

APP A Conducted Power

1. GSM Conducted Power

GSM 850MHz		Burst-Averaged Power (dBm)			Tune-up Limit (dBm)	Division Factors	Frame-Averaged Power (dBm)		
		128CH	190CH	251CH			128CH	190CH	251CH
GPRS /EDGE (GMSK)	1 Tx Slot	32.45	32.76	32.73	33.00	-9.19	23.26	23.57	23.54
	2 Tx Slots	31.17	31.42	31.49	32.00	-6.13	25.04	25.29	25.36
	3 Tx Slots	30.03	30.30	30.45	30.50	-4.42	25.61	25.88	26.03
	4 Tx Slots	27.78	27.98	28.22	29.00	-3.18	24.6	24.8	25.04
EDGE (8PSK)	1 Tx Slot	26.02	25.81	26.04	26.50	-9.19	16.83	16.62	16.85
	2 Tx Slots	25.8	25.71	25.97	26.00	-6.13	19.67	19.58	19.84
	3 Tx Slots	24.61	24.49	24.79	25.00	-4.42	20.19	20.07	20.37
	4 Tx Slots	23.36	23.23	23.51	24.00	-3.18	20.18	20.05	20.33

Note:

- 1) Frame-averaged output power was calculated from the measured burst-averaged output power by converting the slot powers into linear units and calculating the energy over 8 timeslots.
- 2) As per KDB941225 D01v03, SAR test reduction for GPRS and EDGE modes is determined by the source-based time-averaged output power specified for production units, including tune-up tolerance. The data mode with highest specified time-averaged output power should be selected to perform SAR evaluation in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be selected.

GSM 1900MHz		Burst-Averaged Power (dBm)			Tune-up Limit (dBm)	Division Factors	Frame-Averaged Power (dBm)		
		512CH	661CH	810CH			512CH	661CH	810CH
GPRS /EDGE (GMSK)	1 Tx Slot	29.19	29.25	29.19	29.50	-9.19	20.00	20.06	20.00
	2 Tx Slots	27.96	28.04	26.29	28.50	-6.13	21.83	21.91	20.16
	3 Tx Slots	26.79	26.83	28.45	28.50	-4.42	22.37	22.41	24.03
	4 Tx Slots	24.78	25.08	25.16	25.50	-3.18	21.60	21.90	21.98
EDGE (8PSK)	1 Tx Slot	25.05	24.93	25.03	25.50	-9.19	15.86	15.74	15.84
	2 Tx Slots	23.74	23.83	23.93	24.00	-6.13	17.61	17.70	17.80
	3 Tx Slots	22.51	22.69	22.83	23.00	-4.42	18.09	18.27	18.41
	4 Tx Slots	21.30	21.47	21.55	22.00	-3.18	18.12	18.29	18.37

Note:

- 3) Frame-averaged output power was calculated from the measured burst-averaged output power by converting the slot powers into linear units and calculating the energy over 8 timeslots.
- 4) As per KDB941225 D01v03, SAR test reduction for GPRS and EDGE modes is determined by the source-based time-averaged output power specified for production units, including tune-up tolerance. The data mode with highest specified time-averaged output power should be selected to perform SAR evaluation in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be selected.

2. WCDMA Conducted Power

UMTS 1900MHz (Band II)		Average Power (dBm)			Tune-up Limit (dBm)
		9262CH	9400CH	9538CH	
WCDMA	12.2kbps RMC	21.62	21.75	21.65	22.00
	64kbps RMC	21.7	21.74	21.64	22.00
	144kbps RMC	20.81	20.79	20.71	22.00
	384kbps RMC	21.54	21.52	21.43	22.00
HSDPA	Subtest 1	20.68	20.76	20.62	21.00
	Subtest 2	20.31	20.3	20.19	20.50
	Subtest 3	20.19	20.25	20.13	20.50
	Subtest 4	20.22	20.27	20.13	20.50
HSUPA	Subtest 1	20.43	20.72	20.5	21.00
	Subtest 2	19.19	19.21	19.02	20.00
	Subtest 3	19.64	19.72	19.62	20.00
	Subtest 4	18.56	18.66	18.56	19.00
	Subtest 5	20.72	20.74	20.61	21.00

UMTS 1700MHz (Band IV)		Average Power (dBm)			Tune-up Limit (dBm)
		1312CH	1413CH	1513CH	
WCDMA	12.2kbps RMC	22.62	22.99	22.98	23.00
	64kbps RMC	22.61	22.95	22.97	23.00
	144kbps RMC	22.57	22.91	22.91	23.00
	384kbps RMC	22.54	22.90	22.88	23.00
HSDPA	Subtest 1	21.59	21.97	21.97	22.00
	Subtest 2	21.12	21.47	21.48	21.50
	Subtest 3	21.11	21.47	21.46	21.50
	Subtest 4	21.09	21.47	21.46	21.50
HSUPA	Subtest 1	21.42	21.79	21.79	22.00
	Subtest 2	20.18	20.51	20.49	21.00
	Subtest 3	20.70	20.95	20.91	21.00
	Subtest 4	19.59	19.91	20.00	20.50
	Subtest 5	21.68	22.00	22.04	20.50

UMTS 850MHz (Band V)		Average Power (dBm)			Tune-up Limit (dBm)
		4132CH	4182CH	4233CH	
WCDMA	12.2kbps RMC	23.58	23.89	24.01	24.50
	64kbps RMC	23.57	23.87	24.00	24.00
	144kbps RMC	23.51	23.82	23.98	24.00
	384kbps RMC	23.49	23.78	23.97	24.00
HSDPA	Subtest 1	22.54	22.84	22.99	23.00
	Subtest 2	22.05	22.35	22.52	23.00
	Subtest 3	22.05	22.36	22.52	23.00
	Subtest 4	22.05	22.35	22.53	23.00
HSUPA	Subtest 1	22.32	22.63	22.73	23.00
	Subtest 2	20.96	21.43	21.54	22.00
	Subtest 3	21.62	21.85	22.05	22.50
	Subtest 4	20.38	20.83	20.92	21.00
	Subtest 5	22.47	22.78	23.09	23.60

3. LTE Conducted Power

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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune-up (dBm)
				18607	18900	19193	
1.4MHz	QPSK	1	0	21.51	21.66	21.36	22.00
		1	2	21.58	21.67	21.39	
		1	5	21.59	21.71	21.40	
		3	0	21.62	21.79	21.52	22.00
		3	1	21.64	21.82	21.46	
		3	3	21.55	21.80	21.36	
	16QAM	6	0	20.58	20.74	20.41	21.00
		1	0	20.64	20.80	20.45	21.00
		1	2	20.44	20.79	20.30	
		1	5	20.59	20.58	20.38	
		3	0	20.56	20.75	20.43	21.00
		3	1	20.52	20.69	20.36	
		3	3	20.45	20.62	20.28	
		6	0	19.66	19.84	19.35	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune-up (dBm)
				18615	18900	19185	
3MHz	QPSK	1	0	21.81	21.84	21.46	22.00
		1	8	21.86	21.79	21.46	
		1	14	21.86	21.78	21.45	
		8	0	20.76	20.86	20.53	21.00
		8	4	20.76	20.84	20.55	
		8	7	20.79	20.83	20.46	
	16QAM	15	0	20.82	20.84	20.54	21.00
		1	0	20.71	20.69	20.64	21.00
		1	8	20.72	20.69	20.62	
		1	14	20.71	20.66	20.56	
		8	0	19.88	19.94	19.69	20.00
		8	4	19.89	19.94	19.70	
		8	7	19.87	19.90	19.59	
		15	0	19.85	19.84	19.66	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune-up (dBm)
				18625	18900	19175	
5MHz	QPSK	1	0	21.83	21.91	21.66	22.00
		1	12	21.90	21.89	21.63	
		1	24	21.92	21.84	21.57	
		12	0	20.83	20.87	20.67	21.00

		12	6	20.85	20.91	20.66	
		12	13	20.83	20.85	20.52	
		25	0	20.83	20.87	20.64	
	16QAM	1	0	20.84	21.08	20.70	21.50
		1	12	20.93	21.13	20.65	
		1	24	20.90	21.05	20.54	
		12	0	19.97	20.08	19.75	20.00
		12	6	19.96	20.08	19.81	
		12	13	19.94	20.04	19.66	
		25	0	19.95	19.98	19.72	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune-up (dBm)
				18650	18900	19150	
10MHz	QPSK	1	0	21.95	22.12	21.86	22.50
		1	24	21.81	21.78	21.66	
		1	49	22.06	22.07	21.55	
		25	0	20.93	20.99	20.83	21.00
		25	12	20.90	20.97	20.81	
		25	25	20.92	20.95	20.63	
		50	0	20.87	20.96	20.70	21.00
	16QAM	1	0	21.16	21.33	20.77	21.50
		1	24	20.92	21.01	20.58	
		1	49	21.16	21.19	20.48	
		25	0	20.00	20.02	19.91	20.50
		25	12	19.98	20.04	19.87	
		25	25	19.93	20.07	19.78	
		50	0	20.01	20.10	19.85	20.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune-up (dBm)
				18675	18900	19125	
15MHz	QPSK	1	0	21.84	21.90	21.88	22.00
		1	38	21.84	21.72	21.69	
		1	74	21.92	21.75	21.57	
		38	0	21.03	21.19	20.79	21.50
		38	18	20.96	21.05	20.51	
		38	37	20.97	21.05	20.44	
		75	0	20.90	20.90	20.74	21.00
	16QAM	1	0	21.01	21.19	20.73	21.50
		1	38	20.96	21.02	20.56	
		1	74	21.02	21.09	20.41	
		38	0	21.03	21.20	20.73	21.50
		38	18	20.97	21.04	20.54	
		38	37	21.00	21.09	20.43	
		75	0	19.98	20.03	19.83	20.50

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune-up (dBm)
				18700	18900	19100	
20MHz	QPSK	1	0	22.06	22.28	21.95	22.50
		1	49	21.90	21.88	21.80	
		1	99	22.03	22.12	21.58	
		50	0	20.99	21.04	20.88	21.50
		50	25	20.98	21.08	20.91	
		50	50	20.94	20.97	20.75	
		100	0	20.94	21.00	20.86	21.00
	16QAM	1	0	21.14	21.29	21.17	21.50
		1	49	20.88	20.92	20.97	
		1	99	21.03	21.15	20.86	
		50	0	20.02	20.18	19.95	20.50
		50	25	20.07	20.14	19.96	
		50	50	19.99	20.18	19.86	
		100	0	20.01	20.10	19.89	20.50

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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune-up (dBm)
				19957	20175	20393	
1.4MHz	QPSK	1	0	21.58	21.89	21.78	22.00
		1	2	21.55	21.97	21.82	
		1	5	21.52	21.97	21.75	
		3	0	21.64	21.88	21.80	22.00
		3	1	21.74	21.88	21.81	
		3	3	21.67	21.86	21.79	
		6	0	20.62	20.86	20.80	21.00
	16QAM	1	0	20.64	20.81	20.82	21.00
		1	2	20.68	20.92	20.85	
		1	5	20.61	20.82	20.79	
		3	0	21.57	20.82	20.71	22.00
		3	1	20.55	20.81	20.76	
		3	3	20.50	20.81	20.75	
		6	0	19.72	19.82	19.89	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune-up (dBm)
				19965	20175	20385	
3MHz	QPSK	1	0	21.67	21.96	21.90	22.00
		1	8	21.69	21.98	21.92	
		1	14	21.68	21.98	21.94	
		8	0	20.73	20.97	20.85	21.00
		8	4	20.72	20.98	20.85	
		8	7	20.71	20.96	20.83	
		15	0	20.76	20.98	20.88	21.00
	16QAM	1	0	20.83	21.09	20.88	21.50
		1	8	20.86	21.08	20.83	
		1	14	20.84	21.11	20.82	
		8	0	19.82	20.05	19.91	20.50
		8	4	19.82	20.04	19.93	
		8	7	19.82	20.05	19.91	
		15	0	19.83	20.06	19.88	20.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune-up (dBm)
				19975	20175	20375	
5MHz	QPSK	1	0	21.76	21.99	21.99	22.50
		1	12	21.80	22.04	21.98	
		1	24	21.69	22.05	21.92	
		12	0	20.76	20.94	20.94	21.00
		12	6	20.77	20.94	20.94	

		12	13	20.71	20.99	20.89	21.00
		25	0	20.78	20.97	20.93	
	16QAM	1	0	20.85	21.18	20.98	21.50
		1	12	20.85	21.20	21.01	
		1	24	20.84	21.16	20.96	
		12	0	19.81	20.10	20.02	20.50
		12	6	19.81	20.04	20.02	
		12	13	19.75	20.09	19.98	
		25	0	19.84	19.99	20.00	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune-up (dBm)
				20000	20175	20350	
10MHz	QPSK	1	0	21.74	21.97	22.00	22.50
		1	24	21.63	22.00	21.86	
		1	49	21.66	22.11	21.88	
		25	0	20.78	21.04	21.00	21.50
		25	12	20.79	20.97	21.02	
		25	25	20.79	21.04	20.97	
		50	0	20.73	20.99	20.97	21.00
	16QAM	1	0	20.91	20.97	20.85	21.50
		1	24	20.82	20.91	20.79	
		1	49	20.91	21.01	20.79	
		25	0	19.82	20.05	20.10	20.50
		25	12	19.82	20.01	20.11	
		25	25	19.81	20.11	20.05	
		50	0	19.87	20.06	20.02	20.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune-up (dBm)
				20025	20175	20325	
15MHz	QPSK	1	0	21.77	21.90	22.10	22.50
		1	38	21.63	21.91	22.03	
		1	74	21.99	22.00	22.02	
		38	0	20.92	21.14	21.03	21.50
		38	18	20.85	21.17	20.89	
		38	37	21.11	21.25	20.93	
		75	0	20.85	20.96	20.93	21.00
	16QAM	1	0	20.93	21.12	20.99	21.50
		1	38	20.81	21.17	20.87	
		1	74	21.08	21.24	20.90	
		38	0	20.99	21.14	21.00	21.50
		38	18	20.86	21.15	20.87	
		38	37	21.13	21.26	20.91	
		75	0	19.93	20.11	20.05	20.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	

				20050	20175	20300	Tune-up (dBm)
20MHz	QPSK	1	0	21.69	21.98	22.07	22.50
		1	49	21.69	22.01	22.04	
		1	99	22.04	22.08	21.97	
		50	0	20.72	21.02	21.06	21.50
		50	25	20.75	21.03	21.06	
		50	50	20.88	21.07	21.06	
		100	0	20.86	21.06	21.05	21.50
	16QAM	1	0	20.78	21.15	21.02	21.50
		1	49	20.70	21.19	20.99	
		1	99	21.04	21.32	20.93	
		50	0	19.80	20.07	20.16	20.50
		50	25	19.80	20.07	20.18	
		50	50	19.97	20.14	20.16	
		100	0	19.96	20.10	20.13	20.50

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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune-up (dBm)
				20407	20525	20643	
1.4MHz	QPSK	1	0	22.42	22.79	22.71	23.00
		1	2	22.44	22.82	22.80	
		1	5	22.39	22.81	22.71	
		3	0	22.41	22.72	22.79	23.00
		3	1	22.45	22.69	22.81	
		3	3	22.38	22.70	22.75	
		6	0	21.43	21.75	21.82	22.00
	16QAM	1	0	21.24	21.61	21.60	22.50
		1	2	21.36	21.71	21.68	
		1	5	22.41	21.67	21.55	
		3	0	21.37	21.70	21.67	22.00
		3	1	21.40	21.68	21.66	
		3	3	21.33	21.70	21.58	
		6	0	20.48	20.62	20.87	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune-up (dBm)
				20415	20525	20635	
3MHz	QPSK	1	0	22.45	22.81	22.88	23.00
		1	8	22.46	22.82	22.80	
		1	14	22.45	22.88	22.80	
		8	0	21.47	21.79	21.91	22.00
		8	4	21.47	21.82	21.87	
		8	7	21.47	21.79	21.89	
		15	0	21.54	21.85	21.91	22.00
	16QAM	1	0	21.54	21.76	21.71	22.00
		1	8	21.59	21.74	21.68	
		1	14	21.58	21.72	21.71	
		8	0	20.56	20.81	20.94	21.00
		8	4	20.58	20.84	20.94	
		8	7	20.62	20.86	20.90	
		15	0	20.61	20.82	20.86	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune-up (dBm)
				20425	20525	20625	
5MHz	QPSK	1	0	22.57	22.82	22.99	23.00
		1	12	22.65	22.90	22.99	
		1	24	22.61	22.82	22.85	

		12	0	21.56	21.84	21.91	22.00
		12	6	21.56	21.84	21.93	
		12	13	21.59	21.85	21.88	
		25	0	21.58	21.82	21.91	22.00
	16QAM	1	0	21.55	21.93	21.96	22.50
		1	12	21.65	22.02	21.94	
		1	24	21.65	22.01	21.87	
		12	0	20.60	20.98	20.99	21.00
		12	6	20.60	20.94	21.00	
		12	13	20.69	20.95	20.94	
		25	0	20.69	20.87	20.99	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune-up (dBm)
				20450	20525	20600	
10MHz	QPSK	1	0	22.57	22.77	22.81	23.00
		1	24	22.58	22.87	22.86	
		1	49	22.77	22.84	22.84	
		25	0	21.59	21.85	21.88	22.00
		25	12	21.65	21.85	21.90	
		25	25	21.78	21.89	21.95	
		50	0	21.74	21.83	21.86	22.00
	16QAM	1	0	21.68	21.69	21.70	22.00
		1	24	21.71	21.74	21.76	
		1	49	21.89	21.79	21.68	
		25	0	20.69	20.92	20.95	21.50
		25	12	20.67	20.93	20.96	
		25	25	20.84	20.97	21.04	
		50	0	20.84	20.95	20.92	21.00

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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune-up (dBm)
				20775	21100	21425	
5MHz	QPSK	1	0	21.50	21.48	21.30	22.00
		1	12	21.54	21.53	21.40	
		1	24	21.52	21.50	21.29	
		12	0	20.45	20.45	21.35	21.50
		12	6	20.48	20.42	20.35	
		12	13	20.46	20.47	20.34	
		25	0	20.47	20.46	20.37	20.50
	16QAM	1	0	20.45	20.45	20.34	21.00
		1	12	20.56	20.51	20.41	
		1	24	20.53	20.46	20.38	
		12	0	19.51	19.47	19.54	20.00
		12	6	19.52	19.47	19.47	
		12	13	19.56	19.47	19.41	
		25	0	19.57	19.50	19.49	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune-up (dBm)
				20800	21100	21400	
10MHz	QPSK	1	0	21.38	21.53	21.38	22.00
		1	24	21.45	21.53	21.40	
		1	49	21.45	21.52	21.40	
		25	0	20.56	20.51	20.50	21.00
		25	12	20.52	20.50	20.52	
		25	25	20.58	20.54	20.48	
		50	0	20.56	20.48	20.47	21.00
	16QAM	1	0	20.53	20.39	20.48	21.00
		1	24	20.60	20.39	20.53	
		1	49	20.60	20.36	20.53	
		25	0	19.62	19.59	19.56	20.00
		25	12	19.62	19.59	19.56	
		25	25	19.61	19.61	19.55	
		50	0	19.64	19.61	19.57	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune-up (dBm)
				20825	21100	21375	
15MHz	QPSK	1	0	21.35	21.44	21.28	21.50
		1	38	21.49	21.42	21.41	
		1	74	21.39	21.35	21.36	

		38	0	20.50	20.59	20.17	21.00
		38	18	20.64	20.65	20.20	
		38	37	20.53	20.64	20.22	
		75	0	20.47	20.52	20.36	21.00
	16QAM	1	0	20.48	20.58	20.15	21.00
		1	38	20.60	20.63	20.22	
		1	74	20.55	20.65	20.19	
		38	0	20.54	20.59	20.18	21.00
		38	18	20.59	20.67	20.23	
		38	37	20.51	20.64	20.19	
		75	0	19.55	19.60	19.44	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune-up (dBm)
				20850	21100	21350	
20MHz	QPSK	1	0	21.38	21.53	21.38	22.00
		1	49	21.52	21.55	21.53	
		1	99	21.59	21.49	21.46	
		50	0	20.50	20.49	20.44	21.00
		50	25	20.53	20.53	20.45	
		50	50	20.62	20.53	20.51	
		100	0	20.59	20.48	20.50	21.00
	16QAM	1	0	20.41	20.63	20.40	21.00
		1	49	20.51	20.73	20.48	
		1	99	20.59	20.75	20.48	
		50	0	19.59	19.60	19.57	20.00
		50	25	19.59	19.56	19.56	
		50	50	19.74	19.60	19.55	
		100	0	19.69	19.59	19.62	20.00

LTE B12

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune-up (dBm)
				23017	23095	23173	
1.4MHz	QPSK	1	0	23.07	23.36	23.60	24.00
		1	2	23.05	23.33	23.52	
		1	5	23.04	23.28	23.50	
		3	0	22.96	23.34	23.54	24.00
		3	1	23.06	23.22	23.59	
		3	3	22.98	23.30	23.49	
		6	0	21.93	22.30	22.49	22.50
	16QAM	1	0	22.22	22.49	22.86	23.00
		1	2	22.31	22.58	22.96	
		1	5	22.25	22.55	22.84	
		3	0	22.19	22.49	22.52	23.00
		3	1	22.22	22.52	22.66	
		3	3	22.15	22.46	22.57	
		6	0	20.98	21.35	21.46	21.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune-up (dBm)
				23025	23095	23165	
3MHz	QPSK	1	0	22.40	22.56	22.70	23.00
		1	8	22.36	22.61	22.66	
		1	14	22.39	22.66	22.72	
		8	0	21.41	21.52	21.73	22.00
		8	4	21.42	21.55	21.78	
		8	7	21.35	21.58	21.77	
		15	0	21.43	21.61	21.71	22.00
	16QAM	1	0	21.49	21.45	21.54	22.00
		1	8	21.49	21.48	21.57	
		1	14	21.50	21.52	21.55	
		8	0	20.54	20.59	20.82	21.00
		8	4	20.51	20.66	20.82	
		8	7	20.49	20.65	20.75	
		15	0	20.54	20.60	20.74	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune-up (dBm)
				23035	23095	23155	
5MHz	QPSK	1	0	22.44	22.53	22.60	23.00
		1	12	22.42	22.57	22.78	
		1	24	22.56	22.56	22.77	
		12	0	21.42	21.58	21.65	22.00
		12	6	21.40	21.57	21.64	

		12	13	21.53	21.59	21.73	
		25	0	21.49	21.52	21.63	22.00
	16QAM	1	0	21.46	21.63	21.58	22.00
		1	12	21.53	21.73	21.77	
		1	24	21.63	21.70	21.69	
		12	0	20.49	20.68	20.76	21.00
		12	6	20.47	20.67	20.75	
		12	13	20.57	20.69	20.88	
		25	0	20.64	20.63	20.75	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune-up (dBm)
				23060	23095	23130	
10MHz	QPSK	1	0	22.38	22.39	22.48	23.00
		1	24	22.49	22.58	22.57	
		1	49	22.54	22.61	22.69	
		25	0	21.56	21.53	21.61	22.00
		25	12	21.57	21.57	21.63	
		25	25	21.60	21.60	21.63	
		50	0	21.61	21.62	21.65	22.00
	16QAM	1	0	21.49	21.38	21.33	22.00
		1	24	21.60	21.50	21.41	
		1	49	21.69	21.54	21.55	
		25	0	20.65	20.66	20.74	21.00
		25	12	20.64	20.68	20.73	
		25	25	20.69	20.74	20.78	
		50	0	20.71	20.73	20.76	21.00

LTE B13

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune-up (dBm)
				23205	23230	23255	
5MHz	QPSK	1	0	22.61	22.70	22.69	23.00
		1	12	22.73	22.83	22.69	
		1	24	22.83	22.83	22.66	
		12	0	21.77	21.88	21.77	22.00
		12	6	21.78	21.88	21.80	
		12	13	21.89	21.87	21.78	
		25	0	21.78	21.86	21.75	22.00
	16QAM	1	0	21.92	21.92	21.96	22.50
		1	12	21.93	22.11	22.03	
		1	24	22.15	22.21	22.04	
		12	0	20.88	20.99	20.90	21.50
		12	6	20.82	21.06	20.86	
		12	13	20.93	21.08	20.85	
		25	0	20.82	20.98	20.86	21.00
Bandwidth	Modulation	RB size	RB offset	Channel			Tune-up (dBm)
				23230			
10MHz	QPSK	1	0	22.02			22.50
		1	24	22.07			
		1	49	22.08			
		25	0	21.21			21.50
		25	12	21.22			
		25	25	21.15			
		50	0	21.19			21.50
	16QAM	1	0	21.15			21.50
		1	24	21.22			
		1	49	21.17			
		25	0	20.26			20.50
		25	12	20.25			
		25	25	20.22			
		50	0	20.26			20.50

LTE B17

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune-up (dBm)
				23755	23790	23825	
5MHz	QPSK	1	0	22.49	22.51	22.53	23.00
		1	12	22.56	22.59	22.69	
		1	24	22.52	22.64	22.62	
		12	0	21.47	21.48	21.54	22.00
		12	6	21.52	21.53	21.54	
		12	13	21.52	21.51	21.66	
		25	0	21.51	21.52	21.57	22.00
	16QAM	1	0	22.47	21.52	21.66	22.50
		1	12	21.57	21.58	21.84	
		1	24	21.54	21.65	21.73	
		12	0	20.60	20.56	20.70	21.00
		12	6	20.63	20.52	20.69	
		12	13	20.61	20.61	20.77	
		25	0	20.63	20.62	20.60	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune-up (dBm)
				23780	23790	23800	
10MHz	QPSK	1	0	22.48	22.48	22.43	23.00
		1	24	22.47	22.55	22.48	
		1	49	22.67	22.71	22.66	
		25	0	21.55	21.56	21.54	22.00
		25	12	21.57	21.53	21.54	
		25	25	21.58	21.59	21.59	
		50	0	21.55	21.55	21.53	22.00
	16QAM	1	0	21.54	21.40	21.31	22.00
		1	24	21.57	21.37	21.33	
		1	49	21.78	21.53	21.47	
		25	0	20.59	20.62	20.65	21.00
		25	12	20.59	20.61	20.67	
		25	25	20.67	20.69	20.72	
		50	0	20.62	20.63	20.65	21.00

LTE B25

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune-up (dBm)
				26047	26365	26683	
1.4MHz	QPSK	1	0	21.09	21.17	20.95	21.50
		1	2	21.20	21.21	21.01	
		1	5	21.14	21.17	20.90	
		3	0	21.20	21.25	20.89	21.50
		3	1	21.35	21.29	20.97	
		3	3	21.20	21.13	20.86	
		6	0	20.17	20.16	20.02	20.50
	16QAM	1	0	20.50	20.49	20.28	21.00
		1	2	20.61	20.61	20.37	
		1	5	20.54	20.47	20.24	
		3	0	20.43	20.43	19.86	21.00
		3	1	20.45	20.51	20.02	
		3	3	20.38	20.45	19.94	
		6	0	19.30	19.26	18.97	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune-up (dBm)
				26055	26365	26675	
3MHz	QPSK	1	0	21.08	21.20	21.06	21.50
		1	8	21.16	21.23	21.06	
		1	14	21.16	21.20	21.02	
		8	0	20.20	20.31	20.01	20.50
		8	4	20.22	20.36	20.03	
		8	7	20.17	20.28	19.97	
		15	0	20.24	20.28	19.98	20.50
	16QAM	1	0	20.50	20.72	20.33	21.00
		1	8	20.59	20.80	20.26	
		1	14	20.52	20.74	20.23	
		8	0	19.44	19.43	19.04	20.00
		8	4	19.46	19.43	19.05	
		8	7	19.38	19.39	18.97	
		15	0	19.37	19.42	19.03	19.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune-up (dBm)
				26065	26365	26665	
5MHz	QPSK	1	0	21.10	21.18	20.93	21.50
		1	12	21.17	21.21	20.88	
		1	24	21.12	21.16	20.95	
		12	0	20.26	20.25	20.07	20.50
		12	6	20.28	20.36	20.08	

		12	13	20.30	20.31	20.03	20.50
		25	0	20.30	20.33	20.04	
	16QAM	1	0	20.58	20.69	20.39	21.00
		1	12	20.62	20.67	20.30	
		1	24	20.59	20.67	20.27	
		12	0	19.44	19.49	19.24	20.00
		12	6	19.44	19.45	19.21	
		12	13	19.43	19.38	19.13	
		25	0	19.37	19.47	19.11	19.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune-up (dBm)
				26090	26365	26640	
10MHz	QPSK	1	0	21.24	21.32	21.09	21.50
		1	24	21.25	21.21	20.85	
		1	49	21.30	21.22	20.83	
		25	0	20.28	20.19	20.11	20.50
		25	12	20.32	20.23	20.12	
		25	25	20.27	20.16	20.02	
		50	0	20.24	20.22	20.10	20.50
	16QAM	1	0	20.67	20.72	20.61	21.00
		1	24	20.63	20.67	20.37	
		1	49	20.63	20.63	20.23	
		25	0	19.39	19.28	19.26	20.00
		25	12	19.39	19.37	19.11	
		25	25	19.33	19.31	19.09	
		50	0	19.39	19.33	19.18	19.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune-up (dBm)
				26115	26365	26615	
15MHz	QPSK	1	0	21.10	21.16	21.31	21.50
		1	38	21.10	21.23	21.13	
		1	74	21.18	21.10	20.92	
		38	0	20.22	20.12	20.15	20.50
		38	18	20.27	20.15	20.08	
		38	37	20.23	20.15	19.91	
		75	0	20.22	20.10	19.99	20.50
	16QAM	1	0	20.50	20.62	20.41	21.00
		1	38	20.56	20.65	20.37	
		1	74	20.46	20.51	20.11	
		38	0	19.28	19.21	19.18	19.50
		38	18	19.40	19.27	19.12	
		38	37	19.31	19.23	19.04	
		75	0	19.32	19.25	19.10	19.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	

				26140	26365	26590	Tune-up (dBm)
20MHz	QPSK	1	0	21.04	21.15	21.20	21.50
		1	49	21.09	21.15	21.02	
		1	99	21.05	21.21	20.78	
		50	0	20.26	20.14	20.25	20.50
		50	25	20.30	20.31	20.23	
		50	50	20.26	20.16	20.10	
		100	0	20.22	20.27	20.04	20.50
	16QAM	1	0	20.41	20.59	20.58	21.00
		1	49	20.44	20.49	20.53	
		1	99	20.47	20.51	20.25	
		50	0	19.36	19.20	19.30	19.50
		50	25	19.34	19.34	19.31	
		50	50	19.26	19.25	19.09	
		100	0	19.30	19.26	19.13	19.50

LTE B26

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune-up (dBm)
				26697	26865	27033	
1.4MHz	QPSK	1	0	22.41	22.52	22.99	23.50
		1	2	22.45	22.53	22.99	
		1	5	22.34	22.51	22.93	
		3	0	22.46	22.52	22.98	23.50
		3	1	22.51	22.59	23.03	
		3	3	22.39	22.49	22.94	
		6	0	21.41	21.41	21.97	22.00
	16QAM	1	0	21.48	21.80	21.95	22.50
		1	2	21.56	21.90	22.02	
		1	5	21.47	21.81	21.96	
		3	0	21.45	21.67	21.97	22.50
		3	1	21.50	21.73	22.06	
		3	3	21.37	21.70	21.94	
		6	0	20.41	20.53	20.92	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune-up (dBm)
				26705	26865	27025	
3MHz	QPSK	1	0	22.47	22.50	23.01	23.50
		1	8	22.44	22.48	22.96	
		1	14	22.39	22.49	22.93	
		8	0	21.45	21.47	21.94	23.00
		8	4	21.50	21.58	21.96	
		8	7	21.44	22.56	21.94	
		15	0	21.47	22.47	21.99	22.00
	16QAM	1	0	21.62	21.86	22.32	22.50
		1	8	21.58	21.90	22.30	
		1	14	21.57	21.88	22.30	
		8	0	20.46	20.64	21.10	21.50
		8	4	20.52	20.70	21.19	
		8	7	20.45	20.68	21.08	
		15	0	20.53	20.61	21.05	21.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune-up (dBm)
				26715	26865	27015	
5MHz	QPSK	1	0	22.39	22.42	22.98	23.00
		1	12	22.39	22.47	22.91	
		1	24	22.52	22.47	22.95	
		12	0	21.52	21.49	22.00	22.50
		12	6	21.52	21.53	22.03	

		12	13	21.57	21.51	21.97	
		25	0	21.62	21.57	21.99	22.00
	16QAM	1	0	21.61	21.87	22.34	22.50
		1	12	21.57	21.81	22.31	
		1	24	21.72	21.96	22.27	
		12	0	20.68	20.66	21.09	21.50
		12	6	20.67	20.73	21.09	
		12	13	20.72	20.72	21.03	
		25	0	20.67	20.63	21.09	21.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune-up (dBm)
				26740	26865	26900	
10MHz	QPSK	1	0	22.48	22.36	22.98	23.50
		1	24	22.51	22.50	23.05	
		1	49	22.51	22.68	22.99	
		25	0	21.63	21.51	21.95	22.00
		25	12	21.60	21.55	21.94	
		25	25	21.61	21.58	22.00	
		50	0	21.63	21.58	21.97	22.00
	16QAM	1	0	21.69	21.75	22.37	22.50
		1	24	21.70	21.88	22.39	
		1	49	21.75	22.09	22.28	
		25	0	20.72	20.65	21.03	21.50
		25	12	20.70	20.70	21.10	
		25	25	20.68	20.74	21.14	
		50	0	20.73	20.70	21.04	21.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune-up (dBm)
				26765	26865	26965	
15MHz	QPSK	1	0	22.56	22.48	22.84	23.00
		1	38	22.66	22.72	22.99	
		1	74	22.76	22.92	22.97	
		38	0	21.68	21.73	21.81	22.00
		38	18	21.65	21.74	21.95	
		38	37	21.79	21.78	21.93	
		75	0	21.65	21.79	21.96	22.00
	16QAM	1	0	21.57	21.90	22.18	22.50
		1	38	21.64	22.11	22.33	
		1	74	21.78	22.24	22.34	
		38	0	20.77	20.80	20.90	21.50
		38	18	20.79	20.88	21.04	
		38	37	20.86	20.86	21.01	
		75	0	20.76	20.85	21.07	21.50

LTE B38

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune-up (dBm)
				37775	38000	38225	
5MHz	QPSK	1	0	22.29	22.28	22.26	22.50
		1	12	22.30	22.31	22.30	
		1	24	22.30	22.30	22.23	
		12	0	21.33	21.35	21.32	21.50
		12	6	21.41	21.41	21.36	
		12	13	21.38	21.34	21.26	
		25	0	21.36	21.41	21.37	21.50
	16QAM	1	0	21.46	21.32	21.28	21.50
		1	12	21.49	21.34	21.25	
		1	24	21.49	21.32	21.28	
		12	0	20.46	20.44	20.43	21.00
		12	6	20.47	20.43	20.48	
		12	13	20.52	20.45	20.42	
		25	0	20.42	20.48	20.40	20.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune-up (dBm)
				37800	38000	38200	
10MHz	QPSK	1	0	22.27	22.35	22.28	22.50
		1	24	22.35	22.36	22.29	
		1	49	22.29	22.38	22.30	
		25	0	21.35	21.43	21.36	21.50
		25	12	21.36	21.47	21.40	
		25	25	21.37	21.42	21.34	
		50	0	21.32	21.42	21.35	21.50
	16QAM	1	0	21.29	21.36	21.31	21.50
		1	24	21.30	21.38	21.32	
		1	49	21.32	21.37	21.34	
		25	0	20.40	20.49	20.45	21.00
		25	12	20.43	20.54	20.48	
		25	25	20.45	20.50	20.43	
		50	0	20.40	20.51	20.44	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune-up (dBm)
				37825	38000	38175	
15MHz	QPSK	1	0	22.23	22.28	22.32	22.50
		1	38	22.30	22.37	22.34	

		1	74	22.26	22.32	22.32	21.50
		38	0	21.23	21.32	21.30	
		38	18	21.29	21.36	21.31	
		38	37	21.26	21.34	21.30	
		75	0	21.27	21.32	21.29	21.50
	16QAM	1	0	21.29	21.32	21.31	21.50
		1	38	21.32	21.39	21.38	
		1	74	21.28	21.35	21.30	
		38	0	20.31	20.38	20.34	20.50
		38	18	20.36	20.45	20.44	
		38	37	20.36	20.42	20.41	
		75	0	20.39	20.43	20.42	20.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune-up (dBm)
				37850	38000	38150	
20MHz	QPSK	1	0	22.05	22.20	22.15	22.50
		1	49	22.19	22.33	22.24	
		1	99	22.14	22.27	22.27	
		50	0	21.19	21.35	21.27	21.50
		50	25	21.24	21.47	21.37	
		50	50	21.24	21.36	21.33	
		100	0	21.21	21.36	21.30	21.50
	16QAM	1	0	21.16	21.30	21.26	21.50
		1	49	21.22	21.39	21.34	
		1	99	21.25	21.38	21.36	
		50	0	20.25	20.42	20.35	20.50
		50	25	20.31	20.44	20.44	
		50	50	20.31	20.42	20.40	
		100	0	20.28	20.39	20.38	20.50

LTE B40

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune-up (dBm)
				38675	39150	39625	
5MHz	QPSK	1	0	18.68	19.33	19.27	20.00
		1	12	19.74	19.39	19.34	
		1	24	19.65	19.31	19.25	
		12	0	18.69	18.36	18.20	19.00
		12	6	18.68	18.35	18.22	
		12	13	18.70	18.39	18.27	
		25	0	18.64	18.35	18.26	19.00
	16QAM	1	0	18.70	18.48	18.25	19.00
		1	12	18.75	18.53	18.33	
		1	24	18.66	18.50	18.23	
		12	0	17.74	17.49	17.31	18.00
		12	6	17.74	17.48	17.36	
		12	13	17.70	17.45	17.36	
		25	0	17.71	17.43	17.37	18.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune-up (dBm)
				38700	39150	39600	
10MHz	QPSK	1	0	19.44	19.34	19.26	19.50
		1	24	19.41	19.38	19.27	
		1	49	19.37	19.31	19.26	
		25	0	18.52	18.37	18.34	19.00
		25	12	18.53	18.37	18.35	
		25	25	18.50	18.37	18.33	
		50	0	18.55	18.37	18.35	19.00
	16QAM	1	0	18.55	18.27	18.10	19.00
		1	24	18.51	18.29	18.14	
		1	49	18.53	18.22	18.14	
		25	0	17.57	17.45	17.43	18.00
		25	12	17.57	17.45	17.43	
		25	25	17.52	17.44	17.41	
		50	0	17.54	17.45	17.43	18.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune-up (dBm)
				38725	39150	39575	
15MHz	QPSK	1	0	21.61	21.76	21.68	22.00
		1	38	21.63	21.81	21.72	
		1	74	21.53	21.71	21.69	
		38	0	20.66	20.81	20.69	21.00
		38	18	20.72	20.83	20.73	
		38	37	20.65	20.80	20.72	

	16QAM	75	0	20.68	20.80	20.70	21.00
		1	0	21.03	21.09	20.99	21.50
		1	38	21.02	21.13	21.06	
		1	74	20.90	21.06	20.93	
		38	0	19.77	19.90	19.80	20.00
		38	18	19.83	19.94	19.83	
		38	37	19.74	19.91	19.82	
		75	0	19.81	19.92	19.78	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune-up (dBm)
				38750	39150	39550	
20MHz	QPSK	1	0	21.52	21.64	21.71	22.00
		1	49	21.53	21.67	21.68	
		1	99	21.52	21.72	21.64	
		50	0	20.74	20.78	20.79	21.00
		50	25	20.71	20.83	20.83	
		50	50	20.68	20.83	20.72	
		100	0	20.72	20.84	20.74	21.00
	16QAM	1	0	21.04	21.11	21.14	21.50
		1	49	21.03	21.10	21.07	
		1	99	20.99	21.17	21.00	
		50	0	19.78	19.87	19.78	20.00
		50	25	19.80	19.90	19.82	
		50	50	19.76	19.82	19.79	
		100	0	19.81	19.83	19.76	20.00

LTE B41

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune-up (dBm)
				39675	40620	41565	
5MHz	QPSK	1	0	21.39	21.66	21.55	22.00
		1	12	21.42	21.71	21.66	
		1	24	21.32	21.65	21.62	
		12	0	20.30	20.68	20.61	21.00
		12	6	20.34	20.70	20.62	
		12	13	20.35	20.67	20.62	
		25	0	20.32	20.64	20.60	21.00
	16QAM	1	0	21.22	20.65	20.57	21.50
		1	12	20.38	20.73	20.66	
		1	24	20.36	20.68	20.62	
		12	0	19.34	19.70	19.64	20.00
		12	6	19.40	19.69	19.64	
		12	13	19.44	19.71	19.64	
		25	0	19.41	19.72	19.67	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune-up (dBm)
				39700	40620	41540	
10MHz	QPSK	1	0	21.47	21.72	22.29	22.50
		1	24	21.52	21.75	21.74	
		1	49	21.55	21.80	22.32	
		25	0	20.60	20.80	21.02	21.50
		25	12	20.60	20.79	21.03	
		25	25	20.59	20.79	21.01	
		50	0	20.60	20.76	21.05	21.50
	16QAM	1	0	20.56	20.68	21.43	21.50
		1	24	20.57	20.68	20.76	
		1	49	20.62	20.71	21.43	
		25	0	19.59	19.90	20.06	20.50
		25	12	19.57	19.90	20.02	
		25	25	19.64	19.91	20.01	
		50	0	19.65	19.87	20.10	20.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune-up (dBm)
				39725	40620	41515	
15MHz	QPSK	1	0	21.44	21.77	21.48	22.00
		1	38	21.52	21.8	21.65	
		1	74	21.51	21.81	21.51	
		38	0	20.53	20.89	20.69	21.00
		38	18	20.64	20.94	20.91	
		38	37	20.62	20.95	20.81	

	16QAM	75	0	20.51	20.86	20.74	21.00
		1	0	20.54	20.87	20.71	21.00
		1	38	20.59	20.96	20.91	
		1	74	20.63	20.94	20.78	
		38	0	20.53	20.87	20.72	21.00
		38	18	20.63	20.92	20.84	
		38	37	20.62	20.93	20.78	
		75	0	19.59	19.93	19.83	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune-up (dBm)
				39750	40620	41490	
20MHz	QPSK	1	0	21.42	21.56	22.74	23.00
		1	49	21.56	21.72	21.76	
		1	99	21.56	21.71	21.83	
		50	0	20.48	20.73	20.85	21.00
		50	25	20.51	20.74	20.81	
		50	50	20.57	20.81	20.76	
		100	0	20.52	20.75	20.83	21.00
	16QAM	1	0	20.38	20.79	21.74	22.00
		1	49	20.53	20.92	20.79	
		1	99	20.52	20.92	20.81	
		50	0	19.56	19.83	19.9	20.00
		50	25	19.56	19.83	19.91	
		50	50	19.65	19.84	19.91	
		100	0	19.6	19.82	19.91	20.00

LTE B66

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune-up (dBm)
				131979	132322	132665	
1.4MHz	QPSK	1	0	21.21	21.40	21.23	22.00
		1	2	21.30	21.47	21.31	
		1	5	21.22	21.38	21.28	
		3	0	21.12	21.42	21.38	22.00
		3	1	21.25	21.43	21.35	
		3	3	21.24	21.34	21.25	
		6	0	21.18	21.47	21.23	22.00
	16QAM	1	0	21.26	21.41	21.19	22.00
		1	2	21.30	21.48	21.24	
		1	5	21.07	21.38	21.14	
		3	0	21.18	21.32	21.27	22.00
		3	1	21.24	21.32	21.23	
		3	3	21.16	21.29	21.25	
		6	0	21.30	21.51	21.38	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune-up (dBm)
				131987	132322	132657	
3MHz	QPSK	1	0	21.04	21.25	21.32	21.50
		1	8	21.17	21.38	21.27	
		1	14	21.05	21.2	21.18	
		8	0	21.18	21.34	21.2	21.50
		8	4	21.17	21.34	21.23	
		8	7	21.17	21.26	21.17	
		15	0	21.19	21.31	21.24	21.50
	16QAM	1	0	21.24	21.36	21.19	21.50
		1	8	21.34	21.47	21.25	
		1	14	21.19	21.3	21.07	
		8	0	21.28	21.4	21.34	21.50
		8	4	21.29	21.4	21.34	
		8	7	21.26	21.42	21.28	
		15	0	21.37	21.41	21.28	21.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune-up (dBm)
				131997	132322	132647	
5MHz	QPSK	1	0	21.12	21.39	21.23	22.00
		1	12	21.31	21.61	21.43	
		1	24	21.11	21.31	21.18	
		12	0	21.15	21.41	21.35	21.50
		12	6	21.15	21.46	21.35	

		12	13	21.11	21.37	21.30	
		25	0	21.13	21.44	21.35	21.50
	16QAM	1	0	21.17	21.43	21.48	22.00
		1	12	21.33	21.60	21.64	
		1	24	21.13	21.37	21.40	
		12	0	21.30	21.51	21.56	22.00
		12	6	21.31	21.48	21.54	
		12	13	21.28	21.45	21.48	
		25	0	21.28	21.47	21.40	21.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune-up (dBm)
				132022	132322	132622	
10MHz	QPSK	1	0	21.17	21.48	21.43	21.50
		1	24	21.11	21.45	21.42	
		1	49	21.16	21.37	21.31	
		25	0	21.19	21.46	21.40	21.50
		25	12	21.17	21.47	21.41	
		25	25	21.19	21.42	21.34	
		50	0	21.17	21.43	21.37	21.50
	16QAM	1	0	21.36	21.61	21.46	22.00
		1	24	21.34	21.59	21.40	
		1	49	21.36	21.52	21.32	
		25	0	21.34	21.54	21.54	22.00
		25	12	21.32	21.55	21.54	
		25	25	21.32	21.50	21.51	
		50	0	21.29	21.52	21.53	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune-up (dBm)
				132047	132322	132597	
15MHz	QPSK	1	0	21.17	21.29	21.32	22.00
		1	38	21.24	21.35	21.48	
		1	74	21.28	21.17	21.25	
		38	0	21.33	21.57	21.23	22.00
		38	18	21.47	21.63	21.37	
		38	37	21.49	21.47	21.12	
		75	0	21.09	21.27	21.23	21.50
	16QAM	1	0	21.31	21.57	21.26	22.00
		1	38	21.44	21.63	21.33	
		1	74	21.44	21.45	21.11	
		38	0	21.33	21.56	21.23	22.00
		38	18	21.45	21.62	21.37	
		38	37	21.49	21.45	21.17	
		75	0	21.21	21.39	21.38	21.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	

				132072	132322	132572	Tune-up (dBm)
20MHz	QPSK	1	0	21.09	21.73	21.11	22.00
		1	49	21.52	21.45	21.48	
		1	99	21.30	21.25	21.24	
		50	0	21.09	21.32	21.16	21.50
		50	25	21.10	21.35	21.18	
		50	50	21.35	21.25	21.30	
		100	0	21.27	21.34	21.15	21.50
	16QAM	1	0	21.20	21.65	21.12	22.00
		1	49	21.34	21.60	21.32	
		1	99	21.51	21.55	21.14	
		50	0	21.22	21.46	21.37	21.50
		50	25	21.19	21.47	21.37	
		50	50	21.47	21.44	21.48	
		100	0	21.40	21.40	21.28	21.50

4. Wi-Fi 2.4GHz

Mode	Data Rate	Ch.#	Freq. (MHz)	Ant 1		Duty Cycle (%)
				Avg. Pwr. (dBm)	Tune-up (dBm)	
802.11b	1Mbps	1	2412	16.56	17.5	97.52
		7	2442	17.15		
		13	2472	16.63		
802.11g	6Mbps	1	2412	16.39	17	/
		7	2442	16.71		
		13	2472	16.38		
802.11n (20M)	HT0	1	2412	13.08	15	/
		7	2442	14.93		
		13	2472	13.90		
802.11n (40M)	HT0	3	2422	17.20	18	/
		7	2442	17.83		
		11	2462	17.43		

5. Wi-Fi 5GHz

Band	Mode Data Rate	BW[MHz]	Channel	Freq[MHz]	Ant 1		Duty Cycle (%)
					Avg Pwr(dBm)	Tune-up (dBm)	
5.2GHz	802.11a 6Mbps	20M	36	5180	Not Required	17.0	/
			40	5200			
			44	5220			
			48	5240			
			52	5260			
			56	5280			
			60	5300			
			64	5320			
	802.11n HT0	20M	36	5180		17.5	
			40	5200			
			44	5220			
			48	5240			
			52	5260			
			56	5280			
			60	5300			
			64	5320			
	802.11ac VHT0	20M	36	5180		17.5	
			40	5200			
			44	5220			
			48	5240			
			52	5260			
			56	5280			
			60	5300			
			64	5320			
	802.11n HT0	40M	38	5190		17.5	
			46	5230			
			54	5270			
			62	5310			
802.11ac VHT0	40M	38	5190	17.63	18.0	87.37	
		46	5230	17.14			
		54	5270	16.41			
		62	5310	15.99			
802.11ac VHT0	80M	42	5210	Not Required	17.5	/	
		58	5290				

Band	Mode Data Rate	BW[MHz]	Channel	Freq[MHz]	Ant 1		Duty Cycle (%)
					Avg Pwr(dBm)	Tune-up (dBm)	
5.6GHz	802.11a 6Mbps	20M	100	5500	Not Required	16.5	/
			104	5520			
			108	5540			
			112	5560			
			116	5580			
			120	5600			
			124	5620			
			128	5640			
			132	5660			
			136	5680			
			140	5700			
			144	5720			
	802.11n HT0	20M	100	5500		16.0	
			104	5520			
			108	5540			
			112	5560			
			116	5580			
			120	5600			
			124	5620			
			128	5640			
			132	5660			
			136	5680			
			140	5700			
			144	5720			
	802.11ac VHT0	20M	100	5500		16.0	
			104	5520			
			108	5540			
			112	5560			
			116	5580			
			120	5600			
			124	5620			
			128	5640			
			132	5660			
			136	5680			
			140	5700			
			144	5720			
802.11n HT0	40M	102	5510	14.58	17.0		
		110	5550	16.54			
		118	5590	16.31			
		126	5630	16.25			

			134	5670	14.33			
			142	5710	13.72			
	802.11ac VHT0	40M	102	5510	14.94	17.0		
			110	5550	16.74			
			118	5590	16.55			
			126	5630	16.38			
			134	5670	14.48			
			142	5710	13.96			
	802.11ac VHT0	80M	106	5530	16.57	17.0		74.55
			122	5610	16.98			
			138	5690	15.72			

Band	Mode Data Rate	BW[MHz]	CH	Freq[MHz]	Ant 1		Duty Cycle (%)
					Avg Pwr(dBm)	Tune-up (dBm)	
5.8G	802.11a 6Mbps	20	149	5745	16.15	16.5	93.02
			153	5765	16.01		
			157	5785	15.07		
			161	5805	15.55		
			165	5825	14.74		
	802.11n20 HT0		149	5745	Not Required	16.0	/
			153	5765			
			157	5785			
			161	5805			
			165	5825			
	802.11ac20 VHT0		149	5745		16.0	
			153	5765			
			157	5785			
			161	5805			
			165	5825			
	802.11n40 HT0	40	151	5755		15.5	
			159	5795		15.5	
	802.11ac40 VHT0		151	5755		15.5	
			159	5795		15.5	
	802.11ac80 VHT0	80	155	5775		16.0	

6. Bluetooth

Mode	Test Mode	Ch.#	Freq. (MHz)	Ant 1		Duty Cycle (%)
				Avg. Pwr. (dBm)	Tune-up (dBm)	
Bluetooth	DH5	0	2402	1	1.5	/
		39	2441	0.77		
		78	2480	1.2		
Bluetooth	3DH5	0	2402	5.78	6	
		39	2441	5.76		
		78	2480	0.7		
BLE	1M	0	2402	5.71	6.5	
		19	2440	5.65		
		39	2480	6.4		
BLE	2M	0	2402	5.74	6.5	33.87
		19	2440	5.69		
		39	2480	6.47		

7. Duty Cycle

Test Mode	On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T Minimum VBW (kHz)	Final setting For VBW (kHz)
802.11b	12.18	12.49	0.9752	97.52	0.11	0.08	0.5
802.11a	2.00	2.15	0.9302	93.02	0.31	0.50	0.5
802.11ac40	0.83	0.95	0.8737	87.37	0.59	1.20	2
802.11ac80	0.41	0.55	0.7455	74.55	1.28	2.44	3
BLE_2M	0.21	0.62	0.3387	33.87	4.70	4.76	5

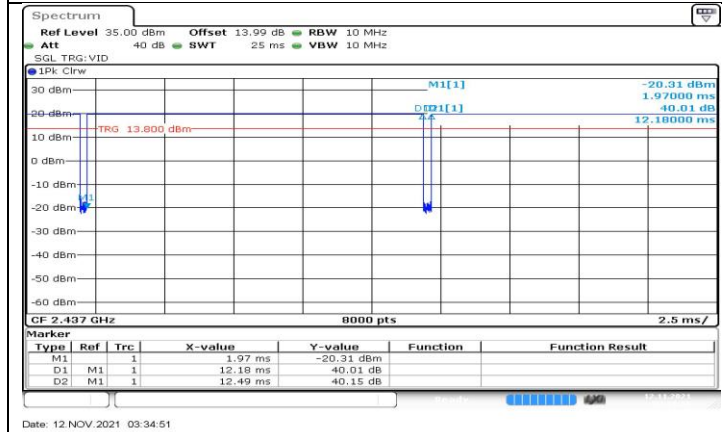
Note:

Duty Cycle Correction Factor=10log (1/x).

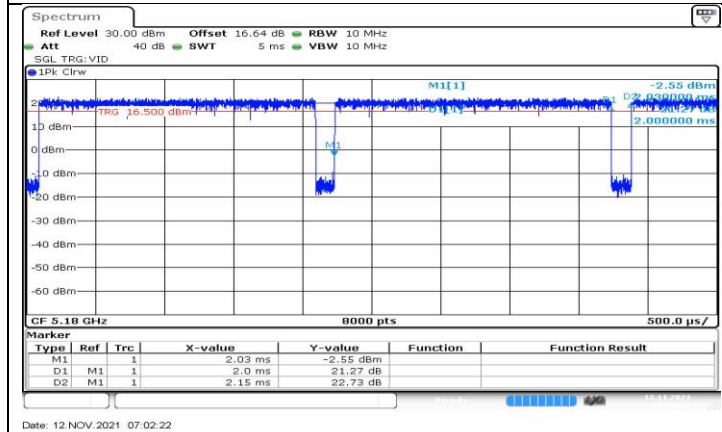
Where: x is Duty Cycle (Linear)

Where: T is On Time

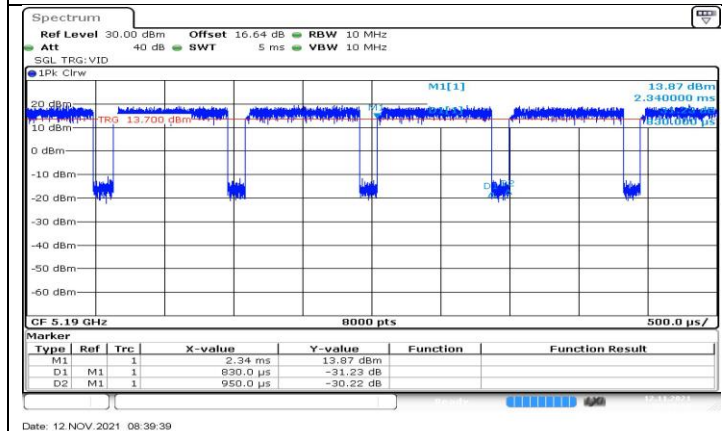
802.11b



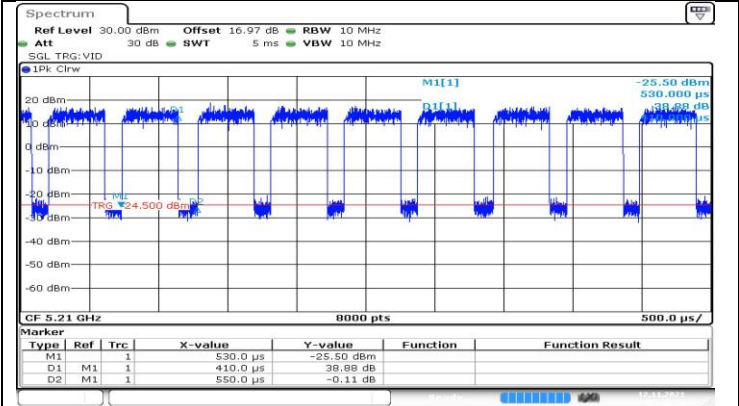
802.11a



802.11ac40



802.11ac80



BLE 2M

