

Report No: JYTSZB-R12-2100782

FCC REPORT (Bluetooth)

Applicant:	SKY PHONE LLC
Address of Applicant:	1348 Washington Av. Suite 350, Miami Beach, FL 33139
Equipment Under Test (E	EUT)
Product Name:	Tablet
Model No.:	Elite Octa
Trade mark:	SKY Devices
FCC ID:	2ABOSSKYELIOCTA
Applicable standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.247
Date of sample receipt:	10 May, 2021
Date of Test:	11 May, to 03 Jun., 2021
Date of report issued:	08 Jun., 2021
Test Result:	PASS *

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the JYT product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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2 Version

Version No.	Date	Description
00	08 Jun., 2021	Original

Janet Wei Test Engineer Winner Mang

Tested by:

Date: 08 Jun., 2021

Reviewed by:

Date: 08 Jun., 2021

Project Engineer

Project No.: JYTSZE2105040



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6.10.2 Radiated Emission Method		
8 EUT CONSTRUCTIONAL DETAILS	7 TEST SETUP PHOTO	
	8 EUT CONSTRUCTIONAL DETAILS	



4 Test Summary

Test Items	Section in CFR 47	Test Data	Result
Antenna Requirement	15.203 & 15.247 (b)	See Section 6.1	Pass
AC Power Line Conducted Emission	15.207	See Section 6.2	Pass
Conducted Peak Output Power	15.247 (b)(1)	Appendix A – BT	Pass
20dB Occupied Bandwidth	15.247 (a)(1)	Appendix A – BT	Pass
Carrier Frequencies Separation	15.247 (a)(1) Appendix A – BT		Pass
Hopping Channel Number	15.247 (a)(1)	Appendix A – BT	Pass
Dwell Time	15.247 (a)(1)	Appendix A – BT	Pass
Conducted Band Edge	45 005 8 45 000	Appendix A – BT	Pass
Radiated Band Edge	15.205 & 15.209	See Section 6.9.2	Pass
Conducted Spurious Emission		Appendix A – BT	Pass
Radiated Spurious Emission	15.247(d)	See Section 6.10.2	Pass
Remark:			

Pass: The EUT complies with the essential requirements in the standard. 1.

2. N/A: Not Applicable.

The cable insertion loss used by "RF Output Power" and other conduction measurement items is 0.5dB (provided by З. the customer).

Test Method:	ANSI C63.10-2013
rest method:	KDB 558074 D01 15.247 Meas Guidance v05r02



5 General Information

5.1 Client Information

Applicant:	SKY PHONE LLC
Address:	1348 Washington Av. Suite 350, Miami Beach, FL 33139
Manufacturer:	SKY PHONE LLC
Address:	1348 Washington Av. Suite 350, Miami Beach, FL 33139

5.2 General Description of E.U.T.

Product Name:	Tablet
Model No.:	Elite Octa
Operation Frequency:	2402MHz~2480MHz
Transfer rate:	1/2/3 Mbits/s
Number of channel:	79
Modulation type:	GFSK, π/4-DQPSK, 8DPSK
Modulation technology:	FHSS
Antenna Type:	Internal Antenna
Antenna gain:	0.5 dBi
Power supply:	Rechargeable Li-ion Battery DC3.7V, 4000mAh
AC adapter:	nput: AC100-240V, 50/60Hz, 0.3A
	Output: DC 5.0V, 1500mA
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

Operation Frequency each of channel for GFSK, π/4-DQPSK, 8DPSK Channel Frequency Channel Frequency Channel Frequency								
Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency		
2402MHz	20	2422MHz	40	2442MHz	60	2462MHz		
2403MHz	21	2423MHz	41	2443MHz	61	2463MHz		
2404MHz	22	2424MHz	42	2444MHz	62	2464MHz		
2405MHz	23	2425MHz	43	2445MHz	63	2465MHz		
2406MHz	24	2426MHz	44	2446MHz	64	2466MHz		
2407MHz	25	2427MHz	45	2447MHz	65	2467MHz		
2417MHz	35	2437MHz	55	2457MHz	75	2477MHz		
2418MHz	36	2438MHz	56	2458MHz	76	2478MHz		
2419MHz	37	2439MHz	57	2459MHz	77	2479MHz		
2420MHz	38	2440MHz	58	2460MHz	78	2480MHz		
19 2421MHz 39 2441MHz 59 2461MHz								
	2402MHz 2403MHz 2404MHz 2405MHz 2406MHz 2407MHz 2417MHz 2418MHz 2419MHz 2420MHz 2420MHz	2402MHz 20 2403MHz 21 2404MHz 22 2405MHz 23 2406MHz 23 2406MHz 24 2407MHz 25 2417MHz 35 2418MHz 36 2419MHz 37 2420MHz 38 2421MHz 39	2402MHz 20 2422MHz 2403MHz 21 2423MHz 2403MHz 21 2423MHz 2404MHz 22 2424MHz 2405MHz 23 2425MHz 2406MHz 24 2426MHz 2407MHz 25 2427MHz 2417MHz 35 2437MHz 2418MHz 36 2438MHz 2419MHz 37 2439MHz 2420MHz 38 2440MHz 2421MHz 39 2441MHz	2402MHz 20 2422MHz 40 2403MHz 21 2423MHz 41 2403MHz 21 2423MHz 41 2404MHz 22 2424MHz 42 2405MHz 23 2425MHz 43 2406MHz 24 2426MHz 44 2407MHz 25 2427MHz 45 2417MHz 35 2437MHz 55 2418MHz 36 2438MHz 56 2419MHz 37 2439MHz 57 2420MHz 38 2440MHz 58 2421MHz 39 2441MHz 59	2402MHz 20 2422MHz 40 2442MHz 2403MHz 21 2423MHz 41 2443MHz 2404MHz 22 2424MHz 42 2443MHz 2404MHz 22 2424MHz 42 2444MHz 2405MHz 23 2425MHz 43 2445MHz 2406MHz 24 2426MHz 44 2446MHz 2407MHz 25 2427MHz 45 2447MHz 2407MHz 25 2427MHz 45 2447MHz 2417MHz 35 2438MHz 56	2402MHz 20 2422MHz 40 2442MHz 60 2403MHz 21 2423MHz 41 2443MHz 61 2404MHz 22 2424MHz 42 2443MHz 61 2404MHz 22 2424MHz 42 2444MHz 62 2405MHz 23 2425MHz 43 2445MHz 63 2406MHz 24 2426MHz 44 2446MHz 64 2407MHz 25 2427MHz 45 2447MHz 65 2417MHz 35 2437MHz 55 2457MHz 75 2417MHz 35 2437MHz 55 2457MHz 75 2418MHz 36 2438MHz 56 2458MHz 76 2419MHz 37 2439MHz 57 2459MHz 77 2420MHz 38 2440MHz 58 2460MHz 78 2421MHz 39 2441MHz 59 2461MHz		



5.3 Test environment and mode

Operating Environment:				
Temperature:	24.0 °C			
Humidity:	54 % RH			
Atmospheric Pressure:	1010 mbar			
Test Modes:				
Non-hopping mode:	Keep the EUT in continuous transmitting mode with worst case data rate.			
Hopping mode:	Keep the EUT in hopping mode.			
Remark	GFSK (1 Mbps) is the worst case mode.			
Padiated Emission: The sample was placed 0.8m (below 1GHz)/1.5m (above 1GHz) above the ground plane				

Radiated Emission: The sample was placed 0.8m (below 1GHz)/1.5m (above 1GHz) above the ground plane of 3m chamber*. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

5.4 Description of Support Units

The EUT has been tested as an independent unit.

5.5 Measurement Uncertainty

Parameters	Expanded Uncertainty
Conducted Emission (9kHz ~ 30MHz)	±1.60 dB (k=2)
Radiated Emission (9kHz ~ 30MHz)	±3.12 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	±4.32 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	±5.16 dB (k=2)
Radiated Emission (18GHz ~ 40GHz)	±3.20 dB (k=2)

5.6 Additions to, deviations, or exclusions from the method

No

5.7 Laboratory Facility

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

• FCC - Designation No.: CN1211

JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

• ISED – CAB identifier.: CN0021

The 3m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

• A2LA - Registration No.: 4346.01

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: <u>https://portal.a2la.org/scopepdf/4346-01.pdf</u>

5.8 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd. Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China. Tel: +86-755-23118282, Fax: +86-755-23116366 Email: info-JYTee@lets.com, Website: <u>http://www.ccis-cb.com</u>



5.9 Test Instruments list

Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	ETS	9m*6m*6m	966	01-19-2021	01-18-2024
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-03-2021	03-02-2022
Biconical Antenna	SCHWARZBECK	VUBA9117	359	06-18-2020	06-17-2021
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-03-2021	03-02-2022
Horn Antenna	SCHWARZBECK	BBHA9120D	1805	06-18-2020	06-17-2021
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170582	11-18-2020	11-17-2021
EMI Test Software	AUDIX	E3	V	/ersion: 6.110919b)
Pre-amplifier	HP	8447D	2944A09358	03-03-2021	03-02-2022
Pre-amplifier	CD	PAP-1G18	11804	03-03-2021	03-02-2022
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-03-2021	03-02-2022
Spectrum analyzer	Rohde & Schwarz	FSP40	100363	11-18-2020	11-17-2021
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-03-2021	03-02-2022
Spectrum Analyzer	Agilent	N9020A	MY50510123	11-18-2020	11-17-2021
Signal Generator	Rohde & Schwarz	SMX	835454/016	03-03-2021	03-02-2022
Signal Generator	R&S	SMR20	1008100050	03-03-2021	03-02-2022
RF Switch Unit	MWRFTEST	MW200	N/A	N/A	N/A
Test Software	MWRFTEST	MTS8200	Version: 2.0.0.0		
Cable	ZDECL	Z108-NJ-NJ-81	1608458	03-03-2021	03-02-2022
Cable	MICRO-COAX	MFR64639	K10742-5	03-03-2021	03-02-2022
Cable	SUHNER	SUCOFLEX100	58193/4PE	03-03-2021	03-02-2022
DC Power Supply	XinNuoEr	WYK-10020K	1409050110020	09-25-2020	09-24-2021
Temperature Humidity Chamber	HengPu	HPGDS-500	20140828008	11-01-2020	10-31-2021
Simulated Station	Rohde & Schwarz	CMW500	140493	07-22-2020	07-21-2021
10m SAC	ETS	RFSD-100-F/A	Q2005	03-31-2021	04-01-2024
BiConiLog Antenna	SCHWARZBECK	VULB 9168	1249	03-31-2021	04-01-2022
BiConiLog Antenna	SCHWARZBECK	VULB 9168	1250	03-31-2021	04-01-2022
EMI Test Receiver	R&S	ESR 3	102800	04-06-2021	04-07-2022
EMI Test Receiver	R&S	ESR 3	102802	04-06-2021	04-07-2022
Pre-amplifier	Bost	LNA 0920N	2016	04-06-2021	04-07-2022
Pre-amplifier	Bost	LNA 0920N	2019	04-06-2021	04-07-2022
Test Software	R&S	EMC32	· · · · · · · · · · · · · · · · · · ·	Version: 10.50.40	

Conducted Emission:							
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due date		
				(mm-dd-yy)	(mm-dd-yy)		
EMI Test Receiver	Rohde & Schwarz	ESCI	101189	03-03-2021	03-02-2022		
Pulse Limiter	SCHWARZBECK	OSRAM 2306	9731	03-03-2021	03-02-2022		
LISN	CHASE	MN2050D	1447	03-03-2021	03-02-2022		
LISN	Rohde & Schwarz	ESH3-Z5	8438621/010	06-18-2020	06-17-2021		
Cable	HP	10503A	N/A	03-03-2021	03-02-2022		
EMI Test Software	AUDIX	E3	Version: 6.110919b				

Conducted method:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
Spectrum Analyzer	Keysight	N9010B	MY60240202	11-27-2020	11-26-2021
Vector Signal Generator	Keysight	N5182B	MY59101009	11-27-2020	11-26-2021
Analog Signal Generator	Keysight	N5173B	MY59100765	11-27-2020	11-26-2021
Power Detector Box	MWRF-test	MW100-PSB	MW201020JYT	11-27-2020	11-26-2021
Simulated Station	Rohde & Schwarz	CMW270	102335	11-27-2020	11-26-2021
RF Control Box	MWRF-test	MW100-RFCB	MW200927JYT	N/A	N/A

JianYan Testing Group Shenzhen Co., Ltd. No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China. Telephone: +86 (0) 755 23118282 Fax: +86 (0) 755 23116366

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PDU	MWRF-test	XY-G10	N/A	N/A	N/A	
Test Software	MWRF-tes	MTS 8310	Version: 2.0.0.0			
DC Power Supply	Keysight	E3642A	MY60296194	11-27-2020	11-26-2021	

6 Test results and measurement data

6.1 Antenna Requirement

Standard requirement:	FCC Part 15 C Section 15.203 & 247(b)
responsible party shall be us antenna that uses a unique so that a broken antenna ca electrical connector is prohil 15.247(b) (4) requirement: (4) The conducted output po antennas with directional ga section, if transmitting anter power from the intentional ra	be designed to ensure that no antenna other than that furnished by the sed with the device. The use of a permanently attached antenna or of an coupling to the intentional radiator, the manufacturer may design the unit in be replaced by the user, but the use of a standard antenna jack or bited. be the use of a standard antenna jack or bited. be the use of direction is based on the use of this that do not exceed 6 dBi. Except as shown in paragraph (c) of this anas of directional gain greater than 6 dBi are used, the conducted output adiator shall be reduced below the stated values in paragraphs (b)(1), tion, as appropriate, by the amount in dB that the directional gain of the
E.U.T Antenna:	
The Bluetooth antenna is an the antenna is 0.5 dBi.	Internal antenna which permanently attached, and the best case gain of



6.2 Conducted Emissions

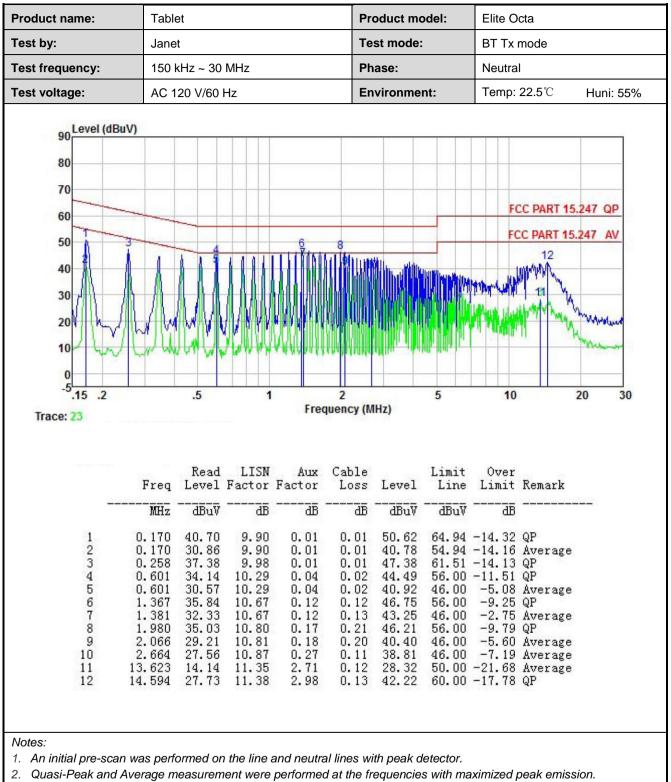
Test Requirement:	FCC Part 15 C Section 15.	207					
Test Frequency Range:	150 kHz to 30 MHz						
Class / Severity:	Class B						
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto						
Limit:	Frequency range (MHz)	Limit (c	dBuV)				
		Quasi-peak	Average				
	0.15-0.5	66 to 56*	56 to 46*				
	0.5-5	56	46				
	5-30	60	50				
	* Decreases with the logari	thm of the frequency.					
Test setup:	Reference P	ane					
	AUX Equipment E.U.T Test table/Insulation plane Remark E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Networ Test table height=0.8m						
Test procedure:	 50ohm/50uH coupling ir 2. The peripheral devices a LISN that provides a 50 termination. (Please reference) 3. Both sides of A.C. line interference. In order to positions of equipment 	tion network (L.I.S.N.). Th npedance for the measuri	is provides a ng equipment. main power through a lance with 500hm the test setup and n conducted sion, the relative ables must be changed				
Test Instruments:	Refer to section 5.9 for det	ails					
Test mode:	Hopping mode						
Test results:	Pass						



Measurement Data:

	Tabl	Tablet				Product model:			Elite Octa			
ſest by:	Jane	et			Т	Test mode: BT Tx mode						
Test frequency:	150	kHz ~ 30	MHz		Р	hase:		Line				
Fest voltage:	AC 1	120 V/60	Hz		E	nvironm	ent:	Temp	o: 22.5℃	Huni: 55%		
80 70 60 50 40 30 20 10				5					FCC PART 15	1000		
15 .2		.5	1		2 equency (MHz)	5	1	0	20 30		
⁻⁵ .15 .2 Trace: 21	Freq	Read		Fre	_	MHz) Level	5 Limit Line	Over	0 Remark	20 30		
15 .2	Freq MHz	Read	LISN	Fre	equency() Cable		Limit	Over		20 30		





3. Final Level = Receiver Read level + LISN Factor + Aux Factor + Cable Loss.

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0.5 Conducted Out	
Test Requirement:	FCC Part 15 C Section 15.247 (b)(1)
Receiver setup:	RBW=1MHz, VBW=3MHz, Detector=Peak (If 20dB BW ≤1 MHz) RBW=2MHz, VBW=6MHz, Detector=Peak (If 20dB BW > 1 MHz and < 3MHz)
Limit:	For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.
Test setup:	
Test Instruments:	Refer to section 5.9 for details
Test mode:	Non-hopping mode
Test results:	Pass
Measurement Data:	Refer to Appendix A - BT

6.3 Conducted Output Power

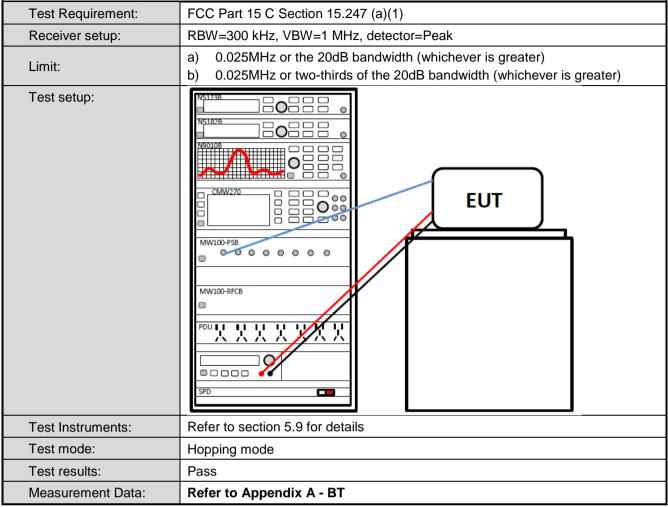


6.4 20dB Occupy Bandwidth

Test Requirement:	FCC Part 15 C Section 15.247 (a)(1)
Receiver setup:	DH1: RBW=15 kHz, VBW=47 kHz, detector=Peak 2DH1&3DH: RBW=20 kHz, VBW=62 kHz, detector=Peak
Limit:	Within authorization band
Test setup:	
Test Instruments:	Refer to section 5.9 for details
Test mode:	Non-hopping mode
Test results:	Pass
Measurement Data:	Refer to Appendix A - BT



6.5 Carrier Frequencies Separation



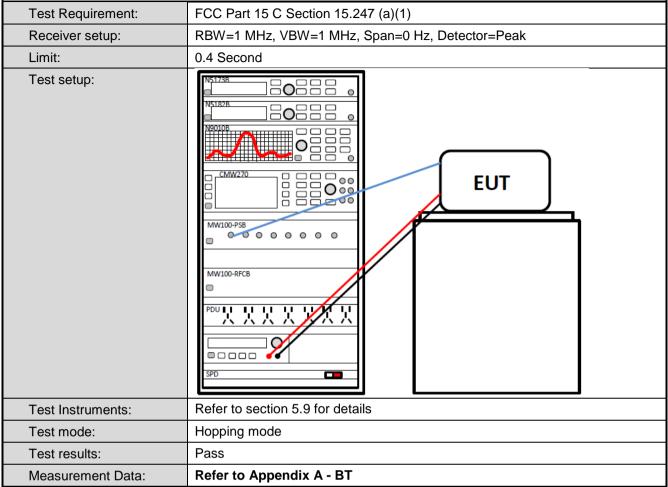


6.6 Hopping Channel Number

Test Requirement:	FCC Part 15 C Section 15.247 (a)(1)
Receiver setup:	RBW=100 kHz, VBW=300 kHz, Center Frequency=2441MHz, Frequency Range: 2400MHz~2483.5MHz, Detector=Peak
Limit:	15 channels
Test setup:	
Test Instruments:	Refer to section 5.9 for details
Test mode:	Hopping mode
Test results:	Pass
Measurement Data:	Refer to Appendix A - BT

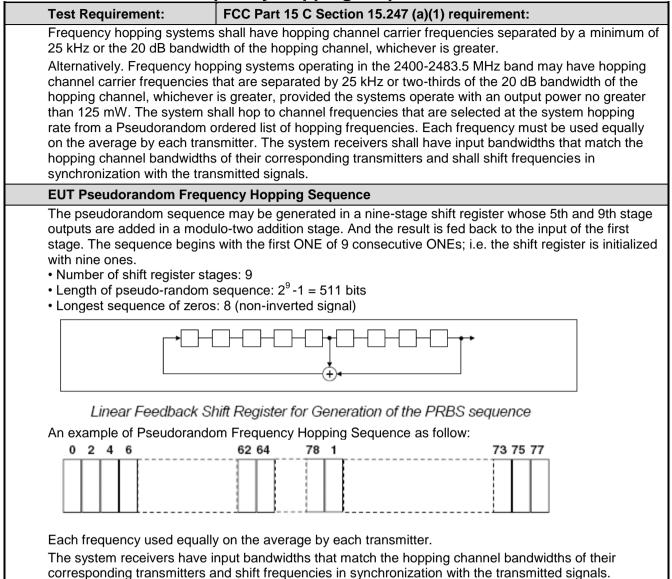


6.7 Dwell Time





6.8 Pseudorandom Frequency Hopping Sequence





6.9 Band Edge

6.9.1 Conducted Emission Method

Test Requirement:	FCC Part 15 C Section 15.247 (d)
Receiver setup:	RBW=100 kHz, VBW=300 kHz, Detector=Peak
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 setup:	
Test Instruments:	Refer to section 5.9 for details
Test mode:	Non-hopping mode and hopping mode
Test results:	Pass
Measurement Data:	Refer to Appendix A - BT



6.9.2 Radiated Emission Method

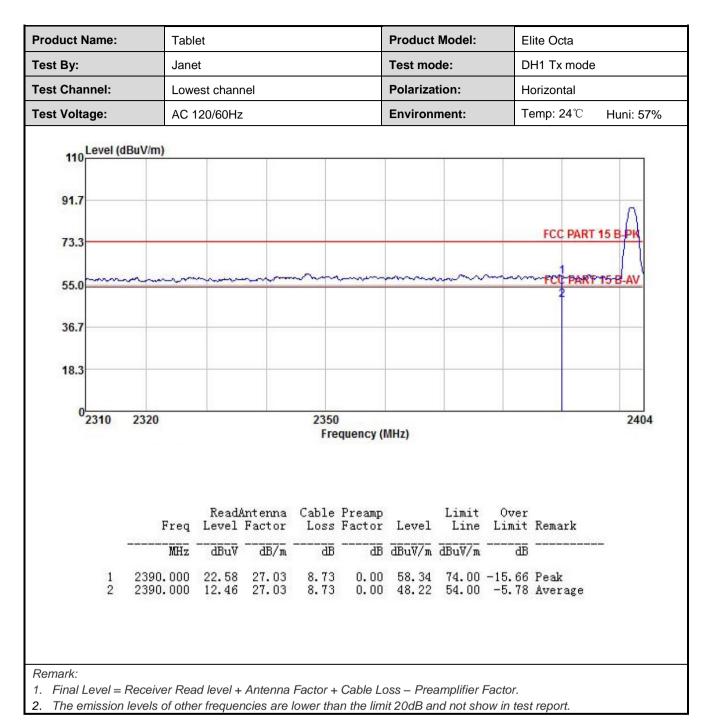
Test Requirement:	FCC Part 15 C Section 15.209 and 15.205						
Test Frequency Range:	2310 MHz to 23	90 MHz and	d 248	83.5 MHz to 2	500 M	lHz	
Test Distance:	3m						
Receiver setup:	Frequency	Detector	r	RBW	V	BW	Remark
	Above 1GHz	Peak		1MHz	31	MHz	Peak Value
	Above IGH2	RMS		1MHz	31	MHz	Average Value
Limit:	Frequenc	су	Lim	it (dBuV/m @3	3m)		Remark
	Above 1G	H7		54.00		Av	verage Value
	7,6070 10			74.00		F	Peak Value
Test setup:		EUT Itable) Groun Test Receiver	3m nd Referen		ienna Towe		
Test Procedure:	 determine the 2. The EUT was antenna, whi tower. 3. The antenna ground to de horizontal an measurement 4. For each sus and then the the rota table maximum reations 5. The test-rece Bandwidth w 6. If the emission limit specified EUT would b margin would 	A meter camb e position of s set 3 meter ch was mout height is van termine the r d vertical po t. spected emis antenna was a was turned ading. eiver system ith Maximum on level of the d, then testin pe reported. O	ber. the rrs a ntec ried max blariz ssior s tun fror was n Ho e EL ng cc Othe d or	The table was highest radiation way from the in a on the top of from one meter imum value of cations of the a h, the EUT was ned to heights n 0 degrees to s set to Peak E old Mode. JT in peak mo- puld be stoppe	s rotation. Interfe a vari er to fo the fi antenr s arran from 0 360 o Detect de wa d and ssions g peal	ed 360 or rence-re able-he our meta eld strein a are s nged to 1 meter degrees Function as 10dB I the pea s that dia k, quasi	degrees to eceiving ight antenna ers above the ngth. Both et to make the its worst case to 4 meters and to find the on and Specified lower than the ak values of the d not have 10dB -peak or
Test Instruments:	Refer to section	5.9 for deta	ils				
Test mode:	Non-hopping m	ode					
Test results:	Passed						



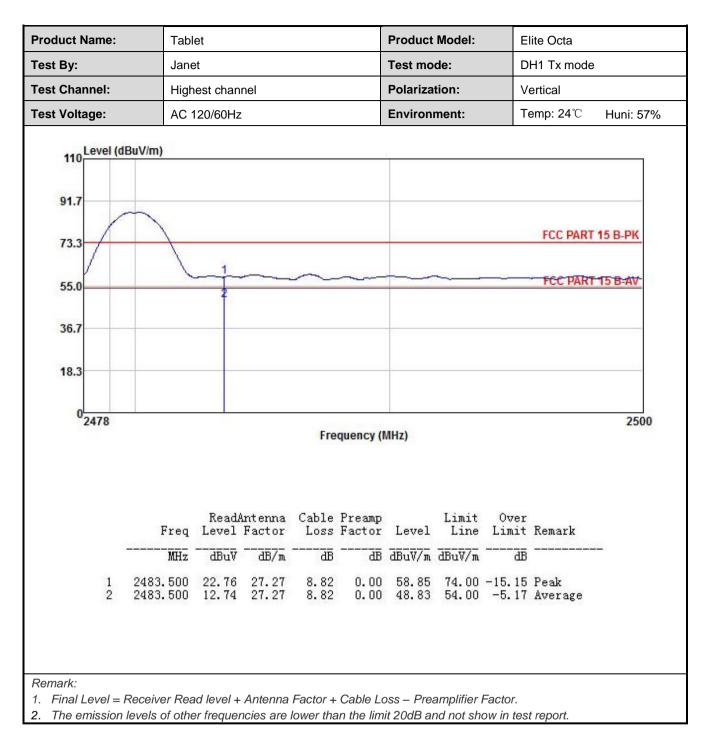
GFSK Mode:

	Tubh	Tablet					Model:	Eli	Elite Octa		
est By:	Jane	Janet				Test mo	de:	Dł	DH1 Tx mode		
est Channel:	Lowe	est channe	el			Polariza	tion:	Ve	ertical		
est Voltage:	AC 1	20/60Hz				Environ	ment:	Те	mp: 24 ℃	Huni: 57%	
110 Level (dB	uV/m)										
91.7										0	
									FCC PART	15 B-PK	
73.3									10011111	11	
55.0	man	mm	mm	~~~~		~~~~~	m		FCO PART	15-8-AV	
									2		
36.7											
18.3											
10.5											
02310	2320			2350					-	2404	
2010	2020				quency (N	IHz)				2.01	
		ReadA	ntenna	Cable	Preamp		Limit	Over			
	Freq	Level H	Factor	Loss	Factor	Level			Remark		
	MHz	dBu∛	dB/m	dB	dB	dBuV/m	dBuV/m	dB			
1	2390.000 2390.000	21.40 11.04	27.03 27.03					-16.84	Peak Average		
	777832220733	2009075	799925								











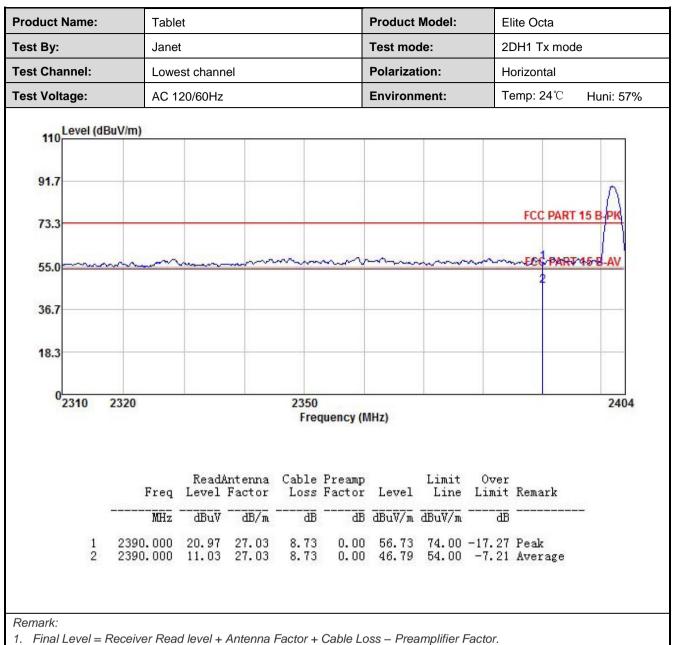




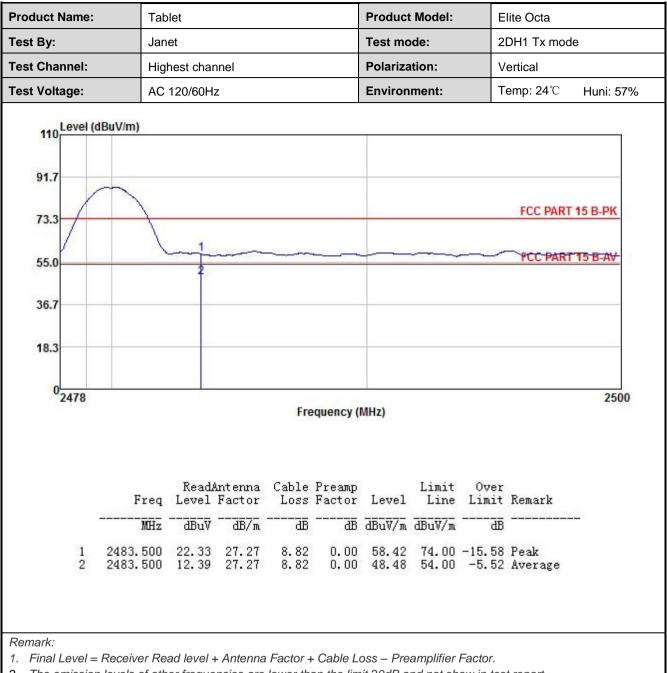
$\pi/4$ -DQPSK mode

	Tab	Tablet				Product Model:			Elite Octa		
est By:	Jane	et				Test mo	de:	21	DH1 Tx mod	е	
est Channel:	Low	est chan	nel			Polariza	tion:	V	ertical		
est Voltage:	AC	120/60Hz	2			Environ	ment:	Т	emp: 24° ℃	Huni: 57%	
110 Level (d	IBuV/m)										
91.7			_							Λ	
73.3								_	FCC PART	15 B-PK	
55.0	m			m	~~~~~	~~~~		mm	FCCPART	15 B-AV	
36.7		_									
18.3											
⁰ 2310	2320			2350) equency (I	MU7)				2404	
				FIE	quency (i	MITZ)					
	Freq	Read/ Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark		
	MHz	dBu⊽	 		<u>dB</u>	dBuV/m	dBuV/m	<u>a</u> B			
1	2390.000 2390.000	22.23 12.34		8.73 8.73	0.00 0.00	57.99 48.10		-16.01 -5.90	Peak Average		

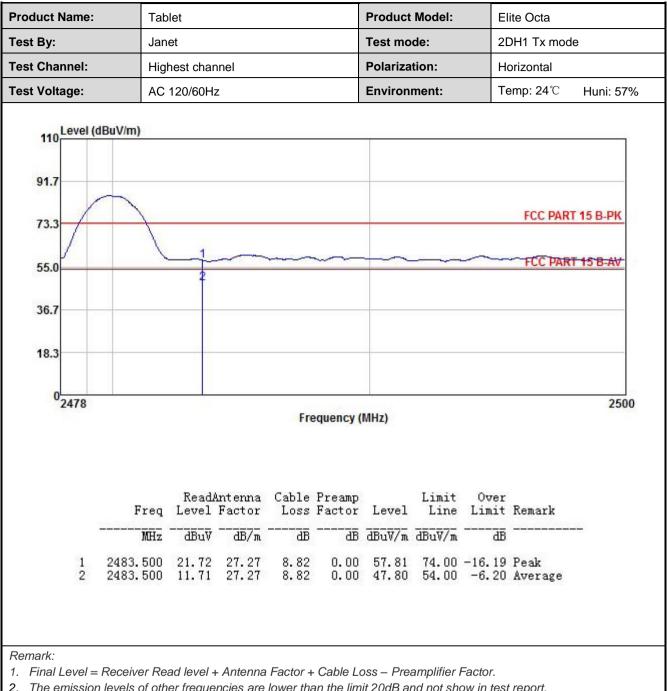














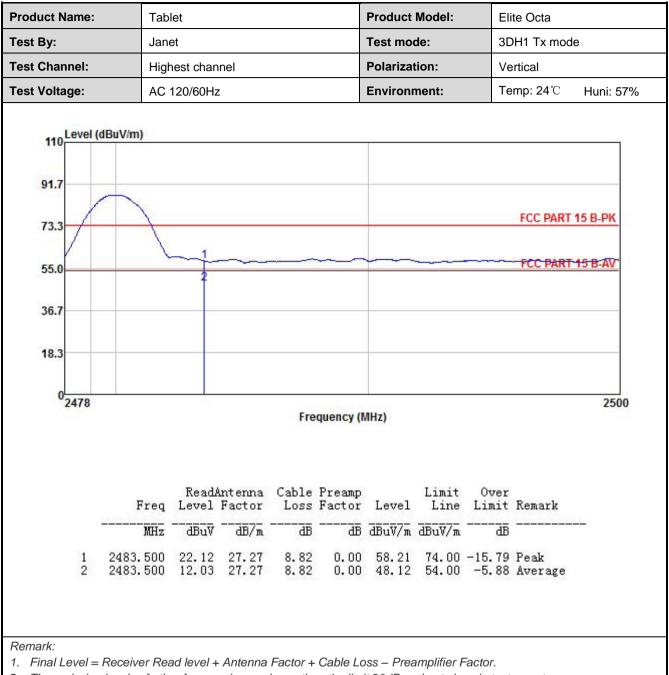
8DPSK mode

roduct Name:	Table	et	Product Model: Elite Octa										
est By:	Jane	et Test mode: 3DH1 Tx mode						3DH1 Tx mode					
est Channel:	Lowe	est chann	el			Polariza	tion:	V	Vertical				
est Voltage:	AC 1	20/60Hz				Environ	ment:	Т	emp: 24 ℃	Huni: 57%			
1 averal dat	Deller												
110 Level (dl	Buv/m)												
04.7													
91.7										Λ			
73.3	_		_						FCC PART	15 B PK			
				Contraction of the					col no				
55.0		mm	mm		~~~~~	m		-	2	F15-B-AV			
36.7													
18.3													
-													
02310	2320			235	0 equency (- ¹⁰	2404			
					squency								
		ReadA	ntenna	Cable	Preamp		Limit	Over					
	Freq	Level	Factor	Loss	Factor	Level	Line		Remark				
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		_			
1	2390.000 2390.000	22.07	27.03 27.03	8.73 8.73	0.00 0.00	57.83 48.37	74.00 54.00	-16.17	Peak Average				
									en antenine (Fran				

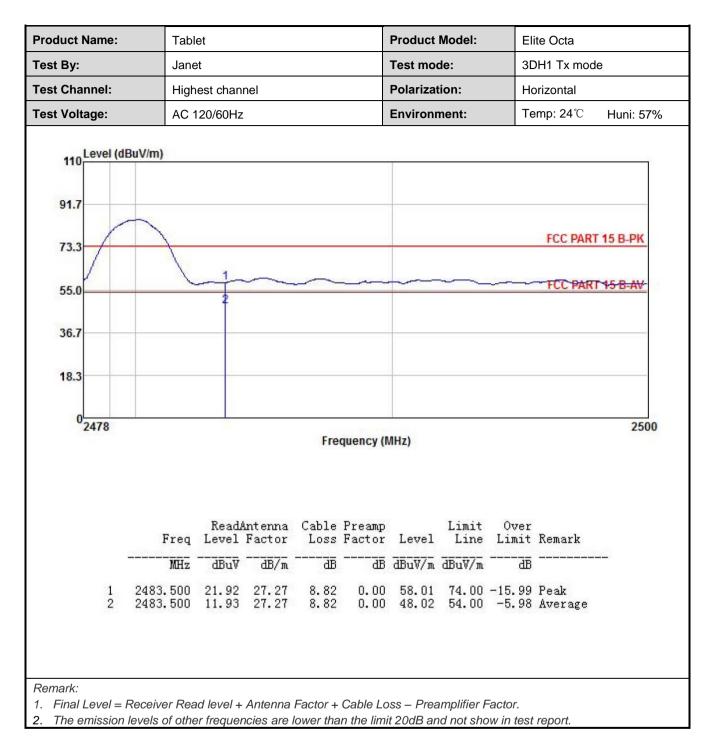














6.10 Spurious Emission

6.10.1 Conducted Emission Method

Test Requirement:	FCC Part 15 C Section 15.247 (d)
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 setup:	
Test Instruments:	Refer to section 5.9 for details
Test mode:	Non-hopping mode
Test results:	Pass
Measurement Data:	Refer to Appendix A - BT



6.10.2 Radiated Emission Method

Test Requirement:	FCC Part 15 C S	Section 15.	209						
Test Frequency Range:	9 kHz to 25 GHz	9 kHz to 25 GHz							
Test Distance:	3m								
Receiver setup:	Frequency	Detecto	or	RBW	VBW	Remark			
	30MHz-1GHz	Quasi-pe	eak	120kHz	300kH	z Quasi-peak Value			
		Peak		1MHz	3MHz	z Peak Value			
	Above 1GHz	RMS		1MHz	3MHz	Average Value			
Limit:	Frequenc	ÿ	Lim	it (dBuV/m @	@10m)	Remark			
	30MHz-88N	/Hz		30.0		Quasi-peak Value			
	88MHz-216	MHz		33.5		Quasi-peak Value			
	216MHz-960	MHz		36.0		Quasi-peak Value			
	960MHz-10	GHz		44.0		Quasi-peak Value			
	Frequenc	;y	Lin	nit (dBuV/m	@3m)	Remark			
				54.0		Average Value			
	Above 1G	HZ -		74.0		Peak Value			
	Below 1GHz	n 0.8m	4m			Antenna Tower Search Antenna RF Test Receiver			
	Ground Plane Above 1GHz								
		Horn Antenna Tower Horn Antenna Tower Ground Reference Plane Test Receiver							
Test Procedure:	1GHz)/1.5m (below 1GH	n(above 10 lz)or 3 met	GHz) ter cl	above the hamber(abov	ground a /e 1GHz)	ating table 0.8m(below at a 10 meter chamber). The table was rotated ghest radiation.			

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	2. The EUT was set 10 meters(below 1GHz) or 3 meters(above 1GHz) away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.				
	3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.				
	4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.				
	 The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 				
	6. 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.				
Test Instruments:	Refer to section 5.9 for details				
Test mode:	Non-hopping mode				
Test results:	Pass				
Remark:	 Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis is the worst case. 0 kHz to 20 MHz is point floor and lower than the limit 20dB, as only 				
	 9 kHz to 30 MHz is noise floor and lower than the limit 20dB, so only shows the data of above 30MHz in this report. 				



Measurement Data (worst case):

Below 1GHz:

Product Name:		Tablet				Produ	Product Model:			Elite Octa			
Fest By:		Janet	anet			Test n	Test mode:		BT Tx mode				
Fest Frequence	cy:	30 MHz	<u>z</u> ~ 1 G	Hz			Polari	olarization: Vertical & Horizontal		ıl			
Fest Voltage:		AC 120)/60Hz				Enviro	onment:		Temp: 2	24 ℃	Hu	ni: 57%
						Full Spec	trum						
4	5-									OC PAR	Т 15.24	7.10 <u>m</u>	
4													
3	0												
BµV/	- -											*	
Level in dBµV/	0+									*	مىللەلمەر		
Leve		x	* *							der fullen in en			
	0	, A		*		re tritt				an and a second			
		www.	NY NA					UNITED OF					
	o I	+ +		and the second								****	
	30M	50	60	80	100M		200	300	400	500	80	00 10	3
						Freque	ncy in Hz						

	Frequency↓ (MHz)∤∂	MaxPeak↓ (dB ዞ V/m)୶	Limit↓ (dB ዞ V/m)⊮	Margin↓ (dB)↩	Height↓ (cm)⊮	Pole	Azimuth↓ (deg)⊮ੋ	Corr.↓ (dB/m)⊮
•	67.151000~	14.24 -2	30.00 ₽	15.76 ₽	100.0 ↩	H⊷	205.0 ₽	- 18.1 ₽
	56.578000	14.06	30.00 ₽	15.94 ₽	100.0 ₽	H⊷	231.0 ₽	- 16.5 0
	76.560000 ~	13.40 ₽	30.00 ₽	16.60 ₽	100.0 ↩	H⊷	344.0 ₽	- 19.8 ₽
	562.530000e	22.74 <i>i</i>	36.00 ₽	13.26 ₽	100.0 ₽	V⊷	92.0 ₽	- 7.5 ₽
	52.892000« ²	14.07 ₽	30.00 ₽	15.93 ₽	100.0 ↩	V⊷	276.0 ₽	- 15.9 ₽
•	955.962000e	26.79	36.00 ₽	9.21 ₽	100.0 ₽	۲÷	305.0 ₽	0.0 ⊷

Remark:

- 1. MaxPeak= Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.
- 3. The Aux Factor is a notch filter switch box loss, this item is not used.



Above 1GHz:

		Test ch	annel: Lowest ch	nannel					
		Det	tector: Peak Valu	ie					
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization			
4804.00	54.49	-10.39	44.10	74.00	29.90	Vertical			
4804.00	54.58	-10.39	44.19	74.00	29.81	Horizontal			
	÷	Dete	ctor: Average Va	llue		·			
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization			
4804.00	47.12	-10.39	36.73	54.00	17.27	Vertical			
4804.00	46.35	-10.39	35.96	54.00	18.04	Horizontal			
		Test ch	annel: Middle ch	annel					
			tector: Peak Valu						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarizatior			
4882.00	54.68	-10.18	44.50	74.00	29.50	Vertical			
4882.00	54.29	-10.18	44.11	74.00	29.89	Horizontal			
		Dete	ctor: Average Va	llue					
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization			
4882.00	47.22	-10.18	37.04	54.00	16.96	Vertical			
4882.00	45.93	-10.18	35.75	54.00	18.25	Horizontal			
		Test ch	annel: Highest cl	nannel					
		Det	tector: Peak Valu	ie					
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization			
4960.00	54.19	-10.12	44.07	74.00	29.93	Vertical			
4960.00	54.10	-10.12	43.98	74.00	30.02	Horizontal			
		Dete	ctor: Average Va	llue					
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization			
4960.00	47.03	-10.12	36.91	54.00	17.09	Vertical			
	46.42	-10.12	36.30	54.00	17.70	Horizonta			