



Prüfbericht-Nr.: <i>Test report no.:</i>	60416130 001	Auftrags-Nr.: <i>Order no.:</i>	238487137	Seite 1 von 17 Page 1 of 17	
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	29-May-2020		
Auftraggeber: <i>Client:</i>	Industrea Mining Technology Pty Ltd 3 Co-Wyn Close, Fountaindale, NSW, 2258, Australia				
Prüfgegenstand: <i>Test item:</i>	Personal Digital Assistant				
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	PROD1185				
Auftrags-Inhalt: <i>Order content:</i>	Spot Checking Emissions (FCC + ISED)				
Prüfgrundlage: <i>Test specification:</i>	FCC 47CFR Part 15: Subpart C Section 15.247 / Subpart E Section 15.407 FCC 47CFR Part 22: Subpart H / Part 24: Subpart E / Part 27: Subpart C FCC 47CFR Part 90: Subpart S ISED RSS-247 / RSS-130 / RSS-132 / RSS-133 / RSS-139 / RSS-199				
Wareneingangsdatum: <i>Date of sample receipt:</i>	14-Jul-2020				
Prüfmuster-Nr.: <i>Test sample no.:</i>	A002866252-005				
Prüfzeitraum: <i>Testing period:</i>	14-Sep-2020~26-Sep-2020				
Ort der Prüfung: <i>Place of testing:</i>	EMC/RF Laboratory Taipei				
Prüflaboratorium: <i>Testing laboratory:</i>	Taipei Testing Laboratories				
Prüfergebnis*: <i>Test result*:</i>	Pass				
überprüft von: <i>reviewed by:</i>			genehmigt von <i>authorized by:</i>		
Datum: 28-Sep-2020 <i>Date:</i>	Ryan W.T. Chen		Datum: 28-Sep-2020 <i>Date:</i>	Brenda S.H. Chen	
Stellung / Position:	Project Manager		Stellung / Position:	Project Manager	
Sonstiges / Other:	WWAN module FCC ID: XMR201903EG25G IC: 10224A-201903EG25G				
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>	Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>				
* Legende:	1 = sehr gut P(ass) = entspricht o.g. Prüfgrundlage(n)	2 = gut F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	3 = befriedigend N/A = nicht anwendbar	4 = ausreichend N/T = nicht getestet	5 = mangelhaft
* Legend:	1 = very good P(ass) = passed a.m. test specification(s)	2 = good F(ail) = failed a.m. test specification(s)	3 = satisfactory N/A = not applicable	4 = sufficient N/T = not tested	5 = poor
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. <i>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.</i>					

V05

TEST SUMMARY

Report Section	FCC Clause	ISED Clause	Test Item	Result
5.1.1	15.247(d) & 15.205 & 15.209 & 22.917 & 24.238 & 27.53(h) & 27.53(c)(f)(g)(m) & 90.691	RSS-247 5.5 & RSS-130 4.6 & RSS-132 5.5 & RSS-133 6.5 & RSS-139 6.5 & RSS-199 4.5	Radiated Spurious Emissions and Band Edges	Pass

Note: 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 OF TEST SETUP

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Test Report No.**Seite 4 von 17**
Page 4 of 17**HISTORY OF THIS TEST REPORT**

Report No.	Description	Date Issued
60416130 001	Original Release	28-Sep-2020

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 of Test Setup

Applied Standard and Test Levels

Radio
FCC CFR47 Part 15: Subpart C Section 15.247
FCC CFR47 Part 15: Subpart E Section 15.407
FCC CFR47 Part 22: Subpart H
FCC CFR47 Part 24: Subpart E
FCC CFR47 Part 27: Subpart C
FCC CFR47 Part 90: Subpart S
FCC CFR47 Part 2: Subpart J Section 2.1091
ISED RSS-247 Issue 2 February 2017
ISED RSS-130 Issue 2 February 2019
ISED RSS-132 Issue 3 January 2013
ISED RSS-133 Issue 6 January 2018
ISED RSS-139 Issue 3 July 2017
ISED RSS-199 Issue 3 December 2016
ISED RSS-102 Issue 5 March 2015
ANSI C63.10:2013
KDB 558074 D01 15.247 Meas Guidance v05r02
KDB 996369 D04 Module Integration Guide v01

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.: 226631
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)	± 1.30 dB
Radiated Emission (200 MHz ~ 1 GHz)	± 1.30 dB
Radiated Emission (1 GHz ~ 18 GHz)	± 1.54 dB
Radiated Emission (18 GHz ~ 40 GHz)	± 2.52 dB
Mains Conducted Emission	± 1.65 dB

3. General Product Information

3.1 Product Function and Intended Use

The EUT is a Personal Digital Assistant. It contains a Bluetooth/WLAN/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	Personal Digital Assistant
Type Identification	PROD1185
FCC ID	YIY-PROD1185
IC	8903A-PROD1185
HVIN	0.2

Technical Specification of EUT

Item	EUT information
Operating Frequency	Bluetooth: 2402 ~ 2480 MHz WLAN 2.4GHz: 2412 ~ 2462 MHz WLAN 5GHz: 5180 ~ 5240 MHz; 5745 ~ 5825 MHz GSM850: 824 ~ 849 MHz GSM1900: 1850 ~ 1910 MHz UMTS Band II: 1850 ~ 1910 MHz UMTS Band IV: 1710 ~ 1755 MHz UMTS Band V: 824 ~ 849 MHz LTE Band 2: 1850 ~ 1910 MHz LTE Band 4: 1710 ~ 1755 MHz LTE Band 5: 824 ~ 849 MHz LTE Band 7: 2500 ~ 2570 MHz LTE Band 12: 699 ~ 716 MHz LTE Band 13: 777 ~ 787 MHz LTE Band 25: 1850 ~ 1915 MHz LTE Band 26: 814 ~ 849 MHz LTE Band 38: 2570 ~ 2620 MHz LTE Band 41: 2496 ~ 2690 MHz
Operation Voltage	5Vdc ~ 9Vdc (Tested at 5Vdc)
Modulation	Bluetooth: GFSK Bluetooth LE: GFSK, $\pi/4$ -DQPSK, 8DPSK WLAN: DSSS, OFDM WWAN: GMSK, QPSK, 16QAM
Accessory Device	Refer to 4.3

Note:

1. The tested voltage has been evaluated at 5Vdc and 9Vdc and found that 5Vdc is the worst case.

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 test modes were adapted accordingly in reference to the instructions for use.

During testing, Channel and 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 expected by the customer and is going to be fixed on the firmware of the final end product.

4.2 Test Operation and Test Software

Setup for testing: The test sample itself is equipped with a touch screen. It was used to enable the operation modes listed as below.

The samples were used as follows:

A002866252-005

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

The WIFI and BT can not transmit at the same time.

EUT Configure Mode	Applicable To	Description
	Radiated Spurious Emissions	
-	√	-

Note:

1. The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when position on **X-plane**.
2. "-" means no effect.

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
GSM850_Ch190 + 802.11b_2412 MHz
GSM1900_Ch512 + 802.11b_2412 MHz
UMTS Band II_Ch9262 + 802.11b_2412 MHz
UMTS Band IV_Ch1312 + 802.11b_2412 MHz
UMTS Band V_Ch4132 + 802.11b_2412 MHz
LTE Band 2_1860 MHz (20M) + 802.11b_2412 MHz
LTE Band 4_1732.5 MHz (15M) + 802.11b_2412 MHz
LTE Band 5_836.5 MHz (10M) + 802.11b_2412 MHz
LTE Band 7_2560 MHz (20M) + 802.11b_2412 MHz
LTE Band 12_707.5 MHz (10M) + 802.11b_2412 MHz
LTE Band 13_784.5 MHz (5M) + 802.11b_2412 MHz
LTE Band 25_1907.5 (15M) + 802.11b_2412 MHz
LTE Band 26_819 MHz (10M) + 802.11b_2412 MHz
LTE Band 26_844 MHz (10M) + 802.11b_2412 MHz
LTE Band 38_2595 MHz (10M) + 802.11b_2412 MHz
LTE Band 41_2593 MHz (5M) + 802.11b_2412 MHz

Test Condition

Test Item	Ambient Temperature	Relative Humidity	Tested by
Radiated Spurious Emissions	22-26 °C	50-65 %	Kay Wu

4.3 Special Accessories and Auxiliary Equipment

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

Accessory of EUT

Interface Cable					
No.	Description	Shielded Type	Ferrite Core (Qty)	Length	Remark
A	Power Cable	YES	0	1.5m	--

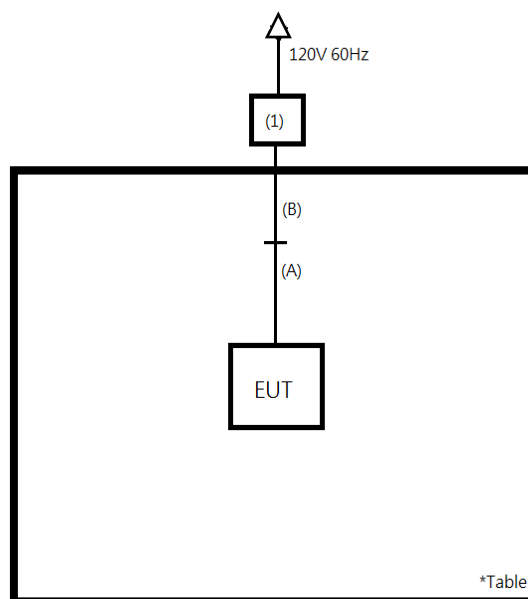
Support Unit

Support Unit					
No.	Description	Brand	Model	S/N	Remark
1	Power Supply	KEITHLEY	2303	N/A	--

Interface Cable					
No.	Description	Shielded Type	Ferrite Core (Qty)	Length	Remark
B	DC Power Cable	NO	0	0.5m	--

4.4 Test Setup Diagram

<Radiated Spurious Emissions Tx mode >



5. Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Radiated Spurious Emissions

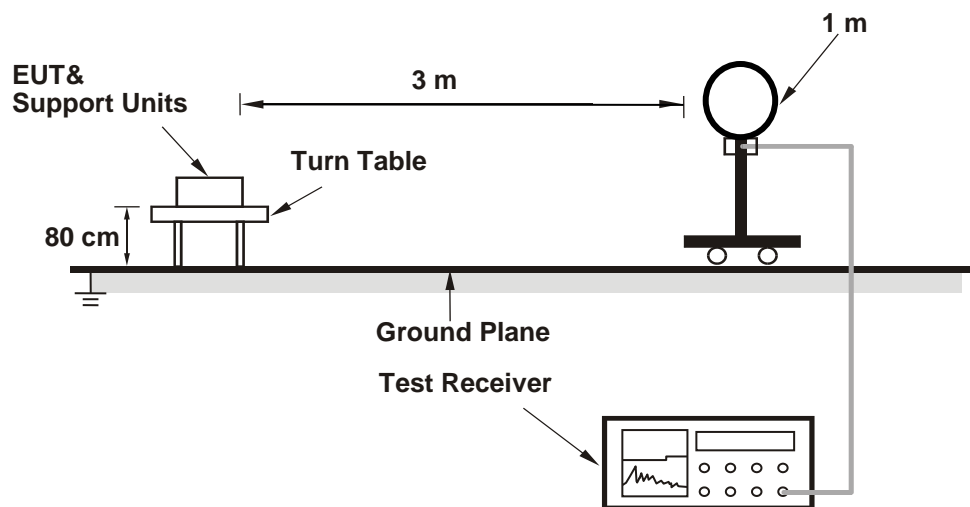
Limit

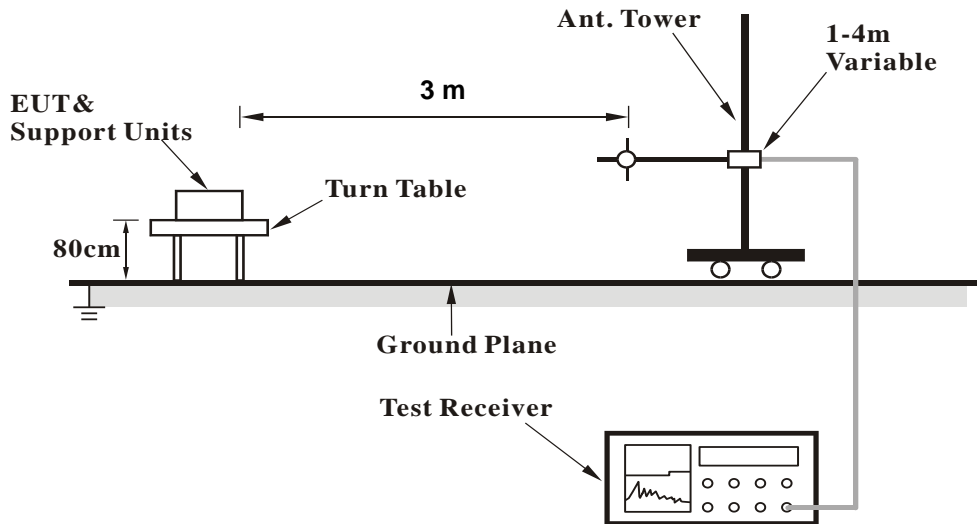
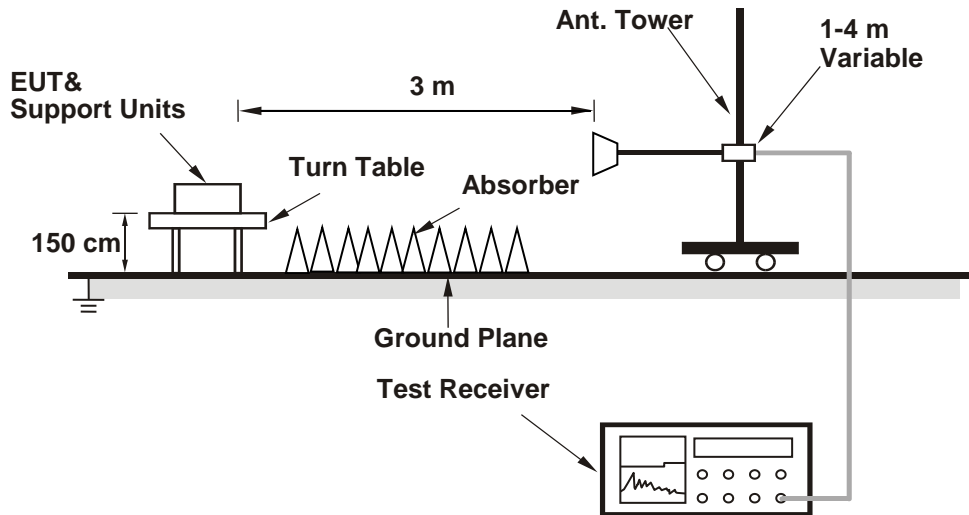
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

Kind of Test Site 3m Semi-Anechoic Chamber

Test Setup

<Radiated Emissions below 30 MHz>



<Radiated Emissions 30 MHz 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
Signal Analyzer	R&S	FSV40	101508	2020/3/16	2021/3/15
Receiver	R&S	ESR7	102108	2020/4/22	2021/4/21
Bilog Antenna	SCHWARZBECK	VULB-9168	00951	2020/2/14	2021/2/13
Horn Antenna	ETS-Lindgren	3117	00218930	2019/12/6	2020/12/5
LF-AMP	Agilent	8447D	2944A10772	2020/2/11	2021/2/10
HF-AMP + AC source	EMCI	EMC051845SE	980633	2020/2/17	2021/2/16
HF-AMP + AC source	EMCI	EMC184045SE	980657	2020/2/17	2021/2/16
Horn Antenna	SCHWARZBECK	BBHA 9170	00887	2020/4/10	2021/4/9
Microwave Cable	HUBER+SUHNER	SUCOFLEX 104EA	800056/4EA	2020/3/25	2021/3/24
Microwave Cable	HUBER+SUHNER	SUCOFLEX 104	804680/4	2020/3/25	2021/3/24
Microwave Cable	HUBER+SUHNER	SUCOFLEX 104	MY37202/4	2020/3/25	2021/3/24
Microwave Cable	HUBER+SUHNER	SUCOFLEX 102EA	800898/2EA	2020/4/22	2021/4/21
Microwave Cable	HUBER+SUHNER	SUCOFLEX 102EA	800901/2EA	2020/4/22	2021/4/21
Microwave Cable	HUBER+SUHNER	SUCOFLEX 102EA	801027/2EA	2020/4/22	2021/4/21
Loop Antenna	Chance Most	EMCILPA600 +calibration	287	2020/1/9	2021/1/8

Test Procedures**For Radiated Emissions below 30 MHz**

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

Note: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9 kHz at frequency below 30 MHz.

For Radiated Emissions above 30 MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30 MHz ~ 1 GHz) / 1.5 meters (for above 1 GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. 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.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to peak and average detected function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) or Peak detection (PK) at frequency below 1 GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1 GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98 %) or 10 Hz (Duty cycle ≥ 98 %) for Average detection (AV) at frequency above 1 GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.
5. The Radiated Emissions testing was performed in the X, Y and Z axis orientation. The worst-case Axis orientation is recorded in this test report.


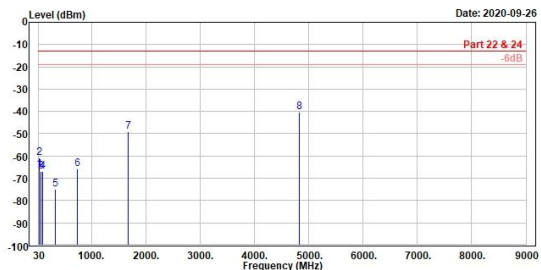

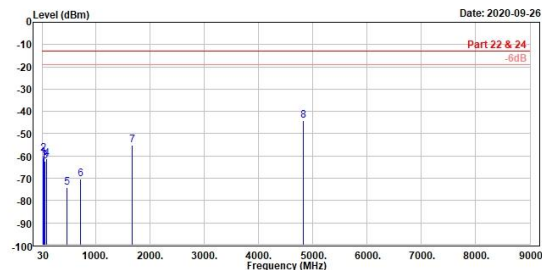
Test Results

Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB)
Level (dBuV/m) = Reading (dBuV) + Factor (dB/m)

Please refer to Appendix A.

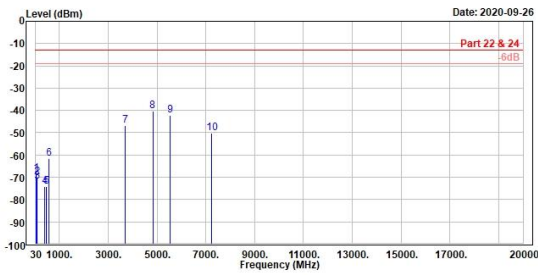
Appendix A: Test Results of Radiated Spurious Emissions

Spurious Emissions, Tx Mode, 30MHz ~ 9GHz

Horizontal		Vertical																																																																																																																																																																															
GSM850 + 802.11b																																																																																																																																																																																	
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GSM1900 + 802.11b
Horizontal
Vertical

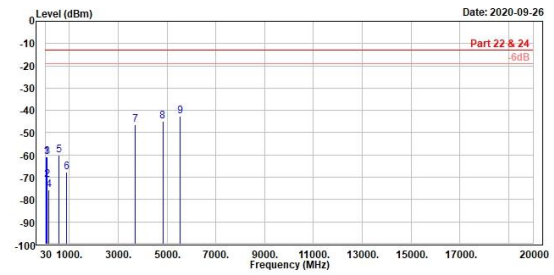

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Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBm	dBm	dB	dBm	dB	cm	deg			
1	40.57	-68.50	-64.60	-3.90	-13.00	-55.50	200	110 Peak	horizontal	
2	68.41	-69.95	-67.15	-2.80	-13.00	-56.95	100	185 Peak	horizontal	
3	99.26	-71.88	-70.13	-1.75	-13.00	-58.88	200	110 Peak	horizontal	
4	393.56	-74.17	-76.91	2.74	-13.00	-61.17	100	290 Peak	horizontal	
5	452.92	-74.23	-77.56	3.33	-13.00	-61.23	100	235 Peak	horizontal	
6	552.53	-61.56	-60.51	4.95	-13.00	-40.56	200	40 Peak	horizontal	
7	3700.00	-46.92	-45.02	-1.90	-13.00	-33.92	300	289 Peak	horizontal	
8	4824.00	-40.36	-41.95	1.59	-13.00	-27.36	100	64 Peak	horizontal	
9	5550.00	-42.11	-45.61	3.50	-13.00	-29.11	100	293 Peak	horizontal	
10	7236.00	-50.21	-54.57	4.36	-13.00	-37.21	200	99 Peak	horizontal	



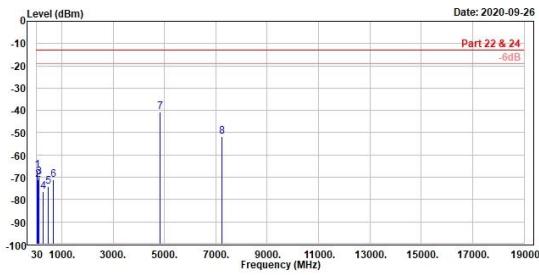
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Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBm	dBm	dB	dBm	dB	cm	deg			
1	45.01	-61.00	-58.07	-2.93	-13.00	-48.00	137	360 Peak	vertical	
2	68.00	-71.19	-68.36	-2.83	-13.00	-58.19	100	10 Peak	vertical	
3	99.06	-60.88	-59.12	-1.76	-13.00	-47.88	200	238 Peak	vertical	
4	149.12	-75.71	-77.09	1.38	-13.00	-62.71	100	323 Peak	vertical	
5	562.63	-59.92	-64.87	4.95	-13.00	-46.92	100	125 Peak	vertical	
6	607.19	-67.73	-70.12	2.39	-13.00	-54.73	200	170 Peak	vertical	
7	3700.00	-46.45	-44.55	-1.90	-13.00	-33.45	0	0 Peak	vertical	
8	4824.00	-44.78	-46.37	1.59	-13.00	-31.78	400	312 Peak	vertical	
9	5551.00	-42.66	-46.16	3.50	-13.00	-29.66	300	68 Peak	vertical	

UMTS Band II + 802.11b
Horizontal
Vertical

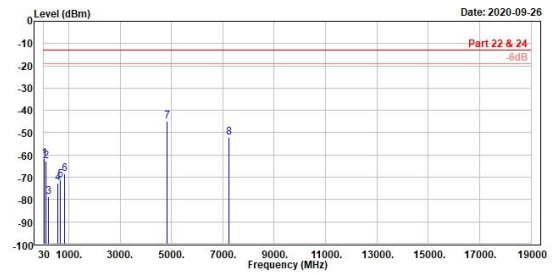

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Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBm	dBm	dB	dBm	dB	cm	deg		
1	45.33	-66.99	-64.06	-2.93	-13.00	-53.99	200	9 Peak	horizontal
2	68.41	-71.09	-68.29	-2.80	-13.00	-58.09	200	185 Peak	horizontal
3	101.68	-70.05	-68.15	-1.90	-13.00	-57.05	200	34 Peak	horizontal
4	279.97	-76.28	-75.68	-0.60	-13.00	-63.28	100	82 Peak	horizontal
5	488.62	-74.22	-77.81	3.59	-13.00	-61.22	200	108 Peak	horizontal
6	671.95	-71.08	-77.77	6.69	-13.00	-58.08	200	80 Peak	horizontal
7	4824.00	-40.82	-42.41	1.59	-13.00	-27.82	100	68 Peak	horizontal
8	7236.00	-51.54	-55.90	4.36	-13.00	-38.54	231	65 Peak	horizontal

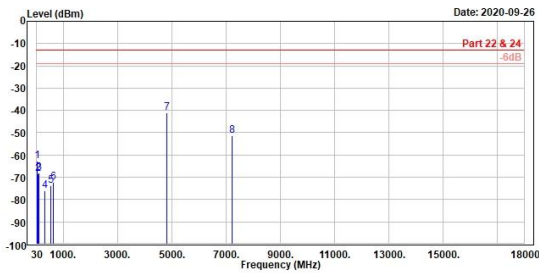


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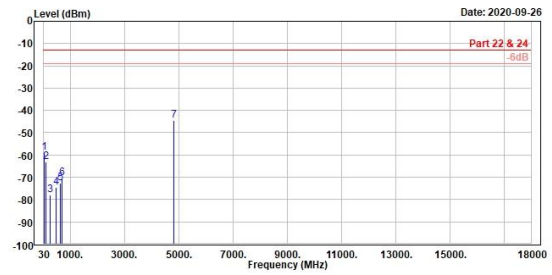


Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBm	dBm	dB	dBm	dB	cm	deg		
1	45.81	-61.77	-58.84	-2.93	-13.00	-48.77	200	119 Peak	vertical
2	101.68	-62.64	-60.74	-1.90	-13.00	-49.64	200	264 Peak	vertical
3	222.74	-78.76	-76.24	-2.52	-13.00	-65.76	171	360 Peak	vertical
4	566.60	-72.66	-77.68	5.02	-13.00	-59.66	200	360 Peak	vertical
5	661.76	-71.18	-77.65	6.47	-13.00	-58.18	178	360 Peak	vertical
6	847.52	-68.54	-78.21	9.67	-13.00	-55.54	171	360 Peak	vertical
7	4824.00	-44.83	-46.42	1.59	-13.00	-31.83	300	334 Peak	vertical
8	7236.00	-51.94	-56.30	4.36	-13.00	-38.94	100	267 Peak	vertical

UMTS Band IV + 802.11b
Horizontal
Vertical

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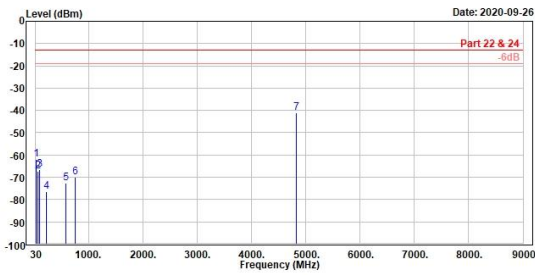
Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBm	dBm	dB	dBm	dB	cm	deg			
1	45.52	-62.05	-59.92	-2.93	-13.00	-49.85	200	195 Peak	horizontal	
2	70.74	-68.58	-65.66	-2.92	-13.00	-55.58	200	147 Peak	horizontal	
3	101.68	-68.22	-66.32	-1.90	-13.00	-55.22	200	204 Peak	horizontal	
4	337.30	-75.87	-77.83	1.96	-13.00	-62.87	100	97 Peak	horizontal	
5	540.51	-73.62	-78.14	4.52	-13.00	-60.62	200	221 Peak	horizontal	
6	647.79	-72.14	-78.32	6.18	-13.00	-59.14	200	20 Peak	horizontal	
7	4824.00	-41.25	-42.84	1.59	-13.00	-28.25	100	68 Peak	horizontal	
8	7236.00	-51.38	-55.74	4.36	-13.00	-38.38	211	14 Peak	horizontal	


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Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBm	dBm	dB	dBm	dB	cm	deg			
1	45.52	-58.96	-56.03	-2.93	-13.00	-45.96	100	249 Peak	vertical	
2	98.87	-63.13	-61.36	-1.77	-13.00	-50.13	115	360 Peak	vertical	
3	279.97	-78.03	-77.43	-0.60	-13.00	-65.03	200	288 Peak	vertical	
4	491.14	-74.44	-78.05	3.61	-13.00	-61.44	200	313 Peak	vertical	
5	627.04	-72.53	-78.47	5.94	-13.00	-59.53	109	360 Peak	vertical	
6	696.52	-70.28	-77.56	7.28	-13.00	-57.28	200	159 Peak	vertical	
7	4824.00	-44.44	-46.03	1.59	-13.00	-31.44	300	328 Peak	vertical	

UMTS Band V + 802.11b
Horizontal
Vertical

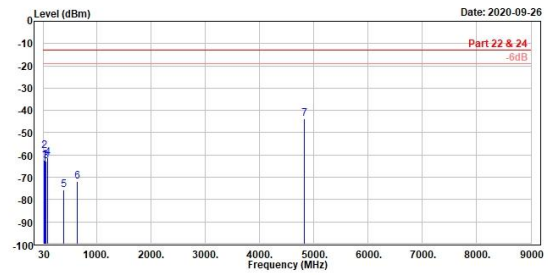

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Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBm	dBm	dB	dBm	dB	cm	deg		
1	45.52	-61.95	-59.02	-2.93	-13.00	-48.95	139	369 Peak	Horizontal
2	70.26	-67.11	-64.18	-2.93	-13.00	-54.11	180	369 Peak	Horizontal
3	97.03	-66.36	-64.52	-1.84	-13.00	-53.36	200	341 Peak	Horizontal
4	224.00	-76.31	-73.83	-2.48	-13.00	-63.31	100	224 Peak	Horizontal
5	587.27	-72.52	-77.91	5.39	-13.00	-59.52	300	24 Peak	Horizontal
6	753.72	-69.81	-75.50	8.69	-13.00	-56.81	100	156 Peak	Horizontal
7	4824.00	-41.10	-42.69	1.59	-13.00	-28.10	100	65 Peak	Horizontal



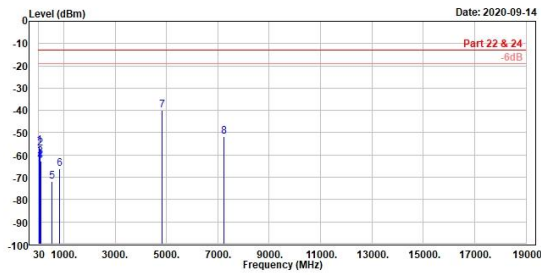
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Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBm	dBm	dB	dBm	dB	cm	deg		
1	39.51	-62.53	-58.53	-4.00	-13.00	-49.53	100	193 Peak	Vertical
2	46.20	-58.29	-55.36	-2.93	-13.00	-45.29	100	317 Peak	Vertical
3	70.74	-62.71	-59.79	-2.92	-13.00	-49.71	123	360 Peak	Vertical
4	96.64	-61.06	-59.20	-1.86	-13.00	-48.06	100	209 Peak	Vertical
5	391.13	-75.62	-78.35	2.73	-13.00	-62.62	200	328 Peak	Vertical
6	649.44	-71.71	-77.91	6.20	-13.00	-58.71	144	360 Peak	Vertical
7	4824.00	-43.90	-45.49	1.59	-13.00	-30.90	300	325 Peak	Vertical

Spurious Emissions, Tx Mode, 30MHz ~ 19GHz
LTE Band 2 + 802.11b
Horizontal
Vertical

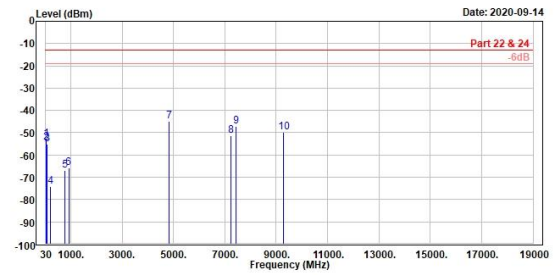

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Peak	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBm	dBm	dB	dBm	dB	cm	deg			
1	32.62	-55.92	-51.98	-3.94	-13.00	-42.92	280	0	Peak	Horizontal	
2	71.71	-57.10	-54.20	-2.90	-13.00	-44.10	280	0	Peak	Horizontal	
3	85.78	-60.75	-58.36	-2.39	-13.00	-47.75	100	184	Peak	Horizontal	
4	96.45	-62.56	-60.69	-1.87	-13.00	-49.56	100	196	Peak	Horizontal	
5	528.77	-71.99	-76.17	4.27	-13.00	-58.99	300	285	Peak	Horizontal	
6	845.48	-66.27	-75.91	9.64	-13.00	-53.27	280	0	Peak	Horizontal	
7	4824.00	-48.07	-41.66	1.59	-13.00	-27.07	100	61	Peak	Horizontal	
8	7236.00	-51.80	-56.16	4.36	-13.00	-38.80	100	146	Peak	Horizontal	



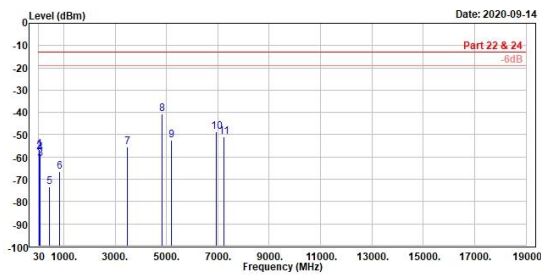
TÜV Rheinland Taiwan Ltd.
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Peak	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBm	dBm	dB	dBm	dB	cm	deg			
1	32.23	-52.90	-48.92	-3.98	-13.00	-39.90	100	89	Peak	Vertical	
2	38.63	-54.49	-50.56	-3.93	-13.00	-41.49	100	62	Peak	Vertical	
3	85.78	-55.19	-52.80	-2.39	-13.00	-42.19	100	101	Peak	Vertical	
4	222.74	-74.19	-71.67	-2.52	-13.00	-61.19	400	-1	Peak	Vertical	
5	781.56	-67.01	-76.00	8.99	-13.00	-54.01	200	217	Peak	Vertical	
6	821.04	-65.05	-76.76	10.91	-13.00	-52.05	300	85	Peak	Vertical	
7	4824.00	-44.74	-46.33	1.59	-13.00	-31.74	400	315	Peak	Vertical	
8	7236.00	-51.30	-55.66	4.36	-13.00	-38.30	100	258	Peak	Vertical	
9	7448.00	-47.14	-51.52	4.38	-13.00	-34.14	100	95	Peak	Vertical	
10	9300.00	-49.65	-55.84	6.19	-13.00	-36.65	200	122	Peak	Vertical	

LTE Band 4 + 802.11b
Horizontal
Vertical

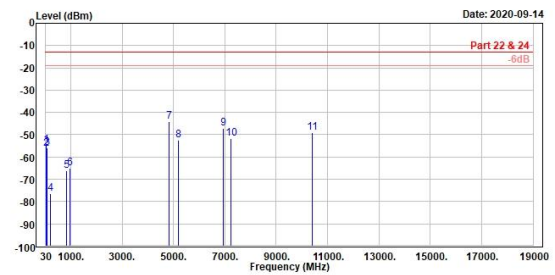

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Peak	Freq (MHz)	Level (dBm)	Read Level (dBm)	Factor (dB)	Limit Line (dBm)	Over Limit (dBm)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	32.23	-56.01	-52.83	-3.98	-13.00	-43.81	200	10	Peak	Horizontal	
2	36.44	-57.88	-53.96	-3.92	-13.00	-44.88	200	190	Peak	Horizontal	
3	72.18	-60.88	-57.91	-2.89	-13.00	-47.88	229	0	Peak	Horizontal	
4	85.97	-58.24	-55.86	-2.38	-13.00	-45.24	100	73	Peak	Horizontal	
5	436.82	-73.33	-76.50	3.17	-13.00	-60.33	200	1	Peak	Horizontal	
6	846.74	-66.69	-76.35	9.06	-13.00	-53.69	300	301	Peak	Horizontal	
7	3465.00	-55.38	-53.54	-1.84	-13.00	-42.38	300	73	Peak	horizontal	
8	4824.00	-40.59	-42.18	1.59	-13.00	-27.59	100	64	Peak	horizontal	
9	5197.00	-52.53	-55.10	2.57	-13.00	-39.53	100	232	Peak	horizontal	
10	6938.00	-48.82	-52.99	4.17	-13.00	-35.82	200	114	Peak	horizontal	
11	7236.00	-50.83	-55.19	4.36	-13.00	-37.83	100	116	Peak	horizontal	



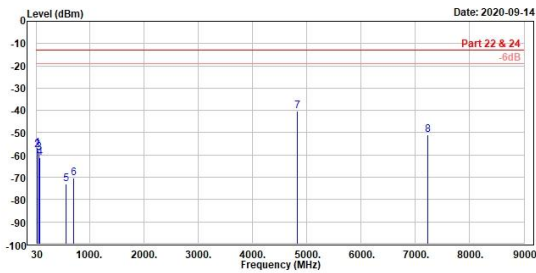
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Peak	Freq (MHz)	Level (dBm)	Read Level (dBm)	Factor (dB)	Limit Line (dBm)	Over Limit (dBm)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	32.52	-54.70	-50.75	-3.95	-13.00	-41.70	100	360	Peak	Vertical	
2	36.83	-56.13	-52.18	-3.95	-13.00	-43.13	115	360	Peak	Vertical	
3	72.29	-55.88	-52.99	-2.89	-13.00	-42.88	100	134	Peak	Vertical	
4	222.74	-76.30	-73.78	-2.52	-13.00	-63.30	200	302	Peak	Vertical	
5	846.06	-66.19	-75.84	9.65	-13.00	-53.19	200	5	Peak	Vertical	
6	959.26	-65.04	-76.35	11.31	-13.00	-52.04	100	290	Peak	Vertical	
7	4824.00	-44.06	-45.65	1.59	-13.00	-31.06	400	139	Peak	vertical	
8	5197.50	-52.53	-55.10	2.57	-13.00	-39.53	100	170	Peak	vertical	
9	6938.00	-47.01	-51.18	4.17	-13.00	-34.01	200	70	Peak	vertical	
10	7236.00	-51.59	-55.95	4.36	-13.00	-38.59	0	0	Peak	vertical	
11	10395.00	-49.15	-50.68	8.93	-13.00	-36.15	300	71	Peak	vertical	

LTE Band 5 + 802.11b
Horizontal
Vertical

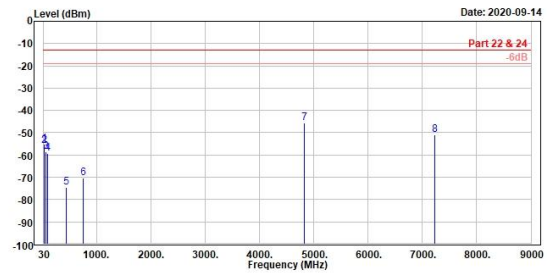

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Peak	Freq (MHz)	Level (dBm)	Read Level (dBm)	Factor (dB)	Limit Line (dBm)	Over Limit (dBm)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	32.23	-57.07	-53.09	-3.98	-13.00	-44.07	200	223	Peak	horizontal	
2	36.63	-57.68	-53.75	-3.93	-13.00	-44.68	200	70	Peak	horizontal	
3	72.39	-58.92	-56.04	-2.88	-13.00	-45.92	200	272	Peak	horizontal	
4	86.26	-61.08	-58.72	-2.36	-13.00	-48.08	100	166	Peak	horizontal	
5	568.84	-73.11	-78.17	5.06	-13.00	-60.11	300	360	Peak	horizontal	
6	704.25	-70.39	-77.01	7.42	-13.00	-57.39	100	116	Peak	horizontal	
7	4824.00	-40.27	-41.86	1.59	-13.00	-27.27	100	63	Peak	horizontal	
8	7236.00	-50.85	-55.21	4.36	-13.00	-37.85	200	156	Peak	horizontal	



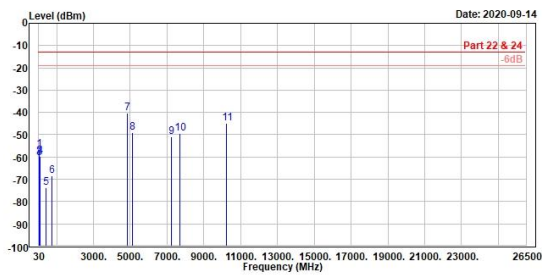
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Peak	Freq (MHz)	Level (dBm)	Read Level (dBm)	Factor (dB)	Limit Line (dBm)	Over Limit (dBm)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	32.23	-55.11	-51.13	-3.98	-13.00	-42.11	100	11	Peak	vertical	
2	36.63	-55.82	-51.89	-3.93	-13.00	-42.82	100	297	Peak	vertical	
3	71.90	-58.39	-55.50	-2.89	-13.00	-45.39	100	358	Peak	vertical	
4	95.38	-59.28	-57.37	-1.91	-13.00	-46.28	100	58	Peak	vertical	
5	448.46	-74.45	-77.74	3.29	-13.00	-61.45	300	119	Peak	vertical	
6	762.64	-70.39	-79.18	8.79	-13.00	-57.39	200	177	Peak	vertical	
7	4824.00	-45.47	-47.06	1.59	-13.00	-32.47	100	200	Peak	vertical	
8	7236.00	-51.10	-55.46	4.36	-13.00	-38.10	100	251	Peak	vertical	

LTE Band 7 + 802.11b
Horizontal
Vertical

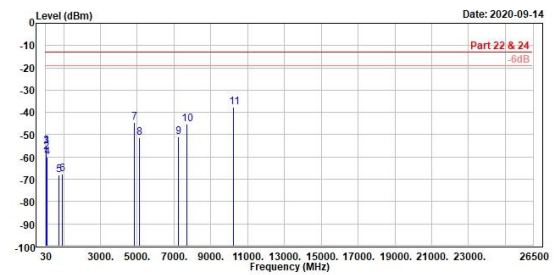

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Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBm	dBm	dB	dBm	dB	cm	deg			
1	32.33	-56.59	-52.62	-3.97	-13.00	-43.59	200	14 Peak	horizontal	
2	36.05	-59.86	-55.97	-3.89	-13.00	-46.86	240	9 Peak	horizontal	
3	72.18	-60.46	-57.57	-2.89	-13.00	-47.46	100	289 Peak	horizontal	
4	85.39	-59.80	-57.39	-2.41	-13.00	-46.80	100	210 Peak	horizontal	
5	439.53	-73.58	-76.78	3.20	-13.00	-60.58	100	138 Peak	horizontal	
6	737.62	-68.29	-76.61	8.32	-13.00	-55.29	300	270 Peak	horizontal	
7	4824.00	-48.19	-41.78	1.59	-13.00	-27.19	100	60 Peak	Horizontal	
8	5128.00	-48.86	-51.20	2.34	-13.00	-35.86	200	190 Peak	Horizontal	
9	7236.00	-51.02	-55.38	4.36	-13.00	-38.02	300	162 Peak	Horizontal	
10	7680.00	-49.31	-53.85	4.54	-13.00	-36.31	200	124 Peak	Horizontal	
11	18240.00	-44.96	-53.49	8.53	-13.00	-31.96	200	76 Peak	Horizontal	



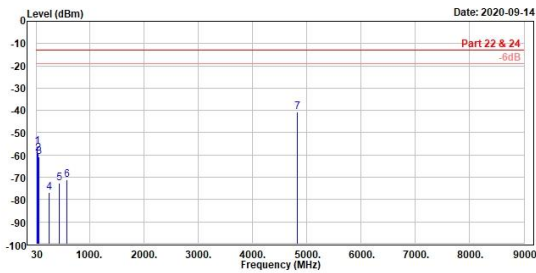
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Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBm	dBm	dB	dBm	dB	cm	deg			
1	32.52	-55.29	-51.34	-3.95	-13.00	-42.29	100	78 Peak	vertical	
2	45.42	-57.64	-54.71	-2.93	-13.00	-44.64	105	360 Peak	vertical	
3	72.20	-54.98	-52.09	-2.89	-13.00	-41.98	100	166 Peak	vertical	
4	96.15	-60.18	-58.30	-1.88	-13.00	-47.18	100	270 Peak	vertical	
5	752.55	-68.04	-76.72	8.68	-13.00	-55.04	300	130 Peak	vertical	
6	990.53	-67.62	-76.36	10.74	-13.00	-54.62	300	270 Peak	vertical	
7	4824.00	-44.51	-46.10	1.59	-13.00	-31.51	400	312 Peak	Vertical	
8	5128.00	-51.38	-53.72	2.34	-13.00	-38.38	200	360 Peak	Vertical	
9	7236.00	-51.11	-55.47	4.36	-13.00	-38.11	100	245 Peak	Vertical	
10	7680.00	-45.37	-49.91	4.54	-13.00	-32.37	100	112 Peak	Vertical	
11	18240.00	-37.75	-46.28	8.53	-13.00	-24.75	100	160 Peak	Vertical	

LTE Band 12 + 802.11b
Horizontal
Vertical

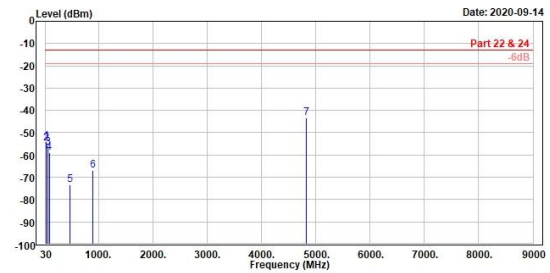

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Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBm	dBm	dB	dBm	dB	cm	deg			
1	32.43	-56.15	-52.19	-3.96	-13.00	-43.15	180	182 Peak	horizontal	
2	50.56	-59.21	-56.34	-2.87	-13.00	-46.21	280	28 Peak	horizontal	
3	72.20	-60.78	-57.89	-2.89	-13.00	-47.78	219	0 Peak	horizontal	
4	261.35	-76.99	-75.66	-1.33	-13.00	-63.99	100	248 Peak	horizontal	
5	439.83	-72.75	-75.95	3.20	-13.00	-59.75	300	179 Peak	horizontal	
6	591.44	-71.17	-76.64	5.47	-13.00	-58.17	250	0 Peak	horizontal	
7	4824.00	-40.66	-42.25	1.59	-13.00	-27.66	180	51 Peak	Horizontal	



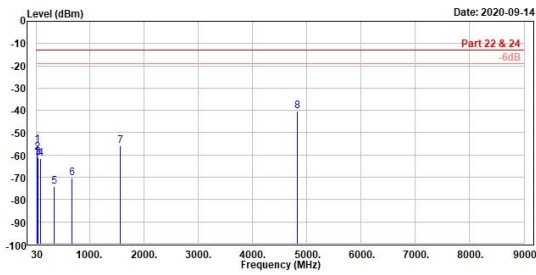
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Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBm	dBm	dB	dBm	dB	cm	deg			
1	32.13	-53.98	-49.99	-3.99	-13.00	-40.98	180	306 Peak	vertical	
2	39.02	-54.90	-50.94	-3.96	-13.00	-41.90	180	52 Peak	vertical	
3	72.00	-56.57	-53.68	-2.89	-13.00	-43.57	100	125 Peak	vertical	
4	93.05	-58.83	-56.83	-2.00	-13.00	-45.83	100	202 Peak	vertical	
5	481.05	-73.24	-76.77	3.53	-13.00	-60.24	300	191 Peak	vertical	
6	900.50	-66.99	-77.63	10.64	-13.00	-53.99	200	164 Peak	vertical	
7	4824.00	-43.16	-44.75	1.59	-13.00	-30.16	480	152 Peak	Vertical	

LTE Band 13 + 802.11b
Horizontal
Vertical

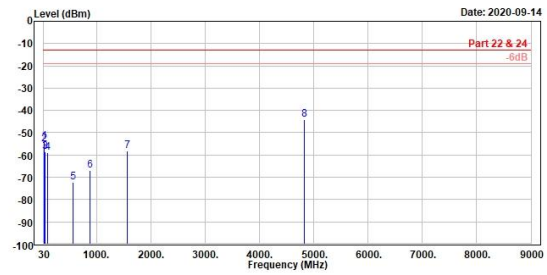

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Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBm	dBm	dB	dBm	cm	deg			
1	32.43	-55.46	-51.50	-3.96	-13.00	-42.46	200	332 Peak	horizontal
2	36.83	-58.97	-55.02	-3.95	-13.00	-45.97	200	241 Peak	horizontal
3	51.34	-61.33	-58.52	-2.81	-13.00	-48.33	200	145 Peak	horizontal
4	93.15	-61.56	-59.56	-2.00	-13.00	-48.56	100	72 Peak	horizontal
5	352.23	-74.08	-76.66	2.58	-13.00	-61.08	100	247 Peak	horizontal
6	672.04	-70.15	-76.04	6.09	-13.00	-57.15	100	293 Peak	horizontal
7	1569.00	-55.96	-46.93	-9.03	-13.00	-42.96	400	314 Peak	horizontal
8	4824.00	-40.28	-41.87	1.59	-13.00	-27.28	100	68 Peak	horizontal

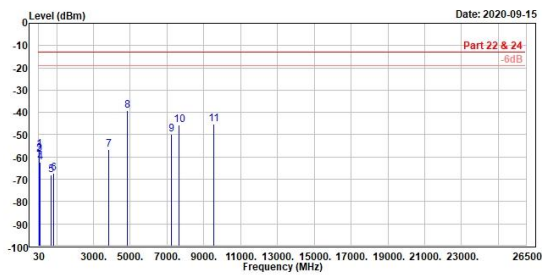


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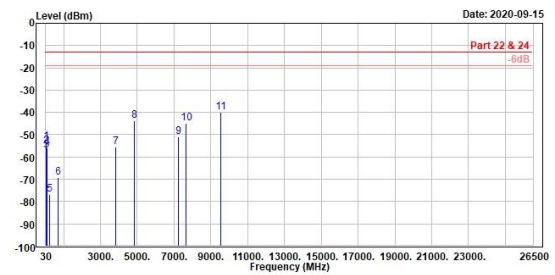


Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBm	dBm	dB	dBm	cm	deg			
1	32.23	-53.86	-49.88	-3.98	-13.00	-40.86	100	23 Peak	vertical
2	36.44	-54.99	-51.07	-3.92	-13.00	-41.99	100	262 Peak	vertical
3	51.05	-58.62	-55.78	-2.84	-13.00	-45.62	100	1 Peak	vertical
4	95.77	-58.79	-56.90	-1.89	-13.00	-45.79	100	132 Peak	vertical
5	573.78	-72.06	-77.21	5.15	-13.00	-59.06	300	220 Peak	vertical
6	676.56	-67.08	-77.31	10.23	-13.00	-54.08	100	244 Peak	vertical
7	1569.00	-58.21	-49.18	-9.03	-13.00	-45.21	400	157 Peak	vertical
8	4824.00	-44.25	-45.84	1.59	-13.00	-31.25	300	322 Peak	vertical

LTE Band 25 + 802.11b
Horizontal
Vertical

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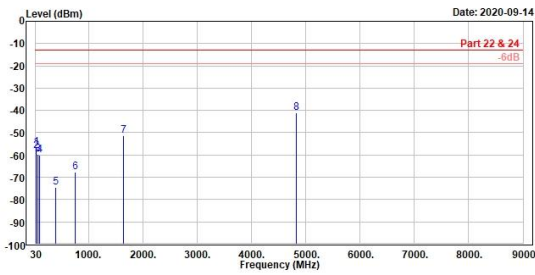
Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBm	dBm	dB	dBm	dB	cm	deg			
1	32.43	-56.67	-52.71	-3.96	-13.00	-43.67	200	110 Peak	horizontal	
2	36.15	-58.00	-54.90	-3.90	-13.00	-45.80	200	1 Peak	horizontal	
3	72.10	-58.44	-55.55	-2.89	-13.00	-45.44	100	40 Peak	horizontal	
4	95.48	-62.24	-60.33	-1.91	-13.00	-49.24	100	171 Peak	horizontal	
5	709.39	-68.00	-75.64	7.56	-13.00	-55.00	300	0 Peak	horizontal	
6	844.99	-67.28	-76.92	9.64	-13.00	-54.28	300	0 Peak	horizontal	
7	3815.00	-56.58	-54.58	-2.00	-13.00	-43.58	100	255 Peak	Horizontal	
8	4824.00	-39.28	-40.87	1.59	-13.00	-26.28	100	65 Peak	Horizontal	
9	7236.00	-49.98	-54.34	4.36	-13.00	-36.98	100	115 Peak	Horizontal	
10	7630.00	-45.54	-50.04	4.50	-13.00	-32.54	300	310 Peak	Horizontal	
11	9537.50	-45.31	-51.94	6.63	-13.00	-32.31	100	283 Peak	Horizontal	


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Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBm	dBm	dB	dBm	dB	cm	deg			
1	32.62	-53.33	-49.39	-3.94	-13.00	-40.33	100	255 Peak	vertical	
2	36.44	-55.29	-51.37	-3.92	-13.00	-42.29	100	329 Peak	vertical	
3	72.29	-56.96	-54.07	-2.89	-13.00	-43.96	100	56 Peak	vertical	
4	84.42	-55.99	-53.52	-2.47	-13.00	-42.99	100	358 Peak	vertical	
5	222.74	-76.90	-74.38	-2.52	-13.00	-63.90	260	0 Peak	vertical	
6	709.29	-69.26	-76.82	7.56	-13.00	-56.26	300	45 Peak	vertical	
7	3815.00	-55.60	-53.60	-2.00	-13.00	-42.60	100	105 Peak	Vertical	
8	4824.00	-43.56	-45.15	1.59	-13.00	-30.56	300	311 Peak	Vertical	
9	7236.00	-50.96	-55.32	4.36	-13.00	-37.96	400	299 Peak	Vertical	
10	7630.00	-44.76	-49.26	4.50	-13.00	-31.76	200	93 Peak	Vertical	
11	9537.50	-39.82	-46.45	6.63	-13.00	-26.82	200	99 Peak	Vertical	

LTE Band 26 (814-824MHz) + 802.11b
Horizontal
Vertical

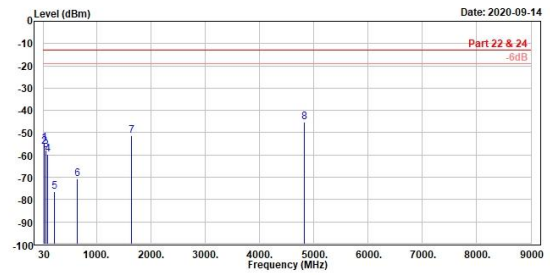

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Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBm	dBm	dB	dBm	cm	deg			
1	32.43	-56.53	-52.57	-3.96	-13.00	-43.53	200	313 Peak	horizontal
2	36.44	-58.08	-54.16	-3.92	-13.00	-45.08	200	155 Peak	horizontal
3	72.28	-59.71	-56.82	-2.89	-13.00	-46.71	100	156 Peak	horizontal
4	95.77	-60.20	-58.31	-1.89	-13.00	-47.20	100	360 Peak	horizontal
5	392.88	-74.43	-77.17	2.74	-13.00	-61.43	100	233 Peak	horizontal
6	763.83	-67.87	-76.66	8.79	-13.00	-54.87	300	73 Peak	horizontal
7	1638.00	-51.20	-42.50	-8.70	-13.00	-38.20	130	26 Peak	horizontal
8	4824.00	-40.97	-42.56	1.59	-13.00	-27.97	100	65 Peak	horizontal



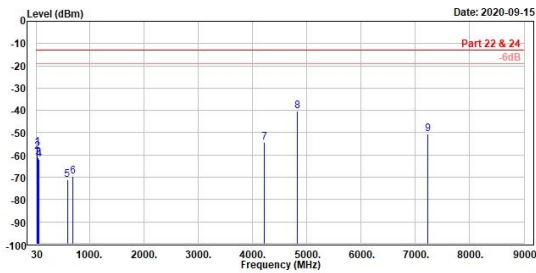
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Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBm	dBm	dB	dBm	cm	deg			
1	32.43	-54.92	-50.96	-3.96	-13.00	-41.92	100	296 Peak	vertical
2	39.51	-56.23	-52.23	-4.00	-13.00	-43.23	100	108 Peak	vertical
3	72.58	-57.72	-54.84	-2.88	-13.00	-44.72	100	130 Peak	vertical
4	95.77	-59.72	-57.83	-1.89	-13.00	-46.72	100	63 Peak	vertical
5	222.84	-76.60	-74.09	-2.51	-13.00	-63.60	140	360 Peak	vertical
6	642.75	-70.73	-76.85	6.12	-13.00	-57.73	200	179 Peak	vertical
7	1638.00	-51.38	-42.68	-8.70	-13.00	-38.38	300	126 Peak	vertical
8	4824.00	-45.24	-46.83	1.59	-13.00	-32.24	300	317 Peak	vertical

LTE Band 26 (824-849MHz) + 802.11b
Horizontal
Vertical

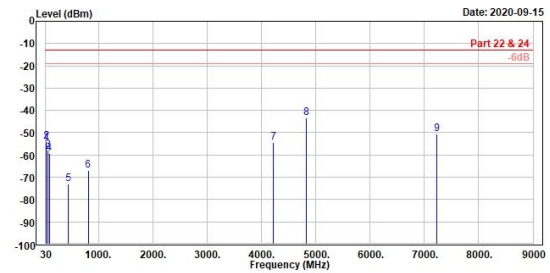

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Peak	Freq (MHz)	Level (dBm)	Read Level (dBm)	Factor (dB)	Limit (dB)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	32.13	-56.59	-52.60	-3.99	-13.00	-43.59	155	360	Peak	horizontal	
2	36.25	-58.48	-54.57	-3.91	-13.00	-45.48	170	360	Peak	horizontal	
3	50.95	-61.21	-58.37	-2.84	-13.00	-48.21	200	316	Peak	horizontal	
4	72.97	-62.01	-59.14	-2.87	-13.00	-49.01	100	131	Peak	horizontal	
5	592.12	-71.18	-76.66	5.48	-13.00	-58.18	100	21	Peak	horizontal	
6	690.09	-69.45	-76.54	7.09	-13.00	-56.45	200	77	Peak	horizontal	
7	4220.00	-54.43	-53.61	-0.82	-13.00	-41.43	200	246	Peak	Horizontal	
8	4824.00	-40.12	-41.71	1.59	-13.00	-27.12	100	69	Peak	Horizontal	
9	7236.00	-50.62	-54.98	4.36	-13.00	-37.62	300	162	Peak	Horizontal	



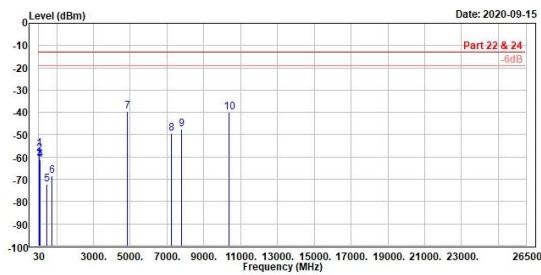
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Peak	Freq (MHz)	Level (dBm)	Read Level (dBm)	Factor (dB)	Limit (dB)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	32.23	-54.93	-50.95	-3.98	-13.00	-41.93	100	224	Peak	Vertical	
2	36.92	-54.11	-50.16	-3.95	-13.00	-41.11	100	285	Peak	Vertical	
3	72.68	-57.62	-54.74	-2.88	-13.00	-44.62	100	301	Peak	Vertical	
4	93.05	-59.34	-57.34	-2.00	-13.00	-46.34	100	59	Peak	Vertical	
5	443.12	-73.04	-76.28	3.24	-13.00	-60.04	200	299	Peak	Vertical	
6	610.66	-66.98	-76.28	9.30	-13.00	-53.98	200	276	Peak	Vertical	
7	4220.00	-54.34	-53.52	-0.82	-13.00	-41.34	200	278	Peak	Vertical	
8	4824.00	-43.33	-44.92	1.59	-13.00	-30.33	400	139	Peak	Vertical	
9	7236.00	-50.56	-54.92	4.36	-13.00	-37.56	200	269	Peak	Vertical	

LTE Band 38 + 802.11b
Horizontal
Vertical

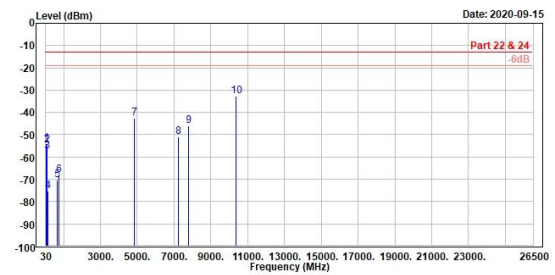

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Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBm	Level	Line	Limit	cm	deg			
1	32.52	-56.40	-52.45	-3.95	-13.00	-43.40	200	218 Peak	horizontal
2	36.25	-58.57	-54.66	-3.91	-13.00	-45.57	200	360 Peak	horizontal
3	50.56	-60.73	-57.86	-2.87	-13.00	-47.73	200	322 Peak	horizontal
4	96.15	-61.23	-59.35	-1.88	-13.00	-48.23	100	55 Peak	horizontal
5	488.33	-72.21	-75.80	3.59	-13.00	-59.21	200	205 Peak	horizontal
6	752.25	-68.35	-77.13	8.78	-13.00	-55.35	200	315 Peak	horizontal
7	4824.00	-39.58	-41.17	1.59	-13.00	-26.58	100	65 Peak	Horizontal
8	7236.00	-49.43	-53.79	4.36	-13.00	-36.43	100	122 Peak	Horizontal
9	7785.00	-47.64	-52.28	4.64	-13.00	-34.64	300	134 Peak	Horizontal
10	10380.00	-39.92	-48.82	8.90	-13.00	-26.92	100	148 Peak	Horizontal



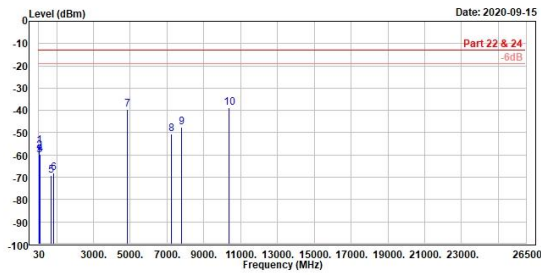
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Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBm	Level	Line	Limit	cm	deg			
1	38.44	-54.07	-50.15	-3.92	-13.00	-41.07	100	117 Peak	vertical
2	84.81	-54.70	-52.25	-2.45	-13.00	-41.70	100	0 Peak	vertical
3	95.57	-57.38	-55.48	-1.90	-13.00	-44.38	100	334 Peak	vertical
4	168.03	-75.17	-75.93	0.76	-13.00	-62.17	100	304 Peak	vertical
5	634.80	-70.29	-76.32	6.03	-13.00	-57.29	100	298 Peak	vertical
6	759.34	-68.24	-76.99	8.75	-13.00	-55.24	200	257 Peak	vertical
7	4824.00	-42.59	-44.18	1.59	-13.00	-29.59	400	314 Peak	Vertical
8	7236.00	-50.87	-55.23	4.36	-13.00	-37.87	100	248 Peak	Vertical
9	7785.00	-45.90	-50.54	4.64	-13.00	-32.90	200	88 Peak	Vertical
10	10380.00	-32.74	-41.64	8.90	-13.00	-19.74	100	91 Peak	Vertical

LTE Band 41 + 802.11b
Horizontal
Vertical

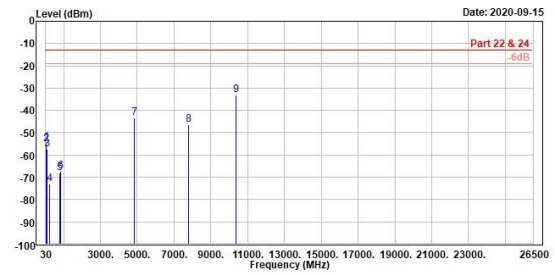

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Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBm	dBm	dB	dBm	dB	cm	deg			
1	32.43	-56.04	-52.00	-3.96	-13.00	-43.04	200	125 Peak	horizontal	
2	36.83	-58.27	-54.32	-3.95	-13.00	-45.27	200	168 Peak	horizontal	
3	71.52	-59.99	-57.09	-2.90	-13.00	-46.99	100	193 Peak	horizontal	
4	85.00	-59.62	-57.18	-2.44	-13.00	-46.62	139	360 Peak	horizontal	
5	709.58	-69.25	-76.82	7.57	-13.00	-56.25	100	13 Peak	horizontal	
6	823.46	-68.19	-77.61	9.42	-13.00	-55.19	300	19 Peak	horizontal	
7	4824.00	-39.63	-41.22	1.59	-13.00	-26.63	100	69 Peak	Horizontal	
8	7236.00	-50.57	-54.93	4.36	-13.00	-37.57	300	151 Peak	Horizontal	
9	7779.00	-47.69	-52.32	4.63	-13.00	-34.69	300	48 Peak	Horizontal	
10	10372.00	-38.77	-47.64	8.87	-13.00	-25.77	100	84 Peak	Horizontal	



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Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBm	dBm	dB	dBm	dB	cm	deg			
1	32.43	-54.25	-50.29	-3.96	-13.00	-41.25	100	230 Peak	vertical	
2	36.92	-55.31	-51.36	-3.95	-13.00	-42.31	100	202 Peak	vertical	
3	84.81	-57.39	-54.94	-2.45	-13.00	-44.39	100	81 Peak	vertical	
4	222.74	-73.08	-70.56	-2.52	-13.00	-60.08	279	0 Peak	vertical	
5	774.09	-68.10	-77.01	8.91	-13.00	-55.10	200	254 Peak	vertical	
6	852.27	-67.48	-77.21	9.73	-13.00	-54.48	200	40 Peak	vertical	
7	4824.00	-43.32	-44.91	1.59	-13.00	-30.32	400	308 Peak	Vertical	
8	7779.00	-46.35	-50.98	4.63	-13.00	-33.35	100	70 Peak	Vertical	
9	10372.00	-32.98	-41.85	8.87	-13.00	-19.98	100	104 Peak	Vertical	