Use grep to search for the .mp3 files:

```
┌──(kali㉿kali)-[~/Illegal_Download_Case/Reference_Files]
└─$ grep -F '.mp3' file_directory_original.csv | cut -f 1,2
r/r 54027-128-4:        Users/Kamryn/AppData/Roaming/Microsoft/Windows/Recent/Contraband
.mp3.lnk
r/r 206278-128-4:       Users/Kamryn/AppData/Roaming/Microsoft/Windows/Recent/Sample-1.m
p3.lnk
r/r 79927-128-4:        Users/Kamryn/AppData/Roaming/uTorrent/Contraband.mp3.torrent
r/r 79927-128-5:        Users/Kamryn/AppData/Roaming/uTorrent/Contraband.mp3.torrent:Zon
e.Identifier
r/r 206281-128-1:       Users/Kamryn/AppData/Roaming/uTorrent/Sample-1.mp3.torrent
r/r 79968-128-1:        Users/Kamryn/Documents/Reference/Work/Contraband.mp3
r/r 80800-128-1:        Users/Kamryn/Documents/Reference/Work/Sample-1.mp3
r/r 80800-128-3:        Users/Kamryn/Documents/Reference/Work/Sample-1.mp3:Zone.Identifi
er
r/r 205963-128-5:       Users/Kamryn/Downloads/Sample-1.mp3
r/r 205963-128-7:       Users/Kamryn/Downloads/Sample-1.mp3:Zone.Identifier
r/r 52901-128-4:        Users/Kamryn/Downloads/Torrent-Sources/Contraband.mp3
r/r 207115-128-1:       Users/Kamryn/Downloads/Torrent-Sources/Sample-1.mp3
r/r 207115-128-3:       Users/Kamryn/Downloads/Torrent-Sources/Sample-1.mp3:Zone.Identif
ier
r/r 55634-128-4:        Users/Kamryn/Downloads/Torrents/Contraband.mp3.torrent
r/r 55634-128-5:        Users/Kamryn/Downloads/Torrents/Contraband.mp3.torrent:Zone.Iden
tifier
r/r 206280-128-4:       Users/Kamryn/Downloads/Torrents/Sample-1.mp3.torrent
r/r 73536-128-4:        Program Files/WindowsApps/Microsoft.XboxApp_48.72.4001.0_x64__8w
ekyb3d8bbwe/Assets/AchievementUnlocked.mp3
r/r 73536-128-4:        Program Files/WindowsApps/Microsoft.XboxGamingOverlay_5.521.2012
.0_x64__8wekyb3d8bbwe/Assets/Sounds/AchievementUnlocked.mp3
r/r 103530-128-4:       Program Files/WindowsApps/Microsoft.XboxGamingOverlay_5.521.2012
.0_x64__8wekyb3d8bbwe/Assets/Sounds/Group_Voice_Entry_Me_SetA_v1.mp3
r/r 103531-128-4:       Program Files/WindowsApps/Microsoft.XboxGamingOverlay_5.521.2012
.0_x64__8wekyb3d8bbwe/Assets/Sounds/Group_Voice_Entry_Others_SetA_v1.mp3
r/r 103532-128-4:       Program Files/WindowsApps/Microsoft.XboxGamingOverlay_5.521.2012
.0_x64__8wekyb3d8bbwe/Assets/Sounds/Group_Voice_Exit_Me_SetA_v1.mp3
r/r 103533-128-4:       Program Files/WindowsApps/Microsoft.XboxGamingOverlay_5.521.2012
.0_x64__8wekyb3d8bbwe/Assets/Sounds/Group_Voice_Exit_Others_SetA_v1.mp3
r/r 103534-128-4:       Program Files/WindowsApps/Microsoft.XboxGamingOverlay_5.521.2012
.0_x64__8wekyb3d8bbwe/Assets/Sounds/Message_Notification_SetA_v14_v2.mp3
```

Use icat to extract .mp3 files:

```
┌──(kali㉿kali)-[~/Illegal_Download_Case/Reference_Files]
└─$ mkdir ../Exports/MP3_Files
mkdir: created directory '../Exports/MP3_Files'

┌──(kali㉿kali)-[~/Illegal_Download_Case/Reference_Files]
└─$ icat -o 104448 ../Case_Materials/Disk_Image_ID-20210327.001 205963-128-5 >> ../Expor
ts/MP3_Files/Sample-1.mp3

┌──(kali㉿kali)-[~/Illegal_Download_Case/Reference_Files]
└─$ icat -o 104448 ../Case_Materials/Disk_Image_ID-20210327.001 52901-128-4 >> ../Export
s/MP3_Files/Contraband.mp3

┌──(kali㉿kali)-[~/Illegal_Download_Case/Reference_Files]
└─$ 
```

Verify you have genuine copies:
Said to skip

Use MD5deep to compare MD5 hash to one in hash_reference.txt:

```
┌──(kali㊞kali)-[~/Illegal_Download_Case/Exports/MP3_Files]
└─$ md5deep Sample-1.mp3 -brewM ../../Case_Materials/hash_reference.txt
md5deep: ../../Case_Materials/hash_reference.txt: No hash found in line 1
md5deep: ../../Case_Materials/hash_reference.txt: No hash found in line 2
md5deep: ../../Case_Materials/hash_reference.txt: No hash found in line 3
md5deep: ../../Case_Materials/hash_reference.txt: No hash found in line 5
md5deep: ../../Case_Materials/hash_reference.txt: No hash found in line 6
md5deep: ../../Case_Materials/hash_reference.txt: No hash found in line 7
md5deep: ../../Case_Materials/hash_reference.txt: No hash found in line 9
md5deep: ../../Case_Materials/hash_reference.txt: No hash found in line 10
md5deep: ../../Case_Materials/hash_reference.txt: No hash found in line 11
md5deep: ../../Case_Materials/hash_reference.txt: No hash found in line 13
md5deep: ../../Case_Materials/hash_reference.txt: No hash found in line 14
md5deep: ../../Case_Materials/hash_reference.txt: No hash found in line 16
md5deep: ../../Case_Materials/hash_reference.txt: No hash found in line 17
b387e8334b3db0346cdfa14511f6913d  Sample-1.mp3 matched Sample-1.mp3
```

```
┌──(kali㊞kali)-[~/Illegal_Download_Case/Exports/MP3_Files]
└─$ md5deep Contraband.mp3  -brewM ../../Case_Materials/hash_reference.txt
md5deep: ../../Case_Materials/hash_reference.txt: No hash found in line 1
md5deep: ../../Case_Materials/hash_reference.txt: No hash found in line 2
md5deep: ../../Case_Materials/hash_reference.txt: No hash found in line 3
md5deep: ../../Case_Materials/hash_reference.txt: No hash found in line 5
md5deep: ../../Case_Materials/hash_reference.txt: No hash found in line 6
md5deep: ../../Case_Materials/hash_reference.txt: No hash found in line 7
md5deep: ../../Case_Materials/hash_reference.txt: No hash found in line 9
md5deep: ../../Case_Materials/hash_reference.txt: No hash found in line 10
md5deep: ../../Case_Materials/hash_reference.txt: No hash found in line 11
md5deep: ../../Case_Materials/hash_reference.txt: No hash found in line 13
md5deep: ../../Case_Materials/hash_reference.txt: No hash found in line 14
md5deep: ../../Case_Materials/hash_reference.txt: No hash found in line 16
md5deep: ../../Case_Materials/hash_reference.txt: No hash found in line 17
f9d82438ed446e43cbd06adf74bc875b  Contraband.mp3 matched Contraband.mp3
```

Use exiftool to see metadata of .mp3 files:

```
┌──(kali㉿kali)-[~/Illegal_Download_Case/Exports/MP3_Files]
└─$ exiftool /media/kali/E8DE4350DE4315EA/Users/Kamryn/Downloads/Sample-1.mp3
ExifTool Version Number         : 12.67
File Name                       : Sample-1.mp3
Directory                       : /media/kali/E8DE4350DE4315EA/Users/Kamryn/Downloads
File Size                       : 65 kB
File Modification Date/Time     : 2021:03:21 16:40:28-04:00
File Access Date/Time           : 2021:03:27 10:16:11-04:00
File Inode Change Date/Time     : 2021:03:21 16:40:54-04:00
File Permissions                : -rwxrwxrwx
File Type                       : MP3
File Type Extension             : mp3
MIME Type                       : audio/mpeg
MPEG Audio Version              : 1
Audio Layer                     : 3
Audio Bitrate                   : 128 kbps
Sample Rate                     : 48000
Channel Mode                    : Stereo
MS Stereo                       : Off
Intensity Stereo                : Off
Copyright Flag                  : False
Original Media                  : False
Emphasis                        : None
Encoder                         : LAME3.97
Lame VBR Quality                : 4
Lame Quality                    : 2
Lame Method                     : CBR
Lame Low Pass Filter            : 17 kHz
Lame Bitrate                    : 128 kbps
Lame Stereo Mode                : Stereo
ID3 Size                        : 4227
Publisher                       : Beat Step
Year                            : 2021
Title                           : New_Movie_Sample-1
Comment                         : Sample to be presented at upcoming meeting
Date/Time Original              : 2021
Duration                        : 3.77 s (approx)
```

```
┌──(kali☉kali)-[~/Illegal_Download_Case/Exports/MP3_Files]
└─$ exiftool /media/kali/E8DE4350DE4315EA/Users/Kamryn/Downloads/Torrent-Sources/Contrab
and.mp3
ExifTool Version Number         : 12.67
File Name                       : Contraband.mp3
Directory                       : /media/kali/E8DE4350DE4315EA/Users/Kamryn/Downloads/To
rrent-Sources
File Size                       : 30 kB
File Modification Date/Time     : 2021:03:27 10:13:44-04:00
File Access Date/Time           : 2021:03:27 10:25:43-04:00
File Inode Change Date/Time     : 2021:03:27 10:25:44-04:00
File Permissions                : -rwxrwxrwx
File Type                       : MP3
File Type Extension             : mp3
MIME Type                       : audio/mpeg
MPEG Audio Version              : 1
Audio Layer                     : 3
Audio Bitrate                   : 128 kbps
Sample Rate                     : 48000
Channel Mode                    : Stereo
MS Stereo                       : Off
Intensity Stereo                : Off
Copyright Flag                  : False
Original Media                  : False
Emphasis                        : None
Encoder                         : LAME3.97
Lame VBR Quality                : 4
Lame Quality                    : 2
Lame Method                     : CBR
Lame Low Pass Filter            : 17 kHz
Lame Bitrate                    : 128 kbps
Lame Stereo Mode                : Stereo
Duration                        : 1.85 s (approx)
```

Use strings to find out which file has the binary structure:

```
┌──(kali☉kali)-[~/Illegal_Download_Case/Exports/MP3_Files]
└─$ strings -t x -f * | grep 'Beat Step'
Contraband.mp3:       e0 Created by Beat Step
Sample-1.mp3:         15 Beat StepTYER
```

Use hexedit to verify output of strings:

```
Processing triggers for man-db (2.12.0-1) ...

┌──(kali☉kali)-[~/Illegal_Download_Case/Exports/MP3_Files]
└─$ hexedit Sample-1.mp3

┌──(kali☉kali)-[~/Illegal_Download_Case/Exports/MP3_Files]
└─$ hexedit Contraband.mp3

┌──(kali☉kali)-[~/Illegal_Download_Case/Exports/MP3_Files]
└─$ █
```

A command line interface will open:

```
00000200   00 00 00 00   00 00 00 00   00 00 00 00   00 00 00 00   ...............
00000210   00 00 00 00   00 00 00 00   00 00 00 00   00 00 00 00   ...............
00000220   00 00 00 00   00 00 00 00   00 00 00 00   00 00 00 00   ...............
00000230   00 00 00 00   00 00 00 00   00 00 00 00   00 00 00 00   ...............
00000240   00 00 00 00   00 00 00 00   00 00 00 00   00 00 00 00   ...............
00000250   00 00 00 00   00 00 00 00   00 00 00 00   00 00 00 00   ...............
00000260   00 00 00 00   00 00 00 00   00 00 00 00   00 00 00 00   ...............
───   Sample-1.mp3        ──0×0/0×FC03──0%───────────────────
```

```
00000200   07 03 81 C0   E0 60 00 DF   10 01 70 CF   68 5C 28 22   ..... ....p.h\(
00000210   31 E0 0A 04   89 78 18 81   60 6C C0 F8   0A 0C 0B 14   1....x.. `l......
00000220   2A FE 6E 38   C5 B3 F0 30   E0 40 28 D8   62 50 58 18   *.n8 ... 0.@(.bPX.
00000230   59 07 FE 23   E0 C1 01 67   04 30 7A 0C   57 FF E2 0E   Y..#... g.0z.W ...
00000240   14 51 72 9B   8B 30 58 89   8F FF C8 A8   CC 07 28 47   .Qr..0X.......(G
00000250   07 4C 38 07   01 11 FF FF   0F 60 60 0B   9C 66 CE 09   .L8......``..f..
00000260   DD 03 E5 E2   6F FF FF C8   A1 07 27 E5   F3 7A 05 C5   ....o.....'..z..
───   Contraband.mp3        ──0×0/0×737F──0%───────────────────
```