



TEST REPORT

FCC ID: 2AABZ-DCDUORX

Product: Deity Connect

Model No.: Deity Connect DUO-RX

Additional Model No.: N/A

Trade Mark: 

Report No.: WSCT-R&E-19020023A

Issued Date: Mar. 11, 2019

Issued for:

Aputure Imaging Industries Co. Ltd

3rd Floor, Building 21, Longjun industrial estate, Longhua, Bao' an, Shenzhen,
P.Shenzhen, China

Issued By:

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1. GENERAL INFORMATION

Product:	Deity Connect
Model No.:	Deity Connect DUO-RX
Additional Model:	N/A
Applicant:	Aputure Imaging Industries Co. Ltd
Address:	3rd Floor, Building 21, Longjun industrial estate, Longhua, Bao' an, Shenzhen, P.Shenzhen, China
Manufacturer:	Aputure Imaging Industries Co. Ltd
Address:	3rd Floor, Building 21, Longjun industrial estate, Longhua, Bao' an, Shenzhen, P.Shenzhen, China
Data of receipt	Jan. 25, 2019
Date of Test:	Jan. 25, 2019 to Mar. 08, 2019
Applicable Standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.247
Test Procedure:	KDB 558074 D01 15.247 Meas Guidance v05r01

The above equipment has been tested by World Standardization Certification & Testing Group Co., Ltd. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Tested By: Pu Shixi
(Pu Shixi)

Date: Mar. 11, 2019

Check By: Qin Shuiquan
(Qin Shuiquan)

Date: Mar. 11, 2019

Approved By: Wang Fengbing
(Wang Fengbing)

Date: Mar. 11, 2019





1.1 GENERAL DESCRIPTION OF EUT

Equipment Type:	Deity Connect					
Test Model:	Deity Connect DUO-RX					
Additional Model:	N/A					
Trade Mark						
Applicant:	Aputure Imaging Industries Co. Ltd					
Address:	3rd Floor, Building 21, Longjun industrial estate, Longhua, Bao'an, Shenzhen, P.Shenzhen, China					
Manufacturer:	Aputure Imaging Industries Co. Ltd					
Address:	3rd Floor, Building 21, Longjun industrial estate, Longhua, Bao'an, Shenzhen, P.Shenzhen, China					
Hardware version:	V2.2					
Software version:	Deity Connect DUO-RX					
Extreme Temp. Tolerance:	-10°C to +55°C					
Battery information:	Li-Polymer Battery : JMD 805053 Voltage: 3.7V Rated Capacity: 2200mAh Limited Charge Voltage: 4.4V					
Adapter Information:	N/A					
Operating Frequency	2406-2474MHz					
Channels	18					
Channel Spacing	4MHz					
Channel list (MHz)	CH1	2406	CH7	2430	CH13	2454
	CH2	2410	CH8	2434	CH14	2458
	CH3	2414	CH9	2438	CH15	2462
	CH4	2418	CH10	2442	CH16	2466
	CH5	2422	CH11	2446	CH17	2470
	CH6	2426	CH12	2450	CH18	2474
Modulation Type	shaped-2FSK, shaped-8FSK					
Version	N/A					
Antenna Type:	Integral Antenna					
Antenna gain:	ANT1:2.65dBi, ANT2:2.65dBi					



1.2 FACILITIES AND ACCREDITATIONS

All measurement facilities used to collect the measurement data are located at **Building A-B, Baoshi Science & Technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, China of the World Standardization Certification & Testing Group Co., Ltd.**

The sites are constructed in conformance with the requirements of ANSI C63.4 and CISPR Publication 22. All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

Registration Number: 366353

1.2.1 ACCREDITATIONS

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

USA
Japan
Canada

NVLAP (The certificate registration number is NVLAP LAB CODE:600142-0)

VCCI (The certificate registration number is C-4790, R-3684, G-837)

INDUSTRY CANADA

(The certificated registration number is 7700A-1)

China

CNAS (The certificated registration number is L3732)

Copies of granted accreditation certificates are available for downloading from our web site,
<http://www.wsct-cert.com>

1.2.2 TEST DESCRIPTION

1.2.2.1 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately **95 %**.

No.	Item	Uncertainty
1	Conducted Emission Test	$\pm 3.2\text{dB}$
2	RF power, conducted	$\pm 0.16\text{dB}$
3	Spurious emissions, conducted	$\pm 0.21\text{dB}$
4	All emissions, radiated (<1G)	$\pm 4.7\text{dB}$
5	All emissions, radiated (>1G)	$\pm 4.7\text{dB}$
6	Temperature	$\pm 0.5^\circ\text{C}$
7	Humidity	$\pm 2\%$





1.3 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Modulation type	Mode
shaped-2FSK	Mode 1、Mode 2、Mode 3、Mode 4
shaped-8FSK	

Pretest Mode	Description
Mode 1	CH01
Mode 2	CH10
Mode 3	CH18
Mode 4	Normal Hopping

For Conducted Emission	
Final Test Mode	Description
Mode 4	Normal Hopping

For Radiated Emission	
Final Test Mode	Description
Mode 1	CH01
Mode 2	CH10
Mode 3	CH18
Mode 4	Normal Hopping

Note:

- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) The data rate was set in 1Mbps for radiated emission due to the highest RF output power.
- (3) Record the worst case of each test item in this report.



1.4 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of FHSS

Test software Version	N/A		
Frequency	2406 MHz	2442 MHz	2474 MHz
Parameters(shaped-8 FSK)	DEF	DEF	DEF

1.4.1 CONFIGURATION OF SYSTEM UNDER TEST



(EUT: Deity Connect)

**1.5 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)**

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
1	PC	/	Think pad	/	/

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (3) “YES” is means “shielded” “with core”; “NO” is means “unshielded” “without core”.





2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.247) , Subpart C			
Standard Section	Test Item	Judgment	Remark
15.207	Conducted Emission	PASS	
15.247(a)(1)	Hopping Channel Separation	PASS	
15.247(b)(1)	Peak Output Power	PASS	
15.247(c)	Radiated Spurious Emission	PASS	
15.247(a)(iii)	Number of Hopping Frequency	PASS	
15.247(a)(iii)	Dwell Time	PASS	
15.247(a)(1)	Bandwidth	PASS	
15.247(d)	100kHz Band Edges	PASS	
15.205	Band Edge Emission	PASS	
15.203	Antenna Requirement	PASS	

NOTE:

- (1) "N/A" denotes test is not applicable in this test report.
- (2) The manufacture declare the equipment comply with the all the technical requirements in 15.247(g). 15.247(h).
 The equipment are not required to employ all available hopping channels during each transmission.it can be presented with a continuous data (or information) stream. the equipment can recognize other users within the spectrum band so that it individually and independently chooses and adapts its hopsets to avoid hopping on occupied channels.
- (3) The power and modulation type of ANT1 and ANT2 were totally the same, and only one antenna Working in the same time, so only list the worst antenna test result in this report.





3. MEASUREMENT INSTRUMENTS

NAME OF EQUIPMENT	MANUFACTURER	MODEL	SERIAL NUMBER	Calibration Date	Calibration Due.
EMI Test Receiver	R&S	ESCI	100005	08/19/2018	08/18/2019
LISN	AFJ	LS16	16010222119	08/19/2018	08/18/2019
LISN(EUT)	Mestec	AN3016	04/10040	08/19/2018	08/18/2019
Universal Radio Communication Tester	R&S	CMU 200	1100.0008.02	08/19/2018	08/18/2019
Coaxial cable	Megalon	LMR400	N/A	08/19/2018	08/18/2019
GPIO cable	Megalon	GPIO	N/A	08/19/2018	08/18/2019
Spectrum Analyzer	R&S	FSU	100114	08/19/2018	08/18/2019
Pre Amplifier	H.P.	HP8447E	2945A02715	10/13/2018	10/12/2019
Pre-Amplifier	CDSI	PAP-1G18-38	--	10/13/2018	10/12/2019
Bi-log Antenna	SUNOL Sciences	JB3	A021907	09/13/2018	09/12/2019
9*6*6 Anechoic	--	--	--	08/21/2018	08/20/2019
Horn Antenna	COMPLIANCE ENGINEERING	CE18000	--	09/13/2018	09/12/2019
Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-631	08/23/2018	08/22/2019
Cable	TIME MICROWAVE	LMR-400	N-TYPE04	04/25/2018	04/24/2019
System-Controller	CCS	N/A	N/A	N.C.R	N.C.R
Turn Table	CCS	N/A	N/A	N.C.R	N.C.R
Antenna Tower	CCS	N/A	N/A	N.C.R	N.C.R
RF cable	Murata	MXHQ87WA3000	--	08/21/2018	08/20/2019
Loop Antenna	EMCO	6502	00042960	08/22/2018	08/21/2019
Horn Antenna	SCHWARZBECK	BBHA 9170	1123	08/19/2018	08/18/2019
Power meter	Anritsu	ML2487A	6K00003613	08/23/2018	08/22/2019
Power sensor	Anritsu	MX248XD	--	08/19/2018	08/18/2019





4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Conducted limit (dB μ V)		Conducted limit (dB μ V)
	Quasi-peak	Quasi-peak	
0.15 -0.5	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	56.00	46.00	FCC
5.0 -30.0	60.00	50.00	FCC

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz



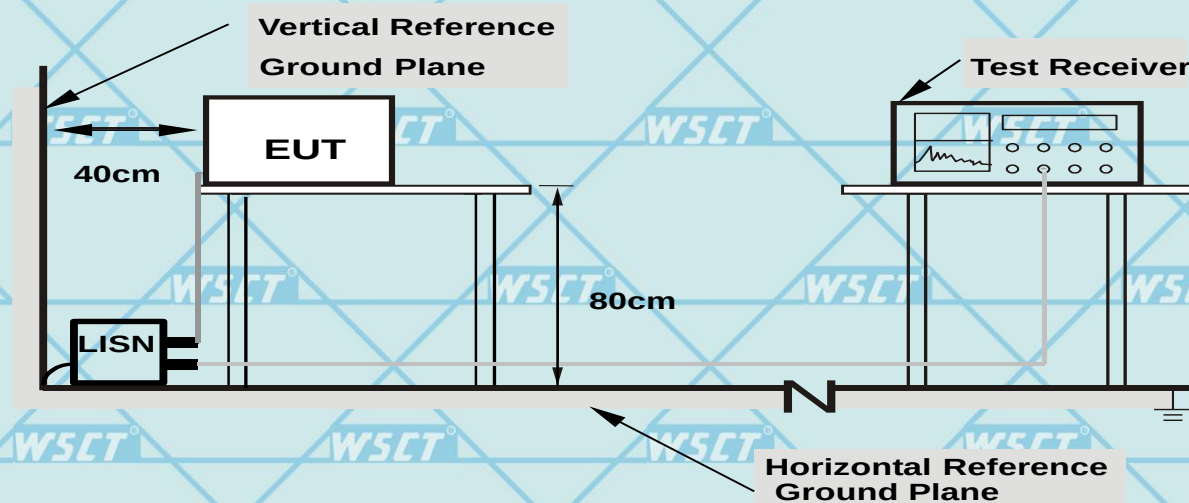
4.1.2 TEST PROCEDURE

- The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- LISN at least 80 cm from nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.1.3 DEVIATION FROM TEST STANDARD

No deviation

4.1.4 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

4.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



4.1.6 TEST RESULTS

Temperature	26 °C	Relative Humidity	54%
Pressure	1010hPa	Voltage	120V/60Hz
Test Mode	Mode 4		

L:



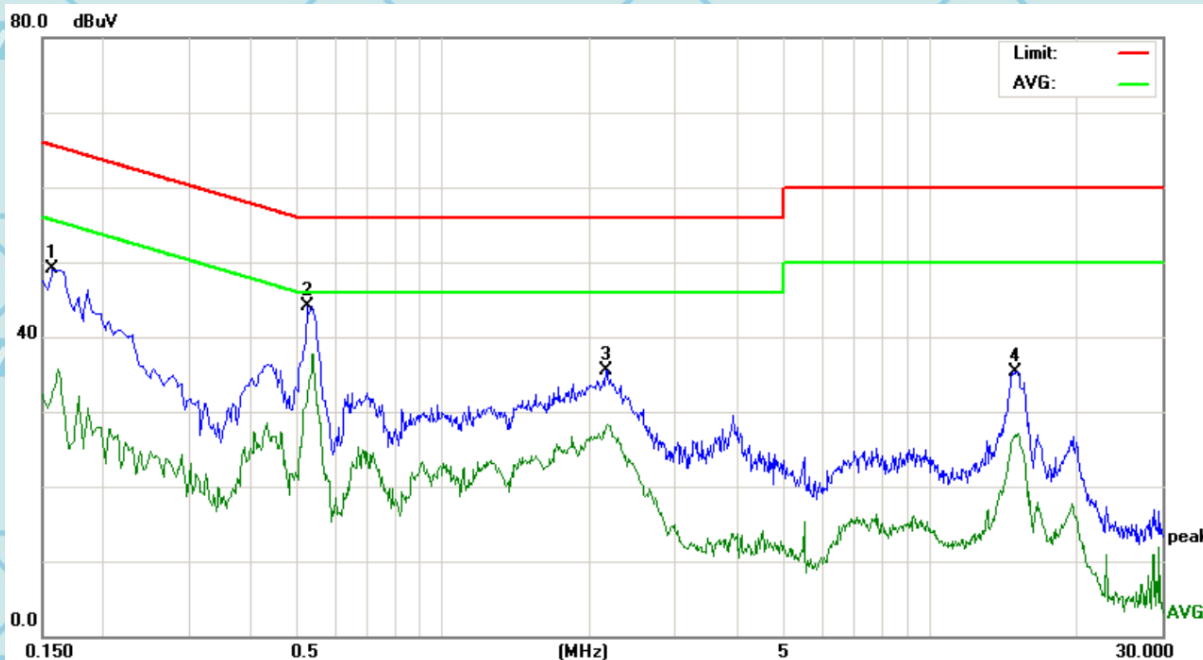
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1580	37.79	10.41	48.20	65.56	-17.36	peak
2	*	0.5380	32.51	10.47	42.98	56.00	-13.02	peak
3		2.1580	19.02	10.66	29.68	56.00	-26.32	peak
4		14.9900	23.15	11.06	34.21	60.00	-25.79	peak





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N:



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1580	38.62	10.41	49.03	65.56	-16.53	peak
2	*	0.5260	33.68	10.47	44.15	56.00	-11.85	peak
3		2.1580	24.85	10.66	35.51	56.00	-20.49	peak
4		15.0060	24.31	11.06	35.37	60.00	-24.63	peak

Note: 1.All the modes have been investigated, and only worst mode is presented in this report.

2.Over=Reading Level+ Correct Factor - Limit.



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4.2 RADIATED EMISSION MEASUREMENT

4.2.1 Radiated Emission Limits (Frequency Range 9kHz-1000MHz)

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micorvolts/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

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Limit (dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 1Hz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP





4.2.2 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

**Both horizontal and vertical antenna polarities were tested
and performed pretest to three orthogonal axis. The worst case emissions were reported**

4.2.3 DEVIATION FROM TEST STANDARD

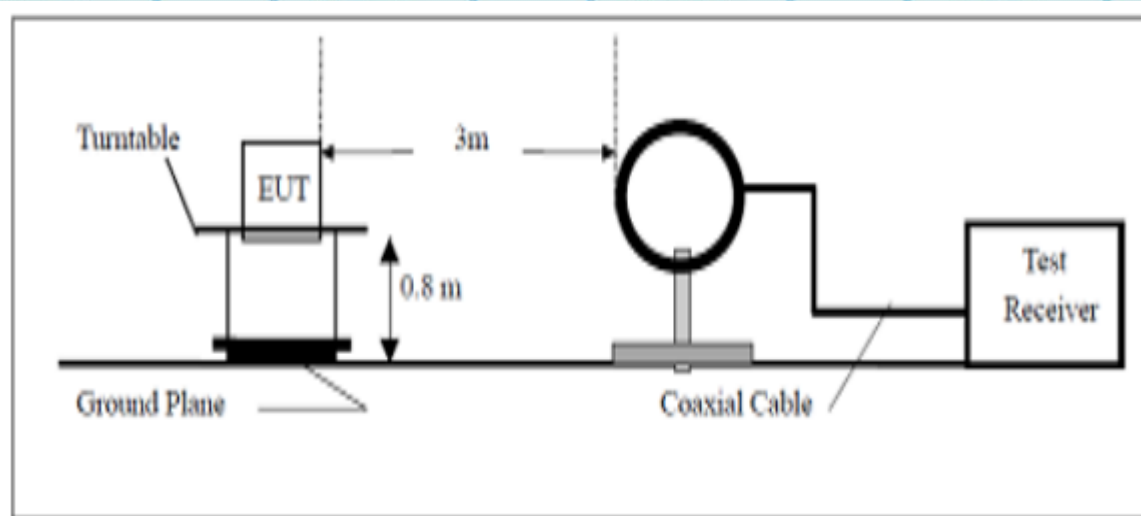
No deviation



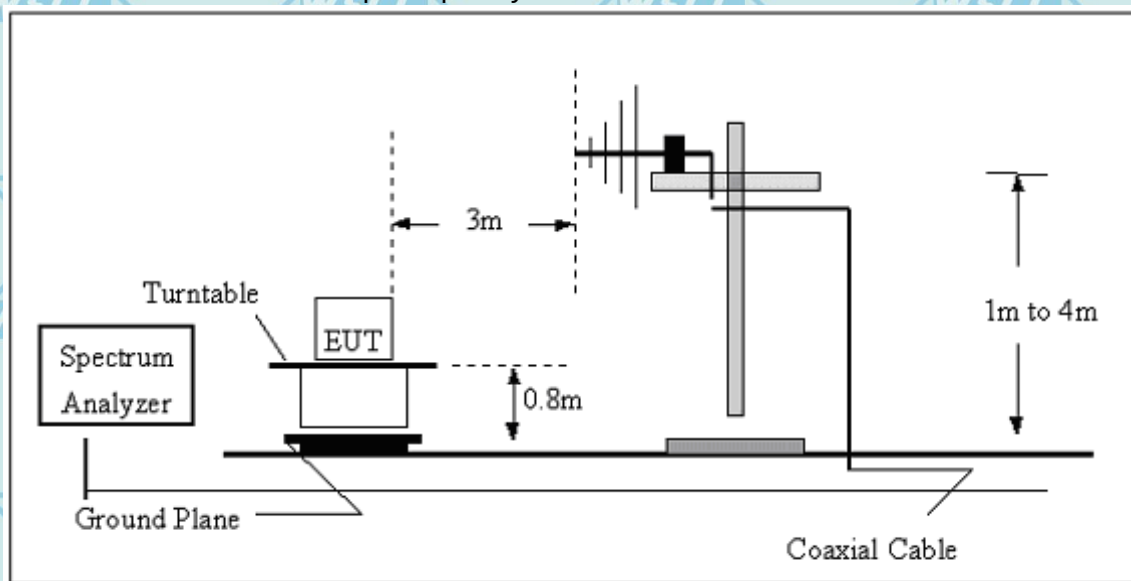


4.2.4 TEST SETUP

(A) Radiated Emission Test-Up Frequency Below 30MHz

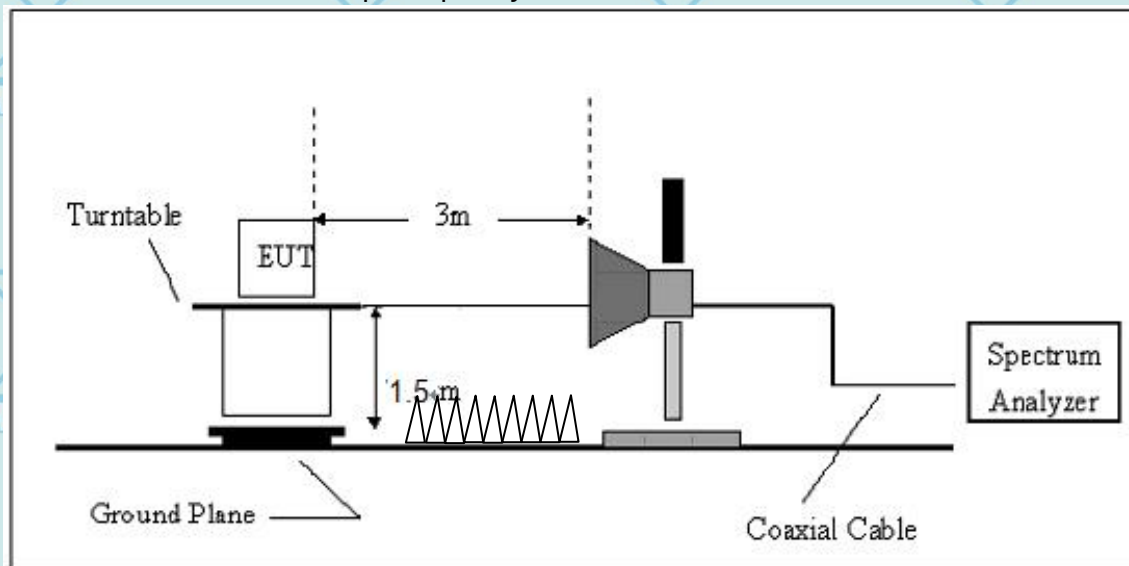


(B) Radiated Emission Test-Up Frequency 30MHz~1GHz





(C) Radiated Emission Test-Up Frequency Above 1GHz

**4.2.5 EUT OPERATING CONDITIONS**

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



4.2.5.1 RESULTS (Below 30 MHz)

Test Mode	Mode 1/ Mode 2/ Mode 3	Polarization	Horizontal / Vertical
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa		

Freq. (MHz)	Reading (dBuV/m)	Limit (dBuV/m)	Margin (dB)	State P/F
--	--	--	--	P
--	--	--	--	P

NOTE:

No result in this part for margin above 20dB.

Distance extrapolation factor = 40 log (specific distance/test distance)(dB);

Limit line = specific limits (dBuV) + distance extrapolation factor.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.



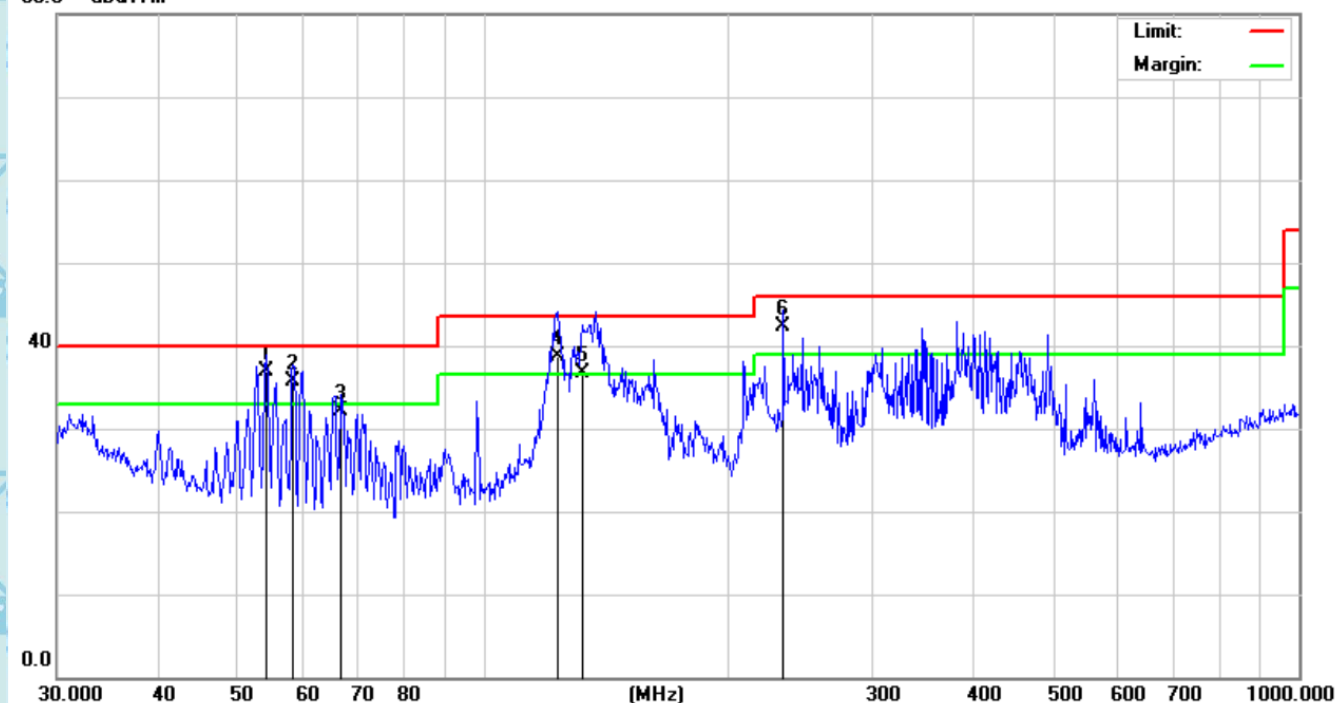
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4.2.5.2 TEST RESULTS (Between 30M – 1000 MHz)

Test Mode	Mode 4 with shaped-8FSK modulation	Pressure	1010 hPa
Temperature	20 °C	Relative Humidity	48%

H:

80.0 dBuV/m



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	54.0711	42.37	-5.51	36.86	40.00	-3.14	QP
2	!	58.4074	41.64	-6.02	35.62	40.00	-4.38	QP
3		66.9668	38.80	-6.76	32.04	40.00	-7.96	QP
4	!	122.9455	41.68	-3.04	38.64	43.50	-4.86	QP
5	!	132.5000	40.51	-3.75	36.76	43.50	-6.74	QP
6	!	233.3487	47.70	-5.48	42.22	46.00	-3.78	QP



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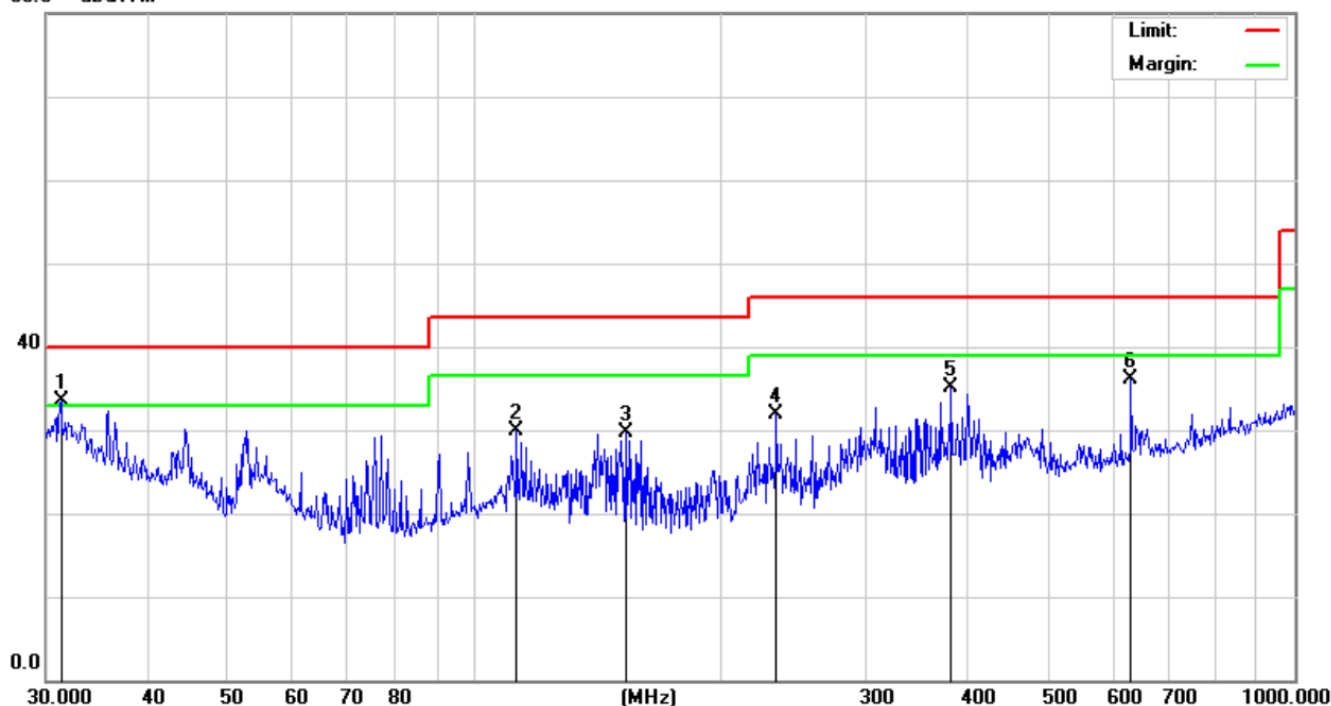
ADD: Building A-B Baoshi Science & technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, China
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V:

80.0 dBuV/m



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	31.2893	29.16	4.29	33.45	40.00	-6.55	QP
2		112.5241	31.93	-2.11	29.82	43.50	-13.68	QP
3		152.6639	34.80	-5.16	29.64	43.50	-13.86	QP
4		233.3487	37.29	-5.48	31.81	46.00	-14.19	QP
5		381.2485	36.36	-1.19	35.17	46.00	-10.83	QP
6		631.6884	34.36	1.67	36.03	46.00	-9.97	QP

Note: 1.All the modes have been investigated, and only worst mode is presented in this report.

2.Over=Reading Level+ Correct Factor - Limit.

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4.2.5.3 TEST RESULTS(1GHz to 25GHz)

Pressure	1010 hPa	Test Mode	Mode 1 TX
Temperature	20 °C	Relative Humidity	48%

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
4812	V	61.35	43.12	74	54	-12.65	-10.88
7218	V	60.18	42.86	74	54	-13.82	-11.14
4812	H	59.89	41.34	74	54	-14.11	-12.66
7218	H	58.89	40.17	74	54	-15.11	-13.83

Remark: All emissions not reported were more than 20dB below the specified limit or in the noise floor.

Pressure	1010 hPa	Test Mode	Mode 2 TX
Temperature	20 °C	Relative Humidity	48%

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
4884	V	62.12	43.21	74	54	-11.88	-10.79
7326	V	61.36	40.89	74	54	-12.64	-13.11
4884	H	59.89	41.77	74	54	-14.11	-12.23
7326	H	60.33	42.12	74	54	-13.67	-11.88

Remark: All emissions not reported were more than 20dB below the specified limit or in the noise floor.

Pressure	1010 hPa	Test Mode	Mode 3 TX
Temperature	20 °C	Relative Humidity	48%

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
4948	V	61.33	42.88	74	54	-12.67	-11.12
7422	V	60.87	42.36	74	54	-13.13	-11.64
4948	H	60.36	41.12	74	54	-13.64	-13.88
7422	H	59.98	40.23	74	54	-14.02	-13.77

Remark: All emissions not reported were more than 20dB below the specified limit or in the noise floor.





4.2.5.4 TEST RESULTS (Restricted Bands Requirements)

Test result for 1Mbps Mode:

Polarization	Vertical	Test Mode	TX /Mode1(CH01)
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa		

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2387	63.13	-8.76	54.37	74	19.63	peak
2387	56.89	-8.76	48.13	54	5.87	AVG
2390	61.23	-8.73	52.5	74	21.5	peak
2390	57.58	-8.73	48.85	54	5.15	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

Polarization	Horizontal	Test Mode	TX /Mode1(CH01)
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa		

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2384	61.85	-8.76	53.09	74	20.91	peak
2384	55.24	-8.76	46.48	54	7.52	AVG
2390	62.16	-8.73	53.43	74	20.57	peak
2390	56.96	-8.73	48.23	54	5.77	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.





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Polarization	Vertical	Test Mode	TX /Mode 3(CH18)
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.5	62.19	-8.17	54.02	74	19.98	peak
2483.5	56.79	-8.17	48.62	54	5.38	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

Polarization	Horizontal	Test Mode	TX /Mode 3(CH18)
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.5	61.93	-8.17	53.76	74	20.24	peak
2483.5	55.75	-8.17	47.58	54	6.42	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.


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Test result for hopping mode:

Polarization	Vertical	Test Mode	hopping mode
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2387	63.39	-8.76	54.63	74	19.37	peak
2387	57.26	-8.76	48.5	54	5.5	AVG
2390	62.81	-8.73	54.08	74	19.92	peak
2390	56.03	-8.73	47.3	54	6.7	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

Polarization	Horizontal	Test Mode	Hopping mode
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2387	62.47	-8.76	53.71	74	20.29	peak
2387	56.91	-8.76	48.15	54	5.85	AVG
2390	63.23	-8.73	54.5	74	19.5	peak
2390	56.81	-8.73	48.08	54	5.92	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.



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Polarization	Vertical	Test Mode	Hopping mode-1Mbps
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.5	63.15	-8.17	54.98	74	19.02	peak
2483.5	57.21	-8.17	49.04	54	4.96	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

Polarization	Horizontal	Test Mode	Hopping mode-1Mbps
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.5	62.87	-8.17	54.7	74	19.3	peak
2483.5	57.23	-8.17	49.06	54	4.94	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

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5. NUMBER OF HOPPING CHANNEL

5.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247 (a)(1)(iii)	Number of Hopping Channel	≥15	2400-2483.5	PASS

Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	> Operating Frequency Range
RB	1MHz
VB	3MHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

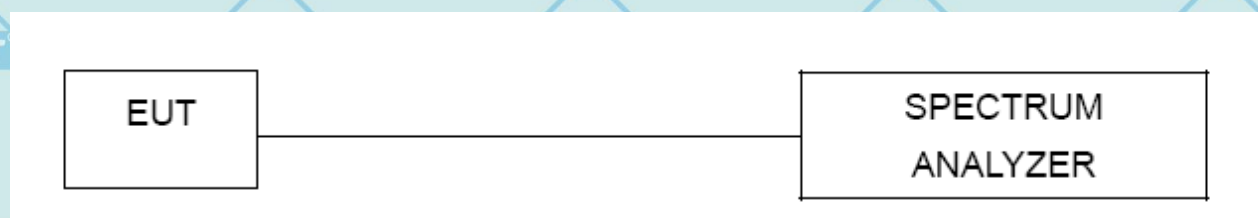
5.1.1 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- Spectrum Setting: RBW= 1MHz, VBW=3MHz, Sweep time = Auto.

5.1.2 DEVIATION FROM STANDARD

No deviation.

5.1.3 TEST SETUP



5.1.4 EUT OPERATION CONDITIONS

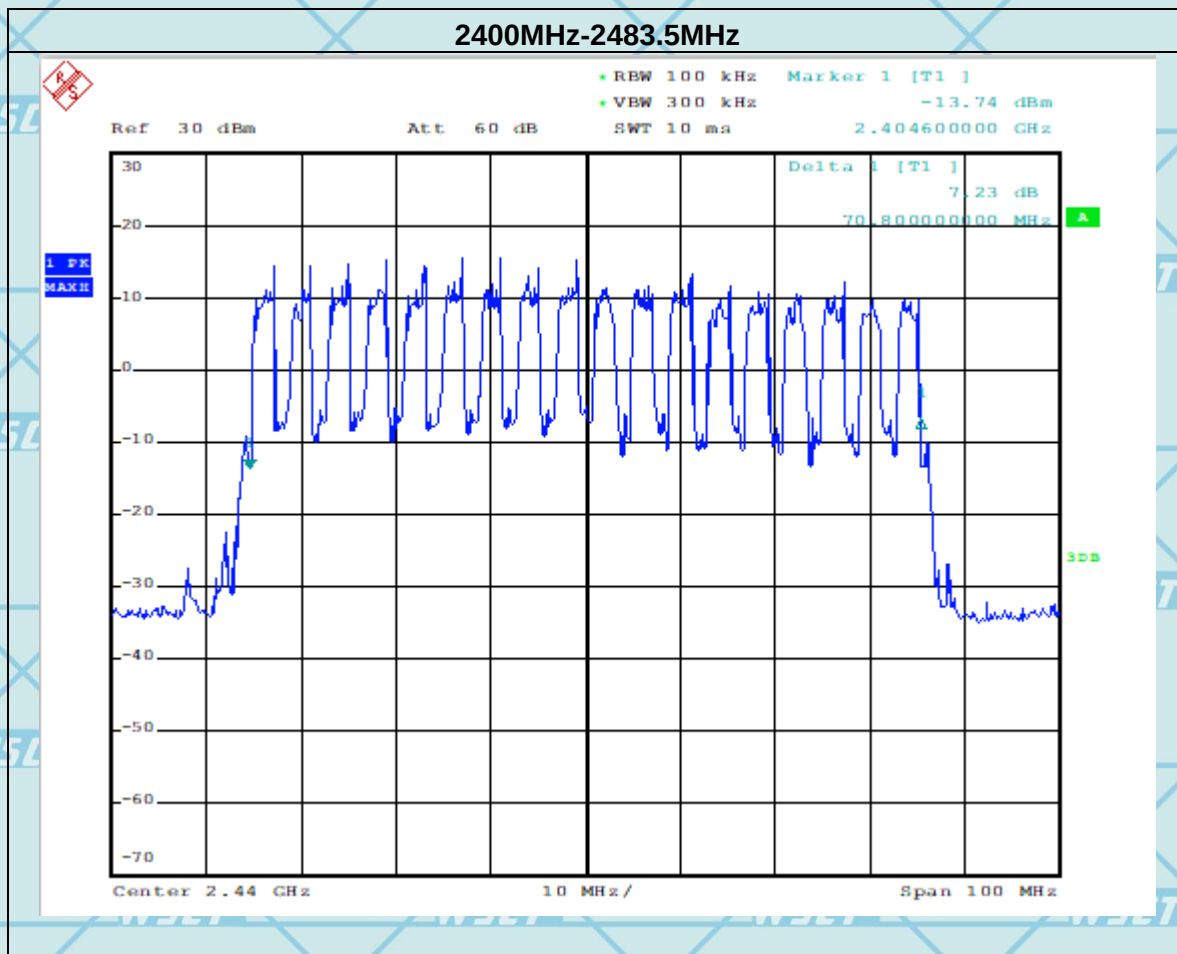
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



5.2 TEST RESULTS

Number of Hopping Channel	18	Test Mode	Hopping Mode
Temperature	25°C	Relative Humidity	60%
Pressure	1015 hPa		

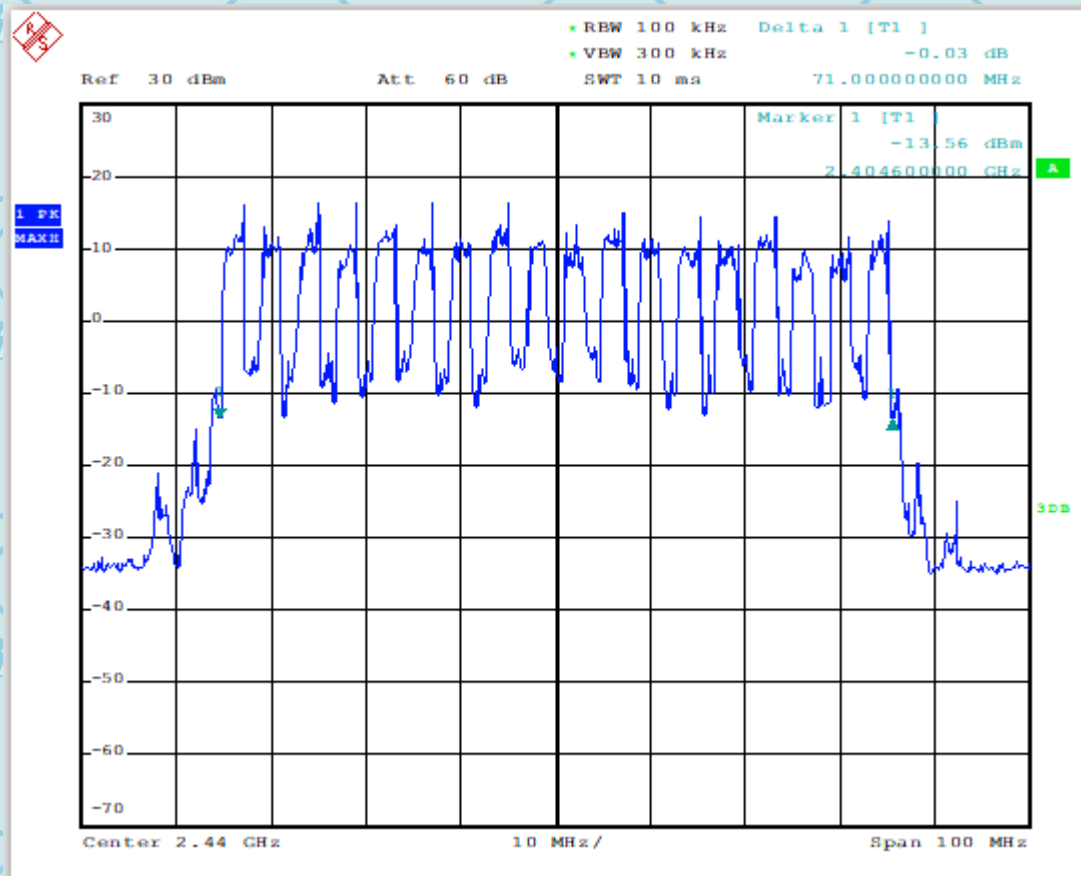
ANT1:





ANT2:

2400MHz-2483.5MHz





6. AVERAGE TIME OF OCCUPANCY

6.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247 (a)(1)(iii)	Average Time of Occupancy	0.4sec	2400-2483.5	PASS

6.1.2 TEST PROCEDURE

- The EUT test port was connected to the spectrum analyzer with RF cable and antenna connector.
- Set RBW of spectrum analyzer to 1MHz and VBW to 3MHz.
- Use a video trigger with the trigger level set to enable triggering only on full pulses.
- Sweep Time is more than once pulse time.
- Set the center frequency on any frequency would be measure and set the frequency span to zero span.
- Measure the maximum time duration of one single pulse.
- Set the EUT for shaped-8FSK packet transmitting.
- Measure the maximum time duration of one single pulse.
- Dwell time = Pulse time*(pulse numbers in 7.2s observation time)

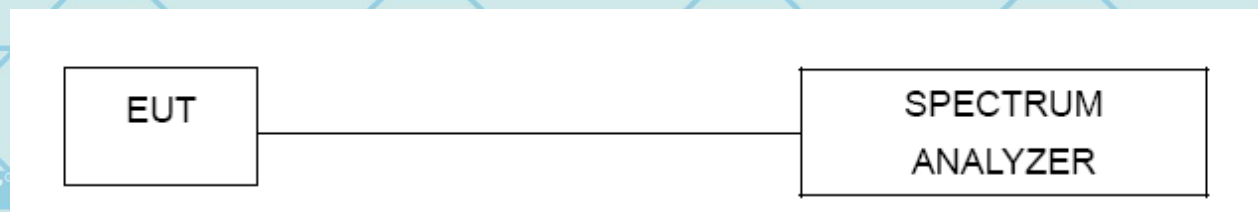
6.1.3 DEVIATION FROM STANDARD

No deviation.





6.1.4 TEST SETUP



6.1.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

6.2 TEST RESULTS

Note: *the worst case is 1Mbps as result in this part.*

Pressure	1012 hPa	Test Mode	shaped-8FSK
Temperature	25°C	Relative Humidity	60%

ANT1:

Data Packet	Frequency	Pulse time(ms)	Dwell Time(S)	Limits (S)
shaped-8FSK	2406MHz	0.3	0.012	0.4
shaped-8FSK	2442MHz	0.3	0.012	0.4
shaped-8FSK	2474MHz	0.3	0.024	0.4

ANT2:

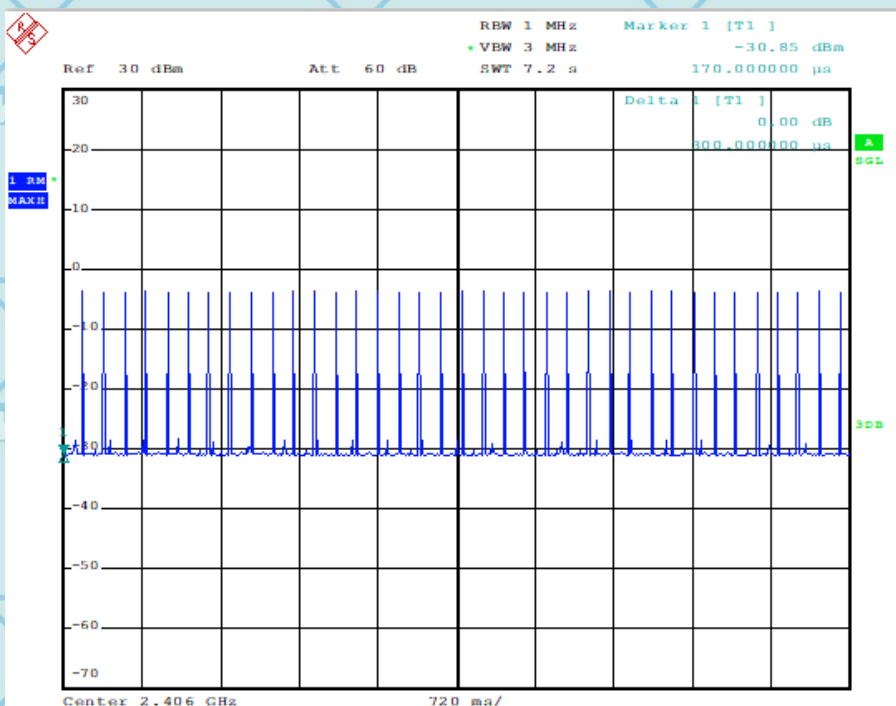
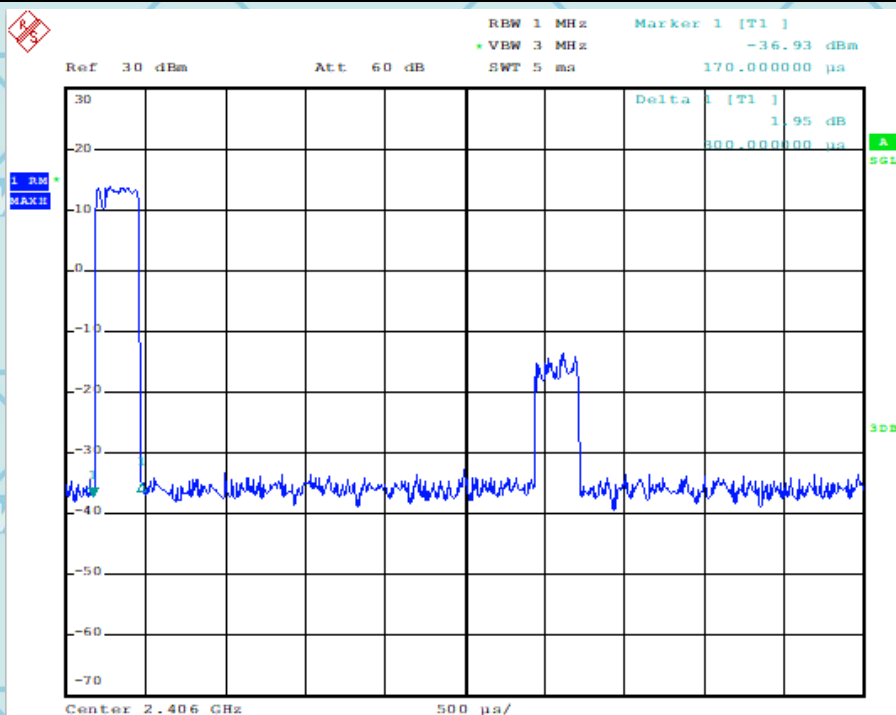
Data Packet	Frequency	Pulse time(ms)	Dwell Time(S)	Limits (S)
shaped-8FSK	2406MHz	0.46	0.240	0.4
shaped-8FSK	2442MHz	0.46	0.018	0.4
shaped-8FSK	2474MHz	0.46	0.018	0.4



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ANT1:

CH01



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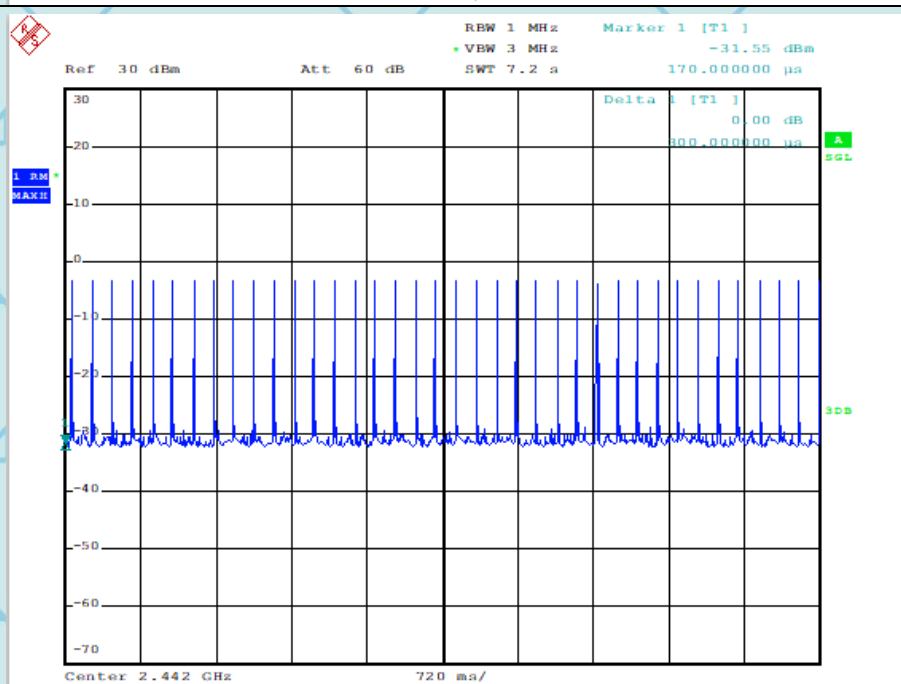
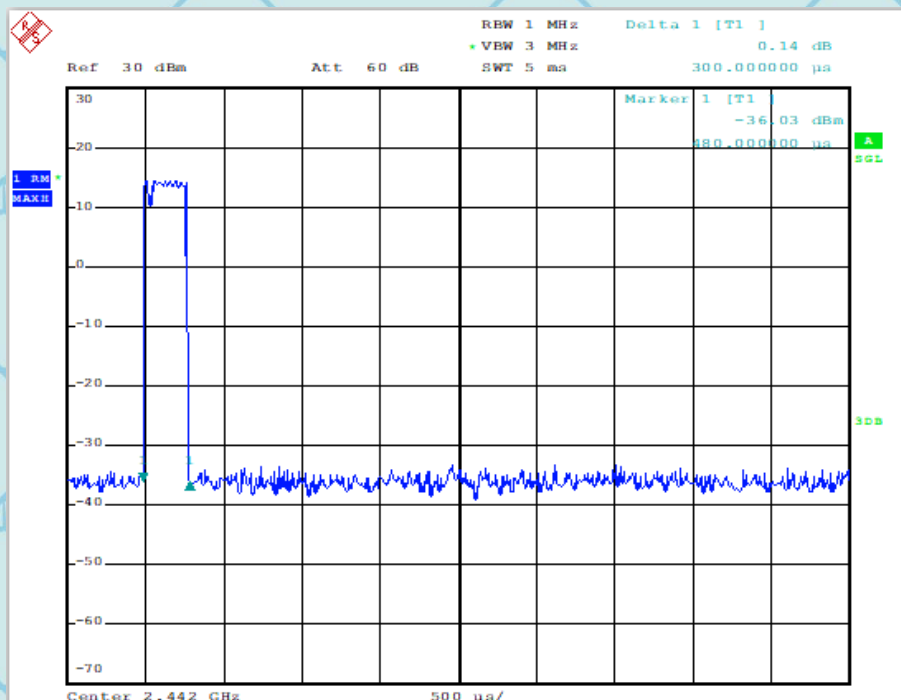
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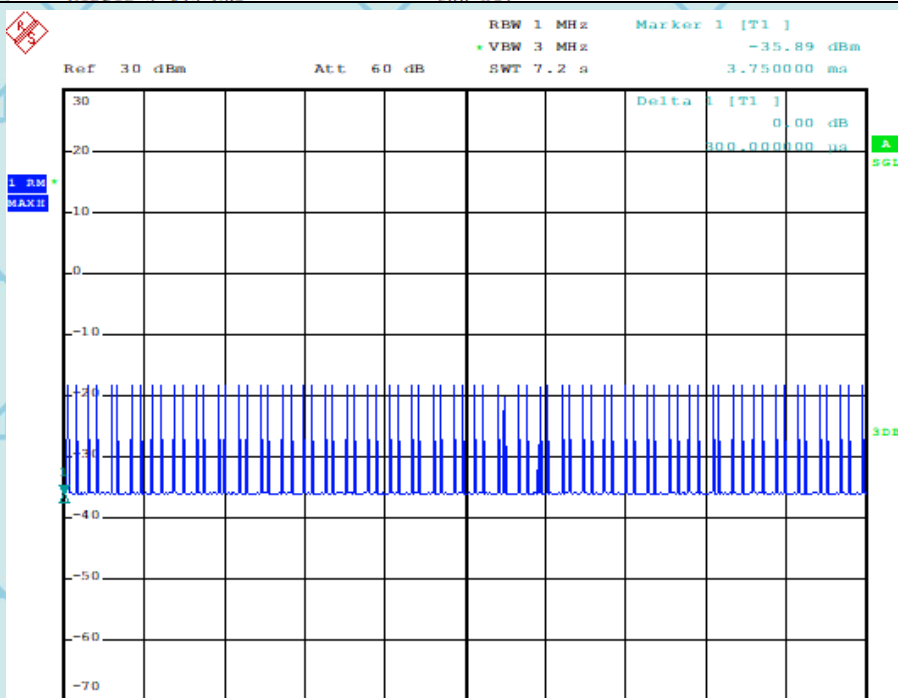
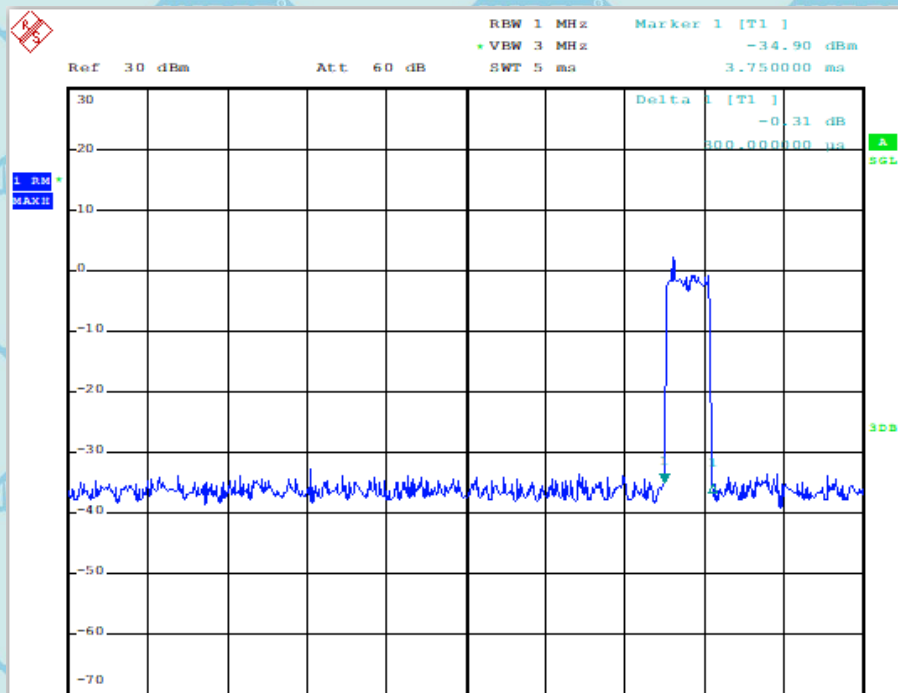
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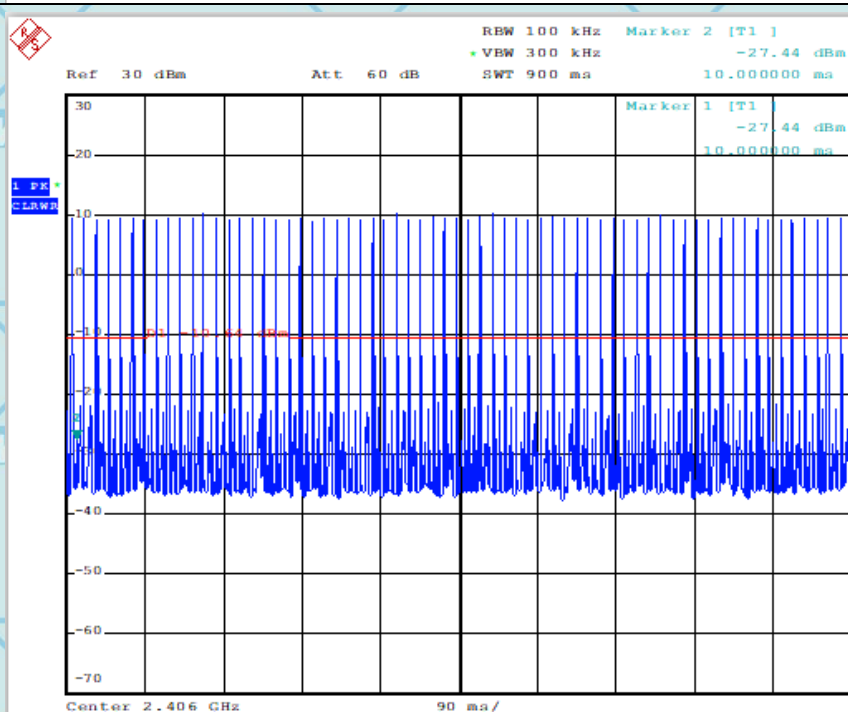
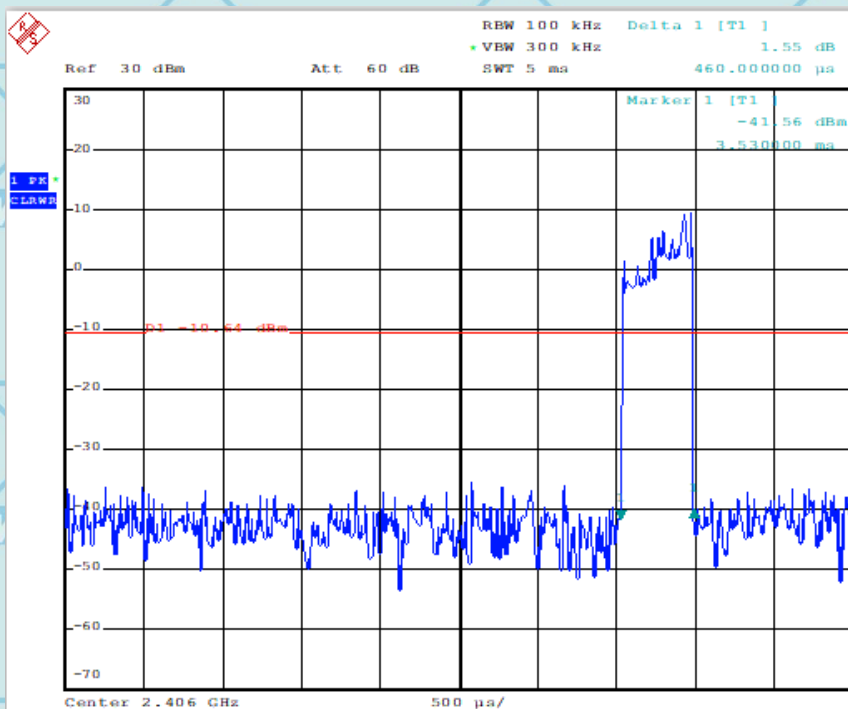




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ANT2:

CH01



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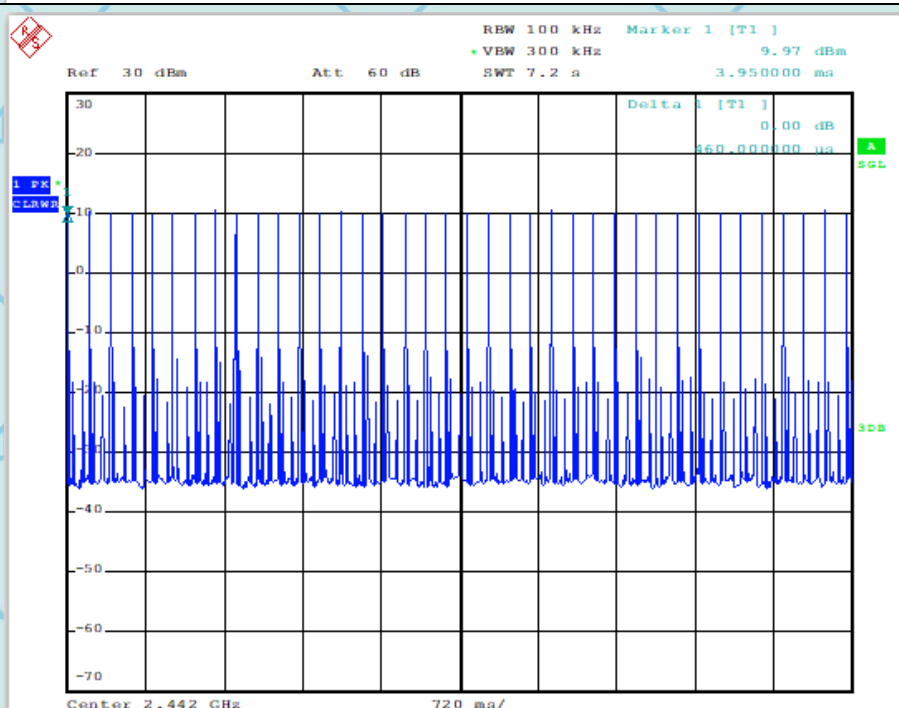
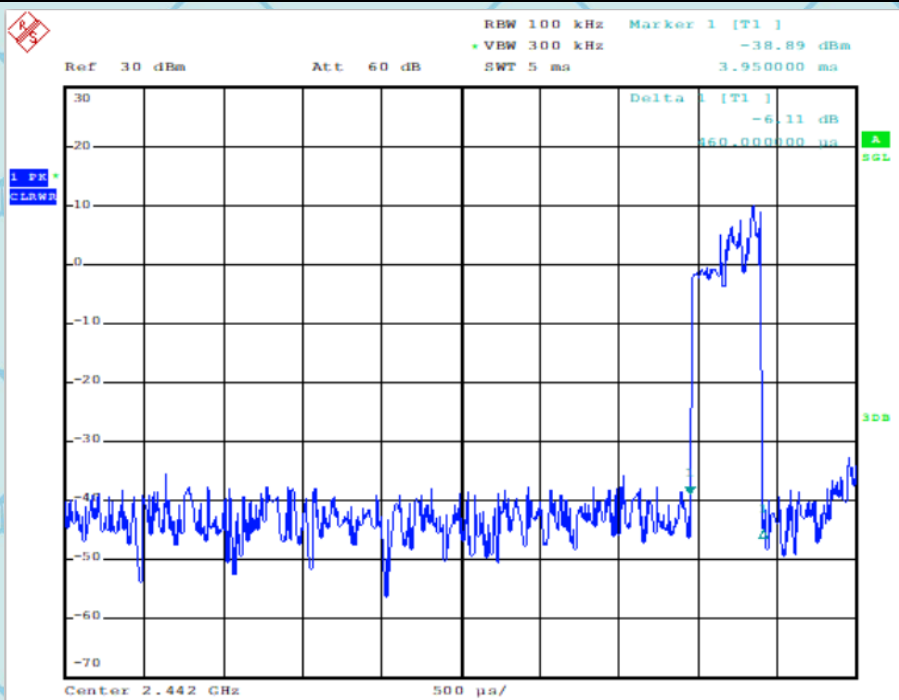
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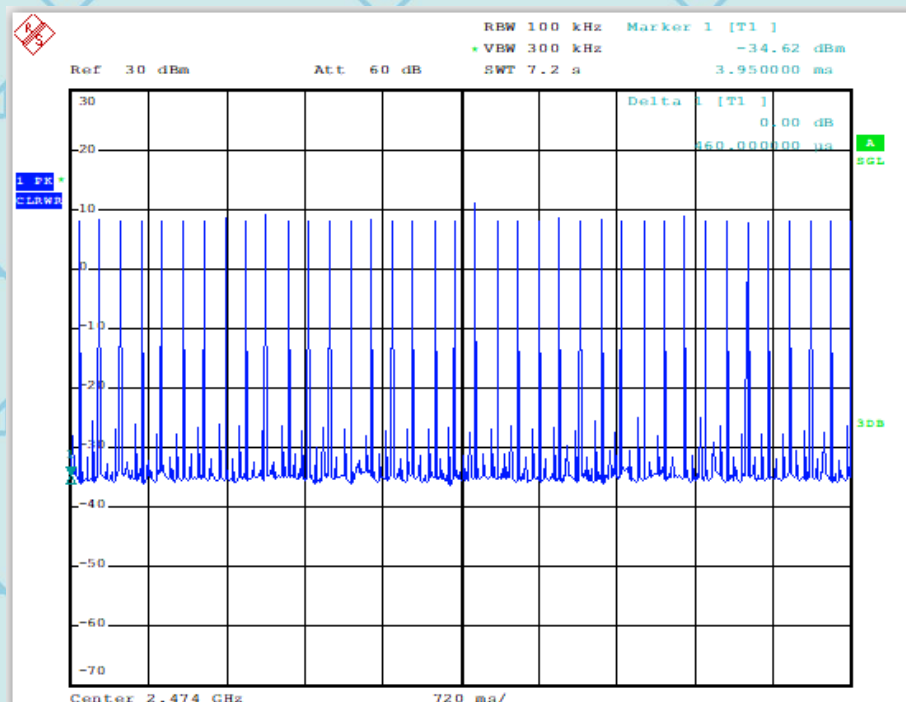
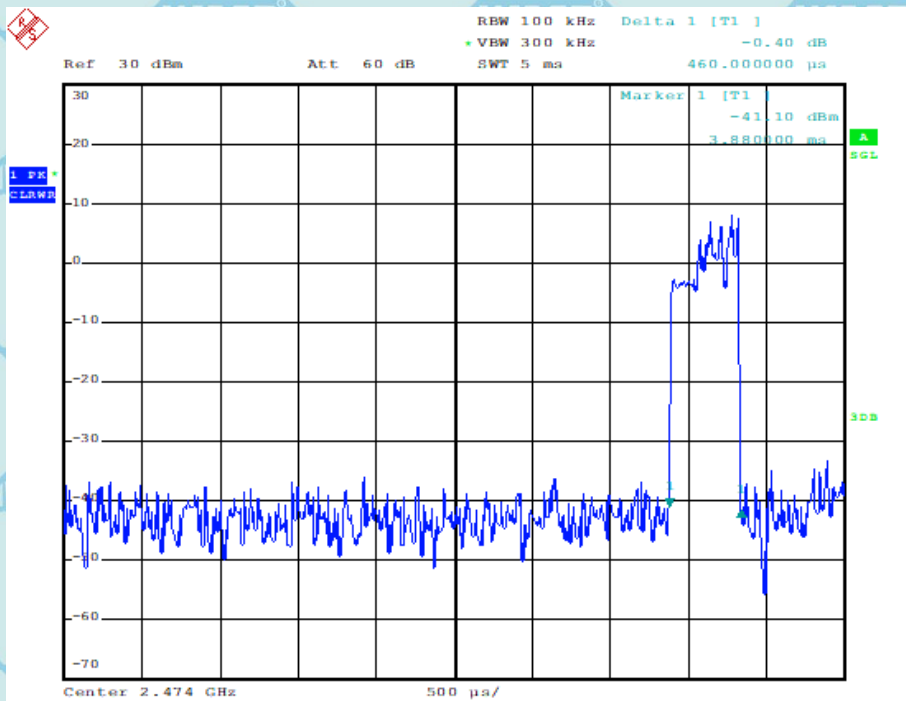
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7. HOPPING CHANNEL SEPARATION MEASUREMENT

7.1 APPLIED PROCEDURES / LIMIT

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.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> Measurement Bandwidth or Channel Separation
RB	Resolution (or IF) Bandwidth (RBW) $\geq$ 1% of the span
VB	Video (or Average) Bandwidth (VBW) $\geq$ RBW
Detector	Peak
Trace	Max hold
Sweep Time	Auto

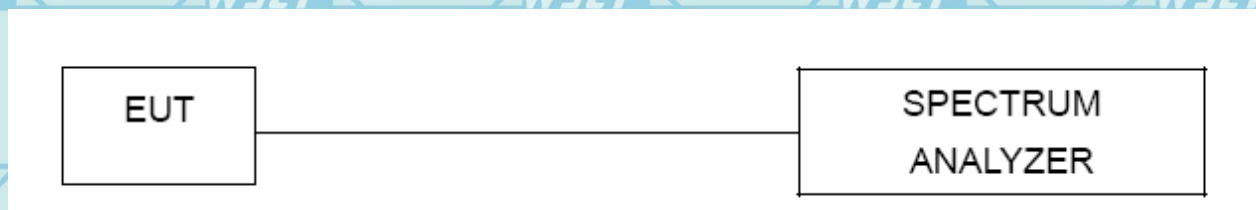
7.1.2 TEST PROCEDURE

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Set the spectrum analyzer as follows: Span = wide enough to capture the peaks of two adjacent channels: Resolution (or IF) Bandwidth (RBW) $\geq$ 1% of the span; Video (or Average) Bandwidth (VBW) $\geq$ RBW; Sweep = auto; Detector function = peak; Trace = max hold
3. Measure the separation between the peaks of the adjacent channels using the marker-delta function.
4. Repeat above procedures until all frequencies measured were complete.

7.1.3 DEVIATION FROM STANDARD

No deviation.

7.1.4 TEST SETUP



7.1.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.



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7.2 TEST RESULTS

Pressure	1012 hPa	Test Mode	CH01 / CH10 / CH18 (Mode 4)
Temperature	25°C	Relative Humidity	60%
Test Result	Pass		

ANT1:

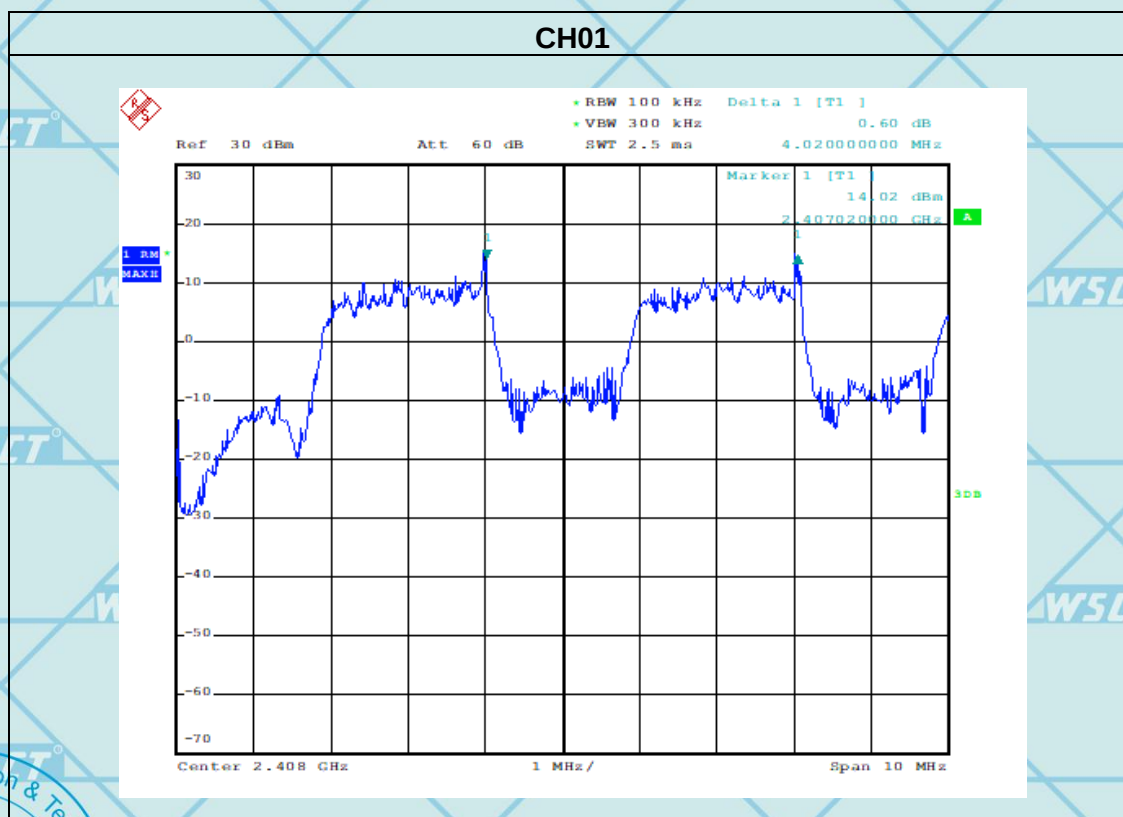
Channel number	Channel frequency (MHz)	Separation Read value (KHz)	Separation limit (KHz)
01	2406	4020	20dB BW
09	2442	4000	20dB BW
18	2474	4040	20dB BW

ANT2:

Channel number	Channel frequency (MHz)	Separation Read value (KHz)	Separation limit (KHz)
01	2406	4020	20dB BW
09	2442	4020	20dB BW
18	2474	4020	20dB BW

Note: 20db bandwidth refer to section9.6

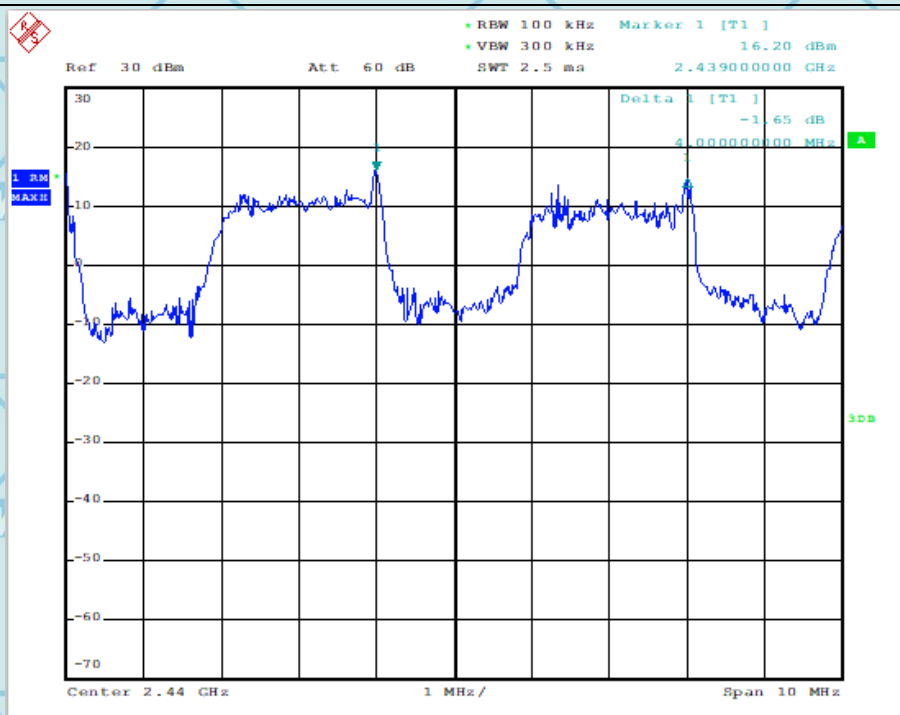
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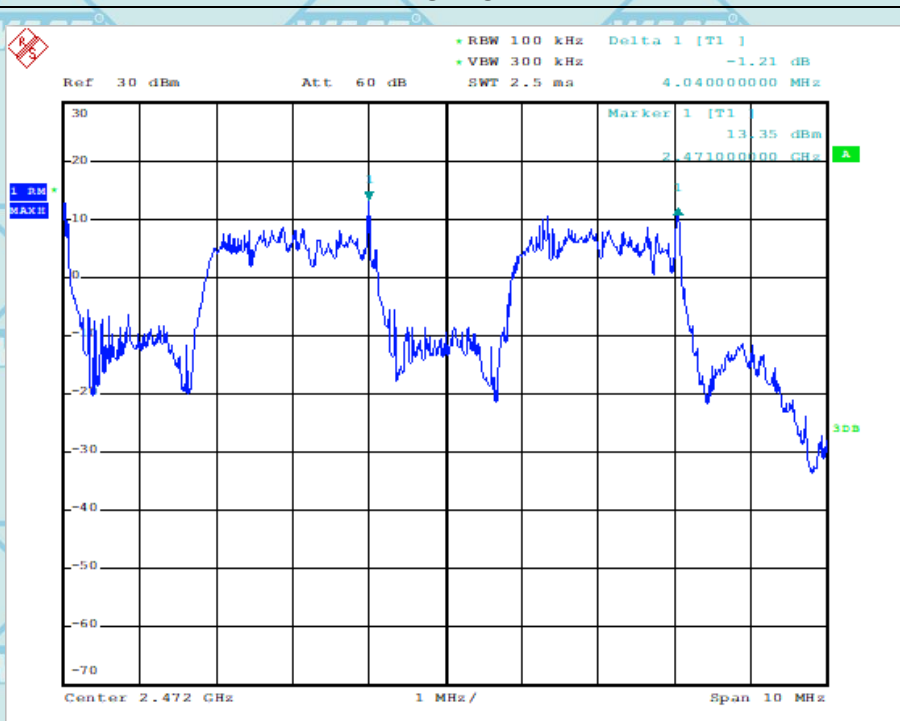


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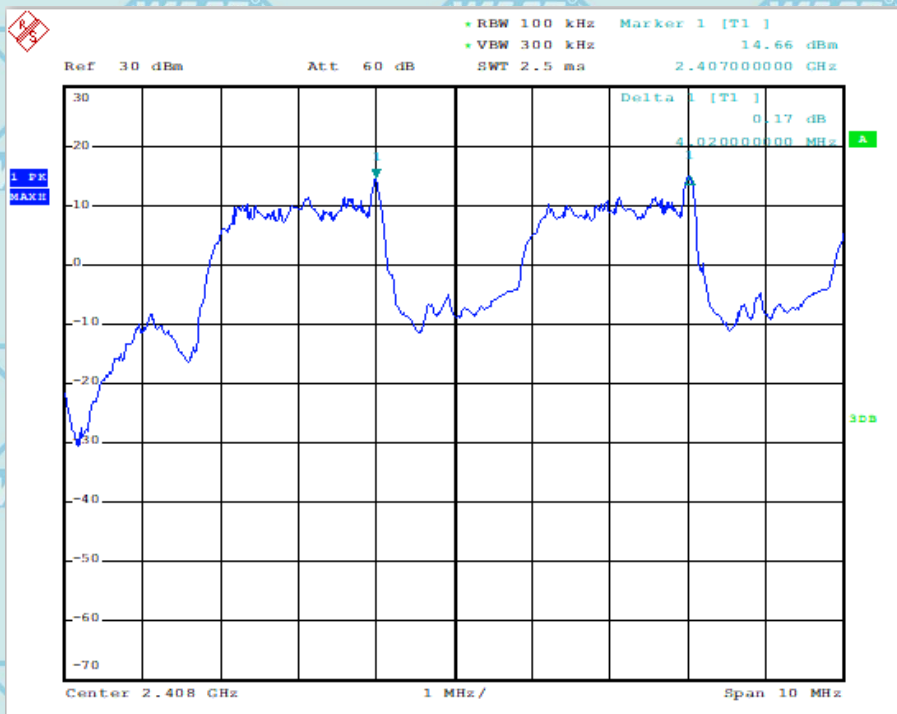
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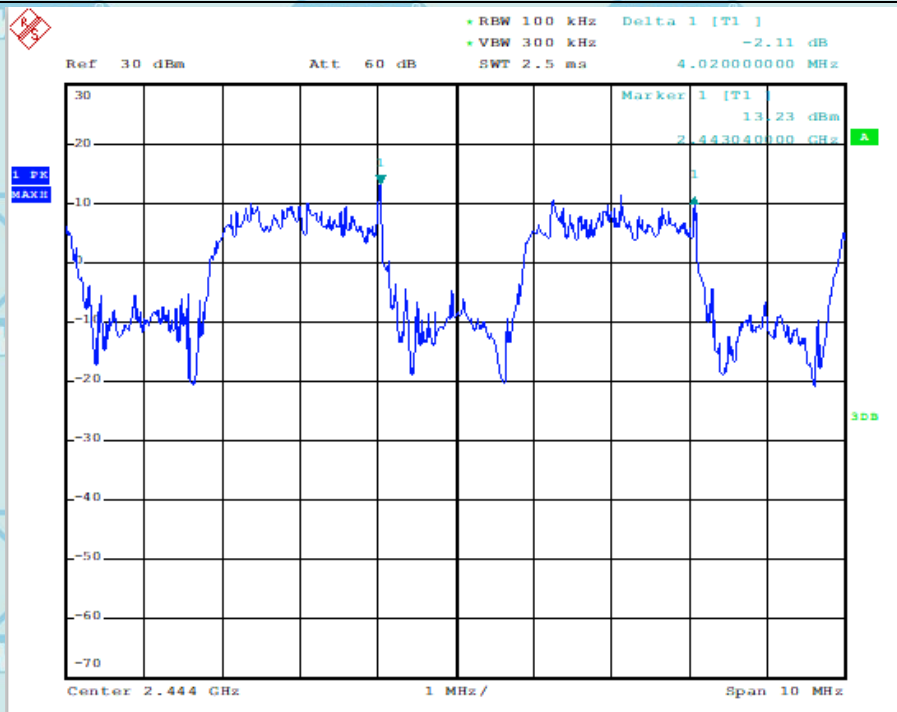
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ANT2:

CH01



CH10



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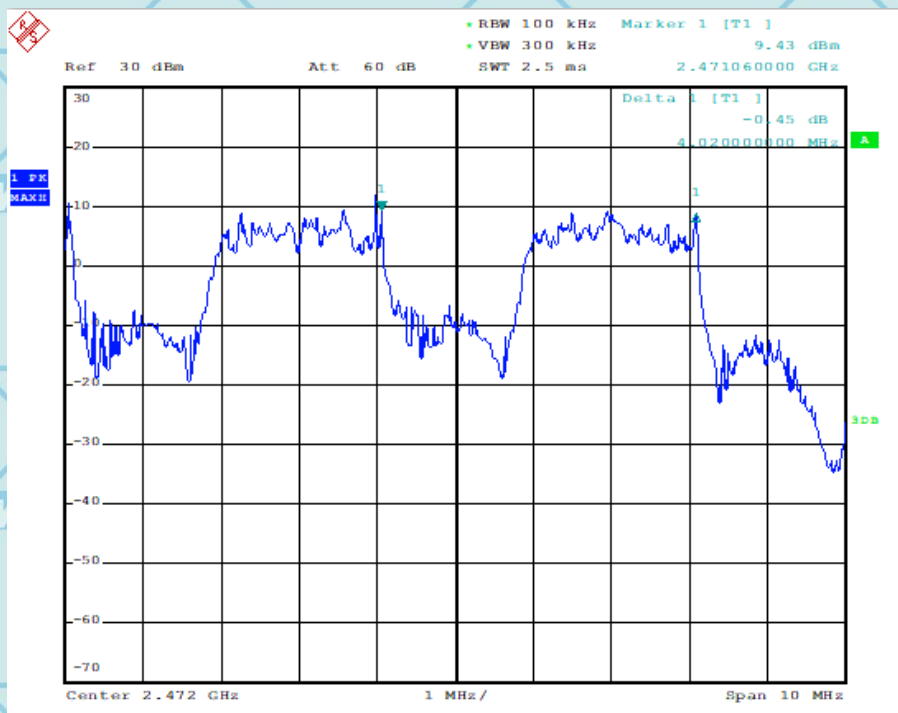
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8. BANDWIDTH TEST

8.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247 (a)(1)	Bandwidth	(20dB bandwidth)	2400-2483.5	PASS

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> Measurement Bandwidth or Channel Separation
RB	30kHz
VB	100 kHz
Detector	Peak
Trace	Max hold
Sweep Time	Auto

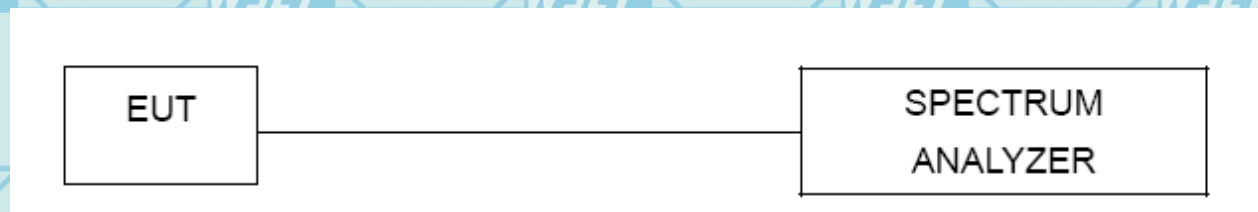
8.1.2 TEST PROCEDURE

1. Check the calibration of the measuring instrument (spectrum analyzer) using either an internal calibrator or a known signal from an external generator.
2. Set the spectrum analyzer as follows: VBW = 30kHz, RBW = 100kHz, Sweep = auto Detector function = peak, Trace = max hold
3. Measure the highest amplitude appearing on spectral display and record the level to calculate results.
4. Repeat above procedures until all frequencies measured were complete.

8.1.3 DEVIATION FROM STANDARD

No deviation.

8.1.4 TEST SETUP



8.1.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



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8.2 TEST RESULTS

Note: *the worst case is DH5 as result in this part.*

Pressure	1012 hPa	Test Mode	CH01/CH10/C18
Temperature	25°C	Relative Humidity	60%

ANT1:

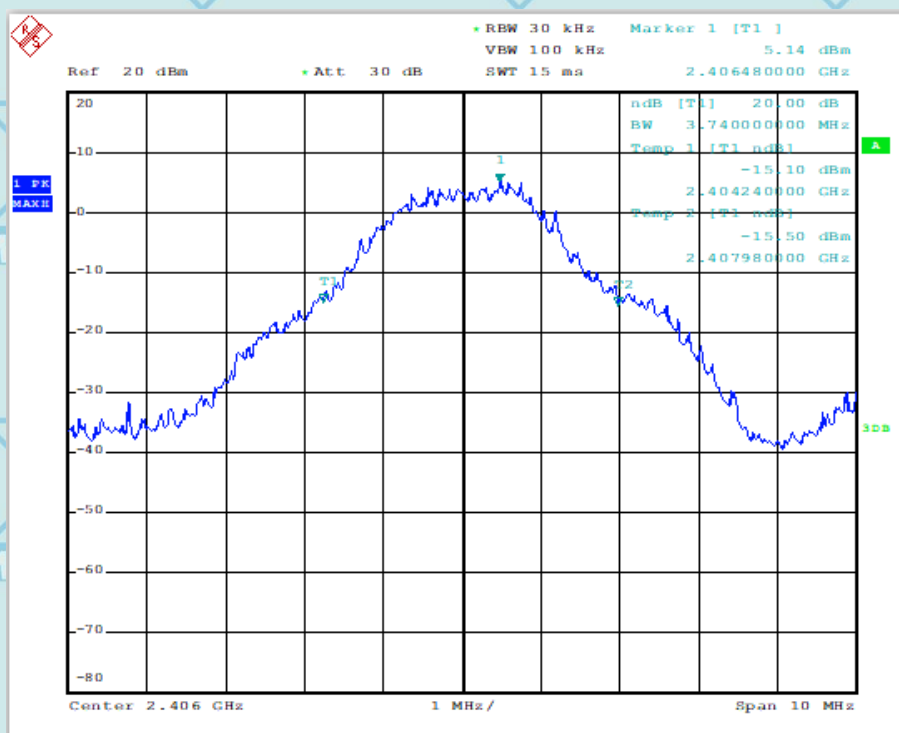
Frequency	20dB Bandwidth (kHz)	Result
2406 MHz	3740	PASS
2442 MHz	3960	PASS
2474 MHz	4000	PASS

ANT2:

Frequency	20dB Bandwidth (kHz)	Result
2406 MHz	3880	PASS
2442 MHz	3940	PASS
2474 MHz	3800	PASS

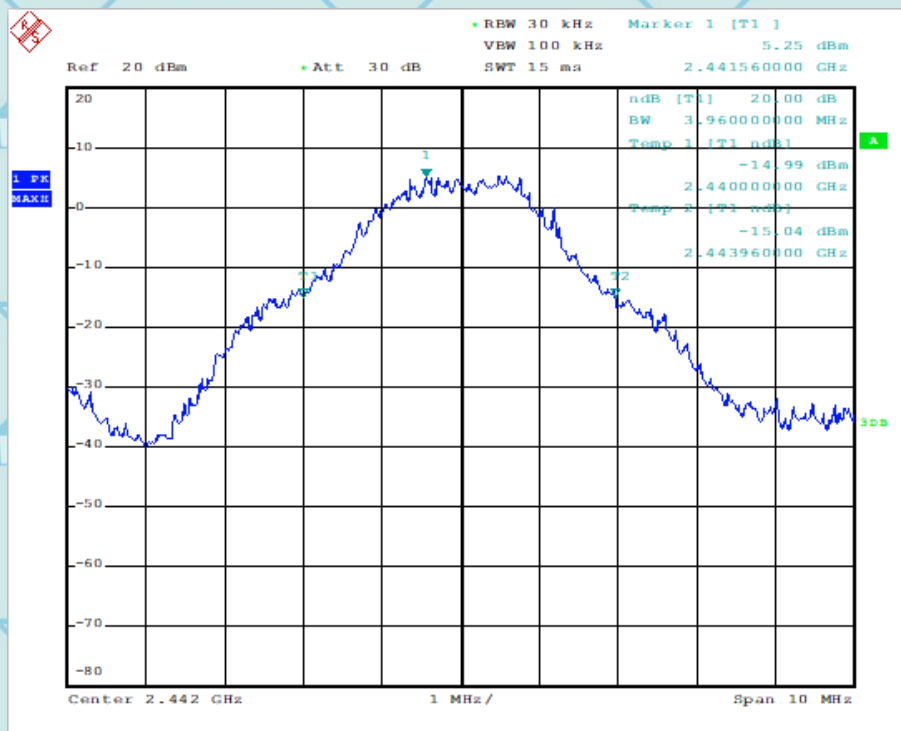
ANT1:

CH01

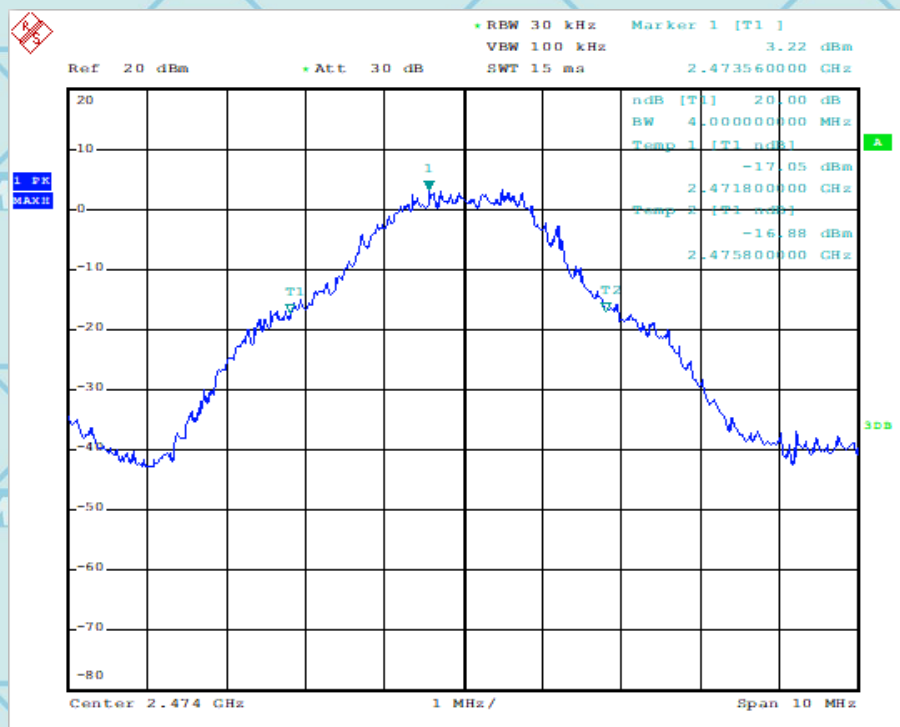




CH10



CH18

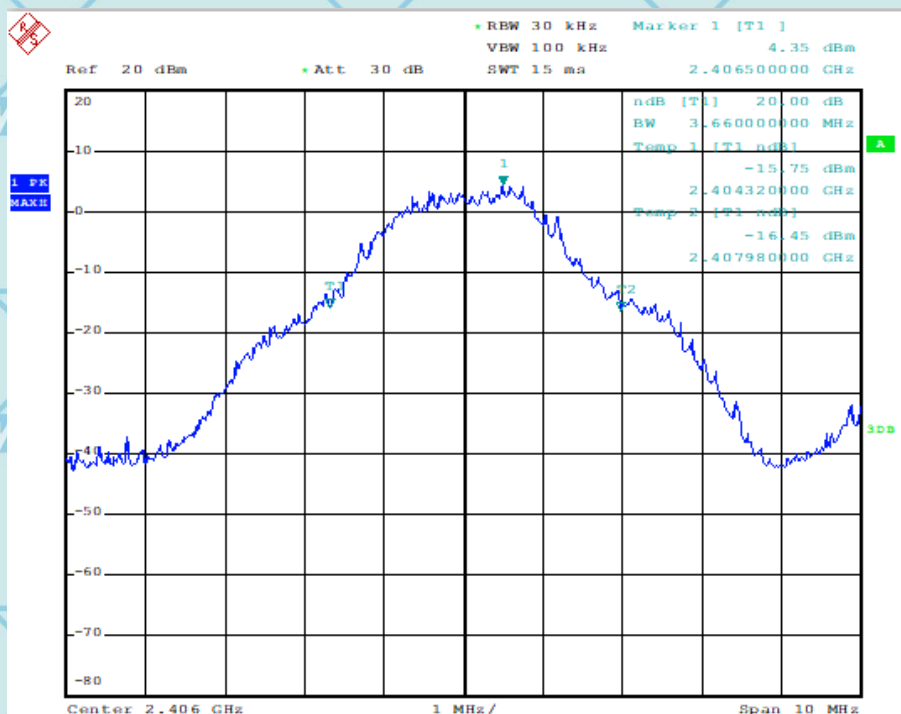




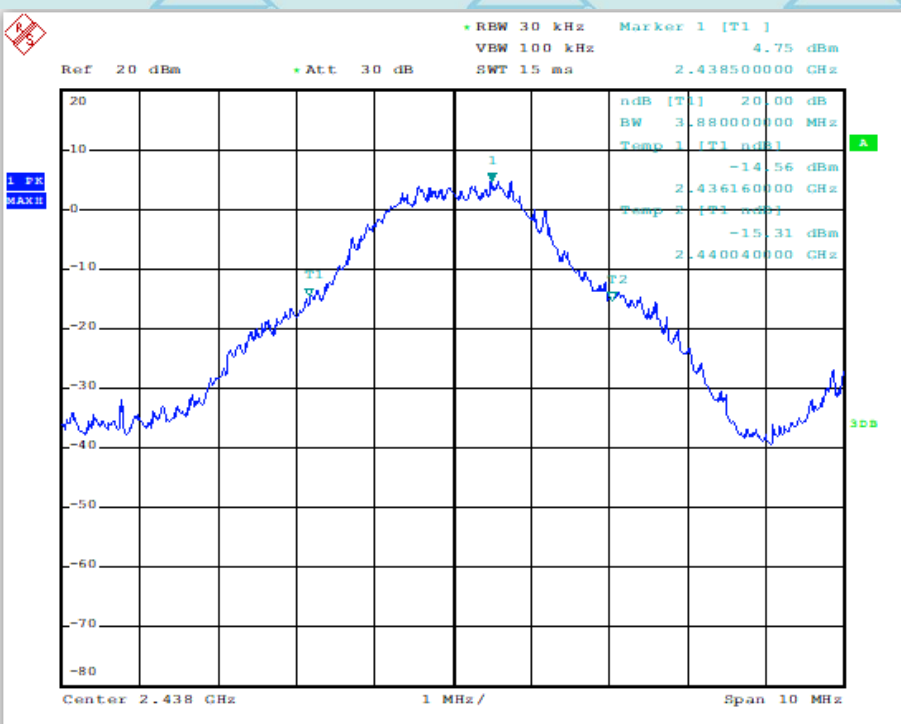
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ANT2:

CH01



CH10



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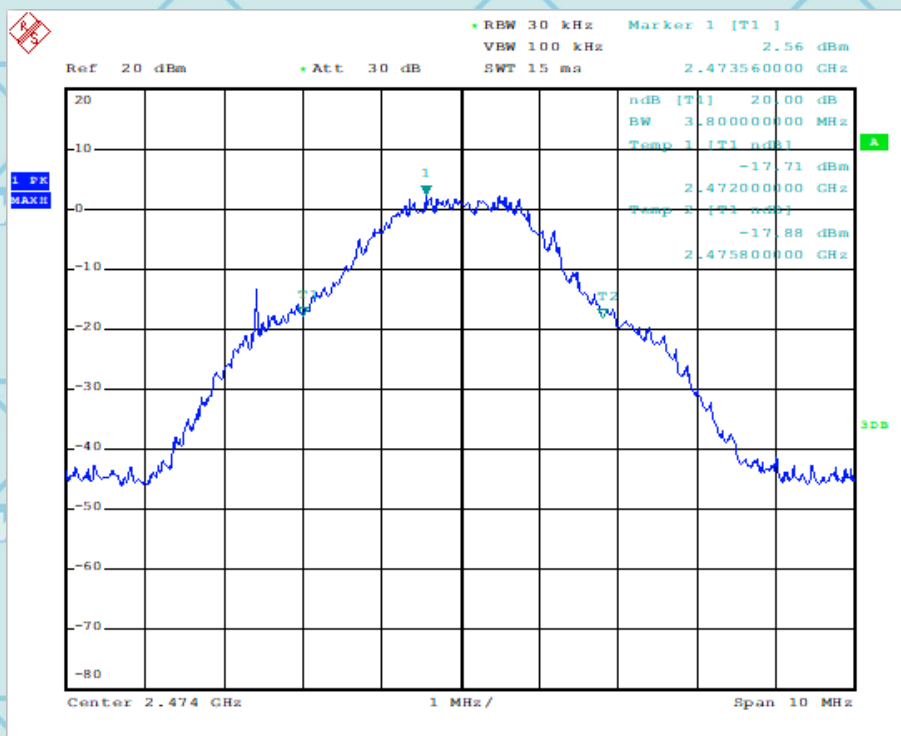
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CH18



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9. PEAK OUTPUT POWER TEST

9.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247 (b)(i)	Peak Output Power	0.125W	2400-2483.5	PASS

9.1.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- Setting : RBW =100KHz
 Span =10MHz
 VBW=300 KHz
 Sweep = auto
 Detector function = peak
 Trace = max hold

9.1.3 DEVIATION FROM STANDARD

No deviation.

9.1.4 TEST SETUP



9.1.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



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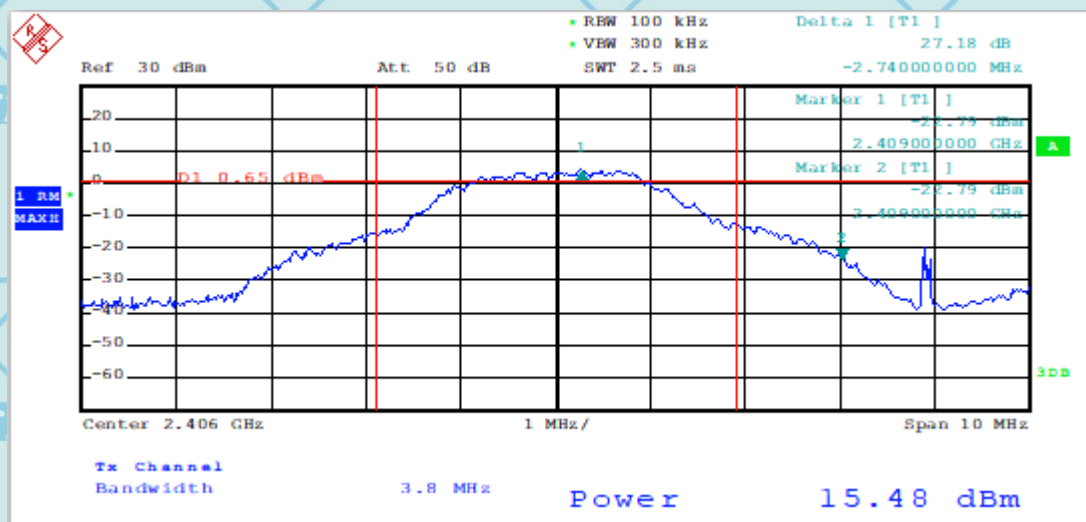
9.2 TEST RESULTS

Pressure	1012 hPa	Test Mode	CH00/ CH39 /CH78 (1M/2M/3Mbps Mode)
Temperature	25°C	Relative Humidity	60%

Test Channel	Frequency (MHz)	Peak Output Power (dBm)		LIMIT(dBm)	Result
		ANT1	ANT2		
CH01	2406	15.48	16.14	20.97	Pass
CH10	2442	15.45	16.64	20.97	Pass
CH18	2474	16.52	15.39	20.97	Pass

ANT1:

Channel: Low



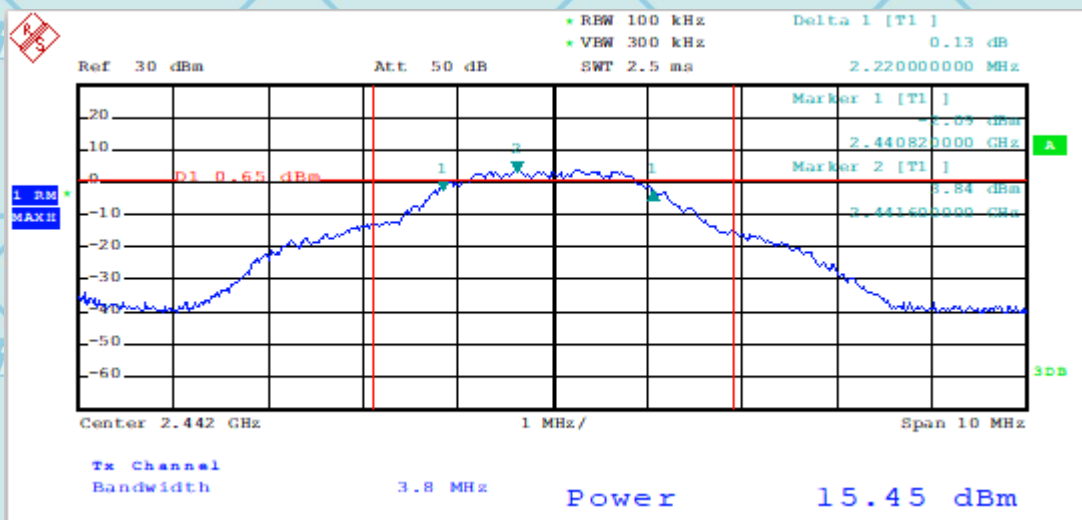
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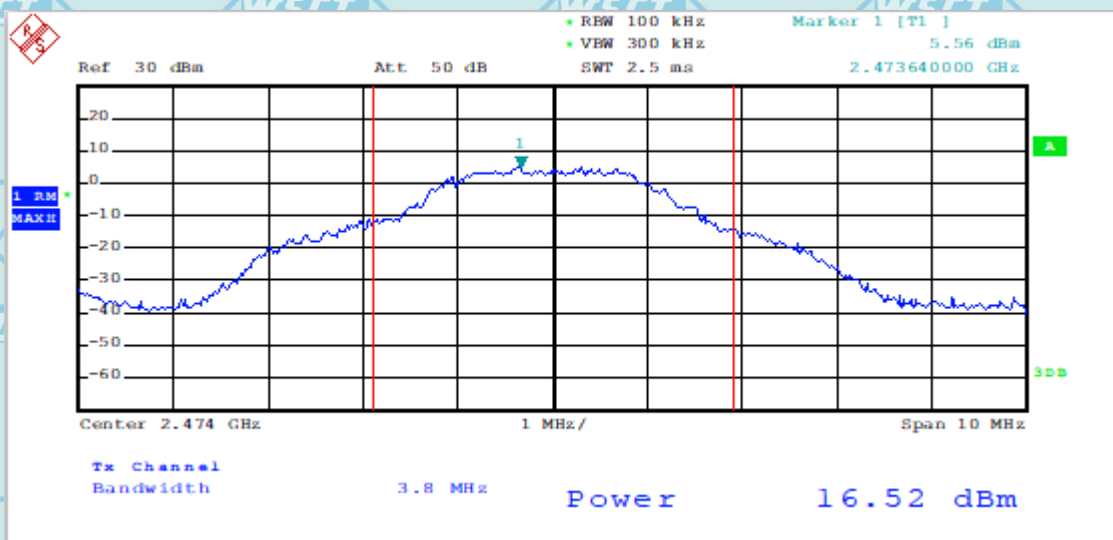
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Channel: Middle



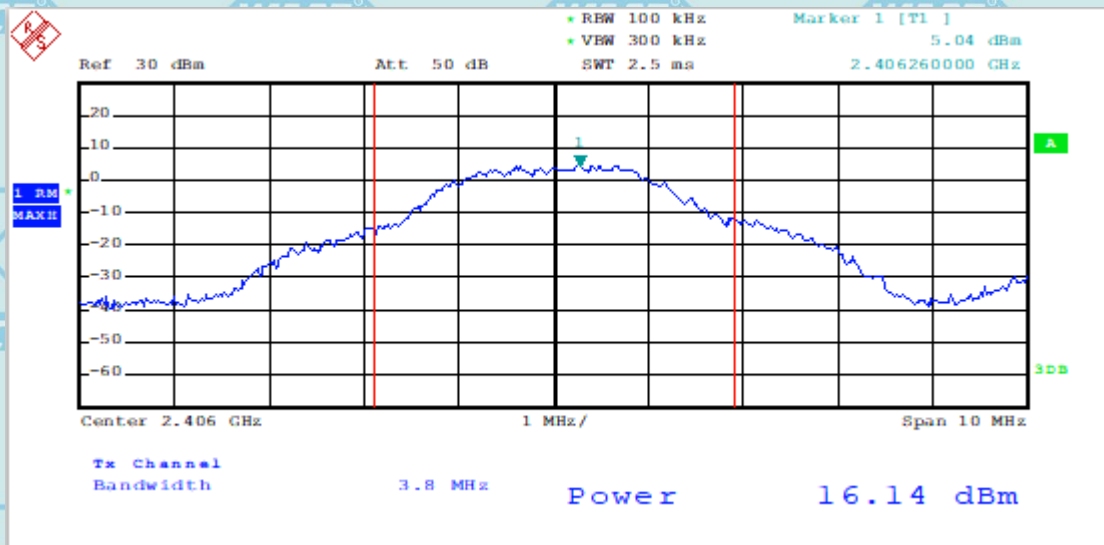
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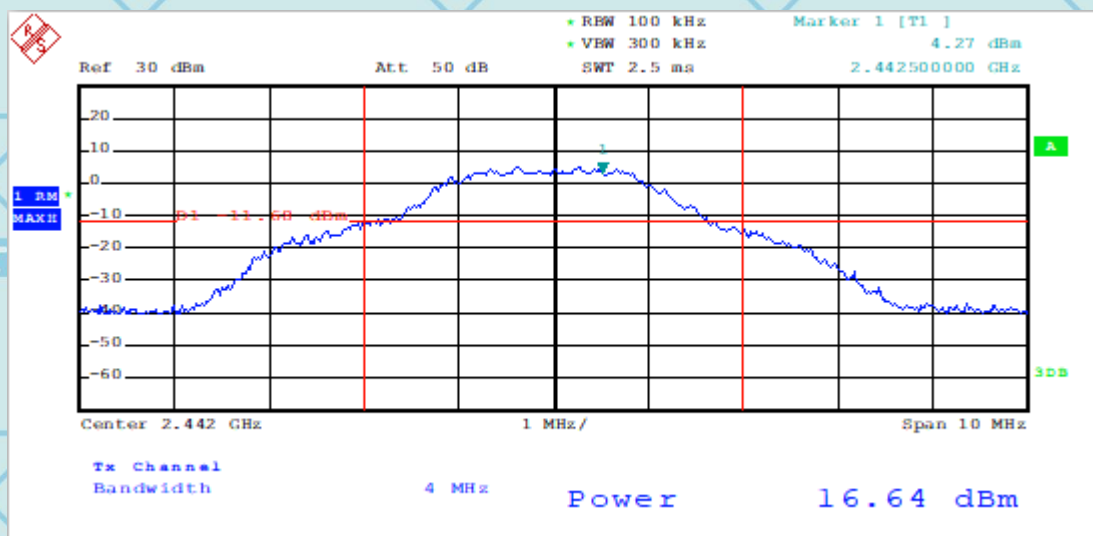


ANT2:

Channel: Low



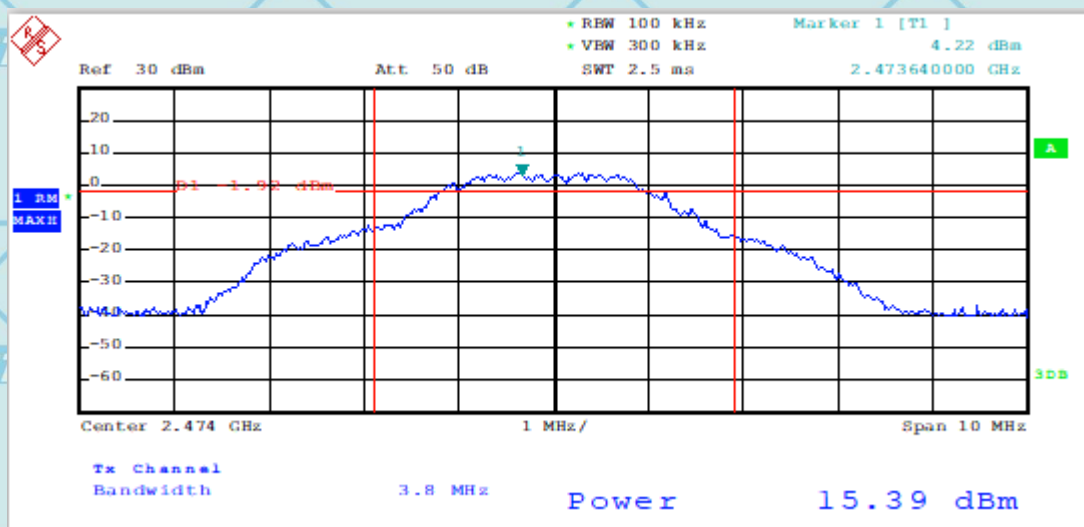
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Channel: High



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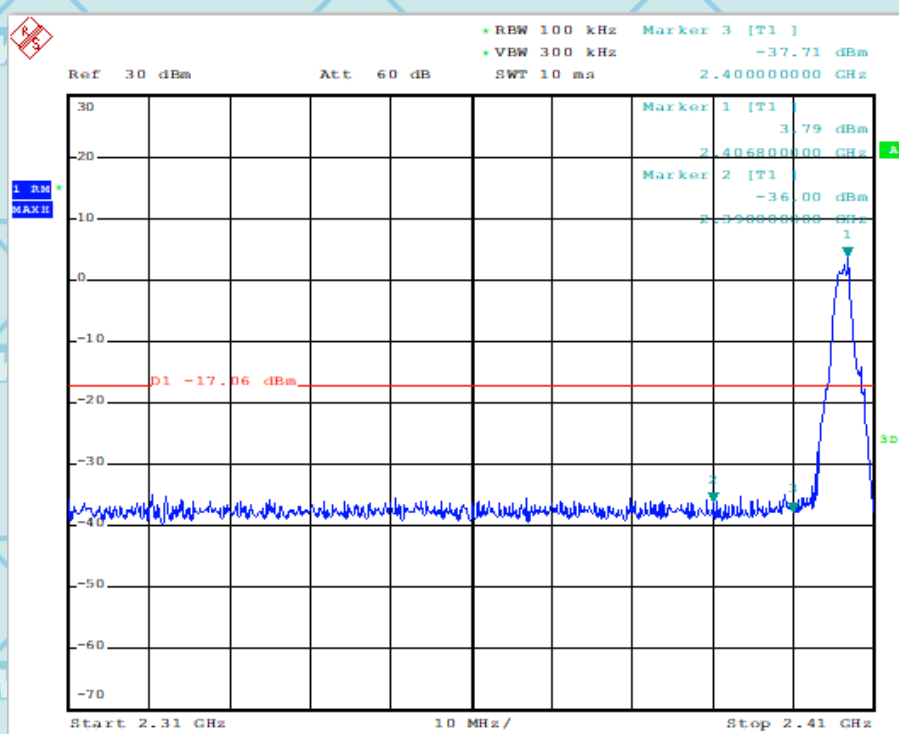
10. 100KHZ BAND EDGES MEASUREMENT

10.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(d)	Band Edges Measurement	(20dB bandwidth)	2400-2483.5	PASS

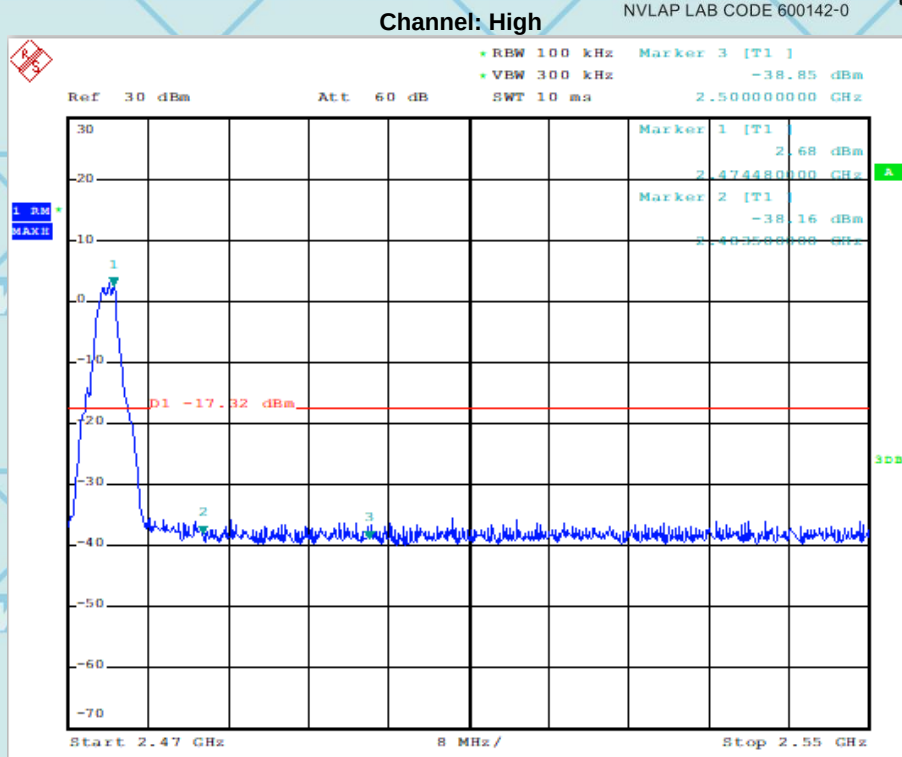
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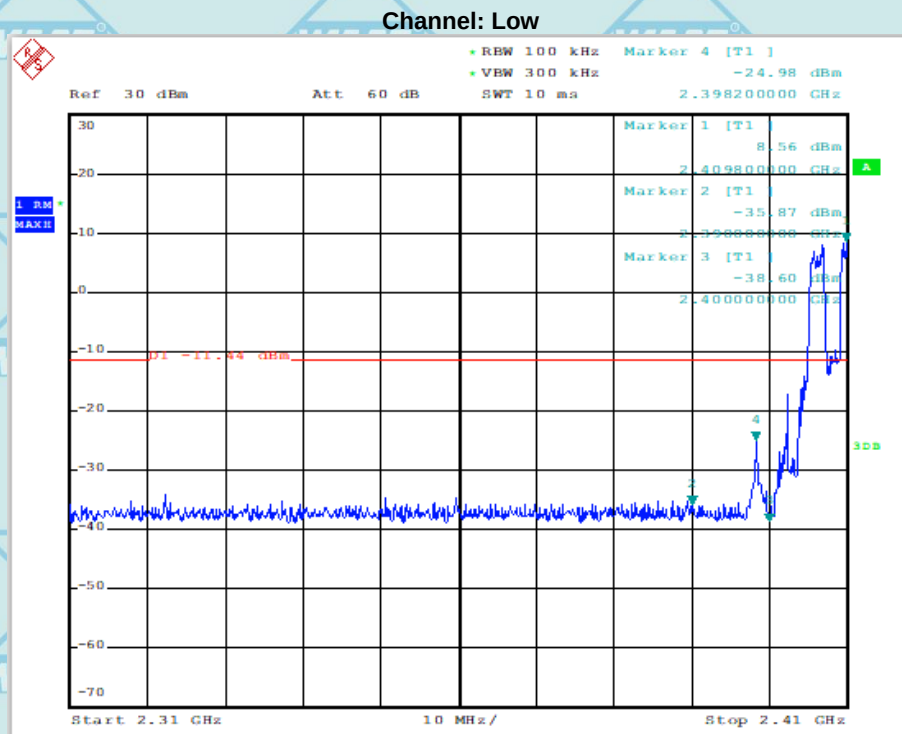




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Hopping



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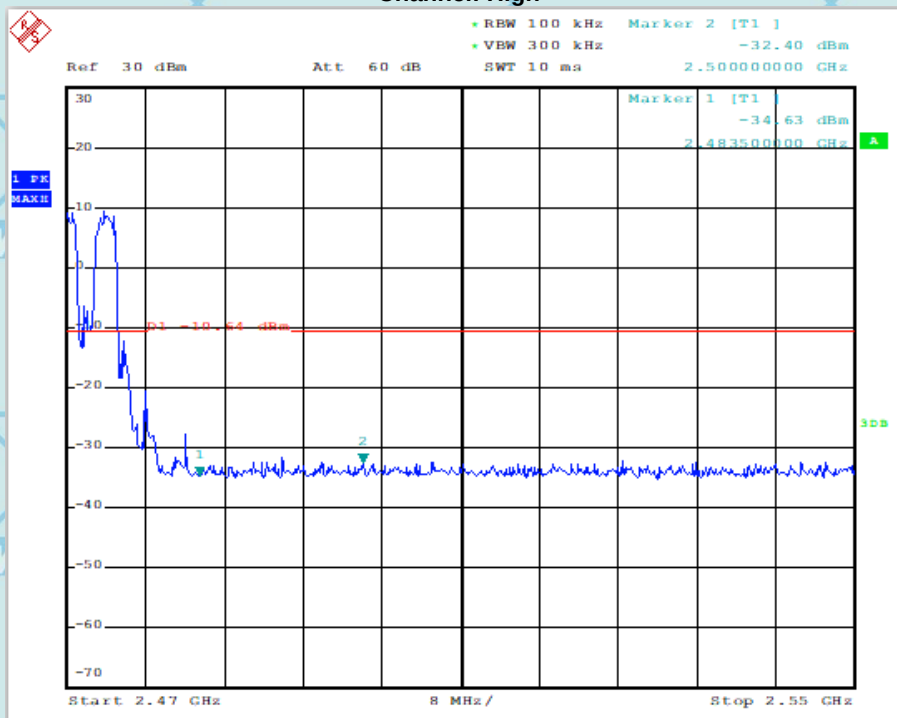
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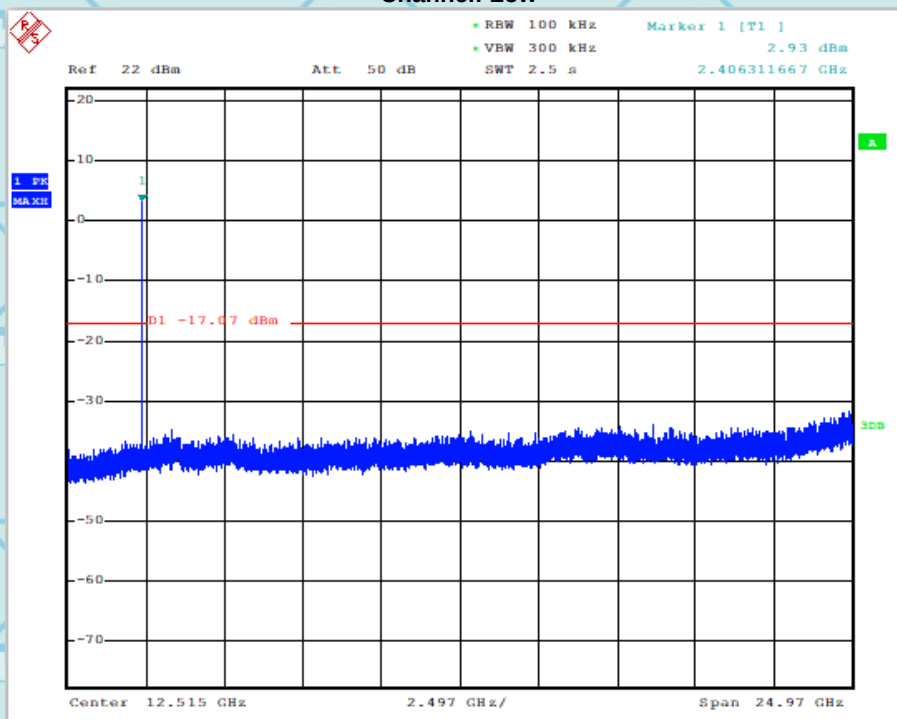


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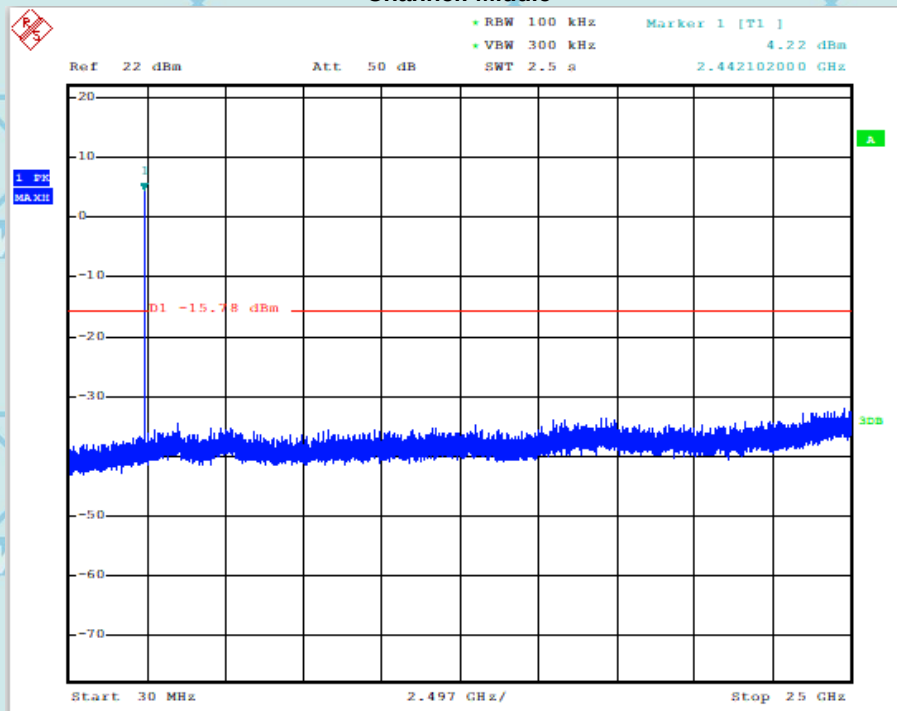
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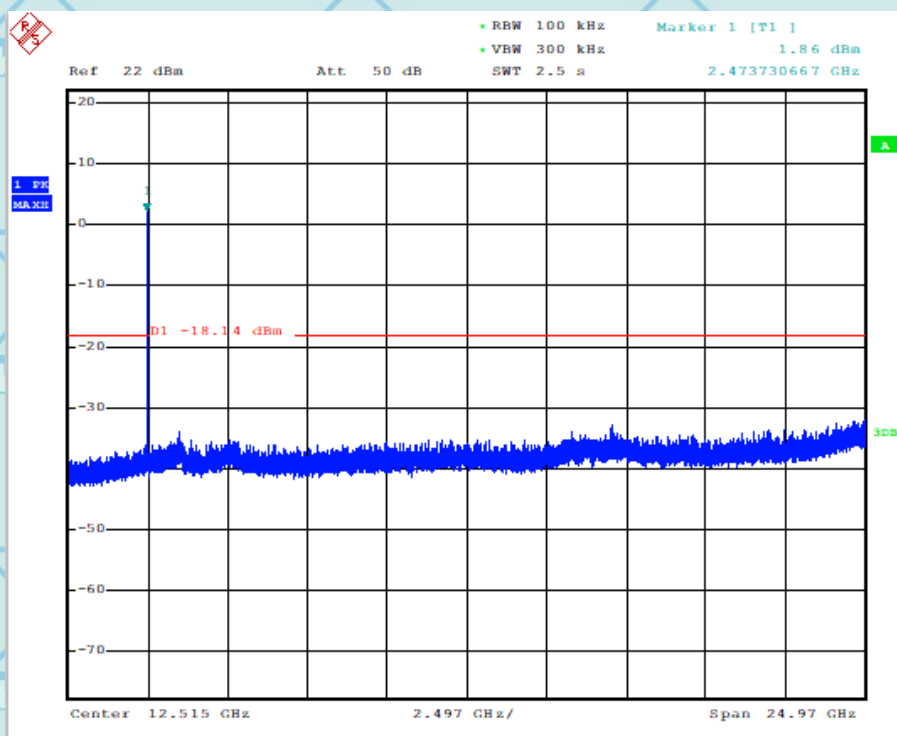


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Channel: Middle



Channel: High

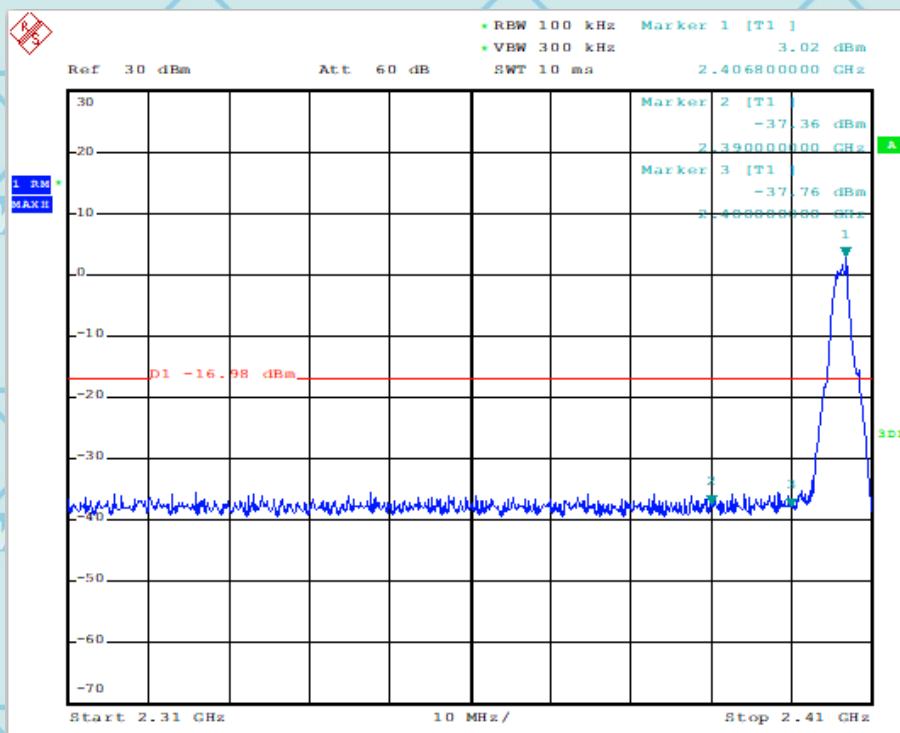




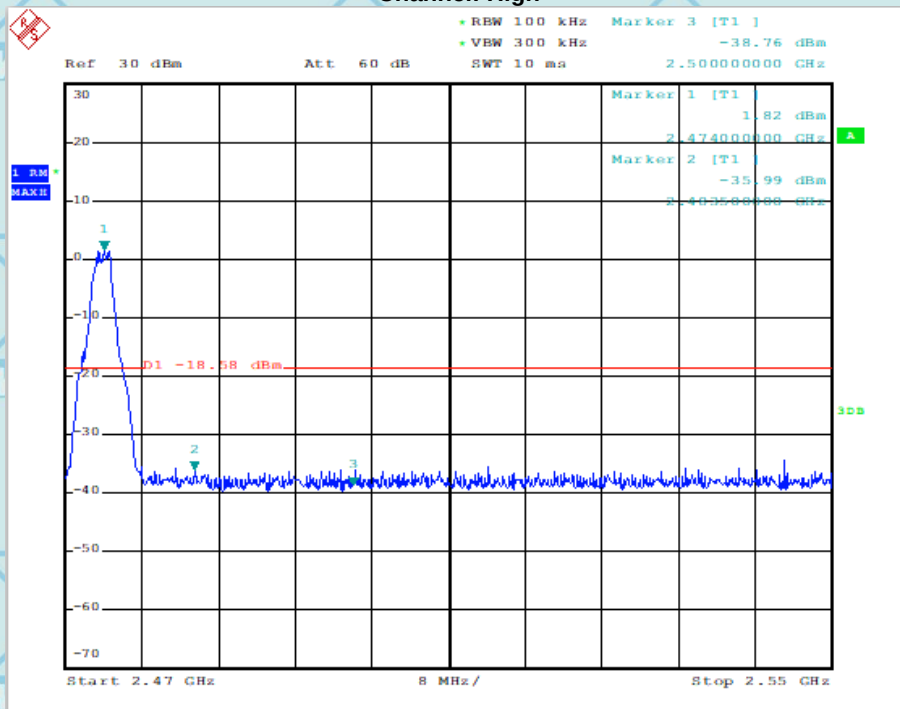
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ANT1:

Channel: Low



Channel: High



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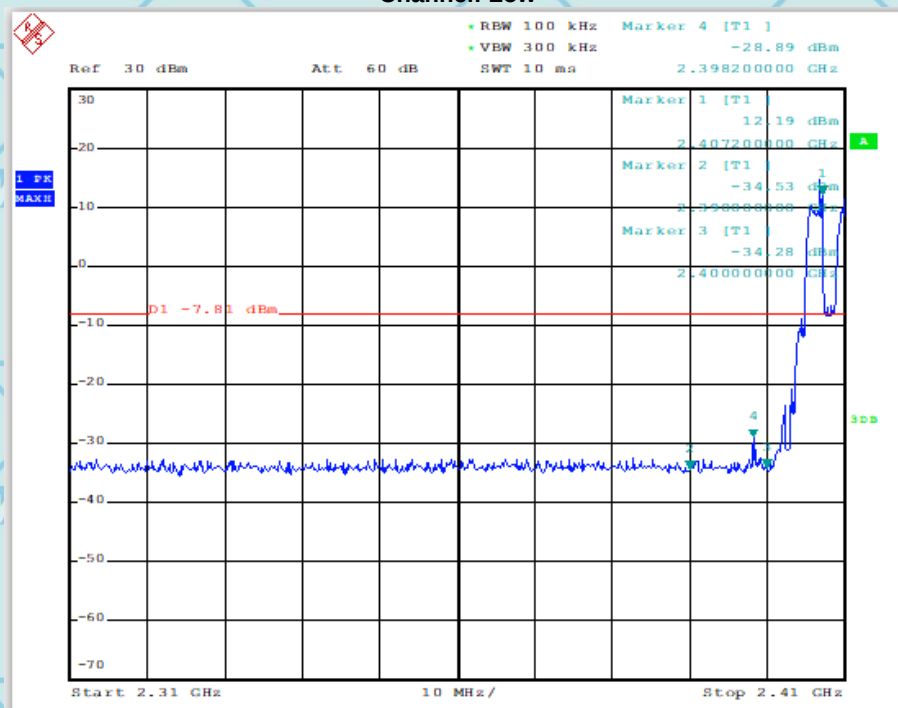
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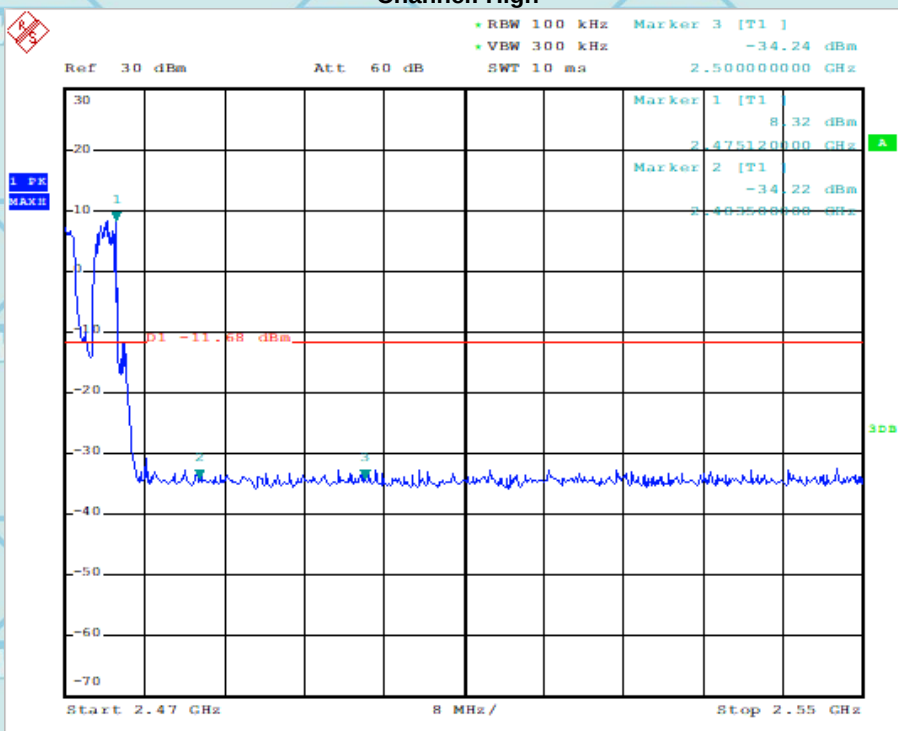


Hopping

Channel: Low



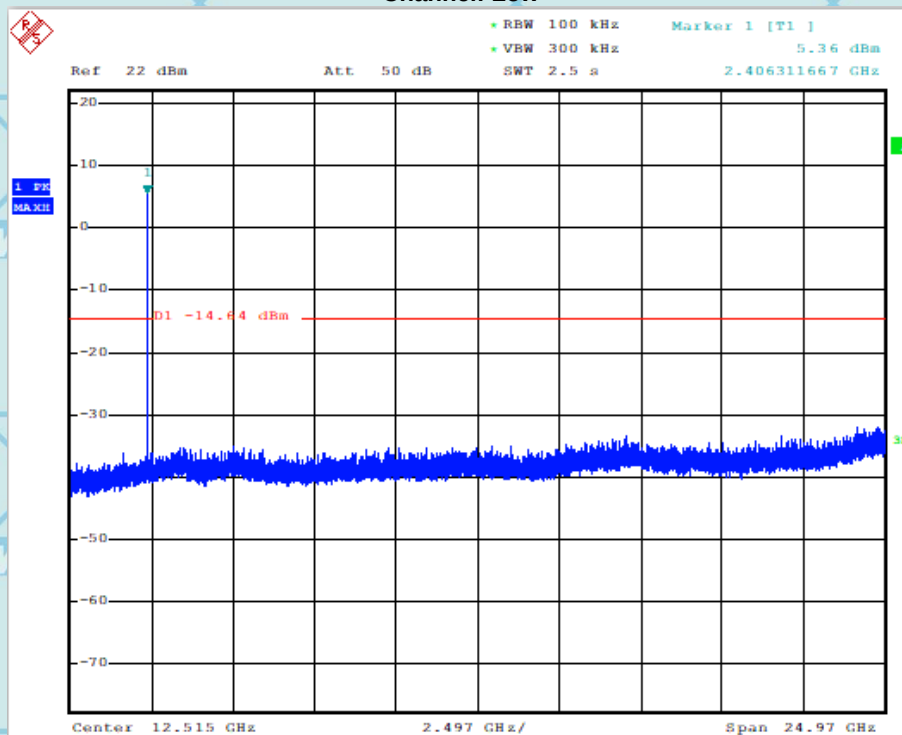
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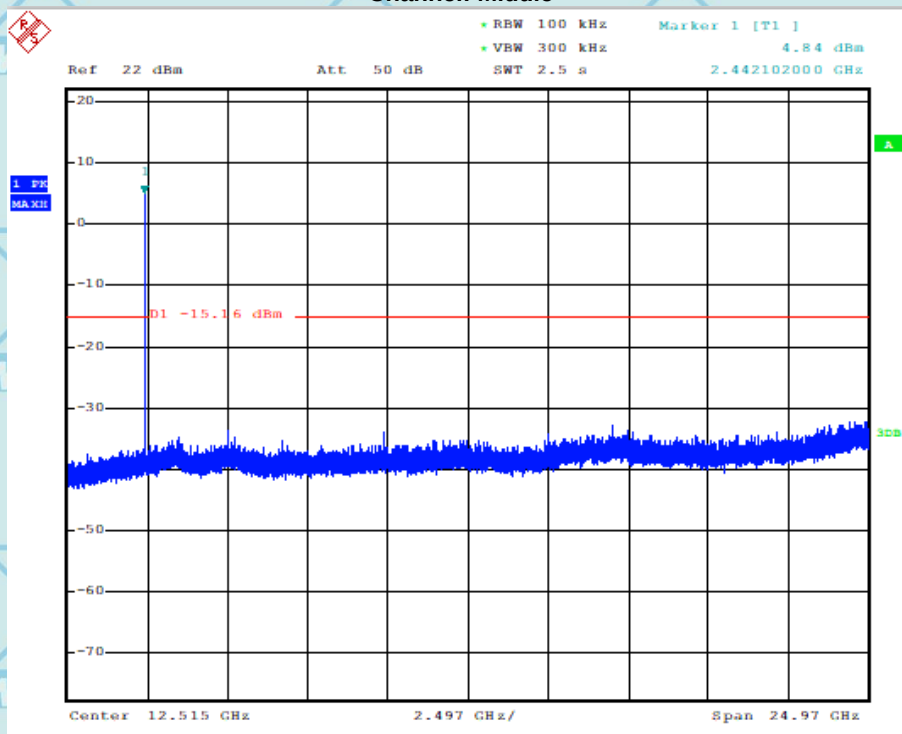


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Channel: Low



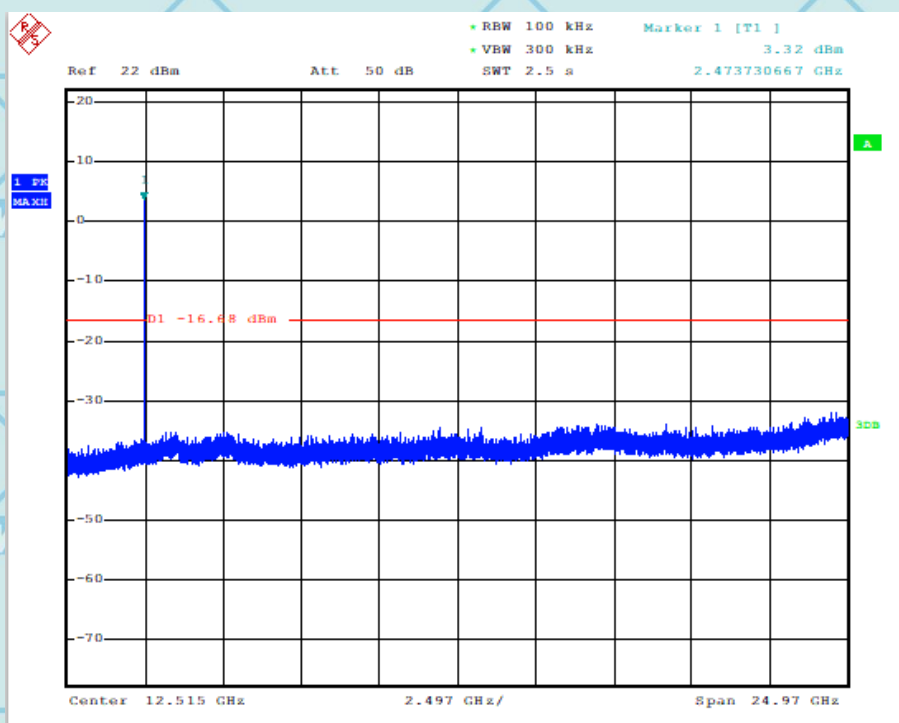
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Channel: High



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11. ANTENNA APPLICATION

11.1 ANTENNA REQUIREMENT

The EUT'S antenna is met the requirement of FCC part 15C section 15.203 and 15.247

FCC part 15C section 15.247 requirements: Systems operating in the 2402-2480MHz band that are used exclusively for fixed.

11.1.2 Result

The EUT's antenna Integral Antenna, The antenna's gain is 2.65dBi and meets the requirement.

---END OF REPORT---

