

RADIO TEST REPORT

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Report No.: STS2203020W01

Issued for

ShenZhen YuYuanXin Electronic Technology Co., LTD

Building 11, Tianluohu Industry Park, Guihua Industry Area, Guanguang Road, Guanlan Town, Longhua District, Shenzhen, Guangdong China

Product Name:	JOY-PDA(L)/(R)	
Brand Name:	ne: N/A	
Model Name:	TNS-19053S	
Series Model:	TNS-19053, TNS-19053B, TNS-19053D, TNS-1864, TNS-1864B, TNS-19185, TNS-19185B, PGWG-555, 19053S	
FCC ID:	2AJJCTNS-19053S	
Test Standard:	FCC Part 15.247	

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TEST RESULT CERTIFICATION

Applicant's Name:	ShenZhen YuYuanXin Electronic Technology Co., LTD
Address	Building 11, Tianluohu Industry Park, Guihua Industry Area, Guanguang Road, Guanlan Town, Longhua District, Shenzhen, Guangdong China
Manufacturer's Name:	ShenZhen YuYuanXin Electronic Technology Co., LTD
Address	Building 11, Tianluohu Industry Park, Guihua Industry Area, Guanguang Road, Guanlan Town, Longhua District, Shenzhen, Guangdong China
Product Description	
Product Name:	JOY-PDA(L)/(R)
Brand Name	N/A
Model Name:	TNS-19053S
Series Model	TNS-19053, TNS-19053B, TNS-19053D, TNS-1864, TNS-1864B, TNS-19185, TNS-19185B, PGWG-555, 19053S
Test Standards	FCC Part15.247
Test Procedure	ANSI C63.10-2013

This device described above has been tested by STS, the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Date of Test.....

Date of receipt of test item...... 22 July 2022

Date (s) of performance of tests .: 22 July 2022 ~ 18 Aug. 2022

Date of Issue 18 Aug. 2022

Test Result Pass

Testing Engineer

(Chris Chen)

Technical Manager :

(Sean she)

APPROVAL 6

Authorized Signatory :

(Bovey Yang)

Shenzhen STS Test Services Co., Ltd.

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Revision History

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	18 Aug. 2022	STS2203020W01	ALL	Initial Issue



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1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards: KDB 558074 D01 15.247 Meas Guidance v05r02.

	FCC Part 15.247,Subpart C				
Standard Section	Test Item	Judgment	Remark		
15.207	Conducted Emission	PASS			
15.247(a)(1)	Hopping Channel Separation	PASS			
15.247(a)(1)&(b)(1)	Output Power	PASS			
15.209	Radiated Spurious Emission	PASS			
15.247(d)	Conducted Spurious & Band Edge Emission	PASS			
15.247(a)(1)(iii)	Number of Hopping Frequency	PASS			
15.247(a)(1)(iii)	Dwell Time	PASS			
15.247(a)(1)	Bandwidth	PASS			
15.205	Restricted bands of operation	PASS			
Part 15.247(d)/part 15.209(a)	Band Edge Emission	PASS			
15.203	Antenna Requirement	PASS			

NOTE:

(1) 'N/A' denotes test is not applicable in this Test Report.

(2) All tests are according to ANSI C63.10-2013.



1.1 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD Add. : A 1/F, Building B, Zhuoke Science Park, No.190 Chongqing Road, HepingShequ, Fuyong Sub-District, Bao'an District, Shenzhen, Guang Dong, China FCC test Firm Registration Number: 625569 IC test Firm Registration Number: 12108A A2LA Certificate No.: 4338.01

1.2 MEASUREMENT UNCERTAINTY

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

No.	Item	Uncertainty
1	RF output power, conducted	±0.87dB
2	Unwanted Emissions, conducted	±2.895dB
3	All emissions, radiated 9K-30MHz	±3.80dB
4	All emissions, radiated 30M-1GHz	±4.09dB
5	All emissions, radiated 1G-6GHz	±4.92dB
6	All emissions, radiated>6G	±5.49dB
7	Conducted Emission (9KHz-30MHz)	±2.73dB

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2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	JOY-PDA(L)/(R)
Trade Name	N/A
Model Name	TNS-19053S
Series Model	TNS-19053, TNS-19053B, TNS-19053D, TNS-1864, TNS-1864B, TNS-19185, TNS-19185B, PGWG-555, 19053S
Model Difference	There is a difference in addition to color, appearance, the rest are consistent.
Channel List	Please refer to the Note 2.
Bluetooth	Frequency:2402 – 2480 MHz Modulation: GFSK(1Mbps), π/4-DQPSK(2Mbps), 8DPSK(3Mbps)
Bluetooth Configuration	BR+EDR
Antenna Type	Please refer to the Note 3.
Rating	Input: INPUT: 5V
Battery	Rated Voltage: 3.7V Charge Limit Voltage:4.2V Capacity: 350mAh
Hardware version number	TNS-19053D-R-V1.0
Software version number	V1.0
Connecting I/O Port(s)	Please refer to the Note 1.

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User Manual.

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		Chanr	nel List		
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	27	2429	54	2456
01	2403	28	2430	55	2457
02	2404	29	2431	56	2458
03	2405	30	2432	57	2459
04	2406	31	2433	58	2460
05	2407	32	2434	59	2461
06	2408	33	2435	60	2462
07	2409	34	2436	61	2463
08	2410	35	2437	62	2464
09	2411	36	2438	63	2465
10	2412	37	2439	64	2466
11	2413	38	2440	65	2467
12	2414	39	2441	66	2468
13	2415	40	2442	67	2469
14	2416	41	2443	68	2470
15	2417	42	2444	69	2471
16	2418	43	2445	70	2472
17	2419	44	2446	71	2473
18	2420	45	2447	72	2474
19	2421	46	2448	73	2475
20	2422	47	2449	74	2476
21	2423	48	2450	75	2477
22	2424	49	2451	76	2478
23	2425	50	2452	77	2479
24	2426	51	2453	78	2480
25	2427	52	2454		
26	2428	53	2455		

3. Table for Filed Antenna

		iu -				
Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	N/A	TNS-19053S	РСВ	N/A	0 dBi	BT Antenna

Note: The antenna information refer the manufacturer provide report, applicable only to the tested sample identified in the report. Due to the incorrect antenna information, a series of problems such as the accuracy of the test results will be borne by the customer.



2.2 DESCRIPTION OF THE TEST MODES

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

Worst Mode	Description	Data Rate/Modulation
Mode 1	TX CH00	1Mbps/GFSK
Mode 2	TX CH39	1Mbps/GFSK
Mode 3	TX CH78	1Mbps/GFSK
Mode 4	TX CH00	2 Mbps/π/4-DQPSK
Mode 5	TX CH39	2 Mbps/π/4-DQPSK
Mode 6	TX CH78	2 Mbps/π/4-DQPSK
Mode7	TX CH00	3 Mbps/8DPSK
Mode 8	TX CH39	3 Mbps/8DPSK
Mode 9	TX CH78	3 Mbps/8DPSK
Mode 10	Hopping	GFSK
Mode 11	Hopping	π/4-DQPSK
Mode 12	Hopping	8DPSK

Note:

(1) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported.

(2) We tested for all available U.S. voltage and frequencies (For 120V, 50/60Hz and 240V, 50/60Hz) for which the device is capable of operation, and the worst case of 120V/ 60Hz is shown in the report.

(3) The battery is fully-charged during the radiated and RF conducted test.

For AC Conducted Emission

Test Case		
AC Conducted Emission	Mode 13 : Keeping BT TX	

2.3 FREQUENCY HOPPING SYSTEM REQUIREMENTS

(1)Standard and Limit

According to FCC Part 15.247(a)(1), The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly 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.



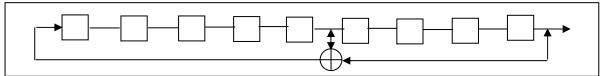
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The incorporation of intelligence within a frequency hopping spread spectrum system that permits the system to recognize other users within the spectrum band so that it individually and independently chooses and adapts its hop sets to avoid hopping 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.

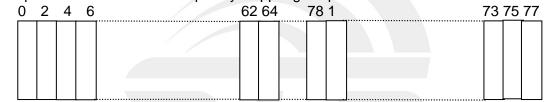
(2)The Pseudorandom sequence may be generated in a nin-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first one of 9 consecutive ones: i.e. the shift register is initialized with nine ones.

Numver of shift register stages:9

Length of pseudo-random sequence:2⁹-1=511bits Longest sequence of zeros: 8(non-inverted signal)



Liner Feedback Shift Register for Generator of the PRBS sequence An example of Pseudorandom Frequency Hoppong Sequence as follow:



Each frequency used equally on the average by each transmitter. The system receivers have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shift frequencies ini synchronization with the transmitted signals.

(3) Frequency Hopping System

This transmitter device is frequency hopping device, and complies with FCC part 15.247 rule.

This device uses Bluetooth radio which operates in 2400-2483.5 MHz band. Bluetooth uses a radio technology called frequency-hopping spread spectrum, which chops up the data being sent and transmits chunks of it on up to 79 bands (1 MHz each; centred from 2402 to 2480 MHz) in the range 2,400-2,483.5MHz. The transmitter switches hop frequencies 1,600 times per second to assure a high degree of data security. All Bluetooth devices participating in a given piconet are synchronized to the frequency-hopping channel for the piconet. The frequency hopping sequence is determined by the master's device address and the phase of the hopping sequence (the frequency to hop at a specific time) is determined by the master's internal clock. Therefore, all slaves in a piconet must know the master's device address and must synchronize their clocks with the master's clock.

Adaptive Frequency Hopping (AFH) was introduced in the Bluetooth specification to provide an effective way for a Bluetooth radio to counteract normal interference. AFH identifies "bad" channels, where either other wireless devices are interfering with the Bluetooth signal or the Bluetooth signal is interfering with another device. The AFH-enabled Bluetooth device will then communicate with other devices within its piconet to share details of any identified bad channels. The devices will then switch to alternative available "good" channels, away from the areas of interference, thus having no impact on the bandwidth used.

This device was tested with a bluetooth system receiver to check that the device maintained hopping synchronization, and the device complied with these requirements FCC Part 15.247 rule.



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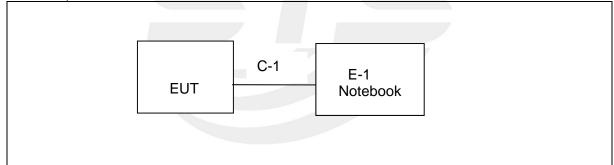
2.4 TABLE OF PARAMETERS OF TEST SOFTWARE SETTING

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

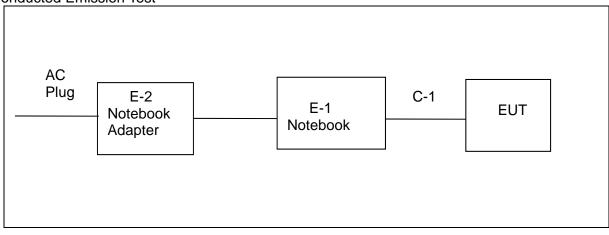
Test software Version	Test program: Bluetooth				
(Power control software) Parameters(1/2/3Mbps)	Power class: Power class: Power class: Power class: DH1 rate:4:27 DH3 rate:11:183 DH5 rate:15:339 2DH1 rate:20:54 2DH3 rate:26:367 2DH5 rate:30:679 3DH1 rate:24:83 3DH3 rate:27:552 3DH5 rate:31:1021				

RF Function	Туре	Mode Or Modulation type	ANT Gain(dBi)	Power Class	Software For Testing
		GFSK	0	10	
BT	BR+EDR	π/4-DQPSK	0	10	FCC_assist_1.0.2.2
		8DPSK	0	10	

2.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED Radiated Spurious Emission Test



Conducted Emission Test





2.6 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS

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

Item	Equipment	Mfr/Brand	Model/Type No.	Length	Note
N/A	N/A	N/A	N/A	N/A	N/A

Necessary accessories

Support units

Item	Equipment	Mfr/Brand	Model/Type No.	Length	Note
E-2	Notebook Adapter	LENOVO	ADLX45DLC3A	N/A	N/A
E-1	Notebook	LENOVO	Think Pad E470	N/A	N/A
C-1	USB Cable	N/A	N/A	150cm	NO

Note:

- (1) For detachable type I/O cable should be specified the length in cm in ^CLength₂ column.
- (2) "YES" is means "with core"; "NO" is means "without core".



2.7 EQUIPMENTS LIST

Radiation Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until		
Test Receiver	R&S	ESCI	101427	2021.09.30	2022.09.29		
Signal Analyzer	R&S	FSV 40-N	101823	2021.09.30	2022.09.29		
Active loop Antenna	ZHINAN	ZN30900C	16035	2021.04.11	2023.04.10		
Bilog Antenna	TESEQ	CBL6111D	34678	2020.10.12	2022.10.11		
Horn Antenna	SCHWARZBECK	BBHA 9120D	02014	2021.10.11	2023.10.10		
SHF-EHF Horn Antenna (18G-40GHz)	A-INFO	LB-180400-KF	J211020657	2020.10.12	2022.10.11		
Pre-Amplifier (0.1M-3GHz)	EM	EM330	060665	2021.10.08	2022.10.07		
Pre-Amplifier (1G-18GHz)	SKET	LNPA-01018G-45	SK2018080901	2021.09.30	2022.09.29		
Pre-Amplifier (18G-40GHz)	SKET	LNPA-1840-50	SK2018101801	2021.09.28	2022.09.27		
Temperature & Humidity	HH660	Mieo	N/A	2021.10.09	2022.10.08		
Turn table	EM	SC100_1	60531	N/A	N/A		
Antenna mast	EM	SC100	N/A	N/A	N/A		
Test SW	FARAD	EZ-EMC(Ver.STSLAB-03A1 RE)					

Conduction Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	
Test Receiver	R&S	ESCI	101427	2021.09.30	2022.09.29	
LISN	R&S	ENV216	101242	2021.09.30	2022.09.29	
LISN	EMCO	3810/2NM	23625	2021.09.30	2022.09.29	
Temperature & Humidity	HH660	Mieo	N/A	2021.10.09	2022.10.08	
Test SW	FARAD	EZ-EMC(Ver.STSLAB-03A1 RE)				



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RF Connected Test

Kind of Equipmen	t Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	
Dower Sensor		U2021XA	MY55520005	2021.09.30	2022.09.29	
	Kovoisht		MY55520006	2021.09.30	2022.09.29	
Power Sensor	Power Sensor Keysight		MY56120038	2021.09.30	2022.09.29	
			MY56280002	2021.09.30	2022.09.29	
Signal Analyzer	Agilent	N9020A	MY51110105	2022.03.01	2023.02.28	
Temperature & Humidity	HH660	Mieo	N/A	2021.10.09	2022.10.08	
Test SW	FARAD	EZ-EMC(Ver.STSLAB-03A1 RE)				



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3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION LIMITS

The radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table.

	Conducted Emissionlimit (dBuV)			
FREQUENCY (MHz)	Quasi-peak	Average		
0.15 -0.5	66 - 56 *	56 - 46 *		
0.50 -5.0	56.00	46.00		
5.0 -30.0	60.00	50.00		

Note:

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

The following table is the setting of the receiver

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

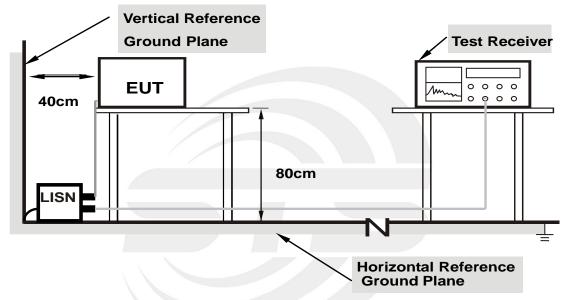
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3.1.2 TEST PROCEDURE

- a. The EUT is 0.8 m from the horizontal ground plane and 0.4 m from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments are powered from additional LISN(s). The LISN provides 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN is at least 80 cm from the nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.



3.1.3 TEST SETUP

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

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

3.1.4 EUT OPERATING CONDITIONS

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



3.1.5 TEST RESULT

Temperature:	26.1(C)	Relative Humidity:	60%RH
Test Voltage:	AC 120V/60Hz	Phase:	L
Test Mode:	Mode 13		

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1740	36.57	20.35	56.92	64.77	-7.85	QP
2	0.1740	11.58	20.35	31.93	54.77	-22.84	AVG
3	0.2620	32.53	20.64	53.17	61.37	-8.20	QP
4	0.2620	10.43	20.64	31.07	51.37	-20.30	AVG
5	0.4620	26.68	20.52	47.20	56.66	-9.46	QP
6	0.4620	13.91	20.52	34.43	46.66	-12.23	AVG
7	1.2620	27.66	20.33	47.99	56.00	-8.01	QP
8	1.2620	13.13	20.33	33.46	46.00	-12.54	AVG
9	2.1380	16.27	20.39	36.66	56.00	-19.34	QP
10	2.1380	6.90	20.39	27.29	46.00	-18.71	AVG
11	3.5740	10.96	20.49	31.45	56.00	-24.55	QP
12	3.5740	7.53	20.49	28.02	46.00	-17.98	AVG

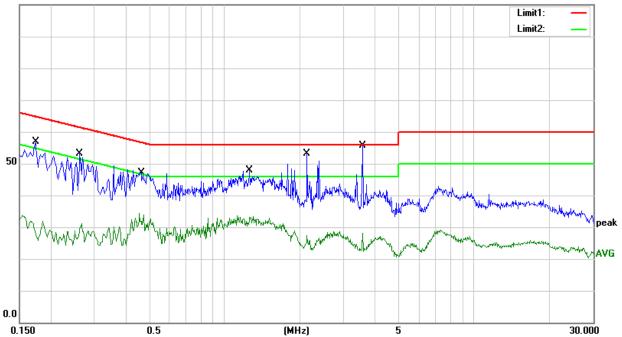
Remark:

1. All readings are Quasi-Peak and Average values

2. Margin = Result (Result = Reading + Factor)-Limit

3. Factor=LISN factor+Cable loss+Limiter (10dB)

100.0 dBuV



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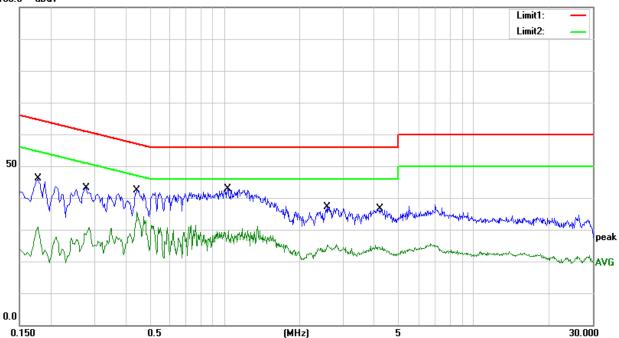
Temperature:	26.1(C)	Relative Humidity:	60%RH
Test Voltage:	AC 120V/60Hz	Phase:	Ν
Test Mode:	Mode 13		

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1780	25.68	20.35	46.03	64.58	-18.55	QP
2	0.1780	10.52	20.35	30.87	54.58	-23.71	AVG
3	0.2780	22.42	20.70	43.12	60.88	-17.76	QP
4	0.2780	10.03	20.70	30.73	50.88	-20.15	AVG
5	0.4460	21.89	20.53	42.42	56.95	-14.53	QP
6	0.4460	15.19	20.53	35.72	46.95	-11.23	AVG
7	1.0300	22.66	20.30	42.96	56.00	-13.04	QP
8	1.0300	10.15	20.30	30.45	46.00	-15.55	AVG
9	2.5940	16.65	20.43	37.08	56.00	-18.92	QP
10	2.5940	4.95	20.43	25.38	46.00	-20.62	AVG
11	4.2220	16.09	20.51	36.60	56.00	-19.40	QP
12	4.2220	4.55	20.51	25.06	46.00	-20.94	AVG

Remark:

1. All readings are Quasi-Peak and Average values

- 2. Margin = Result (Result = Reading + Factor)-Limit
- 3. Factor=LISN factor+Cable loss+Limiter (10dB)
- 100.0 dBuV



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3.2 RADIATED EMISSION MEASUREMENT

3.2.1 RADIATED EMISSION LIMITS

In any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the Restricted band specified on Part15.205 (a)&209(a) limit in the table and according to ANSI C63.10-2013 below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT (0.009MHz - 1000MHz)

Frequencies	Field Strength	Measurement Distance
(MHz)	(micorvolts/meter)	(meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (1GHz-25 GHz)

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

Notes:

(1) The limit for radiated test was performed according to FCC PART 15C.

- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

LIMITS OF RESTRICTED FREQUENCY BANDS

FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (GHz)
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	Above 38.6
13.36-13.41			

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For Radiated Emission

Spectrum Parameter	Setting		
Attenuation	Auto		
Detector	Peak/QP/AV		
Start Frequency	9 KHz/150KHz(Peak/QP/AV)		
Stop Frequency	150KHz/30MHz(Peak/QP/AV)		
	200Hz (From 9kHz to 0.15MHz)/		
RB / VB (emission in restricted	9KHz (From 0.15MHz to 30MHz);		
band)	200Hz (From 9kHz to 0.15MHz)/		
	9KHz (From 0.15MHz to 30MHz)		

Spectrum Parameter	Setting	
Attenuation	Auto	
Detector	Peak/QP	
Start Frequency	30 MHz(Peak/QP)	
Stop Frequency	1000 MHz (Peak/QP)	
RB / VB (emission in restricted		
band)	120 KHz / 300 KHz	

Spectrum Parameter	Setting	
Attenuation	Auto	
Detector	Peak/AV	
Start Frequency	1000 MHz(Peak/AV)	
Stop Frequency	10th carrier hamonic(Peak/AV)	
RB / VB (emission in restricted	1 MHz / 3 MHz(Peak)	
band)	1 MHz/1/T MHz(AVG)	

For Restricted band

Spectrum Parameter	Setting		
Detector	Peak/AV		
Stort/Stop Eroguopov	Lower Band Edge: 2310 to 2410 MHz		
Start/Stop Frequency	Upper Band Edge: 2476 to 2500 MHz		
	1 MHz / 3 MHz(Peak)		
RB / VB	1 MHz/1/T MHz(AVG)		

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Receiver Parameter	Setting	
Attenuation	Auto	
Start ~ Stop Frequency	9kHz~90kHz / RB 200Hz for PK & AV	
Start ~ Stop Frequency	90kHz~110kHz / RB 200Hz for QP	
Start ~ Stop Frequency	110kHz~490kHz / RB 200Hz for PK & AV	
Start ~ Stop Frequency	490kHz~30MHz / RB 9kHz for QP	
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP	

3.2.2 TEST PROCEDURE

- a. The measuring distance at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
- b. The EUT was placed on the top of a rotating table 0.8 m (above 1GHz is 1.5 m) above the ground at a 3 m anechoic chamber test site. The table was rotated 360 degree to determine the position of the highest radiation.
- c. The height of the equipment shall be 0.8 m (above 1GHz is 1.5 m); the height of the test antenna shall vary between 1 m to 4 m. Horizontal and vertical polarization of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and QuasiPeak detector mode will be re-measured.
- e. If the Peak Mode measured value is compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and no additional QP Mode measurement was performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos. Note:

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

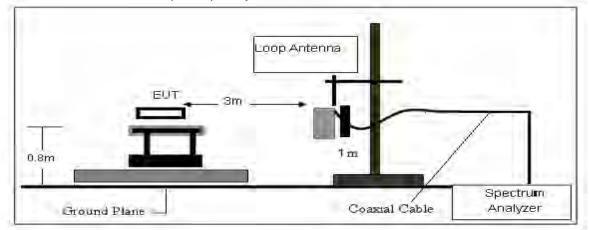
3.2.3 DEVIATION FROM TEST STANDARD

No deviation.

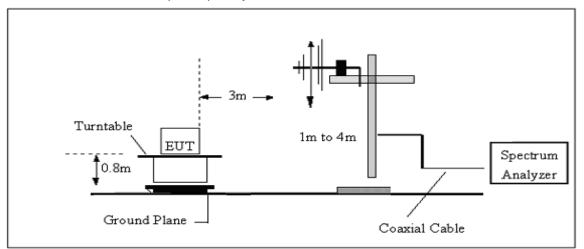


3.2.4 TESTSETUP

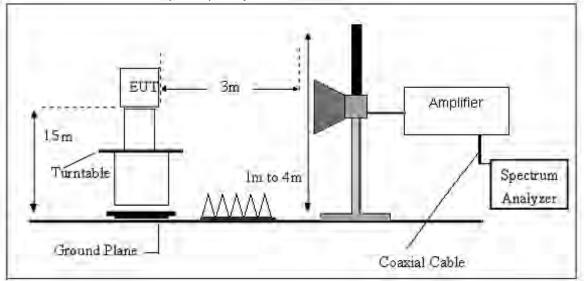
(A) Radiated Emission Test-Up Frequency Below 30MHz

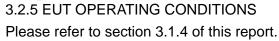


(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



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







3.2.6 FIELD STRENGTH CALCULATION

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS = RA + AF + CL - AGWhere FS = Field Strength CL = Cable Attenuation Factor (Cable Loss) RA = Reading Amplitude AG = Amplifier Gain AF = Antenna Factor

For example

Frequency	FS	RA	AF	CL	AG	Factor
(MHz)	(dBµV/m)	(dBµV/m)	(dB)	(dB)	(dB)	(dB)
300	40	58.1	12.2	1.6	31.9	-18.1

Factor=AF+CL-AG



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3.2.7 TEST RESULTS

(9KHz-30MHz)

Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 3.7V	Test Mode:	TX Mode

Freq.	Reading	Limit	Margin	State	Toot Dooult	
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F	Test Result	
					PASS	
					PASS	

Note:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor =40 log (specific distance/test distance)(dB); Limit line = specific limits (dBuv) + distance extrapolation factor.



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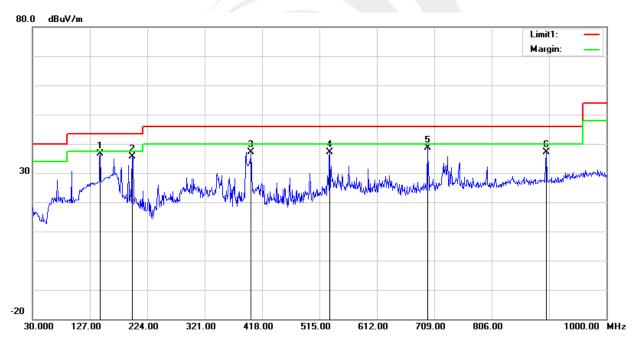
(30MHz-1000MHz)

Temperature:	23.1(C)	Relative Humidity:	60%RH			
Test Voltage:	DC 3.7V	Phase:	Horizontal			
Test Mode:	Mode 1/2/3/4/5/6/7/8/9(Mode 8 worst mode)					

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	144.4600	54.86	-18.29	36.57	43.50	-6.93	peak
2	198.7800	56.68	-21.12	35.56	43.50	-7.94	peak
3	399.5700	48.22	-11.16	37.06	46.00	-8.94	peak
4	532.4600	44.56	-7.31	37.25	46.00	-8.75	peak
5	697.3600	42.87	-4.22	38.65	46.00	-7.35	peak
6	898.1500	37.59	-0.49	37.10	46.00	-8.90	peak

Remark:

- 1. Margin = Result (Result = Reading + Factor)-Limit
- 2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



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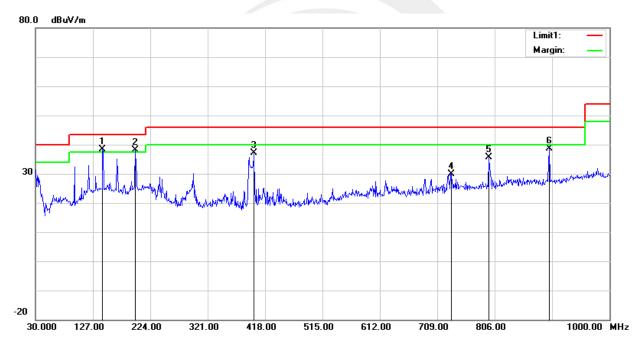
Temperature:	23.1(C)	Relative Humidity:	60%RH			
Test Voltage:	DC 3.7V	Phase:	Vertical			
Test Mode:	Mode 1/2/3/4/5/6/7/8/9(Mode 8 worst mode)					

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	143.4900	56.54	-18.23	38.31	43.50	-5.19	peak
2	198.7800	59.36	-21.12	38.24	43.50	-5.26	peak
3	399.5700	48.26	-11.16	37.10	46.00	-8.90	peak
4	732.2800	32.39	-2.39	30.00	46.00	-16.00	peak
5	796.3000	37.75	-2.02	35.73	46.00	-10.27	peak
6	898.1500	39.05	-0.49	38.56	46.00	-7.44	peak

Remark:

1. Margin = Result (Result = Reading + Factor)–Limit

2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



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(1GHz~25GHz) Spurious emission Requirements

Frequency	Meter Reading	Amplifier	Loss	Antenna Factor	Corrected Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBµV)	(dB)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	
				Low Ch	annel (8DPSK/	2402 MHz)				
3264.81	61.51	44.70	6.70	28.20	-9.80	51.71	74.00	-22.29	PK	Vertical
3264.81	50.24	44.70	6.70	28.20	-9.80	40.44	54.00	-13.56	AV	Vertical
3264.80	62.26	44.70	6.70	28.20	-9.80	52.46	74.00	-21.54	PK	Horizontal
3264.80	50.49	44.70	6.70	28.20	-9.80	40.69	54.00	-13.31	AV	Horizontal
4804.32	58.40	44.20	9.04	31.60	-3.56	54.84	74.00	-19.16	PK	Vertical
4804.32	50.28	44.20	9.04	31.60	-3.56	46.72	54.00	-7.28	AV	Vertical
4804.54	59.60	44.20	9.04	31.60	-3.56	56.04	74.00	-17.96	PK	Horizontal
4804.54	50.30	44.20	9.04	31.60	-3.56	46.74	54.00	-7.26	AV	Horizontal
5359.75	48.95	44.20	9.86	32.00	-2.34	46.61	74.00	-27.39	PK	Vertical
5359.75	38.95	44.20	9.86	32.00	-2.34	36.61	54.00	-17.39	AV	Vertical
5359.67	47.47	44.20	9.86	32.00	-2.34	45.13	74.00	-28.87	PK	Horizontal
5359.67	38.23	44.20	9.86	32.00	-2.34	35.89	54.00	-18.11	AV	Horizontal
7205.72	53.97	43.50	11.40	35.50	3.40	57.37	74.00	-16.63	PK	Vertical
7205.72	43.74	43.50	11.40	35.50	3.40	47.14	54.00	-6.86	AV	Vertical
7205.84	53.99	43.50	11.40	35.50	3.40	57.39	74.00	-16.61	PK	Horizontal
7205.84	43.82	43.50	11.40	35.50	3.40	47.22	54.00	-6.78	AV	Horizontal
				Middle C	hannel (8DPSł	2441 MHz)</td <td></td> <td></td> <td></td> <td></td>				
3264.80	62.06	44.70	6.70	28.20	-9.80	52.26	74.00	-21.74	PK	Vertical
3264.80	50.64	44.70	6.70	28.20	-9.80	40.84	54.00	-13.16	AV	Vertical
3264.60	60.88	44.70	6.70	28.20	-9.80	51.08	74.00	-22.92	PK	Horizontal
3264.60	50.91	44.70	6.70	28.20	-9.80	41.11	54.00	-12.89	AV	Horizontal
4882.45	58.66	44.20	9.04	31.60	-3.56	55.10	74.00	-18.90	PK	Vertical
4882.45	50.24	44.20	9.04	31.60	-3.56	46.68	54.00	-7.32	AV	Vertical
4882.53	58.87	44.20	9.04	31.60	-3.56	55.31	74.00	-18.69	PK	Horizontal
4882.53	50.43	44.20	9.04	31.60	-3.56	46.87	54.00	-7.13	AV	Horizontal
5359.87	49.36	44.20	9.86	32.00	-2.34	47.02	74.00	-26.98	PK	Vertical
5359.87	40.03	44.20	9.86	32.00	-2.34	37.69	54.00	-16.31	AV	Vertical
5359.67	48.30	44.20	9.86	32.00	-2.34	45.96	74.00	-28.04	PK	Horizontal
5359.67	38.44	44.20	9.86	32.00	-2.34	36.10	54.00	-17.90	AV	Horizontal
7323.93	54.70	43.50	11.40	35.50	3.40	58.10	74.00	-15.90	PK	Vertical
7323.93	44.48	43.50	11.40	35.50	3.40	47.88	54.00	-6.12	AV	Vertical
7323.79	53.81	43.50	11.40	35.50	3.40	57.21	74.00	-16.79	PK	Horizontal
7323.79	44.92	43.50	11.40	35.50	3.40	48.32	54.00	-5.68	AV	Horizontal



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				High Chan	nel (8DPSK	/2480 MHz)				
3264.62	60.92	44.70	6.70	28.20	-9.80	51.12	74.00	-22.88	PK	Vertical
3264.62	50.65	44.70	6.70	28.20	-9.80	40.85	54.00	-13.15	AV	Vertical
3264.57	60.78	44.70	6.70	28.20	-9.80	50.98	74.00	-23.02	PK	Horizontal
3264.57	50.61	44.70	6.70	28.20	-9.80	40.81	54.00	-13.19	AV	Horizontal
4960.41	59.30	44.20	9.04	31.60	-3.56	55.74	74.00	-18.26	PK	Vertical
4960.41	50.28	44.20	9.04	31.60	-3.56	46.72	54.00	-7.28	AV	Vertical
4960.57	58.81	44.20	9.04	31.60	-3.56	55.25	74.00	-18.75	PK	Horizontal
4960.57	49.55	44.20	9.04	31.60	-3.56	45.99	54.00	-8.01	AV	Horizontal
5359.61	48.89	44.20	9.86	32.00	-2.34	46.55	74.00	-27.45	PK	Vertical
5359.61	40.03	44.20	9.86	32.00	-2.34	37.69	54.00	-16.31	AV	Vertical
5359.65	48.32	44.20	9.86	32.00	-2.34	45.98	74.00	-28.02	PK	Horizontal
5359.65	38.42	44.20	9.86	32.00	-2.34	36.08	54.00	-17.92	AV	Horizontal
7439.90	54.28	43.50	11.40	35.50	3.40	57.68	74.00	-16.32	PK	Vertical
7439.90	43.58	43.50	11.40	35.50	3.40	46.98	54.00	-7.02	AV	Vertical
7439.95	54.73	43.50	11.40	35.50	3.40	58.13	74.00	-15.87	PK	Horizontal
7439.95	44.20	43.50	11.40	35.50	3.40	47.60	54.00	-6.40	AV	Horizontal

Note:

- 1) Scan with GFSK, $\pi/4$ -DQPSK, 8DPSK, the worst case is 8DPSK Mode.
- 2) Factor = Antenna Factor + Cable Loss Pre-amplifier.

Emission Level = Reading + Factor

3) The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.

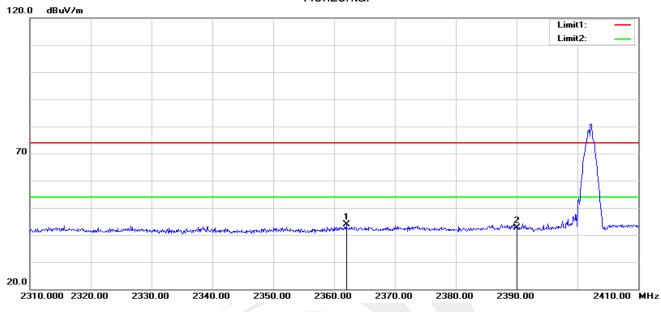




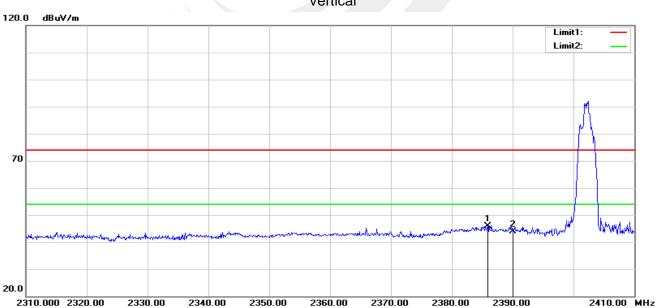
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Restricted band Requirements

8DPSK-Low Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2362.000	39.85	3.92	43.77	74.00	-30.23	peak
2	2390.000	38.38	4.34	42.72	74.00	-31.28	peak



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2385.900	41.51	4.28	45.79	74.00	-28.21	peak
2	2390.000	39.65	4.34	43.99	74.00	-30.01	peak

Vertical

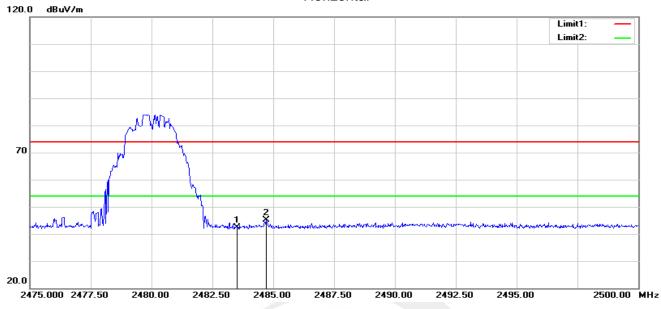
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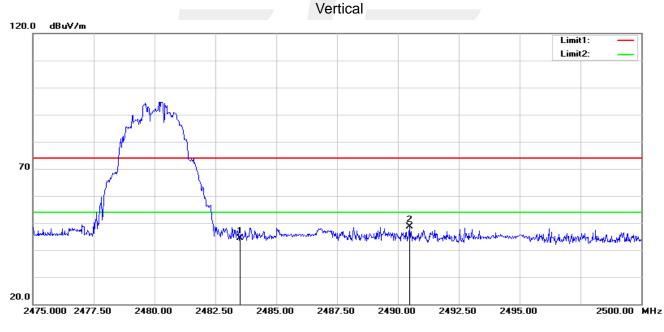
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8DPSK-High Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	37.68	4.60	42.28	74.00	-31.72	peak
2	2484.700	40.55	4.61	45.16	74.00	-28.84	peak



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	39.84	4.60	44.44	74.00	-29.56	peak
2	2490.475	43.90	4.63	48.53	74.00	-25.47	peak

Note: GFSK, $\pi/4$ -DQPSK, 8DPSK of the nohopping and hopping mode all have been test, the worst case is 8DPSK of the nohopping mode, this report only show the worst case.

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4. CONDUCTED SPURIOUS & BAND EDGE EMISSION

4.1 LIMIT

According to FCC section 15.247(d), in any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

4.2 TEST PROCEDURE

Spectrum Parameter	Setting
Detector	Peak
Start/Stop Frequency	30 MHz to 10th carrier harmonic
RB / VB (emission in restricted band)	100 KHz/300 KHz
Trace-Mode:	Max hold

For Band edge

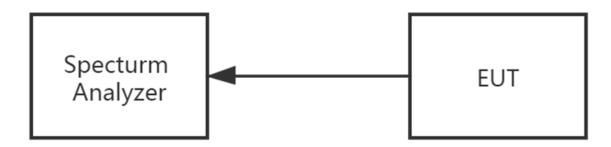
Spectrum Parameter	Setting
Detector	Peak
Start/Stop Frequency	Lower Band Edge: 2300 – 2407 MHz
	Upper Band Edge: 2475 – 2500 MHz
RB / VB (emission in restricted band)	100 KHz/300 KHz
Trace-Mode:	Max hold

For Hopping Band edge

Spectrum Parameter	Setting	
Detector	Peak	
Start/Stop Frequency	Lower Band Edge: 2300–2403 MHz	
	Upper Band Edge: 2479 – 2500 MHz	
RB / VB (emission in restricted band)	100 KHz/300 KHz	
Trace-Mode:	Max hold	



4.3 TEST SETUP



The EUT is connected to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 500hm; the path loss as the factor is calibrated to correct the reading. Tune the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. In order to make an accurate measurement, the span is set to be greater than RBW.

4.4 EUT OPERATION CONDITIONS

Please refer to section 3.1.4 of this report.

4.5 TEST RESULTS

Note: The test data please refer to APPENDIX 1.



5. NUMBER OF HOPPING CHANNEL

5.1 LIMIT

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

Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	> Operating FrequencyRange
RB	300KHz
VB	300KHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

5.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Spectrum Setting: RBW= 300KHz, VBW=300KHz, Sweep time = Auto.
- 5.3 TEST SETUP



5.4 EUT OPERATION CONDITIONS

Please refer to section 3.1.4 of this report.

5.5 TEST RESULTS

Note: The test data please refer to APPENDIX 1.

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6. AVERAGE TIME OF OCCUPANCY

6.1 LIMIT

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

6.2 TEST PROCEDURE

- a. The transmitter output (antenna port) was connected to the spectrum analyzer.
- b. Set RBW =1MHz/VBW =3MHz.
- c. Use a video trigger with the trigger level set to enable triggering only on full pulses.
- d. Sweep Time is more than once pulse time.
- Set the center frequency on any frequency would be measure and set the frequency span to e. zero span.
- f. Measure the maximum time duration of one single pulse.
- g. Set the EUT for DH5, DH3 and DH1 packet transmitting.
- \tilde{h} . Measure the maximum time duration of one single pulse.
- i. DH5 Packet permit maximum 1600/ 79 / 6 = 3.37 hops per second in each channel (5 time slots RX, 1 time slot TX). So the number of pulses in the observation period of 31.6 seconds is $3.37 \times 31.6 = 106.6$.
- j. DH3 Packet permit maximum 1600 / 79 / 4 = 5.06 hops per second in each channel (3 time slots RX, 1 time slot TX). So the number of pulses in the observation period of 31.6 seconds is $5.06 \times 31.6 = 160$.
- k. DH1 Packet permit maximum 1600 / 79 / 2 = 10.12 hops per second in each channel (1 time slot RX, 1 time slot TX). So the number of pulses in the observation period of 31.6 seconds is 10.12 x 31.6 = 320.

6.3 TEST SETUP



6.4 EUT OPERATION CONDITIONS

Please refer to section 3.1.4 of this report.

6.5 TEST RESULTS

Note: The test data please refer to APPENDIX 1.

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7. HOPPING CHANNEL SEPARATION MEASUREMEN

7.1 LIMIT

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> 20 dB Bandwidth or Channel Separation
RB	30 kHz (20dB Bandwidth) / 30 kHz (Channel Separation)
VB	100 kHz (20dB Bandwidth) / 100 kHz (Channel Separation)
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

7.2 TEST PROCEDURE

- a. The transmitter output (antenna port) was connected to the spectrum analyser in peak hold mode.
- b. The resolution bandwidth of 30 kHz and the video bandwidth of 100 kHz were utilised for 20 dB bandwidth measurement.
- c. The resolution bandwidth of 30 kHz and the video bandwidth of 100 kHz were utilised for channel separation measurement.

7.3 TEST SETUP



7.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

7.5 TEST RESULTS

Note: The test data please refer to APPENDIX 1.



8. BANDWIDTH TEST

8.1 LIMIT

FCC Part15 15.247,Subpart C						
Section Test Item Limit FrequencyRange (MHz)						
15.247 (a)(1)	Bandwidth	N/A	2400-2483.5	PASS		

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> Measurement Bandwidth or Channel Separation
RB	30 kHz (20dB Bandwidth) / 30 kHz (Channel Separation)
VB	100 kHz (20dB Bandwidth) / 100 kHz (Channel Separation)
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

8.2 TEST PROCEDURE

a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.

b. Spectrum Setting: RBW= 30KHz, VBW=100KHz, Sweep time = Auto.

8.3 TEST SETUP



8.4 EUT OPERATION CONDITIONS

Please refer to section 3.1.4 of this report.

8.5 TEST RESULTS

Note: The test data please refer to APPENDIX 1.



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9. OUTPUT POWER TEST

9.1 LIMIT

FCC Part 15.247,Subpart C							
Section	Test Item	Limit	Frequency Range (MHz)	Result			
		1 W or 0.125W					
15.247 (a)(1)&(b)(1)	Output Power	if channel separation > 2/3 bandwidthprovided thesystems operatewith an output power no greater than125 mW(20.97dBm)	2400-2483.5	PASS			

9.2 TEST PROCEDURE

This is an RF-conducted test to evaluate maximum peak output power. Use a direct connection between the antenna port of the unlicensed wireless device and the spectrum analyzer, through suitable attenuation. The hopping shall be disabled for this test:

a) Use the following spectrum analyzer settings:

1) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.

2) RBW > 20 dB bandwidth of the emission being measured.

3) VBW \geq RBW.

4) Sweep: Auto.

5) Detector function: Peak.

6) Trace: Max hold.

b) Allow trace to stabilize.

c) Use the marker-to-peak function to set the marker to the peak of the emission.

d) The indicated level is the peak output power, after any corrections for external attenuators and cables.

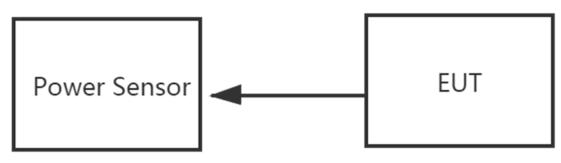
e) A plot of the test results and setup description shall be included in the test report.

NOTE—A peak responding power meter may be used, where the power meter and sensor system video bandwidth is greater than the occupied bandwidth of the unlicensed wireless device, rather than a spectrum analyzer.

PKPM1 Peak power meter method:

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DSS bandwidth and shall use a fast-responding diode detector.

9.3 TEST SETUP



9.4 EUT OPERATION CONDITIONS

Please refer to section 3.1.4 of this report.

9.5 TEST RESULTS

Note: The test data please refer to APPENDIX 1.

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10. ANTENNA REQUIREMENT

10.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 15.203: 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.

10.2 EUT ANTENNA

The EUT antenna is PCB Antenna. It comply with the standard requirement.



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APPENDIX 1-TEST DATA

1. DWELL TIME

Condition	Mode	Frequency	Pulse	Total Dwell	Burst	Period	Limit	Verdict
		(MHz)	Time (ms)	Time (ms)	Count	Time (ms)	(ms)	
NVNT	1-DH1	2441	0.422	133.774	317	31600	<=400	Pass
NVNT	1-DH3	2441	1.678	263.446	157	31600	<=400	Pass
NVNT	1-DH5	2441	2.926	313.082	107	31600	<=400	Pass
NVNT	2-DH1	2441	0.431	137.489	319	31600	<=400	Pass
NVNT	2-DH3	2441	1.683	265.914	158	31600	<=400	Pass
NVNT	2-DH5	2441	1.683	257.499	153	31600	<=400	Pass
NVNT	3-DH1	2441	0.432	137.808	319	31600	<=400	Pass
NVNT	3-DH3	2441	1.682	257.346	153	31600	<=400	Pass
NVNT	3-DH5	2441	1.682	260.71	155	31600	<=400	Pass

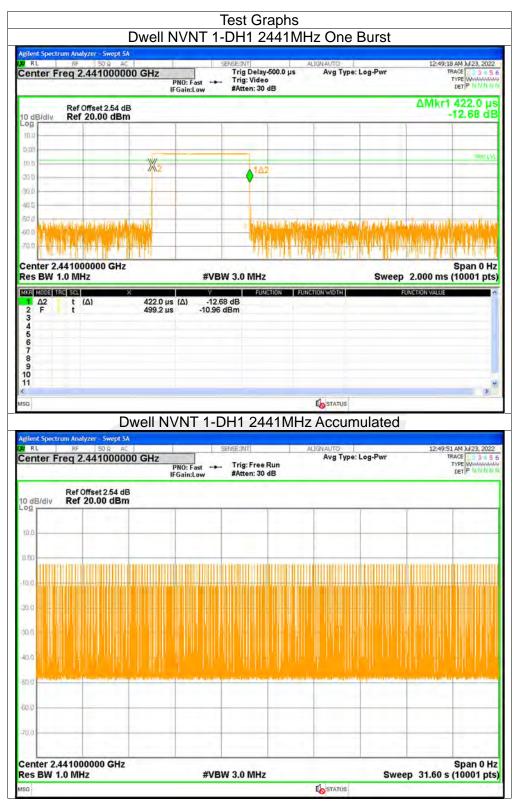


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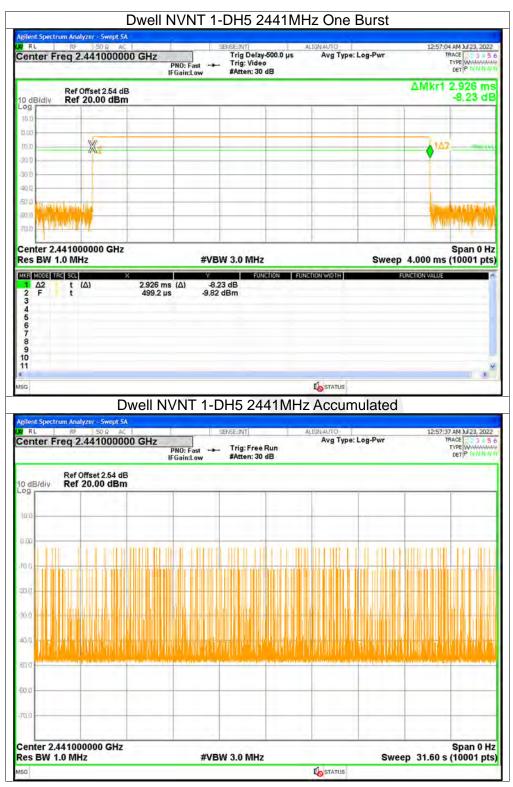
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Dwell NVNT 1-DH3 2441MHz One Burst nt Spectrum Analyzer - Swept S/ RL 12:50:06 AM Jul 23, 2022 Trig Delay-500.0 µs Trig: Video #Atten: 30 dB Center Freq 2.441000000 GHz Avg Type: Log-Pwr PNO: Fast IFGain:Low DET P IN NIN ΔMkr1 1.678 ms -4.06 dB Ref Offset 2.54 dB Ref 20.00 dBm 10 dB/div 142 * 30) 411 50 0 in the state of the sound device of n MULTINE DATA AV 144 145 Center 2.441000000 GHz Span 0 Hz Res BW 1.0 MHz #VBW 3.0 MHz Sweep 4.000 ms (10001 pts) MKR MODE TRC SCL FUNCTION FUNCTION WIDTH FUNCTION MRF Mode 1 Δ2 2 F 3 4 5 6 7 8 9 10 11 5 1.678 ms (Δ) 498.8 μs -4.06 dB t (Δ) t -9.04 dBm TATUS sa Dwell NVNT 1-DH3 2441MHz Accumulated 12:50:40 AM Jul 23, 2022 TRACE 3 5 C TYPE WALLAND DET P IN IN IN RL Center Freq 2.441000000 GHz Avg Type: Log-Pwr Trig: Free Run #Atten: 30 dB PNO: Fast Ref Offset 2.54 dB Ref 20.00 dBm 10 dB/div a a IC. ini 40.0 50 60.0 Span 0 Hz Sweep 31.60 s (10001 pts) Center 2.441000000 GHz Res BW 1.0 MHz **#VBW 3.0 MHz** STATUS SG

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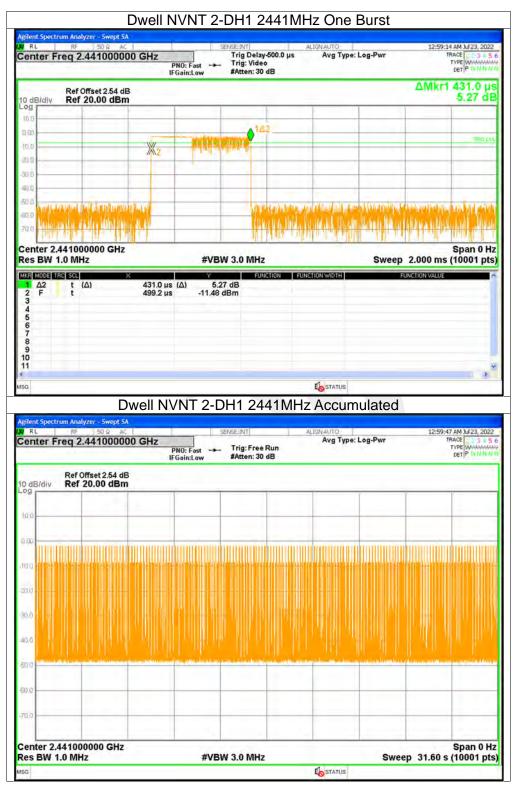


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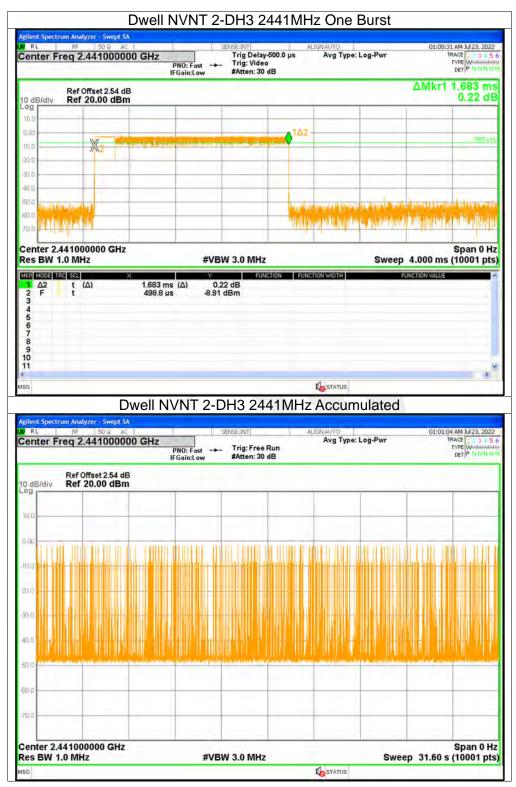
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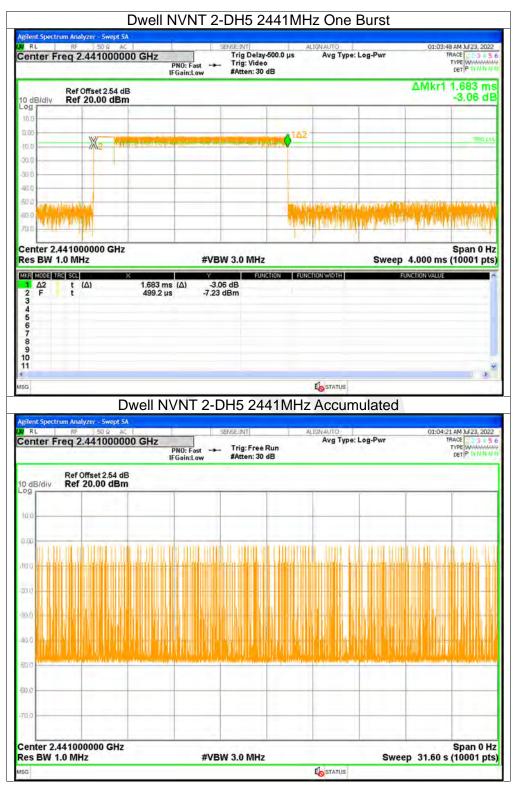
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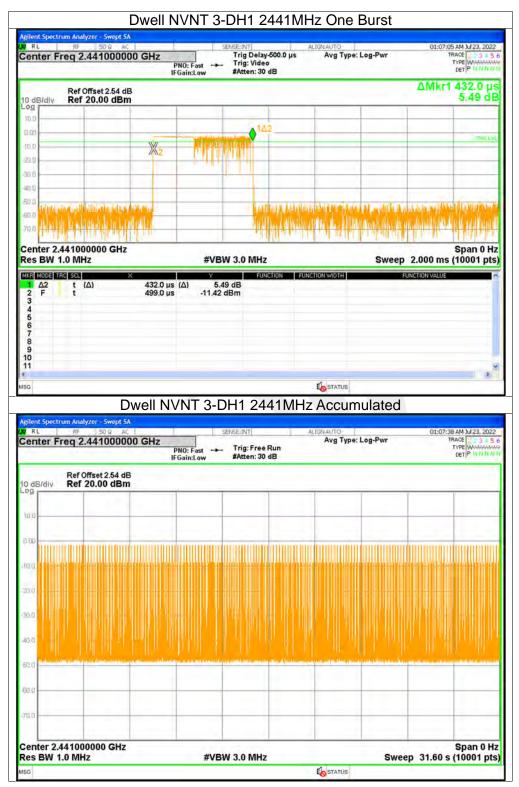
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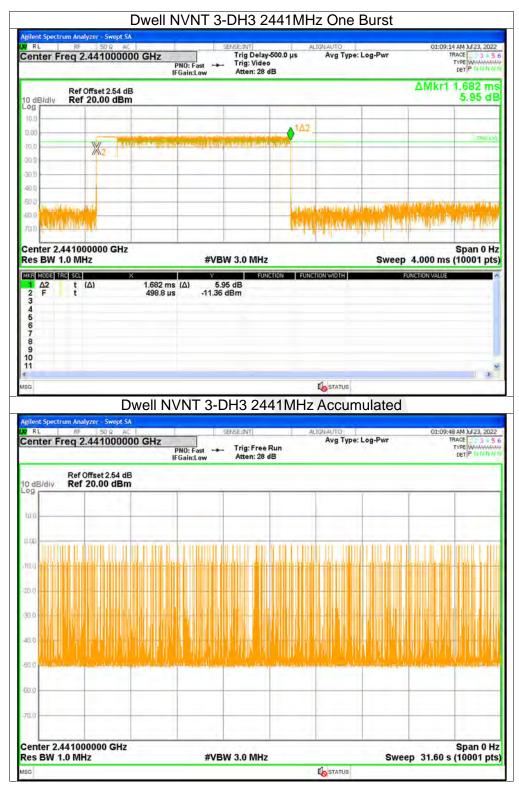
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Dwell NVNT 3-DH5 2441MHz One Burst nt Spectrum Analyze Swept 5/ RL 01:13:28 AM Jul 23, 2022 Trig Delay-500.0 µs Trig: Video #Atten: 30 dB Center Freq 2.441000000 GHz Avg Type: Log-Pwr PNO: Fast IFGain:Low DET P TVNh ΔMkr1 1.682 ms 2.96 dB Ref Offset 2.54 dB Ref 20.00 dBm 10 dB/div 102 Ж 301 401 Contract, A. on all 1999 Manual State of Street, and an an internal state is here a contract the state Center 2.441000000 GHz Span 0 Hz Sweep 4.000 ms (10001 pts) Res BW 1.0 MHz #VBW 3.0 MHz MKR MODE TRC SCL FUNCTION FUNCTION WIDTH INCTION VALUE MKF Model 1 Δ2 2 F 3 4 5 6 7 8 9 10 11 1.682 ms (Δ) 498.8 μs 2.96 dB t (Δ) t -7.95 dBm TATUS sa Dwell NVNT 3-DH5 2441MHz Accumulated 01:14:01 AM JJ/23, 2022 TRACE 3 5 C TYPE WWWWWW DET P WWWWW RL Center Freq 2.441000000 GHz Avg Type: Log-Pwr Trig: Free Run #Atten: 30 dB PNO: Fast Ref Offset 2.54 dB Ref 20.00 dBm 10 dB/div ñ'n 10.0 in i 40.0 50 00. Span 0 Hz Sweep 31.60 s (10001 pts) Center 2.441000000 GHz Res BW 1.0 MHz **#VBW 3.0 MHz** STATUS SG

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2. MAXIMUM AVERAGE CONDUCTED OUTPUT POWER

Condition	Mode	Frequency	Conducted Power	Total Power	Limit	Verdict
		(MHz)	(dBm)	(dBm)	(dBm)	
NVNT	1-DH5	2402	-3.69	-3.69	<=30	Pass
NVNT	1-DH5	2441	-3.31	-3.31	<=30	Pass
NVNT	1-DH5	2480	-3.64	-3.64	<=30	Pass
NVNT	2-DH5	2402	-5.06	-5.06	<=30	Pass
NVNT	2-DH5	2441	-4.75	-4.75	<=30	Pass
NVNT	2-DH5	2480	-5.12	-5.12	<=30	Pass
NVNT	3-DH5	2402	-4.98	-4.98	<=30	Pass
NVNT	3-DH5	2441	-4.35	-4.35	<=30	Pass
NVNT	3-DH5	2480	-4.73	-4.73	<=30	Pass



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RL	rum Analyzer - Swept SA RF 50 ม สต			SENSE INT]	ALIGN A		16	12:23	48 AM Jul 23, 2022
Center F	req 2.4410000	P	PNO: Fast -+ Gain:Low	_ Trig: Free Run #Atten: 30 dB		vg Type: RM vg Hold: 100			TYPE A MUNICIPAL OF A
0 dB/div	Ref Offset 2.54 dE Ref 20.00 dBm	1					M		1 150 GH 4.754 dBr
og									
0.0						- 1			-
105			-	•					
a.a.			1						-
10.Q		1				-	-	1	1 2 2 1
RU		1					1		
	1							N	
0.0	1	-						1	
D O Deced	-								
0.0									
30.0								-	
								-	-
enter 2.	441000 GHz							Spa	an 10.00 MH
	2.0 MHz	A. (3W 6.0 MHz*	-	TATUS		o 1.333 m	s (10001 pt
sg gilent Spect R L	rum Analyzer - Swept SA RF 50 Ω 40			BW 6.0 MHZ* er NVNT 2 SENSEINT	2-DH5 2	2480N	lHz		:14 AM Jul 23, 202
sg gilent Spect R L	rum Analyzer - Swept SA	D0 GHz		er NVNT 2	2-DH5 2 ALIGNA	2480N	IHz 15		14 AM Jul 23, 2023 TRACE
d RL enter F	rum Analyzer - Swept 54 RF 50 g Ac Freq 2.48000000 Ref Offset 2.46 dE	DO GHz		er NVNT 2 SENSEINT	2-DH5 2 ALIGNA	2480N	IHz 15 1100	12:26 kr1 2.48	14 AM 3/23, 2023 TRACE 3 5 TYPE A 1000 M
gilent Spect RL Center F	rum Analyzer - Swept SA RF S0 Ω AC Freq 2.48000000	DO GHz		er NVNT 2 SENSEINT	2-DH5 2 ALIGNA	2480N	IHz 15 1100	12:26 kr1 2.48	14 AM 3/23, 2023 TRACE 3 5 TYPE A 1000 M
glent Spect RL enter F	rum Analyzer - Swept 54 RF 50 g Ac Freq 2.48000000 Ref Offset 2.46 dE	DO GHz		er NVNT 2 SENSEINT	2-DH5 2 ALIGNA	2480N	IHz 15 1100	12:26 kr1 2.48	14 AM 3/23, 2023 TRACE 3 5 TYPE A TYPE A DET A TYPE A DET A TYPE A
sg glent Spect RL enter F	rum Analyzer - Swept 54 RF 50 g Ac Freq 2.48000000 Ref Offset 2.46 dE	DO GHz		er NVNT 2 SEREINT - Trig: Free Run #Atten: 30 dB	2-DH5 2 ALIGNA	2480N	IHz 15 1100	12:26 kr1 2.48	14 AM 3/23, 2023 TRACE 3 5 TYPE A TYPE A DET A TYPE A DET A TYPE A
glient Spect RL eenter F	rum Analyzer - Swept 54 RF 50 g Ac Freq 2.48000000 Ref Offset 2.46 dE	DO GHz		er NVNT 2 SENSEINT	2-DH5 2 ALIGNA	2480N	IHz 15 1100	12:26 kr1 2.48	14 AM 3/23, 2023 TRACE 3 5 TYPE A TYPE A DET A TYPE A DET A TYPE A
content Spect	rum Analyzer - Swept 54 RF 50 g Ac Freq 2.48000000 Ref Offset 2.46 dE	DO GHz		er NVNT 2 SEREINT - Trig: Free Run #Atten: 30 dB	2-DH5 2 ALIGNA	2480N	IHz 15 1100	12:26 kr1 2.48	14 AM 3/23, 2023 TRACE 3 5 TYPE A TYPE A DET A TYPE A DET A TYPE A
so RL enter F 0 dB/div 99	rum Analyzer - Swept 54 RF 50 g Ac Freq 2.48000000 Ref Offset 2.46 dE	DO GHz		er NVNT 2 SEREINT - Trig: Free Run #Atten: 30 dB	2-DH5 2 ALIGNA	2480N	IHz 15 1100	12:26 kr1 2.48	14 AM 3/23, 2023 TRACE 3 5 TYPE A TYPE A DET A TYPE A DET A TYPE A
so RL enter F 0 dB/div 99	rum Analyzer - Swept 54 RF 50 g Ac Freq 2.48000000 Ref Offset 2.46 dE	DO GHz		er NVNT 2 SEREINT - Trig: Free Run #Atten: 30 dB	2-DH5 2 ALIGNA	2480N	IHz 15 1100	12:26 kr1 2.48	14 AM 3/23, 2023 TRACE 3 5 TYPE A TYPE A DET A TYPE A DET A TYPE A
o dB/div o dB/div og	rum Analyzer - Swept 54 RF 50 g Ac Freq 2.48000000 Ref Offset 2.46 dE	DO GHz		er NVNT 2 SEREINT - Trig: Free Run #Atten: 30 dB	2-DH5 2 ALIGNA	2480N	IHz 15 1100	12:26 kr1 2.48	s (10001 pt:
5G gilent Spect R L	rum Analyzer - Swept 54 RF 50 g Ac Freq 2.48000000 Ref Offset 2.46 dE	DO GHz		er NVNT 2 SEREINT - Trig: Free Run #Atten: 30 dB	2-DH5 2 ALIGNA	2480N	IHz 15 1100	12:26 kr1 2.48	14 AM 3/23, 2023 TRACE 3 5 TYPE A TYPE A DET A TYPE A DET A TYPE A
glent Spect RL enter F 0 dB/div 0	rum Analyzer - Swept 54 RF 50 g Ac Freq 2.48000000 Ref Offset 2.46 dE	DO GHz		er NVNT 2 SEREINT - Trig: Free Run #Atten: 30 dB	2-DH5 2 ALIGNA	2480N	IHz 15 1100	12:26 kr1 2.48	14 AM 3/23, 2023 TRACE 3 5 TYPE A TYPE A DET A TYPE A DET A TYPE A
o dB/div 9 0 dB/div 9 100 100 100 100 100 100 100	rum Analyzer - Swept 54 RF 50 g Ac Freq 2.48000000 Ref Offset 2.46 dE	DO GHz		er NVNT 2 SEREINT - Trig: Free Run #Atten: 30 dB	2-DH5 2 ALIGNA	2480N	IHz 15 1100	12:26 kr1 2.48	14 AM 3/23, 2023 TRACE 3 5 TYPE A TYPE A DET A TYPE A DET A TYPE A
0 dB/div 9 0 dB/div 9 0 dB/div 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	rum Analyzer - Swept 54 RF 50 g Ac Freq 2.48000000 Ref Offset 2.46 dE	DO GHz		er NVNT 2 SEREINT - Trig: Free Run #Atten: 30 dB	2-DH5 2 ALIGNA	2480N	IHz 15 1100	12:26 kr1 2.48	14 AM 3/23, 2023 TRACE 3 5 TYPE A TYPE A DET A TYPE A DET A TYPE A
o dB/div 9 0 dB/div 9 100 100 100 100 100 100 100	rum Analyzer - Swept 54 RF 50 g Ac Freq 2.48000000 Ref Offset 2.46 dE	DO GHz	PNO: Fast Gain:Low	er NVNT 2 SEREINT - Trig: Free Run #Atten: 30 dB	2-DH5 2 ALIGNA	2480N	IHz Is M	12:26	14 AM 3/23, 2023 TRACE 3 5 TYPE A TYPE A DET A TYPE A DET A TYPE A



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SENSE:INT	ALIGN AUTO	12:45:15 AM Jul 23, 2022
PNO: Fast Trig: Free Run IFGain:Low #Atten: 30 dB	Avg Type: RMS Avg Hold; 100/100	
	M	kr1 2.479 972 GHz -4.734 dBm
1		
#\/P\W 6 0 MH-*	Swaan	Span 10.00 MHz 1.333 ms (10001 pts
	PNO: Fast Trig: Free Run	PNO: Fast Trig: Free Run IFGain:Low #Atten: 30 dB MI

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3. MAXIMUM PEAK CONDUCTED OUTPUT POWER

Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	-2.72	<=21	Pass
NVNT	1-DH5	2441	-2.57	<=21	Pass
NVNT	1-DH5	2480	-2.67	<=21	Pass
NVNT	2-DH5	2402	-1.89	<=21	Pass
NVNT	2-DH5	2441	-1.72	<=21	Pass
NVNT	2-DH5	2480	-1.78	<=21	Pass
NVNT	3-DH5	2402	-1.61	<=21	Pass
NVNT	3-DH5	2441	-1.38	<=21	Pass
NVNT	3-DH5	2480	-1.47	<=21	Pass



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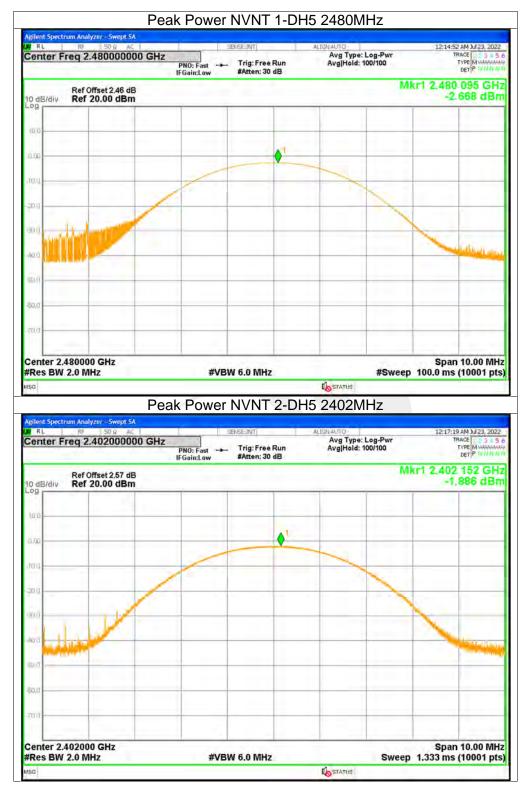
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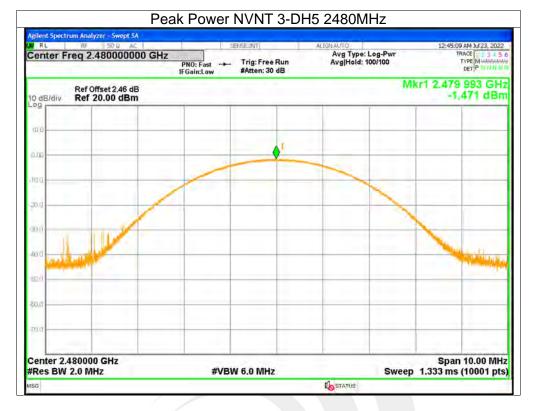
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4. -20DB BANDWIDTH

Condition	Mode	Frequency (MHz)	-20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	0.79	Pass
NVNT	1-DH5	2441	0.84	Pass
NVNT	1-DH5	2480	0.79	Pass
NVNT	2-DH5	2402	1.22	Pass
NVNT	2-DH5	2441	1.26	Pass
NVNT	2-DH5	2480	1.22	Pass
NVNT	3-DH5	2402	1.25	Pass
NVNT	3-DH5	2441	1.28	Pass
NVNT	3-DH5	2480	1.25	Pass

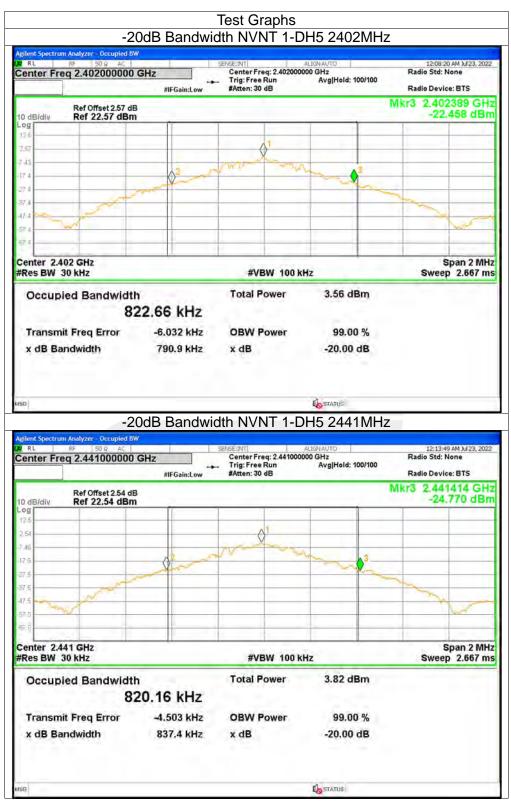


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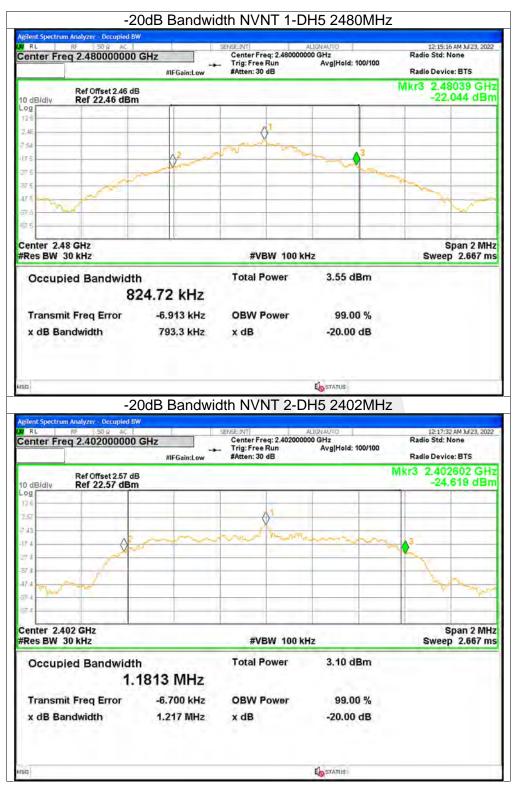
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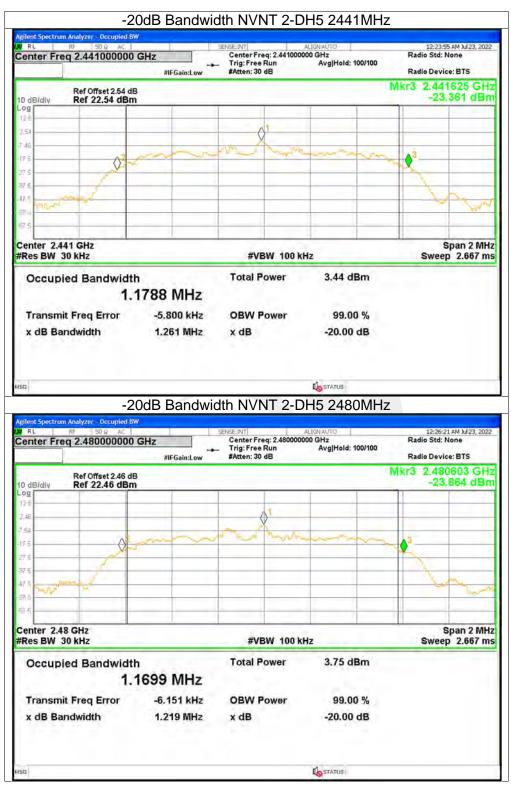
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-2	0dB Bandwi	dth NVNT 3-D	H5 2480MH	2
Agilent Spectrum Analyzer - Occupied BV	H			
Center Freq 2.480000000	GHz #IFGain:Low	SENSE INT Center Freq: 2.4800000 Trig: Free Run #Atten: 30 dB	ALIGNAUTO 000 GHz Avg Hold: 100/100	12:45:22 AM 3J 23, 2022 Radio Std: None Radio Device: BTS
Ref Offset 2.46 dE				Mkr3 2.480618 GH2 -24.224 dBn
12,5				
7.4E		Q'		
754	monim	mon hour	mon	1.3
275				
37.5				2
47.5				1 Anno Anno Anno Anno Anno Anno Anno Ann
315 200				
67.6				
Center 2.48 GHz #Res BW 30 kHz		#VBW 100 k	Hz	Span 2 MH Sweep 2.667 m
Occupied Bandwidt	h	Total Power	3.63 dBm	
[1] M. Barton, M. O. M. Darker, M. Marker, M.	1779 MHz			
Transmit Freq Error	-5.123 kHz	OBW Power	99.00 %	
x dB Bandwidth	1.247 MHz	x dB	-20.00 dB	
ASG			To STATUS	



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5. CARRIER FREQUENCIES SEPARATION

Condition	Mode	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	2402.012	2403.002	0.99	>=0.527	Pass
NVNT	1-DH5	2440.96	2442.004	1.044	>=0.56	Pass
NVNT	1-DH5	2478.994	2479.998	1.004	>=0.527	Pass
NVNT	2-DH5	2401.984	2402.994	1.01	>=0.813	Pass
NVNT	2-DH5	2440.996	2441.988	0.992	>=0.84	Pass
NVNT	2-DH5	2478.996	2479.99	0.994	>=0.813	Pass
NVNT	3-DH5	2401.998	2402.996	0.998	>=0.833	Pass
NVNT	3-DH5	2440.99	2441.996	1.006	>=0.853	Pass
NVNT	3-DH5	2478.998	2479.832	0.834	>=0.833	Pass



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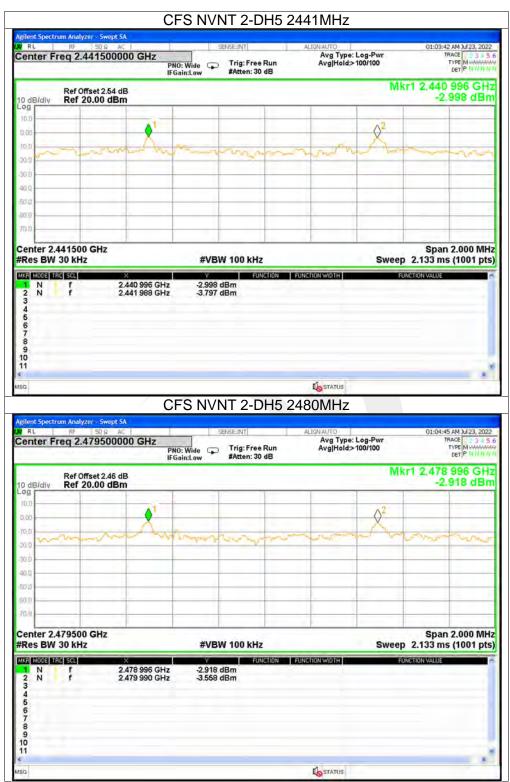


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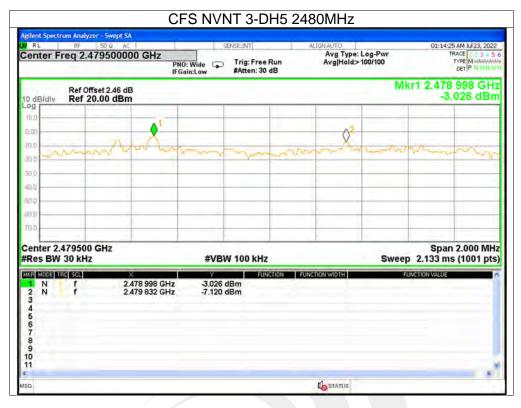


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6. NUMBER OF HOPPING CHANNEL

Condition	Mode	Hopping Number	Limit	Verdict
NVNT	1-DH5	79	>=15	Pass
NVNT	2-DH5	79	>=15	Pass
NVNT	3-DH5	79	>=15	Pass

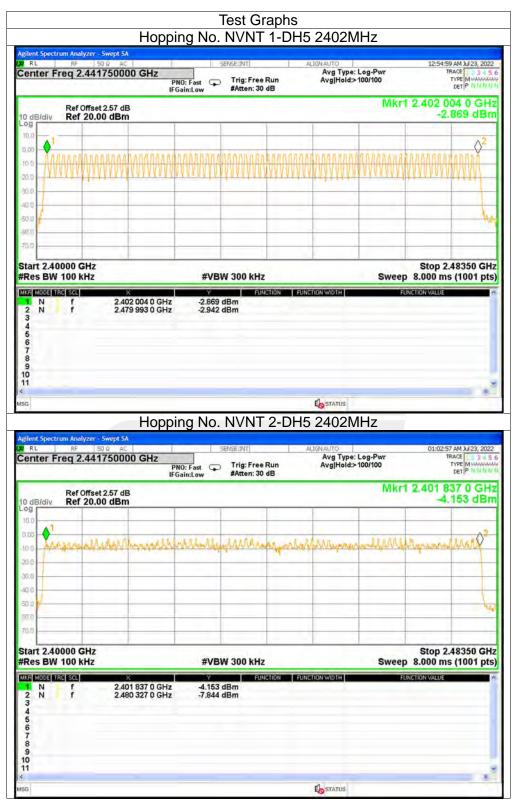


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Hopping No. NVNT 3-DH5 2402MHz pt 5/ nt Spectrum Analyze RL 1:12:37 AM Jul 23, 2022 TYPE M Center Freq 2.441750000 GHz Avg Type: Log-Pwr Avg|Hold>100/100 PNO: Fast Free Run IFGain:Low #Atten: 30 dB Mkr1 2.401 753 5 GHz -7.389 dBm Ref Offset 2.57 dB Ref 20.00 dBm 10 dB/div 0 MAN MANNA 20.1 30.0 401 'nι Stop 2.48350 GHz Sweep 8.000 ms (1001 pts) Start 2.40000 GHz #Res BW 100 kHz #VBW 300 kHz MKR MODE TRC SCL FUNCTION FUNCTION WIDTH UNCTION VALUE N N 2 3 4 5 6 7 8 9 10 11 2.401 753 5 GHz 2.480 494 0 GHz -7.389 dBm -7.165 dBm f TATUS Rica.



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7. BAND EDGE

Condition	Mode	Frequency (MHz)	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	No-Hopping	-43.95	<=-20	Pass
NVNT	1-DH5	2480	No-Hopping	-45.38	<=-20	Pass
NVNT	2-DH5	2402	No-Hopping	-41.22	<=-20	Pass
NVNT	2-DH5	2480	No-Hopping	-49.65	<=-20	Pass
NVNT	3-DH5	2402	No-Hopping	-46.35	<=-20	Pass
NVNT	3-DH5	2480	No-Hopping	-45.79	<=-20	Pass



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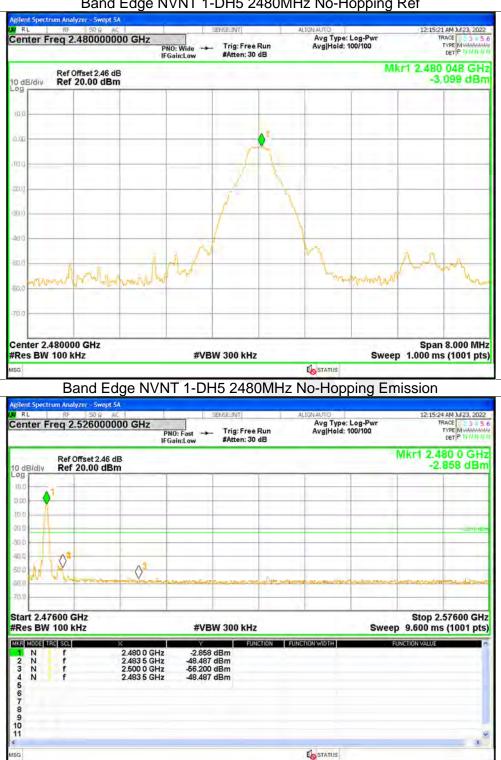
Report No.: STS2203020W01

Izide: Izide: Idia Mara access Avg Type: Log-Perr Trace 3 - 5 Avg Hold: 100/100 Trace 3 - 5 Mkr1 2.402 016 GH
-3.005 dBr
Span 8.000 MH Sweep 1.000 ms (1001 pts Co-Hopping Emission
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Sweep 1.000 ms (1001 pt STATUS IO-Hopping Emission
Avg Type: Log-Pwr TRACE
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Mkr1 2.402 0 GH -2.950 dBi
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warmen and a start of V
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Sweep 9.600 ms (1001 pt
ION WIDTH FUNCTION VALUE



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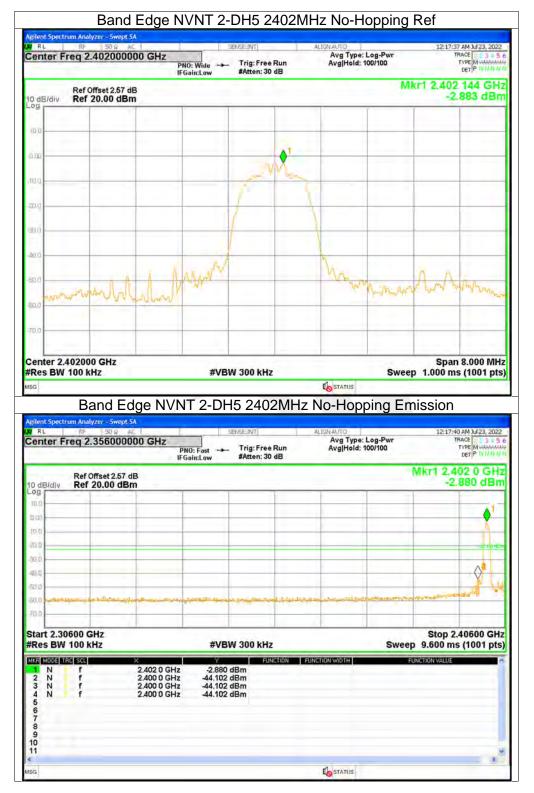


Band Edge NVNT 1-DH5 2480MHz No-Hopping Ref



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enter F	req 2.4800000	000 GHz	PNO: Wide -+	SENSE:INT Trig: Free Run #Atten: 30 dB		e: Log-Pwr 4: 100/100	12:26:26 AM Jul 23, 202 TRACE
amain	Ref Offset 2.46 d	в	Guillean			Mkr1	2.480 008 GH -2.887 dBr
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Res BW	480000 GHz 100 kHz Band Ec	lge NVI		вw 300 кнz H5 2480N	Mostatus 1Hz No-Ho	sweep 1 oping Emis	.000 ms (1001 pt
Res BW G ilent Spect RL	100 kHz	000 GHz	NT 2-D	H5 2480N	IHZ NO-HO ALIGNALITO AVg Typ	· · · · · · · ·	.000 ms (1001 pt Sion 12:26:29 AM 3J23, 202 TRACE 23 5
Res BW iG illent Spect RL	100 kHz Band Ec (m Analyzer - Swept (50 g A (req 2.5260000	54 5 100 GHz 1		H5 2480N Sense:nt]	IHZ NO-HO ALIGNALITO AVg Typ	oping Emis	.000 ms (1001 pt: sion 12:06:29 AM 3/29, 202 TRACE TRACE TRACE S 5 5 TRACE TRA
Res BW	100 kHz Band Ec rum Analyzer - Swept	IDOO GHZ	NT 2-D	H5 2480N	IHZ NO-HO ALIGNALITO AVg Typ	oping Emis	Span 8.000 MH .000 ms (1001 pt
Res BW	100 kHz Band Ec rum Analyzer - Swopt req 2.5260000 Ref Offset 2.46 c	IDO GHZ	NT 2-D	H5 2480N	IHZ NO-HO ALIGNALITO AVg Typ	oping Emis	.000 ms (1001 pt: sion 12:06:29 AM 3/29, 202 TRACE TRACE TRACE S 5 5 TRACE TRA
Res BW sc ellent Spect RL enter F	100 kHz Band Ec rum Analyzer - Swopt req 2.5260000 Ref Offset 2.46 c	IDO GHZ	NT 2-D	H5 2480N	IHZ NO-HO ALIGNALITO AVg Typ	oping Emis	.000 ms (1001 pt: sion 12:06:29 AM 3/29, 202 TRACE TRACE TRACE S 5 5 TRACE TRA
Res BW	100 kHz Band Ec rum Analyzer - Swopt req 2.5260000 Ref Offset 2.46 c	IDO GHZ	NT 2-D	H5 2480N	IHZ NO-HO ALIGNALITO AVg Typ	oping Emis	.000 ms (1001 pt: sion 12:06:29 AM 3/29, 202 TRACE TRACE TRACE S 5 5 TRACE TRA
Res BW	100 kHz Band Ec rum Analyzer - Swopt req 2.5260000 Ref Offset 2.46 c	IDO GHZ	NT 2-D	H5 2480N	IHZ NO-HO ALIGNALITO AVg Typ	oping Emis	.000 ms (1001 pt: sion 12:06:29 AM 3/29, 202 TRACE TRACE TRACE S 5 5 TRACE TRA
Res BW	100 kHz Band Ec rum Analyzer - Swopt req 2.5260000 Ref Offset 2.46 c	IDO GHZ	NT 2-D	H5 2480N	IHZ NO-HO ALIGNALITO AVg Typ	oping Emis	.000 ms (1001 pt: sion 12:06:29 AM 3/29, 202 TRACE TRACE TRACE S 5 5 TRACE TRA
Res BW renter F 0 dB/div 0 g 0 c0 0 c	100 kHz Band Ec rum Analyzer - Swopt req 2.5260000 Ref Offset 2.46 c	IDO GHZ	NT 2-D	H5 2480N	IHZ NO-HO ALIGNALITO AVg Typ	oping Emis	.000 ms (1001 pt: sion 12:06:29 AM 3/29, 202 TRACE TRACE TRACE S 5 5 TRACE TRA
Res BW	100 kHz Band Ec rum Analyzer - Swopt req 2.5260000 Ref Offset 2.46 c	IDO GHZ	NT 2-D	H5 2480N	IHZ NO-HO ALIGNALITO AVg Typ	e: Log-Pwr # 100/100	.000 ms (1001 pt: sion 12:06:29 AM 3/29, 202 TRACE TRACE TRACE S 5 5 TRACE TRA
Res BW	100 kHz Band Ec rum Analyzer - Swept 3 ™ = 50 a a req 2.5260000 Ref Offset 2.46 c Ref 20.00 dB	SA DOO GHZ IB m J J J J J J J J J J J J J	NT 2-D PNO: Fast FGain:Low #VI	H5 2480W	IHZ NO-HO ALIGNALITO AVg Typ	e: Log-Pwr 1: 100/100 Mk	.000 ms (1001 pt: Sion 12:00:29 AM 3423, 2022 TRACE 53 5 TYPE MANAGE 12:00:29 AM 3423, 2022 TRACE 53 5 TYPE MANAGE 10:00 AM 5 TY
Res BW	100 kHz Band Ec rum Analyzer - Swept 3 ™ = 50 a a req 2.5260000 Ref Offset 2.46 c Ref 20.00 dB	2.480 0 GHz 2.480 0 GHz 2.480 0 GHz	NT 2-D PN0: Fast FGain:Low #VI #VI 2 -2.79 2 -53.01 2 -57.63	H5 2480W		e: Log-Pwr 1: 100/100 Mk	.000 ms (1001 pt Sion 12:26:29 AM M29, 202 TRACE 5 3 5 TYPE M MM29, 202 TYPE M MM29, 20
Res BW	100 kHz Band Ec rum Analyzer - Swept 3 S = 50 a a req 2.5260000 Ref Offset 2.46 c Ref 20.00 dBr 1 7 7 600 GHz 100 kHz f	AB BB M 2.480 0 GHz 2.483 5 GHz	NT 2-D PN0: Fast FGain:Low #VI #VI 2 -2.79 2 -53.01 2 -57.63	H5 2480W		e: Log-Pwr 1: 100/100 Mk	.000 ms (1001 pt Sion 12:26:29 AM M29, 202 TRACE 5 3 5 TYPE M MM29, 202 TYPE M MM29, 20
Res BW ac plent Spect RL enter F 0 dB/dlv 0 dB/dlv	100 kHz Band Ec rum Analyzer - Swept 3 S = 50 a a req 2.5260000 Ref Offset 2.46 c Ref 20.00 dBr 1 7 7 600 GHz 100 kHz f	2.480 0 GHz 2.480 0 GHz 2.480 0 GHz	NT 2-D PN0: Fast FGain:Low #VI #VI 2 -2.79 2 -53.01 2 -57.63	H5 2480W		e: Log-Pwr 1: 100/100 Mk	.000 ms (1001 pt Sion 12:26:29 AM M29, 202 TRACE 5 3 5 TYPE M MM29, 202 TYPE M MM29, 20



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	50 9 AC 402000000 GHz	PNO: Wide	SENSE:INT Trig: Free Run #Atten: 30 dB	Augnauro Avg Type: Log-Pwr Avg Hold: 100/100	12:38:29 AM Jul 23, 2022 TRACE 3 5 TYPE M MANNA DET P D M D M
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	nd Edge N\	/NT 3-DH	w 300 кнz 15 2402MHz	Sweep Status 2 No-Hopping Emi	
Ba jilent Spectrum Analyz RL RP			15 2402MHz	NO-HOpping Emi Auguatro Avg Type: Log-Pwr	SSION 12:38:32 AM 1/23, 2022 TRACE 3 3 5 TRACE 3 3 5
Ba ilent Spectrum Analyz RL RF enter Freq 2.3	20 9 42 53 50 9 42 5 356000000 GHz		15 2402MHz	ALISNANTO Avg Type: Log-Pwr Avg Hold: 100/100	SSION 12:38:32 AM 3/123, 2022 TRACE TYPE (M 440000 DET (P 11/11)
Ba giterit Spectrum Analyz RL RF enter Freq 2.3 0 dB/dly Ref 2	zer - Swept SA 50 Ω AC	PNO: Fast	15 2402MHz	ALISNANTO Avg Type: Log-Pwr Avg Hold: 100/100	12:38:32 AM M/23, 2022 TRACE 3 = 5 TYPE (M ALLOW DET P 1/1/10 IKT1 2,402 0 GH
Ba glent Spectrum Analy RL RF center Freq 2.: 0 dB/d/y Ref 0 0 dB/d/y Ref 2	2er - Swept SA 50 g AC 356000000 GHz Tset 2.57 dB	PNO: Fast	15 2402MHz	ALISNANTO Avg Type: Log-Pwr Avg Hold: 100/100	12:38:32 AM M/23, 2022 TRACE 3 = 5 TYPE (M ALLOW DET P 1/1/10 IKT1 2,402 0 GH
Ba glent Spectrum Analy RL Ref Of 0 dB/d/y Ref O 0 dB/d/y Ref 2	2er - Swept SA 50 g AC 356000000 GHz Tset 2.57 dB	PNO: Fast	15 2402MHz	ALISNANTO Avg Type: Log-Pwr Avg Hold: 100/100	12:38:32 AM M/23, 2022 TRACE TYPE M AMAZA DET P 11/10 NKT1 2,402 0 GH:
Ba glent Spectrum Analy RL RF center Freq 2.: 0 dB/d/y Ref 07 0 dB/d/y Ref 2 0 dB/d/y Ref 2	2er - Swept SA 50 g AC 356000000 GHz Tset 2.57 dB	PNO: Fast	15 2402MHz	ALISNANTO Avg Type: Log-Pwr Avg Hold: 100/100	12:38:32 AM M/23, 2022 TRACE TYPE M AMAZA DET P 11/10 NKT1 2,402 0 GH:
Ba glent Spectrum Analy RL Ref Of 0 dB/d/v Ref O 0 dB/d/v Ref 2 0 dB/d/v Ref 2 0 dB/d/v Ref 2	2er - Swept SA 50 g AC 356000000 GHz Tset 2.57 dB	PNO: Fast	15 2402MHz	ALISNANTO Avg Type: Log-Pwr Avg Hold: 100/100	12:38:32 AM M/23, 2022 TRACE TYPE M AMAZA DET P 11/10 NKT1 2,402 0 GH:
glient Spectrum Analyz RL RF center Freq 2.3 0 dB/dly Ref 01 0 dB/dly Ref 2	2er - Swept SA 50 g AC 356000000 GHz Tset 2.57 dB	PNO: Fast	15 2402MHz	ALISNANTO Avg Type: Log-Pwr Avg Hold: 100/100	1.000 ms (1001 pts SSION 12:36:32 AM M23, 2022 TRACE 12:35 TYPE MANNUM DET P WHIN 14:12:402 0 GH: -3,064 dBn
Ba silent Spectrum Analy: RL RF center Freq 2.: 0 dB/dly Ref 2 0 dB/dly R	2er - Swept SA 50 g AC 356000000 GHz Tset 2.57 dB	PNO: Fast	15 2402MHz	ALISNANTO Avg Type: Log-Pwr Avg Hold: 100/100	12:38:32 AM M/23, 2022 TRACE TYPE M MU23, 2022 DET P 11/1 M DET P 11/1 M
Ba	2er - Swept 5A 50 g = 42 356000000 GHz 5et 2.57 dB 10.00 dBm	PNO: Fast	15 2402MHz	ALISNANTO Avg Type: Log-Pwr Avg Hold: 100/100	12:26:32 AM M23, 2022 TRACE 3 3 5 TYPE IM TYPE IM TYPE IM 3.064 dBn
Ba glent Spectrum Analyz RL RF center Freq 2.: 0 dB/dly Ref 07 0 dB/dly Ref 07 0 dB/dly Ref 2 0 g 0 dB/dly Ref 07 0	2er - Swept SA 50 g 42 356000000 GHz Tset 2.57 dB 10.00 dBm	PNO: Fast	15 2402MHz	AUXIANTO AVG Type: Log-Pwr Avg]Hold: 100/100	12:38:32 AM M/23, 2022 TRACE TYPE M AMAZA DET P 11/10 NKT1 2,402 0 GH:

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rlent Spectrum Analyzer - Swe RL RF 50 ହ enter Freq 2.48000	AC 100000 GHz Pr		Free Run m: 30 dB	ALIGNAUTO Avg Type: Log-Pwr Avg Hold; 100/100	12:45:27 AM Jul 23, 2022 TRACE 3 5 TYPE M MANAGE DET P TWIN W
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Res BW 100 kHz	1	#VBW 300	kHz	Swee	p 1.000 ms (1001 pts
G				4	
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Band I		IT 3-DH5 24	480MHz	No-Hopping En	nission
Band I jilent Spectrum Analyzer - Swa RL हर्म 50 ग्र	ept SA AC	IT 3-DH5 24 Sense int		No-Hopping En	12:45:30 AM Jul 23, 2022
Band I jilent Spectrum Analyzer - Swa RL हम् 50 ग्र	PDE 5A AC 100000 GHz P	SENSE IN NO: Fast Trig:		No-Hopping En	12:45:30 AM 3J/23, 2022 TRACE
Band I ilent Spectrum Analyzer - Swo RL RF 50 9 enter Freq 2.52600 Ref Offset 2.4	AC DODOO GHZ POODOO GHZ IF1 46 dB	SEWSEIM NO: Fast Trig:	T Free Run	AUGNANTO Avg Type: Log-Pwr	12:45:30 AM 3/23, 2022 TRACE TYPE MULTURE DET P TYPE MULTURE DET P TYPE MULTURE DET P TYPE MULTURE DET P TYPE MULTURE MKr1 2.480 0 GH:
Band I Stent Spectrum Analyzor - Swo RL SP 50 92 enter Freq 2.52600 Ref Offset 2.4 Ref 20.00 c	AC DODOO GHZ POODOO GHZ IF1 46 dB	SEWSEIM NO: Fast Trig:	T Free Run	AUGNANTO Avg Type: Log-Pwr	12:45:30 AM 3/23, 2022 TRACE TYPE MULTURE DET P TYPE MULTURE DET P TYPE MULTURE DET P TYPE MULTURE DET P TYPE MULTURE MKr1 2.480 0 GH:
Band I Stent Spectrum Analyzor - Swo RL SP 50 92 enter Freq 2.52600 OdB/dly Ref Offset 2.4 Ref Offset 2.000 of 0 dB/dly 0 1	AC DODOO GHZ POODOO GHZ IF1 46 dB	SEWSEIM NO: Fast Trig:	T Free Run	AUGNANTO Avg Type: Log-Pwr	12:45:30 AM 3/23, 2022 TRACE TYPE MULTURE DET P TYPE MULTURE DET P TYPE MULTURE DET P TYPE MULTURE DET P TYPE MULTURE MKr1 2.480 0 GH:
Band I Stert Spectrum Analyzor - Swo RL SP 50 92 enter Freq 2.52600 ab/div Ref 0ffset 2.4 Ref 0ffset 2.000 c	AC DODOO GHZ POODOO GHZ IF1 46 dB	SEWSEIM NO: Fast Trig:	T Free Run	AUGNANTO Avg Type: Log-Pwr	12:45:30 AM 3/23, 2022 TRACE TYPE MULTURE DET P TYPE MULTURE DET P TYPE MULTURE DET P TYPE MULTURE DET P TYPE MULTURE MKr1 2.480 0 GH:
Band I slent Spectrum Analyzor - Swo RL SP 50 92 enter Freq 2.52600 abo od B/dly Ref 20.00 c	AC DODOO GHZ POODOO GHZ IF1 46 dB	SEWSEIM NO: Fast Trig:	T Free Run	AUGNANTO Avg Type: Log-Pwr	12:45:30 AM 3/23, 2022 TRACE TYPE MUMANA DET P TYM W Mkr1 2.480 0 GH
Band I Stent Spectrum Analyzor - Swo RL SP 50 92 enter Freq 2.52600 0 dB/dly Ref 20.00 c 0 dB/dly 0 0 dB/dly	AC DODOO GHZ POODOO GHZ IF1 46 dB	SEWSEIM NO: Fast Trig:	T Free Run	AUGNANTO Avg Type: Log-Pwr	12:45:30 AM 3/23, 2022 TRACE TYPE MUMANA DET P TYM W Mkr1 2.480 0 GH
Band I Stent Spectrum Analyzor - Swe RL RF 50 02 enter Freq 2.52600 0 dB/dly Ref 0ffset 2.4 Ref 0ffset 2.000 of 0 dB/dly Ref 20.00	AC DODOO GHZ POODOO GHZ IF1 46 dB	SEWSEIM NO: Fast Trig:	T Free Run	AUGNANTO Avg Type: Log-Pwr	12:45:30 AM 3/23, 2022 TRACE TYPE MUMANA DET P TYM W Mkr1 2.480 0 GH
Band I stent Spectrum Analyzer - Swo RL PF - So g enter Freq 2.52600 Ref Offset 2.4 Ref Offset 2.4 Ref 20.00 of 0 dB/dly 0 dB/dl	AC DODOO GHZ POODOO GHZ IF1 46 dB	SEWSEIM NO: Fast Trig:	T Free Run	AUGNANTO Avg Type: Log-Pwr	12:45:20 AM 3/23,2022 TRACE 3 = 5 TYPE (M 444000 per/P 1/// M Mkr1 2.480 0 GH: -2.867 dBn
Band I slent Spectrum Analyzer Swe RL SP 50 2 center Freq 2.52600 Band I Ref Offset 2.4 Ref 20.00 c 0 dB/dly Ref 20.00 c 0 dB/dl	AC DODOO GHZ POODOO GHZ IF1 46 dB	SEWSEIM NO: Fast Trig:	Free Run n: 30 dB	No-Hopping En	12:45:30 AM 3/23, 2022 TRACE 3 3 5 TYPE MARKING CEIP WITH W Mkr1 2.480 0 GH: -2.867 dBn -2.867 dBn Stop 2.57600 GH:
Band I stent Spectrum Analyzer - Swe RL SF - SO Q center Freq 2.52600 Ref Offset 2.4 Ref Offset 2.4 Ref Offset 2.4 Ref 20.00 C Start 2.47600 GHz Res BW 100 kHz N F	2.480 0 GHz	SENSE IN NO: Fast Trig: Gain:Low #Atte	Free Run n: 30 dB	No-Hopping En	12:45:30 AM 3/23, 2022 TRACE 3 5 5 TYPE IN ANY CET P 17 I AN ANY -2. 867 dBm -2. 867 dBm -2. 867 dBm -2. 867 dBm -2. 867 dBm
Band I stent Spectrum Analyzer - Swi RL BF - SO Q senter Freq 2.52600 Ref Offset 2.4 Ref Offset 2.4 Ref Offset 2.4 Ref 20.00 C 0 dB/dly Ref 20.00 C 0 dB/dly 0 dB/dly	2.480 0 GHz 2.480 0 GHz	SENSEINT NO: Fast → Trig: Gain:Low #Atte #VBW 300 2.867 dBm -48.592 dBm -57.191 dBm	Free Run n: 30 dB	No-Hopping En	12:45:30 AM 3/23, 2022 TRACE 12:3 = 5 TYPE IM AM DEFINITION OF COMPANY THE INFORMATION OF COMPANY THE INFORMA
Band I stent Spectrum Analyzer - Swi RL BF - SO Q senter Freq 2.52600 Ref Offset 2.4 Ref Offset 2.4 Ref Offset 2.4 Ref 20.00 C 0 dB/dly Ref 20.00 C 0 dB/dly 0 dB/dly	2.480 0 GHz 2.483 5 GHz	SBNSE.M NO: Fast → Trig: Gain:Low #Atte #VBW 300 × -2.867 dBm -48.592 dBm	Free Run n: 30 dB	No-Hopping En	12:45:30 AM 3/23, 2022 YRACE TYPE (MARKING CETP 1//11/10 Mkr1 2.480 0 GH: -2.867 dBn -2.867 dBn Stop 2.57600 GH: p 9.600 ms (1001 pts
Band I sternt Spectrum Analyzer - Sw RL SF 50 Q enter Freq 2.52600 Ref Offset 2.4 Ref Offset 2.4 Ref 20.00 C 0 dB/div 0 dB/div	2.480 0 GHz 2.480 0 GHz	SENSEINT NO: Fast → Trig: Gain:Low #Atte #VBW 300 2.867 dBm -48.592 dBm -57.191 dBm	Free Run n: 30 dB	No-Hopping En	12:45:30 AM 3/23, 2022 YRACE TYPE (MARKING CETP 1//11/10 Mkr1 2.480 0 GH: -2.867 dBn -2.867 dBn Stop 2.57600 GH: p 9.600 ms (1001 pts
Band I slent Spectrum Analyzer - Sw RL RF - SO R enter Freq 2.52600 OdB/dly Ref Offset 2.4 Ref Offset 2.4 Ref Offset 2.4 0 dB/dly Ref 20.00 d 0 d 0 d 0 d 0 d 0 d 0 d 0 d	2.480 0 GHz 2.480 0 GHz	SENSEINT NO: Fast → Trig: Gain:Low #Atte #VBW 300 2.867 dBm -48.592 dBm -57.191 dBm	Free Run n: 30 dB	No-Hopping En	12:45:30 AM 3/23, 2022 TRACE 12:3 = 5 TYPE IM AM DEFINITION OF COMPANY THE INFORMATION OF COMPANY THE INFORMA
Band I sternt Spectrum Analyzer - Sw RL SF 50 Q enter Freq 2.52600 Ref Offset 2.4 Ref Offset 2.4 Ref 20.00 C 0 dB/div 0 dB/div	2.480 0 GHz 2.480 0 GHz	SENSEINT NO: Fast → Trig: Gain:Low #Atte #VBW 300 2.867 dBm -48.592 dBm -57.191 dBm	Free Run n: 30 dB	No-Hopping En	12:45:30 AM 3/23, 2022 TRACE 12:3 = 5 TYPE IM 44 Mkr1 2.480 0 GH2 -2.867 dBm -2.867 dBm Stop 2.57600 GH; p 9.600 ms (1001 pts

Band Edge NVNT 3-DH5 2480MHz No-Hopping Ref

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8. BAND EDGE(HOPPING)

	- (/				
Condition	Mode	Frequency (MHz)	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Hopping	-52.15	<=-20	Pass
NVNT	1-DH5	2480	Hopping	-50.74	<=-20	Pass
NVNT	2-DH5	2402	Hopping	-53.02	<=-20	Pass
NVNT	2-DH5	2480	Hopping	-52.97	<=-20	Pass
NVNT	3-DH5	2402	Hopping	-53.9	<=-20	Pass
NVNT	3-DH5	2480	Hopping	-52.27	<=-20	Pass



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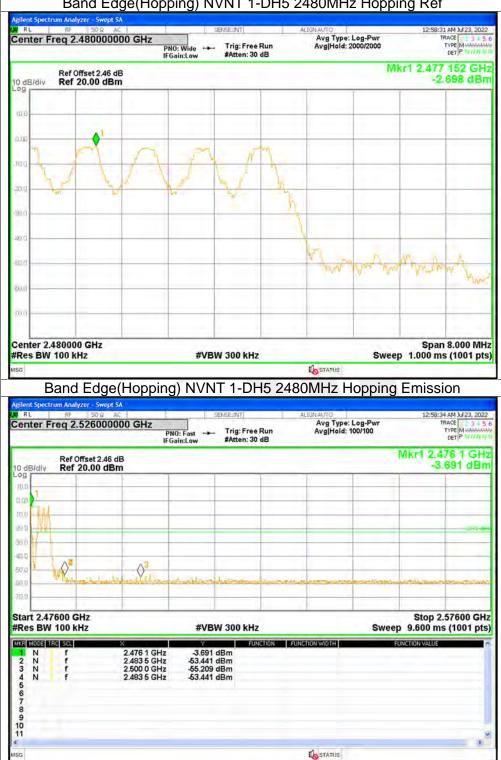
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Band Edge(Hopping) NVNT 1-DH5 2480MHz Hopping Ref

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enter Freq 2.402000000 G	SHz PNO: Wide → IFGain:Low	Trig: Free Run #Atten: 30 dB	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 2000/2000	01:03:14 AM Jul 23, 20 TRACE
Ref Offset 2.57 dB dB/div. Ref 20.00 dBm			15	Mkr1 2.405 008 G -2.914 dE
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Band Edge(Ho lent Spectrum Analyzer - Swept SA RL RF 50 9 #4		NT 2-DH5 24	02MHz Hoppin	g Emission
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Band Edge(Ho Inter Spectrum Analyzer - Swept SA RL RF 30 92 AC anter Freq 2.3560000000 C Ref Offset 2.57 dB Ref 20.00 dBm	SHz PNO: Fast →	SENSEINT]	C2MHz Hoppin	g Emission
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Band Edge(Ho	SHz PNO: Fast →	SENSEINT]	COMHZ Hoppin	g Emission
Band Edge(Ho Int Spectrum Analyzer - Swept SA RL RF 190 2 AC enter Freq 2.356000000 C Ref Offset 2.57 dB dB/div Ref 20.00 dBm 9 00 00 00 00 00 00 00 00 00	SHz PNO: Fast →	SENSEINT]	COMHZ Hoppin	g Emission
Band Edge(Ho	SHZ PN0: Fast IFGein:Low	SBREINT]	ALIGNAUTO AVG Type: Log-Pwr Avg Hold: 100/100	g Emission
Band Edge(Ho	SHZ PN0: Fast IFGein:Low	SERFECINT] Trig: Free Run #Atten: 30 dB	COMHZ Hoppin	g Emission
glient Spectrum Analyzer - Swept SA RL 67 50 g AC Ref 90 g AC AC AC Center Freq 2.356000000 C Ref Offset 2.57 dB Ref Offset 2.57 dB Ref Offset 2.57 dB 0 dB/dly Ref 20.00 dBm AC AC AC 100 AC Ref 20.00 dBm AC AC 100 AC AC AC AC AC 100 AC Ref 20.00 dBm AC AC	3Hz PN0: Fast IFGain:Low #VE 29 GHz 3.10. 00 GHz 57.88: 00 GHz 57.88:	SERFECINT] Trig: Free Run #Atten: 30 dB	ALIGNAUTO AVG Type: Log-Pwr Avg Hold: 100/100	g Emission

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RL RF 50 G enter Freq 2.4800	00000 GHz		ig: Free Run tten: 30 dB	ALIGNAUTO Avg Type: Log- Avg Hold: 2000/2	Pwr	D1:05:03 AM JJ 23, 20 TRACE TYPE M
dB/div. Ref Offset 2,					Mkr1 2	.478 008 GI -2.762 dB
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tes BW 100 kHz		#VBW 30	00 KHz	US STATUS		
Band Ed	ge(Hoppin			BOMHz Hop	sweep 1.00 ping Em	00 ms (1001 p ission
Band Ed	ge(Hoppin	g) NVNT 2	2-DH5 24		Sweep 1.0	00 ms (1001 p ISSION 01:05:06 AM M23, 20 TRACE
Band Edgent Spectrum Analyzer - Sw RL RF Societ Enter Freq 2.5260 Ref Offset 2	ge(Hoppin	g) NVNT 2	2-DH5 24	80MHz Hop	Sweep 1.00 pping Em	00 ms (1001 p ission DLI05:06 AM M23, 20 TRACE TYPE MUMM DET P TV/M
Ient Spectrum Analyzer – Sv RL RF 50 s enter Freq 2.5260	ge(Hoppin	g) NVNT 2	2-DH5 24	80MHz Hop	Sweep 1.00 pping Em	01:05:06 AM Jul 23, 20
Band Ed Band Ed Int Spectrum Analyzor - Sy RL RF 50 c enter Freq 2.5260 Ref Offset 2 dB/dly Ref 20.00	ge(Hoppin	g) NVNT 2	2-DH5 24	80MHz Hop	Sweep 1.00 pping Em	00 ms (1001 p ission DLI05:06 AM M23, 20 TRACE TYPE MUMM DET P TV/M
Band Ed Band Ed Int Spectrum Analyzer - Sy RL RF 50 c enter Freq 2.5260 Ref Offset 2 dB/dly Ref 20,00	ge(Hoppin	g) NVNT 2	2-DH5 24	80MHz Hop	Sweep 1.00 pping Em	Di ms (1001 p ISSION DI 05:06 AM M23, 20 TRACE TYPE MUMM DET P TV/M
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Band Edu Band Edu Int Spectrum Analyzer - Sy RL RF 500 Enter Freq 2.5260 Ref Offset 2 dBidly Ref 20.00	ge(Hoppin	g) NVNT 2	2-DH5 24	80MHz Hop	Sweep 1.00 pping Em	Di ms (1001 p ISSION DI 05:06 AM M23, 20 TRACE TYPE MUMM DET P TV/M
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Band Edg	ge(Hoppin	g) NVNT 2	2-DH5 24	80MHz Hop	Sweep 1.00	00 ms (1001 p ission 01:05:06 AM M23, 20 TRACE 02:05:06 AM M23, 20 TRACE 02:06 AM M23, 20 TRACE 02
Band Edu Band Edu Int Spectrum Analyzor - Sv RL RF Soc meter Freq 2.5260 Ref Offset 2 dBidly Ref 20.00 dBidly Ref 20.00 dBidl	ge(Hoppin	g) NVNT 2	2-DH5 24	80MHz Hop	Sweep 1.00	00 ms (1001 p iSSiON 01:05:06 AM M23, 20 TRACE 23 TYPE MANN 0ET P WM 2.479 1 GF -6.753 dB
Res BW 100 kHz Band Edu Int Spectrum Analyzor - Sv RL RF Soc enter Freq 2.5260 Ref Offset 2 dBidly Ref 20.00 C Ref	ge(Hoppin	g) NVNT 2 SØNSE PNO: Fast → Tri Gain:Low #A	2-DH5 24	80MHz Hop	Sweep 1.00	00 ms (1001 p iSSiON 01:05:06 AM M23, 20 TRACE 3 3 TYPE MANA 0ET P WM 2.479 1 GF -8.753 dB 0 ms (1001 p
Ref Offset 2 Ref Offset 2 Call And Column 2 Call Ref Offset 2 Call Ref Call Ref	ge(Hoppin 2 46 dB dBm	g) NVNT 2 SENSE PNO: Fast → Tri Gain:Low #AA #VBW 30 #VBW 30 × 59.384 dBm -59.380 dBm	2-DH5 24	80MHz Hop	Sweep 1.00	00 ms (1001 p iSSiON 01:05:06 AM M23, 20 TRACE 3 3 TYPE MANA 0ET P WM 2.479 1 GF -8.753 dB 0 ms (1001 p
Ref Offset 2 Ref Offset 2 Call And Column 2 Call Ref Offset 2 Call Ref Call Ref	ge(Hoppin rspt 54 2 26 000000 GHz 46 dB dBm 2.479 1 GHz 2.479 1 GHz 2.479 1 GHz	g) NVNT 2 SØNSE PNO: Fast → Tri Gain:Low #A	2-DH5 24	80MHz Hop	Sweep 1.00	00 ms (1001 p iSSiON 01:05:06 AM M23, 20 TRACE 3 3 TYPE MANA 0ET P WM 2.479 1 GF -8.753 dB 0 ms (1001 p
Res BW 100 kHz Band Edu Int Spectrum Analyzor - Sv RL RF Soc enter Freq 2.5260 Ref Offset 2 dBidly Ref 20.00 C Ref	ge(Hoppin 2 46 dB dBm	g) NVNT 2 SENSE PNO: Fast → Tri Gain:Low #AA #VBW 30 #VBW 30 × 59.384 dBm -59.380 dBm	2-DH5 24	80MHz Hop	Sweep 1.00	00 ms (1001 p iSSiON 01:05:06 AM M23, 20 TRACE 3 3 TYPE MANA 0ET P WM 2.479 1 GF -8.753 dB 0 ms (1001 p

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RL RF 50 9 AC Center Freq 2.402000000 GI	Hz PNO: Wide -+	SENSE:INT Trig: Free Run #Atten: 30 dB	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 2000/2000	01:12:54 AM Jul 23, 203 TRACE
Ref Offset 2.57 dB	IFGain:Low	WAtten: 30 GB	N	lkr1 2.402 008 GH
o dB/div Ref 20.00 dBm				-2.845 dB
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Band Edge(Ho	pping) NVN	IT 3-DH5 24	02MHz Hopping	Emission
rilent Spectrum Analyzer - Swept 5A RL RF 50 9 AC	Hz	SENSE:INT]	02MHz Hopping	01:12:57 AM Jul 23, 202 TRACE
rilent Spectrum Analyzer - Swept 5A RL RF 50 9 AC			02MHz Hopping	01:12:57 AM 3/23, 20 TRACE 3 1 TYPE M 44444 DET P 11/10
stent Spectrum Analyzer - Swept 5A RL RF 50 97 42 enter Freq 2.356000000 G Ref Offset 2.57 dB 0 dB/div Ref 20.00 dBm	Hz] PN0: Fast →	SENSE:INT]	02MHz Hopping	01:12:57 AM 3423, 202 TRACE 3 3 TYPE MUMAN DET P 11/10 Mkr1 2.401 9 GH
stent Spectrum Analyzer - Swept 5A RL 197 (50 gr 42) enter Freq 2:356000000 Gl Ref Offset 2:57 dB 0 dB/dly Ref 20.00 dBm	Hz] PN0: Fast →	SENSE:INT]	02MHz Hopping	01:12:57 AM JU23, 202 TRACE TYPE MUMANA DET P W/M
Rt SP SP (1) SP (2) AC SP (2) SP (2) AC SP (2)	Hz] PN0: Fast →	SENSE:INT]	02MHz Hopping	01:12:57 AM Jul 23, 202
Rt SP SO 27 AC Rt SP SO 27 AC enter Freq 2.356000000 Gl SO 27 AC 0 dB/dly Ref Offset 2.57 dB SO 00 dBm 0 dB/dly Ref 20.00 dBm SO 00 0 dB/dly Ref 20.00 dBm SO 00	Hz] PN0: Fast →	SENSE:INT]	02MHz Hopping	01:12:57 AM JU23, 202 TRACE TYPE MUMANA DET P W/M
silent Spectrum Analyzer - Swept 5A RL 65 50 (2) 40 center Freq 2.356000000 Gl Sector 2.57 dB Sector 2.57 dB Sector 2.57 dB 0 dB/dly Ref Offset 2.57 dB Sector 2.57 dB<	Hz] PN0: Fast →	SENSE:INT]	02MHz Hopping	01:12:57 AM JU23, 202 TRACE TYPE MUMANA DET P W/M
silent Spectrum Analyzer - Swept SA RL SF SO 20 AC enter Freq 2.356000000 GI Sector Ac Sector Ac Sector Ac 0 dB/dly Ref Offset 2.57 dB Sector Ac Sector Ac Sector Ac 0 dB/dly Ref 20.00 dBm Sector Ac Sector Ac Sector Ac Sector Ac 0 dB/dly Ref 20.00 dBm Sector Ac Sector Ac Sector Ac Sector Ac 0 dB/dly Ref 20.00 dBm Sector Ac Sector Ac Sector Ac Sector Ac 0 dB/dly Ref 20.00 dBm Sector Ac Sector Ac Sector Ac Sector Ac 0 dB/dly Ref 20.00 dBm Sector Ac Sector Ac Sector Ac Sector Ac 0 dB/dly Ref 20.00 dBm Sector Ac	Hz] PN0: Fast →	SENSE:INT]	02MHz Hopping	01:12:57 AM JU23, 202 TRACE TYPE MUMANA DET P W/M
Silent Spectrum Analyzer - Swept SA RL SF SO 20 AC enter Freq 2.356000000 GI SC 20 AC SC 20 AC 0 dB/dly Ref Offset 2.57 dB SC 20 AC SC 20 AC 0 dB/dly Ref 20.00 dBm SC 20 AC SC 20 AC SC 20 AC SC 20 SC	Hz] PN0: Fast →	SENSE:INT]	02MHz Hopping	01:12:57 AM JU23, 202 TRACE TYPE MUMANA DET P W/M
glent Spectrum Analyzer – Swept SA RL RE SO 2 42 enter Freq 2.356000000 G Ref Offset 2.57 dB	Hz] PN0: Fast →	SENSE:INT]	02MHz Hopping	01:12:57 AM M23, 202 IRACE
glent Spectrum Analyzer - Swept SA RL SF SO 8 AC enter Freq 2.356000000 Gl Ref Offset 2.57 dB Ref 20.00 dBm Ref 20.00 dBm 0 dB/dly Ref 20.00 dBm 0 0 0 0 0 dB/dly Ref 20.00 dBm 0	Hz PNO: Fast + IFGain:Low	SBASEINT	02MHz Hopping	01:12:57 AM M22, 200 TRACE 3.3 TYPE MARK DET P WAR Mkr1 2.401 9 GH -4.788 dB -4.788 dB -4.78
Ref Offset 2.57 dB Rt Ref Offset 2.57 dB 0 dB/dly Ref Offset 2.57 dB 0 dB/dly Ref 20.00 dBm	Hz PNO: Fast + IFGain:Low	SBYSEINT	02MHz Hopping	01:12:57 AM M23, 20 IRACE DETP W/M DETP W/M Mkr1 2.401 9 GH -4.788 dB -4.788 dB -
glent Spectrum Analyzer - Swept SA RL RF SD 9 AC RL RF SD 9 AC Ret Ref Offset 2.57 dB Ref Offset 2.57 dB Ref Offset 2.57 dB 0 dB/dlv Ref 20.00 dBm 99 90	Hz PNO: Fast + IFGain:Low	SENSEINT	02MHz Hopping	01:12:57 AM M22, 200 TRACE 3.3 TYPE MARK DET P WAR Mkr1 2.401 9 GH -4.788 dB -4.788 dB -4.78

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enter Freq 2.4800	000000 GHz		Free Run n: 30 dB	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 2000/2000	01:14:43 AM 3/123, 202 TRACE
Ref Offset 2 0 dB/div Ref 20.00			-		Mkr1 2.479 008 GH -2.792 dBr
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70.0					
enter 2.480000 GH	z				Span 8.000 MH
Res BW 100 kHz	1.1	#VBW 300	kHz	SW	eep 1.000 ms (1001 pt
gilent Spectrum Analyzer - S	wept SA	g) NVNT 3-	DH5 24	80MHz Hoppin	
rilent Spectrum Analyzer - S R L RP 50	wept 5A ม AC 000000 GHz PI	SENSE:INT			01:14:46 AM 3/423, 202 TRACE
glent Spectrum Analyzer – S RL RF 50 Center Freq 2.5260 Ref Offset2	wept 5A 2 AC 000000 GHz PI IFC 2.46 dB	SENSEINT NO: Fast Trig:	1 Free Run	80MHz Hoppin	01:14:46 AM 3/23, 202 TRACE 53 5 TYPE M 44404 DET P 1//10 MKr1 2.478 9 GH
Bitent Spectrum Analyzer - S RL 85 50 Center Freq 2.5260 Ref Offset2 0 dB/dly Ref 20.00	wept 5A 2 AC 000000 GHz PI IFC 2.46 dB	SENSEINT NO: Fast Trig:	1 Free Run	80MHz Hoppin	02:14:46 AM 3/23, 202 TRACE TRACE DET P 1////0 Mkr1 2.478 9 GH -5, 983 dBr
stlent Spectrum Analyzer - S RL 85 50 enter Freq 2.5260 Ref Offset 2 0 dB/dly Ref 20.00	wept 5A 2 AC 000000 GHz PI IFC 2.46 dB	SENSEINT NO: Fast Trig:	1 Free Run	80MHz Hoppin	01:14:46 AM 3/23, 202 TRACE 53 5 TYPE M 44404 DET P 1//10 MKr1 2.478 9 GH
sitent Spectrum Analyzer - S RL 65 50 center Freq 2.5260 Ref Offset 2 0 dB/dly Ref 20.00 -99 10.0 10.	wept 5A 2 AC 000000 GHz PI IFC 2.46 dB	SENSEINT NO: Fast Trig:	1 Free Run	80MHz Hoppin	01:14:46 AM 3/23, 202 TRACE 53 5 TYPE M 44404 DET P 1//10 MKr1 2.478 9 GH
glient Spectrum Analyzer S RL 65 50 center Freq 2.5260 S0 S0 Ref Offset 86 S0 0 dB/dly Ref Offset S0 0.0 9 1 0.0 1 1 0.0 1 1 0.0 1 1	wept 5A 2 AC 000000 GHz PI IFC 2.46 dB	SENSEINT NO: Fast Trig:	1 Free Run	80MHz Hoppin	01:14:46 AM 3/23, 202 TRACE 53 5 TYPE M 44404 DET P 1//10 MKr1 2.478 9 GH
glient Spectrum Analyzer S0 RL 65 50 center Freq 2.5260 S0 S0 Ref Offset 2 0 dB/dly Ref Offset 2 0 dB/dly Ref 20.00 S0 0 dB/dly 1 1 0 dB/dly Ref 20.00 1 0 glion 1 1	wept 5A 2 AC 000000 GHz PI IFC 2.46 dB	SENSEINT NO: Fast Trig:	1 Free Run	80MHz Hoppin	01:14:46 AM 3/23, 202 TRACE 53 5 TYPE M 44404 DET P 1//10 MKr1 2.478 9 GH
glient Spectrum Analyzer – S RL RF 50 Center Freq 2.5260 Ref Offset 2	wept 5A 2 AC 000000 GHz PI IFC 2.46 dB	SENSEINT NO: Fast Trig:	1 Free Run	80MHz Hoppin	01:14:46 AM 3/23, 202 TRACE 53 5 TYPE M 44404 DET P 1//10 MKr1 2.478 9 GH
Bilent Spectrum Analyzer S0 RL 65 50 Center Freq 2.5260 S0 S0 Ref Offset 2 S0 S0 0.00 S0 S0 S0 0.01 S0 S0 S0	wept 5A 2 AC 000000 GHz PI IFC 2.46 dB	SENSEINT NO: Fast Trig:	1 Free Run	80MHz Hoppin	01:14:46 AM 3/23, 202 TRACE 53 5 TYPE M 44404 DET P 1//10 MKr1 2.478 9 GH
Bilent Spectrum Analyzer S0 RL 65 50 Center Freq 2.5260 S0 S0 0 dB/dly Ref Offset 2 S0 0 dB/dly Ref 20.00 S0 0 dB/dly S0 S0 0 dB/dly S0 S0 0 dB/dly S0 S0	wept 5A 2 AC 000000 GHz PI IFC 2.46 dB	SENSEINT NO: Fast Trig:	Free Run n: 30 dB	80MHz Hoppin	01:14:46 AM 3/23, 202 TRACE 53 5 TYPE M 44404 DET P 1//10 MKr1 2.478 9 GH
Ref Offset 2 S0 RL 65 50 Enter Freq 2.5260 50 50 0 dB/dly Ref Offset 2 50 0 dB/dly Ref 20.00 60 0 dB/dly	xept:SA 2 AC 2000000 GHz PIFC 2.46 dB 0 dBm	SERVECINT NO: Fast Trig: Bain:Low #Atte	Free Run n: 30 dB	80MHz Hoppin	01:14:46 AM 3/23, 202 TRACE 3.32 TYPE MATTINE DET P WITH Mkr1 2.478 9 GH -5.983 dBr
glent Spectrum Analyzy - S RL RF SD Center Freq 2.5260 Ref Offset 2 SD O dB/dly Ref Offset 2 SD 0 dB/dly Ref 20.00 SD 0 dB/dly Ref 20.00 <thsd< th=""> 0 dB/dly Ref 20.00 SD 0 dB/dly Ref 20.00 <thsd< th=""> SD</thsd<></thsd<>	Wept SA 9 AC 1000000 GHz PIFC 2.46 dB 0 dBm 2.478 9 GHz 2.478 9 GHz 2.433 5 GHz 2.433 5 GHz 2.433 5 GHz	#VBW 300	Free Run n: 30 dB	80MHz Hoppin	01:14:46 AM 3/23, 202 TRACE TYPE M 44444 DETP W/W Mkr1 2.478 9 GH -5.983 dBr -5.983 dBr -5.984 dBr
glent Spectrum Analyzy - S RL RF SD Center Freq 2.5260 Ref Offset 2 SD O dB/dly Ref Offset 2 SD 0 dB/dly Ref 20.00 SD 0 dB/dly Ref 20.00 <thsd< th=""> 0 dB/dly Ref 20.00 SD 0 dB/dly Ref 20.00 <thsd< th=""> SD</thsd<></thsd<>	Wept SA 2 AC 2000000 GHz P IFO 2.46 dB 0 dBm 0 dBm 0 dBm 0 dBm 0 dBm 0 dBm 0 dBm 0 dBm	SENSE MT NO: Fast → Trig: Bain:Low #Atte #VBW 300 5-5983 dBm -55.081 dBm	Free Run n: 30 dB	80MHz Hoppin	01:14:46 AM 3/23, 202 TRACE TYPE M 44444 DETP W/W Mkr1 2.478 9 GH -5.983 dBr -5.983 dBr -5.984 dBr
glent Spectrum Analyzy - S RL RF SD Center Freq 2.5260 Ref Offset 2 SD O dB/dly Ref Offset 2 SD 0 dB/dly Ref 20.00 SD 0 dB/dly Ref 20.00 <thsd< th=""> 0 dB/dly Ref 20.00 SD 0 dB/dly Ref 20.00 <thsd< th=""> SD</thsd<></thsd<>	Wept SA 9 AC 1000000 GHz PIFC 2.46 dB 0 dBm 2.478 9 GHz 2.478 9 GHz 2.433 5 GHz 2.433 5 GHz 2.433 5 GHz	#VBW 300	Free Run n: 30 dB	80MHz Hoppin	01:14:46 AM 3/23, 202 TRACE TYPE M 44444 DETP W/W Mkr1 2.478 9 GH -5.983 dBr -5.983 dBr -5.984 dBr
glent Spectrum Analyzy - S RL RF SD Center Freq 2.5260 Ref Offset 2 SD O dB/dly Ref Offset 2 SD 0 dB/dly Ref 20.00 SD 0 dB/dly <td>Wept SA 9 AC 1000000 GHz PIFC 2.46 dB 0 dBm 2.478 9 GHz 2.478 9 GHz 2.433 5 GHz 2.433 5 GHz 2.433 5 GHz</td> <td>#VBW 300</td> <td>Free Run n: 30 dB</td> <td>80MHz Hoppin</td> <td>01:14:46 AM 3/23, 202 TRACE TYPE M 44444 DETP W/W Mkr1 2.478 9 GH -5.983 dBr -5.983 dBr -5.984 dBr</td>	Wept SA 9 AC 1000000 GHz PIFC 2.46 dB 0 dBm 2.478 9 GHz 2.478 9 GHz 2.433 5 GHz 2.433 5 GHz 2.433 5 GHz	#VBW 300	Free Run n: 30 dB	80MHz Hoppin	01:14:46 AM 3/23, 202 TRACE TYPE M 44444 DETP W/W Mkr1 2.478 9 GH -5.983 dBr -5.983 dBr -5.984 dBr
Ref Offset 2 S0 RL 65 50 Enter Freq 2.5260 50 50 0 dB/dly Ref Offset 2 50 0 dB/dly Ref 20.00 60 0 dB/dly	Wept SA 9 AC 1000000 GHz PIFC 2.46 dB 0 dBm 2.478 9 GHz 2.478 9 GHz 2.433 5 GHz 2.433 5 GHz 2.433 5 GHz	#VBW 300	Free Run n: 30 dB	80MHz Hoppin	01:14:46 AM 3/23, 202 TRACE TYPE M 44444 DETP M/M Mkr1 2.478 9 GH -5.983 dBr -5.983 dBr -5.984 dBr -5.984 dBr -5.984

Band Edge (Honning) NI/NIT 3-DH5 2480MHz Honning Pof

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9. CONDUCTED RF SPURIOUS EMISSION

Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	-48.43	<=-20	Pass
NVNT	1-DH5	2441	-46.68	<=-20	Pass
NVNT	1-DH5	2480	-46.42	<=-20	Pass
NVNT	2-DH5	2402	-48.58	<=-20	Pass
NVNT	2-DH5	2441	-51.2	<=-20	Pass
NVNT	2-DH5	2480	-46.33	<=-20	Pass
NVNT	3-DH5	2402	-47.05	<=-20	Pass
NVNT	3-DH5	2441	-47.54	<=-20	Pass
NVNT	3-DH5	2480	-45.59	<=-20	Pass



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	T. 0		est Graphs		
gilent Spectrum Analyzer -		urious NV	1-DH5	2402MHz Ref	
Center Freq 2.402	2000000 GHz	PNO: Wide	SE:INT Trig: Free Run #Atten: 20 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 100/100	12:07:24 AM 3/23, 2022 TRACE 3 3 5 TYPE M 444444 DET P 1/41 M
Ref Offset	t 2.57 dB	IT Gallicow		Mkr	1 2.401 995 5 GH -2.953 dBr
o dB/div Ref 12.5	07 dBm				-2,505 0.51
<u>9.57</u>					
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	and the second				
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m 8		-			
Center 2,4020000 G Res BW 100 kHz	GHZ	#VBM			Span 1.500 MH
		#*0.094	300 kHz	Sweep	o 1.000 ms (1001 pts
se				K STATUS	
gilent Spectrum Analyzer - g RL 87 5	Swept SA	ous NVNT		02MHz Emission	ר 12:07:56 AM Jul 23, 2022
gilent Spectrum Analyzer -	Swept SA 30 Q AC 55000000 GHz		1-DH5 24	02MHz Emission	12:07:56 AM 3J 23, 2023 TRACE 1 3 4 5 TYPE M AMANY
gilent Spectrum Analyzer - RL RF S Center Freq 13.26 Ref Offsel	Swept SA 30 Q AC 35000000 GHz t 2.57 dB		1-DH5 24	CO2MHz Emission	12:07:56 AM 3/23, 202 TRACE TYPE MINIMUM DEF[P MINIMUM Mkr1 2,401 7 GH
Ref Offsel	Swept SA 30 Q AC 35000000 GHz t 2.57 dB		1-DH5 24	CO2MHz Emission	12:07:56 AM 3/23, 202 TRACE TYPE MINIMUM DEF[P MINIMUM Mkr1 2,401 7 GH
ellent Spectrum Analyzer RL RF S Center Freq 13.20 Ref Offsel 0 dB/div. Ref 12.5	Swept SA 30 Q AC 35000000 GHz t 2.57 dB		1-DH5 24	CO2MHz Emission	12:07:56 AM 3/23, 2022 TRACE TRACE TYPE MUMMING DET[P 10:01 MKr1 2,401 7 GH
Ref Offsel Calification of the second secon	Swept SA 30 Q AC 35000000 GHz t 2.57 dB		1-DH5 24	CO2MHz Emission	12:07:56 AM 3/23, 2022 TRACE TRACE TYPE MUMMING DET[P 10:01 MKr1 2,401 7 GH
Ref Offsel BRI REF S Center Freq 13.26 Ref Offsel O B/div Ref 12.5 257 7.43 37.4 27.4	Swept SA 30 Q AC 35000000 GHz t 2.57 dB		1-DH5 24	CO2MHz Emission	12:07:56 AM 3/23, 2022 TRACE TRACE TYPE MUMMANA BELF MUMA Mkr1 2.401 7 GH
Ref Offsel Calification of the second secon	Swept SA 30 Q AC 35000000 GHz t 2.57 dB		1-DH5 24	CO2MHz Emission	12:07:56 AM 3/23, 2022 TRACE TRACE TYPE MUMMANA BELF MUMA Mkr1 2.401 7 GH
Billent Spectrum Analyzer S RL RF S Center Freq 13.26 Ref Offsel 0 B/div Ref Offsel 257 7.43 37.4 37.4 37.4 37.4 37.4 37.4 37.4 37.4 37.4 37.4	Swept SA 30 Q AC 35000000 GHz t 2.57 dB		1-DH5 24	CO2MHz Emission	12:07:56 AM 3/23, 2022 TRACE TRACE TYPE MUMMANA BELF MUMA Mkr1 2.401 7 GH
Billent Spectrum Analyzer S RL RF S Center Freq 13.26 S OB/div Ref Offsel OB/div Ref 12.5 Og 1 7.43 1 37.4 37.4 47.4 37.4	Swept SA 30 Q AC 35000000 GHz t 2.57 dB	PNO: Fast	1-DH5 24	CO2MHz Emission	12:07:56 AM 3/23, 2022 TRACE TRACE TYPE MUMMANA BELF MUMA Mkr1 2,401 7 GH
gillent Spectrum Analyzer R R RF S Center Freq 13.26 Ref Offsel G 0 dB/div Ref 12,5 1 7.4 - 1 - 37.4 - 1 - 37.4 - 1 - 37.4 - 1 - 47.4 - - - 37.4 - - - 37.4 - - - 37.4 - - - 37.4 - - - 37.4 - - - 37.4 - - - 37.4 - - - 37.4 - - - 37.4 - - - 37.4 - - - 37.4 - - -	Swept SA 30 Q AC 35000000 GHz t 2.57 dB	PNO: Fast	1-DH5 24	CO2MHz Emission	12:07:56 AM 3/23, 2022 TRACE TRACE DEFINITION Mkr1 2,401 7 GH -3.081 dBn
Billent Spectrum Analyzer S RL RF S Center Freq 13.26 Ref Offsel Og 257 7.43 37.4 37.4 37.4 47.4 57.4 57.4	Swept SA 30 Q AC 35000000 GHz t 2.57 dB	PNO: Fast IFGain:Low	TI-DH5 24	CO2MHz Emission	۲ 12:07:56 AM Jul 23, 2022 TRACE TYPE Mkr1 2,401 7 GH -3.081 dBn -3.081 dBn -3.081 dBn -3.081 dBn -3.081 dBn -3.081 dBn
Ref Offset Ref Ref Ref Ref Ref Ref Ref Ref Ref Ref	Swept SA 30 2 AC 35000000 GHz t2.57 dB 57 dBm 4 3 4 2.4017 GH	PNO: Fast ++ IFGain:Low #VBW	T-DH5 24	CO2MHz Emission	12:07:56 AM Jul 23, 2022
Ref Offset Ref Ref Ref Ref Ref Ref Ref Ref Ref Ref	Swept SA 30 9 AC 35000000 GHz 12.57 dB 57 dBm 4804 3 GH 4.804 3 GH	DUS NVNT SEN PNO: Fast. → IFGain:Low #VBW X Z	Trig: Free Run #Atten: 20 dB 300 kHz	CO2MHz Emission	۲ 12:07:56 AM Jul 23, 2022 TRACE TYPE Mkr1 2,401 7 GH -3.081 dBn -3.081 dBn -3.081 dBn -3.081 dBn -3.081 dBn -3.081 dBn
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Ref Offset O BJ/div Ref 12.5 Order Freq 13.20 O BJ/div Ref 12.5 O BJ/div Ref 13.5 O BJ/di BJ/div Ref 13.5 O BJ/div Ref 13.5 O BJ/div Ref 1	Swept SA 30 9 AC 35000000 GHz t2.57 dB 57 dBm 4 4 4 2.401 7 GH 4.804 3 GH 4.804 3 GH 4.804 3 GH 4.804 3 GH	2 51.388 dE z 51.388 dE z 51.388 dE z 55.864 dE	TI-DH5 24	CO2MHz Emission	۲ 12:07:56 AM 3/23, 2022 TRACE TYPE MANAGE TYPE TYPE TYPE TYPE TYPE TYPE TYPE TYPE



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gilent Spectrum Analyzer - Swep RL RF 50 ହ enter Freq 2.441000	000 GHz	PNO: Wide	SENSE:INT Trig: Free Run #Atten: 20 dB	AUGNAUTO Avg Type: Log-Pwr Avg Hold; 100/100	12:13:54 AM Jul 23, 202 TRACE
Ref Offset 2.54 0 dB/div Ref 12.54 dE	dB		2012/02/04/04	Mk	r1 2.441 139 5 GH -2.652 dBr
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2.54	_			<u>\$</u> 1	
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17.5	-				-
7.5 Mar 100		_			and have
A NOT	1000				
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Res BW 100 kHz			w 300 кнz IT 1-DH5 2-	Swe Status 441MHz Emissio	ep 1.000 ms (1001 pt
Res BW 100 kHz R glent Spectrum Analyzer - Swep RL RF 50 2	xA ₩ 00000 GHz	ous NVN	IT 1-DH5 2	441MHz Emissio	ep 1.000 ms (1001 pt DD
Res BW 100 kHz R glent Spectrum Analyzer - Swep RL RF 50 2	15A AC 100000 GHz	ous NVN	NT 1-DH5 2	441MHz Emissio	ep 1.000 ms (1001 pt DD 12:14:25 AM M23, 202 TRACE 3 1 4 TYPE M MARK DET P 11/1/1
Res BW 100 kHz	45A 200000 GHz 1 dB		NT 1-DH5 2 SENSE:INT . Trig: Free Run	441MHz Emissio	ep 1.000 ms (1001 pt DN 12:14:25 AM M23, 202 TRACE 2:3 a S TYPE [M MAR DET [P 1/ M A
stent Spectrum Analyzer Swep RL 85 50 2 senter Freq 13.26500 Ref Offset 2.54 0 dB/dly Ref 12.54 dB	45A 200000 GHz 1 dB		NT 1-DH5 2 SENSE:INT . Trig: Free Run	441MHz Emissio	ep 1.000 ms (1001 pt DN 12:14:25 AM M23, 202 TRACE 3 3 5 TYPE [M MA DET P 1/ 1/ 1/ 1 Mkr1 2.441 4 GH
Res BW 100 kHz	45A 200000 GHz 1 dB		NT 1-DH5 2 SENSE:INT . Trig: Free Run	441MHz Emissio	ep 1.000 ms (1001 pt DN 12:14:25 AM M23, 202 TRACE 2:3 - 5 TYPE [M MAR DET [P 1/ M M Mkr1 2.441 4 GH -3.044 dBr
Res BW 100 kHz all T: glent Spectrum Analyzer - Swa Rt 65 500 enter Freq 13.26500 Ref Offset 2.54 Ref 12.54 dB 254 254	45A 200000 GHz 1 dB		NT 1-DH5 2 SENSE:INT . Trig: Free Run	441MHz Emissio	ep 1.000 ms (1001 pt DN 12:14:25 AM M23, 202 TRACE 3 3 5 TYPE [M MA DET P 1/ 1/ 1/ 1 Mkr1 2.441 4 GH
Res BW 100 kHz	45A 200000 GHz 1 dB		NT 1-DH5 2 SENSE:INT . Trig: Free Run	441MHz Emissio	ep 1.000 ms (1001 pt DN 12:14:25 AM M23, 202 TRACE 2:3 - 5 TYPE [M MAR DET [P 1/ M M Mkr1 2.441 4 GH -3.044 dBr
Res BW 100 kHz Image: Sectrom Analyzer - Sweet	45A 200000 GHz 1 dB		NT 1-DH5 2 SENSE:INT . Trig: Free Run	441MHz Emissio	ep 1.000 ms (1001 pt DN 12:14:25 AM M23, 202 TRACE 2:3 - 5 TYPE [M MAR DET [P 1/ M M Mkr1 2.441 4 GH -3.044 dBr
Res BW 100 kHz Image: Sector and Analyzer - Swape Image Image: Sector	45A 200000 GHz 1 dB		NT 1-DH5 2 SENSE:INT . Trig: Free Run	441MHz Emissio	12:14:25 AM 30:23, 2022 TRACE 3 3 = 5 TYRE MAXIMUM OUT P 1///// Mkr1 2.441 4 GH 3.044 dBr
Res BW 100 kHz ac glent Spectrum Analyzer - Swept RL RF Senter Freq 13.26500 OdB/dly Ref Offset 2.54 db 0254 748 175 175 175 175	45A 200000 GHz 1 dB		NT 1-DH5 2 SENSE:INT . Trig: Free Run	441MHz Emissio	ep 1.000 ms (1001 pt DN 12:14:25 AM M23, 202 TRACE 2:3 a S TYPE [M WIN Mkr1 2,441 4 GH -3.044 dBr
Res BW 100 kHz Image: Sector and Analyzer - Swape Image Image: Sector	45A 200000 GHz 1 dB	PNO: Fast	NT 1-DH5 2 SENSE:INT . Trig: Free Run	ALIGNALITO AVIG Type: Log-Pwr AvigHold: 10/10	ep 1.000 ms (1001 pt DD 12:14:25 AM M23, 202 TRACE 13:15 TYPE MM Mkr1 2,441 4 GH -3.044 dBr -2165 et Stop 26.50 GH
Res BW 100 kHz iei isigent Spectrum Analyzer - Swept RL ISI isigent Spectrum Analyzer - Swept Ret ISI isigent Spectrum Analyzer - Swept Ret ISI isigent Spectrum Analyzer - Swept Ret Isigent Spectrum Analyzer - Swept isisigent Spect isigent Spect<	2.441 4 GHz	PNO: Fast FGsin:Low #VB	VT 1-DH5 2: SENSE:INT • Trig: Free Run #Atten: 20 dB • W 300 kHz • W 300 kHz	ALIGNALITO AVIG Type: Log-Pwr AvigHold: 10/10	ep 1.000 ms (1001 pt: DN 12:14:25 AM M23, 202 TRACE 2:3 - 5 TYPE [M MAN DET [P W MAN Mkr1 2.441 4 GH -3.044 dBr
Res BW 100 kHz iei isigent Spectrum Analyzer - Swept RL ISI isigent Spectrum Analyzer - Swept Ret ISI isigent Spectrum Analyzer - Swept Ret ISI isigent Spectrum Analyzer - Swept Ret Isigent Spectrum Analyzer - Swept isisigent Spect isigent Spect<	2.441 4 GHz 5.781 0 GHz	PNO: Fast FGain:Low #VB #VB 3.044 49.331 49.767	VT 1-DH5 2: SENSE:INT Trig: Free Run #Atten: 20 dB W 300 kHz W 300 kHz BM dBm dBm dBm	ALEXANDO AVG TYPE: LOG-PWF AVG Hold: 10/10	ep 1.000 ms (1001 pt: DN 12:14:25 AM M23, 202 TRACE 2:3 - 5 TYPE [M MARK DET [P W MARK Mkr1 2:441 4 GH -3.044 dBr -3.044 dBr -3.044 dBr -3.044 dBr
Res BW 100 kHz iei isigent Spectrum Analyzer - Swept RL ISI isigent Spectrum Analyzer - Swept Ret ISI isigent Spectrum Analyzer - Swept Ret ISI isigent Spectrum Analyzer - Swept Ret Isigent Spectrum Analyzer - Swept isisigent Spect isigent Spect<	ESA AZ 00000 GHz dB 3m ↓ 3m ↓ 2.441 4 GHz 5.781 0 GHz	PNO: Fast FGain:Low #VB #VB 3.044 49.331 49.767	VT 1-DH5 2: SENSE:INT] • Trig: Free Run #Atten: 20 dB W 300 kHz W 300 kHz BM dBm dBm dBm dBm	ALEXANDO AVG TYPE: LOG-PWF AVG Hold: 10/10	ep 1.000 ms (1001 pt DN 12:14:25 AM M23, 202 TRACE 2:3 - 5 TYPE [M MAR Mkr1 2:441 4 GH -3.044 dBr -3.044 dBr -3.044 dBr -3.044 dBr
Res BW 100 kHz rel rel relent Spectrum Analyzer – Swar RL FS 50 2 renter Freq 13.26500 Ref Offset 2.54 0 dB/dly Ref 12.54 dB 254 7.48 17.5	2.441 4 GHz 5.781 0 GHz	PNO: Fast FGain:Low #VB #VB 3.044 49.331 49.767	VT 1-DH5 2: SENSE:INT] • Trig: Free Run #Atten: 20 dB W 300 kHz W 300 kHz BM dBm dBm dBm dBm	ALEXANDO AVG TYPE: LOG-PWF AVG Hold: 10/10	ep 1.000 ms (1001 pt DN 12:14:25 AM M23, 202 TRACE 2:3 - 5 TYPE [M MAR Mkr1 2:441 4 GH -3.044 dBr -3.044 dBr -3.044 dBr -3.044 dBr

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enter Freq 2.48000	0000 GHz	NO: Wide	SENSE:INT Trig: Free Run #Atten: 20 dB	ALIGN AUTO Avg Type Avg Hold		TRAC TYP DE	E Multine P William
Ref Offset 2.4 Ref 12.46 d					Mkr1	2.480 138	10 GH 10 dBr
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17.6							the second
11							~
51.5							
9.6		_					_
Res BW 100 kHz	x. Spurio		w 300 кнz IT 1-DH5	<mark>کاندی</mark> (1995) 2480MHz	-	Span 1 1.000 ms (
Res BW 100 kHz so glent Spectrum Analyzer - Swe RL RF 50 S	Tx. Spuriou	us NVN	NT 1-DH5	2480MHz Alignauto Avg Type	Emission	1.000 ms (12:16:01 AM	1001 pt
Res BW 100 kHz so glent Spectrum Analyzer - Swe RL RF 50 S	X. Spuriou	us NVN	IT 1-DH5	2480MHz	Emission :: Log-Pwr : 10/10	1.000 ms (12:16:01 AM TRAC TVF DE	1001 pt
Res BW 100 kHz	X. Spuriou		NT 1-DH5	2480MHz Alignauto Avg Type	Emission :: Log-Pwr : 10/10	1.000 ms (12:16:01 AM TRAC TYP DE Akr1 2.480	1001 pt
Res BW 100 kHz	X. Spuriou		NT 1-DH5	2480MHz Alignauto Avg Type	Emission :: Log-Pwr : 10/10	1.000 ms (12:16:01 AM TRAC TYP DE Akr1 2.480	1001 pt
Res BW 100 kHz	X. Spuriou		NT 1-DH5	2480MHz Alignauto Avg Type	Emission :: Log-Pwr : 10/10	1.000 ms (12:16:01 AM TRAC TYP DE Akr1 2.480	1001 pt
Res BW 100 kHz se glient Spectrum Analyzer - Swee RL<	X. Spuriou		NT 1-DH5	2480MHz Alignauto Avg Type	Emission :: Log-Pwr : 10/10	1.000 ms (12:16:01 AM TRAC TYP DE Akr1 2.480	1001 pt
Res BW 100 kHz se glient Spectrum Analyzer - Swee RL<	X. Spuriou		NT 1-DH5	2480MHz Alignauto Avg Type	Emission :: Log-Pwr : 10/10	1.000 ms (12:16:01 AM TRAC TYP DE Akr1 2.480	1001 pt 1001 pt
Res BW 100 kHz	X. Spuriou		NT 1-DH5	2480MHz Alignauto Avg Type	Emission :: Log-Pwr : 10/10	1.000 ms (12:16:01 AM TRAC TYP DE Akr1 2.480	1001 pt 1001 pt
Rt RF SD 92 Rt RF SD 92 Center Freq 13.2650 Ref Offset 2.4 Ref 12.46 d 0 dB/dly 246 1 1 7.54 1 1 1 7.54 1 1 1 7.54 1 1 1 7.54 1 1 1 7.54 1 1 1 7.54 1 1 1 7.54 1 1 1 7.54 1 1 1 7.55 1 1 1 7.57 1 1 1 7.57 1 1 1 7.57 1 1 1 7.57 1 1 1 7.57 1 1 1 7.57 1 1 1 7.57 1 1 1 7.57 1 1 1	X. Spuriou	NO: Fast Gain:Low	NT 1-DH5	2480MHz Alignauto Avg Type	Emission :: Log-Pwr : 10/10	1.000 ms (12:16:01 AM TRAC TYP DE Akr1 2.480	1001 pt 1001 pt
Res BW 100 kHz sej gilent Spectrum Analyzer - Swe RL RF Senter Freq 13.2650 O dB/dly Ref Offset2.4 0 dB/dly Ref 12.46 d 92 17.5 17.5 17.5 17.5	X. Spuriou	NO: Fast Gain:Low	NT 1-DH5	2480MHz Alignauto Avg Type	Emission :: Log-Pwr : 10/10	1.000 ms (1001 pt
Res BW 100 kHz	X. Spuriou	NO: Fast Gain:Low	NT 1-DH5	2480MHz Alignauto Avg Type	Emission :: Log-Pwr : 10/10	1.000 ms (1001 pt
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Res BW 100 kHz sej glient Spectrum Analyzer - Swe RL<	X. Spuriou	NO: Fast Gain:Low	VT 1-DH5	2480MHz	Emission :: Log-Pwr : 10/10	1.000 ms (12:16:01 AP TRAC TO TO TRAC 12:16:01 AP TRAC TO TO TO TRAC TO TO TO TO TO TO TO TO TO TO	1001 pt
Res BW 100 kHz sej glient Spectrum Analyzer - Swe RL<	X. Spuriou	US NVN	VT 1-DH5	2480MHz	Emission :: Log-Pwr : 10/10	1.000 ms (12:16:01 AP TRAC TO TO TRAC 12:16:01 AP TRAC TO TO TO TRAC TO TO TO TO TO TO TO TO TO TO	1001 pt

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	50 9 AC		SENSE:INT	ALIGN AUTO	12:17:45 AM Jul 23, 20
enter Freq 2.40	02000000 GH	Z PNO: Wide -+ IFGain:Low	Trig: Free Run #Atten: 20 dB	Avg Type: Log-Pw Avg Hold: 100/100	DET P 11 M IN
	et 2.57 dB .57 dBm				Mkr1 2.401 995 5 GI -2.922 dB
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enter 2.4020000	011-				Span 1.500 M
		urious NV	NT 2-DH5 2	402MHz Emis	sion
RL RF	r - Swept SA 50 มิ AC		SENSE:INT	ALIGNAUTO Avg Type: Log-Pw	12:18:16 AM Jul 23, 20 TRACE
RL RF	r - Swept SA 50 มิ AC			ALIGN AUTO	12:18:16 AM Jul 23, 20 TRACE TYPE M MANA DET P 17/10
RL RF enter Freq 13.2 Ref Offs dB/div Ref 12	r - Swept SA 50 มิ AC	Hz PN0: Fast →	SENSE:INT	ALIGNAUTO Avg Type: Log-Pw	12:16:16.4M M.23, 20 TRACE
enter Freq 13.2 Ref Offs	r - Swept SA 50 Ω AC 265000000 G	Hz PN0: Fast →	SENSE:INT	ALIGNAUTO Avg Type: Log-Pw	12:16:16.4M M.23, 20 TRACE
RL PS enter Freq 13.2 dB/dlv Ref 12 57 43	r - Swept SA 50 Ω AC 265000000 G	Hz PN0: Fast →	SENSE:INT	ALIGNAUTO Avg Type: Log-Pw	12:16:16 AM 3423, 20 TRACE
RL PS enter Freq 13.2 dB/dlv Ref 12	r - Swept SA 50 Ω AC 265000000 G	Hz PN0: Fast →	SENSE:INT	ALIGNAUTO Avg Type: Log-Pw	12:16:16 AM 3423, 20 TRACE
RL Ref Offs	r - Swept SA 50 Ω AC 265000000 G	Hz PN0: Fast →	SENSE:INT	ALIGNAUTO Avg Type: Log-Pw	12:16:16 AM 3423, 20 TRACE
RL Ref Offs dB/dlv Ref 12.2	r - Swept SA 50 Ω AC 265000000 G	Hz PN0: Fast →	SENSE:INT	ALIGNAUTO Avg Type: Log-Pw	12:16:16 AM 3423, 20 TRACE
RL Reformed 13.2	r - Swept SA 50 Ω AC 265000000 G	Hz PN0: Fast →	SENSE:INT	ALIGNAUTO Avg Type: Log-Pw	12:16:16.4M M.23, 20 TRACE
RL RF Ponter Freq 13.2 dB/dlv Ref 12 g dB/dlv Ref 12 g dD/dlv Ref 12 g dD/dl	r - Swept SA 50 Ω AC 265000000 G	Hz PN0: Fast →	SENSE:INT	ALIGNAUTO Avg Type: Log-Pw	12:18:16 AM M23, 20 TRACE 33 TYPE (MANAGE DET P 1// // Mkr1 2.401 7 GF -4, 805 dB
RL Ref Offs dB/dlv Ref 12.2 9 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	r-Swept SA 50 x AC 265000000 G set 2.57 dB .57 dBm	Hz PNO: Fast IFGain:Low	SENSE:INT	ALIGNAVIO Avg Type: Log-Pwi Avg Hold: 10/10	12:18:16 AM M23, 22 TRACE 33 TYPE M MAN DET P W/M Mkr1 2.401 7 Gł -4, 805 dB
Ref Offs dB/dlv Ref 12	r=Swept SA 50 R AC 265000000 G set 2.57 dB .57 dBm 4 4 4 2 2 2.4017	Hz PNO: Fast → IFGsin:Low #VI	SERVERINT	ALIGNAVIO Avg Type: Log-Pwi Avg Hold: 10/10	12:18:16 AM M23, 22 TRACE 33 TYPE M MAN DET P W/M Mkr1 2.401 7 Gł -4, 805 dB
Ref Offs dB/dlv Ref 12	r - Swept SA S0 2 → C 265000000 G set 2.57 dB .57 dBm √3 √2 √3 √2 2.401 7 5.780 2 4.803 4	Hz PNO: Fast → IFGsin:Low #VI 7 GHz 4.80 2 GHz 51.50 4 GHz 55.56	SERVECINT	ALIGNAVIO Avg Type: Log-Pwi Avg Hold: 10/10	12:38:16 AM M23, 20 TRACE 3 3 Tryote 1 4 MAN Cerip 1 4 MAN -4, 805 dB -4, 805 dB -4, 805 dB -2 20 Stop 26.50 G Sweep 2.530 s (30001 p
Ref Offs dB/dlv Ref 12	r - Swept SA 50 ≈ AC 265000000 G set 2.57 dB .57 dBm ↓ 57 dBm	Hz PNO: Fast → IFGsin:Low #VI 7 GHz 4.80 2 GHz 51.50 4 GHz 53.56	SEME:INT	ALIGNAVIO Avg Type: Log-Pwi Avg Hold: 10/10	12:38:16 AM M23, 20 TRACE 3 3 Tryote 1 4 MAN Cerip 1 4 MAN -4, 805 dB -4, 805 dB -4, 805 dB -2 20 Stop 26.50 G Sweep 2.530 s (30001 p
Ref Offs dB/dlv Ref 12	r - Swept SA 50 € AC 265000000 G set 2.57 dB .57 dBm 4803 2 2 2 2 2 2 4.803 4.803 4.7199 E	Hz PNO: Fast → IFGsin:Low #VI 7 GHz 4.80 2 GHz 51.50 4 GHz 53.56	SENSEINT	ALIGNAVIO Avg Type: Log-Pwi Avg Hold: 10/10	12:38:16 AM M23, 20 TRACE 3 3 Tryote 1 4 MAN Cerip 1 4 MAN -4, 805 dB -4, 805 dB -4, 805 dB -2 20 Stop 26.50 G Sweep 2.530 s (30001 p
RL Ref Offs Bldlv Ref 12 B GB/dlv Ref 12 B GB/dlv Ref 12 B GB/dlv Ref 12 B GB/dlv Ref 12 B GB/dlv Ref 12 B GB/dlv Ref 12 C GB/dlv Ref 12 C GB/	r - Swept SA 50 € AC 265000000 G set 2.57 dB .57 dBm 4803 2 2 2 2 2 2 4.803 4.803 4.7199 E	Hz PNO: Fast → IFGsin:Low #VI 7 GHz 4.80 2 GHz 51.50 4 GHz 53.56	SENSEINT	ALIGNAVIO Avg Type: Log-Pwi Avg Hold: 10/10	12:38:16 AM M23, 20 TRACE 3 3 Tryote 1 4 MAN Cerip 1 4 MAN -4, 805 dB -4, 805 dB -4, 805 dB -2 20 Stop 26.50 G Sweep 2.530 s (30001 p

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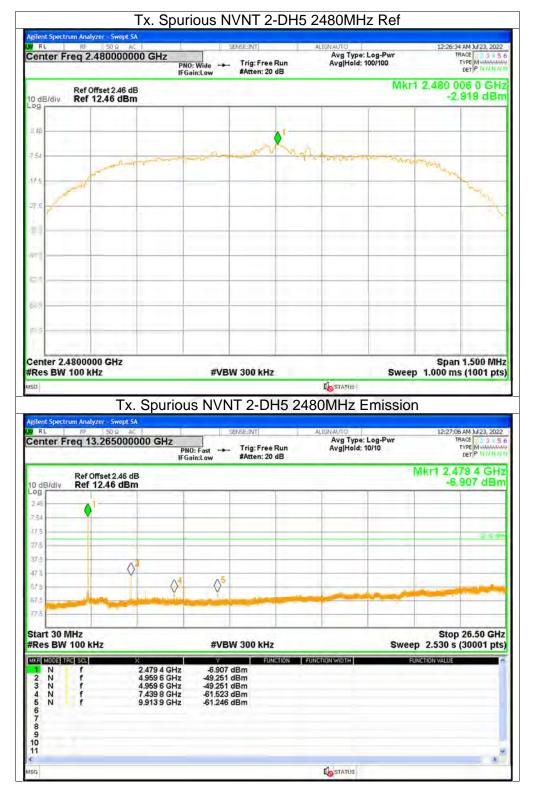
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	1000000 GHz	PNO: Wide	. Trig: Free Run #Atten: 20 dB	Avg Type: Log-Pwr Avg Hold; 100/100	TYPE MAAAAA DET P 1. MA
dB/div Ref 0ffset				Mk	r1 2.440 995 5 GH -2.676 dB
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lent Spectrum Analyzer -			eralen aut		
RL RF 5			SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr	TRACE
RL RF 5		PNO: Fast IFGain:Low	- Trig: Free Run #Atten: 20 dB		TRACE
RL RF 5 enter Freq 13.26 Ref Offset dB/dly Ref 12.5	5000000 GHz	PNO: Fast -+	. Trig: Free Run	Avg Type: Log-Pwr	TYPE MAAAAA DET PT/TH
RL RF 5 enter Freq 13.26 Ref Offset dB/div Ref 12.5	5000000 GHz	PNO: Fast -+	. Trig: Free Run	Avg Type: Log-Pwr	TYPE MANNA
RL RF 55 enter Freq 13.26 dB/dly Ref 0ffset 54 46	5000000 GHz	PNO: Fast -+	. Trig: Free Run	Avg Type: Log-Pwr	TYPE MANNA
RL RF 5 enter Freq 13.26 dB/dlv Ref 0ffset 5.54 4.6 7.5	5000000 GHz	PNO: Fast -+	. Trig: Free Run	Avg Type: Log-Pwr	TYPE MANNA
RL RF 5 enter Freq 13.26 dB/div Ref 0ffset dB/div Ref 12.5	5000000 GHz	PNO: Fast -+	. Trig: Free Run	Avg Type: Log-Pwr	12:24:31 AM 3/23, 202 TRACE 3 4 TYPE (M 12
RL RF 5 enter Freq 13.26 dB/dlv Ref 0ffset dB/dlv Ref 12.5	5000000 GHz	PNO: Fast -+	. Trig: Free Run	Avg Type: Log-Pwr	TYPE MANNA
RL RF S enter Freq 13.26 Ref Offset dB/dlv Ref 12.5 46 1 75 1 75 1 75 1 75 1 75 1 75 1 75 1	5000000 GHz	PNO: Fast -+	. Trig: Free Run	Avg Type: Log-Pwr	TYPE MAAAAA DET PT/TH
RL RF S enter Freq 13.26 Ref Offset 0 dB/dlv Ref 12.5 29 1 7.5 1 7.5 1 7.5 1 7.5 1 7.5 1 7.5 1 7.5 1 7.5 1 7.5 1 7.5 1	5000000 GHz	PNO: Fast -+	. Trig: Free Run	Avg Type: Log-Pwr	TYPE MANNA
RL RF S enter Freq 13.26 Ref Offset Ref Offset 0 dB/dlv Ref 0112.5 Ref 0112.5 54	5000000 GHz	PNO: Fast IFGain:Low ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	. Trig: Free Run	Avg Type: Log-Pwr Avg Hold: 10/10	Mkr1 2.441 4 GF -7.291 dB
RL RF S enter Freq 13.26 dB/div Ref Offset dB/div Ref 015.26	55000000 GHz t2.54 dB 44 dBm	PNO: Fast IFGain:Low	Trig: Free Run #Atten: 20 dB	Avg Type: Log-Pwr Avg Hold: 10/10	TYPE MANNA
RL Ref Offset odB/div Ref 12.50 0dB/div Ref 12.50 54 46 75 75 75 75 75 75 75 75 75 75 75 75 75	2.441 4 G 4.882 0 G	PNO: Fast IFGain:Low ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	Trig: Free Run #Atten: 20 dB	Avg Type: Log-Pwr Avg Hold: 10/10	Mkr1 2.441 4 GF -7.291 dB
RL RF S enter Freq 13.26 Ref Offset 0 dB/div Ref 12.5 0 dB/div Ref 12.5 75 75 75	2.54 dB 4 dBm	PNO: Fast IFGain:Low	Trig: Free Run #Atten: 20 dB	Avg Type: Log-Pwr Avg Hold: 10/10	Mkr1 2.441 4 GF -7.291 dB
RL RF S enter Freq 13.26 Ref Offset dB/div Ref 12.5 d5/div Ref 12.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 1 N 2 N 2 N 3 N 4 N 4 N	25000000 GHz t254 dB t4 dBm 2.441 4 G 4.820 G 4.820 G 4.820 G 7.317 2 G	PNO: Fast IFGain:Low	Trig: Free Run #Atten: 20 dB	Avg Type: Log-Pwr Avg Hold: 10/10	Mkr1 2.441 4 GF -7.291 dB



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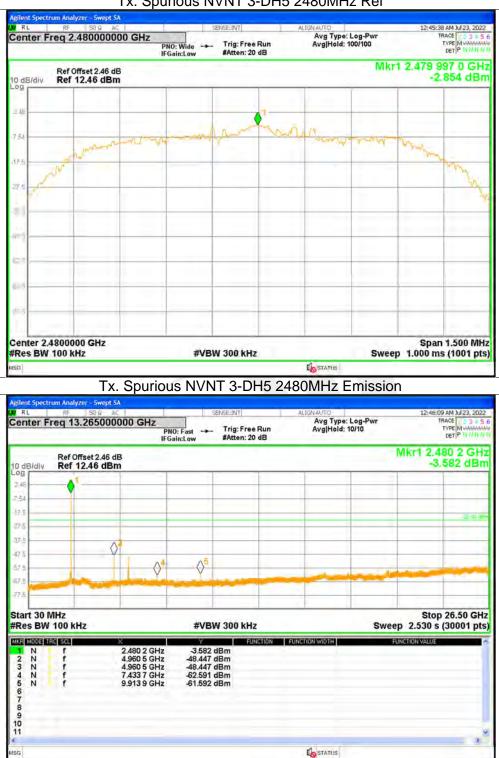
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RL RF Renter Freq 2	50 9 AC	PN	O: Wide	SENSE:INT Trig: Free Run #Atten: 20 dB	ALIGNAUTO Avg Type: Avg Hold: 1	Log-Pwr 00/100	12:44:22 AM Jul 23, 202 TRACE 3 3 5 TYPE M MANNA DET P 17/11
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gilent Spectrum Ana RL RF	Tx. S	0 GHz	us NVN	IT 3-DH5	2441MHz E	mission	1.000 ms (1001 pt 12:44:53 AM 3/23, 202 TRACE TYPE MANMON DET P 1/1/10
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ia gilent Spectrum Ana RL RF ienter Freq 1 Ref I	Tx. \$	0 GHz		IT 3-DH5	2441MHz E	mission Log-Pwr 0/10	12:44:53 AM 1/23, 202 TRACE
enter Freq 1	Tx. \$	0 GHz		IT 3-DH5	2441MHz E	mission Log-Pwr 0/10	12:44:53 AM 1/23, 202 TRACE
RL RF RL RF enter Freq 1 0 dB/div Ref 254 7 48	Tx. \$	0 GHz		IT 3-DH5	2441MHz E	mission Log-Pwr 0/10	12:44:53 AM 1/23, 202 TRACE
RL REf enter Freq 1 0 dB/div Ref 254 7 48 17.5	Tx. \$	0 GHz		IT 3-DH5	2441MHz E	mission Log-Pwr 0/10	12:44:53 AM M23, 202 TRACE TYPE MINIMUM CETP WINN CETP W
RL Ref RL RF enter Freq 1 0 dB/div Ref 254 7 48 17.5 27.5 37.5 47.5	Tx. \$	0 GHz		IT 3-DH5	2441MHz E	mission Log-Pwr 0/10	12:44:53 AM M23, 202 TRACE TYPE MINIMUM CETP WINN CETP W
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RL RF Center Freq 1	Tx. \$	0 GHz		IT 3-DH5	2441MHz E	mission Log-Pwr 0/10	12:44:53 AM 3/23, 202 TRACE TYPE MAANNY DET P 1///// CT1 2,441 4 GH -3,560 dBr
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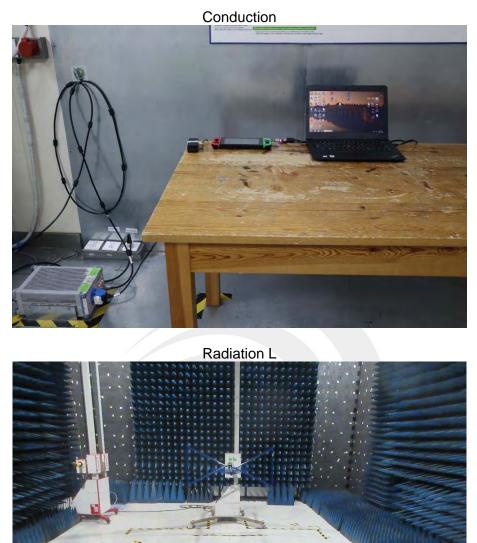


Tx. Spurious NVNT 3-DH5 2480MHz Ref

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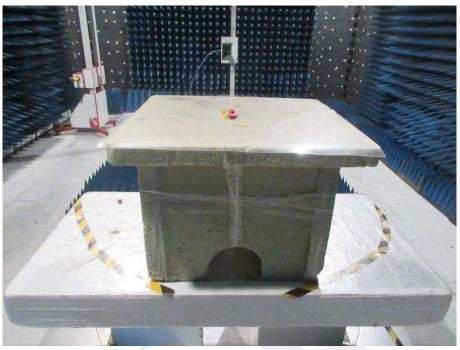
APPENDIX 2-PHOTOS OF TEST SETUP



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