



ANNEX A - MEASUREMENT RESULTS

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1 MAXIMUM OUTPUT POWER

Antenna gain (dBi)	3.2	LTE Band 106_Uplink frequency band : 897.5 to 900.5 MHz								
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	ERP Average (dBm)	ERP Limit (dBm)	Margin (dB)
1.4	134314	898.2	QPSK	1	0	22.93	26.13	23.98	34.77	-10.79
				1	5	22.90	26.10	23.95	34.77	-10.82
				3	2	22.92	26.12	23.97	34.77	-10.80
				6	0	21.95	25.15	23.00	34.77	-11.77
	134322	899	QPSK	1	0	22.78	25.98	23.83	34.77	-10.94
				1	5	22.82	26.02	23.87	34.77	-10.90
				3	2	22.92	26.12	23.97	34.77	-10.80
				6	0	21.96	25.16	23.01	34.77	-11.76
	134330	899.8	QPSK	1	0	22.87	26.07	23.92	34.77	-10.85
				1	5	22.90	26.10	23.95	34.77	-10.82
				3	2	22.79	25.99	23.84	34.77	-10.93
				6	0	21.97	25.17	23.02	34.77	-11.75
1.4	134314	898.2	16QAM	1	0	21.75	24.95	22.80	34.77	-11.97
				1	5	21.83	25.03	22.88	34.77	-11.89
				3	2	21.94	25.14	22.99	34.77	-11.78
				6	0	21.13	24.33	22.18	34.77	-12.59
	134322	899	16QAM	1	0	22.27	25.47	23.32	34.77	-11.45
				1	5	22.16	25.36	23.21	34.77	-11.56
				3	2	21.92	25.12	22.97	34.77	-11.80
				6	0	21.11	24.31	22.16	34.77	-12.61
	134330	899.8	16QAM	1	0	22.22	25.42	23.27	34.77	-11.50
				1	5	22.18	25.38	23.23	34.77	-11.54
				3	2	22.00	25.20	23.05	34.77	-11.72
				6	0	21.05	24.25	22.10	34.77	-12.67
1.4	134314	898.2	64QAM	1	0	21.32	24.52	22.37	34.77	-12.40
				1	5	21.16	24.36	22.21	34.77	-12.56
				3	2	21.07	24.27	22.12	34.77	-12.65
				6	0	20.93	24.13	21.98	34.77	-12.79
	134322	899	64QAM	1	0	21.94	25.14	22.99	34.77	-11.78
				1	5	21.84	25.04	22.89	34.77	-11.88
				3	2	21.80	25.00	22.85	34.77	-11.92
				6	0	20.95	24.15	22.00	34.77	-12.77
	134330	899.8	64QAM	1	0	21.82	25.02	22.87	34.77	-11.90
				1	5	21.81	25.01	22.86	34.77	-11.91
				3	2	21.43	24.63	22.48	34.77	-12.29
				6	0	20.89	24.09	21.94	34.77	-12.83

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Antenna gain (dBi)	3.2
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LTE Band 106_Uplink frequency band : 897.5 to 900.5 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	ERP Average (dBm)	ERP Limit (dBm)	Margin (dB)
3	134322	899	QPSK	1	0	22.94	26.14	23.99	34.77	-10.78
				1	14	22.72	25.92	23.77	34.77	-11.00
				8	4	22.08	25.28	23.13	34.77	-11.64
				15	0	21.95	25.15	23.00	34.77	-11.77
			16QAM	1	0	22.12	25.32	23.17	34.77	-11.60
				1	14	22.01	25.21	23.06	34.77	-11.71
				8	4	21.20	24.40	22.25	34.77	-12.52
				15	0	21.08	24.28	22.13	34.77	-12.64
			64QAM	1	0	21.74	24.94	22.79	34.77	-11.98
				1	14	21.61	24.81	22.66	34.77	-12.11
				8	4	21.06	24.26	22.11	34.77	-12.66
				15	0	20.92	24.12	21.97	34.77	-12.80

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2 OCCUPIED BANDWIDTH MEASUREMENT

LTE BAND 106 Channel bandwidth: 1.4MHz							
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)			
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
898.2	134314	1.0859	1.0878	1.0883	1.228	1.219	1.232
899.0	134322	1.0852	1.0843	1.0862	1.227	1.222	1.229
899.8	134330	1.0869	1.0855	1.0869	1.223	1.219	1.224

LTE BAND 106 Channel bandwidth: 3MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
899.0	134322	2.6877	2.6973	2.6953	2.936	2.964	2.973



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3 OUT OF BAND EMISSION AT ANTENNA TERMINALS



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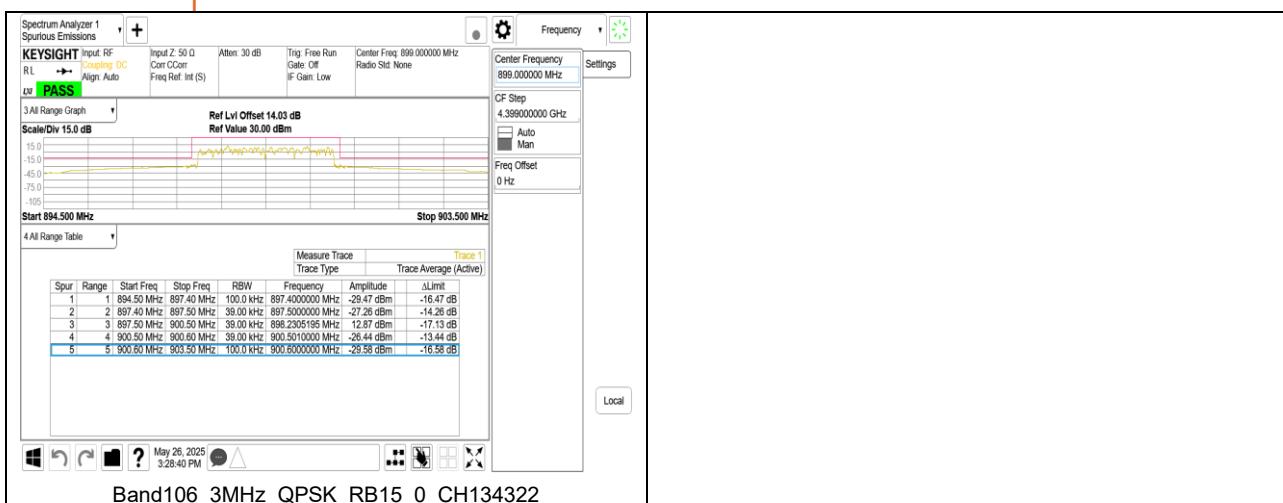
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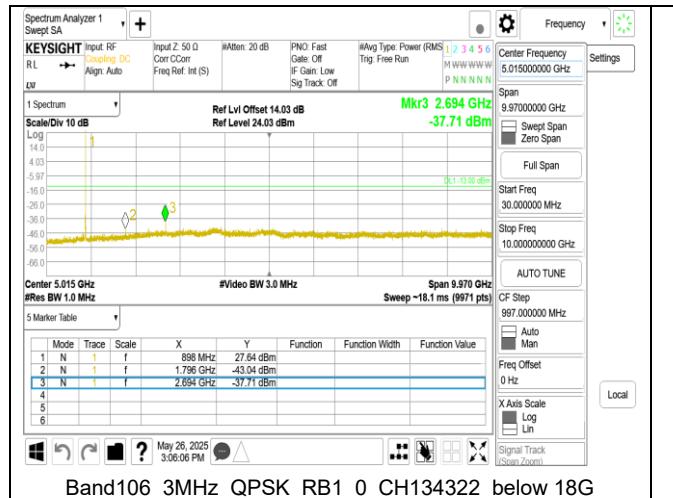
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4 SPURIOUS EMISSION AT ANTENNA TERMINALS:



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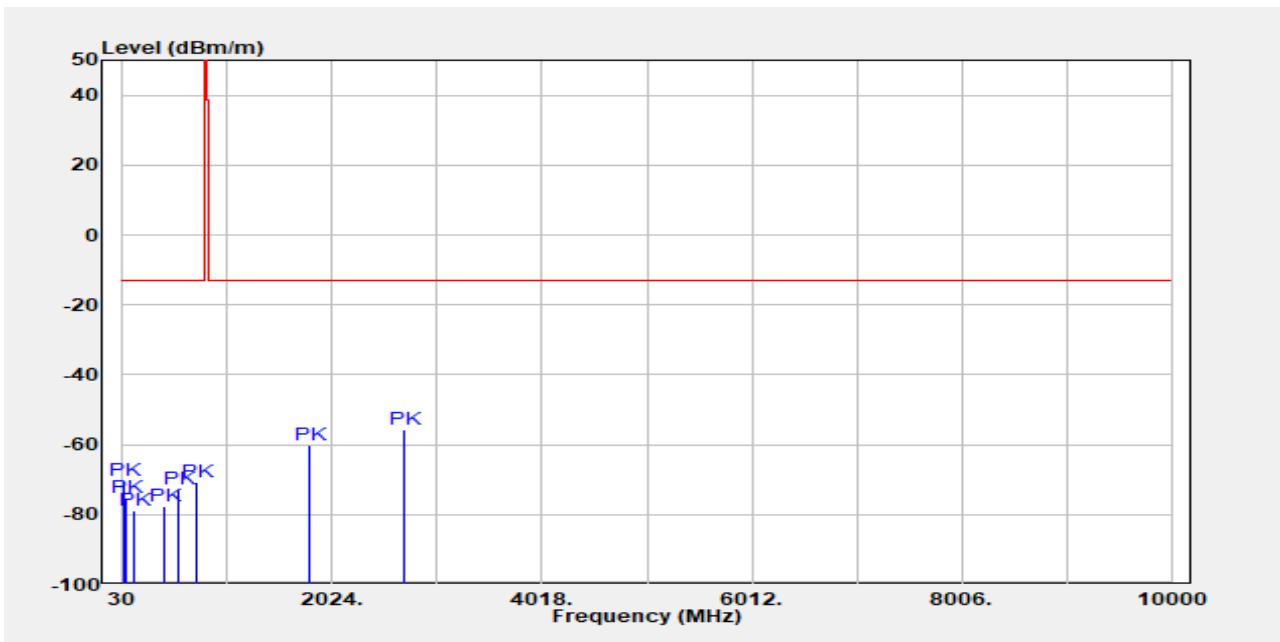
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5 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

5.1 Spurious Emission

Report Number	:TERF2504001355ER	Test Site	:SAC 2
Operation Mode	:LTE B106	Test Date	:2024-05-28
Test Mode	:Tx	Temp./Humi.	:23.1°C/58%
EUT Pol	:H Plane	Antenna Pol.	:Vertical
Test Frequency	:899 MHz	Engineer	:Bob Chao



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
44.44	-70.49	-56.71	-12.55	-1.22	-13.00	-57.49
65.03	-75.09	-65.27	-8.34	-1.48	-13.00	-62.09
139.83	-78.99	-75.02	-1.81	-2.16	-13.00	-65.99
422.10	-77.56	-77.92	4.10	-3.75	-13.00	-64.56
565.66	-72.73	-72.68	4.29	-4.34	-13.00	-59.73
730.56	-70.54	-69.18	3.57	-4.92	-13.00	-57.54
1798.00	-60.03	-62.11	9.88	-7.80	-13.00	-47.03
2697.00	-55.64	-56.86	10.86	-9.64	-13.00	-42.64

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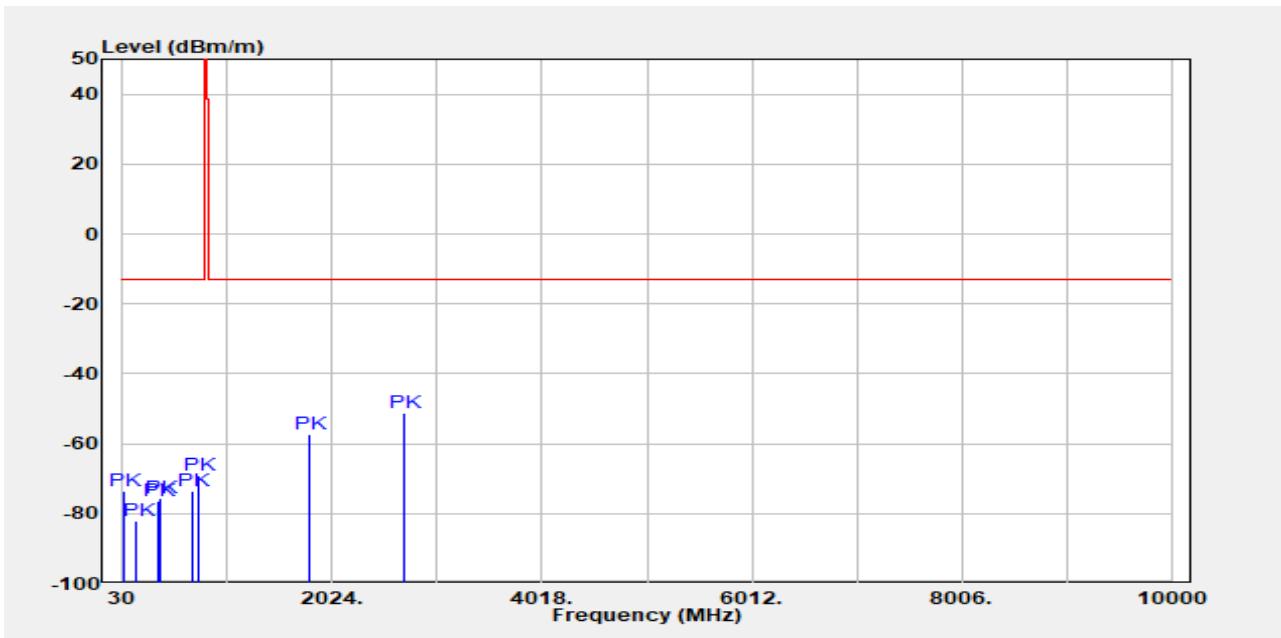
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Report Number :TERF2504001355ER Test Site :SAC 2
 Operation Mode :LTE B106 Test Date :2024-05-28
 Test Mode :Tx Temp./Humi. :23.1°C/58%
 EUT Pol :H Plane Antenna Pol. :Horizontal
 Test Frequency :899 MHz Engineer :Bob Chao



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
44.44	-73.74	-59.96	-12.55	-1.22	-13.00	-60.74
165.37	-82.11	-79.27	-0.49	-2.35	-13.00	-69.11
358.61	-76.34	-77.12	4.23	-3.45	-13.00	-63.34
385.67	-75.67	-75.98	3.89	-3.58	-13.00	-62.67
693.16	-73.47	-72.50	3.83	-4.80	-13.00	-60.47
745.64	-69.27	-67.83	3.53	-4.97	-13.00	-56.27
1798.00	-57.19	-59.27	9.88	-7.80	-13.00	-44.19
2697.00	-51.15	-52.36	10.86	-9.64	-13.00	-38.15

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6 FREQUENCY STABILITY MEASUREMENT

Note: The module's normal voltage is 3.3V dc.

Reference Freq.:	LTE B106 Mid Channel		899.0000	MHz 3M QPSK CH 134322
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	(ppm)	Limit
Freq. ERROR vs. VOLTAGE				
3.795	20	899.000001	0.0006	+/- 2.5 ppm
3.3	20	899.000012	0.0136	
2.805	20	899.000003	0.0037	
2.4 (End Point)	20	898.999997	-0.0034	
Freq. ERROR vs. Temp.				
3.3	-30	899.000010	0.0110	+/- 2.5 ppm
3.3	-20	899.000005	0.0053	
3.3	-10	899.000005	0.0055	
3.3	0	898.999988	-0.0132	
3.3	10	898.999995	-0.0056	
3.3	20	898.999993	-0.0080	
3.3	30	898.999992	-0.0095	
3.3	40	898.999997	-0.0032	
3.3	50	899.000008	0.0085	

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台灣檢驗科技股份有限公司

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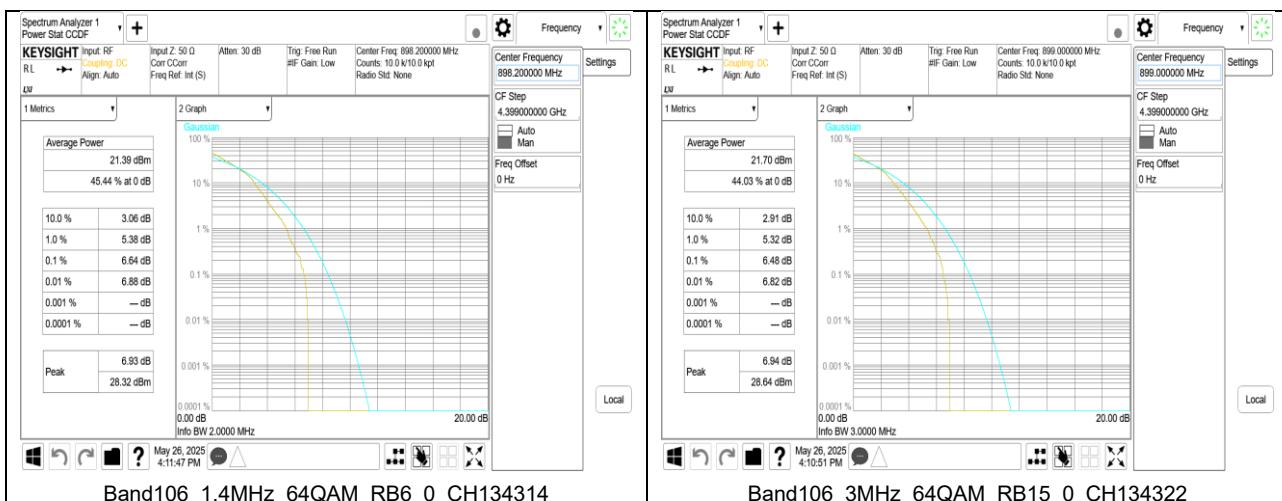
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7 PEAK TO AVERAGE RATIO

LTE BAND 106							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
898.2	134314	6.64	13	899.0	134322	6.48	13
899.0	134322	6.63	13			6.48	13
899.8	134330	6.37	13			6.37	13



~ End of Report ~

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
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