

Report No.: SZEM170900995904 Page: 1 of 68

Appendix B

E-UTRA Band 7

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.sep and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.Terms-enDocument.aspx, Attention is drawn 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 document. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falisfication 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: 2 of 68

Page

CONTENT

1	EFFECTIVE (ISOTROPIC) RADIATED POWER OUTPUT DATA	3
2	PEAK-TO-AVERAGE RATIO	19
	2.1 For LTE	20
	2.1.1 Test Band = LTE band7	20
3	MODULATION CHARACTERISTICS	24
	3.1 For LTE	24
	3.1.1 Test Band = LTE band7	24
4	BANDWIDTH	26
	4.1 For LTE	27
	4.1.1 Test Band = LTE band7	27
5	BAND EDGES COMPLIANCE	40
	5.1 For LTE	40
	5.1.1 Test Band = LTE band7	40
6	SPURIOUS EMISSION AT ANTENNA TERMINAL	57
	6.1 For LTE	57
	6.1.1 Test Band = LTE band7	57
7	FIELD STRENGTH OF SPURIOUS RADIATION	64
	7.1 For LTE	64
	7.1.1 Test Band = LTE band7	64
	7.1.2 Test Band = LTE band7	65
8	FREQUENCY STABILITY	66
	8.1 FREQUENCY ERROR VS. VOLTAGE	66
	8.2 FREQUENCY ERROR VS. TEMPERATURE	67



Report No.: SZEM170900995904 Page: 3 of 68

1 Effective (Isotropic) Radiated Power Output Data

Effective Isotropic Radiated Power of Transmitter (EIRP) for LTE BAND 7

Main Supply:

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				RB1#0	20.22	20.12	33.00	PASS
				RB1#13	20.31	20.18	33.00	PASS
				RB1#24	20.30	20.15	33.00	PASS
			LCH	RB12#0	19.28	19.14	33.00	PASS
				RB12#6	19.29	19.16	33.00	PASS
				RB12#13	19.33	19.19	33.00	PASS
				RB25#0	19.25	19.11	33.00	PASS
				RB1#0	20.29	20.18	33.00	PASS
				RB1#13	20.30	20.15	33.00	PASS
				RB1#24	20.25	20.11	33.00	PASS
BAND7	LTE/TM1	5M	MCH	RB12#0	19.31	19.17	33.00	PASS
				RB12#6	19.32	19.19	33.00	PASS
				RB12#13	19.30	19.16	33.00	PASS
				RB25#0	19.26	19.15	33.00	PASS
				RB1#0	20.44	20.30	33.00	PASS
				RB1#13	20.54	20.40	33.00	PASS
				RB1#24	20.56	20.41	33.00	PASS
			НСН	RB12#0	19.53	19.39	33.00	PASS
				RB12#6	19.56	19.45	33.00	PASS
				RB12#13	19.61	19.48	33.00	PASS
				RB25#0	19.51	19.37	33.00	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 and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.Terms-enDocument.aspx, Attention is drawn 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 document. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falisfication 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: 4 of 68

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				RB1#0	19.40	19.26	33.00	PASS
				RB1#13	19.52	19.39	33.00	PASS
				RB1#24	19.54	19.42	33.00	PASS
			LCH	RB12#0	18.34	18.22	33.00	PASS
				RB12#6	18.36	18.24	33.00	PASS
				RB12#13	18.39	18.26	33.00	PASS
				RB25#0	18.31	18.17	33.00	PASS
				RB1#0	19.54	19.40	33.00	PASS
				RB1#13	19.55	19.41	33.00	PASS
				RB1#24	19.51	19.41	33.00	PASS
BAND7	LTE/TM2	5M	MCH	RB12#0	18.36	18.24	33.00	PASS
				RB12#6	18.36	18.22	33.00	PASS
				RB12#13	18.35	18.22	33.00	PASS
				RB25#0	18.30	18.19	33.00	PASS
				RB1#0	19.69	19.57	33.00	PASS
				RB1#13	19.77	19.66	33.00	PASS
				RB1#24	19.84	19.70	33.00	PASS
			НСН	RB12#0	18.58	18.46	33.00	PASS
				RB12#6	18.62	18.50	33.00	PASS
				RB12#13	18.67	18.53	33.00	PASS
				RB25#0	18.56	18.44	33.00	PASS



Report No.: SZEM170900995904 Page: 5 of 68

					Page:	5 of 68	3	
Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				RB1#0	20.23	20.09	33.00	PASS
				RB1#25	20.34	20.19	33.00	PASS
				RB1#49	20.53	20.39	33.00	PASS
			LCH	RB25#0	19.26	19.16	33.00	PASS
				RB25#13	19.34	19.22	33.00	PASS
				RB25#25	19.40	19.25	33.00	PASS
				RB50#0	19.35	19.23	33.00	PASS
				RB1#0	20.30	20.19	33.00	PASS
				RB1#25	20.28	20.13	33.00	PASS
				RB1#49	20.32	20.20	33.00	PASS
BAND7	LTE/TM1	10M	MCH	RB25#0	19.25	19.11	33.00	PASS
				RB25#13	19.27	19.13	33.00	PASS
				RB25#25	19.26	19.11	33.00	PASS
				RB50#0	19.27	19.14	33.00	PASS
				RB1#0	20.41	20.31	33.00	PASS
				RB1#25	20.46	20.36	33.00	PASS
				RB1#49	20.61	20.50	33.00	PASS
			НСН	RB25#0	19.38	19.26	33.00	PASS
				RB25#13	19.44	19.32	33.00	PASS
				RB25#25	19.52	19.37	33.00	PASS
				RB50#0	19.48	19.35	33.00	PASS



Report No.: SZEM170900995904 Page: 6 of 68

					Page:	6 of 68	3	
Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				RB1#0	19.42	19.32	33.00	PASS
				RB1#25	19.57	19.44	33.00	PASS
				RB1#49	19.75	19.63	33.00	PASS
			LCH	RB25#0	18.31	18.18	33.00	PASS
				RB25#13	18.40	18.26	33.00	PASS
				RB25#25	18.45	18.32	33.00	PASS
				RB50#0	18.39	18.28	33.00	PASS
				RB1#0	19.56	19.45	33.00	PASS
				RB1#25	19.54	19.43	33.00	PASS
				RB1#49	19.54	19.42	33.00	PASS
BAND7	LTE/TM2	10M	MCH	RB25#0	18.31	18.20	33.00	PASS
				RB25#13	18.32	18.21	33.00	PASS
				RB25#25	18.32	18.21	33.00	PASS
				RB50#0	18.31	18.19	33.00	PASS
				RB1#0	19.67	19.56	33.00	PASS
				RB1#25	19.68	19.57	33.00	PASS
				RB1#49	19.85	19.75	33.00	PASS
			НСН	RB25#0	18.43	18.30	33.00	PASS
				RB25#13	18.50	18.37	33.00	PASS
				RB25#25	18.58	18.47	33.00	PASS
				RB50#0	18.52	18.42	33.00	PASS



Report No.: SZEM170900995904 Page: 7 of 68

					Page:	7 of 68	5	
Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				RB1#0	20.43	20.33	33.00	PASS
				RB1#38	20.61	20.50	33.00	PASS
				RB1#74	20.89	20.75	33.00	PASS
			LCH	RB36#0	19.49	19.38	33.00	PASS
				RB36#18	19.62	19.48	33.00	PASS
				RB36#39	19.89	19.75	33.00	PASS
				RB75#0	19.63	19.48	33.00	PASS
				RB1#0	20.22	20.10	33.00	PASS
				RB1#38	20.21	20.09	33.00	PASS
				RB1#74	20.30	20.17	33.00	PASS
BAND7	LTE/TM1	15M	MCH	RB36#0	19.21	19.07	33.00	PASS
				RB36#18	19.24	19.13	33.00	PASS
				RB36#39	19.24	19.13	33.00	PASS
				RB75#0	19.22	19.08	33.00	PASS
				RB1#0	20.17	20.03	33.00	PASS
				RB1#38	20.02	19.90	33.00	PASS
				RB1#74	20.29	20.15	33.00	PASS
			HCH	RB36#0	19.07	18.94	33.00	PASS
				RB36#18	19.07	18.96	33.00	PASS
				RB36#39	19.16	19.01	33.00	PASS
				RB75#0	19.11	18.99	33.00	PASS



Report No.: SZEM170900995904 Page: 8 of 68

					Page:	8 of 68	<u> </u>	
Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				RB1#0	19.65	19.67	33.00	PASS
				RB1#38	20.00	19.86	33.00	PASS
				RB1#74	20.21	20.10	33.00	PASS
			LCH	RB36#0	18.59	18.47	33.00	PASS
				RB36#18	18.71	18.56	33.00	PASS
				RB36#39	18.87	18.72	33.00	PASS
				RB75#0	18.73	18.62	33.00	PASS
				RB1#0	19.50	19.40	33.00	PASS
				RB1#38	19.51	19.38	33.00	PASS
				RB1#74	19.58	19.44	33.00	PASS
BAND7	LTE/TM2	15M	MCH	RB36#0	18.31	18.18	33.00	PASS
				RB36#18	18.34	18.23	33.00	PASS
				RB36#39	18.35	18.25	33.00	PASS
				RB75#0	18.32	18.21	33.00	PASS
				RB1#0	19.44	19.30	33.00	PASS
				RB1#38	19.31	19.21	33.00	PASS
				RB1#74	19.57	19.44	33.00	PASS
			HCH	RB36#0	18.16	18.06	33.00	PASS
				RB36#18	18.14	18.02	33.00	PASS
				RB36#39	18.24	18.09	33.00	PASS
				RB75#0	18.17	18.02	33.00	PASS



Report No.: SZEM170900995904 Page: 9 of 68

					Page:	9 of 68	3	
Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				RB1#0	20.71	20.59	33.00	PASS
				RB1#50	20.85	20.71	33.00	PASS
				RB1#99	20.88	20.76	33.00	PASS
			LCH	RB50#0	19.77	19.67	33.00	PASS
				RB50#25	19.91	19.80	33.00	PASS
				RB50#50	19.93	19.81	33.00	PASS
				RB100#0	19.89	19.74	33.00	PASS
				RB1#0	20.38	20.27	33.00	PASS
				RB1#50	20.49	20.38	33.00	PASS
				RB1#99	20.69	20.55	33.00	PASS
BAND7	LTE/TM1	20M	МСН	RB50#0	19.44	19.33	33.00	PASS
				RB50#25	19.47	19.34	33.00	PASS
				RB50#50	19.52	19.38	33.00	PASS
				RB100#0	19.48	19.34	33.00	PASS
				RB1#0	20.64	20.52	33.00	PASS
				RB1#50	20.35	20.24	33.00	PASS
				RB1#99	20.68	20.56	33.00	PASS
			НСН	RB50#0	19.43	19.29	33.00	PASS
				RB50#25	19.31	19.18	33.00	PASS
				RB50#50	19.39	19.28	33.00	PASS
				RB100#0	19.38	19.26	33.00	PASS



Report No.: SZEM170900995904 Page: 10 of 68

					Page:	10 of 6	8	
Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				RB1#0	19.88	19.78	33.00	PASS
				RB1#50	19.96	19.86	33.00	PASS
				RB1#99	19.98	19.85	33.00	PASS
			LCH	RB50#0	18.81	18.69	33.00	PASS
				RB50#25	18.97	18.86	33.00	PASS
				RB50#50	18.95	18.80	33.00	PASS
				RB100#0	18.89	18.78	33.00	PASS
				RB1#0	19.54	19.41	33.00	PASS
				RB1#50	19.71	19.60	33.00	PASS
				RB1#99	19.85	19.74	33.00	PASS
BAND7	LTE/TM2	20M	МСН	RB50#0	18.46	18.36	33.00	PASS
				RB50#25	18.49	18.38	33.00	PASS
				RB50#50	18.53	18.40	33.00	PASS
				RB100#0	18.48	18.33	33.00	PASS
				RB1#0	19.82	19.70	33.00	PASS
				RB1#50	19.54	19.42	33.00	PASS
				RB1#99	19.83	19.70	33.00	PASS
			НСН	RB50#0	18.44	18.32	33.00	PASS
				RB50#25	18.33	18.21	33.00	PASS
				RB50#50	18.42	18.30	33.00	PASS
				RB100#0	18.40	18.27	33.00	PASS



Report No.: SZEM170900995904 Page: 11 of 68

Test Band(LTE)	y Supply: Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				RB1#0	20.33	18.59	33.00	PASS
				RB1#13	20.27	18.54	33.00	PASS
				RB1#24	20.13	18.40	33.00	PASS
			LCH	RB12#0	19.38	17.66	33.00	PASS
				RB12#6	19.33	17.63	33.00	PASS
				RB12#13	19.29	17.57	33.00	PASS
				RB25#0	19.30	17.59	33.00	PASS
				RB1#0	20.08	18.33	33.00	PASS
				RB1#13	20.08	18.37	33.00	PASS
				RB1#24	19.98	18.27	33.00	PASS
BAND7	LTE/TM1	5M	MCH	RB12#0	19.15	17.42	33.00	PASS
				RB12#6	19.17	17.45	33.00	PASS
				RB12#13	19.13	17.39	33.00	PASS
				RB25#0	19.10	17.36	33.00	PASS
				RB1#0	20.20	18.48	33.00	PASS
				RB1#13	20.12	18.40	33.00	PASS
				RB1#24	19.98	18.26	33.00	PASS
			НСН	RB12#0	19.24	17.50	33.00	PASS
				RB12#6	19.18	17.48	33.00	PASS
				RB12#13	19.14	17.44	33.00	PASS
				RB25#0	19.15	17.44	33.00	PASS

Secondary Supply:



Report No.: SZEM170900995904 Page: 12 of 68

					Page:	12 of 6	8	
Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				RB1#0	19.60	17.86	33.00	PASS
				RB1#13	19.52	17.81	33.00	PASS
				RB1#24	19.42	17.71	33.00	PASS
			LCH	RB12#0	18.39	16.67	33.00	PASS
				RB12#6	18.33	16.62	33.00	PASS
				RB12#13	18.29	16.58	33.00	PASS
				RB25#0	18.29	16.54	33.00	PASS
				RB1#0	19.33	17.61	33.00	PASS
				RB1#13	19.34	17.59	33.00	PASS
				RB1#24	19.27	17.53	33.00	PASS
BAND7	LTE/TM2	5M	MCH	RB12#0	18.16	16.46	33.00	PASS
				RB12#6	18.17	16.43	33.00	PASS
				RB12#13	18.15	16.44	33.00	PASS
				RB25#0	18.10	16.39	33.00	PASS
				RB1#0	19.48	17.77	33.00	PASS
				RB1#13	19.42	17.70	33.00	PASS
				RB1#24	19.29	17.57	33.00	PASS
			НСН	RB12#0	18.24	16.52	33.00	PASS
				RB12#6	18.19	16.44	33.00	PASS
				RB12#13	18.13	16.38	33.00	PASS
				RB25#0	18.15	16.45	33.00	PASS



Report No.: SZEM170900995904 Page: 13 of 68

					Page:	13 of 6	8	
Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				RB1#0	20.37	18.62	33.00	PASS
				RB1#25	20.25	18.51	33.00	PASS
				RB1#49	20.09	18.38	33.00	PASS
			LCH	RB25#0	19.35	17.63	33.00	PASS
				RB25#13	19.26	17.55	33.00	PASS
				RB25#25	19.20	17.49	33.00	PASS
				RB50#0	19.30	17.56	33.00	PASS
				RB1#0	20.09	18.38	33.00	PASS
				RB1#25	20.13	18.40	33.00	PASS
				RB1#49	20.06	18.33	33.00	PASS
BAND7	LTE/TM1	10M	MCH	RB25#0	19.16	17.46	33.00	PASS
				RB25#13	19.18	17.45	33.00	PASS
				RB25#25	19.13	17.40	33.00	PASS
				RB50#0	19.19	17.46	33.00	PASS
				RB1#0	20.34	18.60	33.00	PASS
				RB1#25	20.27	18.56	33.00	PASS
				RB1#49	20.11	18.38	33.00	PASS
			НСН	RB25#0	19.39	17.67	33.00	PASS
				RB25#13	19.35	17.61	33.00	PASS
				RB25#25	19.23	17.52	33.00	PASS
				RB50#0	19.36	17.66	33.00	PASS



Report No.: SZEM170900995904 Page: 14 of 68

					Page:	14 of 6	8	
Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				RB1#0	19.58	17.84	33.00	PASS
				RB1#25	19.45	17.72	33.00	PASS
				RB1#49	19.28	17.56	33.00	PASS
			LCH	RB25#0	18.29	16.57	33.00	PASS
				RB25#13	18.22	16.50	33.00	PASS
				RB25#25	18.15	16.41	33.00	PASS
				RB50#0	18.24	16.52	33.00	PASS
		ГЕ/ТМ2 10M	МСН	RB1#0	19.38	17.67	33.00	PASS
				RB1#25	19.38	17.64	33.00	PASS
				RB1#49	19.28	17.54	33.00	PASS
BAND7	LTE/TM2			RB25#0	18.11	16.36	33.00	PASS
				RB25#13	18.12	16.41	33.00	PASS
				RB25#25	18.08	16.36	33.00	PASS
				RB50#0	18.13	16.38	33.00	PASS
				RB1#0	19.56	17.83	33.00	PASS
				RB1#25	19.47	17.76	33.00	PASS
				RB1#49	19.32	17.58	33.00	PASS
			НСН	RB25#0	18.34	16.61	33.00	PASS
				RB25#13	18.30	16.59	33.00	PASS
				RB25#25	18.19	16.47	33.00	PASS
				RB50#0	18.28	16.57	33.00	PASS



Report No.: SZEM170900995904 Page: 15 of 68

					Page:	15 of 6		
Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				RB1#0	20.64	18.90	33.00	PASS
				RB1#38	20.39	18.66	33.00	PASS
				RB1#74	20.24	18.52	33.00	PASS
			LCH	RB36#0	19.56	17.84	33.00	PASS
				RB36#18	19.49	17.74	33.00	PASS
				RB36#39	19.35	17.60	33.00	PASS
				RB75#0	19.47	17.76	33.00	PASS
				RB1#0	20.13	18.43	33.00	PASS
			мсн	RB1#38	20.16	18.46	33.00	PASS
		TE/TM1 15M		RB1#74	20.06	18.33	33.00	PASS
BAND7	LTE/TM1			RB36#0	19.14	17.41	33.00	PASS
				RB36#18	19.19	17.46	33.00	PASS
				RB36#39	19.14	17.43	33.00	PASS
				RB75#0	19.17	17.42	33.00	PASS
				RB1#0	20.03	18.30	33.00	PASS
				RB1#38	20.07	18.32	33.00	PASS
				RB1#74	19.82	18.09	33.00	PASS
			HCH	RB36#0	19.06	17.32	33.00	PASS
				RB36#18	19.11	17.38	33.00	PASS
				RB36#39	19.00	17.29	33.00	PASS
				RB75#0	19.04	17.33	33.00	PASS



Report No.: SZEM170900995904 Page: 16 of 68

					Page:	16 of 6	8	
Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				RB1#0	19.84	с	33.00	PASS
				RB1#38	19.65	17.93	33.00	PASS
				RB1#74	19.50	17.76	33.00	PASS
			LCH	RB36#0	18.57	16.85	33.00	PASS
				RB36#18	18.50	16.78	33.00	PASS
				RB36#39	18.34	16.61	33.00	PASS
				RB75#0	18.47	16.73	33.00	PASS
		2 15M	МСН	RB1#0	19.36	17.63	33.00	PASS
				RB1#38	19.45	17.73	33.00	PASS
				RB1#74	19.31	17.58	33.00	PASS
BAND7	LTE/TM2			RB36#0	18.19	16.45	33.00	PASS
				RB36#18	18.20	16.49	33.00	PASS
				RB36#39	18.15	16.45	33.00	PASS
				RB75#0	18.17	16.44	33.00	PASS
				RB1#0	19.24	17.53	33.00	PASS
				RB1#38	19.34	17.61	33.00	PASS
				RB1#74	19.11	17.39	33.00	PASS
			HCH	RB36#0	18.04	16.32	33.00	PASS
				RB36#18	18.11	16.38	33.00	PASS
				RB36#39	18.00	16.29	33.00	PASS
				RB75#0	18.02	16.30	33.00	PASS



Report No.: SZEM170900995904 Page: 17 of 68

		ſ	1		Page:	17 of 6	8	
Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				RB1#0	20.59	18.85	33.00	PASS
				RB1#50	20.26	18.53	33.00	PASS
				RB1#99	20.34	18.62	33.00	PASS
			LCH	RB50#0	19.48	17.78	33.00	PASS
				RB50#25	19.32	17.59	33.00	PASS
				RB50#50	19.29	17.54	33.00	PASS
				RB100#0	19.35	17.64	33.00	PASS
				RB1#0	20.16	18.44	33.00	PASS
		LTE/TM1 20M	МСН	RB1#50	20.11	18.37	33.00	PASS
				RB1#99	19.89	18.15	33.00	PASS
BAND7	LTE/TM1			RB50#0	19.10	17.37	33.00	PASS
				RB50#25	19.16	17.46	33.00	PASS
				RB50#50	19.06	17.35	33.00	PASS
				RB100#0	19.08	17.36	33.00	PASS
				RB1#0	20.04	18.30	33.00	PASS
				RB1#50	20.02	18.31	33.00	PASS
				RB1#99	19.82	18.07	33.00	PASS
			НСН	RB50#0	19.12	17.40	33.00	PASS
				RB50#25	19.05	17.34	33.00	PASS
				RB50#50	19.03	17.29	33.00	PASS
				RB100#0	18.98	17.23	33.00	PASS



Report No.: SZEM170900995904 Page: 18 of 68

Page: 18 of 68								
Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				RB1#0	19.83	18.10	33.00	PASS
				RB1#50	19.55	17.82	33.00	PASS
				RB1#99	19.59	17.88	33.00	PASS
			LCH	RB50#0	18.51	16.77	33.00	PASS
				RB50#25	18.36	16.66	33.00	PASS
				RB50#50	18.32	16.61	33.00	PASS
				RB100#0	18.38	16.64	33.00	PASS
				RB1#0	19.24	17.49	33.00	PASS
			МСН	RB1#50	19.42	17.70	33.00	PASS
				RB1#99	19.23	17.52	33.00	PASS
BAND7	LTE/TM2	2 20M		RB50#0	18.13	16.40	33.00	PASS
				RB50#25	18.18	16.47	33.00	PASS
				RB50#50	18.08	16.33	33.00	PASS
				RB100#0	18.09	16.34	33.00	PASS
				RB1#0	19.09	17.34	33.00	PASS
				RB1#50	19.29	17.57	33.00	PASS
				RB1#99	19.10	17.39	33.00	PASS
			НСН	RB50#0	17.99	16.25	33.00	PASS
				RB50#25	18.07	16.34	33.00	PASS
				RB50#50	18.04	16.33	33.00	PASS
				RB100#0	17.98	16.28	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

Detectoric 1 NNNO 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-ConditionsTerms-e-Document.aspx</u>. Attention is drawn 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 cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falisfication 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: 19 of 68

2 Peak-to-Average Ratio

Part I - Test Results

Test Band	Test Mode	Test Channel	Measured[dB]	Limit [dB]	Verdict
		LCH	4.84	13	PASS
	TM1/20M	MCH	4.99	13	PASS
Dond 7		НСН	4.90	13	PASS
Band 7	TM2/20M	LCH	5.83	13	PASS
		MCH	5.97	13	PASS
		НСН	5.80	13	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 and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.Terms-enDocument.aspx, Attention is drawn 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 document. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falisfication 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.



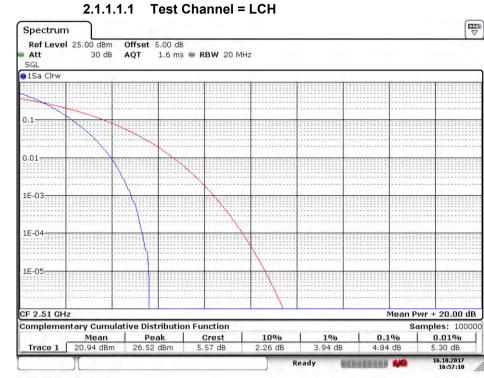
Report No.: SZEM170900995904 Page: 20 of 68

Part II - Test Plots

2.1 For LTE

2.1.1 Test Band = LTE band7

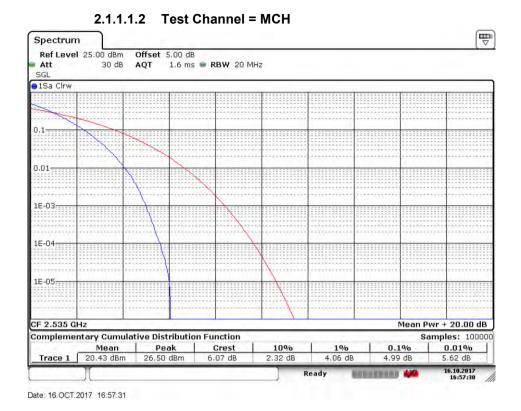
2.1.1.1 Test Mode = LTE/TM1.Bandwidth=20MHz

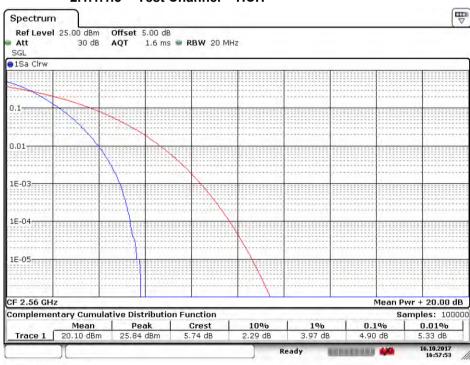


Date: 16.OCT.2017 16:57:10



Report No.: SZEM170900995904 Page: 21 of 68





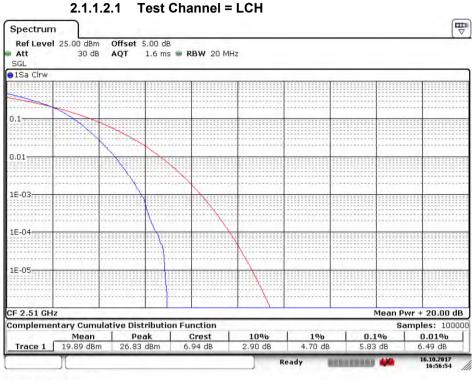
2.1.1.1.3 Test Channel = HCH

Date: 16.OCT.2017 16:57:53

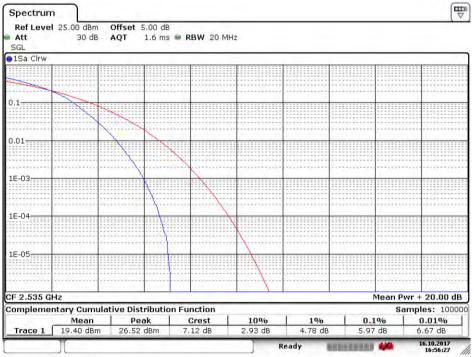


Report No.: SZEM170900995904 Page: 22 of 68

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



Date: 16.OCT.2017 16:56:54

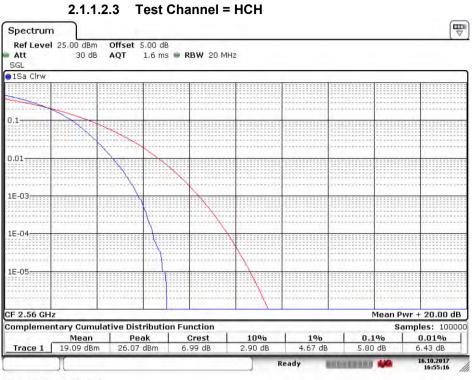


2.1.1.2.2 Test Channel = MCH

Date: 16.OCT.2017 16:56:28



Report No.: SZEM170900995904 Page: 23 of 68



Date: 16.OCT.2017 16:55:17

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-enDocument.aspx, Attention is drawn 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 document. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falisfication 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: 24 of 68

3 Modulation Characteristics

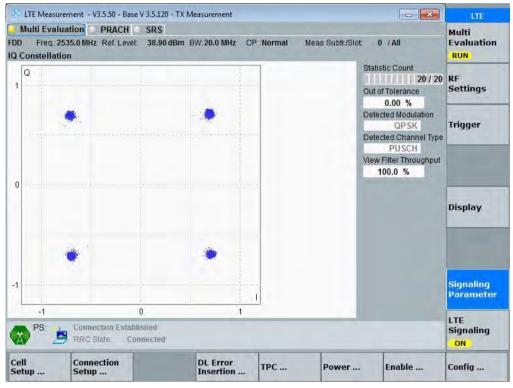
Part I - Test Plots

3.1 For LTE

3.1.1 Test Band = LTE band7

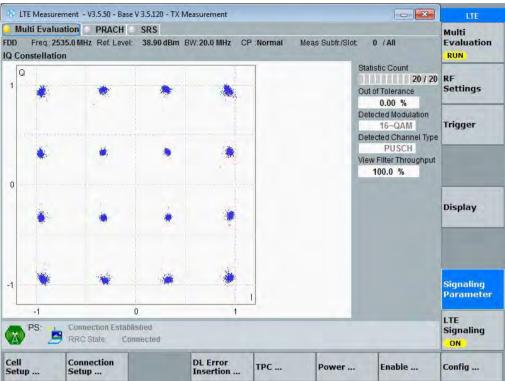
3.1.1.1 Test Mode = LTE /TM1 20MHz

3.1.1.1.1 Test Channel = MCH





Report No.: SZEM170900995904 Page: 25 of 68



3.1.1.2 Test Mode = LTE /TM2 20MHz

3.1.1.2.1 Test Channel = MCH

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-enDocument.aspx, Attention is drawn 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 document. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falisfication 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: 26 of 68

4 Bandwidth

Part I - Test Results

Test Band	Test Mode	Test Channel	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
		LCH	4.50	4.95	PASS
	TM1/ 5MHz	MCH	4.48	4.96	PASS
		HCH	4.50	4.98	PASS
		LCH	4.50	4.96	PASS
	TM2/ 5MHz	MCH	4.49	5.00	PASS
		HCH	4.49	4.95	PASS
		LCH	8.93	9.71	PASS
	TM1/10MHz	MCH	8.95	9.81	PASS
		HCH	8.93	9.69	PASS
		LCH	8.95	9.71	PASS
	TM2/ 10MHz	MCH	8.93	9.67	PASS
Band 7		HCH	8.93	9.69	PASS
Danu /		LCH	13.46	15.02	PASS
	TM1/ 15MHz	MCH	13.49	14.93	PASS
		HCH	13.46	14.84	PASS
		LCH	13.52	14.87	PASS
	TM2/ 15MHz	MCH	13.52	14.84	PASS
		HCH	13.49	14.90	PASS
		LCH	17.90	19.42	PASS
	TM1/ 20MHz	MCH	17.94	19.70	PASS
		HCH	17.86	19.38	PASS
		LCH	17.90	19.50	PASS
	TM2/ 20MHz	MCH	17.90	19.54	PASS
		HCH	17.90	19.38	PASS



Report No.: SZEM170900995904 Page: 27 of 68

4.1 For LTE

4.1.1 Test Band = LTE band7

4.1.1.1 Test Mode = LTE/TM1 5MHz

4.1.1.1.1 Test Channel = LCH

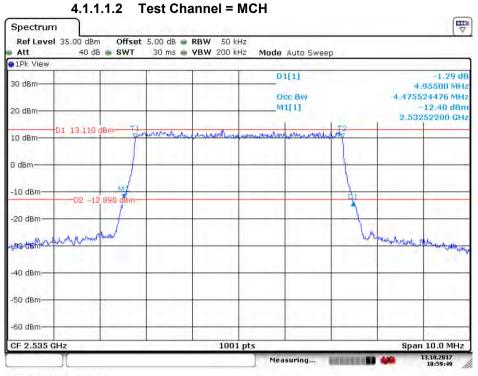
01Pk View								-			
30 dBm							D1[1] Occ Bw M1[1]	Dec BW		 4.945 4.4955044 -11.3	
10 dBm	D1 13.010	dBm	T1 Willow	- Amety Mas	-	and cartage	the well	much	Ę	2.00	0005200 GH:
0 dBm									-		
-10 dBm		M1	n	-			-		41		_
-20 dBm—	up white might the			_		-			Ind	Walnut	Manaturational
-30 dBm-	Alfrager 1.		+	-			-		-	1.00	s all and a second
-40 dBm			+	-			-	_	-	-	
-50 dBm			-	_	-	-	-				
-60 dBm			-							-	
CF 2.502	GHz		-		10	01 pts				Spa	n 10.0 MHz

Date: 13.OCT.2017 10:55:03

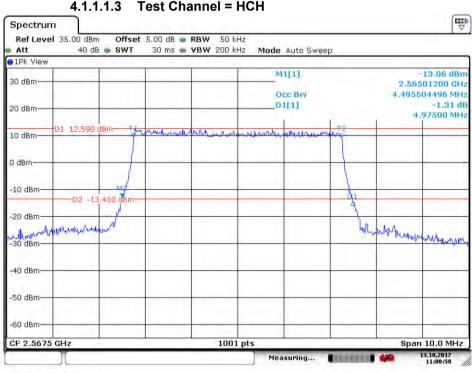
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.Terms-enDocument.aspx, Attention is drawn 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 document. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falisfication 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: 28 of 68



Date: 13.OCT.2017 10:59:49



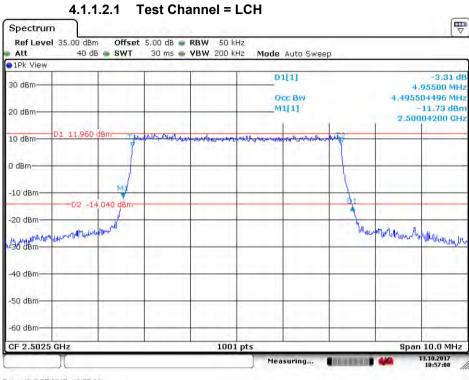
4.1.1.1.3 Test Channel = HCH

Date: 13.OCT.2017 11:00:58

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 overlear, available on request or accessible at http://www.sgs.com/ien/lemis-abc_conditions.aspx and, for electronic Comments, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/ien/lemis-abc_conditions.aspx and in 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 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.



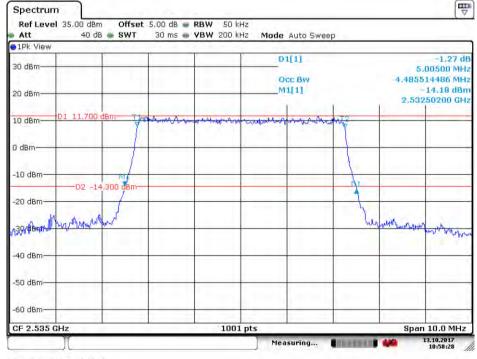
Report No.: SZEM170900995904 Page: 29 of 68



4.1.1.2 Test Mode = LTE/TM2 5MHz

Date: 13.OCT.2017 10:57:09

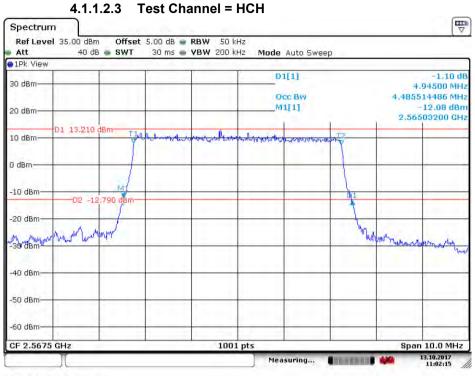




Date: 13.OCT.2017 10:58:28

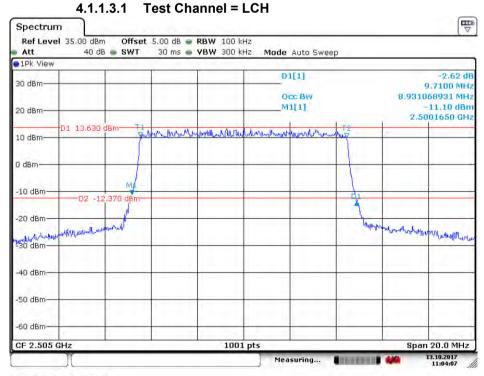


Report No.: SZEM170900995904 Page: 30 of 68



Date: 13.0CT.2017 11:02:15

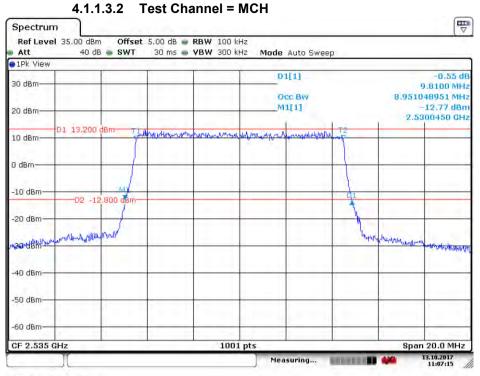
4.1.1.3 Test Mode = LTE/TM1 10MHz



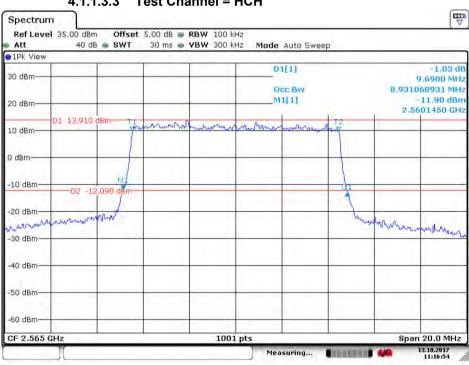
Date: 13.OCT.2017 11:04:08



Report No.: SZEM170900995904 Page: 31 of 68



Date: 13.OCT.2017 11:07:15

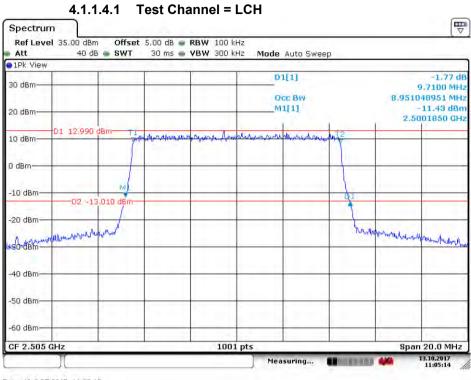


4.1.1.3.3 Test Channel = HCH

Date: 13.OCT.2017 11:16:54



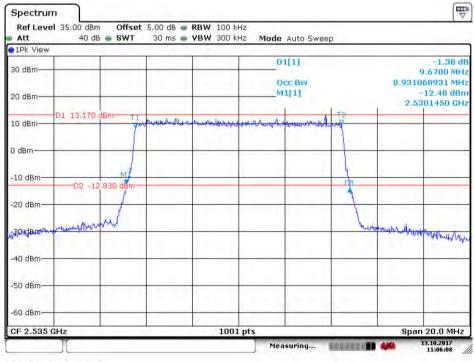
Report No.: SZEM170900995904 Page: 32 of 68



4.1.1.4 Test Mode = LTE/TM2 10MHz

Date: 13.OCT.2017 11:05:15

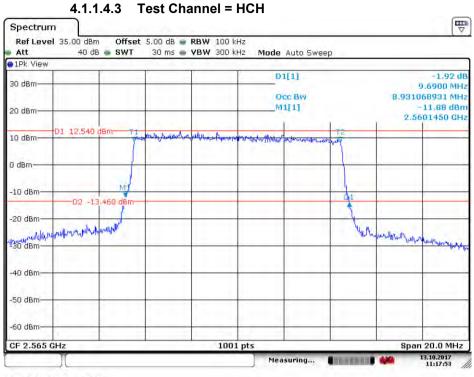
4.1.1.4.2 Test Channel = MCH



Date: 13.OCT.2017 11:06:09

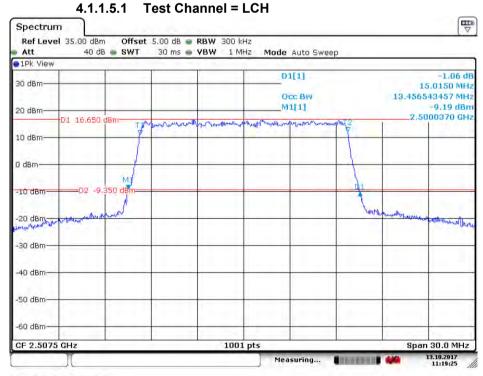


Report No.: SZEM170900995904 Page: 33 of 68



Date: 13.OCT.2017 11:17:53

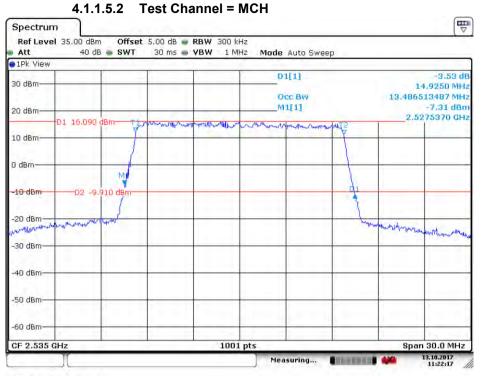
4.1.1.5 Test Mode = LTE/TM1 15MHz



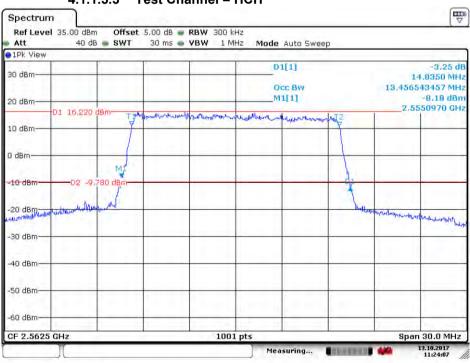
Date: 13.OCT.2017 11:19:25



Report No.: SZEM170900995904 Page: 34 of 68



Date: 13.0CT.2017 11:22:17

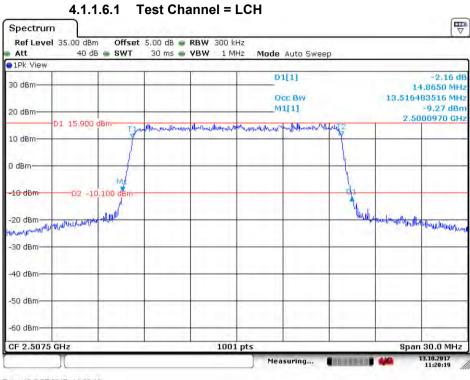


4.1.1.5.3 Test Channel = HCH

Date: 13.OCT.2017 11:24:07



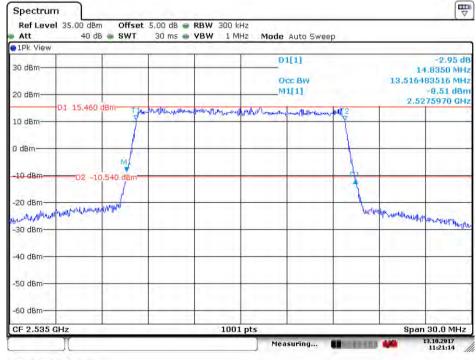
Report No.: SZEM170900995904 Page: 35 of 68



4.1.1.6 Test Mode = LTE/TM2 15MHz

Date: 13.OCT.2017 11:20:19

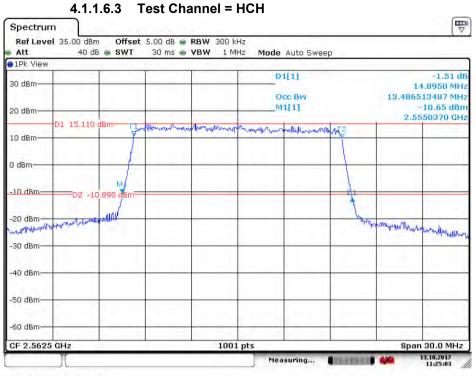
4.1.1.6.2 Test Channel = MCH



Date: 13.OCT.2017 11:21:14

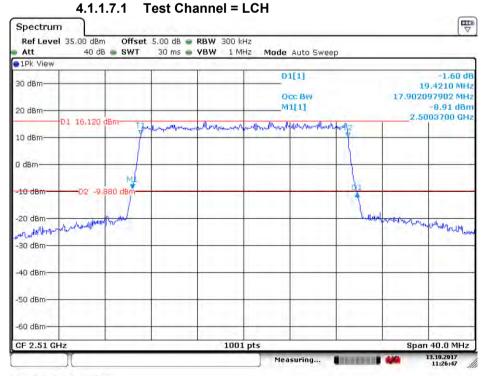


Report No.: SZEM170900995904 Page: 36 of 68



Date: 13.OCT.2017 11:25:03

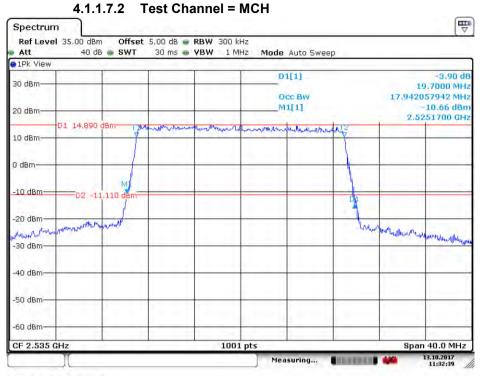
4.1.1.7 Test Mode = LTE/TM1 20MHz



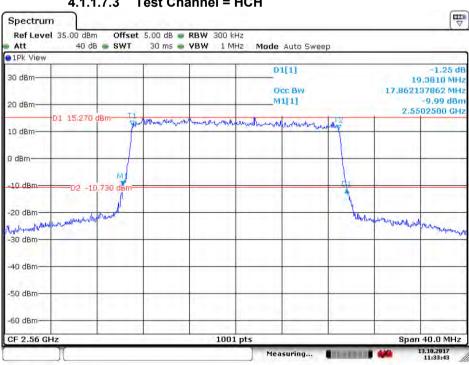
Date: 13.OCT.2017 11:26:47



Report No.: SZEM170900995904 37 of 68 Page:



Date: 13.OCT.2017 11:32:39



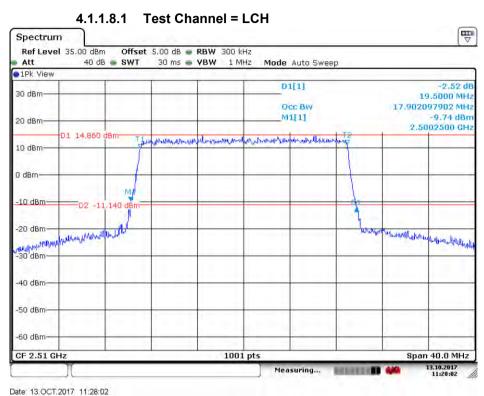


Date: 13.OCT.2017 11:33:43

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 overlear, available on request or accessible at http://www.sgs.com/ien/lemis-abc_conditions.aspx and, for electronic Comments, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/ien/lemis-abc_conditions.aspx and in 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 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.

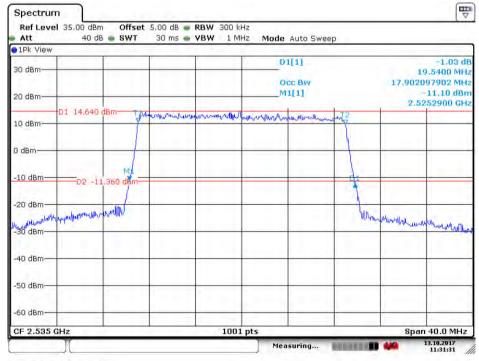


Report No.: SZEM170900995904 Page: 38 of 68



4.1.1.8 Test Mode = LTE/TM2 20MHz

4.1.1.8.2 Test Channel = MCH

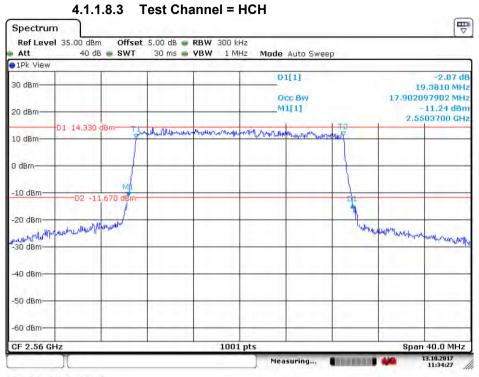


Date: 13.OCT.2017 11:31:31

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-an



Report No.: SZEM170900995904 Page: 39 of 68



Date: 13.OCT.2017 11:34:28

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.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-enDocument.aspx, Attention is drawn 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 document. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falisfication 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 68

5 Band Edges Compliance

Part I –

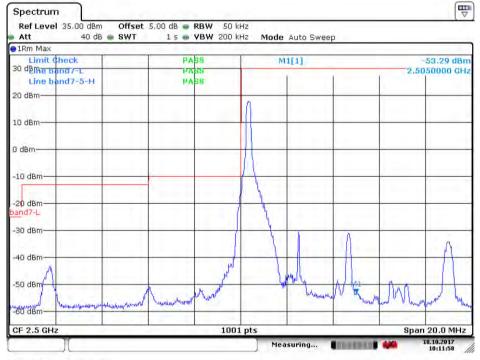
5.1 For LTE

5.1.1 Test Band = LTE band7

5.1.1.1 Test Mode = LTE/TM1 5MHz

5.1.1.1.1 Test Channel = LCH

5.1.1.1.1.1 Test RB=1RB



Date: 18.OCT.2017 10:11:58

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-an

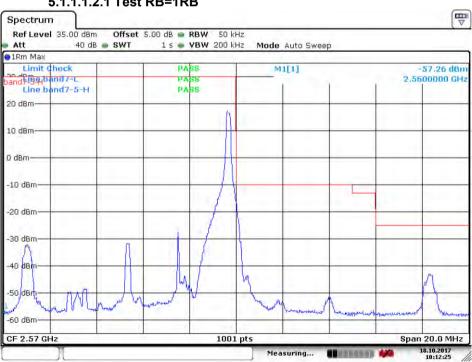


Report No.: SZEM170900995904 Page: 41 of 68

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 Limit Check PASS M1[1] 25.77 dBn 30 dBMe band /-L 177 2.5050000 GH Line band7-5-H PASS 20 dBm 10 dBm 0 dBm--10 dBm -20 dBm NI and7-L -30 dBm -40 dBm--50 dBm -60 dBm 1001 pts CF 2.5 GHz Span 20.0 MHz 18.10.2017 10:10:58 Measuring... COLUMN ST

Date: 18.OCT.2017 10:10:59

5.1.1.1.2 Test Channel = HCH



5.1.1.1.2.1 Test RB=1RB

Date: 18.OCT.2017 10:12:26

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-an

5.1.1.1.1.2 Test RB=25RB



Report No.: SZEM170900995904 Page: 42 of 68

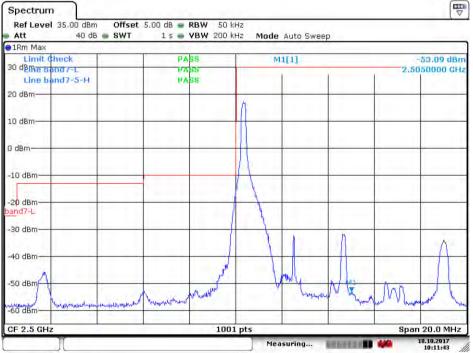
₩ Spectrum Ref Level 35.00 dBm Offset 5.00 dB a RBW 50 kHz 40 dB 🖝 SWT 1 s - VBW 200 kHz Att Mode Auto Sweep 1Rm Max Limit Check PAS M1[1] -52 25 dBn and igg band /-L PASS 2.5600000 GHz Line band7-5-H PASS 20 dBm 10 dBm fi dBm--10 dBm -20 dBm -30 dBm--40 dBm--50 dBm Mappin all months and -60 dBm-CF 2.57 GHz 1001 pts Span 20.0 MHz 18.10.2017 10:13:25 Measuring... COLUMN TWO IS NOT

Date: 18.0CT.2017 10:13:25

5.1.1.2 Test Mode = LTE/TM2 5MHz

5.1.1.2.1 Test Channel = LCH

5.1.1.2.1.1 Test RB=1RB



Date: 18.OCT.2017 10:11:43

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-an

5.1.1.1.2.2 Test RB=25RB

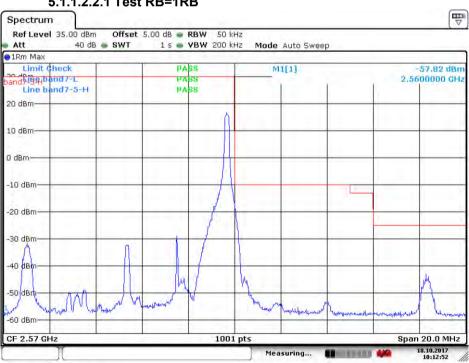


Report No.: SZEM170900995904 Page: 43 of 68

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 Limit Check PASS M1[1] 28.75 dBn 30 dBINe band /-L 177 2.5050000 GH Line band7-5-H PASS 20 dBm 10 dBm 0 dBm--10 dBm -20 dBm and7-L 11 -30 dBm -40 dBm -50 dBm -60 dBm Span 20.0 MHz CF 2.5 GHz 1001 pts 18.10.2017 10:11:32 Measuring... COLUMN ST

Date: 18.OCT.2017 10:11:32

5.1.1.2.2 Test Channel = HCH



5.1.1.2.2.1 Test RB=1RB

Date: 18.OCT.2017 10:12:52

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-an

5.1.1.2.1.2 Test RB=25RB



Report No.: SZEM170900995904 Page: 44 of 68

Spectrum Ref Level 35.00 dBm Offset 5.00 dB a RBW 50 kHz Att 40 dB 🕳 SWT 1 s 👄 YBW 200 kHz Mode Auto Sweep 1Rm Max Limit Check bandyligg band7-L Line band7-5-H M1[1] PASS 51.92 dBn 2.5600000 GH PASS PASS 20 dBm 10 dBm-0 dBm--10 dBm -20 dBm -30 dBm wheld 40 dBm munare well they 5D dBm Horner -60 dBm 1001 pts CF 2.57 GHz Span 20.0 MHz 18.10.2017 10:13:06 Measuring... COLUMN 2 IN COLUMN 2

5.1.1.2.2.2 Test RB=25RB

Date: 18.OCT.2017 10:13:07

5.1.1.3 Test Mode = LTE/TM1 10MHz 5.1.1.3.1 Test Channel = LCH

5.1.1.3.1.1 Test RB=1RB

1Rm Max				
Limit Check	PASS	M1[1]		.46 dBn
Contemporary Conte	PASS		2.5150	DOD GH
20 dBm	PApa	1		
LO dBm				
		1		
) dBm				
10 dBm				_
20 dBm				
and7-L				
		1 No. 1	A	
40 dBm				
50 dBm	manount	Many	and the many	A An
60 dBm	to a support of the second		with the	and vi

Date: 18.OCT.2017 10:17:29

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-enDocument.aspx, Attention is drawn 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 document. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falisfication 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: 45 of 68

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 Limit Check PASS M1[1] -37,36 dBn 30 dBme band /-L 177 2.5150000 GH Line band7-10-H PASS 20 dBm 10 dBm 0 dBm--10 dBm -20 dBm an -30 dBm -40 dBm-50 dBm -60 dBm-1001 pts Span 30.0 MHz CF 2.5 GHz 18.10.2017 10:16:11 Measuring... Ensamment 🖬

Date: 18.0CT.2017 10:16:11

5.1.1.3.2 Test Channel = HCH

5.1.1.3.2.1 Test RB=1RB T 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 Limit Check PASS Line band7-10-H PASS PASS 20 dBm-10 dBm D dBm--10 dBm -20 dBm--30 dBm -40 dBm Solden -60 dBm CF 2.57 GHz 1001 pts Span 30.0 MHz 18.10.2017 10:17:56 Measuring... EXCENSE!

Date: 18.OCT.2017 10:17:56

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-an

5.1.1.3.1.2 Test RB=50RB



Report No.: SZEM170900995904 Page: 46 of 68

₩ Spectrum Ref Level 35.00 dBm Offset 5.00 dB - RBW 100 kHz 40 dB 💿 SWT 1 s - VBW 300 kHz Att Mode Auto Sweep 1Rm Max Limit Check PAS and 198-Aand /-L PASS Line band7-10-H PASS 20 dBm 10 dBm fi dBm--10 dBm--20 dBm -30 dBm--40 dBm -50 dBm -60 dBm-CF 2.57 GHz 1001 pts Span 30.0 MHz 18.10.2017 10:18:47 Measuring... COLUMN ST

Date: 18.OCT.2017 10:18:47

5.1.1.4 Test Mode = LTE/TM2 10MHz

5.1.1.4.1 Test Channel = LCH

₩ 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 Limit Check M1[1] 55.12 dBn PAS 30 dBINe band /-1 PASS 2.5150000 GHz Line band7-10-H PARS 20 dBm-10 dBm D dBm--10 dBm -20 dBm -30 dBm -40 dBm -50 dBm A. . . A -60 dBm CF 2.5 GHz 1001 pts Span 30.0 MHz 18.10.2017 10:16:45 Measuring... -

5.1.1.4.1.1 Test RB=1RB

Date: 18.OCT.2017 10:16:45

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-an

5.1.1.3.2.2 Test RB=50RB

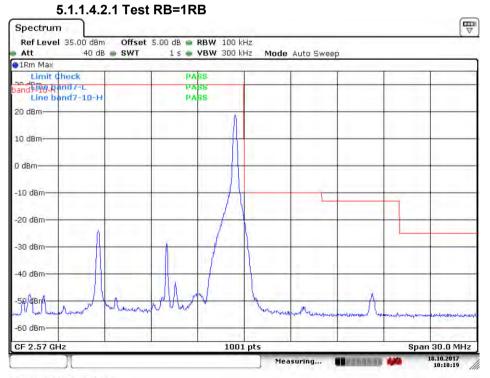


Report No.: SZEM170900995904 Page: 47 of 68

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 Limit Check PASS M1[1] -39,35 dBn 30 dBINe band /-L 2.5150000 GH 177 Line band7-10-H PASS 20 dBm 10 dBm 0 dBm--10 dBm -20 dBm and -30 dBm--40 dBm--50 dBm--60 dBm CF 2.5 GHz 1001 pts Span 30.0 MHz 18.10.2017 10:16:30 Measuring... COLUMN ST

Date: 18.0CT.2017 10:16:30

5.1.1.4.2 Test Channel = HCH



Date: 18.0CT.2017 10:18:20

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-an

5.1.1.4.1.2 Test RB=50RB



Report No.: SZEM170900995904 Page: 48 of 68

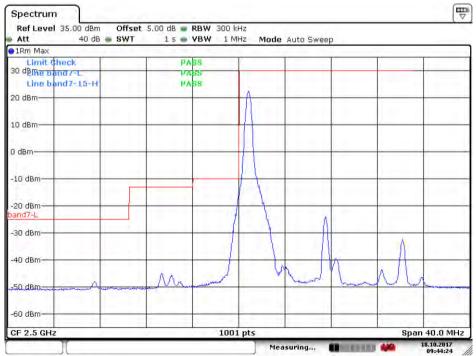
Spectrum Ref Level 35.00 dBm Offset 5.00 dB 📾 RBW 100 kHz Att 40 dB 🕳 SWT 1 s 💩 YBW 300 kHz Mode Auto Sweep 1Rm Max Limit Check PASS and 196 Pand 7-L Line band 7-10-H PASS PASS 20 dBm-10 dBm-D dBm--10 dBm -20 dBm--30 dBm-40 dBm--50 dBm--60 dBm-CF 2.57 GHz 1001 pts Span 30.0 MHz 18.10.2017 10:18:33 Measuring... **HEADBARN**

5.1.1.4.2.2 Test RB=50RB

Date: 18.0CT.2017 10:18:34

5.1.1.5 Test Mode = LTE/TM1 15MHz 5.1.1.5.1 Test Channel = LCH

5.1.1.5.1.1 Test RB=1RB



Date: 18.OCT.2017 09:44:24

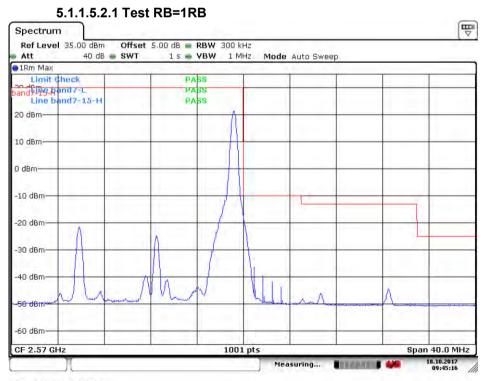
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions/Terms-an



Report No.: SZEM170900995904 Page: 49 of 68

Spectrum Ref Level 35.00 dBm Offset 5.00 dB 🔳 RBW 300 kHz Att 40 dB 💩 SWT 1 5 . VBW 1 MHz Mode Auto Sweep 1Rm Max Limit Check PASS 30 dBme band /-L 177 Line band7-15-H PASS 20 dBm 10 dBm-0 dBm--10 dBm -20 dBm and -30 dBm-40 dBm -50 dBm--60 dBm CF 2.5 GHz 1001 pts Span 40.0 MHz 18.10.2017 09:40:48 Measuring... LELACTION A Date: 18.OCT.2017 09:40:48

5.1.1.5.2 Test Channel = HCH



Date: 18.OCT.2017 09:45:17

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-an

5.1.1.5.1.2 Test RB=75RB



Report No.: SZEM170900995904 Page: 50 of 68

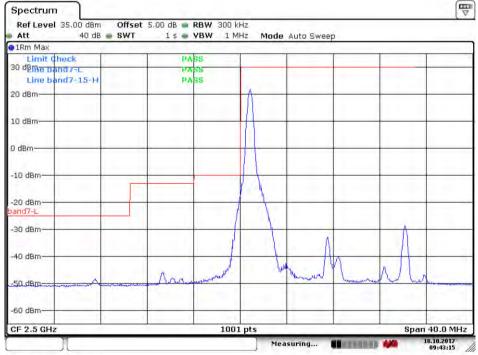
5 Spectrum Ref Level 35.00 dBm Offset 5.00 dB = RBW 300 kHz 40 dB 🕳 SWT Att 1 s 🖷 VBW 1 MHz Mode Auto Sweep 1Rm Max Limit Check PASS and Ing hand /-L PASS Line band7-15-H PASS 20 dBm 10 dBm-0 dBm--10 dBm--20 dBm -30 dBrg--40 dBm -50 dBm -60 dBm-CF 2.57 GHz 1001 pts Span 40.0 MHz 18.10.2017 09:45:50 Measuring... **HARRADH**

Date: 18.OCT.2017 09:45:50

5.1.1.6 Test Mode = LTE/TM2 15MHz

5.1.1.6.1 Test Channel = LCH

5.1.1.6.1.1 Test RB=1RB



Date: 18.OCT.2017 09:43:15

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.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-an

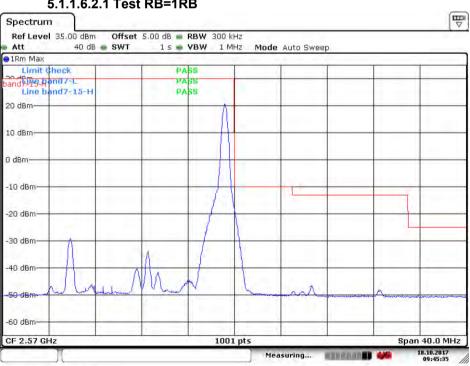
5.1.1.5.2.2 Test RB=75RB



Report No.: SZEM170900995904 51 of 68 Page:

Spectrum Ref Level 35.00 dBm Offset 5.00 dB = RBW 300 kHz Att 40 dB 💩 SWT 1 5 . VBW 1 MHz Mode Auto Sweep 1Rm Max Limit Check PASS 30 dBme band /-L 177 Line band7-15-H PASS 20 dBm 10 dBm-0 dBm--10 dBm -20 dBm and -30 dBm--40 dBm -50 dBm--60 dBm Span 40.0 MHz CF 2.5 GHz 1001 pts 18.10.2017 09:42:57 Measuring... CONTRACTOR OF STREET, Date: 18.OCT.2017 09:42:57

5.1.1.6.2 Test Channel = HCH



5.1.1.6.2.1 Test RB=1RB

Date: 18.OCT.2017 09:45:35

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 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-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/Terms-And-Conditions/Terms-and-Conditions/Terms-and

5.1.1.6.1.2 Test RB=75RB



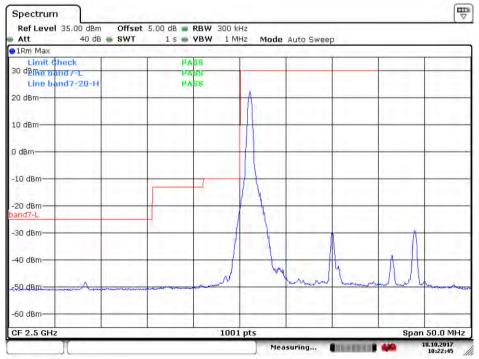
Report No.: SZEM170900995904 Page: 52 of 68

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 Limit Check PASS and Hig hand 7-L Line band 7-15-H PASS PASS 20 dBm 10 dBm-0 dBm--10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm-1001 pts CF 2.57 GHz Span 40.0 MHz 18.10.2017 09:46:15 Measuring... STREET, STREET

Date: 18.OCT.2017 09:46:15

5.1.1.7 Test Mode = LTE/TM1 20MHz 5.1.1.7.1 Test Channel = LCH

5.1.1.7.1.1 Test RB=1RB



Date: 18.OCT.2017 10:22:45

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-an

5.1.1.6.2.2 Test RB=75RB

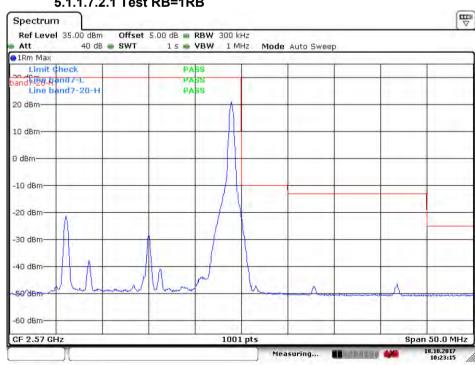


Report No.: SZEM170900995904 53 of 68 Page:

Spectrum Ref Level 35.00 dBm Offset 5.00 dB - RBW 300 kHz Att 40 dB 💩 SWT 1 5 - VBW 1 MHz Mode Auto Sweep 1Rm Max Limit Check PASS 30 dBme band /-L 177 Line band7-20-H PASS 20 dBm 10 dBm-0 dBm--10 dBm -20 dBm and -30 dBm--40 dBm 50 dBm -60 dBm-Span 50.0 MHz CF 2.5 GHz 1001 pts 18.10.2017 10:21:58 Measuring... STATES OF STREET

Date: 18.OCT.2017 10:21:58

5.1.1.7.2 Test Channel = HCH



5.1.1.7.2.1 Test RB=1RB

5.1.1.7.1.2 Test RB=100RB

Date: 18.OCT.2017 10:23:16

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 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-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/Terms-And-Conditions/Terms-and-Conditions/Terms-and



Report No.: SZEM170900995904 Page: 54 of 68

B Spectrum Ref Level 35.00 dBm Offset 5.00 dB - RBW 300 kHz 40 dB 💿 SWT 1 s - VBW 1 MHz Att Mode Auto Sweep 1Rm Max Limit Check PAS and 200-Rand 7-L PASS Line band7-20-H PASS 20 dBm 10 dBm fi dBm--10 dBm--20 dBm--30 dBm--40 dBm -50 dBm -60 dBm-CF 2.57 GHz 1001 pts Span 50.0 MHz 18.10.2017 10:23:56 Measuring... LOCAL DINE STREET, STR Date: 18.OCT.2017 10:23:56

5.1.1.8 Test Mode = LTE/TM2 20MHz

5.1.1.8.1 Test Channel = LCH

5.1.1.8.1.1 Test RB=1RB THE R Spectrum Ref Level 35.00 dBm Offset 5.00 dB 🖝 RBW 300 kHz 40 dB 💩 SWT Att 1 s 🖷 YBW 1 MHz Mode Auto Sweep 1Rm Max Limit Check PAS 30 dBINe band /-L Line band7-20-H PASS PASS 20 dBm-10 dBm 0 dBm--10 dBm -20 dBm -30 dBm -40 dBm àb -50 d8m--60 dBm CF 2.5 GHz 1001 pts Span 50.0 MHz 18.10.2017 Measuring... Date: 18.OCT.2017 10:22:34

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-e-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 enpotueed 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.

5.1.1.7.2.2 Test RB=100RB



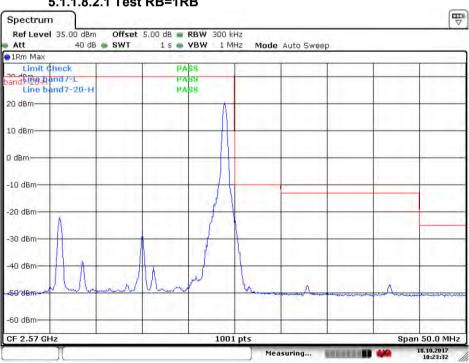
Report No.: SZEM170900995904 Page: 55 of 68

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 Limit Check PASS 30 dBme band /-L 177 Line band7-20-H PASS 20 dBm 10 dBm-0 dBm--10 dBm -20 dBm and -30 dBmmolene -40 dBm-50 dBm -60 dBm-Span 50.0 MHz CF 2.5 GHz 1001 pts 18.10.2017 10:22:21 Measuring... Ensamment 🖬

5.1.1.8.1.2 Test RB=100RB

Date: 18.OCT.2017 10:22:21

5.1.1.8.2 Test Channel = HCH



5.1.1.8.2.1 Test RB=1RB

Date: 18.OCT.2017 10:23:32

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.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-an



Report No.: SZEM170900995904 Page: 56 of 68

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 Limit Check PASS and 120-hand 7-L Line band 7-20-H PASS PASS 20 dBm 10 dBm-0 dBm--10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm 1001 pts Span 50.0 MHz CF 2.57 GHz 18,10.2017 10:23:45 Measuring... STRAPPES'

5.1.1.8.2.2 Test RB=100RB

Date: 18.OCT.2017 10:23:45

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-enDocument.aspx, Attention is drawn 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 document. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falisfication 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: 57 of 68

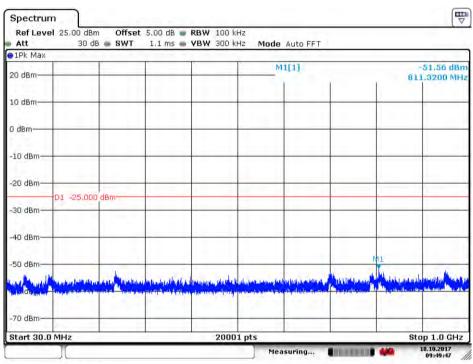
6 Spurious Emission at Antenna Terminal

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 band7

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



6.1.1.1.1 Test Channel = LCH

Date: 18.OCT.2017 09:49:47



									R	eport No	.: SZEM170900995904
										age:	58 of 68
Spectru Ref Lev		lo dBm	Offsel	5.00 dB	RBW 1 M	Hz					
Att	·	30 dB	🖷 SWT	30 ms (WBW 3 MI	Hz Mode	Auto Sweep				
●1Pk Max	-	_	-								
20 dBm—		-		-			M1[1]	i i		38.28 dBm 30480 GHz	
10 dBm		-									
0 dBm		_			_						
-10 dBm—		-		-							
-20 dBm—	-			-		-					
-30 dBm—	D1 -2	25.000	dBm		_		-				
-40 dBm—				a survey fully a		and the state of the second	MI	had a transmission		and the stages are descently	
a dile and server	di a musoli	al all	diff. selfer and de se	Contraction (1)		-		and the second s		and and the second statement of the	
1-50 dBm—							1	1			
-60 dBm—	-	_		-		-					
-70 dBm—						-					
Start 1.0	GHz			-	200	01 pts				10.0 GHz	
		_				M	leasuring	PERSONAL PROPERTY.		18.10.2017 09:53:20	

Date: 18.OCT.2017 09:53:20

Att	30 di	2 - 4111	00 110 -	VBW 3 MHz	mous /	uto Sweep			
20 dBm					M	1[1]	1		38.35 dBn 49250 GH
10 dBm								1	
0 dBm					Prop. 1				
-10 dBm—							-		
-20 dBm—	D1 -25.000	dDee			-				1
30 dBm	-D1 -25,000	UBII			-				
40 dBm	ranas ^{tal} ta yalala ^a	A distantin fellows	nal () ₁₀₀ 4,25,04,2400,045,0	nia k prove through the		And Mary all	A SISTER OF THE SIL	an ann an tha an tha an tha	a come
50 dBm	Pringer Palletine (manufacture)		Contraction of the States of the				i ta an itera and itera	and the second second second	The second s
60 dBm—	1								
70 dBm-								1	

Date: 18.OCT.2017 09:53:43

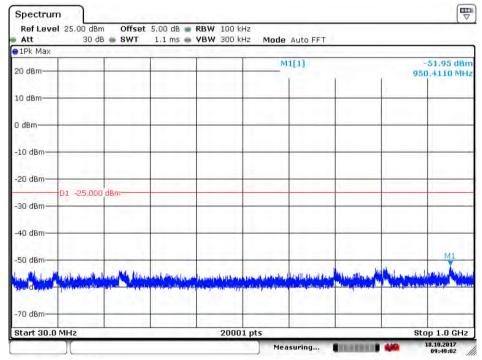
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions/Terms-an



								R	eport No	.: SZEM170900995904
								Р	age:	59 of 68
	el 25.00 dBn			RBW 1 MH			-2			
Att 1Pk Max		B 🖝 SWT	30 ms 🖷	VBW 3 MH	z Mode	Auto Swee	p		1	
20 dBm-		-			1	M1[1]	r		-39.37 dBm 60240 GHz	
10 dBm			-				_			
0 dBm							-			
-10 dBm—										
-20 dBm—										
-30 dBm—	D1 -25.000	dBm			-		-			
M1 -40.dBm	al book a second	Allen and other bit	and the second	al he putting and	Transfel and the start of the	and the state of a stat	(Lasterner and a state	lation of the later state had	and the state of the state of the	
-50 dBm—	Sear of a gap of \$1000 and a local se	and the second		na anal ay ing sarify a sarify		nde fillende	ange <mark>(dingennedi</mark> tering proj _{ed}	and the second		
-60 dBm—			-				-			
-70 dBm—							-			
Start 20.	0 GHz			2000	1 pts				30.0 GHz	
					Me	asuring		-	18.10.2017 09:56:57	

Date: 18.OCT.2017 09:56:58

6.1.1.1.2 Test Channel = MCH



Date: 18.OCT.2017 09:49:03

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.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-enDocument.aspx, Attention is drawn 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 document. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falisfication 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	o.: SZEM170900995904
					Page:	60 of 68
Spectrum Ref Level		et 5.00 dB 🖷 RBW				
Att 1Pk Max	30 dB 💩 SWT	30 ms 🖷 VBW 3	3 MHz Mode Auto Sv	veep		
20 dBm			M1[1]		-39.09 dBm 5.905880 GHz	
10 dBm						
0 dBm						
-10 dBm						
-20 dBm)1 -25,000 dBm					
-30 dBm			M1			
-40 dBm	a line of the second second	والمتلاف والمتعالية والمتعاد والمتعاد		Manual emotion dut	an a	
-su abm						
-60 dBm						
-70 dBm	12		20001 pts		Stop 10.0 GHz	
][]		Measuring			

Date: 18.OCT.2017 09:52:36

Att	30 dE	awi	30 ms	VBW 3 MH	- Moue A	uto sweep	-		
20 dBm					M	1[1]	ŕ		37.62 dBn 188760 GH:
10 dBm			-		-				
0 dBm									
-10 dBm—								1	
20 dBm—	in mark								
30 dBm—	-D1 -25,000	dBm							M
40 dBm—	site on Mithian	and a state of the second	May	a supplicit of the supplicit	Pro Spinning Hope In	Manager Manager At	New Arriton and the State	a subsection of the sub-	
50 dBm—	Water States and a state of the		The substitution of the second	A frame a failedana a fai		n Shitleyan Shitley akk	Constantial and the Alf	i bila tarin a bila _{ba} na 100	Constant States of States
60 dBm—		_	-						
70 dBm-								1	

Date: 18.OCT.2017 09:54:02

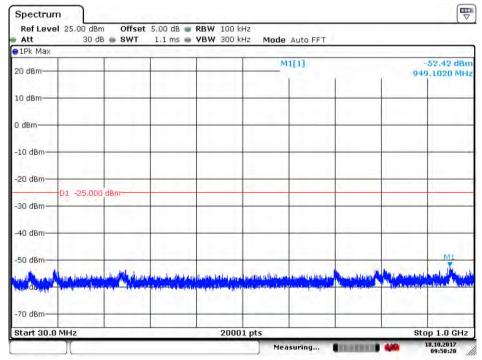
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions/Terms-an



								R P	Report No Page:	.: SZEM170900995904 61 of 68
Spectrum Ref Level			5.00 dB 🖷	RBW 1 MHz						
Att 1Pk Max	30 dB	i SWT	30 ms 🖷	VBW 3 MHz	Mode	Auto Sweep	0			
20 dBm					1	M1[1]			-38.40 dBm 378730 GHz	
10 dBm		- 11								
0 dBm										
-10 dBm						-				
-20 dBm)1 -25.000	d D and								
-30 dBm	11 -25,000	UBII						-		
		a the solution of the solution of the	Anna Alabert and Anna	Lord C. a. Philes (199	the contract of the second		de la constata de la			
-50 dBm										
-60 dBm										
-70 dBm										
Start 20.0 G	Hz			2000	1 pts				p 30.0 GHz	
	Л				Me	asuring	Constant of the local division of the local	440	18.10.2017 09:56:35	

Date: 18.OCT.2017 09:56:35

6.1.1.1.3 Test Channel = HCH



Date: 18.OCT.2017 09:50:19

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 http://www.sgs.com/en/Terms-and-Conditions.Terms-enDocument.aspx, Attention is drawn 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 document. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falisfication 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.



SZEM170900995904

62 of 68

Spectrum Image: Spectrum <thimage: spectrum<="" th=""> Image: Spectrum Image: Spectrum<th>nart-</th><th></th><th></th><th></th><th></th><th></th><th></th><th>R: Pa</th><th>age:</th></thimage:>	nart-							R: Pa	age:
Ref Level 25.00 dBm Offset 5.00 dB RBW 1 MH: 30 ms Made Auto Sweep 19k Max 30 db SWT 30 ms VBW 3 MHz Made Auto Sweep 19k Max -36.84 dBm 1.763840 GHz 1.763840 GHz 1.763840 GHz 0 dBm -36.84 dBm 1.763840 GHz 1.763840 GHz 1.763840 GHz 0 dBm -36.84 dBm 1.763840 GHz 1.763840 GHz 1.763840 GHz 0 dBm -36.84 dBm -36.84 dBm 1.763840 GHz 1.763840 GHz 20 dBm 01 - 25.000 dBm -36.84 dBm -37.85 dBm 1.763840 GHz 30 dBm -01 - 25.000 dBm	pectrum								
IPK Max		C	Offset	5.00 dB 💣 I	RBW 1 MHz				[*.
0 d8m		30 dE	🖷 SWT	30 ms 🖷 '	BW 3 MHz	Mode Auto S	weep		
ddm 1.763840 GHz odm 1.763840 GHz odm 1.763840 GHz <td>1Pk Max</td> <td>-</td> <td>-</td> <td>1</td> <td>T</td> <td>M1[1]</td> <td></td> <td></td> <td>26 94 dBm</td>	1Pk Max	-	-	1	T	M1[1]			26 94 dBm
den	0 dBm					milii	-		
0 dBm 0 dBm 0 dBm 1 25.000 dBm 1 25.000 dBm 1 25.000 dBm 1 25.000 dBm 1 25.000 dBm 1 25.000 dBm 1 20 dBm) dBm								
0 dBm 01 - 25.00 dBm 0 d	dBm						01		-
0 dBm 1 25,000 dBm 0	0 dBm				_				
0 dBm 0	0 dBm								
0 dBm 1 child a bar with the provide the	0 dBm	01 -25.000	dBm	-					
b0 dBm iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	Y					The former of the standard sectors			
0 dBm 0 dBm 0 dBm 10 GHz 20001 pts Stop 10.0 GHz 10 dBm 10 GHz 20001 pts Stop 10.0 GHz 18,027,027 e 18.0CT.2017 09:51:42 10 GHz 10 GHz 18,027,027 18,027,027 pectrum Image: stop 10,0 GHz Image: stop 10,0 GHz 18,027,027 18,027,027 petrum Image: stop 10,0 GHz Image: stop 10,0 GHz Image: stop 10,0 GHz 19,031,750 GHz iPk Max Image: stop 10,0 GHz Image: stop 10,0 GHz Image: stop 10,0 GHz Image: stop 10,0 GHz iD dBm Image: stop 10,0 GHz iD dBm Image: stop 10,0 GHz iD dBm Image: stop 10,0 GHz iD dBm Image: stop 10,0 GHz iD dBm Image: stop 10,0 GHz Image: stop 10,0 GHz Image: stop 10,0 GHz Image: stop 10,0	And the second second		a statistic bird an	it dilact Music and		and the second second second			A STATE OF A LOUIS
10 dBm 19 93 4750 GHz 10 dBm 10 dBm 10 dBm 11 -25,000 dBm 19 93 4750 GHz 10 dBm					-			-	
tart 1.0 GHz Stop 10.0 GHz To the sum of t							-		
measuring 11:10:2017 99:51:42 e: 18:0CT.2017 09:51:42 mpectrum Ref Level 25:00 dBm Offset 5:00 dB @ RBW 1 MHz Att 30 dB @ SWT 30 ms @ VBW 3 MHz Multiple and a switch and switch and switch and switch and a switch and switch and a switc					2	· · · · · · · · · · · · · · · · · · ·			122.51
e 18.0CT.2017_09:51:42 pectrum Ref Level 25.00 dB	tart 1.0 GH	lz	_	_	20001	pts			
1Pk Max M1[1] -98.27 dBm 0 dBm 19.934750 GHz 10 dBm 19.934750 GHz 20 dBm 19.934750 GHz 20 dBm 19.934750 GHz 10 dBm 19.934750 GHz 20 dBm 19.934750 GHz 30 dBm 19.934750 GHz 10 dBm 19.934750 GHz	2 Po 10 Po 20	1							
0 dBm 19.934750 GHz 10 dBm 19.934750 GHz 11.92207 19.934720 GHz						Mode Auto S	weep		
dBm dBm dBm dBm 10 dBm dBm dBm dBm 20 dBm D1 -25,000 dBm dBm dBm 30 dBm dBm dBm dBm 10 dBm dBm dBm <th>Att</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>weep</th> <th></th> <th></th>	Att						weep		
0 dBm	Att IPk Max						weep		38.27 dBm
0 dBm	Att LPk Max) dBm						weep		38.27 dBm
D1 -25,000 dBm M i0 dBm IIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Att 1Pk Max 0 dBm 0 dBm						weep		38.27 dBm
00 dBm 0 <td< td=""><td>Att 1Pk Max 0 dBm 0 dBm dBm</td><td></td><td></td><td></td><td></td><td></td><td>weep</td><td></td><td>38.27 dBm</td></td<>	Att 1Pk Max 0 dBm 0 dBm dBm						weep		38.27 dBm
0 dBm	Att IPk Max D dBm D dBm dBm 0 dBm	30 d£	swt				weep		38.27 dBm
0 dBm 0 dBm art 10.0 GHz 20001 pts Stop 20.0 GHz 15.10/2017	Att IPk Max) dBm) dBm dBm 0 dBm 0 dBm C	30 d£	swt				weep		39.27 dBm 34750 GHz
0 dBm	Att IPk Max) dBm) dBm dBm dBm 0 dBm 0 dBm 0 dBm 0 dBm	30 d£	dBm-	30 ms 🖝 '	VBW 3 MHz	M1[1]			39.27 dBm 34750 GHz
tart 10.0 GHz 20001 pts Stop 20.0 GHz 18.10.2017	Att IPK Max D dBm D dBm dBm dBm 0 dBm 0 dBm 0 dBm 0 dBm 0 dBm 0 dBm 0 dBm 0 dBm 0 dBm	30 d£	dBm-	30 ms 🖝 '	VBW 3 MHz	M1[1]			39.27 dBm 34750 GHz
Nagewing 18.10.2017	Att IPK Max D dBm D dBm dBm dBm 0 dBm 0 dBm 0 dBm 0 dBm 0 dBm 0 dBm 0 dBm 0 dBm 0 dBm	30 d£	dBm-	30 ms 🖝 '	VBW 3 MHz	M1[1]			39.27 dBm 34750 GHz
Measuring 🚺 18.10.2017 09:54:37	Att IPk Max 0 dBm 0 dBm dBm 0 dBm 0 dB	30 d£	dBm-	30 ms 🖝 '	VBW 3 MHz	M1[1]			39.27 dBm 34750 GHz
	Att 1Pk Max 0 dBm 0 dBm dBm dBm dBm co dBm	30 de	dBm-	30 ms 🖝 '				Control of the second s	38.27 dBm 34750 GHz

Date: 18.0CT.2017 09:54:37

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.spx 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-and-



2.5.5.0.	_								age:	.: SZEM170900995904 63 of 68
Spectrur Ref Leve	n 1 25.00 dBm	Offset	5.00 dB 🖷	RBW 1 MHz		_				
Att	30 dB	i SWT	30 ms 🖷	YBW 3 MHz	Mode /	Auto Swee	p			
20 dBm			-		N	11[1]			-39.06 dBm 223240 GHz	
10 dBm										
0 dBm					1.00					
-10 dBm						-		1		
-20 dBm—		10						1		
-30 dBm	-D1 -25,000	dBm-				-		-		
M1 FAD dBm	it e tor confibule	and could be a		i statut	struttional de als	latifity of the state of	المراجع والمحادي والمتألف	a sashi addima an	an balla share	
-50 dBm—		(Altra anna Altra a st	a hard the part of	a provide the second	Copencer Propriet Marco	1			a haya a she a	
-60 dBm						-	-	-		
-70 dBm										
Start 20.0	GHz		1	2000	1 pts	1.			p 30.0 GHz	
_		_			Mea	asuring	TO-HERE D	-	18.10.2017 09:55:04	

Date: 18.0CT.2017 09:55:05

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.spx 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-and-



Report No.: SZEM170900995904 Page: 64 of 68

7 Field Strength of Spurious Radiation

7.1 For LTE

Main Supply:

7.1.1 Test Band = LTE band7

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
1111.000	-66.18	-25.00	-41.18	Vertical
4365.000	-67.05	-25.00	-42.05	Vertical
7192.500	-64.32	-25.00	-39.32	Vertical
1320.000	-67.01	-25.00	-42.01	Horizontal
4657.500	-66.10	-25.00	-41.10	Horizontal
7777.500	-63.10	-25.00	-38.10	Horizontal

7.1.1.1.2 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
1243.000	-66.08	-25.00	-41.08	Vertical
4950.000	-66.27	-25.00	-41.27	Vertical
8070.000	-64.52	-25.00	-39.52	Vertical
1243.000	-67.07	-25.00	-42.07	Horizontal
2680.000	-57.35	-25.00	-32.35	Horizontal
4170.000	-67.30	-25.00	-42.30	Horizontal

7.1.1.1.3	Test Channel = HCH	
		_

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization	
1100.000	-66.27	-25.00	-41.27	Vertical	
1804.000	-63.31	-25.00	-38.31	Vertical	
2664.000	-57.34	-25.00	-32.34	Vertical	
1122.000	-66.97	-25.00	-41.97	Horizontal	
1694.000	-64.35	-25.00	-39.35	Horizontal	
2880.000	-56.57	-25.00	-31.57	Horizontal	

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-enDocument.aspx, Attention is drawn 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 document. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falisfication 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: 65 of 68

Secondary Supply:

7.1.2 Test Band = LTE band7

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	
4267.500	-66.47	-25.00	-41.47	Vertical	
6900.000	-64.12	-25.00	-39.12	Vertical	
10507.500	-62.51	-25.00	-37.51	Vertical	
4365.000	-66.79	-25.00	-41.79	Horizontal	
6900.000	-64.31	-25.00	-39.31	Horizontal	
10507.500	-62.87	-25.00	-37.87	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: 66 of 68

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
		LCH	TN	VL	-4.03	-0.00161	PASS
				VN	2.46	0.00098	PASS
				VH	-7.53	-0.00300	PASS
				VL	1.49	0.00059	PASS
	LTE/TM1 20MHz	MCH	TN	VN	-2.84	-0.00112	PASS
				VH	2.62	0.00103	PASS
		НСН		VL	-6.56	-0.00256	PASS
			TN	VN	-5.17	-0.00202	PASS
				VH	-1.75	-0.00068	PASS
LTEband7	LTE/TM2 20MHz	LCH	TN	VL	-4.18	-0.00167	PASS
				VN	-2.95	-0.00118	PASS
				VH	-5.16	-0.00206	PASS
		МСН		VL	1.56	0.00062	PASS
			TN	VN	-4.80	-0.00189	PASS
				VH	2.59	0.00102	PASS
		НСН		VL	-3.22	-0.00126	PASS
			TN	VN	-7.54	-0.00295	PASS
				VH	2.42	0.00095	PASS



Report No.: SZEM170900995904 Page: 67 of 68

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	-2.42	-0.00096	PASS
		LCH		-20	-1.34	-0.00053	PASS
				-10 2.38	2.38	0.00095	PASS
			VN	0	3.75	0.00149	PASS
				10	1.65	0.00066	PASS
				20 5.1	5.11	0.00204	PASS
				30	-0.31	-0.00012	PASS
				40	-6.14	-0.00245	PASS
				50	3.59	0.00143	PASS
	LTE/TM1 20MHz	МСН		-30	-7.80	-0.00308	PASS
				-20	-2.95	-0.00116	PASS
			VN	-10	-7.49	-0.00295	PASS
				0	-5.62	-0.00222	PASS
LTEband7				10	-4.32	-0.00170	PASS
				20	-9.94	-0.00392	PASS
				30	-2.42	-0.00095	PASS
				40	-4.55	-0.00179	PASS
				50	-6.90	-0.00272	PASS
		нсн		-30	4.54	0.00177	PASS
				-20	-3.76	-0.00147	PASS
				-10	1.50	0.00059	PASS
			VN	0	-5.83	-0.00228	PASS
				10	2.60	0.00102	PASS
				20	-0.55	-0.00021	PASS
				30	-2.66	-0.00104	PASS
				40	-5.43	-0.00212	PASS
				50	-8.90	-0.00348	PASS



Report No.: SZEM170900995904 Page: 68 of 68

					Page:	68 Of 68	
Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
				-30		-0.00139	PASS
				-20	-2.45	-0.00098	PASS
				-10 3.38	0.00135	PASS	
				0	0 2.64 0.00105	0.00105	PASS
		LCH	VN	10	1.60	0.00064	PASS
				20	-3.23	-0.00129	PASS
				30	-0.44	-0.00018	PASS
				40	5.34	0.00213	PASS
	LTE/TM2 20MHz			50	4.79	0.00191	PASS
				-30	-2.80	-0.00110	PASS
		МСН		-20	-5.38	-0.00110 PASS -0.00212 PASS -0.00288 PASS -0.00170 PASS	PASS
LTEband7				-10	-7.29	-0.00288	PASS
				0		-0.00170	PASS
			VN	/N 10 -1.88	-0.00074	PASS	
				20	20 1.74 0.00069	0.00069	PASS
				30	-3.60	-0.00142	PASS
				40	-2.62	-0.00103	PASS
				50 -1.91 -0.00075	-0.00075	PASS	
		НСН		-30	1.34	0.00052	PASS
				-20	-2.88	-0.00113	PASS
				-10	-10 1.59 0.00062	0.00062	PASS
				0	-4.73	-0.00185	PASS
			VN	10	2.80	0.00109	PASS
				20	-1.47	-0.00057	PASS
				30	-2.59	-0.00101	PASS
				40	-4.13	-0.00161	PASS
				50	-7.60	-0.00297	PASS

The End

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.spx 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-and-