FCC 47 CFR PART 15 SUBPART B REPORT
ISED ICES-003 TEST REPORT

For

TPMS ECU Receiver

Model: CORTIS08

Issued to:

Continental Automotive Technologies GmbH

Siemensstrasse 12, Regensburg ,93055 Germany

Issued by:

Compliance Certification Services Inc.

Wugu Laboratory

No.11, Wugong 6th Rd., Wugu Dist.,
New Taipei City, Taiwan.

Issued Date: January 17, 2024

Note: This document may be altered or revised by Compliance Certification Services Inc. personnel only and shall be noted in the revision section of the document. The client should not use it to claim product endorsement by TAF, NIST or any government agencies. The test results in the report only apply to the tested sample.

Revision History

Rev.		Issue Date		Revisions	Effect Page	Revised By
00		January 17, 2024		Initial Issue	ALL	May Lin

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1 TEST RESULT CERTIFICATION

Product:	TPMS ECU Receiver
Model:	CORTIS08
Brand:	Continental
Applicant:	**Continental Automotive Technologies GmbH** Siemensstrasse 12, Regensburg ,93055 Germany
Manufacturer:	**Continental Automotive Technologies GmbH** Siemensstrasse 12, Regensburg ,93055 Germany
Factory:	**Continental Automotive France SAS** 1 Avenue Paul Ourliac 31100 Toulouse 1 France
Tested:	December 15, 2023
Test Voltage:	DC 16V

EMISSION			
Standard	**Item**	**Result**	**Remarks**
FCC 47 CFR Part 15 Subpart B, CISPR 22: 2008, ISED ICES-003 Issue 7-2020, ANSI C63.4-2014 ANSI C63.4a 2017	Conducted (Power Port)	N/A	Not applicable, because EUT does not connect to AC Main Source direct.
	Radiated	PASS	Meet Class B limit

Note: 1. The statements of test result on the above are decided by the request of test standard only; the measurement uncertainties are not factored into this compliance determination.
2. The information of measurement uncertainty is available upon the customer's request.

Deviation from Applicable Standard
None
Statements of Conformity
Determination of compliance is based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

The above equipment has been tested by Compliance Certification Services Inc., and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Approved by:

Hex Chiang
Asst. Manager

2 EUT DESCRIPTION

Product	TPMS ECU Receiver
Model	CORTIS08
Brand	Continental
Applicant	Continental Automotive Technologies GmbH
Housing material	Plastic
Received Date	November 03, 2023
EUT Power Rating	DC 9V-16V
AC Power Cord Type	N/A
DC Power Cable Type	N/A

Note:

1.Client consigns only one sample to test (Model number: CORTIS08). Therefore, the testing Lab. just guarantees the unit, which has been tested.

I/O Port

I/O PORT TYPES	Q'TY	TESTED WITH
1) System Port	3	3

3 TEST METHODOLOGY

3.1. DECISION OF FINAL TEST MODE

1. The following test modes were scanned during the preliminary test:

Pre-Test Mode
Mode 1: EUT + Notebook PC (1920*1080) + DC 16V, Full system
Mode 2: EUT + Notebook PC (1920*1080) + DC 12V, Full system
Mode 3: EUT + Notebook PC (1920*1080) + DC 9V, Full system

2. After the preliminary scan, the following test mode was found to produce the highest emission level.

Final Test Mode		
Emission	Conducted Emission	**Mode 1**
	Radiated Emission	**Mode 1**

Then, the above highest emission mode of the configuration of the EUT and cable was chosen for all final test items.

3.2. EUT SYSTEM OPERATION

1. Setup the EUT as shown on 4.2.
2. Turn on the power to all devices.
3. The EUT will be connected through the "PCAN View Tool" program.
4. EUT transfers data to another laptop through the USB port.
5. The EUT will receive the GPS signal source and continue to operate.
6. Set test mode conditions and start testing.

Note: Test program is self-repeating throughout the test.

4 SETUP OF EQUIPMENT UNDER TEST

4.1. 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.

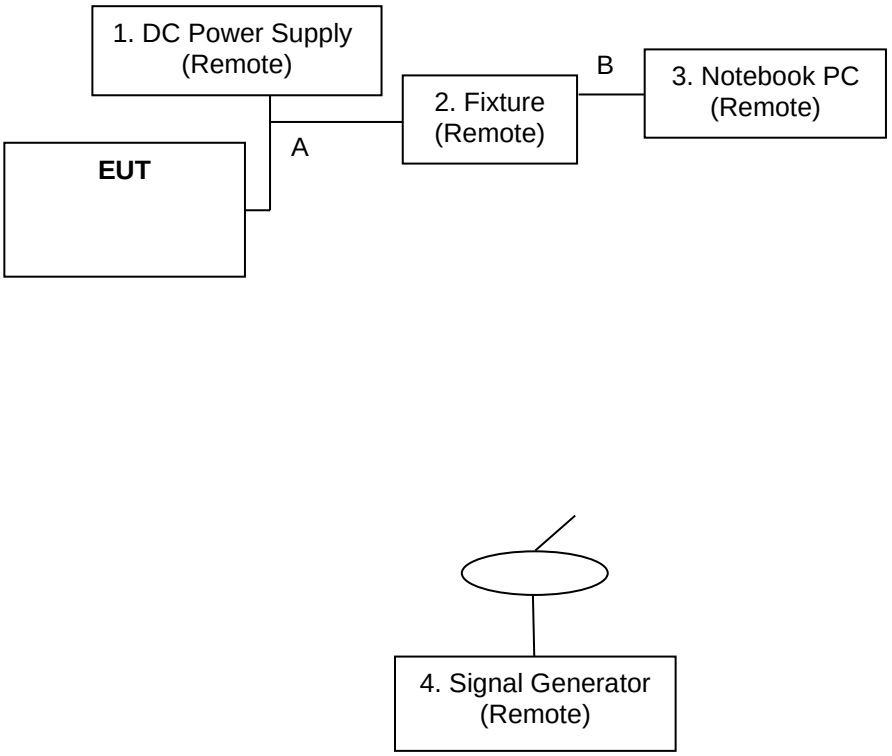
Peripherals Devices:

No.	Equipment	Trade Name	Model No.	Serial No.
1	DC Power Supply (Remote)	Chromd	6210-100	N/A
2	Fixture (Remote)	N/A	N/A	N/A
3	Notebook PC (Remote)	Lenovo	TP00103G	PF-24WF25
4	Signal Generator (Remote)	R&S	SMJ100A	101258

No.	Cable Name	Unit	Shielded	Length	With Core
(A)	System Cable	1	☐Shielded, ☒Non	1.9 m	☐With Core×____ , ☒Non
(B)	USB Cable	1	☒Shielded, ☐Non	0.65 m	☐With Core×____ , ☒Non

Note:
1) All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2) Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

4.2. CONFIGURATION OF SYSTEM UNDER TEST



5 FACILITIES AND ACCREDITATIONS

5.1. FACILITIES

All measurement facilities used to collect the measurement data are located at:

☐ No.11, Wugong 6th Rd., Wugu Dist., New Taipei City, Taiwan.

☒ No.139, Wugong Rd., Wugu Dist., New Taipei City, Taiwan.

The sites are constructed in conformance with the requirements of ANSI C63.4 and CISPR 22. All receiving equipment conforms to CISPR 16-1-1, CISPR 16-1-2, CISPR 16-1-3, CISPR 16-1-4, CISPR 16-1-5.

5.2. ACCREDITATIONS

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

Taiwan	TAF (TAF 1309)

The measuring facility of laboratories has been authorized or registered by the following approval agencies.

Canada	Industry Canada (10M Semi Anechoic Chamber: IC 2324G-1 / IC 2324G-2 / 2324J-1 / 2324J-2 to perform)
Japan	VCCI Radiated emissions: 30 MHz -1000 MHz: R-14343 / Above 1GHz: G-10945 Conducted Emission B: C-13700 / T-11839
USA	FCC (10M Semi Anechoic Chamber (FCC MRA: TW1039) to perform FCC Part 15 measurements)

Copies of granted accreditation certificates are available for downloading from our web site.

5.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Frequency	Uncertainty
Conducted Test Site No.B	0.15MHz ~ 30MHz	±3.06 dB
Radiated emissions (10M Chamber)	30MHz ~ 1GHz	±4.41 dB
	1GHz ~ 6GHz	±4.97 dB
	6GHz ~ 18GHz	±5.13 dB
	18GHz ~ 40GHz	±3.94 dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Consistent with industry standard determining compliance with the limits shall be base on the results of the compliance measurement. Consequently the measure emissions being less than the maximum allowed emission result in this be a compliant test or passing test.

The listed uncertainties of above table are the worst case values for the entire range of measurement. Please note that the uncertainty values are only provided for informational purpose and aren't used in determining the PASS/FAIL results.

6 CONDUCTED EMISSION MEASUREMENT

6.1. LIMITS OF CONDUCTED EMISSION MEASUREMENT

FCC Part 15 Subpart B/CISPR 22:

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi - peak	Average	Quasi - peak	Average
0.15 - 0.5	79	66	66 - 56	56 - 46
0.50 – 5.0	73	60	56	46
5.0 – 30.0	73	60	60	50

Note : (1) The lower limit shall apply at the transition frequencies.
(2) The limit decreases linearly with the logarithm of the frequency in the range 0.15 to 0.50 MHz.
(3) All emanation from a class A/B digital device or system, including any network of conductors and apparatus connected there to, shall not exceed the level of field strengths specified above.

ISED ICES-003:

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 - 0.5	79	66	66 - 56*	56 - 46*
0.50 – 5.0	73	60	56	46
5.0 – 30.0	73	60	60	50

Note: The more stringent limit applies at transition frequencies.
*. The limit level in dBμV decreases linearly with the logarithm of frequency.

6.2. TEST INSTRUMENTS

Conducted Test Site No.B					
Name of Equipment	**Manufacturer**	**Model**	**Serial Number**	**Calibration Date**	**Calibration Due**
N/A					

6.3. TEST PROCEDURES (please refer to measurement standard or CCS SOP PA-031)

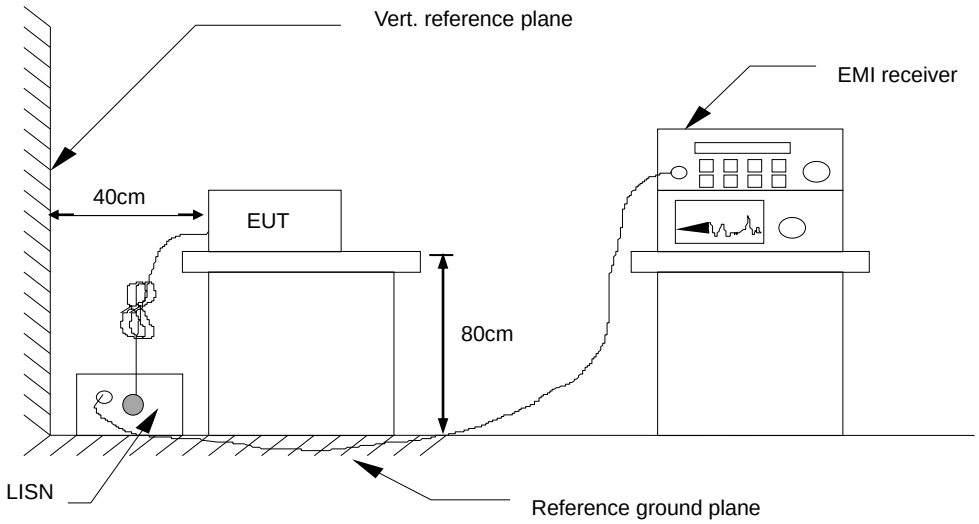
Procedure of Preliminary Test

- The EUT and support equipment, if needed, were set up as per the test configuration to simulate typical usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.4 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor standing equipment, it is placed on the ground plane, which has a 12 mm non-conductive covering to insulate the EUT from the ground plane.
- All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
- The test equipment EUT installed by AC 120VAC/60Hz main power, through a Line Impedance Stabilization Network (LISN), which was supplied power source and was grounded to the ground plane.
- All support equipment power by from a second LISN.
- The test program of the EUT was started. Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.
- The Receiver scanned from 150kHz to 30MHz for emissions in each of the test modes.
- During the above scans, the emissions were maximized by cable manipulation.
- The test mode(s) described in Item 3.1 were scanned during the preliminary test.
- After the preliminary scan, we found the test mode described in Item 3.1 producing the highest emission level.
- The worst configuration of EUT and cable of the above highest emission level were recorded for reference of the final test.

Procedure of Final Test

- EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test.
- A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.
- The test data of the worst-case condition(s) was recorded.

6.4. TEST SETUP



- For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

6.5. DATA SAMPLE:

Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correctrion factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak. limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
x.xx	43.95	33.00	10.00	53.95	43.00	56.00	46.00	-2.05	-3.00	Pass

Frequency (MHz) = Emission frequency in MHz
Reading (dBuV) = Uncorrected Analyzer/Receiver reading + Insertion loss of LISN, if it > 0.5 dB
Correction Factor (dB) = LISN Factor + Cable Loss
Result (dBuV) = Raw reading converted to dBuV and CF added
Limit (dBuV) = Limit stated in standard
Margin (dB) = Result (dBuV) – Limit (dBuV)

6.6. TEST RESULTS

Not applicable, because EUT does not connect to AC Main Source direct.

7 RADIATED EMISSION MEASUREMENT

7.1. LIMITS OF RADIATED EMISSION MEASUREMENT

7.1.1 Frequency Range

FCC Part 15 Subpart B:

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.75	30
1.75-108	1000
108-500	2000
500-1000	5000
Above 1000	5^{th} harmonic of the highest frequency or 40GHz, whichever is lower

ISED ICES-003:

Highest internal frequency (F_X)	**Highest measurement frequency**
$F_X \leq 108$ MHz	1 GHz
108 MHz < $F_X \leq 500$ MHz	2 GHz
500 MHz < $F_X \leq 1$ GHz	5 GHz
$F_X > 1$ GHz	5 x F_X up to a maximum of 40 GHz

Note: F_X is the highest fundamental frequency generated and/or used in the ITE or digital apparatus under test.

7.1.2 Limits of Radiated Emission

FCC Part 15 Subpart B Limit:

- Detector Function: Quasi – Peak

FREQUENCY (MHz)	Class A (at 10m)	Class B (at 3m)
	dBuV/m	dBuV/m
30~88	39	40
88~216	43.5	43.5
216~960	46.4	46
960~1000	49.5	54

- Detector Function : Peak , Average

FREQUENCY (MHz)	Class A (dBuV/m) (at 3m)		Class B (dBuV/m) (at 3m)	
	Peak	Average	Peak	Average
Above 1000	80	60	74	54

CISPR 22 Limit:

- Detector Function: Quasi – Peak

FREQUENCY (MHz)	Class A (at 10m)	Class B (at 10m)
	dBuV/m	dBuV/m
30~230	40	30
230~1000	47	37

NOTE 1 The lower limit shall apply at the transition frequency.
NOTE 2 Additional provisions may be required for cases where interference occurs.

ISED ICES-003 Limit:

- Detector Function : Quasi-peak

Frequency (MHz)	Class A (3 m) (dBuV/m)	Class A (10 m) (dBuV/m)	Class B (3 m) (dBuV/m)	Class B (10 m) (dBuV/m)
30 - 88	50	40	40	30
88 - 216	54	43.5	43.5	33.1
216 - 230	56.9	46.4	46	35.6
230 - 960	57	47	47	37
960 - 1000	60	49.5	54	43.5

Note: The more stringent limit applies at transition frequencies

- Detector Function :Peak, Average

Frequency (MHz)	Class A (3 m) (dBuV/m)		Class B (3 m) (dBuV/m)	
	Peak	Average	Peak	Average
Above 1000	80	60	74	54

7.2. TEST INSTRUMENTS

Below 1GHz

Wugu 10M Chamber					
Name of Equipment	**Manufacturer**	**Model**	**Serial Number**	**Calibration Date**	**Calibration Due**
EMI Test Receiver	R&S	ESCI	100961	2023/05/02	2024/05/01
EMI Test Receiver	R&S	ESCI	100962	2023/05/08	2024/05/07
Pre-Amplifier	HP	8447D	2944A08150	2023/04/22	2024/04/21
Pre-Amplifier	HP	8447D	2944A07754	2023/04/22	2024/04/21
Bilog Antenna with 5dB Attenator	TESEQ	CBL 6112D	31674	2023/02/09	2024/02/08
Bilog Antenna with 5dB Attenator	TESEQ	CBL 6112D	31675	2023/03/21	2024/03/20
Cable	Huber Suhner	SUCOFLEX 104PEA	33948/4PEA	2023/04/22	2024/04/21
Cable	Huber Suhner	SUCOFLEX 104PEA	33949/4PEA	2023/04/22	2024/04/21
Cable	Huber Suhner	SUCOFLEX 104PEA	330029	2023/04/22	2024/04/21
Cable	Huber Suhner	SUCOFLEX 104PEA	24813	2023/04/22	2024/04/21
Turn Table	CCS	CC-T-1F	N/A	N.C.R	N.C.R
Controller	CCS	CC-C-1F	N/A	N.C.R	N.C.R
Antenna Tower	CCS	CC-A-1F	N/A	N.C.R	N.C.R
AC power source	APE	AFC-130	991259	N.C.R	N.C.R
Software	EZ-EMC (CCS-3A1RE)				

Note:
1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. N.C.R. = No Calibration Required.

Above 1GHz

Wugu 10M Chamber					
Name of Equipment	**Manufacturer**	**Model**	**Serial Number**	**Calibration Date**	**Calibration Due**
Horn Antenna	ETS LINDGREN	3117	00055167	2023/11/14	2024/11/13
Horn Antenna	ETS LINDGREN	3116	00026370	2022/12/22	2023/12/21
Spectrum Analyzer	Agilent	E4446A	MY48250297	2023/07/24	2024/07/23
Pre-Amplifier	EMCI	EMC051845	980040	2023/04/22	2024/04/21
Cable	Huber Suhner	SUCOFLEX 104PEA	33945	2023/04/22	2024/04/21
Cable	Huber Suhner	SUCOFLEX 104PEA	329383	2023/04/22	2024/04/21
Pre-Amplifier	MITEQ	AMF-6F-18004000-37-8P	985646	2023/08/23	2024/08/22
High Pass Filters	Titan Microwave	T04H30001800070S01	22011402-4	2023/06/17	2024/06/16
Turn Table	CCS	CC-T-1F	N/A	N.C.R	N.C.R
Antenna Tower	Sunol Sciences	TLT2	031010-5	N.C.R	N.C.R
Controller	Sunol Sciences	SC104V	031010-1	N.C.R	N.C.R
AC power source	APE	AFC-130	991259	N.C.R	N.C.R
Software	EZ-EMC (CCS-3A1RE)				

Note:
1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. N.C.R. = No Calibration Required.

7.3. TEST PROCEDURES (please refer to measurement standard or CCS SOP PA-031)

The basic test procedure was in accordance with ANSI C63.4 and ICES-003.

Frequency range 30MHz ~ 1GHz

1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meter semi-anechoic chamber room. The table was rotated 360 degrees to determine the position.
2. The EUT was set 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
3. The height of antenna is varied from one meter to four meter above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was turned to heights for 1 meter to 4 meters and the turn table was turned from 0 degrees to 360 degrees to find the maximum reading.
5. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1GHz.

NOTE: The resolution bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.

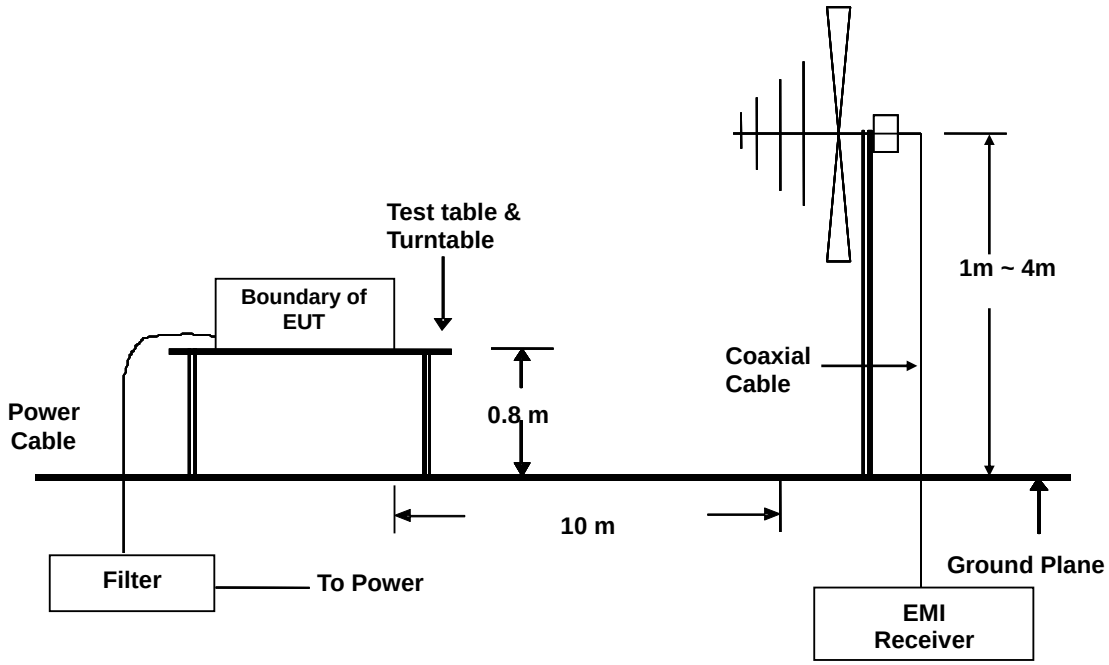
Frequency range above 1GHz

1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber room. The table was rotated 360 degrees to determine the position.
2. The EUT was set 3 meters away from the directional antenna, which was pointed towards the source of the emission within the EUT. This could be done by either pointing the antenna at an angle towards the source of the emission, or by rotating the EUT, in both height and polarization, to maximize the measured emission.
3. The height of antenna can be varied from one meter to four meters, the height of adjustment depends on the EUT height and the antenna 3 dB beam width both, to detect the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was turned to heights and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
5. The test-receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1GHz.

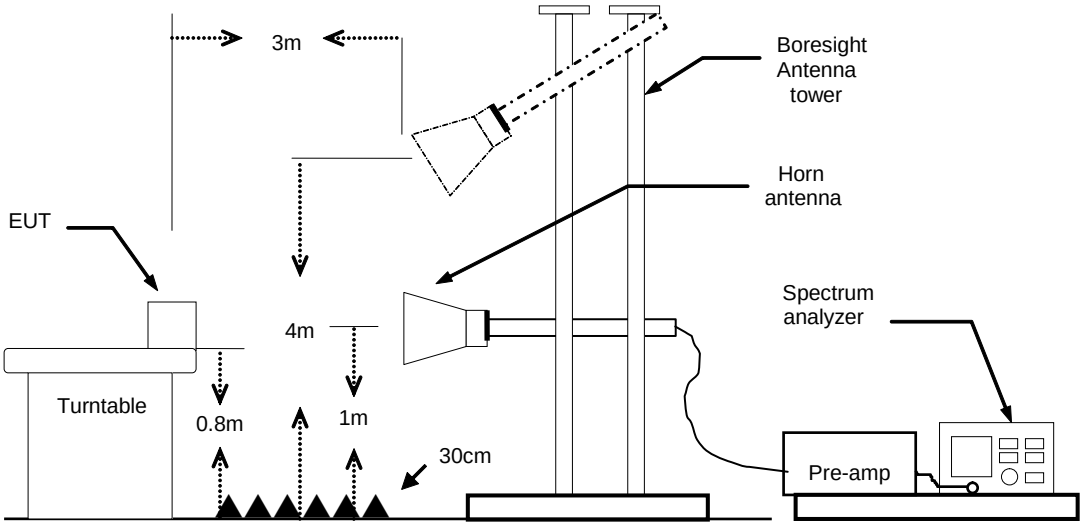
NOTE:
1. The resolution bandwidth is 1MHz and video bandwidth of test spectrum analyzer is 1 MHz for peak detection at above 1GHz. The resolution bandwidth is 1MHz and video bandwidth of test spectrum analyzer is 100Hz for average detection at frequency above 1 GHz.
2. For measurement of frequency above 1GHz, the EUT was set 3 meters away from the directional antenna.

7.4. TEST SETUP

Below 1GHz



Above 1GHz



- For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

7.5. DATA SAMPLE:

Below 1GHz

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (◦)	Remark
xx.xx	16.49	9.86	26.35	30.00	-3.65	116.00	101.00	QP

Above 1GHz

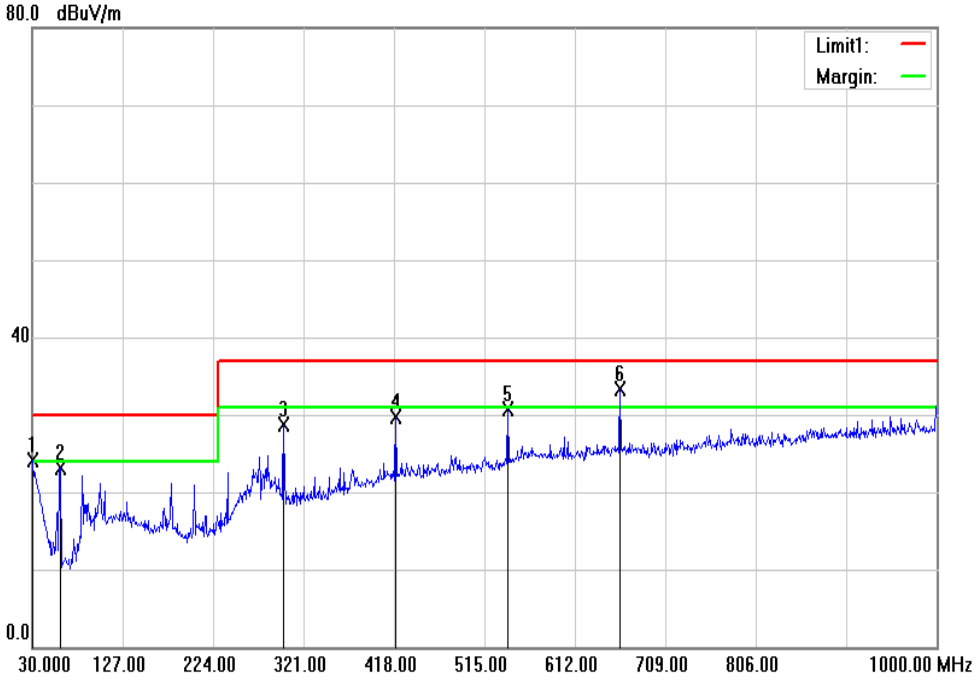
Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (◦)	Remark
xx.xx	60.80	-14.59	46.21	74.00	-27.79	200	351	peak
xx.xx	52.05	-13.17	38.88	54.00	-15.12	200	135	AVG

Frequency (MHz) = Emission frequency in MHz
Reading (dBuV) = Uncorrected Analyzer / Receiver reading
Correction Factor (dB/m) = Antenna factor + Cable loss – Amplifier gain
Result (dBuV/m) = Reading (dBuV) + Corr. Factor (dB/m)
Limit (dBuV/m) = Limit stated in standard
Margin (dB) = Result (dBuV/m) – Limit (dBuV/m)
Q.P. = Quasi-Peak

7.6. TEST RESULTS

Below 1GHz

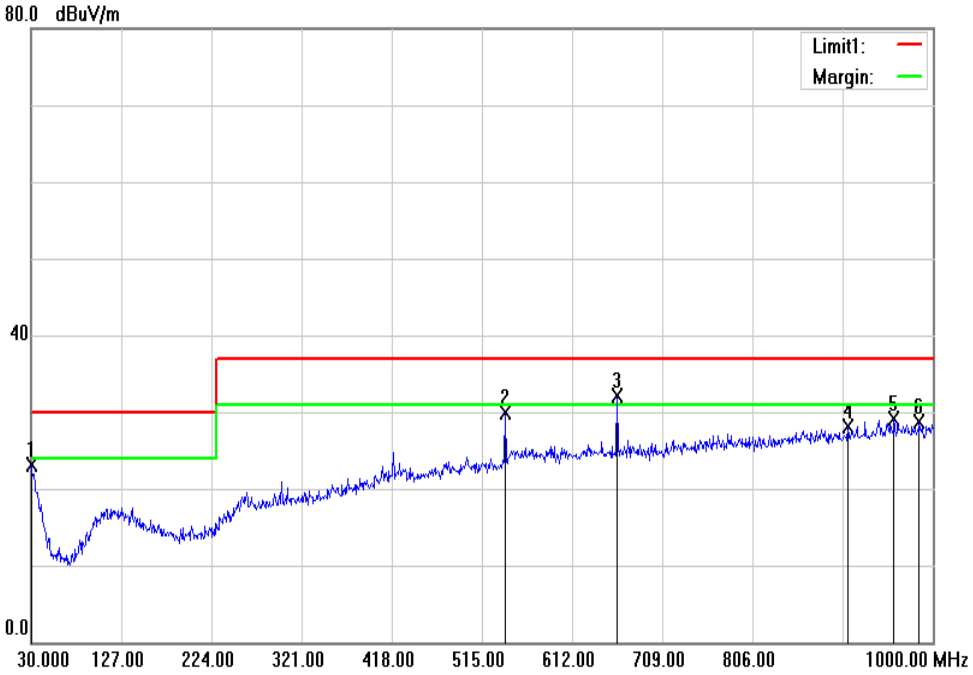
Model No.	CORTIS08	**Test Mode**	Mode 1
Environmental Conditions	23℃, 54% RH	**Tested Date**	2023/12/15
Antenna Pole	Vertical	**Antenna Distance**	10m
Detector Function	Quasi-peak.	**Tested By**	Rex Kuo
6dB Bandwidth	120 kHz	**Standard**	FCC Part 15 Subpart B



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	30.0000	26.51	-2.39	24.12	30.00	-5.88	300	359	QP
2	60.0700	37.78	-14.68	23.10	30.00	-6.90	200	112	QP
3	299.6600	33.23	-4.58	28.65	37.00	-8.35	400	225	QP
4	419.9400	30.55	-0.91	29.64	37.00	-7.36	100	96	QP
5	540.2200	30.01	0.61	30.62	37.00	-6.38	100	30	QP
6	660.5000	31.31	2.03	33.34	37.00	-3.66	100	274	QP

REMARKS: The other emission levels were very low against the limit.

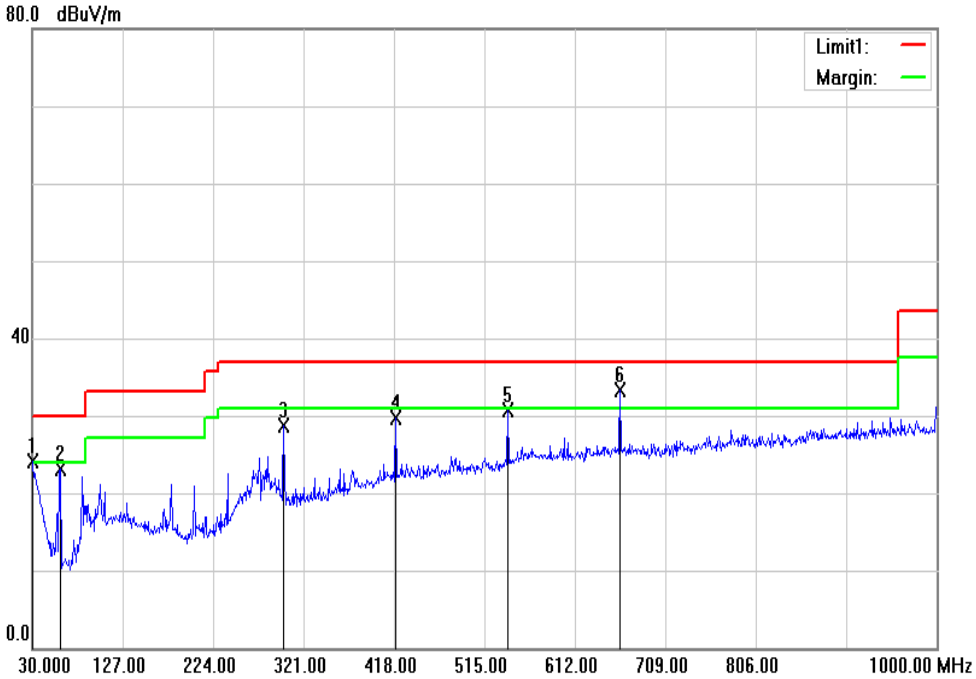
Model No.	CORTIS08	**Test Mode**	Mode 1
Environmental Conditions	23℃, 54% RH	**Tested Date**	2023/12/15
Antenna Pole	Horizontal	**Antenna Distance**	10m
Detector Function	Quasi-peak.	**Tested By**	Rex Kuo
6dB Bandwidth	120 kHz	**Standard**	FCC Part 15 Subpart B



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	30.0000	26.79	-3.74	23.05	30.00	-6.95	100	3	QP
2	540.2200	30.84	-0.90	29.94	37.00	-7.06	200	131	QP
3	660.5000	31.89	0.29	32.18	37.00	-4.82	400	24	QP
4	908.8200	24.93	3.16	28.09	37.00	-8.91	400	0	QP
5	958.2900	24.79	4.26	29.05	37.00	-7.95	400	57	QP
6	985.4500	24.31	4.32	28.63	37.00	-8.37	400	280	QP

REMARKS: The other emission levels were very low against the limit.

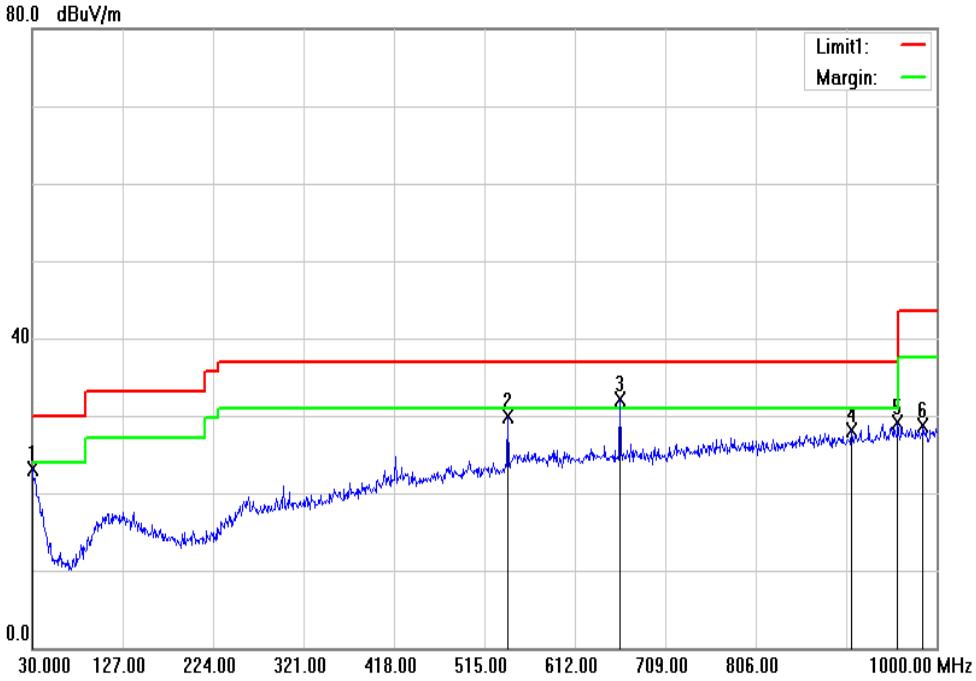
Model No.	CORTIS08	**Test Mode**	Mode 1
Environmental Conditions	23℃, 54% RH	**Tested Date**	2023/12/15
Antenna Pole	Vertical	**Antenna Distance**	10m
Detector Function	Quasi-peak.	**Tested By**	Rex Kuo
6dB Bandwidth	120 kHz	**Standard**	ISED ICES-003 Issue 7



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	30.0000	26.51	-2.39	24.12	30.00	-5.88	300	359	QP
2	60.0700	37.78	-14.68	23.10	30.00	-6.90	200	112	QP
3	299.6600	33.23	-4.58	28.65	37.00	-8.35	400	225	QP
4	419.9400	30.55	-0.91	29.64	37.00	-7.36	100	96	QP
5	540.2200	30.01	0.61	30.62	37.00	-6.38	100	30	QP
6	660.5000	31.31	2.03	33.34	37.00	-3.66	100	274	QP

REMARKS: The other emission levels were very low against the limit.

Model No.	CORTIS08	**Test Mode**	Mode 1
Environmental Conditions	23℃, 54% RH	**Tested Date**	2023/12/15
Antenna Pole	Horizontal	**Antenna Distance**	10m
Detector Function	Quasi-peak.	**Tested By**	Rex Kuo
6dB Bandwidth	120 kHz	**Standard**	ISED ICES-003 Issue 7

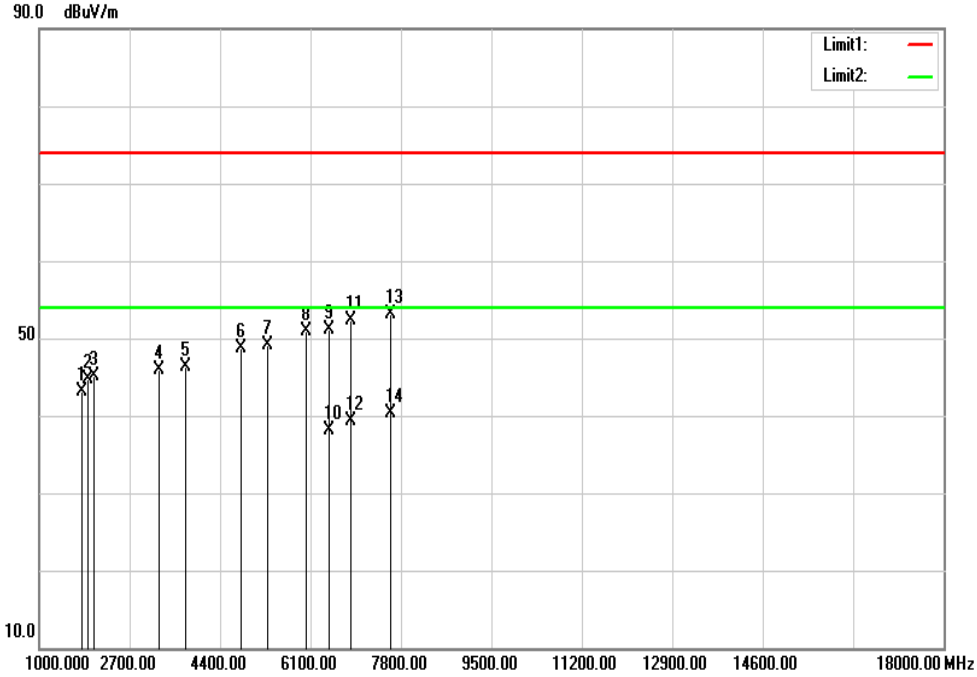


No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	30.0000	26.79	-3.74	23.05	30.00	-6.95	100	3	QP
2	540.2200	30.84	-0.90	29.94	37.00	-7.06	200	131	QP
3	660.5000	31.89	0.29	32.18	37.00	-4.82	400	24	QP
4	908.8200	24.93	3.16	28.09	37.00	-8.91	400	0	QP
5	958.2900	24.79	4.26	29.05	37.00	-7.95	400	57	QP
6	985.4500	24.31	4.32	28.63	43.50	-14.87	400	280	QP

REMARKS: The other emission levels were very low against the limit.

Above 1GHz

Model No.	CORTIS08	Test Mode	Mode 1
Environmental Conditions	23℃, 54% RH	Tested Date	2023/12/15
Antenna Pole	Vertical	Antenna Distance	3m
Highest frequency generated or used	433.92MHz	Upper frequency	2GHz
Detector Function	Peak & Average	Tested By	Rex Kuo
6dB Bandwidth	1 MHz		

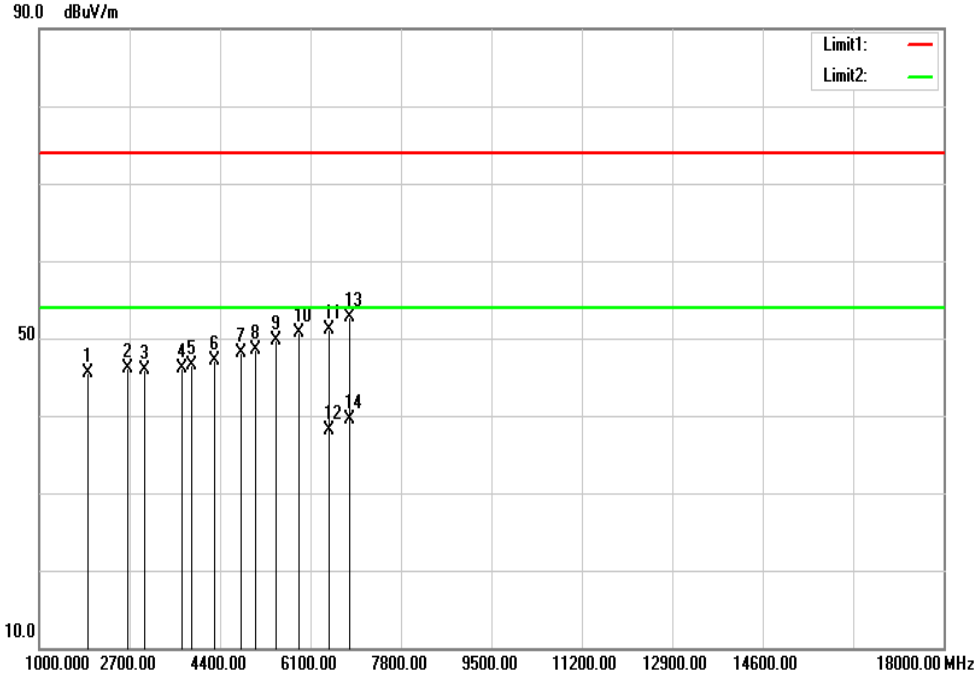


No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	1799.000	58.62	-15.42	43.20	74.00	-30.80	200	48	peak
2	1918.000	59.02	-14.26	44.76	74.00	-29.24	400	95	peak
3	2037.000	58.96	-13.83	45.13	74.00	-28.87	100	95	peak
4	3269.500	57.43	-11.58	45.85	74.00	-28.15	200	4	peak
5	3762.500	56.78	-10.42	46.36	74.00	-27.64	200	246	peak
6	4791.000	56.68	-7.92	48.76	74.00	-25.24	200	209	peak
7	5301.000	55.89	-6.81	49.08	74.00	-24.92	100	359	peak
8	6015.000	55.99	-5.11	50.88	74.00	-23.12	300	255	peak

No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
9	6457.000	55.14	-3.95	51.19	74.00	-22.81	100	360	peak
10	6457.000	42.09	-3.95	38.14	54.00	-15.86	100	360	AVG
11	6873.500	55.55	-3.32	52.23	74.00	-21.77	300	9	peak
12	6873.500	42.53	-3.32	39.21	54.00	-14.79	300	9	AVG
13	7613.000	56.31	-3.22	53.09	74.00	-20.91	400	85	peak
14	7613.000	43.43	-3.22	40.21	54.00	-13.79	400	85	AVG

REMARKS:
1. The other emission levels were very low against the limit.
2. Margin (dB) = Result (dBuV/m) – Limit (dBuV/m)

Model No.	CORTIS08	Test Mode	Mode 1
Environmental Conditions	23℃, 54% RH	Tested Date	2023/12/15
Antenna Pole	Horizontal	Antenna Distance	3m
Highest frequency generated or used	433.92MHz	Upper frequency	2GHz
Detector Function	Peak & Average	Tested By	Rex Kuo
6dB Bandwidth	1 MHz		



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	1918.000	59.77	-14.26	45.51	74.00	-28.49	100	0	peak
2	2666.000	58.77	-12.66	46.11	74.00	-27.89	200	245	peak
3	2980.500	58.04	-12.08	45.96	74.00	-28.04	100	359	peak
4	3677.500	56.67	-10.65	46.02	74.00	-27.98	300	349	peak
5	3856.000	56.75	-10.15	46.60	74.00	-27.40	300	293	peak
6	4289.500	56.67	-9.56	47.11	74.00	-26.89	139	0	peak
7	4791.000	55.95	-7.92	48.03	74.00	-25.97	300	331	peak
8	5063.000	55.53	-7.03	48.50	74.00	-25.50	200	94	peak

No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
9	5454.000	55.98	-6.32	49.66	74.00	-24.34	300	360	peak
10	5870.500	56.15	-5.51	50.64	74.00	-23.36	100	38	peak
11	6457.000	54.99	-3.95	51.04	74.00	-22.96	100	0	peak
12	6457.000	42.15	-3.95	38.20	54.00	-15.80	100	0	AVG
13	6822.500	56.07	-3.35	52.72	74.00	-21.28	400	95	peak
14	6822.500	42.80	-3.35	39.45	54.00	-14.55	400	95	AVG

REMARKS:
1. The other emission levels were very low against the limit.
2. Margin (dB) = Result (dBuV/m) – Limit (dBuV/m)