FCC Radio Test Report

FCC ID: OMOLTV-BBQ1

This report concerns (check one): ☒Original Grant ☐Class II Change

Project No.	:	1901C026
Equipment	:	La Crosse View BBQ sensor
Model Name	:	LTV-BBQ1
Series Models	:	LTV-BBQ1-INT, LTV-BBQ1vX, LTV-BBQ1vX-INT, LTV-BBQ1-XX, LTV-BBQ1-XX-INT
Applicant	:	La Crosse Technology Ltd.
Address	:	2809 Losey Blvd. S. La Crosse Wisconsin 54601 United States.

Date of Receipt	:	Jan. 07, 2019
Date of Test	:	Jan. 07, 2019 ~ Jan. 10, 2019
Issued Date	:	Jan. 21, 2019
Tested by	:	BTL Inc.

Testing Engineer : Rose. Liu
(Rose Liu)

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BTL INC.

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Certificate #5123.02

Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

BTL's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **BTL** shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **BTL** issued reports.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, A2LA, or any agency of the U.S. Government.

This report is the confidential property of the client. As a mutual protection to the clients, the public and ourselves, the test report shall not be reproduced, except in full, without our written approval.

BTL's laboratory quality assurance procedures are in compliance with the **ISO/IEC 17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

BTL is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

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REPORT ISSUED HISTORY

Report Version	Description	Issued Date
R00	Original Issue	Jan. 17, 2019
R01	Modified the type error on page 32 and 33.	Jan. 21, 2019

1. GENERAL SUMMARY

Equipment	:	La Crosse View BBQ sensor
Brand Name	:	LA CROSSE TECHNOLOGY
Model Name	:	LTV-BBQ1
Series Models	:	LTV-BBQ1-INT, LTV-BBQ1vX, LTV-BBQ1vX-INT, LTV-BBQ1-XX, LTV-BBQ1-XX-INT
Applicant	:	La Crosse Technology Ltd.
Manufacturer	:	La Crosse Technology
Address	:	2809 Losey Blvd. S. La Crosse Wisconsin 54601 United States
Factory Address		La Crosse Technology 2809 Losey Blvd. S. La Crosse Wisconsin 54601 United States
Date of Test	:	Jan. 07, 2019 ~ Jan. 10, 2019
Test Sample	:	Engineering Sample No: D190100097
Standard(s)	:	FCC Part15, Subpart C(15.249)/ ANSI C63.10-2013

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.
The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCP-1-1901C026) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of A2LA according to the ISO/IEC 17025 quality assessment standard and technical standard(s).

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

FCC Part15, Subpart C (15.249)			
StandardSection	Test Item	Judgment	Remark
15.207	Conducted Emission	N/A	Note (1)
15.209 15.249	Radiated Spurious Emission	PASS	
-	Bandwidth	PASS	

NOTE:

(1)"N/A" denotes test is not applicable in this test report.

(2) EUT is used new battery.

2.1 TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No.3,Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China.
BTL's Test Firm Registration Number for FCC: 357015
BTL's Designation Number for FCC: CN1240

2.2 MEASUREMENT UNCERTAINTY

The measurement uncertainty figures shall be calculated according the methods described in the ETSI TR 100 028 and shall correspond to an expansion factor (coverage factor) k=1.96 or k=2(which provide confidence levels of respectively 90% and 95.45% in the case where the distributions characterizing the actual measurement uncertainties are normal (Gaussian)). Measurement Uncertainty for a Level of Confidence of 95 %, U=2xUc(y).

The BTL measurement uncertainty as below table:

A. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)
DG-CB03	CISPR	9 kHz~30 MHz	V	3.79
		9 kHz~30 MHz	H	3.57
		30 MHz~200 MHz	V	3.82
		30 MHz~200 MHz	H	3.60
		200 MHz~1,000 MHz	V	3.86
		200 MHz~1,000 MHz	H	3.94
		1 GHz~18 GHz	V	3.12
		1 GHz~18 GHz	H	3.68
		18 GHz~40 GHz	V	4.15
		18 GHz~40 GHz	H	4.14

Note: Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

3.GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	La Crosse View BBQ sensor	
Brand Name	LA CROSSE TECHNOLOGY	
Model Name	LTV-BBQ1	
Series Model	LTV-BBQ1-INT, LTV-BBQ1vX, LTV-BBQ1vX-INT, LTV-BBQ1-XX, LTV-BBQ1-XX-INT	
Model Difference	X can be 0~9, the difference for different version are the product shell color, software, and packaging upgrade version number, when upgrade a version the number progressed to next number. These differences do not affect the RF function.	
Product Description	Operation Frequency	915 MHz
	Modulation Technology	FSK
	Data rate	9.6bps
	Field Strength	72.71dBuV/m
PowerSource	2*AAA Battery supplied	
Power Rating	DC 3V	

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

2. Channel List:

Channe	Frequency (MHz)
01	915

3. Table for Filed Antenna:

Ant.	Manufacturer	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	PCB	N/A	0

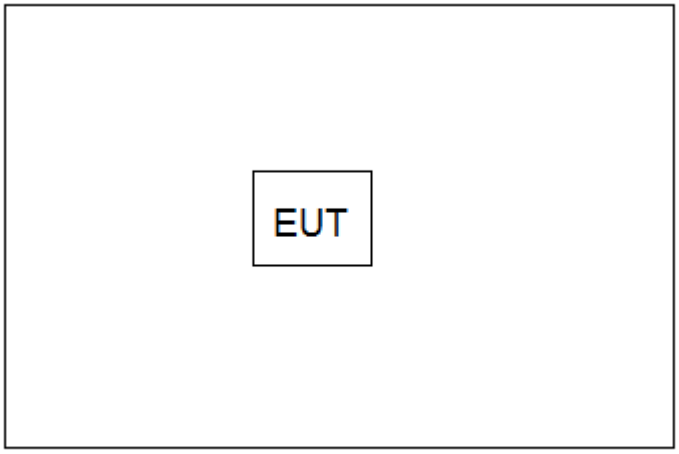
3.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based 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.

Pretest Mode	Description
Mode 1	TX Mode

Final Test Mode	Description
Mode 1	TX Mode

3.3 BLOCKDIAGRAMSHOWINGTHECONFIGURATIONOFSYSTEMTESTED



3.4 DESCRIPTION OF SUPPORT UNITS

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.
-	-	-	-	-

Item	Shielded Type	Ferrite Core	sLength	Note
-	-	-	-	-

4. EMC EMISSION TEST

4.1 RADIATED EMISSION MEASUREMENT

4.1.1 RADIATED EMISSION LIMITS (FCC 15.209 and 15.249)

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
960~1000	500	3

Harmonic emissions limits comply with below 54dBuV/m at 3m. Other 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 comply with the radiated emissions limits specified in section15.209(a) limit in the table below has to be followed.

Fundamental Frequency	Field Strength of Fundamental (micorvolts/meter)	Field Strength of Harnibucs (micorvolts/meter)
902-928 MHz	50	500

LIMITS OF RADIATED EMISSION MEASUREMENT (FCC 15.209)

FREQUENCY (MHz)	(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	10th carrier harmonic

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~90kHz for PK/AVG detector
Start ~ Stop Frequency	90kHz~110kHz for QP detector
Start ~ Stop Frequency	110kHz~490kHz for PK/AVG detector
Start ~ Stop Frequency	490kHz~30MHz for QP detector
Start ~ Stop Frequency	30MHz~1000MHz for QP detector

DWELL TIME OF PERIODIC OPERATION MEASUREMENT

Duty Cycle = On Time/Total Time

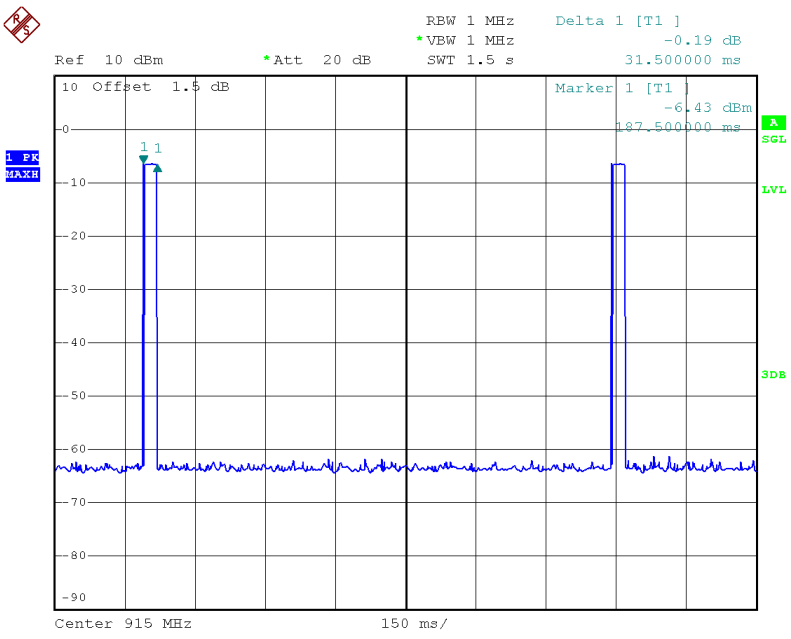
T_{ON}: 31.50 ms

T_{Total}: 100 ms

Duty cycle=31.50/100= 31.5%

Average Reading = Peak value + 20log(Duty cycle) , AV=Peak-10.03

On Time



Date: 10.JAN.2019 19:38:53

4.1.2 TESTPROCEDURE

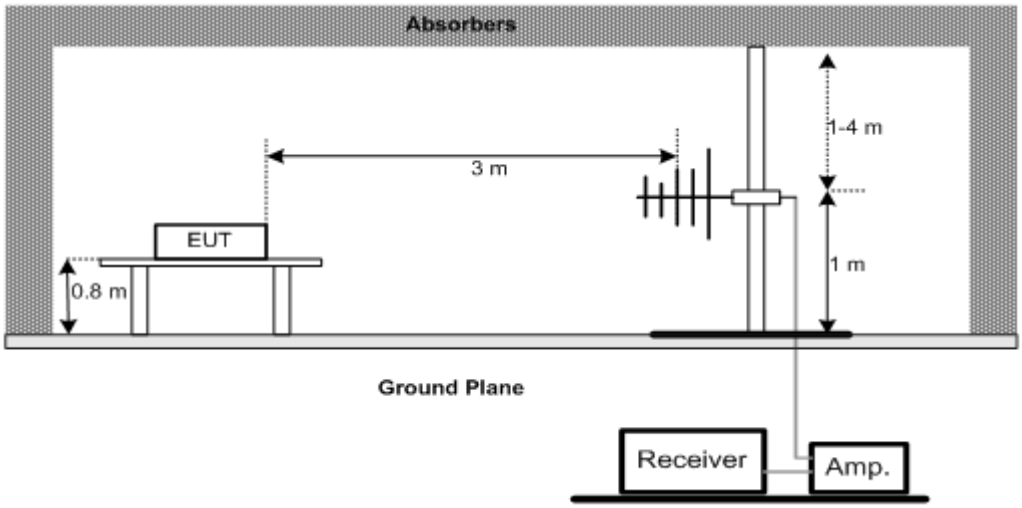
a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
b. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
c. The height of the equipment or of the substitution antenna shall be 0.8 m or 1.5m,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 each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
e. The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1GHz.
f. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
g. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn‘t perform. (below 1GHz)
h. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn‘t perform. (above 1GHz)
i. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.1.3 DEVIATIONFROMTESTSTANDARD

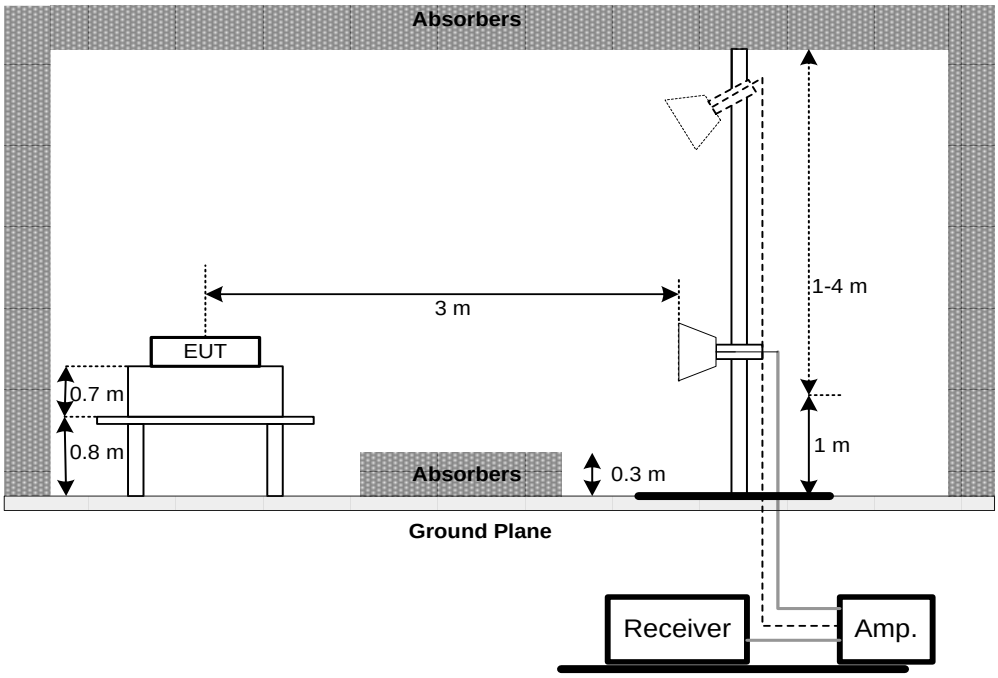
No deviation

4.1.4 TESTSETUP

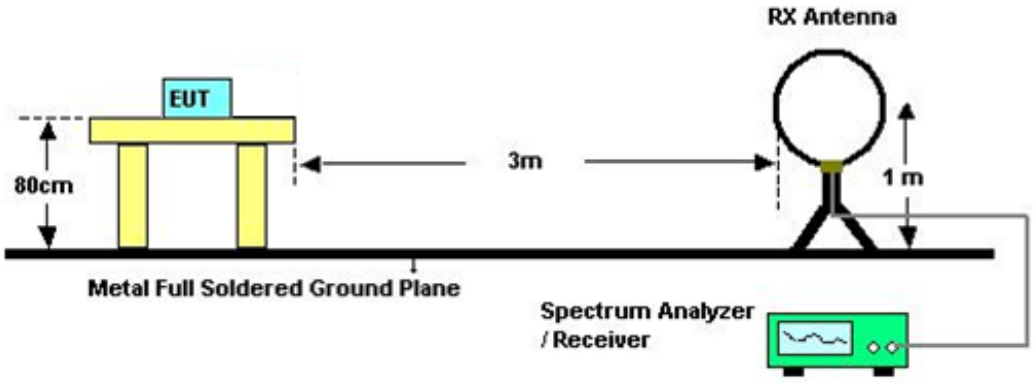
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



(B) Radiated Emission Test Set-Up Frequency Above 1 GHz



(C) For radiated emissions below 30MHz



4.1.5EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 unless otherwise a special operating condition is specified in the follows during the testing.

4.1.6 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 60% Test Voltage: DC 3V

4.1.7 TEST RESULTS (BELOW 30MHz)

Please refer to the Appendix A.

Remark:

(1) The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.
(2) Distance extrapolation factor = 40 log (specific distance / test distance) (dB);.
(3) Limit line = specific limits (dBuV) + distance extrapolation factor..

4.1.8 TEST RESULTS (30 TO 1000 MHz)

Please refer to the Appendix B

4.1.9 TEST RESULTS(ABOVE1000 MHz)

Please refer to the Appendix C

Remark:

(1) EUT Orthogonal Axis:

"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand

(2) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

5. BANDWIDTH TEST

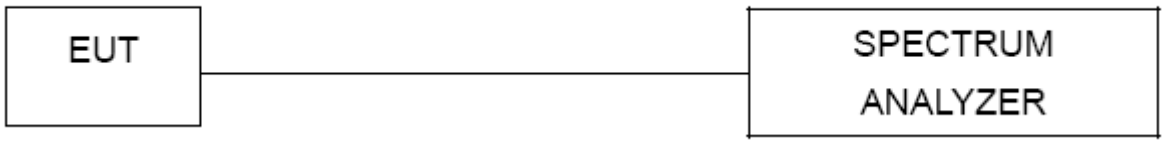
5.1 TEST PROCEDURE

a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
b. Spectrum Setting: RBW= 3kHz, VBW=3kHz, Sweep time = Auto.

5.2 DEVIATION FROM STANDARD

No deviation.

5.3 TEST SETUP



5.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 unless otherwise a special operating condition is specified in the follows during the testing.

5.5 EUT TEST CONDITIONS

Temperature: 24.8°C Relative Humidity: 63% Test Voltage: DC 3V

5.6 TEST RESULTS

Please refer to the Appendix D

6. MEASUREMENT INSTRUMENTS LIST AND SETTING

Radiated Emissions - 9 kHz to 30 MHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Loop Antenna	EM	EM-6876-1	230	Feb. 07, 2019
2	Cable	emci	EMC80-NM-NM-12000(9KHz-1GHz)	N/A	N/A
3	EMI Test Receiver	R&S	ESCI	100382	Mar. 11, 2019
4	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Radiated Emissions - 30 MHz to 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	Schwarzbeck	VULB9160	9160-3232	Mar. 11, 2019
2	Amplifier	HP	8447D	2944A08908	Mar. 11, 2019
3	Receiver	Agilent	N9038A	MY52130039	Aug. 11, 2019
4	Cable	emci	LMR-400(30MHz-1GHz)(8m+5m)	N/A	May 25, 2019
5	Controller	CT	SC100	N/A	N/A
6	Controller	MF	MF-7802	MF780208416	N/A
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Radiated Emissions - Above 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Double Ridged Guide Antenna	ETS	3115	75789	Mar. 11, 2019
2	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Jun. 30, 2019
3	Amplifier	Agilent	8449B	3008A02274	Mar. 11, 2019
4	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 11, 2019
5	Receiver	Agilent	N9038A	MY52130039	Aug. 11, 2019
6	Controller	CT	SC100	N/A	N/A
7	Controller	MF	MF-7802	MF780208416	N/A
8	Cable	mitron	B10-01-01-12M	18072744	Jul. 30, 2019
9	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

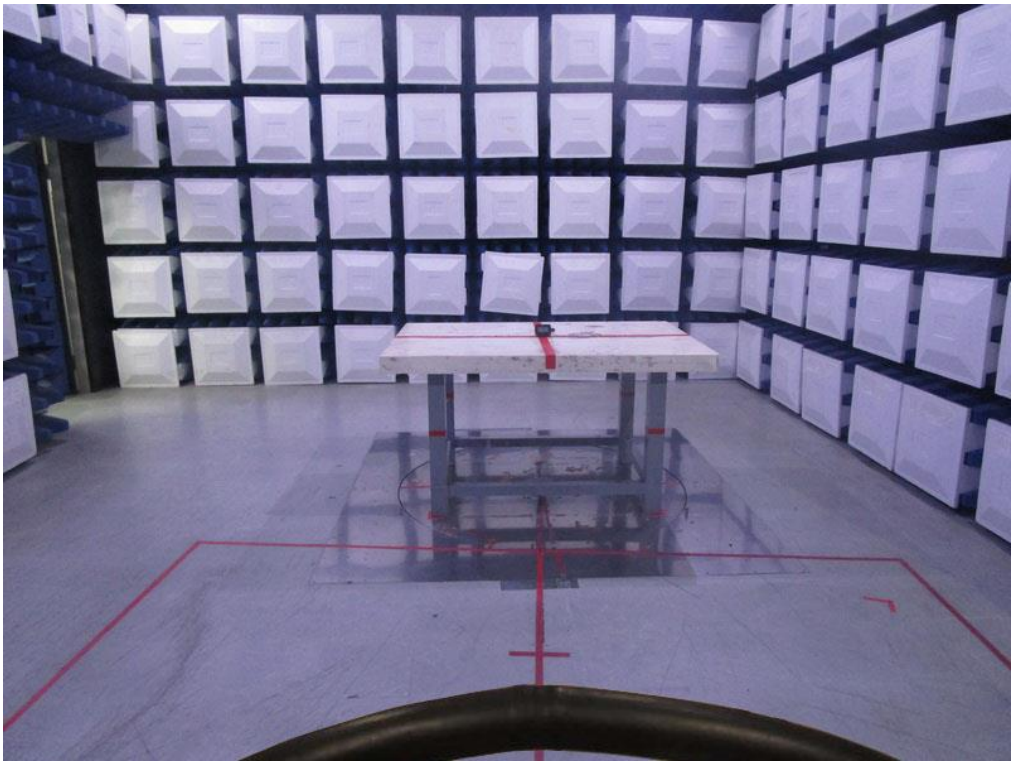
Bandwidth					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 11, 2019
2	Test Cable	emci	EMC104-SM-SM-9000(0.01GHz - 26.5GHz)	C-100	N/A

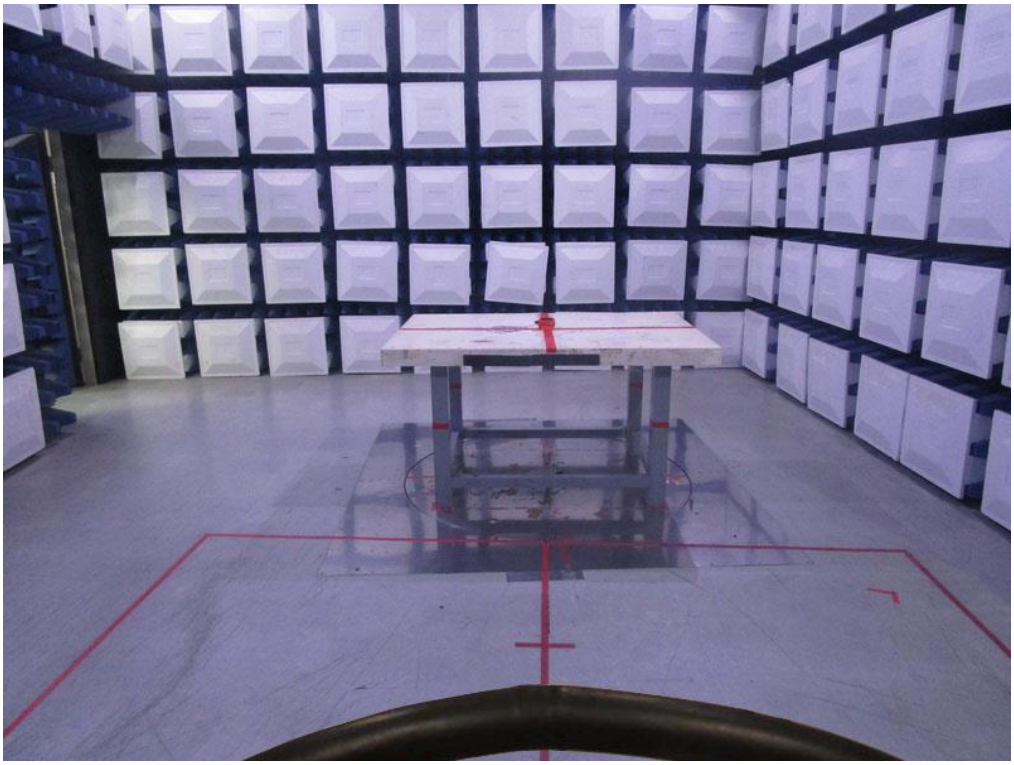
Remark: “N/A” denotes no model name, serial no. or calibration specified.
All calibration period of equipment list is one year.

7. EUT TEST PHOTO

Radiated Measurement Photos

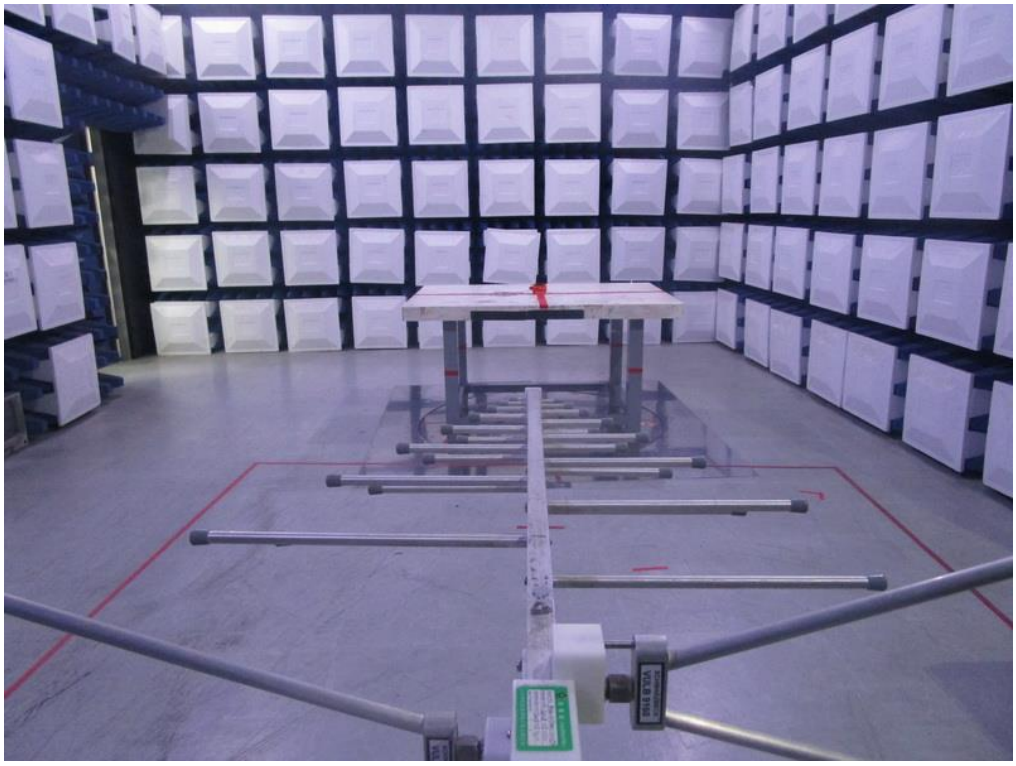
9KHz to 30MHz





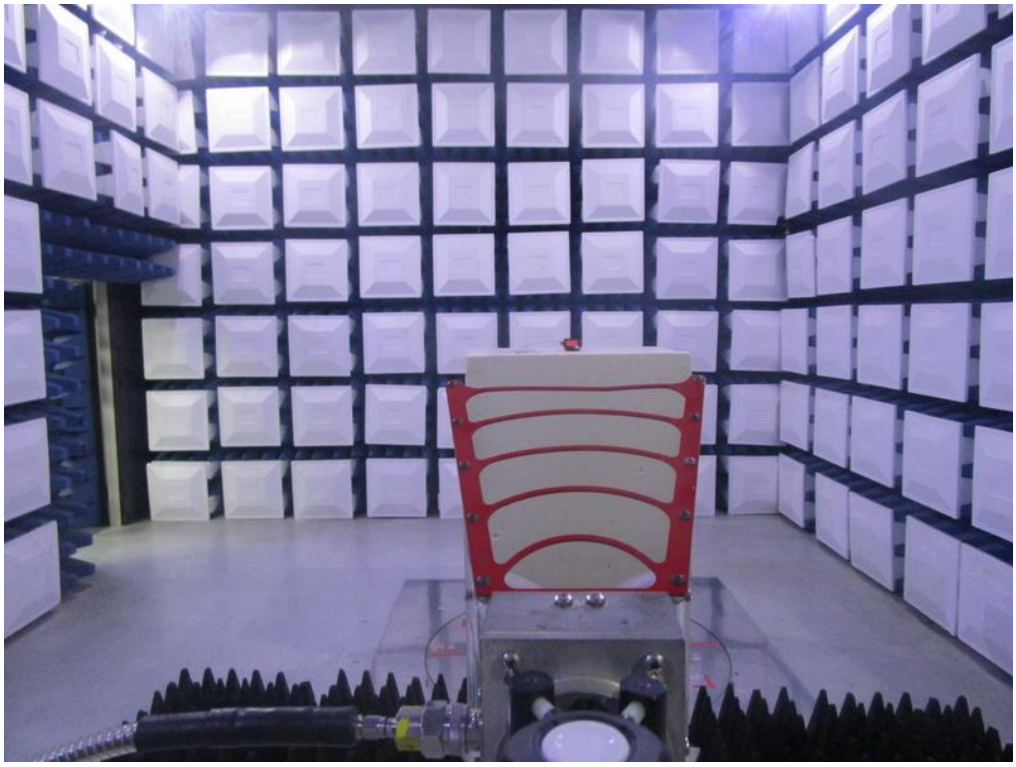
Radiated Measurement Photos

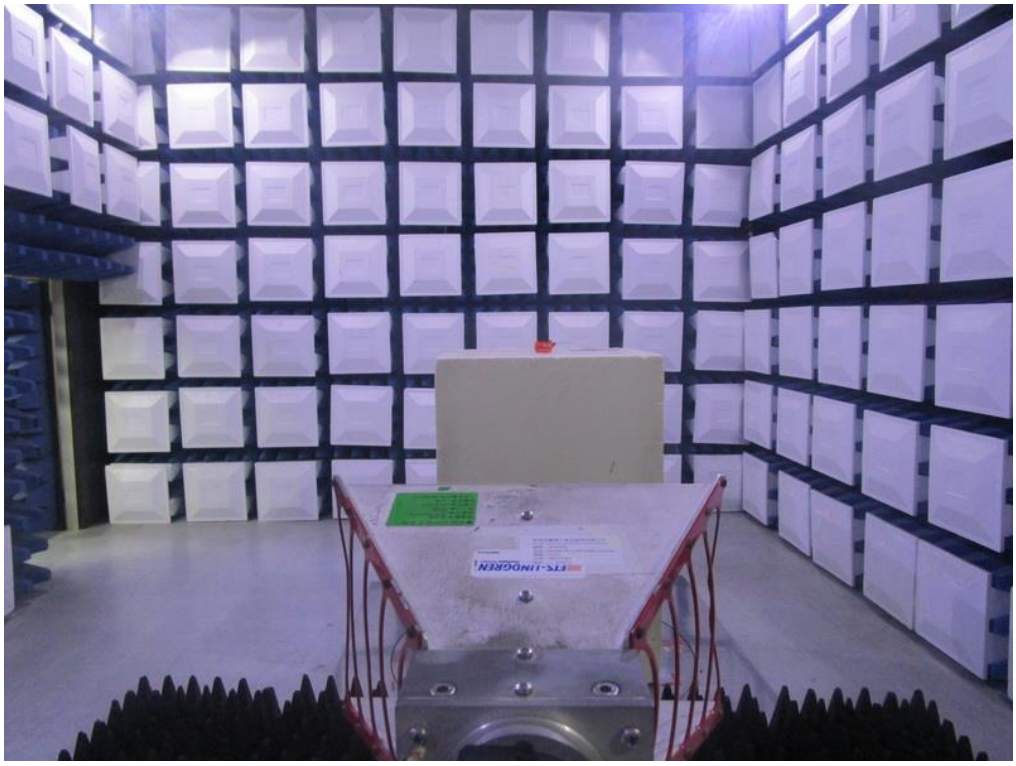
30MHz to 1000MHz



Radiated Measurement Photos

Above 1000MHz

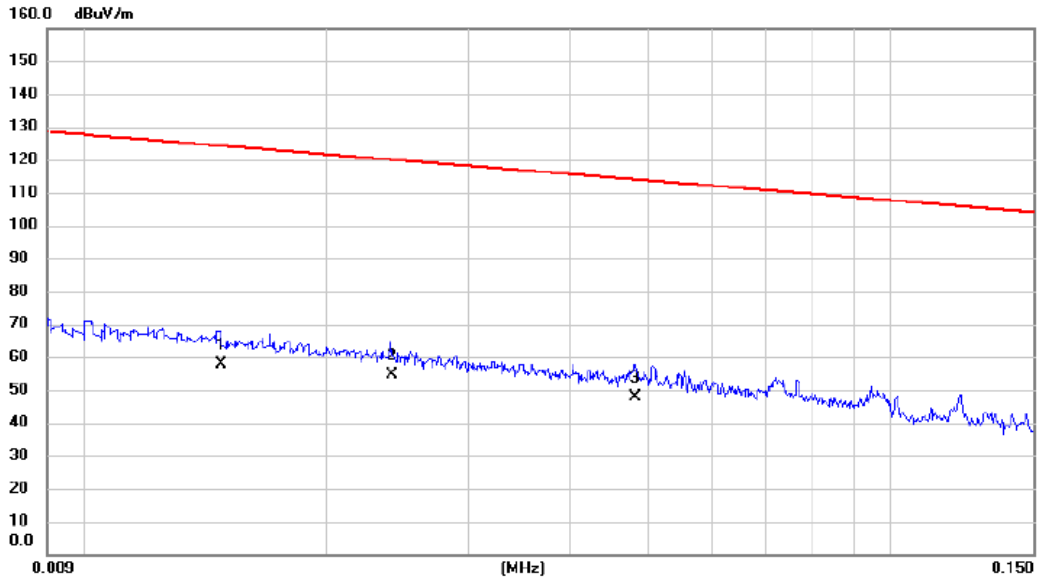




APPENDIX A -RADIATED EMISSION (9KHZ to 30MHZ)

Test Mode:	TX Mode

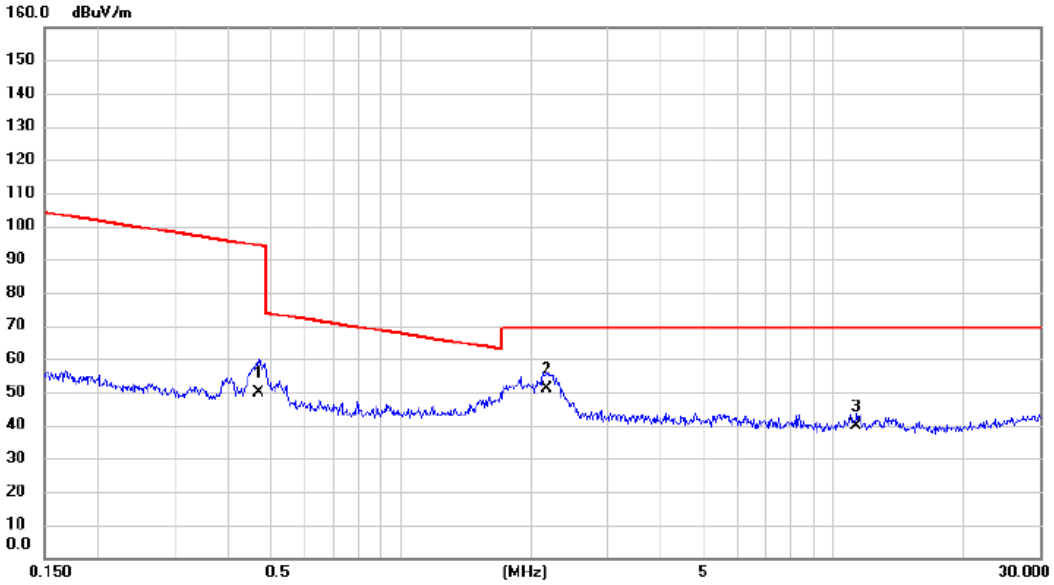
Ant 0°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.0148	37.20	20.75	57.95	124.20	-66.25	AVG	
2	*	0.0241	34.70	19.95	54.65	119.96	-65.31	AVG	
3		0.0483	28.20	19.56	47.76	113.93	-66.17	AVG	

Test Mode:	TX Mode

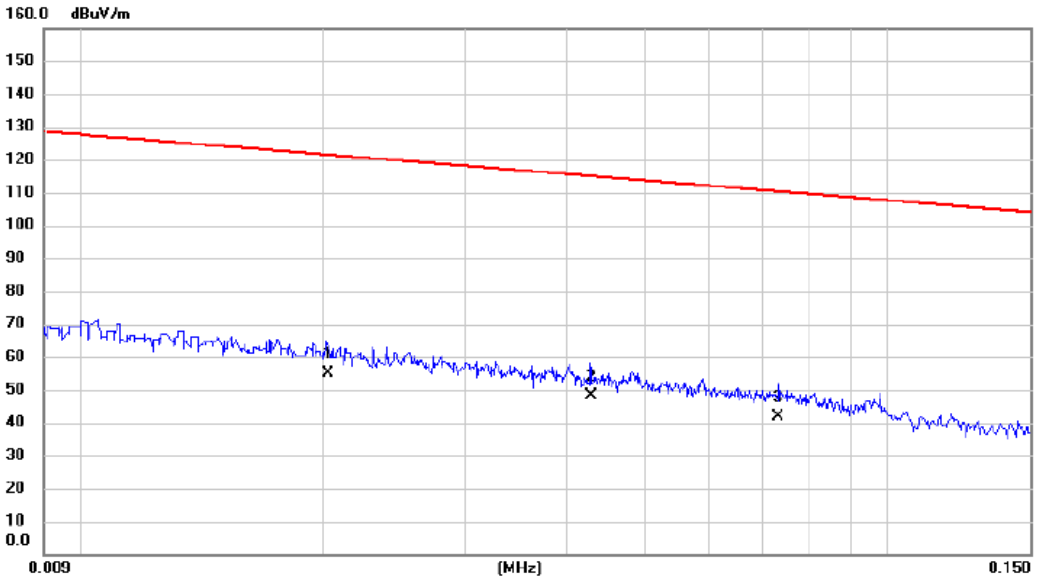
Ant 0°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.4686	32.90	16.97	49.87	94.19	-44.32	AVG	
2	*	2.1783	34.10	17.01	51.11	69.54	-18.43	QP	
3		11.3170	25.50	14.45	39.95	69.54	-29.59	QP	

Test Mode:	TX Mode

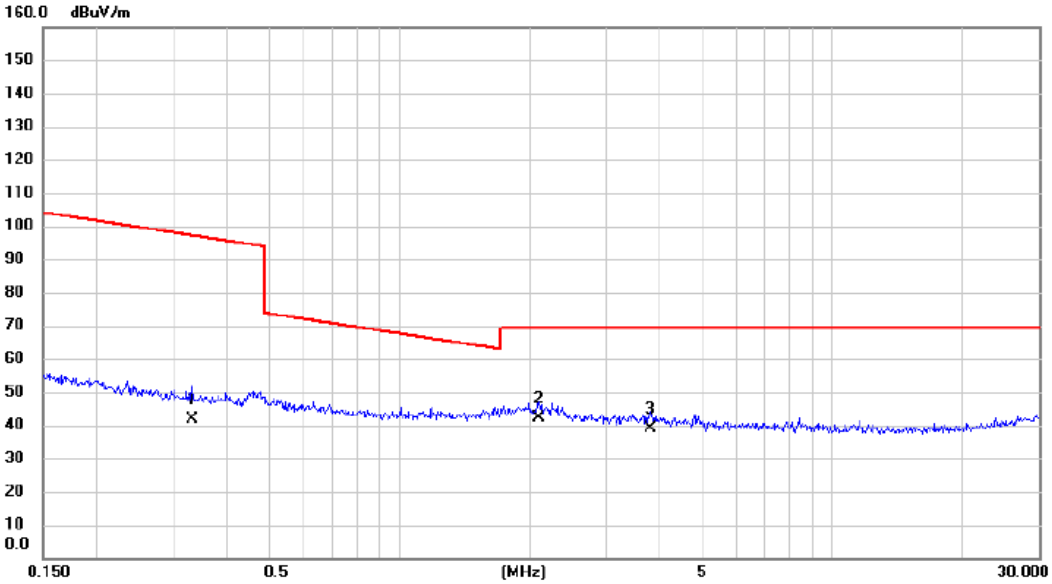
Ant 90°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.0203	34.80	20.02	54.82	121.45	-66.63	AVG	
2		0.0430	28.50	19.65	48.15	114.94	-66.79	AVG	
3		0.0732	22.70	19.07	41.77	110.31	-68.54	AVG	

Test Mode:	TX Mode

Ant 90°

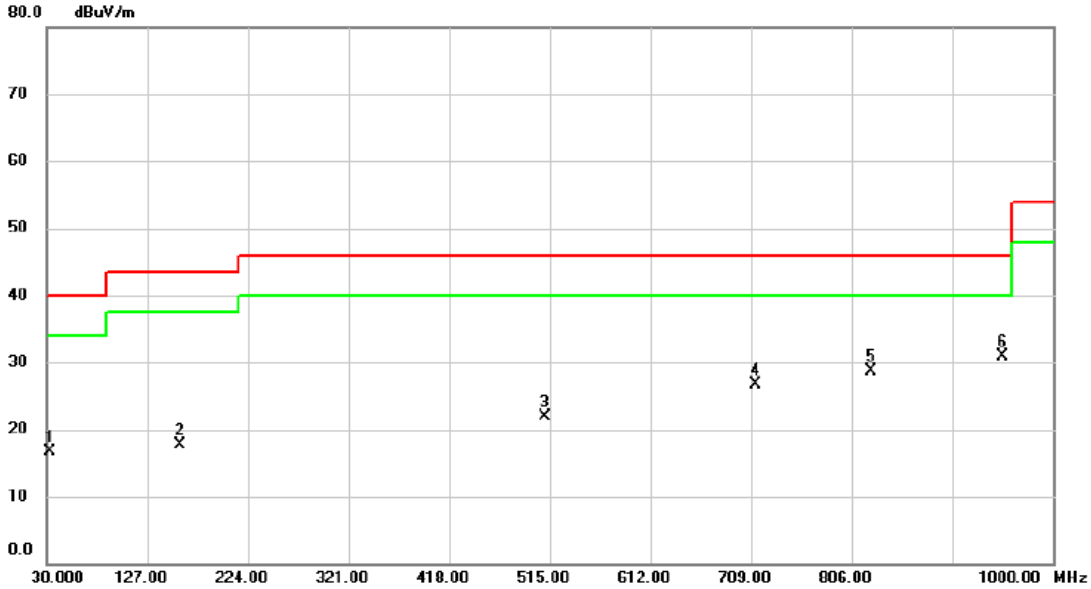


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.3321	24.90	17.03	41.93	97.18	-55.25	AVG	
2	*	2.0990	25.10	17.06	42.16	69.54	-27.38	QP	
3		3.7994	23.20	15.90	39.10	69.54	-30.44	QP	

APPENDIX B -RADIATED EMISSION (30MHZ TO 1000MHZ)

Test Mode:	TX Mode

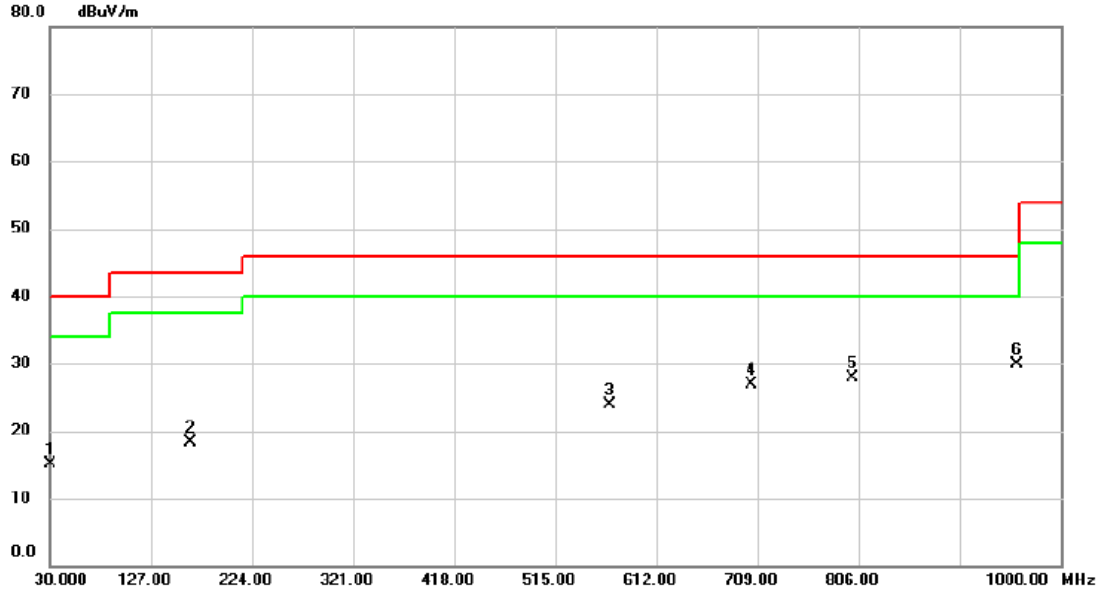
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		32.910	31.57	-14.94	16.63	40.00	-23.37	peak	
2		158.525	28.48	-10.73	17.75	43.50	-25.75	peak	
3		510.150	29.89	-7.91	21.98	46.00	-24.02	peak	
4		712.880	29.77	-3.08	26.69	46.00	-19.31	peak	
5		824.915	30.08	-1.43	28.65	46.00	-17.35	peak	
6	*	951.985	29.47	1.36	30.83	46.00	-15.17	peak	

Test Mode:	TX Mode

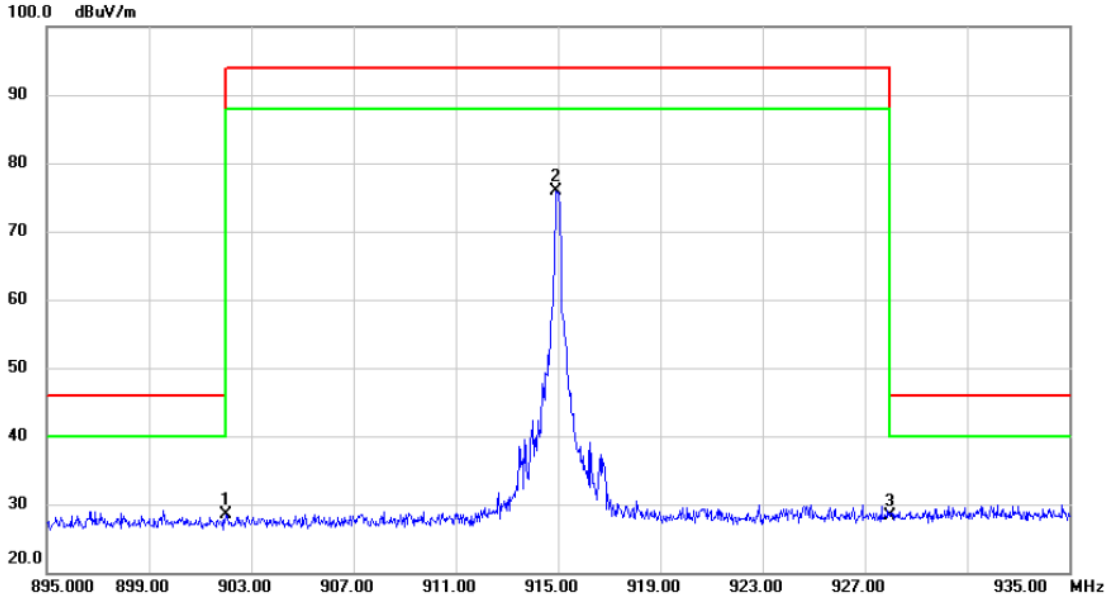
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		30.000	30.13	-14.97	15.16	40.00	-24.84	peak	
2		164.830	29.16	-10.90	18.26	43.50	-25.24	peak	
3		567.865	29.69	-5.76	23.93	46.00	-22.07	peak	
4		703.665	29.72	-2.84	26.88	46.00	-19.12	peak	
5		800.180	29.00	-1.04	27.96	46.00	-18.04	peak	
6	*	957.805	28.64	1.22	29.86	46.00	-16.14	peak	

Test Mode	TX Mode_915 MHz

Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	902.000	29.03	-0.52	28.51	46.00	-17.49	peak	
2		914.940	75.82	0.01	75.83	94.00	-18.17	peak	
3		928.000	27.79	0.52	28.31	46.00	-17.69	peak	

Remark:

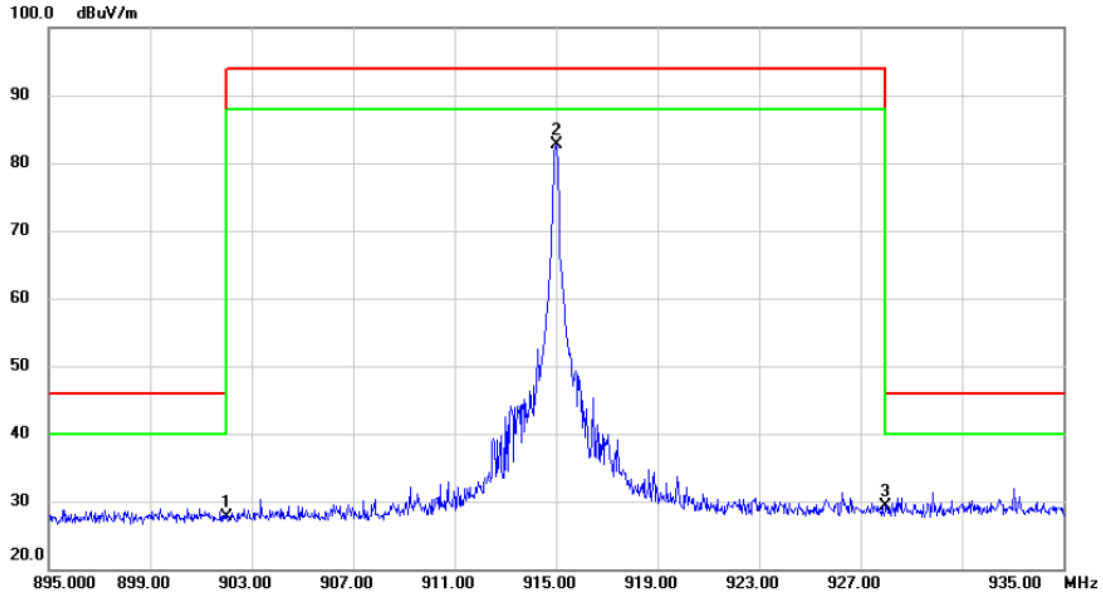
(1) The QP value of fundamental frequency is:

QP Reading = Peak value + 20log(Duty cycle) , QP=Peak-10.03

Frequency (MHz)	Peak value (dBuV/m)	QP value (dBuV/m)	QP Limit (dBuV/m)	Result
915	75.83	65.80	94	PASS

Test Mode	TX Mode_915 MHz

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		902.000	28.28	-0.52	27.76	46.00	-18.24	peak	
2	*	915.020	82.73	0.01	82.74	94.00	-11.26	peak	
3		928.000	28.69	0.52	29.21	46.00	-16.79	peak	

Remark:

(1) The QP value of fundamental frequency is:

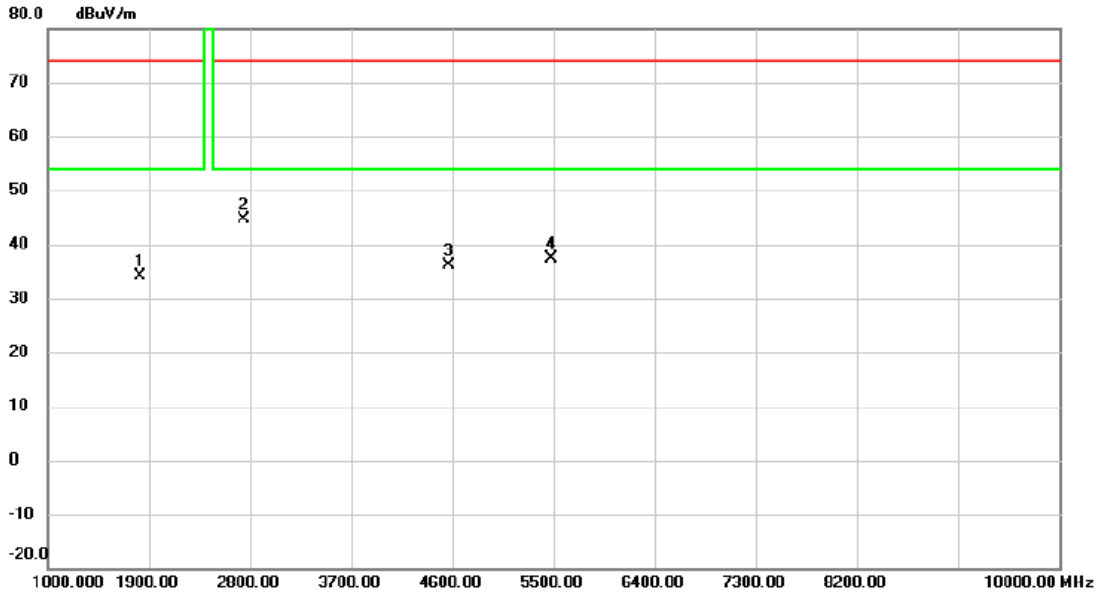
QP Reading = Peak value + 20log(Duty cycle) , QP=Peak-10.03

Frequency (MHz)	Peak value (dBuV/m)	QP value (dBuV/m)	QP Limit (dBuV/m)	Result
915	82.74	72.71	94	PASS

APPENDIX C -RADIATED EMISSION (ABOVE 1000MHZ)

Orthogonal Axis :	X
Test Mode :	TX Mode

Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		1823.500	37.92	-3.69	34.23	74.00	-39.77	peak	
2	*	2741.500	45.93	-1.23	44.70	74.00	-29.30	peak	
3		4568.500	32.47	3.69	36.16	74.00	-37.84	peak	
4		5486.500	31.73	5.61	37.34	74.00	-36.66	peak	

Remark:

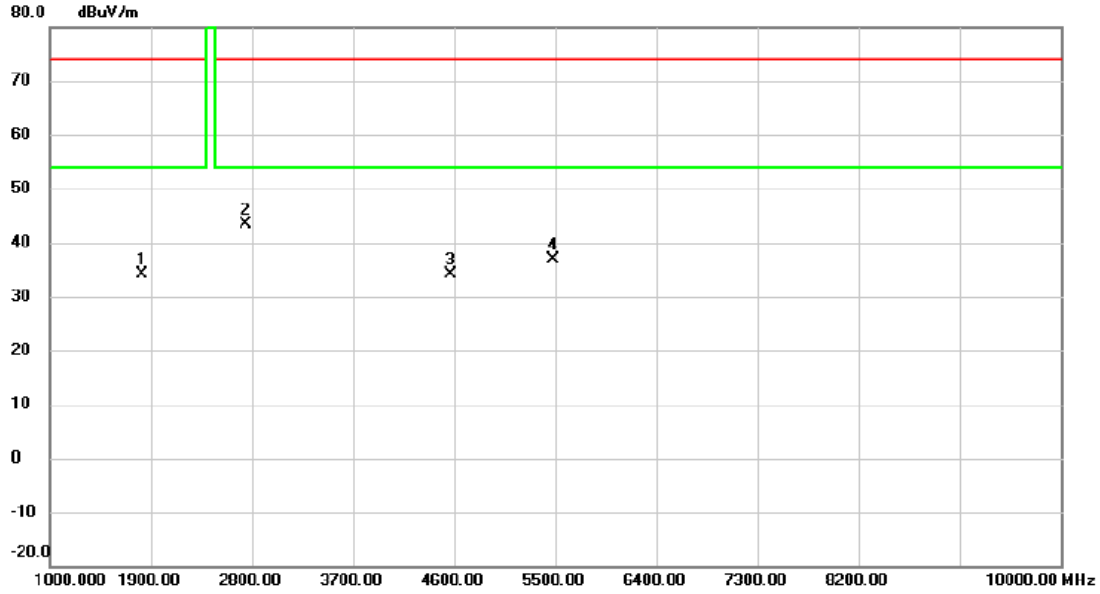
(1) The average value of fundamental frequency is:

Average Reading = Peak value + 20log(Duty cycle) , AV =Peak-10.03

Frequency (MHz)	Peak value (dBuV/m)	AV value (dBuV/m)	AV Limit (dBuV/m)	Result
2741.5	44.70	34.67	94	PASS

Orthogonal Axis :	X
Test Mode :	TX Low Channel

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		1823.500	37.77	-3.69	34.08	74.00	-39.92	peak	
2	*	2741.500	44.54	-1.23	43.31	74.00	-30.69	peak	
3		4568.500	30.54	3.69	34.23	74.00	-39.77	peak	
4		5486.500	31.22	5.61	36.83	74.00	-37.17	peak	

Remark:

(1) The average value of fundamental frequency is:

Average Reading = Peak value + 20log(Duty cycle) , AV =Peak-10.03

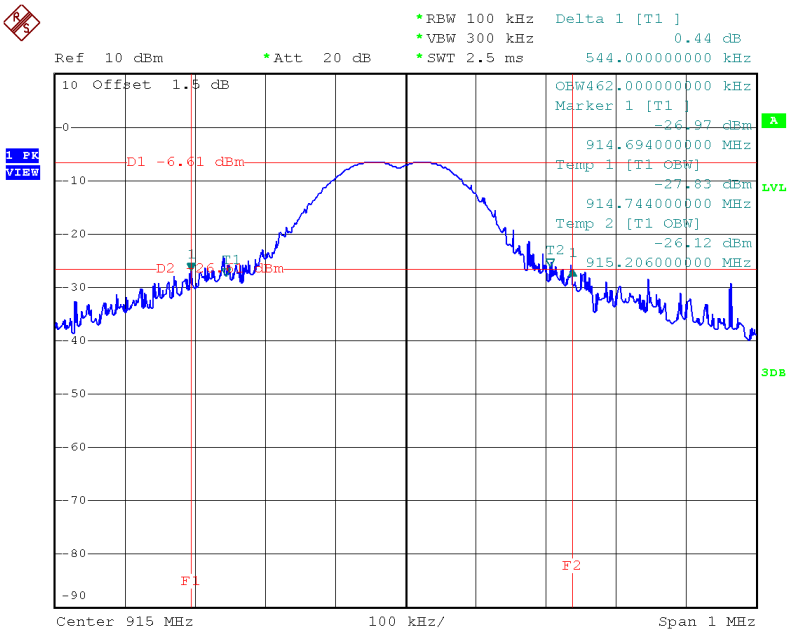
Frequency (MHz)	Peak value (dBuV/m)	AV value (dBuV/m)	AV Limit (dBuV/m)	Result
2741.5	43.31	33.28	94	PASS

APPENDIX D - BANDWIDTH

Test Mode :	TX Mode

Frequency (MHz)	20dB Bandwidth (MHz)	99% Occupied BW (MHz)
915	0.544	0.462

TX Mode



Date: 10.JAN.2019 19:58:49

End of Test Report