

# RADIO TEST REPORT FCC ID: 2AQZL-ELT0706H

Product: MID

Trade Mark: HighQ

Model No.: ELT0706H

Serial Model: N/A

Report No.: SER180817019002E

**Issue Date:** 30 Aug. 2018

# **Prepared for**

EPIK Learning, LLc 7801 Hayvenhurst Avenue, Van Nuys, California 91406 USA

# Prepared by

Shenzhen NTEK Testing Technology Co., Ltd.

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## 1 TEST RESULT CERTIFICATION

Applicant's name:	EPIK Learning, LLc	
Address:	7801 Hayvenhurst Avenue, Van Nuys, California 91406 USA	
Manufacturer's Name:	EPIK Learning, LLc	
Address	7801 Hayvenhurst Avenue, Van Nuys, California 91406 USA	
Product description		
Product name:	MID	
Model and/or type reference:	ELT0706H	
Serial Model:	N/A	

#### Measurement Procedure Used:

APPLICABLE STANDARDS				
APPLICABLE STANDARD/ TEST PROCEDURE	TEST RESULT			
FCC 47 CFR Part 2, Subpart J				
FCC 47 CFR Part 15, Subpart C	Complied			
KDB 174176 D01 Line Conducted FAQ v01r01				
ANSI C63.10-2013				
FCC KDB 558074 D01 DTS Meas Guidance v04				

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

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The test results of this report relate only to the tested sample identified in this report.

Date of Test	: 17 Aug. 2018 ~ 28 Aug. 2018		
Testing Engineer	Many. Hu		
	(Mary Hu)		
Technical Manager	Jason chen		
	(Jason Chen)		
	San. Chen		
Authorized Signatory	Min . Collect		
Authorized digitatory	(Sam Chen)		

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# **SUMMARY OF TEST RESULTS**

FCC Part15 (15.247), Subpart C					
Standard Section	Standard Section Test Item				
15.207	Conducted Emission	PASS			
15.247 (a)(2)	6dB Bandwidth	PASS			
15.247 (b)	Peak Output Power	PASS			
15.209 (a) 15.205 (a)	Radiated Spurious Emission	PASS			
15.247 (d)	Power Spectral Density	PASS			
15.247 (d)	Band Edge Emission	PASS			
15.247 (d)	Spurious RF Conducted Emission	PASS			
15.203	Antenna Requirement	PASS			

## Remark:

- "N/A" denotes test is not applicable in this Test Report.
   All test items were verified and recorded according to the standards and without any deviation during the test.

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## 3 FACILITIES AND ACCREDITATIONS

#### 3.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. China.

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 22.

#### 3.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description

CNAS-Lab. : The Laboratory has been assessed and proved to be in compliance with

CNAS-CL01:2006 (identical to ISO/IEC 17025:2005)

The Certificate Registration Number is L5516.

IC-Registration The Certificate Registration Number is 9270A-1.

FCC- Accredited Test Firm Registration Number: 463705.

Designation Number: CN1184

A2LA-Lab. The Certificate Registration Number is 4298.01

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.

This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).

Name of Firm : Shenzhen NTEK Testing Technology Co., Ltd.

Site Location : 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang

Street, Bao'an District, Shenzhen 518126 P.R. China.

#### 3.3 MEASUREMENT UNCERTAINTY

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

No.	Item	Uncertainty
1	Conducted Emission Test	±2.80dB
2	RF power, conducted	±0.16dB
3	Spurious emissions, conducted	±0.21dB
4	All emissions, radiated(30MHz~1GHz)	±2.64dB
5	All emissions, radiated(1GHz~6GHz)	±2.40dB
6	All emissions, radiated(>6GHz)	±2.52dB
7	Temperature	±0.5°C
8	Humidity	±2%

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## 4 GENERAL DESCRIPTION OF EUT

Product Feature and Specification				
Equipment	MID			
Trade Mark	HighQ			
FCC ID	2AQZL-ELT0706H			
Model No.	ELT0706H			
Serial Model	N/A			
Model Difference	N/A			
Operating Frequency	2402MHz~2480MHz			
Modulation	GFSK			
Number of Channels	40 Channels			
Bluetooth Version	BT V4.0			
Antenna Type	FPCB Antenna			
Antenna Gain	1 dBi			
	☑DC supply: DC 3.7V/2800mAh from Battery or DC 5V from USB Port.			
Power supply	☐Adapter supply:  Model:NA010050015  Input: 100-240V~50/60Hz 0.3A  Output: 5V——1500mA			
HW Version R863H				
SW Version Android 8.1				

Note: Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.

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# **Revision History**

Report No.	Version	Description	Issued Date
SER180817019002E	Rev.01	Initial issue of report	Aug 30, 2018

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#### 5 DESCRIPTION OF TEST MODES

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

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Test of channel included the lowest and middle and highest frequency to perform the test, then record on this report.

Those data rates (1Mbps for GFSK modulation) were used for all test.

The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement –X, Y, and Z-plane. The X-plane results were found as the worst case and were shown in this report.

Carrier Frequency and Channel list:

Channel	Frequency(MHz)
0	2402
1	2404
	•••
19	2440
20	2442
38	2478
39	2480

Note:  $fc=2402MHz+k\times2MHz$  k=0 to 39

The following summary table is showing all test modes to demonstrate in compliance with the standard.

	Test Cases					
Test Item	Data Rate/ Modulation					
rest item	Bluetooth 4.0_LE / GFSK					
AC Conducted Emission	Mode 1: normal link mode					
	Mode 1: normal link mode					
Radiated Test	Mode 2: Bluetooth Tx Ch00_2402MHz_1Mbps					
Cases	Mode 3: Bluetooth Tx Ch19_2440MHz_1Mbps					
	Mode 4: Bluetooth Tx Ch39_2480MHz_1Mbps					
Conducted Test	Mode 2: Bluetooth Tx Ch00_2402MHz_1Mbps					
Conducted Test	Mode 3: Bluetooth Tx Ch19_2440MHz_1Mbps					
Cases	Mode 4: Bluetooth Tx Ch39_2480MHz_1Mbps					

#### Note:

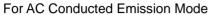
- 1. The engineering test program was provided and the EUT was programmed to be in continuously transmitting mode.
- 2. AC power line Conducted Emission was tested under maximum output power.
- 3. For radiated test cases, the worst mode data rate 1Mbps was reported only, because this data rate has the highest RF output power at preliminary tests, and no other significantly frequencies found in conducted spurious emission.
- 4. EUT is set to continuous transmission mode. duty cycle greater than 98%.
- 5. EUT built-in battery-powered, the battery is fully-charged.

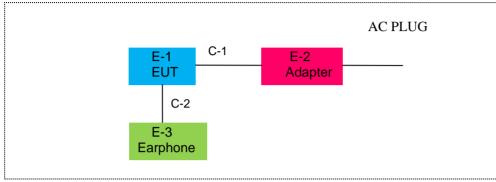
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## **6 SETUP OF EQUIPMENT UNDER TEST**

## 6.1 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM

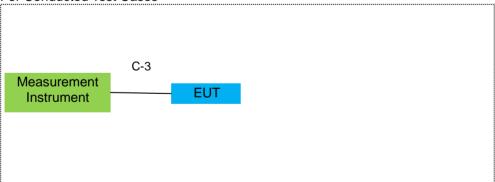




## For Radiated Test Cases

E-1 EUT

## For Conducted Test Cases



Note:The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.

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#### **6.2 SUPPORT EQUIPMENT**

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

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	MID	HighQ	ELT0706H	N/A	EUT
E-2	Adapter	N/A	NA010050015	N/A	Peripherals
E-3	Earphone	N/A	2688	N/A	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length
C-1	USB Cable	NO	NO	1.2m
C-2	Earphone Cable	NO	NO	1.2m
C-3	RF Cable	NO	NO	0.5m

#### Notes:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in <code>[Length]</code> column.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".

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## 6.3 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation& Conducted Test equipment

Naulai	Radiation& Conducted Test equipment								
Iten	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibrati on period		
1	Spectrum Analyzer	Aglient	E4407B	MY45108040	2018.05.19	2019.05.18	1 year		
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2017.10.26	2018.10.25	1 year		
3	Spectrum Analyzer	R&S	FSV40	101417	2017.10.26	2018.10.25	1 year		
4	Test Receiver	R&S	ESPI7	101318	2018.05.19	2019.05.18	1 year		
5	Bilog Antenna	TESEQ	CBL6111D	31216	2018.04.08	2019.04.07	1 year		
6	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2018.05.19	2020.05.18	2 year		
7	Horn Antenna	EM	EM-AH-1018 0	2011071402	2018.04.08	2019.04.07	1 year		
8	Amplifier	EMC	EMC051835 SE	980246	2018.08.05	2019.08.04	1 year		
9	Active Loop Antenna	SCHWARZBE CK	FMZB 1519 B	055	2017.12.06	2018.12.06	1 year		
10	Power Meter	DARE	RPR3006W	15I00041SN O84	2018.08.05	2019.08.04	1 year		
11	Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2017.04.21	2020.04.20	3 year		
12	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2017.04.21	2020.04.20	3 year		
13	High Test Cable(1G-40G Hz)	N/A	R-03	N/A	2017.04.21	2020.04.20	3 year		
14	High Test Cable(1G-40G Hz)	N/A	R-04	N/A	2017.04.21	2020.04.20	3 year		
15	Filter	TRILTHIC	2400MHz	29	2017.04.19	2020.04.18	3 year		
16	temporary antenna connector (Note)	NTS	R001	N/A	N/A	N/A	N/A		

#### Note:

We will use the temporary antenna connector (soldered on the PCB board) When conducted test And this temporary antenna connector is listed within the instrument list

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Test Cable

(9KHz-30MH

z)

N/A

7

AC Conduction Test equipment Kind of Calibrated Calibration Last Item Manufacturer Type No. Serial No. Equipment calibration period until Test Receiver R&S **ESCI** 101160 2018.05.19 2019.05.18 1 1 year 2 LISN R&S **ENV216** 101313 2018.04.18 2019.04.19 1 year **SCHWARZBE** 3 LISN **NNLK 8129** 8129245 2018.05.19 2019.05.18 1 year CK 50Ω Coaxial **ANRITSU** 4 MP59B 6200983704 2018.05.19 2020.05.18 2 year Switch **CORP** Test Cable 5 (9KHz-30MH N/A C01 N/A 2017.04.21 2020.04.20 3 year z) Test Cable 6 (9KHz-30MH N/A C02 N/A 2017.04.21 2020.04.20 3 year

Note: Each piece of equipment is scheduled for calibration once a year except the Aux Equipment & Test Cable which is scheduled for calibration every 2 or 3 years.

N/A

2017.04.21

2020.04.20

3 year

C03

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## 7 TEST REQUIREMENTS

#### 7.1 CONDUCTED EMISSIONS TEST

#### 7.1.1 Applicable Standard

According to FCC Part 15.207(a) and KDB 174176 D01 Line Conducted FAQ v01r01

#### 7.1.2 Conformance Limit

Fragues (MHz)	Conducted Emission Limit		
Frequency(MHz)	Quasi-peak	Average	
0.15-0.5	66-56*	56-46*	
0.5-5.0	56	46	
5.0-30.0	60	50	

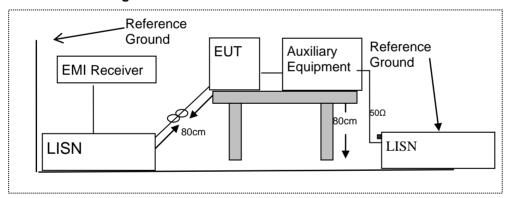
Note: 1. \*Decreases with the logarithm of the frequency

- 2. The lower limit shall apply at the transition frequencies
- 3. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

#### 7.1.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

## 7.1.4 Test Configuration



#### 7.1.5 Test Procedure

According to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 Conducted emissions the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.

- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room.
- 2. The EUT was placed on a table which is 0.8m above ground plane.
- 3. Connect EUT to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- 4. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40cm long.
- 5. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- 6. LISN at least 80 cm from nearest part of EUT chassis.
- 7. The frequency range from 150KHz to 30MHz was searched.
- 8. Set the test-receiver system to Peak Detect Function and specified bandwidth(IF bandwidth=9KHz) with Maximum Hold Mode
- 9. For the actual test configuration, please refer to the related Item –EUT Test Photos.

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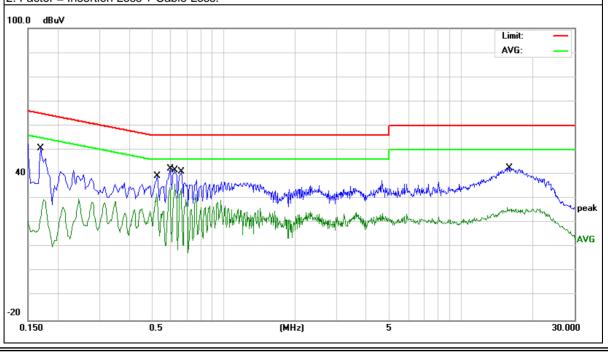
## 7.1.6 Test Results

EUT:	MID	Model Name:	ELT0706H
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	L
Test Voltage:	DC 5V from Adapter AC 120V/60Hz	Test Mode:	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Domork
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1700	40.75	9.76	50.51	64.96	-14.45	QP
0.1700	19.98	9.76	29.74	54.96	-25.22	AVG
0.5260	29.39	9.74	39.13	56.00	-16.87	QP
0.5260	22.45	9.74	32.19	46.00	-13.81	AVG
0.5898	29.93	9.74	39.67	56.00	-16.33	QP
0.5898	24.68	9.74	34.42	46.00	-11.58	AVG
0.6219	31.96	9.74	41.70	56.00	-14.30	QP
0.6219	26.19	9.74	35.93	46.00	-10.07	AVG
0.6660	31.28	9.74	41.02	56.00	-14.98	QP
0.6660	24.33	9.74	34.07	46.00	-11.93	AVG
15.9379	32.47	10.12	42.59	60.00	-17.41	QP
15.9379	16.10	10.12	26.22	50.00	-23.78	AVG

## Remark:

- 1. All readings are Quasi-Peak and Average values.
- 2. Factor = Insertion Loss + Cable Loss.

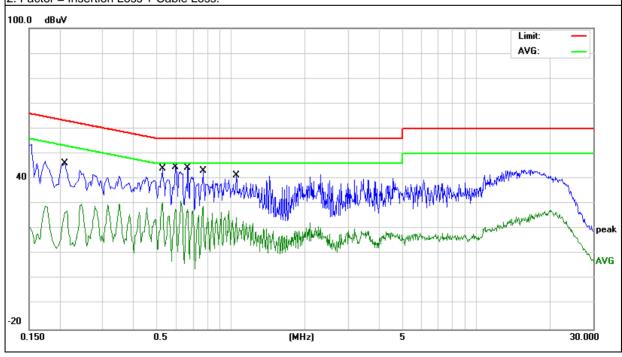


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EUT:	MID	Model Name :	ELT0706H
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	N
Test Voltage •	DC 5V from Adapter AC 120V/60Hz	Test Mode:	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Damark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.2099	36.36	9.73	46.09	63.21	-17.12	QP
0.2099	17.43	9.73	27.16	53.21	-26.05	AVG
0.5260	34.40	9.75	44.15	56.00	-11.85	QP
0.5260	20.90	9.75	30.65	46.00	-15.35	AVG
0.5938	35.03	9.75	44.78	56.00	-11.22	QP
0.5938	21.41	9.75	31.16	46.00	-14.84	AVG
0.6660	34.67	9.75	44.42	56.00	-11.58	QP
0.6660	18.23	9.75	27.98	46.00	-18.02	AVG
0.7700	33.44	9.75	43.19	56.00	-12.81	QP
0.7700	19.23	9.75	28.98	46.00	-17.02	AVG
1.0540	31.67	9.75	41.42	56.00	-14.58	QP
1.0540	14.68	9.75	24.43	46.00	-21.57	AVG

- 1. All readings are Quasi-Peak and Average values.
- 2. Factor = Insertion Loss + Cable Loss.

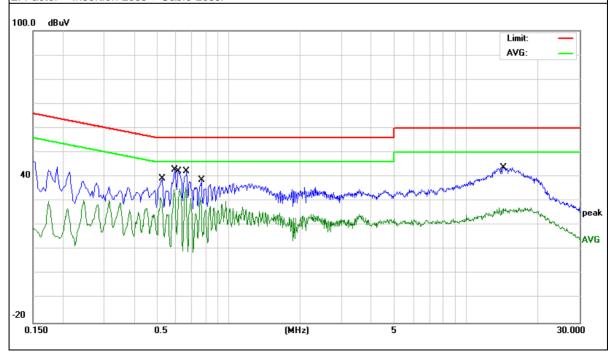


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EUT:	MID	Model Name:	ELT0706H
Temperature:	<b>26</b> ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	L
	DC 5V from Adapter AC 240V/60Hz	Test Mode:	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.5260	29.49	9.74	39.23	56.00	-16.77	QP
0.5260	21.63	9.74	31.37	46.00	-14.63	AVG
0.5938	32.97	9.74	42.71	56.00	-13.29	QP
0.5938	24.96	9.74	34.70	46.00	-11.30	AVG
0.6139	32.37	9.74	42.11	56.00	-13.89	QP
0.6139	25.35	9.74	35.09	46.00	-10.91	AVG
0.6660	32.44	9.74	42.18	56.00	-13.82	QP
0.6660	25.90	9.74	35.64	46.00	-10.36	AVG
0.7700	28.84	9.74	38.58	56.00	-17.42	QP
0.7700	22.06	9.74	31.80	46.00	-14.20	AVG
14.3619	33.76	10.09	43.85	60.00	-16.15	QP
14.3619	17.21	10.09	27.30	50.00	-22.70	AVG

- 1. All readings are Quasi-Peak and Average values.
- 2. Factor = Insertion Loss + Cable Loss.

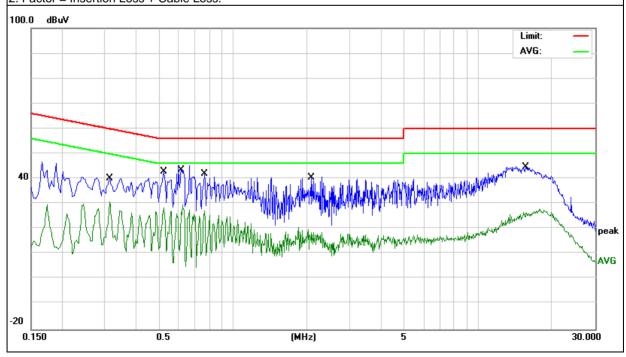


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EUT:	MID	Model Name:	ELT0706H
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	N
LIEST VOITAGE .	DC 5V from Adapter AC 240V/60Hz	Test Mode:	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Domark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.3140	30.49	9.74	40.23	59.86	-19.63	QP
0.3140	21.00	9.74	30.74	49.86	-19.12	AVG
0.5220	33.18	9.75	42.93	56.00	-13.07	QP
0.5220	18.71	9.75	28.46	46.00	-17.54	AVG
0.6139	33.64	9.75	43.39	56.00	-12.61	QP
0.6139	19.93	9.75	29.68	46.00	-16.32	AVG
0.7660	32.09	9.75	41.84	56.00	-14.16	QP
0.7660	17.42	9.75	27.17	46.00	-18.83	AVG
2.0939	30.60	9.80	40.40	56.00	-15.60	QP
2.0939	10.01	9.80	19.81	46.00	-26.19	AVG
15.5617	34.45	10.10	44.55	60.00	-15.45	QP
15.5617	16.68	10.10	26.78	50.00	-23.22	AVG

- 1. All readings are Quasi-Peak and Average values.
- 2. Factor = Insertion Loss + Cable Loss.



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#### 7.2 RADIATED SPURIOUS EMISSION

#### 7.2.1 Applicable Standard

According to FCC Part 15.247(d) and 15.209 and ANSI C63.10-2013

#### 7.2.2 Conformance Limit

According to FCC Part 15.247(d): radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

According to FCC Part15.205, Restricted bands

According to FCC Part 15.205, Restricted bands							
MHz	MHz	MHz	GHz				
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15				
10.495-0.505	16.69475-16.69525	608-614	5.35-5.46				
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75				
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5				
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2				
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5				
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7				
6.26775-6.26825	123-138	2200-2300	14.47-14.5				
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2				
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4				
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12				
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0				
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8				
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5				
12.57675-12.57725	322-335.4	3600-4400	(2)				
13.36-13.41							

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Restricted Frequency(MHz)	Field Strength (µV/m)	Field Strength (dBµV/m)	Measurement Distance
0.009~0.490	2400/F(KHz)	20 log (uV/m)	300
0.490~1.705	2400/F(KHz)	20 log (uV/m)	30
1.705~30.0	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

Limits of Radiated Emission Measurement(Above 1000MHz)

Erogueney/MHz)	Class B (dBuV/m) (at 3M)			
Frequency(MHz)	PEAK	AVERAGE		
Above 1000	74	54		

Remark :1. Emission level in dBuV/m=20 log (uV/m)

- 2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
- 3. Distance extrapolation factor =40log(Specific distance/ test distance)( dB); Limit line=Specific limits(dBuV) + distance extrapolation factor.

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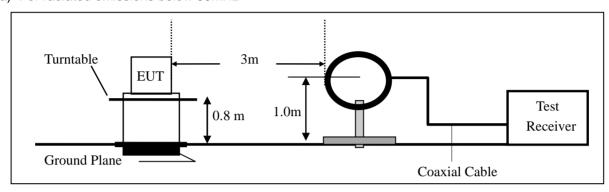


## 7.2.3 Measuring Instruments

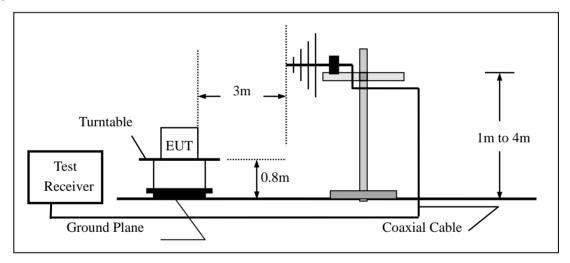
The Measuring equipment is listed in the section 6.3 of this test report.

## 7.2.4 Test Configuration

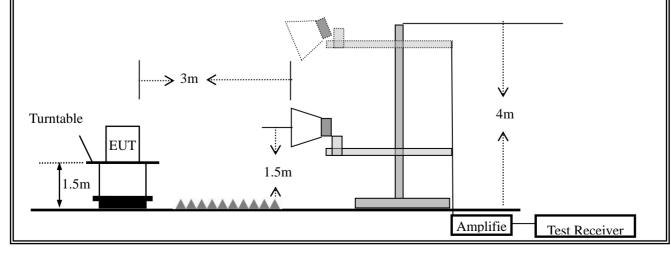
(a) For radiated emissions below 30MHz



(b) For radiated emissions from 30MHz to 1000MHz



(c) For radiated emissions above 1000MHz



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#### 7.2.5 Test Procedure

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10-2013. The test distance is 3m.The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 and CAN/CSA-CEI/IEC CISPR 22.

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT.

Use the following spectrum analyzer settings:

3 - 1 - 1 - 3 - 1 - 1 - 1 - 1 - 1 - 1 -					
Spectrum Parameter	Setting				
Attenuation	Auto				
Start Frequency	1000 MHz				
Stop Frequency	10th carrier harmonic				
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average				

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

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

#### Note:

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

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During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
Above 4000	Peak	1 MHz	1 MHz
Above 1000	Average	1 MHz	10 Hz

Note: for the frequency ranges below 30 MHz, a narrower RBW is used for these ranges but the measured value should add a RBW correction factor (RBWCF) where RBWCF [dB] =10\*lg(100 [kHz]/narrower RBW [kHz]). , the narrower RBW is 1 kHz and RBWCF is 20 dB for the frequency 9 kHz to 150 kHz, and the narrower RBW is 10 kHz and RBWCF is 10 dB for the frequency 150 kHz to 30 MHz.

### 7.2.6 Test Results

■ Spurious Emission below 30MHz (9KHz to 30MHz)

EUT:	MID	Model No.:	ELT0706H
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Mary Hu

Freq.	Ant.Pol.	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
(MHz)	H/V	PK	AV	PK	AV	PK	AV

Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

Distance extrapolation factor =20log(Specific distance/ test distance)( dB);

Limit line=Specific limits(dBuV) + distance extrapolation factor

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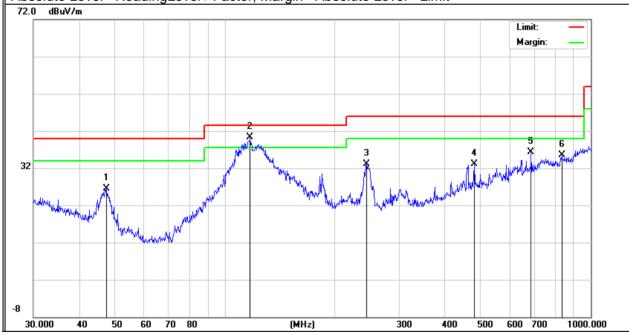
■ Spurious Emission below 1GHz (30MHz to 1GHz)
All the modulation modes have been tested, and the worst result was report as below:

EUT:	MID	Model Name:	ELT0706H				
Temperature:	20 ℃	Relative Humidity:	48%				
Pressure:	1010hPa	Test Mode:	Mode 1				
Test Voltage:	DC 3.7V						

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	47.4917	15.29	11.30	26.59	40.00	-13.41	QP
V	117.3602	27.19	13.21	40.40	43.50	-3.10	QP
V	244.2321	19.22	13.83	33.05	46.00	-12.95	QP
V	480.5276	11.61	21.41	33.02	46.00	-12.98	QP
V	687.1507	11.16	25.07	36.23	46.00	-9.77	QP
V	833.3170	7.06	28.42	35.48	46.00	-10.52	QP

#### Remark:

Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit



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Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Nemark
Н	48.5016	15.06	10.80	25.86	40.00	-14.14	QP
Н	115.3205	24.60	13.23	37.83	43.50	-5.67	QP
Н	187.7530	28.41	10.46	38.87	43.50	-4.63	QP
Н	314.3765	20.99	16.41	37.40	46.00	-8.60	QP
Н	607.7866	9.98	24.36	34.34	46.00	-11.66	QP
Н	833.3170	7.27	28.42	35.69	46.00	-10.31	QP

Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit



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Spurious Emission Above 1GHz (1GHz to 25GHz)

EUT:	MID	Model No.:	ELT0706H
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Mary Hu

Frequenc	Read Level	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Remark	Comment
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Remark	Comment
(**************************************	(4241)	(==)		Channel (2			(==)		
4804.353	62.64	5.21	35.59	44.30	59.14	74.00	-14.86	Pk	Vertical
4804.353	42.55	5.21	35.59	44.30	39.05	54.00	-14.95	AV	Vertical
7206.122	61.71	6.48	36.27	44.60	59.86	74.00	-14.14	Pk	Vertical
7206.122	41.18	6.48	36.27	44.60	39.33	54.00	-14.67	AV	Vertical
4804.184	63.31	5.21	35.55	44.30	59.77	74.00	-14.23	Pk	Horizontal
4804.184	42.35	5.21	35.55	44.30	38.81	54.00	-15.19	AV	Horizontal
7206.229	61.62	6.48	36.27	44.52	59.85	74.00	-14.15	Pk	Horizontal
7206.229	42.28	6.48	36.27	44.52	40.51	54.00	-13.49	AV	Horizontal
			Mid	Channel (2	440 MHz)- <i>A</i>	Above 1G			
4880.488	63.01	5.21	35.66	44.20	59.68	74.00	-14.32	Pk	Vertical
4880.488	44.14	5.21	35.66	44.20	40.81	54.00	-13.19	AV	Vertical
7320.28	64.62	7.10	36.50	44.43	63.79	74.00	-10.21	Pk	Vertical
7320.28	40.99	7.10	36.50	44.43	40.16	54.00	-13.84	AV	Vertical
4880.381	62.20	5.21	35.66	44.20	58.87	74.00	-15.13	Pk	Horizontal
4880.381	40.38	5.21	35.66	44.20	37.05	54.00	-16.95	AV	Horizontal
7320.249	60.01	7.10	36.50	44.43	59.18	74.00	-14.82	Pk	Horizontal
7320.249	44.84	7.10	36.50	44.43	44.01	54.00	-9.99	AV	Horizontal
			High	Channel (2	480 MHz)-	Above 1G			
4960.497	64.34	5.21	35.52	44.21	60.86	74.00	-13.14	Pk	Vertical
4960.497	43.29	5.21	35.52	44.21	39.81	54.00	-14.19	AV	Vertical
7440.146	63.72	7.10	36.53	44.60	62.75	74.00	-11.25	Pk	Vertical
7440.146	48.34	7.10	36.53	44.60	47.37	54.00	-6.63	AV	Vertical
4960.341	63.78	5.21	35.52	44.21	60.30	74.00	-13.70	Pk	Horizontal
4960.341	44.90	5.21	35.52	44.21	41.42	54.00	-12.58	AV	Horizontal
7440.214	64.14	7.10	36.53	44.60	63.17	74.00	-10.83	Pk	Horizontal
7440.214	44.74	7.10	36.53	44.60	43.77	54.00	-10.23	AV	Horizontal

Note: (1) All Readings are Peak Value (VBW=3MHz) and AV Value (VBW=10Hz). (2) Emission Level= Antenna Factor + Cable Loss + Read Level - Preamp Factor

(3)All other emissions more than 20dB below the limit.

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■ Spurious Emission in Restricted Band 2310-2390MHz and 2483.5-2500MHz						
EUT: MID Model No.: ELT0706H						
Temperature:	20 ℃	Relative Humidity:	48%			
Test Mode:	Mode2/ Mode4	Test By:	Mary Hu			

Frequenc	Meter	Cable	Antenna	Preamp	Emission	Limits	Morgin	Detector	
У	Reading	Loss	Factor	Factor	Level	Limits	Margin	Detector	Comment
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type	
				GF	SK			•	•
2310.00	63.10	2.97	27.80	43.80	50.07	74	-23.93	Pk	Horizontal
2310.00	43.95	2.97	27.80	43.80	30.92	54	-23.08	AV	Horizontal
2310.00	61.85	2.97	27.80	43.80	48.82	74	-25.18	Pk	Vertical
2310.00	41.49	2.97	27.80	43.80	28.46	54	-25.54	AV	Vertical
2390.00	64.68	3.14	27.21	43.80	51.23	74	-22.77	Pk	Vertical
2390.00	42.32	3.14	27.21	43.80	28.87	54	-25.13	AV	Vertical
2390.00	64.91	3.14	27.21	43.80	51.46	74	-22.54	Pk	Horizontal
2390.00	42.84	3.14	27.21	43.80	29.39	54	-24.61	AV	Horizontal
2483.50	62.72	3.58	27.70	44.00	50.00	74	-24.00	Pk	Vertical
2483.50	42.42	3.58	27.70	44.00	29.70	54	-24.30	AV	Vertical
2483.50	65.56	3.58	27.70	44.00	52.84	74	-21.16	Pk	Horizontal
2483.50	44.71	3.58	27.70	44.00	31.99	54	-22.01	AV	Horizontal

Note: (1) All other emissions more than 20dB below the limit.

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Spurious Emission in Restricted Band 3260MHz-18000MHz

EUT:	MID	Model No.:	ELT0706H
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/ Mode4	Test By:	Mary Hu

Frequenc y	Readin g Level	Cable Loss	Antenn a	Preamp Factor	Emission Level	Limits	Margin	Detect or	Comment
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµ V/m)	(dBµ V/m)	(dB)	Туре	Comment
3260	62.90	4.04	29.57	44.70	51.81	74	-22.19	Pk	Vertical
3260	55.36	4.04	29.57	44.70	44.27	54	-9.73	AV	Vertical
3260	65.36	4.04	29.57	44.70	54.27	74	-19.73	Pk	Horizontal
3260	56.57	4.04	29.57	44.70	45.48	54	-8.52	AV	Horizontal
3332	65.07	4.26	29.87	44.40	54.80	74	-19.20	Pk	Vertical
3332	55.21	4.26	29.87	44.40	44.94	54	-9.06	AV	Vertical
3332	65.58	4.26	29.87	44.40	55.31	74	-18.69	Pk	Horizontal
3332	50.98	4.26	29.87	44.40	40.71	54	-13.29	AV	Horizontal
17797	44.76	10.99	43.95	43.50	56.20	74	-17.80	Pk	Vertical
17797	34.66	10.99	43.95	43.50	46.10	54	-7.90	AV	Vertical
17788	44.46	11.81	43.69	44.60	55.36	74	-18.64	Pk	Horizontal
17788	35.88	11.81	43.69	44.60	46.78	54	-7.22	AV	Horizontal

Note: (1) All other emissions more than 20dB below the limit.

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#### 7.3 6DB BANDWIDTH

#### 7.3.1 Applicable Standard

According to FCC Part 15.247(a)(2) and KDB 558074 DTS 01 Meas. Guidance v04

#### 7.3.2 Conformance Limit

The minimum permissible 6dB bandwidth is 500 kHz.

#### 7.3.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

## 7.3.4 Test Setup

Please refer to Section 6.1 of this test report.

#### 7.3.5 Test Procedure

The testing follows KDB 558074 DTS 01 Meas. Guidance v04

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.

The EUT was operating in controlled its channel.

Use the following spectrum analyzer settings:

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) ≥ 3\*RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

#### 7.3.6 Test Results

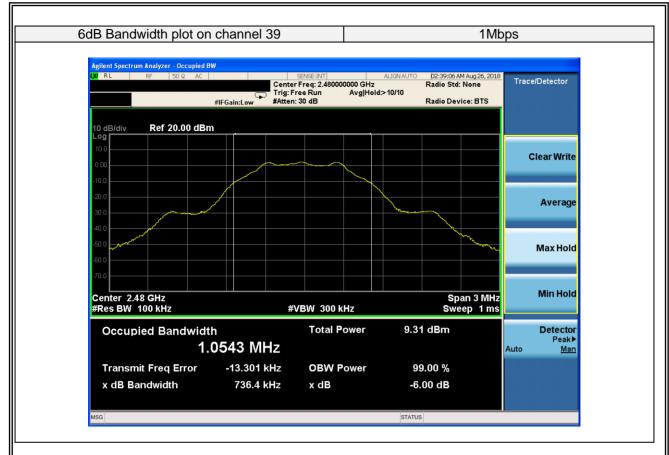
EUT:	MID	Model No.:	ELT0706H
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Mary Hu

Channel	Frequency (MHz)	6dB bandwidth (kHz)	Limit (kHz)	Result
Low	2402	740.9	≥500	Pass
Middle	2440	737.8	≥500	Pass
High	2480	736.4	≥500	Pass

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#### 7.4 PEAK OUTPUT POWER

#### 7.4.1 Applicable Standard

According to FCC Part 15.247(b)(3) and KDB 558074 DTS 01 Meas. Guidance v04

#### 7.4.2 Conformance Limit

The maximum peak conducted output power of the intentional radiator for systems using digital modulation in the 2400 - 2483.5 MHz bands shall not exceed: 1 Watt (30dBm). If transmitting antenna of directional gain greater than 6dBi is used, the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

## 7.4.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

#### 7.4.4 Test Setup

Please refer to Section 6.1 of this test report.

#### 7.4.5 Test Procedure

The testing follows KDB 558074 DTS 01 Meas. Guidance v04

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.

The EUT was operating in controlled its channel.

Use the following spectrum analyzer settings:

Set the RBW ≥ DTS bandwidth.

Set VBW = 3\*RBW.

Set the span ≥3\*RBW

Set Sweep time = auto couple.

Set Detector = peak.

Set Trace mode = max hold.

Allow trace to fully stabilize.

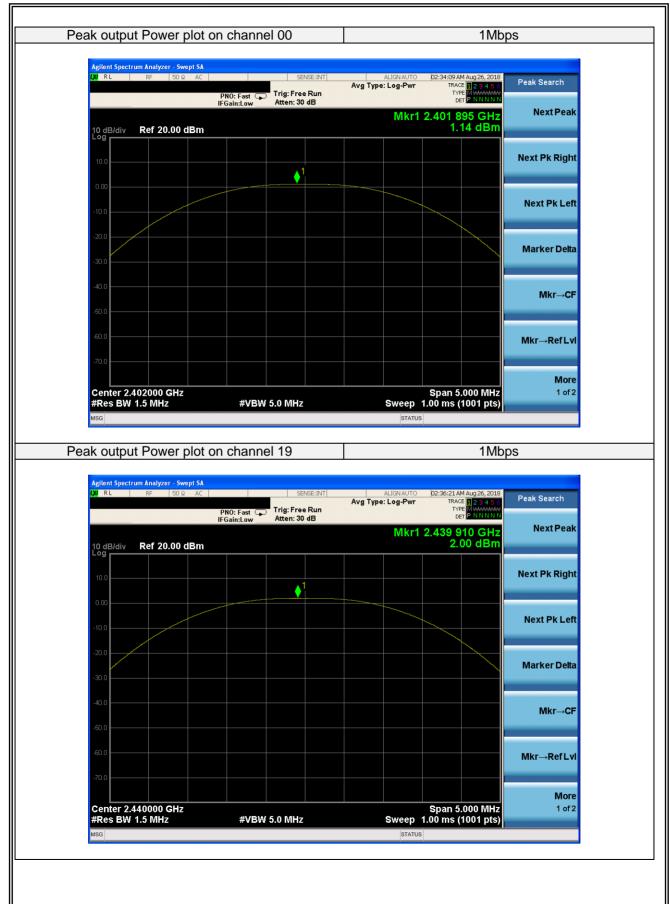
Use peak marker function to determine the peak amplitude level.

#### 7.4.6 Test Results

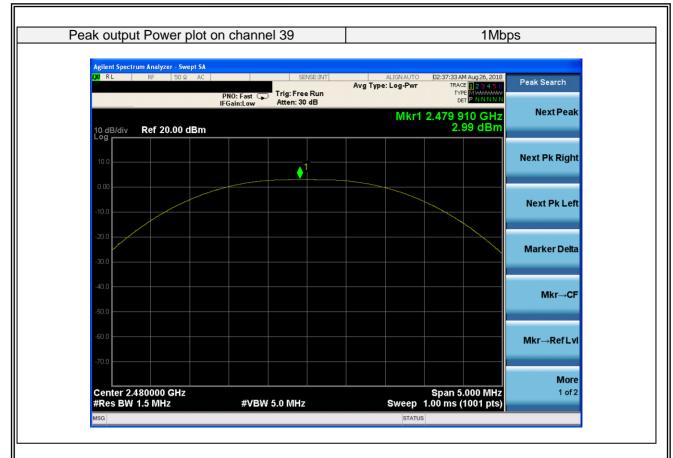
EUT:	MID	Model No.:	ELT0706H
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Mary Hu

Test Channel	Frequency (MHz)	Power Setting	Peak Output Power (dBm)	LIMIT (dBm)	Verdict
			1Mbps		
00	2402	Default	1.14	30	PASS
19	2440	Default	2.00	30	PASS
39	2480	Default	2.99	30	PASS

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#### 7.5 POWER SPECTRAL DENSITY

#### 7.5.1 Applicable Standard

According to FCC Part 15.247(e) and KDB 558074 DTS 01 Meas. Guidance v04

#### 7.5.2 Conformance Limit

The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

## 7.5.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

#### 7.5.4 Test Setup

Please refer to Section 6.1 of this test report.

#### 7.5.5 Test Procedure

The testing follows Measurement Procedure 10.2 Method AVGPSD of FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v04

This procedure shall be used if maximum peak conducted output power was used to demonstrate compliance, and is optional if the maximum conducted (average) output power was used to demonstrate compliance.

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.

The EUT was operating in controlled its channel.

- a) Set analyzer center frequency to DTS channel center frequency.
- b) Set the span to 1.5\*DTS bandwidth.
- c) Set the RBW to:  $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$ .
- d) Set the VBW ≥ 3 RBW.
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within the RBW.
- j) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

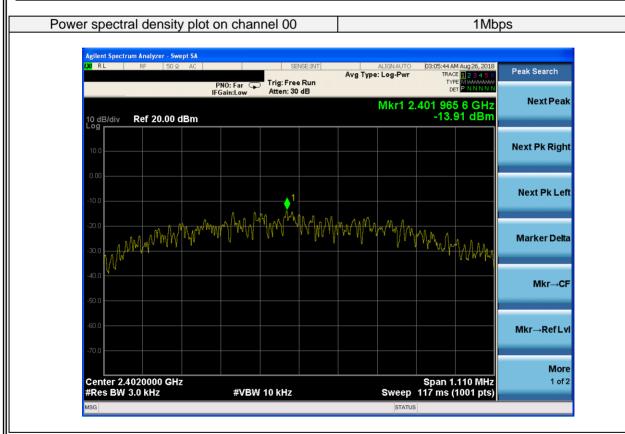
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#### 7.5.6 Test Results

EUT:	MID	Model No.:	ELT0706H
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Mary Hu

Test Channel	Frequency (MHz)	Power Density (dBm/3KHz)	Limit (dBm/3KHz)	Verdict		
	1Mbps					
00	2402	-13.91	8	PASS		
19	2440	-12.95	8	PASS		
39	2480	-12.05	8	PASS		



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#### 7.6 CONDUCTED BAND EDGE MEASUREMENT

#### 7.6.1 Applicable Standard

According to FCC Part 15.247(d) and KDB 558074 DTS 01 Meas. Guidance v04

#### 7.6.2 Conformance Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 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, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

#### 7.6.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

#### 7.6.4 Test Setup

Please refer to Section 6.1 of this test report.

#### 7.6.5 Test Procedure

The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v04.

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.

The EUT was operating in controlled its channel.

Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.

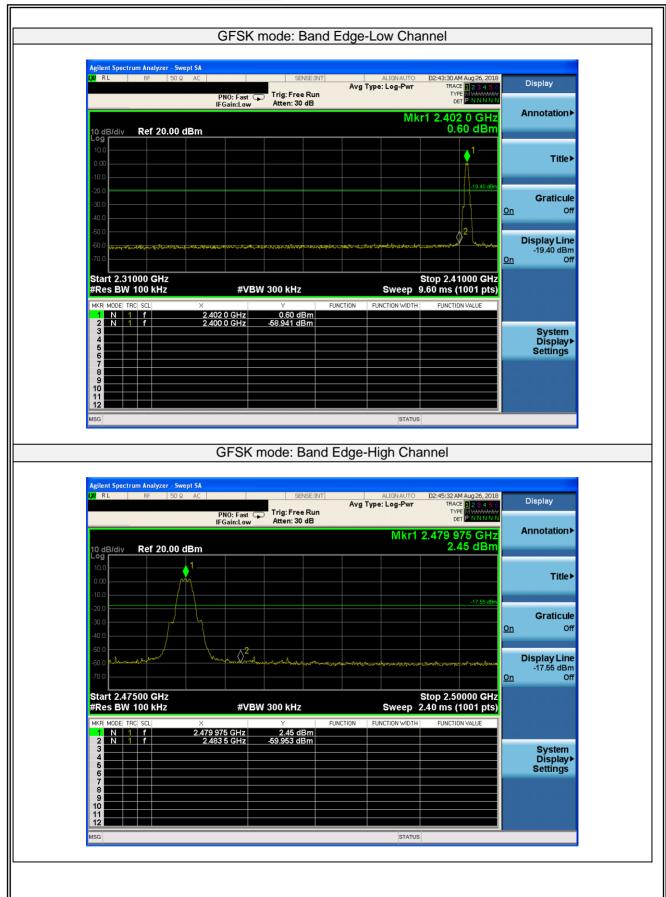
Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.

Repeat above procedures until all measured frequencies were complete.

#### 7.6.6 Test Results

EUT:	MID	Model No.:	ELT0706H
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode4	Test By:	Mary Hu

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#### 7.7 SPURIOUS RF CONDUCTED EMISSIONS

#### 7.7.1 Conformance Limit

- 1. Below -20dB of the highest emission level in operating band.
- 2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

#### 7.7.2 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

## 7.7.3 Test Setup

Please refer to Section 6.1 of this test report.

#### 7.7.4 Test Procedure

The Spurious RF conducted emissions compliance of RF radiated emission should be measured by following the guidance in ANSI C63.10-2013 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization etc. Set RBW=100kHz and VBW= 300KHz to measure the peak field strength, and measure frequeny range from 9KHz to 26.5GHz.

#### 7.7.5 Test Results

Remark: The measurement frequency range is from 9KHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions and bandege measurement data.

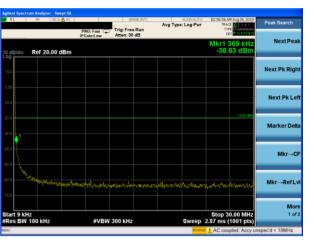
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## **Test Plot**

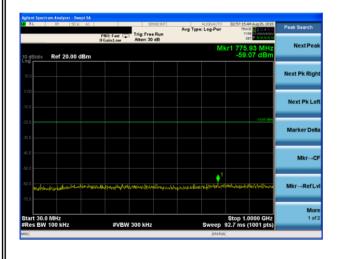
## GFSK on channel 00



## GFSK on channel 00



## GFSK on channel 00



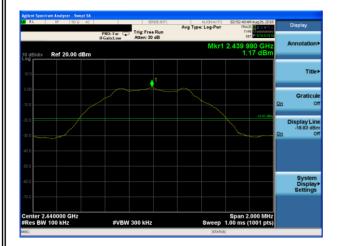
## GFSK on channel 00



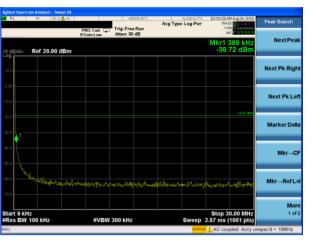
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## **Test Plot**

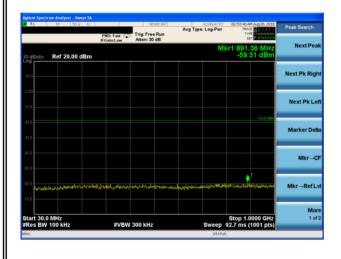
## GFSK on channel 19



## GFSK on channel 19



## GFSK on channel 19



## GFSK on channel 19



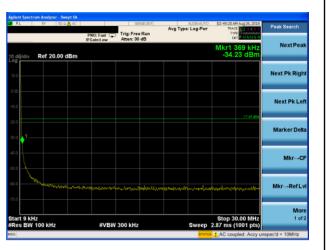
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## **Test Plot**

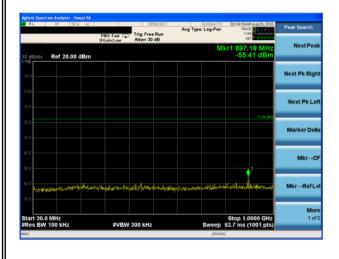
## GFSK on channel 39



## GFSK on channel 39



## GFSK on channel 39



## GFSK on channel 39



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#### 7.8 ANTENNA APPLICATION

## 7.8.1 Antenna Requirement

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

## 7.8.2 **Result**

The EUT antenna is permanent attached FPCB antenna(Gain:1dBi). It comply with the standard requirement.

END OF REPORT

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