

# **FCC Radio Test Report**

FCC ID: 2ABVN-M98

This report concerns: Original Grant

Project No. 2008C013

Equipment MSI Bluetooth Mouse

**Brand Name** MSI **Test Model** : M98 Series Model : N/A

Applicant : Verico International Co., Ltd

Address : 12F-6., No.872, Zhongzheng Rd., Zhonghe Dist., New Taipei City 235,

Taiwan (R.O.C.)

Manufacturer : Verico International Co., Ltd

Address : 12F-6., No.872, Zhongzheng Rd., Zhonghe Dist., New Taipei City 235,

Taiwan (R.O.C.)

Factory : Dongguan You Hong Plastic Electronics Co.,Ltd.

**Address** : Zhen Hua Road, Tie Lu Keng Village, Qi Shi Town, Dong Guan City,

Guang Dong Province, China

Date of Receipt : Aug. 18, 2020

Date of Test : Aug. 18, 2020 ~ Sep. 03, 2020

Issued Date : Sep. 15, 2020

Report Version : R00

: Engineering Sample No.: DG2020081716 Test Sample

: FCC Part15, Subpart C Standard(s)

ANSI C63.10-2013

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

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### **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.

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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. Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.



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# **REPORT ISSUED HISTORY**

Report Version	Description	Issued Date
R00	Original Issue.	Sep. 15, 2020



# 1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

FCC CFR Title 47, Part 15, Subpart C				
Standard(s) Section	Test Item	Test Result	Judgment	Remark
15.247(d)		APPENDIX A		
15.205(a)	Radiated Emissions	APPENDIX B	PASS	
15.209(a)		APPENDIX C		

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



### 1.1 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

### 1.2 MEASUREMENT UNCERTAINTY

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))
The BTL measurement uncertainty as below table:

### A. Radiated emissions Measurement:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)
		9KHz ~ 30MHz	V	3.79
		9KHz ~ 30MHz	Н	3.57
		30MHz ~ 200MHz	V	4.56
	CISPR	30MHz ~ 200MHz	Н	3.90
DG-CB03		200MHz ~ 1,000MHz	V	4.64
DG-CB03		200MHz ~ 1,000MHz	Н	4.38
		1GHz ~ 6GHz	-	4.46
		6GHz ~ 18GHz	-	4.40
		18GHz ~ 26.5 GHz	-	3.95
		26.5GHz ~ 40 GHz	_	3.95

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

### 1.3 TEST ENVIRONMENT CONDITIONS

Test Item	Temperature	Humidity	Test Voltage	Tested By
Radiated Emissions-9K-30MHz	25°C	60%	DC 3V	Kwok Guo
Radiated Emissions-30 MHz to 1GHz	26°C	52%	DC 3V	Kwok Guo
Radiated Emissions-Above 1000 MHz	24°C	60%	DC 3V	Kwok Guo



### 2. GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF EUT

Equipment	MSI Bluetooth Mouse
Brand Name	MSI
Test Model	M98
Series Model	N/A
Model Difference(s)	N/A
Software Version	V02
Hardware Version	V1.1
Power Source	Supplied from 2*AAA battery.
Power Rating	DC 3V6mA
Operation Frequency	2402 MHz ~ 2480 MHz
Modulation Technology	GFSK
Bit Rate of Transmitter	2 Mbps
Field Strength	83.05dBuV/m(Peak) 82.41dBuV/m(AVG)
Max. Output Power	-12.25 dBm(Peak) (0.0001 W) -12.89 dBm(AVG) (0.0001 W)

### Note:

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



# 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	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	PCB	N/A	-1.66



### 2.2 DESCRIPTION OF TEST MODES

The test system was pre-tested based on the consideration of all possible combinations of EUT operation mode.

Pretest Mode	Description	
Mode 1	TX Mode NOTE (1)	
Mode 2	TX Mode Channel 00	

Following mode(s) was (were) found to be the worst case(s) and selected for the final test.

Radiated emissions test - Below 1GHz		
Final Test Mode	Description	
Mode 2	TX Mode Channel 00	

Radiated emissions test - Above 1GHz		
Final Test Mode	Description	
Mode 1	TX Mode <b>NOTE</b> (1)	

### Note

- (1) The measurements are performed at the high, middle, low available channels.
- (2) For radiated emission above 1 GHz test, 1GHz~26.5GHz have been pre-tested and in this report only recorded the worst case. The remaining spurious points are all below the limit value of 20dB.
- (3) For radiated emission below 1 GHz test, the channel 00 is found to be the worst case and recorded.

### 2.3 PARAMETERS OF TEST SOFTWARE

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

Test Software	N/A				
Frequency (MHz)	2402	2440	2480		
Parameters	5	5	5		



2.4	2.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED							
	EUT							
2.	2.5 SUPPORT UNITS							
	Item	Equipment	Brand	Model No.	Series No.			
	-	-	-	-	-			
	Item	Cable Type	Shielded Type	Ferrite Core	Length			

Item	Cable Type	Shielded Type	Ferrite Core	Length
-	-	-	-	-



### 3. RADIATED EMISSION TEST

### **3.1 LIMIT**

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 (9 kHz-1000 MHz)

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
Above 960	500	3

### LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000 MHz)

Fraguency (MHz)	(dBuV/m at 3 m)		
Frequency (MHz)	Peak	Average	
Above 1000	74	54	

### Note:

- (1) The limit for radiated test was performed according to FCC Part15, Subpart C.
- (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		
RBW / VBW	RBW 1 MHz VBW 3 MHz peak detector for Pk value		
(Emission in restricted band)	RMS detector for AV value		

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



### 3.2 TEST PROCEDURE

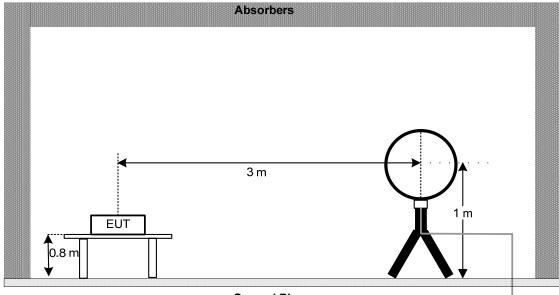
- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1 GHz)
- b. The measuring distance 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 1 GHz)
- 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 1 GHz.
- 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 1 GHz)
- 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 1 GHz)
- i. For the actual test configuration, please refer to the related Item –EUT Test Photos.

# **3.3 DEVIATION FROM TEST STANDARD**No deviation



### 3.4 TEST SETUP

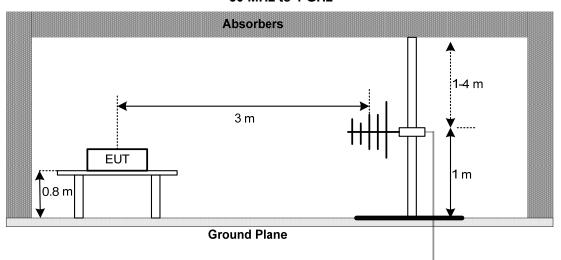
### 9 kHz-30 MHz



**Ground Plane** 



### 30 MHz to 1 GHz

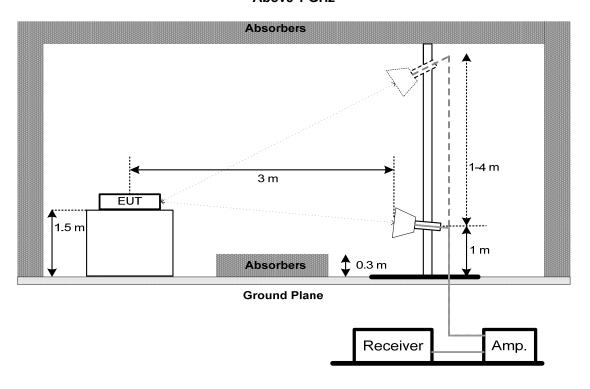


Receiver

Amp.



### **Above 1 GHz**



### 3.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

### 3.6 TEST RESULT - 9 kHz TO 30 MHz

Please refer to the APPENDIX A.

### Remark:

- (1) Distance extrapolation factor = 40 log (specific distance / test distance) (dB).
- (2) Limit line = specific limits (dBuV) + distance extrapolation factor.

### 3.7 TEST RESULT - 30 MHz TO 1000 MHz

Please refer to the APPENDIX B.

### 3.8 TEST RESULT - ABOVE 1000 MHz

Please refer to the APPENDIX C.

### Remark:

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



### 4. MEASUREMENT INSTRUMENTS LIST

	Radiated Emissions - 9 kHz to 30 MHz								
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until				
1	Antenna	EM EM-6876-1		230	Apr. 16, 2021				
2	Cable	N/A	RG 213/U	N/A	May 29, 2021				
3	EMI Test Receiver	R&S	ESCI	100895	Feb. 28, 2021				
4	Measurement	Farad	EZ-EMC	N/A	N/A				
4	Software	raiau	Ver.NB-03A1-01	IN/A	IN/A				
5	966 Chambe Room	RM	9*6*6m	N/A	Jul. 25, 2021				

	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. 09, 2021				
2*	Amplifier	HP	8447D	2944A09673	Aug. 11, 2021				
3	Receiver	Agilent	N9038A	MY52130039	Jul. 25, 2021				
4	Cable	emci	LMR-400(30MHz-1 GHz)(8m+5m)	N/A	May 22, 2021				
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	966 Chambe Room	RM	9*6*6m	N/A	Jul. 25, 2021				

	Radiated Emissions - Above 1 GHz								
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until				
1	Double Ridged Guide Antenna	ETS	3115	75789	May 12, 2021				
2	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Jul. 07, 2021				
3	Amplifier	Agilent	8449B	3008A02333	Mar. 01, 2021				
4	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 07, 2021				
5	Receiver	Agilent	N9038A	MY52130039	Jul. 25, 2021				
6	Controller	CT	SC100	N/A	N/A				
7	Controller	MF	MF-7802	MF780208416	N/A				
8	Cable	N/A	EMC104-SM-SM-6 000	N/A	May 09, 2021				
9	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A				
10	Filter	STI	STI15-9912	N/A	Jul. 25, 2021				
11	966 Chambe Room	RM	9*6*6m	N/A	Jul. 25, 2021				

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

Except \* item, all calibration period of equipment list is one year.

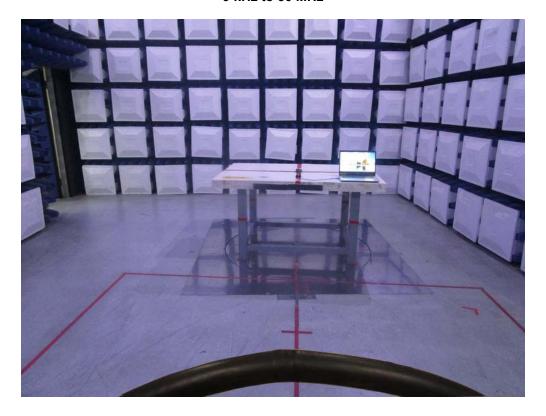
<sup>&</sup>quot;\*" calibration period of equipment list is three year.

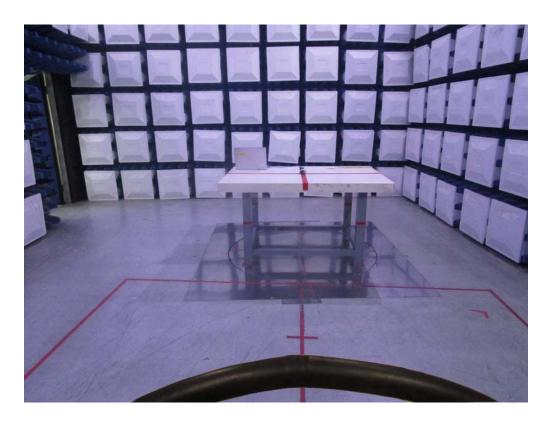


# **5. EUT TEST PHOTO**

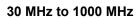
### **Radiated Emissions Test Photos**

9 kHz to 30 MHz







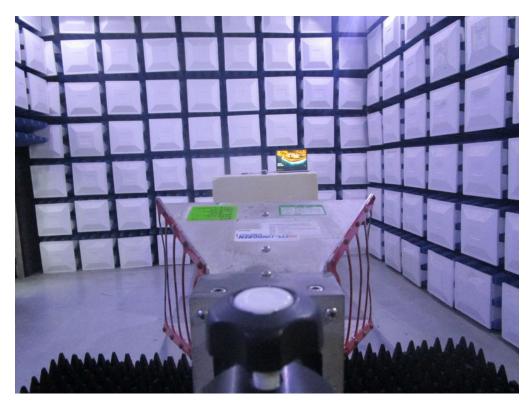










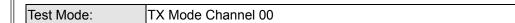


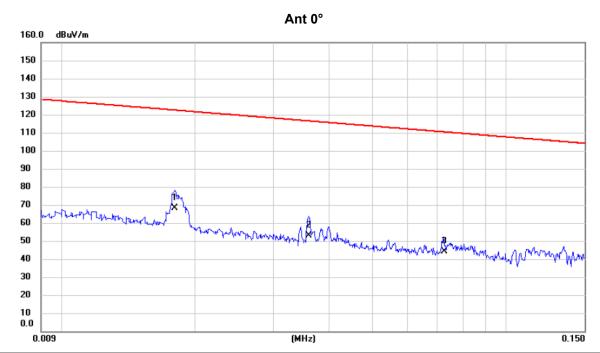




# **APPENDIX A - RADIATED EMISSION - 9 KHZ TO 30 MHZ**



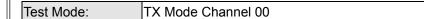


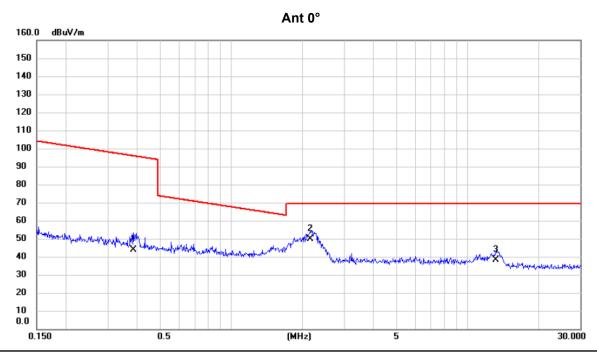


No. Mk.	Freq.	Reading Level		Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	0.0180	54.26	13.84	68.10	122.50	-54.40	AVG	
2	0.0360	40.25	12.79	53.04	116.48	-63.44	AVG	
3	0.0726	31.58	12.56	44.14	110.39	-66.25	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



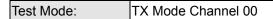


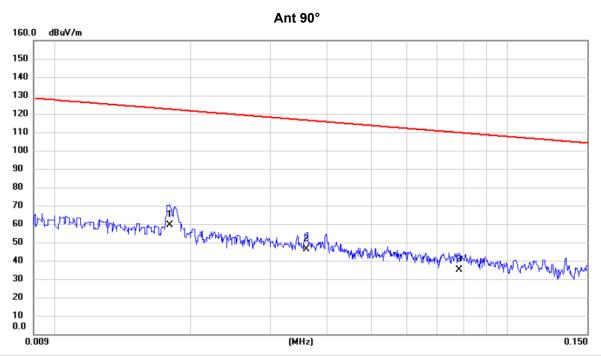


No. Mk.	Freq.		Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.3852	31.58	12.29	43.87	95.89	-52.02	AVG	
2 *	2.1552	38.58	11.23	49.81	69.54	-19.73	QP	
3	13.1966	26.55	11.56	38.11	69.54	-31.43	QP	

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



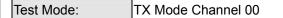


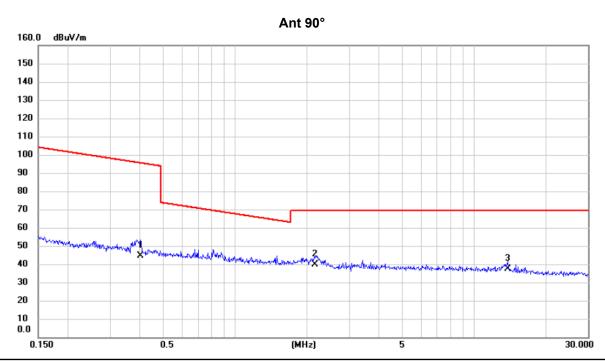


No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.0180	45.58	13.84	59.42	122.50	-63.08	AVG	
2		0.0360	33.58	12.79	46.37	116.48	-70.11	AVG	
3		0.0783	22.48	12.59	35.07	109.73	-74.66	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.







No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.4018	32.25	12.25	44.50	95.52	-51.02	AVG	
2	*	2.1552	28.45	11.23	39.68	69.54	-29.86	QP	
3		13.8411	25.86	11.58	37.44	69.54	-32.10	QP	

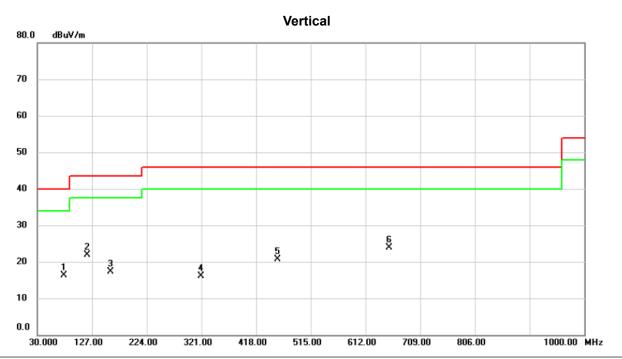
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



APPENDIX B - RADIATED EMISSION - 30 MHZ TO 1000 MHZ



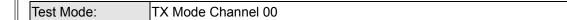


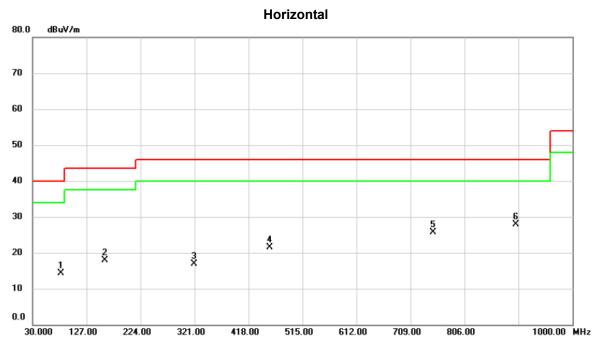


No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	77.530	33.58	-17.29	16.29	40.00	-23.71	peak	
2 *	118.270	34.85	-12.99	21.86	43.50	-21.64	peak	
3	159.980	28.07	-10.67	17.40	43.50	-26.10	peak	
4	320.030	26.86	-10.68	16.18	46.00	-29.82	peak	
5	455.830	28.33	-7.59	20.74	46.00	-25.26	peak	
6	653.710	28.13	-4.21	23.92	46.00	-22.08	peak	

- (1) Measurement Value = Reading Level + Correct Factor.
  (2) Margin Level = Measurement Value Limit Value.







No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	81.410	31.76	-17.44	14.32	40.00	-25.68	peak	
2	159.980	28.63	-10.67	17.96	43.50	-25.54	peak	
3	320.030	27.51	-10.68	16.83	46.00	-29.17	peak	
4	455.830	29.00	-7.59	21.41	46.00	-24.59	peak	
5	749.740	28.83	-3.21	25.62	46.00	-20.38	peak	
6 *	898.150	29.02	-1.18	27.84	46.00	-18.16	peak	

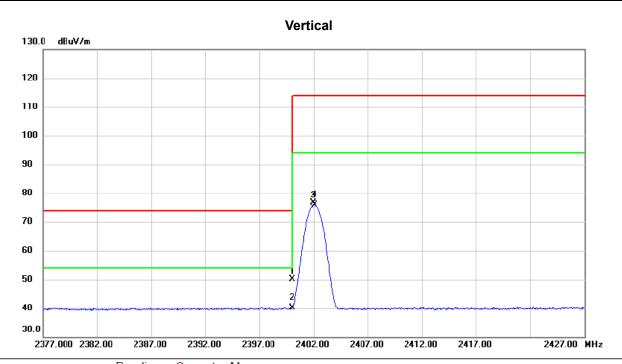
- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



APPENDIX C - RADIATED EMISSION - ABOVE 1000 MHZ



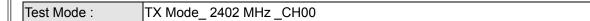


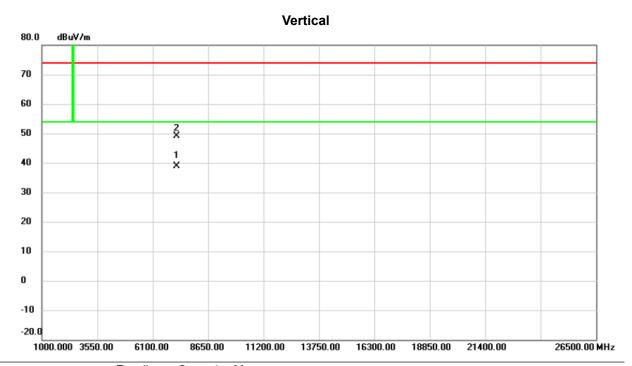


	No. M	k. Fr	eq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MI	Ηz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1	2400.0	000	39.43	10.65	50.08	74.00	-23.92	peak	
	2 *	2400.0	000	29.42	10.65	40.07	54.00	-13.93	AVG	
	3	2401.9	950	66.01	10.65	76.66	114.00	-37.34	peak	
	4	2402.	100	65.27	10.65	75.92	94.00	-18.08	AVG	
-										

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.





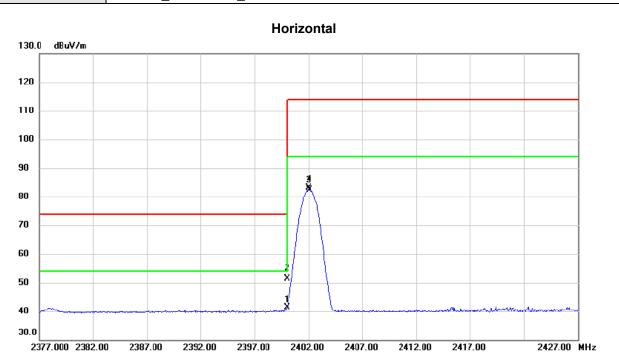


	No.	Mk.	Freq.			Measure- ment	Limit	Margin				
_			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment		_
_	1	*	7205.608	27.15	11.72	38.87	54.00	-15.13	AVG			_
_	2		7205.725	37.44	11.72	49.16	74.00	-24.84	peak			_

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.





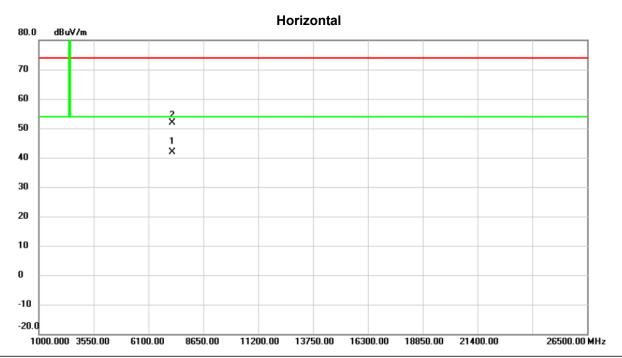


No. M	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2400.000	30.67	10.65	41.32	74.00	-32.68	peak	
2 *	2400.000	40.64	10.65	51.29	54.00	-2.71	AVG	
3	2402.000	72.40	10.65	83.05	114.00	-30.95	peak	
4	2402.100	71.76	10.65	82.41	94.00	-11.59	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.





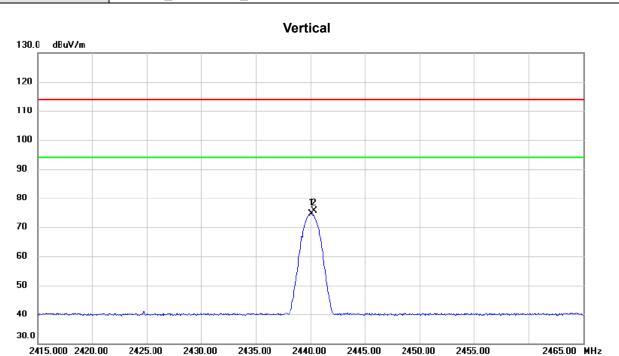


No.	Mk.	Freq.			Measure- ment		Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	7205.535	30.04	11.72	41.76	54.00	-12.24	AVG	
2	7	7206.730	40.10	11.72	51.82	74.00	-22.18	peak	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



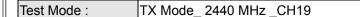




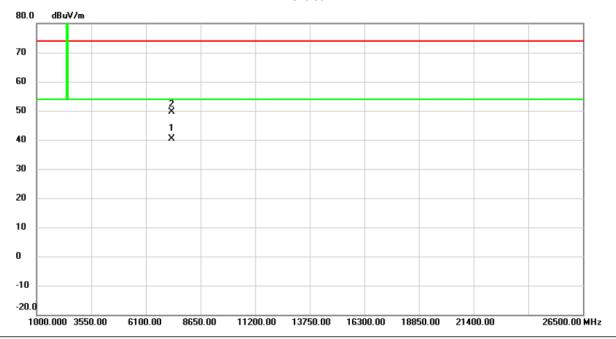
Ν	lo. Mł	k. Freq.	_	Correct Factor	Measure- ment		Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1 *	2440.075	63.96	10.77	74.73	94.00	-19.27	AVG	
	2	2440.375	64.91	10.77	75.68	114.00	-38.32	peak	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.





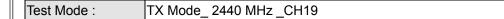
### Vertical

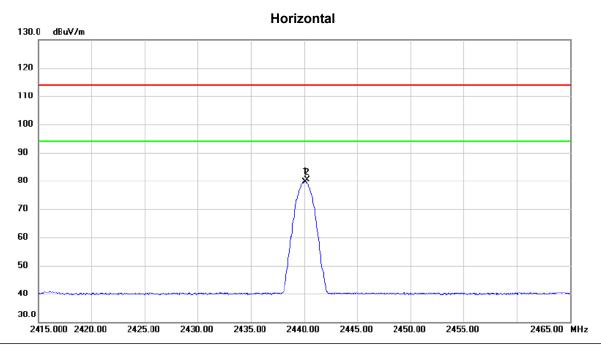


No.	Mk.	Freq.			Measure- ment		Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	7319.595	28.50	11.83	40.33	54.00	-13.67	AVG	
2		7321.210	37.80	11.83	49.63	74.00	-24.37	peak	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



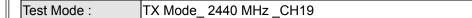


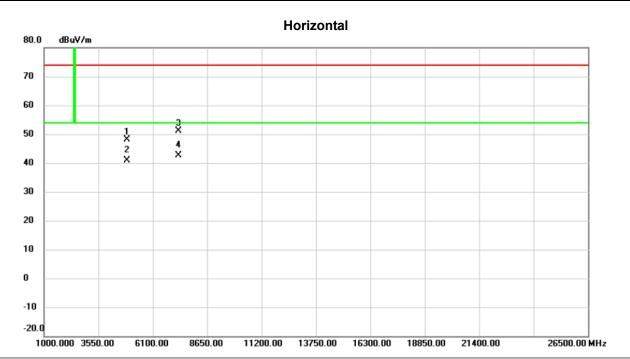


	No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Margin		
_			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1	* 2	2440.125	68.87	10.77	79.64	94.00	-14.36	AVG	
_	2	2	2440.325	69.55	10.77	80.32	114.00	-33.68	peak	

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



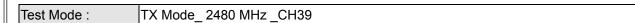


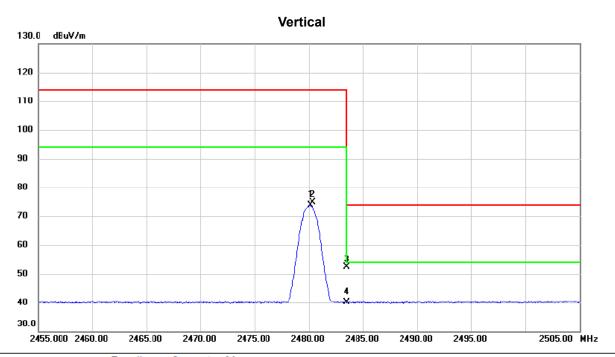


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4879.578	39.99	8.08	48.07	74.00	-25.93	peak	
2		4880.200	32.83	8.08	40.91	54.00	-13.09	AVG	
3		7319.347	39.26	11.82	51.08	74.00	-22.92	peak	
4	*	7319.757	30.88	11.83	42.71	54.00	-11.29	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.





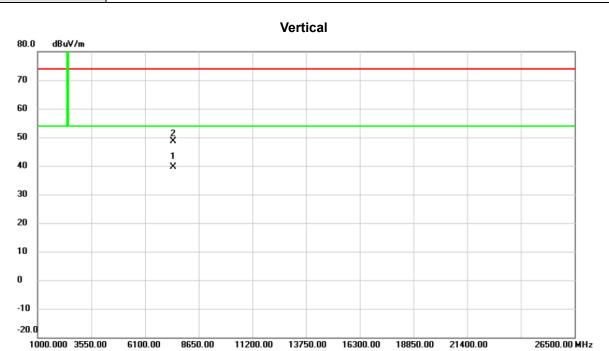


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2480.150	63.03	10.89	73.92	94.00	-20.08	AVG	
2		2480.375	63.91	10.89	74.80	114.00	-39.20	peak	
3		2483.500	41.36	10.90	52.26	74.00	-21.74	peak	
4	*	2483.500	29.18	10.90	40.08	54.00	-13.92	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.





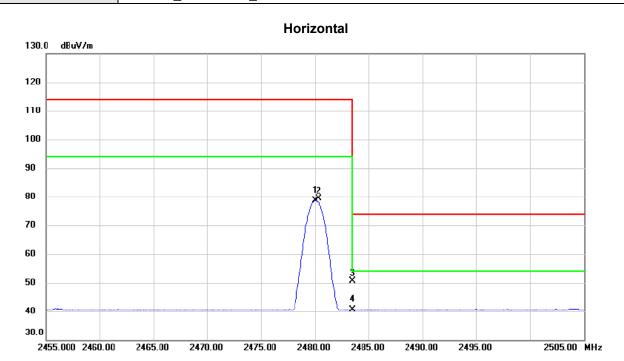


No.	Mk.	Freq.	Reading Level		Measure- ment		Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	7439.608	27.76	11.94	39.70	54.00	-14.30	AVG	
2		7440.797	36.65	11.94	48.59	74.00	-25.41	peak	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.





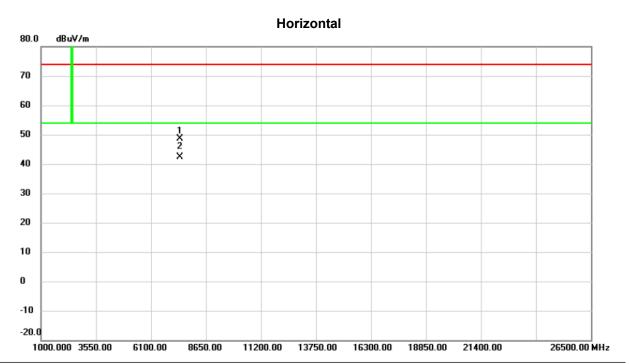


No. I	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2	480.050	67.80	10.89	78.69	94.00	-15.31	AVG	
2	2	480.350	68.47	10.89	79.36	114.00	-34.64	peak	
3	2	483.500	39.79	10.90	50.69	74.00	-23.31	peak	
4 *	2	483.500	29.62	10.90	40.52	54.00	-13.48	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.







No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		7439.403	36.80	11.94	48.74	74.00	-25.26	peak	
2	*	7439.590	30.53	11.94	42.47	54.00	-11.53	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.

### **End of Test Report**