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	CC TEST REPO	
Report Number		
Date of Test	: May 17, 2024 to May 29, 2024	
Date of issue	: May 29, 2024	
Test Result	: PASS	
Testing Laboratory	:: Guangdong Zhonghan Testing	g Technology Co., Ltd.
Address	: Room 104, Building 1, Yibaolai I Fuhai Street, Bao'an District, Sh	
Applicant's name	: Shenzhen SaiFeng Electronic	Technology Co., Ltd
Address	: Community, Ban Tin Street, Lon	ggangDistrict, Shenzhen City, Chin
Test specification:	Ð	Ð
Test specification:		
Standard	FCC CFR Title 47 Part 15 Subpa	art C Section 15.247
Test procedure	:: KDB558074 D01 15.247 Meas (ANSI C63.10:2013	Guidance v05r02
Non-standard test method	: N/A	
test (EUT) is in compliance with the report. This report shall not be reproduc	is been tested by ZHT, and the test res the requirements. And it is applicable of ced except in full, without the written ap ersonal only, and shall be noted in the r	only to the tested sample identified pproval of ZHT, this document may
Product name	Wireless headset	P
Trademark	: N/A	
	: N/A : TWS-SE, TWS-SE-60, TWS-SE	-70, TWS-SE-80, TWS-SE-90,
		-70, TWS-SE-80, TWS-SE-90,
Model/Type reference	: TWS-SE, TWS-SE-60, TWS-SE TWS-SE-ONE : TWS-SE is tested model, other i	models are derivative models .The nly difference on model name and
Model/Type reference	: TWS-SE, TWS-SE-60, TWS-SE TWS-SE-ONE : TWS-SE is tested model, other i models are identical in circuit, or Charging box. So the test data of	models are derivative models .The nly difference on model name and of TWS-SE can represent the









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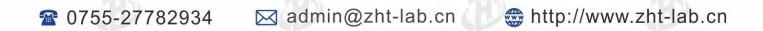
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1. VERSION

Report No.	Version	Description	Approved
ZHT-240517030E-2	Rev.01	Initial issue of report May 29	
11	al.	11	100
712	210	710	712





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2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

	FCC Part15 (15.247) , Subpart C		
Standard Section	Test Item	Judgment	Remark
FCC part 15.203/15.247 (b)(4)	Antenna requirement	PASS	CP.
FCC part 15.207	AC Power Line Conducted Emission	N/A	
FCC part 15.247 (b)(3)	Conducted Peak Output Power	PASS	
FCC part 15.247 (a)(2)	Channel Bandwidth& 99% OCB	PASS	
FCC part 15.247 (e)	Power Spectral Density	PASS	
FCC part 15.247(d)	Band Edge	PASS	15
FCC part 15.205/15.209	Spurious Emission	PASS	()

NOTE:

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

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3.1 TEST FACILITY

Guangdong Zhonghan Testing Technology Co., Ltd. Add. : Room 104, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District Shenzhen, Guangdong, China

FCC Registration Number:255941 Designation Number: CN0325 IC Registered No.: 29832 CAB identifier: CN0143

3.2 MEASUREMENT UNCERTAINTY

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

No.	Item	Uncertainty
1	3m camber Radiated spurious emission(30MHz-1GHz)	U=4.3dB
2	3m chamber Radiated spurious emission(1GHz-18GHz)	U=4.5dB
3	3m chamber Radiated spurious emission(18GHz-40GHz)	U=3.34dB
4	Conducted Adjacent channel power	U=1.38dB
5	Conducted output power uncertainty Above 1G	U=1.576dB
6	Conducted output power uncertainty below 1G	U=1.28dB
7	humidity uncertainty	U=5.3%
8	Temperature uncertainty	U=0.59 ℃
9	Radiated disturbance(30MHz- 1000MHz)	U=4.8dB
10	Radiated disturbance(1GHz- 6GHz)	U=4.9dB
11	Radiated disturbance(1GHz- 18GHz)	U=5.0dB





3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Product Name:	Wireless headset
Model No.:	TWS-SE
Hardware Version:	V1.0
Software Version:	V1.0
Sample(s) Status:	Engineer sample
Operation Frequency:	2402MHz~2480MHz
Channel Numbers:	40
Channel Separation:	2MHz
Modulation Type:	GFSK
Antenna Type:	PCB antenna
Antenna gain:	-8.46dBi
Power supply:	Charging box input: DC 5 V,
	Earphone: DC 5 V by Charging box or DC 3.7 V by battery



Operation	Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency	
1	2402 MHz	11	2422 MHz	21	2442 MHz	31	2462 MHz	
2	2404 MHz	12	2424 MHz	22	2444 MHz	32	2464 MHz	
3	2406 MHz	13	2426 MHz	23	2446 MHz	33	2466 MHz	
4	2408 MHz	14	2428 MHz	24	2448 MHz	34	2468 MHz	
5	2410 MHz	15	2430 MHz	25	2450 MHz	35	2470 MHz	
6	2412 MHz	16	2432 MHz	26	2452 MHz	36	2472 MHz	
7	2414 MHz	17	2434 MHz	27	2454 MHz	37	2474 MHz	
8	2416 MHz	18	2436 MHz	28	2456 MHz	38	2476 MHz	
9	2418 MHz	19	2438 MHz	29	2458 MHz	39	2478 MHz	
10	2420 MHz	20	2440 MHz	30	2460 MHz	40	2480 MHz	

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The lowest channel	2402MHz
The middle channel	2440MHz
The Highest channel	2480MHz

3.2 DESCRIPTION OF TEST MODES

	Transmitting mode Remark: EUT use new nominal rated supply v condition. So the repo	/ battery during the oltage, and found	that the worst c	oltage was tune	d from 85% to 1	
5 3	3.3 TEST SETUP CONFIGUE	RATION	Ð		B	æ
	EUT E-1					





3.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

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

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
	6	11		16.	dit.
6	2	60	2		D

	Note	Length	Ferrite Core	Shielded Type	Item
	15	15	3		

Note:

(1) The support equipment was authorized by Declaration of Confirmation.

(2) For detachable type I/O cable should be specified the length in cm in $\[$ Length $\]$ column.



3.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation emissions& Radio Test equipment

Equipment	Manufacturer	Model	Instrument number	Last Cal.	Next Cal.
Receiver	R&S	ESCI	ZH-E005	May 10, 2024	May 09, 2025
Loop antenna	EMCI	LAP600	ZH-E036	May 10, 2024	May 09, 2025
Amplifier	Schwarzbeck	BBV 9743 B	ZH-E019	May 10, 2024	May 09, 2025
Amplifier	Schwarzbeck	BBV 9718 B	ZH-E021	May 10, 2024	May 09, 2025
Bilog Antenna	Schwarzbeck	VULB9168	ZH-E017	Aug. 05, 2023	Aug. 05, 2024
Horn Antenna	Schwarzbeck	BBHA9120D	ZH-E020	May 16, 2024	May 15, 2025
Horn Antenna	A.H.SYSTEM S	SAS574	ZH-E062	May 10, 2024	May 09, 2025
Amplifier	AEROFLEX	100KHz-40GHz	ZH-E063	May 10, 2024	May 09, 2025
Spectrum Analyzer	R&S	FSV40	ZH-E064	May 16, 2024	May 15, 2025
CDNE	Schwarzbeck	CDNE M2 + CDNE M3	ZH-E029	May 10, 2024	May 09, 2025
966 Anechoic Chamber	EMToni	9m6m6m	ZH-E001	Nov. 25, 2021	Nov. 24, 2024
Spectrum Analyzer	KEYSIGHT	N9020A	ZH-E032	May 10, 2024	May 09, 2025
WIDBAND RADIO COMMUNICATIO N TESTER	R&S	CMW500	ZH-E033	May 10, 2024	May 09, 2025
Single Generator	Agilent	N5182A	ZH-E034	May 10, 2024	May 09, 2025
Power Sensor	MWRFtest	MW100-RFCB	ZH-E066	May 10, 2024	May 09, 2025
Audio analyzer	R&S	UPL	ZH-E067	May 10, 2024	May 09, 2025
Single Generator	R&S	SMB100A	ZH-E068	May 10, 2024	May 09, 2025
Power Amplifier Shielding Room	EMToni	2m3m3m	ZH-E003	Nov. 25, 2021	Nov. 24, 2024
	Receiver Loop antenna Amplifier Amplifier Bilog Antenna Horn Antenna Horn Antenna Horn Antenna Amplifier Spectrum Analyzer CDNE 966 Anechoic Chamber Spectrum Analyzer WIDBAND RADIO COMMUNICATIO N TESTER Single Generator Power Sensor Audio analyzer Single Generator	ReceiverR&SLoop antennaEMCIAmplifierSchwarzbeckAmplifierSchwarzbeckBilog AntennaSchwarzbeckHorn AntennaSchwarzbeckHorn AntennaA.H.SYSTEMSpectrum AnalyzerR&SCDNESchwarzbeck966 Anechoic ChamberEMToniSpectrum AnalyzerKEYSIGHTWIDBAND RADIO COMMUNICATIO N TESTERR&SSingle GeneratorAgilentPower SensorMWRFtestAudio analyzerR&SSingle GeneratorR&SSingle GeneratorSSingle	ReceiverR&SESCILoop antennaEMCILAP600AmplifierSchwarzbeckBBV 9743 BAmplifierSchwarzbeckBBV 9718 BBilog AntennaSchwarzbeckBBV 9718 BHorn AntennaSchwarzbeckBBHA9120DHorn AntennaSchwarzbeckBBHA9120DHorn AntennaA.H.SYSTEM S AS574SAS574AmplifierAEROFLEX100KHz-40GHzSpectrum AnalyzerR&SFSV40CDNESchwarzbeckCDNE M2 + CDNE M3966 Anechoic ChamberEMToni9m6m6mSpectrum AnalyzerKEYSIGHTN9020AWIDBAND RADIO COMMUNICATIO N TESTERAgilentN5182APower SensorMWRFtestMW100-RFCBAudio analyzerR&SSMB100APower AmplifierEMToni2m3m3m	EquipmentManufacturerModelnumberReceiverR&SESCIZH-E005Loop antennaEMCILAP600ZH-E036AmplifierSchwarzbeckBBV 9743 BZH-E019AmplifierSchwarzbeckBBV 9718 BZH-E021Bilog AntennaSchwarzbeckBBV 9718 BZH-E021Horn AntennaSchwarzbeckBBHA9120DZH-E020Horn AntennaSchwarzbeckBBHA9120DZH-E062AmplifierAEROFLEX100KHz-40GHzZH-E062AmplifierAEROFLEX100KHz-40GHzZH-E063Spectrum AnalyzerR&SFSV40ZH-E029966 Anechoic ChamberEMToni9m6m6mZH-E001Spectrum AnalyzerKEYSIGHTN9020AZH-E032WIDBAND RADIO COMMUNICATIO N TESTERR&SCMW500ZH-E033Single GeneratorAgilentN5182AZH-E034Power SensorMWRFtestMW100-RFCBZH-E067Single GeneratorR&SSMB100AZH-E068Power AmplifierEMToni2m3m3mZH-E068	EquipmentManufacturerModelnumberLast Cal.ReceiverR&SESCIZH-E005May 10, 2024Loop antennaEMCILAP600ZH-E036May 10, 2024AmplifierSchwarzbeckBBV 9743 BZH-E019May 10, 2024AmplifierSchwarzbeckBBV 9718 BZH-E019May 10, 2024Bilog AntennaSchwarzbeckBBV 9718 BZH-E017Aug. 05, 2023Horn AntennaSchwarzbeckBBHA9120DZH-E020May 16, 2024Horn AntennaA.H.SYSTEMSAS574ZH-E062May 10, 2024AmplifierAEROFLEX100KHz-40GHzZH-E063May 10, 2024Spectrum AnalyzerR&SFSV40ZH-E064May 16, 2024CDNESchwarzbeckCDNE M2 + CDNE M3 +ZH-E001Nov. 25, 2021Spectrum AnalyzerKEYSIGHTN9020AZH-E033May 10, 2024WIDBAND RADIO COMMUNICATIOR&SCMW500ZH-E033May 10, 2024Single GeneratorAgilentN5182AZH-E066May 10, 2024Power SensorMWRFtestMW100-RFCBZH-E068May 10, 2024Audio analyzerR&SSMB100AZH-E068May 10, 2024Power AmplifierEMToni2m3m2ZH-E068May 10, 2024

B







Conduction Test equipment

Equipment	Manufacturer	Model	Instrument number	Last Cal.	Next Cal.
Receiver	R&S	ESCI	ZH-E005	May 10, 2024	May 09, 2025
LISN	R&S	ENV216	ZH-E006	May 10, 2024	May 09, 2025
ISN CAT 6	Schwarzbeck	NTFM 8158	ZH-E012	May 10, 2024	May 09, 2025
ISN CAT 5	Schwarzbeck	CAT5 8158	ZH-E013	May 10, 2024	May 09, 2025
Capacitive Voltage Probe	Schwarzbeck	CVP 9222 C	ZH-E014	May 10, 2024	May 09, 2025
Current Transformer Clamp	Schwarzbeck	SW 9605	ZH-E015	May 10, 2024	May 09, 2025
CE Shielding Room	EMToni	9m4m3m	ZH-E002	Nov. 25, 2021	Nov. 24, 2024

Conducted Test equipment

Equipment	Manufacturer	Model	Instrument number	Last Cal.	Next Cal.
Spectrum Analyzer	KEYSIGHT	N9020A	ZH-E032	May 10, 2024	May 09, 2025
Single Generator	Agilent	N5182A	ZH-E034	May 10, 2024	May 09, 2025





4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

Test Requirement:	FCC Part15 C Section 15.207
Test Method:	ANSI C63.10:2013
Test Frequency Range:	150KHz to 30MHz
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto

4.1.1 POWER LINE CONDUCTED EMISSION Limits

		Sec. 1	
	Limit (Standard	
FREQUENCY (MHz)	QP	AVG	Standard
0.15 -0.5	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	56.00	46.00	FCC
5.0 -30.0	60.00	50.00	FCC

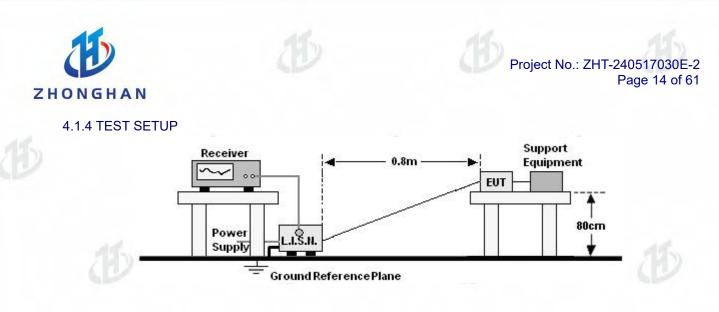
Note:

(1) *Decreases with the logarithm of the frequency.

4.1.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- 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 at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

4.1.3 DEVIATION FROM TEST STANDARD No deviation



4.1.5 EUT OPERATING CONDITIONS

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

4.1.6 Test Result

Not applicable in this Test Report, because the Wireless headset don't work while charging





4.2 RADIATED EMISSION MEASUREMENT

				and the second se			
Test Requirement:	FCC Part15 C Section 15.209						
Test Method:	ANSI C63.10:2013						
Test Frequency Range:	9kHz to 25GHz						
Test site:	Measurement Distance: 3m						
Receiver setup:	Frequency	Detector	RBW	VBW	Value		
	9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak		
	150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak		
	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak		
		Peak	1MHz	3MHz	Peak		
	Above 1GHz	Peak	1MHz	10Hz	Average		

4.2.1 RADIATED EMISSION LIMITS

Frequencies	Field Strength	Measurement Distance		
(MHz)	(MHz) (micorvolts/meter)			
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

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

Notes:

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

(2) The tighter limit applies at the band edges.

(3) Emission level (dBuV/m)=20log Emission level (uV/m).



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4.2.2 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 25GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-chamber test. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8m; above 1GHz, the height was 1.5m, the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item -EUT Test Photos.
- g. For the radiated emission test above 1GHz:

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response.

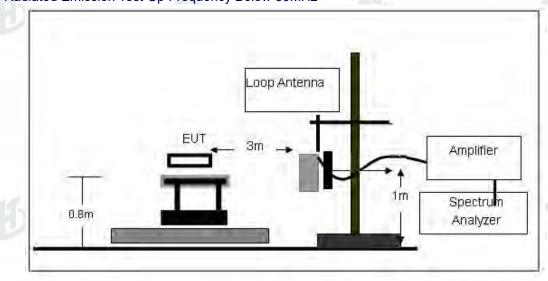
The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane. Note:

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

4.2.3 DEVIATION FROM TEST STANDARD No deviation

4.2.4 TEST SETUP

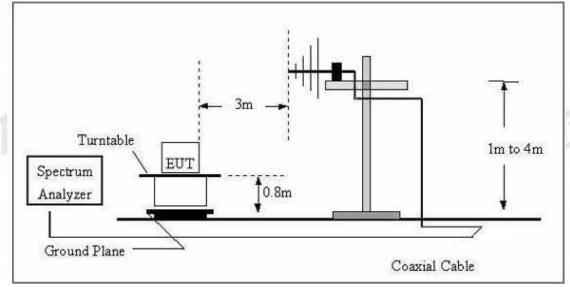
(A) Radiated Emission Test-Up Frequency Below 30MHz

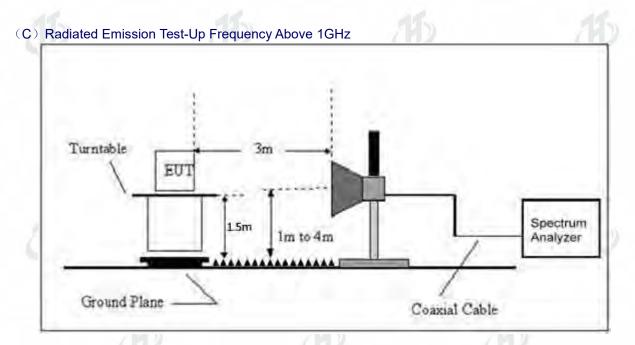




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(B) Radiated Emission Test-Up Frequency 30MHz~1GHz





4.2.5 EUT OPERATING CONDITIONS

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

4.2.6 TEST RESULTS (Between 9KHz - 30 MHz)

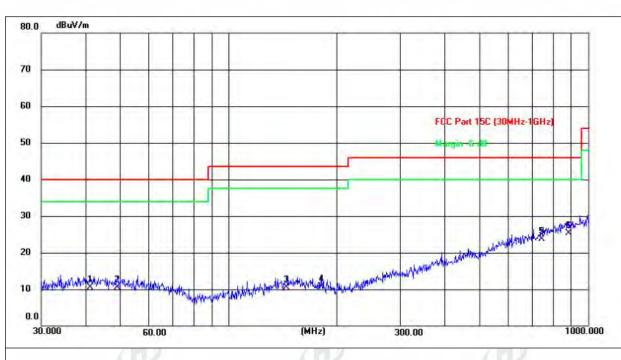
The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 15.31(o) & RSS-Gen 6.13, the test result no need to reported.





Between 30MHz - 1GHz(Earphone Left)

Temperature:	25.6 ℃	Relative Humidity:	47%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	DC 3.7V		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	41.1320	18.92	-8.36	10.56	40.00	-29.44	QP	200	0	P	
2	48.8427	19.26	-8.77	10.49	40.00	-29.51	QP	200	360	P	
3	144.8417	19.92	-9.48	10.44	43.50	-33.06	QP	200	269	P	
4	180.6487	21.58	-10.97	10.61	43.50	-32.89	QP	200	345	Р	
5	742.2586	23.06	0.74	23.80	46.00	-22.20	QP	200	59	P	
6 *	884.5027	22.35	2.96	25.31	46.00	-20.69	QP	200	166	P	

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Temperature:

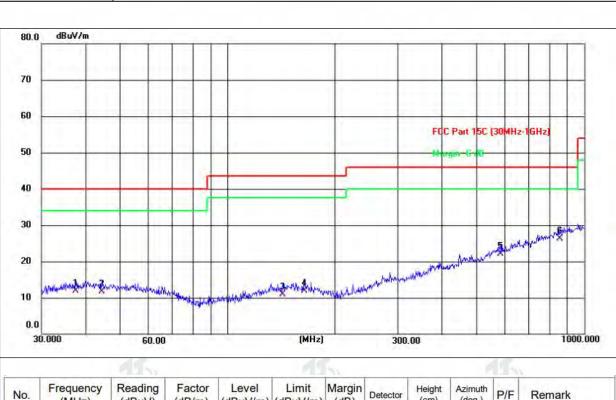
Test Voltage:

DC 3.7V

Pressure:

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0.5.0%		1
25.6 ℃	Relative Humidity:	47%
101kPa	Polarization:	Vertical

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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	37.4164	20.56	-8.67	11.89	40.00	-28.11	QP	100	360	P	
2	44.2751	20.17	-8.52	11.65	40.00	-28.35	QP	100	0	P	
3	142.3243	20.48	-9.61	10.87	43.50	-32.63	QP	100	244	P	
4	163.7550	21.87	-10.00	11.87	43.50	-31.63	QP	100	178	P	
5	582.7423	23.81	-1.80	22.01	46.00	-23.99	QP	100	49	P	
6 *	854.0247	23.81	2.50	26.31	46.00	-19.69	QP	100	313	P	

Remarks:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor

2. The emission levels of other frequencies are very lower than the limit and not show in test report.



1GHz~25GHz

Polar	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector
(H/V)	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Туре
				Low Cha	nnel:2402N	/Hz			
V	4804.00	58.84	30.55	5.77	24.66	58.72	74	-15.28	Pk
V	4804.00	44.36	30.55	5.77	24.66	44.24	54	-9.76	AV
V	7206.00	57.86	30.33	6.32	24.55	58.4	74	-15.6	Pk
V	7206.00	42.04	30.33	6.32	24.55	42.58	54	-11.42	AV
V	9608.00	57.65	30.55	5.77	24.66	57.53	74	-16.47	Pk
V	9608.00	41.45	30.55	5.77	24.66	41.33	54	-12.67	AV
V	12010.00	56.55	30.33	6.32	24.55	57.09	74	-16.91	Pk
V	12010.00	44.65	30.33	6.32	24.55	45.19	54	-8.81	AV
Н	4804.00	58.15	30.55	5.77	24.66	58.03	74	-15.97	Pk
Н	4804.00	41.55	30.55	5.77	24.66	41.43	54	-12.57	AV
Н	7206.00	55.15	30.33	6.32	24.55	55.69	74	-18.31	Pk
Н	7206.00	44.62	30.33	6.32	24.55	45.16	54	-8.84	AV
Н	9608.00	56.45	30.55	5.77	24.66	56.33	74	-17.67	Pk
Н	9608.00	41.26	30.55	5.77	24.66	41.14	54	-12.86	AV
Н	12010.00	58.45	30.33	6.32	24.55	58.99	74	-15.01	Pk
Н	12010.00	41.24	30.33	6.32	24.55	41.78	54	-12.22	AV
Polar	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	
Polar (H/V)	Frequency (MHz)						Limits (dBuV/m)	Margin (dB)	Detector Type
		Reading	fier (dB)	Loss (dB)	Factor	Level (dBuV/m)		-	
		Reading	fier (dB)	Loss (dB)	Factor (dB/m)	Level (dBuV/m)		-	
(H/V)	(MHz)	Reading (dBuV)	fier (dB) M	Loss (dB) 1iddle Ch	Factor (dB/m) annel:2440	Level (dBuV/m) MHz	(dBuV/m)	(dB)	Туре
(H/V) V	(MHz) 4880.00	Reading (dBuV) 59.54	fier (dB) 30.55	Loss (dB) 1iddle Ch 5.77	Factor (dB/m) annel:2440 24.66	Level (dBuV/m) MHz 59.42	(dBuV/m) 74	(dB)	Type Pk
(H/V) V V	(MHz) 4880.00 4880.00	Reading (dBuV) 59.54 41.64	fier (dB) <u>30.55</u> 30.55	Loss (dB) /iddle Ch 5.77 5.77 6.32	Factor (dB/m) annel:2440 24.66 24.66	Level (dBuV/m) MHz 59.42 41.52	(dBuV/m) 74 54	(dB) -14.58 -12.48	Type Pk AV Pk
(H/V) V V V	(MHz) 4880.00 4880.00 7320.00 7320.00	Reading (dBuV) 59.54 41.64 55.45 43.45	fier (dB) 30.55 30.55 30.33 30.33	Loss (dB) 1iddle Ch 5.77 5.77 6.32 6.32	Factor (dB/m) annel:2440 24.66 24.55 24.55 24.55	Level (dBuV/m) (dBuV/	(dBuV/m) 74 54 74	(dB) -14.58 -12.48 -18.01 -10.01	Type Pk AV Pk AV
(H/V) V V V	(MHz) 4880.00 4880.00 7320.00	Reading (dBuV) 59.54 41.64 55.45	fier (dB) 30.55 30.55 30.33	Loss (dB) /iddle Ch 5.77 5.77 6.32	Factor (dB/m) annel:2440 24.66 24.66 24.55	Level (dBuV/m) (dBuV/	(dBuV/m) 74 54 74 54 54	(dB) -14.58 -12.48 -18.01	TypePkAVPkAVPkAVPk
(H/V) V V V V V	(MHz) 4880.00 4880.00 7320.00 7320.00 9760.00 9760.00	Reading (dBuV) 59.54 41.64 55.45 43.45 56.15 44.52	fier (dB) 30.55 30.55 30.33 30.33 30.33 30.55 30.55	Loss (dB) 1iddle Ch 5.77 5.77 6.32 6.32 5.77 5.77	Factor (dB/m) annel:2440 24.66 24.66 24.55 24.55 24.66 24.66	Level (dBuV/m) (dBuV/	(dBuV/m) 74 54 74 54 74 54 74 54	(dB) -14.58 -12.48 -18.01 -10.01 -17.97 -9.6	TypePkAVPkAVPkAVAV
(H/V) V V V V V V V	(MHz) 4880.00 4880.00 7320.00 7320.00 9760.00 9760.00 12200.00	Reading (dBuV) 59.54 41.64 55.45 43.45 56.15 44.52 58.72	fier (dB) 30.55 30.55 30.33 30.33 30.55 30.55 30.55 30.33	Loss (dB) fiddle Ch 5.77 6.32 6.32 6.32 5.77 5.77 6.32	Factor (dB/m) annel:2440 24.66 24.66 24.55 24.55 24.66 24.66 24.55	Level (dBuV/m) (dBuV/	(dBuV/m) 74 54 74 54 74 54 74 54 74	(dB) -14.58 -12.48 -18.01 -10.01 -17.97 -9.6 -14.74	Type Pk AV Pk AV Pk AV AV Pk
(H/V) V V V V V V V V	(MHz) 4880.00 4880.00 7320.00 7320.00 9760.00 9760.00 12200.00 12200.00	Reading (dBuV) 59.54 41.64 55.45 43.45 56.15 44.52 58.72 42.52	fier (dB) 30.55 30.55 30.33 30.33 30.55 30.55 30.33 30.33	Loss (dB) 1iddle Ch 5.77 5.77 6.32 6.32 5.77 5.77 6.32 6.32 6.32	Factor (dB/m) annel:2440 24.66 24.55 24.55 24.55 24.66 24.66 24.55 24.55	Level (dBuV/m) (dBuV/	(dBuV/m) 74 54 74 54 74 54 74 54	(dB) -14.58 -12.48 -18.01 -10.01 -17.97 -9.6 -14.74 -10.94	TypePkAVPkAVPkAVAV
(H/V) V V V V V V V V V V V	(MHz) 4880.00 4880.00 7320.00 7320.00 9760.00 9760.00 12200.00 12200.00 4880.00	Reading (dBuV) 59.54 41.64 55.45 43.45 56.15 44.52 58.72 42.52 59.45	fier (dB) 30.55 30.55 30.33 30.33 30.55 30.55 30.33 30.33 30.33 30.33	Loss (dB) 1iddle Ch 5.77 6.32 6.32 5.77 5.77 6.32 6.32 6.32 5.77	Factor (dB/m) annel:2440 24.66 24.66 24.55 24.66 24.66 24.55 24.55 24.55 24.55 24.55 24.66	Level (dBuV/m) (dBuV/	(dBuV/m) 74 54 74 54 74 54 74 54 74 54 74	(dB) -14.58 -12.48 -18.01 -10.01 -17.97 -9.6 -14.74 -10.94 -14.67	TypePkAVPkAVPkAVPkAVPkAVPkAVPk
(H/V) V V V V V V V V H H	(MHz) 4880.00 4880.00 7320.00 7320.00 9760.00 9760.00 12200.00 12200.00 4880.00	Reading (dBuV) 59.54 41.64 55.45 43.45 56.15 44.52 58.72 42.52 59.45 43.92	fier (dB) 30.55 30.55 30.33 30.33 30.55 30.55 30.33 30.33 30.33 30.55 30.55	Loss (dB) fiddle Ch 5.77 6.32 6.32 5.77 6.32 6.32 6.32 6.32 5.77 5.77	Factor (dB/m) annel:2440 24.66 24.66 24.55 24.66 24.66 24.55 24.55 24.55 24.66 24.66 24.66	Level (dBuV/m) (dBuV/	(dBuV/m) 74 54 74 54 74 54 74 54 74 54 74 54	(dB) -14.58 -12.48 -18.01 -10.01 -17.97 -9.6 -14.74 -10.94 -14.67 -10.2	TypePkAVPkAVPkAVPkAVPkAVPkAVAV
(H/V) V V V V V V V H H H	(MHz) 4880.00 4880.00 7320.00 7320.00 9760.00 9760.00 12200.00 12200.00 4880.00 4880.00 7320.00	Reading (dBuV) 59.54 41.64 55.45 43.45 56.15 44.52 58.72 42.52 59.45 43.92 58.45	fier (dB) 30.55 30.55 30.33 30.33 30.55 30.55 30.33 30.55 30.55 30.55 30.55 30.55	Loss (dB) 1/iddle Ch 5.77 6.32 6.32 5.77 6.32 6.32 6.32 5.77 5.77 5.77 5.77 6.32	Factor (dB/m) annel:2440 24.66 24.55 24.55 24.66 24.66 24.55 24.55 24.66 24.66 24.66 24.66 24.66	Level (dBuV/m) MHz 59.42 41.52 55.99 43.99 56.03 43.99 56.03 44.4 59.26 43.06 59.33 43.8 58.99	(dBuV/m) 74 54 74 54 74 54 74 54 74 54 74 54 74 54 74	(dB) -14.58 -12.48 -18.01 -10.01 -17.97 -9.6 -14.74 -10.94 -14.67 -10.2 -15.01	TypePkAVPkAVPkAVPkAVPkAVPkAVPkAVPkAVPkAVPkAV
(H/V) V V V V V V V H H H H	(MHz) 4880.00 4880.00 7320.00 7320.00 9760.00 9760.00 12200.00 12200.00 4880.00 4880.00 7320.00	Reading (dBuV) 59.54 41.64 55.45 43.45 56.15 44.52 58.72 42.52 59.45 43.92 58.45 42.52	fier (dB) 30.55 30.55 30.33 30.33 30.33 30.55 30.33 30.33 30.55 30.55 30.55 30.55 30.33 30.33	Loss (dB) 1iddle Ch 5.77 6.32 6.32 5.77 6.32 6.32 6.32 5.77 5.77 6.32 6.32 5.77 6.32 6.32	Factor (dB/m) annel:2440 24.66 24.55 24.55 24.66 24.66 24.55 24.55 24.66 24.66 24.66 24.55 24.55 24.55	Level (dBuV/m) (dBuV/	(dBuV/m) 74 54 74 54 74 54 74 54 74 54 74 54 74 54 74 54	(dB) -14.58 -12.48 -18.01 -10.01 -17.97 -9.6 -14.74 -10.94 -14.67 -10.2 -15.01 -10.94	TypePkAVPkAVPkAVPkAVPkAVPkAVPkAVPkAVAV
(H/V) V V V V V V H H H H	(MHz) 4880.00 4880.00 7320.00 9760.00 9760.00 12200.00 12200.00 4880.00 4880.00 7320.00 7320.00 9760.00	Reading (dBuV) 59.54 41.64 55.45 43.45 56.15 44.52 58.72 42.52 59.45 43.92 58.45 42.52 59.51	fier (dB) 30.55 30.55 30.33 30.33 30.55 30.55 30.33 30.55 30.55 30.33 30.55 30.33 30.55	Loss (dB) 1iddle Ch 5.77 6.32 6.32 5.77 6.32 6.32 5.77 6.32 6.32 6.32 6.32 5.77	Factor (dB/m) annel:2440 24.66 24.66 24.55 24.55 24.66 24.55 24.55 24.66 24.55 24.66 24.55 24.55 24.66	Level (dBuV/m) (dBuV/	(dBuV/m) 74 54 74 54 74 54 74 54 74 54 74 54 74 54 74 54 74	(dB) -14.58 -12.48 -18.01 -10.01 -17.97 -9.6 -14.74 -10.94 -14.67 -10.2 -15.01 -10.94 -14.61	TypePkAVPkAVPkAVPkAVPkAVPkAVPkAVPkAVPkAVPkAVPkAVPkAVPk
(H/V) V V V V V V V H H H	(MHz) 4880.00 4880.00 7320.00 7320.00 9760.00 9760.00 12200.00 12200.00 4880.00 4880.00 7320.00	Reading (dBuV) 59.54 41.64 55.45 43.45 56.15 44.52 58.72 42.52 59.45 43.92 58.45 42.52	fier (dB) 30.55 30.55 30.33 30.33 30.33 30.55 30.33 30.33 30.55 30.55 30.55 30.55 30.33 30.33	Loss (dB) 1iddle Ch 5.77 6.32 6.32 5.77 6.32 6.32 6.32 5.77 5.77 6.32 6.32 5.77 6.32 6.32	Factor (dB/m) annel:2440 24.66 24.55 24.55 24.66 24.66 24.55 24.55 24.66 24.66 24.66 24.55 24.55 24.55	Level (dBuV/m) (dBuV/	(dBuV/m) 74 54 74 54 74 54 74 54 74 54 74 54 74 54 74 54	(dB) -14.58 -12.48 -18.01 -10.01 -17.97 -9.6 -14.74 -10.94 -14.67 -10.2 -15.01 -10.94	Pk AV Pk AV Pk AV Pk AV Pk AV Pk AV





Polar	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector
(H/V)	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Туре
			I	- ligh Cha	nnel:2480M	1Hz			
V	4960.00	58.14	30.55	5.77	24.66	58.02	74	-15.98	Pk
V	4960.00	41.34	30.55	5.77	24.66	41.22	54	-12.78	AV
V	7440.00	56.54	30.33	6.32	24.55	57.08	74	-16.92	Pk
V	7440.00	41.91	30.33	6.32	24.55	42.45	54	-11.55	AV
V	9920.00	56.43	30.55	5.77	24.66	56.31	74	-17.69	Pk
V	9920.00	41.95	30.55	5.77	24.66	41.83	54	-12.17	AV
V	12400.00	57.36	30.33	6.32	24.55	57.9	74	-16.1	Pk
V	12400.00	41.45	30.33	6.32	24.55	41.99	54	-12.01	AV
Н	4960.00	55.86	30.55	5.77	24.66	55.74	74	-18.26	Pk
Н	4960.00	41.29	30.55	5.77	24.66	41.17	54	-12.83	AV
Н	7440.00	59.82	30.33	6.32	24.55	60.36	74	-13.64	Pk
Н	7440.00	43.66	30.33	6.32	24.55	44.2	54	-9.8	AV
Н	9920.00	57.82	30.55	5.77	24.66	57.7	74	-16.3	Pk
Н	9920.00	41.51	30.55	5.77	24.66	41.39	54	-12.61	AV
Н	12400.00	56.66	30.33	6.32	24.55	57.2	74	-16.8	Pk
Н	12400.00	41.56	30.33	6.32	24.55	42.1	54	-11.9	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss - Pre-amplifier,

Margin= Emission Level - Limit

2. If peak below the average limit, the average emission was no test.

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

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5.RADIATED BAND EMISSION MEASUREMENT

5.1 TEST REQUIREMENT:									
Test Requirement:	FCC Part15 C	FCC Part15 C Section 15.209 and 15.205							
Test Method:	ANSI C63.10:	ANSI C63.10: 2013							
Test Frequency Range:	All of the restrict bands were tested, only the worst band's (2310MHz to 2500MHz) data was showed.								
Test site:	Measurement	Distance: 3m							
Receiver setup:	Frequency	Detector	RBW	VBW	Value				
	Above	Peak	1MHz	3MHz	Peak				
	1GHz	Average	1MHz	3MHz	Average				

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

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

Notes:

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

5.2 TEST PROCEDURE

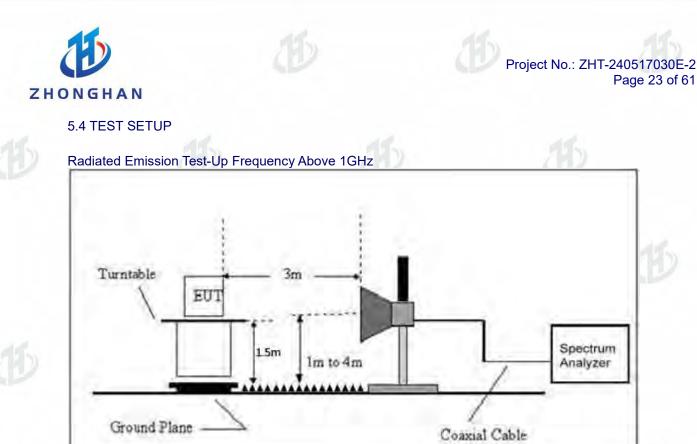
Above 1GHz test procedure as below:

- a. 1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel,the Highest channel
 - Note:

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

5.3 DEVIATION FROM TEST STANDARD No deviation





5.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



5.6 TEST RESULT

de la compañía de la	_							40			
	Polar	Frequenc	Meter	Pre-	Cable	Antenna	Emission	Limit	Margi	Detec	
	(H/V)	У	Reading	amplifier	Loss	Factor	level	(dBuV	n	tor	Resu
	(11/2)	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	/m)	(dB)	Туре	
				Low	Channe	I: 2402MHz	7				
	Н	2390.00	61.33	30.22	4.85	23.98	59.94	74	-14.06	PK	PASS
	Н	2390.00	47.83	30.22	4.85	23.98	46.44	54	-7.56	AV	PASS
	H D	2400.00	59.52	30.22	4.85	23.98	58.13	74	-15.87	PK	PASS
	H	2400.00	46.37	30.22	4.85	23.98	44.98	54	-9.02	AV	PASS
	V	2390.00	62.72	30.22	4.85	23.98	61.33	74	-12.67	PK	PASS
	V	2390.00	46.92	30.22	4.85	23.98	45.53	54	-8.47	AV	PASS
	V	2400.00	61.55	30.22	4.85	23.98	60.16	74	-13.84	PK	PASS
GFSK	V	2400.00	46.74	30.22	4.85	23.98	45.35	54	-8.65	AV	PASS
Gron			33.	High	h Channe	el: 2480MH	z	1813			
	Н	2483.50	59.48	30.22	4.85	23.98	58.09	74	-15.91	PK	PASS
	Н	2483.50	47.54	30.22	4.85	23.98	46.15	54	-7.85	AV	PASS
	Н	2500.00	61.54	30.22	4.85	23.98	60.15	74	-13.85	PK	PASS
	Н	2500.00	46.37	30.22	4.85	23.98	44.98	54	-9.02	AV	PASS
	V	2483.50	62.14	30.22	4.85	23.98	60.75	74	-13.25	PK	PASS
	V	2483.50	47.85	30.22	4.85	23.98	46.46	54	-7.54	AV	PASS
	V	2500.00	62.56	30.22	4.85	23.98	61.17	74	-12.83	PK	PASS
	V	2500.00	48.47	30.22	4.85	23.98	47.08	54	-6.92	AV	PASS

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier, Margin= Emission Level - Limit



6.POWER SPECTRAL DENSITY TEST

6 12	
Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	KDB558074 D0115.247 Meas Guidance v05r02

6.1 APPLIED PROCEDURES / LIMIT

	FCC Part15 (15.247) , Subpart C							
Section	Test Item	Limit	Frequency Range (MHz)	Result				
15.247	Power Spectral Density	8dBm/3kHz	2400-2483.5	PASS				

6.2 TEST PROCEDURE

- 1. Set analyzer center frequency to DTS channel center frequency.
- 2. Set the span to 1.5 times the DTS bandwidth.
- 3. Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- 4. Set the VBW \ge 3 x RBW.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level within the RBW.
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

6.3 DEVIATION FROM STANDARD

No deviation. 6.4 TEST SETUP

EUT	SPECTRUM
	ANALYZER

6.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.

6.6 TEST RESULTS

Please refer to the Appendix BLE

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7. CHANNEL BANDWIDTH

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	KDB558074 D0115.247 Meas Guidance v05r02

7.1 APPLIED PROCEDURES / LIMIT

	F	CC Part15 (15.247) , Sul	opart C	
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	>= 500KHz (6dB bandwidth)	2400-2483.5	PASS

7.2 TEST PROCEDURE

- 1. Set RBW = 30 kHz.
- 2. Set the video bandwidth (VBW) \ge 3 x RBW.
- 3. Detector = Peak.
- 4. Trace mode = max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.

7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP

EUT	SPECTRUM
	ANALYZER

7.5 EUT OPERATION CONDITIONS

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

7.6 TEST RESULTS

Please refer to the Appendix BLE

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8.PEAK OUTPUT POWER TEST

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)	
Test Method:	KDB558074 D0115.247 Meas Guidance v05r02	

8.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C					
Section Test Item		Limit	Frequency Range (MHz)	Result	
15.247(b)(3)	Peak Output Power	1 watt or 30dBm	2400-2483.5	PASS	

8.2 TEST PROCEDURE

- a. 1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
 - Set the spectrum analyzer: RBW = 2MHz. VBW =6MHz. Sweep = auto; Detector Function = Peak.
 Keep the EUT in transmitting at lowest, medium and highest channel individually. Record the max value.

8.3 DEVIATION FROM STANDARD

No deviation.

8.4 TEST SETUP



8.5 EUT OPERATION CONDITIONS

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

8.6 TEST RESULTS

Please refer to the Appendix BLE



9. CONDUCTED BAND EDGE AND SPURIOUS EMISSION

Test Requirement:	FCC Part15 C Section 15.247 (d)		
Test Method:	KDB558074 D0115.247 Meas Guidance v05r02		

9.1 APPLICABLE STANDARD

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

9.2 TEST PROCEDURE

Using the following spectrum analyzer setting:

A) Set the RBW = 100KHz.

- B) Set the VBW = 300KHz.
- C) Sweep time = auto couple.
- D) Detector function = peak.
- E) Trace mode = max hold.
- F) Allow trace to fully stabilize.

9.3 DEVIATION FROM STANDARD

No deviation.

9.4 TEST SETUP

EUT	SPECTRUM
	ANALYZER

9.5 EUT OPERATION CONDITIONS

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

9.6 TEST RESULTS Please refer to the Appendix BLE



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10.ANTENNA REQUIREMENT

Standard requirement:	FCC Part15 C Section 15.203 /247(b)(4)
15.203 requirement:	
be used with the device. The use of	gned to ensure that no antenna other than that furnished by the responsible party shal of a permanently attached antenna or of an antenna that uses a unique coupling to the er may design the unit so that a broken antenna can be replaced by the user, but the lectrical connector is prohibited.
15.247(b) (4) requirement:	
directional gains that do not exceed	it specified in paragraph (b) of this section is based on the use of antennas with 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of re used, the conducted output power from the intentional radiator shall be reduced
below the stated values in paragrap	hs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the eds 6 dBi.
below the stated values in paragrap directional gain of the antenna exce	
below the stated values in paragrap directional gain of the antenna exce EUT Antenna:	
below the stated values in paragrap directional gain of the antenna exce EUT Antenna:	eds 6 dBi.







11. TEST SETUP PHOTOS

Reference to the appendix I for details.

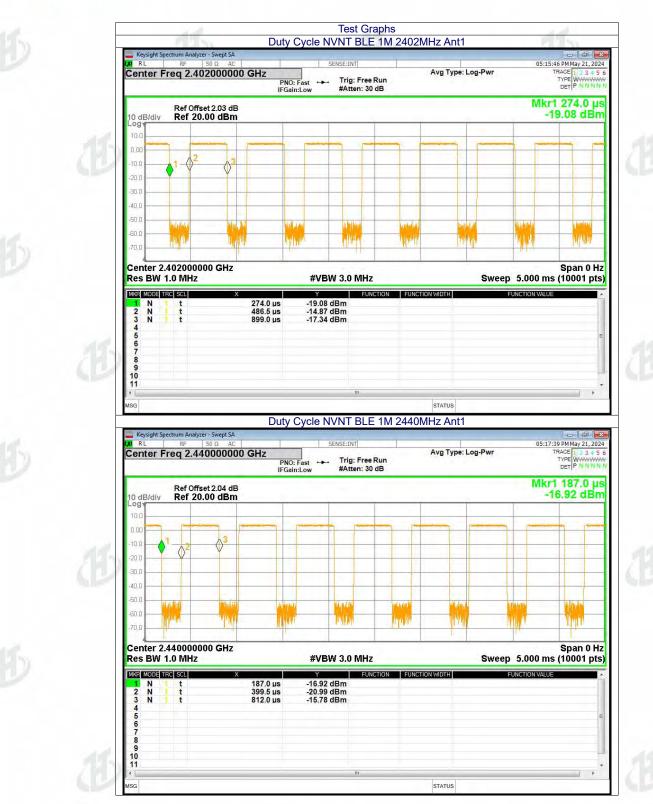
12. EUT CONSTRUCTIONAL DETAILS

Reference to the appendix II for details.

13. APPENDIX BLE

Duty Cycle					
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	BLE 1M	2402	Ant1	66	1.8
NVNT	BLE 1M	2440	Ant1	66	1.8
NVNT	BLE 1M	2480	Ant1	66	1.8
NVNT	BLE 2M	2402	Ant1	36.56	4.37
NVNT	BLE 2M	2440	Ant1	36.64	4.36
NVNT	BLE 2M	2480	Ant1	36.56	4.37







Keysight Sp RL

10 dB/div

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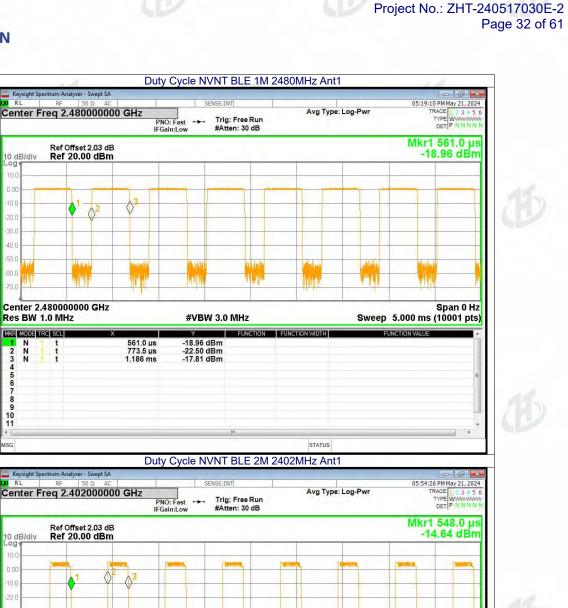
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30.0 40.0

NNN

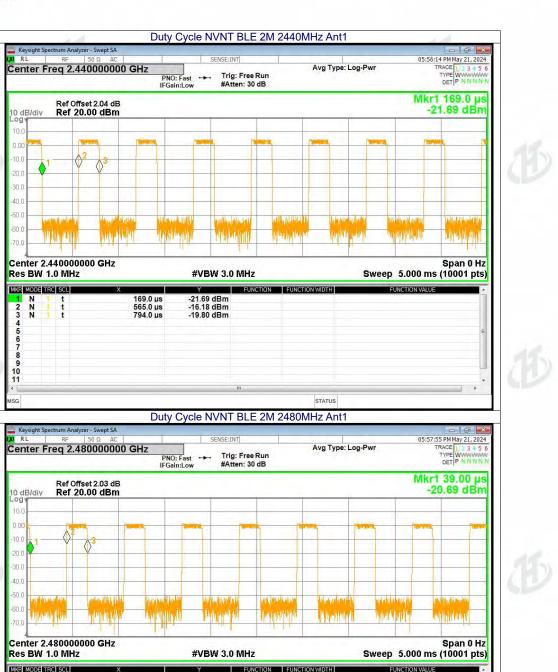
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SG



Key Ki RL Center Freq 2.402000000 GHz 10 dB/div 30. 40 dulation ALL ALL ALL Madalla di lant di d all de ALL NO 111 0 217 NT P N AN AN Center 2.402000000 GHz Res BW 1.0 MHz Span 0 Hz Sweep 5.000 ms (10001 pts) #VBW 3.0 MHz MKR MODE TRC SCL FUNCTION FUNCTION WIDTH 548.0 µs 944.5 µs 1.173 ms -14.64 dBm -10.62 dBm -13.98 dBm NNN 2 3 4 5 6 7 8 9 10 t STATUS





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STATUS

39.00 µs 435.5 µs 664.0 µs

NNN

t

-20.69 dBm -13.46 dBm -19.68 dBm







Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	5.36	30	Pass
NVNT	BLE 1M	2440	Ant1	4.24	30	Pass
NVNT	BLE 1M	2480	Ant1	1.3	30	Pass
NVNT	BLE 2M	2402	Ant1	5.62	30	Pass
NVNT	BLE 2M	2440	Ant1	4.61	30	Pass
NVNT	BLE 2M	2480	Ant1	1.66	30	Pass







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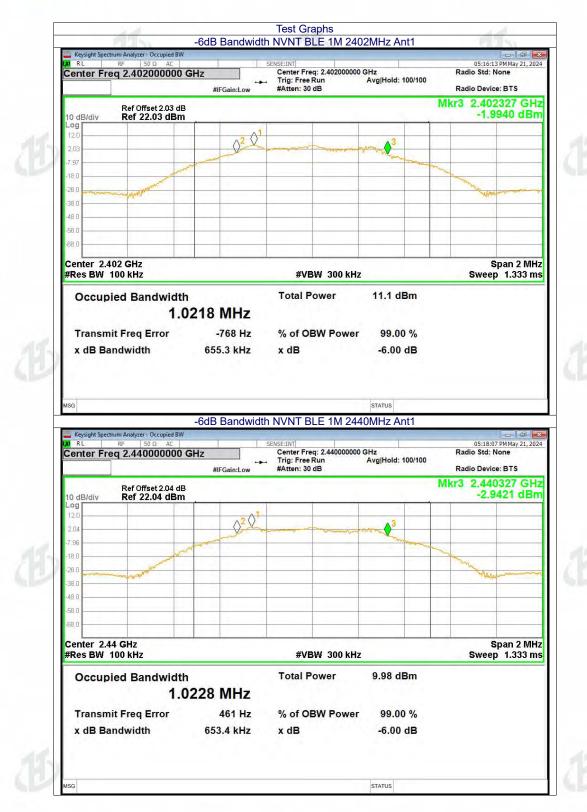


-6dB Bandwidth

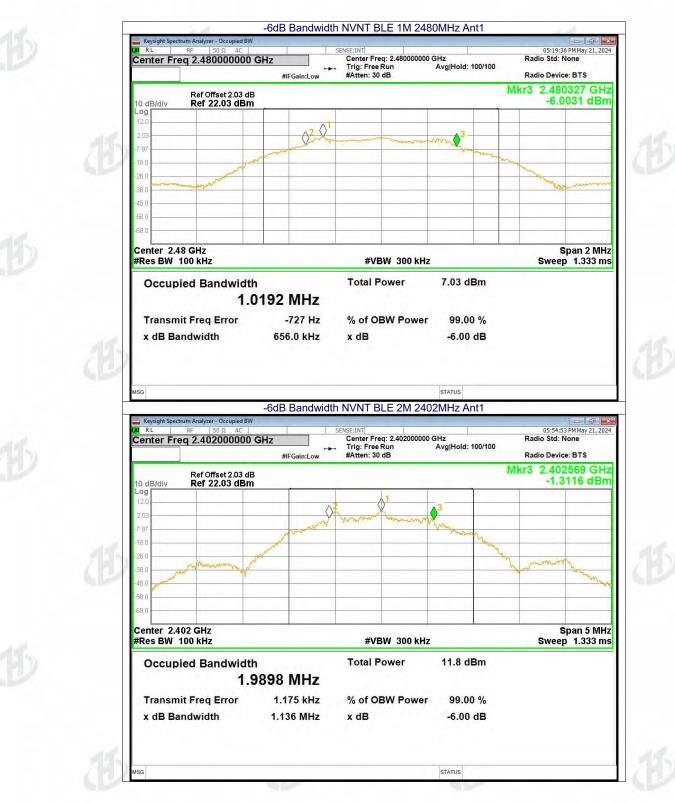
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.655	0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.653	0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.656	0.5	Pass
NVNT	BLE 2M	2402	Ant1	1.136	0.5	Pass
NVNT	BLE 2M	2440	Ant1	1.136	0.5	Pass
NVNT	BLE 2M	2480	Ant1	1.119	0.5	Pass

🖀 0755-27782934 🛛 🖂 admin@zht-lab.cn 🌑 🌐 http://www.zht-lab.cn

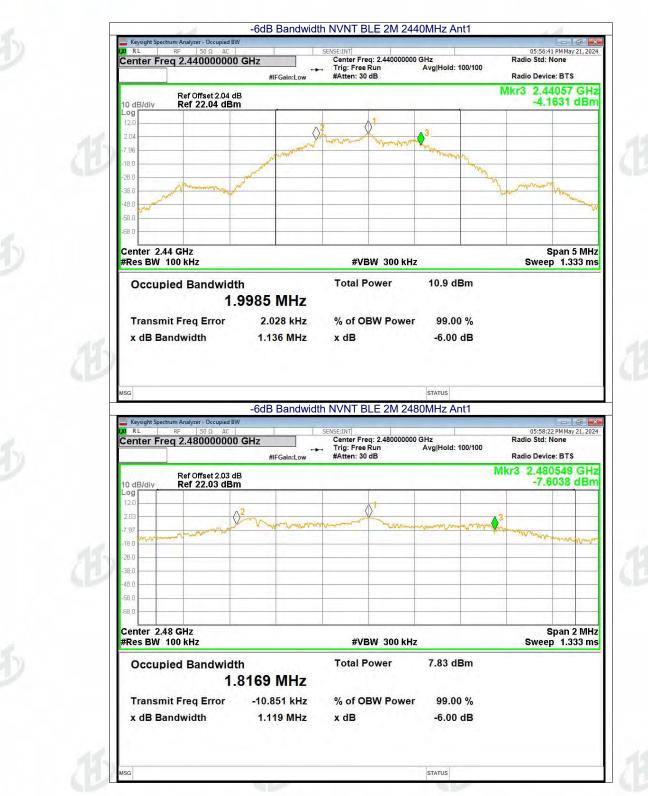
















Occupied Channel Bandwidth

6.1	Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
5	NVNT	BLE 1M	2402	Ant1	1.01
	NVNT	BLE 1M	2440	Ant1	1.014
	NVNT	BLE 1M	2480	Ant1	1.013
[NVNT	BLE 2M	2402	Ant1	1.974
[NVNT	BLE 2M	2440	Ant1	1.972
[NVNT	BLE 2M	2480	Ant1	2









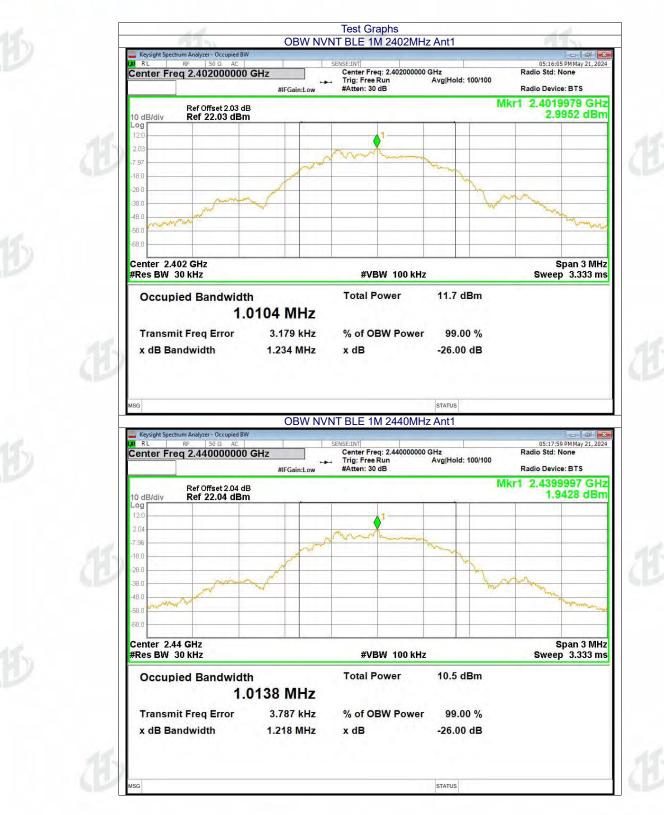




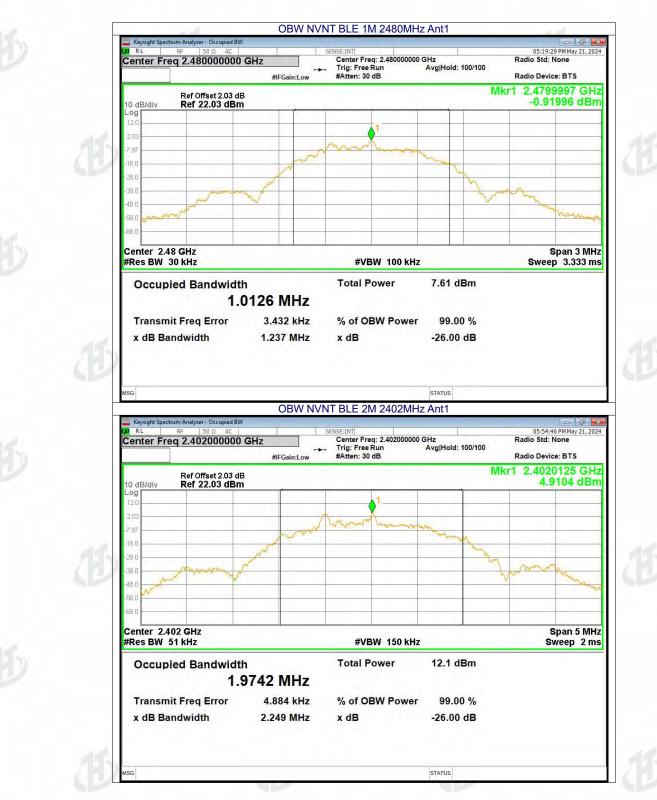
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Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	-10.57	8	Pass
NVNT	BLE 1M	2440	Ant1	-11.71	8	Pass
NVNT	BLE 1M	2480	Ant1	-14.59	8	Pass
NVNT	BLE 2M	2402	Ant1	-12.72	8	Pass
NVNT	BLE 2M	2440	Ant1	-13.82	8	Pass
NVNT	BLE 2M	2480	Ant1	-16.73	8	Pass





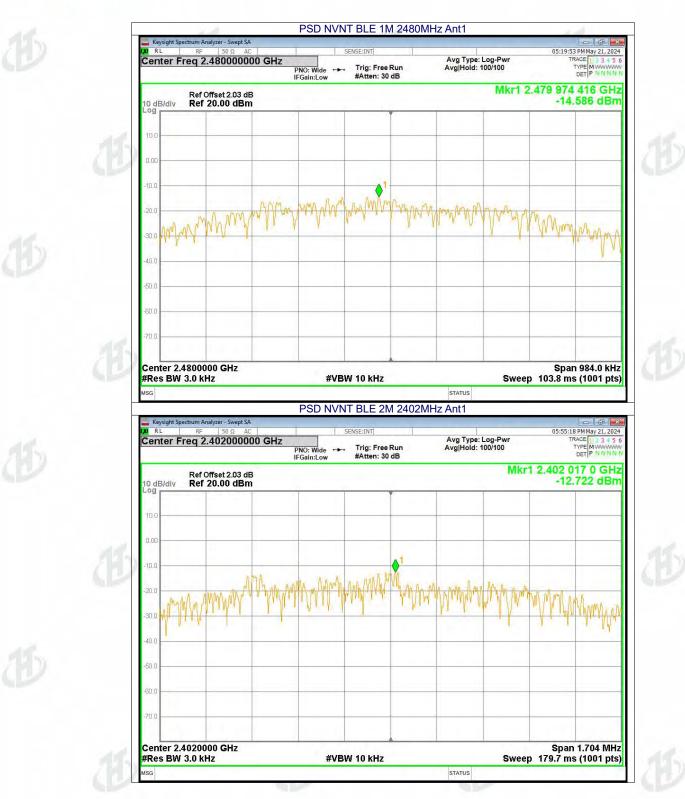
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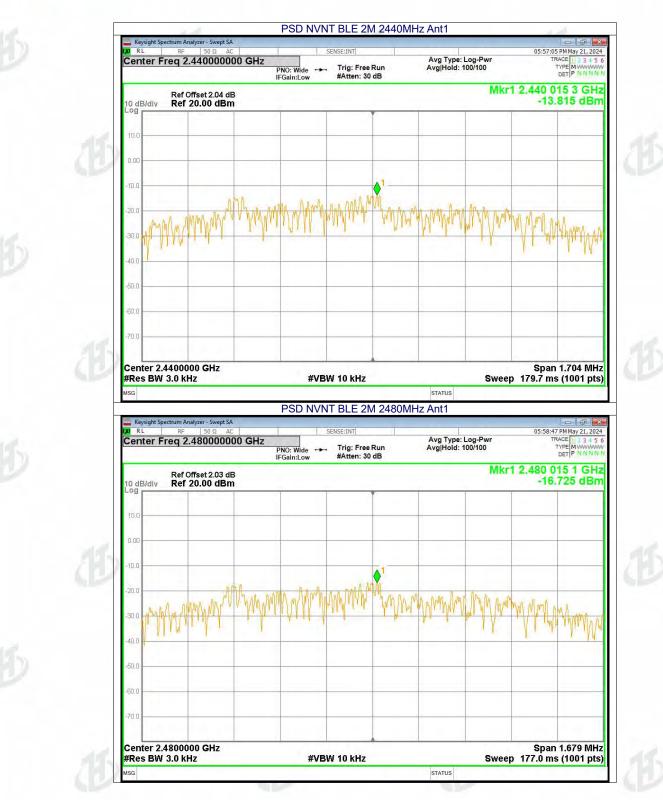


















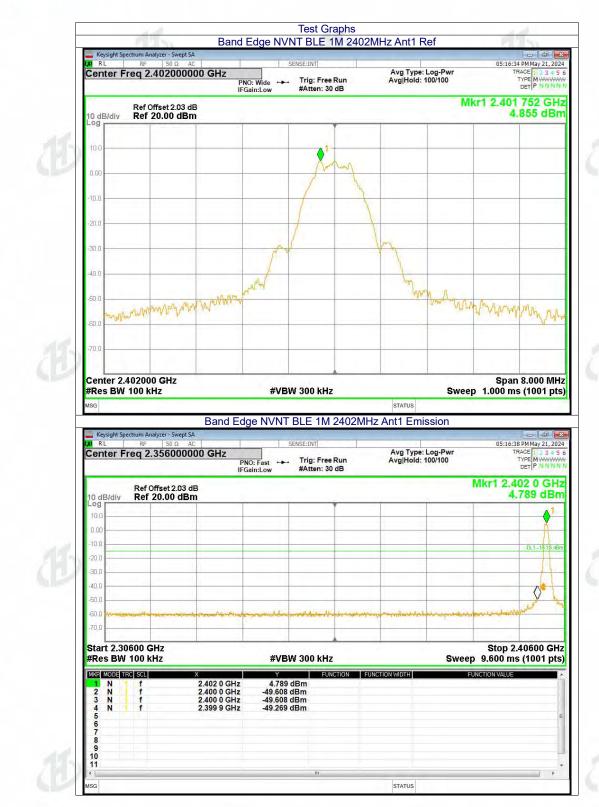
Band Edge Condition Mode

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-54.11	-20	Pass
NVNT	BLE 1M	2480	Ant1	-56.1	-20	Pass
NVNT	BLE 2M	2402	Ant1	-37.17	-20	Pass
NVNT	BLE 2M	2480	Ant1	-58.27	-20	Pass

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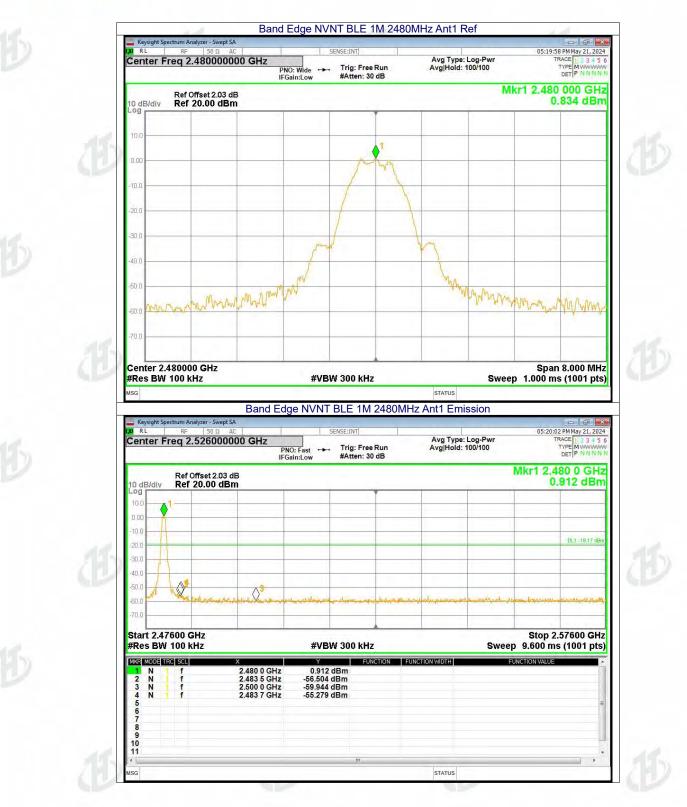




























Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-30.26	-20	Pass
NVNT	BLE 1M	2440	Ant1	-27.82	-20	Pass
NVNT	BLE 1M	2480	Ant1	-24.65	-20	Pass
NVNT	BLE 2M	2402	Ant1	-30.98	-20	Pass
NVNT	BLE 2M	2440	Ant1	-31.63	-20	Pass
NVNT	BLE 2M	2480	Ant1	-24.39	-20	Pass







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L <mark>XI</mark> RL	Spectrum Analyzer - Swept SA RF 50 Ω AC Freq 2.440000000 GF		Trig: Free Run #Atten: 20 dB	Avg Type: Log-Pwr Avg Hold: 100/100	05:18:29 PM May 21, 202 TRACE 1 2 3 4 5 TYPE M WWWW DET P N N N N
	Ref Offset 2.04 dB	IFGain:Low	#Atten: 20 0B	Mk	r1 2.439 743 5 GH: 3.698 dBn
10 dB/div Log	Ref 12.04 dBm				0.000 001
2.04		m		- American American	
-7.96	North	~		and here a	- March
-18.0	- Martin -				
-28:0 -	June -				m
20.0					
-38.0				4 6	
-48.0					
-58.0					
-68.0					
-78.0					
					0
	2.4400000 GHz N 100 kHz	#VBW	/ 300 kHz	Swe	Span 1.500 MH ep 1.000 ms (1001 pts
		70.104.27	1 OUU IUIE		cp 1.000 m3 (1001 pa
MSG	Тх	Spurious NVNT		STATUS	cp 1.000 m3 (1001 pr
Keysight	Spectrum Analyzer - Swept SA		BLE 1M 2440M		- 6
Keysight		SIE	BLE 1M 2440N	STATUS	05:18:59 PM May 21, 202 TRACE
Keysight	Spectrum Analyzer - Swept SA RF 50 Ω AC Freq 13.265000000 G	SHZ	BLE 1M 2440N	STATUS 1Hz Ant1 Emission Avg Type: Log-Pwr	05:18:59 PMMay 21, 20 TRACE 23.43 TYPE MWAY DET P NNNN DET P NNNN Mkr1 2.439 7 GH
Log	Spectrum Analyzer - Swept SA RF 50 Ω AC Freq 13.265000000 G Ref Offset 2.04 dB	SIE	BLE 1M 2440N	STATUS 1Hz Ant1 Emission Avg Type: Log-Pwr	05:18:59 PM May 21, 20 TRACE 23.4 TYPE M WWW DET P NNN Mkr1 2.439 7 GH
Keysight	Spectrum Analyzer - Swept SA RF 50 92 AC Freq 13.265000000 G Ref Offset 2.04 dB	SIE	BLE 1M 2440N	STATUS 1Hz Ant1 Emission Avg Type: Log-Pwr	05:18:59 PM May 21, 20 TRACE 2.3.5 TYPE May 21, 20 TYPE May 21, 20 TYPE May 21, 20 TRACE 2.3.5 DET P NINH Mkr1 2.439 7 GH 1,798 dBr
Keysight Keysight	Spectrum Analyzer - Swept SA RF 50 92 AC Freq 13.265000000 G Ref Offset 2.04 dB	SIE	BLE 1M 2440N	STATUS 1Hz Ant1 Emission Avg Type: Log-Pwr	05:18:59 PM May 21, 20 TRACE 2.3.4 TYPE MUNIT DET P NNNT Mkr1 2.439 7 GH 1,798 dBr
Keysight Kall Keysight Kall Keysight Kall Keysight Keysight	Spectrum Analyzer - Swept SA RF 50 92 AC Freq 13.265000000 G Ref Offset 2.04 dB	HZ PNO: Fast IFGain:Low	BLE 1M 2440N	STATUS 1Hz Ant1 Emission Avg Type: Log-Pwr	05:18:59 PM May 21, 20 TRACE 2.3.4 TYPE MUNIT DET P NNNT Mkr1 2.439 7 GH 1,798 dBr
Keysight Keysight	Spectrum Analyzer - Swept SA RF 50 92 AC Freq 13.265000000 G Ref Offset 2.04 dB	SIE	BLE 1M 2440N	STATUS 1Hz Ant1 Emission Avg Type: Log-Pwr	05:18:59 PM May 21, 20 TRACE 2.3.4 TYPE MUNIT DET P NNNT Mkr1 2.439 7 GH 1,798 dBr
Keysight XI RL Center 10 dB/div 10 dB/div 2.04 -7.96 -18.0 -28.0 -38.0 -68.0 -68.0	Spectrum Analyzer - Swept SA RF 50 92 AC Freq 13.265000000 G Ref Offset 2.04 dB	SHZ PNO: Fast IFGain:Low	BLE 1M 2440N	STATUS 1Hz Ant1 Emission Avg Type: Log-Pwr	05:18:59 PM lay 21, 20 TRACE 2.3 - 5 TYPE Multiple DET P NIMM Mkr1 2.439 7 GH 1,798 dBr
10 dB/db/ 2 04 -7.96 -18.0 -88.0 -68.0 -68.0 -78.0	Spectrum Analyzer - Swept SA RF 50 Ω AC Freq 13.265000000 G Ref Offset 2.04 dB Ref 12.04 dBm	SHZ PNO: Fast IFGain:Low	BLE 1M 2440N	STATUS 1Hz Ant1 Emission Avg Type: Log-Pwr	05:18:59 MMay 21, 20: TRACE 2.3.5 TYPE WHAT DET P NHM Mkr1 2.439 7 GH 1,798 dBr
Keysight 2 RL Center 10 dB/dli 10 dB/dli 2.04 7.96 -18.0 -28.0 -38.0 -48.0 -58.0 -68.0 10 7.78.0 -58.0 -58.0 -58.0 -68.0 10 -78.0 -58.0	Spectrum Analyzer - Swept SA RF 50 Ω AC Freq 13.265000000 G Ref Offset 2.04 dB Ref 12.04 dBm	SHZ PNO: Fast IFGain:Low ↓ ↓	BLE 1M 2440N	Avg Type: Log-Pwr Avg[Hold: 10/10	05:18:59 PMMay 21, 20 TRACE 23.45 TYPE MWWW DET P NNNN
Keysight 10 dB/dit 2.04 -7.96 -18.0 -28.0 -38.0 -48.0 -58.0 -68.0 -78.0 Start 30 #Res B0 1 N	Spectrum Analyzer - Swept SA RF 50 Q AC Freq 13.2650000000 G Ref Offset 2.04 dB Ref 12.04 dBm 10 MHz W 100 kHz FREE SEL	HZ PNO: Fast ↔ IFGain:Low #VBW	BLE 1M 2440N	STATUS	05:18:59 PM May 21, 20 TRACE 2, 2, 4 Type [M VAN DET P NNM Mkr1 2.439 7 GH 1.798 dBr DL1 -18:00 dB
Keysight Zi RL Center 10 dB/db 2.04 -7.96 -18.0 -28.0 -38.0 -88.0 -58.0 -58.0 -58.0 -78.0 Start 30 #Res B 10 MR 2 N 3 N 4 N	Spectrum Analyzer - Swept SA RF 50 Ω AC Freq 13.265000000 C Ref Offset 2.04 dB Ref 12.04 dBm 0 MHz 0 MHz 1 0 KHz 1 1 2.439 1 4.880 1 4.880 1 4.880 1 7.320	Flz St PNO: Fast → IFGain:Low → #VBW → A → B → B → B → B → B → B → B → B → B <td>BLE 1M 2440N</td> <td>STATUS</td> <td>05:18:59 PM May 21, 20 TRACE 23.4 TYPE WINH Mkr1 2.439 7 GH 1.798 dBr DEI P NNM Mkr1 2.439 6 GH 1.1620 6 DEI -1620 6 Stop 26.50 GH pep 2.530 s (30001 pt</td>	BLE 1M 2440N	STATUS	05:18:59 PM May 21, 20 TRACE 23.4 TYPE WINH Mkr1 2.439 7 GH 1.798 dBr DEI P NNM Mkr1 2.439 6 GH 1.1620 6 DEI -1620 6 Stop 26.50 GH pep 2.530 s (30001 pt
Keysight Keysight Keysight Center 10 dB/di 2.04 -7.96 -18.0 -28.0 -38.0 -48.0 -68.0 -78.0 Start 30 Kers B Mixer Mode 1 N 3 N	Spectrum Analyzer - Swept SA RF 50 Ω AC Freq 13.265000000 C Ref Offset 2.04 dB Ref 12.04 dBm 0 MHz 0 MHz 1 0 KHz 1 1 2.439 1 4.880 1 4.880 1 4.880 1 7.320	HZ PNO: Fast ↔ IFGain:Low #VBW 7 GHz 1.798 d 2 GHz -24.128 d 2 GHz -24.128 d	BLE 1M 2440N	STATUS	05:18:59 PMMay 21, 20 TRACE 3.3 4 5 TYPE MAN DET P MMM Mkr1 2.439 7 GH 1.798 dBr DL1-16:00:69 DL1-16:00:69 Stop 26,50 GH pep 2.530 s (30001 pts
Keysight Z RL Center 10 dB/db/ Log 2.04 -7.96 - -18.0 - -28.0 - -38.0 - -38.0 - -88.0 - -88.0 - -78.0 - Mrcgroup 1 N 3 -78.0 - -88.0 - -88.0 - -88.0 - -88.0 - -88.0 - -88.0 - -88.0 - -88.0 - -88.0 - -88.0 - -88.0 - -88.0 - -88.0 - -88.0 - -78.0 - -78.0 - -78.0 - -78.0 - -78.0 -	Spectrum Analyzer - Swept SA RF 50 Ω AC Freq 13.265000000 C Ref Offset 2.04 dB Ref 12.04 dBm 0 MHz 0 MHz 1 0 KHz 1 1 2.439 1 4.880 1 4.880 1 4.880 1 7.320	Flz St PNO: Fast → IFGain:Low → #VBW → A → B → B → B → B → B → B → B → B → B <td>BLE 1M 2440N</td> <td>STATUS</td> <td>05:18:59 PMMay 21, 20 TRACE 23, 45 TYPE MAN DET P NMM Mkr1 2.439 7 GH 1.798 dBr DL1 -16:00 49 DL1 -16:00 49 Stop 26, 50 GH pep 2.530 s (30001 pts)</td>	BLE 1M 2440N	STATUS	05:18:59 PMMay 21, 20 TRACE 23, 45 TYPE MAN DET P NMM Mkr1 2.439 7 GH 1.798 dBr DL1 -16:00 49 DL1 -16:00 49 Stop 26, 50 GH pep 2.530 s (30001 pts)



Keysight Spectrum Analyzer - Swi M RL RF 50 Ω	AC	SENSE(INT	Avg Type: Log-Pwr	05:20:07 PM May 21, 2 TRACE 1 2 3
Center Freq 2.48000	PNO: Wid IFGain:Lo	le ↔ Trig: Free Run w #Atten: 20 dB	Avg Hold: 100/100	
Ref Offset 2.0	13 dB			Mkr1 2.479 994 0 G 0.689 dE
2.03	- mm		Man want -	
-7.97	-		man an Maria	
-18.0				montal
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-38.0				
-48:0				
-58.0				
-68,0				
-78.0				
Center 2.4800000 GHz	2			Span 1.500 M
#Res BW 100 kHz		#VBW 300 kHz	S	weep 1.000 ms (1001 p
MSG			STATUS	
MSG	Tx. Spurious I	NVNT BLE 1M 24		
🤷 Keysight Spectrum Analyzer - Swi		NVNT BLE 1M 24	STATUS 80MHz Ant1 Emission	05-20-38 PM May 21-2
	ept SA AC 000000 GHz PNO: Fas	SENSE:INT	STATUS	05-20-38 PM May 21-2
Keysight Spectrum Analyzer-Sw XX RL RF 50 Ω Center Freq 13.2650	AC AC DOOOOO GHZ PNO: Fas IFGain:Lc	SENSE:INT	STATUS 80MHz Ant1 Emission Avg Type: Log-Pwi	05:20:38 PM May 21, 2 TRACE 1 3 4 TYPE M WWW DET P NM
Keysight Spectrum Analyzer - Switch RL RF 50 Ω Center Freq 13.2650 Ref Offset 2.0 Ref Offset 2.1	AC PNO: Fac IFGain:Lc 03 dB	SENSE:INT	STATUS 80MHz Ant1 Emission Avg Type: Log-Pwi	05-20-38 PM May 21-2
Keysight Spectrum Analyzer - Sw RL RF 50 Ω Center Freq 13.2650 Ref Offset 2.0	AC PNO: Fac IFGain:Lc 03 dB	SENSE:INT	STATUS 80MHz Ant1 Emission Avg Type: Log-Pwi	05:20:38 PM May 21, TRACE 3 3 4 TYPE M WWW DET P N M Mkr1 2,480 2 G
Keysight Spectrum Analyzer - Swa Keysight Spectrum Analyzer - Swa Keysight Spectrum Analyzer - Swa Center Freq 13.2650 Ref Offset 2.0 Cog 2.03 7.97	AC PNO: Fac IFGain:Lc 03 dB	SENSE:INT	STATUS 80MHz Ant1 Emission Avg Type: Log-Pwi	05:20:38 PM May 21, 2 TRACE 23 A TYPE MWW DET P NHP Mkr1 2.480 2 G -0.404 dE
Keysight Spectrum Analyzer - Siw Ki RL RF 50 Ω Center Freq 13.2650 Ref Offset 2.0 Ref Offset 2.0 Ref 12.03 G 2.03 1 1	AC PNO: Fac IFGain:Lc 03 dB	SENSE:INT	STATUS 80MHz Ant1 Emission Avg Type: Log-Pwi	05:20:38 PM May 21, TRACE 3 3 4 TYPE M WWW DET P N M Mkr1 2,480 2 G
Keysight Spectrum Analyzer - Swi Kill RL RF 50 Ω Center Freq 13.2650 Ref Offset 2.0 Ref Offset 2.0 Cog 1 12.03 g 1 2.03 1 1 1 1 -18.0 1 1 1 1 1	AC PNO: Fac IFGain:Lc 03 dB	SENSE:INT	STATUS 80MHz Ant1 Emission Avg Type: Log-Pwi	05:20:38 PM May 21, 2 TRACE 23 A TYPE MWW DET P NHP Mkr1 2.480 2 G -0.404 dE
Keysight Spectrum Analyzer - Swa Will RL RF 50 Ω Center Freq 13.2650 Ref Offset 2.6 Ref Offset 2.6 Ref 2.03 c 2.03 1 1 7.97 1 0 2 -8.0 -38.0 -48.0 -48.0	AC PNO: Fac IFGain:Lc 03 dB	SENSE:INT	STATUS 80MHz Ant1 Emission Avg Type: Log-Pwi	05:20:38 PM May 21, 2 TRACE 23 A TYPE MWW DET P NHP Mkr1 2.480 2 G -0.404 dE
Keysight Spectrum Analyzer - Swa Ref Offset 2.0 Cog 2.03 -7.97 -16.0 -38.0	AC PNO: Fac IFGain:Lc D3 dB	SENSEIINT	STATUS 80MHz Ant1 Emission Avg Type: Log-Pwi	05:20:38 PM May 21, 2 TRACE 23 A TYPE MWW DET P NHP Mkr1 2.480 2 G -0.404 dE
Keysight Spectrum Analyzer - Swa Ref Sto Ω Center Freq 13.2650 Ref Offset 2.4	AC PNO: Fac IFGain:Lc D3 dB	SENSEIINT	STATUS 80MHz Ant1 Emission Avg Type: Log-Pwr Avg Hold: 10/10	05:20:38 PM May 21, 2 TRACE 23 A TYPE MWW DET P NHP Mkr1 2.480 2 G -0.404 dE
Keysight Spectrum Analyzer - Sw M RL RF 50 Q Center Freq 13.2650 Ref Offset 2.0 Ref 2.03 C 10 dB/div Ref 12.03 C Ref 2.03 C Ref 2.03 C 2 03	AC PNO: Fac IFGain:Lc D3 dB	SENSEJINT	STATUS 80MHz Ant1 Emission Avg Type: Log-Pwr Avg Hold: 10/10	05:20:38 PM May 21, 2 TRACE 13 3 4 TYPE 1 MWW DET P NMM Mkr1 2.480 2 GI -0.404 dE
Keysight Spectrum Analyzer - Sw R R RF 50 02 Center Freq 13.2650 Ref Offset 2.0 Ref 2.03 c 10 dB/div Ref 12.03 c Ref 2.03 c 2 03 1 1 1 7.97 1 0 2 1 2 03 1 1 1 1 2 03 1 1 1 1 7.97 1 0 1 1 1 2 03 1 <th1< t<="" td=""><td>AC PNO: Fac IFGain:Lc D3 dB</td><td>SENSE:INT st ↔ Trig: Free Run #Atten: 20 dB</td><td>STATUS 80MHz Ant1 Emission Avg Type: Log-Pwr Avg Hold: 10/10</td><td>05:20:38 PM May 21, 2 TRACE 3 3 4 TRACE 3 4 TR</td></th1<>	AC PNO: Fac IFGain:Lc D3 dB	SENSE:INT st ↔ Trig: Free Run #Atten: 20 dB	STATUS 80MHz Ant1 Emission Avg Type: Log-Pwr Avg Hold: 10/10	05:20:38 PM May 21, 2 TRACE 3 3 4 TRACE 3 4 TR
Keysight Spectrum Analyzer - Sw W RL RF 50 Q Center Freq 13.2650 Ref Offset 2.0 Ref Offset 2.0 Ref Offset 2.0 10 dB/div Ref 12.03 d 1 1 1 1 2.03 1 <t< td=""><td>AC PNO: Fac PNO: PNO: PNO: PNO: PNO: PNO: PNO: PNO:</td><td>SENSE:INT st ↔ Trig: Free Run #Atten: 20 dB #Atten: 20 dB #Atten: 20 dB #Atten: 20 dB #Atten: 20 dB #UBW 300 kHz #UBW 300 kHz 20,404 dBm</td><td>STATUS 80MHz Ant1 Emission Avg Type: Log-Pwr Avg Hold: 10/10</td><td>05:20:38 PM May 21, 2 TRACE 13 3 4 TYPE 1 MWW DET P NMM Mkr1 2.480 2 GI -0.404 dE</td></t<>	AC PNO: Fac PNO: PNO: PNO: PNO: PNO: PNO: PNO: PNO:	SENSE:INT st ↔ Trig: Free Run #Atten: 20 dB #Atten: 20 dB #Atten: 20 dB #Atten: 20 dB #Atten: 20 dB #UBW 300 kHz #UBW 300 kHz 20,404 dBm	STATUS 80MHz Ant1 Emission Avg Type: Log-Pwr Avg Hold: 10/10	05:20:38 PM May 21, 2 TRACE 13 3 4 TYPE 1 MWW DET P NMM Mkr1 2.480 2 GI -0.404 dE
Keysight Spectrum Analyzer - Sw M RL RF 50 Q Center Freq 13.2650 Ref Offset 2.0 Ref Offset 2.0 Ref Offset 2.0 10 dB/div Ref 12.03 d Ref 0 Ref 0 Ref 0 203 1	AC AC PNO: Fac IF Gainst.c 3 dB 3 dB 3 dB 4 4 4 4 4 4 4 4 4 5 GHz 4 4 4 5 GHz 4 4 5 GHz 4 4 5 GHz 4 4 5 GHz 5 GH	SENSEJNT t → Trig: Free Run #Atten: 20 dB \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	STATUS 80MHz Ant1 Emission Avg Type: Log-Pwr Avg Hold: 10/10	05:20:38 PM May 21, 2 TRACE 3 3 4 TRACE 3 4 TR
Keysight Spectrum Analyzer - Sw Center Freq 13.2650 Ref Offset 2.0 10 dB/dlv Ref 12.03 d 203 1 7.97 1 260 3 38.0 4 56.0 4 56.0 4 78.0 5 Start 30 MHz #Res BW 100 kHz Mcc Model Frag Sci 1 1 1 1 2 1 1 3 1 1 4 1 1	AC AC PNO: Fas IFGain:LC PNO: Fas IFGAIN	SENSE:INT st ↔ Trig: Free Run #Atten: 20 dB \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	STATUS 80MHz Ant1 Emission Avg Type: Log-Pwr Avg Hold: 10/10	05:20:38 PM May 21, 2 TRACE 3 3 4 DET P MM DET P MM Mkr1 2.480 2 GI -0.404 dE 00.404 dE 01.1931 01.1931 01.1931 01.1931 01.1931 01.0001 p
Ref offset 2.0 Center Freq 13.2650 Ref offset 2.0 O dB/div Ref 12.03 d 2.03 1 7.97 1 .28.0 2 .38.0 4 .48.0 .48.0 .78.0 .48.0 .78.0 .48.0 .78.0 .48.0 .78.0 .48.0 .78.0 .48.0 .78.0 .48.0 .78.0 .48.0 .78.0 .48.0 .78.0 .48.0 .78.0 .48.0 .78.0 .48.0 .78.0 .48.0 .78.0 .48.0 .78.0 .48.0 .78.0 .48.0 .78.0 .48.0 .78.0 .48.0 .78.0 .78.0 .78.0 .78.0 .78.0 .78.0 .78.0 .79.0 .78.0 .79.0 .78.0 .79.0 <td>AC AC PNO: Fas IFGain:LC PNO: Fas IFGAIN</td> <td>SENSE:INT st ↔ Trig: Free Run #Atten: 20 dB #Atten: 20 dB #VBW 300 kHz ¥ EUNCTION 0.404 dBm 23.960 dBm 33.960 dBm 33.960 dBm</td> <td>STATUS 80MHz Ant1 Emission Avg Type: Log-Pwr Avg Hold: 10/10</td> <td>05:20:38 PM May 21, 2 TRACE 3 3 4 DET P MM DET P MM Mkr1 2.480 2 GI -0.404 dE 00.404 dE 01.1931 01.1931 01.1931 01.1931 01.1931 01.0001 p</td>	AC AC PNO: Fas IFGain:LC PNO: Fas IFGAIN	SENSE:INT st ↔ Trig: Free Run #Atten: 20 dB #Atten: 20 dB #VBW 300 kHz ¥ EUNCTION 0.404 dBm 23.960 dBm 33.960 dBm 33.960 dBm	STATUS 80MHz Ant1 Emission Avg Type: Log-Pwr Avg Hold: 10/10	05:20:38 PM May 21, 2 TRACE 3 3 4 DET P MM DET P MM Mkr1 2.480 2 GI -0.404 dE 00.404 dE 01.1931 01.1931 01.1931 01.1931 01.1931 01.0001 p
Keysight Spectrum Analyzer - Swa W RL RF 50 Q Center Freq 13.2650 Ref Offset 2.6 10 dB/div Ref 12.03 d 203	AC AC PNO: Fas IFGain:LC PNO: Fas IFGAIN	SENSE:INT st ↔ Trig: Free Run #Atten: 20 dB #Atten: 20 dB #VBW 300 kHz ¥ EUNCTION 0.404 dBm 23.960 dBm 33.960 dBm 33.960 dBm	STATUS 80MHz Ant1 Emission Avg Type: Log-Pwr Avg Hold: 10/10	05:20:38 PM May 21, 2 TRACE 3 3 4 DET P MM DET P MM Mkr1 2.480 2 GI -0.404 dE 00.404 dE 01.1931 01.1931 01.1931 01.1931 01.1931 01.0001 p
Keysight Spectrum Analyzer - Sw W RL RF 50 02 Center Freq 13.2650 Ref Offset 2.0 Ref Offset 2.0 Ref Offset 2.0 10 dB/div Ref 12.03 d -	AC AC PNO: Fas IFGain:LC PNO: Fas IFGAIN	SENSE:INT st ↔ Trig: Free Run #Atten: 20 dB #Atten: 20 dB #VBW 300 kHz ¥ EUNCTION 0.404 dBm 23.960 dBm 33.960 dBm 33.960 dBm	STATUS 80MHz Ant1 Emission Avg Type: Log-Pwr Avg Hold: 10/10	05:20:38 PM May 21, 2 TRACE 3 3 4 DET P MM DET P MM Mkr1 2.480 2 GI -0.404 dE 00.404 dE 01.1931 01.1931 01.1931 01.1931 01.1931 01.0001 p













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