

**ELECTROMAGNETIC EMISSIONS
COMPLIANCE TEST REPORT**

Applicant: Askey computer corp.
10F, No. 119, JIANKANG RD. ZHONGHE DIST. NEW TAIPEI
CITY Taiwan 23585

Manufacturer: Askey computer corp.
10F, No. 119, JIANKANG RD. ZHONGHE DIST. NEW TAIPEI
CITY Taiwan 23585

Product Name: Connected DashCAM

Brand Name: ASKEY

Model No.: CDR9030

Model Difference: N/A

Report Number: TERF2405001364E2

FCC ID H8NCDR9030

Date of EUT Received: January 31, 2024

Date of Test: May 14, 2024 ~ May 20, 2024

Issue Date: June 13, 2024

Approved By

Aken Huang

Aken Huang

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 and the energy emitted by the sample EUT comply with FCC rule part §15.247 and §15.407, 22H & 24E & 27 C & 90S.

The results of this report relate only to the sample identified in this report.

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TERF2405001364E2	00	Original.	June 6, 2024	Karen Huang	
TERF2405001364E2	01	Update applicant's address	June 13, 2024	Karen Huang	*

Note:

- 1、The remark "*" indicates modification of the report upon requests from certification body.

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1 GENERAL INFORMATION

1.1 Product Description

Product Name:	Connected DashCAM
Brand Name:	ASKEY
Model No.:	CDR9030
Model Difference:	N/A
Hardware Version:	DV rev5
Firmware Version:	sdm660_64-userdebug 9 1.0.0.240430240430.0407 test-keys
EUT Series No.:	E1F3P000605
Power Supply:	12Vdc from car charger; 3.7Vdc from rechargeable Lithium-ion battery
Test Software (Name/Version)	QRCT v4.0.00161.0

1.2 Modulation & Data Rate

BT/WLAN

Modulation type:	BT: GFSK + π /4DQPSK + 8DPSK BLE: GFSK WLAN: CCK, DQPSK, DBPSK for DSSS in 802.11b 64QAM, 16QAM, QPSK, BPSK for OFDM in 802.11g, 11n
Data Rate:	802.11b: 1/2/5.5/11 Mbps 802.11g: 6/9/12/18/24/36/48/54 Mbps 802.11n_HT20: up to 72.2Mbps 802.11n_HT40: up to 150Mbps

Modulation type:	64QAM, 16QAM, QPSK, BPSK for OFDM in 802.11a, 11n 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM in 802.11ac
Transition Rate:	802.11 a: 6 - 54 Mbps 802.11 n_HT20: up to 72.2 Mbps 802.11 n_HT40: up to 150 Mbps 802.11 ac_VHT20: up to 86.7 Mbps 802.11 ac_VHT40: up to 200 Mbps 802.11 ac_VHT80: up to 433.3 Mbps

WWAN

Modulation type:	QPSK / 16QAM / 64QAM
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1.3 Antenna Designation

Antenna Type	Freq.	Peak Antenna Gain (dBi)
Embedded Antenna	2.4GHz	0.22

Antenna Type	Freq. (MHz)	Peak Antenna Gain (dBi)
Embedded Antenna	5150~5250	3.07
	5250~5350	2.44
	5470~5725	3.17
	5725~5850	2.67

Type	Modulation	Frequency (MHz)	Peak Antenna Gain (dBi)
			Ant0
Embedded	LTE-Band 2	1850 ~ 1910	0.99
	LTE-Band 4	1710 ~ 1755	1.14
	LTE-Band 5	824 ~ 849	-0.63
	LTE-Band 12	699 ~ 716	-2.4
	LTE-Band 13	777 ~ 787	-0.99
	LTE-Band 17	704 ~ 716	-2.4
	LTE-Band 26	824 ~ 849	-0.04
	LTE-Band 26 Part 90	814 ~ 824	-0.63

Note: Antenna information is provided by the applicant.

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1.4 Test Methodology of Applied Standards

FCC Part 15, Subpart E §15.407

FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

ANSI C63.10:2013

FCC 47 CFR Part 2, 22H, 24E, 27C, Part 90.

ANSI C63.26-2015

1.5 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designation number	IC CAB identifier
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan.	SAC 1	TW0027	TW3702
		SAC 2		
		SAC 3		
		Conduction 1		
		Conducted 1		
		Conducted 2		
		Conducted 3		
		Conducted 4		
		Conducted 5		
		Conducted 6		
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conduction C	TW0028	
		SAC C		
		SAC D		
		SAC G		
		Conducted A		
		Conducted B		
		Conducted C		
		Conducted D		
		Conducted E		
		Conducted F		
Conducted G				
Note: Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.				

1.6 Special Accessories

There are no special accessories used while test was conducted.

1.7 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

2.3 Test Procedure

2.3.1 Radiated Emissions

The EUT is placed on a turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

2.4 Measurement Results Explanation Example

2.4.1 Radiated Emission Test Sites For Measurements From 9 kHz To 30 MHz

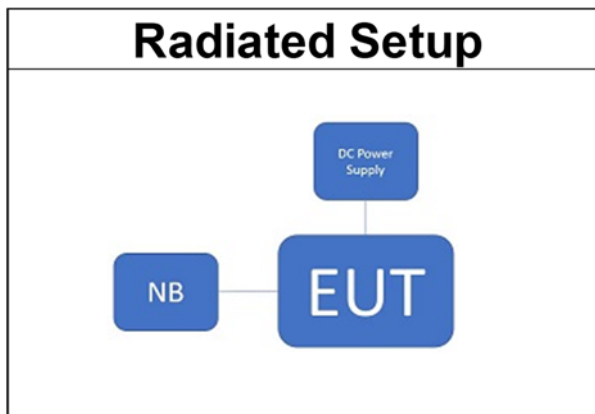
Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

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2.5 Test Configuration



2.6 Control Unit(s)

Radiated Emission Test Site: SAC D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	Lenovo	L480	P0002332	N/A	N/A
USB Cable	MI	SJX10ZM	N/A	N/A	N/A

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3 SUMMARY OF TEST RESULT

FCC Rules	Description Of Test	Result
§2.1053 §24.238(a)(b) §27.53(h)(1)&(3) §22.917(a)(b) §27.53(g) §27.53(c)(2)~(6) §27.53 (f) §90.691(a)	Field Strength of Spurious Radiation	Compliant
§15.247(d) §15.209	Undesirable Radiated Emissions	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. Test program used to control the EUT for staying in continuous transmitting mode is programmed.
3. Investigation has been done on all the possible configurations for searching the worst case. The given UE is pre-scanned among below modes.

Test mode

Final test modes are considering the modulation and worse data rate as below table.

Combination1
802.11b+Bluetooth BR+LTE B2

Combination2
802.11a+Bluetooth BR+LTE B2

Note:

The field strength of radiated emission was measured as the EUT positioned in different orthogonal planes (E1/E2/H) based on actual usage of the EUT to pre-scan the emissions for determining the worst case scenario.

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
Conducted emission measurement	+/- 0.77 dB
Temperature	+/- 0.6 °C
Humidity	+/- 3 %
DC / AC Power Source	+/- 1 %

Radiated Spurious Emission Measurement Uncertainty			
Polarization: Vertical	+/-	1.89 dB	9kHz~30MHz
	+/-	4.15 dB	30MHz - 1000MHz
	+/-	3.43 dB	1GHz - 18GHz
	+/-	3.86 dB	18GHz - 40GHz
Polarization: Horizontal	+/-	1.89 dB	9kHz~30MHz
	+/-	4.02 dB	30MHz - 1000MHz
	+/-	3.43 dB	1GHz - 18GHz
	+/-	3.86 dB	18GHz - 40GHz
Radiated Spurious Emission	+/-	2 dB	33GHz-50GHz
	+/-	1.59 dB	50GHz-60GHz
	+/-	1.7 dB	60GHz-90GHz
	+/-	1.64 dB	90GHz-140GHz
	+/-	3.83 dB	140GHz-220GHz

Note:

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
2. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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6 UNDESIRABLE RADIATED EMISSION MEASUREMENT

6.1 Standard Applicable

According to FCC §2.1053,

FCC §22.917(a), §24.238(a), §27.53(h), §90.543(e)(3)

Out of band emissions. 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.

FCC §27.53(g)

Compliance for operations in the 600 MHz, 698-746 MHz, 746-758 MHz and the 776-788 MHz band with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

- (2) On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB;
- (3) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $76 + 10 \log(P)$ dB in a 6.25 kHz band segment, for base and fixed stations;
- (4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $65 + 10 \log(P)$ dB in a 6.25 kHz band segment, for mobile and portable stations;

FCC §27.53(h)(1)

(h) *AWS emission limits*—(1) *General protection levels*. Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB.

§90.691 Emission mask requirements for EA-based systems

(a) Out-of-band emission requirement shall apply only to the “outer” channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

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6.1.1 5150~5850 MHz

Applicable to	Operation Freq. (MHz)	EIRP		Field Strength @ 3m (dBμV/m)
		Freq. (MHz)	Limits (dBm/MHz)	
15.407(b)(1) RSS-247 §6.2.1.2	5150~5250	$f \leq 5150$ $f \geq 5350$	PK: -27	PK: 68.2
15.407(b)(2) RSS-247 §6.2.2.2	5250~5350			
15.407(b)(3) RSS-247 §6.2.3.2	5475~5725	$f \leq 5470$ $f \geq 5725$		
15.407(b)(4)(i) RSS-247 §6.2.4.2	5725~5850	at 75 MHz or more above or below the band edge	PK:-27	PK: 68.2
		increasing linearly from 75~25MHz above or below the band edge	PK:-27~10	PK: 68.2~105.2
		increasing linearly from 25~5MHz above or below the band edge	PK:10~15.6	PK: 105.2~110.8
		increasing linearly from 5~0 MHz above or below the band edge	PK: 15.6~27	PK:110.8~122.2

6.1.2 Duty Cycle Correction Factor

According to 15. 35(c), the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value. The exact method of calculating the average field strength shall be submitted with any application for certification.

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6.1.3 Spurious Emission for Part 15C

Unwanted spurious emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table:

Frequency (MHz)	Field strength (microvolts/meter)	Distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Note:

1. The lower limit shall apply at the transition frequencies.

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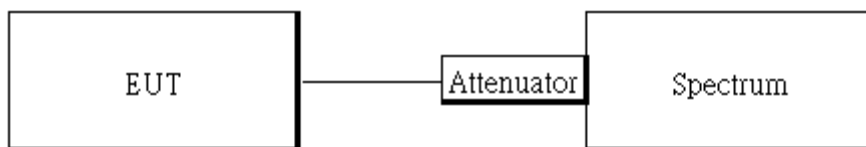
6.2 Measurement Equipment Used:

Radiated Emission Test Site: SAC D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	SCHWARZBECK	VULB 9168	9168-300	11/02/2023	11/01/2024
Broadband Antenna	SCHWARZBECK	VULB 9168	9168-617	12/14/2023	12/13/2024
Horn Antenna	Schwarzbeck	BBHA9170	184	12/28/2023	12/27/2024
Horn Antenna	Schwarzbeck	BBHA9170	185	08/21/2023	08/20/2024
Horn Antenna	Schwarzbeck	BBHA9120D	1187	01/24/2024	01/23/2025
Horn Antenna	Schwarzbeck	BBHA9120D	1341	05/26/2023	05/25/2024
3m Site NSA	SGS	966 chamber D	N/A	04/30/2024	04/29/2025
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120290	04/10/2024	04/09/2025
Radio Communication Analyzer	Anritsu	MT8820C	6201107337	07/14/2023	07/13/2024
Bluetooth Test Set	Anritsu	MT8852B	1329002	04/12/2024	04/11/2025
DC Power Supply	Gwinstek	SPS-3610	GEW902165	01/17/2024	01/16/2025
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R
Pre-Amplifier	EMC Instruments	EMC330	980096	11/15/2023	11/14/2024
Pre-Amplifier	EMC Instruments	EMC118A45SE	980789	11/15/2023	11/14/2024
Pre-Amplifier	EMC Instruments	EMC18405SEE	980881	11/15/2023	11/14/2024
Pre-Amplifier	EMC Instruments	EMC9135	980234	11/15/2023	11/14/2024
Pre-Amplifier	EMC Instruments	EMC12630SE	980273	11/15/2023	11/14/2024
Pre-Amplifier	EMC Instruments	EMC184945SEE	980938	11/15/2023	11/14/2024
Coaxial Cable	Huber+Suhner	RG 214/U	W21.01	11/15/2023	11/14/2024
Coaxial Cable	Huber+Suhner	EMC106-SM-SM-7200	150703	11/15/2023	11/14/2024
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	MY17413/4	11/15/2023	11/14/2024

NOTE: N.C.R refers to Not Calibrated Required.

6.3 Test Setup

6.3.1 Duty Cycle Correction Factor

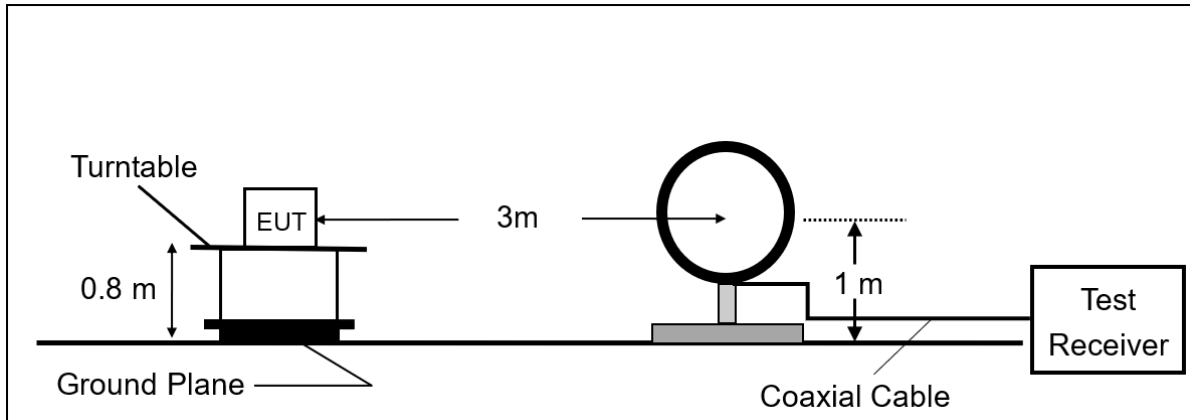


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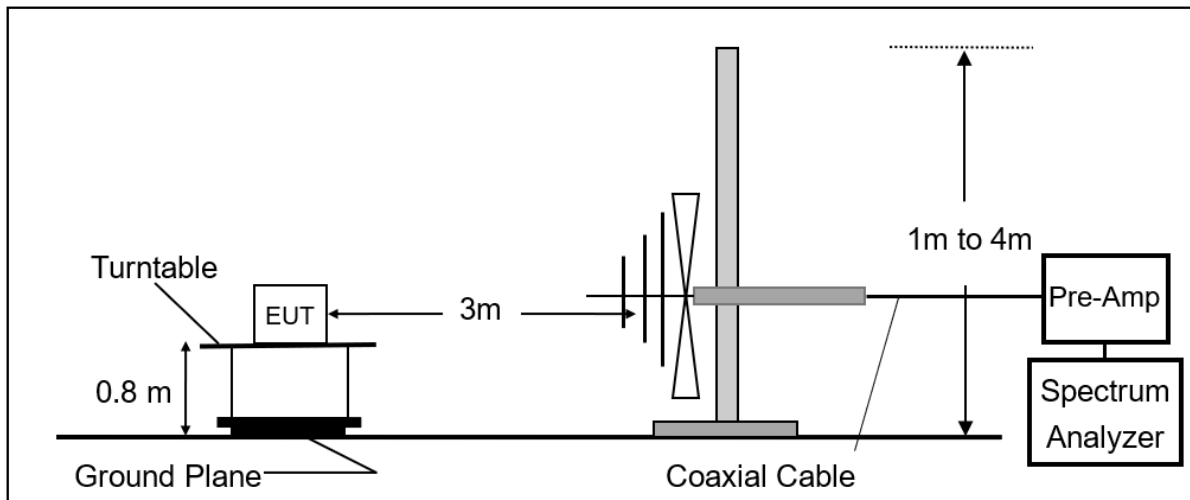
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6.3.2 Radiated Emission

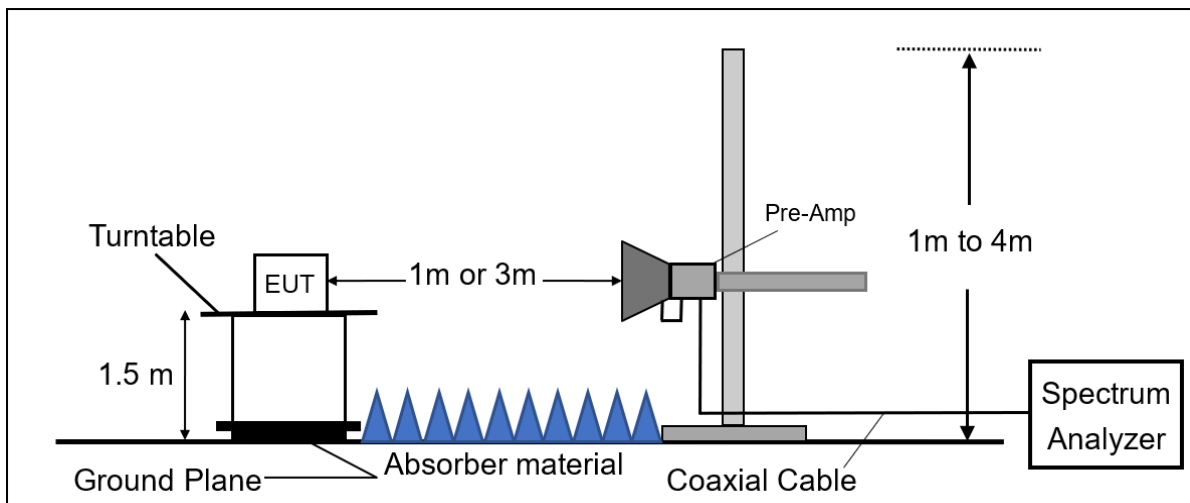
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



(B) Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz



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



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6.4 Measurement Procedure

For WWAN

The EUT was placed on a non-conductive; the measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

The frequency range up to tenth harmonic was investigated for each of three fundamental frequencies (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.

The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

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For Part 15C

Duty Cycle Correction Factor

1. Adjust and configure any EUT switches, controls, or input data streams to ensure that the EUT is transmitting or encoded to obtain the “worst-case” pulse ON time.
2. The testing follows ANSI C63.10:2013.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
4. Set center frequency of spectrum analyzer = operating frequency.
5. Set the spectrum analyzer as RBW, VBW=1MHz, 3MHz, Span = 0Hz , Detector = Peak, Adjust Sweep=100ms.
6. Repeat above procedures until all frequency of the interest measured were complete.

Radiated Emission

1. The testing follows FCC KDB 789033 D02.
2. The EUT was placed on a turn table with 0.8m for frequency< 1GHz and 1.5m for frequency> 1GHz above ground plane.
3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
5. Set the spectrum analyzer as RBW=100 kHz and VBW=300 kHz for Peak Detector (PK) at frequency between 30MHz and 1 GHz
6. Use receiver mode as RBW=120 kHz for Quasi-peak (QP) at frequency between 30MHz and 1 GHz.
7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Maximum Emission Measurements at frequency above 1 GHz.
8. According to C63.10:2013 Section 7.5 Procedure for determining the average value of pulsed emissions with duty cycle correction factor $20 \log (T_{on}/100ms)$.
9. When measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made “while keeping the antenna in the ‘cone of radiation’ from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.” is still within the 3dB illumination BW of the measurement antenna.
10. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
11. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
12. Repeat above procedures until all frequency measured were complete.

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6.5 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where *FS* = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

The limit of the emission level is expressed in dB μ V/m, which converts $20 \cdot \log(\mu\text{V/m})$

Actual FS(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

6.6 Test Results of Radiated Spurious Emissions from 9 kHz to 30 MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) was not reported.

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6.7 Radiated Spurious Emission Measurement Result

6.7.1 Duty Cycle Correction Factor

Bluetooth 1M

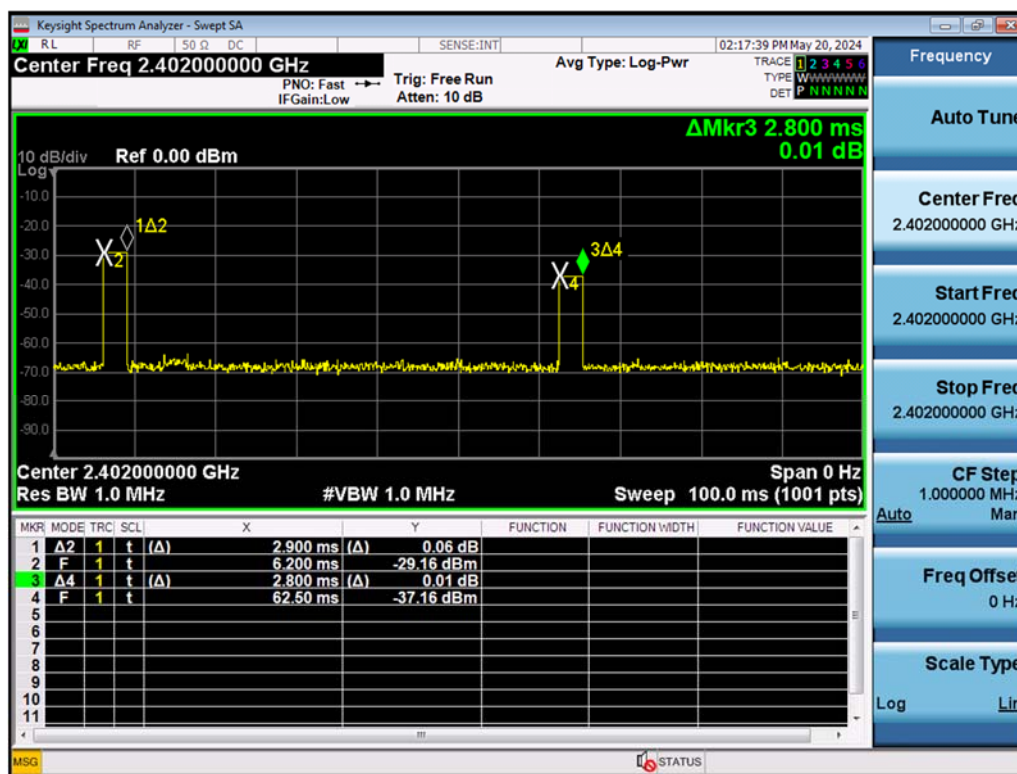
Time ON of 100ms: 5.800 ms

$$\text{Duty Cycle} = 5.8\text{ms} / 100\text{ms} = 0.058$$

Duty Cycle correction factor = $20 \text{ LOG } 0.058 = -24.73 \text{ dB}$

6.7.2 Duty Cycle test plot

BR



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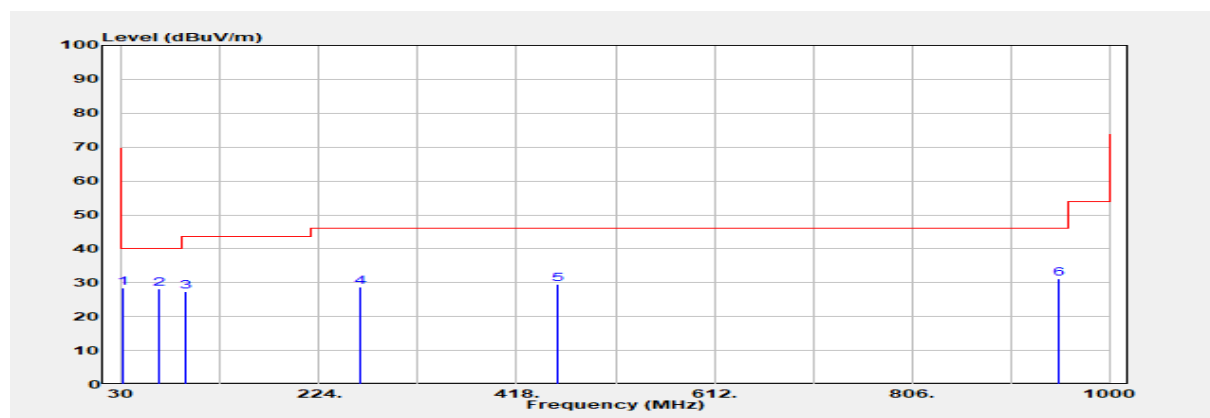
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6.7.3 Spurious Emission

Report Number :TERF2405001364E2
 Operation Mode :Co_location
 Test Frequency :2402/2412/1880 MHz
 Test Mode :Tx
 EUT Pol :H Plane
 Note :BR/802.11b/LTE B2

Test Site :SAC D
 Test Date :2024-05-20
 Temp./Humi. :22.3 °C/64%
 Antenna Pol. :Vertical
 Engineer :Sam Huang



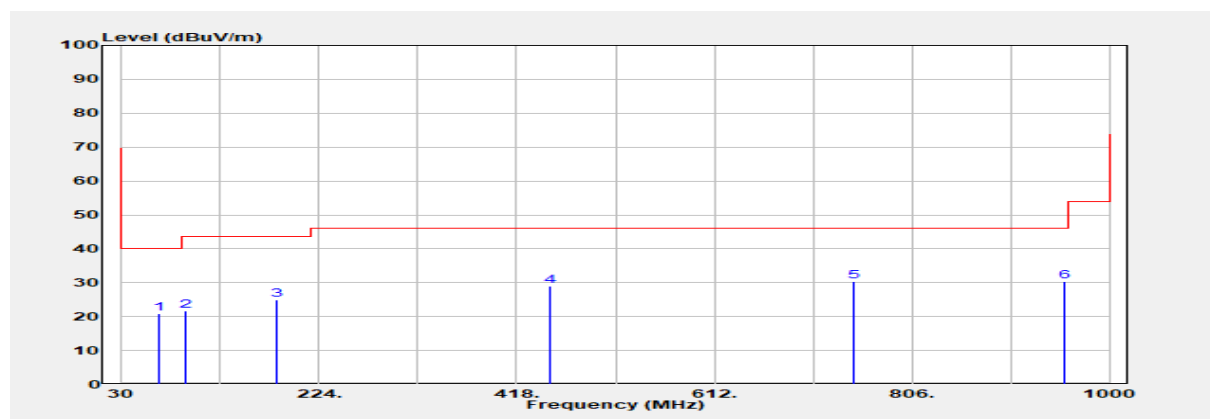
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
31.940	Peak	47.15	-18.69	28.46	40.00	-11.54
66.860	Peak	47.10	-18.87	28.23	40.00	-11.77
93.050	Peak	49.95	-22.61	27.34	43.50	-16.16
263.770	Peak	45.66	-16.96	28.71	46.00	-17.29
458.740	Peak	41.28	-11.71	29.57	46.00	-16.43
949.560	Peak	35.29	-4.14	31.14	46.00	-14.86

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Report Number :TERF2405001364E2
Operation Mode :Co_location
Test Frequency :2402/2412/1880 MHz
Test Mode :Tx
EUT Pol :H Plane
Note :BR/802.11b/LTE B2

Test Site :SAC D
Test Date :2024-05-20
Temp./Humi. :22.3 °C/64%
Antenna Pol. :Horizontal
Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
66.860	Peak	39.77	-18.87	20.90	40.00	-19.10
93.050	Peak	44.26	-22.61	21.65	43.50	-21.85
182.290	Peak	43.42	-18.37	25.05	43.50	-18.45
450.010	Peak	40.84	-11.83	29.01	46.00	-16.99
749.740	Peak	37.00	-6.67	30.33	46.00	-15.67
955.380	Peak	34.45	-4.04	30.42	46.00	-15.58

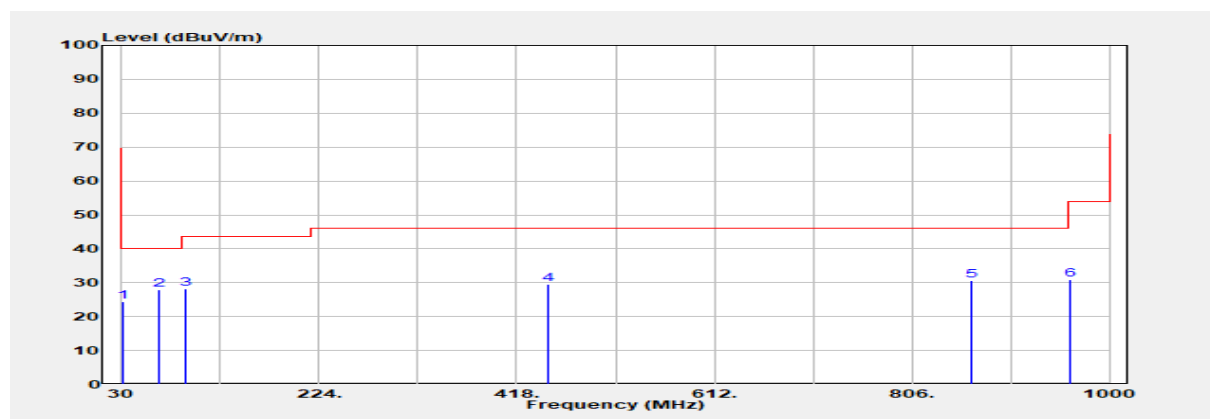
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Report Number :TERF2405001364E2
Operation Mode :Co_location
Test Frequency :2402/5180/1880 MHz
Test Mode :Tx
EUT Pol :H Plane
Note :BR/802.11a/LTE B2

Test Site :SAC D
Test Date :2024-05-20
Temp./Humi. :22.3 °C/64%
Antenna Pol. :Vertical
Engineer :Sam Huang



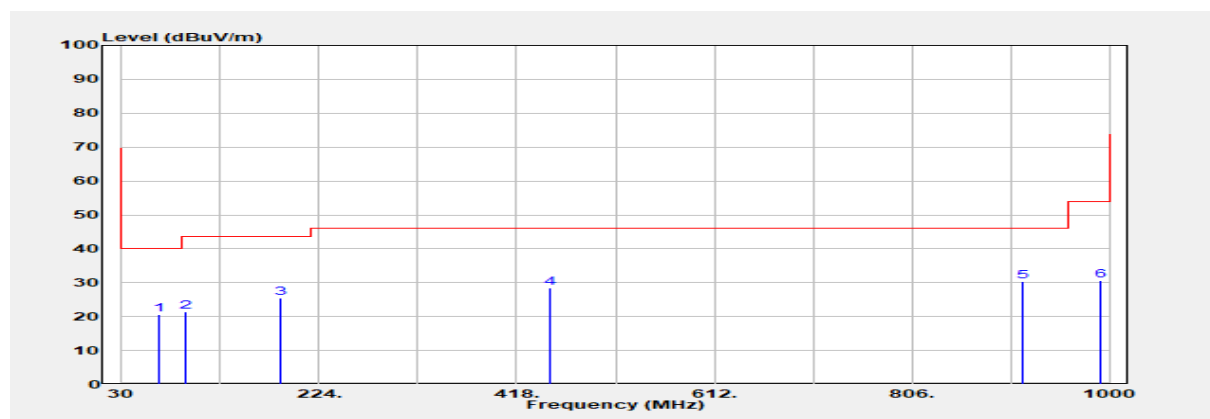
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
31.940	Peak	42.99	-18.69	24.30	40.00	-15.70
66.860	Peak	46.91	-18.87	28.04	40.00	-11.96
93.050	Peak	50.77	-22.61	28.16	43.50	-15.34
449.040	Peak	41.37	-11.85	29.52	46.00	-16.48
865.170	Peak	36.65	-5.95	30.70	46.00	-15.30
962.170	Peak	34.82	-4.03	30.79	54.00	-23.21

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Report Number :TERF2405001364E2
Operation Mode :Co_location
Test Frequency :2402/5180/1880 MHz
Test Mode :Tx
EUT Pol :H Plane
Note :BR/802.11a/LTE B2

Test Site :SAC D
Test Date :2024-05-20
Temp./Humi. :22.3 °C/64%
Antenna Pol. :Horizontal
Engineer :Sam Huang



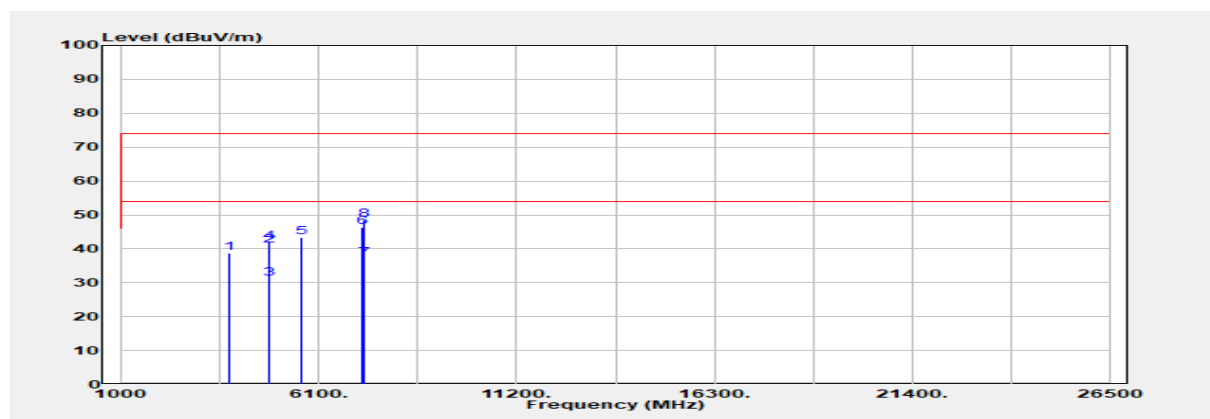
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
66.860	Peak	39.59	-18.87	20.71	40.00	-19.29
93.050	Peak	43.94	-22.61	21.34	43.50	-22.16
185.200	Peak	44.14	-18.66	25.47	43.50	-18.03
450.010	Peak	40.42	-11.83	28.59	46.00	-17.41
915.610	Peak	35.09	-4.63	30.45	46.00	-15.55
991.270	Peak	34.84	-4.09	30.75	54.00	-23.25

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Report Number :TERF2405001364E2
Operation Mode :Co_location
Test Frequency :2402/2412/1880 MHz
Test Mode :Tx
EUT Pol :H Plane
Note :BR/802.11b/LTE B2

Test Site :SAC D
Test Date :2024-05-20
Temp./Humi. :22.3 °C/64%
Antenna Pol. :Vertical
Engineer :Sam Huang



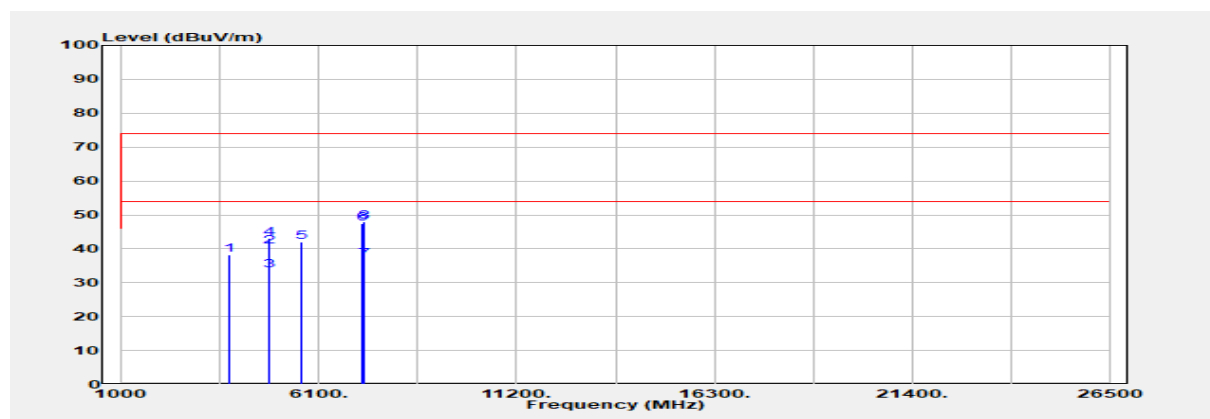
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
3760.000	Peak	40.59	-1.85	38.74	74.00	-35.26
4804.000	Peak	39.91	0.98	40.89	74.00	-33.11
4804.000	Average	40.89	-24.73	16.16	54.00	-37.84
4824.000	Average	29.97	1.10	31.07	54.00	-22.93
4824.000	Peak	40.95	1.10	42.04	74.00	-31.96
5640.000	Peak	40.44	2.99	43.43	74.00	-30.57
7206.000	Peak	38.24	8.13	46.36	74.00	-27.64
7206.000	Average	46.36	-24.73	21.63	54.00	-32.37
7236.000	Average	28.59	8.46	37.05	54.00	-16.95
7236.000	Peak	40.03	8.46	48.49	74.00	-25.51

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Report Number :TERF2405001364E2
Operation Mode :Co_location
Test Frequency :2402/2412/1880 MHz
Test Mode :Tx
EUT Pol :H Plane
Note :BR/802.11b/LTE B2

Test Site :SAC D
Test Date :2024-05-20
Temp./Humi. :22.3 °C/64%
Antenna Pol. :Horizontal
Engineer :Sam Huang



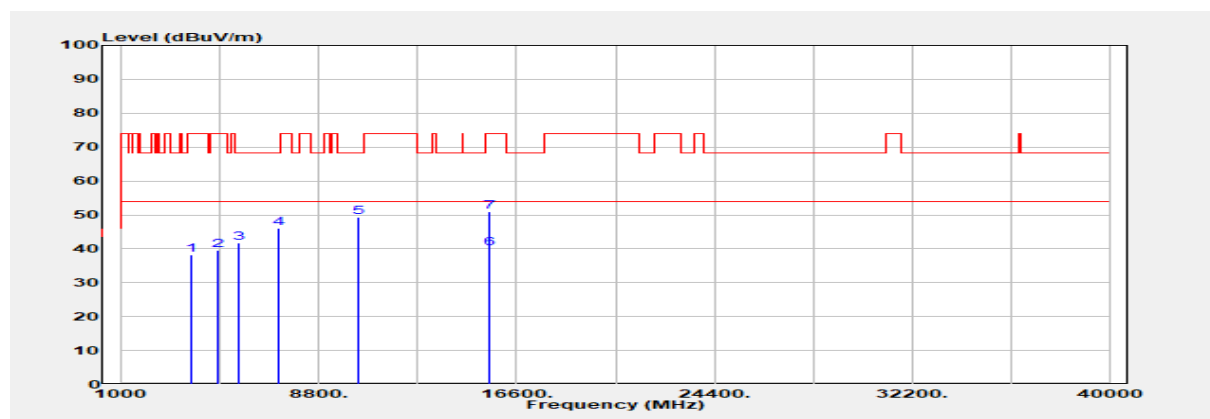
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
3760.000	Peak	39.99	-1.85	38.15	74.00	-35.85
4804.000	Peak	39.58	0.98	40.56	74.00	-33.44
4804.000	Average	40.56	-24.73	15.83	54.00	-38.17
4824.000	Average	32.41	1.10	33.51	54.00	-20.49
4824.000	Peak	41.91	1.10	43.01	74.00	-30.99
5640.000	Peak	39.10	2.99	42.09	74.00	-31.91
7206.000	Peak	39.18	8.13	47.31	74.00	-26.69
7206.000	Average	47.31	-24.73	22.58	54.00	-31.42
7236.000	Average	28.40	8.46	36.86	54.00	-17.14
7236.000	Peak	39.43	8.46	47.90	74.00	-26.10

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Report Number :TERF2405001364E2
Operation Mode :Co_location
Test Frequency :2402/5180/1880 MHz
Test Mode :Tx
EUT Pol :H Plane
Note :BR/802.11a/LTE B2

Test Site :SAC D
Test Date :2024-05-20
Temp./Humi. :22.3 °C/64%
Antenna Pol. :Vertical
Engineer :Sam Huang



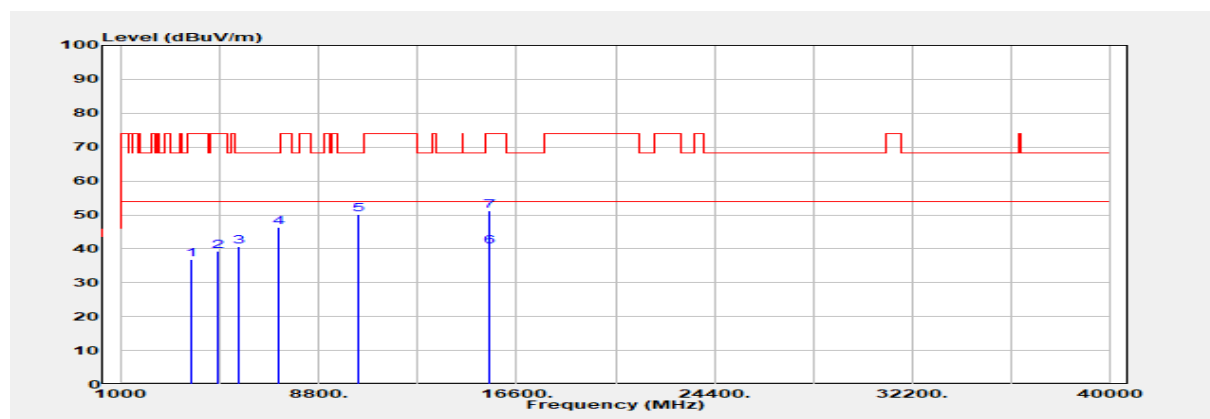
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
3760.000	Peak	39.93	-1.85	38.08	74.00	-35.92
4804.000	Peak	38.71	0.98	39.69	74.00	-34.31
4804.000	Average	39.69	-24.73	14.96	54.00	-39.04
5640.000	Peak	38.73	2.99	41.72	68.20	-26.48
7206.000	Peak	37.97	8.13	46.10	68.20	-22.10
7206.000	Average	46.10	-24.73	21.37	54.00	-32.63
10360.000	Peak	36.41	12.89	49.30	68.20	-18.90
15540.000	Average	25.76	14.32	40.08	54.00	-13.92
15540.000	Peak	36.60	14.32	50.92	74.00	-23.08

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Report Number :TERF2405001364E2
Operation Mode :Co_location
Test Frequency :2402/5180/1880 MHz
Test Mode :Tx
EUT Pol :H Plane
Note :BR/802.11a/LTE B2

Test Site :SAC D
Test Date :2024-05-20
Temp./Humi. :22.3 °C/64%
Antenna Pol. :Horizontal
Engineer :Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
3760.000	Peak	38.57	-1.85	36.72	74.00	-37.28
4804.000	Peak	38.29	0.98	39.27	74.00	-34.73
4804.000	Average	39.27	-24.73	14.54	54.00	-39.46
5640.000	Peak	37.72	2.99	40.71	68.20	-27.49
7206.000	Peak	38.30	8.13	46.43	68.20	-21.77
7206.000	Average	46.43	-24.73	21.70	54.00	-32.30
10360.000	Peak	37.17	12.89	50.06	68.20	-18.14
15540.000	Average	26.20	14.32	40.52	54.00	-13.48
15540.000	Peak	37.01	14.32	51.33	74.00	-22.67

~ End of Report ~

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