Tune up procedure

FCC ID: 2AEHNG1058

Tune up procedure shall be over the power range or at specific operating power levels.

Target Power range:

	GSM - Burst Average Power (dBm)									
Band	GSM850			Tune-up		Tune-up				
Channel	128	190	251	power	512	661	810	power		
Frequency (MHz)	824.2	836.6	848.8	(dBm)	1850.2	1880	1909.8	(dBm)		
GPRS (1 slot)	32.41	32.43	32.52	33.0	29.33	29.91	30.11	30.5		
GPRS (2 slots)	30.46	30.53	30.59	31.0	26.21	26.78	27.01	27.5		
GPRS (3 slots)	28.85	28.89	28.92	29.0	25.54	25.46	25.67	26.0		
GPRS (4 slots)	27.65	27.69	27.74	28.0	24.46	24.57	24.61	25.0		
EDGE(1 slot)	28.13	28.21	28.16	28.5	27.23	26.79	26.78	27.5		
EDGE (2 slots)	27.43	27.53	27.46	28.0	26.54	25.93	26.05	27.0		
EDGE (3 slots)	25.51	25.68	25.55	26.0	24.98	24.89	24.88	25.0		
EDGE (4 slots)	24.46	24.49	24.45	25.0	22.99	22.87	22.91	23.0		

	GSM - Source-Based Time-Average Power (dBm)									
Band	GSM850 Tune-up PCS1900				Tune-up					
Channel	128	190	251	power	512	661	810	power		
Frequency (MHz)	824.2	836.6	848.8	(dBm)	1850.2	1880	1909.8	(dBm)		
GPRS (1 slot)	23.41	23.43	23.52	24.0	20.33	20.91	21.11	21.5		
GPRS (2 slots)	24.46	24.53	24.59	25.0	20.21	20.78	21.01	21.5		
GPRS (3 slots)	24.60	24.64	24.67	25.0	21.29	21.21	21.42	21.5		
GPRS (4 slots)	24.65	24.69	24.74	25.0	21.46	21.57	21.61	22.0		
EDGE(1 slot)	19.13	19.21	19.16	19.5	18.23	17.79	17.78	18.5		
EDGE (2 slots)	21.43	21.53	21.46	22.0	20.54	19.93	20.05	21.0		
EDGE (3 slots)	21.26	21.43	21.30	21.5	20.73	20.64	20.63	21.0		
EDGE (4 slots)	21.46	21.49	21.45	21.5	19.99	19.87	19.91	20.0		

WCDMA - Average Power (dBm)									
Band		WCDMA Band II				WCDMA Band V			
Channel	9262	9400	9538	Tune-up	4132	4183	4233	Tune-up	
Frequency (MHz)	1852.4	1880.0	1907.6	power (dBm)	826.4	836.6	846.6	power (dBm)	
RMC 12.2k	22.54	23.07	22.84	23.5	22.81	22.83	22.94	23.0	
HSDPA Subtest-1	21.68	22.22	21.87	22.5	21.93	21.96	21.98	22.0	
HSDPA Subtest-2	21.54	22.03	21.69	22.5	21.75	21.81	21.84	22.0	
HSDPA Subtest-3	21.53	22.06	21.67	22.5	21.74	21.81	21.84	22.0	
HSDPA Subtest-4	21.43	21.97	21.54	22.5	21.56	21.72	21.75	22.0	
HSUPA Subtest-1	21.54	21.98	21.63	22.0	21.71	21.87	21.89	22.0	
HSUPA Subtest-2	21.37	21.78	21.56	22.0	21.63	21.78	21.81	22.0	
HSUPA Subtest-3	21.34	21.77	21.56	22.0	21.46	21.55	21.61	22.0	
HSUPA Subtest-4	21.22	21.64	21.43	22.0	21.46	21.55	21.61	22.0	
HSUPA Subtest-5	21.36	21.73	21.55	22.0	21.46	21.55	21.57	22.0	

FDD-LTE Band 2:

		Chan	nel Bandwidth: 1.	4 MHz	
Modulation	Channel		nfiguration	Average Power [dBm]	MPR (dB)
		Size	Offset		(02)
		1	0	20.69	0
		1	3	20.71	0
		1	5	20.67	0
	LCH	3	0	20.37	0
		3	2	20.36	0
		3	3	20.37	0
		6	0	19.61	1
		1	0	20.98	0
		1	3	21.03	0
		1	5	20.99	0
QPSK	MCH	3	0	20.37	0
		3	2	20.38	0
		3	3	20.37	0
		6	0	19.95	1
		1	0	21.09	0
		1	3	21.08	0
		1	5	21.1	0
	нсн	3	0	20.32	0
		3	2	20.36	0
		3	3	20.37	0
		6	0	20.09	1
		1	0	19.75	1
		1	3	19.74	1
		1	5	19.69	1
	LCH	3	0	19.37	1
		3	2	19.32	1
		3	3	19.31	1
		6	0	18.67	2
		1	0	20.19	1
16QAM		1	3	20.12	1
		1	5	20.09	1
	мсн	3	0	19.87	1
		3	2	19.86	1
		3	3	19.79	1
		6	0	19.03	2
		1	0	20.17	1
	HCH	1	3	20.11	1

1	5	20.08	1
3	0	19.89	1
3	2	19.87	1
3	3	19.77	1
6	0	19.03	2

		Char	nnel Bandwidth:	3 MHz	
Modulation	Channel	RB Co	nfiguration	Average Power [dBm]	MPR (dB)
Woodilation	Charmer	Size	Offset	Average Fower [dbfff]	Wii IX (GD)
		1	0	20.57	0
		1	7	20.67	0
		1	14	20.56	0
	LCH	8	0	19.59	1
		8	4	19.62	1
		8	7	19.67	1
		15	0	19.62	1
		1	0	21.06	0
		1	7	21.05	0
		1	14	20.89	0
QPSK	MCH	8	0	20.06	1
		8	4	20.12	1
		8	7	20.07	1
		15	0	20.02	1
		1	0	21.09	0
		1	7	21.08	0
	нсн	1	14	21.04	0
		8	0	20.07	1
		8	4	20.03	1
		8	7	20.07	1
		15	0	20.05	1
		1	0	20.17	1
		1	7	20.15	1
		1	14	20.13	1
	LCH	8	0	19.46	2
		8	4	19.47	2
		8	7	19.42	2
16QAM		15	0	18.67	2
		1	0	20.14	1
		1	7	20.09	1
		1	14	20.07	1
	MCH	8	0	19.43	2
		8	4	19.47	2
		8	7	19.46	2

	15	0	18.96	2
	1	0	20.25	1
	1	7	20.19	1
	1	14	20.17	1
HCH	8	0	19.48	2
	8	4	19.49	2
	8	7	19.43	2
	15	0	19.43	2

		Chanr	nel Bandwidth: 5	MHz	
Modulation	Channel	RB Con	figuration	Average Power [dBm]	MPR (dB)
Modulation	Channel	Size	Offset	Average Fower [dbill]	MFR (db)
		1	0	20.68	0
		1	12	20.65	0
		1	24	20.59	0
	LCH	12	0	19.67	1
		12	6	19.64	1
		12	13	19.61	1
		25	0	19.61	1
		1	0	21.12	0
		1	12	21.09	0
		1	24	21.07	0
QPSK	MCH	12	0	20.05	1
		12	6	20.1	1
		12	13	20.03	1
		25	0	20.02	1
	нсн	1	0	21.23	0
		1	12	21.19	0
		1	24	21.18	0
		12	0	20.14	1
		12	6	20.12	1
		12	13	20.08	1
		25	0	20.07	1
		1	0	19.93	1
		1	12	19.89	1
		1	24	19.96	1
	LCH	12	0	19.46	2
10011		12	6	19.45	2
16QAM		12	13	19.37	2
		25	0	18.78	2
		1	0	20.43	1
	MCH	1	12	20.41	1
		1	24	20.35	1

	12	0	19.49	2
	12	6	19.49	2
	12	13	19.41	2
	25	0	18.97	2
	1	0	20.27	1
	1	12	20.25	1
	1	24	20.16	1
нсн	12	0	19.49	2
	12	6	19.48	2
	12	13	19.43	2
	25	0	19.33	2

	Channel Bandwidth: 10 MHz							
Modulation	Channel	RB Conf	figuration	Average Power [dBm]	MPR (dB)			
Woddiadolf	Onamiei	Size	Offset	Average Fower [dbill]	Wil IX (GD)			
		1	0	20.69	0			
		1	24	20.65	0			
		1	49	20.54	0			
	LCH	25	0	19.67	1			
		25	12	19.63	1			
		25	25	19.71	1			
		50	0	19.73	1			
		1	0	21.14	0			
		1	24	21.13	0			
		1	49	21.08	0			
QPSK	MCH	25	0	20.02	1			
		25	12	19.98	1			
		25	25	20.04	1			
		50	0	20.07	1			
		1	0	21.23	0			
		1	24	21.19	0			
		1	49	21.14	0			
	нсн	25	0	20.05	1			
		25	12	20.06	1			
		25	25	20.07	1			
		50	0	20.09	1			
		1	0	20.27	1			
		1	24	20.26	1			
		1	49	20.19	1			
16QAM	LCH	25	0	19.44	2			
		25	12	19.46	2			
		25	25	19.49	2			
		50	0	18.74	2			

		1	0	20.13	1
		1	24	20.12	1
		1	49	20.06	1
	MCH	25	0	19.47	2
		25	12	19.46	2
		25	25	19.41	2
		50	0	19.11	2
		1	0	20.35	1
		1	24	20.31	1
		1	49	20.27	1
	нсн	25	0	19.43	2
		25	12	19.49	2
		25	25	19.46	2
		50	0	19.42	2

		Chann	el Bandwidth: 18	5 MHz	
Modulation	Channel	RB Con	figuration	Avenue Berres (dBes)	MDD (dD)
Modulation	Channel	Size	Offset	Average Power [dBm]	MPR (dB)
		1	0	20.71	0
		1	37	20.68	0
		1	74	20.56	0
	LCH	37	0	19.78	1
		37	18	19.87	1
		37	38	19.83	1
		75	0	19.84	1
		1	0	21.12	0
	мсн	1	37	21.11	0
		1	74	21.06	0
QPSK		37	0	20.06	1
		37	18	20.12	1
		37	38	20.06	1
		75	0	20.11	1
		1	0	21.19	0
		1	37	21.19	0
		1	74	21.16	0
	нсн	37	0	20.22	1
		37	18	20.21	1
		37	38	20.23	1
		75	0	20.21	1
		1	0	20.35	1
		1	37	20.34	1
16QAM	LCH	1	74	20.26	1
		37	0	19.45	2

	37	18	19.47	2
	37	38	19.49	2
	75	0	18.81	2
	1	0	20.16	1
	1	37	20.13	1
	1	74	20.18	1
MCH	37	0	19.41	2
	37	18	19.44	2
	37	38	19.42	2
	75	0	19.09	2
	1	0	20.45	1
	1	37	20.44	1
	1	74	20.47	1
нсн	37	0	19.33	2
	37	18	19.47	2
	37	38	19.47	2
	75	0	19.15	2

Channel Bandwidth: 20 MHz						
Modulation	Channel	RB Conf	figuration	Average Power [dBm]	MPR (dB)	
Modulation	Channel	Size	Offset	Average Fower [dbm]	MFR (db)	
		1	0	21.13	0	
		1	49	20.78	0	
		1	99	20.67	0	
	LCH	50	0	20.17	1	
		50	25	20.08	1	
		50	50	19.79	1	
		100	0	19.81	1	
		1	0	21.24	0	
	мсн	1	49	21.16	0	
		1	99	21.12	0	
QPSK		50	0	20.42	1	
		50	25	20.06	1	
		50	50	20.07	1	
		100	0	20.25	1	
		1	0	21.19	0	
		1	49	21.16	0	
		1	99	21.08	0	
Н	HCH	50	0	20.13	1	
		50	25	20.1	1	
		50	50	20.08	1	
		100	0	20.1	1	
16QAM	LCH	1	0	20.11	1	

		1	49	20.21	1
		1	99	20.09	1
		50	0	19.47	2
		50	25	19.44	2
		50	50	19.41	2
		100	0	18.85	2
		1	0	20.29	1
		1	49	20.26	1
		1	99	20.18	1
	MCH	50	0	19.44	2
		50	25	19.43	2
		50	50	19.45	2
		100	0	19.06	2
		1	0	20.48	1
		1	49	20.45	1
		1	99	20.44	1
	нсн	50	0	19.47	2
		50	25	19.46	2
		50	50	19.42	2
		100	0	19.39	2

FDD-LTE Band 4:

	Channel Bandwidth: 1.4 MHz						
Modulation	Channel	RB Conf	iguration	Average Power [dBm]	MPR (dB)		
Wodulation	Offariner	Size	Offset	Average Fower [ubin]	Wii IX (db)		
		1	0	20.97	0		
		1	3	20.87	0		
		1	5	20.81	0		
	LCH	3	0	20.37	0		
		3	2	20.35	0		
		3	3	20.33	0		
		6	0	20.12	1		
0001		1	0	21.02	0		
QPSK		1	3	20.98	0		
		1	5	20.89	0		
	MCH	3	0	20.46	0		
		3	2	20.44	0		
	3	3	20.42	0			
	6	0	20.14	1			
1		1	0	20.34	0		
	HCH	1	3	20.32	0		

		1	5	20.23	0
		3	0	20.29	0
		3	2	20.23	0
		3	3	20.18	0
		6	0	19.67	1
		1	0	20.06	1
		1	3	19.98	1
		1	5	19.93	1
	LCH	3	0	19.64	1
		3	2	19.65	1
		3	3	19.57	1
		6	0	18.97	2
		1	0	20.07	1
		1	3	20.06	1
		1	5	20.03	1
16QAM	MCH	3	0	19.76	1
		3	2	19.74	1
		3	3	19.54	1
		6	0	19.06	2
		1	0	19.37	1
		1	3	19.34	1
		1	5	19.32	1
	нсн	3	0	19.15	1
		3	2	19.16	1
		3	3	19.14	1
		6	0	19.14	2
	•				

	Channel Bandwidth: 3 MHz						
Modulation	Channel	RB Conf	figuration	Average Power [dBm]	MPR (dB)		
Woddiation	Chamie	Size	Offset	Average Fower [ubin]	Wil IX (GD)		
		1	0	20.42	0		
		1	7	20.37	0		
		1	14	20.31	0		
	LCH	8	0	19.89	1		
		8	4	19.81	1		
		8	7	19.83	1		
QPSK		15	0	19.78	1		
		1	0	21.09	0		
		1	7	21.06	0		
		1	14	21.03	0		
	MCH	8	0	20.03	1		
		8	4	20.06	1		
		8	7	20.12	1		

		15	0	20.13	1
		1	0	20.49	0
		1	7	20.43	0
		1	14	20.23	0
	нсн	8	0	20.12	1
		8	4	20.21	1
		8	7	20.26	1
		15	0	20.31	1
		1	0	20.27	1
		1	7	20.23	1
		1	14	20.31	1
	LCH	8	0	19.47	2
		8	4	19.42	2
		8	7	19.48	2
		15	0	19.14	2
		1	0	20.03	1
		1	7	20.16	1
		1	14	20.08	1
16QAM	MCH	8	0	19.44	2
		8	4	19.41	2
		8	7	19.42	2
		15	0	18.93	2
		1	0	20.17	1
		1	7	20.32	1
		1	14	20.21	1
	HCH	8	0	19.45	2
		8	4	19.48	2
		8	7	19.48	2
		15	0	19.32	2

Channel Bandwidth: 5 MHz						
Modulation	Channel	RB Conf	figuration	Average Power [dBm]	MPR (dB)	
Woddiation	Chamie	Size	Offset	Average rower (ubin)	WII IX (GD)	
		1	0	20.57	0	
		1	12	20.54	0	
		1	24	20.49	0	
	LCH	12	0	19.47	1	
OBSI		12	6	19.37	1	
QPSK		12	13	19.41	1	
		25	0	19.37	1	
		1	0	21.06	0	
	MCH	1	12	21.03	0	
		1	24	20.97	0	

		12	0	19.97	1
		12	6	20.03	1
		12	13	19.94	1
		25	0	19.98	1
		1	0	20.43	0
		1	12	20.54	0
		1	24	20.65	0
	HCH	12	0	19.58	1
		12	6	19.61	1
		12	13	19.58	1
		25	0	19.67	1
		1	0	20.14	1
		1	12	20.23	1
		1	24	20.12	1
	LCH	12	0	19.44	2
		12	6	19.41	2
		12	13	19.42	2
		25	0	19.05	2
		1	0	20.23	1
		1	12	20.16	1
		1	24	20.17	1
16QAM	MCH	12	0	19.46	2
		12	6	19.48	2
		12	13	19.43	2
		25	0	19.03	2
		1	0	20.21	1
		1	12	20.32	1
		1	24	20.16	1
	нсн	12	0	19.35	2
		12	6	19.38	2
		12	13	19.21	2
		25	0	18.91	2

		Chann	el Bandwidth: 1	0 MHz	
Madulation	Channel	RB Conf	figuration	Average Proves (dPm)	MPD (4D)
Modulation	Channel	Size	Offset	Average Power [dBm]	MPR (dB)
		1	0	20.57	0
		1	24	20.54	0
		1	49	20.49	0
	LCH	25	0	19.73	1
		25	12	19.65	1
		25	25	19.64	1
		50	0	19.76	1
		1	0	20.47	0
		1	24	20.43	0
		1	49	20.38	0
QPSK	MCH	25	0	19.37	1
		25	12	19.32	1
		25	25	19.69	1
		50	0	19.96	1
		1	0	20.51	0
		1	24	20.87	0
		1	49	20.79	0
	нсн	25	0	19.66	1
		25	12	19.87	1
		25	25	19.91	1
		50	0	20.24	1
		1	0	20.17	1
		1	24	20.11	1
		1	49	20.16	1
	LCH	25	0	19.44	2
		25	12	19.42	2
		25	25	19.37	2
		50	0	18.96	2
		1	0	20.14	1
		1	24	20.13	1
16QAM		1	49	20.32	1
	мсн	25	0	19.41	2
		25	12	19.42	2
		25	25	19.32	2
		50	0	18.96	2
		1	0	20.41	1
		1	24	20.4	1
	нсн	1	49	20.31	1
		25	0	19.48	2
		25	U	19.48	2

25	12	19.49	2
25	25	19.45	2
50	0	18.83	2

Channel Bandwidth: 15 MHz					
Modulation	Channel	RB Con	figuration	Average Power [dBm]	MPR (dB)
		Size	Offset	, transger one: [ab.ii]	11 (32)
		1	0	20.59	0
		1	37	20.54	0
		1	74	20.43	0
	LCH	37	0	19.56	1
		37	18	19.67	1
		37	38	19.72	1
		75	0	19.67	1
		1	0	20.51	0
		1	37	20.65	0
		1	74	20.45	0
QPSK	MCH	37	0	19.87	1
		37	18	19.93	1
		37	38	19.79	1
		75	0	20.02	1
		1	0	20.57	0
		1	37	20.55	0
		1	74	20.49	0
	нсн	37	0	19.45	1
		37	18	19.49	1
		37	38	19.53	1
		75	0	19.58	1
		1	0	20.21	1
		1	37	20.19	1
		1	74	20.36	1
	LCH	37	0	19.45	2
		37	18	19.48	2
		37	38	19.47	2
		75	0	19.06	2
16QAM		1	0	20.23	1
		1	37	20.31	1
		1	74	20.19	1
	мсн	37	0	19.42	2
		37	18	19.48	2
		37	38	19.33	2
		75	0	19.12	2
	нсн	1	0	20.13	1

1	37	20.26	1
1	74	20.18	1
37	0	19.34	2
37	18	19.42	2
37	38	19.27	2
75	0	18.96	2

Channel Bandwidth: 20 MHz						
Modulation	Channel	RB Conf	iguration	Average Power [dBm]	MPR (dB)	
Modulatori	Onamici	Size	Offset	Average Fower [abin]	mi it (db)	
		1	0	21.37	0	
		1	49	21.15	0	
		1	99	20.97	0	
	LCH	50	0	20.47	1	
		50	25	20.34	1	
		50	50	19.95	1	
		100	0	20.41	1	
		1	0	21.27	0	
		1	49	21.04	0	
		1	99	20.98	0	
QPSK	MCH	50	0	20.41	1	
		50	25	20.21	1	
		50	50	19.92	1	
		100	0	20.16	1	
		1	0	21.14	0	
		1	49	20.91	0	
		1	99	20.93	0	
	HCH	50	0	20.37	1	
		50	25	19.92	1	
		50	50	20.06	1	
		100	0	20.12	1	
		1	0	19.95	1	
		1	49	19.89	1	
		1	99	19.87	1	
	LCH	50	0	19.46	2	
		50	25	19.47	2	
		50	50	19.45	2	
16QAM		100	0	19.47	2	
		1	0	19.81	1	
		1	49	19.77	1	
	мсн	1	99	19.81	1	
		50	0	19.45	2	
		50	25	19.44	2	

		50	50	19.32	2
		100	0	18.79	2
		1	0	20.47	1
		1	49	20.46	1
		1	99	20.41	1
	HCH	50	0	19.35	2
		50	25	19.43	2
		50	50	19.41	2
		100	0	18.89	2

FDD-LTE Band 5:

Channel Bandwidth: 1.4 MHz							
Madulation	Charact	RB Cor	nfiguration	August Burner Libert	MPD (JP)		
Modulation	Channel	Size	Offset	Average Power [dBm]	MPR (dB)		
	1	0	21.81	0			
		1	3	21.76	0		
		1	5	21.73	0		
	LCH	3	0	20.75	0		
		3	2	20.65	0		
		3	3	20.51	0		
		6	0	20.44	1		
Ţ		1	0	21.74	0		
		1	3	21.71	0		
		1	5	21.79	0		
QPSK	MCH	3	0	20.87	0		
		3	2	20.63	0		
		3	3	20.57	0		
		6	0	20.54	1		
1		1	0	21.37	0		
		1	3	21.39	0		
	İ	1	5	21.34	0		
	нсн	3	0	20.61	0		
		3	2	20.62	0		
	ļ	3	3	20.56	0		
	İ	6	0	20.42	1		
		1	0	20.86	1		
	İ	1	3	20.79	1		
		1	5	20.74	1		
	LCH	3	0	20.18	1		
	İ	3	2	20.06	1		
	İ	3	3	19.89	1		
	İ	6	0	19.79	2		
1		1	0	20.62	1		
16QAM		1	3	20.98	1		
		1	5	20.88	1		
	мсн	3	0	20.21	1		
	ļ	3	2	20.16	1		
	ļ	3	3	19.87	1		
	ļ	6	0	19.57	2		
†		1	0	20.52	1		
	нсн	1	3	20.47	1		
	ŀ	1	5	20.36	1		

	3	0	19.98	1
	3	2	19.87	1
	3	3	19.72	1
	6	0	19.34	2

			el Bandwidth: 3 M	Hz	
Modulation	Channel		figuration	Average Power [dBm]	MPR (dB)
		Size	Offset		
		1	0	21.72	0
		1	7	21.65	0
		1	14	21.53	0
	LCH	8	0	20.78	1
		8	4	20.79	1
		8	7	20.67	1
		15	0	20.81	1
		1	0	21.78	0
		1	7	21.63	0
		1	14	21.59	0
QPSK	MCH	8	0	20.73	1
		8	4	20.69	1
		8	7	20.58	1
		15	0	20.74	1
		1	0	21.79	0
		1	7	21.69	0
		1	14	21.74	0
	нсн	8	0	20.77	1
		8	4	20.79	1
		8	7	20.75	1
		15	0	20.81	1
		1	0	20.93	1
		1	7	20.97	1
		1	14	20.87	1
	LCH	8	0	19.95	2
		8	4	19.94	2
		8	7	19.83	2
		15	0	19.96	2
16QAM		1	0	20.87	1
		1	7	20.79	1
		1	14	20.73	1
	мсн	8	0	19.93	2
		8	4	19.96	2
		8	7	19.89	2
		15	0	19.67	2

	1	0	20.94	1
	1	7	20.98	1
	1	14	20.87	1
HCH	8	0	19.84	2
	8	4	19.93	2
	8	7	19.97	2
	15	0	19.91	2

		Chanr	nel Bandwidth: 5	MHz	
Modulation	Channel	RB Con	figuration	Average Power [dBm]	MPR (dB)
Modulation	Channel	Size	Offset	Average Fower [dBIII]	WFK (db)
		1	0	21.76	0
		1	12	21.68	0
		1	24	21.58	0
	LCH	12	0	20.72	1
		12	6	20.68	1
		12	13	20.65	1
		25	0	20.67	1
		1	0	21.79	0
		1	12	21.74	0
		1	24	21.65	0
QPSK	MCH	12	0	20.78	1
		12	6	20.67	1
		12	13	20.63	1
		25	0	20.72	1
		1	0	21.85	0
		1	12	21.87	0
		1	24	21.78	0
	нсн	12	0	20.87	1
		12	6	20.79	1
		12	13	20.74	1
		25	0	20.81	1
		1	0	20.98	1
		1	12	20.87	1
		1	24	20.91	1
	LCH	12	0	19.85	2
		12	6	19.83	2
16QAM		12	13	19.99	2
		25	0	19.72	2
		1	0	20.93	1
		1	12	20.96	1
	MCH	1	24	20.97	1
		12	0	19.54	2

		12	6	19.93	2
		12	13	19.91	2
		25	0	19.67	2
		1	0	20.95	1
		1	12	20.91	1
		1	24	20.89	1
	HCH	12	0	19.95	2
		12	6	19.93	2
		12	13	19.89	2
		25	0	19.79	2

Channel Bandwidth: 10 MHz						
Modulation	Channel	RB Configuration		. Average Power [dBm]	MPR (dB)	
		Size	Offset	, werage router [az]	(02)	
		1	0	21.77	0	
		1	24	21.73	0	
		1	49	21.69	0	
	LCH	25	0	20.72	1	
		25	12	20.65	1	
		25	25	20.71	1	
		50	0	20.69	1	
		1	0	21.84	0	
		1	24	21.94	0	
		1	49	21.73	0	
QPSK	MCH	25	0	20.88	1	
		25	12	20.68	1	
		25	25	20.61	1	
		50	0	20.75	1	
		1	0	21.79	0	
		1	24	21.76	0	
		1	49	21.68	0	
	HCH	25	0	20.76	1	
		25	12	20.56	1	
		25	25	20.67	1	
		50	0	20.75	1	
		1	0	20.91	1	
		1	24	20.94	1	
		1	49	20.96	1	
16QAM	LCH	25	0	19.85	2	
TOQAM		25	12	19.81	2	
		25	25	19.93	2	
		50	0	19.76	2	
	MCH	1	0	20.95	1	

		1	24	20.87	1
		1	49	20.81	1
		25	0	19.93	2
		25	12	19.95	2
		25	25	19.86	2
		50	0	19.76	2
		1	0	20.93	1
		1	24	20.97	1
		1	49	20.87	1
	HCH	25	0	19.86	2
		25	12	19.98	2
		25	25	19.92	2
		50	0	19.81	2

FDD-LTE Band 12:

Channel Bandwidth: 1.4 MHz							
Modulation	Channel	RB Cor	nfiguration	Average Power [dBm]	MPR (dB)		
Modulation	Channel	Size	Offset	Average Fower [dbiii]	WIFK (db)		
		1	0	21.46	0		
		1	3	21.44	0		
		1	5	21.4	0		
	LCH	3	0	20.74	0		
		3	2	20.72	0		
		3	3	20.66	0		
		6	0	20.4	1		
•		1	0	21.43	0		
		1	3	21.38	0		
		1	5	21.44	0		
QPSK	MCH	3	0	20.63	0		
		3	2	20.56	0		
		3	3	20.75	0		
		6	0	20.42	1		
		1	0	21.03	0		
		1	3	21.04	0		
		1	5	21.02	0		
	нсн	3	0	20.78	0		
		3	2	20.61	0		
		3	3	20.53	0		
		6	0	19.97	1		
		1	0	20.54	1		
16QAM	LCH	1	3	20.46	1		
		1	5	20.43	1		
					1		

		3	0	19.85	1
		3	2	19.73	1
		3	3	19.55	1
		6	0	19.46	2
		1	0	20.67	1
		1	3	20.64	1
		1	5	20.56	1
	мсн	3	0	19.87	1
		3	2	19.85	1
		3	3	19.54	1
		6	0	19.22	2
		1	0	20.18	1
		1	3	20.16	1
		1	5	20.01	1
	нсн	3	0	19.66	1
		3	2	19.54	1
		3	3	19.41	1
		6	0	19.01	2

Channel Bandwidth: 3 MHz						
Modulation	Channel	RB Conf	figuration	Average Power [dBm]	MPR (dB)	
Woddiation	Chamilei	Size	Offset	Average r ower [ubin]	Wil IX (GD)	
		1	0	21.39	0	
		1	7	21.31	0	
		1	14	21.23	0	
	LCH	8	0	20.46	1	
		8	4	20.48	1	
		8	7	20.43	1	
		15	0	20.48	1	
		1	0	21.44	0	
	мсн	1 7		21.32	0	
		1		21.25	0	
QPSK		8	0	20.4	1	
		8	4	20.35	1	
		8	7	20.25	1	
		15	0	20.4	1	
		1	0	21.48	0	
		1	7	21.36	0	
		1	1 14		0	
	нсн	8	0	20.47	1	
		8	4	20.47	1	
		8	7	20.44	1	
		15	0	20.49	1	

		1	0	20.72	1
		1	7	20.67	1
		1	14	20.54	1
	LCH	8	0	19.93	2
		8	4	19.92	2
		8	7	19.92	2
		15	0	19.71	2
		1	0	20.53	1
		1	7	20.46	1
	мсн	1	14	20.39	1
16QAM		8	0	19.82	2
		8	4	19.74	2
		8	7	19.58	2
		15	0	19.35	2
		1	0	20.73	1
		1	7	20.66	1
		1	14	20.56	1
	нсн	8	0	19.84	2
		8	4	19.91	2
		8	7	19.85	2
		15	0	19.59	2

Channel Bandwidth: 5 MHz						
Modulation	Channel	RB Con	figuration	Average Power [dBm]	MPR (dB)	
		Size	Offset	Arterage Forter (ability	(02)	
		1	0	21.52	0	
		1	12	21.49	0	
		1	24	21.43	0	
	LCH	12	0	20.49	1	
		12	6	20.45	1	
		12	13	20.43	1	
		25	0	20.41	1	
	мсн	1	0	21.44	0	
QPSK		1	12	21.35	0	
QPSK		1	24	21.29	0	
		12	0	20.44	1	
		12	6	20.4	1	
		12	13	20.35	1	
		25	0	20.35	1	
		1	0	21.43	0	
	нсн	1	12	21.37	0	
	HCH	1	24	21.33	0	
	1	12	0	20.35	1	

		12	6	20.27	1
		12	13	20.22	1
		25	0	20.27	1
		1	0	20.72	1
		1	12	20.66	1
		1	24	20.6	1
	LCH	12	0	19.83	2
		12	6	19.87	2
		12	13	19.94	2
		25	0	19.81	2
		1	0	20.71	1
		1	12	20.65	1
		1	24	20.51	1
16QAM	MCH	12	0	19.83	2
		12	6	19.72	2
		12	13	19.75	2
		25	0	19.51	2
		1	0	20.83	1
		1	12	20.75	1
		1	24	20.67	1
	HCH	12	0	19.75	2
		12	6	19.84	2
		12	13	19.75	2
		25	0	19.64	2

	Channel Bandwidth: 10 MHz						
Modulation	Channel	RB Conf	iguration	Average Power [dBm]	MPR (dB)		
Woddiadon	Onamie	Size	Offset	Average rower [dbill]	WII IX (GD)		
		1	0	21.62	0		
		1	24	21.52	0		
		1	49	21.43	0		
	LCH	25	0	20.87	1		
		25	12	20.61	1		
		25	25	20.56	1		
		50	0	20.68	1		
QPSK		1	0	21.49	0		
		1	24	21.46	0		
		1	49	21.36	0		
	MCH	25	0	20.71	1		
		25	12	20.34	1		
		25	25	20.31	1		
		50	0	20.36	1		
	нсн	1	0	21.61	0		

				T	
		1	24	21.43	0
		1	49	21.42	0
		25	0	20.62	1
		25	12	20.34	1
		25	25	20.05	1
		50	0	20.36	1
		1	0	20.66	1
		1	24	20.59	1
		1	49	20.5	1
	LCH	25	0	19.82	2
		25	12	19.98	2
		25	25	19.97	2
		50	0	19.43	2
		1	0	20.72	1
	мсн	1	24	20.72	1
		1	49	20.64	1
16QAM		25	0	19.85	2
		25	12	19.73	2
		25	25	19.76	2
		50	0	19.47	2
		1	0	20.75	1
		1	24	20.91	1
		1	49	20.89	1
	нсн	25	0	19.94	2
		25	12	19.84	2
		25	25	19.74	2
		50	0	19.43	2

	WLAN(2.4G) - Maximum Average Power							
Test Mode	Data Rate	Channel	Frequency (MHz)	Average Power (dBm)	Tune-up power (dBm)			
		CH 01	2412	11.6	14.0			
802.11b	1Mbps	CH 06	2437	12.16	14.0			
		CH 11	2462	13.51	14.0			
	6Мbps	CH 01	2412	7.83	12.0			
802.11g		CH 06	2437	10.63	12.0			
		CH 11	2462	11.57	12.0			
		CH 01	2412	8.01	12.0			
802.11n (20MHz)	MCS0	CH 06	2437	10.57	12.0			
		CH 11	2462	11.78	12.0			
802.11n (40MHz)		CH 03	2422	10.17	10.5			
	MCS0	CH 06	2437	10.9	10.5			
		CH 09	2452	10.19	10.5			

Bluetooth - Maximum Average Power						
Test Mode	Data Rate	Average Power(dBm)	Tune-up power (dBm)			
GFSK	1Mbps	4.00	4.5			
Pi/4 QDPSK	2Mbps	2.92	4.5			
8DPSK	3Mbps	3.07	4.5			

Bluetooth - Maximum Average Power						
Test Mode	Data Rate	Channel	Frequency (MHz)	Average Power (dBm)	Tune-up power (dBm)	
		CH 00	2402	-6.01	-3.5	
BLE	1Mbps	CH 19	2440	-3.82	-3.5	
		CH 39	2480	-4.01	-3.5	

Then these appropriate gain settings are stored in each device individually. The user has no possibility to change these settings later on, and during manufacturing each device will be individual calibrated. The measurement is done in fully calibrated setup, which is based on the base station simulator. Furthermore, the highest power level is verified afterwards measurement on three channels (low, middle and high)