

Antenna information:	Antenna Name	Model(s)/Type(s)		
	Antenna 0	Model/Part Number:	P35	
		Manufacturer:	Shenzhen ZTX Communication Technology Co., Ltd No. 34 Shilong Road, Bao'an District, Shenzhen, Guangdong Province	
		Frequency Range:	GSM (B2/3/5/8) TRX WCDMA (B1/B2/4/5/6/B19) TRX FDD (B1/2/3/4/5/7/8/12/13/17/19/20/26/28/66) TRX TDD (B38/B40/B41) TRX 5G NR (N1/2/3/5/7/8/20/26/28/38/40/66) TRX	
		Connector Type/	<b>Maximum Gain</b> GSM: B2:-0.7dBi/B3:-0.4dBi/B5:-3.3dBi/B8:-3.2dBi WCDMA: B1: -0.1dBi/B2:-0.7dBi/B4:-0.4dBi/B5:-3.3dBi/B6:-3.2dBi/B19:-3.2dBi FDD: B1:-0.1dBi/B2:-0.7dBi/B3:-0.4dBi/B4:-0.4dBi/B5:-3.3dBi/B7:-0.05dBi/B8:-3.2dBi/B12:-2.4dBi/ B13:-2.7dBi/B17:-2.4dBi/B19:-3.2dBi/B20:-3.3dBi/B26:-3.3dBi/B28:-2.4dBi/B66:-0.4dBi TDD-LTE: B38:-0.07dBi/B40:-0.5dBi/B41:-0.07dBi 5G NR: N1:-0.1dBi/N2:-0.7dBi/N3:-0.4dBi/N5:-3.3dBi/N7:-0.05dBi/N8:-3.2dBi/N20:-3.3dBi/N26:-3.3dBi/ N28:-2.4dBi/N38:-0.07dBi/N40:-0.5dBi/N66:-0.4dBi	
		Maximum Gain		
		Antenna Type/ Pattern:	LOOP	
		Measurement:	47.8*28.5*0.012 mm	

	Antenna 1	Model/Part Number:	<b>P35</b>
		Manufacturer :	Shenzhen ZTX Communication Technology Co., Ltd No.34 Shilong Road, Bao'an District, Shenzhen, Guangdong Province
		Frequency Range:	<b>5G NR N7 PRX MIMO</b> <b>5G NR N41/77/78/79 TRX</b>
		Connector Type/	<b>Maximum Gain</b> <b>5G NR: N7:1.7dBi/N41:1.7dBi/N77:0.7dBi/N78:0.7dBi/N79:0.39dBi</b>
		Maximum Gain	
		Antenna Type/ Pattern:	LOOP
		Measurement:	25.6*15.4*0.012 mm
	Antenna 2	Model/Part Number:	<b>P35</b>
		Manufacturer :	Shenzhen ZTX Communication Technology Co., Ltd No.34 Shilong Road, Bao'an District, Shenzhen, Guangdong Province
		Frequency Range:	<b>WIFI2.4G CH1,5G CH1</b> <b>GPS L5</b>
		Connector Type/	<b>WIFI2.4G CH1:-1.1dBi ,5G CH1:1.3dBi</b> <b>GPS L5:-2.5dBi</b>
		Maximum Gain	
		Antenna Type/ Pattern:	<b>MONOPOLE</b>
Measurement:		30.2*17.7*0.012 mm	

	Antenna 3	Model/Part Number:	<b>P35</b>
		Manufacturer :	Shenzhen ZTX Communication Technology Co., Ltd No.34 Shilong Road, Bao'an District, Shenzhen, Guangdong Province
		Frequency Range:	<b>WIFI2.4G CH0,5G CH0 GPS L1 BT</b>
		Connector Type/	<b>WIFI2.4G CH0:-1dBi ,5G CH0:4dBi GPS L1:-1.1dBi</b>
		Maximum Gain	<b>BT:-1dBi</b>
		Antenna Type/ Pattern:	PIFA
		Measurement:	20.8*19.4*0.012 mm
	Antenna 4	Model/Part Number:	<b>P35</b>
		Manufacturer :	Shenzhen ZTX Communication Technology Co., Ltd No.34 Shilong Road, Bao'an District, Shenzhen, Guangdong Province
		Frequency Range:	<b>GSM (B2/3/5/8) DRX WCDMA (B1/B2/4/5/6/B19) DRX FDD (B1/2/3/4/5/7/8/12/13/17/19/20/26/28/66) DRX TDD (B38/B40/B41) DRX 5G NR (N1/2/3/5/7/8/20/26/28/38/40/66) DRX MIMO</b>

		Connector Type/	<b>Maximum Gain</b> GSM: B2:-0.3dBi/B3:0.5dBi/B5:-4.6dBi/B8:-4.6dBi WCDMA: B1: -1.2dBi/B2:-0.3dBi/B4:-1.2dBi/B5:-4.6dBi/B6:-4.8dBi/B19:-4.8dBi <b>FDD:</b> B1:-0.1dBi/B2:-0.3dBi/B3:0.5dBi/B4:-0.1dBi/B5:-4.6dBi/B7:2.3dBi/B8:-4.6dBi/B12:-5.1dBi/B13:-5.2dBi/ B17:-5.2dBi/B19:-4.8dBi/B20:-5.1dBi/B26:-5.1dBi/B28:-6.2dBi/B66:-0.1dBi <b>TDD-LTE: B38:2.6dBi/B40:1.8dBi/B41:2.5dBi</b> <b>5G NR: N1:-1.2dBi/N2:-0.3dBi/N3:0.5dBi/N5:-4.6dBi/N7:2.3dBi/N8:-4.6dBi/N20:-5.1dBi/N26:-5.1dBi/  N28:-6.2dBi/N38:2.6dBi/N40:1.8dBi/N66:-0.1dBi</b>
		Maximum Gain	
		Antenna Type/Pattern:	LOOP
		Measurement:	36.8*24.5*0.012 mm
		Model/Part Number:	<b>P35</b>
	Antenna 5	Manufacturer :	Shenzhen ZTX Communication Technology Co., Ltd No. 34 Shilong Road, Bao'an District, Shenzhen, Guangdong Province
		Frequency Range:	<b>5G NR N77/78/79 PRX MIMO</b>
		Connector Type/	<b>Maximum Gain</b> 5G NR: N77:2.0dBi/N78:2.1dBi/N79:-0.4dBi
		Maximum Gain	
		Antenna Type/Pattern:	PIFA
	Measurement:	10.8*5.8*0.012 mm	
Antenna 6	Model/Part	<b>P35</b>	

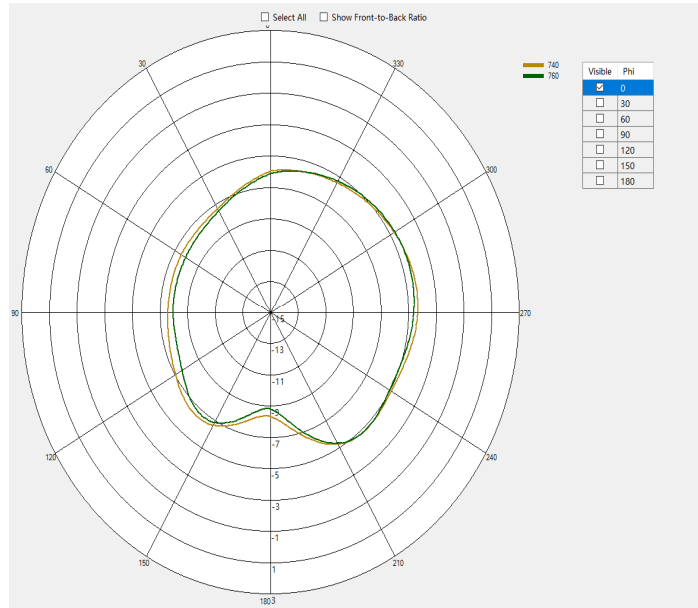
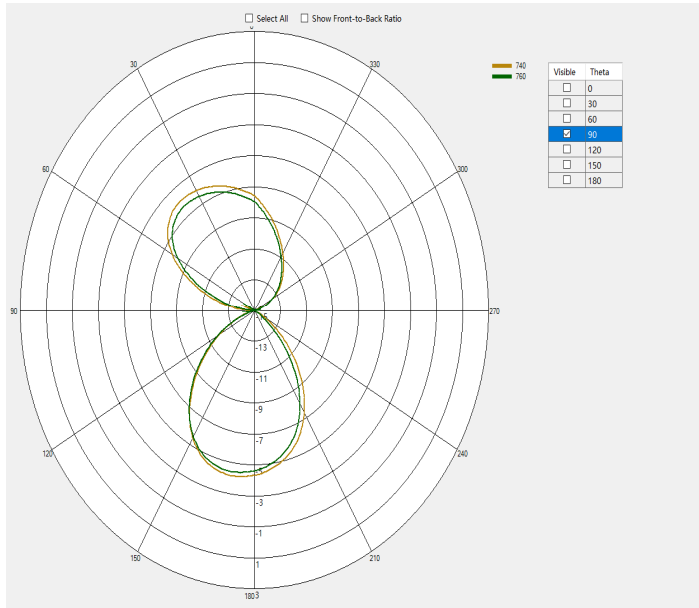
	Antenna 7	Number:	
		Manufacturer:	Shenzhen ZTX Communication Technology Co., Ltd No. 34 Shilong Road, Bao'an District, Shenzhen, Guangdong Province
		Frequency Range:	<b>5G NR N7 DRX MIMO</b> <b>5G NR N41/77/78/79 DRX</b>
		Connector Type/ Maximum Gain	<b>Maximum Gain</b> <b>5G NR: N7:-0.2dBi/N41:-0.3dBi/N77:1.6dBi/N78:1.5dBi/N79:2.2dBi</b>
		Antenna Type/ Pattern:	PIFA
		Measurement:	19.4*17.6*0.012 mm
		Model/Part Number:	<b>P35</b>
	Antenna 8	Manufacturer:	Shenzhen ZTX Communication Technology Co., Ltd No. 34 Shilong Road, Bao'an District, Shenzhen, Guangdong Province
		Frequency Range:	<b>5G NR N41 PRX MIMO</b> <b>5G NR N77/78/79 DRX MIMO</b>
		Connector Type/ Maximum Gain	<b>Maximum Gain</b> <b>5G NR: N41:2.9dBi/N77:3.0dBi/N78:2.8dBi/N79:2.5dBi</b>
		Antenna Type/ Pattern:	PIFA
		Measurement:	28.5*20.1*0.012 mm
		Model/Part Number:	<b>P35</b>
Antenna 8	Manufacturer:	Shenzhen ZTX Communication Technology Co., Ltd No. 34 Shilong Road, Bao'an District, Shenzhen, Guangdong Province	
	Frequency	13.56 MHz	

	Range:	
	Connector Type/	N/A
	Maximum Gain	
	Antenna Type/ Pattern:	FPC
	Measurement:	72.12*45.0 mm

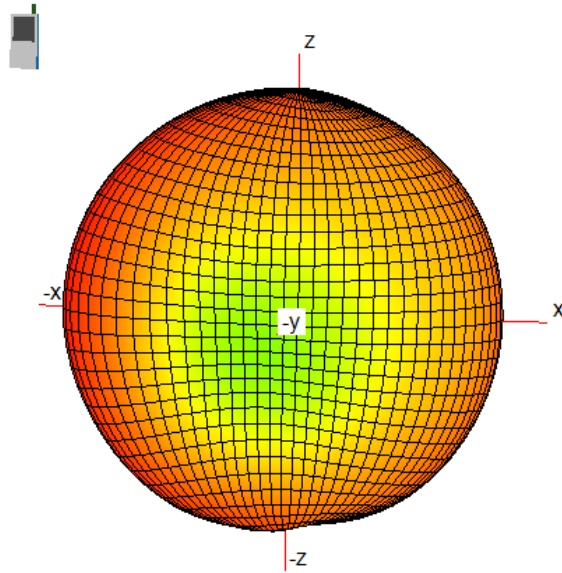
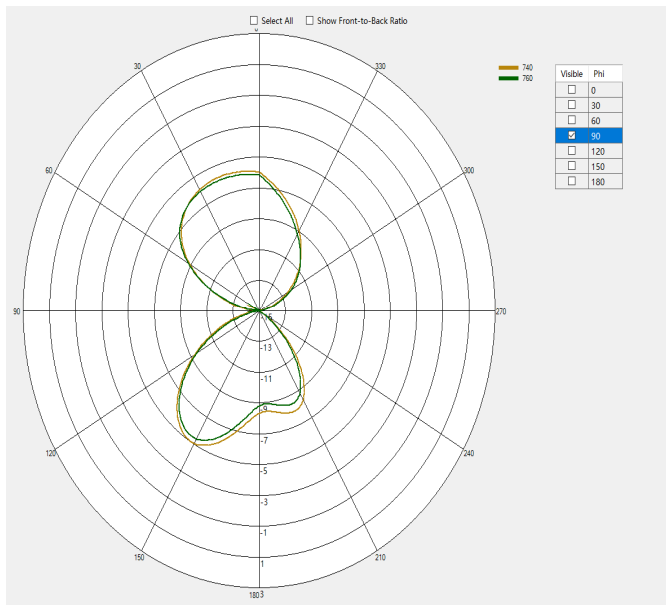


# ANT 0

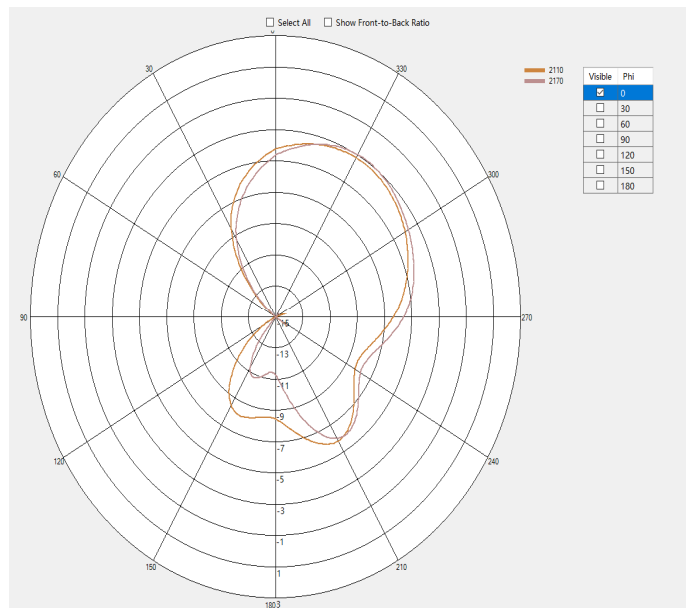
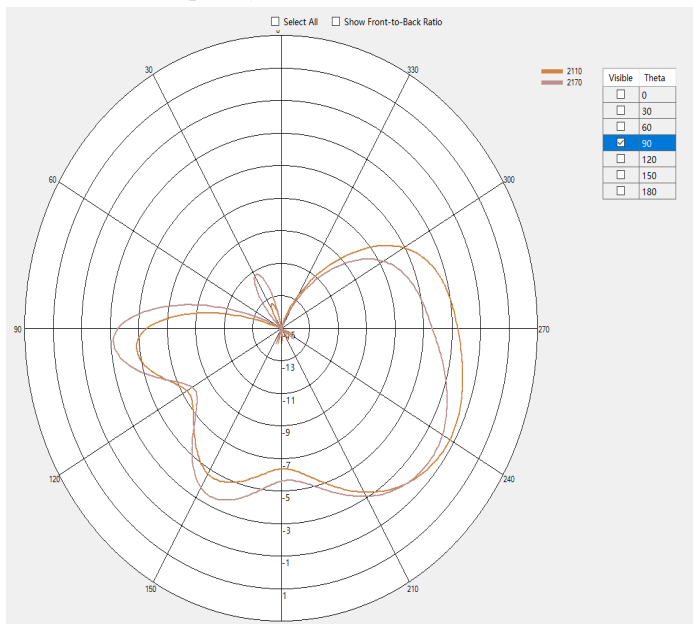
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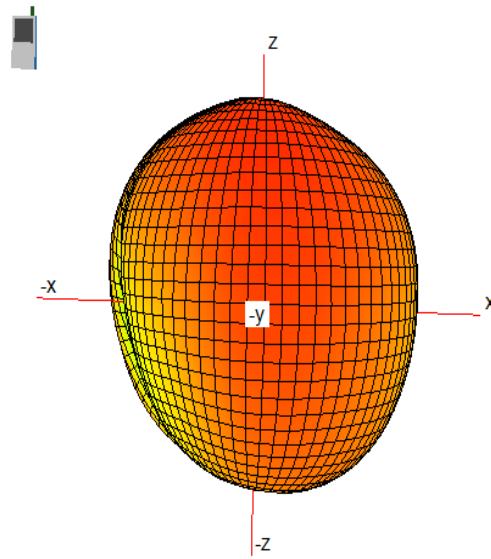
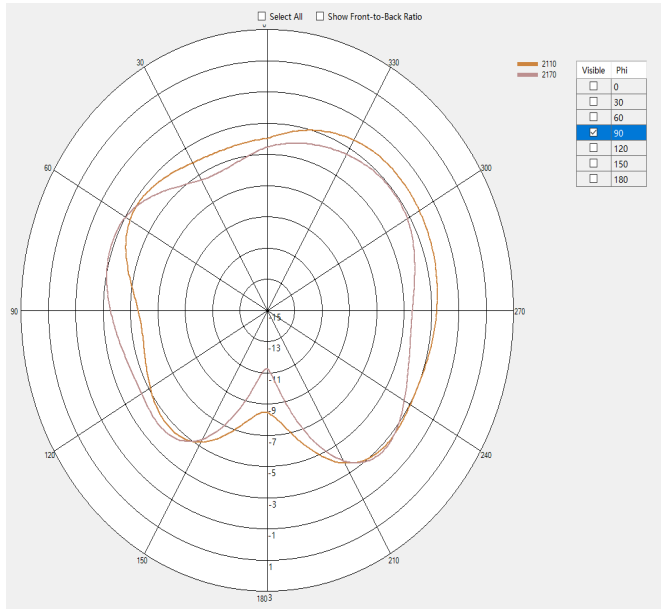




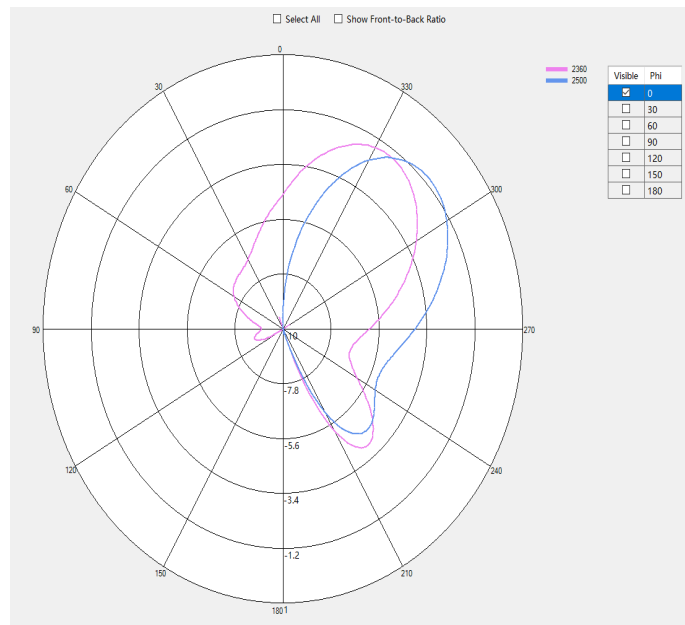
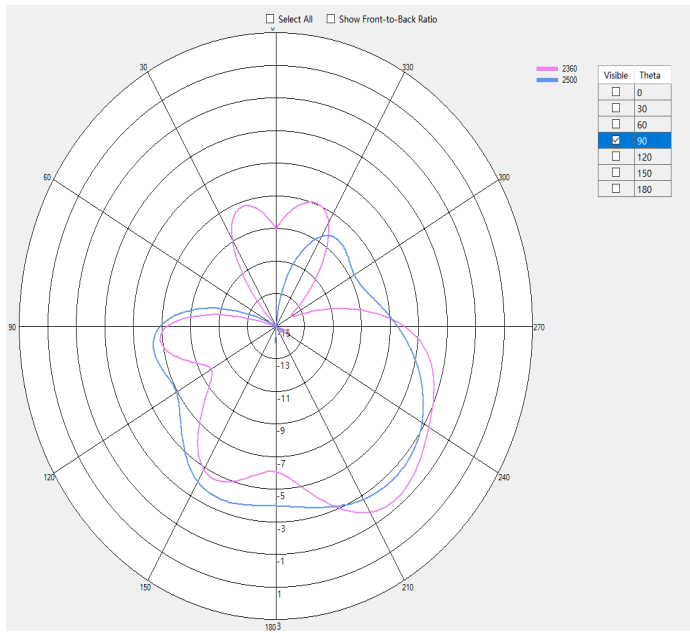


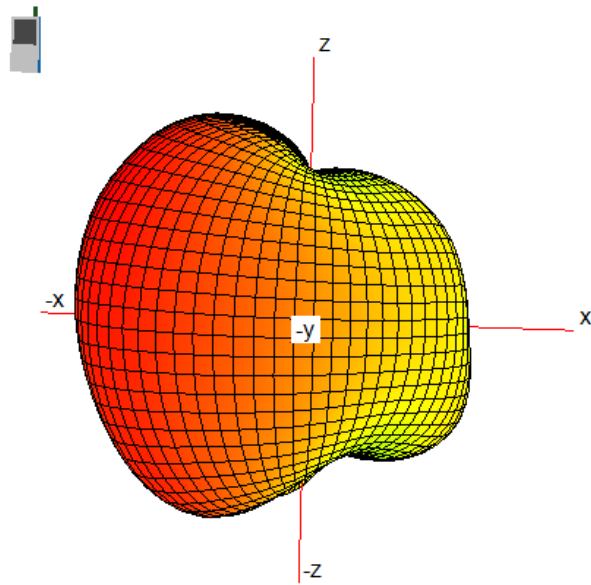
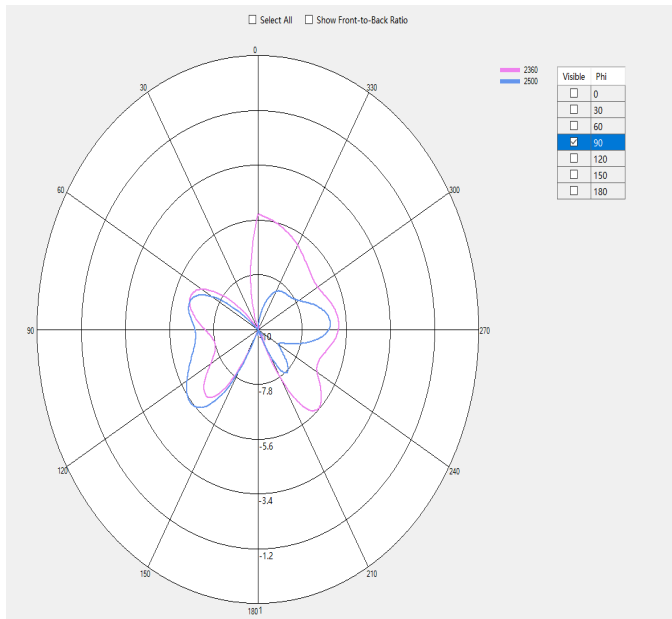
### Intermediate frequency



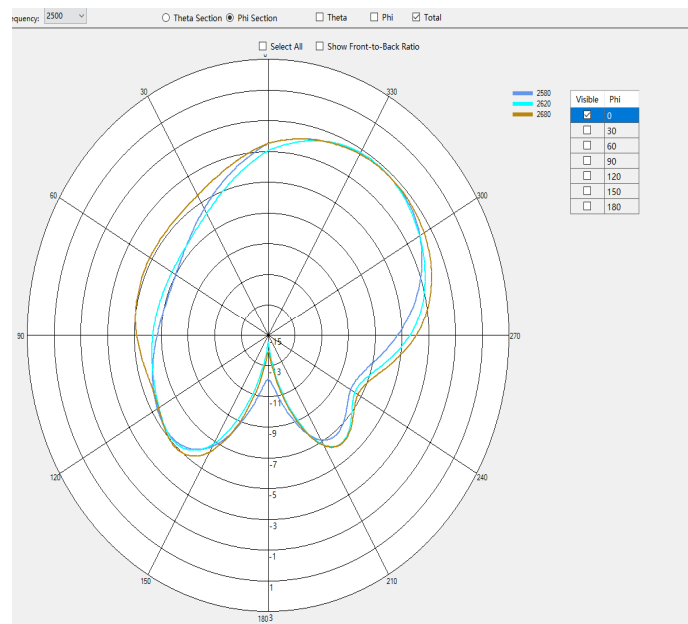
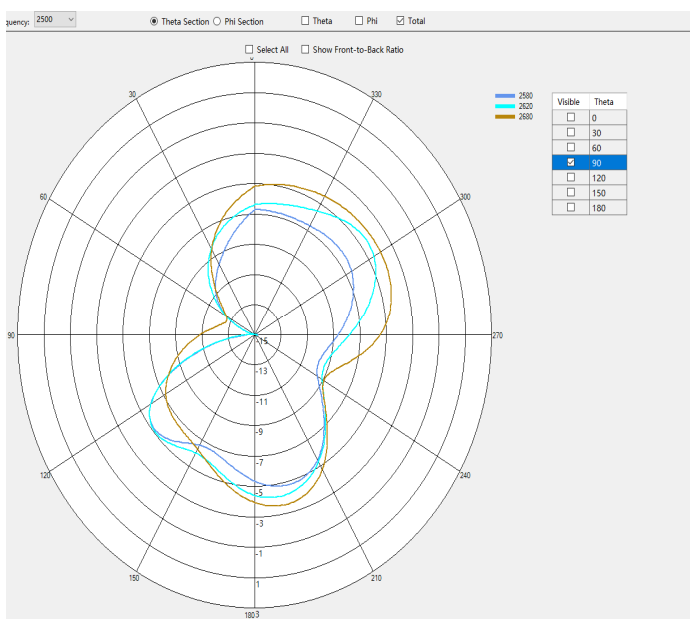


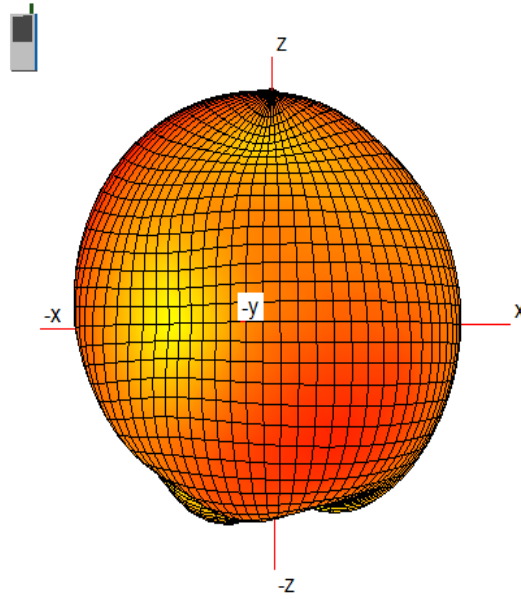
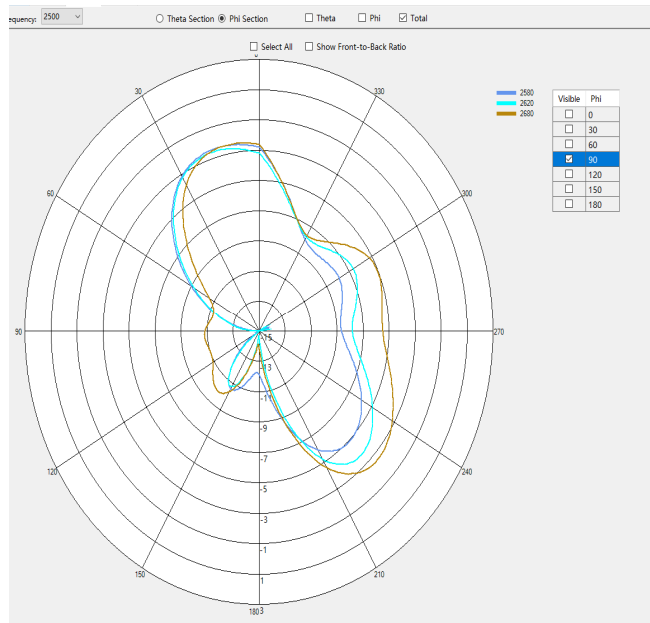
### High frequency



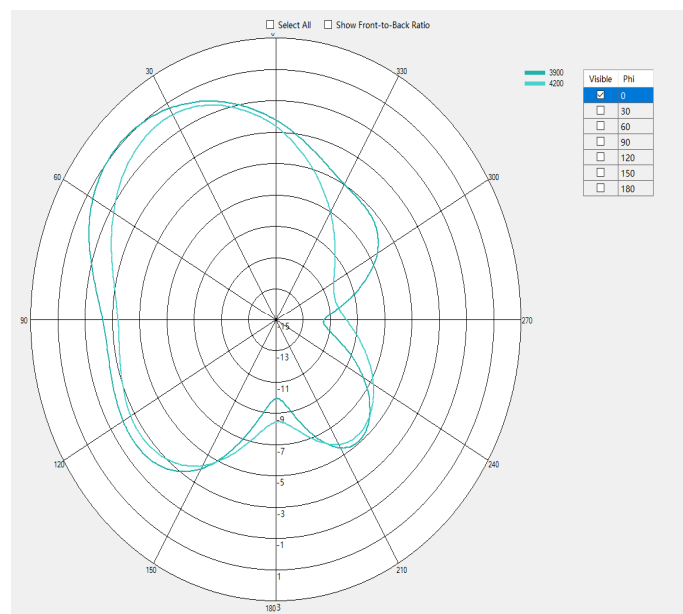
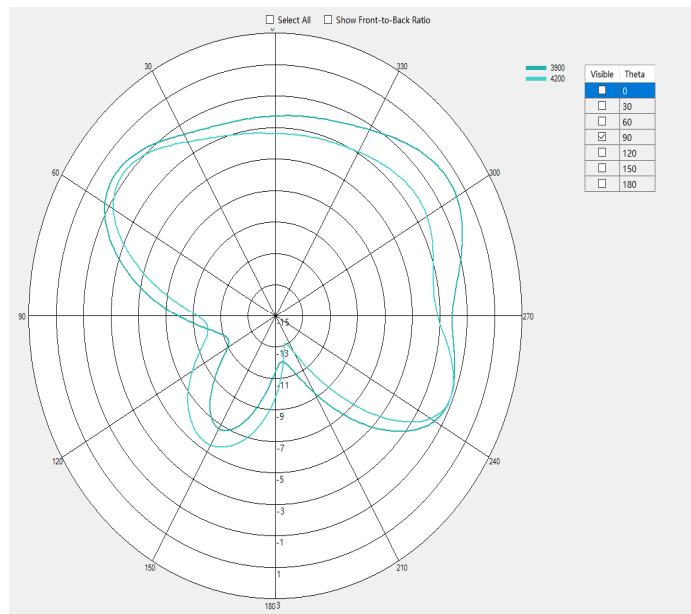


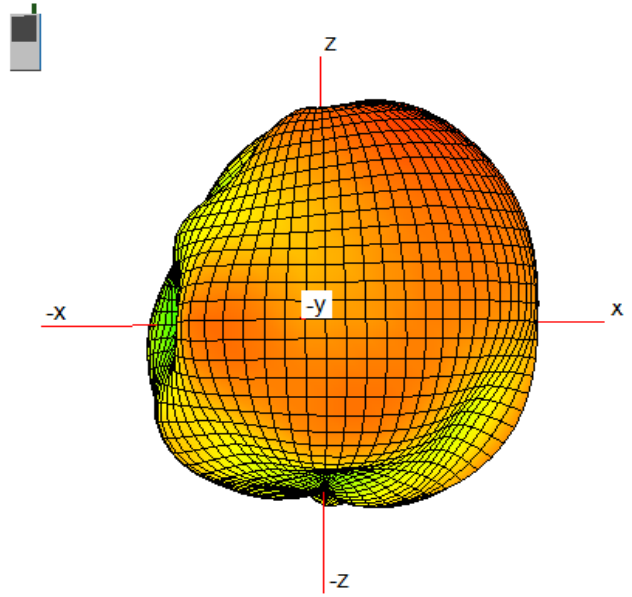
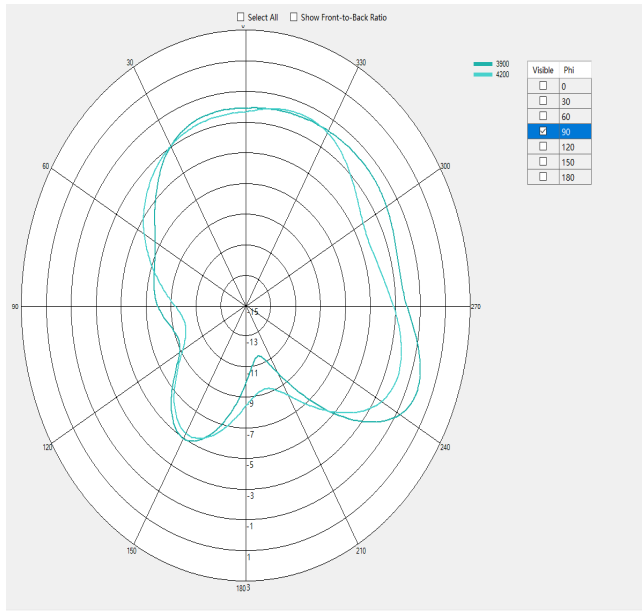
ANT 1  
N41



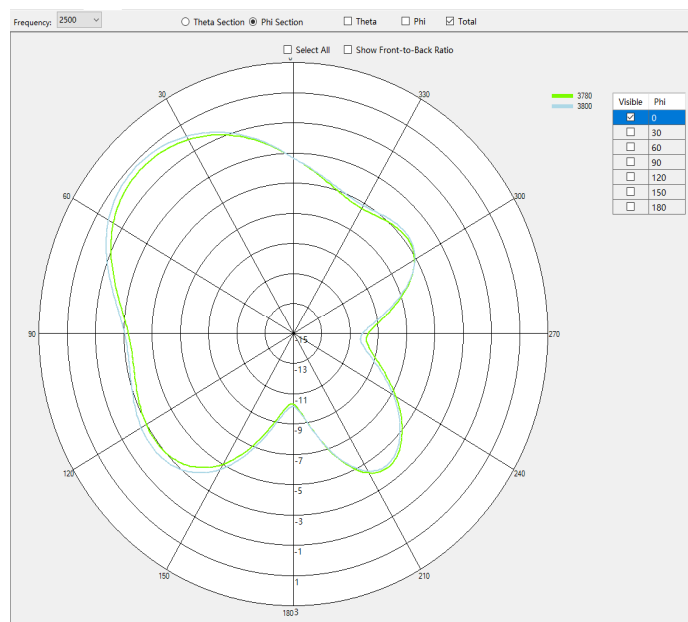
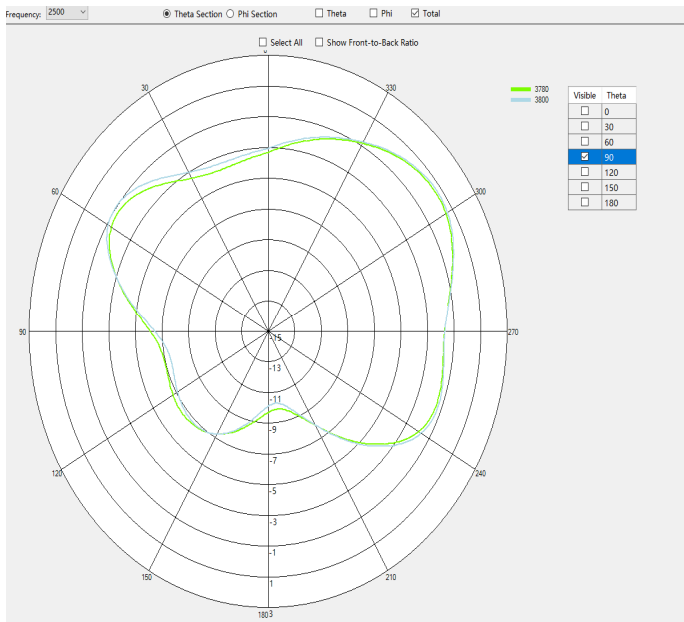


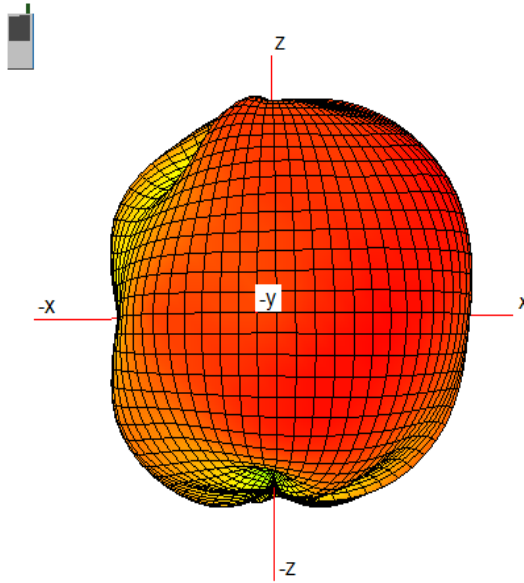
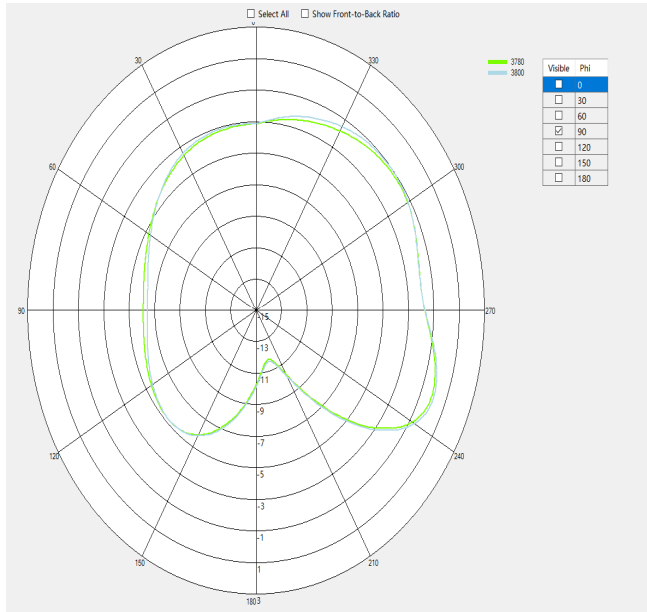
N77



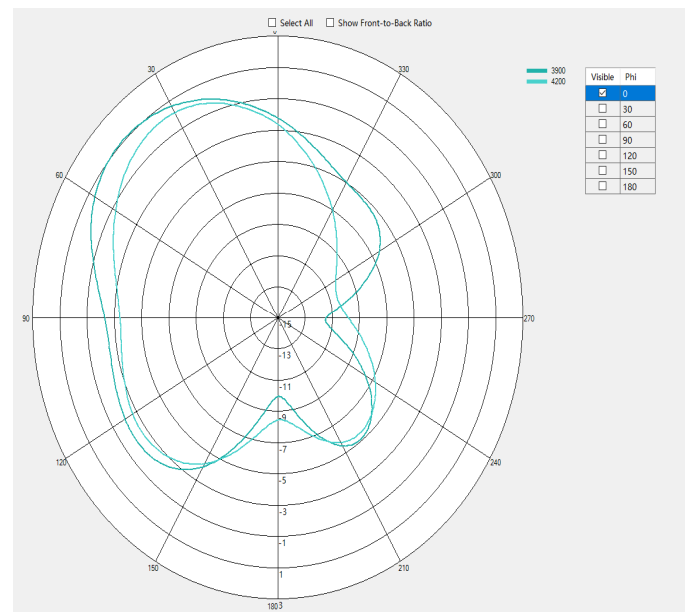
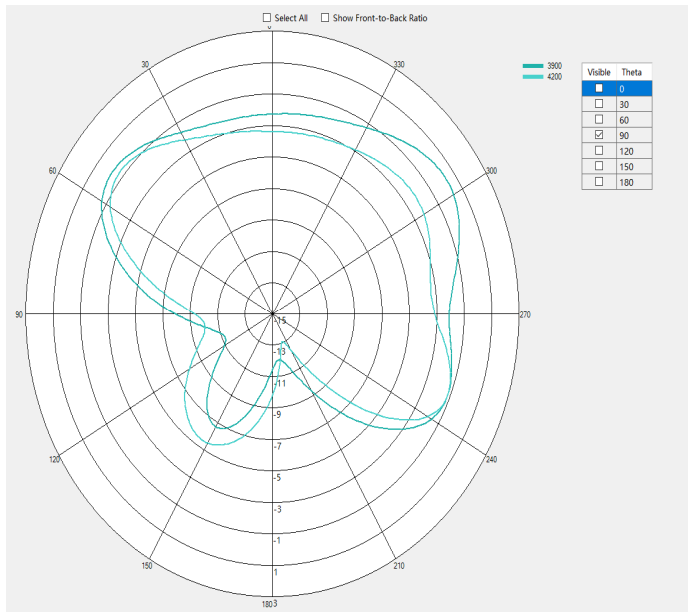


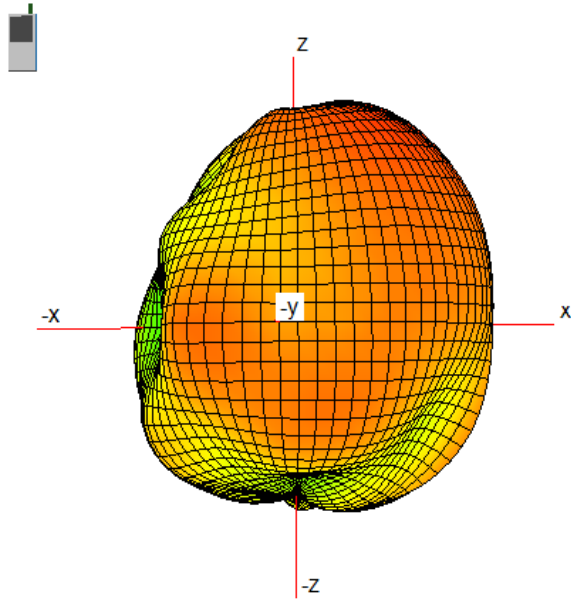
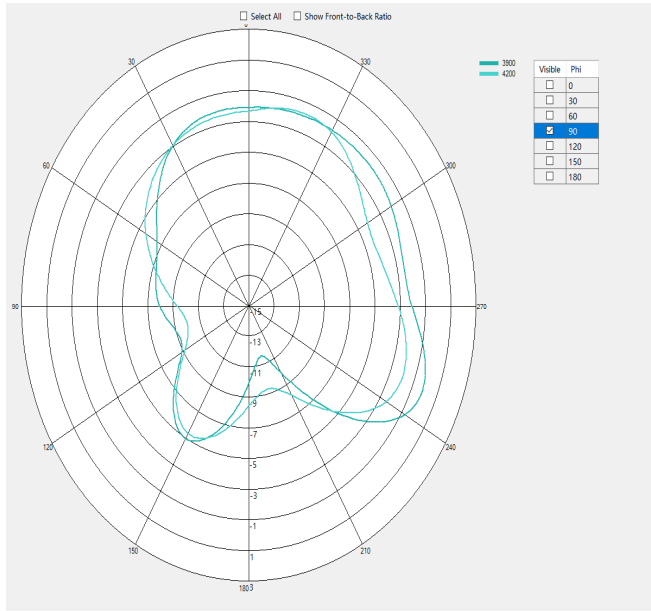
N78





N79





		BW	CH	TRP	TIS
LTE	B1	10MHZ	18050	18.35	
			18300	17.82	
			18550	17.26	-95.96
	B2	10MHZ	18650	18.58	
			18900	18.84	
			19150	18.77	-97.03
	B3	10MHZ	19250	16.63	
			19575	17.75	
			19900	18.57	-96.50
	B4	10MHZ	20000	16.52	
			20175	17.11	
			20350	17.60	-96.84
	B5	10MHZ	20450	16.16	
			20525	16.48	
			20600	17.21	-93.77
	B7	10MHZ	20800	17.78	
			21100	18.34	
			21400	18.75	-94.63
	B8	10MHZ	21500	16.16	
			21625	16.77	
			21750	17.18	-94.33
B12	10MHZ	23060	17.10		
		23095	17.86		
		23130	17.69	-95.02	
B13	10MHZ	23230	17.92	-94.59	
B17	10MHZ	23780	17.95		
		23790	18.09		



			23800	17.91	-95.00
	B19	10MHZ	24050	16.14	
			24075	16.66	
			24100	17.18	-94.67
	B20	10MHZ	24200	16.14	
			24300	17.25	
			24400	16.92	-93.02
	B26	10MHZ	26740	16.20	
			26865	16.20	
			26990	17.26	-94.72
	B28	10MHZ	27260	17.78	
			27410	18.37	
			27460	18.35	-91.26
	B66	10MHZ	132022	16.52	
			132322	17.72	
			132622	18.61	-95.90
	B38	20MHZ	37850	18.90	
			38000	19.10	
			38150	19.20	-91.22
	B40	20MHZ	38750	16.19	
			39150	16.20	
			39550	16.68	-90.81
	B41	20MHZ	40430	19.15	
			40620	19.14	
			41140	17.97	-91.12
WCDMA	B1		9612	18.72	
			9750	18.25	
			9888	17.63	-108.66
	B2		9262	18.47	
			9400	18.90	
			9538	18.91	-110.43
	B4		1312	16.90	

			1412	17.42	
			1513	17.95	-110.45
	B5		4132	16.20	
			4183	16.82	
			4233	17.58	-106.18
	B6		4162	16.42	
			4175	16.72	
			4188	16.98	-108.01
	B8		2712	16.18	
			2788	17.00	
			2863	17.41	-107.38
	B19				
			412	17.00	-107.91
GSM	G850		128	25.89	
			190	26.50	
			251	26.83	-104.04
	G900		975	25.06	
			38	26.95	
			124	27.05	-104.48
	D1800		512	25.60	
			699	24.99	
			885	26.56	-106.74
	P1900		512	26.33	
			661	26.86	
			810	26.75	-106.51
SA	N1	40MHZ	388000	18.09	
			390000	18.07	
			392000	17.86	-88.41
	N2	20MHZ	372000	18.50	
			376000	18.60	
			380000	18.56	-93.80

N3	20MHZ	344000	17.25	
		349500	18.04	
		355000	18.62	-93.70
N5	20MHZ	166800	16.07	
		167300	16.18	
		167800	16.28	-90.49
N7	20MHZ	502000	17.49	
		507000	17.86	
		512000	18.32	-92.27
N8	20MHZ	178000	16.07	
		179500	16.49	
		181000	16.83	-90.91
N20	20MHZ	168400	16.51	
		169400	16.73	
		170400	16.78	-89.08
N26	20MHZ	166300	16.02	
		164800	15.70	
		167800	16.30	-90.21
N28	20MHZ	142600	17.48	
		145600	18.20	
		147600	18.05	-87.90
N66	20MHZ	344000	16.17	
		349000	17.51	
		354000	18.08	-92.71
N38	40MHZ	518000	19.30	
		519000	19.13	
		520000	19.02	-90.12
N40	80MHZ	468000	16.27	
		470000	16.17	
		472000	16.22	-85.86
N41	100MHZ	509202	20.28	
		518598	19.43	

			528000	18.23	-86.40
	N77	100MHZ	623334	17.54	
			650000	18.33	
			676666	18.77	-87.22
	N78	100MHZ	623334	20.41	
			636666	19.39	
			650000	21.63	-87.69
	N79	100MHZ	696668	18.75	
			713334	19.80	
			730000	21.16	-86.40
NSA	B1-N77	100MHZ	623334	19.09	
			650000	19.21	
			676666	19.73	-88.11
	B2-N77	100MHZ	623334	19.46	
			650000	19.47	
			676666	19.82	-88.13
	B3-N77	100MHZ	623334	19.75	
			650000	19.46	
			676666	19.78	-88.03
	B5-N77	100MHZ	623334	19.23	
			650000	18.97	
			676666	19.46	-87.98
	B8-N77	100MHZ	623334	18.90	
			650000	19.15	
			676666	19.70	-88.25
	B20-N77	100MHZ	623334	19.27	
			650000	19.17	
			676666	19.64	-88.09
	B40-N77	100MHZ	623334	19.14	
			650000	18.79	
			676666	19.52	-87.88
B41-N77	100MHZ	623334	18.35		

		650000	18.95	
		676666	19.54	-87.82
B1-N78	100MHZ	623334	19.89	
		636666	17.59	
		650000	20.47	-88.38
B2-N78	100MHZ	623334	20.08	
		636666	17.65	
		650000	20.41	-84.51
B3-N78	100MHZ	623334	20.32	
		636666	17.23	
		650000	20.40	-88.13
B5-N78	100MHZ	623334	19.85	
		636666	16.88	
		650000	20.11	-87.93
B8-N78	100MHZ	623334	19.53	
		636666	18.00	
		650000	20.43	-88.24
B20-N78	100MHZ	623334	20.19	
		636666	17.15	
		650000	20.51	-88.13

