

Prüfbericht-Nr.: Test report no.:	CN24TWEE 001	Auftrags-Nr.: Order no.:	48246439	Seite 1 von 15 Page 1 of 15
Kunden-Referenz-Nr.: Client reference no.:	N/A	Auftragsdatum: Order date:	2024-04-15	
Auftraggeber: Client:	BSIZE INC. 2-12-11-9F, SHIN-YOKOHAMA KOUHOKU-KU, Yokohama, Kanagawa, Japan			
Prüfgegenstand: Test item:	Cellular Wireless Module			
Bezeichnung / Typ-Nr.: Identification / Type no.:	nRF9160			
Auftrags-Inhalt: Order content:	FCC Part 27 Test report			
Prüfgrundlage: Test specification:	FCC 47CFR Part 27 Subpart C, H, L			
Wareneingangsdatum: Date of sample receipt:	2024-01-25			
Prüfmuster-Nr.: Test sample no.:	A003694723-007			
Prüfzeitraum: Testing period:	2024-05-03 - 2024-05-13			
Ort der Prüfung: Place of testing:	EMC/RF Taipei Testing Site			
Prüflaboratorium: Testing laboratory:	Taipei Testing Laboratories			
Prüfergebnis*: Test result*:	Pass			
überprüft von: compiled by:	genehmigt von: authorized by:			
Datum: Date:	2024-06-28	Ausstellungsdatum: Issue date:	2024-06-28	
Stellung / Position:	Senior Project Manager	Stellung / Position:	Senior Project Manager	
Sonstiges / Other:	This is C2PC report. Only radiated spurious emissions is performed in this report. For other test results, refer to original report no.: (NIE) 59675RRF.001 and report no.: (NIE) 58741RRF.003.			
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:	Prüfmuster vollständig und unbeschädigt Test item complete and undamaged			
* Legende:	1 = sehr gut P(ass) = entspricht o.g. Prüfgrundlage(n)	2 = gut F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	3 = befriedigend F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	4 = ausreichend N/A = nicht anwendbar
* Legend:	1 = very good P(ass) = passed a.m. test specification(s)	2 = good F(ail) = failed a.m. test specification(s)	3 = satisfactory F(ail) = failed a.m. test specification(s)	4 = sufficient N/A = not applicable
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.				

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Anmerkungen
Remarks

1	Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben. Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden. <i>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</i>
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3	Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben. Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt. <i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report.</i> <i>Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i>
4	Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2021, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019. <i>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2021, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</i>

TEST SUMMARY

Report Section	FCC Clause	Test Item	Support Band	Result
-	2.1046	Conducted Output Power	-	Note 1
	27.50(c)(10)	Effective Radiated Power	Band 12	
	27.50(d)(4)	Effective Isotropically Radiated Power	Band 4 Band 66	
-	2.1055 27.54	Frequency Stability	-	Note 1
-	27.50(d)(5)	Peak to Average Ratio	-	Note 1
-	2.1049	Occupied Bandwidth and 26 dB Bandwidth	-	Note 1
-	2.1051	Conducted Band Edge & Emission Mask	-	Note 1
	27.53(h)		Band 4 Band 66	
	27.53(g)		Band 12	
-	2.1051	Conducted Spurious Emissions	-	Note 1
	27.53(h)		Band 4 Band 66	
	27.53(g)		Band 12	
5.1.1	2.1053	Radiated Spurious Emissions	-	Pass
	27.53(h)		Band 4 Band 66	
	27.53(g)		Band 12	

Note:

1. Refer to original report.
2. The mark "-" means that the standard applied to all the bands.
3. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

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APPENDIX A - TEST RESULT OF RADIATED SPURIOUS EMISSIONS

APPENDIX SP - PHOTOGRAPHS TEST SETUP

APPENDIX EP - PHOTOGRAPHS OF EUT

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HISTORY OF THIS TEST REPORT

Revision	Description	Date Issued
R01	Original Release	2024-06-28

1. General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A - Test Result of Radiated Spurious Emissions

Appendix SP - Photographs Test Setup

Appendix EP - Photographs of EUT

Applied Standard and Test Levels

Radio
FCC 47 CFR Part 2
FCC 47 CFR Part 27
KDB 971168 D01 Power Meas License Digital Systems v03r01
ANSI/TIA/EIA-603-E 2016
ANSI C63.26-2015

1.2 Decision Rule of Conformity

The decision rule of conformity of this test report is following the requirements of the requested standard in the quotation, and agreed among testing laboratory and manufacturer (applicant) to exclude the consideration of Measurement Uncertainty, unless it is required by the specific standard.

2. Test Sites

2.1 Test Laboratory

Taipei Testing Laboratories

11F. No.758, Sec. 4, Bade Rd., Songshan Dist.
Taipei City 105
Taiwan (R.O.C.)

2.2 Test Facility

Taipei Testing Laboratories

No.458-18, Sec. 2, Fenliao Rd., Linkou Dist.,
New Taipei City 244
Taiwan (R.O.C.)
FCC Registration No.: 180491
ISED Registration No.: 25563

2.3 Traceability

All measurement equipment calibrations are traceable to NML(Taiwan)/NIST(USA) or where calibration is performed outside Taiwan, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically in a suitably accredited Calibration Lab. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

All measurement uncertainty values are shown with a coverage factor of $k=2$ to indicate a 95% level of confidence.

Emission Measurement Uncertainty

Parameter	Uncertainty
Radiated Emission (9 kHz ~ 30 MHz)	± 1.15 dB
Radiated Emission (30 MHz ~ 200 MHz)	± 1.32 dB
Radiated Emission (200 MHz ~ 1 GHz)	± 1.31 dB
Radiated Emission (1 GHz ~ 18 GHz)	± 1.53 dB
Radiated Emission (18 GHz ~ 40 GHz)	± 2.50 dB
Mains Conducted Emission	± 1.65 dB

3. General Product Information

3.1 Product Function and Intended Use

The EUT is a Cellular Wireless Module. It contains a WWAN compatible module enabling the user to communicate data through a Wireless interface.

For details refer to the User Guide, Data Sheet and Circuit Diagram.

3.2 System Details and Ratings

Basic Information of EUT

Item	EUT information
Kind of Equipment/Test Item	Cellular Wireless Module
Type Identification	nRF9160
FCC ID	2BFDZBLM-GTNU
Host Information	Product Name: BoT Talk Brand: Bsize Model: BLM-GTN

Note: The EUT is installed into the host during the test.

Technical Specification of EUT

Item	EUT information	
Operating Frequency	eMTC Band 4 (1.4 MHz)	1710.7 ~ 1754.3 MHz
	eMTC Band 4 (3 MHz)	1711.5 ~ 1753.5 MHz
	eMTC Band 4 (5 MHz)	1712.5 ~ 1752.5 MHz
	eMTC Band 4 (10 MHz)	1715.0 ~ 1750.0 MHz
	eMTC Band 4 (15 MHz)	1717.5 ~ 1747.5 MHz
	eMTC Band 4 (20 MHz)	1720.0 ~ 1745.0 MHz
	eMTC Band 12 (1.4 MHz)	699.7 ~ 715.3 MHz
	eMTC Band 12 (3 MHz)	700.5 ~ 714.5 MHz
	eMTC Band 12 (5 MHz)	701.5 ~ 713.5 MHz
	eMTC Band 12 (10 MHz)	704.0 ~ 711.0 MHz
	eMTC Band 66 (1.4 MHz)	1710.7 ~ 1779.3 MHz
	eMTC Band 66 (3 MHz)	1711.5 ~ 1778.5 MHz
	eMTC Band 66 (5 MHz)	1712.5 ~ 1777.5 MHz
	eMTC Band 66 (10 MHz)	1715.0 ~ 1775.0 MHz
	eMTC Band 66 (15 MHz)	1717.5 ~ 1772.5 MHz
	eMTC Band 66 (20 MHz)	1720.0 ~ 1770.0 MHz
Modulation	QPSK, 16QAM	
Operation Voltage	5 Vdc (from host)	

Item	EUT information	
Antenna Typ	PIFA antenna	
Antenna Gain (dBi)	eMTC Band 4	-5.41
	eMTC Band 12	-12.46
	eMTC Band 66	-5.41
Accessory Device	Refer to 4.3	

3.3 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

3.4 Submitted Documents

- Circuit Diagram
- Instruction Manual
- Rating Label
- Technical Description

4. Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

The equipment under test (EUT) was configured to measure its maximum power level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Setup for testing: Test samples enable WWAN function and make it possible to control them through Base Station simulator.

The samples were used as follows:
A003694723-007

Full test was applied on all test modes, but only worst case was shown.

Radiated Spurious Emissions

- ☒ Pre-Scan full test was applied on all test modes, but only worst case was shown.
☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Band	Channel Bandwidth	Available Channel	Tested Channel	Modulation	Mode	Position
-	eMTC Band 4	5 MHz	19975 to 20375	19975, 20175, 20375	QPSK	1 RB	X-plane
	eMTC Band 12	10 MHz	23060 to 23130	23060, 23095, 23130	QPSK	1 RB	X-plane
	eMTC Band 66	5 MHz	31997 to 132647	131997, 132322, 132647	QPSK	1 RB	X-plane

Test Condition

Test Item	Ambient Temperature	Relative Humidity	Tested by
Radiated Spurious Emissions	22.6-24.5 °C	52-54 %	Roger Liao

4.3 Special Accessories and Auxiliary Equipment

The product has been tested together with the following additional accessories:

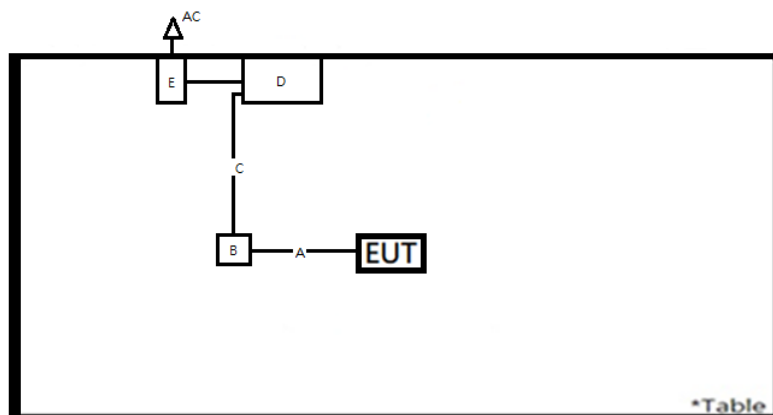
Accessory of EUT

None

Support Unit

Support Unit								
No	Description	Brand	Model	S/N	Shielded	Ferrite Core (Qty)	Length (cm)	Remark
A	USB to Type-C	TUV-JP	TUV-JP-01	N/A	N/A	N/A	30	--
B	Fixture	TUV-JP	TUV-JP-02	N/A	-	-	-	--
C	USB to Micro	TUV-JP	TUV-JP-03	N/A	N/A	N/A	50	--
D	Notebook	Panasonic	CF-SZ5PDYVS	N/A	-	-	-	--
E	Adapter	Panasonic	CF-AA6412C M3	N/A	NO	YES	200	--

4.4 Test Setup Diagram



5. Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Radiated Spurious Emissions

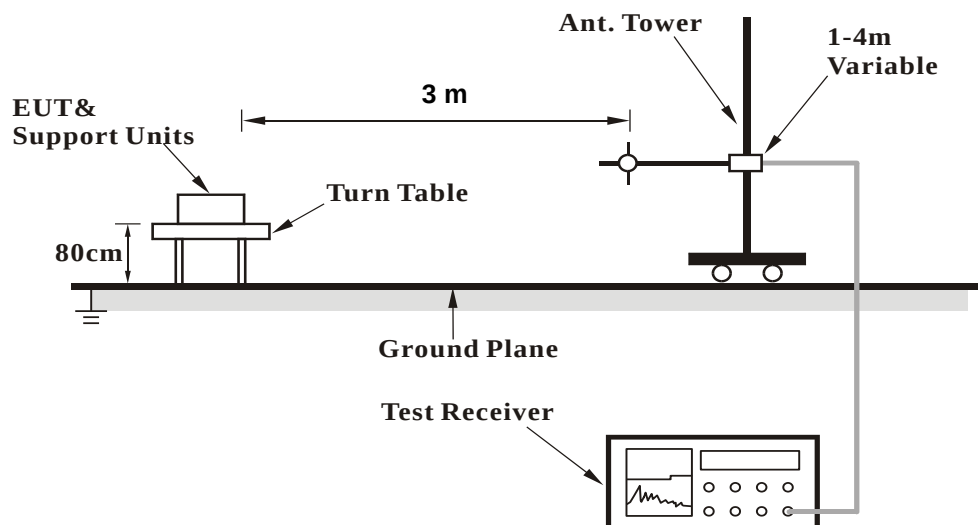
Limit

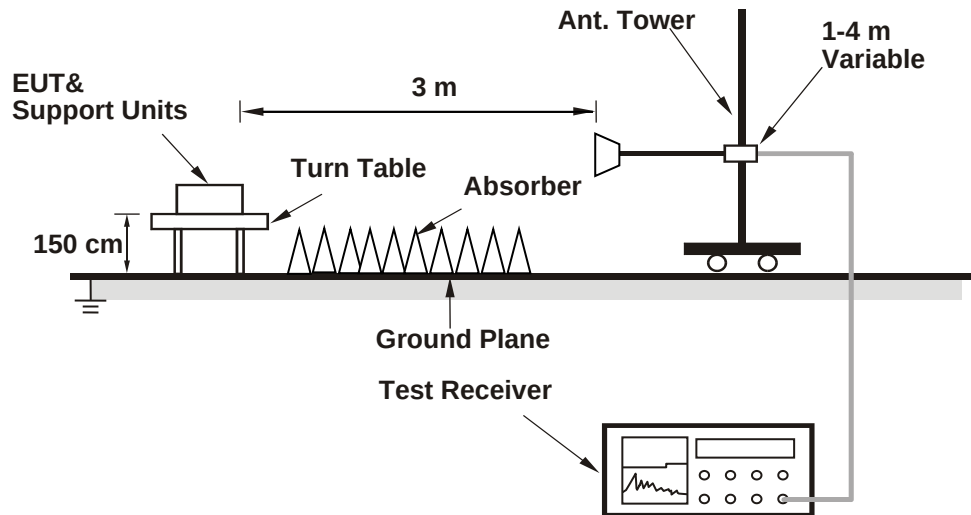
§27.53(h), §27.53(g): The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $43 + 10 \log (P)$ dB.

Kind of Test Site 3m Semi-Anechoic Chamber

Test Setup

<Radiated Emissions below or equal to 1 GHz>



<Radiated Emissions above 1 GHz>


For the actual test configuration, please refer to the attached file (Test Setup Photo).

Test Instruments

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date
Above 1 GHz					
Signal Analyzer	R&S	FSV40	101509	2024/4/30	2025/4/29
Horn Antenna	ETS-Lindgren	3117	00218929	2023/11/17	2024/11/15
HF-AMP + AC source	EMCI	EM01G18GA	980635	2024/3/28	2025/3/27
Wireless Tester	R&S	CMW500	166923	2024/4/9	2025/4/8
Test Software	Audix E3	15914a_20191106 tuv	PK-001087	N/A	N/A
30 MHz ~ 1 GHz					
Receiver	R&S	ESR7	101509	2024/4/30	2025/4/29
Bilog Antenna	SCHWARZBECK	VULB-9168	00951	2024/3/21	2025/3/20
LF-AMP	Agilent	8447D	2727A05146	2024/1/24	2025/1/22
Wireless Tester	R&S	CMW500	166923	2024/4/9	2025/4/8
Test Software	Audix E3	15914a_20191106 tuv	PK-001087	N/A	N/A

Test Procedures

- a. In the semi-anechoic chamber, EUT placed on the 0.8m (below or equal 1 GHz) and/or 1.5m (above 1 GHz) height of turn table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- b. The height of antenna is varied from one meter to four meters 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.
- c. Perform a field strength measurement and record the worse rad value, is the filed strength value via a spectrum reading obtained corrected for antenna factor, cable loss and pre-amplifier factor and then mathematically convert the measured field strength level to EIRP/ERP level.
- d. Following C63.26 section 5.5 and 5.2.7
$$\text{EIRP (dBm)} = E \text{ (dB}\mu\text{V/m)} + 20\log(D) - 104.8;$$
 where D is measurement distance (in the far field region) in m.
$$\text{ERP (dBm)} = E \text{ (dB}\mu\text{V/m)} + 20\log(D) - 104.8 - 2.15;$$
 where D is measurement distance (in the far field region) in m.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.
2. Testing was carried out within frequency range 30 MHz to the tenth harmonic.
3. All modes of operation were investigated and the worst-case emissions are reported.
4. The Radiated Emissions testing was performed in the X(E1), Y(H) and Z(E2) axis orientation. The worst-case Axis orientation is recorded in this test report.

Test Results

Please refer to Appendix A.

Appendix A: Test Results of Radiated Spurious Emissions

Worst Mode 30MHz ~ 1000MHz

eMTC Band 66												
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor	Cable Factor	Pre- Amplifier	Correction Factor (dB/m)	Polarization (H/V)
High	87	-63.84	-13	-50.84	300	306	43.83	14	0.65	27.06	-107.67	H
	187	-68.76	-13	-55.76	200	291	34.43	17.69	0.97	26.59	-103.19	H
	280	-69.79	-13	-56.79	100	170	31.56	19.51	1.21	26.81	-101.35	H
	455	-64.05	-13	-51.05	200	236	33.74	23.32	1.6	27.45	-97.79	H
	625	-65.28	-13	-52.28	300	179	29.03	26.51	1.92	27.48	-94.31	H
	845	-61.06	-13	-48.06	100	214	30.09	29.08	2.29	27.26	-91.15	H
	53	-57.19	-13	-44.19	100	180	44.05	20.7	0.5	27.18	-101.24	V
	171	-70.6	-13	-57.6	100	52	30.96	19.44	0.92	26.66	-101.56	V
	325	-70.58	-13	-57.58	200	300	29.61	20.73	1.32	26.98	-100.19	V
	530	-65.3	-13	-52.3	200	173	31.1	24.7	1.74	27.58	-96.4	V
	737	-62.42	-13	-49.42	200	53	30.23	27.87	2.11	27.37	-92.65	V
	825	-60.75	-13	-47.75	244	360	30.47	29	2.3	27.26	-91.22	V

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre\ Amp(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit$
4. The other EIRP levels were very low against the limit.

1GHz ~ 18GHz

eMTC Band 4												
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor	Cable Factor	Pre- Amplifier	Correction Factor (dB/m)	Polarization (H/V)
Low	3422	-43.07	-13	-30.07	100	290	62.86	33.1	7.38	51.15	-105.93	H
	5134	-54.78	-13	-41.78	200	248	47.99	34.97	9.11	51.59	-102.77	H
	6845	-54.25	-13	-41.25	100	100	46.67	36.1	10.58	52.34	-100.92	H
	3422	-44.61	-13	-31.61	300	267	61.32	33.1	7.38	51.15	-105.93	V
	5134	-56.09	-13	-43.09	300	361	46.68	34.97	9.11	51.59	-102.77	V
	6845	-56.07	-13	-43.07	300	107	44.85	36.1	10.58	52.34	-100.92	V
Mid	3462	-40.25	-13	-27.25	300	169	65.64	33.1	7.42	51.15	-105.89	H
	5194	-55.8	-13	-42.8	157	360	46.71	35.18	9.17	51.6	-102.51	H
	6925	-55.3	-13	-42.3	100	155	45.62	36.05	10.64	52.35	-100.92	H
	3462	-44.12	-13	-31.12	200	47	61.77	33.1	7.42	51.15	-105.89	V
	5194	-55.33	-13	-42.33	100	152	47.18	35.18	9.17	51.6	-102.51	V
	6925	-53.96	-13	-40.96	268	360	46.96	36.05	10.64	52.35	-100.92	V
High	3502	-39.97	-13	-26.97	100	19	65.88	33.1	7.46	51.15	-105.85	H
	5254	-56.28	-13	-43.28	200	18	46.43	34.95	9.22	51.62	-102.71	H
	7005	-55.25	-13	-42.25	100	259	45.51	36.17	10.7	52.37	-100.76	H
	3502	-43.59	-13	-30.59	200	158	62.26	33.1	7.46	51.15	-105.85	V
	5254	-56.72	-13	-43.72	100	250	45.99	34.95	9.22	51.62	-102.71	V
	7005	-55	-13	-42	100	310	45.76	36.17	10.7	52.37	-100.76	V

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre\ Amp(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit$
4. The other EIRP levels were very low against the limit.

1GHz ~ 8GHz

eMTC Band 12												
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor	Cable Factor	Pre- Amplifier	Correction Factor (dB/m)	Polarization (H/V)
Low	1401	-44.86	-13	-31.86	147	360	70.24	28.6	4.6	50.89	-112.95	H
	2101	-43.97	-13	-30.97	203	360	66.97	31.81	5.72	51.06	-108.79	H
	2801	-58.54	-13	-45.54	100	154	50.74	32.6	6.66	51.13	-107.13	H
	3502	-49.16	-13	-36.16	200	170	58.84	33.1	7.46	51.15	-105.85	H
	1401	-50.2	-13	-37.2	256	360	64.9	28.6	4.6	50.89	-112.95	V
	2101	-49.97	-13	-36.97	100	36	60.97	31.81	5.72	51.06	-108.79	V
	2801	-57.06	-13	-44.06	100	327	52.22	32.6	6.66	51.13	-107.13	V
	3502	-54.29	-13	-41.29	200	174	53.71	33.1	7.46	51.15	-105.85	V
Mid	1408	-45.55	-13	-32.55	221	360	69.56	28.58	4.61	50.89	-112.96	H
	2111	-47.13	-13	-34.13	100	204	63.71	31.89	5.74	51.06	-108.69	H
	2815	-60.3	-13	-47.3	201	360	48.91	32.66	6.67	51.13	-107.06	H
	3519	-50.84	-13	-37.84	200	172	57.1	33.14	7.48	51.15	-105.79	H
	1408	-50.72	-13	-37.72	200	14	64.39	28.58	4.61	50.89	-112.96	V
	2111	-54.91	-13	-41.91	100	90	55.93	31.89	5.74	51.06	-108.69	V
	2815	-56.85	-13	-43.85	178	360	52.36	32.66	6.67	51.13	-107.06	V
	3519	-53.68	-13	-40.68	200	165	54.26	33.14	7.48	51.15	-105.79	V
High	1415	-44.78	-13	-31.78	200	173	70.33	28.57	4.62	50.89	-112.96	H
	2122	-47.12	-13	-34.12	200	19	63.62	31.98	5.75	51.06	-108.59	H
	2829	-57.15	-13	-44.15	100	155	51.98	32.72	6.69	51.13	-106.98	H
	3537	-53.04	-13	-40.04	283	360	54.85	33.17	7.5	51.15	-105.74	H
	1415	-52.12	-13	-39.12	200	316	62.99	28.57	4.62	50.89	-112.96	V
	2122	-52.37	-13	-39.37	100	134	58.37	31.98	5.75	51.06	-108.59	V
	2829	-56.57	-13	-43.57	10	251	52.56	32.72	6.69	51.13	-106.98	V
	3537	-56.26	-13	-43.26	300	247	51.63	33.17	7.5	51.15	-105.74	V

Remarks:

- ERP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m) – 2.15
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre Amp(dB) + 20log(D) – 104.8
- Margin value = EIRP – Limit
- The other ERP levels were very low against the limit.

1GHz ~ 18GHz

eMTC Band 66												
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor	Cable Factor	Pre- Amplifier	Correction Factor (dB/m)	Polarization (H/V)
Low	3422	-42	-13	-29	100	174	63.93	33.1	7.38	51.15	-105.93	H
	5134	-47.81	-13	-34.81	100	254	54.96	34.97	9.11	51.59	-102.77	H
	6845	-52.33	-13	-39.33	300	290	48.59	36.1	10.58	52.34	-100.92	H
	3422	-45.22	-13	-32.22	300	300	60.71	33.1	7.38	51.15	-105.93	V
	5134	-53.91	-13	-40.91	140	360	48.86	34.97	9.11	51.59	-102.77	V
	6845	-54.44	-13	-41.44	100	200	46.48	36.1	10.58	52.34	-100.92	V
Mid	3487	-38.17	-13	-25.17	154	360	67.69	33.1	7.45	51.15	-105.86	H
	5231	-51.51	-13	-38.51	100	301	51.15	35.01	9.2	51.61	-102.66	H
	6975	-51.23	-13	-38.23	300	224	49.56	36.15	10.68	52.36	-100.79	H
	10463	-43.56	-13	-30.56	100	114	52.27	38.33	13.23	52.13	-95.83	H
	3487	-42.42	-13	-29.42	200	24	63.44	33.1	7.45	51.15	-105.86	V
	5231	-53.12	-13	-40.12	100	224	49.54	35.01	9.2	51.61	-102.66	V
	6975	-53.73	-13	-40.73	300	13	47.06	36.15	10.68	52.36	-100.79	V
	10463	-44.81	-13	-31.81	100	328	51.02	38.33	13.23	52.13	-95.83	V
High	3552	-35.33	-13	-22.33	100	360	70.36	33.2	7.52	51.15	-105.69	H
	5329	-49.75	-13	-36.75	100	70	52.71	35.15	9.29	51.64	-102.46	H
	7105	-50.24	-13	-37.24	300	202	50.52	36.1	10.78	52.38	-100.76	H
	3552	-37.85	-13	-24.85	100	201	68.08	33.1	7.38	51.15	-105.93	V
	5329	-49.04	-13	-36.04	300	198	53.73	34.97	9.11	51.59	-102.77	V
	7105	-55.96	-13	-42.96	200	159	44.96	36.1	10.58	52.34	-100.92	V

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre\ Amp(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit$
4. The other EIRP levels were very low against the limit.