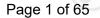


Report No.: EED32N81130402



TEST REPORT

Silencer BT 2.0 Product

Trade mark Walker's

GWP-SLCR2-BT-V2 Model/Type reference

Serial Number N/A

Report Number EED32N81130402

FCC ID 2AU3A-GWPSLCR2BT2

Nov. 25, 2021 Date of Issue

Test Standards 47 CFR Part 15 Subpart C

Test result **PASS**

Prepared for:

Good Sportsman Marketing.LLC 5250 Frye Road Irving.TX 75061

Prepared by:

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

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Date:

Nov. 25, 2021

David Wang

Check No.: 9617021121













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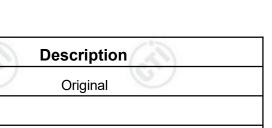
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Date

Nov. 25, 2021













































































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
Maximum Conducted Output Power	47 CFR Part 15, Subpart C Section 15.247 (b)(1)	PASS
20dB Emission Bandwidth	47 CFR Part 15, Subpart C Section 15.247 (a)(1)	PASS
Carrier Frequency Separation	47 CFR Part 15, Subpart C Section 15.247 (a)(1)	PASS
Number of Hopping Channels	47 CFR Part 15, Subpart C Section 15.247 (a)(1)	PASS
Time of Occupancy	47 CFR Part 15, Subpart C Section 15.247 (a)(1)	PASS
Pseudorandom Frequency Hopping Sequence	47 CFR Part 15, Subpart C Section 15.247(b)(4)	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 emissions	47 CFR Part 15, Subpart C Section 15.205/15.209	PASS
Restricted bands around fundamental frequency	47 CFR Part 15, Subpart C Section 15.205/15.209	PASS

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.







4.1 Client Information

Applicant:	Good Sportsman Marketing.LLC	
Address of Applicant:	5250 Frye Road Irving.TX 75061	
Manufacturer:	Good Sportsman Marketing.LLC	
Address of Manufacturer:	5250 Frye Road Irving.TX 75061	130
Factory:	Concord Intelligent Technology (Huizhou) Ltd.	(6)
Address of Factory:	25, Ping An Rd, Shuikou Street, Hui Cheng District, Huizhou City,	
	Guangdong Province, China	

4.2 General Description of EUT

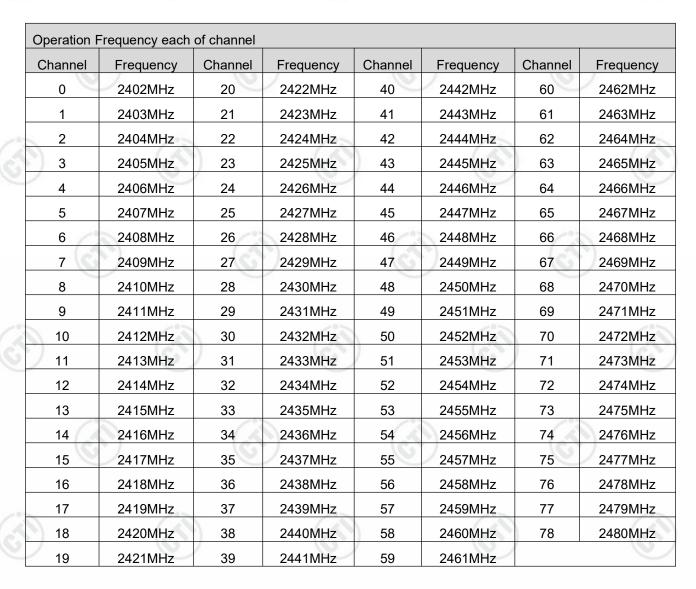
(I) 1990 PM		
Product Name:	Silencer BT 2.0	(6)
Mode No.:	GWP-SLCR2-BT-V2	
Trade mark:	Walker's	
EUT Supports Radios application:	BT 5.0 Dual mode, 2402MHz to 2480MHz	(1)
Bluetooth Version:	V5.0	
Product Type:	☐ Mobile ☐ Portable ☐ Fix Location	on
Power Supply:	Battery: DC 3.8V, Charge by DC 5.0V	
Test Voltage:	DC 3.8V	
Sample Received Date:	Nov. 03, 2021	(6.)
Sample tested Date:	Nov. 03, 2021 to Nov. 10, 2021	

4.3 Product Specification subjective to this standard

Operation Frequency:	2402MHz~2480MHz
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Modulation Type:	GFSK, π/4DQPSK, 8DPSK
Number of Channel:	79
Hopping Channel Type:	Adaptive Frequency Hopping systems
Antenna Type:	FPC Antenna
Antenna Gain:	0.8dBi







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	2441MHz
The Highest channel	2480MHz













EUT Test Software Settings	s:			
Software:	BlueTest3 (manufacturer declare)	(5,5)		
EUT Power Grade:	Class2 (Power level is built-in set para selected)	rameters and cannot be changed and		
Use test software to set the letransmitting of the EUT.	owest frequency, the middle frequency and	the highest frequency keep		
Mode	Channel	Frequency(MHz)		
	CH0	2402		
DH1/DH3/DH5	CH39	2441		
	CH78	2480		
	CH0	2402		
2DH1/2DH3/2DH5	CH39	2441		
	CH78	2480		
	CH0	2402		
3DH1/3DH3/3DH5	СН39	2441		
	CH78	2480		

4.5 **Test Environment**

	Operating Environment:						
	Radiated Spurious Emissions:						
	Temperature:	22~25.0 °C					
	Humidity:	50~55 % RH		(3)		(3)	
")	Atmospheric Pressure:	1010mbar		(67)		(6.72)	
	Conducted Emissions:						
	Temperature:	22~25.0 °C					
	Humidity:	50~55 % RH					
	Atmospheric Pressure:	1010mbar	(31)				
	RF Conducted:						
	Temperature:	22~25.0 °C					
	Humidity:	50~55 % RH					
	Atmospheric Pressure:	1010mbar					

4.6 **Description of Support Units**

The EUT has been tested with associated equipment below.

1) support equipment

Description	Manufacturer	Model No.	Certification	Supplied by
Notebook	DELL	DELL 3490	FCC ID and DOC	СТІ















All tests were performed at:

Centre Testing International Group Co., Ltd

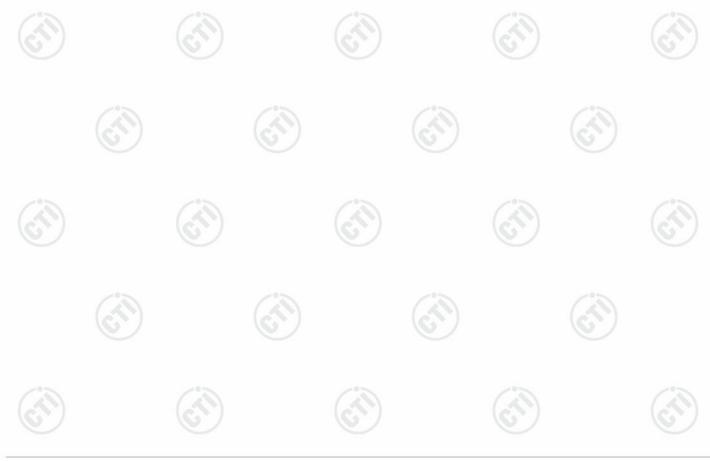
Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

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

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

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

No.	Item	Measurement Uncertainty
1	Radio Frequency	7.9 x 10 ⁻⁸
2	DE novem conducted	0.46dB (30MHz-1GHz)
2	RF power, conducted	0.55dB (1GHz-18GHz)
		3.3dB (9kHz-30MHz)
2	Dedicted Courieus emission test	4.3dB (30MHz-1GHz)
3	Radiated Spurious emission test	4.5dB (1GHz-18GHz)
		3.4dB (18GHz-40GHz)
4	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%







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	04-15-2021	04-14-2022	
Temperature/ Humidity Indicator	Defu	TH128	1	(CL)	-(37)	
LISN	R&S	ENV216	100098	03-04-2021	03-03-2022	
Barometer	changchun	DYM3	1188			

		RF test sy	stem				
Equipment	Manufacturer	Mode No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)		
Spectrum Analyzer	pectrum Analyzer Keysight		rum Analyzer Keysight N9010A MY545103		MY54510339	12-28-2020	12-27-2021
Signal Generator	Keysight	N5182B	MY53051549	12-28-2020	12-27-2021		
Signal Generator	Keysight	E8257D	MY53401106	12-28-2020	12-27-2021		
Temperature/ Humidity Indicator	biaozhi	HM10	1804186	06-23-2021	06-22-2022		
High-pass filter	Sinoscite	FL3CX03WG18NM12- 0398-002					
High-pass filter	MICRO-TRONICS	SPA-F-63029-4	(1 to 1 t				
DC Power	Keysight	E3642A	MY56376072	12-28-2020	12-27-2021		
Power unit	R&S	OSP120	101374	12-28-2020	12-27-2021		
RF control unit	JS Tonscend	JS0806-2	158060006	12-28-2020	12-27-2021		
BT&WI-FI Automatic test software	JS Tonscend	JS1120-3		(°5			
band rejection filter	Sinoscite	FL5CX01CA09CL12- 0395-001		(CL)	-(67)		
band rejection filter	Sinoscite	FL5CX01CA08CL12- 0393-001					
band rejection filter	Sinoscite	FL5CX02CA04CL12- 0396-002		(
band rejection filter	Sinoscite	FL5CX02CA03CL12- 0394-001		6)		
Communication test set	R&S	CMW500	120765	08-04-2021	08-03-2022		
high-low temperature test chamber	Dong Guang Qin Zhuo	LK-80GA	QZ20150611879	12-28-2020	12-27-2021		



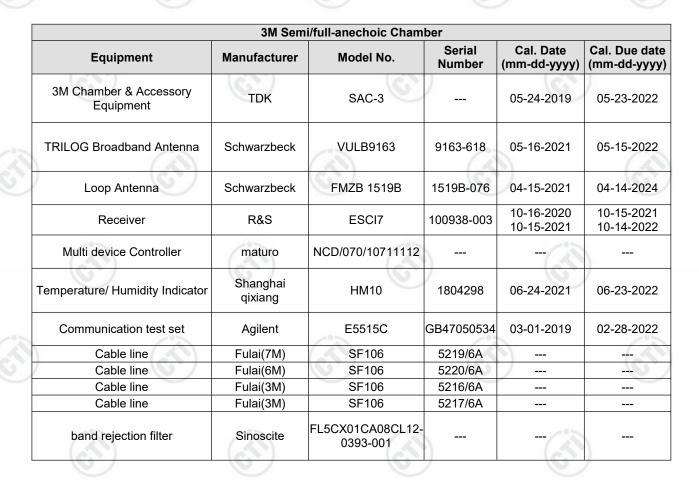


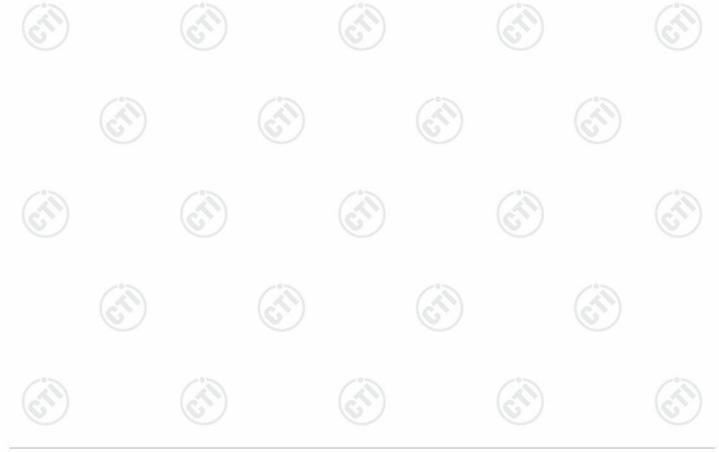




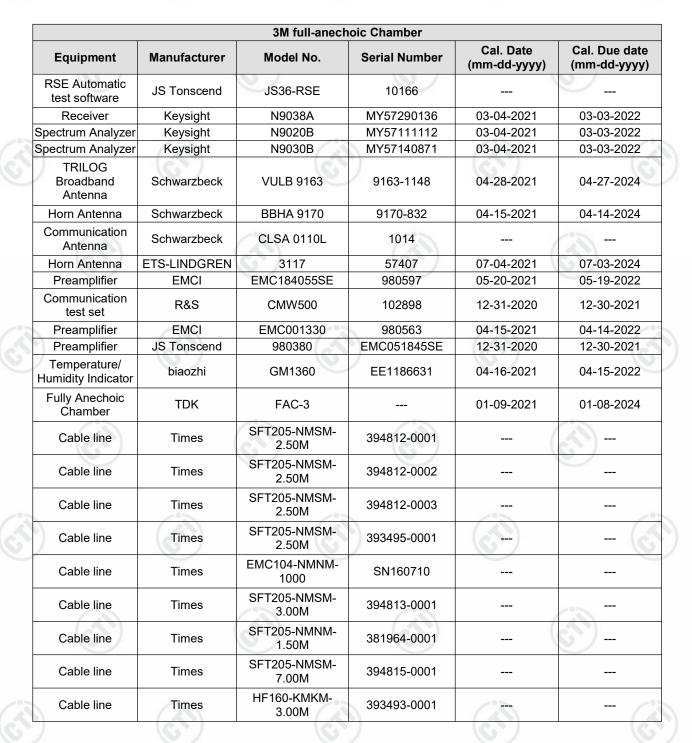


























5.1 Antenna Requirement

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 FPC antenna. The best case gain of the antenna is 0.8dBi.







5.2	AC Power Line Col	nauctea Emissions			
	Test Requirement:	47 CFR Part 15C Section 15.	207	- °	
	Test Method:	ANSI C63.10: 2013		(40)	
	Test Frequency Range:	150kHz to 30MHz	(6.	(0,)	
	Receiver setup:	RBW=9 kHz, VBW=30 kHz, S	Sweep time=auto		
	Limit:	Fragueney range (MUZ)	Limit (d	BuV)	1 (Line Ω linear IT were eference sured. A bles to a cove the EUT was e rear of ne. The ground ry of the r LISNs between the EUT
		Frequency range (MHz)	Quasi-peak	Average	
9		0.15-0.5	66 to 56*	56 to 46*	15
4		0.5-5	56	46	
9		5-30	60	50	
		* Decreases with the logarithr			
	Test Setup:				7
		Shielding Room EUT AC Mains LISN1	AE LISN2 → AC Main Ground Reference Plane	Test Receiver	9
	Test Procedure:	The mains terminal distur		conducted in a ship	elded
	restriocedure.	room. 2) The EUT was connected Impedance Stabilization Nimpedance. The power connected to a second LII plane in the same way multiple socket outlet strip single LISN provided the ray of the same was placed on the horizontal ground reference plane. A placed on the horizontal ground.	I to AC power source Network) which provides cables of all other SN 2, which was bonde as the LISN 1 for the was used to connect reating of the LISN was naced upon a non-meta and for floor-standing and	through a LISN 1 is a 50Ω/50μH + 5Ω I units of the EUT d to the ground refer unit being measure multiple power cables ot exceeded.	(Line linear were rence ed. A s to a
		4) The test was performed we the EUT shall be 0.4 me vertical ground reference reference plane. The LISI unit under test and bore mounted on top of the ground associated equipments of the and associated equipments of the interface cand all of the interface cand and all of the interface cand and control in the maximand all of the interface cand and control in the maximand all of the interface cand and control in the interface cand and control i	ith a vertical ground ref from the vertical ground e plane was bonded of N 1 was placed 0.8 m nded to a ground ref bund reference plane. T LISN 1 and the EUT. A t was at least 0.8 m from hum emission, the relative bles must be changed and anducted measurement.	nd reference plane. to the horizontal gr from the boundary of the plane for L his distance was between the LISN 2. The positions of equipaccording to	The round of the ISNs ween EUT
	Test Mode:	All modes were tested, only the		for DH5 was record	ed in
		the report.	(6)	(6,2)	
	Test Results:	Pass			







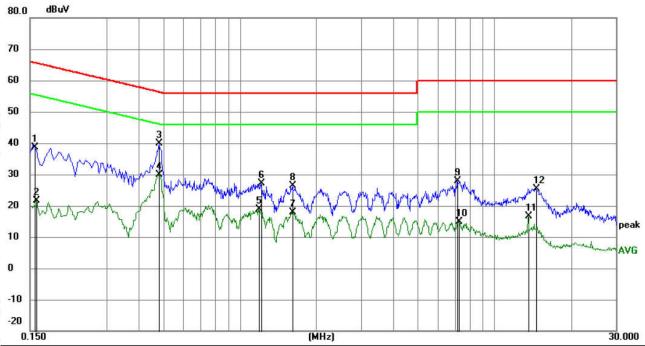












No	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBu∀	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1565	28.79	9.87	38.66	65.65	-26.99	peak	
2		0.1590	11.82	9.87	21.69	55.52	-33.83	AVG	
3	*	0.4830	29.97	9.95	39.92	56.29	-16.37	peak	
4		0.4830	19.89	9.95	29.84	46.29	-16.45	AVG	
5		1.1895	9.12	9.82	18.94	46.00	-27.06	AVG	
6		1.2120	17.41	9.82	27.23	56.00	-28.77	peak	
7	(1.6035	8.03	9.81	17.84	46.00	-28.16	AVG	
8		1.6170	16.60	9.81	26.41	56.00	-29.59	peak	
9		7.1700	18.09	9.79	27.88	60.00	-32.12	peak	
10		7.2465	5.00	9.79	14.79	50.00	-35.21	AVG	
11		13.5600	6.85	9.89	16.74	50.00	-33.26	AVG	
12		14.5320	15.51	9.92	25.43	60.00	-34.57	peak	

- 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.













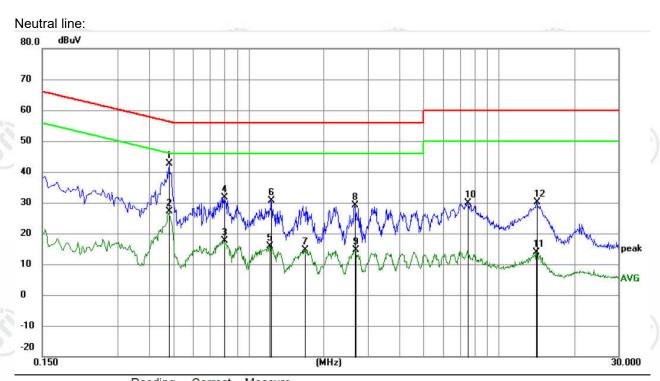












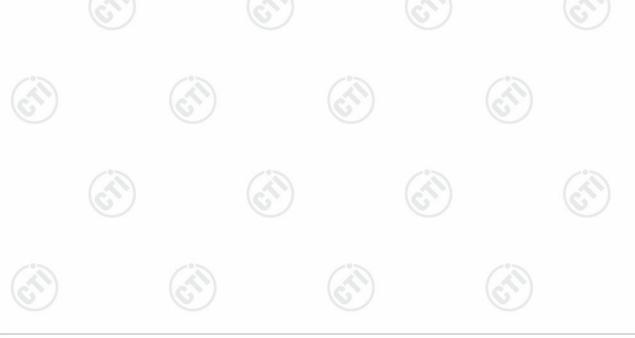
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment	
1	*	0.4830	32.60	9.95	42.55	56.29	-13.74	peak		
2		0.4830	17.16	9.95	27.11	46.29	-19.18	AVG		
3		0.7980	7.87	9.85	17.72	46.00	-28.28	AVG		
4		0.8025	21.84	9.85	31.69	56.00	-24.31	peak		
5		1.2120	6.17	9.82	15.99	46.00	-30.01	AVG		
6		1.2300	20.91	9.82	30.73	56.00	-25.27	peak		
7		1.6800	4.71	9.80	14.51	46.00	-31.49	AVG		
8		2.6610	19.26	9.79	29.05	56.00	-26.95	peak		
9		2.6745	4.86	9.79	14.65	46.00	-31.35	AVG		
10		7.4940	20.06	9.79	29.85	60.00	-30.15	peak		
11		14.1000	3.89	9.90	13.79	50.00	-36.21	AVG		
12		14.1720	20.16	9.91	30.07	60.00	-29.93	peak		

- 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.





Test Requirement:	47 CFR Part 15C Section 15.247 (b)(1)				
Test Method:	ANSI C63.10:2013				
Test Setup:	RF test Control Control Control Power Supply RF test System Instrument Remark: Offset=Cable loss+ attenuation factor.				
Test Procedure:	Use the following spectrum analyzer settings: Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel RBW > the 20 dB bandwidth of the emission being measured VBW ≥ RBW Sweep = auto Detector function = peak Trace = max hold Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission.				
Limit:	21dBm				
Exploratory Test Mode:	Non-hopping transmitting with all kind of modulation and all kind of data type				
Final Test Mode:	Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of $\pi/4DQPSK$ modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type.				
Test Results:	Refer to Appendix A				









Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)				
Test Method:	ANSI C63.10:2013				
Test Setup: Test Procedure:	Remark: Offset=Cable loss+ attenuation factor. 1. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Use the following spectrum analyzer settings for 20dB Bandwidth measurement. Span = approximately 2 to 5 times the 20 dB bandwidth, centered on a hopping channel; 1%≤RBW ≤5% of the 20 dB bandwidth; VBW≥3RBW; Sweep = auto; Detector function = peak; Trace = max hold. 4. Measure and record the results in the test report.				
Limit:	NA .				
Exploratory Test Mode:	Non-hopping transmitting with all kind of modulation and all kind of data type				
Final Test Mode:	Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of $\pi/4DQPSK$ modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type.				
Test Results:	Refer to Appendix A				





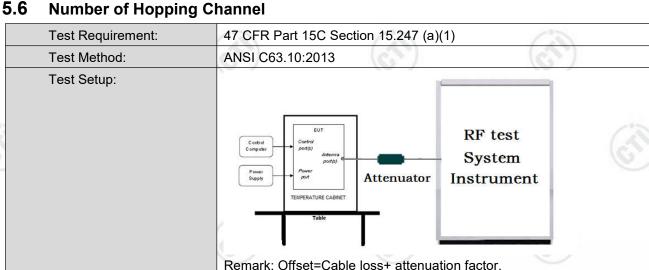


Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2013
Test Setup:	Control Computer Power Supply Power Supply Table RF test System System Instrument Instrument
	Remark: Offset=Cable loss+ attenuation factor.
Test Procedure:	 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Enable the EUT hopping function. Use the following spectrum analyzer settings: Span = wide enough to capture the peaks of two adjacent channels; RBW is set to approximately 30% of the channel spacing, adjust as necessary to best identify the center of each individual channel; VBW≥RBW; Sweep = auto; Detector function = peak; Trace = max hold. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. Record the value in report.
Limit:	Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater.
Exploratory Test Mode	: Hopping transmitting with all kind of modulation and all kind of data type
Final Test Mode:	Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of $\pi/4DQPSK$ modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type.
Test Results:	Refer to Appendix A









Remark: Offset=Cable loss+ attenuation factor. 1. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. 2. Set to the maximum power setting and enable the EUT transmit continuously.

- 3. Enable the EUT hopping function.
 4. Use the following spectrum analyzer settings: Span = the frequency band of operation; set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller; VBW≥RBW; Sweep= auto;
- Detector function = peak; Trace = max hold.

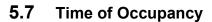
 5. The number of hopping frequency used is defined as the number of total channel.
- 6. Record the measurement data in report.

 Limit: Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.

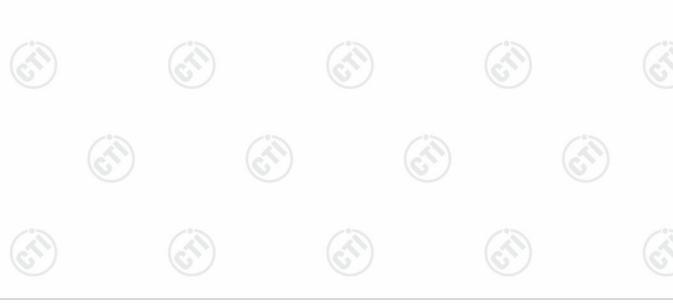
	react to chambio.
Test Mode:	Hopping transmitting with all kind of modulation
Test Results:	Refer to Appendix A







Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2013
Test Setup:	Control Computer Power Supply Power Table RF test System System Instrument
	Remark: Offset=Cable loss+ attenuation factor.
Test Procedure:	 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Enable the EUT hopping function. Use the following spectrum analyzer settings: Span = zero span, centered on a hopping channel; RBW shall be ≤ channel spacing and where possible RBW should be set >> 1 / T, where T is the expected dwell time per channel; VBW≥RBW; Sweep = as necessary to capture the entire dwell time per hopping channel; Detector function = peak; Trace = max hold. Measure and record the results in the test report.
Limit:	The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.
Test Mode:	Hopping transmitting with all kind of modulation and all kind of data type.
Test Results:	Refer to Appendix A









	•	
Test F	Requirement:	47 CFR Part 15C Section 15.247 (d)
Test N	Method:	ANSI C63.10:2013
Test S	Setup:	Control Computer Power Potent Potent Potent Power Potent Potent Table RF test System System Instrument
		Remark: Offset=Cable loss+ attenuation factor.
Test F	Procedure:	 Set to the maximum power setting and enable the EUT transmit continuously. Set RBW = 100 kHz, VBW = 300 kHz (≥RBW). Band edge emissions must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100kHz RBW. The attenuation shall be 30 dB instead of 20 dB when RMS conducted output power procedure is used. Enable hopping function of the EUT and then repeat step 2 and 3. Measure and record the results in the test report.
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.
Explo	ratory Test Mode:	Hopping and Non-hopping transmitting with all kind of modulation and all kind of data type
Final ⁻	Test Mode:	Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of $\pi/4DQPSK$ modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type.
Test F	Results:	Refer to Appendix A







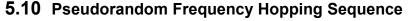
Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10:2013
Test Setup:	Control Compodes Power Supply Power Temperature Cabriet Table RF test System System Instrument
	Remark: Offset=Cable loss+ attenuation factor.
Test Procedure:	 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Set RBW = 100 kHz, VBW = 300kHz, scan up through 10th harmonic. All harmonics / spurs must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100kHz RBW. Measure and record the results in the test report. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
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.
Exploratory Test Mode:	Non-hopping transmitting with all kind of modulation and all kind of data type
Final Test Mode:	Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of π /4DQPSK modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type.











47 CFR Part 15C Section 15.247 (a)(1), (h) requirement: Test Requirement:

The system shall hop to channel frequencies that are selected at the system hopping rate from a Pseudorandom ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

Frequency hopping spread spectrum systems are not required to employ all available hopping channels during each transmission. However, the system, consisting of both the transmitter and the receiver, must be designed to comply with all of the regulations in this section should the transmitter be presented with a continuous data (or information) stream. In addition, a system employing short transmission bursts must comply with the definition of a frequency hopping system and must distribute its transmissions over the minimum number of hopping channels specified in this section.

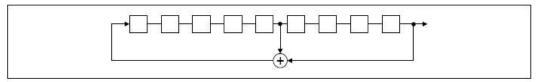
The incorporation of intelligence within a frequency hopping spread spectrum system that permits the system to recognize other users within the spectrum band so that it individually and independently chooses and adapts its hopsets to avoid hopping on occupied channels is permitted. The coordination of frequency hopping systems in any other manner for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters is not permitted.

Compliance for section 15.247(a)(1)

According to Bluetooth Core Specification, the pseudorandom sequence may be generated in a ninestage shift register whose 5th and 9th stage

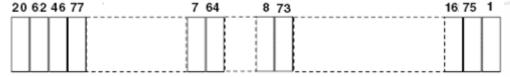
outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first ONE of 9 consecutive ONEs; i.e. the shift register is initialized with nine ones.

- Number of shift register stages: 9
- Length of pseudo-random sequence: 29 -1 = 511 bits
- Longest sequence of zeros: 8 (non-inverted signal)



Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:



Each frequency used equally on the average by each transmitter.

According to Bluetooth Core Specification, Bluetooth receivers are designed to have input and IF bandwidths that match the hopping channel bandwidths of any Bluetooth transmitters and shift frequencies in synchronization with the transmitted signals.

Compliance for section 15.247(g)

According to Bluetooth Core Specification, the Bluetooth system transmits the packet with the pseudorandom hopping frequency with a continuous data and the short burst transmission from the Bluetooth system is also transmitted under the frequency hopping system with the pseudorandom hopping frequency system.

















Compliance for section 15.247(h)

According to Bluetooth Core specification, the Bluetooth system incorporates with an adaptive system to detect other user within the spectrum band so that it individually and independently to avoid hopping on the occupied channels.

According to the Bluetooth Core specification, the Bluetooth system is designed not have the ability to coordinated with other FHSS System in an effort to avoid the simultaneous occupancy of individual hopping frequencies by multiple transmitter.













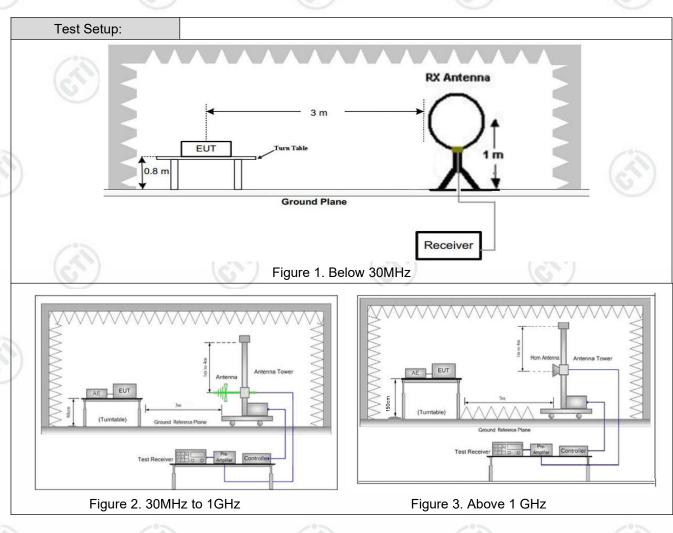


5.11 Radiated Spurious Emission & Restricted bands

Test Requirement:	47 CFR Part 15C Section	on 15.209 and 15	.205	13			
Test Method:	ANSI C63.10: 2013						
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)						
	Frequency	Detector	RBW	VBW	Remark		
	0.009MHz-0.090MHz	z Peak	10kHz	30kHz	Peak		
	0.009MHz-0.090MHz	z Average	10kHz	30kHz	Average		
	0.090MHz-0.110MH	z Quasi-peak	10kHz	30kHz	Quasi-peak		
Deseiver Cetury	0.110MHz-0.490MH	z Peak	10kHz	30kHz	Peak		
Receiver Setup:	0.110MHz-0.490MH	z Average	10kHz	30kHz	Average		
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak		
	30MHz-1GHz	Peak	100 kH	z 300kHz	Peak		
	Above 1CUz	Peak	1MHz	3MHz	Peak		
	Above 1GHz	Peak	1MHz	10kHz	Average		
	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)		
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300		
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30		
	1.705MHz-30MHz	30	-	-/3	30		
	30MHz-88MHz	100	40.0	Quasi-peak	3		
Limit:	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), Unless of emissions is 20dB applicable to the expeak emission lev	above the maxirequipment under	num permi test. This p	tted average	emission limit		











Test Procedure:	 a. 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 radiation. 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. 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 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. 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
Evaloratory Toot	Non-hopping transmitting mode with all kind of modulation and all kind of
Exploratory Test	data type.
Final Test Mode:	Through Pre-scan, find the DH5 of data type and GFSK modulation is the worst case. Pretest the EUT at Transmitting mode, For below 1GHz part, through prescan, the worst case is the lowest channel. Only the worst case is recorded in the report.
Test Results:	Pass
root results.	











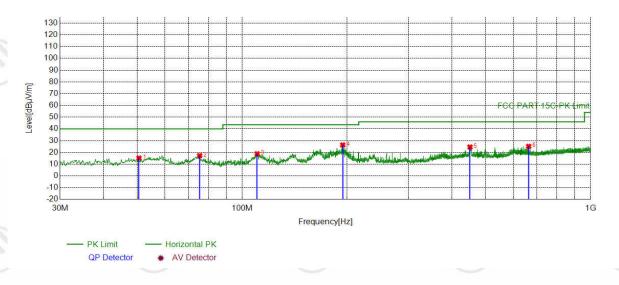


Radiated Spurious Emission below 1GHz:

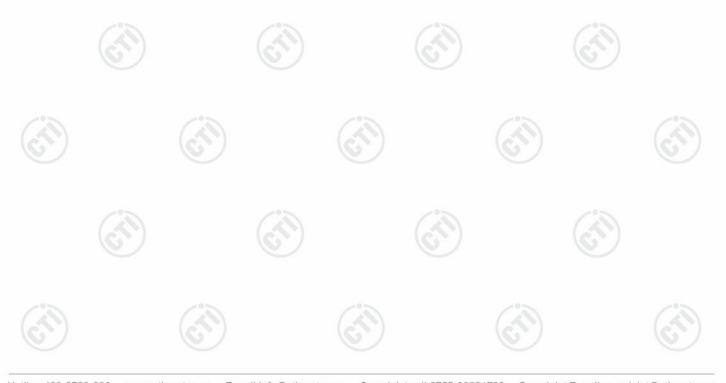
During the test, the Radiates Emission from 30MHz to 1GHz was performed in all modes, only the worst case lowest channel of DH5 for GFSK was recorded in the report.

Left ear:

Test Graph

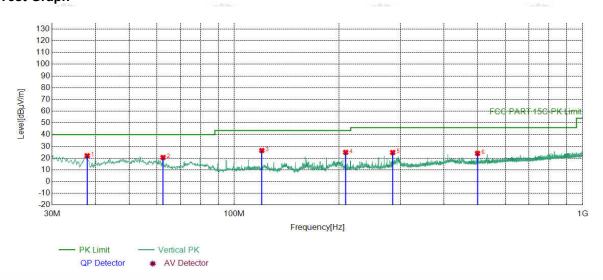


NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	50.5661	-17.25	32.44	15.19	40.00	24.81	PASS	Horizontal	Peak
2	75.4976	-21.77	39.02	17.25	40.00	22.75	PASS	Horizontal	Peak
3	110.4210	-18.45	37.26	18.81	43.50	24.69	PASS	Horizontal	Peak
4	194.3344	-18.37	44.72	26.35	43.50	17.15	PASS	Horizontal	Peak
5	450.6341	-11.72	36.35	24.63	46.00	21.37	PASS	Horizontal	Peak
6	664.0554	-8.10	33.29	25.19	46.00	20.81	PASS	Horizontal	Peak

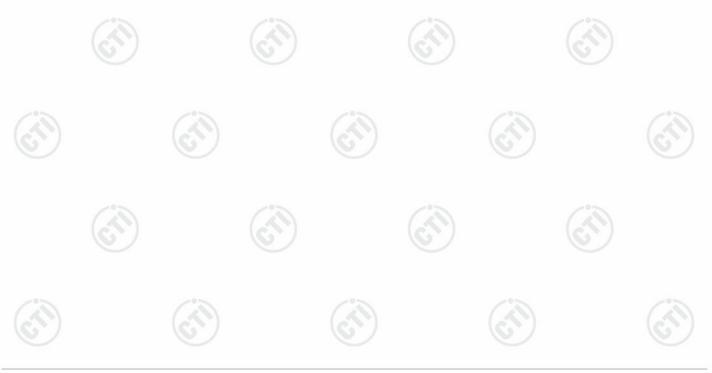






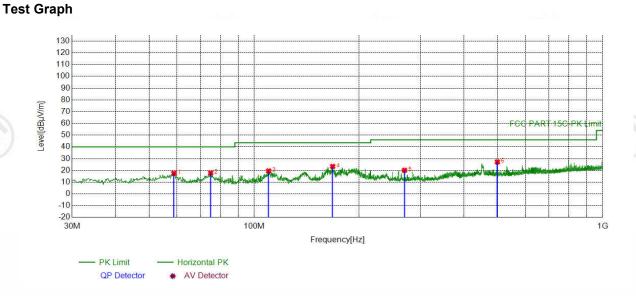


NO	Freq.	Factor [dB]	Reading [dBµV]	Level	Limit	Margin [dB]	Result	Polarity	Remark
1	37.8578	-18.70	40.78	22.08	40.00	17.92	PASS	Vertical	Peak
2	62.4983	-19.07	39.66	20.59	40.00	19.41	PASS	Vertical	Peak
3	120.0250	-20.08	46.59	26.51	43.50	16.99	PASS	Vertical	Peak
4	208.8859	-17.63	42.57	24.94	43.50	18.56	PASS	Vertical	Peak
5	285.0385	-15.83	40.66	24.83	46.00	21.17	PASS	Vertical	Peak
6	499.2359	-10.89	34.97	24.08	46.00	21.92	PASS	Vertical	Peak

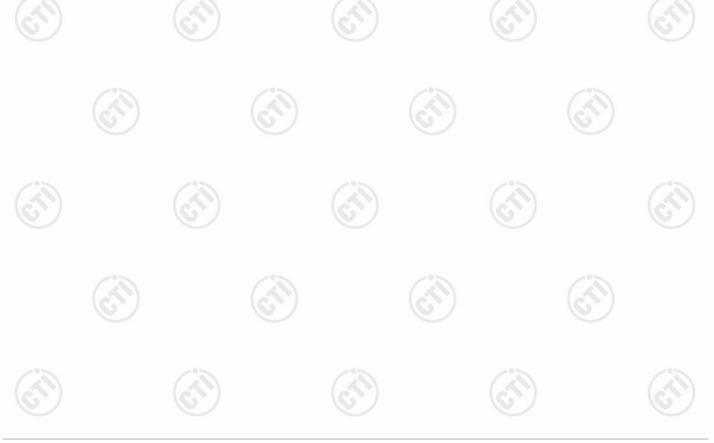




Right ear:

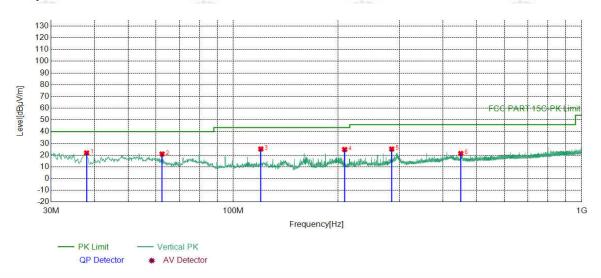


NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	58.8119	-18.33	35.88	17.55	40.00	22.45	PASS	Horizontal	Peak
2	75.0125	-21.68	39.53	17.85	40.00	22.15	PASS	Horizontal	Peak
3	110.0330	-18.39	37.94	19.55	43.50	23.95	PASS	Horizontal	Peak
4	167.9478	-20.60	44.00	23.40	43.50	20.10	PASS	Horizontal	Peak
5	270.0020	-16.15	36.26	20.11	46.00	25.89	PASS	Horizontal	Peak
6	498.8479	-10.90	38.12	27.22	46.00	18.78	PASS	Horizontal	Peak









	400	1.69 9 1			1.00		1.07			
	NO	Freq. [MHz]	Factor [dB]	Reading	Level	Limit	Margin [dB]	Result	Polarity	Remark
- 1		[1411 12]	[ab]	[GDHV]	[GDP V/III]	[GDP V/III]				
	1	37.9548	-18.67	40.52	21.85	40.00	18.15	PASS	Vertical	Peak
	2	62.4983	-19.07	40.05	20.98	40.00	19.02	PASS	Vertical	Peak
	3	120.0250	-20.08	45.34	25.26	43.50	18.24	PASS	Vertical	Peak
	4	208.8859	-17.63	42.45	24.82	43.50	18.68	PASS	Vertical	Peak
	5	285.0385	-15.83	41.05	25.22	46.00	20.78	PASS	Vertical	Peak
	6	449.9550	-11.73	33.16	21.43	46.00	24.57	PASS	Vertical	Peak
L										





Radiated Spurious Emission above 1GHz:

During the test, the Radiates Emission was performed in all modes, only the worst case left ear was recorded in the report:

	iii ale reperti			1.631 1.6			8.01		1 6 31	
	Mode	:		GFSK Transmi	tting		Channel:		2402 MHz	<u>z</u>
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
è	1	1305.0305	1.08	42.61	43.69	74.00	30.31	Pass	Н	PK
	2	1837.0837	3.56	41.45	45.01	74.00	28.99	Pass	Н	PK
	3	4804.1203	-16.23	69.72	53.49	74.00	20.51	Pass	Н	PK
	4	7206.2804	-11.83	64.02	52.19	74.00	21.81	Pass	Н	PK
	5	9608.4406	-7.37	55.16	47.79	74.00	26.21	Pass	Н	PK
	6	13681.7121	-1.74	51.49	49.75	74.00	24.25	Pass	Н	PK
	7	1293.4293	1.04	42.81	43.85	74.00	30.15	Pass	V	PK
	8	1821.4821	3.44	41.33	44.77	74.00	29.23	Pass	V	PK
	9	4804.1203	-16.23	69.02	52.79	74.00	21.21	Pass	V	PK
0	10	7206.2804	-11.83	64.43	52.60	74.00	21.40	Pass	V	PK
9	11	10324.4883	-6.42	52.52	46.10	74.00	27.90	Pass	V	PK
2	12	14383.7589	0.95	50.37	51.32	74.00	22.68	Pass	V	PK

	Mode	:		GFSK Transm	itting		Channel:		2441 MHz	
	NO	Freq. [MHz]	Factor	r Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	1190.2190	0.80	43.73	44.53	74.00	29.47	Pass	Н	PK
	2	1959.8960	4.34	41.92	46.26	74.00	27.74	Pass	Н	PK
2	3	4882.1255	-16.21	66.15	49.94	74.00	24.06	Pass	Н	PK
	4	7322.2882	-11.65	66.60	54.95	74.00	19.05	Pass	Н	PK
	5	7324.2883	-11.65	60.05	48.40	54.00	5.60	Pass	Н	AV
	6	9764.4510	-7.50	53.80	46.30	74.00	27.70	Pass	Н	PK
	7	14403.7603	1.17	49.37	50.54	74.00	23.46	Pass	Н	PK
	8	1262.4262	0.96	43.01	43.97	74.00	30.03	Pass	V	PK
	9	1983.2983	4.46	41.16	45.62	74.00	28.38	Pass	V	PK
	10	4882.1255	-16.21	67.45	51.24	74.00	22.76	Pass	V	PK
	11	7323.2882	-11.65	65.93	54.28	74.00	19.72	Pass	V	PK
0	12	7324.2883	-11.65	5 59.30	47.65	54.00	6.35	Pass	V	AV
9	13	10421.4948	-6.33	51.65	45.32	74.00	28.68	Pass	V	PK
2	14	14320.7547	-0.10	49.97	49.87	74.00	24.13	Pass	V	PK



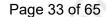




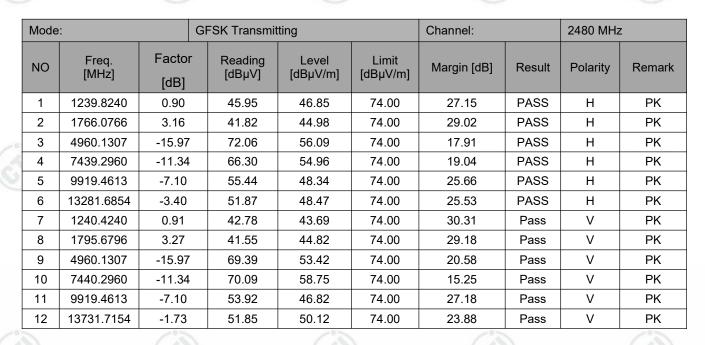




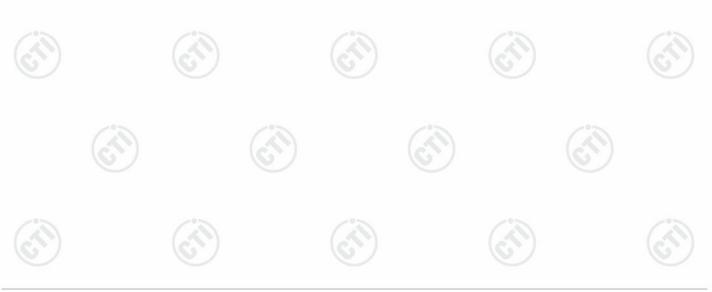


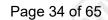






	Mode	:		π/4DQPSK Tra	ansmitting		Channel:		2402 MHz	
	NO	Freq. [MHz]	Facto	r Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	1267.8268	0.98	42.36	43.34	74.00	30.66	Pass	Н	PK
	2	1842.4842	3.60	41.49	45.09	74.00	28.91	Pass	Н	PK
	3	3603.0402	-20.36	61.60	41.24	74.00	32.76	Pass	Н	PK
	4	5855.1903	-13.59	55.48	41.89	74.00	32.11	Pass	Н	PK
	5	7870.3247	-11.05	5 53.01	41.96	74.00	32.04	Pass	Н	PK
<	6	12563.6376	-4.37	52.03	47.66	74.00	26.34	Pass	Н	PK
)	7	1249.8250	0.93	43.09	44.02	74.00	29.98	Pass	V	PK
	8	1791.6792	3.25	43.03	46.28	74.00	27.72	Pass	V	PK
	9	3603.0402	-20.36	62.45	42.09	74.00	31.91	Pass	V	PK
Ī	10	5760.1840	-13.71	57.52	43.81	74.00	30.19	Pass	V	PK
	11	9247.4165	-7.91	52.95	45.04	74.00	28.96	Pass	V	PK
Ī	12	12465.6310	-4.78	52.35	47.57	74.00	26.43	Pass	V	PK

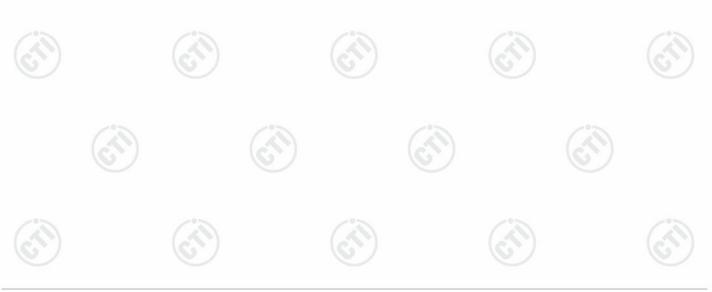






Mode	:		π/4DQPSK Tra	nsmitting		Channel:		2441 MHz	<u>z</u>
NO	Freq. [MHz]	Factor	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1310.6311	1.10	43.09	44.19	74.00	29.81	Pass	Н	PK
2	1933.2933	4.20	41.11	45.31	74.00	28.69	Pass	Н	PK
3	3662.0441	-20.09	61.92	41.83	74.00	32.17	Pass	Н	PK
4	6871.2581	-12.00	54.33	42.33	74.00	31.67	Pass	Н	PK
5	10998.5332	-6.16	54.17	48.01	74.00	25.99	Pass	Н	PK
6	13854.7236	-1.82	49.97	48.15	74.00	25.85	Pass	Н	PK
7	1198.8199	0.80	43.10	43.90	74.00	30.10	Pass	V	PK
8	1811.8812	3.37	41.78	45.15	74.00	28.85	Pass	V	PK
9	3662.0441	-20.09	61.93	41.84	74.00	32.16	Pass	V	PK
10	5760.1840	-13.71	57.35	43.64	74.00	30.36	Pass	V	PK
11	8715.3810	-10.04	52.63	42.59	74.00	31.41	Pass	V	PK
12	12959.6640	-4.17	51.58	47.41	74.00	26.59	Pass	V	PK

Mode	: :	7 2	π/4DQPSK Tra	nsmitting		Channel:	V.	2480 MHz	
NO	Freq. [MHz]	Facto	r Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1236.0236	0.89	42.63	43.52	74.00	30.48	Pass	Н	PK
2	1795.6796	3.27	42.24	45.51	74.00	28.49	Pass	Н	PK
3	3720.0480	-19.78	62.23	42.45	74.00	31.55	Pass	Н	PK
4	5213.1475	-14.53	55.44	40.91	74.00	33.09	Pass	Н	PK
5	7439.2960	-11.34	55.19	43.85	74.00	30.15	Pass	Н	PK
6	12528.6352	-4.62	52.38	47.76	74.00	26.24	Pass	Н	PK
7	1237.0237	0.90	42.50	43.40	74.00	30.60	Pass	V	PK
8	1870.6871	3.81	42.44	46.25	74.00	27.75	Pass	V	PK
9	3720.0480	-19.78	60.87	41.09	74.00	32.91	Pass	V	PK
10	5760.1840	-13.71	57.58	43.87	74.00	30.13	Pass	V	PK
11	8879.3920	-9.26	52.55	43.29	74.00	30.71	Pass	V	PK
12	12032.6022	-5.45	53.61	48.16	74.00	25.84	Pass	V	PK

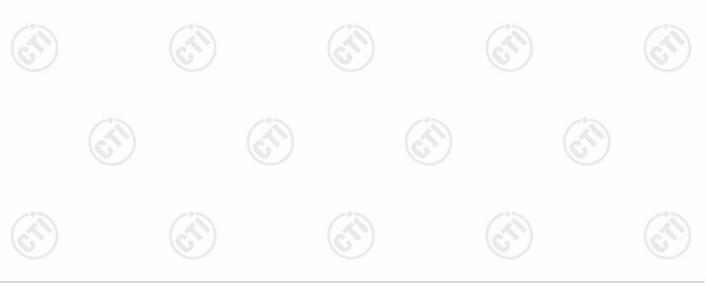






Mode	:		8DPSK Transm	nitting		Channel:		2402 MHz	7
NO	Freq. [MHz]	Factor	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1291.2291	1.04	42.91	43.95	74.00	30.05	Pass	Н	PK
2	1870.8871	3.81	41.35	45.16	74.00	28.84	Pass	Н	PK
3	4279.0853	-17.40	55.75	38.35	74.00	35.65	Pass	Н	PK
4	6099.2066	-13.15	54.54	41.39	74.00	32.61	Pass	Н	PK
5	8937.3958	-8.93	53.50	44.57	74.00	29.43	Pass	Н	PK
6	14402.7602	1.18	48.13	49.31	74.00	24.69	Pass	Н	PK
7	1248.2248	0.93	43.23	44.16	74.00	29.84	Pass	V	PK
8	1991.8992	4.51	44.62	49.13	74.00	24.87	Pass	V	PK
9	3191.0127	-20.37	62.42	42.05	74.00	31.95	Pass	V	PK
10	5760.1840	-13.71	57.25	43.54	74.00	30.46	Pass	V	PK
11	9281.4188	-7.94	52.96	45.02	74.00	28.98	Pass	V	PK
12	13925.7284	-1.82	49.63	47.81	74.00	26.19	Pass	V	PK

Mode	:		8DPSK Transm	nitting		Channel:		2441 MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1191.4191	0.80	43.42	44.22	74.00	29.78	Pass	Н	PK
2	1824.0824	3.46	41.88	45.34	74.00	28.66	Pass	Н	PK
3	3661.0441	-20.10	60.58	40.48	74.00	33.52	Pass	Н	PK
4	4882.1255	-16.21	59.63	43.42	74.00	30.58	Pass	Н	PK
5	7805.3204	-11.35	53.33	41.98	74.00	32.02	Pass	Н	PK
6	12526.6351	-4.64	52.29	47.65	74.00	26.35	Pass	Н	PK
7	1223.6224	0.86	43.14	44.00	74.00	30.00	Pass	V	PK
8	1658.6659	2.67	43.32	45.99	74.00	28.01	Pass	V	PK
9	3662.0441	-20.09	62.27	42.18	74.00	31.82	Pass	V	PK
10	4882.1255	-16.21	60.38	44.17	74.00	29.83	Pass	V	PK
11	7985.3324	-11.62	53.86	42.24	74.00	31.76	Pass	V	PK
12	12800.6534	-4.17	51.85	47.68	74.00	26.32	Pass	V	PK





Mode:			8DPSK Transmitting			Channel:		2480 MHz	
NO	Freq. [MHz]	Factor	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1223.2223	0.86	42.47	43.33	74.00	30.67	Pass	Н	PK
2	1867.2867	3.78	41.15	44.93	74.00	29.07	Pass	Н	PK
3	3719.0479	-19.79	61.77	41.98	74.00	32.02	Pass	Н	PK
4	4960.1307	-15.97	59.50	43.53	74.00	30.47	Pass	Н	PK
5	7416.2944	-11.44	55.25	43.81	74.00	30.19	Pass	Н	PK
6	11423.5616	-6.15	53.09	46.94	74.00	27.06	Pass	Н	PK
7	1193.4193	0.80	43.93	44.73	74.00	29.27	Pass	V	PK
8	1799.4799	3.28	44.42	47.70	74.00	26.30	Pass	V	PK
9	3719.0479	-19.79	62.75	42.96	74.00	31.04	Pass	V	PK
10	4959.1306	-15.98	60.78	44.80	74.00	29.20	Pass	V	PK
11	7937.3292	-11.22	53.04	41.82	74.00	32.18	Pass	V	PK
12	13339.6893	-3.19	51.43	48.24	74.00	25.76	Pass	V	PK

- 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 18GHz 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.



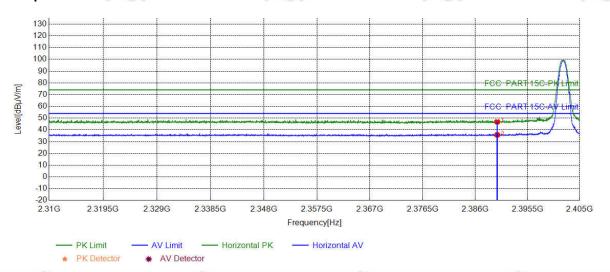




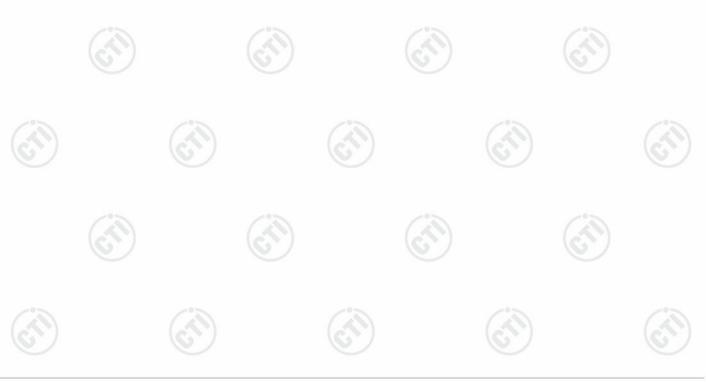
Restricted bands:

Test plot as follows:

Mode:	GFSK Transmitting	Channel:	2402 MHz
Remark:	Left ear		

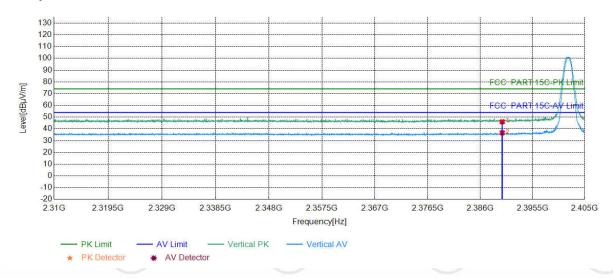


NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2390.0000	5.77	41.09	46.86	74.00	27.14	PASS	Horizontal	PK
2	2390.0000	5.77	30.01	35.78	54.00	18.22	PASS	Horizontal	AV

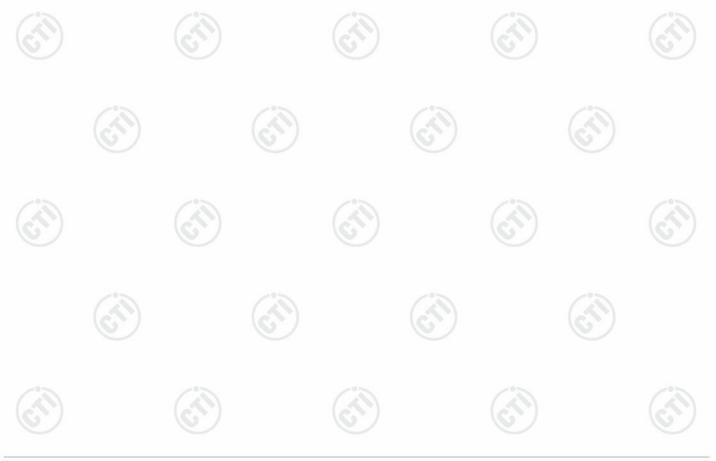






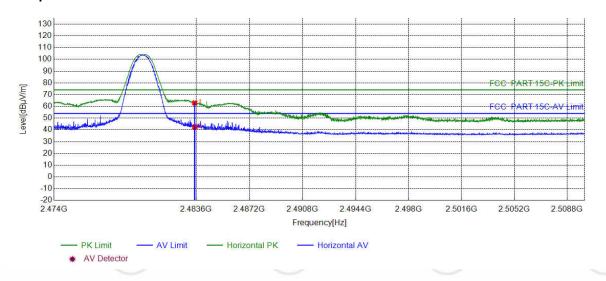


NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2390.0000	5.77	40.29	46.06	74.00	27.94	PASS	Vertical	PK
2	2390.0000	5.77	30.92	36.69	54.00	17.31	PASS	Vertical	AV

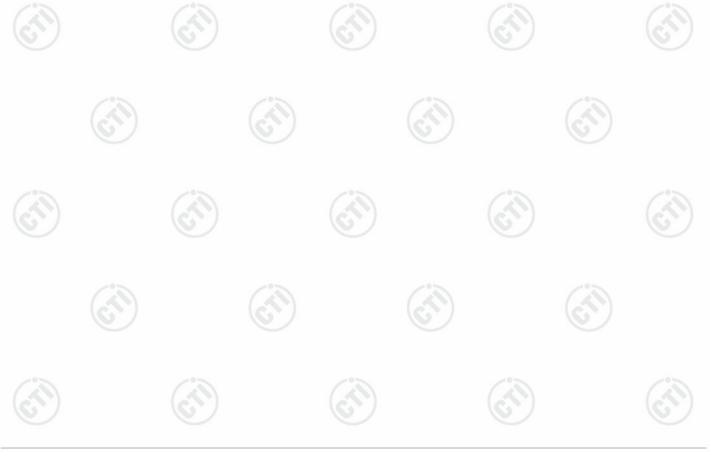






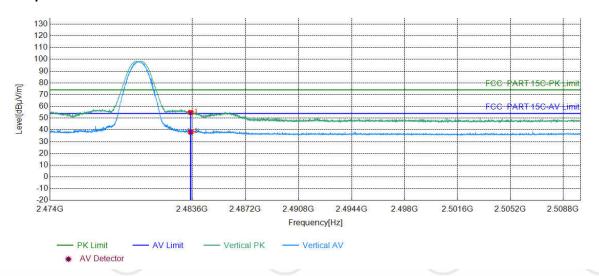


NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5000	6.57	56.37	62.94	74.00	11.06	PASS	Horizontal	PK
2	2483.5000	6.57	35.84	42.41	54.00	11.59	PASS	Horizontal	AV

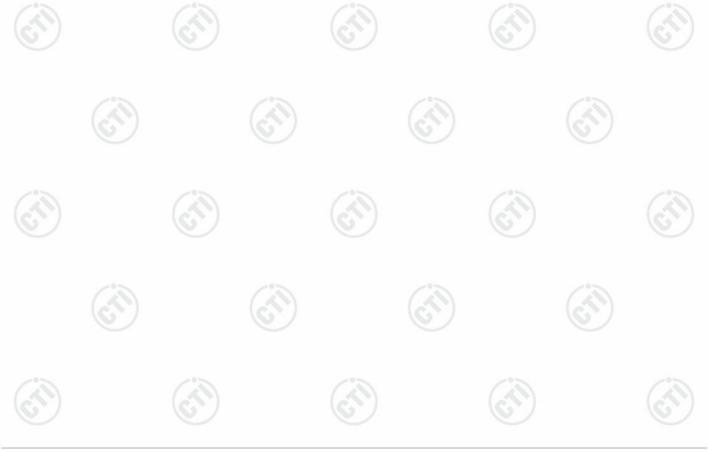




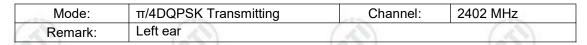


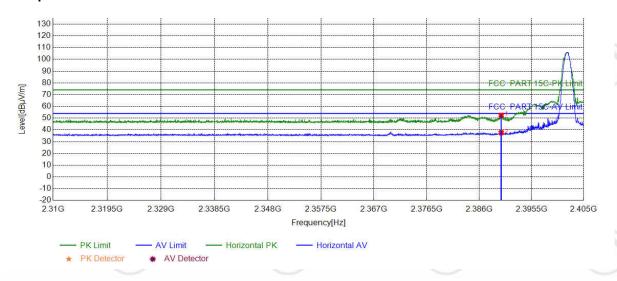


NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5000	6.57	48.30	54.87	74.00	19.13	PASS	Vertical	PK
2	2483.5000	6.57	31.64	38.21	54.00	15.79	PASS	Vertical	AV

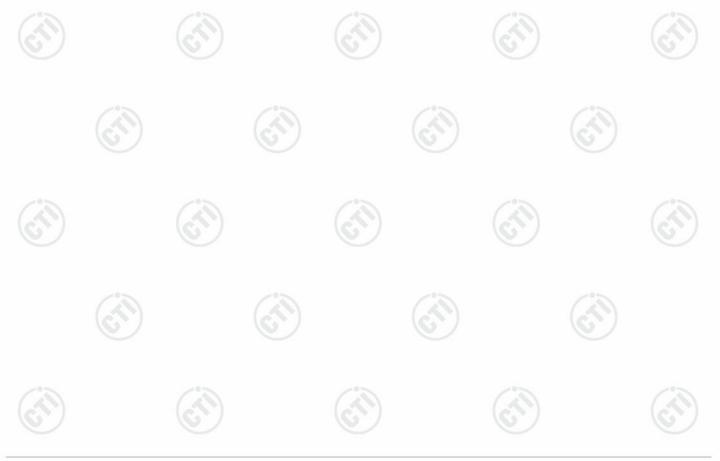




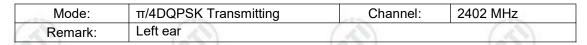


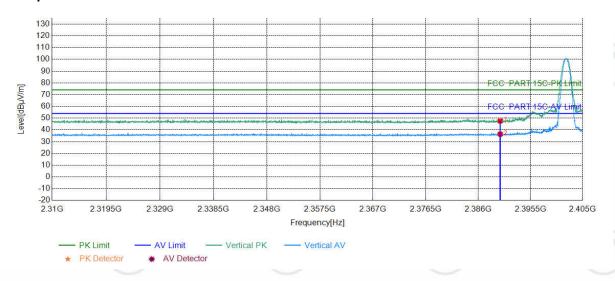


NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2390.0000	5.77	46.71	52.48	74.00	21.52	PASS	Horizontal	PK
2	2390.0000	5.77	31.86	37.63	54.00	16.37	PASS	Horizontal	AV

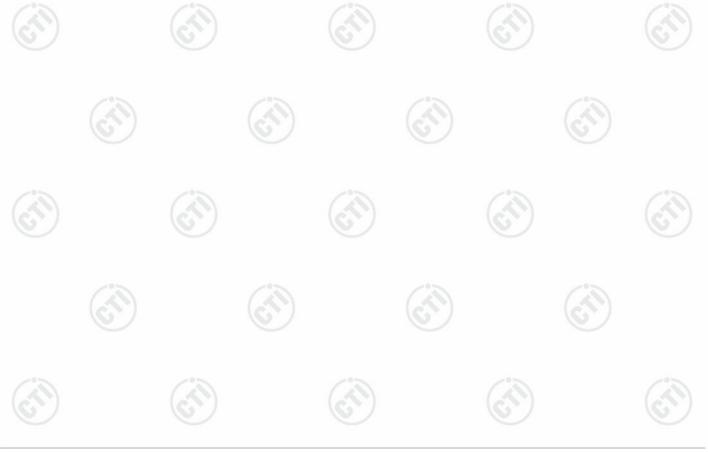




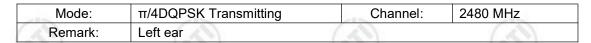


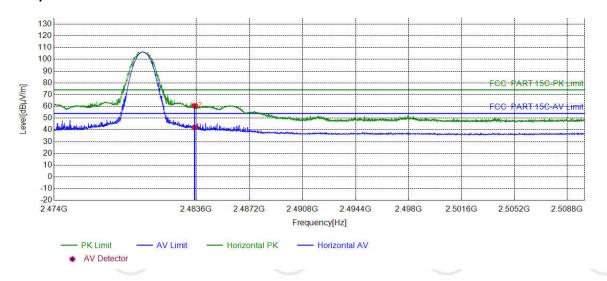


NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2390.0000	5.77	41.82	47.59	74.00	26.41	PASS	Vertical	PK
2	2390.0000	5.77	30.62	36.39	54.00	17.61	PASS	Vertical	AV

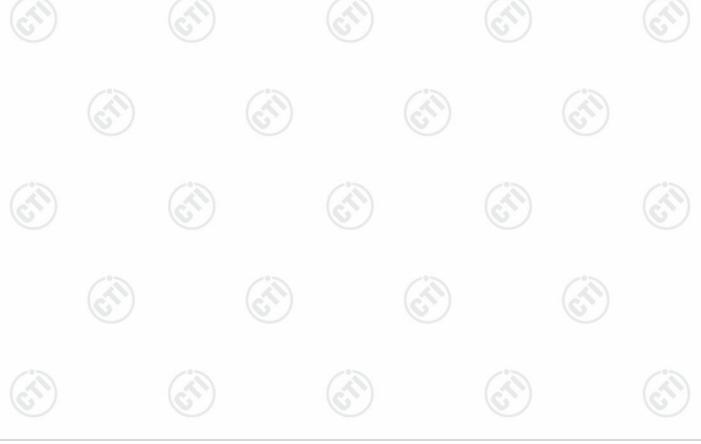




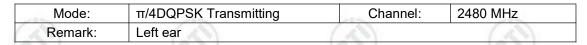


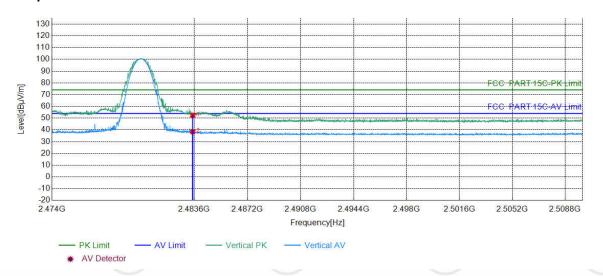


NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5000	6.57	35.55	42.12	54.00	11.88	PASS	Horizontal	PK
2	2483.5000	6.57	54.07	60.64	74.00	13.36	PASS	Horizontal	AV

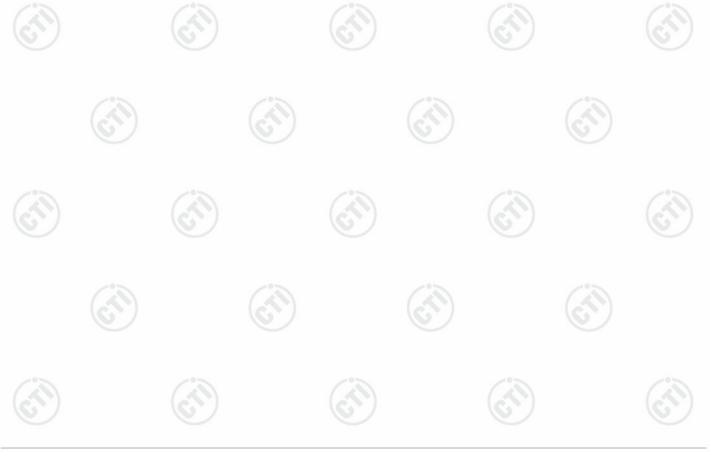






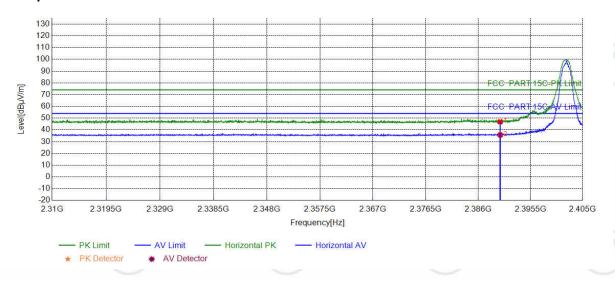


NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5000	6.57	45.82	52.39	74.00	21.61	PASS	Vertical	PK
2	2483.5000	6.57	31.90	38.47	54.00	15.53	PASS	Vertical	AV

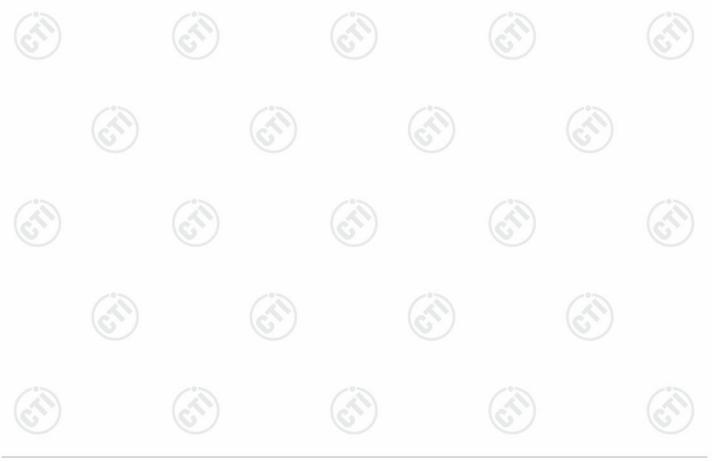






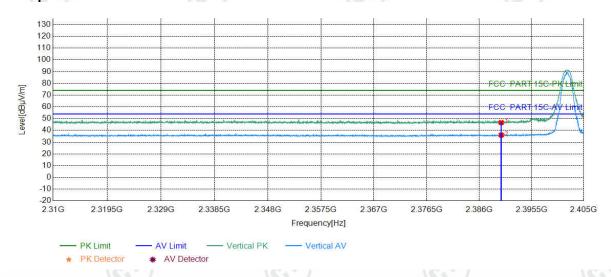


	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	2390.0000	5.77	41.15	46.92	74.00	27.08	PASS	Horizontal	PK
Ī	2	2390.0000	5.77	29.96	35.73	54.00	18.27	PASS	Horizontal	AV

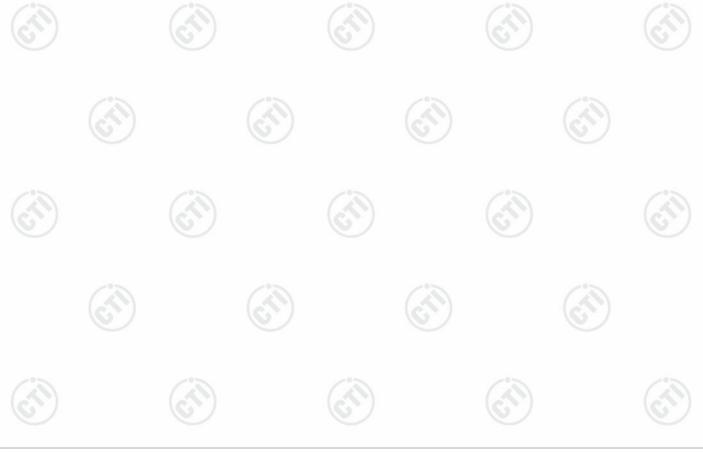






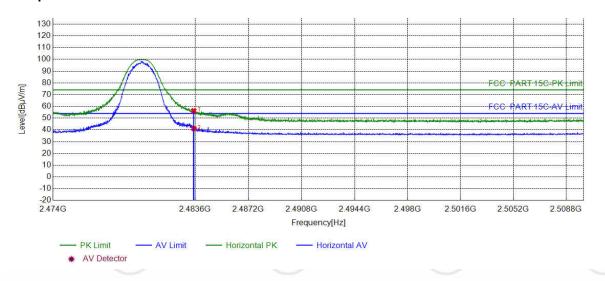


NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2390.0000	5.77	40.89	46.66	74.00	27.34	PASS	Vertical	PK
2	2390.0000	5.77	30.26	36.03	54.00	17.97	PASS	Vertical	AV

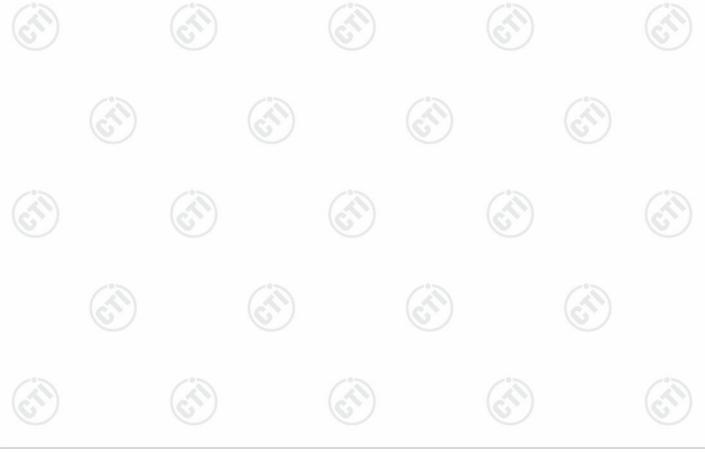






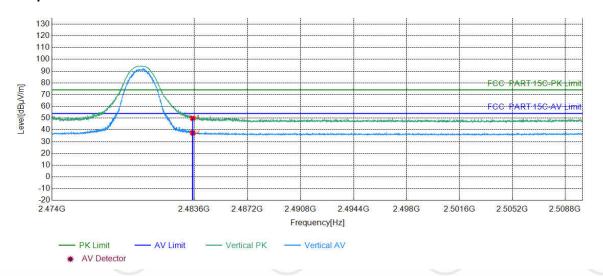


NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5000	6.57	49.73	56.30	74.00	17.70	PASS	Horizontal	PK
2	2483.5000	6.57	34.63	41.20	54.00	12.80	PASS	Horizontal	AV

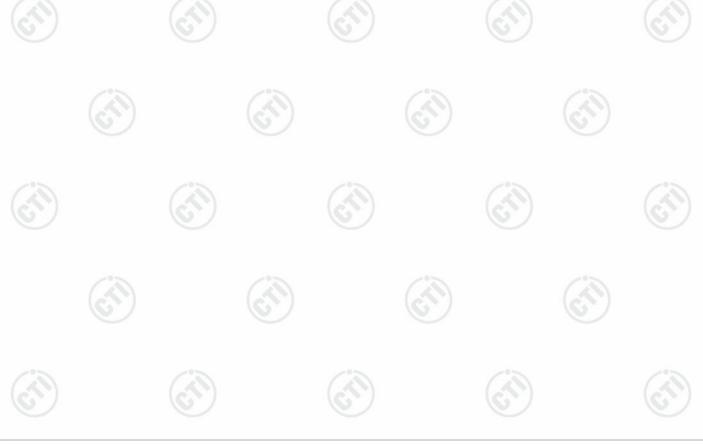






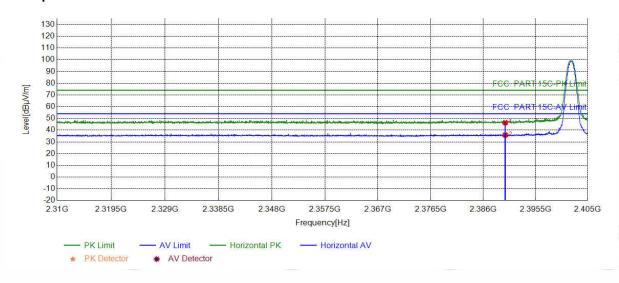


NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5000	6.57	43.38	49.95	74.00	24.05	PASS	Vertical	PK
2	2483.5000	6.57	30.88	37.45	54.00	16.55	PASS	Vertical	AV

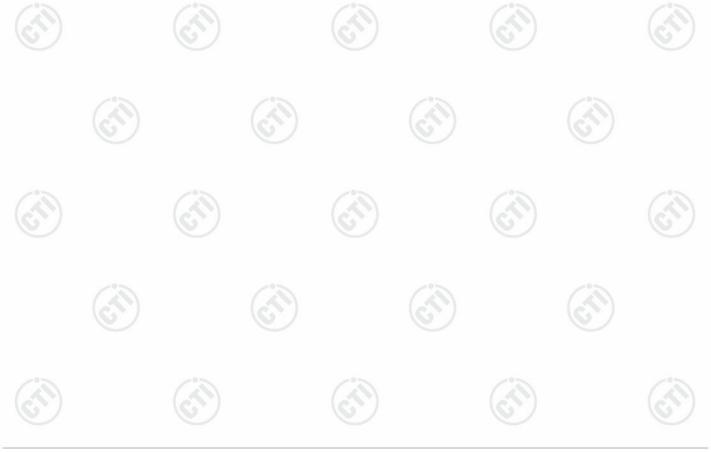






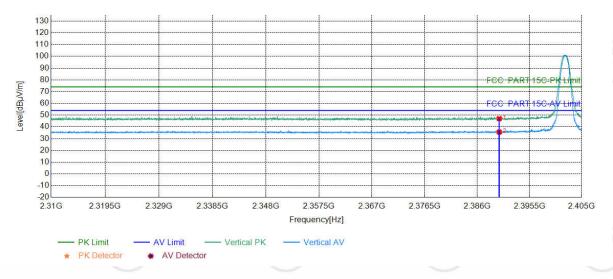


NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2390.0000	5.77	40.60	46.37	74.00	27.63	PASS	Horizontal	PK
2	2390.0000	5.77	30.02	35.79	54.00	18.21	PASS	Horizontal	AV

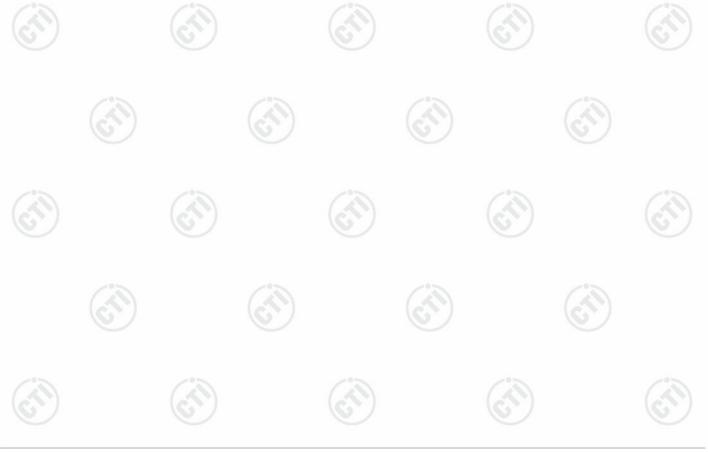






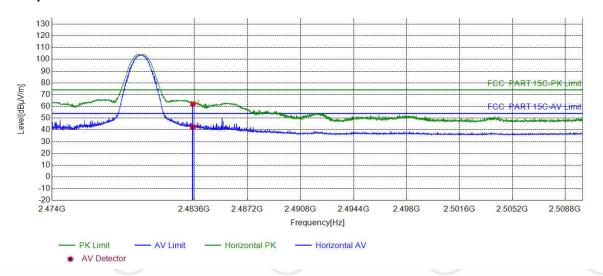


NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2390.0000	5.77	41.25	47.02	74.00	26.98	PASS	Vertical	PK
2	2390.0000	5.77	29.84	35.61	54.00	18.39	PASS	Vertical	AV

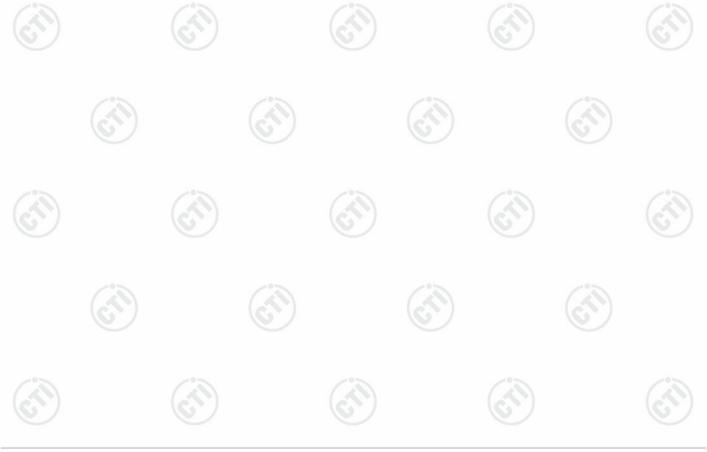






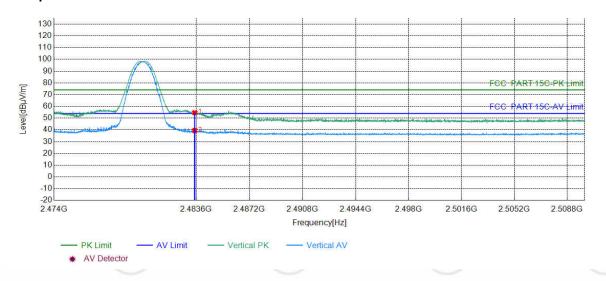


NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5000	6.57	55.61	62.18	74.00	11.82	PASS	Horizontal	PK
2	2483.5000	6.57	35.84	42.41	54.00	11.59	PASS	Horizontal	AV

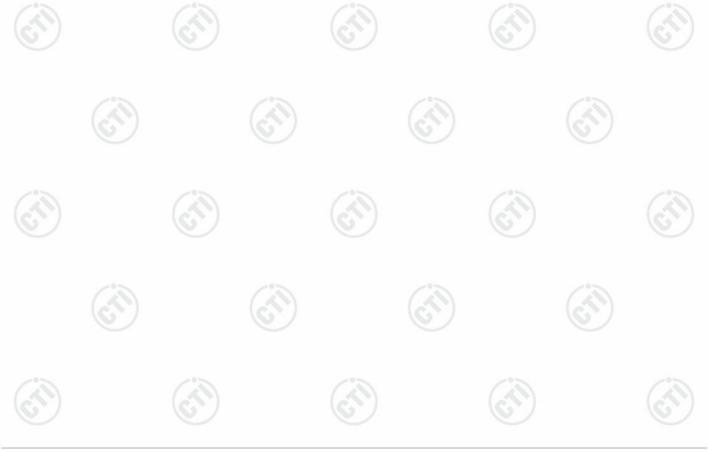




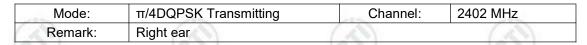


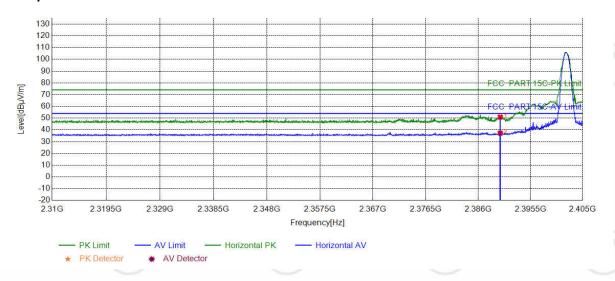


NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5000	6.57	48.09	54.66	74.00	19.34	PASS	Vertical	PK
2	2483.5000	6.57	32.92	39.49	54.00	14.51	PASS	Vertical	AV

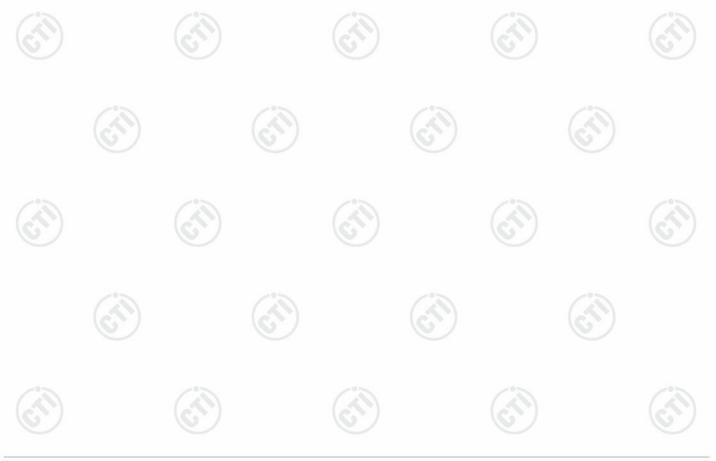




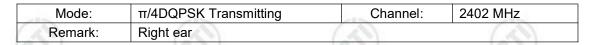


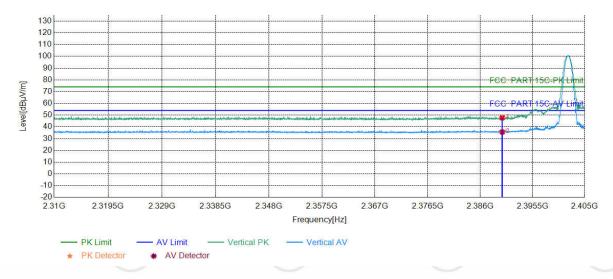


NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2390.0000	5.77	45.16	50.93	74.00	23.07	PASS	Horizontal	PK
2	2390.0000	5.77	31.43	37.20	54.00	16.80	PASS	Horizontal	AV

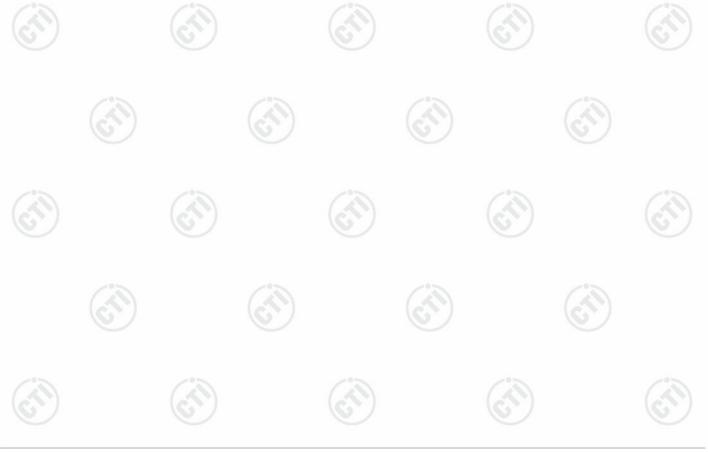




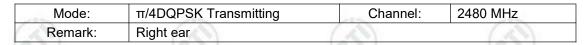


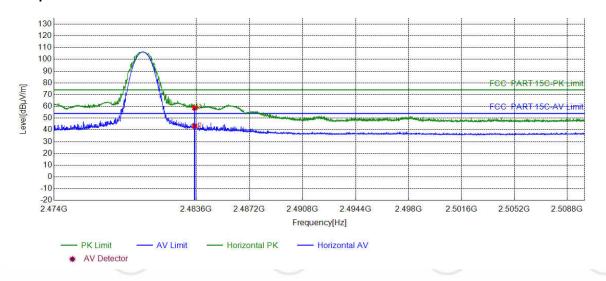


١	10	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	2390.0000	5.77	41.92	47.69	74.00	26.31	PASS	Vertical	PK
	2	2390.0000	5.77	29.91	35.68	54.00	18.32	PASS	Vertical	AV

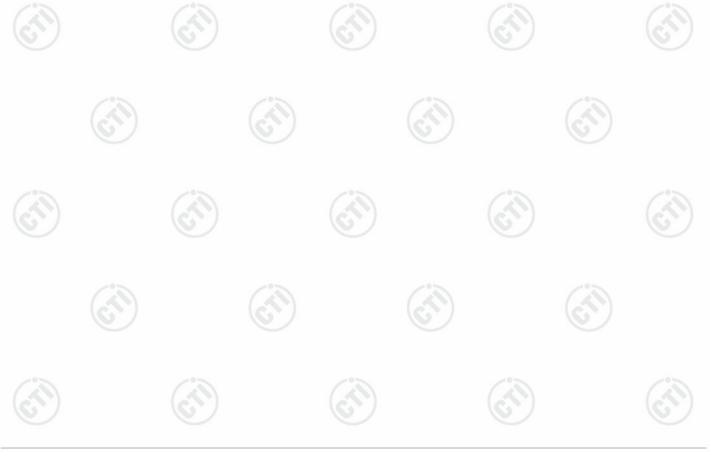




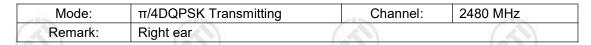


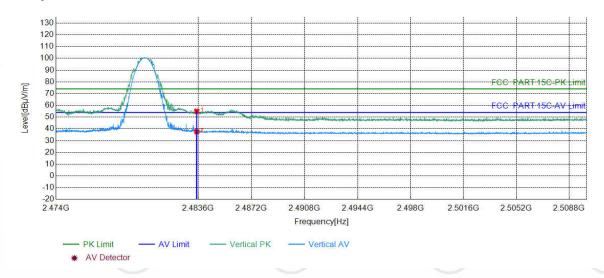


NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5000	6.57	52.12	58.69	74.00	15.31	PASS	Horizontal	PK
2	2483.5000	6.57	36.71	43.28	54.00	10.72	PASS	Horizontal	AV

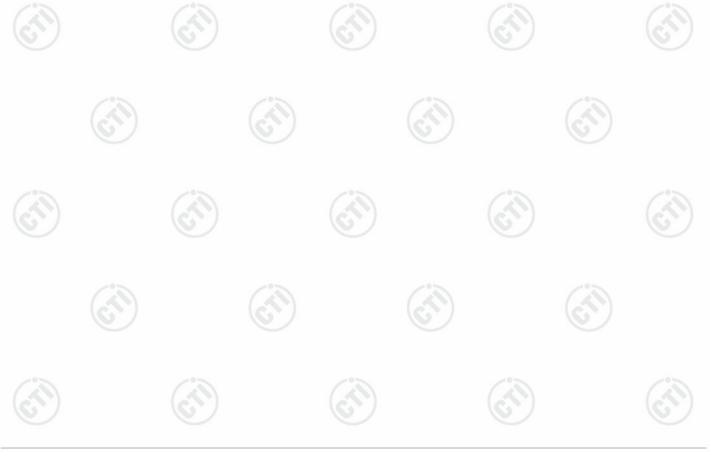






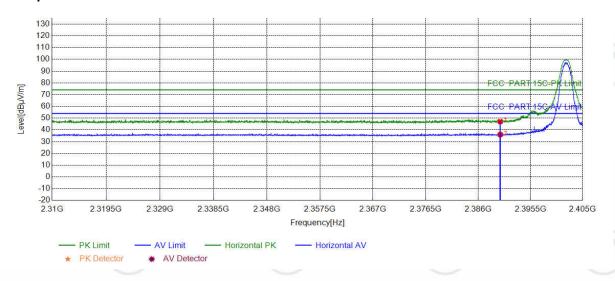


NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5000	6.57	48.54	55.11	74.00	18.89	PASS	Vertical	PK
2	2483.5000	6.57	31.12	37.69	54.00	16.31	PASS	Vertical	AV

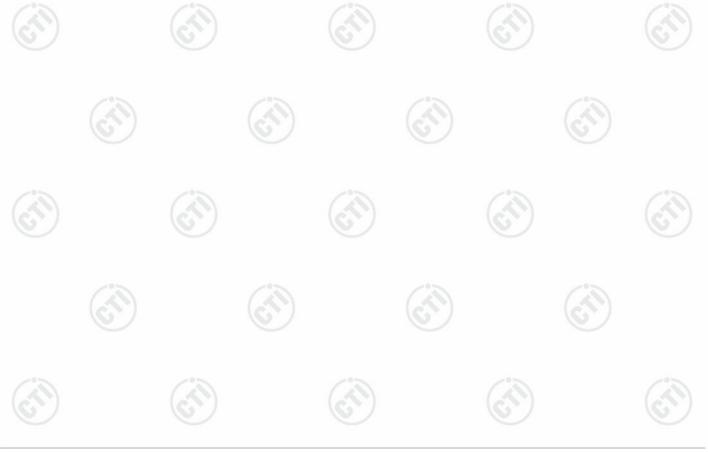






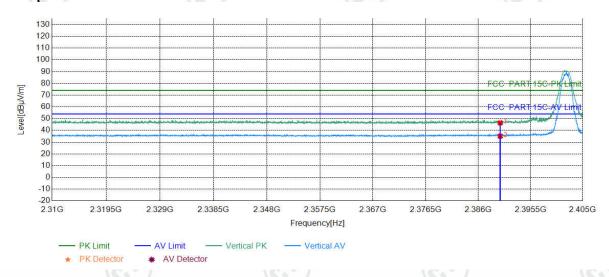


NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2390.0000	5.77	41.32	47.09	74.00	26.91	PASS	Horizontal	PK
2	2390.0000	5.77	30.27	36.04	54.00	17.96	PASS	Horizontal	AV

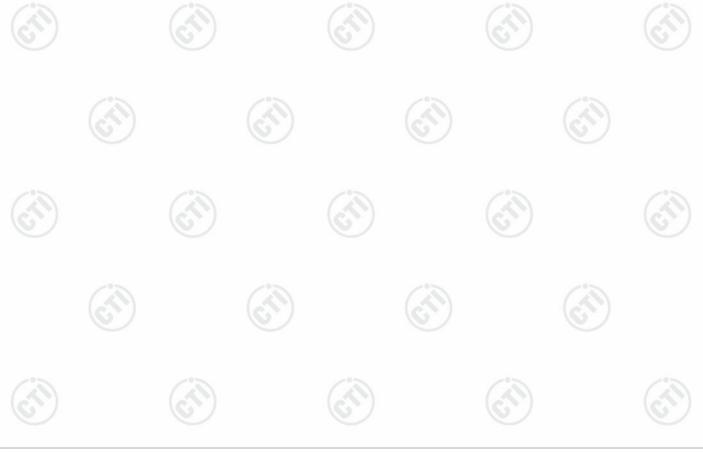






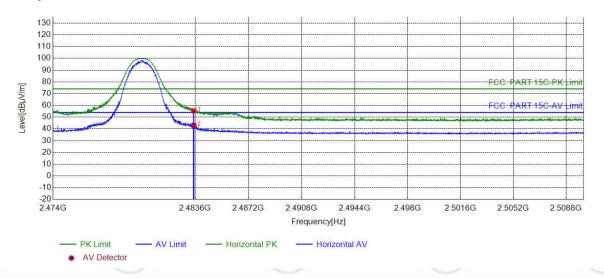


NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2390.0000	5.77	40.65	46.42	74.00	27.58	PASS	Vertical	PK
2	2390.0000	5.77	29.36	35.13	54.00	18.87	PASS	Vertical	AV

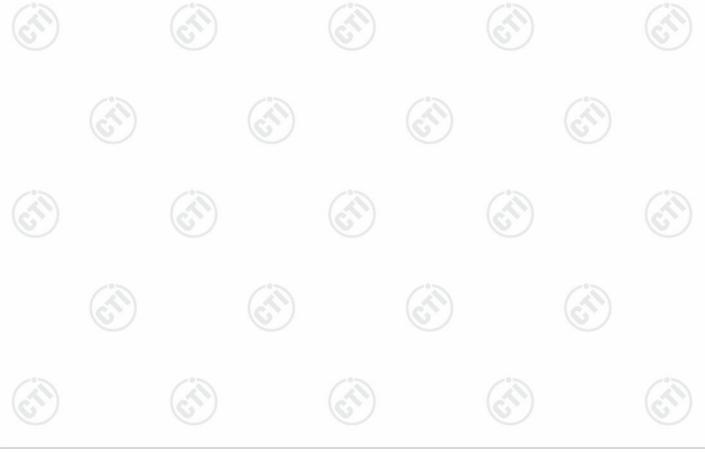






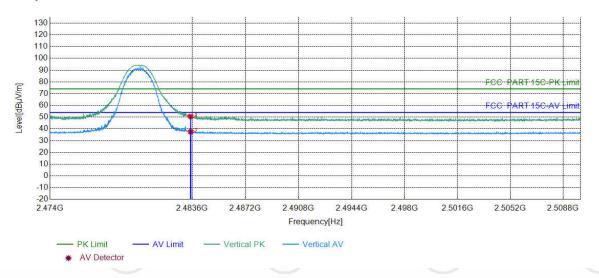


NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5000	6.57	48.83	55.40	74.00	18.60	PASS	Horizontal	PK
2	2483.5000	6.57	36.60	43.17	54.00	10.83	PASS	Horizontal	AV









NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5000	6.57	44.01	50.58	74.00	23.42	PASS	Vertical	PK
2	2483.5000	6.57	30.99	37.56	54.00	16.44	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









6 Appendix A

Refer to Appendix: Bluetooth Classic of EED32N81130402.























































































