

est CH6: 243/MHZ			
Int Spectrum Analyzer - Swept SA RF 50 & DC SENSE:INT Inter Freq 2.437000000 GHz A DNO MOLE Trig: Free Run A	ALIGNAUTO 09:10:47 PM 3/18, 2022 VI Type: Log-Pwr TRACE 12 3:4 H // valiold - 10/10 Type	Agtiont Spectrum Analyzer - Swept SA	ALIGNAUTO 09:13:11 PM Jul 8, 2022 Avg Type: Log-Pwr Avg Hold: 10/10 Type Museum
IFGain:Low #Atten: 20 dB Ref Offset 10.5 dB	Mkr1 2.438 29 GHz Auto Tune	IFGain:Low #Atten: 20 dB	Mkr1 3.772 GHz
3B/div Ref 20.00 dBm	Center Freq	10 dB/div Ref 20.00 dBm	-52.673 dBm
D	2.43700000 GHz	-10.0	
	2.422000000 GHz		
antippener	Stop Freq		and a grap way and the providence of the provide
	2.452000000 GHz	70.0	
nter 2.43700 GHz es BW 100 kHz #VBW 300 kHz	Span 30.00 MHz CF Step Sweep 2.933 ms (1001 pts) 3.000000 MHz Auto Man	Start 1.000 GHz #Res BW 100 kHz #VBW 300 kHz	Stop 10.000 GHz Sweep 860.1 ms (1001 pts) Mkr-
N 1 f 2.438 29 GHz -2.650 dBm	Fine Tork WILLIN FUNCTION VALUE	Image Image <th< td=""><td>INCTION FORCION WIDTH FUNCTION VALUE</td></th<>	INCTION FORCION WIDTH FUNCTION VALUE
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rt Spectrum Analyzer - Sweet SA Ref 1 800 CC - State - Spectrum Analyzer - Sweet SA Ker 1 878.7200000000 MHz PND; Fast - Trig: Free Run A PND; Fast - Trig: Free Run A Ref Offeet 10.5 dB Blow Ref 20.00 dBm	ALIONAITO 09:12:05 PM M18, 002 TYPE: Leg Avr 10:00 12:05 PM M18, 002 Yg Type: Leg Avr 10:00 12:05 PM M18, 002 Mkrt 875,72 MHz -60.602 dBm Next Pk Right	Agtherit Spectrum Analyzer - Swigt SA Description of the state of the	ALSMATTO (0514220M M 8) 202 ISTATUS ISTATUS Arg Type: Leg-Pur Arg Type: Leg-Pur THCK II 23 arg Type: MKr1 25.792 GHz -51.140 dBm Next Pk Ri
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FCC ID: LTQVTSEMNAR

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'est CH6: 2437MHz		Adlent Spectrum Analyzer - Swept SA
Professional Contraction Contr	ALIGNAUTO 11-40:12 PM JJ 85, 2022 Avg Type: Log-Pwr TRACE 12 3 43 5 Avg[Hold>10/10 Trace Ber Database Mikr1 2:432 02 GHz	International and the second
	-5.677 dBm Ce 2.4370	10 dBdiv Ref 20.00 dBm -52.208 dBm Inter Freq 100 Next P
		Start Freq 400
	2.4670	Stop Freq 00000 GHz
es BW 100 kHz #VBW 300 kHz R MODE TRC SCL 2 4000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Span 60.00 MHz Sweep 5.800 ms (1001 pts) Auto	CF Step J Start 1.000 GHz Stop 10.000 GHz Stop 10.000 GHz Stop 10.000 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 86.01 ms (1001 pts) Man Har Hope TRC 30, X V RACTON RACTON WOTH R
N 1 T 2/432/02/5HZ -0.6// 0Bm	Fr	eq Offset 0 Hz 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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6. BAND EDGE COMPLIANCE TEST

6.1.Test Equipments

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	PXA Signal Analyzer	Agilent	N9030A	MY51380221	Apr.07,22	1 Year
2.	Amplifier	Agilent	8449B	3008A00863	Apr.06,22	1 Year
3.	Horn Antenna	ETC	MCTD 1209	DRH15F03006	Jul.26,21	1 Year
4.	RF Cable	HUBER+SUHN ER	SUCOFLEX-106	505238/6	Apr.06,22	1 Year

6.2.Limit

All the lower and upper band-edges emissions appearing within 2310MHz to 2390MHz and 2483.5MHz to 2500MHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400MHz to 2483.5MHz shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

6.3.Test Procedure

- 1. The EUT is placed on a turntable, which is 1.5m above the ground plane and worked at highest radiated power.
- 2. The turntable was rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
- 4. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:

(a) PEAK: RBW=1MHz; VBW=3MHz; Sweep=AUTO(b) AVERAGE: RBW=1MHz; VBW=10Hz; Sweep=AUTO

6.4.Test Results

Pass (The testing data was attached in the next pages.)































Data: 11 File: F:\2022 Report\北京摩创\A1Z2206116\A1Z2206116-2.4G.EM6 (104) 120 Level (dBuV/m Date: 2022-07-05 108.0 96.0 84.0 72.0 60.0 48.0 36.0 24.0 12.0 0 2310 2333. 2370 2402. 2356. 2 Frequency (MHz) 2425 Site no. Dis. / Ant. Limit Env. / Ins. Test Mode : 3m Chamber : 3m 2021 MCTD1209-3006 : FCC PART 15C PEAK : 23.8*C/53.5 : 11g 2412MHz Tx Data no. : 11 Ant. pol. : HORIZONTAL Engineer : Allen Ant. Cable Factor Loss (dB/m) (dB) Amp Emission Reading factor Level Limits Margin Remark (dBuV) (dB) (dBuV/m) (dBuV/m) (dB) No. Freq. (MHz) 2390.00 27.89 3.65 2414.77 27.93 3.66 14.00

- 84.0 72.0 60.0 48.0 36.0 24.0 12.0 0 2310 No. Freq. (MHz)
- 63.70 110.25 35.24 60.00 35.24 106.60 74.00 Peak Peak Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor. 2. The emission levels that are 20dB below the official limit are not reported.

























Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.

 The emission levels that are 20dB below the official limit are not reported.



-Amp factor. 2. The emission levels that are 20dB below the official limit are not reported.







022-07-0	Date: 2						tuV/m)	20 Level (dE	
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			Emission	Amp		Cable	Ant.		
Remar	Margin	Limits	Level	factor	Reading	Loss	Factor	Freq.	
	(dB)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(dB)	(dB/m)	(MHz)	
Avera			90.35	35.25	93.87	3.70	28.03	464.46	
Avera	6.51	54.00	47.49	35.25	50.96	3.71	28.07	483.50	
Avera	16.93	54.00	37.07	35.25	40.50	3.72	28.10	:500.00	

Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 The emission levels that are 20dB below the official limit are not reported.











Data: 27 File: F:\2022 Report\北京摩创\A1Z2206116\A1Z2206116-2.4G.EM6 (104) 120 Level (dBuV/m) Date: 2022-07-08 108.0 96.0 84.0 72.0 60.0 48.0 36.0 24.0 12.0 o. 2394. Frequency (MHz) 0 2310 2338 2422 2366 2450 Site no. Dis. / Ant. Limit Env. / Ins. Test Mode : 3m Chamber : 3m 2021 MCTD1209-3006 : FCC PART 15C PEAK : 23.8*C/53.5% : 11n40 2422MHz Tx Data no. : 27 Ant. pol. : VERTICAL Engineer : Allen Ant. Cable Amp Emission Factor Loss Reading factor Level Limits Margin Remark (dB/m) (dB) (dBuV) (dB) (dBuV/m) (dBuV/m) (dB) No. Freq. (MHz) 2390.00 27.89 3.65 2426.48 27.96 3.67 58.07 98.64 35.24 35.24 54.37 95.03 74.00 19.63 Peak Peak

















7. 6dB & 99% Bandwidth Test

7.1.Test Equipments

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	PXA Signal Analyzer	Agilent	N9030A	MY51380221	Apr.07,22	1 Year
2.	RF Cable	HUBER+SUHNER	SUCOFLE X-106	505238/6	Apr.06,22	1 Year

7.2.Limit

For direct sequence systems, the minimum 6dB bandwidth shall be at least 500kHz

7.3.Test Procedure

Use the test method descried in ANSI C63.10 Section 11.8:

The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described in 11.8.1 (i.e., RBW = 100 kHz, VBW \ge 3 × RBW, and peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be \ge 6 dB.

Use the test method descried in ANSI C63.10 Section 6.9.2:

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. The following procedure shall be used for measuring 99% power bandwidth:

- a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.
- b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be approximately three times the RBW, unless otherwise specified by the applicable requirement.
- c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.5.2.
- d) Step a) through step c) might require iteration to adjust within the specified range.
- e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
- f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.
- g) If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies.
- h) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).



7.4.Test Results

EUT: Truck Infotainment Unit				
M/N: Service Entertainment Mod	ule 2.5			
Test date: 2022-06-29	Pressure: 102.1±1.0 kpa	Humidity: 53.2±3.0%		
Tested by: Xinyao	Test site: RF site	Temperature: 22.3 ±0.6 ℃		

Test	CU	-6dB Bandy	Limit			
Mode	Сп	ANT1	ANT2	(KHz)		
	CH1	10.09	10.10			
11b	CH6	10.10	10.10	≥500		
	CH11	10.11	10.10			
	CH1	16.40	16.41			
11g	CH6	16.39	16.40	≥500		
	CH11	16.40	16.39			
11.	CH1	17.58	17.60			
	CH6	17.56	17.57	≥500		
H120	CH11	17.56	17.59			
11	CH3	35.77	35.76			
	CH6	35.78	35.70	≥500		
H140	CH9	35.86	35.78			
Conclusion: Pass						









FCC ID: LTQVTSEMNAR

AUDIX®



FCC ID: LTQVTSEMNAR

AUDIX®





EUT: Truck	Infotainment Unit					
M/N: Service	e Entertainment Mo	odule 2.5				
Test date: 20	22-06-28~29	Pressure: 102.1±1	0 kpa	Humidity	: 53.2±3.0%	
Tested by: X	inyao	Test site: RF site		Temperature: 22.3±0.6°		
	-					
Test	СЦ	99%Band	width(MHz)		Limit	
Mode	CII	ANT1	AN	IT2	(MHz)	
	CH1	13.172	13.	175		
11b	CH6	13.164	13.162		N/A	
	CH11	13.178	13.	174]	
	CH1	16.561	16.603			
11g	CH6	16.535	16.	531	N/A	
	CH11	16.540	16.	545		
11	CH1	17.599	17.	635		
1111 UT20	CH6	17.594	17.611		N/A	
П120	CH11	17.607	17.0	609		
	CH3	36.021	36.0	012		
	CH6	36.010	36.0	001	N/A	
п140	CH9	36.001	36.0	030]	

Conclusion:Pass