

Emission bandwidth and OBW

Band	Bandwidth(MHz)	UL Frequency(MHz)	Modulation	RB Size	RB Offset	Occupied Bandwidth(MHz)	Emission Bandwidth(MHz)	Limit
Band4	1.4	1710.7	QPSK	6	LOW	1.096	1.283	No limit
Band4	1.4	1710.7	16QAM	6	LOW	1.12	1.325	No limit
Band4	1.4	1732.5	QPSK	6	LOW	1.103	1.308	No limit
Band4	1.4	1732.5	16QAM	6	LOW	1.105	1.308	No limit
Band4	1.4	1754.3	QPSK	6	LOW	1.108	1.298	No limit
Band4	1.4	1754.3	16QAM	6	LOW	1.12	1.509	No limit
Band4	3	1711.5	QPSK	15	LOW	2.711	2.961	No limit
Band4	3	1711.5	16QAM	15	LOW	2.711	2.988	No limit
Band4	3	1732.5	QPSK	15	LOW	2.759	3.033	No limit
Band4	3	1732.5	16QAM	15	LOW	2.732	2.994	No limit
Band4	3	1753.5	QPSK	15	LOW	2.741	3.015	No limit
Band4	3	1753.5	16QAM	15	LOW	2.732	3.027	No limit
Band4	5	1712.5	QPSK	25	LOW	4.598	5.075	No limit
Band4	5	1712.5	16QAM	25	LOW	4.538	5.005	No limit
Band4	5	1732.5	QPSK	25	LOW	4.563	5.1	No limit
Band4	5	1732.5	16QAM	25	LOW	4.608	5.125	No limit
Band4	5	1752.5	QPSK	25	LOW	4.588	5.115	No limit
Band4	5	1752.5	16QAM	25	LOW	4.598	5.115	No limit
Band4	10	1715	QPSK	50	LOW	9.195	10.2	No limit
Band4	10	1715	16QAM	27	LOW	5.217	6.16	No limit
Band4	10	1732.5	QPSK	50	LOW	9.175	10.13	No limit
Band4	10	1732.5	16QAM	27	LOW	5.257	6.12	No limit
Band4	10	1750	QPSK	50	LOW	9.225	10.75	No limit
Band4	10	1750	16QAM	27	LOW	5.307	9.19	No limit
Band4	15	1717.5	QPSK	75	LOW	5.232	6.075	No limit
Band4	15	1717.5	16QAM	27	LOW	5.247	6.105	No limit
Band4	15	1732.5	QPSK	75	LOW	13.568	14.745	No limit
Band4	15	1732.5	16QAM	27	LOW	5.277	6.12	No limit
Band4	15	1747.5	QPSK	75	LOW	13.613	16.875	No limit
Band4	15	1747.5	16QAM	27	LOW	5.322	8.505	No limit
Band4	20	1720	QPSK	100	LOW	18.451	20.34	No limit
Band4	20	1720	16QAM	27	LOW	5.977	7.26	No limit
Band4	20	1732.5	QPSK	100	LOW	18.371	20.38	No limit
Band4	20	1732.5	16QAM	27	LOW	5.977	7.54	No limit
Band4	20	1745	QPSK	100	LOW	18.471	25.4	No limit
Band4	20	1745	16QAM	27	LOW	6.137	11.6	No limit

Band4-1.4-1710.7-QPSK-6#LOW@26dB and 99PCT Bandwidth



Band4-1.4-1710.7-16QAM-6#LOW@26dB and 99PCT Bandwidth



Band4-1.4-1732.5-QPSK-6#LOW@26dB and 99PCT Bandwidth



Band4-1.4-1732.5-16QAM-6#LOW@26dB and 99PCT Bandwidth



Band4-1.4-1754.3-QPSK-6#LOW@26dB and 99PCT Bandwidth



Band4-1.4-1754.3-16QAM-6#LOW@26dB and 99PCT Bandwidth



Band4-3-1711.5-QPSK-15#LOW@26dB and 99PCT Bandwidth



Band4-3-1711.5-16QAM-15#LOW@26dB and 99PCT Bandwidth



Band4-3-1732.5-QPSK-15#LOW@26dB and 99PCT Bandwidth



Band4-3-1732.5-16QAM-15#LOW@26dB and 99PCT Bandwidth



Band4-3-1753.5-QPSK-15#LOW@26dB and 99PCT Bandwidth



Band4-3-1753.5-16QAM-15#LOW@26dB and 99PCT Bandwidth



Band4-5-1712.5-QPSK-25#LOW@26dB and 99PCT Bandwidth



Band4-5-1712.5-16QAM-25#LOW@26dB and 99PCT Bandwidth



Band4-5-1732.5-QPSK-25#LOW@26dB and 99PCT Bandwidth



Band4-5-1732.5-16QAM-25#LOW@26dB and 99PCT Bandwidth



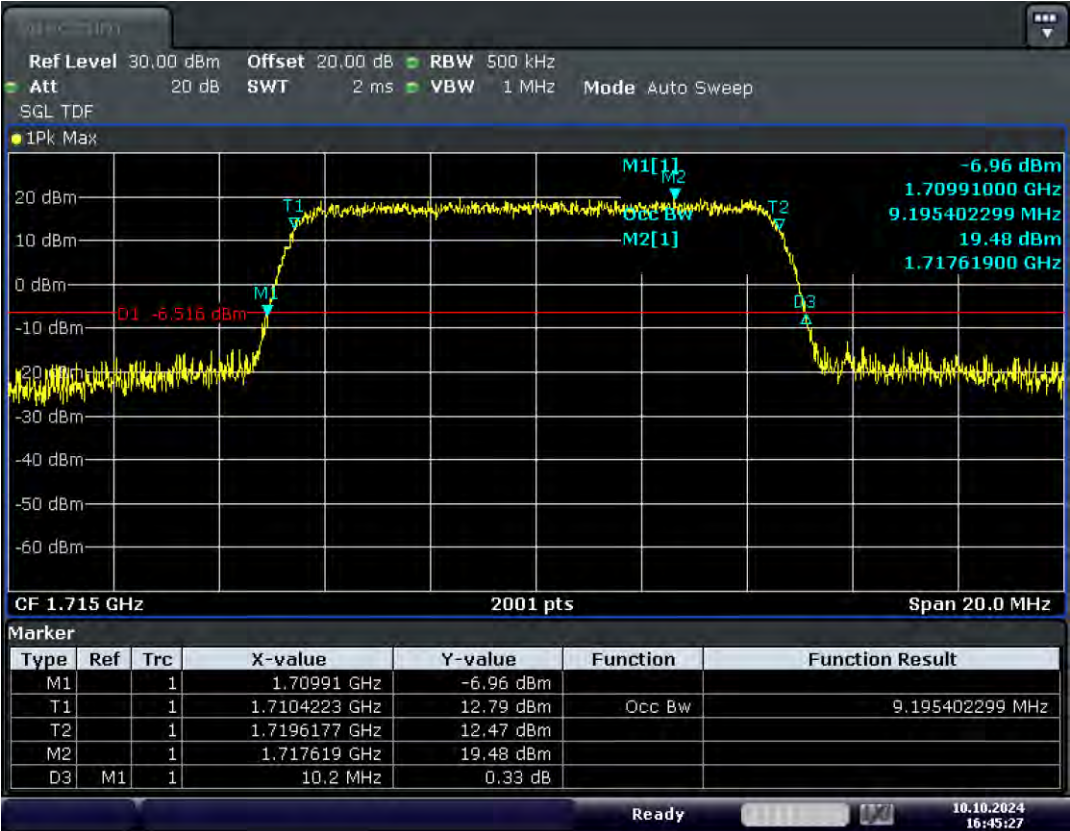
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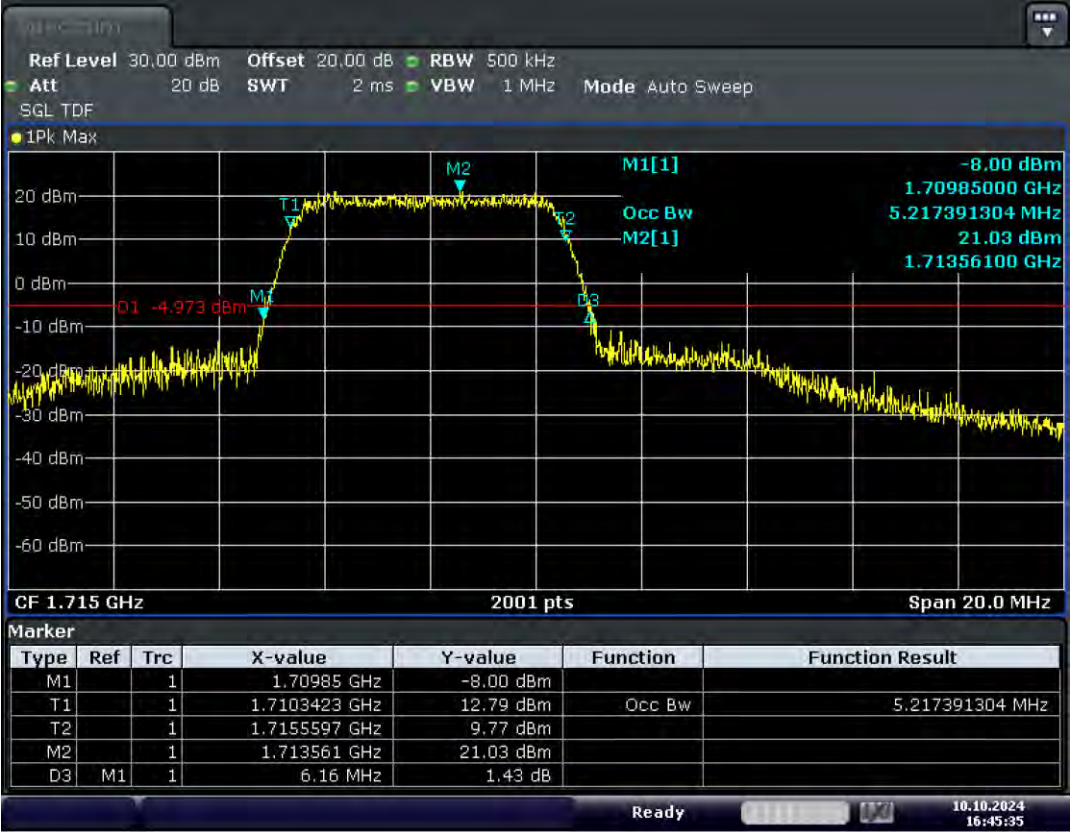
Band4-5-1752.5-16QAM-25#LOW@26dB and 99PCT Bandwidth



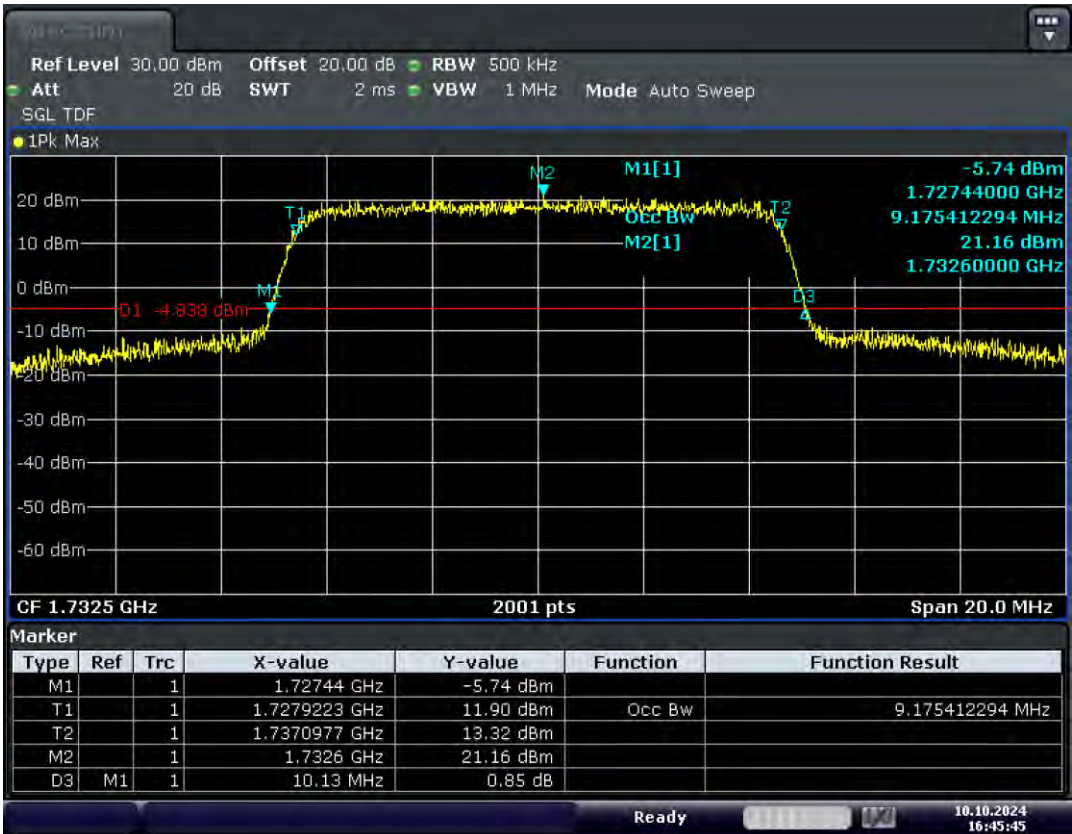
Band4-10-1715-QPSK-50#LOW@26dB and 99PCT Bandwidth



Band4-10-1715-16QAM-27#LOW@26dB and 99PCT Bandwidth



Band4-10-1732.5-QPSK-50#LOW@26dB and 99PCT Bandwidth



Band4-10-1732.5-16QAM-27#LOW@26dB and 99PCT Bandwidth



CF 1.75 GHz

2001 pts

Span 20.0 MHz

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	1.7444 GHz	-9.60 dBm		
T1		1	1.7453623 GHz	12.31 dBm	Occ Bw	9.225387306 MHz
T2		1	1.7545877 GHz	11.48 dBm		
M2		1	1.751149 GHz	19.59 dBm		
D3	M1	1	10.75 MHz	1.84 dB		

Ref Level 30.00 dBm **Offset** 20.00 dB **RBW** 500 kHz
Att 20 dB **SWT** 2 ms **VBW** 1 MHz **Mode** Auto Sweep
SGL TDF
1Pk Max

M1 -5.34 dBm
1.74199000 GHz
Occ Bw
M2 21.05 dBm
1.74824100 GHz

T1 11.47 dBm
T2 9.55 dBm
D3 0.02 dB

CF 1.75 GHz **2001 pts** **Span 20.0 MHz**

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	1.74199 GHz	-5.34 dBm		
T1		1	1.7452824 GHz	11.47 dBm	Occ Bw	5.307346327 MHz
T2		1	1.7505897 GHz	9.55 dBm		
M2		1	1.748241 GHz	21.05 dBm		
D3	M1	1	9.19 MHz	0.02 dB		

Ready

10.10.2024
 16:46:10

Band4-15-1717.5-QPSK-75#LOW@26dB and 99PCT Bandwidth



Band4-15-1717.5-16QAM-27#LOW@26dB and 99PCT Bandwidth



Band4-15-1732.5-QPSK-75#LOW@26dB and 99PCT Bandwidth



Band4-15-1732.5-16QAM-27#LOW@26dB and 99PCT Bandwidth



Band4-15-1747.5-QPSK-75#LOW@26dB and 99PCT Bandwidth



Band4-15-1747.5-16QAM-27#LOW@26dB and 99PCT Bandwidth



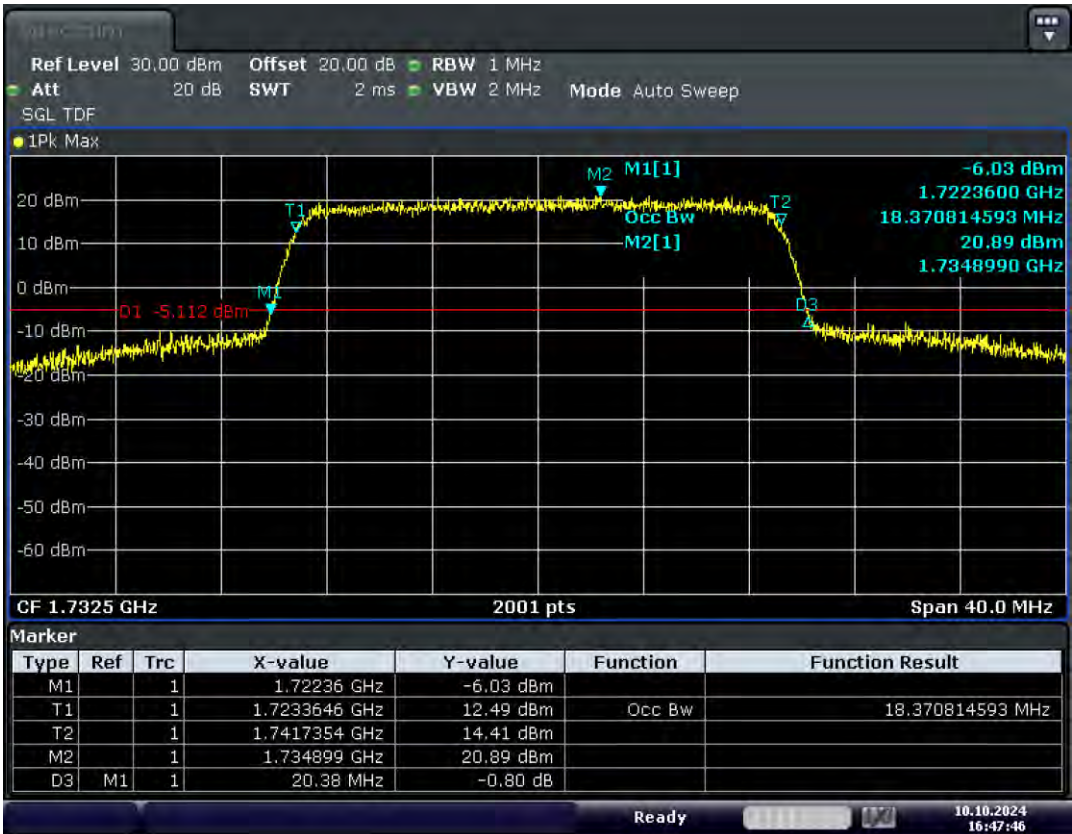
Band4-20-1720-QPSK-100#LOW@26dB and 99PCT Bandwidth



Band4-20-1720-16QAM-27#LOW@26dB and 99PCT Bandwidth



Band4-20-1732.5-QPSK-100#LOW@26dB and 99PCT Bandwidth



Band4-20-1732.5-16QAM-27#LOW@26dB and 99PCT Bandwidth



Band4-20-1745-QPSK-100#LOW@26dB and 99PCT Bandwidth



Band4-20-1745-16QAM-27#LOW@26dB and 99PCT Bandwidth



Frequency Stability

Test Conditions		LTE Band 4(QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 5MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0611	PASS
40	Normal Voltage	0.0372	
30	Normal Voltage	0.0194	
20(Ref.)	Normal Voltage	0.0276	
10	Normal Voltage	0.0611	
0	Normal Voltage	0.0173	
-10	Normal Voltage	0.0440	
-20	Normal Voltage	0.0352	
-30	Normal Voltage	0.0198	
20	Maximum Voltage	0.0167	
20	Normal Voltage	0.0295	
20	Battery End Point	0.0692	

Peak and Average Power

Band	Bandwidth(MHz)	UL Frequency(MHz)	Modulation	RB Size	RB Offset	Average Power	Peak Power	Peak to Average(dB)	limit(dB)	AntGain(dBi)	EIRP(dBm)	Limit(dBm)	Conclusion
Band4	1.4	1710.7	QPSK	6	LOW	21.08	26.59	5.51	13	1.72	22.8	30	Pass
Band4	1.4	1710.7	QPSK	3	LOW	21.52	26.27	4.75	13	1.72	23.24	30	Pass
Band4	1.4	1710.7	QPSK	3	MID	21.81	26.26	4.45	13	1.72	23.53	30	Pass
Band4	1.4	1710.7	QPSK	3	HIGH	21.28	25.7	4.42	13	1.72	23	30	Pass
Band4	1.4	1710.7	QPSK	1	LOW	21.16	25.57	4.41	13	1.72	22.88	30	Pass
Band4	1.4	1710.7	QPSK	1	MID	21.93	26.19	4.26	13	1.72	23.65	30	Pass
Band4	1.4	1710.7	QPSK	1	HIGH	21.78	26.02	4.24	13	1.72	23.5	30	Pass
Band4	1.4	1710.7	16QAM	6	LOW	20.03	26.62	6.59	13	1.72	21.75	30	Pass
Band4	1.4	1710.7	16QAM	3	LOW	20.75	25.67	4.92	13	1.72	22.47	30	Pass
Band4	1.4	1710.7	16QAM	3	MID	20.66	25.88	5.22	13	1.72	22.38	30	Pass
Band4	1.4	1710.7	16QAM	3	HIGH	20.75	26.44	5.69	13	1.72	22.47	30	Pass
Band4	1.4	1710.7	16QAM	1	LOW	20.3	24.6	4.3	13	1.72	22.02	30	Pass
Band4	1.4	1710.7	16QAM	1	MID	20.74	25.87	5.13	13	1.72	22.46	30	Pass
Band4	1.4	1710.7	16QAM	1	HIGH	20.94	25.41	4.47	13	1.72	22.66	30	Pass
Band4	1.4	1732.5	QPSK	6	LOW	20.53	26.88	6.35	13	1.72	22.25	30	Pass
Band4	1.4	1732.5	QPSK	3	LOW	22.44	28.31	5.87	13	1.72	24.16	30	Pass
Band4	1.4	1732.5	QPSK	3	MID	21.85	27.38	5.53	13	1.72	23.57	30	Pass
Band4	1.4	1732.5	QPSK	3	HIGH	21.95	28.08	6.13	13	1.72	23.67	30	Pass
Band4	1.4	1732.5	QPSK	1	LOW	21.5	26.51	5.01	13	1.72	23.22	30	Pass
Band4	1.4	1732.5	QPSK	1	MID	22.56	27.81	5.25	13	1.72	24.28	30	Pass
Band4	1.4	1732.5	QPSK	1	HIGH	21.73	26.92	5.19	13	1.72	23.45	30	Pass
Band4	1.4	1732.5	16QAM	6	LOW	19.75	27.14	7.39	13	1.72	21.47	30	Pass
Band4	1.4	1732.5	16QAM	3	LOW	21.09	28.16	7.07	13	1.72	22.81	30	Pass
Band4	1.4	1732.5	16QAM	3	MID	21.15	27.98	6.83	13	1.72	22.87	30	Pass
Band4	1.4	1732.5	16QAM	3	HIGH	21.56	28.12	6.56	13	1.72	23.28	30	Pass
Band4	1.4	1732.5	16QAM	1	LOW	20.91	26.55	5.64	13	1.72	22.63	30	Pass

Band4	1.4	1732.5	16QA M	1	MID	21.38	26.29	4.91	13	1.72	23.1	30	Pass
Band4	1.4	1732.5	16QA M	1	HIGH	21.23	27.1	5.87	13	1.72	22.95	30	Pass
Band4	1.4	1754.3	QPSK	6	LOW	20.53	26.21	5.68	13	1.72	22.25	30	Pass
Band4	1.4	1754.3	QPSK	3	LOW	21.79	26.62	4.83	13	1.72	23.51	30	Pass
Band4	1.4	1754.3	QPSK	3	MID	21.84	26.82	4.98	13	1.72	23.56	30	Pass
Band4	1.4	1754.3	QPSK	3	HIGH	21.4	26.58	5.18	13	1.72	23.12	30	Pass
Band4	1.4	1754.3	QPSK	1	LOW	21.13	25.96	4.83	13	1.72	22.85	30	Pass
Band4	1.4	1754.3	QPSK	1	MID	21.78	25.79	4.01	13	1.72	23.5	30	Pass
Band4	1.4	1754.3	QPSK	1	HIGH	21.54	25.92	4.38	13	1.72	23.26	30	Pass
Band4	1.4	1754.3	16QA M	6	LOW	19.86	25.93	6.07	13	1.72	21.58	30	Pass
Band4	1.4	1754.3	16QA M	3	LOW	20.63	26.66	6.03	13	1.72	22.35	30	Pass
Band4	1.4	1754.3	16QA M	3	MID	20.52	26.7	6.18	13	1.72	22.24	30	Pass
Band4	1.4	1754.3	16QA M	3	HIGH	20.61	26.67	6.06	13	1.72	22.33	30	Pass
Band4	1.4	1754.3	16QA M	1	LOW	20.77	25.13	4.36	13	1.72	22.49	30	Pass
Band4	1.4	1754.3	16QA M	1	MID	20.48	25.11	4.63	13	1.72	22.2	30	Pass
Band4	1.4	1754.3	16QA M	1	HIGH	20.8	25.5	4.7	13	1.72	22.52	30	Pass
Band4	3	1711.5	QPSK	15	LOW	20.69	26.67	5.98	13	1.72	22.41	30	Pass
Band4	3	1711.5	QPSK	8	LOW	20.39	25.78	5.39	13	1.72	22.11	30	Pass
Band4	3	1711.5	QPSK	8	MID	20.77	26.6	5.83	13	1.72	22.49	30	Pass
Band4	3	1711.5	QPSK	8	HIGH	20.51	26.23	5.72	13	1.72	22.23	30	Pass
Band4	3	1711.5	QPSK	1	LOW	21.76	25.34	3.58	13	1.72	23.48	30	Pass
Band4	3	1711.5	QPSK	1	MID	21.23	25.38	4.15	13	1.72	22.95	30	Pass
Band4	3	1711.5	QPSK	1	HIGH	21.85	25.48	3.63	13	1.72	23.57	30	Pass
Band4	3	1711.5	16QA M	15	LOW	19.75	26.23	6.48	13	1.72	21.47	30	Pass
Band4	3	1711.5	16QA M	15	MID	19.94	26.93	6.99	13	1.72	21.66	30	Pass
Band4	3	1711.5	16QA M	15	HIGH	19.62	26.58	6.96	13	1.72	21.34	30	Pass
Band4	3	1711.5	16QA M	1	LOW	20.54	24.97	4.43	13	1.72	22.26	30	Pass
Band4	3	1711.5	16QA M	1	MID	20.66	24.99	4.33	13	1.72	22.38	30	Pass
Band4	3	1711.5	16QA M	1	HIGH	20.88	25.68	4.8	13	1.72	22.6	30	Pass
Band4	3	1732.5	QPSK	15	LOW	20.93	28.1	7.17	13	1.72	22.65	30	Pass
Band4	3	1732.5	QPSK	8	LOW	20.75	27.53	6.78	13	1.72	22.47	30	Pass
Band4	3	1732.5	QPSK	8	MID	20.79	27.7	6.91	13	1.72	22.51	30	Pass

Band4	3	1732.5	QPSK	8	HIGH	20.7	26.9	6.2	13	1.72	22.42	30	Pass
Band4	3	1732.5	QPSK	1	LOW	21.47	26.07	4.6	13	1.72	23.19	30	Pass
Band4	3	1732.5	QPSK	1	MID	21.56	26.44	4.88	13	1.72	23.28	30	Pass
Band4	3	1732.5	QPSK	1	HIGH	21.79	26.59	4.8	13	1.72	23.51	30	Pass
Band4	3	1732.5	16QA M	15	LOW	20.05	27.43	7.38	13	1.72	21.77	30	Pass
Band4	3	1732.5	16QA M	15	MID	19.89	27.2	7.31	13	1.72	21.61	30	Pass
Band4	3	1732.5	16QA M	15	HIGH	19.52	27.23	7.71	13	1.72	21.24	30	Pass
Band4	3	1732.5	16QA M	1	LOW	21.42	27.27	5.85	13	1.72	23.14	30	Pass
Band4	3	1732.5	16QA M	1	MID	21.53	27.54	6.01	13	1.72	23.25	30	Pass
Band4	3	1732.5	16QA M	1	HIGH	21.52	27.14	5.62	13	1.72	23.24	30	Pass
Band4	3	1753.5	QPSK	15	LOW	20.08	26.06	5.98	13	1.72	21.8	30	Pass
Band4	3	1753.5	QPSK	8	LOW	20.64	26.53	5.89	13	1.72	22.36	30	Pass
Band4	3	1753.5	QPSK	8	MID	20.48	26.39	5.91	13	1.72	22.2	30	Pass
Band4	3	1753.5	QPSK	8	HIGH	20.71	26.87	6.16	13	1.72	22.43	30	Pass
Band4	3	1753.5	QPSK	1	LOW	21.15	25.83	4.68	13	1.72	22.87	30	Pass
Band4	3	1753.5	QPSK	1	MID	21.39	25.64	4.25	13	1.72	23.11	30	Pass
Band4	3	1753.5	QPSK	1	HIGH	21.5	25.8	4.3	13	1.72	23.22	30	Pass
Band4	3	1753.5	16QA M	15	LOW	19.3	26.17	6.87	13	1.72	21.02	30	Pass
Band4	3	1753.5	16QA M	15	MID	19.52	26.75	7.23	13	1.72	21.24	30	Pass
Band4	3	1753.5	16QA M	15	HIGH	19.28	26.37	7.09	13	1.72	21	30	Pass
Band4	3	1753.5	16QA M	1	LOW	20.85	25.43	4.58	13	1.72	22.57	30	Pass
Band4	3	1753.5	16QA M	1	MID	20.31	25.7	5.39	13	1.72	22.03	30	Pass
Band4	3	1753.5	16QA M	1	HIGH	20.64	25.51	4.87	13	1.72	22.36	30	Pass
Band4	5	1712.5	QPSK	25	LOW	20.47	26.99	6.52	13	1.72	22.19	30	Pass
Band4	5	1712.5	QPSK	12	LOW	20.14	26.09	5.95	13	1.72	21.86	30	Pass
Band4	5	1712.5	QPSK	12	MID	20.45	25.84	5.39	13	1.72	22.17	30	Pass
Band4	5	1712.5	QPSK	12	HIGH	20.04	25.74	5.7	13	1.72	21.76	30	Pass
Band4	5	1712.5	QPSK	1	LOW	21.3	25.71	4.41	13	1.72	23.02	30	Pass
Band4	5	1712.5	QPSK	1	MID	21.63	25.32	3.69	13	1.72	23.35	30	Pass
Band4	5	1712.5	QPSK	1	HIGH	21.46	25.82	4.36	13	1.72	23.18	30	Pass
Band4	5	1712.5	16QA M	25	LOW	19.52	26.3	6.78	13	1.72	21.24	30	Pass
Band4	5	1712.5	16QA M	12	LOW	19.7	26.22	6.52	13	1.72	21.42	30	Pass

Band4	5	1712.5	16QA M	12	MID	19.59	25.77	6.18	13	1.72	21.31	30	Pass
Band4	5	1712.5	16QA M	12	HIGH	19.27	25.44	6.17	13	1.72	20.99	30	Pass
Band4	5	1712.5	16QA M	1	LOW	20.47	25.66	5.19	13	1.72	22.19	30	Pass
Band4	5	1712.5	16QA M	1	MID	20.37	25.81	5.44	13	1.72	22.09	30	Pass
Band4	5	1712.5	16QA M	1	HIGH	20.56	25.55	4.99	13	1.72	22.28	30	Pass
Band4	5	1732.5	QPSK	25	LOW	20.39	27.69	7.3	13	1.72	22.11	30	Pass
Band4	5	1732.5	QPSK	12	LOW	20.97	28.08	7.11	13	1.72	22.69	30	Pass
Band4	5	1732.5	QPSK	12	MID	20.45	26.63	6.18	13	1.72	22.17	30	Pass
Band4	5	1732.5	QPSK	12	HIGH	20.87	27.32	6.45	13	1.72	22.59	30	Pass
Band4	5	1732.5	QPSK	1	LOW	21.53	27.86	6.33	13	1.72	23.25	30	Pass
Band4	5	1732.5	QPSK	1	MID	21.86	28.66	6.8	13	1.72	23.58	30	Pass
Band4	5	1732.5	QPSK	1	HIGH	21.54	27.58	6.04	13	1.72	23.26	30	Pass
Band4	5	1732.5	16QA M	25	LOW	19.99	28.39	8.4	13	1.72	21.71	30	Pass
Band4	5	1732.5	16QA M	12	LOW	19.49	27.93	8.44	13	1.72	21.21	30	Pass
Band4	5	1732.5	16QA M	12	MID	19.73	27.71	7.98	13	1.72	21.45	30	Pass
Band4	5	1732.5	16QA M	12	HIGH	19.49	27.09	7.6	13	1.72	21.21	30	Pass
Band4	5	1732.5	16QA M	1	LOW	21.24	27.18	5.94	13	1.72	22.96	30	Pass
Band4	5	1732.5	16QA M	1	MID	20.97	26.89	5.92	13	1.72	22.69	30	Pass
Band4	5	1732.5	16QA M	1	HIGH	21.24	27.06	5.82	13	1.72	22.96	30	Pass
Band4	5	1752.5	QPSK	25	LOW	20.69	27.42	6.73	13	1.72	22.41	30	Pass
Band4	5	1752.5	QPSK	12	LOW	20.83	26.57	5.74	13	1.72	22.55	30	Pass
Band4	5	1752.5	QPSK	12	MID	20.51	26.98	6.47	13	1.72	22.23	30	Pass
Band4	5	1752.5	QPSK	12	HIGH	20.36	26.35	5.99	13	1.72	22.08	30	Pass
Band4	5	1752.5	QPSK	1	LOW	21.22	25.91	4.69	13	1.72	22.94	30	Pass
Band4	5	1752.5	QPSK	1	MID	21.46	25.78	4.32	13	1.72	23.18	30	Pass
Band4	5	1752.5	QPSK	1	HIGH	21.37	25.48	4.11	13	1.72	23.09	30	Pass
Band4	5	1752.5	16QA M	25	LOW	19.21	27.51	8.3	13	1.72	20.93	30	Pass
Band4	5	1752.5	16QA M	12	LOW	19.6	25.84	6.24	13	1.72	21.32	30	Pass
Band4	5	1752.5	16QA M	12	MID	19.5	26.4	6.9	13	1.72	21.22	30	Pass
Band4	5	1752.5	16QA M	12	HIGH	19.07	25.6	6.53	13	1.72	20.79	30	Pass

Band4	5	1752.5	16QA M	1	LOW	20.41	26.49	6.08	13	1.72	22.13	30	Pass
Band4	5	1752.5	16QA M	1	MID	20.43	26.06	5.63	13	1.72	22.15	30	Pass
Band4	5	1752.5	16QA M	1	HIGH	20.38	25.96	5.58	13	1.72	22.1	30	Pass
Band4	10	1715	QPSK	50	LOW	21.03	27.86	6.83	13	1.72	22.75	30	Pass
Band4	10	1715	QPSK	25	LOW	20.79	27.91	7.12	13	1.72	22.51	30	Pass
Band4	10	1715	QPSK	25	MID	21.15	28.64	7.49	13	1.72	22.87	30	Pass
Band4	10	1715	QPSK	25	HIGH	20.81	28.47	7.66	13	1.72	22.53	30	Pass
Band4	10	1715	QPSK	1	LOW	20.78	27.51	6.73	13	1.72	22.5	30	Pass
Band4	10	1715	QPSK	1	MID	21.39	25.98	4.59	13	1.72	23.11	30	Pass
Band4	10	1715	QPSK	1	HIGH	21.33	26.5	5.17	13	1.72	23.05	30	Pass
Band4	10	1715	16QA M	12	LOW	20.86	26.3	5.44	13	1.72	22.58	30	Pass
Band4	10	1715	16QA M	6	LOW	20.54	27.53	6.99	13	1.72	22.26	30	Pass
Band4	10	1715	16QA M	6	MID	21.11	27.88	6.77	13	1.72	22.83	30	Pass
Band4	10	1715	16QA M	6	HIGH	20.68	28.46	7.78	13	1.72	22.4	30	Pass
Band4	10	1715	16QA M	1	LOW	20.67	25.78	5.11	13	1.72	22.39	30	Pass
Band4	10	1715	16QA M	1	MID	20.84	25.95	5.11	13	1.72	22.56	30	Pass
Band4	10	1715	16QA M	1	HIGH	20.89	26.84	5.95	13	1.72	22.61	30	Pass
Band4	10	1732.5	QPSK	50	LOW	20.75	27.21	6.46	13	1.72	22.47	30	Pass
Band4	10	1732.5	QPSK	25	LOW	20.86	27.79	6.93	13	1.72	22.58	30	Pass
Band4	10	1732.5	QPSK	25	MID	20.45	27.39	6.94	13	1.72	22.17	30	Pass
Band4	10	1732.5	QPSK	25	HIGH	20.74	28.45	7.71	13	1.72	22.46	30	Pass
Band4	10	1732.5	QPSK	1	LOW	22.19	28.07	5.88	13	1.72	23.91	30	Pass
Band4	10	1732.5	QPSK	1	MID	21.73	26.99	5.26	13	1.72	23.45	30	Pass
Band4	10	1732.5	QPSK	1	HIGH	21.71	27.88	6.17	13	1.72	23.43	30	Pass
Band4	10	1732.5	16QA M	12	LOW	21.11	28.51	7.4	13	1.72	22.83	30	Pass
Band4	10	1732.5	16QA M	6	LOW	20.59	27.87	7.28	13	1.72	22.31	30	Pass
Band4	10	1732.5	16QA M	6	MID	20.72	27.83	7.11	13	1.72	22.44	30	Pass
Band4	10	1732.5	16QA M	6	HIGH	20.91	26.96	6.05	13	1.72	22.63	30	Pass
Band4	10	1732.5	16QA M	1	LOW	21.15	27.57	6.42	13	1.72	22.87	30	Pass
Band4	10	1732.5	16QA M	1	MID	20.77	26.45	5.68	13	1.72	22.49	30	Pass

Band4	10	1732.5	16QA M	1	HIGH	21.1	27.28	6.18	13	1.72	22.82	30	Pass
Band4	10	1750	QPSK	50	LOW	20.77	27.93	7.16	13	1.72	22.49	30	Pass
Band4	10	1750	QPSK	25	LOW	21.09	28.27	7.18	13	1.72	22.81	30	Pass
Band4	10	1750	QPSK	25	MID	20.83	27.95	7.12	13	1.72	22.55	30	Pass
Band4	10	1750	QPSK	25	HIGH	20.24	26.19	5.95	13	1.72	21.96	30	Pass
Band4	10	1750	QPSK	1	LOW	20.67	27.21	6.54	13	1.72	22.39	30	Pass
Band4	10	1750	QPSK	1	MID	21.65	26.61	4.96	13	1.72	23.37	30	Pass
Band4	10	1750	QPSK	1	HIGH	21.69	27.42	5.73	13	1.72	23.41	30	Pass
Band4	10	1750	16QA M	12	LOW	20.55	27.44	6.89	13	1.72	22.27	30	Pass
Band4	10	1750	16QA M	6	LOW	21.56	26.92	5.36	13	1.72	23.28	30	Pass
Band4	10	1750	16QA M	6	MID	21.58	27.37	5.79	13	1.72	23.3	30	Pass
Band4	10	1750	16QA M	6	HIGH	20.34	26.56	6.22	13	1.72	22.06	30	Pass
Band4	10	1750	16QA M	1	LOW	20.93	26.6	5.67	13	1.72	22.65	30	Pass
Band4	10	1750	16QA M	1	MID	21.06	25.91	4.85	13	1.72	22.78	30	Pass
Band4	10	1750	16QA M	1	HIGH	20.83	26.63	5.8	13	1.72	22.55	30	Pass
Band4	15	1717.5	QPSK	75	LOW	21.02	27.45	6.43	13	1.72	22.74	30	Pass
Band4	15	1717.5	QPSK	38	LOW	20.92	27.97	7.05	13	1.72	22.64	30	Pass
Band4	15	1717.5	QPSK	38	MID	20.86	28.61	7.75	13	1.72	22.58	30	Pass
Band4	15	1717.5	QPSK	38	HIGH	20.69	27.9	7.21	13	1.72	22.41	30	Pass
Band4	15	1717.5	QPSK	1	LOW	21.82	26	4.18	13	1.72	23.54	30	Pass
Band4	15	1717.5	QPSK	1	MID	21.44	26.62	5.18	13	1.72	23.16	30	Pass
Band4	15	1717.5	QPSK	1	HIGH	21.41	26.66	5.25	13	1.72	23.13	30	Pass
Band4	15	1717.5	16QA M	27	LOW	19.29	26.07	6.78	13	1.72	21.01	30	Pass
Band4	15	1717.5	16QA M	15	LOW	20.2	26.9	6.7	13	1.72	21.92	30	Pass
Band4	15	1717.5	16QA M	15	MID	20.46	27.79	7.33	13	1.72	22.18	30	Pass
Band4	15	1717.5	16QA M	15	HIGH	20.74	27	6.26	13	1.72	22.46	30	Pass
Band4	15	1717.5	16QA M	1	LOW	20.58	25.23	4.65	13	1.72	22.3	30	Pass
Band4	15	1717.5	16QA M	1	MID	21.44	27.42	5.98	13	1.72	23.16	30	Pass
Band4	15	1717.5	16QA M	1	HIGH	21.49	27.57	6.08	13	1.72	23.21	30	Pass
Band4	15	1732.5	QPSK	75	LOW	21.08	27.82	6.74	13	1.72	22.8	30	Pass
Band4	15	1732.5	QPSK	38	LOW	20.83	28.1	7.27	13	1.72	22.55	30	Pass
Band4	15	1732.5	QPSK	38	MID	21.04	28.6	7.56	13	1.72	22.76	30	Pass

Band4	15	1732.5	QPSK	38	HIGH	20.76	28.78	8.02	13	1.72	22.48	30	Pass
Band4	15	1732.5	QPSK	1	LOW	20.98	28.6	7.62	13	1.72	22.7	30	Pass
Band4	15	1732.5	QPSK	1	MID	21.3	27.14	5.84	13	1.72	23.02	30	Pass
Band4	15	1732.5	QPSK	1	HIGH	21.72	27.53	5.81	13	1.72	23.44	30	Pass
Band4	15	1732.5	16QA M	27	LOW	20	28.65	8.65	13	1.72	21.72	30	Pass
Band4	15	1732.5	16QA M	15	LOW	20.83	27.95	7.12	13	1.72	22.55	30	Pass
Band4	15	1732.5	16QA M	15	MID	21.07	28.44	7.37	13	1.72	22.79	30	Pass
Band4	15	1732.5	16QA M	15	HIGH	20.65	27.69	7.04	13	1.72	22.37	30	Pass
Band4	15	1732.5	16QA M	1	LOW	21.09	27.01	5.92	13	1.72	22.81	30	Pass
Band4	15	1732.5	16QA M	1	MID	21.83	27.93	6.1	13	1.72	23.55	30	Pass
Band4	15	1732.5	16QA M	1	HIGH	21.18	26.85	5.67	13	1.72	22.9	30	Pass
Band4	15	1747.5	QPSK	75	LOW	20.32	27.19	6.87	13	1.72	22.04	30	Pass
Band4	15	1747.5	QPSK	38	LOW	20.54	27.84	7.3	13	1.72	22.26	30	Pass
Band4	15	1747.5	QPSK	38	MID	20.77	28.24	7.47	13	1.72	22.49	30	Pass
Band4	15	1747.5	QPSK	38	HIGH	20.86	28.46	7.6	13	1.72	22.58	30	Pass
Band4	15	1747.5	QPSK	1	LOW	21.69	27.16	5.47	13	1.72	23.41	30	Pass
Band4	15	1747.5	QPSK	1	MID	21.18	25.83	4.65	13	1.72	22.9	30	Pass
Band4	15	1747.5	QPSK	1	HIGH	21.44	25.39	3.95	13	1.72	23.16	30	Pass
Band4	15	1747.5	16QA M	27	LOW	19.68	26.74	7.06	13	1.72	21.4	30	Pass
Band4	15	1747.5	16QA M	15	LOW	20.97	28.07	7.1	13	1.72	22.69	30	Pass
Band4	15	1747.5	16QA M	15	MID	20.73	27.46	6.73	13	1.72	22.45	30	Pass
Band4	15	1747.5	16QA M	15	HIGH	20.44	26.85	6.41	13	1.72	22.16	30	Pass
Band4	15	1747.5	16QA M	1	LOW	21.47	27.4	5.93	13	1.72	23.19	30	Pass
Band4	15	1747.5	16QA M	1	MID	21.42	27.24	5.82	13	1.72	23.14	30	Pass
Band4	15	1747.5	16QA M	1	HIGH	20.71	25.77	5.06	13	1.72	22.43	30	Pass
Band4	20	1720	QPSK	100	LOW	20.65	27.04	6.39	13	1.72	22.37	30	Pass
Band4	20	1720	QPSK	50	LOW	20.59	26.76	6.17	13	1.72	22.31	30	Pass
Band4	20	1720	QPSK	50	MID	20.76	26.53	5.77	13	1.72	22.48	30	Pass
Band4	20	1720	QPSK	50	HIGH	20.71	27.14	6.43	13	1.72	22.43	30	Pass
Band4	20	1720	QPSK	1	LOW	21.51	25.47	3.96	13	1.72	23.23	30	Pass
Band4	20	1720	QPSK	1	MID	22.25	26.64	4.39	13	1.72	23.97	30	Pass
Band4	20	1720	QPSK	1	HIGH	21.3	28.03	6.73	13	1.72	23.02	30	Pass

Band4	20	1720	16QA M	27	LOW	21.32	28.31	6.99	13	1.72	23.04	30	Pass
Band4	20	1720	16QA M	15	LOW	22.39	28.41	6.02	13	1.72	24.11	30	Pass
Band4	20	1720	16QA M	15	MID	22.54	28.34	5.8	13	1.72	24.26	30	Pass
Band4	20	1720	16QA M	15	HIGH	22.53	28.34	5.81	13	1.72	24.25	30	Pass
Band4	20	1720	16QA M	1	LOW	22.43	27.88	5.45	13	1.72	24.15	30	Pass
Band4	20	1720	16QA M	1	MID	23.28	29	5.72	13	1.72	25	30	Pass
Band4	20	1720	16QA M	1	HIGH	23.23	28.59	5.36	13	1.72	24.95	30	Pass
Band4	20	1732.5	QPSK	100	LOW	22.72	28.07	5.35	13	1.72	24.44	30	Pass