



FCC - TEST REPORT

Report Number : **68.950.19.0523.01** Date of Issue: June 10, 2019

Model : EC-BTH1

Product Type : EHX R&B Buds

Applicant : New Sensor Corporation.

Address : 55-01 2nd Street Long Island City NY 11101 United States

Manufacturer : New Sensor Corporation.

Address : 55-01 2nd Street Long Island City NY 11101 United States

Test Result : Positive Negative

Total pages including
Appendices : 48

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2 Details about the Test Laboratory

Details about the Test Laboratory

Company name: TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
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Shenzhen 518052
P.R. China

Telephone: 86 755 8828 6998
Fax: 86 755 828 5299

FCC Registration No.: 514049

3 Description of the Equipment Under Test

Product name: EHX R&B Buds

Model no.: EC-BTH1

FCC ID: 2ASV2-ECBTH1A

Brand name: **electro-harmonix**

Options and accessories: NIL

Rating: DC 3.7V internal battery

RF Transmission Frequency: 2402MHz-2480MHz

No. of Operated Channel: 79

Modulation: GFSK, $\pi/4$ -DQPSK/8DPSK

Antenna Type: Integrated antenna

Antenna Gain: 2.5dBi

Description of the EUT: EC-BTH1 is a wireless bluetooth earbuds.



4 Summary of Test Standards

Test Standards	
FCC Part 15 Subpart C 10-1-2018 Edition	PART 15 - RADIO FREQUENCY DEVICES Subpart C - Intentional Radiators

All the test methods were according to KDB558074 D01 15.247 Meas Guidance v05r02 and ANSI C63.10 (2013).

5 Summary of Test Results

Test Condition		Test Result
§15.207	Conducted emission AC power port	N/A
§15.247(b)(1)	Conducted peak output power	Pass
§15.247(e)	Power spectral density*	N/A
§15.247(a)(2)	6dB bandwidth	N/A
§15.247(a)(1)	20dB bandwidth	Pass
§15.247(a)(1)	Min. of Hopping Channel Carrier Frequency Separation	Pass
§15.247(a)(1)(iii)	Min number of hopping frequencies	Pass
§15.247(a)(1)(iii)	Dwell Time - Average Time of Occupancy	Pass
§15.247(d)	Spurious RF conducted emissions	Pass
§15.247(d)	Band edge	Pass
§15.247(d) & §15.209 &	Spurious radiated emissions for transmitter and receiver	Pass
§15.203	Antenna requirement	See Note 2

Note 1: N/A=Not Applicable.

Note 2: The EUT uses a Integrated antenna, which gain is 2.5dBi. In accordance to §15.203, it is considered sufficiently to comply with the provisions of this section.



6 General Remarks

Remarks

This submittal(s) (test report) is intended for FCC ID: 2ASV2-ECBTH1A, complies with Section 15.209, 15.247 of the FCC Part 15, Subpart C rules.

This report is only for Bluetooth BR EDR. The TX and RX range is 2402MHz-2480MHz.

SUMMARY:

All tests according to the regulations cited on page 5 were

n - Performed

o - **Not** Performed

The Equipment Under Test

n - **Fulfills** the general approval requirements.

o - **Does not** fulfill the general approval requirements.

Sample Received Date: May 7, 2019

Testing Start Date: May 10, 2019

Testing End Date: June 6, 2019

Reviewed by:

Prepared by:

Tested by:

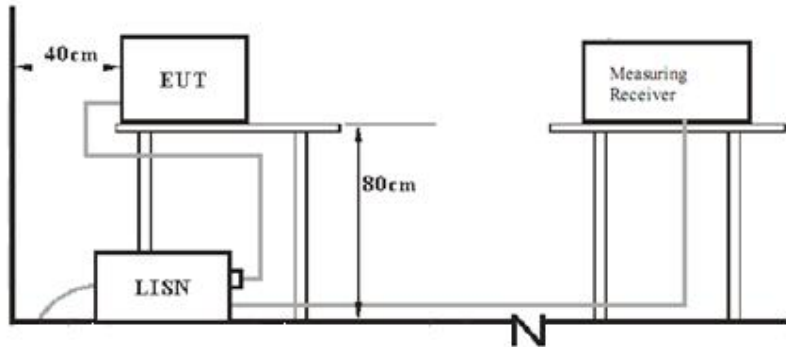
John Zhi
Section Manager

Moon Xiong
Project Engineer

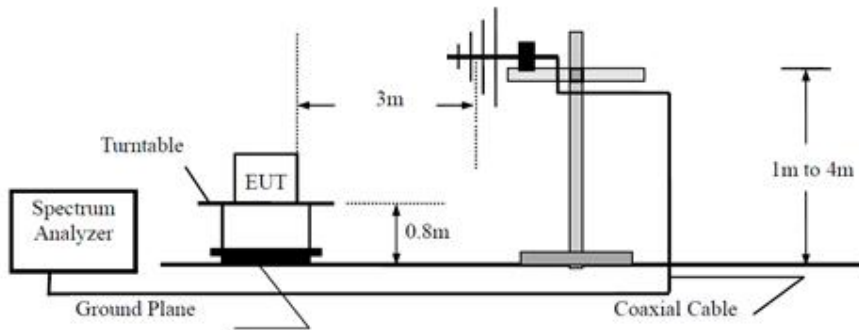
Louise Liu
Test Engineer

7 Test Setups

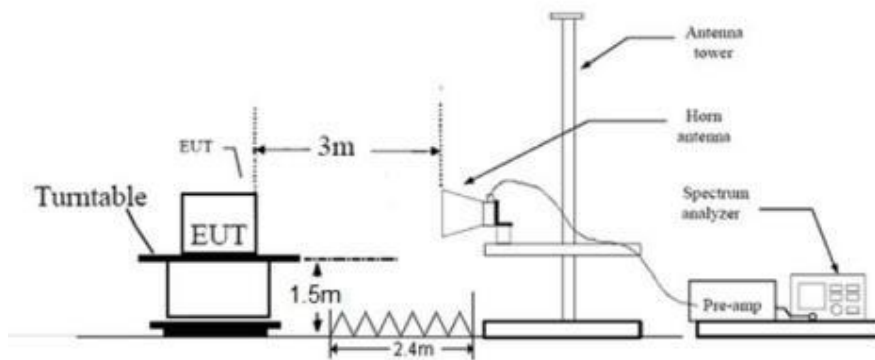
7.1 AC Power Line Conducted Emission test setups



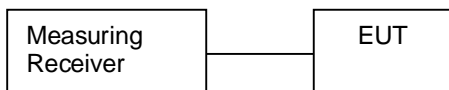
7.2 Radiated test setups Below 1GHz



Above 1GHz



7.3 Conducted RF test setups



8 Technical Requirement

8.1 Conducted peak output power

Test Method

1. Use the following spectrum analyzer settings:
Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel
RBW > the 20 dB bandwidth of the emission being measured, VBW ≥ RBW,
Sweep = auto, Detector function = peak, Trace = max hold
2. Add a correction factor to the display.
3. Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power

Limits

Frequency Range MHz	Limit W	Limit dBm
2400-2483.5	≤1	≤30

Conducted peak output power

Bluetooth Mode GFSK modulation Test Result

Frequency MHz	Conducted Peak Output Power dBm	Result
Low channel 2402MHz	-10.17	Pass
Middle channel 2441MHz	-8.99	Pass
High channel 2480MHz	-8.94	Pass

Bluetooth Mode $\pi/4$ -DQPSK modulation Test Result

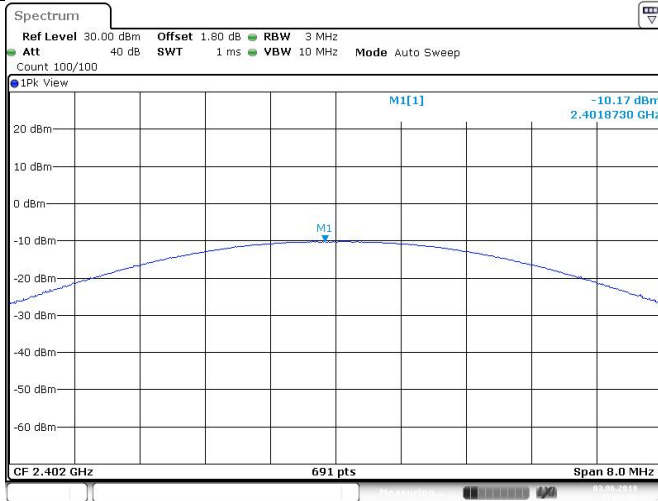
Frequency MHz	Conducted Peak Output Power dBm	Result
Low channel 2402MHz	-8.2	Pass
Middle channel 2441MHz	-6.86	Pass
High channel 2480MHz	-6.6	Pass

Bluetooth Mode 8DPSK modulation Test Result

Frequency MHz	Conducted Peak Output Power dBm	Result
Low channel 2402MHz	-7.71	Pass
Middle channel 2441MHz	-6.37	Pass
High channel 2480MHz	-6.13	Pass

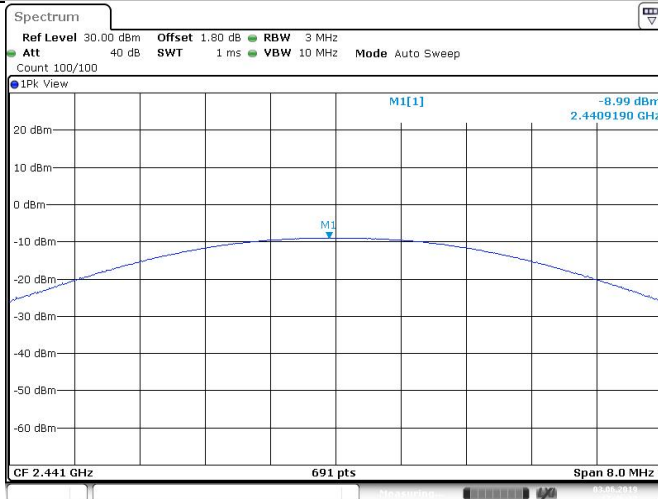


DH5_Ant1_2402



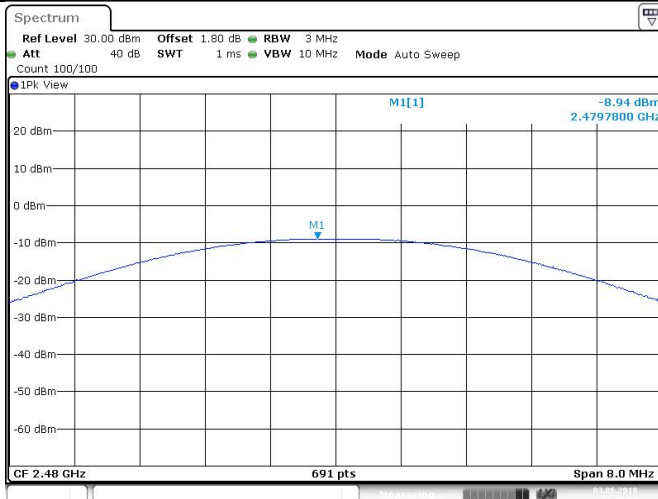
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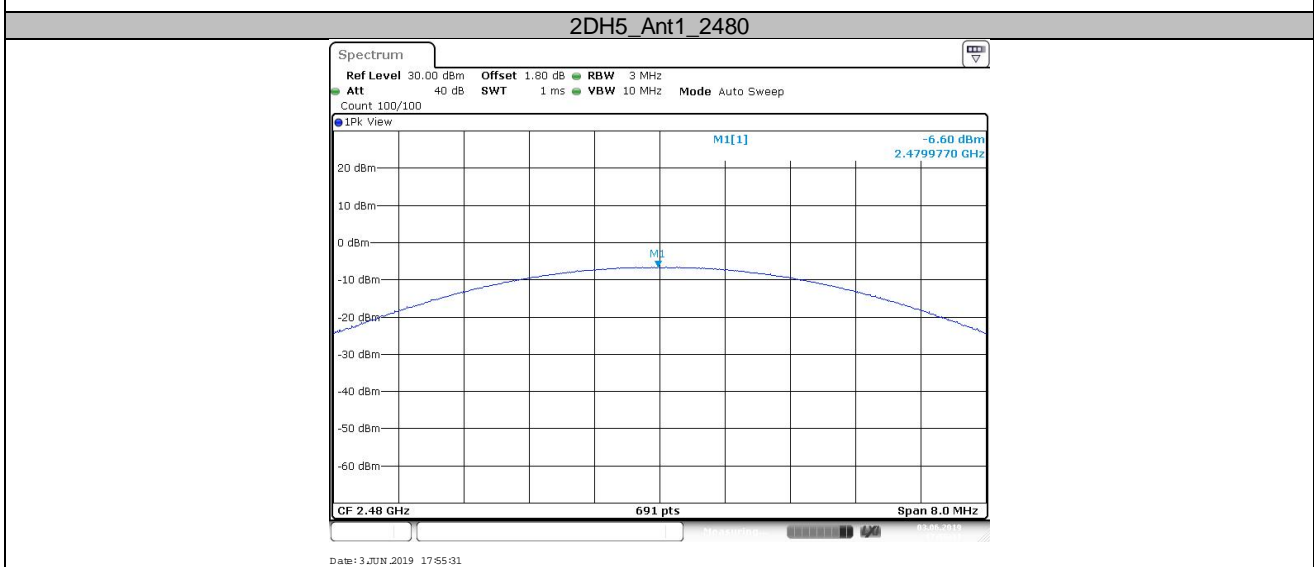
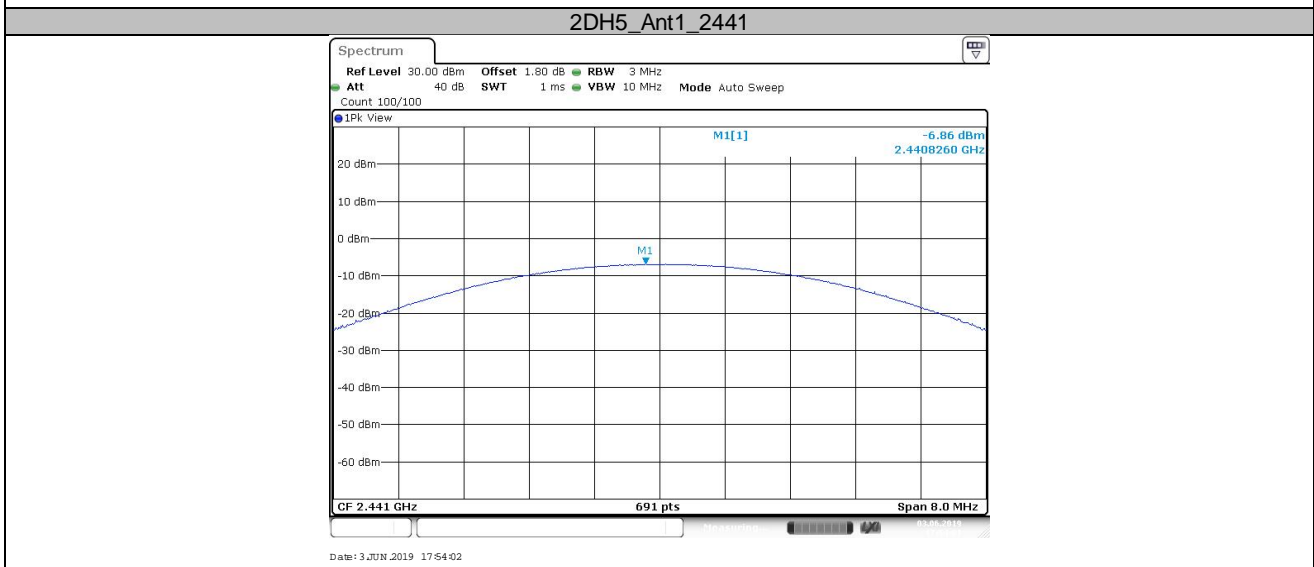
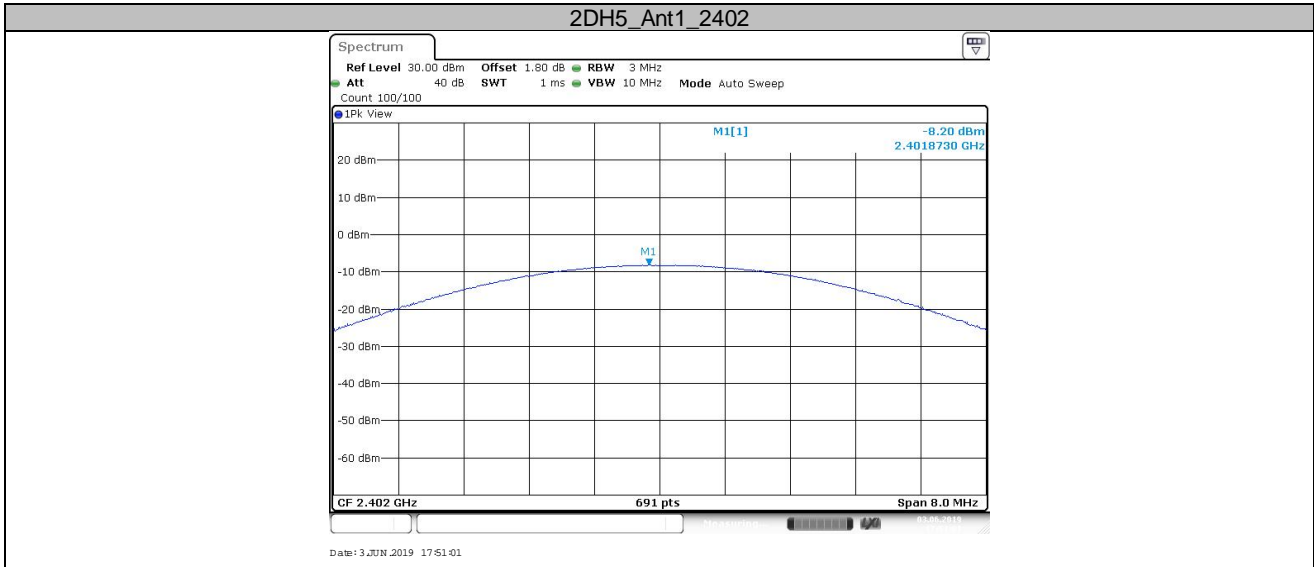


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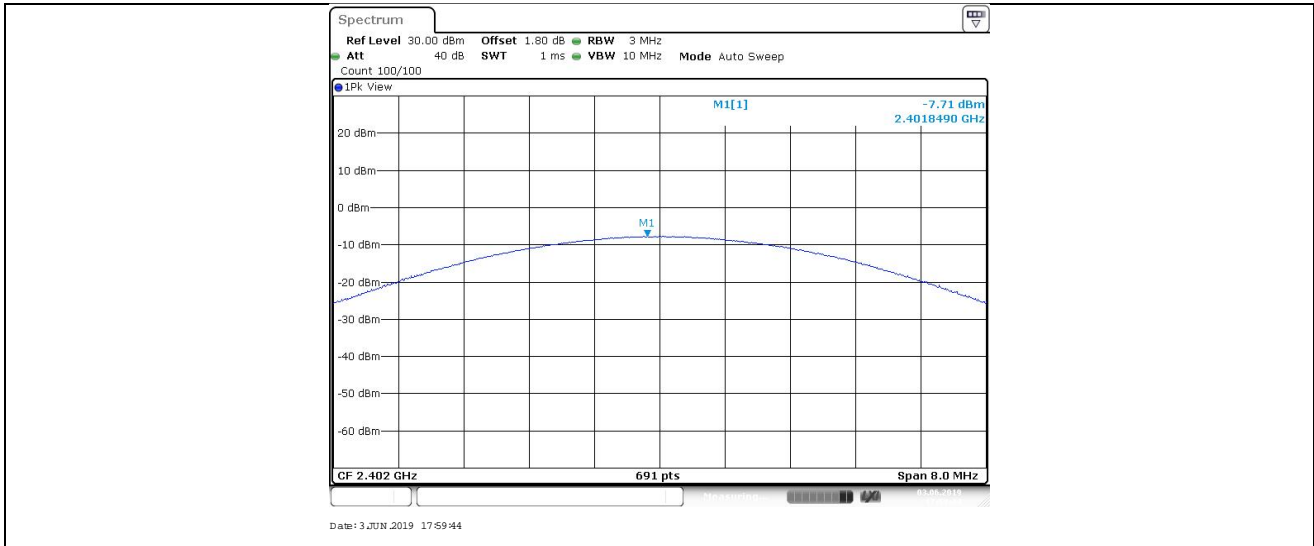
DH5_Ant1_2480



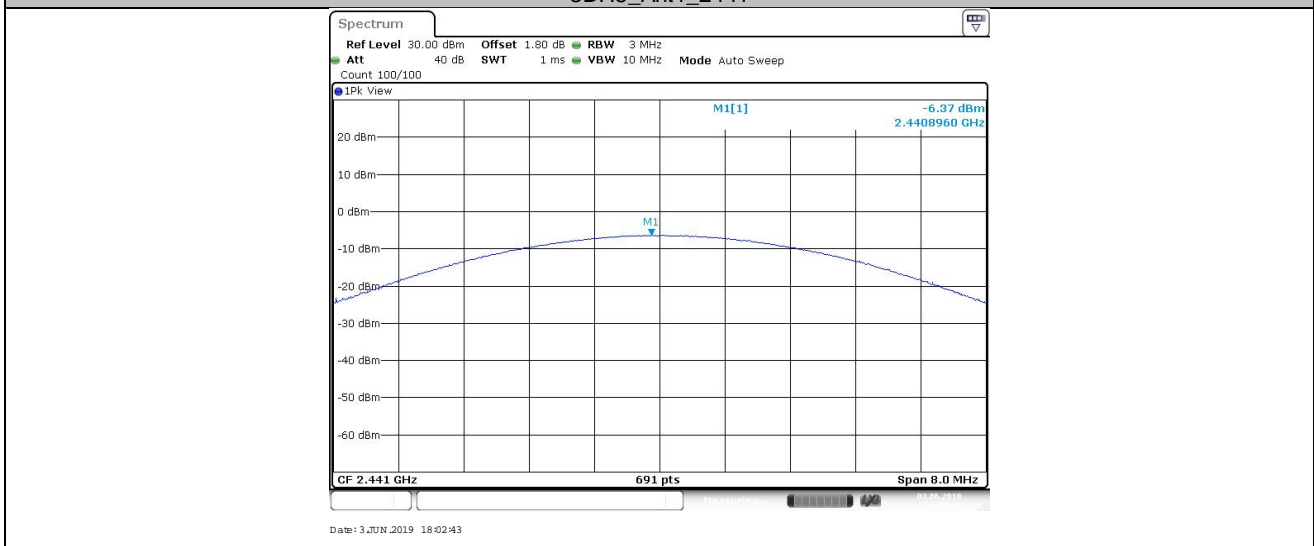
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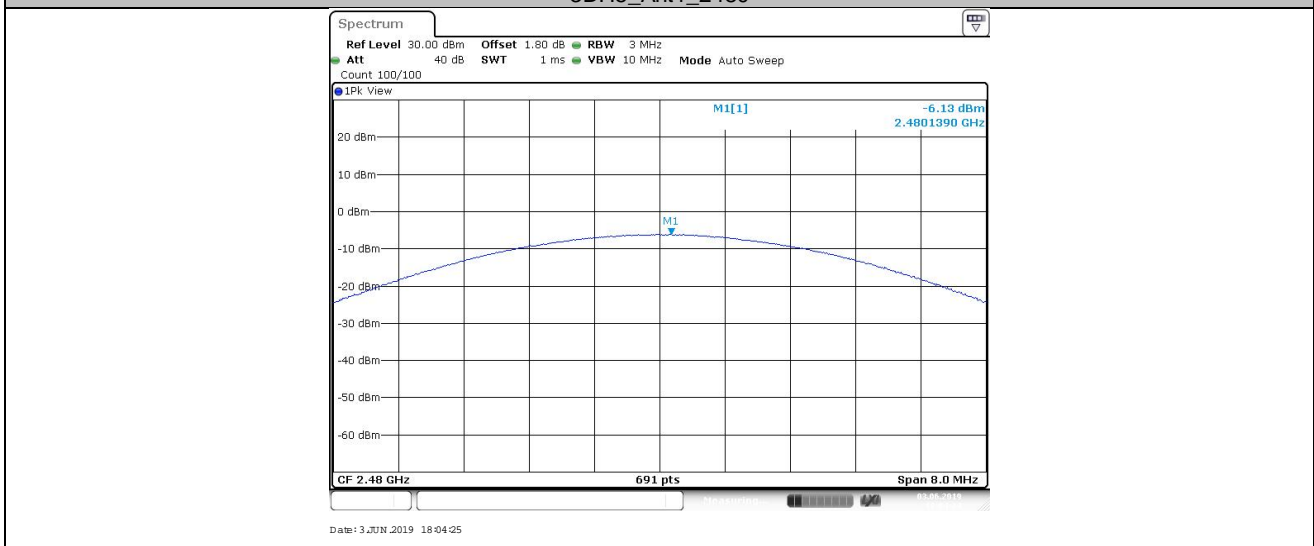
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480





8.2 20 dB bandwidth

Test Method

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
3. Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.
4. Repeat above procedures until all frequencies measured were complete.

Limit

Limit [kHz]

N/A

20 dB bandwidth

Bluetooth Mode GFSK Modulation test result

Frequency MHz	20 dB Bandwidth kHz	Limit kHz	Result
2402	1125	--	Pass
2441	1125	--	Pass
2480	1125	--	Pass

20 dB bandwidth

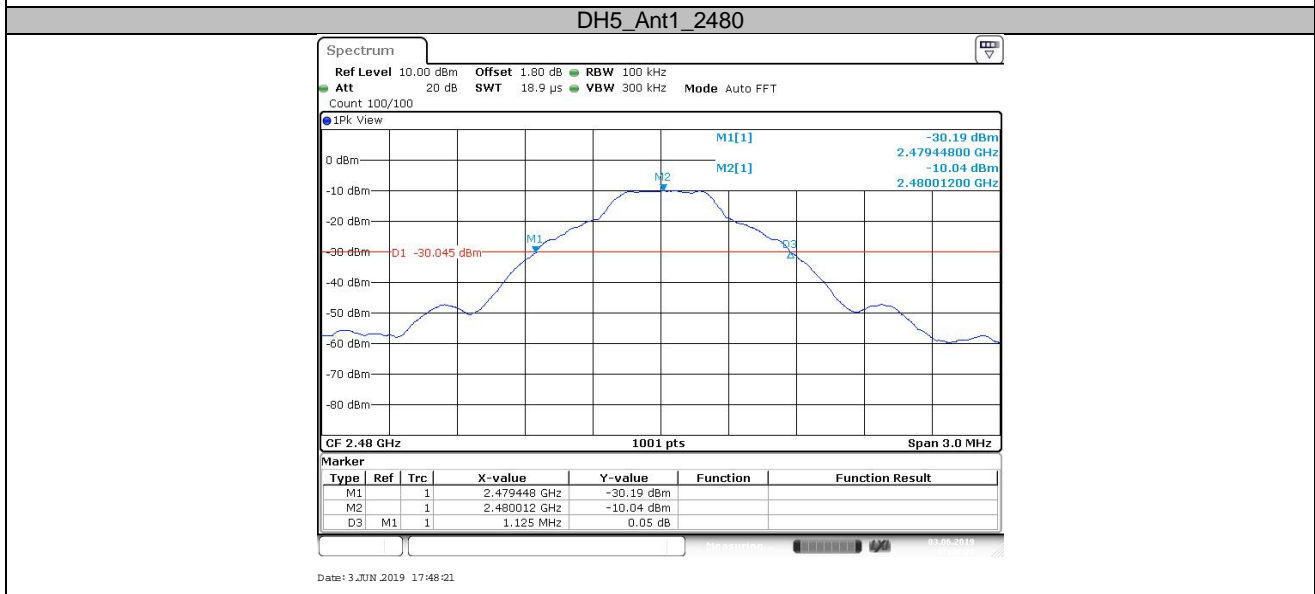
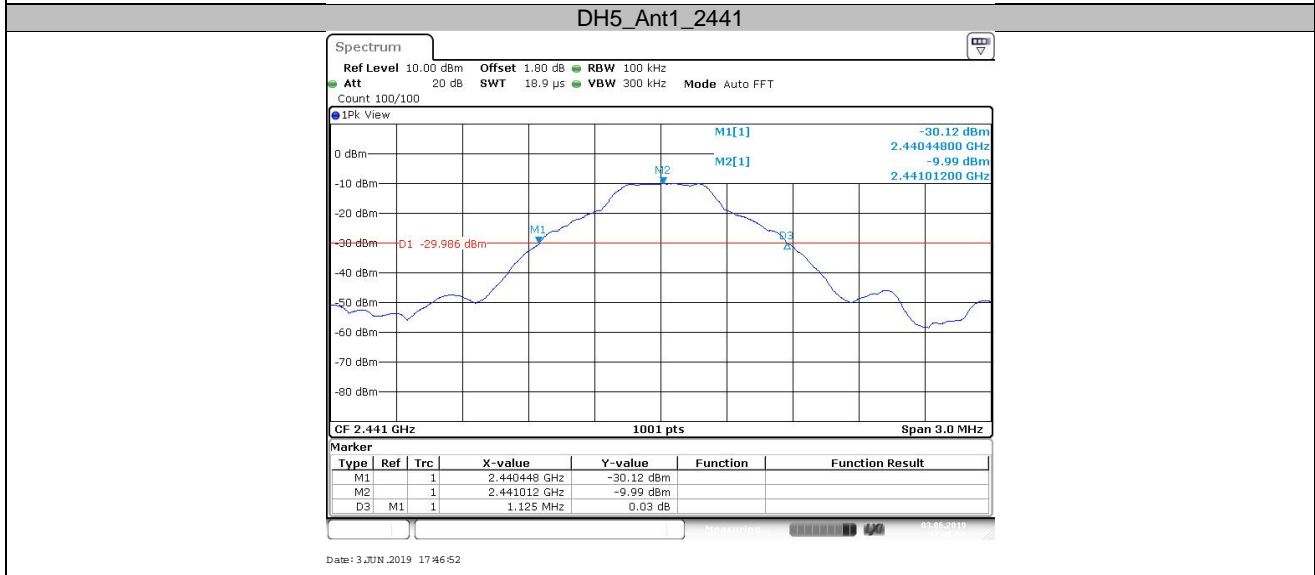
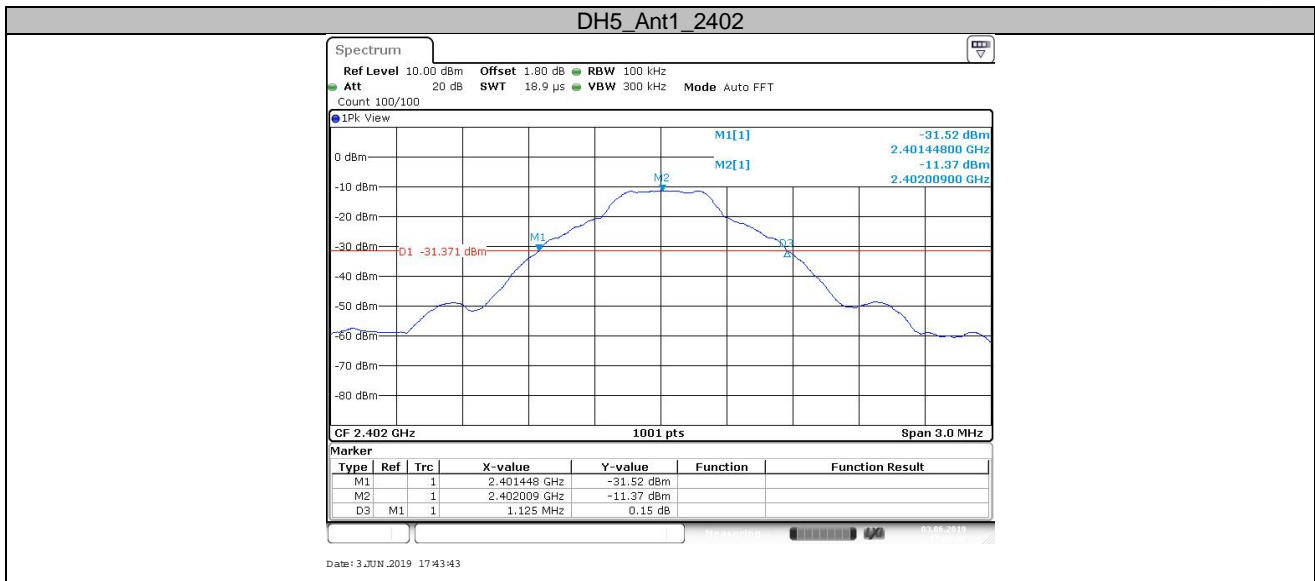
Bluetooth Mode $\pi/4$ -DQPSK Modulation test result

Frequency MHz	20 dB Bandwidth kHz	Limit kHz	Result
2402	1419	--	Pass
2441	1419	--	Pass
2480	1416	--	Pass

20 dB bandwidth

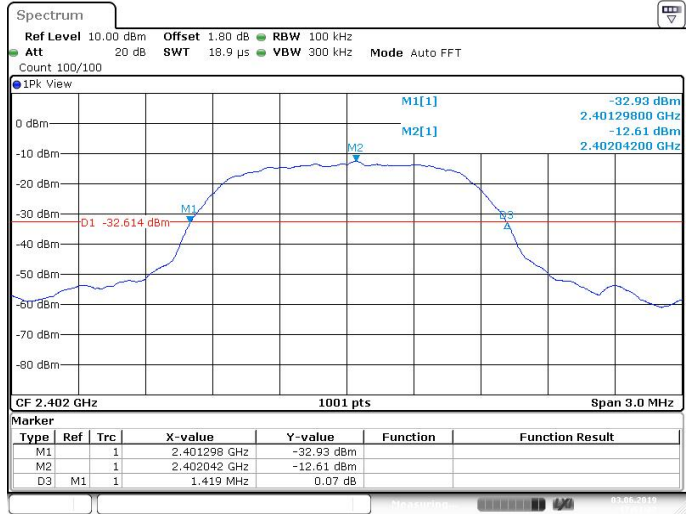
Bluetooth Mode 8DPSK Modulation test result

Frequency MHz	20 dB Bandwidth kHz	Limit kHz	Result
2402	1419	--	Pass
2441	1419	--	Pass
2480	1416	--	Pass



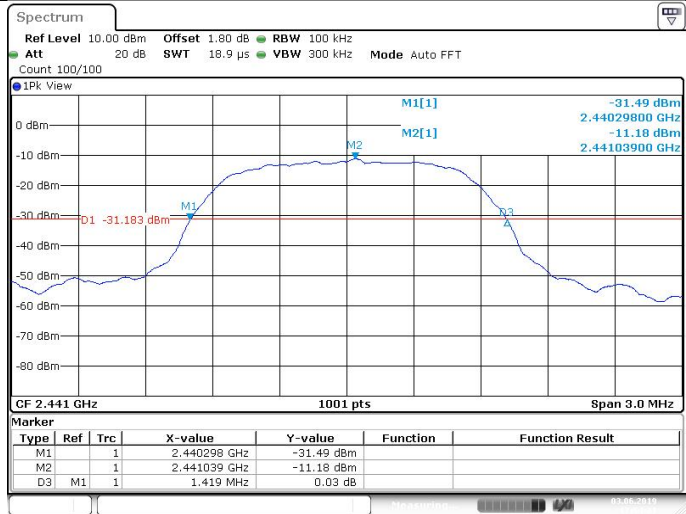


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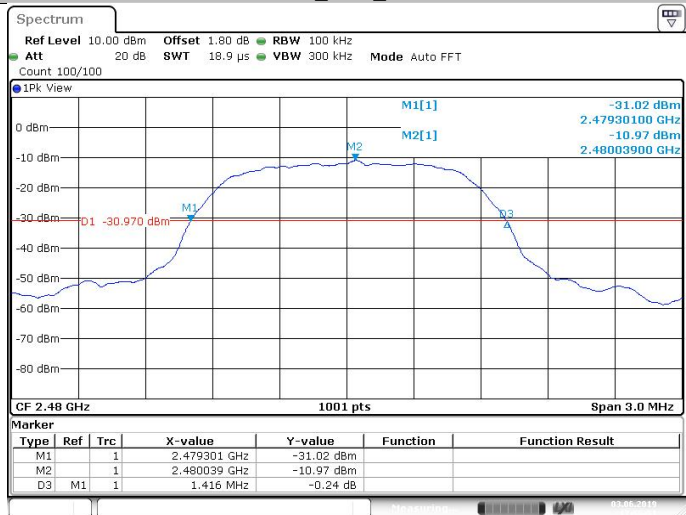
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2DH5_Ant1_2441



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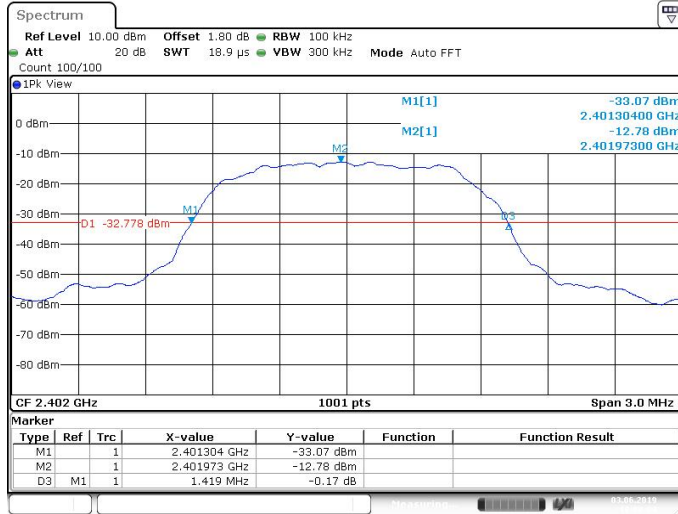
2DH5_Ant1_2480



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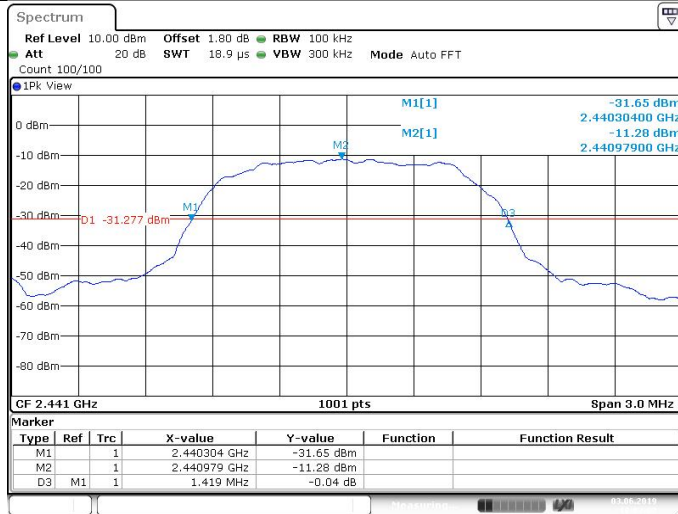


3DH5_Ant1_2402



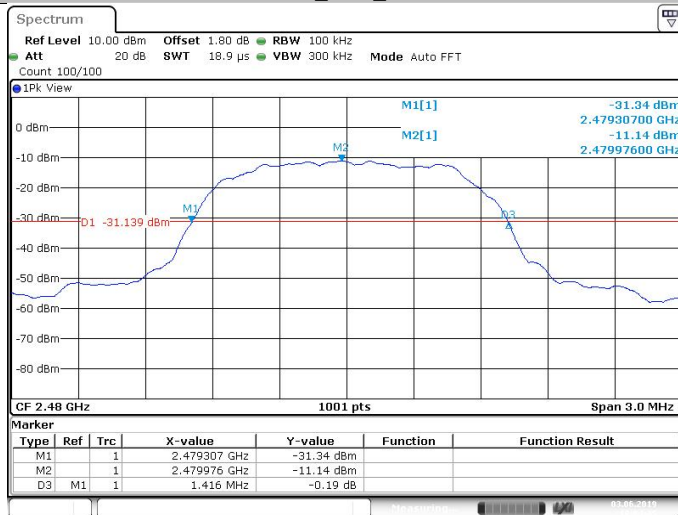
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3DH5_Ant1_2441



Date: 3 JUN 2019 18:03:03

3DH5_Ant1_2480



Date: 3 JUN 2019 18:04:45

8.3 Carrier Frequency Separation

Test Method

1. Use the following spectrum analyzer settings:
Span = wide enough to capture the peaks of two adjacent channels, RBW \geq 1% of the span, VBW \geq RBW, Sweep = auto, Detector function = peak
2. By using the Max-Hold function record the separation of two adjacent channels.
3. Measure the frequency difference of these two adjacent channels by spectrum analyzer marker function.
4. Repeat above procedures until all frequencies measured were complete.

Limit

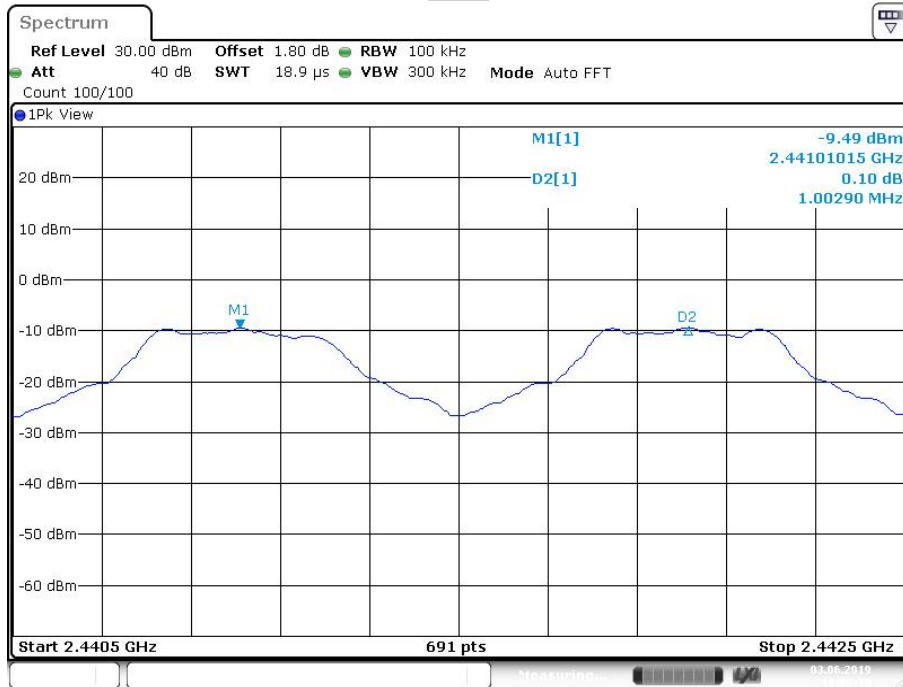
Limit
kHz

\geq 25kHz or 2/3 of the 20 dB bandwidth which is greater

Carrier Frequency Separation

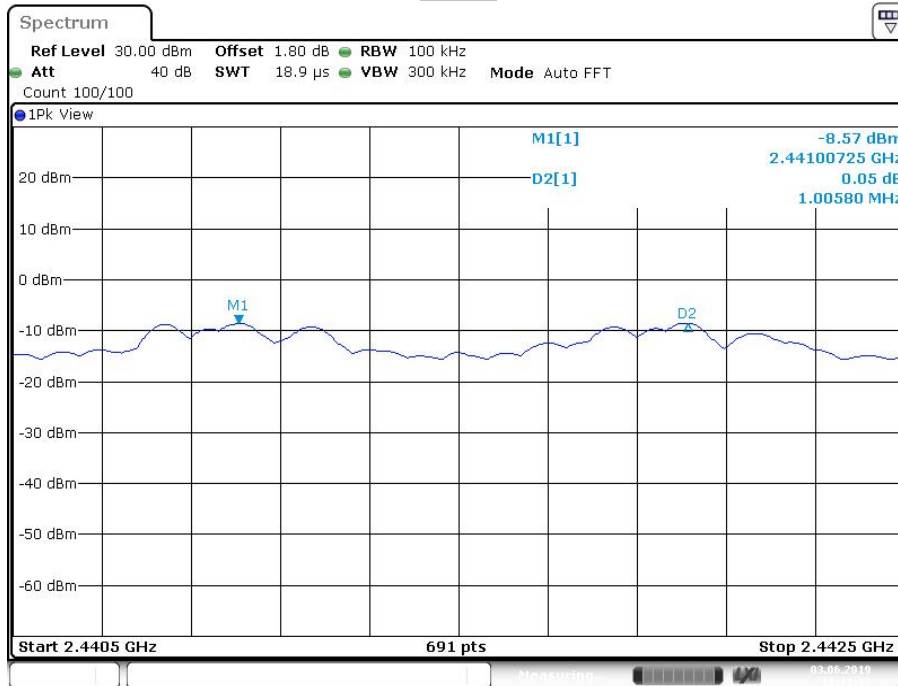
TestMode	Antenna	Channel	Result	Limit	Verdict
DH5	Ant1	Hop	1.003	≥ 0.750	PASS
2DH5	Ant1	Hop	1.006	≥ 0.946	PASS
3DH5	Ant1	Hop	1	≥ 0.946	PASS

DH5



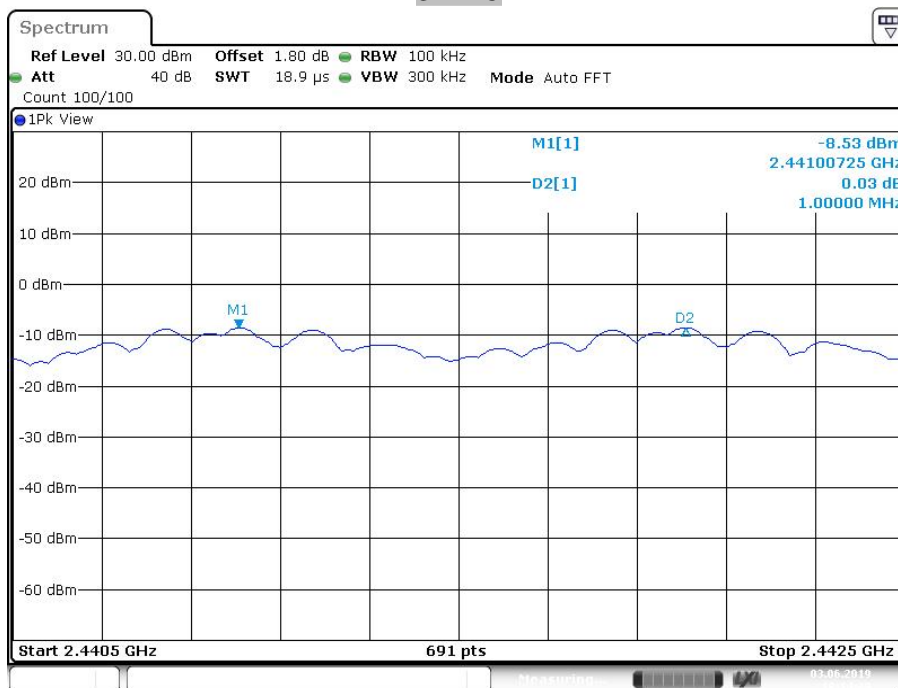


2.DH5



Date: 3 JUN 2019 18:11:13

3.DH5



Date: 3 JUN 2019 18:14:29

8.4 Number of hopping frequencies

Test Method

1. Use the following spectrum analyzer settings:
Span = wide enough to capture the peaks of two adjacent channels, $RBW \geq 1\%$ of the span, $VBW \geq RBW$, Sweep = auto, Detector function = peak
2. Set the spectrum analyzer on Max-Hold Mode, and then keep the EUT in hopping mode.
3. Record all the signals from each channel until each one has been recorded.
4. Repeat above procedures until all frequencies measured were complete.

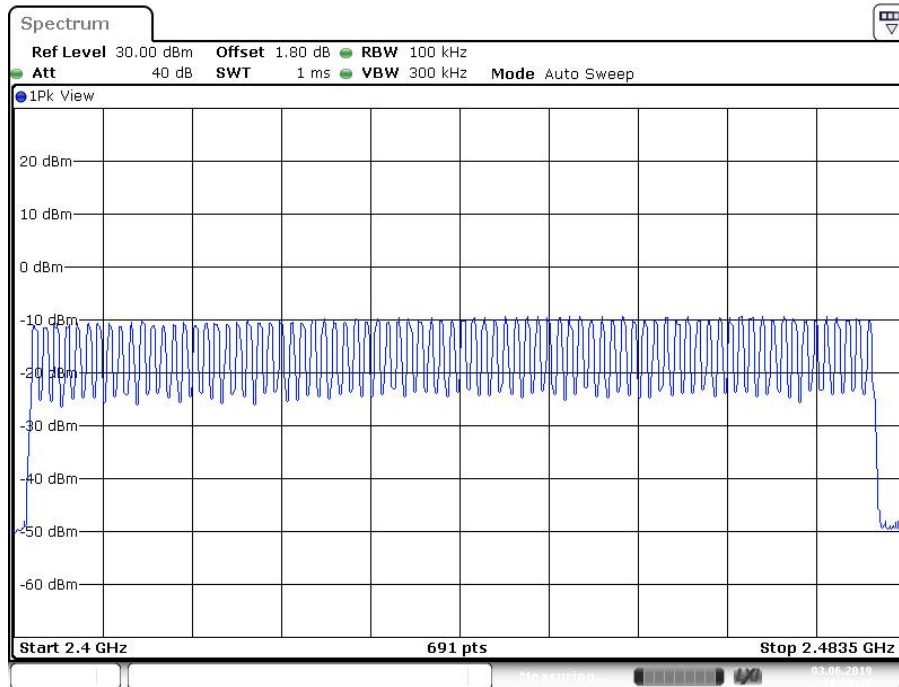
Limit

**Limit
number**
—————
 ≥ 15

Number of hopping frequencies

Test result: The measurement was performed with the typical configuration (normal hopping status), and the total hopping channels is constant for the all modulation mode according with the Bluetooth Core Specification. Here GFSK modulation mode was used to show compliance.

Number of hopping frequencies	Result
79	Pass



8.5 Dwell Time

Test Method

1. Connect EUT antenna terminal to the spectrum analyzer with a low loss cable.
Equipment mode: Spectrum analyzer
2. RBW: 1MHz; VBW: 1MHz; SPAN: Zero Span
3. Adjust the center frequency of spectrum analyzer on any frequency be measured.
4. Measure the Dwell Time by spectrum analyzer Marker function.
5. Repeat above procedures until all frequencies measured were complete.

Limit

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

Dwell Time

Dwell time

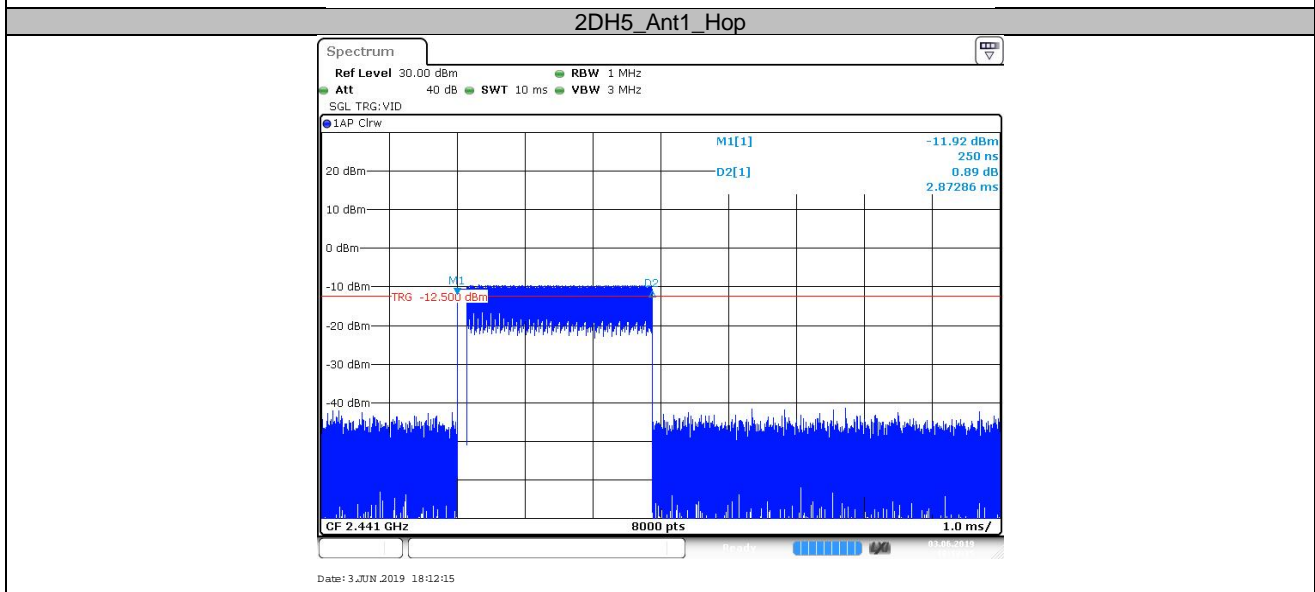
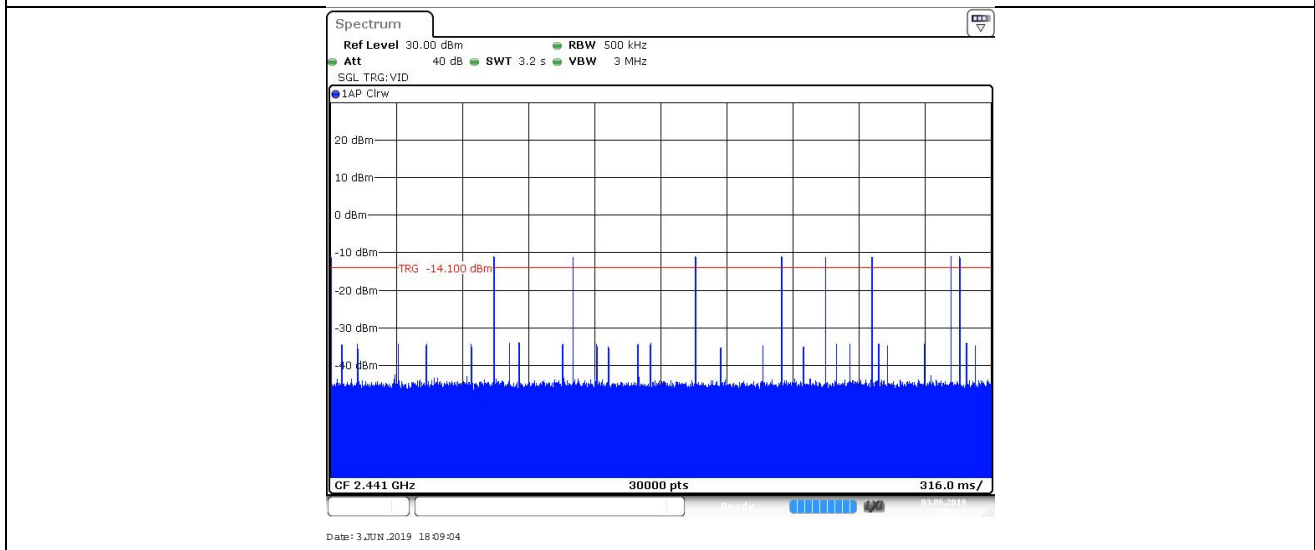
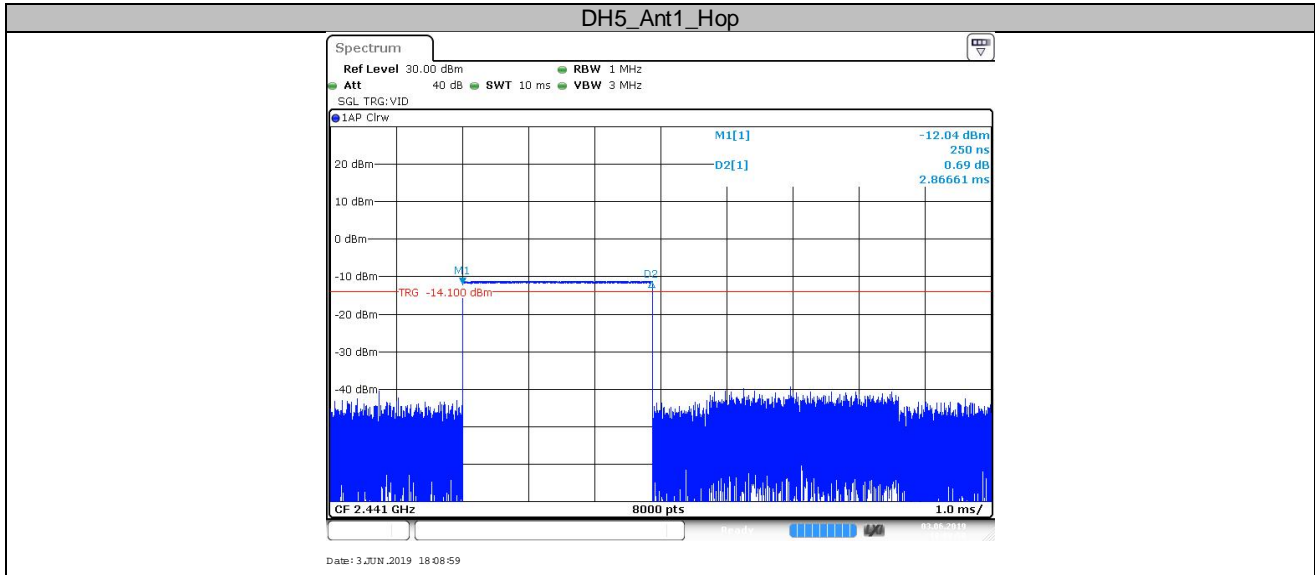
The maximum dwell time shall be 0.4 s.

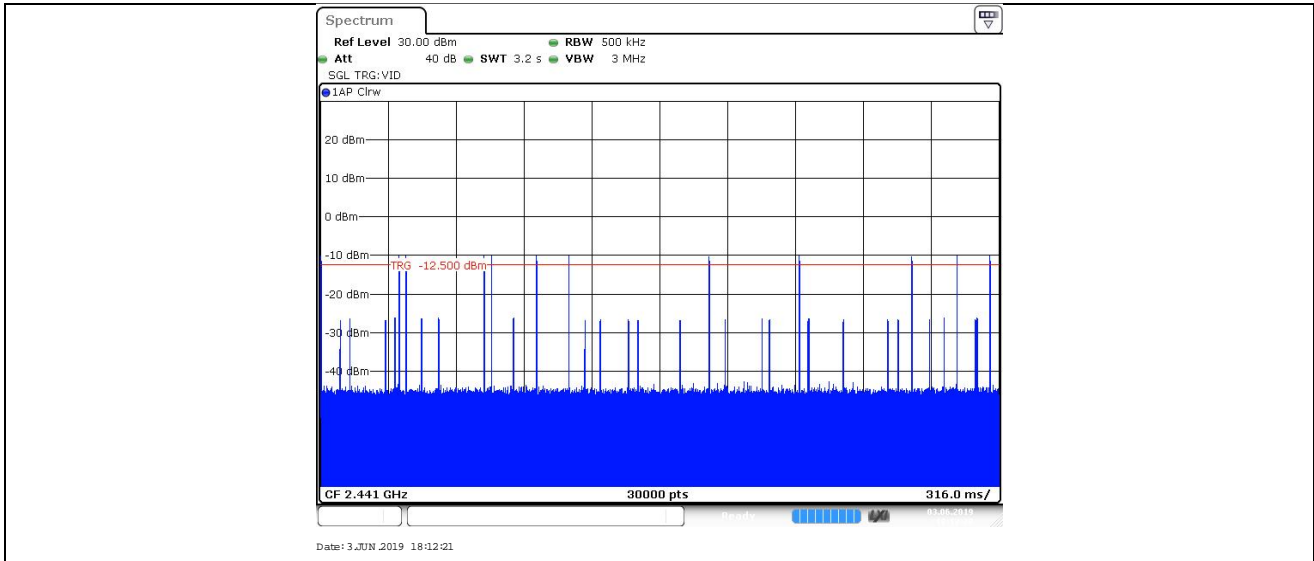
The Dwell Time = Burst Width * Total Hops. The detailed calculations are showed as follows:

The duration for dwell time calculation: $0.4 \text{ [s]} * \text{hopping number} = 0.4 \text{ [s]} * 79 \text{ [ch]} = 31.6 \text{ [s*ch]}$;

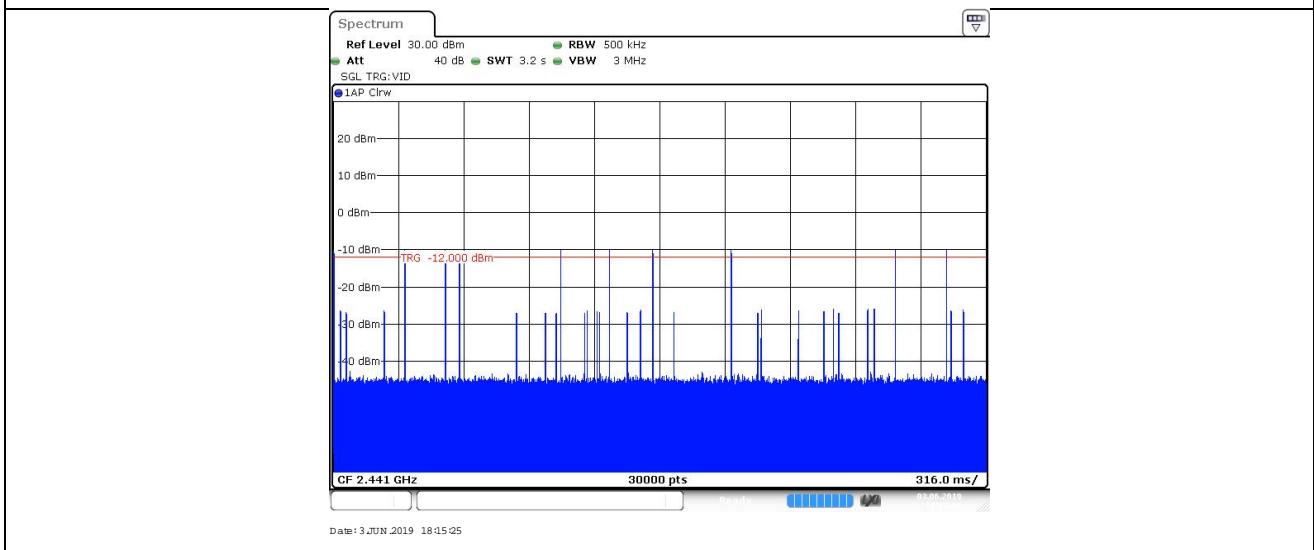
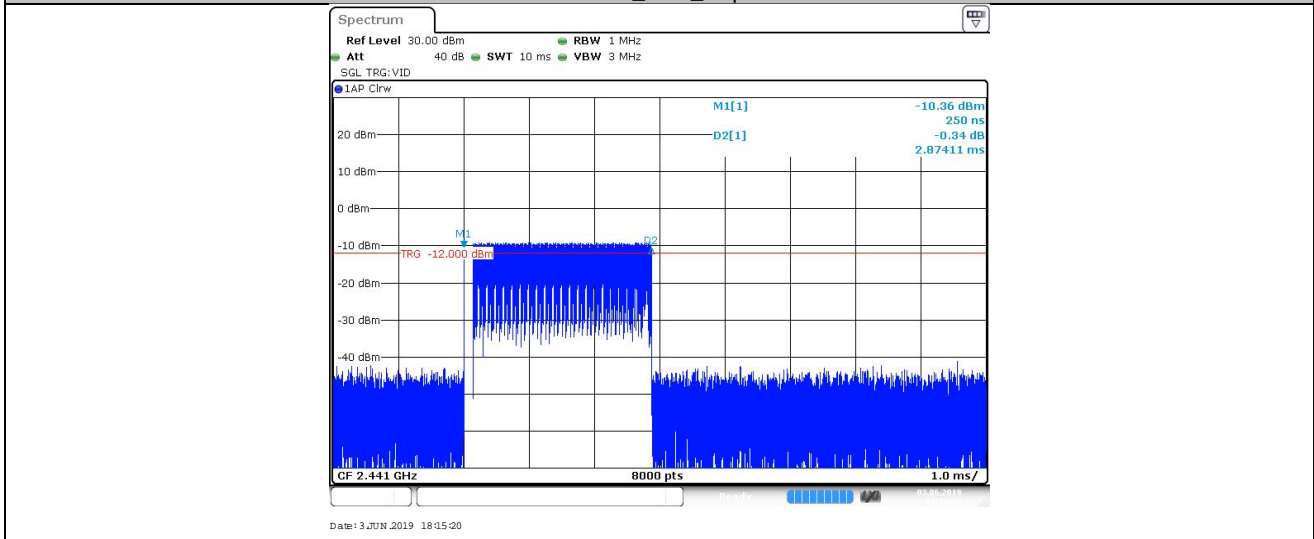
Test Result

Test Mode	Antenna	Channel	Burst Width	Total Hops	Result	Limit	Verdict
DH5	Ant1	Hop	2.87	90	0.258	≤ 0.4	PASS
2DH5	Ant1	Hop	2.87	120	0.345	≤ 0.4	PASS
3DH5	Ant1	Hop	2.87	100	0.287	≤ 0.4	PASS





3DH5_Ant1_Hop





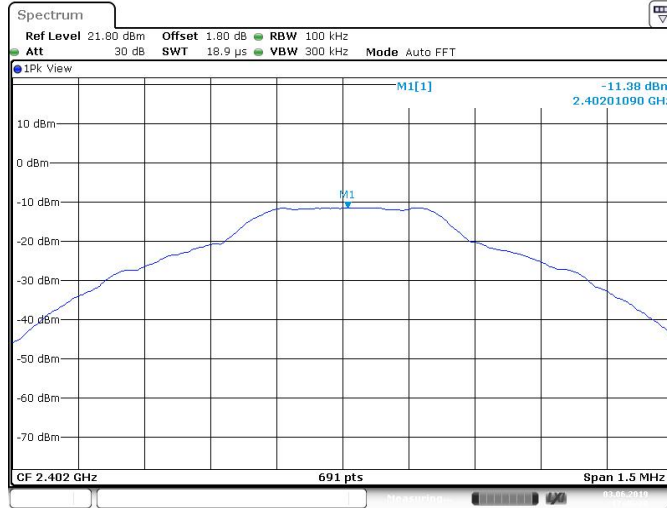
8.6 Conducted Spurious Emission

Test result:

TestMode	Antenna	Channel	FreqRange	RefLevel	Result	Limit	Verdict
DH5	Ant1	2402	Reference	-11.38	-11.38	---	PASS
		2402	30~1000	30~1000	-66.22	<=-31.38	PASS
		2402	1000~26500	1000~26500	-51.91	<=-31.38	PASS
		2441	Reference	-10.06	-10.06	---	PASS
		2441	30~1000	30~1000	-66.32	<=-30.06	PASS
		2441	1000~26500	1000~26500	-51.95	<=-30.06	PASS
		2480	Reference	-10.08	-10.08	---	PASS
		2480	30~1000	30~1000	-63.77	<=-30.08	PASS
		2480	1000~26500	1000~26500	-51.93	<=-30.08	PASS
2DH5	Ant1	2402	Reference	-12.63	-12.63	---	PASS
		2402	30~1000	30~1000	-65.27	<=-32.63	PASS
		2402	1000~26500	1000~26500	-52.33	<=-32.63	PASS
		2441	Reference	-11.26	-11.26	---	PASS
		2441	30~1000	30~1000	-67.08	<=-31.26	PASS
		2441	1000~26500	1000~26500	-52.48	<=-31.26	PASS
		2480	Reference	-11.07	-11.07	---	PASS
		2480	30~1000	30~1000	-67.29	<=-31.07	PASS
		2480	1000~26500	1000~26500	-52.17	<=-31.07	PASS
3DH5	Ant1	2402	Reference	-12.74	-12.74	---	PASS
		2402	30~1000	30~1000	-67.08	<=-32.74	PASS
		2402	1000~26500	1000~26500	-52.33	<=-32.74	PASS
		2441	Reference	-11.34	-11.34	---	PASS
		2441	30~1000	30~1000	-65.52	<=-31.34	PASS
		2441	1000~26500	1000~26500	-51.95	<=-31.34	PASS
		2480	Reference	-11.21	-11.21	---	PASS
		2480	30~1000	30~1000	-65.53	<=-31.21	PASS
		2480	1000~26500	1000~26500	-52.54	<=-31.21	PASS

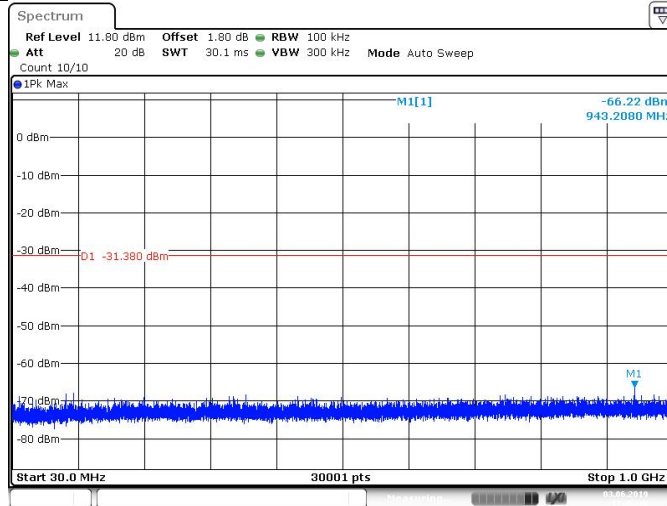


DH5_Ant1_2402_0~Reference



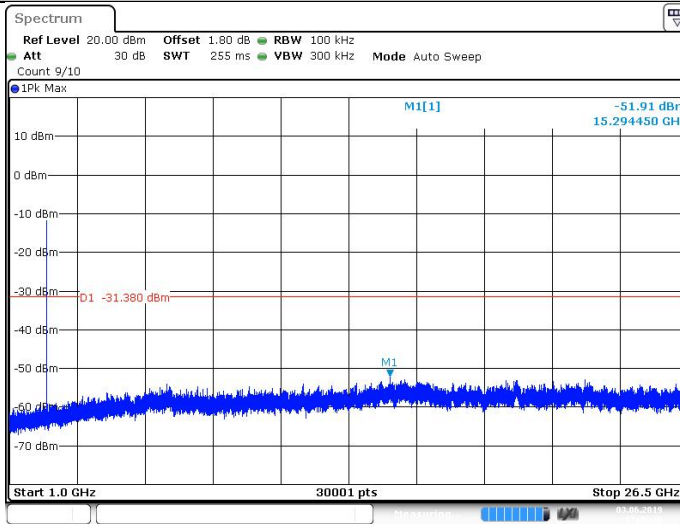
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DH5_Ant1_2402_30~1000



Date: 3 JUN 2019 17:45:38

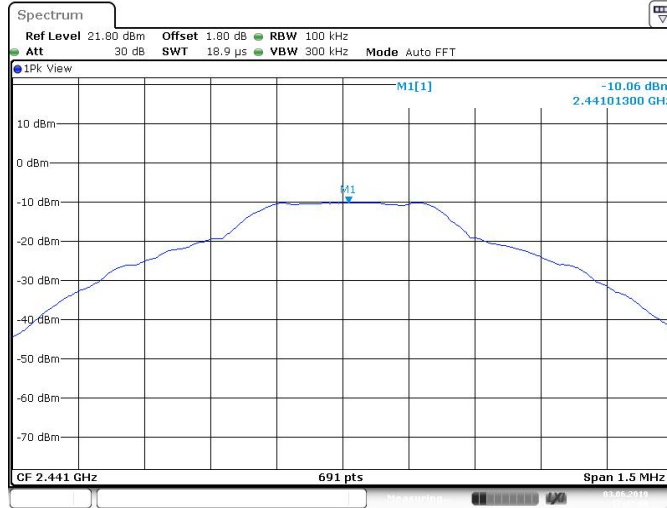
DH5_Ant1_2402_1000~26500



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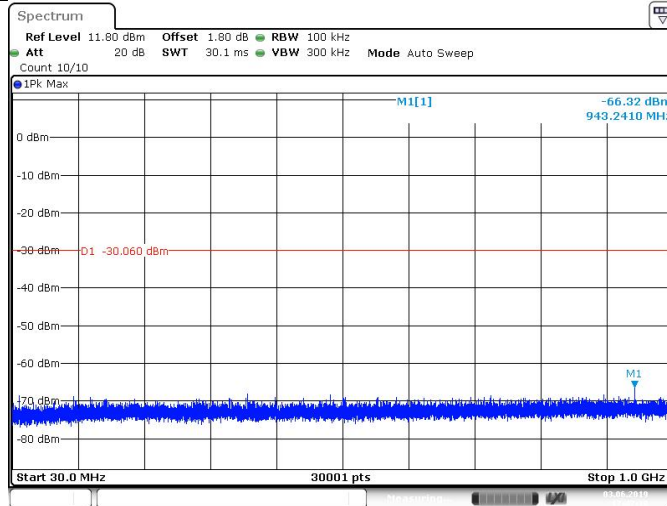


DH5_Ant1_2441_0~Reference



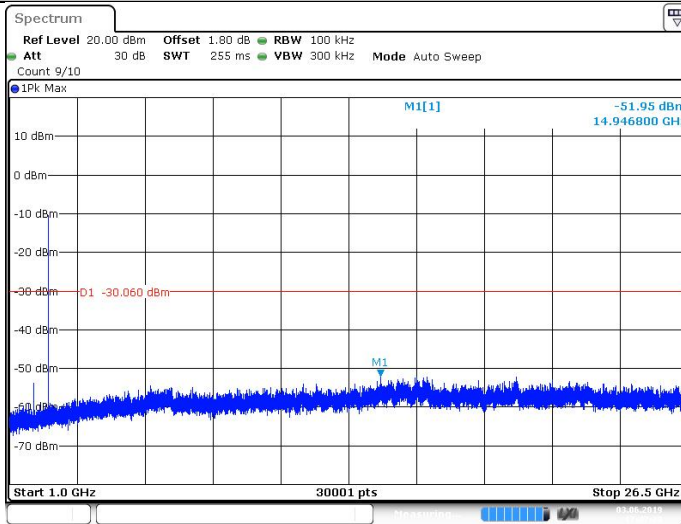
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DH5_Ant1_2441_30~1000



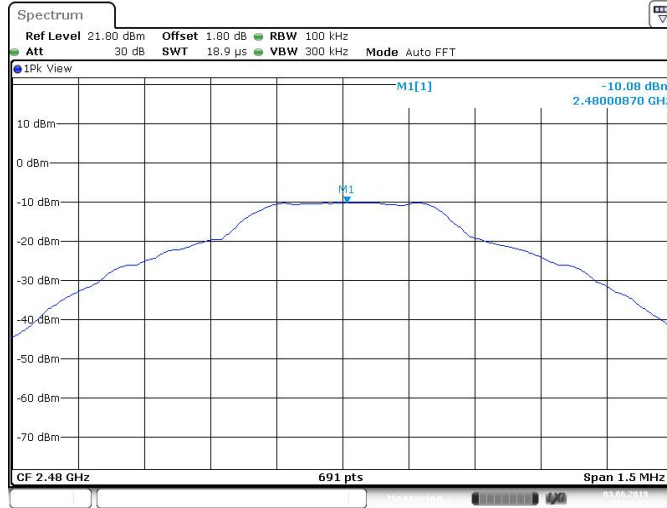
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DH5_Ant1_2441_1000~26500



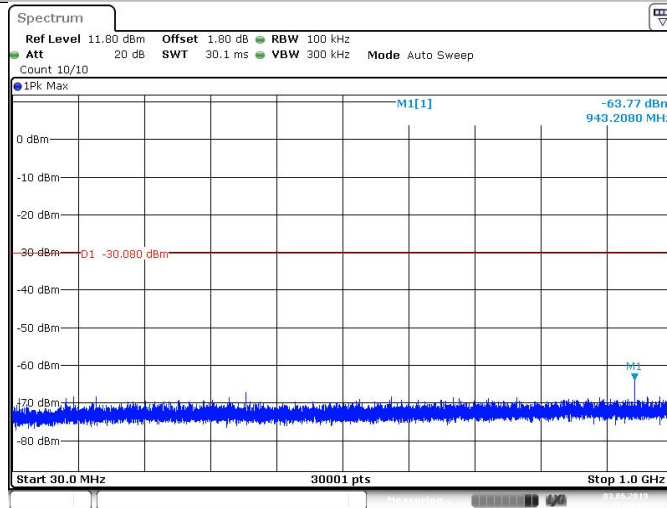
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DH5_Ant1_2480_0~Reference



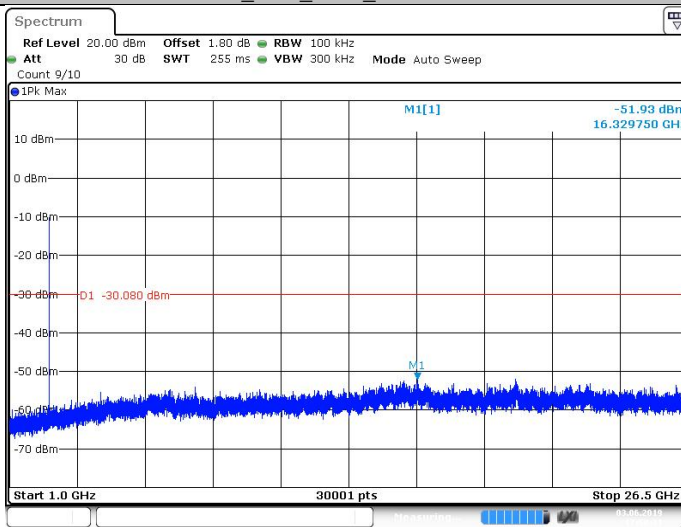
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DH5_Ant1_2480_30~1000



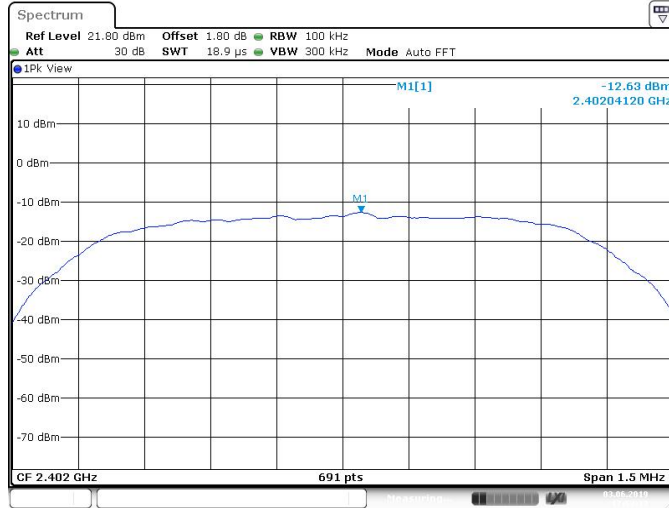
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DH5_Ant1_2480_1000~26500



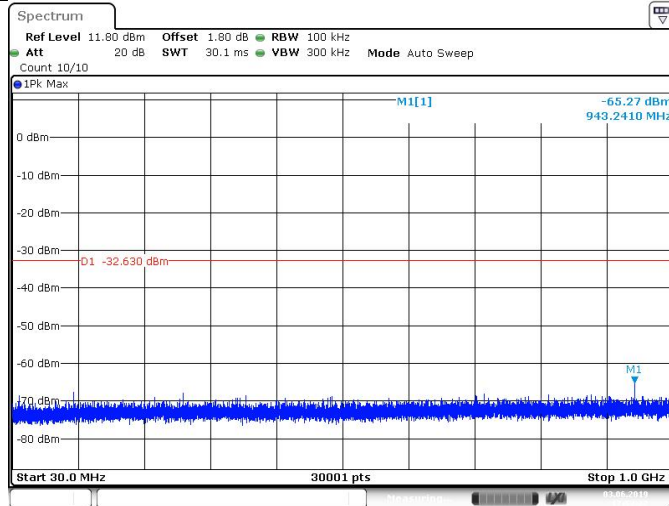
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2DH5_Ant1_2402_0-Reference



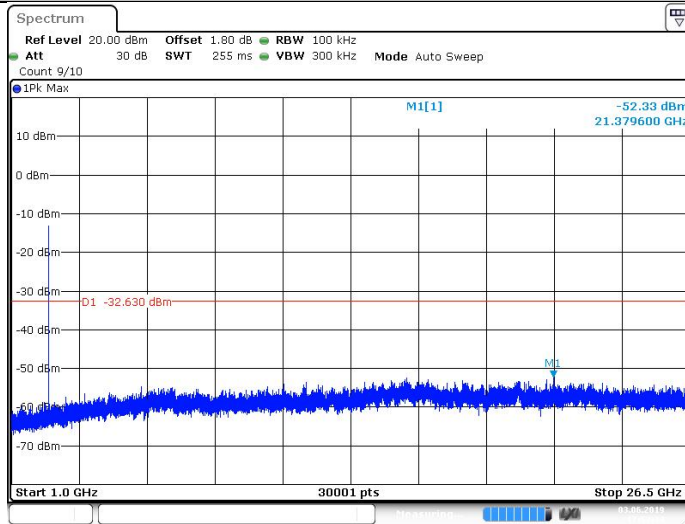
Date: 3 JUN 2019 17:53:13

2DH5_Ant1_2402_30-1000

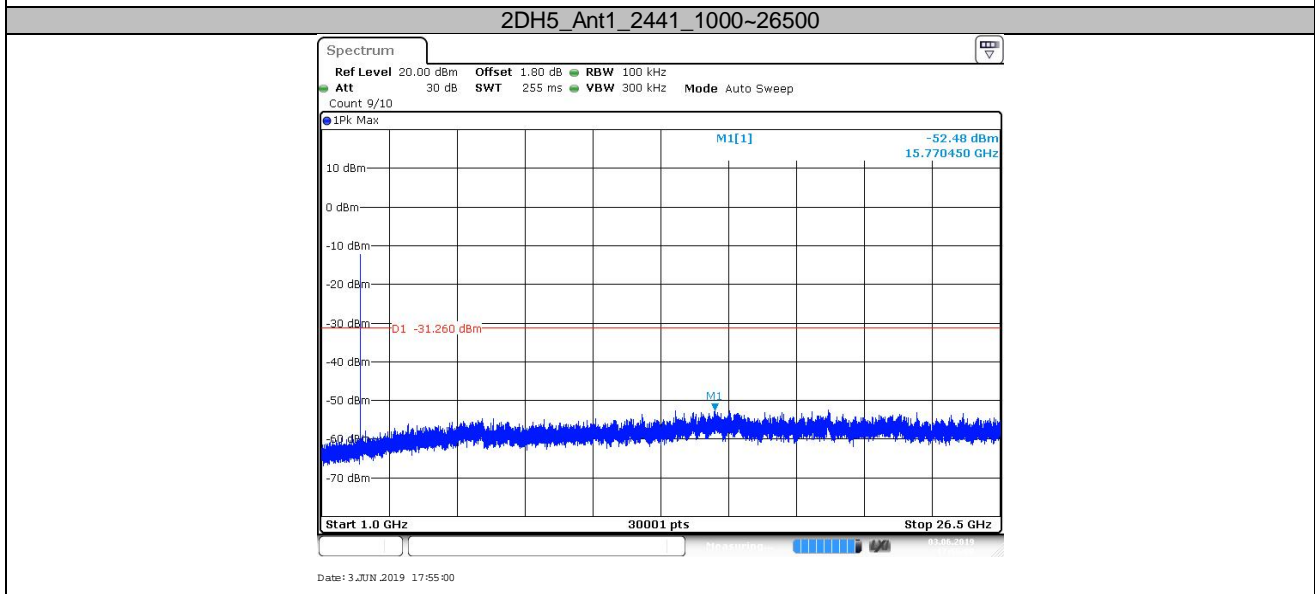
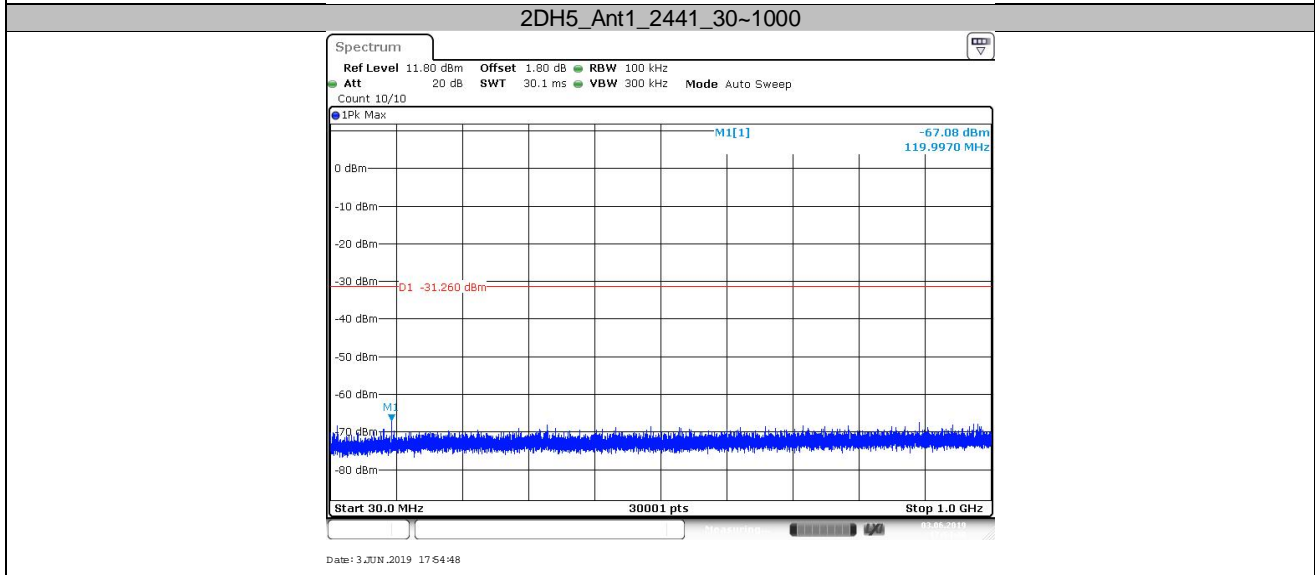
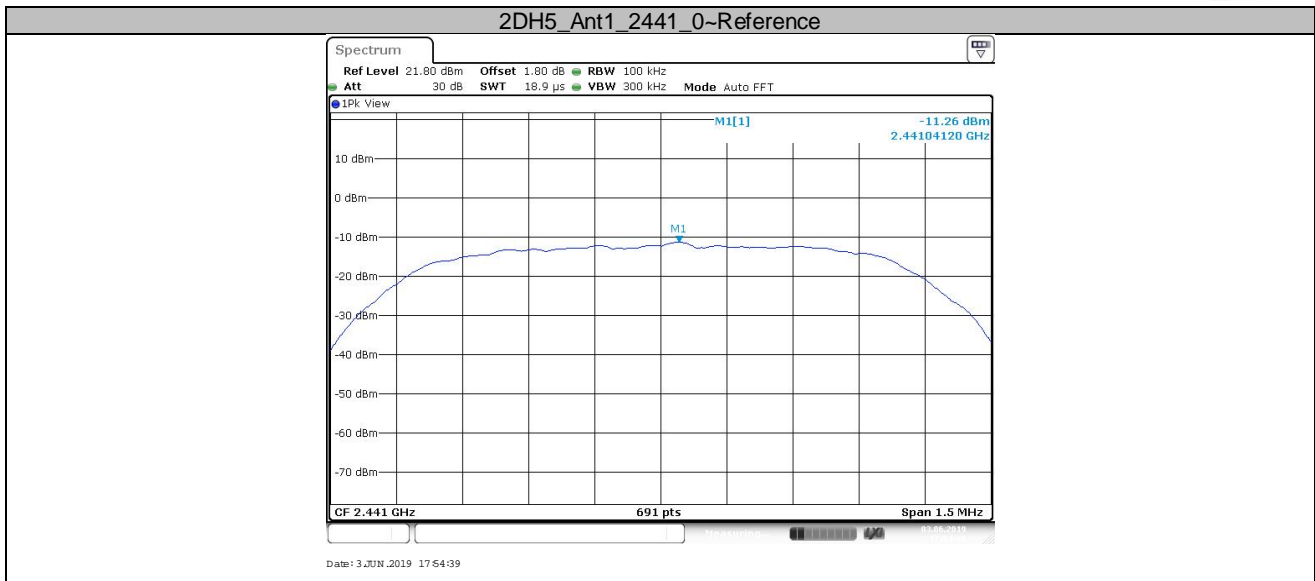


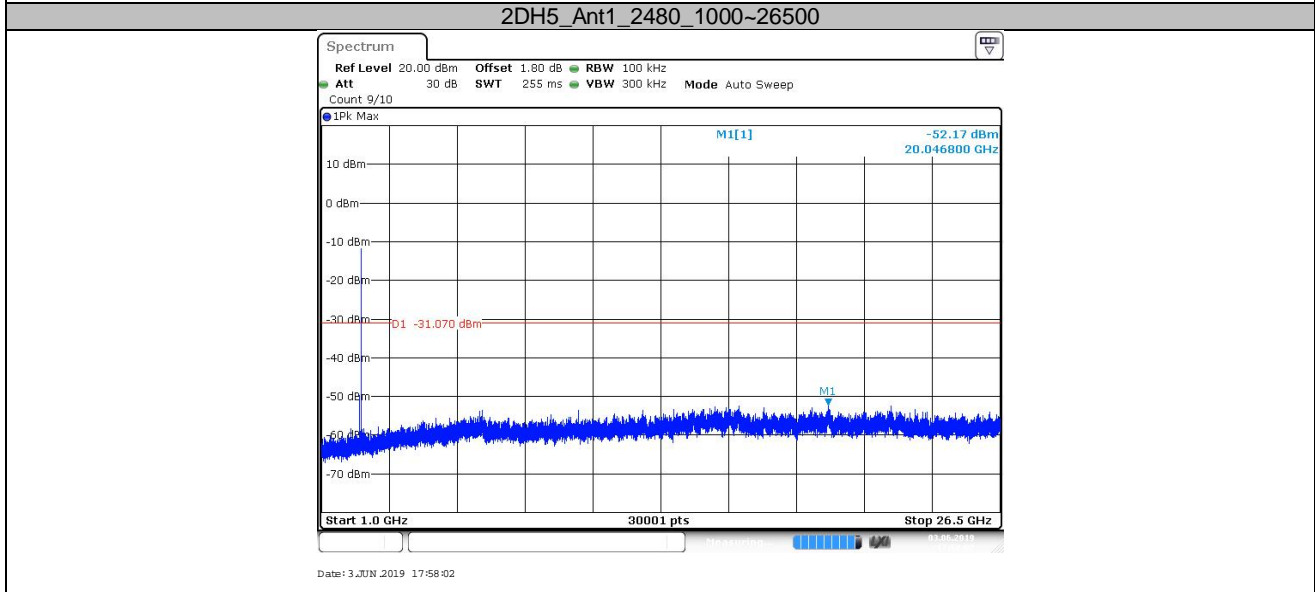
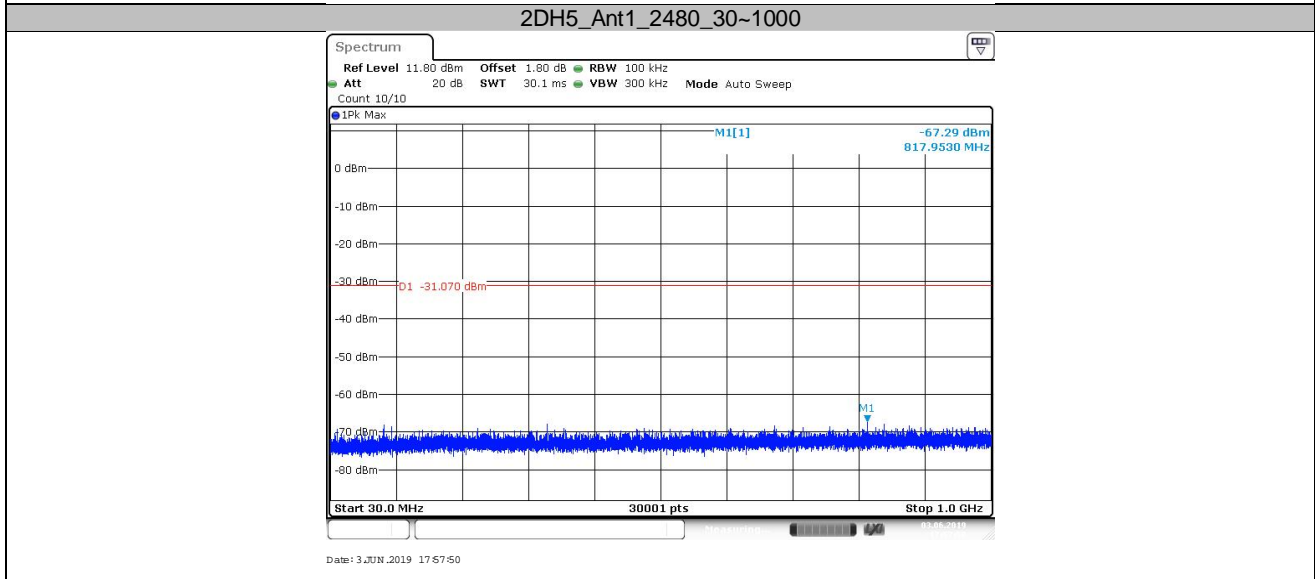
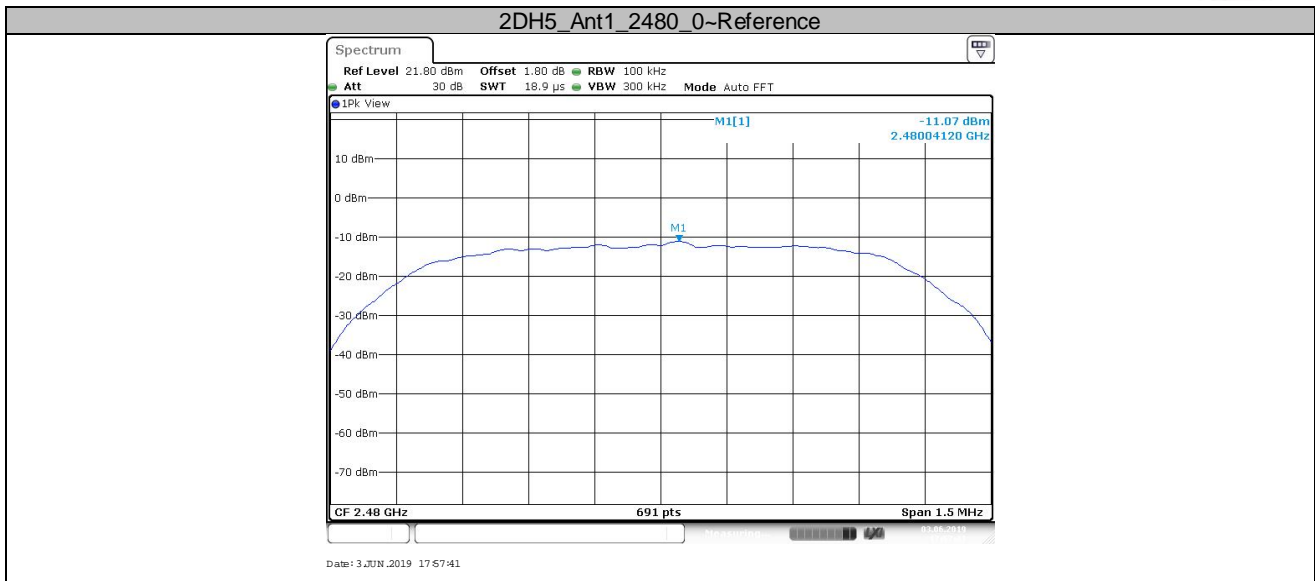
Date: 3 JUN 2019 17:53:23

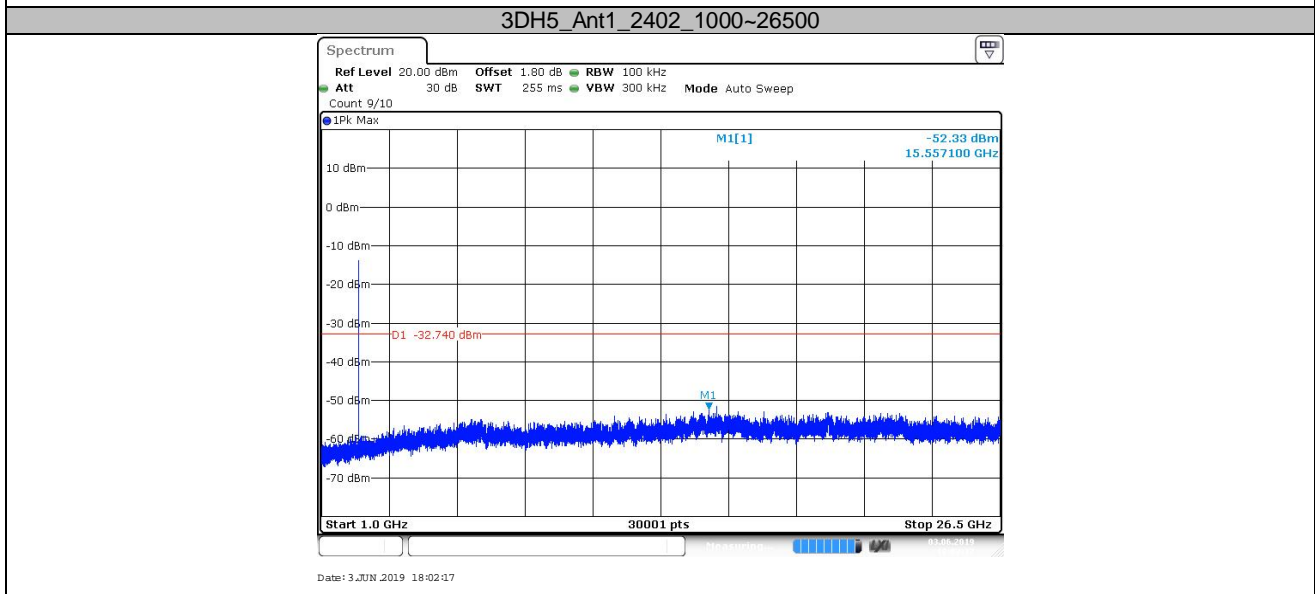
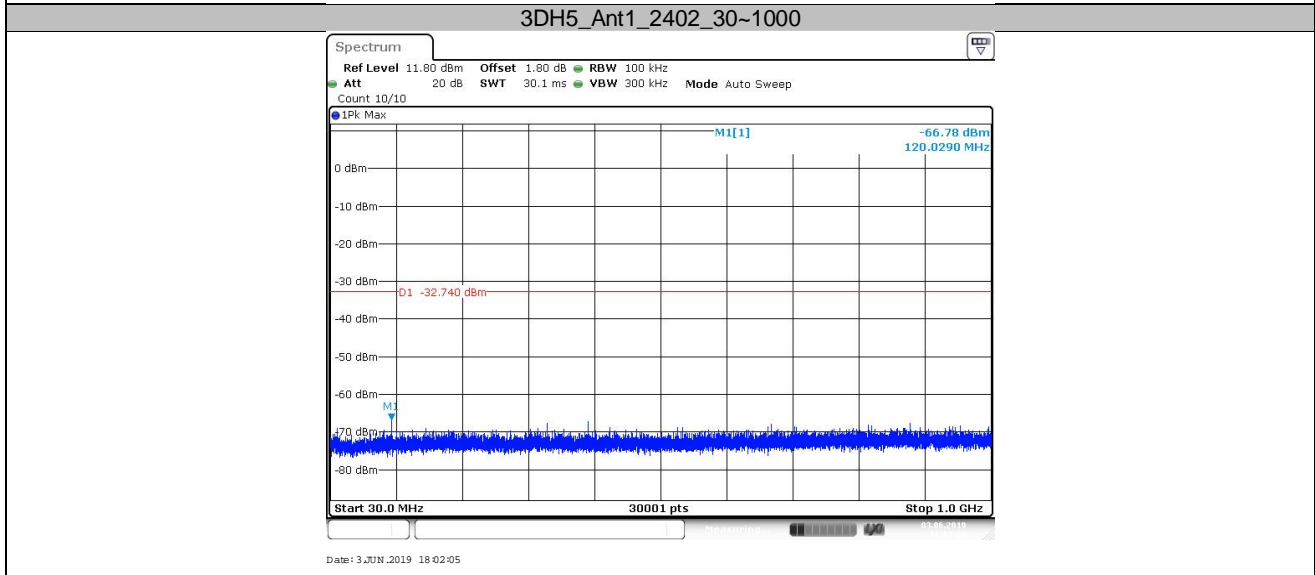
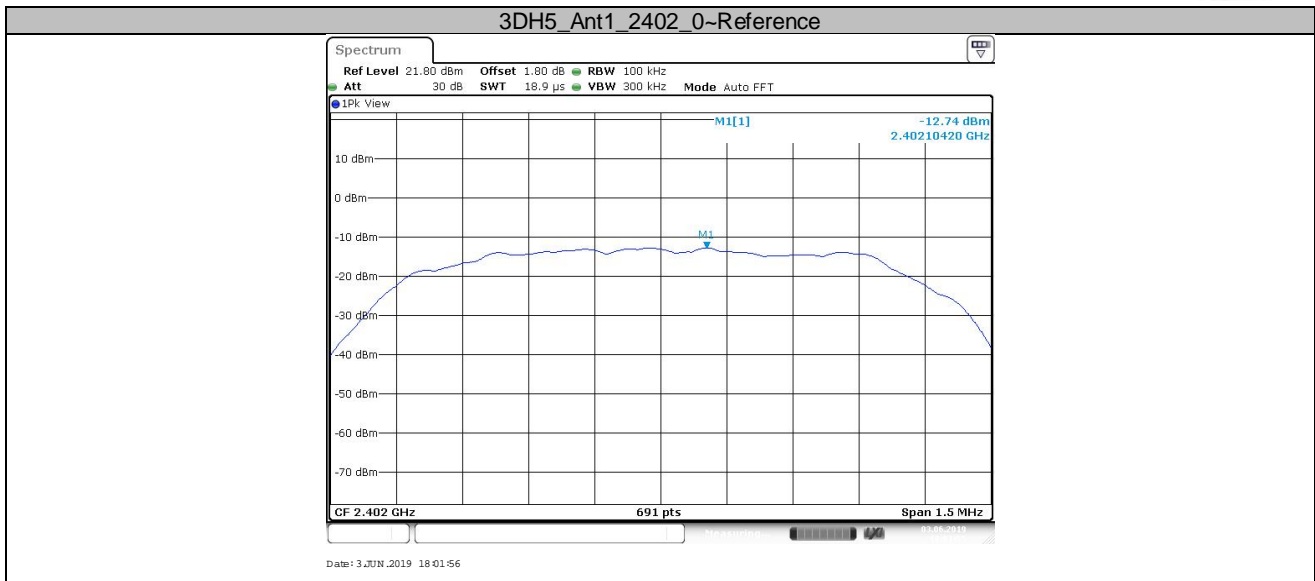
2DH5_Ant1_2402_1000~26500

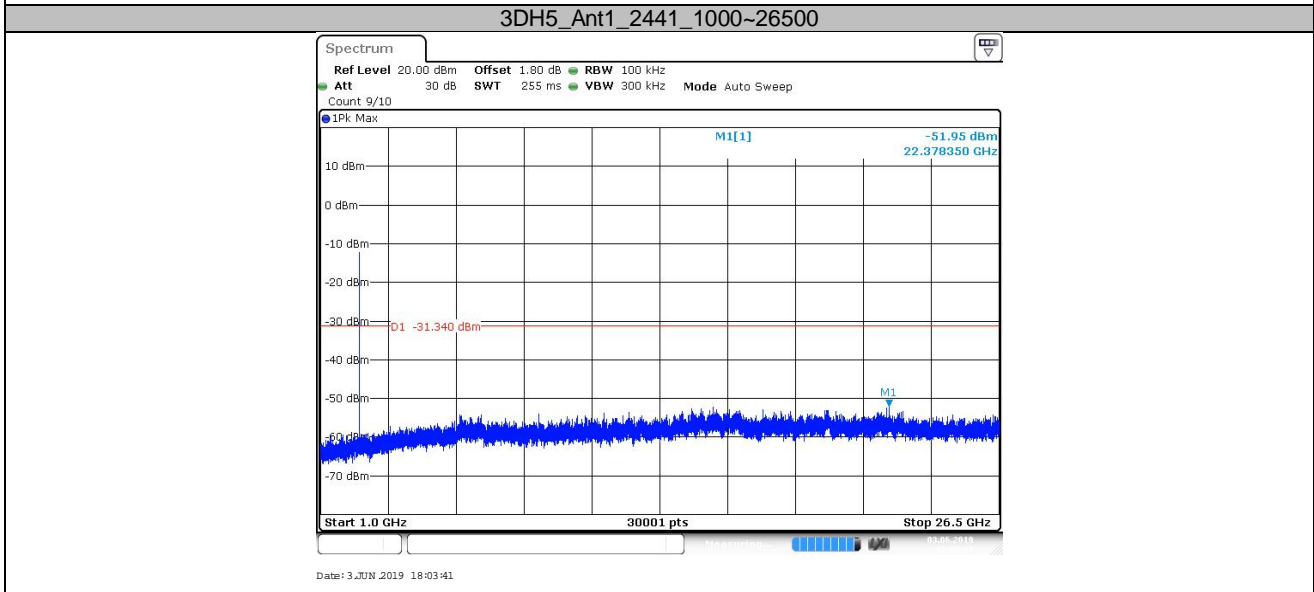
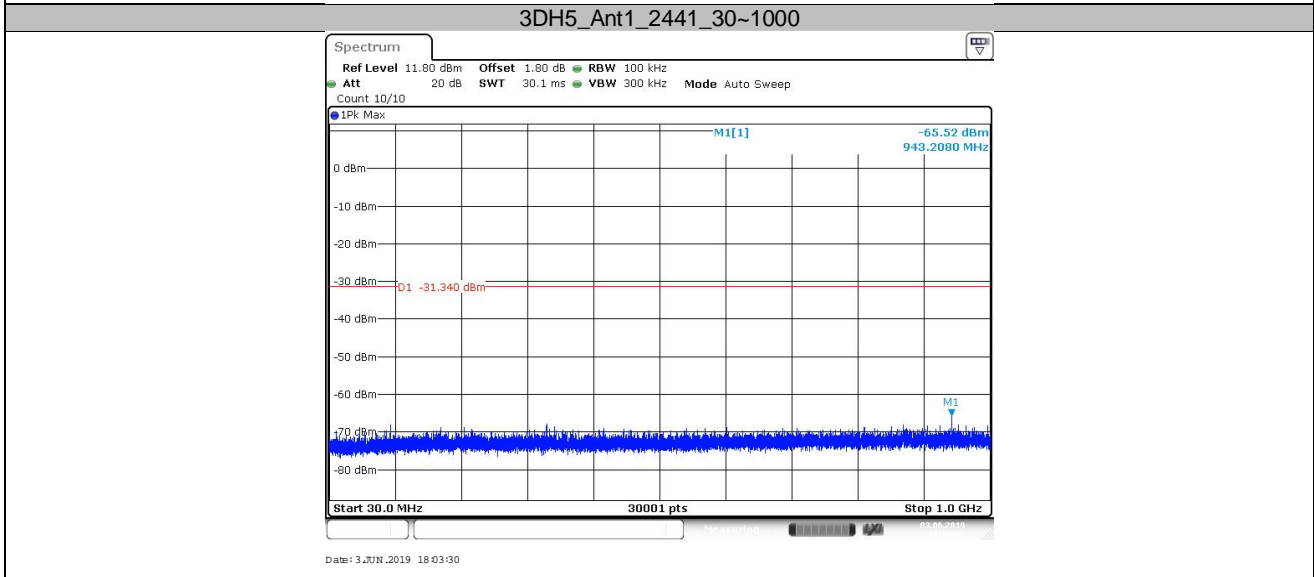
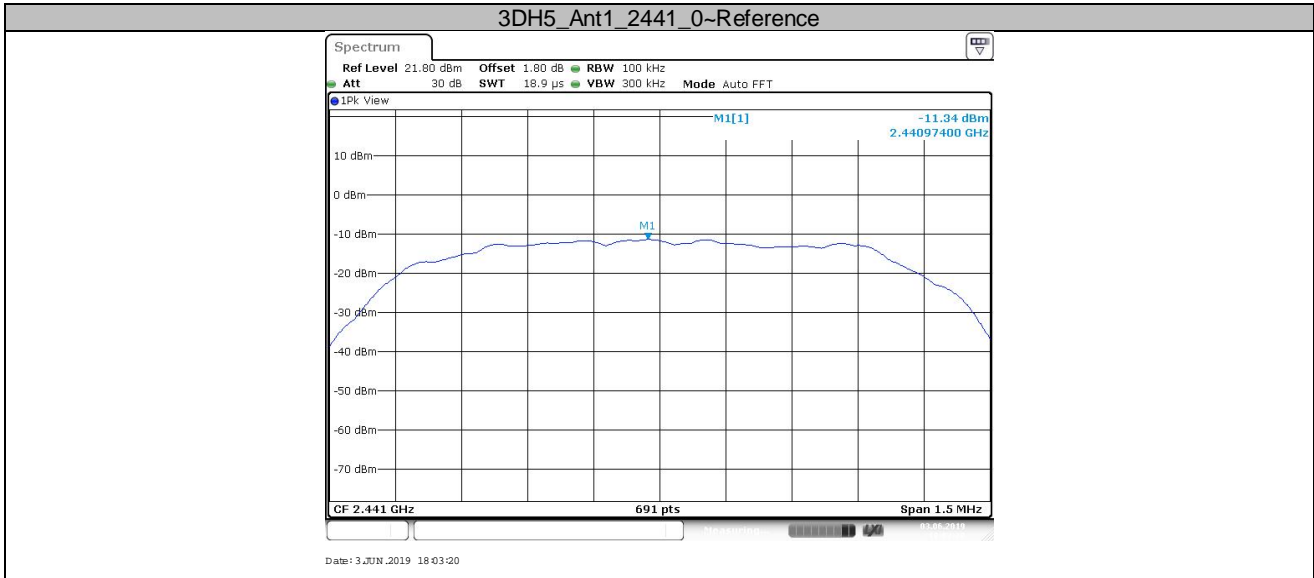


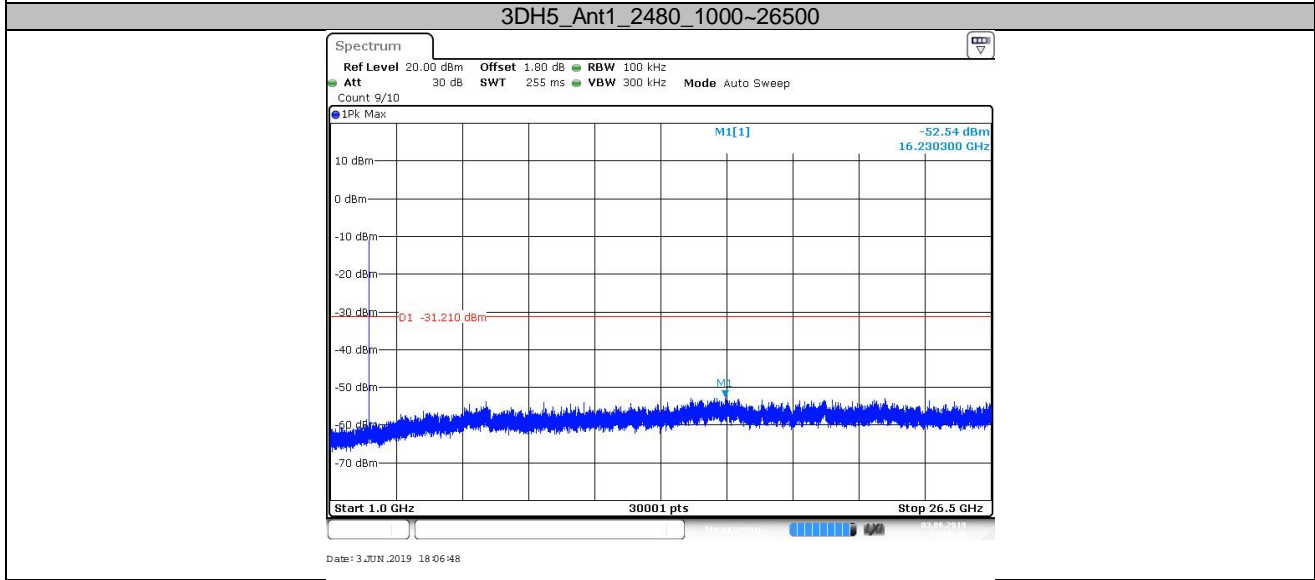
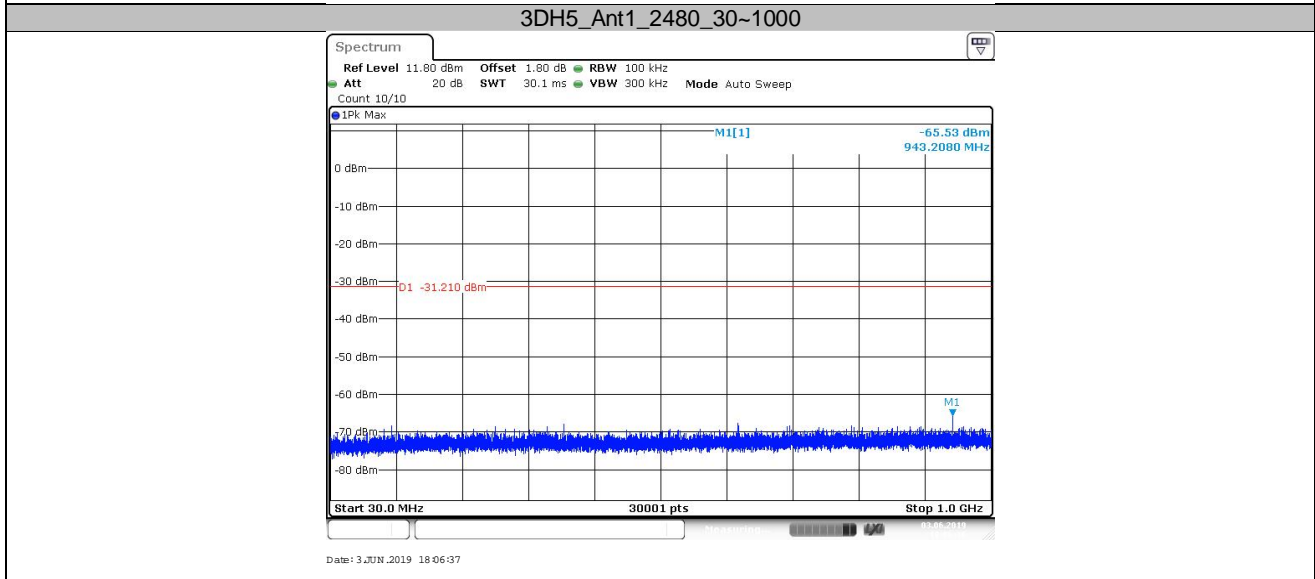
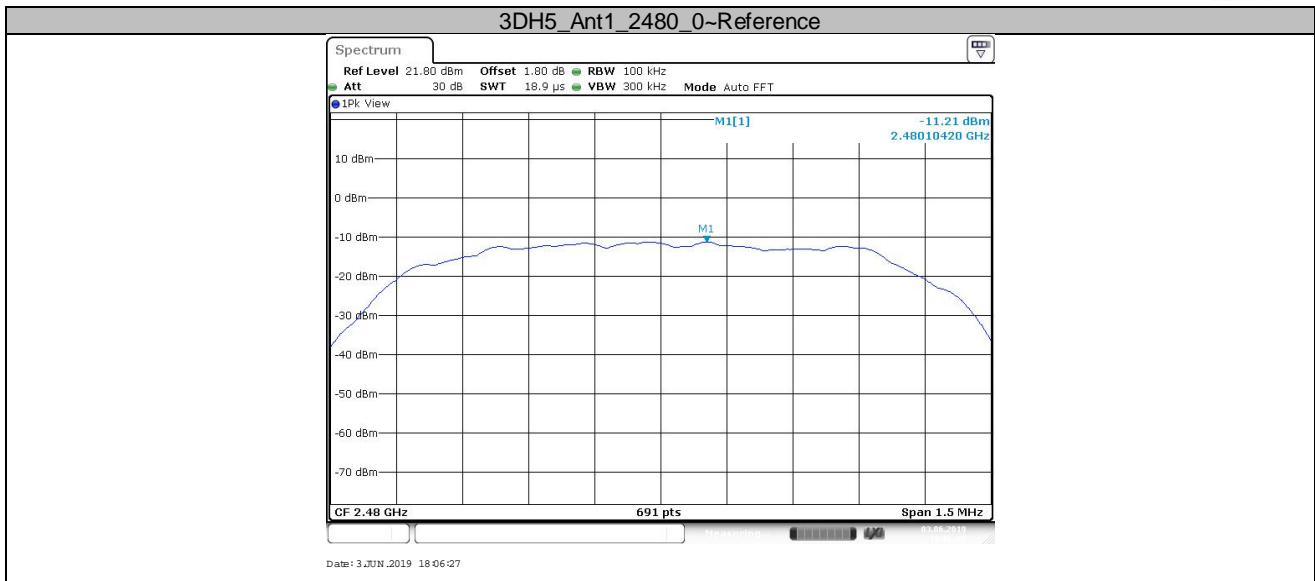
Date: 3 JUN 2019 17:53:35











8.7 Band edge testing

Test Method

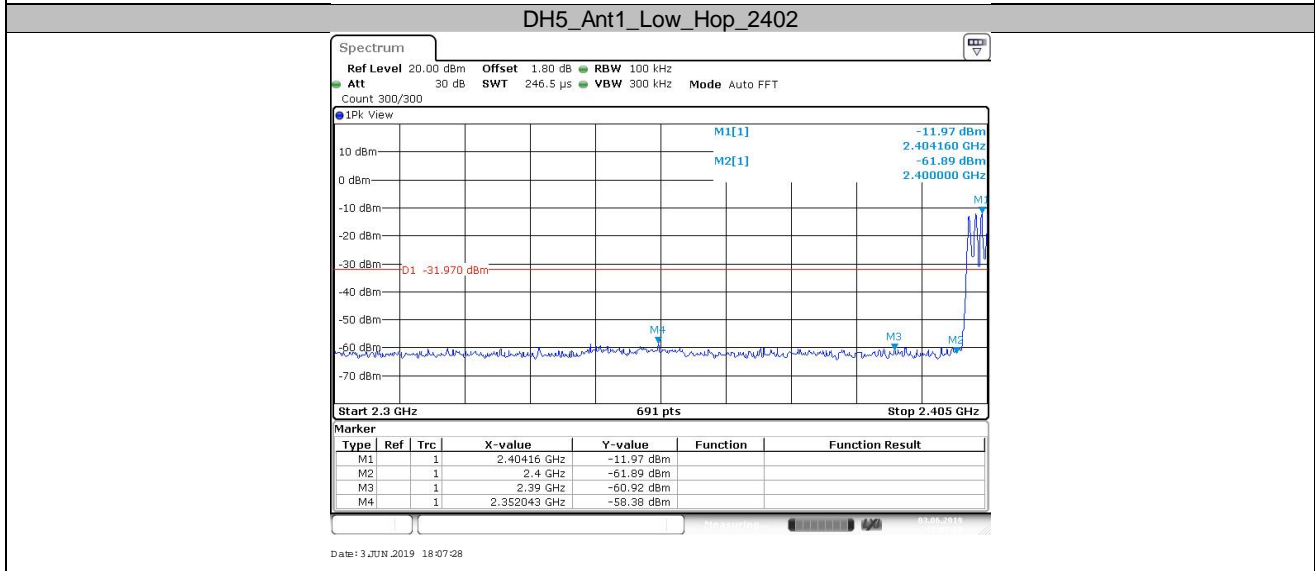
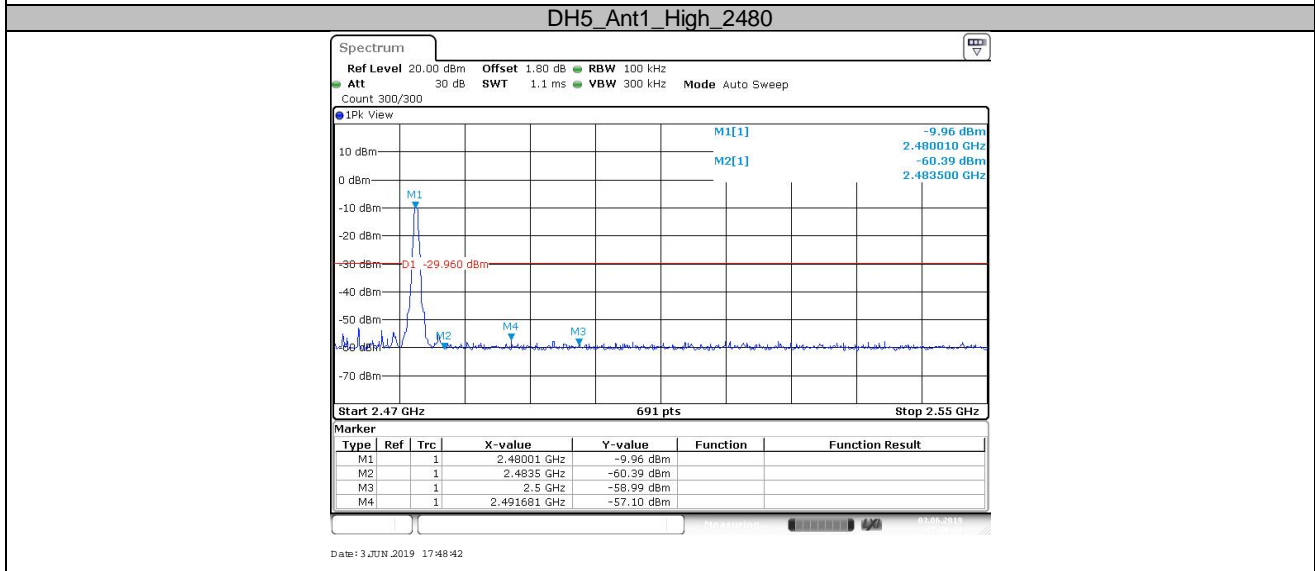
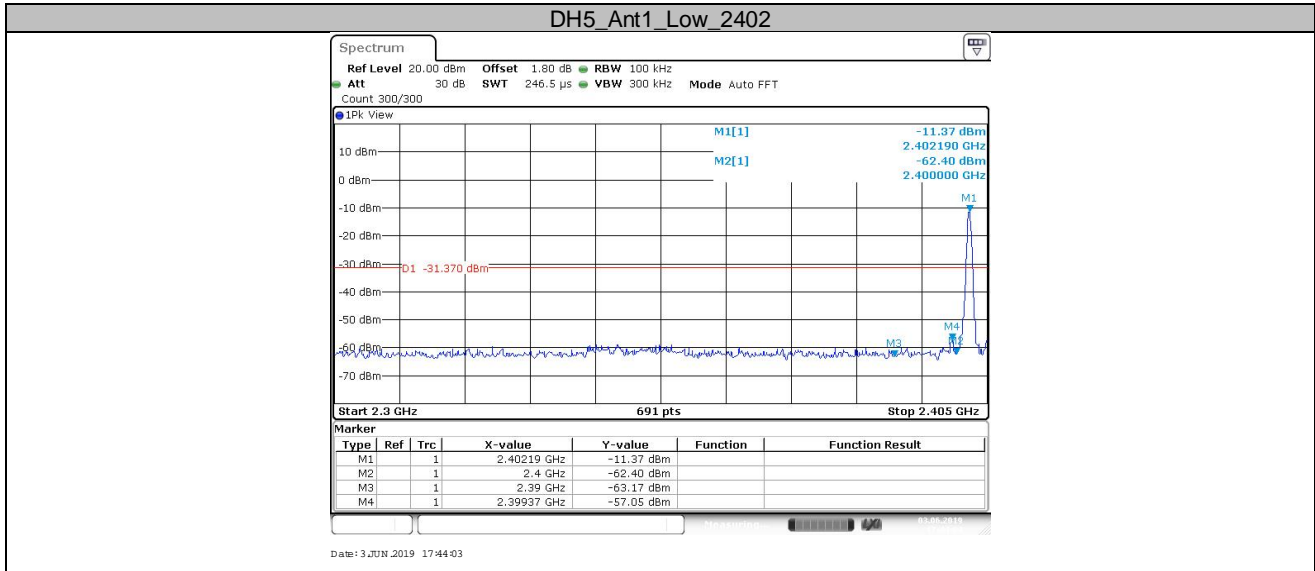
- 1 Use the following spectrum analyzer settings:
Span = wide enough to capture the peak level of the in-band emission and all spurious
RBW = 100 kHz, VBW \geq RBW, Sweep = auto, Detector function = peak, Trace = max hold
- 2 Allow the trace to stabilize, use the peak and delta measurement to record the result.
- 3 The level displayed must comply with the limit specified in this Section. .
- 4 Repeat the test at the hopping off and hopping on mode, submit all the plots.

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced 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 that the transmitter demonstrates compliance with the peak conducted power limits.

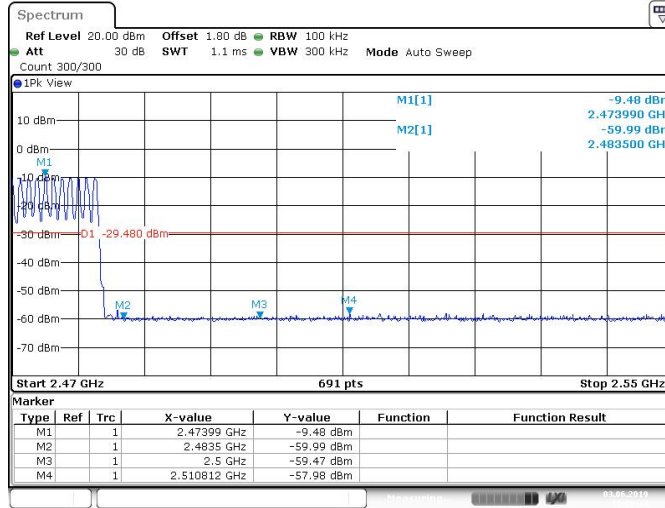
Test result:

Test Mode	Antenna	ChName	Channel	RefLevel	Result	Limit	Verdict
DH5	Ant1	Low	2402	-11.37	-57.05	≤ -31.37	PASS
		High	2480	-9.96	-57.1	≤ -29.96	PASS
		Low	Hop_2402	-11.97	-58.38	-31.97	PASS
		High	Hop_2480	-9.48	-57.98	-29.48	PASS
2DH5	Ant1	Low	2402	-12.66	-57.52	≤ -32.66	PASS
		High	2480	-11.00	-57.36	≤ -31	PASS
		Low	Hop_2402	-14.63	-58.64	-34.63	PASS
		High	Hop_2480	-8.65	-57.31	-28.65	PASS
3DH5	Ant1	Low	2402	-12.76	-58.29	≤ -32.76	PASS
		High	2480	-11.06	-57.61	≤ -31.06	PASS
		Low	Hop_2402	-13.24	-58.78	-33.24	PASS
		High	Hop_2480	-8.69	-57.5	-28.69	PASS



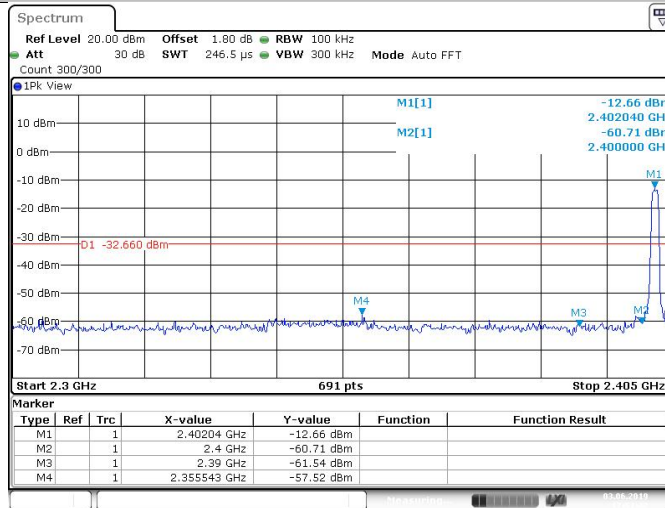


DH5_Ant1_High_Hop_2480



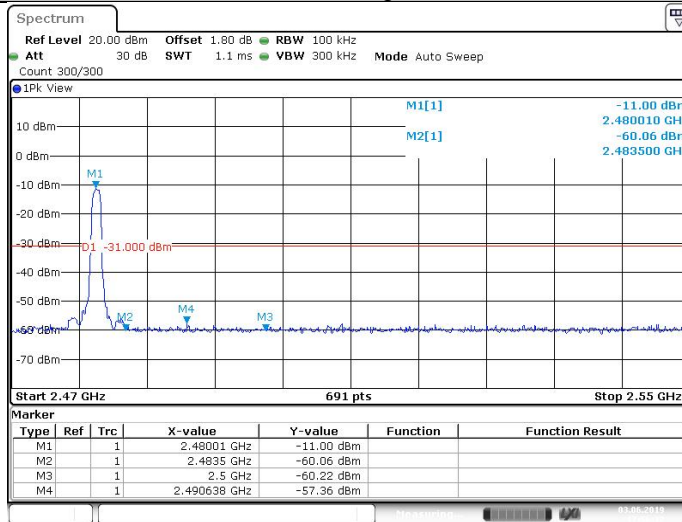
Date: 3 JUN 2019 18:09:24

2DH5_Ant1_Low_2402



Date: 3 JUN 2019 17:51:42

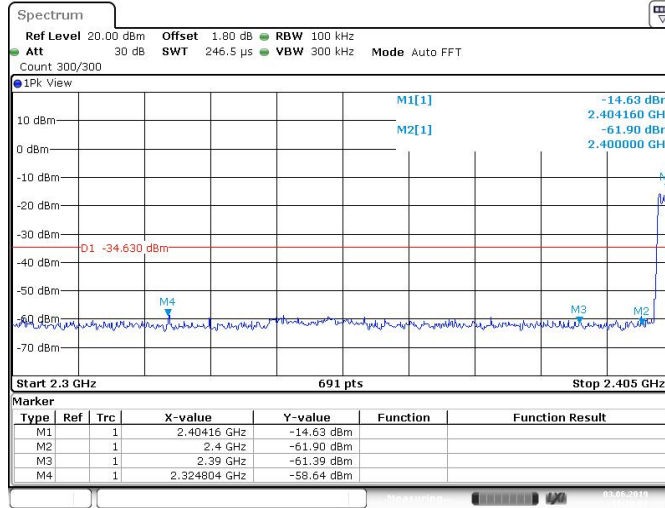
2DH5_Ant1_High_2480



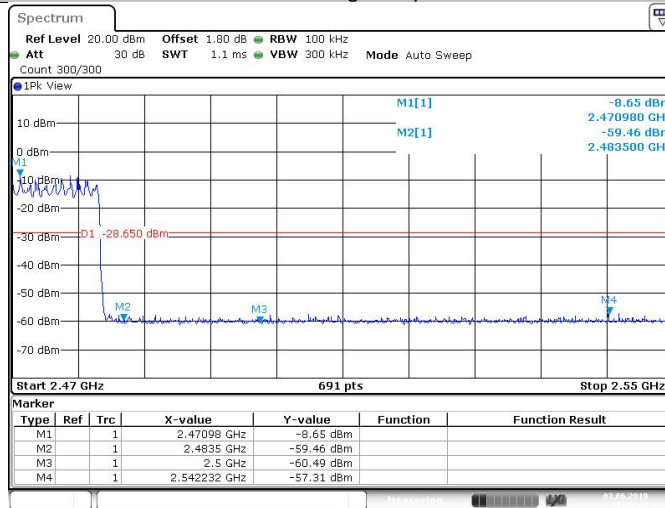
Date: 3 JUN 2019 17:56:32



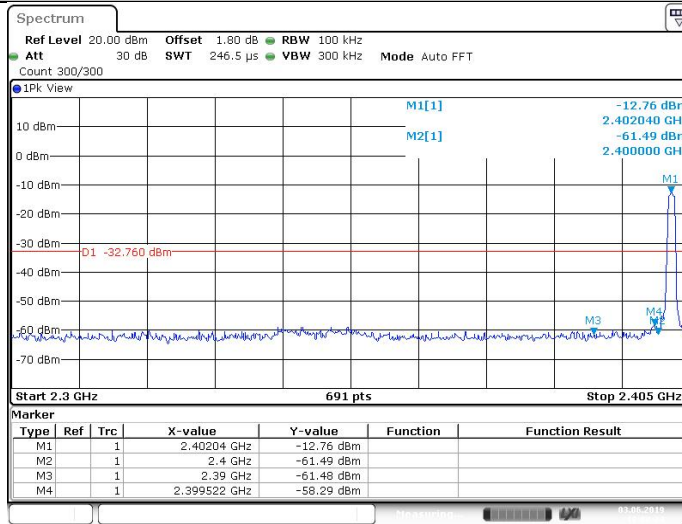
2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480

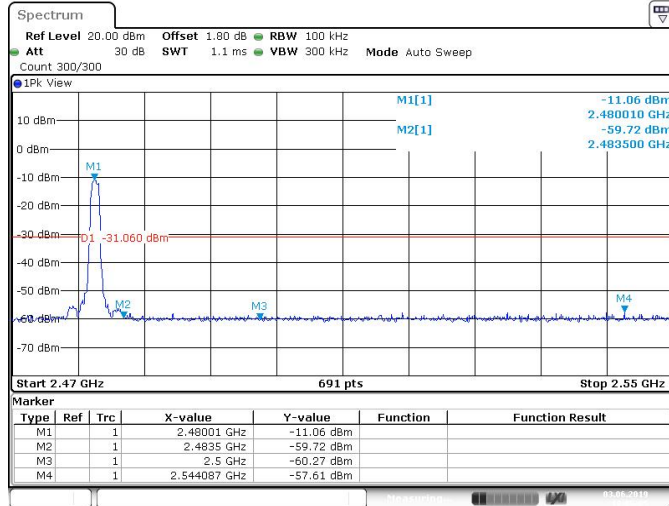


3DH5_Ant1_Low_2402



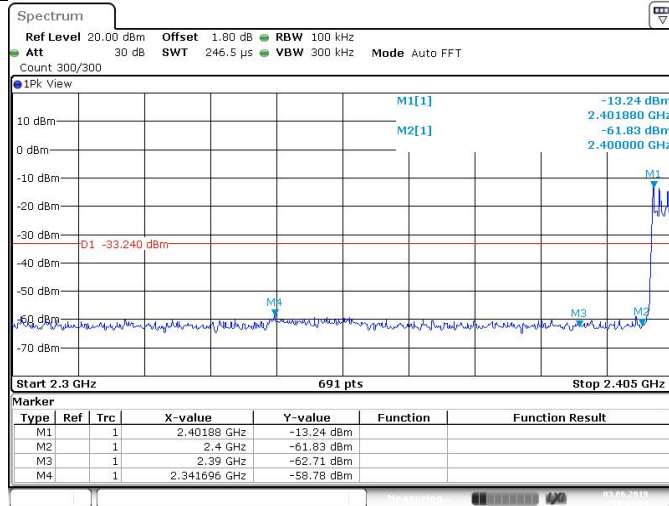


3DH5_Ant1_High_2480



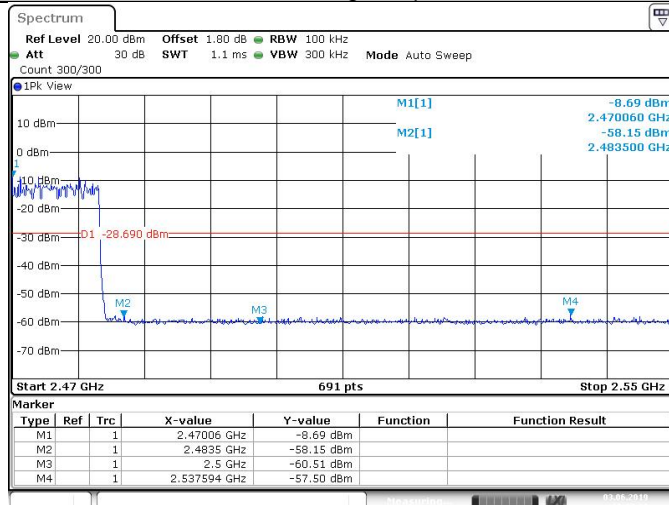
Date: 3 JUN 2019 18:05:06

3DH5_Ant1_Low_Hop_2402



Date: 3 JUN 2019 18:13:35

3DH5_Ant1_High_Hop_2480



Date: 3 JUN 2019 18:17:11

8.8 Spurious radiated emissions for transmitter

Test Method

- 1: The EUT was placed on a turn table which is 1.5m above ground plane for above 1GHz and 0.8m above ground for below 1GHz at 3-meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- 2: The EUT was set 3 meters away from the interference – receiving antenna, which was mounted on the top of a variable – height antenna tower.
- 3: The height of antenna 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.
- 4: 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 and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- 5: Use the following spectrum analyzer settings According to C63.10:

For Above 1GHz

Span = wide enough to capture the peak level of the in-band emission and all spurious
RBW = 1MHz, $VBW \geq RBW$ for peak measurement and $VBW = 10Hz$ for average measurement, Sweep = auto, Detector function = peak, Trace = max hold.

For Below 1GHz

Use the following spectrum analyzer settings:

Span = wide enough to capture the peak level of the in-band emission and all spurious
RBW = 100 KHz, $VBW \geq RBW$ for peak measurement, Sweep = auto, Detector function = peak, Trace = max hold.

Note:

- 1: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 KHz for Quasi-peak detection (QP) at frequency below 1GHz.
- 2: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for peak detection (PK) at frequency above 1GHz.
- 3: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for RMS Average ((duty cycle < 98%) for Average detection (AV) at frequency above 1GHz, then the measurement results was added to a correction factor ($20\log(1/\text{duty cycle})$).
- 4: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz (duty cycle > 98%) for Average detection (AV) at frequency above 1GHz.

Limit

The radio emission outside the operating frequency band 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. Radiated emissions which fall in the restricted bands, as defined in section 15.205, must comply with the radiated emission limits specified in section 15.209.

Frequency MHz	Field Strength uV/m	Field Strength dB μ V/m	Detector
30-88	100	40	QP
88-216	150	43.5	QP
216-960	200	46	QP
960-1000	500	54	QP
Above 1000	500	54	AV
Above 1000	5000	74	PK

Spurious radiated emissions for transmitter

According to C63.10, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement, so AV emission value did not show in below table if the peak value complies with average limit.

The only worse case (which is subject to the maximum EIRP, 8DPSK mode) test result is listed in the report.

Transmitting spurious emission test result as below:

8DPSK Modulation 2402MHz Test Result

Frequency Band	Frequency	Emission level	Correct factor	Polarization	Limit	Detector	Margin	Result
	MHz	dBuV/m	dBuV/m		dBuV/m		dBuV/m	
30-1000MHz	913.562222	33.84	-15.5	H	46	QP	12.16	Pass
	51.016667	28.88	-24.7	V	40	QP	11.12	Pass
1000-25000MHz	15285.468750	47.44	18.3	H	74	PK	26.56	Pass
	9453.750000	39.22	9.0	H	74	PK	34.78	Pass
	9406.875000	39.66	8.7	V	74	PK	34.34	Pass
	15337.500000	47.08	18.6	V	74	PK	26.92	Pass

8DPSK Modulation 2441MHz Test Result

Frequency Band	Frequency	Emission level	Correct factor	Polarization	Limit	Detector	Margin	Result
	MHz	dBuV/m	dBuV/m		dBuV/m		dBuV/m	
30-1000MHz	--	--	--	H	40	QP	--	Pass
	--	--	--	V	40	QP	--	Pass
1000-25000MHz	9476.250000	39.86	9.1	H	74	PK	34.14	Pass
	15374.062500	48.10	18.4	H	74	PK	25.90	Pass
	7053.750000	36.72	5.9	V	74	PK	37.28	Pass
	15816.562500	48.48	18.2	V	74	PK	25.52	Pass

8DPSK Modulation 2480MHz Test Result

Frequency Band	Frequency	Emission level	Correct factor	Polarization	Limit	Detector	Margin	Result
	MHz	dBuV/m	dBuV/m		dBuV/m		dBuV/m	
30-1000MHz	--	--	--	H	40	QP	--	Pass
	--	--	--	V	40	QP	--	Pass
1000-25000MHz	7001.718750	38.08	5.3	H	74	PK	35.92	Pass
	15327.656250	47.36	18.6	H	54	AV	26.64	Pass
	9463.593750	40.21	9.0	V	74	PK	33.79	Pass
	15221.250000	46.11	17.7	V	54	AV	27.89	Pass

Remark:

- (1) "--" means the emission(s) appear within the restrict bands shall follow the requirement of section 15.205.
- (2) Data of measurement within this frequency range shown "--" in the table above means the reading of emissions are the noise floor or attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Corrected Amplitude= Read level + Corrector factor
 Above 1GHz: Corrector factor = Antenna Factor + Cable Loss- Pre-amplifier
 Below 1GHz: Corrector factor = Antenna Factor + Cable Loss
 (The Reading Level is recorded by software which is not shown in the sheet)

9 Test Equipment List

List of Test Instruments

Radiated Emission Test

Description	Manufacturer	Model no.	Serial no.	cal. due date
EMI Test Receiver	Rohde & Schwarz	ESR 26	101269	2019-7-6
Trilog Super Broadband Test Antenna	Schwarzbeck	VULB 9163	707	2019-6-28
Horn Antenna	Rohde & Schwarz	HF907	102294	2019-6-28
Pre-amplifier	Rohde & Schwarz	SCU 18	102230	2019-7-6
Signal Generator	Rohde & Schwarz	SMY01	839369/005	2019-7-6
Attenuator	Agilent	8491A	MY39264334	2019-7-6
3m Semi-anechoic chamber	TDK	9X6X6	----	2020-7-7
Test software	Rohde & Schwarz	EMC32	Version 9.15.00	N/A

TS8997 Test System

DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL. DUE DATE
Signal Analyzer	Rohde & Schwarz	FSV40	101030	2019-7-6
RF Switch Module	Rohde & Schwarz	OSP120/OSP-B157	101226/100851	2019-7-6
10dB Attenuator	Weinschel	4M-10	43152	2019-7-6
Test software	Rohde & Schwarz	EMC32	Version 10.38.00	N/A
Test software	Tonscend	System for BT/WIFI	Version 2.6	N/A



10 System Measurement Uncertainty

For a 95% confidence level, the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 were:

System Measurement Uncertainty	
Test Items	Extended Uncertainty
Uncertainty for Radiated Spurious Emission 30MHz-1000MHz	Horizontal: 4.91dB; Vertical: 4.89dB;
Uncertainty for Radiated Spurious Emission 1000MHz-18000MHz	Horizontal: 4.80dB; Vertical: 4.79dB;
Uncertainty for Conducted RF test with TS 8997	RF Power Conducted: 1.16dB Frequency test involved: 0.6×10 ⁻⁷ or 1%