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# Appendix B

E-UTRA Band 12



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### 1 Effective (Isotropic) Radiated Power Output Data

Effective Radiated Power of Transmitter (ERP) for LTE BAND 12

Main Supply:

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
				RB1#0	22.53	21.49	38.45	PASS
				RB1#2	22.60	21.57	38.45	PASS
				RB1#5	22.53	21.52	38.45	PASS
			LCH	RB3#0	22.62	21.57	38.45	PASS
				RB3#2	22.57	21.55	38.45	PASS
				RB3#3	22.66	21.64	38.45	PASS
				RB6#0	21.54	20.53	38.45	PASS
				RB1#0	22.59	21.58	38.45	PASS
				RB1#2	22.69	21.65	38.45	PASS
				RB1#5 22.64	21.62	38.45	PASS	
BAND12	LTE/TM1	1.4M	MCH RB3#0 RB3#2	RB3#0	22.69	21.66	38.45	PASS
				22.66	21.64	38.45	PASS	
				RB3#3	22.82	21.78	38.45	PASS
				RB6#0	21.61	20.60	38.45	PASS
				RB1#0	22.52	21.48	38.45	PASS
				RB1#2	22.56	21.52	38.45	PASS
				RB1#5	22.59	21.59	38.45	PASS
			HCH	RB3#0	22.89	21.86	38.45	PASS
				RB3#2	22.48	21.45	38.45	PASS
				RB3#3	22.56	21.51	38.45	PASS
				RB6#0	21.51	20.50	38.45	PASS



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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
				RB1#0	21.72	20.71	38.45	PASS
				RB1#2	21.85	20.84	38.45	PASS
				RB1#5	21.74	20.71	38.45	PASS
			LCH	RB3#0	21.56	20.52	38.45	PASS
				RB3#2	21.53	20.51	38.45	PASS
				RB3#3	21.52	20.50	38.45	PASS
				RB6#0	20.62	19.60	38.45	PASS
				RB1#0	21.80	20.75	38.45	PASS
				RB1#2	21.94	20.93	38.45	PASS
				RB1#5	21.85	20.82	38.45	PASS
BAND12	LTE/TM2	2 1.4M	RB3#2	RB3#0	21.64	20.59	38.45	PASS
				RB3#2	21.64	20.59	38.45	PASS
				RB3#3	21.66	20.65	38.45	PASS
				RB6#0	20.70	19.66	38.45	PASS
				RB1#0	21.67	20.66	38.45	PASS
				RB1#2	21.72	20.71	38.45	PASS
				RB1#5	21.67	20.66	38.45	PASS
			HCH	RB3#0	21.51	20.47	38.45	PASS
				RB3#2	21.46	20.44	38.45	PASS
				RB3#3	21.50	20.49	38.45	PASS
				RB6#0	20.58	19.56	38.45	PASS



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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
				RB1#0	22.49	21.48	38.45	PASS
				RB1#7	22.56	21.55	38.45	PASS
				RB1#14	22.48	21.47	38.45	PASS
			LCH	RB8#0	21.54	20.51	38.45	PASS
				RB8#4	21.54	20.53	38.45	PASS
				RB8#7	21.55	20.53	38.45	PASS
				RB15#0	21.53	20.53	38.45	PASS
				RB1#0	22.52	21.49	38.45	PASS
				RB1#7	22.63	21.58	38.45	PASS
		M1 3M	МСН	RB1#14	22.61	21.57	38.45	PASS
BAND12	LTE/TM1			RB8#0	21.61	20.59	38.45	PASS
				RB8#4	21.64	20.63	38.45	PASS
				RB8#7	21.66	20.64	38.45	PASS
				RB15#0	21.60	20.56	38.45	PASS
				RB1#0	22.56	21.54	38.45	PASS
				RB1#7	22.55	21.50	38.45	PASS
				RB1#14	22.46	21.41	38.45	PASS
		HCH	RB8#0	21.60	20.58	38.45	PASS	
				RB8#4	21.58	20.56	38.45	PASS
				RB8#7	21.56	20.54	38.45	PASS
				RB15#0	21.55	20.52	38.45	PASS



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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
				RB1#0	21.70	20.67	38.45	PASS
				RB1#7	21.74	20.73	38.45	PASS
				RB1#14	21.66	20.62	38.45	PASS
			LCH	RB8#0	20.62	19.58	38.45	PASS
				RB8#4	20.59	19.59	38.45	PASS
				RB8#7	20.62	19.60	38.45	PASS
				RB15#0	20.56	19.55	38.45	PASS
				RB1#0	21.77	20.74	38.45	PASS
				RB1#7 21.89  RB1#14 21.86	20.86	38.45	PASS	
					21.86	20.83	38.45	PASS
BAND12	LTE/TM2	M2 3M	MCH	RB8#0	20.70	19.69	38.45	PASS
				RB8#4 20.73 RB8#7 20.73	20.73	19.70	38.45	PASS
					19.68	38.45	PASS	
				RB15#0	20.64	19.60	38.45	PASS
				RB1#0	21.71	20.66	38.45	PASS
				RB1#7	21.73	20.72	38.45	PASS
				RB1#14	21.69	20.68	38.45	PASS
			HCH	RB8#0	20.65	19.64	38.45	PASS
				RB8#4	20.63	19.61	38.45	PASS
				RB8#7	20.62	19.57	38.45	PASS
				RB15#0	20.58	19.54	38.45	PASS



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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
				RB1#0	22.57	21.55	38.45	PASS
				RB1#13	22.57	21.57	38.45	PASS
				RB1#24	22.56	21.54	38.45	PASS
			LCH	RB12#0	21.59	20.58	38.45	PASS
				RB12#6	21.60	20.56	38.45	PASS
				RB12#13	21.59	20.58	38.45	PASS
				RB25#0	21.54	20.50	38.45	PASS
				RB1#0	22.60	21.59	38.45	PASS
				RB1#13	22.69	21.65	38.45	PASS
				RB1#24	22.64	21.63	38.45	PASS
BAND12	LTE/TM1	/TM1 5M	MCH	RB12#0	21.71	20.69	38.45	PASS
				RB12#6	21.83	20.80	38.45	PASS
				RB12#13	21.72	20.70	38.45	PASS
				RB25#0	21.84	20.83	38.45	PASS
				RB1#0	22.66	21.62	38.45	PASS
				RB1#13	22.60	21.55	38.45	PASS
				RB1#24	22.45	21.44	38.45	PASS
			HCH	RB12#0	21.64	20.60	38.45	PASS
				RB12#6	21.61	20.60	38.45	PASS
				RB12#13	21.56	20.52	38.45	PASS
				RB25#0	21.57	20.53	38.45	PASS



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Test	Test	Test	Test	T( DD	Measured	ERP	limit	Man II 4
Band(LTE)	Mode	Bandwidth	channel	Test RB	(dBm)	(dBm)	(dBm)	Verdict
				RB1#0	21.76	20.74	38.45	PASS
				RB1#13	21.74	20.71	38.45	PASS
				RB1#24	21.76	20.73	38.45	PASS
			LCH	RB12#0	20.59	19.59	38.45	PASS
				RB12#6	20.59	19.57	38.45	PASS
				RB12#13	20.60	19.60	38.45	PASS
				RB25#0	20.54	19.50	38.45	PASS
				RB1#0	21.85	20.82	38.45	PASS
				RB1#13 <sub>21.88</sub>	21.88	20.85	38.45	PASS
				RB1#24	21.83	20.80	38.45	PASS
BAND12	LTE/TM2	M2 5M	MCH	RB12#0	20.66	19.62	38.45	PASS
				RB12#6	20.69	19.66	38.45	PASS
				RB12#13	20.72	19.72	38.45	PASS
				RB25#0	20.65	19.64	38.45	PASS
				RB1#0	21.80	20.78	38.45	PASS
				RB1#13	21.75	20.72	38.45	PASS
				RB1#24	21.66	20.62	38.45	PASS
			НСН	RB12#0	20.62	19.61	38.45	PASS
				RB12#6	20.58	19.57	38.45	PASS
				RB12#13	20.55	19.51	38.45	PASS
				RB25#0	20.56	19.51	38.45	PASS



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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
				RB1#0	22.75	21.70	38.45	PASS
				RB1#25	22.61	21.60	38.45	PASS
				RB1#49	22.72	21.72	38.45	PASS
			LCH	RB25#0	21.71	20.70	38.45	PASS
				RB25#13	21.61	20.57	38.45	PASS
				RB25#25	21.55	20.54	38.45	PASS
				RB50#0	21.68	20.64	38.45	PASS
				RB1#0	22.72	21.69	38.45	PASS
				RB1#25 22.58  RB1#49 22.57	21.55	38.45	PASS	
					22.57	21.52	38.45	PASS
BAND12	LTE/TM1	M1 10M		RB25#0	21.66	20.64	38.45	PASS
				RB25#13	21.65	20.64	38.45	PASS
				RB25#25 21.64	20.62	38.45	PASS	
				RB50#0	21.63	20.59	38.45	PASS
				RB1#0	22.69	21.66	38.45	PASS
				RB1#25	22.61	21.59	38.45	PASS
				RB1#49	22.55	21.50	38.45	PASS
			НСН	RB25#0	21.67	20.62	38.45	PASS
				RB25#13	21.64	20.60	38.45	PASS
				RB25#25	21.65	20.63	38.45	PASS
				RB50#0	21.67	20.64	38.45	PASS



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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdic t
				RB1#0	21.80	20.75	38.45	PASS
				RB1#25	21.86	20.82	38.45	PASS
				RB1#49	21.98	20.95	38.45	PASS
			LCH	RB25#0	20.54	19.53	38.45	PASS
				RB25#13	20.60	19.56	38.45	PASS
				RB25#25	20.65	19.61	38.45	PASS
				RB50#0	20.64	19.64	38.45	PASS
				RB1#0	21.77	20.74	38.45	PASS
				RB1#25	21.95	20.90	38.45	PASS
				RB1#49	21.91	20.87	38.45	PASS
BAND12	LTE/TM2	E/TM2 10M	MCH	RB25#0	20.63	19.58	38.45	PASS
				RB25#13	20.66	19.66	38.45	PASS
				RB25#25	20.73	19.70	38.45	PASS
				RB50#0	20.68	19.66	38.45	PASS
				RB1#0	21.86	20.85	38.45	PASS
				RB1#25	21.89	20.84	38.45	PASS
				RB1#49	21.75	20.70	38.45	PASS
		НСН	RB25#0	20.67	19.64	38.45	PASS	
				RB25#13	20.67	19.66	38.45	PASS
				RB25#25	20.64	19.61	38.45	PASS
				RB50#0	20.67	19.63	38.45	PASS



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**Secondary Supply:** 

Secondary Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
				RB1#0	22.05	18.83	38.45	PASS
				RB1#2	22.12	18.87	38.45	PASS
				RB1#5	22.05	18.83	38.45	PASS
			LCH	RB3#0	22.27	19.03	38.45	PASS
				RB3#2	22.22	19.00	38.45	PASS
				RB3#3	22.14	18.92	38.45	PASS
				RB6#0	21.13	17.91	38.45	PASS
				RB1#0	22.14	18.92	38.45	PASS
				RB1#2	22.13	18.92	38.45	PASS
				RB1#5 22.07	22.07	18.87	38.45	PASS
BAND12	LTE/TM1	1.4M	MCH	RB3#0	22.23	19.01	38.45	PASS
				RB3#2	21.98	18.76	38.45	PASS
				RB3#3	22.10	18.88	38.45	PASS
				RB6#0	21.18	17.96	38.45	PASS
				RB1#0	22.13	18.89	38.45	PASS
				RB1#2	22.11	18.86	38.45	PASS
				RB1#5	21.98	18.73	38.45	PASS
			нсн	RB3#0	22.18	18.95	38.45	PASS
				RB3#2	22.12	18.90	38.45	PASS
				RB3#3	22.15	18.90	38.45	PASS
				RB6#0	21.02	17.77	38.45	PASS



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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
				RB1#0	21.31	18.08	38.45	PASS
				RB1#2	21.36	18.15	38.45	PASS
				RB1#5	21.28	18.07	38.45	PASS
			LCH	RB3#0	21.14	17.93	38.45	PASS
				RB3#2	21.10	17.88	38.45	PASS
				RB3#3	21.10	17.87	38.45	PASS
				RB6#0	20.17	16.92	38.45	PASS
				RB1#0	21.29	18.05	38.45	PASS
				RB1#2	21.38	18.13	38.45	PASS
				RB1#5 21.31	21.31	18.08	38.45	PASS
BAND12	LTE/TM2	1.4M	MCH RB3#0 21.13  RB3#2 21.10  RB3#3 21.12	21.13	17.91	38.45	PASS	
				RB3#2	21.10	17.89	38.45	PASS
				RB3#3	21.12	17.88	38.45	PASS
				RB6#0	20.17	16.92	38.45	PASS
				RB1#0	21.24	18.00	38.45	PASS
				RB1#2	21.33	18.12	38.45	PASS
				RB1#5	21.27	18.04	38.45	PASS
			HCH	RB3#0	21.11	17.89	38.45	PASS
				RB3#2	21.08	17.87	38.45	PASS
				RB3#3	21.12	17.88	38.45	PASS
				RB6#0	20.18	16.97	38.45	PASS



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Test	Test	Test	Test		Measured	ERP	limit	
Band(LTE)	Mode	Bandwidth	channel	Test RB	(dBm)	(dBm)	(dBm)	Verdict
				RB1#0	22.06	18.84	38.45	PASS
				RB1#7	22.05	18.83	38.45	PASS
				RB1#14	22.03	18.78	38.45	PASS
			LCH	RB8#0	21.14	17.93	38.45	PASS
				RB8#4	21.13	17.92	38.45	PASS
				RB8#7	21.12	17.89	38.45	PASS
				RB15#0	21.13	17.89	38.45	PASS
				RB1#0	21.99	18.78	38.45	PASS
				RB1#7 22.14 RB1#14 22.07	22.14	18.91	38.45	PASS
					22.07	18.84	38.45	PASS
BAND12	LTE/TM1	M1 3M	MCH	RB8#0	21.21	18.01	38.45	PASS
				RB8#4 21.14 RB8#7 21.18	17.92	38.45	PASS	
					17.96	38.45	PASS	
				RB15#0	21.12	17.90	38.45	PASS
				RB1#0	22.01	18.80	38.45	PASS
				RB1#7	22.06	18.85	38.45	PASS
				RB1#14	21.98	18.76	38.45	PASS
			НСН	RB8#0	21.21	18.01	38.45	PASS
				RB8#4	21.14	17.91	38.45	PASS
				RB8#7	21.18	17.96	38.45	PASS
				RB15#0	21.20	18.00	38.45	PASS



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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
				RB1#0	21.23	18.01	38.45	PASS
				RB1#7	21.29	18.04	38.45	PASS
				RB1#14	21.18	17.94	38.45	PASS
			LCH	RB8#0	20.16	16.94	38.45	PASS
				RB8#4	20.14	16.90	38.45	PASS
				RB8#7	20.12	16.92	38.45	PASS
				RB15#0	20.09	16.87	38.45	PASS
				RB1#0	21.23	18.00	38.45	PASS
				RB1#7	21.26	18.02	38.45	PASS
				RB1#14	21.27	18.05	38.45	PASS
BAND12	LTE/TM2	3M	MCH	RB8#0	20.15	16.92	38.45	PASS
				RB8#4	20.16	16.92	38.45	PASS
				RB8#7	20.16	16.94	38.45	PASS
				RB15#0	20.11	16.88	38.45	PASS
				RB1#0	21.20	17.97	38.45	PASS
				RB1#7	21.23	18.01	38.45	PASS
				RB1#14	21.18	17.96	38.45	PASS
			HCH	RB8#0	20.14	16.91	38.45	PASS
				RB8#4	20.14	16.91	38.45	PASS
				RB8#7	20.14	16.91	38.45	PASS
				RB15#0	20.12	16.88	38.45	PASS



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Test	Test	Test	Test	Test RB	Measured	ERP	limit	Verdict
Band(LTE)	Mode	Bandwidth	channel	1621 KD	(dBm)	(dBm)	(dBm)	verdict
				RB1#0	22.03	18.79	38.45	PASS
				RB1#13	22.02	18.80	38.45	PASS
				RB1#24	21.98	18.73	38.45	PASS
			LCH	RB12#0	21.09	17.87	38.45	PASS
				RB12#6	21.09	17.88	38.45	PASS
				RB12#13	21.09	17.86	38.45	PASS
				RB25#0	21.06	17.83	38.45	PASS
				RB1#0	22.01	18.77	38.45	PASS
				RB1#13	22.06	18.85	38.45	PASS
				RB1#24	22.01	18.80	38.45	PASS
BAND12	LTE/TM1	5M	MCH	RB12#0	21.12	17.91	38.45	PASS
				RB12#6	21.13	17.90	38.45	PASS
				RB12#13	20.99	17.75	38.45	PASS
				RB25#0	21.06	17.82	38.45	PASS
				RB1#0	22.09	18.88	38.45	PASS
				RB1#13	22.08	18.84	38.45	PASS
				RB1#24	22.00	18.75	38.45	PASS
			HCH	RB12#0	21.18	17.98	38.45	PASS
				RB12#6	21.11	17.87	38.45	PASS
				RB12#13	21.11	17.87	38.45	PASS
				RB25#0	20.91	17.67	38.45	PASS



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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
				RB1#0	21.29	18.06	38.45	PASS
				RB1#13	21.21	18.00	38.45	PASS
				RB1#24	21.22	18.01	38.45	PASS
			LCH	RB12#0	20.06	16.81	38.45	PASS
				RB12#6	20.06	16.81	38.45	PASS
				RB12#13	20.02	16.78	38.45	PASS
				RB25#0	19.88	16.67	38.45	PASS
				RB1#0	21.23	18.01	38.45	PASS
				RB1#13	21.38	18.17	38.45	PASS
				RB1#24	21.34	18.09	38.45	PASS
BAND12	LTE/TM2	5M	MCH	RB12#0	20.15	16.92	38.45	PASS
				RB12#6	20.21	17.00	38.45	PASS
				RB12#13	20.33	17.12	38.45	PASS
				RB25#0	20.27	17.07	38.45	PASS
				RB1#0	21.33	18.09	38.45	PASS
				RB1#13	21.33	18.10	38.45	PASS
				RB1#24	21.21	17.98	38.45	PASS
			НСН	RB12#0	20.22	17.02	38.45	PASS
				RB12#6	20.18	16.96	38.45	PASS
				RB12#13	20.19	16.95	38.45	PASS
				RB25#0	20.16	16.94	38.45	PASS



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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
				RB1#0	22.03	18.83	38.45	PASS
				RB1#25	22.05	18.80	38.45	PASS
				RB1#49	22.11	18.87	38.45	PASS
			LCH	RB25#0	21.07	17.86	38.45	PASS
				RB25#13	21.11	17.88	38.45	PASS
				RB25#25	21.13	17.89	38.45	PASS
				RB50#0	21.12	17.90	38.45	PASS
				RB1#0	22.01	18.78	38.45	PASS
				RB1#25	22.10	18.89	38.45	PASS
				RB1#49	22.12	18.87	38.45	PASS
BAND12	LTE/TM1	10M	MCH	RB25#0	21.11	17.89	38.45	PASS
				RB25#13	21.15	17.93	38.45	PASS
				RB25#25	21.15	17.91	38.45	PASS
				RB50#0	21.15	17.93	38.45	PASS
				RB1#0	22.06	18.83	38.45	PASS
				RB1#25	22.11	18.90	38.45	PASS
				RB1#49	22.10	18.87	38.45	PASS
			HCH	RB25#0	21.13	17.88	38.45	PASS
				RB25#13	21.17	17.95	38.45	PASS
				RB25#25	21.20	17.95	38.45	PASS
				RB50#0	21.18	17.96	38.45	PASS



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Test	Test	Test	Test		Measured	ERP	limit	Verdic
Band(LTE)	Mode	Bandwidth	channel	Test RB	(dBm)	(dBm)	(dBm)	t
Dana(212)	modo	Danawiani	- CHAINION	RB1#0	21.24	18.03	38.45	PASS
				RB1#25	21.21	18.00	38.45	PASS
				RB1#49	21.31	18.07	38.45	PASS
			LCH	RB25#0	20.01	16.80	38.45	PASS
				RB25#13	20.00	16.75	38.45	PASS
				RB25#25	20.05	16.84	38.45	PASS
				RB50#0	19.90	16.68	38.45	PASS
				RB1#0	21.09	17.85	38.45	PASS
				RB1#25	21.36	18.14	38.45	PASS
				RB1#49	21.39	18.17	38.45	PASS
BAND12	LTE/TM2	10M	MCH	RB25#0	20.18	16.95	38.45	PASS
				RB25#13	20.18	16.98	38.45	PASS
				RB25#25	20.15	16.94	38.45	PASS
				RB50#0	20.15	16.90	38.45	PASS
				RB1#0	21.45	18.24	38.45	PASS
				RB1#25	21.37	18.15	38.45	PASS
				RB1#49	21.32	18.08	38.45	PASS
			HCH	RB25#0	20.21	17.01	38.45	PASS
				RB25#13	20.14	16.90	38.45	PASS
				RB25#25	20.18	16.94	38.45	PASS
				RB50#0	20.27	17.05	38.45	PASS

#### Note:

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

ERP [dBm] = SGP [dBm] - Cable Loss [dB] + Gain [dBd]

b: SGP=Signal Generator Level

c: RBW > emission bandwidth, VBW > 3 x RBW.

Detector: RMS



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### 2 Peak-to-Average Ratio

#### Part I - Test Results

Test Band	Test Mode	Test Channel	Measured[dB]	Limit [dB]	Verdict
		LCH	5.30	13	PASS
	TM1/10M	MCH	4.90	13	PASS
DAND42		HCH	4.75	13	PASS
BAND12		LCH	5.97	13	PASS
	TM2/10M	MCH	5.74	13	PASS
		HCH	5.51	13	PASS



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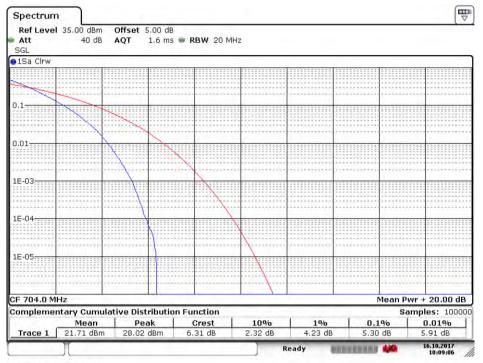
#### Part II - Test Plots

### 2.1 For LTE

#### 2.1.1 Test Band = LTE band12

#### 2.1.1.1 Test Mode = LTE/TM1.Bandwidth=10MHz

#### 2.1.1.1.1 Test Channel = LCH



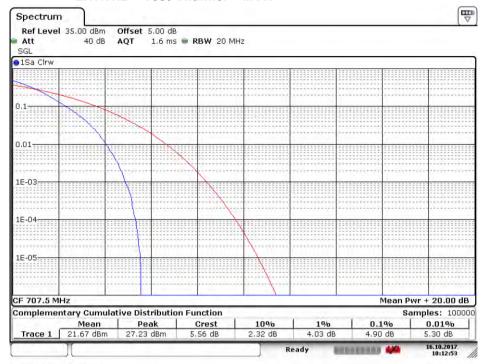
Date: 16.OCT.2017 10:09:06



Report No.: SZEM170900995904

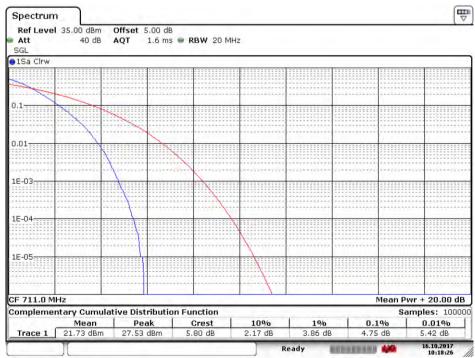
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#### 2.1.1.1.2 Test Channel = MCH



Date: 16.OCT.2017 10:12:53

#### 2.1.1.1.3 Test Channel = HCH



Date: 16.OCT.2017 10:18:26



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### 2.1.1.2 Test Mode = LTE/TM2.Bandwidth=10MHz

#### 2.1.1.2.1 Test Channel = LCH



Date: 16.OCT.2017 10:19:34

#### 2.1.1.2.2 **Test Channel = MCH**



Date: 16.OCT.2017 10:19:14

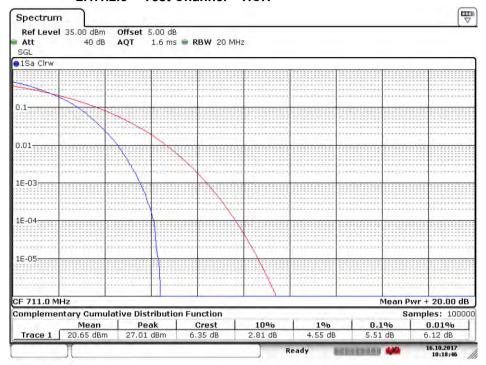
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#### 2.1.1.2.3 Test Channel = HCH



Date: 16.OCT.2017 10:18:46



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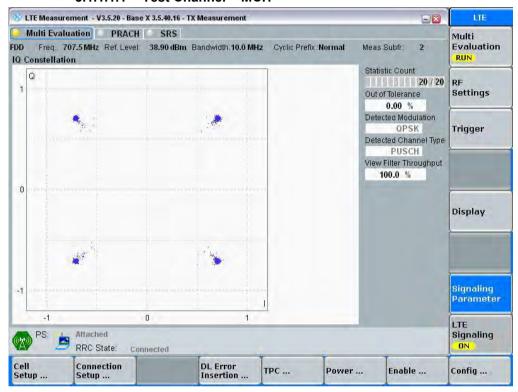
### 3 Modulation Characteristics

### 3.1 For LTE

3.1.1 Test Band = LTE band12

3.1.1.1 Test Mode = LTE /TM1 10MHz

3.1.1.1.1 Test Channel = MCH

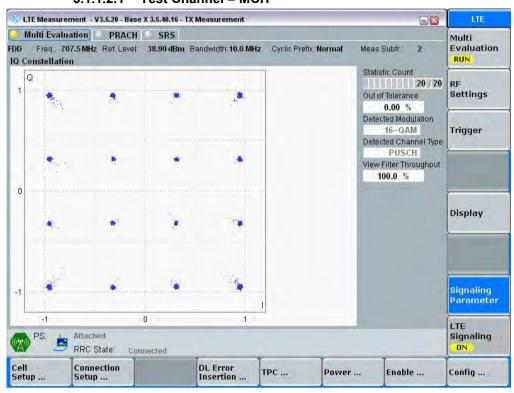




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### 3.1.1.2 Test Mode = LTE /TM2 10MHz 3.1.1.2.1 Test Channel = MCH





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### 4 Bandwidth

Part I - Test Results

Test Band	Test Mode	Test Channel	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
		LCH	1.10	1.29	PASS
	TM1/1.4MHz	MCH	1.10	1.26	PASS
		HCH	1.10	1.28	PASS
		LCH	1.09	1.26	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	2.68	2.88	PASS
		HCH	2.69	2.94	PASS
		LCH	2.68	2.92	PASS
	TM2/3MHz	MCH	2.69	2.93	PASS PASS PASS PASS PASS
		HCH	2.69	2.93	PASS
BAND12		LCH	4.50	4.97	PASS
	TM1/ 5MHz	MCH	4.48	4.93	PASS
		HCH	4.50	4.98	PASS
		LCH	4.49	4.94	PASS
	TM2/ 5MHz	MCH	4.48	4.95	PASS
		HCH	4.49	4.97	PASS
		LCH	8.97	9.69	PASS
	TM1/10MHz	MCH	8.95	9.71	PASS
		HCH	8.93	9.79	PASS
		LCH	8.99	9.81	PASS
	TM2/ 10MHz	MCH	8.95	9.73	PASS
		HCH	8.89	9.65	PASS



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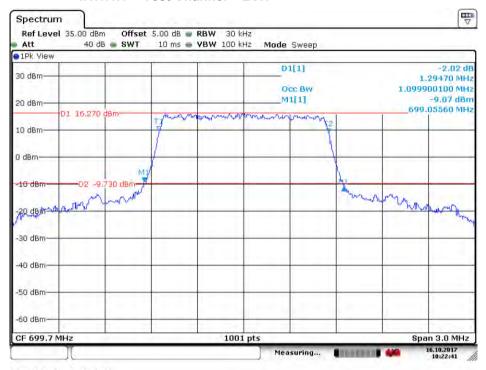
#### Part II -Test Plots

### 4.1 For LTE

#### 4.1.1 Test Band = LTE band12

#### 4.1.1.1 Test Mode = LTE/TM1 1.4MHz

#### 4.1.1.1.1 Test Channel = LCH



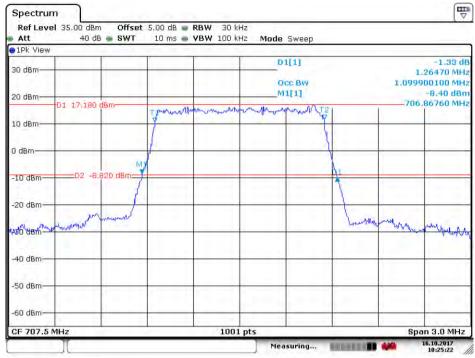
Date: 16.OCT.2017 10:22:42



Report No.: SZEM170900995904

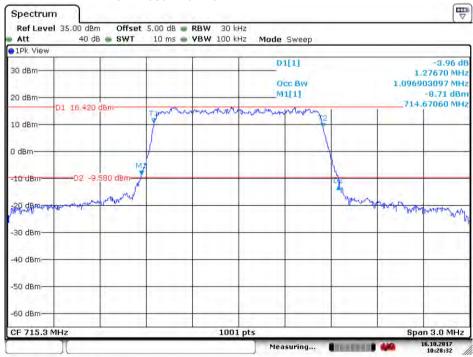
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#### **4.1.1.1.2** Test Channel = MCH



Date: 16.OCT.2017 10:25:22

#### 4.1.1.1.3 Test Channel = HCH



Date: 16.OCT.2017 10:28:33

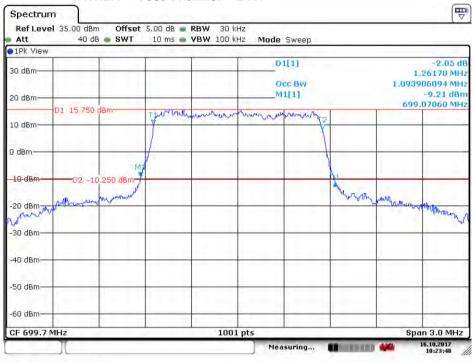


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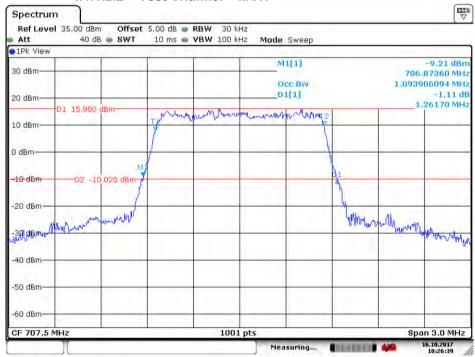
#### 4.1.1.2 Test Mode = LTE/TM2 1.4MHz

#### 4.1.1.2.1 Test Channel = LCH



Date: 16.OCT.2017 10:23:48

#### 4.1.1.2.2 Test Channel = MCH



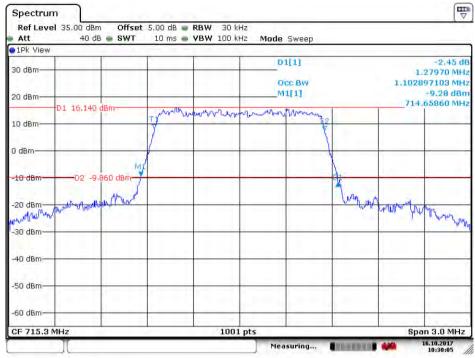
Date: 16.OCT.2017 10:26:38



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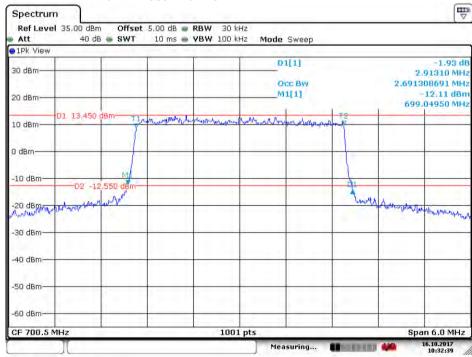
#### 4.1.1.2.3 Test Channel = HCH



Date: 16.OCT.2017 10:30:06

### 4.1.1.3 Test Mode = LTE/TM1 3MHz

#### 4.1.1.3.1 Test Channel = LCH



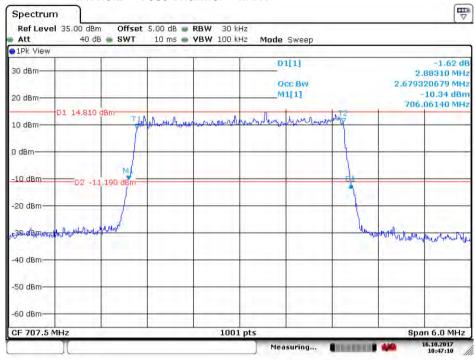
Date: 16.OCT.2017 10:32:39



Report No.: SZEM170900995904

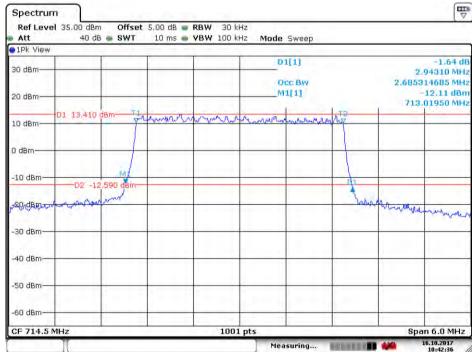
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#### 4.1.1.3.2 Test Channel = MCH



Date: 16.OCT.2017 10:47:10

### 4.1.1.3.3 **Test Channel = HCH**



Date: 16.OCT.2017 10:42:37

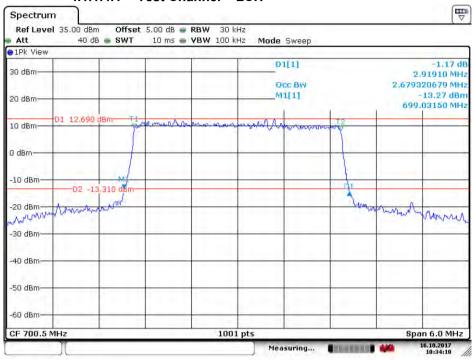


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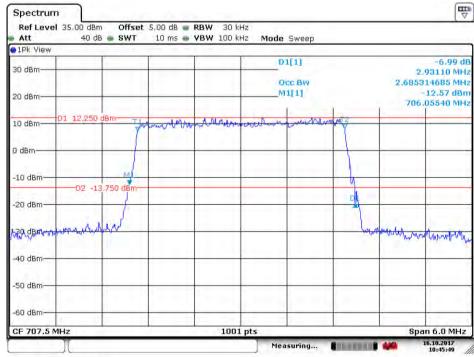
#### 4.1.1.4 Test Mode = LTE/TM2 3MHz

#### 4.1.1.4.1 Test Channel = LCH



Date: 16.OCT.2017 10:34:10

#### 4.1.1.4.2 Test Channel = MCH



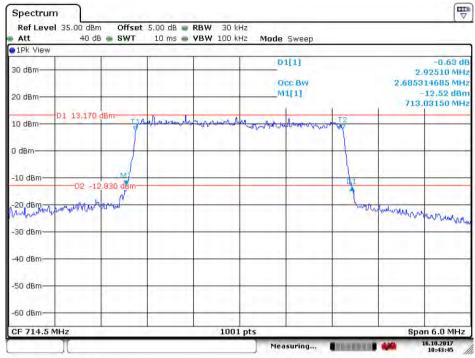
Date: 16.OCT.2017 10:45:50



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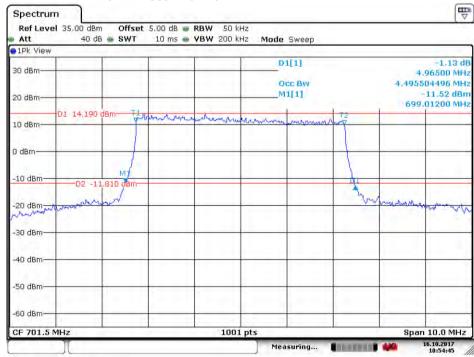
#### 4.1.1.4.3 Test Channel = HCH



Date: 16.OCT.2017 10:43;45

### 4.1.1.5 Test Mode = LTE/TM1 5MHz

#### 4.1.1.5.1 Test Channel = LCH



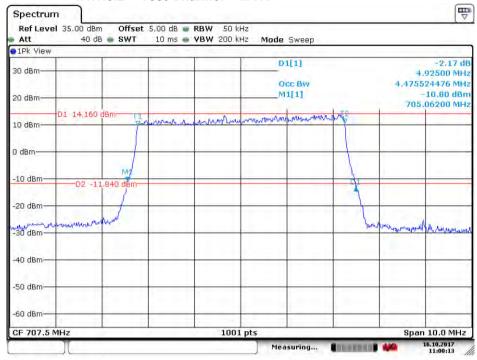
Date: 16.OCT.2017 10:54:45



Report No.: SZEM170900995904

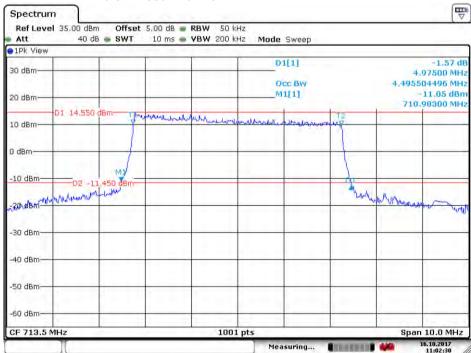
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#### 4.1.1.5.2 Test Channel = MCH



Date: 16.OCT.2017 11:00:13

### 4.1.1.5.3 Test Channel = HCH



Date: 16.OCT.2017 11:02:30

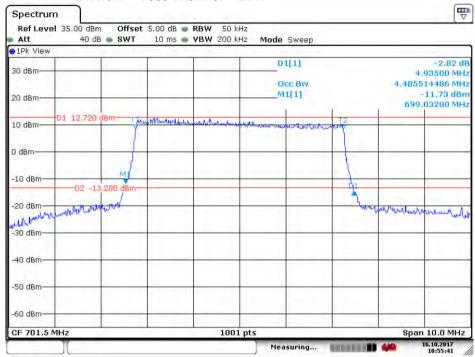


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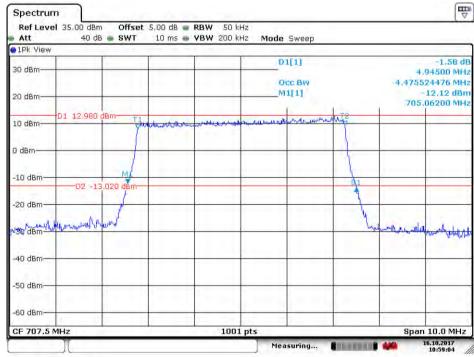
#### 4.1.1.6 Test Mode = LTE/TM2 5MHz

#### 4.1.1.6.1 Test Channel = LCH



Date: 16.OCT.2017 10:55:41

#### 4.1.1.6.2 Test Channel = MCH



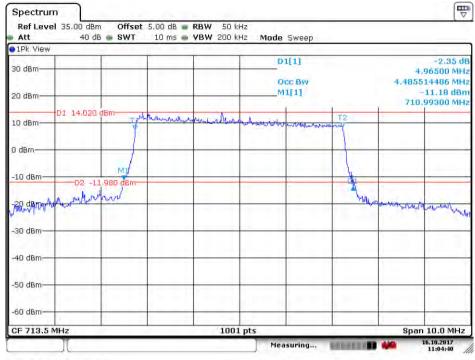
Date: 16.OCT.2017 10:59:04



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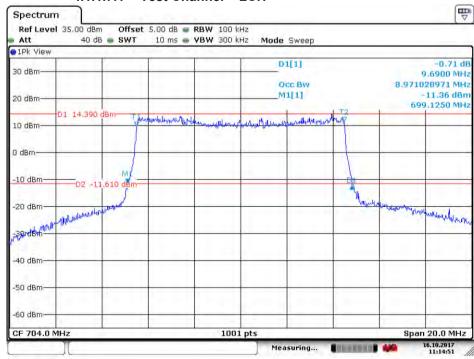
#### 4.1.1.6.3 Test Channel = HCH



Date: 16.OCT.2017 11:04:40

### 4.1.1.7 Test Mode = LTE/TM1 10MHz

#### 4.1.1.7.1 Test Channel = LCH



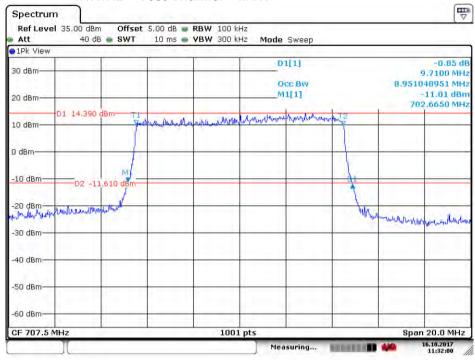
Date: 16.OCT.2017 11:14:51



Report No.: SZEM170900995904

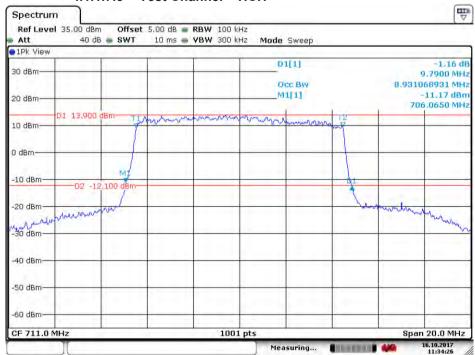
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Date: 16.OCT.2017 11:32:00

#### 4.1.1.7.3 Test Channel = HCH



Date: 16.OCT.2017 11:34:26

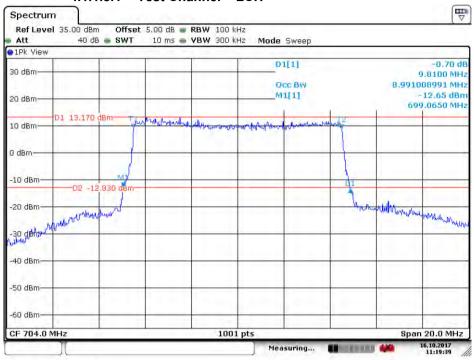


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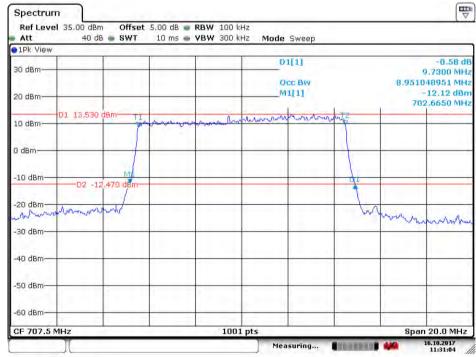
#### 4.1.1.8 Test Mode = LTE/TM2 10MHz

#### 4.1.1.8.1 Test Channel = LCH



Date: 16.OCT.2017 11:19:39

#### 4.1.1.8.2 Test Channel = MCH



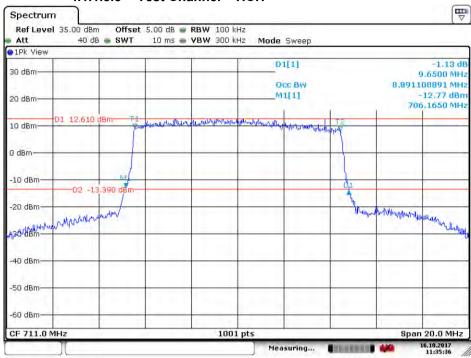
Date: 16.OCT.2017 11:31:04



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#### 4.1.1.8.3 Test Channel = HCH



Date: 16.OCT.2017 11:35:36



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### 5 Band Edges Compliance

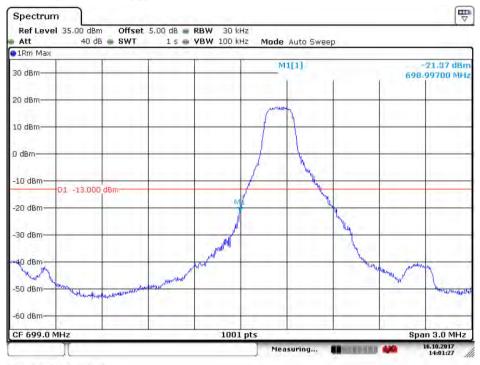
#### 5.1 For LTE

5.1.1 Test Band = LTE band12

5.1.1.1 Test Mode = LTE/TM1 1.4MHz

**5.1.1.1.1** Test Channel = LCH

#### 5.1.1.1.1 Test RB=1RB



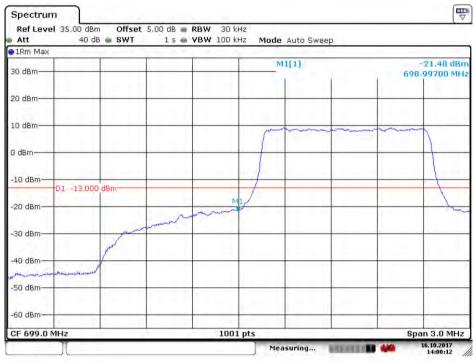
Date: 16.OCT.2017 14:01:28



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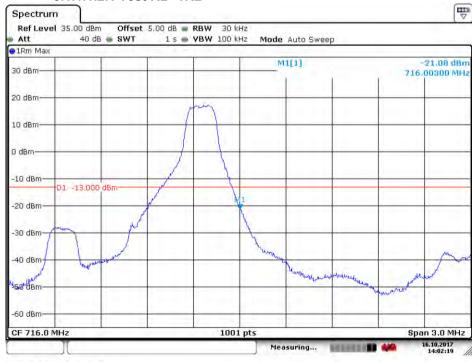
#### 5.1.1.1.1.2 Test RB=6RB



Date: 16.OCT.2017 14:00:12

#### **5.1.1.1.2** Test Channel = HCH

#### 5.1.1.1.2.1 Test RB=1RB



Date: 16.OCT.2017 14:02:19



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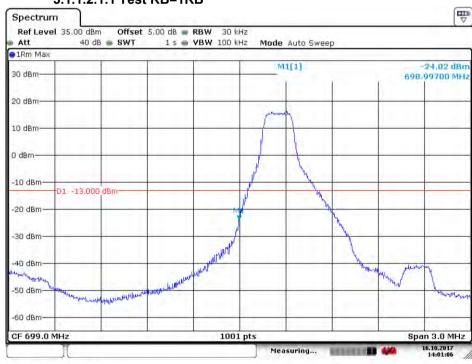
#### 5.1.1.1.2.2 Test RB=6RB



Date: 16.OCT.2017 14:04:18

### 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: 16.OCT.2017 14:01:06



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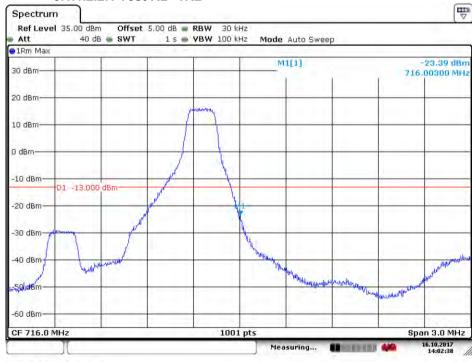
#### 5.1.1.2.1.2 Test RB=6RB



Date: 16.OCT.2017 14:00:46

#### 5.1.1.2.2 Test Channel = HCH

#### 5.1.1.2.2.1 Test RB=1RB



Date: 16.OCT.2017 14:02:38



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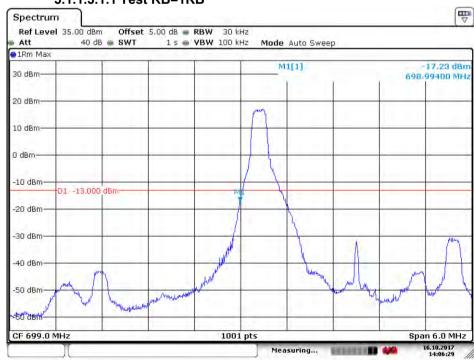
#### 5.1.1.2.2.2 Test RB=6RB



Date: 16.OCT.2017 14:02:53

### 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



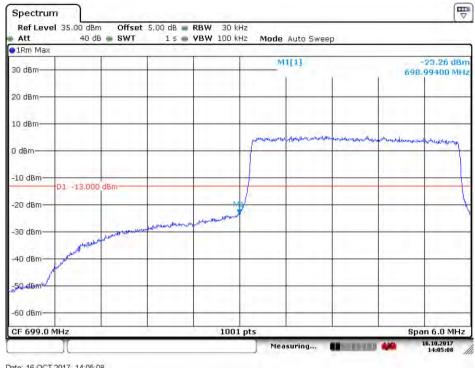
Date: 16.OCT.2017 14:06:30



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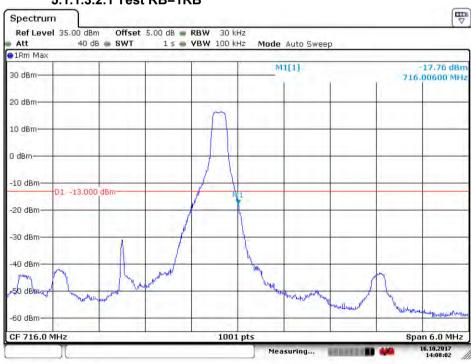
#### 5.1.1.3.1.2 Test RB=15RB



Date: 16.OCT.2017 14:05:08

#### 5.1.1.3.2 Test Channel = HCH

#### 5.1.1.3.2.1 Test RB=1RB



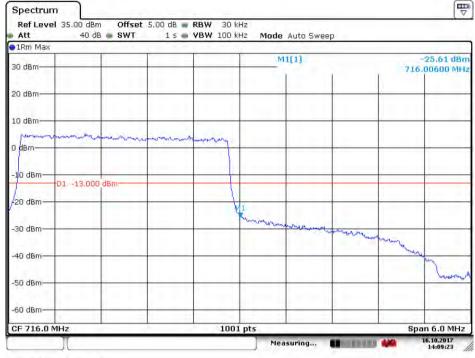
Date: 16.OCT.2017 14:08:02



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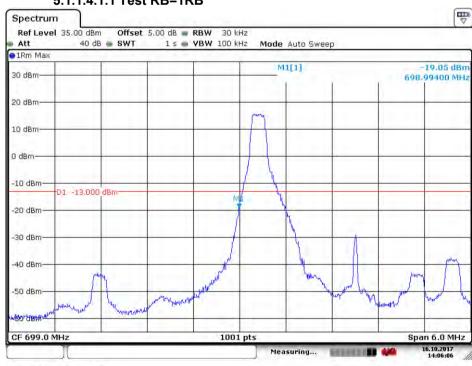
#### 5.1.1.3.2.2 Test RB=15RB



Date: 16.OCT.2017 14:09:23

### 5.1.1.4 Test Mode = LTE/TM2 3MHz 5.1.1.4.1 Test Channel = LCH

#### 5.1.1.4.1.1 Test RB=1RB



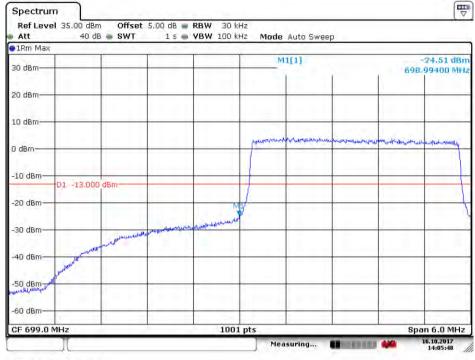
Date: 16.OCT.2017 14:06:07



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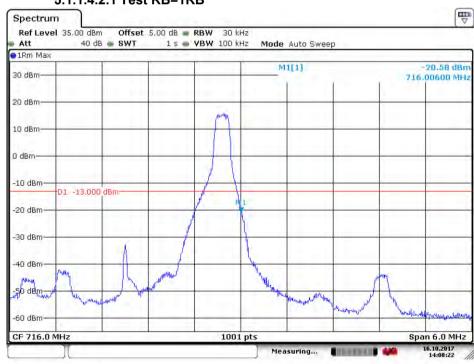
#### 5.1.1.4.1.2 Test RB=15RB



Date: 16.OCT.2017 14:05:48

#### 5.1.1.4.2 Test Channel = HCH

#### 5.1.1.4.2.1 Test RB=1RB



Date: 16.OCT.2017 14:08:23



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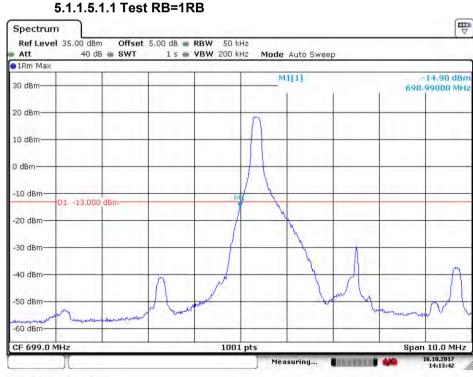
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#### 5.1.1.4.3 Test RB=15RB



Date: 16.OCT.2017 14:08:54

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



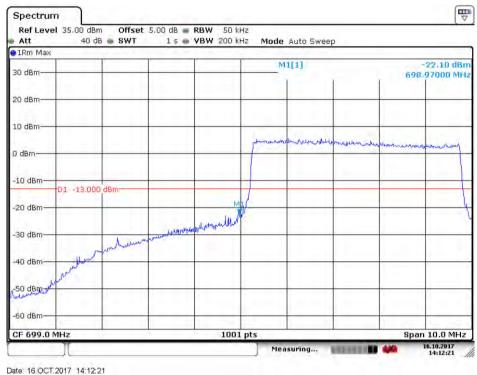
Date: 16.OCT.2017 14:13:42



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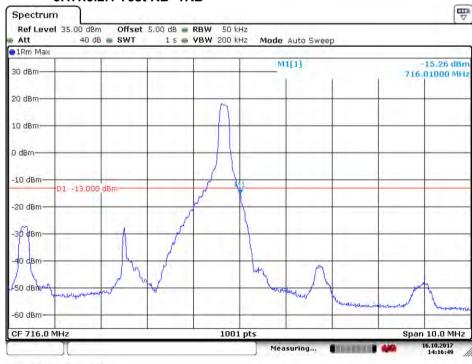
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#### 5.1.1.5.1.2 Test RB=25RB



#### **5.1.1.5.2** Test Channel = HCH

#### 5.1.1.5.2.1 Test RB=1RB



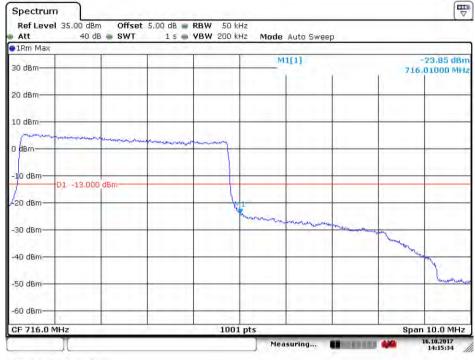
Date: 16.OCT.2017 14:16:50



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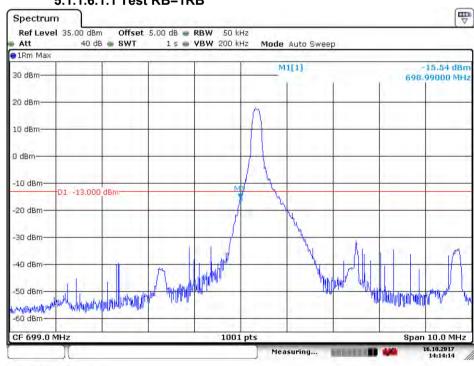
#### 5.1.1.5.2.2 Test RB=25RB



Date: 16.OCT.2017 14:15:34

### 5.1.1.6 Test Mode = LTE/TM2 5MHz 5.1.1.6.1 Test Channel = LCH

#### 5.1.1.6.1.1 Test RB=1RB



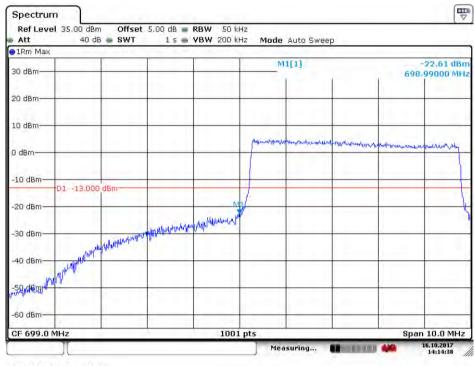
Date: 16.OCT.2017 14:14:14



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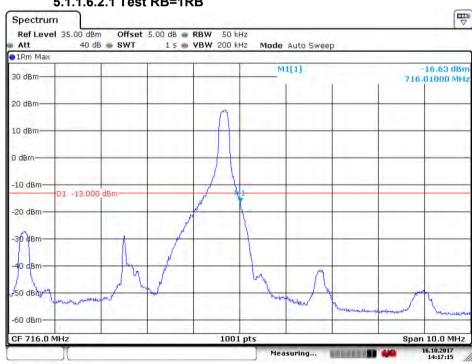
#### 5.1.1.6.1.2 Test RB=25RB



Date: 16.OCT.2017 14:14:39

#### **5.1.1.6.2** Test Channel = HCH

#### 5.1.1.6.2.1 Test RB=1RB



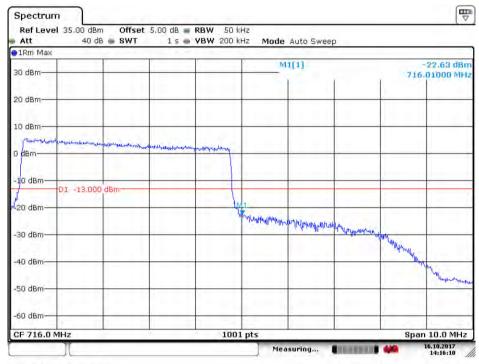
Date: 16.OCT.2017 14:17:16



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#### 5.1.1.6.2.2 Test RB=25RB

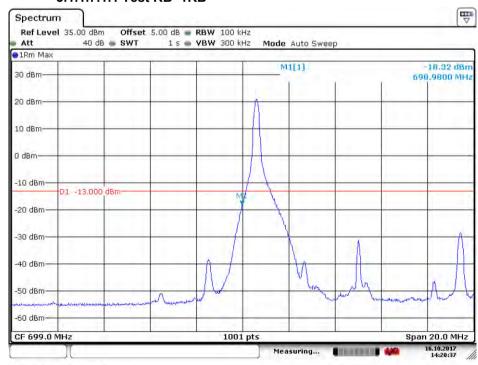


Date: 16.OCT.2017 14:16:10

### 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: 16.OCT.2017 14:20:37



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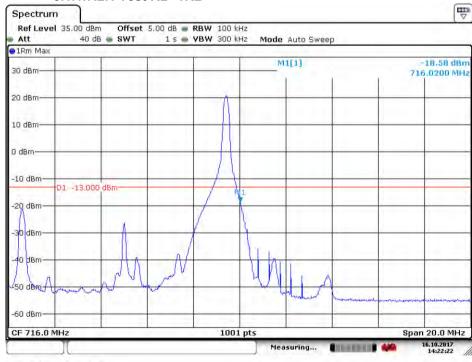
#### 5.1.1.7.1.2 Test RB=50RB



Date: 16.OCT.2017 14:20:14

#### **5.1.1.7.2** Test Channel = HCH

#### 5.1.1.7.2.1 Test RB=1RB



Date: 16.OCT.2017 14:22:23



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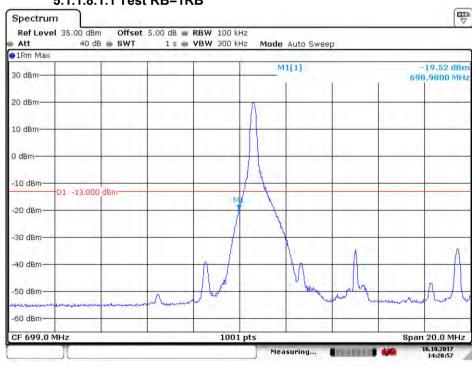
#### 5.1.1.7.2.2 Test RB=50RB



Date: 16.OCT.2017 14:26:17

### 5.1.1.8 Test Mode = LTE/TM2 10MHz 5.1.1.8.1 Test Channel = LCH

#### 5.1.1.8.1.1 Test RB=1RB



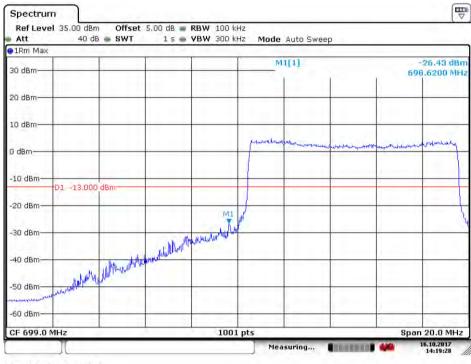
Date: 16.OCT.2017 14:20:57



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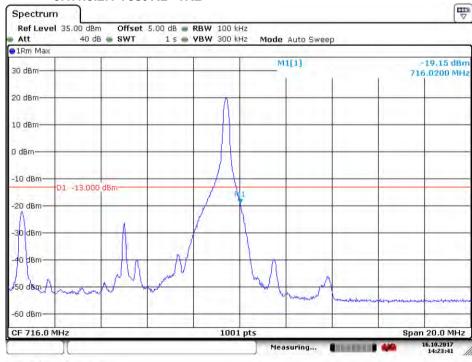
#### 5.1.1.8.1.2 Test RB=50RB



Date: 16.OCT.2017 14:19:28

#### **5.1.1.8.2** Test Channel = HCH

#### 5.1.1.8.2.1 Test RB=1RB



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#### 5.1.1.8.2.2 Test RB=50RB



Date: 16.OCT.2017 14:26:37



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### 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 = 4 \* (Span / RBW) with k = 4 \* (Span / RBW).

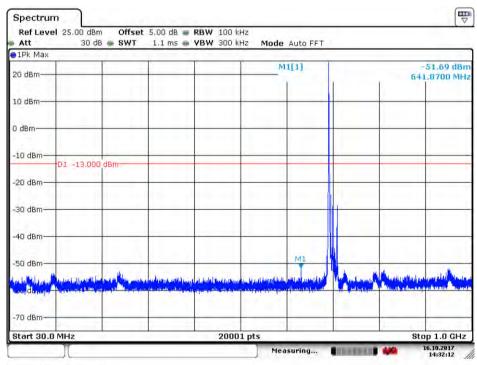
Part I - Test Plots

#### 6.1 For LTE

#### 6.1.1 Test Band = LTE band12

#### 6.1.1.1 Test Mode = LTE / TM1 10MHz RB1#0

#### 6.1.1.1.1 Test Channel = LCH

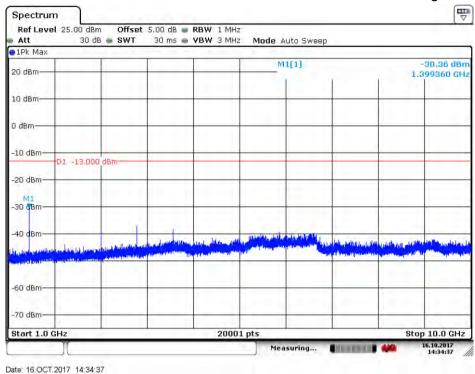


Date: 16.OCT.2017 14:32:12

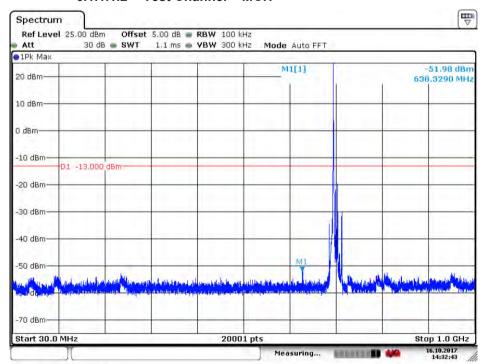


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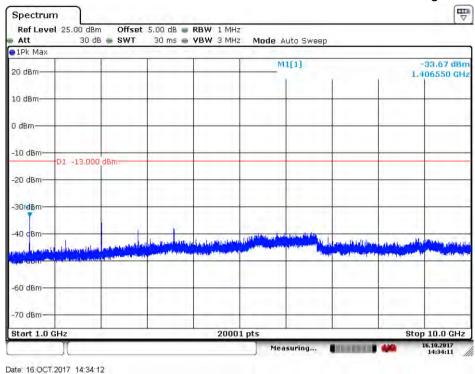


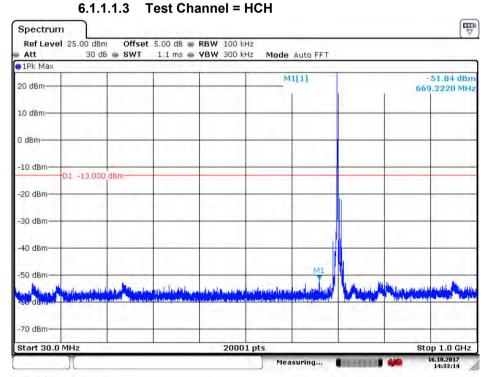
Date: 16.OCT.2017 14:32:43



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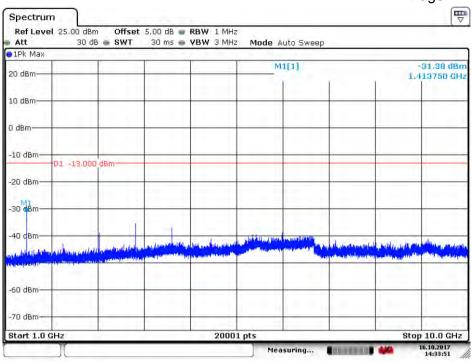


Date: 16.OCT.2017 14:33:15



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Date: 16.OCT.2017 14:33;52



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### 7 Field Strength of Spurious Radiation

### 7.1 For LTE

### Main Supply:

#### 7.1.1 Test Band = LTE band12

#### 7.1.1.1 Test Mode =LTE/TM1 10MHz RB1#0

#### 7.1.1.1.1 Test Channel = LCH

	100t Onamio E			
Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
1485.000	-66.29	-13.00	-53.29	Vertical
4462.500	-67.10	-13.00	-54.10	Vertical
6315.000	-65.09	-13.00	-52.09	Vertical
1276.000	-67.05	-13.00	-54.05	Horizontal
4950.000	-66.04	-13.00	-53.04	Horizontal
7972.500	-63.53	-13.00	-50.53	Horizontal

#### 7.1.1.1.2 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
1650.000	-64.84	-13.00	-51.84	Vertical
4170.000	-66.99	-13.00	-53.99	Vertical
6217.500	-64.75	-13.00	-51.75	Vertical
1364.000	-67.46	-13.00	-54.46	Horizontal
1892.000	-59.03	-13.00	-46.03	Horizontal
6217.500	-65.01	-13.00	-52.01	Horizontal

#### 7.1.1.1.3 Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
1507.000	-66.33	-13.00	-53.33	Vertical
4462.500	-67.06	-13.00	-54.06	Vertical
7972.500	-63.51	-13.00	-50.51	Vertical
1463.000	-65.92	-13.00	-52.92	Horizontal
5145.000	-66.37	-13.00	-53.37	Horizontal
7875.000	-63.48	-13.00	-50.48	Horizontal



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### **Secondary Supply:**

#### 7.1.2 Test Band = LTE band12

#### 7.1.2.1 Test Mode =LTE/TM1 10MHz RB1#0

#### 7.1.2.1.1 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
1408.000	-57.67	-13.00	-44.67	Vertical
4170.000	-66.74	-13.00	-53.74	Vertical
7972.500	-63.42	-13.00	-50.42	Vertical
2123.000	-48.17	-13.00	-35.17	Horizontal
4267.500	-66.44	-13.00	-53.44	Horizontal
8655.000	-63.76	-13.00	-50.76	Horizontal

#### NOTE:

1) All modes are tested, but the data presented above is the worst case. 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.



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### 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
			TN	VL	-2.63	-0.00374	PASS
		LCH		VN	1.42	0.00202	PASS
				VH	-5.23	-0.00743	PASS
				VL	-3.56	-0.00503	PASS
	LTE/TM1 10MHz	MCH	TN	VN	-2.80	-0.00396	PASS
				VH	1.72	0.00243	PASS
				VL	-5.36	-0.00754	PASS
		HCH	TN	VN	-4.20	-0.00591	PASS
LTE band12				VH	-2.88	-0.00405	PASS
LIE Danu 12	LTE/TM2 10MHz	LCH	TN	VL	-4.30	-0.00611	PASS
				VN	-3.37	-0.00479	PASS
				VH	-5.13	-0.00729	PASS
			TN	VL	1.20	0.00170	PASS
		MCH		VN	-3.99	-0.00564	PASS
				VH	1.63	0.00230	PASS
		HCH TN		VL	-2.32	-0.00326	PASS
			TN	VN	-6.10	-0.00858	PASS
				VH	5.18	0.00729	PASS



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### 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	-4.45	-0.00632	PASS
				-20	-2.38	-0.00338	PASS
				-10	-2.77	-0.00393	PASS
				0	3.20	0.00455	PASS
		LCH	VN	10	1.29	0.00183	PASS
				20	0.59	0.00084	PASS
				30	-2.68	-0.00381	PASS
				40	-2.70	-0.00384	PASS
				50	-6.02	-0.00855	PASS
				-30	-5.14	-0.00727	PASS
	LTE/TM1 10MHz	МСН	VN	-20	-5.20	-0.00735	PASS
				-10	-3.32	-0.00469	PASS
				0	-1.57	-0.00222	PASS
LTE band12				10	-2.27	-0.00321	PASS
				20	-2.89	-0.00408	PASS
				30	-3.09	-0.00437	PASS
				40	-4.88	-0.00690	PASS
				50	-5.22	-0.00738	PASS
				-30	-6.68	-0.00940	PASS
				-20	-3.24	-0.00456	PASS
				-10	1.69	0.00238	PASS
				0	-2.40	-0.00338	PASS
		HCH	VN	10	2.44	0.00343	PASS
				20	-0.39	-0.00055	PASS
				30	-2.43	-0.00342	PASS
				40	-4.59	-0.00646	PASS
				50	-3.88	-0.00546	PASS



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		1 age. 00 01 00					
Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
				-30	-3.67	-0.00521	PASS
				-20	-2.42	-0.00344	PASS
				-10	1.20	0.00170	PASS
				0	2.21	0.00314	PASS
		LCH	VN	10	1.70	0.00241	PASS
				20	-0.83	-0.00118	PASS
				30	-6.03	-0.00857	PASS
				40	2.27	0.00322	PASS
				50	-4.82	-0.00685	PASS
				-30	-3.32	-0.00469	PASS
	LTE/TM2 10MHz		VN	-20	-2.66	-0.00376	PASS
		МСН		-10	-5.10	-0.00721	PASS
				0	-1.83	-0.00259	PASS
LTE band12				10	-2.79	-0.00394	PASS
				20	2.23	0.00315	PASS
				30	-2.29	-0.00324	PASS
				40	-6.08	-0.00859	PASS
				50	-5.43	-0.00767	PASS
				-30	-3.03	-0.00426	PASS
				-20	-4.60	-0.00647	PASS
				-10	2.39	0.00336	PASS
				0	-3.48	-0.00489	PASS
		HCH	VN	10	2.72	0.00383	PASS
				20	-1.99	-0.00280	PASS
				30	-3.39	-0.00477	PASS
			_	40	-4.30	-0.00605	PASS
				50	-4.80	-0.00675	PASS

The End