

MIMO SAR verification results

FR1 n77/78 MIMO DSI 0			
SISO Ant4 Plimit (dBm)	26.0	SISO Ant4 Pmax (dBm)	26.0
SISO Ant6 Plimit (dBm)	26.0	SISO Ant6 Pmax (dBm)	26.0
Duty Cycle %	100.00	MIMO Pmax (dBm)	21.0
Ptest (dBm)	21.0	Total uncertainty (dB)	1.0
SAR design target (W/kg)	0.95	Back off	0
Measured MIMO Ptest (dBm)	24.08	Measured MIMO SAR at meas. Ptest (W/kg)	0.530
Reported SAR _{MIMO}	0.423	Calc.SAR	0.974

FR1 n77/78 MIMO DSI 1			
SISO Ant4 Plimit (dBm)	18.0	SISO Ant4 Pmax (dBm)	26.0
SISO Ant6 Plimit (dBm)	16.2	SISO Ant6 Pmax (dBm)	26.0
Duty Cycle %	100.00	MIMO Pmax (dBm)	21.0
Ptest (dBm)	16.2	Total uncertainty (dB)	1.0
SAR design target (W/kg)	0.95	Back off	0
Measured MIMO Ptest (dBm)	18.60	Measured MIMO SAR at meas. Ptest (W/kg)	0.836
Reported SAR _{MIMO}	0.780	Calc.SAR	2.559

MIMO SAR Test results

Body SAR Test																				
System & Position									DUT & Accessory		Power							SAR		
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	FR1 n77	100M	QPSK	1	1	CP-30	Front	5mm	Ant 4+6	DSI 1	656000	3840	18.62	20.00	1.374		1.000	0.16	0.793	1.090
															1.000		1.000			0.000
	FR1 n77	100M	QPSK	137	68	CP-30	Front	5mm	Ant 4+6	DSI 1	656000	3840	18.60	20.00	1.380		1.000	-0.02	0.836	1.154
															1.000		1.000			0.000
	FR1 n77	100M	QPSK	1	1	CP-30	Front	22mm	Ant 4+6	DSI 0	656000	3840	24.08	25.00	1.237		1.000	-0.17	0.530	0.656
	FR1 n77	100M	QPSK	1	1	CP-30	Front	22mm	Ant 4+6	DSI 0	633332	3499.98	23.69	25.00	1.352		1.000	-0.16	0.369	0.499
															1.000		1.000			0.000

MIMO SAR conducted power

Part27Q_n77(PC2) Default				Ant 4			Ant 6			Ant 4+6			Tune-up lim (dBm)
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	
Channel				633332			633332			633332			
Frequency (MHz)				3499.98			3499.98			3499.98			
100	QPSK	1	1	21.12			21.01			24.08			
100	QPSK	137	68	20.88			20.95			23.93			25.0

Part270_n77(PC2) Default				Ant 4			Ant 6			Ant 4+6			
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	650000	656000	662000	650000	656000	662000	
Frequency (MHz)				3750	3840	3930	3750	3840	3930	3750	3840	3930	
100	QPSK	1	1	21.02	20.62	20.82	20.95	20.74	21.08	24.00	23.69	23.96	
100	QPSK	137	68	20.86	20.47	20.87	21.05	20.61	20.91	23.97	23.55	23.90	25.0

Part27Q_n78 Default				Ant 4			Ant 6			Ant 4+6			
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dbm)
Channel				633332			633332			633332			
Frequency (MHz)				3499.98			3499.98			3499.98			
100	QPSK	1	1	20.91			20.95			23.94			25.0
100	QPSK	137	68	20.89			20.92			23.92			25.0

Part27O_n78 Default				Ant 4			Ant 6			Ant 4+6			Tune-up limit (dBm)
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	
Channel				650000			650000			650000			
Frequency (MHz)				3750			3750			3750			
100	QPSK	1	1	20.97			21.00			24.00			25.0
100	QPSK	137	68	20.83			20.99			23.92			25.0

Part27Q_n77(PC2) DSI 1				Ant 4			Ant 6			Ant 4+6			
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				633332			633332			633332			
Frequency (MHz)				3499.98			3499.98			3499.98			
100	QPSK	1	1	16.21			16.03			19.13			20.0
100	QPSK	137	68	15.90			15.94			18.93			20.0

Part27O_n77(PC2) DSI 1				Ant 4			Ant 6			Ant 4+6			Tune-up limit (dBm)
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	
Channel				650000	656000	662000	650000	656000	662000	650000	656000	662000	
Frequency (MHz)				3750	3840	3930	3750	3840	3930	3750	3840	3930	
100	QPSK	1	1	16.09	15.62	15.80	16.11	15.60	15.96	15.11	16.62	16.89	20.0
100	QPSK	137	68	15.84	15.48	15.96	16.08	15.70	15.93	16.97	16.60	16.96	20.0

Part27Q_n78 DSI 1				Ant 4			Ant 6			Ant 4+6			Tune-up limit (dBm)
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	
Channel				633332			633332			633332			
Frequency (MHz)				3499.98			3499.98			3499.98			
100	QPSK	1	1	15.89			16.03			16.97			
100	QPSK	137	68	15.88			16.00			16.95			20.0

Part27O_n78 DSI 1				Ant 4			Ant 6			Ant 4+6			Tune-up limit (dBm)
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	
Channel				650000			650000			650000			
Frequency (MHz)				3750			3750			3750			
100	QPSK	1	1	15.98			15.97			18.89			20.0
100	QPSK	137	68	15.81			15.93			18.88			20.0