|  |  |  |
| --- | --- | --- |
| **Command** | Opcode | Parameters |
| Single Tone | 0xFC78 | on/off channel  Tx\_power  Is\_LE |

Open/close:

|  |  |
| --- | --- |
| Value | Parameter Description |
| 0x0 off  0x1 on | This parameter control to send single tone or not. |

Size: 1 Octects

channel:

|  |  |
| --- | --- |
| Value | Parameter Description |
| 0x00 – 0x4f or 0x00 – 0x27 | LE channel : 0 – 39  Legacy channel : 0 – 79 |

Size: 1 Octects

Tx\_power:

|  |  |
| --- | --- |
| Value | Parameter Description |
| 0x00 – 0xF0 | TPM support power  0x00 -> 0x10 -> 0x20 ….-> 0xF0  IF input 0x0 will set to 0xe0 |

Size: 1 Octects

Is\_LE:

|  |  |
| --- | --- |
| Value | Parameter Description |
| 0x00 Legacy  0x01 Low Energy |  |

Size: 1 Octects

|  |
| --- |
| **Return Parameter:** |
| Status |

Size: 1 Octects

|  |  |  |
| --- | --- | --- |
| **Command** | Opcode | Parameters |
| Hopping | 0xFD45 | reserved  Open/close start channel  Stop channel |

reserved:

|  |  |
| --- | --- |
| Value | Parameter Description |
| 0x0 | This parameter is use for compatible with BBPro |

Size: 1 Octects

Open/close:

|  |  |
| --- | --- |
| Value | Parameter Description |
| 0x0 off  0x1 on | This parameter control hopping or not. |

Size: 1 Octects

start channel:

|  |  |
| --- | --- |
| Value | Parameter Description |
| 0x00 – 0x26 |  |

Size: 1 Octects

Stop channel:

|  |  |
| --- | --- |
| Value | Parameter Description |
| 0x01 – 0x27 |  |

Size: 1 Octects

start channel should not equal to stop channel

|  |
| --- |
| **Return Parameter:** |
| Status |

Size: 1 Octects

|  |  |  |
| --- | --- | --- |
| **Command** | Opcode | Parameters |
| HCI\_LE\_Enhanced\_Transmitter\_Test | 0x2034 | TX\_Channel  Length\_Of\_Test\_Data  Packet\_Payload  PHY |

TX\_Channel:

|  |  |
| --- | --- |
| Value | Parameter Description |
| 0x00 – 0x27 | Frequency Range: 2402 MHz to 2480 MHz |

Size: 1 Octects

Length\_Of\_Test\_Data:

|  |  |
| --- | --- |
| Value | Parameter Description |
| 0x00-0xFF | Length in bytes of payload data in each packet |

Size: 1 Octects

Packet\_Payload:

|  |  |
| --- | --- |
| Value | Parameter Description |
| 0x00 | PRBS9 sequence |
| 0x01 | Repeated ‘11110000’ |
| 0x02 | Repeated ‘10101010’ |
| 0x03 | PRBS15 sequence |
| 0x04 | Repeated ‘11111111’ |
| 0x05 | Repeated ‘00000000’ |
| 0x06 | Repeated ‘00001111’ |
| 0x07 | Repeated ‘01010101’ |
| 0x08 – 0xFF | Reserved for future use |

Size: 1 Octects

PHY:

|  |  |
| --- | --- |
| Value | Parameter Description |
| 0x00 | Reserved for future use |
| 0x01 | Transmitter set to use the LE 1M PHY |
| 0x02 | Transmitter set to use the LE 2M PHY |
| 0x03 | Transmitter set to use the LE Coded PHY with S=8 data coding |
| 0x04 | Transmitter set to use the LE Coded PHY with S=2 data coding |
| 0x05 – 0xFF | Reserved for future use |

Size: 1 Octects

|  |
| --- |
| **Return Parameter:** |
| Status |

Size: 1 Octects

|  |  |  |
| --- | --- | --- |
| **Command** | Opcode | Parameters |
| HCI\_LE\_Transmitter\_Test | 0x201E | TX\_Channel  Length\_Of\_Test\_Data  Packet\_Payload |

TX\_Channel:

|  |  |
| --- | --- |
| Value | Parameter Description |
| 0x00 – 0x27 | Frequency Range: 2402 MHz to 2480 MHz |

Size: 1 Octects

Length\_Of\_Test\_Data:

|  |  |
| --- | --- |
| Value | Parameter Description |
| 0x00-0xFF | Length in bytes of payload data in each packet |

Size: 1 Octects

Packet\_Payload:

|  |  |
| --- | --- |
| Value | Parameter Description |
| 0x00 | PRBS9 sequence |
| 0x01 | Repeated ‘11110000’ |
| 0x02 | Repeated ‘10101010’ |
| 0x03 | PRBS15 sequence |
| 0x04 | Repeated ‘11111111’ |
| 0x05 | Repeated ‘00000000’ |
| 0x06 | Repeated ‘00001111’ |
| 0x07 | Repeated ‘01010101’ |
| 0x08 – 0xFF | Reserved for future use |

Size: 1 Octects

|  |
| --- |
| **Return Parameter:** |
| Status |

Size: 1 Octects

|  |  |  |
| --- | --- | --- |
| **Command** | Opcode | Parameters |
| HCI\_LE\_Receiver\_Test | 0x201D | RX\_Channel |

RX\_Channel:

|  |  |
| --- | --- |
| Value | Parameter Description |
| 0x00 – 0x27 | Frequency Range: 2402 MHz to 2480 MHz |

Size: 1 Octects

|  |  |  |
| --- | --- | --- |
| **Command** | Opcode | Parameters |
| HCI\_LE\_Test\_End | 0x201F |  |

|  |  |  |
| --- | --- | --- |
| **Command** | Opcode | Parameters |
| LE\_CONT\_TX | 0XFCF1 | TX\_Channel |

TX\_Channel:

|  |  |
| --- | --- |
| Value | Parameter Description |
| 0x00 – 0x27 | Frequency Range: 2402 MHz to 2480 MHz |

Size: 1 Octects

To compatible with BBPro still need to filled other field

0XFC 0xF1 0x1B, target\_bt\_addr\_out[6], 0x7, 0x8, 0x0, 0x1, 0x7f, TX\_Channel, 0x9, 0x0, 0x1, 0x0, 0x20, 0x38, 0x3, 0x0, 0x0, 0x0, 0x0, 0x0, 0x28, 0x1, 0x0

|  |
| --- |
| **Return Parameter:** |
| Status |

Size: 1 Octects

|  |  |  |
| --- | --- | --- |
| **Command** | Opcode | Parameters |
| HCI\_VENDOR\_READ\_THERMAL\_METER\_DATA | 0xFC40 |  |

|  |  |
| --- | --- |
| **Return Parameter:** | Parameter Description |
| Status  Temperature | Temperature 2Byte (celsius)  First Byte LSB, Second MSB |

Size: 3 Octects

|  |  |  |
| --- | --- | --- |
| **Command** | Opcode | Parameters |
| HCI\_VENDOR\_MP\_ENABLE\_TX\_POWER\_TRACKING | 0xFCE8 | Set/Get  Enable/Disable |

Set/Get:

|  |  |
| --- | --- |
| Value | Parameter Description |
| 0x00 Set  0x01 Get |  |

Size: 1 Octects

Enable/Disable:

|  |  |
| --- | --- |
| Value | Parameter Description |
| 0x00 Disable  0x01 Enable |  |

Size: 1 Octects

|  |  |
| --- | --- |
| **Return Parameter:** | Parameter Description |
| Status  Enable/Disable | Enable/Disable return the state of ENABLE\_TX\_POWER\_TRACK |

Size: 2 Octects

|  |  |  |
| --- | --- | --- |
| **Command** | Opcode | Parameters |
| HCI\_XTAL\_CAP\_VALUE | 0xFCFE | Set/Get  Value |

Set/Get:

|  |  |
| --- | --- |
| Value | Parameter Description |
| 0x00 Set  0x01 Get |  |

Size: 1 Octects

Value:

|  |  |
| --- | --- |
| Value | Parameter Description |
| 0x00 – 0xFF | Default : 0x3f (2018.02.27 BEE2) |

Size: 1 Octects

|  |  |
| --- | --- |
| **Return Parameter:** | Parameter Description |
| Status  XTAL\_SC\_XI | XTAL\_SC\_XI should equal to XTAL\_SC\_XO |

Size: 2 Octects