

FCC Part 15C Measurement and Test Report

For

LEEDARSON LIGHTING CO., LTD.

Xingda Road, Xingtai Industrial Zone, Changtai County, Zhangzhou,

Fujian, China

FCC ID: 2AB2QNS01RA13FR125

FCC Rule(s): FCC Part 15.247

Product Description: LED lamp

Tested Model: NS01RA13FR1-2591

Report No.: WTX19X06036419W-1

Sample Receipt Date: 2019-06-04

Tested Date: 2019-06-04 to 2019-06-12

Issued Date: 2019-06-13

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Note: This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by Shenzhen SEM Test Technology Co., Ltd.

TABLE OF CONTENTS

1. GENERAL INFORMATION.....	3
1.1 PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT).....	3
1.2 TEST STANDARDS.....	4
1.3 TEST METHODOLOGY.....	4
1.4 TEST FACILITY	4
1.5 EUT SETUP AND TEST MODE.....	5
1.6 MEASUREMENT UNCERTAINTY	5
1.7 TEST EQUIPMENT LIST AND DETAILS	6
2. SUMMARY OF TEST RESULTS	8
2. FIELD STRENGTH OF SPURIOUS EMISSIONS	9
2.1 STANDARD APPLICABLE.....	9
2.2 TEST PROCEDURE.....	9
2.3 CORRECTED AMPLITUDE & MARGIN CALCULATION.....	10
2.4 SUMMARY OF TEST RESULTS/PLOTS	10
3. OUT OF BAND EMISSIONS.....	18
9.1 STANDARD APPLICABLE.....	18
3.2 TEST PROCEDURE.....	18
3.3 SUMMARY OF TEST RESULTS/PLOTS	19
4. CONDUCTED EMISSIONS	21
4.1 TEST PROCEDURE.....	21
4.2 BASIC TEST SETUP BLOCK DIAGRAM.....	21
4.3 TEST RECEIVER SETUP	21
4.4 SUMMARY OF TEST RESULTS/PLOTS	21

1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

Client Information

Applicant: LEEDARSON LIGHTING CO., LTD.
Address of applicant: Xingda Road, Xingtai Industrial Zone, Changtai County,
Zhangzhou, Fujian, China

Manufacturer: LEEDARSON LIGHTING CO., LTD.
Address of manufacturer: Xingda Road, Xingtai Industrial Zone, Changtai County,
Zhangzhou, Fujian, China

General Description of EUT	
Product Name:	LED lamp
Trade Name:	/
Model No.:	NS01RA13FR1-2591
Adding Model(s):	NS01RA13FR1-25zx (x replaced by one digital numbers
	range 1 to 9 to denote different package style; z replaced by one digital numbers 8/9 to denote different CRI)
Rated Voltage:	AC120V
<i>Note: The test data is gathered from a production sample provided by the manufacturer. The appearance of others models listed in the report is different from main-test model NS01RA13FR1-2591, but the circuit and the electronic construction do not change, declared by the manufacturer.</i>	

Technical Characteristics of EUT	
Support Standards:	IEEE802.15.4
Frequency Range:	2405-2480MHz
RF Output Power:	12.85dBm (Conducted)
Type of Modulation:	OQPSK
Quantity of Channels:	16
Channel Separation:	5MHz
Type of Antenna:	PCB Antenna
Antenna Gain:	1.3dBi

1.2 Test Standards

The tests were performed according to following standards:

FCC Rules Part 15.247: Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz.

558074 D01 DTS Meas Guidance v05r02: GUIDANCE FOR PERFORMING COMPLIANCE MEASUREMENTS ON DIGITAL TRANSMISSION SYSTEMS (DTS) OPERATING UNDER SECTION 15.247

ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices.

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product, which result in lowering the emission, should be checked to ensure compliance has been maintained.

1.3 Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, KDB 558074 D01 DTS Meas Guidance v05r02.

The equipment under test (EUT) was configured to measure its highest possible emission level. The test modes were adapted accordingly in reference to the Operating Instructions.

1.4 Test Facility

FCC – Registration No.: 125990

Shenzhen SEM Test Technology Co., Ltd. Laboratory has been recognized to perform compliance testing on equipment subject to the Commissions Declaration Of Conformity (DOC). The Designation Number is CN5010, and Test Firm Registration Number is 125990.

Industry Canada (IC) Registration No.: 11464A

The 3m Semi-anechoic chamber of Shenzhen SEM Test Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 11464A.

1.5 EUT Setup and Test Mode

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements. All testing shall be performed under maximum output power condition, with a duty cycle equal to 100%, and to measure its highest possible emissions level, more detailed description as follows:

Test Mode List		
Test Mode	Description	Remark
TM1	Low	2405MHz
TM2	Middle	2445MHz
TM3	High	2480MHz

Test Conditions	
Temperature:	22~25 °C
Relative Humidity:	50~55 %.
ATM Pressure:	1019 mbar

EUT Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
/	/	/	/

Special Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
AC CABLE	1.2	Unshielded	Without Ferrite

Auxiliary Equipment List and Details			
Description	Manufacturer	Model	Serial Number
/	/	/	/

1.6 Measurement Uncertainty

Measurement uncertainty		
Parameter	Conditions	Uncertainty
RF Output Power	Conducted	$\pm 0.42\text{dB}$
Occupied Bandwidth	Conducted	$\pm 1.5\%$
Power Spectral Density	Conducted	$\pm 1.8\text{dB}$
Conducted Spurious Emission	Conducted	$\pm 2.17\text{dB}$
Conducted Emissions	Conducted	9-150kHz $\pm 3.74\text{dB}$
		0.15-30MHz $\pm 3.34\text{dB}$
Transmitter Spurious Emissions	Radiated	30-200MHz $\pm 4.52\text{dB}$
		0.2-1GHz $\pm 5.56\text{dB}$
		1-6GHz $\pm 3.84\text{dB}$
		6-18GHz $\pm 3.92\text{dB}$

1.7 Test Equipment List and Details

No.	Description	Manufacturer	Model	Serial No.	Cal Date	Due Date
SEMT-1072	Spectrum Analyzer	Agilent	E4407B	MY41440400	2019-04-30	2020-04-29
SEMT-1031	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/035	2019-04-30	2020-04-29
SEMT-1007	EMI Test Receiver	Rohde & Schwarz	ESVB	825471/005	2019-04-30	2020-04-29
SEMT-1008	Amplifier	Agilent	8447F	3113A06717	2019-04-30	2020-04-29
SEMT-1043	Amplifier	C&D	PAP-1G18	2002	2019-04-30	2020-04-29
SEMT-1011	Broadband Antenna	Schwarz beck	VULB9163	9163-333	2019-05-05	2021-05-04
SEMT-1042	Horn Antenna	ETS	3117	00086197	2019-05-05	2021-05-04
SEMT-1121	Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170582	2019-05-05	2021-05-04
SEMT-1069	Loop Antenna	Schwarz beck	FMZB 1516	9773	2019-05-05	2021-05-04
SEMT-1001	EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2019-04-30	2020-04-29
SEMT-1003	L.I.S.N	Schwarz beck	NSLK8126	8126-224	2019-04-30	2020-04-29
SEMT-1002	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2019-04-30	2020-04-29
SEMT-1168	Pre-amplifier	Direction Systems Inc.	PAP-0126	14141-12838	2019-04-30	2020-04-29
SEMT-1169	Pre-amplifier	Direction Systems Inc.	PAP-2640	14145-14153	2019-04-30	2020-04-29
SEMT-1163	Spectrum Analyzer	Rohde & Schwarz	FSP40	100612	2019-04-30	2020-04-29
SEMT-1170	DRG Horn Antenna	A.H. SYSTEMS	SAS-574	571	2019-05-05	2021-05-04
SEMT-1166	Power Limiter	Agilent	N9356B	MY45450376	2019-04-30	2020-04-29
SEMT-1048	RF Limiter	ATTEN	AT-BSF-2400~2500	/	2019-04-30	2020-04-29
SEMT-1076	RF Switcher	Top Precision	RCS03-A2	/	2019-04-30	2020-04-29
SEMT-C001	Cable	Zheng DI	LL142-07-07-10M(A)	/	2019-03-18	2020-03-17
SEMT-C002	Cable	Zheng DI	ZT40-2.92J-2.92J-6M	/	2019-03-18	2020-03-17
SEMT-C003	Cable	Zheng DI	ZT40-2.92J-2.92J-2.5M	/	2019-03-18	2020-03-17
SEMT-C004	Cable	Zheng DI	2M0RFC	/	2019-03-18	2020-03-17
SEMT-C005	Cable	Zheng DI	1M0RFC	/	2019-03-18	2020-03-17
SEMT-C006	Cable	Zheng DI	1M0RFC	/	2019-03-18	2020-03-17

Software List			
Description	Manufacturer	Model	Version
EMI Test Software (Radiated Emission)*	CCS	EZ-EMC	V1.0
EMI Test Software (Conducted Emission)*	CCS	EZ-EMC	V1.0

*Remark: indicates software version used in the compliance certification testing

2. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test Item	Result
§ 2.1093	RF Exposure	Compliant
§15.203; §15.247(b)(4)(i)	Antenna Requirement	Compliant
§15.205	Restricted Band of Operation	Compliant
§15.207(a)	Conducted Emission	Compliant
§15.247(e)	Power Spectral Density	Compliant
§15.247(a)(2)	6 dB Bandwidth	Compliant
§15.247(b)(3)	RF Output Power	Compliant
§15.209(a)	Radiated Emission	Compliant
§15.247(d)	Band Edge (Out of Band Emissions)	Compliant

Note: Part of the test data (RF Exposure, Antenna Requirement, Power Spectral Density, 6 dB Bandwidth, RF Output Power) could use the same as the original report (Report No.: WTX19X03014590W-1) because the RF part is electrically equal to the original equipment.

2. Field Strength of Spurious Emissions

2.1 Standard Applicable

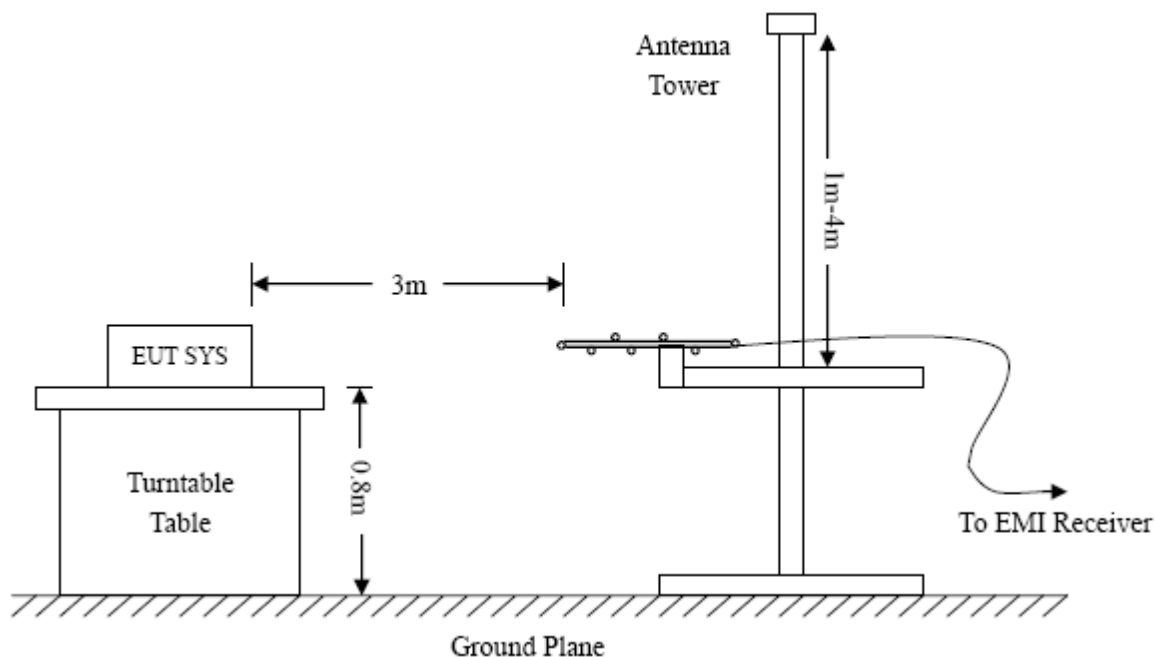
According to §15.247(d), in any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within 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. Attenuation below the general limits specified in §15.209(a) is not required. In addition, 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).

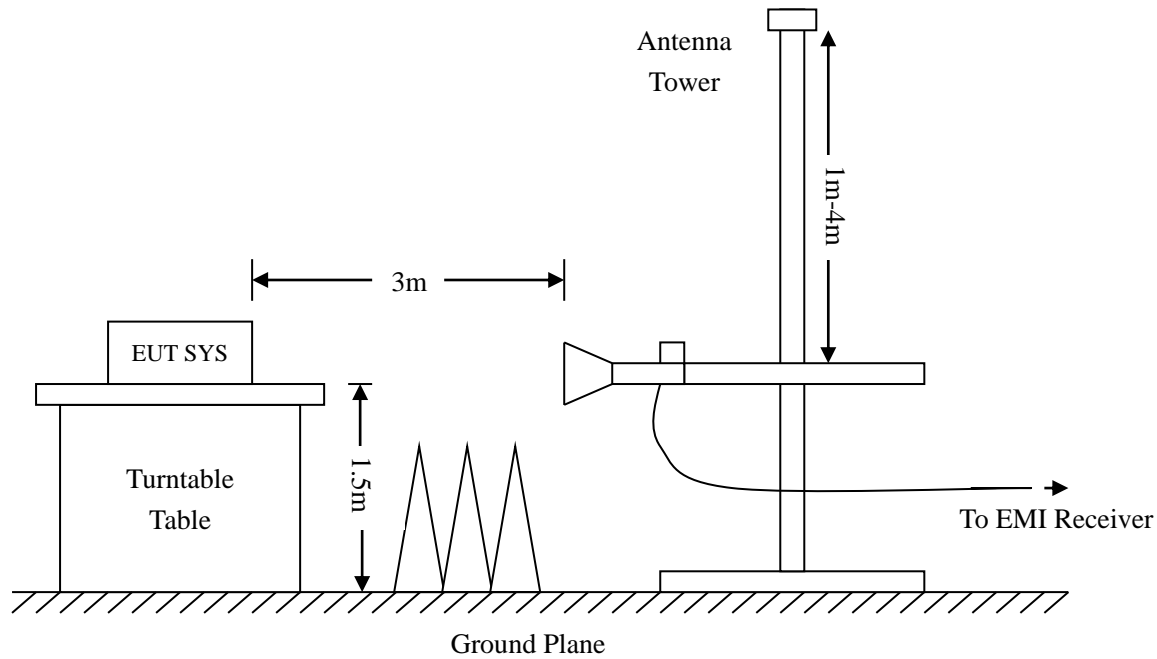
The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply. Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.

2.2 Test Procedure

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.205 15.247(a) and FCC Part 15.209 Limit.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle. The spacing between the peripherals was 10 cm.





Frequency :9kHz-30MHz

RBW=10KHz,

VBW =30KHz

Sweep time= Auto

Trace = max hold

Detector function = peak

Frequency :30MHz-1GHz

RBW=120KHz,

VBW=300KHz

Sweep time= Auto

Trace = max hold

Detector function = peak, QP

Frequency :Above 1GHz

RBW=1MHz,

VBW=3MHz(Peak), 10Hz(AV)

Sweep time= Auto

Trace = max hold

Detector function = peak, AV

2.3 Corrected Amplitude & Margin Calculation

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

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Ant. Factor} + \text{Cable Loss} - \text{Ampl. Gain}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -6dBμV means the emission is 6dBμV below the maximum limit. The equation for margin calculation is as follows:

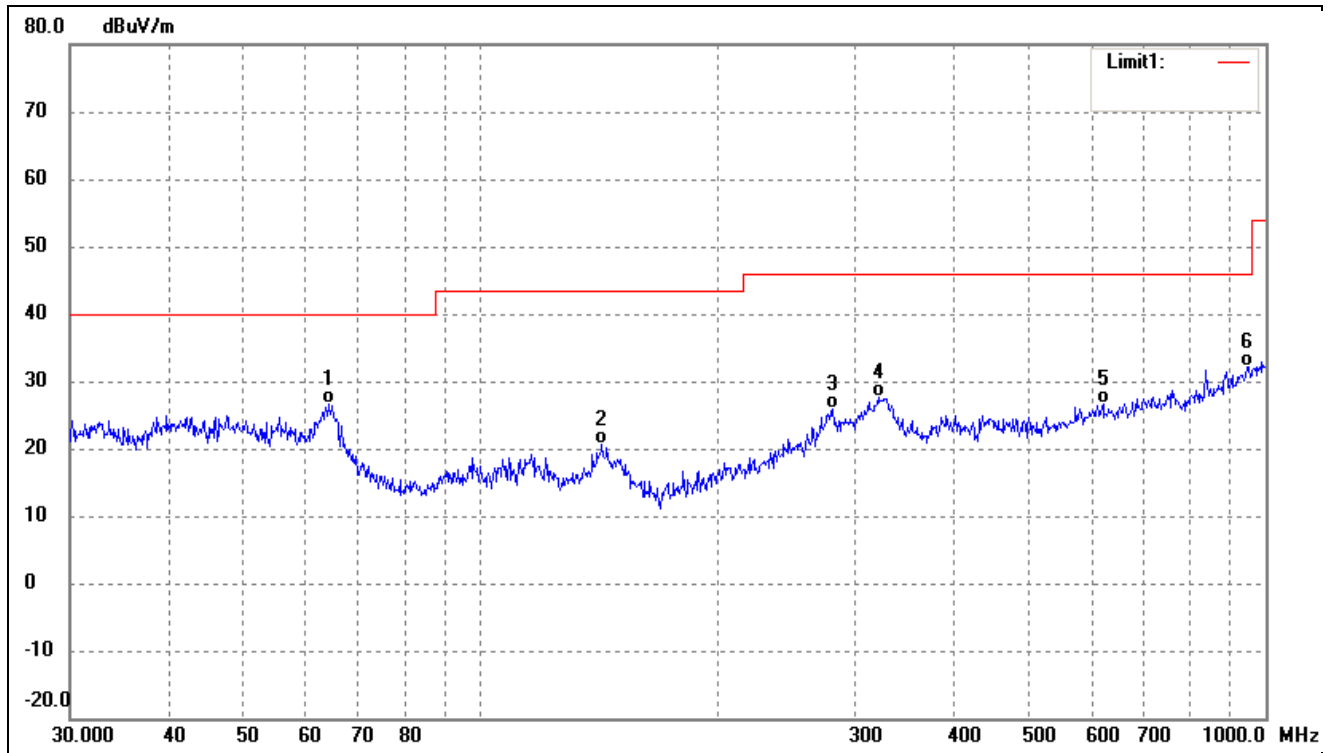
$$\text{Margin} = \text{Corr. Ampl.} - \text{FCC Part 15 Limit}$$

2.4 Summary of Test Results/Plots

Note: this EUT was tested in 3 orthogonal positions and the worst case position data was reported.

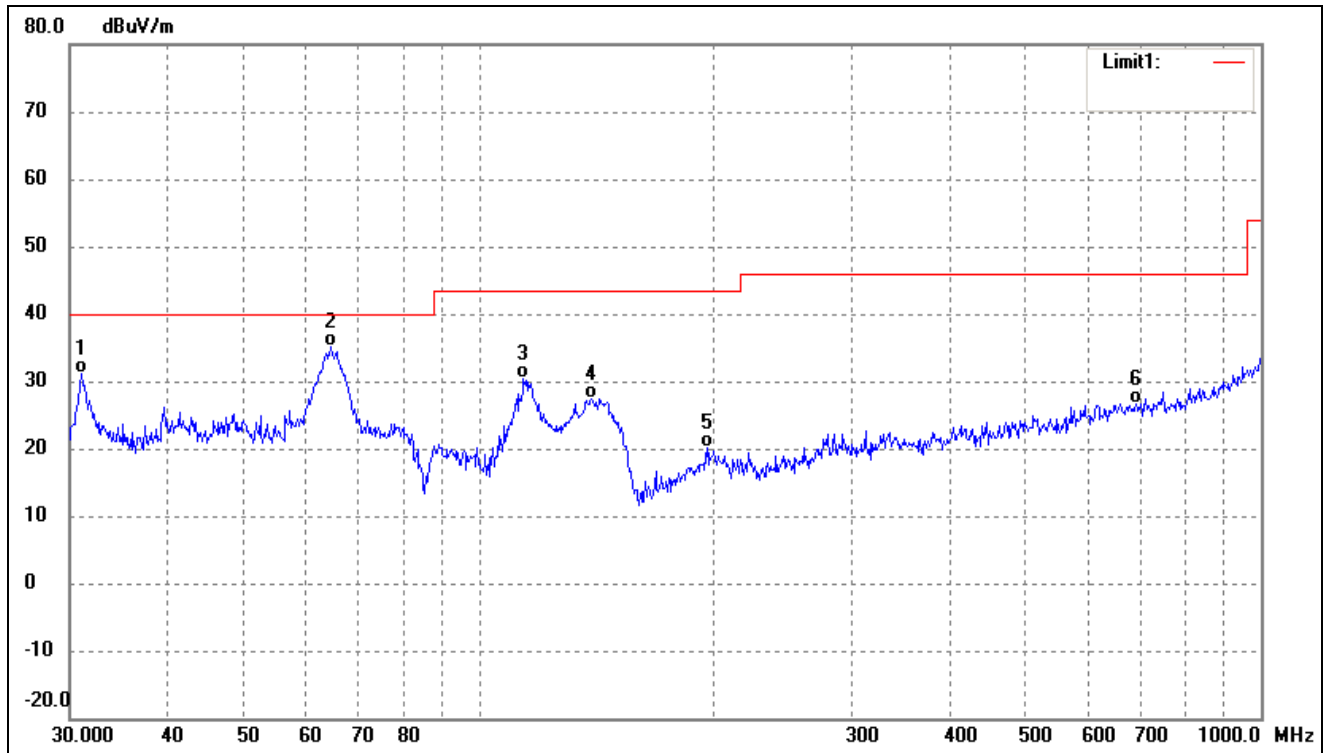
➤ Spurious Emissions Below 1GHz

Test Channel	Low	Polarity:	Horizontal
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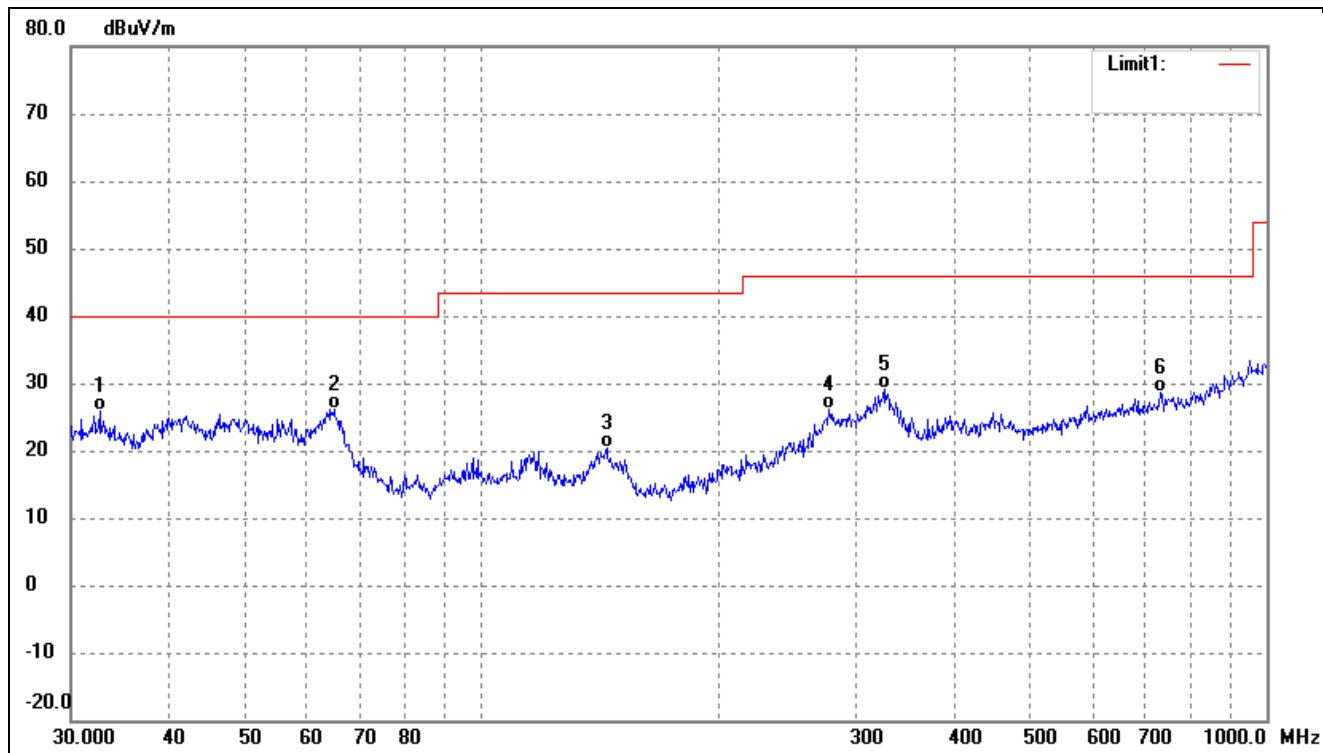
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	63.9828	38.63	-11.94	26.69	40.00	-13.31	299	100	QP
2	142.8244	38.40	-17.70	20.70	43.50	-22.80	92	100	QP
3	281.0075	35.90	-10.07	25.83	46.00	-20.17	135	100	QP
4	321.0608	36.44	-8.86	27.58	46.00	-18.42	103	100	QP
5	620.7096	30.50	-3.80	26.70	46.00	-19.30	358	100	QP
6	945.4399	29.59	2.61	32.20	46.00	-13.80	213	100	QP

Test Channel	Low	Polarity:	Vertical
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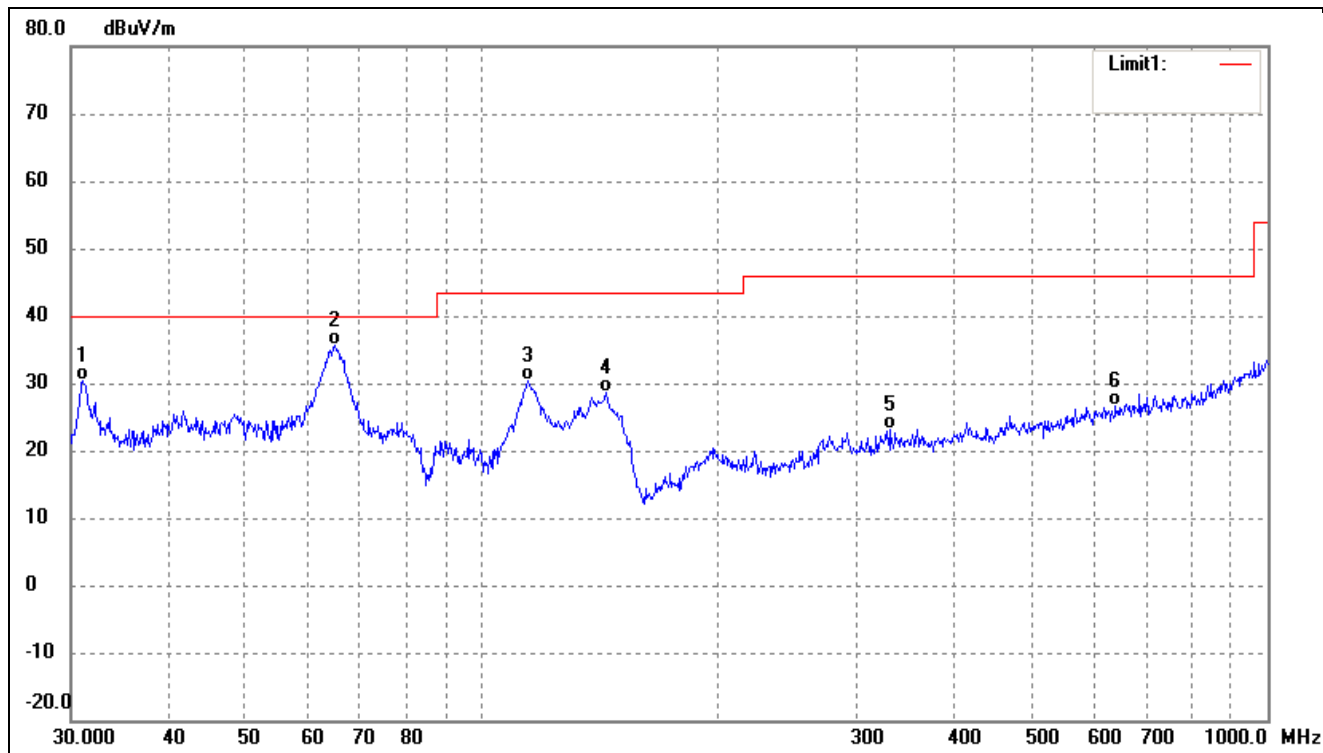
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	31.0706	40.57	-9.54	31.03	40.00	-8.97	312	100	QP
2	64.6594	47.24	-12.08	35.16	40.00	-4.84	91	100	QP
3	114.1138	45.55	-15.15	30.40	43.50	-13.10	94	100	QP
4	139.3613	44.99	-17.61	27.38	43.50	-16.12	95	100	QP
5	195.8220	33.74	-13.52	20.22	43.50	-23.28	235	100	QP
6	691.9867	29.27	-2.71	26.56	46.00	-19.44	152	100	QP

Test Channel	Middle	Polarity:	Horizontal
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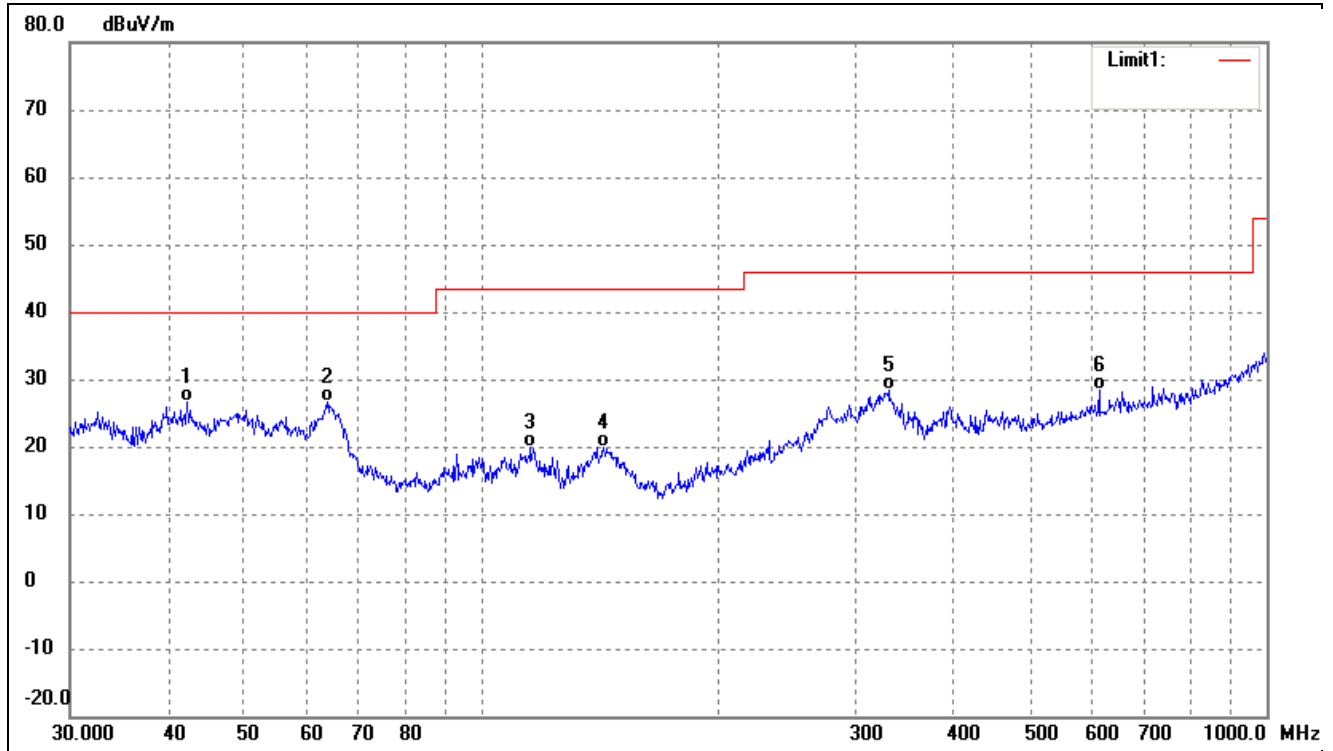
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	32.6340	35.65	-9.75	25.90	40.00	-14.10	302	100	QP
2	64.8865	38.32	-12.13	26.19	40.00	-13.81	346	100	QP
3	144.3348	38.10	-17.75	20.35	43.50	-23.15	66	100	QP
4	277.0935	36.29	-10.16	26.13	46.00	-19.87	98	100	QP
5	325.5958	37.79	-8.65	29.14	46.00	-16.86	289	100	QP
6	731.9203	30.55	-1.97	28.58	46.00	-17.42	160	100	QP

Test Channel	Middle	Polarity:	Vertical
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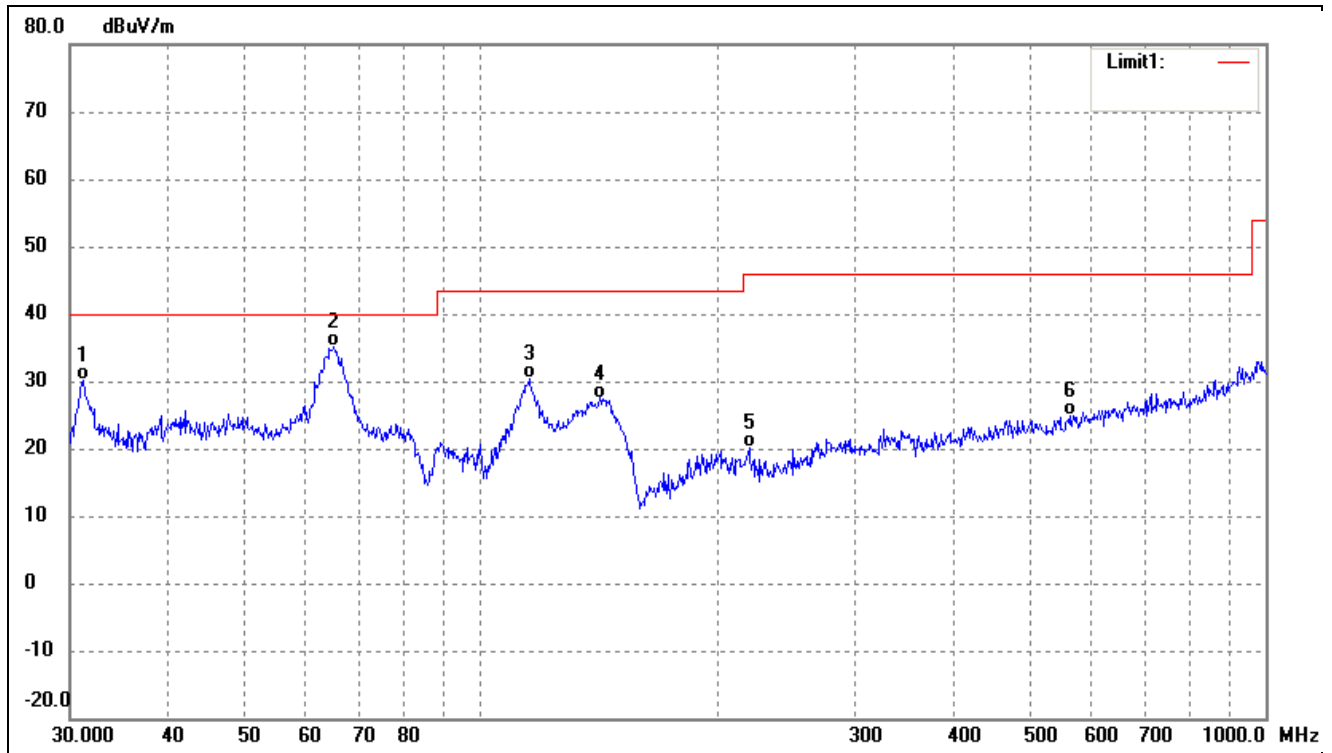
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	31.0706	39.98	-9.54	30.44	40.00	-9.56	151	100	QP
2	64.8865	47.71	-12.13	35.58	40.00	-4.42	205	100	QP
3	114.5146	45.61	-15.22	30.39	43.50	-13.11	70	100	QP
4	143.8295	46.32	-17.73	28.59	43.50	-14.91	274	100	QP
5	330.1949	31.50	-8.45	23.05	46.00	-22.95	77	100	QP
6	640.6110	30.12	-3.52	26.60	46.00	-19.40	153	100	QP

Test Channel	High	Polarity:	Horizontal
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No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	42.3022	34.53	-8.02	26.51	40.00	-13.49	190	100	QP
2	63.7588	38.52	-11.89	26.63	40.00	-13.37	128	100	QP
3	115.7256	35.20	-15.42	19.78	43.50	-23.72	78	100	QP
4	143.3261	37.57	-17.72	19.85	43.50	-23.65	146	100	QP
5	330.1949	36.74	-8.45	28.29	46.00	-17.71	213	100	QP
6	612.0642	32.23	-3.88	28.35	46.00	-17.65	159	100	QP

Test Channel	High	Polarity:	Vertical
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No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	31.1798	39.67	-9.57	30.10	40.00	-9.90	52	100	QP
2	65.1145	47.31	-12.21	35.10	40.00	-4.90	120	100	QP
3	115.3205	45.81	-15.36	30.45	43.50	-13.05	62	100	QP
4	141.8262	45.16	-17.66	27.50	43.50	-16.00	133	100	QP
5	219.8449	32.53	-12.46	20.07	46.00	-25.93	124	100	QP
6	562.6624	29.72	-4.88	24.84	46.00	-21.16	302	100	QP

➤ Spurious Emissions Below 1GHz

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel-2405MHz							
4810	60.96	-3.53	57.43	74	-16.57	H	PK
4810	37.94	-3.53	34.41	54	-19.59	H	AV
7215	62.06	-0.50	61.56	74	-12.44	H	PK
7215	41.14	-0.50	40.64	54	-13.36	H	AV
4810	59.70	-3.53	56.17	74	-17.83	V	PK
4810	39.28	-3.53	35.75	54	-18.25	V	AV
7215	60.81	-0.50	60.31	74	-13.69	V	PK
7215	41.91	-0.50	41.41	54	-12.59	V	AV
Middle Channel-2445MHz							
4890	56.53	-3.43	53.10	74	-20.90	H	PK
4890	42.38	-3.43	38.95	54	-15.05	H	AV
7335	61.94	-0.44	61.50	74	-12.50	H	PK
7335	39.48	-0.44	39.04	54	-14.96	H	AV
4890	62.51	-3.43	59.08	74	-14.92	V	PK
4890	41.69	-3.43	38.26	54	-15.74	V	AV
7335	64.35	-0.44	63.91	74	-10.09	V	PK
7335	43.27	-0.44	42.83	54	-11.17	V	AV
High Channel-2480MHz							
4960	58.67	-3.41	55.26	74	-18.74	H	PK
4960	38.67	-3.41	35.26	54	-18.74	H	AV
7440	61.77	-0.42	61.35	74	-12.65	H	PK
7440	40.36	-0.42	39.94	54	-14.06	H	AV
4960	59.65	-3.41	56.24	74	-17.76	V	PK
4960	39.23	-3.41	35.82	54	-18.18	V	AV
7440	60.59	-0.42	60.17	74	-13.83	V	PK
7440	42.79	-0.42	42.37	54	-11.63	V	AV

Note: Testing is carried out with frequency rang 9kHz to the tenth harmonics, other than listed in the table above are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

3. Out of Band Emissions

3.1 Standard Applicable

According to §15.247 (d), 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. Attenuation below the general limits specified in §15.209(a) is not required. In addition, 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).

3.2 Test Procedure

According to the KDB 558074, the band-edge radiated test method as follows:

Set span = wide enough to capture the peak level of the emission operating on the channel closest to the bandedge, as well as any modulation products which fall outside of the authorized band of operation (2310MHz to 2420MHz for low bandedge, 2460MHz to 2500MHz for the high bandedge)

RBW = 1MHz, VBW = 1MHz for peak value measured

RBW = 1MHz, VBW = 10Hz for average value measured

Sweep = auto; Detector function = peak/average; Trace = max hold

All the trace to stabilize, set the marker on the emission at the bandedge, or on the highest modulation product outside of the band, if this level is greater than that at the bandedge. Enable the marker-delta function, then use the marker-to-peak function to move the marker to the peak of the in-band emission. Those emission must comply with the 15.209 limit for fall in the restricted bands listed in section 15.205. Note that the method of measurement KDB publication number: 913591 may be used for the radiated bandedge measurements.

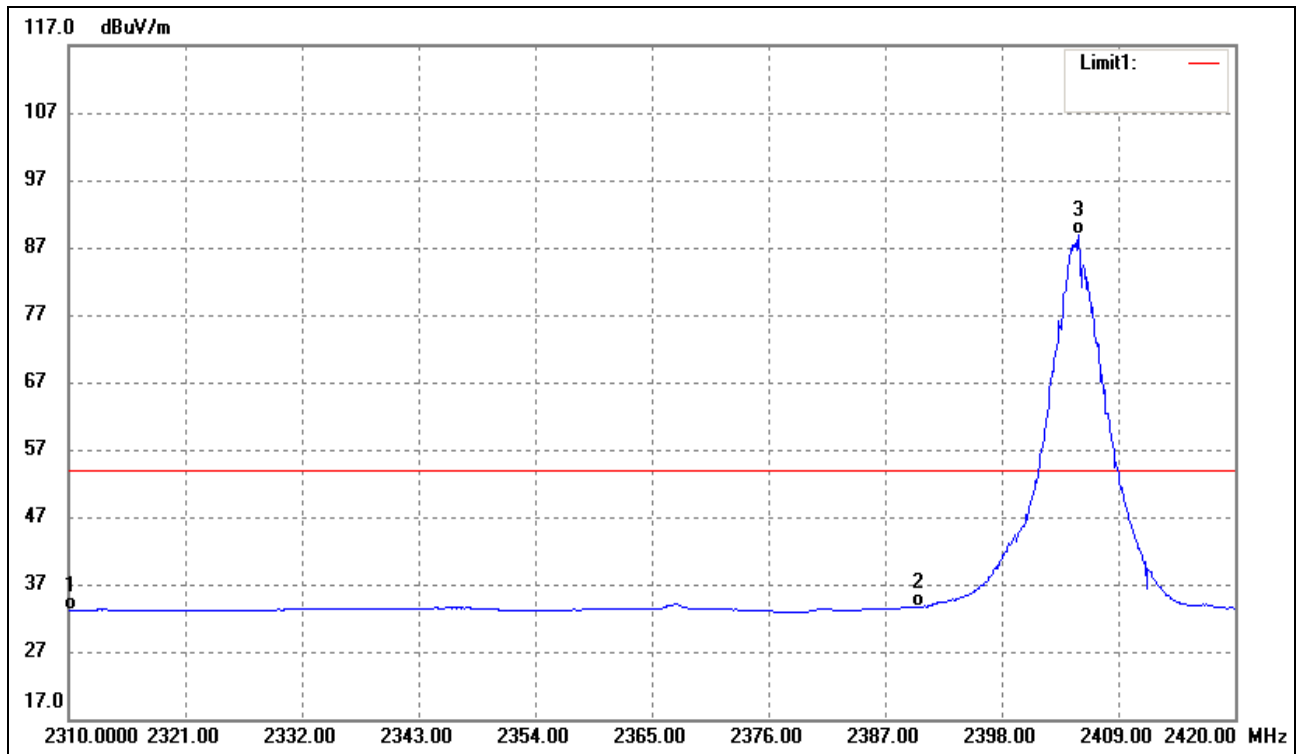
According to the KDB 558074, the conducted spurious emissions test method as follows:

1. Set start frequency to DTS channel edge frequency.
2. Set stop frequency so as to encompass the spectrum to be examined.
3. Set RBW = 100 kHz.
4. Set VBW \geq 300 kHz.
5. Detector = peak.
6. Trace Mode = max hold.
7. Sweep = auto couple.
8. Allow the trace to stabilize (this may take some time, depending on the extent of the span).
9. Use peak marker function to determine maximum amplitude of all unwanted emissions within any 100 kHz bandwidth.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) are attenuated by at least the minimum requirements specified in section 8.1. Report the three highest emissions relative to the limit.

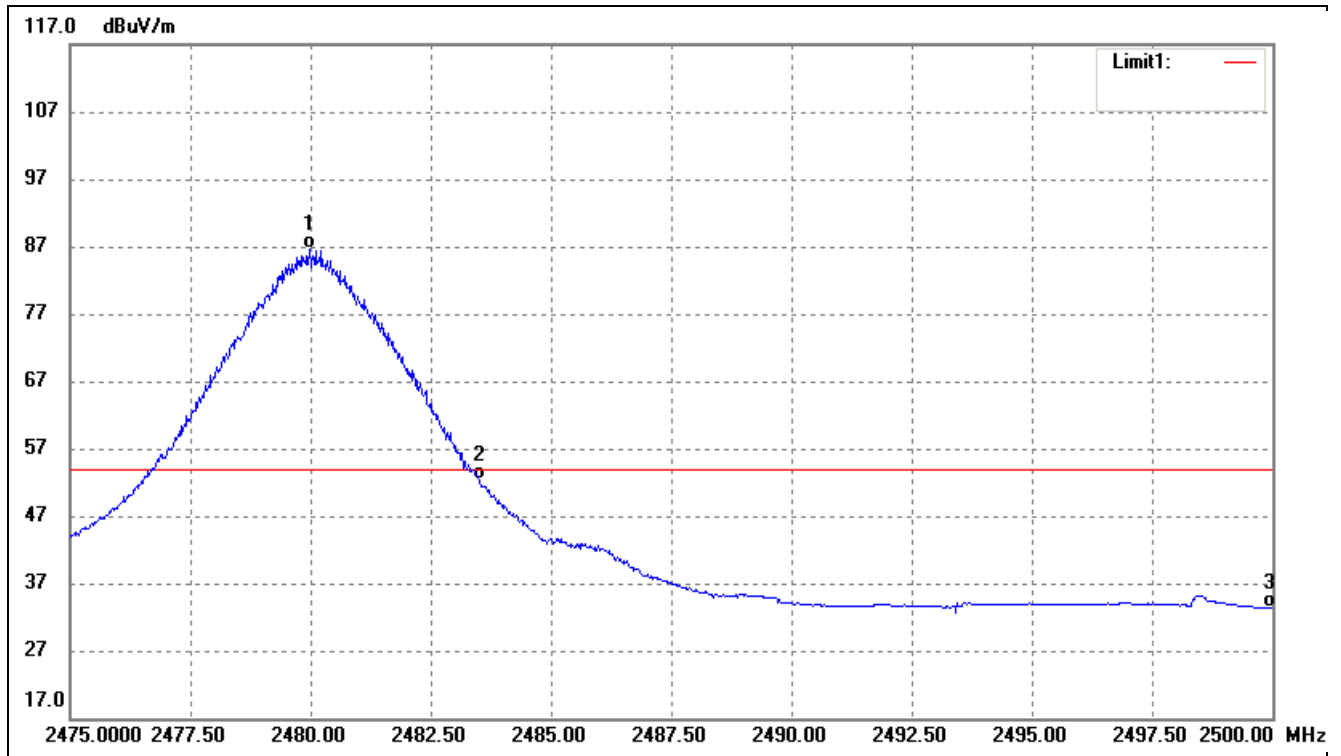
3.3 Summary of Test Results/Plots

Test Channel	Low	Polarity:	Vertical(worst case)
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No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	40.93	-7.78	33.15	54.00	-20.85	Average Detector
	2310.000	54.40	-7.78	46.62	74.00	-27.38	Peak Detector
2	2390.000	41.04	-7.32	33.72	54.00	-20.28	Average Detector
	2390.000	56.08	-7.32	48.76	74.00	-25.24	Peak Detector
3	2405.260	96.02	-7.22	88.80	/	/	Average Detector
	2404.600	111.11	-7.23	103.88	/	/	Peak Detector

Test Channel	High	Polarity:	Vertical(worst case)
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No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2479.975	93.35	-6.79	86.56	/	/	Average Detector
	2479.475	107.03	-6.79	100.24	/	/	Peak Detector
2	2483.500	59.12	-6.77	52.35	54.00	-1.65	Average Detector
	2483.500	76.26	-6.77	69.49	74.00	-4.51	Peak Detector
3	2500.000	39.95	-6.67	33.28	54.00	-20.72	Average Detector
	2500.000	52.93	-6.67	46.26	74.00	-27.74	Peak Detector

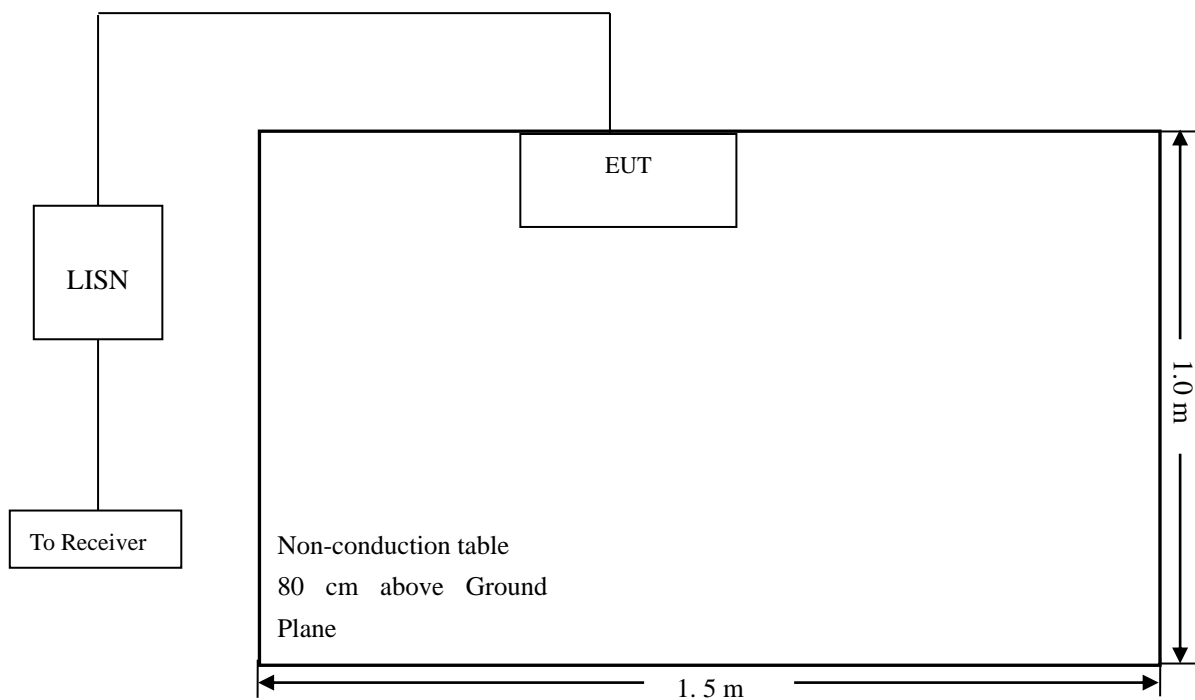
4. Conducted Emissions

4.1 Test Procedure

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

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle. The spacing between the peripherals was 10 cm.

4.2 Basic Test Setup Block Diagram



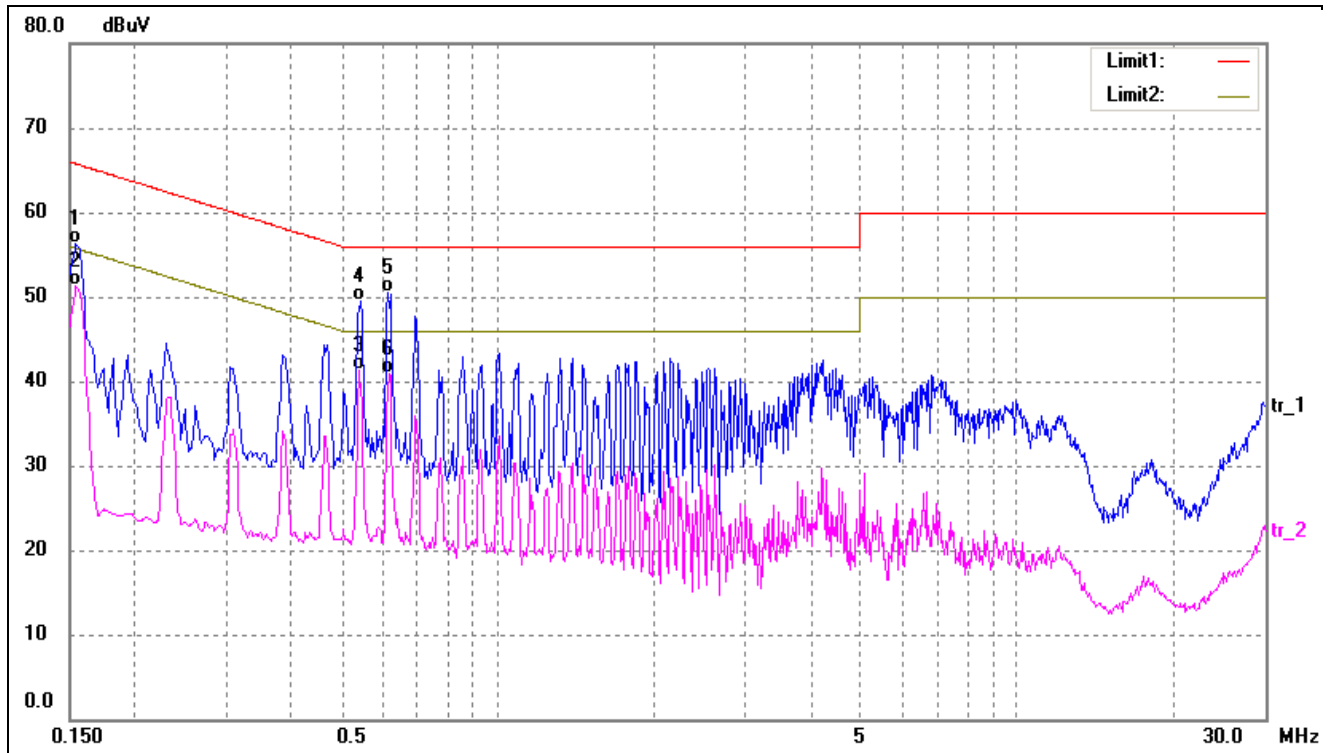
4.3 Test Receiver Setup

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

Start Frequency	150 kHz
Stop Frequency	30 MHz
Sweep Speed	Auto
IF Bandwidth.....	10 kHz
Quasi-Peak Adapter Bandwidth	9 kHz
Quasi-Peak Adapter Mode	Normal

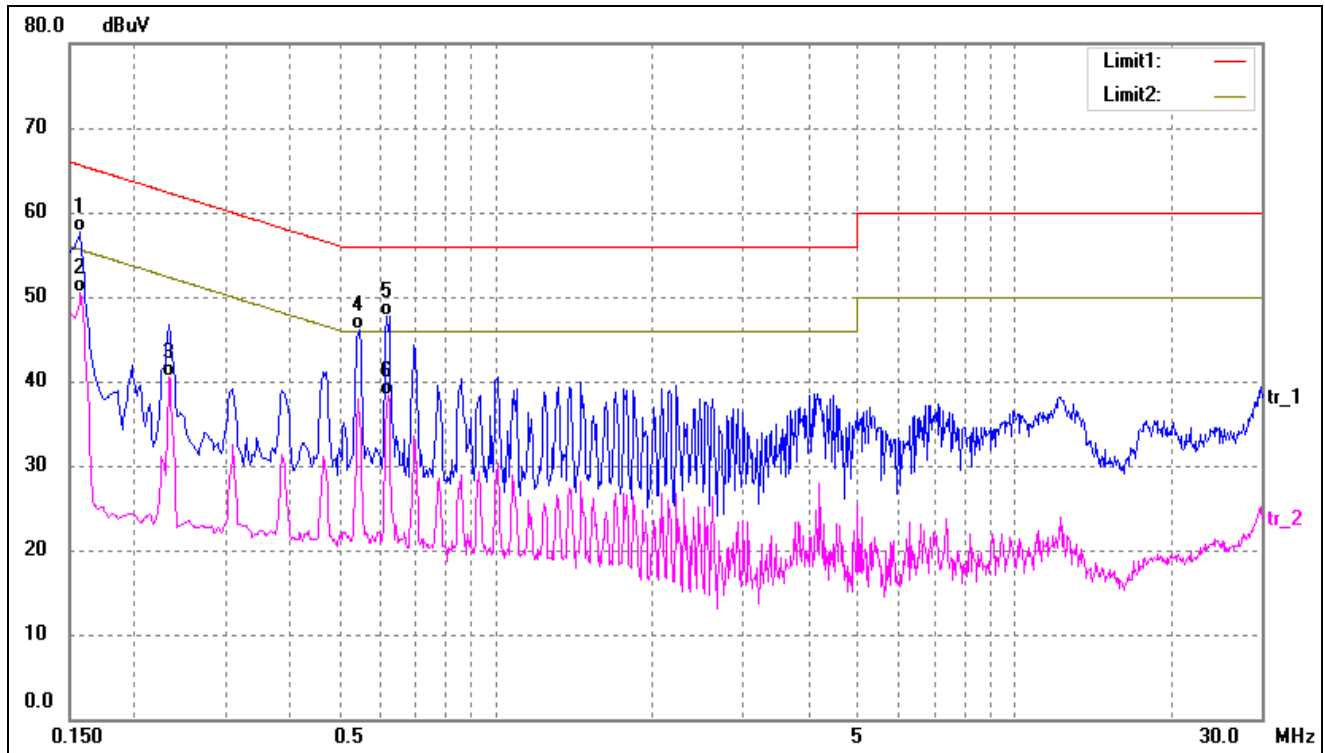
4.4 Summary of Test Results/Plots

Test Mode	Communication	AC120V 60Hz	Polarity:	Neutral
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1540	46.25	10.10	56.35	65.78	-9.43	QP
2*	0.1540	41.26	10.10	51.36	55.78	-4.42	AVG
3	0.5420	31.05	10.31	41.36	46.00	-4.64	AVG
4	0.5460	39.18	10.32	49.50	56.00	-6.50	QP
5	0.6140	40.22	10.35	50.57	56.00	-5.43	QP
6	0.6180	30.51	10.35	40.86	46.00	-5.14	AVG

Test Mode	Communication	AC120V 60Hz	Polarity:	Line
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1580	47.56	10.10	57.66	65.57	-7.91	QP
2*	0.1580	40.40	10.10	50.50	55.57	-5.07	AVG
3	0.2340	30.31	10.14	40.45	52.31	-11.86	AVG
4	0.5460	35.79	10.32	46.11	56.00	-9.89	QP
5	0.6140	37.28	10.35	47.63	56.00	-8.37	QP
6	0.6180	27.93	10.35	38.28	46.00	-7.72	AVG

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