

Data File : VU027783.D
Acq On : 24 Oct 2018 14:11
Operator : MD/SY
Sample : MDL07
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
MDL07

Quant Time: Oct 25 04:40:12 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	39781	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	39360	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	19160	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	15401	4.75	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	95.00%
7) Chloroethane-d5	1.68	69	11479	4.68	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	93.60%
11) 1,1-Dichloroethene-d2	2.28	63	22789	3.67	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	73.40%
20) 2-Butanone-d5	4.21	46	49841	50.55	ug/L	0.01
Spiked Amount	50.000	Range	40 - 130	Recovery	=	101.10%
24) Chloroform-d	4.65	84	27296	4.72	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.40%
26) 1,2-Dichloroethane-d4	5.31	65	16514	4.79	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.80%
32) Benzene-d6	5.34	84	51871	4.94	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	98.80%
36) 1,2-Dichloropropane-d6	6.33	67	18574	4.99	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	99.80%
41) Toluene-d8	7.57	98	49397	4.94	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.80%
43) trans-1,3-Dichloropropene-	7.85	79	7100	4.70	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	94.00%
46) 2-Hexanone-d5	8.32	63	40996	49.17	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	98.34%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	13529	4.78	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	95.60%
64) 1,2-Dichlorobenzene-d4	11.86	152	17862	4.95	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	99.00%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.21	85	988	0.256 ug/L	96
3) Chloromethane	1.33	50	1081	0.250 ug/L	90
5) Vinyl chloride	1.40	62	1213	0.291 ug/L #	72
6) Bromomethane	1.63	94	563	0.263 ug/L	97
8) Chloroethane	1.71	64	523	0.232 ug/L #	64
9) Trichlorofluoromethane	1.89	101	1455	0.264 ug/L	92
10) 1,1,2-Trichloro-1,2,2-trif	2.30	101	893	0.321 ug/L	91
12) 1,1-Dichloroethene	2.29	96	849	0.327 ug/L #	1
13) Acetone	2.35	43	2858	4.021 ug/L	76
14) Carbon disulfide	2.48	76	2224	0.250 ug/L #	92
15) Methyl Acetate	2.63	43	820	0.412 ug/L #	57
16) Methylene chloride	2.70	84	1256	0.411 ug/L	97
17) Methyl tert-butyl Ether	3.01	73	1869	0.225 ug/L #	94
18) trans-1,2-Dichloroethene	2.99	96	766	0.276 ug/L	93
19) 1,1-Dichloroethane	3.45	63	1643	0.267 ug/L #	95
22) cis-1,2-Dichloroethene	4.23	96	642	0.195 ug/L	82
23) Bromochloromethane	4.56	128	225	0.168 ug/L #	72

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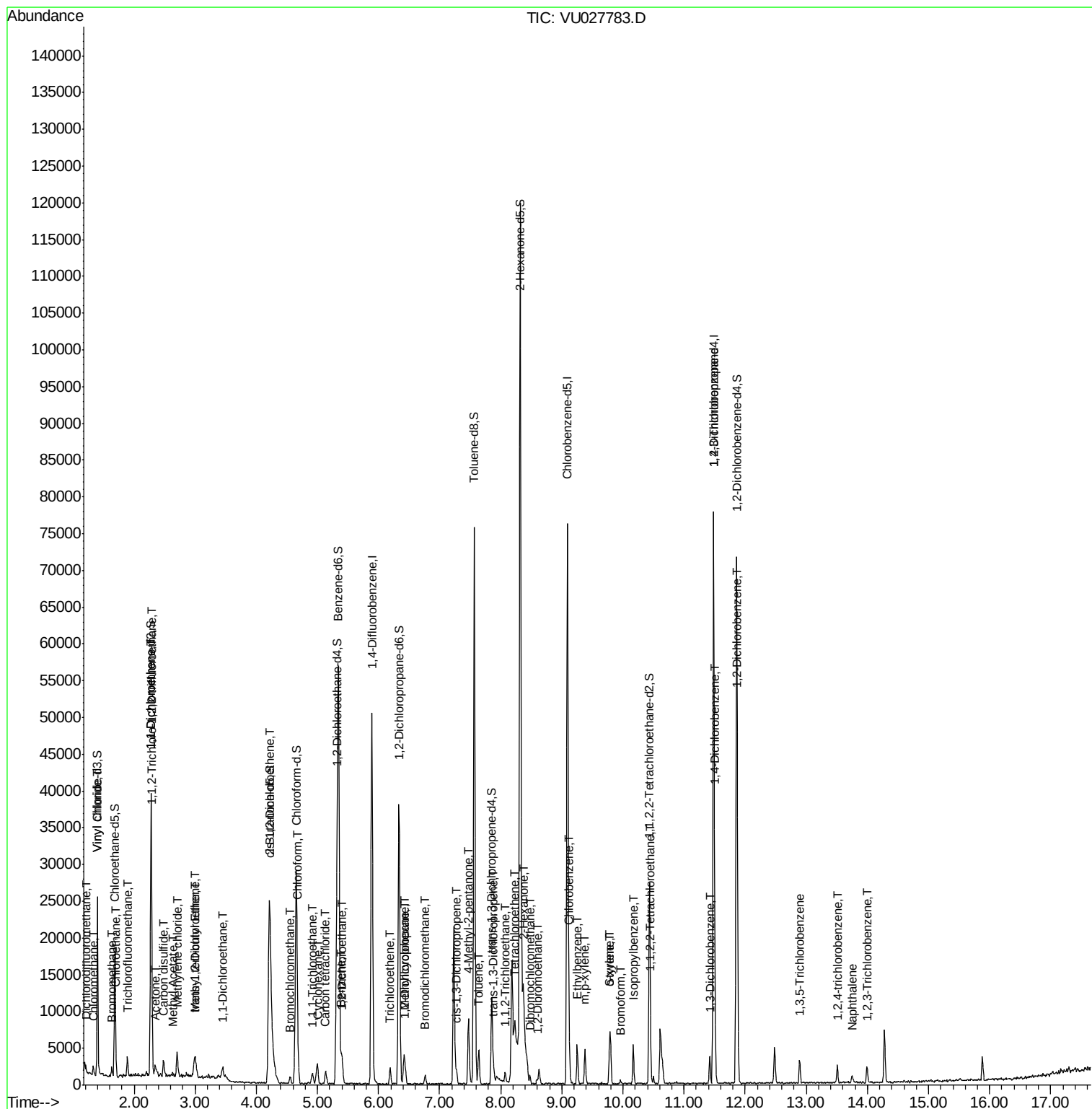
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Chloroform	4.68	83	1702	0.275	ug/L	93
27) 1,2-Dichloroethane	5.41	62	1252	0.274	ug/L #	79
29) 1,1,1-Trichloroethane	4.91	97	614	0.108	ug/L #	19
30) Cyclohexane	4.99	56	1522	0.240	ug/L #	91
31) Carbon tetrachloride	5.14	117	1060	0.218	ug/L	90
33) Benzene	5.39	78	3510	0.268	ug/L	100
34) Trichloroethene	6.19	95	846	0.250	ug/L	95
35) Methylcyclohexane	6.41	83	1502	0.265	ug/L	97
37) 1,2-Dichloropropane	6.44	63	931	0.242	ug/L #	90
38) Bromodichloromethane	6.76	83	1118	0.244	ug/L #	88
39) cis-1,3-Dichloropropene	7.28	75	1185	0.215	ug/L	98
40) 4-Methyl-2-pentanone	7.47	43	6953	2.422	ug/L #	91
42) Toluene	7.64	91	3726	0.265	ug/L	98
44) trans-1,3-Dichloropropene	7.89	75	1160	0.250	ug/L	90
45) 1,1,2-Trichloroethane	8.07	97	423	0.182	ug/L #	78
47) Tetrachloroethene	8.22	164	637	0.231	ug/L	93
48) 2-Hexanone	8.37	43	5918	2.901	ug/L #	97
49) Dibromochloromethane	8.48	129	661	0.224	ug/L	99
50) 1,2-Dibromoethane	8.59	107	503	0.223	ug/L #	85
51) Chlorobenzene	9.12	112	2266	0.261	ug/L	97
52) Ethylbenzene	9.25	91	4077	0.250	ug/L	91
53) m,p-xylene	9.38	106	1443	0.249	ug/L	90
54) o-xylene	9.78	106	1395	0.247	ug/L	77
55) Styrene	9.80	104	2245	0.234	ug/L	93
56) Isopropylbenzene	10.17	105	3739	0.239	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.46	83	758	0.249	ug/L #	93
59) 1,2,3-Trichloropropane	11.48	75	3261	1.349	ug/L	91
61) Bromoform	9.96	173	319	0.198	ug/L #	71
62) 1,3-Dichlorobenzene	11.42	146	1830	0.272	ug/L	90
63) 1,4-Dichlorobenzene	11.51	146	1853	0.272	ug/L	93
65) 1,2-Dichlorobenzene	11.88	146	1603	0.253	ug/L	94
67) 1,3,5-Trichlorobenzene	12.89	180	1296	0.240	ug/L #	92
68) 1,2,4-trichlorobenzene	13.51	180	1080	0.230	ug/L #	89
69) Naphthalene	13.75	128	1488	0.195	ug/L #	69
70) 1,2,3-Trichlorobenzene	13.99	180	943	0.218	ug/L	91

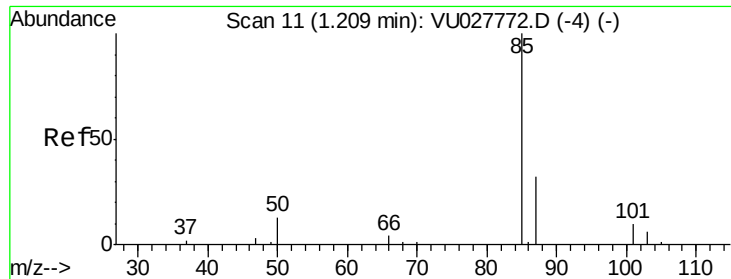
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 0.256 ug/L

RT: 1.21 min Scan# 11

Delta R.T. 0.00 min

Lab File: VU027783.D

Acq: 24 Oct 2018 14:11

Instrument :

MSVOA_U

ClientSampled :

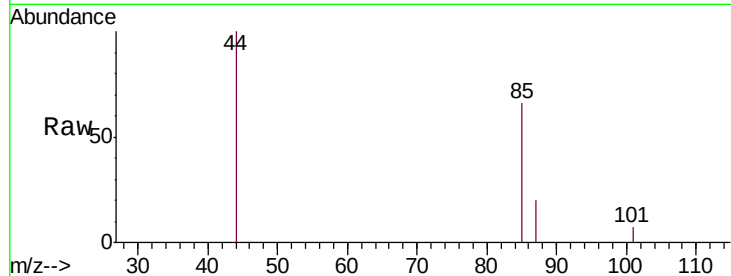
MDL07

Tgt Ion: 85 Resp: 988

Ion Ratio Lower Upper

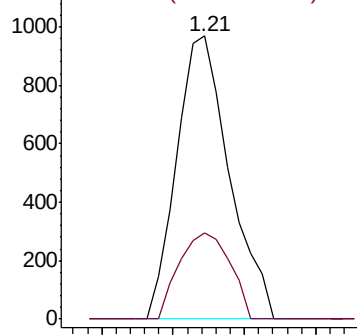
85 100

87 29.6 25.4 38.0

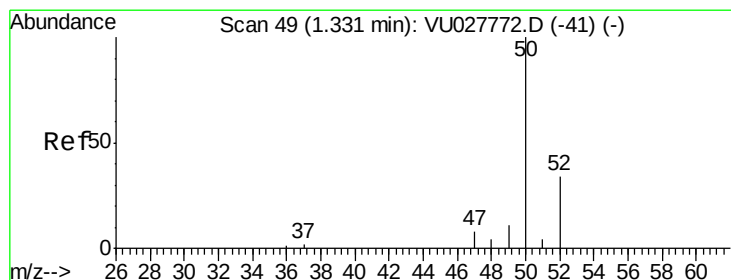
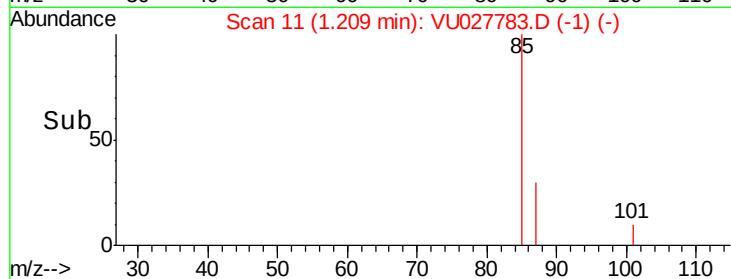


Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



Time-->



#3

Chloromethane

Concen: 0.250 ug/L

RT: 1.33 min Scan# 50

Delta R.T. 0.00 min

Lab File: VU027783.D

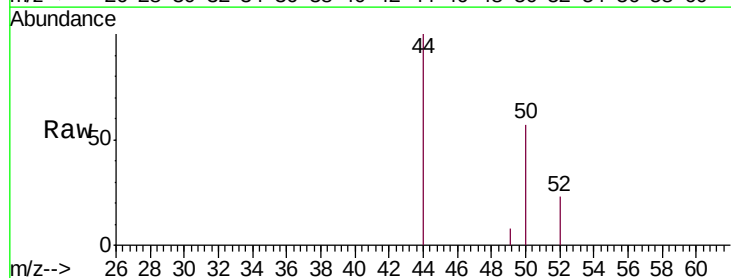
Acq: 24 Oct 2018 14:11

Tgt Ion: 50 Resp: 1081

Ion Ratio Lower Upper

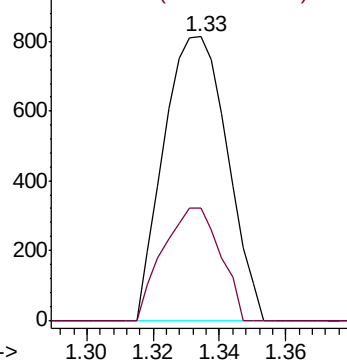
50 100

52 39.5 23.7 43.9

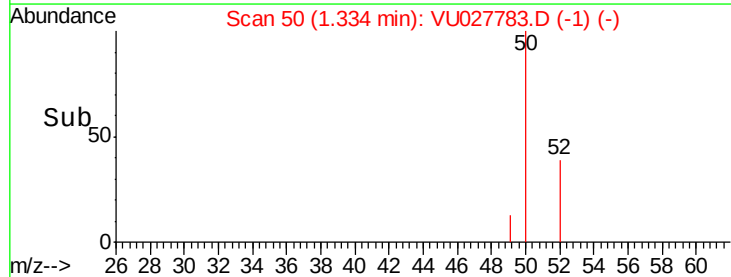


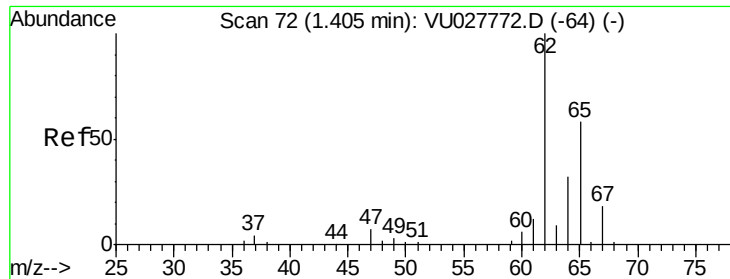
Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0



Time-->





#5

Vinyl chloride

Concen: 0.291 ug/L

RT: 1.40 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU027783.D

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Instrument :

MSVOA_U

ClientSampleId :

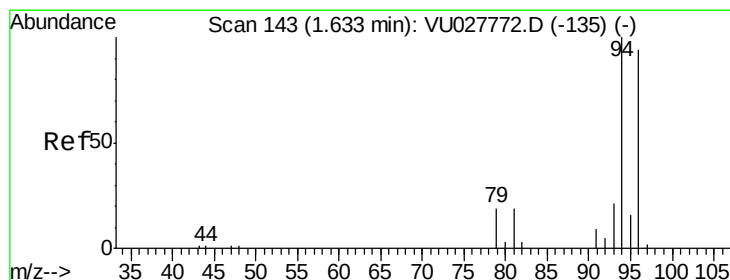
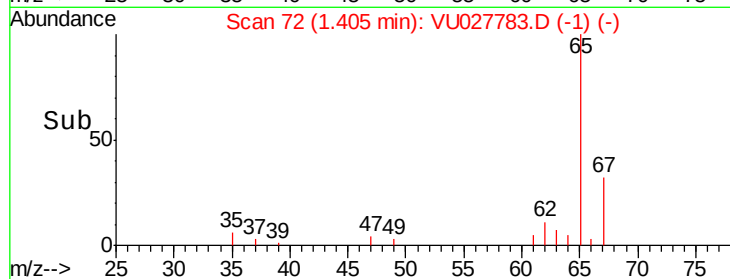
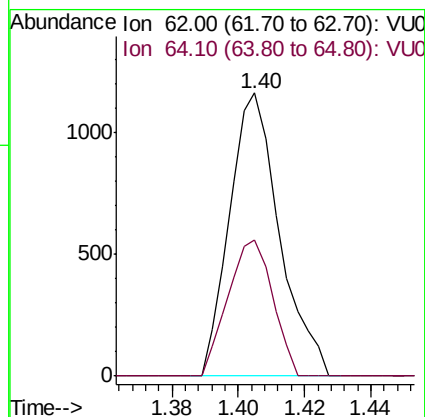
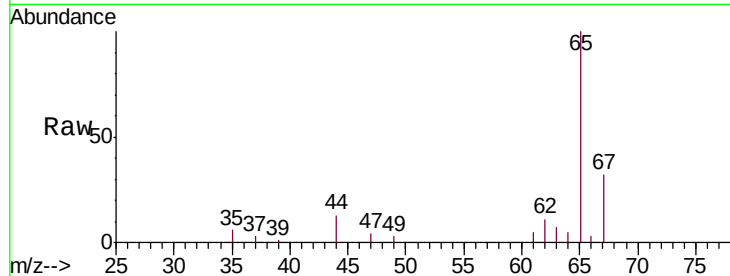
MDL07

Tgt Ion: 62 Resp: 1213

Ion Ratio Lower Upper

62 100

64 48.2 22.7 42.1#



#6

Bromomethane

Concen: 0.263 ug/L

RT: 1.63 min Scan# 143

Delta R.T. 0.00 min

Lab File: VU027783.D

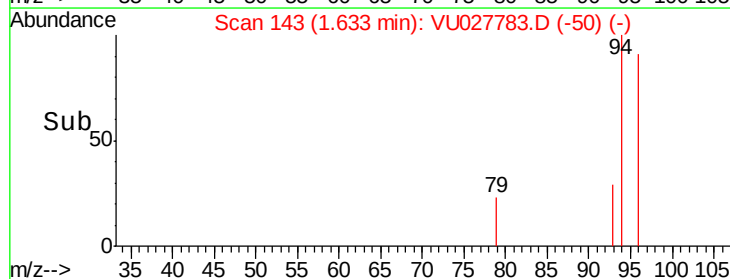
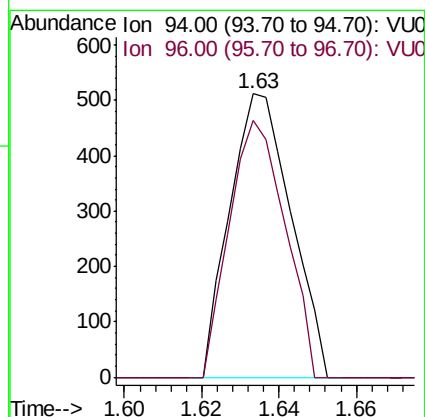
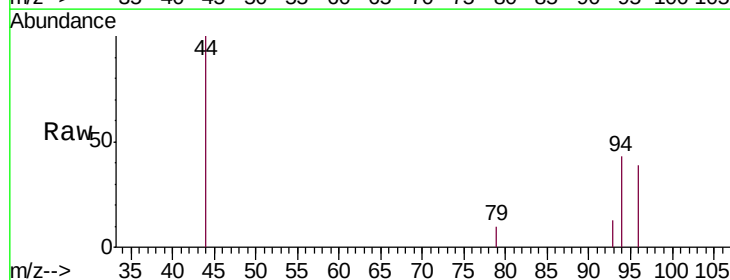
Acq: 24 Oct 2018 14:11

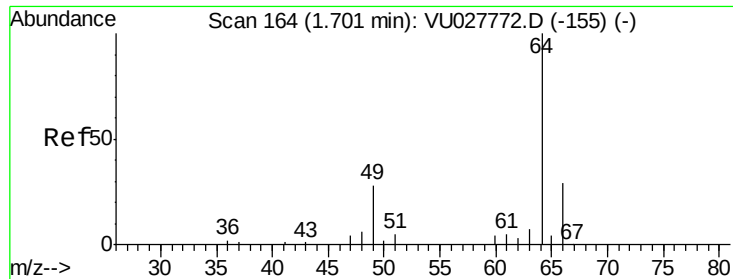
Tgt Ion: 94 Resp: 563

Ion Ratio Lower Upper

94 100

96 90.6 65.5 121.7





#8

Chloroethane

Concen: 0.232 ug/L

RT: 1.71 min Scan# 166

Delta R.T. 0.01 min

Lab File: VU027783.D

Acq: 24 Oct 2018 14:11

Instrument :

MSVOA_U

ClientSampleId :

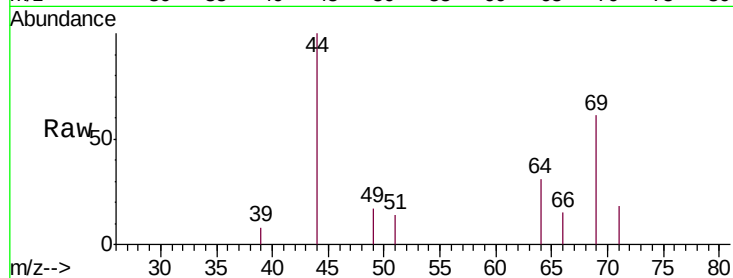
MDL07

Tgt Ion: 64 Resp: 523

Ion Ratio Lower Upper

64 100

66 48.4 20.3 37.7#



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

Ion 66.05 (65.75 to 66.75): VU027772.D (-155) (-)

1.71

400

300

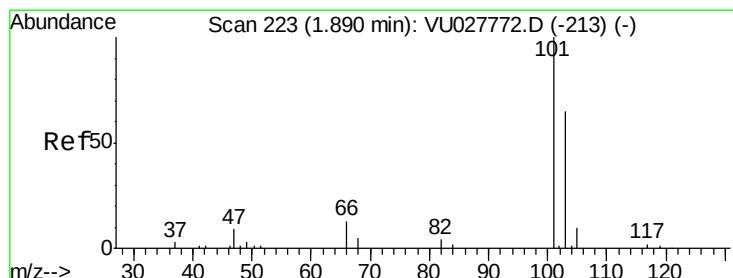
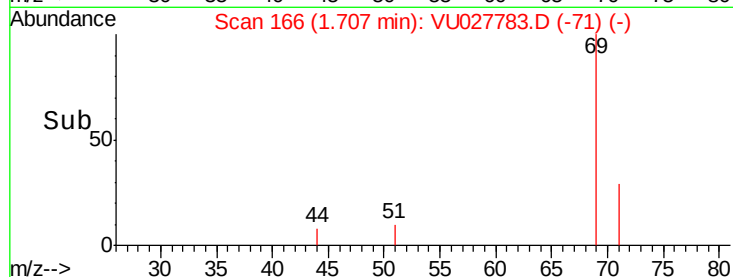
200

100

0

Time-->

1.68 1.70 1.72 1.74



#9

Trichlorofluoromethane

Concen: 0.264 ug/L

RT: 1.89 min Scan# 224

Delta R.T. 0.00 min

Lab File: VU027783.D

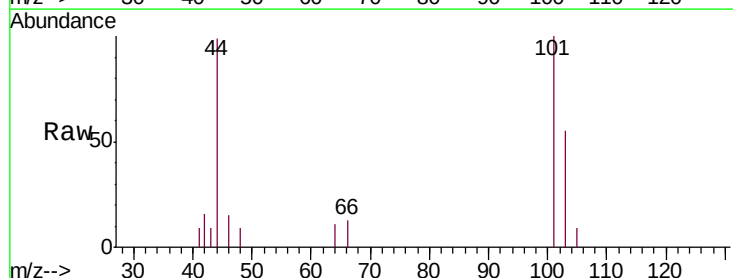
Acq: 24 Oct 2018 14:11

Tgt Ion: 101 Resp: 1455

Ion Ratio Lower Upper

101 100

103 57.7 51.0 76.4



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

Ion 103.00 (102.70 to 103.70): VU027772.D (-213) (-)

1.89

1200

1000

800

600

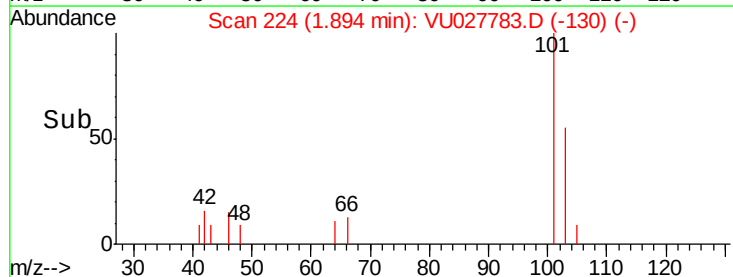
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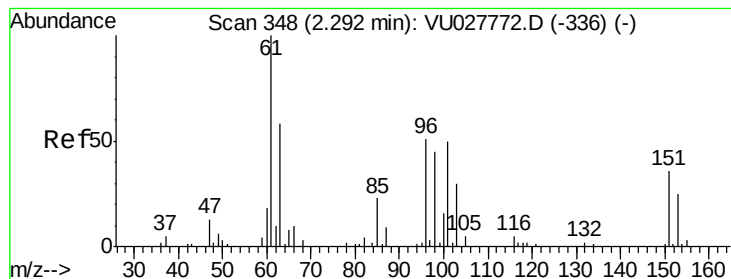
200

0

Time-->

1.86 1.88 1.90 1.92





#10

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

Concen: 0.321 ug/L

RT: 2.30 min Scan# 349

Delta R.T. 0.00 min

Lab File: VU027783.D

Acq: 24 Oct 2018 14:11

Instrument :

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ClientSampleId :

MDL07

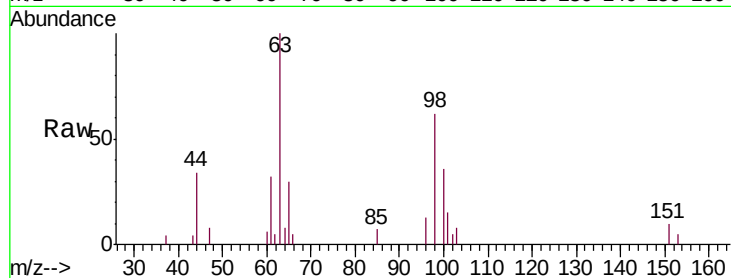
Tgt Ion: 101 Resp: 893

Ion Ratio Lower Upper

101 100

85 39.2 38.1 57.1

151 65.6 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

2.30

400

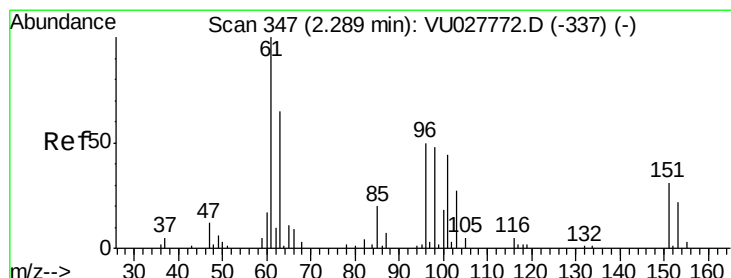
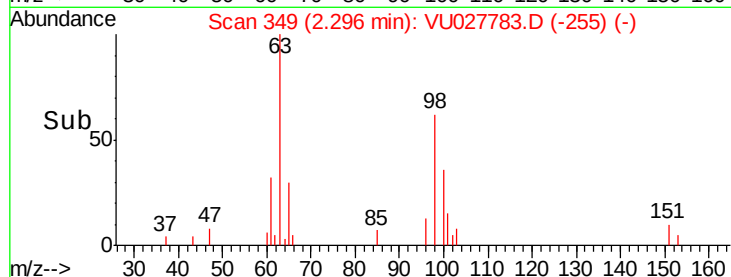
200

0

2.25

2.30

Time-->



#12

1,1-Dichloroethene

Concen: 0.327 ug/L

RT: 2.29 min Scan# 346

Delta R.T. -0.00 min

Lab File: VU027783.D

Acq: 24 Oct 2018 14:11

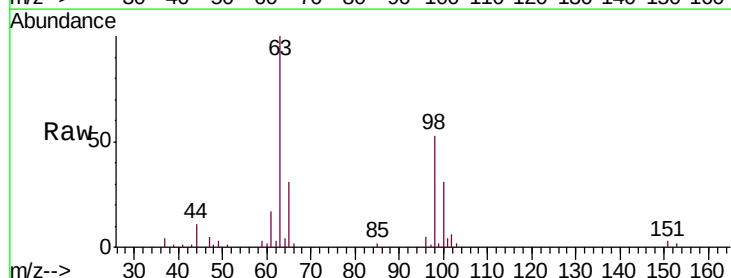
Tgt Ion: 96 Resp: 849

Ion Ratio Lower Upper

96 100

61 356.2 143.8 267.0#

63 2083.9 105.1 195.3#



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

20000

15000

10000

5000

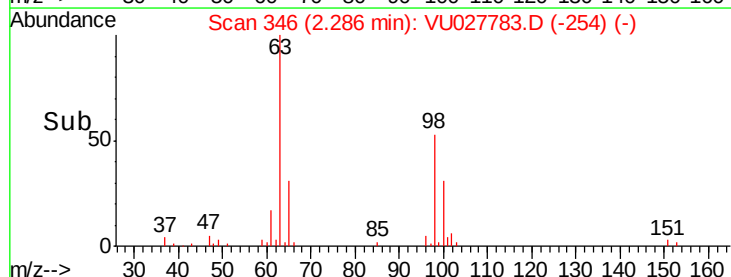
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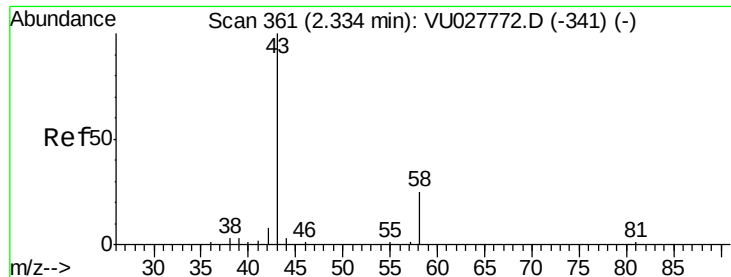
2.25

2.29

2.30

Time-->





#13

Acetone

Concen: 4.021 ug/L

RT: 2.35 min Scan# 366

Delta R.T. 0.02 min

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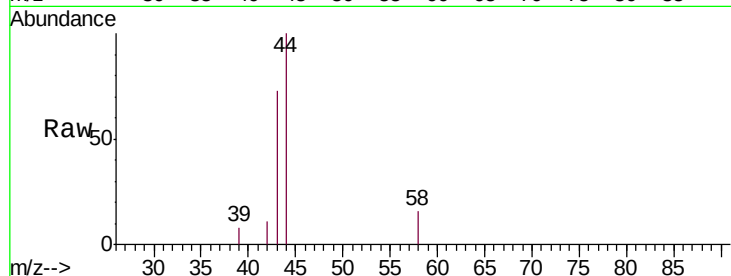
MDL07

Tgt Ion: 43 Resp: 2858

Ion Ratio Lower Upper

43 100

58 14.1 0.0 52.8



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0

2.35

800

600

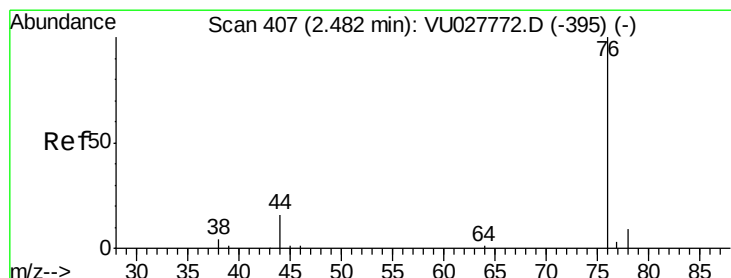
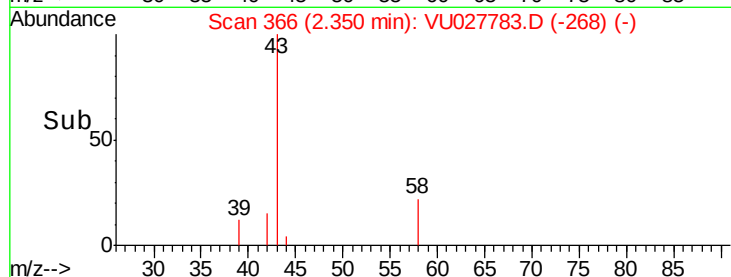
400

200

0

Time-->

2.30 2.35 2.40 2.45



#14

Carbon disulfide

Concen: 0.250 ug/L

RT: 2.48 min Scan# 407

Delta R.T. 0.00 min

Lab File: VU027783.D

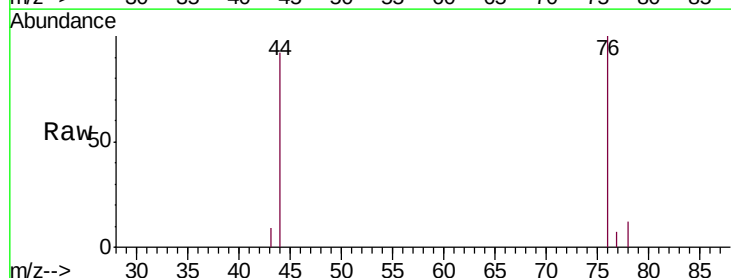
Acq: 24 Oct 2018 14:11

Tgt Ion: 76 Resp: 2224

Ion Ratio Lower Upper

76 100

78 12.3 7.4 11.0#



Abundance Ion 76.05 (75.75 to 76.75): VU0

Ion 78.00 (77.70 to 78.70): VU0

2.48

1500

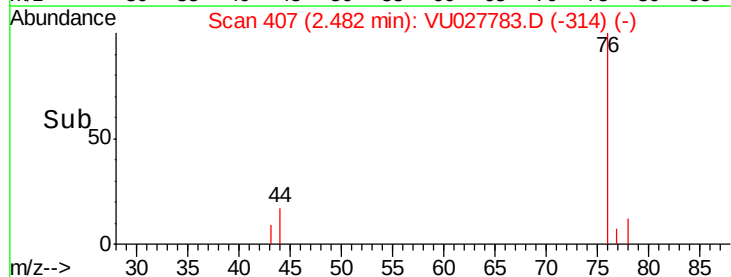
1000

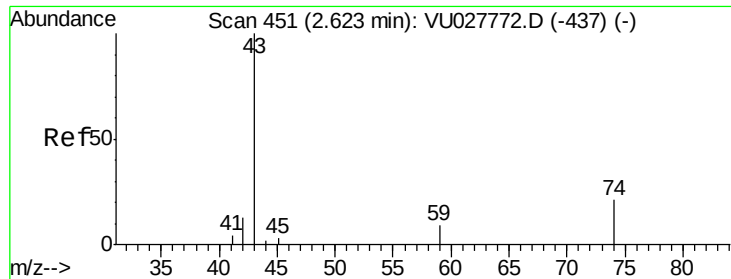
500

0

Time-->

2.45 2.50

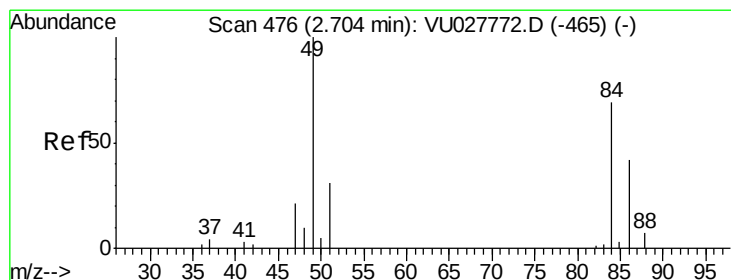
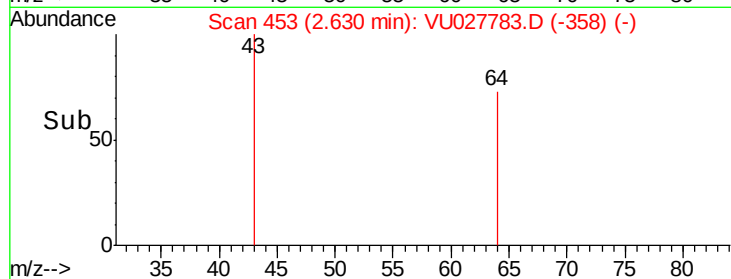
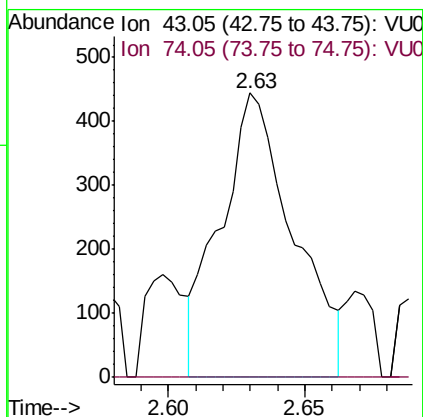
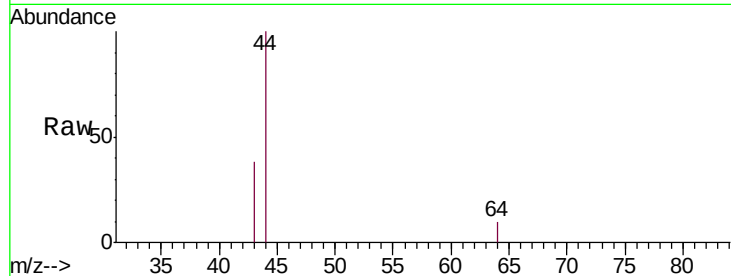




#15
Methyl Acetate
Concen: 0.412 ug/L
RT: 2.63 min Scan# 453
Delta R.T. 0.01 min
Lab File: VU027783.D
Acq: 24 Oct 2018 14:11

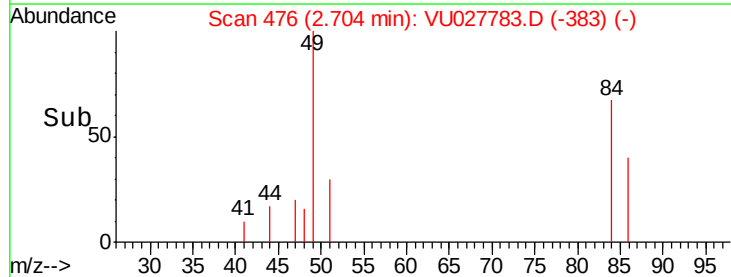
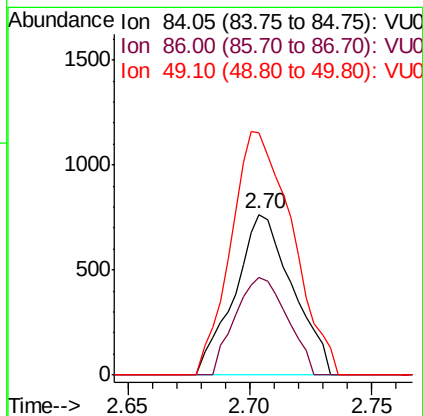
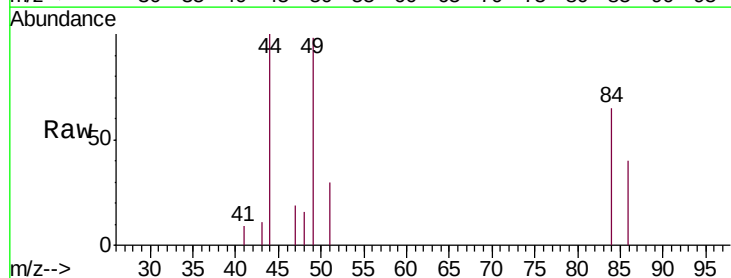
Instrument :
MSVOA_U
ClientSampled :
MDL07

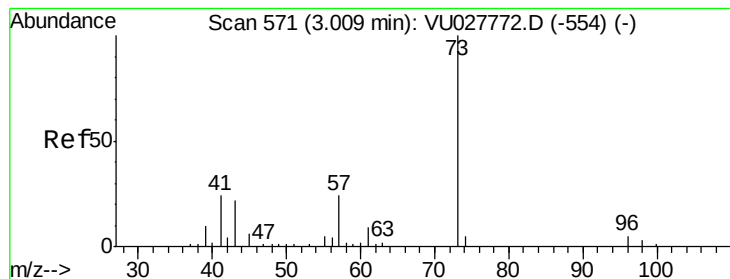
Tgt Ion: 43 Resp: 820
Ion Ratio Lower Upper
43 100
74 0.0 15.8 23.8#



#16
Methylene chloride
Concen: 0.411 ug/L
RT: 2.70 min Scan# 476
Delta R.T. 0.00 min
Lab File: VU027783.D
Acq: 24 Oct 2018 14:11

Tgt Ion: 84 Resp: 1256
Ion Ratio Lower Upper
84 100
86 60.6 42.8 79.4
49 150.3 101.4 188.4





#17

Methyl tert-butyl Ether

Concen: 0.225 ug/L

RT: 3.01 min Scan# 572

Delta R.T. 0.00 min

Lab File: VU027783.D

Acq: 24 Oct 2018 14:11

Instrument :

MSVOA_U

ClientSampleId :

MDL07

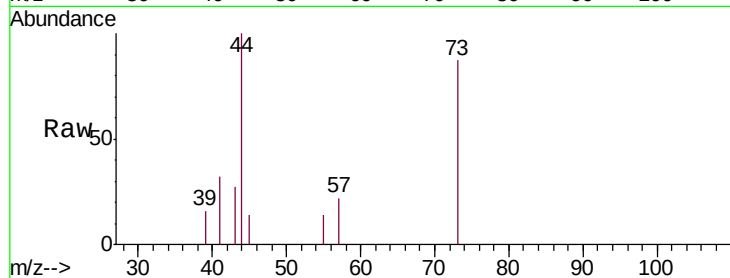
Tgt Ion: 73 Resp: 1869

Ion Ratio Lower Upper

73 100

43 29.0 18.6 28.0#

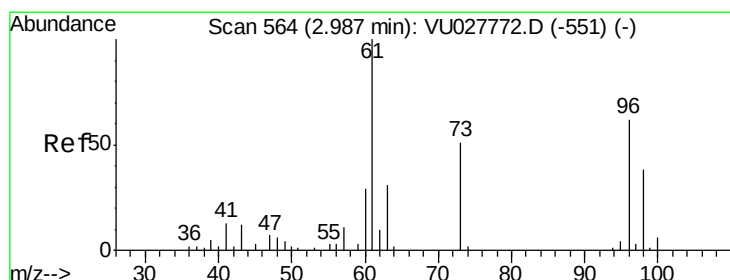
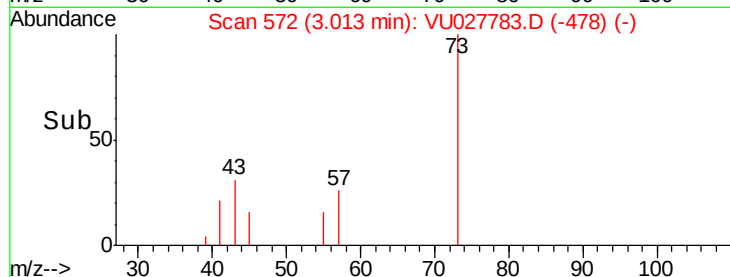
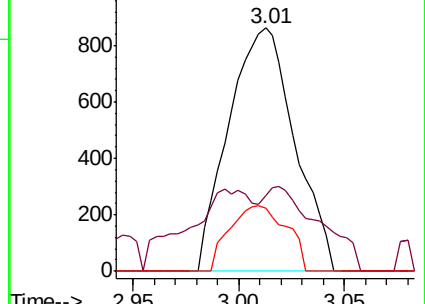
57 23.2 18.2 27.2



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: 0.276 ug/L

RT: 2.99 min Scan# 564

Delta R.T. 0.00 min

Lab File: VU027783.D

Acq: 24 Oct 2018 14:11

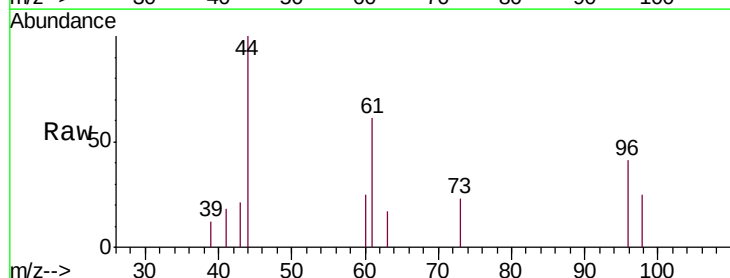
Tgt Ion: 96 Resp: 766

Ion Ratio Lower Upper

96 100

61 146.9 112.1 208.3

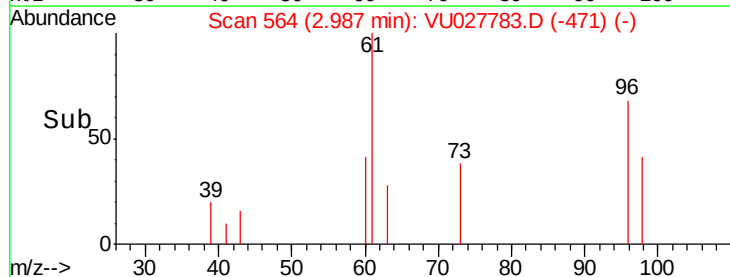
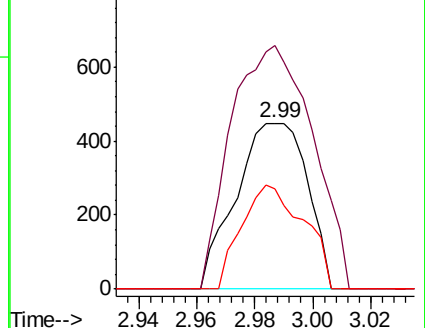
98 60.5 42.1 78.3

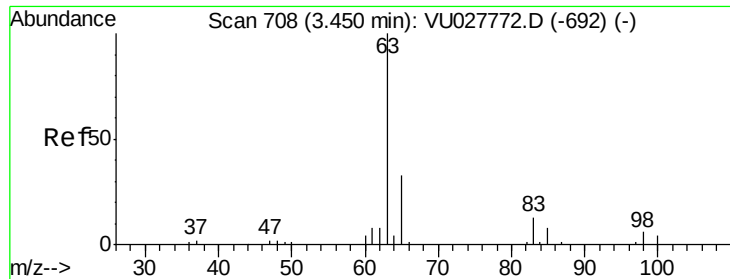


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 97.95 (97.65 to 98.65): VU0

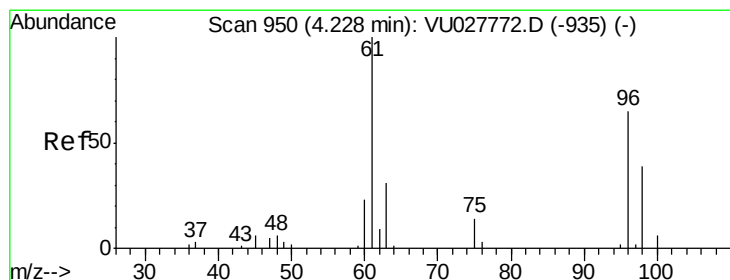
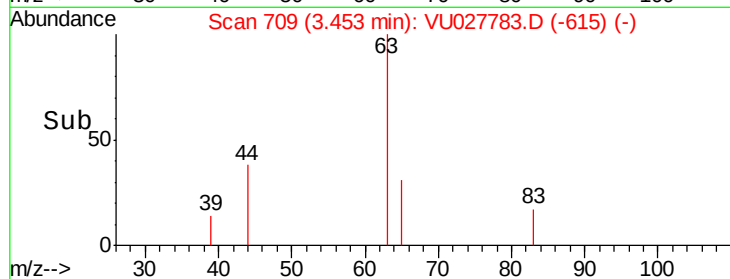
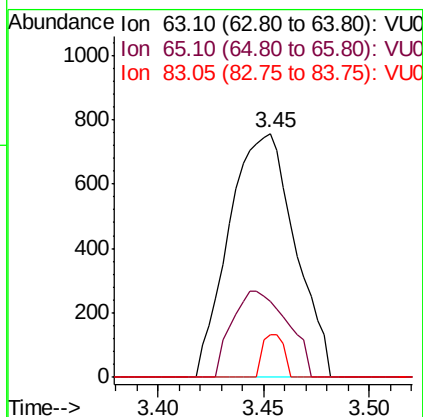
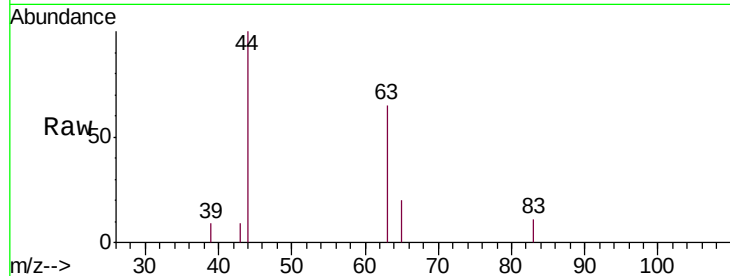




#19
 1,1-Dichloroethane
 Concen: 0.267 ug/L
 RT: 3.45 min Scan# 709
 Delta R.T. 0.00 min
 Lab File: VU027783.D
 Acq: 24 Oct 2018 14:11

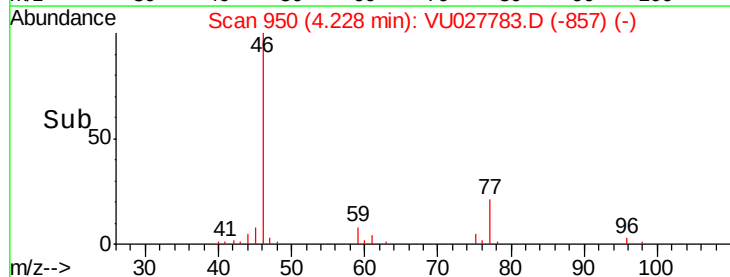
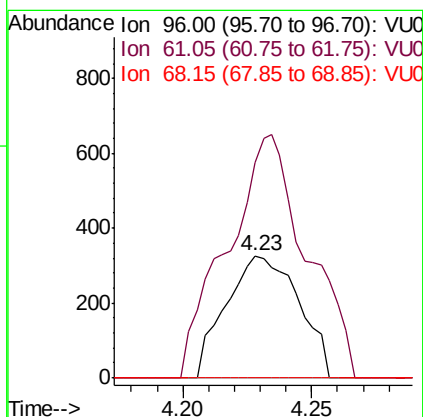
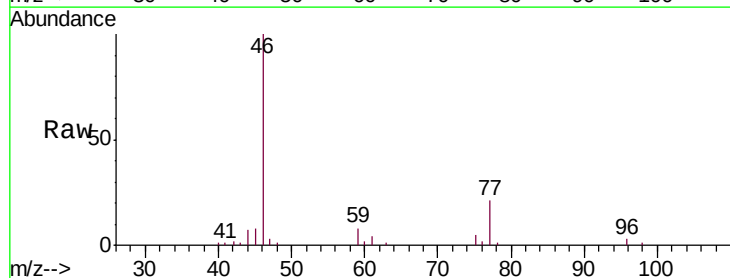
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL07

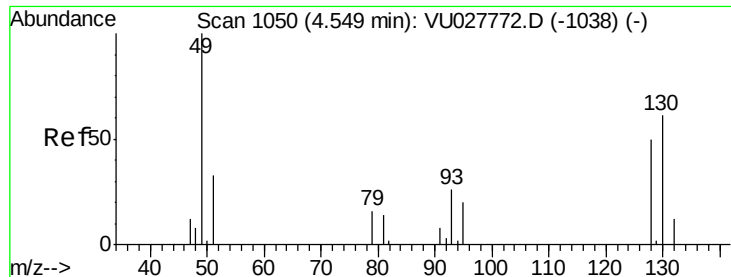
Tgt Ion: 63 Resp: 1643
 Ion Ratio Lower Upper
 63 100
 65 31.2 23.1 42.9
 83 17.3 9.2 17.0#



#22
 cis-1,2-Dichloroethene
 Concen: 0.195 ug/L
 RT: 4.23 min Scan# 950
 Delta R.T. 0.00 min
 Lab File: VU027783.D
 Acq: 24 Oct 2018 14:11

Tgt Ion: 96 Resp: 642
 Ion Ratio Lower Upper
 96 100
 61 176.1 107.2 199.0
 68 0.0 0.0 0.0

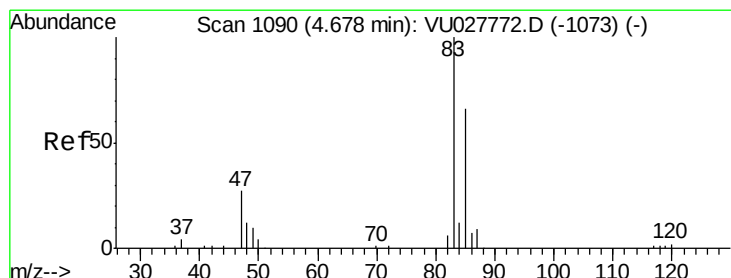
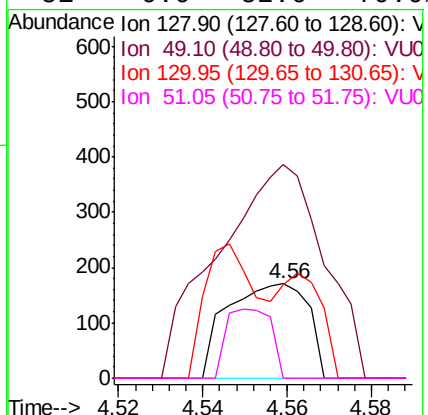
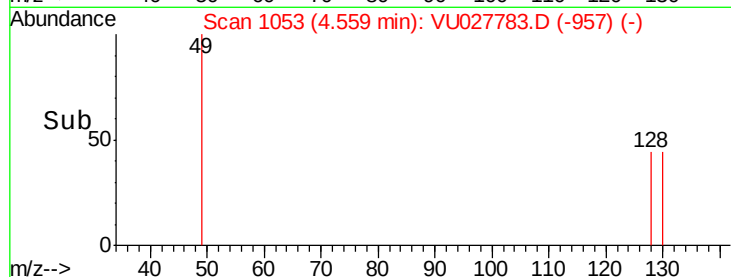
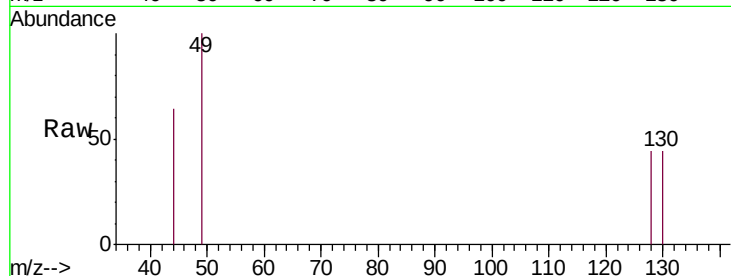




#23
Bromochloromethane
Concen: 0.168 ug/L
RT: 4.56 min Scan# 1053
Delta R.T. 0.01 min
Lab File: VU027783.D
Acq: 24 Oct 2018 14:11

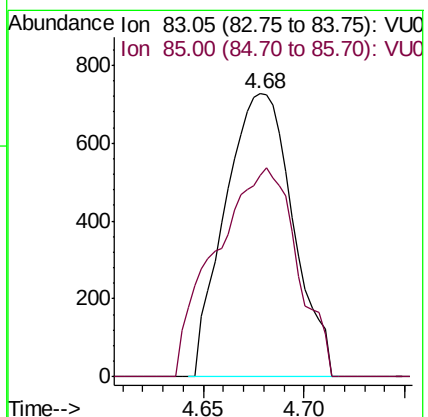
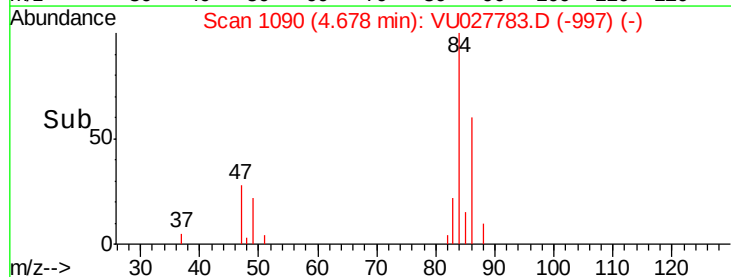
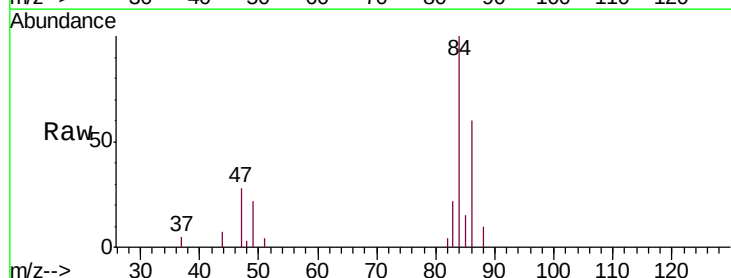
Instrument :
MSVOA_U
ClientSampleId :
MDL07

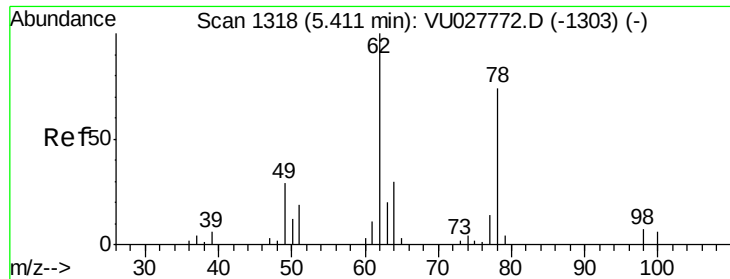
Tgt Ion: 128 Resp: 225
Ion Ratio Lower Upper
128 100
49 227.1 142.8 265.2
130 99.4 86.0 159.8
51 0.0 52.6 79.0#



#25
Chloroform
Concen: 0.275 ug/L
RT: 4.68 min Scan# 1090
Delta R.T. 0.00 min
Lab File: VU027783.D
Acq: 24 Oct 2018 14:11

Tgt Ion: 83 Resp: 1702
Ion Ratio Lower Upper
83 100
85 71.3 45.8 85.2

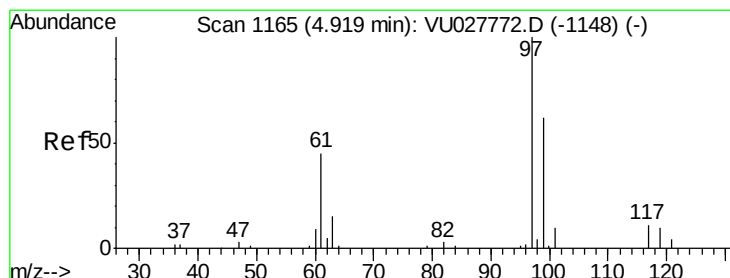
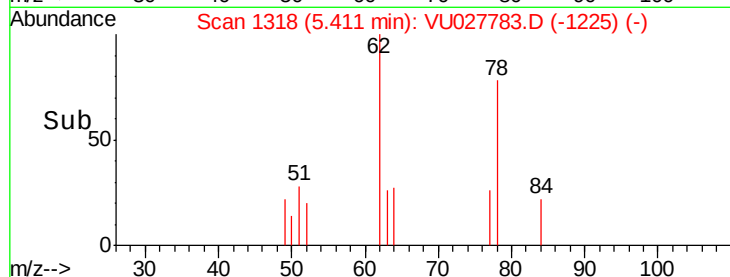
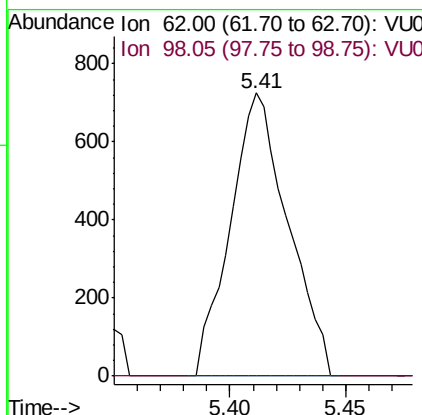
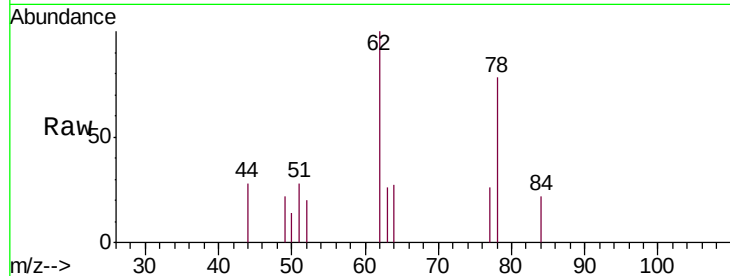




#27
 1,2-Dichloroethane
 Concen: 0.274 ug/L
 RT: 5.41 min Scan# 1318
 Delta R.T. 0.00 min
 Lab File: VU027783.D
 Acq: 24 Oct 2018 14:11

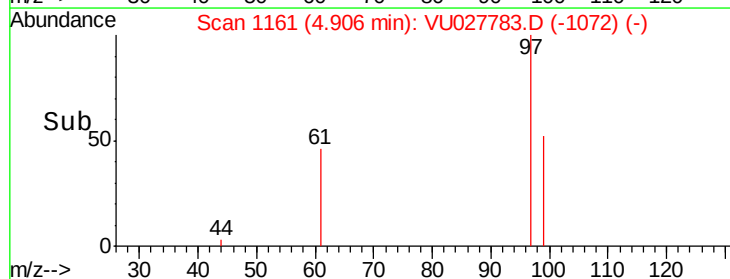
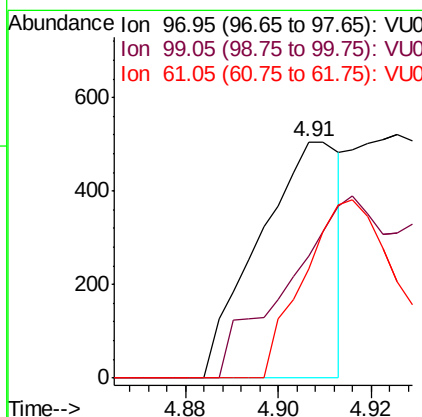
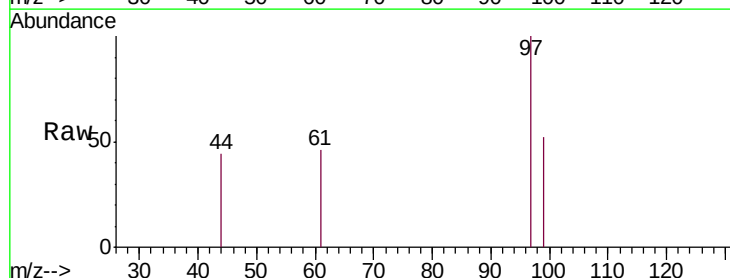
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL07

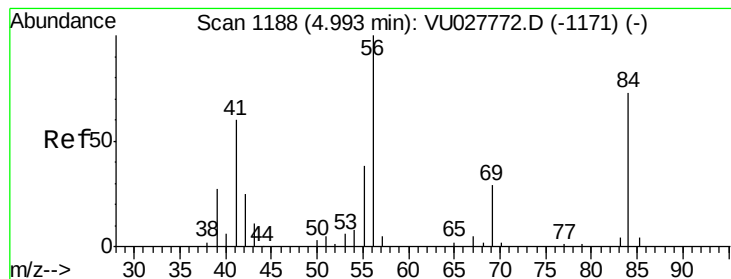
Tgt Ion: 62 Resp: 1252
 Ion Ratio Lower Upper
 62 100
 98 0.0 5.7 8.5#



#29
 1,1,1-Trichloroethane
 Concen: 0.108 ug/L
 RT: 4.91 min Scan# 1161
 Delta R.T. -0.01 min
 Lab File: VU027783.D
 Acq: 24 Oct 2018 14:11

Tgt Ion: 97 Resp: 614
 Ion Ratio Lower Upper
 97 100
 99 133.9 51.3 76.9#
 61 92.2 36.7 55.1#





#30

Cyclohexane

Concen: 0.240 ug/L

RT: 4.99 min Scan# 1188

Delta R.T. 0.00 min

Lab File: VU027783.D

Acq: 24 Oct 2018 14:11

Instrument :

MSVOA_U

ClientSampleId :

MDL07

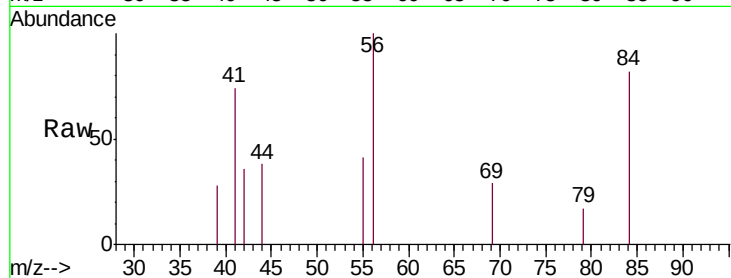
Tgt Ion: 56 Resp: 1522

Ion Ratio Lower Upper

56 100

69 20.8 22.2 33.4#

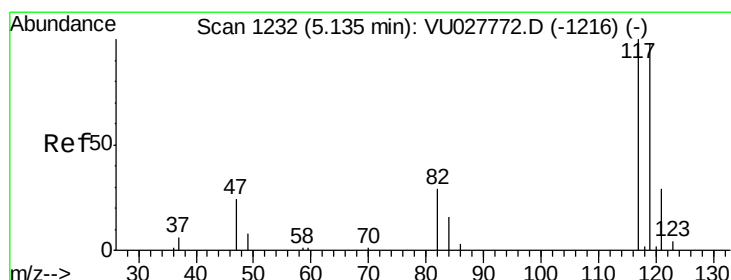
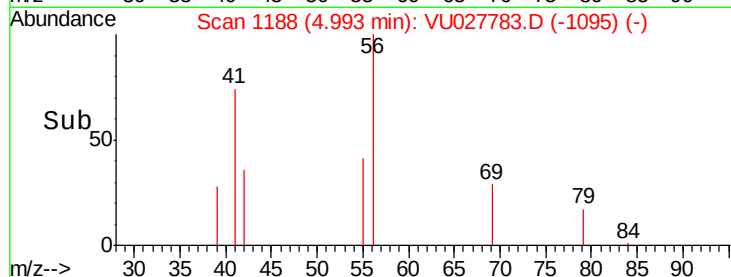
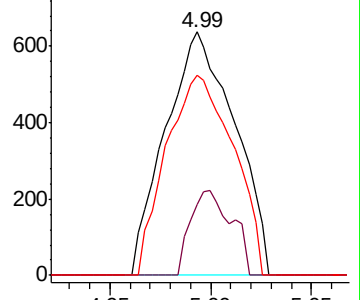
84 79.6 58.6 88.0



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: 0.218 ug/L

RT: 5.14 min Scan# 1233

Delta R.T. 0.00 min

Lab File: VU027783.D

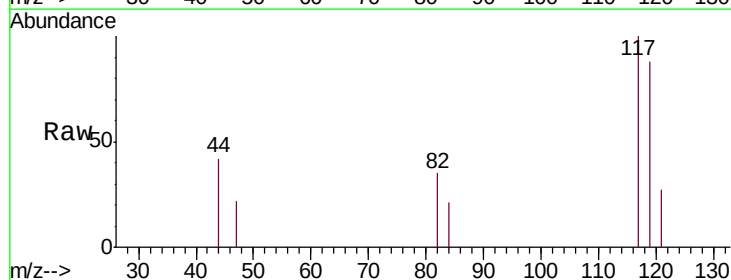
Acq: 24 Oct 2018 14:11

Tgt Ion: 117 Resp: 1060

Ion Ratio Lower Upper

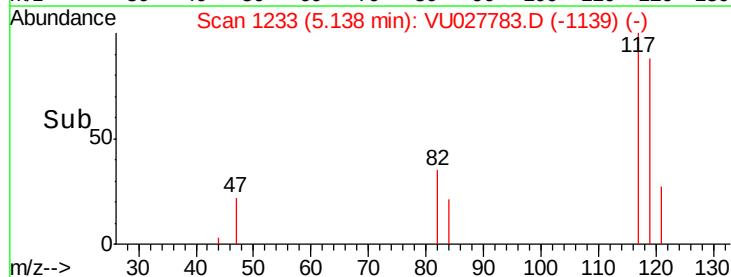
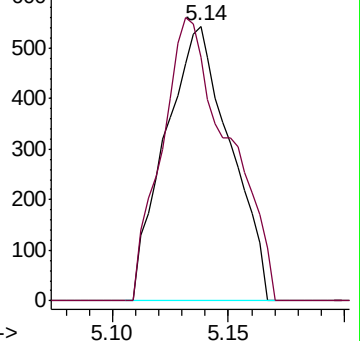
117 100

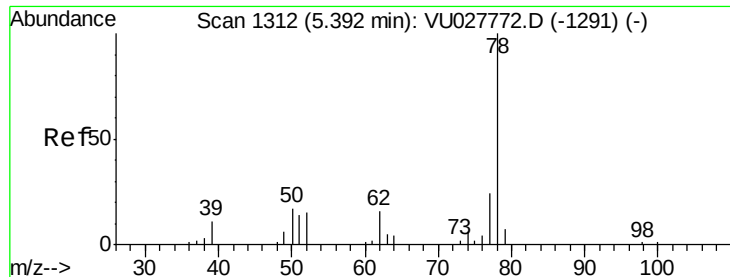
119 106.1 77.0 115.6



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V

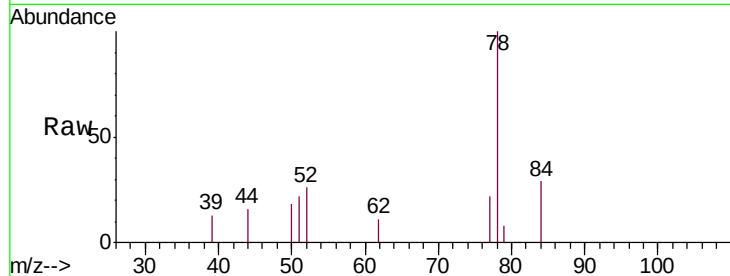




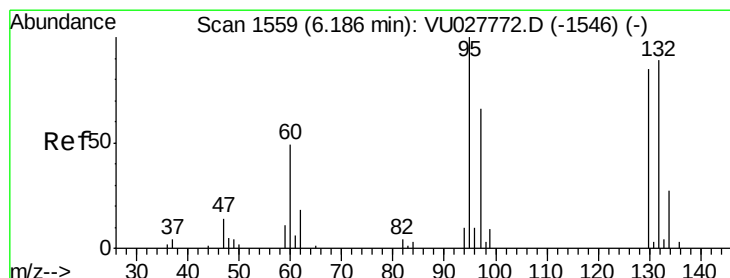
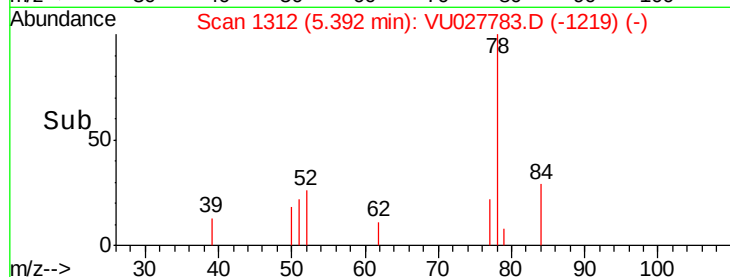
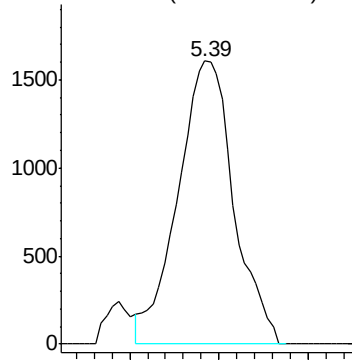
#33
Benzene
Concen: 0.268 ug/L
RT: 5.39 min Scan# 1312
Delta R.T. 0.00 min
Lab File: VU027783.D
Acq: 24 Oct 2018 14:11

Tgt Ion: 78 Resp: 3510

Instrument :
MSVOA_U
ClientSampled :
MDL07



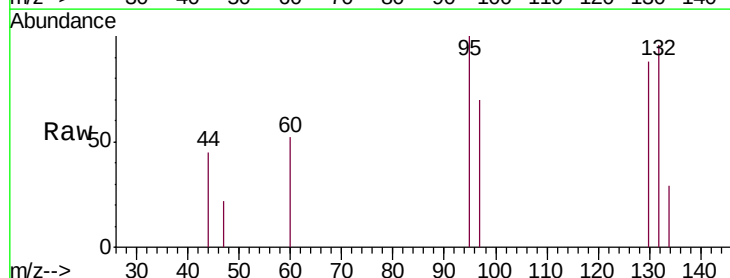
Abundance Ion 78.10 (77.80 to 78.80): VU0



#34
Trichloroethene
Concen: 0.250 ug/L
RT: 6.19 min Scan# 1559
Delta R.T. 0.00 min
Lab File: VU027783.D
Acq: 24 Oct 2018 14:11

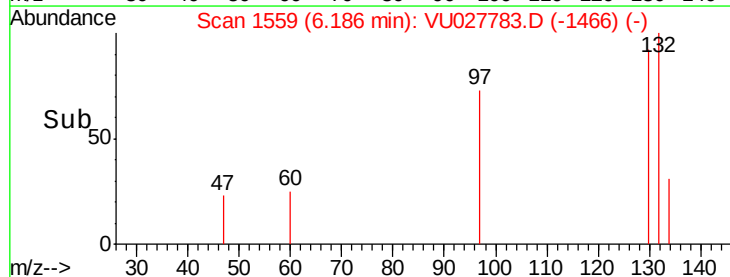
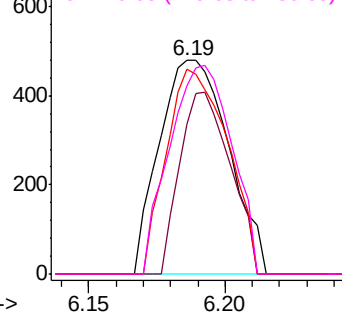
Tgt Ion: 95 Resp: 846

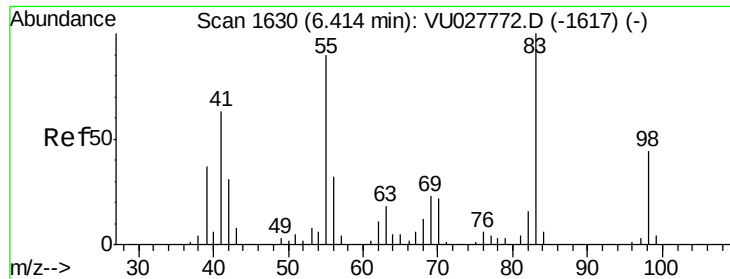
Ion	Ratio	Lower	Upper
95	100		
97	69.9	46.4	86.2
132	95.8	62.0	115.2
130	87.9	59.5	110.5



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

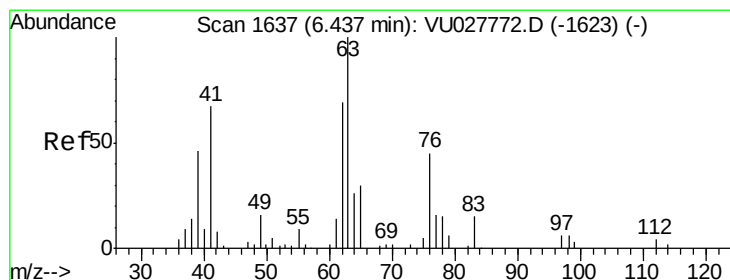
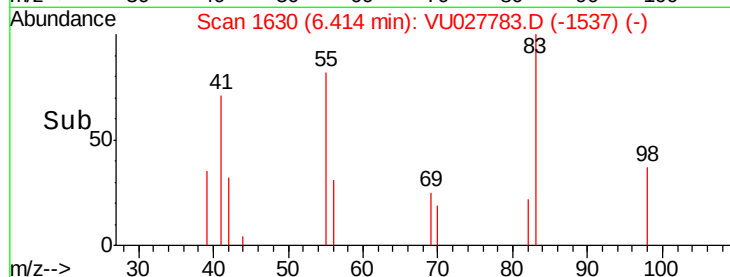
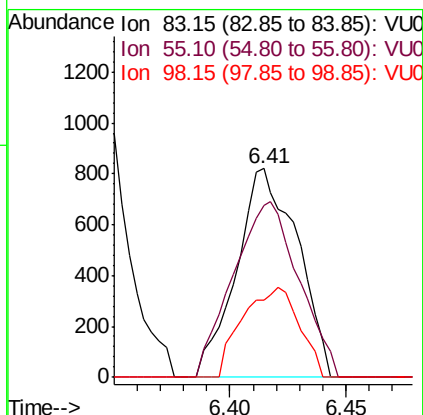
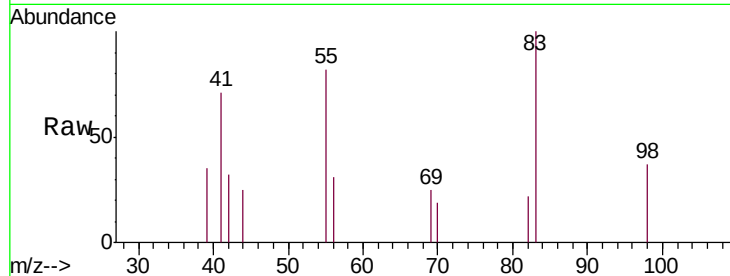




#35
Methylcyclohexane
Concen: 0.265 ug/L
RT: 6.41 min Scan# 1630
Delta R.T. 0.00 min
Lab File: VU027783.D
Acq: 24 Oct 2018 14:11

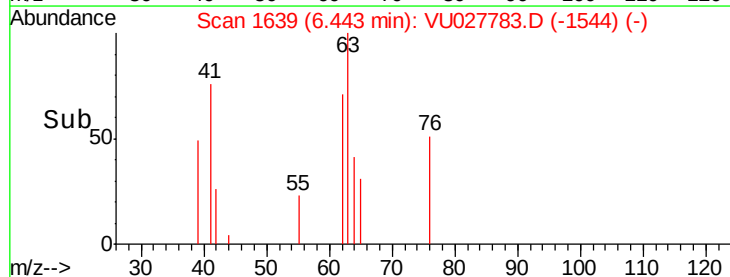
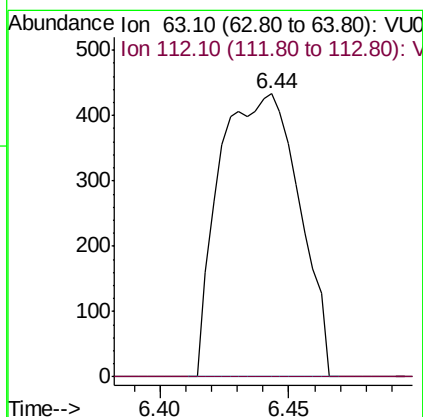
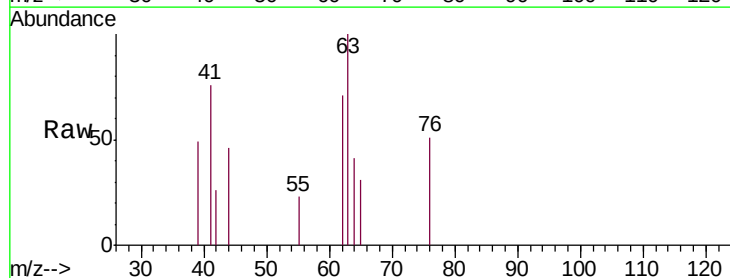
Instrument :
MSVOA_U
ClientSampleId :
MDL07

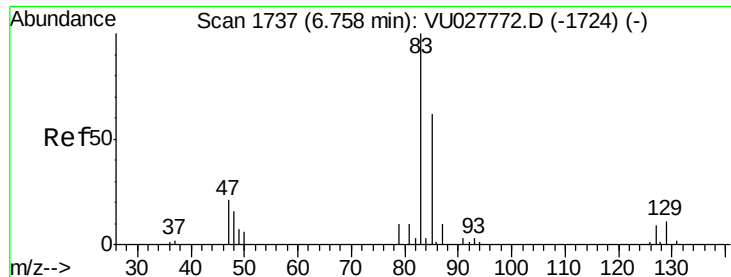
Tgt Ion: 83 Resp: 1502
Ion Ratio Lower Upper
83 100
55 90.6 71.5 107.3
98 39.9 35.4 53.0



#37
1,2-Dichloropropane
Concen: 0.242 ug/L
RT: 6.44 min Scan# 1639
Delta R.T. 0.01 min
Lab File: VU027783.D
Acq: 24 Oct 2018 14:11

Tgt Ion: 63 Resp: 931
Ion Ratio Lower Upper
63 100
112 0.0 2.7 4.1#

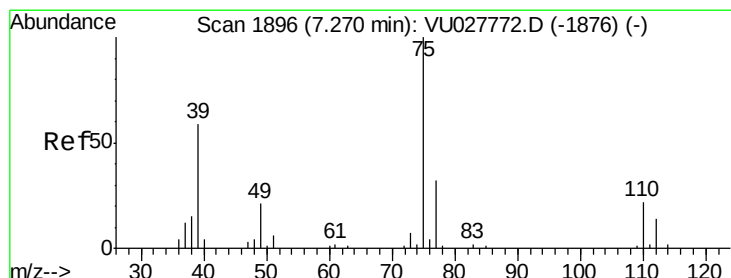
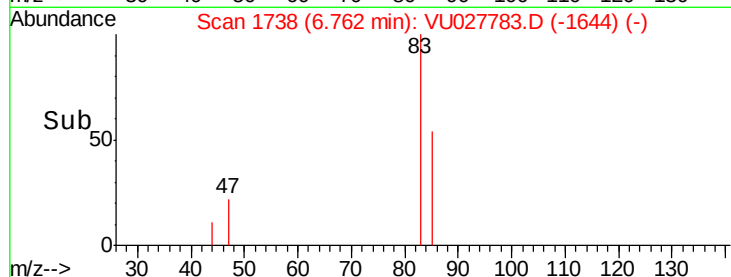
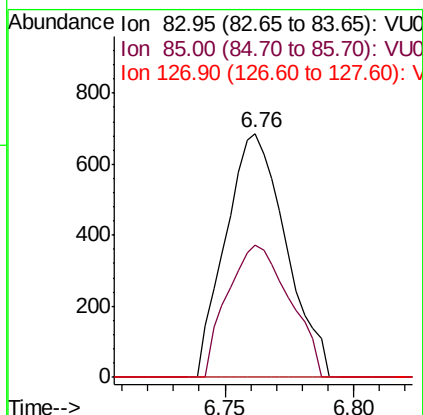
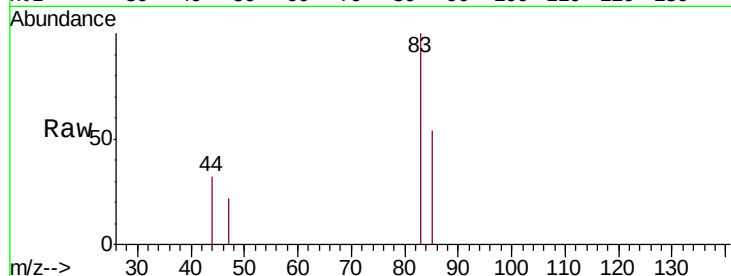




#38
 Bromodichloromethane
 Concen: 0.244 ug/L
 RT: 6.76 min Scan# 1738
 Delta R.T. 0.00 min
 Lab File: VU027783.D
 Acq: 24 Oct 2018 14:11

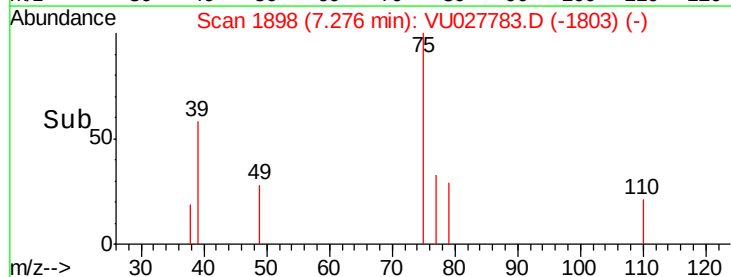
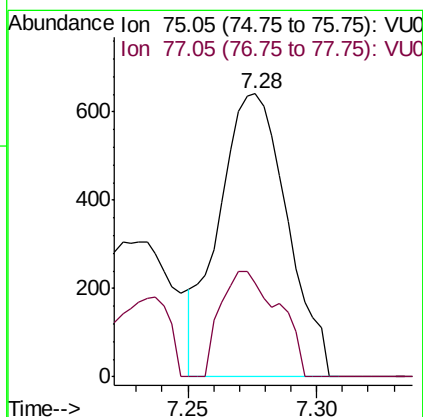
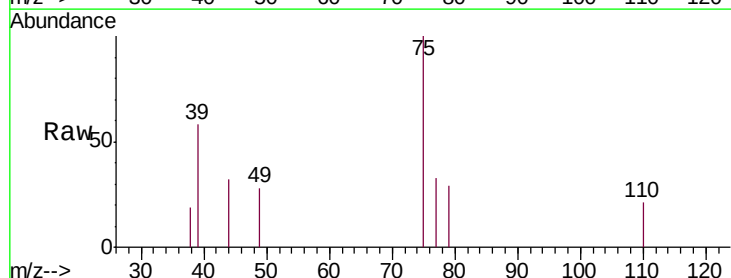
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL07

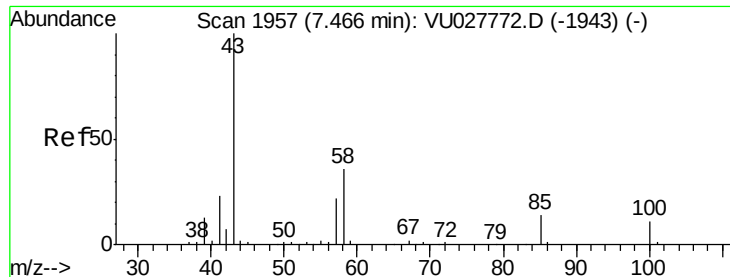
Tgt Ion: 83 Resp: 1118
 Ion Ratio Lower Upper
 83 100
 85 54.2 43.3 80.5
 127 0.0 7.2 10.8#



#39
 cis-1,3-Dichloropropene
 Concen: 0.215 ug/L
 RT: 7.28 min Scan# 1898
 Delta R.T. 0.01 min
 Lab File: VU027783.D
 Acq: 24 Oct 2018 14:11

Tgt Ion: 75 Resp: 1185
 Ion Ratio Lower Upper
 75 100
 77 33.1 22.5 41.7

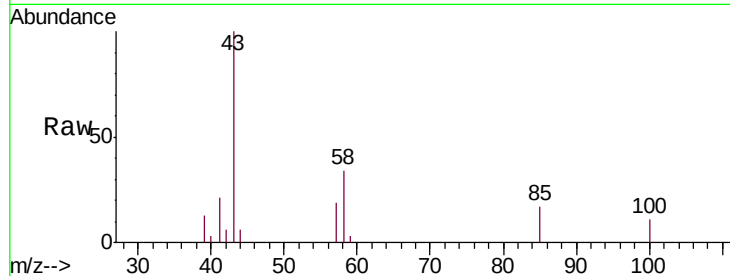




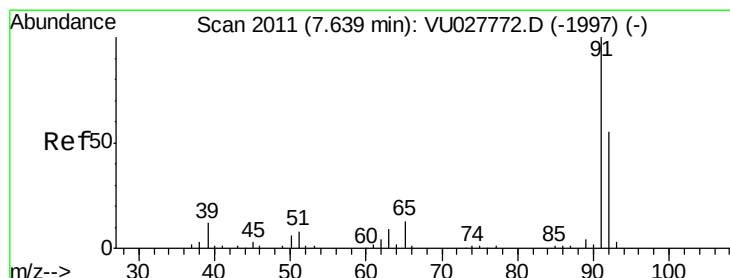
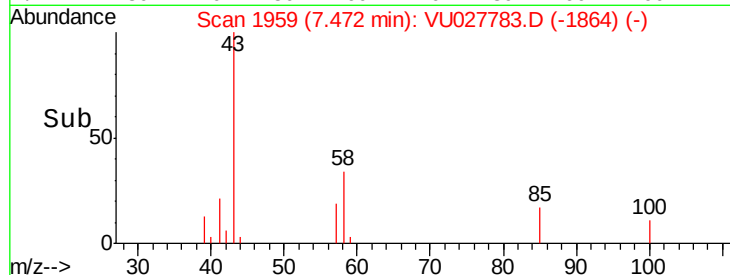
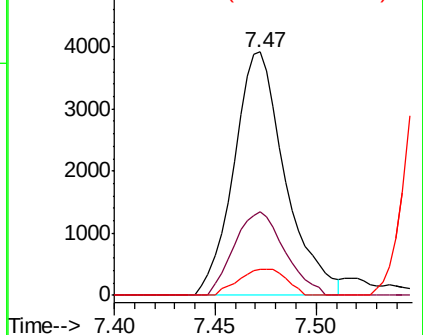
#40
 4-Methyl-2-pentanone
 Concen: 2.422 ug/L
 RT: 7.47 min Scan# 1959
 Delta R.T. 0.01 min
 Lab File: VU027783.D
 Acq: 24 Oct 2018 14:11

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL07

Tgt Ion: 43 Resp: 6953
 Ion Ratio Lower Upper
 43 100
 58 33.7 28.1 42.1
 100 0.0 8.7 13.1#

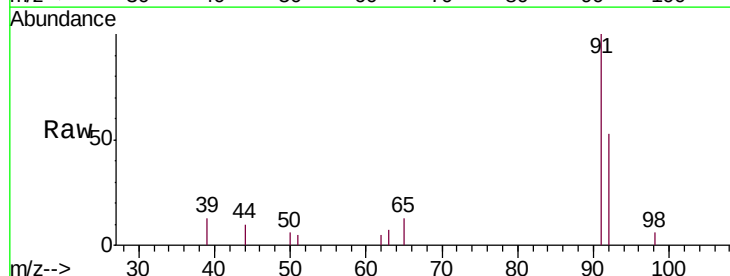


Abundance Ion 43.05 (42.75 to 43.75): VU0
 Ion 58.05 (57.75 to 58.75): VU0
 Ion 100.15 (99.85 to 100.85): VU0

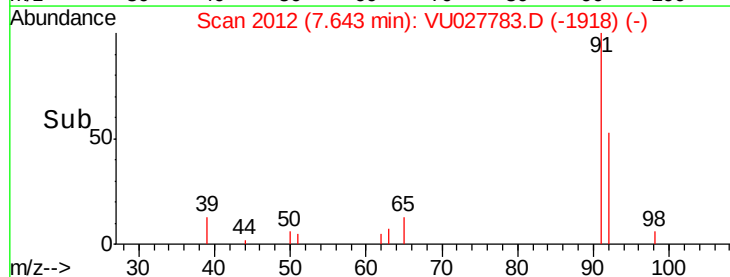
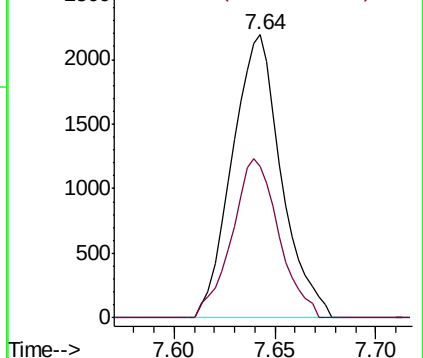


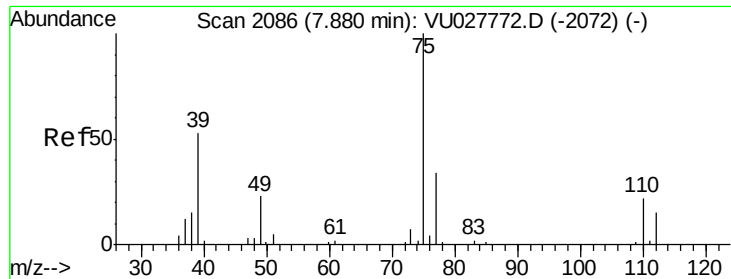
#42
 Toluene
 Concen: 0.265 ug/L
 RT: 7.64 min Scan# 2012
 Delta R.T. 0.00 min
 Lab File: VU027783.D
 Acq: 24 Oct 2018 14:11

Tgt Ion: 91 Resp: 3726
 Ion Ratio Lower Upper
 91 100
 92 53.4 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: 0.250 ug/L

RT: 7.89 min Scan# 2088

Delta R.T. 0.01 min

Lab File: VU027783.D

Acq: 24 Oct 2018 14:11

Instrument :

MSVOA_U

ClientSampleId :

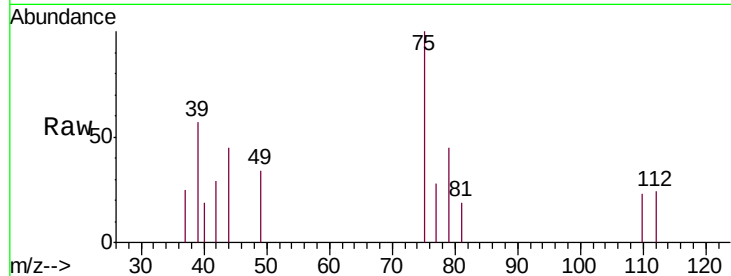
MDL07

Tgt Ion: 75 Resp: 1160

Ion Ratio Lower Upper

75 100

77 28.0 23.5 43.7



Abundance Ion 75.05 (74.75 to 75.75): VU027772.D (-2072) (-)

Ion 77.05 (76.75 to 77.75): VU027772.D (-2072) (-)

800

600

400

200

0

7.85

7.90

7.95

8.00

8.05

8.10

8.15

8.20

8.25

8.30

8.35

8.40

8.45

8.50

8.55

8.60

8.65

8.70

8.75

8.80

8.85

8.90

8.95

9.00

9.05

9.10

9.15

9.20

9.25

9.30

9.35

9.40

9.45

9.50

9.55

9.60

9.65

9.70

9.75

9.80

9.85

9.90

9.95

10.00

10.05

10.10

10.15

10.20

10.25

10.30

10.35

10.40

10.45

10.50

10.55

10.60

10.65

10.70

10.75

10.80

10.85

10.90

10.95

11.00

11.05

11.10

11.15

11.20

11.25

11.30

11.35

11.40

11.45

11.50

11.55

11.60

11.65

11.70

11.75

11.80

11.85

11.90

11.95

12.00

12.05

12.10

12.15

12.20

12.25

12.30

12.35

12.40

12.45

12.50

12.55

12.60

12.65

12.70

12.75

12.80

12.85

12.90

12.95

13.00

13.05

13.10

13.15

13.20

13.25

13.30

13.35

13.40

13.45

13.50

13.55

13.60

13.65

13.70

13.75

13.80

13.85

13.90

13.95

14.00

14.05

14.10

14.15

14.20

14.25

14.30

14.35

14.40

14.45

14.50

14.55

14.60

14.65

14.70

14.75

14.80

14.85

14.90

14.95

15.00

15.05

15.10

15.15

15.20

15.25

15.30

15.35

15.40

15.45

15.50

15.55

15.60

15.65

15.70

15.75

15.80

15.85

15.90

15.95

16.00

16.05

16.10

16.15

16.20

16.25

16.30

16.35

16.40

16.45

16.50

16.55

16.60

16.65

16.70

16.75

16.80

16.85

16.90

16.95

17.00

17.05

17.10

17.15

17.20

17.25

17.30

17.35

17.40

17.45

17.50

17.55

17.60

17.65

17.70

17.75

17.80

17.85

17.90

17.95

18.00

18.05

18.10

18.15

18.20

18.25

18.30

18.35

18.40

18.45

18.50

18.55

18.60

18.65

18.70

18.75

18.80

18.85

18.90

18.95

19.00

19.05

19.10

19.15

19.20

19.25

19.30

19.35

19.40

19.45

19.50

19.55

19.60

19.65

19.70

19.75

19.80

19.85

19.90

19.95

20.00

20.05

20.10

20.15

20.20

20.25

20.30

20.35

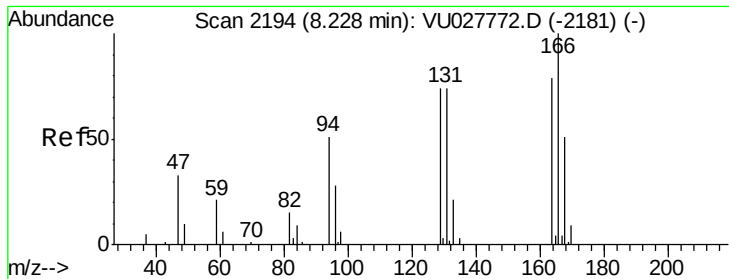
20.40

20.45

20.50

20.55

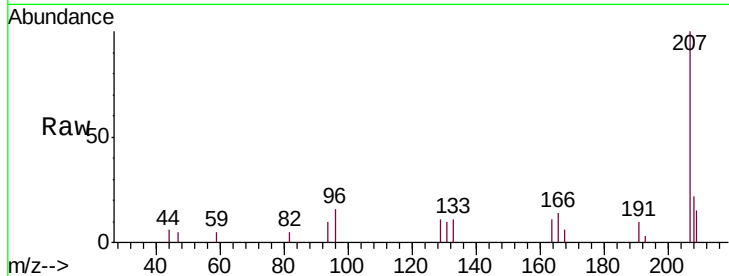
20.60



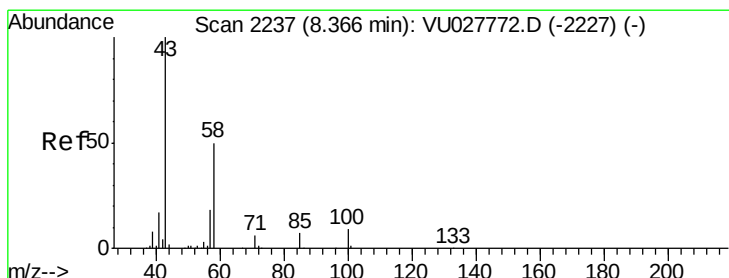
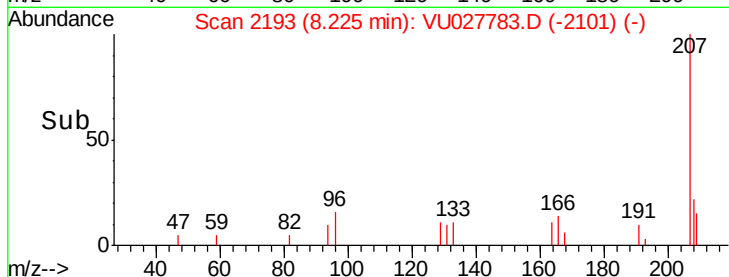
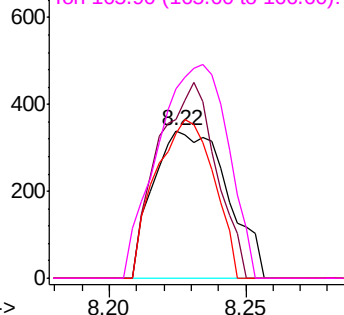
#47
Tetrachloroethene
Concen: 0.231 ug/L
RT: 8.22 min Scan# 2193
Delta R.T. -0.00 min
Lab File: VU027783.D
Acq: 24 Oct 2018 14:11

Instrument :
MSVOA_U
ClientSampleId :
MDL07

Tgt Ion:164 Resp: 637
Ion Ratio Lower Upper
164 100
129 107.4 65.6 121.8
131 97.9 65.0 120.8
166 128.6 88.3 164.1

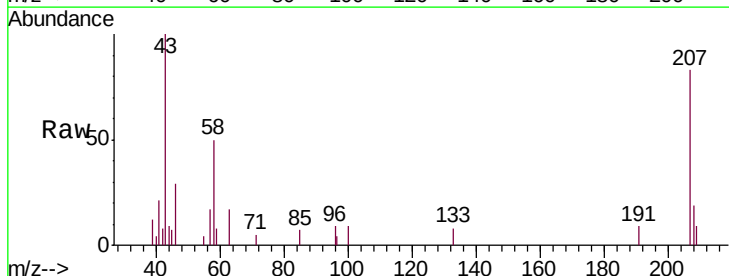


Abundance Ion 163.90 (163.60 to 164.60): V
Ion 128.95 (128.65 to 129.65): V
Ion 130.95 (130.65 to 131.65): V
Ion 165.90 (165.60 to 166.60): V

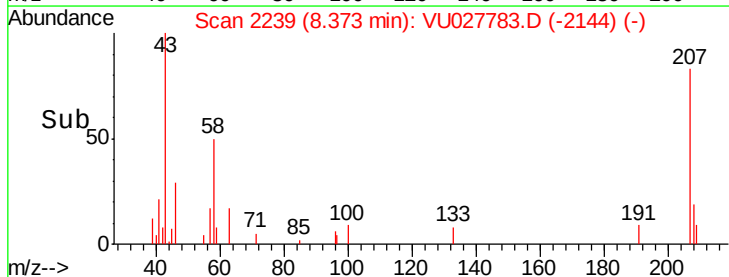
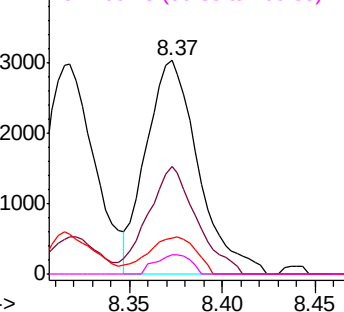


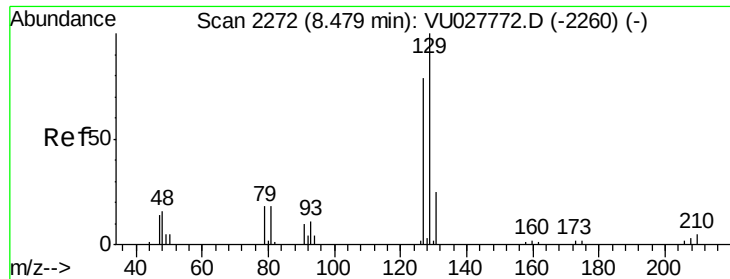
#48
2-Hexanone
Concen: 2.901 ug/L
RT: 8.37 min Scan# 2239
Delta R.T. 0.01 min
Lab File: VU027783.D
Acq: 24 Oct 2018 14:11

Tgt Ion: 43 Resp: 5918
Ion Ratio Lower Upper
43 100
58 47.3 39.4 59.0
57 16.2 13.8 20.8
100 6.0 6.7 10.1#



Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0





#49

Dibromochloromethane

Concen: 0.224 ug/L

RT: 8.48 min Scan# 2272

Delta R.T. 0.00 min

Lab File: VU027783.D

Acq: 24 Oct 2018 14:11

Instrument :

MSVOA_U

ClientSampleId :

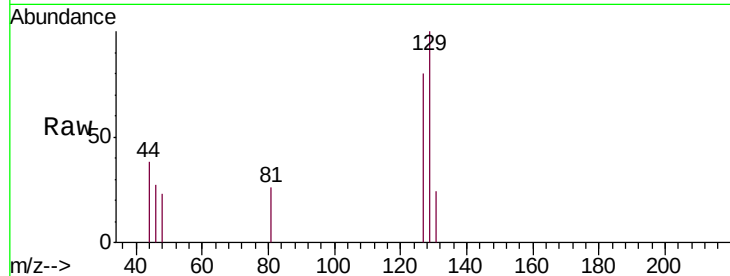
MDL07

Tgt Ion:129 Resp: 661

Ion Ratio Lower Upper

129 100

127 79.5 55.2 102.4



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V

8.48

400

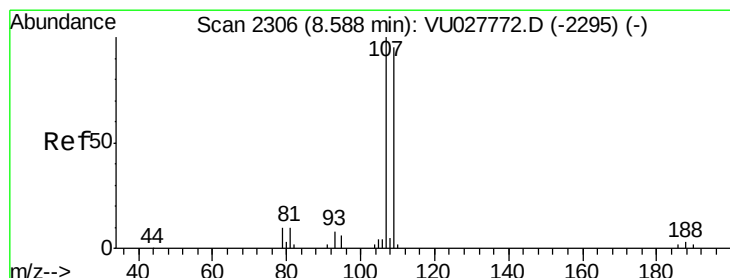
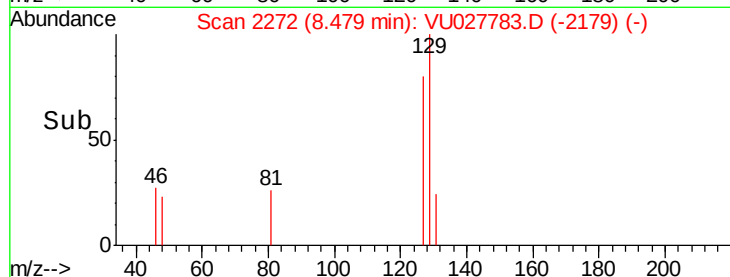
300

200

100

0

Time-->



#50

1,2-Dibromoethane

Concen: 0.223 ug/L

RT: 8.59 min Scan# 2307

Delta R.T. 0.00 min

Lab File: VU027783.D

Acq: 24 Oct 2018 14:11

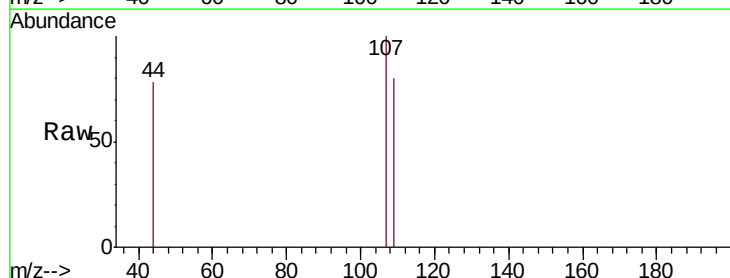
Tgt Ion:107 Resp: 503

Ion Ratio Lower Upper

107 100

109 80.3 66.3 123.1

188 0.0 2.6 3.8#



Abundance Ion 106.95 (106.65 to 107.65): V

Ion 109.00 (108.70 to 109.70): V

Ion 187.90 (187.60 to 188.60): V

8.59

400

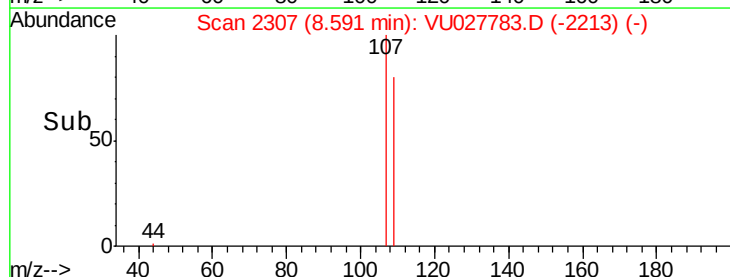
300

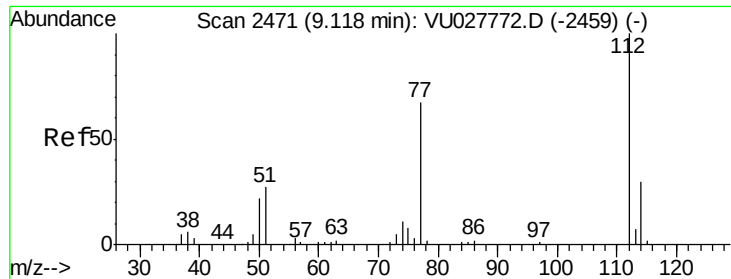
200

100

0

Time-->

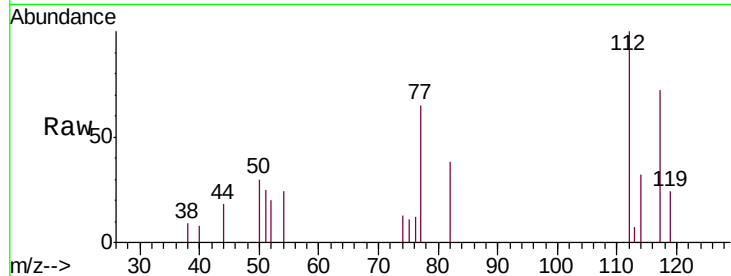




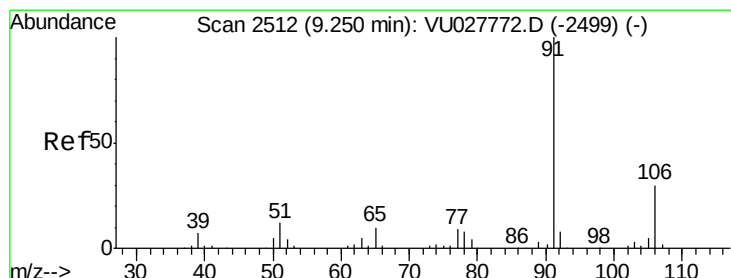
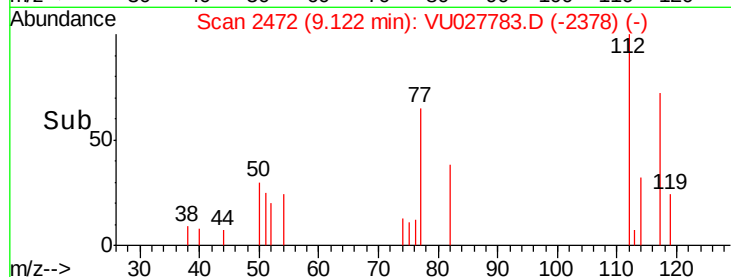
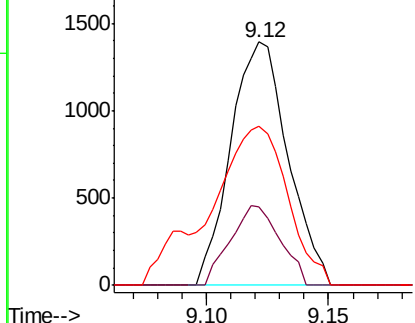
#51
Chlorobenzene
Concen: 0.261 ug/L
RT: 9.12 min Scan# 2472
Delta R.T. 0.00 min
Lab File: VU027783.D
Acq: 24 Oct 2018 14:11

Instrument :
MSVOA_U
ClientSampleId :
MDL07

Tgt Ion: 112 Resp: 2266
Ion Ratio Lower Upper
112 100
114 32.3 21.2 39.4
77 65.4 54.2 81.4

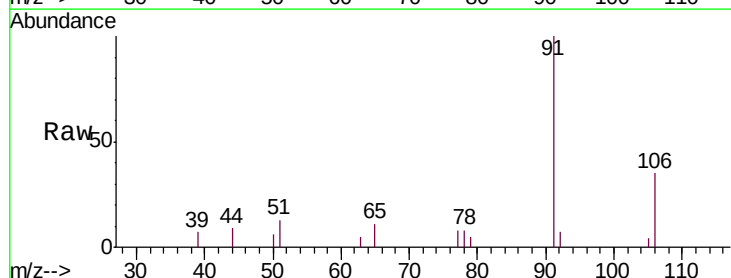


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): V

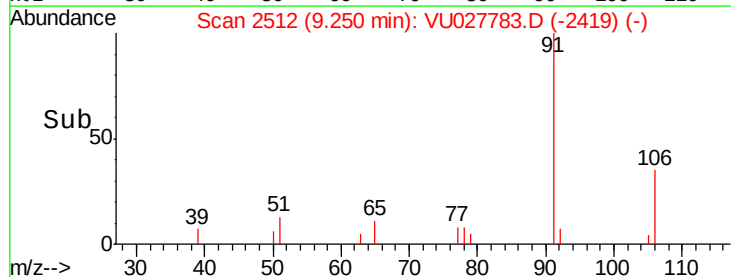
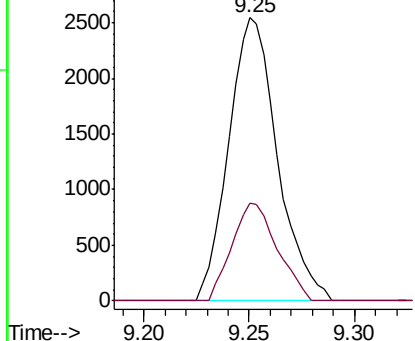


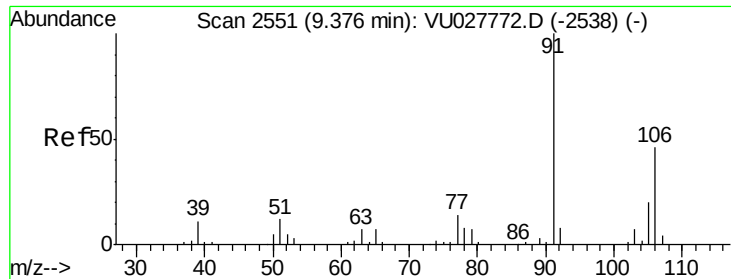
#52
Ethylbenzene
Concen: 0.250 ug/L
RT: 9.25 min Scan# 2512
Delta R.T. 0.00 min
Lab File: VU027783.D
Acq: 24 Oct 2018 14:11

Tgt Ion: 91 Resp: 4077
Ion Ratio Lower Upper
91 100
106 34.5 20.6 38.4



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





#53

m,p-xylene

Concen: 0.249 ug/L

RT: 9.38 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VU027783.D

Acq: 24 Oct 2018 14:11

Instrument :

MSVOA_U

ClientSampleId :

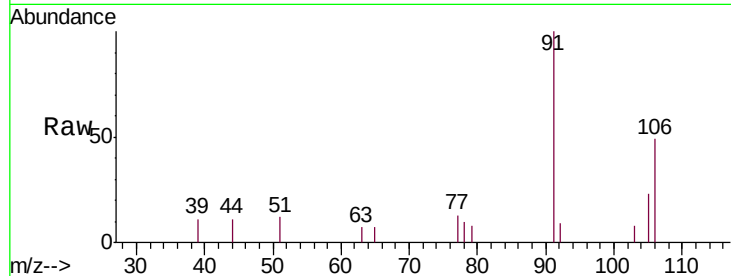
MDL07

Tgt Ion:106 Resp: 1443

Ion Ratio Lower Upper

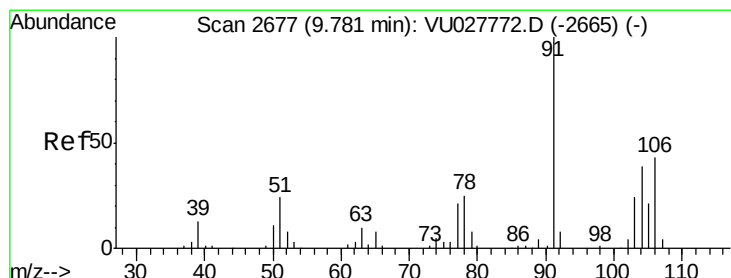
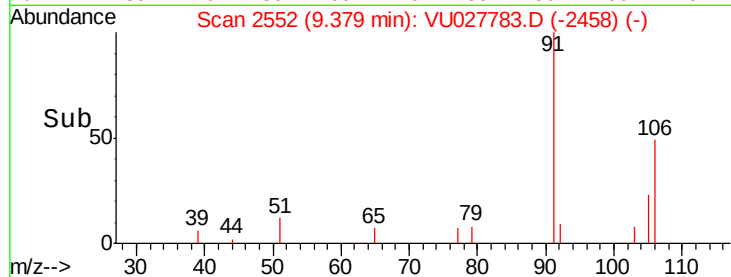
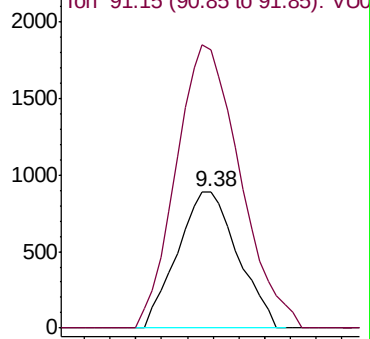
106 100

91 203.8 154.1 286.3



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#54

o-xylene

Concen: 0.247 ug/L

RT: 9.78 min Scan# 2676

Delta R.T. -0.00 min

Lab File: VU027783.D

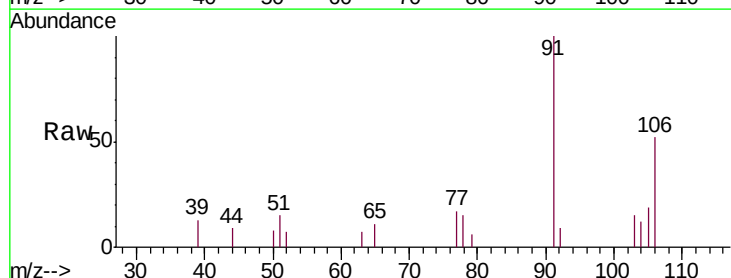
Acq: 24 Oct 2018 14:11

Tgt Ion:106 Resp: 1395

Ion Ratio Lower Upper

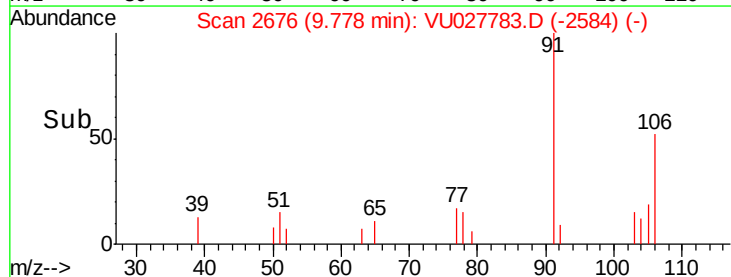
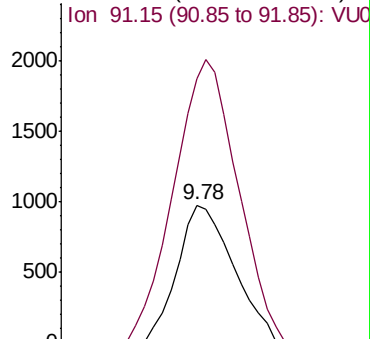
106 100

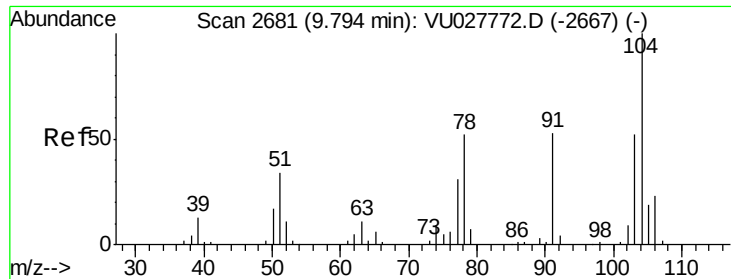
91 191.7 161.3 299.7



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0





#55

Styrene

Concen: 0.234 ug/L

RT: 9.80 min Scan# 2682

Delta R.T. 0.00 min

Lab File: VU027783.D

Acq: 24 Oct 2018 14:11

Instrument :

MSVOA_U

ClientSampled :

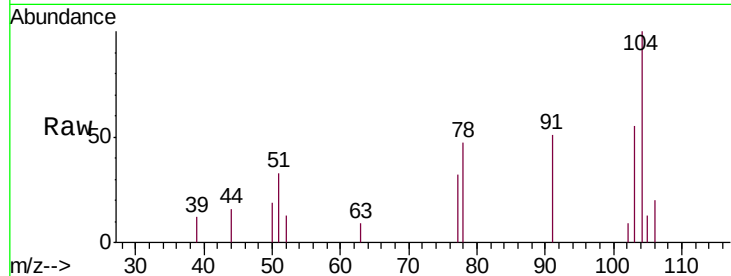
MDL07

Tgt Ion:104 Resp: 2245

Ion Ratio Lower Upper

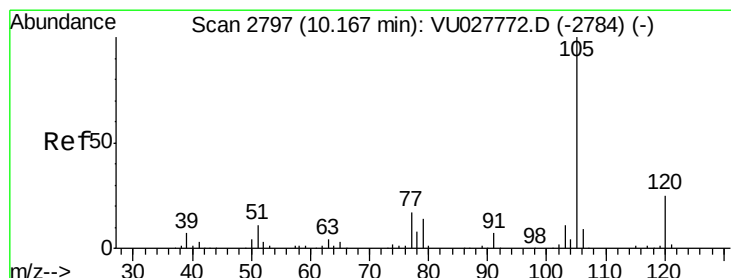
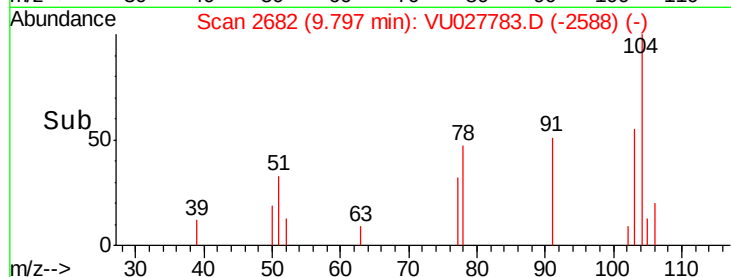
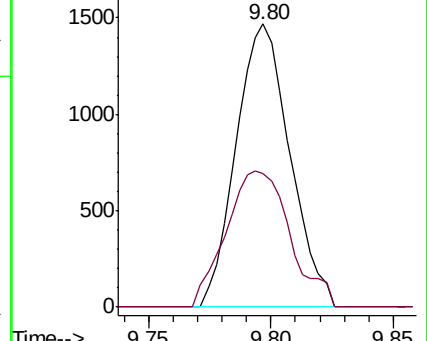
104 100

78 47.1 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: 0.239 ug/L

RT: 10.17 min Scan# 2798

Delta R.T. 0.00 min

Lab File: VU027783.D

Acq: 24 Oct 2018 14:11

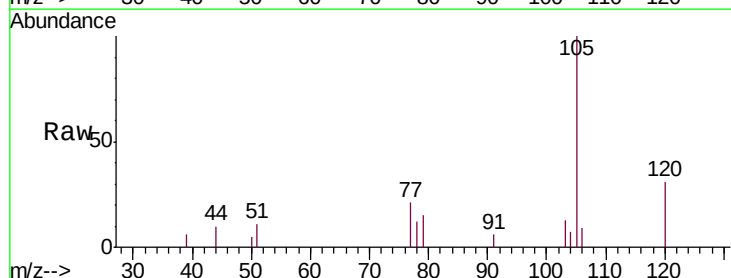
Tgt Ion:105 Resp: 3739

Ion Ratio Lower Upper

105 100

120 25.0 19.9 29.9

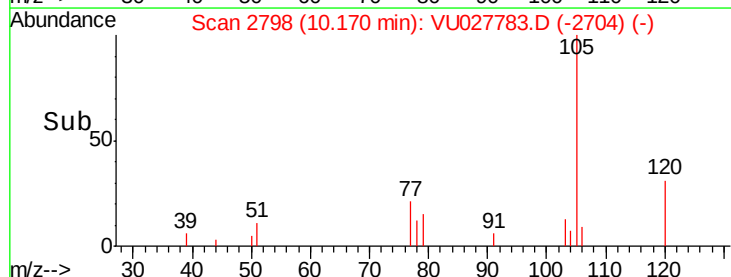
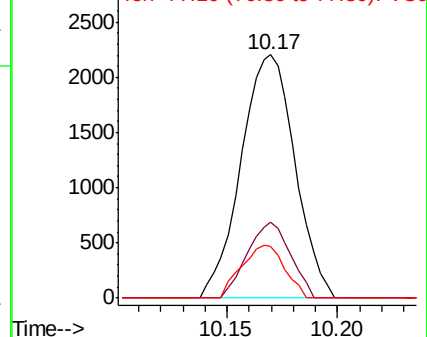
77 17.3 13.7 20.5

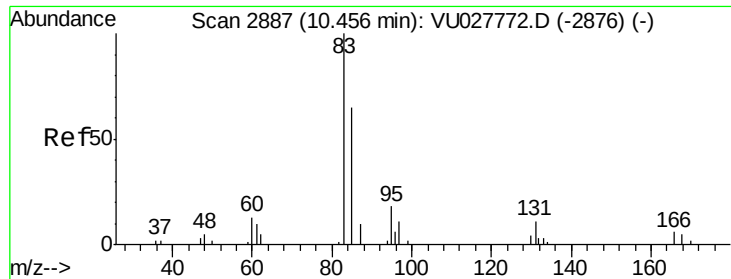


Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): VU0





#58

1,1,2,2-Tetrachloroethane

Concen: 0.249 ug/L

RT: 10.46 min Scan# 2888

Delta R.T. 0.00 min

Lab File: VU027783.D

Acq: 24 Oct 2018 14:11

Instrument :

MSVOA_U

ClientSampleId :

MDL07

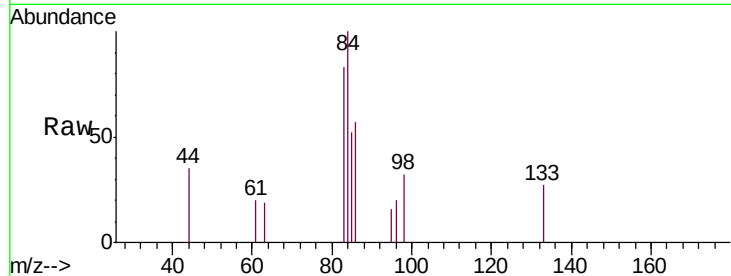
Tgt Ion: 83 Resp: 758

Ion Ratio Lower Upper

83 100

85 62.4 45.5 84.5

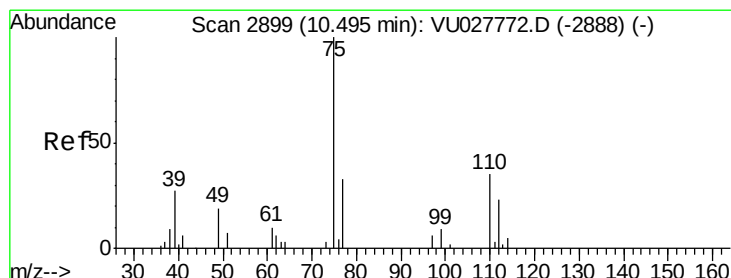
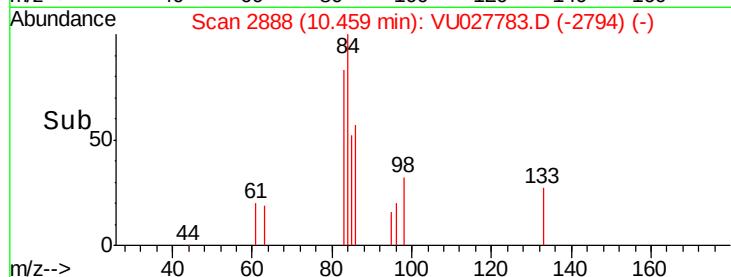
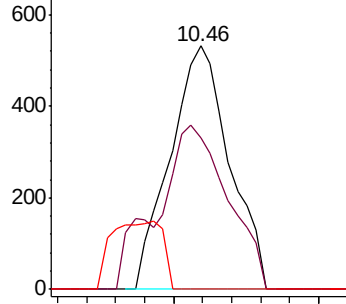
131 0.0 8.8 13.2#



Abundance Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 130.95 (130.65 to 131.65): V



#59

1,2,3-Trichloropropane

Concen: 1.349 ug/L

RT: 11.48 min Scan# 3207

Delta R.T. 0.99 min

Lab File: VU027783.D

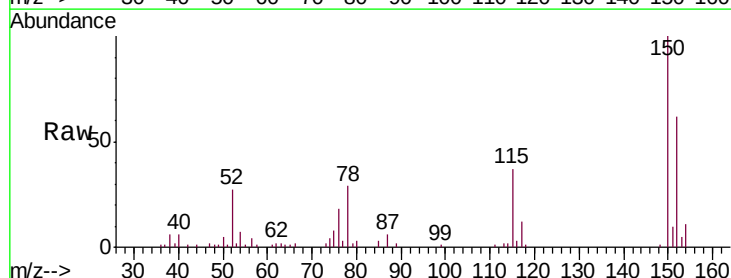
Acq: 24 Oct 2018 14:11

Tgt Ion: 75 Resp: 3261

Ion Ratio Lower Upper

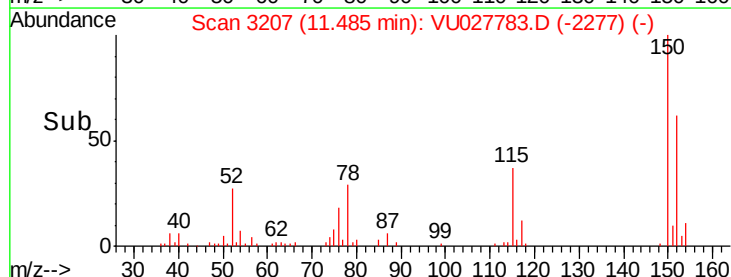
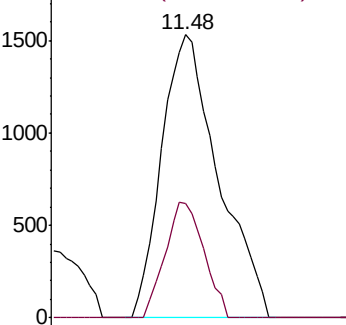
75 100

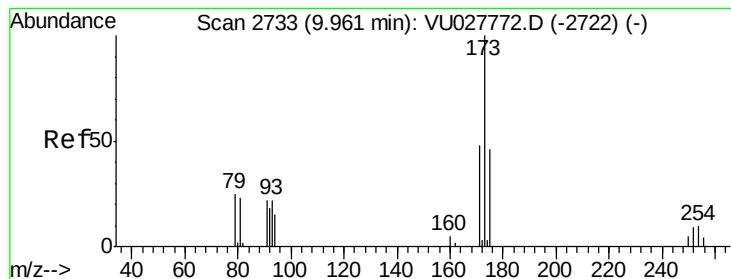
77 27.7 26.4 39.6



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0





#61

Bromoform

Concen: 0.198 ug/L

RT: 9.96 min Scan# 2733

Delta R.T. 0.00 min

Lab File: VU027783.D

Acq: 24 Oct 2018 14:11

Instrument :

MSVOA_U

ClientSampleId :

MDL07

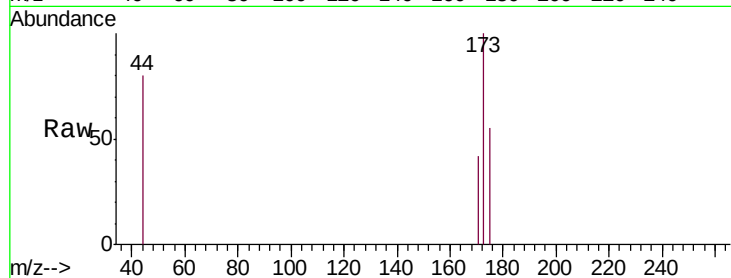
Tgt Ion:173 Resp: 319

Ion Ratio Lower Upper

173 100

175 27.0 37.7 56.5#

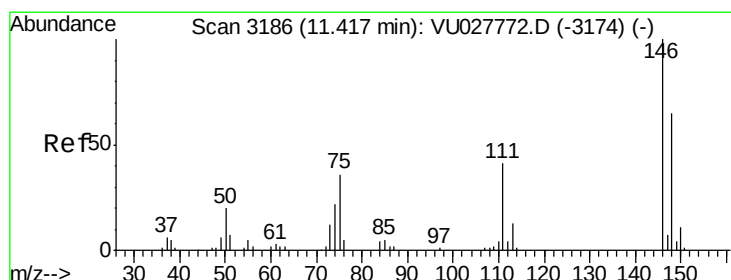
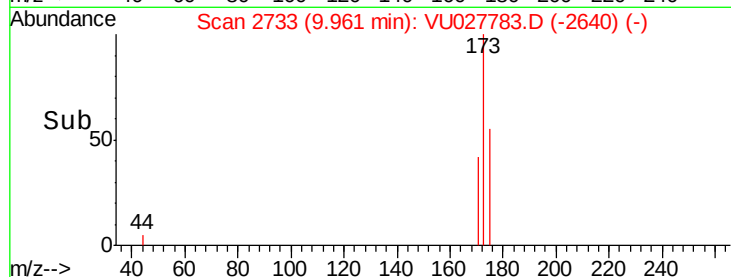
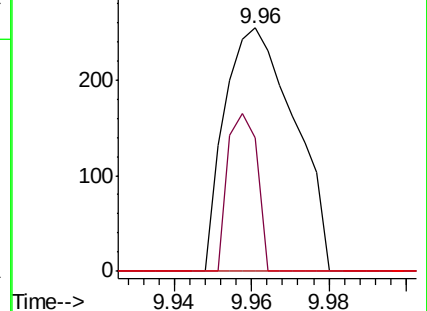
254 0.0 7.2 10.8#



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 253.75 (253.45 to 254.45): V



#62

1,3-Dichlorobenzene

Concen: 0.272 ug/L

RT: 11.42 min Scan# 3187

Delta R.T. 0.00 min

Lab File: VU027783.D

Acq: 24 Oct 2018 14:11

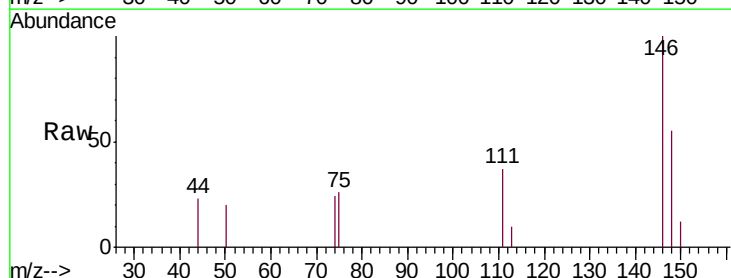
Tgt Ion:146 Resp: 1830

Ion Ratio Lower Upper

146 100

111 36.8 28.6 53.0

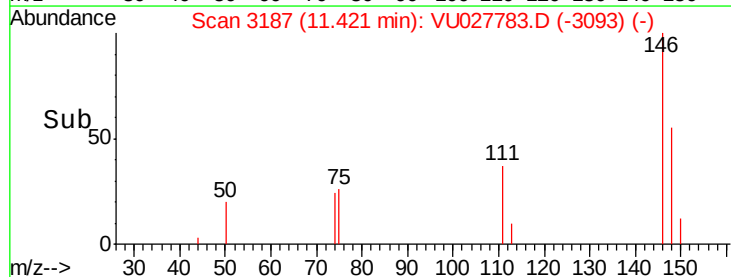
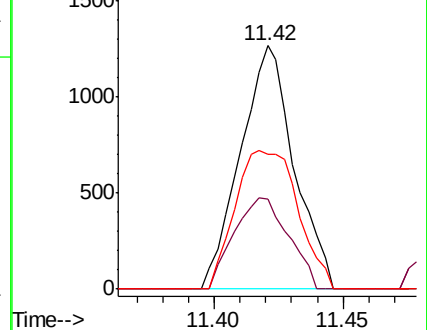
148 55.4 45.1 83.9

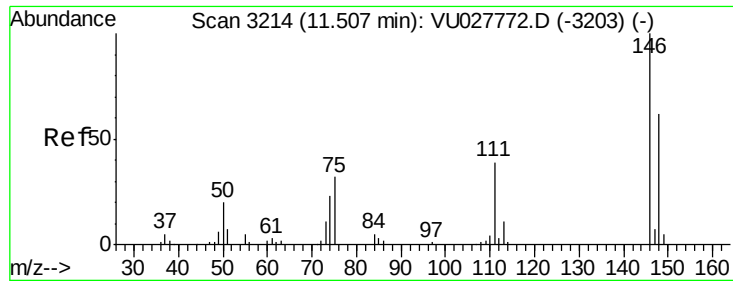


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

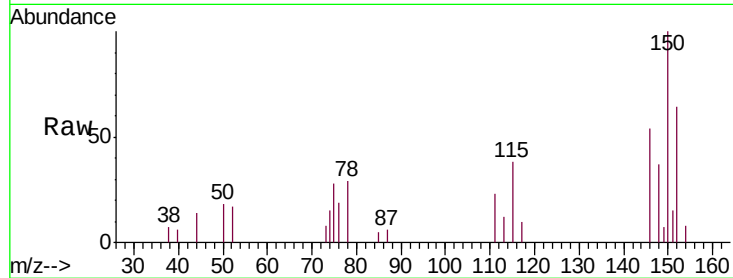




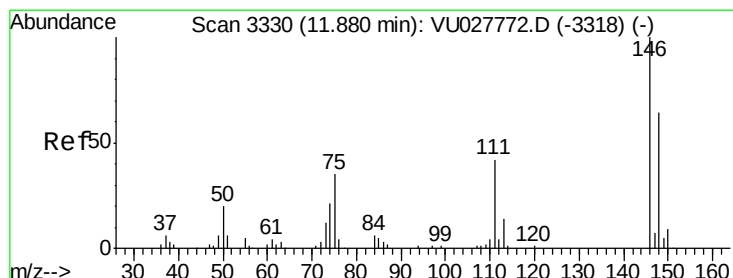
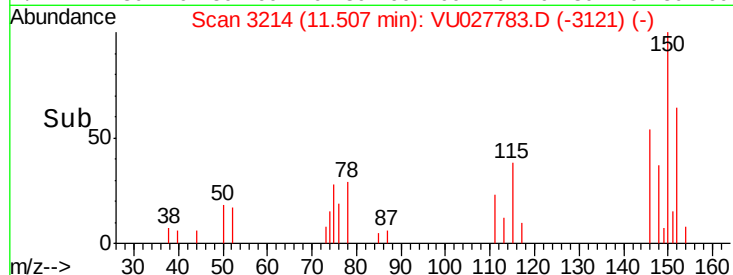
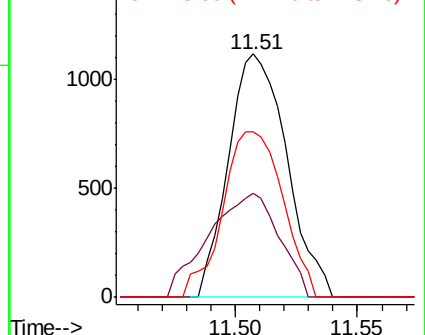
#63
 1,4-Dichlorobenzene
 Concen: 0.272 ug/L
 RT: 11.51 min Scan# 3214
 Delta R.T. 0.00 min
 Lab File: VU027783.D
 Acq: 24 Oct 2018 14:11

Instrument :
 MSVOA_U
 ClientSampled :
 MDL07

Tgt Ion:146 Resp: 1853
 Ion Ratio Lower Upper
 146 100
 111 42.7 27.6 51.4
 148 68.1 43.3 80.3

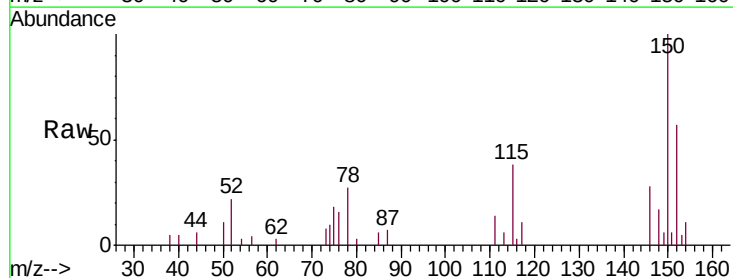


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

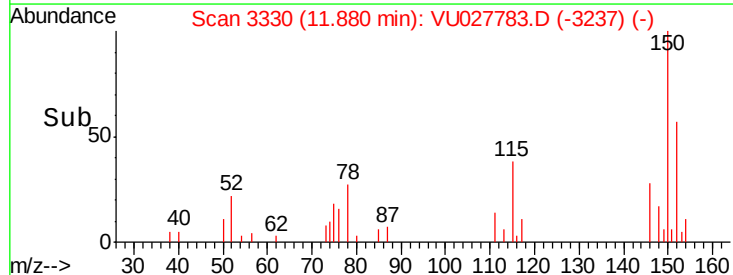
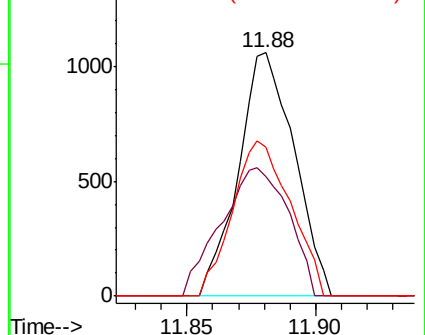


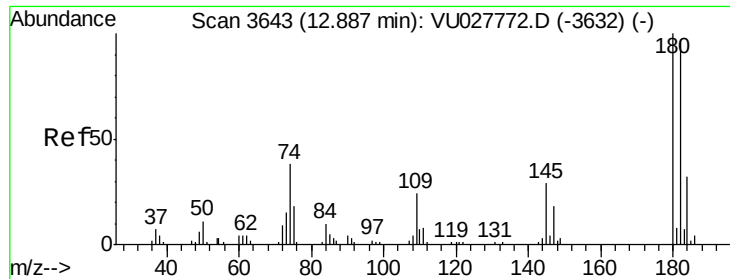
#65
 1,2-Dichlorobenzene
 Concen: 0.253 ug/L
 RT: 11.88 min Scan# 3330
 Delta R.T. 0.00 min
 Lab File: VU027783.D
 Acq: 24 Oct 2018 14:11

Tgt Ion:146 Resp: 1603
 Ion Ratio Lower Upper
 146 100
 111 49.2 33.7 50.5
 148 61.3 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

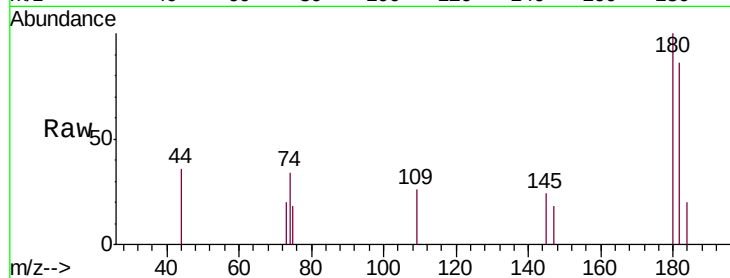




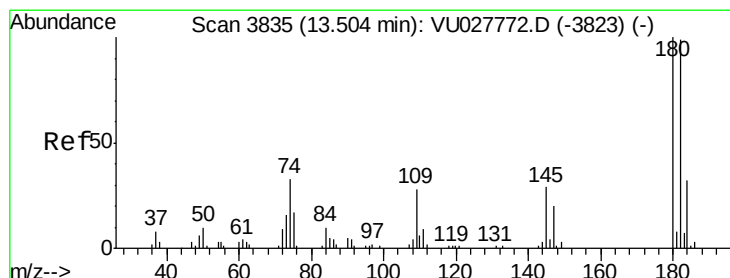
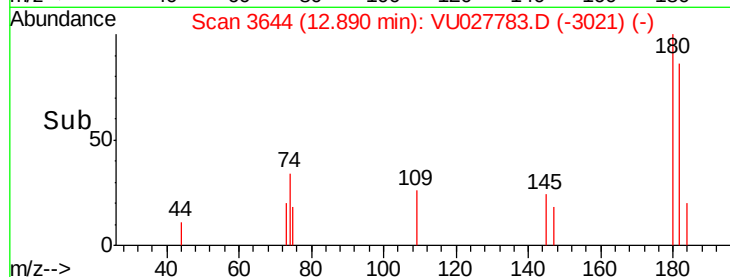
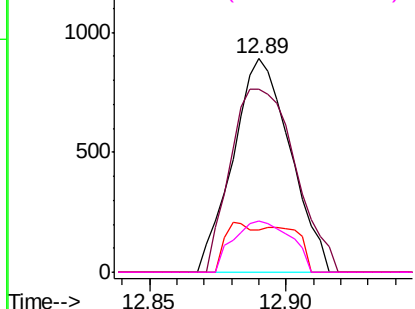
#67
 1,3,5-Trichlorobenzene
 Concen: 0.240 ug/L
 RT: 12.89 min Scan# 3644
 Delta R.T. 0.00 min
 Lab File: VU027783.D
 Acq: 24 Oct 2018 14:11

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL07

Tgt Ion:180 Resp: 1296
 Ion Ratio Lower Upper
 180 100
 182 97.8 78.9 118.3
 184 13.4 24.6 37.0#
 145 24.1 23.4 35.0

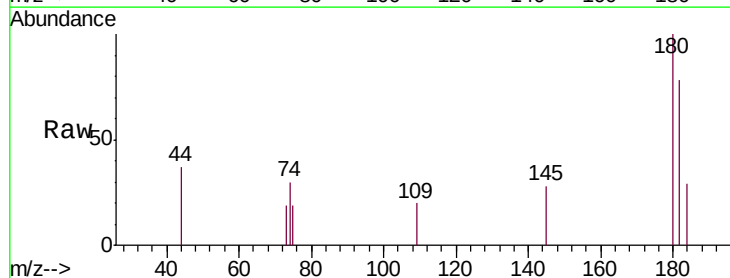


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

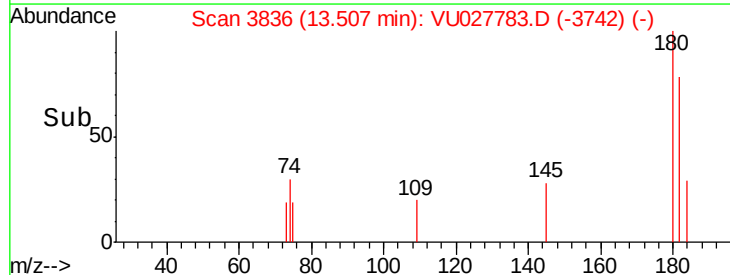
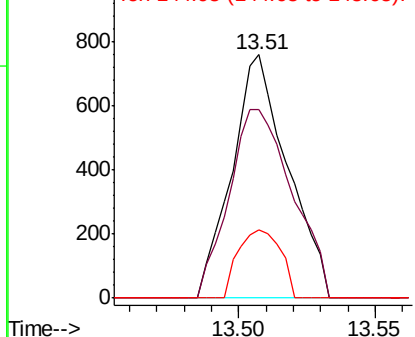


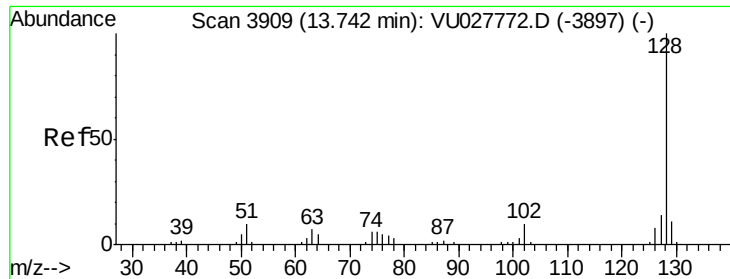
#68
 1,2,4-trichlorobenzene
 Concen: 0.230 ug/L
 RT: 13.51 min Scan# 3836
 Delta R.T. 0.00 min
 Lab File: VU027783.D
 Acq: 24 Oct 2018 14:11

Tgt Ion:180 Resp: 1080
 Ion Ratio Lower Upper
 180 100
 182 87.9 77.6 116.4
 145 21.3 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: 0.195 ug/L

RT: 13.75 min Scan# 3911

Delta R.T. 0.01 min

Lab File: VU027783.D

Acq: 24 Oct 2018 14:11

Instrument :

MSVOA_U

ClientSampled :

MDL07

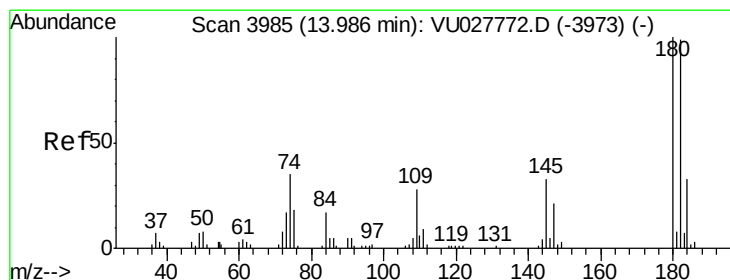
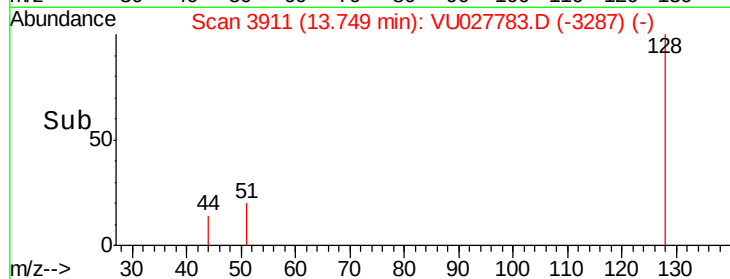
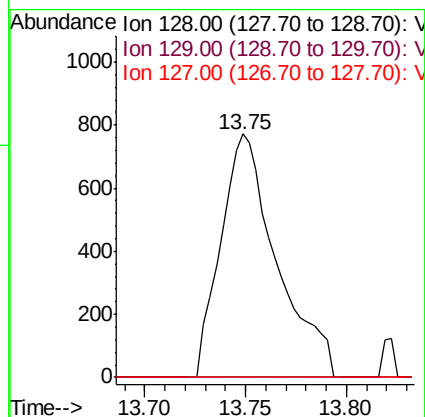
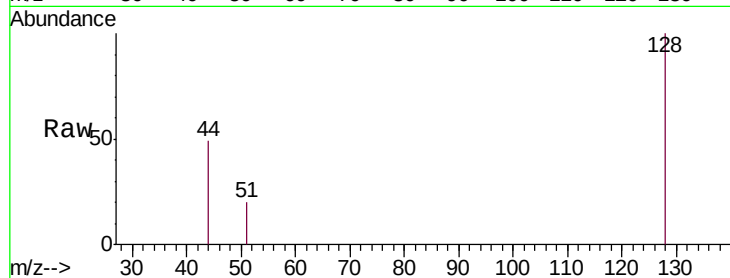
Tgt Ion:128 Resp: 1488

Ion Ratio Lower Upper

128 100

129 0.0 8.8 13.2#

127 0.0 10.7 16.1#



#70

1,2,3-Trichlorobenzene

Concen: 0.218 ug/L

RT: 13.99 min Scan# 3986

Delta R.T. 0.00 min

Lab File: VU027783.D

Acq: 24 Oct 2018 14:11

Tgt Ion:180 Resp: 943

Ion Ratio Lower Upper

180 100

182 107.5 76.9 115.3

145 30.3 24.6 37.0

