

Test Logs

FCC ID: 2ASK5AIOID5GSC03

Test Model: Nokia AIO SC Outdoor 5G n48

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1 CBSD Registration Process

1.1 WINNF.FT.C.REG.1

2026-01-20T06:11:36.467Z - INFO - WINNF TEST HARNESS RELEASE: 1.0.0.3 - 2018-November-13

2026-01-20T06:11:36.467Z - INFO - the selected test from the user : WINNF.FT.C.REG.1 is starting now

2026-01-20T06:12:08.983Z - INFO - registration request from CBRS : {

```
"registrationRequest": [
  {
    "airInterface": {
      "radioTechnology": "NR"
    },
    "cbsdCategory": "B",
    "cbsdInfo": {
      "model": "OUTDOOR",
      "softwareVersion": "OutdoorV1",
      "vendor": "Kolibri-Outdoor"
    },
    "cbsdSerialNumber": "LBNKIASRC250170725.NR",
    "fccId": "2ASK5AIOOD5GSC02",
    "measCapability": [
      "RECEIVED_POWER_WITHOUT_GRANT"
    ],
    "userId": "nokia"
  }
]
```

2026-01-20T06:12:09.005Z - INFO - engine sent successfully, the response to CBRS : {

```
"registrationResponse": [
  {
    "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
    "response": {
      "responseCode": 0
    }
  }
]
```

2026-01-20T06:12:10.483Z - INFO - arrived to nstep starting question answer session with the technician

2026-01-20T06:12:10.483Z - INFO - the question is : Were there RF transmissions from the CBSD1 during the test? please choose one of the answers :

2026-01-20T06:16:30.413Z - INFO - for the question : Were there RF transmissions from the CBSD1 during the test? , the user choose n

2026-01-20T06:16:30.742Z - INFO - The final result of the test : WINNF.FT.C.REG.1 is - passed

1.2 WINNF.FT.C.REG.8

2026-01-20T05:55:24.441Z - INFO - WINNF TEST HARNESS RELEASE: 1.0.0.3 - 2018-November-13

2026-01-20T05:55:24.441Z - INFO - the selected test from the user : WINNF.FT.C.REG.8 is starting now

2026-01-20T06:01:54.926Z - INFO - registration request from CBRS : {

```
"registrationRequest": [
  {
    "airInterface": {
      "radioTechnology": "NR"
    },
    "cbsdCategory": "B",
    "cbsdInfo": {
      "model": "OUTDOOR",
      "softwareVersion": "OutdoorV1",
      "vendor": "Kolibri-Outdoor"
    },
    "cbsdSerialNumber": "LBNKIASRC250170725.NR",
    "fccId": "2ASK5AIOOD5GSC02",
    "measCapability": [
      "RECEIVED_POWER_WITHOUT_GRANT"
    ],
    "userId": "nokia"
  }
]
```

2026-01-20T06:01:54.944Z - INFO - engine sent successfully, the response to CBRS : {

```
"registrationResponse": [
  {
    "response": {
      "responseCode": 102
    }
  }
]
```

2026-01-20T06:01:56.607Z - INFO - arrived to nstep starting question answer session with the technician

2026-01-20T06:01:56.608Z - INFO - the question is : Were there RF transmissions from the CBSD1 during the test? please choose one of the answers :

2026-01-20T06:07:22.819Z - INFO - for the question : Were there RF transmissions from the CBSD1 during the test? , the user choose n

2026-01-20T06:07:23.642Z - INFO - The final result of the test : WINNF.FT.C.REG.8 is - passed

1.3 WINNF.FT.C.REG.10

2026-01-20T06:30:18.997Z - INFO - WINNF TEST HARNESS RELEASE: 1.0.0.3 - 2018-November-13

2026-01-20T06:30:18.999Z - INFO - the selected test from the user : WINNF.FT.C.REG.10 is starting now

2026-01-20T06:30:59.497Z - INFO - registration request from CBRS : {

```
"registrationRequest": [
  {
    "airInterface": {
      "radioTechnology": "NR"
    },
    "cbsdCategory": "B",
    "cbsdInfo": {
      "model": "OUTDOOR",
      "softwareVersion": "OutdoorV1",
      "vendor": "Kolibri-Outdoor"
    },
    "cbsdSerialNumber": "LBNKIASRC250170725.NR",
    "fccId": "2ASK5AIOOD5GSC02",
    "measCapability": [
      "RECEIVED_POWER_WITHOUT_GRANT"
    ],
    "userId": "nokia"
  }
]
```

2026-01-20T06:30:59.533Z - INFO - engine sent successfully, the response to CBRS : {

```
"registrationResponse": [
  {
    "response": {
      "responseCode": 200
    }
  }
]
```

2026-01-20T06:31:01.016Z - INFO - arrived to nstep starting question answer session with the technician

2026-01-20T06:31:01.016Z - INFO - the question is : Were there RF transmissions from the CBSD1 during the test? please choose one of the answers :

2026-01-20T06:35:38.951Z - INFO - for the question : Were there RF transmissions from the CBSD1 during the test? , the user choose n

2026-01-20T06:35:39.463Z - INFO - The final result of the test : WINNF.FT.C.REG.10 is - passed

1.4 WINNF.FT.C.REG.12

2026-01-20T06:55:49.759Z - INFO - WINNF TEST HARNESS RELEASE: 1.0.0.3 - 2018-November-13

2026-01-20T06:55:49.759Z - INFO - the selected test from the user : WINNF.FT.C.REG.12 is starting now

2026-01-20T06:56:05.028Z - INFO - registration request from CBRS : {

```
"registrationRequest": [
  {
    "airInterface": {
      "radioTechnology": "NR"
    },
    "cbsdCategory": "B",
    "cbsdInfo": {
      "model": "OUTDOOR",
      "softwareVersion": "OutdoorV1",
      "vendor": "Kolibri-Outdoor"
    },
    "cbsdSerialNumber": "LBNKIASRC250170725.NR",
    "fccId": "2ASK5AIOOD5GSC02",
    "measCapability": [
      "RECEIVED_POWER_WITHOUT_GRANT"
    ],
    "userId": "nokia"
  }
]
```

2026-01-20T06:56:05.062Z - INFO - engine sent successfully, the response to CBRS : {

```
"registrationResponse": [
  {
    "response": {
      "responseCode": 103
    }
  }
]
```

2026-01-20T06:56:06.766Z - INFO - arrived to nstep starting question answer session with the technician

2026-01-20T06:56:06.767Z - INFO - the question is : Were there RF transmissions from the CBSD1 during the test? please choose one of the answers :

2026-01-20T06:59:10.595Z - INFO - for the question : Were there RF transmissions from the CBSD1 during the test? , the user choose n

2026-01-20T06:59:10.908Z - INFO - The final result of the test : WINNF.FT.C.REG.12 is - passed

1.5 WINNF.FT.C.REG.14

2026-01-20T07:12:17.369Z - INFO - WINNF TEST HARNESS RELEASE: 1.0.0.3 - 2018-November-13

2026-01-20T07:12:17.371Z - INFO - the selected test from the user : WINNF.FT.C.REG.14 is starting now

2026-01-20T07:14:41.279Z - INFO - registration request from CBRS : {

```
"registrationRequest": [
  {
    "airInterface": {
      "radioTechnology": "NR"
    },
    "cbsdCategory": "B",
    "cbsdInfo": {
      "model": "OUTDOOR",
      "softwareVersion": "OutdoorV1",
      "vendor": "Kolibri-Outdoor"
    },
    "cbsdSerialNumber": "LBNKIASRC250170725.NR",
    "fccId": "2ASK5AIOOD5GSC02",
    "measCapability": [
      "RECEIVED_POWER_WITHOUT_GRANT"
    ],
    "userId": "nokia"
  }
]
```

2026-01-20T07:14:41.321Z - INFO - engine sent successfully, the response to CBRS : {

```
"registrationResponse": [
  {
    "response": {
      "responseCode": 101
    }
  }
]
```

2026-01-20T07:14:42.427Z - INFO - arrived to nstep starting question answer session with the technician

2026-01-20T07:14:42.428Z - INFO - the question is : Were there RF transmissions from the CBSD1 during the test? please choose one of the answers :

2026-01-20T07:25:02.226Z - INFO - for the question : Were there RF transmissions from the CBSD1 during the test? , the user choose n

2026-01-20T07:25:02.753Z - INFO - The final result of the test : WINNF.FT.C.REG.14 is - passed

1.6 WINNF.FT.C.REG.16

2026-01-20T07:34:40.344Z - INFO - WINNF TEST HARNESS RELEASE: 1.0.0.3 - 2018-November-13

2026-01-20T07:34:40.345Z - INFO - the selected test from the user : WINNF.FT.C.REG.16 is starting now

2026-01-20T07:40:06.868Z - INFO - registration request from CBRS : {

```
"registrationRequest": [
  {
    "airInterface": {
      "radioTechnology": "NR"
    },
    "cbsdCategory": "B",
    "cbsdInfo": {
      "model": "OUTDOOR",
      "softwareVersion": "OutdoorV1",
      "vendor": "Kolibri-Outdoor"
    },
    "cbsdSerialNumber": "LBNKIASRC250170725.NR",
    "fccId": "2ASK5AIOOD5GSC02",
    "measCapability": [
      "RECEIVED_POWER_WITHOUT_GRANT"
    ],
    "userId": "nokia"
  }
]
```

2026-01-20T07:40:06.900Z - INFO - engine sent successfully, the response to CBRS : {

```
"registrationResponse": [
  {
    "response": {
      "responseCode": 100
    }
  }
]
```

2026-01-20T07:40:08.479Z - INFO - arrived to nstep starting question answer session with the technician

2026-01-20T07:40:08.480Z - INFO - the question is : Were there RF transmissions from the CBSD1 during the test? please choose one of the answers :

2026-01-20T07:49:26.910Z - INFO - for the question : Were there RF transmissions from the CBSD1 during the test? , the user choose n

2026-01-20T07:49:27.226Z - INFO - The final result of the test : WINNF.FT.C.REG.16 is - passed

1.7 WINNF.FT.C.REG.18

2026-01-20T08:03:57.914Z - INFO - WINNF TEST HARNESS RELEASE: 1.0.0.3 - 2018-November-13

2026-01-20T08:03:57.914Z - INFO - the selected test from the user : WINNF.FT.C.REG.18 is starting now

2026-01-20T08:08:18.529Z - INFO - registration request from CBRS : {

```
"registrationRequest": [
  {
    "airInterface": {
      "radioTechnology": "NR"
    },
    "cbsdCategory": "B",
    "cbsdInfo": {
      "model": "OUTDOOR",
      "softwareVersion": "OutdoorV1",
      "vendor": "Kolibri-Outdoor"
    },
    "cbsdSerialNumber": "LBNKIASRC250170725.NR",
    "fccId": "2ASK5AIOOD5GSC02",
    "measCapability": [
      "RECEIVED_POWER_WITHOUT_GRANT"
    ],
    "userId": "nokia"
  }
]
```

2026-01-20T08:08:18.565Z - INFO - engine sent successfully, the response to CBRS : {

```
"registrationResponse": [
  {
    "response": {
      "responseCode": 201
    }
  }
]
```

2026-01-20T08:08:20.019Z - INFO - arrived to nstep starting question answer session with the technician

2026-01-20T08:08:20.019Z - INFO - the question is : Were there RF transmissions from the CBSD1 during the test? please choose one of the answers :

2026-01-20T08:17:59.516Z - INFO - for the question : Were there RF transmissions from the CBSD1 during the test? , the user choose n

2026-01-20T08:17:59.831Z - INFO - The final result of the test : WINNF.FT.C.REG.18 is - passed

2 CBSD SPECTRUM GRANT PROCESS

2.1 WINNF.FT.C.GRA.1

2026-01-20T08:29:41.588Z - INFO - WINNF TEST HARNESS RELEASE: 1.0.0.3 - 2018-November-13

2026-01-20T08:29:41.588Z - INFO - the selected test from the user : WINNF.FT.C.GRA.1 is starting now

2026-01-20T08:34:59.321Z - INFO - registration request from CBRS : {

```
"registrationRequest": [
  {
    "airInterface": {
      "radioTechnology": "NR"
    },
    "cbsdCategory": "B",
    "cbsdInfo": {
      "model": "OUTDOOR",
      "softwareVersion": "OutdoorV1",
      "vendor": "Kolibri-Outdoor"
    },
    "cbsdSerialNumber": "LBNKIASRC250170725.NR",
    "fccId": "2ASK5AIOOD5GSC02",
    "measCapability": [
      "RECEIVED_POWER_WITHOUT_GRANT"
    ],
    "userId": "nokia"
  }
]
```

2026-01-20T08:34:59.367Z - INFO - engine sent successfully, the response to CBRS : {

```
"registrationResponse": [
  {
    "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
    "response": {
      "responseCode": 0
    }
  }
]
```

2026-01-20T08:34:59.638Z - INFO - spectrumInquiry request from CBRS : {

```
"spectrumInquiryRequest": [
  {
    "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
    "inquiredSpectrum": [
      {
        "highFrequency": 3640000000,
        "lowFrequency": 3630000000
      },
      {
        "highFrequency": 3650000000,
        "lowFrequency": 3640000000
      },
      {
        "highFrequency": 3660000000,
        "lowFrequency": 3650000000
      },
      {
        "highFrequency": 3670000000,
        "lowFrequency": 3660000000
      }
    ]
  }
]
```

```
    }  
  ],  
  "measReport": {  
    "rcvdPowerMeasReports": [  
      {  
        "measBandwidth": 10000000,  
        "measFrequency": 3550000000,  
        "measRcvdPower": -99  
      },  
      {  
        "measBandwidth": 10000000,  
        "measFrequency": 3560000000,  
        "measRcvdPower": -99  
      },  
      {  
        "measBandwidth": 10000000,  
        "measFrequency": 3570000000,  
        "measRcvdPower": -99  
      },  
      {  
        "measBandwidth": 10000000,  
        "measFrequency": 3580000000,  
        "measRcvdPower": -99  
      },  
      {  
        "measBandwidth": 10000000,  
        "measFrequency": 3590000000,  
        "measRcvdPower": -99  
      },  
      {  
        "measBandwidth": 10000000,  
        "measFrequency": 3600000000,  
        "measRcvdPower": -99  
      },  
      {  
        "measBandwidth": 10000000,  
        "measFrequency": 3610000000,  
        "measRcvdPower": -99  
      },  
      {  
        "measBandwidth": 10000000,  
        "measFrequency": 3620000000,  
        "measRcvdPower": -99  
      },  
      {  
        "measBandwidth": 10000000,  
        "measFrequency": 3630000000,  
        "measRcvdPower": -99  
      },  
      {  
        "measBandwidth": 10000000,  
        "measFrequency": 3640000000,  
        "measRcvdPower": -99  
      },  
      {  
        "measBandwidth": 10000000,  
        "measFrequency": 3650000000,  
        "measRcvdPower": -99  
      }  
    ]  
  }  
}
```

```

    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3660000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3670000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3680000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3690000000,
      "measRcvdPower": -99
    }
  ]
}

2026-01-20T08:34:59.648Z - INFO - engine sent successfully, the response to CBRS : {
  "spectrumInquiryResponse": [
    {
      "availableChannel": [
        {
          "channelType": "GAA",
          "frequencyRange": {
            "highFrequency": 3640000000,
            "lowFrequency": 3630000000
          },
          "ruleApplied": "FCC_PART_96"
        },
        {
          "channelType": "GAA",
          "frequencyRange": {
            "highFrequency": 3650000000,
            "lowFrequency": 3640000000
          },
          "ruleApplied": "FCC_PART_96"
        },
        {
          "channelType": "GAA",
          "frequencyRange": {
            "highFrequency": 3660000000,
            "lowFrequency": 3650000000
          },
          "ruleApplied": "FCC_PART_96"
        },
        {
          "channelType": "GAA",
          "frequencyRange": {
            "highFrequency": 3670000000,

```

```

        "lowFrequency": 3660000000
      },
      "ruleApplied": "FCC_PART_96"
    }
  ],
  "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
  "response": {
    "responseCode": 0
  }
}
]
}
2026-01-20T08:34:59.871Z - INFO - grant request from CBRS : {
  "grantRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "measReport": {
        "rcvdPowerMeasReports": [
          {
            "measBandwidth": 10000000,
            "measFrequency": 3550000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3560000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3570000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3580000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3590000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3600000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3610000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3620000000,
            "measRcvdPower": -99
          }
        ]
      }
    }
  ]
}

```

```

        {
            "measBandwidth": 10000000,
            "measFrequency": 3630000000,
            "measRcvdPower": -99
        },
        {
            "measBandwidth": 10000000,
            "measFrequency": 3640000000,
            "measRcvdPower": -99
        },
        {
            "measBandwidth": 10000000,
            "measFrequency": 3650000000,
            "measRcvdPower": -99
        },
        {
            "measBandwidth": 10000000,
            "measFrequency": 3660000000,
            "measRcvdPower": -99
        },
        {
            "measBandwidth": 10000000,
            "measFrequency": 3670000000,
            "measRcvdPower": -99
        },
        {
            "measBandwidth": 10000000,
            "measFrequency": 3680000000,
            "measRcvdPower": -99
        },
        {
            "measBandwidth": 10000000,
            "measFrequency": 3690000000,
            "measRcvdPower": -99
        }
    ]
},
"operationParam": {
    "maxEirp": 37.0,
    "operationFrequencyRange": {
        "highFrequency": 3670000000,
        "lowFrequency": 3630000000
    }
}
}
]
}
2026-01-20T08:34:59.881Z - INFO - engine sent successfully, the response to CBRS : {
    "grantResponse": [
        {
            "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
            "response": {
                "responseCode": 400
            }
        }
    ]
}
2026-01-20T08:35:01.726Z - INFO - arrived to nstep starting question answer session with the technician

```

2026-01-20T08:35:01.726Z - INFO - the question is : Were there RF transmissions from the CBSD1 during the test? please choose one of the answers :

2026-01-20T08:52:13.048Z - INFO - for the question : Were there RF transmissions from the CBSD1 during the test? , the user choose n

2026-01-20T08:52:13.387Z - INFO - The final result of the test : WINNF.FT.C.GRA.1 is - passed

2.2 WINNF.FT.C.GRA.2

2026-01-20T09:11:57.875Z - INFO - WINNF TEST HARNESS RELEASE: 1.0.0.3 - 2018-November-13

2026-01-20T09:11:57.875Z - INFO - the selected test from the user : WINNF.FT.C.GRA.2 is starting now

2026-01-20T09:18:20.233Z - INFO - registration request from CBRS : {

```
"registrationRequest": [
  {
    "airInterface": {
      "radioTechnology": "NR"
    },
    "cbsdCategory": "B",
    "cbsdInfo": {
      "model": "OUTDOOR",
      "softwareVersion": "OutdoorV1",
      "vendor": "Kolibri-Outdoor"
    },
    "cbsdSerialNumber": "LBNKIASRC250170725.NR",
    "fccId": "2ASK5AIOOD5GSC02",
    "measCapability": [
      "RECEIVED_POWER_WITHOUT_GRANT"
    ],
    "userId": "nokia"
  }
]
```

2026-01-20T09:18:20.276Z - INFO - engine sent successfully, the response to CBRS : {

```
"registrationResponse": [
  {
    "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
    "response": {
      "responseCode": 0
    }
  }
]
```

2026-01-20T09:18:20.539Z - INFO - spectrumInquiry request from CBRS : {

```
"spectrumInquiryRequest": [
  {
    "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
    "inquiredSpectrum": [
      {
        "highFrequency": 3640000000,
        "lowFrequency": 3630000000
      },
      {
        "highFrequency": 3650000000,
        "lowFrequency": 3640000000
      },
      {
        "highFrequency": 3660000000,
        "lowFrequency": 3650000000
      },
      {
        "highFrequency": 3670000000,
        "lowFrequency": 3660000000
      }
    ]
  }
]
```

```
],
"measReport": {
  "rcvdPowerMeasReports": [
    {
      "measBandwidth": 10000000,
      "measFrequency": 3550000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3560000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3570000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3580000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3590000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3600000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3610000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3620000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3630000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3640000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3650000000,
      "measRcvdPower": -99
    }
  ]
}
```

```

    {
      "measBandwidth": 10000000,
      "measFrequency": 3660000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3670000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3680000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3690000000,
      "measRcvdPower": -99
    }
  ]
}

2026-01-20T09:18:20.551Z - INFO - engine sent successfully, the response to CBRS : {
  "spectrumInquiryResponse": [
    {
      "availableChannel": [
        {
          "channelType": "GAA",
          "frequencyRange": {
            "highFrequency": 3640000000,
            "lowFrequency": 3630000000
          },
          "ruleApplied": "FCC_PART_96"
        },
        {
          "channelType": "GAA",
          "frequencyRange": {
            "highFrequency": 3650000000,
            "lowFrequency": 3640000000
          },
          "ruleApplied": "FCC_PART_96"
        },
        {
          "channelType": "GAA",
          "frequencyRange": {
            "highFrequency": 3660000000,
            "lowFrequency": 3650000000
          },
          "ruleApplied": "FCC_PART_96"
        }
      ]
    }
  ]
}

```

```

    },
    "ruleApplied": "FCC_PART_96"
  }
],
"cbstdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
"response": {
  "responseCode": 0
}
}
]
}
2026-01-20T09:18:20.776Z - INFO - grant request from CBRS : {
  "grantRequest": [
    {
      "cbstdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "measReport": {
        "rcvdPowerMeasReports": [
          {
            "measBandwidth": 10000000,
            "measFrequency": 3550000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3560000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3570000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3580000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3590000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3600000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3610000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3620000000,
            "measRcvdPower": -99
          }
        ]
      }
    }
  ]
}

```

```

        "measBandwidth": 10000000,
        "measFrequency": 3630000000,
        "measRcvdPower": -99
    },
    {
        "measBandwidth": 10000000,
        "measFrequency": 3640000000,
        "measRcvdPower": -99
    },
    {
        "measBandwidth": 10000000,
        "measFrequency": 3650000000,
        "measRcvdPower": -99
    },
    {
        "measBandwidth": 10000000,
        "measFrequency": 3660000000,
        "measRcvdPower": -99
    },
    {
        "measBandwidth": 10000000,
        "measFrequency": 3670000000,
        "measRcvdPower": -99
    },
    {
        "measBandwidth": 10000000,
        "measFrequency": 3680000000,
        "measRcvdPower": -99
    },
    {
        "measBandwidth": 10000000,
        "measFrequency": 3690000000,
        "measRcvdPower": -99
    }
]
},
"operationParam": {
    "maxEirp": 37.0,
    "operationFrequencyRange": {
        "highFrequency": 3670000000,
        "lowFrequency": 3630000000
    }
}
}
]
}
2026-01-20T09:18:20.785Z - INFO - engine sent successfully, the response to CBRS : {
    "grantResponse": [
        {
            "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
            "response": {
                "responseCode": 401
            }
        }
    ]
}
}
2026-01-20T09:18:22.045Z - INFO - arrived to nstep starting question answer session with the technician
2026-01-20T09:18:22.046Z - INFO - the question is : Were there RF transmissions from the CBSD1 during

```

the test? please choose one of the answers :

2026-01-20T09:25:26.525Z - INFO - for the question : Were there RF transmissions from the CBSD1 during the test? , the user choose n

2026-01-20T09:25:26.740Z - INFO - The final result of the test : WINNF.FT.C.GRA.2 is - passed

3 CBSD Heart Beat Process

3.1 WINNF.FT.C.HBT.1

2026-01-20T09:29:16.144Z - INFO - WINNF TEST HARNESS RELEASE: 1.0.0.3 - 2018-November-13

2026-01-20T09:29:16.144Z - INFO - the selected test from the user : WINNF.FT.C.HBT.1 is starting now

2026-01-20T09:35:52.539Z - INFO - registration request from CBRS : {

```
"registrationRequest": [
  {
    "airInterface": {
      "radioTechnology": "NR"
    },
    "cbsdCategory": "B",
    "cbsdInfo": {
      "model": "OUTDOOR",
      "softwareVersion": "OutdoorV1",
      "vendor": "Kolibri-Outdoor"
    },
    "cbsdSerialNumber": "LBNKIASRC250170725.NR",
    "fccId": "2ASK5AIOOD5GSC02",
    "measCapability": [
      "RECEIVED_POWER_WITHOUT_GRANT"
    ],
    "userId": "nokia"
  }
]
```

2026-01-20T09:35:52.599Z - INFO - engine sent successfully, the response to CBRS : {

```
"registrationResponse": [
  {
    "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
    "response": {
      "responseCode": 0
    }
  }
]
```

2026-01-20T09:35:52.865Z - INFO - spectrumInquiry request from CBRS : {

```
"spectrumInquiryRequest": [
  {
    "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
    "inquiredSpectrum": [
      {
        "highFrequency": 3640000000,
        "lowFrequency": 3630000000
      },
      {
        "highFrequency": 3650000000,
        "lowFrequency": 3640000000
      },
      {
        "highFrequency": 3660000000,
        "lowFrequency": 3650000000
      },
      {
        "highFrequency": 3670000000,
        "lowFrequency": 3660000000
      }
    ]
  }
]
```

```
],
"measReport": {
  "rcvdPowerMeasReports": [
    {
      "measBandwidth": 10000000,
      "measFrequency": 3550000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3560000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3570000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3580000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3590000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3600000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3610000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3620000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3630000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3640000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3650000000,
      "measRcvdPower": -99
    }
  ]
}
```

```

        {
            "measBandwidth": 10000000,
            "measFrequency": 3660000000,
            "measRcvdPower": -99
        },
        {
            "measBandwidth": 10000000,
            "measFrequency": 3670000000,
            "measRcvdPower": -99
        },
        {
            "measBandwidth": 10000000,
            "measFrequency": 3680000000,
            "measRcvdPower": -99
        },
        {
            "measBandwidth": 10000000,
            "measFrequency": 3690000000,
            "measRcvdPower": -99
        }
    ]
}

2026-01-20T09:35:52.875Z - INFO - engine sent successfully, the response to CBRS : {
    "spectrumInquiryResponse": [
        {
            "availableChannel": [
                {
                    "channelType": "GAA",
                    "frequencyRange": {
                        "highFrequency": 3640000000,
                        "lowFrequency": 3630000000
                    },
                    "ruleApplied": "FCC_PART_96"
                },
                {
                    "channelType": "GAA",
                    "frequencyRange": {
                        "highFrequency": 3650000000,
                        "lowFrequency": 3640000000
                    },
                    "ruleApplied": "FCC_PART_96"
                },
                {
                    "channelType": "GAA",
                    "frequencyRange": {
                        "highFrequency": 3660000000,
                        "lowFrequency": 3650000000
                    },
                    "ruleApplied": "FCC_PART_96"
                },
                {
                    "channelType": "GAA",
                    "frequencyRange": {
                        "highFrequency": 3670000000,
                        "lowFrequency": 3660000000
                    },
                    "ruleApplied": "FCC_PART_96"
                }
            ]
        }
    ]
}

```

```

    },
    "ruleApplied": "FCC_PART_96"
  }
],
"cbstdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
"response": {
  "responseCode": 0
}
}
]
}
2026-01-20T09:35:53.111Z - INFO - grant request from CBRS : {
  "grantRequest": [
    {
      "cbstdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "measReport": {
        "rcvdPowerMeasReports": [
          {
            "measBandwidth": 10000000,
            "measFrequency": 3550000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3560000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3570000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3580000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3590000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3600000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3610000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3620000000,
            "measRcvdPower": -99
          }
        ]
      }
    }
  ]
}

```

```

        "measBandwidth": 10000000,
        "measFrequency": 3630000000,
        "measRcvdPower": -99
    },
    {
        "measBandwidth": 10000000,
        "measFrequency": 3640000000,
        "measRcvdPower": -99
    },
    {
        "measBandwidth": 10000000,
        "measFrequency": 3650000000,
        "measRcvdPower": -99
    },
    {
        "measBandwidth": 10000000,
        "measFrequency": 3660000000,
        "measRcvdPower": -99
    },
    {
        "measBandwidth": 10000000,
        "measFrequency": 3670000000,
        "measRcvdPower": -99
    },
    {
        "measBandwidth": 10000000,
        "measFrequency": 3680000000,
        "measRcvdPower": -99
    },
    {
        "measBandwidth": 10000000,
        "measFrequency": 3690000000,
        "measRcvdPower": -99
    }
]
},
"operationParam": {
    "maxEirp": 37.0,
    "operationFrequencyRange": {
        "highFrequency": 3670000000,
        "lowFrequency": 3630000000
    }
}
}
]
}
}
2026-01-20T09:35:53.118Z - INFO - engine sent successfully, the response to CBRS : {
    "grantResponse": [
        {
            "cbsId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
            "channelType": "GAA",
            "grantExpireTime": "2026-01-27T09:35:53Z",
            "grantId": "487422929",
            "heartbeatInterval": 60,
            "response": {
                "responseCode": 0
            }
        }
    ]
}

```

```

    ]
  }
  2026-01-20T09:35:53.448Z - INFO - heartbeat request from CBRS : {
    "heartbeatRequest": [
      {
        "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
        "grantId": "487422929",
        "grantRenew": false,
        "operationState": "GRANTED"
      }
    ]
  }
  2026-01-20T09:35:53.457Z - INFO - engine sent successfully, the response to CBRS : {
    "heartbeatResponse": [
      {
        "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
        "grantId": "487422929",
        "response": {
          "responseCode": 0
        },
        "transmitExpireTime": "2026-01-20T09:39:13Z"
      }
    ]
  }
  2026-01-20T09:36:47.723Z - INFO - heartbeat request from CBRS : {
    "heartbeatRequest": [
      {
        "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
        "grantId": "487422929",
        "grantRenew": false,
        "operationState": "AUTHORIZED"
      }
    ]
  }
  2026-01-20T09:36:47.724Z - INFO - Time interval between two heartbeat request messages is: 54.274, limit
  is: 65.0
  2026-01-20T09:36:47.730Z - INFO - engine sent successfully, the response to CBRS : {
    "heartbeatResponse": [
      {
        "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
        "grantId": "487422929",
        "response": {
          "responseCode": 0
        },
        "transmitExpireTime": "2026-01-20T09:40:07Z"
      }
    ]
  }
  2026-01-20T09:37:42.009Z - INFO - heartbeat request from CBRS : {
    "heartbeatRequest": [
      {
        "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
        "grantId": "487422929",
        "grantRenew": false,
        "operationState": "AUTHORIZED"
      }
    ]
  }

```

2026-01-20T09:37:42.010Z - INFO - Time interval between two heartbeat request messages is: 54.287, limit is: 65.0

2026-01-20T09:37:42.016Z - INFO - engine sent successfully, the response to CBRS : {

```
"heartbeatResponse": [
  {
    "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
    "grantId": "487422929",
    "response": {
      "responseCode": 0
    },
    "transmitExpireTime": "2026-01-20T09:41:02Z"
  }
]
```

2026-01-20T09:38:36.302Z - INFO - heartbeat request from CBRS : {

```
"heartbeatRequest": [
  {
    "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
    "grantId": "487422929",
    "grantRenew": false,
    "operationState": "AUTHORIZED"
  }
]
```

2026-01-20T09:38:36.303Z - INFO - Time interval between two heartbeat request messages is: 54.292, limit is: 65.0

2026-01-20T09:38:36.309Z - INFO - engine sent successfully, the response to CBRS : {

```
"heartbeatResponse": [
  {
    "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
    "grantId": "487422929",
    "response": {
      "responseCode": 0
    },
    "transmitExpireTime": "2026-01-20T09:41:56Z"
  }
]
```

2026-01-20T09:39:30.582Z - INFO - heartbeat request from CBRS : {

```
"heartbeatRequest": [
  {
    "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
    "grantId": "487422929",
    "grantRenew": false,
    "operationState": "AUTHORIZED"
  }
]
```

2026-01-20T09:39:30.582Z - INFO - Time interval between two heartbeat request messages is: 54.28, limit is: 65.0

2026-01-20T09:39:30.588Z - INFO - engine sent successfully, the response to CBRS : {

```
"heartbeatResponse": [
  {
    "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
    "grantId": "487422929",
    "response": {
      "responseCode": 0
    },
  },
]
```

```

    "transmitExpireTime": "2026-01-20T09:42:50Z"
  }
]
}
2026-01-20T09:40:24.868Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "487422929",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2026-01-20T09:40:24.871Z - INFO - Time interval between two heartbeat request messages is: 54.287, limit
is: 65.0
2026-01-20T09:40:24.877Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "487422929",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2026-01-20T09:43:44Z"
    }
  ]
}
2026-01-20T09:40:26.426Z - INFO - arrived to nstep starting question answer session with the technician
2026-01-20T09:40:26.427Z - INFO - the question is : Did CBSD1 transmit power prior to AUTHORIZED state
(first successful HBT response)? please choose one of the answers :
2026-01-20T10:03:47.663Z - INFO - for the question : Did CBSD1 transmit power prior to AUTHORIZED state
(first successful HBT response)? , the user choose n
2026-01-20T10:03:47.667Z - INFO - the question is : Did CBSD1 transmit only within the frequency range
specified in its grantRequest message? please choose one of the answers :
2026-01-20T10:03:48.921Z - INFO - for the question : Did CBSD1 transmit only within the frequency range
specified in its grantRequest message? , the user choose y
2026-01-20T10:03:50.000Z - INFO - The final result of the test : WINNF.FT.C.HBT.1 is - passed

```

3.2 WINNF.FT.C.HBT.3

2026-01-20T10:49:20.045Z - INFO - WINNF TEST HARNESS RELEASE: 1.0.0.3 - 2018-November-13

2026-01-20T10:49:20.045Z - INFO - the selected test from the user : WINNF.FT.C.HBT.3 is starting now

2026-01-20T10:49:26.309Z - INFO - registration request from CBRS : {

```
"registrationRequest": [
  {
    "airInterface": {
      "radioTechnology": "NR"
    },
    "cbsdCategory": "B",
    "cbsdInfo": {
      "model": "OUTDOOR",
      "softwareVersion": "OutdoorV1",
      "vendor": "Kolibri-Outdoor"
    },
    "cbsdSerialNumber": "LBNKIASRC250170725.NR",
    "fccId": "2ASK5AIOOD5GSC02",
    "measCapability": [
      "RECEIVED_POWER_WITHOUT_GRANT"
    ],
    "userId": "nokia"
  }
]
```

2026-01-20T10:49:26.358Z - INFO - engine sent successfully, the response to CBRS : {

```
"registrationResponse": [
  {
    "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
    "response": {
      "responseCode": 0
    }
  }
]
```

2026-01-20T10:49:26.641Z - INFO - spectrumInquiry request from CBRS : {

```
"spectrumInquiryRequest": [
  {
    "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
    "inquiredSpectrum": [
      {
        "highFrequency": 3640000000,
        "lowFrequency": 3630000000
      },
      {
        "highFrequency": 3650000000,
        "lowFrequency": 3640000000
      },
      {
        "highFrequency": 3660000000,
        "lowFrequency": 3650000000
      },
      {
        "highFrequency": 3670000000,
        "lowFrequency": 3660000000
      }
    ]
  }
]
```

```
],
"measReport": {
  "rcvdPowerMeasReports": [
    {
      "measBandwidth": 10000000,
      "measFrequency": 3550000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3560000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3570000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3580000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3590000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3600000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3610000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3620000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3630000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3640000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3650000000,
      "measRcvdPower": -99
    }
  ]
}
```

```

        {
            "measBandwidth": 10000000,
            "measFrequency": 3660000000,
            "measRcvdPower": -99
        },
        {
            "measBandwidth": 10000000,
            "measFrequency": 3670000000,
            "measRcvdPower": -99
        },
        {
            "measBandwidth": 10000000,
            "measFrequency": 3680000000,
            "measRcvdPower": -99
        },
        {
            "measBandwidth": 10000000,
            "measFrequency": 3690000000,
            "measRcvdPower": -99
        }
    ]
}

2026-01-20T10:49:26.654Z - INFO - engine sent successfully, the response to CBRS : {
  "spectrumInquiryResponse": [
    {
      "availableChannel": [
        {
          "channelType": "GAA",
          "frequencyRange": {
            "highFrequency": 3640000000,
            "lowFrequency": 3630000000
          },
          "ruleApplied": "FCC_PART_96"
        },
        {
          "channelType": "GAA",
          "frequencyRange": {
            "highFrequency": 3650000000,
            "lowFrequency": 3640000000
          },
          "ruleApplied": "FCC_PART_96"
        },
        {
          "channelType": "GAA",
          "frequencyRange": {
            "highFrequency": 3660000000,
            "lowFrequency": 3650000000
          },
          "ruleApplied": "FCC_PART_96"
        },
        {
          "channelType": "GAA",
          "frequencyRange": {
            "highFrequency": 3670000000,
            "lowFrequency": 3660000000
          },
          "ruleApplied": "FCC_PART_96"
        }
      ]
    }
  ]
}

```

```

    },
    "ruleApplied": "FCC_PART_96"
  }
],
"cbstdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
"response": {
  "responseCode": 0
}
}
]
}
2026-01-20T10:49:26.894Z - INFO - grant request from CBRS : {
  "grantRequest": [
    {
      "cbstdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "measReport": {
        "rcvdPowerMeasReports": [
          {
            "measBandwidth": 10000000,
            "measFrequency": 3550000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3560000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3570000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3580000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3590000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3600000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3610000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3620000000,
            "measRcvdPower": -99
          }
        ]
      }
    }
  ]
}

```

```

        "measBandwidth": 10000000,
        "measFrequency": 3630000000,
        "measRcvdPower": -99
    },
    {
        "measBandwidth": 10000000,
        "measFrequency": 3640000000,
        "measRcvdPower": -99
    },
    {
        "measBandwidth": 10000000,
        "measFrequency": 3650000000,
        "measRcvdPower": -99
    },
    {
        "measBandwidth": 10000000,
        "measFrequency": 3660000000,
        "measRcvdPower": -99
    },
    {
        "measBandwidth": 10000000,
        "measFrequency": 3670000000,
        "measRcvdPower": -99
    },
    {
        "measBandwidth": 10000000,
        "measFrequency": 3680000000,
        "measRcvdPower": -99
    },
    {
        "measBandwidth": 10000000,
        "measFrequency": 3690000000,
        "measRcvdPower": -99
    }
]
},
"operationParam": {
    "maxEirp": 37.0,
    "operationFrequencyRange": {
        "highFrequency": 3670000000,
        "lowFrequency": 3630000000
    }
}
}
]
}
}
2026-01-20T10:49:26.901Z - INFO - engine sent successfully, the response to CBRS : {
    "grantResponse": [
        {
            "cbsId": "2ASK5AIOOD5GSC02Mock-SASLBKNIASRC250170725.NR",
            "channelType": "GAA",
            "grantExpireTime": "2026-01-27T10:49:26Z",
            "grantId": "475794926",
            "heartbeatInterval": 60,
            "response": {
                "responseCode": 0
            }
        }
    ]
}

```

```

    ]
  }
2026-01-20T10:49:27.217Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "475794926",
      "grantRenew": false,
      "operationState": "GRANTED"
    }
  ]
}
2026-01-20T10:49:27.223Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "475794926",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2026-01-20T10:52:47Z"
    }
  ]
}
2026-01-20T10:50:21.539Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "475794926",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2026-01-20T10:50:21.539Z - INFO - Time interval between two heartbeat request messages is: 54.322, limit
is: 65.0
2026-01-20T10:50:21.546Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "475794926",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2026-01-20T10:53:41Z"
    }
  ]
}
2026-01-20T10:51:15.839Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "475794926",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}

```

2026-01-20T10:51:15.841Z - INFO - Time interval between two heartbeat request messages is: 54.301, limit is: 65.0

2026-01-20T10:51:15.846Z - INFO - engine sent successfully, the response to CBRS : {

```
"heartbeatResponse": [
  {
    "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
    "grantId": "475794926",
    "response": {
      "responseCode": 0
    },
    "transmitExpireTime": "2026-01-20T10:54:35Z"
  }
]
```

2026-01-20T10:52:10.124Z - INFO - heartbeat request from CBRS : {

```
"heartbeatRequest": [
  {
    "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
    "grantId": "475794926",
    "grantRenew": false,
    "operationState": "AUTHORIZED"
  }
]
```

2026-01-20T10:52:10.125Z - INFO - Time interval between two heartbeat request messages is: 54.284, limit is: 65.0

2026-01-20T10:52:10.131Z - INFO - engine sent successfully, the response to CBRS : {

```
"heartbeatResponse": [
  {
    "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
    "grantId": "475794926",
    "response": {
      "responseCode": 105
    },
    "transmitExpireTime": "2026-01-20T10:52:10Z"
  }
]
```

2026-01-20T10:52:12.114Z - INFO - arrived to nstep starting question answer session with the technician

2026-01-20T10:52:12.115Z - INFO - the question is : Did the CBSD stop RF transmission within 60 seconds of receiving Heartbeat response with responseCode = 105? please choose one of the answers :

2026-01-20T10:54:06.078Z - INFO - for the question : Did the CBSD stop RF transmission within 60 seconds of receiving Heartbeat response with responseCode = 105? , the user choose y

2026-01-20T10:54:06.757Z - INFO - The final result of the test : WINNF.FT.C.HBT.3 is - passed

3.3 WINNF.FT.C.HBT.4

2026-01-21T05:56:58.220Z - INFO - WINNF TEST HARNESS RELEASE: 1.0.0.3 - 2018-November-13

2026-01-21T05:56:58.221Z - INFO - the selected test from the user : WINNF.FT.C.HBT.4 is starting now

2026-01-21T05:57:26.272Z - INFO - registration request from CBRS : {

```
"registrationRequest": [
  {
    "airInterface": {
      "radioTechnology": "NR"
    },
    "cbsdCategory": "B",
    "cbsdInfo": {
      "model": "OUTDOOR",
      "softwareVersion": "OutdoorV1",
      "vendor": "Kolibri-Outdoor"
    },
    "cbsdSerialNumber": "LBNKIASRC250170725.NR",
    "fccId": "2ASK5AIOOD5GSC02",
    "measCapability": [
      "RECEIVED_POWER_WITHOUT_GRANT"
    ],
    "userId": "nokia"
  }
]
```

2026-01-21T05:57:26.332Z - INFO - engine sent successfully, the response to CBRS : {

```
"registrationResponse": [
  {
    "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
    "response": {
      "responseCode": 0
    }
  }
]
```

2026-01-21T05:57:26.658Z - INFO - spectrumInquiry request from CBRS : {

```
"spectrumInquiryRequest": [
  {
    "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
    "inquiredSpectrum": [
      {
        "highFrequency": 3640000000,
        "lowFrequency": 3630000000
      },
      {
        "highFrequency": 3650000000,
        "lowFrequency": 3640000000
      },
      {
        "highFrequency": 3660000000,
        "lowFrequency": 3650000000
      },
      {
        "highFrequency": 3670000000,
        "lowFrequency": 3660000000
      }
    ]
  }
]
```

```
],
"measReport": {
  "rcvdPowerMeasReports": [
    {
      "measBandwidth": 10000000,
      "measFrequency": 3550000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3560000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3570000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3580000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3590000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3600000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3610000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3620000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3630000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3640000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3650000000,
      "measRcvdPower": -99
    }
  ]
}
```

```

    {
      "measBandwidth": 10000000,
      "measFrequency": 3660000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3670000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3680000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3690000000,
      "measRcvdPower": -99
    }
  ]
}
]
}
]
}
}
2026-01-21T05:57:26.670Z - INFO - engine sent successfully, the response to CBRS : {
  "spectrumInquiryResponse": [
    {
      "availableChannel": [
        {
          "channelType": "GAA",
          "frequencyRange": {
            "highFrequency": 3640000000,
            "lowFrequency": 3630000000
          },
          "ruleApplied": "FCC_PART_96"
        },
        {
          "channelType": "GAA",
          "frequencyRange": {
            "highFrequency": 3650000000,
            "lowFrequency": 3640000000
          },
          "ruleApplied": "FCC_PART_96"
        },
        {
          "channelType": "GAA",
          "frequencyRange": {
            "highFrequency": 3660000000,
            "lowFrequency": 3650000000
          },
          "ruleApplied": "FCC_PART_96"
        },
        {
          "channelType": "GAA",
          "frequencyRange": {
            "highFrequency": 3670000000,
            "lowFrequency": 3660000000
          },
          "ruleApplied": "FCC_PART_96"
        }
      ]
    }
  ]
}

```

```

    },
    "ruleApplied": "FCC_PART_96"
  }
],
"cbstdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
"response": {
  "responseCode": 0
}
}
]
}
2026-01-21T05:57:26.927Z - INFO - grant request from CBRS : {
  "grantRequest": [
    {
      "cbstdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "measReport": {
        "rcvdPowerMeasReports": [
          {
            "measBandwidth": 10000000,
            "measFrequency": 3550000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3560000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3570000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3580000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3590000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3600000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3610000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3620000000,
            "measRcvdPower": -99
          }
        ]
      }
    }
  ]
}

```

```

    "measBandwidth": 10000000,
    "measFrequency": 3630000000,
    "measRcvdPower": -99
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3640000000,
    "measRcvdPower": -99
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3650000000,
    "measRcvdPower": -99
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3660000000,
    "measRcvdPower": -99
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3670000000,
    "measRcvdPower": -99
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3680000000,
    "measRcvdPower": -99
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3690000000,
    "measRcvdPower": -99
  }
}

```

```
2026-01-21T05:57:26.938Z - INFO - engine sent successfully, the response to CBR5 : {
  "grantResponse": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "channelType": "GAA",
      "grantExpireTime": "2026-01-28T05:57:26Z",
      "grantId": "813659448",
      "heartbeatInterval": 60,
      "response": {
        "responseCode": 0
      }
    }
  ]
}
```

```

    ]
  }
2026-01-21T05:57:27.273Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "813659448",
      "grantRenew": false,
      "operationState": "GRANTED"
    }
  ]
}
2026-01-21T05:57:27.280Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "813659448",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2026-01-21T06:00:47Z"
    }
  ]
}
2026-01-21T05:58:21.555Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "813659448",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2026-01-21T05:58:21.555Z - INFO - Time interval between two heartbeat request messages is: 54.282, limit
is: 65.0
2026-01-21T05:58:21.562Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "813659448",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2026-01-21T06:01:41Z"
    }
  ]
}
2026-01-21T05:59:15.852Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "813659448",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}

```

```
2026-01-21T05:59:15.854Z - INFO - Time interval between two heartbeat request messages is: 54.298, limit is: 65.0
2026-01-21T05:59:15.859Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "813659448",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2026-01-21T06:02:35Z"
    }
  ]
}
2026-01-21T06:00:10.213Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "813659448",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2026-01-21T06:00:10.213Z - INFO - Time interval between two heartbeat request messages is: 54.36, limit is: 65.0
2026-01-21T06:00:10.220Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "813659448",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2026-01-21T06:03:30Z"
    }
  ]
}
2026-01-21T06:01:04.500Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "813659448",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2026-01-21T06:01:04.502Z - INFO - Time interval between two heartbeat request messages is: 54.287, limit is: 65.0
2026-01-21T06:01:04.506Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "813659448",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2026-01-21T06:03:30Z"
    }
  ]
}
```

```

    "transmitExpireTime": "2026-01-21T06:04:24Z"
  }
]
}
2026-01-21T06:01:58.786Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBKNIASRC250170725.NR",
      "grantId": "813659448",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2026-01-21T06:01:58.788Z - INFO - Time interval between two heartbeat request messages is: 54.287, limit
is: 65.0
2026-01-21T06:01:58.793Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBKNIASRC250170725.NR",
      "grantId": "813659448",
      "response": {
        "responseCode": 500
      },
      "transmitExpireTime": "2026-01-21T06:01:58Z"
    }
  ]
}
2026-01-21T06:02:00.354Z - INFO - arrived to nstep starting question answer session with the technician
2026-01-21T06:02:00.355Z - INFO - the question is : Did the CBSD1 stop RF transmission within 60 seconds
of receiving Heartbeat response with responseCode = 500? please choose one of the answers :
2026-01-21T06:06:17.703Z - INFO - for the question : Did the CBSD1 stop RF transmission within 60
seconds of receiving Heartbeat response with responseCode = 500? , the user choose y
2026-01-21T06:06:17.987Z - INFO - The final result of the test : WINNF.FT.C.HBT.4 is - passed

```

3.4 WINNF.FT.C.HBT.5

2026-01-21T06:11:27.872Z - INFO - WINNF TEST HARNESS RELEASE: 1.0.0.3 - 2018-November-13

2026-01-21T06:11:27.874Z - INFO - the selected test from the user : WINNF.FT.C.HBT.5 is starting now

2026-01-21T06:18:11.433Z - INFO - registration request from CBRS : {

```
"registrationRequest": [
  {
    "airInterface": {
      "radioTechnology": "NR"
    },
    "cbsdCategory": "B",
    "cbsdInfo": {
      "model": "OUTDOOR",
      "softwareVersion": "OutdoorV1",
      "vendor": "Kolibri-Outdoor"
    },
    "cbsdSerialNumber": "LBNKIASRC250170725.NR",
    "fccId": "2ASK5AIOOD5GSC02",
    "measCapability": [
      "RECEIVED_POWER_WITHOUT_GRANT"
    ],
    "userId": "nokia"
  }
]
```

2026-01-21T06:18:11.489Z - INFO - engine sent successfully, the response to CBRS : {

```
"registrationResponse": [
  {
    "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
    "response": {
      "responseCode": 0
    }
  }
]
```

2026-01-21T06:18:11.766Z - INFO - spectrumInquiry request from CBRS : {

```
"spectrumInquiryRequest": [
  {
    "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
    "inquiredSpectrum": [
      {
        "highFrequency": 3640000000,
        "lowFrequency": 3630000000
      },
      {
        "highFrequency": 3650000000,
        "lowFrequency": 3640000000
      },
      {
        "highFrequency": 3660000000,
        "lowFrequency": 3650000000
      },
      {
        "highFrequency": 3670000000,
        "lowFrequency": 3660000000
      }
    ]
  }
]
```

```
],
"measReport": {
  "rcvdPowerMeasReports": [
    {
      "measBandwidth": 10000000,
      "measFrequency": 3550000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3560000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3570000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3580000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3590000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3600000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3610000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3620000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3630000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3640000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3650000000,
      "measRcvdPower": -99
    }
  ]
}
```

```

        {
            "measBandwidth": 10000000,
            "measFrequency": 3660000000,
            "measRcvdPower": -99
        },
        {
            "measBandwidth": 10000000,
            "measFrequency": 3670000000,
            "measRcvdPower": -99
        },
        {
            "measBandwidth": 10000000,
            "measFrequency": 3680000000,
            "measRcvdPower": -99
        },
        {
            "measBandwidth": 10000000,
            "measFrequency": 3690000000,
            "measRcvdPower": -99
        }
    ]
}

2026-01-21T06:18:11.776Z - INFO - engine sent successfully, the response to CBRS : {
    "spectrumInquiryResponse": [
        {
            "availableChannel": [
                {
                    "channelType": "GAA",
                    "frequencyRange": {
                        "highFrequency": 3640000000,
                        "lowFrequency": 3630000000
                    },
                    "ruleApplied": "FCC_PART_96"
                },
                {
                    "channelType": "GAA",
                    "frequencyRange": {
                        "highFrequency": 3650000000,
                        "lowFrequency": 3640000000
                    },
                    "ruleApplied": "FCC_PART_96"
                },
                {
                    "channelType": "GAA",
                    "frequencyRange": {
                        "highFrequency": 3660000000,
                        "lowFrequency": 3650000000
                    },
                    "ruleApplied": "FCC_PART_96"
                }
            ]
        }
    ]
}

```

```

    },
    "ruleApplied": "FCC_PART_96"
  }
],
"cbstdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
"response": {
  "responseCode": 0
}
}
]
}
2026-01-21T06:18:12.088Z - INFO - grant request from CBRS : {
  "grantRequest": [
    {
      "cbstdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "measReport": {
        "rcvdPowerMeasReports": [
          {
            "measBandwidth": 10000000,
            "measFrequency": 3550000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3560000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3570000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3580000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3590000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3600000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3610000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3620000000,
            "measRcvdPower": -99
          }
        ]
      }
    }
  ]
}

```

```

        "measBandwidth": 10000000,
        "measFrequency": 3630000000,
        "measRcvdPower": -99
    },
    {
        "measBandwidth": 10000000,
        "measFrequency": 3640000000,
        "measRcvdPower": -99
    },
    {
        "measBandwidth": 10000000,
        "measFrequency": 3650000000,
        "measRcvdPower": -99
    },
    {
        "measBandwidth": 10000000,
        "measFrequency": 3660000000,
        "measRcvdPower": -99
    },
    {
        "measBandwidth": 10000000,
        "measFrequency": 3670000000,
        "measRcvdPower": -99
    },
    {
        "measBandwidth": 10000000,
        "measFrequency": 3680000000,
        "measRcvdPower": -99
    },
    {
        "measBandwidth": 10000000,
        "measFrequency": 3690000000,
        "measRcvdPower": -99
    }
]
},
"operationParam": {
    "maxEirp": 37.0,
    "operationFrequencyRange": {
        "highFrequency": 3670000000,
        "lowFrequency": 3630000000
    }
}
}
]
}
}
2026-01-21T06:18:12.096Z - INFO - engine sent successfully, the response to CBRS : {
    "grantResponse": [
        {
            "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
            "channelType": "GAA",
            "grantExpireTime": "2026-01-28T06:18:12Z",
            "grantId": "863581404",
            "heartbeatInterval": 60,
            "response": {
                "responseCode": 0
            }
        }
    ]
}

```

```

    ]
  }
  2026-01-21T06:18:12.394Z - INFO - heartbeat request from CBRS : {
    "heartbeatRequest": [
      {
        "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
        "grantId": "863581404",
        "grantRenew": false,
        "operationState": "GRANTED"
      }
    ]
  }
  2026-01-21T06:18:12.401Z - INFO - engine sent successfully, the response to CBRS : {
    "heartbeatResponse": [
      {
        "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
        "grantId": "863581404",
        "response": {
          "responseCode": 501
        },
        "transmitExpireTime": "2026-01-21T06:18:12Z"
      }
    ]
  }
  2026-01-21T06:18:12.687Z - INFO - spectrumInquiry request from CBRS : {
    "spectrumInquiryRequest": [
      {
        "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
        "inquiredSpectrum": [
          {
            "highFrequency": 3640000000,
            "lowFrequency": 3630000000
          },
          {
            "highFrequency": 3650000000,
            "lowFrequency": 3640000000
          },
          {
            "highFrequency": 3660000000,
            "lowFrequency": 3650000000
          },
          {
            "highFrequency": 3670000000,
            "lowFrequency": 3660000000
          }
        ],
        "measReport": {
          "rcvdPowerMeasReports": [
            {
              "measBandwidth": 10000000,
              "measFrequency": 3550000000,
              "measRcvdPower": -99
            },
            {
              "measBandwidth": 10000000,
              "measFrequency": 3560000000,
              "measRcvdPower": -99
            }
          ]
        }
      }
    ]
  }

```

```
{
  "measBandwidth": 10000000,
  "measFrequency": 3570000000,
  "measRcvdPower": -99
},
{
  "measBandwidth": 10000000,
  "measFrequency": 3580000000,
  "measRcvdPower": -99
},
{
  "measBandwidth": 10000000,
  "measFrequency": 3590000000,
  "measRcvdPower": -99
},
{
  "measBandwidth": 10000000,
  "measFrequency": 3600000000,
  "measRcvdPower": -99
},
{
  "measBandwidth": 10000000,
  "measFrequency": 3610000000,
  "measRcvdPower": -99
},
{
  "measBandwidth": 10000000,
  "measFrequency": 3620000000,
  "measRcvdPower": -99
},
{
  "measBandwidth": 10000000,
  "measFrequency": 3630000000,
  "measRcvdPower": -99
},
{
  "measBandwidth": 10000000,
  "measFrequency": 3640000000,
  "measRcvdPower": -99
},
{
  "measBandwidth": 10000000,
  "measFrequency": 3650000000,
  "measRcvdPower": -99
},
{
  "measBandwidth": 10000000,
  "measFrequency": 3660000000,
  "measRcvdPower": -99
},
{
  "measBandwidth": 10000000,
  "measFrequency": 3670000000,
  "measRcvdPower": -99
},
{
  "measBandwidth": 10000000,
  "measFrequency": 3680000000,
```

```

        "measRcvdPower": -99
      },
      {
        "measBandwidth": 10000000,
        "measFrequency": 3690000000,
        "measRcvdPower": -99
      }
    ]
  }
}

2026-01-21T06:18:12.697Z - INFO - engine sent successfully, the response to CBRS : {
  "spectrumInquiryResponse": [
    {
      "availableChannel": [
        {
          "channelType": "GAA",
          "frequencyRange": {
            "highFrequency": 3640000000,
            "lowFrequency": 3630000000
          },
          "ruleApplied": "FCC_PART_96"
        },
        {
          "channelType": "GAA",
          "frequencyRange": {
            "highFrequency": 3650000000,
            "lowFrequency": 3640000000
          },
          "ruleApplied": "FCC_PART_96"
        },
        {
          "channelType": "GAA",
          "frequencyRange": {
            "highFrequency": 3660000000,
            "lowFrequency": 3650000000
          },
          "ruleApplied": "FCC_PART_96"
        },
        {
          "channelType": "GAA",
          "frequencyRange": {
            "highFrequency": 3670000000,
            "lowFrequency": 3660000000
          },
          "ruleApplied": "FCC_PART_96"
        }
      ],
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "response": {
        "responseCode": 0
      }
    }
  ]
}

2026-01-21T06:19:06.674Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [

```

```
{
  "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
  "grantId": "863581404",
  "grantRenew": false,
  "operationState": "GRANTED"
}
]
```

2026-01-21T06:19:06.676Z - INFO - Time interval between two heartbeat request messages is: 54.279, limit is: 65.0

2026-01-21T06:19:06.681Z - INFO - engine sent successfully, the response to CBRS : {

```
  "heartbeatResponse": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "863581404",
      "response": {
        "responseCode": 501
      },
      "transmitExpireTime": "2026-01-21T06:19:06Z"
    }
  ]
}
```

2026-01-21T06:19:08.072Z - INFO - arrived to nstep starting question answer session with the technician

2026-01-21T06:19:08.073Z - INFO - the question is : Did the CBSD transmit at any time during the test?
please choose one of the answers :

2026-01-21T06:24:26.335Z - INFO - for the question : Did the CBSD transmit at any time during the test? , the user choose n

2026-01-21T06:24:26.618Z - INFO - The final result of the test : WINNF.FT.C.HBT.5 is - passed

3.5 WINNF.FT.C.HBT.6

2026-01-21T06:26:43.410Z - INFO - WINNF TEST HARNESS RELEASE: 1.0.0.3 - 2018-November-13

2026-01-21T06:26:43.411Z - INFO - the selected test from the user : WINNF.FT.C.HBT.6 is starting now

2026-01-21T06:31:51.407Z - INFO - registration request from CBRS : {

```
"registrationRequest": [
  {
    "airInterface": {
      "radioTechnology": "NR"
    },
    "cbsdCategory": "B",
    "cbsdInfo": {
      "model": "OUTDOOR",
      "softwareVersion": "OutdoorV1",
      "vendor": "Kolibri-Outdoor"
    },
    "cbsdSerialNumber": "LBNKIASRC250170725.NR",
    "fccId": "2ASK5AIOOD5GSC02",
    "measCapability": [
      "RECEIVED_POWER_WITHOUT_GRANT"
    ],
    "userId": "nokia"
  }
]
```

2026-01-21T06:31:51.460Z - INFO - engine sent successfully, the response to CBRS : {

```
"registrationResponse": [
  {
    "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
    "response": {
      "responseCode": 0
    }
  }
]
```

2026-01-21T06:31:51.737Z - INFO - spectrumInquiry request from CBRS : {

```
"spectrumInquiryRequest": [
  {
    "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
    "inquiredSpectrum": [
      {
        "highFrequency": 3640000000,
        "lowFrequency": 3630000000
      },
      {
        "highFrequency": 3650000000,
        "lowFrequency": 3640000000
      },
      {
        "highFrequency": 3660000000,
        "lowFrequency": 3650000000
      },
      {
        "highFrequency": 3670000000,
        "lowFrequency": 3660000000
      }
    ]
  }
]
```

```
],
"measReport": {
  "rcvdPowerMeasReports": [
    {
      "measBandwidth": 10000000,
      "measFrequency": 3550000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3560000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3570000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3580000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3590000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3600000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3610000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3620000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3630000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3640000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3650000000,
      "measRcvdPower": -99
    }
  ]
}
```

```

        {
            "measBandwidth": 10000000,
            "measFrequency": 3660000000,
            "measRcvdPower": -99
        },
        {
            "measBandwidth": 10000000,
            "measFrequency": 3670000000,
            "measRcvdPower": -99
        },
        {
            "measBandwidth": 10000000,
            "measFrequency": 3680000000,
            "measRcvdPower": -99
        },
        {
            "measBandwidth": 10000000,
            "measFrequency": 3690000000,
            "measRcvdPower": -99
        }
    ]
}

2026-01-21T06:31:51.747Z - INFO - engine sent successfully, the response to CBRS : {
  "spectrumInquiryResponse": [
    {
      "availableChannel": [
        {
          "channelType": "GAA",
          "frequencyRange": {
            "highFrequency": 3640000000,
            "lowFrequency": 3630000000
          },
          "ruleApplied": "FCC_PART_96"
        },
        {
          "channelType": "GAA",
          "frequencyRange": {
            "highFrequency": 3650000000,
            "lowFrequency": 3640000000
          },
          "ruleApplied": "FCC_PART_96"
        },
        {
          "channelType": "GAA",
          "frequencyRange": {
            "highFrequency": 3660000000,
            "lowFrequency": 3650000000
          },
          "ruleApplied": "FCC_PART_96"
        }
      ]
    }
  ]
}

```

```

    },
    "ruleApplied": "FCC_PART_96"
  }
],
"cbstdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
"response": {
  "responseCode": 0
}
}
]
}
2026-01-21T06:31:52.055Z - INFO - grant request from CBRS : {
  "grantRequest": [
    {
      "cbstdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "measReport": {
        "rcvdPowerMeasReports": [
          {
            "measBandwidth": 10000000,
            "measFrequency": 3550000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3560000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3570000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3580000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3590000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3600000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3610000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3620000000,
            "measRcvdPower": -99
          }
        ]
      }
    }
  ]
}

```

```

        "measBandwidth": 10000000,
        "measFrequency": 3630000000,
        "measRcvdPower": -99
    },
    {
        "measBandwidth": 10000000,
        "measFrequency": 3640000000,
        "measRcvdPower": -99
    },
    {
        "measBandwidth": 10000000,
        "measFrequency": 3650000000,
        "measRcvdPower": -99
    },
    {
        "measBandwidth": 10000000,
        "measFrequency": 3660000000,
        "measRcvdPower": -99
    },
    {
        "measBandwidth": 10000000,
        "measFrequency": 3670000000,
        "measRcvdPower": -99
    },
    {
        "measBandwidth": 10000000,
        "measFrequency": 3680000000,
        "measRcvdPower": -99
    },
    {
        "measBandwidth": 10000000,
        "measFrequency": 3690000000,
        "measRcvdPower": -99
    }
]
},
"operationParam": {
    "maxEirp": 37.0,
    "operationFrequencyRange": {
        "highFrequency": 3670000000,
        "lowFrequency": 3630000000
    }
}
}
]
}
}
2026-01-21T06:31:52.063Z - INFO - engine sent successfully, the response to CBRS : {
    "grantResponse": [
        {
            "cbsId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
            "channelType": "GAA",
            "grantExpireTime": "2026-01-28T06:31:52Z",
            "grantId": "661483497",
            "heartbeatInterval": 60,
            "response": {
                "responseCode": 0
            }
        }
    ]
}

```

```

    ]
  }
2026-01-21T06:31:52.355Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "661483497",
      "grantRenew": false,
      "operationState": "GRANTED"
    }
  ]
}
2026-01-21T06:31:52.361Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "661483497",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2026-01-21T06:35:12Z"
    }
  ]
}
2026-01-21T06:32:46.632Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "661483497",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2026-01-21T06:32:46.634Z - INFO - Time interval between two heartbeat request messages is: 54.277, limit
is: 65.0
2026-01-21T06:32:46.638Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "661483497",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2026-01-21T06:36:06Z"
    }
  ]
}
2026-01-21T06:33:40.920Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "661483497",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}

```

2026-01-21T06:33:40.921Z - INFO - Time interval between two heartbeat request messages is: 54.287, limit is: 65.0

2026-01-21T06:33:40.926Z - INFO - engine sent successfully, the response to CBRS : {

```
"heartbeatResponse": [
  {
    "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
    "grantId": "661483497",
    "response": {
      "responseCode": 0
    },
    "transmitExpireTime": "2026-01-21T06:37:00Z"
  }
]
```

2026-01-21T06:34:35.213Z - INFO - heartbeat request from CBRS : {

```
"heartbeatRequest": [
  {
    "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
    "grantId": "661483497",
    "grantRenew": false,
    "operationState": "AUTHORIZED"
  }
]
```

2026-01-21T06:34:35.213Z - INFO - Time interval between two heartbeat request messages is: 54.293, limit is: 65.0

2026-01-21T06:34:35.220Z - INFO - engine sent successfully, the response to CBRS : {

```
"heartbeatResponse": [
  {
    "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
    "grantId": "661483497",
    "response": {
      "responseCode": 501
    },
    "transmitExpireTime": "2026-01-21T06:34:35Z"
  }
]
```

2026-01-21T06:34:35.529Z - INFO - spectrumInquiry request from CBRS : {

```
"spectrumInquiryRequest": [
  {
    "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
    "inquiredSpectrum": [
      {
        "highFrequency": 3640000000,
        "lowFrequency": 3630000000
      },
      {
        "highFrequency": 3650000000,
        "lowFrequency": 3640000000
      },
      {
        "highFrequency": 3660000000,
        "lowFrequency": 3650000000
      },
      {
        "highFrequency": 3670000000,
        "lowFrequency": 3660000000
      }
    ]
  }
]
```

```

    }
  ],
  "measReport": {
    "rcvdPowerMeasReports": [
      {
        "measBandwidth": 10000000,
        "measFrequency": 3550000000,
        "measRcvdPower": -99
      },
      {
        "measBandwidth": 10000000,
        "measFrequency": 3560000000,
        "measRcvdPower": -99
      },
      {
        "measBandwidth": 10000000,
        "measFrequency": 3570000000,
        "measRcvdPower": -99
      },
      {
        "measBandwidth": 10000000,
        "measFrequency": 3580000000,
        "measRcvdPower": -99
      },
      {
        "measBandwidth": 10000000,
        "measFrequency": 3590000000,
        "measRcvdPower": -99
      },
      {
        "measBandwidth": 10000000,
        "measFrequency": 3600000000,
        "measRcvdPower": -99
      },
      {
        "measBandwidth": 10000000,
        "measFrequency": 3610000000,
        "measRcvdPower": -99
      },
      {
        "measBandwidth": 10000000,
        "measFrequency": 3620000000,
        "measRcvdPower": -99
      },
      {
        "measBandwidth": 10000000,
        "measFrequency": 3630000000,
        "measRcvdPower": -99
      },
      {
        "measBandwidth": 10000000,
        "measFrequency": 3640000000,
        "measRcvdPower": -99
      },
      {
        "measBandwidth": 10000000,
        "measFrequency": 3650000000,
        "measRcvdPower": -99
      }
    ]
  }
}

```

```

    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3660000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3670000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3680000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3690000000,
      "measRcvdPower": -99
    }
  ]
}

2026-01-21T06:34:35.539Z - INFO - engine sent successfully, the response to CBRS : {
  "spectrumInquiryResponse": [
    {
      "availableChannel": [
        {
          "channelType": "GAA",
          "frequencyRange": {
            "highFrequency": 3640000000,
            "lowFrequency": 3630000000
          },
          "ruleApplied": "FCC_PART_96"
        },
        {
          "channelType": "GAA",
          "frequencyRange": {
            "highFrequency": 3650000000,
            "lowFrequency": 3640000000
          },
          "ruleApplied": "FCC_PART_96"
        },
        {
          "channelType": "GAA",
          "frequencyRange": {
            "highFrequency": 3660000000,
            "lowFrequency": 3650000000
          },
          "ruleApplied": "FCC_PART_96"
        },
        {
          "channelType": "GAA",
          "frequencyRange": {
            "highFrequency": 3670000000,

```

```

        "lowFrequency": 3660000000
      },
      "ruleApplied": "FCC_PART_96"
    }
  ],
  "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
  "response": {
    "responseCode": 0
  }
}
]
}
2026-01-21T06:35:29.502Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "661483497",
      "grantRenew": false,
      "operationState": "GRANTED"
    }
  ]
}
2026-01-21T06:35:29.505Z - INFO - Time interval between two heartbeat request messages is: 54.29, limit is:
65.0
2026-01-21T06:35:29.512Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "661483497",
      "response": {
        "responseCode": 501
      },
      "transmitExpireTime": "2026-01-21T06:35:29Z"
    }
  ]
}
2026-01-21T06:35:30.677Z - INFO - arrived to nstep starting question answer session with the technician
2026-01-21T06:35:30.678Z - INFO - the question is : Did the CBSD stop RF transmission within 60 seconds
of receiving Heartbeat response with responseCode = 501? please choose one of the answers :
2026-01-21T06:38:51.368Z - INFO - for the question : Did the CBSD stop RF transmission within 60 seconds
of receiving Heartbeat response with responseCode = 501? , the user choose y
2026-01-21T06:38:51.595Z - INFO - The final result of the test : WINNF.FT.C.HBT.6 is - passed

```

3.6 WINNF.FT.C.HBT.7

2026-01-21T06:40:13.298Z - INFO - WINNF TEST HARNESS RELEASE: 1.0.0.3 - 2018-November-13

2026-01-21T06:40:13.299Z - INFO - the selected test from the user : WINNF.FT.C.HBT.7 is starting now

2026-01-21T06:46:06.693Z - INFO - registration request from CBRS : {

```
"registrationRequest": [
  {
    "airInterface": {
      "radioTechnology": "NR"
    },
    "cbsdCategory": "B",
    "cbsdInfo": {
      "model": "OUTDOOR",
      "softwareVersion": "OutdoorV1",
      "vendor": "Kolibri-Outdoor"
    },
    "cbsdSerialNumber": "LBNKIASRC250170725.NR",
    "fccId": "2ASK5AIOOD5GSC02",
    "measCapability": [
      "RECEIVED_POWER_WITHOUT_GRANT"
    ],
    "userId": "nokia"
  }
]
```

2026-01-21T06:46:06.752Z - INFO - engine sent successfully, the response to CBRS : {

```
"registrationResponse": [
  {
    "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
    "response": {
      "responseCode": 0
    }
  }
]
```

2026-01-21T06:46:07.017Z - INFO - spectrumInquiry request from CBRS : {

```
"spectrumInquiryRequest": [
  {
    "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
    "inquiredSpectrum": [
      {
        "highFrequency": 3640000000,
        "lowFrequency": 3630000000
      },
      {
        "highFrequency": 3650000000,
        "lowFrequency": 3640000000
      },
      {
        "highFrequency": 3660000000,
        "lowFrequency": 3650000000
      },
      {
        "highFrequency": 3670000000,
        "lowFrequency": 3660000000
      }
    ]
  }
]
```

```

],
"measReport": {
  "rcvdPowerMeasReports": [
    {
      "measBandwidth": 10000000,
      "measFrequency": 3550000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3560000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3570000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3580000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3590000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3600000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3610000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3620000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3630000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3640000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3650000000,
      "measRcvdPower": -99
    }
  ]
}

```

```

        {
            "measBandwidth": 10000000,
            "measFrequency": 3660000000,
            "measRcvdPower": -99
        },
        {
            "measBandwidth": 10000000,
            "measFrequency": 3670000000,
            "measRcvdPower": -99
        },
        {
            "measBandwidth": 10000000,
            "measFrequency": 3680000000,
            "measRcvdPower": -99
        },
        {
            "measBandwidth": 10000000,
            "measFrequency": 3690000000,
            "measRcvdPower": -99
        }
    ]
}

2026-01-21T06:46:07.026Z - INFO - engine sent successfully, the response to CBRS : {
    "spectrumInquiryResponse": [
        {
            "availableChannel": [
                {
                    "channelType": "GAA",
                    "frequencyRange": {
                        "highFrequency": 3640000000,
                        "lowFrequency": 3630000000
                    },
                    "ruleApplied": "FCC_PART_96"
                },
                {
                    "channelType": "GAA",
                    "frequencyRange": {
                        "highFrequency": 3650000000,
                        "lowFrequency": 3640000000
                    },
                    "ruleApplied": "FCC_PART_96"
                },
                {
                    "channelType": "GAA",
                    "frequencyRange": {
                        "highFrequency": 3660000000,
                        "lowFrequency": 3650000000
                    },
                    "ruleApplied": "FCC_PART_96"
                },
                {
                    "channelType": "GAA",
                    "frequencyRange": {
                        "highFrequency": 3670000000,
                        "lowFrequency": 3660000000
                    }
                }
            ]
        }
    ]
}

```

```

    },
    "ruleApplied": "FCC_PART_96"
  }
],
"cbstdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
"response": {
  "responseCode": 0
}
}
]
}
2026-01-21T06:46:07.311Z - INFO - grant request from CBRS : {
  "grantRequest": [
    {
      "cbstdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "measReport": {
        "rcvdPowerMeasReports": [
          {
            "measBandwidth": 10000000,
            "measFrequency": 3550000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3560000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3570000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3580000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3590000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3600000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3610000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3620000000,
            "measRcvdPower": -99
          }
        ]
      }
    }
  ]
}

```

```

        "measBandwidth": 10000000,
        "measFrequency": 3630000000,
        "measRcvdPower": -99
    },
    {
        "measBandwidth": 10000000,
        "measFrequency": 3640000000,
        "measRcvdPower": -99
    },
    {
        "measBandwidth": 10000000,
        "measFrequency": 3650000000,
        "measRcvdPower": -99
    },
    {
        "measBandwidth": 10000000,
        "measFrequency": 3660000000,
        "measRcvdPower": -99
    },
    {
        "measBandwidth": 10000000,
        "measFrequency": 3670000000,
        "measRcvdPower": -99
    },
    {
        "measBandwidth": 10000000,
        "measFrequency": 3680000000,
        "measRcvdPower": -99
    },
    {
        "measBandwidth": 10000000,
        "measFrequency": 3690000000,
        "measRcvdPower": -99
    }
]
},
"operationParam": {
    "maxEirp": 37.0,
    "operationFrequencyRange": {
        "highFrequency": 3670000000,
        "lowFrequency": 3630000000
    }
}
}
]
}
}
2026-01-21T06:46:07.322Z - INFO - engine sent successfully, the response to CBRS : {
    "grantResponse": [
        {
            "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
            "channelType": "GAA",
            "grantExpireTime": "2026-01-28T06:46:07Z",
            "grantId": "302329410",
            "heartbeatInterval": 60,
            "response": {
                "responseCode": 0
            }
        }
    ]
}

```

```

    ]
  }
2026-01-21T06:46:07.621Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "302329410",
      "grantRenew": false,
      "operationState": "GRANTED"
    }
  ]
}
2026-01-21T06:46:07.630Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "302329410",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2026-01-21T06:49:27Z"
    }
  ]
}
2026-01-21T06:47:01.900Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "302329410",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2026-01-21T06:47:01.901Z - INFO - Time interval between two heartbeat request messages is: 54.278, limit
is: 65.0
2026-01-21T06:47:01.905Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "302329410",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2026-01-21T06:50:21Z"
    }
  ]
}
2026-01-21T06:47:56.194Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "302329410",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}

```

2026-01-21T06:47:56.196Z - INFO - Time interval between two heartbeat request messages is: 54.295, limit is: 65.0

2026-01-21T06:47:56.201Z - INFO - engine sent successfully, the response to CBRS : {

```
"heartbeatResponse": [
  {
    "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
    "grantId": "302329410",
    "response": {
      "responseCode": 0
    },
    "transmitExpireTime": "2026-01-21T06:51:16Z"
  }
]
```

2026-01-21T06:48:50.489Z - INFO - heartbeat request from CBRS : {

```
"heartbeatRequest": [
  {
    "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
    "grantId": "302329410",
    "grantRenew": false,
    "operationState": "AUTHORIZED"
  }
]
```

2026-01-21T06:48:50.490Z - INFO - Time interval between two heartbeat request messages is: 54.294, limit is: 65.0

2026-01-21T06:48:50.494Z - INFO - engine sent successfully, the response to CBRS : {

```
"heartbeatResponse": [
  {
    "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
    "grantId": "302329410",
    "response": {
      "responseCode": 502
    },
    "transmitExpireTime": "2026-01-21T06:48:50Z"
  }
]
```

2026-01-21T06:48:50.798Z - INFO - relinquishment request from CBRS : {

```
"relinquishmentRequest": [
  {
    "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
    "grantId": "302329410"
  }
]
```

2026-01-21T06:48:50.818Z - INFO - engine sent successfully, the response to CBRS : {

```
"relinquishmentResponse": [
  {
    "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
    "grantId": "302329410",
    "response": {
      "responseCode": 0
    }
  }
]
```

2026-01-21T06:48:52.517Z - INFO - arrived to nstep starting question answer session with the technician

2026-01-21T06:48:52.519Z - INFO - the question is : Did the CBSD stop RF transmission within 60 seconds of receiving Heartbeat response with responseCode = 502? please choose one of the answers :
2026-01-21T06:58:28.006Z - INFO - for the question : Did the CBSD stop RF transmission within 60 seconds of receiving Heartbeat response with responseCode = 502? , the user choose y
2026-01-21T06:58:28.424Z - INFO - The final result of the test : WINNF.FT.C.HBT.7 is - passed

3.7 WINNF.FT.C.HBT.9

2026-01-21T07:00:38.752Z - INFO - WINNF TEST HARNESS RELEASE: 1.0.0.3 - 2018-November-13

2026-01-21T07:00:38.753Z - INFO - the selected test from the user : WINNF.FT.C.HBT.9 is starting now

2026-01-21T07:07:08.384Z - INFO - registration request from CBRS : {

```
"registrationRequest": [
  {
    "airInterface": {
      "radioTechnology": "NR"
    },
    "cbsdCategory": "B",
    "cbsdInfo": {
      "model": "OUTDOOR",
      "softwareVersion": "OutdoorV1",
      "vendor": "Kolibri-Outdoor"
    },
    "cbsdSerialNumber": "LBNKIASRC250170725.NR",
    "fccId": "2ASK5AIOOD5GSC02",
    "measCapability": [
      "RECEIVED_POWER_WITHOUT_GRANT"
    ],
    "userId": "nokia"
  }
]
```

2026-01-21T07:07:08.424Z - INFO - engine sent successfully, the response to CBRS : {

```
"registrationResponse": [
  {
    "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
    "response": {
      "responseCode": 0
    }
  }
]
```

2026-01-21T07:07:08.694Z - INFO - spectrumInquiry request from CBRS : {

```
"spectrumInquiryRequest": [
  {
    "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
    "inquiredSpectrum": [
      {
        "highFrequency": 3640000000,
        "lowFrequency": 3630000000
      },
      {
        "highFrequency": 3650000000,
        "lowFrequency": 3640000000
      },
      {
        "highFrequency": 3660000000,
        "lowFrequency": 3650000000
      },
      {
        "highFrequency": 3670000000,
        "lowFrequency": 3660000000
      }
    ]
  }
]
```

```

],
"measReport": {
  "rcvdPowerMeasReports": [
    {
      "measBandwidth": 10000000,
      "measFrequency": 3550000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3560000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3570000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3580000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3590000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3600000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3610000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3620000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3630000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3640000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3650000000,
      "measRcvdPower": -99
    }
  ]
}

```

```

    {
      "measBandwidth": 10000000,
      "measFrequency": 3660000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3670000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3680000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3690000000,
      "measRcvdPower": -99
    }
  ]
}
]
}
]
}
}
2026-01-21T07:07:08.703Z - INFO - engine sent successfully, the response to CBRS : {
  "spectrumInquiryResponse": [
    {
      "availableChannel": [
        {
          "channelType": "GAA",
          "frequencyRange": {
            "highFrequency": 3640000000,
            "lowFrequency": 3630000000
          },
          "ruleApplied": "FCC_PART_96"
        },
        {
          "channelType": "GAA",
          "frequencyRange": {
            "highFrequency": 3650000000,
            "lowFrequency": 3640000000
          },
          "ruleApplied": "FCC_PART_96"
        },
        {
          "channelType": "GAA",
          "frequencyRange": {
            "highFrequency": 3660000000,
            "lowFrequency": 3650000000
          },
          "ruleApplied": "FCC_PART_96"
        },
        {
          "channelType": "GAA",
          "frequencyRange": {
            "highFrequency": 3670000000,
            "lowFrequency": 3660000000
          },
          "ruleApplied": "FCC_PART_96"
        }
      ]
    }
  ]
}

```

```

    },
    "ruleApplied": "FCC_PART_96"
  }
],
"cbstdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
"response": {
  "responseCode": 0
}
}
]
}
2026-01-21T07:07:08.984Z - INFO - grant request from CBRS : {
  "grantRequest": [
    {
      "cbstdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "measReport": {
        "rcvdPowerMeasReports": [
          {
            "measBandwidth": 10000000,
            "measFrequency": 3550000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3560000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3570000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3580000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3590000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3600000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3610000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3620000000,
            "measRcvdPower": -99
          }
        ]
      }
    }
  ]
}

```

```

        "measBandwidth": 10000000,
        "measFrequency": 3630000000,
        "measRcvdPower": -99
    },
    {
        "measBandwidth": 10000000,
        "measFrequency": 3640000000,
        "measRcvdPower": -99
    },
    {
        "measBandwidth": 10000000,
        "measFrequency": 3650000000,
        "measRcvdPower": -99
    },
    {
        "measBandwidth": 10000000,
        "measFrequency": 3660000000,
        "measRcvdPower": -99
    },
    {
        "measBandwidth": 10000000,
        "measFrequency": 3670000000,
        "measRcvdPower": -99
    },
    {
        "measBandwidth": 10000000,
        "measFrequency": 3680000000,
        "measRcvdPower": -99
    },
    {
        "measBandwidth": 10000000,
        "measFrequency": 3690000000,
        "measRcvdPower": -99
    }
]
},
"operationParam": {
    "maxEirp": 37.0,
    "operationFrequencyRange": {
        "highFrequency": 3670000000,
        "lowFrequency": 3630000000
    }
}
}
]
}
}
2026-01-21T07:07:08.993Z - INFO - engine sent successfully, the response to CBRS : {
    "grantResponse": [
        {
            "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
            "channelType": "GAA",
            "grantExpireTime": "2026-01-28T07:07:08Z",
            "grantId": "585905939",
            "heartbeatInterval": 60,
            "response": {
                "responseCode": 0
            }
        }
    ]
}

```

```

    ]
  }
2026-01-21T07:07:09.315Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "585905939",
      "grantRenew": false,
      "operationState": "GRANTED"
    }
  ]
}
2026-01-21T07:07:39.542Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "585905939",
      "grantRenew": false,
      "operationState": "GRANTED"
    }
  ]
}
2026-01-21T07:07:39.542Z - INFO - request message received while HBT is absent, sleep 174 sec before
responding
2026-01-21T07:08:09.822Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "585905939",
      "grantRenew": false,
      "operationState": "GRANTED"
    }
  ]
}
2026-01-21T07:08:09.822Z - INFO - request message received while HBT is absent, sleep 144 sec before
responding
2026-01-21T07:09:16.209Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "585905939",
      "grantRenew": false,
      "operationState": "GRANTED"
    }
  ]
}
2026-01-21T07:09:16.209Z - INFO - request message received while HBT is absent, sleep 78 sec before
responding
2026-01-21T07:09:46.433Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "585905939",
      "grantRenew": false,
      "operationState": "GRANTED"
    }
  ]
}
}

```

2026-01-21T07:09:46.433Z - INFO - request message received while HBT is absent, sleep 47 sec before responding

2026-01-21T07:10:29.325Z - INFO - engine sent successfully, the response to CBRS : {

```
"heartbeatResponse": [  
  {  
    "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",  
    "grantId": "585905939",  
    "response": {  
      "responseCode": 501  
    },  
    "transmitExpireTime": "2026-01-21T07:10:29Z"  
  }  
]
```

}

2026-01-21T07:10:31.002Z - INFO - arrived to nstep starting question answer session with the technician

2026-01-21T07:10:31.003Z - INFO - the question is : Were there RF transmissions from the CBSD during the test? please choose one of the answers :

2026-01-21T07:10:33.434Z - INFO - engine sent successfully, the response to CBRS : "list index out of range"

2026-01-21T07:10:33.545Z - INFO - engine sent successfully, the response to CBRS : "list index out of range"

2026-01-21T07:10:33.823Z - INFO - engine sent successfully, the response to CBRS : "list index out of range"

2026-01-21T07:10:34.210Z - INFO - engine sent successfully, the response to CBRS : "list index out of range"

2026-01-21T07:15:56.309Z - INFO - for the question : Were there RF transmissions from the CBSD during the test? , the user choose n

2026-01-21T07:15:56.624Z - INFO - The final result of the test : WINNF.FT.C.HBT.9 is - passed

3.8 WINNF.FT.C.HBT.10

2026-01-21T07:17:36.664Z - INFO - WINNF TEST HARNESS RELEASE: 1.0.0.3 - 2018-November-13

2026-01-21T07:17:36.664Z - INFO - the selected test from the user : WINNF.FT.C.HBT.10 is starting now

2026-01-21T07:24:07.115Z - INFO - registration request from CBRS : {

```
"registrationRequest": [
  {
    "airInterface": {
      "radioTechnology": "NR"
    },
    "cbsdCategory": "B",
    "cbsdInfo": {
      "model": "OUTDOOR",
      "softwareVersion": "OutdoorV1",
      "vendor": "Kolibri-Outdoor"
    },
    "cbsdSerialNumber": "LBNKIASRC250170725.NR",
    "fccId": "2ASK5AIOOD5GSC02",
    "measCapability": [
      "RECEIVED_POWER_WITHOUT_GRANT"
    ],
    "userId": "nokia"
  }
]
```

2026-01-21T07:24:07.164Z - INFO - engine sent successfully, the response to CBRS : {

```
"registrationResponse": [
  {
    "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
    "response": {
      "responseCode": 0
    }
  }
]
```

2026-01-21T07:24:07.443Z - INFO - spectrumInquiry request from CBRS : {

```
"spectrumInquiryRequest": [
  {
    "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
    "inquiredSpectrum": [
      {
        "highFrequency": 3640000000,
        "lowFrequency": 3630000000
      },
      {
        "highFrequency": 3650000000,
        "lowFrequency": 3640000000
      },
      {
        "highFrequency": 3660000000,
        "lowFrequency": 3650000000
      },
      {
        "highFrequency": 3670000000,
        "lowFrequency": 3660000000
      }
    ]
  }
]
```

```
],
"measReport": {
  "rcvdPowerMeasReports": [
    {
      "measBandwidth": 10000000,
      "measFrequency": 3550000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3560000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3570000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3580000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3590000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3600000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3610000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3620000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3630000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3640000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3650000000,
      "measRcvdPower": -99
    }
  ]
}
```

```

        {
            "measBandwidth": 10000000,
            "measFrequency": 3660000000,
            "measRcvdPower": -99
        },
        {
            "measBandwidth": 10000000,
            "measFrequency": 3670000000,
            "measRcvdPower": -99
        },
        {
            "measBandwidth": 10000000,
            "measFrequency": 3680000000,
            "measRcvdPower": -99
        },
        {
            "measBandwidth": 10000000,
            "measFrequency": 3690000000,
            "measRcvdPower": -99
        }
    ]
}

2026-01-21T07:24:07.451Z - INFO - engine sent successfully, the response to CBRS : {
    "spectrumInquiryResponse": [
        {
            "availableChannel": [
                {
                    "channelType": "GAA",
                    "frequencyRange": {
                        "highFrequency": 3640000000,
                        "lowFrequency": 3630000000
                    },
                    "ruleApplied": "FCC_PART_96"
                },
                {
                    "channelType": "GAA",
                    "frequencyRange": {
                        "highFrequency": 3650000000,
                        "lowFrequency": 3640000000
                    },
                    "ruleApplied": "FCC_PART_96"
                },
                {
                    "channelType": "GAA",
                    "frequencyRange": {
                        "highFrequency": 3660000000,
                        "lowFrequency": 3650000000
                    },
                    "ruleApplied": "FCC_PART_96"
                },
                {
                    "channelType": "GAA",
                    "frequencyRange": {
                        "highFrequency": 3670000000,
                        "lowFrequency": 3660000000
                    }
                }
            ]
        }
    ]
}

```

```

    },
    "ruleApplied": "FCC_PART_96"
  }
],
"cbstdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
"response": {
  "responseCode": 0
}
}
]
}
2026-01-21T07:24:07.709Z - INFO - grant request from CBRS : {
  "grantRequest": [
    {
      "cbstdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "measReport": {
        "rcvdPowerMeasReports": [
          {
            "measBandwidth": 10000000,
            "measFrequency": 3550000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3560000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3570000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3580000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3590000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3600000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3610000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3620000000,
            "measRcvdPower": -99
          }
        ]
      }
    }
  ]
}

```

```

        "measBandwidth": 10000000,
        "measFrequency": 3630000000,
        "measRcvdPower": -99
      },
      {
        "measBandwidth": 10000000,
        "measFrequency": 3640000000,
        "measRcvdPower": -99
      },
      {
        "measBandwidth": 10000000,
        "measFrequency": 3650000000,
        "measRcvdPower": -99
      },
      {
        "measBandwidth": 10000000,
        "measFrequency": 3660000000,
        "measRcvdPower": -99
      },
      {
        "measBandwidth": 10000000,
        "measFrequency": 3670000000,
        "measRcvdPower": -99
      },
      {
        "measBandwidth": 10000000,
        "measFrequency": 3680000000,
        "measRcvdPower": -99
      },
      {
        "measBandwidth": 10000000,
        "measFrequency": 3690000000,
        "measRcvdPower": -99
      }
    ]
  },
  "operationParam": {
    "maxEirp": 37.0,
    "operationFrequencyRange": {
      "highFrequency": 3670000000,
      "lowFrequency": 3630000000
    }
  }
}
]
}
}
2026-01-21T07:24:07.717Z - INFO - engine sent successfully, the response to CBRS : {
  "grantResponse": [
    {
      "cbsId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "channelType": "GAA",
      "grantExpireTime": "2026-01-28T07:24:07Z",
      "grantId": "592251354",
      "heartbeatInterval": 60,
      "response": {
        "responseCode": 0
      }
    }
  ]
}

```

```

    ]
  }
2026-01-21T07:24:08.035Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "592251354",
      "grantRenew": false,
      "operationState": "GRANTED"
    }
  ]
}
2026-01-21T07:24:08.042Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "592251354",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2026-01-21T07:27:28Z"
    }
  ]
}
2026-01-21T07:25:02.332Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "592251354",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2026-01-21T07:25:02.335Z - INFO - Time interval between two heartbeat request messages is: 54.298, limit
is: 65.0
2026-01-21T07:25:02.345Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "592251354",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2026-01-21T07:28:22Z"
    }
  ]
}
2026-01-21T07:25:56.614Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "592251354",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}

```

```

2026-01-21T07:25:56.615Z - INFO - Time interval between two heartbeat request messages is: 54.281, limit
is: 65.0
2026-01-21T07:25:56.618Z - INFO - LAST HBT RESPONSE THAT SET TRANSMIT_EXPIRE_TIME WAS AT:
2026-01-21 07:25:02.333000
2026-01-21T07:26:26.851Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "592251354",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2026-01-21T07:26:26.851Z - INFO - request message received while HBT is absent, sleep 174 sec before
responding
2026-01-21T07:26:57.101Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "592251354",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2026-01-21T07:26:57.101Z - INFO - request message received while HBT is absent, sleep 144 sec before
responding
2026-01-21T07:28:03.490Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "592251354",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2026-01-21T07:28:03.490Z - INFO - request message received while HBT is absent, sleep 78 sec before
responding
2026-01-21T07:28:33.720Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "592251354",
      "grantRenew": false,
      "operationState": "GRANTED"
    }
  ]
}
2026-01-21T07:28:33.720Z - INFO - request message received while HBT is absent, sleep 47 sec before
responding
2026-01-21T07:29:16.622Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "592251354",
      "response": {

```

```
        "responseCode": 501
      },
      "transmitExpireTime": "2026-01-21T07:29:16Z"
    }
  ]
}
```

2026-01-21T07:29:17.964Z - INFO - arrived to nstep starting question answer session with the technician
2026-01-21T07:29:17.967Z - INFO - the question is : Did the CBSD stop RF transmissions within
(transmitExpireTime + 60seconds) of last valid heartbeat response? please choose one of the answers :
2026-01-21T07:29:20.721Z - INFO - engine sent successfully, the response to CBRS : "list index out of
range"
2026-01-21T07:29:20.854Z - INFO - engine sent successfully, the response to CBRS : "list index out of
range"
2026-01-21T07:29:21.101Z - INFO - engine sent successfully, the response to CBRS : "list index out of
range"
2026-01-21T07:29:21.492Z - INFO - engine sent successfully, the response to CBRS : "list index out of
range"
2026-01-21T07:32:58.233Z - INFO - for the question : Did the CBSD stop RF transmissions within
(transmitExpireTime + 60seconds) of last valid heartbeat response? , the user choose y
2026-01-21T07:32:58.842Z - INFO - The final result of the test : WINNF.FT.C.HBT.10 is - passed

4 CBSD Measurement Report

4.1 WINNF.FT.C.MES.1

2026-02-03T07:15:19.555Z - INFO - WINNF TEST HARNESS RELEASE: 1.0.0.3 - 2018-November-13

2026-02-03T07:15:19.555Z - INFO - the selected test from the user : WINNF.FT.C.MES.1 is starting now

2026-02-03T07:21:47.197Z - INFO - registration request from CBRS : {

```
"registrationRequest": [
  {
    "airInterface": {
      "radioTechnology": "NR"
    },
    "cbsdCategory": "B",
    "cbsdInfo": {
      "model": "OUTDOOR",
      "softwareVersion": "OutdoorV1",
      "vendor": "Kolibri-Outdoor"
    },
    "cbsdSerialNumber": "LBNKIASRC250170725.NR",
    "fccId": "2ASK5AIOOD5GSC02",
    "measCapability": [
      "RECEIVED_POWER_WITHOUT_GRANT"
    ],
    "userId": "nokia"
  }
]
```

2026-02-03T07:21:47.236Z - INFO - Response message contains measReportConfig

2026-02-03T07:21:47.236Z - INFO - engine sent successfully, the response to CBRS : {

```
"registrationResponse": [
  {
    "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
    "measReportConfig": [
      "RECEIVED_POWER_WITHOUT_GRANT"
    ],
    "response": {
      "responseCode": 0
    }
  }
]
```

2026-02-03T07:21:48.913Z - INFO - spectrumInquiry request from CBRS : {

```
"spectrumInquiryRequest": [
  {
    "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
    "inquiredSpectrum": [
      {
        "highFrequency": 3640000000,
        "lowFrequency": 3630000000
      },
      {
        "highFrequency": 3650000000,
        "lowFrequency": 3640000000
      },
      {
        "highFrequency": 3660000000,
        "lowFrequency": 3650000000
      }
    ]
  }
]
```

```
{
  "highFrequency": 3670000000,
  "lowFrequency": 3660000000
},
"measReport": {
  "rcvdPowerMeasReports": [
    {
      "measBandwidth": 10000000,
      "measFrequency": 3550000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3560000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3570000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3580000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3590000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3600000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3610000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3620000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3630000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3640000000,
      "measRcvdPower": -99
    }
  ]
}
```

```

        "measBandwidth": 10000000,
        "measFrequency": 3650000000,
        "measRcvdPower": -99
    },
    {
        "measBandwidth": 10000000,
        "measFrequency": 3660000000,
        "measRcvdPower": -99
    },
    {
        "measBandwidth": 10000000,
        "measFrequency": 3670000000,
        "measRcvdPower": -99
    },
    {
        "measBandwidth": 10000000,
        "measFrequency": 3680000000,
        "measRcvdPower": -99
    },
    {
        "measBandwidth": 10000000,
        "measFrequency": 3690000000,
        "measRcvdPower": -99
    }
]
}
]
}
]
}
}
2026-02-03T07:21:48.924Z - INFO - engine sent successfully, the response to CBRS : {
  "spectrumInquiryResponse": [
    {
      "availableChannel": [
        {
          "channelType": "GAA",
          "frequencyRange": {
            "highFrequency": 3640000000,
            "lowFrequency": 3630000000
          },
          "ruleApplied": "FCC_PART_96"
        },
        {
          "channelType": "GAA",
          "frequencyRange": {
            "highFrequency": 3650000000,
            "lowFrequency": 3640000000
          },
          "ruleApplied": "FCC_PART_96"
        },
        {
          "channelType": "GAA",
          "frequencyRange": {
            "highFrequency": 3660000000,
            "lowFrequency": 3650000000
          },
          "ruleApplied": "FCC_PART_96"
        }
      ]
    }
  ]
}

```

```

        "channelType": "GAA",
        "frequencyRange": {
            "highFrequency": 3670000000,
            "lowFrequency": 3660000000
        },
        "ruleApplied": "FCC_PART_96"
    }
},
"cbstdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
"response": {
    "responseCode": 0
}
}
]
}
2026-02-03T07:21:50.335Z - INFO - grant request from CBRS : {
    "grantRequest": [
        {
            "cbstdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
            "measReport": {
                "rcvdPowerMeasReports": [
                    {
                        "measBandwidth": 10000000,
                        "measFrequency": 3550000000,
                        "measRcvdPower": -99
                    },
                    {
                        "measBandwidth": 10000000,
                        "measFrequency": 3560000000,
                        "measRcvdPower": -99
                    },
                    {
                        "measBandwidth": 10000000,
                        "measFrequency": 3570000000,
                        "measRcvdPower": -99
                    },
                    {
                        "measBandwidth": 10000000,
                        "measFrequency": 3580000000,
                        "measRcvdPower": -99
                    },
                    {
                        "measBandwidth": 10000000,
                        "measFrequency": 3590000000,
                        "measRcvdPower": -99
                    },
                    {
                        "measBandwidth": 10000000,
                        "measFrequency": 3600000000,
                        "measRcvdPower": -99
                    },
                    {
                        "measBandwidth": 10000000,
                        "measFrequency": 3610000000,
                        "measRcvdPower": -99
                    },
                    {
                        "measBandwidth": 10000000,

```

```

        "measFrequency": 3620000000,
        "measRcvdPower": -99
    },
    {
        "measBandwidth": 10000000,
        "measFrequency": 3630000000,
        "measRcvdPower": -99
    },
    {
        "measBandwidth": 10000000,
        "measFrequency": 3640000000,
        "measRcvdPower": -99
    },
    {
        "measBandwidth": 10000000,
        "measFrequency": 3650000000,
        "measRcvdPower": -99
    },
    {
        "measBandwidth": 10000000,
        "measFrequency": 3660000000,
        "measRcvdPower": -99
    },
    {
        "measBandwidth": 10000000,
        "measFrequency": 3670000000,
        "measRcvdPower": -99
    },
    {
        "measBandwidth": 10000000,
        "measFrequency": 3680000000,
        "measRcvdPower": -99
    },
    {
        "measBandwidth": 10000000,
        "measFrequency": 3690000000,
        "measRcvdPower": -99
    }
]
},
"operationParam": {
    "maxEirp": 37.0,
    "operationFrequencyRange": {
        "highFrequency": 3670000000,
        "lowFrequency": 3630000000
    }
}
}
]
}
}
2026-02-03T07:21:50.342Z - INFO - engine sent successfully, the response to CBRS : {
    "grantResponse": [
        {
            "cbsId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
            "channelType": "GAA",
            "grantExpireTime": "2026-02-10T07:21:50Z",
            "grantId": "84747666",
            "heartbeatInterval": 60,

```

```
"response": {  
  "responseCode": 0  
}  
]  
}
```

2026-02-03T07:21:51.720Z - INFO - arrived to nstep starting question answer session with the technician
2026-02-03T07:37:10.025Z - INFO - The final result of the test : WINNF.FT.C.MES.1 is - passed

5 CBSD Relinquishment Process

5.1 WINNF.FT.C.RLQ.1

2026-01-21T09:27:42.015Z - INFO - WINNF TEST HARNESS RELEASE: 1.0.0.3 - 2018-November-13

2026-01-21T09:27:42.016Z - INFO - the selected test from the user : WINNF.FT.C.RLQ.1 is starting now

2026-01-21T09:33:53.312Z - INFO - registration request from CBRS : {

```
"registrationRequest": [
  {
    "airInterface": {
      "radioTechnology": "NR"
    },
    "cbsdCategory": "B",
    "cbsdInfo": {
      "model": "OUTDOOR",
      "softwareVersion": "OutdoorV1",
      "vendor": "Kolibri-Outdoor"
    },
    "cbsdSerialNumber": "LBNKIASRC250170725.NR",
    "fccId": "2ASK5AIOOD5GSC02",
    "measCapability": [
      "RECEIVED_POWER_WITHOUT_GRANT"
    ],
    "userId": "nokia"
  }
]
```

2026-01-21T09:33:53.334Z - INFO - engine sent successfully, the response to CBRS : {

```
"registrationResponse": [
  {
    "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
    "response": {
      "responseCode": 0
    }
  }
]
```

2026-01-21T09:33:53.608Z - INFO - spectrumInquiry request from CBRS : {

```
"spectrumInquiryRequest": [
  {
    "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
    "inquiredSpectrum": [
      {
        "highFrequency": 3640000000,
        "lowFrequency": 3630000000
      },
      {
        "highFrequency": 3650000000,
        "lowFrequency": 3640000000
      },
      {
        "highFrequency": 3660000000,
        "lowFrequency": 3650000000
      },
      {
        "highFrequency": 3670000000,
        "lowFrequency": 3660000000
      }
    ]
  }
]
```

```
],
"measReport": {
  "rcvdPowerMeasReports": [
    {
      "measBandwidth": 10000000,
      "measFrequency": 3550000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3560000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3570000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3580000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3590000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3600000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3610000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3620000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3630000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3640000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3650000000,
      "measRcvdPower": -99
    }
  ]
}
```

```

        {
            "measBandwidth": 10000000,
            "measFrequency": 3660000000,
            "measRcvdPower": -99
        },
        {
            "measBandwidth": 10000000,
            "measFrequency": 3670000000,
            "measRcvdPower": -99
        },
        {
            "measBandwidth": 10000000,
            "measFrequency": 3680000000,
            "measRcvdPower": -99
        },
        {
            "measBandwidth": 10000000,
            "measFrequency": 3690000000,
            "measRcvdPower": -99
        }
    ]
}

2026-01-21T09:33:53.618Z - INFO - engine sent successfully, the response to CBRS : {
    "spectrumInquiryResponse": [
        {
            "availableChannel": [
                {
                    "channelType": "GAA",
                    "frequencyRange": {
                        "highFrequency": 3640000000,
                        "lowFrequency": 3630000000
                    },
                    "ruleApplied": "FCC_PART_96"
                },
                {
                    "channelType": "GAA",
                    "frequencyRange": {
                        "highFrequency": 3650000000,
                        "lowFrequency": 3640000000
                    },
                    "ruleApplied": "FCC_PART_96"
                },
                {
                    "channelType": "GAA",
                    "frequencyRange": {
                        "highFrequency": 3660000000,
                        "lowFrequency": 3650000000
                    },
                    "ruleApplied": "FCC_PART_96"
                }
            ]
        }
    ]
}

```

```

    },
    "ruleApplied": "FCC_PART_96"
  }
],
"cbstdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
"response": {
  "responseCode": 0
}
}
]
}
2026-01-21T09:33:53.884Z - INFO - grant request from CBRS : {
  "grantRequest": [
    {
      "cbstdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "measReport": {
        "rcvdPowerMeasReports": [
          {
            "measBandwidth": 10000000,
            "measFrequency": 3550000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3560000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3570000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3580000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3590000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3600000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3610000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3620000000,
            "measRcvdPower": -99
          }
        ]
      }
    }
  ]
}

```

```

    "measBandwidth": 10000000,
    "measFrequency": 3630000000,
    "measRcvdPower": -99
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3640000000,
    "measRcvdPower": -99
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3650000000,
    "measRcvdPower": -99
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3660000000,
    "measRcvdPower": -99
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3670000000,
    "measRcvdPower": -99
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3680000000,
    "measRcvdPower": -99
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3690000000,
    "measRcvdPower": -99
  }
]
},
"operationParam": {
  "maxEirp": 37.0,
  "operationFrequencyRange": {
    "highFrequency": 3670000000,
    "lowFrequency": 3630000000
  }
}
}
]
}
}
2026-01-21T09:33:53.892Z - INFO - engine sent successfully, the response to CBRS : {
  "grantResponse": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "channelType": "GAA",
      "grantExpireTime": "2026-01-28T09:33:53Z",
      "grantId": "787790108",
      "heartbeatInterval": 60,
      "response": {
        "responseCode": 0
      }
    }
  ]
}

```

```

    ]
  }
2026-01-21T09:33:54.207Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "787790108",
      "grantRenew": false,
      "operationState": "GRANTED"
    }
  ]
}
2026-01-21T09:33:54.213Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "787790108",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2026-01-21T09:37:14Z"
    }
  ]
}
2026-01-21T09:34:48.483Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "787790108",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2026-01-21T09:34:48.483Z - INFO - Time interval between two heartbeat request messages is: 54.275, limit
is: 65.0
2026-01-21T09:34:48.489Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "787790108",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2026-01-21T09:38:08Z"
    }
  ]
}
2026-01-21T09:35:42.763Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "787790108",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}

```

2026-01-21T09:35:42.763Z - INFO - Time interval between two heartbeat request messages is: 54.28, limit is: 65.0

2026-01-21T09:35:42.769Z - INFO - engine sent successfully, the response to CBRS : {
 "heartbeatResponse": [
 {
 "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
 "grantId": "787790108",
 "response": {
 "responseCode": 0
 },
 "transmitExpireTime": "2026-01-21T09:39:02Z"
 },
]
}

2026-01-21T09:36:37.062Z - INFO - heartbeat request from CBRS : {
 "heartbeatRequest": [
 {
 "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
 "grantId": "787790108",
 "grantRenew": false,
 "operationState": "AUTHORIZED"
 },
]
}

2026-01-21T09:36:37.063Z - INFO - Time interval between two heartbeat request messages is: 54.3, limit is: 65.0

2026-01-21T09:36:37.069Z - INFO - engine sent successfully, the response to CBRS : {
 "heartbeatResponse": [
 {
 "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
 "grantId": "787790108",
 "response": {
 "responseCode": 0
 },
 "transmitExpireTime": "2026-01-21T09:39:57Z"
 },
]
}

2026-01-21T09:37:31.378Z - INFO - relinquishment request from CBRS : {
 "relinquishmentRequest": [
 {
 "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
 "grantId": "787790108"
 },
]
}

2026-01-21T09:37:31.384Z - INFO - engine sent successfully, the response to CBRS : {
 "relinquishmentResponse": [
 {
 "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
 "grantId": "787790108",
 "response": {
 "responseCode": 0
 },
 },
]
}

2026-01-21T09:37:33.272Z - INFO - arrived to nstep starting question answer session with the technician

2026-01-21T09:37:33.273Z - INFO - the question is : Did CBSD1 cease RF transmission before receipt of Relinquishment Request by Test Harness? please choose one of the answers :
2026-01-21T09:40:04.424Z - INFO - for the question : Did CBSD1 cease RF transmission before receipt of Relinquishment Request by Test Harness? , the user choose y
2026-01-21T09:40:05.107Z - INFO - The final result of the test : WINNF.FT.C.RLQ.1 is - passed

6 CBSD Deregistration Process

6.1 WINNF.FT.C.DRG.1

2026-01-21T09:55:23.220Z - INFO - WINNF TEST HARNESS RELEASE: 1.0.0.3 - 2018-November-13

2026-01-21T09:55:23.221Z - INFO - the selected test from the user : WINNF.FT.C.DRG.1 is starting now

2026-01-21T10:01:54.721Z - INFO - registration request from CBRS : {

```
"registrationRequest": [
  {
    "airInterface": {
      "radioTechnology": "NR"
    },
    "cbsdCategory": "B",
    "cbsdInfo": {
      "model": "OUTDOOR",
      "softwareVersion": "OutdoorV1",
      "vendor": "Kolibri-Outdoor"
    },
    "cbsdSerialNumber": "LBNKIASRC250170725.NR",
    "fccId": "2ASK5AIOOD5GSC02",
    "measCapability": [
      "RECEIVED_POWER_WITHOUT_GRANT"
    ],
    "userId": "nokia"
  }
]
```

2026-01-21T10:01:54.776Z - INFO - engine sent successfully, the response to CBRS : {

```
"registrationResponse": [
  {
    "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
    "response": {
      "responseCode": 0
    }
  }
]
```

2026-01-21T10:01:55.076Z - INFO - spectrumInquiry request from CBRS : {

```
"spectrumInquiryRequest": [
  {
    "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
    "inquiredSpectrum": [
      {
        "highFrequency": 3640000000,
        "lowFrequency": 3630000000
      },
      {
        "highFrequency": 3650000000,
        "lowFrequency": 3640000000
      },
      {
        "highFrequency": 3660000000,
        "lowFrequency": 3650000000
      },
      {
        "highFrequency": 3670000000,
        "lowFrequency": 3660000000
      }
    ]
  }
]
```

```

],
"measReport": {
  "rcvdPowerMeasReports": [
    {
      "measBandwidth": 10000000,
      "measFrequency": 3550000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3560000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3570000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3580000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3590000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3600000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3610000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3620000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3630000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3640000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3650000000,
      "measRcvdPower": -99
    }
  ]
}

```

```

        {
            "measBandwidth": 10000000,
            "measFrequency": 3660000000,
            "measRcvdPower": -99
        },
        {
            "measBandwidth": 10000000,
            "measFrequency": 3670000000,
            "measRcvdPower": -99
        },
        {
            "measBandwidth": 10000000,
            "measFrequency": 3680000000,
            "measRcvdPower": -99
        },
        {
            "measBandwidth": 10000000,
            "measFrequency": 3690000000,
            "measRcvdPower": -99
        }
    ]
}

2026-01-21T10:01:55.088Z - INFO - engine sent successfully, the response to CBRS : {
    "spectrumInquiryResponse": [
        {
            "availableChannel": [
                {
                    "channelType": "GAA",
                    "frequencyRange": {
                        "highFrequency": 3640000000,
                        "lowFrequency": 3630000000
                    },
                    "ruleApplied": "FCC_PART_96"
                },
                {
                    "channelType": "GAA",
                    "frequencyRange": {
                        "highFrequency": 3650000000,
                        "lowFrequency": 3640000000
                    },
                    "ruleApplied": "FCC_PART_96"
                },
                {
                    "channelType": "GAA",
                    "frequencyRange": {
                        "highFrequency": 3660000000,
                        "lowFrequency": 3650000000
                    },
                    "ruleApplied": "FCC_PART_96"
                }
            ]
        }
    ]
}

```

```

    },
    "ruleApplied": "FCC_PART_96"
  }
],
"cbstdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
"response": {
  "responseCode": 0
}
}
]
}
2026-01-21T10:01:55.334Z - INFO - grant request from CBRS : {
  "grantRequest": [
    {
      "cbstdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "measReport": {
        "rcvdPowerMeasReports": [
          {
            "measBandwidth": 10000000,
            "measFrequency": 3550000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3560000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3570000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3580000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3590000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3600000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3610000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3620000000,
            "measRcvdPower": -99
          }
        ]
      }
    }
  ]
}

```

```

        "measBandwidth": 10000000,
        "measFrequency": 3630000000,
        "measRcvdPower": -99
    },
    {
        "measBandwidth": 10000000,
        "measFrequency": 3640000000,
        "measRcvdPower": -99
    },
    {
        "measBandwidth": 10000000,
        "measFrequency": 3650000000,
        "measRcvdPower": -99
    },
    {
        "measBandwidth": 10000000,
        "measFrequency": 3660000000,
        "measRcvdPower": -99
    },
    {
        "measBandwidth": 10000000,
        "measFrequency": 3670000000,
        "measRcvdPower": -99
    },
    {
        "measBandwidth": 10000000,
        "measFrequency": 3680000000,
        "measRcvdPower": -99
    },
    {
        "measBandwidth": 10000000,
        "measFrequency": 3690000000,
        "measRcvdPower": -99
    }
]
},
"operationParam": {
    "maxEirp": 37.0,
    "operationFrequencyRange": {
        "highFrequency": 3670000000,
        "lowFrequency": 3630000000
    }
}
}
]
}
}
2026-01-21T10:01:55.342Z - INFO - engine sent successfully, the response to CBRS : {
    "grantResponse": [
        {
            "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
            "channelType": "GAA",
            "grantExpireTime": "2026-01-28T10:01:55Z",
            "grantId": "548243288",
            "heartbeatInterval": 60,
            "response": {
                "responseCode": 0
            }
        }
    ]
}

```

```

    ]
  }
2026-01-21T10:01:55.634Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "548243288",
      "grantRenew": false,
      "operationState": "GRANTED"
    }
  ]
}
2026-01-21T10:01:55.641Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "548243288",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2026-01-21T10:05:15Z"
    }
  ]
}
2026-01-21T10:02:49.918Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "548243288",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2026-01-21T10:02:49.920Z - INFO - Time interval between two heartbeat request messages is: 54.285, limit
is: 65.0
2026-01-21T10:02:49.926Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "548243288",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2026-01-21T10:06:09Z"
    }
  ]
}
2026-01-21T10:03:44.203Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "548243288",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}

```

2026-01-21T10:03:44.204Z - INFO - Time interval between two heartbeat request messages is: 54.285, limit is: 65.0

2026-01-21T10:03:44.210Z - INFO - engine sent successfully, the response to CBRS : {

```
"heartbeatResponse": [
  {
    "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
    "grantId": "548243288",
    "response": {
      "responseCode": 0
    },
    "transmitExpireTime": "2026-01-21T10:07:04Z"
  }
]
```

2026-01-21T10:04:38.503Z - INFO - heartbeat request from CBRS : {

```
"heartbeatRequest": [
  {
    "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
    "grantId": "548243288",
    "grantRenew": false,
    "operationState": "AUTHORIZED"
  }
]
```

2026-01-21T10:04:38.505Z - INFO - Time interval between two heartbeat request messages is: 54.3, limit is: 65.0

2026-01-21T10:04:38.509Z - INFO - engine sent successfully, the response to CBRS : {

```
"heartbeatResponse": [
  {
    "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
    "grantId": "548243288",
    "response": {
      "responseCode": 0
    },
    "transmitExpireTime": "2026-01-21T10:07:58Z"
  }
]
```

2026-01-21T10:05:32.793Z - INFO - heartbeat request from CBRS : {

```
"heartbeatRequest": [
  {
    "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
    "grantId": "548243288",
    "grantRenew": false,
    "operationState": "AUTHORIZED"
  }
]
```

2026-01-21T10:05:32.795Z - INFO - Time interval between two heartbeat request messages is: 54.29, limit is: 65.0

2026-01-21T10:05:32.799Z - INFO - engine sent successfully, the response to CBRS : {

```
"heartbeatResponse": [
  {
    "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
    "grantId": "548243288",
    "response": {
      "responseCode": 0
    },
  },
]
```

```

    "transmitExpireTime": "2026-01-21T10:08:52Z"
  }
]
}
2026-01-21T10:06:27.092Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "548243288",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2026-01-21T10:06:27.094Z - INFO - Time interval between two heartbeat request messages is: 54.299, limit
is: 65.0
2026-01-21T10:06:27.098Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "548243288",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2026-01-21T10:09:47Z"
    }
  ]
}
}
2026-01-21T10:07:21.382Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "548243288",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
}
2026-01-21T10:07:21.384Z - INFO - Time interval between two heartbeat request messages is: 54.291, limit
is: 65.0
2026-01-21T10:07:21.388Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "548243288",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2026-01-21T10:10:41Z"
    }
  ]
}
}
2026-01-21T10:08:15.664Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "548243288",
      "grantRenew": false,

```

```

        "operationState": "AUTHORIZED"
    }
]
}
2026-01-21T10:08:15.665Z - INFO - Time interval between two heartbeat request messages is: 54.281, limit
is: 65.0
2026-01-21T10:08:15.671Z - INFO - engine sent successfully, the response to CBRS : {
    "heartbeatResponse": [
        {
            "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
            "grantId": "548243288",
            "response": {
                "responseCode": 0
            },
            "transmitExpireTime": "2026-01-21T10:11:35Z"
        }
    ]
}
2026-01-21T10:09:09.944Z - INFO - heartbeat request from CBRS : {
    "heartbeatRequest": [
        {
            "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
            "grantId": "548243288",
            "grantRenew": false,
            "operationState": "AUTHORIZED"
        }
    ]
}
2026-01-21T10:09:09.947Z - INFO - Time interval between two heartbeat request messages is: 54.28, limit is:
65.0
2026-01-21T10:09:09.951Z - INFO - engine sent successfully, the response to CBRS : {
    "heartbeatResponse": [
        {
            "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
            "grantId": "548243288",
            "response": {
                "responseCode": 0
            },
            "transmitExpireTime": "2026-01-21T10:12:29Z"
        }
    ]
}
2026-01-21T10:10:04.243Z - INFO - heartbeat request from CBRS : {
    "heartbeatRequest": [
        {
            "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
            "grantId": "548243288",
            "grantRenew": false,
            "operationState": "AUTHORIZED"
        }
    ]
}
2026-01-21T10:10:04.244Z - INFO - Time interval between two heartbeat request messages is: 54.299, limit
is: 65.0
2026-01-21T10:10:04.250Z - INFO - engine sent successfully, the response to CBRS : {
    "heartbeatResponse": [
        {
            "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",

```

```

        "grantId": "548243288",
        "response": {
            "responseCode": 0
        },
        "transmitExpireTime": "2026-01-21T10:13:24Z"
    }
}
2026-01-21T10:10:58.532Z - INFO - heartbeat request from CBRS : {
    "heartbeatRequest": [
        {
            "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
            "grantId": "548243288",
            "grantRenew": false,
            "operationState": "AUTHORIZED"
        }
    ]
}
2026-01-21T10:10:58.535Z - INFO - Time interval between two heartbeat request messages is: 54.29, limit is:
65.0
2026-01-21T10:10:58.539Z - INFO - engine sent successfully, the response to CBRS : {
    "heartbeatResponse": [
        {
            "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
            "grantId": "548243288",
            "response": {
                "responseCode": 0
            },
            "transmitExpireTime": "2026-01-21T10:14:18Z"
        }
    ]
}
2026-01-21T10:11:52.821Z - INFO - heartbeat request from CBRS : {
    "heartbeatRequest": [
        {
            "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
            "grantId": "548243288",
            "grantRenew": false,
            "operationState": "AUTHORIZED"
        }
    ]
}
2026-01-21T10:11:52.822Z - INFO - Time interval between two heartbeat request messages is: 54.287, limit
is: 65.0
2026-01-21T10:11:52.826Z - INFO - engine sent successfully, the response to CBRS : {
    "heartbeatResponse": [
        {
            "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
            "grantId": "548243288",
            "response": {
                "responseCode": 0
            },
            "transmitExpireTime": "2026-01-21T10:15:12Z"
        }
    ]
}
2026-01-21T10:12:47.105Z - INFO - heartbeat request from CBRS : {
    "heartbeatRequest": [

```

```

    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "548243288",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2026-01-21T10:12:47.107Z - INFO - Time interval between two heartbeat request messages is: 54.285, limit
is: 65.0
2026-01-21T10:12:47.111Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "548243288",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2026-01-21T10:16:07Z"
    }
  ]
}
2026-01-21T10:13:41.388Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "548243288",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2026-01-21T10:13:41.388Z - INFO - Time interval between two heartbeat request messages is: 54.282, limit
is: 65.0
2026-01-21T10:13:41.394Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "548243288",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2026-01-21T10:17:01Z"
    }
  ]
}
2026-01-21T10:14:35.671Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "548243288",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2026-01-21T10:14:35.674Z - INFO - Time interval between two heartbeat request messages is: 54.284, limit
is: 65.0

```

```

2026-01-21T10:14:35.677Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "548243288",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2026-01-21T10:17:55Z"
    }
  ]
}
2026-01-21T10:15:29.956Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "548243288",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2026-01-21T10:15:29.957Z - INFO - Time interval between two heartbeat request messages is: 54.284, limit
is: 65.0
2026-01-21T10:15:29.961Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "548243288",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2026-01-21T10:18:49Z"
    }
  ]
}
2026-01-21T10:16:24.246Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "548243288",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2026-01-21T10:16:24.247Z - INFO - Time interval between two heartbeat request messages is: 54.291, limit
is: 65.0
2026-01-21T10:16:24.253Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "548243288",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2026-01-21T10:19:44Z"
    }
  ]
}

```

```

    ]
  }
2026-01-21T10:17:18.529Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "548243288",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2026-01-21T10:17:18.529Z - INFO - Time interval between two heartbeat request messages is: 54.282, limit
is: 65.0
2026-01-21T10:17:18.536Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "548243288",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2026-01-21T10:20:38Z"
    }
  ]
}
2026-01-21T10:18:12.811Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "548243288",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2026-01-21T10:18:12.812Z - INFO - Time interval between two heartbeat request messages is: 54.282, limit
is: 65.0
2026-01-21T10:18:12.821Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "548243288",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2026-01-21T10:21:32Z"
    }
  ]
}
2026-01-21T10:19:29.697Z - INFO - relinquishment request from CBRS : {
  "relinquishmentRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "548243288"
    }
  ]
}

```

2026-01-21T10:19:29.720Z - INFO - engine sent successfully, the response to CBRS : {

```
"relinquishmentResponse": [
  {
    "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
    "grantId": "548243288",
    "response": {
      "responseCode": 0
    }
  }
]
```

}
2026-01-21T10:19:29.990Z - INFO - deregistration request from CBRS : {

```
"deregistrationRequest": [
  {
    "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR"
  }
]
```

}
2026-01-21T10:19:30.012Z - INFO - engine sent successfully, the response to CBRS : {

```
"deregistrationResponse": [
  {
    "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
    "response": {
      "responseCode": 0
    }
  }
]
```

}
2026-01-21T10:19:31.848Z - INFO - arrived to nstep starting question answer session with the technician
2026-01-21T10:19:31.849Z - INFO - the question is : Did CBSD1 cease RF transmission before receipt of Relinquishment request (if sent) or Deregistration request at Test Harness? please choose one of the answers :

2026-01-21T10:20:11.221Z - INFO - for the question : Did CBSD1 cease RF transmission before receipt of Relinquishment request (if sent) or Deregistration request at Test Harness? , the user choose y

2026-01-21T10:20:11.711Z - INFO - The final result of the test : WINNF.FT.C.DRG.1 is - passed

7 CBSD Security Validation

7.1 WINNF.FT.C.SCS.1

2026-01-21T07:41:02.736Z - INFO - WINNF TEST HARNESS RELEASE: 1.0.0.3 - 2018-November-13

2026-01-21T07:41:02.736Z - INFO - the selected test from the user : WINNF.FT.C.SCS.1 is starting now

2026-01-21T07:47:40.979Z - INFO - registration request from CBRS : {

```
"registrationRequest": [
  {
    "airInterface": {
      "radioTechnology": "NR"
    },
    "cbsdCategory": "B",
    "cbsdInfo": {
      "model": "OUTDOOR",
      "softwareVersion": "OutdoorV1",
      "vendor": "Kolibri-Outdoor"
    },
    "cbsdSerialNumber": "LBNKIASRC250170725.NR",
    "fccId": "2ASK5AIOOD5GSC02",
    "measCapability": [
      "RECEIVED_POWER_WITHOUT_GRANT"
    ],
    "userId": "nokia"
  }
]
```

2026-01-21T07:47:41.000Z - INFO - engine sent successfully, the response to CBRS : {

```
"registrationResponse": [
  {
    "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
    "response": {
      "responseCode": 0
    }
  }
]
```

2026-01-21T07:47:42.907Z - INFO - arrived to nstep starting question answer session with the technician

2026-01-21T07:47:42.908Z - INFO - the question is : Were there RF transmissions from the CBSD1 during the test? please choose one of the answers :

2026-01-21T07:59:49.197Z - INFO - for the question : Were there RF transmissions from the CBSD1 during the test? , the user choose n

2026-01-21T07:59:50.119Z - INFO - The final result of the test : WINNF.FT.C.SCS.1 is - passed

7.2 WINNF.FT.C.SCS.2

2025-09-16T06:15:24.042Z - INFO - WINNF TEST HARNESS RELEASE: 1.0.0.3 - 2018-November-13

2025-09-16T06:15:24.042Z - INFO - the selected test from the user : WINNF.FT.C.SCS.2 is starting now

7.3 WINNF.FT.C.SCS.3

2025-09-16T06:39:11.085Z - INFO - WINNF TEST HARNESS RELEASE: 1.0.0.3 - 2018-November-13

2025-09-16T06:39:11.086Z - INFO - the selected test from the user : WINNF.FT.C.SCS.3 is starting now

7.4 WINNF.FT.C.SCS.4

2025-09-16T07:13:46.694Z - INFO - WINNF TEST HARNESS RELEASE: 1.0.0.3 - 2018-November-13

2025-09-16T07:13:46.696Z - INFO - the selected test from the user : WINNF.FT.C.SCS.4 is starting now

7.5 WINNF.FT.C.SCS.5

2025-09-16T07:34:51.871Z - INFO - WINNF TEST HARNESS RELEASE: 1.0.0.3 - 2018-November-13

2025-09-16T07:34:51.871Z - INFO - the selected test from the user : WINNF.FT.C.SCS.5 is starting now

8 CBSD RF Power Measurement

8.1 WINNF.PT.C.HBT.1(Max Eirp = 23 dBm/MHz)

2026-01-27T10:06:44.082Z - INFO - WINNF TEST HARNESS RELEASE: 1.0.0.3 - 2018-November-13

2026-01-27T10:06:44.082Z - INFO - Selected spectrum frequency is {'lowFrequency': 3630000000L, 'highFrequency': 3670000000L}

2026-01-27T10:06:44.084Z - INFO - Granted Spectrum Max Eirp = 23dBm/MHz

2026-01-27T10:06:44.084Z - INFO - the selected test from the user : PowerMeasTest is starting now

2026-01-27T10:13:05.461Z - INFO - registration request from CBRS : {

```
"registrationRequest": [
  {
    "airInterface": {
      "radioTechnology": "NR"
    },
    "cbsdCategory": "B",
    "cbsdInfo": {
      "model": "OUTDOOR",
      "softwareVersion": "OutdoorV1",
      "vendor": "Kolibri-Outdoor"
    },
    "cbsdSerialNumber": "LBNKIASRC250170725.NR",
    "fccId": "2ASK5AIOOD5GSC02",
    "measCapability": [
      "RECEIVED_POWER_WITHOUT_GRANT"
    ],
    "userId": "nokia"
  }
]
```

2026-01-27T10:13:05.484Z - INFO - engine sent successfully, the response to CBRS : {

```
"registrationResponse": [
  {
    "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
    "response": {
      "responseCode": 0
    }
  }
]
```

2026-01-27T10:13:05.845Z - INFO - spectrumInquiry request from CBRS : {

```
"spectrumInquiryRequest": [
  {
    "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
    "inquiredSpectrum": [
      {
        "highFrequency": 3640000000,
        "lowFrequency": 3630000000
      },
      {
        "highFrequency": 3650000000,
        "lowFrequency": 3640000000
      },
      {
        "highFrequency": 3660000000,
        "lowFrequency": 3650000000
      }
    ]
  }
]
```

```
"highFrequency": 3670000000,
"lowFrequency": 3660000000
}
],
"measReport": {
  "rcvdPowerMeasReports": [
    {
      "measBandwidth": 10000000,
      "measFrequency": 3550000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3560000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3570000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3580000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3590000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3600000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3610000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3620000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3630000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3640000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
```

```

        "measFrequency": 3650000000,
        "measRcvdPower": -99
      },
      {
        "measBandwidth": 10000000,
        "measFrequency": 3660000000,
        "measRcvdPower": -99
      },
      {
        "measBandwidth": 10000000,
        "measFrequency": 3670000000,
        "measRcvdPower": -99
      },
      {
        "measBandwidth": 10000000,
        "measFrequency": 3680000000,
        "measRcvdPower": -99
      },
      {
        "measBandwidth": 10000000,
        "measFrequency": 3690000000,
        "measRcvdPower": -99
      }
    ]
  }
}
2026-01-27T10:13:05.854Z - INFO - The requested spectrum is in the range, SpectrumInquiry response code is 0
2026-01-27T10:13:05.854Z - INFO - The requested spectrum is in the range, SpectrumInquiry response code is 0
2026-01-27T10:13:05.855Z - INFO - The requested spectrum is in the range, SpectrumInquiry response code is 0
2026-01-27T10:13:05.855Z - INFO - The requested spectrum is in the range, SpectrumInquiry response code is 0
2026-01-27T10:13:05.855Z - INFO - engine sent successfully, the response to CBRS : {
  "spectrumInquiryResponse": [
    {
      "availableChannel": [
        {
          "channelType": "GAA",
          "frequencyRange": {
            "highFrequency": 3640000000,
            "lowFrequency": 3630000000
          },
          "maxEirp": 23,
          "ruleApplied": "FCC_PART_96"
        },
        {
          "channelType": "GAA",
          "frequencyRange": {
            "highFrequency": 3650000000,
            "lowFrequency": 3640000000
          },
          "maxEirp": 23,
          "ruleApplied": "FCC_PART_96"
        }
      ]
    }
  ]
}

```

```

    {
      "channelType": "GAA",
      "frequencyRange": {
        "highFrequency": 3660000000,
        "lowFrequency": 3650000000
      },
      "maxEirp": 23,
      "ruleApplied": "FCC_PART_96"
    },
    {
      "channelType": "GAA",
      "frequencyRange": {
        "highFrequency": 3670000000,
        "lowFrequency": 3660000000
      },
      "maxEirp": 23,
      "ruleApplied": "FCC_PART_96"
    }
  ],
  "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
  "response": {
    "responseCode": 0
  }
}

]
}

2026-01-27T10:13:06.085Z - INFO - grant request from CBRS : {
  "grantRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "measReport": {
        "rcvdPowerMeasReports": [
          {
            "measBandwidth": 10000000,
            "measFrequency": 3550000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3560000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3570000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3580000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3590000000,
            "measRcvdPower": -99
          }
        ]
      }
    }
  ]
}

```

```

        "measBandwidth": 10000000,
        "measFrequency": 3600000000,
        "measRcvdPower": -99
    },
    {
        "measBandwidth": 10000000,
        "measFrequency": 3610000000,
        "measRcvdPower": -99
    },
    {
        "measBandwidth": 10000000,
        "measFrequency": 3620000000,
        "measRcvdPower": -99
    },
    {
        "measBandwidth": 10000000,
        "measFrequency": 3630000000,
        "measRcvdPower": -99
    },
    {
        "measBandwidth": 10000000,
        "measFrequency": 3640000000,
        "measRcvdPower": -99
    },
    {
        "measBandwidth": 10000000,
        "measFrequency": 3650000000,
        "measRcvdPower": -99
    },
    {
        "measBandwidth": 10000000,
        "measFrequency": 3660000000,
        "measRcvdPower": -99
    },
    {
        "measBandwidth": 10000000,
        "measFrequency": 3670000000,
        "measRcvdPower": -99
    },
    {
        "measBandwidth": 10000000,
        "measFrequency": 3680000000,
        "measRcvdPower": -99
    },
    {
        "measBandwidth": 10000000,
        "measFrequency": 3690000000,
        "measRcvdPower": -99
    }
]
},
"operationParam": {
    "maxEirp": 23.0,
    "operationFrequencyRange": {
        "highFrequency": 3670000000,
        "lowFrequency": 3630000000
    }
}
}

```

```

    }
  ]
}
2026-01-27T10:13:06.094Z - INFO - engine sent successfully, the response to CBRS : {
  "grantResponse": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "channelType": "GAA",
      "grantExpireTime": "2026-02-03T10:13:06Z",
      "grantId": "138221394",
      "heartbeatInterval": 60,
      "response": {
        "responseCode": 0
      }
    }
  ]
}
2026-01-27T10:13:06.387Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "138221394",
      "grantRenew": false,
      "operationState": "GRANTED"
    }
  ]
}
2026-01-27T10:13:06.392Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "138221394",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2026-01-27T10:16:26Z"
    }
  ]
}
2026-01-27T10:14:00.657Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "138221394",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2026-01-27T10:14:00.663Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "138221394",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2026-01-27T10:17:20Z"
    }
  ]
}

```

```

    }
  ]
}
2026-01-27T10:14:54.957Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "138221394",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2026-01-27T10:14:54.963Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "138221394",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2026-01-27T10:18:14Z"
    }
  ]
}
2026-01-27T10:15:49.259Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "138221394",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2026-01-27T10:15:49.265Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "138221394",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2026-01-27T10:19:09Z"
    }
  ]
}
2026-01-27T10:16:43.562Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "138221394",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2026-01-27T10:16:43.566Z - INFO - engine sent successfully, the response to CBRS : {

```

```

    "heartbeatResponse": [
      {
        "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
        "grantId": "138221394",
        "response": {
          "responseCode": 0
        },
        "transmitExpireTime": "2026-01-27T10:20:03Z"
      }
    ]
  }
}
2026-01-27T10:17:37.849Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "138221394",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
}
2026-01-27T10:17:37.857Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "138221394",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2026-01-27T10:20:57Z"
    }
  ]
}
}
2026-01-27T10:21:28.591Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "138221394",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
}
2026-01-27T10:21:28.591Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "138221394",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
}
2026-01-27T10:21:28.632Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "138221394",

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        "response": {
            "responseCode": 0
        },
        "transmitExpireTime": "2026-01-27T10:24:48Z"
    }
}
2026-01-27T10:21:28.634Z - INFO - engine sent successfully, the response to CBRS : {
    "heartbeatResponse": [
        {
            "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
            "grantId": "138221394",
            "response": {
                "responseCode": 0
            },
            "transmitExpireTime": "2026-01-27T10:24:48Z"
        }
    ]
}
2026-01-27T10:21:56.190Z - INFO - heartbeat request from CBRS : {
    "heartbeatRequest": [
        {
            "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
            "grantId": "138221394",
            "grantRenew": false,
            "operationState": "GRANTED"
        }
    ]
}
2026-01-27T10:21:56.194Z - INFO - engine sent successfully, the response to CBRS : {
    "heartbeatResponse": [
        {
            "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
            "grantId": "138221394",
            "response": {
                "responseCode": 0
            },
            "transmitExpireTime": "2026-01-27T10:25:16Z"
        }
    ]
}
2026-01-27T10:22:50.476Z - INFO - heartbeat request from CBRS : {
    "heartbeatRequest": [
        {
            "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
            "grantId": "138221394",
            "grantRenew": false,
            "operationState": "AUTHORIZED"
        }
    ]
}
2026-01-27T10:22:50.483Z - INFO - engine sent successfully, the response to CBRS : {
    "heartbeatResponse": [
        {
            "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
            "grantId": "138221394",
            "response": {
                "responseCode": 0
            }
        }
    ]
}

```

```

    },
    "transmitExpireTime": "2026-01-27T10:26:10Z"
  }
]
}
2026-01-27T10:23:44.773Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "138221394",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2026-01-27T10:23:44.779Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "138221394",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2026-01-27T10:27:04Z"
    }
  ]
}
2026-01-27T10:24:39.085Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "138221394",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2026-01-27T10:24:39.091Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "138221394",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2026-01-27T10:27:59Z"
    }
  ]
}
2026-01-27T10:25:33.401Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "138221394",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}

```

```
}
2026-01-27T10:25:33.405Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "138221394",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2026-01-27T10:28:53Z"
    }
  ]
}
2026-01-27T10:26:27.683Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "138221394",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2026-01-27T10:26:27.688Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "138221394",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2026-01-27T10:29:47Z"
    }
  ]
}
2026-01-27T10:27:21.967Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "138221394",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2026-01-27T10:27:21.973Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "138221394",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2026-01-27T10:30:41Z"
    }
  ]
}
2026-01-27T10:28:16.255Z - INFO - heartbeat request from CBRS : {
```

```
"heartbeatRequest": [  
  {  
    "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",  
    "grantId": "138221394",  
    "grantRenew": false,  
    "operationState": "AUTHORIZED"  
  }  
]  
}  
2026-01-27T10:28:16.259Z - INFO - engine sent successfully, the response to CBRS : {  
  "heartbeatResponse": [  
    {  
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",  
      "grantId": "138221394",  
      "response": {  
        "responseCode": 0  
      },  
      "transmitExpireTime": "2026-01-27T10:31:36Z"  
    }  
  ]  
}  
}
```

8.2 WINNF.PT.C.HBT.1(Max Eirp = 30 dBm/MHz)

2026-01-27T10:40:34.032Z - INFO - WINNF TEST HARNESS RELEASE: 1.0.0.3 - 2018-November-13

2026-01-27T10:40:34.033Z - INFO - Selected spectrum frequency is {'lowFrequency': 3630000000L, 'highFrequency': 3670000000L}

2026-01-27T10:40:34.033Z - INFO - Granted Spectrum Max Eirp = 30dBm/MHz

2026-01-27T10:40:34.035Z - INFO - the selected test from the user : PowerMeasTest is starting now

2026-01-27T10:47:09.891Z - INFO - registration request from CBRS : {

```
"registrationRequest": [
  {
    "airInterface": {
      "radioTechnology": "NR"
    },
    "cbsdCategory": "B",
    "cbsdInfo": {
      "model": "OUTDOOR",
      "softwareVersion": "OutdoorV1",
      "vendor": "Kolibri-Outdoor"
    },
    "cbsdSerialNumber": "LBNKIASRC250170725.NR",
    "fccId": "2ASK5AIOOD5GSC02",
    "measCapability": [
      "RECEIVED_POWER_WITHOUT_GRANT"
    ],
    "userId": "nokia"
  }
]
```

2026-01-27T10:47:09.917Z - INFO - engine sent successfully, the response to CBRS : {

```
"registrationResponse": [
  {
    "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
    "response": {
      "responseCode": 0
    }
  }
]
```

2026-01-27T10:47:10.194Z - INFO - spectrumInquiry request from CBRS : {

```
"spectrumInquiryRequest": [
  {
    "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
    "inquiredSpectrum": [
      {
        "highFrequency": 3640000000,
        "lowFrequency": 3630000000
      },
      {
        "highFrequency": 3650000000,
        "lowFrequency": 3640000000
      },
      {
        "highFrequency": 3660000000,
        "lowFrequency": 3650000000
      }
    ]
  }
]
```

```
"highFrequency": 3670000000,
"lowFrequency": 3660000000
}
],
"measReport": {
  "rcvdPowerMeasReports": [
    {
      "measBandwidth": 10000000,
      "measFrequency": 3550000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3560000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3570000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3580000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3590000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3600000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3610000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3620000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3630000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
      "measFrequency": 3640000000,
      "measRcvdPower": -99
    },
    {
      "measBandwidth": 10000000,
```

```

    "measFrequency": 3650000000,
    "measRcvdPower": -99
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3660000000,
    "measRcvdPower": -99
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3670000000,
    "measRcvdPower": -99
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3680000000,
    "measRcvdPower": -99
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3690000000,
    "measRcvdPower": -99
  }
}

```

```

}
2026-01-27T10:47:10.201Z - INFO - The requested spectrum is in the range, SpectrumInquiry response code is 0
2026-01-27T10:47:10.203Z - INFO - The requested spectrum is in the range, SpectrumInquiry response code is 0
2026-01-27T10:47:10.203Z - INFO - The requested spectrum is in the range, SpectrumInquiry response code is 0
2026-01-27T10:47:10.203Z - INFO - The requested spectrum is in the range, SpectrumInquiry response code is 0
2026-01-27T10:47:10.203Z - INFO - engine sent successfully, the response to CBRS  : {
  "spectrumInquiryResponse": [
    {
      "availableChannel": [
        {
          "channelType": "GAA",
          "frequencyRange": {
            "highFrequency": 3640000000,
            "lowFrequency": 3630000000
          },
          "maxEirp": 30,
          "ruleApplied": "FCC_PART_96"
        },
        {
          "channelType": "GAA",
          "frequencyRange": {
            "highFrequency": 3650000000,
            "lowFrequency": 3640000000
          },
          "maxEirp": 30,
          "ruleApplied": "FCC_PART_96"
        }
      ]
    }
  ]
}

```

```

    {
      "channelType": "GAA",
      "frequencyRange": {
        "highFrequency": 3660000000,
        "lowFrequency": 3650000000
      },
      "maxEirp": 30,
      "ruleApplied": "FCC_PART_96"
    },
    {
      "channelType": "GAA",
      "frequencyRange": {
        "highFrequency": 3670000000,
        "lowFrequency": 3660000000
      },
      "maxEirp": 30,
      "ruleApplied": "FCC_PART_96"
    }
  ],
  "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
  "response": {
    "responseCode": 0
  }
}
]
}
2026-01-27T10:47:10.437Z - INFO - grant request from CBRS : {
  "grantRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "measReport": {
        "rcvdPowerMeasReports": [
          {
            "measBandwidth": 10000000,
            "measFrequency": 3550000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3560000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3570000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3580000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3590000000,
            "measRcvdPower": -99
          }
        ]
      }
    }
  ]
}

```

```

    "measBandwidth": 10000000,
    "measFrequency": 3600000000,
    "measRcvdPower": -99
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3610000000,
    "measRcvdPower": -99
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3620000000,
    "measRcvdPower": -99
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3630000000,
    "measRcvdPower": -99
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3640000000,
    "measRcvdPower": -99
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3650000000,
    "measRcvdPower": -99
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3660000000,
    "measRcvdPower": -99
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3670000000,
    "measRcvdPower": -99
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3680000000,
    "measRcvdPower": -99
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3690000000,
    "measRcvdPower": -99
  }
]
},
"operationParam": {
  "maxEirp": 30.0,
  "operationFrequencyRange": {
    "highFrequency": 3670000000,
    "lowFrequency": 3630000000
  }
}
}

```

```

    }
  ]
}
2026-01-27T10:47:10.444Z - INFO - engine sent successfully, the response to CBRS : {
  "grantResponse": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "channelType": "GAA",
      "grantExpireTime": "2026-02-03T10:47:10Z",
      "grantId": "485722425",
      "heartbeatInterval": 60,
      "response": {
        "responseCode": 0
      }
    }
  ]
}
2026-01-27T10:47:10.756Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "485722425",
      "grantRenew": false,
      "operationState": "GRANTED"
    }
  ]
}
2026-01-27T10:47:10.762Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "485722425",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2026-01-27T10:50:30Z"
    }
  ]
}
2026-01-27T10:48:05.029Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "485722425",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2026-01-27T10:48:05.035Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "485722425",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2026-01-27T10:51:25Z"
    }
  ]
}

```

```

    }
  ]
}
2026-01-27T10:48:59.309Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "485722425",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2026-01-27T10:48:59.316Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "485722425",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2026-01-27T10:52:19Z"
    }
  ]
}
2026-01-27T10:49:53.632Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "485722425",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2026-01-27T10:49:53.642Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "485722425",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2026-01-27T10:53:13Z"
    }
  ]
}
2026-01-27T10:50:47.947Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "485722425",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2026-01-27T10:50:47.953Z - INFO - engine sent successfully, the response to CBRS : {

```

```

    "heartbeatResponse": [
      {
        "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
        "grantId": "485722425",
        "response": {
          "responseCode": 0
        },
        "transmitExpireTime": "2026-01-27T10:54:07Z"
      }
    ]
  }
}
2026-01-27T10:51:42.246Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "485722425",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
}
2026-01-27T10:51:42.253Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "485722425",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2026-01-27T10:55:02Z"
    }
  ]
}
}
2026-01-27T10:52:36.559Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "485722425",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
}
2026-01-27T10:52:36.565Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "485722425",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2026-01-27T10:55:56Z"
    }
  ]
}
}
2026-01-27T10:53:30.854Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {

```

```

        "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
        "grantId": "485722425",
        "grantRenew": false,
        "operationState": "AUTHORIZED"
      }
    ]
  }
}
2026-01-27T10:53:30.859Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "485722425",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2026-01-27T10:56:50Z"
    }
  ]
}
}
2026-01-27T10:54:25.191Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "485722425",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
}
2026-01-27T10:54:25.197Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "485722425",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2026-01-27T10:57:45Z"
    }
  ]
}
}
2026-01-27T10:55:19.499Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "485722425",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
}
2026-01-27T10:55:19.507Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "485722425",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2026-01-27T10:57:45Z"
    }
  ]
}
}

```

```

    },
    "transmitExpireTime": "2026-01-27T10:58:39Z"
  }
]
}
2026-01-27T10:56:13.792Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "485722425",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2026-01-27T10:56:13.799Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "485722425",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2026-01-27T10:59:33Z"
    }
  ]
}
2026-01-27T10:57:08.084Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "485722425",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2026-01-27T10:57:08.089Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "485722425",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2026-01-27T11:00:28Z"
    }
  ]
}
2026-01-27T10:58:02.375Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "485722425",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}

```

```
}  
2026-01-27T10:58:02.382Z - INFO - engine sent successfully, the response to CBRS : {  
  "heartbeatResponse": [  
    {  
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",  
      "grantId": "485722425",  
      "response": {  
        "responseCode": 0  
      },  
      "transmitExpireTime": "2026-01-27T11:01:22Z"  
    }  
  ]  
}
```

8.3 WINNF.PT.C.HBT.1(Max Eirp = 37 dBm/MHz)

2026-01-27T06:07:37.381Z - INFO - WINNF TEST HARNESS RELEASE: 1.0.0.3 - 2018-November-13

2026-01-27T06:07:37.381Z - INFO - Selected spectrum frequency is {'lowFrequency': 3630000000L, 'highFrequency': 3670000000L}

2026-01-27T06:07:37.381Z - INFO - Granted Spectrum Max Eirp = 37dBm/MHz

2026-01-27T06:07:37.382Z - INFO - the selected test from the user : PowerMeasTest is starting now

2026-01-27T06:14:06.575Z - INFO - registration request from CBRS : {

```
"registrationRequest": [
  {
    "airInterface": {
      "radioTechnology": "NR"
    },
    "cbsdCategory": "B",
    "cbsdInfo": {
      "model": "OUTDOOR",
      "softwareVersion": "OutdoorV1",
      "vendor": "Kolibri-Outdoor"
    },
    "cbsdSerialNumber": "LBNKIASRC250170725.NR",
    "fccId": "2ASK5AIOOD5GSC02",
    "measCapability": [
      "RECEIVED_POWER_WITHOUT_GRANT"
    ],
    "userId": "nokia"
  }
]
```

2026-01-27T06:14:06.619Z - INFO - engine sent successfully, the response to CBRS : {

```
"registrationResponse": [
  {
    "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
    "response": {
      "responseCode": 0
    }
  }
]
```

2026-01-27T06:14:06.914Z - INFO - spectrumInquiry request from CBRS : {

```
"spectrumInquiryRequest": [
  {
    "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
    "inquiredSpectrum": [
      {
        "highFrequency": 3640000000,
        "lowFrequency": 3630000000
      },
      {
        "highFrequency": 3650000000,
        "lowFrequency": 3640000000
      },
      {
        "highFrequency": 3660000000,
        "lowFrequency": 3650000000
      }
    ]
  }
]
```

```
        "highFrequency": 3670000000,  
        "lowFrequency": 3660000000  
    },  
    ],  
    "measReport": {  
        "rcvdPowerMeasReports": [  
            {  
                "measBandwidth": 10000000,  
                "measFrequency": 3550000000,  
                "measRcvdPower": -99  
            },  
            {  
                "measBandwidth": 10000000,  
                "measFrequency": 3560000000,  
                "measRcvdPower": -99  
            },  
            {  
                "measBandwidth": 10000000,  
                "measFrequency": 3570000000,  
                "measRcvdPower": -99  
            },  
            {  
                "measBandwidth": 10000000,  
                "measFrequency": 3580000000,  
                "measRcvdPower": -99  
            },  
            {  
                "measBandwidth": 10000000,  
                "measFrequency": 3590000000,  
                "measRcvdPower": -99  
            },  
            {  
                "measBandwidth": 10000000,  
                "measFrequency": 3600000000,  
                "measRcvdPower": -99  
            },  
            {  
                "measBandwidth": 10000000,  
                "measFrequency": 3610000000,  
                "measRcvdPower": -99  
            },  
            {  
                "measBandwidth": 10000000,  
                "measFrequency": 3620000000,  
                "measRcvdPower": -99  
            },  
            {  
                "measBandwidth": 10000000,  
                "measFrequency": 3630000000,  
                "measRcvdPower": -99  
            },  
            {  
                "measBandwidth": 10000000,  
                "measFrequency": 3640000000,  
                "measRcvdPower": -99  
            },  
            {  
                "measBandwidth": 10000000,  
                "measFrequency": 3650000000,  
                "measRcvdPower": -99  
            }  
        ]  
    }  
}
```

```

2026-01-27T06:14:06.930Z - INFO - The requested spectrum is in the range, SpectrumInquiry response code
is 0
2026-01-27T06:14:06.930Z - INFO - The requested spectrum is in the range, SpectrumInquiry response code
is 0
2026-01-27T06:14:06.930Z - INFO - The requested spectrum is in the range, SpectrumInquiry response code
is 0
2026-01-27T06:14:06.930Z - INFO - The requested spectrum is in the range, SpectrumInquiry response code
is 0
2026-01-27T06:14:06.934Z - INFO - engine sent successfully, the response to CBRS  : {
  "spectrumInquiryResponse": [
    {
      "availableChannel": [
        {
          "channelType": "GAA",
          "frequencyRange": {
            "highFrequency": 3640000000,
            "lowFrequency": 3630000000
          },
          "maxEirp": 37,
          "ruleApplied": "FCC_PART_96"
        },
        {
          "channelType": "GAA",
          "frequencyRange": {
            "highFrequency": 3650000000,
            "lowFrequency": 3640000000
          },
          "maxEirp": 37,
          "ruleApplied": "FCC_PART_96"
        }
      ]
    }
  ]
}

```

```

    {
      "channelType": "GAA",
      "frequencyRange": {
        "highFrequency": 3660000000,
        "lowFrequency": 3650000000
      },
      "maxEirp": 37,
      "ruleApplied": "FCC_PART_96"
    },
    {
      "channelType": "GAA",
      "frequencyRange": {
        "highFrequency": 3670000000,
        "lowFrequency": 3660000000
      },
      "maxEirp": 37,
      "ruleApplied": "FCC_PART_96"
    }
  ],
  "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
  "response": {
    "responseCode": 0
  }
}

]
}

2026-01-27T06:14:07.210Z - INFO - grant request from CBRS : {
  "grantRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "measReport": {
        "rcvdPowerMeasReports": [
          {
            "measBandwidth": 10000000,
            "measFrequency": 3550000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3560000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3570000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3580000000,
            "measRcvdPower": -99
          },
          {
            "measBandwidth": 10000000,
            "measFrequency": 3590000000,
            "measRcvdPower": -99
          }
        ]
      }
    }
  ]
}

```

```

    "measBandwidth": 10000000,
    "measFrequency": 3600000000,
    "measRcvdPower": -99
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3610000000,
    "measRcvdPower": -99
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3620000000,
    "measRcvdPower": -99
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3630000000,
    "measRcvdPower": -99
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3640000000,
    "measRcvdPower": -99
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3650000000,
    "measRcvdPower": -99
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3660000000,
    "measRcvdPower": -99
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3670000000,
    "measRcvdPower": -99
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3680000000,
    "measRcvdPower": -99
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3690000000,
    "measRcvdPower": -99
  }
]
},
"operationParam": {
  "maxEirp": 37.0,
  "operationFrequencyRange": {
    "highFrequency": 3670000000,
    "lowFrequency": 3630000000
  }
}
}

```

```
    }
  ]
}
2026-01-27T06:14:07.236Z - INFO - engine sent successfully, the response to CBRS : {
  "grantResponse": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "channelType": "GAA",
      "grantExpireTime": "2026-02-03T06:14:07Z",
      "grantId": "491475953",
      "heartbeatInterval": 60,
      "response": {
        "responseCode": 0
      }
    }
  ]
}
2026-01-27T06:14:07.529Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "491475953",
      "grantRenew": false,
      "operationState": "GRANTED"
    }
  ]
}
2026-01-27T06:14:07.540Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "491475953",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2026-01-27T06:17:27Z"
    }
  ]
}
2026-01-27T06:15:01.811Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "491475953",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2026-01-27T06:15:01.816Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "491475953",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2026-01-27T06:18:21Z"
    }
  ]
}
```

```

    }
  ]
}
2026-01-27T06:15:56.088Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "491475953",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2026-01-27T06:15:56.094Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "491475953",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2026-01-27T06:19:16Z"
    }
  ]
}
2026-01-27T06:16:50.382Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "491475953",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2026-01-27T06:16:50.391Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "491475953",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2026-01-27T06:20:10Z"
    }
  ]
}
2026-01-27T06:17:44.668Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "491475953",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2026-01-27T06:17:44.674Z - INFO - engine sent successfully, the response to CBRS : {

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    "heartbeatResponse": [
      {
        "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
        "grantId": "491475953",
        "response": {
          "responseCode": 0
        },
        "transmitExpireTime": "2026-01-27T06:21:04Z"
      }
    ]
  }
}
2026-01-27T06:18:38.950Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "491475953",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
}
2026-01-27T06:18:38.957Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "491475953",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2026-01-27T06:21:58Z"
    }
  ]
}
}
2026-01-27T06:19:33.259Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "491475953",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
}
2026-01-27T06:19:33.265Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "491475953",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2026-01-27T06:22:53Z"
    }
  ]
}
}
2026-01-27T06:20:27.562Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {

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        "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
        "grantId": "491475953",
        "grantRenew": false,
        "operationState": "AUTHORIZED"
    }
]
}
2026-01-27T06:20:27.568Z - INFO - engine sent successfully, the response to CBRS : {
    "heartbeatResponse": [
        {
            "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
            "grantId": "491475953",
            "response": {
                "responseCode": 0
            },
            "transmitExpireTime": "2026-01-27T06:23:47Z"
        }
    ]
}
2026-01-27T06:21:21.875Z - INFO - heartbeat request from CBRS : {
    "heartbeatRequest": [
        {
            "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
            "grantId": "491475953",
            "grantRenew": false,
            "operationState": "AUTHORIZED"
        }
    ]
}
2026-01-27T06:21:21.881Z - INFO - engine sent successfully, the response to CBRS : {
    "heartbeatResponse": [
        {
            "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
            "grantId": "491475953",
            "response": {
                "responseCode": 0
            },
            "transmitExpireTime": "2026-01-27T06:24:41Z"
        }
    ]
}
2026-01-27T06:22:16.184Z - INFO - heartbeat request from CBRS : {
    "heartbeatRequest": [
        {
            "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
            "grantId": "491475953",
            "grantRenew": false,
            "operationState": "AUTHORIZED"
        }
    ]
}
2026-01-27T06:22:16.190Z - INFO - engine sent successfully, the response to CBRS : {
    "heartbeatResponse": [
        {
            "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
            "grantId": "491475953",
            "response": {
                "responseCode": 0
            }
        }
    ]
}

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    },
    "transmitExpireTime": "2026-01-27T06:25:36Z"
  }
]
}
2026-01-27T06:23:10.487Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "491475953",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2026-01-27T06:23:10.493Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "491475953",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2026-01-27T06:26:30Z"
    }
  ]
}
2026-01-27T06:24:04.786Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "491475953",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2026-01-27T06:24:04.790Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "491475953",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2026-01-27T06:27:24Z"
    }
  ]
}
2026-01-27T06:24:59.088Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "491475953",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}

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}
2026-01-27T06:24:59.095Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "491475953",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2026-01-27T06:28:19Z"
    }
  ]
}
2026-01-27T06:25:53.371Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "491475953",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2026-01-27T06:25:53.377Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "491475953",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2026-01-27T06:29:13Z"
    }
  ]
}
2026-01-27T06:26:47.657Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "491475953",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2026-01-27T06:26:47.663Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "491475953",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2026-01-27T06:30:07Z"
    }
  ]
}
2026-01-27T06:27:41.950Z - INFO - heartbeat request from CBRS : {

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    "heartbeatRequest": [
      {
        "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
        "grantId": "491475953",
        "grantRenew": false,
        "operationState": "AUTHORIZED"
      }
    ]
  }
}
2026-01-27T06:27:41.954Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "491475953",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2026-01-27T06:31:01Z"
    }
  ]
}
}
2026-01-27T06:28:36.230Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "491475953",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
}
2026-01-27T06:28:36.234Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "491475953",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2026-01-27T06:31:56Z"
    }
  ]
}
}
2026-01-27T06:29:30.509Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "491475953",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
}
2026-01-27T06:29:30.513Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "491475953",

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        "response": {
            "responseCode": 0
        },
        "transmitExpireTime": "2026-01-27T06:32:50Z"
    }
}
2026-01-27T06:30:24.792Z - INFO - heartbeat request from CBRS : {
    "heartbeatRequest": [
        {
            "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
            "grantId": "491475953",
            "grantRenew": false,
            "operationState": "AUTHORIZED"
        }
    ]
}
2026-01-27T06:30:24.798Z - INFO - engine sent successfully, the response to CBRS : {
    "heartbeatResponse": [
        {
            "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
            "grantId": "491475953",
            "response": {
                "responseCode": 0
            },
            "transmitExpireTime": "2026-01-27T06:33:44Z"
        }
    ]
}
2026-01-27T06:31:19.075Z - INFO - heartbeat request from CBRS : {
    "heartbeatRequest": [
        {
            "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
            "grantId": "491475953",
            "grantRenew": false,
            "operationState": "AUTHORIZED"
        }
    ]
}
2026-01-27T06:31:19.081Z - INFO - engine sent successfully, the response to CBRS : {
    "heartbeatResponse": [
        {
            "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
            "grantId": "491475953",
            "response": {
                "responseCode": 0
            },
            "transmitExpireTime": "2026-01-27T06:34:39Z"
        }
    ]
}
2026-01-27T06:32:13.358Z - INFO - heartbeat request from CBRS : {
    "heartbeatRequest": [
        {
            "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
            "grantId": "491475953",
            "grantRenew": false,
            "operationState": "AUTHORIZED"
        }
    ]
}

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    }
  ]
}
2026-01-27T06:32:13.364Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "491475953",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2026-01-27T06:35:33Z"
    }
  ]
}
2026-01-27T06:33:07.642Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "491475953",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2026-01-27T06:33:07.648Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "491475953",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2026-01-27T06:36:27Z"
    }
  ]
}
2026-01-27T06:34:01.923Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "491475953",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2026-01-27T06:34:01.928Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "491475953",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2026-01-27T06:37:21Z"
    }
  ]
}

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}
2026-01-27T06:34:56.207Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "491475953",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2026-01-27T06:34:56.217Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "491475953",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2026-01-27T06:38:16Z"
    }
  ]
}
2026-01-27T06:35:50.493Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "491475953",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2026-01-27T06:35:50.499Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "491475953",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2026-01-27T06:39:10Z"
    }
  ]
}
2026-01-27T06:36:44.773Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
      "grantId": "491475953",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2026-01-27T06:36:44.779Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
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        "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
        "grantId": "491475953",
        "response": {
            "responseCode": 0
        },
        "transmitExpireTime": "2026-01-27T06:40:04Z"
    }
]
}
2026-01-27T06:37:39.055Z - INFO - heartbeat request from CBRS : {
    "heartbeatRequest": [
        {
            "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
            "grantId": "491475953",
            "grantRenew": false,
            "operationState": "AUTHORIZED"
        }
    ]
}
2026-01-27T06:37:39.059Z - INFO - engine sent successfully, the response to CBRS : {
    "heartbeatResponse": [
        {
            "cbsdId": "2ASK5AIOOD5GSC02Mock-SASLBNKIASRC250170725.NR",
            "grantId": "491475953",
            "response": {
                "responseCode": 0
            },
            "transmitExpireTime": "2026-01-27T06:40:59Z"
        }
    ]
}
}
```