



FCC Radio Test Report

FCC ID: VOB-P2897

This report concerns (Check one): Dongmai Grant Delass i Change Aciass ii Change
•	: 1602C038D : SHIELD Android TV Game Console

Test Model : P2897 Series Model : N/A

Applicant: NVIDIA Corporation

Address: 2701 San Tomas Expressway, Santa Clara, CA, 95050,

USA

Date of Receipt : Oct. 31, 2017

Date of Test : Oct. 31, 2017 ~ May 14, 2018

Issued Date : Jun. 15, 2018 Tested by : BTL Inc.

Testing Engineer :

Technical Manager : Shawn Xiao

Authorized Signatory : Savid Mao
(David Mao)

BTL INC.

No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China.

TEL: +86-769-8318-3000 FAX: +86-769-8319-6000

TESTING
NVLAP LAB CODE 200788-0

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REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-2-1602C038	Original report.	Jul. 12, 2016
BTL-FCCP-2-1602C038D	Compared with the previous report (BTL-FCCP-2-1602C038), the Antenna Gain is changed from 3.88dBi to 2.70dBi, the test items of Conducted Emission, Antenna conducted Spurious Emission, 6dB Bandwidth, Peak Output Power, Power Spectral Density, Transmitter Radiated Emissions have been re-evaluated and record in this report.	Jun. 15, 2018

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1. CERTIFICATION

Equipment : SHIELD Android TV Game Console

Brand Name: NVIDIA
Test Model: P2897
Series Model: N/A

Applicant : NVIDIA Corporation Manufacturer : NVIDIA Corporation

Address : 2701 San Tomas Expressway, Santa Clara, CA, 95050, USA

Date of Test : Nov. 21, 2017 ~ May 14, 2018

Test Sample: Engineering Sample

Standard(s) : FCC Part15, Subpart C (15.247)/ 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-2-1602C038D) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of NVLAP according to the ISO-17025 quality assessment standard and technical standard(s).

Test results included in this report is only for the Bluetooth LE part.

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2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

Applied Standard(s): FCC Part15, Subpart C (15.247)			
Standard(s) Section	Test Item	Judgment	Remark
15.207	Conducted Emission	PASS	
15.247(d)	Antenna conducted Spurious Emission	PASS	
15.247(a)(2)	6dB Bandwidth	PASS	
15.247(b)(3)	Peak Output Power	PASS	
15.247(e)	Power Spectral Density	PASS	
15.203	Antenna Requirement	PASS	
15.247(d)/ 15.205/ 15.209	Transmitter Radiated Emissions	PASS	

NOTE:

(1)" N/A" denotes test is not applicable to this device.

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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 number for FCC: 854385 BTL's designation number for FCC: CN5020

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. Conducted Measurement:

Test Site	Method	Measurement Frequency Range	U, (dB)
DG-C02	CISPR	150 KHz ~ 30MHz	2.32

B. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)
		9KHz~30MHz	V	3.79
		9KHz~30MHz	Ι	3.57
		30MHz ~ 200MHz	V	3.82
	CISPR	30MHz ~ 200MHz	Ι	3.78
DG-CB03		200MHz ~ 1,000MHz	V	4.10
DG-CB03		200MHz ~ 1,000MHz	Τ	4.06
		1GHz~18GHz	V	3.12
		1GHz~18GHz	Ι	3.68
		18GHz~40GHz	V	4.15
		18GHz~40GHz	Ι	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.

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3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	SHIELD Android TV Game Console	
Brand Name	NVIDIA	
Test Model	P2897	
Series Model	N/A	
Model Difference	N/A	
Product Description	Operation Frequency	2402~2480 MHz
	Modulation Technology	GFSK(1Mbps)
	Bit Rate of Transmitter	Cr Cr(msps)
	Output Power (Max.)	7.32 dBm (1Mbps)
Power Source	DC Voltage supplied from adapter. Manufacturer: FSP GROUP INC. Model: SPA040A19W2	
Power Rating	Adapter: Input: 100-240V~,1.2A,50-60Hz Output: 19.0V2.1A EUT: Input: 19Vdc, 2.1A	

Note:

1	. For a more detailed features d	description, please	refer to the mar	nufacturer's specifi	cations or the
	user's manual.				

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2. Channel List:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	20	2442
01	2404	21	2444
02	2406	22	2446
03	2408	23	2448
04	2410	24	2450
05	2412	25	2452
06	2414	26	2454
07	2416	27	2456
08	2418	28	2458
09	2420	29	2460
10	2422	30	2462
11	2424	31	2464
12	2426	32	2466
13	2428	33	2468
14	2430	34	2470
15	2432	35	2472
16	2434	36	2474
17	2436	37	2476
18	2438	38	2478
19	2440	39	2480

3. Table for Filed Antenna:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	NVIDIA	N/A	Monopole	IPEX	2.70
	Corporation	IN/A	Antenna	IFEA	2.70

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3.2 DESCRIPTION OF TEST MODES

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

Pretest Mode	Description
Mode 1	TX Mode NOTE (1)

The EUT system operated these modes were found to be the worst case during the pre-scanning test as following:

For Conducted Test		
Final Test Mode Description		
Mode 1 TX Mode		

For Radiated Test		
Final Test Mode Description		
Mode 1	TX Mode NOTE (1)	

Note:

(1) The measurements are performed at the high, middle, low available channels.

3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

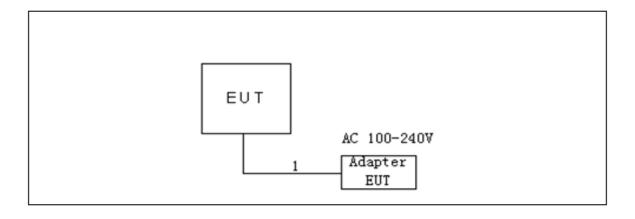
During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of BT LE

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3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



3.5 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.	FCC ID	Series No.
-	-	-	-	-	-

Item	Shielded Type	Ferrite Core	Length	Note
1	NO	NO	1.8m	AC Cable

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4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 POWER LINE CONDUCTED EMISSION LIMITS (Frequency Range 150KHz-30MHz)

Fraguency of Emission (MHz)	Conducted Limit (dBµV)		
Frequency of Emission (MHz)	Quasi-peak	Average	
0.15 -0.5	66 to 56*	56 to 46*	
0.50 -5.0	56	46	
5.0 -30.0	60	50	

Note:

(1) The limit of " * " decreases with the logarithm of the frequency

(2) The test result calculated as following: Measurement Value = Reading Level + Correct Factor Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor(if use)

Margin Level = Measurement Value - Limit Value

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

4.1.2 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 equipment 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.

4.1.3 DEVIATION FROM TEST STANDARD

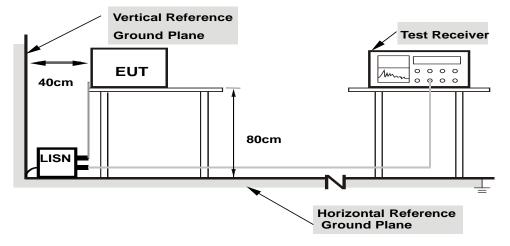
No deviation

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4.1.4 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

4.1.5 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.

4.1.6 EUT TEST CONDITIONS

Temperature: 24°C Relative Humidity: 60% Test Voltage: AC 120V/60Hz

4.1.7 TEST RESULTS

Please refer to the Appendix A.

Remark:

- (1) All readings are QP Mode value unless otherwise stated AVG in column of Note. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform. In this case, a " * " marked in AVG Mode column of Interference Voltage Measured.
- (2) Measuring frequency range from 150KHz to 30MHz.
- (3) "N/A" denotes test is not applicable to this device.

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4.2 RADIATED EMISSION MEASUREMENT

4.2.1 RADIATED EMISSION LIMITS

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.

LIMITS OF RADIATED EMISSION MEASUREMENT (9KHz-1000MHz)

Frequency	Field Strength	Measurement Distance
(MHz)	(microvolts/meter)	(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

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

Frequency (MHz)	(dBuV/m) (at 3 meters)		
Frequency (Miriz)	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).
- (4) The test result calculated as following: Measurement Value = Reading Level + Correct Factor Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use) Margin Level = Measurement Value - Limit Value





Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RBW / VBW	RBW 1MHz VBW 3MHz peak detector for Pk value
(Emission in restricted band)	RMS detector for AV value

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

4.2.2 TEST PROCEDURE

- 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 0.8m 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.

4.2.3 DEVIATION FROM TEST STANDARD

No deviation

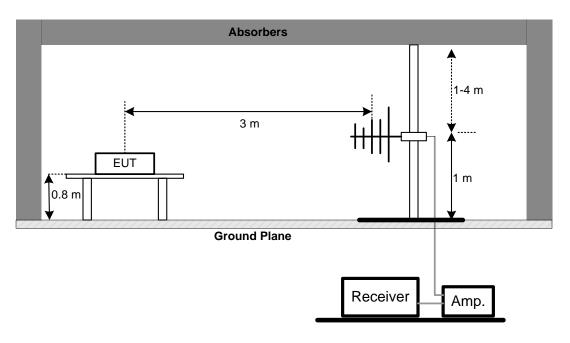
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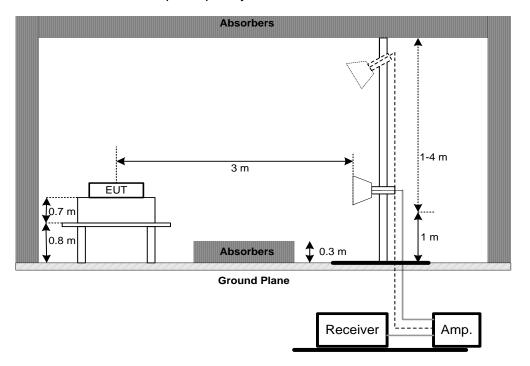


4.2.4 TEST SETUP

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



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

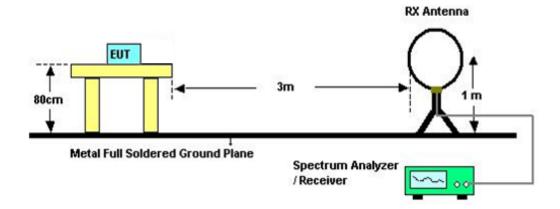


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(C) For radiated emissions below 30MHz



4.2.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

4.2.6 EUT TEST CONDITIONS

Temperature: 22°C Relative Humidity: 56% Test Voltage: AC 120V/60Hz

4.2.7TEST RESULTS (9KHZ TO 30MHZ)

Please refer to the Appendix B

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.

4.2.8TEST RESULTS (30MHZ TO 1000MHZ)

Please refer to the Appendix C.

4.2.9TEST RESULTS (ABOVE 1000MHZ)

Please refer to the Appendix D.

Remark:

(1) No limit: This is fundamental signal, the judgment is not applicable. For fundamental signal judgment was referred to Peak output test.

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5. BANDWIDTH TEST

5.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	>= 500KHz (6dB bandwidth)	2400-2483.5	PASS

5.1.1 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= 100KHz, VBW=300KHz, Sweep time = 2.5 ms.

5.1.2 DEVIATION FROM STANDARD

No deviation.

5.1.3 TEST SETUP

EUT	SPECTRUM
	ANALYZER

5.1.4 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.

5.1.5 EUT TEST CONDITIONS

Temperature: 24°C Relative Humidity: 60% Test Voltage: AC 120V/60Hz

5.1.6 TEST RESULTS

Please refer to the Appendix E.

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6. MAXIMUM OUTPUT POWER TEST

6.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Maximum Output Power	1 watt or 30dBm	2400-2483.5	PASS

6.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the power meter and antenna output port as show in the block diagram below,
- b. The maximum peak conducted output power was performed in accordance with method 9.1.2 of FCC KDB 558074 D01 DTS Meas Guidance.

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP

EUT	Power Meter
	1 5 West Wicker

6.1.4 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.

6.1.5 EUT TEST CONDITIONS

Temperature: 24°C Relative Humidity: 60% Test Voltage: AC 120V/60Hz

6.1.6 TEST RESULTS

Please refer to the Appendix F.

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7. ANTENNA CONDUCTED SPURIOUS EMISSION

7.1 APPLIED PROCEDURES / LIMIT

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced 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 that the transmitter demonstrates compliance with the peak conducted power limits.

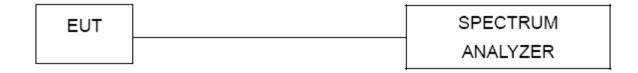
7.1.1 TEST PROCEDURE

- 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= 100KHz, VBW=300KHz, Sweep time = 10 ms.
- c. Offset=antenna gain+cable loss

7.1.2 DEVIATION FROM STANDARD

No deviation.

7.1.3 TEST SETUP



7.1.4 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.

7.1.5 EUT OPERATION CONDITIONS

Temperature: 24°C Relative Humidity: 60% Test Voltage: AC 120V/60Hz

7.1.6 TEST RESULTS

Please refer to the Appendix G.

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8. POWER SPECTRAL DENSITY TEST

8.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(e)	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS

8.1.1 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=10 KHz, Sweep time = auto.

8.1.2 DEVIATION FROM STANDARD

No deviation.

8.1.3 TEST SETUP

EUT	SPECTRUM
	ANALYZER

8.1.4 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.

8.1.5 EUT TEST CONDITIONS

Temperature: 24°C Relative Humidity: 60% Test Voltage: AC 120V/60Hz

8.1.6 TEST RESULTS

Please refer to the Appendix H.

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8.1.7. MEASUREMENT INSTRUMENTS LIST

	Conducted Emission Measurement				
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	EMI Test Receiver	R&S	ESCI	100382	Mar. 11, 2019
2	LISN	EMCO	3816/2	52765	Mar. 11, 2019
3	50Ω Terminator	SHX	TF2-3G-A	8122901	Mar. 11, 2019
4	TWO-LINE V-NETWORK	R&S	ENV216	101447	Mar. 11, 2019
5	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
6	Cable	N/A	RG223	12m	Oct. 19, 2018

	Radiated Emission Measurement - Below 1GHz				
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	Schwarbeck	VULB9160	9160-3232	Mar. 11, 2019
2	Amplifier	HP	8447D	2944A09673	Oct. 19, 2018
3	Receiver	Agilent	N9038A	MY52130039	Aug. 20, 2018
4	Cable	emci	LMR-400(30MHz-1 GHz)(8m+5m)	N/A	Jun. 26, 2018
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
8	Antenna	EM	EM-6876-1	230	Feb. 07, 2019

	Radiated Emission Measurement - Above 1GHz				
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. 08, 2018
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. 20, 2018
6	Controller	СТ	SC100	N/A	N/A
7	Controller	MF	MF-7802	MF780208416	N/A
8	Cable	emci	EMC104-SM-SM-1 2000(12m)	N/A	Jun. 26, 2018
9	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

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		6dB Bandwid	th Measureme	ent	
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 20, 2018

	Peak Output Power Measurement				
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Power Meter	ANRITSU	ML2495A	1128009	Mar. 11, 2019
2	Pulse Power Sensor	ANRITSU	MA 2411B	1027500	Mar. 11, 2019

	Antenna Conducted Spurious Emission Measurement				
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 20, 2018

Power Spectral Density Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 20, 2018

Remark: "N/A" denotes no model name, serial no. or calibration specified.

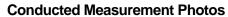
All calibration period of equipment list is one year.

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9. EUT TEST PHOTO







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Radiated Measurement Photos

9KHz to 30MHz





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Radiated Measurement Photos

30MHz to 1000MHz





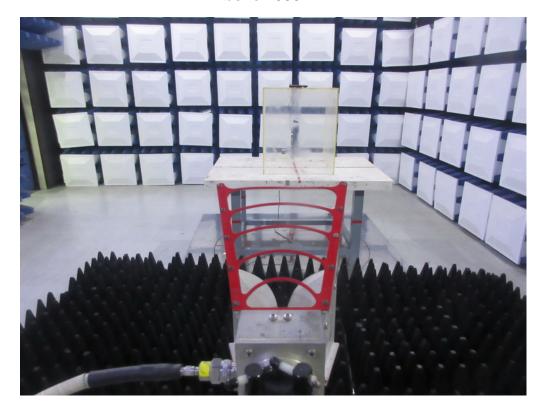
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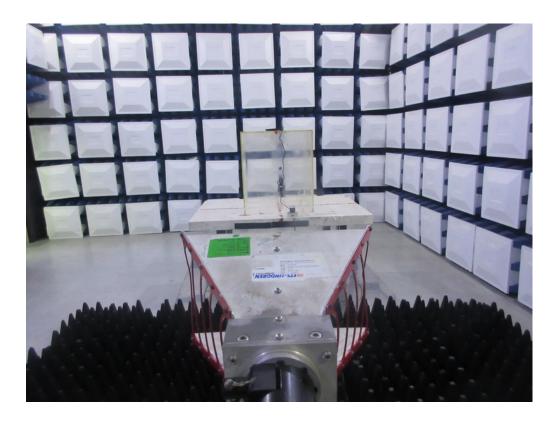




Radiated Measurement Photos

Above 1000MHz





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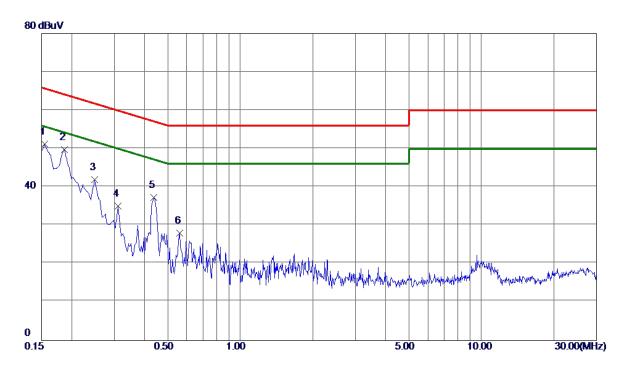
APPENDIX A - CONDUCTED EMISSION

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Line



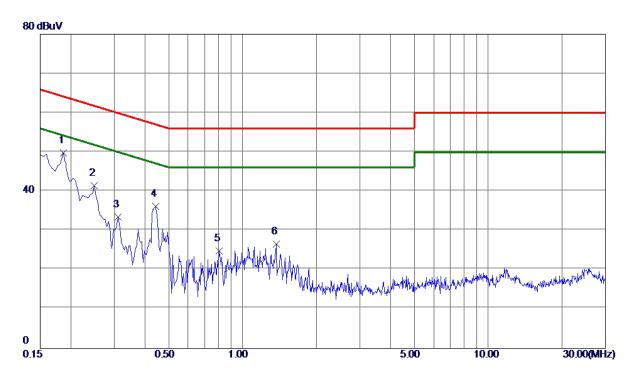
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0. 1545	41.48	9. 75	51. 23	65.75	-14.52	Peak	
2 *	0.1860	40.09	9. 73	49.82	64.21	-14.39	Peak	
3	0. 2490	32. 26	9. 72	41.98	61.79	-19.81	Peak	
4	0.3120	25. 39	9. 72	35. 11	59.92	-24.81	Peak	
5	0.4380	27. 53	9. 75	37. 28	57. 10	-19.82	Peak	
6	0. 5595	18. 18	9. 76	27.94	56. 00	-28.06	Peak	

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Neutral



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1 *	0.1860	40. 14	9.65	49. 79	64.21	-14.42	Peak	
2	0.2490	31.84	9. 63	41.47	61.79	-20. 32	Peak	
3	0.3120	23.81	9.64	33. 45	59. 92	-26. 47	Peak	
4	0.4425	26. 51	9. 65	36. 16	57.01	-20.85	Peak	
5	0.8025	15. 08	9. 66	24.74	56.00	-31. 26	Peak	
6	1. 3695	16. 93	9. 69	26. 62	56.00	-29. 38	Peak	

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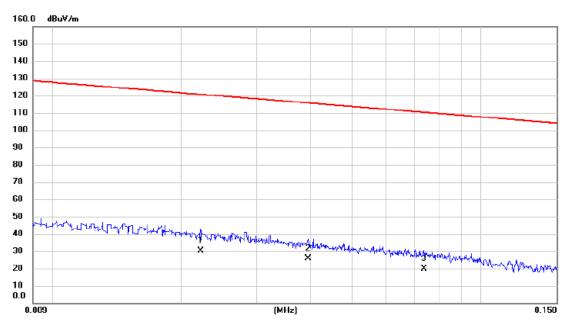
_	APPENDIX B - RADIATED EMISSION (9KHZ TO 30MHZ)

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Ant 0°



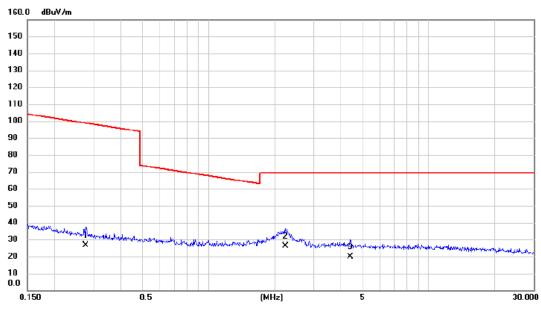
No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.0222	30.10	0.02	30.12	120.68	-90.56	AVG	
2 *	0.0395	25.60	0.02	25.62	115.67	-90.05	AVG	
3	0.0736	19.60	0.03	19.63	110.27	-90.64	AVG	

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Ant 0°



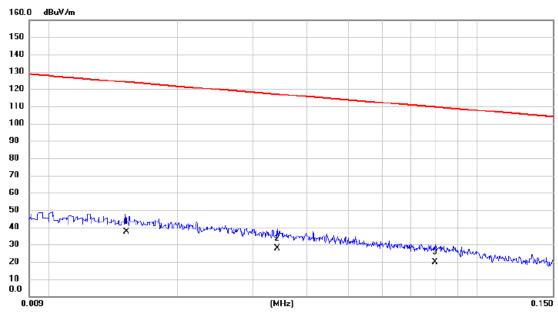
No. Mk.	Freq.	Reading Level		Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.2773	26.50	0.06	26.56	98.75	-72.19	AVG	
2 *	2.2367	26.10	0.11	26.21	69.54	-43.33	QP	
3	4.4071	19.60	0.16	19.76	69.54	-49.78	QP	

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Ant 90°



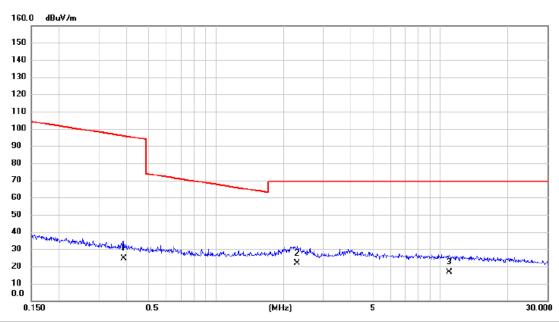
No. Mk.	Freq.	Reading Level		Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	0.0152	37.50	0.02	37.52	123.97	-86.45	AVG	
2	0.0342	27.90	0.02	27.92	116.92	-89.00	AVG	
3	0.0796	19.60	0.03	19.63	109.59	-89.96	AVG	

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Ant 90°



No. Mk.	Freq.			Measure- ment		Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.3871	24.50	0.06	24.56	95.85	-71.29	AVG	
2 *	2.2967	21.50	0.12	21.62	69.54	-47.92	QP	
3	10.9630	16.40	0.26	16.66	69.54	-52.88	QP	

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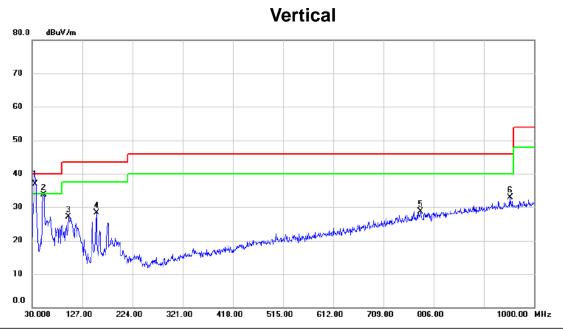


APPENDIX C - RADIATED EMISSION (30MHZ TO 1000MHZ)

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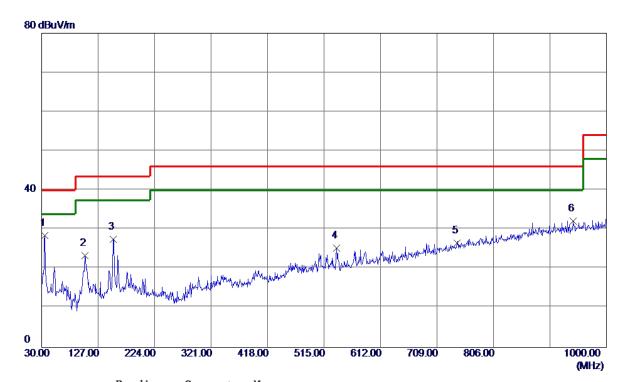
No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	35.820	51.45	-14.51	36.94	40.00	-3.06	QP	
2	52.310	47.48	-13.79	33.69	40.00	-6.31	peak	
3	99.840	44.70	-17.52	27.18	43.50	-16.32	peak	
4	154.160	41.54	-13.28	28.26	43.50	-15.24	peak	
5	780.780	30.46	-1.77	28.69	46.00	-17.31	peak	
6	953.440	30.84	2.06	32.90	46.00	-13.10	peak	

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Horizontal

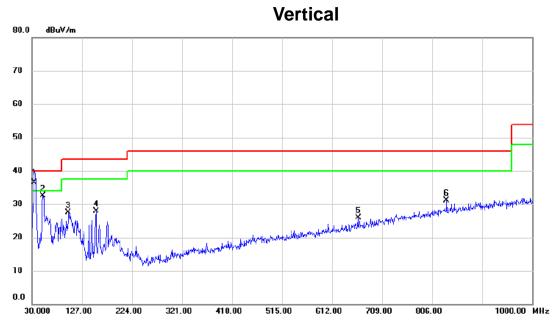


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	35.8200	42.94	-14.51	28.43	40.00	-11.57	Peak	
2	104.6900	40. 30	-16.87	23. 43	43.50	-20.07	Peak	
3	153. 1900	40.86	-13.34	27. 52	43.50	-15.98	Peak	
4	536. 3400	33. 23	-7. 99	25. 24	46.00	-20.76	Peak	
5	742.9500	29. 16	-2.66	26. 50	46.00	-19.50	Peak	
6	942.7700	30. 32	1.86	32. 18	46.00	-13.82	Peak	

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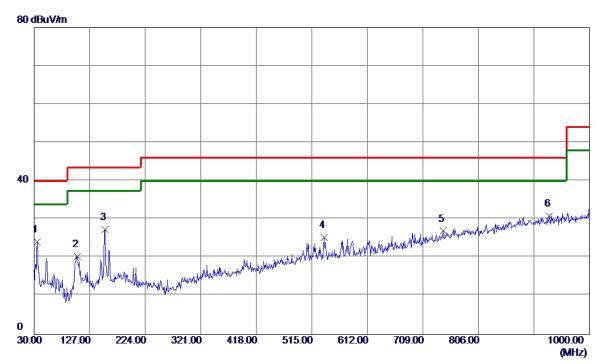
No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	34.850	51.20	-14.61	36.59	40.00	-3.41	QP	
2	51.340	46.26	-13.70	32.56	40.00	-7.44	peak	
3	100.810	44.82	-17.38	27.44	43.50	-16.06	peak	
4	154.160	41.13	-13.28	27.85	43.50	-15.65	peak	
5	662.440	30.96	-5.10	25.86	46.00	-20.14	peak	
6	834.130	31.57	-0.44	31.13	46.00	-14.87	peak	

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Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	35.8200	38. 68	-14.51	24. 17	40.00	-15.83	Peak	
2	105.6600	37. 11	-16.75	20. 36	43.50	-23. 14	Peak	
3	154. 1600	40.65	-13. 28	27. 37	43.50	-16. 13	Peak	
4	536. 3400	33. 23	-7. 99	25. 24	46.00	-20.76	Peak	
5	744.8900	29. 56	-2.60	26. 96	46.00	-19.04	Peak	
6 *	930. 1600	29. 27	1. 61	30. 88	46.00	-15. 12	Peak	

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Vertical 80.0 dBuV/m 70 60 50 40 30 20 10 0.0 30.000 127.00 224.00 321.00 418.00 515.00 806.00 1000.00 MHz 612.00 709.00

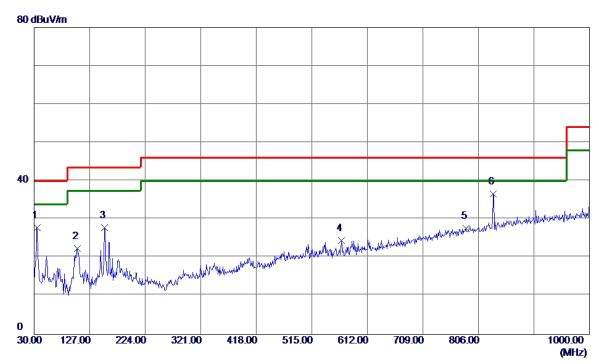
No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	35.820	51.20	-14.51	36.69	40.00	-3.31	QP	
2	52.310	46.99	-13.79	33.20	40.00	-6.80	peak	
3	87.230	44.09	-18.51	25.58	40.00	-14.42	peak	
4	100.810	44.82	-17.38	27.44	43.50	-16.06	peak	
5	154.160	41.13	-13.28	27.85	43.50	-15.65	peak	
6	834.130	31.57	-0.44	31.13	46.00	-14.87	peak	

Report No.: BTL-FCCP-2-1602C038D





Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	34.8500	42.41	-14.62	27. 79	40.00	-12. 21	Peak	
2	105.6600	39. 22	-16. 75	22.47	43.50	-21.03	Peak	
3	153. 1900	41. 22	-13. 34	27. 88	43.50	-15.62	Peak	
4	566. 4099	31.84	-7. 29	24. 55	46.00	-21.45	Peak	
5	784.6599	29. 42	-1.69	27.73	46.00	-18. 27	Peak	
6 *	832. 1900	37. 14	-0. 48	36. 66	46.00	-9. 34	Peak	

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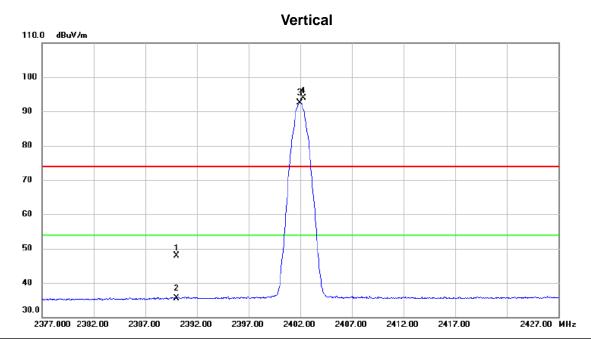


APPENDIX D - RADIATED EMISSION (ABOVE 1000MHZ)

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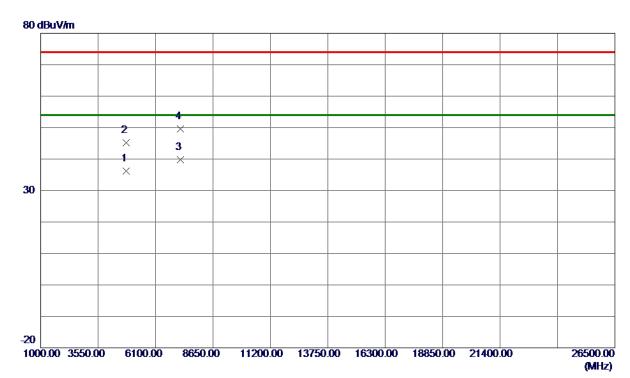
No). M	lk. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	38.39	9.54	47.93	74.00	-26.07	peak	
2)	2390.000	26.05	9.54	35.59	54.00	-18.41	AVG	
3	*	2401.950	82.87	9.60	92.47	54.00	38.47	AVG	No Limit
	X	2402.300	84.33	9.60	93.93	74.00	19.93	peak	No Limit

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Vertical

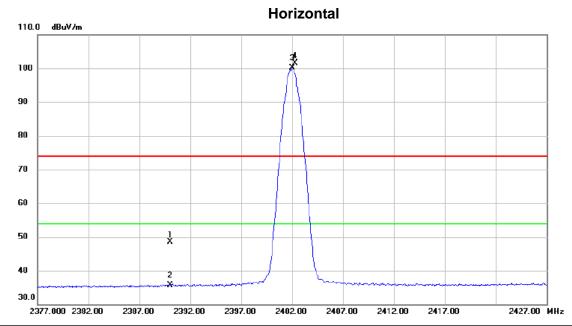


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4803.7200	29.61	6. 59	36. 20	54.00	-17.80	AVG	
2	4804. 3350	38. 65	6. 59	45. 24	74.00	-28.76	Peak	
3 *	7205. 4300	26.71	13. 13	39.84	54.00	-14. 16	AVG	
4	7206. 5300	36. 48	13. 13	49. 61	74.00	-24.39	Peak	

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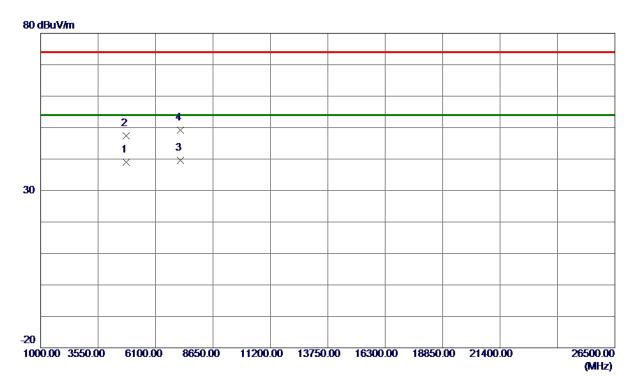
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	38.91	9.54	48.45	74.00	-25.55	peak	
2		2390.000	26.11	9.54	35.65	54.00	-18.35	AVG	
3	*	2402.000	90.45	9.60	100.05	54.00	46.05	AVG	No Limit
4	X	2402.300	91.87	9.60	101.47	74.00	27.47	peak	No Limit

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Horizontal

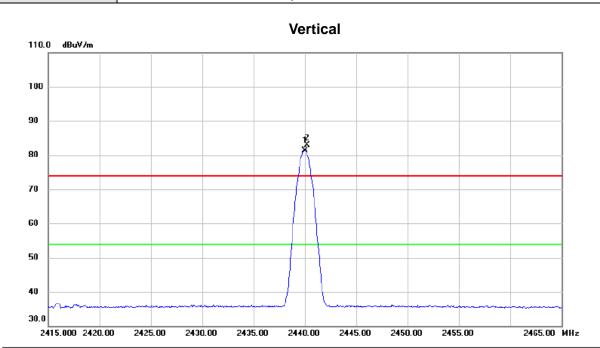


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4803.7900	32. 33	6. 59	38. 92	54.00	-15.08	AVG	
2	4804.4400	40.85	6. 59	47.44	74.00	-26. 56	Peak	
3 *	7205. 3200	26. 45	13. 13	39. 58	54.00	-14.42	AVG	
4	7206. 8100	36. 13	13. 14	49. 27	74.00	-24.73	Peak	

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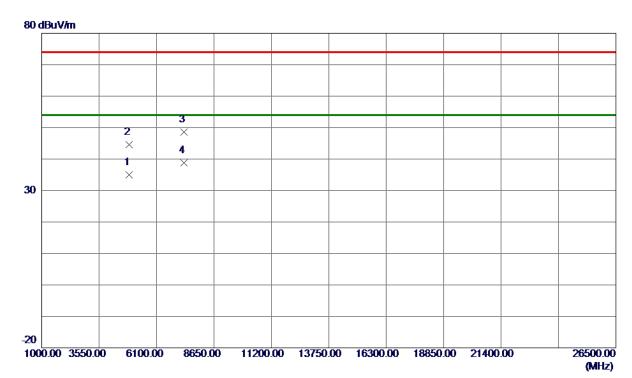
	No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
Ī			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
Ī	1	*	2440.000	71.63	9.71	81.34	54.00	27.34	AVG	No Limit
_	2	X	2440.250	73.14	9.71	82.85	74.00	8.85	peak	No Limit

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Vertical

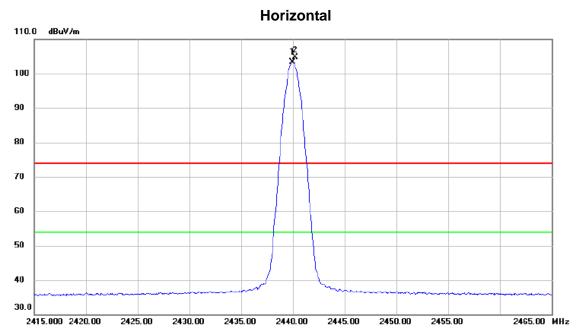


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4880. 1200	28. 12	6. 86	34. 98	54.00	-19.02	AVG	
2	4880. 1349	37.65	6.86	44.51	74.00	-29.49	Peak	
3	7320. 1540	35. 38	13. 22	48.60	74.00	-25.40	Peak	
4 *	7320. 4160	25. 62	13. 22	38. 84	54.00	-15. 16	AVG	

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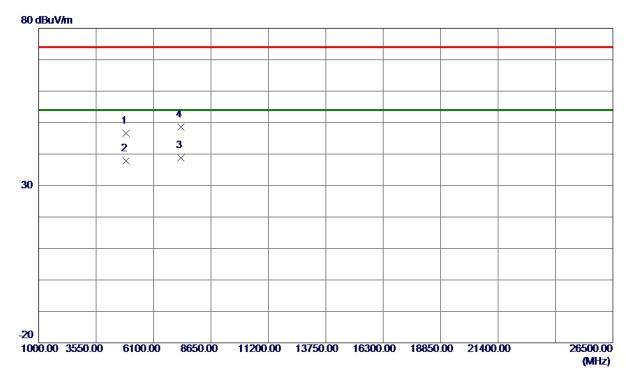
N	0.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1	*	2439.950	93.50	9.71	103.21	54.00	49.21	AVG	No Limit
	2	Χ	2440.250	94.92	9.71	104.63	74.00	30.63	peak	No Limit

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Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4880. 1669	39. 68	6.86	46. 54	74.00	-27.46	Peak	
2	4880.4620	31.02	6.86	37.88	54.00	-16. 12	AVG	
3 *	7320. 1500	25. 64	13. 22	38. 86	54.00	-15. 14	AVG	
4	7320. 4120	35. 41	13. 22	48. 63	74.00	-25. 37	Peak	

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Vertical 110.0 dBuV/m 100 90 70 60 50 X 3 40 30.0 2455.000 2460.00 2465.00 2470.00 2475.00 2480.00 2485.00 2490.00 2495.00 2505.00 MHz

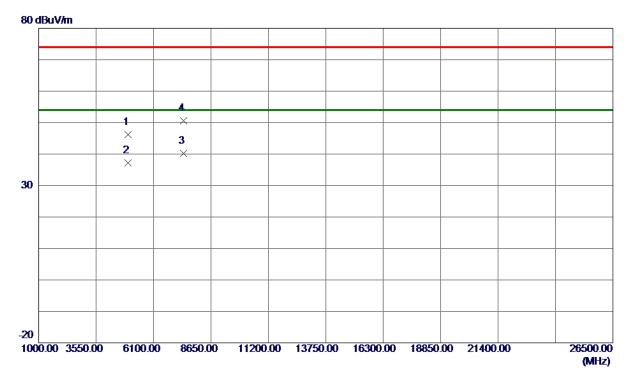
No.	М	k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	24	479.800	73.64	9.85	83.49	74.00	9.49	peak	No Limit
2	*	24	480.000	72.22	9.85	82.07	54.00	28.07	AVG	No Limit
3		24	483.500	37.63	9.86	47.49	74.00	-26.51	peak	
4		24	483.500	25.94	9.86	35.80	54.00	-18.20	AVG	

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Vertical

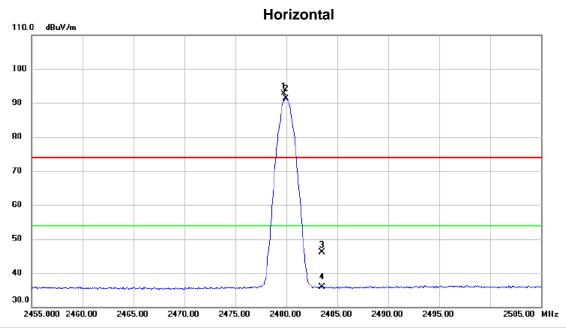


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4960. 3510	39. 02	7. 15	46. 17	74.00	-27.83	Peak	
2	4960. 7810	30. 10	7. 15	37. 25	54.00	-16.75	AVG	
3 *	7440. 2150	26. 98	13. 31	40. 29	54.00	-13.71	AVG	
4	7440. 6410	37. 31	13. 31	50.62	74.00	-23. 38	Peak	

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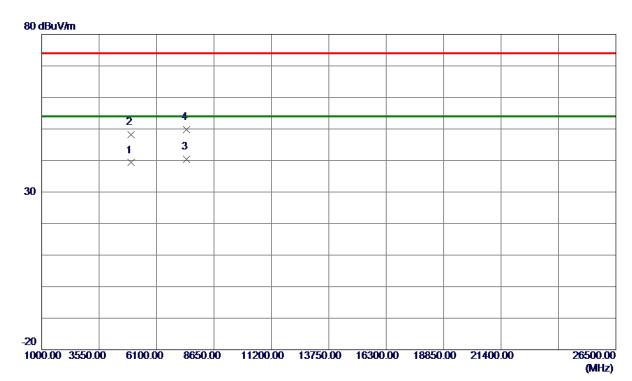
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	2479.750	82.95	9.85	92.80	74.00	18.80	peak	No Limit
2	*	2479.950	81.45	9.85	91.30	54.00	37.30	AVG	No Limit
3		2483.500	36.26	9.86	46.12	74.00	-27.88	peak	
4		2483.500	26.02	9.86	35.88	54.00	-18.12	AVG	

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Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4960. 2510	32. 15	7. 15	39. 30	54.00	-14.70	AVG	
2	4960. 3510	41.02	7. 15	48. 17	74.00	-25.83	Peak	
3 *	7440. 2150	27. 12	13. 31	40.43	54.00	-13. 57	AVG	
4	7440. 3610	36. 54	13. 31	49.85	74.00	-24. 15	Peak	

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APPENDIX E - BANDWIDTH

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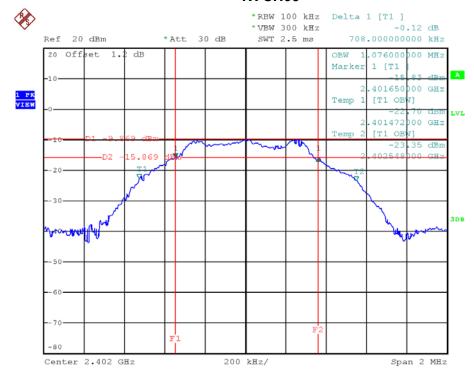




Test Mode: TX Mode

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2402	0.708	1.076	500	Pass
2440	0.716	1.084	500	Pass
2480	0.706	1.084	500	Pass

TX CH00

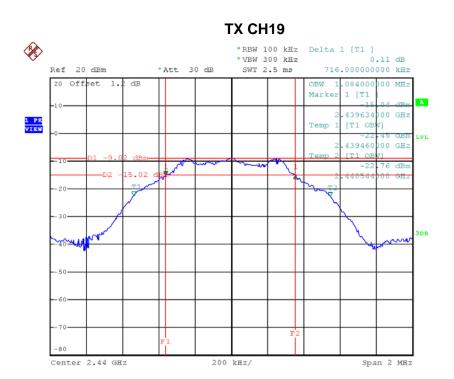


Date: 4.APR.2018 21:31:56

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Date: 4.APR.2018 21:34:00

200 kHz/

Span 2 MHz

TX CH39

Date: 4.APR.2018 21:36:02

Center 2.48 GHz





APPENDIX F - MAXIMUM OUTPUT POWER TEST

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Test Mode: CH00, CH19, CH39 - 1Mbps

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Test Result
2402	6.36	0.0043	30.00	1.00	Pass
2440	7.32	0.0054	30.00	1.00	Pass
2480	6.73	0.0047	30.00	1.00	Pass

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APPENDIX G - ANTENNA CONDUCTED SPURIOUS EMISSION

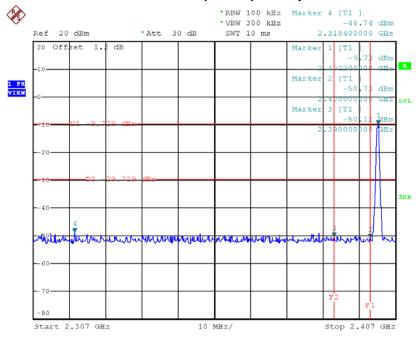
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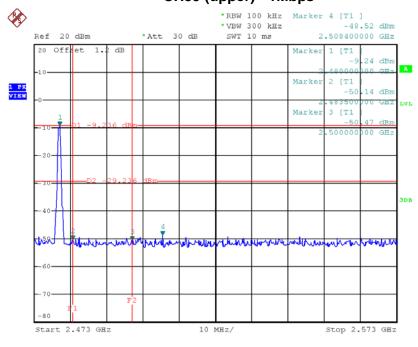
Test Mode: CH00, CH19, CH39 - 1Mbps

CH00 (Lower) - 1Mbps



Date: 4.APR.2018 21:32:20

CH39 (upper) - 1Mbps

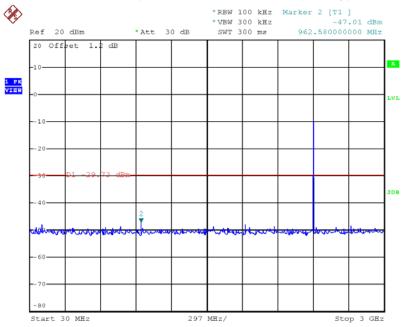


Date: 4.APR.2018 21:36:09



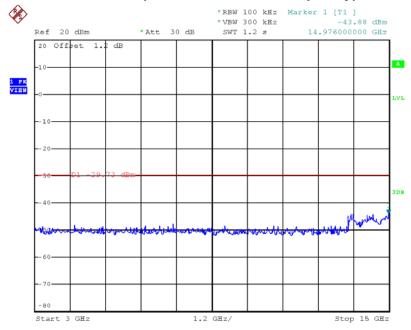






Date: 4.APR.2018 21:32:33

CH00 (10 Harmonic of the frequency) 2

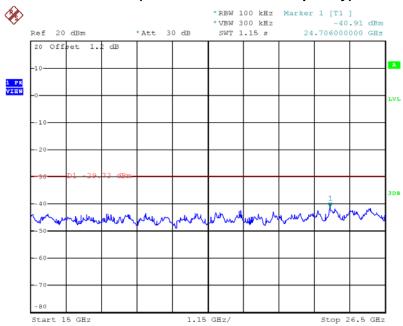


Date: 4.APR.2018 21:32:40



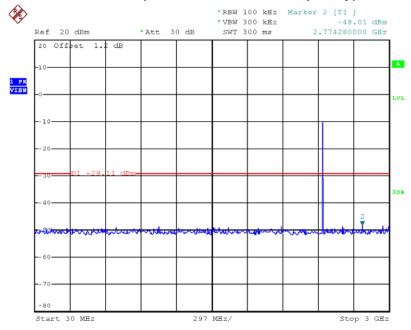






Date: 4.APR.2018 21:32:47

CH19 (10 Harmonic of the frequency) 1

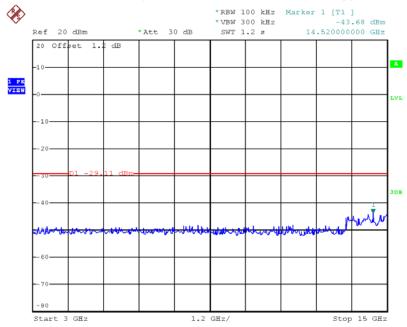


Date: 4.APR.2018 21:34:20



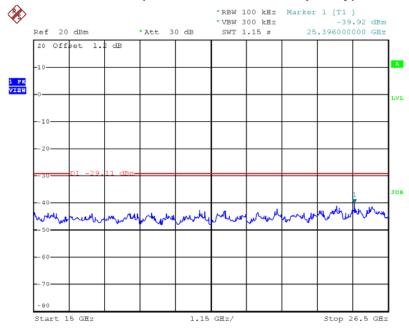






Date: 4.APR.2018 21:34:27

CH19 (10 Harmonic of the frequency) 3

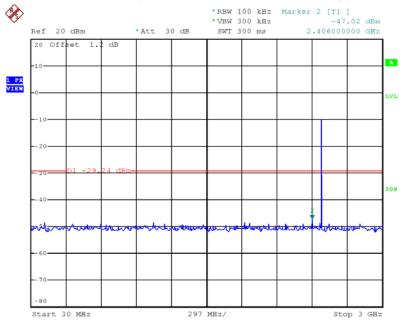


Date: 4.APR.2018 21:34:34



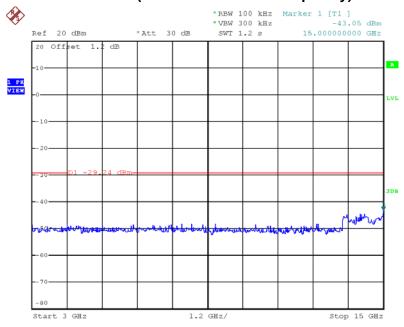






Date: 4.APR.2018 21:36:22

CH39 (10 Harmonic of the frequency) 2

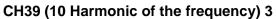


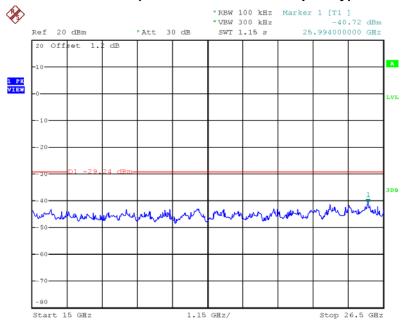
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Date: 4.APR.2018 21:36:36





APPENDIX H - POWER SPECTRAL DENSITY TEST						

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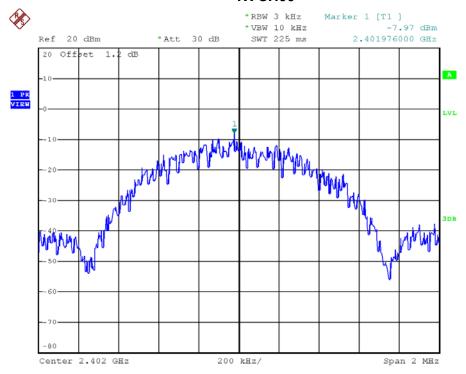




Test Mode: CH00, CH19, CH39 - 1Mbps

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Test Result
2402	-7.97	0.0002	8.00	Pass
2440	-7.10	0.0002	8.00	Pass
2480	-7.69	0.0002	8.00	Pass

TX CH00

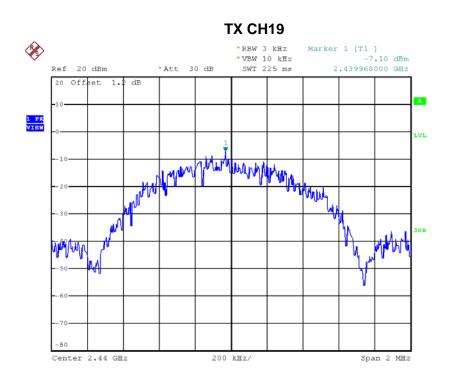


Date: 11.MAY.2018 20:14:23

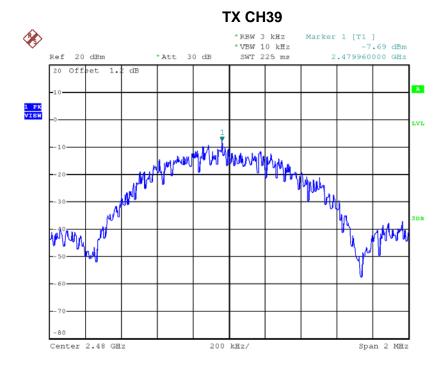
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Date: 11.MAY.2018 20:18:55



Date: 11.MAY.2018 20:21:46