

Data File : VU027787.D
Acq On : 24 Oct 2018 15:48
Operator : MD/SY
Sample : MDL04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
MDL04

Quant Time: Oct 25 04:42:19 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Oct 25 04:31:14 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	39805	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	37340	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	19592	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	14808	4.56	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	91.20%
7) Chloroethane-d5	1.68	69	11282	4.59	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	91.80%
11) 1,1-Dichloroethene-d2	2.28	63	22311	3.59	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	71.80%
20) 2-Butanone-d5	4.21	46	50344	51.03	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	102.06%
24) Chloroform-d	4.65	84	26822	4.64	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.80%
26) 1,2-Dichloroethane-d4	5.31	65	16529	4.80	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.00%
32) Benzene-d6	5.34	84	50788	5.10	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	102.00%
36) 1,2-Dichloropropane-d6	6.33	67	18290	5.18	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	103.60%
41) Toluene-d8	7.57	98	48063	5.06	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.20%
43) trans-1,3-Dichloropropene-	7.85	79	7180	5.01	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	100.20%
46) 2-Hexanone-d5	8.32	63	41949	53.04	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	106.08%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	13527	5.04	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	100.80%
64) 1,2-Dichlorobenzene-d4	11.86	152	17691	4.79	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	95.80%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.21	85	1432	0.371 ug/L #	88
3) Chloromethane	1.33	50	1673	0.386 ug/L	83
5) Vinyl chloride	1.40	62	1608	0.385 ug/L #	81
6) Bromomethane	1.63	94	918	0.429 ug/L	82
8) Chloroethane	1.70	64	961	0.426 ug/L	87
9) Trichlorofluoromethane	1.89	101	2231	0.404 ug/L	95
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	1304	0.468 ug/L	88
12) 1,1-Dichloroethene	2.29	96	1205	0.464 ug/L #	1
13) Acetone	2.35	43	3301	4.641 ug/L	90
14) Carbon disulfide	2.49	76	3254	0.365 ug/L	98
15) Methyl Acetate	2.63	43	1081	0.543 ug/L #	57
16) Methylene chloride	2.71	84	1639	0.536 ug/L	95
17) Methyl tert-butyl Ether	3.01	73	3117	0.375 ug/L #	92
18) trans-1,2-Dichloroethene	2.99	96	1104	0.397 ug/L	94
19) 1,1-Dichloroethane	3.45	63	2321	0.378 ug/L	97
21) 2-Butanone	4.30	43	4629	3.967 ug/L	80
22) cis-1,2-Dichloroethene	4.23	96	1236	0.374 ug/L	80

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Quant Title : TRACE VOA SOM01.0
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	397	0.297	ug/L #	83
25) Chloroform	4.68	83	2645	0.427	ug/L	92
27) 1,2-Dichloroethane	5.41	62	1750	0.383	ug/L #	79
29) 1,1,1-Trichloroethane	4.92	97	2104	0.392	ug/L	98
30) Cyclohexane	4.99	56	2279	0.379	ug/L	96
31) Carbon tetrachloride	5.13	117	1663	0.361	ug/L	92
33) Benzene	5.39	78	4786	0.386	ug/L	100
34) Trichloroethene	6.19	95	1316	0.409	ug/L	94
35) Methylcyclohexane	6.42	83	2210	0.411	ug/L	96
37) 1,2-Dichloropropane	6.44	63	1387	0.381	ug/L #	90
38) Bromodichloromethane	6.76	83	1708	0.393	ug/L #	88
39) cis-1,3-Dichloropropene	7.28	75	2008	0.385	ug/L	98
40) 4-Methyl-2-pentanone	7.47	43	11295	4.147	ug/L #	93
42) Toluene	7.64	91	5318	0.398	ug/L	97
44) trans-1,3-Dichloropropene	7.89	75	1913	0.435	ug/L	96
45) 1,1,2-Trichloroethane	8.08	97	840	0.382	ug/L	93
47) Tetrachloroethene	8.23	164	1081	0.414	ug/L	90
48) 2-Hexanone	8.37	43	8878	4.587	ug/L #	96
49) Dibromochloromethane	8.48	129	957	0.342	ug/L	85
50) 1,2-Dibromoethane	8.59	107	843	0.394	ug/L #	89
51) Chlorobenzene	9.12	112	3225	0.392	ug/L	95
52) Ethylbenzene	9.25	91	6021	0.389	ug/L	94
53) m,p-xylene	9.38	106	2107	0.384	ug/L	91
54) o-xylene	9.78	106	2113	0.394	ug/L	86
55) Styrene	9.79	104	3248	0.358	ug/L	98
56) Isopropylbenzene	10.17	105	5565	0.375	ug/L	97
58) 1,1,2,2-Tetrachloroethane	10.46	83	1043	0.361	ug/L #	79
59) 1,2,3-Trichloropropane	10.50	75	819	0.357	ug/L	95
61) Bromoform	9.96	173	507	0.308	ug/L #	92
62) 1,3-Dichlorobenzene	11.42	146	2639	0.383	ug/L	98
63) 1,4-Dichlorobenzene	11.51	146	2487	0.357	ug/L	94
65) 1,2-Dichlorobenzene	11.88	146	2502	0.386	ug/L	91
66) 1,2-Dibromo-3-chloropropan	12.66	75	128	0.248	ug/L #	13
67) 1,3,5-Trichlorobenzene	12.89	180	2066	0.374	ug/L	92
68) 1,2,4-trichlorobenzene	13.50	180	1622	0.338	ug/L #	95
69) Naphthalene	13.75	128	2269	0.291	ug/L #	93
70) 1,2,3-Trichlorobenzene	13.99	180	1625	0.367	ug/L #	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
MSVOA_U
ClientSampleId :
MDL04

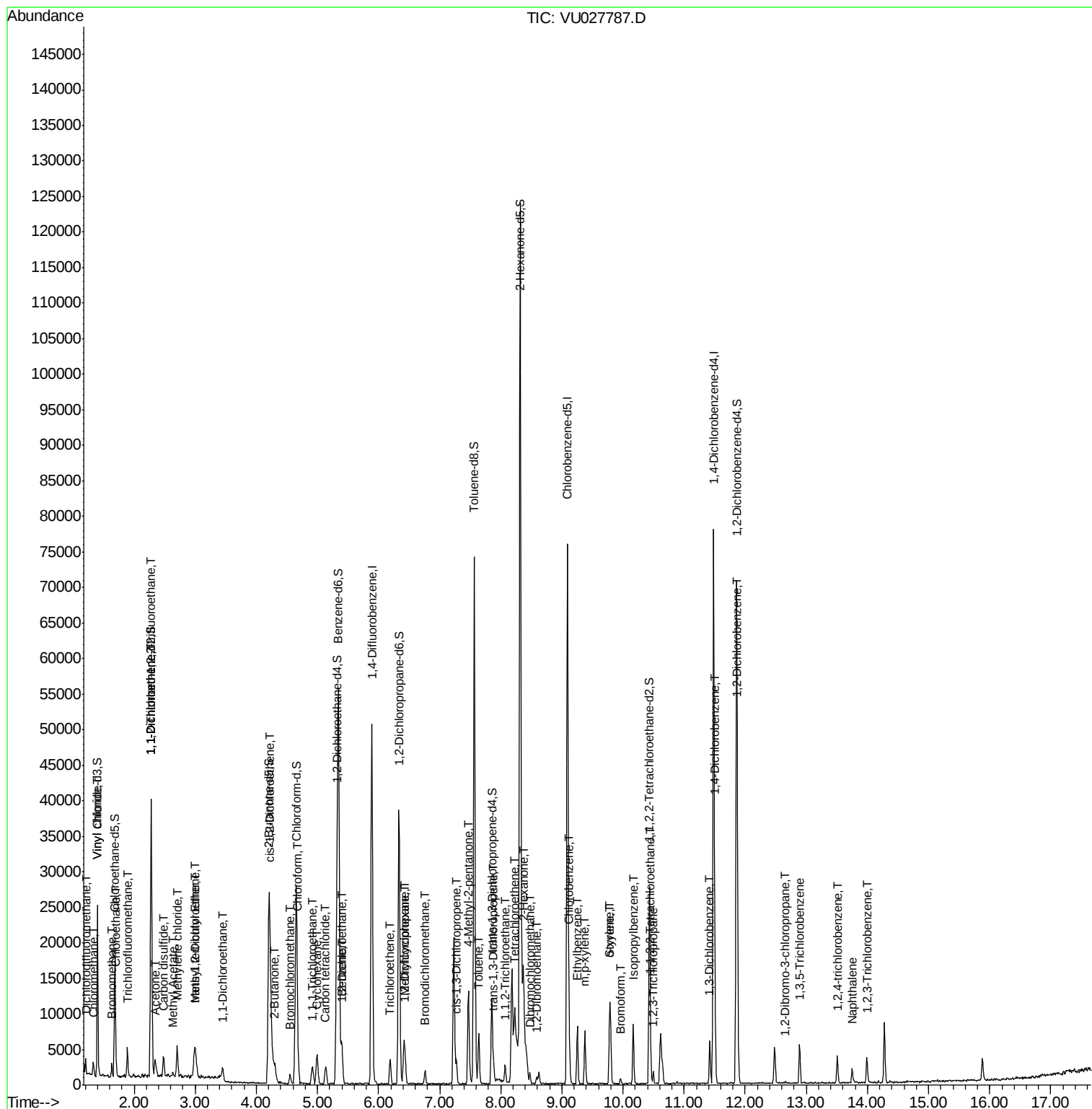
Quant Time: Oct 25 04:42:19 2018

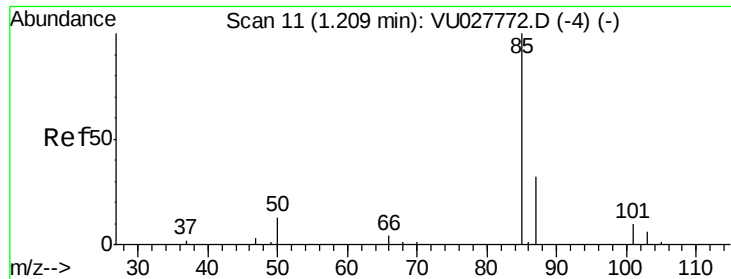
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M

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#2

Dichlorodifluoromethane

Concen: 0.371 ug/L

RT: 1.21 min Scan# 11

Delta R.T. -0.00 min

Lab File: VU027787.D

Acq: 24 Oct 2018 15:48

Instrument :

MSVOA_U

ClientSampleId :

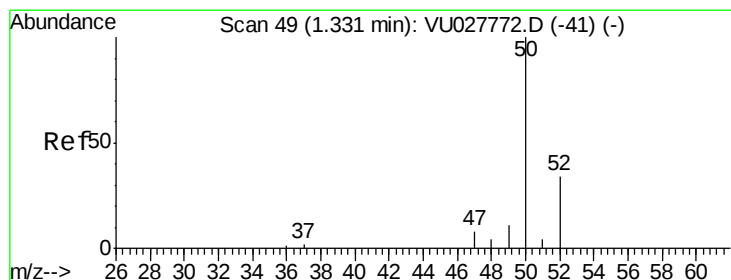
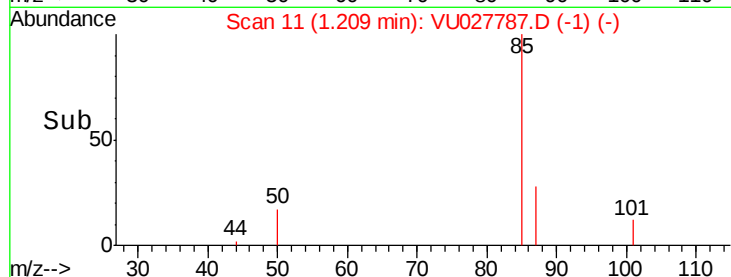
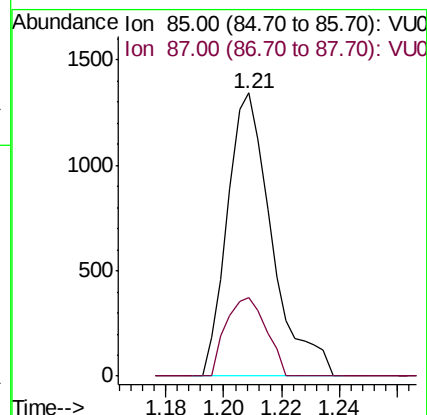
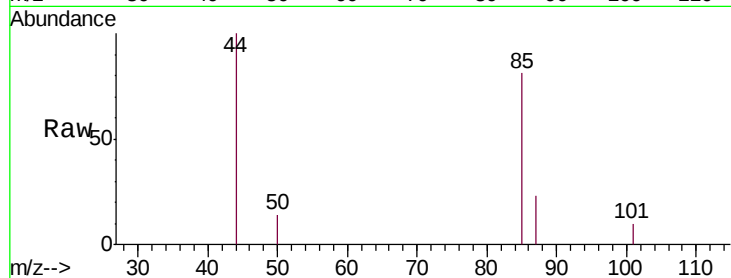
MDL04

Tgt Ion: 85 Resp: 1432

Ion Ratio Lower Upper

85 100

87 25.0 25.4 38.0#



#3

Chloromethane

Concen: 0.386 ug/L

RT: 1.33 min Scan# 50

Delta R.T. 0.00 min

Lab File: VU027787.D

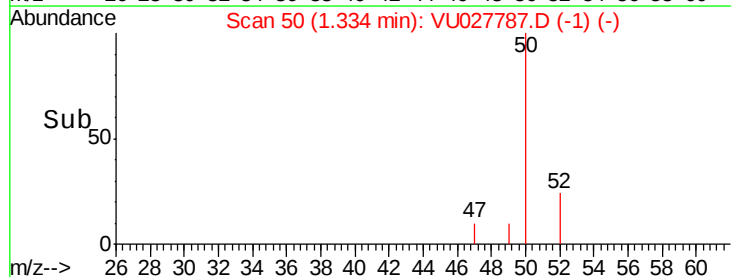
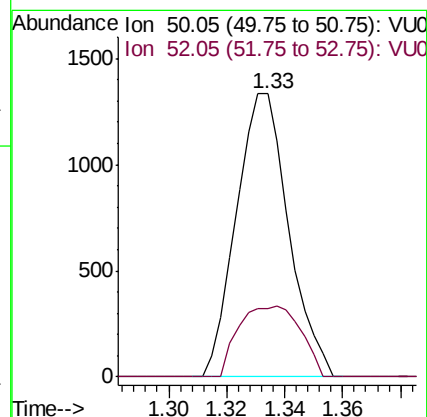
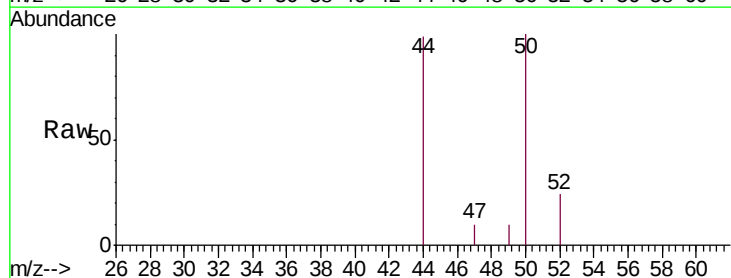
Acq: 24 Oct 2018 15:48

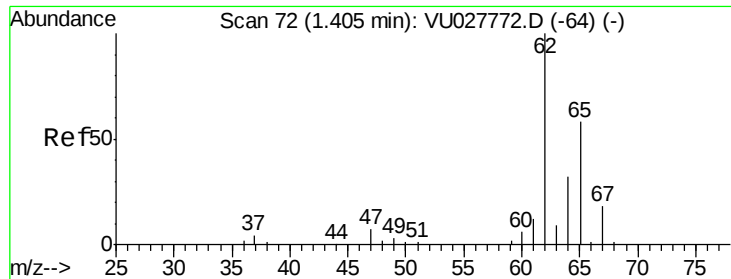
Tgt Ion: 50 Resp: 1673

Ion Ratio Lower Upper

50 100

52 24.3 23.7 43.9





#5

Vinyl chloride

Concen: 0.385 ug/L

RT: 1.40 min Scan# 72

Delta R.T. -0.00 min

Lab File: VU027787.D

Acq: 24 Oct 2018 15:48

Instrument :

MSVOA_U

ClientSampleId :

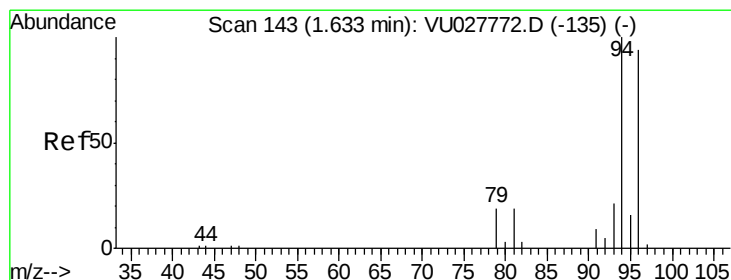
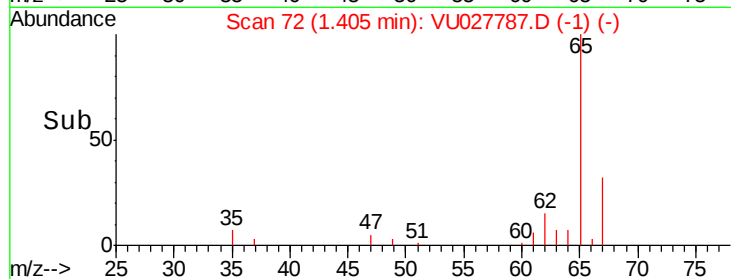
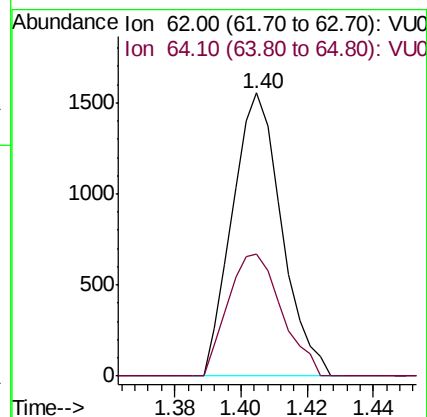
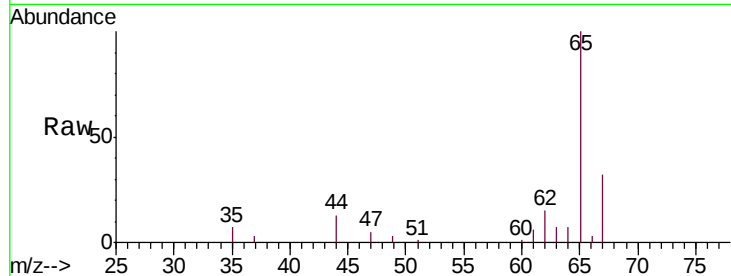
MDL04

Tgt Ion: 62 Resp: 1608

Ion Ratio Lower Upper

62 100

64 43.2 22.7 42.1#



#6

Bromomethane

Concen: 0.429 ug/L

RT: 1.63 min Scan# 143

Delta R.T. -0.00 min

Lab File: VU027787.D

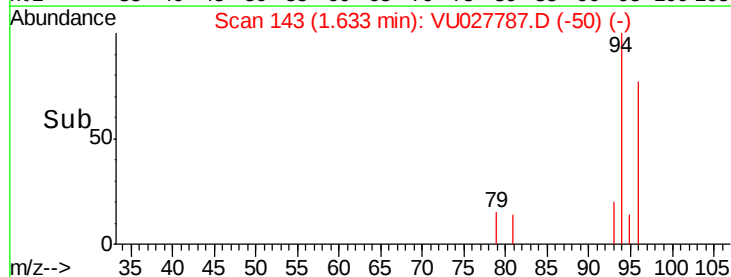
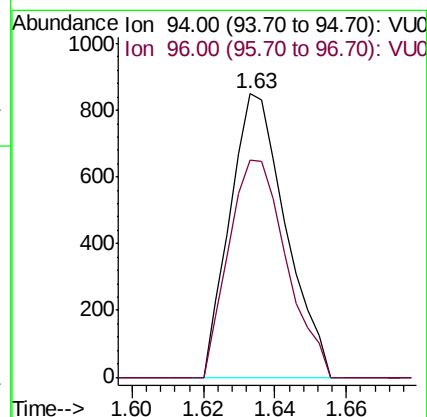
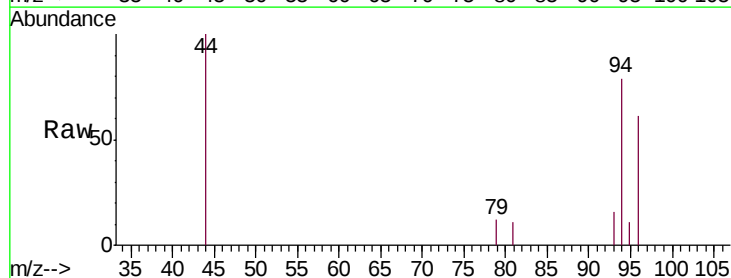
Acq: 24 Oct 2018 15:48

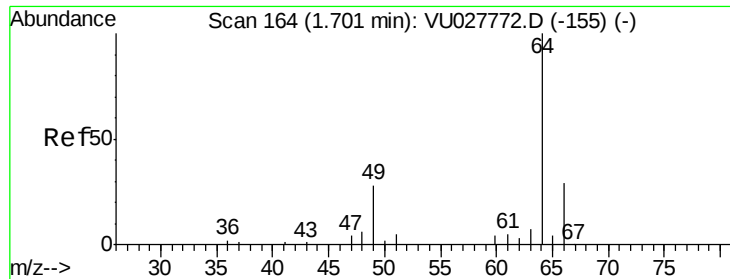
Tgt Ion: 94 Resp: 918

Ion Ratio Lower Upper

94 100

96 76.6 65.5 121.7





#8

Chloroethane

Concen: 0.426 ug/L

RT: 1.70 min Scan# 165

Delta R.T. 0.00 min

Lab File: VU027787.D

Acq: 24 Oct 2018 15:48

Instrument :

MSVOA_U

ClientSampled :

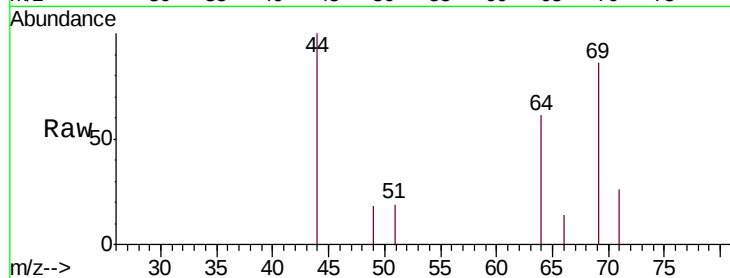
MDL04

Tgt Ion: 64 Resp: 961

Ion Ratio Lower Upper

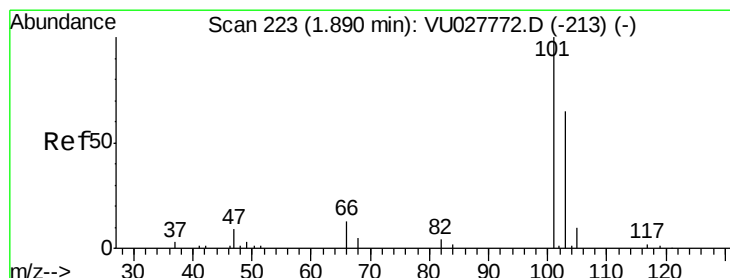
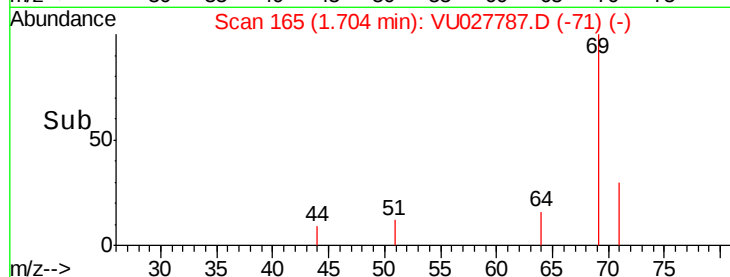
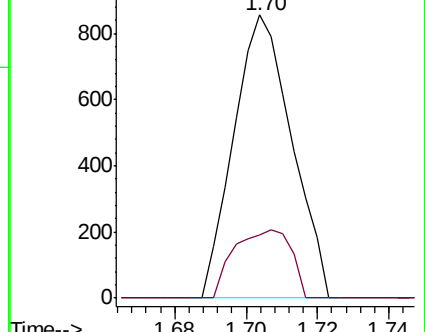
64 100

66 22.1 20.3 37.7



Abundance Ion 64.10 (63.80 to 64.80): VU027772.D (-155) (-)

Ion 66.05 (65.75 to 66.75): VU027787.D (-130) (-)



#9

Trichlorofluoromethane

Concen: 0.404 ug/L

RT: 1.89 min Scan# 224

Delta R.T. 0.00 min

Lab File: VU027787.D

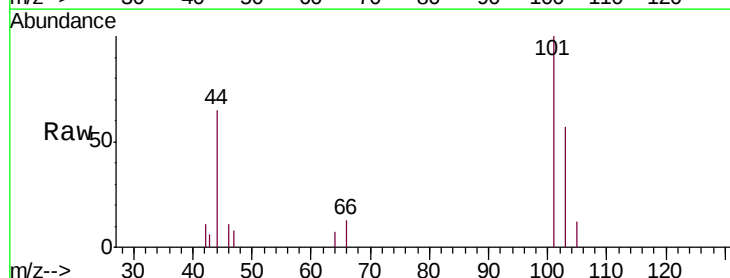
Acq: 24 Oct 2018 15:48

Tgt Ion: 101 Resp: 2231

Ion Ratio Lower Upper

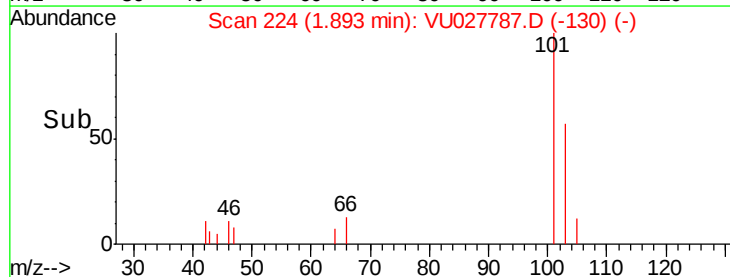
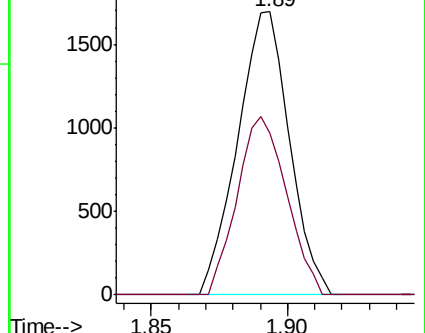
101 100

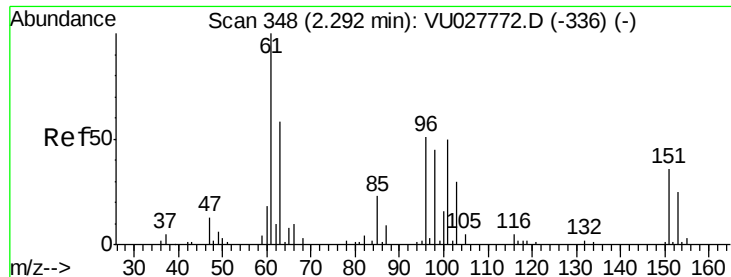
103 60.0 51.0 76.4



Abundance Ion 101.00 (100.70 to 101.70): VU027772.D (-213) (-)

Ion 103.00 (102.70 to 103.70): VU027787.D (-130) (-)





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.468 ug/L

RT: 2.29 min Scan# 347

Delta R.T. -0.00 min

Lab File: VU027787.D

Acq: 24 Oct 2018 15:48

Instrument :

MSVOA_U

ClientSampled :

MDL04

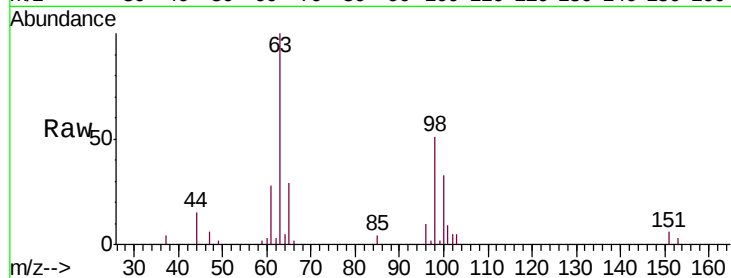
Tgt Ion: 101 Resp: 1304

Ion Ratio Lower Upper

101 100

85 38.3 38.1 57.1

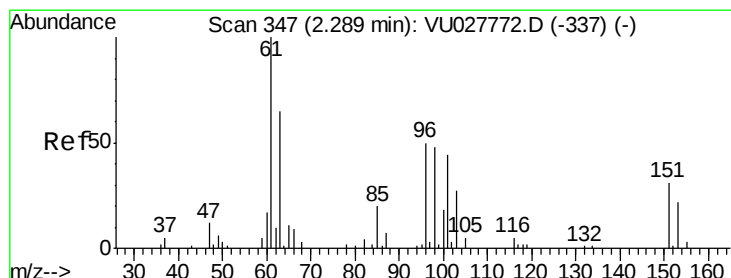
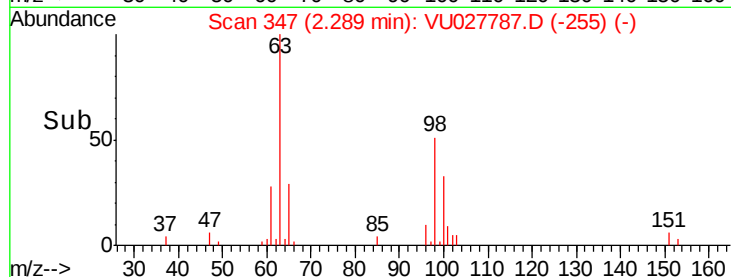
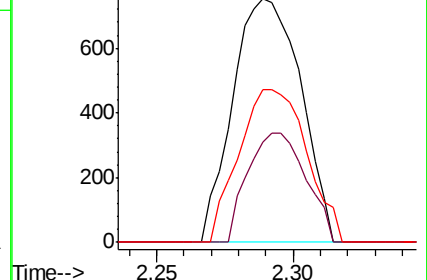
151 62.6 57.0 85.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 0.464 ug/L

RT: 2.29 min Scan# 347

Delta R.T. -0.00 min

Lab File: VU027787.D

Acq: 24 Oct 2018 15:48

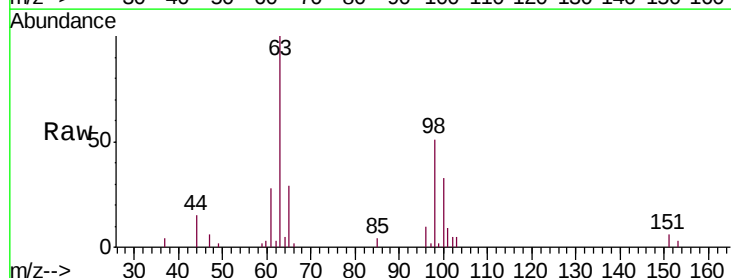
Tgt Ion: 96 Resp: 1205

Ion Ratio Lower Upper

96 100

61 265.9 143.8 267.0

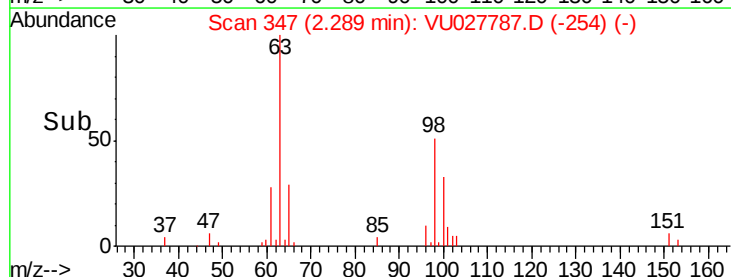
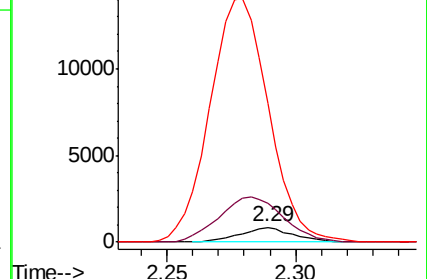
63 953.1 105.1 195.3#

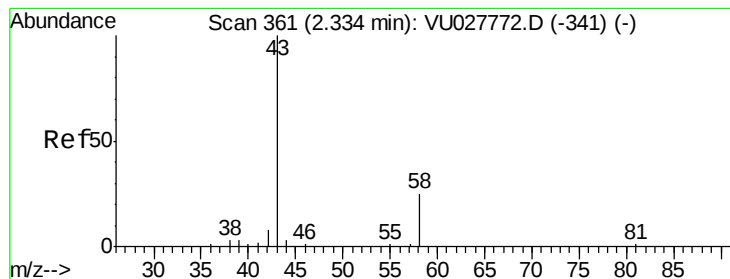


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 4.641 ug/L

RT: 2.35 min Scan# 365

Delta R.T. 0.01 min

Lab File: VU027787.D

Acq: 24 Oct 2018 15:48

Instrument :

MSVOA_U

ClientSampleId :

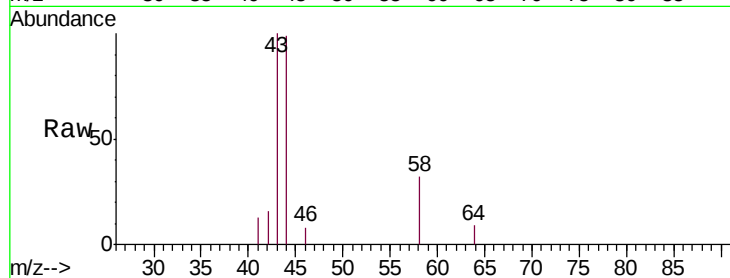
MDL04

Tgt Ion: 43 Resp: 3301

Ion Ratio Lower Upper

43 100

58 21.3 0.0 52.8



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0

1500

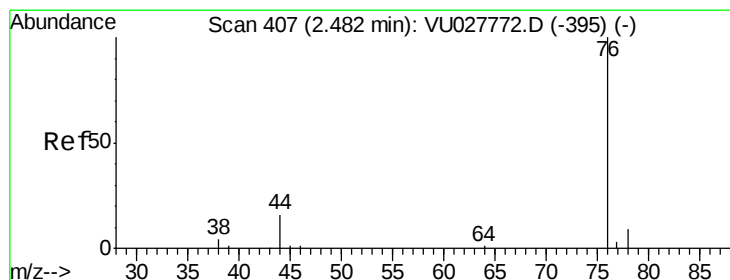
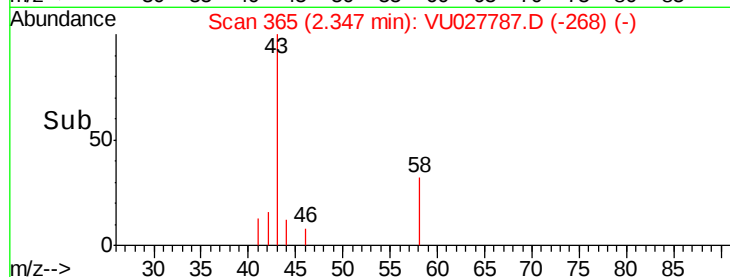
1000

500

0

2.25 2.30 2.35 2.40

Time-->



#14

Carbon disulfide

Concen: 0.365 ug/L

RT: 2.49 min Scan# 408

Delta R.T. 0.00 min

Lab File: VU027787.D

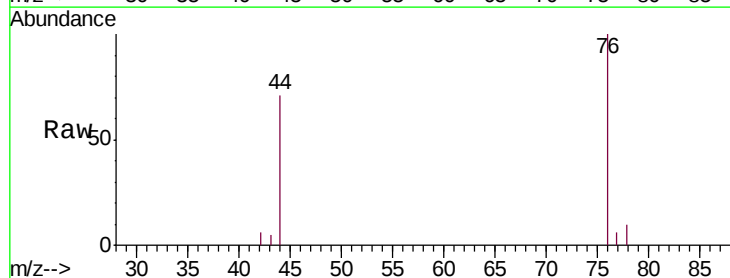
Acq: 24 Oct 2018 15:48

Tgt Ion: 76 Resp: 3254

Ion Ratio Lower Upper

76 100

78 9.9 7.4 11.0



Abundance Ion 76.05 (75.75 to 76.75): VU0

Ion 78.00 (77.70 to 78.70): VU0

2000

1500

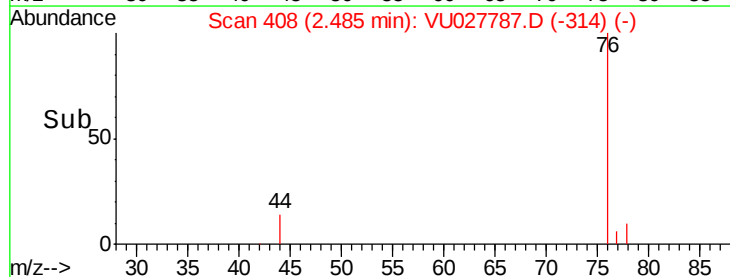
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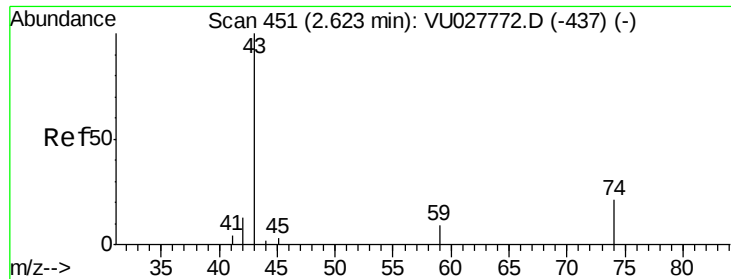
500

0

2.45 2.50

Time-->





#15

Methyl Acetate

Concen: 0.543 ug/L

RT: 2.63 min Scan# 453

Delta R.T. 0.01 min

Lab File: VU027787.D

Acq: 24 Oct 2018 15:48

Instrument :

MSVOA_U

ClientSampled :

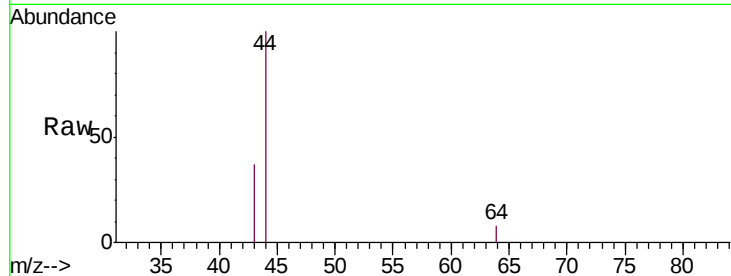
MDL04

Tgt Ion: 43 Resp: 1081

Ion Ratio Lower Upper

43 100

74 0.0 15.8 23.8#



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 74.05 (73.75 to 74.75): VU0

2.63

500

400

300

200

100

0

Time--> 2.55

2.60

2.65

2.70

2.75

2.80

2.85

2.90

2.95

3.00

3.05

3.10

3.15

3.20

3.25

3.30

3.40

3.50

3.60

3.70

3.80

3.90

4.00

4.05

4.10

4.15

4.20

4.25

4.30

4.35

4.40

4.45

4.50

4.55

4.60

4.65

4.70

4.75

4.80

4.85

4.90

4.95

5.00

5.05

5.10

5.15

5.20

5.25

5.30

5.35

5.40

5.45

5.50

5.55

5.60

5.65

5.70

5.75

5.80

5.85

5.90

5.95

6.00

6.05

6.10

6.15

6.20

6.25

6.30

6.35

6.40

6.45

6.50

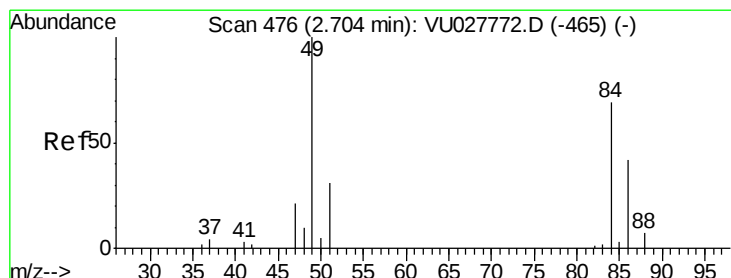
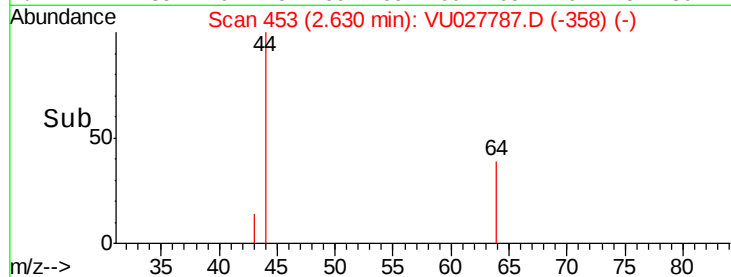
6.55

6.60

6.65

6.70

6.75



#16

Methylene chloride

Concen: 0.536 ug/L

RT: 2.71 min Scan# 477

Delta R.T. 0.00 min

Lab File: VU027787.D

Acq: 24 Oct 2018 15:48

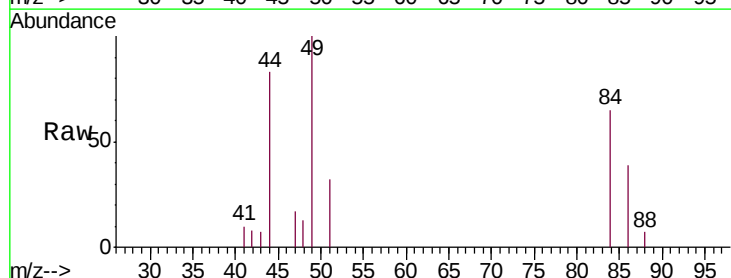
Tgt Ion: 84 Resp: 1639

Ion Ratio Lower Upper

84 100

86 60.4 42.8 79.4

49 152.9 101.4 188.4



Abundance Ion 84.05 (83.75 to 84.75): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.10 (48.80 to 49.80): VU0

2000

1500

1000

500

0

Time--> 2.65

2.70

2.75

2.80

2.85

2.90

2.95

3.00

3.05

3.10

3.15

3.20

3.25

3.30

3.35

3.40

3.45

3.50

3.55

3.60

3.65

3.70

3.75

3.80

3.85

3.90

3.95

4.00

4.05

4.10

4.15

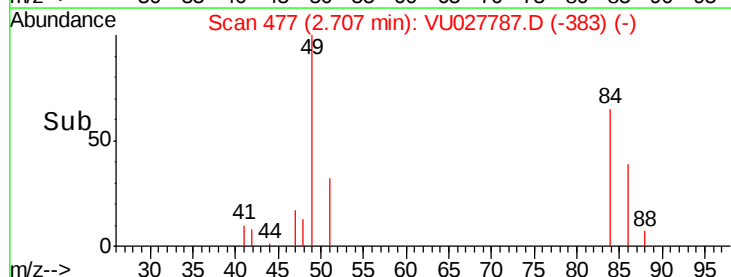
4.20

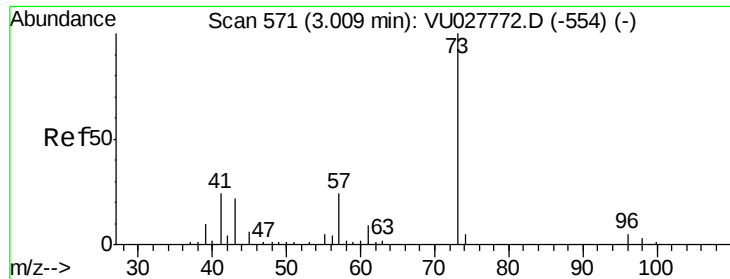
4.25

4.30

4.35

4.40

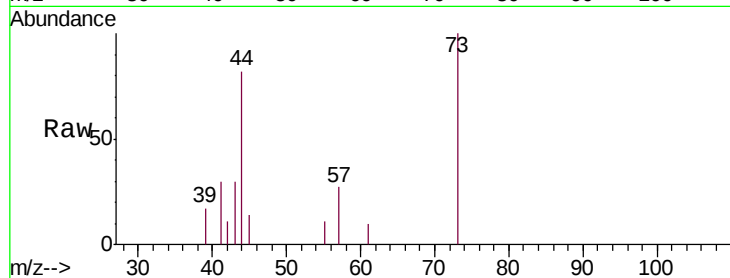




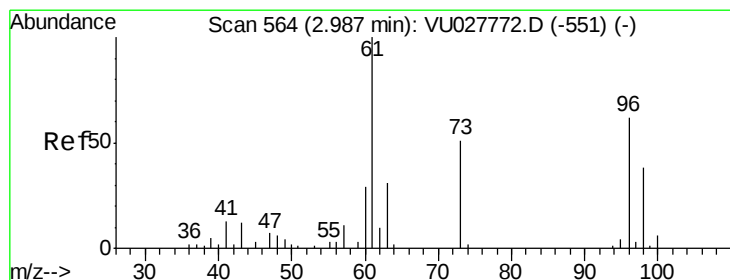
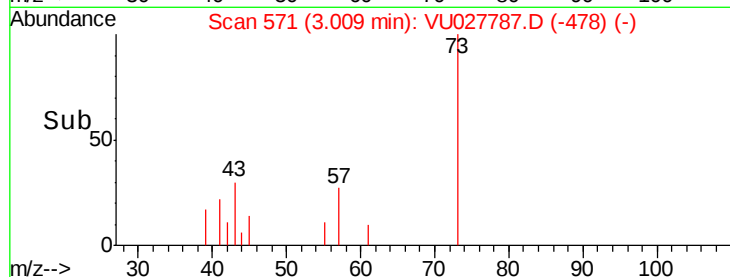
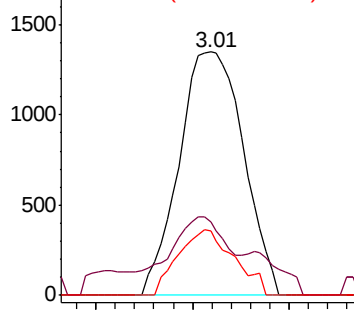
#17
Methyl tert-butyl Ether
Concen: 0.375 ug/L
RT: 3.01 min Scan# 571
Delta R.T. -0.00 min
Lab File: VU027787.D
Acq: 24 Oct 2018 15:48

Instrument :
MSVOA_U
ClientSampled :
MDL04

Tgt Ion: 73 Resp: 3117
Ion Ratio Lower Upper
73 100
43 16.5 18.6 28.0#
57 23.5 18.2 27.2

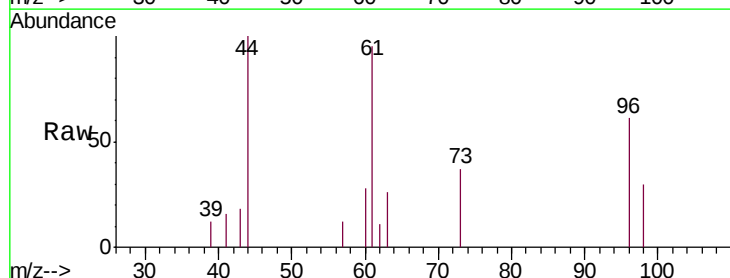


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

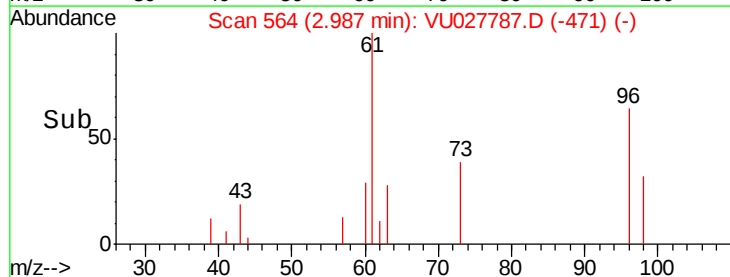
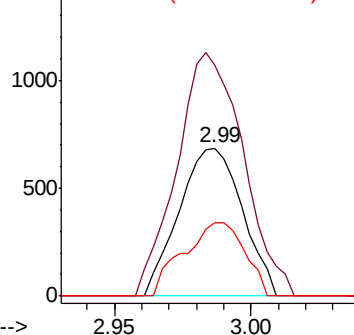


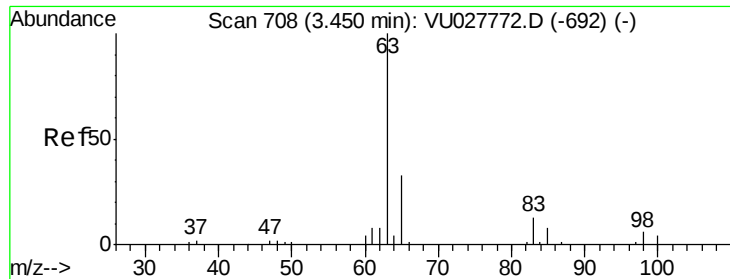
#18
trans-1,2-Dichloroethene
Concen: 0.397 ug/L
RT: 2.99 min Scan# 564
Delta R.T. -0.00 min
Lab File: VU027787.D
Acq: 24 Oct 2018 15:48

Tgt Ion: 96 Resp: 1104
Ion Ratio Lower Upper
96 100
61 156.1 112.1 208.3
98 50.0 42.1 78.3



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 97.95 (97.65 to 98.65): VU0

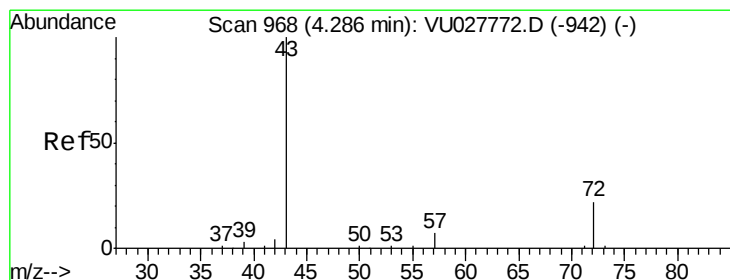
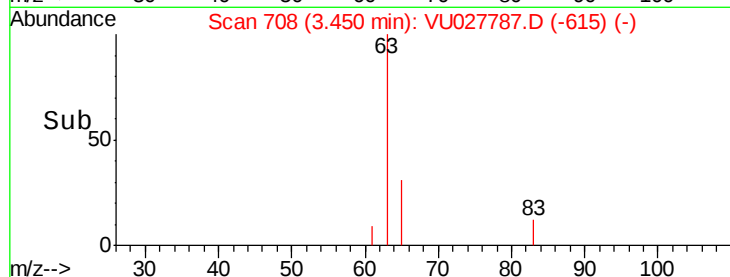
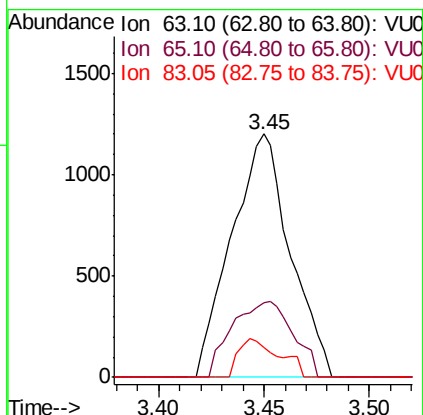
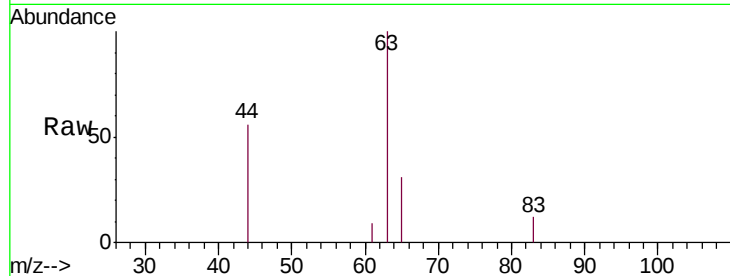




#19
 1,1-Dichloroethane
 Concen: 0.378 ug/L
 RT: 3.45 min Scan# 708
 Delta R.T. -0.00 min
 Lab File: VU027787.D
 Acq: 24 Oct 2018 15:48

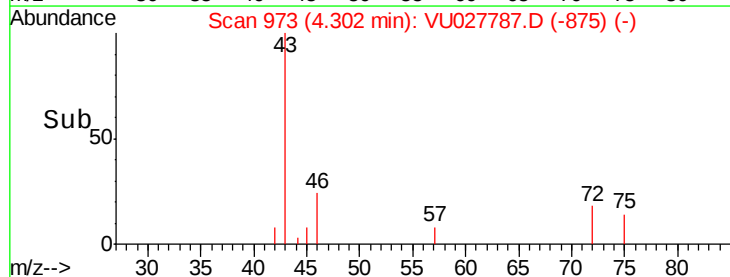
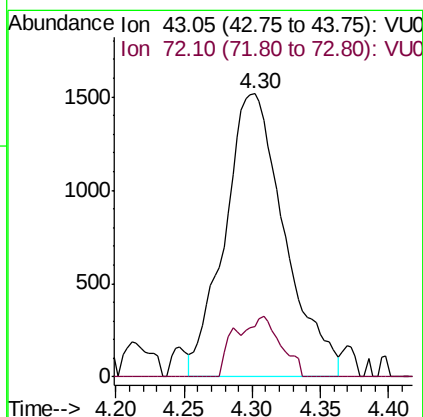
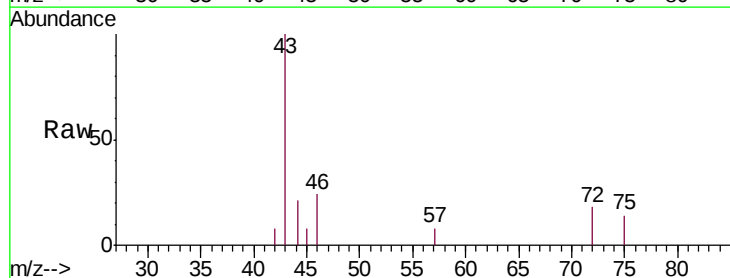
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

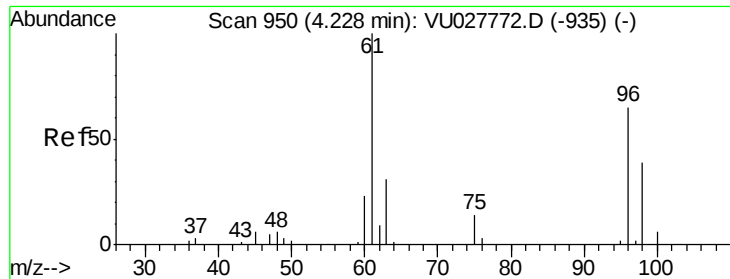
Tgt Ion: 63 Resp: 2321
 Ion Ratio Lower Upper
 63 100
 65 30.8 23.1 42.9
 83 12.4 9.2 17.0



#21
 2-Butanone
 Concen: 3.967 ug/L
 RT: 4.30 min Scan# 973
 Delta R.T. 0.02 min
 Lab File: VU027787.D
 Acq: 24 Oct 2018 15:48

Tgt Ion: 43 Resp: 4629
 Ion Ratio Lower Upper
 43 100
 72 11.7 10.5 31.6



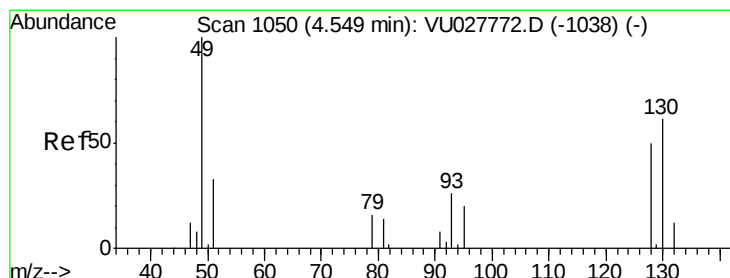
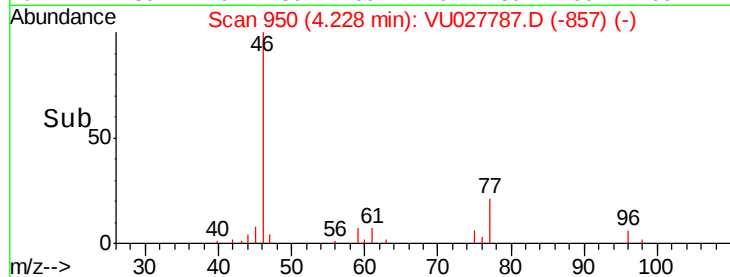
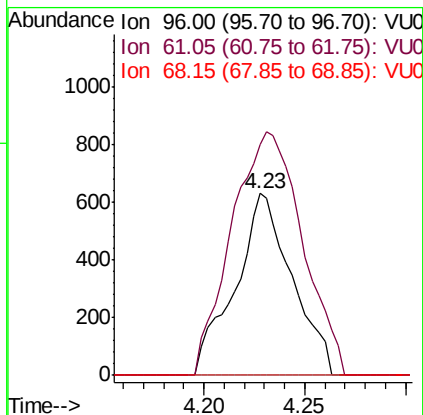
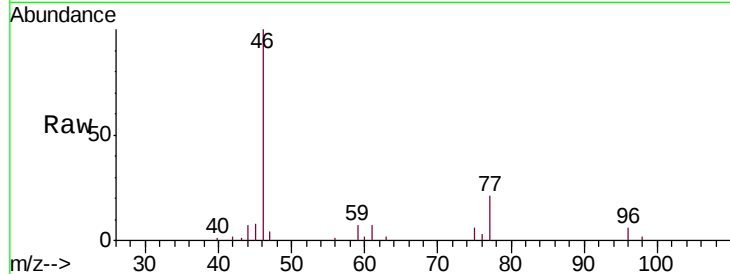


#22

cis-1,2-Dichloroethene
 Concen: 0.374 ug/L
 RT: 4.23 min Scan# 950
 Delta R.T. -0.00 min
 Lab File: VU027787.D
 Acq: 24 Oct 2018 15:48

Instrument :
 MSVOA_U
 ClientSampled :
 MDL04

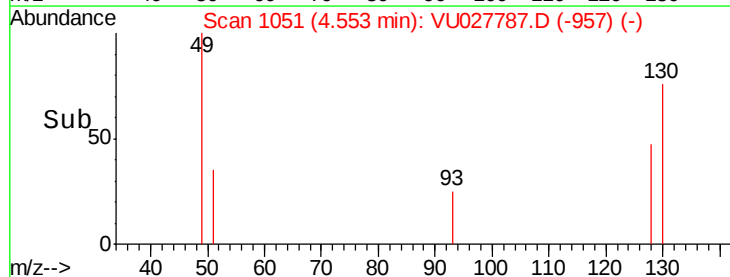
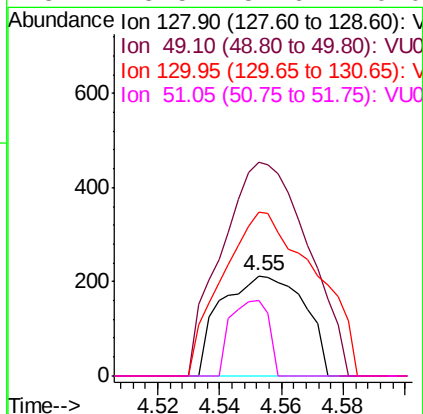
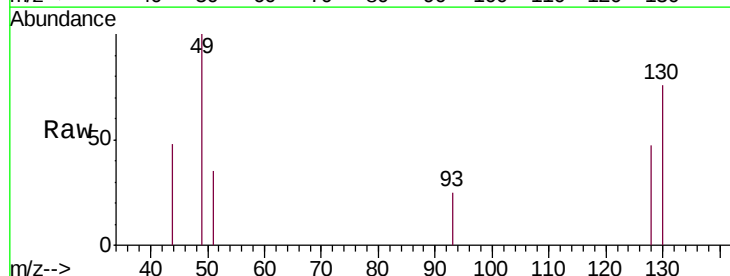
Tgt Ion: 96 Resp: 1236
 Ion Ratio Lower Upper
 96 100
 61 126.9 107.2 199.0
 68 0.0 0.0 0.0

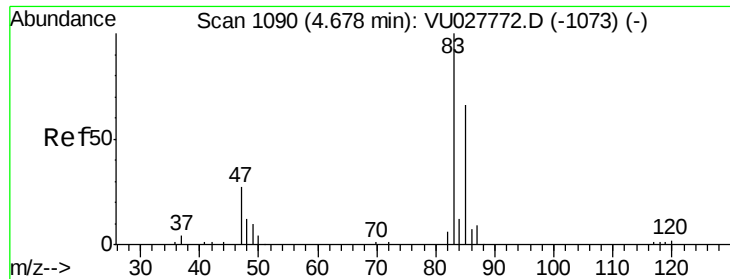


#23

Bromochloromethane
 Concen: 0.297 ug/L
 RT: 4.55 min Scan# 1051
 Delta R.T. 0.00 min
 Lab File: VU027787.D
 Acq: 24 Oct 2018 15:48

Tgt Ion: 128 Resp: 397
 Ion Ratio Lower Upper
 128 100
 49 214.2 142.8 265.2
 130 163.7 86.0 159.8#
 51 75.5 52.6 79.0

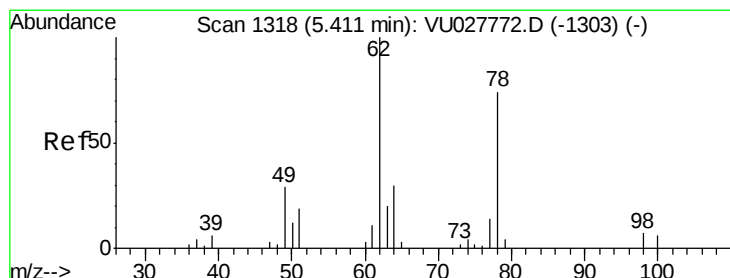
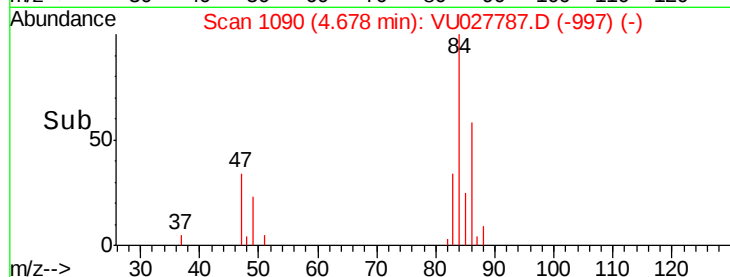
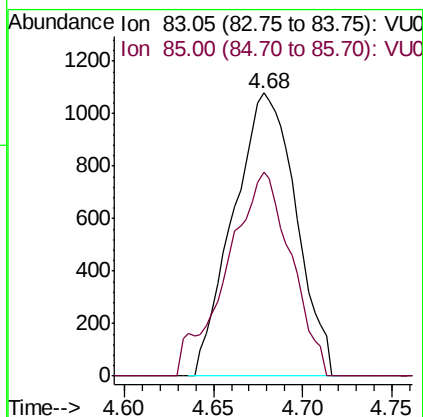
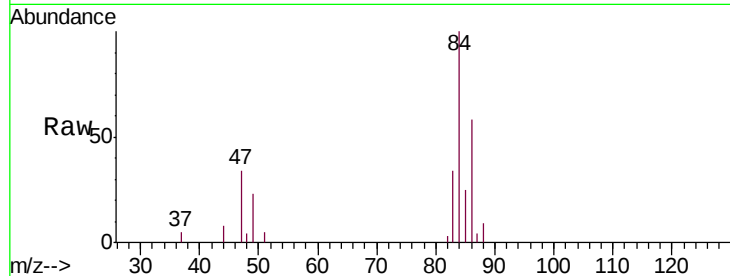




#25
Chloroform
Concen: 0.427 ug/L
RT: 4.68 min Scan# 1090
Delta R.T. -0.00 min
Lab File: VU027787.D
Acq: 24 Oct 2018 15:48

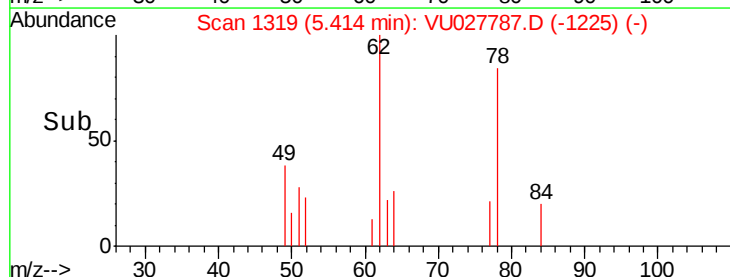
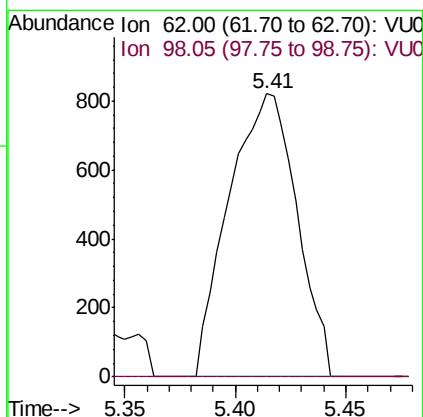
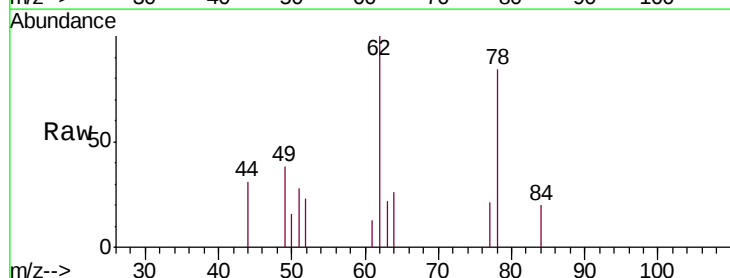
Instrument :
MSVOA_U
ClientSampleId :
MDL04

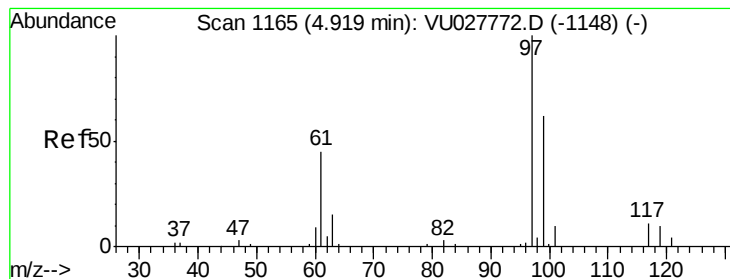
Tgt Ion: 83 Resp: 2645
Ion Ratio Lower Upper
83 100
85 72.0 45.8 85.2



#27
1,2-Dichloroethane
Concen: 0.383 ug/L
RT: 5.41 min Scan# 1319
Delta R.T. 0.00 min
Lab File: VU027787.D
Acq: 24 Oct 2018 15:48

Tgt Ion: 62 Resp: 1750
Ion Ratio Lower Upper
62 100
98 0.0 5.7 8.5#





#29

1,1,1-Trichloroethane

Concen: 0.392 ug/L

RT: 4.92 min Scan# 1165

Delta R.T. -0.00 min

Lab File: VU027787.D

Acq: 24 Oct 2018 15:48

Instrument :

MSVOA_U

ClientSampled :

MDL04

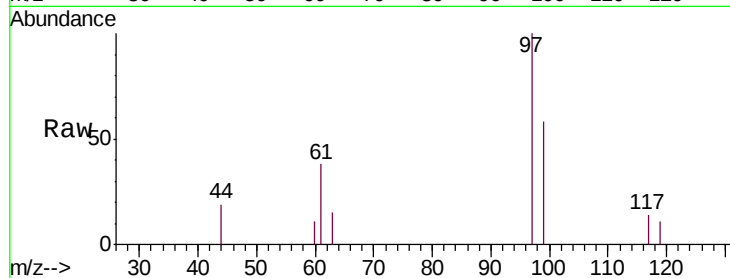
Tgt Ion: 97 Resp: 2104

Ion Ratio Lower Upper

97 100

99 62.4 51.3 76.9

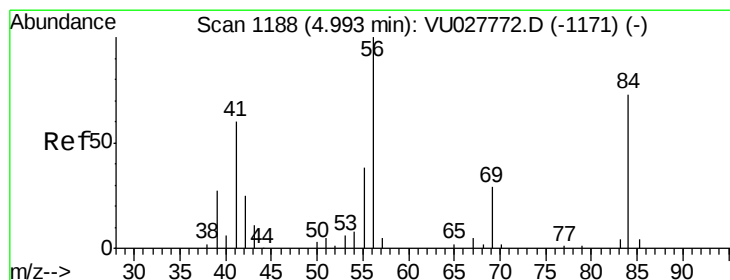
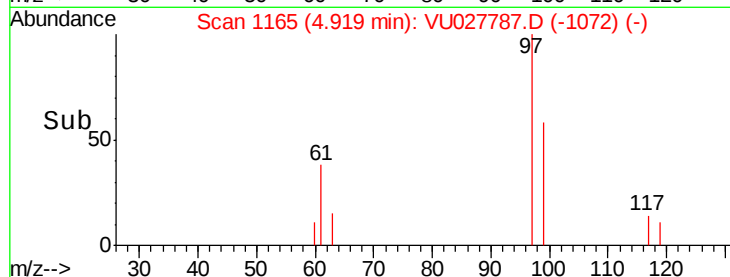
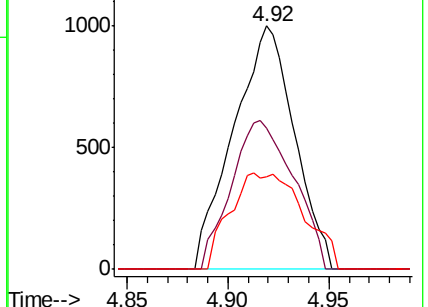
61 47.3 36.7 55.1



Abundance Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

Ion 61.05 (60.75 to 61.75): VU0



#30

Cyclohexane

Concen: 0.379 ug/L

RT: 4.99 min Scan# 1188

Delta R.T. -0.00 min

Lab File: VU027787.D

Acq: 24 Oct 2018 15:48

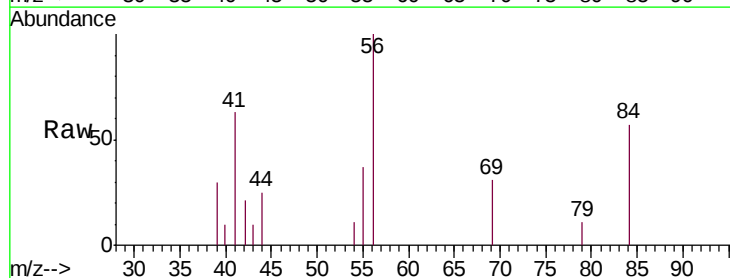
Tgt Ion: 56 Resp: 2279

Ion Ratio Lower Upper

56 100

69 28.7 22.2 33.4

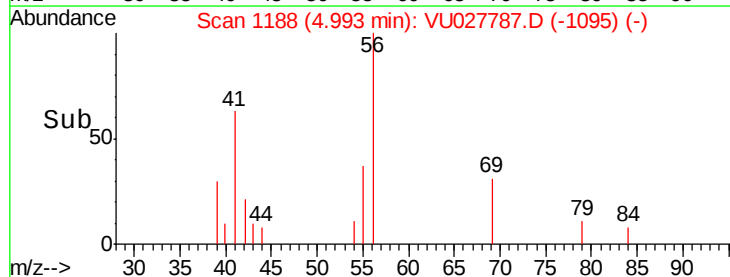
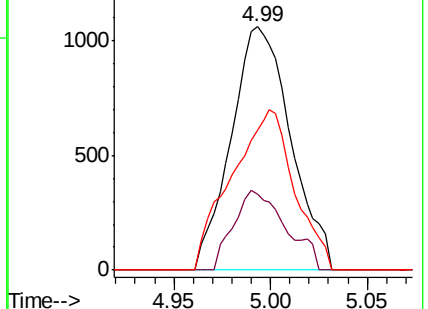
84 69.5 58.6 88.0

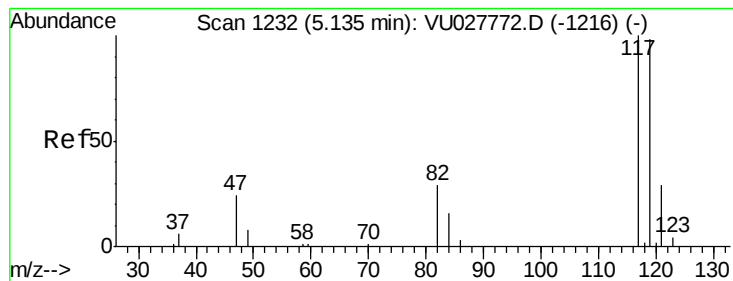


Abundance Ion 56.10 (55.80 to 56.80): VU0

Ion 69.15 (68.85 to 69.85): VU0

Ion 84.15 (83.85 to 84.85): VU0





#31

Carbon tetrachloride

Concen: 0.361 ug/L

RT: 5.13 min Scan# 1231

Delta R.T. -0.00 min

Lab File: VU027787.D

Acq: 24 Oct 2018 15:48

Instrument :

MSVOA_U

ClientSampleId :

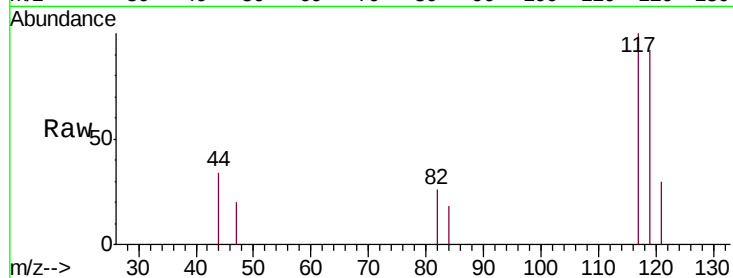
MDL04

Tgt Ion:117 Resp: 1663

Ion Ratio Lower Upper

117 100

119 104.5 77.0 115.6



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V

800

600

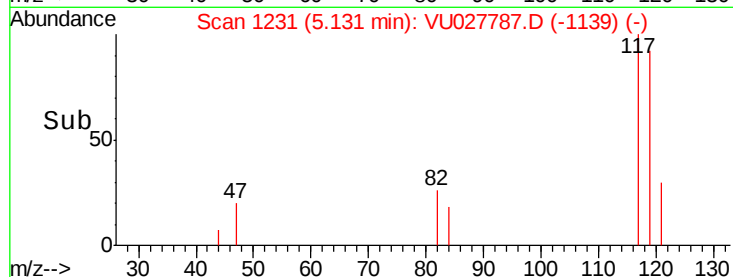
400

200

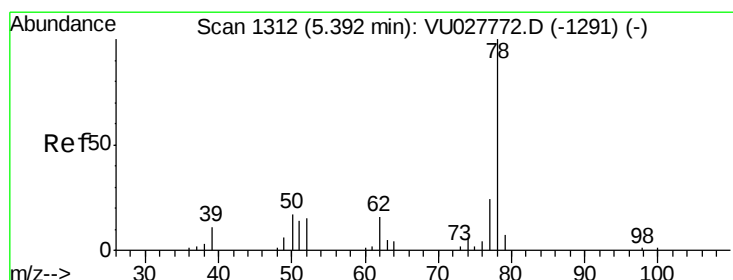
0

5.10 5.15

5.13



Time-->



#33

Benzene

Concen: 0.386 ug/L

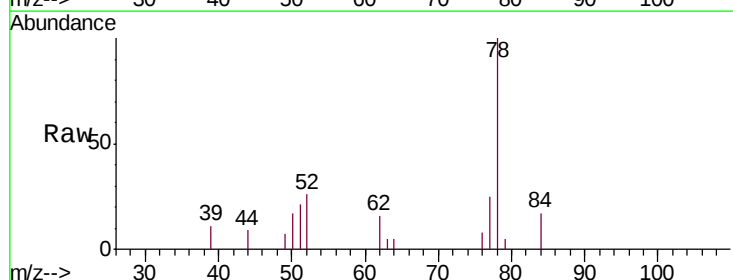
RT: 5.39 min Scan# 1312

Delta R.T. -0.00 min

Lab File: VU027787.D

Acq: 24 Oct 2018 15:48

Tgt Ion: 78 Resp: 4786



Abundance Ion 78.10 (77.80 to 78.80): VU0

2500

2000

1500

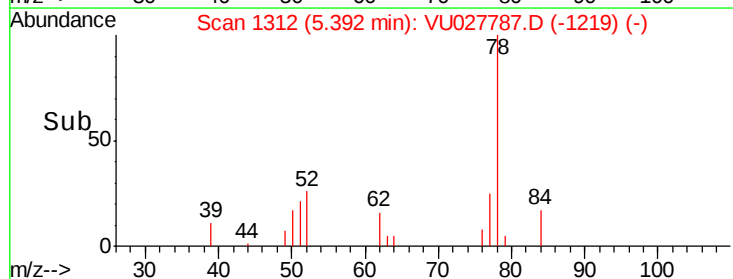
1000

500

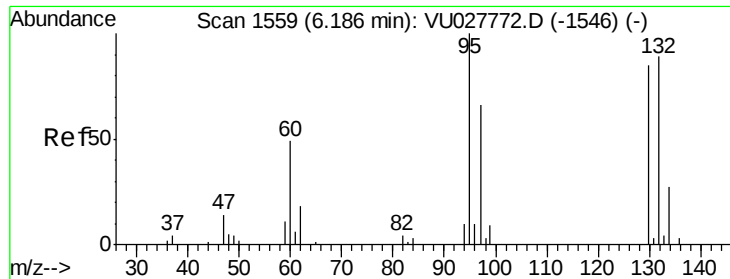
0

5.35 5.40 5.45

5.39



Time-->



#34

Trichloroethene

Concen: 0.409 ug/L

RT: 6.19 min Scan# 1559

Delta R.T. -0.00 min

Lab File: VU027787.D

Acq: 24 Oct 2018 15:48

Instrument :

MSVOA_U

ClientSampleId :

MDL04

Tgt Ion: 95 Resp: 1316

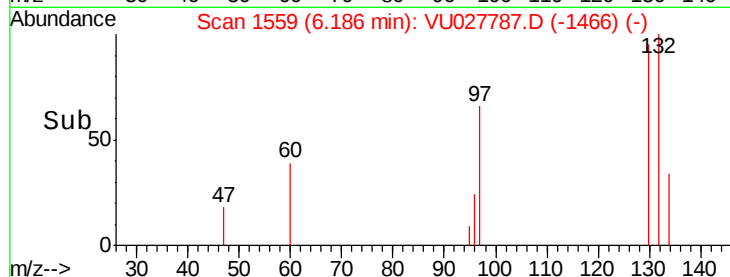
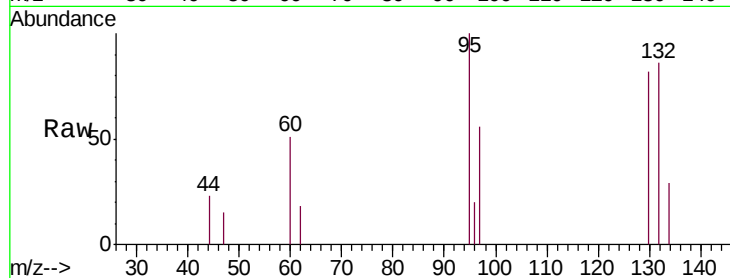
Ion Ratio Lower Upper

95 100

97 56.3 46.4 86.2

132 85.7 62.0 115.2

130 81.8 59.5 110.5

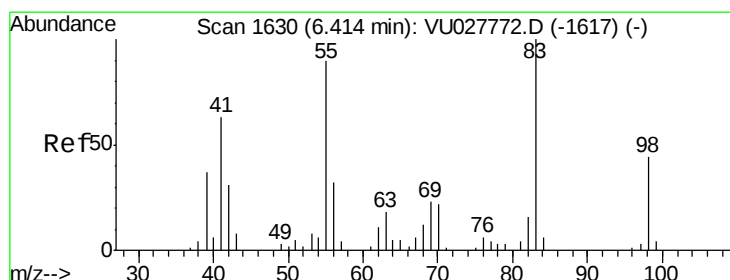
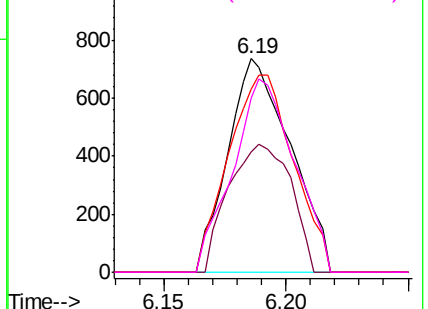


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 0.411 ug/L

RT: 6.42 min Scan# 1631

Delta R.T. 0.00 min

Lab File: VU027787.D

Acq: 24 Oct 2018 15:48

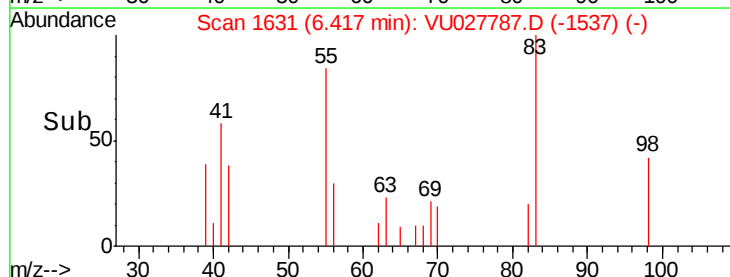
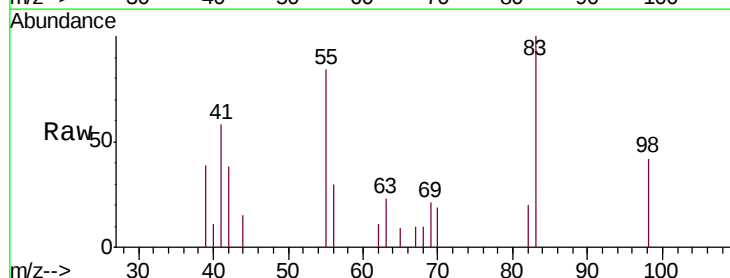
Tgt Ion: 83 Resp: 2210

Ion Ratio Lower Upper

83 100

55 92.1 71.5 107.3

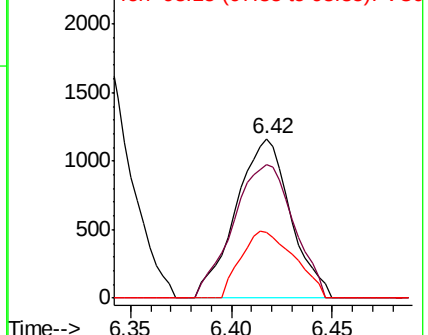
98 41.1 35.4 53.0

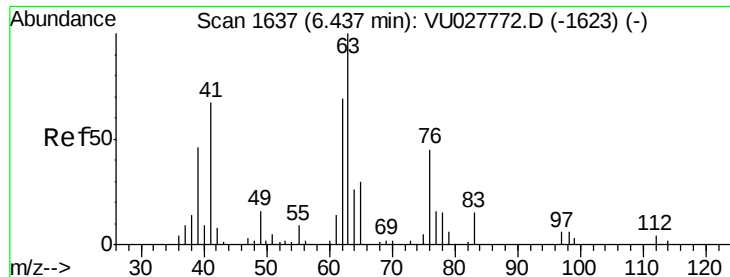


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

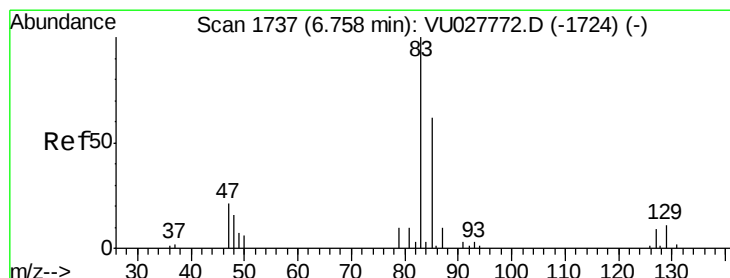
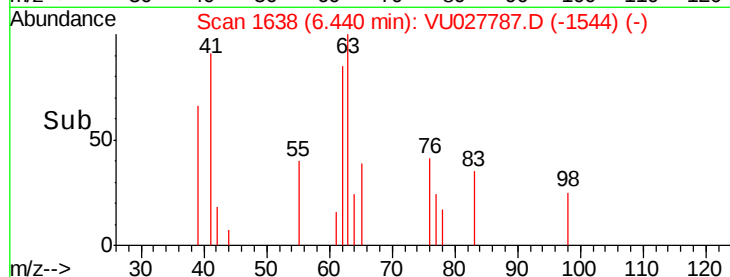
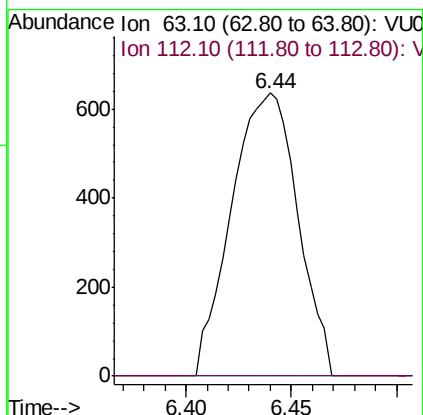
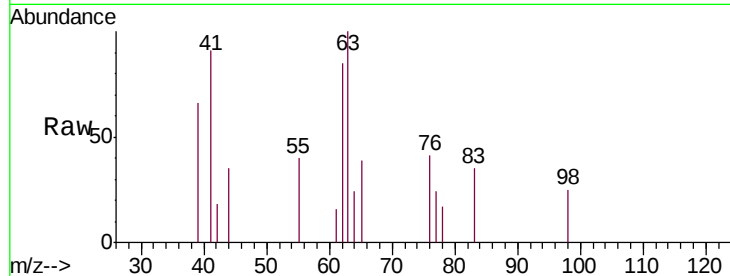




#37
 1,2-Dichloropropane
 Concen: 0.381 ug/L
 RT: 6.44 min Scan# 1638
 Delta R.T. 0.00 min
 Lab File: VU027787.D
 Acq: 24 Oct 2018 15:48

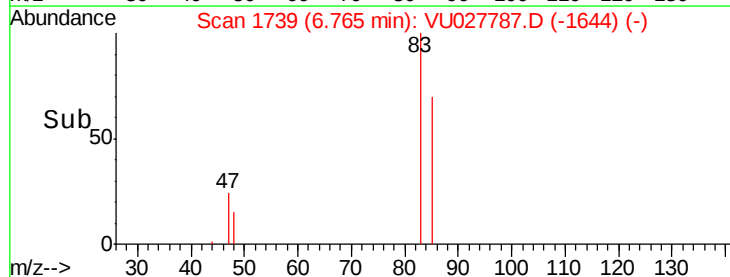
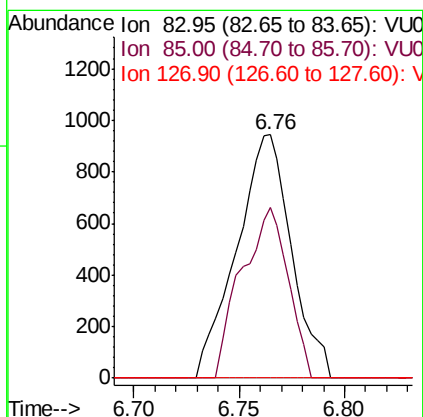
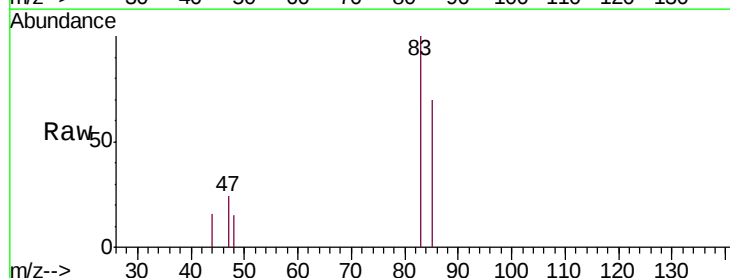
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

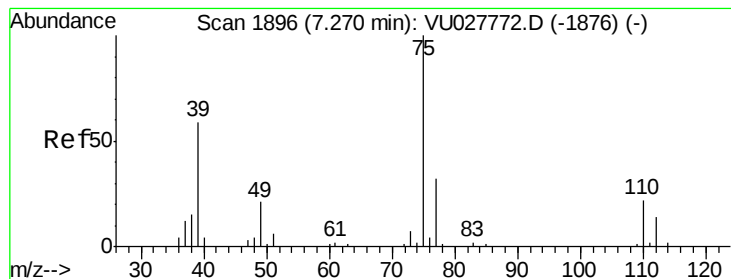
Tgt Ion: 63 Resp: 1387
 Ion Ratio Lower Upper
 63 100
 112 0.0 2.7 4.1#



#38
 Bromodichloromethane
 Concen: 0.393 ug/L
 RT: 6.76 min Scan# 1739
 Delta R.T. 0.01 min
 Lab File: VU027787.D
 Acq: 24 Oct 2018 15:48

Tgt Ion: 83 Resp: 1708
 Ion Ratio Lower Upper
 83 100
 85 69.9 43.3 80.5
 127 0.0 7.2 10.8#





#39

cis-1,3-Dichloropropene

Concen: 0.385 ug/L

RT: 7.28 min Scan# 1898

Delta R.T. 0.01 min

Lab File: VU027787.D

Acq: 24 Oct 2018 15:48

Instrument :

MSVOA_U

ClientSampled :

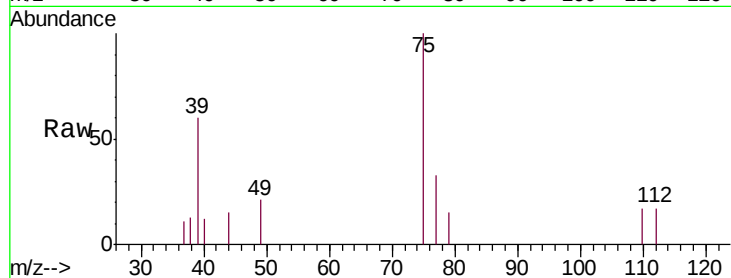
MDL04

Tgt Ion: 75 Resp: 2008

Ion Ratio Lower Upper

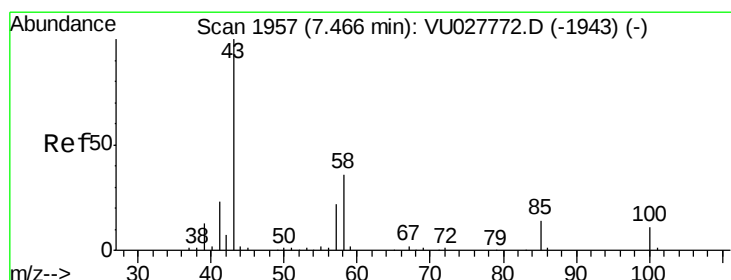
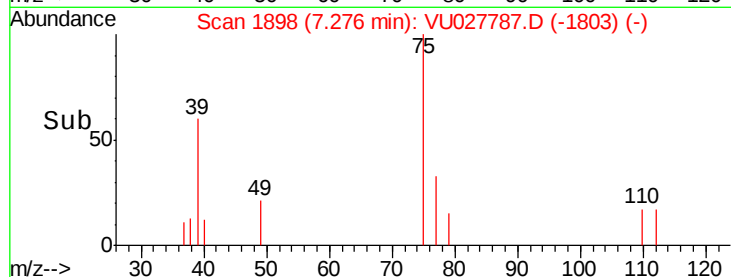
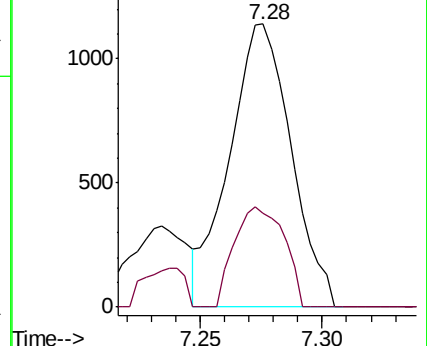
75 100

77 33.3 22.5 41.7



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0



#40

4-Methyl-2-pentanone

Concen: 4.147 ug/L

RT: 7.47 min Scan# 1958

Delta R.T. 0.00 min

Lab File: VU027787.D

Acq: 24 Oct 2018 15:48

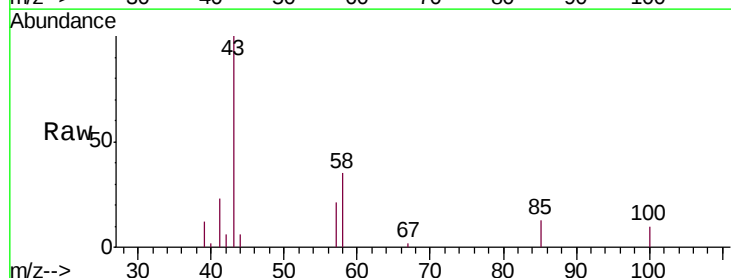
Tgt Ion: 43 Resp: 11295

Ion Ratio Lower Upper

43 100

58 30.9 28.1 42.1

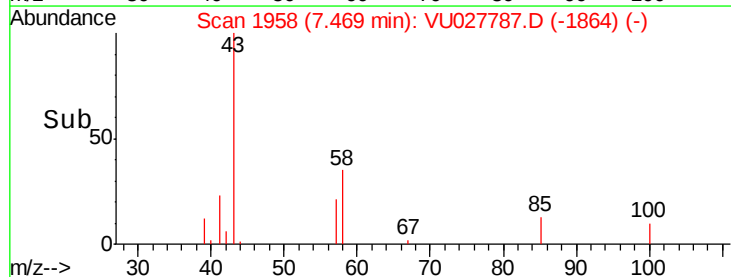
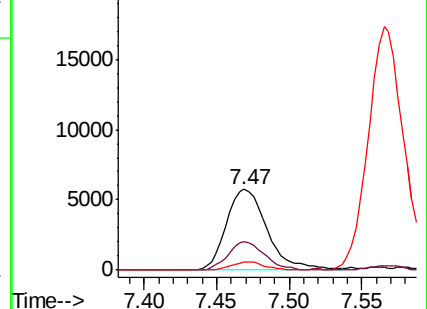
100 8.4 8.7 13.1#

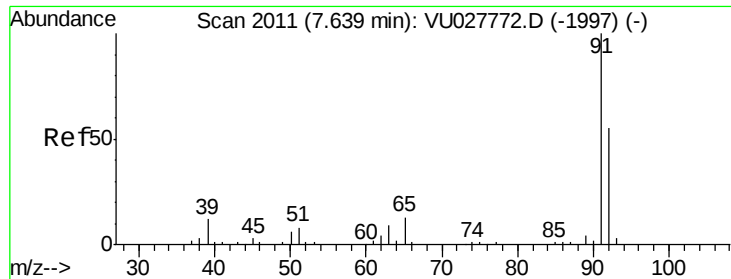


Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0

Ion 100.15 (99.85 to 100.85): VU0





#42

Toluene

Concen: 0.398 ug/L

RT: 7.64 min Scan# 2011

Delta R.T. -0.00 min

Lab File: VU027787.D

Acq: 24 Oct 2018 15:48

Instrument :

MSVOA_U

ClientSampleId :

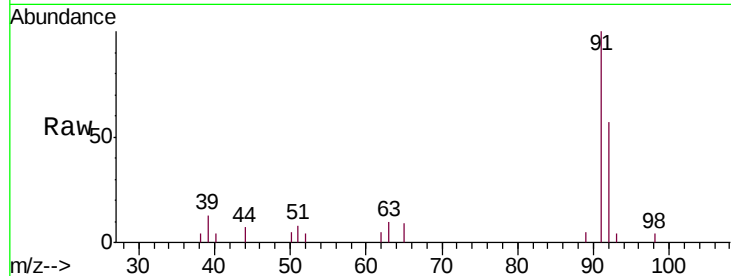
MDL04

Tgt Ion: 91 Resp: 5318

Ion Ratio Lower Upper

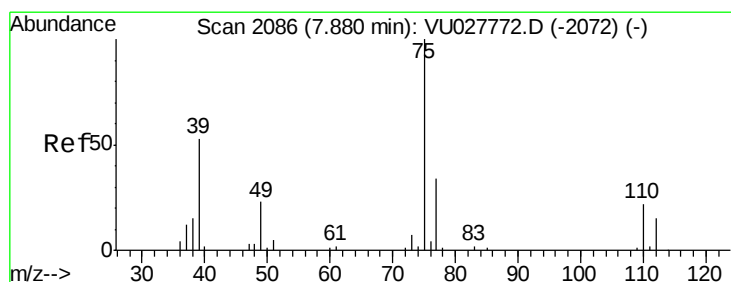
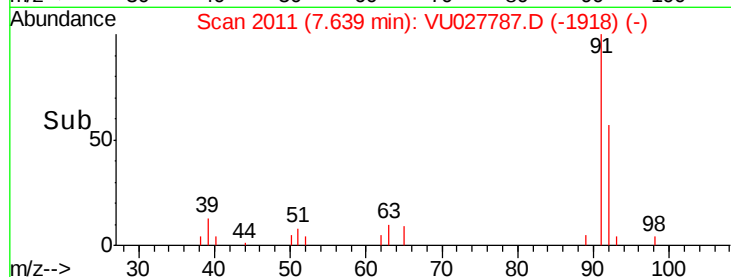
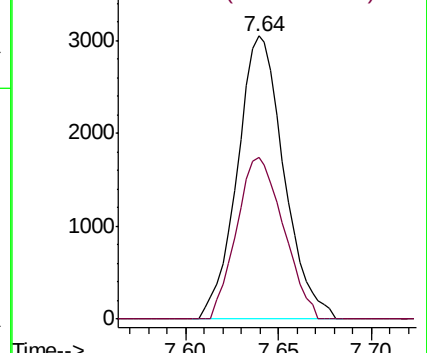
91 100

92 57.3 38.6 71.8



Abundance Ion 91.15 (90.85 to 91.85): VU0

Ion 92.15 (91.85 to 92.85): VU0



#44

trans-1,3-Dichloropropene

Concen: 0.435 ug/L

RT: 7.89 min Scan# 2088

Delta R.T. 0.01 min

Lab File: VU027787.D

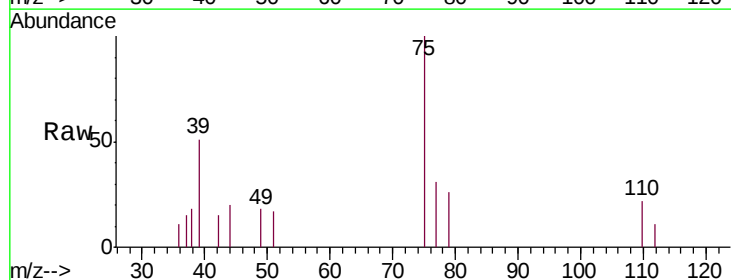
Acq: 24 Oct 2018 15:48

Tgt Ion: 75 Resp: 1913

Ion Ratio Lower Upper

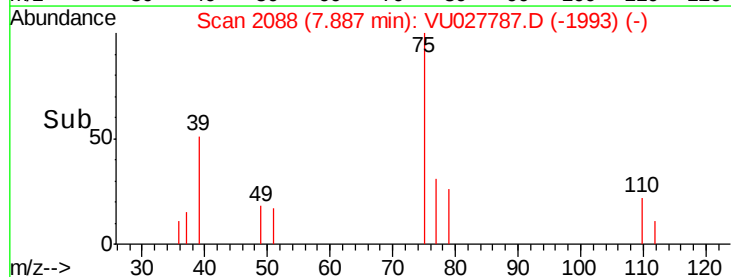
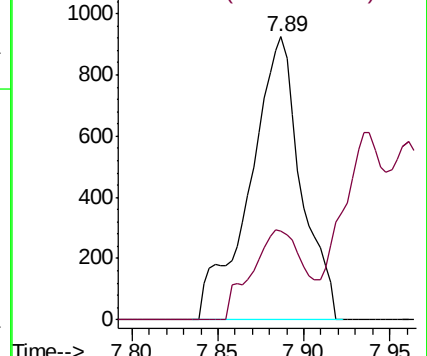
75 100

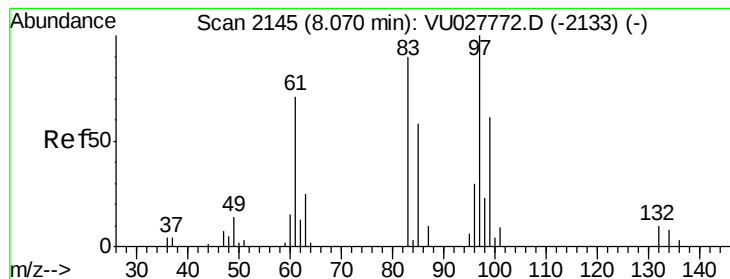
77 31.2 23.5 43.7



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0





#45

1,1,2-Trichloroethane

Concen: 0.382 ug/L

RT: 8.08 min Scan# 2147

Delta R.T. 0.01 min

Lab File: VU027787.D

Acq: 24 Oct 2018 15:48

Instrument :

MSVOA_U

ClientSampleId :

MDL04

Tgt Ion: 97 Resp: 840

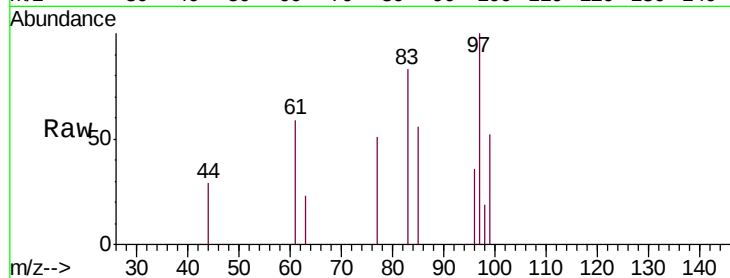
Ion Ratio Lower Upper

97 100

99 52.1 42.8 79.6

83 83.4 62.9 116.9

85 56.3 40.8 75.8

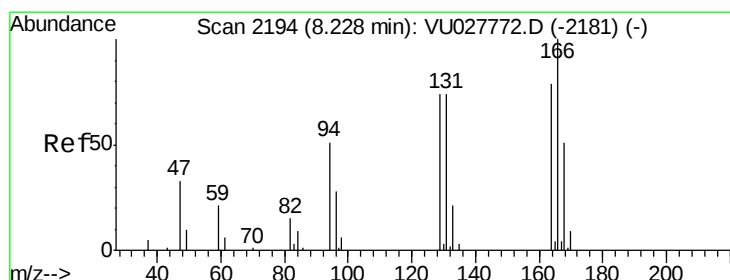
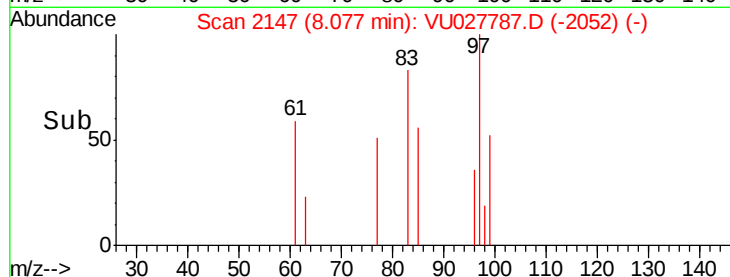
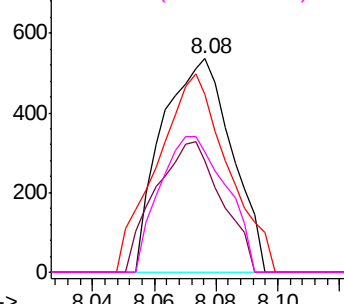


Abundance Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0



#47

Tetrachloroethene

Concen: 0.414 ug/L

RT: 8.23 min Scan# 2195

Delta R.T. 0.00 min

Lab File: VU027787.D

Acq: 24 Oct 2018 15:48

Tgt Ion: 164 Resp: 1081

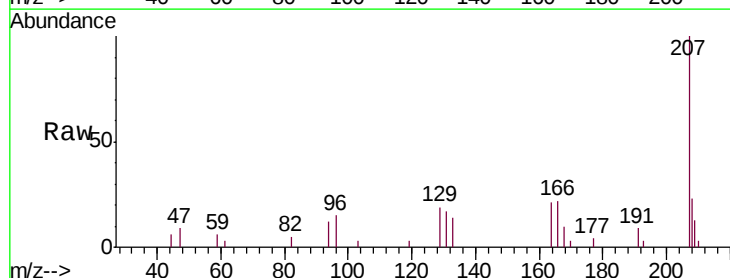
Ion Ratio Lower Upper

164 100

129 93.7 65.6 121.8

131 81.1 65.0 120.8

166 108.2 88.3 164.1

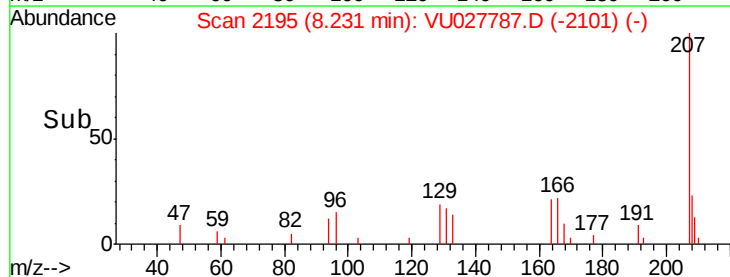
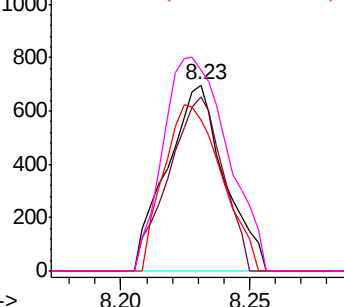


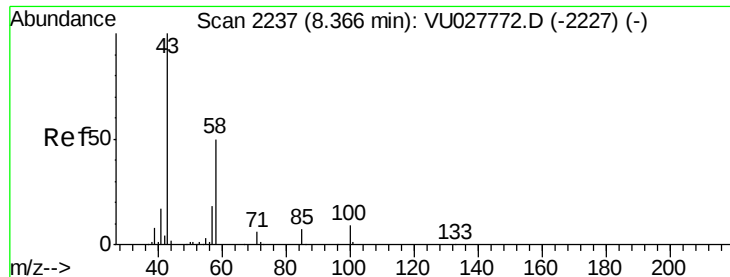
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V

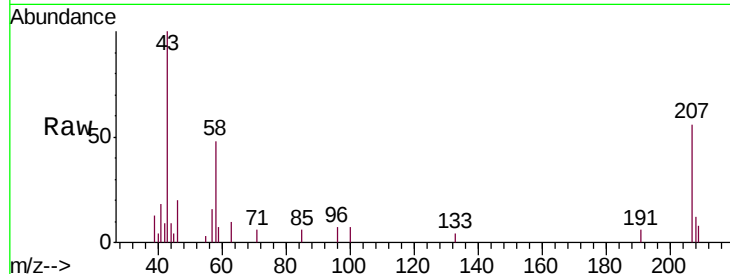




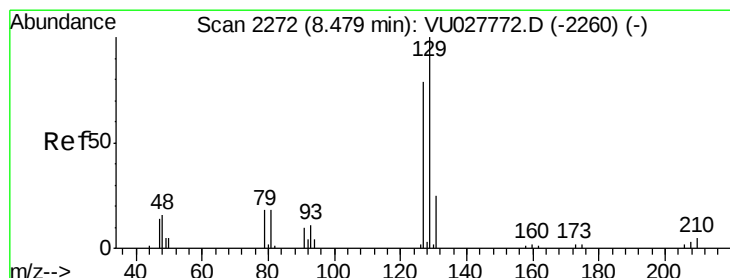
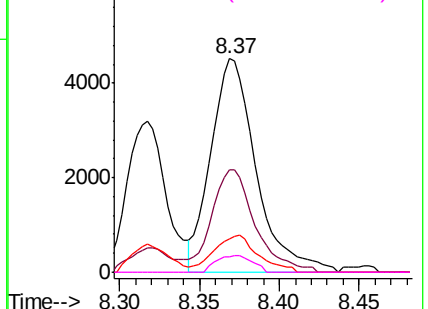
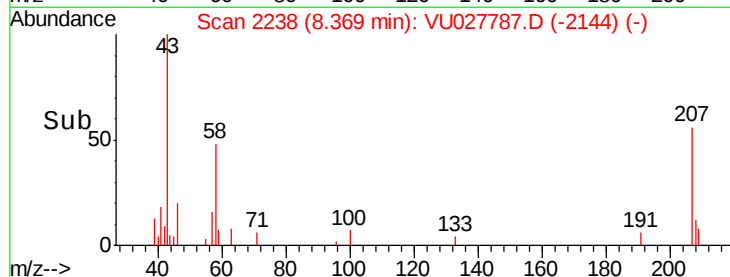
#48
2-Hexanone
Concen: 4.587 ug/L
RT: 8.37 min Scan# 2238
Delta R.T. 0.00 min
Lab File: VU027787.D
Acq: 24 Oct 2018 15:48

Instrument :
MSVOA_U
ClientSampleId :
MDL04

Tgt Ion: 43 Resp: 8878
Ion Ratio Lower Upper
43 100
58 46.2 39.4 59.0
57 17.0 13.8 20.8
100 6.2 6.7 10.1#

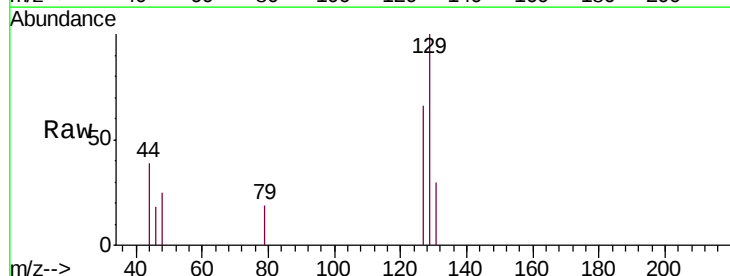


Abundance Ion 43.05 (42.75 to 43.75): VU027787.D (-2144) (-)
Ion 58.05 (57.75 to 58.75): VU027787.D (-2144) (-)
Ion 57.20 (56.90 to 57.90): VU027787.D (-2144) (-)
Ion 100.15 (99.85 to 100.85): VU027787.D (-2144) (-)

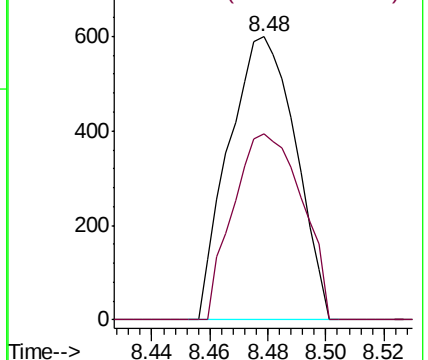
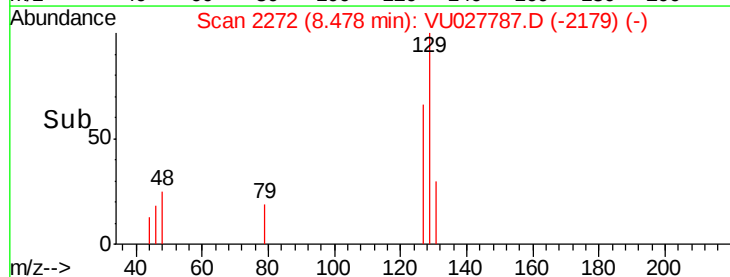


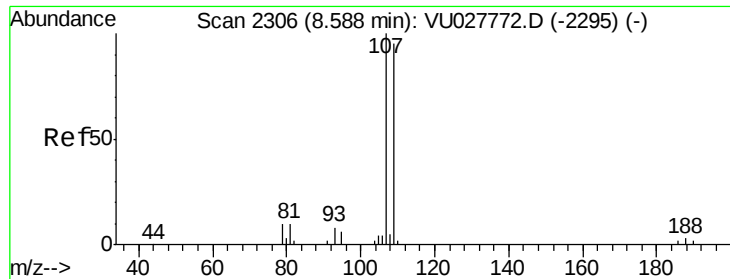
#49
Dibromochloromethane
Concen: 0.342 ug/L
RT: 8.48 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VU027787.D
Acq: 24 Oct 2018 15:48

Tgt Ion: 129 Resp: 957
Ion Ratio Lower Upper
129 100
127 65.9 55.2 102.4



Abundance Ion 128.95 (128.65 to 129.65): VU027787.D (-2179) (-)
Ion 126.90 (126.60 to 127.60): VU027787.D (-2179) (-)

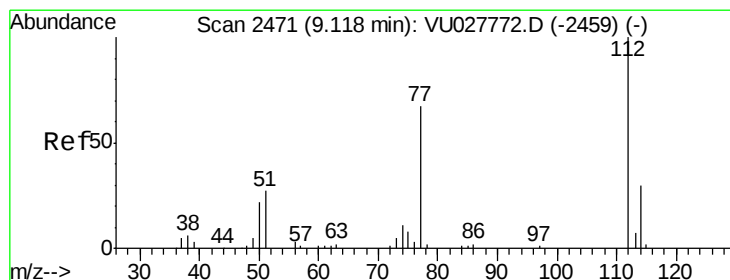
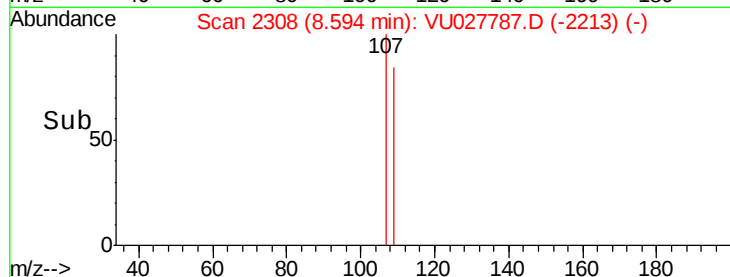
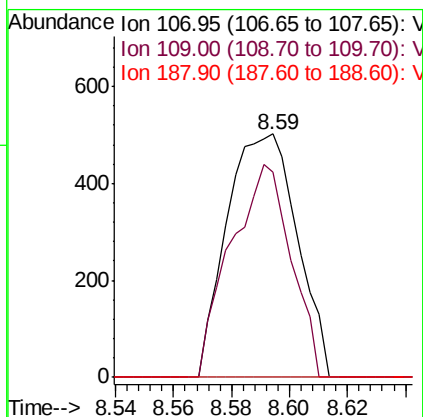
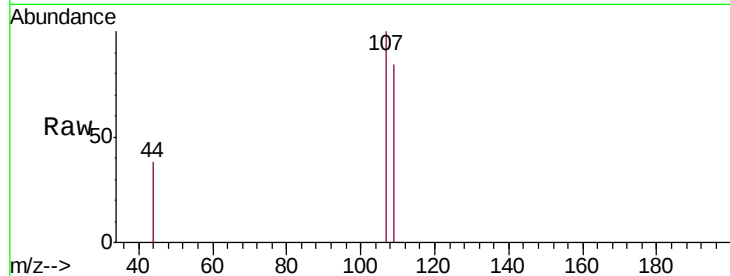




#50
1,2-Dibromoethane
Concen: 0.394 ug/L
RT: 8.59 min Scan# 2308
Delta R.T. 0.01 min
Lab File: VU027787.D
Acq: 24 Oct 2018 15:48

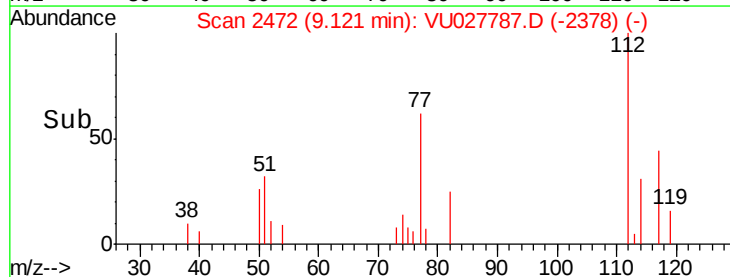
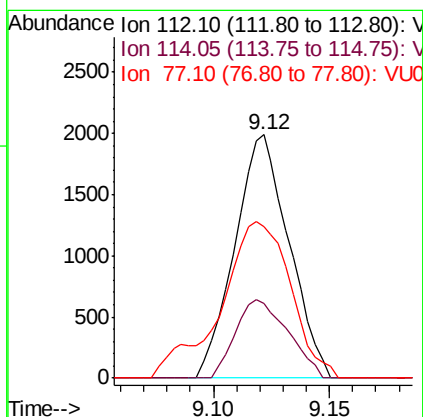
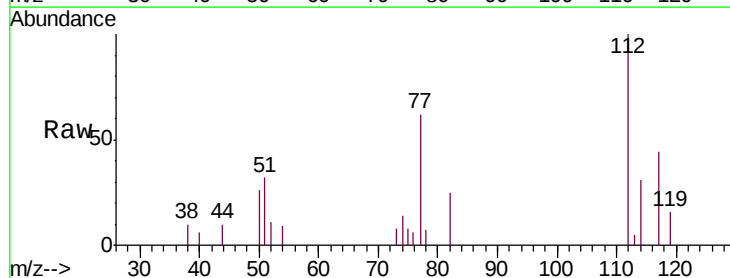
Instrument :
MSVOA_U
ClientSampleId :
MDL04

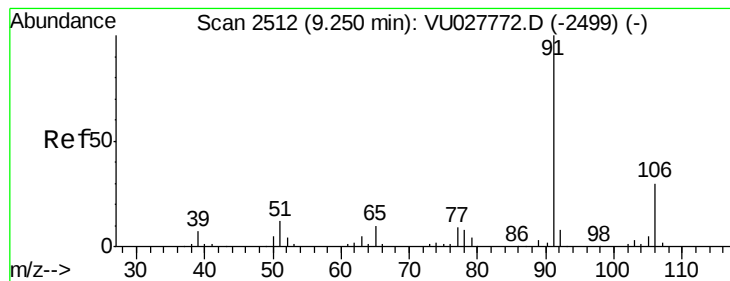
Tgt Ion:107 Resp: 843
Ion Ratio Lower Upper
107 100
109 84.1 66.3 123.1
188 0.0 2.6 3.8#



#51
Chlorobenzene
Concen: 0.392 ug/L
RT: 9.12 min Scan# 2472
Delta R.T. 0.00 min
Lab File: VU027787.D
Acq: 24 Oct 2018 15:48

Tgt Ion:112 Resp: 3225
Ion Ratio Lower Upper
112 100
114 30.6 21.2 39.4
77 62.3 54.2 81.4





#52

Ethylbenzene

Concen: 0.389 ug/L

RT: 9.25 min Scan# 2513

Delta R.T. 0.00 min

Lab File: VU027787.D

Acq: 24 Oct 2018 15:48

Instrument :

MSVOA_U

ClientSampleId :

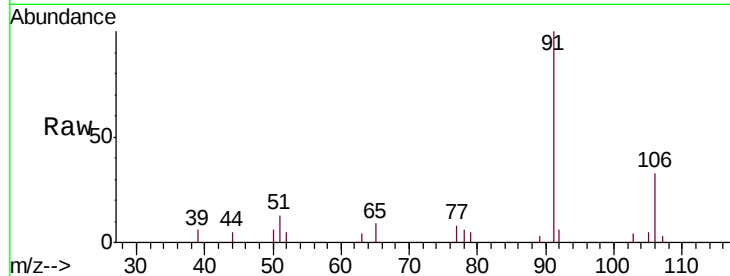
MDL04

Tgt Ion: 91 Resp: 6021

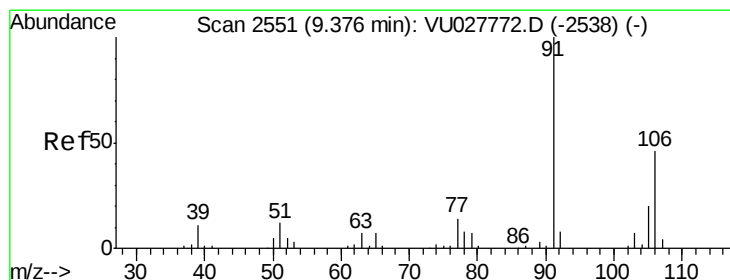
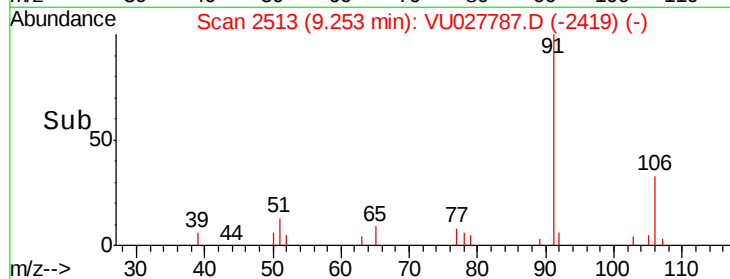
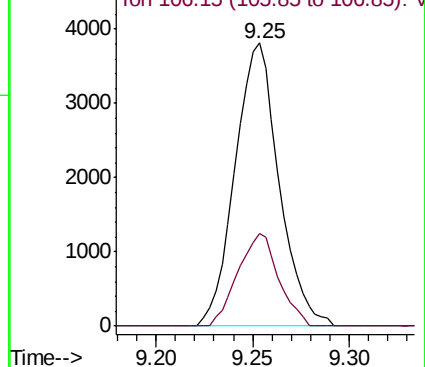
Ion Ratio Lower Upper

91 100

106 32.6 20.6 38.4



Abundance Ion 91.15 (90.85 to 91.85): VU027787.D (-2419) (-)



#53

m,p-xylene

Concen: 0.384 ug/L

RT: 9.38 min Scan# 2551

Delta R.T. -0.00 min

Lab File: VU027787.D

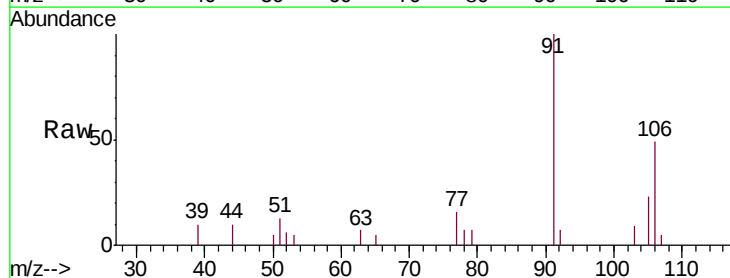
Acq: 24 Oct 2018 15:48

Tgt Ion: 106 Resp: 2107

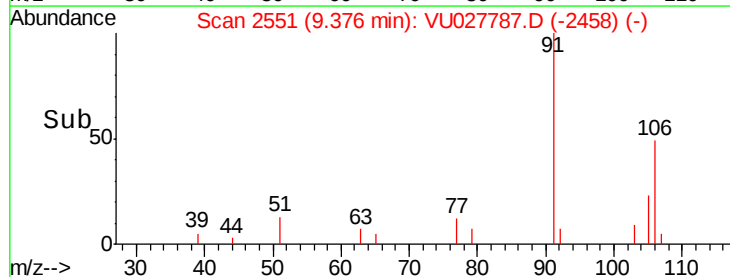
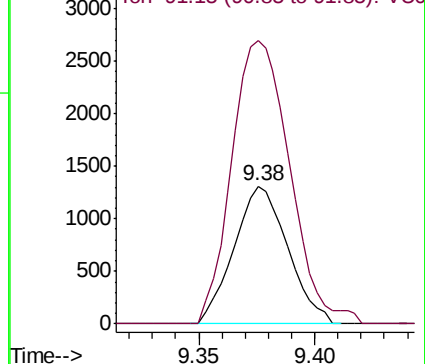
Ion Ratio Lower Upper

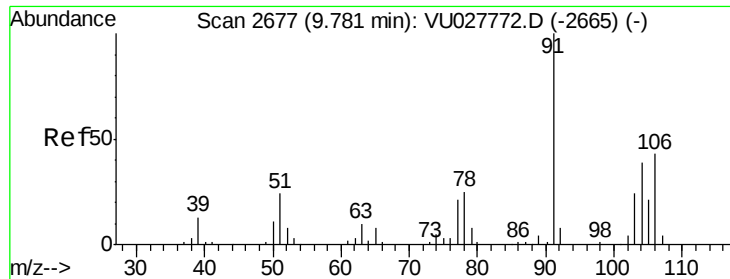
106 100

91 205.5 154.1 286.3



Abundance Ion 106.15 (105.85 to 106.85): VU027787.D (-2458) (-)

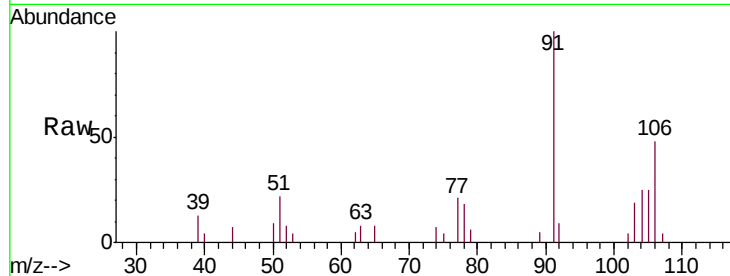




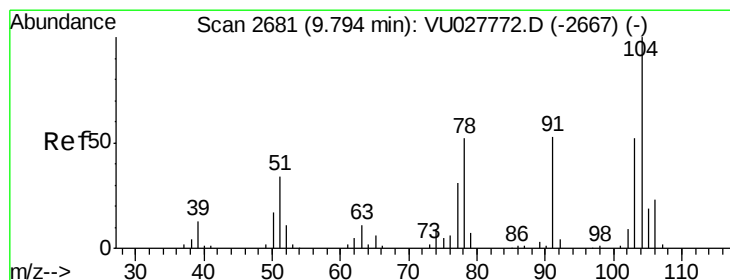
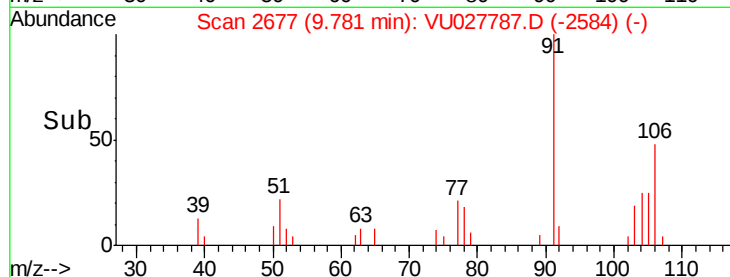
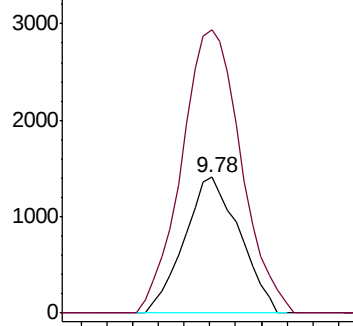
#54
o-xylene
Concen: 0.394 ug/L
RT: 9.78 min Scan# 2677
Delta R.T. -0.00 min
Lab File: VU027787.D
Acq: 24 Oct 2018 15:48

Instrument :
MSVOA_U
ClientSampleId :
MDL04

Tgt Ion:106 Resp: 2113
Ion Ratio Lower Upper
106 100
91 208.0 161.3 299.7

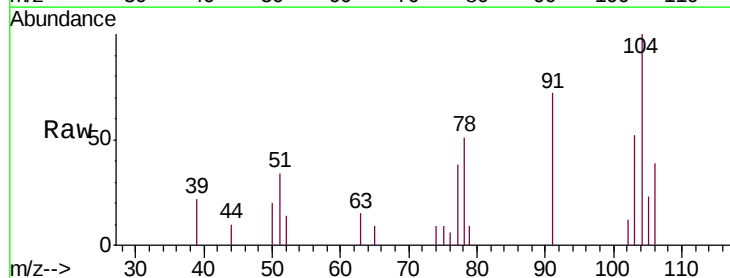


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

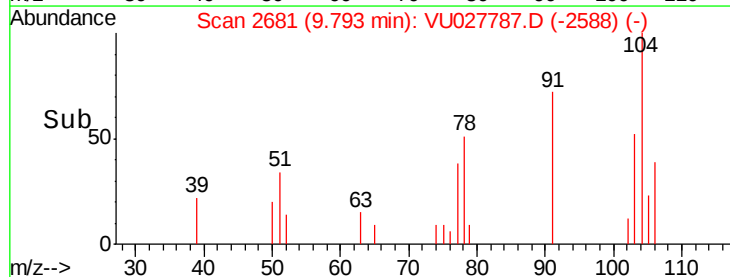
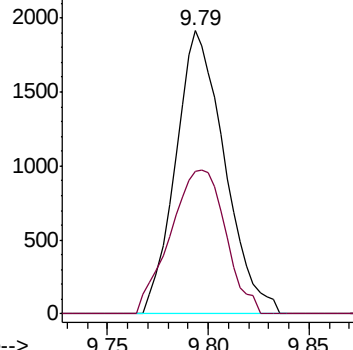


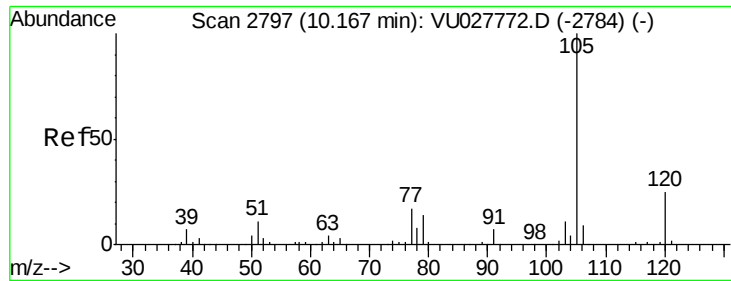
#55
Styrene
Concen: 0.358 ug/L
RT: 9.79 min Scan# 2681
Delta R.T. -0.00 min
Lab File: VU027787.D
Acq: 24 Oct 2018 15:48

Tgt Ion:104 Resp: 3248
Ion Ratio Lower Upper
104 100
78 50.5 36.3 67.3



Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VU0





#56

Isopropylbenzene

Concen: 0.375 ug/L

RT: 10.17 min Scan# 2797

Delta R.T. -0.00 min

Lab File: VU027787.D

Acq: 24 Oct 2018 15:48

Instrument :

MSVOA_U

ClientSampleId :

MDL04

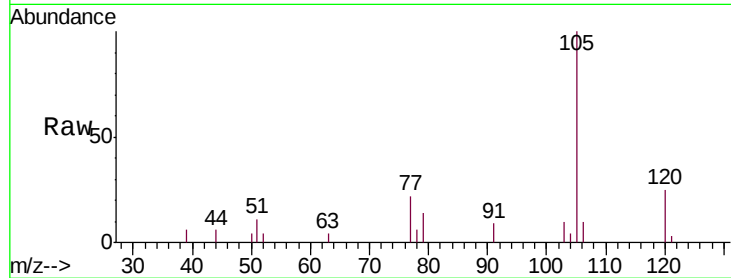
Tgt Ion: 105 Resp: 5565

Ion Ratio Lower Upper

105 100

120 24.8 19.9 29.9

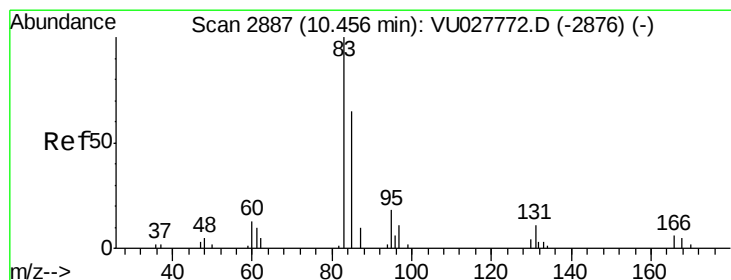
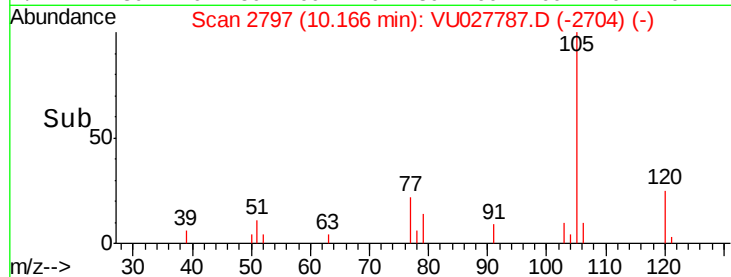
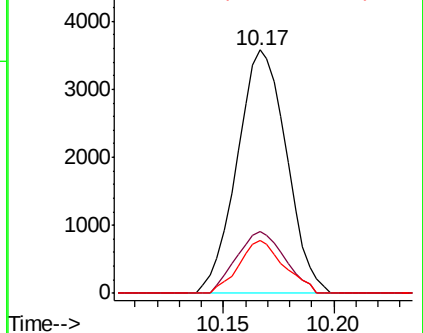
77 19.8 13.7 20.5



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 0.361 ug/L

RT: 10.46 min Scan# 2888

Delta R.T. 0.00 min

Lab File: VU027787.D

Acq: 24 Oct 2018 15:48

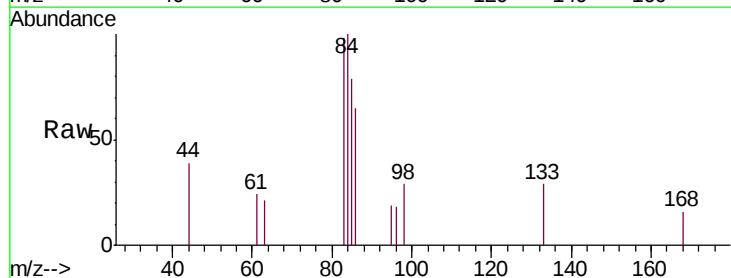
Tgt Ion: 83 Resp: 1043

Ion Ratio Lower Upper

83 100

85 80.9 45.5 84.5

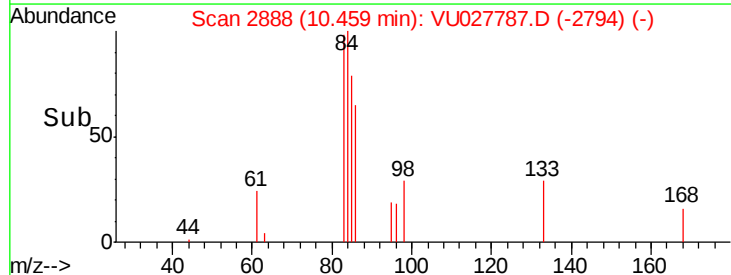
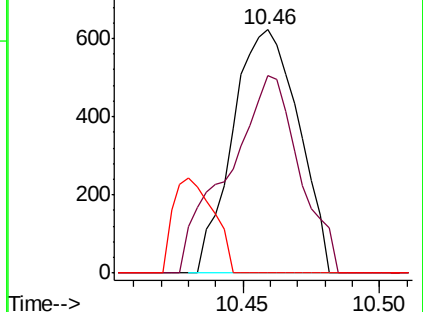
131 0.0 8.8 13.2#

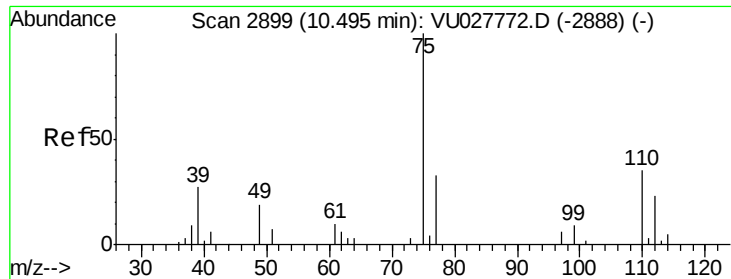


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V

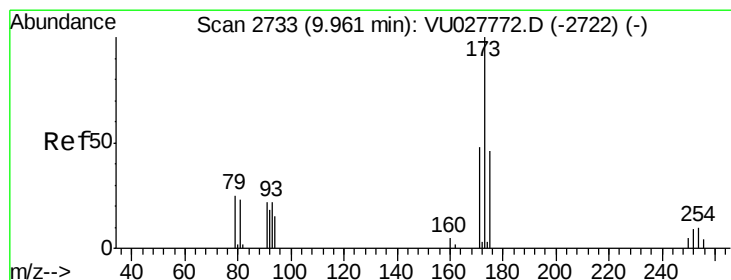
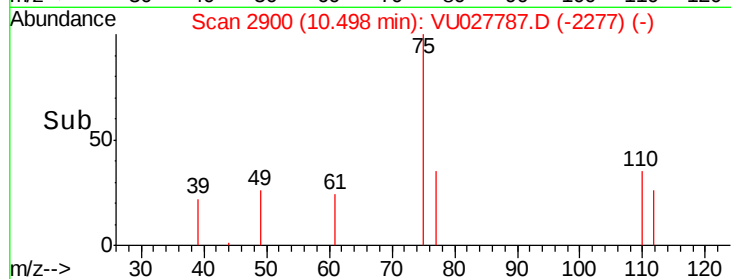
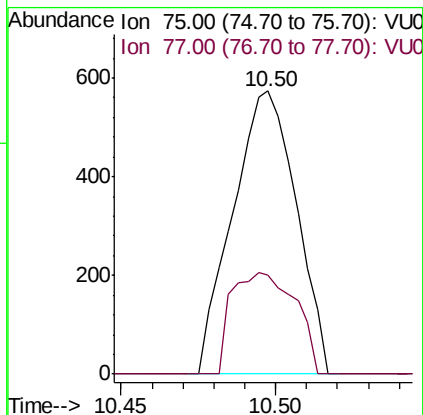
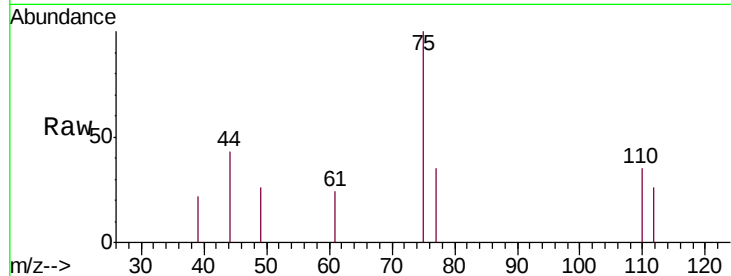




#59
 1,2,3-Trichloropropane
 Concen: 0.357 ug/L
 RT: 10.50 min Scan# 2900
 Delta R.T. 0.00 min
 Lab File: VU027787.D
 Acq: 24 Oct 2018 15:48

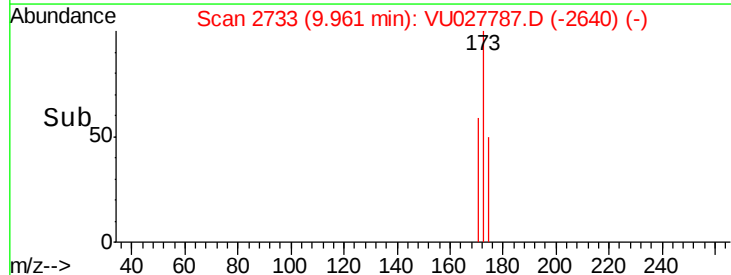
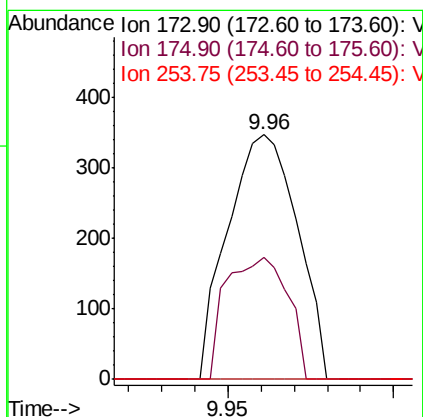
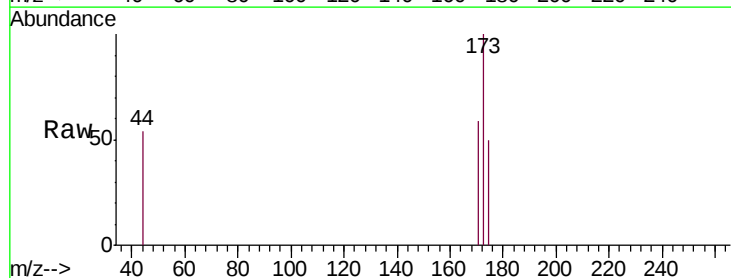
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

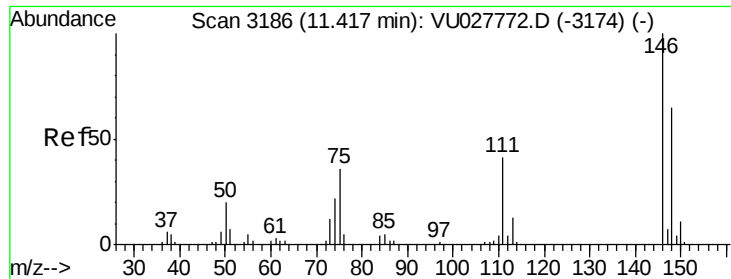
Tgt Ion: 75 Resp: 819
 Ion Ratio Lower Upper
 75 100
 77 36.0 26.4 39.6



#61
 Bromoform
 Concen: 0.308 ug/L
 RT: 9.96 min Scan# 2733
 Delta R.T. -0.00 min
 Lab File: VU027787.D
 Acq: 24 Oct 2018 15:48

Tgt Ion: 173 Resp: 507
 Ion Ratio Lower Upper
 173 100
 175 43.6 37.7 56.5
 254 0.0 7.2 10.8#





#62

1,3-Dichlorobenzene

Concen: 0.383 ug/L

RT: 11.42 min Scan# 3186

Delta R.T. -0.00 min

Lab File: VU027787.D

Acq: 24 Oct 2018 15:48

Instrument :

MSVOA_U

ClientSampleId :

MDL04

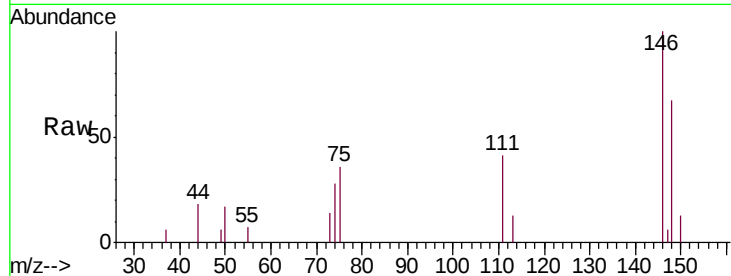
Tgt Ion:146 Resp: 2639

Ion Ratio Lower Upper

146 100

111 41.2 28.6 53.0

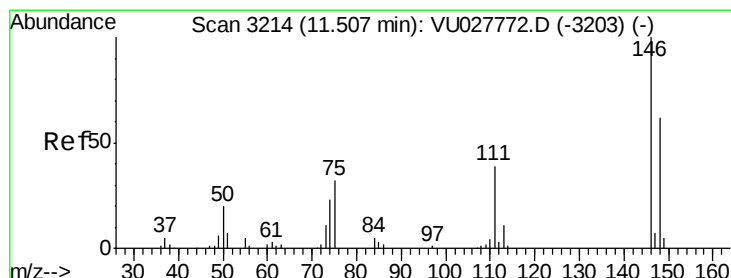
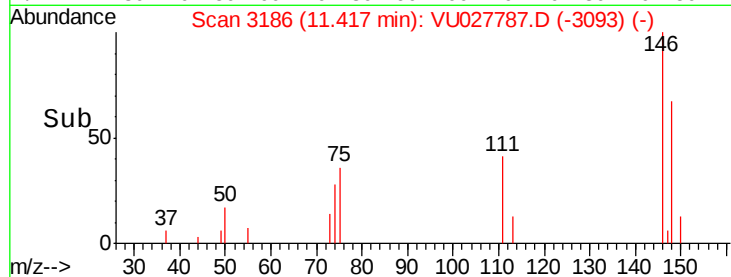
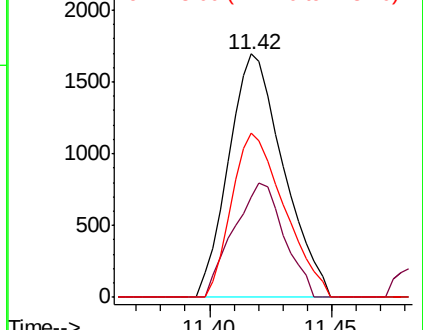
148 67.3 45.1 83.9



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 0.357 ug/L

RT: 11.51 min Scan# 3214

Delta R.T. -0.00 min

Lab File: VU027787.D

Acq: 24 Oct 2018 15:48

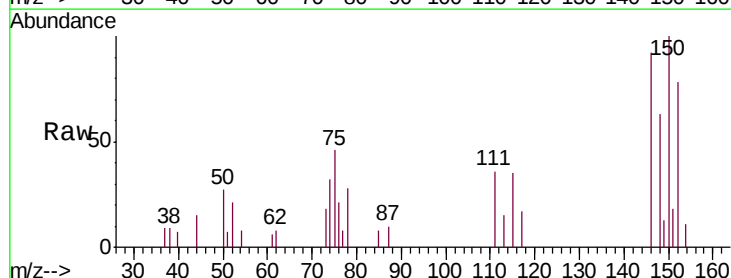
Tgt Ion:146 Resp: 2487

Ion Ratio Lower Upper

146 100

111 38.6 27.6 51.4

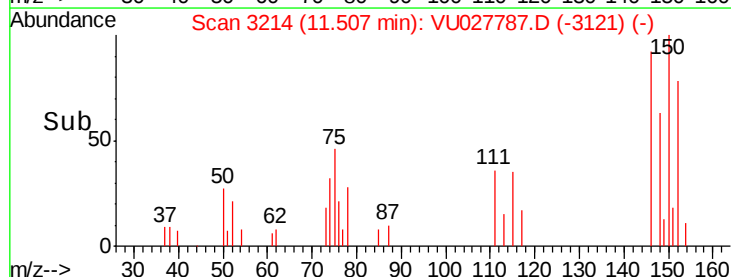
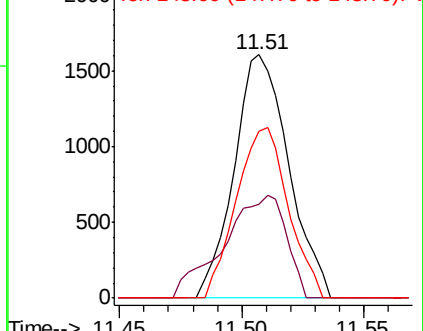
148 68.6 43.3 80.3

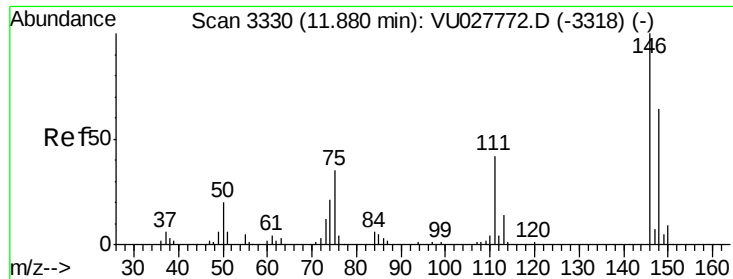


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 0.386 ug/L

RT: 11.88 min Scan# 3330

Delta R.T. -0.00 min

Lab File: VU027787.D

Acq: 24 Oct 2018 15:48

Instrument :

MSVOA_U

ClientSampleId :

MDL04

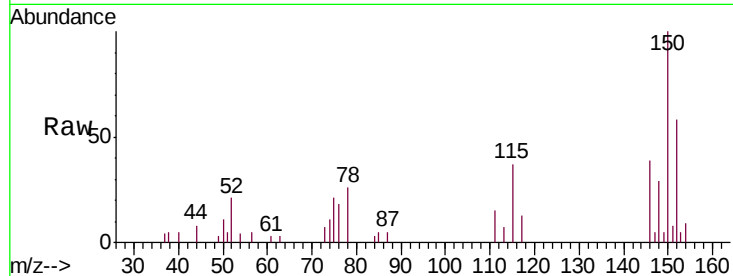
Tgt Ion:146 Resp: 2502

Ion Ratio Lower Upper

146 100

111 38.9 33.7 50.5

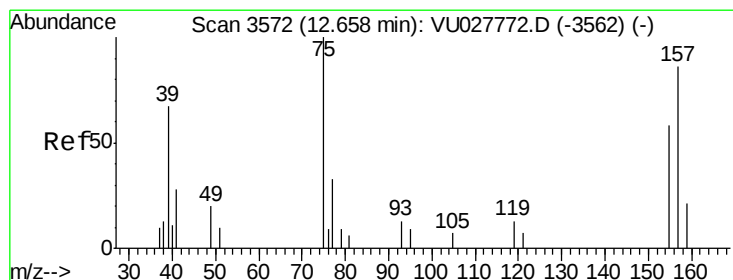
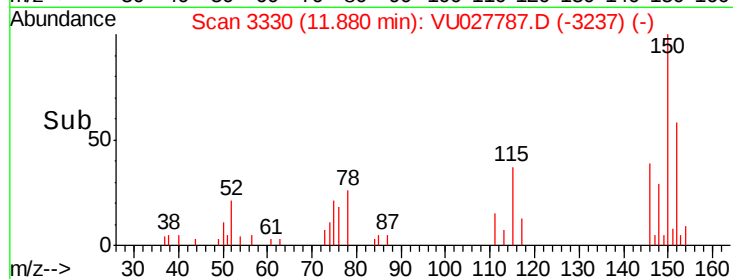
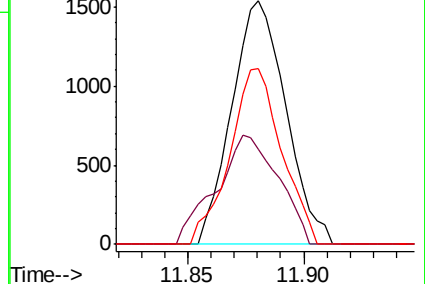
148 72.4 50.8 76.2



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 0.248 ug/L

RT: 12.66 min Scan# 3572

Delta R.T. -0.00 min

Lab File: VU027787.D

Acq: 24 Oct 2018 15:48

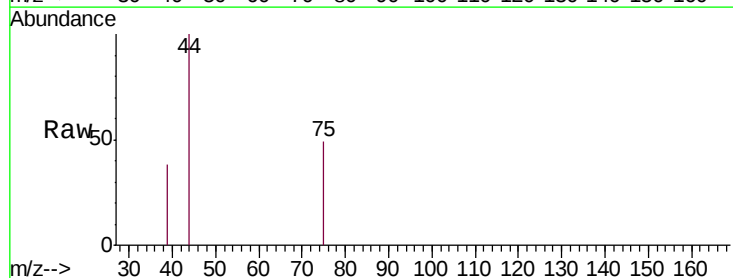
Tgt Ion: 75 Resp: 128

Ion Ratio Lower Upper

75 100

155 0.0 46.2 69.2#

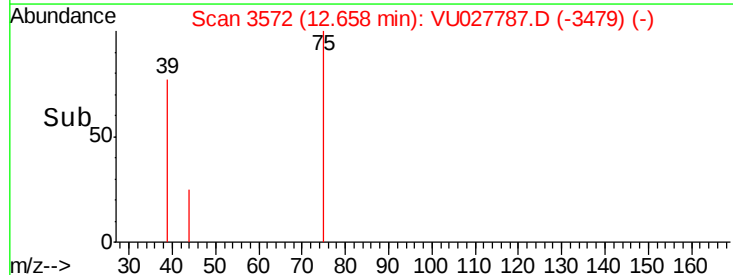
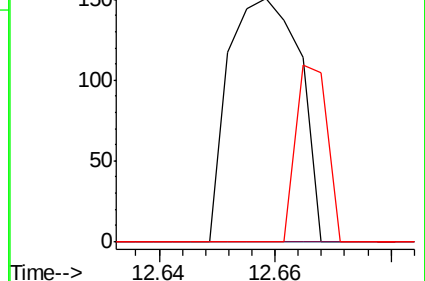
157 0.0 68.9 103.3#

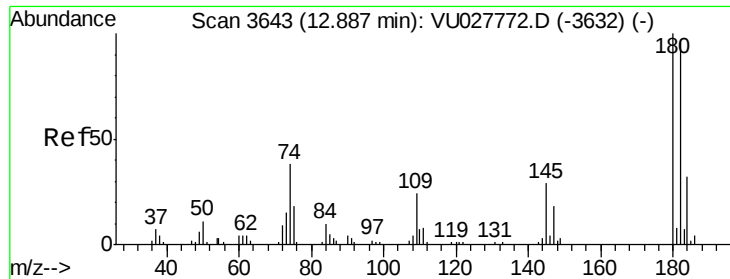


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

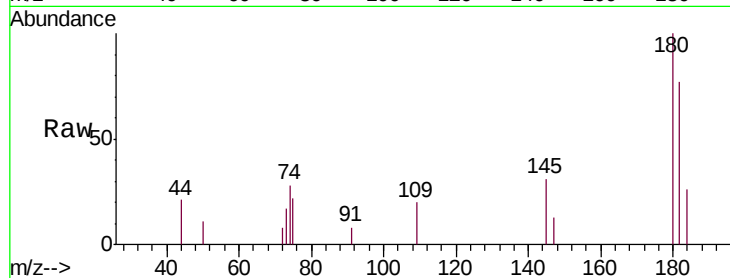




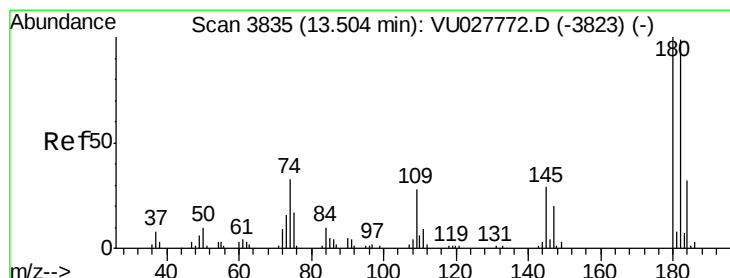
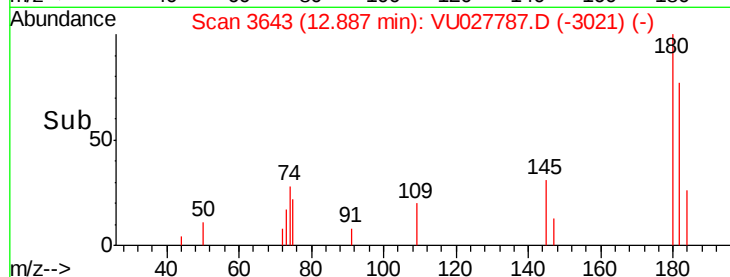
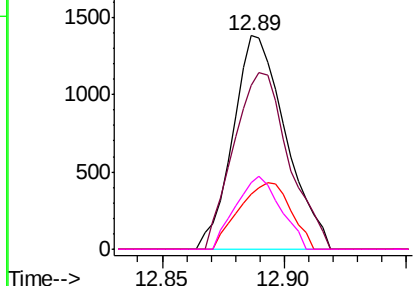
#67
 1,3,5-Trichlorobenzene
 Concen: 0.374 ug/L
 RT: 12.89 min Scan# 3643
 Delta R.T. -0.00 min
 Lab File: VU027787.D
 Acq: 24 Oct 2018 15:48

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

Tgt Ion:180 Resp: 2066
 Ion Ratio Lower Upper
 180 100
 182 86.4 78.9 118.3
 184 30.6 24.6 37.0
 145 29.0 23.4 35.0

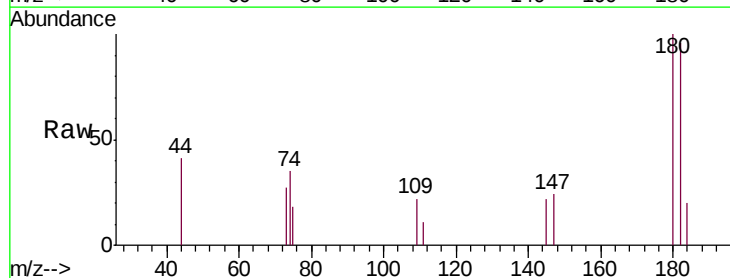


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

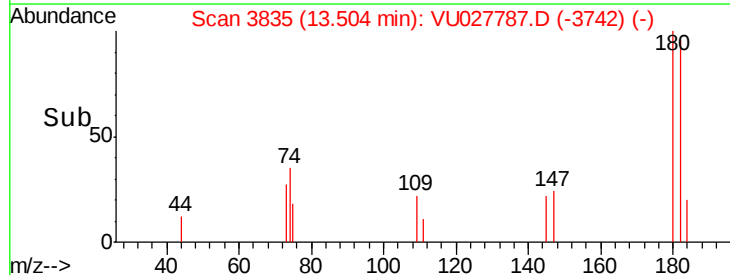
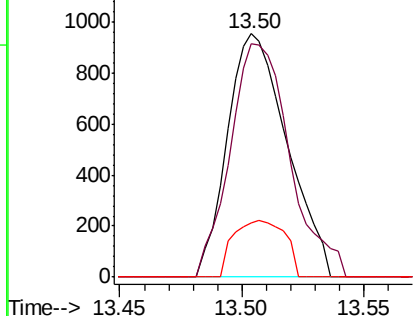


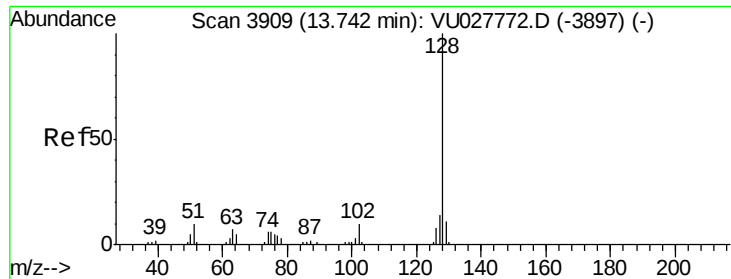
#68
 1,2,4-trichlorobenzene
 Concen: 0.338 ug/L
 RT: 13.50 min Scan# 3835
 Delta R.T. -0.00 min
 Lab File: VU027787.D
 Acq: 24 Oct 2018 15:48

Tgt Ion:180 Resp: 1622
 Ion Ratio Lower Upper
 180 100
 182 96.1 77.6 116.4
 145 20.0 23.7 35.5#



Abundance Ion 179.90 (179.60 to 180.60): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 0.291 ug/L

RT: 13.75 min Scan# 3912

Delta R.T. 0.01 min

Lab File: VU027787.D

Acq: 24 Oct 2018 15:48

Instrument :

MSVOA_U

ClientSampleId :

MDL04

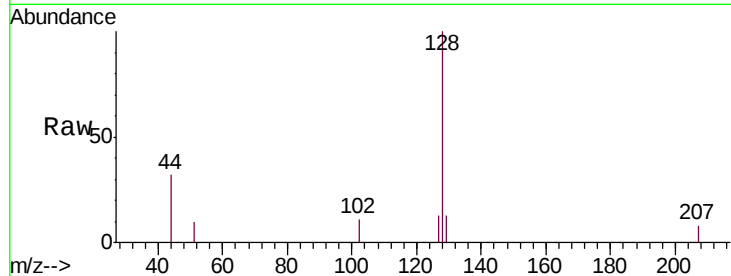
Tgt Ion:128 Resp: 2269

Ion Ratio Lower Upper

128 100

129 8.2 8.8 13.2#

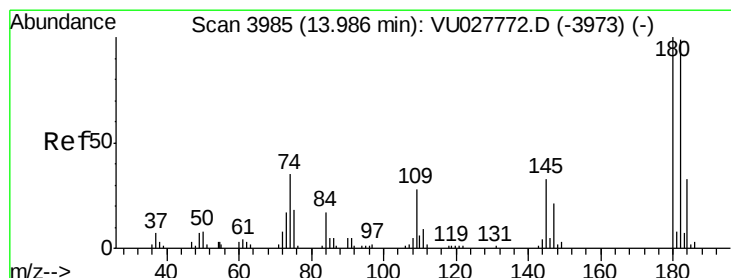
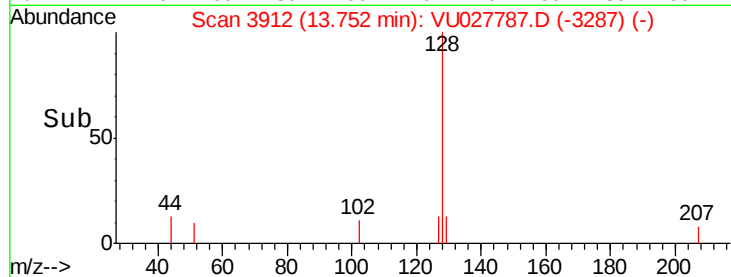
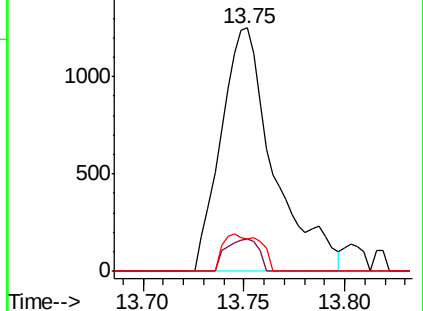
127 10.9 10.7 16.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 0.367 ug/L

RT: 13.99 min Scan# 3986

Delta R.T. 0.00 min

Lab File: VU027787.D

Acq: 24 Oct 2018 15:48

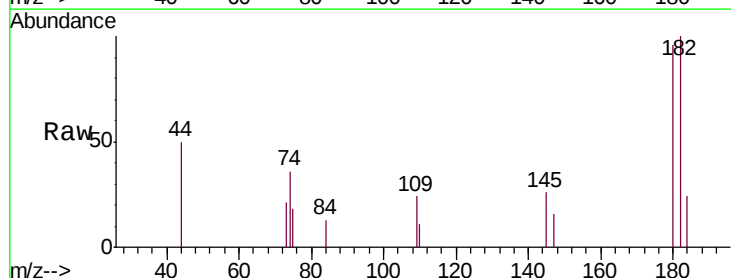
Tgt Ion:180 Resp: 1625

Ion Ratio Lower Upper

180 100

182 93.3 76.9 115.3

145 13.8 24.6 37.0#



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

