



## TEST REPORT

**Application No.:** SZEM1911019921CR  
**Applicant:** Pushd inc  
**Address of Applicant:** 50 ELDRIDGE STREET SUITE 5D NEW YORK United States 10002  
**Manufacturer:** JIANGXI JOYHONG TECHNOLOGY CO., LTD  
**Address of Manufacturer:** Tianji Photoelectric Industrial Park, Jinggangshan Economic-Technological Development Zone, Ji'an city, Jiangxi Province, China  
**Factory:** JIANGXI JOYHONG TECHNOLOGY CO., LTD  
**Address of Factory:** Tianji Photoelectric Industrial Park, Jinggangshan Economic-Technological Development Zone, Ji'an city, Jiangxi Province, China  
**Equipment Under Test (EUT):**  
**EUT Name:** Aura Frame-Smart digital photo frame  
**Model No.:** JD097W-C02  
**Trade mark:** AURA  
**FCC ID:** 2AI5H-W905  
**Standard(s) :** 47 CFR Part 15, Subpart C 15.247  
**Date of Receipt:** 2019-11-06  
**Date of Test:** 2019-11-27 to 2019-12-04  
**Date of Issue:** 2019-12-05

<b>Test Result:</b>	<b>Pass*</b>
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\* In the configuration tested, the EUT complied with the standards specified above.

Keny Xu

Keny Xu  
EMC Laboratory Manager



SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch EMC Laboratory

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2019-12-05		Original

<b>Authorized for issue by:</b>			
		 <hr/> <b>Bill Chen /Project Engineer</b>	
		 <hr/> <b>Eric Fu /Reviewer</b>	

## 2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart C 15.247	N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)	Pass
Other requirements Frequency Hopping Spread Spectrum System Hopping Sequence	47 CFR Part 15, Subpart C 15.247	N/A	47 CFR Part 15, Subpart C 15.247(a)(1),(g),(h)	Pass

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass
Conducted Peak Output Power	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.5	47 CFR Part 15, Subpart C 15.247(b)(1)	Pass
20dB Bandwidth	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.7	47 CFR Part 15, Subpart C 15.247(a)(1)	Pass
Carrier Frequencies Separation	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.2	47 CFR Part 15, Subpart C 15.247a(1)	Pass
Hopping Channel Number	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.3	47 CFR Part 15, Subpart C 15.247a(1)(iii)	Pass
Dwell Time	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.4	47 CFR Part 15, Subpart C 15.247a(1)(iii)	Pass
Conducted Band Edges Measurement	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.6	47 CFR Part 15, Subpart C 15.247(d)	Pass
Conducted Spurious Emissions	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.8	47 CFR Part 15, Subpart C 15.247(d)	Pass
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.4,6.5,6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass

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## 4 General Information

### 4.1 Details of E.U.T.

Power Supply:	Adapter: Model;SR-A30503000U2 Input:100-240VAC 50/60Hz 0.55A Max Output: DC 5V 3A
Cable:	DC cable: 200cm unshielded
Operation Frequency:	2402MHz to 2480MHz
Spectrum Spread Technology:	Frequency Hopping Spread Spectrum(FHSS)
Bluetooth Version:	V4.2
Modulation Type:	GFSK, $\pi$ /4DQPSK, 8DPSK
Number of Channels:	79
Channel Spacing:	1MHz
Antenna Type:	Integral
Antenna Gain:	2.01dBi

### Operation Frequency each of channel

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	20	2422MHz	40	2442MHz	60	2462MHz
1	2403MHz	21	2423MHz	41	2443MHz	61	2463MHz
2	2404MHz	22	2424MHz	42	2444MHz	62	2464MHz
3	2405MHz	23	2425MHz	43	2445MHz	63	2465MHz
4	2406MHz	24	2426MHz	44	2446MHz	64	2466MHz
5	2407MHz	25	2427MHz	45	2447MHz	65	2467MHz
6	2408MHz	26	2428MHz	46	2448MHz	66	2468MHz
7	2409MHz	27	2429MHz	47	2449MHz	67	2469MHz
8	2410MHz	28	2430MHz	48	2450MHz	68	2470MHz
9	2411MHz	29	2431MHz	49	2451MHz	69	2471MHz
10	2412MHz	30	2432MHz	50	2452MHz	70	2472MHz
11	2413MHz	31	2433MHz	51	2453MHz	71	2473MHz
12	2414MHz	32	2434MHz	52	2454MHz	72	2474MHz
13	2415MHz	33	2435MHz	53	2455MHz	73	2475MHz
14	2416MHz	34	2436MHz	54	2456MHz	74	2476MHz
15	2417MHz	35	2437MHz	55	2457MHz	75	2477MHz
16	2418MHz	36	2438MHz	56	2458MHz	76	2478MHz
17	2419MHz	37	2439MHz	57	2459MHz	77	2479MHz
18	2420MHz	38	2440MHz	58	2460MHz	78	2480MHz
19	2421MHz	39	2441MHz	59	2461MHz		

**Note:**

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Selected Test Channel	
Channel	Frequency
The lowest channel (CH0)	2402MHz
The middle channel (C39)	2441MHz
The highest channel (CH78)	2480MHz

## 4.2 Description of Support Units

The EUT has been tested as an independent unit.

## 4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	$\pm 7.25 \times 10^{-8}$
2	Duty cycle	$\pm 0.37\%$
3	Occupied Bandwidth	$\pm 3\%$
4	Conduction emission	$\pm 3.0\text{dB}$ (150kHz to 30MHz)
5	RF conducted power	$\pm 0.75\text{dB}$
6	RF power density	$\pm 2.84\text{dB}$
7	Conducted Spurious emissions	$\pm 0.75\text{dB}$
8	RF Radiated power	$\pm 4.5\text{dB}$ (Below 1GHz)
		$\pm 4.8\text{dB}$ (Above 1GHz)
9	Radiated Spurious emission test	$\pm 4.5\text{dB}$ (Below 1GHz)
		$\pm 4.8\text{dB}$ (Above 1GHz)
10	Temperature test	$\pm 1^\circ\text{C}$
11	Humidity test	$\pm 3\%$
12	Supply voltages	$\pm 1.5\%$
13	Time	$\pm 3\%$

#### 4.4 Test Location

All tests were performed at:

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No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

#### 4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

- **VCCI**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

- **FCC –Designation Number: CN1178**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

- **Innovation, Science and Economic Development Canada**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

#### 4.6 Deviation from Standards

None

#### 4.7 Abnormalities from Standard Conditions

None



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## 5 Equipment List

Conducted Emissions at AC Power Line (150kHz-30MHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2019-06-13	2022-06-12
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2019-07-11	2020-07-10
LISN	Rohde & Schwarz	ENV216	SEM007-01	2019-09-24	2020-09-23
LISN	ETS-LINDGREN	3816/2	SEM007-02	2019-04-01	2020-03-31
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2019-04-01	2020-03-31

RF Conducted					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Zhao Xin	KXN-6020D	SEM011-08	2019-09-24	2020-09-23
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2019-09-24	2020-09-23
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2019-07-11	2020-07-10
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019-09-24	2020-09-23
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019-09-24	2020-09-23
Electric and Magnetic Field Analyzer	Narda	NBM-550/EHP-50F	EMC2143	2018-02-07	2020-02-06
Electric Field Probe (100KHz-3GHz)	WANDEL & GOLTERMANN	EMR-20	EMC0907	2019-05-21	2020-05-20
EMF Tester	Narda	ELT-400	SZE039-4	2019-07-08	2020-07-07

Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018-03-13	2021-03-12
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2019-07-11	2020-07-10
EXA Spectrum Analyzer	Agilent Technologies Inc	N9010A	SEM004-12	2019-04-12	2020-04-11
Horn Antenna (1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12
Horn Antenna (15GHz-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2017-10-17	2020-10-16



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Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2019-09-24	2020-09-23
Pre-amplifier (18-26GHz)	Rohde & Schwarz	CH14-H052	SEM005-17	2019-04-01	2020-03-31
Pre-amplifier (26GHz-40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2019-04-01	2020-03-31
DC Power Supply	Zhao Xin	KXN-6020D	SEM011-08	2019-09-24	2020-09-23
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2017-08-22	2020-08-21

RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date	Cal. Due date
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2017-08-05	2020-08-04
MXE EMI Receiver (20Hz-8.4GHz)	Agilent Technologies	N9038A	SEM004-05	2019-09-24	2020-09-23
BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEM003-01	2017-06-27	2020-06-26
Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEM005-01	2019-04-01	2020-03-31
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2019-07-11	2020-07-10



Radiated Spurious Emissions					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018-03-13	2021-03-12
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2019-07-11	2020-07-10
EXA Spectrum Analyzer	Agilent Technologies Inc	N9010A	SEM004-12	2019-04-12	2020-04-11
Horn Antenna (1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12
Horn Antenna (15GHz-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2017-10-17	2020-10-16
Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2019-09-24	2020-09-23
Pre-amplifier (18-26GHz)	Rohde & Schwarz	CH14-H052	SEM005-17	2019-04-01	2020-03-31
Pre-amplifier (26GHz-40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2019-04-01	2020-03-31
DC Power Supply	Zhao Xin	KXN-6020D	SEM011-08	2019-09-24	2020-09-23
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2017-08-22	2020-08-21

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-03	2019-09-26	2020-09-25
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2019-09-26	2020-09-25
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2019-09-26	2020-09-25
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2019-04-04	2020-04-03



## 6 Radio Spectrum Technical Requirement

### 6.1 Antenna Requirement

#### 6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)

#### 6.1.2 Conclusion

Standard Requirement:

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

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 2.01dBi.

Antenna location: Refer to Internal photos



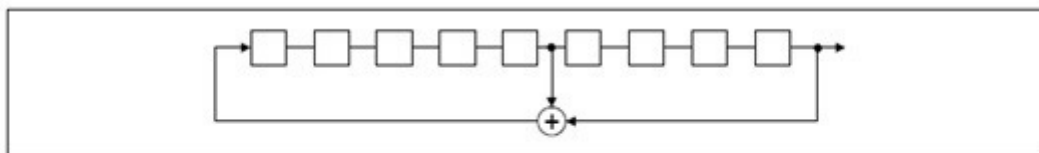
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## 6.2 Other requirements Frequency Hopping Spread Spectrum System Hopping Sequence

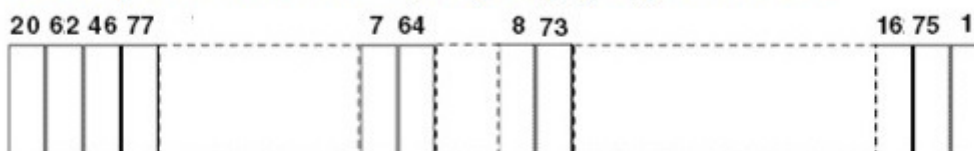
### 6.2.1 Test Requirement:

47 CFR Part 15, Subpart C 15.247(a)(1),(g),(h)



*Linear Feedback Shift Register for Generation of the PRBS sequence*

An example of Pseudorandom Frequency Hopping Sequence as follow:



### 6.2.2 Conclusion

Standard Requirement:

The system shall hop to channel frequencies that are selected at the system hopping rate from a Pseudorandom ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

Frequency hopping spread spectrum systems are not required to employ all available hopping channels during each transmission. However, the system, consisting of both the transmitter and the receiver, must be designed to comply with all of the regulations in this section should the transmitter be presented with a continuous data (or information) stream. In addition, a system employing short transmission bursts must comply with the definition of a frequency hopping system and must distribute its transmissions over the minimum number of hopping channels specified in this section.

The incorporation of intelligence within a frequency hopping spread spectrum system that permits the system to recognize other users within the spectrum band so that it individually and independently chooses and adapts its hopsets to avoid hopping on occupied channels is permitted. The coordination of frequency hopping systems in any other manner for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters is not permitted.

Compliance for section 15.247(a)(1):

According to Technical Specification, the pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first ONE of 9 consecutive ONES; i.e. the shift register is initialized with nine ones.

Number of shift register stages: 9

Length of pseudo-random sequence:  $2^9 - 1 = 511$  bits



Longest sequence of zeros: 8 (non-inverted signal)

Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:

Each frequency used equally on the average by each transmitter.

According to Technical Specification, the receivers are designed to have input and IF bandwidths that match the hopping channel bandwidths of any transmitters and shift frequencies in synchronization with the transmitted signals.

Compliance for section 15.247(g):

According to Technical Specification, the system transmits the packet with the pseudorandom hopping frequency with a continuous data and the short burst transmission from the Bluetooth system is also transmitted under the frequency hopping system with the pseudorandom hopping frequency system.

Compliance for section 15.247(h):

According to Technical specification, the system incorporates with an adaptive system to detect other user within the spectrum band so that it individually and independently to avoid hopping on the occupied channels.

The system is designed not have the ability to coordinated with other FHSS System in an effort to avoid the simultaneous occupancy of individual hopping frequencies by multiple transmitter.



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## 7 Radio Spectrum Matter Test Results

### 7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.207  
Test Method: ANSI C63.10 (2013) Section 6.2  
Limit:

Frequency of emission(MHz)	Conducted limit(dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

\*Decreases with the logarithm of the frequency.

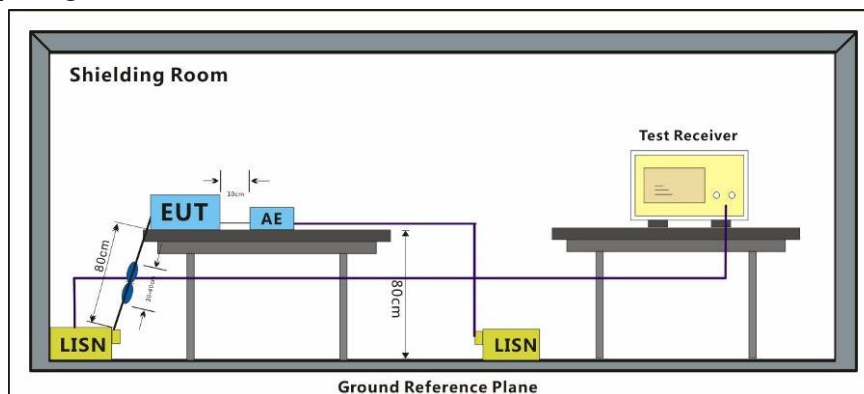


### 7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 21.9 °C Humidity: 53.1 % RH Atmospheric Pressure: 1020 mbar  
Test mode b:TX\_non-Hop mode\_Keep the EUT in continuously transmitting mode with GFSK modulation,  $\pi/4$ DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

### 7.1.2 Test Setup Diagram



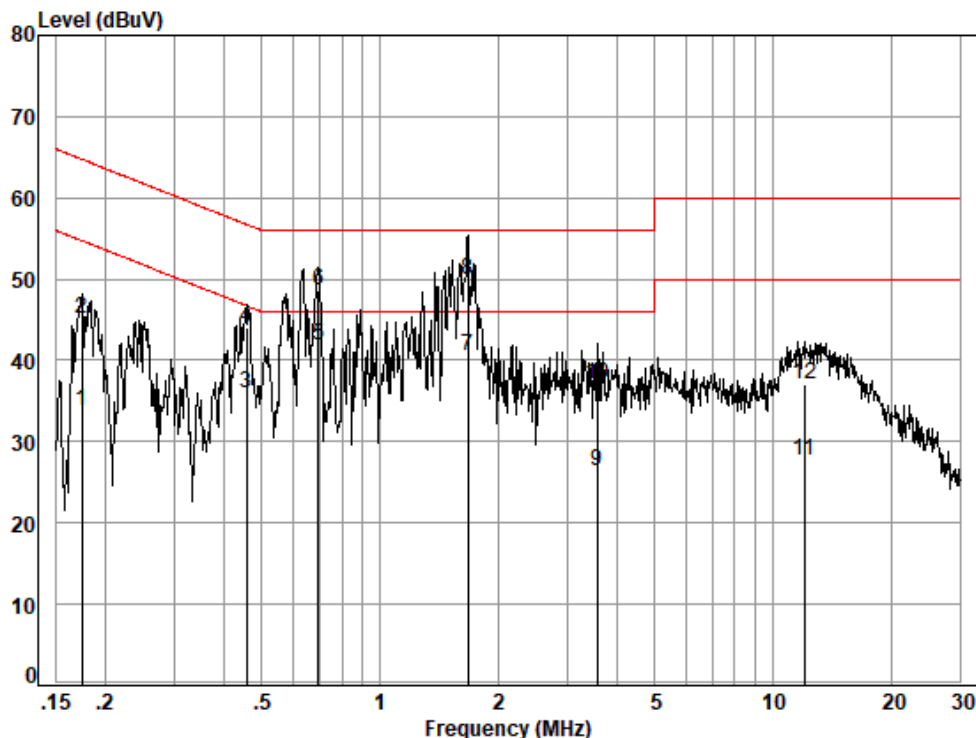
### 7.1.3 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50μH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark: LISN=Read Level+ Cable Loss+ LISN Factor



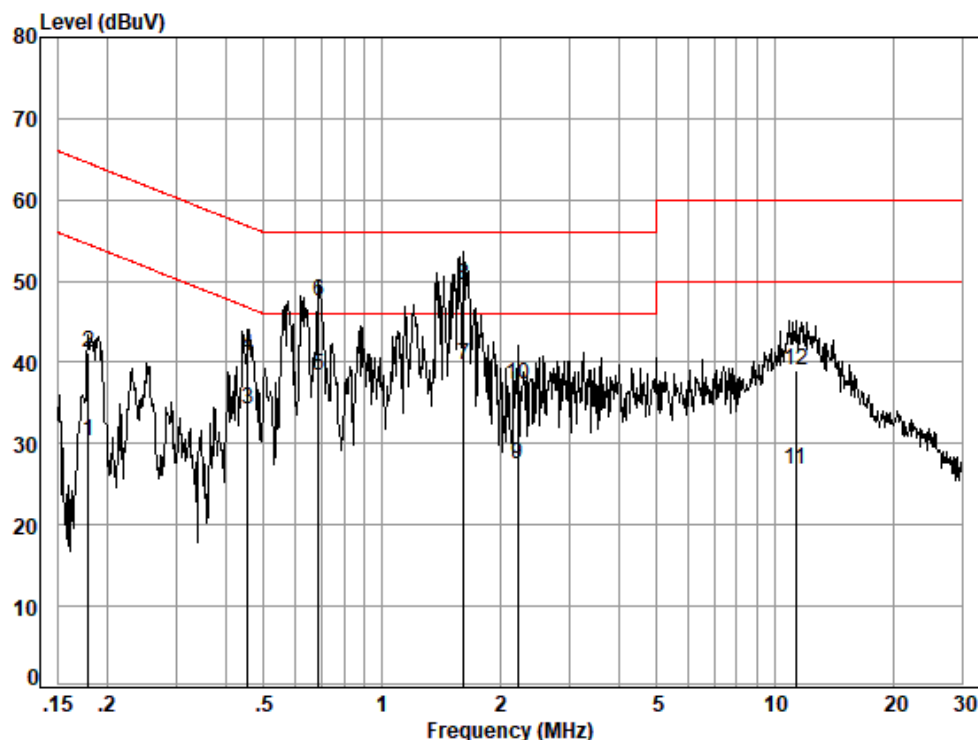
Mode:b; Line:Live Line



Site : Shielding Room  
Condition: Line  
Job No. : 19921CR  
Test mode: b

	Freq	Cable Loss	LISN Factor	Read Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dB	
1	0.17	0.02	9.49	24.29	33.80	54.77	-20.97 Average
2	0.17	0.02	9.49	35.72	45.23	64.77	-19.54 QP
3	0.46	0.06	9.59	26.27	35.92	46.71	-10.79 Average
4	0.46	0.06	9.59	34.49	44.14	56.71	-12.57 QP
5	0.70	0.07	9.63	32.08	41.78	46.00	-4.22 Average
6	0.70	0.07	9.63	38.90	48.60	56.00	-7.40 QP
7	1.67	0.14	9.64	30.84	40.62	46.00	-5.38 Average
8	1.67	0.14	9.64	40.23	50.01	56.00	-5.99 QP
9	3.57	0.16	9.68	16.57	26.41	46.00	-19.59 Average
10	3.57	0.16	9.68	27.31	37.15	56.00	-18.85 QP
11	12.06	0.19	9.85	17.74	27.78	50.00	-22.22 Average
12	12.06	0.19	9.85	27.10	37.14	60.00	-22.86 QP

Mode:b; Line:Neutral Line



Site : Shielding Room  
Condition: Neutral  
Job No. : 19921CR  
Test mode: b

	Freq	Cable Loss	LISN Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.18	0.02	9.44	20.84	30.30	54.55	-24.25	Average
2	0.18	0.02	9.44	31.79	41.25	64.55	-23.30	QP
3	0.46	0.06	9.56	24.53	34.15	46.76	-12.61	Average
4	0.46	0.06	9.56	31.19	40.81	56.76	-15.95	QP
5	0.69	0.07	9.62	28.78	38.47	46.00	-7.53	Average
6	0.69	0.07	9.62	37.82	47.51	56.00	-8.49	QP
7	1.62	0.14	9.69	29.82	39.65	46.00	-6.35	Average
8	1.62	0.14	9.69	39.71	49.54	56.00	-6.46	QP
9	2.21	0.16	9.70	17.62	27.48	46.00	-18.52	Average
10	2.21	0.16	9.70	27.36	37.22	56.00	-18.78	QP
11	11.32	0.18	9.92	16.64	26.74	50.00	-23.26	Average
12	11.32	0.18	9.92	28.97	39.07	60.00	-20.93	QP

## 7.2 Conducted Peak Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(1)  
Test Method: ANSI C63.10 (2013) Section 7.8.5  
Limit:  $\leq 20.97\text{dBm}$



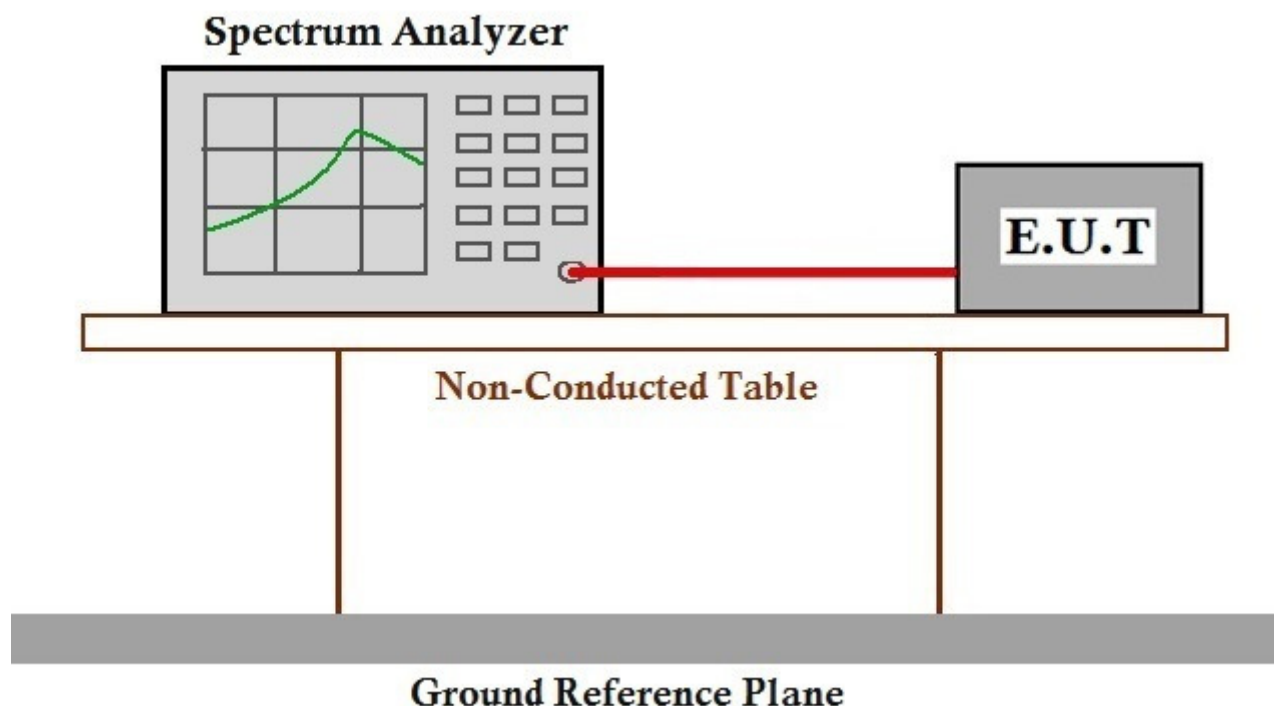
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### 7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C Humidity: 42.5 % RH Atmospheric Pressure: 1020 mbar  
Test mode b:TX\_non-Hop mode\_Keep the EUT in continuously transmitting mode with GFSK modulation,  $\pi/4$ DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

### 7.2.2 Test Setup Diagram



### 7.2.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



### 7.3 20dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247(a)(1)  
Test Method: ANSI C63.10 (2013) Section 7.8.7

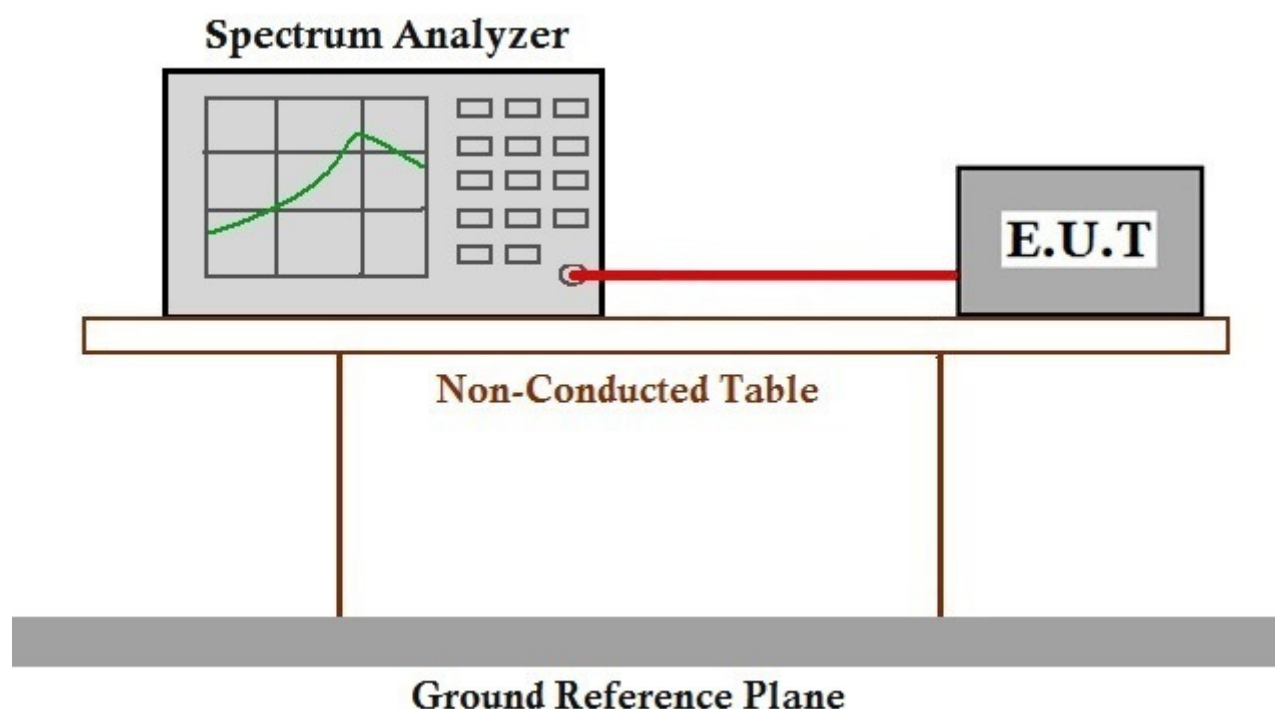
#### 7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C Humidity: 42.6 % RH Atmospheric Pressure: 1020 mbar

Test mode b:TX\_non-Hop mode\_Keep the EUT in continuously transmitting mode with GFSK modulation,  $\pi/4$ DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

#### 7.3.2 Test Setup Diagram



#### 7.3.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247

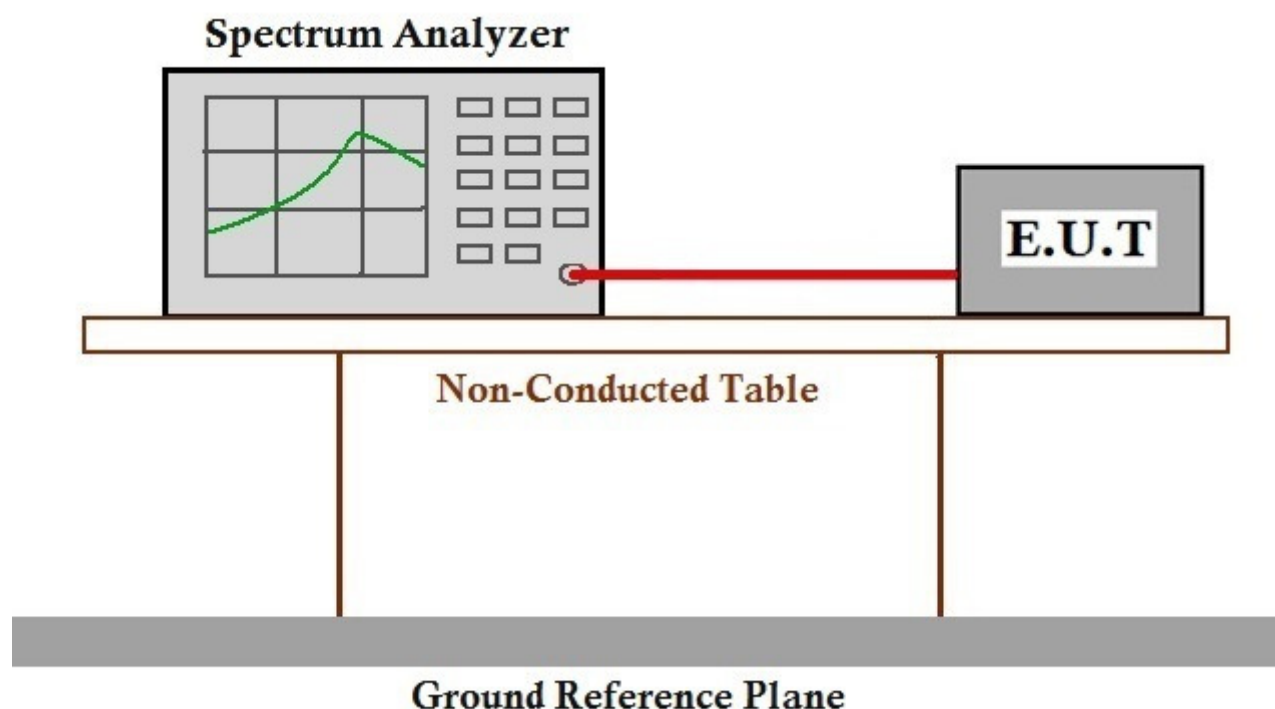
## 7.4 Carrier Frequencies Separation

Test Requirement 47 CFR Part 15, Subpart C 15.247a(1)  
Test Method: ANSI C63.10 (2013) Section 7.8.2  
Limit: 2/3 of the 20dB bandwidth base on the transmission power is less than 0.125W

### 7.4.1 E.U.T. Operation

Operating Environment:  
Temperature: 23.6 °C Humidity: 42.5 % RH Atmospheric Pressure: 1020 mbar  
Test mode a:TX\_Hop mode\_Keep the EUT in frequency hopping mode with GFSK modulation,  $\pi/4$ DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

### 7.4.2 Test Setup Diagram



### 7.4.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247

## 7.5 Hopping Channel Number

Test Requirement 47 CFR Part 15, Subpart C 15.247a(1)(iii)  
Test Method: ANSI C63.10 (2013) Section 7.8.3  
Limit:

Frequency range(MHz)	Number of hopping channels (minimum)
902-928	50 for 20dB bandwidth <250kHz
	25 for 20dB bandwidth ≥250kHz
2400-2483.5	15
5725-5850	75

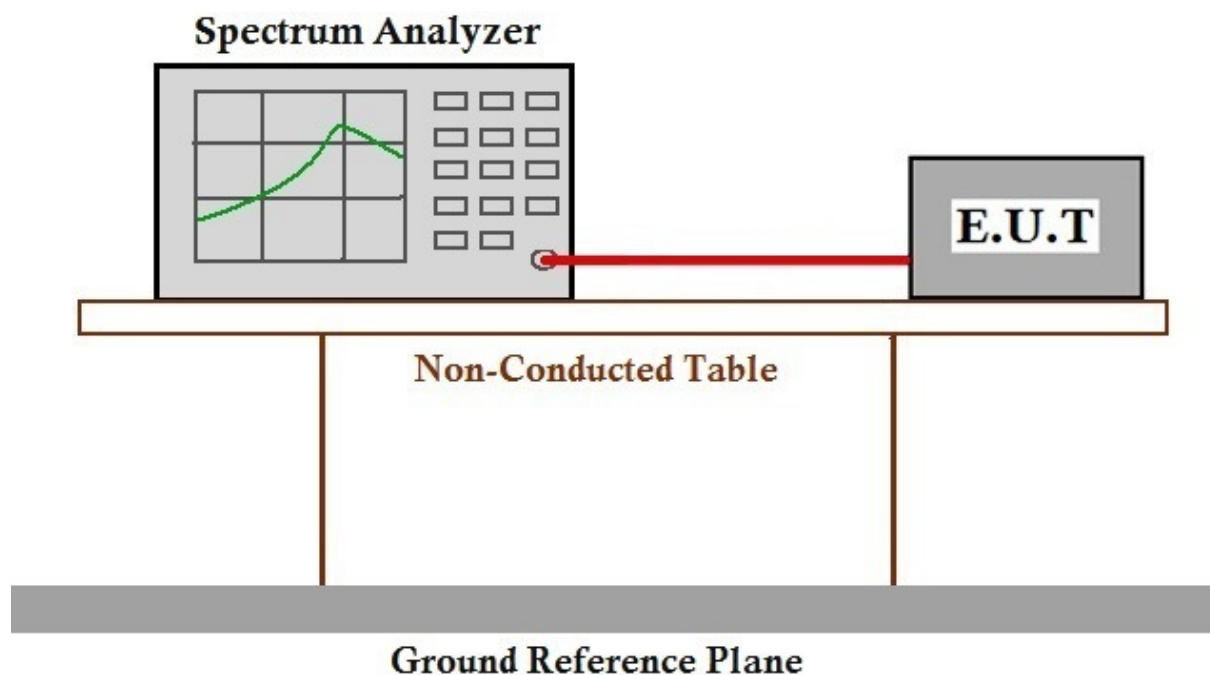
### 7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C Humidity: 42.4 % RH Atmospheric Pressure: 1020 mbar

Test mode a:TX\_Hop mode\_Keep the EUT in frequency hopping mode with GFSK modulation,  $\pi/4$ DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

### 7.5.2 Test Setup Diagram



### 7.5.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247

## 7.6 Dwell Time

Test Requirement 47 CFR Part 15, Subpart C 15.247a(1)(iii)  
Test Method: ANSI C63.10 (2013) Section 7.8.4  
Limit:

Frequency(MHz)	Limit
902-928	0.4S within a 20S period(20dB bandwidth<250kHz)
	0.4S within a 10S period(20dB bandwidth≥250kHz)
2400-2483.5	0.4S within a period of 0.4S multiplied by the number of hopping channels
5725-5850	0.4S within a 30S period

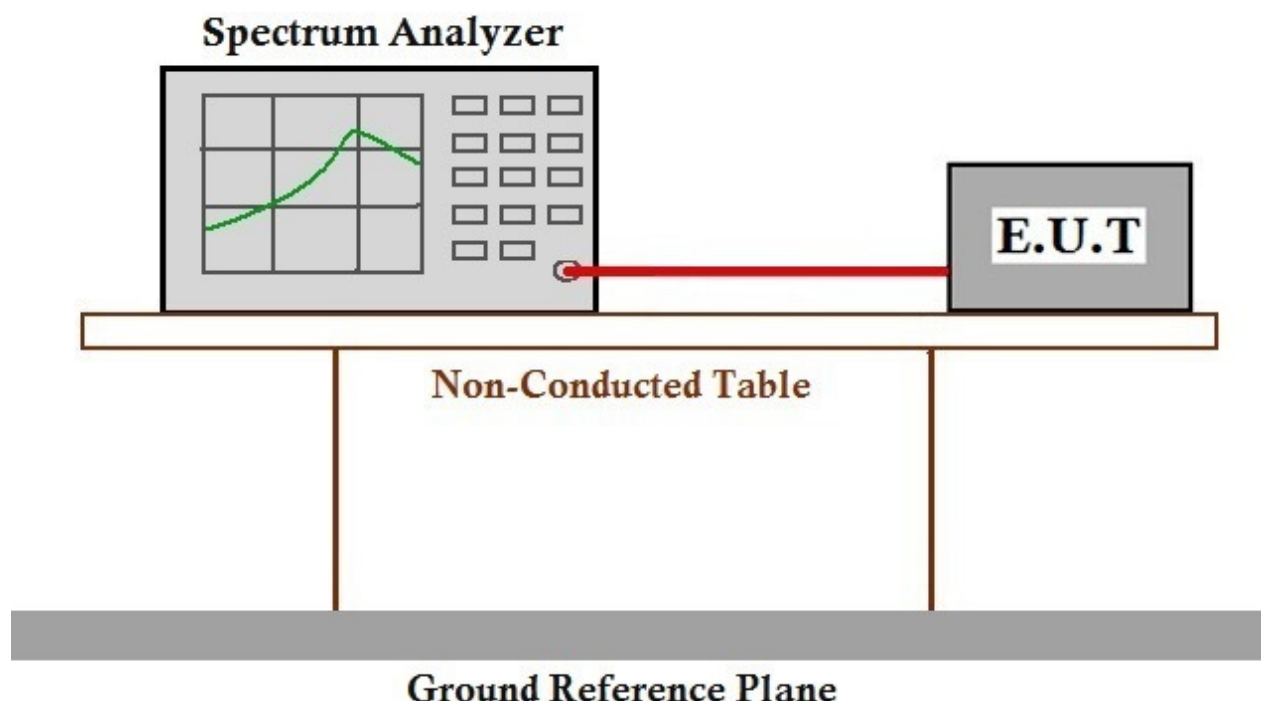
### 7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C Humidity: 42.4 % RH Atmospheric Pressure: 1020 mbar

Test mode a:TX\_Hop mode\_Keep the EUT in frequency hopping mode with GFSK modulation,  $\pi/4$ DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

### 7.6.2 Test Setup Diagram



### 7.6.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



## 7.7 Conducted Band Edges Measurement

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)

Test Method: ANSI C63.10 (2013) Section 7.8.6

Limit: 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. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c))

### 7.7.1 E.U.T. Operation

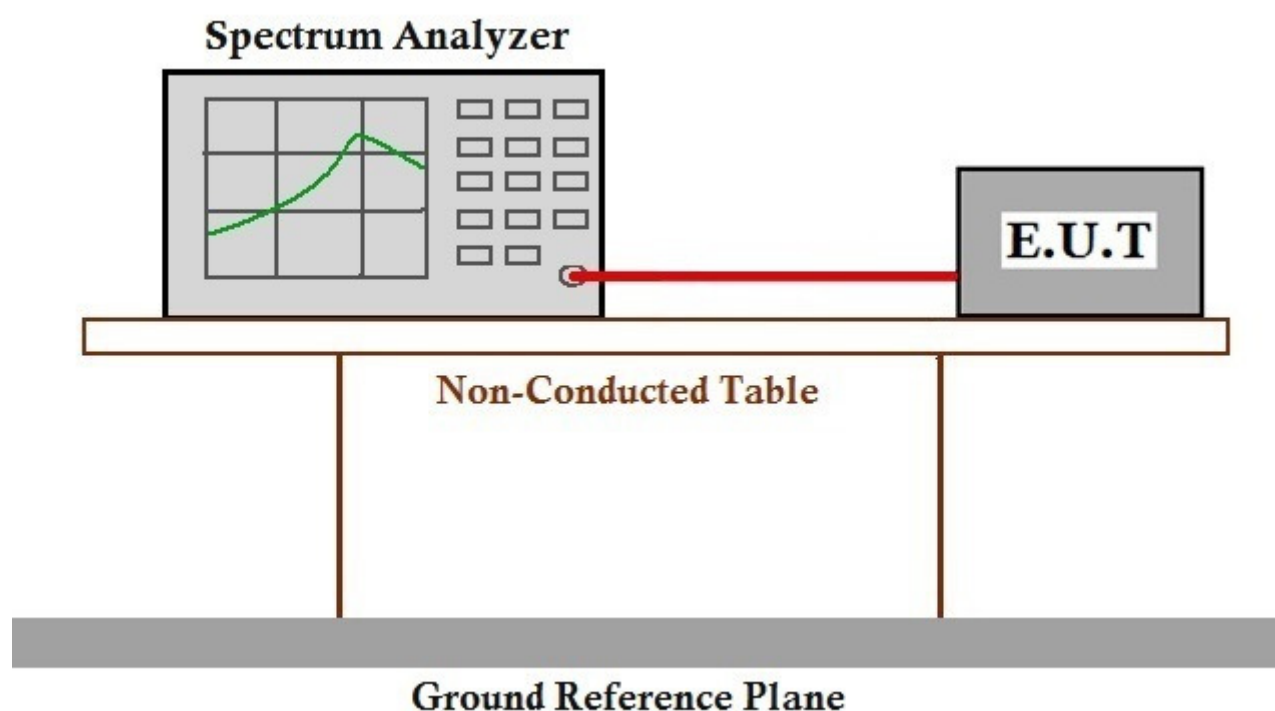
Operating Environment:

Temperature: 23.6 °C Humidity: 42.3 % RH Atmospheric Pressure: 1020 mbar

Test mode: a:TX\_Hop mode\_Keep the EUT in frequency hopping mode with GFSK modulation,  $\pi/4$ DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

b:TX\_non-Hop mode\_Keep the EUT in continuously transmitting mode with GFSK modulation,  $\pi/4$ DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

### 7.7.2 Test Setup Diagram



### 7.7.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247

## 7.8 Conducted Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)

Test Method: ANSI C63.10 (2013) Section 7.8.8

Limit: 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. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c))



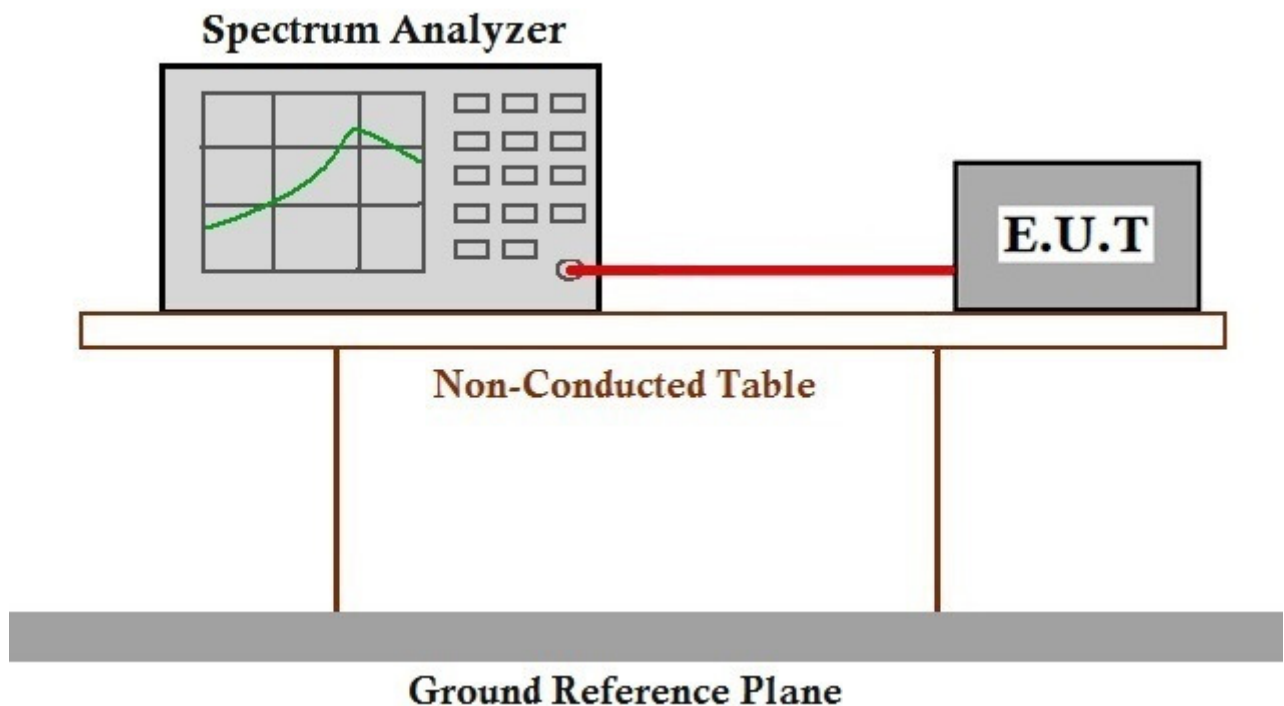
### 7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C Humidity: 42.4 % RH Atmospheric Pressure: 1020 mbar

Test mode b:TX\_non-Hop mode\_Keep the EUT in continuously transmitting mode with GFSK modulation,  $\pi/4$ DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

### 7.8.2 Test Setup Diagram



### 7.8.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247





## 7.9 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209  
Test Method: ANSI C63.10 (2013) Section 6.10.5  
Measurement Distance: 3m  
Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

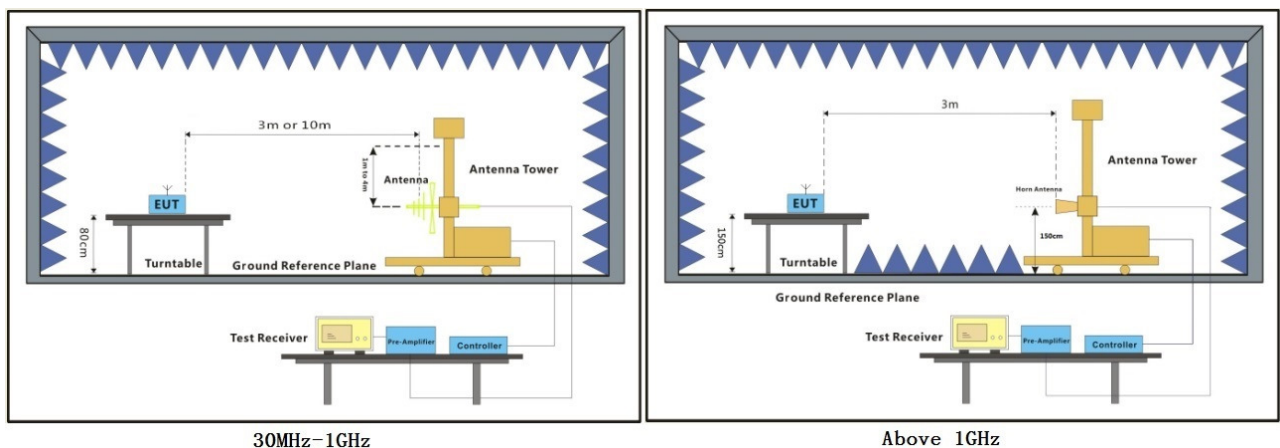
### 7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 22.7 °C Humidity: 56.4 % RH Atmospheric Pressure: 1020 mbar

Test mode b:TX\_non-Hop mode\_Keep the EUT in continuously transmitting mode with GFSK modulation,  $\pi/4$ DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

### 7.9.2 Test Setup Diagram





### 7.9.3 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

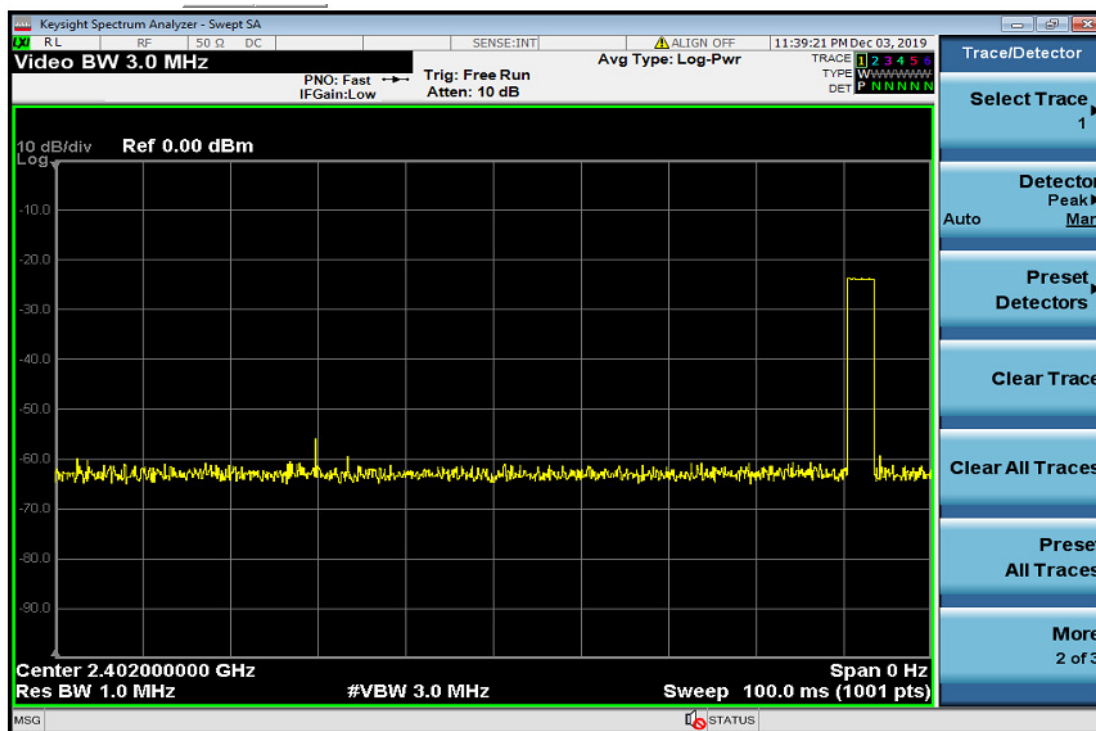


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Average value:

Calculate Formula:	Average value=Peak value + PDCF
	PDCF=20 log(Duty cycle)
	Duty cycle= T on time / T period
Test data:	Ton time =2.917ms
	T period =100ms
	PDCF value= -30.7dB

Duty cycle test plots:

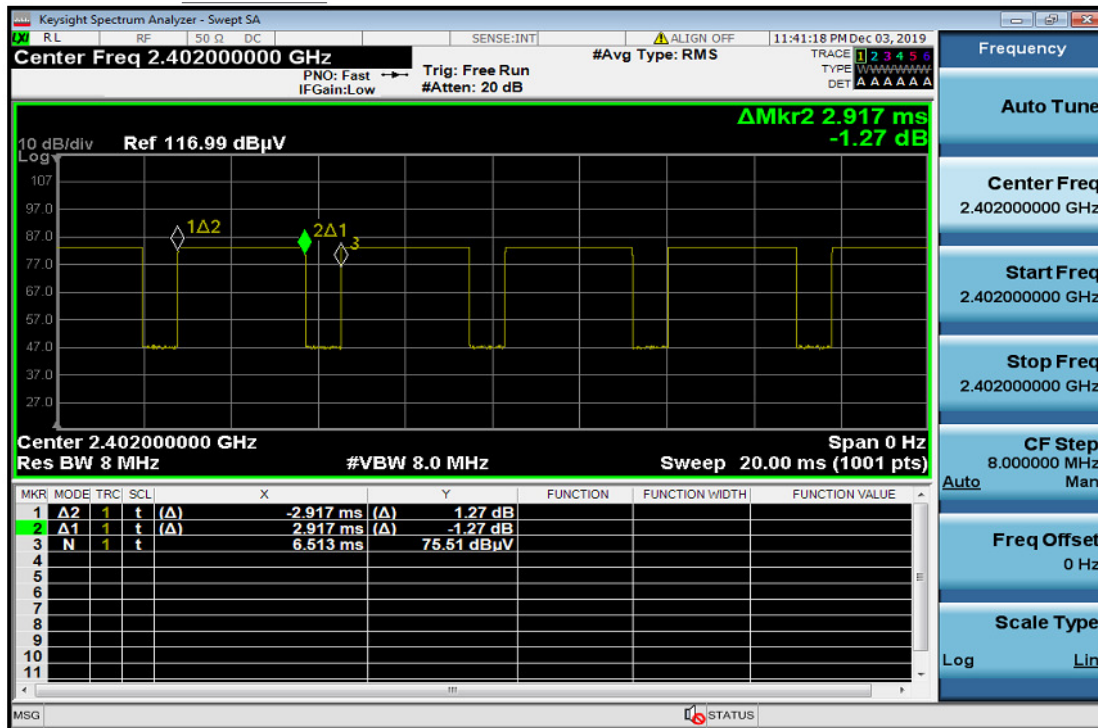


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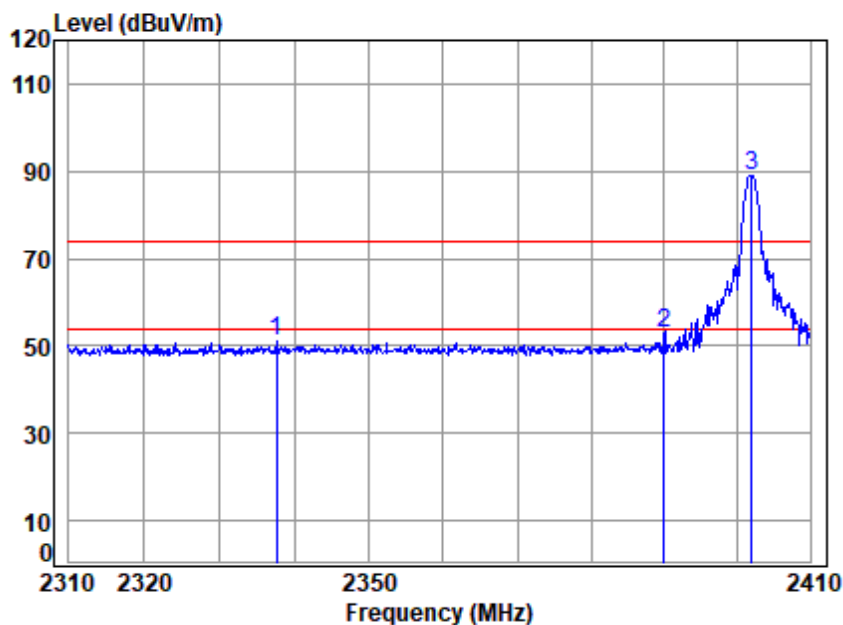
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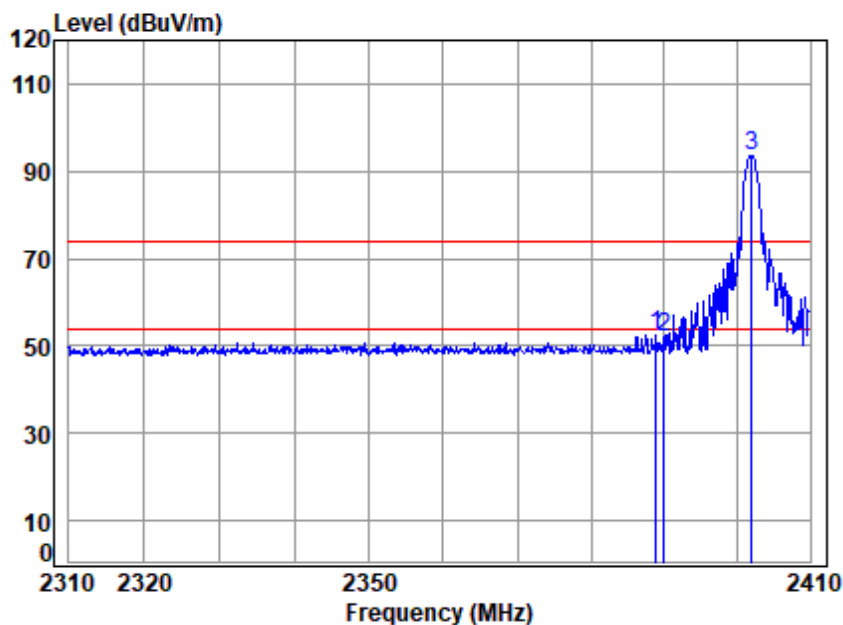
Mode:b; Polarization:Horizontal; Modulation:GFSK; ; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 19921CR  
Mode : 2402 Band edge  
Note : BT

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2337.574	5.40	28.43	40.95	58.29	51.17	74.00	-22.83	peak
2	2390.000	5.47	28.52	40.97	59.98	53.00	74.00	-21.00	peak
3 *	2402.000	5.49	28.54	40.98	96.01	89.06	74.00	15.06	peak

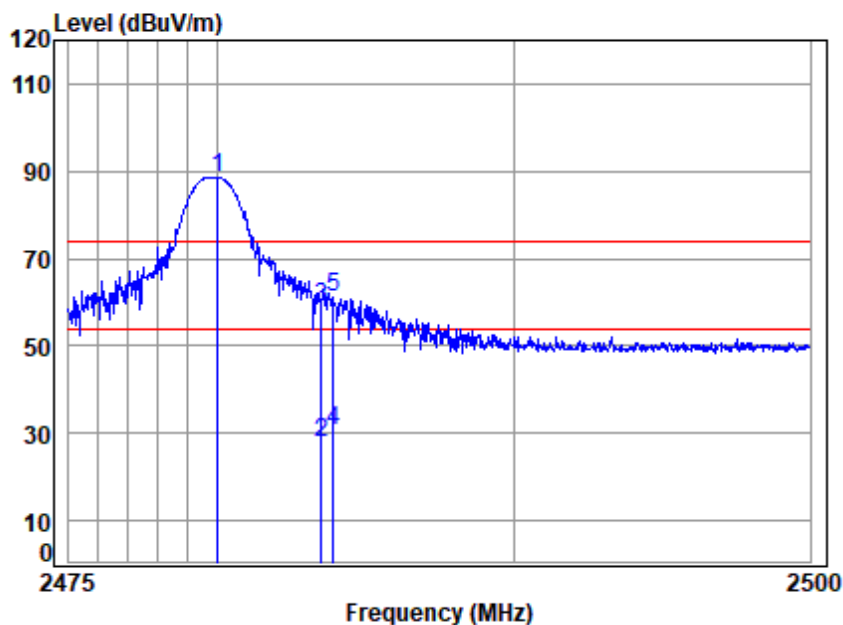
Mode:b; Polarization:Vertical; Modulation:GFSK; ; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 19921CR  
Mode : 2402 Band edge  
Note : BT

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2388.850	5.47	28.52	40.97	59.57	52.59	74.00	-21.41 peak
2	2390.000	5.47	28.52	40.97	59.08	52.10	74.00	-21.90 peak
3 *	2402.000	5.49	28.54	40.98	100.33	93.38	74.00	19.38 peak

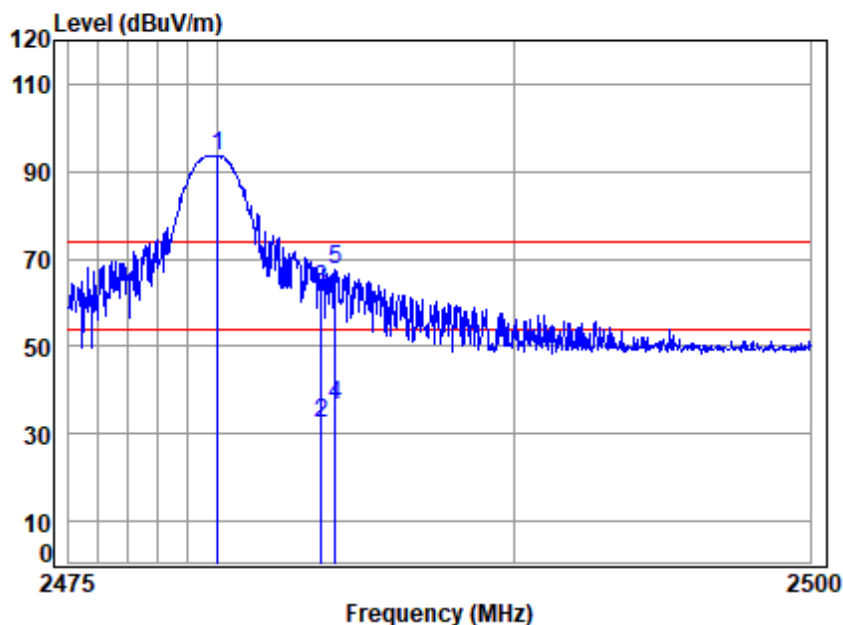
Mode:b; Polarization:Horizontal; Modulation:GFSK; ; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 19921CR  
Mode : 2480 Band edge  
Note : BT

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 *	2480.000	5.59	28.67	41.01	95.43	88.68	74.00	14.68	peak
2	2483.500	5.60	28.67	41.01	34.71	27.97	54.00	-26.03	Average
3	2483.500	5.60	28.67	41.01	65.41	58.67	74.00	-15.33	peak
4	2483.896	5.60	28.67	41.01	37.26	30.52	54.00	-23.48	Average
5	2483.896	5.60	28.67	41.01	67.96	61.22	74.00	-12.78	peak

Mode:b; Polarization:Vertical; Modulation:GFSK; ; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 19921CR  
Mode : 2480 Band edge  
Note : BT

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 *	2480.000	5.59	28.67	41.01	100.49	93.74	74.00	19.74	peak
2	2483.500	5.60	28.67	41.01	39.21	32.47	54.00	-21.53	Average
3	2483.500	5.60	28.67	41.01	69.91	63.17	74.00	-10.83	peak
4	2483.946	5.60	28.67	41.01	43.46	36.72	54.00	-17.28	Average
5	2483.946	5.60	28.67	41.01	74.16	67.42	74.00	-6.58	peak





## 7.10 Radiated Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209  
Test Method: ANSI C63.10 (2013) Section 6.4,6.5,6.6  
Measurement Distance: 3m  
Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.



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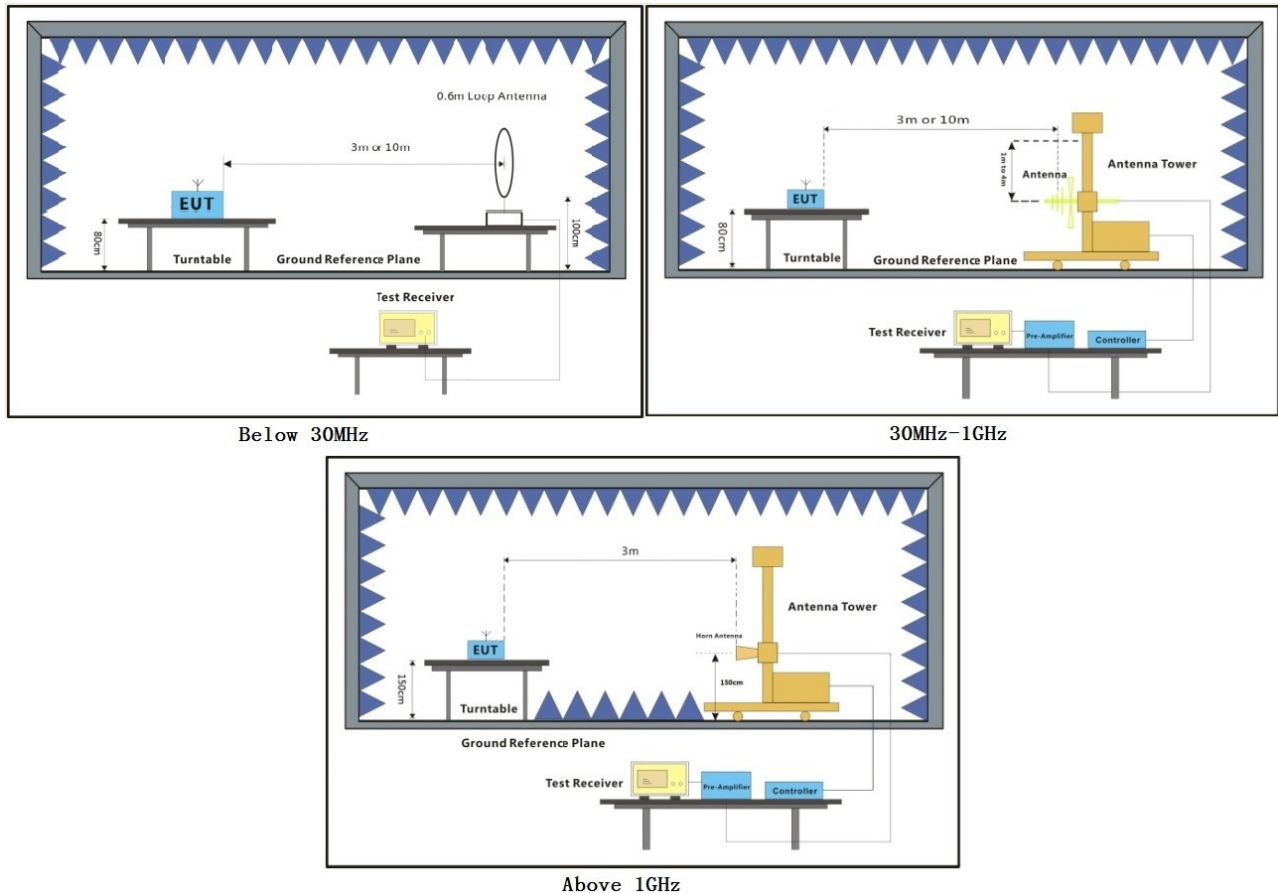
### 7.10.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 51 % RH Atmospheric Pressure: 1020 mbar

Test mode b:TX\_non-Hop mode\_Keep the EUT in continuously transmitting mode with GFSK modulation,  $\pi/4$ DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

### 7.10.2 Test Setup Diagram



### 7.10.3 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

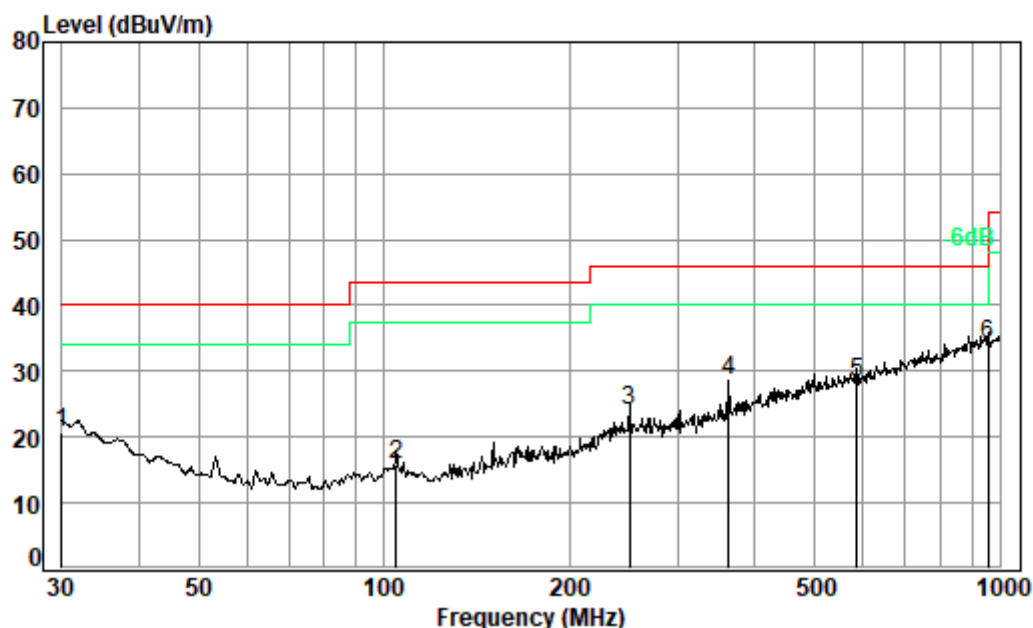
#### Remark:

- 1) For emission below 1GHz, through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.
- 2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:  
Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor
- 3) Scan from 9kHz to 25GHz, the disturbance above 18GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 4) For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

30MHz~1GHz

QP value:

Mode: b; Polarization: Horizontal



Condition: 3m HORIZONTAL

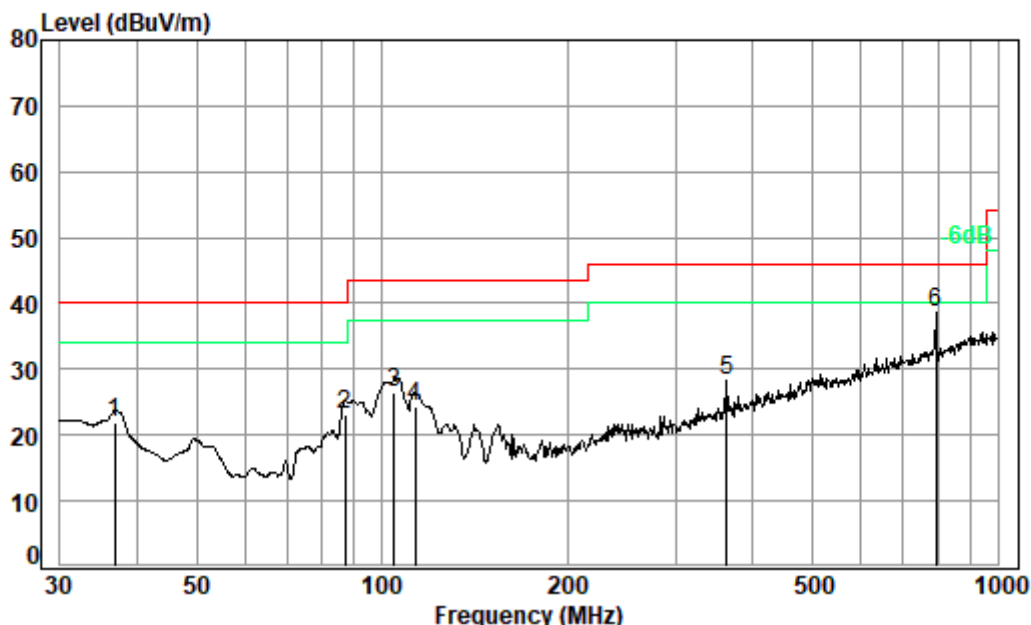
Job No. : 19921CR

Test Mode: b

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.00	0.60	22.50	27.73	25.22	20.59	40.00	-19.41
2	104.54	1.21	13.78	27.61	28.52	15.90	43.50	-27.60
3	250.30	1.68	18.96	27.01	30.33	23.96	46.00	-22.04
4	362.98	2.10	21.45	27.24	32.33	28.64	46.00	-17.36
5	586.84	2.69	26.36	28.13	27.40	28.32	46.00	-17.68
6 pp	955.44	3.66	30.08	27.08	27.38	34.04	46.00	-11.96



Mode: b; Polarization: Vertical



Condition: 3m VERTICAL

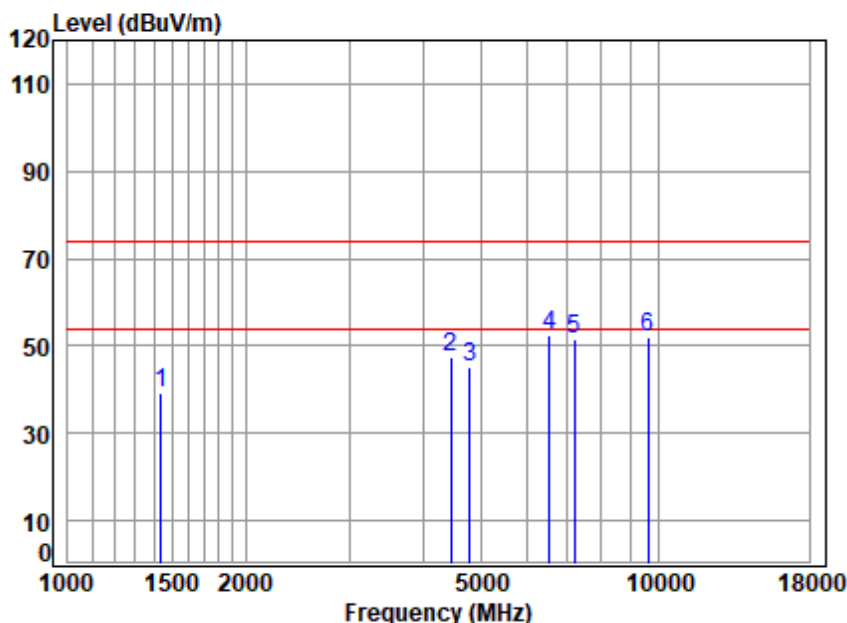
Job No. : 19921CR

Test Mode: b

	Freq	Cable	Ant	Preamp	Read		Limit	Over
	MHz	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	36.77	0.60	18.97	27.71	30.17	22.03	40.00	-17.97
2	87.11	1.10	12.80	27.65	36.95	23.20	40.00	-16.80
3	104.54	1.21	13.78	27.61	39.21	26.59	43.50	-16.91
4	113.32	1.24	13.38	27.55	37.40	24.47	43.50	-19.03
5	362.98	2.10	21.45	27.24	31.86	28.17	46.00	-17.83
6 pp	793.40	3.18	28.46	27.73	34.64	38.55	46.00	-7.45

Above 1GHz

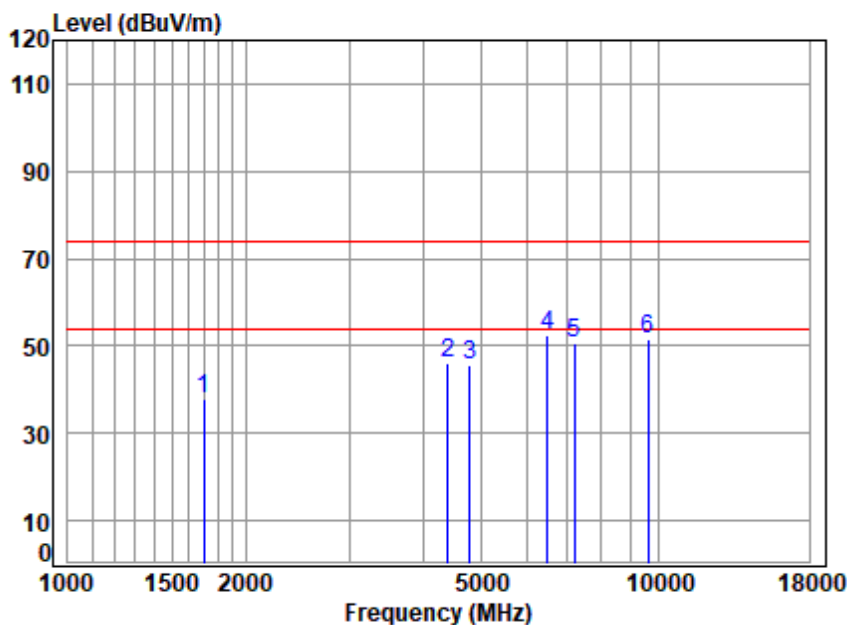
Mode:b; Polarization:Horizontal; Modulation:GFSK; ; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 19921CR  
Mode : 2402 TX RSE  
Note : BT

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1439.343	5.28	25.56	40.46	48.83	39.21	74.00	-34.79	peak
2	4456.315	7.51	33.60	42.52	48.64	47.23	74.00	-26.77	peak
3	4804.000	7.89	34.16	42.77	46.11	45.39	74.00	-28.61	peak
4	6545.263	11.41	35.23	41.93	47.60	52.31	74.00	-21.69	peak
5	7206.000	10.08	36.42	41.58	46.53	51.45	74.00	-22.55	peak
6	9608.000	10.75	37.52	38.57	42.35	52.05	74.00	-21.95	peak

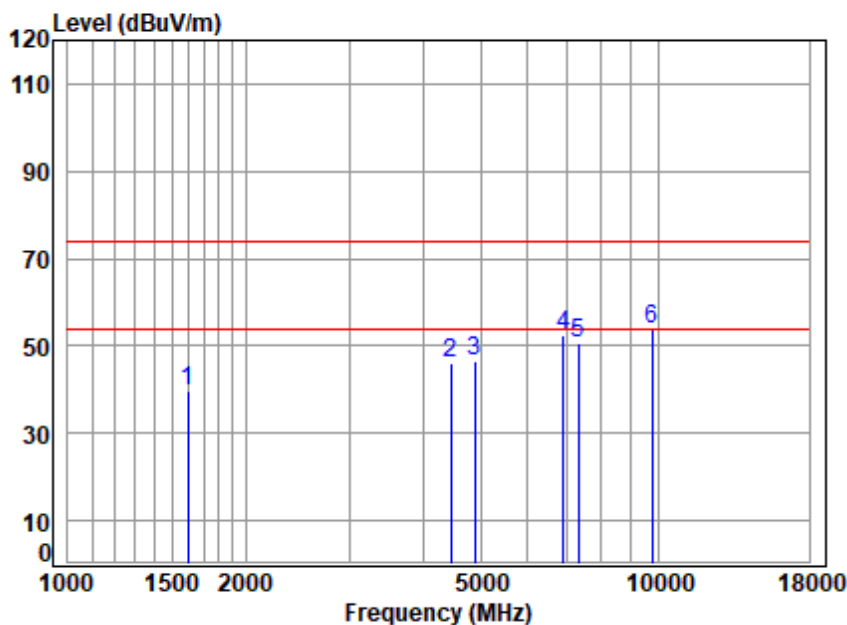
Mode:b; Polarization:Vertical; Modulation:GFSK; ; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 19921CR  
Mode : 2402 TX RSE  
Note : BT

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1702.042	5.23	26.68	40.63	46.82	38.10	74.00	-35.90	peak
2	4405.090	7.46	33.60	42.48	47.66	46.24	74.00	-27.76	peak
3	4804.000	7.89	34.16	42.77	46.54	45.82	74.00	-28.18	peak
4	6488.754	11.52	35.09	41.96	48.01	52.66	74.00	-21.34	peak
5	7206.000	10.08	36.42	41.58	45.95	50.87	74.00	-23.13	peak
6	9608.000	10.75	37.52	38.57	41.87	51.57	74.00	-22.43	peak

Mode:b; Polarization:Horizontal; Modulation:GFSK; ; Channel:middle

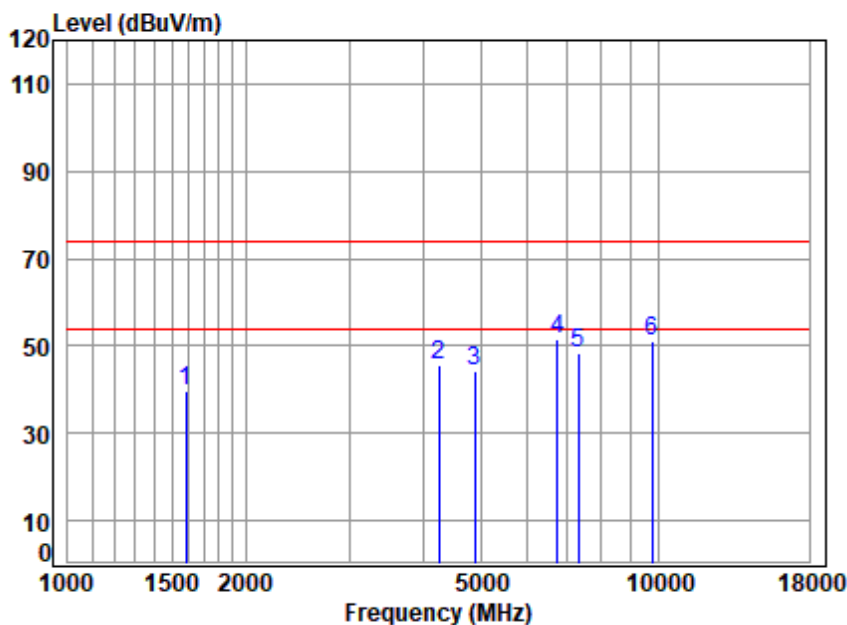


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 19921CR  
Mode : 2441 TX RSE  
Note : BT

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1597.181	5.35	26.24	40.57	48.69	39.71	74.00	-34.29	peak
2	4456.315	7.51	33.60	42.52	47.70	46.29	74.00	-27.71	peak
3	4882.000	7.97	34.30	42.82	47.27	46.72	74.00	-27.28	peak
4	6914.763	10.36	36.27	41.73	47.67	52.57	74.00	-21.43	peak
5	7323.000	10.05	36.37	41.52	45.88	50.78	74.00	-23.22	peak
6	9764.000	10.82	37.55	38.34	43.97	54.00	74.00	-20.00	peak



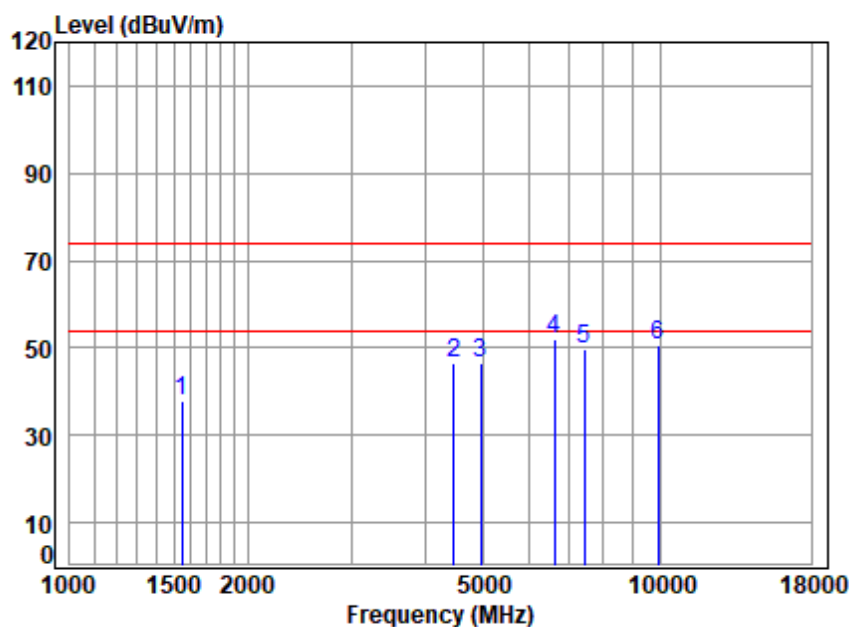
Mode:b; Polarization:Vertical; Modulation:GFSK; ; Channel:middle



Site : chamber  
Condition: 3m VERTICAL  
Job No : 19921CR  
Mode : 2441 TX RSE  
Note : BT

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1583.392	5.37	26.18	40.56	48.51	39.50	74.00	-34.50	peak
2	4242.641	7.27	33.60	42.35	47.09	45.61	74.00	-28.39	peak
3	4882.000	7.97	34.30	42.82	45.03	44.48	74.00	-29.52	peak
4	6756.708	10.80	35.83	41.81	46.64	51.46	74.00	-22.54	peak
5	7323.000	10.05	36.37	41.52	43.28	48.18	74.00	-25.82	peak
6	9764.000	10.82	37.55	38.34	41.23	51.26	74.00	-22.74	peak

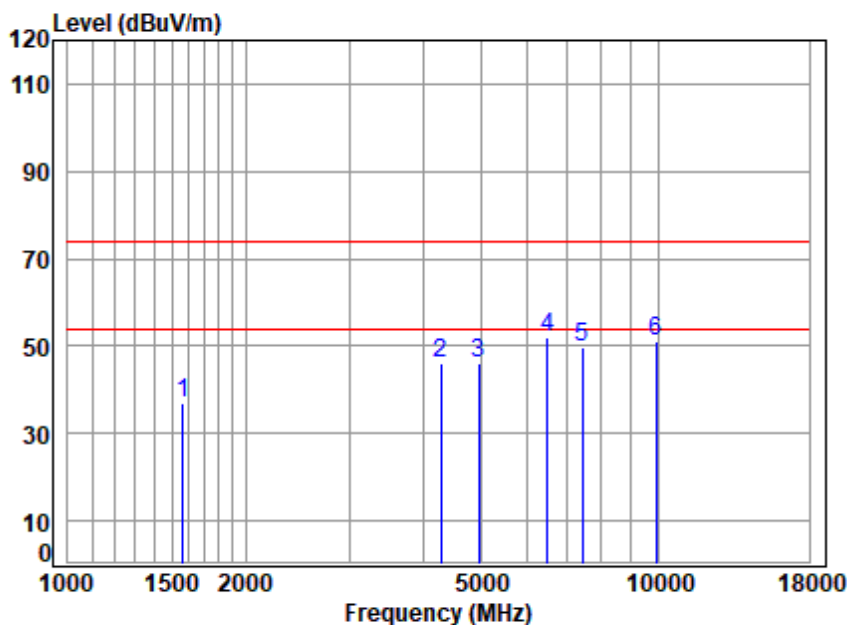
Mode:b; Polarization:Horizontal; Modulation:GFSK; ; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 19921CR  
Mode : 2480 TX RSE  
Note : BT

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1547.199	5.42	26.02	40.54	47.16	38.06	74.00	-35.94	peak
2	4469.214	7.53	33.60	42.53	47.76	46.36	74.00	-27.64	peak
3	4960.000	8.05	34.43	42.87	47.11	46.72	74.00	-27.28	peak
4	6621.375	11.19	35.45	41.88	47.34	52.10	74.00	-21.90	peak
5	7440.000	10.02	36.32	41.46	44.81	49.69	74.00	-24.31	peak
6	9920.000	10.90	37.58	38.12	40.35	50.71	74.00	-23.29	peak

Mode:b; Polarization:Vertical; Modulation:GFSK; ; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 19921CR  
Mode : 2480 TX RSE  
Note : BT

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1569.721	5.39	26.12	40.55	45.80	36.76	74.00	-37.24	peak
2	4279.589	7.31	33.60	42.38	47.74	46.27	74.00	-27.73	peak
3	4960.000	8.05	34.43	42.87	46.46	46.07	74.00	-27.93	peak
4	6488.754	11.52	35.09	41.96	47.57	52.22	74.00	-21.78	peak
5	7440.000	10.02	36.32	41.46	45.05	49.93	74.00	-24.07	peak
6	9920.000	10.90	37.58	38.12	40.71	51.07	74.00	-22.93	peak



## 8 Photographs

### 8.1 Test Setup

Refer to Setup Photos

### 8.2 EUT Constructional Details (EUT Photos)

Refer to EUT external and internal photos



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## 9 Appendix

### 9.1 Appendix 15.247

#### 1.20 dB Bandwidth

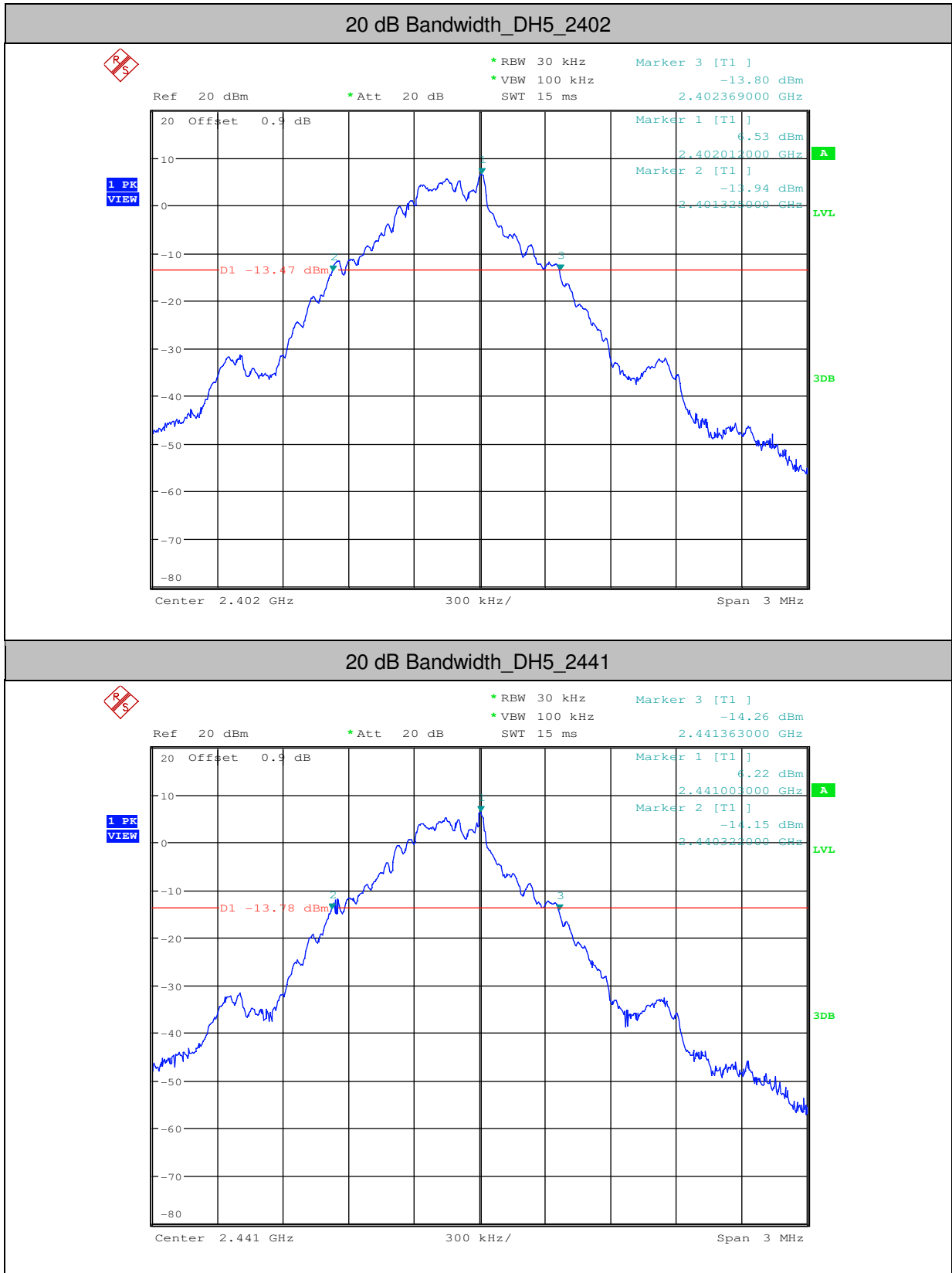
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DH5	2402	1.044	---	PASS
DH5	2441	1.041	---	PASS
DH5	2480	1.041	---	PASS
2DH5	2402	1.356	---	PASS
2DH5	2441	1.359	---	PASS
2DH5	2480	1.359	---	PASS
3DH5	2402	1.326	---	PASS
3DH5	2441	1.329	---	PASS
3DH5	2480	1.326	---	PASS



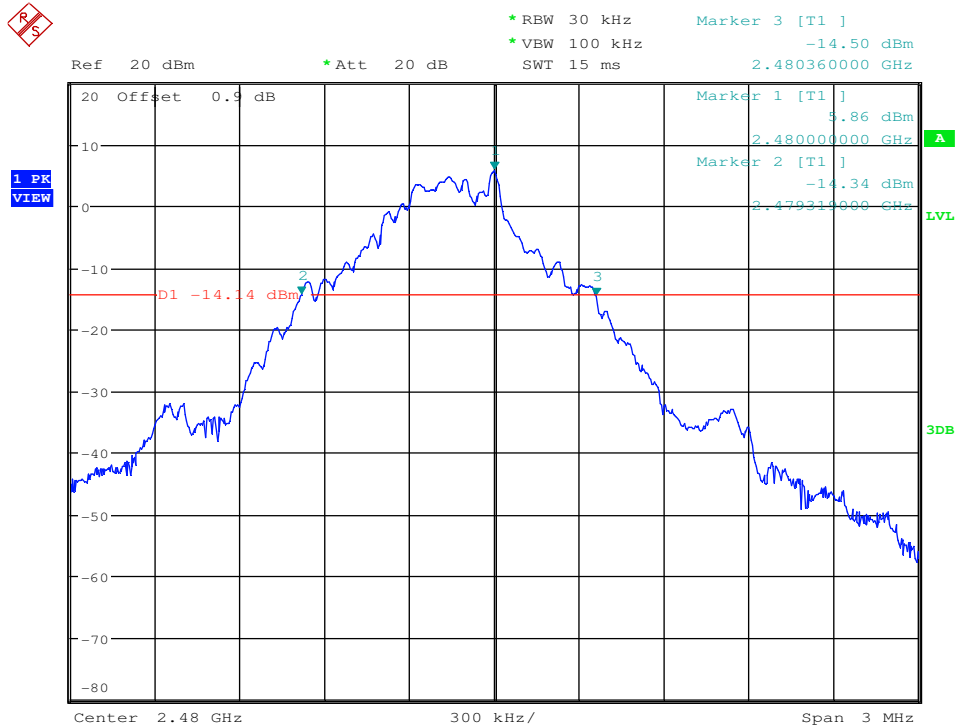
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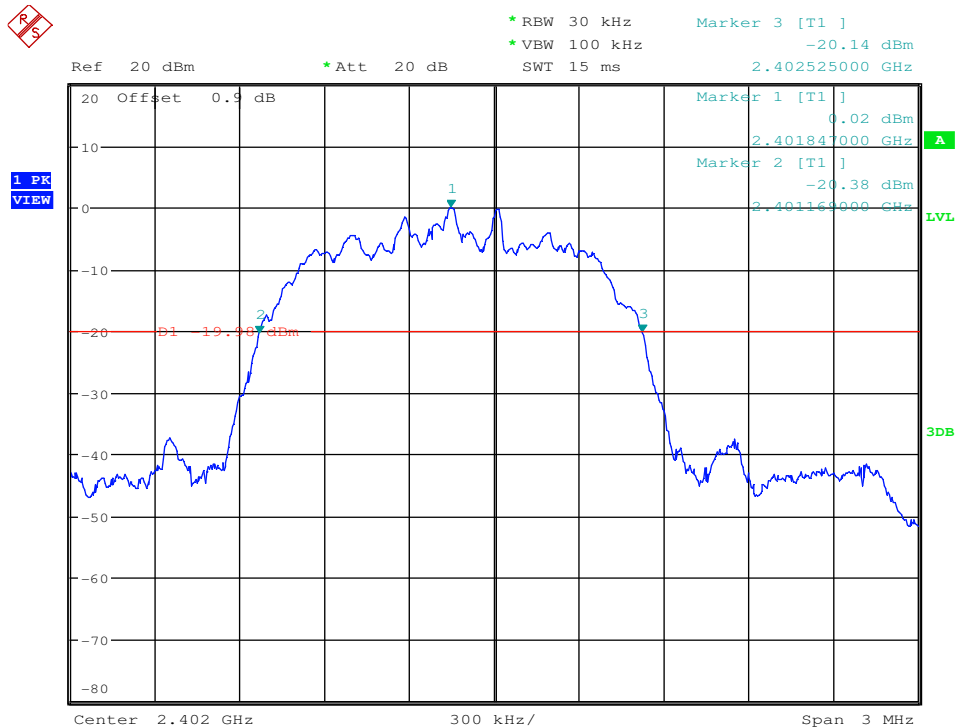
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### 20 dB Bandwidth\_DH5\_2480



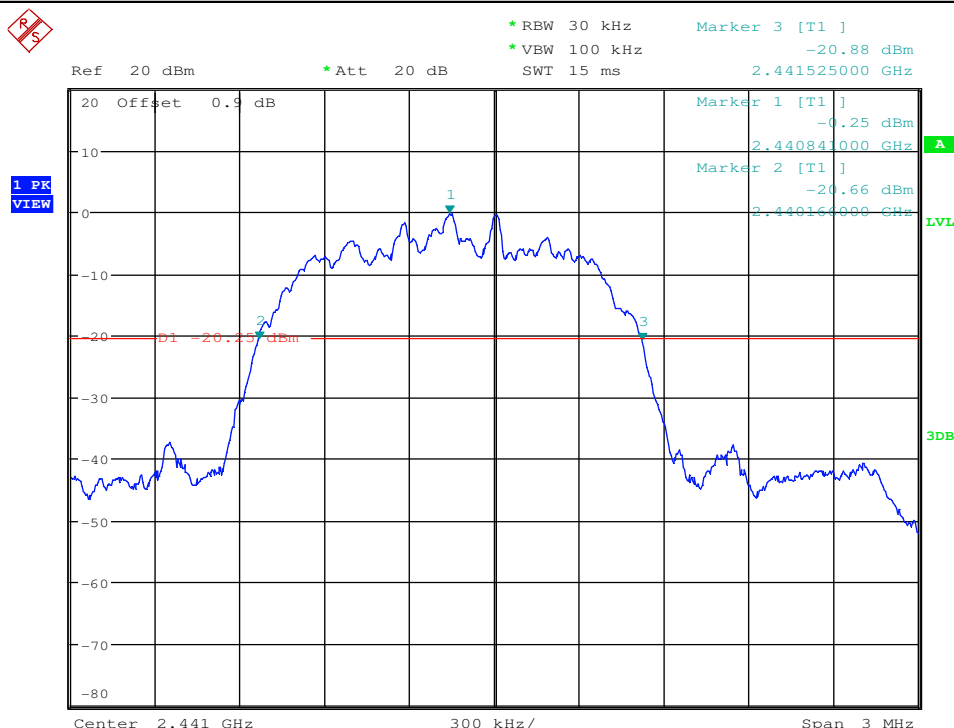
### 20 dB Bandwidth\_2DH5\_2402



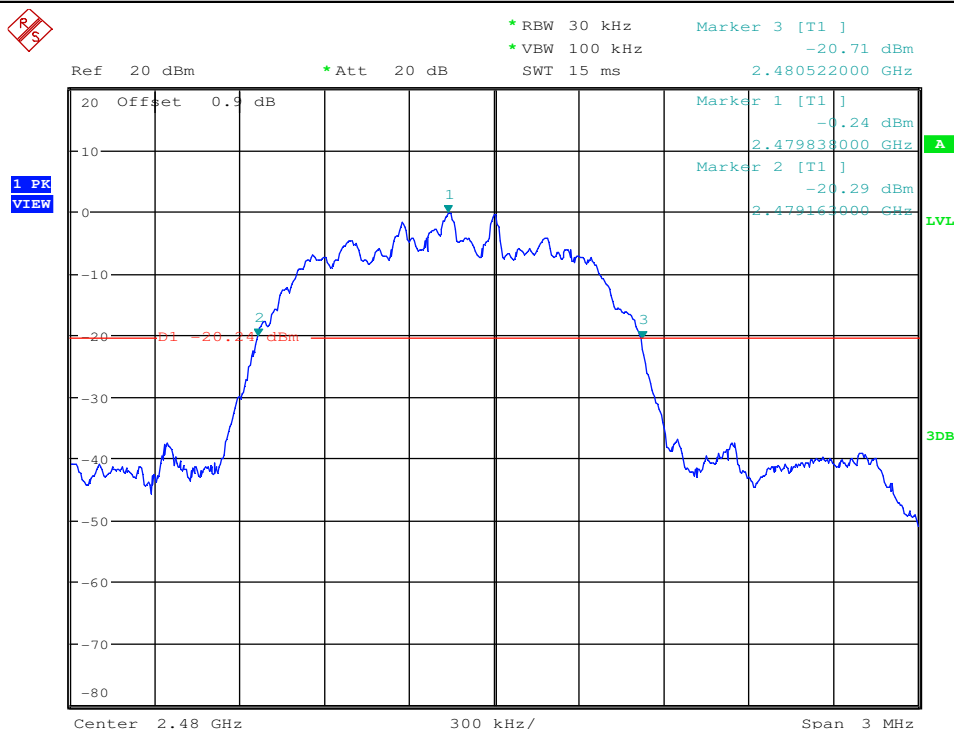
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### 20 dB Bandwidth\_2DH5\_2441

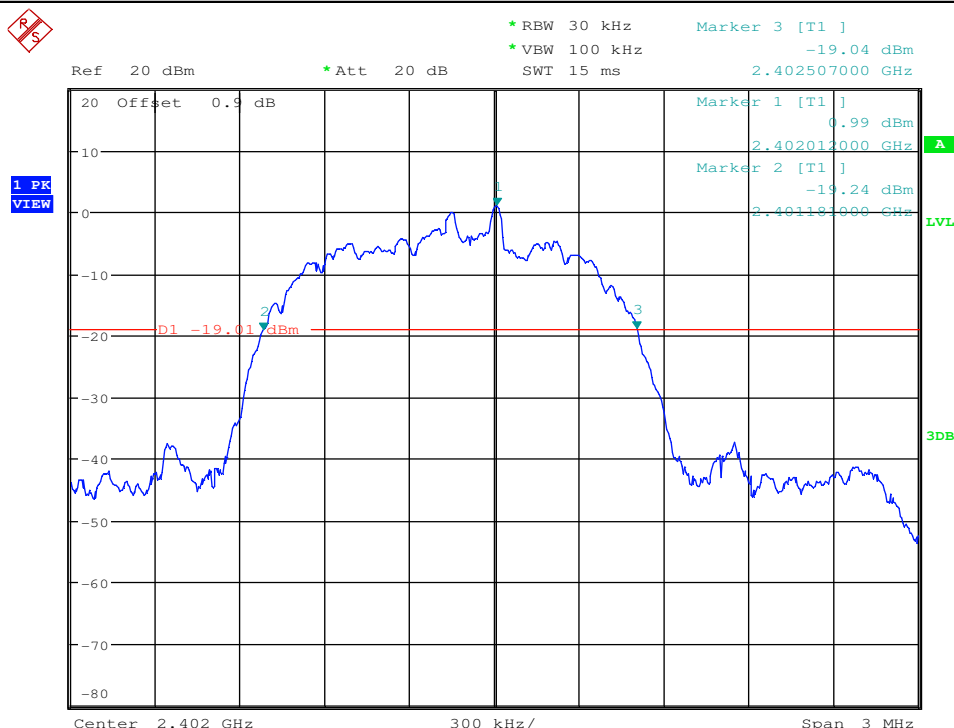


### 20 dB Bandwidth\_2DH5\_2480

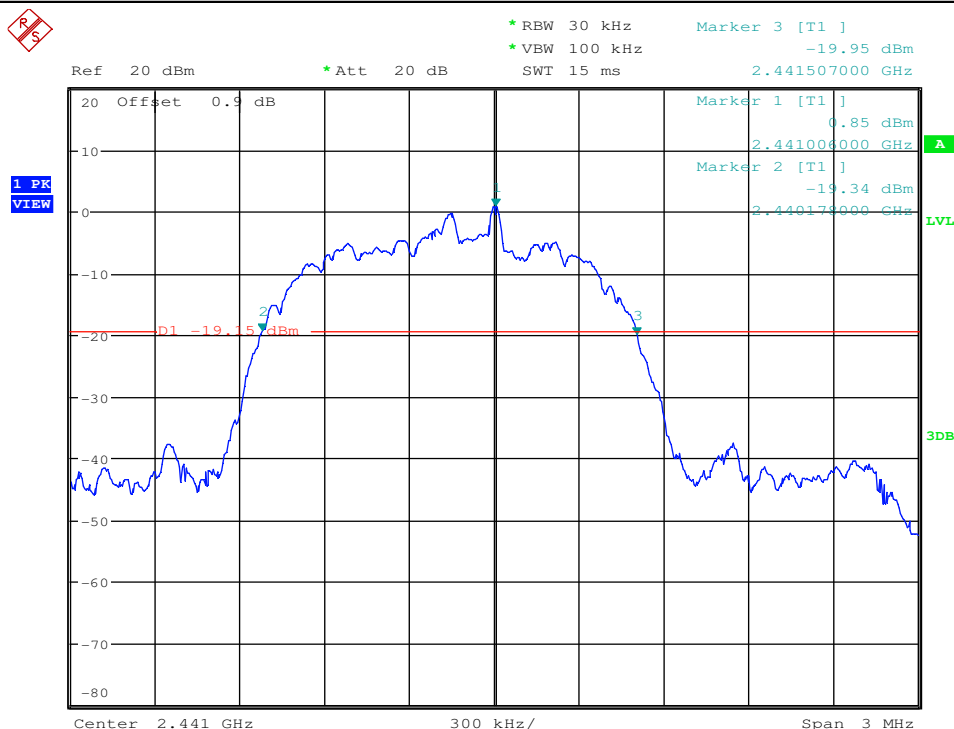


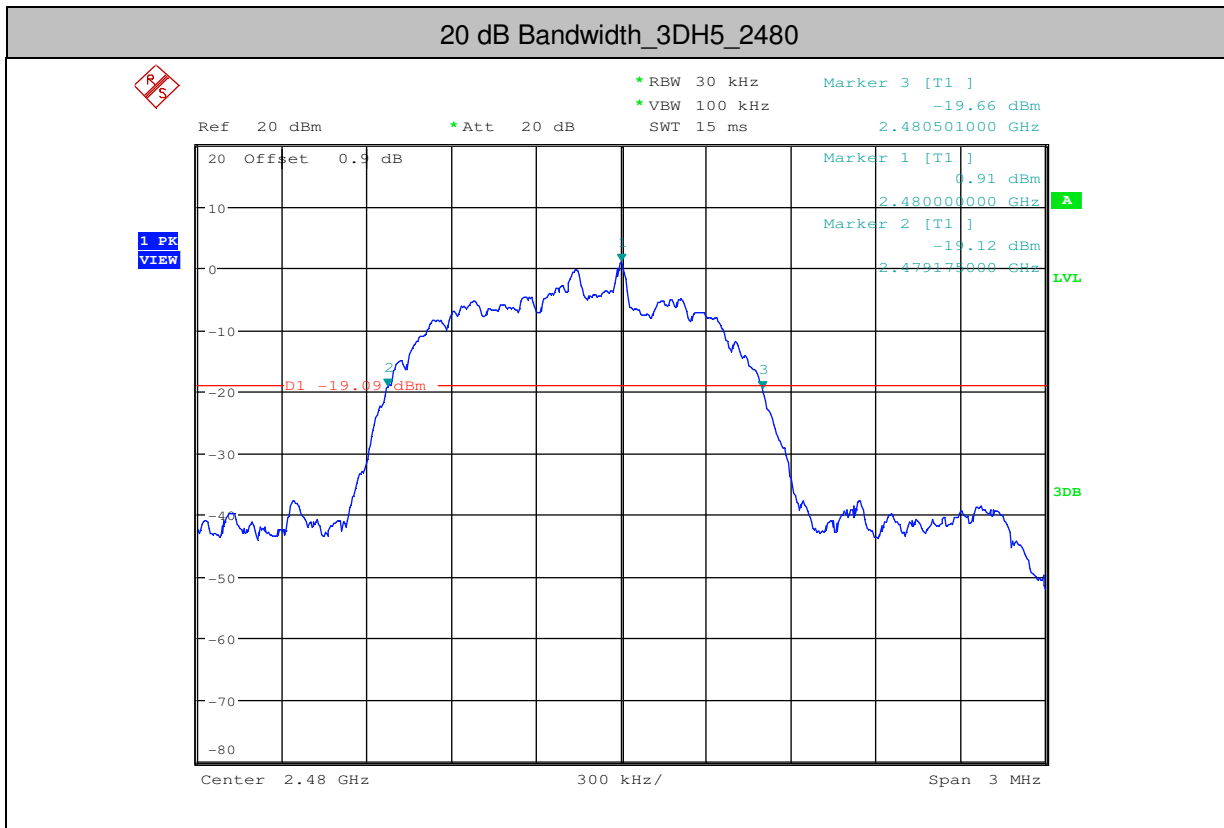


### 20 dB Bandwidth\_3DH5\_2402



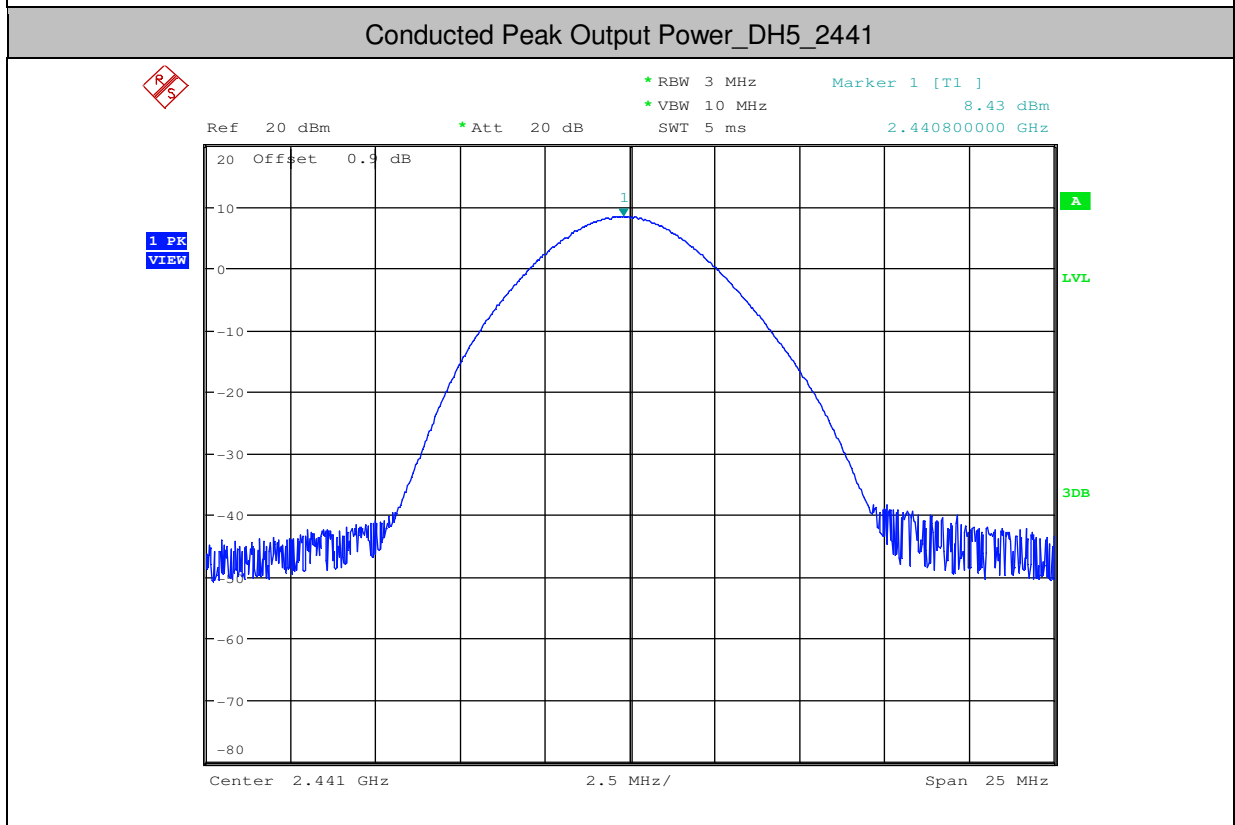
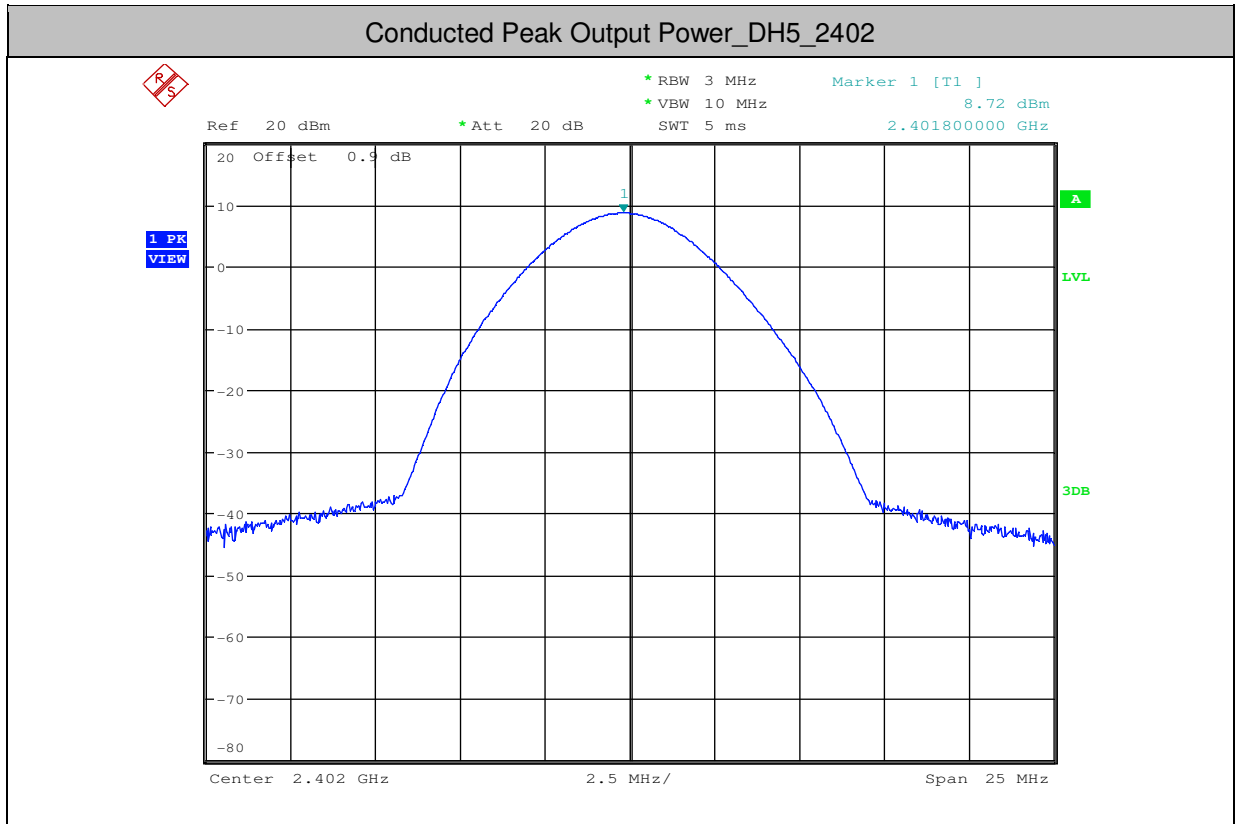
### 20 dB Bandwidth\_3DH5\_2441





## 2. Conducted Peak Output Power

Test Mode	Test Channel	Power[dBm]	Limit[dBm]	Verdict
DH5	2402	8.72	<=20.97	PASS
DH5	2441	8.43	<=20.97	PASS
DH5	2480	8.34	<=20.97	PASS
2DH5	2402	5.16	<=20.97	PASS
2DH5	2441	4.92	<=20.97	PASS
2DH5	2480	4.8	<=20.97	PASS
3DH5	2402	5.62	<=20.97	PASS
3DH5	2441	5.37	<=20.97	PASS
3DH5	2480	5.3	<=20.97	PASS

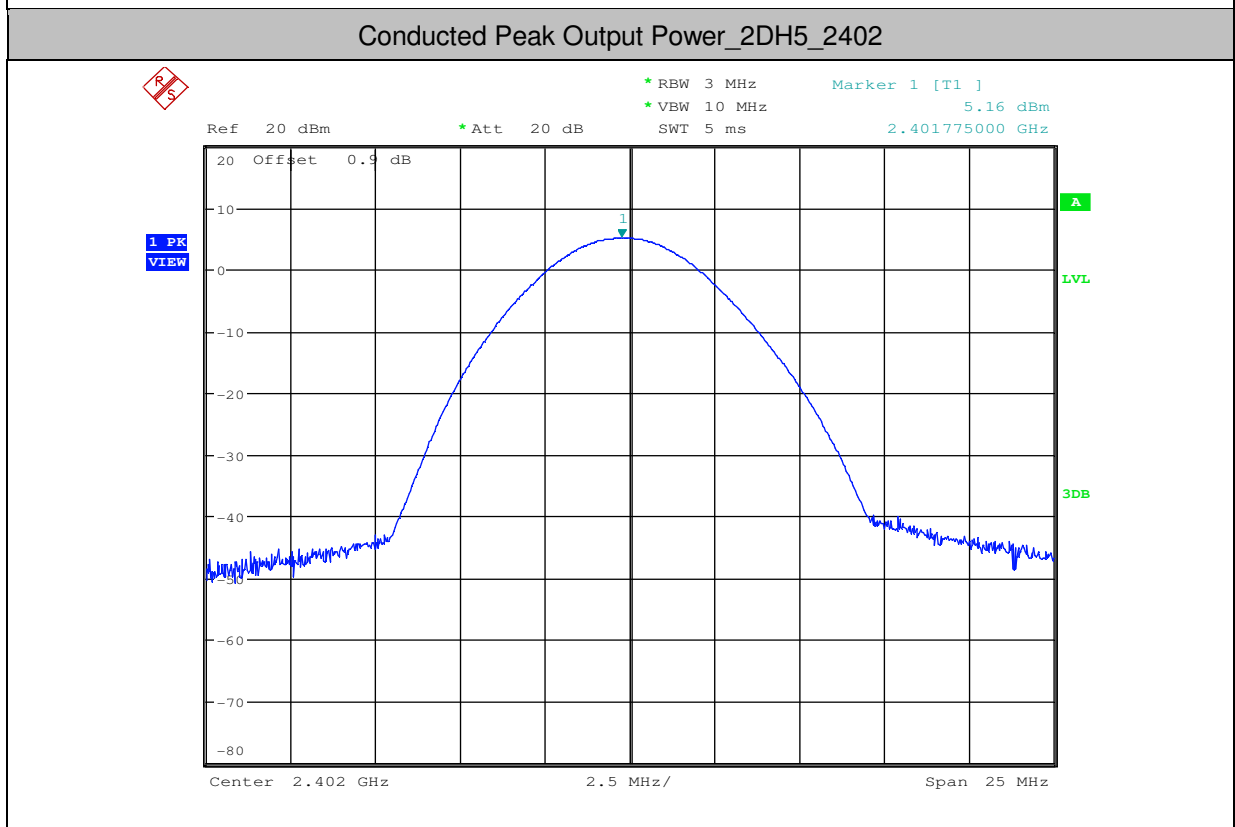
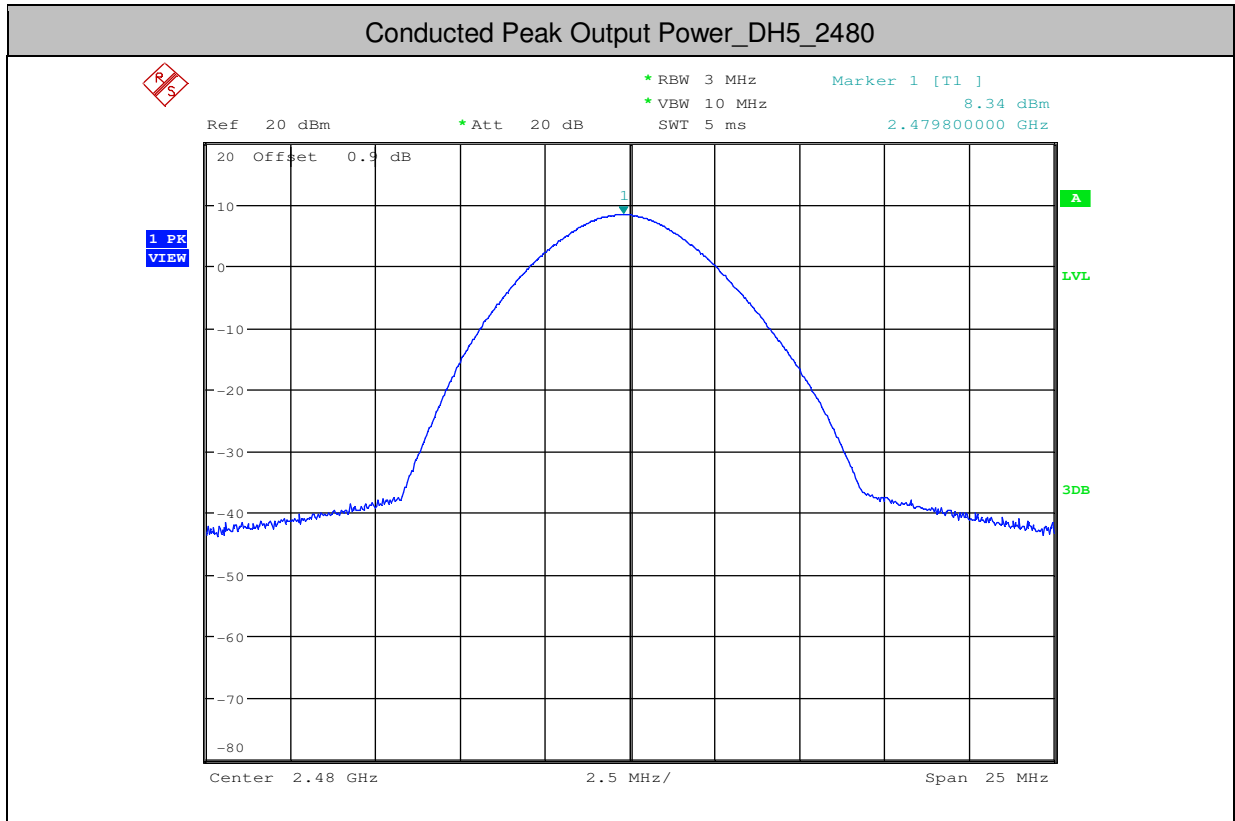


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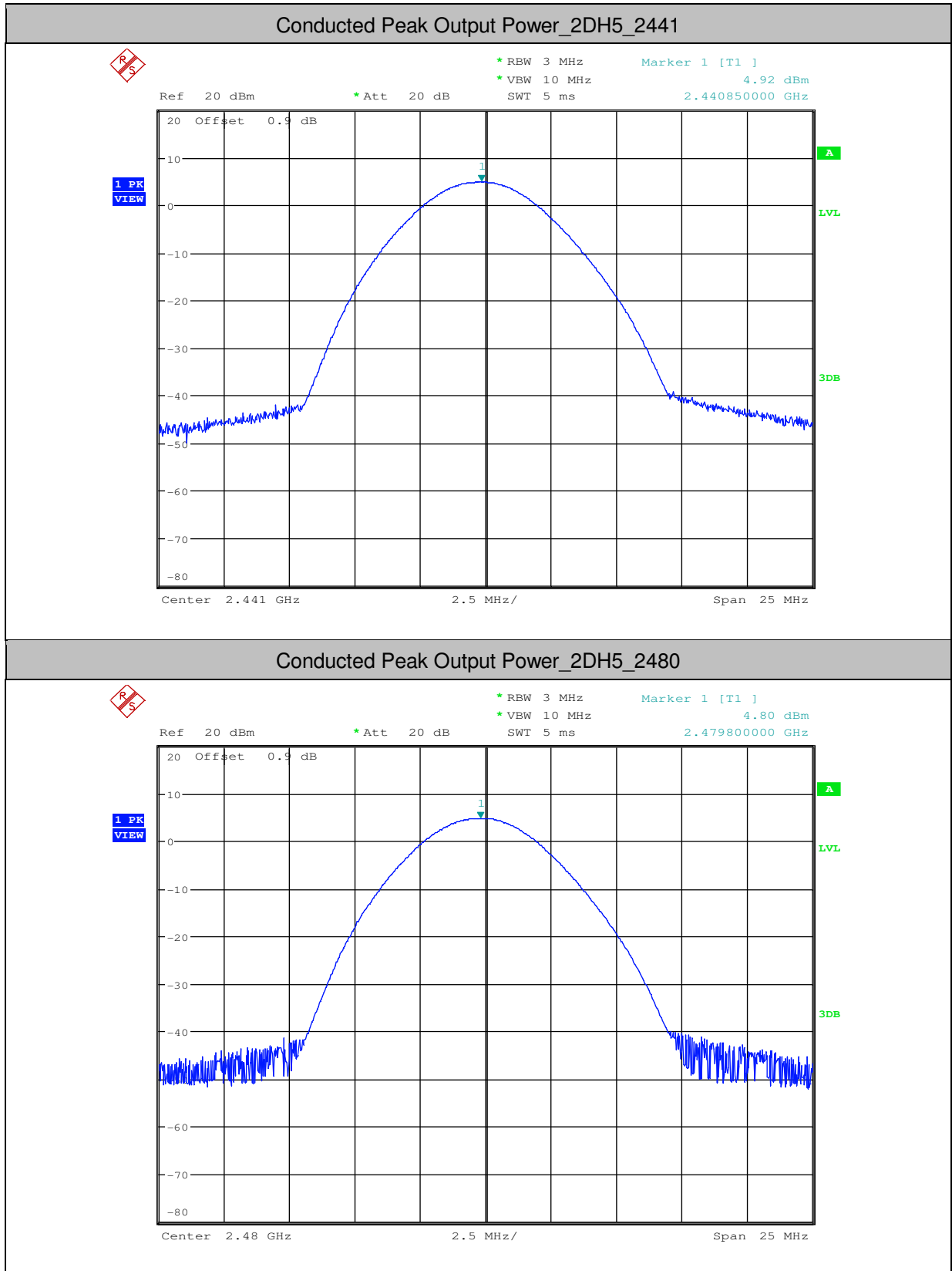


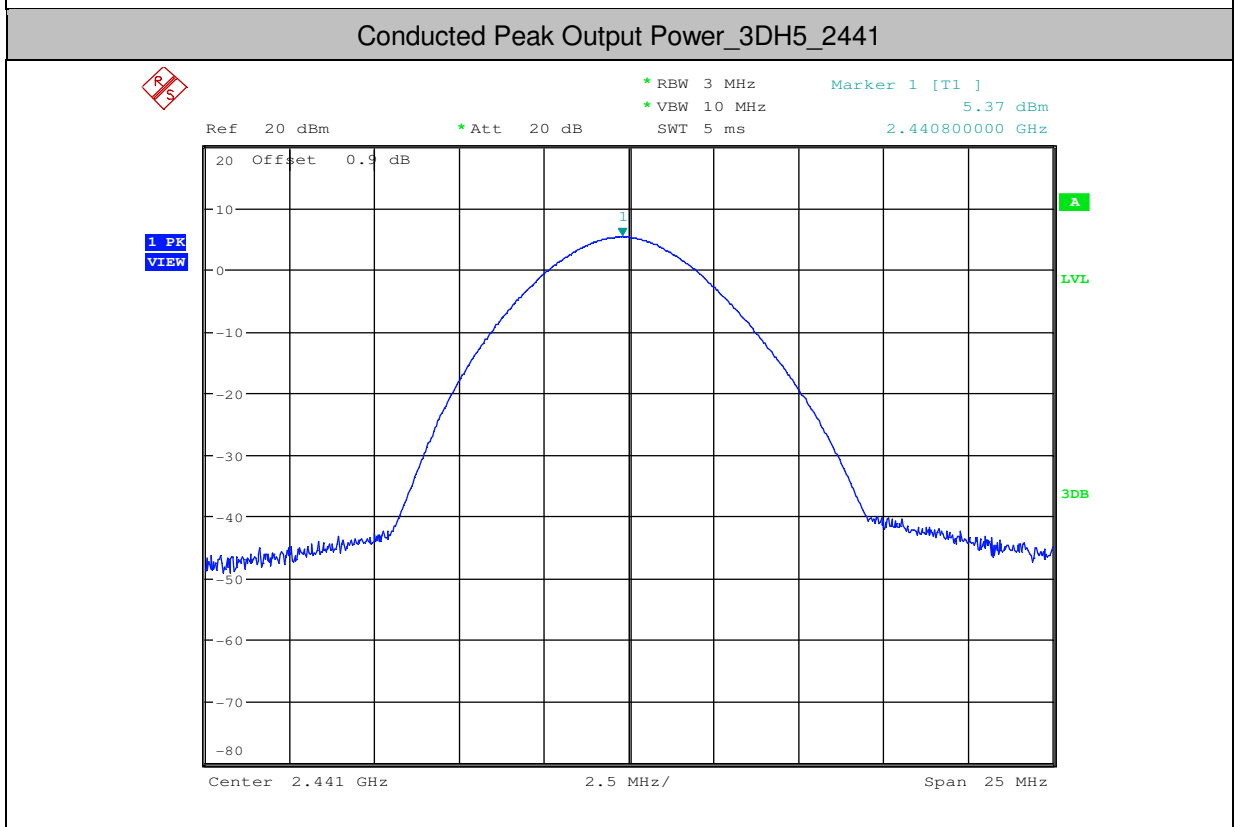
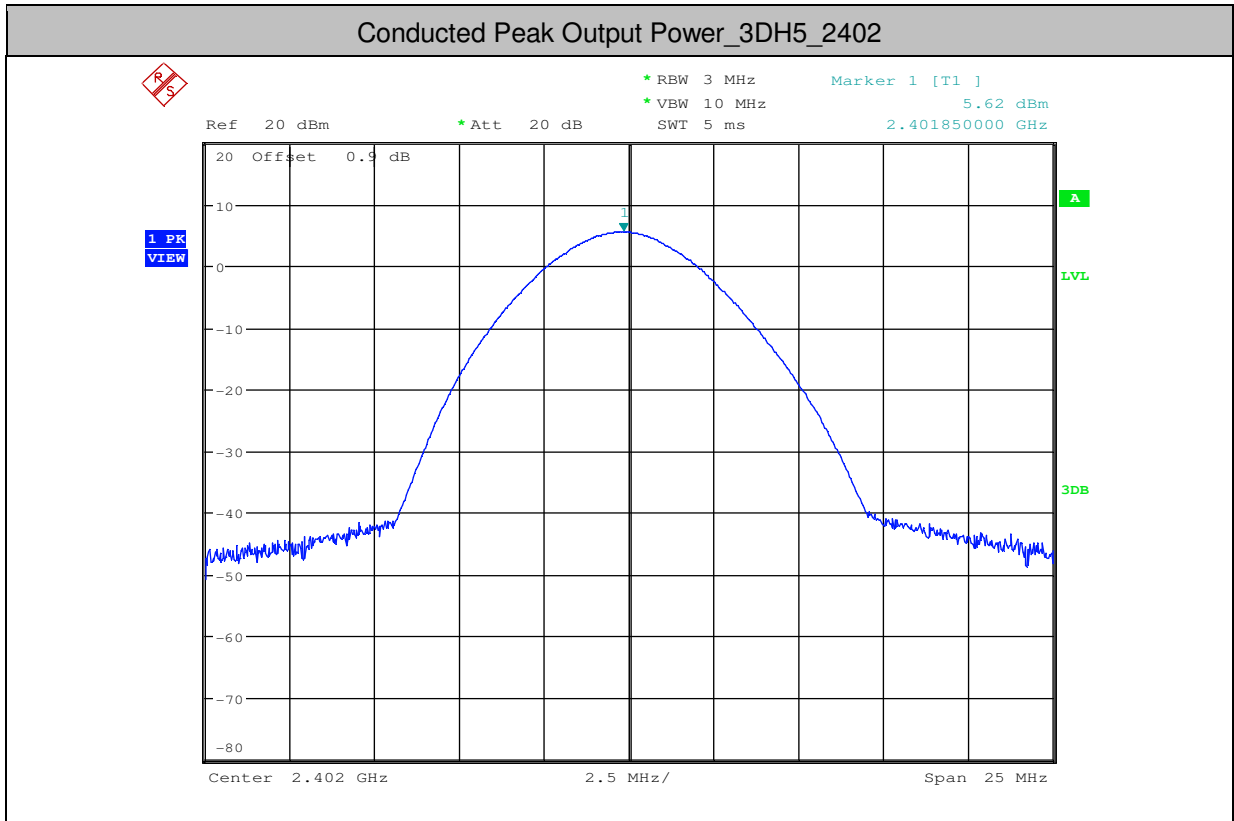


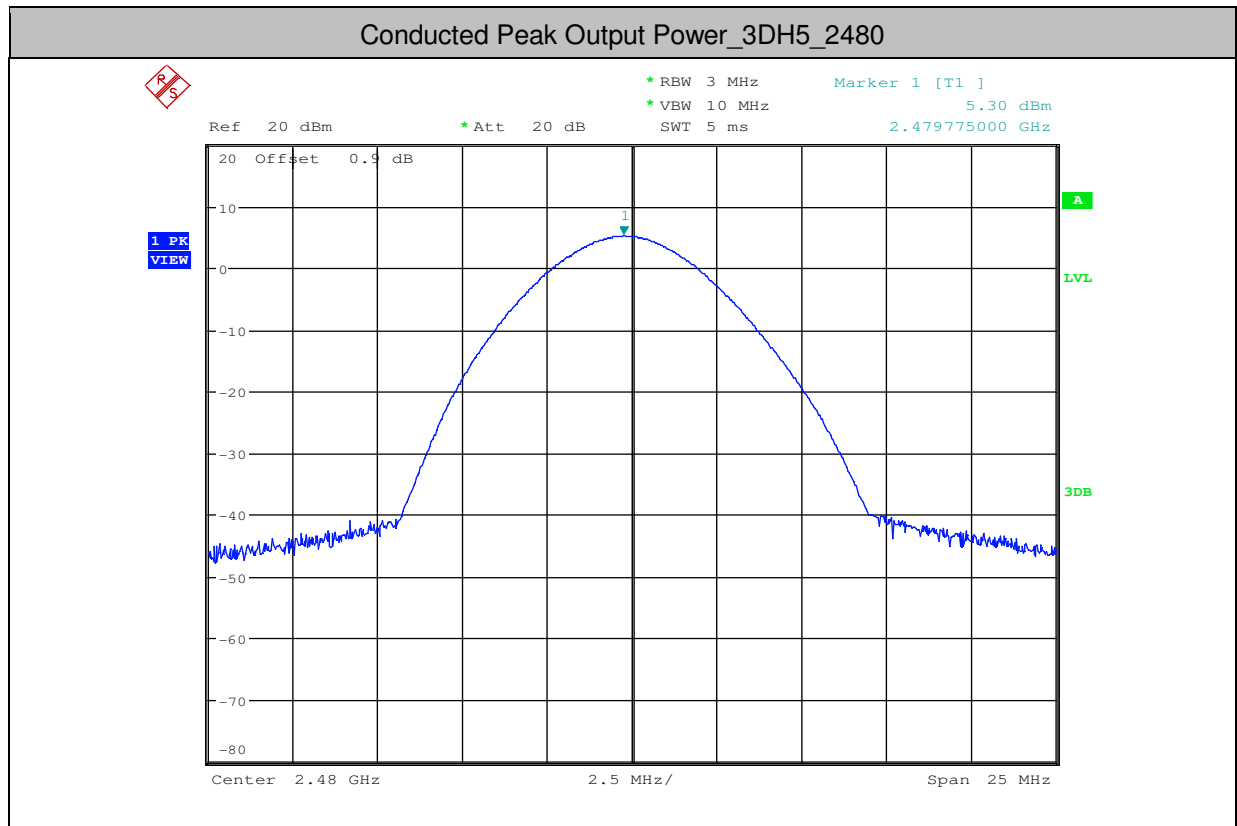
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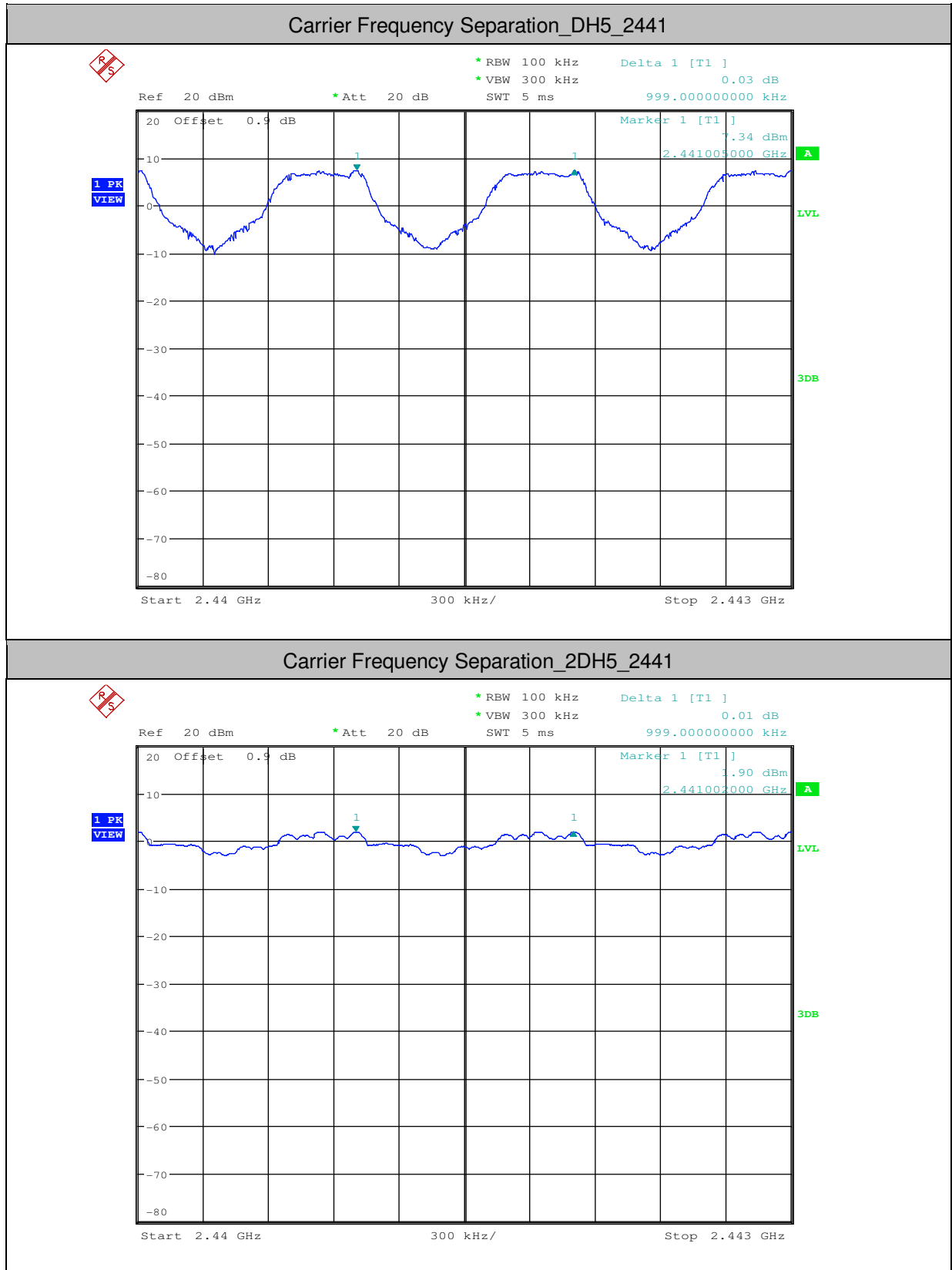


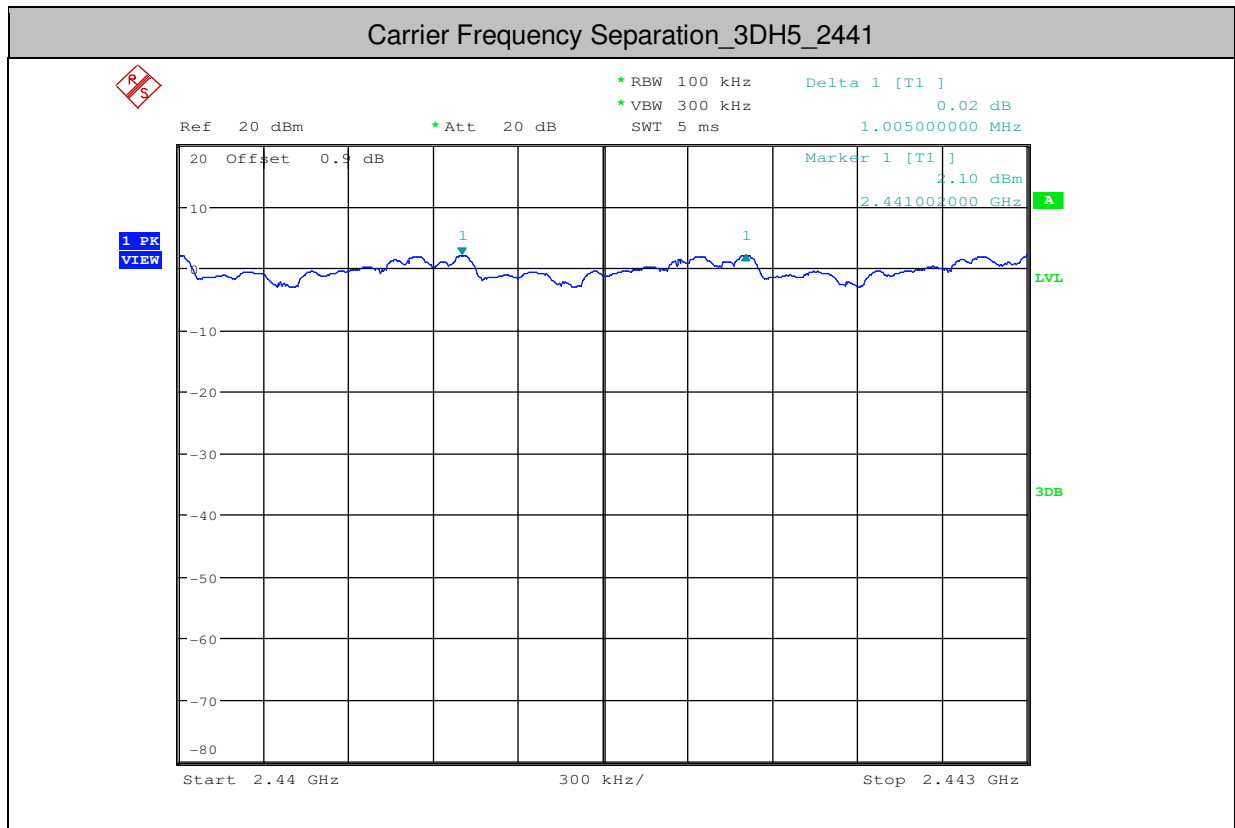
### 3.Carrier Frequency Separation

Test Mode	Test Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	2441	0.999	>=0.70	PASS
2DH5	2441	0.999	>=0.91	PASS
3DH5	2441	1.005	>=0.89	PASS









#### 4.Dwell Time

Test Mode	Test Channel	Burst Width[ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit[s]	Verdict
DH1	2402	0.38	310	0.118	<0.4	PASS
DH3	2402	1.64	170	0.279	<0.4	PASS
DH5	2402	2.89	90	0.26	<0.4	PASS
2DH1	2402	0.38	310	0.118	<0.4	PASS
2DH3	2402	1.64	180	0.295	<0.4	PASS
2DH5	2402	2.88	90	0.259	<0.4	PASS
3DH1	2402	0.38	320	0.122	<0.4	PASS
3DH3	2402	1.64	140	0.23	<0.4	PASS
3DH5	2402	2.89	80	0.231	<0.4	PASS

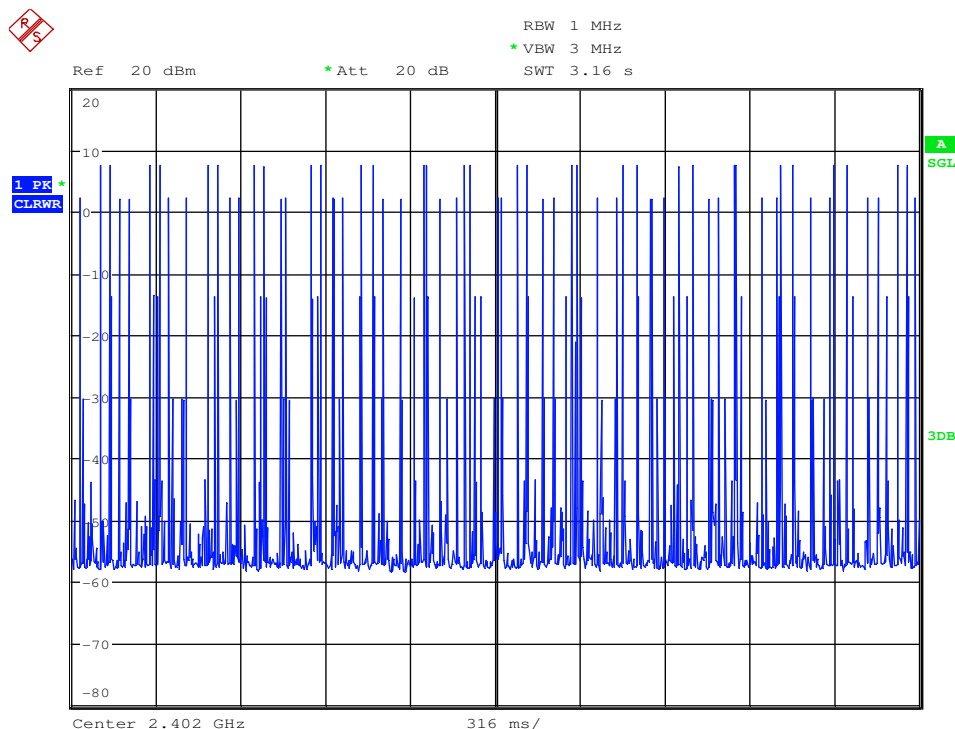
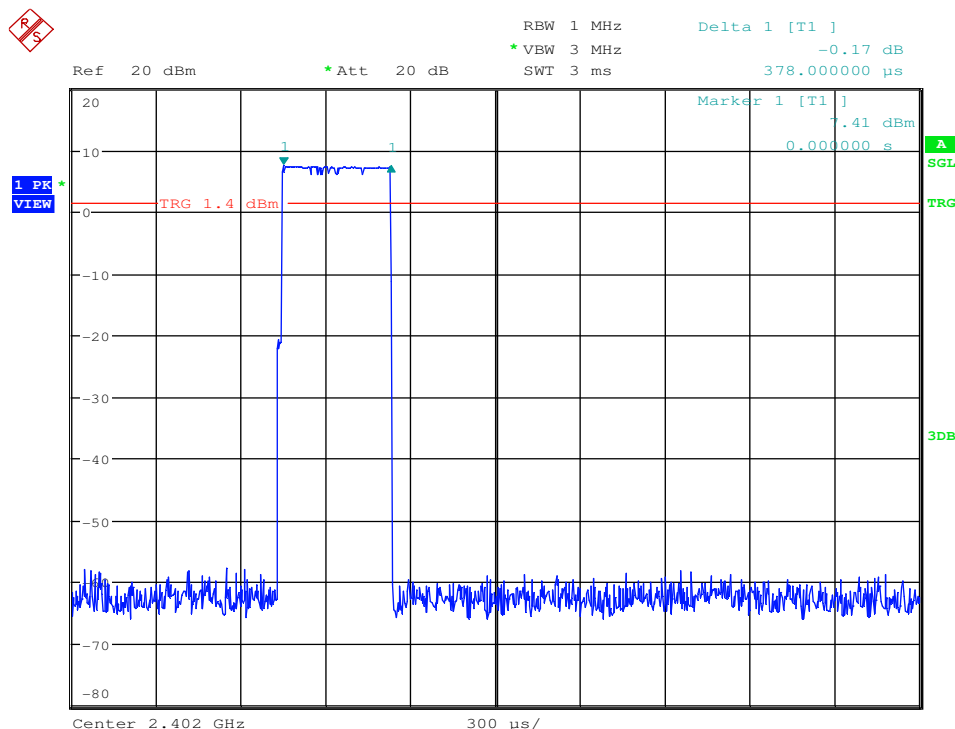


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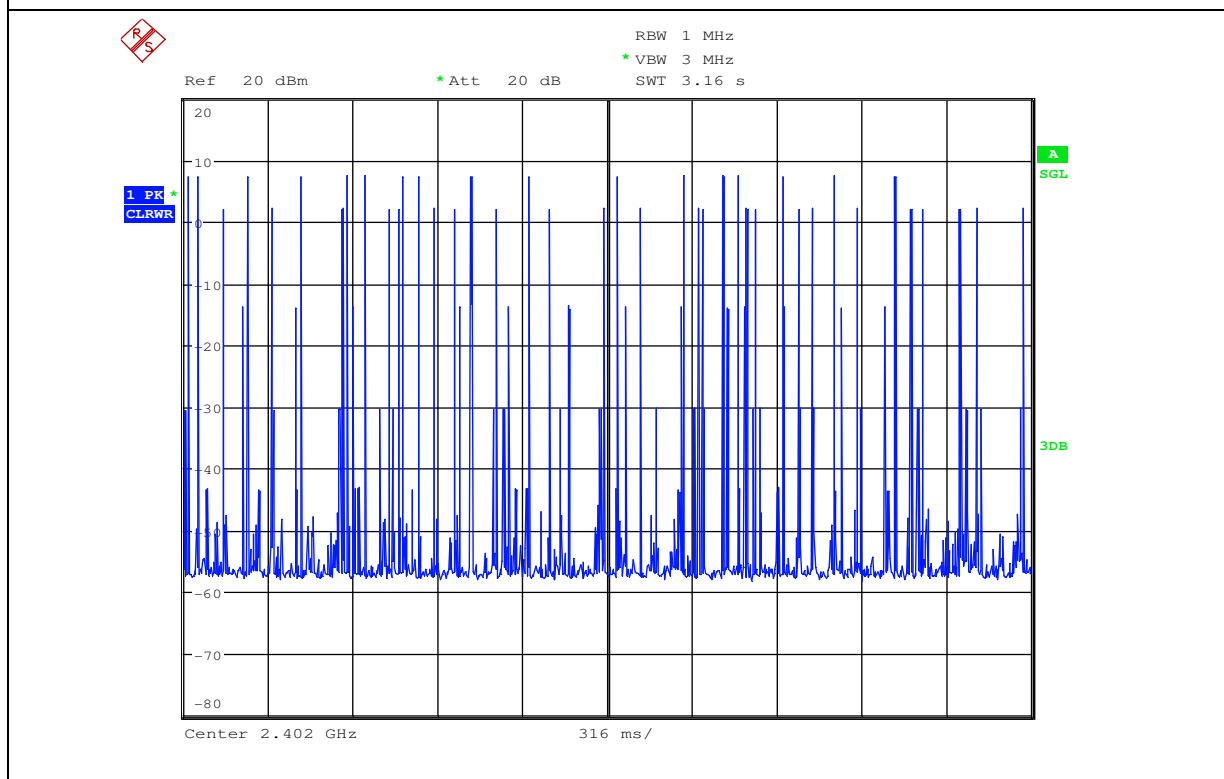
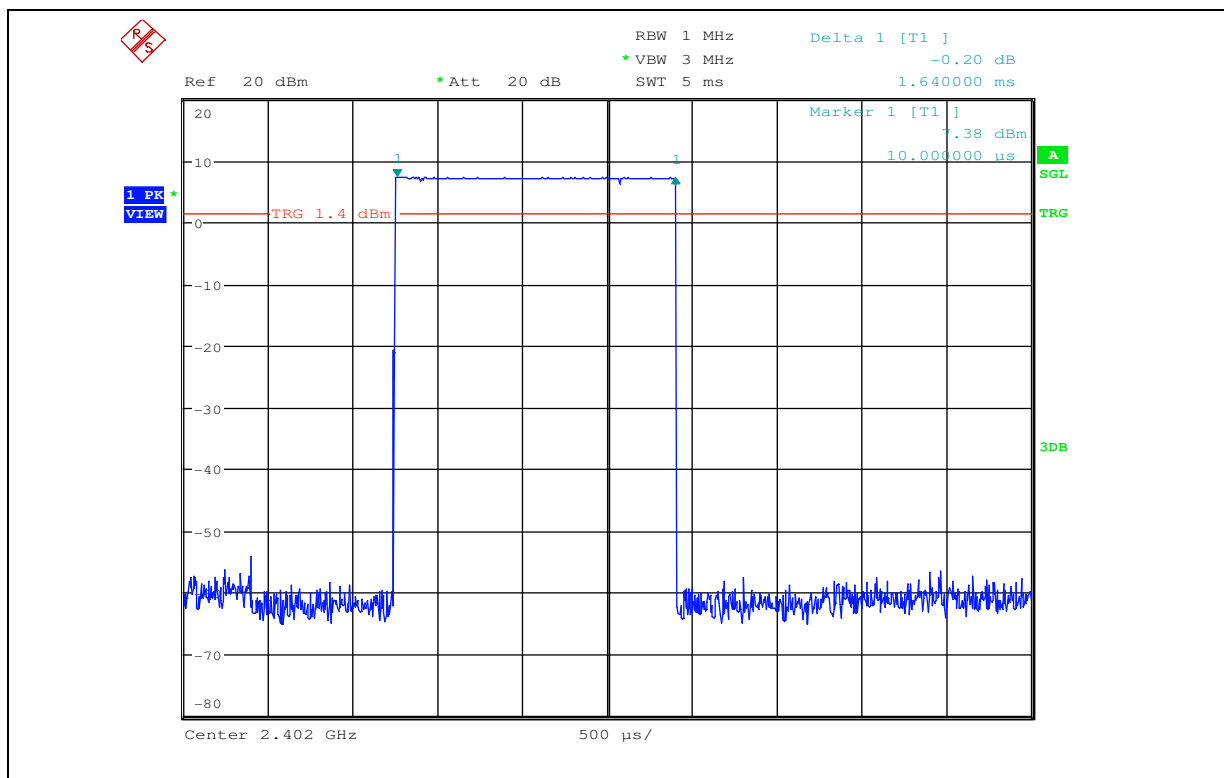
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### Dwell Time\_DH1\_2402



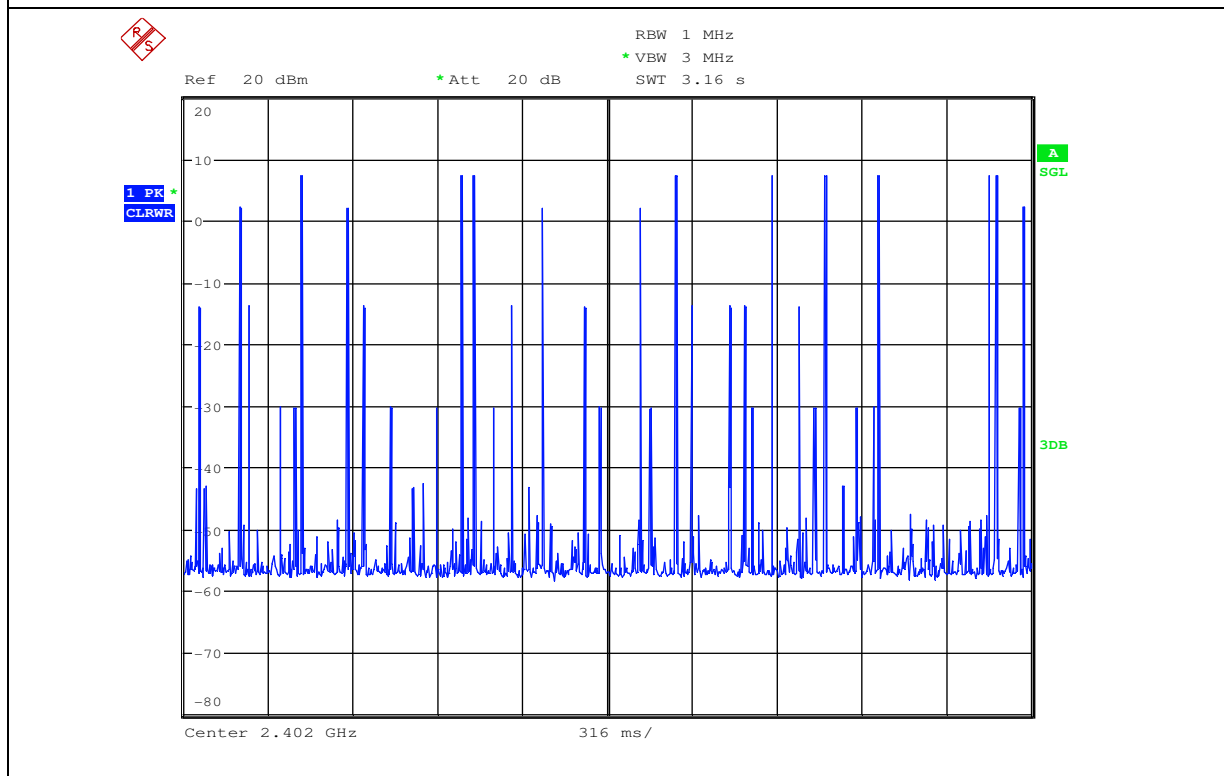
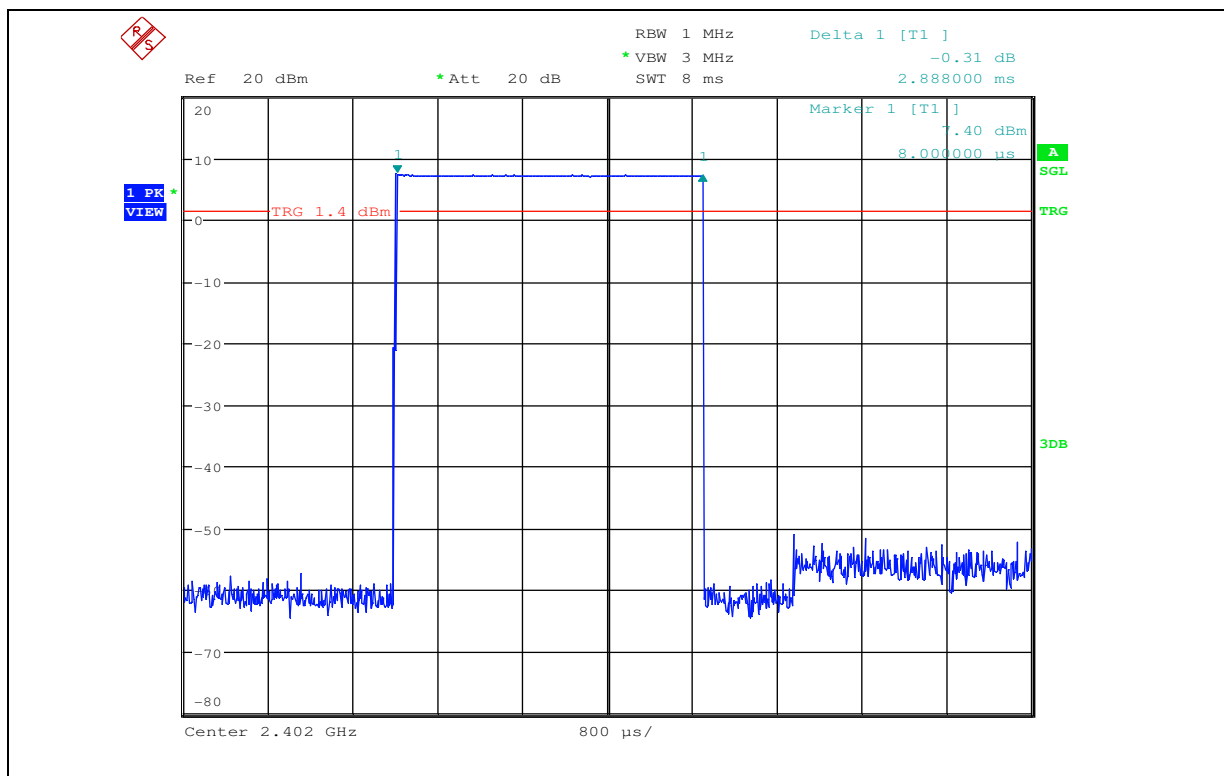
### Dwell Time\_DH3\_2402



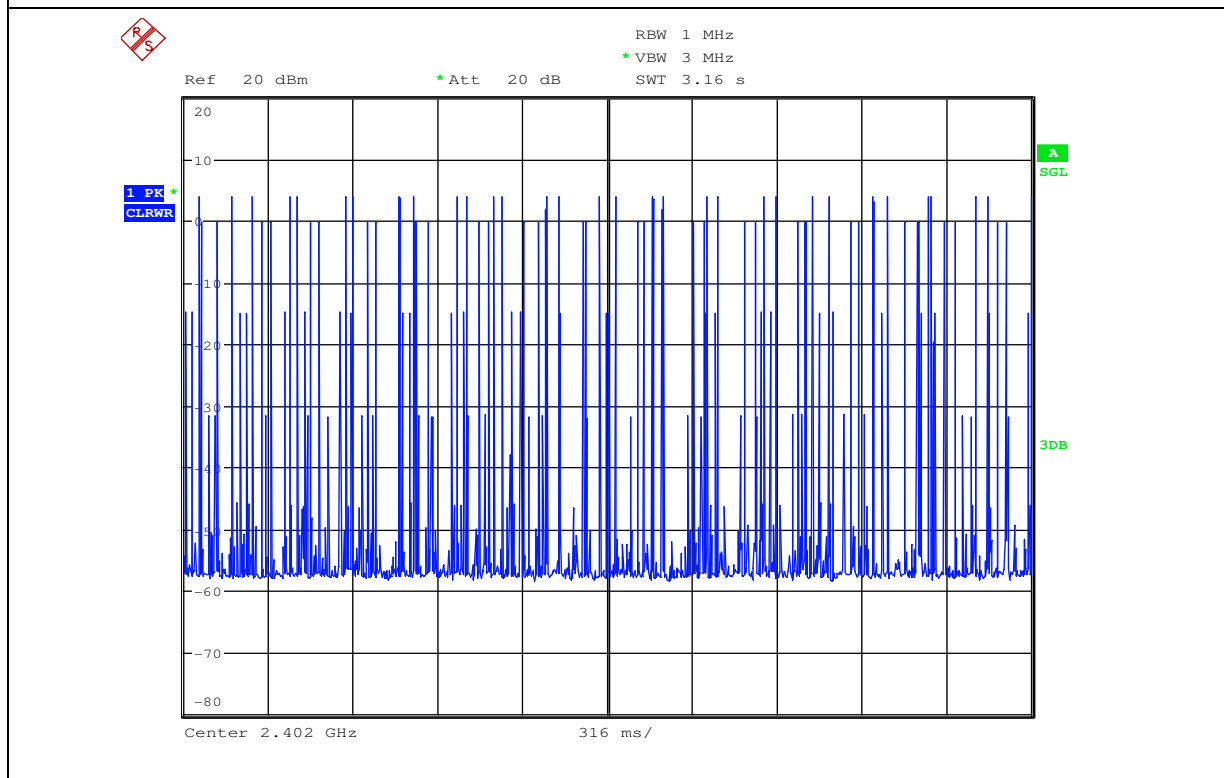
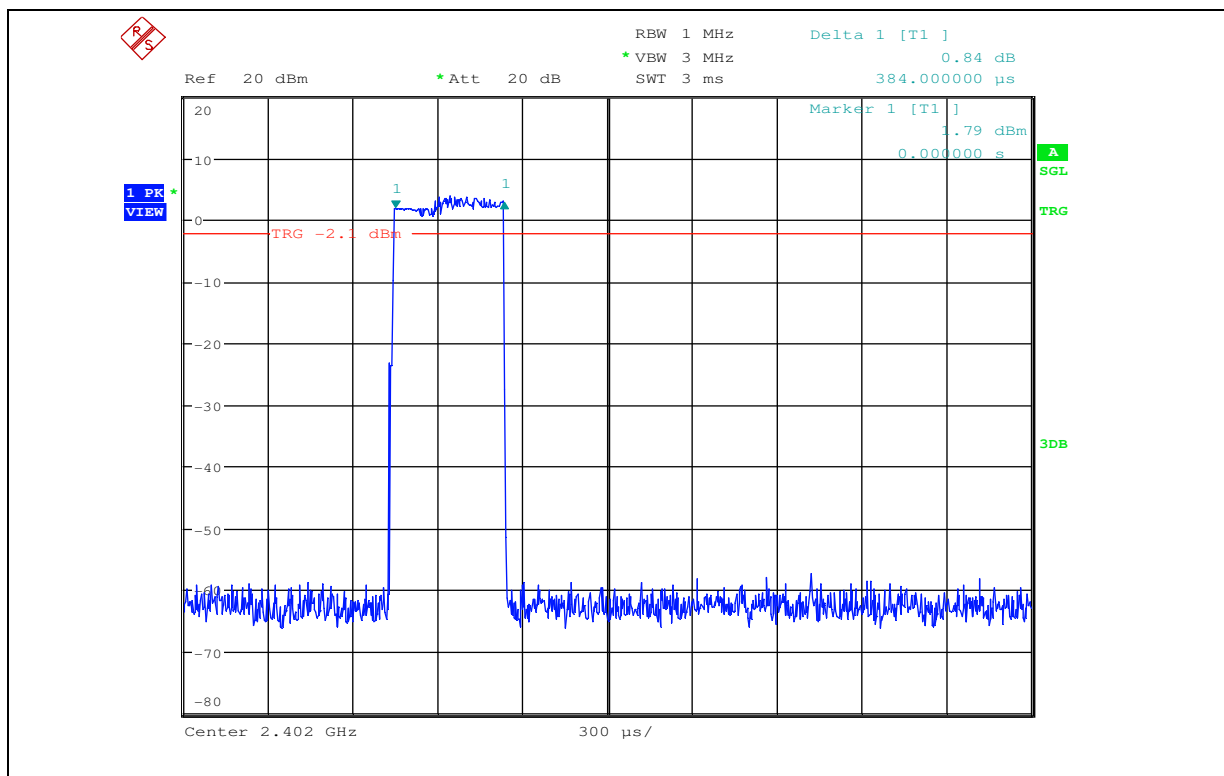


Dwell Time\_DH5\_2402

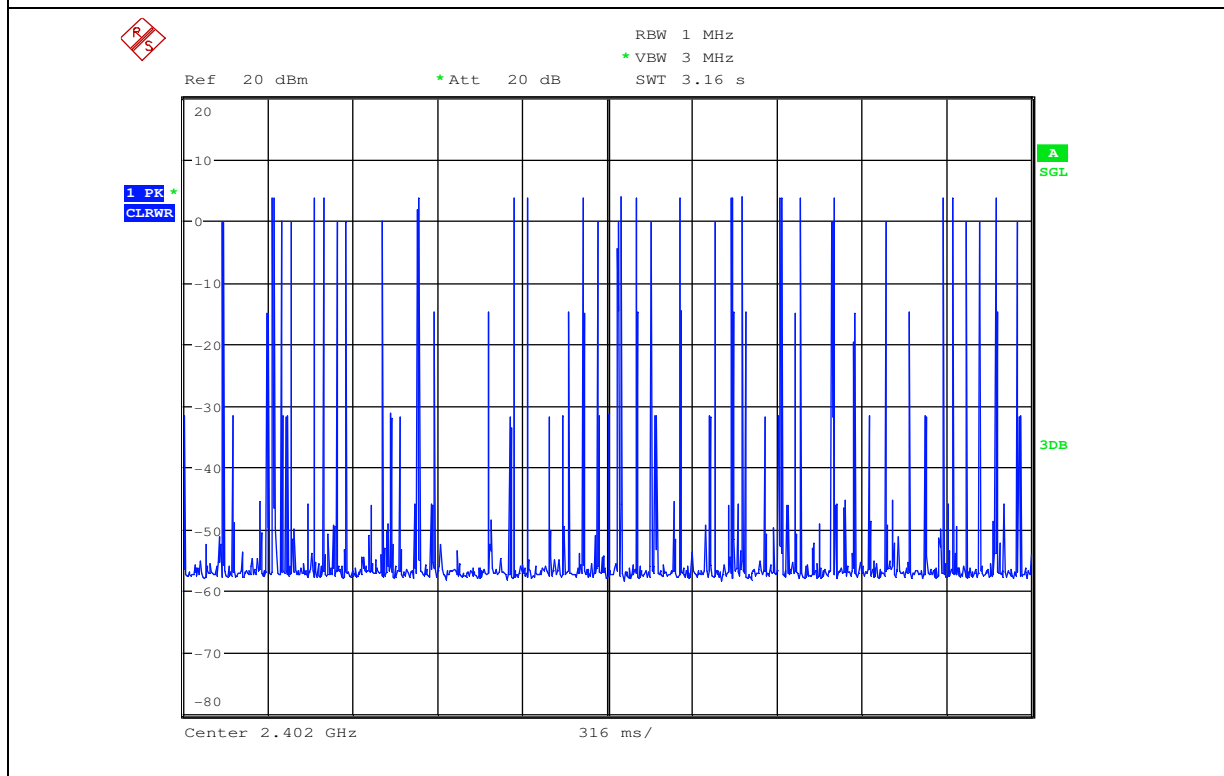
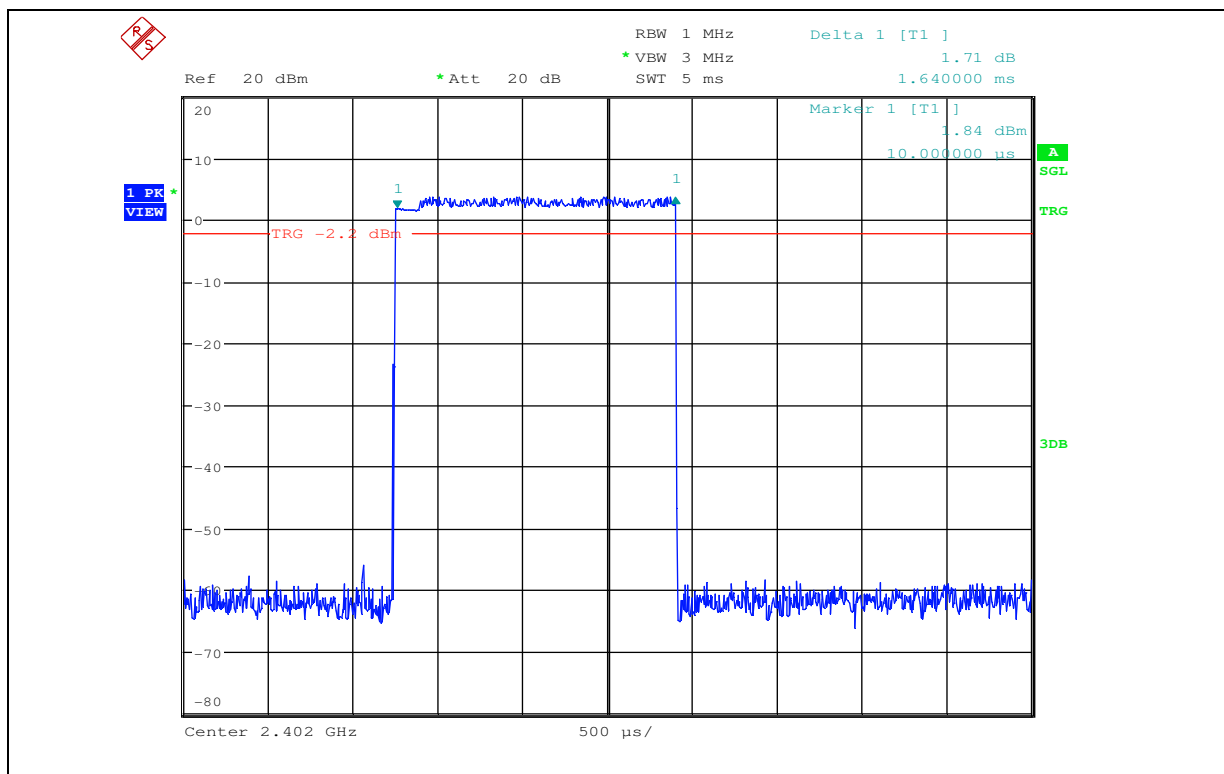




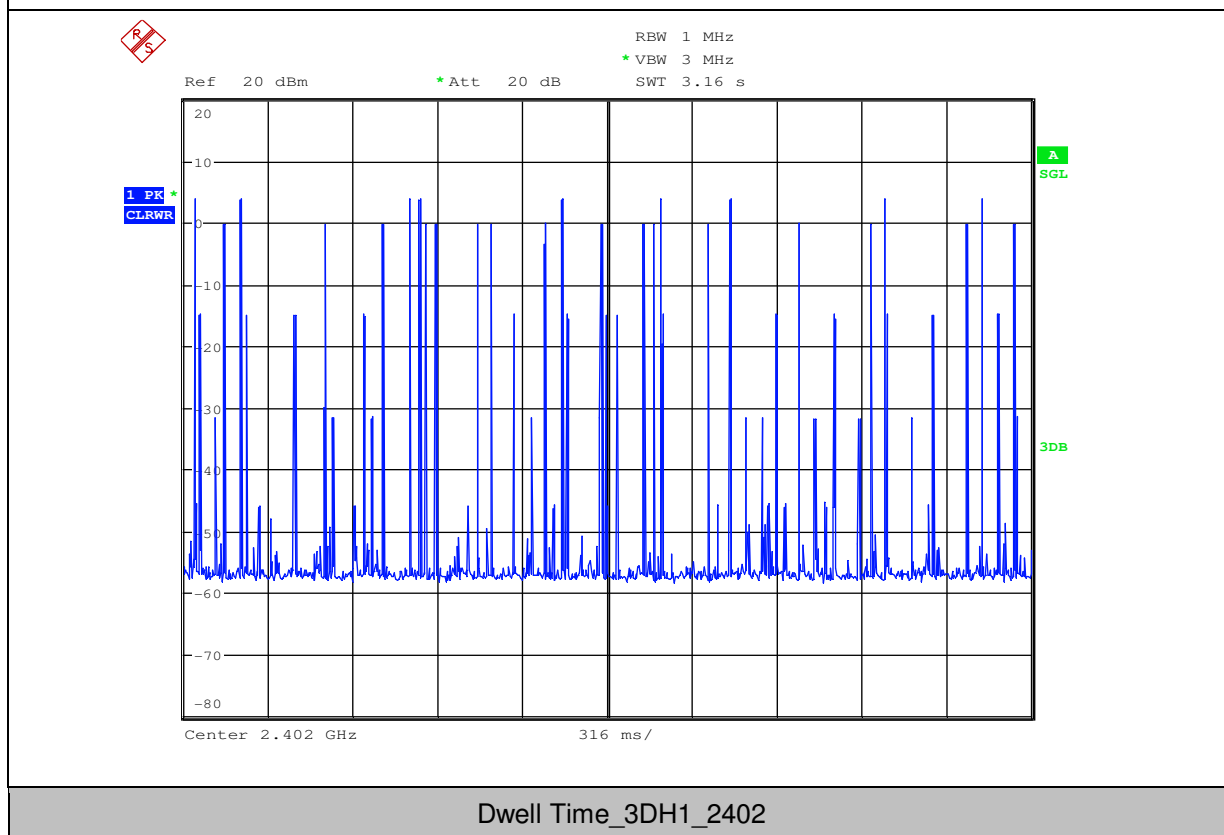
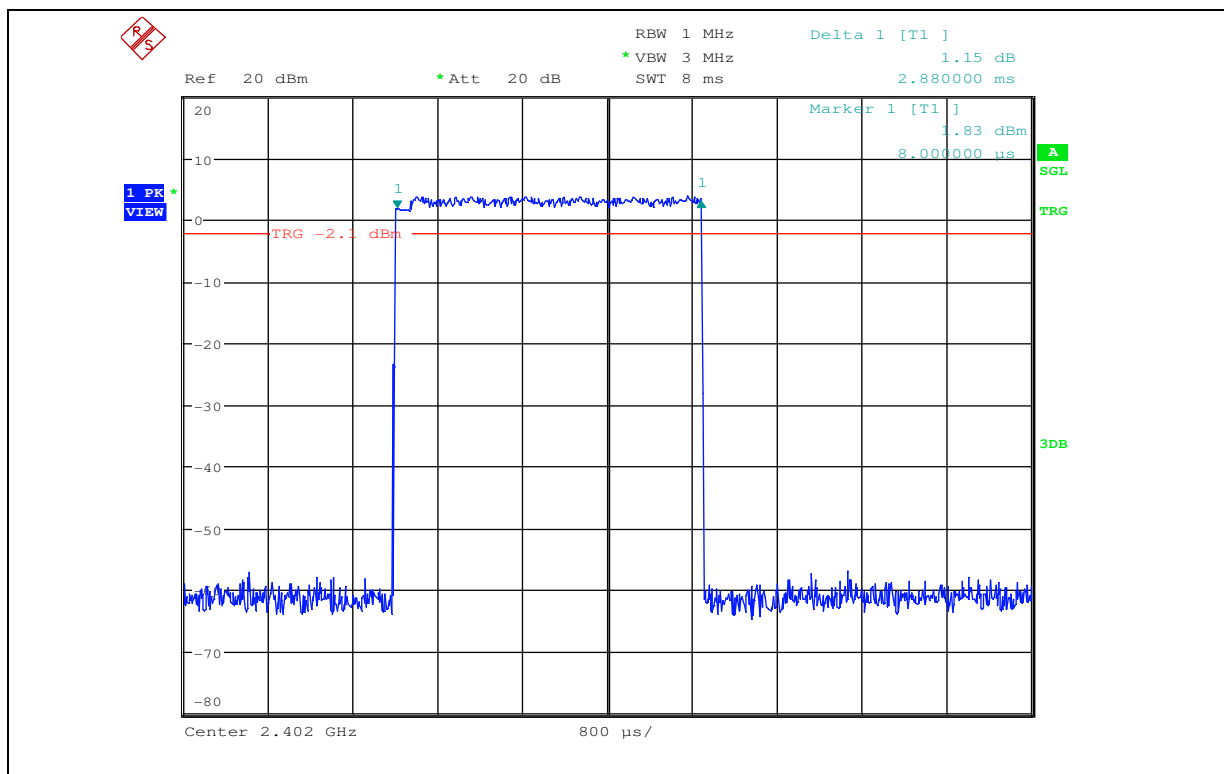
Dwell Time\_2DH1\_2402



Dwell Time\_2DH3\_2402

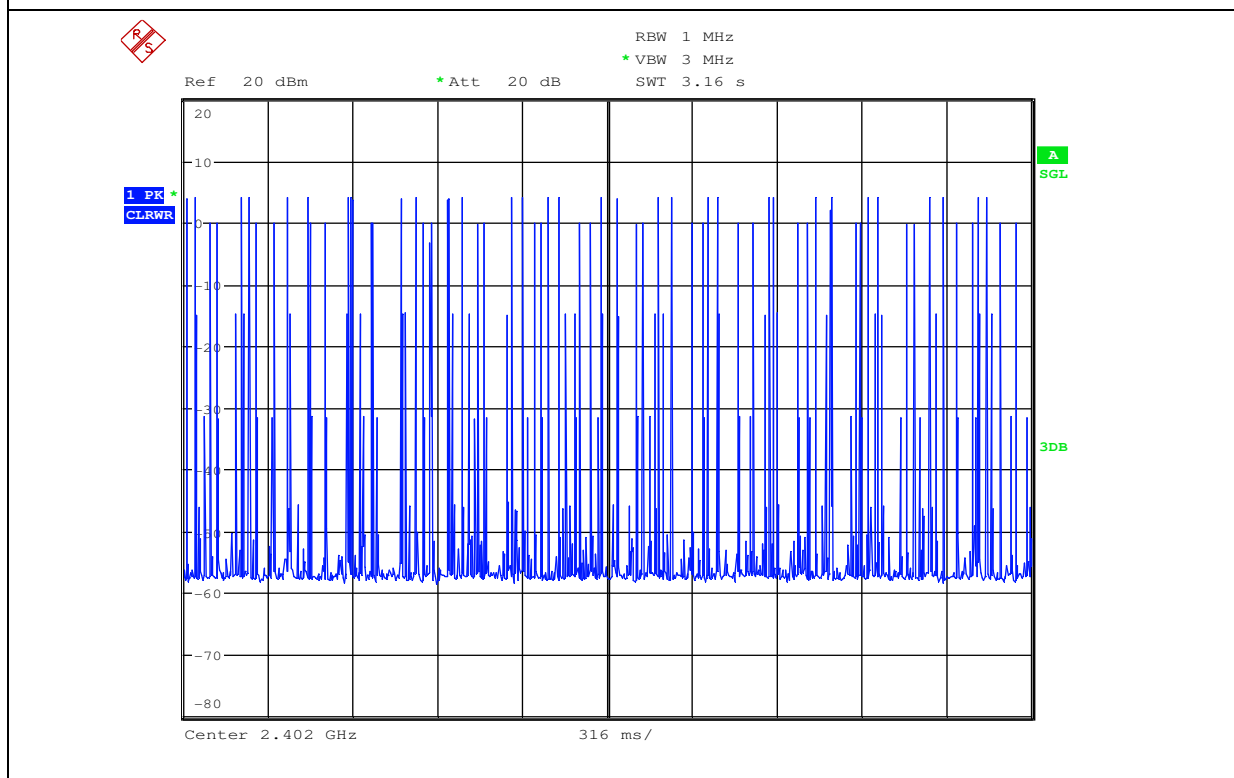
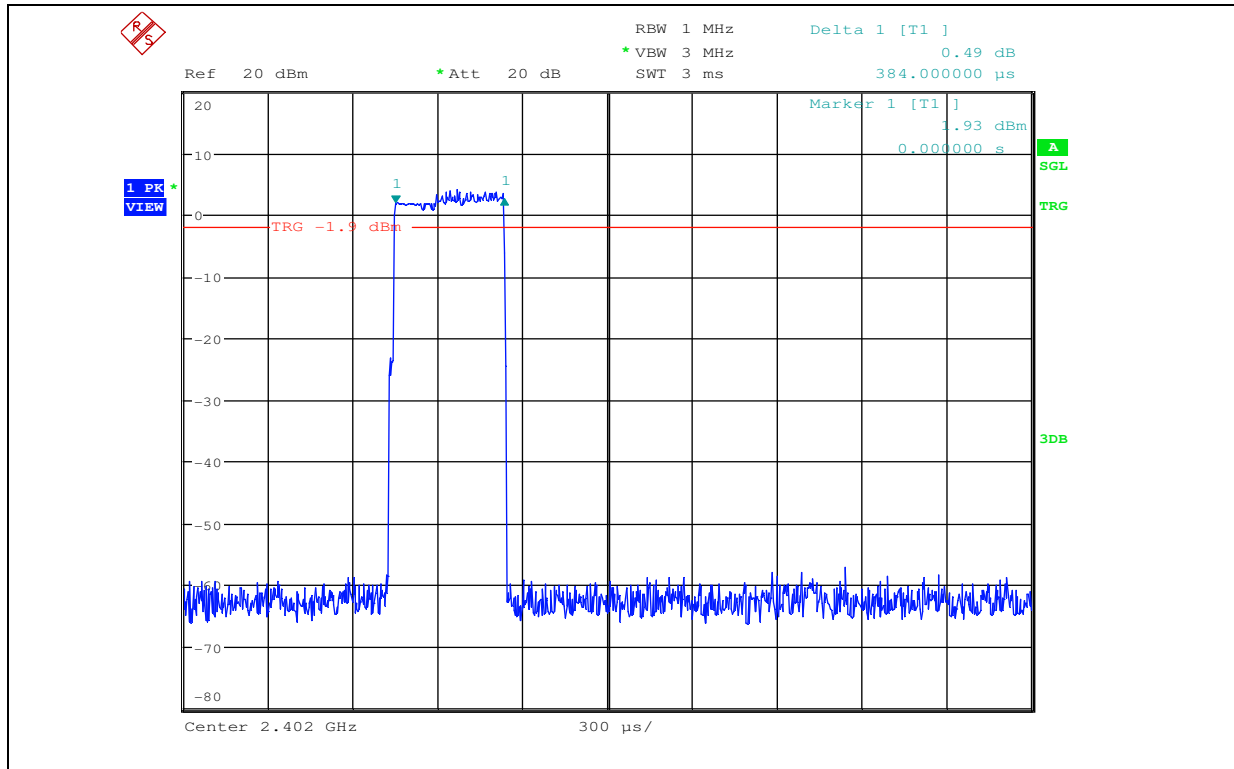


Dwell Time\_2DH5\_2402



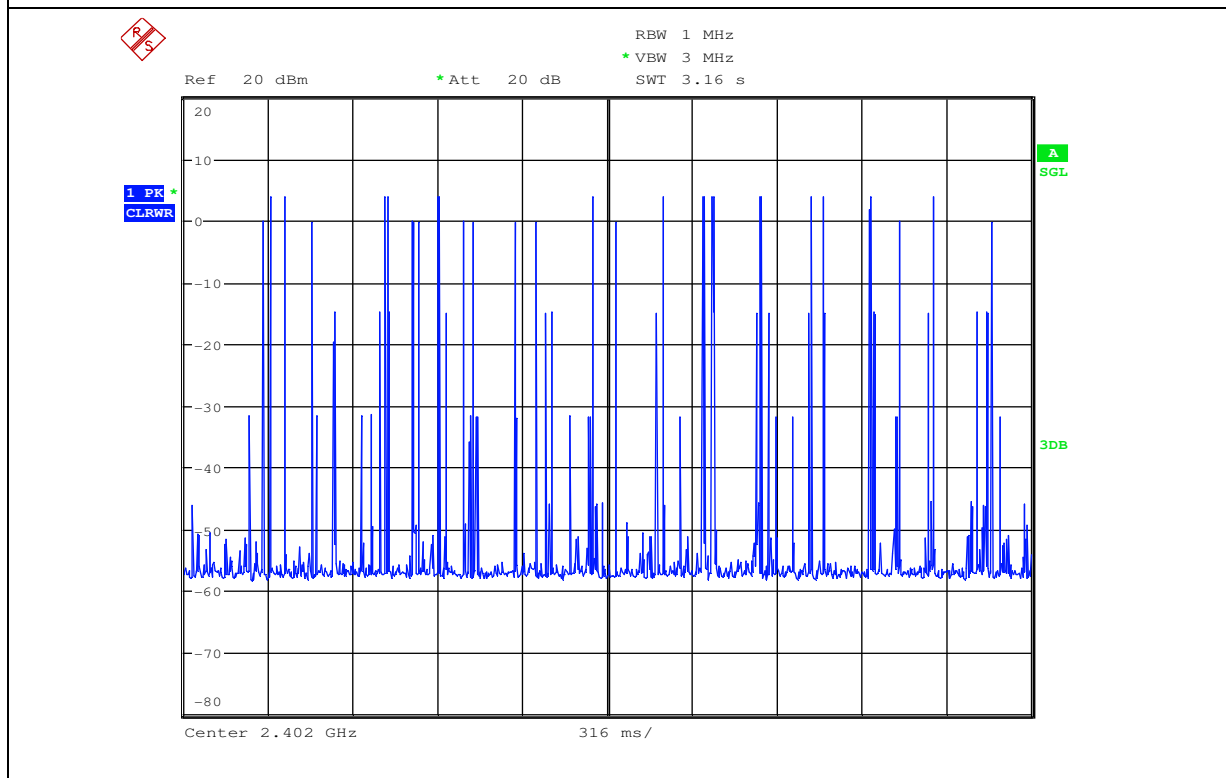
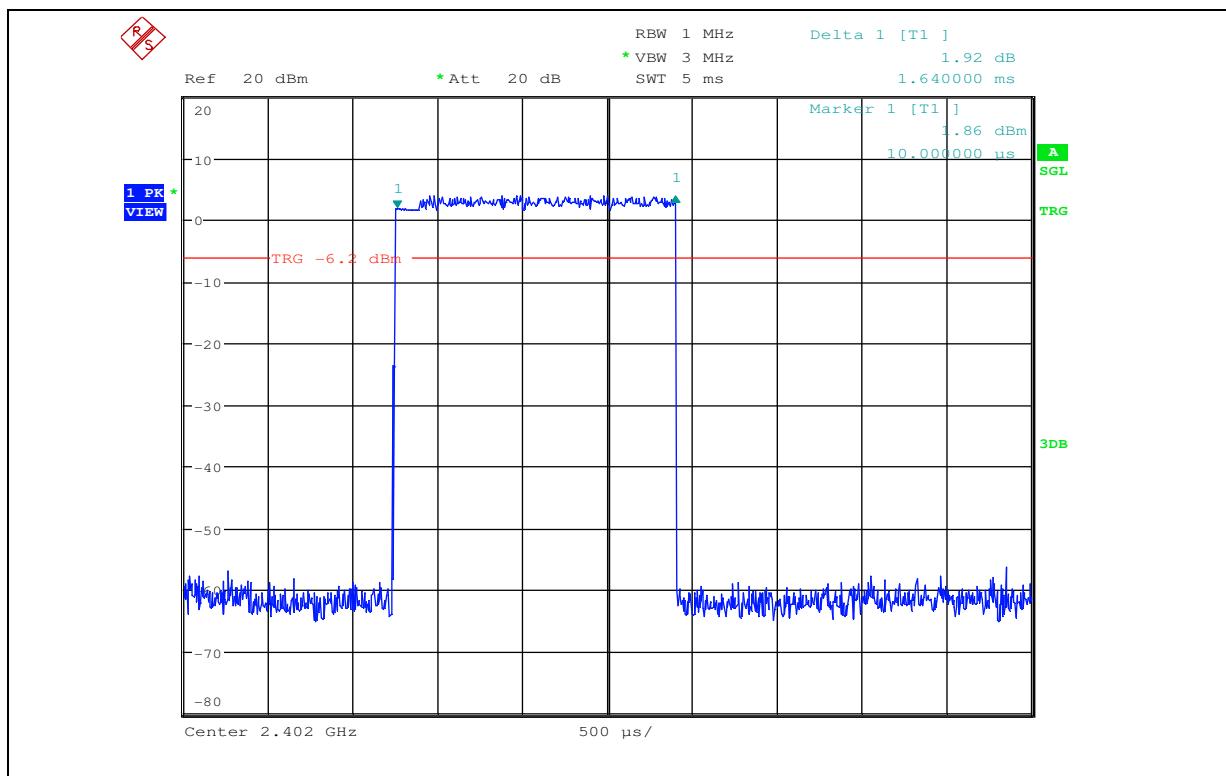
Dwell Time\_3DH1\_2402



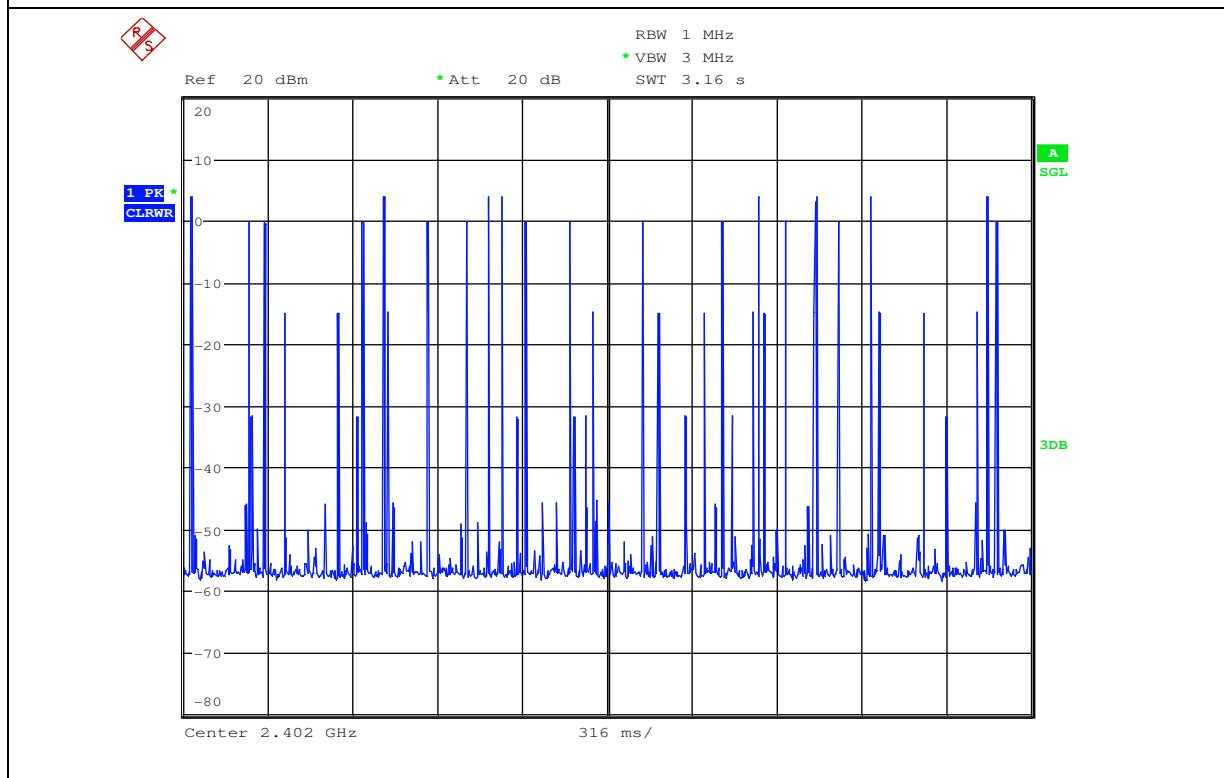
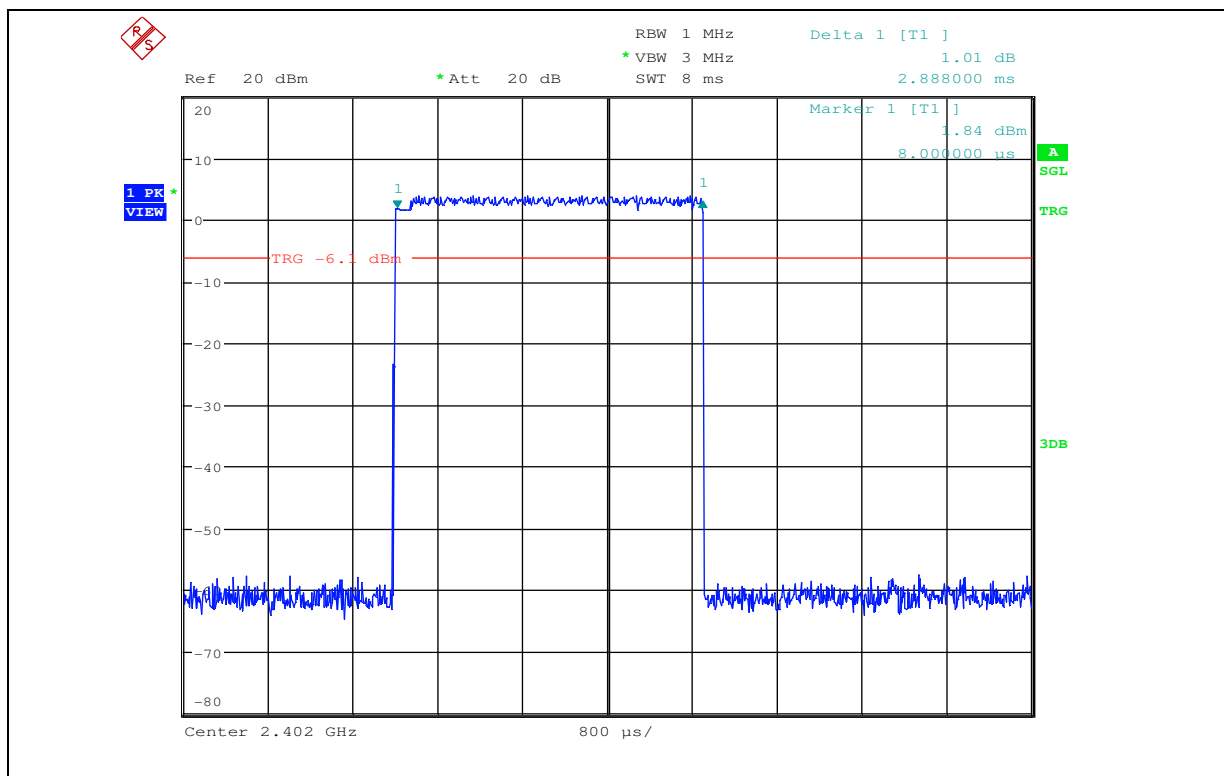


Dwell Time\_3DH3\_2402





Dwell Time\_3DH5\_2402





**5.Hopping Channel Number**

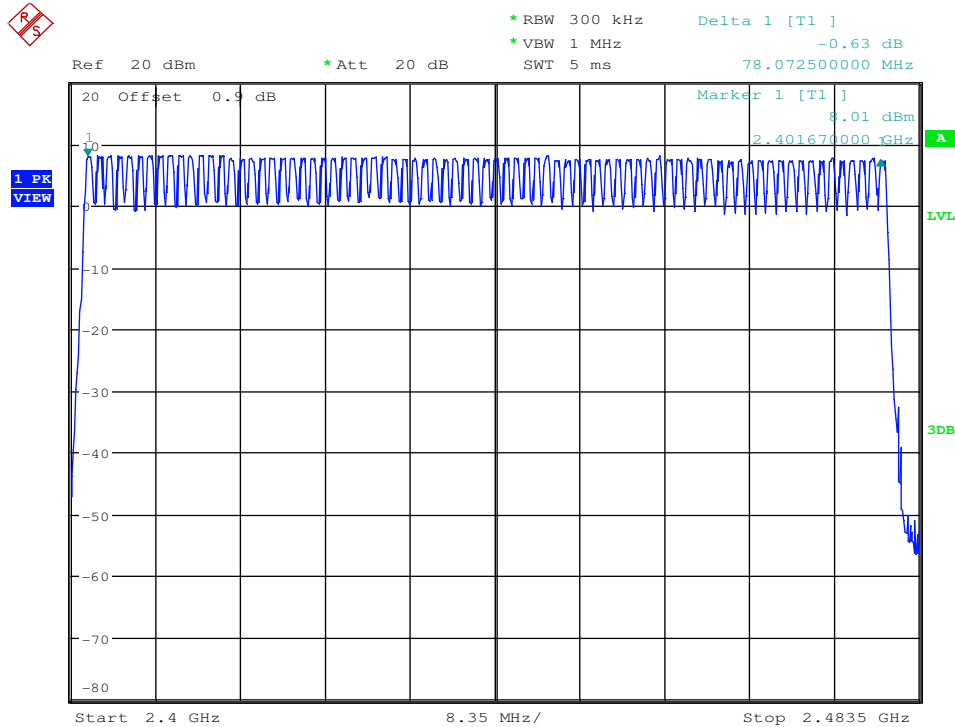
Test Mode	Test Channel	Number of Hopping Channel[N]	Limit[N]	Verdict
DH5	2402	79	$\geq 15$	PASS
2DH5	2402	79	$\geq 15$	PASS
3DH5	2402	79	$\geq 15$	PASS



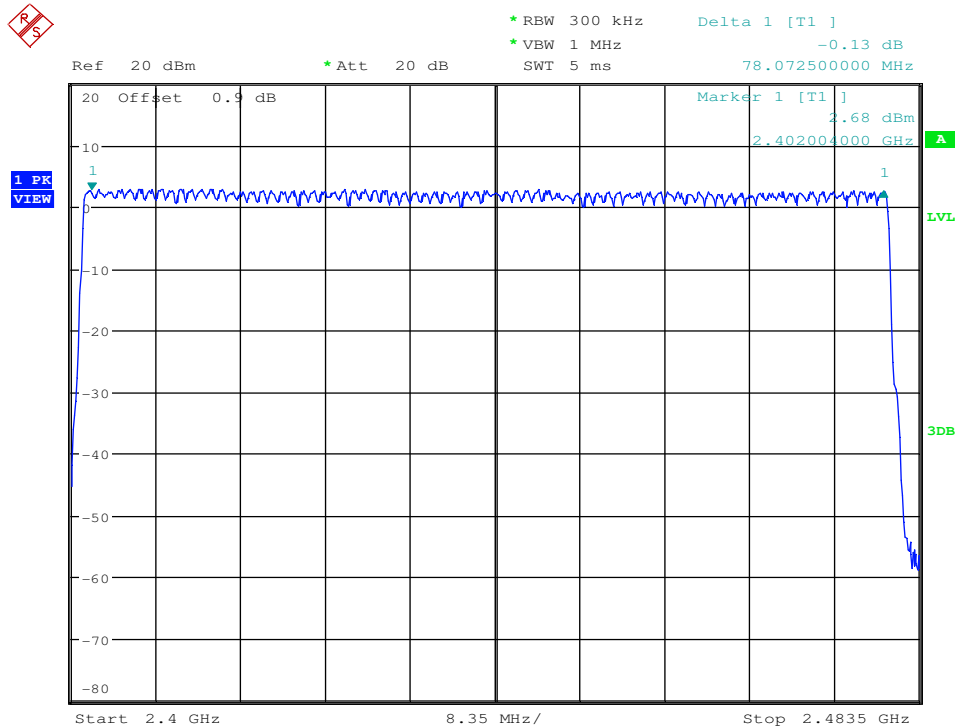
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### Hopping Channel Number\_DH5\_2402

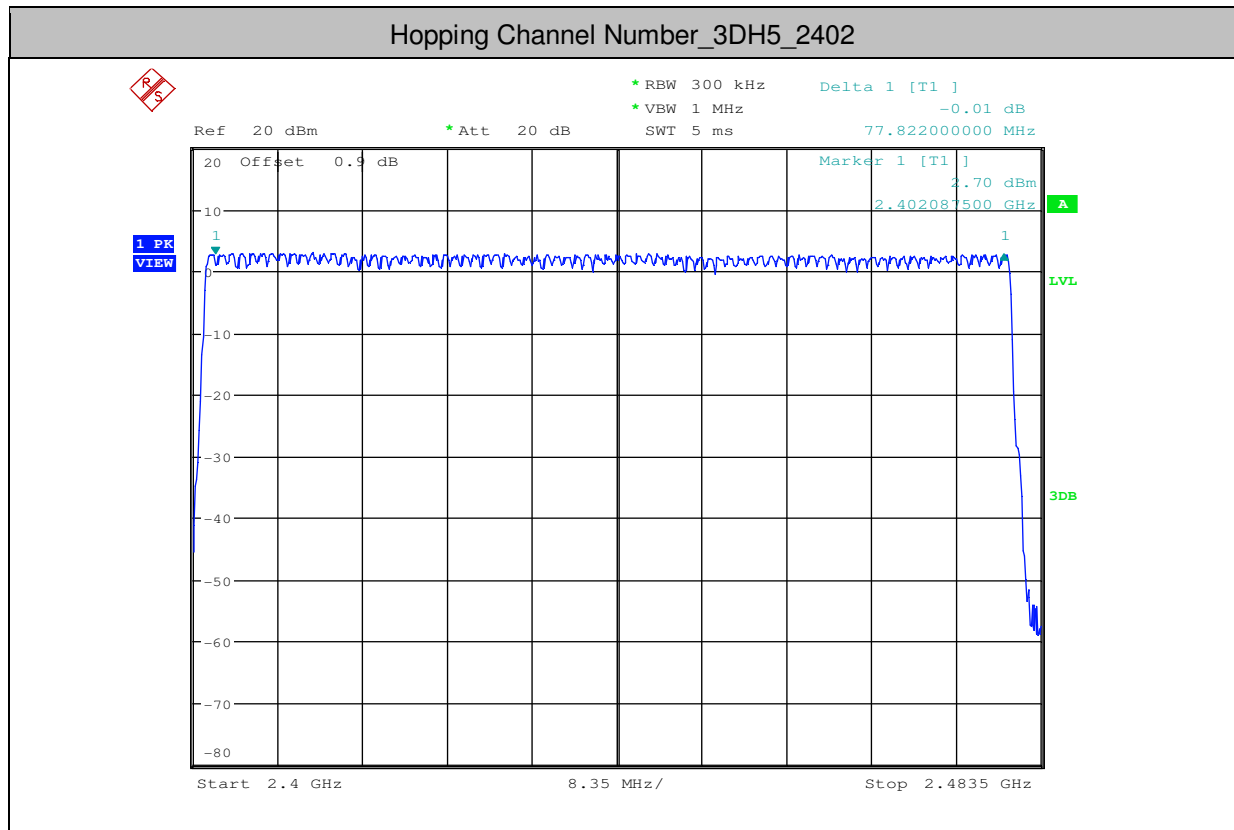


### Hopping Channel Number\_2DH5\_2402



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## 6.Band-edge for RF Conducted Emissions

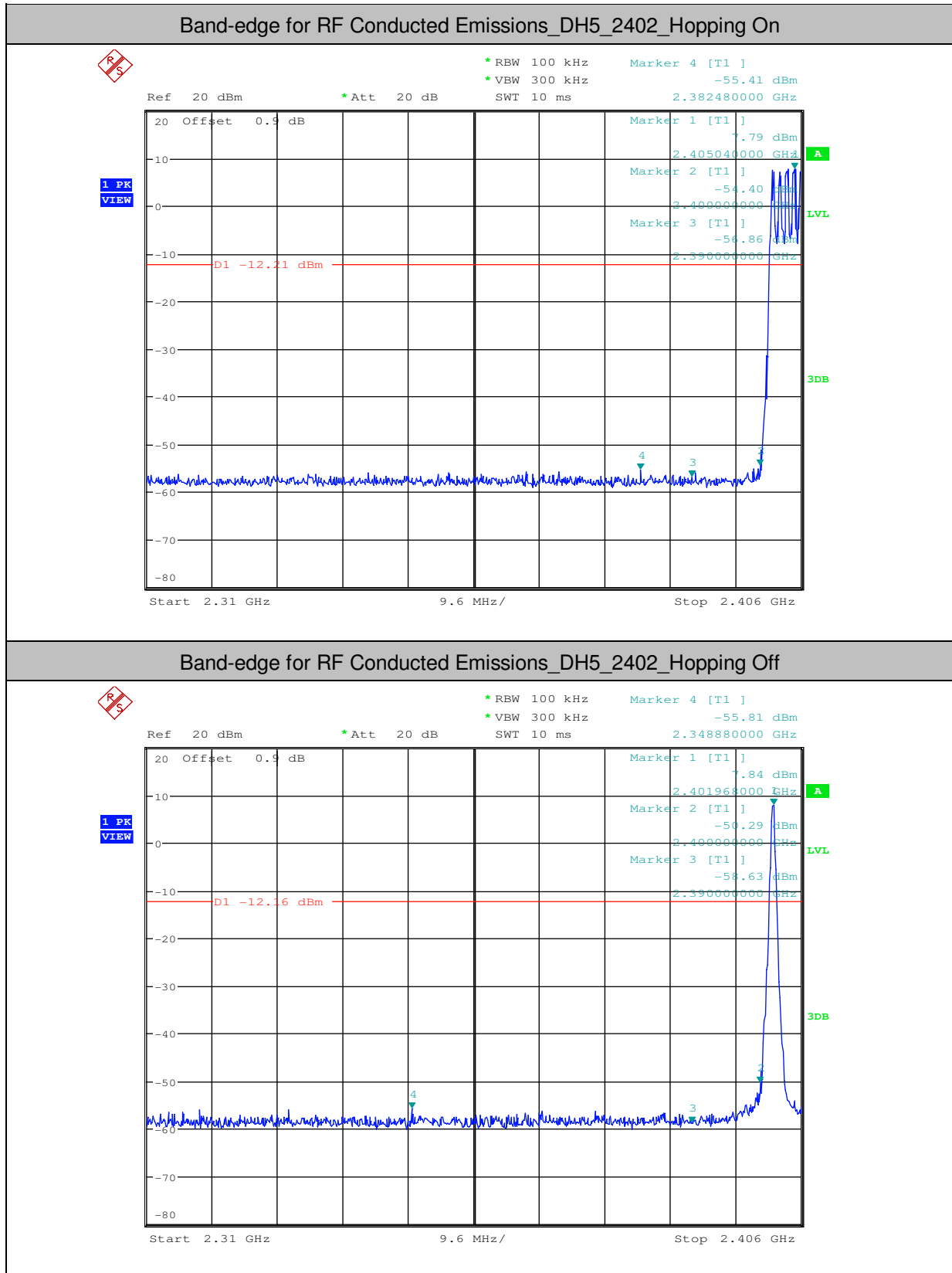
Test Mode	Test Channel	Hopping	Carrier Power[dBm]	Max. Spurious Level [dBm]	Limit[dBm]	Verdict
DH5	2402	On	7.790	-55.409	<-12.21	PASS
DH5	2402	Off	7.840	-55.809	<-12.16	PASS
DH5	2480	On	7.010	-55.100	<-12.99	PASS
DH5	2480	Off	7.080	-54.821	<-12.92	PASS
2DH5	2402	On	2.050	-55.366	<-17.95	PASS
2DH5	2402	Off	2.400	-55.981	<-17.6	PASS
2DH5	2480	On	1.290	-56.063	<-18.71	PASS
2DH5	2480	Off	1.940	-55.496	<-18.06	PASS
3DH5	2402	On	1.310	-55.474	<-18.69	PASS
3DH5	2402	Off	2.350	-55.798	<-17.65	PASS
3DH5	2480	On	1.590	-55.562	<-18.41	PASS
3DH5	2480	Off	2.120	-55.485	<-17.88	PASS



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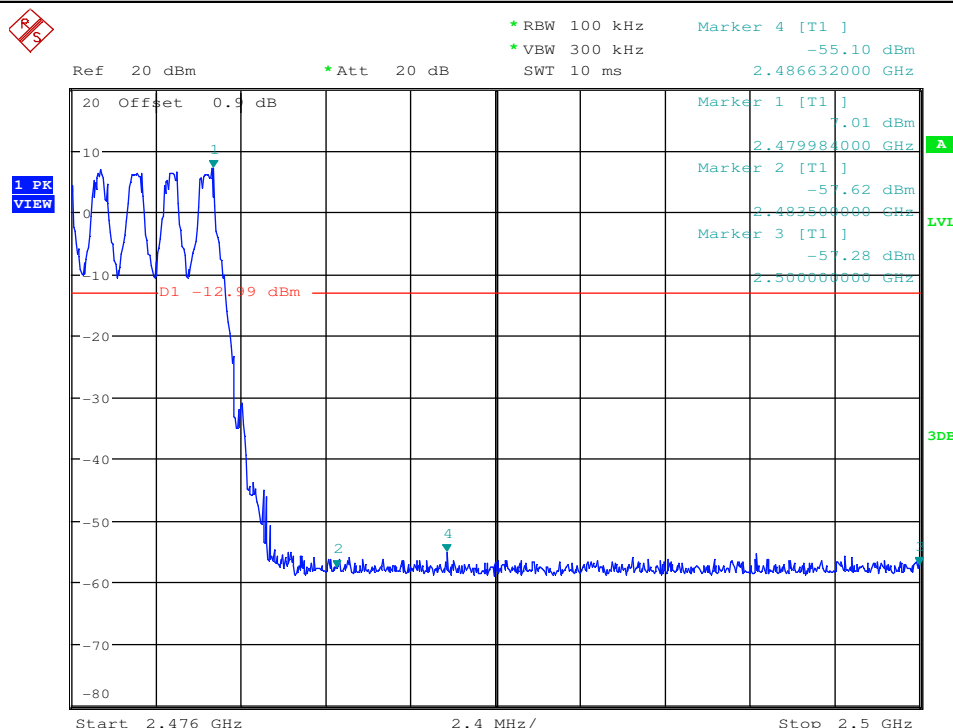


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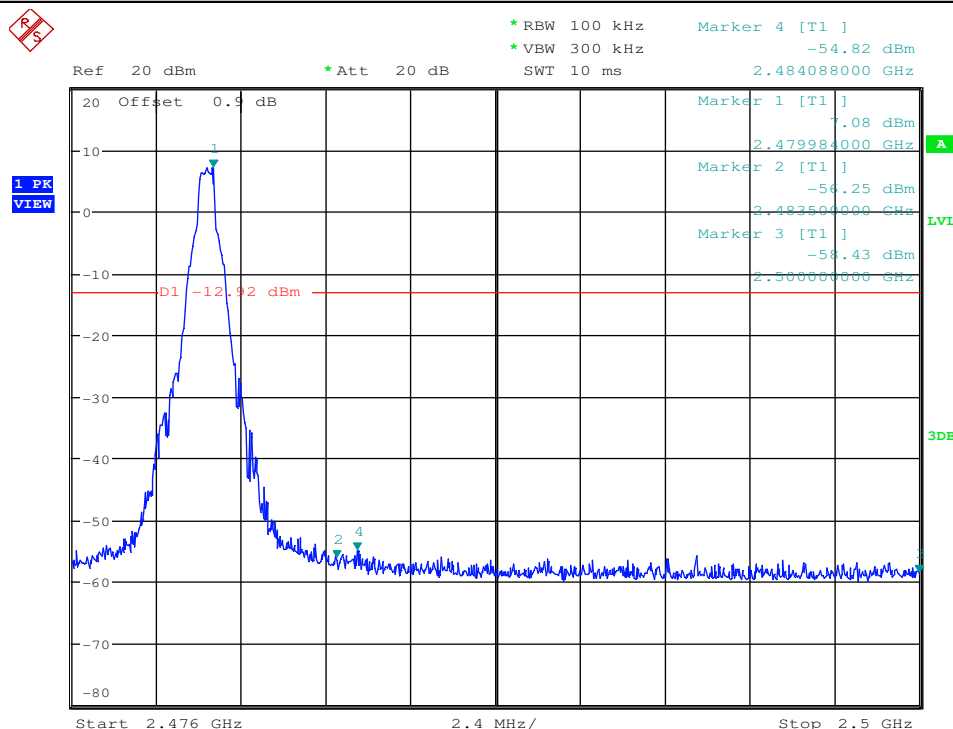
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### Band-edge for RF Conducted Emissions\_DH5\_2480\_Hopping On

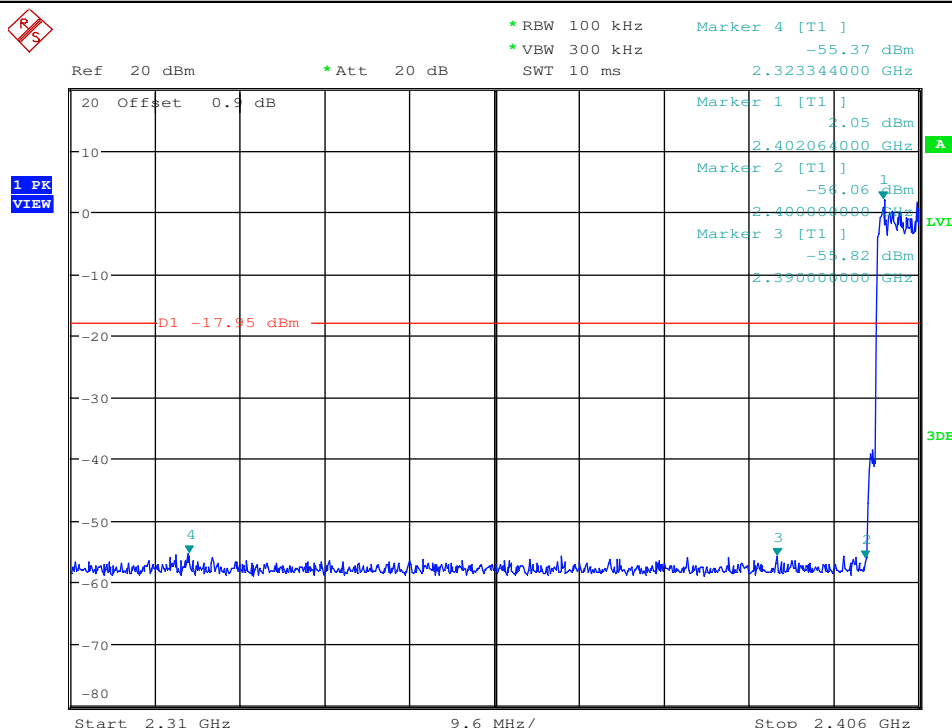


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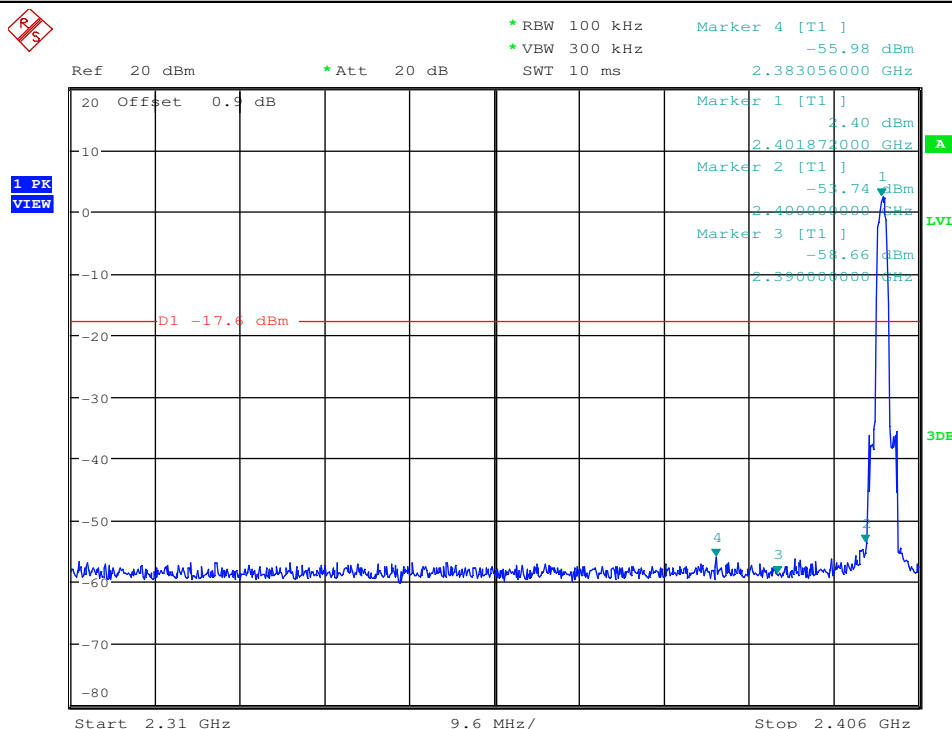




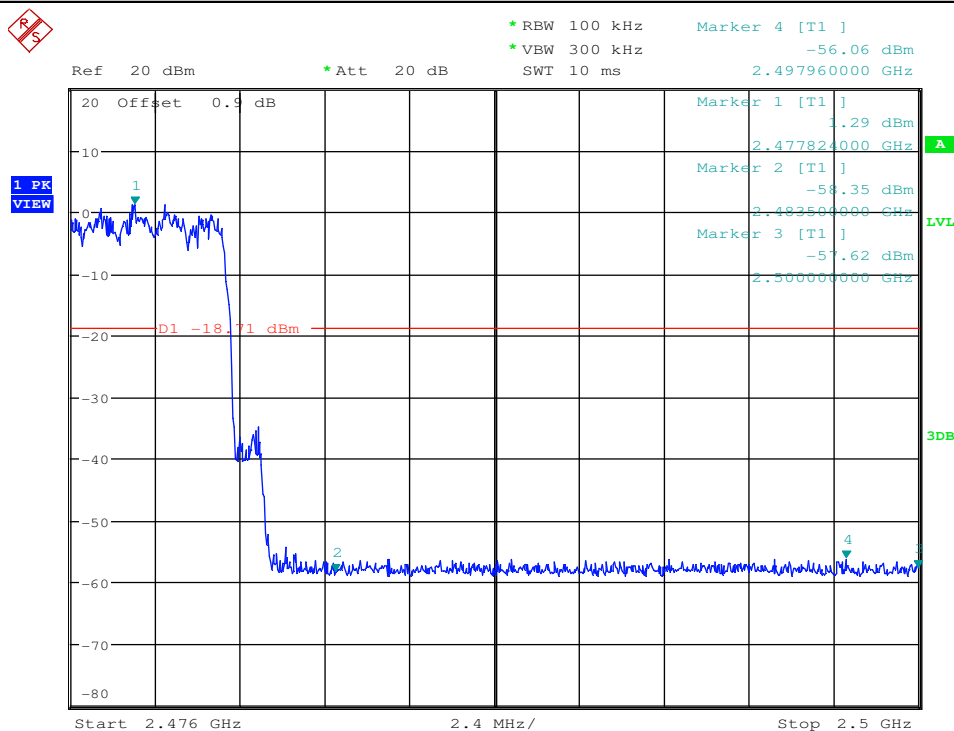
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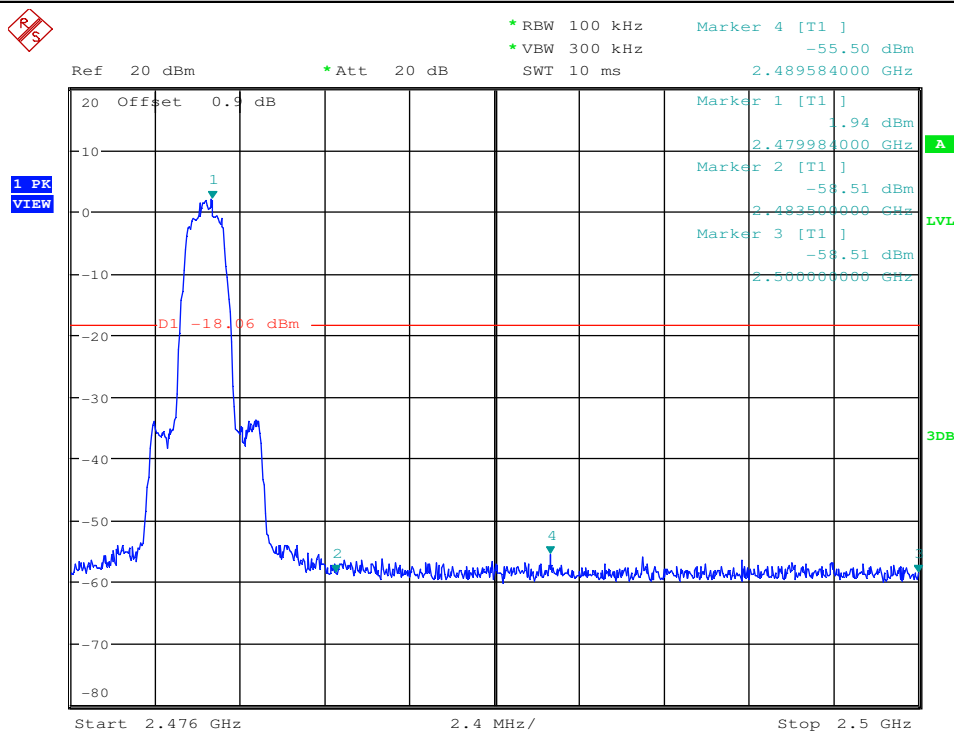
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### Band-edge for RF Conducted Emissions\_2DH5\_2480\_Hopping On



### Band-edge for RF Conducted Emissions\_2DH5\_2480\_Hopping Off



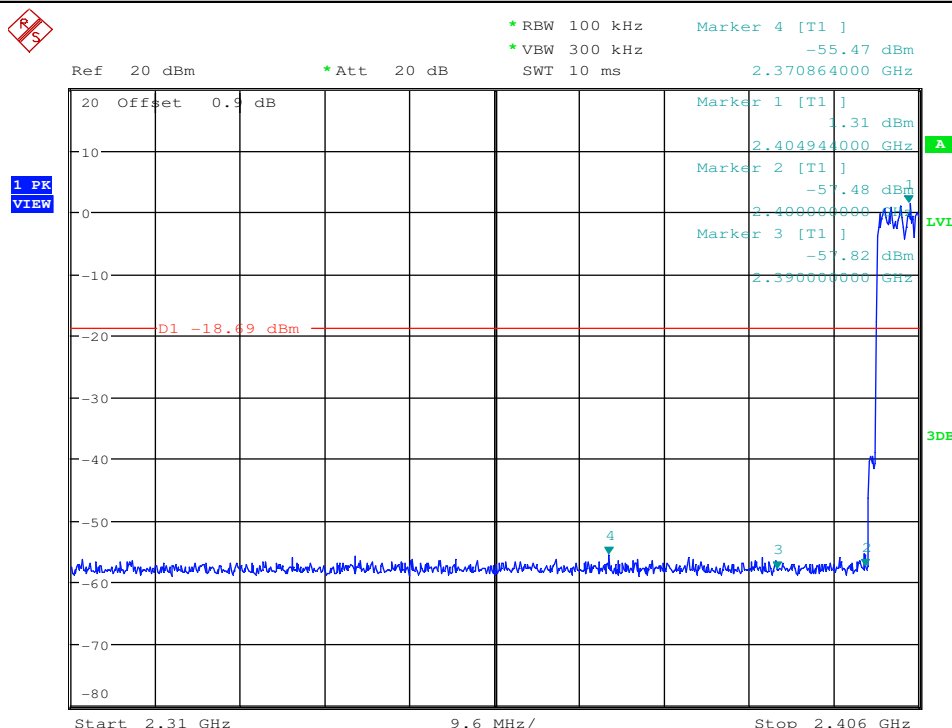
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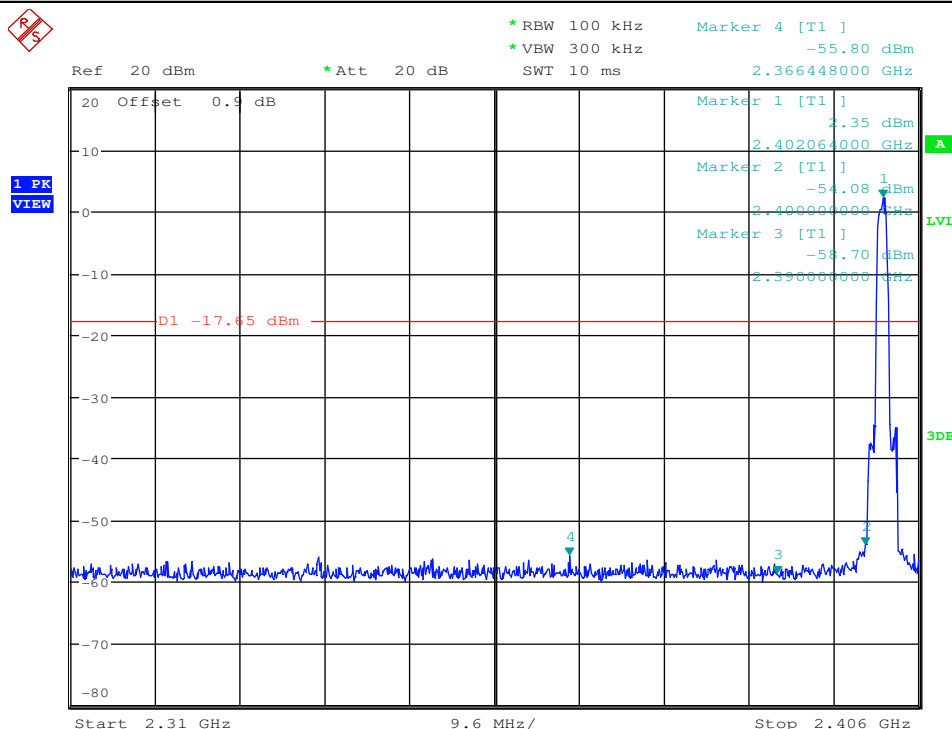
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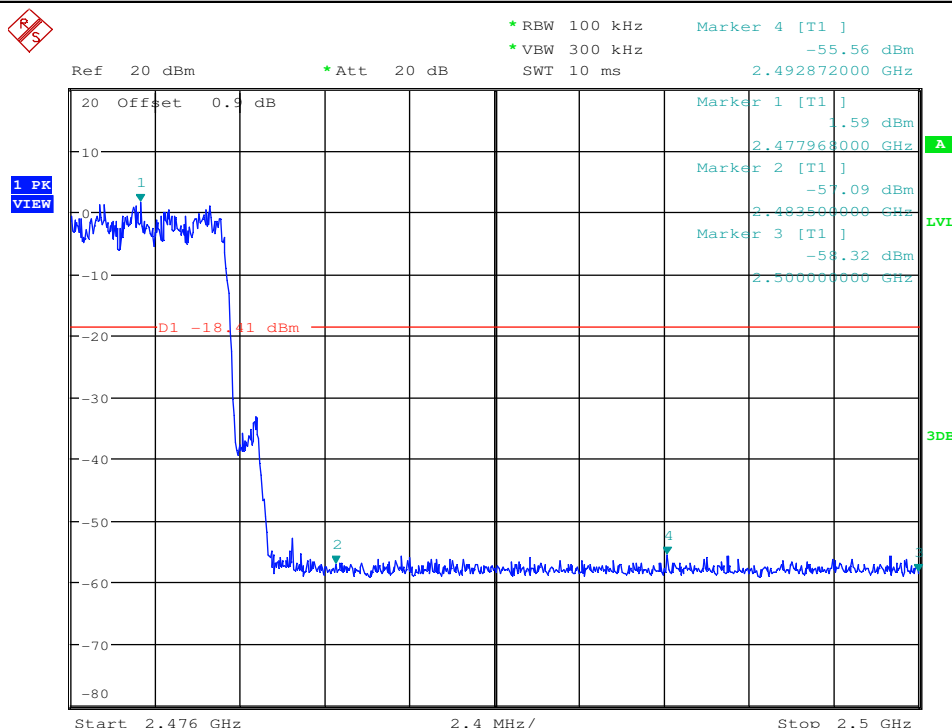
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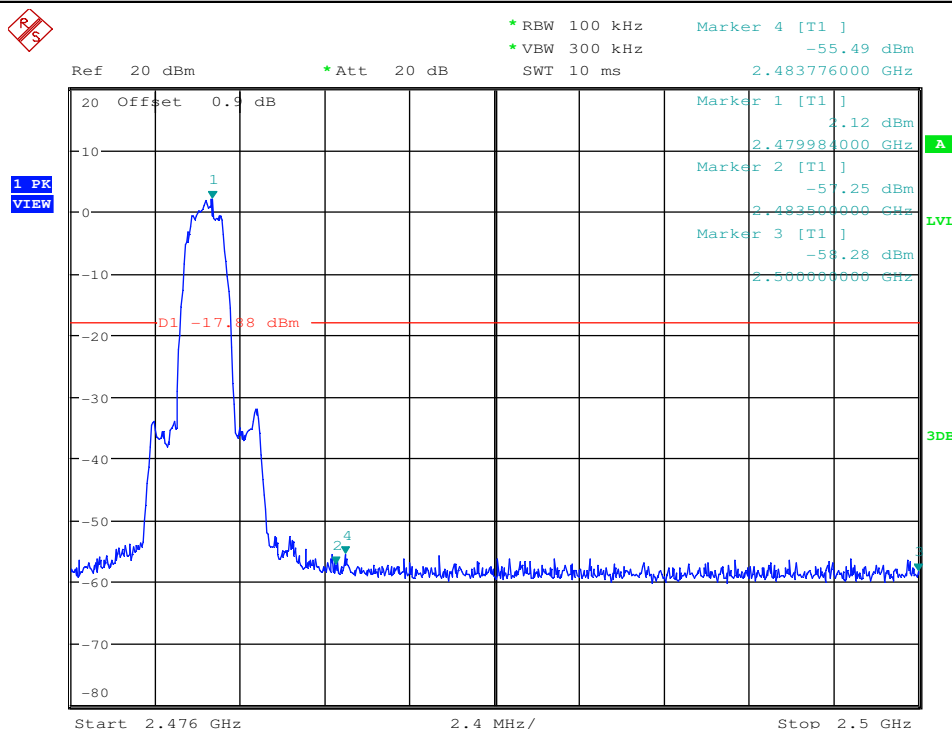
### Band-edge for RF Conducted Emissions\_3DH5\_2402\_Hopping Off



### Band-edge for RF Conducted Emissions\_3DH5\_2480\_Hopping On



### Band-edge for RF Conducted Emissions\_3DH5\_2480\_Hopping Off



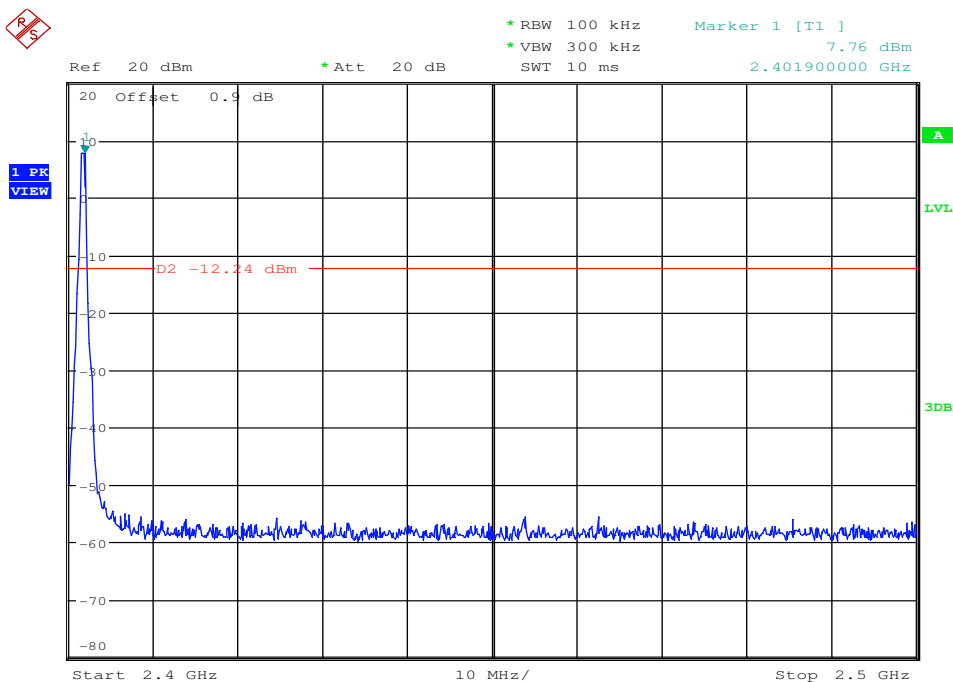


## 7.RF Conducted Spurious Emissions

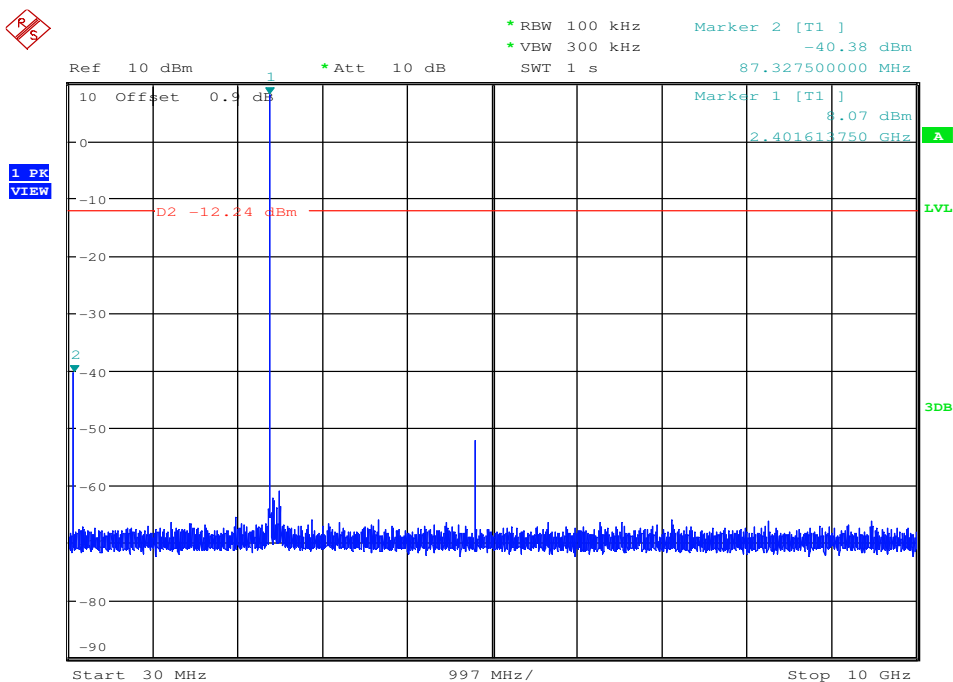
Test Mode	Test Channel	StartFre [MHz]	StopFre [MHz]	RBW [kHz]	VBW [kHz]	Pref[dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
DH5	2402	30	10000	100	300	7.76	-40.380	<-12.24	PASS
DH5	2402	10000	25000	100	300	7.76	-65.880	<-12.24	PASS
DH5	2441	30	10000	100	300	7.43	-40.360	<-12.57	PASS
DH5	2441	10000	25000	100	300	7.43	-65.680	<-12.57	PASS
DH5	2480	30	10000	100	300	7.28	-40.380	<-12.72	PASS
DH5	2480	10000	25000	100	300	7.28	-66.020	<-12.72	PASS
2DH5	2402	30	10000	100	300	2.27	-51.570	<-17.73	PASS
2DH5	2402	10000	25000	100	300	2.27	-65.970	<-17.73	PASS
2DH5	2441	30	10000	100	300	2.16	-51.620	<-17.84	PASS
2DH5	2441	10000	25000	100	300	2.16	-65.790	<-17.84	PASS
2DH5	2480	30	10000	100	300	2.07	-49.580	<-17.93	PASS
2DH5	2480	10000	25000	100	300	2.07	-65.660	<-17.93	PASS
3DH5	2402	30	10000	100	300	2.4	-50.780	<-17.6	PASS
3DH5	2402	10000	25000	100	300	2.4	-65.720	<-17.6	PASS
3DH5	2441	30	10000	100	300	2.12	-49.470	<-17.88	PASS
3DH5	2441	10000	25000	100	300	2.12	-66.060	<-17.88	PASS
3DH5	2480	30	10000	100	300	2.07	-50.570	<-17.93	PASS
3DH5	2480	10000	25000	100	300	2.07	-65.540	<-17.93	PASS

### RF Conducted Spurious Emissions\_DH5\_2402

Pref



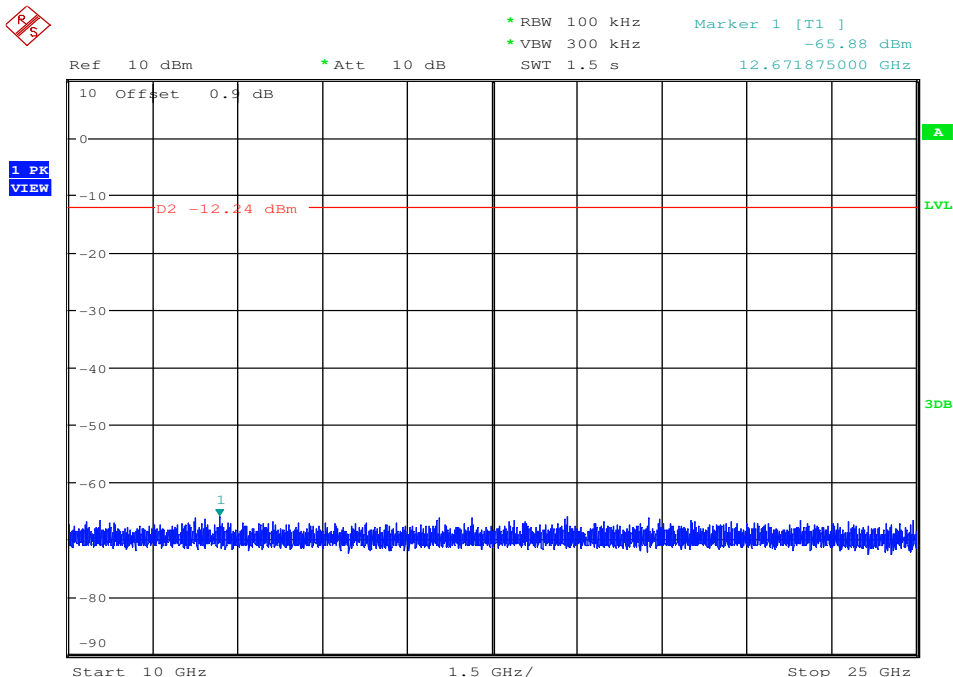
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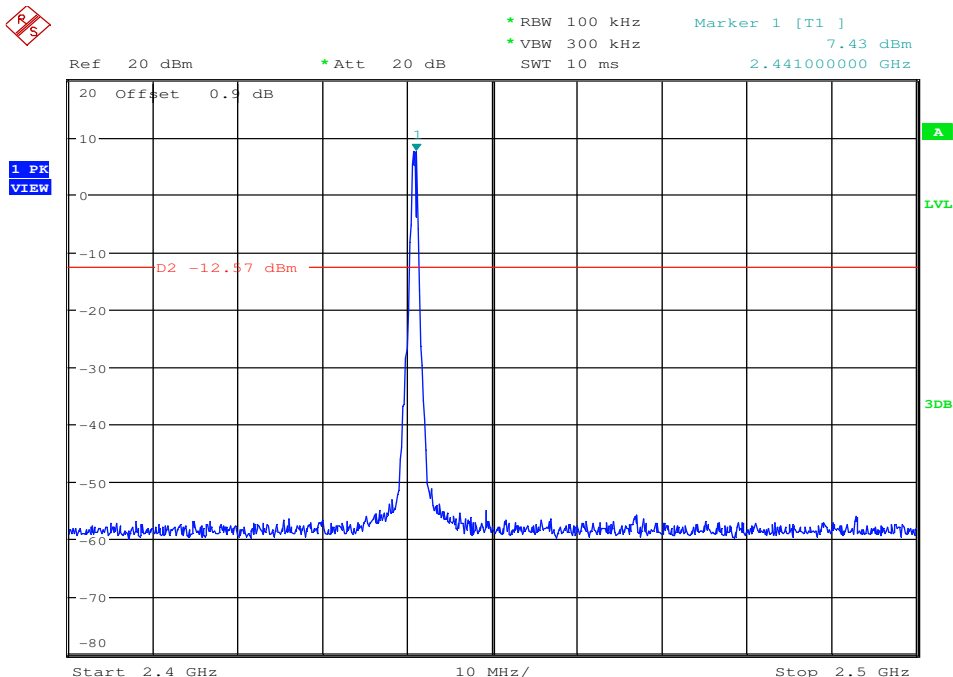
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CSE\_2

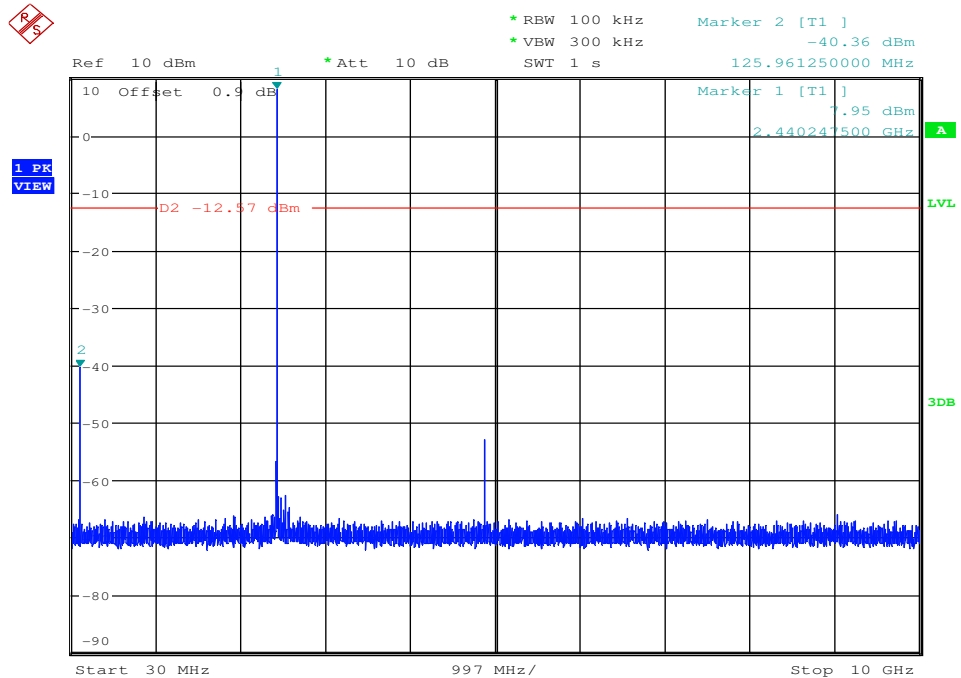


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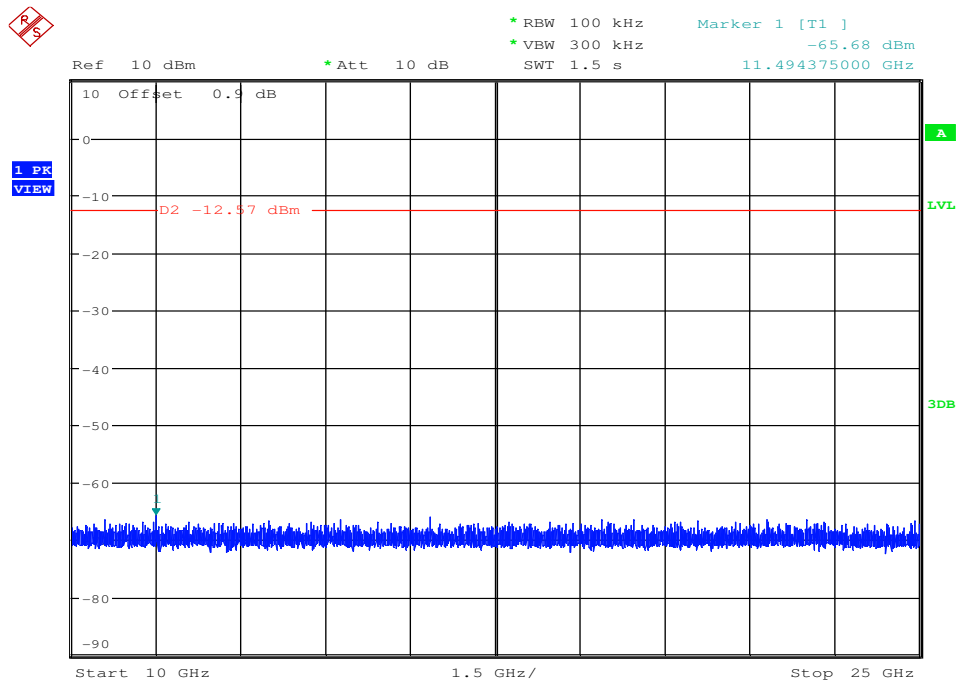
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CSE\_1



CSE\_2



RF Conducted Spurious Emissions\_DH5\_2480

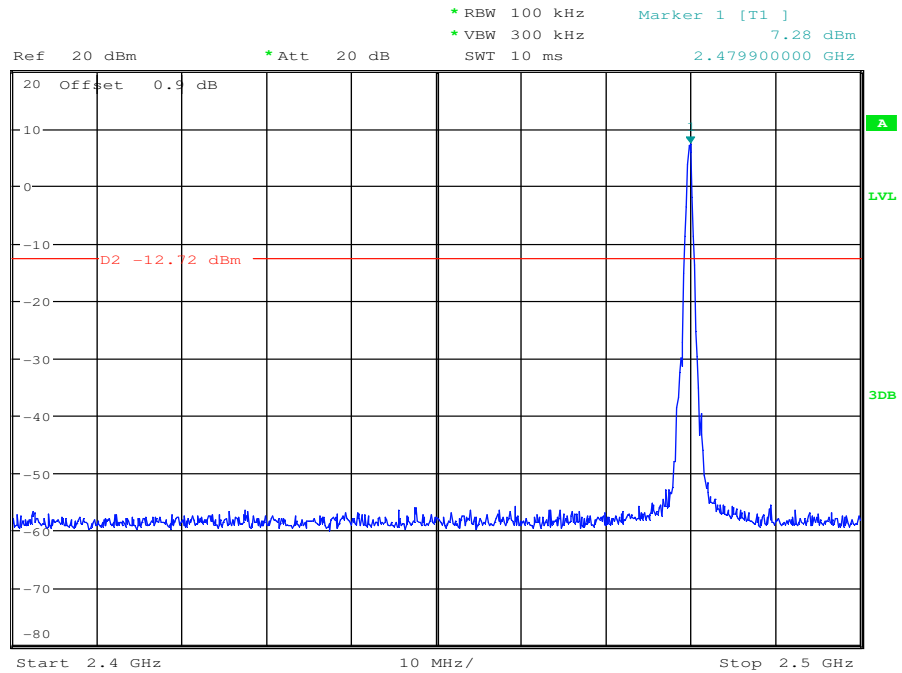




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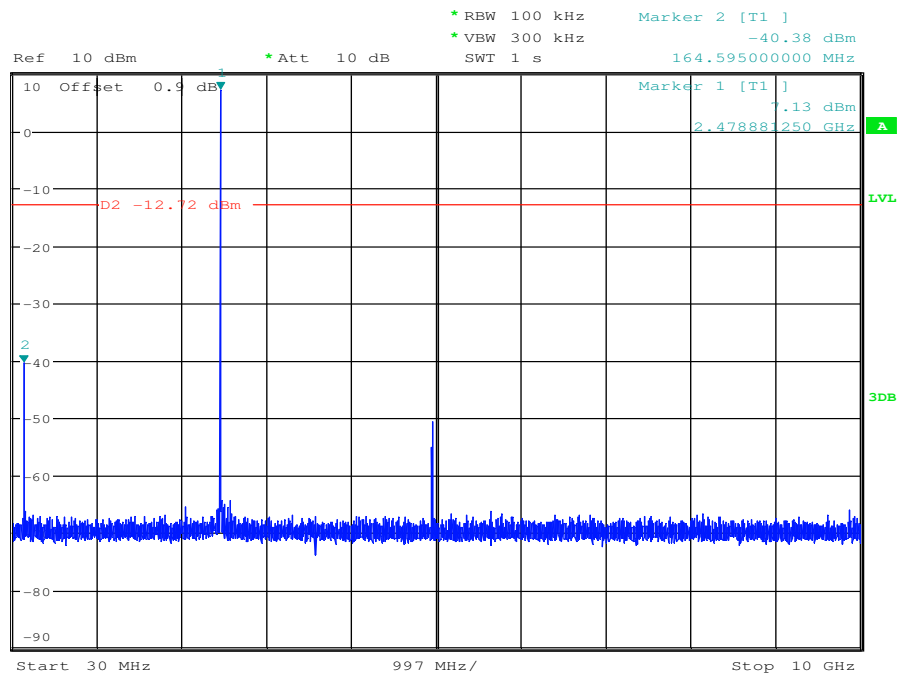
1 PK  
VIEW



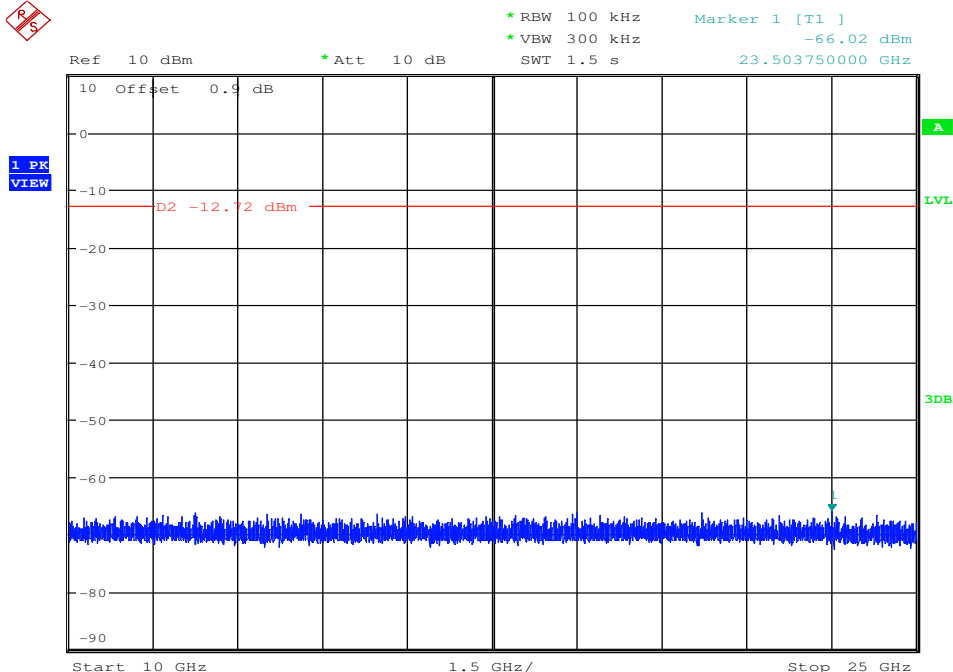
CSE\_1



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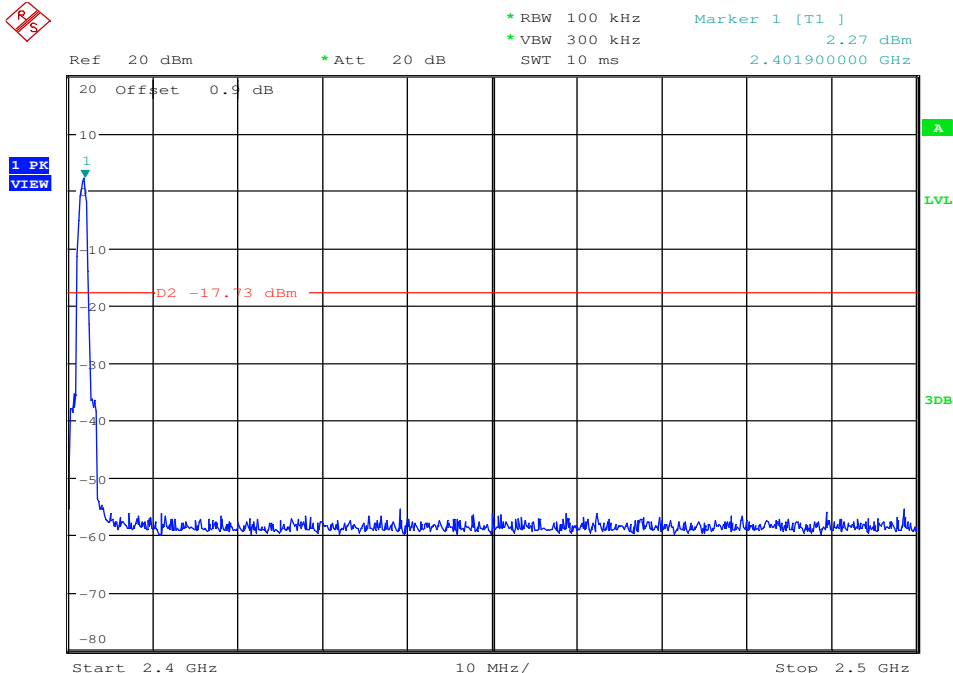


CSE\_2



### RF Conducted Spurious Emissions\_2DH5\_2402

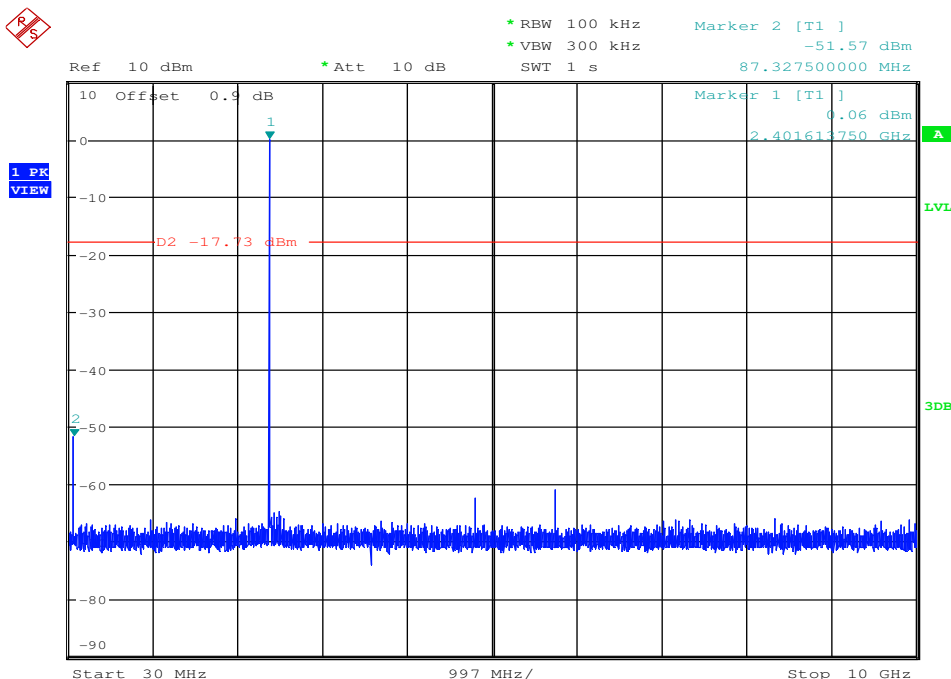
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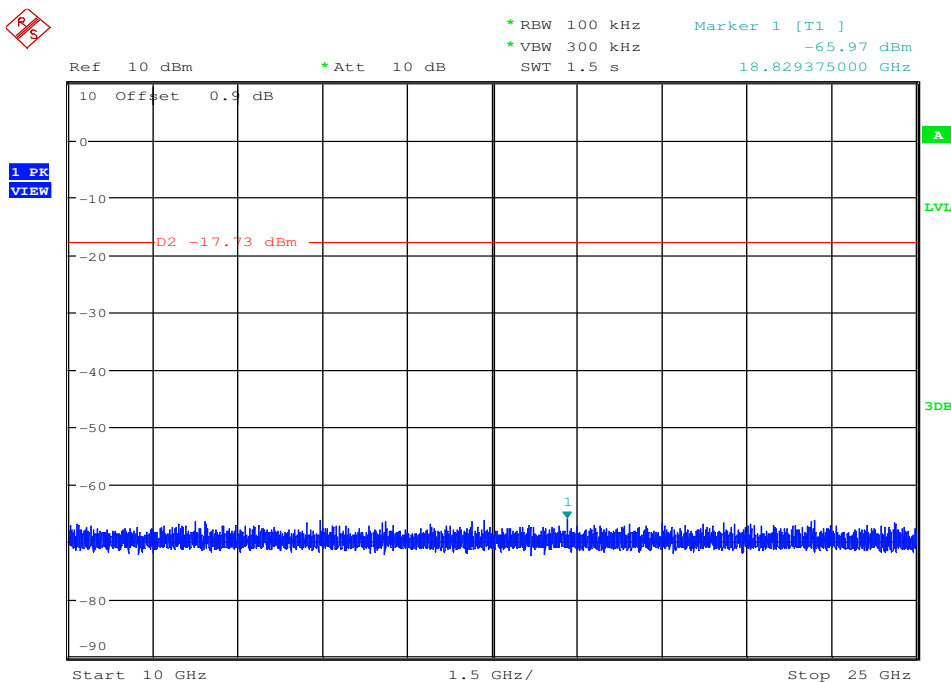
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CSE\_1



CSE\_2



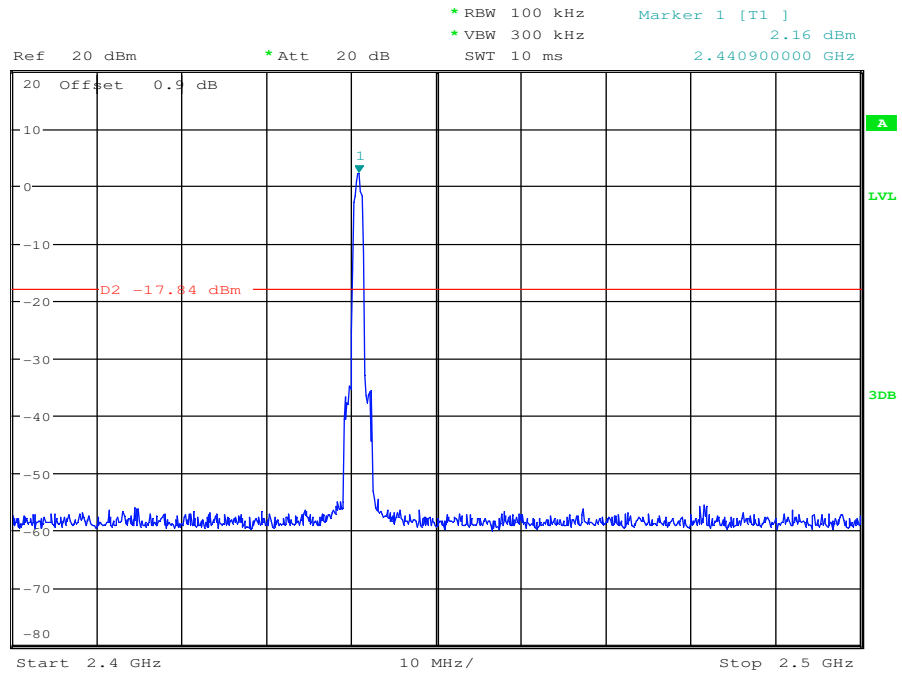
RF Conducted Spurious Emissions\_2DH5\_2441



Pref



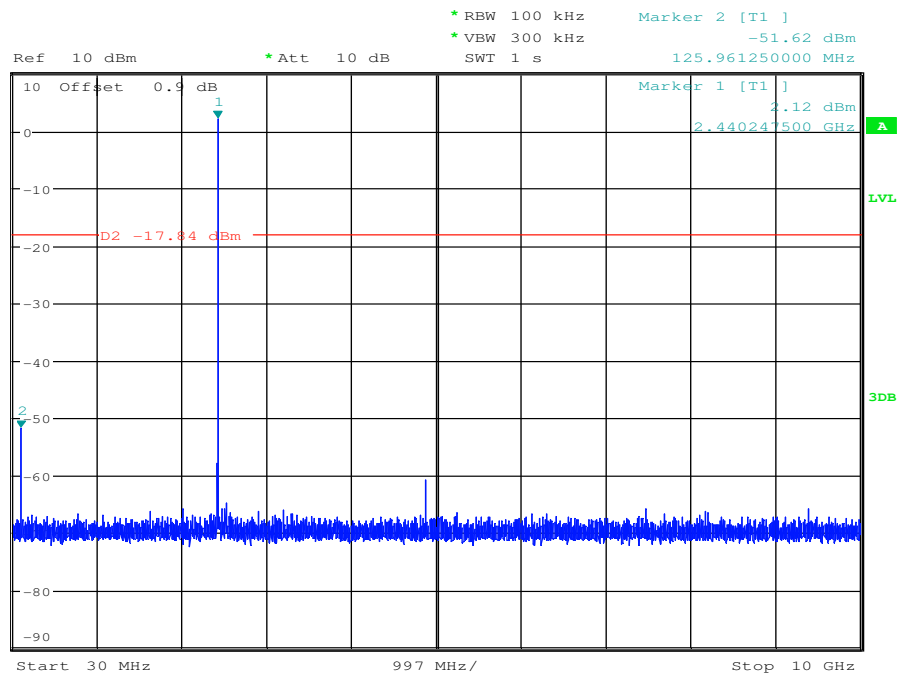
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CSE\_1



1 PK  
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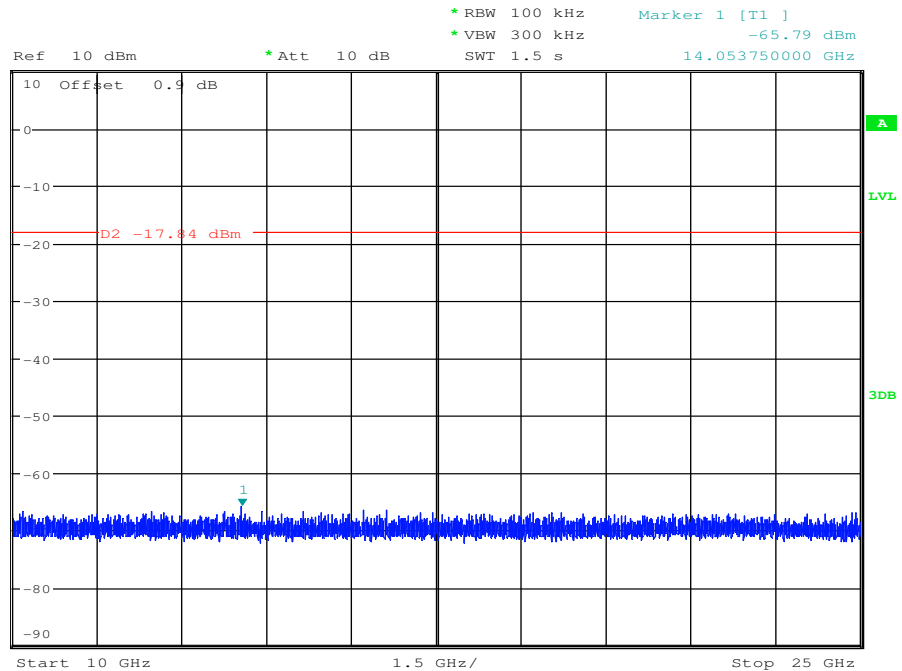




CSE\_2



1 PK  
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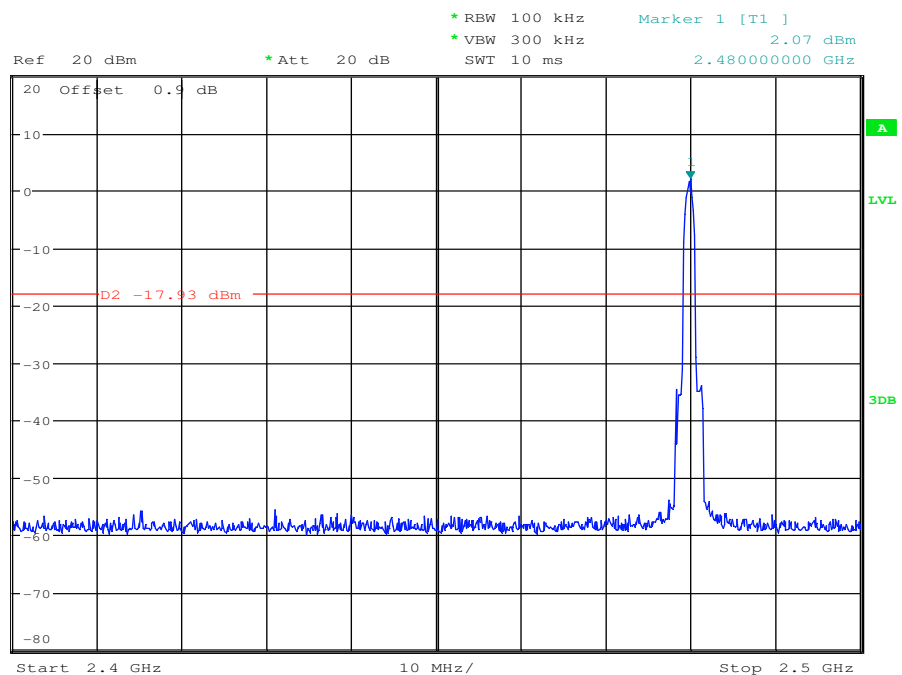


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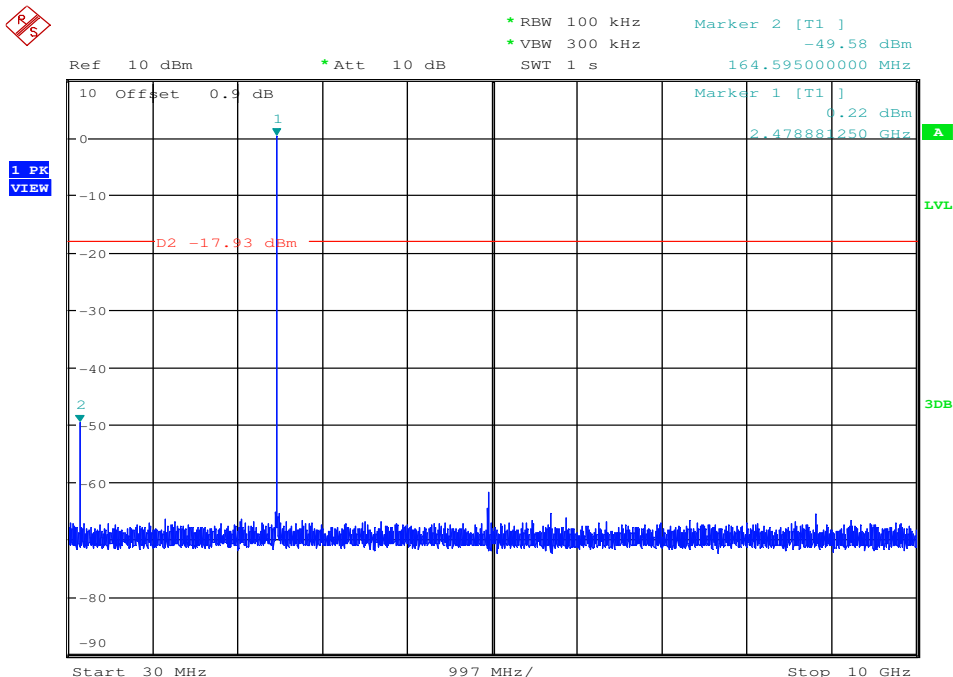
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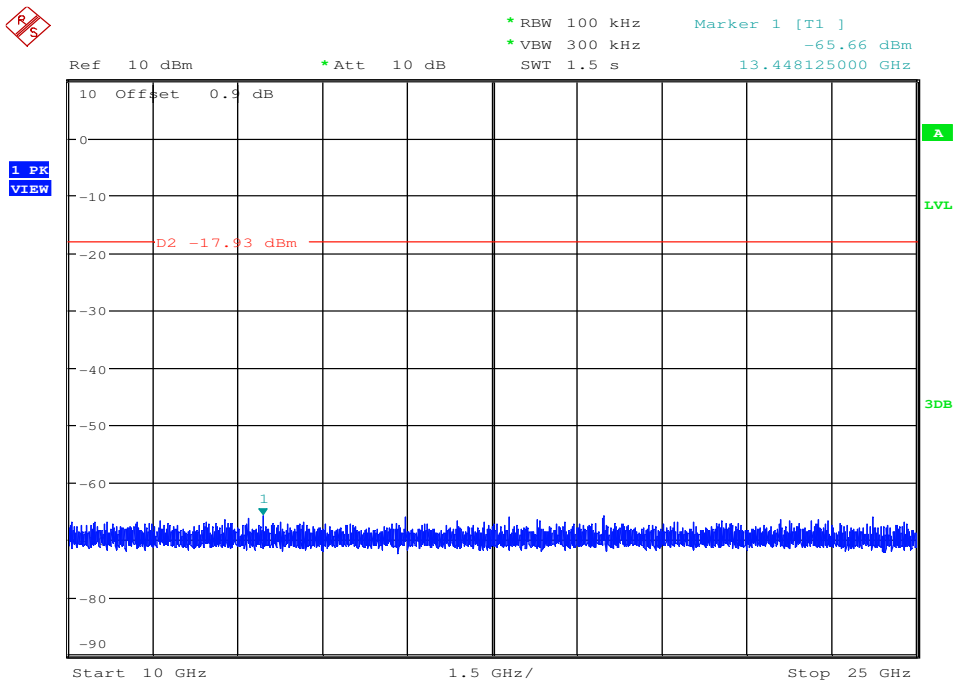
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CSE\_1



CSE\_2



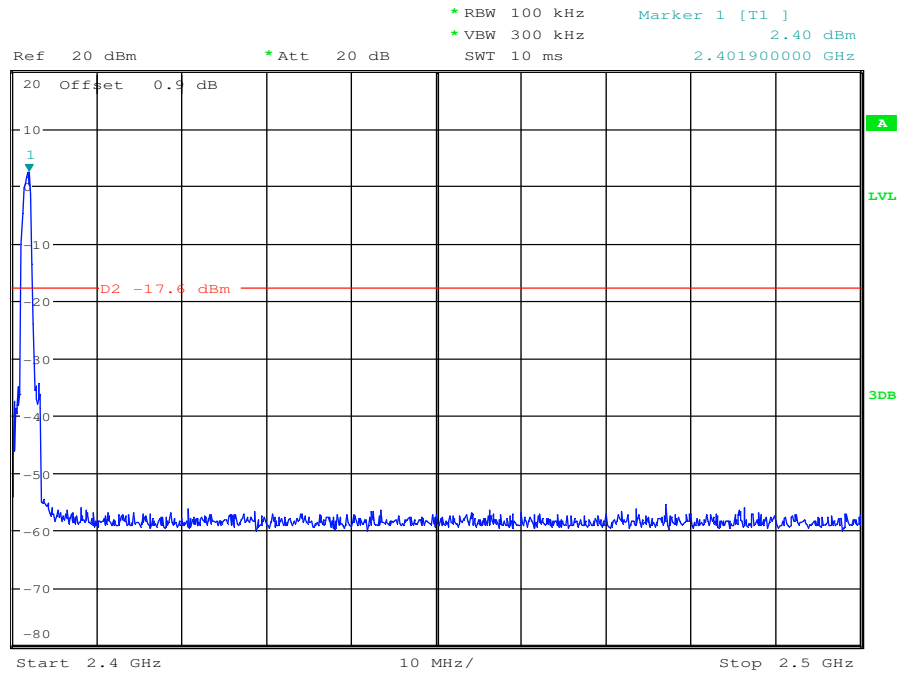
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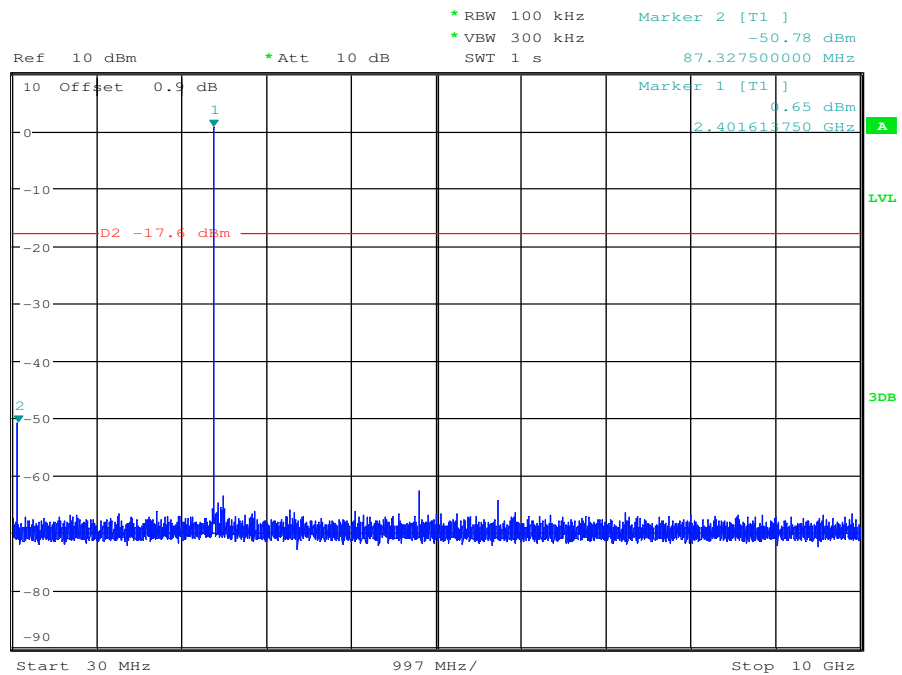
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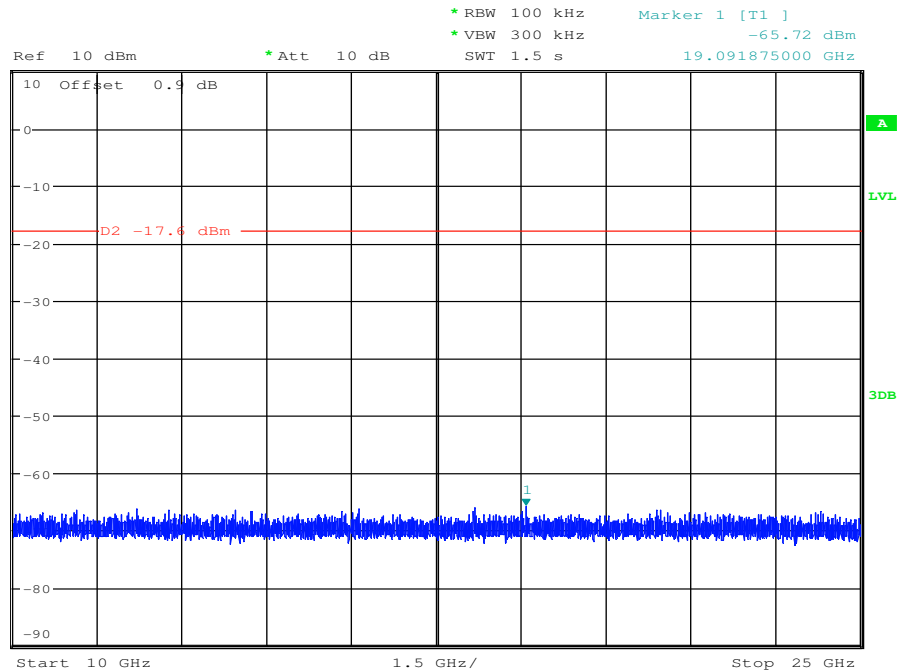
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CSE\_2



1 PK  
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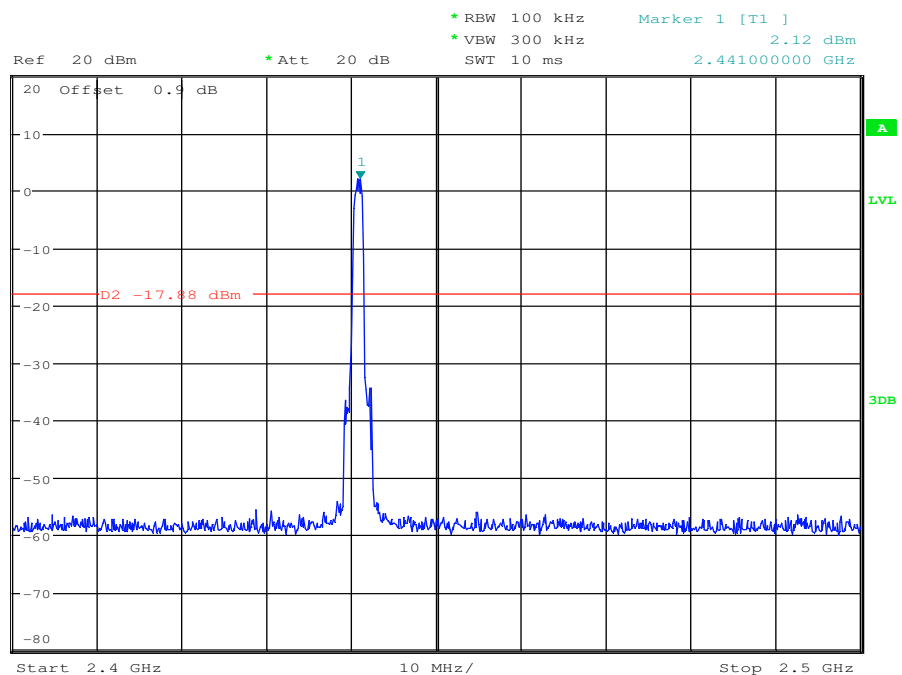


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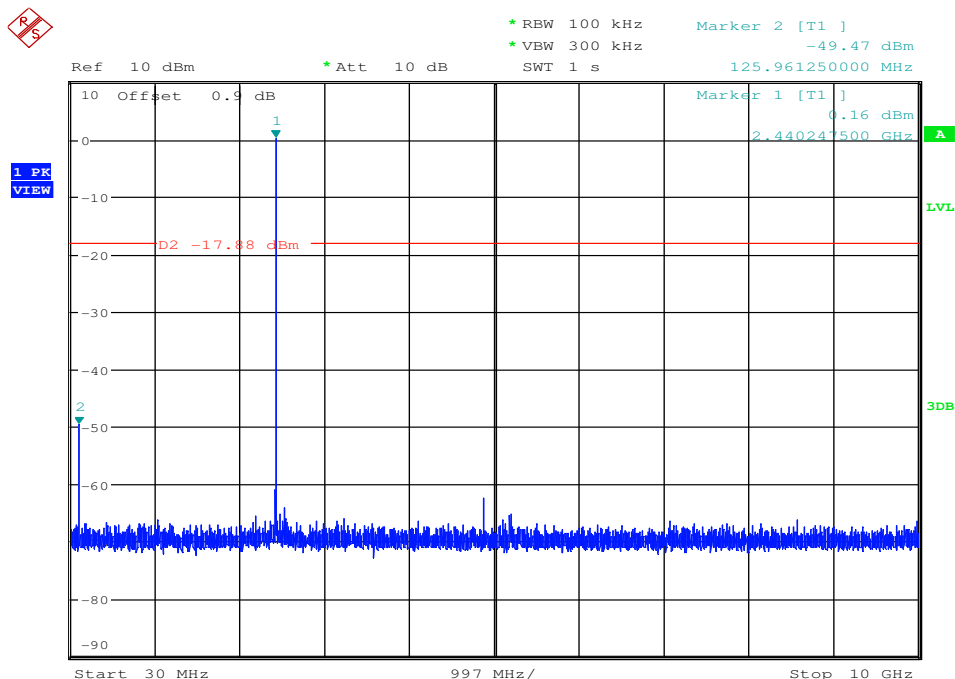


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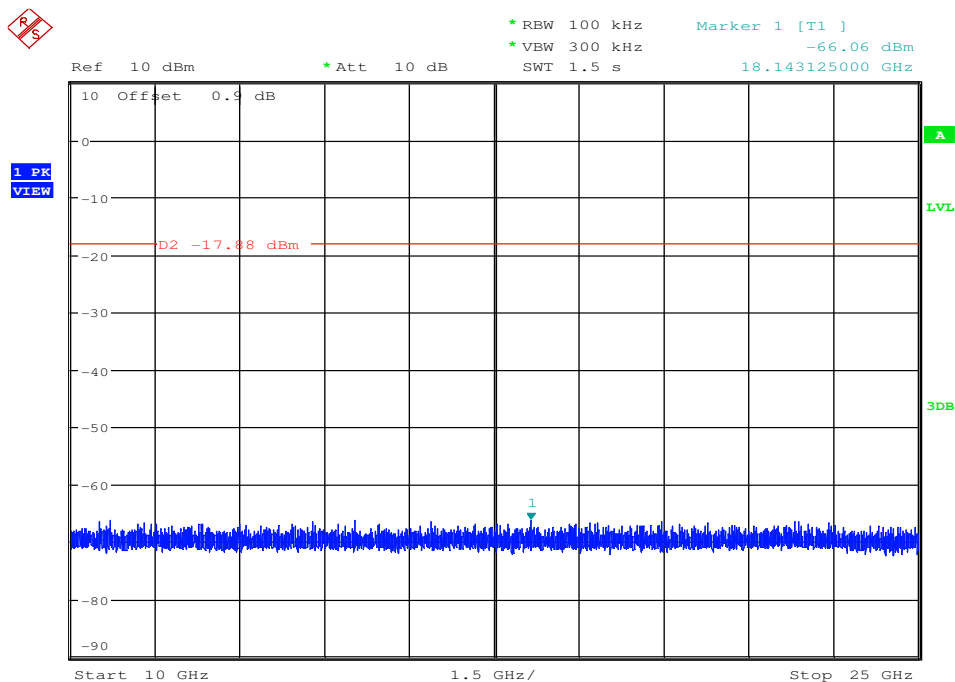




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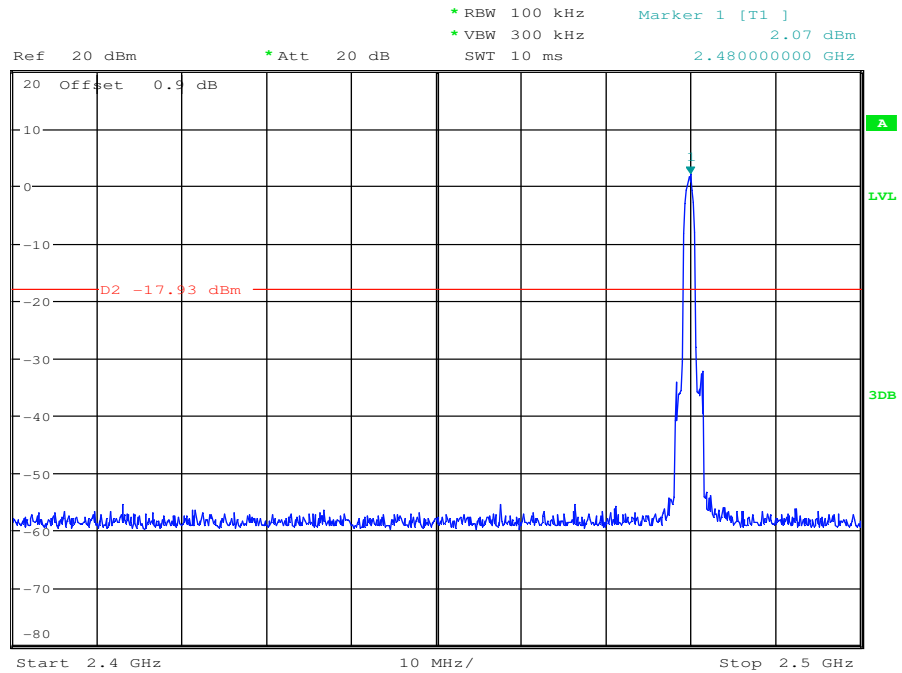


RF Conducted Spurious Emissions\_3DH5\_2480

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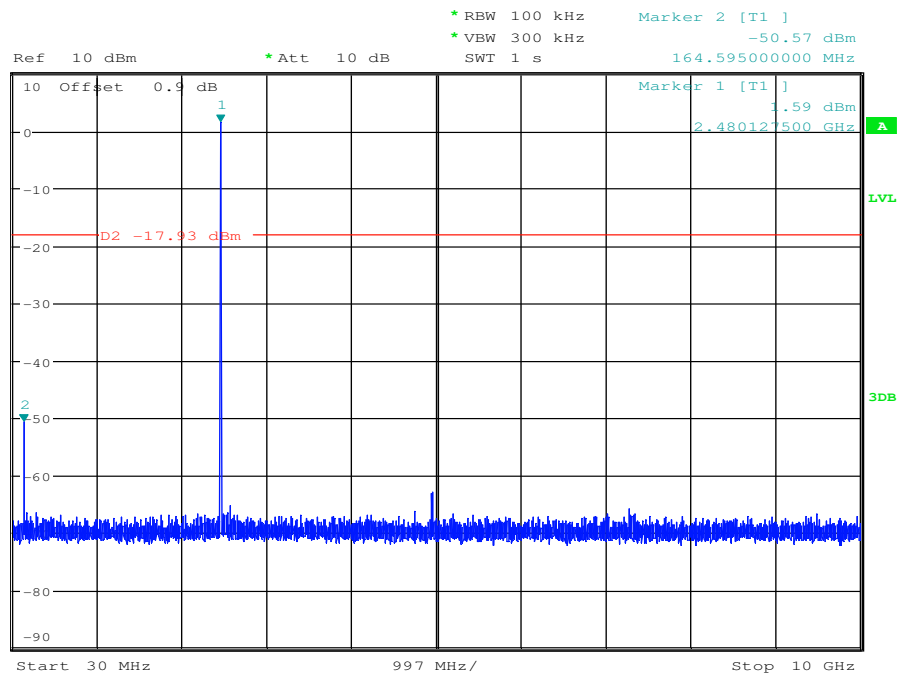
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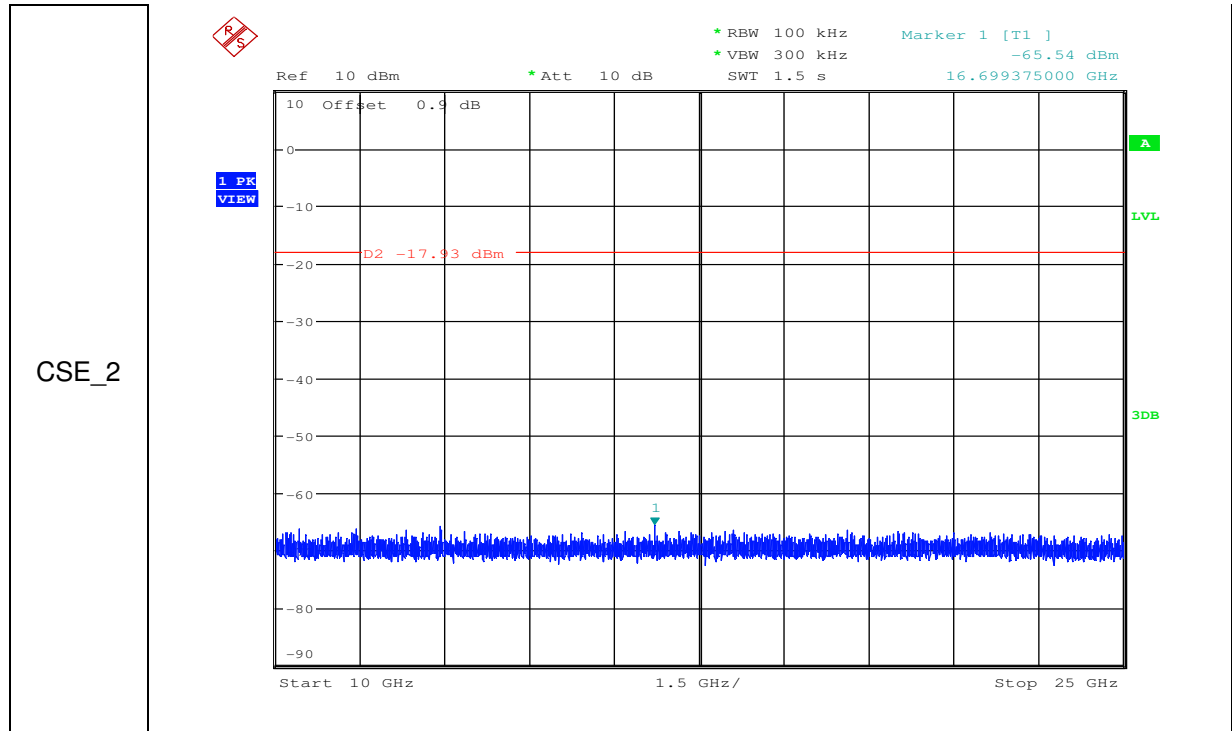


CSE\_1



1 PK  
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- End of the Report -

