

Type 5 Radar Waveform_14

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	71.6	8	1360		662.097
2	1	84.9	8			348.22
3	2	93.9	8	1586		724.43
4	3	93.6	8	1622	1809	386.72
5	3	57.8	8	1534	1381	570.5
6	3	58.4	8	1650	1866	704.81
7	2	51.6	8	1354		41.71
8	3	84.7	8	1155	1868	24.82
9	1	50.1	8			511.25
10	1	83.3	8			512.92
11	1	86.3	8			762.98
12	2	53	8	1490		600.15
13	2	91.5	8	1727		127.06
14	2	66	8	1372		2.7
15	3	58.5	8	1878	1252	415.6

Type 5 Radar Waveform_15

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	52.2	8	1853		164.887
2	1	50.2	8			707.481
3	2	62.9	8	1010		427.902
4	2	57.9	8	1092		670.483
5	3	69.1	8	1171	1700	62.614
6	2	68.2	8	1649		62.155
7	2	66.9	8	1163		988.985
8	1	53.8	8			41.946
9	2	58.7	8	1369		1022.497
10	2	88.6	8	1105		8.118
11	2	76.5	8	1099		307.309

Type 5 Radar Waveform_16

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	93.1	20	1839		319.584
2	1	68.5	20			612.381
3	1	64.4	20			596.052
4	1	54.9	20			101.683
5	2	84.6	20	1761		2.904
6	2	98.7	20	1962		465.145
7	2	90.8	20	1055		239.426
8	2	58.3	20	1428		504.567
9	1	79	20			46.488
10	2	98.9	20	1019		442.059
11	3	84.9	20	1527	1636	464.321
12	2	70.5	20	1295		26.532
13	1	76.7	20			184.793
14	2	71.1	20	1594		517.244
15	2	74.8	20	1879		250.975
16	2	59.3	20	1542		364.066
17	1	58.4	20			55.037
18	2	84.4	20	1525		582.358
19	2	85.8	20	1631		310.079

Type 5 Radar Waveform_17

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	1	54	14			744.056
2	3	72.4	14	1157	1448	272.357
3	2	62.5	14	1340		396.104
4	3	56.6	14	1281	1363	416.271
5	2	99.4	14	1562		481.879
6	2	54	14	1461		515.726
7	3	76.7	14	1469	1275	186.003
8	3	72.3	14	1319	1721	306.28
9	2	82.8	14	1293		232.587
10	2	83.5	14	1348		374.534
11	2	67.7	14	1403		778.321
12	3	64.6	14	1089	1955	636.829
13	2	82.5	14	1159		313.186
14	1	55.5	14			278.143

Type 5 Radar Waveform_18

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	79.4	15	1084		337.521
2	2	87	15	1254		579.891
3	2	80.7	15	1548		330.262
4	1	62.5	15			181.813
5	3	58.2	15	1214	1915	116.714
6	3	88.6	15	1564	1929	70.615
7	1	88.7	15			69.636
8	2	66.2	15	1647		276.427
9	2	73.9	15	1622		237.078
10	2	85.5	15	1650		415.039
11	2	89	15	1449		194.021
12	1	99.4	15			613.052
13	1	88.4	15			163.623
14	2	54.3	15	1985		75.384
15	1	62.4	15			223.485
16	2	73.8	15	1853		19.136
17	2	56.2	15	1311		483.037
18	2	79.9	15	1434		348.458
19	2	56.5	15	1624		271.879

Type 5 Radar Waveform_19

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	1	76.4	11			942.696
2	1	52	11			887.33
3	3	88.9	11	1232	1552	541.4
4	1	87.5	11			301.97
5	1	51.6	11			517.93
6	2	68.4	11	1868		721.37
7	2	89.4	11	1098		153.9
8	2	70.5	11	1454		557.57
9	3	79.3	11	1512	1857	965.19
10	3	76.8	11	1312	1705	54.57
11	3	58.7	11	1302	1176	377.2
12	3	91.7	11	1586	1910	600.3

Type 5 Radar Waveform_20

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	78	10	1199		550.887
2	1	87.5	10			380.828
3	2	62.2	10	1253		170.265
4	2	91.8	10	1921		157.593
5	3	66.7	10	1836	1235	609.001
6	1	75.8	10			183.838
7	2	92.4	10	1209		690.536
8	1	71.8	10			416.654
9	3	84.8	10	1908	1762	431.131
10	3	63	10	1558	1234	67.189
11	2	78.8	10	1625		530.826
12	1	72.8	10			655.674
13	2	99.8	10	1774		644.042
14	2	64.7	10	1780		481.889
15	3	51.2	10	1086	1490	193.647
16	2	50.8	10	1916		97.065
17	2	52.8	10	1687		173.582

Type 5 Radar Waveform_21

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	85.4	11	1121		698.208
2	1	90.9	11			74.179
3	1	93.8	11			355.8
4	3	56.7	11	1852	1789	742.39
5	2	78.8	11	1380		242.81
6	2	84.4	11	1104		644.79
7	3	91.5	11	1052	1810	131.54
8	2	58.2	11	1003		191.61
9	1	82.8	11			193.73
10	1	98	11			723.33
11	2	98.1	11	1696		70.72
12	2	75.7	11	1990		296.47
13	1	89	11			387.46
14	2	70.2	11	1714		72.46
15	1	64.8	11			336.4
16	1	98.5	11			176.7

Type 5 Radar Waveform_22

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	1	96.5	16			1026.62
2	1	57.3	16			158.171
3	2	93.5	16	1004		653.802
4	1	57.4	16			597.033
5	3	74.4	16	1095	1679	527.654
6	3	67.9	16	1807	1146	486.595
7	2	84.9	16	1816		822.085
8	1	50.8	16			781.456
9	2	64.1	16	1985		586.997
10	2	54.6	16	1971		684.218
11	2	60.9	16	1142		713.409

Type 5 Radar Waveform_23

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	3	72.4	6	1630	1406	821.552
2	2	72	6	1715		767.907
3	2	54.1	6	1551		234.924
4	2	79.4	6	1429		632.981
5	1	98.8	6			422.249
6	2	79.4	6	1226		43.196
7	3	57.5	6	1966	1806	183.543
8	2	62.1	6	1308		511.12
9	2	79.7	6	1370		214.307
10	2	74.6	6	1417		810.704
11	1	52.2	6			823.681
12	3	51.3	6	1554	1491	144.669
13	1	66.8	6			402.486
14	2	56.9	6	1082		144.943

Type 5 Radar Waveform_24

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	3	91.4	12	1191	1696	208.579
2	2	93.7	12	1029		916.007
3	2	67.1	12	1523		1290.513
4	2	68.9	12	1182		670.48
5	1	85.9	12			869.917
6	1	92.7	12			985.253
7	1	99.2	12			434.63
8	2	71.5	12	1747		847.267
9	1	85.7	12			390.533

Type 5 Radar Waveform_25

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	1	94.6	12			255.986
2	2	51.7	12	1153		129.279
3	2	68.6	12	1552		205.42
4	2	98.6	12	1603		288.03
5	1	59.9	12			166.77
6	2	89.3	12	1417		152.59
7	2	80.9	12	1292		91.61
8	2	88.7	12	1026		494.04
9	1	94.5	12			451.78
10	2	85.6	12	1449		450.31
11	3	99.3	12	1377	1234	157.21
12	3	83.8	12	1353	1521	407.94
13	1	66.9	12			160.46
14	1	85.5	12			497.16
15	2	92	12	1873		485.53
16	2	69.5	12	1314		409.62
17	3	57.4	12	1967	1784	104.87
18	1	81.2	12			38.3
19	1	66.9	12			329.6
20	2	51.4	12	1619		325.5

Type 5 Radar Waveform_26

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	1	90.2	17			317.861
2	2	88	17	1634		582.383
3	3	70.7	17	1214	1871	252.087
4	3	50.2	17	1684	1261	226.97
5	2	72.2	17	1303		610.713
6	2	95.2	17	1943		389.247
7	2	99.9	17	1263		463.22
8	1	60.4	17			420.793
9	1	72.5	17			528.557
10	3	55.9	17	1435	1399	658.97
11	3	83.4	17	1274	1830	555.663
12	1	56.5	17			193.447
13	1	77.7	17			459.64
14	3	73.6	17	1724	1882	621.553
15	2	73.4	17	1769		467.237
16	2	50.9	17	1559		186.2
17	2	70.1	17	1495		356.233
18	1	91.1	17			467.267

Type 5 Radar Waveform_27

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	77.2	14	1415		369.234
2	2	61.7	14	1983		463.291
3	2	87.8	14	1416		191.512
4	1	59.5	14			49.473
5	2	66.9	14	1925		364.394
6	3	79	14	1440	1705	291.675
7	2	55.1	14	1107		236.776
8	3	64.3	14	1943	1698	443.867
9	2	58.2	14	1847		8.498
10	2	64.2	14	1647		242.129
11	1	52.6	14			84.551
12	2	93.4	14	1893		100.162
13	1	76.9	14			184.093
14	2	79.3	14	1294		100.794
15	1	82.8	14			28.015
16	3	53	14	1108	1283	209.146
17	2	64.2	14	1256		454.237
18	2	72.5	14	1264		152.558
19	2	53	14	1861		87.779

Type 5 Radar Waveform_28

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	60.1	7	1089		673.275
2	2	74.9	7	1828		970.23
3	3	56.6	7	1550	1072	102.16
4	3	91.1	7	1193	1246	647.63
5	3	69.4	7	1879	1262	736.91
6	3	72.8	7	1587	1556	715.39
7	2	61.6	7	1297		187.36
8	3	52.9	7	1391	1515	726.61
9	3	76.1	7	1508	1185	433.96
10	3	95	7	1873	1985	762.47
11	1	54.9	7			472.6
12	3	69.9	7	1081	1838	550.6

Type 5 Radar Waveform_29						
Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	1	92.2	13			204.279
2	2	61.2	13	1503		1154.85
3	1	97.3	13			654.25
4	2	81.5	13	1047		518.16
5	2	96.8	13	1259		1182.57
6	2	92.9	13	1454		1318.26
7	2	66.8	13	1990		603.29
8	2	85	13	1678		508.5
Type 5 Radar Waveform_30						
Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	1	94.6	10			135.786
2	1	70.6	10			414.653
3	3	58.7	10	1085	1180	539.106
4	2	59.7	10	1402		205.799
5	1	67.5	10			678.192
6	3	95.4	10	1121	1951	200.335
7	2	93.1	10	1535		511.568
8	1	70.6	10			718.132
9	1	59.1	10			345.775
10	2	77.9	10	1325		424.858
11	2	53.5	10	1125		366.961
12	1	74.9	10			709.554
13	3	86.6	10	1146	1002	255.277

Radar Type 6 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	1=Detection 0=No Detection	Trail #	Test Freq. (MHz)	1=Detection 0=No Detection
1	5490.4	1	16	5499.4	1
2	5491.0	1	17	5500.0	1
3	5491.6	1	18	5500.7	1
4	5492.2	1	19	5501.4	1
5	5492.8	1	20	5502.1	1
6	5493.4	1	21	5502.8	1
7	5494.0	1	22	5503.5	1
8	5494.6	1	23	5504.2	1
9	5495.2	1	24	5504.9	1
10	5495.8	1	25	5505.6	1
11	5496.4	1	26	5506.3	1
12	5497.0	1	27	5507.0	1
13	5497.6	1	28	5507.7	1
14	5498.2	1	29	5508.4	1
15	5498.8	1	30	5509.6	1
Detection Percentage (%)					100%

Radar waveform #1			Radar waveform #2		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
3	5507	9	11	5503	33
9	5497	27	42	5498	126
43	5494	129	43	5490	129
--	--	--	93	5510	279
--	--	--	95	5509	285

Radar waveform #3			Radar waveform #4		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
34	5507	102	13	5499	39
52	5508	156	41	5505	123
96	5491	288	74	5503	222
--	--	--	89	5507	267
--	--	--	96	5508	288

Radar waveform #5			Radar waveform #6		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
11	5501	33	5	5491	15
29	5491	87	16	5510	48
51	5507	153	61	5492	183
--	--	--	72	5498	216
--	--	--	94	5509	282

Radar waveform #7			Radar waveform #8		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
77	5497	231	6	5490	18
84	5506	252	18	5510	54
--	--	--	39	5507	117
--	--	--	47	5506	141
--	--	--	48	5500	144
--	--	--	49	5501	147
--	--	--	52	5492	156
--	--	--	56	5508	168
--	--	--	82	5504	246

Radar waveform #9			Radar waveform #10		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
16	5501	48	6	5493	18
28	5496	84	48	5491	144
55	5494	165	88	5492	264
77	5505	231	98	5507	294
83	5507	249	--	--	--

Radar waveform #11			Radar waveform #12		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Frequency (MHz)	Hopping Number	Pulse Start (ms)
5	5494	15	14	5498	42
20	5495	60	20	5492	60
35	5496	105	25	5494	75
100	5506	300	43	5507	129
--	--	--	64	5510	192
--	--	--	84	5497	252

Radar waveform #13			Radar waveform #14		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
2	5510	6	7	5500	21
45	5509	135	24	5510	72
56	5500	168	34	5491	102
58	5503	174	63	5494	189
66	5504	198	--	--	--

Radar waveform #15			Radar waveform #16		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
10	5493	30	14	5506	42
25	5503	75	21	5490	63
88	5495	264	26	5500	78
--	--	--	100	5503	300

Radar waveform #17			Radar waveform #18		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
11	5506	33	26	5498	78
12	5504	36	40	5496	120
42	5493	126	76	5494	228
68	5497	204	90	5509	270
92	5508	276	98	5493	294
98	5505	294	--	--	--

Radar waveform #19			Radar waveform #20		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
68	5504	204	39	5502	117
74	5498	222	46	5499	138
--	--	--	49	5498	147
--	--	--	68	5492	204
--	--	--	72	5500	216
--	--	--	86	5506	258
--	--	--	87	5491	261

Radar waveform #21			Radar waveform #22		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
76	5498	228	56	5495	168
92	5492	276	83	5500	249
--	--	--	87	5509	261
--	--	--	90	5499	270
--	--	--	97	5507	291

Radar waveform #23			Radar waveform #24		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
12	5500	36	22	5506	66
43	5493	129	24	5493	72
91	5499	273	50	5501	150
97	5506	291	74	5496	222
100	5509	300	93	5499	279

Radar waveform #25			Radar waveform #26		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
5	5495	15	4	5505	12
10	5510	30	5	5495	15
74	5496	222	54	5510	162
95	5494	285	89	5492	267

Radar waveform #27			Radar waveform #28		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
50	5509	150	20	5498	60
61	5506	183	63	5491	189
84	5498	252	69	5495	207
93	5501	279	--	--	--
96	5493	288	--	--	--

Radar waveform #29			Radar waveform #30		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
25	5492	75	6	5506	18
33	5501	99	29	5510	87
79	5509	237	41	5495	123
92	5503	276	92	5504	276
95	5507	285	--	--	--

Product	AX1800 Wi-Fi 6 Range Extender	Temperature	27°C
Test Engineer	Kevin Ker	Relative Humidity	65%
Test Site	SR2	Test Date	2020/10/26
Test Item	Radar Statistical Performance Check (802.11ax-HE40 mode – 5510MHz) (AP Mode)		

Radar Type 1 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
1	5491.0	1	618	86	1
2	5492.3	1	678	78	1
3	5493.5	1	598	89	1
4	5494.8	1	818	65	1
5	5496.1	1	538	98	1
6	5497.4	1	898	59	1
7	5498.6	1	798	67	1
8	5500.0	1	638	83	1
9	5501.3	1	3066	18	1
10	5502.5	1	858	62	1
11	5503.8	1	838	63	1
12	5505.1	1	878	61	1
13	5506.4	1	558	95	0
14	5507.6	1	718	74	1
15	5508.9	1	738	72	1
16	5510.0	1	775	68	1
17	5511.3	1	855	62	1
18	5512.6	1	1452	37	1
19	5513.9	1	2633	21	0
20	5515.2	1	1976	27	1
21	5516.6	1	2330	23	1
22	5517.9	1	563	94	1
23	5519.2	1	1819	29	1
24	5520.5	1	1680	32	1
25	5521.8	1	1122	47	1
26	5523.1	1	850	62	0

Trail #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
27	5524.4	1	685	77	1
28	5525.7	1	680	78	1
29	5527.0	1	2216	24	0
30	5529.0	1	843	63	1
Detection Percentage (%)					86.7%

Radar Type 2 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
1	5491.0	4.4	214	25	1
2	5492.3	4.8	211	26	1
3	5493.5	3.5	166	26	1
4	5494.8	4.7	152	27	0
5	5496.1	3.2	192	24	1
6	5497.4	2.4	197	26	0
7	5498.6	3.0	183	26	1
8	5500.0	3.2	226	23	1
9	5501.3	2.3	203	24	1
10	5502.5	3.3	181	23	1
11	5503.8	4.7	159	26	0
12	5505.1	2.1	150	27	1
13	5506.4	4.4	184	24	1
14	5507.6	1.4	156	29	1
15	5508.9	1.8	172	29	1
16	5510.0	4.8	177	24	1
17	5511.3	3.0	206	27	1
18	5512.6	3.7	185	26	1
19	5513.9	3.1	154	24	1
20	5515.2	3.2	174	28	0
21	5516.6	1.7	220	23	1
22	5517.9	3.5	211	28	1
23	5519.2	3.8	169	25	1
24	5520.5	5.0	175	29	0
25	5521.8	4.9	167	23	1
26	5523.1	3.7	210	26	1
27	5524.4	3.8	195	27	1
28	5525.7	1.9	200	25	0
29	5527.0	4.9	175	24	1
30	5529.0	3.8	185	26	1
Detection Percentage (%)					80%

Radar Type 3 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
1	5491.0	6.4	442	17	1
2	5492.3	6.4	351	18	1
3	5493.5	8.6	217	18	1
4	5494.8	7.1	317	17	1
5	5496.1	8.1	499	17	1
6	5497.4	6.4	402	17	1
7	5498.6	6.5	392	18	1
8	5500.0	6.5	499	18	1
9	5501.3	7.9	324	17	1
10	5502.5	6.2	283	17	1
11	5503.8	9.1	428	17	1
12	5505.1	8.9	229	18	0
13	5506.4	8.9	266	17	0
14	5507.6	8.9	262	17	1
15	5508.9	8.2	292	18	1
16	5510.0	6.6	314	18	0
17	5511.3	9.8	277	17	1
18	5512.6	6.3	324	17	1
19	5513.9	7.6	235	17	1
20	5515.2	8.4	219	18	1
21	5516.6	9.6	374	17	0
22	5517.9	9.0	220	17	1
23	5519.2	9.9	315	17	1
24	5520.5	7.3	313	17	1
25	5521.8	9.3	377	16	1
26	5523.1	9.1	238	18	1
27	5524.4	7.4	460	17	1
28	5525.7	6.5	374	17	1
29	5527.0	8.7	468	18	0
30	5529.0	8.1	499	17	1
Detection Percentage (%)					83.3%

Radar Type 4 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
1	5491.0	15.7	474	14	1
2	5492.3	16.6	202	15	1
3	5493.5	19.4	330	13	1
4	5494.8	13.8	425	16	0
5	5496.1	16.5	384	14	1
6	5497.4	17.5	399	14	1
7	5498.6	15.5	327	14	1
8	5500.0	14.3	250	16	1
9	5501.3	11.0	237	12	1
10	5502.5	18.0	332	14	1
11	5503.8	11.2	438	13	0
12	5505.1	13.7	246	12	0
13	5506.4	17.6	342	12	0
14	5507.6	16.5	292	14	1
15	5508.9	14.0	345	14	1
16	5510.0	14.9	419	14	1
17	5511.3	15.6	319	13	1
18	5512.6	13.7	220	14	1
19	5513.9	18.9	230	14	0
20	5515.2	14.1	374	14	1
21	5516.6	12.5	308	14	0
22	5517.9	12.7	391	12	0
23	5519.2	17.1	373	12	1
24	5520.5	15.3	338	14	1
25	5521.8	18.8	205	13	1
26	5523.1	13.5	224	13	1
27	5524.4	14.3	474	14	1
28	5525.7	20.0	476	13	0
29	5527.0	16.1	469	13	1
30	5529.0	20.0	445	13	1
Detection Percentage (%)					73.3%

Note: In addition an average minimum percentage of successful detection across all four Short pulse radar test

waveforms is as follows: $\frac{P_d 1 + P_d 2 + P_d 3 + P_d 4}{4} = (86.7\% + 80\% + 83.3\% + 73.3\%) / 4 = 80.8\% (>80\%)$

Radar Type 5 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	1=Detection 0=No Detection	Trail #	Test Freq. (MHz)	1=Detection 0=No Detection
1	5510.0	0	16	5494.6	1
2	5510.0	1	17	5493.0	1
3	5510.0	1	18	5493.4	1
4	5510.0	1	19	5494.6	1
5	5510.0	1	20	5496.2	1
6	5510.0	1	21	5522.2	1
7	5510.0	1	22	5522.6	1
8	5510.0	1	23	5524.2	1
9	5510.0	1	24	5525.8	1
10	5510.0	1	25	5524.6	1
11	5494.2	1	26	5523.8	1
12	5493.0	1	27	5526.6	1
13	5494.6	1	28	5521.0	1
14	5495.4	0	29	5526.2	1
15	5496.2	1	30	5524.6	1
Detection Percentage (%)					93.3%

Type 5 Radar Waveform_1						
Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	88.3	13	1746		1394.93
2	3	98.1	13	1702	1729	176.37
3	1	77	13			1427.03
4	1	58.9	13			1285.1
5	1	70.9	13			435.67
6	2	67.5	13	1882		1030.97
7	3	69.7	13	1997	1110	638.89
8	2	59.4	13	1170		86

Type 5 Radar Waveform_2

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	56.6	12	1329		573.55
2	3	53.5	12	1835	1217	537.1
3	1	59.8	12			82.16
4	2	69	12	1712		649.4
5	1	81.6	12			712.06
6	3	86.3	12	1257	1724	371.22
7	3	64.9	12	1896	1457	36.6
8	2	54.1	12	1052		20.99
9	2	94.8	12	1113		571.07
10	2	77.9	12	1614		500.2
11	2	52.1	12	1570		108.28
12	1	93.2	12			12.68
13	2	80.8	12	1077		542.45
14	2	88.4	12	1502		67.41
15	2	58.4	12	1388		337
16	2	90.4	12	1243		377

Type 5 Radar Waveform_3

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	3	92.2	15	1801	1919	271.068
2	2	72.2	15	1665		93.911
3	1	67.2	15			103.382
4	3	84.7	15	1596	1333	132.513
5	2	84.2	15	1939		624.424
6	2	73.5	15	1904		617.615
7	3	82	15	1614	1859	282.596
8	3	64.6	15	1707	1870	271.367
9	1	86.4	15			450.968
10	1	51.6	15			54.929
11	3	73.4	15	1406	1001	385.161
12	1	93.8	15			420.962
13	2	62.4	15	1336		521.513
14	1	62.4	15			593.614
15	2	50.2	15	1744		396.705
16	2	91	15	1472		399.836
17	3	59.1	15	1057	1090	447.437
18	3	68.6	15	1994	1893	385.258
19	2	96.9	15	1806		40.779

Type 5 Radar Waveform_4

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	65.8	8	1729		670.402
2	2	72.4	8	1290		197.843
3	2	66.8	8	1665		825.696
4	1	66.7	8			380.669
5	1	72.5	8			878.042
6	2	76	8	1651		599.435
7	2	67.9	8	1926		325.818
8	2	94.7	8	1880		263.732
9	2	75	8	1280		915.635
10	2	83.4	8	1320		187.828
11	2	80.6	8	1334		616.871
12	2	69.5	8	1069		515.254
13	2	73.4	8	1076		813.477

Type 5 Radar Waveform_5

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	3	51.4	7	1382	1909	467.706
2	1	58.2	7			361.493
3	2	85.5	7	1004		313.197
4	2	59.3	7	1264		431.73
5	2	99.9	7	1003		508.273
6	2	78.4	7	1855		189.687
7	2	78.6	7	1759		504.86
8	1	93.9	7			480.953
9	2	89.1	7	1267		503.947
10	3	50.4	7	1843	1142	207.52
11	2	90.5	7	1548		340.133
12	2	87.9	7	1398		177.427
13	1	57.5	7			585.34
14	1	67.3	7			26.613
15	2	50.4	7	1998		38.397
16	2	87.5	7	1813		181.1
17	2	85.5	7	1082		233.433
18	1	92.8	7			274.467

Type 5 Radar Waveform_6

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	3	74	7	1539	1138	497.561
2	2	66.7	7	1046		509.633
3	1	64.1	7			204.317
4	2	95.9	7	1415		114.35
5	3	60.1	7	1469	1326	475.383
6	2	95.8	7	1599		45.267
7	1	87.5	7			383.07
8	3	78.7	7	1057	1702	649.883
9	1	68.9	7			630.707
10	2	55.7	7	1694		382.46
11	2	69	7	1928		131.423
12	3	82.8	7	1306	1054	645.677
13	2	82.6	7	1686		643.86
14	2	51.5	7	1238		503.963
15	1	75	7			38.147
16	1	85.8	7			417.9
17	2	92.2	7	1079		341.933
18	1	99.3	7			468.467

Type 5 Radar Waveform_7

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	3	52.6	10	1135	2000	1131.28
2	2	80.3	10	1061		63.48
3	2	58.3	10	1656		751.25
4	2	95.4	10	1152		999.85
5	1	52.6	10			882.99
6	2	54.7	10	1222		853.6
7	2	58.5	10	1325		604.81
8	3	66.8	10	1347	1957	801.69
9	2	94.3	10	1308		858.6
10	2	54.6	10	1414		1066.1

Type 5 Radar Waveform_8

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	1	95.3	6			389.619
2	1	74.7	6			68.132
3	3	61.9	6	1216	1503	206.482
4	2	82.2	6	1895		55.073
5	2	57.8	6	1362		276.754
6	2	71.4	6	1521		447.065
7	2	68.4	6	1812		310.236
8	2	66.1	6	1478		284.297
9	1	96.3	6			181.358
10	2	74.5	6	1613		400.589
11	3	85.9	6	1759	1195	595.281
12	2	75.2	6	1589		298.092
13	1	94.9	6			434.163
14	2	61.6	6	1429		79.724
15	1	86.5	6			136.685
16	1	67.4	6			380.976
17	3	93.4	6	1711	1015	256.537
18	3	88.9	6	1464	1699	399.958
19	3	88	6	1094	1492	252.679

Type 5 Radar Waveform_9

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	78.5	5	1722		562.695
2	2	63.3	5	1030		158.441
3	2	81	5	1600		654.897
4	2	63.4	5	1755		177.92
5	1	81.5	5			317.653
6	2	99.8	5	1113		272.597
7	2	75.3	5	1008		291.13
8	3	76.1	5	1205	1187	117.113
9	2	92.3	5	1452		87.027
10	1	83.3	5			201.32
11	1	72.2	5			242.383
12	3	63.7	5	1834	1175	652.247
13	3	82.6	5	1952	1978	392.63
14	3	54.8	5	1610	1746	321.583
15	3	99.3	5	1169	1786	622.757
16	2	91.1	5	1403		426
17	2	63.2	5	1169		649.133
18	1	83.4	5			74.067

Type 5 Radar Waveform_10

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	83	8	1545		1421.95
2	2	92.2	8	1195		1470.2
3	2	92.7	8	1167		1069.62
4	3	72	8	1020	1883	219.91
5	1	91.3	8			640.35
6	2	77.6	8	1246		1046.55
7	2	71.9	8	1599		1008.6
8	2	67.3	8	1787		1277.1

Type 5 Radar Waveform_11

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	90.6	8	1244		525.718
2	2	96.6	8	1502		308.888
3	3	55.2	8	1443	1782	46.965
4	3	97.7	8	1138	1201	76.843
5	2	54.9	8	1414		449.921
6	3	87	8	1813	1210	683.628
7	1	83.4	8			219.396
8	2	65.3	8	1173		512.464
9	3	77.3	8	1075	1462	178.631
10	1	87	8			367.169
11	2	85.9	8	1414		191.506
12	3	51	8	1187	1110	439.594
13	1	60.4	8			237.352
14	2	86.4	8	1005		155.859
15	2	56.7	8	1733		655.147
16	2	50.1	8	1323		265.965
17	2	77.2	8	1257		502.082

Type 5 Radar Waveform_12

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	1	96.6	5			499.732
2	1	79	5			367.543
3	2	92.2	5	1838		316.467
4	2	72.9	5	1507		269.26
5	2	53	5	1689		344.363
6	2	58.5	5	1834		212.697
7	3	62.6	5	1497	1674	521.23
8	2	84.4	5	1253		512.893
9	1	76.1	5			142.917
10	3	85.8	5	1988	1206	522.47
11	2	60.6	5	1810		656.283
12	3	61	5	1917	1218	602.587
13	2	62.6	5	1439		157.96
14	2	62.9	5	1638		106.163
15	2	70.7	5	1234		189.617
16	1	58.5	5			188.5
17	2	89.2	5	1746		225.733
18	3	50.6	5	1572	1873	520.167

Type 5 Radar Waveform_13

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	50.4	9	1370		210.61
2	3	93.3	9	1675	1393	76.032
3	2	69.3	9	1608		401.447
4	2	87.9	9	1653		247.81
5	1	50.8	9			89.233
6	2	75.9	9	1726		8.247
7	1	83.1	9			462.19
8	1	88.4	9			102.173
9	2	52.4	9	1003		254.597
10	1	80.6	9			547.42
11	2	83.4	9	1773		458.693
12	2	93.3	9	1912		482.497
13	1	53.2	9			87.64
14	1	96.6	9			95.853
15	2	63.3	9	1250		79.207
16	3	85.9	9	1825	1167	422.2
17	2	99.2	9	1224		647.533
18	3	66.1	9	1502	1988	252.367

Type 5 Radar Waveform_14

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	68	11	1743		1191.98
2	2	94.5	11	1158		772.097
3	2	67.2	11	1658		1260.993
4	2	79.6	11	1432		329.16
5	2	57.1	11	1464		178.257
6	3	87.2	11	1060	1684	695.813
7	2	57	11	1337		249.3
8	2	57	11	1239		426.097
9	2	58.8	11	1446		692.333

Type 5 Radar Waveform_15

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	87	13	1671		84.421
2	3	94.2	13	1638	1148	294.983
3	3	66.8	13	1459	1912	159.632
4	3	84.7	13	1580	1381	69.243
5	3	55.5	13	1599	1099	68.754
6	2	79.9	13	1062		559.545
7	1	88.8	13			106.986
8	3	54	13	1645	1737	171.807
9	1	80.2	13			143.208
10	2	76.7	13	1242		25.479
11	2	74.3	13	1674		489.101
12	3	78.8	13	1354	1847	553.392
13	1	65.5	13			485.753
14	2	76.4	13	1582		547.194
15	1	84.7	13			307.865
16	2	72.6	13	1987		269.886
17	1	83.5	13			119.437
18	1	72.1	13			120.358
19	2	100	13	1468		268.179

Type 5 Radar Waveform_16

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	79.8	9	1077		442.217
2	2	66.7	9	1070		256.93
3	2	52.9	9	1342		723.29
4	2	54.7	9	1026		349.64
5	3	82.7	9	1064	1633	652.06
6	2	84.7	9	1839		183.27
7	3	83.8	9	1476	1763	525.37
8	2	99.2	9	1249		543.48
9	2	80.8	9	1745		400.51
10	1	95.8	9			167.18
11	2	89.5	9	1298		740.85
12	2	74.9	9	1725		233.06
13	2	69.6	9	1640		44.82
14	2	52.4	9	1137		445.8
15	2	95.9	9	1224		327.4
16	3	73	9	1873	1989	571.4

Type 5 Radar Waveform_17

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	55.4	5	1043		203.425
2	2	89.9	5	1981		175.283
3	3	63.1	5	1305	1386	12.63
4	1	55.3	5			24.58
5	3	68.9	5	1766	1682	566.47
6	2	59	5	1994		265.27
7	1	51.8	5			455.86
8	2	70.6	5	1596		574.28
9	1	88.8	5			392.18
10	1	55	5			167.95
11	3	89.4	5	1543	1237	354.19
12	1	67.5	5			466.8
13	1	63.4	5			184.79
14	2	70	5	1542		228.36
15	2	85.1	5	1171		138.34
16	3	75.4	5	2000	1563	231.74
17	2	85.2	5	1269		505.1
18	1	74.1	5			494.8
19	2	99.9	5	1415		234.8
20	2	82.7	5	1019		77.9

Type 5 Radar Waveform_18

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	1	80.1	6			288.338
2	2	91.6	6	1445		1019.681
3	2	98.4	6	1890		180.212
4	2	84.9	6	1030		108.403
5	2	83.9	6	1579		216.964
6	2	71.6	6	1620		123.695
7	2	93	6	1836		1083.105
8	3	53.5	6	1176	1902	646.066
9	2	50.5	6	1411		860.707
10	3	59.9	6	1330	1006	944.018
11	2	95.8	6	1588		216.709

Type 5 Radar Waveform_19

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	1	80.2	9			122.977
2	2	83.6	9	1549		333.46
3	1	78.5	9			474.96
4	2	86.8	9	1027		520.14
5	2	87	9	1753		678.23
6	1	71.6	9			11.85
7	2	67.6	9	1823		143.41
8	1	82.3	9			388.32
9	1	57.1	9			534.16
10	2	56.3	9	1419		569.18
11	3	84.4	9	1906	1764	784.22
12	3	64.3	9	1209	1440	230.8
13	2	53.9	9	1260		0.54
14	2	59.2	9	1839		558.8
15	2	98.7	9	1807		515.7

Type 5 Radar Waveform_20

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	83.8	13	1173		1074
2	2	77.6	13	1971		1056.35
3	1	83.3	13			355.49
4	1	98.4	13			559.89
5	2	57.8	13	1737		168.23
6	3	52.3	13	1932	1009	1150.03
7	2	52.8	13	1691		1002.72
8	1	67.5	13			849.22
9	2	89.8	13	1855		129.03
10	3	90.4	13	1512	1899	1154.4

Type 5 Radar Waveform_21

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	3	64.2	17	1680	1525	436.067
2	2	60.3	17	1438		499.33
3	2	55.2	17	1922		370.66
4	2	78.6	17	1311		206.08
5	1	61.4	17			577.57
6	2	74.8	17	1209		197.36
7	2	92.8	17	1778		410.98
8	2	78.9	17	1879		203.1
9	2	69	17	1760		183.58
10	2	54.8	17	1065		733.46
11	3	75.3	17	1956	1798	377.51
12	1	55.1	17			507.74
13	2	95	17	1435		324.88
14	2	75.7	17	1825		244.8
15	2	91	17	1794		362.6

Type 5 Radar Waveform_22

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	80.4	16	1242		88.249
2	1	78.4	16			1165.797
3	2	79.9	16	1887		446.843
4	2	65.4	16	1139		1139.77
5	2	69.4	16	1460		980.697
6	3	55.6	16	1332	1051	455.503
7	3	96.1	16	1792	1283	744.91
8	2	58.9	16	1726		1013.367
9	2	52.6	16	1042		735.333

Type 5 Radar Waveform_23

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	1	80.5	12			430.916
2	3	68	12	1664	1480	95.075
3	3	57.3	12	1549	1519	694.06
4	2	98.8	12	1158		519.22
5	3	79.6	12	1299	1640	355.71
6	3	62.9	12	1176	1862	186.22
7	2	71.7	12	1191		541.76
8	2	76.1	12	1953		44.28
9	1	76.6	12			333.44
10	3	97.7	12	1077	1866	728.57
11	2	67.3	12	1724		62.72
12	2	93.5	12	1409		344.75
13	1	64	12			608.29
14	3	92.9	12	1276	1220	502.6
15	2	83.5	12	1396		133.7
16	2	73.9	12	1632		191.3

Type 5 Radar Waveform_24

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	1	75.5	8			599.247
2	3	59	8	1823	1792	24.65
3	2	57	8	1027		430.8
4	3	71.3	8	1738	1992	421.08
5	3	98.8	8	1507	1366	698.39
6	3	58.5	8	1738	1645	580.56
7	2	99.9	8	1050		436
8	1	79.1	8			544.71
9	3	92	8	1368	1835	48.7
10	1	58.4	8			391.88
11	2	86	8	1888		599.33
12	2	95.6	8	1214		200.4
13	2	57.2	8	1706		216.18
14	2	73.6	8	1994		733.3
15	1	71.7	8			72.4
16	2	92.8	8	1678		402.6

Type 5 Radar Waveform_25

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	3	75.9	11	1263	1276	696.571
2	1	53.8	11			703.46
3	2	69.3	11	1882		578.86
4	1	67.6	11			536.88
5	2	59.7	11	1435		655.39
6	3	62.9	11	1395	1705	13.65
7	2	81.1	11	1239		567.82
8	2	96.4	11	1489		347.32
9	2	67.7	11	1135		140.03
10	3	90	11	1147	1535	640.14
11	2	67.9	11	1719		307.26
12	3	54.1	11	1519	1184	583.31
13	3	57.5	11	1843	1073	494.52
14	2	73.7	11	1837		711.9
15	2	56.4	11	1477		58.1
16	2	64.6	11	1063		137.7

Type 5 Radar Waveform_26

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	90.5	13	1827		363.721
2	3	88.8	13	1670	1121	229.433
3	1	87.2	13			458.016
4	1	92.9	13			763.079
5	3	65.2	13	1291	1489	826.992
6	1	50.6	13			419.255
7	1	80.4	13			243.618
8	1	79	13			662.702
9	1	54.8	13			900.785
10	2	97.5	13	1944		574.538
11	3	50.8	13	1729	1821	9.451
12	1	85.6	13			841.654
13	3	64.7	13	1192	1045	231.377

Type 5 Radar Waveform_27

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	3	93.1	6	1217	1710	882.483
2	3	57.1	6	1471	1685	265.583
3	1	89.6	6			339.466
4	2	50.8	6	1992		590.879
5	3	66.9	6	1844	1488	694.692
6	3	77.1	6	1003	1591	349.935
7	1	98.9	6			711.568
8	3	65.7	6	1128	1183	653.782
9	1	85.6	6			751.615
10	3	83.9	6	1753	1204	846.648
11	2	57.3	6	1624		531.821
12	3	89.1	6	1208	1871	496.254
13	2	59.5	6	1333		567.877

Type 5 Radar Waveform_28

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	3	99.1	20	1254	1564	505.131
2	2	83.1	20	1679		274.3
3	2	68.8	20	1365		343.522
4	2	56.4	20	1951		168.533
5	3	71.7	20	1766	1853	175.864
6	1	55.1	20			529.265
7	2	97.2	20	1122		414.446
8	2	69.8	20	1043		398.507
9	1	77.8	20			509.308
10	1	56	20			441.779
11	2	69.2	20	1761		384.131
12	3	99.6	20	1261	1732	313.802
13	3	66.5	20	1179	1946	588.303
14	1	60.8	20			173.434
15	2	67.9	20	1304		567.725
16	1	53	20			188.716
17	2	69.3	20	1757		74.137
18	2	75.1	20	1002		375.458
19	1	76.4	20			133.079

Type 5 Radar Waveform_29

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	1	77.7	7			884.081
2	3	83.5	7	1505	1500	493.263
3	2	55.6	7	1884		656.116
4	2	75.2	7	1067		784.649
5	3	89.1	7	1028	1196	373.642
6	1	70.3	7			129.355
7	1	67.4	7			282.158
8	2	82.9	7	1878		180.882
9	1	78	7			551.265
10	1	56.3	7			37.388
11	2	94.1	7	1949		821.731
12	2	54.8	7	1661		601.654
13	2	50.8	7	1989		97.077

Type 5 Radar Waveform_30

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	3	63.7	11	1242	1566	228.906
2	3	51.1	11	1456	1363	4.93
3	2	79.3	11	1011		31.746
4	1	62.4	11			869.039
5	2	53	11	1553		882.132
6	2	98.5	11	1660		46.305
7	2	57.9	11	1871		382.298
8	3	98.8	11	1671	1746	332.432
9	3	90.9	11	1470	1547	707.415
10	2	68.1	11	1128		791.168
11	2	99.1	11	1983		263.171
12	1	81.8	11			55.354
13	2	75.2	11	1978		867.377

Radar Type 6 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	1=Detection 0=No Detection	Trail #	Test Freq. (MHz)	1=Detection 0=No Detection
1	5491.0	1	16	5510.0	1
2	5492.3	1	17	5511.3	1
3	5493.5	1	18	5512.6	1
4	5494.8	1	19	5513.9	1
5	5496.1	1	20	5515.2	1
6	5497.4	1	21	5516.6	1
7	5498.6	1	22	5517.9	1
8	5500.0	1	23	5519.2	1
9	5501.3	1	24	5520.5	1
10	5502.5	1	25	5521.8	1
11	5503.8	1	26	5523.1	1
12	5505.1	1	27	5524.4	1
13	5506.4	1	28	5525.7	1
14	5507.6	1	29	5527.0	1
15	5508.9	1	30	5529.0	1
Detection Percentage (%)					100%

Radar waveform #1			Radar waveform #2		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
7	5528	21	30	5496	90
16	5523	48	31	5507	93
31	5490	93	34	5497	102
32	5492	96	36	5505	108
38	5501	114	49	5501	147
40	5498	120	51	5517	153
48	5494	144	80	5492	240
55	5513	165	82	5509	246
66	5515	198	--	--	--
68	5522	204	--	--	--
74	5493	222	--	--	--
88	5511	264	--	--	--

Radar waveform #3			Radar waveform #4		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
21	5524	63	24	5491	72
31	5517	93	25	5496	75
61	5505	183	48	5516	144
64	5527	192	56	5518	168
73	5509	219	57	5527	171
90	5523	270	59	5510	177
95	5520	285	66	5507	198
96	5490	288	97	5524	291

Radar waveform #5			Radar waveform #6		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
8	5521	24	16	5514	48
15	5530	45	38	5498	114
17	5492	51	49	5508	147
20	5509	60	52	5502	156
27	5510	81	65	5493	195
30	5497	90	74	5527	222
37	5498	111	--	--	--
39	5500	117	--	--	--
61	5504	183	--	--	--
67	5511	201	--	--	--
74	5517	222	--	--	--
80	5520	240	--	--	--
84	5503	252	--	--	--
85	5491	255	--	--	--

Radar waveform #7			Radar waveform #8		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
1	5509	3	2	5499	6
3	5504	9	11	5526	33
16	5512	48	15	5494	45
22	5502	66	28	5492	84
46	5497	138	41	5505	123
69	5520	207	66	5523	198
74	5515	222	70	5503	210
75	5506	225	78	5501	234
77	5495	231	99	5516	297

Radar waveform #9			Radar waveform #10		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
14	5498	42	2	5513	6
19	5495	57	14	5506	42
26	5522	78	16	5492	48
36	5494	108	22	5511	66
37	5514	111	57	5494	171
43	5524	129	59	5508	177
58	5525	174	79	5519	237
85	5507	255	80	5526	240
--	--	--	84	5527	252
--	--	--	85	5493	255
--	--	--	94	5507	282
--	--	--	98	5510	294

Radar waveform #11			Radar waveform #12		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
6	5497	18	17	5516	51
49	5519	147	26	5528	78
55	5518	165	43	5513	129
78	5502	234	45	5521	135
84	5525	252	52	5523	156
88	5500	264	60	5495	180
98	5516	294	63	5510	189
--	--	--	77	5530	231
--	--	--	78	5512	234

Radar waveform #13			Radar waveform #14		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
1	5500	3	19	5506	57
3	5516	9	25	5500	75
5	5497	15	48	5498	144
6	5511	18	50	5524	150
14	5503	42	68	5497	204
15	5512	45	70	5512	210
19	5520	57	--	--	--
24	5491	72	--	--	--
36	5524	108	--	--	--
45	5515	135	--	--	--
59	5490	177	--	--	--
63	5530	189	--	--	--
70	5494	210	--	--	--
71	5519	213	--	--	--
73	5529	219	--	--	--
77	5505	231	--	--	--
83	5492	249	--	--	--

Radar waveform #15			Radar waveform #16		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
4	5515	12	14	5515	42
13	5505	39	17	5492	51
17	5510	51	28	5530	84
19	5523	57	44	5496	132
32	5508	96	55	5520	165
37	5527	111	64	5527	192
70	5500	210	65	5519	195
73	5497	219	80	5502	240
--	--	--	88	5522	264
--	--	--	97	5518	291
--	--	--	99	5517	297

Radar waveform #17			Radar waveform #18		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
3	5526	9	2	5525	6
8	5527	24	6	5509	18
12	5504	36	56	5513	168
18	5492	54	57	5526	171
36	5507	108	60	5495	180
41	5490	123	85	5506	255
43	5530	129	--	--	--
64	5495	192	--	--	--
71	5497	213	--	--	--
85	5519	255	--	--	--

Radar waveform #19			Radar waveform #20		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
13	5500	39	2	5492	6
17	5513	51	12	5528	36
37	5490	111	20	5521	60
41	5510	123	36	5513	108
76	5497	228	39	5496	117
90	5523	270	68	5498	204
93	5511	279	83	5500	249
95	5520	285	95	5504	285
--	--	--	99	5519	297

Radar waveform #21			Radar waveform #22		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
6	5504	18	7	5521	21
28	5500	84	13	5491	39
73	5510	219	42	5520	126
80	5527	240	46	5509	138
87	5499	261	47	5507	141
90	5495	270	--	--	--

Radar waveform #23			Radar waveform #24		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
5	5507	15	12	5496	36
15	5503	45	13	5504	39
22	5516	66	15	5490	45
45	5528	135	36	5517	108
47	5509	141	44	5515	132
60	5526	180	47	5503	141
68	5508	204	48	5519	144
69	5525	207	52	5505	156
75	5514	225	53	5499	159
85	5492	255	74	5498	222
94	5515	282	86	5518	258

Radar waveform #25			Radar waveform #26		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
10	5526	30	12	5495	36
32	5515	96	14	5518	42
35	5497	105	21	5501	63
36	5514	108	60	5498	180
42	5528	126	78	5493	234
57	5524	171	87	5511	261
62	5501	186	89	5510	267
63	5527	189	92	5509	276
66	5510	198	99	5506	297
73	5508	219	--	--	--
80	5519	240	--	--	--

Radar waveform #27			Radar waveform #28		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
2	5507	6	1	5496	3
10	5500	30	24	5494	72
13	5502	39	64	5492	192
20	5494	60	68	5519	204
58	5518	174	84	5491	252
--	--	--	85	5528	255
--	--	--	87	5500	261
--	--	--	100	5498	300

Radar waveform #29			Radar waveform #30		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
21	5505	63	19	5530	57
60	5513	180	35	5498	105
61	5494	183	38	5507	114
65	5498	195	43	5493	129
67	5517	201	54	5506	162
69	5530	207	73	5522	219
81	5514	243	88	5525	264
--	--	--	96	5513	288
--	--	--	99	5519	297
--	--	--	100	5492	300

Product	AX1800 Wi-Fi 6 Range Extender	Temperature	27°C
Test Engineer	Kevin Ker	Relative Humidity	65%
Test Site	SR2	Test Date	2020/10/26
Test Item	Radar Statistical Performance Check (802.11ax-HE80 mode – 5530MHz) (Mesh Mode)		

Radar Type 1 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
1	5491.0	1	938	57	1
2	5494.6	1	878	61	1
3	5498.1	1	738	72	1
4	5501.7	1	898	59	1
5	5505.2	1	798	67	1
6	5508.8	1	538	98	1
7	5512.3	1	578	92	1
8	5515.3	1	918	58	1
9	5518.9	1	638	83	1
10	5522.4	1	718	74	1
11	5526.0	1	598	89	1
12	5529.5	1	678	78	1
13	5530.0	1	858	62	1
14	5532.5	1	618	86	1
15	5534.0	1	658	81	1
16	5536.5	1	1357	39	1
17	5539.0	1	2137	25	1
18	5541.6	1	2654	20	1
19	5544.1	1	2076	26	1
20	5546.0	1	2154	25	1
21	5548.5	1	786	68	1
22	5551.0	1	2413	22	1
23	5553.6	1	2266	24	1
24	5556.1	1	2710	20	1
25	5558.6	1	2019	27	1
26	5561.1	1	747	71	1

Trail #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
27	5563.6	1	2142	25	1
28	5566.2	1	2165	25	1
29	5568.7	1	1771	30	1
30	5569.0	1	942	56	1
Detection Percentage (%)					100%

Radar Type 2 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
1	5491.0	3.0	193	24	1
2	5494.6	2.2	198	25	1
3	5498.1	3.8	190	26	1
4	5501.7	3.8	180	24	1
5	5505.2	3.8	188	25	1
6	5508.8	1.2	196	28	1
7	5512.3	1.0	159	25	0
8	5515.3	3.0	211	28	1
9	5518.9	4.7	210	25	1
10	5522.4	4.4	216	27	1
11	5526.0	5.0	180	24	0
12	5529.5	3.1	192	24	1
13	5530.0	4.4	224	24	0
14	5532.5	1.0	160	23	1
15	5534.0	1.0	225	27	1
16	5536.5	2.8	223	29	1
17	5539.0	4.4	171	29	0
18	5541.6	1.5	198	28	1
19	5544.1	1.8	164	28	1
20	5546.0	1.6	211	28	1
21	5548.5	2.0	184	26	1
22	5551.0	3.0	162	29	1
23	5553.6	2.1	193	27	1
24	5556.1	2.5	192	28	1
25	5558.6	4.1	215	27	1
26	5561.1	2.6	184	25	1
27	5563.6	4.1	202	27	1
28	5566.2	2.0	186	24	1
29	5568.7	4.1	228	25	1
30	5569.0	3.4	212	29	0
Detection Percentage (%)					83.3%

Radar Type 3 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
1	5491.0	8.6	441	18	1
2	5494.6	8.0	275	16	1
3	5498.1	9.5	204	17	1
4	5501.7	7.1	290	16	0
5	5505.2	9.1	264	17	1
6	5508.8	6.7	307	18	1
7	5512.3	7.8	394	18	0
8	5515.3	6.6	399	17	1
9	5518.9	9.9	252	17	1
10	5522.4	7.1	233	17	1
11	5526.0	6.7	335	17	1
12	5529.5	10.0	353	16	1
13	5530.0	9.2	366	17	1
14	5532.5	9.1	206	18	0
15	5534.0	9.0	476	18	1
16	5536.5	7.3	328	18	1
17	5539.0	9.7	293	18	1
18	5541.6	8.5	243	17	0
19	5544.1	8.6	476	16	1
20	5546.0	6.1	370	17	0
21	5548.5	9.4	446	16	1
22	5551.0	7.5	387	17	1
23	5553.6	6.3	277	17	1
24	5556.1	7.7	438	17	1
25	5558.6	9.3	254	17	1
26	5561.1	6.9	330	17	1
27	5563.6	6.4	465	17	1
28	5566.2	6.5	315	17	1
29	5568.7	7.5	298	17	1
30	5569.0	8.8	381	16	1
Detection Percentage (%)					83.3%

Radar Type 4 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
1	5491.0	20.0	257	13	1
2	5494.6	19.2	276	14	0
3	5498.1	11.1	304	13	1
4	5501.7	18.3	412	15	0
5	5505.2	17.3	314	12	0
6	5508.8	13.0	220	14	1
7	5512.3	15.9	300	13	1
8	5515.3	14.2	323	16	1
9	5518.9	17.1	371	16	1
10	5522.4	11.5	488	13	1
11	5526.0	18.2	480	16	1
12	5529.5	15.3	475	15	1
13	5530.0	18.8	458	14	1
14	5532.5	12.6	216	13	0
15	5534.0	19.3	239	14	1
16	5536.5	16.3	213	12	1
17	5539.0	19.3	472	12	0
18	5541.6	16.0	444	13	1
19	5544.1	11.3	384	15	0
20	5546.0	17.8	353	14	1
21	5548.5	17.6	258	13	0
22	5551.0	19.2	480	15	1
23	5553.6	16.9	241	13	1
24	5556.1	19.7	305	15	1
25	5558.6	13.5	476	15	1
26	5561.1	16.8	204	14	1
27	5563.6	15.6	325	12	1
28	5566.2	11.4	492	14	1
29	5568.7	13.2	445	14	1
30	5569.0	14.5	232	15	1
Detection Percentage (%)					76.7%

Note: In addition an average minimum percentage of successful detection across all four Short pulse radar test

waveforms is as follows: $\frac{P_d 1 + P_d 2 + P_d 3 + P_d 4}{4} = (100\% + 83.3\% + 83.3\% + 76.7\%) / 4 = 85.8\% (>80\%)$

Radar Type 5 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	1=Detection 0=No Detection	Trail #	Test Freq. (MHz)	1=Detection 0=No Detection
1	5530.0	1	16	5498.6	1
2	5530.0	1	17	5495.8	1
3	5530.0	1	18	5495.8	1
4	5530.0	1	19	5499.0	0
5	5530.0	1	20	5493.4	1
6	5530.0	1	21	5561.0	1
7	5530.0	1	22	5562.2	0
8	5530.0	1	23	5566.2	0
9	5530.0	1	24	5563.4	1
10	5530.0	1	25	5565.0	1
11	5496.6	1	26	5561.4	1
12	5494.6	0	27	5561.4	1
13	5493.8	1	28	5565.4	1
14	5493.8	0	29	5561.4	1
15	5499.0	1	30	5567.0	0
Detection Percentage (%)					80%

Type 5 Radar Waveform_1						
Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	1	66.4	18			1102.1
2	3	77.4	18	1459	1426	572.027
3	2	95.8	18	1317		999.563
4	2	68	18	1788		1235.87
5	2	54.7	18	1642		1183.317
6	1	76.5	18			1271.043
7	2	81.3	18	1292		693.67
8	2	89	18	1542		754.267
9	3	63.7	18	1957	1073	919.833

Type 5 Radar Waveform_2

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	3	56	14	1490	1474	323.203
2	2	83.4	14	1843		413.321
3	2	54.5	14	1853		136.092
4	3	94.5	14	1040	1206	550.243
5	3	92	14	1216	1879	565.194
6	1	67.7	14			39.765
7	2	81.3	14	1536		316.086
8	2	73.2	14	1972		395.517
9	1	52.2	14			469.698
10	1	87.1	14			438.659
11	2	93.1	14	1833		243.491
12	2	94.6	14	1804		252.802
13	2	70.2	14	1170		407.483
14	3	66.6	14	1958	1547	180.734
15	2	64.4	14	1721		426.725
16	2	59.7	14	1609		288.796
17	2	50.1	14	1200		588.037
18	2	87.7	14	1393		541.458
19	2	98.7	14	1734		547.579

Type 5 Radar Waveform_3

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	1	77.7	9			0.3
2	2	83	9	1978		410.421
3	2	50.5	9	1100		293.712
4	1	61.8	9			359.873
5	3	50.7	9	1292	1047	438.114
6	2	74.9	9	1967		372.345
7	1	80.1	9			345.146
8	2	55.3	9	1772		458.407
9	2	90	9	1158		302.828
10	3	81.2	9	1328	1636	445.809
11	1	65.9	9			254.181
12	1	84.1	9			255.192
13	2	52.5	9	1717		200.113
14	3	72.5	9	1491	1395	586.234
15	3	66.5	9	1152	1777	397.465
16	2	61.6	9	1283		482.766
17	2	63.9	9	1856		205.737
18	3	59.3	9	1973	1905	294.558
19	2	52.5	9	1324		617.379

Type 5 Radar Waveform_4

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	1	54.2	7			1163.25
2	3	87	7	1552	1673	620.07
3	1	57.3	7			417.3
4	1	95.2	7			673.76
5	3	59.5	7	1666	1122	1095.19
6	2	75.5	7	1354		760.97
7	2	92.4	7	1871		473.86
8	1	60.7	7			65.82
9	2	61.4	7	1582		843.7
10	2	52.5	7	1862		252.8

Type 5 Radar Waveform_5

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	66.6	8	1867		13.46
2	2	88.4	8	1128		176.721
3	2	51.1	8	1178		558.92
4	1	50	8			733.5
5	3	93.2	8	1410	1835	151.73
6	3	93	8	1840	1364	464.94
7	1	99.2	8			147.14
8	1	73	8			569.42
9	2	83.6	8	1108		59.25
10	2	81.7	8	1943		659.66
11	2	62.8	8	1504		437.83
12	3	63.5	8	1905	1156	419.36
13	2	80	8	1785		72.82
14	2	52.1	8	1416		30.46
15	2	71	8	1044		646.7
16	3	74.6	8	1547	1176	174.1

Type 5 Radar Waveform_6

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	3	52.9	20	1061	1682	104.013
2	3	97.1	20	1337	1922	641.27
3	2	76.7	20	1159		463.78
4	1	89.2	20			77.33
5	2	88.8	20	1884		227.46
6	2	71	20	1089		548.69
7	3	57.4	20	1307	1582	641.11
8	3	61.1	20	1702	1958	222.54
9	3	78.7	20	1785	1798	413.86
10	3	64	20	1013	1023	309
11	2	59.1	20	1826		286.79
12	2	55.8	20	1086		737.1
13	1	76.9	20			699.52
14	2	85.2	20	1418		614
15	2	84.1	20	1193		255.2
16	3	82.5	20	1573	1705	225.9

Type 5 Radar Waveform_7

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	1	95.5	12			181.311
2	1	71.1	12			18.051
3	1	82.4	12			20.84
4	2	58.8	12	1889		503.34
5	3	98.5	12	1579	1997	113.02
6	2	88.6	12	1888		561.43
7	3	72.6	12	1232	1899	335.59
8	1	68.9	12			685.73
9	2	77.5	12	1213		108.25
10	3	67.1	12	1864	1600	706.15
11	2	82.6	12	1052		222.73
12	3	62.8	12	1964	1617	379.62
13	3	72.8	12	1138	1277	732.04
14	2	62.9	12	1315		165.83
15	1	68.7	12			90.9
16	2	75.4	12	1145		427.6

Type 5 Radar Waveform_8

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	93.2	13	1967		142.28
2	1	52.2	13			723.873
3	3	91.9	13	1583	1516	280.996
4	1	94.3	13			433.629
5	1	78.1	13			344.122
6	2	99.5	13	1583		583.235
7	1	51.2	13			564.148
8	3	86.7	13	1477	1168	521.962
9	3	95.7	13	1869	1095	199.585
10	2	64.3	13	1749		528.648
11	2	71	13	1200		627.371
12	1	54	13			418.554
13	3	64	13	1844	1690	795.177

Type 5 Radar Waveform_9

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	3	89	17	1240	1314	538.146
2	3	63.3	17	1380	1234	478.74
3	1	79.5	17			108.52
4	2	71.9	17	1787		487.39
5	2	80.2	17	1467		129.14
6	2	84	17	1285		154.29
7	2	51.8	17	1680		107.37
8	1	78	17			476.64
9	2	51.3	17	1169		364.01
10	3	76.5	17	1839	1101	188.98
11	1	53.9	17			373.67
12	1	50.8	17			400.9
13	2	62.7	17	1700		540.1
14	3	91.6	17	1137	1714	270.8
15	1	98.8	17			295.45
16	1	93.5	17			365.52
17	1	62.1	17			132.85
18	3	56.4	17	1628	1171	567.5
19	3	66.7	17	1370	1583	369.5
20	2	94.8	17	1632		217.8

Type 5 Radar Waveform_10

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	1	71.3	12			1095.23
2	2	51.3	12	1630		944.597
3	1	55.8	12			492.363
4	2	52.1	12	1271		294.68
5	2	51.6	12	1117		109.097
6	2	58.1	12	1357		1258.683
7	3	78.4	12	1495	1492	1280.21
8	3	97.9	12	1143	1457	724.067
9	2	60.2	12	1763		838.133

Type 5 Radar Waveform_11

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	69.8	14	1481		33.293
2	2	77.8	14	1128		674.087
3	2	58.9	14	1535		608.603
4	3	59.1	14	1104	1135	746.81
5	2	86.1	14	1349		85.977
6	2	62.9	14	1067		212.933
7	2	96.4	14	1250		1048.51
8	2	94.7	14	1642		6.847
9	2	55.1	14	1407		1237.333

Type 5 Radar Waveform_12

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	71.7	9	1933		465.522
2	3	74.5	9	1563	1506	661.753
3	2	80.3	9	1251		297.796
4	2	52.3	9	1787		389.119
5	2	80	9	1946		296.762
6	1	55.9	9			667.255
7	2	67	9	1122		443.358
8	3	83.7	9	1106	1893	194.382
9	2	75.4	9	1804		15.755
10	2	67.9	9	1656		764.638
11	2	90.5	9	1635		134.221
12	1	88.3	9			148.054
13	2	55.7	9	1406		797.577

Type 5 Radar Waveform_13

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	1	89.9	7			283.825
2	2	64	7	1778		754.98
3	1	93.6	7			487.27
4	2	54.5	7	1088		152.35
5	3	86.5	7	1361	1478	380.53
6	2	70.2	7	1540		245
7	3	67.7	7	1584	1604	956.87
8	2	69.2	7	1047		311.95
9	2	77.1	7	1304		896.97
10	2	70.9	7	1740		839.18
11	3	99.7	7	1131	1341	351.3
12	1	77.2	7			721.7

Type 5 Radar Waveform_14

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	3	83	7	1642	1524	1389.17
2	3	89.3	7	1293	1246	224.12
3	1	73.8	7			562.35
4	1	77.3	7			246.11
5	2	54.3	7	1913		1310.85
6	2	89.2	7	1097		380.17
7	3	69.2	7	1589	1406	428.33
8	3	91.5	7	1656	1434	234.2

Type 5 Radar Waveform_15

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	1	99.8	20			64.34
2	2	51.9	20	1755		63.705
3	2	50.6	20	1406		350.4
4	1	72.2	20			653.21
5	1	67.8	20			439.98
6	2	63.1	20	1901		523.45
7	2	87.3	20	1050		721.33
8	1	63.6	20			533.67
9	2	76.5	20	1608		47.14
10	3	58.9	20	1612	1294	587.71
11	3	56.7	20	1375	1554	737.84
12	2	68.7	20	1948		162.3
13	2	64.8	20	1504		295.28
14	1	58.7	20			127.39
15	2	78.2	20	1266		597
16	3	97.5	20	1810	1879	64.1

Type 5 Radar Waveform_16

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	3	63.1	19	1286	1481	540.445
2	3	73.8	19	1468	1690	359.378
3	3	70.3	19	1347	1065	623.762
4	2	57.3	19	1649		444.833
5	2	88.6	19	1634		193.284
6	1	72.4	19			506.335
7	1	85.2	19			575.656
8	2	75.7	19	1397		604.547
9	1	64.8	19			334.228
10	3	63	19	1211	1276	533.259
11	2	76.6	19	1792		458.511
12	2	90.6	19	1042		266.082
13	2	82.1	19	1510		442.663
14	2	96.6	19	1331		622.944
15	2	89.7	19	1039		185.645
16	2	64.4	19	1926		507.876
17	3	53.9	19	1279	1874	205.337
18	2	67.2	19	1567		25.358
19	3	97.6	19	1382	1298	579.579

Type 5 Radar Waveform_17

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	1	81.5	12			417.035
2	1	95.6	12			310.61
3	2	93.5	12	1281		332.35
4	2	85.7	12	1685		177.79
5	1	50.7	12			616.31
6	1	87.9	12			401.03
7	1	81.4	12			448.32
8	2	69.2	12	1881		326.39
9	2	51	12	1217		200.7
10	3	77	12	1864	1355	163.52
11	2	57.6	12	1600		357.75
12	2	77.9	12	1550		291.18
13	1	93.6	12			243.62
14	3	60.4	12	1798	1597	580.8
15	1	59.8	12			86.4

Type 5 Radar Waveform_18

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	1	57.2	12			335.597
2	2	93.4	12	1030		515.74
3	2	92.4	12	1621		557.96
4	2	84.6	12	1589		191.7
5	1	78.1	12			218.51
6	1	58.2	12			473.64
7	1	59.8	12			208.04
8	2	60.6	12	1927		387.35
9	1	75.1	12			500.36
10	2	99.3	12	1537		413.92
11	1	87.8	12			260.86
12	2	63.5	12	1070		488.38
13	2	74.4	12	1860		97.15
14	1	78.9	12			251.64
15	2	62.7	12	1431		106.21
16	2	74.5	12	1908		368.59
17	2	50.2	12	1991		545.1
18	2	71	12	1329		287.3
19	2	95.4	12	1274		574.4
20	2	54.2	12	1983		254.5

Type 5 Radar Waveform_19

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	3	67.9	20	1558	1878	560.533
2	1	78.1	20			98.989
3	2	88.2	20	1117		18.884
4	3	52.5	20	1421	1625	699.691
5	2	59.1	20	1310		735.489
6	1	69.5	20			24.076
7	2	88.3	20	1248		840.233
8	1	52.9	20			450.62
9	2	53.6	20	1295		349.477
10	2	99.2	20	1496		624.974
11	1	87.5	20			258.621
12	2	91.4	20	1609		737.929
13	3	71.2	20	1709	1408	763.086
14	2	53.5	20	1075		552.743

Type 5 Radar Waveform_20

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	57.9	6	1909		29.877
2	3	83.3	6	1413	1476	516.197
3	2	97.5	6	1556		124.144
4	1	92.9	6			517.931
5	3	51.4	6	1069	1544	649.189
6	2	59.5	6	1714		78.296
7	3	73.1	6	1048	1918	272.373
8	3	51.2	6	1805	1499	523.02
9	3	70	6	1146	1946	138.207
10	1	71.6	6			711.684
11	2	54.5	6	1489		523.911
12	3	60.2	6	1705	1939	127.589
13	3	90.3	6	1190	1446	390.886
14	2	68.7	6	1830		735.443

Type 5 Radar Waveform_21

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	1	77	20			403.394
2	3	77.2	20	1720	1878	1045.64
3	2	55.2	20	1523		595.77
4	2	70.2	20	1009		216.79
5	3	90.5	20	1431	1750	1074.07
6	1	90.6	20			202.16
7	3	73.7	20	1960	1800	211.82
8	3	83	20	1493	1631	575.04
9	3	79.3	20	1331	1986	161.63
10	3	70.6	20	1362	1845	789.3

Type 5 Radar Waveform_22

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	1	61.9	17			934.377
2	3	63.5	17	1521	1011	652.18
3	1	52.1	17			802.37
4	3	52.6	17	1202	1850	375.92
5	2	62.5	17	1250		374.56
6	1	63.1	17			383.71
7	3	62.6	17	1742	1770	935.46
8	2	56.4	17	1775		807.71
9	2	64	17	1644		325.16
10	2	63.2	17	1592		46
11	2	99.8	17	1963		787.1
12	3	99.9	17	1911	1631	159

Type 5 Radar Waveform_23

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	81.6	7	1735		524.59
2	2	82.3	7	1551		755.01
3	2	76.8	7	1247		825.07
4	1	72.5	7			582.81
5	2	54.7	7	1655		240.36
6	2	76.3	7	1176		917.15
7	3	98.3	7	1968	1181	458.98
8	2	98.9	7	1647		194.29
9	1	63.7	7			297.66
10	2	81	7	1224		1119.7

Type 5 Radar Waveform_24

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	1	51.2	14			219.489
2	2	92.3	14	1011		56.498
3	2	78.6	14	1749		159.285
4	3	69	14	1111	1624	423.243
5	2	58.2	14	1281		685.441
6	3	88.9	14	1034	1081	475.758
7	1	67.8	14			160.206
8	2	63.2	14	1177		628.654
9	1	71.5	14			316.271
10	1	75.1	14			257.559
11	1	97.1	14			624.016
12	2	88.4	14	1949		376.244
13	2	68.4	14	1665		121.862
14	3	75	14	1532	1452	513.489
15	1	91.9	14			475.847
16	2	57.1	14	1623		255.165
17	3	71	14	1645	1484	42.282

Type 5 Radar Waveform_25

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	63.7	10	1213		376.663
2	3	94.2	10	1969	1796	42.41
3	2	86.3	10	1349		372.41
4	2	98.7	10	1119		519.04
5	2	85.8	10	1077		131.77
6	2	83.9	10	1778		11.54
7	1	70.2	10			4.78
8	1	77.2	10			531.11
9	1	67.2	10			418.7
10	2	51.8	10	1772		634.8

Type 5 Radar Waveform_26

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	53.9	19	1218		1039.21
2	2	52.3	19	1814		964.471
3	3	85.2	19	1154	1270	573.662
4	3	78.1	19	1075	1365	1042.463
5	3	67	19	1848	1972	309.344
6	2	60.7	19	1449		731.425
7	2	68.7	19	1213		554.425
8	2	88.4	19	1675		522.526
9	3	61.7	19	1702	1967	980.807
10	2	71.8	19	1770		464.918
11	3	52.7	19	1578	1664	919.809

Type 5 Radar Waveform_27

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	63.9	19	1975		378.563
2	2	59.9	19	1158		92.94
3	3	54.6	19	1167	1127	774.2
4	2	59.6	19	1849		296.72
5	1	56.9	19			261.58
6	3	75.9	19	1259	1796	70.37
7	1	95.3	19			320.21
8	2	66.7	19	1463		537.13
9	3	62.9	19	1432	1830	80.57
10	3	78.9	19	1628	1957	783.53
11	3	62.5	19	1275	1951	739.42
12	3	55.4	19	1884	1916	314.2
13	3	72.8	19	1194	1939	678.9
14	3	68.2	19	1040	1938	495
15	3	90.5	19	1863	1593	686.1

Type 5 Radar Waveform_28

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	97.8	9	1134		202.84
2	3	92.6	9	1877	1607	141.885
3	2	61.1	9	1854		181.057
4	3	95.1	9	1357	1942	257.92
5	2	83.7	9	1016		236.033
6	2	99.2	9	1395		116.557
7	1	65.3	9			646.71
8	2	65.2	9	1581		478.933
9	1	95.8	9			550.597
10	2	81.4	9	1892		576.75
11	3	70.4	9	1990	1056	537.773
12	2	96	9	1367		23.827
13	3	80.6	9	1728	1354	197.74
14	1	97	9			304.353
15	1	78	9			393.287
16	2	84.5	9	1336		474.7
17	2	68.3	9	1931		445.533
18	2	60.3	9	1162		138.067

Type 5 Radar Waveform_29

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	98.4	19	1627		589.99
2	2	61.2	19	1475		435.291
3	2	53.3	19	1143		227.262
4	2	89.7	19	1799		171.063
5	3	54.3	19	1196	1876	0.734
6	1	85.6	19			244.155
7	3	76.1	19	1721	1823	211.586
8	2	76.6	19	1494		191.757
9	2	64.5	19	1977		396.088
10	3	83.7	19	1167	1270	582.769
11	2	63.5	19	1993		534.091
12	2	93.1	19	1114		273.002
13	1	56.2	19			593.673
14	1	63.5	19			275.174
15	3	94.8	19	1524	1893	454.575
16	2	57.5	19	1475		118.536
17	2	88.7	19	1233		15.737
18	1	75.7	19			391.058
19	2	82.5	19	1939		216.179

Type 5 Radar Waveform_30

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	83.2	5	1406		576.897
2	3	62.5	5	1480	1831	1136.25
3	2	53.2	5	1311		228.29
4	2	52.6	5	1199		1027.37
5	2	59.9	5	1593		980.05
6	2	93.6	5	1122		425.82
7	3	80.7	5	1124	1733	876.34
8	2	96.7	5	1911		1078.7
9	2	73	5	1255		31.42
10	3	63.1	5	1205	1167	116.8

Radar Type 6 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	1=Detection 0=No Detection	Trail #	Test Freq. (MHz)	1=Detection 0=No Detection
1	5491.0	1	16	5536.5	1
2	5494.6	1	17	5539.0	1
3	5498.1	1	18	5541.6	1
4	5501.7	1	19	5544.1	1
5	5505.2	1	20	5546.0	1
6	5508.8	1	21	5548.5	1
7	5512.3	1	22	5551.0	1
8	5515.3	1	23	5553.6	1
9	5518.9	1	24	5556.1	1
10	5522.4	1	25	5558.6	1
11	5526.0	1	26	5561.1	1
12	5529.5	1	27	5563.6	1
13	5530.0	1	28	5566.2	1
14	5532.5	1	29	5568.7	1
15	5534.0	1	30	5569.0	1
Detection Percentage (%)					100%

Radar waveform #1			Radar waveform #2		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
6	5500	18	1	5499	3
7	5502	21	5	5543	15
19	5537	57	7	5525	21
20	5547	60	8	5523	24
21	5522	63	20	5565	60
24	5497	72	31	5545	93
25	5515	75	35	5531	105
26	5566	78	37	5542	111
30	5565	90	43	5561	129
34	5538	102	54	5555	162
45	5517	135	55	5518	165
52	5532	156	65	5526	195
55	5493	165	66	5549	198
57	5550	171	73	5560	219
58	5509	174	77	5522	231
73	5519	219	81	5516	243
76	5543	228	95	5536	285
78	5518	234	98	5529	294
83	5503	249	99	5548	297
91	5544	273	--	--	--
94	5548	282	--	--	--
98	5501	294	--	--	--

Radar waveform #3			Radar waveform #4		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
3	5547	18	3	5490	9
8	5493	48	15	5502	45
11	5567	66	22	5510	66
16	5498	96	24	5506	72
18	5526	108	26	5567	78
36	5541	216	36	5491	108
38	5568	228	38	5507	114
42	5546	252	39	5515	117
47	5532	282	40	5568	120
55	5509	330	43	5519	129
61	5560	366	45	5532	135
67	5531	402	46	5563	138
73	5528	438	47	5526	141
77	5511	462	48	5514	144
80	5510	480	58	5552	174
88	5539	528	61	5524	183
91	5549	546	62	5529	186
93	5556	558	64	5504	192
--	--	--	66	5560	198
--	--	--	69	5550	207
--	--	--	88	5496	264
--	--	--	90	5535	270
--	--	--	91	5508	273
--	--	--	98	5533	294
--	--	--	99	5569	297

Radar waveform #5			Radar waveform #6		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
1	5509	3	1	5528	3
8	5563	24	7	5532	21
14	5541	42	8	5570	24
17	5492	51	24	5524	72
26	5551	78	30	5533	90
36	5529	108	31	5515	93
40	5565	120	39	5561	117
43	5539	129	53	5554	159
49	5494	147	54	5557	162
54	5540	162	63	5514	189
58	5502	174	73	5535	219
85	5559	255	80	5502	240
86	5512	258	89	5565	267
98	5490	294	98	5568	294

Radar waveform #7			Radar waveform #8		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
6	5497	18	4	5515	12
8	5501	24	7	5563	21
39	5507	117	10	5556	30
41	5498	123	12	5511	36
43	5534	129	13	5531	39
46	5518	138	22	5528	66
47	5516	141	28	5524	84
48	5521	144	34	5502	102
50	5550	150	41	5493	123
51	5499	153	45	5514	135
52	5494	156	49	5545	147
53	5528	159	54	5505	162
56	5538	168	61	5570	183
58	5564	174	66	5496	198
67	5532	201	69	5492	207
79	5554	237	75	5510	225
96	5503	288	79	5519	237
--	--	--	91	5500	273

Radar waveform #9			Radar waveform #10		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
4	5538	12	5	5569	15
6	5507	18	8	5494	24
17	5566	51	9	5540	27
23	5515	69	10	5492	30
30	5491	90	15	5534	45
37	5525	111	17	5516	51
39	5544	117	19	5536	57
51	5529	153	23	5512	69
56	5531	168	31	5508	93
77	5520	231	32	5553	96
78	5553	234	33	5541	99
80	5504	240	41	5511	123
87	5501	261	59	5525	177
89	5530	267	70	5554	210
96	5509	288	86	5520	258
99	5549	297	87	5523	261
--	--	--	90	5501	270
--	--	--	92	5503	276

Radar waveform #11			Radar waveform #12		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
18	5502	54	9	5540	27
28	5551	84	13	5534	39
34	5492	102	16	5551	48
50	5490	150	18	5524	54
51	5511	153	21	5519	63
52	5510	156	28	5561	84
60	5516	180	36	5510	108
66	5500	198	42	5535	126
81	5493	243	54	5513	162
83	5547	249	56	5518	168
86	5498	258	65	5537	195
88	5529	264	69	5538	207
92	5549	276	71	5544	213
93	5539	279	86	5557	258
94	5494	282	88	5565	264
100	5535	300	95	5527	285
--	--	--	96	5522	288
--	--	--	97	5495	291
--	--	--	99	5520	297

Radar waveform #13			Radar waveform #14		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
2	5512	6	23	5531	69
3	5520	9	26	5520	78
12	5559	36	28	5569	84
19	5527	57	30	5570	90
24	5538	72	31	5514	93
32	5547	96	45	5528	135
33	5556	99	47	5550	141
51	5554	153	60	5547	180
65	5533	195	61	5543	183
92	5507	276	73	5507	219
93	5528	279	75	5541	225
99	5497	297	76	5508	228
--	--	--	91	5490	273
--	--	--	92	5538	276
--	--	--	96	5542	288
--	--	--	99	5506	297

Radar waveform #15			Radar waveform #16		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
2	5527	6	9	5493	27
3	5524	9	17	5548	51
6	5522	18	21	5570	63
19	5540	57	25	5500	75
25	5562	75	29	5509	87
33	5493	99	30	5515	90
38	5558	114	38	5527	114
46	5555	138	39	5495	117
49	5541	147	58	5531	174
59	5563	177	73	5532	219
62	5518	186	79	5534	237
63	5569	189	--	--	--
76	5551	228	--	--	--
86	5566	258	--	--	--
88	5517	264	--	--	--

Radar waveform #17			Radar waveform #18		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
2	5500	6	1	5500	3
3	5513	9	10	5545	30
6	5547	18	34	5567	102
12	5532	36	36	5550	108
17	5496	51	42	5509	126
21	5504	63	47	5549	141
23	5502	69	51	5558	153
25	5498	75	53	5535	159
36	5490	108	55	5529	165
47	5530	141	57	5565	171
52	5533	156	60	5541	180
54	5552	162	70	5511	210
60	5550	180	71	5497	213
65	5545	195	77	5499	231
67	5560	201	88	5544	264
71	5524	213	94	5510	282
81	5544	243	--	--	--
87	5492	261	--	--	--
96	5549	288	--	--	--
100	5514	300	--	--	--

Radar waveform #19			Radar waveform #20		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
4	5543	12	5	5566	15
6	5506	18	10	5567	30
44	5524	132	16	5540	48
47	5559	141	18	5490	54
51	5562	153	23	5537	69
52	5490	156	25	5539	75
54	5500	162	38	5514	114
56	5558	168	44	5558	132
58	5534	174	54	5552	162
60	5515	180	60	5538	180
69	5567	207	63	5561	189
72	5535	216	66	5493	198
78	5494	234	68	5509	204
89	5556	267	71	5502	213
90	5502	270	77	5497	231
96	5521	288	79	5519	237
--	--	--	80	5523	240
--	--	--	85	5506	255
--	--	--	88	5562	264
--	--	--	94	5564	282
--	--	--	98	5505	294

Radar waveform #21			Radar waveform #22		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
5	5511	15	1	5490	3
8	5516	24	8	5523	24
10	5549	30	18	5533	54
21	5505	63	21	5515	63
27	5517	81	23	5524	69
37	5493	111	24	5549	72
38	5509	114	35	5502	105
44	5567	132	40	5564	120
51	5556	153	47	5539	141
70	5560	210	49	5568	147
72	5525	216	61	5525	183
79	5552	237	67	5526	201
84	5559	252	71	5530	213
90	5523	270	72	5512	216
91	5540	273	80	5495	240
95	5543	285	86	5545	258
100	5501	300	98	5529	294
--	--	--	100	5534	300

Radar waveform #23			Radar waveform #24		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
1	5530	3	7	5552	21
2	5547	6	14	5537	42
6	5534	18	15	5548	45
10	5490	30	31	5540	93
11	5497	33	35	5523	105
22	5538	66	42	5513	126
23	5498	69	50	5546	150
29	5499	87	56	5530	168
32	5536	96	61	5496	183
35	5543	105	75	5516	225
37	5561	111	76	5533	228
42	5516	126	84	5515	252
56	5542	168	87	5518	261
60	5567	180	90	5505	270
61	5549	183	95	5508	285
64	5507	192	--	--	--
67	5519	201	--	--	--
71	5493	213	--	--	--
74	5556	222	--	--	--
82	5562	246	--	--	--
87	5533	261	--	--	--
92	5526	276	--	--	--

Radar waveform #25			Radar waveform #26		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
5	5516	15	4	5499	12
6	5497	18	5	5508	15
15	5501	45	15	5542	45
16	5494	48	18	5554	54
19	5493	57	23	5528	69
24	5534	72	28	5530	84
35	5510	105	35	5501	105
36	5524	108	39	5535	117
45	5504	135	41	5515	123
60	5543	180	42	5537	126
70	5537	210	43	5547	129
74	5562	222	49	5567	147
95	5503	285	58	5556	174
--	--	--	67	5523	201
--	--	--	73	5546	219
--	--	--	81	5538	243
--	--	--	85	5491	255
--	--	--	88	5509	264

Radar waveform #27			Radar waveform #28		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
9	5507	27	21	5490	63
18	5566	54	23	5537	69
43	5527	129	31	5518	93
52	5557	156	32	5493	96
54	5508	162	39	5524	117
56	5505	168	40	5550	120
57	5497	171	44	5523	132
59	5512	177	46	5504	138
61	5523	183	49	5552	147
66	5562	198	69	5507	207
76	5529	228	71	5519	213
85	5526	255	75	5491	225
89	5550	267	84	5521	252
91	5498	273	85	5520	255
99	5540	297	88	5529	264
--	--	--	93	5495	279
--	--	--	94	5512	282

Radar waveform #29			Radar waveform #30		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
4	5496	12	8	5522	24
6	5568	18	15	5558	45
19	5522	57	24	5564	72
22	5537	66	33	5553	99
26	5499	78	40	5568	120
36	5507	108	43	5551	129
47	5517	141	57	5563	171
49	5511	147	58	5493	174
52	5518	156	60	5498	180
57	5501	171	62	5513	186
64	5550	192	64	5548	192
65	5565	195	65	5504	195
67	5502	201	68	5549	204
74	5536	222	71	5490	213
75	5557	225	73	5510	219
76	5497	228	77	5539	231
84	5510	252	82	5515	246
92	5528	276	92	5523	276
--	--	--	98	5555	294



Product	AX1800 Wi-Fi 6 Range Extender	Temperature	27°C
Test Engineer	Kevin Ker	Relative Humidity	65%
Test Site	SR2	Test Date	2020/10/28
Test Item	Radar Statistical Performance Check (802.11ax-HE20 mode – 5500MHz) (Repeater Mode)		

Radar Type 5 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	1=Detection 0=No Detection	Trail #	Test Freq. (MHz)	1=Detection 0=No Detection
1	5500.0	1	16	5496.0	1
2	5500.0	1	17	5497.6	0
3	5500.0	1	18	5494.0	1
4	5500.0	1	19	5496.8	1
5	5500.0	1	20	5497.2	1
6	5500.0	1	21	5505.6	1
7	5500.0	1	22	5505.2	1
8	5500.0	1	23	5501.6	1
9	5500.0	1	24	5506.0	1
10	5500.0	1	25	5506.4	1
11	5492.8	1	26	5504.8	0
12	5496.8	1	27	5504.4	1
13	5494.0	1	28	5504.4	1
14	5496.4	1	29	5502.0	0
15	5497.6	1	30	5504.4	0
Detection Percentage (%)					86.7%

Type 5 Radar Waveform_1

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Start Location Within Interval (msec)
1	3	79.9	5	1538	1047	45.623
2	3	72.4	5	1361	1639	724.2
3	1	77.1	5			715.94
4	3	80.3	5	1928	1080	274.08
5	3	90.6	5	1220	1537	360.39
6	3	70.5	5	1184	1648	357.7
7	2	96.9	5	1193		234.13
8	1	54.3	5			281.78
9	2	84.6	5	1478		658.72
10	3	85.1	5	1956	1415	115.13
11	3	74.5	5	1812	1380	115.56
12	1	78	5			235.88
13	3	77.9	5	1493	1899	434.7
14	2	87.2	5	1644		290.2
15	3	51.4	5	1579	1424	503.1

Type 5 Radar Waveform_2

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	1	91.4	14			436.511
2	2	66	14	1377		454.813
3	3	54.3	14	1941	1418	884.376
4	1	77.5	14			623.419
5	3	85.1	14	1791	1922	22.222
6	1	92.3	14			714.455
7	2	83.9	14	1581		54.938
8	3	69.8	14	1078	1361	820.152
9	3	90	14	1686	1181	409.535
10	2	73.5	14	1704		312.958
11	3	60.5	14	1034	1583	585.711
12	3	91.2	14	1295	1152	278.754
13	3	55.5	14	1139	1192	863.477

Type 5 Radar Waveform_3

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	1	97.4	17			315.751
2	3	81.3	17	1134	1292	228.345
3	2	70.7	17	1973		144.54
4	3	68.6	17	1307	1383	127.37
5	2	69.3	17	1236		306.2
6	2	71.5	17	1499		213.95
7	2	98.6	17	1041		351.94
8	3	56.5	17	1125	1449	455.41
9	2	67.3	17	1310		175.39
10	2	96.3	17	1302		631.44
11	2	56.1	17	1722		118.78
12	2	87.5	17	1818		135.32
13	1	94.7	17			620.97
14	2	76.2	17	1431		10.59
15	2	71.7	17	1592		605.3
16	1	88.3	17			667

Type 5 Radar Waveform_4

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	70.9	10	1031		519.633
2	1	60.7	10			605.823
3	2	87.7	10	1370		175.937
4	1	98.8	10			397.48
5	1	60	10			391.653
6	2	58.4	10	1484		596.537
7	2	90.2	10	1168		480.01
8	2	65.3	10	1317		340.973
9	1	69.9	10			471.927
10	3	56	10	1574	1445	484.45
11	3	89.4	10	1556	1984	132.503
12	2	66.7	10	1626		189.497
13	1	60.9	10			73.47
14	3	88.2	10	1716	1897	648.973
15	2	79.5	10	1207		623.027
16	2	53.7	10	1030		181.2
17	3	73.7	10	1383	1295	475.233
18	2	89.7	10	1070		83.367

Type 5 Radar Waveform_5

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	75.6	19	1270		273.527
2	1	77.9	19			536.863
3	3	50.1	19	1457	1226	558.617
4	1	77.9	19			259.88
5	2	95.7	19	1153		122.633
6	2	97.5	19	1599		293.867
7	3	57.7	19	1723	1128	586.67
8	1	82.3	19			286.443
9	1	92.6	19			207.827
10	2	59.5	19	1841		154.93
11	2	75.8	19	1691		641.373
12	2	53.9	19	1370		513.857
13	1	61.6	19			547.87
14	1	79.7	19			551.053
15	2	99.4	19	1449		131.767
16	2	72.3	19	1181		129.9
17	2	74.6	19	1367		645.133
18	2	84.4	19	1449		134.467

Type 5 Radar Waveform_6

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	53.2	11	1081		237.786
2	3	52.2	11	1964	1171	356.773
3	1	69.1	11			59.547
4	2	96.5	11	1947		354.93
5	2	95.4	11	1269		487.113
6	1	55.9	11			519.507
7	2	88.5	11	1780		403.96
8	2	70.6	11	1488		72.973
9	2	90.8	11	1989		551.877
10	3	78.9	11	1077	1104	49.84
11	1	89.6	11			86.513
12	2	92.5	11	1646		187.717
13	3	70.3	11	1595	1729	306.2
14	2	73.9	11	1631		442.803
15	3	53.4	11	1362	1720	311.527
16	3	80.5	11	1150	1260	266.4
17	1	80.8	11			505.433
18	1	51.1	11			585.067

Type 5 Radar Waveform_7

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	1	53.3	17			586.671
2	1	93.9	17			71.68
3	3	90.7	17	1070	1615	748.41
4	1	83.8	17			853.53
5	3	76.4	17	1313	1453	247.26
6	1	71.1	17			149.52
7	2	80.4	17	1701		573.65
8	2	81.8	17	1012		268.3
9	1	76.9	17			129.66
10	1	72.3	17			735.5

Type 5 Radar Waveform_8

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	82	5	1234		365.958
2	3	63.6	5	1523	1632	369.943
3	3	91.1	5	1717	1389	221.13
4	2	79.7	5	1286		89.67
5	2	98.6	5	1602		427.17
6	1	90.6	5			16.7
7	2	85.8	5	1176		184.89
8	2	65.2	5	1608		26.88
9	3	89.6	5	1043	1026	381.45
10	3	93.6	5	1406	1350	439.16
11	2	66.7	5	1956		123.04
12	2	53.3	5	1210		110.11
13	1	96.3	5			311.27
14	1	98.1	5			67.18
15	2	60.1	5	1447		96.31
16	2	81.6	5	1568		467.46
17	2	89.6	5	1968		48.31
18	1	88	5			490.5
19	1	71.5	5			60.2
20	3	68.9	5	1621	1928	530.1

Type 5 Radar Waveform_9

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	1	82.7	15			318.744
2	2	82.2	15	1364		448.64
3	3	62.4	15	1399	1804	492.29
4	2	74.3	15	1010		178.1
5	2	88.5	15	1116		203.35
6	3	88.8	15	1997	1127	573.94
7	1	51.7	15			331.23
8	2	84.7	15	1348		674.55
9	1	76.2	15			299.25
10	2	65	15	1584		462.76
11	2	51.4	15	1665		195.5
12	2	55.4	15	1762		40.75
13	2	99.3	15	1409		113.33
14	2	69.2	15	1052		38.7
15	1	68.5	15			341.2

Type 5 Radar Waveform_10

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	78.3	15	1046		253.916
2	2	50.9	15	1671		555.74
3	2	68.5	15	1145		142.37
4	1	81.8	15			323.84
5	2	60.4	15	1386		529.19
6	2	92.8	15	1353		259.79
7	2	87.3	15	1722		580.54
8	3	81	15	1100	1901	283.07
9	1	85.2	15			530.32
10	2	90.3	15	1303		432.01
11	1	59.4	15			421.69
12	1	75.8	15			548.52
13	1	78.3	15			6.25
14	1	93.3	15			234.82
15	2	71.4	15	1938		12.28
16	2	51.4	15	1740		582.79
17	2	86.5	15	1538		307.05
18	2	89.7	15	1300		438.1
19	1	73	15			25.3
20	3	91.1	15	1893	1527	172.2

Type 5 Radar Waveform_11

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	3	95.3	6	1905	1485	259.212
2	2	74.1	6	1505		89.063
3	2	55.6	6	1049		89.916
4	1	54	6			667.689
5	1	75.2	6			749.282
6	2	88.1	6	1787		818.585
7	3	90.6	6	1008	1550	674.668
8	3	58.1	6	1076	1453	133.022
9	2	63.8	6	1013		851.345
10	3	98.7	6	1727	1059	897.128
11	1	72.9	6			773.531
12	3	64.4	6	1688	1121	431.654
13	2	54	6	1113		23.677

Type 5 Radar Waveform_12

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	76	16	1174		53.658
2	2	73.6	16	1038		603.48
3	2	76.3	16	1202		207.98
4	2	53.2	16	1208		439.26
5	2	98.4	16	1115		597.1
6	2	85.3	16	1606		612.97
7	2	86.1	16	1157		655.43
8	1	92.5	16			338.68
9	2	78.6	16	1645		476.07
10	2	56.3	16	1779		329.68
11	2	68.1	16	1432		219.75
12	2	52.8	16	1413		508.27
13	1	67.3	16			225.43
14	2	80.5	16	1572		301.3
15	2	85	16	1979		686.3
16	1	75	16			704.9

Type 5 Radar Waveform_13

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	52.8	9	1453		440.894
2	2	85.1	9	1927		274.79
3	2	80.5	9	1079		490.25
4	2	99.9	9	1572		383.95
5	3	57.5	9	1445	1515	258.48
6	3	55.2	9	1233	1516	541.27
7	3	99.9	9	1346	1109	616.22
8	2	92.4	9	1194		670.07
9	2	93.1	9	1511		21.56
10	2	51	9	1405		334.15
11	3	65	9	1748	1079	80.31
12	2	92.2	9	1819		684.59
13	3	75.3	9	1694	1088	287.24
14	2	54.9	9	1291		203.5
15	1	96.7	9			226.7

Type 5 Radar Waveform_14

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	3	65	15	1403	1877	533.004
2	2	53.6	15	1147		738.03
3	3	72.8	15	1856	1323	118.26
4	2	62.8	15	1326		126.61
5	2	71.3	15	1373		1.13
6	1	78.2	15			28.35
7	3	77.8	15	1035	1882	695.34
8	3	97.1	15	1273	1414	892.76
9	1	64.5	15			788.67
10	2	93.6	15	1775		684.83
11	2	75.3	15	1264		454.3
12	1	81.8	15			939

Type 5 Radar Waveform_15

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	3	75	18	1593	1469	399.742
2	3	65.3	18	1319	1595	55.17
3	2	63	18	1390		975.11
4	2	85.1	18	1620		1085.34
5	3	95.8	18	1165	1747	112
6	1	64.1	18			939.04
7	3	88.4	18	1253	1462	958.64
8	2	86.4	18	1596		819.79
9	2	70.3	18	1980		267.19
10	1	92.4	18			670.3

Type 5 Radar Waveform_16

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	63.4	14	1617		16.375
2	2	56.9	14	1834		67.58
3	3	79.7	14	1046	1773	465.2
4	3	94.7	14	1684	1358	61.87
5	1	79.5	14			543.3
6	3	53.5	14	1221	1605	93.6
7	2	61	14	1734		121.09
8	2	94.6	14	1151		419.87
9	2	69.5	14	1907		431.2
10	2	53.5	14	1804		20.14
11	2	79.8	14	1622		138.06
12	1	72.2	14			247.13
13	1	71.2	14			391.76
14	1	60.8	14			546.18
15	2	58.5	14	1669		435.28
16	2	59.5	14	1986		334.14
17	2	51	14	1034		286.5
18	2	64	14	1059		158.1
19	2	89.1	14	1931		200.6
20	3	89.8	14	1573	1227	294.1

Type 5 Radar Waveform_17

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	3	94.6	18	1824	1989	372.61
2	2	81.6	18	1326		2.282
3	3	84.6	18	1983	1256	842.086
4	1	85	18			97.079
5	1	60.9	18			301.782
6	2	81	18	1778		428.675
7	2	85.3	18	1522		559.148
8	2	66.3	18	1732		1.232
9	2	86.2	18	1352		366.275
10	1	96.8	18			822.688
11	2	59.6	18	1305		284.391
12	1	95.7	18			391.454
13	1	85.1	18			80.977

Type 5 Radar Waveform_18

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	1	88	9			536.992
2	2	84.2	9	1018		418.388
3	2	64	9	1121		200.245
4	3	88.4	9	1924	1550	631.303
5	1	89.4	9			593.111
6	3	50.7	9	1802	1317	579.378
7	1	78.7	9			457.206
8	2	72.2	9	1555		104.054
9	2	90.3	9	1613		505.381
10	3	55	9	1970	1023	373.079
11	2	64.5	9	1788		75.446
12	3	63	9	1401	1149	103.584
13	2	61.5	9	1252		470.072
14	2	57.9	9	1168		120.809
15	1	87.3	9			437.147
16	1	52.7	9			674.265
17	3	83	9	1894	1776	232.082

Type 5 Radar Waveform_19

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	3	98.6	16	1600	1183	107.905
2	1	96.8	16			142.171
3	3	52.2	16	1589	1928	348.12
4	2	57.3	16	1770		694.27
5	1	99.9	16			739.52
6	2	65.7	16	1563		265.49
7	3	60.2	16	1571	1141	28.6
8	1	83.5	16			401.5
9	2	59.5	16	1294		173.35
10	2	73.1	16	1498		674.94
11	1	83.1	16			208.5
12	1	53.6	16			472.83
13	3	94.8	16	1227	1804	210
14	1	66.9	16			258.4
15	2	87.7	16	1033		102.8
16	1	58	16			375.5

Type 5 Radar Waveform_20

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	71.9	17	1696		483.42
2	3	86.7	17	1981	1269	656.887
3	2	82.1	17	1730		65.264
4	3	94.4	17	1370	1550	785.311
5	1	89.5	17			90.989
6	3	64.2	17	1323	1719	362.566
7	1	73.4	17			487.273
8	1	58.3	17			524.28
9	1	64	17			78.257
10	2	74.4	17	1627		568.684
11	3	98.2	17	1201	1611	371.391
12	2	96.1	17	1218		320.259
13	1	69.9	17			288.386
14	1	97.3	17			11.243

Type 5 Radar Waveform_21

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	3	79.6	10	1742	1589	622.515
2	2	76.6	10	1279		321.773
3	2	53.5	10	1015		610.516
4	2	90.9	10	1030		676.339
5	2	50.2	10	1354		893.812
6	1	99.8	10			369.125
7	2	86.8	10	1546		55.208
8	2	56.7	10	1348		233.742
9	1	76.2	10			745.865
10	1	74.2	10			23.958
11	2	85.7	10	1980		68.651
12	1	86	10			113.954
13	3	61.3	10	1605	1835	473.377

Type 5 Radar Waveform_22

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	65.6	11	1484		134.217
2	2	88.8	11	1157		548.67
3	1	94.2	11			387.51
4	1	66.3	11			517.23
5	2	50.1	11	1452		585.71
6	3	95.9	11	1407	1017	115.83
7	2	83.4	11	1046		335.63
8	2	54.4	11	1510		178.74
9	2	59.7	11	1594		455.87
10	2	59	11	1370		120.14
11	1	70.5	11			159.54
12	2	60.2	11	1643		222.7
13	2	59.3	11	1701		550.57
14	1	69.9	11			400.35
15	2	82.2	11	1434		169.04
16	2	92	11	1527		226.59
17	2	88.6	11	1451		457.3
18	3	68.1	11	1075	1306	459.1
19	2	59.7	11	1102		553.6
20	2	74.1	11	1591		479.1

Type 5 Radar Waveform_23

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	3	92.4	20	1462	1450	506.831
2	2	83.2	20	1177		592.008
3	2	70.9	20	1412		136.225
4	1	63.4	20			286.403
5	2	92.2	20	1693		549.671
6	2	81.5	20	1452		478.328
7	1	89.6	20			394.986
8	2	91.6	20	1434		402.624
9	1	60	20			640.361
10	2	99.4	20	1206		182.399
11	2	78	20	1310		134.286
12	1	88.8	20			70.624
13	2	61	20	1586		609.182
14	2	62.5	20	1997		552.489
15	2	64.9	20	1122		632.947
16	2	83.5	20	1077		439.565
17	2	63.8	20	1053		680.482

Type 5 Radar Waveform_24

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	1	86.7	9			234.458
2	1	90.7	9			307.9
3	2	60.1	9	1204		342.93
4	1	70.3	9			262.99
5	3	95.7	9	1469	1910	353.8
6	2	75.9	9	1992		400.9
7	3	98.3	9	1328	1030	957.36
8	2	84.5	9	1226		921.71
9	2	64.2	9	1238		774.1
10	1	98.5	9			366.44
11	3	88.8	9	1918	1201	273.7
12	3	70.3	9	1940	1465	533.8

Type 5 Radar Waveform_25

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	67.7	8	1295		309.821
2	2	84.8	8	1913		752.937
3	2	51.8	8	1433		130.043
4	2	58	8	1829		1306.9
5	3	68.8	8	1311	1596	10.727
6	2	57.4	8	1131		856.533
7	2	72.5	8	1083		1318.56
8	2	62.6	8	1663		470.587
9	2	58.4	8	1638		1186.333

Type 5 Radar Waveform_26

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	3	88.1	12	1351	1200	67.907
2	1	89.7	12			177.52
3	3	89.6	12	1603	1048	396.84
4	3	53.8	12	1319	1445	967.75
5	2	64.8	12	1826		444.53
6	1	86.1	12			665.03
7	3	54.5	12	1716	1059	118.77
8	2	75.5	12	1586		282.89
9	1	53.8	12			348.2
10	3	52.5	12	1681	1317	763.16
11	3	74	12	1643	1631	543.7
12	3	93	12	1147	1427	430.7

Type 5 Radar Waveform_27

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	60.2	13	1147		480.154
2	2	58.9	13	1707		517.401
3	2	63.5	13	1793		571.122
4	2	80.6	13	1058		239.613
5	2	77.6	13	1069		617.784
6	2	100	13	1364		137.795
7	2	89.6	13	1532		498.506
8	3	60.7	13	1238	1363	146.737
9	1	58.5	13			19.248
10	2	77.5	13	1322		264.569
11	3	86.1	13	1389	1125	355.211
12	2	93.1	13	1276		132.292
13	1	77.2	13			288.133
14	1	71.5	13			391.764
15	1	77.1	13			443.465
16	1	61.3	13			401.366
17	2	64.3	13	1595		217.537
18	2	50.6	13	1306		50.858
19	1	92.6	13			378.179

Type 5 Radar Waveform_28

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	3	64.1	13	1750	1869	713.269
2	2	98	13	1685		824.85
3	1	66.3	13			608.1
4	2	76.2	13	1172		879.6
5	2	79.6	13	1356		284.5
6	3	62.6	13	1139	1746	884.7
7	1	95	13			215.18
8	2	79.1	13	1145		980.47
9	1	75	13			430.08
10	2	56.5	13	1999		412.42
11	2	60.6	13	1761		327.3
12	2	90.2	13	1553		943.6

Type 5 Radar Waveform_29						
Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	69.2	19	1089		126.267
2	2	51.4	19	1982		930.77
3	3	51.9	19	1306	1008	1042.58
4	2	86.6	19	1168		349.25
5	3	54.2	19	1240	1668	682.35
6	3	68.2	19	1132	1168	448.6
7	1	51.3	19			606.62
8	3	50.6	19	1734	1099	469.53
9	2	64.7	19	1745		166.31
10	2	51.3	19	1121		671
Type 5 Radar Waveform_30						
Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	77.4	13	1873		102.499
2	3	65.6	13	1235	1494	193.49
3	1	61.2	13			80.53
4	3	82.4	13	1214	1675	944.69
5	3	74	13	1242	1347	395.09
6	2	96.9	13	1967		632.32
7	3	59.4	13	1859	1546	807.87
8	2	98.8	13	1999		491.64
9	2	83.5	13	1390		43.1
10	1	76.3	13			726.42
11	2	92.6	13	1062		181.8
12	2	71.4	13	1431		315.5

Product	AX1800 Wi-Fi 6 Range Extender	Temperature	27°C
Test Engineer	Kevin Ker	Relative Humidity	65%
Test Site	SR2	Test Date	2020/04/08
Test Item	Radar Statistical Performance Check (802.11ax-HE40 mode – 5510MHz) (Repeater Mode)		

Radar Type 3 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
1	5491.0	8.4	305	18	1
2	5492.3	7.7	214	17	1
3	5493.5	9.9	398	17	0
4	5494.8	6.7	403	18	0
5	5496.1	6.5	274	17	1
6	5497.3	8.4	457	17	0
7	5498.6	7.8	280	17	1
8	5500.0	8.9	493	17	0
9	5501.3	9.7	257	18	1
10	5502.5	9.2	406	16	1
11	5503.8	7.5	293	17	0
12	5505.1	8.2	257	17	1
13	5506.4	9.1	397	16	1
14	5507.6	7.0	313	17	0
15	5508.9	7.3	416	16	1
16	5510.0	8.4	335	17	1
17	5511.3	9.5	393	16	1
18	5512.6	9.0	446	16	1
19	5513.9	6.5	477	17	0
20	5515.2	9.1	221	18	1
21	5516.5	8.0	389	18	1
22	5517.9	9.8	356	17	1
23	5519.2	10.0	441	16	1
24	5520.5	6.0	382	17	1
25	5521.8	9.8	407	16	1
26	5523.0	7.7	278	17	1
27	5524.3	8.8	468	17	0
28	5525.6	9.8	320	17	1
29	5526.9	6.0	388	17	0



30	5529.0	8.7	396	17	1
Detection Percentage (%)					70%

Product	AX1800 Wi-Fi 6 Range Extender	Temperature	27°C
Test Engineer	Kevin Ker	Relative Humidity	65%
Test Site	SR2	Test Date	2020/10/28
Test Item	Radar Statistical Performance Check (802.11ax-HE80 mode – 5530MHz) (Repeater Mode)		

Radar Type 1 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
1	5491.0	1	638	83	1
2	5494.5	1	898	59	1
3	5498.1	1	658	81	1
4	5501.6	1	778	68	1
5	5505.2	1	718	74	1
6	5508.7	1	798	67	1
7	5512.3	1	758	70	1
8	5515.3	1	938	57	1
9	5518.9	1	698	76	1
10	5522.4	1	818	65	1
11	5526.0	1	838	63	1
12	5529.5	1	878	61	1
13	5530.0	1	538	98	1
14	5532.5	1	598	89	1
15	5534.0	1	738	72	1
16	5536.5	1	612	87	1
17	5539.0	1	1394	38	1
18	5541.6	1	1135	47	1
19	5544.1	1	2368	23	1
20	5546.0	1	2246	24	1
21	5548.5	1	2296	23	1
22	5551.0	1	2849	19	1
23	5553.5	1	2727	20	1
24	5556.1	1	2088	26	1
25	5558.6	1	808	66	1
26	5561.1	1	1594	34	1

Trail #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
27	5563.6	1	2621	21	0
28	5566.1	1	1706	31	1
29	5568.7	1	1599	33	1
30	5569.0	1	1201	44	1
Detection Percentage (%)					96.7%

6. CONCLUSION

The data collected relate only the item(s) tested and show that the device is in compliance with Part 15E of the FCC Rules.

The End

Appendix A - Test Setup Photograph

Refer to "2007TW0006-UT" file.

Appendix B - EUT Photograph

Refer to “2007TW0006-UE” file.