



FCC Part 15C Test Report

FCC ID: ZHZLHT65S-E3

Applicant: Dragino Technology Co., Limited

Address: Room 202, Block B, BCT Incubation Bases, No.8 CaiYunRoad LongCheng Street, LongGang District ; Shenzhen 518116,China

Manufacturer: Dragino Technology Co., Limited

Address: Room 202, Block B, BCT Incubation Bases, No.8 CaiYunRoad LongCheng Street, LongGang District ; Shenzhen 518116,China

EUT: Temperature & Humidity Sensor

Trade Mark: Dragino

Model Number: LHT65S-E3, LHT65S, LHT65S-NE117, LHT65S-E5, LHT65S-PIR, LHT65S-E31F, LHT65N, LHT65N-NE117, LHT65N-E3, LHT65N-E5, LHT65N-PIR, LHT65N-E31F

Date of Receipt: Apr. 07, 2025

Test Date: Apr. 07, 2025 - Apr. 23, 2025

Date of Report: Apr. 24, 2025

Prepared By: Shenzhen DL Testing Technology Co., Ltd.

Address: 101-201, Comprehensive Building, Tongzhou Electronics Longgang Factory Area, No.1 Baolong Fifth Road, Baolong Community, Baolong Street, Longgang District, Shenzhen, China

Applicable Standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247

Test Result: Pass

Report Number: DLE-250429009R

Prepared (Test Engineer): Ken Tan

Reviewer (Supervisor): Jack Bu

Approved (Manager): Jade Yang



This test report is based on a single evaluation of one sample of above mentioned products. It is not permitted to be duplicated in extracts without written approval of Shenzhen DL Testing Technology Co., Ltd.



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1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

Test Item	Section in CFR 47	Result
Antenna Requirement	15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	15.207	N/A
Conducted Peak Output Power	15.247 (b)(1)	Pass
-20dB Occupied Bandwidth & -6dB Occupied Bandwidth	15.247 (a)(1)	Pass
Carrier Frequencies Separation	15.247 (a)(1)	Pass
Hopping Channel Number	15.247 (a)(i)	Pass
Dwell Time	15.247 (a)(1)	Pass
Power Spectral Density	15.247 (e)	Pass
Emissions in non-restricted frequency bands	15.247(b)(4)	Pass
Radiated Emission	15.205/15.209	Pass
Band Edge	15.247(d)	Pass

NOTE:

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

Test lab: Shenzhen DL Testing Technology Co., Ltd.

Address: 101-201, Comprehensive Building, Tongzhou Electronics Longgang Factory Area, No.1
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China

FCC Test Firm Registration Number: 854456

Designation Number: CN1307

IC Registered No.: 27485

CAB ID.: CN0118

1.1 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded 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	$\pm 2.56\text{dB}$
2	RF power, conducted	$\pm 0.42\text{dB}$
3	Spurious emissions, conducted	$\pm 2.76\text{dB}$
4	All emissions, radiated (<1G)	$\pm 3.65\text{dB}$
5	All emissions, radiated (>1G)	$\pm 4.89\text{dB}$
6	Temperature	$\pm 0.5^\circ\text{C}$
7	Humidity	$\pm 2\%$
8	6dB Bandwidth	$\pm 0.2\text{MHz}$
9	Power Spectral Density	$\pm 2.45\text{dBm}$



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Product Name:	Temperature & Humidity Sensor
Trademark	Dragino
Test Model	LHT65S-E3
Model No.:	LHT65S-E3, LHT65S, LHT65S-NE117, LHT65S-E5, LHT65S-PIR, LHT65S-E31F, LHT65N, LHT65N-NE117, LHT65N-E3, LHT65N-E5, LHT65N-PIR, LHT65N-E31F
Model Difference	All the model are the same circuit and RF module. The only difference is the external sensor.
Operation Frequency:	902.3MHz~914.9MHz for 125KHz bandwidth 903.0MHz~914.2MHz for 500KHz bandwidth
Channel numbers:	64 for 125KHz bandwidth 8 for 500KHz bandwidth
Channel separation:	200KHz for 125KHz bandwidth 1.6MHz for 500KHz bandwidth
Modulation type:	125KHz bandwidth:FHSS 500KHz bandwidth:DTS
Antenna Type:	External Antenna
Antenna gain:	2.0 dBi
Power Supply:	DC 3V by Lithium Battery

Note:

- 1.For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- 2.The EUT's all information provided by client.



2. 125KHz for FHSS:

Operation Frequency each of channel							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	902.3	17	905.5	33	908.7	49	911.9
2	902.5	18	905.7	34	908.9	50	912.1
3	902.7	19	905.9	35	909.1	51	912.3
4	902.9	20	906.1	36	909.3	52	912.5
.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.
13	904.7	29	907.9	45	911.1	61	914.3
14	904.9	30	908.1	46	911.3	62	914.5
15	905.1	31	908.3	47	911.5	63	914.7
16	905.3	32	908.5	48	911.7	64	914.9

Channel	Frequency(200KHz)
The lowest channel	902.30MHz
The middle channel	908.50MHz
The Highest channel	914.90MHz

500KHz for DTS:

Operation Frequency each of channel					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	903.0	4	907.8	7	912.6
2	904.6	5	909.4	8	914.2
3	906.2	6	911.0		

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(1.6MHz)
The lowest channel	903.0MHz
The middle channel	909.4MHz
The Highest channel	914.2MHz

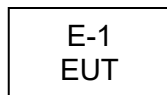
2.2 DESCRIPTION OF TEST MODES

Transmitting mode	Keep the EUT in continuously transmitting mode.
Remark: During the test, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition' s data.	



2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated Spurious Emission Test



2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

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

Item	Equipment	Model/Type No.	Series No.	Note
E-1	Temperature & Humidity Sensor	LHT65S-E3	N/A	EUT

Item	Shielded Type	Ferrite Core	Length	Note

Note:

- (1) For detachable type I/O cable should be specified the length in cm in 『Length』 column.



2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation test, Band-edge test and 6db bandwidth test equipment

Item	Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	Spectrum Analyzer (9kHz-26.5GHz)	Agilent	E4408B	MY50140780	Nov. 01, 2024	Oct. 31, 2025
2	Test Receiver (9kHz-7GHz)	R&S	ESRP7	101393	Nov. 01, 2024	Oct. 31, 2025
3	Bilog Antenna (30MHz-1GHz)	R&S	VULB9162	00306	Nov. 01, 2024	Oct. 31, 2025
4	Horn Antenna (1GHz-18GHz)	Schwarzbeck	BBHA9120D	02139	Nov. 01, 2024	Oct. 31, 2025
5	Horn Antenna (18GHz-40GHz)	A.H. Systems	SAS-574	588	Nov. 01, 2024	Oct. 31, 2025
6	Amplifier (9KHz-6GHz)	Schwarzbeck	BBV9743B	00153	Nov. 01, 2024	Oct. 31, 2025
7	Amplifier (1GHz-18GHz)	EMEC	EM01G8GA	00270	Nov. 01, 2024	Oct. 31, 2025
8	Amplifier (18GHz-40GHz)	Quanjuda	DLE-161	97	Nov. 01, 2024	Oct. 31, 2025
9	Loop Antenna (9KHz-30MHz)	Schwarzbeck	FMZB1519B	00014	Nov. 01, 2024	Oct. 31, 2025
10	RF cables1 (9kHz-1GHz)	ChengYu	966	004	Nov. 01, 2024	Oct. 31, 2025
11	RF cables2 (1GHz-40GHz)	ChengYu	966	003	Nov. 01, 2024	Oct. 31, 2025
12	Antenna connector	Florida RF Labs	N/A	RF 01#	Nov. 01, 2024	Oct. 31, 2025
13	Power probe	KEYSIGHT	U2021XA	MY55210018	Nov. 01, 2024	Oct. 31, 2025
14	Signal Analyzer 9kHz-26.5GHz	Agilent	N9020A	MY55370280	Nov. 01, 2024	Oct. 31, 2025
15	Test Receiver 20kHz-40GHz	R&S	ESU 40	100376	Nov. 01, 2024	Oct. 31, 2025
16	D.C. Power Supply	LongWei	PS-305D	010964729	Nov. 01, 2024	Oct. 31, 2025
17	Power Meter	Ceyear	2438PA/PB	/	Nov. 01, 2024	Oct. 31, 2025
18	Peak/continuous wave power probe	Ceyear	81702F	/	Nov. 01, 2024	Oct. 31, 2025

Conduction Test equipment

Item	Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	843 Shielded Room	YIHENG	843 Room	843	Nov. 05, 2023	Nov. 04, 2026
2	EMI Receiver	R&S	ESR	101421	Nov. 01, 2024	Oct. 31, 2025
3	LISN	R&S	ENV216	102417	Nov. 01, 2024	Oct. 31, 2025
4	843 Cable 1#	ChengYu	CE Cable	001	Nov. 01, 2024	Oct. 31, 2025

Other

Item	Name	Manufacturer	Model	Software version
1	EMC Conduction Test System	FALA	EZ_EMCC	EMC-CON 3A1.1
2	EMC radiation test system	FALA	EZ_EMCC	FA-03A2
3	RF test system	MAIWEI	MTS8310	2.0.0.0
4	RF communication test system	MAIWEI	MTS8200	2.0.0.0



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Limit (dBuV)		Standard
	Quasi-peak	Average	
0.15 -0.50	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	56.00	46.00	FCC
5.0 -30.0	60.00	50.00	FCC

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

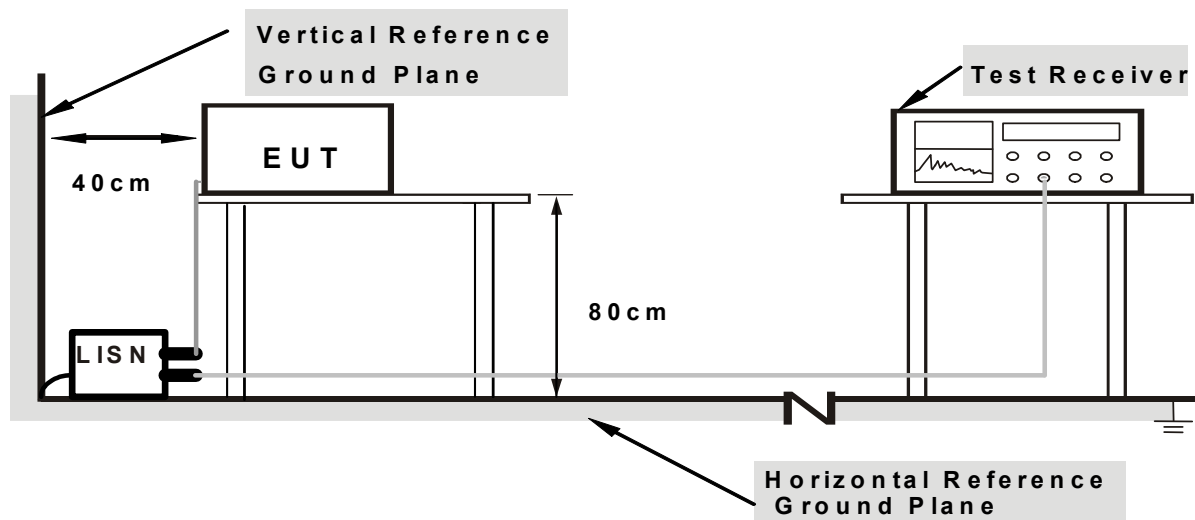
3.1.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.1.3 DEVIATION FROM TEST STANDARD

No deviation

3.1.4 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

3.1.5 EUT OPERATING CONDITIONS

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

We pretest AC 120V and AC 230V, the worst voltage was AC 120V and the data recording in the report.

3.1.6 TEST RESULTS

N/A

Note : EUT is powered by DC3V lithium battery. Not applicable to this test



3.2 RADIATED EMISSION MEASUREMENT

3.2.1 RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

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.

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

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

Notes:

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

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	25GHz
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



3.2.2 TEST PROCEDURE

Below 1GHz test procedure as below:

- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 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.

Above 1GHz test procedure as below:

- Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 metre to 1.5 metre.
- Test the EUT in the lowest channel, the middle channel, the Highest channel

Note:

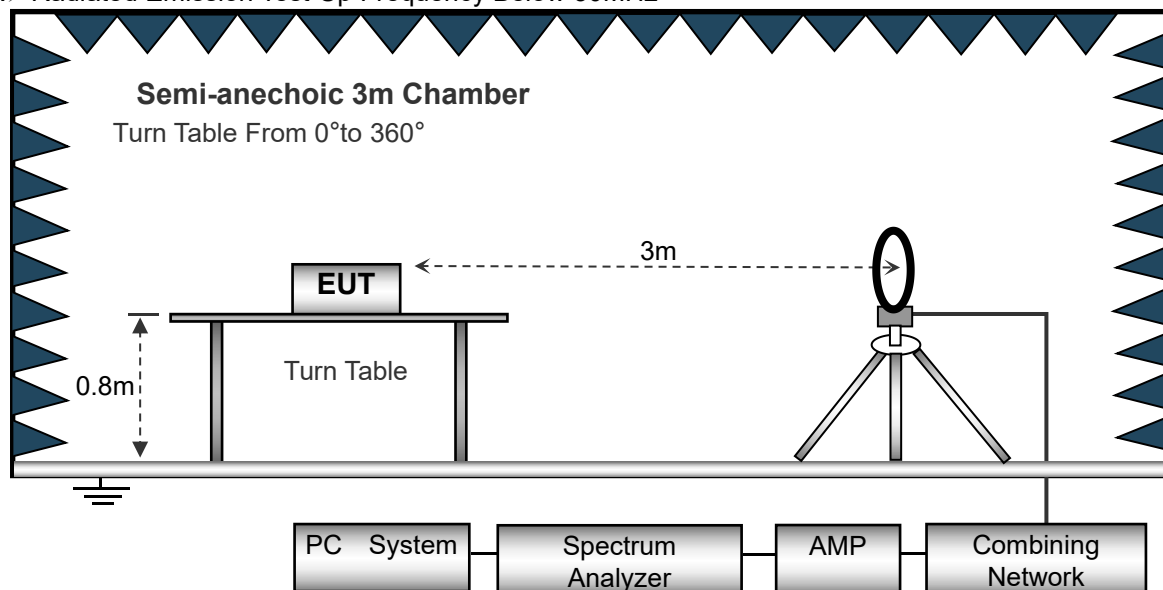
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

3.2.3 DEVIATION FROM TEST STANDARD

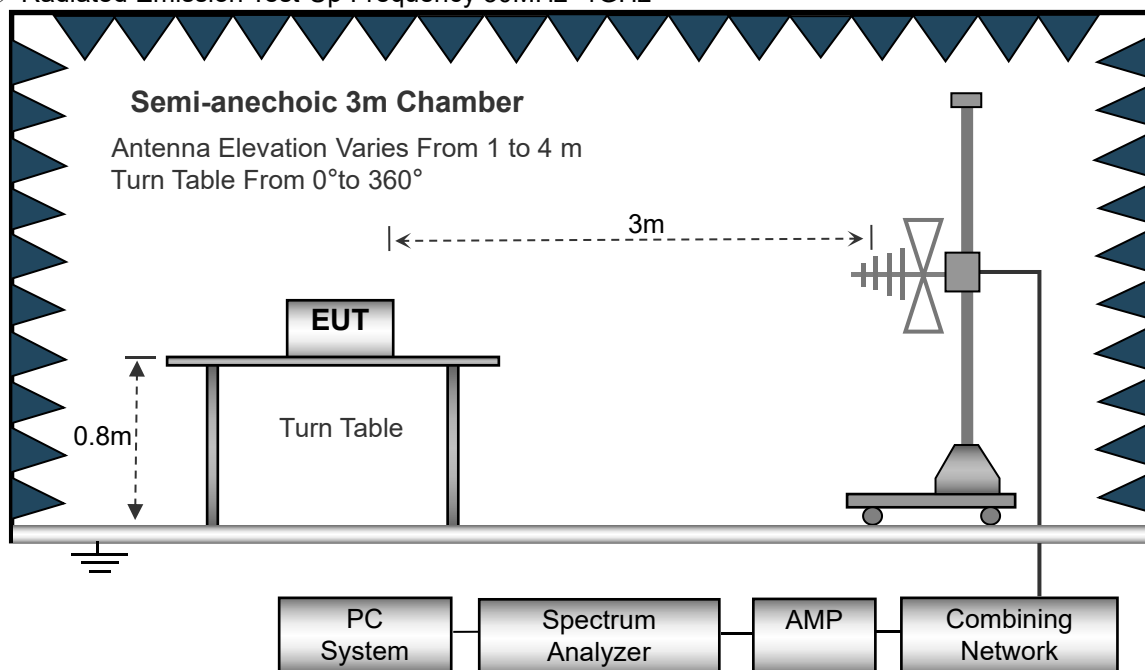
No deviation

3.2.4 TEST SETUP

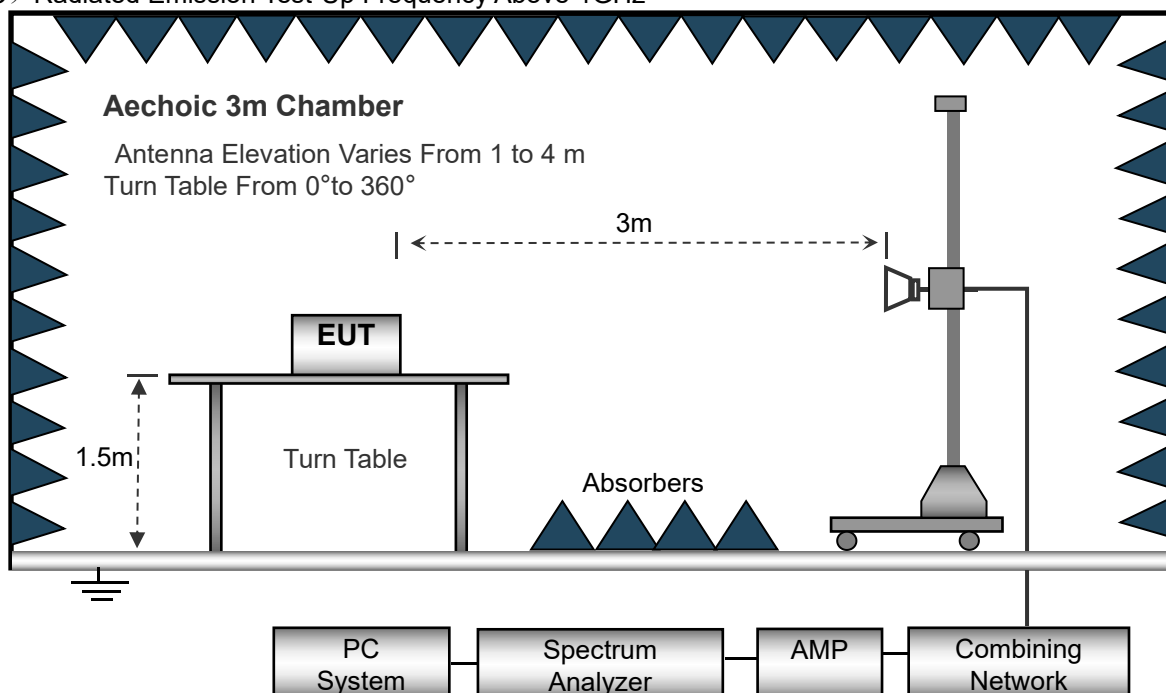
(A) Radiated Emission Test-Up Frequency Below 30MHz



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



(C) Radiated Emission Test-Up Frequency Above 1GHz



3.2.5 EUT OPERATING CONDITIONS

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

**3.2.6 TEST RESULTS (BETWEEN 9KHZ – 30 MHZ)**

Temperature:	20℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 3V
Test Mode :	Mode 1	Polarization :	--

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
--	--	--	--	PASS
--	--	--	--	PASS

NOTE:

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

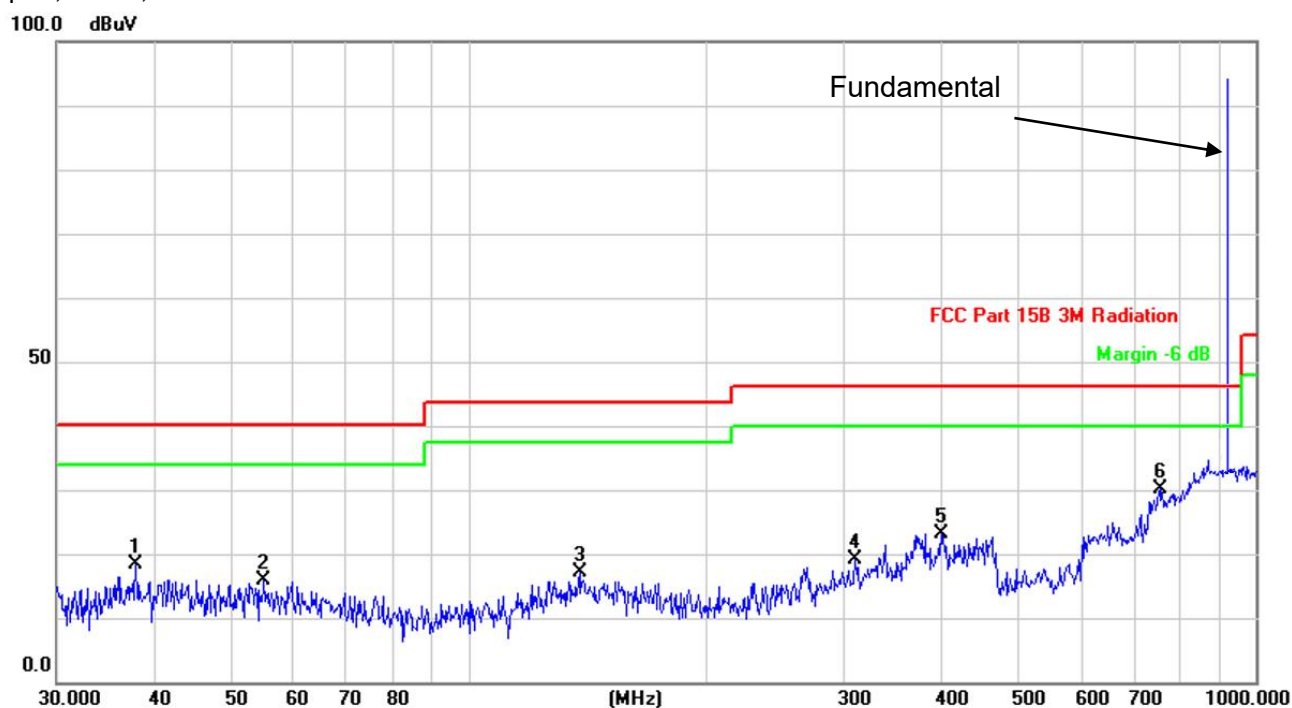
Distance extrapolation factor = $40 \log (\text{specific distance/test distance})$ (dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.

**3.2.7 TEST RESULTS (BETWEEN 30MHZ – 1GHZ)**

Temperature:	26℃	Relative Humidity:	54%
Pressure:	1010 hPa	Polarization :	Horizontal
Test Voltage :	DC 3V by Lithium Battery		
Test Mode :	Transmitting mode for 125KHz		

Note : Under the condition of 125KHz bandwidth, pre-scan all channels and record the worst-case results in this report, that is, the results of the lowest channel.



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		37.8121	28.58	-10.31	18.27	40.00	-21.73	QP
2		55.0274	26.54	-10.65	15.89	40.00	-24.11	QP
3		138.3873	27.11	-9.99	17.12	43.50	-26.38	QP
4		309.9977	27.41	-8.40	19.01	46.00	-26.99	QP
5		399.0300	29.28	-6.17	23.11	46.00	-22.89	QP
6	*	755.3872	28.82	1.43	30.25	46.00	-15.75	QP

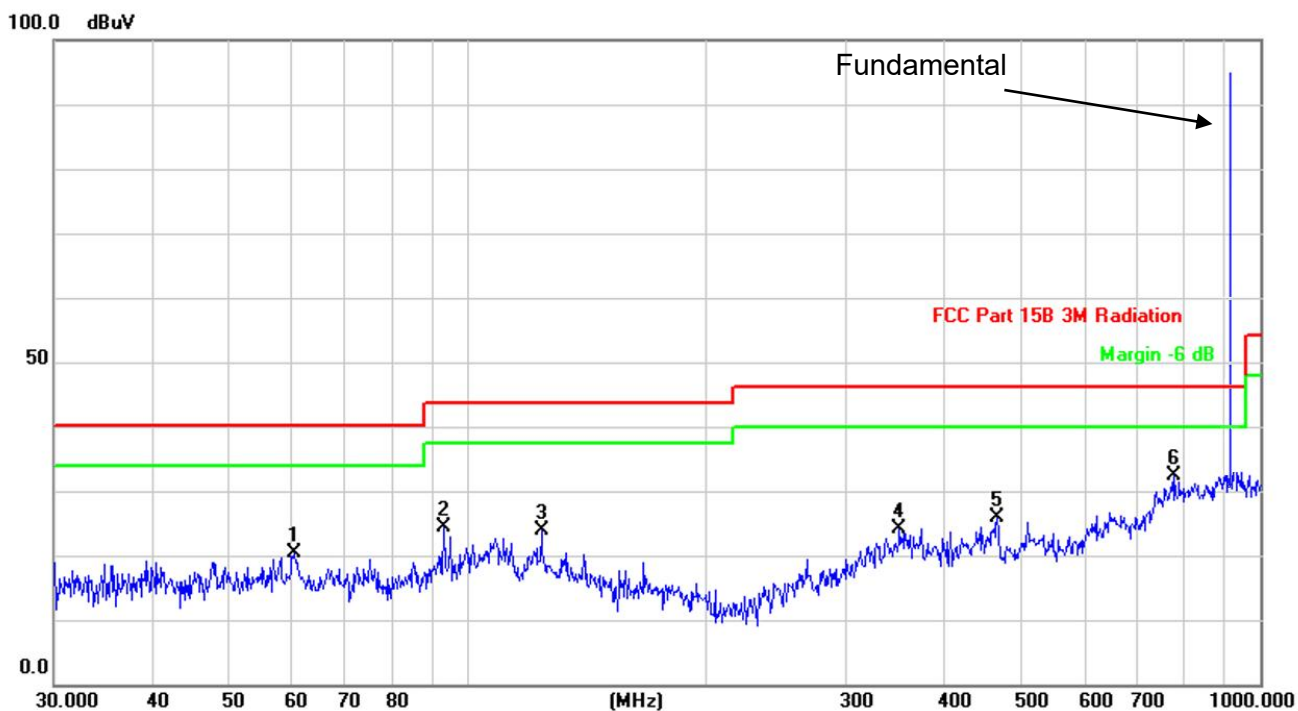
Remark:

Correct Factor = Cable loss + Antenna factor – Preamplifier;

Level = Reading Level + Correct Factor; Margin = Level - Limit;



Temperature:	26°C	Relative Humidity:	54%
Pressure:	1010 hPa	Polarization :	Vertical
Test Voltage :	DC 3V by Lithium Battery		
Test Mode :	Transmitting mode for 125KHz		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		60.2800	31.52	-11.20	20.32	40.00	-19.68	QP
2		93.1131	38.71	-14.26	24.45	43.50	-19.05	QP
3		123.6984	34.88	-11.11	23.77	43.50	-19.73	QP
4		350.4766	31.62	-7.41	24.21	46.00	-21.79	QP
5		465.5994	30.95	-5.19	25.76	46.00	-20.24	QP
6	*	779.6067	30.41	1.88	32.29	46.00	-13.71	QP

Remark:

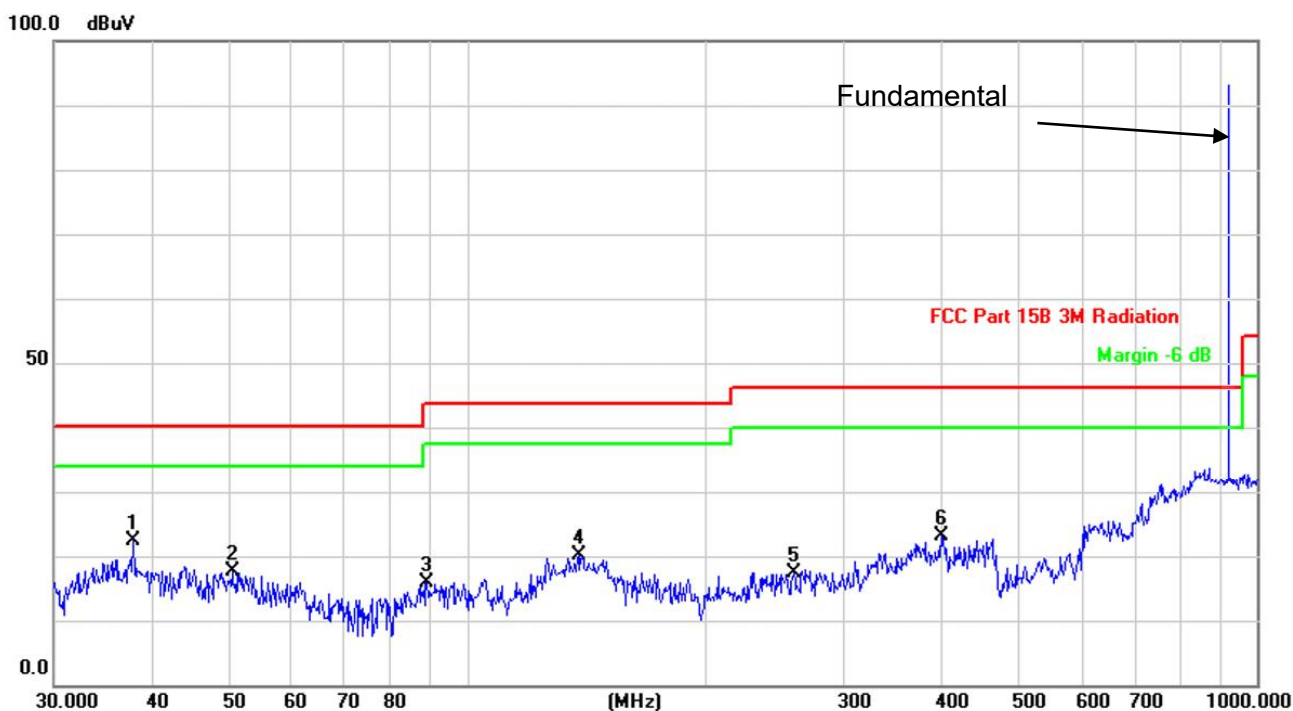
Correct Factor = Cable loss + Antenna factor – Preamplifier;

Level = Reading Level + Correct Factor; Margin = Level - Limit;



Temperature:	26°C	Relative Humidity:	54%
Pressure:	1010 hPa	Polarization :	Horizontal
Test Voltage :	DC 3V by Lithium Battery		
Test Mode :	Transmitting mode for 500KHz		

Note : Under the condition of 500 KHz bandwidth, pre-scan all channels and record the worst-case results in this report, that is, the results of the lowest channel.



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1	*	37.8121	32.58	-10.31	22.27	40.00	-17.73	QP
2		50.4090	28.17	-10.46	17.71	40.00	-22.29	QP
3		88.9637	30.35	-14.41	15.94	43.50	-27.56	QP
4		138.3873	30.11	-9.99	20.12	43.50	-23.38	QP
5		259.2336	27.47	-10.00	17.47	46.00	-28.53	QP
6		399.0300	29.28	-6.17	23.11	46.00	-22.89	QP

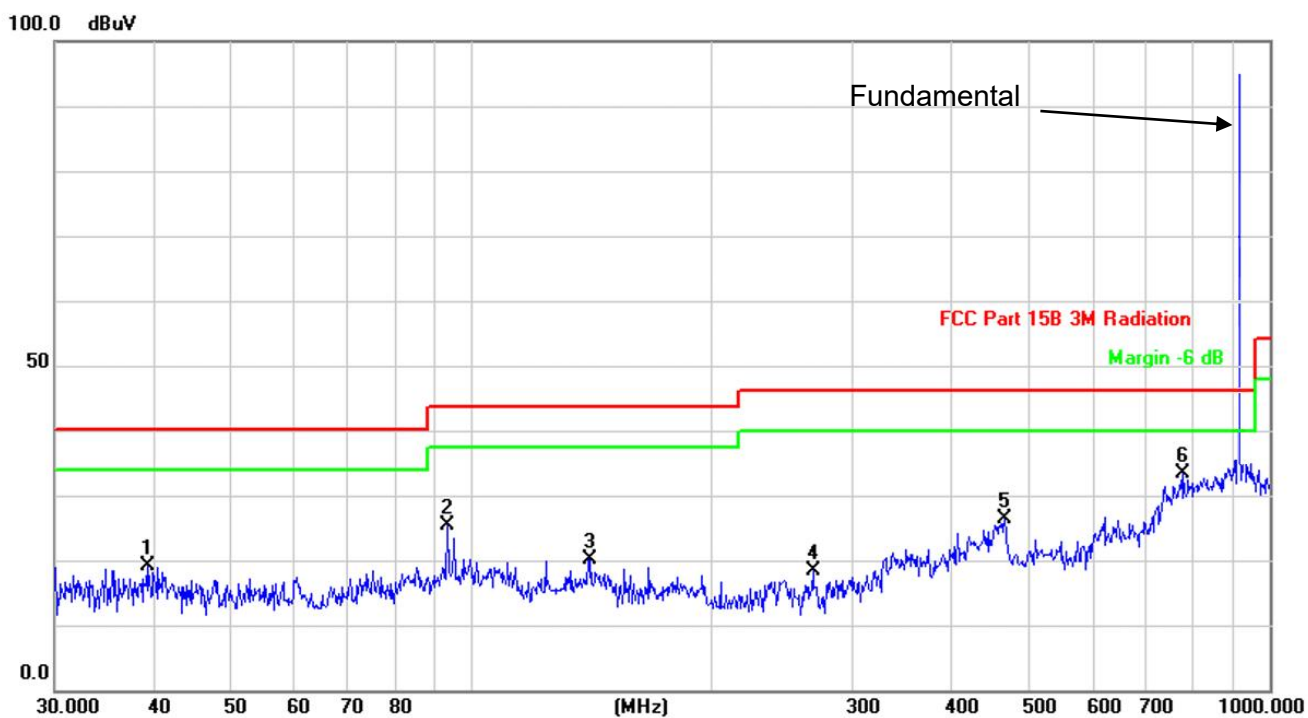
Remark:

Correct Factor = Cable loss + Antenna factor – Preamplifier;

Level = Reading Level + Correct Factor; Margin = Level - Limit;



Temperature:	26°C	Relative Humidity:	54%
Pressure:	1010 hPa	Polarization :	Vertical
Test Voltage :	DC 3V by Lithium Battery		
Test Mode :	Transmitting mode for 500KHz		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		39.1613	29.39	-10.15	19.24	40.00	-20.76	QP
2		93.1131	39.71	-14.26	25.45	43.50	-18.05	QP
3		140.8350	30.19	-9.94	20.25	43.50	-23.25	QP
4		267.5452	28.27	-9.87	18.40	46.00	-27.60	QP
5		465.5994	31.45	-5.19	26.26	46.00	-19.74	QP
6	*	779.6067	31.41	1.88	33.29	46.00	-12.71	QP

Remark:

Correct Factor = Cable loss + Antenna factor – Preamplifier;

Level = Reading Level + Correct Factor; Margin = Level - Limit;

**3.2.8 TEST RESULTS (ABOVE 1GHZ)**

Test channel:	Lowest channel
---------------	----------------

125KHz**Peak value:**

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
1804.60	40.75	25.25	4.85	34.08	36.77	74.00	-37.23	Vertical
2706.90	35.93	28.12	5.66	33.68	36.03	74.00	-37.97	Vertical
3609.20	32.19	29.19	7.25	37.37	31.26	74.00	-42.74	Vertical
4511.50	*	*	*	*	*	74.00	*	Vertical
5413.80	*	*	*	*	*	74.00	*	Vertical
6316.10	*	*	*	*	*	74.00	*	Vertical
1804.60	40.97	25.25	4.85	34.08	36.99	74.00	-37.01	Horizontal
2706.90	35.59	28.12	5.66	33.68	35.69	74.00	-38.31	Horizontal
3609.20	33.44	29.19	7.25	37.37	32.51	74.00	-41.49	Horizontal
4511.50	*	*	*	*	*	74.00	*	Horizontal
5413.80	*	*	*	*	*	74.00	*	Horizontal
6316.10	*	*	*	*	*	74.00	*	Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
1804.60	31.23	25.25	4.85	34.08	27.25	54.00	-26.75	Vertical
2706.90	24.34	28.12	5.66	33.68	24.44	54.00	-29.56	Vertical
3609.20	24.84	29.19	7.25	37.37	23.91	54.00	-30.09	Vertical
4511.50	*	*	*	*	*	54.00	*	Vertical
5413.80	*	*	*	*	*	54.00	*	Vertical
6316.10	*	*	*	*	*	54.00	*	Vertical
1804.60	30.33	25.25	4.85	34.08	26.35	54.00	-27.65	Horizontal
2706.90	24.55	28.12	5.66	33.68	24.65	54.00	-29.35	Horizontal
3609.20	23.98	29.19	7.25	37.37	23.05	54.00	-30.95	Horizontal
4511.50	*	*	*	*	*	54.00	*	Horizontal
5413.80	*	*	*	*	*	54.00	*	Horizontal
6316.10	*	*	*	*	*	54.00	*	Horizontal

Remarks:

1. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor*
2. *The emission levels of other frequencies are very lower than the limit and not show in test report.*
3. *“*” means this data is too weak instrument of signal is unable to test.*



Test channel:	Middle
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
1817.00	41.34	25.43	4.89	34.12	37.54	74.00	-36.46	Vertical
2725.50	36.52	28.34	5.68	33.57	36.97	74.00	-37.03	Vertical
3634.00	32.78	29.42	7.29	37.66	31.83	74.00	-42.17	Vertical
4542.50	*	*	*	*	*	74.00	*	Vertical
5451.00	*	*	*	*	*	74.00	*	Vertical
6359.50	*	*	*	*	*	74.00	*	Vertical
1817.00	41.42	25.43	4.89	34.12	37.62	74.00	-36.38	Horizontal
2725.50	36.6	28.34	5.68	33.57	37.05	74.00	-36.95	Horizontal
3634.00	32.86	29.42	7.29	37.66	31.91	74.00	-42.09	Horizontal
4542.50	*	*	*	*	*	74.00	*	Horizontal
5451.00	*	*	*	*	*	74.00	*	Horizontal
6359.50	*	*	*	*	*	74.00	*	Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
1829.80	32.15	25.43	4.89	34.12	28.35	54.00	-25.65	Vertical
2744.70	24.33	28.34	5.68	33.57	24.78	54.00	-29.22	Vertical
3659.60	24.5	29.42	7.29	37.66	23.55	54.00	-30.45	Vertical
4574.50	*	*	*	*	*	54.00	*	Vertical
5489.40	*	*	*	*	*	54.00	*	Vertical
6404.30	*	*	*	*	*	54.00	*	Vertical
1829.80	31.84	25.43	4.89	34.12	28.04	54.00	-25.65	Horizontal
2744.70	23.96	28.34	5.68	33.57	24.41	54.00	-29.22	Horizontal
3659.60	24.71	29.42	7.29	37.66	23.76	54.00	-30.45	Horizontal
4574.50	*	*	*	*	*	54.00	*	Horizontal
5489.40	*	*	*	*	*	54.00	*	Horizontal
6404.30	*	*	*	*	*	54.00	*	Horizontal

Remarks:

1. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor*
2. *The emission levels of other frequencies are very lower than the limit and not show in test report.*
3. *“*”, means this data is the too weak instrument of signal is unable to test.*



Test channel:	Highest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
1829.80	41.38	25.43	4.89	34.12	37.58	74.00	-36.42	Vertical
2744.70	36.95	28.34	5.68	33.57	37.4	74.00	-36.6	Vertical
3659.60	35.17	29.42	7.29	37.66	34.22	74.00	-39.78	Vertical
4574.50	*	*	*	*	*	74.00	*	Vertical
5489.40	*	*	*	*	*	74.00	*	Vertical
6404.30	*	*	*	*	*	74.00	*	Vertical
1829.80	41.77	25.43	4.89	34.12	37.97	74.00	-36.03	Horizontal
2744.70	37.86	28.34	5.68	33.57	38.31	74.00	-35.69	Horizontal
3659.60	35.53	29.42	7.29	37.66	34.58	74.00	-39.42	Horizontal
4574.50	*	*	*	*	*	74.00	*	Horizontal
5489.40	*	*	*	*	*	74.00	*	Horizontal
6404.30	*	*	*	*	*	74.00	*	Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
1829.80	32.15	25.43	4.89	34.12	28.35	54.00	-25.65	Vertical
2744.70	24.33	28.34	5.68	33.57	24.78	54.00	-29.22	Vertical
3659.60	24.5	29.42	7.29	37.66	23.55	54.00	-30.45	Vertical
4574.50	*	*	*	*	*	54.00	*	Vertical
5489.40	*	*	*	*	*	54.00	*	Vertical
6404.30	*	*	*	*	*	54.00	*	Vertical
1829.80	31.84	25.43	4.89	34.12	28.04	54.00	-25.96	Horizontal
2744.70	23.96	28.34	5.68	33.57	24.41	54.00	-29.59	Horizontal
3659.60	24.71	29.42	7.29	37.66	23.76	54.00	-30.24	Horizontal
4574.50	*	*	*	*	*	54.00	*	Horizontal
5489.40	*	*	*	*	*	54.00	*	Horizontal
6404.30	*	*	*	*	*	54.00	*	Horizontal

Remarks:

4. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor*
5. *The emission levels of other frequencies are very lower than the limit and not show in test report.*
6. *“*” , means this data is the too weak instrument of signal is unable to test.*



Test channel:	Lowest channel
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500KHz**Peak value:**

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
1806.00	41.06	25.25	4.85	34.08	37.08	74.00	-36.92	Vertical
2709.00	36.24	28.12	5.66	33.68	36.34	74.00	-37.66	Vertical
3612.00	32.5	29.19	7.25	37.37	31.57	74.00	-42.43	Vertical
4515.00	*	*	*	*	*	74.00	*	Vertical
5418.00	*	*	*	*	*	74.00	*	Vertical
6321.00	*	*	*	*	*	74.00	*	Vertical
1806.00	40.91	25.25	4.85	34.08	36.93	74.00	-37.07	Horizontal
2709.00	36.09	28.12	5.66	33.68	36.19	74.00	-37.81	Horizontal
3612.00	32.35	29.19	7.25	37.37	31.42	74.00	-42.58	Horizontal
4515.00	*	*	*	*	*	74.00	*	Horizontal
5418.00	*	*	*	*	*	74.00	*	Horizontal
6321.00	*	*	*	*	*	74.00	*	Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
1806.00	39.76	25.25	4.85	34.08	35.78	54.00	-18.22	Vertical
2709.00	34.94	28.12	5.66	33.68	35.04	54.00	-18.96	Vertical
3612.00	31.2	29.19	7.25	37.37	30.27	54.00	-23.73	Vertical
4515.00	*	*	*	*	*	54.00	*	Vertical
5418.00	*	*	*	*	*	54.00	*	Vertical
6321.00	*	*	*	*	*	54.00	*	Vertical
1806.00	39.94	25.25	4.85	34.08	35.96	54.00	-18.04	Horizontal
2709.00	35.12	28.12	5.66	33.68	35.22	54.00	-18.78	Horizontal
3612.00	31.38	29.19	7.25	37.37	30.45	54.00	-23.55	Horizontal
4515.00	*	*	*	*	*	54.00	*	Horizontal
5418.00	*	*	*	*	*	54.00	*	Horizontal
6321.00	*	*	*	*	*	54.00	*	Horizontal

Remarks:

4. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor*
5. *The emission levels of other frequencies are very lower than the limit and not show in test report.*
6. *“*” means this data is too weak instrument of signal is unable to test.*



Test channel:	Middle
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
1818.80	43.65	25.25	4.85	34.08	39.67	74.00	-34.33	Vertical
2728.20	38.83	28.12	5.66	33.68	38.93	74.00	-35.07	Vertical
3637.60	35.09	29.19	7.25	37.37	34.16	74.00	-39.84	Vertical
4547.00	*	*	*	*	*	74.00	*	Vertical
5456.40	*	*	*	*	*	74.00	*	Vertical
6365.80	*	*	*	*	*	74.00	*	Vertical
1818.80	44.25	25.25	4.85	34.08	40.27	74.00	-33.73	Horizontal
2728.20	39.43	28.12	5.66	33.68	39.53	74.00	-34.47	Horizontal
3637.60	35.69	29.19	7.25	37.37	34.76	74.00	-39.24	Horizontal
4547.00	*	*	*	*	*	74.00	*	Horizontal
5456.40	*	*	*	*	*	74.00	*	Horizontal
6365.80	*	*	*	*	*	74.00	*	Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
1818.80	39.55	25.25	4.85	34.08	35.57	54.00	-18.43	Vertical
2728.20	34.73	28.12	5.66	33.68	34.83	54.00	-19.17	Vertical
3637.60	30.99	29.19	7.25	37.37	30.06	54.00	-23.94	Vertical
4547.00	*	*	*	*	*	54.00	*	Vertical
5456.40	*	*	*	*	*	54.00	*	Vertical
6365.80	*	*	*	*	*	54.00	*	Vertical
1818.80	40.01	25.25	4.85	34.08	36.03	54.00	-17.97	Horizontal
2728.20	35.19	28.12	5.66	33.68	35.29	54.00	-18.71	Horizontal
3637.60	31.45	29.19	7.25	37.37	30.52	54.00	-23.48	Horizontal
4547.00	*	*	*	*	*	54.00	*	Horizontal
5456.40	*	*	*	*	*	54.00	*	Horizontal
6365.80	*	*	*	*	*	54.00	*	Horizontal

Remarks:

7. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor*
8. *The emission levels of other frequencies are very lower than the limit and not show in test report.*
9. *“*”, means this data is the too weak instrument of signal is unable to test.*



Test channel:	Highest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
1829.80	41.34	25.43	4.89	34.12	37.36	74.00	-36.64	Vertical
2744.70	36.52	28.34	5.68	33.57	36.62	74.00	-37.38	Vertical
3659.60	32.78	29.42	7.29	37.66	31.85	74.00	-42.15	Vertical
4574.50	*	*	*	*	*	74.00	*	Vertical
5489.40	*	*	*	*	*	74.00	*	Vertical
6404.30	*	*	*	*	*	74.00	*	Vertical
1829.80	41.52	25.43	4.89	34.12	37.54	74.00	-36.46	Horizontal
2744.70	36.7	28.34	5.68	33.57	36.8	74.00	-37.2	Horizontal
3659.60	32.96	29.42	7.29	37.66	32.03	74.00	-41.97	Horizontal
4574.50	*	*	*	*	*	74.00	*	Horizontal
5489.40	*	*	*	*	*	74.00	*	Horizontal
6404.30	*	*	*	*	*	74.00	*	Horizontal

Average value:

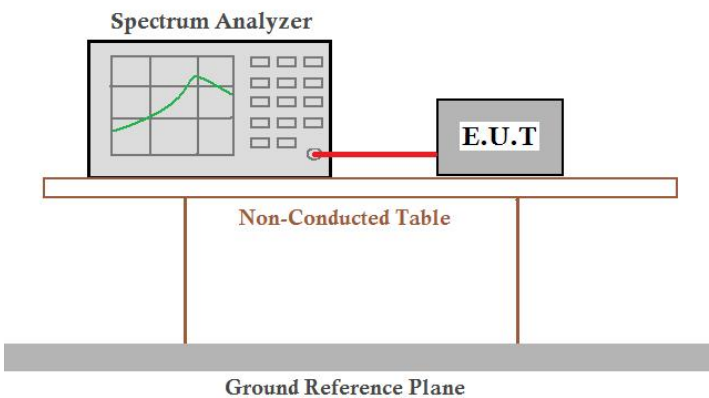
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
1829.80	41.21	25.43	4.89	34.12	37.23	54.00	-16.77	Vertical
2744.70	36.39	28.34	5.68	33.57	36.49	54.00	-17.51	Vertical
3659.60	32.65	29.42	7.29	37.66	31.72	54.00	-22.28	Vertical
4574.50	*	*	*	*	*	54.00	*	Vertical
5489.40	*	*	*	*	*	54.00	*	Vertical
6404.30	*	*	*	*	*	54.00	*	Vertical
1829.80	40.88	25.43	4.89	34.12	36.9	54.00	-17.1	Horizontal
2744.70	36.06	28.34	5.68	33.57	36.16	54.00	-17.84	Horizontal
3659.60	32.32	29.42	7.29	37.66	31.39	54.00	-22.61	Horizontal
4574.50	*	*	*	*	*	54.00	*	Horizontal
5489.40	*	*	*	*	*	54.00	*	Horizontal
6404.30	*	*	*	*	*	54.00	*	Horizontal

Remarks:

7. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
8. The emission levels of other frequencies are very lower than the limit and not show in test report.
9. “*”, means this data is the too weak instrument of signal is unable to test.



4. CONDUCTED PEAK OUTPUT POWER

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	ANSI C63.10:2013
Limit:	30dBm
Test setup:	
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

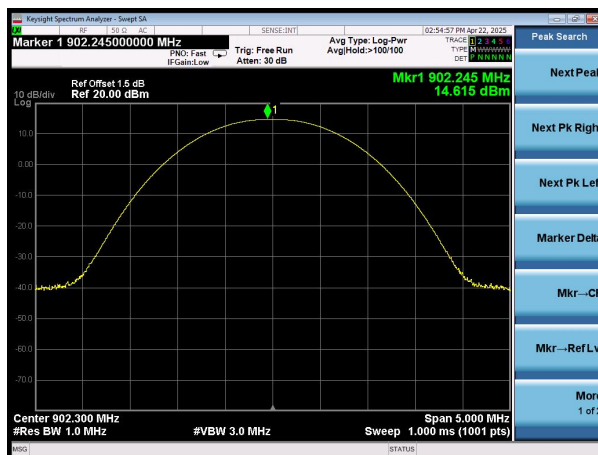
Measurement Data:

Mode	Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
125KHz Bandwidth	Lowest	14.615	30.00	Pass
	Middle	14.393		
	Highest	14.565		
500KHz Bandwidth	Lowest	11.691		Pass
	Middle	12.024		
	Highest	11.968		

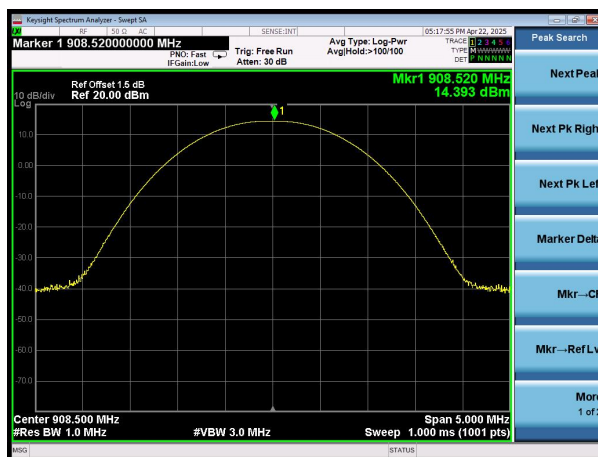


125KHz:

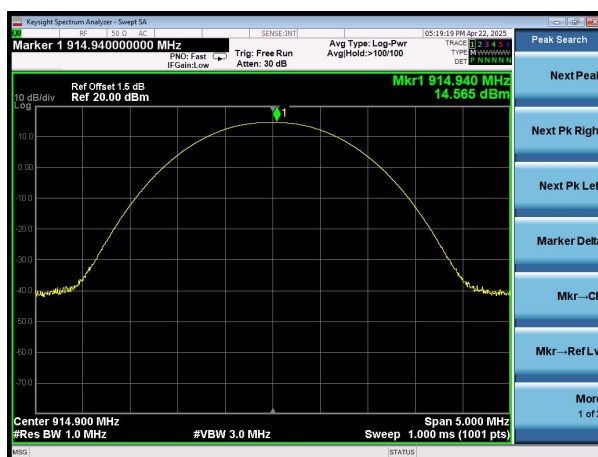
Test plot as follows:



Lowest channel



Middle channel

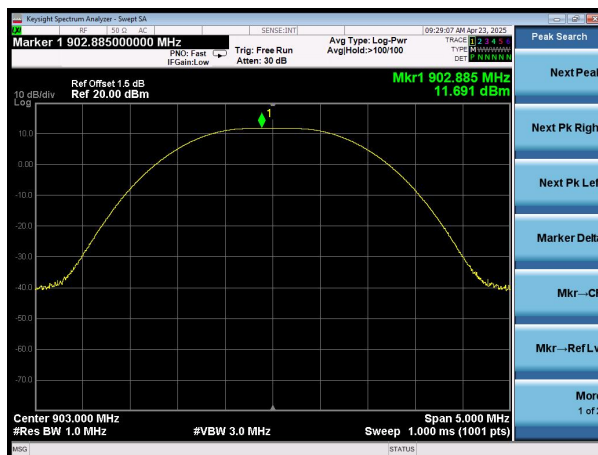


Highest channel

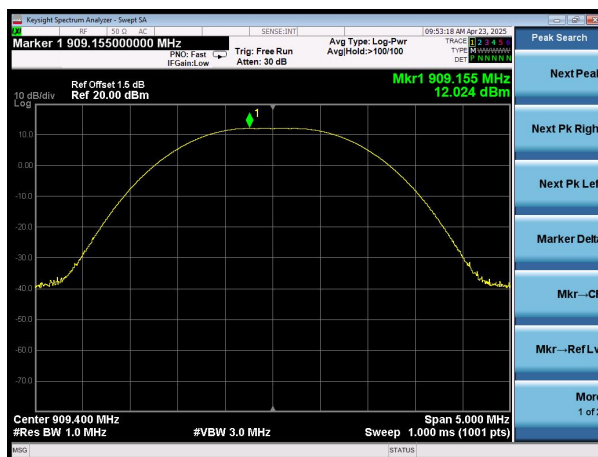


500KHz:

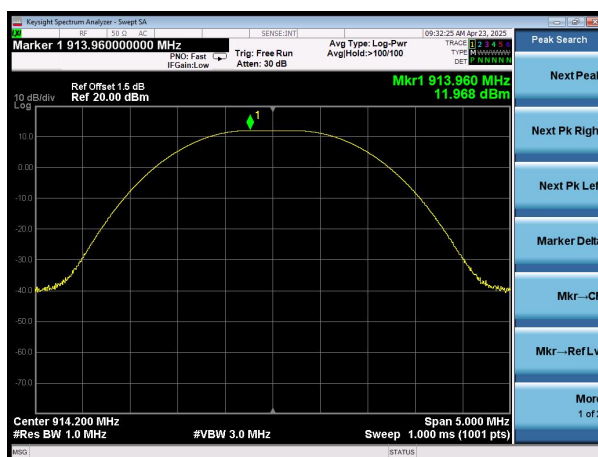
Test plot as follows:



Lowest channel

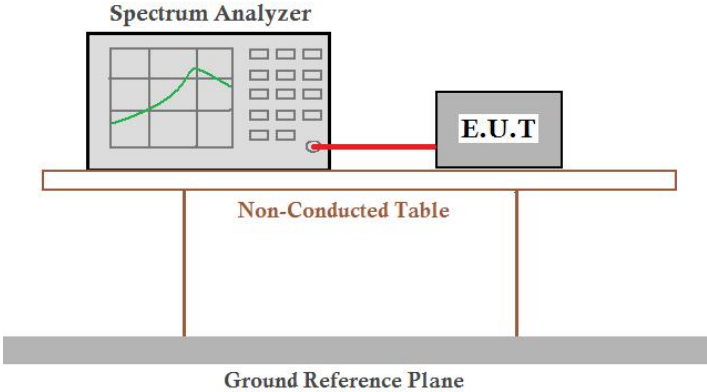


Middle channel



Highest channel

**5. -6DB OCCUPIED BANDWIDTH & -20DB OCCUPIED BANDWIDTH**

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance v05r02
Limit:	>500KHz for -6dB Bandwidth N/A for -20dB Bandwidth
Test setup:	
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Measurement Data**125KHz Bandwidth:**

Mode	Test channel	20dB Bandwidth (kHz)	Result
125KHz Bandwidth	Lowest	135.5	Pass
	Meddle	135.1	
	Highest	135.0	

500KHz Bandwidth:

Test channel	Channel Bandwidth (KHz)	Limit(KHz)	Result
Lowest	638.1	>500	Pass
Meddle	639.6		
Highest	636.0		

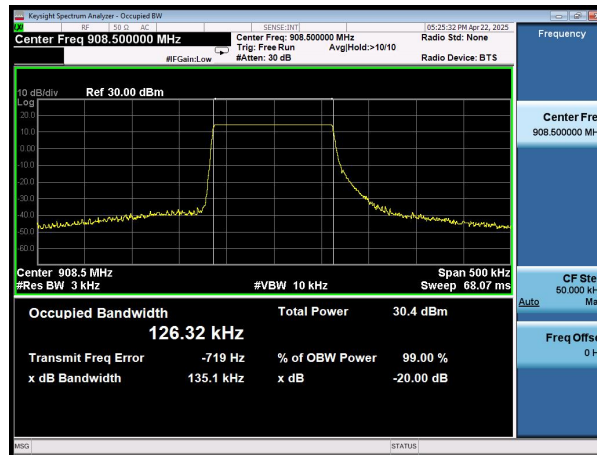


Test plot as follows:

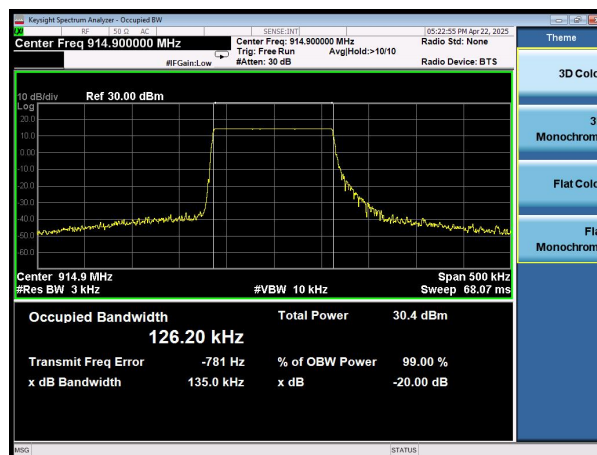
125KHz:



Lowest channel



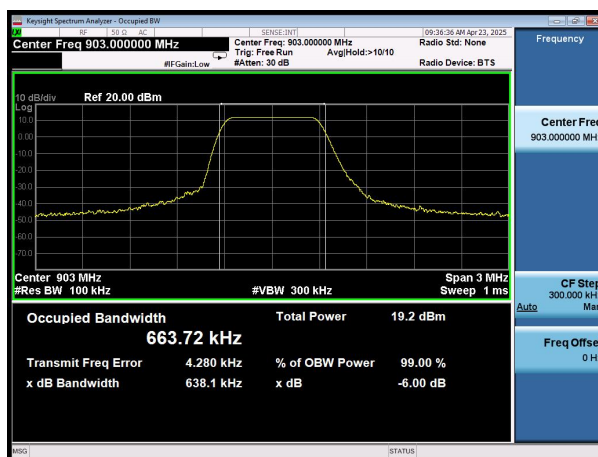
Meddle channel



Highest channel



Test plot as follows:
500KHz



Lowest channel



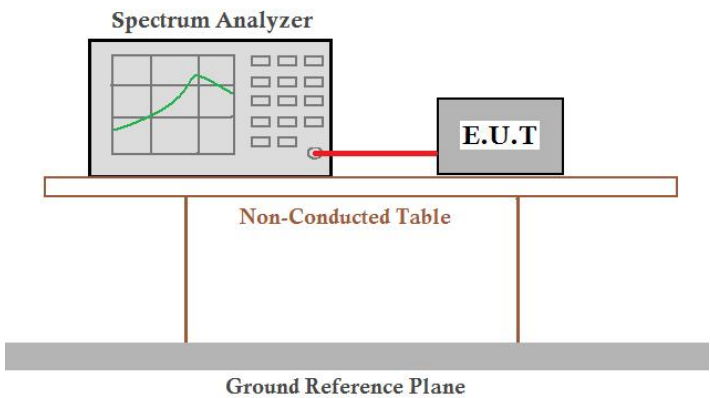
Meddle channel



Highest channel



6. CARRIER FREQUENCIES SEPARATION

Test Requirement:	FCC Part15 C Section 15.247 (a)(1) RSS-247 issue 2 5.1 (b)
Test Method:	ANSI C63.10:2013
Receiver setup:	RBW=3KHz, VBW=10KHz, detector=Peak
Limit:	Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel
Test setup:	
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

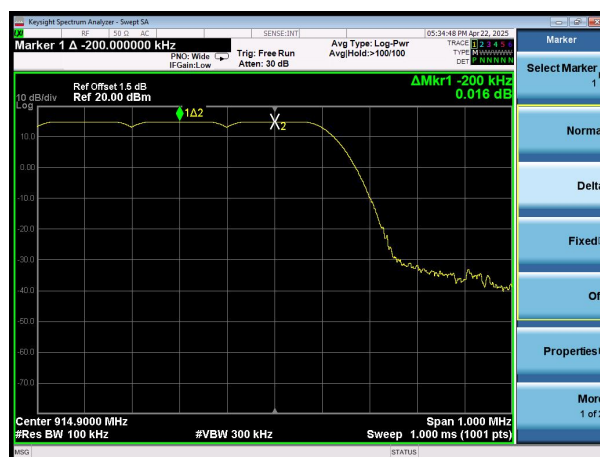
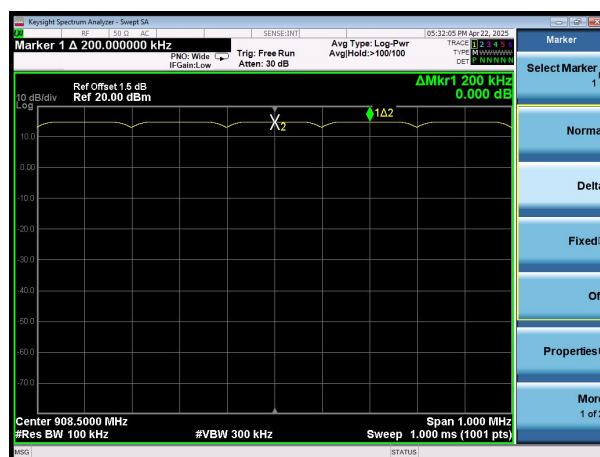
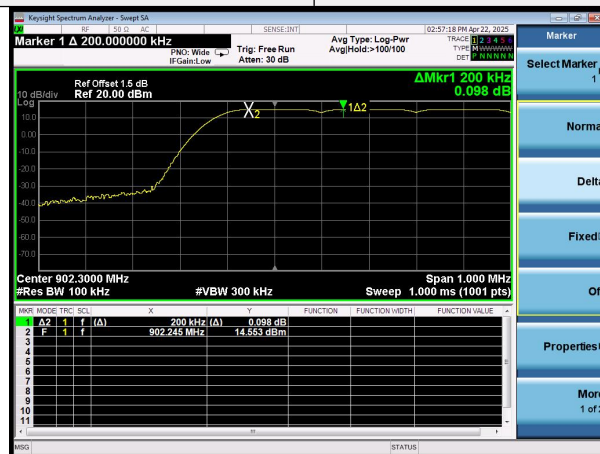
Measurement Data

Mode	Test channel	Carrier Frequencies Separation (kHz)	Limit (kHz)	Result
125KHz Bandwidth	Lowest	200.0	25KHz or 20dB Bandwidth	Pass
	Middle	200.0		Pass
	Highest	200.0		Pass

Test plot as follows:

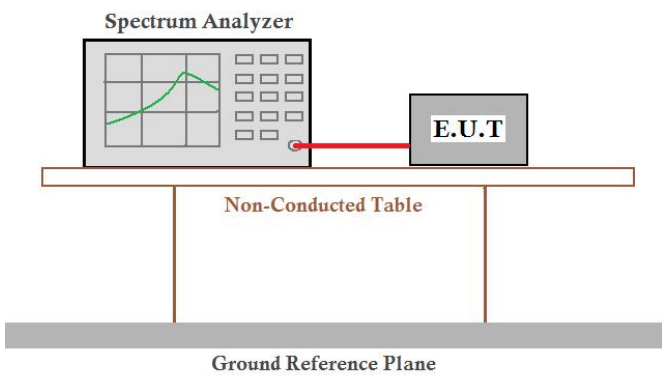
Modulation mode:

125KHz Bandwidth





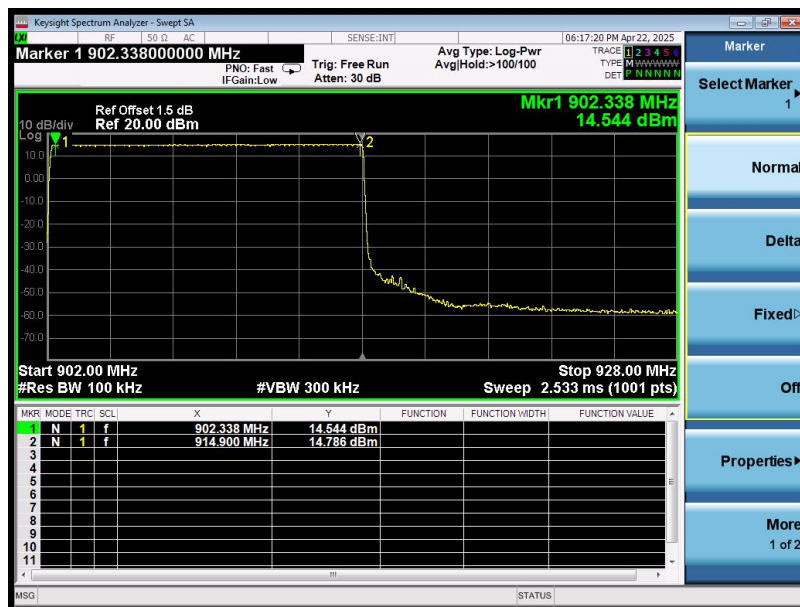
7. HOPPING CHANNEL NUMBER

Test Requirement:	FCC Part15 C Section 15.247 (a)(1) RSS-247 issue 2 5.1 (c)
Test Method:	ANSI C63.10:2013
Receiver setup:	RBW=100kHz, VBW=300kHz, Frequency range=902-928MHz, Detector=Peak
Limit:	If the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies. If the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies
Test setup:	 The diagram illustrates the test setup. A Spectrum Analyzer is connected via a red cable to an Equipment Under Test (E.U.T.). Both are placed on a Non-Conducted Table. Below the table is a Ground Reference Plane.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass



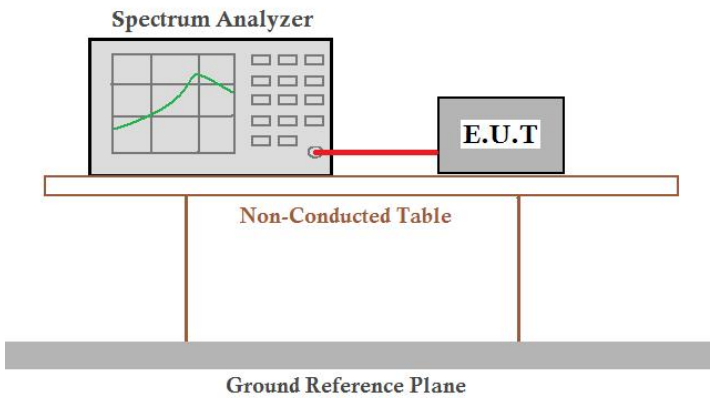
Measurement Data:

Mode	Hopping channel numbers	Limit	Result
125KHz Bandwidth	64	50	Pass





8. DWELL TIME

Test Requirement:	FCC Part15 C Section 15.247 (a)(1) RSS-247 issue 2 5.1 (c)
Test Method:	ANSI C63.10:2013
Receiver setup:	RBW=10kHz, VBW=30KHz, Span=0Hz, Detector=Peak
Limit:	0.4 Second
Test setup:	
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Measurement Data

Mode	Ton(ms)	Tcycle(ms)	Dwell time(ms)	Limit(ms)	Result
125KHz Bandwidth	8.10	32.70	99.083	400	Pass

Note: Transmit numbers= Continue TX Time/Tcycle

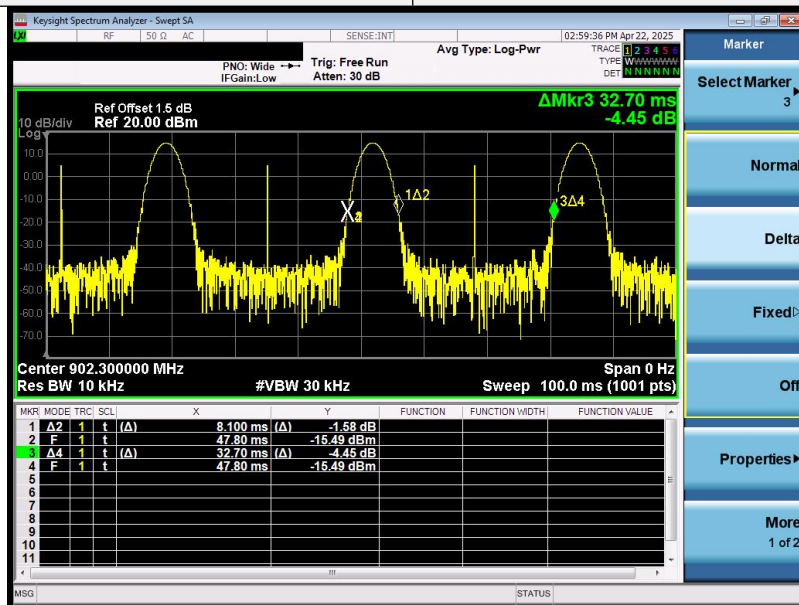
Dwell time=Transmit numbers*Ton



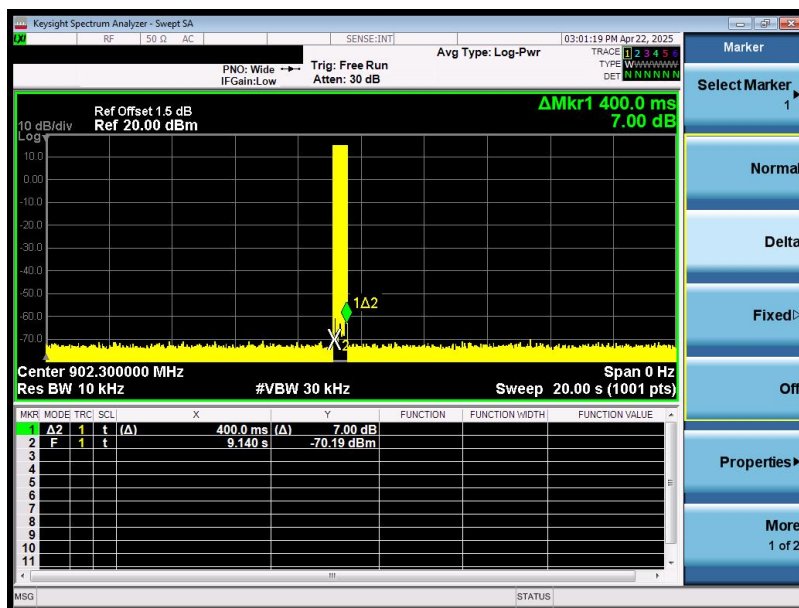
Test plot as follows:

Test Mode:

125KHz Bandwidth

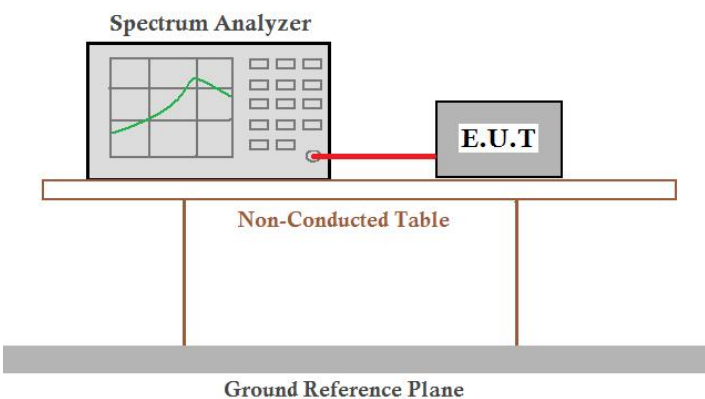


Ton&Tcycle



Continue TX Time

**9. POWER SPECTRAL DENSITY**

Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance v05r02
Limit:	8dBm/3kHz
Test setup:	
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Measurement Data

125KHz

Test channel	Power Spectral Density (dBm/3kHz)	Limit(dBm/3kHz)	Result
Lowest	6.971	8.00	Pass
Middle	7.153		
Highest	7.218		

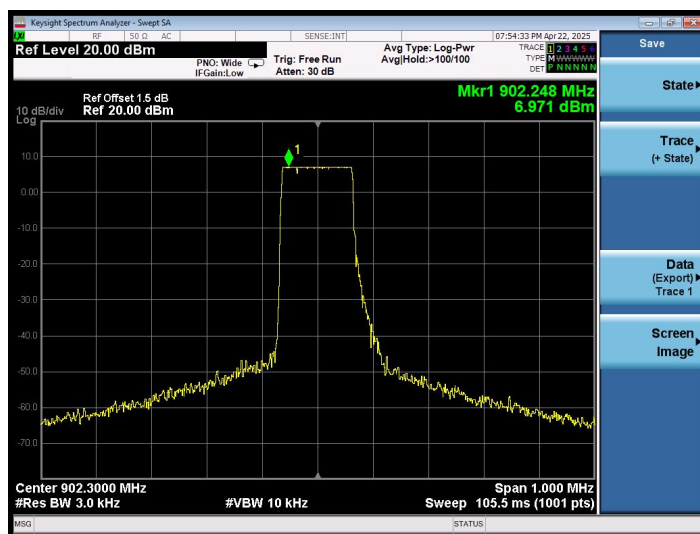
500KHz

Test channel	Power Spectral Density (dBm/3kHz)	Limit(dBm/3kHz)	Result
Lowest	2.556	8.00	Pass
Middle	2.550		
Highest	3.135		

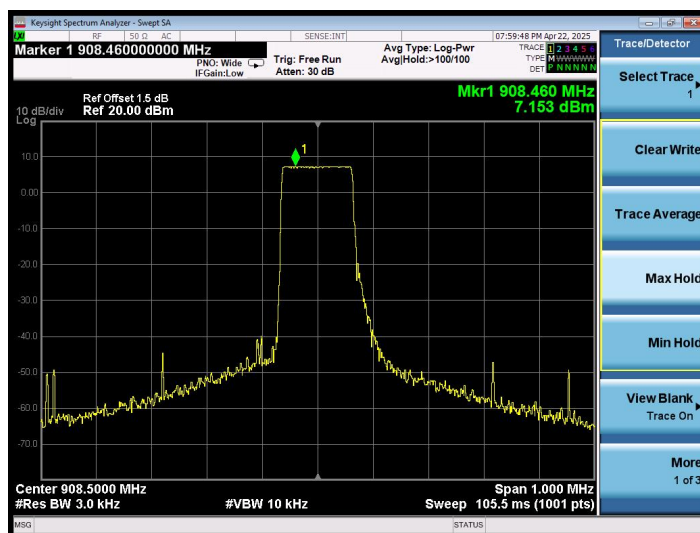


125KHz

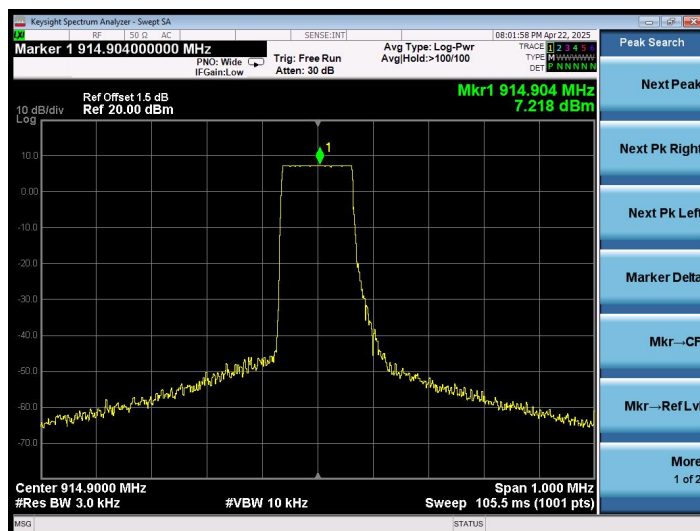
Test plot as follows:



Lowest channel



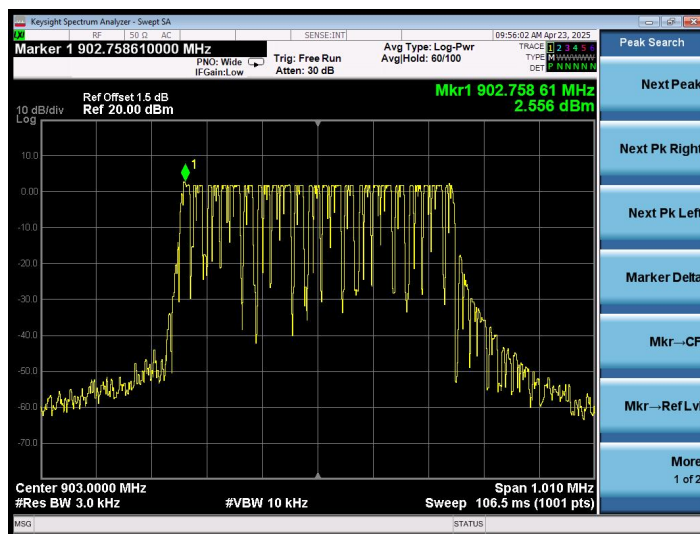
Middle channel



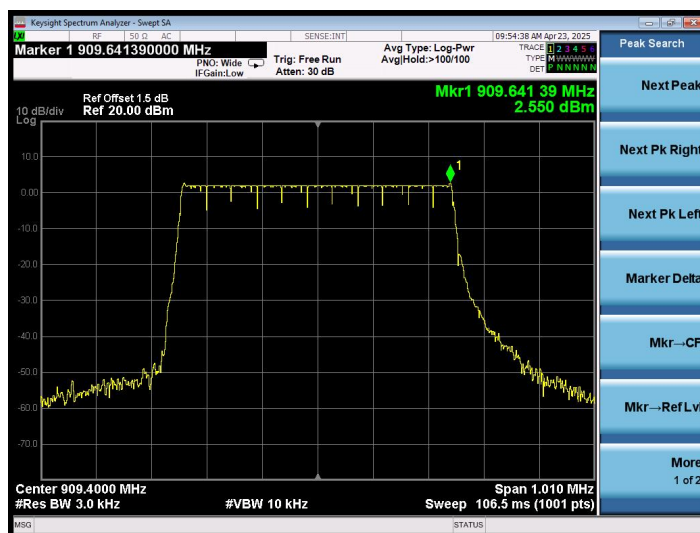
Highest channel



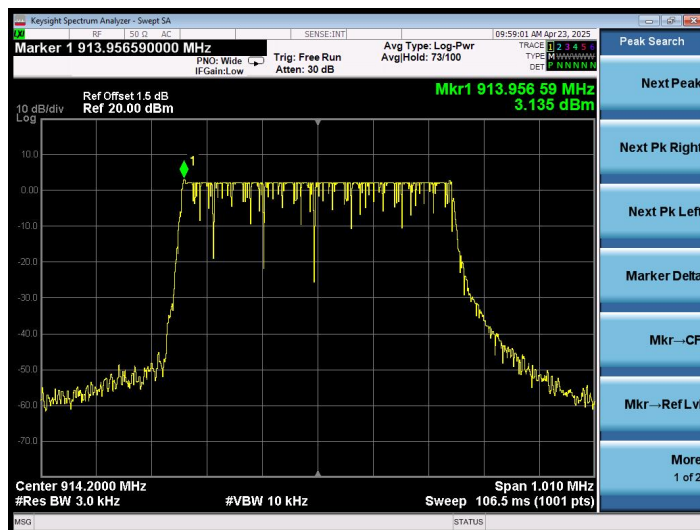
Test plot as follows:
500KHz



Lowest channel

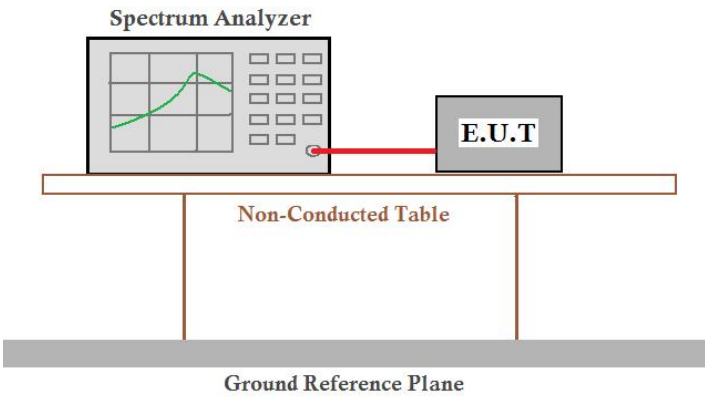


Medlle channel



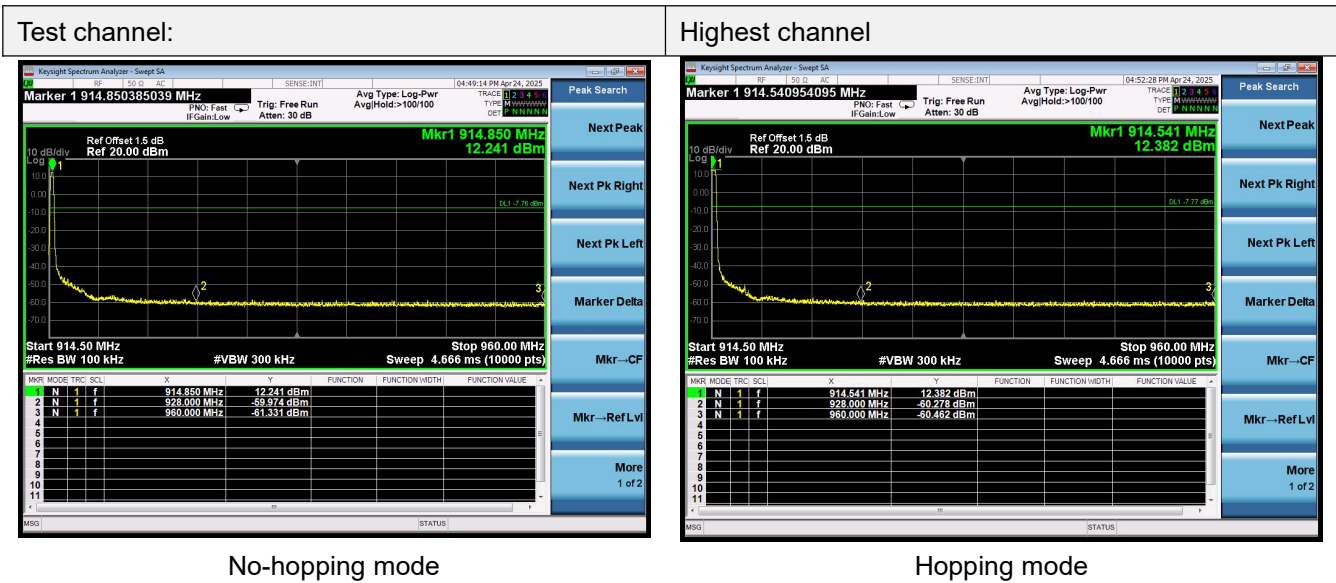
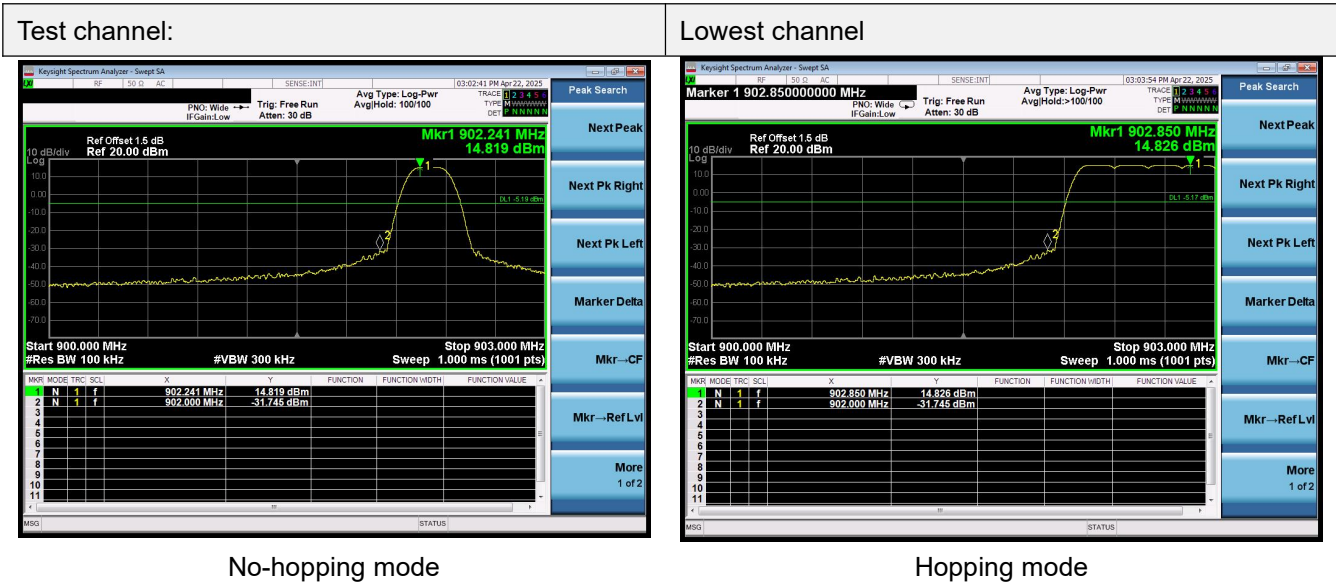
Highest channel

**10. BAND EDGES**

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance v05r02
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:	 The diagram illustrates the test setup for band edges. A Spectrum Analyzer is connected via a red cable to an E.U.T. (Equipment Under Test). Both are placed on a Non-Conducted Table, which is supported by a Ground Reference Plane.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

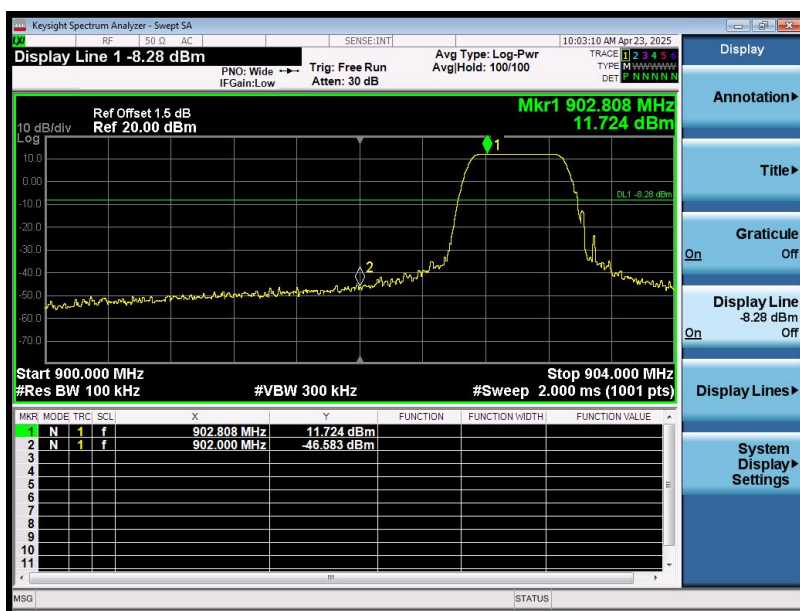


125KHz Bandwidth:

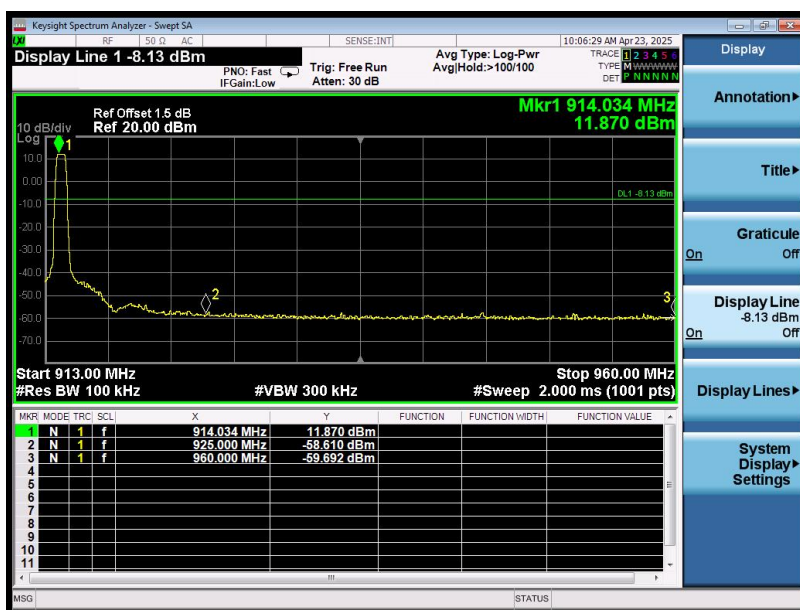




Test plot as follows:
500KHz for DTS



Lowest Channel

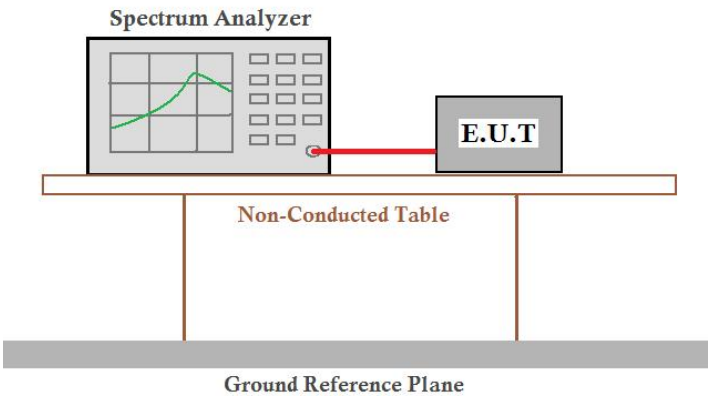


Highest Channel



11. SPURIOUS EMISSION

Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance v05r02
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 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

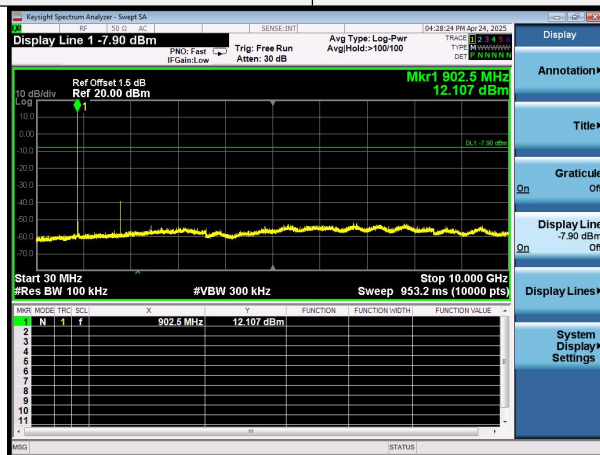


Test plot as follows:

125KHz

Test channel:

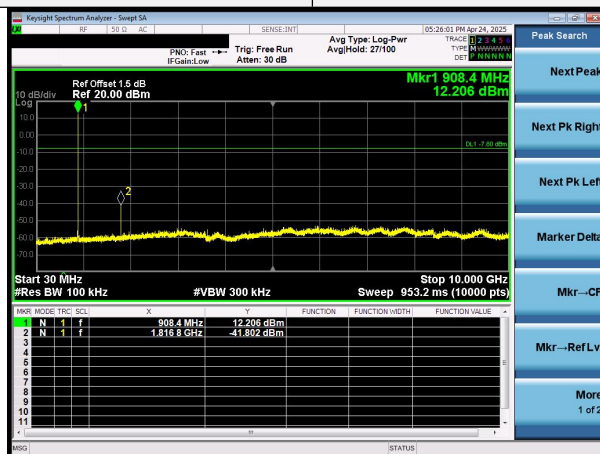
Lowest channel



30MHz~10GHz

Test channel:

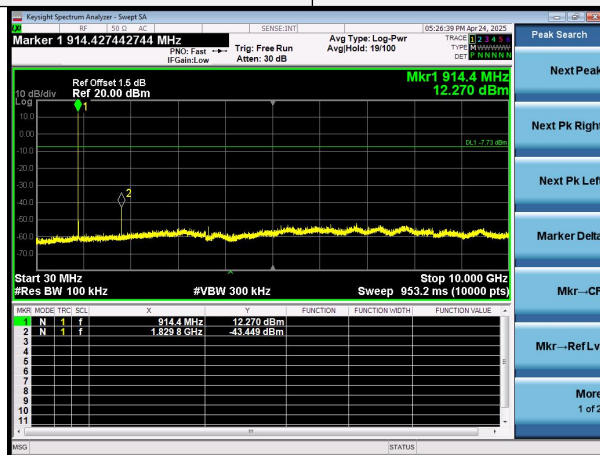
Middle channel



30MHz~10GHz

Test channel:

Highest channel

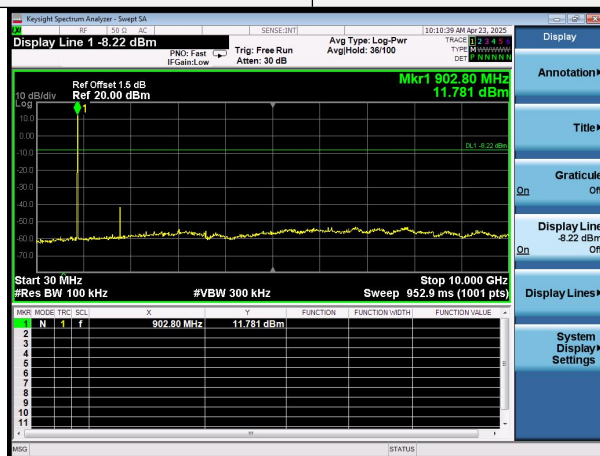




500KHz

Test channel:

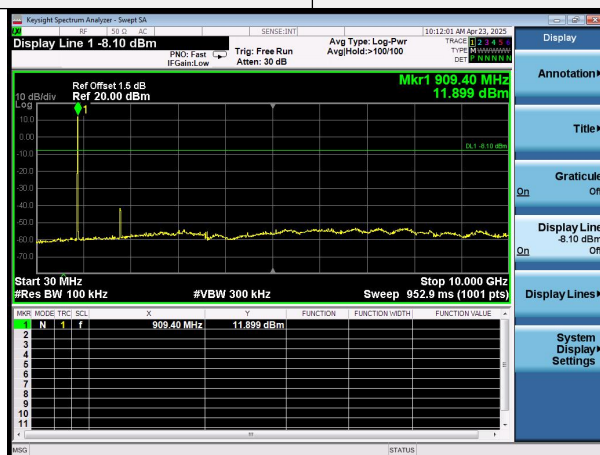
Lowest channel



30MHz~10GHz

Test channel:

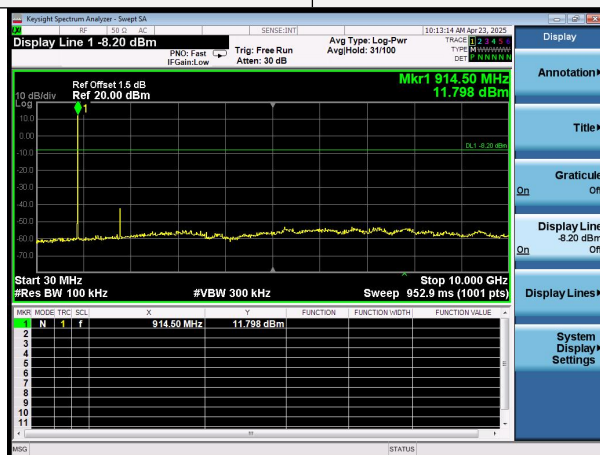
Middle channel



30MHz~10GHz

Test channel:

Highest channel





12. TEST SEUUP PHOTO

Reference to the appendix I for details.

13. EUT PHOTO

Reference to the appendix II for details.

***** END OF REPORT *****