

Report No.: SEWM2206000086RG02

Rev.: 01

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TEST REPORT

Application No.: SEWM2206000086RG
Applicant: Lenovo (Shanghai) Electronics Technology Co., Ltd.
Address of Applicant: Section 304-305, Building No. 4, # 222, Meiyue Road, China (Shanghai) Pilot Free Trade Zone
Manufacturer: Lenovo PC HK Limited
Address of Manufacturer: 23/F, Lincoln House, Taikoo Place 979 King's Road, Quarry Bay, Hong Kong, China
EUT Description: Portable Tablet Computer
Model No.: HB286ZJ
Trade Mark: Lenovo
FCC ID: O57HB286ZJ
Standards: FCC 47 CFR Part 2, Subpart J
FCC 47 CFR Part 15, Subpart C
Date of Receipt: 2022/06/20
Date of Test: 2022/06/20 to 2022/07/18
Date of Issue: 2022/07/21

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:

Panta Sun

Panta Sun
Wireless Laboratory Manager



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1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022/07/21		Original

Prepared By	Weller Liu
	(Weller Liu) / Test Supervisor
Checked By	Well Wei
	(Well Wei) / Reviewer



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2 Test Summary

Test Item	FCC Rule No.	Test Method	Test Result	Result
Antenna Requirement	15.203/15.247(b)	--	Clause 4.1	PASS
AC Power Line Conducted Emission	15.207	ANSI C63.10 (2013) Section 6.2	Clause 4.3	PASS
Conducted Peak Output Power	15.247 (b)(1)	ANSI C63.10 (2013) Section 11.9.2.3	Clause 4.4	PASS
20dB Emission Bandwidth & 99% Occupied Bandwidth	15.247 (a)(1)	ANSI C63.10 (2013) Section 6.9.2/6.9.3	Clause 4.5	Reporting only
Carrier Frequencies Separation	15.247 (a)(1)	ANSI C63.10 (2013) Section 7.8.2	Clause 4.6	PASS
Hopping Channel Number	15.247 (a)(1)	ANSI C63.10 (2013) Section 7.8.3	Clause 4.7	PASS
Dwell Time	15.247 (a)(1)	ANSI C63.10 (2013) Section 7.8.4	Clause 4.8	PASS
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10 (2013) Section 7.8.7.2	Clause 4.9	PASS
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10 (2013) Section 7.8.7.1	Clause 4.10	PASS
Radiated Spurious emissions	15.247(d); 15.205/15.209	ANSI C63.10 (2013) Section 6.4 / 6.5 / 6.6	Clause 4.11	PASS
Restricted bands around fundamental frequency (Radiated Emission)	15.247(d); 15.205/15.209	ANSI C63.10 (2013) Section 7.8.8.3	Clause 4.12	PASS



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3 General Information

3.1 Details of Client

Applicant:	Lenovo (Shanghai) Electronics Technology Co., Ltd.
Address of Applicant:	Section 304-305, Building No. 4, # 222, Meiyue Road, China (Shanghai) Pilot Free Trade Zone
Manufacturer:	Lenovo PC HK Limited
Address of Manufacturer:	23/F, Lincoln House, Taikoo Place 979 King's Road, Quarry Bay, Hong Kong, China

3.2 Test Location

Company:	SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Address:	South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone
Post code:	215000
Test engineer:	Lves Cheng, Tizzy Song

3.3 Test Facility

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

- **A2LA (Certificate No. 6336.01)**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

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

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

- **FCC –Designation Number: CN1312**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory.

Designation Number: CN1312.

Test Firm Registration Number: 717327



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3.4 General Description of EUT

EUT Description:	Portable Tablet Computer
Model No.:	HB286ZJ
Trade Mark:	Lenovo
Hardware Version:	V1
Software Version:	HB286ZJ_RF04_2205091416
IMEI:	860893060010441 860893060010698
Operation Frequency:	2400MHz~2483.5MHz $f_c = 2402 \text{ MHz} + N * 1 \text{ MHz}$, where: - f_c = "Operating Frequency" in MHz, - N = "Channel Number" with the range from 0 to 78.
Bluetooth version:	Bluetooth V5.1
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Modulation Type:	GFSK, $\pi/4$ DQPSK, 8DPSK
Number of Channel:	79
Hopping Channel Type:	Adaptive Frequency Hopping systems
Antenna Type:	PIFA Antenna
Antenna Gain*:	☒ Provided by client
	1.5dBi(ANT7)
RF Cable:	1dB

Note: *Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information, SGS is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.

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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



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3.5 Test Environment

Environment Parameter	101.0 kPa Selected Values During Tests	
Relative Humidity	44-60 % RH Ambient	
Value	Temperature(°C)	Voltage(V)
NTNV	22~25	3.85
Remark: NV: Normal Voltage NT: Normal Temperature		

3.6 Description of Support Units

The EUT has been tested as an 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(b)
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. 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.	
The antenna is integrated and no consideration of replacement. The best case gain of the antenna is 1.5dBi(ANT7). (Provided by client)*. <i>Note: *Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information, SGS is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.</i> Remark: <i>As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.</i>	



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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.

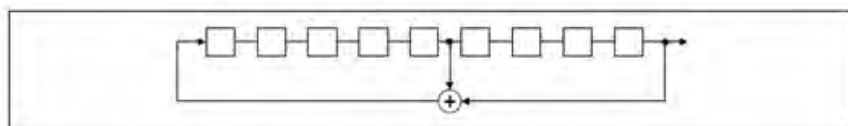
> Number of shift register stages: 9

- > Length of pseudo-random sequence: $29 - 1 = 511$ 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:

20	62	46	77	7	64	8	73	16	75	1



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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 Section 6.2		
Test Frequency Range:	150kHz to 30MHz		
Receiver Setup:	RBW = 9kHz, VBW = 30kHz		
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:	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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Test Setup:	
Test Mode:	Non-hopping transmitting mode with all kind of modulation and all kind of data type at the lowest, middle, high channel. Charge + Transmitting mode.
Final Test Mode:	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.
Instruments Used:	Refer to section 6 for details.
Test Results:	Pass



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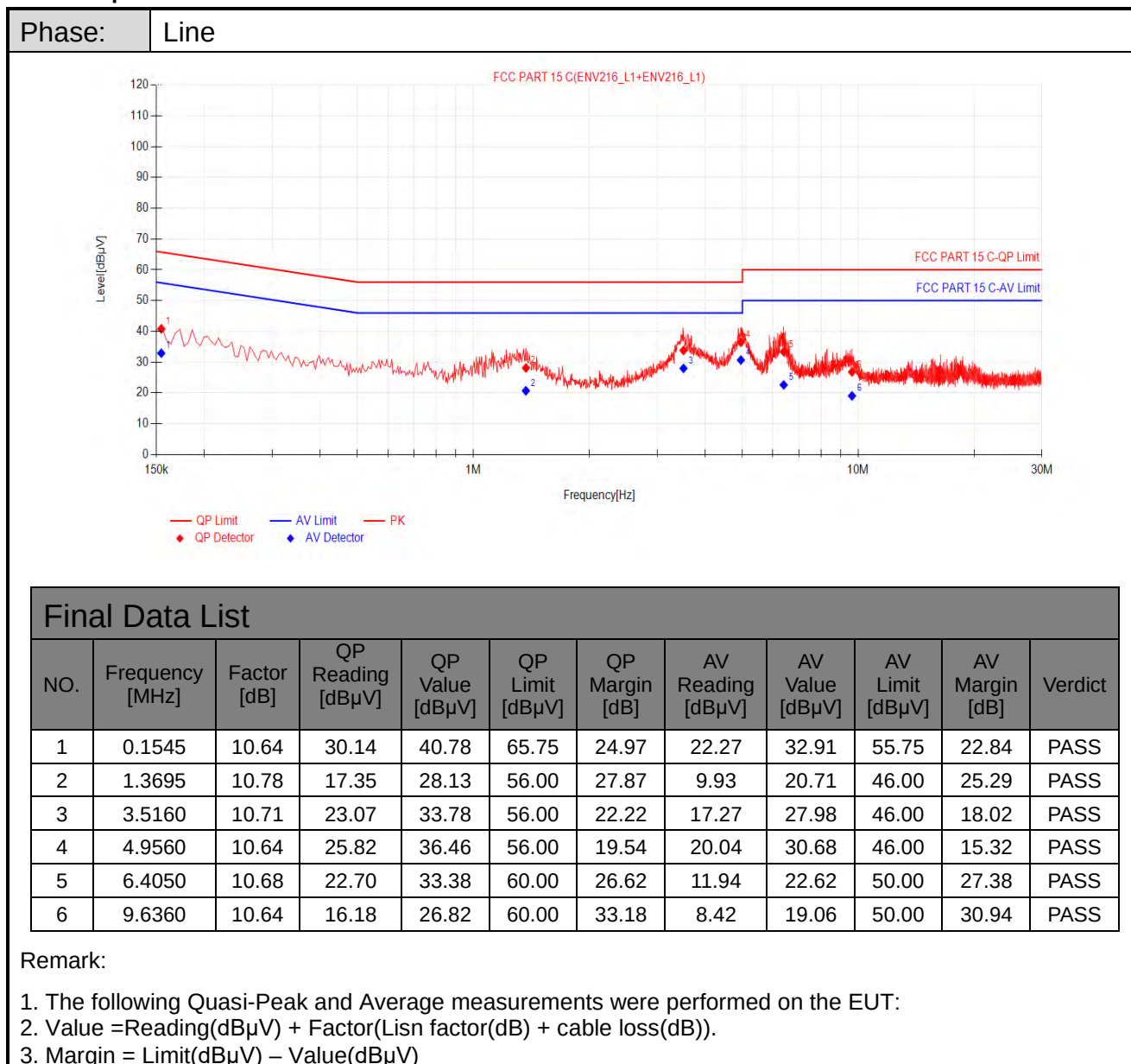
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Measurement Data

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.

For Sample #1:



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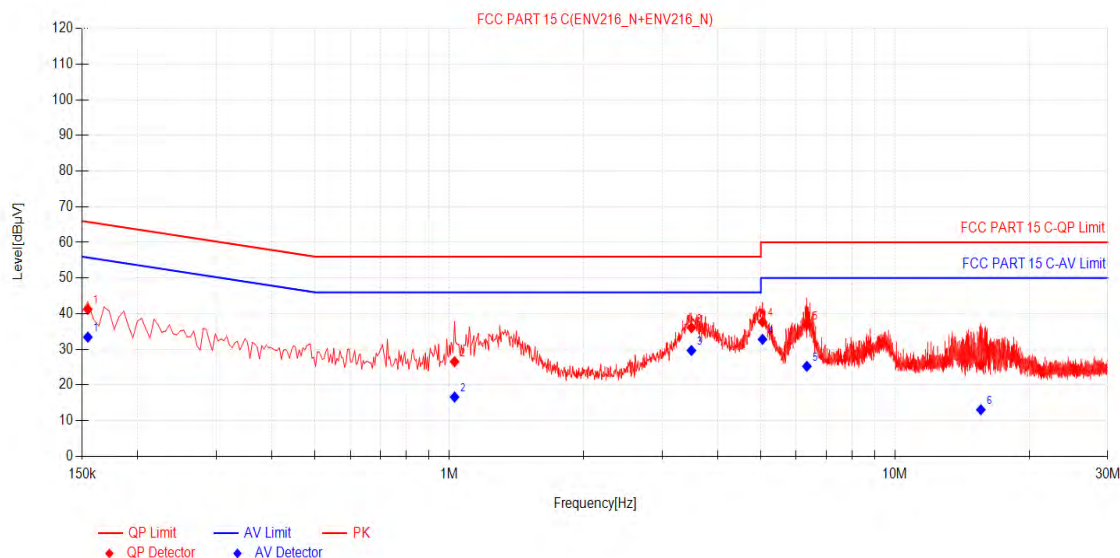
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Phase: Neutral



Final Data List

NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBμV]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Reading [dBμV]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.1545	10.72	30.51	41.23	65.75	24.52	22.70	33.42	55.75	22.33	PASS
2	1.0275	10.65	15.89	26.54	56.00	29.46	5.99	16.64	46.00	29.36	PASS
3	3.4935	10.66	25.41	36.07	56.00	19.93	19.01	29.67	46.00	16.33	PASS
4	5.0415	10.64	27.07	37.71	60.00	22.29	22.17	32.81	50.00	17.19	PASS
5	6.3420	10.55	26.32	36.87	60.00	23.13	14.68	25.23	50.00	24.77	PASS
6	15.5805	10.59	15.08	25.67	60.00	34.33	2.47	13.06	50.00	36.94	PASS

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Value = Reading(dBμV) + Factor(Lin factor(dB) + cable loss(dB)).
3. Margin = Limit(dBμV) – Value(dBμV)



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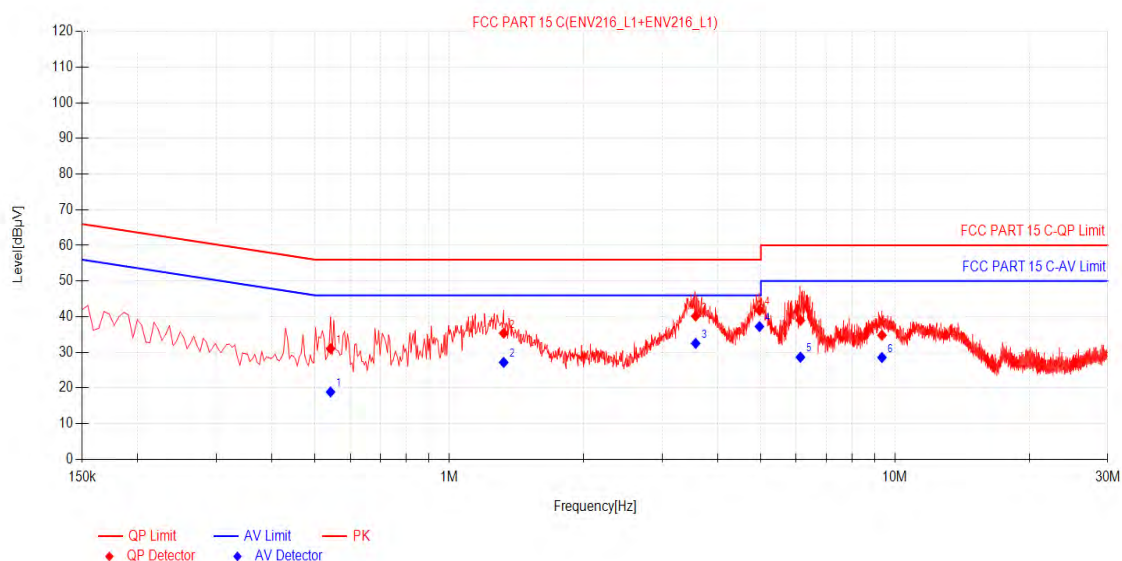
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For Sample #2:

Phase: Line



Final Data List

NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBμV]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Reading [dBμV]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.5415	10.57	20.48	31.05	56.00	24.95	8.32	18.89	46.00	27.11	PASS
2	1.3245	10.78	24.59	35.37	56.00	20.63	16.40	27.18	46.00	18.82	PASS
3	3.5700	10.71	29.46	40.17	56.00	15.83	21.81	32.52	46.00	13.48	PASS
4	4.9650	10.64	31.15	41.79	56.00	14.21	26.60	37.24	46.00	8.76	PASS
5	6.1350	10.67	28.30	38.97	60.00	21.03	17.97	28.64	50.00	21.36	PASS
6	9.3480	10.65	24.14	34.79	60.00	25.21	17.90	28.55	50.00	21.45	PASS

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Value = Reading (dBμV) + Factor (Lisn factor (dB) + cable loss (dB)).
3. Margin = Limit (dBμV) – Value (dBμV)



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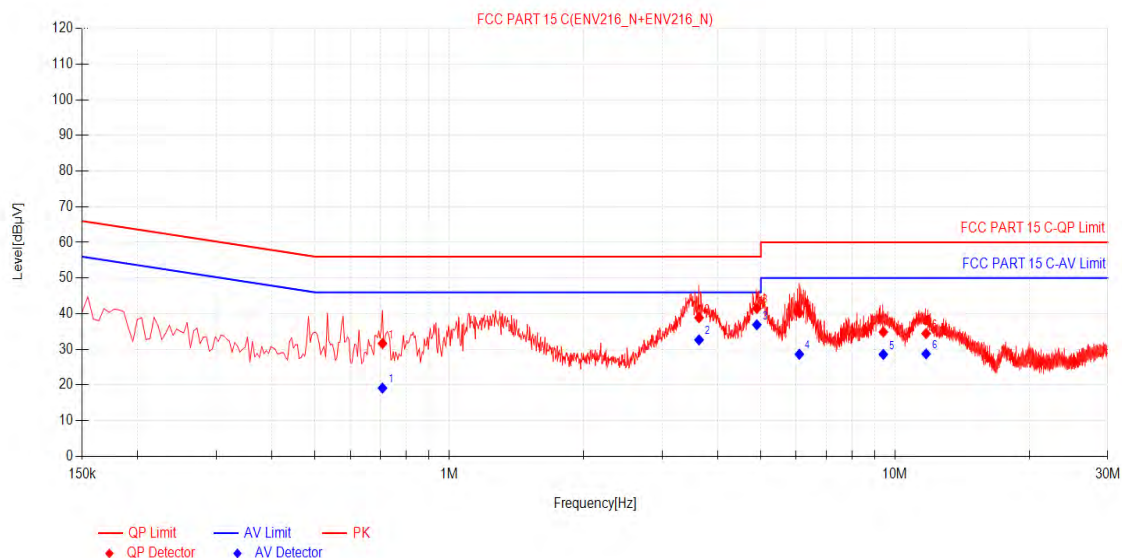
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Phase: Neutral



Final Data List

NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBμV]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Reading [dBμV]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.7080	10.81	20.82	31.63	56.00	24.37	8.33	19.14	46.00	26.86	PASS
2	3.6330	10.69	28.20	38.89	56.00	17.11	21.97	32.66	46.00	13.34	PASS
3	4.8975	10.64	30.83	41.47	56.00	14.53	26.25	36.89	46.00	9.11	PASS
4	6.0990	10.58	29.69	40.27	60.00	19.73	18.04	28.62	50.00	21.38	PASS
5	9.4110	10.64	24.23	34.87	60.00	25.13	17.96	28.60	50.00	21.40	PASS
6	11.7420	10.65	23.79	34.44	60.00	25.56	18.08	28.73	50.00	21.27	PASS

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Value = Reading(dBμV) + Factor(Lin factor(dB) + cable loss(dB)).
3. Margin = Limit(dBμV) – Value(dBμV)



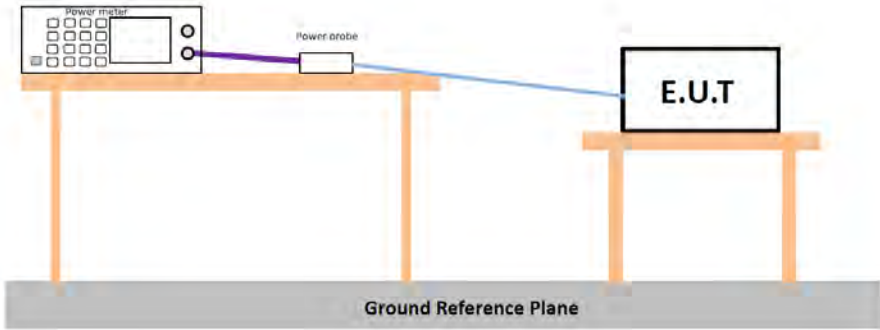
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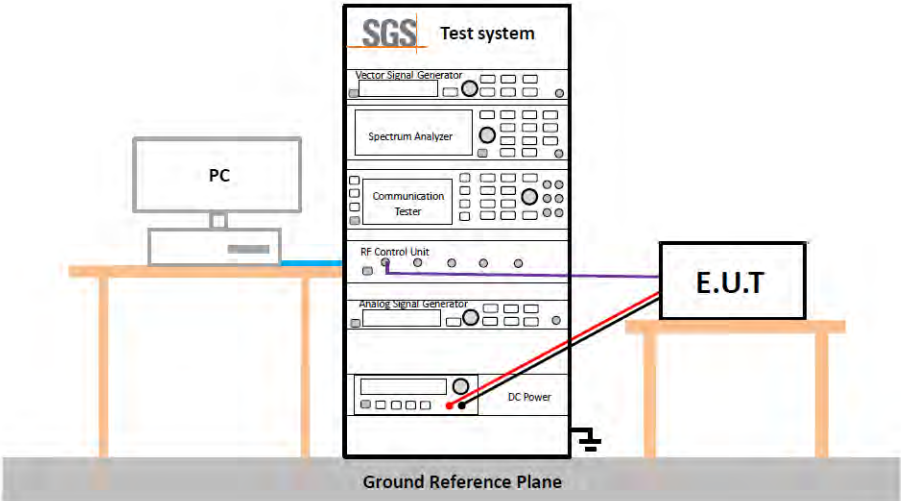
4.4 Conducted Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(1)
Test Method:	ANSI C63.10:2013 Section 11.9.2.3
Test Setup:	 * Test with power meter (Detector function: Peak)
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:	For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.
Test Results:	Pass
The detailed test data see: Appendix	



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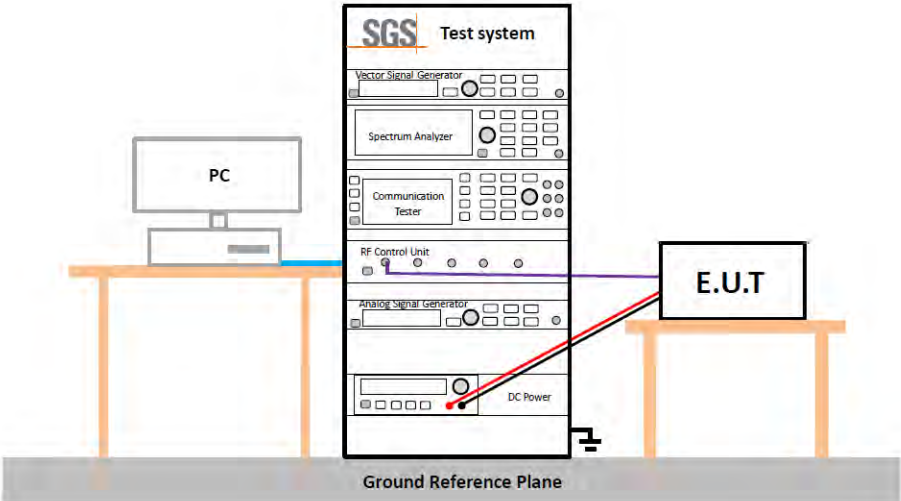
4.5 20dB Emission Bandwidth & 99% Occupied Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2013 Section 6.9.2 and 6.9.3
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	



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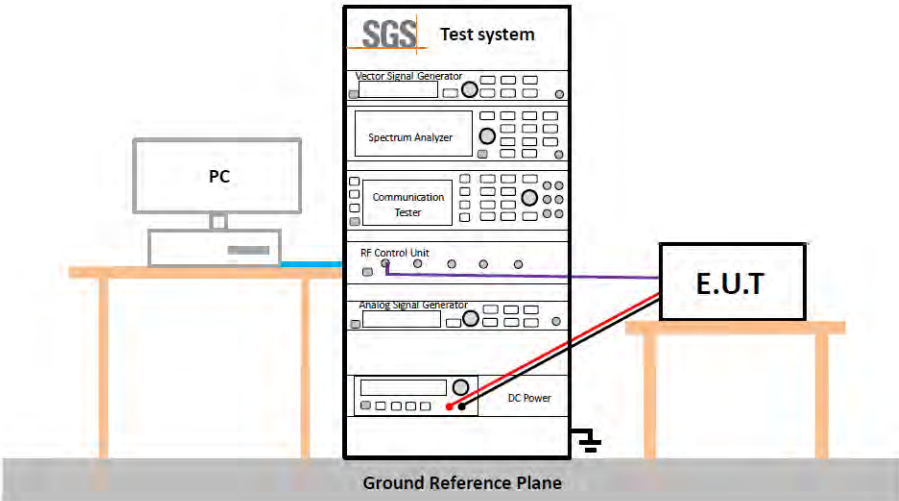
4.6 Carrier Frequencies Separationy

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2013 Section 7.8.2
Test Setup:	
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	



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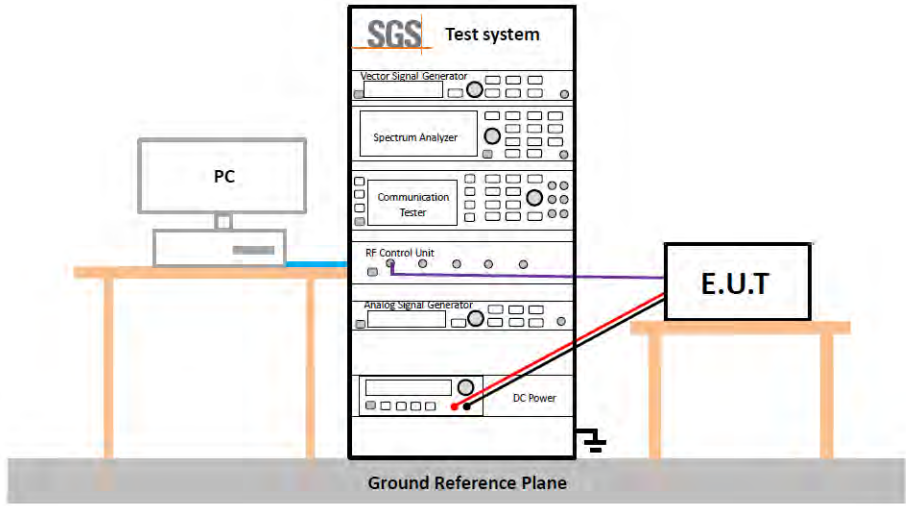
4.7 Hopping Channel Number

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2013 Section 7.8.3
Test Setup:	
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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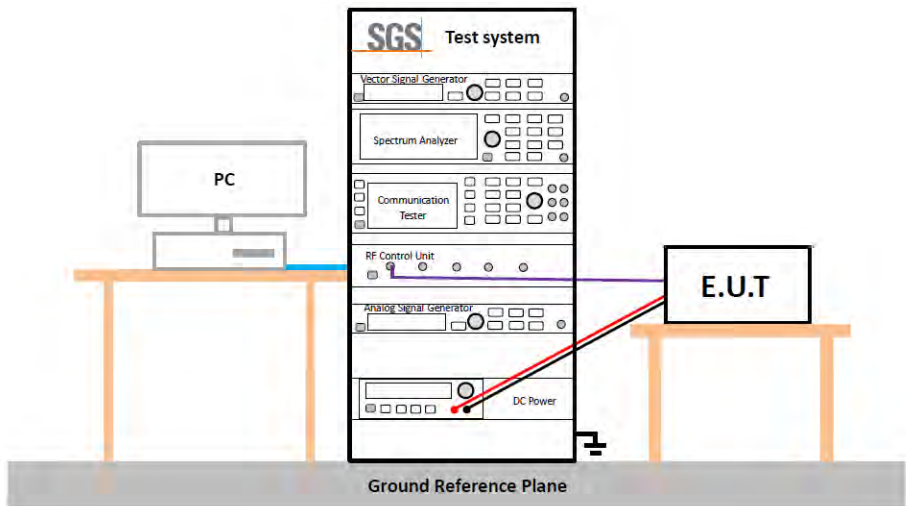
4.8 Dwell Time

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2013 Section 7.8.4
Test Setup:	
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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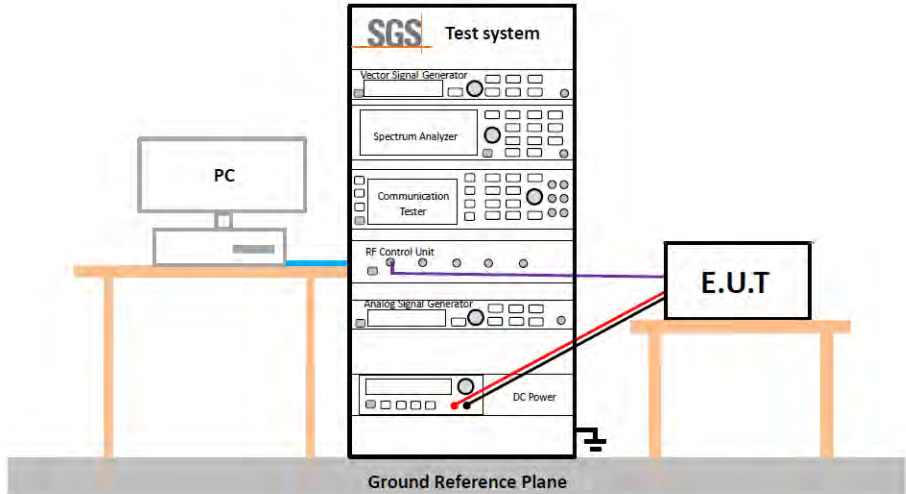
4.9 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10:2013 Section 7.8.7.2
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 7.8.7.1
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	



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4.11 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205				
Test Method:	ANSI C63.10 :2013 Section 6.4 / 6.5 / 6.6				
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Test Frequency:	9kHz ~ 25GHz				
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.					

Test Setup:

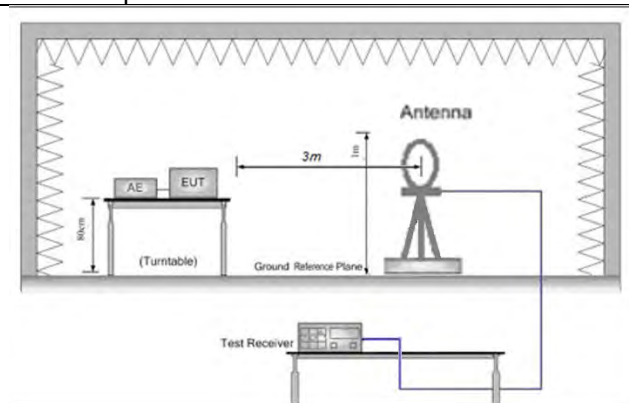


Figure 1. Below 30MHz

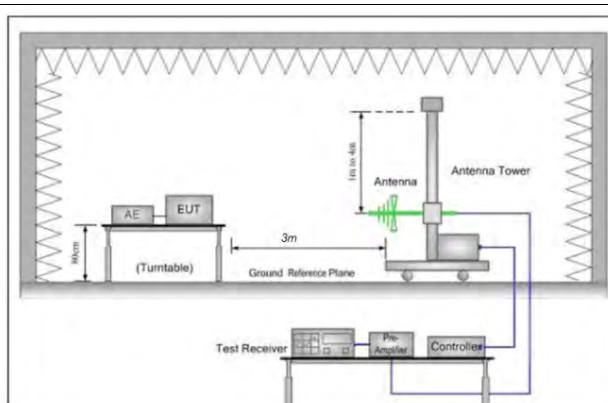


Figure 2. 30MHz to 1GHz



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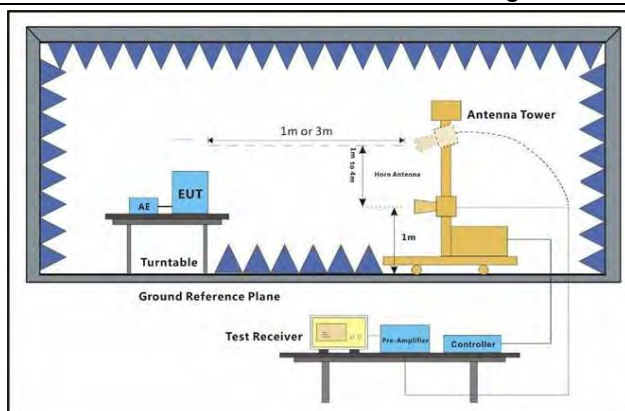


Figure 3. Above 1 GHz

Test Procedure:	- 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 (Distance from antenna to EUT is 1m for measurements >18GHz). - 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 (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. - The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. - Test the EUT in the lowest channel, the middle 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. - The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported - The disturbance above 18GHz was very low, and the harmonics were the highest point could be found when testing, so only the harmonics had been displayed. - At a measurement distance of 1 meter the limit line was increased by $20 \cdot \log(3/1) = 9.54 \text{ dB}$.
Test Configuration:	Measurements Below 1000MHz - RBW = 120 kHz - VBW = 300 kHz - Detector = Peak - Trace mode = max hold Peak Measurements Above 1000 MHz

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	• RBW = 1 MHz • VBW $\geq$ 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz Use duty cycle correction factor method per 15.35(c). Duty cycle = On time / 100 milliseconds On time = $N_1 \cdot L_1 + N_2 \cdot L_2 \dots + N_{N-1} \cdot L_{N-1} + N_N \cdot L_N$ Where N_1 is number of type 1 pulse, L_1 is length of type 1 pulses, etc. Average Value = Peak Value + $20 \cdot \log(\text{Duty cycle})$.
Exploratory Test Mode:	Non-hopping transmitting mode with all kind of modulation and all kind of data type Charge + Transmitting mode.
Final Test Mode:	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.
Instruments Used:	Refer to section 6 for details
Test Results:	Pass
The detailed test data see: Appendix	



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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 Section 7.8.8.3		
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:

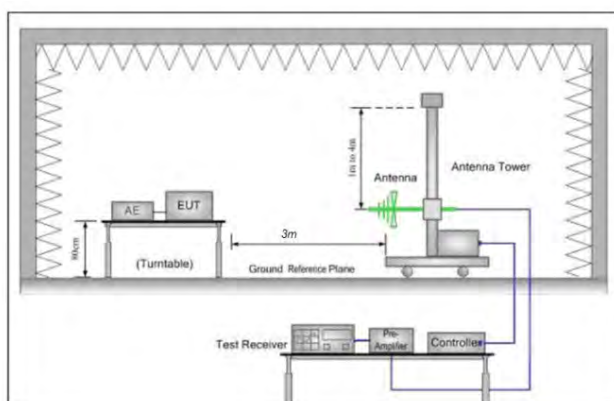


Figure 1. 30MHz to 1GHz

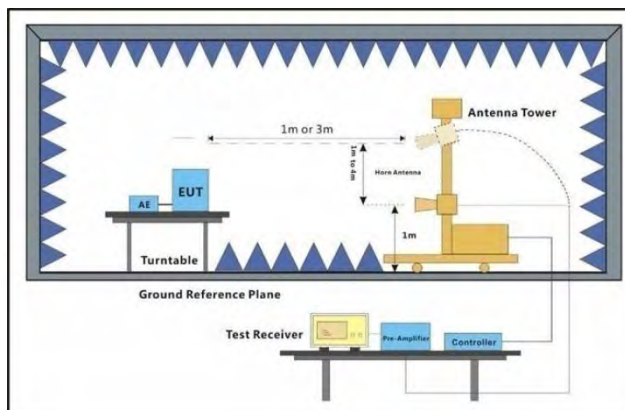


Figure 2. Above 1 GHz

Test Procedure:

- 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



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	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 h. Test the EUT in the lowest channel , the Highest channel i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case. j. Repeat above procedures until all frequencies measured was complete.
Test Configuration:	Measurements Below 1000MHz • RBW = 120 kHz • VBW = 300 kHz • Detector = Peak • Trace mode = max hold Peak Measurements Above 1000 MHz • RBW = 1 MHz • VBW ≥ 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz Use duty cycle correction factor method per 15.35(c). 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 pulse, L_1 is length of type 1 pulses, etc. Average Value = Peak Value + 20*log(Duty cycle).
Exploratory Test Mode:	Non-hopping transmitting mode with all kind of modulation and all kind of data type Charge + Transmitting mode.
Final Test Mode:	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.
Instruments Used:	Refer to section 6 for details
Test Results:	Pass
The detailed test data see: Appendix	



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

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	±0.54dB
2	RF power density, conducted	±1.03dB
3	Spurious emissions, conducted	±0.54dB
4	Radio Frequency	±1.0%
5	Duty Cycle	±0.37%
6	Occupied Bandwidth	±1.0%
7	Radiated Emission	± 3.13dB (9k -30MHz)
		± 4.8dB (30M -1GHz)
		± 4.8dB (1GHz to 18GHz)
		± 4.8dB (Above 18GHz)

Remark:

The U_{lab} (lab Uncertainty) is less than $U_{CISPR/ETSI}$ (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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6 Equipment List

RF Test Equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	Brilliant-emc	N/A	SUWI-04-01-06	2021/05/08	2024/05/07
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2022/02/16	2023/02/15
Signal Analyzer	ROHDE&SCHWARZ	FSV3030	SUWI-01-02-02	2022/05/17	2023/05/16
Measurement Software	Tonscend	JS1120-3 Test System V3.1.55	SUWI-02-09-09	NCR	NCR
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2022/02/15	2023/02/14
Power meter	Anritsu	ML2495A	SUWI-01-31-01	2021/12/04	2022/12/03
Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	2021/12/04	2022/12/03
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-01	2022/02/15	2023/02/14
Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW500	SUWI-01-16-05	2022/02/14	2023/02/13
MXG Vector signal genitor	KEYSIGHT	N5182B	SUWI-01-38-01	2022/02/14	2023/02/13

CE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	Brilliant-emc	N/A	SUWI-04-03-01	2021/05/08	2024/05/07
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-01	2022/02/16	2023/02/15
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-02	2022/02/16	2023/02/15
Measurement Software	Tonscend	JS32-CE V4.0.0.2	SUWI-02-09-05	NCR	NCR
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/16	2023/02/15
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2022/02/16	2023/02/15



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RSE Test Equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	2021/05/08	2024/05/07
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2022/02/16	2023/02/15
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-05	2021/12/04	2022/12/03
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/19	2023/02/18
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2022/02/15	2023/02/14
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	VULB 9163	SUWI-01-11-01	2021/05/16	2023/05/15
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2021/05/16	2023/05/15
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/05/14	2023/05/13
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2022/02/14	2023/02/13
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2022/02/14	2023/02/13
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2022/02/19	2023/02/18
Active Loop Antenna	SCHWRZBECK MESS- ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/06/10	2023/06/09
Measurement Software	Tonscend	JS32-RSE V4.0.0.1	SUWI-02-09-06	NCR	NCR



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7 Photographs - Setup Photos

Refer to Appendix A.2 WLAN Setup Photos.



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Appendix



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20dB Emission Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant7	2402	0.95	2401.53	2402.47	---	---
		2441	0.95	2440.53	2441.47	---	---
		2480	0.95	2479.53	2480.47	---	---
2DH5	Ant7	2402	1.29	2401.36	2402.65	---	---
		2441	1.29	2440.36	2441.65	---	---
		2480	1.29	2479.36	2480.64	---	---
3DH5	Ant7	2402	1.29	2401.34	2402.64	---	---
		2441	1.29	2440.34	2441.64	---	---
		2480	1.29	2479.34	2480.63	---	---



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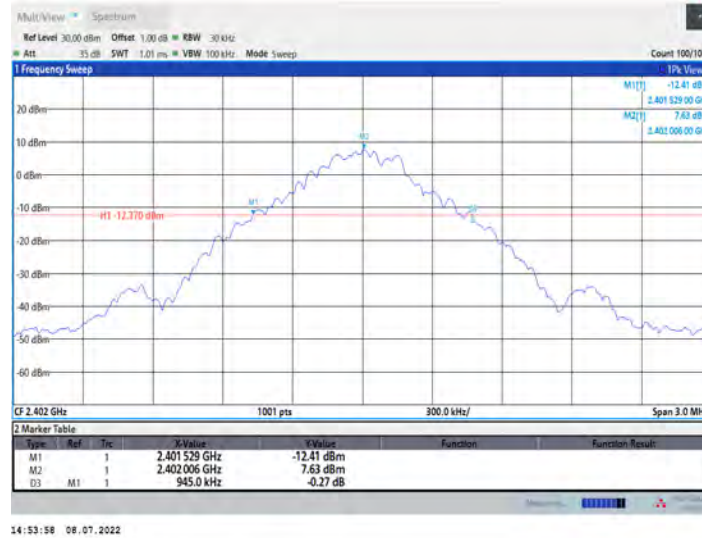
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Test Graphs

DH5_Ant7_2402



DH5_Ant7_2441



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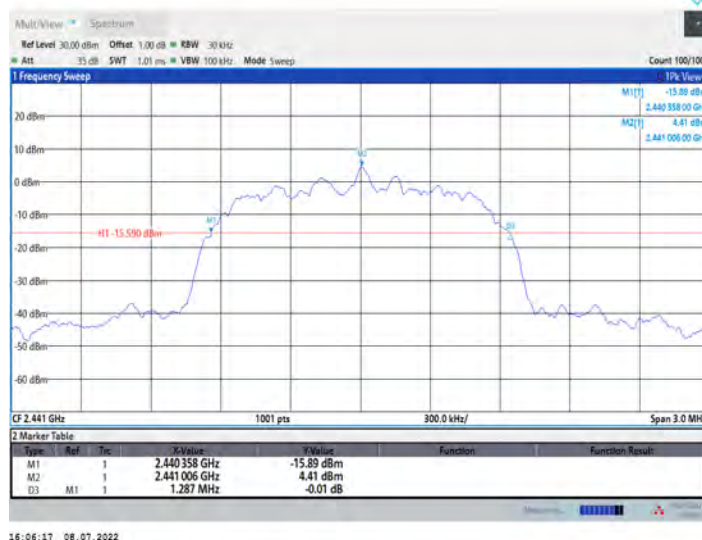
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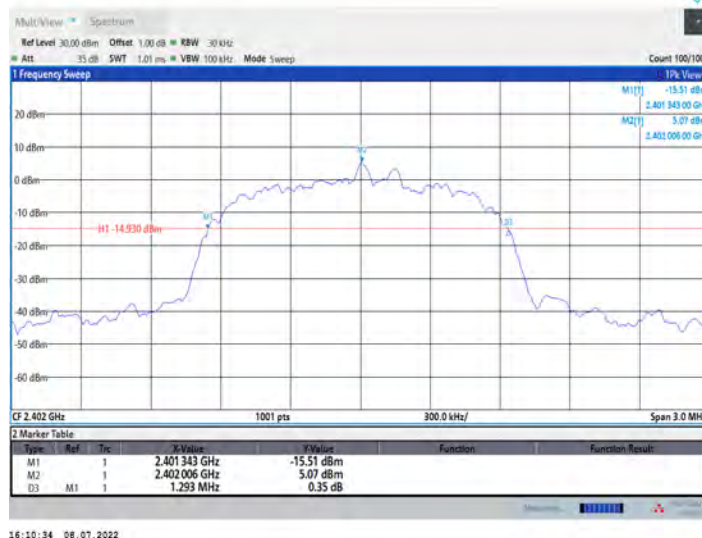
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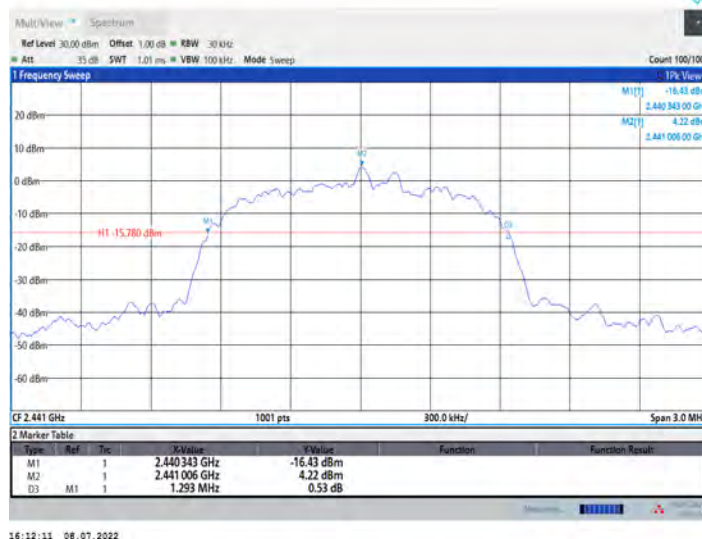
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Occupied Channel Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant7	2402	0.848	2401.564	2402.412	---	---
		2441	0.854	2440.562	2441.416	---	---
		2480	0.854	2479.559	2480.413	---	---
2DH5	Ant7	2402	1.170	2401.403	2402.573	---	---
		2441	1.171	2440.402	2441.574	---	---
		2480	1.170	2479.401	2480.571	---	---
3DH5	Ant7	2402	1.173	2401.405	2402.578	---	---
		2441	1.173	2440.406	2441.579	---	---
		2480	1.172	2479.404	2480.575	---	---



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Test Graphs

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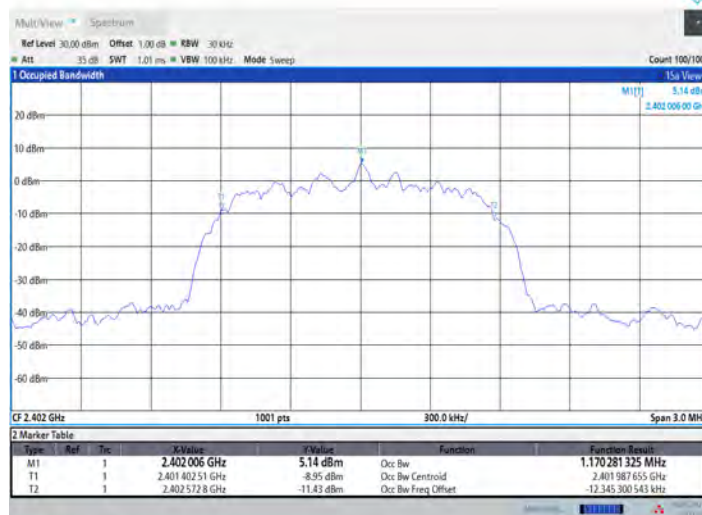
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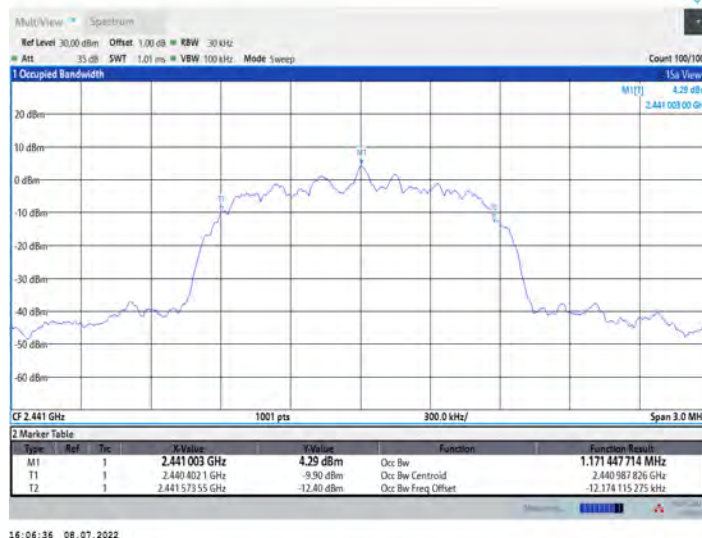
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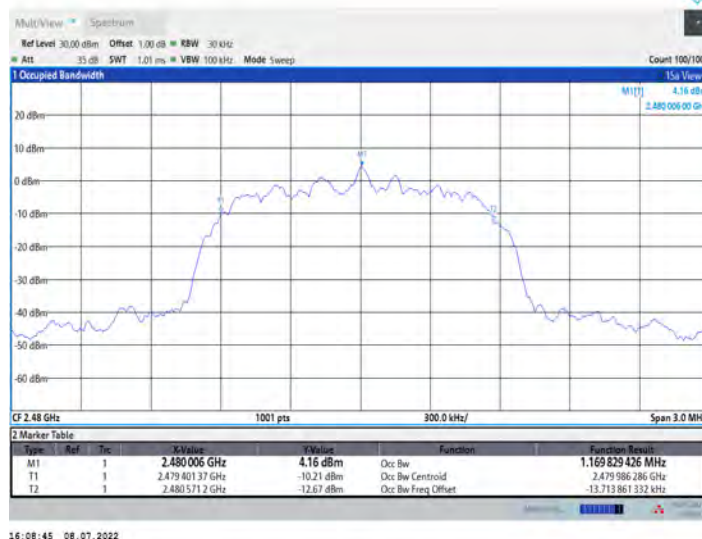
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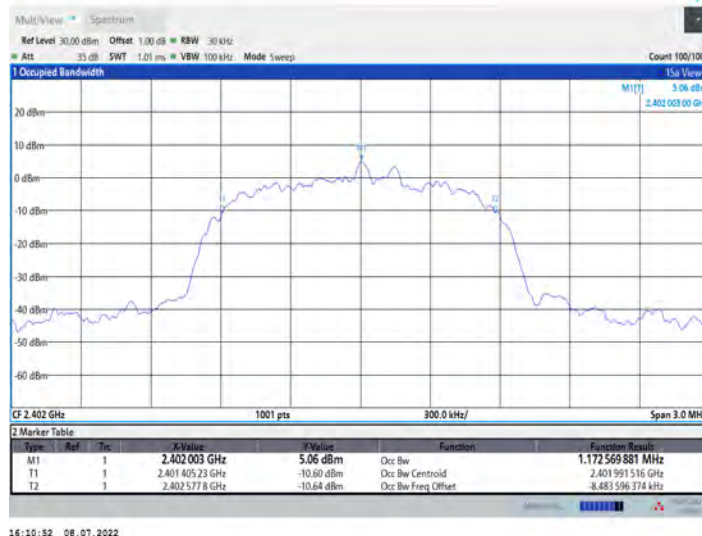
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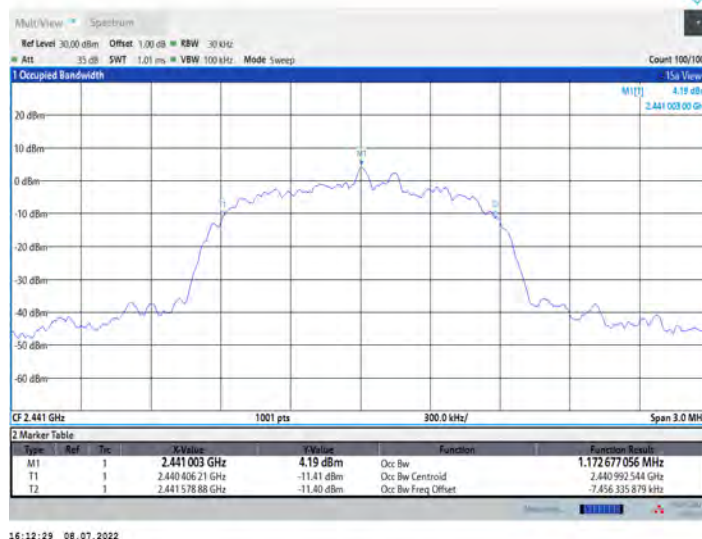
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3DH5_Ant7_2480



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Maximum conducted output power Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant7	2402	11.16	≤30.00	PASS
		2441	10.95	≤30.00	PASS
		2480	10.22	≤30.00	PASS
2DH5	Ant7	2402	10.58	≤20.97	PASS
		2441	9.98	≤20.97	PASS
		2480	9.32	≤20.97	PASS
3DH5	Ant7	2402	10.51	≤20.97	PASS
		2441	9.94	≤20.97	PASS
		2480	9.67	≤20.97	PASS



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Carrier frequency separation Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant7	Hop	1.296	≥0.950	PASS
2DH5	Ant7	Hop	1.164	≥0.860	PASS
3DH5	Ant7	Hop	1.008	≥0.860	PASS



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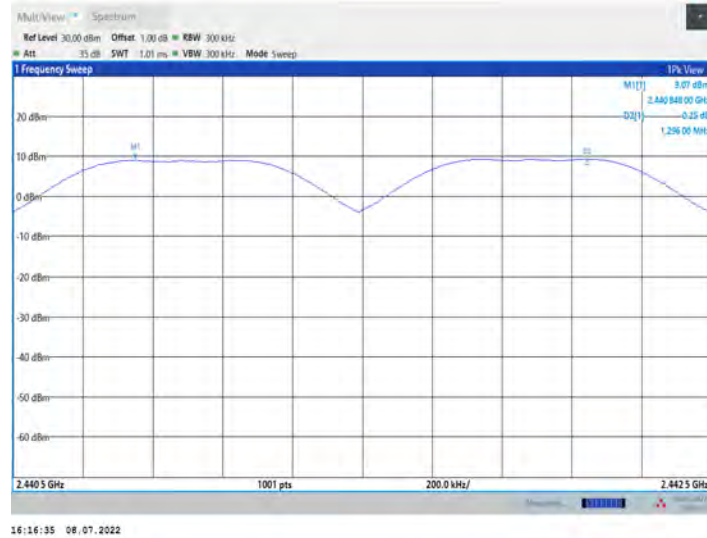
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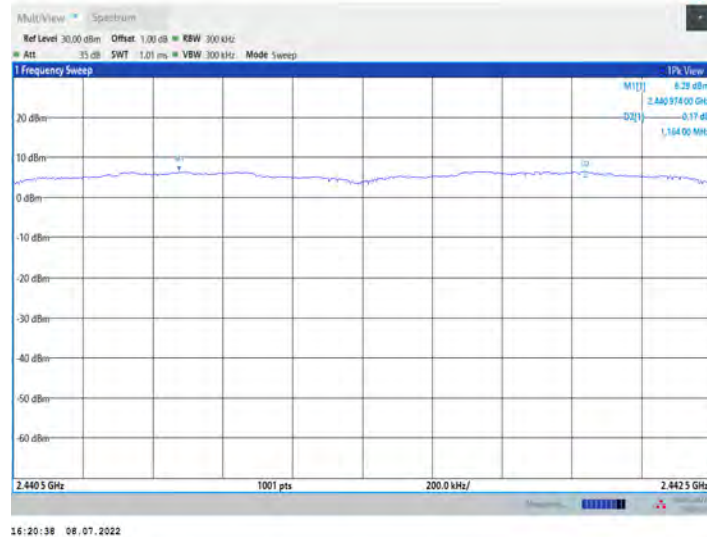
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Test Graphs

DH5_Ant7_Hop



2DH5_Ant7_Hop



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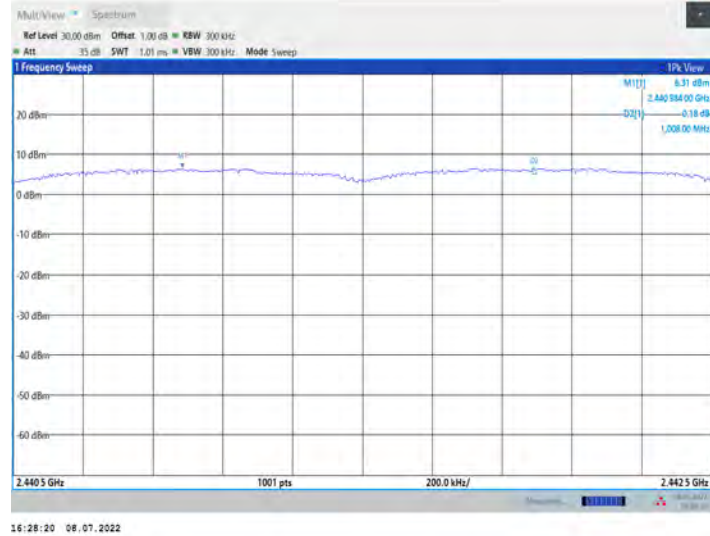
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Time of occupancy Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant7	Hop	0.36	320	0.115	≤0.4	PASS
DH3	Ant7	Hop	1.62	160	0.259	≤0.4	PASS
DH5	Ant7	Hop	2.87	106.67	0.306	≤0.4	PASS
2DH1	Ant7	Hop	0.37	320	0.118	≤0.4	PASS
2DH3	Ant7	Hop	1.62	160	0.259	≤0.4	PASS
2DH5	Ant7	Hop	2.88	106.67	0.307	≤0.4	PASS
3DH1	Ant7	Hop	0.37	320	0.118	≤0.4	PASS
3DH3	Ant7	Hop	1.62	160	0.259	≤0.4	PASS
3DH5	Ant7	Hop	2.87	106.67	0.306	≤0.4	PASS



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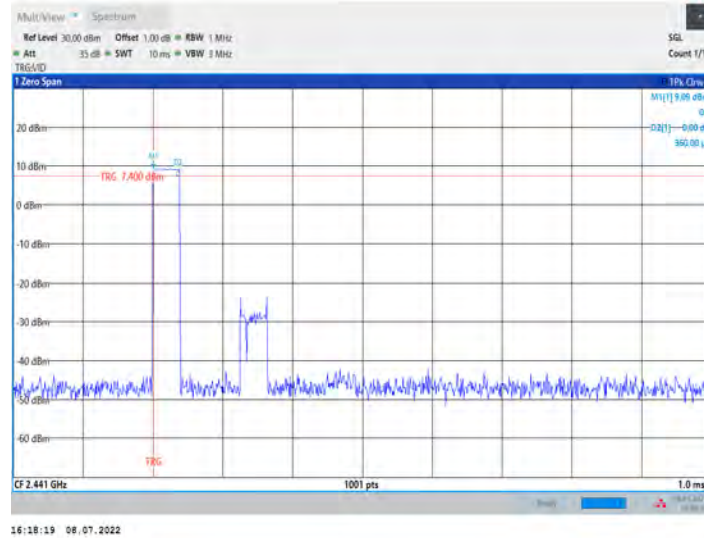
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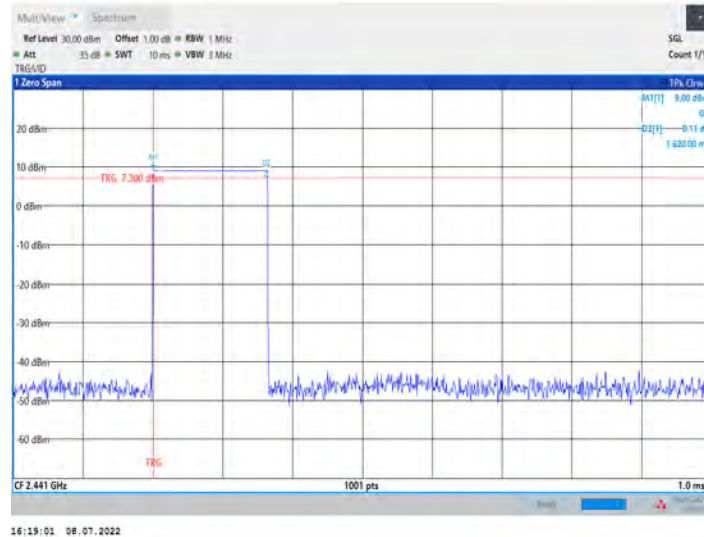
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Test Graphs

DH1_Ant7_Hop



DH3_Ant7_Hop



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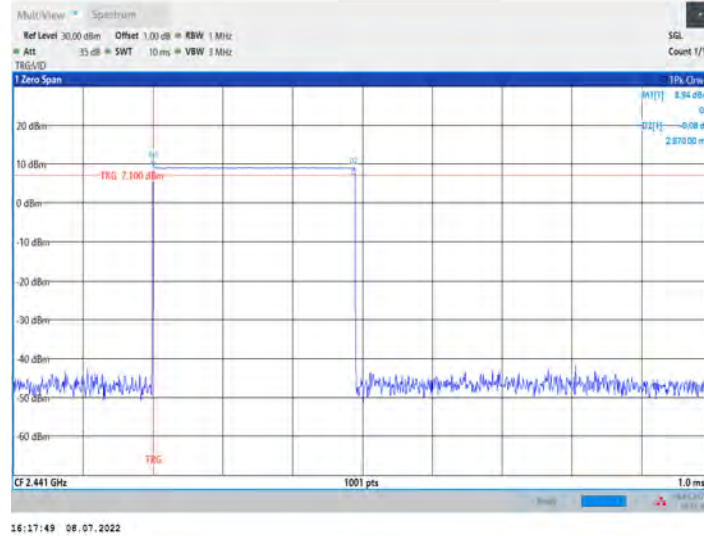
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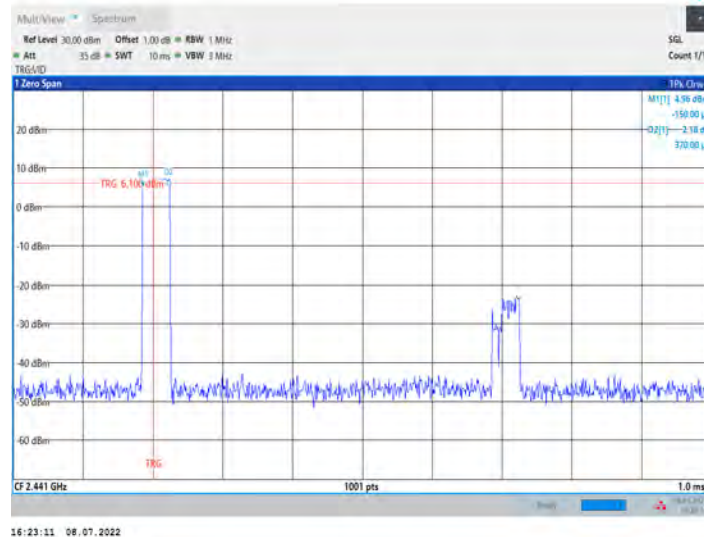
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DH5_Ant7_Hop



2DH1_Ant7_Hop



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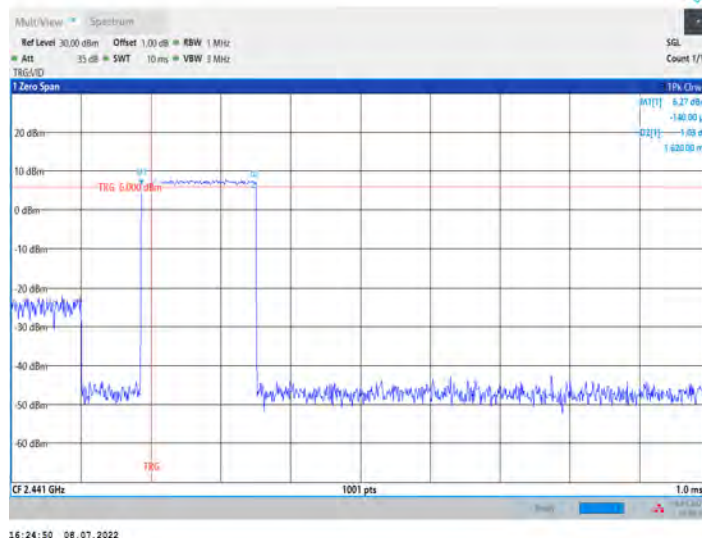
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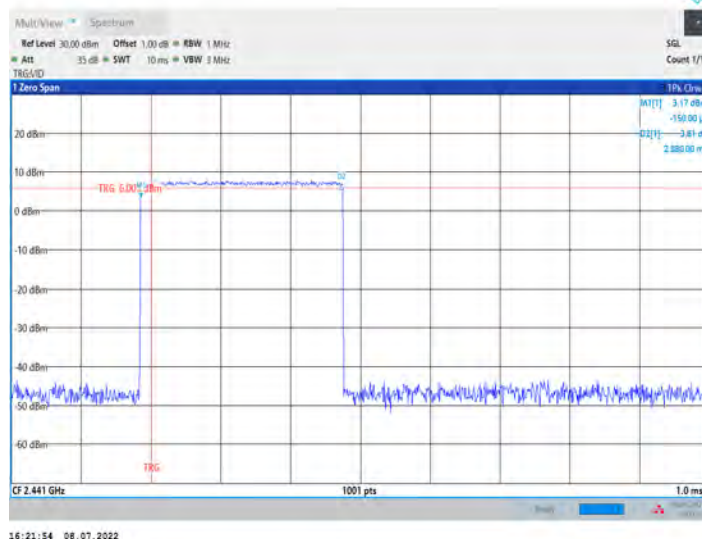
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2DH3_Ant7_Hop



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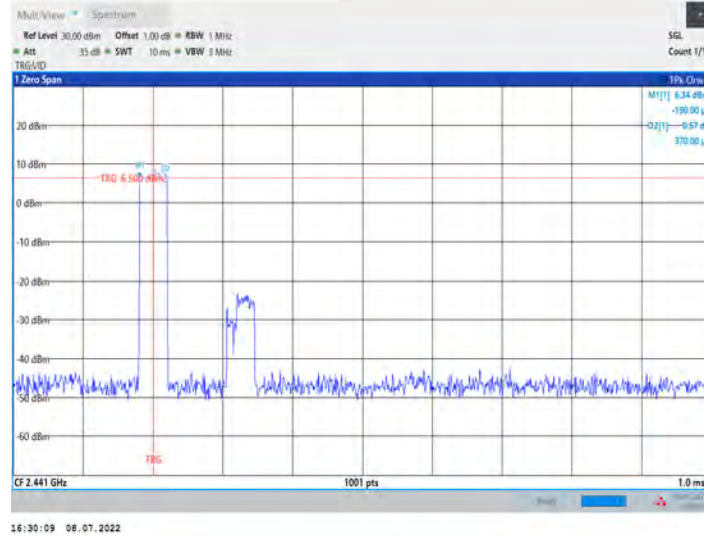
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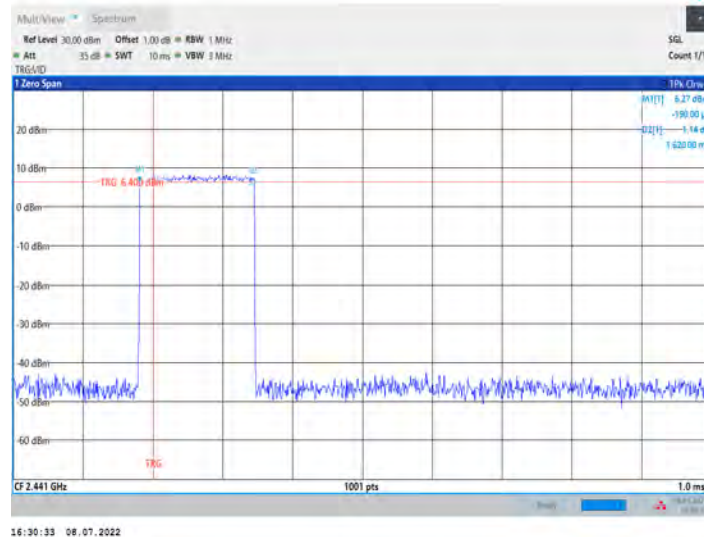
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3DH1_Ant7_Hop



3DH3_Ant7_Hop



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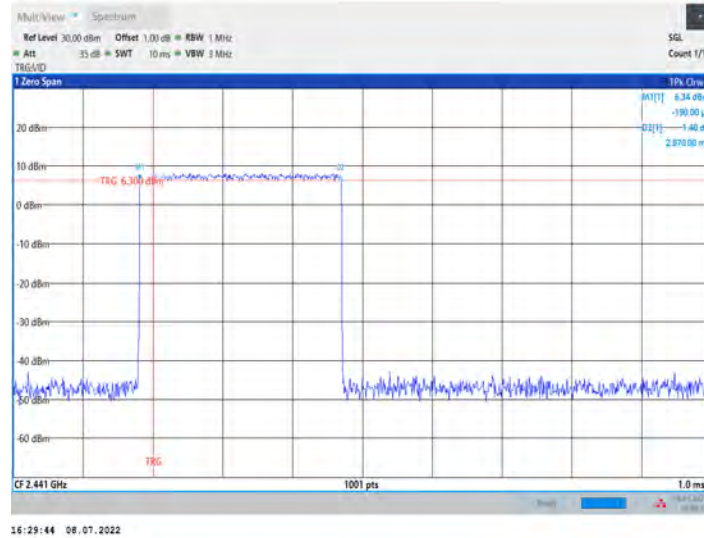
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Number of hopping channels Test Result

TestMode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
DH5	Ant7	Hop	79	≥15	PASS
2DH5	Ant7	Hop	79	≥15	PASS
3DH5	Ant7	Hop	79	≥15	PASS



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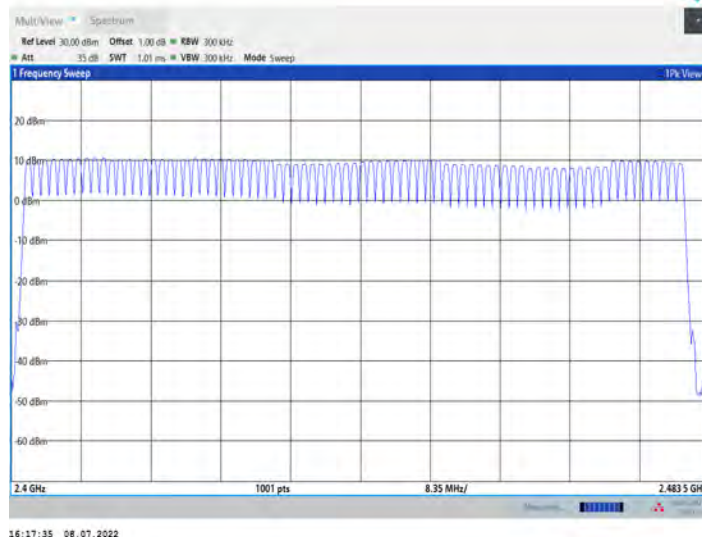
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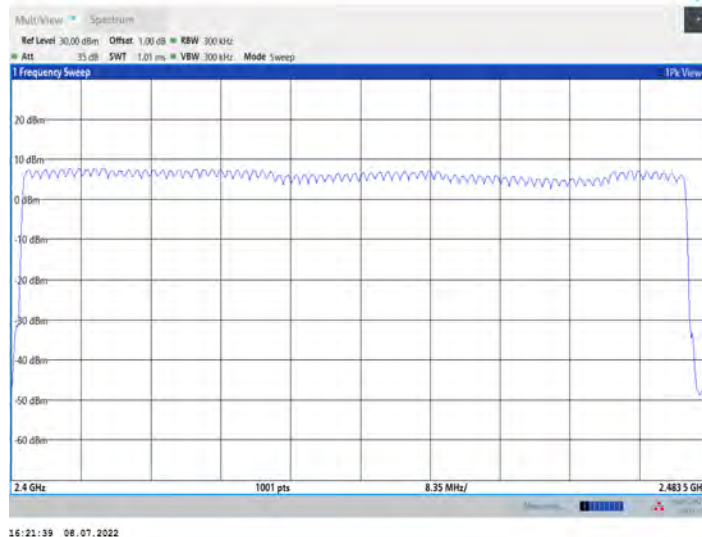
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Test Graphs

DH5_Ant7_Hop



2DH5_Ant7_Hop



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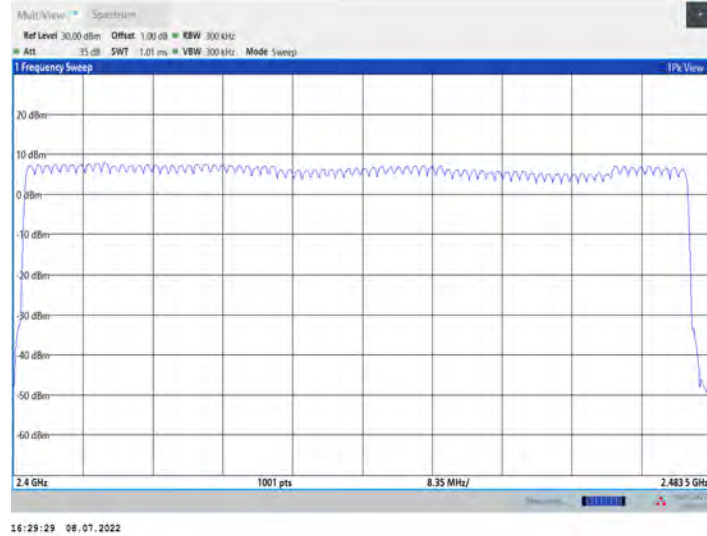
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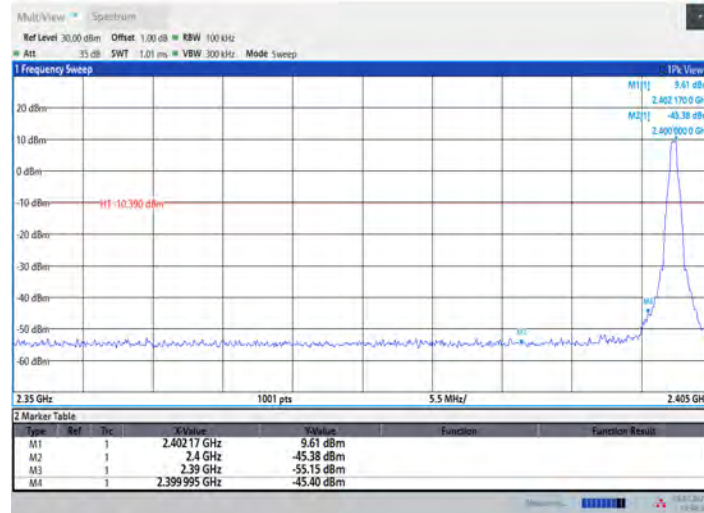
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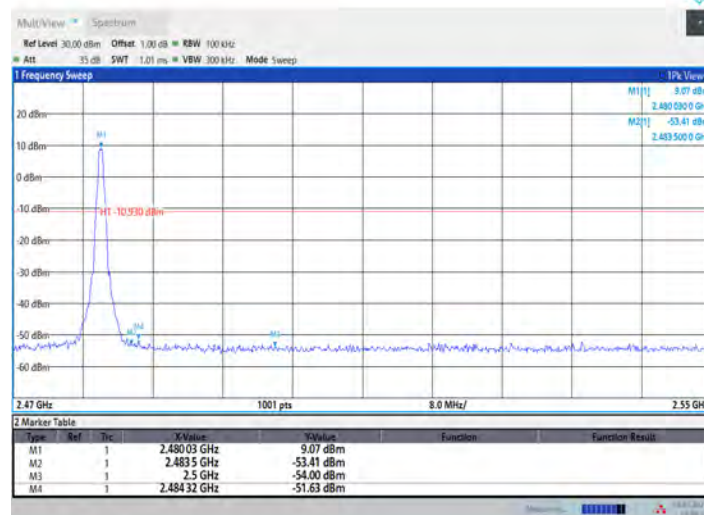
Band edge measurements Test Graphs

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14:58:35 08.07.2022



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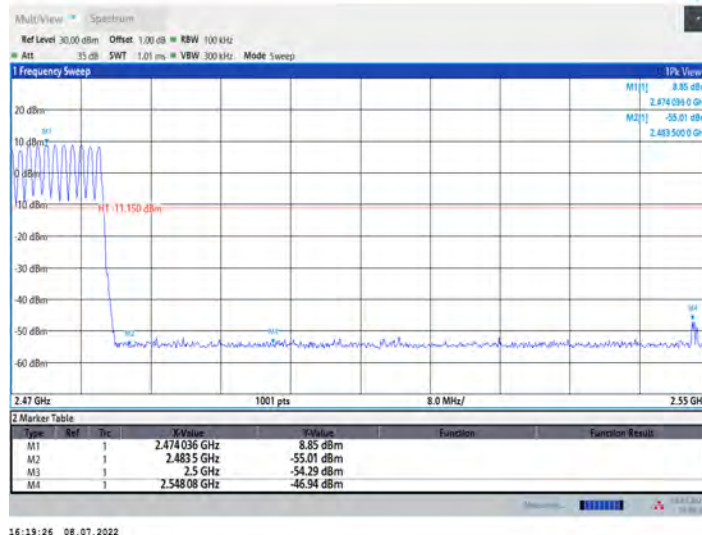
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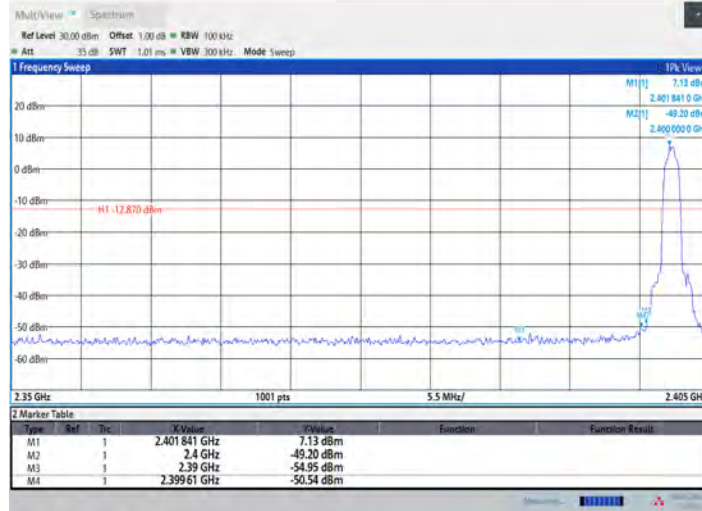
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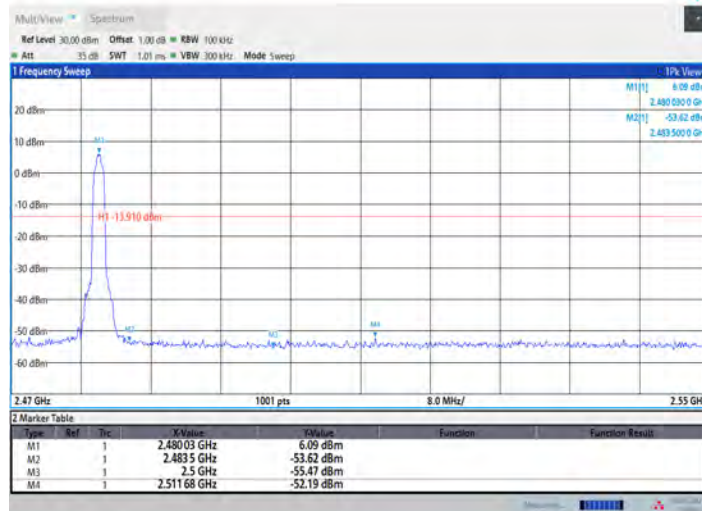
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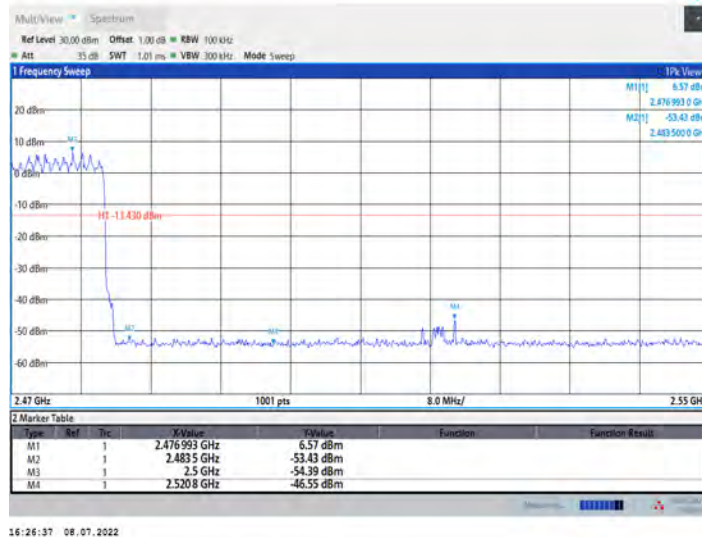
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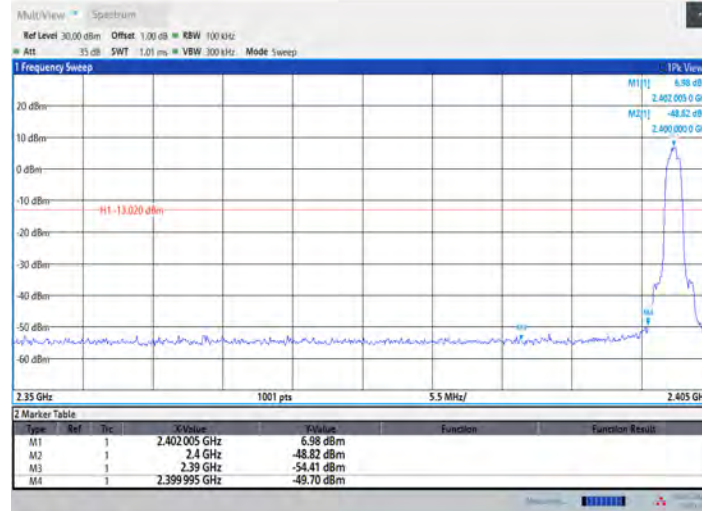
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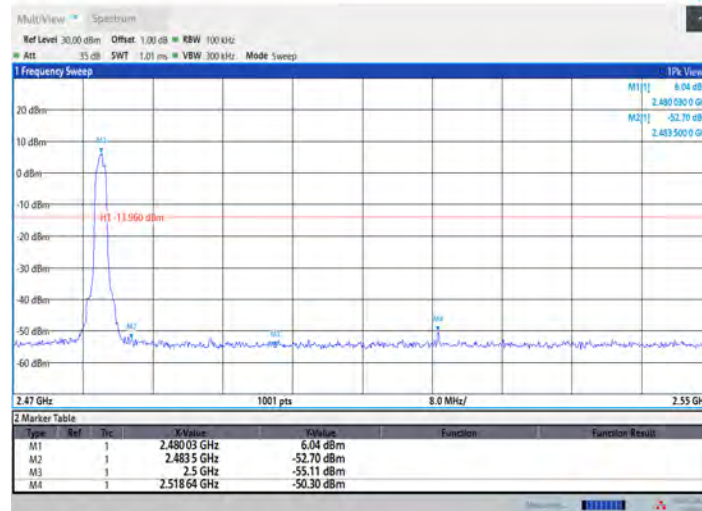
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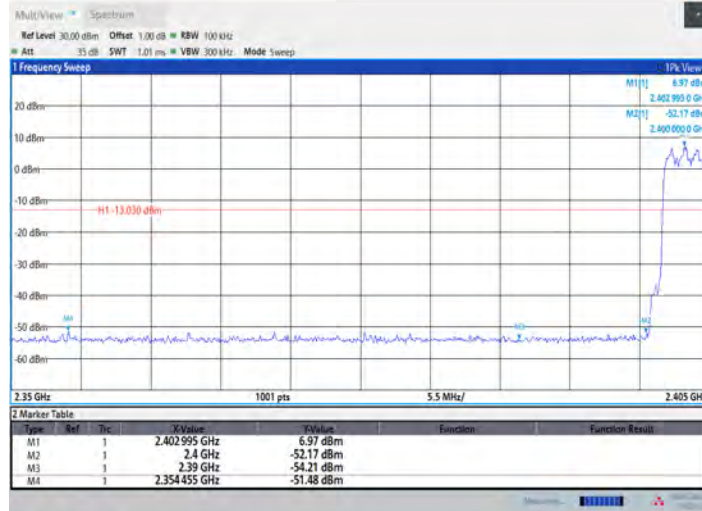
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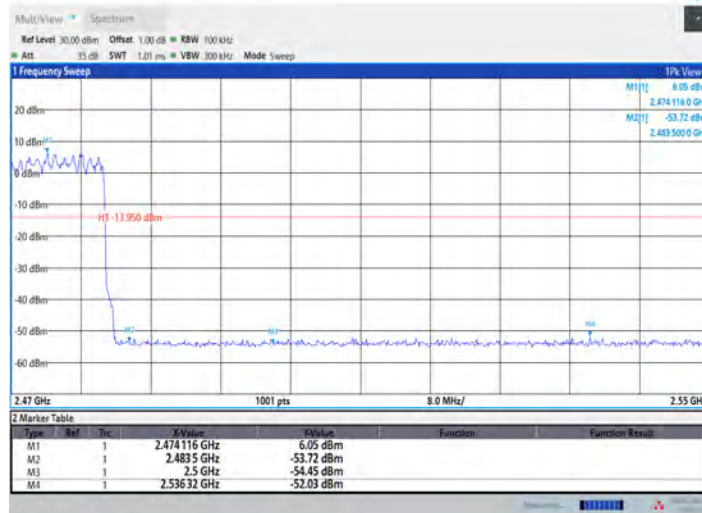
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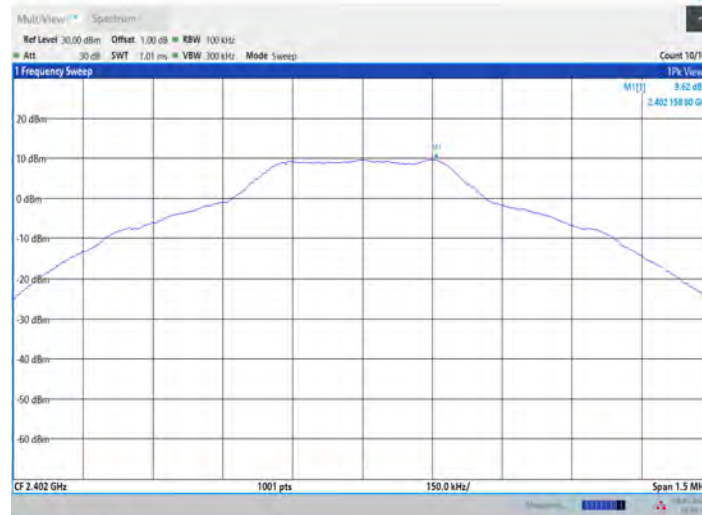
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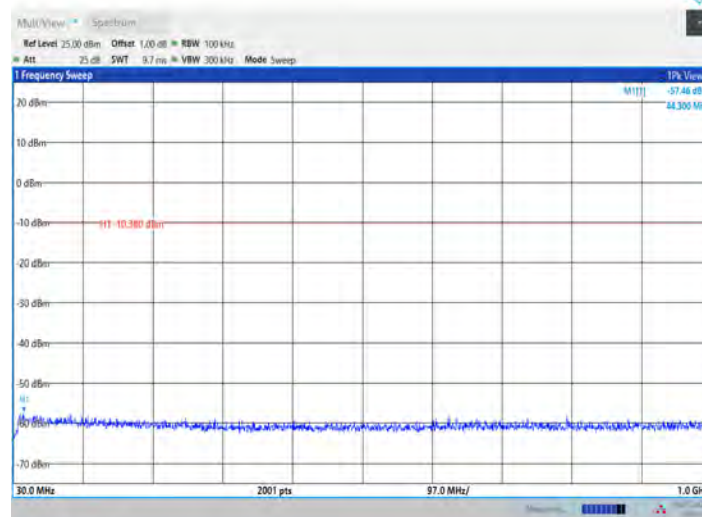
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Conducted Spurious Emission Test Graphs

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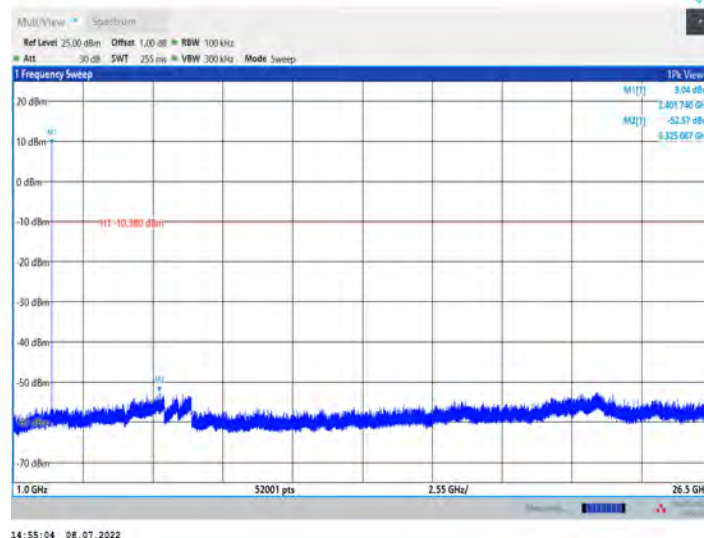
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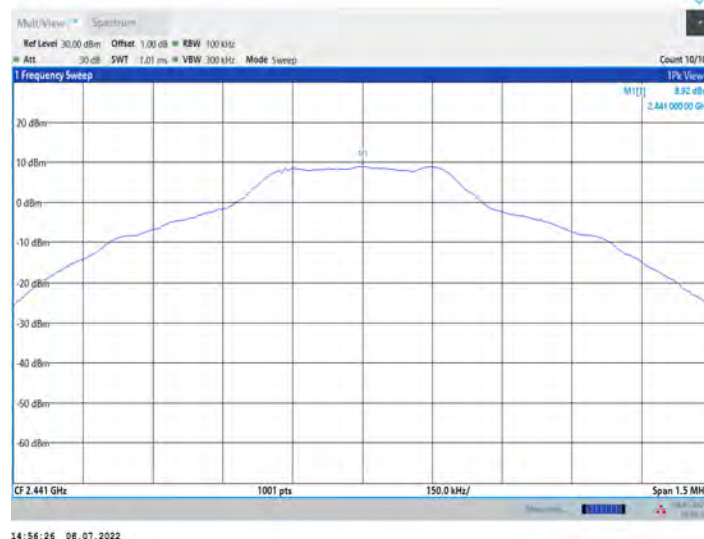
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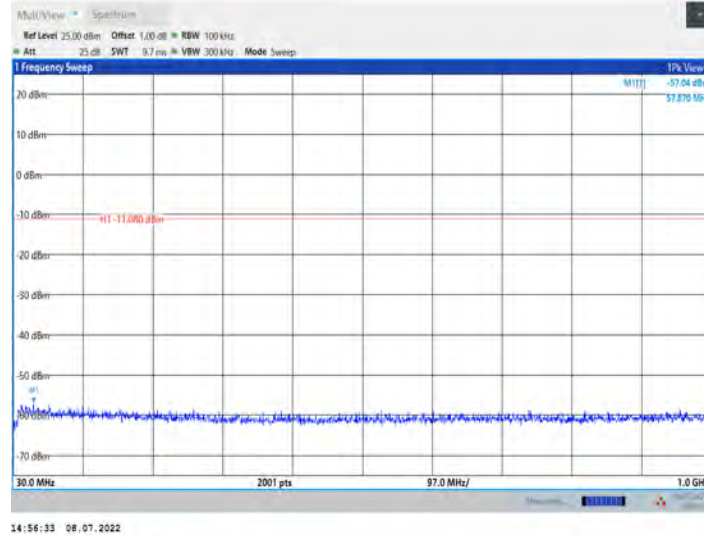
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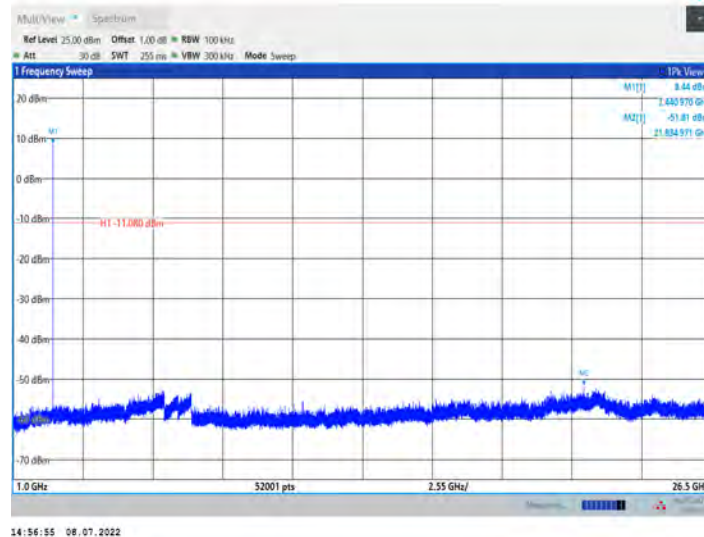
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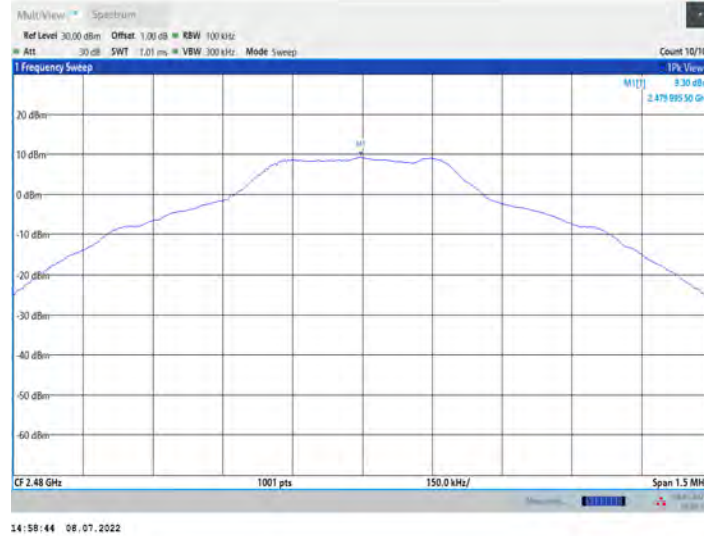
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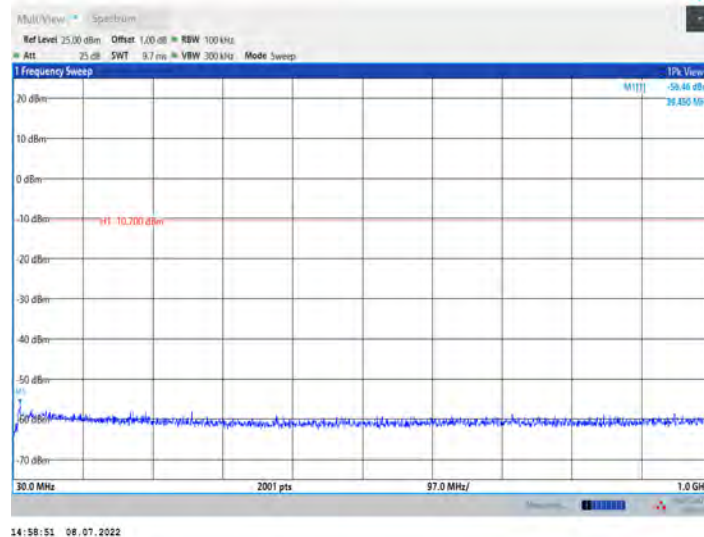
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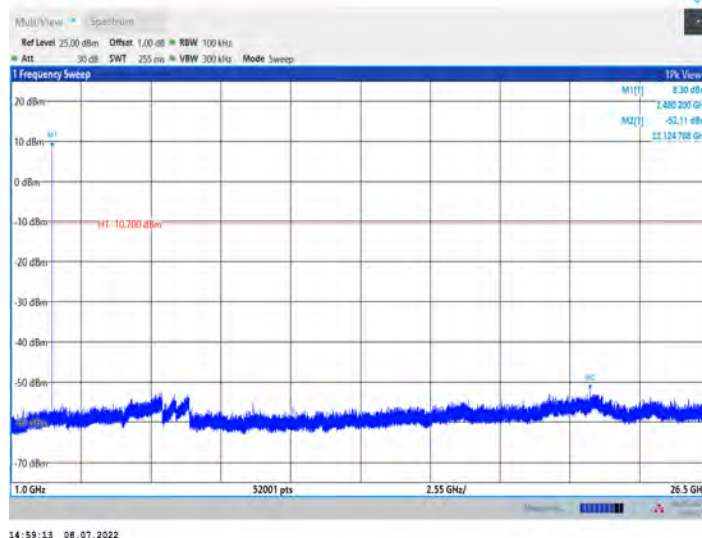
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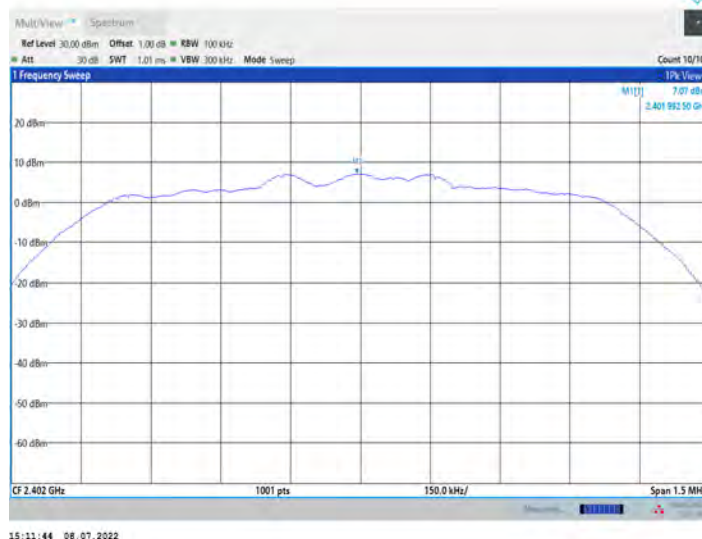
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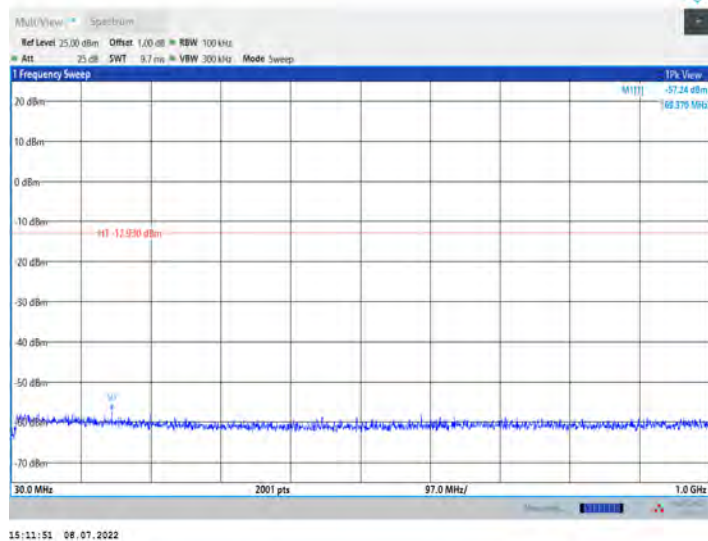
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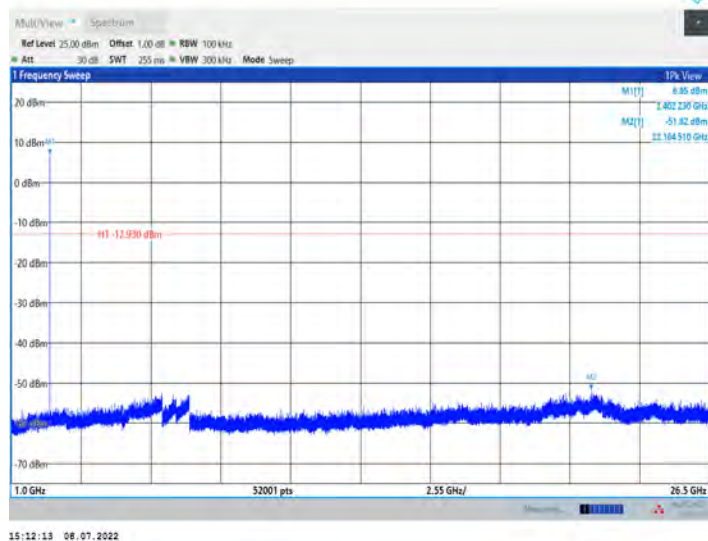
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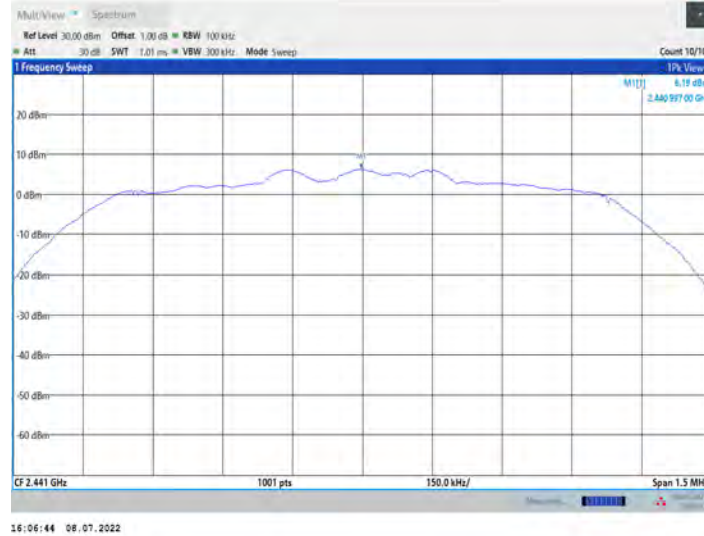
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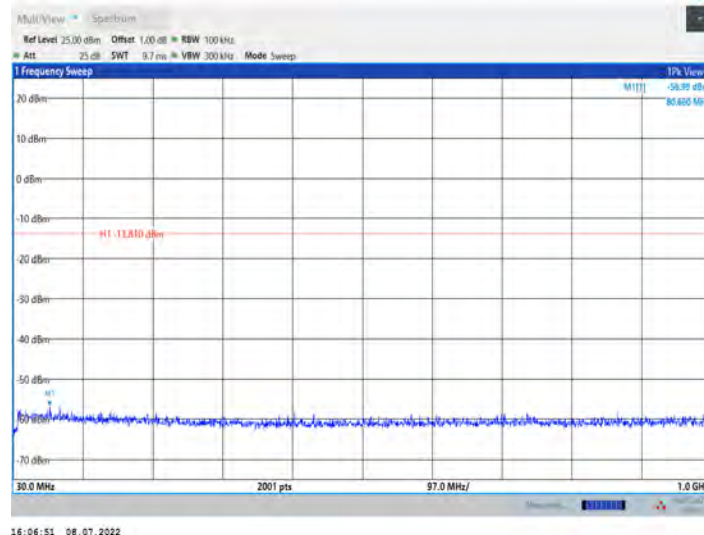
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16:06:44 08.07.2022

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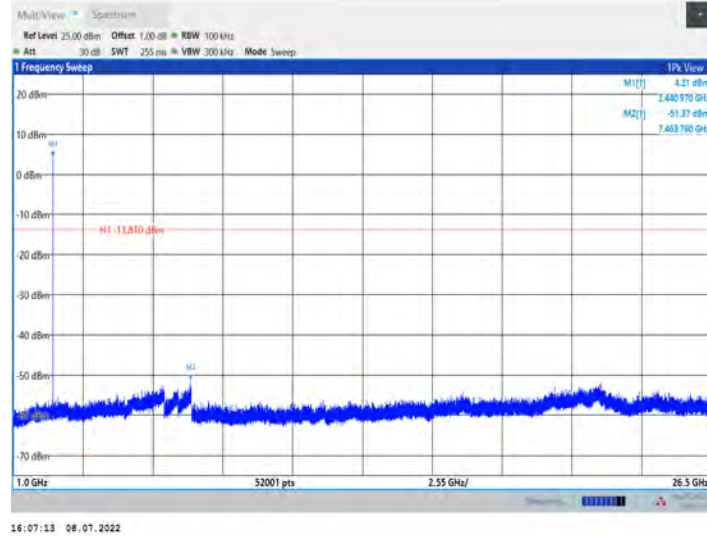
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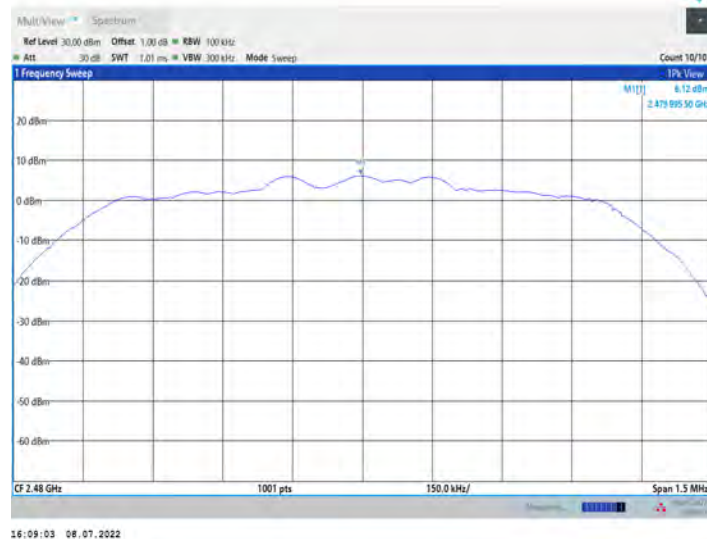
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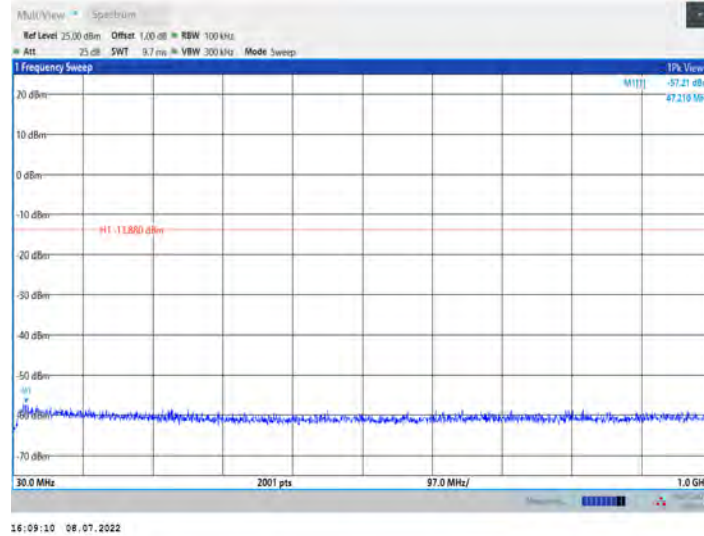
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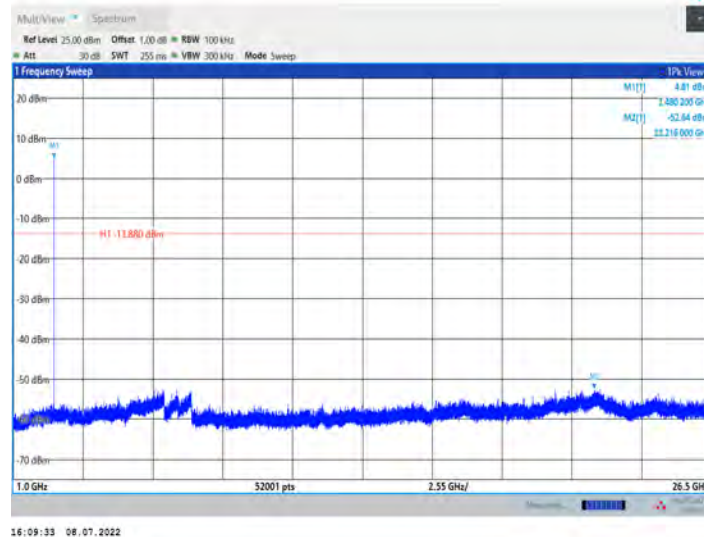
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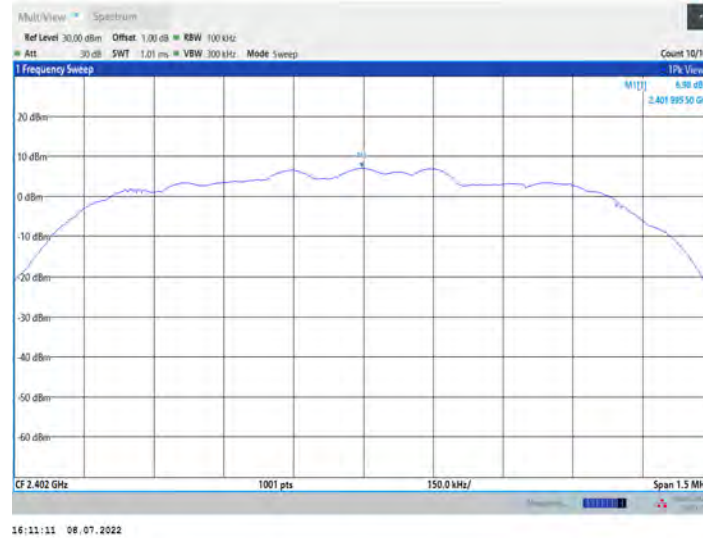
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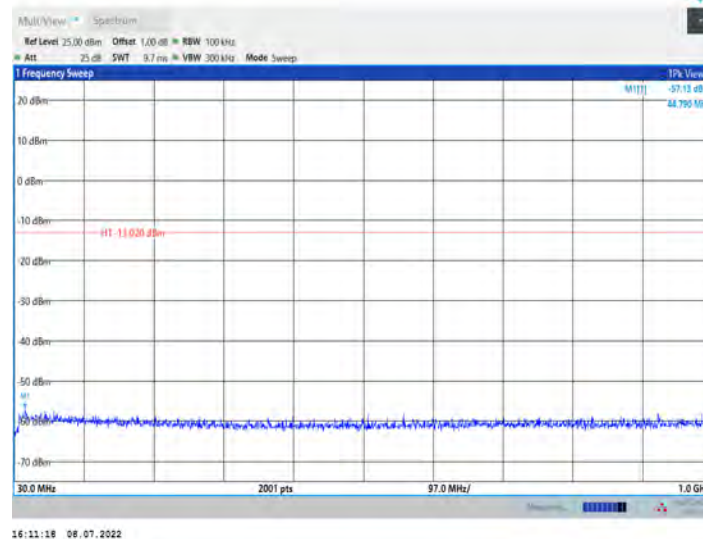
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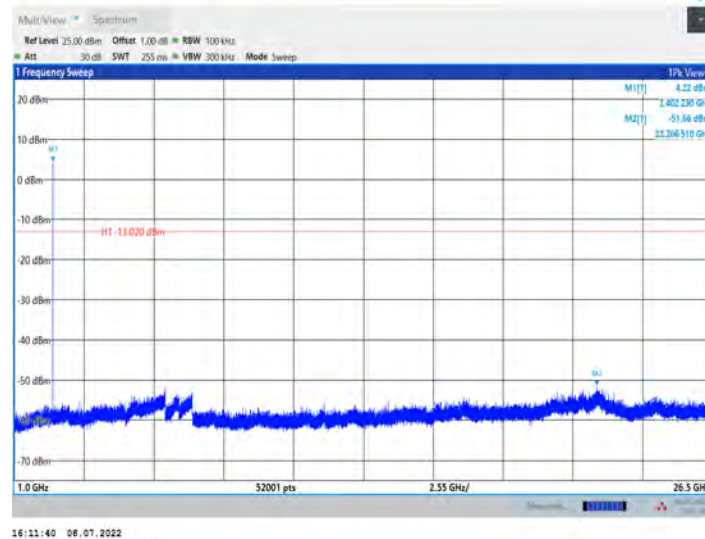
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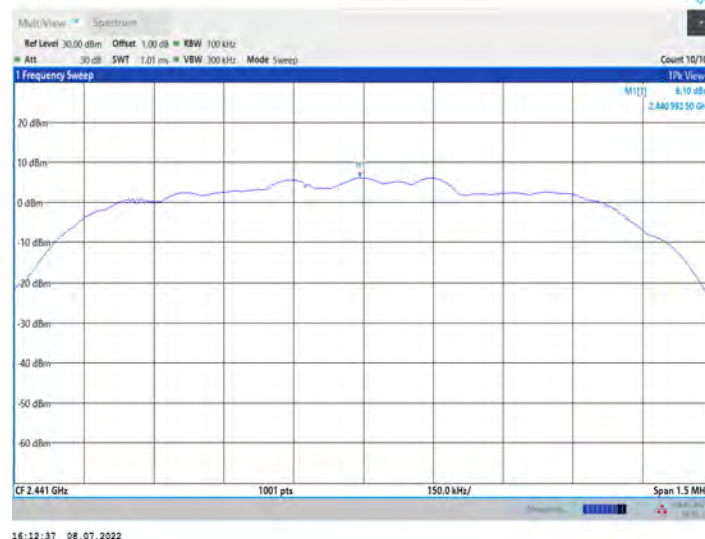
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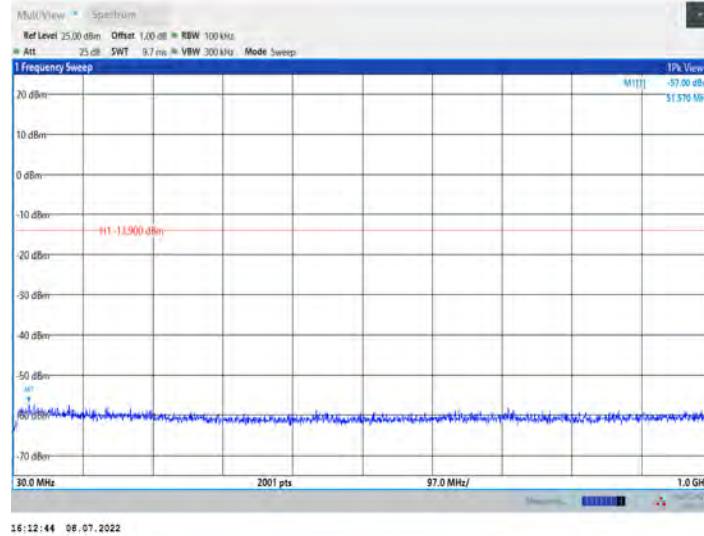
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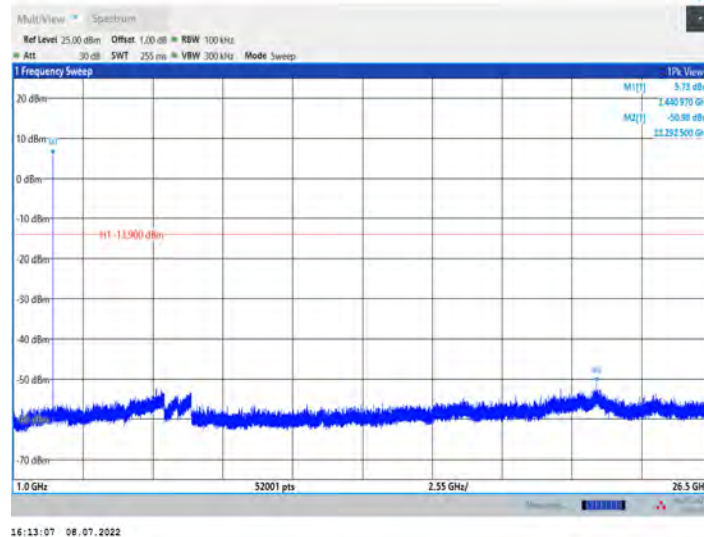
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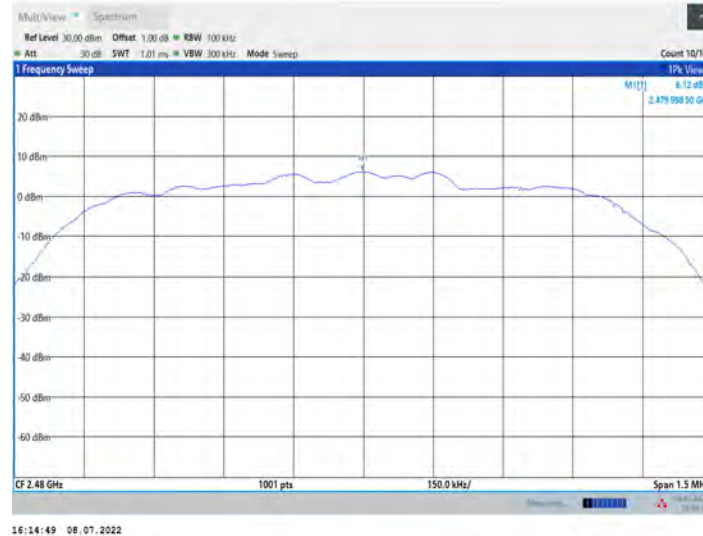
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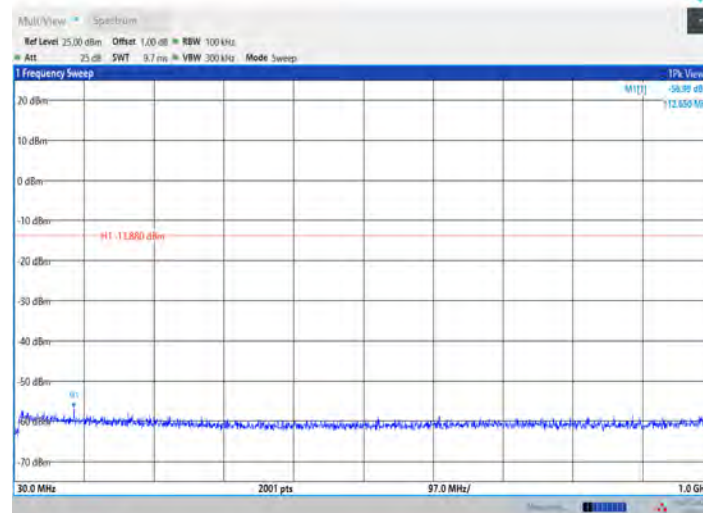
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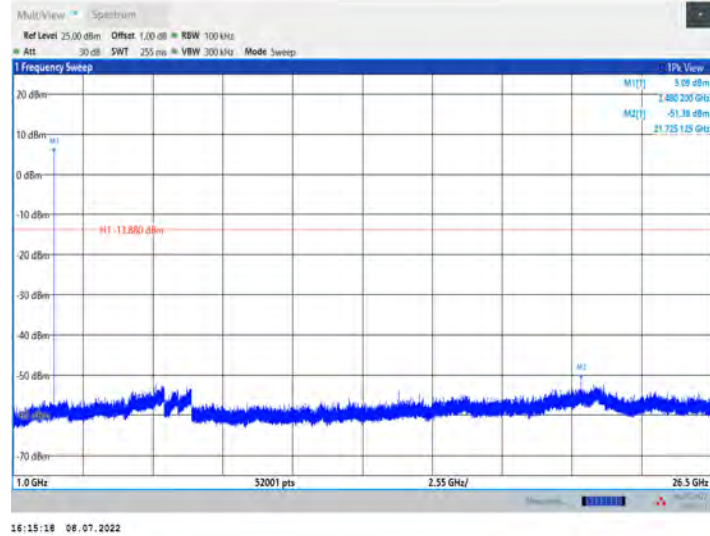
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Duty Cycle Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
DH5	Ant7	2402	2.88	3.75	76.80	1.15
		2441	2.89	3.76	76.86	1.14
		2480	2.89	3.76	76.86	1.14
2DH5	Ant7	2402	2.89	3.75	77.07	1.13
		2441	2.89	3.75	77.07	1.13
		2480	2.89	3.75	77.07	1.13
3DH5	Ant7	2402	2.89	3.75	77.07	1.13
		2441	2.90	3.76	77.13	1.13
		2480	2.89	3.75	77.07	1.13



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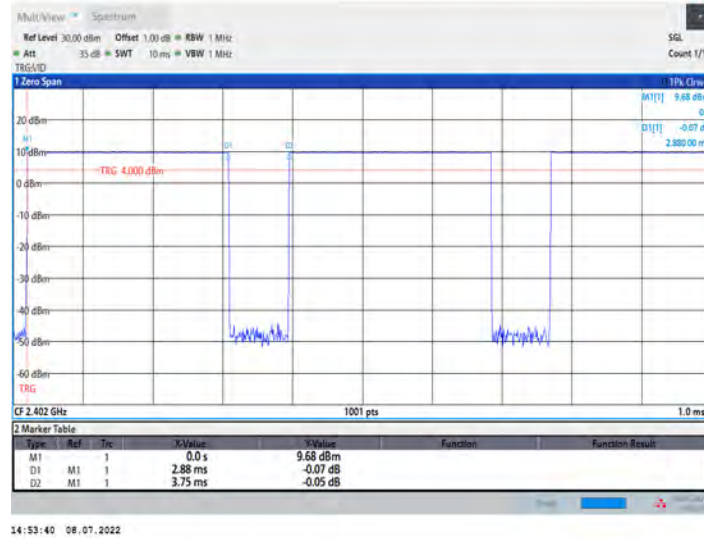
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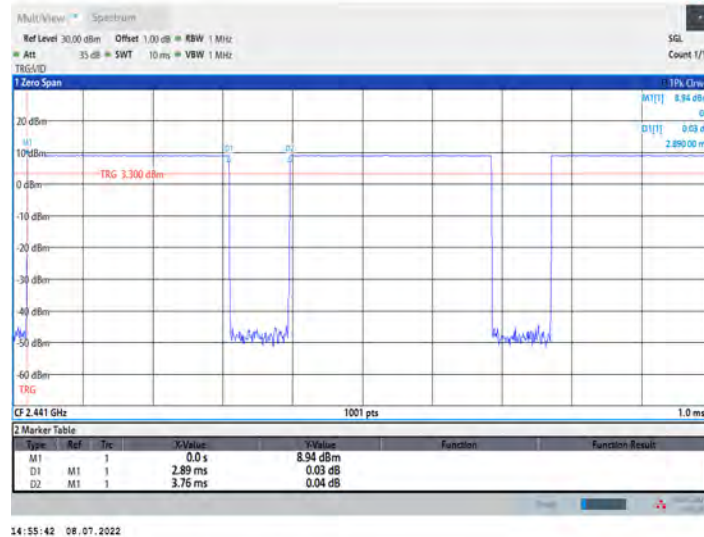
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Test Graphs

DH5_Ant7_2402



DH5_Ant7_2441



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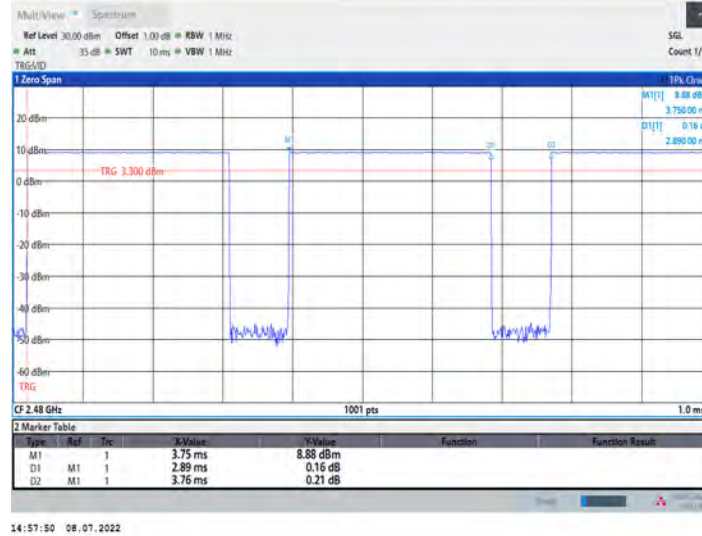
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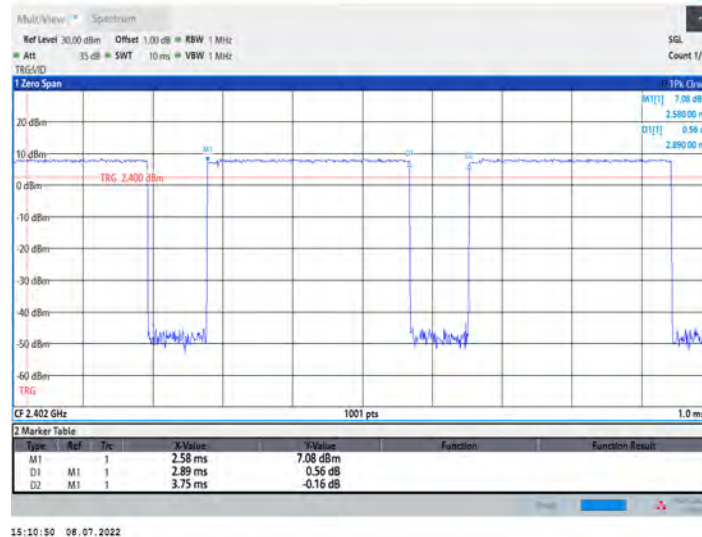
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DH5_Ant7_2480



2DH5_Ant7_2402



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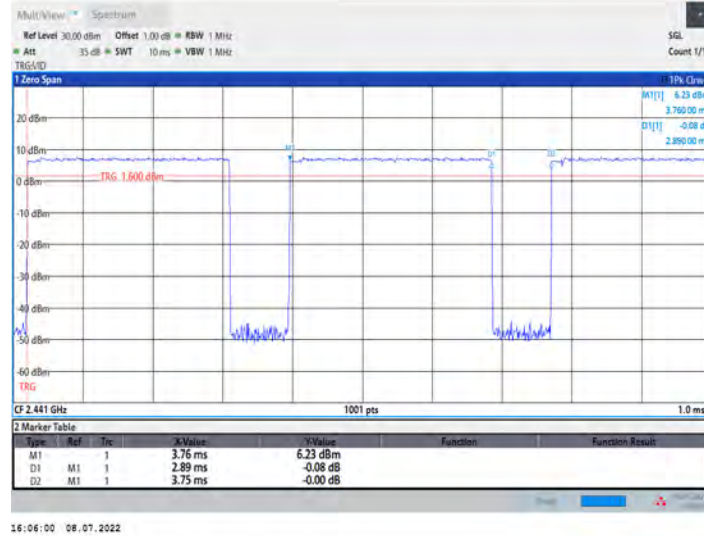
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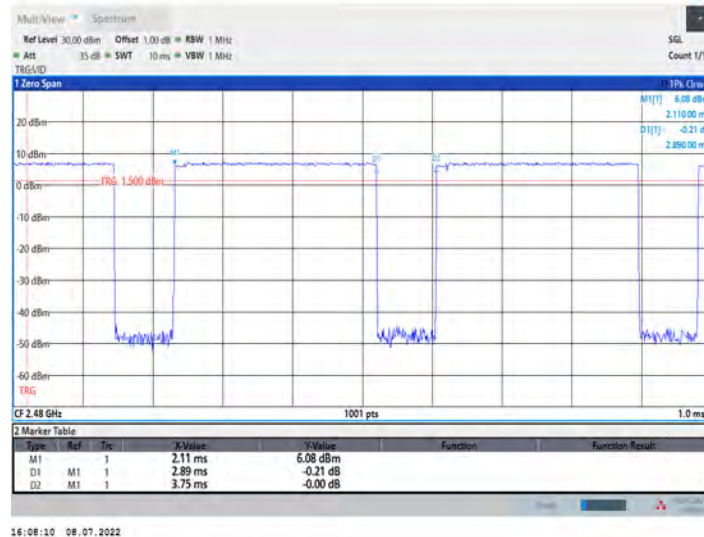
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2DH5_Ant7_2480



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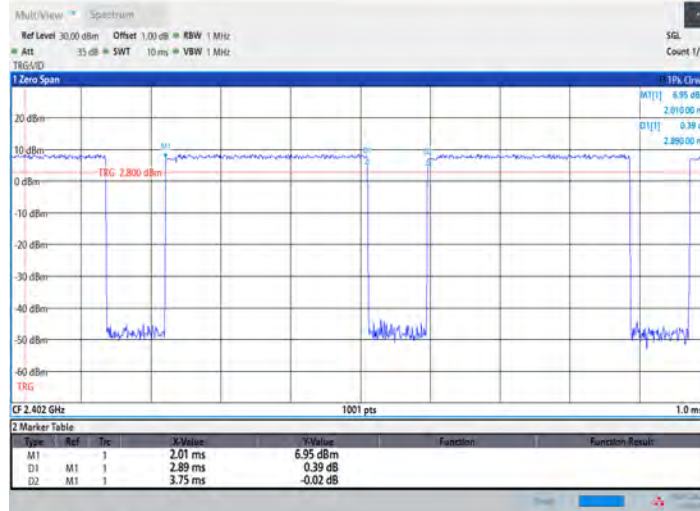
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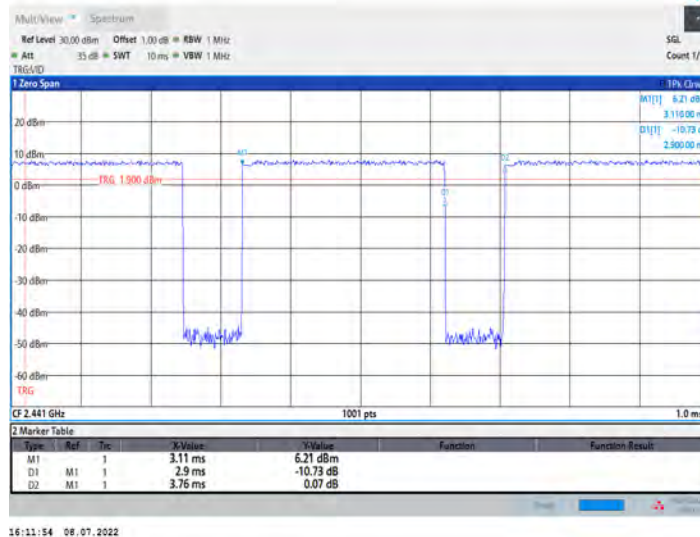
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3DH5_Ant7_2441



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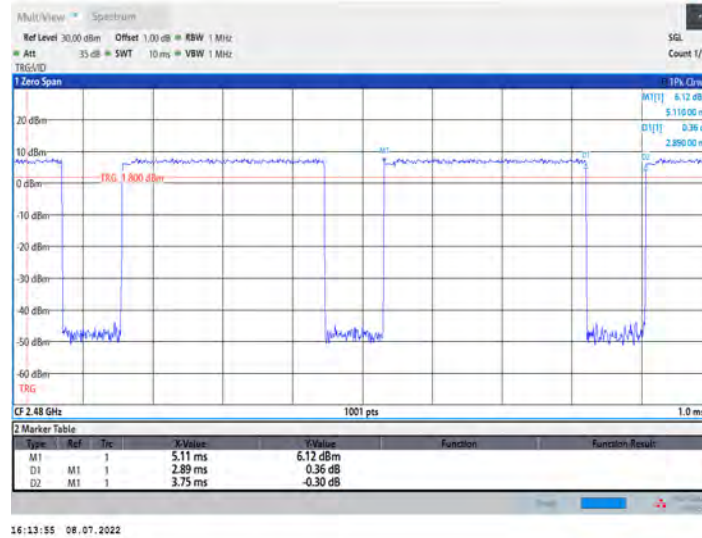
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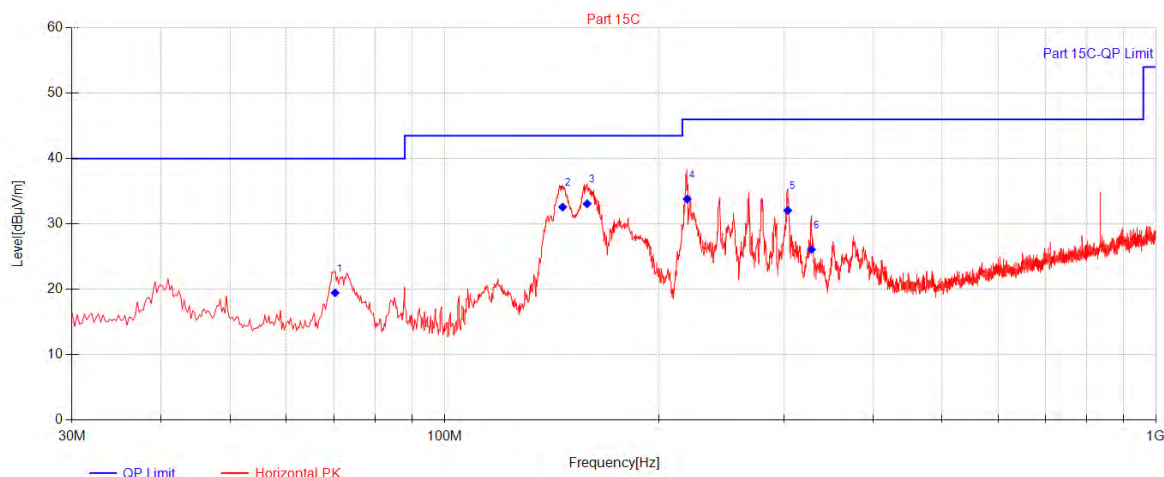
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Radiated Spurious Emissions

Radiated emission below 1GHz

For Sample #1:

Worst case Mode: GFSK _ Channel 78



Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	70.255	45.16	-36.50	10.78	19.44	40.00	20.56	266	12	Horizontal
2	146.6425	54.19	-35.34	13.72	32.57	43.50	10.93	215	12	Horizontal
3	158.7675	54.29	-35.31	14.10	33.08	43.50	10.42	185	196	Horizontal
4	219.3925	58.13	-34.89	10.55	33.79	46.00	12.21	147	183	Horizontal
5	303.7825	53.48	-34.30	12.88	32.06	46.00	13.94	159	146	Horizontal
6	328.0325	47.11	-34.40	13.38	26.09	46.00	19.91	123	153	Horizontal



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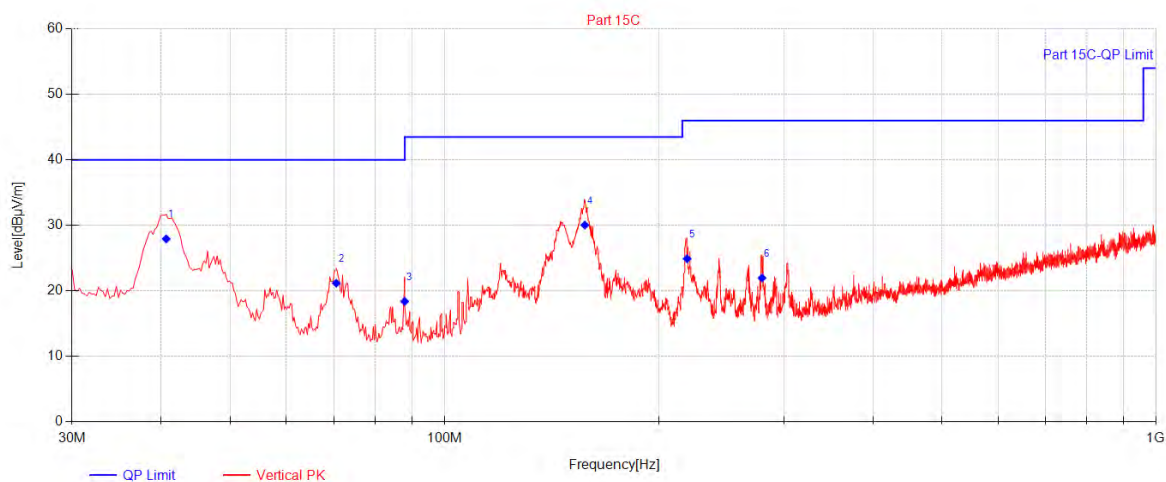
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Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	40.67	50.18	-36.26	14.01	27.93	40.00	12.07	126	226	Vertical
2	70.4975	46.89	-36.48	10.74	21.16	40.00	18.84	254	341	Vertical
3	87.9575	45.23	-36.27	9.41	18.37	40.00	21.63	148	165	Vertical
4	157.555	51.28	-35.30	14.06	30.04	43.50	13.46	196	172	Vertical
5	219.3925	49.23	-34.89	10.55	24.89	46.00	21.11	230	250	Vertical
6	279.5325	44.17	-34.52	12.30	21.95	46.00	24.05	255	135	Vertical



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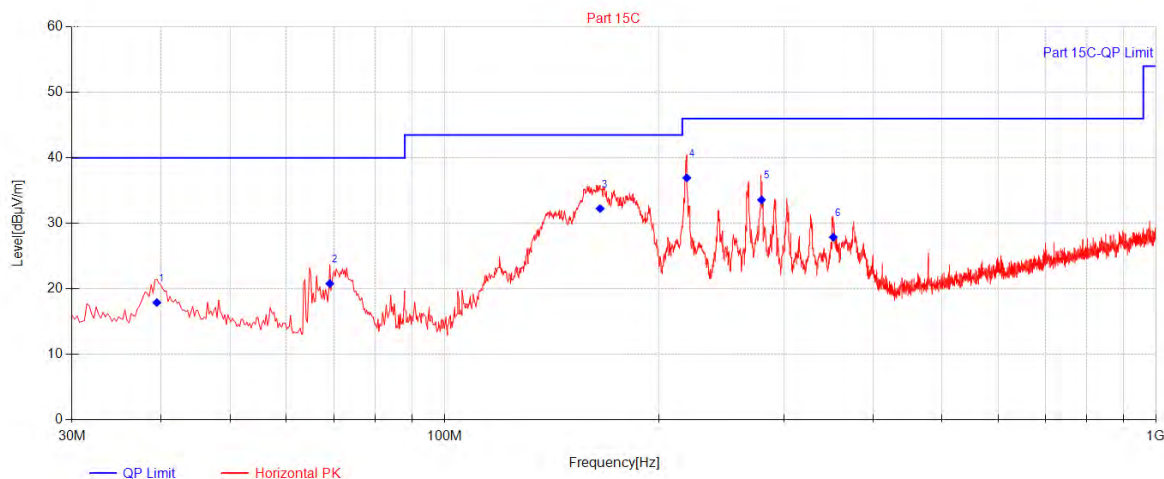
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For Sample #2:

Worst case Mode: GFSK _ Channel 78



Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	39.4575	40.19	-36.29	14.00	17.89	40.00	22.11	125	145	Horizontal
2	69.0425	46.29	-36.51	11.00	20.79	40.00	19.21	236	7	Horizontal
3	165.5575	53.18	-35.22	14.29	32.25	43.50	11.25	291	138	Horizontal
4	219.15	61.29	-34.89	10.54	36.94	46.00	9.06	148	272	Horizontal
5	279.0475	55.79	-34.50	12.28	33.58	46.00	12.42	172	341	Horizontal
6	352.04	48.13	-34.13	13.87	27.87	46.00	18.13	155	1	Horizontal



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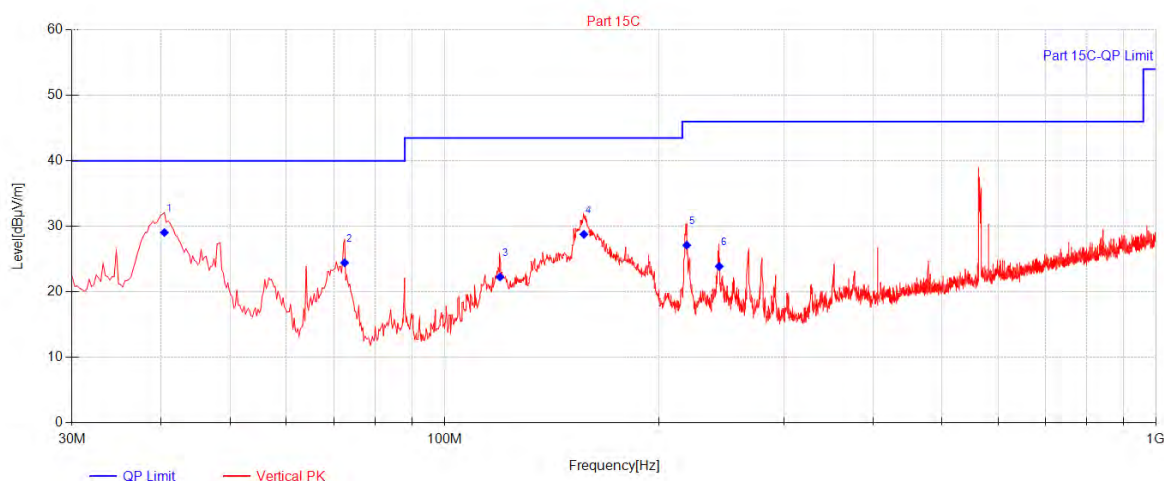
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NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	40.4275	51.29	-36.26	14.03	29.06	40.00	10.94	215	202	Vertical
2	72.4375	50.29	-36.30	10.45	24.43	40.00	15.57	236	327	Vertical
3	119.725	46.19	-36.15	12.21	22.25	43.50	21.25	261	0	Vertical
4	157.07	50.03	-35.29	14.05	28.78	43.50	14.72	148	195	Vertical
5	219.15	51.46	-34.89	10.54	27.11	46.00	18.89	175	18	Vertical
6	243.4	47.29	-34.76	11.35	23.88	46.00	22.12	199	11	Vertical



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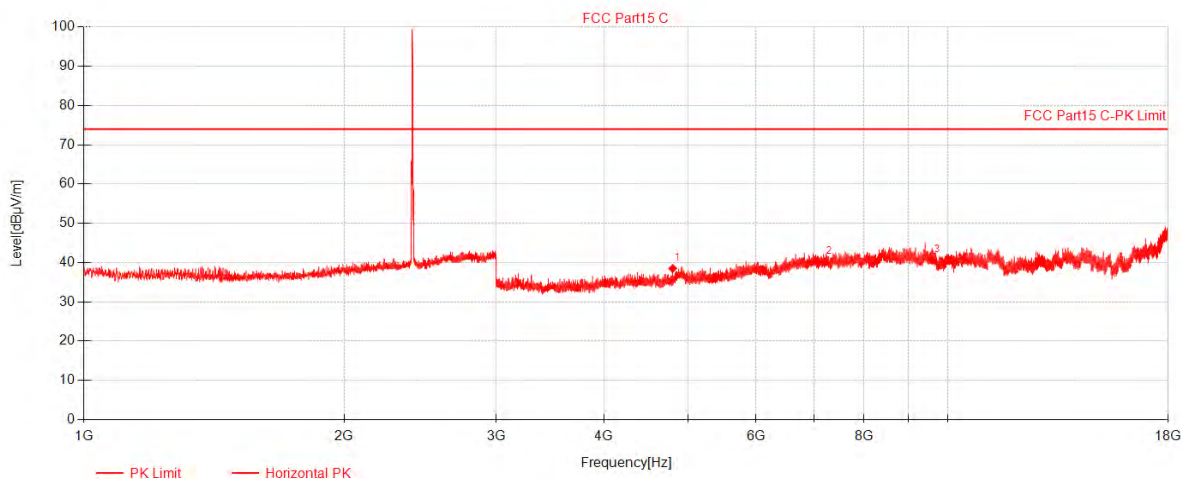
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Transmitter emission Above 1GHz

For Sample #1:

GFSK_Channel 00



Data List										
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1	4804.0000	51.72	32.33	-45.54	38.51	74.00	35.49	251	19	Horizontal
2	4804.0000	-	-	-	14.10	54.00	39.90	-	-	Horizontal
3	7206.0000	46.95	36.60	-43.44	40.11	74.00	33.89	146	325	Horizontal
4	7206.0000	-	-	-	15.70	54.00	38.30	-	-	Horizontal
5	9608.0000	41.77	38.43	-39.65	40.55	74.00	33.45	195	54	Horizontal
6	9608.0000	-	-	-	16.14	54.00	37.86	-	-	Horizontal



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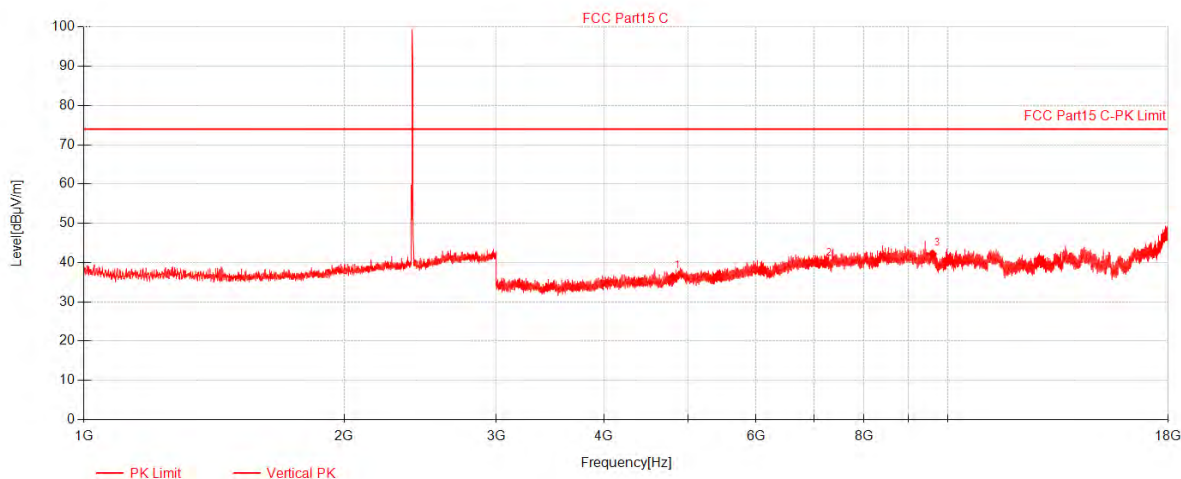
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GFSK_Channel 00



Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4804.0000	49.66	32.33	-45.54	36.45	74.00	37.55	177	144	Vertical
2	4804.0000	-	-	-	12.04	54.00	41.96	-	-	Vertical
3	7206.0000	46.48	36.60	-43.44	39.64	74.00	34.36	142	180	Vertical
4	7206.0000	-	-	-	15.23	54.00	38.77	-	-	Vertical
5	9608.0000	43.42	38.43	-39.65	42.20	74.00	31.80	231	215	Vertical
6	9608.0000	-	-	-	17.79	54.00	36.21	-	-	Vertical



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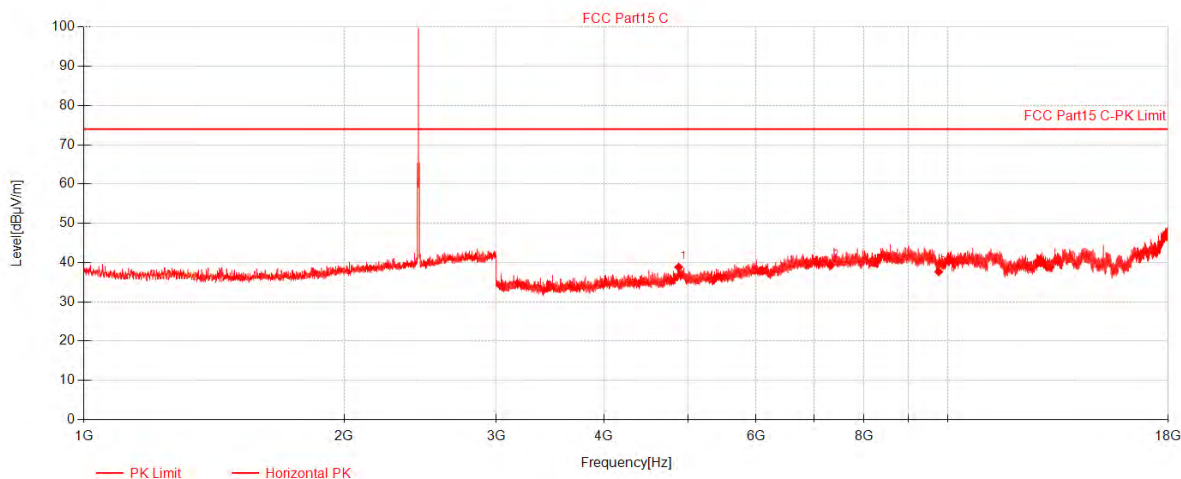
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GFSK_Channel 39



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4882.0000	51.83	32.55	-45.53	38.85	74.00	35.15	216	53	Horizontal
2	4882.0000	-	-	-	14.44	54.00	39.56	-	-	Horizontal
3	7323.0000	46.44	36.53	-43.67	39.30	74.00	34.70	239	181	Horizontal
4	7323.0000	-	-	-	14.89	54.00	39.11	-	-	Horizontal
5	9764.0000	38.88	38.26	-39.47	37.67	74.00	36.33	148	72	Horizontal
6	9764.0000	-	-	-	13.26	54.00	40.74	-	-	Horizontal



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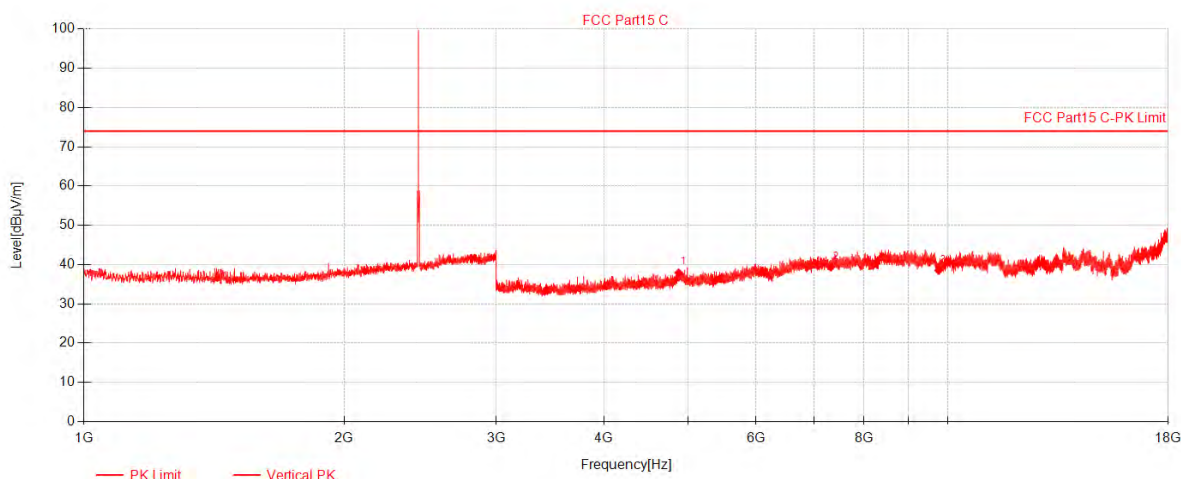
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Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4882.0000	50.89	32.55	-45.53	37.91	74.00	36.09	145	112	Vertical
2	4882.0000	-	-	-	13.50	54.00	40.50	-	-	Vertical
3	7323.0000	46.48	36.53	-43.67	39.34	74.00	34.66	235	7	Vertical
4	7323.0000	-	-	-	14.93	54.00	39.07	-	-	Vertical
5	9764.0000	39.72	38.26	-39.47	38.51	74.00	35.49	126	152	Vertical
6	9764.0000	-	-	-	14.10	54.00	39.90	-	-	Vertical



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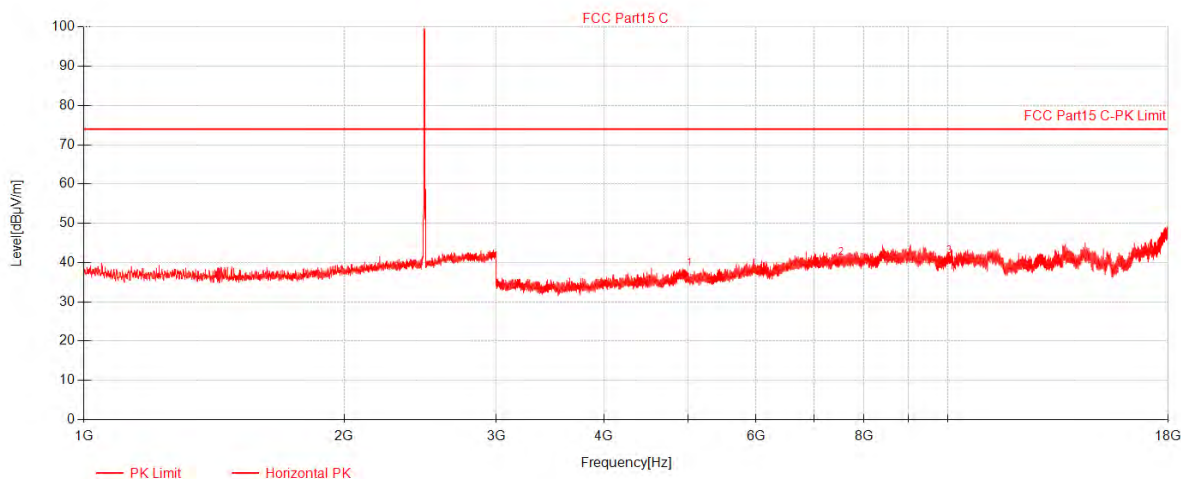
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GFSK_Channel 78



Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4960.0000	49.97	32.77	-45.60	37.14	74.00	36.86	122	19	Horizontal
2	4960.0000	-	-	-	12.73	54.00	41.27	-	-	Horizontal
3	7440.0000	46.84	36.47	-43.30	40.01	74.00	33.99	245	142	Horizontal
4	7440.0000	-	-	-	15.60	54.00	38.40	-	-	Horizontal
5	9920.0000	41.24	38.38	-39.31	40.31	74.00	33.69	293	199	Horizontal
6	9920.0000	-	-	-	15.90	54.00	38.10	-	-	Horizontal



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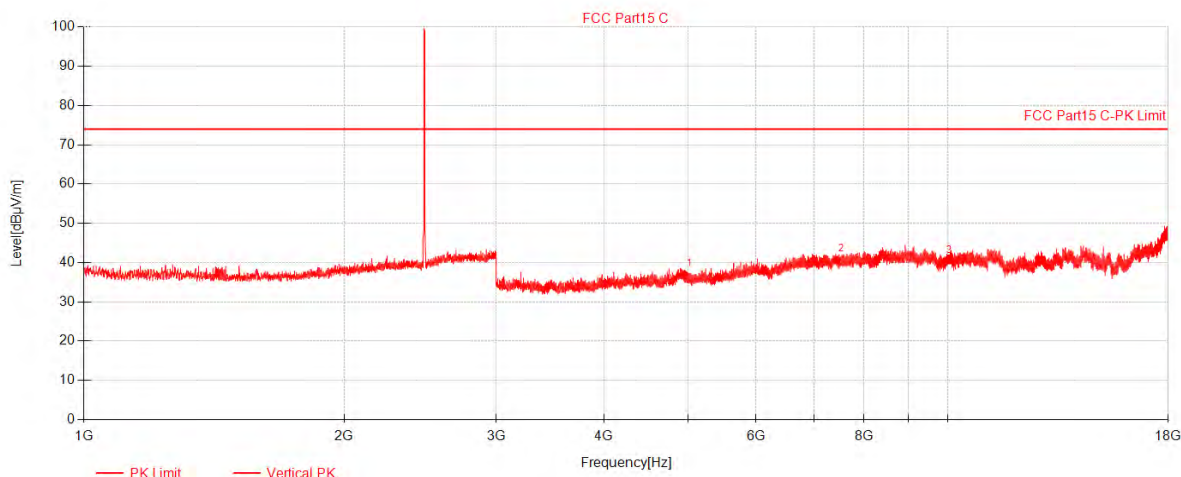
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GFSK_Channel 78



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4960.0000	49.88	32.77	-45.60	37.05	74.00	36.95	195	357	Vertical
2	4960.0000	-	-	-	12.64	54.00	41.36	-	-	Vertical
3	7440.0000	47.52	36.47	-43.30	40.69	74.00	33.31	145	160	Vertical
4	7440.0000	-	-	-	16.28	54.00	37.72	-	-	Vertical
5	9920.0000	41.36	38.38	-39.31	40.43	74.00	33.57	177	90	Vertical
6	9920.0000	-	-	-	16.02	54.00	37.98	-	-	Vertical



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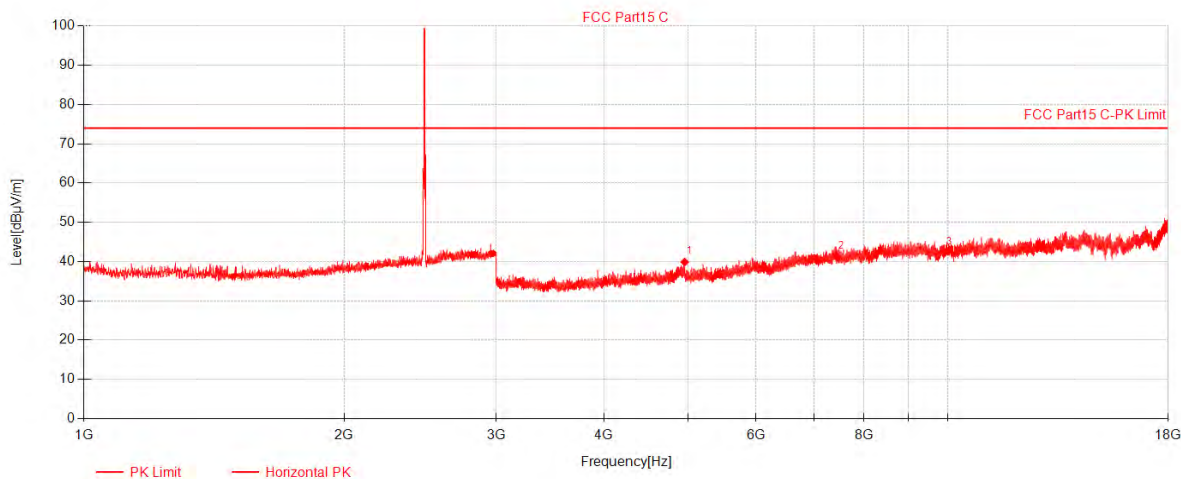
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For Sample #2:

GFSK_Channel 78



Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4960.0000	52.70	32.77	-45.60	39.87	74.00	34.13	184	288	Horizontal
2	4960.0000	-	-	-	15.46	54.00	38.54	-	-	Horizontal
3	7440.0000	48.02	36.47	-43.30	41.19	74.00	32.81	195	180	Horizontal
4	7440.0000	-	-	-	16.78	54.00	37.22	-	-	Horizontal
5	9920.0000	43.21	38.38	-39.31	42.28	74.00	31.72	172	55	Horizontal
6	9920.0000	-	-	-	17.87	54.00	36.13	-	-	Horizontal



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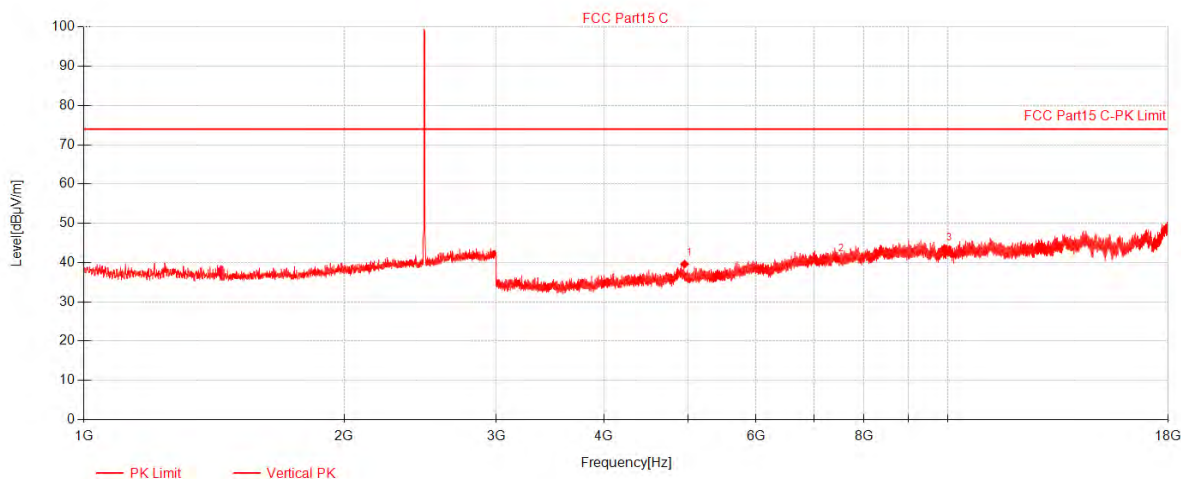
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GFSK_Channel 78



Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4960.0000	52.45	32.77	-45.60	39.62	74.00	34.38	172	251	Vertical
2	4960.0000	-	-	-	15.21	54.00	38.79	-	-	Vertical
3	7440.0000	47.72	36.47	-43.30	40.89	74.00	33.11	196	234	Vertical
4	7440.0000	-	-	-	16.48	54.00	37.52	-	-	Vertical
5	9920.0000	44.55	38.38	-39.31	43.62	74.00	30.38	154	233	Vertical
6	9920.0000	-	-	-	19.21	54.00	34.79	-	-	Vertical

Remark:

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

Level = Reading Level(dBμV) + AF(dB/m) + Factor(dB):

Factor = Cable Factor(dB) - Preamplifier gain(dB)

AF = Antenna Factor(dB/m)

Margin = Limit(dBμV/m) – Level(dBμV/m)



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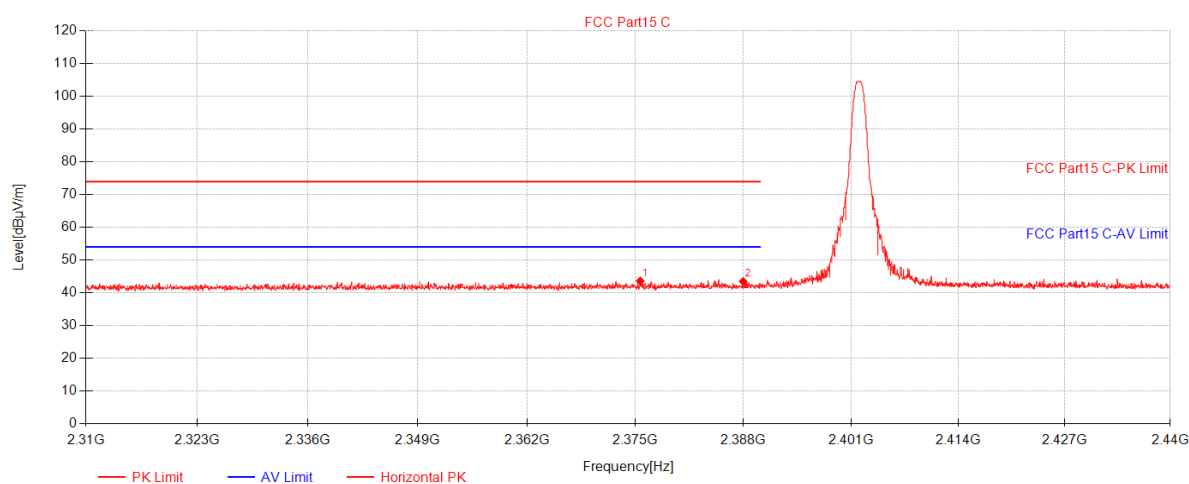
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Restricted bands around fundamental frequency

For Sample #1:

GFSK_Channel 00



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2375.5633	39.75	27.43	-23.57	43.61	74.00	30.39	152	335	Horizontal
2	2375.5633	-	-	-	19.20	54.00	34.80	-	-	Horizontal
3	2387.9567	39.60	27.43	-23.57	43.46	74.00	30.54	152	335	Horizontal
4	2387.9567	-	-	-	19.05	54.00	34.95	-	-	Horizontal



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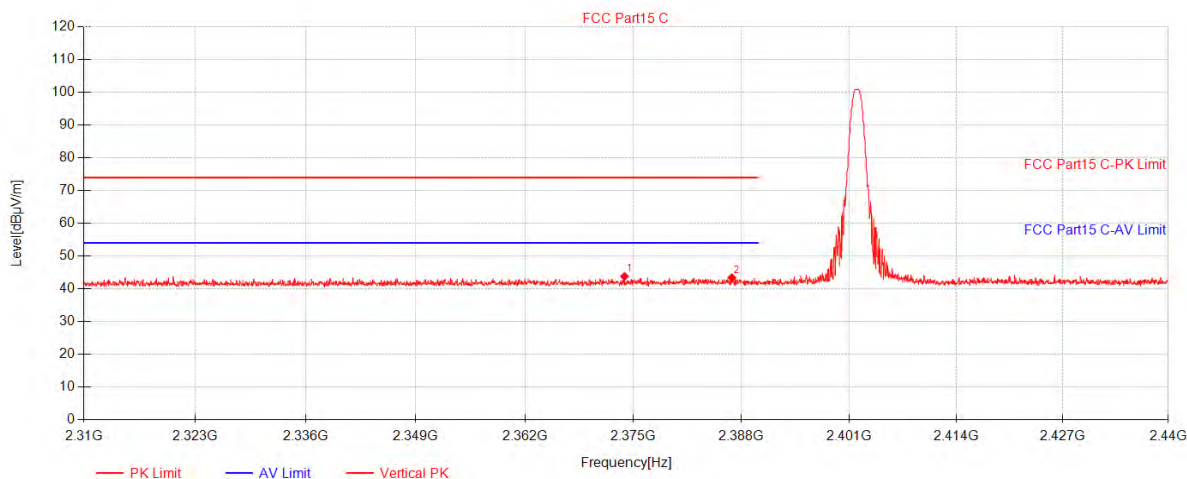
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GFSK_Channel 00



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2373.9167	39.92	27.43	-23.57	43.77	74.00	30.23	133	153	Vertical
2	2373.9167	-	-	-	19.36	54.00	34.64	-	-	Vertical
3	2386.83	39.52	27.43	-23.57	43.38	74.00	30.62	133	153	Vertical
4	2386.83	-	-	-	18.97	54.00	35.03	-	-	Vertical



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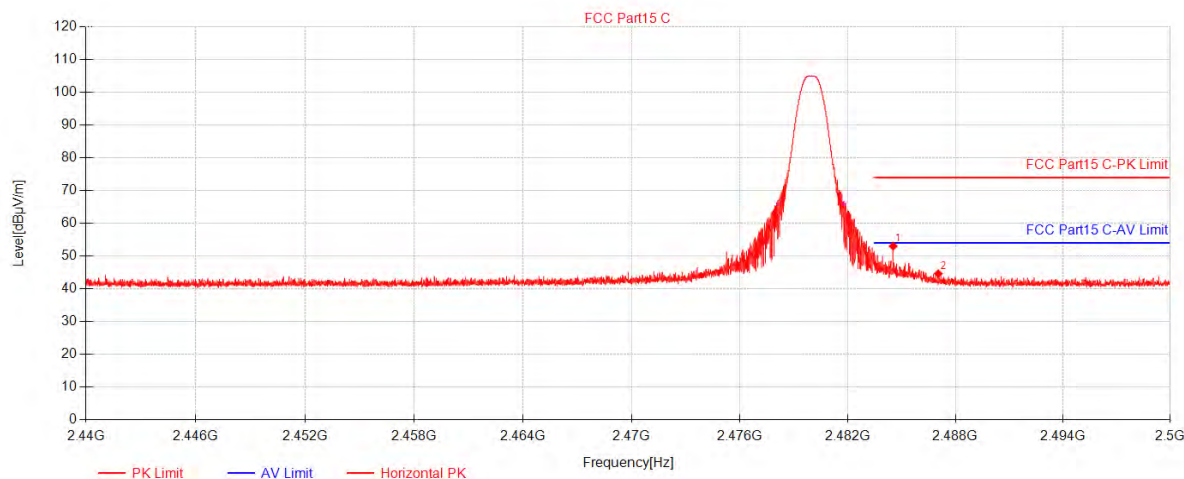
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Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2484.535	48.86	27.72	-23.54	53.03	74.00	20.97	157	233	Horizontal
2	2484.535	-	-	-	28.62	54.00	25.38	-	-	Horizontal
3	2487.0475	40.42	27.73	-23.54	44.60	74.00	29.40	157	233	Horizontal
4	2487.0475	-	-	-	20.19	54.00	33.81	-	-	Horizontal



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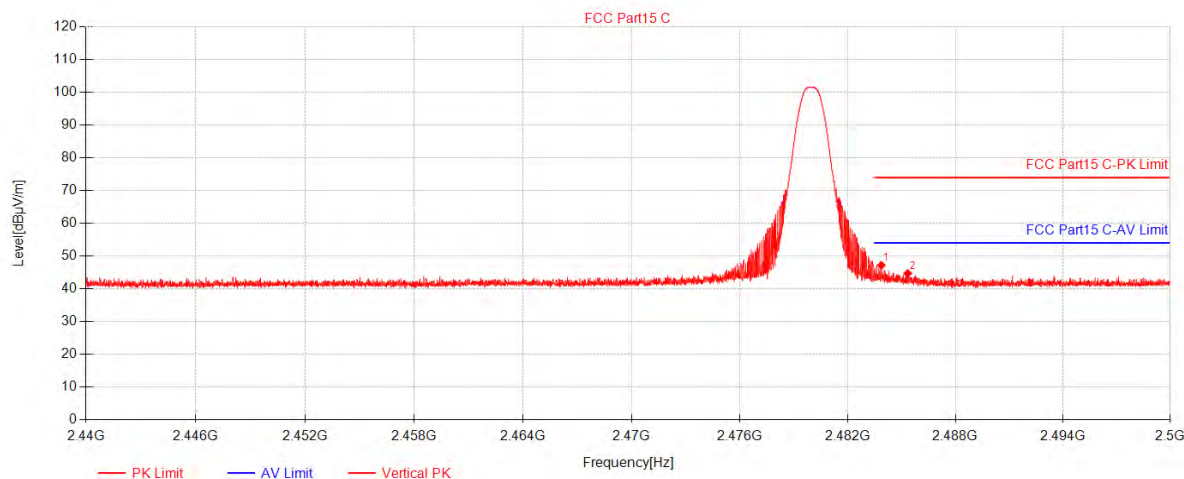
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Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.875	43.02	27.72	-23.54	47.19	74.00	26.81	196	221	Vertical
2	2483.875	-	-	-	22.78	54.00	31.22	-	-	Vertical
3	2485.345	40.50	27.72	-23.54	44.68	74.00	29.32	196	221	Vertical
4	2485.345	-	-	-	20.27	54.00	33.73	-	-	Vertical



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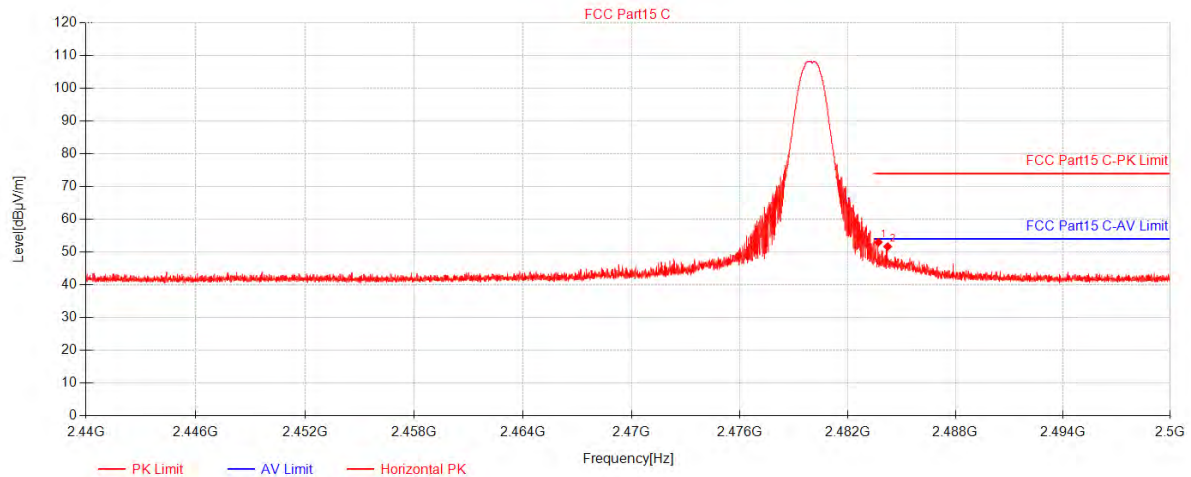
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For Sample #2:

GFSK_Channel 78



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.71	48.83	27.72	-23.54	53.00	74.00	21.00	266	313	Horizontal
2	2483.71	-	-	-	28.59	54.00	25.41	-	-	Horizontal
3	2484.2275	47.49	27.72	-23.54	51.66	74.00	22.34	266	313	Horizontal
4	2484.2275	-	-	-	27.25	54.00	26.75	-	-	Horizontal



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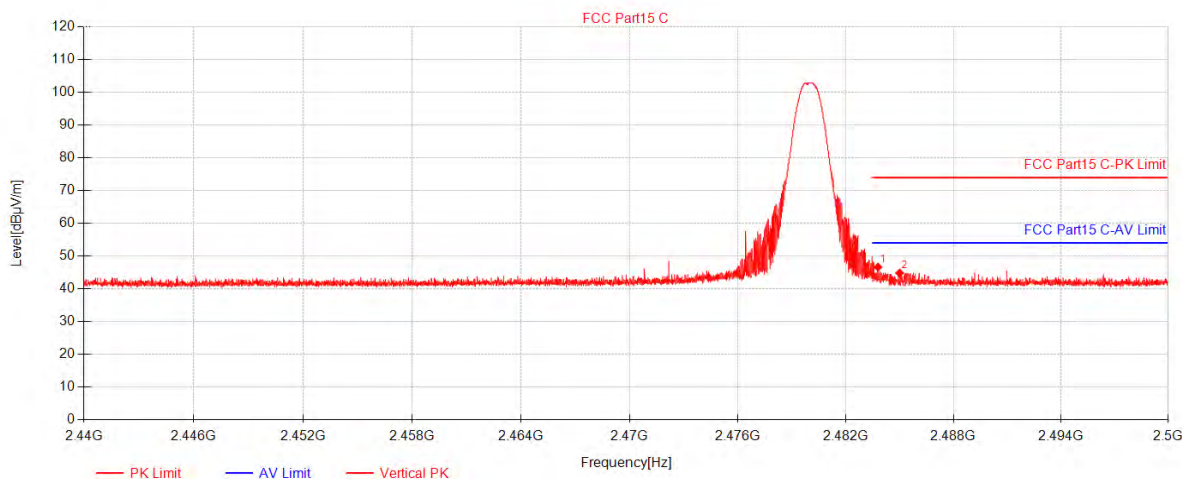
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GFSK_Channel 78



Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.8	42.46	27.72	-23.54	46.63	74.00	27.37	248	256	Vertical
2	2483.8	-	-	-	22.22	54.00	31.78	-	-	Vertical
3	2485.0075	40.64	27.72	-23.54	44.82	74.00	29.18	248	256	Vertical
4	2485.0075	-	-	-	20.41	54.00	33.59	-	-	Vertical

Remark:

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

Level = Reading Level(dBμV) + AF(dB/m) + Factor(dB):

Factor = Cable Factor(dB) - Pre-amplifier gain(dB)

AF = Antenna Factor(dB/m)

Margin = Limit(dBμV/m) – Level(dBμV/m)

The End



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