





Channel	Port	PSD (dBm/MHz)			
		QPSK	16QAM	64QAM	256QAM
Low	16	27.50	27.49	27.54	27.44
	17	27.41	27.46	27.51	27.44
	18	27.57	27.67	27.55	27.64
	19	27.43	27.38	27.40	27.37
	20	27.48	27.41	27.50	27.58
	21	27.74	27.63	27.67	27.75
	22	27.49	27.54	27.51	27.53
	23	27.59	27.59	27.54	27.56
	24	27.48	27.56	27.50	27.62
	25	27.37	27.40	27.31	27.35
	26	27.34	27.44	27.44	27.47
	27	27.40	27.44	27.40	27.44
	28	27.44	27.44	27.37	27.44
	29	27.49	27.32	27.31	27.37
	30	27.45	27.43	27.40	27.47
31	27.46	27.57	27.42	27.55	
Mid	16	27.26	27.15	26.93	27.22
	17	27.34	27.16	27.20	27.15
	18	27.44	27.37	27.48	27.41
	19	27.35	27.24	27.32	27.18
	20	27.28	27.23	27.29	27.25
	21	27.52	27.39	27.61	27.47
	22	27.47	27.36	27.50	27.36
	23	27.34	27.45	27.40	27.28
	24	27.51	27.54	27.68	27.53
	25	27.15	27.08	27.22	27.12
	26	27.29	27.23	27.23	27.19
	27	27.26	27.18	27.27	27.09
	28	27.38	27.36	27.22	27.29
	29	27.17	27.26	27.41	27.18
	30	27.26	27.17	27.16	27.10
31	27.30	27.29	27.17	27.13	
High	16	27.35	27.01	27.28	27.32
	17	27.35	27.30	27.39	27.23
	18	27.62	27.42	27.51	27.45
	19	27.55	27.23	27.39	27.39
	20	27.54	27.35	27.30	27.58
	21	27.72	27.44	27.43	27.41
	22	27.55	27.44	27.46	27.49
	23	27.54	27.38	27.40	27.37
	24	27.58	27.52	27.50	27.51
	25	27.36	27.41	27.34	27.24
	26	27.30	27.28	27.22	27.30
	27	27.47	27.21	27.21	27.42
	28	27.43	27.32	27.40	27.28
	29	27.42	27.16	27.30	27.32
	30	27.36	27.29	27.33	27.20
31	27.38	27.35	27.35	27.31	



FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 71 of 319	

Channel	Linear Sum	QPSK	16QAM	64QAM	256QAM
Low	Total MIMO Conducted Power (mW/MHz)	8953.21	8967.52	8920.38	9000.03
	Total MIMO Conducted Power (dBm/MHz)	39.52	39.53	39.50	39.54
	Ant. Gain (dBi)	21.20	21.20	21.20	21.20
	MIMO e.i.r.p (dBm/MHz)	60.72	60.73	60.70	60.74
	e.i.r.p Limit(dBm/MHz)	62.15	62.15	62.15	62.15
	Margin (dB)	-1.43	-1.42	-1.44	-1.41
Mid	Total MIMO Conducted Power (mW/MHz)	8660.56	8555.00	8636.61	8491.31
	Total MIMO Conducted Power (dBm/MHz)	39.38	39.32	39.36	39.29
	Ant. Gain (dBi)	21.20	21.20	21.20	21.20
	MIMO e.i.r.p (dBm/MHz)	60.58	60.52	60.56	60.49
	e.i.r.p Limit(dBm/MHz)	62.15	62.15	62.15	62.15
	Margin (dB)	-1.57	-1.63	-1.59	-1.66
High	Total MIMO Conducted Power (mW/MHz)	8939.16	8630.56	8719.27	8718.42
	Total MIMO Conducted Power (dBm/MHz)	39.51	39.36	39.40	39.40
	Ant. Gain (dBi)	21.20	21.20	21.20	21.20
	MIMO e.i.r.p (dBm/MHz)	60.71	60.56	60.60	60.60
	e.i.r.p Limit(dBm/MHz)	62.15	62.15	62.15	62.15
	Margin (dB)	-1.44	-1.59	-1.54	-1.54

Table 8-25. Power Spectral Density Table (PCS_NR_2C_15M+5M)



FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 72 of 319	

Channel	Port	PSD (dBm/MHz)			
		QPSK	16QAM	64QAM	256QAM
Low	16	25.90	25.83	25.97	25.77
	17	25.87	25.85	25.75	25.83
	18	25.78	25.77	25.83	25.74
	19	25.67	25.69	25.76	25.69
	20	25.74	25.82	25.82	25.91
	21	25.80	25.66	25.71	25.78
	22	25.74	25.74	25.72	25.68
	23	25.80	25.68	25.86	25.78
	24	25.85	25.75	25.78	25.38
	25	25.81	25.66	25.70	25.74
	26	25.35	25.40	25.37	25.63
	27	25.41	25.20	25.26	25.62
	28	25.73	25.73	25.66	25.66
	29	25.66	25.51	25.52	25.57
	30	25.53	25.48	25.57	25.47
31	25.57	25.47	25.47	25.68	
Mid	16	25.67	25.70	25.67	25.73
	17	25.66	25.80	25.66	25.63
	18	25.76	25.81	25.83	25.79
	19	25.70	25.77	25.63	25.79
	20	25.63	25.75	25.65	25.57
	21	25.62	25.61	25.58	25.67
	22	25.59	25.79	25.65	25.69
	23	25.68	25.62	25.70	25.75
	24	25.81	25.91	25.78	25.91
	25	25.58	25.72	25.63	25.70
	26	25.53	25.55	25.58	25.57
	27	25.54	25.52	25.53	25.57
	28	25.69	25.73	25.57	25.56
	29	25.52	25.61	25.44	25.64
	30	25.50	25.45	25.45	25.46
31	25.43	25.48	25.57	25.52	
High	16	25.76	25.68	25.77	25.67
	17	25.77	25.59	25.61	25.63
	18	25.87	25.76	26.00	25.81
	19	25.63	25.68	25.71	25.58
	20	25.60	25.67	25.72	25.66
	21	25.67	25.60	25.78	25.57
	22	25.73	25.68	25.77	25.73
	23	25.74	25.68	25.70	25.69
	24	25.83	25.89	25.95	25.82
	25	25.67	25.64	25.71	25.67
	26	25.55	25.62	25.51	25.54
	27	25.53	25.56	25.53	25.49
	28	25.61	25.69	25.62	25.74
	29	25.60	25.61	25.64	25.58
	30	25.46	25.53	25.48	25.45
31	25.56	25.49	25.52	25.48	



FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 73 of 319	

Channel	Linear Sum	QPSK	16QAM	64QAM	256QAM
Low	Total MIMO Conducted Power (mW/MHz)	5948.56	5866.12	5910.61	5924.62
	Total MIMO Conducted Power (dBm/MHz)	37.74	37.68	37.72	37.73
	Ant. Gain (dBi)	21.20	21.20	21.20	21.20
	MIMO e.i.r.p (dBm/MHz)	58.94	58.88	58.92	58.93
	e.i.r.p Limit(dBm/MHz)	62.15	62.15	62.15	62.15
	Margin (dB)	-3.20	-3.26	-3.23	-3.22
Mid	Total MIMO Conducted Power (mW/MHz)	5837.18	5912.55	5838.10	5892.69
	Total MIMO Conducted Power (dBm/MHz)	37.66	37.72	37.66	37.70
	Ant. Gain (dBi)	21.20	21.20	21.20	21.20
	MIMO e.i.r.p (dBm/MHz)	58.86	58.92	58.86	58.90
	e.i.r.p Limit(dBm/MHz)	62.15	62.15	62.15	62.15
	Margin (dB)	-3.29	-3.23	-3.29	-3.25
High	Total MIMO Conducted Power (mW/MHz)	5892.13	5875.53	5933.14	5853.58
	Total MIMO Conducted Power (dBm/MHz)	37.70	37.69	37.73	37.67
	Ant. Gain (dBi)	21.20	21.20	21.20	21.20
	MIMO e.i.r.p (dBm/MHz)	58.90	58.89	58.93	58.87
	e.i.r.p Limit(dBm/MHz)	62.15	62.15	62.15	62.15
	Margin (dB)	-3.25	-3.26	-3.22	-3.27

Table 8-26. Power Spectral Density Table (PCS_NR_3C_10M+10M+10M)



FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 74 of 319	

Channel	Port	PSD (dBm/MHz)			
		QPSK	16QAM	64QAM	256QAM
Low	16	27.45	27.49	27.36	27.45
	17	27.44	27.43	27.41	27.42
	18	27.31	27.56	27.35	27.26
	19	27.24	27.57	27.24	27.13
	20	27.35	27.51	27.24	27.45
	21	27.46	27.69	27.23	27.32
	22	27.43	27.47	27.16	27.23
	23	27.63	27.44	27.33	27.47
	24	27.33	27.41	27.28	27.37
	25	27.36	27.32	27.23	27.42
	26	27.37	27.52	27.33	27.38
	27	27.29	27.42	27.38	27.28
	28	27.25	27.49	27.25	27.30
	29	27.48	27.56	27.37	27.55
	30	27.44	27.50	27.41	27.27
31	27.25	27.63	27.21	27.29	
Mid	16	27.12	27.38	27.10	27.36
	17	27.16	27.43	27.18	27.20
	18	27.39	27.56	27.38	27.26
	19	27.03	27.28	27.16	27.08
	20	27.23	27.27	27.07	27.27
	21	27.32	27.45	27.13	27.26
	22	27.14	27.51	27.17	27.32
	23	27.31	27.50	27.33	27.21
	24	27.32	27.49	27.37	27.29
	25	27.31	27.40	27.18	27.25
	26	27.28	27.43	27.24	27.29
	27	27.16	27.29	27.18	27.11
	28	27.30	27.58	27.38	27.19
	29	27.15	27.45	27.39	27.22
	30	27.18	27.25	27.18	27.42
31	27.05	27.33	27.05	27.17	
High	16	27.25	27.30	27.04	27.14
	17	27.27	27.62	27.10	27.25
	18	27.33	27.37	27.29	27.34
	19	27.29	27.26	27.02	27.21
	20	27.35	27.46	27.14	27.26
	21	27.31	27.50	27.13	27.22
	22	27.30	27.25	27.15	27.28
	23	27.19	27.35	27.10	27.34
	24	27.26	27.44	27.35	27.32
	25	27.18	27.44	27.14	27.20
	26	27.23	27.46	27.23	27.31
	27	27.16	27.30	27.08	27.19
	28	27.31	27.55	27.22	27.27
	29	27.21	27.35	27.22	27.22
	30	27.21	27.30	27.13	27.16
31	27.14	27.35	27.17	27.22	



FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 75 of 319	

Channel	Linear Sum	QPSK	16QAM	64QAM	256QAM
Low	Total MIMO Conducted Power (mW/MHz)	8755.48	8999.94	8590.96	8694.31
	Total MIMO Conducted Power (dBm/MHz)	39.42	39.54	39.34	39.39
	Ant. Gain (dBi)	21.20	21.20	21.20	21.20
	MIMO e.i.r.p (dBm/MHz)	60.62	60.74	60.54	60.59
	e.i.r.p Limit(dBm/MHz)	62.15	62.15	62.15	62.15
	Margin (dB)	-1.53	-1.41	-1.61	-1.56
Mid	Total MIMO Conducted Power (mW/MHz)	39.26	39.46	39.26	39.29
	Total MIMO Conducted Power (dBm/MHz)	21.20	21.20	21.20	21.20
	Ant. Gain (dBi)	60.46	60.66	60.46	60.49
	MIMO e.i.r.p (dBm/MHz)	39.26	39.46	39.26	39.29
	e.i.r.p Limit(dBm/MHz)	62.15	62.15	62.15	62.15
	Margin (dB)	-1.69	-1.49	-1.69	-1.66
High	Total MIMO Conducted Power (mW/MHz)	8494.74	8782.73	8313.01	8485.02
	Total MIMO Conducted Power (dBm/MHz)	39.29	39.44	39.20	39.29
	Ant. Gain (dBi)	21.20	21.20	21.20	21.20
	MIMO e.i.r.p (dBm/MHz)	60.49	60.64	60.40	60.49
	e.i.r.p Limit(dBm/MHz)	62.15	62.15	62.15	62.15
	Margin (dB)	-1.66	-1.51	-1.75	-1.66

Table 8-27. Power Spectral Density Table (PCS_LTE_1C+NR_1C_15M+5M)



FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 76 of 319	

Channel	Port	PSD (dBm/MHz)			
		QPSK	16QAM	64QAM	256QAM
Low	16	25.51	25.62	25.48	25.48
	17	25.66	25.89	25.41	25.71
	18	25.58	25.77	25.57	25.64
	19	25.41	25.67	25.44	25.46
	20	25.53	25.71	25.40	25.45
	21	25.49	25.93	25.66	25.41
	22	25.39	25.88	25.49	25.45
	23	25.61	25.97	25.63	25.49
	24	25.48	25.70	25.56	25.33
	25	25.38	25.72	25.31	25.37
	26	25.46	25.63	25.49	25.51
	27	25.50	25.71	25.48	25.33
	28	25.63	25.58	25.55	25.52
	29	25.39	25.71	25.62	25.51
30	25.42	25.85	25.49	25.50	
31	25.46	25.58	25.34	25.29	
Mid	16	25.55	25.72	25.51	25.54
	17	25.83	25.88	25.68	25.88
	18	25.82	25.84	25.82	25.80
	19	25.64	25.85	25.70	25.67
	20	25.60	25.71	25.74	25.56
	21	25.71	25.91	25.59	25.54
	22	25.74	25.89	25.83	25.65
	23	25.62	25.82	25.59	25.53
	24	26.16	25.97	25.84	25.84
	25	25.52	25.87	25.63	25.74
	26	25.64	25.78	25.58	25.69
	27	25.65	25.71	25.58	25.57
	28	25.74	25.84	25.61	25.72
	29	25.62	26.05	25.71	25.81
30	25.68	25.80	25.55	25.60	
31	25.59	26.06	25.48	25.56	
High	16	25.53	25.91	25.51	25.54
	17	25.67	25.77	25.53	25.66
	18	25.67	26.10	25.74	25.78
	19	25.69	25.73	25.66	25.77
	20	25.65	25.85	25.65	25.64
	21	25.62	25.78	25.77	25.68
	22	25.83	25.94	25.65	25.62
	23	25.87	25.95	25.73	25.69
	24	25.83	25.93	25.81	25.86
	25	25.75	25.98	25.86	25.70
	26	25.79	25.89	25.67	25.76
	27	25.64	26.05	25.54	25.74
	28	25.88	26.03	25.78	25.75
	29	25.73	25.99	25.69	25.64
30	25.55	25.87	25.57	25.61	
31	25.62	25.80	25.60	25.71	



FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 77 of 319	

Channel	Linear Sum	QPSK	16QAM	64QAM	256QAM
Low	Total MIMO Conducted Power (mW/MHz)	5668.17	6007.34	5670.17	5632.38
	Total MIMO Conducted Power (dBm/MHz)	37.53	37.79	37.54	37.51
	Ant. Gain (dBi)	21.20	21.20	21.20	21.20
	MIMO e.i.r.p (dBm/MHz)	58.73	58.99	58.74	58.71
	e.i.r.p Limit(dBm/MHz)	62.15	62.15	62.15	62.15
	Margin (dB)	-3.41	-3.16	-3.41	-3.44
Mid	Total MIMO Conducted Power (mW/MHz)	5938.29	6161.94	5881.61	5904.24
	Total MIMO Conducted Power (dBm/MHz)	37.74	37.90	37.69	37.71
	Ant. Gain (dBi)	21.20	21.20	21.20	21.20
	MIMO e.i.r.p (dBm/MHz)	58.94	59.10	58.89	58.91
	e.i.r.p Limit(dBm/MHz)	62.15	62.15	62.15	62.15
	Margin (dB)	-3.21	-3.05	-3.25	-3.24
High	Total MIMO Conducted Power (mW/MHz)	5956.00	6240.65	5908.38	5939.40
	Total MIMO Conducted Power (dBm/MHz)	37.75	37.95	37.71	37.74
	Ant. Gain (dBi)	21.20	21.20	21.20	21.20
	MIMO e.i.r.p (dBm/MHz)	58.95	59.15	58.91	58.94
	e.i.r.p Limit(dBm/MHz)	62.15	62.15	62.15	62.15
	Margin (dB)	-3.20	-3.00	-3.23	-3.21

Table 8-28. Power Spectral Density Table (PCS_LTE_1C+NR_2C_10M+10M+10M)



FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 78 of 319	

Channel	Ratio	Port	PSD (dBm/MHz)			
			QPSK	16QAM	64QAM	256QAM
Low		16	27.68	27.77	27.27	27.33
		17	27.36	27.81	27.22	27.38
		18	27.49	27.93	27.27	27.31
		19	27.16	27.68	27.24	27.14
		20	27.27	27.98	27.27	27.24
		21	27.41	28.05	27.48	27.44
		22	27.31	27.87	27.31	27.36
		23	27.30	27.77	27.45	27.59
		24	27.45	28.06	27.29	27.33
		25	27.45	27.56	27.28	27.22
		26	27.45	27.93	27.42	27.30
		27	27.29	27.88	27.33	27.22
		28	27.43	27.99	27.22	27.31
		29	27.36	28.28	27.35	27.30
		30	27.48	27.82	27.42	27.29
Middle	LTE:5 NR:5	16	27.14	27.35	27.16	27.24
		17	27.05	27.64	27.14	27.18
		18	27.49	27.67	27.17	27.53
		19	27.25	27.54	27.21	27.07
		20	27.20	27.67	27.10	27.11
		21	27.17	27.68	27.17	27.15
		22	27.39	27.44	27.13	27.24
		23	27.33	27.68	27.12	27.14
		24	27.24	27.76	27.36	27.23
		25	27.21	27.66	27.15	27.17
		26	27.26	27.92	27.22	27.17
		27	27.26	27.46	27.11	27.12
		28	27.17	27.69	27.29	27.21
		29	27.24	27.63	27.28	27.35
		30	27.17	27.40	27.11	27.04
High		16	27.15	27.53	27.08	27.25
		17	27.38	27.70	27.09	27.07
		18	27.46	27.48	27.37	27.31
		19	27.23	27.53	27.13	27.02
		20	27.28	27.58	27.15	27.47
		21	27.35	27.73	27.14	27.10
		22	27.36	27.66	27.22	27.21
		23	27.22	27.48	27.19	27.14
		24	27.40	27.55	27.22	27.31
		25	27.16	27.48	27.34	27.20
		26	27.24	27.47	27.13	27.21
		27	27.45	27.50	27.13	27.07
		28	27.27	27.69	27.29	27.24
		29	27.37	27.47	27.17	27.32
		30	27.18	27.54	27.31	27.15
31	27.24	27.71	27.14	27.09		



FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 79 of 319	

Channel	Ratio	Linear Sum	QPSK	16QAM	64QAM	256QAM
Low	LTE:5 NR:5	Total MIMO Conducted Power (mW/MHz)	8764.51	9829.26	8630.03	8657.78
		Total MIMO Conducted Power (dBm/MHz)	39.43	39.93	39.36	39.37
		Ant. Gain (dBi)	21.20	21.20	21.20	21.20
		MIMO e.i.r.p (dBm/MHz)	60.63	61.13	60.56	60.57
		e.i.r.p Limit(dBm/MHz)	62.15	62.15	62.15	62.15
		Margin (dB)	-1.52	-1.02	-1.59	-1.57
Middle		Total MIMO Conducted Power (mW/MHz)	8448.60	9243.98	8362.26	8407.17
		Total MIMO Conducted Power (dBm/MHz)	39.27	39.66	39.22	39.25
		Ant. Gain (dBi)	21.20	21.20	21.20	21.20
		MIMO e.i.r.p (dBm/MHz)	60.47	60.86	60.42	60.45
		e.i.r.p Limit(dBm/MHz)	62.15	62.15	62.15	62.15
		Margin (dB)	-1.68	-1.29	-1.73	-1.70
High		Total MIMO Conducted Power (mW/MHz)	8586.00	9141.54	8389.87	8393.69
		Total MIMO Conducted Power (dBm/MHz)	39.34	39.61	39.24	39.24
		Ant. Gain (dBi)	21.20	21.20	21.20	21.20
		MIMO e.i.r.p (dBm/MHz)	60.54	60.81	60.44	60.44
		e.i.r.p Limit(dBm/MHz)	62.15	62.15	62.15	62.15
		Margin (dB)	-1.61	-1.34	-1.71	-1.71

Table 8-29. Peak Power Spectral Density Table (PCS_DSS_1C_15M+LTE_1C_5M)



FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 80 of 319	

Channel	Ratio	Port	PSD (dBm/MHz)			
			QPSK	16QAM	64QAM	256QAM
Low	LTE:5 NR:5	16	25.59	26.24	25.69	25.58
		17	25.61	26.33	25.81	25.74
		18	25.70	26.37	25.70	25.86
		19	25.86	26.28	25.69	25.54
		20	25.74	26.19	25.68	25.65
		21	25.66	26.21	25.88	25.65
		22	25.72	26.55	25.93	25.69
		23	25.72	26.21	25.73	25.63
		24	25.74	26.47	25.61	25.59
		25	25.79	26.44	25.69	25.58
		26	25.67	26.55	25.69	25.67
		27	25.76	26.30	25.93	25.53
		28	25.70	26.42	25.93	25.52
		29	25.75	26.27	25.70	25.57
		30	25.63	26.27	25.59	25.74
31		25.55	26.28	25.56	25.71	
Middle		16	25.58	26.23	25.51	25.58
		17	25.78	26.34	25.54	25.73
		18	25.76	26.44	25.66	25.79
		19	25.46	26.11	25.63	25.86
		20	25.57	26.26	25.59	25.83
		21	25.54	26.31	25.45	25.70
		22	25.67	26.43	25.63	25.91
		23	25.53	26.35	25.52	25.73
		24	25.78	26.28	25.77	25.85
		25	25.66	26.03	25.60	25.58
		26	25.71	26.39	25.53	25.86
		27	25.44	26.00	25.45	25.64
		28	25.64	26.33	25.67	25.76
		29	25.59	26.21	25.65	25.87
		30	25.53	26.08	25.41	25.75
31	25.55	26.15	25.52	25.63		
High	16	25.79	26.47	25.75	25.78	
	17	25.79	26.52	25.82	25.82	
	18	25.90	26.49	26.00	25.96	
	19	25.89	26.46	25.72	25.77	
	20	25.71	26.54	25.88	25.86	
	21	25.82	26.54	25.78	25.74	
	22	25.80	26.53	25.97	25.92	
	23	25.76	26.75	25.99	25.87	
	24	25.95	26.48	25.99	26.00	
	25	25.83	26.72	25.73	25.81	
	26	25.80	26.47	25.83	25.86	
	27	25.69	26.38	25.86	25.91	
	28	25.89	26.46	25.92	25.92	
	29	26.10	26.52	25.96	25.88	
	30	25.90	26.40	25.83	25.79	
31	25.78	26.49	25.78	25.74		



FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 81 of 319	

Channel	Ratio	Linear Sum	QPSK	16QAM	64QAM	256QAM
Low	LTE:5 NR:5	Total MIMO Conducted Power (mW/MHz)	5944.20	6882.48	5998.17	5864.66
		Total MIMO Conducted Power (dBm/MHz)	37.74	38.38	37.78	37.68
		Ant. Gain (dBi)	21.20	21.20	21.20	21.20
		MIMO e.i.r.p (dBm/MHz)	58.94	59.58	58.98	58.88
		e.i.r.p Limit(dBm/MHz)	62.15	62.15	62.15	62.15
		Margin (dB)	-3.21	-2.57	-3.17	-3.27
Middle		Total MIMO Conducted Power (mW/MHz)	5827.00	6744.93	5771.24	6020.46
		Total MIMO Conducted Power (dBm/MHz)	37.65	38.29	37.61	37.80
		Ant. Gain (dBi)	21.20	21.20	21.20	21.20
		MIMO e.i.r.p (dBm/MHz)	58.85	59.49	58.81	59.00
		e.i.r.p Limit(dBm/MHz)	62.15	62.15	62.15	62.15
		Margin (dB)	-3.29	-2.66	-3.34	-3.15
High		Total MIMO Conducted Power (mW/MHz)	6136.53	7169.46	6172.95	6157.16
		Total MIMO Conducted Power (dBm/MHz)	37.88	38.55	37.90	37.89
		Ant. Gain (dBi)	21.20	21.20	21.20	21.20
		MIMO e.i.r.p (dBm/MHz)	59.08	59.75	59.10	59.09
		e.i.r.p Limit(dBm/MHz)	62.15	62.15	62.15	62.15
		Margin (dB)	-3.07	-2.39	-3.04	-3.05

Table 8-30. Peak Power Spectral Density Table (PCS_DSS_1C_15M+LTE_1C_5M)



FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 82 of 319	

Channel	Ratio	Port	PSD (dBm/MHz)			
			QPSK	16QAM	64QAM	256QAM
Low	LTE:5 NR:5	16	27.79	28.02	27.41	27.48
		17	27.74	28.01	27.58	27.68
		18	27.62	28.07	27.59	27.53
		19	27.41	27.91	27.48	27.48
		20	27.54	28.04	27.85	27.64
		21	27.69	28.07	27.55	27.58
		22	27.57	27.96	27.53	27.51
		23	27.65	27.98	27.63	27.64
		24	27.65	28.01	27.51	27.64
		25	27.56	27.88	27.49	27.52
		26	27.69	28.21	27.70	27.66
		27	27.63	28.10	27.44	27.51
		28	27.60	28.10	27.57	27.62
		29	27.68	28.01	27.58	27.80
		30	27.80	28.00	27.51	27.67
31		27.83	28.01	27.48	27.59	
Middle		16	27.35	28.04	27.54	27.52
		17	27.55	28.07	27.34	27.32
		18	27.50	28.01	27.64	27.59
		19	27.54	27.88	27.38	27.40
		20	27.58	28.00	27.41	27.43
		21	27.45	27.98	27.46	27.45
		22	27.49	27.91	27.44	27.56
		23	27.50	27.90	27.53	27.45
		24	27.53	27.88	27.63	27.58
		25	27.31	27.97	27.41	27.78
		26	27.59	27.67	27.52	27.48
		27	27.48	27.78	27.39	27.30
		28	27.51	28.02	27.67	27.48
		29	27.48	28.11	27.50	27.50
		30	27.41	27.85	27.45	27.70
31	27.33	27.78	27.39	27.35		
High	16	27.41	28.03	27.46	27.52	
	17	27.68	27.74	27.51	27.40	
	18	27.65	28.02	27.41	27.74	
	19	27.45	27.78	27.36	27.65	
	20	27.44	27.94	27.36	27.47	
	21	27.44	27.64	27.24	27.43	
	22	27.51	27.98	27.57	27.44	
	23	27.68	27.75	27.54	27.43	
	24	27.68	27.82	27.42	27.51	
	25	27.36	27.88	27.59	27.51	
	26	27.69	27.98	27.35	27.34	
	27	27.49	27.76	27.39	27.31	
	28	27.69	27.90	27.46	27.45	
	29	27.47	27.82	27.41	27.46	
	30	27.52	27.86	27.52	27.31	
31	27.58	27.81	27.52	27.25		



FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 83 of 319	

Channel	Ratio	Linear Sum	QPSK	16QAM	64QAM	256QAM
Low	LTE:5 NR:5	Total MIMO Conducted Power (mW/MHz)	9321.61	10148.88	9117.54	9199.41
		Total MIMO Conducted Power (dBm/MHz)	39.69	40.06	39.60	39.64
		Ant. Gain (dBi)	21.20	21.20	21.20	21.20
		MIMO e.i.r.p (dBm/MHz)	60.89	61.26	60.80	60.84
		e.i.r.p Limit(dBm/MHz)	62.15	62.15	62.15	62.15
		Margin (dB)	-1.25	-0.88	-1.35	-1.31
Middle		Total MIMO Conducted Power (mW/MHz)	8947.78	9931.35	8957.24	8985.90
		Total MIMO Conducted Power (dBm/MHz)	39.52	39.97	39.52	39.54
		Ant. Gain (dBi)	21.20	21.20	21.20	21.20
		MIMO e.i.r.p (dBm/MHz)	60.72	61.17	60.72	60.74
		e.i.r.p Limit(dBm/MHz)	62.15	62.15	62.15	62.15
		Margin (dB)	-1.43	-0.98	-1.43	-1.41
High		Total MIMO Conducted Power (mW/MHz)	9096.94	9770.09	8886.59	8897.51
		Total MIMO Conducted Power (dBm/MHz)	39.59	39.90	39.49	39.49
		Ant. Gain (dBi)	21.20	21.20	21.20	21.20
		MIMO e.i.r.p (dBm/MHz)	60.79	61.10	60.69	60.69
		e.i.r.p Limit(dBm/MHz)	62.15	62.15	62.15	62.15
		Margin (dB)	-1.36	-1.05	-1.46	-1.46

Table 8-31. Peak Power Spectral Density Table (PCS_DSS_1C_15M+NR_1C_5M)



FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 84 of 319	

Channel	Ratio	Port	PSD (dBm/MHz)			
			QPSK	16QAM	64QAM	256QAM
Low	LTE:5 NR:5	16	25.63	26.05	25.61	25.74
		17	25.92	26.16	25.80	25.73
		18	25.80	26.17	25.82	25.72
		19	25.80	26.19	25.47	25.71
		20	25.67	26.12	25.87	25.72
		21	25.81	25.97	25.84	25.75
		22	25.64	26.31	25.76	26.03
		23	25.99	26.08	25.68	25.80
		24	25.63	26.37	25.62	25.60
		25	25.68	25.89	25.70	25.65
		26	25.67	26.00	25.67	25.64
		27	25.70	26.03	25.59	25.53
		28	25.71	26.27	25.53	25.73
		29	25.73	26.32	25.61	25.69
		30	25.78	25.90	25.80	25.60
31		25.69	25.94	25.63	25.57	
Middle		16	25.65	25.97	25.64	25.74
		17	25.66	25.86	25.48	25.75
		18	25.66	25.96	25.66	25.59
		19	25.56	26.01	25.45	25.24
		20	25.60	25.90	25.46	25.51
		21	25.66	26.12	25.53	25.61
		22	25.69	25.78	25.58	25.67
		23	25.81	26.34	25.51	25.65
		24	25.83	26.02	25.65	25.75
		25	25.57	25.97	25.43	25.45
		26	25.74	25.97	25.45	25.63
		27	25.55	25.90	25.44	25.54
		28	25.61	26.07	25.61	25.77
		29	25.66	26.01	25.43	25.55
		30	25.57	25.95	25.52	25.69
31	25.42	25.71	25.34	25.50		
High	16	25.40	25.77	25.42	25.48	
	17	25.77	26.12	25.64	25.56	
	18	25.65	26.27	25.63	25.92	
	19	25.67	25.98	25.51	25.52	
	20	25.59	26.14	25.55	25.63	
	21	25.70	26.03	25.50	25.54	
	22	25.74	26.23	25.62	25.56	
	23	25.61	25.80	25.57	25.88	
	24	25.71	26.04	25.80	25.75	
	25	25.78	25.76	25.50	25.51	
	26	25.80	26.13	25.66	25.58	
	27	25.68	25.76	25.53	25.46	
	28	25.79	26.08	25.69	25.64	
	29	25.70	25.99	25.66	25.78	
	30	25.60	26.00	25.51	25.45	
31	25.77	25.65	25.65	25.49		



FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 85 of 319	

Channel	Ratio	Linear Sum	QPSK	16QAM	64QAM	256QAM
Low	LTE:5 NR:5	Total MIMO Conducted Power (mW/MHz)	5999.89	6537.98	5927.69	5945.95
		Total MIMO Conducted Power (dBm/MHz)	37.78	38.15	37.73	37.74
		Ant. Gain (dBi)	21.20	21.20	21.20	21.20
		MIMO e.i.r.p (dBm/MHz)	58.98	59.35	58.93	58.94
		e.i.r.p Limit(dBm/MHz)	62.15	62.15	62.15	62.15
		Margin (dB)	-3.17	-2.79	-3.22	-3.21
Middle		Total MIMO Conducted Power (mW/MHz)	5864.23	6330.27	5691.63	5813.72
		Total MIMO Conducted Power (dBm/MHz)	37.68	38.01	37.55	37.64
		Ant. Gain (dBi)	21.20	21.20	21.20	21.20
		MIMO e.i.r.p (dBm/MHz)	58.88	59.21	58.75	58.84
		e.i.r.p Limit(dBm/MHz)	62.15	62.15	62.15	62.15
		Margin (dB)	-3.27	-2.93	-3.40	-3.30
High		Total MIMO Conducted Power (mW/MHz)	5924.19	6352.69	5796.80	5824.65
		Total MIMO Conducted Power (dBm/MHz)	37.73	38.03	37.63	37.65
		Ant. Gain (dBi)	21.20	21.20	21.20	21.20
		MIMO e.i.r.p (dBm/MHz)	58.93	59.23	58.83	58.85
		e.i.r.p Limit(dBm/MHz)	62.15	62.15	62.15	62.15
		Margin (dB)	-3.22	-2.92	-3.32	-3.30

Table 8-32. Peak Power Spectral Density Table (PCS_DSS_1C_15M+NR_1C_15M)



FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 86 of 319	

Channel	Port	PSD (dBm/MHz)			
		QPSK	16QAM	64QAM	256QAM
Low	0	28.20	28.23	28.17	28.13
	1	28.08	27.99	28.04	28.23
	2	28.06	28.01	27.99	28.04
	3	28.14	27.93	27.90	27.88
	4	28.28	27.98	28.14	28.09
	5	27.98	27.98	28.08	27.93
	6	27.99	27.98	28.12	28.13
	7	28.03	27.96	27.97	28.05
	8	28.21	28.14	28.19	28.18
	9	27.98	27.89	27.94	27.87
	10	28.02	28.17	28.17	28.06
	11	27.96	28.05	27.93	28.05
	12	28.01	27.88	28.02	28.11
	13	28.27	27.95	27.98	27.97
	14	27.93	27.94	28.01	28.01
15	28.23	28.00	28.00	28.01	
Mid	0	28.31	28.09	28.14	28.14
	1	28.18	28.00	27.90	27.95
	2	28.08	27.91	27.98	28.08
	3	27.84	27.70	27.80	27.82
	4	28.02	27.82	27.87	27.97
	5	28.16	27.86	27.84	27.92
	6	27.91	27.79	27.73	27.82
	7	28.05	27.88	27.97	27.97
	8	28.14	28.00	28.03	28.11
	9	27.95	27.80	27.82	27.90
	10	28.12	27.99	28.08	28.05
	11	28.15	28.02	28.02	27.99
	12	28.07	27.79	27.96	27.91
	13	27.96	27.89	28.01	27.89
	14	27.93	27.99	27.83	27.97
15	28.02	27.92	27.87	27.95	
High	0	28.27	28.16	28.34	28.27
	1	28.16	28.02	28.11	28.16
	2	28.05	28.19	28.09	28.05
	3	28.01	27.82	27.90	27.91
	4	28.26	28.02	28.07	28.17
	5	28.25	28.12	28.23	28.09
	6	28.12	28.00	28.12	28.00
	7	28.10	28.02	28.08	28.06
	8	28.16	28.05	28.11	28.23
	9	28.09	28.02	27.95	27.93
	10	28.19	28.04	28.10	28.09
	11	28.11	28.12	28.27	28.08
	12	28.06	28.10	28.15	28.20
	13	28.00	27.91	28.01	27.93
	14	28.11	28.09	28.05	28.06
15	28.02	28.08	28.03	27.97	



FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 87 of 319	

Channel	Linear Sum	QPSK	16QAM	64QAM	256QAM
Low	Total MIMO Conducted Power (mW/MHz)	10299.48	10110.69	10190.15	10205.55
	Total MIMO Conducted Power (dBm/MHz)	40.13	40.05	40.08	40.09
	Ant. Gain (dBi)	21.40	21.40	21.40	21.40
	MIMO e.i.r.p (dBm/MHz)	61.53	61.45	61.48	61.49
	e.i.r.p Limit(dBm/MHz)	62.15	62.15	62.15	62.15
	Margin (dB)	-0.62	-0.70	-0.67	-0.66
Mid	Total MIMO Conducted Power (mW/MHz)	10226.05	9875.93	9932.02	10017.03
	Total MIMO Conducted Power (dBm/MHz)	40.10	39.95	39.97	40.01
	Ant. Gain (dBi)	21.40	21.40	21.40	21.40
	MIMO e.i.r.p (dBm/MHz)	61.50	61.35	61.37	61.41
	e.i.r.p Limit(dBm/MHz)	62.15	62.15	62.15	62.15
	Margin (dB)	-0.65	-0.80	-0.78	-0.74
High	Total MIMO Conducted Power (mW/MHz)	10388.37	10206.52	10329.94	10273.54
	Total MIMO Conducted Power (dBm/MHz)	40.17	40.09	40.14	40.12
	Ant. Gain (dBi)	21.40	21.40	21.40	21.40
	MIMO e.i.r.p (dBm/MHz)	61.57	61.49	61.54	61.52
	e.i.r.p Limit(dBm/MHz)	62.15	62.15	62.15	62.15
	Margin (dB)	-0.58	-0.66	-0.61	-0.63

Table 8-33. Power Spectral Density Table (AWS_NR_1C_5M)



FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 88 of 319	

Channel	Port	PSD (dBm/MHz)			
		QPSK	16QAM	64QAM	256QAM
Low	0	27.92	27.94	27.96	28.03
	1	27.85	27.83	27.81	27.93
	2	27.82	27.85	27.78	27.85
	3	28.00	27.93	27.94	27.95
	4	27.76	27.79	27.82	27.79
	5	27.68	27.68	27.65	27.73
	6	27.76	27.82	27.73	27.75
	7	27.76	27.76	27.72	27.98
	8	27.95	27.94	28.00	27.95
	9	27.71	27.75	27.68	27.72
	10	27.78	27.75	27.79	27.78
	11	27.89	27.79	27.80	27.85
	12	27.91	27.75	27.80	27.85
	13	27.77	27.77	27.76	27.88
	14	27.79	27.77	27.77	27.82
15	27.77	27.81	27.76	27.80	
Mid	0	27.89	27.90	27.96	28.01
	1	27.86	27.82	27.83	27.82
	2	27.74	27.86	27.80	27.72
	3	27.85	27.89	27.96	27.85
	4	27.59	27.77	27.64	27.64
	5	27.68	27.68	27.66	27.65
	6	27.62	27.64	27.74	27.55
	7	27.75	27.75	27.69	27.64
	8	27.81	27.93	27.99	27.97
	9	27.56	27.67	27.67	27.82
	10	27.75	27.81	27.84	27.79
	11	27.79	27.87	27.91	27.77
	12	27.62	27.73	27.77	27.87
	13	27.70	27.71	27.63	27.65
	14	27.64	27.68	27.80	27.73
15	27.81	27.76	27.76	27.70	
High	0	28.00	27.93	27.97	27.95
	1	27.92	27.90	27.79	27.86
	2	27.84	27.81	27.83	27.79
	3	27.99	27.86	27.92	27.97
	4	27.94	27.87	27.82	27.97
	5	27.84	27.78	27.80	27.77
	6	27.79	27.89	27.79	27.74
	7	27.73	27.73	27.71	27.70
	8	27.79	27.80	27.80	27.85
	9	27.72	27.74	27.71	27.71
	10	27.86	27.80	27.78	27.81
	11	27.99	27.92	28.03	27.87
	12	27.87	27.96	27.83	27.84
	13	27.74	27.70	27.73	27.73
	14	27.79	27.87	27.77	27.73
15	27.81	27.81	27.81	27.76	



FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 89 of 319	

Channel	Linear Sum	QPSK	16QAM	64QAM	256QAM
Low	Total MIMO Conducted Power (mW/MHz)	9686.47	9658.38	9641.77	9759.61
	Total MIMO Conducted Power (dBm/MHz)	39.86	39.85	39.84	39.89
	Ant. Gain (dBi)	21.40	21.40	21.40	21.40
	MIMO e.i.r.p (dBm/MHz)	61.26	61.25	61.24	61.29
	e.i.r.p Limit(dBm/MHz)	62.15	62.15	62.15	62.15
	Margin (dB)	-0.89	-0.90	-0.91	-0.85
Mid	Total MIMO Conducted Power (mW/MHz)	9485.11	9593.32	9618.64	9557.70
	Total MIMO Conducted Power (dBm/MHz)	39.77	39.82	39.83	39.80
	Ant. Gain (dBi)	21.40	21.40	21.40	21.40
	MIMO e.i.r.p (dBm/MHz)	61.17	61.22	61.23	61.20
	e.i.r.p Limit(dBm/MHz)	62.15	62.15	62.15	62.15
	Margin (dB)	-0.98	-0.93	-0.92	-0.94
High	Total MIMO Conducted Power (mW/MHz)	9753.32	9718.28	9680.06	9675.56
	Total MIMO Conducted Power (dBm/MHz)	39.89	39.88	39.86	39.86
	Ant. Gain (dBi)	21.40	21.40	21.40	21.40
	MIMO e.i.r.p (dBm/MHz)	61.29	61.28	61.26	61.26
	e.i.r.p Limit(dBm/MHz)	62.15	62.15	62.15	62.15
	Margin (dB)	-0.86	-0.87	-0.89	-0.89

Table 8-34. Power Spectral Density Table (AWS_NR_1C_10M)



FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 90 of 319	

Channel	Port	PSD (dBm/MHz)			
		QPSK	16QAM	64QAM	256QAM
Low	0	27.89	27.97	27.99	28.00
	1	27.80	27.92	27.95	27.92
	2	27.85	27.89	27.94	27.85
	3	27.99	27.91	27.89	27.97
	4	27.77	27.89	27.70	27.88
	5	27.72	27.83	27.76	27.73
	6	27.71	27.79	27.77	27.82
	7	27.82	27.78	27.82	27.81
	8	27.89	27.99	27.86	27.92
	9	27.73	27.93	27.83	27.85
	10	27.84	27.94	27.90	27.77
	11	27.80	27.80	27.85	27.83
	12	27.80	27.79	28.01	27.85
	13	27.74	27.83	27.76	27.84
	14	27.78	27.72	27.87	27.75
15	27.71	27.73	27.83	27.81	
Mid	0	27.91	27.86	27.92	27.94
	1	27.93	27.89	27.83	27.81
	2	27.81	27.79	27.76	27.69
	3	27.92	27.85	27.88	27.89
	4	27.73	27.64	27.70	27.63
	5	27.70	27.74	27.67	27.61
	6	27.62	27.62	27.60	27.68
	7	27.78	27.82	27.68	27.70
	8	27.93	27.80	27.81	27.81
	9	27.85	27.72	27.78	27.65
	10	27.85	27.76	27.79	27.73
	11	27.88	27.90	27.81	27.82
	12	27.72	27.79	27.73	27.70
	13	27.74	27.70	27.64	27.89
	14	27.68	27.70	27.68	27.81
15	27.81	27.80	27.78	27.75	
High	0	28.14	28.04	27.90	28.03
	1	27.88	27.82	27.83	27.86
	2	27.93	27.83	27.80	27.77
	3	28.00	28.01	27.86	27.91
	4	27.97	27.88	27.82	27.80
	5	27.98	27.80	27.87	27.73
	6	27.82	27.72	27.65	27.73
	7	27.86	27.73	27.76	27.77
	8	27.83	27.92	27.73	27.73
	9	27.77	27.79	27.67	27.74
	10	27.80	27.75	27.79	27.68
	11	27.91	27.92	27.84	27.85
	12	27.90	27.89	27.85	27.82
	13	27.78	27.76	27.72	27.64
	14	27.82	27.76	27.69	27.72
15	27.84	27.69	27.75	27.70	



FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 91 of 319	

Channel	Linear Sum	QPSK	16QAM	64QAM	256QAM
Low	Total MIMO Conducted Power (mW/MHz)	9650.60	9767.51	9774.33	9755.09
	Total MIMO Conducted Power (dBm/MHz)	39.85	39.90	39.90	39.89
	Ant. Gain (dBi)	21.40	21.40	21.40	21.40
	MIMO e.i.r.p (dBm/MHz)	61.25	61.30	61.30	61.29
	e.i.r.p Limit(dBm/MHz)	62.15	62.15	62.15	62.15
	Margin (dB)	-0.90	-0.85	-0.85	-0.86
Mid	Total MIMO Conducted Power (mW/MHz)	9651.44	9582.54	9537.87	9546.65
	Total MIMO Conducted Power (dBm/MHz)	39.85	39.81	39.79	39.80
	Ant. Gain (dBi)	21.40	21.40	21.40	21.40
	MIMO e.i.r.p (dBm/MHz)	61.25	61.21	61.19	61.20
	e.i.r.p Limit(dBm/MHz)	62.15	62.15	62.15	62.15
	Margin (dB)	-0.90	-0.93	-0.95	-0.95
High	Total MIMO Conducted Power (mW/MHz)	9842.06	9711.56	9603.28	9597.79
	Total MIMO Conducted Power (dBm/MHz)	39.93	39.87	39.82	39.82
	Ant. Gain (dBi)	21.40	21.40	21.40	21.40
	MIMO e.i.r.p (dBm/MHz)	61.33	61.27	61.22	61.22
	e.i.r.p Limit(dBm/MHz)	62.15	62.15	62.15	62.15
	Margin (dB)	-0.82	-0.88	-0.92	-0.93

Table 8-35. Power Spectral Density Table (AWS_NR_1C_15M)



FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 92 of 319	

Channel	Port	PSD (dBm/MHz)			
		QPSK	16QAM	64QAM	256QAM
Low	0	27.79	27.85	27.76	27.87
	1	27.69	27.61	27.67	27.67
	2	27.64	27.69	27.63	27.69
	3	27.65	27.48	27.58	27.59
	4	27.61	27.57	27.68	27.60
	5	27.71	27.54	27.63	27.55
	6	27.64	27.56	27.64	27.64
	7	27.81	27.73	27.64	27.69
	8	27.71	27.78	27.77	27.74
	9	27.52	27.62	27.55	27.72
	10	27.61	27.62	27.72	27.67
	11	27.70	27.61	27.61	27.61
	12	27.65	27.62	27.65	27.64
	13	27.65	27.53	27.64	27.67
	14	27.66	27.70	27.59	27.59
15	27.53	27.54	27.54	27.73	
Mid	0	27.74	27.71	27.71	27.85
	1	27.72	27.70	27.63	27.68
	2	27.68	27.59	27.49	27.63
	3	27.62	27.50	27.44	27.81
	4	27.57	27.50	27.49	27.62
	5	27.56	27.42	27.32	27.63
	6	27.61	27.47	27.46	27.50
	7	27.71	27.59	27.58	27.61
	8	27.66	27.68	27.62	27.69
	9	27.49	27.53	27.42	27.53
	10	27.68	27.59	27.61	27.62
	11	27.61	27.57	27.50	27.63
	12	27.51	27.45	27.46	27.58
	13	27.47	27.47	27.45	27.71
	14	27.70	27.56	27.60	27.62
15	27.60	27.48	27.55	27.61	
High	0	27.79	27.81	27.85	27.74
	1	27.73	27.66	27.78	27.64
	2	27.66	27.60	27.72	27.63
	3	27.40	27.37	27.45	27.50
	4	27.66	27.65	27.61	27.68
	5	27.61	27.63	27.67	27.55
	6	27.59	27.43	27.55	27.58
	7	27.61	27.67	27.58	27.63
	8	27.63	27.54	27.61	27.64
	9	27.53	27.36	27.46	27.47
	10	27.57	27.47	27.58	27.65
	11	27.61	27.76	27.68	27.64
	12	27.61	27.66	27.73	27.65
	13	27.61	27.37	27.49	27.47
	14	27.66	27.64	27.63	27.61
15	27.54	27.53	27.53	27.66	



FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 93 of 319	

Channel	Linear Sum	QPSK	16QAM	64QAM	256QAM
Low	Total MIMO Conducted Power (mW/MHz)	9336.89	9268.72	9300.37	9349.57
	Total MIMO Conducted Power (dBm/MHz)	39.70	39.67	39.69	39.71
	Ant. Gain (dBi)	21.40	21.40	21.40	21.40
	MIMO e.i.r.p (dBm/MHz)	61.10	61.07	61.09	61.11
	e.i.r.p Limit(dBm/MHz)	62.15	62.15	62.15	62.15
	Margin (dB)	-1.05	-1.08	-1.06	-1.04
Mid	Total MIMO Conducted Power (mW/MHz)	9250.09	9100.19	9041.97	9304.90
	Total MIMO Conducted Power (dBm/MHz)	39.66	39.59	39.56	39.69
	Ant. Gain (dBi)	21.40	21.40	21.40	21.40
	MIMO e.i.r.p (dBm/MHz)	61.06	60.99	60.96	61.09
	e.i.r.p Limit(dBm/MHz)	62.15	62.15	62.15	62.15
	Margin (dB)	-1.09	-1.16	-1.19	-1.06
High	Total MIMO Conducted Power (mW/MHz)	9237.61	9148.63	9251.27	9225.05
	Total MIMO Conducted Power (dBm/MHz)	39.66	39.61	39.66	39.65
	Ant. Gain (dBi)	21.40	21.40	21.40	21.40
	MIMO e.i.r.p (dBm/MHz)	61.06	61.01	61.06	61.05
	e.i.r.p Limit(dBm/MHz)	62.15	62.15	62.15	62.15
	Margin (dB)	-1.09	-1.13	-1.09	-1.10



Table 8-36. Power Spectral Density Table (AWS_NR_1C_20M)

FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 94 of 319	

Channel	Ratio	Port	PSD (dBm/MHz)			
			QPSK	16QAM	64QAM	256QAM
Low		0	28.00	27.99	27.99	27.96
		1	27.83	27.75	27.84	27.78
		2	27.68	27.70	27.70	27.75
		3	28.00	27.96	28.17	28.09
		4	27.67	27.74	27.79	27.76
		5	28.04	27.89	28.05	27.84
		6	27.69	27.71	27.69	27.76
		7	27.78	27.94	27.92	27.80
		8	27.77	27.74	27.89	27.84
		9	27.77	27.75	27.79	27.80
		10	27.77	27.77	27.87	27.90
		11	27.88	27.80	27.93	28.09
		12	27.96	27.86	27.98	27.99
		13	27.95	27.97	27.95	27.91
		14	27.69	27.71	27.81	27.87
15	27.88	27.80	27.74	27.84		
Middle	LTE:5 NR:5	0	28.02	28.29	27.97	27.93
		1	27.67	27.97	27.70	27.71
		2	27.53	27.95	27.62	27.72
		3	27.84	28.10	27.80	27.76
		4	27.62	27.83	27.63	27.68
		5	27.90	28.08	27.91	27.83
		6	27.66	27.72	27.66	27.47
		7	27.80	28.17	27.73	27.82
		8	27.67	28.04	27.77	27.81
		9	27.60	27.91	27.66	27.57
		10	27.61	27.97	27.66	27.66
		11	27.96	28.09	27.80	27.82
		12	27.79	28.02	27.79	27.75
		13	27.77	27.96	27.74	27.71
		14	27.74	27.90	27.65	27.75
15	27.66	27.96	27.66	27.62		
High		0	27.96	28.07	27.95	28.02
		1	27.89	27.99	27.86	27.76
		2	27.65	27.82	27.69	27.75
		3	27.85	27.87	27.83	27.87
		4	27.82	27.80	27.79	27.79
		5	27.83	27.86	27.83	27.77
		6	27.81	27.83	27.78	27.81
		7	27.88	27.88	27.80	27.89
		8	27.83	27.81	27.78	27.74
		9	27.68	27.72	27.67	27.63
		10	27.79	27.80	27.70	27.69
		11	28.07	27.89	27.87	27.80
		12	27.83	27.86	27.83	27.75
		13	27.74	27.82	27.73	27.77
		14	27.81	27.90	27.73	27.69
15	27.90	27.87	27.80	27.76		



FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 95 of 319	

Low	LTE: 9 NR: 1	0	27.96	28.14	27.89	27.97
		1	27.80	28.18	27.82	27.75
		14	27.60	27.87	27.64	27.67
		15	27.68	27.99	27.82	27.69
Middle		0	27.88	28.10	27.89	27.87
		1	27.67	27.84	27.57	27.66
		14	27.67	27.87	27.70	27.66
		15	27.59	27.99	27.61	27.71
High		0	28.02	28.22	27.87	27.96
		1	27.82	28.01	27.83	27.86
		14	27.78	28.02	27.79	27.66
		15	27.73	28.10	27.71	27.73
Low	LTE: 2 NR: 8	0	27.99	28.21	27.92	27.89
		1	27.86	28.03	27.86	27.89
		14	27.70	27.96	27.68	27.76
		15	27.75	28.04	27.80	27.82
Middle		0	27.89	28.20	27.93	27.91
		1	27.76	27.99	27.64	27.68
		14	27.67	27.83	27.54	27.69
		15	27.65	27.87	27.64	27.61
High		0	28.01	28.29	27.89	27.93
		1	27.81	28.04	27.74	27.89
		14	27.73	27.94	27.71	27.77
		15	27.77	28.07	27.79	27.78



FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 96 of 319	

Channel	Ratio	Linear Sum	QPSK	16QAM	64QAM	256QAM
Low	LTE:5 NR:5	Total MIMO Conducted Power (mW/MHz)	9724.74	9680.17	9827.88	9810.58
		Total MIMO Conducted Power (dBm/MHz)	39.88	39.86	39.92	39.92
		Ant. Gain (dBi)	21.40	21.40	21.40	21.40
		MIMO e.i.r.p (dBm/MHz)	61.28	61.26	61.32	61.32
		e.i.r.p Limit(dBm/MHz)	62.15	62.15	62.15	62.15
		Margin (dB)	-0.87	-0.89	-0.82	-0.83
Middle		Total MIMO Conducted Power (mW/MHz)	9511.02	10092.22	9498.51	9476.46
		Total MIMO Conducted Power (dBm/MHz)	39.78	40.04	39.78	39.77
		Ant. Gain (dBi)	21.40	21.40	21.40	21.40
		MIMO e.i.r.p (dBm/MHz)	61.18	61.44	61.18	61.17
		e.i.r.p Limit(dBm/MHz)	62.15	62.15	62.15	62.15
		Margin (dB)	-0.97	-0.71	-0.97	-0.98
High		Total MIMO Conducted Power (mW/MHz)	9717.77	9779.22	9620.64	9596.36
		Total MIMO Conducted Power (dBm/MHz)	39.88	39.90	39.83	39.82
		Ant. Gain (dBi)	21.40	21.40	21.40	21.40
		MIMO e.i.r.p (dBm/MHz)	61.28	61.30	61.23	61.22
		e.i.r.p Limit(dBm/MHz)	62.15	62.15	62.15	62.15
		Margin (dB)	-0.87	-0.85	-0.92	-0.93



Table 8-37. Power Spectral Density Table (AWS_DSS_1C_10M)

FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 97 of 319	

Channel	Ratio	Port	PSD (dBm/MHz)			
			QPSK	16QAM	64QAM	256QAM
Low		0	28.01	28.70	27.90	27.91
		1	27.75	28.54	27.82	27.81
		2	27.68	28.38	27.68	27.83
		3	28.01	28.57	27.87	27.90
		4	27.70	28.33	27.75	27.73
		5	27.87	28.58	27.92	27.99
		6	27.62	28.35	27.75	27.80
		7	27.89	28.40	27.76	27.82
		8	27.84	28.37	27.79	27.78
		9	27.70	28.33	27.62	27.70
		10	27.83	28.45	27.73	27.77
		11	27.82	28.52	27.82	27.88
		12	27.91	28.67	27.90	27.96
		13	27.92	28.43	27.79	27.79
		14	27.62	28.42	27.69	27.74
15	27.74	28.37	27.80	27.81		
Middle	LTE:5 NR:5	0	27.87	28.51	27.86	27.91
		1	27.68	28.27	27.62	27.72
		2	27.61	28.14	27.61	27.74
		3	27.80	28.33	27.79	27.80
		4	27.76	28.19	27.63	27.68
		5	27.72	28.39	27.80	27.84
		6	27.52	28.22	27.53	27.60
		7	27.78	28.28	27.74	27.90
		8	27.72	28.39	27.72	27.74
		9	27.64	28.18	27.54	27.62
		10	27.61	28.17	27.63	27.70
		11	27.81	28.41	27.80	27.74
		12	27.75	28.36	27.76	27.69
		13	27.76	28.21	27.88	27.67
		14	27.63	28.26	27.72	27.68
15	27.67	28.27	27.62	27.70		
High		0	28.10	28.54	28.19	28.04
		1	27.82	28.26	27.83	27.80
		2	27.79	28.27	27.69	27.78
		3	28.00	28.57	27.86	27.91
		4	27.83	28.38	27.82	27.89
		5	27.98	28.45	27.73	27.82
		6	27.94	28.40	27.89	27.86
		7	27.96	28.47	27.90	27.93
		8	27.81	28.33	27.74	27.71
		9	27.70	28.24	27.73	27.69
		10	27.79	28.47	27.80	27.81
		11	27.90	28.59	27.98	27.87
		12	27.88	28.50	27.95	27.75
		13	27.95	28.38	27.74	27.78
		14	27.79	28.63	27.77	27.96
15	27.81	28.39	27.70	27.98		



FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 98 of 319	

Low	LTE: 9 NR: 1	0	27.99	28.74	27.92	27.99
		1	27.81	28.71	27.85	27.80
		14	27.74	28.49	27.71	27.72
		15	27.77	28.78	27.71	27.79
Middle		0	28.01	28.79	27.99	27.95
		1	27.71	28.51	27.64	27.59
		14	27.65	28.49	27.66	27.67
		15	27.79	28.35	27.72	27.75
High		0	28.12	28.67	28.02	28.12
		1	27.80	28.61	27.79	27.79
		14	27.83	28.72	27.80	27.81
		15	27.87	28.50	27.86	27.81
Low	LTE: 2 NR: 8	0	28.01	28.75	28.00	27.87
		1	27.80	28.56	27.79	27.79
		14	27.72	28.53	27.80	27.71
		15	27.84	28.54	27.78	27.77
Middle		0	28.01	28.78	27.97	27.99
		1	27.70	28.31	27.61	27.71
		14	27.70	28.55	27.62	27.58
		15	27.67	28.46	27.64	27.70
High		0	28.12	28.76	28.08	28.01
		1	27.84	28.55	28.00	27.96
		14	27.82	28.50	27.89	27.82
		15	27.86	28.54	27.82	27.81



FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 99 of 319	

Channel	Ratio	Linear Sum	QPSK	16QAM	64QAM	256QAM
Low	LTE:5 NR:5	Total MIMO Conducted Power (mW/MHz)	9655.85	11234.85	9612.35	9703.44
		Total MIMO Conducted Power (dBm/MHz)	39.85	40.51	39.83	39.87
		Ant. Gain (dBi)	21.40	21.40	21.40	21.40
		MIMO e.i.r.p (dBm/MHz)	61.25	61.91	61.23	61.27
		e.i.r.p Limit(dBm/MHz)	62.15	62.15	62.15	62.15
		Margin (dB)	-0.90	-0.24	-0.92	-0.88
Middle		Total MIMO Conducted Power (mW/MHz)	9440.28	10784.84	9430.35	9496.52
		Total MIMO Conducted Power (dBm/MHz)	39.75	40.33	39.75	39.78
		Ant. Gain (dBi)	21.40	21.40	21.40	21.40
		MIMO e.i.r.p (dBm/MHz)	61.15	61.73	61.15	61.18
		e.i.r.p Limit(dBm/MHz)	62.15	62.15	62.15	62.15
		Margin (dB)	-1.00	-0.42	-1.00	-0.97
High		Total MIMO Conducted Power (mW/MHz)	9818.95	11146.07	9718.52	9749.50
		Total MIMO Conducted Power (dBm/MHz)	39.92	40.47	39.88	39.89
		Ant. Gain (dBi)	21.40	21.40	21.40	21.40
		MIMO e.i.r.p (dBm/MHz)	61.32	61.87	61.28	61.29
		e.i.r.p Limit(dBm/MHz)	62.15	62.15	62.15	62.15
		Margin (dB)	-0.83	-0.28	-0.87	-0.86



Table 8-38. Power Spectral Density Table (AWS_DSS_1C_15M)

FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 100 of 319	

Channel	Ratio	Port	PSD (dBm/MHz)			
			QPSK	16QAM	64QAM	256QAM
Low		0	27.85	27.97	27.76	27.79
		1	27.68	28.01	27.72	27.65
		2	27.59	27.79	27.71	27.52
		3	27.81	28.16	27.84	27.76
		4	27.51	27.90	27.69	27.69
		5	27.81	28.17	27.86	27.73
		6	27.57	27.96	27.56	27.55
		7	27.68	27.86	27.77	27.69
		8	27.59	28.07	27.64	27.74
		9	27.57	27.78	27.62	27.58
		10	27.65	27.99	27.76	27.70
		11	27.69	28.00	27.74	27.72
		12	27.78	28.00	27.88	27.81
		13	27.81	27.95	27.73	27.68
		14	27.59	27.83	27.66	27.65
15	27.56	27.83	27.59	27.59		
Middle	LTE:5 NR:5	0	27.85	27.92	27.80	27.78
		1	27.62	27.77	27.54	27.61
		2	27.46	27.85	27.55	27.50
		3	27.67	27.95	27.72	27.67
		4	27.48	27.68	27.47	27.57
		5	27.87	27.93	27.75	27.73
		6	27.42	27.69	27.54	27.47
		7	27.66	27.84	27.62	27.64
		8	27.62	27.81	27.58	27.54
		9	27.52	27.69	27.56	27.52
		10	27.44	27.65	27.58	27.43
		11	27.64	27.89	27.62	27.73
		12	27.58	27.85	27.71	27.58
		13	27.64	27.75	27.63	27.68
		14	27.50	27.74	27.59	27.52
15	27.65	27.75	27.54	27.60		
High		0	27.81	28.07	27.96	27.85
		1	27.79	27.89	27.72	27.73
		2	27.57	27.95	27.67	27.64
		3	27.74	27.89	27.80	27.81
		4	27.75	27.95	27.86	27.68
		5	27.71	27.83	27.76	27.65
		6	27.66	27.92	27.75	27.59
		7	27.78	27.95	27.82	27.82
		8	27.86	27.89	27.70	27.71
		9	27.55	27.83	27.57	27.49
		10	27.57	27.75	27.64	27.64
		11	27.72	27.80	27.66	27.63
		12	27.70	27.95	27.71	27.61
		13	27.67	27.82	27.69	27.64
		14	27.62	27.82	27.76	27.64
15	27.64	27.86	27.70	27.73		



FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 101 of 319	

Low	LTE: 9 NR: 1	0	27.82	28.13	27.81	27.77
		1	27.68	27.98	27.71	27.67
		14	27.64	27.89	27.57	27.58
		15	27.71	27.87	27.58	27.66
Middle		0	27.82	28.07	27.87	27.95
		1	27.62	27.94	27.63	27.53
		14	27.53	27.81	27.47	27.46
		15	27.65	27.86	27.74	27.56
High		0	27.95	28.24	27.96	27.87
		1	27.75	27.95	27.76	27.75
		14	27.69	27.87	27.72	27.65
		15	27.78	28.01	27.68	27.68
Low	LTE: 2 NR: 8	0	27.79	28.08	27.88	27.89
		1	27.75	28.06	27.78	27.80
		14	27.56	27.96	27.59	27.65
		15	27.72	27.91	27.79	27.67
Middle		0	27.83	28.14	27.86	27.81
		1	27.64	27.80	27.59	27.60
		14	27.55	27.95	27.60	27.53
		15	27.51	27.86	27.52	27.57
High		0	27.95	28.13	27.87	27.91
		1	27.78	27.90	27.85	27.73
		14	27.61	27.94	27.59	27.63
		15	27.68	27.90	27.66	27.72



FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 102 of 319	

Channel	Ratio	Linear Sum	QPSK	16QAM	64QAM	256QAM
Low	LTE:5 NR:5	Total MIMO Conducted Power (mW/MHz)	9361.84	9993.48	9468.75	9374.04
		Total MIMO Conducted Power (dBm/MHz)	39.71	40.00	39.76	39.72
		Ant. Gain (dBi)	21.40	21.40	21.40	21.40
		MIMO e.i.r.p (dBm/MHz)	61.11	61.40	61.16	61.12
		e.i.r.p Limit(dBm/MHz)	62.15	62.15	62.15	62.15
		Margin (dB)	-1.03	-0.75	-0.99	-1.03
Middle		Total MIMO Conducted Power (mW/MHz)	9214.45	9637.47	9232.93	9201.54
		Total MIMO Conducted Power (dBm/MHz)	39.64	39.84	39.65	39.64
		Ant. Gain (dBi)	21.40	21.40	21.40	21.40
		MIMO e.i.r.p (dBm/MHz)	61.04	61.24	61.05	61.04
		e.i.r.p Limit(dBm/MHz)	62.15	62.15	62.15	62.15
		Margin (dB)	-1.10	-0.91	-1.10	-1.11
High		Total MIMO Conducted Power (mW/MHz)	9414.79	9834.43	9500.07	9376.24
		Total MIMO Conducted Power (dBm/MHz)	39.74	39.93	39.78	39.72
		Ant. Gain (dBi)	21.40	21.40	21.40	21.40
		MIMO e.i.r.p (dBm/MHz)	61.14	61.33	61.18	61.12
		e.i.r.p Limit(dBm/MHz)	62.15	62.15	62.15	62.15
		Margin (dB)	-1.01	-0.82	-0.97	-1.03

Table 8-39. Power Spectral Density Table (AWS_DSS_1C_20M)



FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 103 of 319	

Channel	Port	PSD (dBm/MHz)			
		QPSK	16QAM	64QAM	256QAM
Low	0	27.99	27.97	27.96	27.94
	1	27.92	27.81	27.78	27.82
	2	27.81	27.92	27.81	27.91
	3	27.79	27.75	27.78	27.70
	4	27.83	27.86	27.75	27.83
	5	28.04	27.74	28.03	27.78
	6	27.87	27.81	27.78	27.75
	7	27.91	27.93	27.85	27.88
	8	27.95	27.90	27.95	27.86
	9	27.91	27.72	27.70	27.80
	10	27.85	27.96	27.81	27.77
	11	27.98	27.88	27.77	27.82
	12	27.88	27.90	27.84	27.76
	13	27.92	27.70	27.86	27.76
	14	27.90	27.78	27.95	27.84
15	27.80	27.80	27.84	27.74	
Mid	0	28.12	27.93	27.95	28.01
	1	27.88	27.91	27.74	27.80
	2	27.83	27.76	27.64	27.63
	3	27.76	27.63	27.52	27.48
	4	27.94	27.81	27.67	27.70
	5	27.73	27.73	27.70	27.86
	6	27.72	27.81	27.66	27.53
	7	27.84	27.68	27.73	27.69
	8	28.15	27.87	27.84	27.93
	9	27.87	27.67	27.72	27.64
	10	27.99	27.90	27.75	27.79
	11	28.00	27.92	27.78	27.79
	12	27.85	27.64	27.69	27.75
	13	27.88	27.67	27.63	27.79
	14	27.84	27.71	27.75	27.73
15	28.00	27.70	27.71	27.66	
High	0	28.07	28.02	27.91	27.90
	1	27.86	27.79	27.78	27.80
	2	27.80	27.64	27.72	27.81
	3	27.56	27.55	27.61	27.51
	4	27.86	27.82	27.82	27.90
	5	27.84	27.73	27.71	27.79
	6	27.57	27.69	27.63	27.72
	7	27.82	27.69	27.68	27.64
	8	27.84	27.78	27.89	27.76
	9	27.68	27.63	27.66	27.72
	10	27.73	27.74	27.73	27.73
	11	27.91	27.84	27.78	27.96
	12	27.81	27.75	27.85	27.75
	13	27.76	27.62	27.62	27.64
	14	27.79	27.90	27.63	27.73
15	27.72	27.71	27.72	27.63	



FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 104 of 319	

Channel	Linear Sum	QPSK	16QAM	64QAM	256QAM
Low	Total MIMO Conducted Power (mW/MHz)	9859.66	9730.01	9730.02	9665.18
	Total MIMO Conducted Power (dBm/MHz)	39.94	39.88	39.88	39.85
	Ant. Gain (dBi)	21.40	21.40	21.40	21.40
	MIMO e.i.r.p (dBm/MHz)	61.34	61.28	61.28	61.25
	e.i.r.p Limit(dBm/MHz)	62.15	62.15	62.15	62.15
	Margin (dB)	-0.81	-0.87	-0.87	-0.90
Mid	Total MIMO Conducted Power (mW/MHz)	9865.83	9580.12	9459.30	9502.08
	Total MIMO Conducted Power (dBm/MHz)	39.94	39.81	39.76	39.78
	Ant. Gain (dBi)	21.40	21.40	21.40	21.40
	MIMO e.i.r.p (dBm/MHz)	61.34	61.21	61.16	61.18
	e.i.r.p Limit(dBm/MHz)	62.15	62.15	62.15	62.15
	Margin (dB)	-0.81	-0.93	-0.99	-0.97
High	Total MIMO Conducted Power (mW/MHz)	9620.44	9516.29	9495.50	9529.51
	Total MIMO Conducted Power (dBm/MHz)	39.83	39.78	39.78	39.79
	Ant. Gain (dBi)	21.40	21.40	21.40	21.40
	MIMO e.i.r.p (dBm/MHz)	61.23	61.18	61.18	61.19
	e.i.r.p Limit(dBm/MHz)	62.15	62.15	62.15	62.15
	Margin (dB)	-0.92	-0.96	-0.97	-0.96

Table 8-40. Power Spectral Density Table (AWS_NR_2C_15M+5M)



FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 105 of 319	

Channel	Port	PSD (dBm/MHz)			
		QPSK	16QAM	64QAM	256QAM
Low	0	23.93	23.94	23.90	24.03
	1	23.78	23.79	23.84	23.76
	2	23.74	23.75	23.67	23.79
	3	24.01	23.83	23.86	23.85
	4	23.87	23.78	23.71	23.76
	5	23.96	23.96	23.92	23.91
	6	23.64	23.63	23.75	23.79
	7	23.79	23.80	23.71	23.90
	8	23.85	23.81	23.66	23.80
	9	23.68	23.59	23.59	23.61
	10	23.93	23.83	23.75	23.68
	11	23.84	23.80	23.94	23.79
	12	23.89	23.95	23.99	23.83
	13	23.78	23.87	23.86	23.77
	14	23.95	23.73	23.81	23.81
15	23.85	23.74	23.69	23.59	
Mid	0	24.06	24.03	24.14	23.94
	1	23.89	23.77	23.72	23.71
	2	23.81	23.68	23.65	23.65
	3	23.88	23.97	23.86	23.92
	4	23.91	23.71	23.82	23.90
	5	23.91	23.96	23.84	23.92
	6	23.76	23.69	23.70	23.73
	7	23.95	23.73	23.83	23.67
	8	23.89	23.84	23.78	23.83
	9	23.72	23.65	23.73	23.72
	10	23.67	23.66	23.76	23.73
	11	23.89	23.76	23.85	23.72
	12	23.78	23.94	23.81	23.88
	13	23.78	23.80	23.70	23.64
	14	23.70	23.73	23.73	23.62
15	23.74	23.64	23.68	23.77	
High	0	24.00	23.97	23.94	23.88
	1	23.87	23.83	23.68	23.65
	2	23.62	23.60	23.69	23.76
	3	23.80	23.74	23.76	23.94
	4	23.67	23.81	23.67	23.68
	5	23.97	23.99	23.84	23.97
	6	24.01	23.78	23.70	23.92
	7	23.95	23.83	23.71	23.86
	8	23.78	23.82	23.76	23.85
	9	23.74	23.68	23.68	23.57
	10	24.03	23.70	23.63	23.68
	11	23.79	23.74	23.69	23.94
	12	23.72	23.86	23.75	23.74
	13	23.70	23.62	23.63	23.64
	14	23.74	23.72	23.61	23.65
15	23.84	23.62	23.69	23.76	



FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 106 of 319	

Channel	Linear Sum	QPSK	16QAM	64QAM	256QAM
Low	Total MIMO Conducted Power (mW/MHz)	3876.91	3839.33	3830.68	3832.03
	Total MIMO Conducted Power (dBm/MHz)	35.88	35.84	35.83	35.83
	Ant. Gain (dBi)	21.40	21.40	21.40	21.40
	MIMO e.i.r.p (dBm/MHz)	57.28	57.24	57.23	57.23
	e.i.r.p Limit(dBm/MHz)	62.15	62.15	62.15	62.15
	Margin (dB)	-4.86	-4.91	-4.92	-4.91
Mid	Total MIMO Conducted Power (mW/MHz)	3868.80	3826.85	3826.96	3812.82
	Total MIMO Conducted Power (dBm/MHz)	35.88	35.83	35.83	35.81
	Ant. Gain (dBi)	21.40	21.40	21.40	21.40
	MIMO e.i.r.p (dBm/MHz)	57.28	57.23	57.23	57.21
	e.i.r.p Limit(dBm/MHz)	62.15	62.15	62.15	62.15
	Margin (dB)	-4.87	-4.92	-4.92	-4.94
High	Total MIMO Conducted Power (mW/MHz)	3864.20	3812.42	3762.96	3822.25
	Total MIMO Conducted Power (dBm/MHz)	35.87	35.81	35.76	35.82
	Ant. Gain (dBi)	21.40	21.40	21.40	21.40
	MIMO e.i.r.p (dBm/MHz)	57.27	57.21	57.16	57.22
	e.i.r.p Limit(dBm/MHz)	62.15	62.15	62.15	62.15
	Margin (dB)	-4.88	-4.94	-4.99	-4.93

Table 8-41. Power Spectral Density Table (AWS_NR_3C_20M+15M+15M)



FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 107 of 319	

Channel	Port	PSD (dBm/MHz)			
		QPSK	16QAM	64QAM	256QAM
Low	0	28.03	28.52	28.10	28.03
	1	27.80	28.30	27.90	27.87
	2	27.83	28.45	27.77	27.86
	3	28.09	28.69	28.00	28.17
	4	27.84	28.28	27.88	27.85
	5	28.03	28.49	27.99	28.03
	6	27.82	28.47	27.85	27.79
	7	27.89	28.51	27.87	27.87
	8	27.94	28.56	27.87	27.87
	9	27.79	28.26	27.75	27.81
	10	27.92	28.38	28.05	28.05
	11	27.95	28.59	27.87	28.00
	12	28.04	28.71	28.08	28.12
	13	27.98	28.39	27.92	27.96
	14	27.85	28.36	27.85	27.91
15	27.89	28.30	27.83	27.83	
Mid	0	28.05	28.70	27.94	27.99
	1	27.76	28.56	27.74	27.76
	2	27.70	28.58	27.66	27.69
	3	27.87	28.56	27.82	27.79
	4	27.82	28.54	27.82	27.77
	5	27.93	28.70	27.84	27.80
	6	27.72	28.48	27.74	27.74
	7	27.88	28.51	27.73	27.82
	8	27.76	28.57	27.69	27.79
	9	27.67	28.44	27.64	27.64
	10	27.72	28.50	27.63	27.69
	11	27.86	28.70	27.78	27.91
	12	27.94	28.50	27.83	27.82
	13	27.79	28.53	27.82	27.88
	14	27.70	28.53	27.70	27.71
15	27.79	28.34	27.76	27.82	
High	0	28.07	28.86	28.00	27.99
	1	27.83	28.52	27.69	27.78
	2	27.76	28.59	27.66	27.88
	3	27.90	28.57	27.90	27.81
	4	27.90	28.49	27.73	27.83
	5	27.90	28.47	27.83	27.77
	6	27.95	28.69	27.82	27.79
	7	27.91	28.65	27.84	27.78
	8	27.98	28.57	27.82	27.89
	9	27.75	28.42	27.64	27.72
	10	27.77	28.54	27.75	27.71
	11	27.82	28.55	27.79	27.80
	12	27.87	28.64	27.88	27.77
	13	27.81	28.58	27.84	27.75
	14	27.82	28.48	27.85	27.78
15	27.89	28.48	27.73	27.70	



FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 108 of 319	

Channel	Linear Sum	QPSK	16QAM	64QAM	256QAM
Low	Total MIMO Conducted Power (mW/MHz)	9907.18	11211.66	9894.35	9957.92
	Total MIMO Conducted Power (dBm/MHz)	39.96	40.50	39.95	39.98
	Ant. Gain (dBi)	21.40	21.40	21.40	21.40
	MIMO e.i.r.p (dBm/MHz)	61.36	61.90	61.35	61.38
	e.i.r.p Limit(dBm/MHz)	62.15	62.15	62.15	62.15
	Margin (dB)	-0.79	-0.25	-0.79	-0.77
Mid	Total MIMO Conducted Power (mW/MHz)	9797.83	11448.26	9639.78	9634.39
	Total MIMO Conducted Power (dBm/MHz)	39.91	40.59	39.84	39.84
	Ant. Gain (dBi)	21.40	21.40	21.40	21.40
	MIMO e.i.r.p (dBm/MHz)	61.31	61.99	61.24	61.24
	e.i.r.p Limit(dBm/MHz)	62.15	62.15	62.15	62.15
	Margin (dB)	-0.90	-0.16	-0.95	-0.92
High	Total MIMO Conducted Power (mW/MHz)	9797.83	11509.09	9639.78	9634.39
	Total MIMO Conducted Power (dBm/MHz)	39.91	40.61	39.84	39.84
	Ant. Gain (dBi)	21.40	21.40	21.40	21.40
	MIMO e.i.r.p (dBm/MHz)	61.31	62.01	61.24	61.24
	e.i.r.p Limit(dBm/MHz)	62.15	62.15	62.15	62.15
	Margin (dB)	-0.84	-0.14	-0.91	-0.91

Table 8-42. Power Spectral Density Table (AWS_LTE_2C_15M+5M)



FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 109 of 319	

Channel	Port	PSD (dBm/MHz)			
		QPSK	16QAM	64QAM	256QAM
Low	0	27.88	28.07	27.79	27.80
	1	27.75	27.93	27.68	27.66
	2	27.68	27.84	27.59	27.65
	3	27.88	28.12	27.80	27.84
	4	27.77	27.95	27.65	27.65
	5	27.89	28.22	27.81	27.86
	6	27.60	27.82	27.64	27.61
	7	27.67	27.89	27.64	27.69
	8	27.80	28.09	27.74	27.66
	9	27.65	27.81	27.63	27.68
	10	27.78	27.94	27.78	27.75
	11	27.81	27.97	27.72	27.78
	12	27.84	27.98	27.84	27.85
	13	27.85	27.99	27.73	27.77
	14	27.71	27.92	27.67	27.63
15	27.73	27.96	27.63	27.61	
Mid	0	27.72	28.07	27.88	27.72
	1	27.55	27.75	27.51	27.53
	2	27.45	27.62	27.42	27.45
	3	27.60	27.82	27.64	27.64
	4	27.48	27.82	27.50	27.45
	5	27.67	27.90	27.65	27.63
	6	27.52	27.64	27.37	27.47
	7	27.55	27.73	27.64	27.51
	8	27.59	27.81	27.56	27.69
	9	27.46	27.66	27.41	27.42
	10	27.44	27.69	27.53	27.38
	11	27.63	27.82	27.57	27.59
	12	27.61	27.67	27.62	27.67
	13	27.54	27.74	27.50	27.59
	14	27.47	27.61	27.49	27.51
15	27.57	27.60	27.44	27.46	
High	0	27.81	28.11	27.83	27.76
	1	27.67	28.02	27.66	27.58
	2	27.63	27.87	27.63	27.81
	3	27.70	27.98	27.77	27.94
	4	27.70	27.93	27.76	27.84
	5	27.67	27.85	27.68	27.95
	6	27.75	27.89	27.67	27.92
	7	27.71	27.92	27.69	27.90
	8	27.69	28.00	27.80	27.96
	9	27.54	27.72	27.49	27.85
	10	27.64	27.95	27.67	27.90
	11	27.66	27.90	27.74	27.89
	12	27.77	28.01	27.78	27.99
	13	27.63	27.86	27.67	27.88
	14	27.52	27.84	27.66	27.53
15	27.57	27.83	27.59	27.50	



FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 110 of 319	

Channel	Linear Sum	QPSK	16QAM	64QAM	256QAM
Low	Total MIMO Conducted Power (mW/MHz)	9570.45	10024.62	9439.71	9459.47
	Total MIMO Conducted Power (dBm/MHz)	39.81	40.01	39.75	39.76
	Ant. Gain (dBi)	21.40	21.40	21.40	21.40
	MIMO e.i.r.p (dBm/MHz)	61.21	61.41	61.15	61.16
	e.i.r.p Limit(dBm/MHz)	62.15	62.15	62.15	62.15
	Margin (dB)	-0.94	-0.74	-1.00	-0.99
Mid	Total MIMO Conducted Power (mW/MHz)	9107.77	9526.48	9096.73	9091.38
	Total MIMO Conducted Power (dBm/MHz)	39.59	39.79	39.59	39.59
	Ant. Gain (dBi)	21.40	21.40	21.40	21.40
	MIMO e.i.r.p (dBm/MHz)	60.99	61.19	60.99	60.99
	e.i.r.p Limit(dBm/MHz)	62.15	62.15	62.15	62.15
	Margin (dB)	-1.15	-0.96	-1.16	-1.16
High	Total MIMO Conducted Power (mW/MHz)	9349.37	9907.28	9406.30	9701.37
	Total MIMO Conducted Power (dBm/MHz)	39.71	39.96	39.73	39.87
	Ant. Gain (dBi)	21.40	21.40	21.40	21.40
	MIMO e.i.r.p (dBm/MHz)	61.11	61.36	61.13	61.27
	e.i.r.p Limit(dBm/MHz)	62.15	62.15	62.15	62.15
	Margin (dB)	-1.04	-0.79	-1.01	-0.88

Table 8-43. Power Spectral Density Table (AWS_NR_1C_15M+LTE_1C_5M)



FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 111 of 319	

Channel	Port	PSD (dBm/MHz)			
		QPSK	16QAM	64QAM	256QAM
Low	0	23.98	24.77	24.03	24.00
	1	23.73	24.49	23.76	23.70
	2	23.71	24.42	23.70	23.76
	3	23.94	24.62	23.88	23.91
	4	23.76	24.43	23.78	23.79
	5	23.94	24.72	23.87	23.89
	6	23.79	24.40	23.76	23.77
	7	23.88	24.49	23.72	23.83
	8	23.88	24.66	23.80	23.76
	9	23.79	24.53	23.57	23.74
	10	23.78	24.43	23.82	23.79
	11	23.86	24.72	23.80	23.89
	12	23.89	24.53	23.92	23.87
	13	23.85	24.58	23.81	23.76
	14	23.71	24.42	23.72	23.72
15	23.73	24.26	23.71	23.70	
Mid	0	24.00	24.81	23.95	23.99
	1	23.71	24.48	23.70	23.74
	2	23.66	24.36	23.64	23.64
	3	23.73	24.47	23.69	23.73
	4	23.75	24.45	23.69	23.71
	5	23.81	24.65	23.78	23.77
	6	23.71	24.39	23.70	23.66
	7	23.72	24.38	23.67	23.73
	8	23.73	24.48	23.69	23.74
	9	23.64	24.28	23.61	23.59
	10	23.74	24.28	23.69	23.63
	11	23.72	24.42	23.67	23.79
	12	23.71	24.38	23.72	23.75
	13	23.64	24.35	23.68	23.73
	14	23.67	24.39	23.72	23.65
15	23.65	24.26	23.61	23.65	
High	0	24.08	24.76	24.04	23.98
	1	23.86	24.40	23.70	23.71
	2	23.67	24.63	23.73	23.73
	3	23.83	24.57	23.83	23.73
	4	23.79	24.57	23.76	23.72
	5	23.95	24.70	23.78	23.73
	6	23.77	24.55	23.74	23.70
	7	23.84	24.59	23.80	23.66
	8	23.82	24.56	23.88	23.73
	9	23.71	24.55	23.64	23.58
	10	23.86	24.63	23.69	23.64
	11	23.87	24.52	23.83	23.64
	12	23.86	24.55	23.81	23.69
	13	23.81	24.42	23.76	23.68
	14	23.82	24.47	23.75	23.70
15	23.76	24.51	23.71	23.72	



FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 112 of 319	

Channel	Linear Sum	QPSK	16QAM	64QAM	256QAM
Low	Total MIMO Conducted Power (mW/MHz)	3861.92	4541.90	3829.97	3842.11
	Total MIMO Conducted Power (dBm/MHz)	35.87	36.57	35.83	35.85
	Ant. Gain (dBi)	21.40	21.40	21.40	21.40
	MIMO e.i.r.p (dBm/MHz)	57.27	57.97	57.23	57.25
	e.i.r.p Limit(dBm/MHz)	62.15	62.15	62.15	62.15
	Margin (dB)	-4.88	-4.18	-4.92	-4.90
Mid	Total MIMO Conducted Power (mW/MHz)	3773.03	4436.11	3750.81	3768.13
	Total MIMO Conducted Power (dBm/MHz)	35.77	36.47	35.74	35.76
	Ant. Gain (dBi)	21.40	21.40	21.40	21.40
	MIMO e.i.r.p (dBm/MHz)	57.17	57.87	57.14	57.16
	e.i.r.p Limit(dBm/MHz)	62.15	62.15	62.15	62.15
	Margin (dB)	-4.98	-4.28	-5.01	-4.99
High	Total MIMO Conducted Power (mW/MHz)	3867.05	4574.05	3819.30	3758.32
	Total MIMO Conducted Power (dBm/MHz)	35.87	36.60	35.82	35.75
	Ant. Gain (dBi)	21.40	21.40	21.40	21.40
	MIMO e.i.r.p (dBm/MHz)	57.27	58.00	57.22	57.15
	e.i.r.p Limit(dBm/MHz)	62.15	62.15	62.15	62.15
	Margin (dB)	-4.87	-4.15	-4.93	-5.00

Table 8-44. Power Spectral Density Table (AWS_NR_2C_15M+10M+ LTE_2C+15M+10M)



FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 113 of 319	

Channel	Ratio	Port	PSD (dBm/MHz)			
			QPSK	16QAM	64QAM	256QAM
Low		0	27.89	28.44	27.85	27.86
		1	27.89	28.43	27.70	27.75
		2	27.80	28.31	27.61	27.69
		3	27.85	28.55	27.80	27.95
		4	27.84	28.26	27.68	27.74
		5	27.85	28.46	27.78	27.88
		6	27.86	28.38	27.61	27.56
		7	27.88	28.32	27.65	27.69
		8	27.80	28.33	27.69	27.76
		9	27.74	28.36	27.59	27.72
		10	27.80	28.40	27.70	27.83
		11	27.83	28.41	27.73	27.78
		12	28.06	28.57	27.90	27.90
		13	27.88	28.44	27.75	27.79
		14	27.83	28.35	27.64	27.68
15	27.85	28.33	27.72	27.70		
Middle	LTE:5 NR:5	0	27.92	28.62	27.85	27.85
		1	27.63	28.24	27.59	27.70
		2	27.55	28.27	27.58	27.60
		3	27.86	28.33	27.73	27.75
		4	27.72	28.29	27.70	27.64
		5	27.78	28.33	27.78	27.81
		6	27.58	28.09	27.63	27.60
		7	27.63	28.40	27.62	27.69
		8	27.66	28.25	27.67	27.70
		9	27.57	28.24	27.55	27.60
		10	27.57	28.15	27.60	27.55
		11	27.70	28.31	27.67	27.72
		12	27.75	28.49	27.68	27.79
		13	27.67	28.31	27.71	27.66
		14	27.67	28.15	27.57	27.63
15	27.67	28.19	27.70	27.75		
High		0	27.90	28.44	27.88	27.86
		1	27.74	28.34	27.75	27.58
		2	27.72	28.17	27.55	27.62
		3	27.74	28.27	27.65	27.77
		4	27.70	28.20	27.83	27.74
		5	27.69	28.15	27.71	27.74
		6	27.76	28.21	27.65	27.74
		7	27.76	28.32	27.72	27.73
		8	27.74	28.18	27.66	27.81
		9	27.65	28.09	27.54	27.59
		10	27.63	28.24	27.68	27.67
		11	27.74	28.25	27.71	27.71
		12	27.88	28.25	27.71	27.75
		13	27.63	28.13	27.55	27.63
		14	27.67	28.26	27.67	27.60
15	27.78	28.22	27.57	27.61		



FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 114 of 319	

Channel	Ratio	Linear Sum	QPSK	16QAM	64QAM	256QAM
Low	LTE:5 NR:5	Total MIMO Conducted Power (mW/MHz)	9761.45	11059.97	9448.28	9571.86
		Total MIMO Conducted Power (dBm/MHz)	39.90	40.44	39.75	39.81
		Ant. Gain (dBi)	21.40	21.40	21.40	21.40
		MIMO e.i.r.p (dBm/MHz)	61.30	61.84	61.15	61.21
		e.i.r.p Limit(dBm/MHz)	62.15	62.15	62.15	62.15
		Margin (dB)	-0.85	-0.31	-0.99	-0.94
Middle		Total MIMO Conducted Power (mW/MHz)	9386.45	10800.56	9344.15	9402.15
		Total MIMO Conducted Power (dBm/MHz)	39.73	40.33	39.71	39.73
		Ant. Gain (dBi)	21.40	21.40	21.40	21.40
		MIMO e.i.r.p (dBm/MHz)	61.13	61.73	61.11	61.13
		e.i.r.p Limit(dBm/MHz)	62.15	62.15	62.15	62.15
		Margin (dB)	-1.02	-0.41	-1.04	-1.02
High		Total MIMO Conducted Power (mW/MHz)	9494.18	10650.69	9371.86	9414.08
		Total MIMO Conducted Power (dBm/MHz)	39.77	40.27	39.72	39.74
		Ant. Gain (dBi)	21.40	21.40	21.40	21.40
		MIMO e.i.r.p (dBm/MHz)	61.17	61.67	61.12	61.14
		e.i.r.p Limit(dBm/MHz)	62.15	62.15	62.15	62.15
		Margin (dB)	-0.97	-0.47	-1.03	-1.01

Table 8-45. Peak Power Spectral Density Table (AWS_DSS_1C_15M+ LTE_1C+5M)



FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 115 of 319	

Channel	Ratio	Port	PSD (dBm/MHz)			
			QPSK	16QAM	64QAM	256QAM
Low		0	24.11	24.76	24.12	24.06
		1	23.85	24.63	23.85	23.81
		2	23.83	24.50	23.81	23.74
		3	24.01	24.71	24.06	23.95
		4	23.91	24.55	23.86	23.85
		5	24.05	24.70	23.99	23.97
		6	23.78	24.57	23.80	23.78
		7	23.89	24.64	23.92	23.99
		8	23.95	24.67	23.97	23.90
		9	23.82	24.53	23.85	23.80
		10	23.87	24.49	23.82	23.77
		11	23.97	24.89	23.95	23.97
		12	23.99	24.77	23.98	23.99
		13	23.89	24.63	23.92	23.98
		14	23.91	24.50	23.81	23.85
Middle	LTE:5 NR:5	0	24.15	24.76	24.06	24.07
		1	23.94	24.56	23.85	23.86
		2	23.90	24.57	23.87	23.72
		3	24.01	24.68	23.90	23.92
		4	23.95	24.58	23.84	23.80
		5	23.96	24.64	24.00	23.85
		6	23.95	24.60	23.92	23.83
		7	23.95	24.57	23.85	23.84
		8	23.96	24.62	23.85	23.87
		9	23.88	24.56	23.72	23.75
		10	23.83	24.56	23.77	23.73
		11	23.95	24.58	23.82	23.82
		12	23.93	24.71	23.90	23.89
		13	23.87	24.58	23.80	23.83
		14	23.91	24.61	23.82	23.81
High		0	24.15	24.86	24.17	24.14
		1	23.98	24.72	23.99	23.88
		2	23.93	24.56	23.87	23.75
		3	23.97	24.74	24.05	23.97
		4	23.86	24.62	23.95	23.89
		5	23.89	24.55	23.89	23.94
		6	23.95	24.52	23.93	23.83
		7	23.98	24.66	23.94	23.93
		8	23.91	24.62	23.84	23.90
		9	23.84	24.53	23.76	23.72
		10	23.94	24.61	23.89	23.79
		11	24.00	24.66	23.90	23.94
		12	23.95	24.67	23.90	23.88
		13	23.93	24.64	23.84	23.94
		14	23.92	24.61	23.87	23.90
15	23.98	24.60	24.02	23.91		



FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 116 of 319	

Channel	Ratio	Linear Sum	QPSK	16QAM	64QAM	256QAM
Low	LTE:5 NR:5	Total MIMO Conducted Power (mW/MHz)	3943.57	4653.06	3939.39	3922.19
		Total MIMO Conducted Power (dBm/MHz)	35.96	36.68	35.95	35.94
		Ant. Gain (dBi)	21.40	21.40	21.40	21.40
		MIMO e.i.r.p (dBm/MHz)	57.36	58.08	57.35	57.34
		e.i.r.p Limit(dBm/MHz)	62.15	62.15	62.15	62.15
		Margin (dB)	-4.79	-4.07	-4.79	-4.81
Middle		Total MIMO Conducted Power (mW/MHz)	3962.43	4619.35	3894.19	3870.41
		Total MIMO Conducted Power (dBm/MHz)	35.98	36.65	35.90	35.88
		Ant. Gain (dBi)	21.40	21.40	21.40	21.40
		MIMO e.i.r.p (dBm/MHz)	57.38	58.05	57.30	57.28
		e.i.r.p Limit(dBm/MHz)	62.15	62.15	62.15	62.15
		Margin (dB)	-4.77	-4.10	-4.84	-4.87
High		Total MIMO Conducted Power (mW/MHz)	3972.52	4651.98	3950.14	3923.69
		Total MIMO Conducted Power (dBm/MHz)	35.99	36.68	35.97	35.94
		Ant. Gain (dBi)	21.40	21.40	21.40	21.40
		MIMO e.i.r.p (dBm/MHz)	57.39	58.08	57.37	57.34
		e.i.r.p Limit(dBm/MHz)	62.15	62.15	62.15	62.15
		Margin (dB)	-4.76	-4.07	-4.78	-4.81

Table 8-46. Peak Power Spectral Density Table (AWS_DSS_1C_20M+ LTE_2C_15M+15M)



FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 117 of 319	

Channel	Ratio	Port	PSD (dBm/MHz)			
			QPSK	16QAM	64QAM	256QAM
Low		0	27.92	28.58	27.86	27.90
		1	27.82	28.44	27.67	27.70
		2	27.64	28.42	27.64	27.74
		3	27.80	28.65	27.81	27.82
		4	27.78	28.35	27.72	27.76
		5	27.84	28.49	27.83	27.85
		6	27.67	28.45	27.59	27.65
		7	27.80	28.32	27.67	27.67
		8	27.75	28.35	27.67	27.72
		9	27.61	28.29	27.68	27.74
		10	27.77	28.42	27.76	27.79
		11	27.83	28.46	27.80	27.83
		12	27.87	28.53	27.89	27.89
		13	27.83	28.50	27.76	27.81
		14	27.68	28.41	27.64	27.68
15	27.76	28.42	27.62	27.65		
Middle	LTE:5 NR:5	0	28.00	28.55	27.83	27.86
		1	27.68	28.28	27.60	27.59
		2	27.58	28.14	27.58	27.49
		3	27.80	28.41	27.64	27.83
		4	27.65	28.22	27.65	27.68
		5	27.78	28.37	27.69	27.82
		6	27.60	28.25	27.51	27.63
		7	27.70	28.27	27.65	27.67
		8	27.72	28.33	27.74	27.70
		9	27.58	28.21	27.59	27.54
		10	27.64	28.20	27.53	27.63
		11	27.76	28.35	27.69	27.69
		12	27.73	28.32	27.70	27.67
		13	27.74	28.18	27.63	27.67
		14	27.65	28.25	27.61	27.56
15	27.63	28.25	27.57	27.58		
High		0	27.98	28.54	27.88	27.91
		1	27.81	28.25	27.71	27.75
		2	27.70	28.21	27.60	27.66
		3	27.82	28.42	27.78	27.82
		4	27.68	28.27	27.66	27.70
		5	27.68	28.29	27.83	27.79
		6	27.81	28.30	27.78	27.75
		7	27.72	28.32	27.74	27.74
		8	27.81	28.45	27.72	27.82
		9	27.64	28.18	27.59	27.58
		10	27.69	28.29	27.66	27.72
		11	27.85	28.43	27.81	27.82
		12	27.85	28.19	27.76	27.78
		13	27.70	28.34	27.63	27.72
		14	27.73	28.18	27.74	27.72
15	27.72	28.31	27.68	27.70		



FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 118 of 319	

Channel	Ratio	Linear Sum	QPSK	16QAM	64QAM	256QAM
Low	LTE:5 NR:5	Total MIMO Conducted Power (mW/MHz)	9583.75	11177.12	9476.68	9558.68
		Total MIMO Conducted Power (dBm/MHz)	39.82	40.48	39.77	39.80
		Ant. Gain (dBi)	21.40	21.40	21.40	21.40
		MIMO e.i.r.p (dBm/MHz)	61.22	61.88	61.17	61.20
		e.i.r.p Limit(dBm/MHz)	62.15	62.15	62.15	62.15
		Margin (dB)	-0.93	-0.27	-0.98	-0.94
Middle		Total MIMO Conducted Power (mW/MHz)	9431.70	10783.16	9288.24	9341.45
		Total MIMO Conducted Power (dBm/MHz)	39.75	40.33	39.68	39.70
		Ant. Gain (dBi)	21.40	21.40	21.40	21.40
		MIMO e.i.r.p (dBm/MHz)	61.15	61.73	61.08	61.10
		e.i.r.p Limit(dBm/MHz)	62.15	62.15	62.15	62.15
		Margin (dB)	-1.00	-0.42	-1.07	-1.04
High		Total MIMO Conducted Power (mW/MHz)	9556.13	10846.68	9471.75	9525.38
		Total MIMO Conducted Power (dBm/MHz)	39.80	40.35	39.76	39.79
		Ant. Gain (dBi)	21.40	21.40	21.40	21.40
		MIMO e.i.r.p (dBm/MHz)	61.20	61.75	61.16	61.19
		e.i.r.p Limit(dBm/MHz)	62.15	62.15	62.15	62.15
		Margin (dB)	-0.95	-0.40	-0.98	-0.96

Table 8-47. Peak Power Spectral Density Table (AWS_DSS_1C_15M+ NR_1C_5M)



FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 119 of 319	

Channel	Ratio	Port	PSD (dBm/MHz)			
			QPSK	16QAM	64QAM	256QAM
Low		0	23.85	23.91	23.76	23.82
		1	23.70	23.92	23.60	23.66
		2	23.63	23.82	23.70	23.55
		3	23.86	24.11	23.75	23.74
		4	23.70	23.81	23.71	23.62
		5	23.87	23.98	23.78	23.87
		6	23.60	23.81	23.55	23.53
		7	23.70	23.78	23.66	23.64
		8	23.73	23.86	23.68	23.69
		9	23.63	23.83	23.55	23.51
		10	23.65	23.96	23.72	23.64
		11	23.81	23.97	23.72	23.69
		12	23.81	24.02	23.80	23.75
		13	23.72	23.89	23.76	23.70
		14	23.63	23.87	23.57	23.67
15	23.65	23.88	23.57	23.58		
Middle	LTE:5 NR:5	0	23.93	23.93	23.81	23.84
		1	23.69	23.79	23.67	23.66
		2	23.64	23.74	23.53	23.59
		3	23.77	24.07	23.70	23.68
		4	23.62	23.86	23.61	23.62
		5	23.77	24.06	23.70	23.72
		6	23.69	23.75	23.58	23.65
		7	23.74	23.92	23.63	23.64
		8	23.82	23.82	23.76	23.62
		9	23.71	23.81	23.56	23.58
		10	23.65	23.87	23.60	23.59
		11	23.73	23.89	23.65	23.70
		12	23.74	23.93	23.66	23.68
		13	23.68	23.85	23.65	23.66
		14	23.64	23.82	23.56	23.62
15	23.62	23.87	23.58	23.59		
High		0	24.10	24.05	23.81	23.87
		1	23.76	23.76	23.64	23.70
		2	23.74	23.66	23.66	23.58
		3	23.76	23.86	23.72	23.76
		4	23.79	23.89	23.68	23.64
		5	23.71	23.93	23.70	23.66
		6	23.78	23.74	23.62	23.72
		7	23.81	23.86	23.72	23.74
		8	23.71	23.78	23.63	23.66
		9	23.62	23.64	23.54	23.55
		10	23.75	23.80	23.60	23.68
		11	23.74	23.85	23.66	23.72
		12	23.80	23.93	23.65	23.72
		13	23.73	23.81	23.57	23.58
		14	23.77	23.73	23.58	23.67
15	23.75	23.75	23.60	23.71		



FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 120 of 319	

Channel	Ratio	Linear Sum	QPSK	16QAM	64QAM	256QAM
Low	LTE:5 NR:5	Total MIMO Conducted Power (mW/MHz)	3769.32	3929.40	3733.78	3722.41
		Total MIMO Conducted Power (dBm/MHz)	35.76	35.94	35.72	35.71
		Ant. Gain (dBi)	21.40	21.40	21.40	21.40
		MIMO e.i.r.p (dBm/MHz)	57.16	57.34	57.12	57.11
		e.i.r.p Limit(dBm/MHz)	62.15	62.15	62.15	62.15
		Margin (dB)	-4.99	-4.81	-5.03	-5.04
Middle		Total MIMO Conducted Power (mW/MHz)	3764.42	3905.75	3701.61	3710.21
		Total MIMO Conducted Power (dBm/MHz)	35.76	35.92	35.68	35.69
		Ant. Gain (dBi)	21.40	21.40	21.40	21.40
		MIMO e.i.r.p (dBm/MHz)	57.16	57.32	57.08	57.09
		e.i.r.p Limit(dBm/MHz)	62.15	62.15	62.15	62.15
		Margin (dB)	-4.99	-4.83	-5.06	-5.05
High		Total MIMO Conducted Power (mW/MHz)	3812.03	3851.85	3706.71	3737.70
		Total MIMO Conducted Power (dBm/MHz)	35.81	35.86	35.69	35.73
		Ant. Gain (dBi)	21.40	21.40	21.40	21.40
		MIMO e.i.r.p (dBm/MHz)	57.21	57.26	57.09	57.13
		e.i.r.p Limit(dBm/MHz)	62.15	62.15	62.15	62.15
		Margin (dB)	-4.94	-4.89	-5.06	-5.02

Table 8-48. Peak Power Spectral Density Table (AWS_DSS_1C_20M+ NR_2C_15M+15M)



FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 121 of 319	

Channel	Ratio	Port	PSD (dBm/MHz)			
			QPSK	16QAM	64QAM	256QAM
Low		0	28.03	28.08	27.94	27.98
		1	27.88	27.82	27.85	27.83
		2	27.83	27.75	27.70	27.77
		3	28.00	28.05	27.92	27.91
		4	27.78	27.81	27.78	27.83
		5	27.97	28.02	27.96	27.92
		6	27.72	27.71	27.63	27.67
		7	27.80	27.80	27.78	27.76
		8	27.83	27.81	27.83	27.82
		9	27.78	27.69	27.77	27.75
		10	27.92	27.86	27.82	27.81
		11	27.92	27.87	27.83	27.96
		12	27.96	28.01	27.97	28.00
		13	27.90	27.88	27.96	27.88
		14	27.77	27.76	27.76	27.74
Middle	LTE:5 NR:5	15	27.84	27.75	27.79	27.72
		0	27.96	28.16	27.93	27.98
		1	27.72	27.94	27.68	27.63
		2	27.69	27.81	27.54	27.59
		3	27.84	28.03	27.70	27.76
		4	27.66	27.89	27.60	27.66
		5	27.88	28.00	27.75	27.79
		6	27.64	27.82	27.48	27.57
		7	27.79	27.90	27.70	27.74
		8	27.80	28.00	27.73	27.78
		9	27.65	27.78	27.58	27.60
		10	27.70	27.84	27.60	27.65
		11	27.90	28.01	27.82	27.79
		12	27.77	28.05	27.77	27.71
		13	27.77	27.96	27.71	27.66
High		14	27.75	27.91	27.68	27.58
		15	27.71	27.88	27.63	27.58
		0	28.11	28.16	27.99	28.00
		1	27.79	28.07	27.68	27.87
		2	27.79	27.94	27.64	27.70
		3	27.90	28.05	27.85	27.91
		4	27.72	27.98	27.75	27.68
		5	27.79	28.00	27.79	27.72
		6	27.76	27.96	27.83	27.74
		7	28.00	28.04	27.81	27.90
		8	27.81	27.99	27.77	27.77
		9	27.63	27.84	27.63	27.65
		10	27.80	27.92	27.71	27.75
		11	27.91	27.96	27.83	27.86
		12	27.82	28.07	27.92	27.83
13	27.77	27.96	27.73	27.71		
14	27.90	28.00	27.70	27.73		
15	27.78	27.91	27.69	27.73		



FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 122 of 319	

Channel	Ratio	Linear Sum	QPSK	16QAM	64QAM	256QAM
Low	LTE:5 NR:5	Total MIMO Conducted Power (mW/MHz)	9798.89	9763.84	9709.70	9717.55
		Total MIMO Conducted Power (dBm/MHz)	39.91	39.90	39.87	39.88
		Ant. Gain (dBi)	21.40	21.40	21.40	21.40
		MIMO e.i.r.p (dBm/MHz)	61.31	61.30	61.27	61.28
		e.i.r.p Limit(dBm/MHz)	62.15	62.15	62.15	62.15
		Margin (dB)	-0.84	-0.85	-0.88	-0.87
Middle		Total MIMO Conducted Power (mW/MHz)	9563.23	9947.33	9383.65	9406.15
		Total MIMO Conducted Power (dBm/MHz)	39.81	39.98	39.72	39.73
		Ant. Gain (dBi)	21.40	21.40	21.40	21.40
		MIMO e.i.r.p (dBm/MHz)	61.21	61.38	61.12	61.13
		e.i.r.p Limit(dBm/MHz)	62.15	62.15	62.15	62.15
		Margin (dB)	-0.94	-0.77	-1.02	-1.01
High		Total MIMO Conducted Power (mW/MHz)	9709.29	10071.67	9575.62	9607.25
		Total MIMO Conducted Power (dBm/MHz)	39.87	40.03	39.81	39.83
		Ant. Gain (dBi)	21.40	21.40	21.40	21.40
		MIMO e.i.r.p (dBm/MHz)	61.27	61.43	61.21	61.23
		e.i.r.p Limit(dBm/MHz)	62.15	62.15	62.15	62.15
		Margin (dB)	-0.88	-0.72	-0.94	-0.92

Table 8-49. Peak Power Spectral Density Table (AWS_DSS_1C_10M+LTE_1C_5M+NR_1C_5M)



FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 123 of 319	

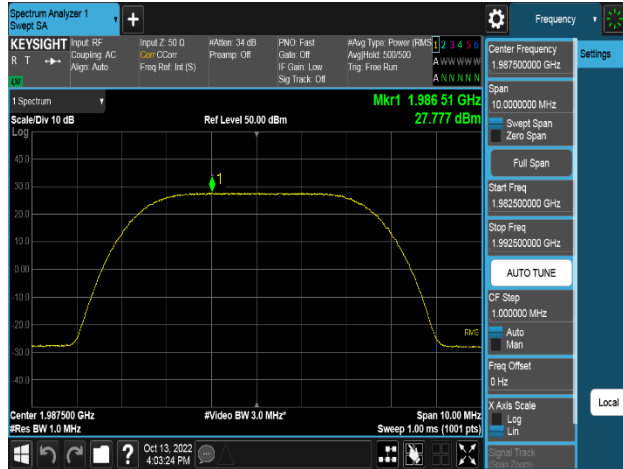
Channel	Ratio	Port	PSD (dBm/MHz)			
			QPSK	16QAM	64QAM	256QAM
Low		0	23.94	24.56	23.85	23.91
		1	23.62	24.30	23.63	23.58
		2	23.56	24.24	23.56	23.49
		3	23.76	24.26	23.63	23.67
		4	23.60	24.25	23.50	23.50
		5	23.75	24.55	23.69	23.67
		6	23.53	24.15	23.47	23.49
		7	23.61	24.47	23.60	23.63
		8	23.72	24.34	23.67	23.64
		9	23.55	24.14	23.58	23.46
		10	23.64	24.30	23.52	23.50
		11	23.88	24.44	23.62	23.58
		12	23.68	24.36	23.61	23.56
		13	23.60	24.28	23.60	23.52
		14	23.62	24.53	23.54	23.55
15	23.58	24.22	23.46	23.50		
Middle	LTE:5 NR:5	0	24.01	24.71	23.95	23.96
		1	23.82	24.55	23.82	23.75
		2	23.76	24.40	23.72	23.67
		3	23.84	24.60	23.79	23.76
		4	23.77	24.52	23.75	23.77
		5	23.88	24.54	23.89	23.83
		6	23.76	24.69	23.80	23.68
		7	23.87	24.64	23.78	23.84
		8	23.84	24.68	23.75	23.84
		9	23.68	24.54	23.67	23.65
		10	23.72	24.46	23.72	23.62
		11	23.76	24.52	23.74	23.70
		12	23.78	24.58	23.81	23.77
		13	23.81	24.54	23.78	23.74
		14	23.76	24.41	23.81	23.62
15	23.76	24.61	23.74	23.67		
High		0	24.10	24.83	23.98	24.08
		1	23.92	24.52	23.80	23.89
		2	23.77	24.43	23.71	23.76
		3	23.82	24.60	23.86	23.89
		4	23.92	24.41	23.82	23.82
		5	23.88	24.72	23.85	23.87
		6	23.80	24.59	23.83	23.79
		7	23.88	24.64	23.95	23.90
		8	23.94	24.55	23.86	23.85
		9	23.72	24.36	23.71	23.62
		10	23.76	24.47	23.79	23.78
		11	23.85	24.62	23.82	23.86
		12	23.86	24.63	23.86	23.89
		13	23.75	24.40	23.74	23.80
		14	23.86	24.35	23.73	23.96
15	23.80	24.46	23.83	23.78		

FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 124 of 319	

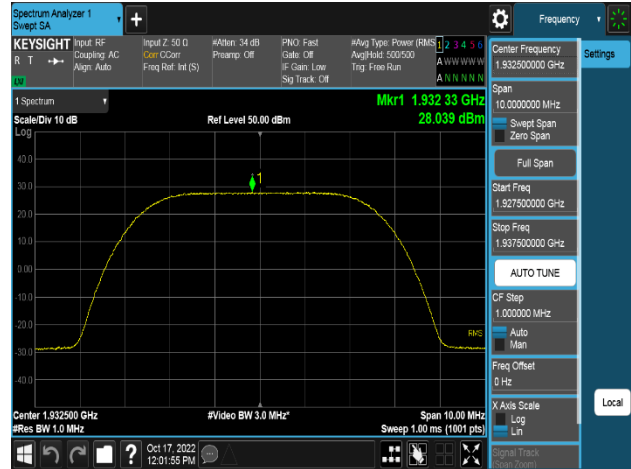
Channel	Ratio	Linear Sum	QPSK	16QAM	64QAM	256QAM
Low	LTE:5 NR:5	Total MIMO Conducted Power (mW/MHz)	3722.00	4344.73	3663.12	3648.54
		Total MIMO Conducted Power (dBm/MHz)	35.71	36.38	35.64	35.62
		Ant. Gain (dBi)	21.40	21.40	21.40	21.40
		MIMO e.i.r.p (dBm/MHz)	57.11	57.78	57.04	57.02
		e.i.r.p Limit(dBm/MHz)	62.15	62.15	62.15	62.15
		Margin (dB)	-5.04	-4.37	-5.11	-5.13
Middle		Total MIMO Conducted Power (mW/MHz)	3838.39	4575.23	3823.07	3787.61
		Total MIMO Conducted Power (dBm/MHz)	35.84	36.60	35.82	35.78
		Ant. Gain (dBi)	21.40	21.40	21.40	21.40
		MIMO e.i.r.p (dBm/MHz)	57.24	58.00	57.22	57.18
		e.i.r.p Limit(dBm/MHz)	62.15	62.15	62.15	62.15
		Margin (dB)	-4.91	-4.14	-4.92	-4.96
High		Total MIMO Conducted Power (mW/MHz)	3885.05	4547.30	3857.04	3880.28
		Total MIMO Conducted Power (dBm/MHz)	35.89	36.58	35.86	35.89
		Ant. Gain (dBi)	21.40	21.40	21.40	21.40
		MIMO e.i.r.p (dBm/MHz)	57.29	57.98	57.26	57.29
		e.i.r.p Limit(dBm/MHz)	62.15	62.15	62.15	62.15
		Margin (dB)	-4.85	-4.17	-4.89	-4.86

Table 8-50. Peak Power Spectral Density Table (AWS_DSS_1C_20M+LTE_1C_15M+NR_1C_15M)

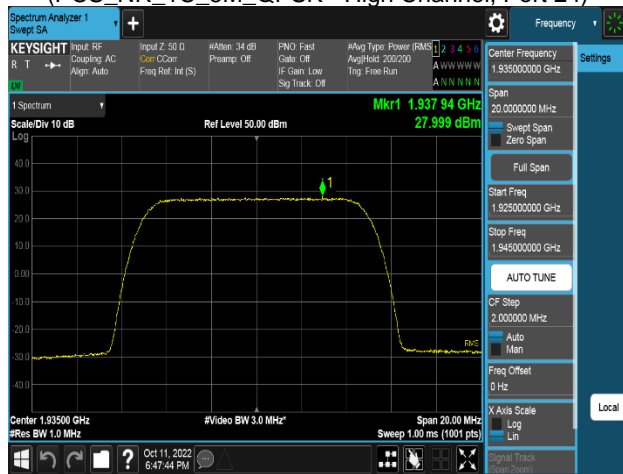
FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 125 of 319	



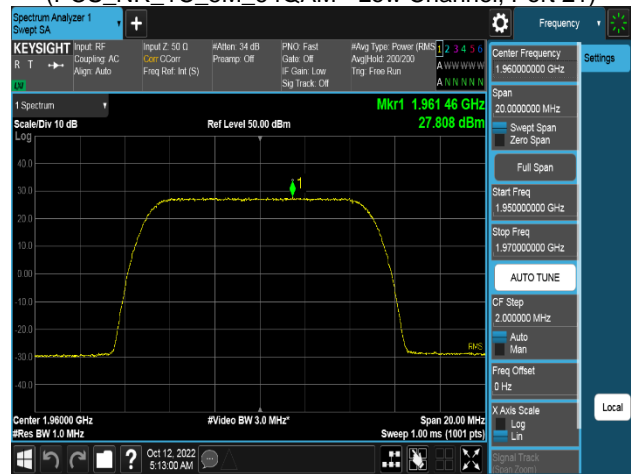
Plot 8-37. Power Spectral Density Plot
(PCS_NR_1C_5M_QPSK - High Channel, Port 24)



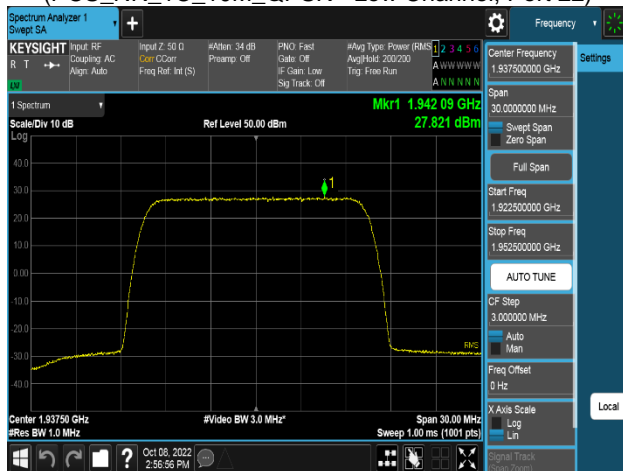
Plot 8-38. Power Spectral Density Plot
(PCS_NR_1C_5M_64QAM - Low Channel, Port 21)



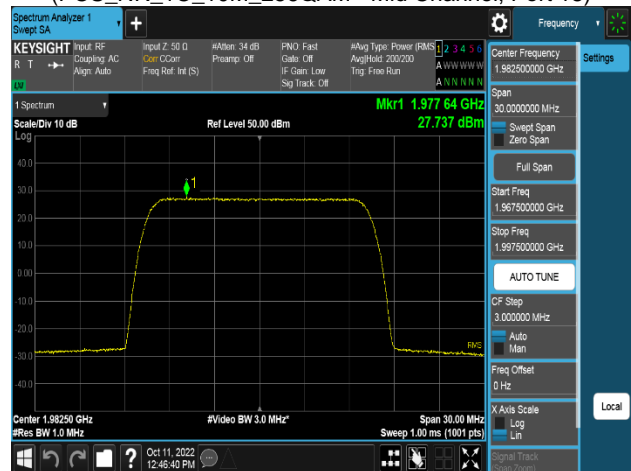
Plot 8-39. Power Spectral Density Plot
(PCS_NR_1C_10M_QPSK - Low Channel, Port 22)



Plot 8-40. Power Spectral Density Plot
(PCS_NR_1C_10M_256QAM - Mid Channel, Port 18)

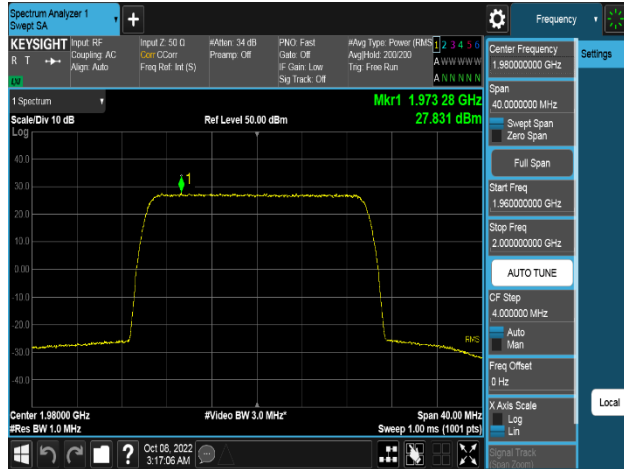


Plot 8-41. Power Spectral Density Plot
(PCS_NR_1C_15M_QPSK - Low Channel, Port 22)

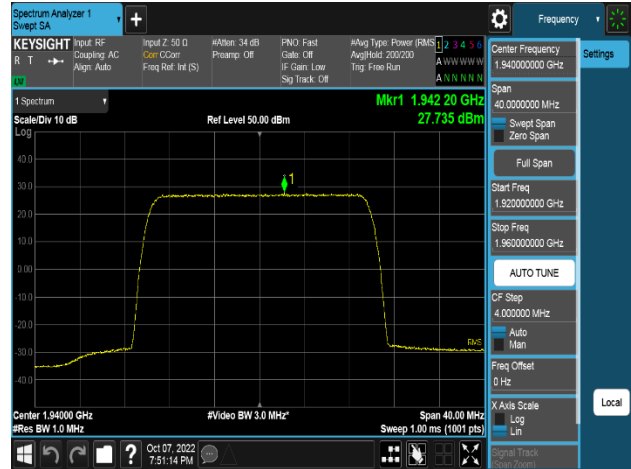


Plot 8-42. Power Spectral Density Plot
(PCS_NR_1C_15M_256QAM - High Channel, Port 31)

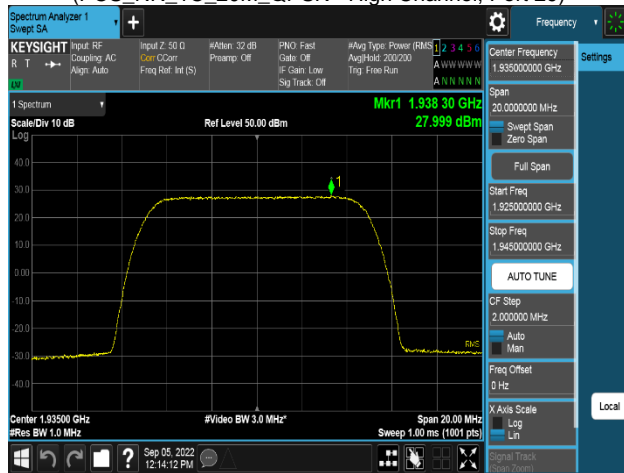
FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)		Page 126 of 319



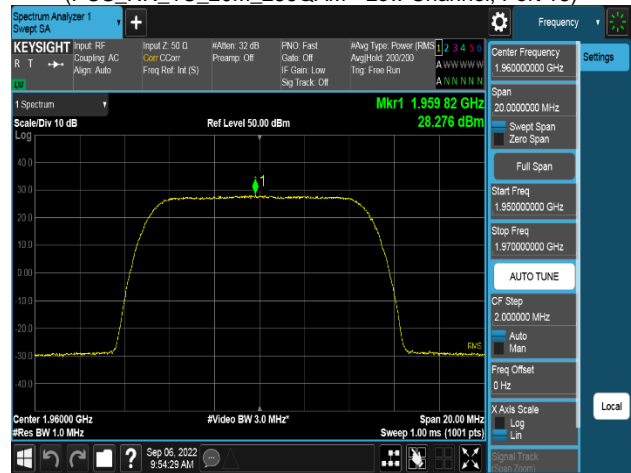
Plot 8-43. Power Spectral Density Plot
(PCS_NR_1C_20M_QPSK - High Channel, Port 29)



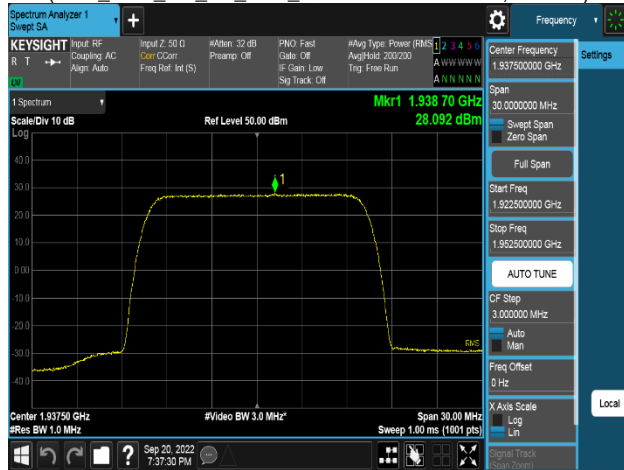
Plot 8-44. Power Spectral Density Plot
(PCS_NR_1C_20M_256QAM - Low Channel, Port 18)



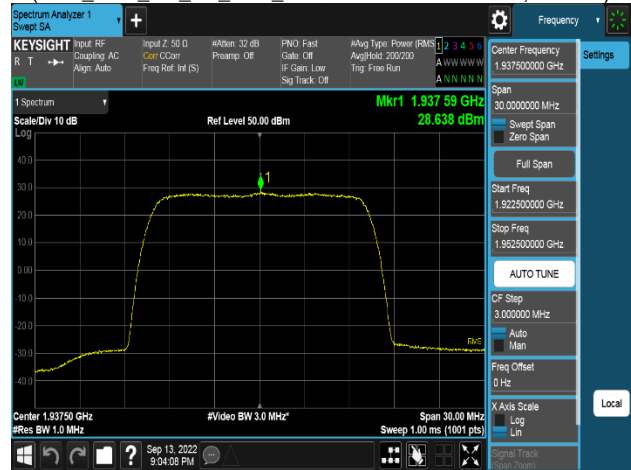
Plot 8-45. Power Spectral Density Plot
(PCS_DSS_5:5_1C_10M_QPSK - Low Channel, Port 25)



Plot 8-46. Power Spectral Density Plot
(PCS_DSS_5:5_1C_10M_16QAM - Middle Channel, Port 28)

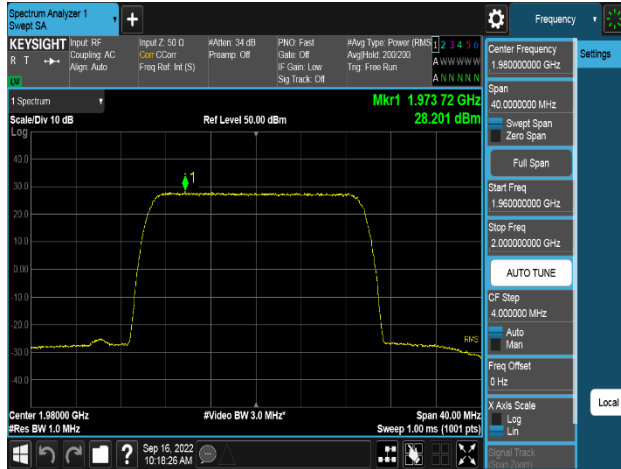


Plot 8-47. Power Spectral Density Plot
(PCS_DSS_5:5_1C_15M_QPSK - Low Channel, Port 31)

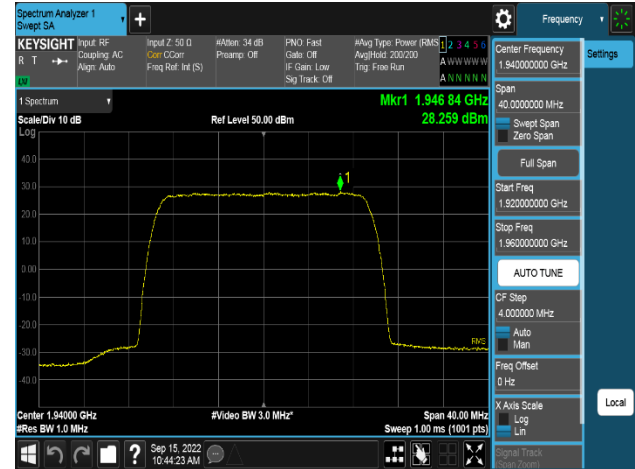


Plot 8-48. Power Spectral Density Plot
(PCS_DSS_5:5_1C_15M_16QAM - Low Channel, Port 21)

FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)		Page 127 of 319



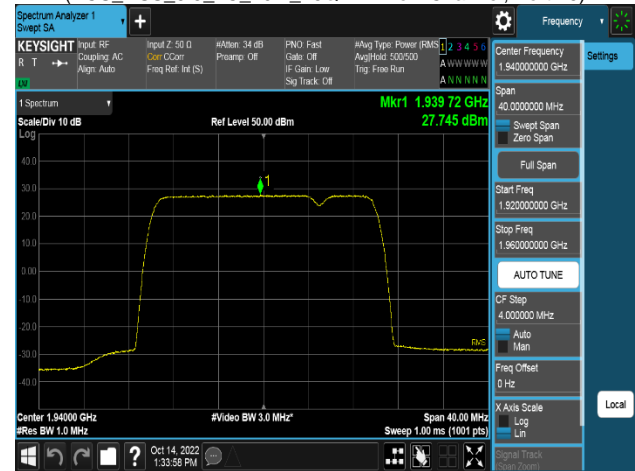
Plot 8-49. Power Spectral Density Plot
(PCS_DSS_5:5_1C_20M_QPSK - High Channel, Port 24)



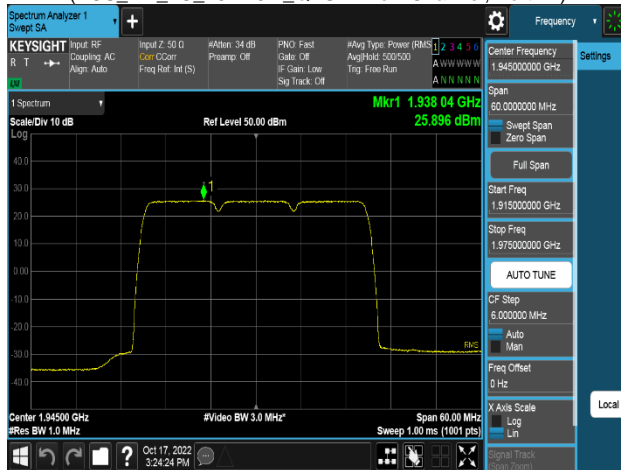
Plot 8-50. Power Spectral Density Plot
(PCS_DSS_5:5_1C_20M_16QAM - Low Channel, Port 26)



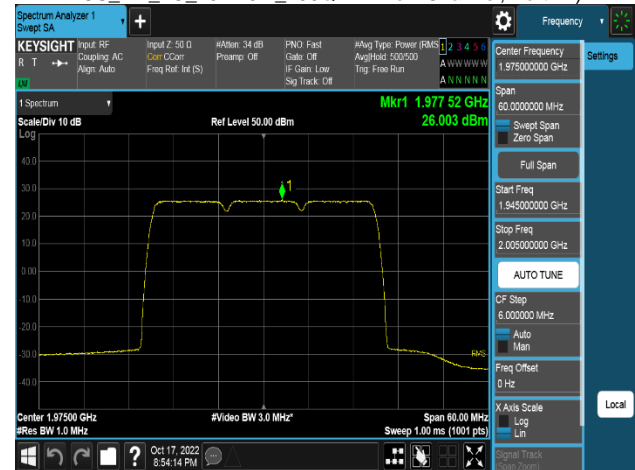
Plot 8-51. Power Spectral Density Plot
(PCS_NR_2C_15M+5M_QPSK - Low Channel, Port 21)



Plot 8-52. Power Spectral Density Plot
(PCS_NR_2C_15M+5M_256QAM - Low Channel, Port 21)

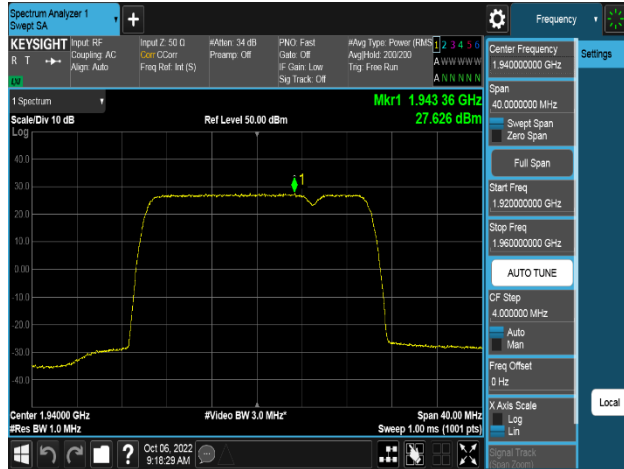


Plot 8-53. Power Spectral Density Plot
(PCS_NR_3C_10M+10M+10M_QPSK - Low Channel, Port 16)

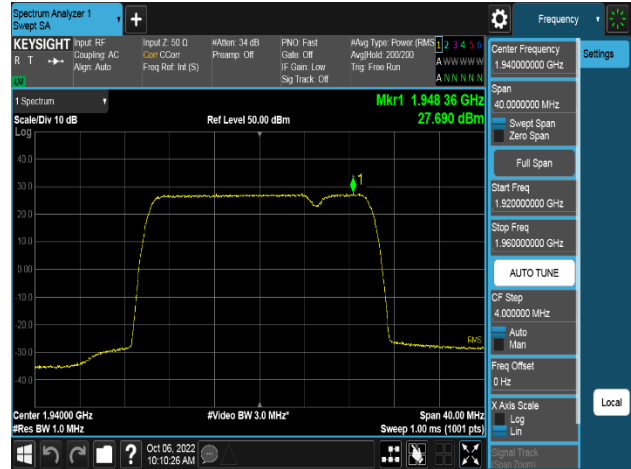


Plot 8-54. Power Spectral Density Plot
(PCS_NR_3C_10M+10M+10M_64QAM - High Channel, Port 18)

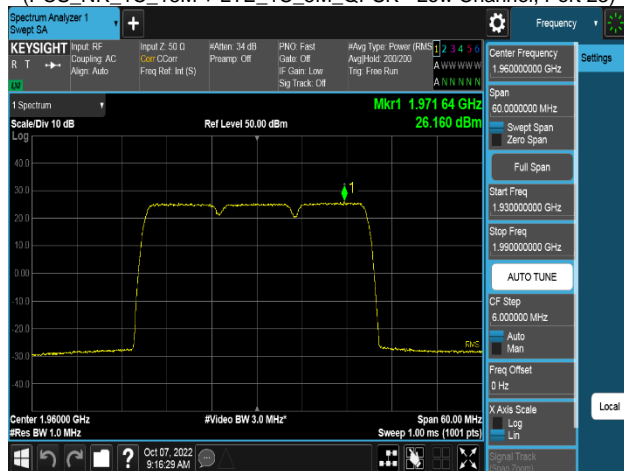
FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)		Page 128 of 319



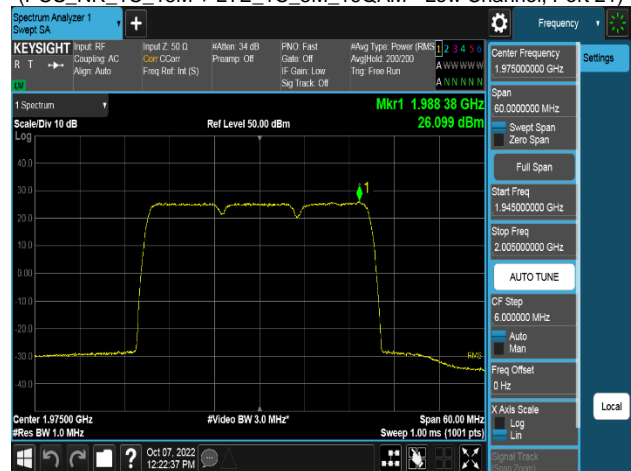
Plot 8-55. Power Spectral Density Plot
(PCS_NR_1C_15M + LTE_1C_5M_QPSK - Low Channel, Port 23)



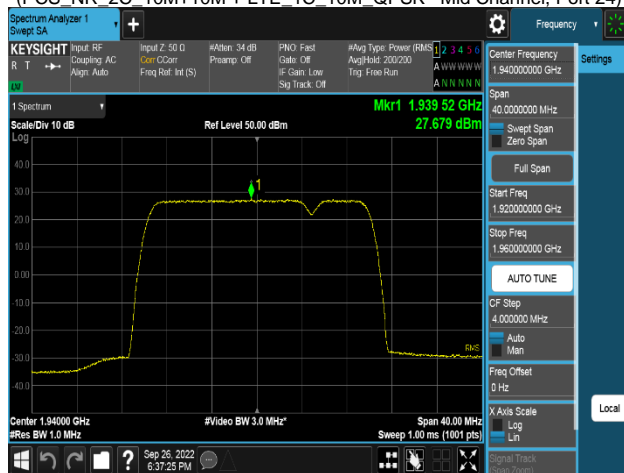
Plot 8-56. Power Spectral Density Plot
(PCS_NR_1C_15M + LTE_1C_5M_16QAM - Low Channel, Port 21)



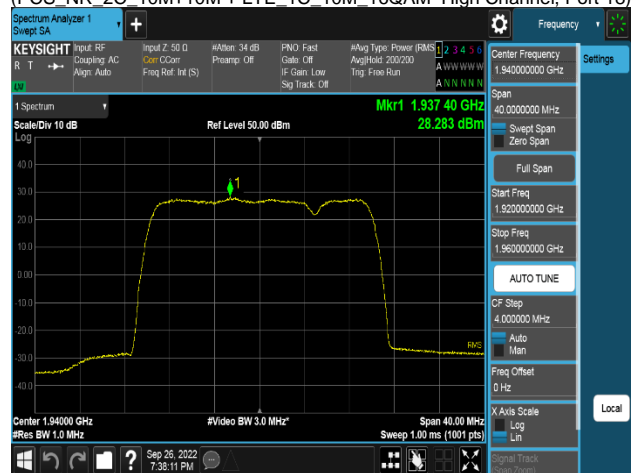
Plot 8-57. Power Spectral Density Plot
(PCS_NR_2C_10M+10M + LTE_1C_10M_QPSK - Mid Channel, Port 24)



Plot 8-58. Power Spectral Density Plot
(PCS_NR_2C_10M+10M + LTE_1C_10M_16QAM - High Channel, Port 18)

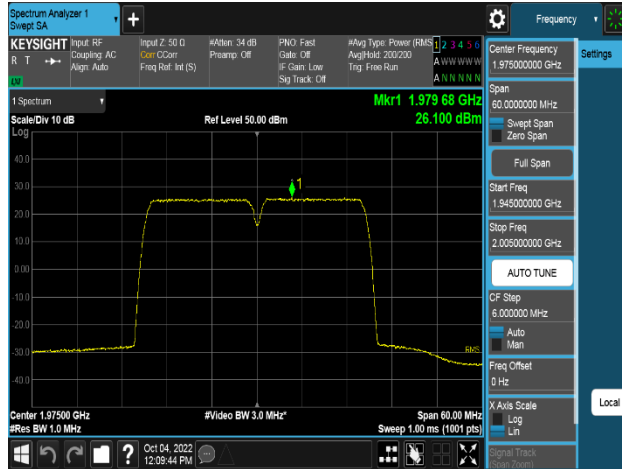


Plot 8-59. Power Spectral Density Plot
(PCS_DSS_1C_15M + LTE_1C_5M_QPSK - Low Channel, Port 16)

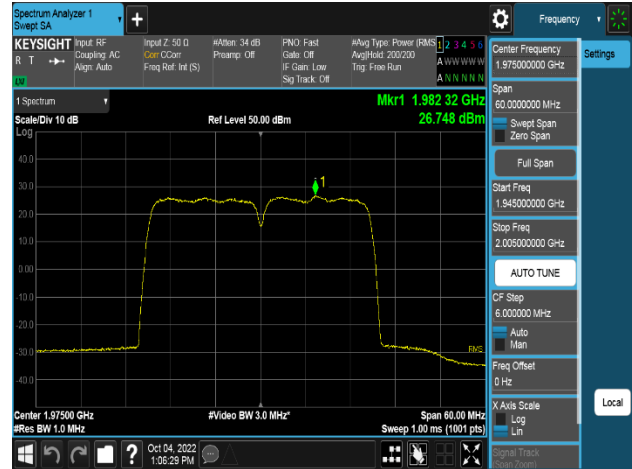


Plot 8-60. Power Spectral Density Plot
(PCS_DSS_1C_15M + LTE_1C_5M_16QAM - Low Channel, Port 29)

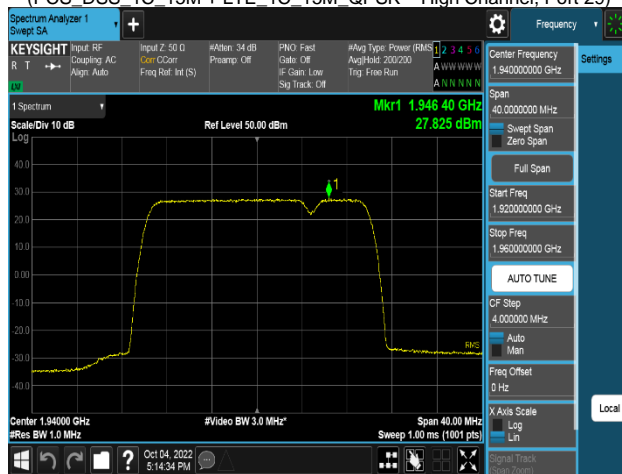
FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)		Page 129 of 319



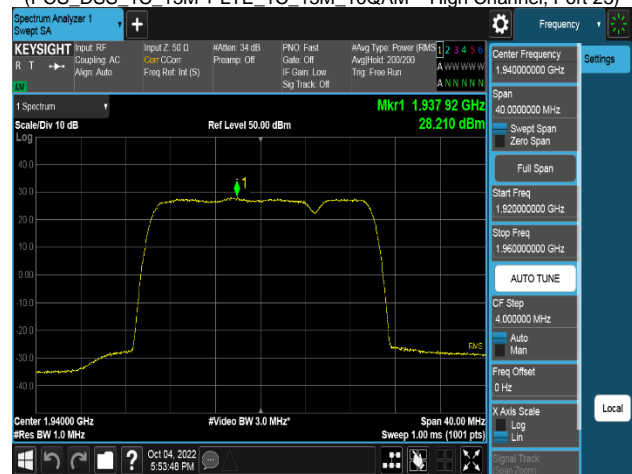
Plot 8-61. Power Spectral Density Plot
(PCS_DSS_1C_15M + LTE_1C_15M_QPSK - High Channel, Port 29)



Plot 8-62. Power Spectral Density Plot
(PCS_DSS_1C_15M + LTE_1C_15M_16QAM - High Channel, Port 23)



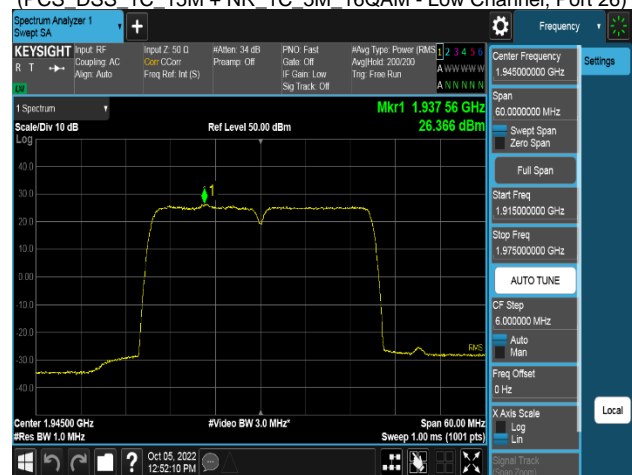
Plot 8-63. Power Spectral Density Plot
(PCS_DSS_1C_15M + NR_1C_5M_QPSK - Low Channel, Port 31)



Plot 8-64. Power Spectral Density Plot
(PCS_DSS_1C_15M + NR_1C_5M_16QAM - Low Channel, Port 26)

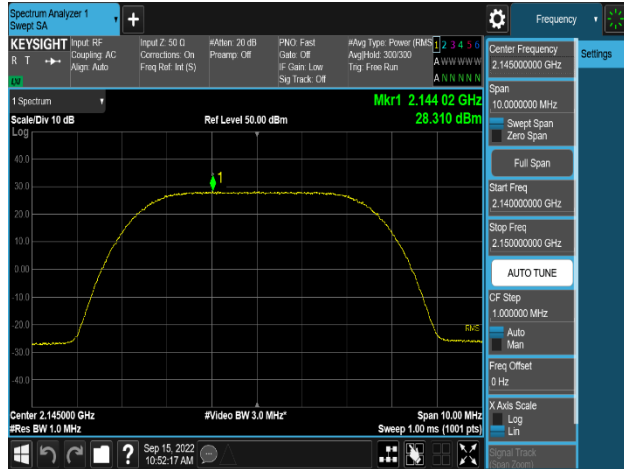


Plot 8-65. Power Spectral Density Plot
(PCS_DSS_1C_15M + NR_1C_15M_QPSK - Low Channel, Port 23)

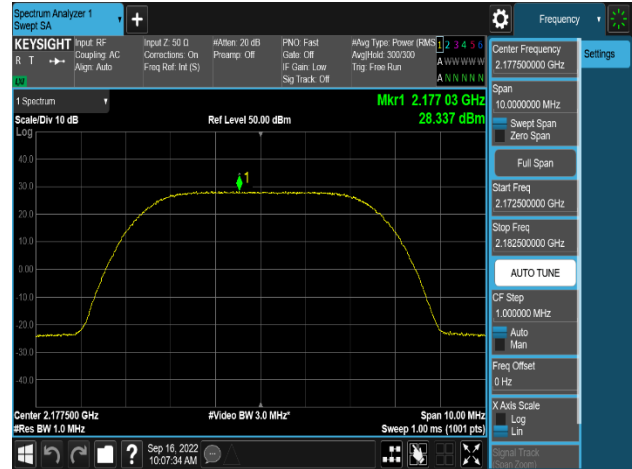


Plot 8-66. Power Spectral Density Plot
(PCS_DSS_1C_15M + NR_1C_15M_16QAM - Low Channel, Port 24)

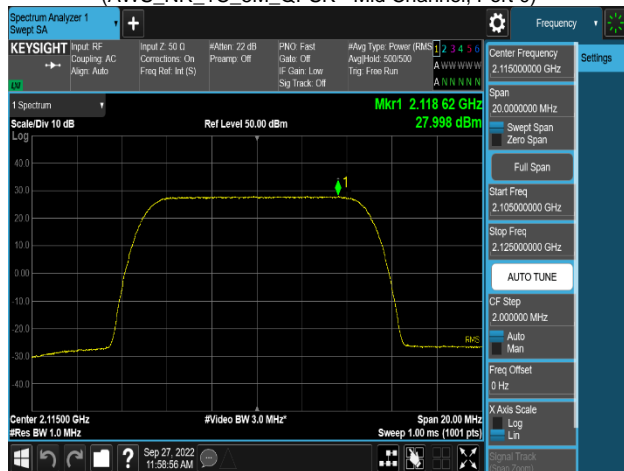
FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)		Page 130 of 319



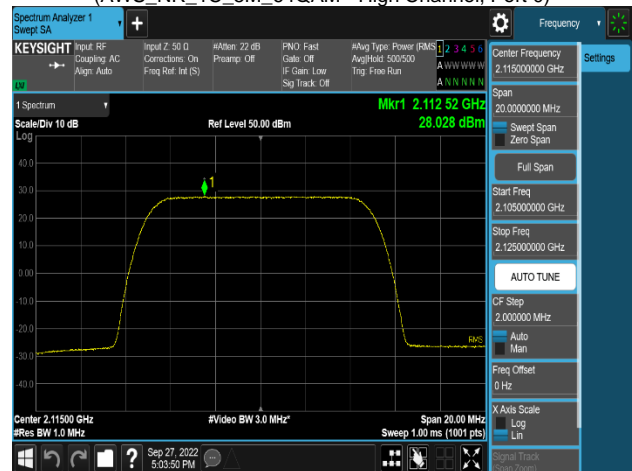
Plot 8-67. Power Spectral Density Plot
(AWS_NR_1C_5M_QPSK - Mid Channel, Port 0)



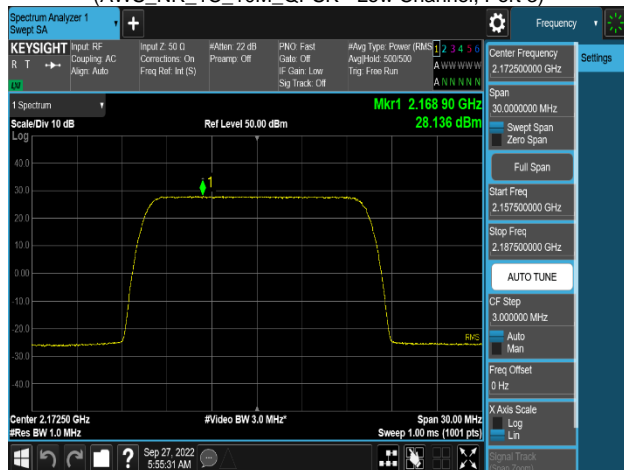
Plot 8-68. Power Spectral Density Plot
(AWS_NR_1C_5M_64QAM - High Channel, Port 0)



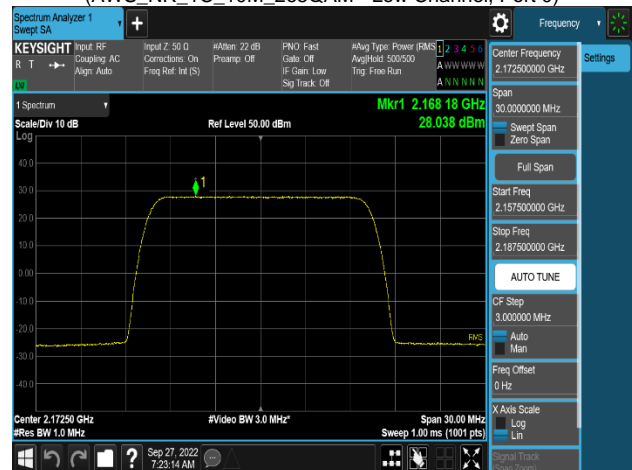
Plot 8-69. Power Spectral Density Plot
(AWS_NR_1C_10M_QPSK - Low Channel, Port 3)



Plot 8-70. Power Spectral Density Plot
(AWS_NR_1C_10M_265QAM - Low Channel, Port 0)



Plot 8-71. Power Spectral Density Plot
(AWS_NR_1C_15M_QPSK - High Channel, Port 0)



Plot 8-72. Power Spectral Density Plot
(AWS_NR_1C_15M_16QAM - High Channel, Port 0)

FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)		Page 131 of 319