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TEST REPORT

AM HATSU Product Trade mark Angry Miao

Model/Type reference **AM05** N/A **Serial Number**

Report Number : EED32O81791701

FCC ID : 2A3FY-AM05 Date of Issue : Dec. 15, 2022

Test Standards : 47 CFR Part 15 Subpart C

Test result **PASS**

Prepared for:

Angry Miao Technology Co., Limited 2/F, No.5 of Nanteng Street, Qi'ao Industrial Zone, Tangjiawan Town, Xiangzhou District, Zhuhai, China

Prepared by:

Centre Testing International Group Co., Ltd. Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China

> TEL: +86-755-3368 3668 FAX: +86-755-3368 3385

Compiled by:

Martin Lee

Martin Lee

Aaron Ma

Reviewed by:

Tom Chen

Date:

Dec. 15, 2022

Check No.: 2807111122

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2 Version

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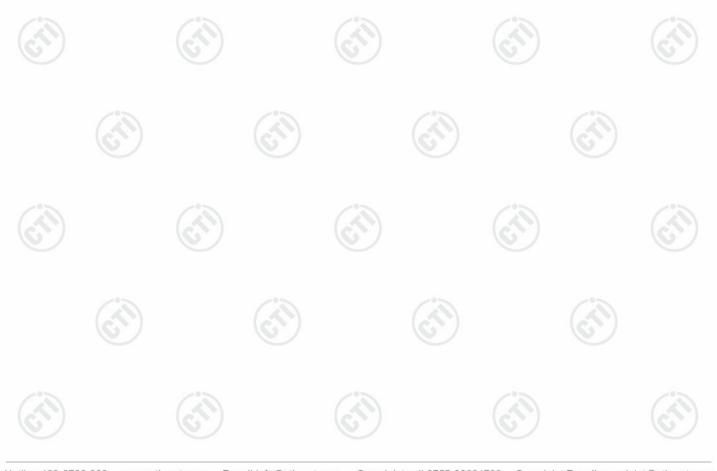
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3 Test Summary

Test Item	Test Requirement	Result
Antenna Requirement	47 CFR Part 15 Subpart C Section 15.203/15.247 (c)	PASS
AC Power Line Conducted Emission	47 CFR Part 15 Subpart C Section 15.207	PASS
DTS Bandwidth	47 CFR Part 15 Subpart C Section 15.247 (a)(2)	PASS
Maximum Conducted Output Power	47 CFR Part 15 Subpart C Section 15.247 (b)(3)	PASS
Maximum Power Spectral Density	47 CFR Part 15 Subpart C Section 15.247 (e)	PASS
Band Edge Measurements	47 CFR Part 15 Subpart C Section 15.247(d)	PASS
Conducted Spurious Emissions	47 CFR Part 15 Subpart C Section 15.247(d)	PASS
Radiated Spurious Emission & Restricted bands	47 CFR Part 15 Subpart C Section 15.205/15.209	PASS

Remark:

Company Name and Address shown on Report, the sample(s) and sample Information were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.







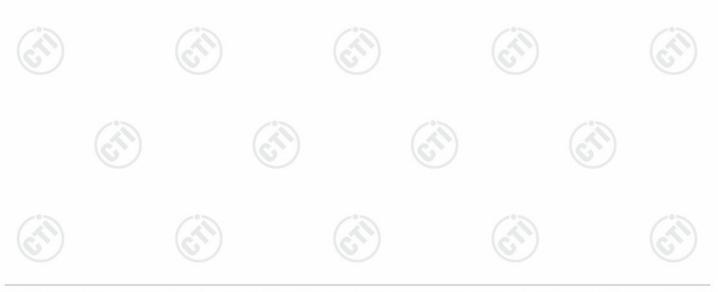
4 General Information

4.1 Client Information

Applicant:	Angry Miao Technology Co., Limited	
Address of Applicant:	2/F, No.5 of Nanteng Street, Qi'ao Industrial Zone, Tangjiawan Town,Xiangzhou District, Zhuhai,China	
Manufacturer:	Angry Miao Technology Co., Limited	(65)
Address of Manufacturer:	2/F, No.5 of Nanteng Street, Qi'ao Industrial Zone, Tangjiawan Town,Xiangzhou District, Zhuhai,China	

4.2 General Description of EUT

- (%)			7:0		100	
Product Name:	AM HATSU					
Model No.:	AM05					
Hardware Version:	P1					
Software Version:	AM_HATSU	J.N40.r1.00.23		- 0.5		
Bluetooth Version:	V5.0					
Trade mark:	Angry Miao	(0.)		(0.)		(0)
Device type:	Portable					
Operation Frequency:	2402MHz~2	480MHz	212975			
Modulation Type:	GFSK					
Transfer Rate:	⊠1Mbps [⊠ 2Mbps	(0,)		(0,)	
Number of Channel:	40					
Antenna Type:	PIFA Anteni	na				
Antenna Gain:	3.85dBi	(3)		(3)		
Power Supply:	USB port:	DC 5V		(6,7)		(67)
	Battery:	DC 3.8V				
Test Voltage:	DC 3.8V					
Sample Received Date:	Nov. 11, 202	22	· -		\cdot\(\frac{1}{2}\)	
Sample tested Date:	Nov. 11, 202	22 to Dec. 13,	2022			





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Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz
1	2404MHz	11	2424MHz	21	2444MHz	31	2464MHz
2	2406MHz	12	2426MHz	22	2446MHz	32	2466MHz
3	2408MHz	13	2428MHz	23	2448MHz	33	2468MHz
4	2410MHz	14	2430MHz	24	2450MHz	34	2470MHz
5	2412MHz	15	2432MHz	25	2452MHz	35	2472MHz
6	2414MHz	16	2434MHz	26	2454MHz	36	2474MHz
7	2416MHz	17	2436MHz	27	2456MHz	37	2476MHz
8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz
9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz

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 (CH0)	2402MHz
The middle channel (CH19)	2440MHz
The highest channel (CH39)	2480MHz

4.3 Test Configuration

EUT Test Software Settings:						
Software:	DTM.exe	(c	(17)	(27)		
EUT Power Grade:	Class2 (P selected)	ower level is built-in	set parameters and c	annot be changed and		
Use test software to transmitting of the E	set the lowest frequence EUT.	cy, the middle freque	ncy and the highest f	requency keep		
Test Mode	Modulation	Rate	Channel	Frequency(MHz)		
Mode a	GFSK	1Mbps	CH0	2402		
Mode b	GFSK	1Mbps	CH19	2440		
Mode c	GFSK	1Mbps	CH39	2480		
Mode d	GFSK	2Mbps	CH0	2402		
Mode e	GFSK	2Mbps	CH19	2440		
Mode f	GFSK	2Mbps	CH39	2480		



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4.4 Test Environment

	Operating Environment	:					
	Radiated Spurious Emi	ssions:					
	Temperature:	22~25.0 °C	(4)		(41)		(41)
1	Humidity:	50~55 % RH	0		(0)		6
	Atmospheric Pressure:	1010mbar					
	Conducted Emissions:						
	Temperature:	22~25.0 °C		(3)		(30)	
	Humidity:	50~55 % RH		(0,)		(0,)	
	Atmospheric Pressure:	1010mbar					
	RF Conducted:						
	Temperature:	22~25.0 °C	(3)		(3)		
r)	Humidity:	50~55 % RH	(6,2)		(6,2,2)		(6,7)
	Atmospheric Pressure:	1010mbar					

4.5 Description of Support Units

The EUT has been tested independently.

4.6 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385

No tests were sub-contracted. FCC Designation No.: CN1164









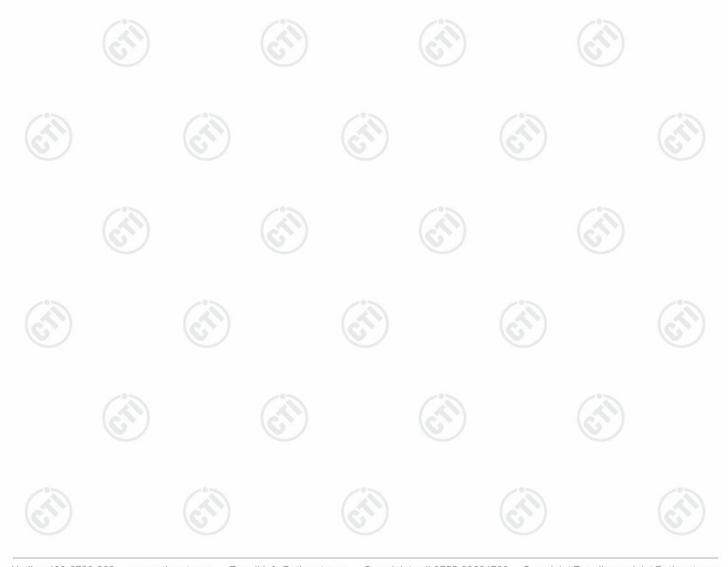






4.7 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty	
1	Radio Frequency	7.9 x 10 ⁻⁸	
2	DC newer conducted	0.46dB (30MHz-1GHz)	
2	RF power, conducted	0.55dB (1GHz-40GHz)	
	6	3.3dB (9kHz-30MHz)	
3	Dedicted Courieur amiceian test	4.3dB (30MHz-1GHz)	
3	Radiated Spurious emission test	4.5dB (1GHz-18GHz)	
(P)		3.4dB (18GHz-40GHz)	
97	Conduction emission	3.5dB (9kHz to 150kHz)	
4	Conduction emission	3.1dB (150kHz to 30MHz)	
5	Temperature test	0.64°C	
6	Humidity test	3.8%	
7	DC power voltages	0.026%	





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5 Equipment List

		RF te	est system		
Equipment	Manufacturer	Mode No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
Communication tset set	R&S	CMW500	107929	07-06-2022	07-05-2023
Signal Generator	R&S	SMBV100A	1407.6004K02- 262149-CV	09-09-2022	09-08-2023
Spectrum Analyzer	R&S	FSV40	101200	08-01-2022	07-31-2023
RF control unit(power unit)	MWRF-test	MW100-RFCB	MW220620CTI-42	07-06-2022	07-05-2023
high-low temperature test chamber	Dong Guang Qin Zhuo	LK-80GA	QZ20150611879	12-24-2021	12-23-2022
Temperature/ Humidity Indicator	biaozhi	HM10	1804186	06-16-2022	06-15-2023
BT&WI-FI Automatic test software	MWRF-test	MTS 8310	2.0.0.0		

Conducted disturbance Test							
Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)		
Receiver	R&S	ESCI	100435	05-04-2022	05-05-2023		
Temperature/ Humidity Indicator	Defu	TH128	1				
LISN	R&S	ENV216	100098	03-01-2022	02-28-2023		
Barometer	changchun	DYM3	1188	70			







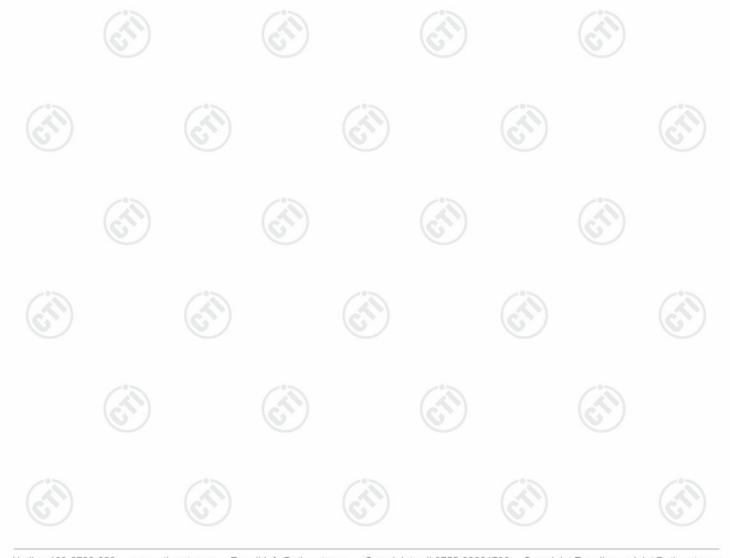






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	3M Semi-an	echoic Chamber (2)	- Radiated distu	rbance Test		
Equipment	Manufacturer	Model	Serial No.	Cal. Date	Due Date	
3M Chamber & Accessory Equipment	TDK	SAC-3		05-22-2022	05-21-2025	
Receiver	R&S	ESCI7	100938-003	09-28-2022	09-27-2023	
TRILOG Broadband Antenna	schwarzbeck	VULB 9163	9163-618	05-22-2022	05-21-2023	
Multi device Controller	maturo	NCD/070/10711112		/		
Horn Antenna	ETS-LINGREN	BBHA 9120D	9120D-1869	04-15-2021	04-14-2024	
Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-076	04-17-2021	04-16-2024	
Microwave Preamplifier	Agilent	8449B	3008A02425	06-20-2022	06-19-2023	





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		3M full-anechoic (Chamber			
Equipment	Manufacturer	Model No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)	
RSE Automatic test software	JS Tonscend	JS36-RSE	10166			
Receiver Keysight		N9038A	MY57290136	03-01-2022	02-28-2023	
Spectrum Analyzer	Keysight	N9020B	MY57111112	02-23-2022	02-22-2023	
Spectrum Analyzer	Keysight	N9030B	MY57140871	02-23-2022	02-22-2023	
TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	9163-1148	04-28-2021	04-27-2024	
Horn Antenna	Schwarzbeck	BBHA 9170	9170-832	04-15-2021	04-14-2024	
Horn Antenna	ETS-LINDGREN	3117	57407	07-04-2021	07-03-2024	
Preamplifier	EMCI	EMC184055SE	980597	04-20-2022	04-19-2023	
Preamplifier	EMCI	EMC001330	980563	04-01-2022	03-31-2023	
Preamplifier	JS Tonscend	980380	EMC051845SE	12-24-2021	12-23-2022	
Communication test set	R&S	CMW500	102898	12-24-2021	12-23-2022	
Temperature/ Humidity Indicator	biaozhi	GM1360	EE1186631	04-11-2022	04-10-2023	
Fully Anechoic Chamber	TDK	FAC-3	(C.)	01-09-2021	01-08-2024	
Cable line	Times	SFT205-NMSM-2.50M	394812-0001			
Cable line	Times	SFT205-NMSM-2.50M	394812-0002		CA	
Cable line	Times	SFT205-NMSM-2.50M	394812-0003	<u></u>	_ @	
Cable line	Times	SFT205-NMSM-2.50M	393495-0001			
Cable line	Times	EMC104-NMNM-1000	SN160710	- 6	<u> </u>	
Cable line	Times	SFT205-NMSM-3.00M	394813-0001	(6	<u> </u>	
Cable line	Times	SFT205-NMNM-1.50M	381964-0001			
Cable line	Times	SFT205-NMSM-7.00M	394815-0001		(À	
Cable line	Times	HF160-KMKM-3.00M	393493-0001	<u></u>		













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6 Test results and Measurement Data

6.1 Antenna Requirement

Standard requirement: 47 CFR Part 15C Section 15.203 /247(c)

15.203 requirement:

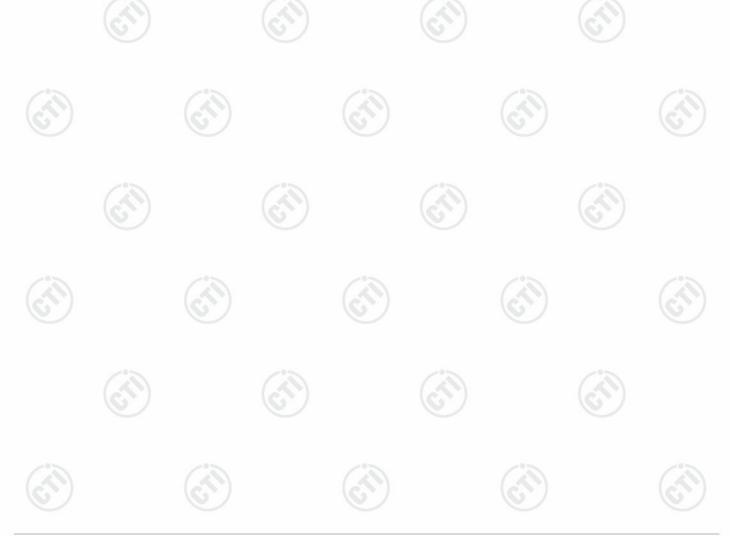
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna: Please see Internal photos

The antenna is PIFA Antenna. The best case gain of the antenna is 3.85dBi.





Test Results:

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6.2 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.2	207					
Test Method:	ANSI C63.10: 2013						
Test Frequency Range:	150kHz to 30MHz						
Receiver setup:	RBW=9 kHz, VBW=30 kHz, S	weep time=auto	-1.2				
	Frequency range (MHz)	Limit (d Quasi-peak	Average				
Limit:	0.15-0.5	66 to 56*	56 to 46*				
Entite.	0.5-5	56	46				
	5-30	60	50				
	* Decreases with the logarithn	n of the frequency.					
Test Setup:	Shielding Room EUT AC Mains LISN1	Ground Reference Plane	Test Receiver				
Test Procedure:	 The mains terminal disturt room. The EUT was connected to Impedance Stabilization Not impedance. The power call connected to a second LIS reference plane in the same measured. A multiple sock power cables to a single Lieux exceeded. The tabletop EUT was placed ground reference plane. An placed on the horizontal ground reference plane. The LISN unit under test and bonded mounted on top of the ground test and bonded mounted on top of the ground the EUT and associated ed. In order to find the maximule equipment and all of the in ANSI C63.10: 2013 on contract. 	o AC power source throetwork) which provides oles of all other units of SN 2, which was bondere way as the LISN 1 for et outlet strip was used ISN provided the rating code upon a non-metallic and for floor-standing around reference plane, the a vertical ground referom the vertical ground referom the vertical ground reference plane. The strong plane was bonded to the 1 was placed 0.8 m from the LISN 1 and the quipment was at least 0 are memission, the relative terface cables must be aducted measurement.	ough a LISN 1 (Line a 50Ω/50μH + 5Ω linear if the EUT were do to the ground or the unit being do to connect multiple of the LISN was not considered the table 0.8m above the rangement, the EUT was derence plane. The rear do reference plane. The e horizontal ground om the boundary of the plane for LISNs his distance was EUT. All other units of 0.8 m from the LISN 2. The positions of changed according to				
Exploratory Test Mode: Final Test Mode:	data type at the lowest, middle Through Pre-scan, find the mo	e, high channel. ode a is the worst case					
	Only the worst case is recorded	eu iii iiie report.	(-21)				

Pass



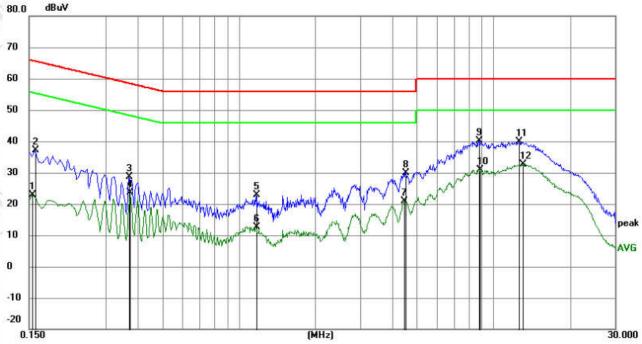




Measurement Data

Left hand keyboard:





No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1545	13.12	9.87	22.99	55.75	-32.76	AVG	
2	0.1590	27.19	9.87	37.06	65.52	-28.46	QP	
3	0.3704	18.73	10.00	28.73	58.49	-29.76	QP	
4	0.3750	13.62	9.99	23.61	48.39	-24.78	AVG	
5	1.1715	13.07	9.82	22.89	56.00	-33.11	QP	
6	1.1715	2.73	9.82	12.55	46.00	-33.45	AVG	
7	4.4699	11.15	9.78	20.93	46.00	-25.07	AVG	
8	4.5015	20.15	9.78	29.93	56.00	-26.07	QP	
9	8.8170	30.33	9.78	40.11	60.00	-19.89	QP	
10	8.8530	21.20	9.78	30.98	50.00	-19.02	AVG	
11	12.5385	30.11	9.86	39.97	60.00	-20.03	QP	
12 *	13.0245	22.64	9.87	32.51	50.00	-17.49	AVG	





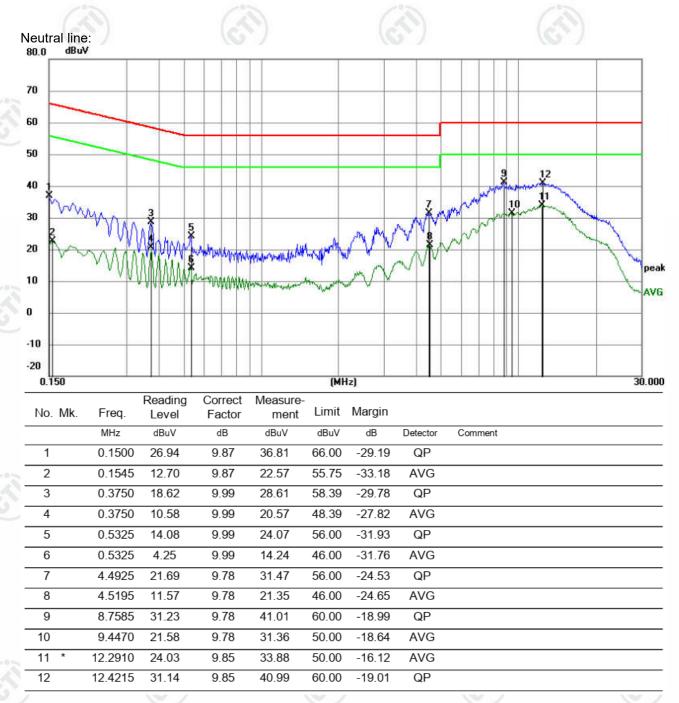












Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
- 3. If the Peak value under Average limit, the Average value is not recorded in the report.











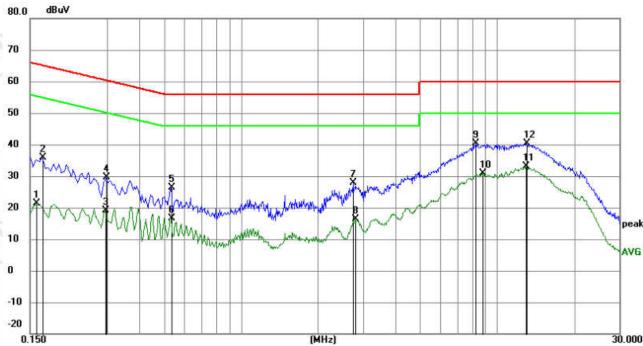






Right hand keyboard:





	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
			MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
-	1		0.1590	11.53	9.87	21.40	55.52	-34.12	AVG	
	2		0.1680	25.93	9.87	35.80	65.06	-29.26	QP	
	3		0.2940	9.00	10.06	19.06	50.41	-31.35	AVG	
	4		0.2985	19.51	10.07	29.58	60.28	-30.70	QP	
	5		0.5325	16.44	9.99	26.43	56.00	-29.57	QP	
Т	6		0.5325	6.71	9.99	16.70	46.00	-29.30	AVG	
Т	7		2.7420	18.04	9.79	27.83	56.00	-28.17	QP	
	8		2.7915	6.51	9.79	16.30	46.00	-29.70	AVG	
_	9		8.2635	30.51	9.79	40.30	60.00	-19.70	QP	
-	10		8.7585	21.12	9.78	30.90	50.00	-19.10	AVG	
	11	*	12.9705	23.29	9.87	33.16	50.00	-16.84	AVG	
	12		13.0155	30.53	9.87	40.40	60.00	-19.60	QP	













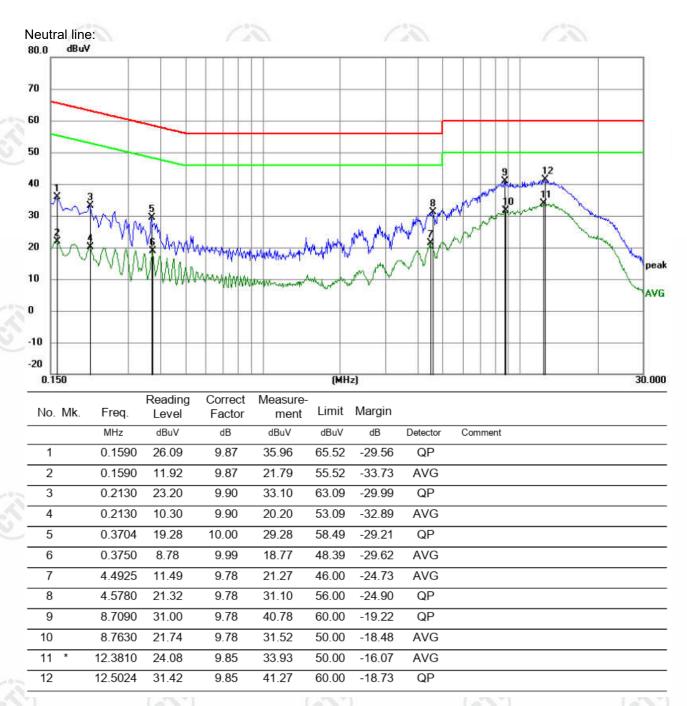












Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
- 3. If the Peak value under Average limit, the Average value is not recorded in the report.















6.3 Maximum Conducted Output Power

47 CFR Part 15C Section 15.247 (b)(3)						
ANSI C63.10 2013						
	(3)					
Control Congular Power Supply Power Table RF test System Instrument						
Remark: Offset=Cable loss+ attenuation factor.						
 a) Set the RBW ≥ DTS bandwidth. b) Set VBW ≥ 3 × RBW. c) Set span ≥ 3 x RBW d) Sweep time = auto couple. e) Detector = peak. f) Trace mode = max hold. g) Allow trace to fully stabilize. h) Use peak marker function to determine the peak amplitude level. 	(C)					
30dBm	-0-					
Refer to clause 5.3	(1)					
Refer to Appendix BLE						
	RF test System Instrument Remark: Offset=Cable loss+ attenuation factor. a) Set the RBW > DTS bandwidth. b) Set VBW > 3 × RBW. c) Set span > 3 x RBW d) Sweep time = auto couple. e) Detector = peak. f) Trace mode = max hold. g) Allow trace to fully stabilize. h) Use peak marker function to determine the peak amplitude level. 30dBm Refer to clause 5.3					

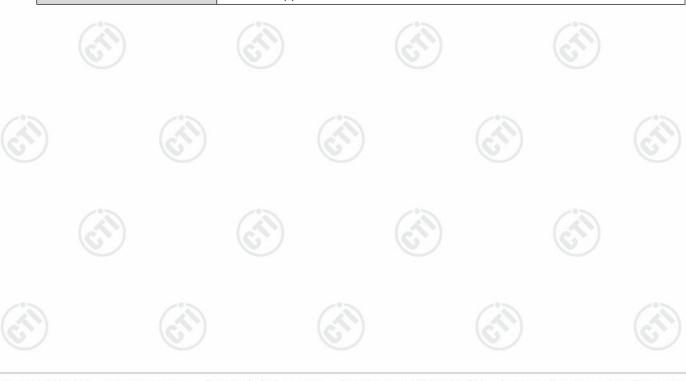




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6.4 DTS Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)						
Test Method:	ANSI C63.10 2013						
Test Setup:							
	Control Computer Control Computer Actenna portity Actenna portity Actenna portity Actenna portity Attenuator Temperature cabnet Table RF test System Instrument						
	Remark: Offset=Cable loss+ attenuation factor.						
Test Procedure:	 a) Set RBW = 100 kHz. b) Set the VBW ≥[3 × RBW]. c) Detector = peak. d) Trace mode = max hold. e) Sweep = auto couple. f) Allow the trace to stabilize. g) 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. 						
Limit:	≥ 500 kHz						
Test Mode:	Refer to clause 5.3						
Test Results:	Refer to Appendix BLE						

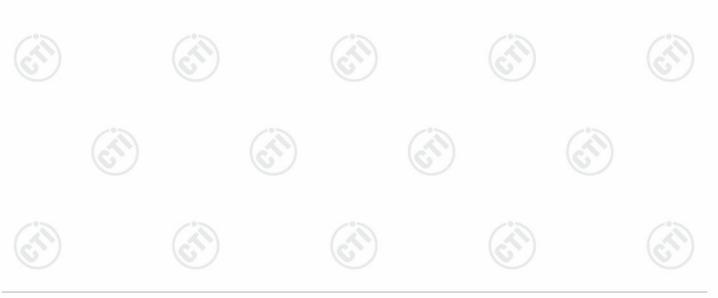






6.5 Maximum Power Spectral Density

Т	est Requirement:	47 CFR Part 15C Section 15.247 (e)
Т	est Method:	ANSI C63.10 2013
Т	est Setup:	
		Control Comprutes Power Power Power Power Attenuator Table RF test System Instrument Table
		Remark: Offset=Cable loss+ attenuation factor.
Т	est Procedure:	 a) Set analyzer center frequency to DTS channel center frequency. b) Set the span to 1.5 times the DTS bandwidth. c) Set the RBW to 3 kHz < RBW < 100 kHz. d) Set the VBW > [3 × RBW]. e) Detector = peak. f) Sweep time = auto couple. g) Trace mode = max hold. h) Allow trace to fully stabilize. i) Use the peak marker function to determine the maximum amplitude level within the RBW. j) If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.
	imit:	≤8.00dBm/3kHz
Т	est Mode:	Refer to clause 5.3
Т	est Results:	Refer to Appendix BLE
<u>'</u>	est results.	Neier to Appendix BLL

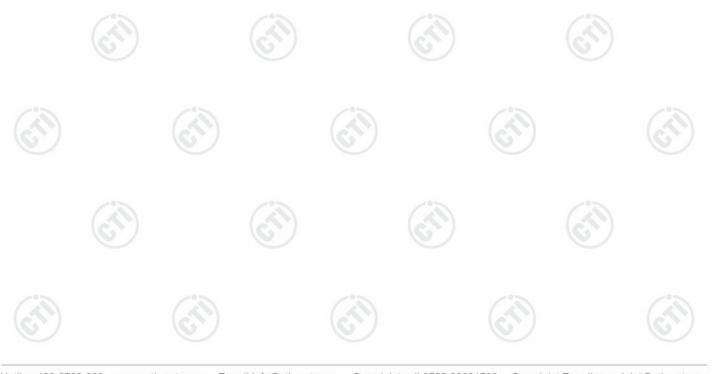






6.6 Band Edge measurements and Conducted Spurious Emission

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10 2013
Test Setup:	Control Control Control Control Power Poort Poor
	Remark: Offset=Cable loss+ attenuation factor.
Test Procedure:	 a) Set RBW =100KHz. b) Set VBW = 300KHz. c) Sweep time = auto couple. d) Detector = peak. e) Trace mode = max hold. f) Allow trace to fully stabilize. g) Use peak marker function to determine the peak amplitude level.
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test Mode:	Refer to clause 5.3
Test Results:	Refer to Appendix BLE

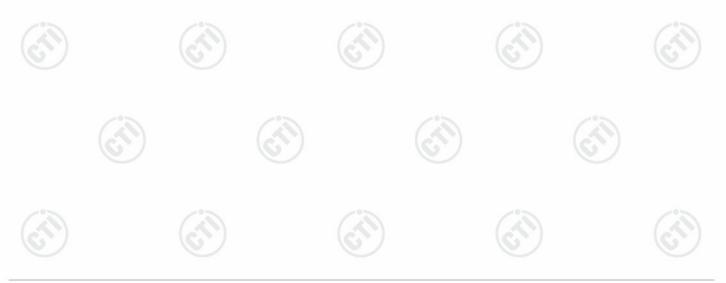






6.7 Radiated Spurious Emission & Restricted bands

	16.7		1800		16.7			
Test Requirement:	47 CFR Part 15C Secti	on 1	5.209 and 15	.205	(6)			
Test Method:	ANSI C63.10 2013							
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)							
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark			
	0.009MHz-0.090MH	z	Peak	10kHz	30kHz	Peak		
	0.009MHz-0.090MH	z	Average	10kHz	30kHz	Average		
	0.090MHz-0.110MH	z	Quasi-peak	10kHz	30kHz	Quasi-peak		
	0.110MHz-0.490MH	Z	Peak	10kHz	30kHz	Peak		
	0.110MHz-0.490MH	z	Average	10kHz	30kHz	Average		
	0.490MHz -30MHz		Quasi-peak	10kHz	30kHz	Quasi-peak		
	30MHz-1GHz		Quasi-peak	100 kH	z 300kHz	Quasi-peak		
	Above 1GHz		Peak	1MHz	3MHz	Peak		
			Peak	1MHz	10kHz	Average		
Limit:	Frequency		eld strength crovolt/meter)	Limit (dBuV/m)	Remark	Measuremer distance (m)		
	0.009MHz-0.490MHz	2400/F(kHz)		-	-/0>	300		
	0.490MHz-1.705MHz 240 1.705MHz-30MHz		1000/F(kHz)	-	(A)	30		
			30	-	-	30		
	30MHz-88MHz		100	40.0	Quasi-peak	3		
	88MHz-216MHz		150	43.5	Quasi-peak	3		
	216MHz-960MHz		200	46.0	Quasi-peak	3		
	960MHz-1GHz		500	54.0	Quasi-peak	3		
	Above 1GHz		500	54.0	Average	3		
	Note: 15.35(b), frequency emissions is limit applicable to the epeak emission level race	20d quip	IB above the i	maximum est. This p	permitted ave	erage emission		





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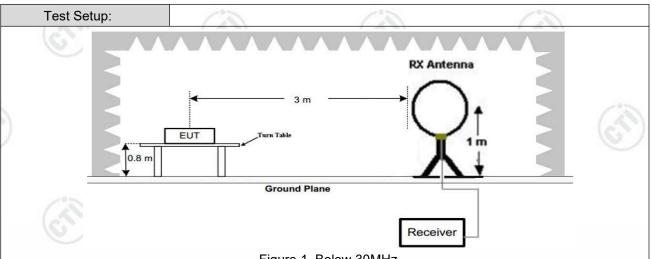
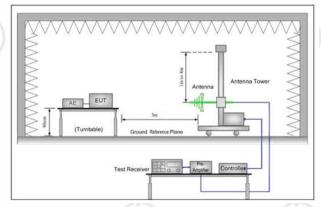


Figure 1. Below 30MHz



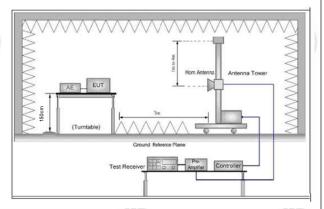


Figure 2. 30MHz to 1GHz

Figure 3. Above 1 GHz

Test Procedure:

- 1) Below 1G: The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest
 - 2) Above 1G: The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.

Note: For the radiated emission test above 1GHz:

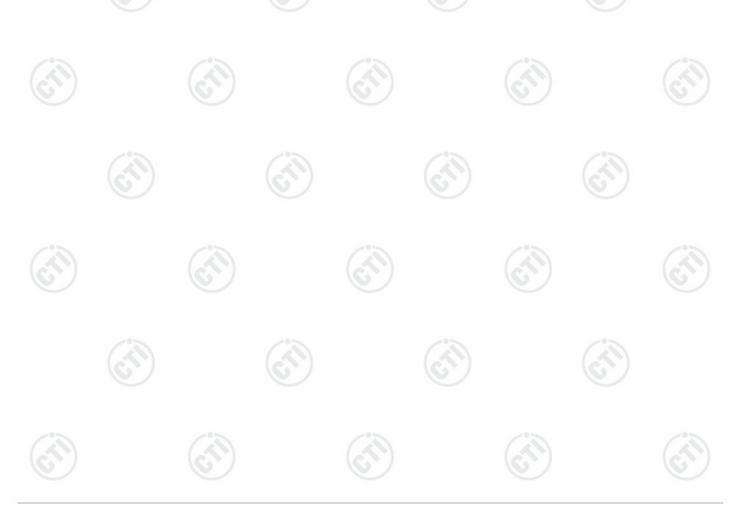
Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response.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

- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both





Test Results:	Pass
Test Mode:	Refer to clause 5.3
	i. Repeat above procedures until all frequencies measured was complete.
	h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
	g. Test the EUT in the lowest channel (2402MHz),the middle channel (2440MHz),the Highest channel (2480MHz)
	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.
	e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
	horizontal and vertical polarizations of the antenna are set to make the measurement.





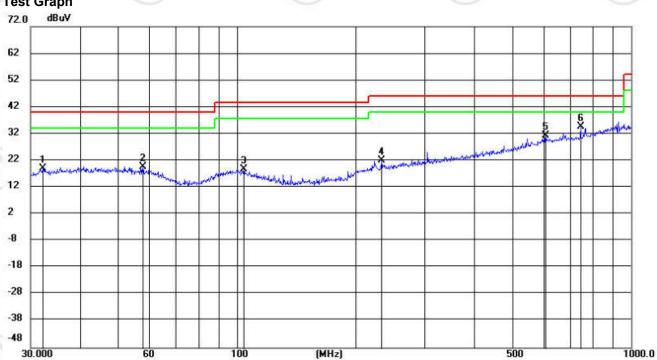
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Radiated Spurious Emission below 1GHz:

During the test, the Radiates Emission from 30MHz to 1GHz was performed in all modes, only the worst case mode a was recorded in the report.

Left hand keyboard:

Horizontal:



No	. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree	Comment
1		32.1794	6.00	13.15	19.15	40.00	-20.85	QP	100	169	
2		57.7962	5.86	13.73	19.59	40.00	-20.41	QP	100	4	
3		104.1701	5.29	13.46	18.75	43.50	-24.75	QP	200	230	
4		233.3486	7.14	14.93	22.07	46.00	-23.93	QP	100	150	
5		607.7867	7.30	24.08	31.38	46.00	-14.62	QP	200	356	
6	*	744.8660	9.16	25.48	34.64	46.00	-11.36	QP	100	4	

















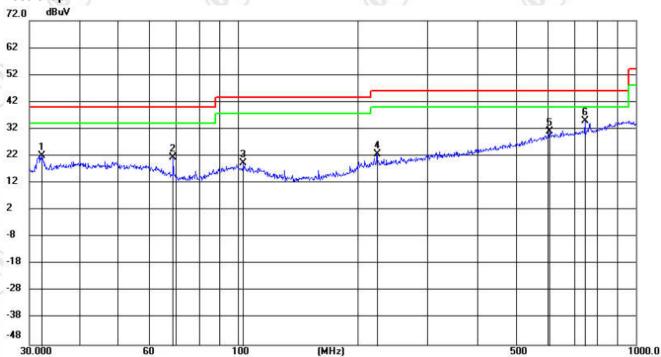






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Vertical:



No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		Antenna Height	Table Degree	
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree	Comment
1	32.1795	8.86	13.15	22.01	40.00	-17.99	QP	100	99	
2	68.8721	11.04	10.46	21.50	40.00	-18.50	QP	100	356	
3	103.4421	5.72	13.56	19.28	43.50	-24.22	QP	100	0	
4	223.7334	8.19	14.60	22.79	46.00	-23.21	QP	100	311	
5	607.7866	6.91	24.08	30.99	46.00	-15.01	QP	200	39	
6 *	744.8661	9.56	25.48	35.04	46.00	-10.96	QP	200	70	



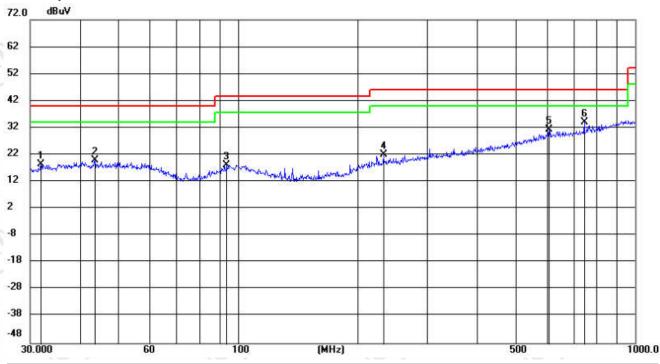


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Right hand keyboard:

Horizontal:



	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		Antenna Height	Table Degree	
			MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree	Comment
1	1		31.9545	5.39	13.10	18.49	40.00	-21.51	QP	200	350	
	2		43.6584	5.53	14.43	19.96	40.00	-20.04	QP	200	356	
	3		93.7684	5.04	13.19	18.23	43.50	-25.27	QP	100	171	
	4		232.5318	7.10	14.91	22.01	46.00	-23.99	QP	200	179	
	5		607.7867	7.32	24.08	31.40	46.00	-14.60	QP	100	4	
Ī	6	*	744.8660	8.67	25.48	34.15	46.00	-11.85	QP	200	356	

























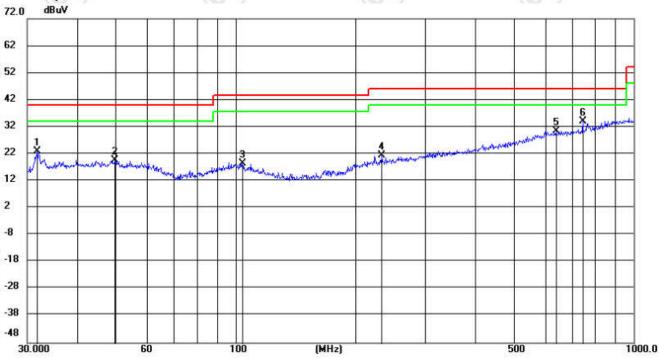






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Vertical:



No. M	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		Antenna Height	Table Degree	
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree	Comment
1	31.8427	9.96	13.08	23.04	40.00	-16.96	QP	100	10	
2	49.8814	5.45	14.27	19.72	40.00	-20.28	QP	200	190	
3	104.1701	5.11	13.46	18.57	43.50	-24.93	QP	100	59	
4	233.3486	6.39	14.93	21.32	46.00	-24.68	QP	100	356	
5	638.3686	6.11	24.30	30.41	46.00	-15.59	QP	100	130	
6 *	744.8660	8.65	25.48	34.13	46.00	-11.87	QP	200	350	







Radiated Spurious Emission above 1GHz:

Left hand keyboard:

BLE_1M:

Mode	:		BLE GFSK Trai	nsmitting		Channel:		2402 MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1135.0135	0.84	40.10	40.94	74.00	33.06	Pass	Н	PK
2	1823.0823	3.45	39.87	43.32	74.00	30.68	Pass	Н	PK
3	5759.1839	-13.72	56.38	42.66	74.00	31.34	Pass	Н	PK
4	7205.2804	-11.83	66.95	55.12	74.00	18.88	Pass	Н	PK
5	7206.2804	-11.83	60.17	48.34	54.00	5.66	Pass	Н	AV
6	10875.525	-6.33	50.20	43.87	74.00	30.13	Pass	Н	PK
7	14782.7855	0.99	47.85	48.84	74.00	25.16	Pass	Н	PK
8	1255.6256	0.95	40.17	41.12	74.00	32.88	Pass	V	PK
9	2040.504	4.69	39.68	44.37	74.00	29.63	Pass	V	PK
10	3531.0354	-20.13	54.39	34.26	74.00	39.74	Pass	V	PK
11	5760.184	-13.71	57.56	43.85	74.00	30.15	Pass	V	PK
12	7207.2805	-11.83	70.11	58.28	74.00	15.72	Pass	V	PK
13	7207.2805	-11.83	61.70	49.87	54.00	4.13	Pass	V	AV
14	11336.5558	-6.45	51.31	44.86	74.00	29.14	Pass	V	PK

Mode	:	E	BLE GFSK Trai	nsmitting		Channel:		2440 MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1286.6287	1.03	39.76	40.79	74.00	33.21	Pass	Н	PK
2	1757.6758	3.14	39.68	42.82	74.00	31.18	Pass	Н	PK
3	3854.0569	-19.17	55.73	36.56	74.00	37.44	Pass	Н	PK
4	5760.184	-13.71	55.95	42.24	74.00	31.76	Pass	Н	PK
5	7320.288	-11.65	64.11	52.46	74.00	21.54	Pass	Н	PK
6	11970.598	-5.42	52.43	47.01	74.00	26.99	Pass	Н	PK
7	1285.2285	1.03	39.97	41.00	74.00	33.00	Pass	V	PK
8	1998.0998	4.54	39.32	43.86	74.00	30.14	Pass	V	PK
9	3194.0129	-20.36	61.71	41.35	74.00	32.65	Pass	V	PK
10	5760.184	-13.71	56.30	42.59	74.00	31.41	Pass	V	PK
11	7320.288	-11.65	65.99	54.34	74.00	19.66	Pass	V	PK
12	7321.2881	-11.65	59.04	47.39	54.00	6.61	Pass	V	AV
13	9760.4507	-7.51	52.57	45.06	74.00	28.94	Pass	V	PK













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П	Mode:			DIE	250K T	:44:		01		2490 MU-	
	Mode	:		BLE (GFSK Tra	nsmitting 		Channel:		2480 MHz	
	NO	Freq. [MHz]	Factor [dB]		Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	1269.0269	0.98		40.61	41.59	74.00	32.41	Pass	Н	PK
3	2	1917.4917	4.13		39.48	43.61	74.00	30.39	Pass	Н	PK
	3	3326.0217	-19.90		56.79	36.89	74.00	37.11	Pass	Н	PK
	4	5760.184	-13.71		56.69	42.98	74.00	31.02	Pass	Н	PK
	5	7439.296	-11.34		59.83	48.49	74.00	25.51	Pass	Н	PK
	6	12560.6374	-4.39		50.25	45.86	74.00	28.14	Pass	Н	PK
	7	1281.8282	1.01		39.96	40.97	74.00	33.03	Pass	V	PK
	8	1994.4994	4.52		40.19	44.71	74.00	29.29	Pass	V	PK
	9	4185.079	-18.04		57.43	39.39	74.00	34.61	Pass	V	PK
Ī	10	5760.184	-13.71		55.21	41.50	74.00	32.50	Pass	V	PK
	11	7440.296	-11.34		62.19	50.85	74.00	23.15	Pass	V	PK
V	12	9921.4614	-7.10		53.00	45.90	74.00	28.10	Pass	V	PK

BLE_2M:

Mode	:	В	LE GFSK Trai	nsmitting		Channel:		2402 MHz	2
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1369.4369	1.29	40.15	41.44	74.00	32.56	Pass	Н	PK
2	1880.088	3.88	39.08	42.96	74.00	31.04	Pass	Н	PK
3	3855.057	-19.17	56.23	37.06	74.00	36.94	Pass	Н	PK
4	5760.184	-13.71	56.59	42.88	74.00	31.12	Pass	Н	PK
5	7207.2805	-11.83	62.67	50.84	74.00	23.16	Pass	Н	PK
6	12504.6336	-4.80	51.28	46.48	74.00	27.52	Pass	Н	PK
7	1282.4282	1.01	40.10	41.11	74.00	32.89	Pass	V	PK
8	2042.3042	4.69	38.73	43.42	74.00	30.58	Pass	V	PK
9	3529.0353	-20.12	55.38	35.26	74.00	38.74	Pass	V	PK
10	5760.184	-13.71	57.80	44.09	74.00	29.91	Pass	V	PK
11	7204.2803	-11.84	70.31	58.47	74.00	15.53	Pass	V	PK
12	7205.2804	-11.83	61.18	49.35	54.00	4.65	Pass	V	AV
13	10297.4865	-6.47	50.59	44.12	74.00	29.88	Pass	V	PK













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	1 4 4 4					1 1				
ľ	Mode	:		BLE GFSK Trai	nsmitting		Channel:		2440 MHz	Z
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
3	1	1330.433	1.16	39.84	41.00	74.00	33.00	Pass	Н	PK
0	2	1787.4787	3.24	40.07	43.31	74.00	30.69	Pass	Н	PK
	3	4177.0785	-18.06	54.14	36.08	74.00	37.92	Pass	Н	PK
	4	5760.184	-13.71	54.76	41.05	74.00	32.95	Pass	Н	PK
	5	7321.2881	-11.65	63.60	51.95	74.00	22.05	Pass	Н	PK
	6	11688.5792	-6.25	51.24	44.99	74.00	29.01	Pass	Н	PK
	7	1328.0328	1.15	39.66	40.81	74.00	33.19	Pass	V	PK
	8	1972.6973	4.41	39.17	43.58	74.00	30.42	Pass	V	PK
	9	3198.0132	-20.35	58.90	38.55	74.00	35.45	Pass	V	PK
100	10	5760.184	-13.71	54.97	41.26	74.00	32.74	Pass	V	PK
	11	7320.288	-11.65	66.52	54.87	74.00	19.13	Pass	V	PK
	12	7322.2882	-11.65	58.32	46.67	54.00	7.33	Pass	V	AV
	13	9758.4506	-7.52	52.91	45.39	74.00	28.61	Pass	V	PK

Mode	:		BLE GFSK Trai	nsmitting		Channel:		2480 MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1222.6223	0.86	40.99	41.85	74.00	32.15	Pass	Н	PK
2	1827.8828	3.49	39.14	42.63	74.00	31.37	Pass	Н	PK
3	4248.0832	-17.64	54.04	36.40	74.00	37.60	Pass	Н	PK
4	5760.184	-13.71	54.96	41.25	74.00	32.75	Pass	Н	PK
5	7440.296	-11.34	61.36	50.02	74.00	23.98	Pass	Н	PK
6	12579.6386	-4.26	50.95	46.69	74.00	27.31	Pass	Н	PK
7	1348.4348	1.22	40.06	41.28	74.00	32.72	Pass	V	PK
8	1901.8902	4.04	39.25	43.29	74.00	30.71	Pass	V	PK
9	4284.0856	-17.35	53.19	35.84	74.00	38.16	Pass	V	PK
10	5760.184	-13.71	55.22	41.51	74.00	32.49	Pass	V	PK
11	7441.2961	-11.34	59.99	48.65	74.00	25.35	Pass	V	PK
12	10398.4932	-6.28	51.54	45.26	74.00	28.74	Pass	V	PK













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Right hand keyboard:

BLE_1M:

Mode	:		BLE GFSK Trai	nsmitting		Channel:		2402 MHz	
NO	Freq. [MHz]	Factor	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1263.2263	0.96	40.38	41.34	74.00	32.66	Pass	Н	PK
2	1758.0758	3.13	39.44	42.57	74.00	31.43	Pass	Н	PK
3	3896.0597	-19.10	55.68	36.58	74.00	37.42	Pass	Н	PK
4	5760.184	-13.71	56.21	42.50	74.00	31.50	Pass	Н	PK
5	7205.2804	-11.83	63.22	51.39	74.00	22.61	Pass	Н	PK
6	11211.5474	-6.45	51.23	44.78	74.00	29.22	Pass	Н	PK
7	1258.6259	0.95	40.39	41.34	74.00	32.66	Pass	V	PK
8	1844.0844	3.61	39.57	43.18	74.00	30.82	Pass	V	PK
9	3197.0131	-20.36	60.47	40.11	74.00	33.89	Pass	V	PK
10	5760.184	-13.71	55.39	41.68	74.00	32.32	Pass	V	PK
11	7207.2805	-11.83	69.44	57.61	74.00	16.39	Pass	V	PK
12	7207.2805	-11.83	60.50	48.67	54.00	5.33	Pass	V	AV
13	11872.5915	-5.90	51.31	45.41	74.00	28.59	Pass	V	PK

	Mode	:		BLE GFSK Tra	nsmitting		Channel:		2440 MHz	2
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
3	1	1259.2259	0.95	40.42	41.37	74.00	32.63	Pass	Н	PK
	2	1904.8905	4.05	39.27	43.32	74.00	30.68	Pass	Н	PK
	3	3474.0316	-20.07	57.04	36.97	74.00	37.03	Pass	Н	PK
	4	5760.184	-13.71	55.33	41.62	74.00	32.38	Pass	Н	PK
	5	7321.2881	-11.65	62.30	50.65	74.00	23.35	Pass	Н	PK
	6	10793.5196	-6.24	51.46	45.22	74.00	28.78	Pass	Н	PK
	7	1260.6261	0.96	39.99	40.95	74.00	33.05	Pass	V	PK
Ī	8	1825.2825	3.47	39.30	42.77	74.00	31.23	Pass	V	PK
	9	3193.0129	-20.37	60.62	40.25	74.00	33.75	Pass	V	PK
	10	5760.184	-13.71	57.34	43.63	74.00	30.37	Pass	V	PK
9	11	7320.288	-11.65	66.66	55.01	74.00	18.99	Pass	V	PK
	12	7320.288	-11.65	59.42	47.77	54.00	6.23	Pass	V	AV
	13	13683.7122	-1.75	50.78	49.03	74.00	24.97	Pass	V	PK













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	20%								1	
	Mode:			BLE GFSK Tra	GFSK Transmitting				2480 MHz	
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	1244.0244	0.91	40.06	40.97	74.00	33.03	Pass	Н	PK
3	2	1841.6842	3.60	39.10	42.70	74.00	31.30	Pass	Н	PK
	3	3324.0216	-19.90	57.57	37.67	74.00	36.33	Pass	Н	PK
	4	5760.184	-13.71	55.56	41.85	74.00	32.15	Pass	Н	PK
	5	7440.296	-11.34	58.43	47.09	74.00	26.91	Pass	Н	PK
	6	13694.713	-1.76	49.54	47.78	74.00	26.22	Pass	Н	PK
	7	1204.4204	0.81	40.45	41.26	74.00	32.74	Pass	V	PK
Ī	8	1915.2915	4.11	38.64	42.75	74.00	31.25	Pass	V	PK
	9	3736.0491	-19.67	54.93	35.26	74.00	38.74	Pass	V	PK
İ	10	5760.184	-13.71	55.39	41.68	74.00	32.32	Pass	V	PK
Ì	11	7439.296	-11.34	61.57	50.23	74.00	23.77	Pass	V	PK
6	12	13118.6746	-3.58	49.41	45.83	74.00	28.17	Pass	V	PK
	100		7.70				7.70			1.10

BLE_2M:

	20%			20		_0			0	
	Mode:		BLE GFSK Transmitting			Channel:		2402 MHz		
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	1203.0203	0.80	41.04	41.84	74.00	32.16	Pass	Н	PK
0	2	1786.6787	3.23	39.78	43.01	74.00	30.99	Pass	Н	PK
) (3	3894.0596	-19.10	56.05	36.95	74.00	37.05	Pass	Н	PK
	4	5760.184	-13.71	55.82	42.11	74.00	31.89	Pass	Н	PK
	5	7206.2804	-11.83	63.90	52.07	74.00	21.93	Pass	Н	PK
	6	12393.6262	-4.75	51.35	46.60	74.00	27.40	Pass	Н	PK
Ī	7	1261.6262	0.96	40.43	41.39	74.00	32.61	Pass	V	PK
	8	1779.0779	3.21	40.53	43.74	74.00	30.26	Pass	V	PK
	9	3291.0194	-19.85	54.87	35.02	74.00	38.98	Pass	V	PK
	10	5760.184	-13.71	55.95	42.24	74.00	31.76	Pass	V	PK
0.5	11	7204.2803	-11.84	66.95	55.11	74.00	18.89	Pass	V	PK
	12	7206.2804	-11.83	57.64	45.81	54.00	8.19	Pass	V	AV
	13	12411.6274	-4.70	50.75	46.05	74.00	27.95	Pass	V	PK













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					/ /			181	
Мо	Mode:		BLE GFSK Transmitting			Channel:		2440 MHz	
NC	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1189.619	0.81	41.51	42.32	74.00	31.68	Pass	Н	PK
2	1811.4811	3.37	39.25	42.62	74.00	31.38	Pass	Н	PK
3	3858.0572	-19.16	55.70	36.54	74.00	37.46	Pass	Н	PK
4	5759.1839	-13.72	55.32	41.60	74.00	32.40	Pass	Н	PK
5	7320.288	-11.65	64.80	53.15	74.00	20.85	Pass	Н	PK
6	11409.5606	-6.13	51.26	45.13	74.00	28.87	Pass	Н	PK
7	1260.6261	0.96	40.72	41.68	74.00	32.32	Pass	V	PK
8	1834.8835	3.54	39.62	43.16	74.00	30.84	Pass	V	PK
9	3200.0133	-20.35	60.99	40.64	74.00	33.36	Pass	V	PK
10	5760.184	-13.71	57.11	43.40	74.00	30.60	Pass	V	PK
11	7321.2881	-11.65	65.93	54.28	74.00	19.72	Pass	V	PK
12	7322.2882	-11.65	56.60	44.95	54.00	9.05	Pass	V	AV
13	11270.5514	-6.57	51.35	44.78	74.00	29.22	Pass	V	PK

Mode	:		BLE GFSK Transmitting			Channel:		2480 MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1293.2293	1.04	40.25	41.29	74.00	32.71	Pass	Н	PK
2	1827.0827	3.48	39.16	42.64	74.00	31.36	Pass	Н	PK
3	4263.0842	-17.52	54.56	37.04	74.00	36.96	Pass	Н	PK
4	5760.184	-13.71	55.70	41.99	74.00	32.01	Pass	Н	PK
5	7438.2959	-11.35	60.56	49.21	74.00	24.79	Pass	Н	PK
6	11927.5952	-5.67	51.95	46.28	74.00	27.72	Pass	Н	PK
7	1324.2324	1.14	39.91	41.05	74.00	32.95	Pass	V	PK
8	1986.4986	4.48	39.14	43.62	74.00	30.38	Pass	V	PK
9	4185.079	-18.04	54.36	36.32	74.00	37.68	Pass	V	PK
10	5760.184	-13.71	56.39	42.68	74.00	31.32	Pass	V	PK
11	7441.2961	-11.34	60.52	49.18	74.00	24.82	Pass	V	PK
12	11239.5493	-6.51	51.37	44.86	74.00	29.14	Pass	V	PK

Remark:

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
 - Final Test Level =Receiver Reading + Antenna Factor + Cable Factor Preamplifier Factor
- 2) Scan from 9kHz to 25GHz, the disturbance above 10GHz and below 30MHz was very low. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.

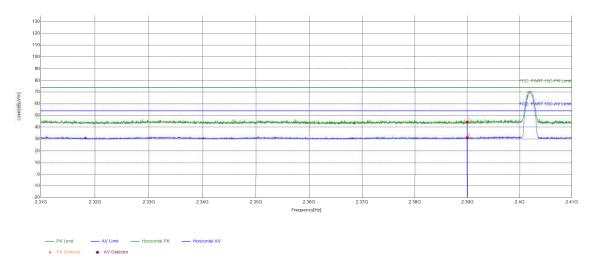


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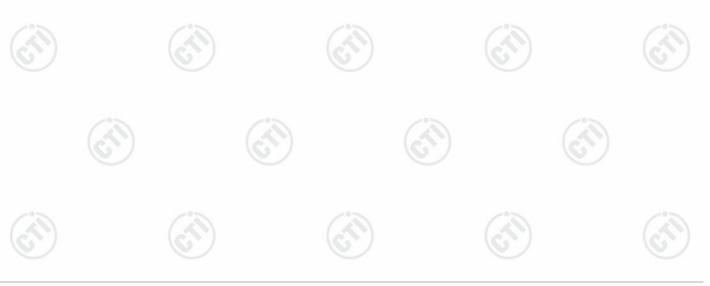
Restricted bands:

Left hand keyboard: Test plot as follows:

Mode:	BLE GFSK Transmitting	Channel:	2402
Remark:	1Mbps		



Suspecte	d List								
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2390	5.77	38.62	44.39	74.00	29.61	PASS	Horizontal	PK
2	2390	5.77	25.32	31.09	54.00	22.91	PASS	Horizontal	AV

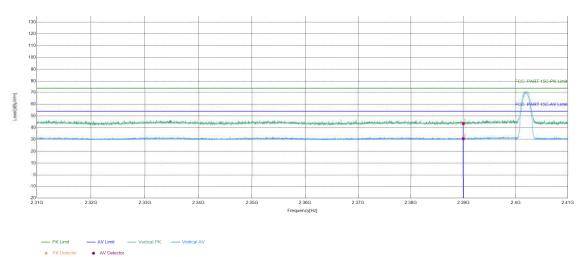




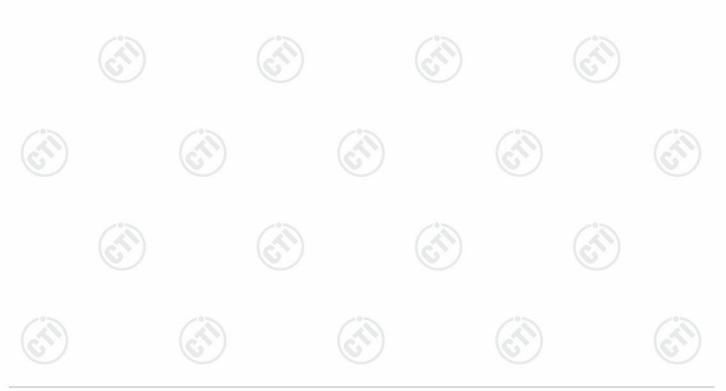


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Mode:	BLE GFSK Transmitting	Channel:	2402
Remark:	1Mbps		

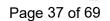


	Suspecte	d List								
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
ſ	1	2390	5.77	37.79	43.56	74.00	30.44	PASS	Vertical	PK
ſ	2	2390	5.77	24.95	30.72	54.00	23.28	PASS	Vertical	AV

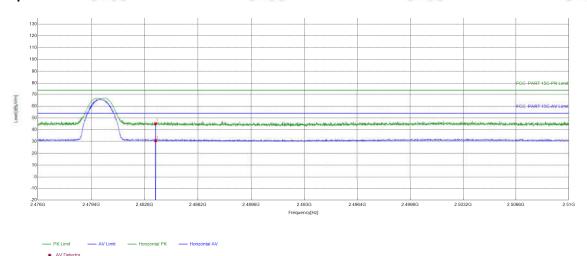




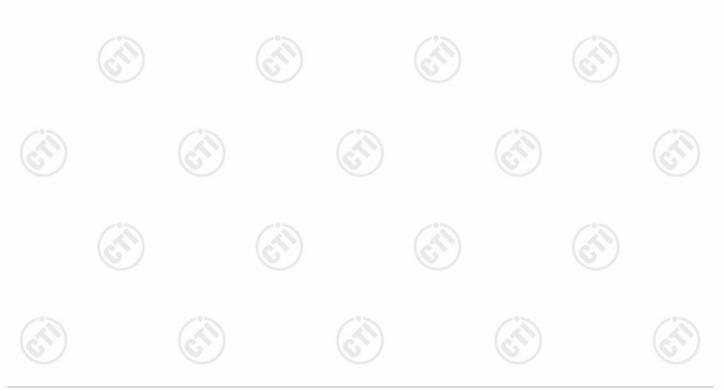




Mode:	BLE GFSK Transmitting	Channel:	2480
Remark:	1Mbps		



Suspecte	Suspected List											
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark			
1	2483.5	6.57	38.56	45.13	74.00	28.87	PASS	Horizontal	PK			
2	2483.5	6.57	24.11	30.68	54.00	23.32	PASS	Horizontal	AV			

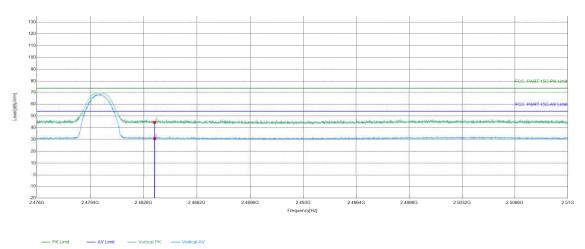




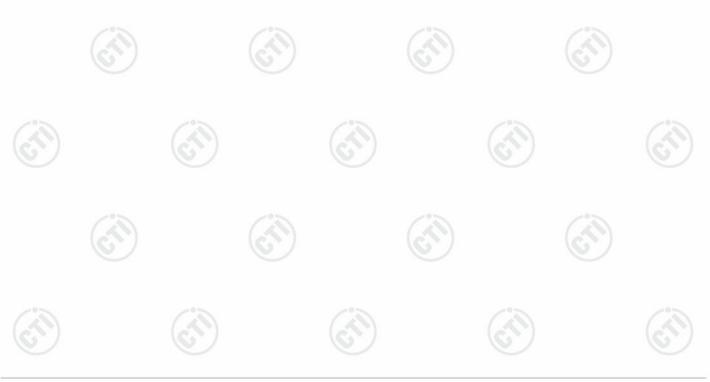




Mode:	BLE GFSK Transmitting	Channel:	2480
Remark:	1Mbps		



Suspecte	Suspected List											
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark			
1	2483.5	6.57	37.96	44.53	74.00	29.47	PASS	Vertical	PK			
2	2483.5	6.57	24.22	30.79	54.00	23.21	PASS	Vertical	AV			

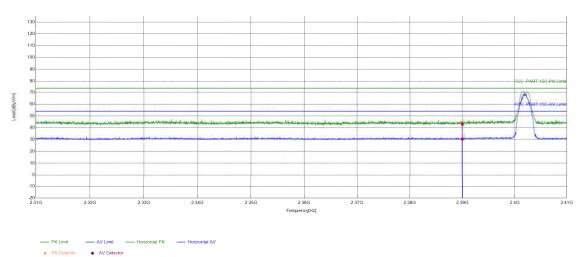




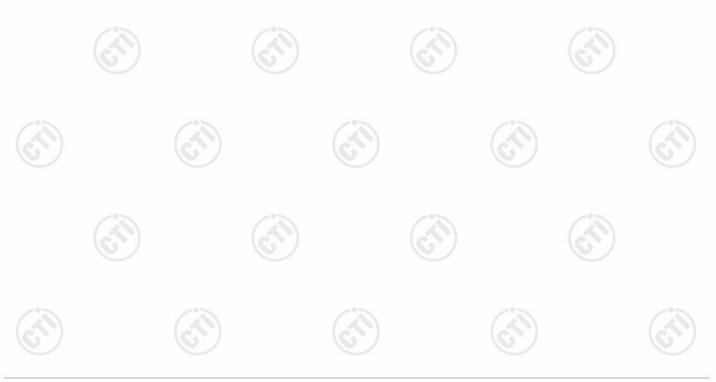


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Mode:	BLE GFSK Transmitting	Channel:	2402
Remark:	2Mbps		



П	0	.1.1.1.4										
	Suspected List											
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark		
ſ	1	2390	5.77	37.21	42.98	74.00	31.02	PASS	Horizontal	PK		
Ī	2	2390	5.77	24.69	30.46	54.00	23.54	PASS	Horizontal	AV		

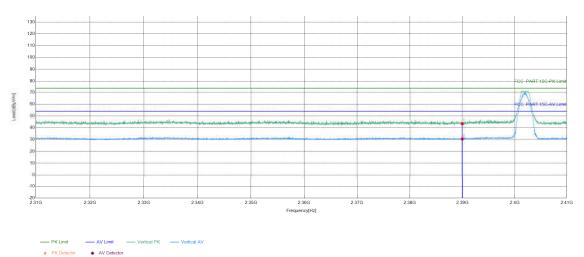




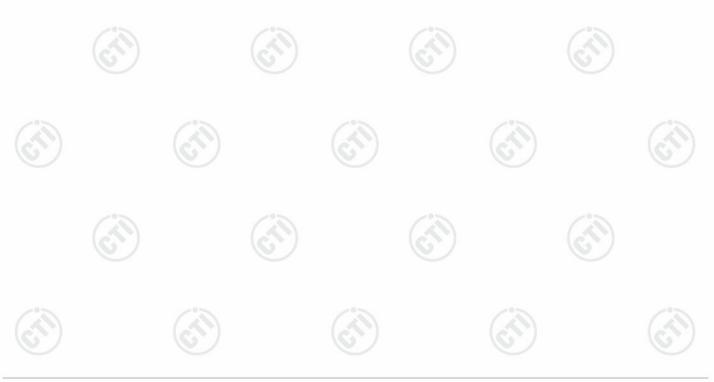


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Mode:	BLE GFSK Transmitting	Channel:	2402
Remark:	2Mbps		



	Suspected List											
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark		
Г	1	2390	5.77	37.67	43.44	74.00	30.56	PASS	Vertical	PK		
	2	2390	5.77	24.73	30.50	54.00	23.50	PASS	Vertical	AV		

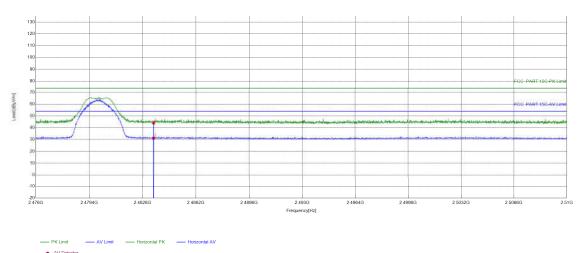




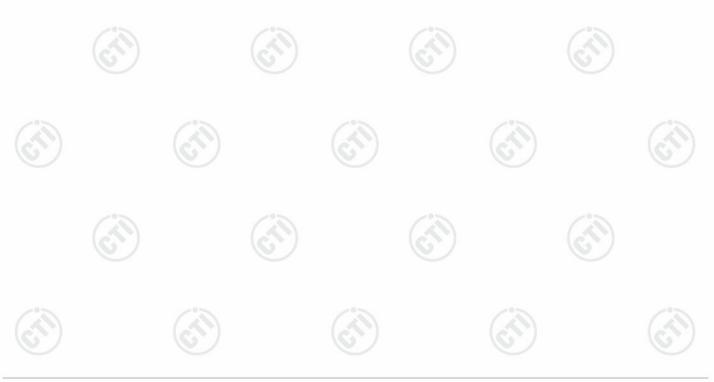




Mode:	BLE GFSK Transmitting	Channel:	2480
Remark:	2Mbps		



	Suspected List											
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark		
Ī	1	2483.5	6.57	37.44	44.01	74.00	29.99	PASS	Horizontal	PK		
	2	2483.5	6.57	24.60	31.17	54.00	22.83	PASS	Horizontal	AV		

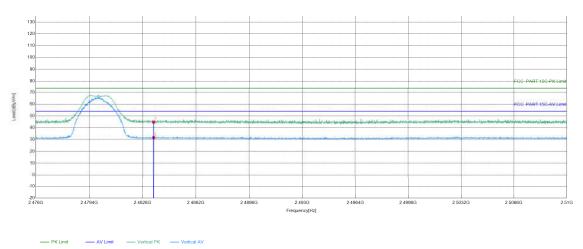




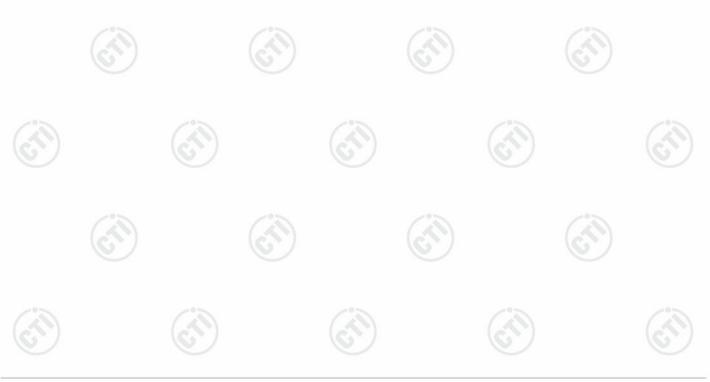




Mode:	BLE GFSK Transmitting	Channel:	2480
Remark:	2Mbps		



Suspecte	Suspected List											
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark			
1	2483.5	6.57	38.17	44.74	74.00	29.26	PASS	Vertical	PK			
2	2483.5	6.57	25.11	31.68	54.00	22.32	PASS	Vertical	AV			

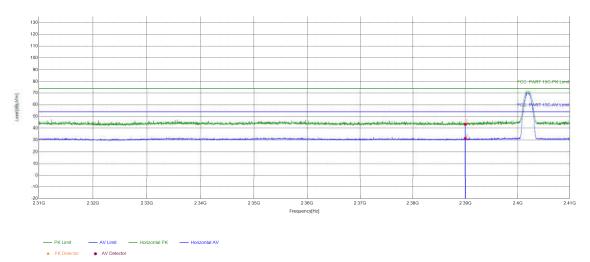






Right hand keyboard: Test plot as follows:

Mode:	BLE GFSK Transmitting	Channel:	2402
Remark:	1Mbps		



	Suspecte	d List								
0.7	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	2390	5.77	37.66	43.43	74.00	30.57	PASS	Horizontal	PK
100	2	2390	5.77	25.48	31.25	54.00	22.75	PASS	Horizontal	AV

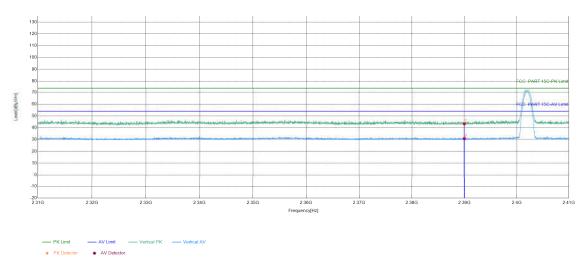




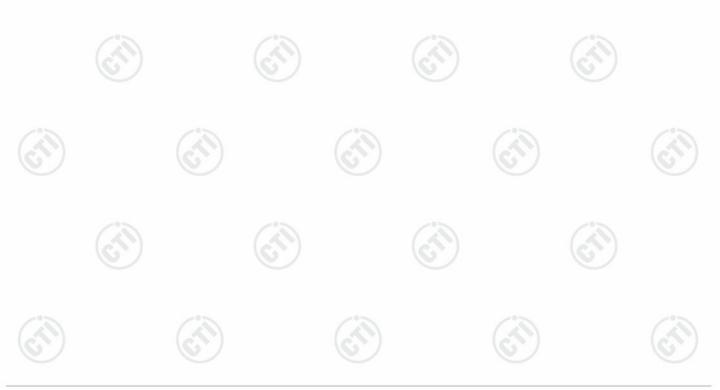




Mode:	BLE GFSK Transmitting	Channel:	2402
Remark:	1Mbps		



	Suspecte	d List								
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
ſ	1	2390	5.77	37.67	43.44	74.00	30.56	PASS	Vertical	PK
ſ	2	2390	5.77	24.98	30.75	54.00	23.25	PASS	Vertical	AV

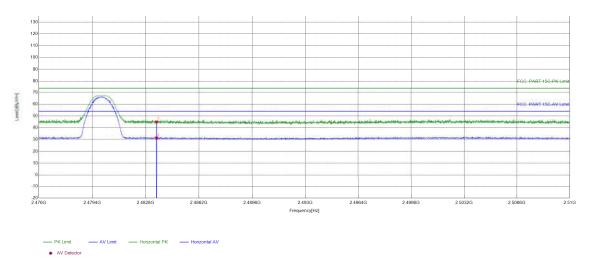




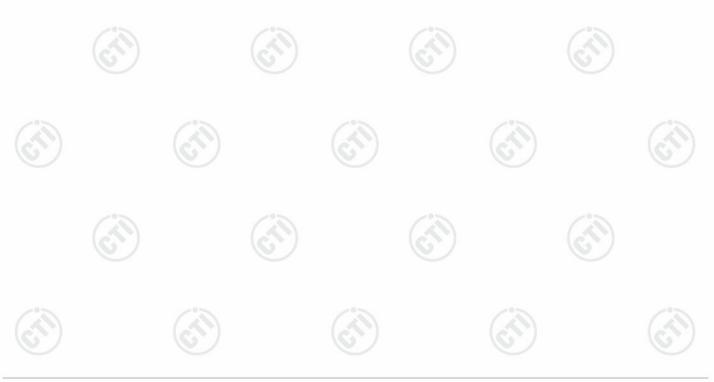




Mode:	BLE GFSK Transmitting	Channel:	2480
Remark:	1Mbps		



Suspected List										
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
ſ	1	2483.5	6.57	38.37	44.94	74.00	29.06	PASS	Horizontal	PK
Ī	2	2483.5	6.57	24.77	31.34	54.00	22.66	PASS	Horizontal	AV

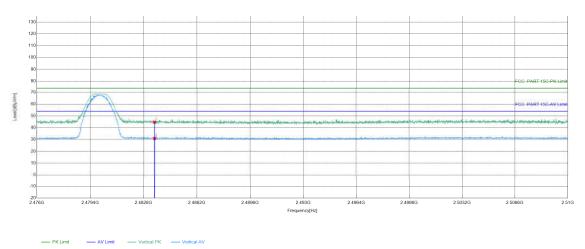




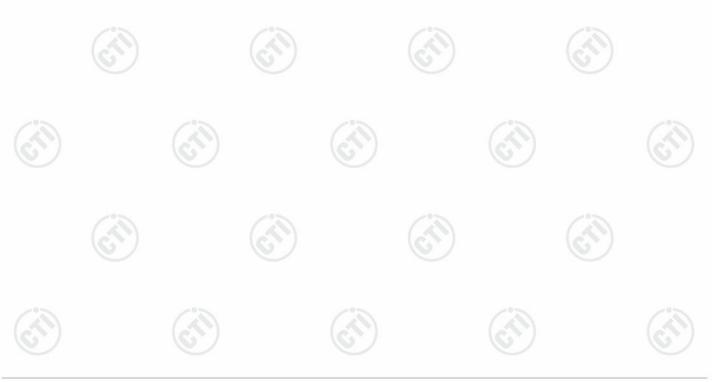




Mode:	BLE GFSK Transmitting	Channel:	2480
Remark:	1Mbps		



	Suspecte	d List								
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
Ī	1	2483.5	6.57	38.05	44.62	74.00	29.38	PASS	Vertical	PK
	2	2483.5	6.57	24.29	30.86	54.00	23.14	PASS	Vertical	AV

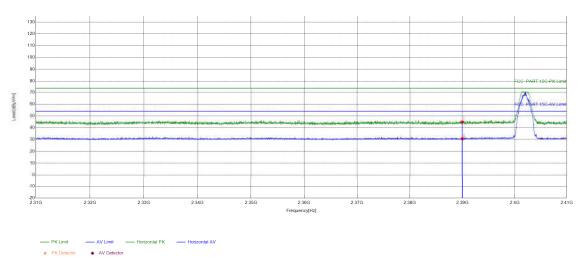




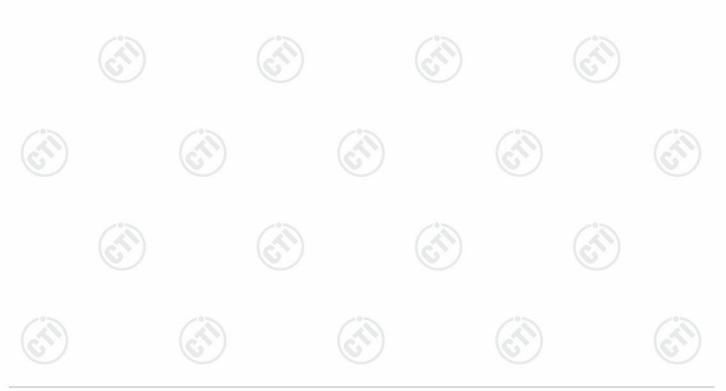




Mode:	BLE GFSK Transmitting	Channel:	2402
Remark:	2Mbps		



	Suspecte	d List								
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
Г	1	2390	5.77	39.11	44.88	74.00	29.12	PASS	Horizontal	PK
	2	2390	5.77	24.85	30.62	54.00	23.38	PASS	Horizontal	AV

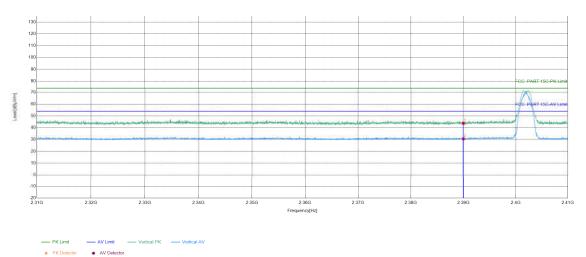




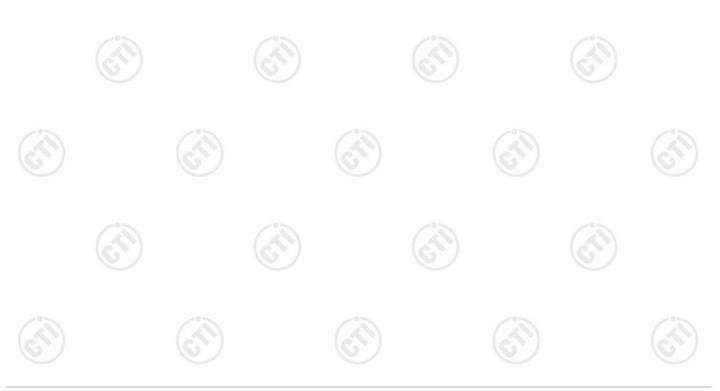




Mode:	BLE GFSK Transmitting	Channel:	2402
Remark:	2Mbps		



	Suspecte	d Liet								
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
ſ	1	2390	5.77	38.04	43.81	74.00	30.19	PASS	Vertical	PK
ſ	2	2390	5.77	24.77	30.54	54.00	23.46	PASS	Vertical	AV

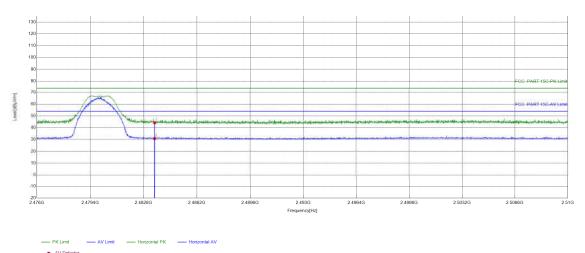




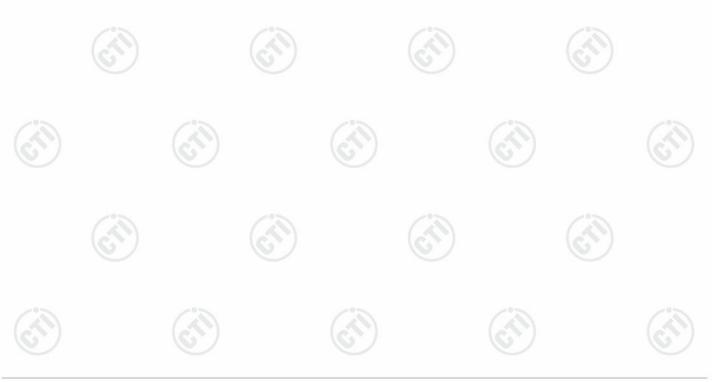


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Mode:	BLE GFSK Transmitting	Channel:	2480
Remark:	2Mbps		



Suspecte	Suspected List								
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5	6.57	37.65	44.22	74.00	29.78	PASS	Horizontal	PK
2	2483.5	6.57	24.29	30.86	54.00	23.14	PASS	Horizontal	AV



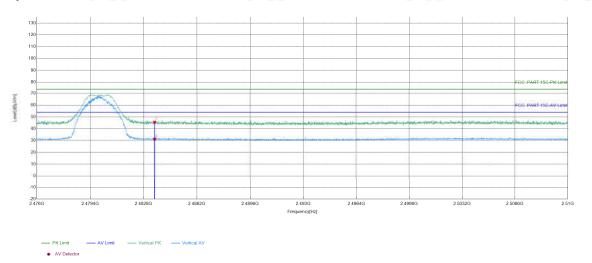




Mode:	BLE GFSK Transmitting	Channel:	2480
Remark:	2Mbps		

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Test Graph



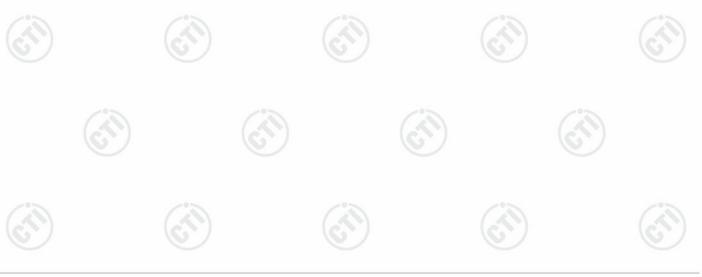
	Suspected List									
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	2483.5	6.57	39.01	45.58	74.00	28.42	PASS	Vertical	PK
٩	2	2483.5	6.57	24.70	31.27	54.00	22.73	PASS	Vertical	AV

Note:

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

Final Test Level =Receiver Reading -Correct Factor

Correct Factor = Preamplifier Factor - Antenna Factor - Cable Factor











Appendix BLE





Refer to Appendix: Bluetooth LE of EED32O81791701.



















































































