

Report No.: SZEM170900995904 Page: 1 of 86

Appendix B

E-UTRA Band 4



Report No.: SZEM170900995904 Page: 2 of 86

Page

CONTENT

1	1 EFFECTIVE (ISOTROPIC) RADIATED POWER OUTPUT DATA	3
2	2 PEAK-TO-AVERAGE RATIO	27
	2.1 For LTE	
	2.1.1 Test Band = LTE band4	
3	3 MODULATION CHARACTERISTICS	31
	3.1 For LTE	
	3.1.1 Test Band = LTE band4	
4	4 BANDWIDTH	33
	4.1 For LTE	
	4.1.1 Test Band = LTE band4	
5	5 BAND EDGES COMPLIANCE	52
	5.1 For LTE	52
	5.1.1 Test Band = LTE band4	52
6	6 SPURIOUS EMISSION AT ANTENNA TERMINAL	77
	6.1 For LTE	
	6.1.1 Test Band = LTE band4	
7	7 FIELD STRENGTH OF SPURIOUS RADIATION	82
	7.1 For LTE	82
	7.1.1 Test Band = LTE band4	82
	7.1.2 Test Band = LTE band4	
8	B FREQUENCY STABILITY	84
	8.1 FREQUENCY ERROR VS. VOLTAGE	
	8.2 FREQUENCY ERROR VS. TEMPERATURE	85



Report No.: SZEM170900995904 Page: 3 of 86

1 Effective (Isotropic) Radiated Power Output Data

Effective Isotropic Radiated Power of Transmitter (EIRP) for LTE BAND 4

Main Supply:

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				RB1#0	22.21	22.17	33.00	PASS
				RB1#2	22.34	22.26	33.00	PASS
				RB1#5	22.28	22.28	33.00	PASS
			LCH	RB3#0	22.36	22.23	33.00	PASS
				RB3#2	22.33	22.29	33.00	PASS
				RB3#3	22.37	22.34	33.00	PASS
				RB6#0	21.38	21.33	33.00	PASS
				RB1#0	22.44	22.30	33.00	PASS
				RB1#2	22.24	22.23	33.00	PASS
				RB1#5	22.18	22.17	33.00	PASS
BAND4	LTE/TM1	1.4M	МСН	RB3#0	22.02	21.98	33.00	PASS
				RB3#2	22.20	22.10	33.00	PASS
				RB3#3	22.37	22.26	33.00	PASS
				RB6#0	21.19	21.12	33.00	PASS
				RB1#0	22.43	22.41	33.00	PASS
				RB1#2	22.14	22.00	33.00	PASS
				RB1#5	21.67	21.60	33.00	PASS
			НСН	RB3#0	21.92	21.84	33.00	PASS
				RB3#2	21.84	21.73	33.00	PASS
				RB3#3	21.98	21.96	33.00	PASS
				RB6#0	20.96	20.89	33.00	PASS



Report No.: SZEM170900995904 Page: 4 of 86

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				RB1#0	22.04	21.95	33.00	PASS
				RB1#2	22.13	21.99	33.00	PASS
				RB1#5	22.04	22.01	33.00	PASS
			LCH	RB3#0	21.88	21.78	33.00	PASS
				RB3#2	21.86	21.78	33.00	PASS
				RB3#3	21.87	21.75	33.00	PASS
				RB6#0	20.87	20.73	33.00	PASS
				RB1#0	22.03	21.90	33.00	PASS
				RB1#2	22.06	22.06	33.00	PASS
				RB1#5	22.03	21.89	33.00	PASS
BAND4	LTE/TM2	1.4M	MCH	RB3#0	21.91	21.86	33.00	PASS
				RB3#2	21.84	21.80	33.00	PASS
				RB3#3	21.88	21.84	33.00	PASS
				RB6#0	20.89	20.81	33.00	PASS
				RB1#0	21.75	21.71	33.00	PASS
				RB1#2	21.78	21.72	33.00	PASS
				RB1#5	21.71	21.59	33.00	PASS
			НСН	RB3#0	21.59	21.58	33.00	PASS
				RB3#2	21.59	21.47	33.00	PASS
				RB3#3	21.70	21.57	33.00	PASS
				RB6#0	20.57	20.43	33.00	PASS



Report No.: SZEM170900995904 Page: 5 of 86

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				RB1#0	22.84	22.77	33.00	PASS
				RB1#7	22.58	22.45	33.00	PASS
				RB1#14	22.11	22.05	33.00	PASS
			LCH	RB8#0	21.94	21.82	33.00	PASS
				RB8#4	21.99	21.89	33.00	PASS
				RB8#7	21.57	21.50	33.00	PASS
				RB15#0	21.11	20.99	33.00	PASS
				RB1#0	22.78	22.73	33.00	PASS
				RB1#7	22.83	22.81	33.00	PASS
				RB1#14	22.75	22.72	33.00	PASS
BAND4	LTE/TM1	ЗМ	MCH	RB8#0	22.05	22.01	33.00	PASS
				RB8#4	21.95	21.83	33.00	PASS
				RB8#7	21.98	21.89	33.00	PASS
				RB15#0	22.2	22.06	33.00	PASS
				RB1#0	22.86	22.75	33.00	PASS
				RB1#7	22.64	22.55	33.00	PASS
				RB1#14	22.18	22.03	33.00	PASS
			НСН	RB8#0	21.52	21.51	33.00	PASS
				RB8#4	21.47	21.36	33.00	PASS
				RB8#7	21.44	21.36	33.00	PASS
				RB15#0	21.03	20.98	33.00	PASS



Report No.: SZEM170900995904 Page: 6 of 86

					Page:	6 of 86	0	
Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				RB1#0	21.68	21.68	33.00	PASS
				RB1#7	21.72	21.65	33.00	PASS
				RB1#14	21.57	21.50	33.00	PASS
			LCH	RB8#0	20.33	20.24	33.00	PASS
				RB8#4	20.39	20.27	33.00	PASS
				RB8#7	20.5	20.49	33.00	PASS
				RB15#0	20.08	20.04	33.00	PASS
				RB1#0	22.01	21.94	33.00	PASS
				RB1#7	22.24	22.16	33.00	PASS
				RB1#14	22.05	21.92	33.00	PASS
BAND4	LTE/TM2	3M	MCH	RB8#0	21.2	21.16	33.00	PASS
				RB8#4	21.03	21.02	33.00	PASS
				RB8#7	20.65	20.52	33.00	PASS
				RB15#0	20.63	20.49	33.00	PASS
				RB1#0	21.79	21.72	33.00	PASS
				RB1#7	21.88	21.76	33.00	PASS
				RB1#14	21.15	21.09	33.00	PASS
			НСН	RB8#0	20.69	20.66	33.00	PASS
				RB8#4	20.2	20.05	33.00	PASS
				RB8#7	19.67	19.63	33.00	PASS
				RB15#0	19.86	19.76	33.00	PASS



Report No.: SZEM170900995904 Page: 7 of 86

					Page:	7 of 86) 	
Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				RB1#0	22.35	22.23	33.00	PASS
				RB1#13	22.35	22.20	33.00	PASS
				RB1#24	22.31	22.21	33.00	PASS
			LCH	RB12#0	21.42	21.41	33.00	PASS
				RB12#6	21.46	21.45	33.00	PASS
				RB12#13	21.45	21.43	33.00	PASS
				RB25#0	21.33	21.20	33.00	PASS
				RB1#0	22.02	22.01	33.00	PASS
				RB1#13	22.26	22.20	33.00	PASS
				RB1#24	22.27	22.21	33.00	PASS
BAND4	LTE/TM1	5M	MCH	RB12#0	21.3	21.18	33.00	PASS
				RB12#6	21.32	21.18	33.00	PASS
				RB12#13	21.33	21.28	33.00	PASS
				RB25#0	21.24	21.11	33.00	PASS
				RB1#0	22.32	22.19	33.00	PASS
				RB1#13	21.97	21.85	33.00	PASS
				RB1#24	21.93	21.90	33.00	PASS
			НСН	RB12#0	21	20.92	33.00	PASS
				RB12#6	21.01	21.00	33.00	PASS
				RB12#13	20.95	20.87	33.00	PASS
				RB25#0	21.02	20.94	33.00	PASS



Report No.: SZEM170900995904 Page: 8 of 86

					Page:	8 of 86)	
Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				RB1#0	22.14	22.06	33.00	PASS
				RB1#13	22.21	22.16	33.00	PASS
				RB1#24	22.28	22.22	33.00	PASS
			LCH	RB12#0	20.89	20.82	33.00	PASS
				RB12#6	20.89	20.87	33.00	PASS
				RB12#13	20.89	20.87	33.00	PASS
				RB25#0	20.84	20.71	33.00	PASS
				RB1#0	22.07	21.97	33.00	PASS
				RB1#13	22.10	22.10	33.00	PASS
				RB1#24	21.98	21.89	33.00	PASS
BAND4	LTE/TM2	5M	MCH	RB12#0	20.89	20.88	33.00	PASS
				RB12#6	20.89	20.83	33.00	PASS
				RB12#13	20.84	20.70	33.00	PASS
				RB25#0	20.83	20.70	33.00	PASS
				RB1#0	21.88	21.77	33.00	PASS
				RB1#13	21.84	21.74	33.00	PASS
				RB1#24	21.72	21.64	33.00	PASS
			НСН	RB12#0	20.65	20.52	33.00	PASS
				RB12#6	20.61	20.47	33.00	PASS
				RB12#13	20.56	20.43	33.00	PASS
				RB25#0	20.66	20.65	33.00	PASS



Report No.: SZEM170900995904 Page: 9 of 86

		1			Page:	9 of 86	0	
Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				RB1#0	22.45	22.42	33.00	PASS
				RB1#25	22.43	22.34	33.00	PASS
				RB1#49	22.40	22.28	33.00	PASS
			LCH	RB25#0	21.45	21.38	33.00	PASS
				RB25#13	21.44	21.33	33.00	PASS
				RB25#25	21.42	21.36	33.00	PASS
				RB50#0	21.53	21.50	33.00	PASS
				RB1#0	22.20	22.19	33.00	PASS
				RB1#25	22.33	22.21	33.00	PASS
				RB1#49	22.20	22.11	33.00	PASS
BAND4	LTE/TM1	10M	MCH	RB25#0	21.30	21.20	33.00	PASS
				RB25#13	21.24	21.11	33.00	PASS
				RB25#25	21.06	20.99	33.00	PASS
				RB50#0	21.49	21.38	33.00	PASS
				RB1#0	22.27	22.22	33.00	PASS
				RB1#25	22.09	21.97	33.00	PASS
				RB1#49	21.95	21.83	33.00	PASS
			НСН	RB25#0	21.01	20.95	33.00	PASS
				RB25#13	20.73	20.67	33.00	PASS
				RB25#25	21.03	20.98	33.00	PASS
				RB50#0	20.87	20.85	33.00	PASS



Report No.: SZEM170900995904 Page: 10 of 86

	-				Page:	10 of 8	30	
Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				RB1#0	22.19	22.13	33.00	PASS
				RB1#25	22.49	22.45	33.00	PASS
				RB1#49	21.58	21.46	33.00	PASS
			LCH	RB25#0	20.48	20.36	33.00	PASS
				RB25#13	21.05	20.99	33.00	PASS
				RB25#25	20.74	20.69	33.00	PASS
				RB50#0	20.43	20.38	33.00	PASS
				RB1#0	22.15	22.08	33.00	PASS
				RB1#25	22.11	22.02	33.00	PASS
				RB1#49	21.79	21.70	33.00	PASS
BAND4	LTE/TM2	10M	MCH	RB25#0	21.17	21.06	33.00	PASS
				RB25#13	20.93	20.91	33.00	PASS
				RB25#25	21.24	21.13	33.00	PASS
				RB50#0	20.80	20.77	33.00	PASS
				RB1#0	21.96	21.95	33.00	PASS
				RB1#25	22.25	22.18	33.00	PASS
				RB1#49	21.10	21.04	33.00	PASS
			НСН	RB25#0	20.88	20.74	33.00	PASS
				RB25#13	20.81	20.74	33.00	PASS
				RB25#25	20.59	20.58	33.00	PASS
				RB50#0	20.39	20.34	33.00	PASS



Report No.: SZEM170900995904 Page: 11 of 86

					Page:	11 of 8	30	
Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				RB1#0	23.00	22.97	33.00	PASS
				RB1#38	22.57	22.54	33.00	PASS
				RB1#74	22.39	22.30	33.00	PASS
			LCH	RB36#0	21.84	21.83	33.00	PASS
				RB36#18	21.41	21.30	33.00	PASS
				RB36#39	21.63	21.60	33.00	PASS
				RB75#0	21.71	21.63	33.00	PASS
				RB1#0	23.06	22.99	33.00	PASS
				RB1#38	22.90	22.86	33.00	PASS
				RB1#74	22.43	22.35	33.00	PASS
BAND4	LTE/TM1	15M	MCH	RB36#0	22.03	21.98	33.00	PASS
				RB36#18	22.24	22.14	33.00	PASS
				RB36#39	21.97	21.97	33.00	PASS
				RB75#0	21.98	21.89	33.00	PASS
				RB1#0	22.84	22.82	33.00	PASS
				RB1#38	22.72	22.62	33.00	PASS
				RB1#74	21.80	21.80	33.00	PASS
			HCH	RB36#0	22.03	22.01	33.00	PASS
				RB36#18	21.87	21.82	33.00	PASS
				RB36#39	21.66	21.55	33.00	PASS
				RB75#0	21.89	21.75	33.00	PASS



Report No.: SZEM170900995904 Page: 12 of 86

			12 of 8	30				
Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				RB1#0	22.28	22.27	33.00	PASS
				RB1#38	22.19	22.05	33.00	PASS
				RB1#74	21.90	21.80	33.00	PASS
			LCH	RB36#0	21.32	21.23	33.00	PASS
				RB36#18	20.64	20.63	33.00	PASS
				RB36#39	21.17	21.15	33.00	PASS
				RB75#0	20.91	20.79	33.00	PASS
				RB1#0	22.24	22.14	33.00	PASS
				RB1#38	22.19	22.12	33.00	PASS
				RB1#74	22.15	22.13	33.00	PASS
BAND4	LTE/TM2	15M	MCH	RB36#0	20.90	20.80	33.00	PASS
				RB36#18	21.02	21.02	33.00	PASS
				RB36#39	20.93	20.91	33.00	PASS
				RB75#0	21.02	20.88	33.00	PASS
				RB1#0	22.00	21.88	33.00	PASS
				RB1#38	21.89	21.83	33.00	PASS
				RB1#74	21.43	21.41	33.00	PASS
			HCH	RB36#0	20.77	20.69	33.00	PASS
				RB36#18	21.00	20.86	33.00	PASS
				RB36#39	20.74	20.65	33.00	PASS
				RB75#0	20.74	20.59	33.00	PASS



Report No.: SZEM170900995904 Page: 13 of 86

					Page:	13 of 8	30	
Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				RB1#0	22.98	22.98	33.00	PASS
				RB1#50	22.94	22.91	33.00	PASS
				RB1#99	22.89	22.89	33.00	PASS
			LCH	RB50#0	22.11	22.08	33.00	PASS
				RB50#25	22.03	21.94	33.00	PASS
				RB50#50	22.04	21.95	33.00	PASS
				RB100#0	22.05	22.00	33.00	PASS
				RB1#0	22.96	22.81	33.00	PASS
				RB1#50	22.93	22.84	33.00	PASS
				RB1#99	22.76	22.70	33.00	PASS
BAND4	LTE/TM1	20M	MCH	RB50#0	22.08	21.99	33.00	PASS
				RB50#25	22.03	22.02	33.00	PASS
				RB50#50	21.96	21.93	33.00	PASS
				RB100#0	22.02	21.96	33.00	PASS
				RB1#0	22.97	22.87	33.00	PASS
				RB1#50	22.71	22.61	33.00	PASS
				RB1#99	22.6	22.59	33.00	PASS
			НСН	RB50#0	21.95	21.93	33.00	PASS
				RB50#25	21.85	21.82	33.00	PASS
				RB50#50	21.82	21.77	33.00	PASS
				RB100#0	21.88	21.80	33.00	PASS



Report No.: SZEM170900995904 Page: 14 of 86

	Page: 14 of 86							
Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				RB1#0	22.35	22.28	33.00	PASS
				RB1#50	22.19	22.09	33.00	PASS
				RB1#99	22.15	22.08	33.00	PASS
			LCH	RB50#0	21.01	21.00	33.00	PASS
				RB50#25	20.95	20.81	33.00	PASS
				RB50#50	20.92	20.87	33.00	PASS
				RB100#0	20.93	20.91	33.00	PASS
				RB1#0	22.34	22.30	33.00	PASS
				RB1#50	22.16	22.10	33.00	PASS
				RB1#99	22.01	21.94	33.00	PASS
BAND4	LTE/TM2	20M	MCH	RB50#0	20.96	20.86	33.00	PASS
				RB50#25	20.93	20.83	33.00	PASS
				RB50#50	20.82	20.70	33.00	PASS
				RB100#0	20.89	20.81	33.00	PASS
				RB1#0	22.22	22.10	33.00	PASS
				RB1#50	21.98	21.85	33.00	PASS
				RB1#99	21.88	21.86	33.00	PASS
			НСН	RB50#0	20.83	20.82	33.00	PASS
				RB50#25	20.73	20.68	33.00	PASS
				RB50#50	20.71	20.66	33.00	PASS
				RB100#0	20.73	20.63	33.00	PASS



Report No.: SZEM170900995904 Page: 15 of 86

Secondary Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				RB1#0	22.37	19.23	33.00	PASS
				RB1#2	22.37	19.29	33.00	PASS
				RB1#5	22.19	19.08	33.00	PASS
			LCH	RB3#0	22.35	19.28	33.00	PASS
				RB3#2	22.27	19.26	33.00	PASS
				RB3#3	22.39	19.27	33.00	PASS
				RB6#0	21.36	18.23	33.00	PASS
				RB1#0	22.08	19.04	33.00	PASS
				RB1#2	22.21	19.16	33.00	PASS
				RB1#5	22.12	19.03	33.00	PASS
BAND4	LTE/TM1	1.4M	MCH	RB3#0	22.24	19.12	33.00	PASS
				RB3#2	22.14	19.05	33.00	PASS
				RB3#3	22.17	19.16	33.00	PASS
				RB6#0	21.23	18.17	33.00	PASS
				RB1#0	22.11	19.02	33.00	PASS
				RB1#2	22.22	19.14	33.00	PASS
				RB1#5	22.11	19.05	33.00	PASS
			НСН	RB3#0	22.24	19.22	33.00	PASS
				RB3#2	22.13	19.01	33.00	PASS
				RB3#3	22.19	19.18	33.00	PASS
				RB6#0	21.21	18.12	33.00	PASS

Secondary Supply:



Report No.: SZEM170900995904 Page: 16 of 86

Page: 16 of 86								
Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				RB1#0	21.43	18.41	33.00	PASS
				RB1#2	21.54	18.46	33.00	PASS
				RB1#5	21.19	18.16	33.00	PASS
			LCH	RB3#0	21.26	18.26	33.00	PASS
				RB3#2	21.33	18.30	33.00	PASS
				RB3#3	21.24	18.23	33.00	PASS
				RB6#0	20.37	17.34	33.00	PASS
				RB1#0	21.22	18.21	33.00	PASS
				RB1#2	21.48	18.46	33.00	PASS
				RB1#5	21.21	18.15	33.00	PASS
BAND4	LTE/TM2	1.4M	МСН	RB3#0	21.19	18.12	33.00	PASS
				RB3#2	21.14	18.03	33.00	PASS
				RB3#3	21.23	18.10	33.00	PASS
				RB6#0	20.42	17.31	33.00	PASS
				RB1#0	20.93	17.79	33.00	PASS
				RB1#2	21.56	18.42	33.00	PASS
				RB1#5	21.32	18.21	33.00	PASS
			НСН	RB3#0	21.21	18.20	33.00	PASS
				RB3#2	21.11	18.05	33.00	PASS
				RB3#3	21.10	18.06	33.00	PASS PASS PASS PASS PASS PASS PASS PASS
				RB6#0	20.30	17.29	33.00	PASS



Report No.: SZEM170900995904 Page: 17 of 86

Page: 17 of 86								
Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				RB1#0	22.16	19.11	33.00	PASS
				RB1#7	22.22	19.13	33.00	PASS
				RB1#14	22.27	19.21	33.00	PASS
			LCH	RB8#0	21.38	18.37	33.00	PASS
				RB8#4	21.42	18.29	33.00	PASS
				RB8#7	21.38	18.30	33.00	PASS
				RB15#0	21.37	18.31	33.00	PASS
				RB1#0	22.07	18.97	33.00	PASS
				RB1#7	22.03	19.02	33.00	PASS
				RB1#14	21.99	18.88	33.00	PASS
BAND4	LTE/TM1	ЗМ	MCH	RB8#0	21.23	18.16	33.00	PASS
				RB8#4	21.21	18.17	33.00	PASS
				RB8#7	21.16	18.07	33.00	PASS
				RB15#0	21.20	18.07	33.00	PASS
				RB1#0	22.19	19.10	33.00	PASS
				RB1#7	22.24	19.22	33.00	PASS
				RB1#14	22.03	18.89	33.00	PASS
			НСН	RB8#0	21.22	18.21	33.00	PASS
				RB8#4	21.26	18.24	33.00	PASS
				RB8#7	21.26	18.12	33.00	PASS
				RB15#0	21.24	18.23	33.00	PASS



Report No.: SZEM170900995904 Page: 18 of 86

·	Page: 18 of 86							
Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				RB1#0	21.48	18.43	33.00	PASS
				RB1#7	21.06	17.96	33.00	PASS
				RB1#14	21.72	18.72	33.00	PASS
			LCH	RB8#0	20.42	17.39	33.00	PASS
				RB8#4	20.40	17.35	33.00	PASS
				RB8#7	20.37	17.31	33.00	PASS
				RB15#0	20.26	17.19	33.00	PASS
				RB1#0	21.69	18.66	33.00	PASS
				RB1#7	21.33	18.20	33.00	PASS
				RB1#14	21.28	18.16	33.00	PASS
BAND4	LTE/TM2	3M	MCH	RB8#0	20.27	17.15	33.00	PASS
				RB8#4	20.28	17.22	33.00	PASS
				RB8#7	20.23	17.08	33.00	PASS
				RB15#0	20.19	17.05	33.00	PASS
				RB1#0	21.72	18.62	33.00	PASS
				RB1#7	21.56	18.44	33.00	PASS
				RB1#14	21.31	18.19	33.00	PASS
			НСН	RB8#0	20.25	17.23	33.00	PASS
				RB8#4	20.16	17.10	33.00	PASS
				RB8#7	20.23	17.20	33.00	PASS
				RB15#0	20.21	17.11	33.00	PASS



Report No.: SZEM170900995904 Page: 19 of 86

	Page: 19 of 86							
Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				RB1#0	22.23	19.12	33.00	PASS
				RB1#13	22.27	19.18	33.00	PASS
				RB1#24	22.31	19.26	33.00	PASS
			LCH	RB12#0	21.44	18.40	33.00	PASS
				RB12#6	21.39	18.26	33.00	PASS
				RB12#13	21.42	18.33	33.00	PASS
				RB25#0	21.37	18.25	33.00	PASS
				RB1#0	22.20	19.10	33.00	PASS
				RB1#13	22.28	19.18	33.00	PASS
				RB1#24	22.17	19.10	33.00	PASS
BAND4	LTE/TM1	5M	MCH	RB12#0	21.29	18.19	33.00	PASS
				RB12#6	21.21	18.10	33.00	PASS
				RB12#13	21.20	18.15	33.00	PASS
				RB25#0	21.21	18.17	33.00	PASS
				RB1#0	22.33	19.21	33.00	PASS
				RB1#13	22.23	19.14	33.00	PASS
				RB1#24	22.17	19.05	33.00	PASS
			НСН	RB12#0	21.27	18.24	33.00	PASS
				RB12#6	21.25	18.24	33.00	PASS
				RB12#13	21.27	18.14	33.00	PASS
				RB25#0	21.23	18.16	33.00	PASS



Report No.: SZEM170900995904 Page: 20 of 86

Page: 20 of 86								
Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				RB1#0	21.56	18.45	33.00	PASS
				RB1#13	21.55	18.47	33.00	PASS
				RB1#24	21.73	18.63	33.00	PASS
			LCH	RB12#0	20.43	17.39	33.00	PASS
				RB12#6	20.46	17.35	33.00	PASS
				RB12#13	20.39	17.29	33.00	PASS
				RB25#0	20.26	17.19	33.00	PASS
				RB1#0	21.74	18.59	33.00	PASS
				RB1#13	21.70	18.66	33.00	PASS
				RB1#24	21.55	18.47	33.00	PASS
BAND4	LTE/TM2	5M	MCH	RB12#0	20.29	17.20	33.00	PASS
				RB12#6	20.18	17.07	33.00	PASS
				RB12#13	20.20	17.18	33.00	PASS
				RB25#0	20.22	17.15	33.00	PASS
				RB1#0	21.15	18.13	33.00	PASS
				RB1#13	21.73	18.64	33.00	PASS
				RB1#24	21.16	18.05	33.00	PASS
			НСН	RB12#0	20.18	17.10	33.00	PASS
				RB12#6	20.18	17.14	33.00	PASS
				RB12#13	20.22	17.12	33.00	PASS
				RB25#0	20.26	17.20	33.00	PASS



Report No.: SZEM170900995904 Page: 21 of 86

·	Page: 21 of 86								
Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict	
				RB1#0	22.43	19.29	33.00	PASS	
				RB1#25	22.31	19.24	33.00	PASS	
				RB1#49	22.21	19.09	33.00	PASS	
			LCH	RB25#0	21.35	18.22	33.00	PASS	
				RB25#13	21.59	18.46	33.00	PASS	
				RB25#25	21.09	18.07	33.00	PASS	
				RB50#0	21.89	18.80	33.00	PASS	
				RB1#0	22.20	19.13	33.00	PASS	
				RB1#25	22.12	18.99	33.00	PASS	
				RB1#49	22.23	19.13	33.00	PASS	
BAND4	LTE/TM1	10M	MCH	RB25#0	21.28	18.13	33.00	PASS	
				RB25#13	21.26	18.22	33.00	PASS	
				RB25#25	21.26	18.17	33.00	PASS	
				RB50#0	21.26	18.25	33.00	PASS	
				RB1#0	22.24	19.13	33.00	PASS	
				RB1#25	22.08	19.04	33.00	PASS	
				RB1#49	22.07	18.98	33.00	PASS	
			НСН	RB25#0	21.30	18.27	33.00	PASS	
				RB25#13	21.25	18.15	33.00	PASS	
				RB25#25	21.23	18.17	33.00	PASS	
				RB50#0	21.25	18.21	33.00	PASS	



Report No.: SZEM170900995904 Page: 22 of 86

	Page: 22 of 86								
Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict	
				RB1#0	21.16	18.08	33.00	PASS	
				RB1#25	21.73	18.67	33.00	PASS	
				RB1#49	21.59	18.47	33.00	PASS	
			LCH	RB25#0	20.36	17.33	33.00	PASS	
				RB25#13	20.96	17.93	33.00	PASS	
				RB25#25	20.37	17.32	33.00	PASS	
				RB50#0	20.39	17.32	33.00	PASS	
				RB1#0	21.97	18.87	33.00	PASS	
				RB1#25	21.28	18.20	33.00	PASS	
				RB1#49	21.14	18.09	33.00	PASS	
BAND4	LTE/TM2	10M	MCH	RB25#0	20.33	17.26	33.00	PASS	
				RB25#13	20.24	17.20	33.00	PASS	
				RB25#25	20.15	17.09	33.00	PASS	
				RB50#0	20.24	17.12	33.00	PASS	
				RB1#0	21.67	18.57	33.00	PASS	
				RB1#25	21.65	18.52	33.00	PASS	
				RB1#49	21.51	18.39	33.00	PASS	
			НСН	RB25#0	20.19	17.16	33.00	PASS	
				RB25#13	20.20	17.20	33.00	PASS	
				RB25#25	20.20	17.08	33.00	PASS	
				RB50#0	20.13	17.10	33.00	PASS	



Report No.: SZEM170900995904 Page: 23 of 86

Page: 23 of 86								
Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				RB1#0	22.39	19.30	33.00	PASS
				RB1#38	22.47	19.44	33.00	PASS
				RB1#74	22.43	19.29	33.00	PASS
			LCH	RB36#0	21.47	18.44	33.00	PASS
				RB36#18	21.44	18.35	33.00	PASS
				RB36#39	21.36	18.33	33.00	PASS
				RB75#0	21.44	18.37	33.00	PASS
				RB1#0	22.27	19.16	33.00	PASS
				RB1#38	22.12	19.06	33.00	PASS
				RB1#74	22.04	18.90	33.00	PASS
BAND4	LTE/TM1	15M	MCH	RB36#0	21.29	18.25	33.00	PASS
				RB36#18	21.25	18.17	33.00	PASS
				RB36#39	21.28	18.25	33.00	PASS
				RB75#0	21.28	18.19	33.00	PASS
				RB1#0	22.19	19.18	33.00	PASS
				RB1#38	22.14	19.07	33.00	PASS
				RB1#74	22.26	19.19	33.00	PASS
			HCH	RB36#0	21.25	18.19	33.00	PASS
				RB36#18	21.24	18.16	33.00	PASS
				RB36#39	21.26	18.25	33.00	PASS
				RB75#0	21.18	18.10	33.00	PASS



Report No.: SZEM170900995904 Page: 24 of 86

Page: 24 of 86								
Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				RB1#0	21.63	18.58	33.00	PASS
				RB1#38	21.16	18.15	33.00	PASS
				RB1#74	21.70	18.69	33.00	PASS
			LCH	RB36#0	20.47	17.35	33.00	PASS
				RB36#18	20.44	17.32	33.00	PASS
				RB36#39	20.33	17.33	33.00	PASS
				RB75#0	20.42	17.40	33.00	PASS
				RB1#0	21.08	17.98	33.00	PASS
				RB1#38	21.25	18.20	33.00	PASS
				RB1#74	21.36	18.34	33.00	PASS
BAND4	LTE/TM2	15M	MCH	RB36#0	20.28	17.18	33.00	PASS
				RB36#18	20.24	17.11	33.00	PASS
				RB36#39	20.20	17.09	33.00	PASS
				RB75#0	20.23	17.21	33.00	PASS
				RB1#0	21.82	18.76	33.00	PASS
				RB1#38	21.05	17.91	33.00	PASS
				RB1#74	21.21	18.14	33.00	PASS
			HCH	RB36#0	20.20	17.15	33.00	PASS
				RB36#18	20.17	17.09	33.00	PASS
				RB36#39	20.19	17.06	33.00	PASS
				RB75#0	20.20	17.06	33.00	PASS



Report No.: SZEM170900995904 Page: 25 of 86

	Page: 25 of 86								
Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict	
				RB1#0	22.45	19.32	33.00	PASS	
				RB1#50	22.28	19.14	33.00	PASS	
				RB1#99	22.17	19.09	33.00	PASS	
			LCH	RB50#0	21.48	18.41	33.00	PASS	
				RB50#25	21.33	18.26	33.00	PASS	
				RB50#50	21.31	18.19	33.00	PASS	
				RB100#0	21.35	18.33	33.00	PASS	
				RB1#0	22.27	19.19	33.00	PASS	
				RB1#50	22.23	19.11	33.00	PASS	
				RB1#99	22.10	18.95	33.00	PASS	
BAND4	LTE/TM1	20M	MCH	RB50#0	21.34	18.31	33.00	PASS	
				RB50#25	21.30	18.28	33.00	PASS	
				RB50#50	21.29	18.18	33.00	PASS	
				RB100#0	21.29	18.20	33.00	PASS	
				RB1#0	22.26	19.23	33.00	PASS	
				RB1#50	22.08	18.94	33.00	PASS	
				RB1#99	22.18	19.13	33.00	PASS	
			НСН	RB50#0	21.19	18.18	33.00	PASS	
				RB50#25	21.18	18.10	33.00	PASS	
				RB50#50	21.16	18.14	33.00	PASS	
				RB100#0	21.26	18.12	33.00	PASS	



Report No.: SZEM170900995904 Page: 26 of 86

	-				Page:	26 of 8	80	
Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
	LTE/TM2	20M	LCH	RB1#0	21.93	18.88	33.00	PASS
				RB1#50	21.49	18.48	33.00	PASS
				RB1#99	21.75	18.68	33.00	PASS
				RB50#0	20.38	17.32	33.00	PASS
				RB50#25	20.34	17.27	33.00	PASS
				RB50#50	20.31	17.18	33.00	PASS
				RB100#0	20.33	17.30	33.00	PASS
			МСН	RB1#0	21.29	18.26	33.00	PASS
				RB1#50	21.24	18.17	33.00	PASS
				RB1#99	21.22	18.21	33.00	PASS
BAND4				RB50#0	20.30	17.18	33.00	PASS
				RB50#25	20.22	17.09	33.00	PASS
				RB50#50	20.23	17.12	33.00	PASS
				RB100#0	20.23	17.11	33.00	PASS
			НСН	RB1#0	21.31	18.24	33.00	PASS
				RB1#50	21.69	18.60	33.00	PASS
				RB1#99	21.79	18.74	33.00	PASS
				RB50#0	20.23	17.08	33.00	PASS
				RB50#25	20.09	17.08	33.00	PASS
				RB50#50	20.25	17.17	33.00	PASS
				RB100#0	20.10	16.97	33.00	PASS

Note:

a: For getting the EIRP (Efficient Isotropic Radiated Power) in substitution method, the following formula should be taken to calculate it,

EIRP [dBm] = SGP [dBm] – Cable Loss [dB] + Gain [dBi]

b: SGP=Signal Generator Level

c: RBW > emission bandwidth, VBW > $3 \times RBW$.

Detector: RMS



Report No.: SZEM170900995904 Page: 27 of 86

2 Peak-to-Average Ratio

Part I - Test Results

Test Band	Test Mode	Test Channel	Measured[dB]	Limit [dB]	Verdict
	TM1/20M	LCH	5.28	13	PASS
		MCH	5.22	13	PASS
Band 4		HCH	4.87	13	PASS
Banu 4		LCH	6.20	13	PASS
	TM2/20M	MCH	6.14	13	PASS
		HCH	5.88	13	PASS



Report No.: SZEM170900995904 Page: 28 of 86

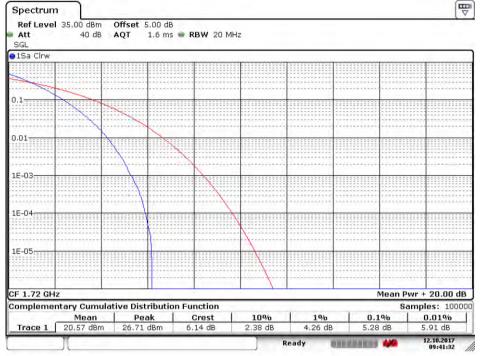
Part II - Test Plots

2.1 For LTE

2.1.1 Test Band = LTE band4



2.1.1.1.1 Test Channel = LCH



Date: 12.0CT.2017 09:41:32



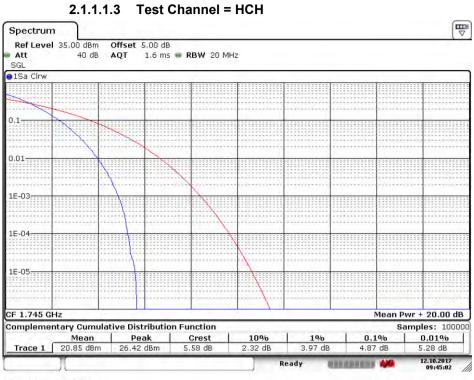


Date: 12.OCT.2017 09:43:52

"This document is issued by the Company subject to its General Conditions of Service printed overleaf,-available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions/Terms-a

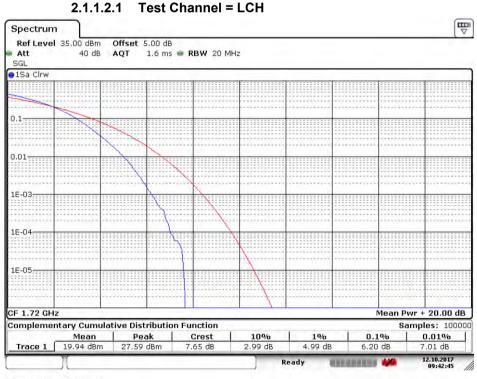


Report No.: SZEM170900995904 Page: 29 of 86



Date: 12.OCT.2017 09:45:02

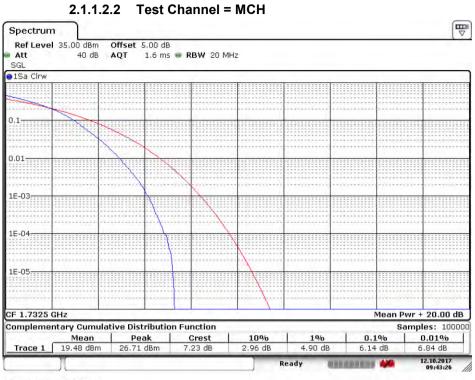
2.1.1.2 Test Mode = LTE/TM2.Bandwidth=20MHz



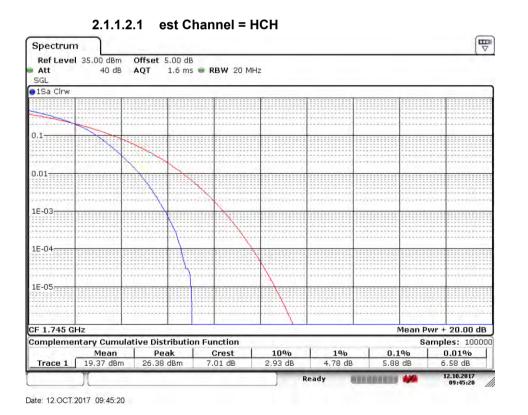
Date: 12.OCT.2017 09:42:45



Report No.: SZEM170900995904 Page: 30 of 86



Date: 12.OCT.2017 09:43:27





Report No.: SZEM170900995904 Page: 31 of 86

3 Modulation Characteristics

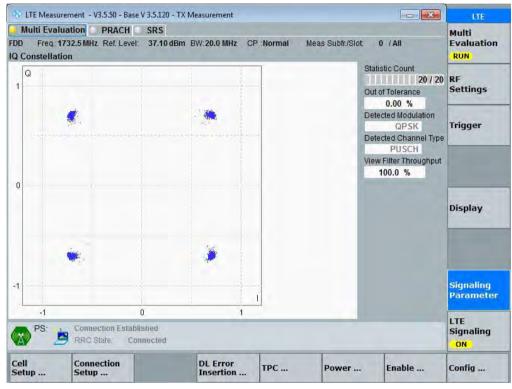
Part I - Test Plots

3.1 For LTE

3.1.1 Test Band = LTE band4

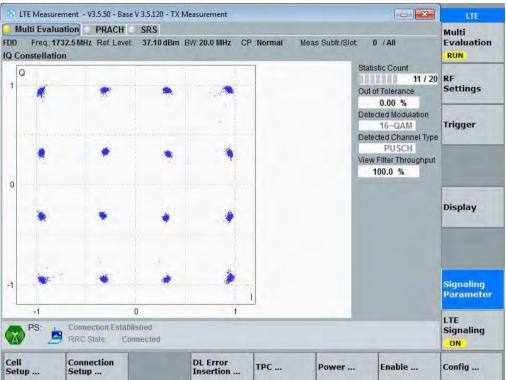
3.1.1.1 Test Mode = LTE /TM1 20MHz

3.1.1.1.1 Test Channel = MCH





Report No.: SZEM170900995904 Page: 32 of 86



3.1.1.2 Test Mode = LTE /TM2 20MHz

3.1.1.2.1 Test Channel = MCH



Report No.: SZEM170900995904 Page: 33 of 86

4 Bandwidth

Part I - Test Results

Test Band	Test Mode	Test Channel	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
		LCH	1.10	1.28	PASS
	TM1/1.4MHz	MCH	1.10	1.27	PASS
		HCH	1.09	1.27	PASS
		LCH	1.10	1.27	PASS
	TM2/1.4MHz	MCH	1.09	1.26	PASS
		HCH	1.10	1.28	PASS
		LCH	2.69	2.91	PASS
	TM1/ 3MHz	MCH	2.69	2.91	PASS
		HCH	2.69	2.91	PASS
		LCH	2.69	2.91	PASS
	TM2/3MHz	MCH	2.69	2.93	PASS
		HCH	2.68	2.92	PASS
		LCH	4.50	5.00	PASS
	TM1/ 5MHz	MCH	4.50	5.00	PASS
		HCH	4.48	4.97	PASS
	TM2/ 5MHz	LCH	4.50	5.00	PASS
		MCH	4.48	4.90	PASS
		HCH	4.49	4.99	PASS
Band 4		LCH	8.95	9.79	PASS
	TM1/10MHz	MCH	8.93	9.63	PASS
		HCH	8.95	9.79	PASS
		LCH	8.93	9.71	PASS
	TM2/ 10MHz	MCH	8.93	9.75	PASS
		HCH	8.95	9.75	PASS
		LCH	13.43	14.87	PASS
	TM1/ 15MHz	MCH	13.49	15.02	PASS
		HCH	13.52	14.96	PASS
		LCH	13.49	14.84	PASS
	TM2/ 15MHz	MCH	13.49	14.84	PASS
		HCH	13.52	14.81	PASS
		LCH	17.90	19.42	PASS
	TM1/ 20MHz	MCH	17.94	19.70	PASS
		HCH	17.90	19.34	PASS
		LCH	17.94	19.50	PASS
	TM2/ 20MHz	MCH	17.90	19.42	PASS
		HCH	17.94	19.46	PASS



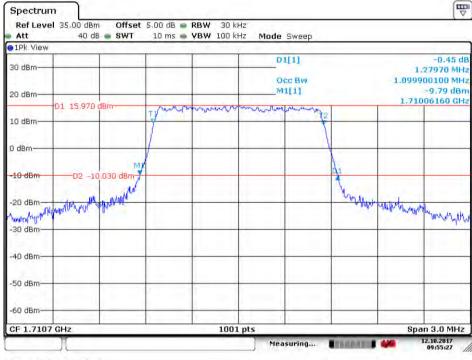
Report No.: SZEM170900995904 34 of 86 Page:

4.1 For LTE

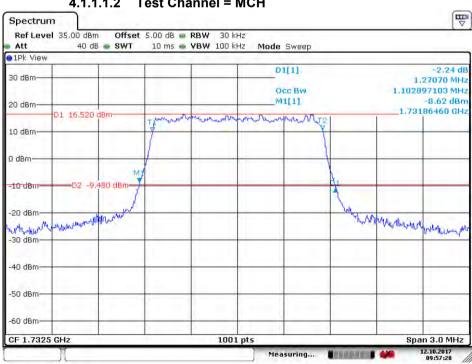
4.1.1 Test Band = LTE band4

Test Mode = LTE/TM1 1.4MHz 4.1.1.1

4.1.1.1.1 Test Channel = LCH



Date: 12.OCT.2017 09:55:28



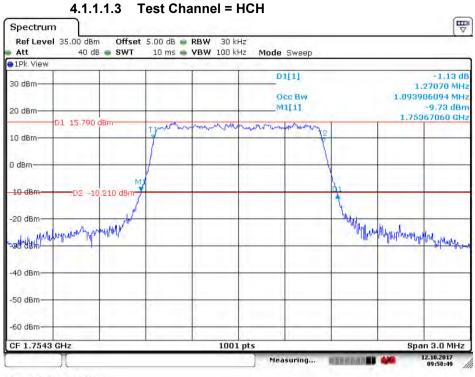
4.1.1.1.2 Test Channel = MCH

Date: 12 OCT 2017 09:57:28

"This document is issued by the Company subject to its General Conditions of Service printed overleaf,-available on request or accessible at http://www.sqs.com/en/Terms-and-Conditions.aspx and, In socument is issued by the Company subject to test central Conditions for Service printed ovenear, available on request or accessible at <u>http://www.sgs.com/en/iems-and-conditions.aspx</u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com/en/iems-and-conditions.aspx</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com/en/iems-and-conditions.aspx</u> and limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

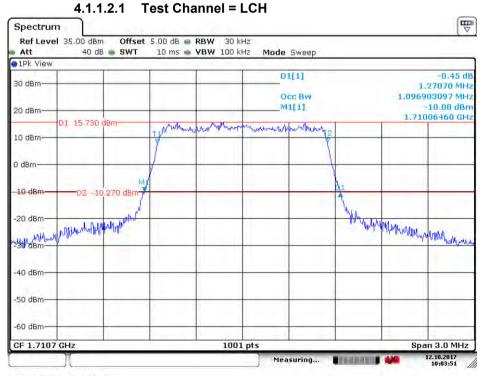


Report No.: SZEM170900995904 Page: 35 of 86



Date: 12.OCT.2017 09:58:49

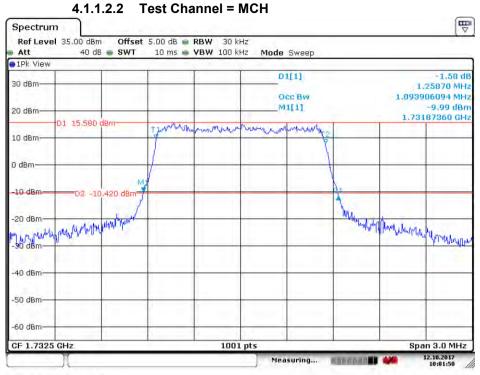
4.1.1.2 Test Mode = LTE/TM2 1.4MHz



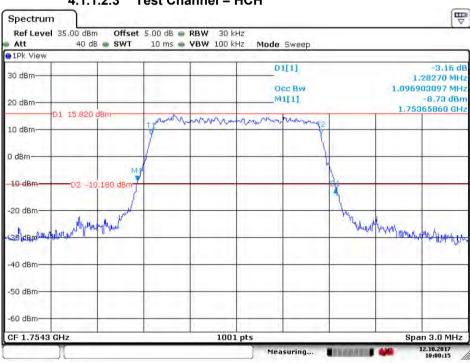
Date: 12.OCT.2017 10:03:51



Report No.: SZEM170900995904 Page: 36 of 86



Date: 12.OCT.2017 10:01:50

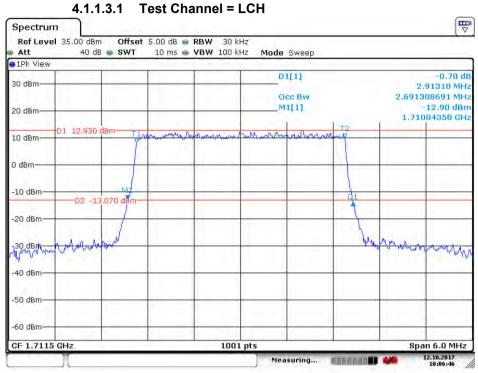


4.1.1.2.3 Test Channel = HCH

Date: 12.0CT.2017 10:00:15

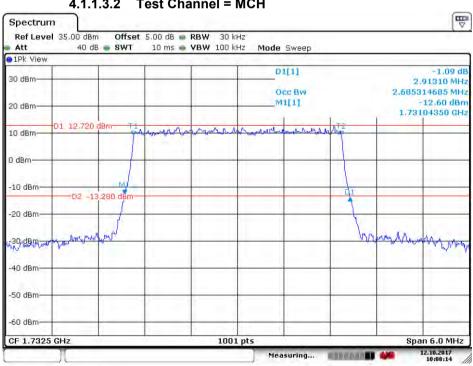


Report No.: SZEM170900995904 Page: 37 of 86



4.1.1.3 Test Mode = LTE/TM1 3MHz

Date: 12.OCT.2017 10:06:46



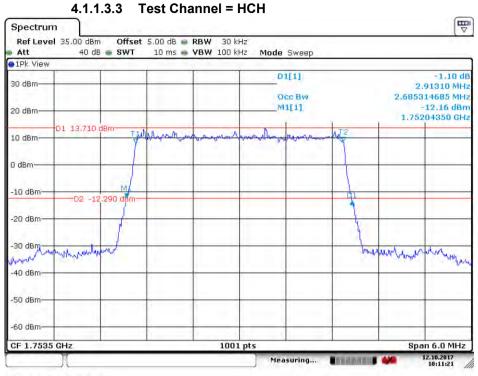
4.1.1.3.2 Test Channel = MCH

Date: 12 OCT 2017 10:08:15

"This document is issued by the Company subject to its General Conditions of Service printed overleaf,-available on request or accessible at http://www.sqs.com/en/Terms-and-Conditions.aspx and, This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com/en/Terms-and-Conditions.aspx</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com/en/Terms-and-Conditions/Terms/Terms-and-Conditions/Terms-an</u>

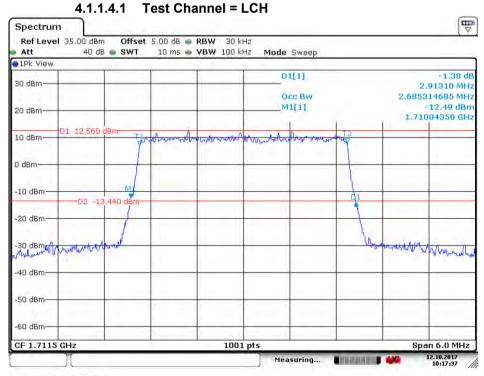


Report No.: SZEM170900995904 Page: 38 of 86



Date: 12.OCT.2017 10:11:22

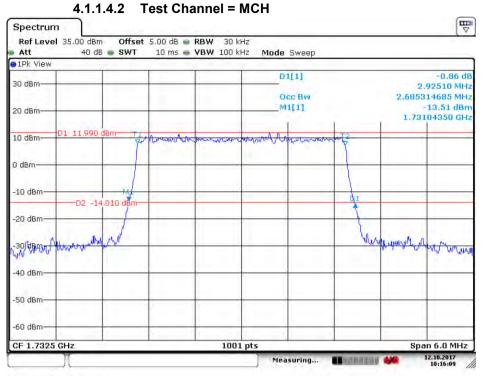
4.1.1.4 Test Mode = LTE/TM2 3MHz



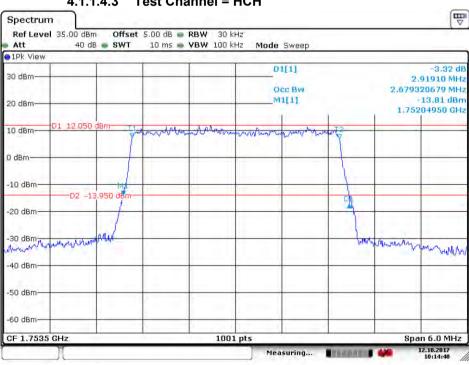
Date: 12.OCT.2017 10:17:37



Report No.: SZEM170900995904 Page: 39 of 86



Date: 12.OCT.2017 10:16:10



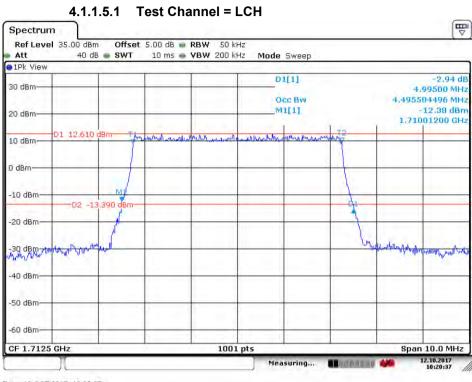
4.1.1.4.3 Test Channel = HCH

Date: 12.OCT.2017 10:14:40

"This document is issued by the Company subject to its General Conditions of Service printed overleaf,-available on request or accessible at http://www.sqs.com/en/Terms-and-Conditions.aspx and, In socument is issued by the Company subject to test central Conditions for Service printed ovenear, available on request or accessible at <u>http://www.sgs.com/en/iems-and-conditions.aspx</u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com/en/iems-and-conditions.aspx</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com/en/iems-and-conditions.aspx</u> and limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



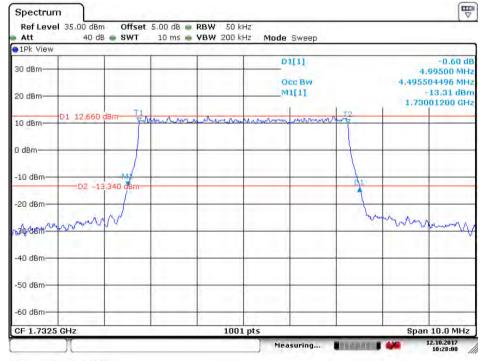
Report No.: SZEM170900995904 Page: 40 of 86



4.1.1.5 Test Mode = LTE/TM1 5MHz

Date: 12.OCT.2017 10:20:37



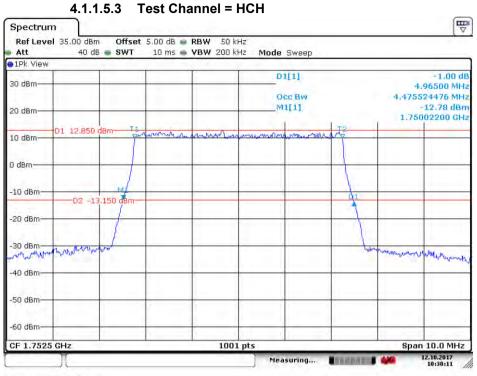


Date: 12.OCT.2017 10:28:01

"This document is issued by the Company subject to its General Conditions of Service printed overleaf,-available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions/Terms-a

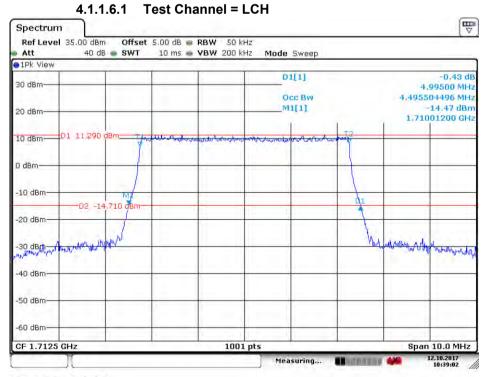


Report No.: SZEM170900995904 Page: 41 of 86



Date: 12.OCT.2017 10:30:12

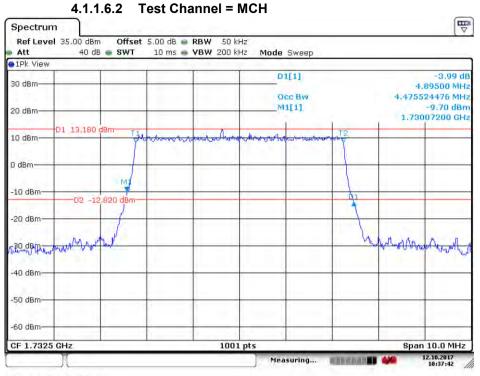
4.1.1.6 Test Mode = LTE/TM2 5MHz



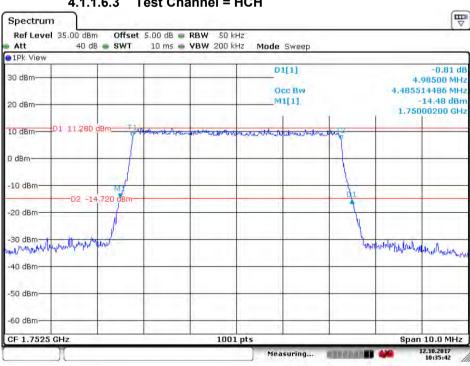
Date: 12.OCT.2017 10:39:03



Report No.: SZEM170900995904 42 of 86 Page:



Date: 12.OCT.2017 10:37:43



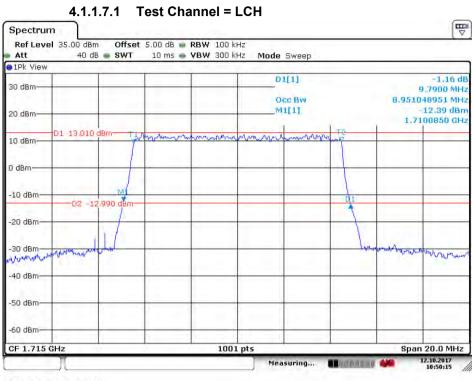
4.1.1.6.3 Test Channel = HCH

Date: 12.OCT.2017 10:35:42

"This document is issued by the Company subject to its General Conditions of Service printed overleaf,-available on request or accessible at http://www.sqs.com/en/Terms-and-Conditions.aspx and, In socument is issued by the Company subject to test central Conditions for Service printed ovenear, available on request or accessible at <u>http://www.sgs.com/en/iems-and-conditions.aspx</u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com/en/iems-and-conditions.aspx</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com/en/iems-and-conditions.aspx</u> and limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



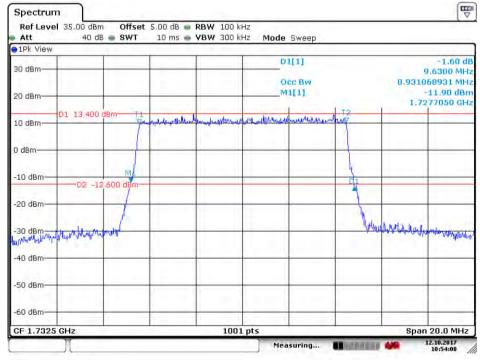
Report No.: SZEM170900995904 Page: 43 of 86



4.1.1.7 Test Mode = LTE/TM1 10MHz

Date: 12.OCT.2017 10:50:15

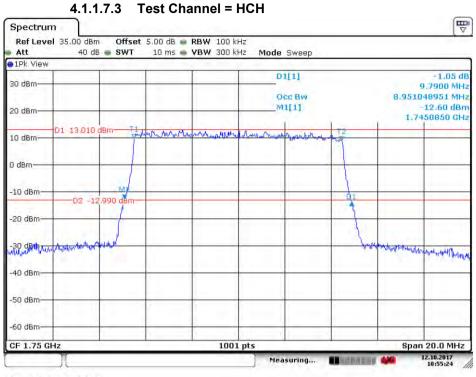




Date: 12.OCT.2017 10:54:09

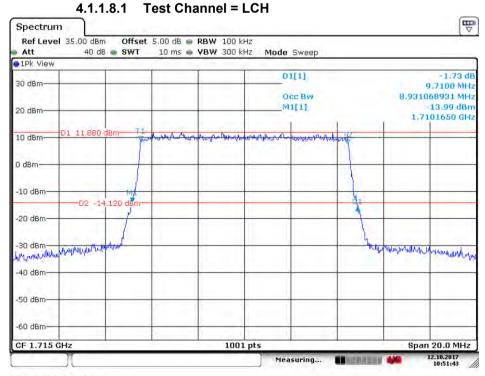


Report No.: SZEM170900995904 Page: 44 of 86



Date: 12.OCT.2017 10:55:24

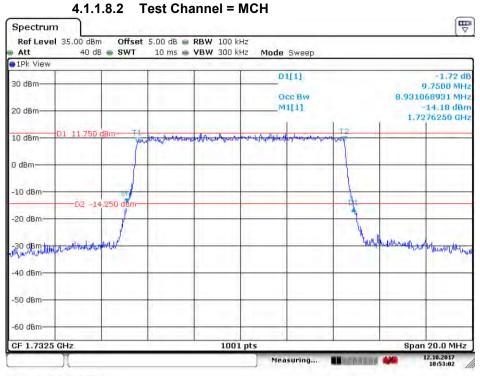
4.1.1.8 Test Mode = LTE/TM2 10MHz



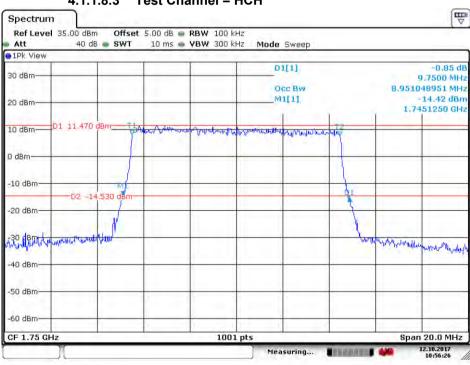
Date: 12.OCT.2017 10:51:44



Report No.: SZEM170900995904 Page: 45 of 86



Date: 12.OCT.2017 10:53:03

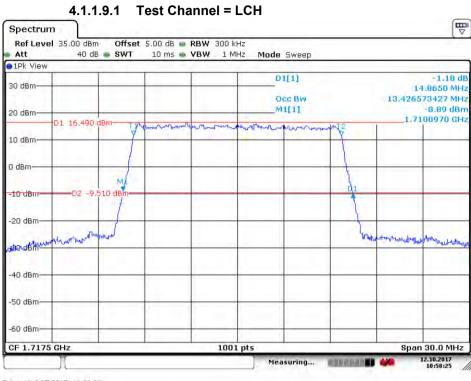


4.1.1.8.3 Test Channel = HCH

Date: 12.OCT.2017 10:56:26



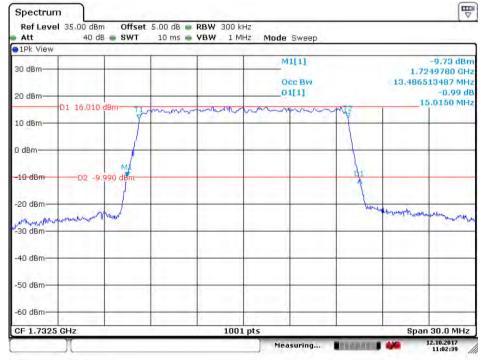
Report No.: SZEM170900995904 Page: 46 of 86



4.1.1.9 Test Mode = LTE/TM1 15MHz

Date: 12.OCT.2017 10:58:26

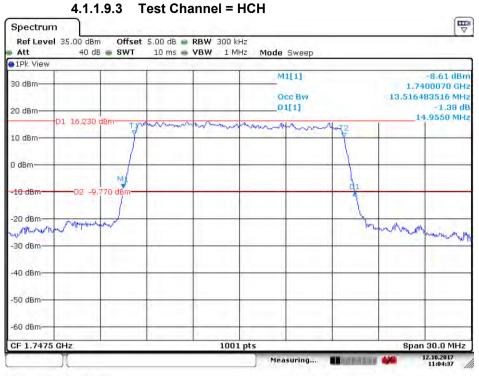




Date: 12.OCT.2017 11:02:39

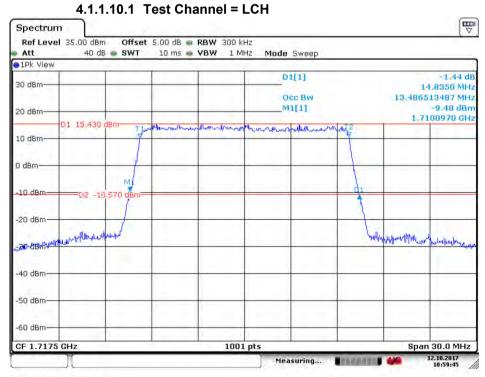


Report No.: SZEM170900995904 Page: 47 of 86



Date: 12.OCT.2017 11:04:37

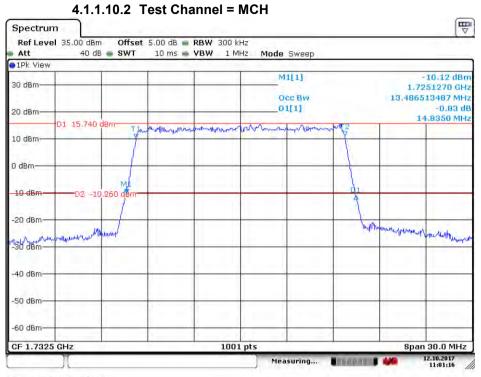
4.1.1.10 Test Mode = LTE/TM2 15MHz



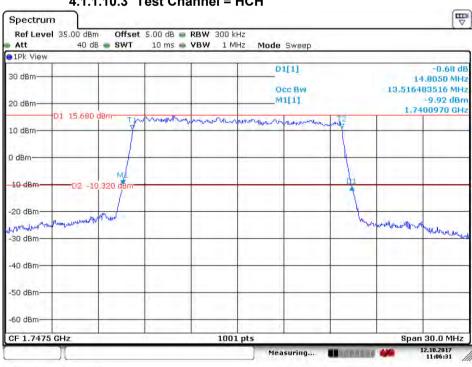
Date: 12.OCT.2017 10:59:45



Report No.: SZEM170900995904 48 of 86 Page:



Date: 12.OCT.2017 11:01:17



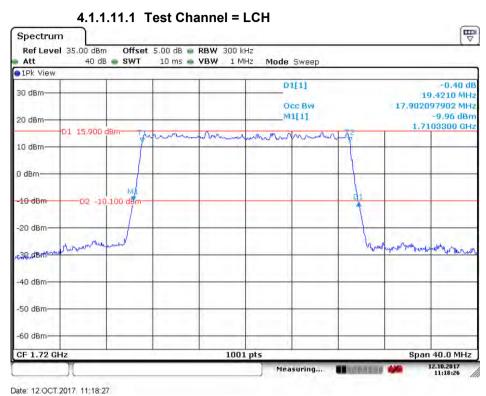
4.1.1.10.3 Test Channel = HCH

Date: 12.OCT.2017 11:06:32

"This document is issued by the Company subject to its General Conditions of Service printed overleaf,-available on request or accessible at http://www.sqs.com/en/Terms-and-Conditions.aspx and, In socument is issued by the Company subject to test central Conditions for Service printed ovenear, available on request or accessible at <u>http://www.sgs.com/en/iems-and-conditions.aspx</u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com/en/iems-and-conditions.aspx</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com/en/iems-and-conditions.aspx</u> and limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

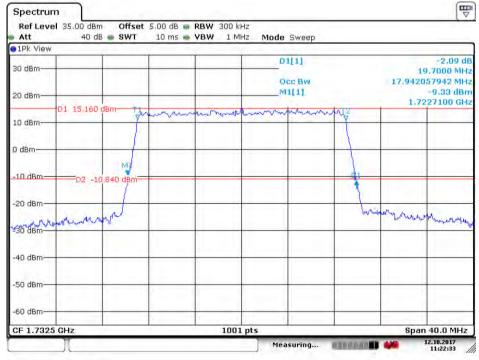


Report No.: SZEM170900995904 Page: 49 of 86



4.1.1.11 Test Mode = LTE/TM1 20MHz

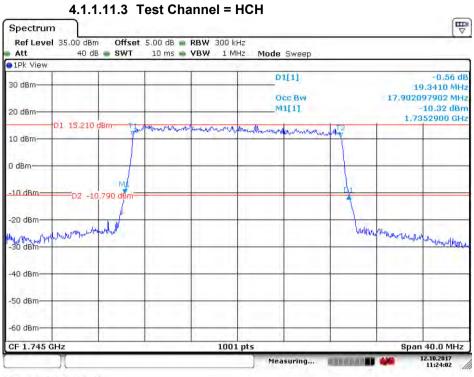
4.1.1.11.2 Test Channel = MCH



Date: 12.OCT.2017 11:22:34

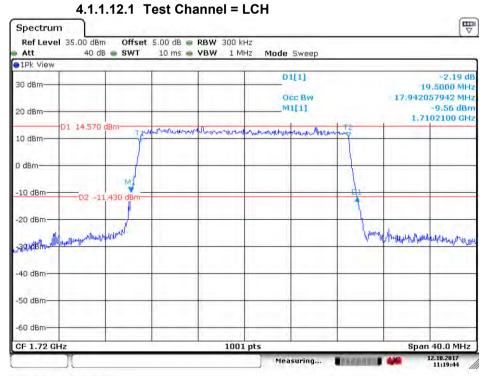


Report No.: SZEM170900995904 Page: 50 of 86



Date: 12.OCT.2017 11:24:02

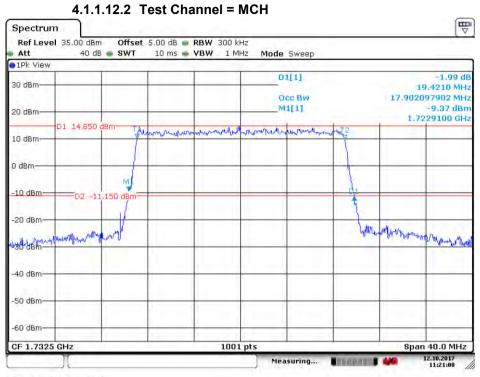
4.1.1.12 Test Mode = LTE/TM2 20MHz



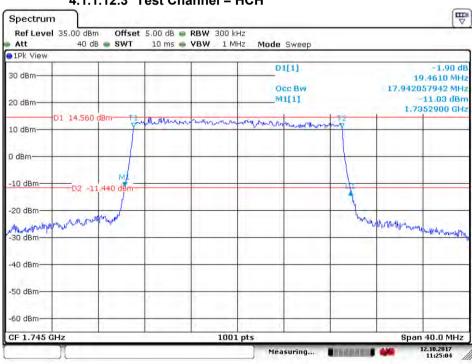
Date: 12.OCT.2017 11:19:45



Report No.: SZEM170900995904 Page: 51 of 86



Date: 12.OCT.2017 11:21:08



4.1.1.12.3 Test Channel = HCH

Date: 12.OCT.2017 11:25:04



Report No.: SZEM170900995904 Page: 52 of 86

5 Band Edges Compliance

Part I –

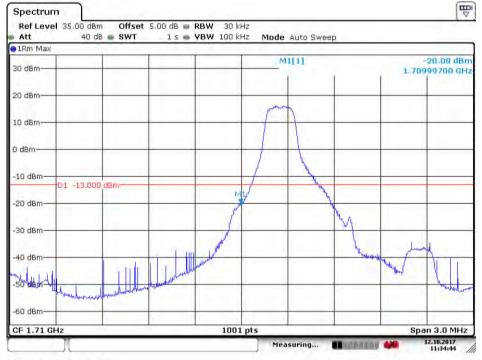
5.1 For LTE

5.1.1 Test Band = LTE band4

5.1.1.1 Test Mode = LTE/TM1 1.4MHz

5.1.1.1.1 Test Channel = LCH

5.1.1.1.1.1 Test RB=1RB



Date: 12.OCT.2017 11:34:43

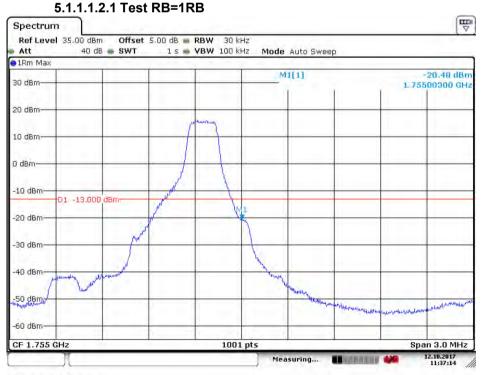


Report No.: SZEM170900995904 Page: 53 of 86

The second secon Spectrum Ref Level 35.00 dBm Offset 5.00 dB = RBW 30 kHz Att 40 dB 🕳 SWT 1 s 🖷 YBW 100 kHz Mode Auto Sweep 1Rm Max M1[1] -28.31 dBn 30 dBm 1.70999700 GH 20 dBm 10 dBm 0 dBm--10 dBm D1 -13.000 dBm--20 dBm -30 dBm -40 dBm--50 dBm -60 dBm 1001 pts Span 3.0 MHz CF 1.71 GHz 12.10.2017 11:33:24 Measuring... **MARKSON**

Date: 12.OCT.2017 11:33:24

5.1.1.1.2 Test Channel = HCH



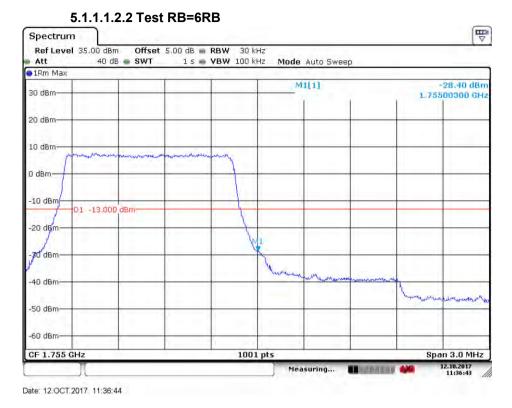
Date: 12.OCT.2017 11:37:14

"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-en-Document aspx. Attention is farawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document is enpotuced except in full, without prior written approval of the Company. Any unauthorized alteration, forgrey or failsfication of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

5.1.1.1.1.2 Test RB=6RB

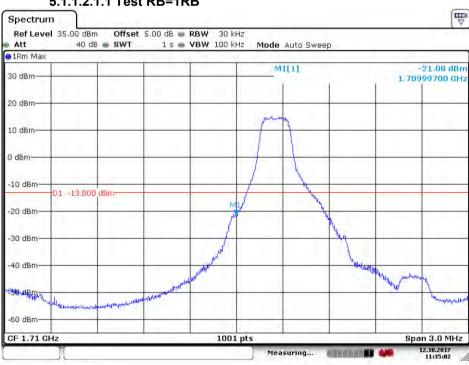


Report No.: SZEM170900995904 54 of 86 Page:



5.1.1.2 Test Mode = LTE/TM2 1.4MHz

5.1.1.2.1 Test Channel = LCH



5.1.1.2.1.1 Test RB=1RB

Date: 12.OCT.2017 11:35:02

"This document is issued by the Company subject to its General Conditions of Service printed overleaf,-available on request or accessible at http://www.sqs.com/en/Terms-and-Conditions.aspx and, This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com/en/Terms-and-Conditions.aspx</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com/en/Terms-and-Conditions/Terms/Terms-and-Conditions/Terms-an</u>

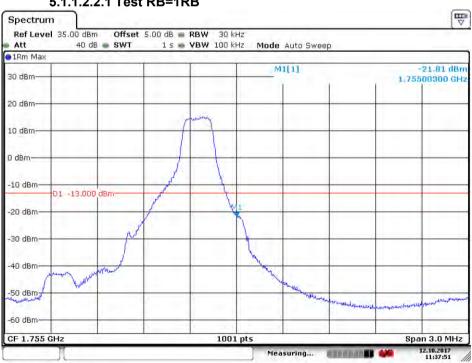


Report No.: SZEM170900995904 Page: 55 of 86

The second secon Spectrum Ref Level 35.00 dBm Offset 5.00 dB = RBW 30 kHz Att 40 dB 🕳 SWT 1 s 🖷 YBW 100 kHz Mode Auto Sweep 1Rm Max M1[1] -28,74 dBn 30 dBm 1 70999700 GH 20 dBm 10 dBm 0 dBm--10 dBm D1 -13.000 dBm--20 dBm -30 dBm bull 40 dBm 144 Janeson 14 145 -50 dBm -60 dBm-1001 pts Span 3.0 MHz CF 1.71 GHz 12.10.2017 11:35:24 Measuring... **MARKSON**

Date: 12.OCT.2017 11:35:24

5.1.1.2.2 Test Channel = HCH



5.1.1.2.2.1 Test RB=1RB

Date: 12.OCT.2017 11:37:52

"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-en-Document aspx. Attention is farawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document is enpotuced except in full, without prior written approval of the Company. Any unauthorized alteration, forgrey or failsfication of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

5.1.1.2.1.2 Test RB=6RB



5.1.1.2.2.2 Test RB=6RB

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

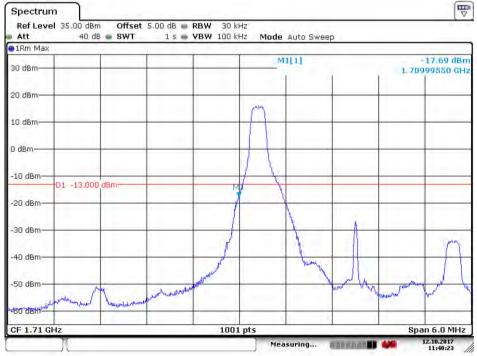
Report No.: SZEM170900995904 Page: 56 of 86

The second secon Spectrum Ref Level 35.00 dBm Offset 5.00 dB = RBW 30 kHz Att 40 dB 🕳 SWT 1 s 🖷 YBW 100 kHz Mode Auto Sweep 1Rm Max M1[1] -29,98 dBm 30 dBm 1,75500300 GH 20 dBm 10 dBm 0 dBm -10 dBm 01 -13.000 dBm--20 dBm -30 dBm 40 dBm -50 dBm--60 dBm-1001 pts Span 3.0 MHz CF 1.755 GHz 12.10.2017 11:36:13 Measuring... **Manager**

Date: 12.OCT.2017 11:36:13

5.1.1.3 Test Mode = LTE/TM1 3MHz 5.1.1.3.1 Test Channel = LCH

5.1.1.3.1.1 Test RB=1RB



Date: 12.OCT.2017 11:40:24

"This document is issued by the Company subject to its General Conditions of Service printed overleaf,-available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions/Terms-a



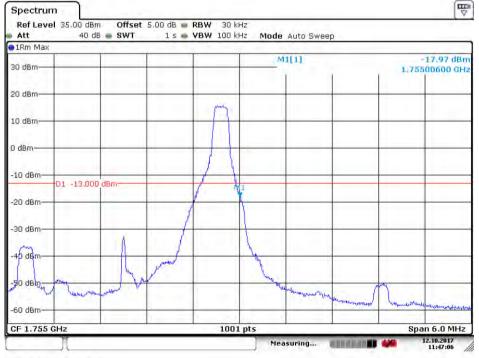
Report No.: SZEM170900995904 Page: 57 of 86

5 Spectrum Ref Level 35.00 dBm Offset 5.00 dB = RBW 30 kHz 40 dB 🕳 SWT Mode Auto Sweep 1 s - VBW 100 kHz Att 1Rm Max -28.84 dBm 1.70999550 GHz M1[1] 30 dBm 20 dBm 10 dBm fi dBm--10 dBm-D1 -13.000 dBm -20 dBm -30 dBm -40 dBm and and in many love and -50 dBm -60 dBm Span 6.0 MHz CF 1.71 GHz 1001 pts 12.10.2017 11:39:14 Measuring... STRADUCT .

Date: 12.0CT.2017 11:39:14

5.1.1.3.2 Test Channel = HCH

5.1.1.3.2.1 Test RB=1RB



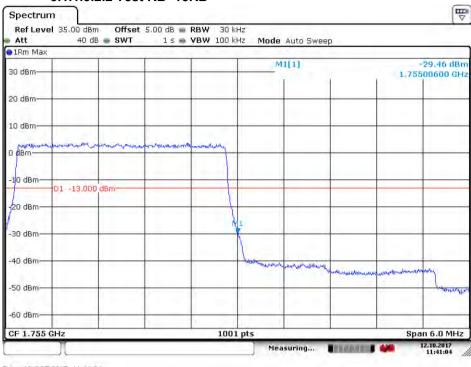
Date: 12.OCT.2017 11:47:06

"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-en-Document aspx. Attention is farawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document is enpotuced except in full, without prior written approval of the Company. Any unauthorized alteration, forgrey or failsfication of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

5.1.1.3.1.2 Test RB=15RB



Report No.: SZEM170900995904 Page: 58 of 86



5.1.1.3.2.2 Test RB=15RB

Date: 12.0CT.2017 11:41:04

5.1.1.4 Test Mode = LTE/TM2 3MHz

5.1.1.4.1 Test Channel = LCH

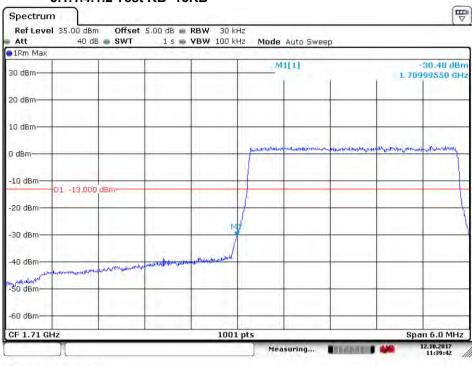
H Spectrum Ref Level 35.00 dBm Offset 5.00 dB B RBW 30 kHz Att 40 dB 🖷 SWT 1 s 🖷 VBW 100 kHz Mode Auto Sweep •1Rm Max M1[1] 18.57 dBm 30 dBm 1.70999550 GHz 20 dBm 10 dBm 0 dBm--10 dBm-01 -13.000 dBm--20 dBm -30 dBm -40 dBm -50 dBm do defit Span 6.0 MHz CF 1.71 GHz 1001 pts 12.10.2017 11:40:03 Measuring... Enskernes 🗰 🚧

5.1.1.4.1.1 Test RB=1RB

Date: 12.OCT.2017 11:40:03



Report No.: SZEM170900995904 Page: 59 of 86

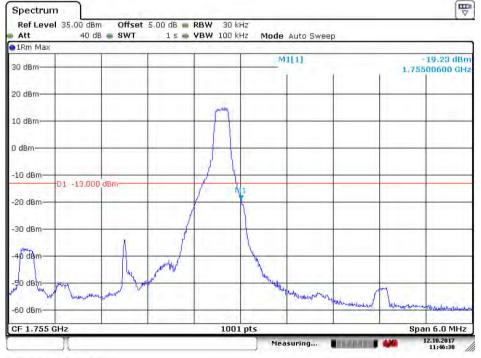


5.1.1.4.1.2 Test RB=15RB

Date: 12.OCT.2017 11:39:42

5.1.1.4.2 Test Channel = HCH

5.1.1.4.2.1 Test RB=1RB

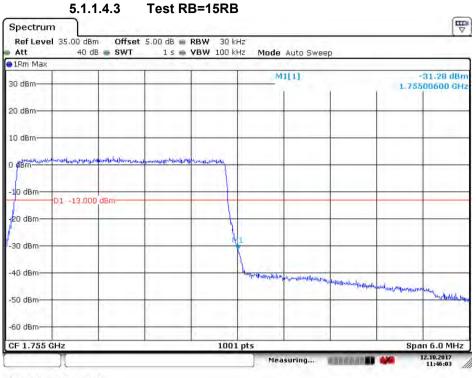


Date: 12.OCT.2017 11:46:31

"This document is issued by the Company subject to its General Conditions of Service printed overleaf,-available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions/Terms-a

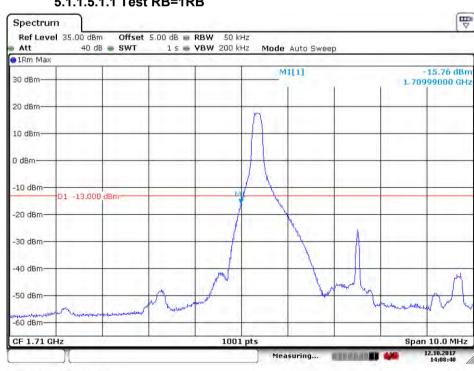


Report No.: SZEM170900995904 60 of 86 Page:



Date: 12.OCT.2017 11:46:03

5.1.1.5 Test Mode = LTE/TM1 5MHz 5.1.1.5.1 Test Channel = LCH



5.1.1.5.1.1 Test RB=1RB

Date: 12.OCT.2017 14:08:40

"This document is issued by the Company subject to its General Conditions of Service printed overleaf,-available on request or accessible at http://www.sqs.com/en/Terms-and-Conditions.aspx and, In socument is issued by the Company subject to test central Conditions for Service printed ovenear, available on request or accessible at <u>http://www.sgs.com/en/iems-and-conditions.aspx</u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com/en/iems-and-conditions.aspx</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com/en/iems-and-conditions.aspx</u> and limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

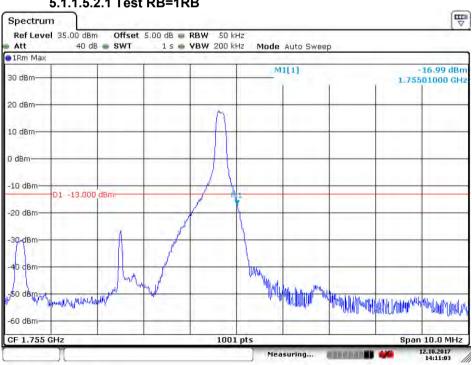


Report No.: SZEM170900995904 61 of 86 Page:

The second secon Spectrum Ref Level 35.00 dBm Offset 5.00 dB = RBW 50 kHz Att 40 dB 🕳 SWT 1 s 🖷 YBW 200 kHz Mode Auto Sweep 1Rm Max M1[1] -27.38 dBm 30 dBm 1.70999000 GH 20 dBm 10 dBm 0 dBm--10 dBm D1 -13.000 dBm--20 dBm -30 dBm 40 dBm -50 dBm -60 dBm 1001 pts Span 10.0 MHz CF 1.71 GHz 12.10.2017 14:05:51 Measuring... REPRESENT

Date: 12.OCT.2017 14:05:51

5.1.1.5.2 Test Channel = HCH



5.1.1.5.2.1 Test RB=1RB

Date: 12.OCT.2017 14:11:03

"This document is issued by the Company subject to its General Conditions of Service printed overleaf,-available on request or accessible at http://www.sqs.com/en/Terms-and-Conditions.aspx and, This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com/en/Terms-and-Conditions.aspx</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com/en/Terms-and-Conditions/Terms/Terms-and-Conditions/Terms-an</u>

5.1.1.5.1.2 Test RB=25RB



Report No.: SZEM170900995904 Page: 62 of 86

5.1.1.5.2.2 Test RB=25RB 5 Spectrum Ref Level 35.00 dBm Offset 5.00 dB = RBW 50 kHz 40 dB 🕳 SWT 1 s - VBW 200 kHz Att Mode Auto Sweep 1Rm Max M1[1] -29.55 dBn 30 dBm 1.75501000 GHz 20 dBm 10 dBm O dBm--10 dBm D1 -13.000 dBm 20 dBm -30 dBm -40 dBm -50 dBm -60 dBm-Span 10.0 MHz CF 1.755 GHz 1001 pts 12.10.2017 Measuring... STRADUCT.

Date: 12.OCT.2017 14:09:34

5.1.1.6 Test Mode = LTE/TM2 5MHz

5.1.1.6.1 Test Channel = LCH

H. Spectrum Ref Level 35.00 dBm Offset 5.00 dB 🗰 RBW 50 kHz Att 40 dB 🖷 SWT 1 s 🖷 VBW 200 kHz Mode Auto Sweep •1Rm Max M1[1] 15.76 dBm 30 dBm 1.70999000 GHz 20 dBm 10 dBm 0 dBm--10 dBm-01 -13.000 dBm--20 dBm -30 dBm -40 dBm -50 dBm -60 dBm CF 1.71 GHz 1001 pts Span 10.0 MHz 12.10.2017 14:08:21 Measuring... STRAGATES!

5.1.1.6.1.1 Test RB=1RB

Date: 12.OCT.2017 14:08:22

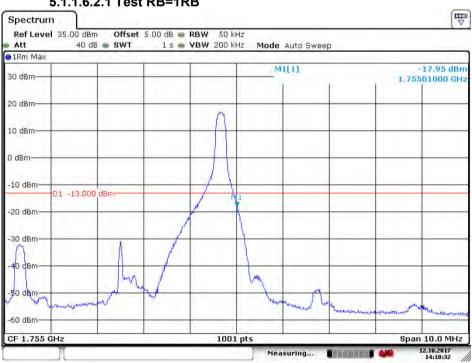


Report No.: SZEM170900995904 Page: 63 of 86

The second secon Spectrum Ref Level 35.00 dBm Offset 5.00 dB RBW 50 kHz Att 40 dB 🕳 SWT 1 s 🖷 YBW 200 kHz Mode Auto Sweep 1Rm Max M1[1] -29,45 dBn 30 dBm 1.70999000 GHa 20 dBm 10 dBm 0 dBm--10 dBm D1 -13.000 dBm--20 dBm -30 dBm -40 dBm-..... -50 dBm -60 dBm 1001 pts Span 10.0 MHz CF 1.71 GHz 12.10.2017 14:07:53 Measuring... STRAPPES'

Date: 12.0CT.2017 14:07:53

5.1.1.6.2 Test Channel = HCH



5.1.1.6.2.1 Test RB=1RB

5.1.1.6.1.2 Test RB=25RB

Date: 12.OCT.2017 14:10:32

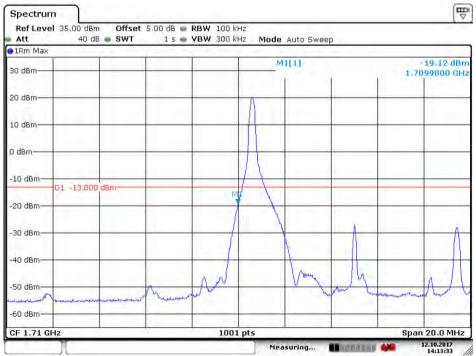


Report No.: SZEM170900995904 Page: 64 of 86

The second secon Spectrum Ref Level 35.00 dBm Offset 5.00 dB = RBW 50 kHz Att 40 dB 🕳 SWT 1 s 🖷 YBW 200 kHz Mode Auto Sweep 1Rm Max M1[1] -31,34 dBn 30 dBm 1.75501000 GH 20 dBm 10 dBm D dBm -10 dBm 01 -13.000 dBm-0 dBm -30 dBm -40 dBm Their line -50 dBm -60 dBm 1001 pts Span 10.0 MHz CF 1.755 GHz 12.10.2017 14:10:02 Measuring... STRADUCT . Date: 12.OCT.2017 14:10:03

5.1.1.7 Test Mode = LTE/TM1 10MHz 5.1.1.7.1 Test Channel = LCH

5.1.1.7.1.1 Test RB=1RB



Date: 12.OCT.2017 14:13:33

"This document is issued by the Company subject to its General Conditions of Service printed overleaf,-available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions/Terms-a

5.1.1.6.2.2 Test RB=25RB

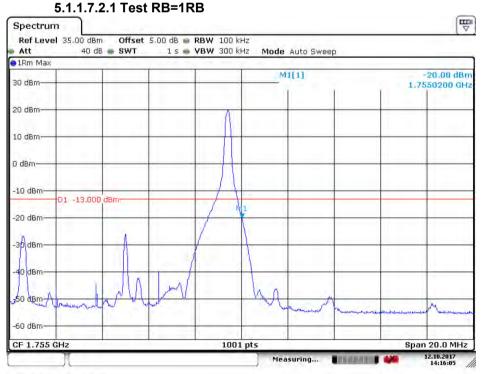


Report No.: SZEM170900995904 Page: 65 of 86

E Start Spectrum Ref Level 35.00 dBm Offset 5.00 dB = RBW 100 kHz Att 40 dB 🕳 SWT 1 s 🖷 YBW 300 kHz Mode Auto Sweep 1Rm Max M1[1] 35.35 dBm 30 dBm 1.7099800 GH 20 dBm 10 dBm 0 dBm--10 dBm D1 -13.000 dBm--20 dBm -30 dBm 40 dBm 50 dBm -60 dBm 1001 pts Span 20.0 MHz CF 1.71 GHz 12.10.2017 14:12:54 Measuring... STRAPPES'

Date: 12.OCT.2017 14:12:54

5.1.1.7.2 Test Channel = HCH



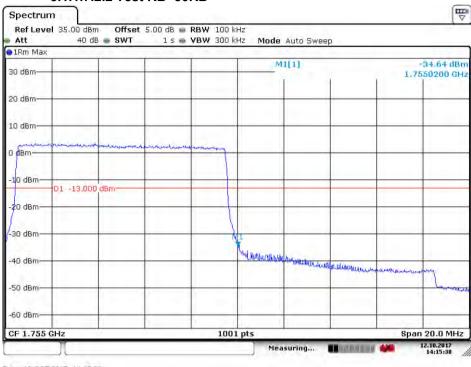
Date: 12.OCT.2017 14:16:06

"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-en-Document aspx. Attention is farawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document is enpotuced except in full, without prior written approval of the Company. Any unauthorized alteration, forgrey or failsfication of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

5.1.1.7.1.2 Test RB=50RB



Report No.: SZEM170900995904 Page: 66 of 86



5.1.1.7.2.2 Test RB=50RB

Date: 12.OCT.2017 14:15:38

5.1.1.8 Test Mode = LTE/TM2 10MHz

5.1.1.8.1 Test Channel = LCH

E S Spectrum Ref Level 35.00 dBm Offset 5.00 dB 🗰 RBW 100 kHz Att 40 dB 🖷 SWT 1 s 🖷 VBW 300 kHz Mode Auto Sweep •1Rm Max M1[1] 19.83 dBm 30 dBm 1.7099800 GHz 20 dBm 10 dBm 0 dBm--10 dBm-D1 -13.000 dBm-IN. -20 dBm -30 dBm -40 dBm MALL ha -50 dBm Hallichingh THE and a stranger and a langer frankling and a stranger -60 dBm CF 1.71 GHz 1001 pts Span 20.0 MHz 12.10.2017 14:14:00 Measuring... III HARADH

5.1.1.8.1.1 Test RB=1RB

Date: 12.0CT.2017 14:14:00



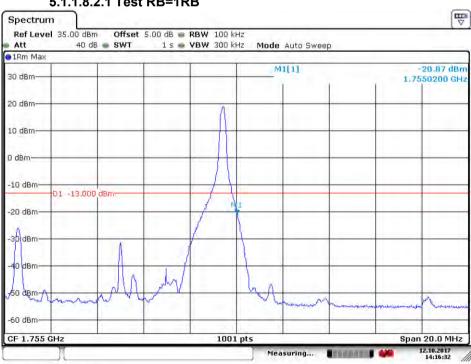
Report No.: SZEM170900995904 Page: 67 of 86

E Start Spectrum Ref Level 35.00 dBm Offset 5.00 dB = RBW 100 kHz Att 40 dB 🕳 SWT 1 s 🖷 YBW 300 kHz Mode Auto Sweep 1Rm Max M1[1] 35.08 dBn 30 dBm 1.7099800 GH 20 dBm 10 dBm 0 dBm--10 dBm D1 -13.000 dBm--20 dBm -30 dBm -40 dBm-SO dBm -60 dBm 1001 pts Span 20.0 MHz CF 1.71 GHz 12.10.2017 14:12:16 Measuring... STRAPPES'

5.1.1.8.1.2 Test RB=50RB

Date: 12.0CT.2017 14:12:16

5.1.1.8.2 Test Channel = HCH



5.1.1.8.2.1 Test RB=1RB

Date: 12.OCT.2017 14:16:32



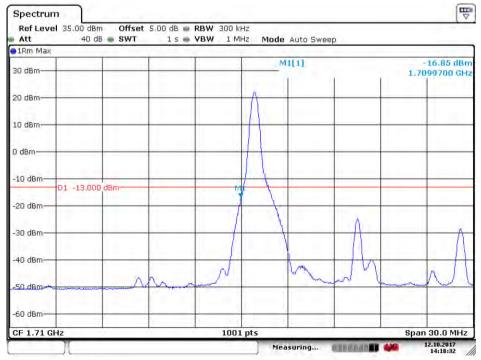
Report No.: SZEM170900995904 Page: 68 of 86

B Spectrum Ref Level 35.00 dBm Offset 5.00 dB = RBW 100 kHz Att 40 dB 🕳 SWT 1 s 🖷 YBW 300 kHz Mode Auto Sweep 1Rm Max M1[1] -34,90 dBm 30 dBm 1.7550200 GH 20 dBm 10 dBm D dBm -10 dBm 01 -13.000 dBm--20 dBm 30 dBm -40 dBm -50 dBm -60 dBm-1001 pts Span 20.0 MHz CF 1.755 GHz 12.10.2017 14:14:42 Measuring... STRADUCT .

Date: 12.0CT.2017 14:14:42

5.1.1.9 Test Mode = LTE/TM1 15MHz 5.1.1.9.1 Test Channel = LCH

5.1.1.9.1.1 Test RB=1RB



Date: 12.0CT.2017 14:18:33

"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-en-Document aspx. Attention is farawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document is enpotuced except in full, without prior written approval of the Company. Any unauthorized alteration, forgrey or failsfication of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

5.1.1.8.2.2 Test RB=50RB

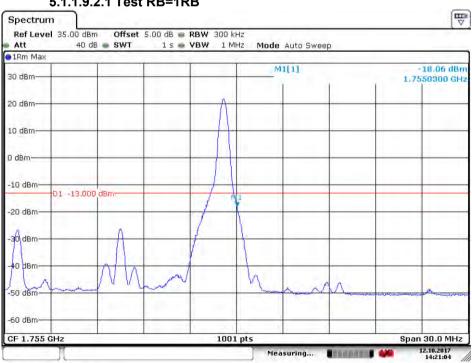


Report No.: SZEM170900995904 Page: 69 of 86

E Start Spectrum Ref Level 35.00 dBm Offset 5.00 dB = RBW 300 kHz Att 40 dB 🕳 SWT 1 s 🖷 VBW 1 MHz Mode Auto Sweep 1Rm Max M1[1] -32.37 dBn 30 dBm 1.7099700 GH 20 dBm 10 dBm 0 dBm--10 dBm D1 -13.000 dBm--20 dBm -30 dBm 40 dBm -50 dBm -60 dBm-1001 pts Span 30.0 MHz CF 1.71 GHz 12.10.2017 14:19:01 Measuring... STRAPPES'

Date: 12.0CT.2017 14:19:02

5.1.1.9.2 Test Channel = HCH



5.1.1.9.2.1 Test RB=1RB

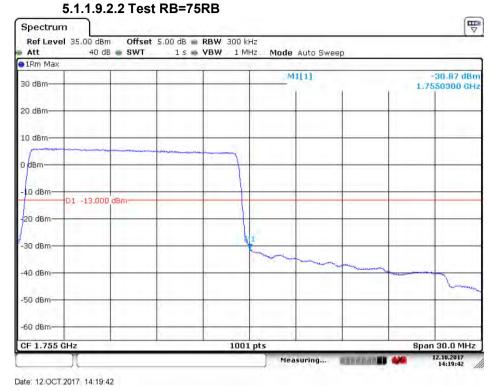
Date: 12.OCT.2017 14:21:05

"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-en-Document aspx. Attention is farawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document is enpotuced except in full, without prior written approval of the Company. Any unauthorized alteration, forgrey or failsfication of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

5.1.1.9.1.2 Test RB=75RB

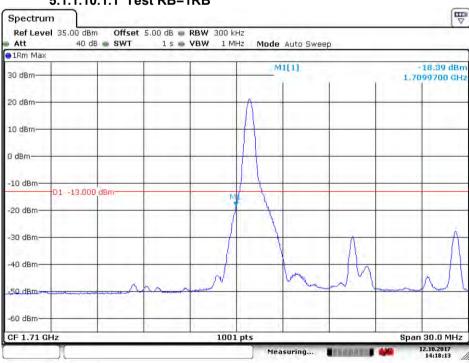


Report No.: SZEM170900995904 Page: 70 of 86



5.1.1.10 Test Mode = LTE/TM2 15MHz

5.1.1.10.1 Test Channel = LCH



5.1.1.10.1.1 Test RB=1RB

Date: 12.0CT.2017 14:18:13



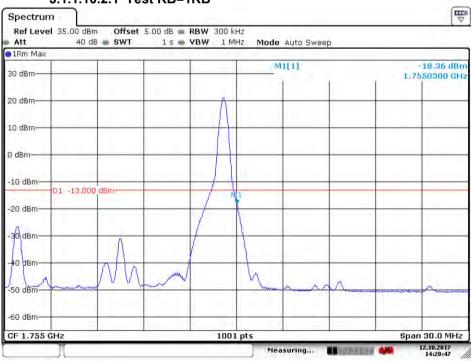
Report No.: SZEM170900995904 Page: 71 of 86

E Start Spectrum Ref Level 35.00 dBm Offset 5.00 dB = RBW 300 kHz Att 40 dB 🕳 SWT 1 s 🖷 VBW 1 MHz Mode Auto Sweep 1Rm Max M1[1] -32,44 dBn 30 dBm 1.7099700 GH 20 dBm 10 dBm 0 dBm--10 dBm D1 -13.000 dBm--20 dBm -30 dBm -40 dBm--50 dBm -60 dBm-1001 pts Span 30.0 MHz CF 1.71 GHz 12.10.2017 14:17:41 Measuring... STRADE ST.

5.1.1.10.1.2 Test RB=75RB

Date: 12.OCT.2017 14:17:41

5.1.1.10.2 Test Channel = HCH



5.1.1.10.2.1 Test RB=1RB

Date: 12.0CT.2017 14:20:47



Report No.: SZEM170900995904 Page: 72 of 86

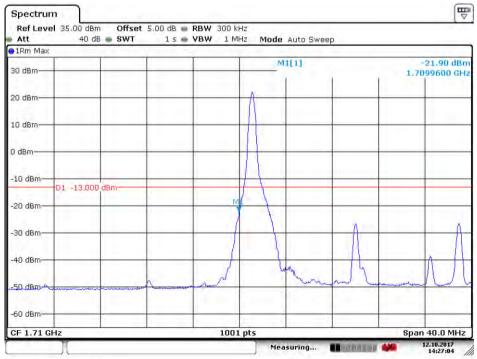
The second secon Spectrum Ref Level 35.00 dBm Offset 5.00 dB = RBW 300 kHz Att 40 dB 🕳 SWT 1 s 🗰 VBW 1 MHz Mode Auto Sweep 1Rm Max M1[1] 33.04 dBm 30 dBm 1.7550300 GH 20 dBm 10 dBm D Bm -10 dBm D1 -13.000 dBm-20 dBm 30 dBm -40 dBm--50 dBm -60 dBm-1001 pts Span 30.0 MHz CF 1.755 GHz 12.10.2017 14:20:04 Measuring... STARATES!

5.1.1.10.2.2 Test RB=75RB

Date: 12.0CT.2017 14:20:05

5.1.1.11 Test Mode = LTE/TM1 20MHz 5.1.1.11.1 Test Channel = LCH

5.1.1.11.1.1 Test RB=1RB



Date: 12.OCT.2017 14:27:05



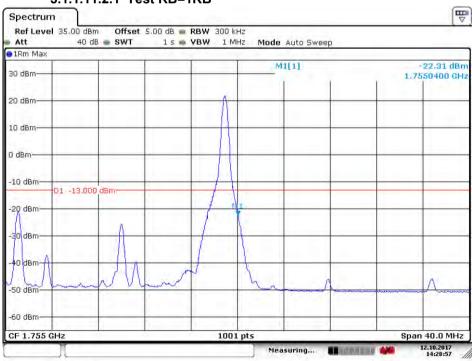
Report No.: SZEM170900995904 Page: 73 of 86



5.1.1.11.1.2 Test RB=100RB

Date: 12.OCT.2017 14:24:12

5.1.1.11.2 Test Channel = HCH

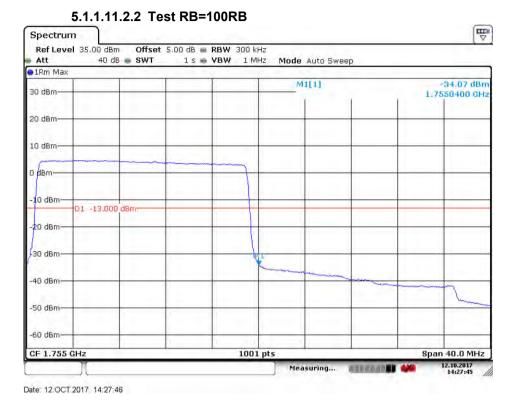


5.1.1.11.2.1 Test RB=1RB

Date: 12.OCT.2017 14:28:58

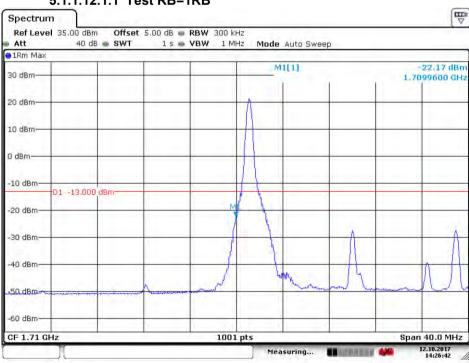


Report No.: SZEM170900995904 74 of 86 Page:



5.1.1.12 Test Mode = LTE/TM2 20MHz

5.1.1.12.1 Test Channel = LCH



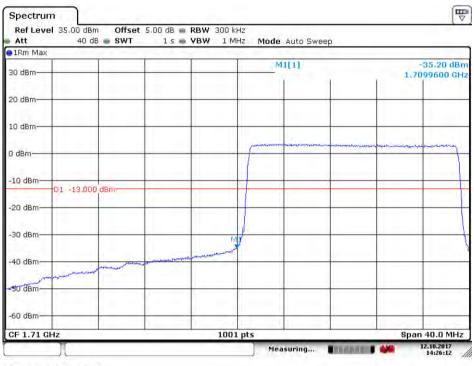
5.1.1.12.1.1 Test RB=1RB

Date: 12.OCT.2017 14:26:41

"This document is issued by the Company subject to its General Conditions of Service printed overleaf,-available on request or accessible at http://www.sqs.com/en/Terms-and-Conditions.aspx and, In socument is issued by the Company subject to test central Conditions for Service printed ovenear, available on request or accessible at <u>http://www.sgs.com/en/iems-and-conditions.aspx</u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com/en/iems-and-conditions.aspx</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com/en/iems-and-conditions.aspx</u> and limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



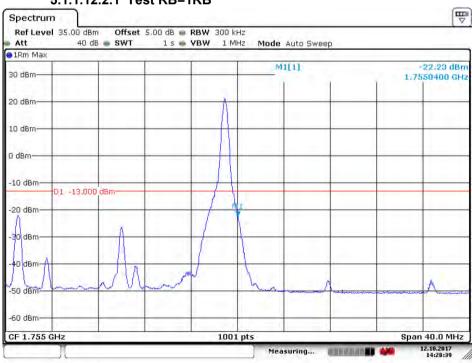
Report No.: SZEM170900995904 Page: 75 of 86



5.1.1.12.1.2 Test RB=100RB

Date: 12.OCT.2017 14:26:12

5.1.1.12.2 Test Channel = HCH

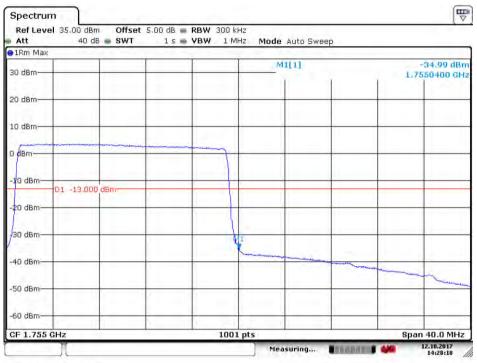


5.1.1.12.2.1 Test RB=1RB

Date: 12.OCT.2017 14:28:40



Report No.: SZEM170900995904 Page: 76 of 86



5.1.1.12.2.2 Test RB=100RB

Date: 12.OCT.2017 14:28:18



Report No.: SZEM170900995904 Page: 77 of 86

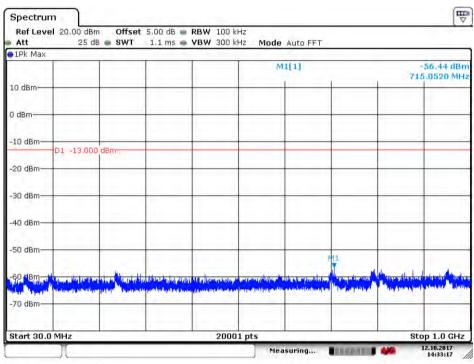
6 Spurious Emission at Antenna Terminal

NOTE: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of < RBW/2 so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = k * (Span / RBW)" with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB. Part L - Test Plots

6.1 For LTE

6.1.1 Test Band = LTE band4

6.1.1.1 Test Mode = LTE / TM1 20MHz RB1#0



6.1.1.1.1 Test Channel = LCH

Date: 12.OCT.2017 14:33:17

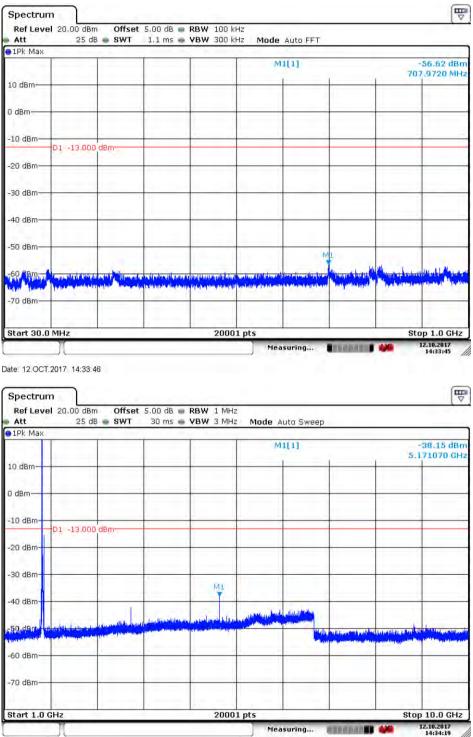


								Re	eport No age:	: SZEM 78 of 3	1709009 36	995904
Coostain										10 01		
Spectrui Ref Levi	el 20.00 d	Bm Offset	5.00 dB 📾	RBW 1 MHz	,	_						
Att		dB 🕳 SWT		VBW 3 MHz		uta Sweep						
●1Pk Max	T	1	ľ.	1	M	1(1)		-	40.76 dBm			
1.1.1									33270 GHz			
10 dBm-												
0 dBm	-		-	-								
-10 dBm-	D1 -13.0	00 dBm										
-20 dBm-			1	-								
-30 dBm				-								
-40 dBm		T		M1	n aktor austra	and the second second						
-50.dBm		and a second with a second	in the total in the sound	n tais attain a dala			Manager and a second of	dente a constant A	all all have all and all and a			
-60 dBm—			1									
-70 dBm—		-										
Start 1.0	011-			2000	1			01	10.0 GHz			
Date: 12.007			5 00 db -=	RBW 1 MHz					2.10.2017 14:32:06			
Att 1Pk Max		dB 🖷 SWT		VBW 3 MHz		uta Sweep						
O TAK Wax	1		[Ī	м	1(1)			47.33 dBm 69980 GHz			
10 dBm	1	-		-								
0 dBm	-		-	-								
-10 dBm-	D1 -13.0	00 dBm-							_			
-20 dBm—			-	-								
-30 dBm—												
-40 dBm—					MI							
in≨0, d8my#	and a second		Alexandrate house		Alford And Street and Street	the Adam	In the second se	<mark>Marak I Internet Marakan Internet Marakan Marakan Marakan Marakan Marakan Marakan Marakan Marakan Marakan Marak</mark>				
-60 dBm			1.00									
-70 dBm—									-			
Start 10.0) GHz		-	2000	1 pts			Stop	20.0 GHz			
	Т					suring			2.10.2017			

Date: 12.0CT.2017 14:32:42



Report No.: SZEM170900995904 Page: 79 of 86



6.1.1.1.2 Test Channel = MCH

Date: 12.OCT.2017 14:34:19

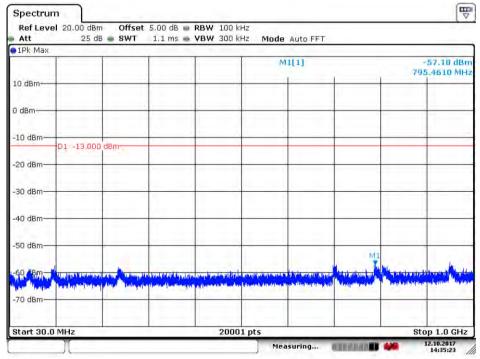
"This document is issued by the Company subject to its General Conditions of Service printed overleaf,-available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions/Terms-a



Spectrum						Repo Page		: SZEM170900995904 80 of 86
Ref Level 20.00		5.00 dB 🗰 RB					[V]	
Att 1Pk Max	25 dB 🖷 SWT	30 ms 🖷 VB	W 3 MHz Mode .	Auto Sweep				
			N	11[1]		-47.0 12.4191	14 dBm 30 GHz	
10 dBm-						1		
0 dBm			_			-	-	
-10 dBm-01 -1	3.000 dBm							
-20 dBm			-	-				
-30 dBm	-			-				
-40 dBm	M1							
-50 dBm market	The second	In the state of the state	and a state of the	helper hurperter.			No.	
-60 dBm	Proving a start of a specific start of a							
-70 dBm	-							
Start 10.0 GHz			20001 pts			Stop 20.	0 GHz	
			Me	asuring 📗	DREAD 🏙 🔞	12.10.3 14:3	017 4:42 ///	

Date: 12.OCT.2017 14:34:43





Date: 12.OCT.2017 14:35:23



Spectru	m	Offset SWT		RBW 1 MH VBW 3 MH	z Mode A M	uta Sweep		-46.59 dBm .901750 GHz	
Spectrum Ref Leve Att 10 dBm	m	Offset SWT		VBW 3 MH	Z Mode A			46.58 dBm .901750 GHz	
Spectrum Ref Levi Att 10 dBm	m	Offset SWT			z Mode A			-46.58 dBm .901750 GHz	
Spectrum Ref Levi Att 10 dBm	m	Offset SWT			z Mode A			-46.58 dBm .901750 GHz	
Spectrum Ref Leve Att 10 dBm- 0 dBm- -10 dBm- -20 dBm- -30 dBm- -40 dBm-	m	Offset SWT			z Mode A			-46.58 dBm .901750 GHz	
Spectrum Ref Leve Att 10 dBm- 0 dBm- -10 dBm- -20 dBm- -30 dBm- -40 dBm-	m	Offset SWT			z Mode A			-46.58 dBm .901750 GHz	
Spectrui Ref Levi Att 10 dBm	m	Offset SWT			z Mode A			-46.58 dBm .901750 GHz	
Spectrui Ref Levi Att 10 dBm	m	Offset SWT			z Mode A		19.	-46.58 dBm .901750 GHz	
Spectrum Ref Leve Att 10 dBm- 0 dBm- -10 dBm- -20 dBm- -30 dBm-	m	Offset SWT			z Mode A		19,	-46.58 dBm .901750 GHz	
Spectrum Ref Leve Att 10 dBm- 0 dBm- -10 dBm- -20 dBm-	m	Offset SWT			z Mode A		19,	-46.58 dBm	
Spectrum Ref Leve Att 10 dBm- 0 dBm- -10 dBm- -20 dBm-	m	Offset SWT			z Mode A		19.	-46.58 dBm	
Spectrui Ref Levi Att 10 dBm	m	Offset SWT			z Mode A		19	-46.58 dBm	
Spectrui Ref Levi Att 10 dBm	m	Offset SWT			z Mode A		19	-46.58 dBm	
Spectrum Ref Leve Att 1Pk Max 10 dBm	m	Offset SWT			z Mode A		19.	-46.58 dBm	
Spectrum Ref Leve Att 1Pk Max 10 dBm	m el 20.00 dBm	Offset			z Mode A		19.	-46.58 dBm	
Spectrum Ref Leve Att 1Pk Max	m el 20.00 dBm	Offset			z Mode A		19.	-46.58 dBm	
Spectrum Ref Leve Att 1Pk Max	m el 20.00 dBm	Offset			z Mode A		19,	-46.58 dBm	
Spectrue Ref Leve Att 1Pk Max	m el 20.00 dBm	Offset			z Mode A		19.	-46.58 dBm	
Spectrui Ref Leve Att	m el 20.00 dBm	Offset			z Mode A		10	-46.58 dBm	
Spectrui Ref Leve Att	m el 20.00 dBm	Offset			z Mode A				
Spectrui Ref Leve Att	m el 20.00 dBm	Offset				uta Sweep			
Spectru	m		5.00 dB =	RBW 1 MH	7				
10		,							1
		,							
ate: 12.0CT	T.2017 14:35:5	7							
_					Mea	suring 💶	NUTLIN 44	12.10.2017 14:35:57	
Start 1.0	GHz			2000	11 pts			12.10.2017	
	<u></u>					1		40.0 511	
-70 dBm—									
-70 dBm									
-60 dBm	-								
August and the second of the							with the state of	The second second	
-50 dB/o	A Station of the Astron	In the part of the	and the second s		and the second	Property of the August	And Daly respiration and	and the particular state	
			- Jake an	den la		and other			
-40 dBm-		M1	_	-					
SU GDIN									
-30 dBm+									
-20 dBm-									
	D1 -13.000	uBin.							
-10 dBm-	-							-	
0 dBm									
to upin-									
10 dBm							3.	.472400 GHz	
	-			1	M	1[1]		-40.52 dBm	
• 1Pk Max	25 dB	SWT	30 ms 🖷	VBW 3 MH	z Mode A	uta Sweep			
Att	el 20.00 dBm			RBW 1 MH		- 1			
Ref Leve	m							-	
Spectrue Ref Leve							F	age:	81 of 86
Ref Leve	m						F	Page:	b.: SZEM17090099581 of 86

Date: 12.0CT.2017 14:36:23



Report No.: SZEM170900995904 Page: 82 of 86

7 Field Strength of Spurious Radiation

7.1 For LTE

Main Supply:

7.1.1 Test Band = LTE band4

7.1.1.1 Test Mode =LTE/TM1 20MHz RB1#0

7.1.1.1.1	Test Channel = LC	H		
Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
1298.000	-66.55	-13.00	-53.55	Vertical
4267.500	-66.79	-13.00	-53.79	Vertical
5632.500	-66.08	-13.00	-53.08	Vertical
1529.000	-65.80	-13.00	-52.80	Horizontal
4365.000	-67.08	-13.00	-54.08	Horizontal
5437.500	-66.73	-13.00	-53.73	Horizontal

7.1.1.1.2 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
1749.000	-63.73	-13.00	-50.73	Vertical
4462.500	-67.16	-13.00	-54.16	Vertical
6607.500	-64.78	-13.00	-51.78	Vertical
1837.000	-62.71	-13.00	-49.71	Horizontal
2816.000	-56.62	-13.00	-43.62	Horizontal
6315.000	-65.39	-13.00	-52.39	Horizontal

7.1.1.1.3	Test Channel = HC	H		
Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
1210.000	-65.93	-13.00	-52.93	Vertical
4462.500	-67.13	-13.00	-54.13	Vertical
6607.500	-64.75	-13.00	-51.75	Vertical
1210.000	-65.93	-13.00	-52.93	Horizontal
4462.500	-67.13	-13.00	-54.13	Horizontal
6607.500	-64.75	-13.00	-51.75	Horizontal



Report No.: SZEM170900995904 Page: 83 of 86

Secondary Supply:

7.1.2 Test Band = LTE band4

7.1.2.1 Test Mode =LTE/TM1 20MHz RB1#0

7.1.2.1.1 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
3585.000	-68.01	-13.00	-55.01	Vertical
5145.000	-63.26	-13.00	-50.26	Vertical
9045.000	-62.87	-13.00	-49.87	Vertical
3585.000	-67.91	-13.00	-54.91	Horizontal
6022.500	-65.24	-13.00	-52.24	Horizontal
10507.500	-62.85	-13.00	-49.85	Horizontal

NOTE:

1) The disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



Report No.: SZEM170900995904 Page: 84 of 86

8 Frequency Stability

8.1 Frequency Error VS. Voltage

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
				VL	-3.03	-0.00176	PASS
		LCH	TN	VN	0.48	0.00028	PASS
				VH	-5.73	-0.00333	PASS
				VL	1.45	0.00084	PASS
	LTE/TM1 20MHz	MCH	TN	VN	-3.84	-0.00222	PASS
				VH	2.63	0.00152	PASS
		НСН		VL	-6.46	-0.00368	PASS
			TN	VN	-2.17	-0.00124	PASS
I TEbondo				VH	-0.75	-0.00043	PASS
LTEband2		LCH	TN	VL	-6.28	-0.00365	PASS
				VN	-2.45	-0.00142	PASS
				VH	-2.16	-0.00126	PASS
				VL	1.57	0.00091	PASS
	LTE/TM2 20MHz	MCH	TN	VN	-1.80	-0.00104	PASS
				VH	2.69	0.00155	PASS
				VL	-4.08	-0.00233	PASS
		HCH	TN	VN	-3.07	-0.00175	PASS
				VH	0.94	0.00054	PASS



Report No.: SZEM170900995904 Page: 85 of 86

8.2 Frequency Error VS. Temperature

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict	
					-30	-0.40	-0.00023	PASS
				-20	-1.44	-0.00084	PASS	
				-10	2.38	0.00138	PASS	
				0	1.65	0.00096	PASS	
		LCH	VN	10	1.25	0.00073	PASS	
				20	4.11	0.00239	PASS	
				30	-0.61	-0.00035	PASS	
				40	-1.14	-0.00066	PASS	
				50	5.59	0.00325	PASS	
				-30	-3.80	-0.00219	PASS	
	LTE/TM1 20MHz			-20	-5.25	-0.00303	PASS	
				-10	-3.49	-0.00201	PASS	
				0	-5.02	-0.00290	PASS	
LTEband2		MCH	VN	10	-2.04	-0.00118	PASS	
				20	-4.94	-0.00285	PASS	
				30	-5.56	-0.00321	PASS	
				40	-1.62	-0.00094	PASS	
				50	-6.02	-0.00347	PASS	
				-30	2.54	0.00145	PASS	
				-20	-1.42	-0.00081	PASS	
				-10	4.53	0.00258	PASS	
				0	-4.23	-0.00241	PASS	
		НСН	VN	10	1.60	0.00091	PASS	
				20	-0.67	-0.00038	PASS	
				30	-2.65	-0.00151	PASS	
				40	-5.53	-0.00315	PASS	
				50	-2.90	-0.00165	PASS	

"This document is issued by the Company subject to its General Conditions of Service printed overleaf,-available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx</aspx, and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions/



Report No.: SZEM170900995904 Page: 86 of 86

					Page:	86 01 86		
Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict	
					-30	-0.10	-0.00006	PASS
				-20	-2.25	-0.00131	PASS	
				-10	3.78	0.00220	PASS	
				0	5.64	0.00328	PASS	
		LCH	VN	10	1.60	0.00093	PASS	
				20	-0.23	-0.00013	PASS	
				30	-0.64	-0.00037	PASS	
				40	2.34	0.00136	PASS	
				50	0.75	0.00044	PASS	
				-30	-2.80	-0.00162	PASS	
			VN	-20	-5.88	-0.00339	PASS	
				-10	-2.29	-0.00132	PASS	
				0	-4.72	-0.00272	PASS	
LTEband2	LTE/TM2 20MHz	MCH		10	-0.24	-0.00014	PASS	
				20	1.77	0.00102	PASS	
				30	-6.64	-0.00383	PASS	
				40	-2.67	-0.00154	PASS	
				50	-3.91	-0.00226	PASS	
				-30	1.78	0.00101	PASS	
				-20	-2.35	-0.00134	PASS	
				-10	1.79	0.00102	PASS	
				0	-2.73	-0.00156	PASS	
		HCH	VN	10	2.81	0.00160	PASS	
				20	-5.47	-0.00312	PASS	
				30	-6.59	-0.00376	PASS	
				40	-4.43	-0.00253	PASS	
				50	-2.60	-0.00148	PASS	

The End