

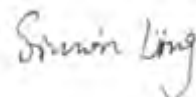
FCC TEST REPORT

Application No.: AR/2021/50004
Applicant: Xiaomi Communications Co., Ltd.
Address of Applicant #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
Manufacturer: Xiaomi Communications Co., Ltd.
Address of Manufacturer #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
EUT Description: Mobile Phone
Model No.: 21081111RG
Trade Mark: XIAOMI
FCC ID: 2AFZZ11RG
Standards: 47 CFR FCC Part 2, Subpart J
47 CFR Part 15, Subpart C
Date of Receipt: 2021/6/10
Date of Test: 2021/6/29 to 2021/7/19
Date of Issue: 2021/7/23

Test Result :	PASS *
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* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Authorized Signature :





Simon Ling
Wireless Laboratory Manager



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1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2021/7/23		Original

Authorized for issue by:		
Prepared By		 <hr/> (Leah Chen) / Engineer
Checked By		 <hr/> (Daniel Wang) /Reviewer



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2 Test Summary

Test Item	Test Requirement	Test Method	Test Result	Result
AC Power Line Conducted Emission	15.207	ANSI C63.10 (2013)	Clause 4.3	PASS
Conducted Peak Output Power	15.247 (b)(1)	ANSI C63.10 (2013)	Clause 4.4	PASS
20dB Emission Bandwidth	15.247 (a)(1)	ANSI C63.10 (2013)	Clause 4.5	PASS
Carrier Frequencies Separation	15.247 (a)(1)	ANSI C63.10 (2013)	Clause 4.6	PASS
Hopping Channel Number	15.247 (a)(1)	ANSI C63.10 (2013)	Clause 4.7	PASS
Dwell Time	15.247 (a)(1)	ANSI C63.10 (2013)	Clause 4.8	PASS
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10 (2013)	Clause 4.9	PASS
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10 (2013)	Clause 4.10	PASS
Radiated Spurious emissions	15.247(d); 15.205/15.209	ANSI C63.10 (2013)	Clause 4.11	PASS
Restricted bands around fundamental frequency (Radiated Emission)	15.247(d); 15.205/15.209	ANSI C63.10 (2013)	Clause 4.12	PASS



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3 General Information

3.1 Details of Client

Applicant:	Xiaomi Communications Co., Ltd.
Address of Applicant	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
Manufacturer:	Xiaomi Communications Co., Ltd.
Address of Manufacturer	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

3.2 Test Location

Company:	SGS-CSTC STANDARDS TECHNICAL SERVICES (XI 'AN) CO., LTD.
Address:	1/F, Unit D, Building 1, Kanghong Orange Technology Park, No.137, Keyuan 3rd Road, Fengdong New City, Xi'an, Shaanxi China
Post code:	710086
Test engineer:	Leah Chen, Ken Liu, Andy Yao



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3.3 Test Facility

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

A2LA (Certificate No. 4854.01)

SGS-CSTC STANDARDS TECHNICAL SERVICES (XI 'AN) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4854.01.

FCC-Designation Number: CN1271.



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3.4 General Description of EUT

EUT Description:	Mobile Phone
Model No.:	21081111RG
Trade Mark:	XIAOMI
Hardware Version:	P2
Software Version:	MIUI 12.5
Operation Frequency:	2400MHz~2483.5MHz fc = 2402 MHz + N * 2 MHz, where: -fc = "Operating Frequency" in MHz, -N = "Channel Number" with the range from 0 to 39.
Bluetooth version:	Bluetooth V5.2
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Modulation Type:	GFSK, π/4DQPSK, 8DPSK
Number of Channel:	79
Hopping Channel Type:	Adaptive Frequency Hopping systems
Sample Type:	<input checked="" type="checkbox"/> Portable Device, <input type="checkbox"/> Module
Antenna Type:	PIFA
Antenna Gain:	-2.9dBi



Operation Frequency of each 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		

Remark:

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:

Channel	Frequency
The Lowest channel(CH0)	2402MHz
The Middle channel(CH39)	2441MHz
The Highest channel(CH78)	2480MHz



3.5 Test Environment

Operating Environment:	
Temperature:	25.0 °C
Humidity:	50 % RH
Atmospheric Pressure:	101.30 KPa

3.6 Description of Support Units

The EUT has been tested independent unit.



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4 Test results and Measurement Data

4.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203 /247(c)
<p>15.203 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.</p> <p>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.</p>	
<p>The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is -2.9dBi.</p>	



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4.2 Other requirements Frequency Hopping Spread Spectrum System Hopping Sequence

4.2.1 Test Requirement:

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

4.2.2 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.

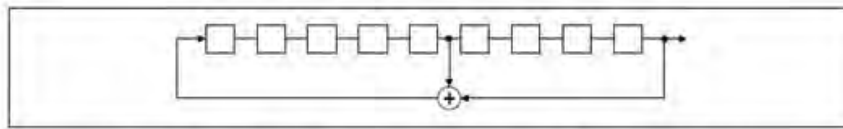
> Number of shift register stages: 9

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

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

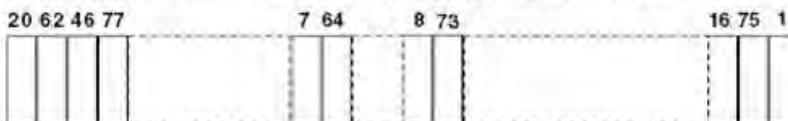
Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:



Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:



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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 RF 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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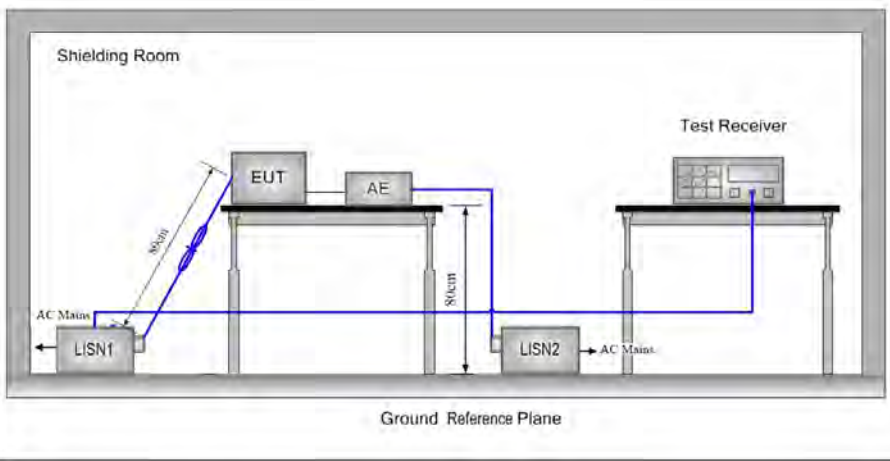
4.3 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207		
Test Method:	ANSI C63.10: 2013		
Test Frequency Range:	150kHz to 30MHz		
Limit:	Frequency range (MHz)	Limit (dBuV)	
		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.			
Test Procedure:	<ol style="list-style-type: none"> 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 50Ω/50μH + 5Ω 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: 2013 on conducted measurement. 		



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<p>Test Setup:</p>	
<p>Test Mode:</p>	<p>Non-hopping transmitting mode with all kind of modulation and all kind of data type at the lowest, middle, high channel. Charge + Transmitting mode.</p>
<p>Final Test Mode:</p>	<p>Through Pre-scan, find the DH5 of data type and GFSK modulation at the lowest channel is the worst case. Charge + Transmitting mode Only the worst case is recorded in the report.</p>
<p>Instruments Used:</p>	<p>Refer to section 6 for details.</p>
<p>Test Results:</p>	<p>Pass</p>



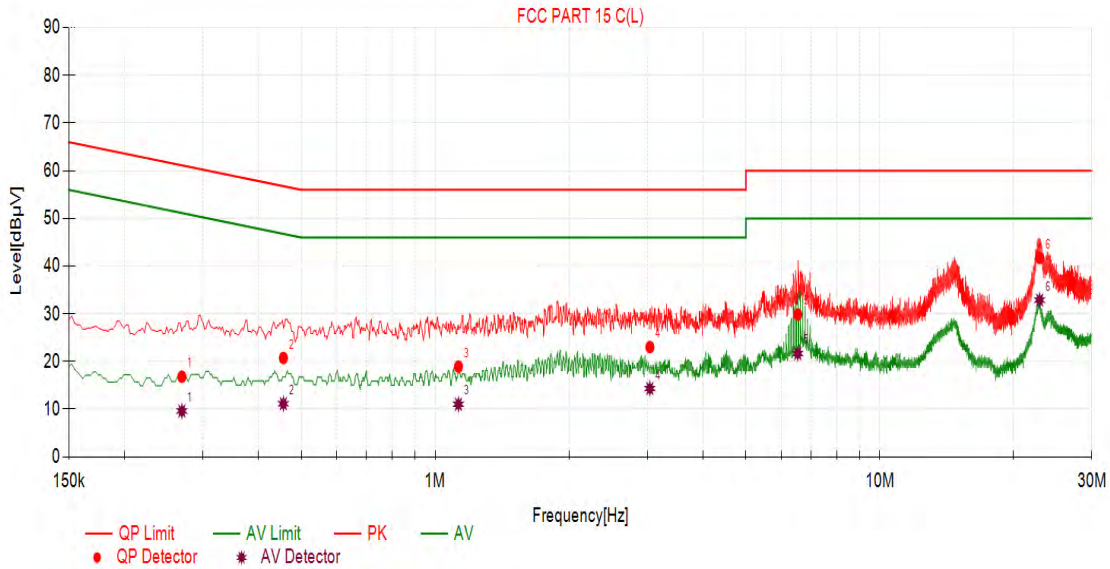
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Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

Live Line:



Test Graph

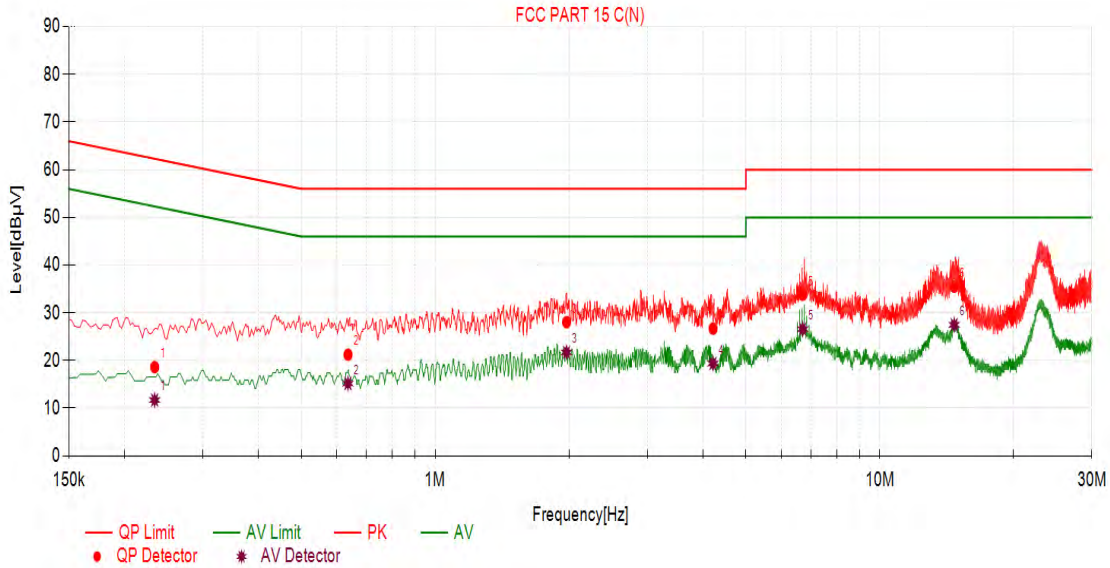
Final Data List									
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.2694	10.10	16.82	61.14	44.32	9.63	51.14	41.51	PASS
2	0.4557	10.10	20.74	56.77	36.03	11.15	46.77	35.62	PASS
3	1.1284	10.10	18.93	56.00	37.07	11.04	46.00	34.96	PASS
4	3.0404	10.10	23.04	56.00	32.96	14.34	46.00	31.66	PASS
5	6.5406	10.10	29.86	60.00	30.14	21.67	50.00	28.33	PASS
6	22.8949	10.11	41.72	60.00	18.28	32.88	50.00	17.12	PASS



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Neutral Line:



Test Graph

Final Data List									
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.2340	10.10	18.62	62.31	43.69	11.71	52.31	40.60	PASS
2	0.6367	10.10	21.22	56.00	34.78	15.17	46.00	30.83	PASS
3	1.9752	10.10	28.04	56.00	27.96	21.70	46.00	24.30	PASS
4	4.2169	10.10	26.69	56.00	29.31	19.37	46.00	26.63	PASS
5	6.7132	10.10	33.80	60.00	26.20	26.59	50.00	23.41	PASS
6	14.7076	10.11	35.47	60.00	24.53	27.50	50.00	22.50	PASS

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.



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4.4 Conducted Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(1)
Test Method:	ANSI C63.10:2013 Section 7.8.5
Test Setup:	
Test Instruments:	Refer to section 6 for details
Exploratory Test Mode:	Non-hopping transmitting with all kind of modulation and all kind of data type.
Final Test Mode:	Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of $\pi/4$ DQPSK modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type.
Limit:	(20.97dBm) 125mW
Test Results:	Pass

The detailed test data see: **Appendix**



4.5 20dB Emission Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2013 Section 7.8.7
Test Setup:	
Instruments Used:	Refer to section 6 for details
Exploratory Test Mode:	Non-hopping transmitting with all kind of modulation and all kind of data type.
Final Test Mode:	Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of $\pi/4$ DQPSK modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type.
Limit:	NA
Test Results:	Pass

The detailed test data see: **Appendix**



4.6 Carrier Frequencies Separationy

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2013 Section 7.8.2
Test Setup:	<p>The diagram illustrates the test setup. A Spectrum Analyzer is connected via a red cable to an E.U.T. (Equipment Under Test). Both are placed on a Non-Conducted Table. Below the table is a Ground Reference Plane.</p>
Test Instruments:	Refer to section 6 for details
Exploratory Test Mode:	Hopping transmitting with all kind of modulation and all kind of data type.
Final Test Mode:	Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of $\pi/4$ DQPSK modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type.
Limit:	2/3 of the 20dB bandwidth Remark: the transmission power is less than 0.125W.
Test Results:	Pass

The detailed test data see: **Appendix**



4.7 Hopping Channel Number

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2013 Section 7.8.3
Test Setup:	<p>The diagram illustrates the test setup. A Spectrum Analyzer is connected via a red cable to an E.U.T. (Equipment Under Test). Both are placed on a Non-Conducted Table. Below the table is a Ground Reference Plane.</p>
Instruments Used:	Refer to section 6 for details
Test Mode:	Hopping transmitting with all kind of modulation
Limit:	At least 15 channels
Test Results:	Pass

The detailed test data see: **Appendix**



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4.8 Dwell Time

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2013 Section 7.8.4
Test Setup:	<p>The diagram illustrates the test setup. A Spectrum Analyzer is connected via a red cable to an E.U.T. (Equipment Under Test). Both are placed on a Non-Conducted Table. Below the table is a Ground Reference Plane.</p>
Instruments Used:	Refer to section 6 for details
Test Mode:	Hopping transmitting with all kind of modulation and all kind of data type.
Limit:	0.4 Second
Test Results:	Pass

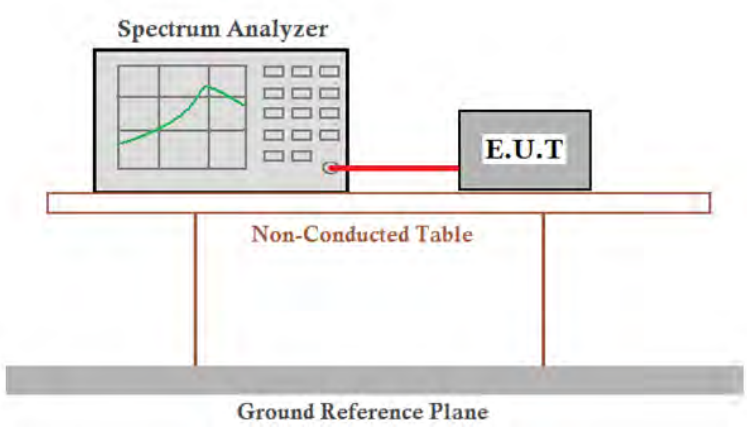
The detailed test data see: **Appendix**



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4.9 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10:2013 Section 7.8.6
Test Setup:	
Instruments Used:	Refer to section 6 for details
Exploratory Test Mode:	Hopping and Non-hopping transmitting with all kind of modulation and all kind of data type.
Final Test Mode:	Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of $\pi/4$ DQPSK modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type.
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.
Test Results:	Pass

The detailed test data see: **Appendix**



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4.10 Spurious RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10:2013 Section 7.8.8
Test Setup:	
Instruments Used:	Refer to section 6 for details
Exploratory Test Mode:	Non-hopping transmitting with all kind of modulation and all kind of data type.
Final Test Mode:	Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of $\pi/4$ DQPSK modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type.
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.
Test Results:	Pass

The detailed test data see: **Appendix**



4.11 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205				
Test Method:	ANSI C63.10 :2013 Section 11.12				
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak	
	Peak	1MHz	3MHz	RMS	
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3
Remark: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.					

The detailed test data see: **Appendix**



<p>Test Setup:</p>	
<p>Figure 1. Below 30MHz</p>	<p>Figure 2. 30MHz to 1GHz</p>
<p>Figure 3. Above 1 GHz</p>	
<p>Test Procedure:</p>	<ol style="list-style-type: none"> 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. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation 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. 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. Use the following spectrum analyzer settings: <ol style="list-style-type: none"> Span shall wide enough to fully capture the emission being measured; Set RBW=100 kHz for $f < 1$ GHz, RBW=1MHz for $f > 1$GHz ; VBW \geq RBW; Sweep = auto; Detector function = peak; Trace = max hold for peak For average measurement: use duty cycle correction factor method per 15.35(c).



	<p>Duty cycle = On time/100 milliseconds $On\ time = N_1 * L_1 + N_2 * L_2 + \dots + N_{n-1} * L_{n-1} + N_n * L_n$ Where N_1 is number of type 1 pulses, L_1 is length of type 1 pulses, etc. Average Emission Level = Peak Emission Level + 20*log(Duty cycle)</p> <p>f. 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.</p> <p>g. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>h. 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.</p> <p>i. Test the EUT in the lowest channel, the middle channel, the Highest channel.</p> <p>j. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.</p> <p>k. Repeat above procedures until all frequencies measured was complete.</p>
Exploratory Test Mode:	<p>Non-hopping transmitting mode with all kind of modulation and all kind of data type Charge + Transmitting mode.</p>
Final Test Mode:	<p>Through Pre-scan, find the DH5 of data type and GFSK modulation is the worst case. Pretest the EUT at Charge + Transmitting mode For below 1GHz part, through pre-scan, the worst case is the lowest channel. Only the worst case is recorded in the report.</p>
Instruments Used:	Refer to section 6 for details
Test Results:	Pass

The detailed test data see: **Appendix**



4.12 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205		
Test Method:	ANSI C63.10: 2013		
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)		
Limit:	Frequency	Limit (dBuV/m)	Remark
	30MHz-88MHz	40.0	Quasi-peak
	88MHz-216MHz	43.5	Quasi-peak
	216MHz-960MHz	46.0	Quasi-peak
	960MHz-1GHz	54.0	Quasi-peak
	Above 1GHz	54.0	Average Value
		74.0	Peak Value
Test Setup:			

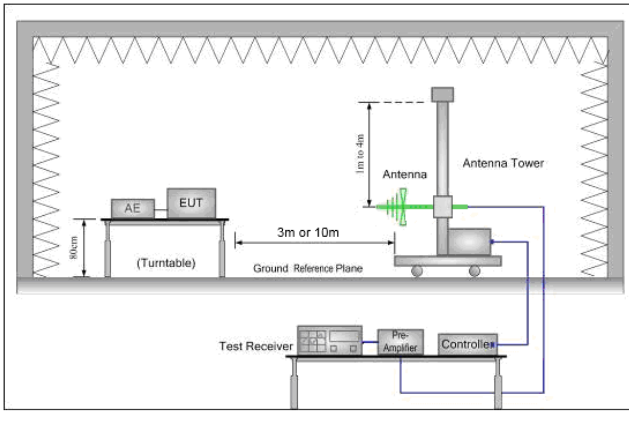


Figure 1. 30MHz to 1GHz

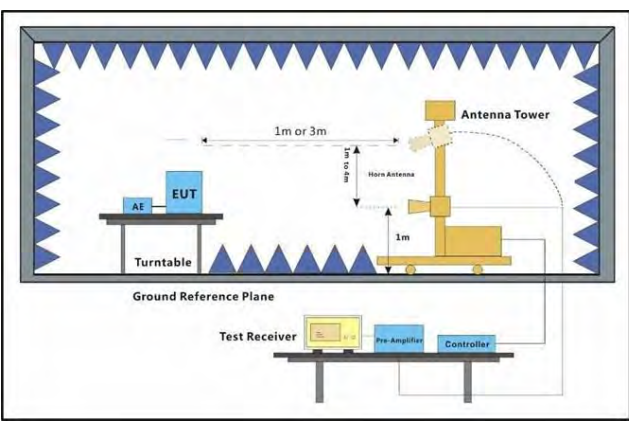


Figure 2. Above 1 GHz



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<p>Test Procedure:</p>	<ol style="list-style-type: none"> 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. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. 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. 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. 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. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel Test the EUT in the lowest channel , the Highest channel The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode,And found the X axis positioning which it is worse case. Repeat above procedures until all frequencies measured was complete.
<p>Exploratory Test Mode:</p>	<p>Non-hopping transmitting mode with all kind of modulation and all kind of data type Charge + Transmitting mode.</p>
<p>Final Test Mode:</p>	<p>Through Pre-scan, find the DH5 of data type and GFSK modulation is the worst case. Pretest the EUT at Charge + Transmitting mode, Only the worst case is recorded in the report.</p>
<p>Instruments Used:</p>	<p>Refer to section 6 for details</p>
<p>Test Results:</p>	<p>Pass</p>

The detailed test data see: **Appendix**



5 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	±0.35dB
2	RF power density, conducted	±1.96dB
3	Spurious emissions, conducted	±0.41dB
4	Radio Frequency	±7.10 x 10 ⁻⁸
5	Duty Cycle	±0.49%
6	Occupied Bandwidth	±0.2%
7	Frquency Stability	±0.2ppm
8	Conduction Emission	± 3.0dB (150kHz to 30MHz)
9	Radiated Emission	± 4.8dB (Below 1GHz)
		± 4.8dB (1GHz to 6GHz)
		± 4.5dB (6GHz to 18GHz)
		± 5.02dB (Above 18GHz)



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6 Equipment List

RF conducted					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
Temperature and humidity meter	MingGao	T809	XAW01-01-04	2020/11/6	2021/11/5
Radio communication analyzer	ROHDE&SCHWARZ	CMW 500	XAW01-03-07	2020/10/26	2021/10/25
Spectrum Analyzer	ROHDE&SCHWARZ	FSU	100366	2021/6/8	2022/6/7
Spectrum Analyzer	ROHDE&SCHWARZ	FSV3044	101146	2021/6/8	2022/6/7
temperature chamber	Votsch	VT4002	XAW01-18-01	2021/4/1	2022/3/31
Filter bank	Tonscend	JS0806-F	19C8060147	NCR	NCR
RF control unit	Tonscend	JS0806-1	NCR	NCR	NCR
Test Software	Tonscend	JS1120-3 (v2.6.77.0518)	NCR	NCR	NCR

CE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	Brilliant-emc	N/A	XAW03-35-01	2019-09-11	2022-09-10
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2020-09-11	2021-09-10
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-01	2020-08-04	2021-08-03
Temperature and humidity meter	MingGao	TH101B	XAW01-01-01	2020-11-06	2021-11-05
Measurement Software	Tonscend	TS+ CE V2.5	XAW02-05-02	NCR	NCR



RSE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Semi-Anechoic Chamber	Brilliant-emc	N/A	XAW03-35-01	2019-09-11	2022-09-10
MXA signal analyzer	Keysight	N9020A	XAW01-06-01	2021-04-01	2022-03-31
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2020-09-11	2021-09-10
Receiving antenna (30MHz~3GHz)	Schwarzbeck	VULB 9163	XAW01-09-01	2019-10-13	2021-10-12
Receiving antenna (1GHz~18GHz)	Schwarzbeck	BBHA 9120D	XAW01-09-02	2019-10-13	2021-10-12
Receiving antenna (15GHz~40GHz)	Schwarzbeck	BBHA 9170	XAW01-09-03	2019-10-13	2021-10-12
Directional antenna rack controller	Max-Full	MF-7802BS	XAW03-03-01	NCR	NCR
High-speed antenna rack controller	Max-Full	MF-7802	XAW03-04-01	NCR	NCR
Filter bank	Tonscend	JS0806-F	XAW03-05-01	NCR	NCR
Filter bank	Tonscend	JS0806s	XAW03-05-02	NCR	NCR
Amplifier	Tonscend	TAP00903040	XAW01-41-01	2020-10-26	2021-10-25
Amplifier	Tonscend	TAP01018048	XAW01-41-02	2020-10-26	2021-10-25
Amplifier	Tonscend	TAP18040048	XAW01-41-03	2020-10-27	2021-10-26
Amplifier	Shanghai Steed	YX28980930	XAW01-41-06	2020-10-26	2021-10-25
Temperature and humidity meter	MingGao	TH101B	XAW01-01-01	2020-11-06	2021-11-05
Measurement Software	Tonscend	TS+ RSE V3.0.0.2	XAW02-05-01	NCR	NCR



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7 Photographs - EUT Constructional Details

Refer to Appendix A Setup Photos.



Appendix



**20dB Emission Bandwidth
Test Result**

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.846	2401.571	2402.417	---	PASS
		2441	0.861	2440.553	2441.414	---	PASS
		2480	0.864	2479.550	2480.414	---	PASS
2DH5	Ant1	2402	1.299	2401.364	2402.663	---	PASS
		2441	1.299	2440.364	2441.663	---	PASS
		2480	1.323	2479.340	2480.663	---	PASS
3DH5	Ant1	2402	1.299	2401.355	2402.654	---	PASS
		2441	1.299	2440.355	2441.654	---	PASS
		2480	1.299	2479.352	2480.651	---	PASS



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Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441

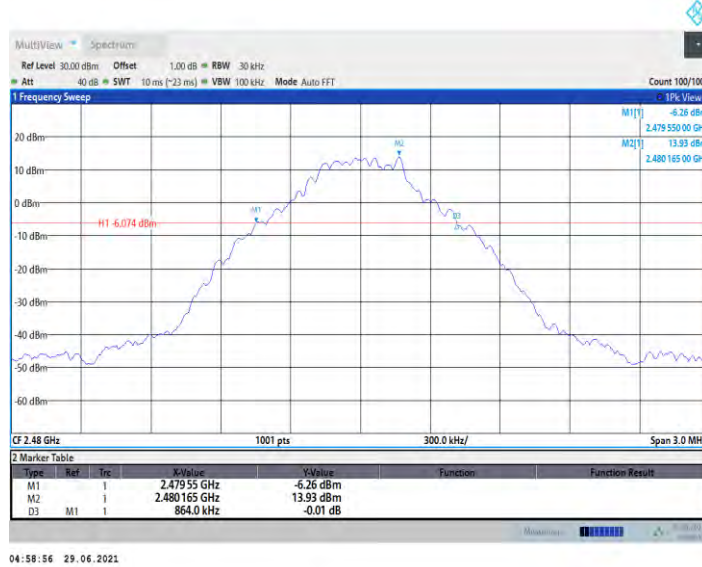


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DH5 Ant1 2480



2DH5 Ant1 2402



2DH5 Ant1 2441



2DH5 Ant1 2480



3DH5 Ant1 2402



3DH5 Ant1 2441



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3DH5 Ant1 2480



05:21:12 29.06.2021



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**Occupied Channel Bandwidth
Test Result**

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.753	2401.633	2402.386	---	PASS
		2441	0.754	2440.630	2441.384	---	PASS
		2480	0.758	2479.627	2480.384	---	PASS
2DH5	Ant1	2402	1.177	2401.416	2402.593	---	PASS
		2441	1.177	2440.415	2441.592	---	PASS
		2480	1.176	2479.413	2480.589	---	PASS
3DH5	Ant1	2402	1.174	2401.420	2402.594	---	PASS
		2441	1.176	2440.418	2441.593	---	PASS
		2480	1.177	2479.415	2480.592	---	PASS



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Test Graphs

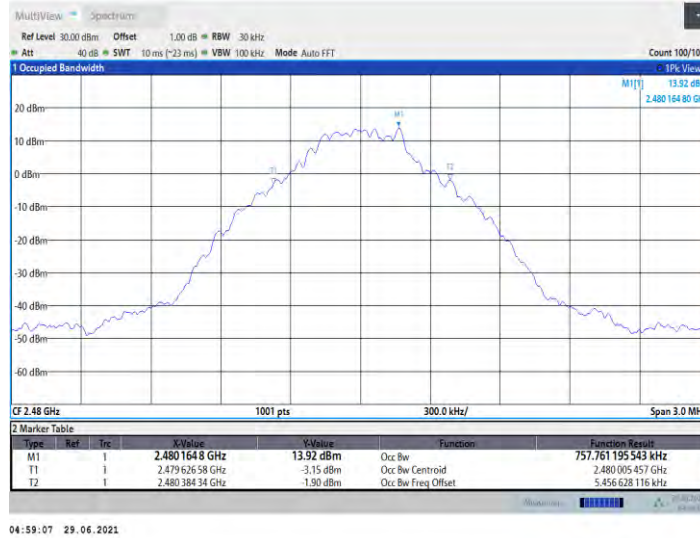


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DH5 Ant1 2480



2DH5 Ant1 2402

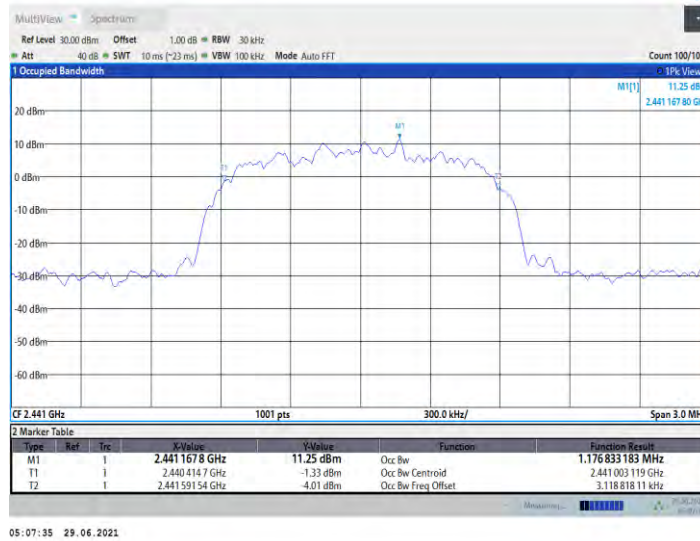


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2DH5 Ant1 2441



2DH5 Ant1 2480



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3DH5 Ant1 2402



3DH5 Ant1 2441

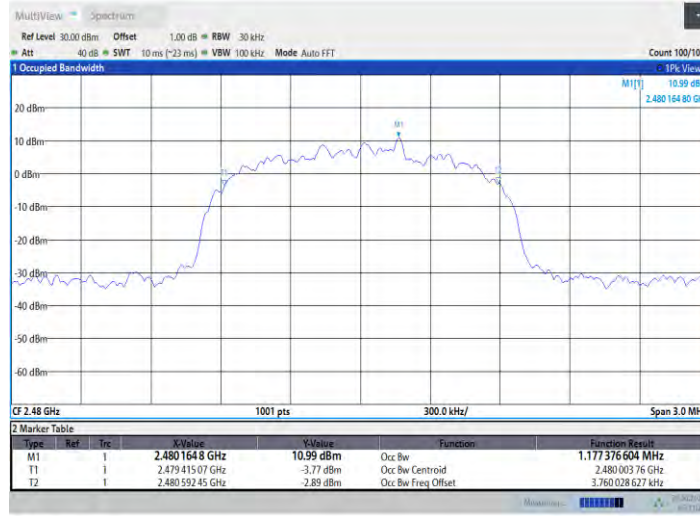


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3DH5 Ant1 2480



05:21:23 29.06.2021



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**Maximum conducted output power
Test Result**

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	12.76	≤30	PASS
		2441	14.29	≤30	PASS
		2480	13.75	≤30	PASS
2DH5	Ant1	2402	12.35	≤20.97	PASS
		2441	14.11	≤20.97	PASS
		2480	13.23	≤20.97	PASS
3DH5	Ant1	2402	12.21	≤20.97	PASS
		2441	13.95	≤20.97	PASS
		2480	13.35	≤20.97	PASS

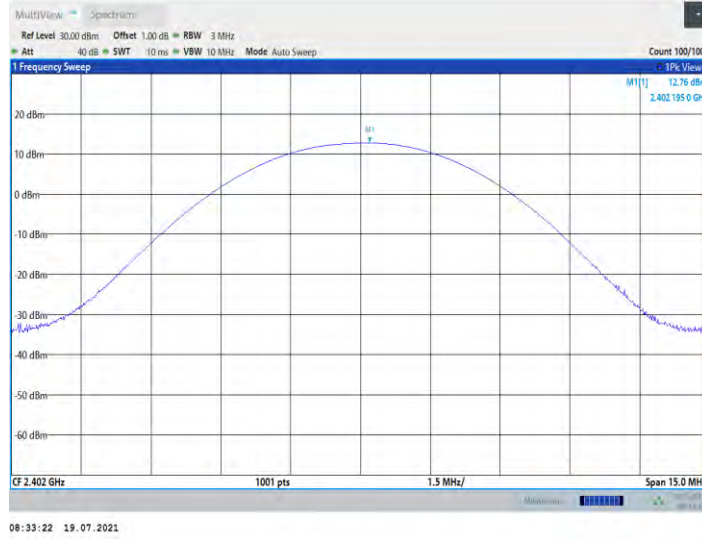


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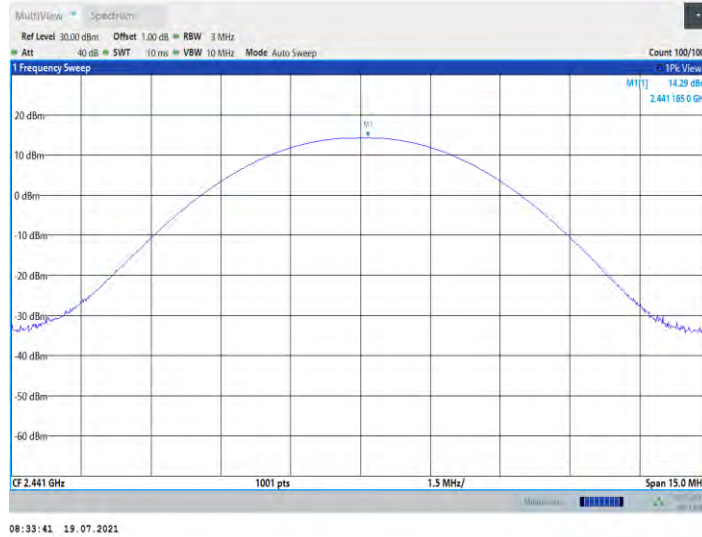
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Test Graphs

DH5_Ant1_2402

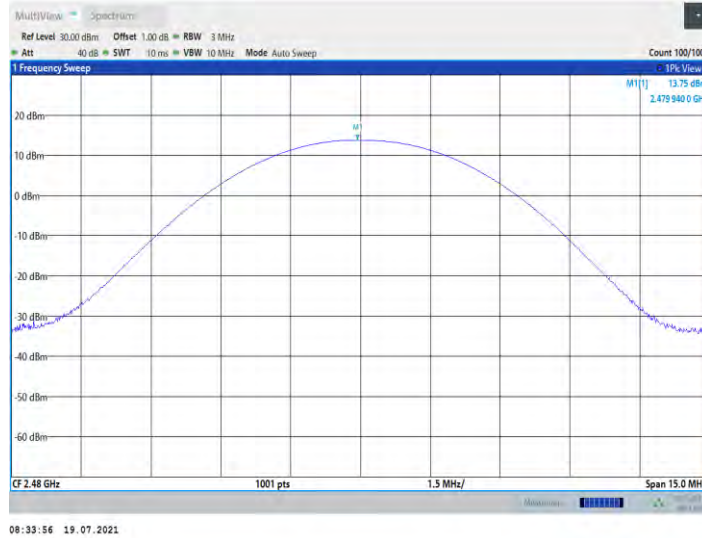


DH5_Ant1_2441

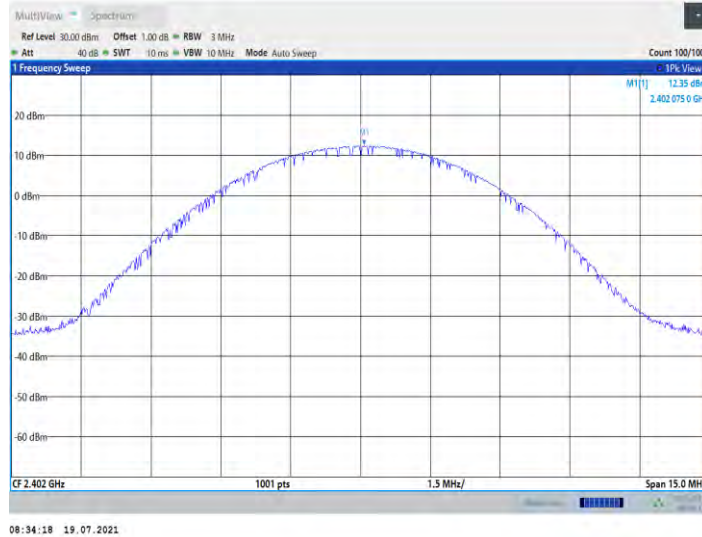


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DH5 Ant1 2480

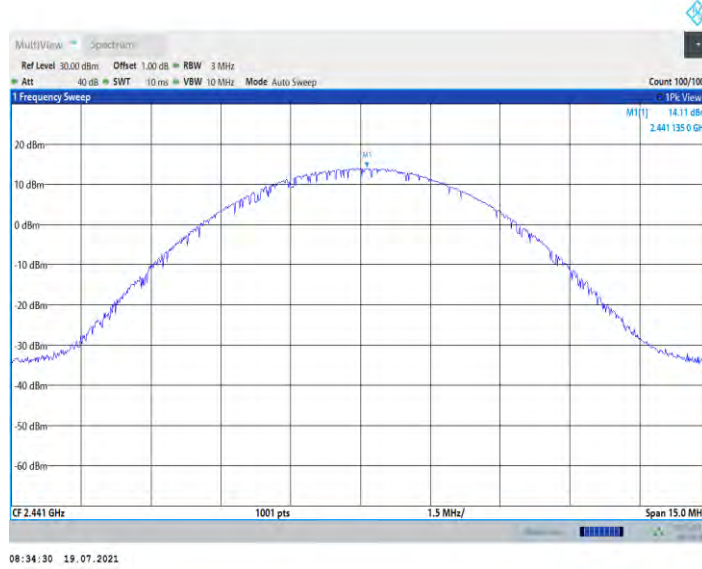


2DH5 Ant1 2402

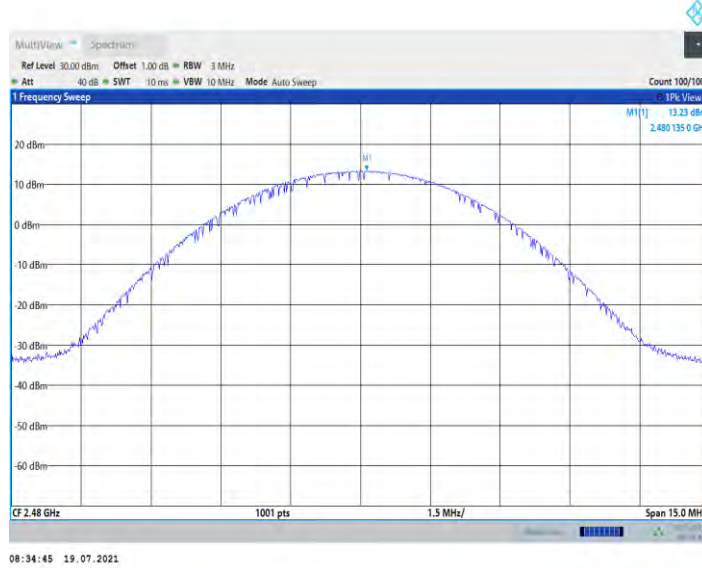


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2DH5 Ant1 2441

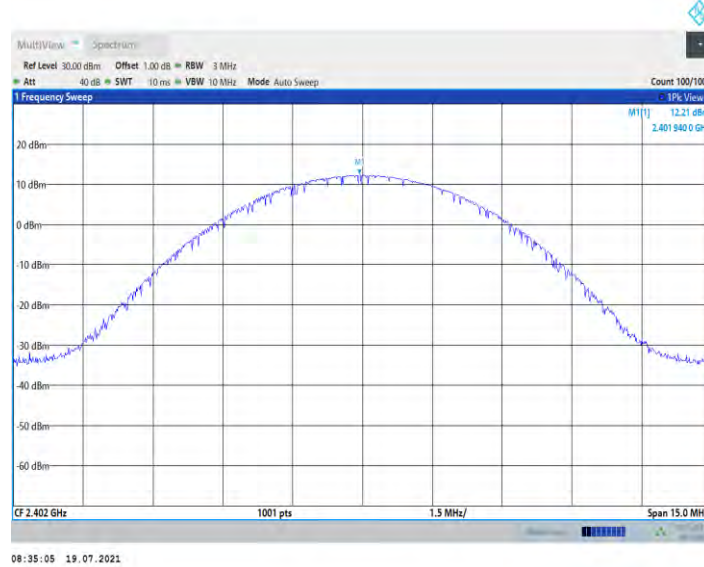


2DH5 Ant1 2480

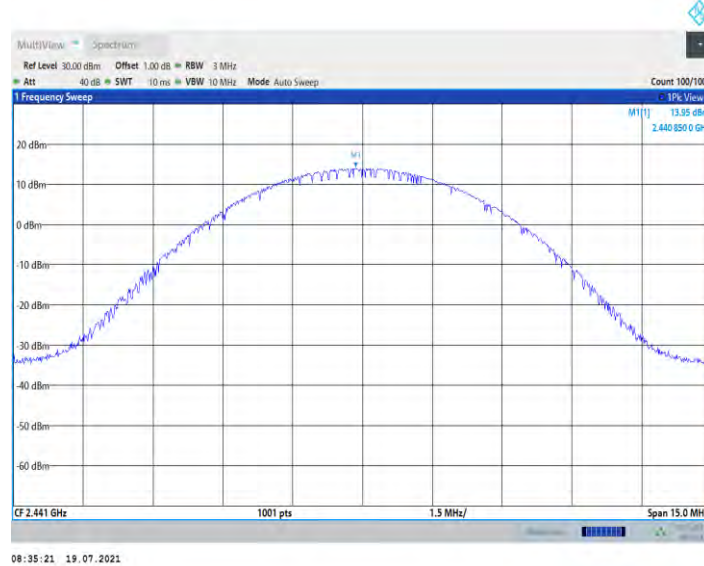


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3DH5 Ant1 2402

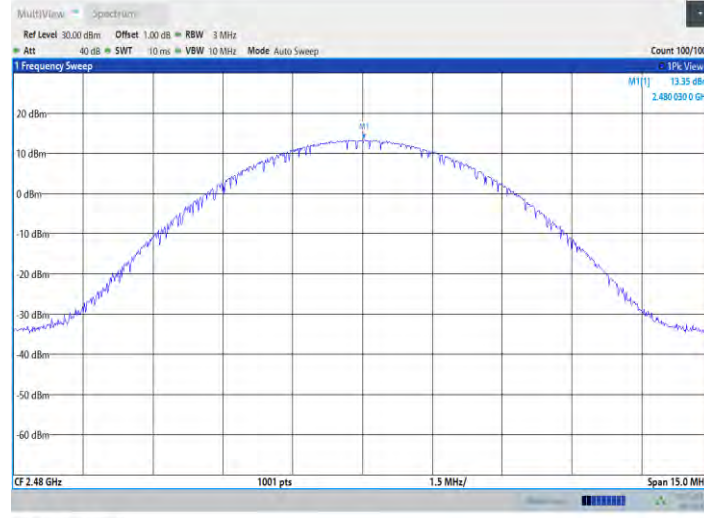


3DH5 Ant1 2441



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**Carrier frequency separation
Test Result**

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	Hop	1	>=0.864	PASS
2DH5	Ant1	Hop	0.98	>=0.882	PASS
3DH5	Ant1	Hop	1.04	>=0.866	PASS

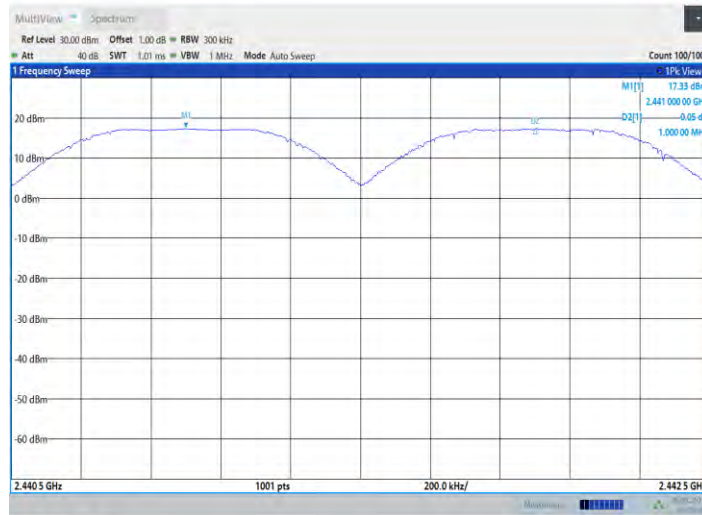


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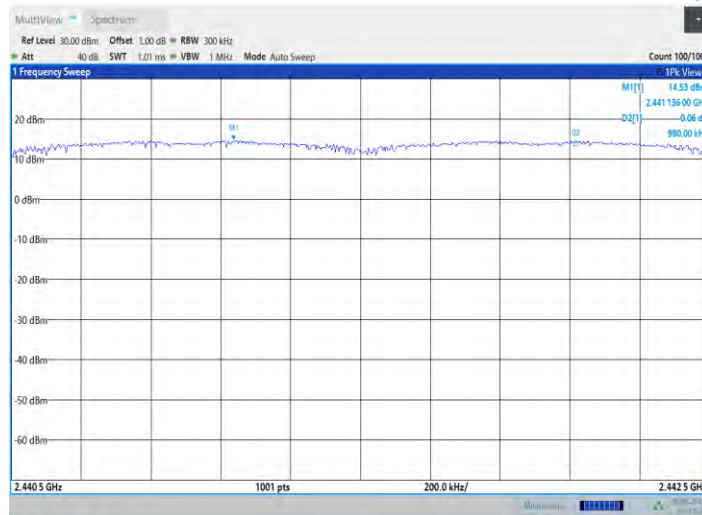
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Test Graphs

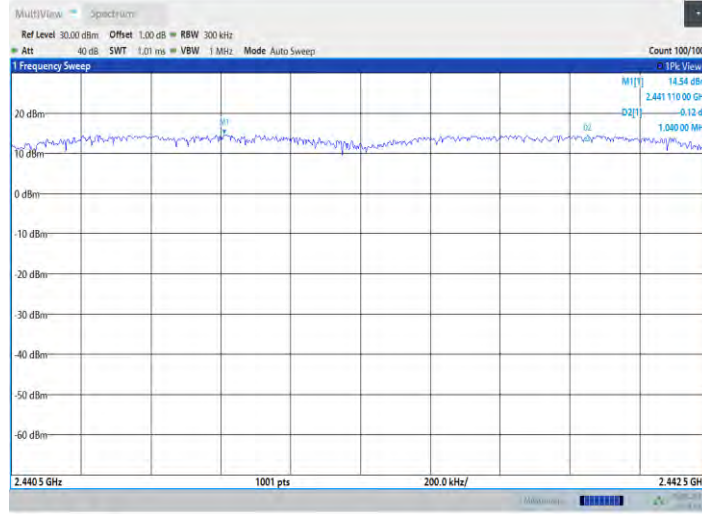
DH5_Ant1_Hop



2DH5 Ant1 Hop



3DH5 Ant1 Hop



05:43:52 29.06.2021



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**Time of occupancy
Test Result**

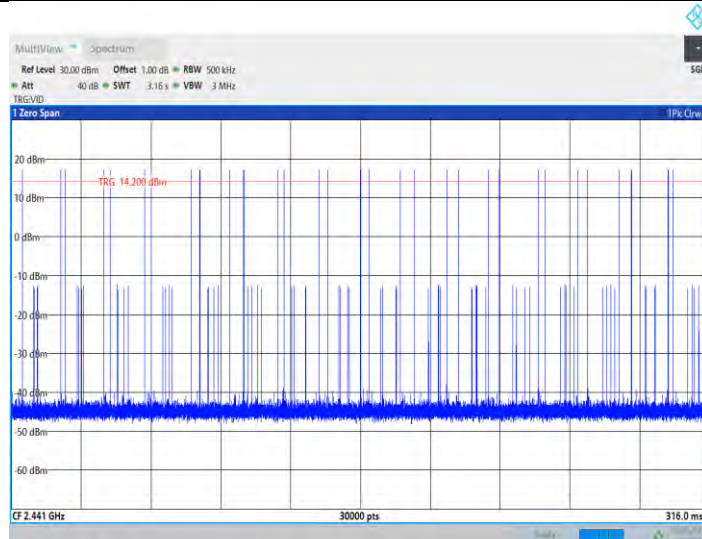
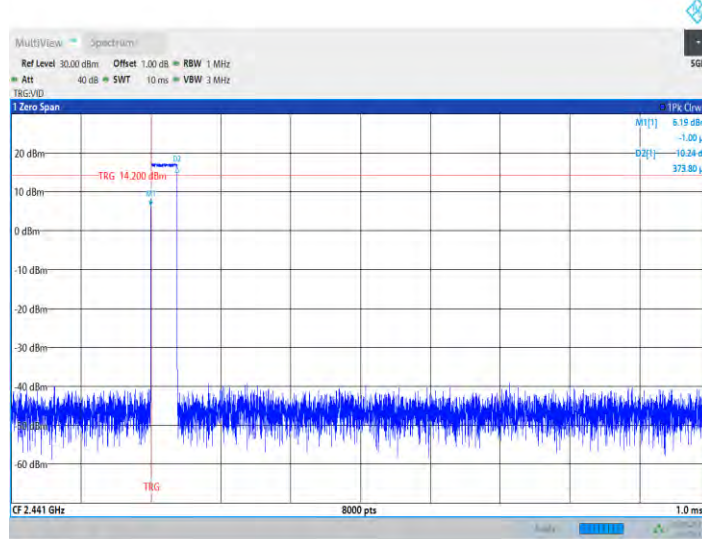
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	320	0.12	<=0.4	PASS
DH3	Ant1	Hop	1.63	190	0.31	<=0.4	PASS
DH5	Ant1	Hop	2.88	90	0.259	<=0.4	PASS
2DH1	Ant1	Hop	0.38	330	0.126	<=0.4	PASS
2DH3	Ant1	Hop	1.63	190	0.31	<=0.4	PASS
2DH5	Ant1	Hop	2.88	100	0.288	<=0.4	PASS
3DH1	Ant1	Hop	0.38	320	0.122	<=0.4	PASS
3DH3	Ant1	Hop	1.63	150	0.245	<=0.4	PASS
3DH5	Ant1	Hop	2.88	90	0.26	<=0.4	PASS



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Test Graphs

DH1_Ant1_Hop



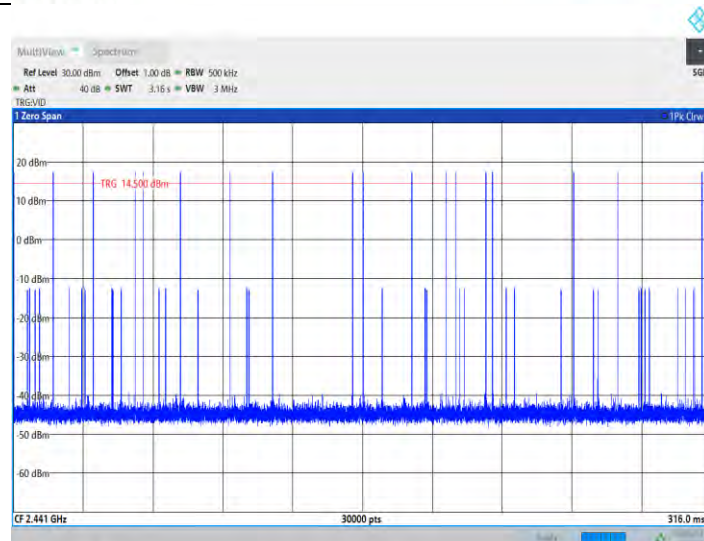
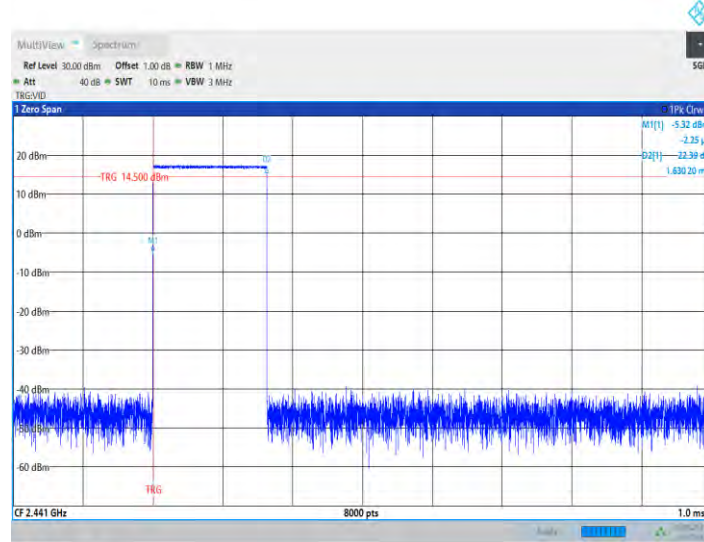
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DH3 Ant1 Hop



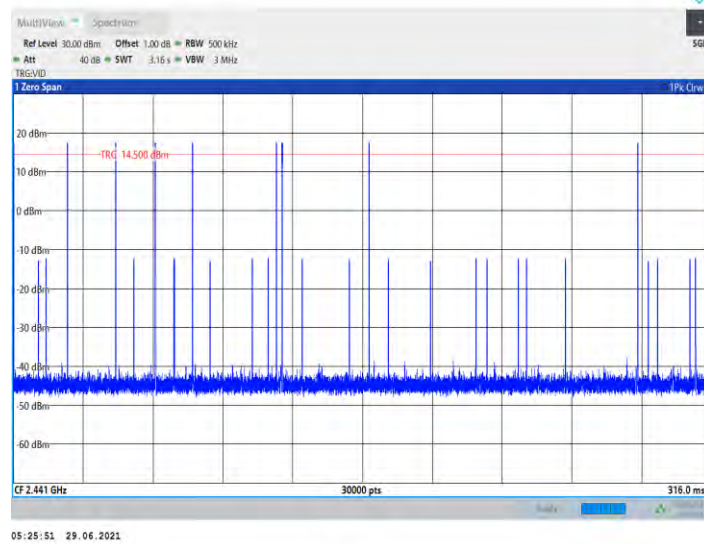
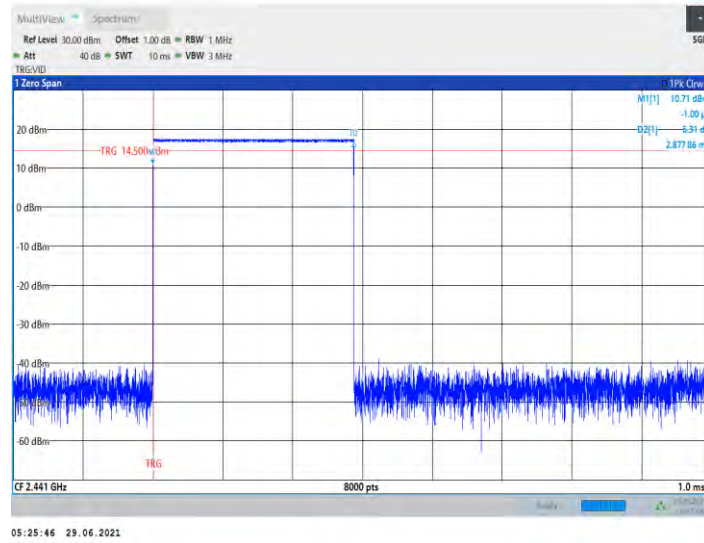
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DH5 Ant1 Hop



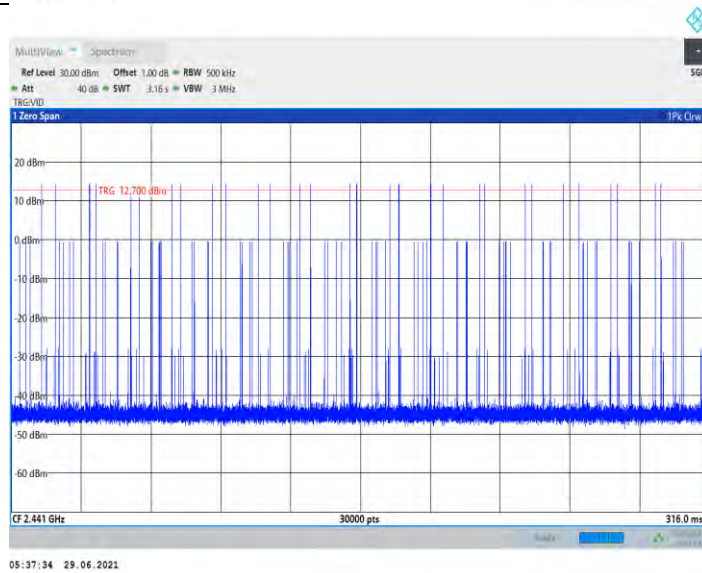
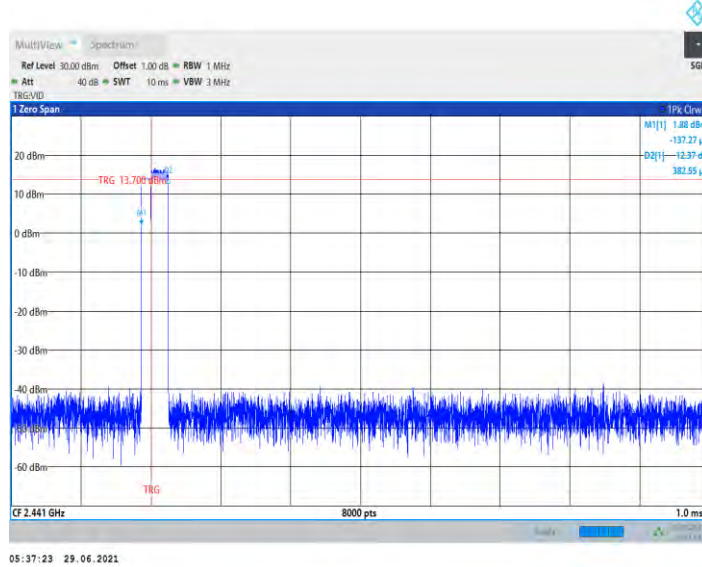
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2DH1 Ant1 Hop



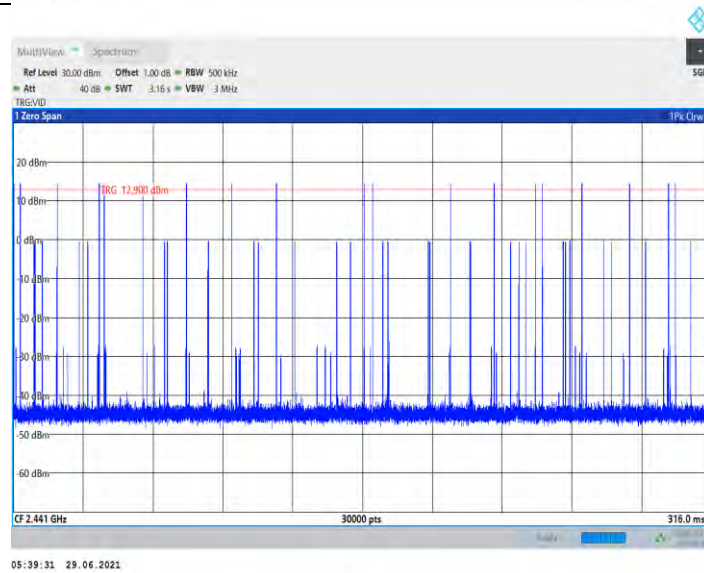
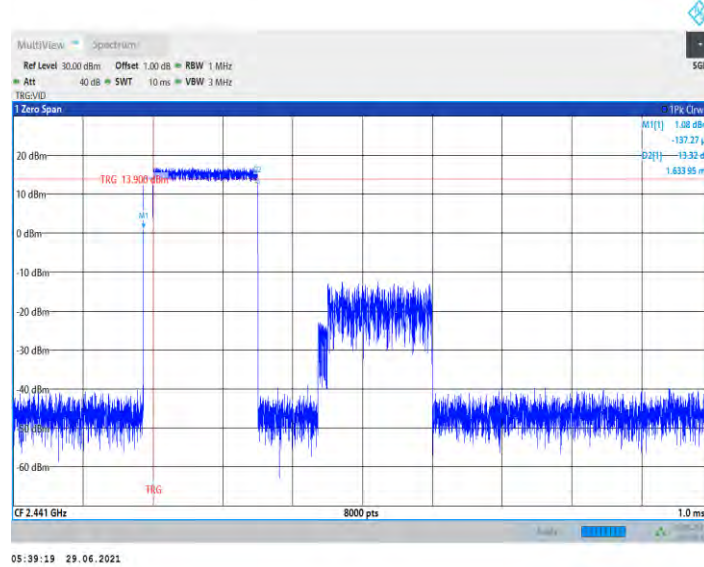
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2DH3 Ant1 Hop



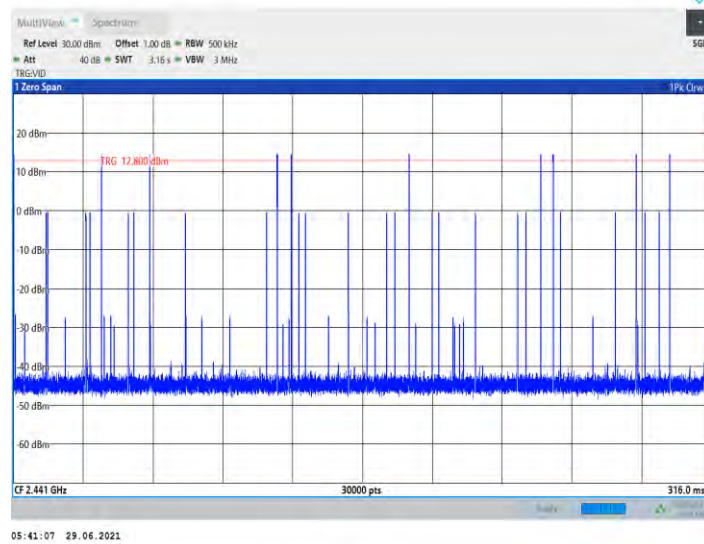
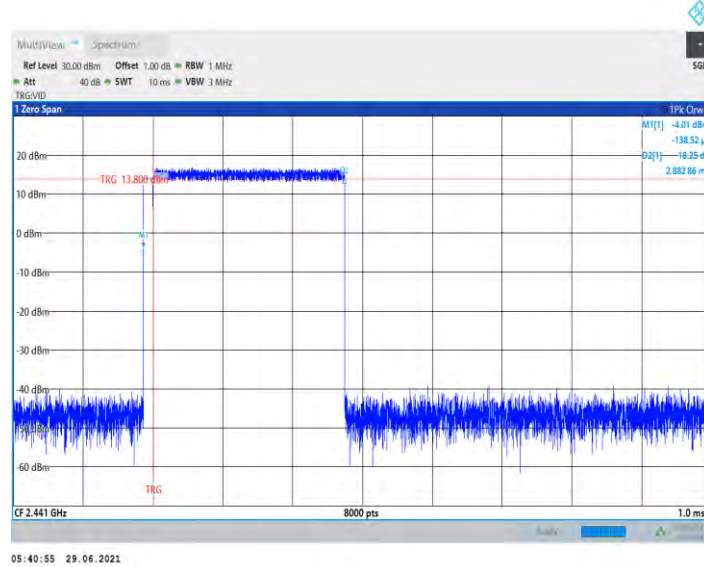
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2DH5 Ant1 Hop

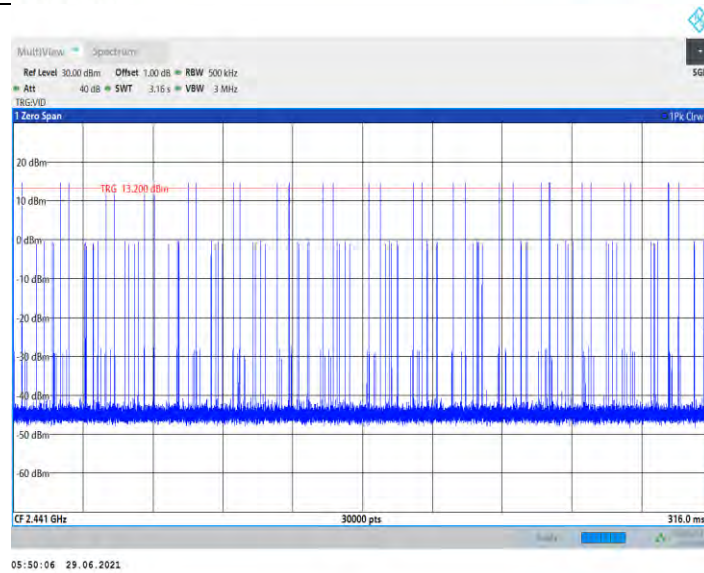
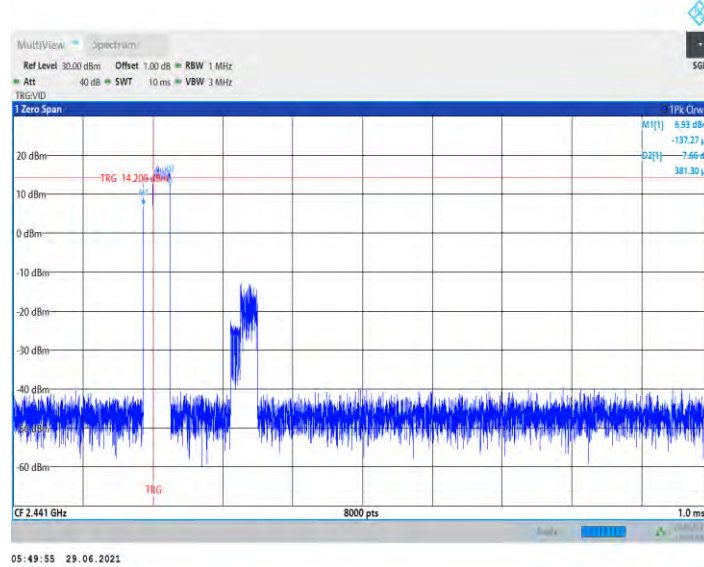


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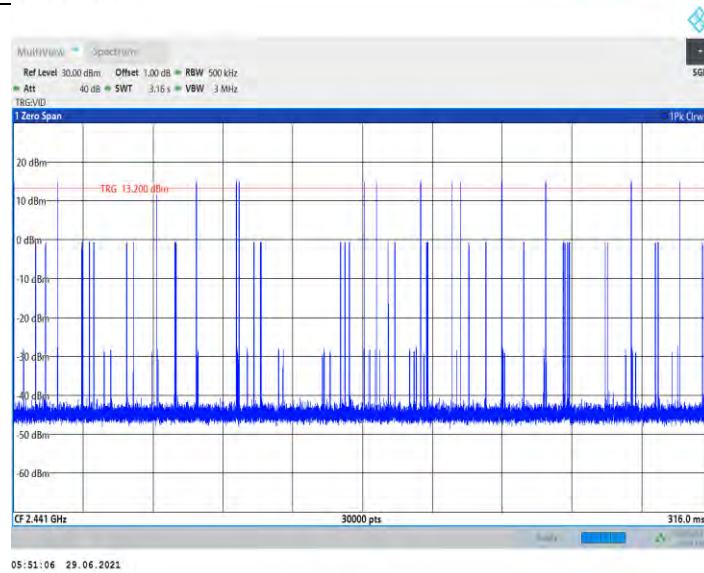
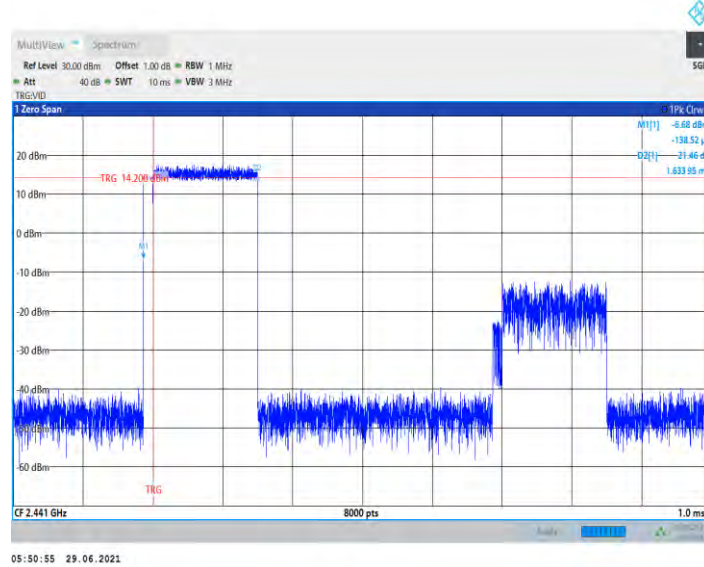
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3DH1 Ant1 Hop



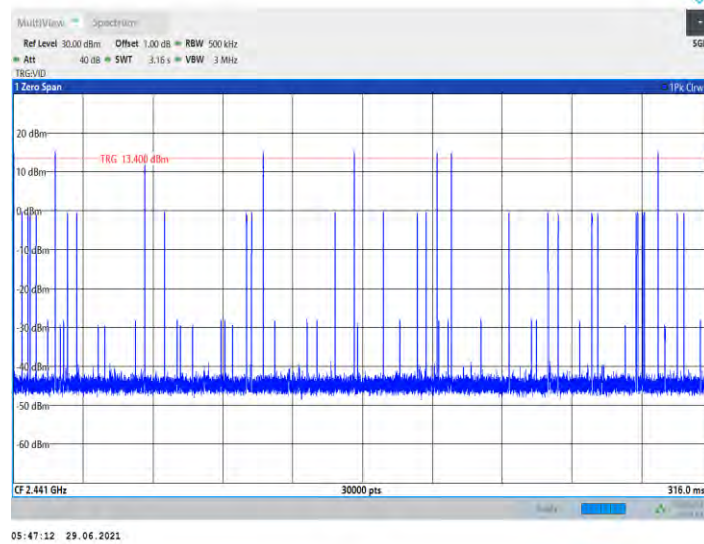
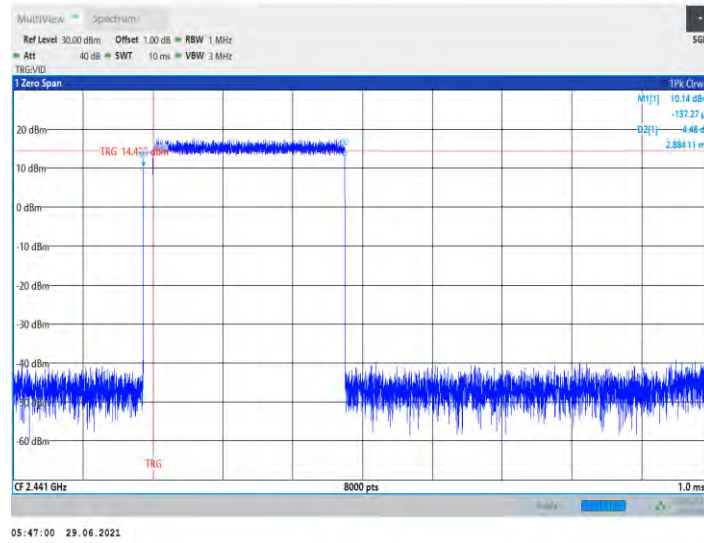
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3DH3 Ant1 Hop



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3DH5 Ant1 Hop



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**Number of hopping channels
Test Result**

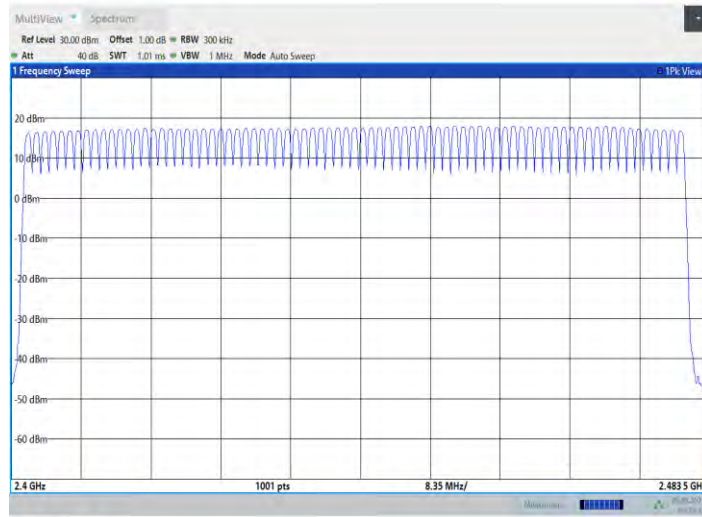
TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	>=15	PASS
2DH5	Ant1	Hop	79	>=15	PASS
3DH5	Ant1	Hop	79	>=15	PASS



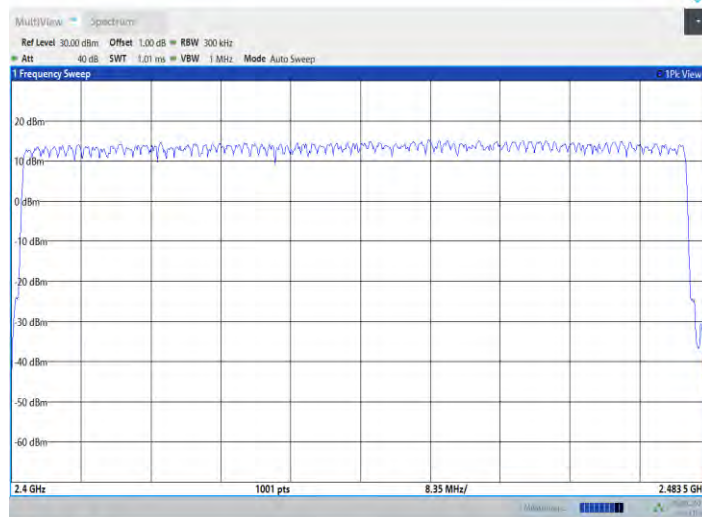
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Test Graphs

DH5_Ant1_Hop



2DH5 Ant1 Hop

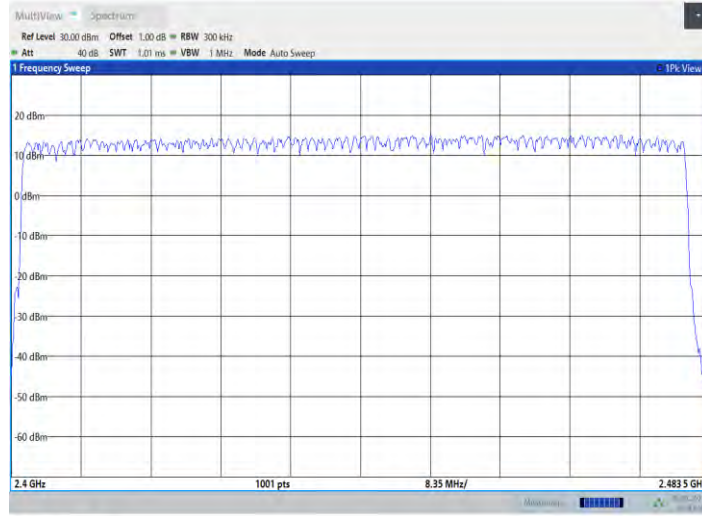


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3DH5 Ant1 Hop



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**Band edge measurements
Test Result**

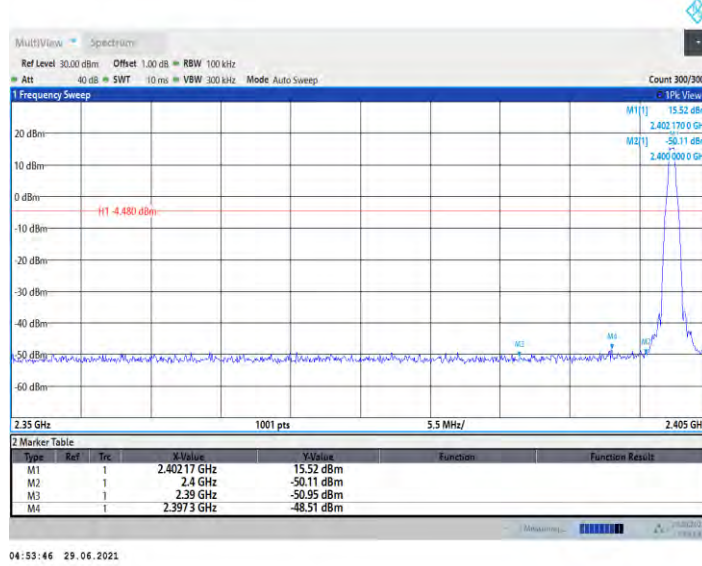
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	15.52	-48.51	<=-4.48	PASS
		High	2480	16.38	-48.81	<=-3.62	PASS
		Low	Hop_2402	15.59	-49.21	<=-4.41	PASS
		High	Hop_2480	17.11	-48.33	<=-2.89	PASS
2DH5	Ant1	Low	2402	12.79	-40.49	<=-7.21	PASS
		High	2480	12.61	-48.8	<=-7.39	PASS
		Low	Hop_2402	11.57	-48.2	<=-8.43	PASS
		High	Hop_2480	13.65	-48.76	<=-6.35	PASS
3DH5	Ant1	Low	2402	12.80	-39.92	<=-7.2	PASS
		High	2480	12.00	-48.19	<=-8	PASS
		Low	Hop_2402	11.59	-48.82	<=-8.41	PASS
		High	Hop_2480	12.87	-48.65	<=-7.13	PASS



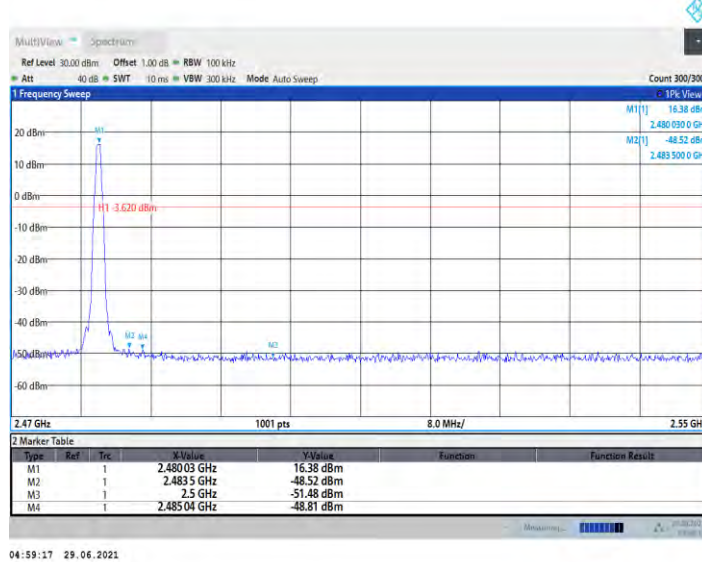
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Test Graphs

DH5_Ant1_Low_2402



DH5_Ant1_High_2480

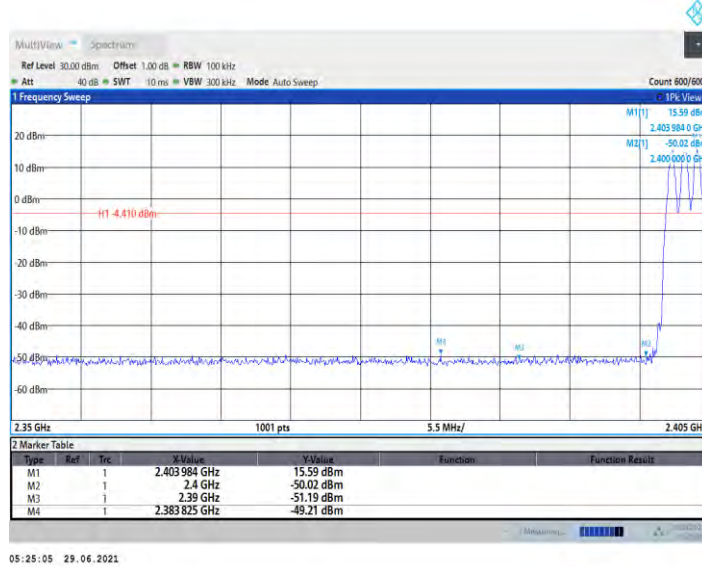


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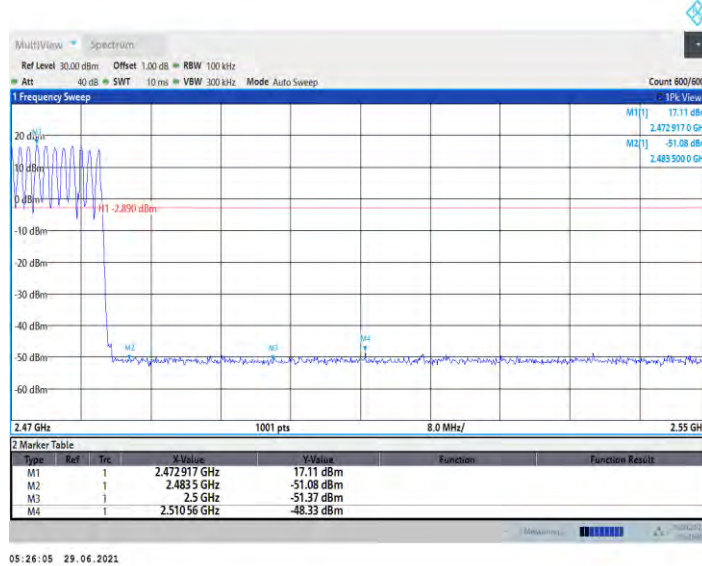
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DH5 Ant1 Low Hop 2402



DH5 Ant1 High Hop 2480

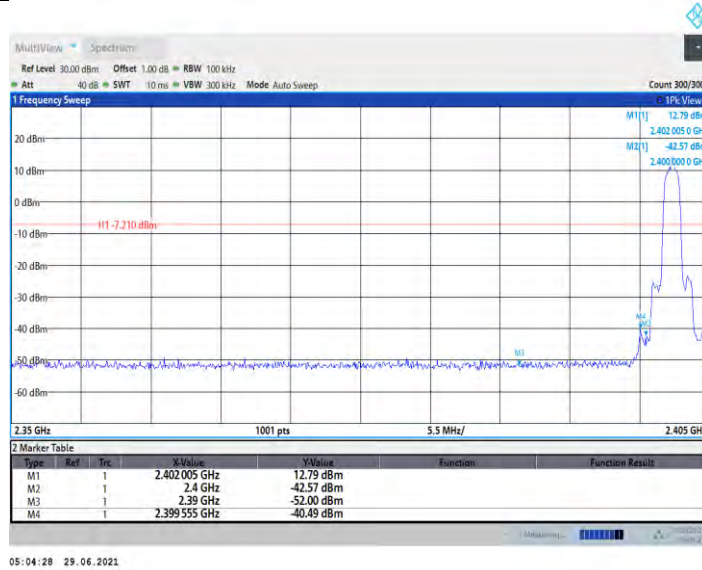


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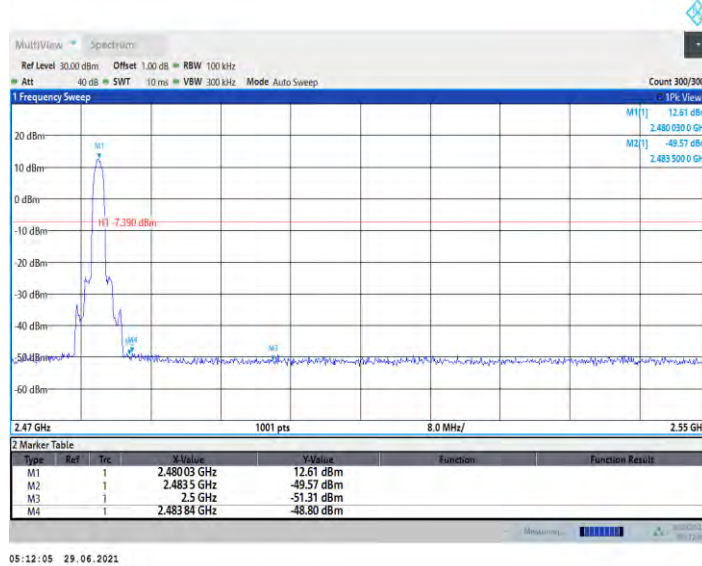
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2DH5 Ant1 Low 2402



2DH5 Ant1 High 2480

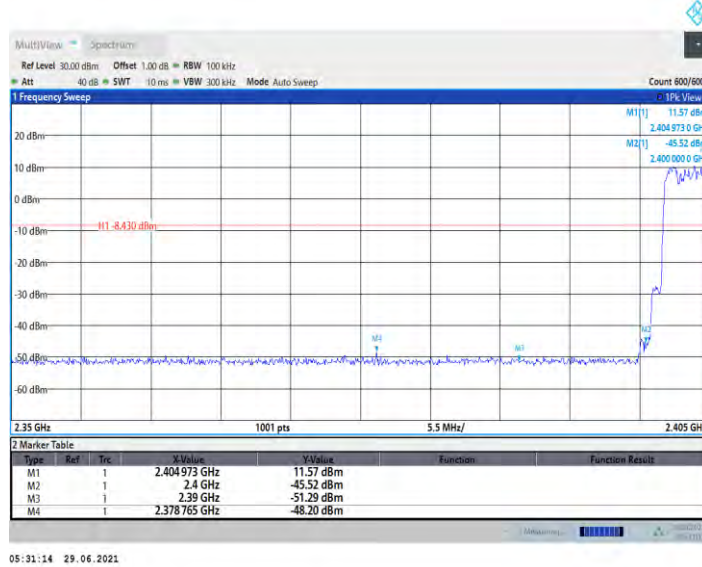


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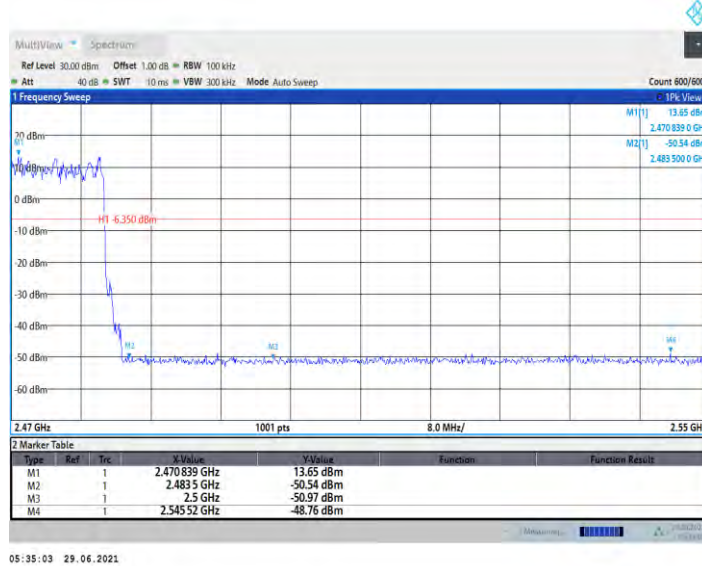
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2DH5 Ant1 Low Hop 2402



2DH5 Ant1 High Hop 2480

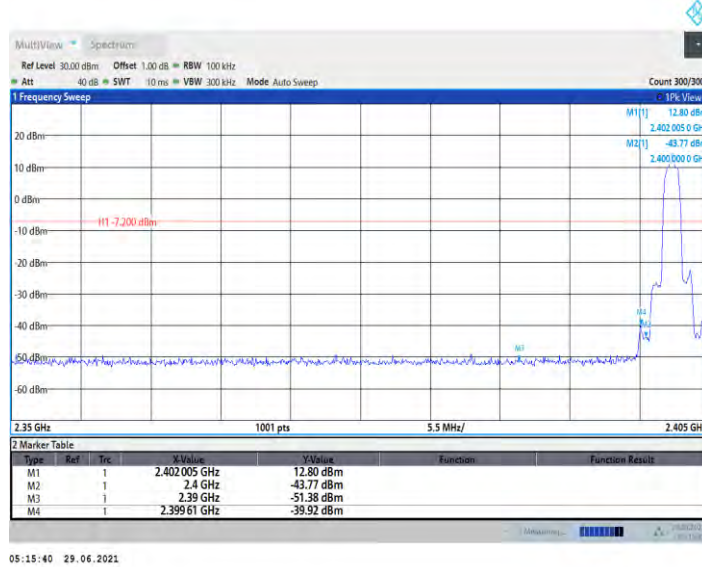


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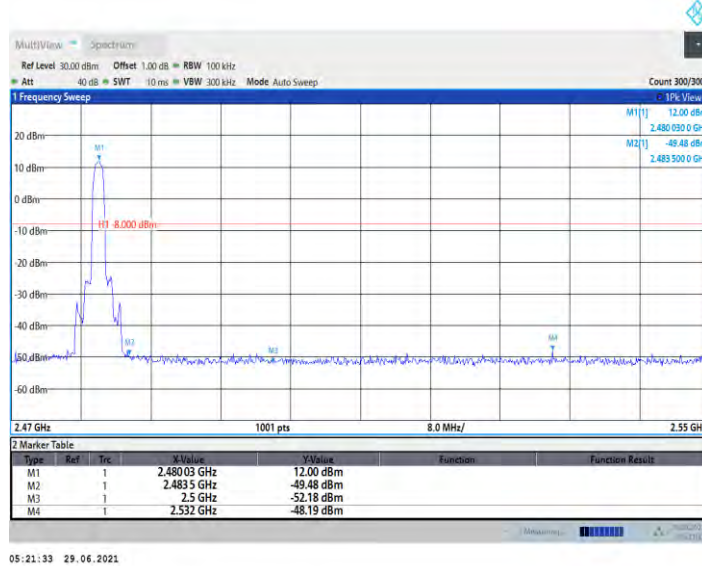
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3DH5 Ant1 Low 2402



3DH5 Ant1 High 2480

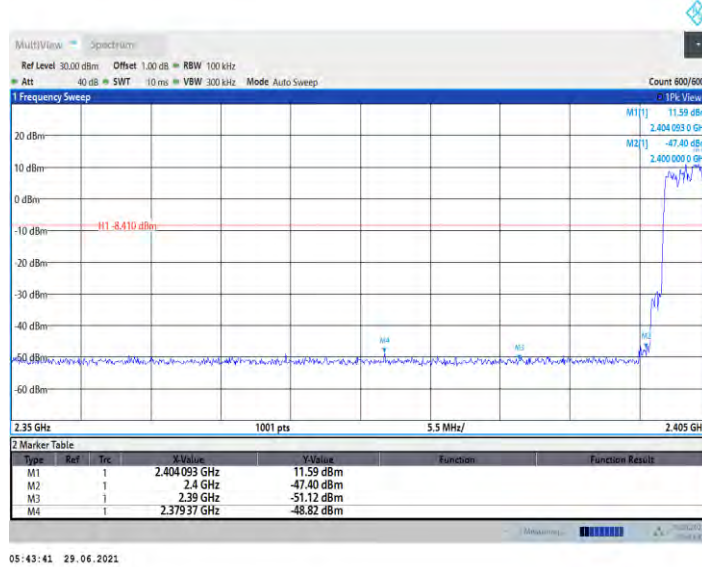


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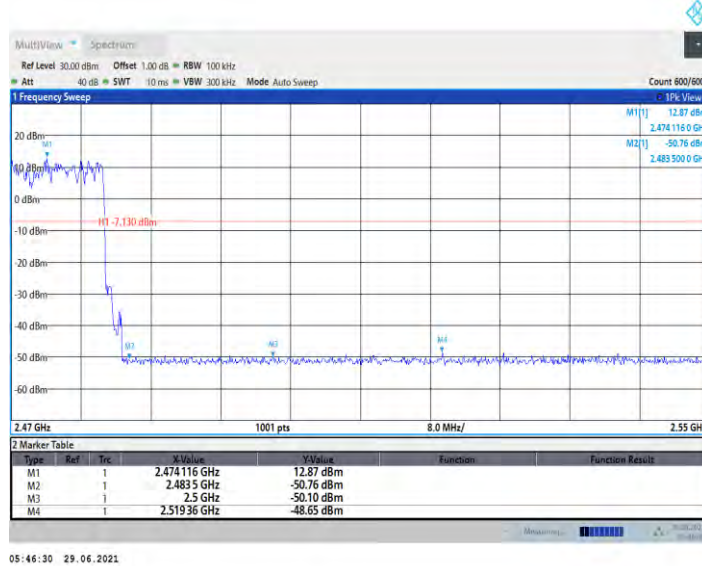
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3DH5 Ant1 Low Hop 2402



3DH5 Ant1 High Hop 2480



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**Conducted Spurious Emission
Test Result**

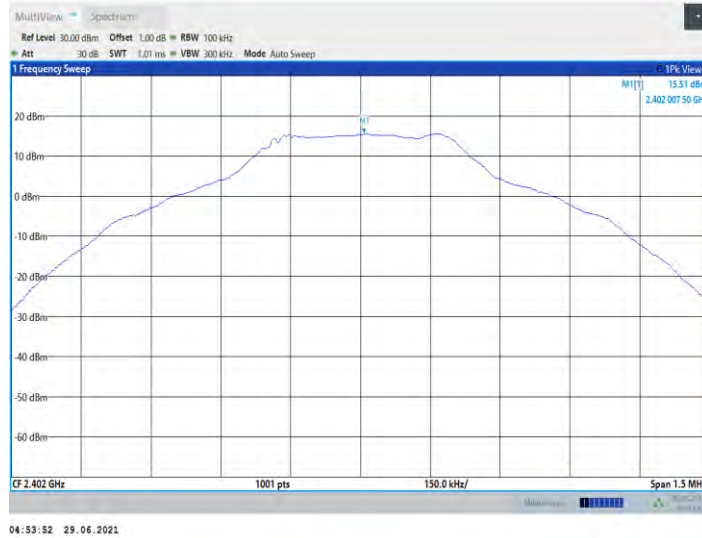
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	15.51	15.51	---	PASS
			30~1000	15.51	-64.21	<=-4.49	PASS
			1000~26500	15.51	-40.5	<=-4.49	PASS
		2441	Reference	17.19	17.19	---	PASS
			30~1000	17.19	-63.8	<=-2.81	PASS
			1000~26500	17.19	-39.05	<=-2.81	PASS
		2480	Reference	16.17	16.17	---	PASS
			30~1000	16.17	-64.51	<=-3.83	PASS
			1000~26500	16.17	-37.52	<=-3.83	PASS
2DH5	Ant1	2402	Reference	12.65	12.65	---	PASS
			30~1000	12.65	-64.3	<=-7.35	PASS
			1000~26500	12.65	-43.25	<=-7.35	PASS
		2441	Reference	14.19	14.19	---	PASS
			30~1000	14.19	-64.27	<=-5.81	PASS
			1000~26500	14.19	-44.74	<=-5.81	PASS
		2480	Reference	13.25	13.25	---	PASS
			30~1000	13.25	-64.42	<=-6.75	PASS
			1000~26500	13.25	-40.32	<=-6.75	PASS
3DH5	Ant1	2402	Reference	12.81	12.81	---	PASS
			30~1000	12.81	-64.24	<=-7.19	PASS
			1000~26500	12.81	-44.77	<=-7.19	PASS
		2441	Reference	14.23	14.23	---	PASS
			30~1000	14.23	-64.26	<=-5.77	PASS
			1000~26500	14.23	-44.61	<=-5.77	PASS
		2480	Reference	13.30	13.30	---	PASS
			30~1000	13.30	-65.12	<=-6.7	PASS
			1000~26500	13.30	-40.86	<=-6.7	PASS



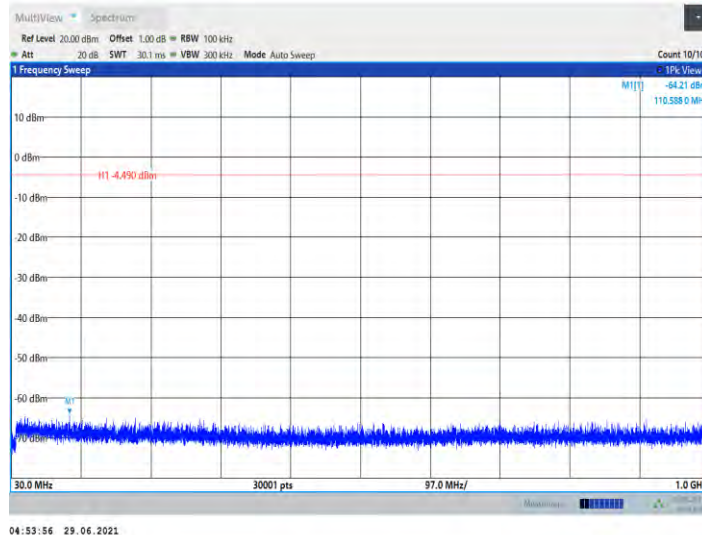
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Test Graphs

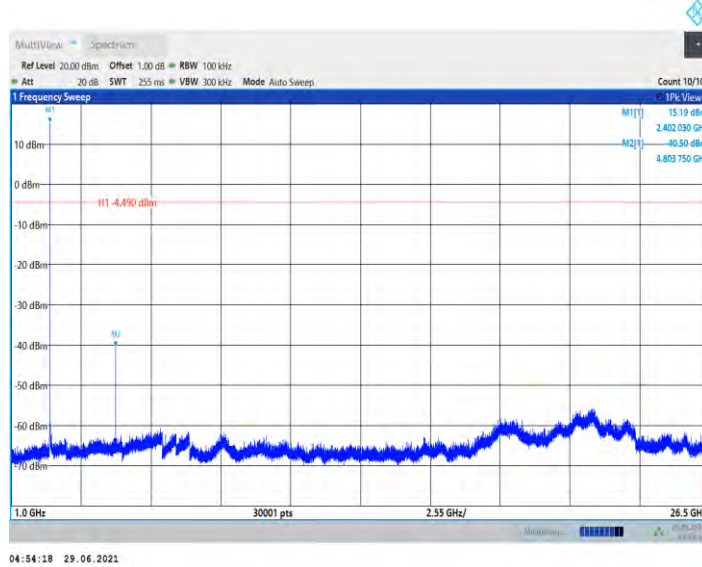
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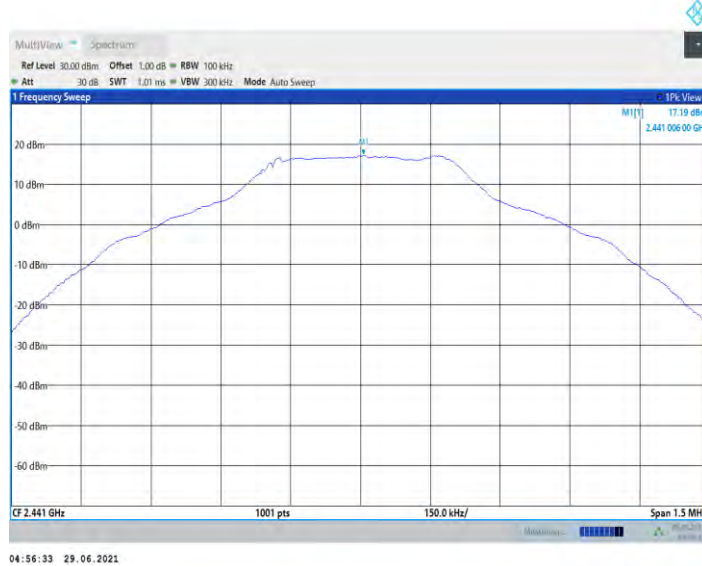
DH5_Ant1_2402_30~1000



DH5 Ant1 2402 1000~26500

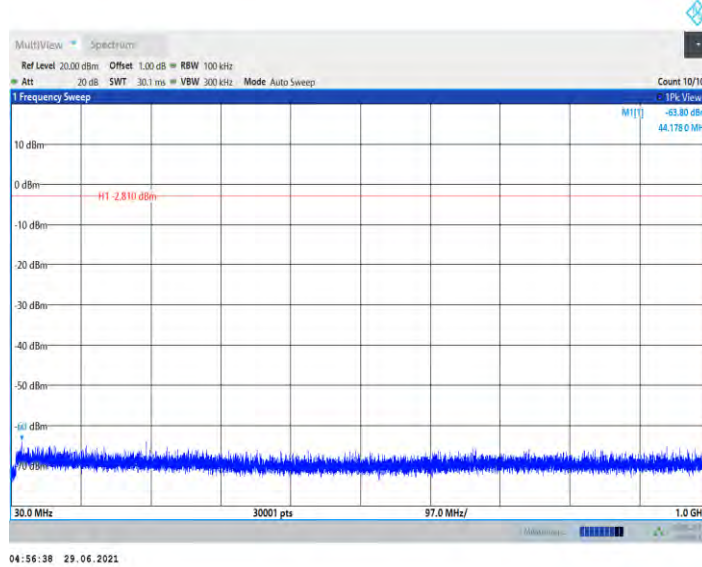


DH5 Ant1 2441 0~Reference

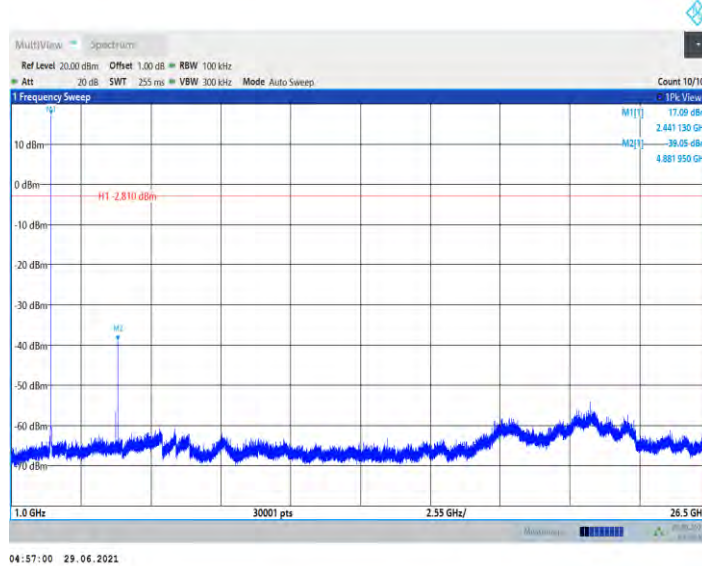


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DH5 Ant1 2441 30~1000



DH5 Ant1 2441 1000~26500

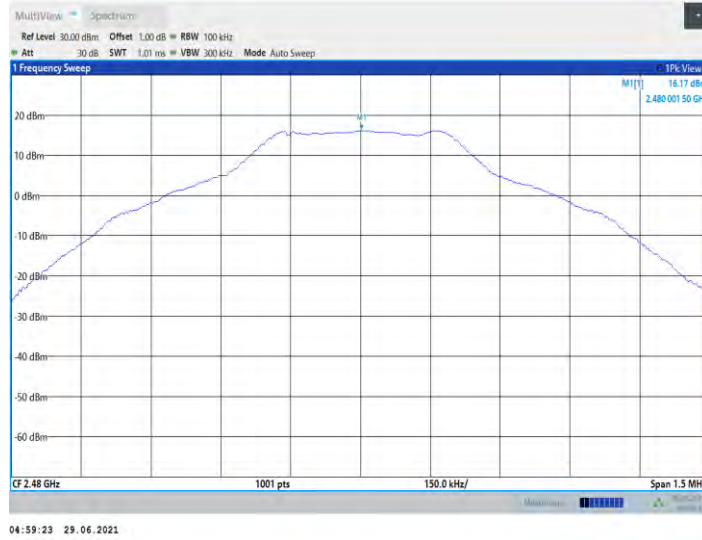


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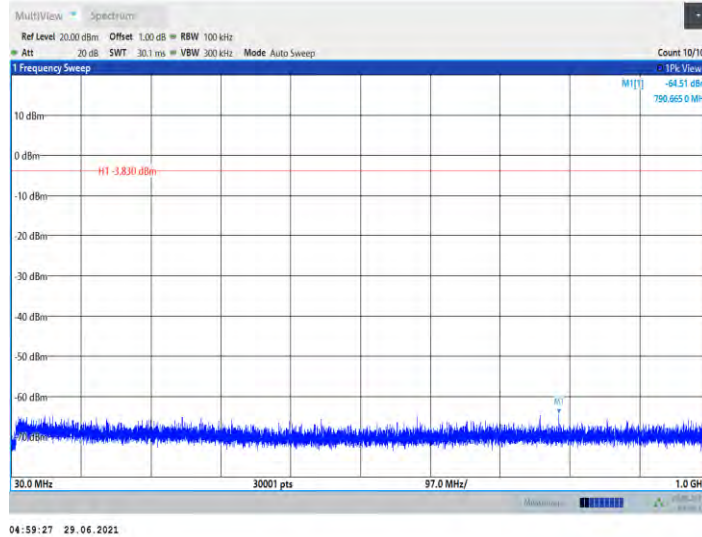
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DH5 Ant1 2480 0~Reference



DH5 Ant1 2480 30~1000

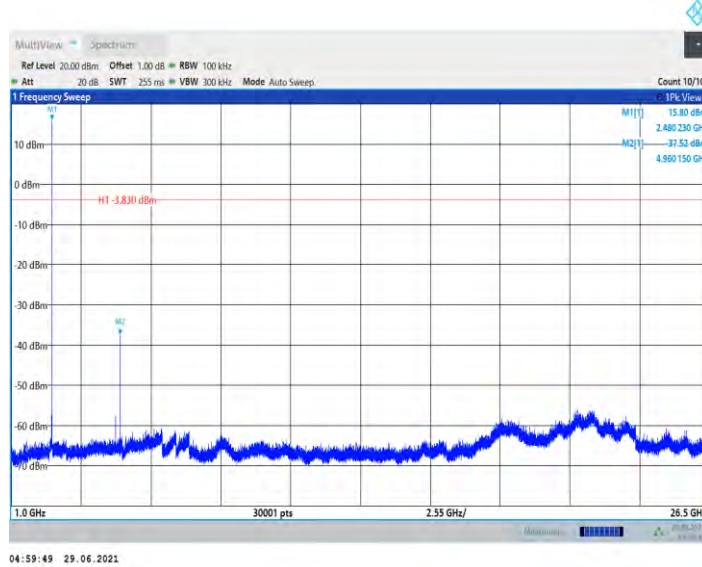


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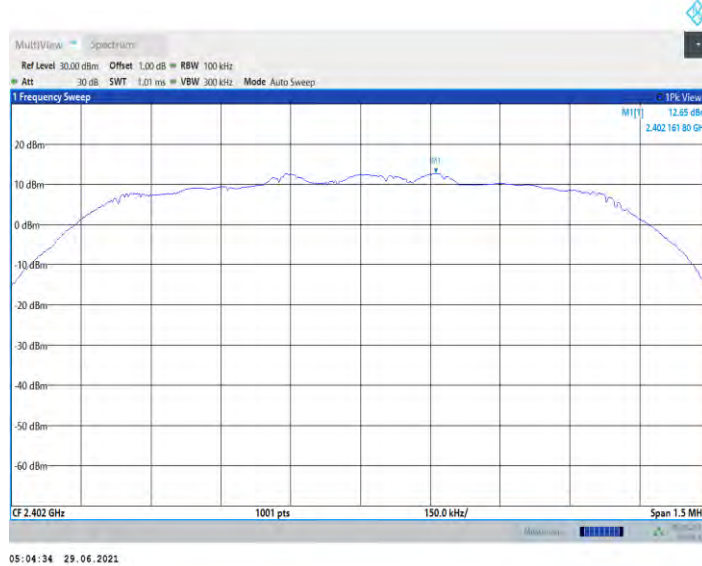
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DH5 Ant1 2480 1000~26500

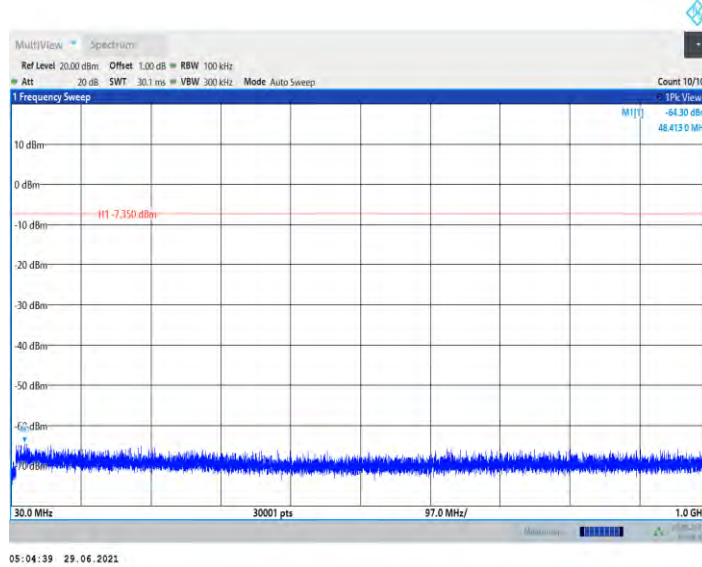


2DH5 Ant1 2402 0~Reference

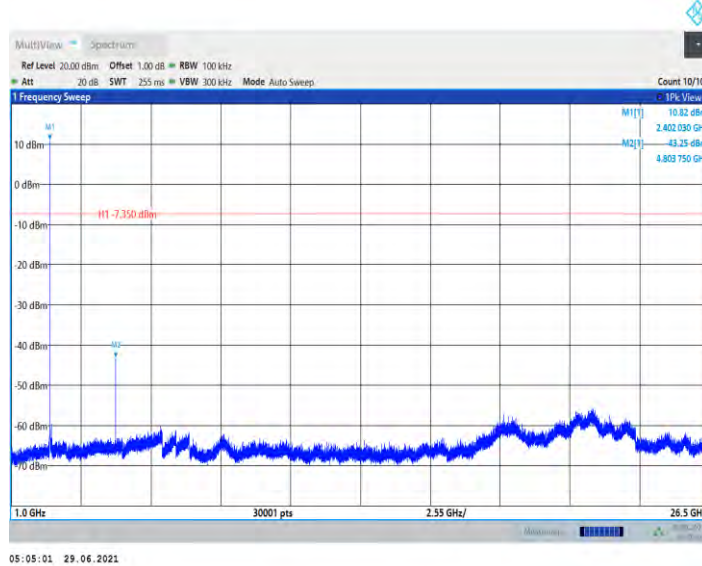


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2DH5 Ant1 2402 30~1000



2DH5 Ant1 2402 1000~26500

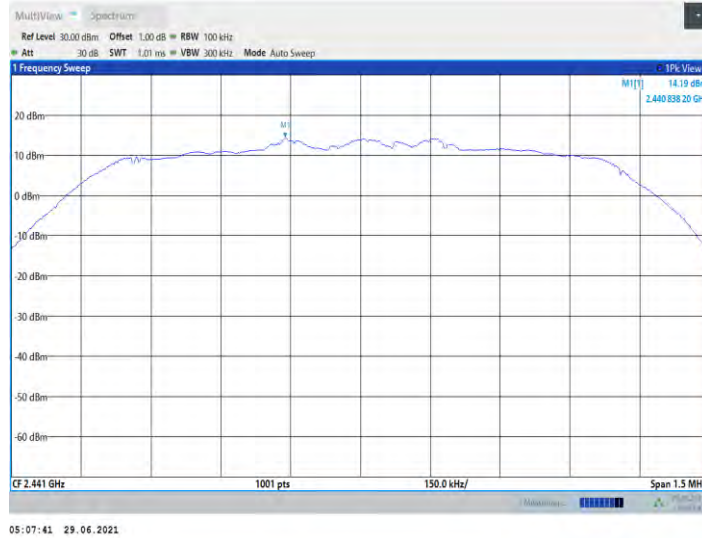


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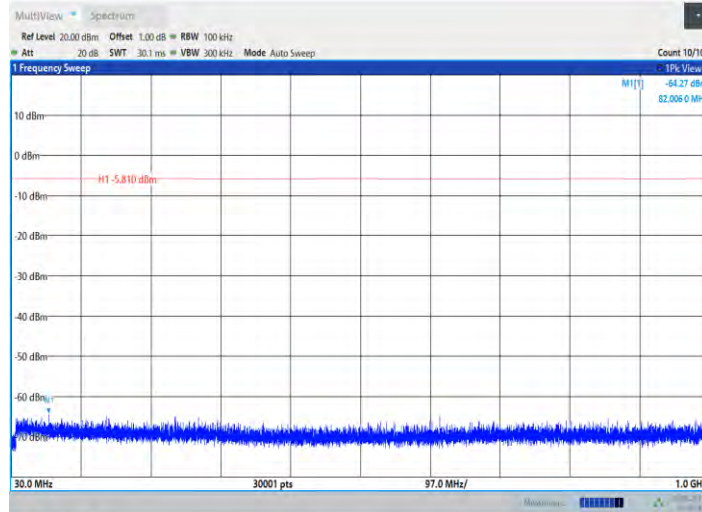
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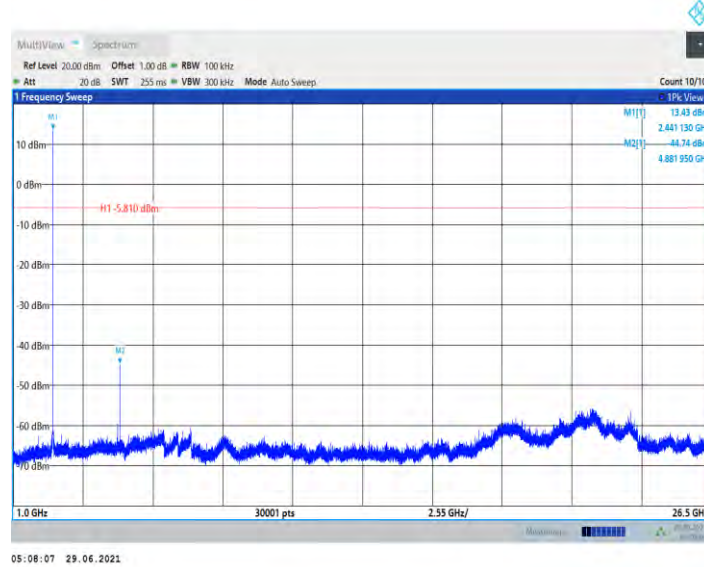


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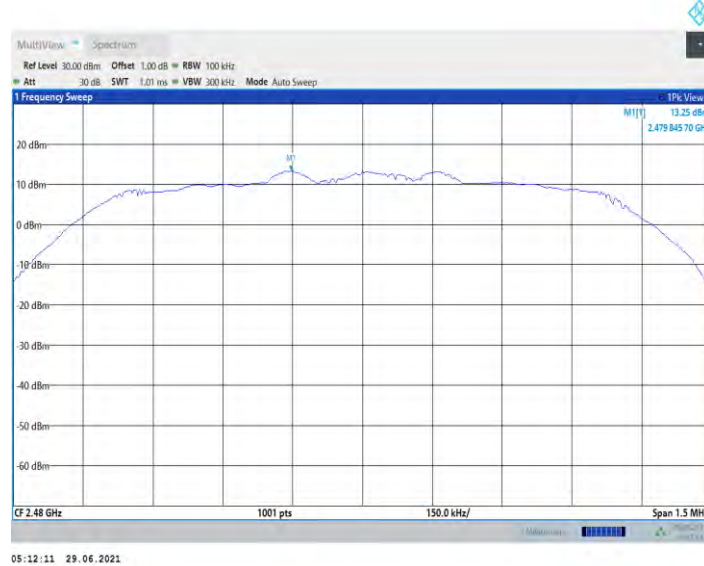


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2DH5 Ant1 2441 1000~26500

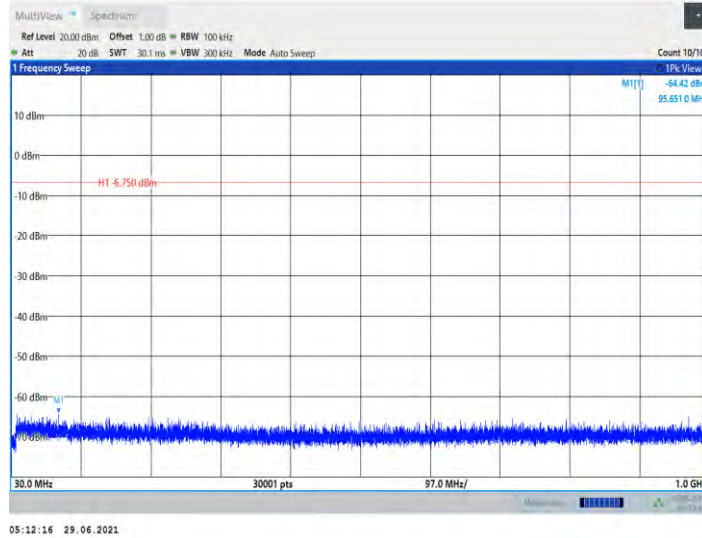


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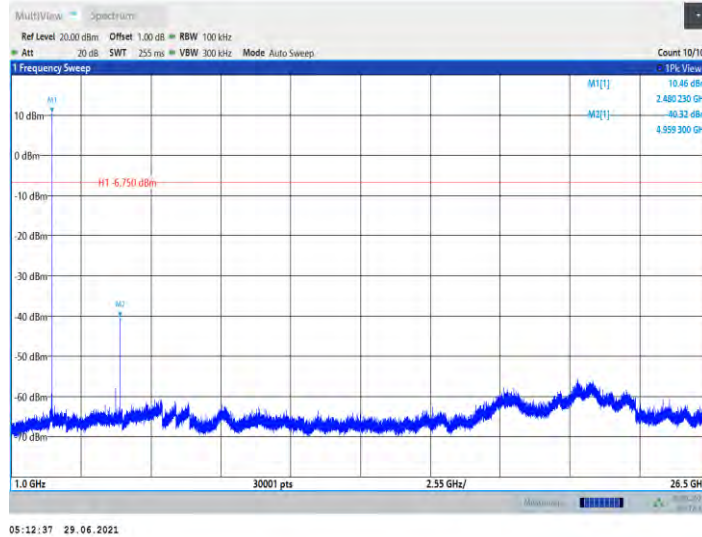


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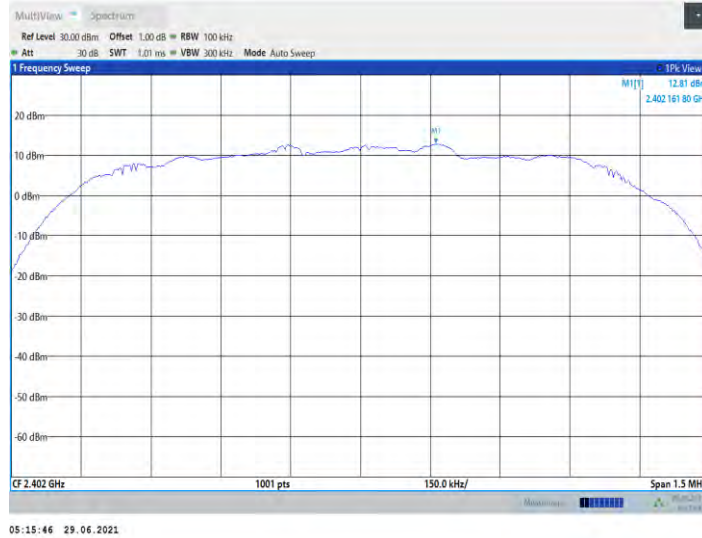


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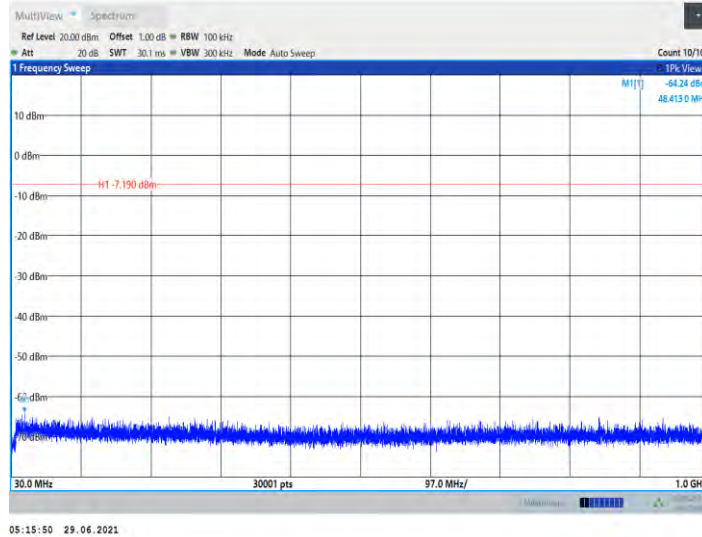


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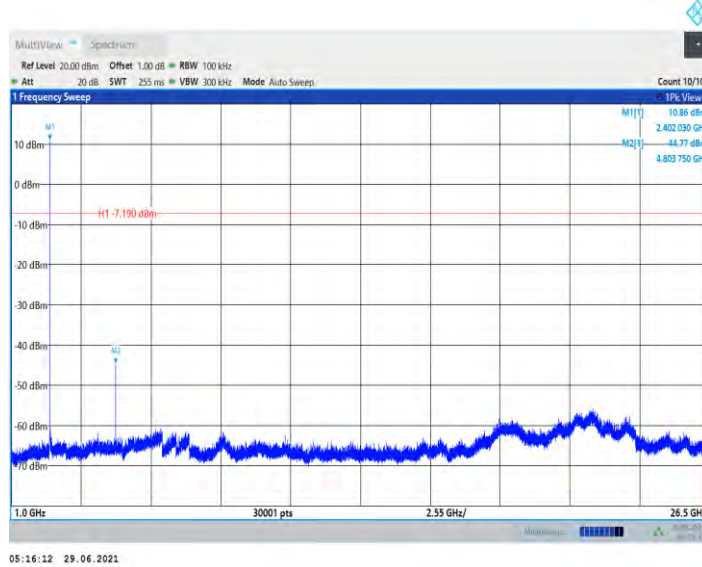


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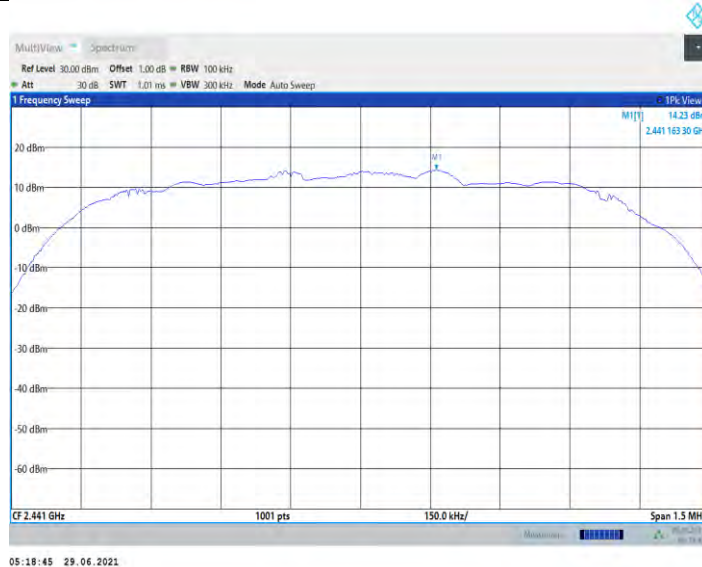
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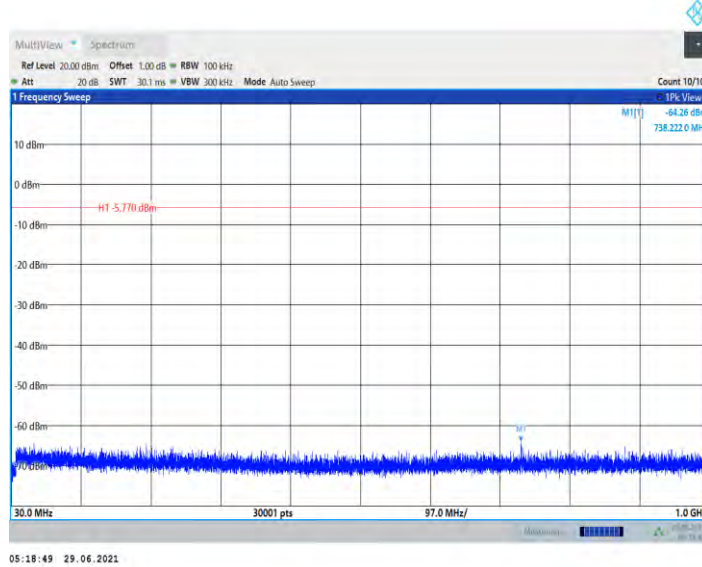


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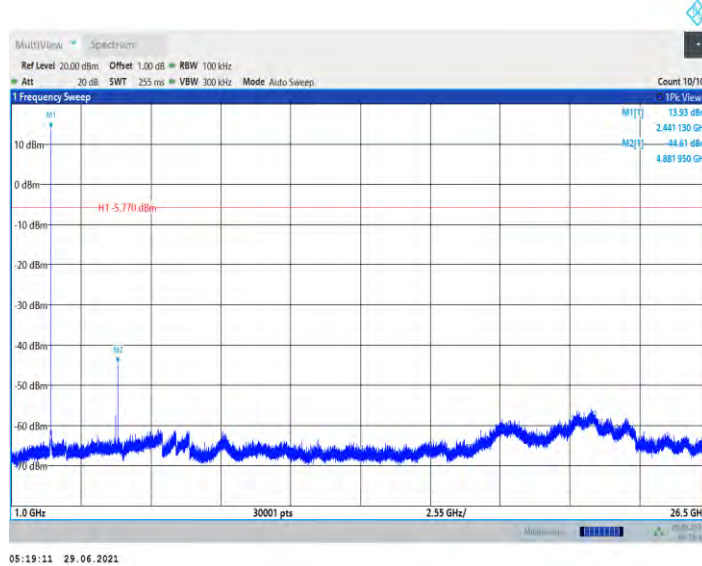
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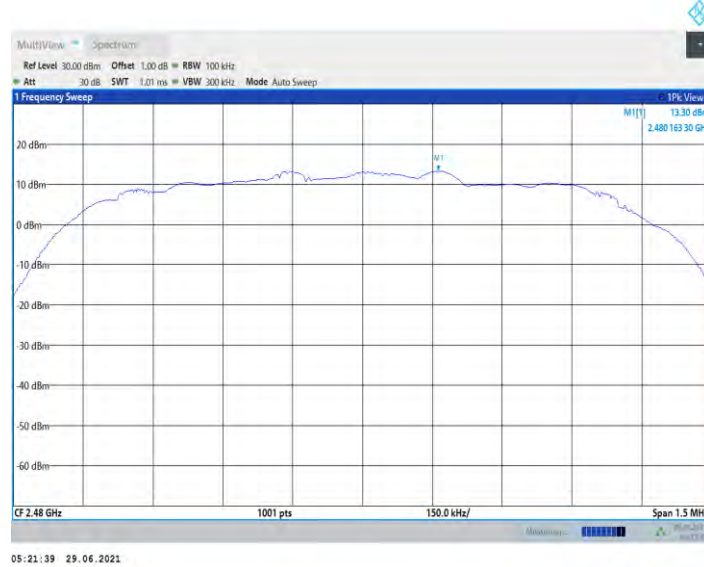


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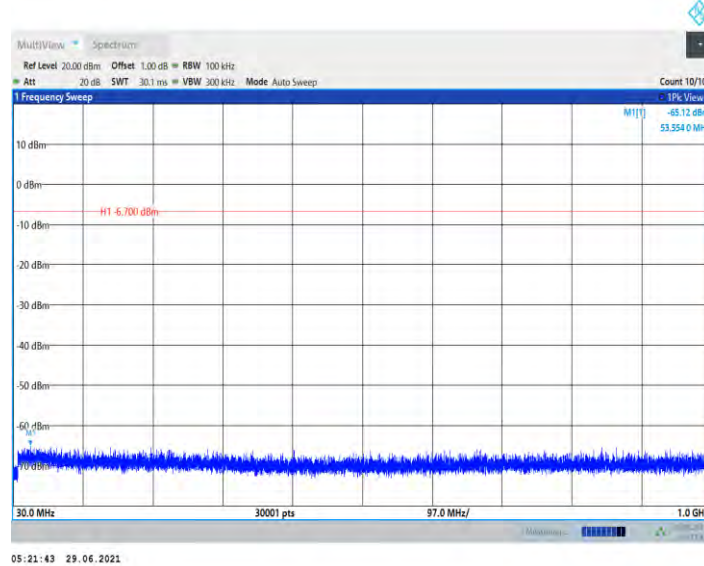
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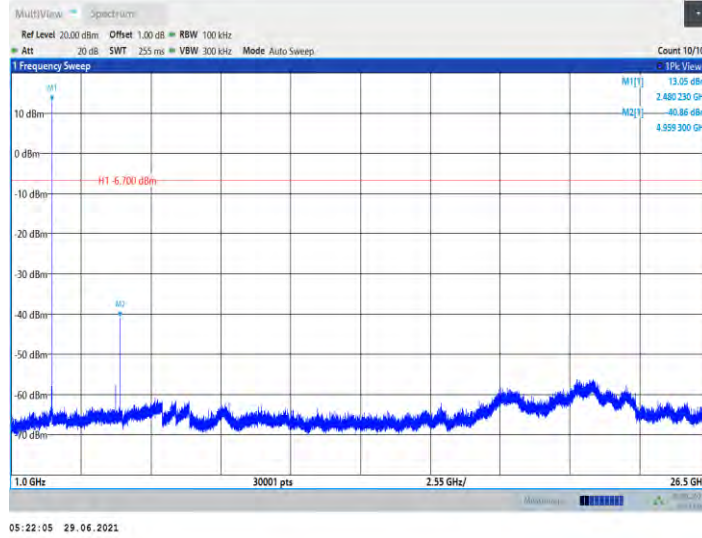


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**Duty Cycle
Test Result**

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.88	3.75	0.7680	76.80	1.15	---	PASS
		2441	2.88	3.75	0.7680	76.80	1.15	---	PASS
		2480	2.88	3.75	0.7680	76.80	1.15	---	PASS
2DH5	Ant1	2402	2.88	3.75	0.7680	76.80	1.15	---	PASS
		2441	2.88	3.75	0.7680	76.80	1.15	---	PASS
		2480	2.88	3.75	0.7680	76.80	1.15	---	PASS
3DH5	Ant1	2402	2.88	3.75	0.7680	76.80	1.15	---	PASS
		2441	2.88	3.75	0.7680	76.80	1.15	---	PASS
		2480	2.88	3.75	0.7680	76.80	1.15	---	PASS

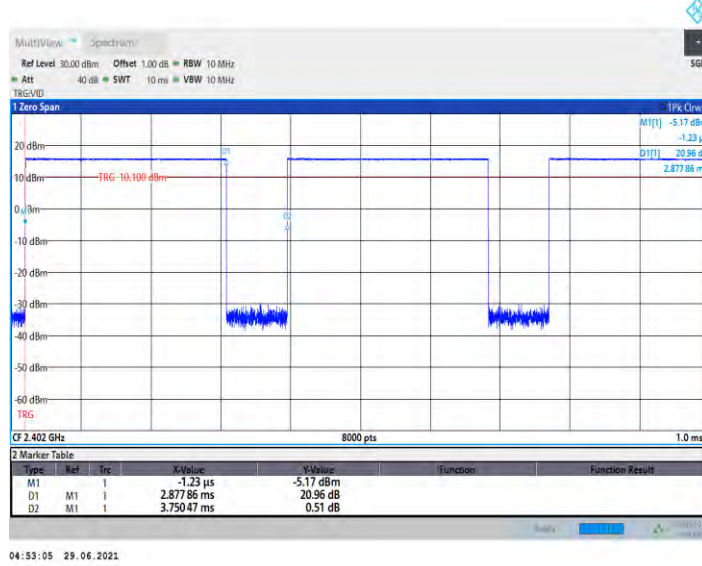


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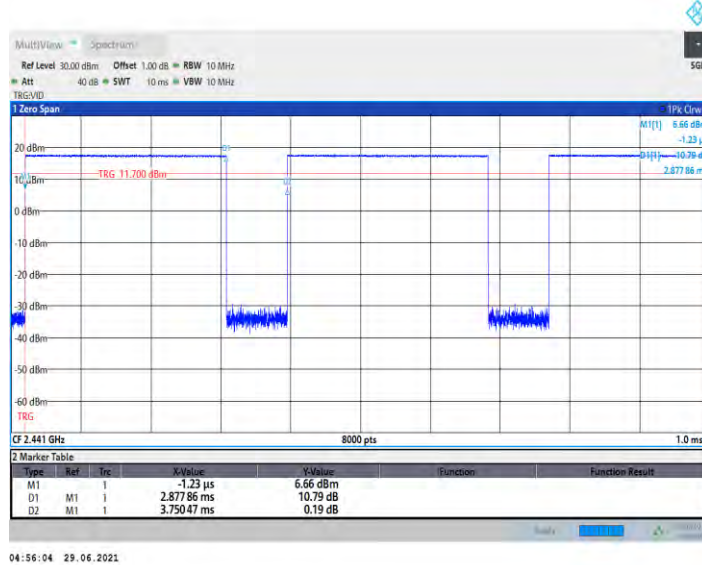
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Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441

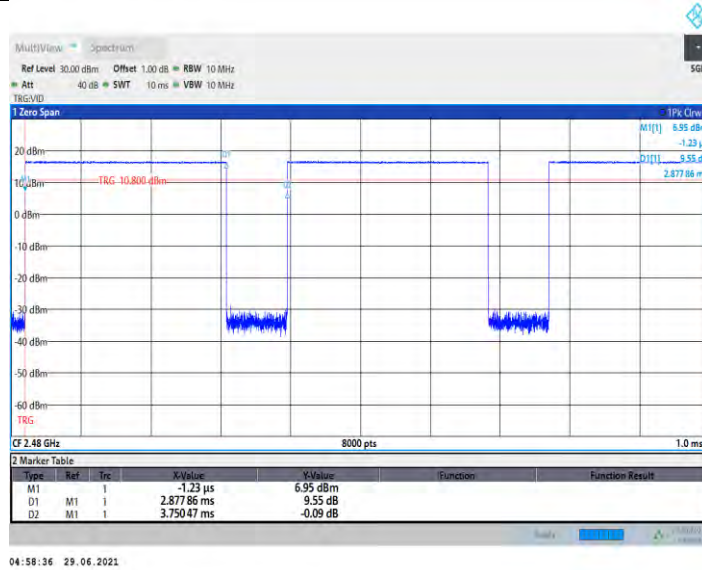


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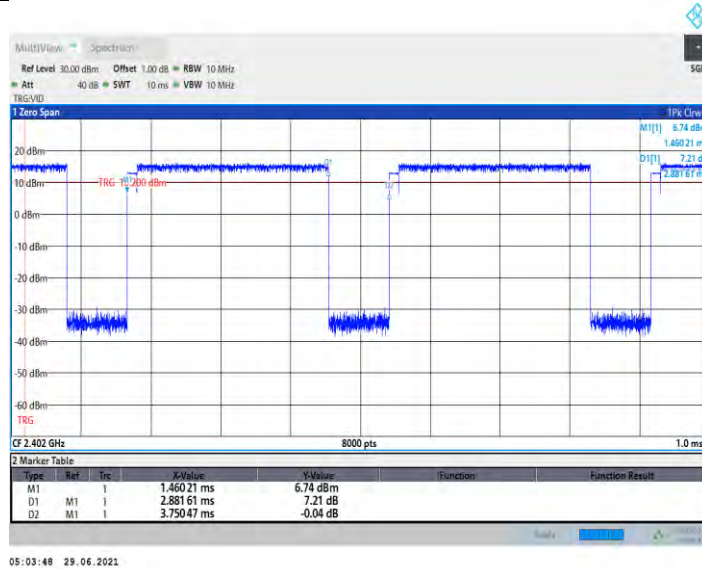
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DH5 Ant1 2480



04:58:36 29.06.2021

2DH5 Ant1 2402



05:03:48 29.06.2021

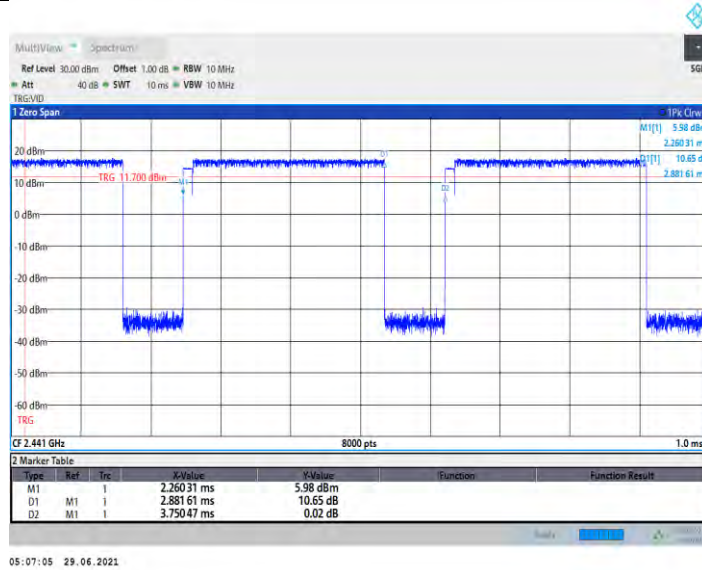


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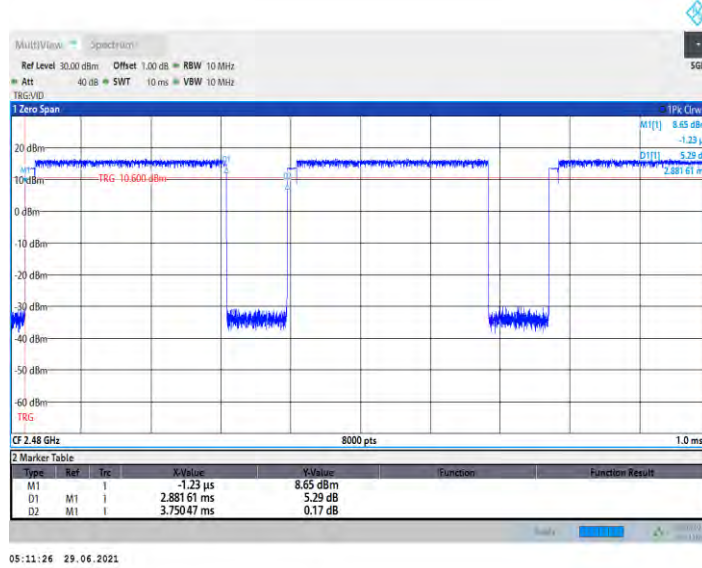
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2DH5 Ant1 2441



05:07:05 29.06.2021

2DH5 Ant1 2480



05:11:26 29.06.2021

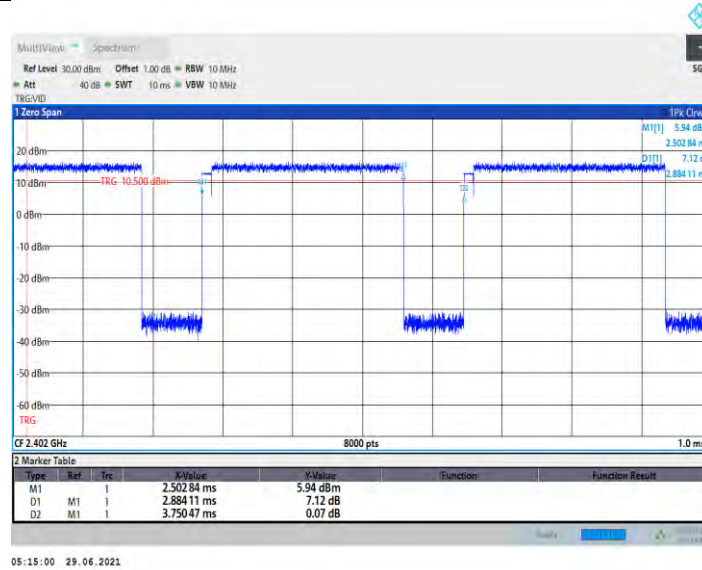


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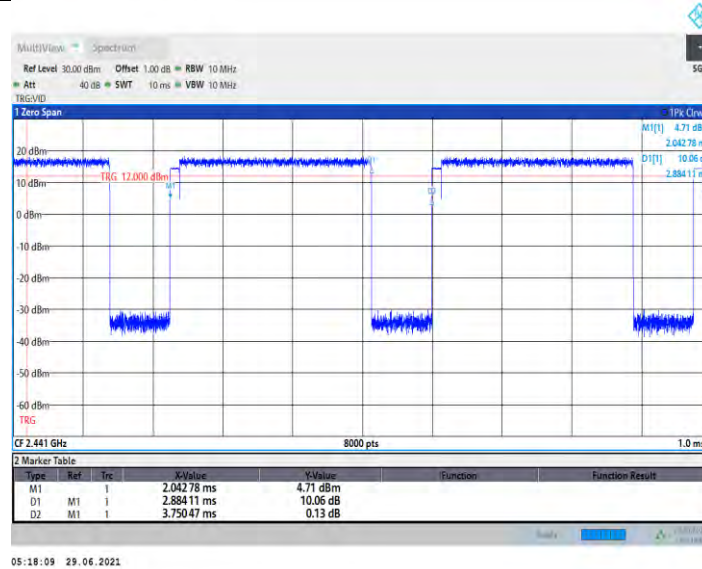
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3DH5 Ant1 2402



3DH5 Ant1 2441

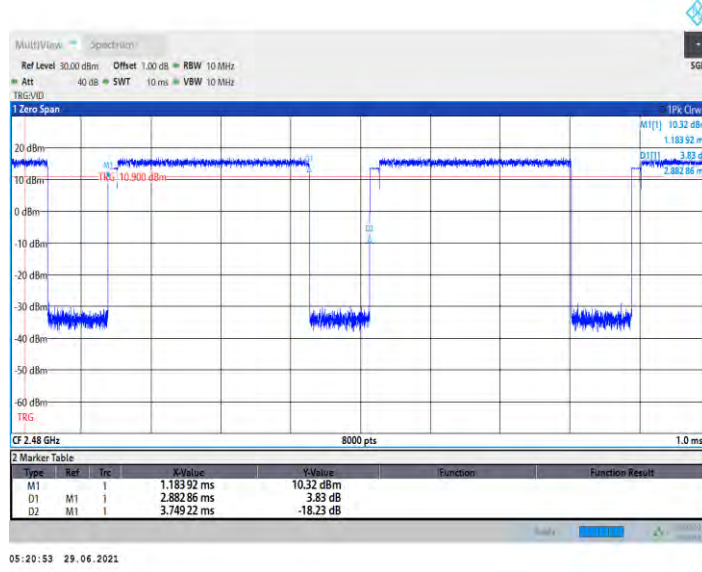


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3DH5 Ant1 2480



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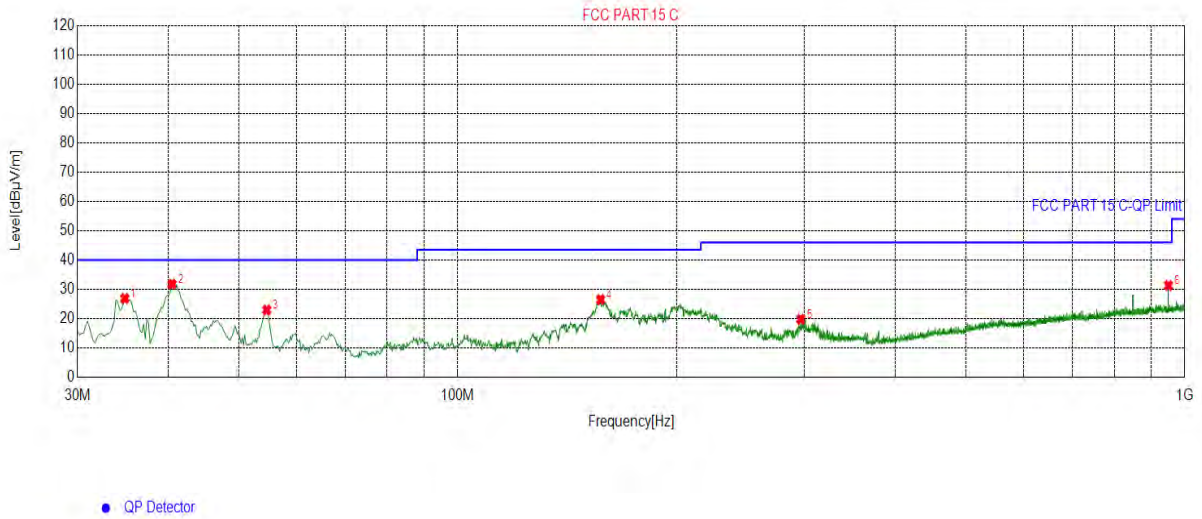
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Radiated Spurious Emission

Radiated Emission below 1GHz

Charge + Transmitting

Test Graph



Suspected List

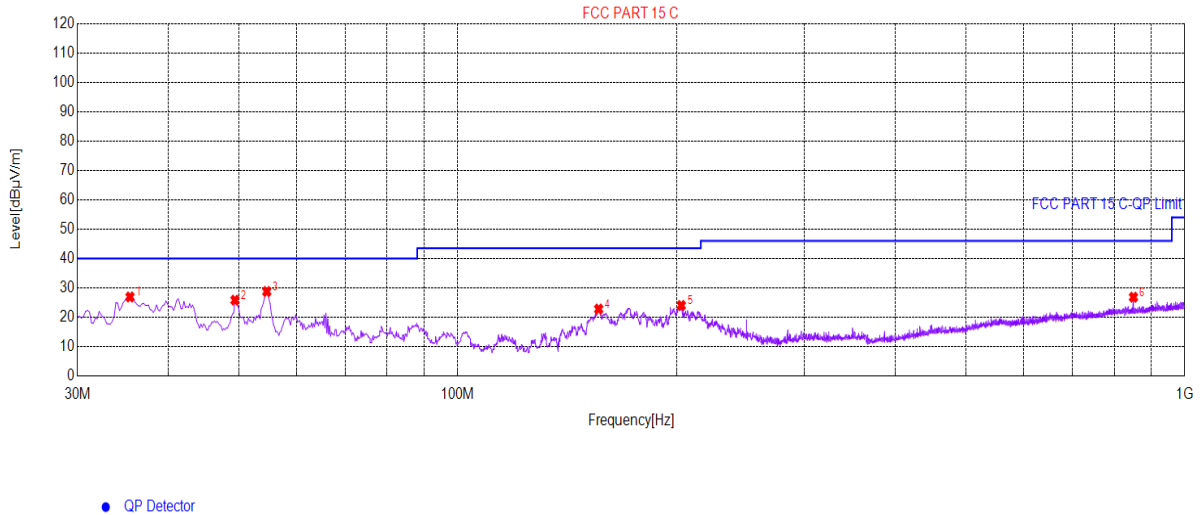
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	34.8510	26.87	-23.95	40.00	13.13	241	108	Horizontal
2	40.4781	31.74	-22.26	40.00	8.26	258	35	Horizontal
3	54.6429	22.96	-22.05	40.00	17.04	229	264	Horizontal
4	157.289	26.49	-25.62	43.50	17.01	284	250	Horizontal
5	296.415	19.82	-19.43	46.00	26.18	269	53	Horizontal
6	949.938	31.31	-7.23	46.00	14.69	231	144	Horizontal

Final Data List



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Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	35.4331	26.90	-23.81	40.00	13.10	178	332	Vertical
2	49.4039	25.82	-21.37	40.00	14.18	195	332	Vertical
3	54.6429	28.76	-22.05	40.00	11.24	184	10	Vertical
4	156.319	22.79	-25.65	43.50	20.71	187	329	Vertical
5	203.082	24.02	-22.28	43.50	19.48	201	308	Vertical
6	850.202	26.83	-8.54	46.00	19.17	236	219	Vertical

Final Data List



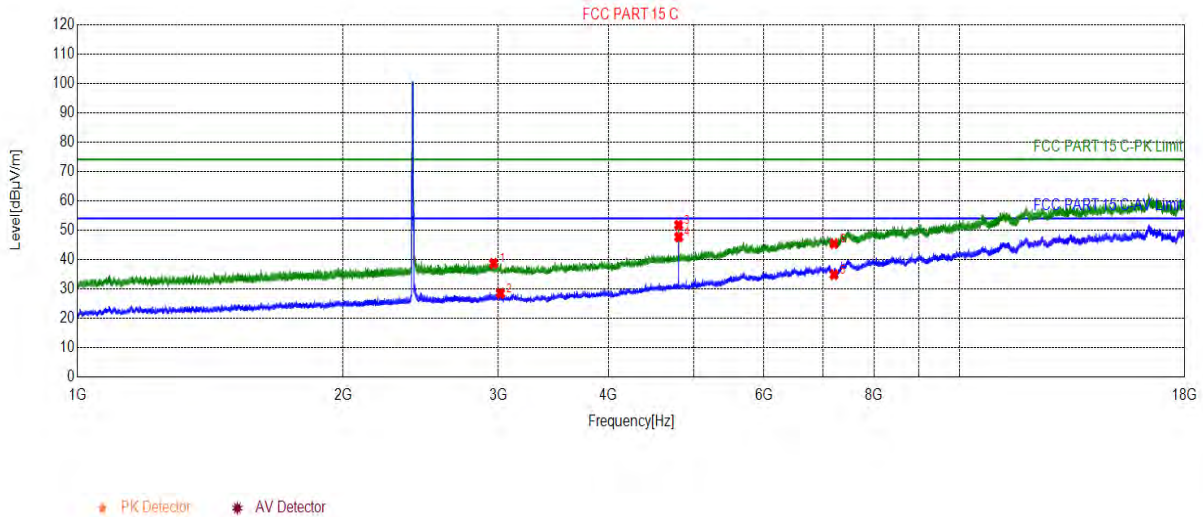
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Transmitter Emission above 1GHz

GFSK_Channel 0

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2963.29	38.68	7.84	74.00	35.32	362	110	Horizontal
2	3017.40	28.48	-23.82	54.00	25.52	222	88	Horizontal
3	4804.27	51.70	-18.29	74.00	22.30	185	218	Horizontal
4	4804.87	47.65	-18.29	54.00	6.35	252	203	Horizontal
5	7206.00	34.84	-10.65	54.00	19.16	169	160	Horizontal
6	7206.00	45.41	-10.65	74.00	28.59	188	291	Horizontal

Final Data List

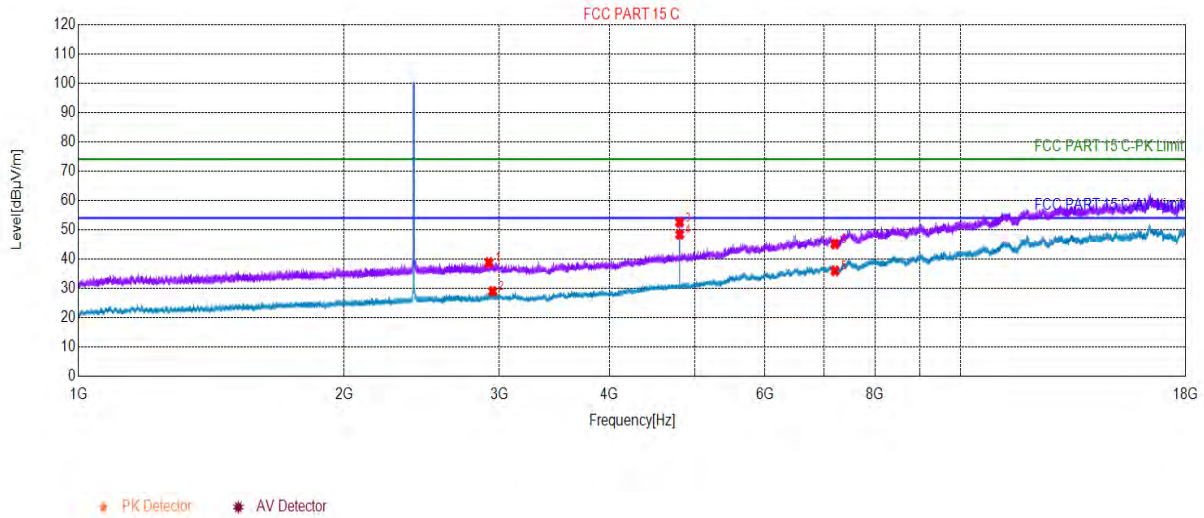


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GFSK_Channel 0

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2920.69	38.77	7.86	74.00	35.23	263	359	Vertical
2	2949.29	28.98	7.98	54.00	25.02	242	136	Vertical
3	4803.67	52.49	-18.29	74.00	21.51	288	174	Vertical
4	4804.87	48.33	-18.29	54.00	5.67	212	188	Vertical
5	7206.00	35.96	-10.65	54.00	18.04	263	277	Vertical
6	7206.00	45.10	-10.65	74.00	28.90	272	305	Vertical

Final Data List



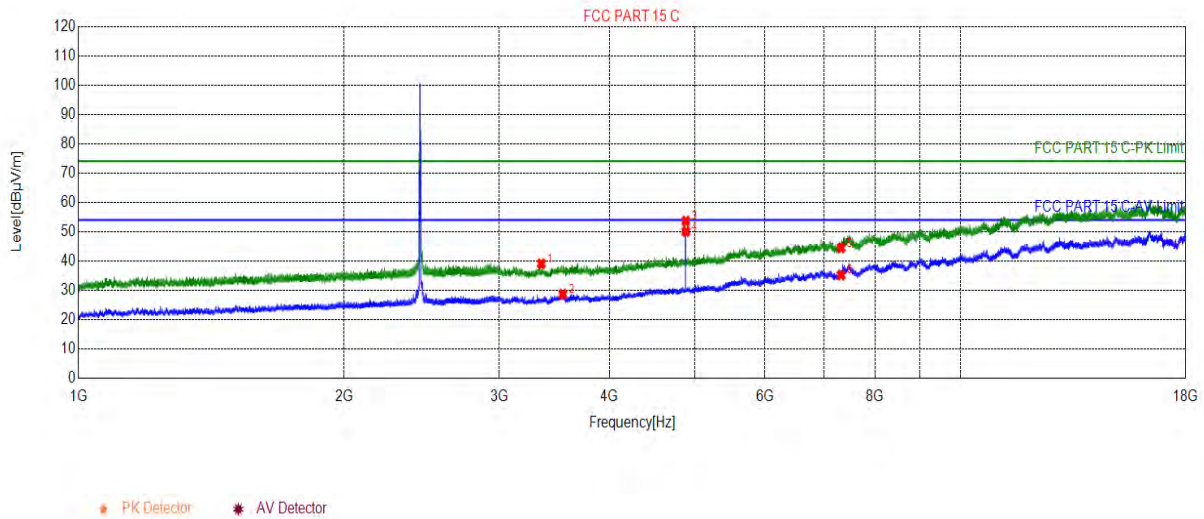
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GFSK_Channel 39

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3347.41	39.07	-23.15	74.00	34.93	154	131	Horizontal
2	3541.82	28.68	-22.73	54.00	25.32	241	275	Horizontal
3	4882.27	53.64	-17.99	74.00	20.36	246	217	Horizontal
4	4882.87	50.08	-17.99	54.00	3.92	195	231	Horizontal
5	7323.00	44.51	-10.41	74.00	29.49	177	348	Horizontal
6	7323.00	35.24	-10.41	54.00	18.76	249	56	Horizontal

Final Data List



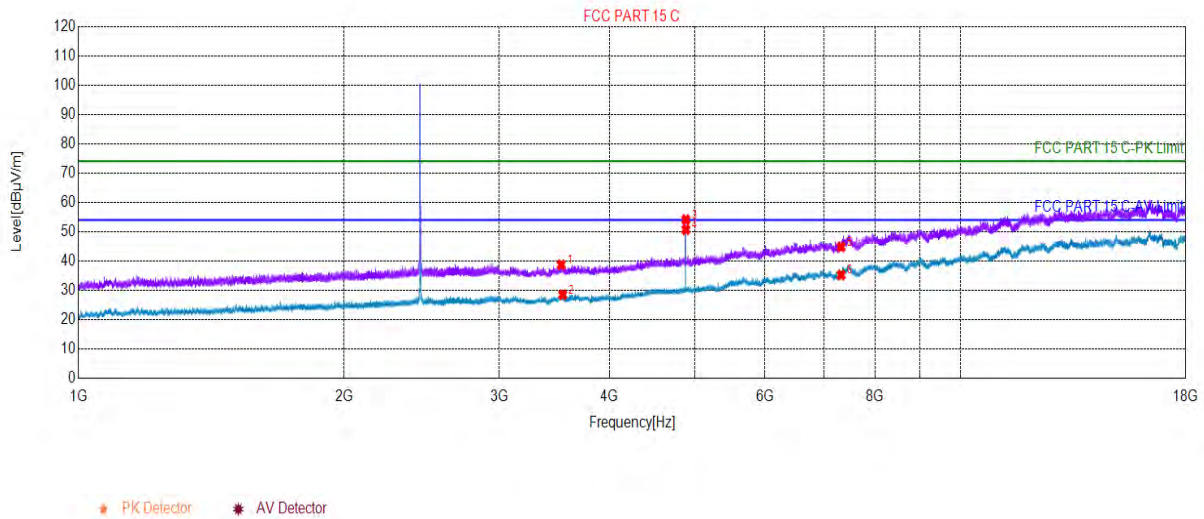
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GFSK_Channel 39

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3526.22	38.70	-22.55	74.00	35.30	152	305	Vertical
2	3540.62	28.50	-22.72	54.00	25.50	218	187	Vertical
3	4881.67	54.11	-17.99	74.00	19.89	342	187	Vertical
4	4882.27	50.69	-17.99	54.00	3.31	330	187	Vertical
5	7323.00	44.83	-10.41	74.00	29.17	215	332	Vertical
6	7323.00	35.24	-10.41	54.00	18.76	118	334	Vertical

Final Data List



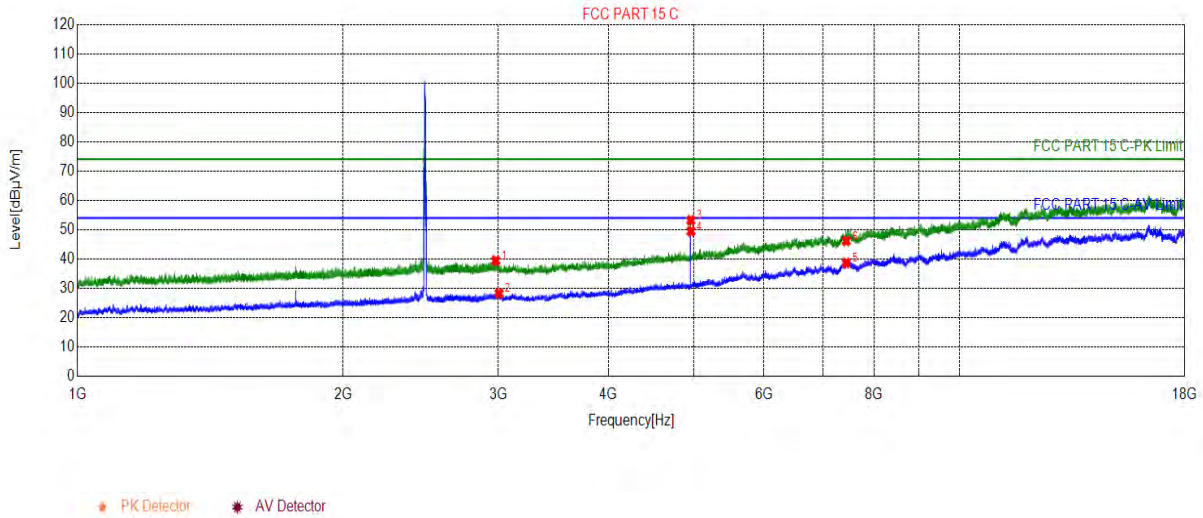
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GFSK_Channel 78

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2979.89	39.39	7.90	74.00	34.61	302	174	Horizontal
2	3005.40	28.29	-23.86	54.00	25.71	182	247	Horizontal
3	4959.67	53.18	-17.38	74.00	20.82	252	218	Horizontal
4	4960.27	49.44	-17.38	54.00	4.56	186	232	Horizontal
5	7440.00	38.63	-9.00	54.00	15.37	122	44	Horizontal
6	7440.00	46.17	-9.00	74.00	27.83	163	290	Horizontal

Final Data List



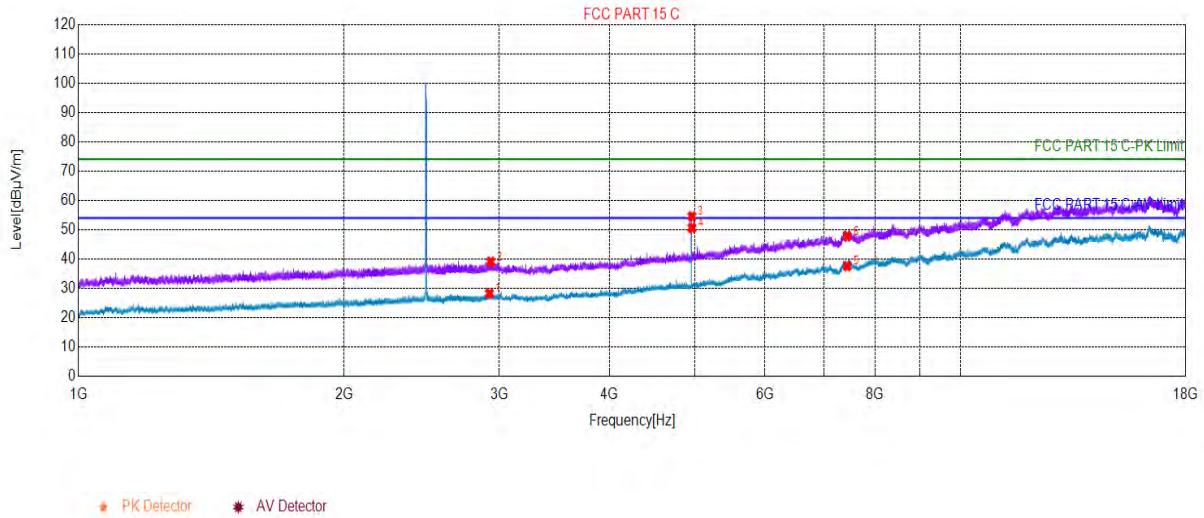
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GFSK_Channel 78

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2924.19	28.23	7.92	54.00	25.77	172	277	Vertical
2	2934.59	39.04	7.97	74.00	34.96	163	163	Vertical
3	4960.27	54.53	-17.38	74.00	19.47	263	189	Vertical
4	4960.87	50.61	-17.38	54.00	3.39	284	189	Vertical
5	7440.00	37.57	-9.00	54.00	16.43	209	358	Vertical
6	7440.00	47.84	-9.00	74.00	26.16	274	277	Vertical

Final Data List

Remark:

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
Factor= Antenna Factor + Cable Factor – Preamplifier Factor
Final Test Level =Receiver Reading + Factor
- 2) Scan from 9kHz to 25GHz, the disturbance between 9KHz to 30MHz and 18GHz to 25GHz was very low, and the above harmonics were the highest point could be found when testing, The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3)As shown in this section, 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. So, only the peak measurements were shown in the report.
- 4) All Modes have been tested, but only the worst case data displayed in this report.



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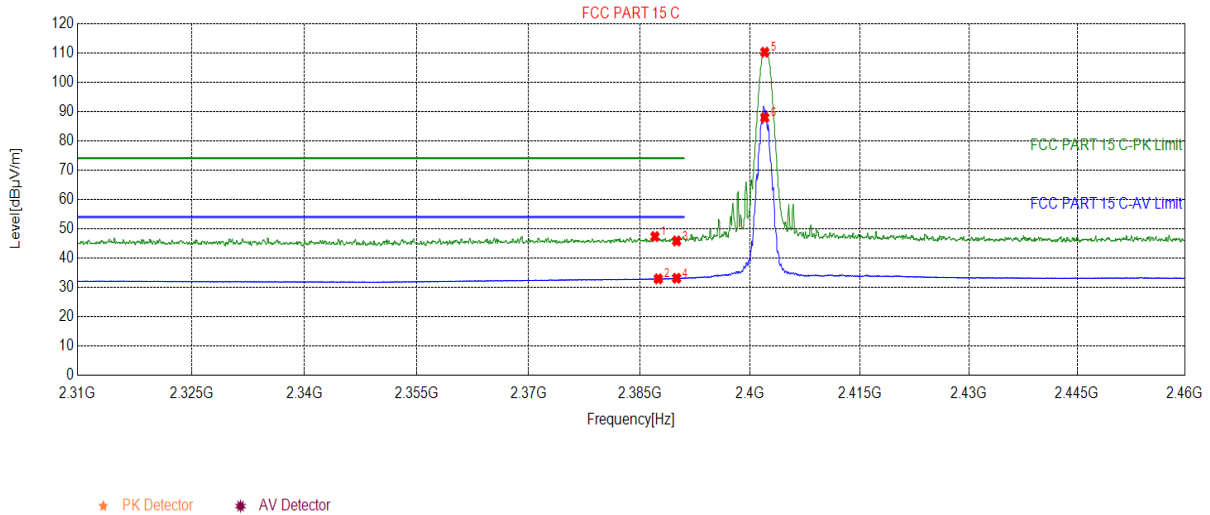
Restricted bands around fundamental frequency

Test plots

Worst Case Mode (GFSK(DH5))

GFSK_Channel 0

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2387.06	47.31	9.52	74.00	26.69	187	145	Horizontal
2	2387.51	32.90	9.54	54.00	21.10	156	25	Horizontal
3	2390.00	45.82	9.60	74.00	28.18	214	60	Horizontal
4	2390.00	33.10	9.60	54.00	20.90	204	145	Horizontal
5	2402.00	110.15	9.87	0.00	-110.15	189	211	Horizontal
6	2402.00	87.86	9.87	0.00	-87.86	144	156	Horizontal

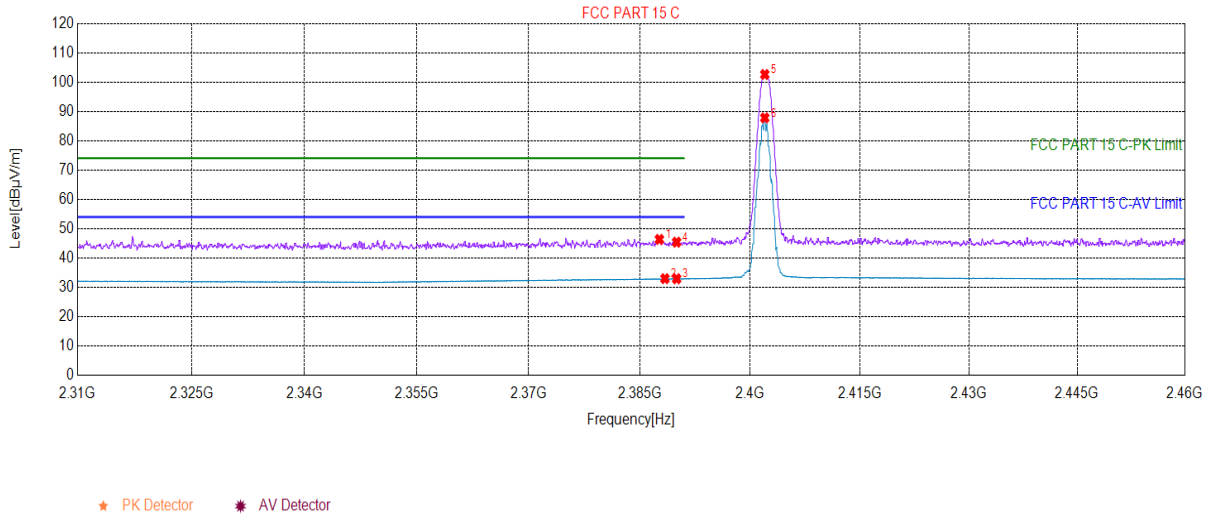
Final Data List



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GFSK_Channel 0

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2387.66	46.34	9.54	74.00	27.66	235	117	Vertical
2	2388.41	32.96	9.56	54.00	21.04	224	18	Vertical
3	2390.00	32.91	9.60	54.00	21.09	215	125	Vertical
4	2390.00	45.40	9.60	74.00	28.60	241	127	Vertical
5	2402.00	102.58	9.87	0.00	-102.58	274	15	Vertical
6	2402.00	87.79	9.87	0.00	-87.79	231	23	Vertical

Final Data List



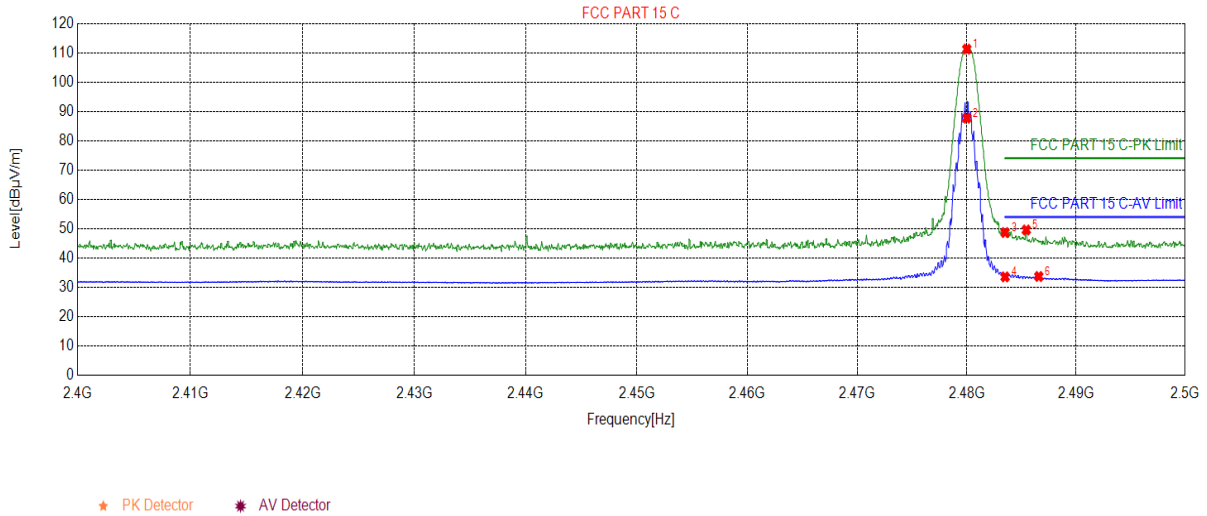
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GFSK_Channel 78

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480.00	111.22	8.47	0.00	-111.22	189	187	Horizontal
2	2480.00	87.70	8.47	0.00	-87.70	254	142	Horizontal
3	2483.50	48.68	8.48	74.00	25.32	144	14	Horizontal
4	2483.50	33.56	8.48	54.00	20.44	166	78	Horizontal
5	2485.44	49.56	8.49	74.00	24.44	125	125	Horizontal
6	2486.59	33.70	8.49	54.00	20.30	204	264	Horizontal

Final Data List



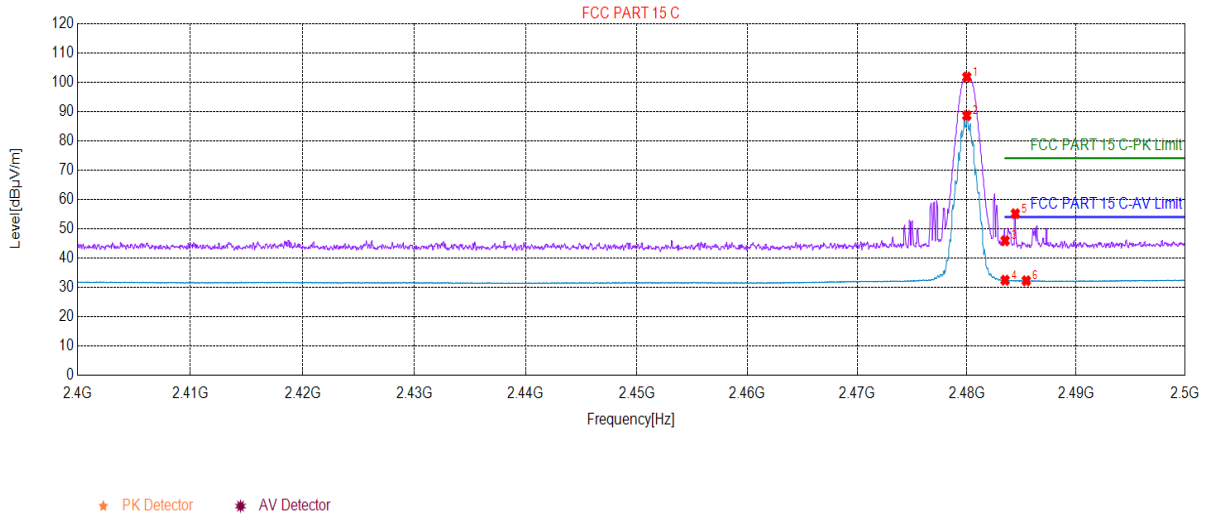
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GFSK_Channel 78

Test Graph



Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480.00	101.69	8.47	0.00	-101.69	322	145	Vertical
2	2480.00	88.57	8.47	0.00	-88.57	305	254	Vertical
3	2483.50	45.90	8.48	74.00	28.10	340	233	Vertical
4	2483.50	32.42	8.48	54.00	21.58	146	145	Vertical
5	2484.44	55.11	8.49	74.00	18.89	285	199	Vertical
6	2485.44	32.24	8.49	54.00	21.76	325	204	Vertical

Final Data List

Remark:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Factor= Antenna Factor + Cable Factor – Preamplifier Factor

Final Test Level =Receiver Reading + Factor

All Modes have been tested, but only the worst case data displayed in this report.

The End

