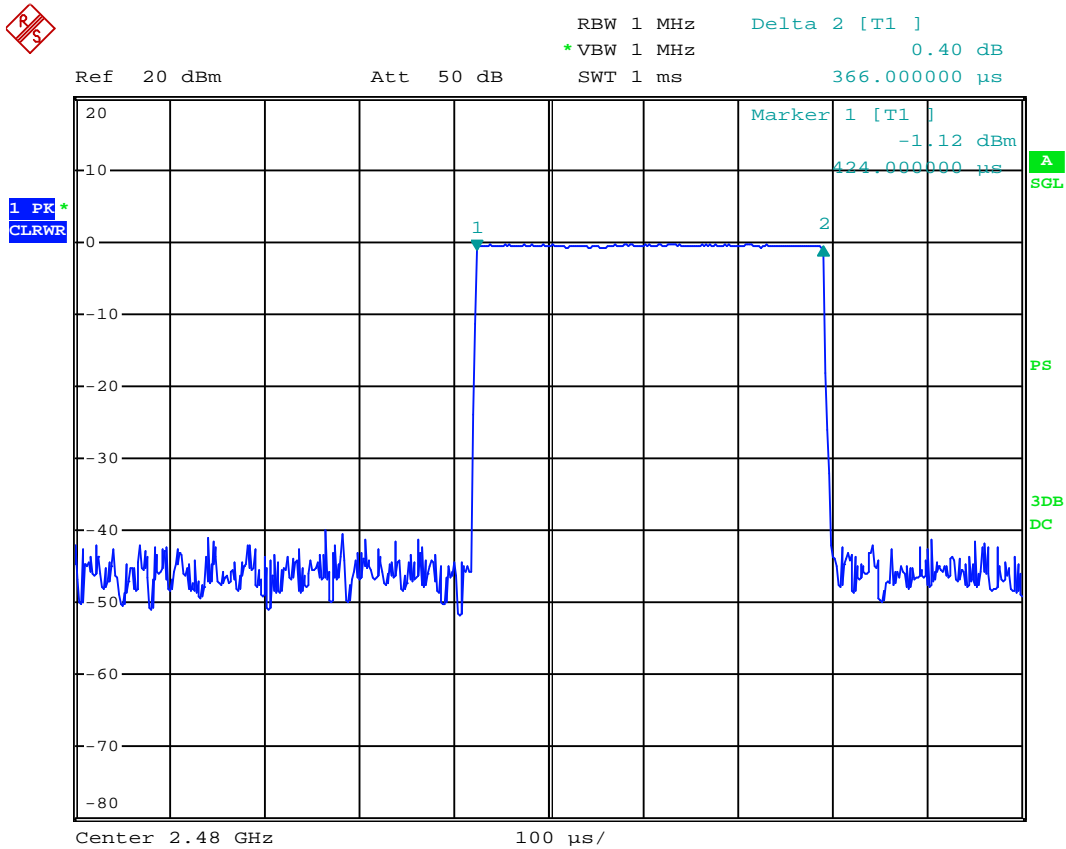
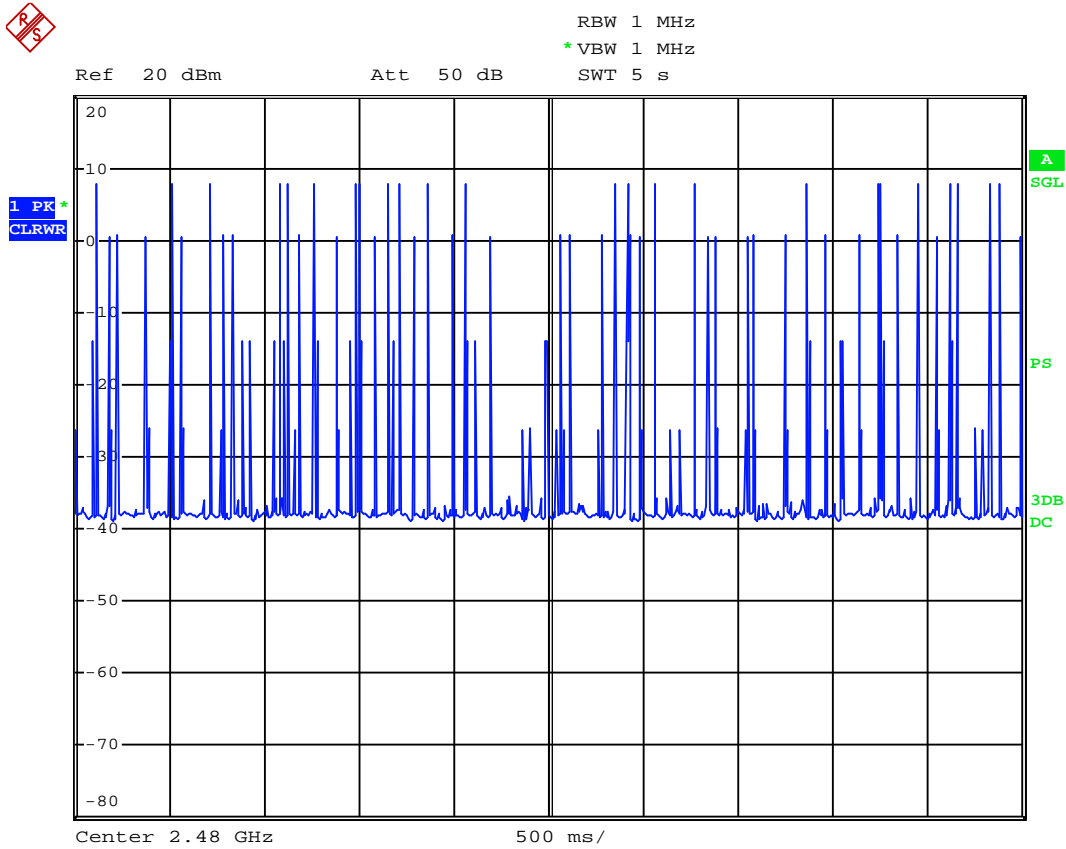
Ch 78 2480MHz EDR

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	0.406	303*0.406 = 123.0	< 400	Pass
DH3	25 times/5 sec * 31.6=158 times	0.165	158*0.165 = 26.1	< 400	Pass
DH5	17 times/5 sec * 31.6=107 times	0.165	107*0.165 = 17.7	< 400	Pass

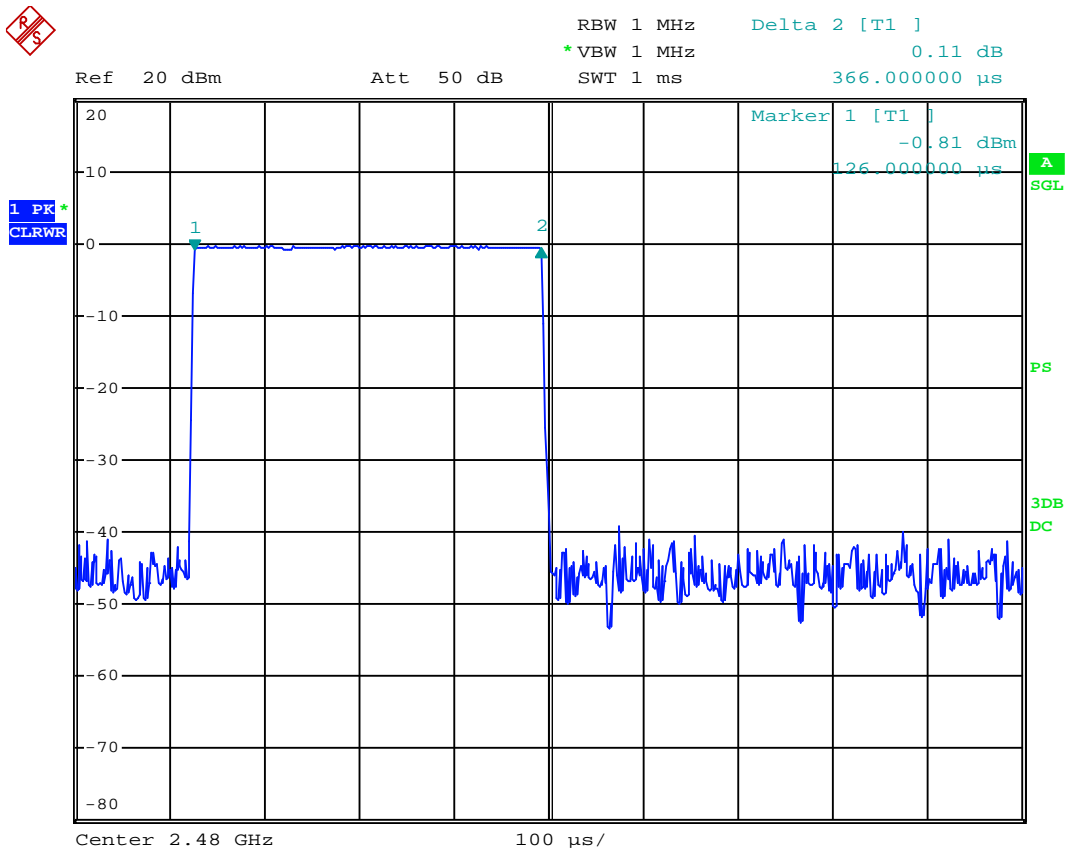
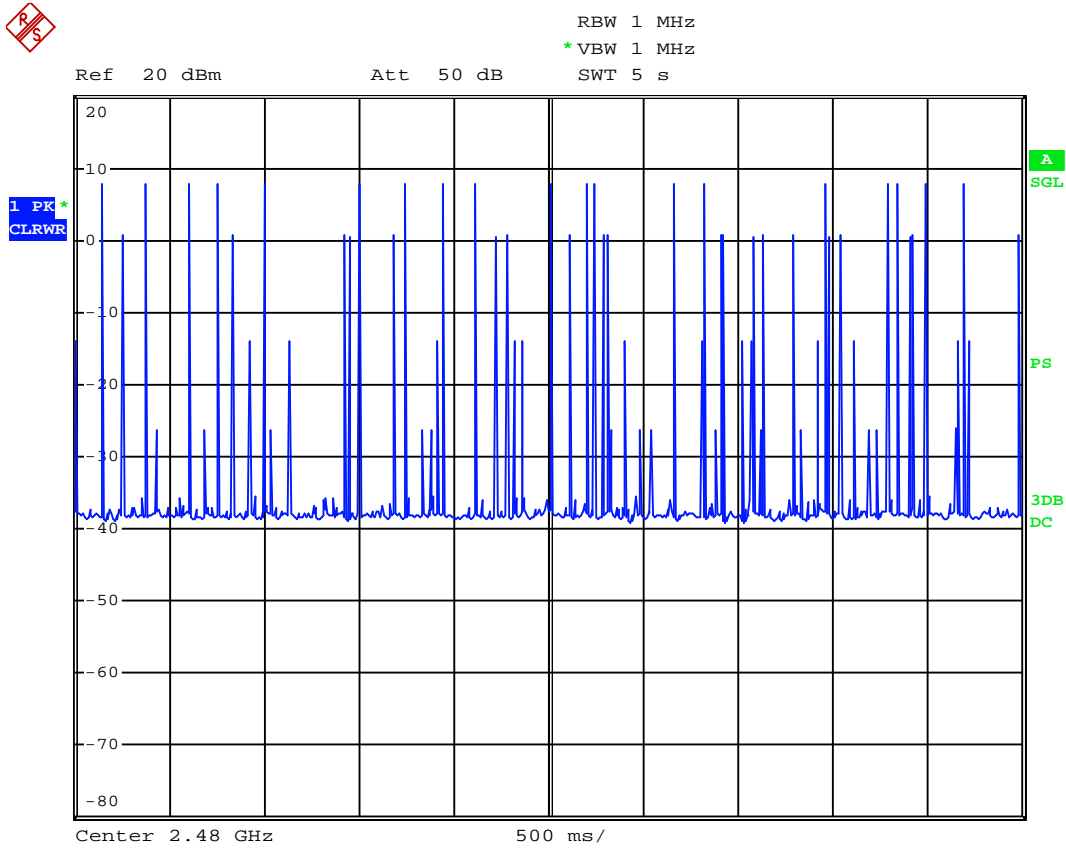
For Ch 78 2480MHz NON-EDR DH1



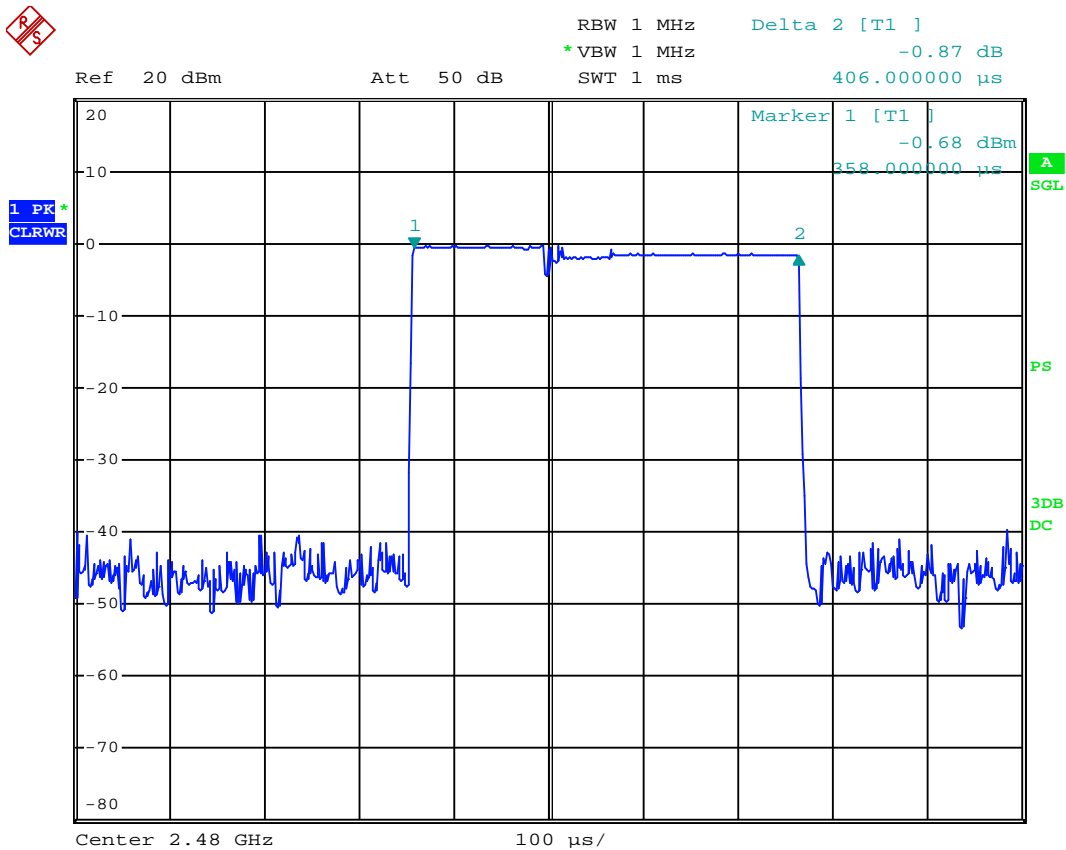
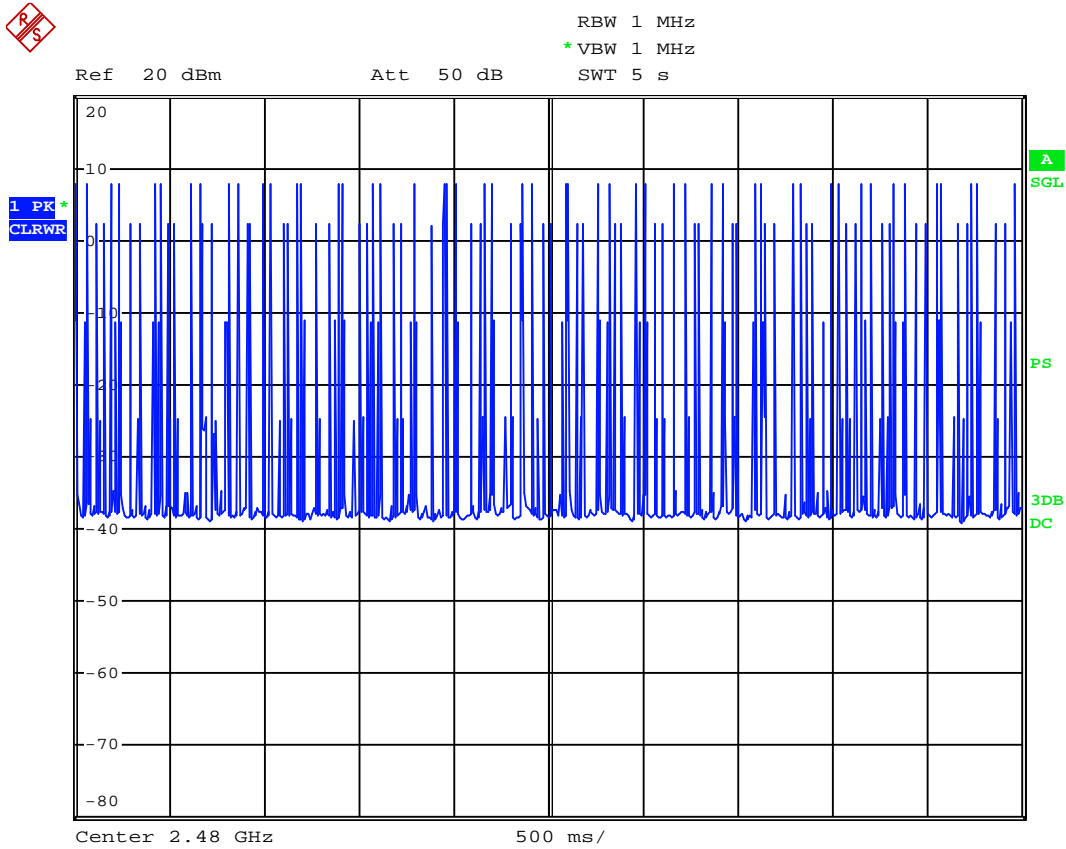
For Ch 78 2480MHz NON-EDR DH3



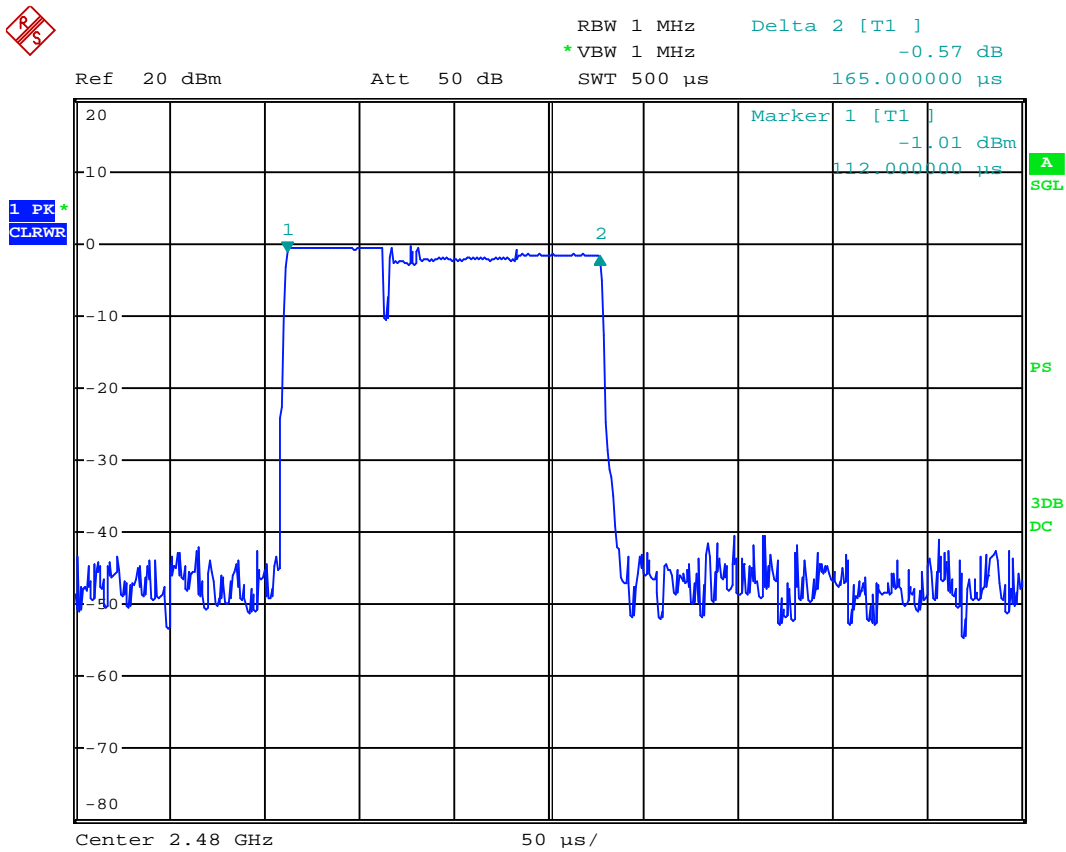
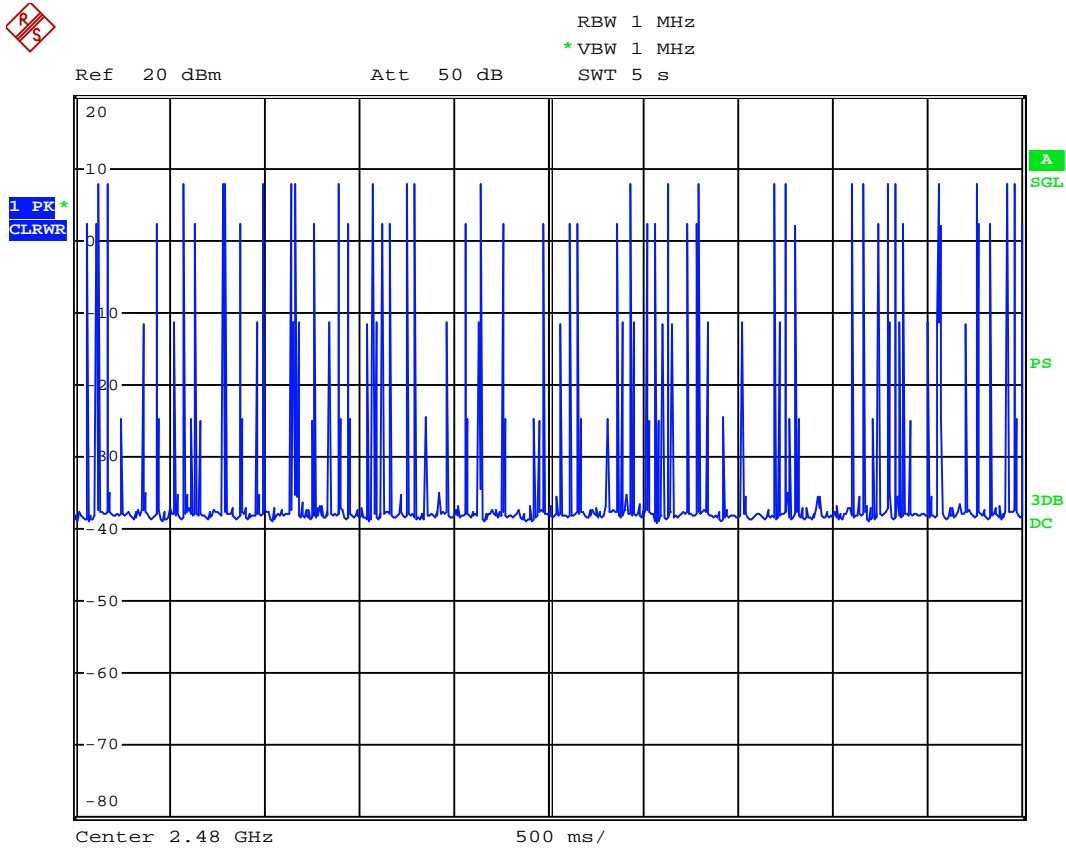
For Ch 78 2480MHz NON-EDR DH5



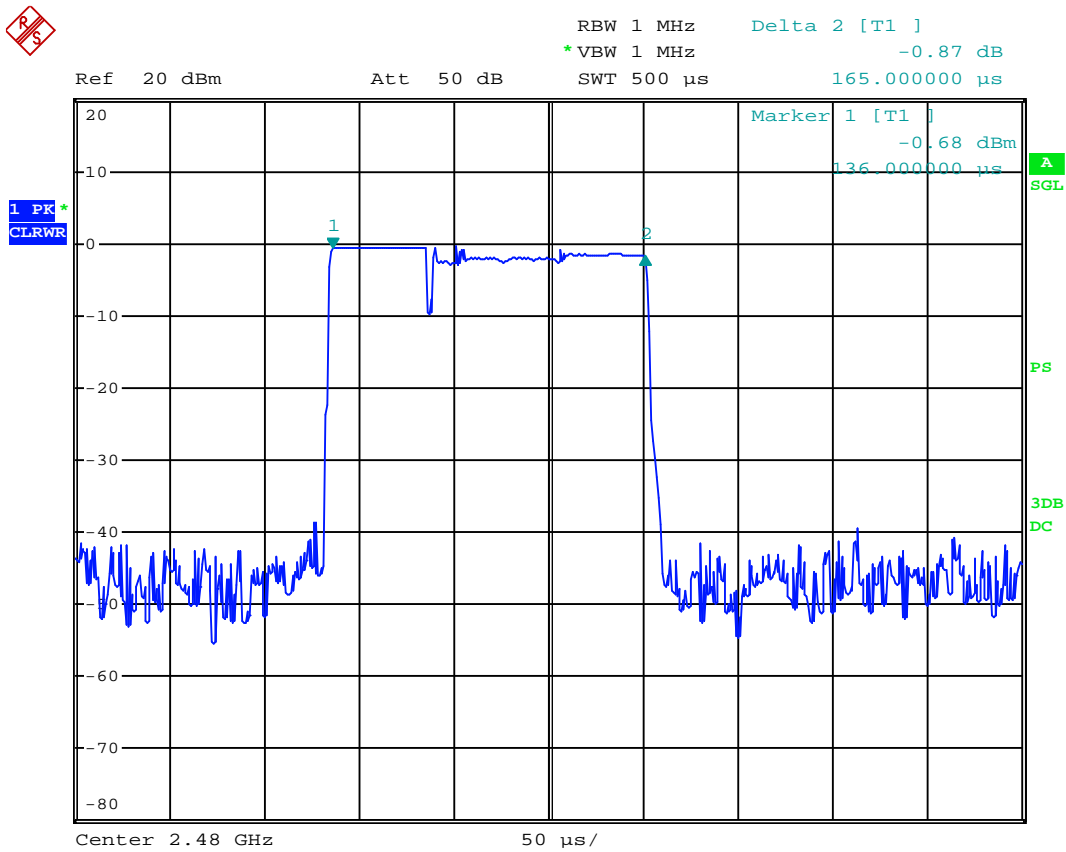
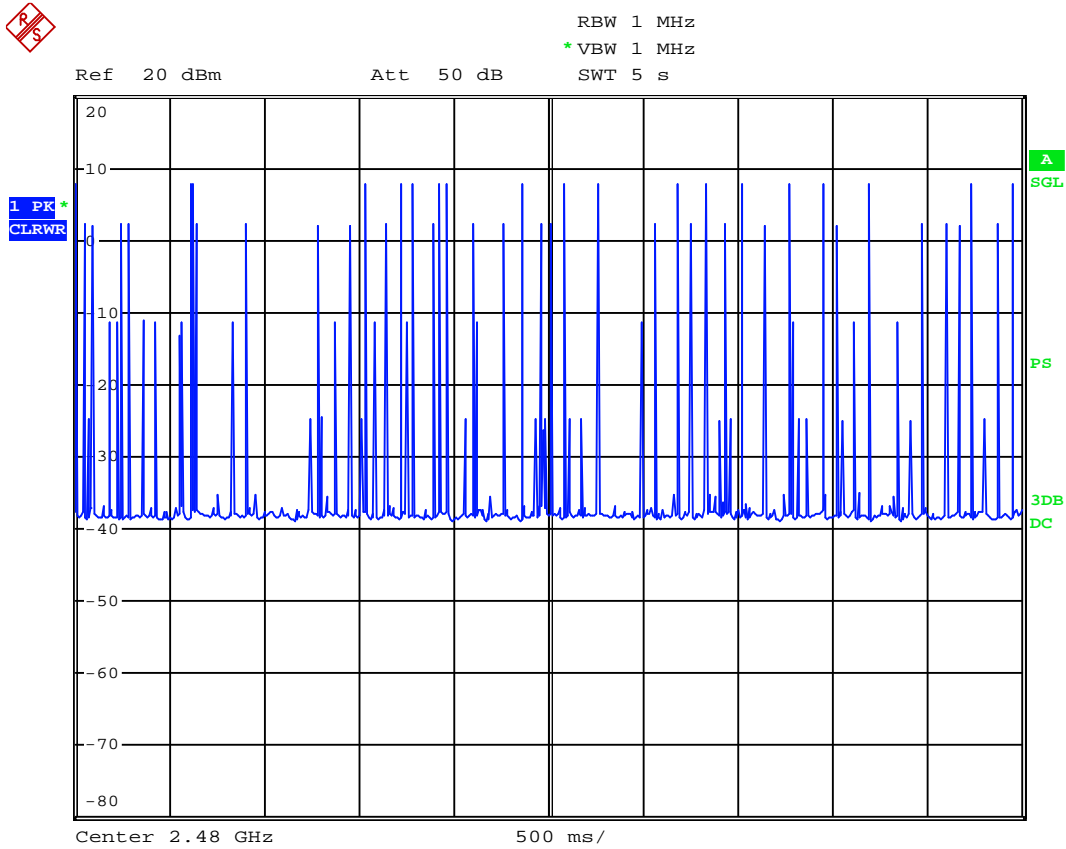
For Ch 78 2480MHz EDR DH1



For Ch 78 2480MHz EDR DH3



For Ch 78 2480MHz EDR DH5



11 DEVIATION TO TEST SPECIFICATIONS

None.