

FCC PART 15.249 TEST REPORT

For

OKIN Refined Electric Technology Co., Ltd

No.465 Xinnanyang Road,Wangjiangjing Development Zone,Jiaxing Zhejiang China

FCC ID: PCU-CB4243

Report Type: Original Report	Product Type: Control Box
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Report Number: RSHA190318005-00A	
Report Date: 2019-04-09	
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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Applicant	OKIN Refined Electric Technology Co., Ltd.
Tested Model	CB4243
Product Type	Control Box
Dimension	185mm(L)×110mm(W)×40mm(H)
Power Supply	DC 29V from Adapter

All measurement and test data in this report was gathered from production sample serial number: 20190318005. (Assigned by BACL, Kunshan). The EUT was received on 2019-03-18.

Objective

This type approval report is prepared on behalf of OKIN Refined Electric Technology Co., Ltd. in accordance with Part 2-Subpart J, and Part 15-Subparts A and C of the Federal Communication Commission rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.207, 15.209 and 15.249 rules.

Related Submittal(s)/Grant(s)

FCC Part 15.249 DXX grant with FCC ID: PCU-RF3022.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

All radiated and conducted emissions measurement was performed at Bay Area Compliance Lab Corp. (Kunshan). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Measurement Uncertainty

Item		Uncertainty
AC Power Lines Conducted Emissions		3.19 dB
RF conducted test with spectrum		0.9dB
RF Output Power with Power meter		0.5dB
Radiated emission	30MHz~1GHz	6.11dB
	1GHz~6GHz	4.45dB
	6GHz~18GHz	5.23dB
	18GHz~40GHz	5.65dB
Occupied Bandwidth		0.5kHz
Temperature		1.0°C
Humidity		6%

Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

Test Facility

The test site used by Bay Area Compliance Laboratories Corp. (Kunshan) to collect test data is located on the No.248 Chenghu Road, Kunshan, Jiangsu province, China.

Bay Area Compliance Laboratories Corp. (Kunshan) Lab is accredited to ISO/IEC 17025 by A2LA (Lab code: 4323.01) and the FCC designation No. CN1185 under the FCC KDB 974614 D01 and CAB identifier CN0004 under the ISED requirement. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2014.

SYSTEM TEST CONFIGURATION

Justification

Channel list:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2403	40	2442
2	2404	...	...
...	...	...	...
38	2440	77	2479
39	2441	78	2480

EUT was tested with Channel 1, 40 and 78.

EUT Exercise Software

RF test tool: Engineering mode.

Support Equipment List and Details

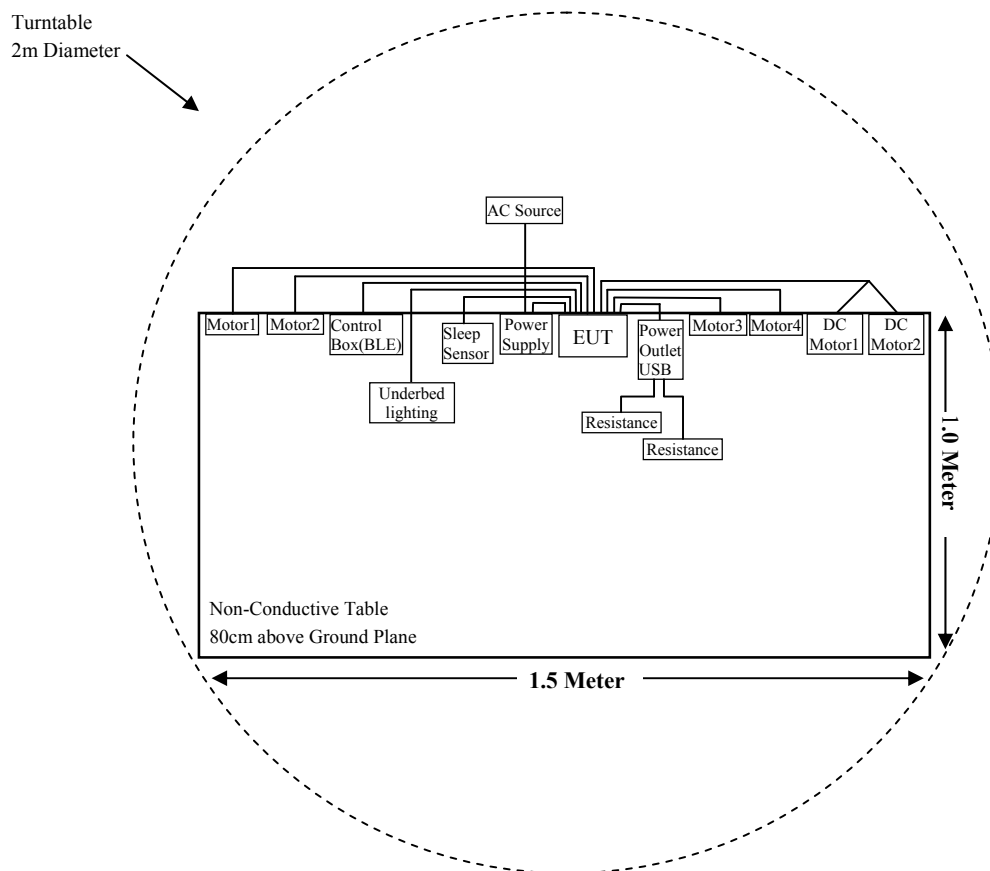
Manufacturer	Description	Model	Serial Number
OKIN	Motor 1	JLDQ.10.365.129.188E	Q18073406 00001
OKIN	Motor 2	JLDQ.10.388.49.98B	Q17122390 00011
OKIN	Motor 3	JLDQ.10.261.52C	/
OKIN	Motor 4	JLDQ.10.261.52C	/
OKIN	DC Motor 1	JLDQ.9.001.130B	2018090500957
OKIN	DC Motor 2	JLDQ.9.001.130B	2018090500517
OKIN	Power Supply	09-290018	RBD6913003779
OKIN	Underbed lighting	R5.113.00.011	/
OKIN	Sleep Sensor	R5.414.01.001	/
OKIN	Control Box(BLE)	WORK181204DATE1812	JLDP-05
/	Resistance*2	/	/
OKIN	Power Outlet USB	/	/

External I/O Cable

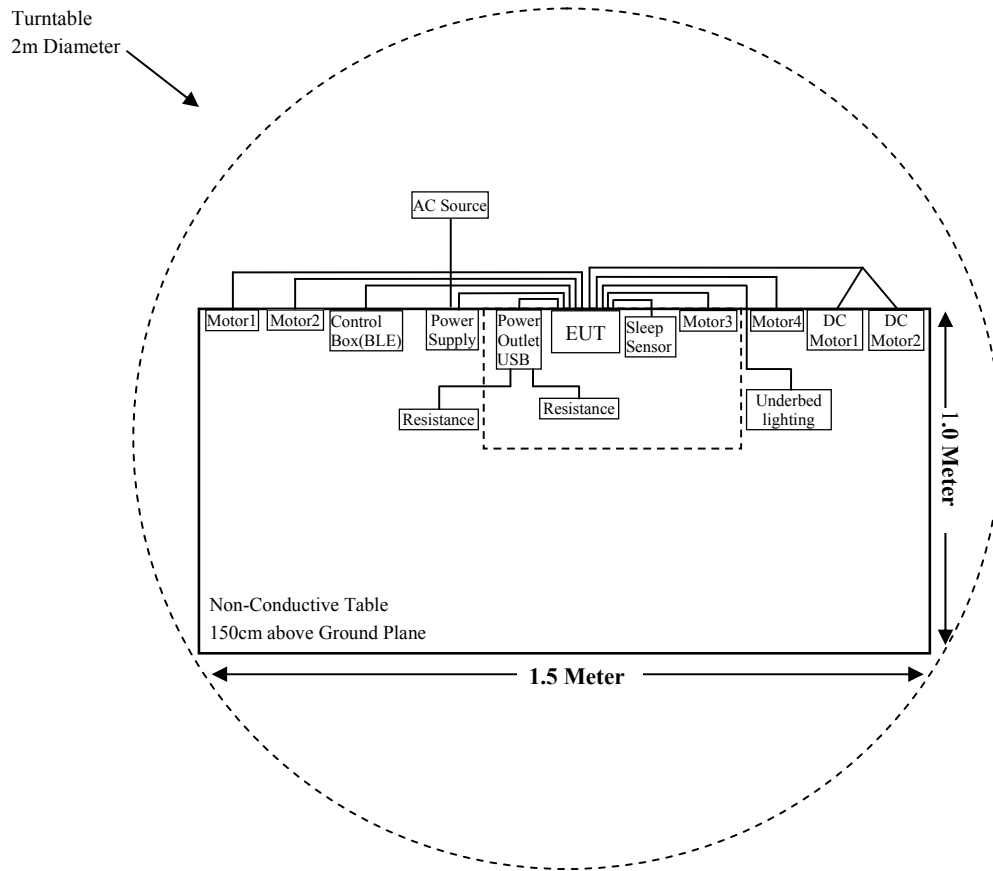
Cable Description	Length (m)	From Port	To
Sync Cable	0.6	EUT	DC Motor
Patch Cord	0.8	EUT	Underbed lighting
Power Cord	1.0	EUT	Power Supply
Data Cable*4	1.0	EUT	Motor
Data Cable	1.0	EUT	Sleep Sensor
Data Cable	0.5	EUT	Power Outlet USB
Data Cable	0.6	EUT	Control Box(BLE)
Data Cable*2	0.5	Power Outlet USB	Resistance

Block Diagram of Test Setup

For Radiated Emissions(Below 1GHz):



For Radiated Emissions(Above 1GHz):



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§15.203	Antenna Requirement	Compliant
§15.207(a)	Conduction Emissions	Compliant
15.205, §15.209, §15.249	Radiated Emissions& Out of Band Emission	Compliant
§15.215 (c)	20 dB Bandwidth	Compliant

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Radiated Emission Test (Chamber 1#)					
Rohde & Schwarz	EMI Test Receiver	ESCI	100195	2018-11-30	2019-11-29
Sunol Sciences	Broadband Antenna	JB3	A090413-1	2016-12-26	2019-12-25
Sonoma Instrunent	Pre-amplifier	310N	171205	2018-08-14	2019-08-13
Rohde & Schwarz	Auto test Software	EMC32	100361	/	/
MICRO-COAX	Coaxial Cable	Cable-8	008	2018-08-15	2019-08-14
MICRO-COAX	Coaxial Cable	Cable-9	009	2018-08-15	2019-08-14
MICRO-COAX	Coaxial Cable	Cable-10	010	2018-08-15	2019-08-14
Radiated Emission Test (Chamber 2#)					
Rohde & Schwarz	EMI Test Receiver	ESU40	100207	2018-08-27	2019-08-26
ETS-LINDGREN	Horn Antenna	3115	9207-3900	2017-07-15	2020-07-14
ETS-LINDGREN	Horn Antenna	3116	00084159	2016-12-12	2019-12-11
MICRO-TRONICS	Notch Filter	BRM50702	G024	2018-08-05	2019-08-04
A.H.Systems, inc	Amplifier	2641-1	491	2019-02-20	2020-02-19
EM Electronics Corporation	Amplifier	EM18G40G	060726	2019-03-22	2020-03-21
Rohde & Schwarz	Auto test Software	EMC32	100361	/	/
MICRO-COAX	Coaxial Cable	Cable-6	006	2018-08-15	2019-08-14
MICRO-COAX	Coaxial Cable	Cable-11	011	2018-08-15	2019-08-14
MICRO-COAX	Coaxial Cable	Cable-12	012	2018-08-15	2019-08-14
MICRO-COAX	Coaxial Cable	Cable-13	013	2018-08-15	2019-08-14
RF Conducted Test					
Rohde & Schwarz	Signal Analyzer	FSIQ26	836131/009	2018-11-30	2019-11-29
Narda	Attenuator	10dB	010	2018-08-15	2019-08-14
OKIN	RF Cable	OKINC01	C01	Each Time	/
Conducted Emission Test					
Rohde & Schwarz	EMI Test Receiver	ESCS30	834115/007	2018-11-30	2019-11-29
Rohde & Schwarz	LISN	ESH3-Z5	862770/011	2018-11-30	2019-11-29
BACL	Auto test Software	BACL-EMC	CE001	/	/
Narda	Attenuator/6dB	10690812-2	26850-6	2019-01-10	2020-01-09
MICRO-COAX	Coaxial Cable	Cable-15	015	2018-08-15	2019-08-14

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Kunshan) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC§15.203 - ANTENNA REQUIREMENT

Applicable Standard

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.

Antenna Connector Construction

The EUT has a PCB antenna and antenna gain is 0dBi, which was permanently attached, fulfill the requirement of this section, please refer to the EUT photos.

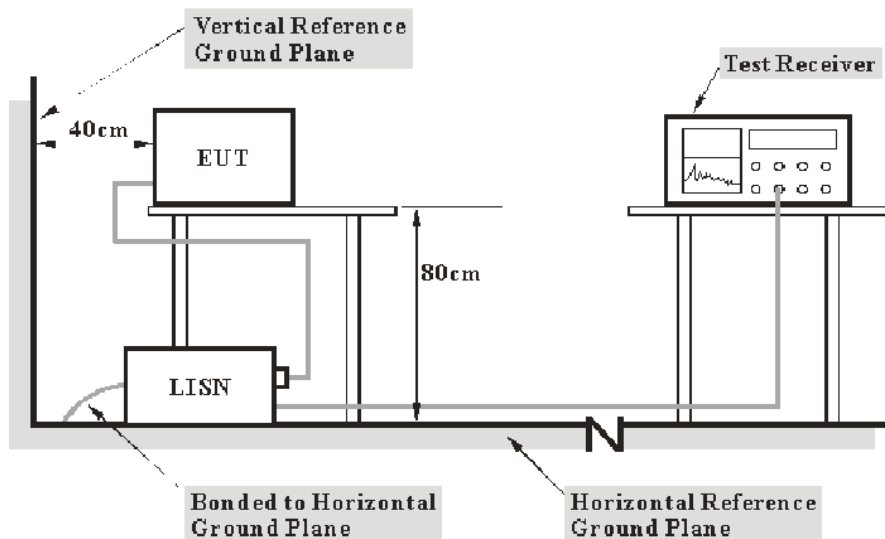
Result: Compliant.

FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC§15.207

EUT Setup



Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 limits.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

Test Procedure

During the conducted emission test, the adapter was connected to the outlet of the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and average detection mode.

Corrected Factor & Margin Calculation

The Corrected Factor is calculated by adding LISN VDF (Voltage Division Factor), Cable Loss and Transient Limiter Attenuation. The basic equation is as follows:

$$\text{Corrected Factor (dB)} = \text{LISN VDF (dB)} + \text{Cable Loss (dB)} + \text{Transient Limiter Attenuation (dB)}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7 dB means the emission is 7 dB below the limit. The equation for margin calculation is as follows:

$$\text{Margin (dB)} = \text{Limit (dB}\mu\text{V)} - \text{Corrected Amplitude (dB}\mu\text{V)}$$

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Part 15.207.

Test Data

Environmental Conditions

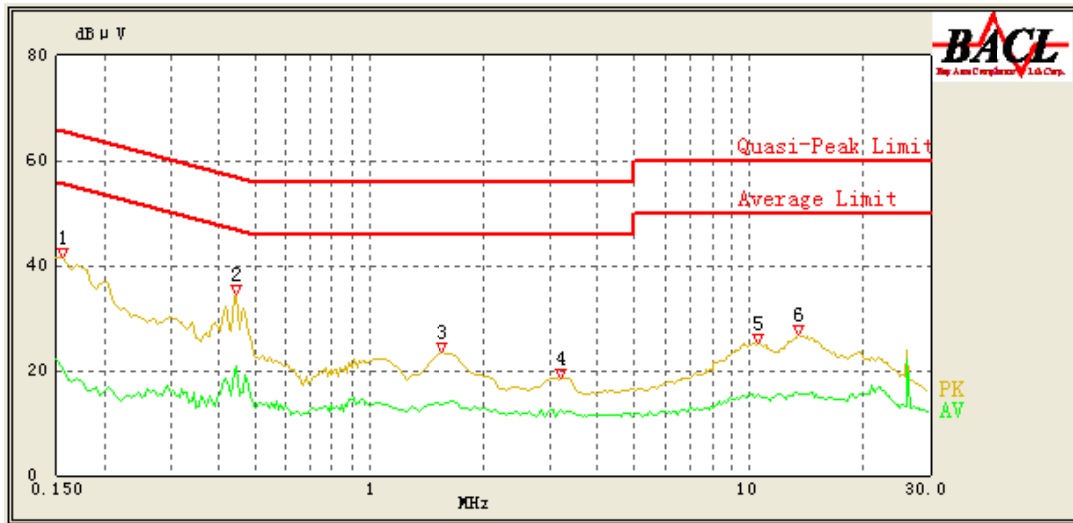
Temperature:	25.0℃
Relative Humidity:	48 %
ATM Pressure:	101.2 kPa

The testing was performed by Hope Zhang on 2019-04-08

Test Result: Compliant.

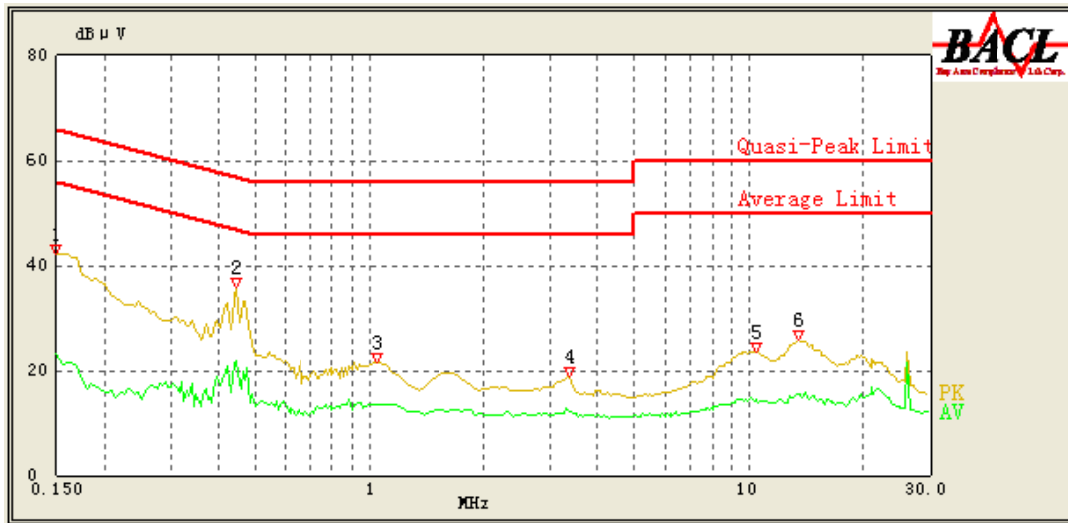
EUT operation mode: Transmitting in low channel. (Worst case)

AC 120V/60Hz, Line



Frequency (MHz)	Reading (dBμV)	Detector (PK/AV/QP)	Bandwidth (kHz)	Line	Corrected Factor (dB)	Limit (dBμV)	Margin (dB)	Comment
0.155	41.46	QP	9.000	L	16.06	65.73	24.27	Compliant
0.155	20.64	AV	9.000	L	16.06	55.73	35.09	Compliant
0.445	34.53	QP	9.000	L	16.07	56.97	22.44	Compliant
0.445	20.72	AV	9.000	L	16.07	46.97	26.25	Compliant
1.550	23.40	QP	9.000	L	15.86	56.00	32.60	Compliant
1.550	13.62	AV	9.000	L	15.86	46.00	32.38	Compliant
3.200	18.65	QP	9.000	L	15.85	56.00	37.35	Compliant
3.200	12.49	AV	9.000	L	15.85	46.00	33.51	Compliant
10.600	25.08	QP	9.000	L	16.08	60.00	34.92	Compliant
10.600	15.49	AV	9.000	L	16.08	50.00	34.51	Compliant
13.500	26.79	QP	9.000	L	16.16	60.00	33.21	Compliant
13.500	15.34	AV	9.000	L	16.16	50.00	34.66	Compliant

AC 120V/60Hz, Neutral



Frequency (MHz)	Reading (dBμV)	Detector (PK/AV/QP)	Bandwidth (kHz)	Line	Corrected Factor (dB)	Limit (dBμV)	Margin (dB)	Comment
0.150	42.13	QP	9.000	N	16.06	66.00	23.87	Compliant
0.150	23.09	AV	9.000	N	16.06	56.00	32.91	Compliant
0.445	36.00	QP	9.000	N	16.10	56.97	20.97	Compliant
0.445	21.88	AV	9.000	N	16.10	46.97	25.09	Compliant
1.050	21.37	QP	9.000	N	15.94	56.00	34.63	Compliant
1.050	13.63	AV	9.000	N	15.94	46.00	32.37	Compliant
3.350	18.70	QP	9.000	N	15.89	56.00	37.30	Compliant
3.350	12.20	AV	9.000	N	15.89	46.00	33.80	Compliant
10.400	23.59	QP	9.000	N	15.99	60.00	36.41	Compliant
10.400	14.41	AV	9.000	N	15.99	50.00	35.59	Compliant
13.450	25.87	QP	9.000	N	16.00	60.00	34.13	Compliant
13.450	15.42	AV	9.000	N	16.00	50.00	34.58	Compliant

Note:

- 1) Corrected Factor (dB) = LISN VDF (dB) + Cable Loss (dB) + Transient Limiter Attenuation (dB)
- 2) Margin (dB) = Limit (dBμV) – Corrected Amplitude (dBμV)

FCC§15.205, §15.209&§15.249- RADIATED EMISSIONS& OUT OF BAND EMISSION

Applicable Standard

As per FCC§15.249 (a), except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

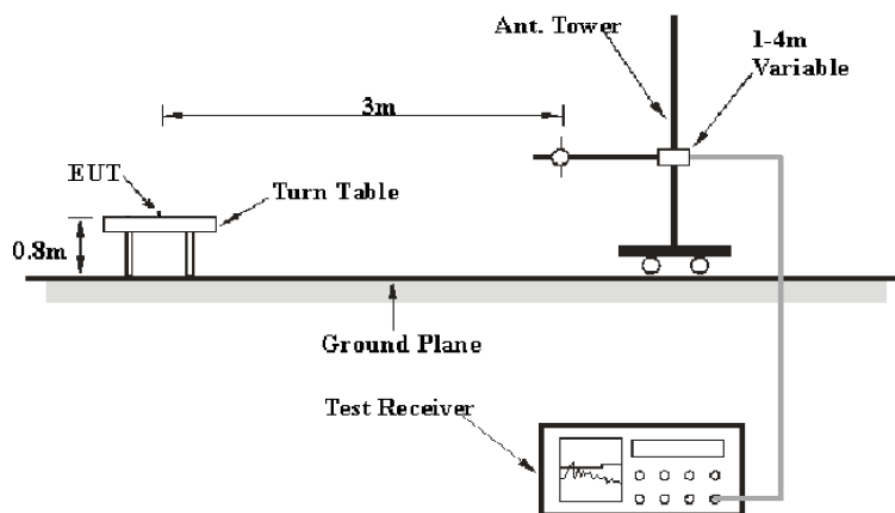
Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)
902–928 MHz	50	500
2400–2483.5 MHz	50	500
5725–5875 MHz	50	500

As per FCC§15.249 (c), Field strength limits are specified at a distance of 3 meters.

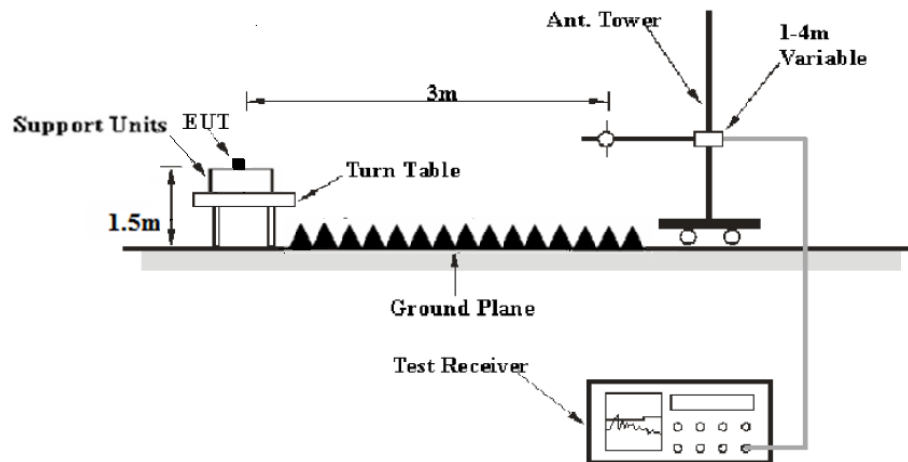
(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

EUT Setup

Below 1 GHz:



Above 1 GHz:



The radiated emission and out of band emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209/15.205 and FCC 15.249 limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

Test Equipment Setup

The system was investigated from 30 MHz to 25GHz.

During the radiated emission test, the EMI test receiver Setup was set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Detector
30 MHz – 1000 MHz	120 kHz	300 kHz	120 kHz	QP
Above 1GHz	1MHz	3 MHz	/	PK
	1MHz	3 MHz	/	Ave

Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

Data was recorded in Quasi-peak detection mode for frequency range of 30 MHz-1 GHz, peak and Average detection modes for frequencies above 1 GHz.

Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

$$\text{Corrected Amplitude (dB}\mu\text{V /m)} = \text{Meter Reading (dB}\mu\text{V)} + \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} - \text{Amplifier Gain (dB)}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

$$\text{Margin (dB)} = \text{Limit (dB}\mu\text{V/m)} - \text{Corrected Amplitude (dB}\mu\text{V /m)}$$

Test Results Summary

According to the data in the following table, the EUT complied with the FCC Part 15.209 &15.205 & 15.249.

Test Data

Environmental Conditions

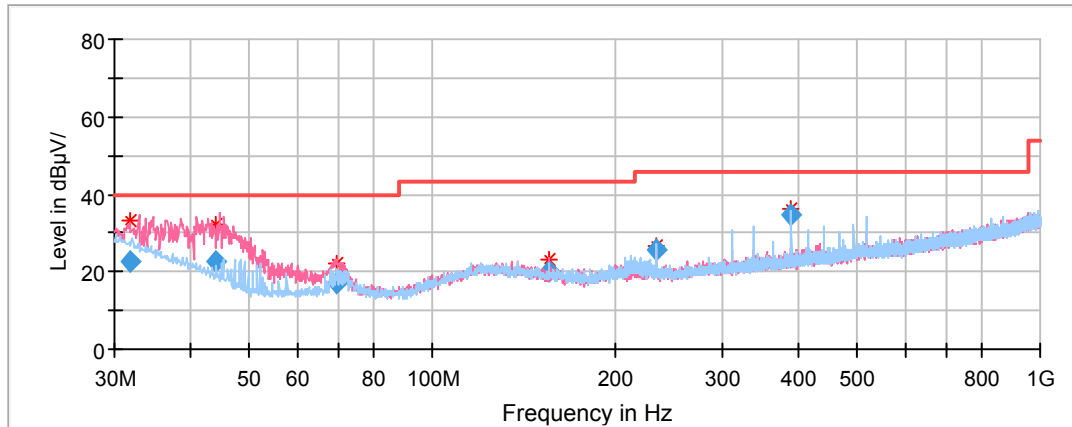
Temperature:	24.2°C-25°C
Relative Humidity:	50%-52%
ATM Pressure:	101.3kPa-102.0 kPa

The testing was performed by Hope Zhang from 2019-04-01 to 2019-04-08.

Test Mode: Transmitting

Spurious Emission Test:**30MHz-1GHz**

(Pre-scan with low, middle and high channels of operation in the X,Y and Z axes of orientation, the worst case in **low channel Z-axis of orientation** was recorded.)



Frequency (MHz)	Corrected Amplitude	Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	Quasi-peak (dBμV/m)	Height (cm)	Polar (H/V)				
31.827300	22.46	101.0	V	134.0	-5.2	40.00	17.54
44.190350	22.74	101.0	V	191.0	-13.6	40.00	17.26
69.576100	16.92	199.0	V	350.0	-17.3	40.00	23.08
155.975450	20.30	101.0	V	118.0	-12.6	43.50	23.20
234.001300	25.87	199.0	H	353.0	-12.2	46.00	20.13
390.011350	34.65	101.0	H	83.0	-8.3	46.00	11.35

1GHz-18GHz

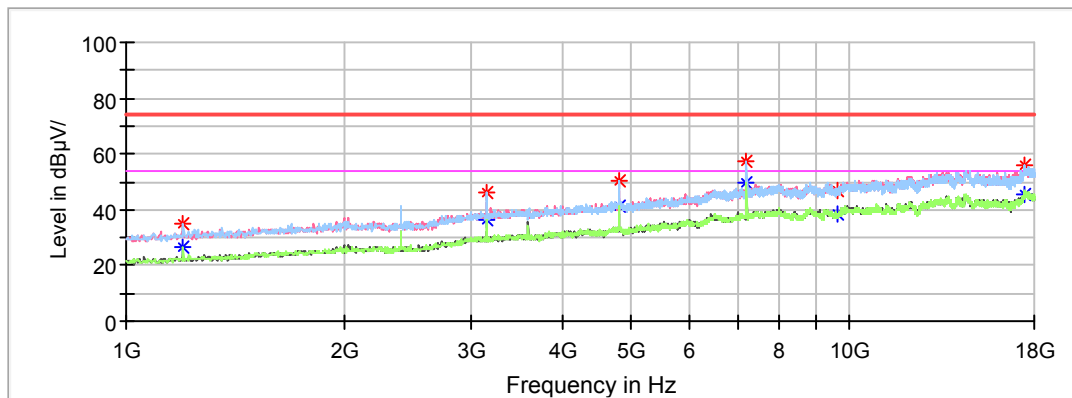
(Pre-scan in the X,Y and Z axes of orientation, the worst case **Z-axis of orientation** was recorded.)

Note:

1. This test was performed with the 2.4-2.5GHz notch filter.
2. Corrected Factor (dB/m) = Antenna factor (RX) (dB/m) + Cable Loss (dB) – Amplifier Factor (dB)
 Corrected Amplitude (dB μ V /m) = Corrected Factor (dB/m) + Reading (dB μ V)
 Margin (dB) = Limit (dB μ V/m) – Corrected Amplitude (dB μ V /m)

Low Channel: 2403MHz

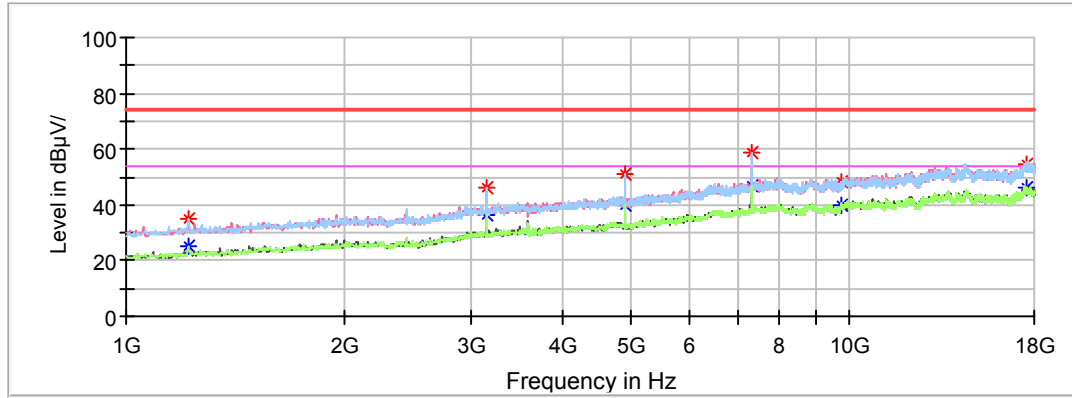
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dB μ V/m)	Margin (dB)
	MaxPeak (dB μ V /m)	Average (dB μ V /m)	Height (cm)	Polar (H/V)				
1200.600000	---	26.43	150.0	H	2.0	-11.6	54.00	27.57
1200.600000	35.12	---	150.0	H	2.0	-11.6	74.00	38.88
3145.400000	---	36.65	150.0	H	2.0	-4.1	54.00	17.35
3145.400000	46.08	---	150.0	H	2.0	-4.1	74.00	27.92
4806.000000	---	40.91	200.0	H	43.0	-0.6	54.00	13.09
4806.000000	50.43	---	200.0	H	43.0	-0.6	74.00	23.57
7209.000000	---	49.77	150.0	H	335.0	5.7	54.00	4.23
7209.000000	57.28	---	150.0	H	335.0	5.7	74.00	16.72
9612.200000	---	38.75	150.0	V	287.0	7.8	54.00	15.25
9612.200000	47.08	---	150.0	V	287.0	7.8	74.00	26.92
17493.400000	---	45.55	200.0	H	252.0	14.2	54.00	8.45
17493.400000	55.92	---	200.0	H	252.0	14.2	74.00	18.08

Middle Channel: 2442MHz

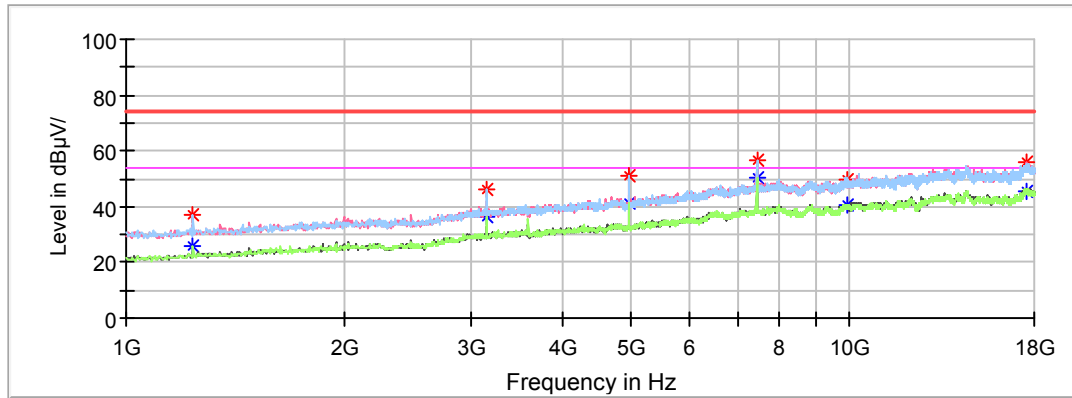
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBµV/m)	Margin (dB)
	MaxPeak (dBµV /m)	Average (dBµV /m)	Height (cm)	Polar (H/V)				
1217.600000	---	25.49	150.0	H	7.0	-11.5	54.00	28.51
1217.600000	35.27	---	150.0	H	7.0	-11.5	74.00	38.73
3145.400000	---	36.41	150.0	H	0.0	-4.1	54.00	17.59
3145.400000	46.07	---	150.0	H	0.0	-4.1	74.00	27.93
4884.000000	---	39.67	200.0	H	43.0	-0.4	54.00	14.33
4884.000000	50.76	---	200.0	H	43.0	-0.4	74.00	23.24
7326.000000	---	46.78	150.0	H	324.0	5.9	54.00	7.22
7326.000000	58.64	---	150.0	H	324.0	5.9	74.00	15.36
9768.600000	---	39.83	150.0	V	148.0	8.0	54.00	14.17
9768.600000	48.40	---	150.0	V	148.0	8.0	74.00	25.60
17524.000000	---	46.03	150.0	V	302.0	14.2	54.00	7.97
17524.000000	54.66	---	150.0	V	302.0	14.2	74.00	19.34

High Channel: 2480MHz

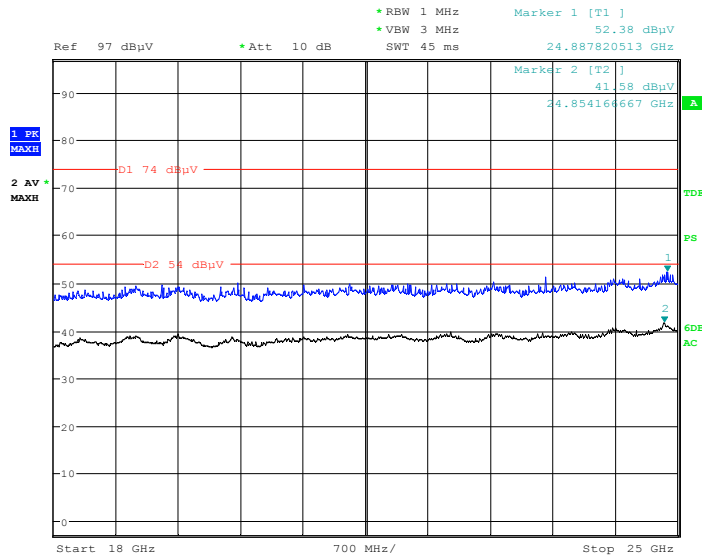
Full Spectrum



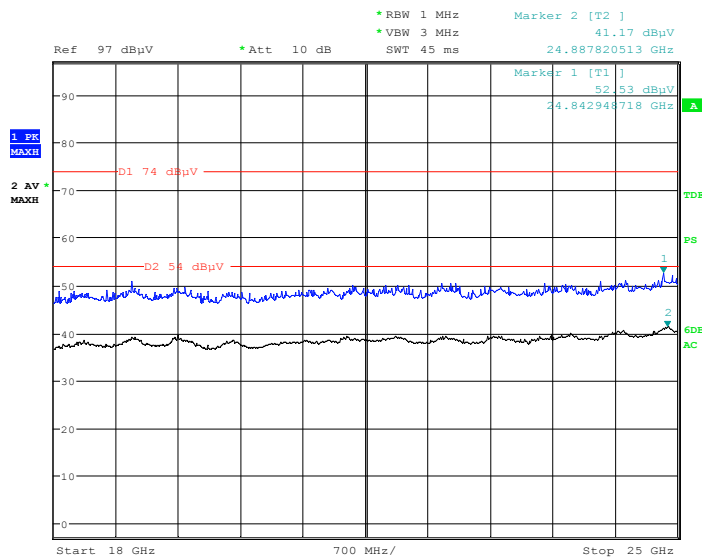
Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV /m)	Average (dBμV /m)	Height (cm)	Polar (H/V)				
1238.000000	---	26.07	150.0	H	0.0	-11.4	54.00	27.93
1238.000000	36.92	---	150.0	H	0.0	-11.4	74.00	37.08
3145.400000	---	36.50	150.0	H	0.0	-4.1	54.00	17.50
3145.400000	46.37	---	150.0	H	0.0	-4.1	74.00	27.63
4960.000000	---	40.93	150.0	H	358.0	-0.3	54.00	13.07
4960.000000	50.83	---	150.0	H	358.0	-0.3	74.00	23.17
7440.000000	---	50.08	200.0	H	318.0	6.0	54.00	3.92
7440.000000	56.97	---	200.0	H	318.0	6.0	74.00	17.03
9918.200000	---	40.58	200.0	V	7.0	8.1	54.00	13.42
9918.200000	49.99	---	200.0	V	7.0	8.1	74.00	24.01
17507.000000	---	45.37	200.0	V	7.0	14.3	54.00	8.63
17507.000000	55.61	---	200.0	V	7.0	14.3	74.00	18.39

18GHz-25GHz:

(Pre-scan with low, middle and high channels of operation in the X,Y and Z axes of orientation, the worst case in **low channel Z-axis of orientation** was recorded)

Horizontal

Date: 8.APR.2019 19:44:12

Vertical

Date: 8.APR.2019 19:56:17

Fundamental Test & Restricted Bands Emissions Test:(Pre-scan in the X, Y and Z axes of orientation, the worst case **Z-axis of orientation** was recorded.)

Note:

1. Corrected Factor (dB/m) = Antenna factor (RX) (dB/m) + Cable Loss (dB) – Amplifier Factor (dB)
 Corrected Amplitude (dB μ V /m) = Corrected Factor (dB/m) + Reading (dB μ V)
 Margin (dB) = Limit (dB μ V/m) – Corrected Amplitude (dB μ V /m)

Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV /m)	Average (dBμV /m)	Height (cm)	Polar (H/V)	Degree			
Low Channel: 2403MHz								
2403.00	92.63	---	100.0	H	322.0	2.8	114.00	21.37
2403.00	---	92.29	100.0	H	322.0	2.8	94.00	1.71
2403.00	90.45	---	250.0	V	69.0	2.8	114.00	23.55
2403.00	---	89.81	250.0	V	69.0	2.8	94.00	4.19
2400.00	---	41.80	150.0	H	56.0	2.7	54.00	12.20
2400.00	52.45	---	150.0	H	56.0	2.7	74.00	21.55
Middle Channel: 2442MHz								
2442.00	91.71	---	150.0	H	303.0	2.9	114.00	22.29
2442.00	---	91.21	150.0	H	303.0	2.9	94.00	2.79
2442.00	89.63	---	100.0	V	117.0	2.9	114.00	24.37
2442.00	---	89.05	100.0	V	117.0	2.9	94.00	4.95
High Channel: 2480MHz								
2480.00	89.89	---	100.0	H	147.0	3.0	114.00	24.11
2480.00	---	89.25	100.0	H	147.0	3.0	94.00	4.75
2480.00	87.74	---	150.0	V	162.0	3.0	114.00	26.26
2480.00	---	86.85	150.0	V	162.0	3.0	94.00	7.15
2483.50	56.19	---	150.0	H	292.0	3.0	74.00	17.81
2483.50	---	46.29	150.0	H	292.0	3.0	54.00	7.71

FCC §15.215(c) – 20 dB BANDWIDTH TESTING

Applicable Standard

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT on the test table without connection to measurement instrument. Turn on the EUT. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
3. Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.
4. Repeat above procedures until all frequencies measured were complete.

Test Data

Environmental Conditions

Temperature:	24.4°C
Relative Humidity:	50%
ATM Pressure:	101.3kPa

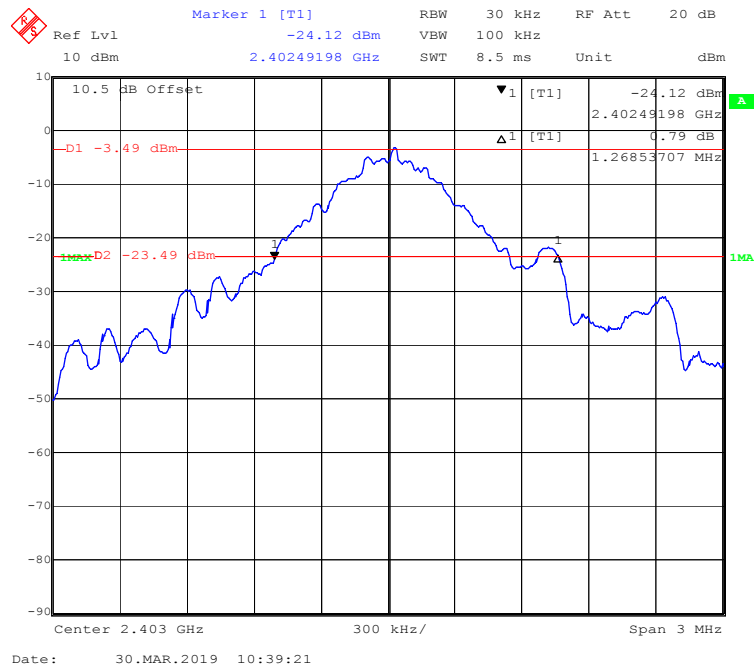
The testing was performed by Hope Zhang on 2019-03-30.

Test Result: Compliant.

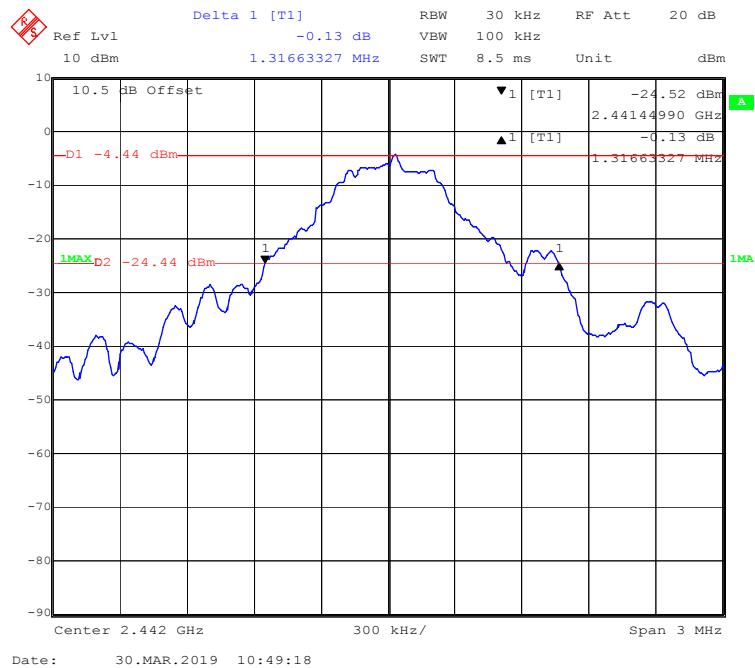
Test Mode: Transmitting

Channel	Frequency (MHz)	20 dB Bandwidth (MHz)
Low	2403	1.269
Middle	2442	1.317
High	2480	1.202

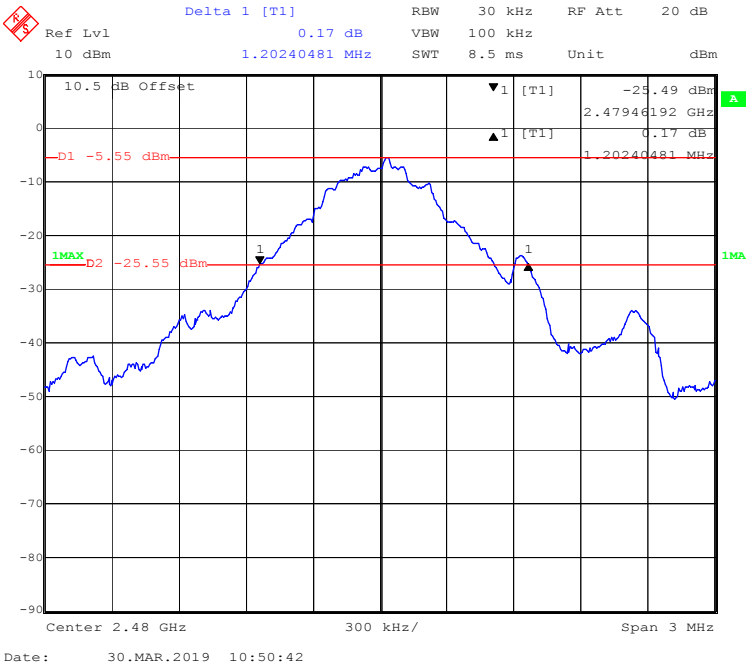
Low Channel



Middle Channel



High Channel



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