

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U101720\
 Data File : VU040779.D
 Acq On : 17 Oct 2020 22:23
 Operator : SY/MD
 Sample : L4447-01
 Misc : 25.4mL/MSVOA U/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Oct 19 03:10:50 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR100820WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Mon Oct 19 03:08:11 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	117037	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	121422	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	51130	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	31100	3.21	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	64.20%
7) Chloroethane-d5	1.93	69	31326	4.19	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	83.80%
11) 1,1-Dichloroethene-d2	2.58	63	53136	2.80	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	56.00%#
20) 2-Butanone-d5	4.66	46	169410	54.59	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	109.18%
24) Chloroform-d	5.08	84	80854	4.75	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.00%
26) 1,2-Dichloroethane-d4	5.72	65	51465	4.96	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.20%
32) Benzene-d6	5.75	84	139924	4.27	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	85.40%
36) 1,2-Dichloropropane-d6	6.70	67	50872	4.68	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	93.60%
41) Toluene-d8	7.91	98	104648	3.57	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	71.40%
43) trans-1,3-Dichloropropene-	8.19	79	17593	3.82	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	76.40%
46) 2-Hexanone-d5	8.64	63	116388	49.04	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	98.08%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	46125	4.73	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	94.60%
64) 1,2-Dichlorobenzene-d4	12.19	152	45537	4.80	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	96.00%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chloromethane	1.53	50	1521	0.153	ug/L	98
5) Vinyl chloride	1.61	62	3981	0.381	ug/L #	20
8) Chloroethane	1.94	64	276	0.042	ug/L #	68
12) 1,1-Dichloroethene	2.59	96	1247	0.149	ug/L #	1
13) Acetone	2.68	43	11325	4.708	ug/L	68
15) Methyl Acetate	2.98	43	814	0.148	ug/L #	56
18) trans-1,2-Dichloroethene	3.37	96	1191	0.136	ug/L	87
22) cis-1,2-Dichloroethene	4.69	96	178152	18.899	ug/L	96
27) 1,2-Dichloroethane	5.80	62	448	0.034	ug/L #	77
33) Benzene	5.80	78	983	0.025	ug/L	100
34) Trichloroethene	6.56	95	142453	14.088	ug/L	98
35) Methylcyclohexane	6.70	83	11973	0.835	ug/L #	14
37) 1,2-Dichloropropane	6.70	63	5890	0.542	ug/L #	87
42) Toluene	7.98	91	3491	0.088	ug/L	98
44) trans-1,3-Dichloropropene	8.19	75	719	0.053	ug/L #	53
45) 1,1,2-Trichloroethane	8.56	97	2087	0.256	ug/L #	1
47) Tetrachloroethene	8.56	164	218300	30.260	ug/L	95

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Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Oct 19 03:08:11 2020
Response via : Initial Calibration

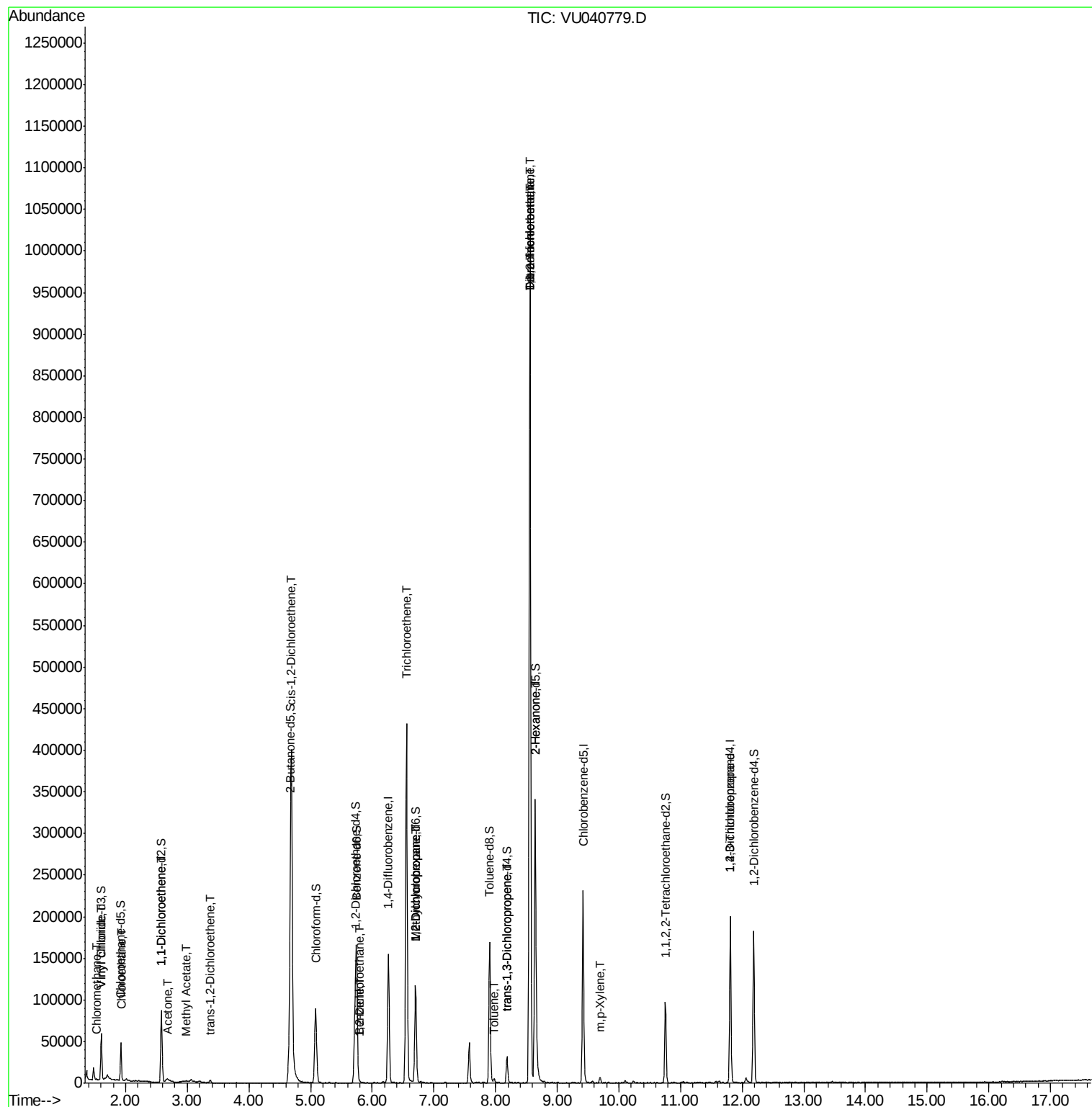
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 2-Hexanone	8.64	43	19525	3.026	ug/L #	74
49) Dibromochloromethane	8.56	129	214762	22.929	ug/L #	9
53) m,p-Xylene	9.69	106	2018	0.129	ug/L	91
59) 1,2,3-Trichloropropane	11.81	75	6913	0.866	ug/L	90

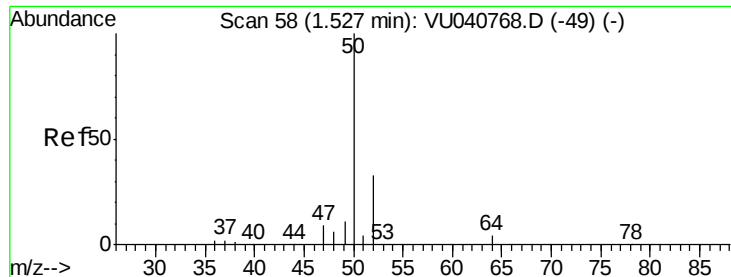
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU101720\
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#3

Chloromethane

Concen: 0.153 ug/L

RT: 1.53 min Scan# 58

Delta R.T. -0.00 min

Lab File: VU040779.D

Acq: 17 Oct 2020 22:23

Instrument :

MSVOA_U

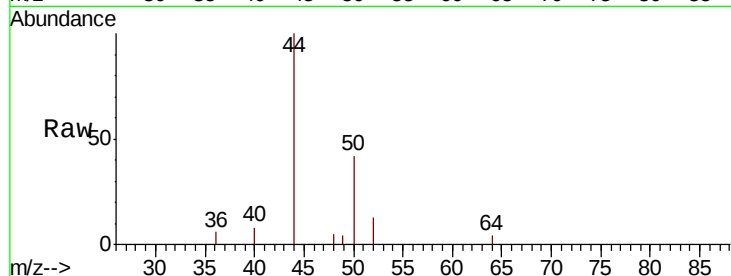
ClientSampled :

Tot Ion: 50 Resp: 1521

Ion Ratio Lower Upper

50 100

52 32.3 21.9 40.7



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0

1500

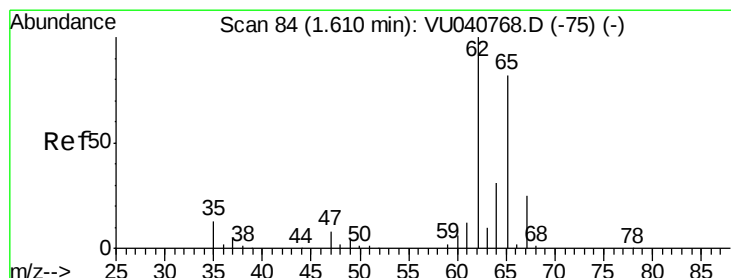
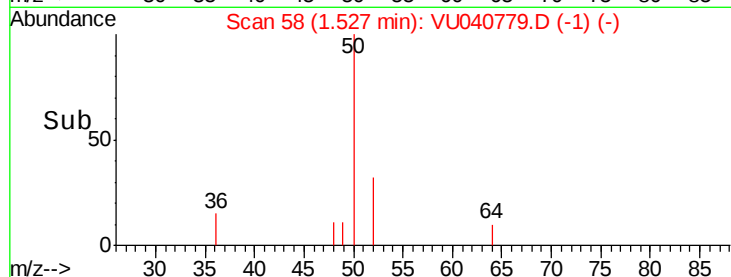
1000

500

0

1.50 1.52 1.54 1.56

Time-->



#5

Vinyl chloride

Concen: 0.381 ug/L

RT: 1.61 min Scan# 84

Delta R.T. -0.00 min

Lab File: VU040779.D

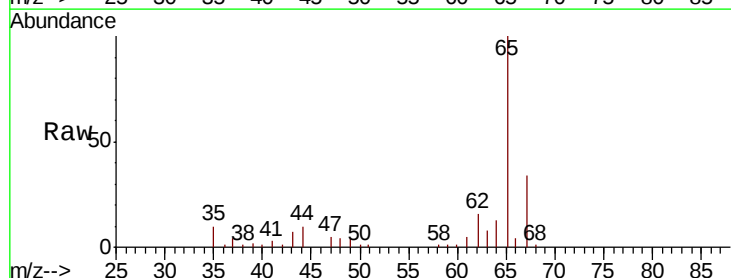
Acq: 17 Oct 2020 22:23

Tgt Ion: 62 Resp: 3981

Ion Ratio Lower Upper

62 100

64 79.6 23.7 44.1#



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0

4000

3000

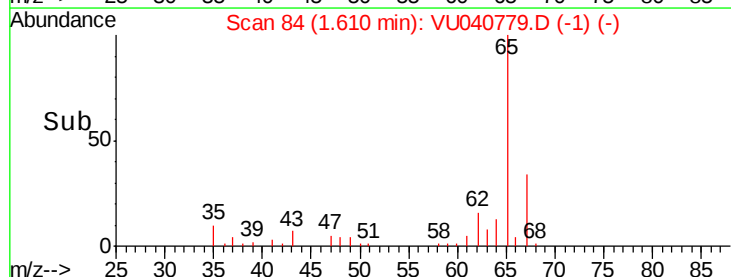
2000

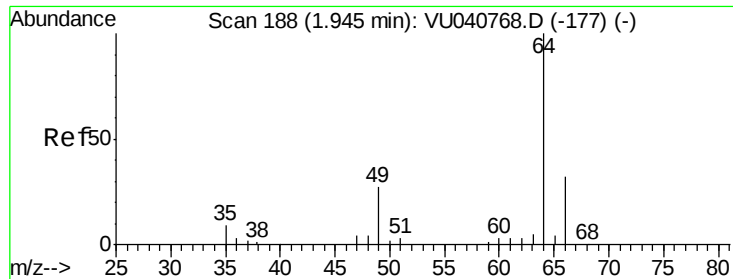
1000

0

1.58 1.60 1.62 1.64

Time-->





#8

Chloroethane

Concen: 0.042 ug/L

RT: 1.94 min Scan# 187

Delta R.T. -0.00 min

Lab File: VU040779.D

Acq: 17 Oct 2020 22:23

Instrument :

MSVOA_U

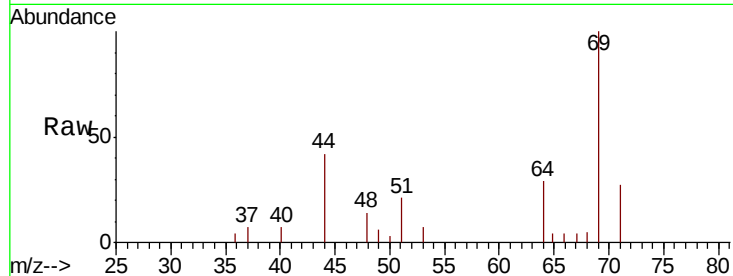
ClientSampleId :

Tot Ion: 64 Resp: 276

Ion Ratio Lower Upper

64 100

66 15.0 23.3 43.3#



Abundance Ion 64.10 (63.80 to 64.80): VU0

Ion 66.05 (65.75 to 66.75): VU0

1.94

1200

1000

800

600

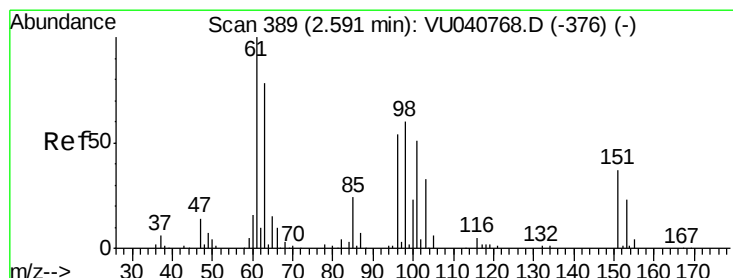
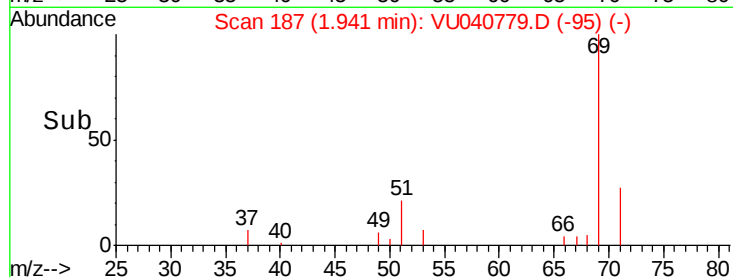
400

200

0

1.92 1.93 1.94 1.95 1.96

Time-->



#12

1,1-Dichloroethene

Concen: 0.149 ug/L

RT: 2.59 min Scan# 388

Delta R.T. -0.00 min

Lab File: VU040779.D

Acq: 17 Oct 2020 22:23

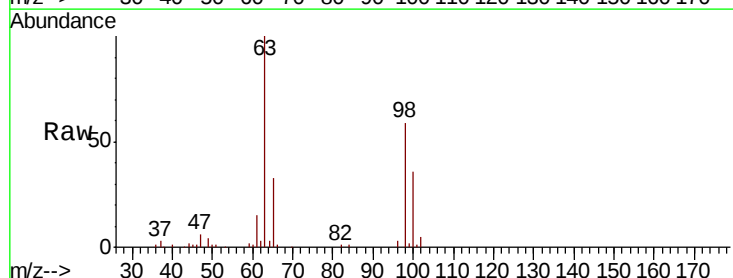
Tgt Ion: 96 Resp: 1247

Ion Ratio Lower Upper

96 100

61 506.9 128.8 239.2#

63 3484.4 84.6 157.2#



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

40000

30000

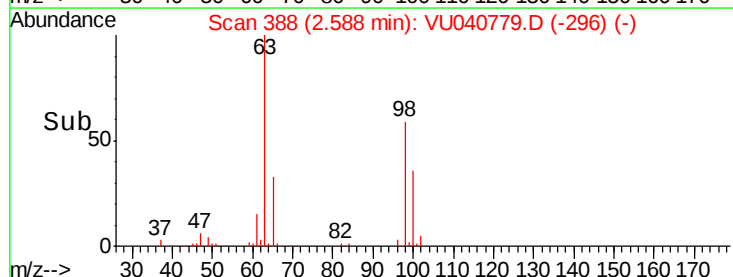
20000

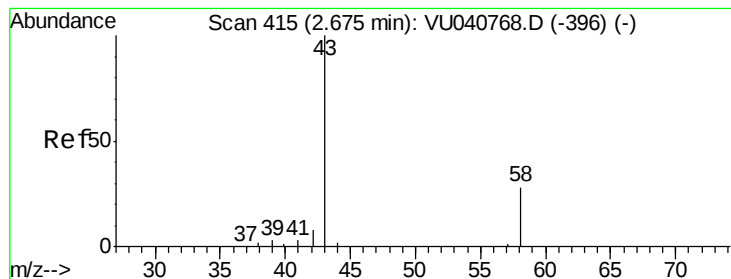
10000

0

2.55 2.59 2.60

Time-->





#13

Acetone

Concen: 4.708 ug/L

RT: 2.68 min Scan# 416

Delta R.T. 0.00 min

Lab File: VU040779.D

Acq: 17 Oct 2020 22:23

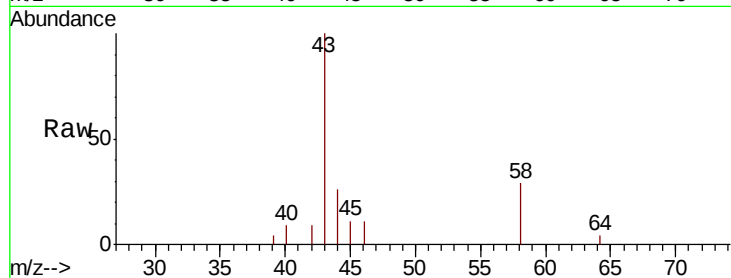
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 11325

Ion Ratio Lower Upper

43 100

58 13.0 0.0 60.6



Abundance Ion 43.05 (42.75 to 43.75): VU040779.D (-322) (-)

Ion 58.05 (57.75 to 58.75): VU040779.D (-322) (-)

2.68

2500

2000

1500

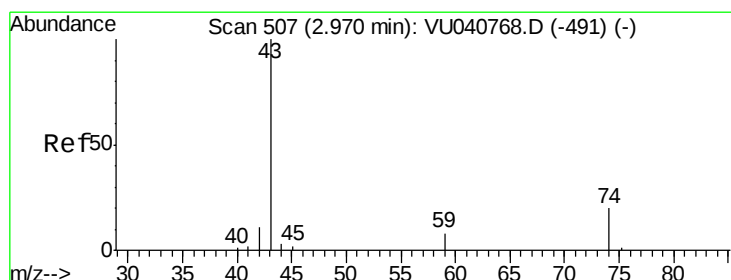
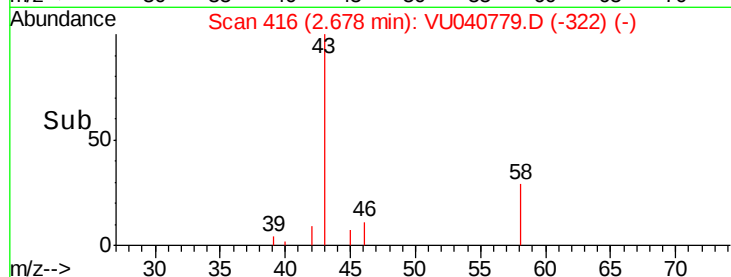
1000

500

0

2.60 2.70 2.80

Time-->



#15

Methyl Acetate

Concen: 0.148 ug/L

RT: 2.98 min Scan# 510

Delta R.T. 0.01 min

Lab File: VU040779.D

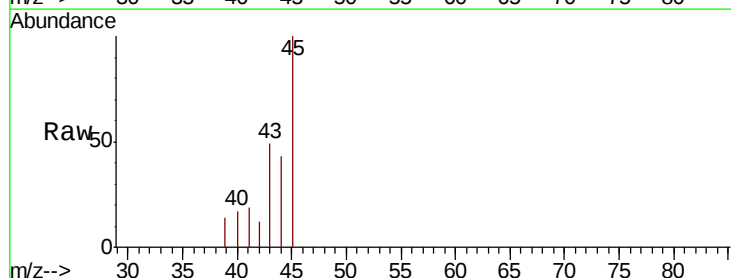
Acq: 17 Oct 2020 22:23

Tgt Ion: 43 Resp: 814

Ion Ratio Lower Upper

43 100

74 0.0 16.5 24.7#



Abundance Ion 43.05 (42.75 to 43.75): VU040779.D (-414) (-)

Ion 74.05 (73.75 to 74.75): VU040779.D (-414) (-)

2.98

600

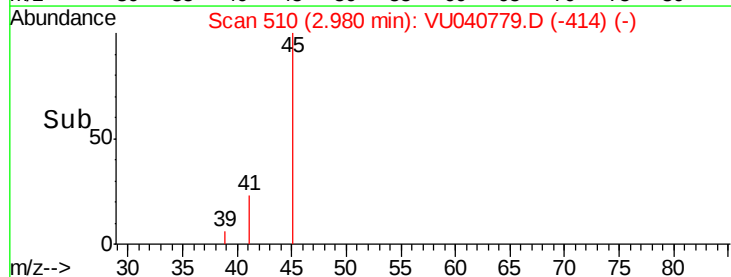
400

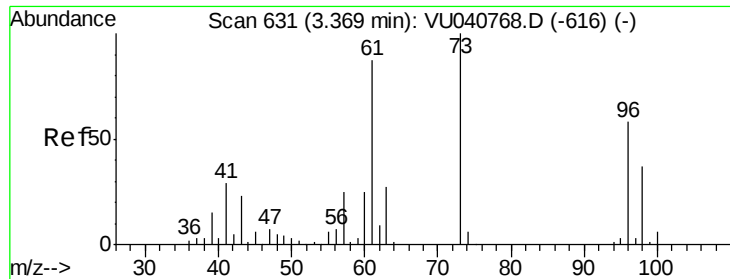
200

0

2.95 3.00

Time-->

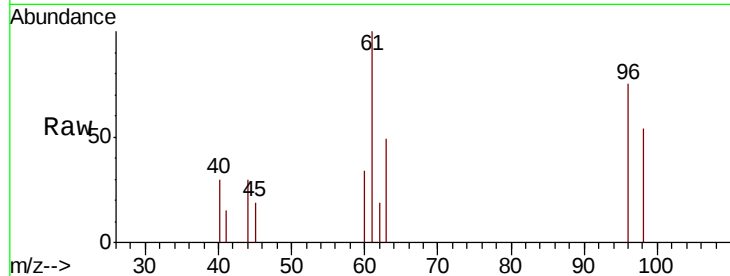




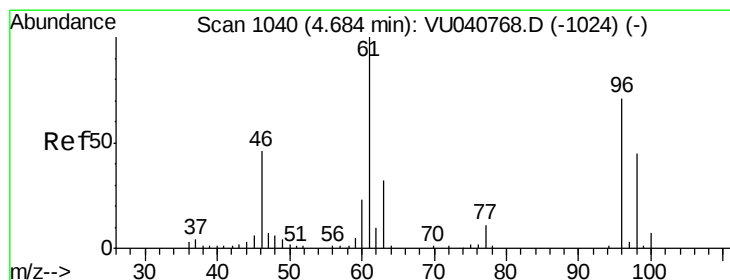
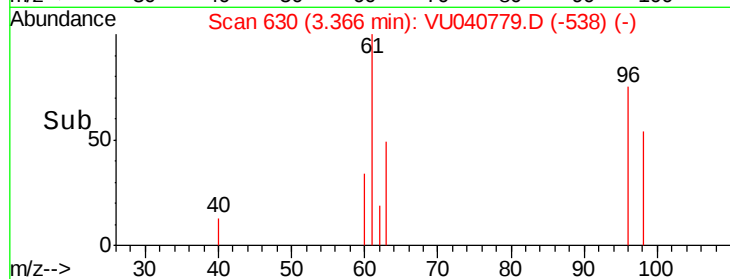
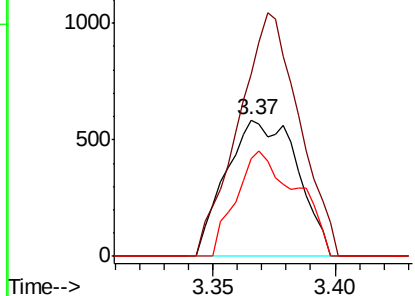
#18
 trans-1,2-Dichloroethene
 Concen: 0.136 ug/L
 RT: 3.37 min Scan# 630
 Delta R.T. -0.00 min
 Lab File: VU040779.D
 Acq: 17 Oct 2020 22:23

Instrument :
 MSVOA_U
 ClientSampled :

Tot Ion: 96 Resp: 1191
 Ion Ratio Lower Upper
 96 100
 61 133.7 105.9 196.7
 98 72.1 43.8 81.3

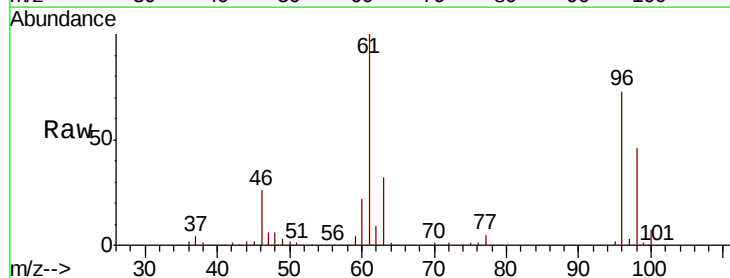


Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 97.95 (97.65 to 98.65): VU0

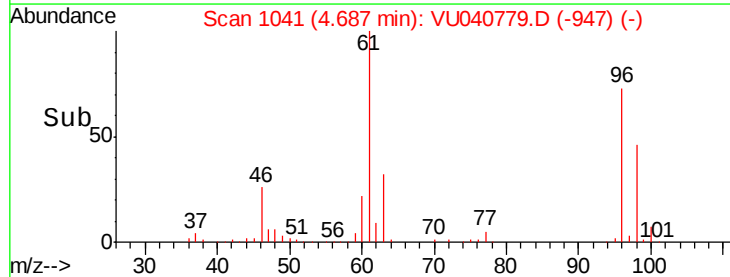
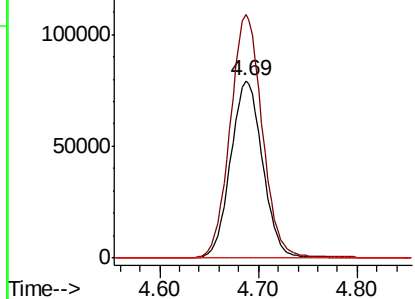


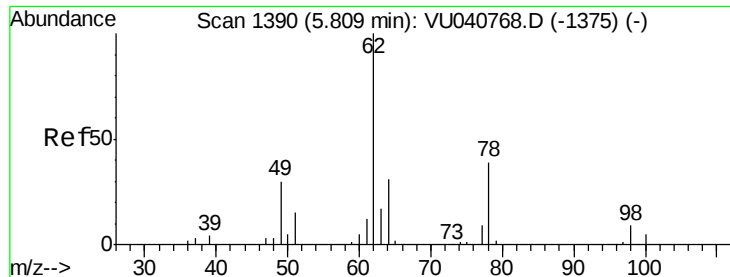
#22
 cis-1,2-Dichloroethene
 Concen: 18.899 ug/L
 RT: 4.69 min Scan# 1041
 Delta R.T. 0.00 min
 Lab File: VU040779.D
 Acq: 17 Oct 2020 22:23

Tgt Ion: 96 Resp: 178152
 Ion Ratio Lower Upper
 96 100
 61 137.5 99.8 185.4
 68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 68.15 (67.85 to 68.85): VU0

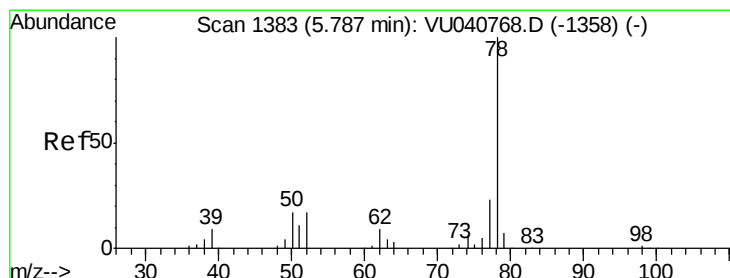
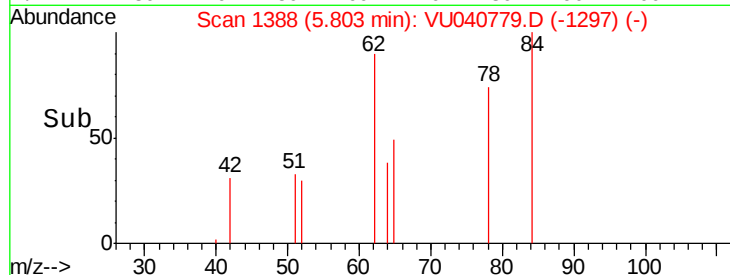
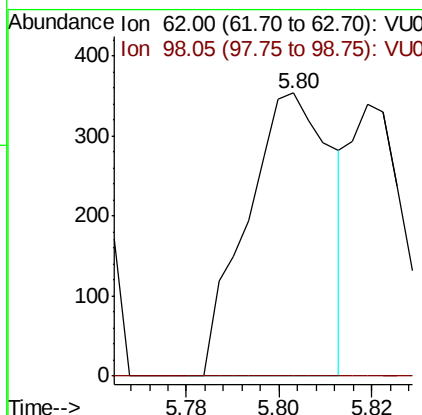
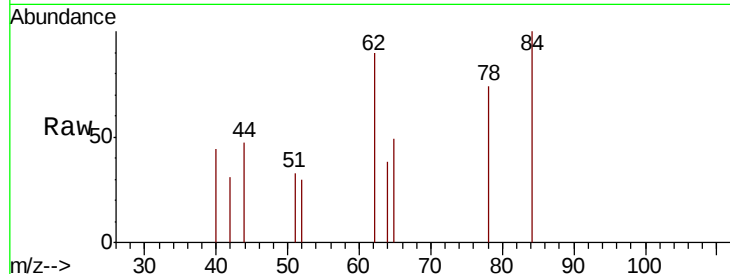




#27
 1,2-Dichloroethane
 Concen: 0.034 ug/L
 RT: 5.80 min Scan# 1388
 Delta R.T. -0.01 min
 Lab File: VU040779.D
 Acq: 17 Oct 2020 22:23

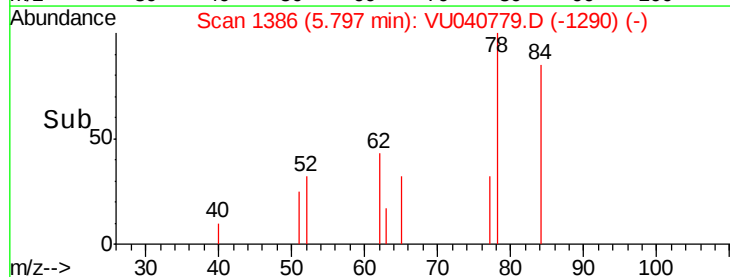
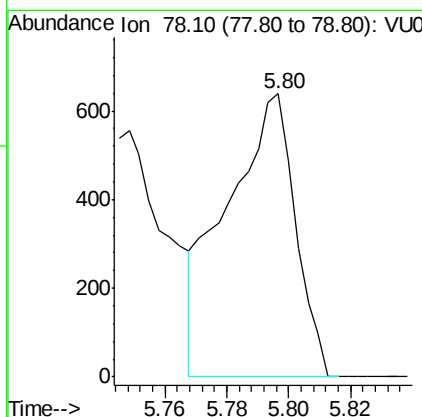
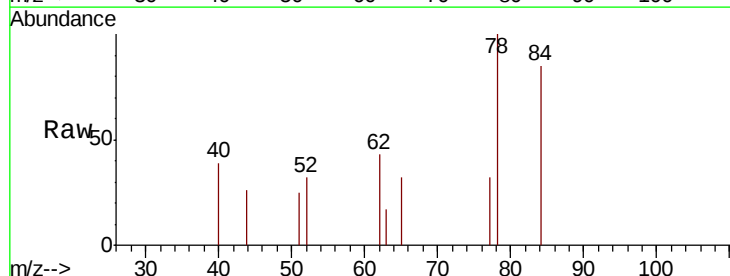
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 ClientSampled :

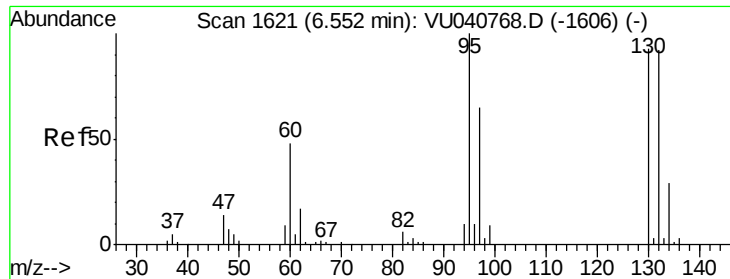
Tot Ion: 62 Resp: 448
 Ion Ratio Lower Upper
 62 100
 98 0.0 6.6 10.0#



#33
 Benzene
 Concen: 0.025 ug/L
 RT: 5.80 min Scan# 1386
 Delta R.T. 0.01 min
 Lab File: VU040779.D
 Acq: 17 Oct 2020 22:23

Tgt Ion: 78 Resp: 983

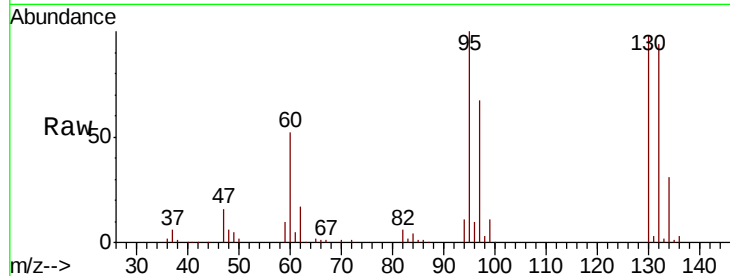




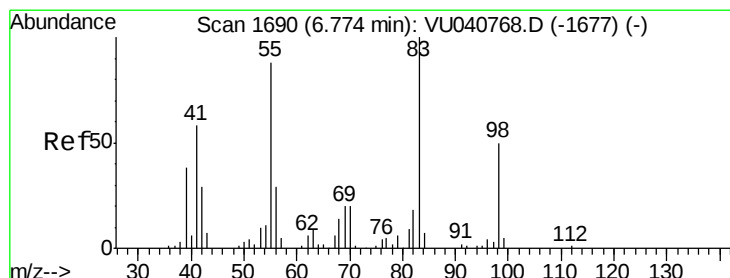
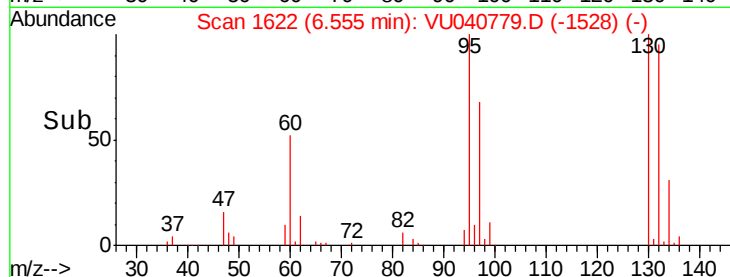
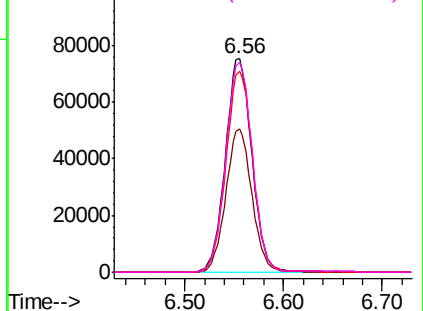
#34
 Trichloroethene
 Concen: 14.088 ug/L
 RT: 6.56 min Scan# 1622
 Delta R.T. 0.00 min
 Lab File: VU040779.D
 Acq: 17 Oct 2020 22:23

Instrument :
 MSVOA_U
 ClientSampled :

Tot Ion: 95 Resp: 142453
 Ion Ratio Lower Upper
 95 100
 97 67.3 45.5 84.5
 132 93.9 67.5 125.4
 130 98.3 69.9 129.9

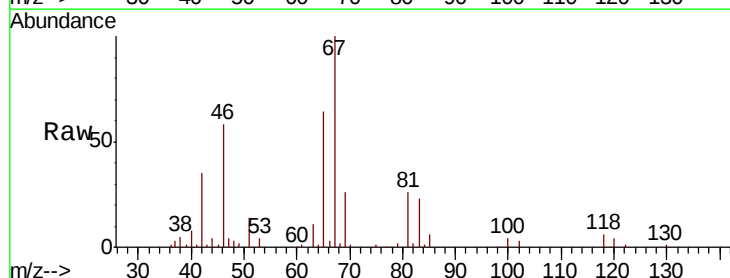


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

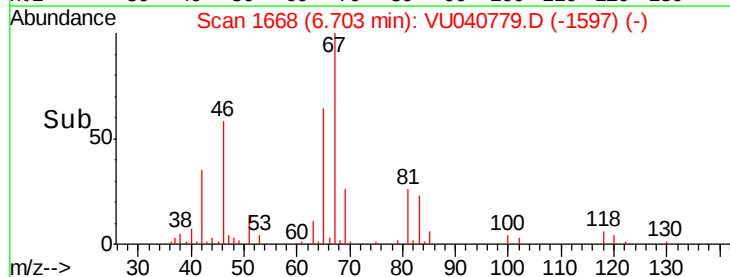
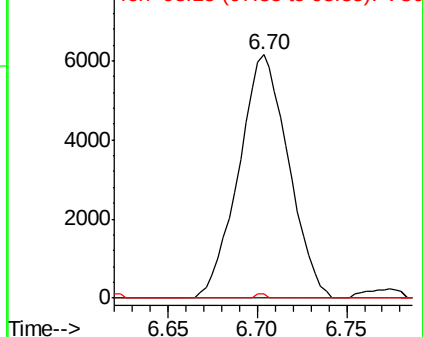


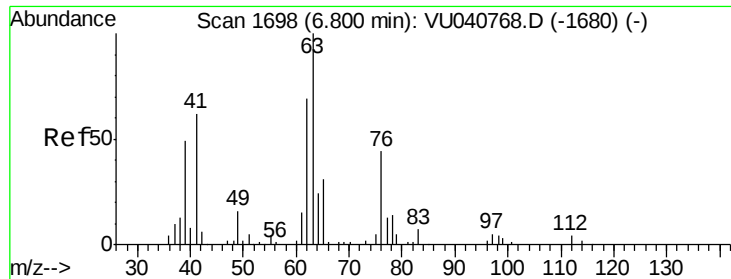
#35
 Methylcyclohexane
 Concen: 0.835 ug/L
 RT: 6.70 min Scan# 1668
 Delta R.T. -0.07 min
 Lab File: VU040779.D
 Acq: 17 Oct 2020 22:23

Tgt Ion: 83 Resp: 11973
 Ion Ratio Lower Upper
 83 100
 55 0.0 70.7 106.1#
 98 0.0 38.4 57.6#



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

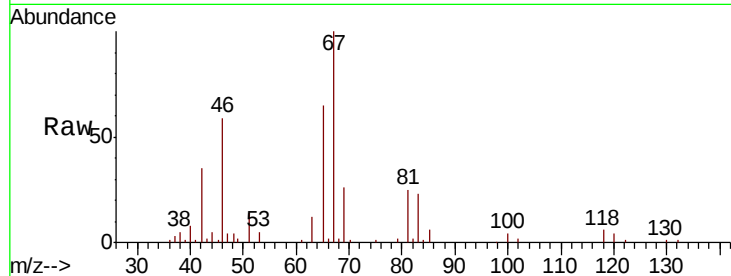




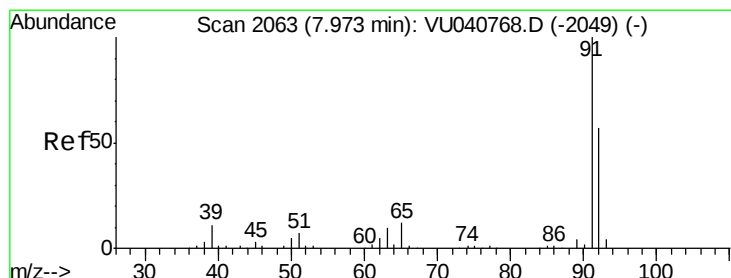
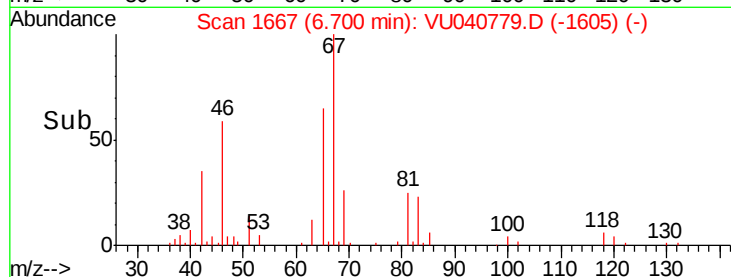
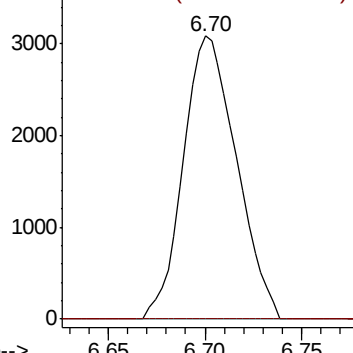
#37
 1,2-Dichloropropane
 Concen: 0.542 ug/L
 RT: 6.70 min Scan# 1667
 Delta R.T. -0.10 min
 Lab File: VU040779.D
 Acq: 17 Oct 2020 22:23

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 63 Resp: 5890
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.5 5.3#

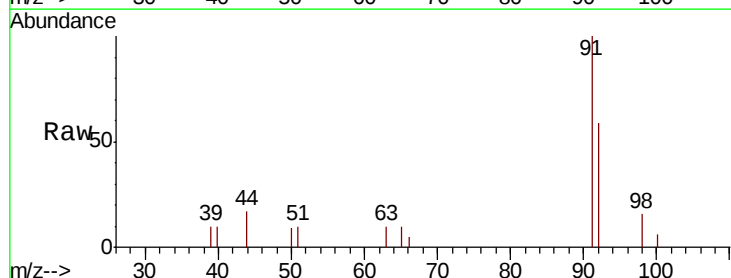


Abundance Ion 63.10 (62.80 to 63.80): VU040779.D (-1667) (-)
 Ion 112.10 (111.80 to 112.80): VU040779.D (-1667) (-)

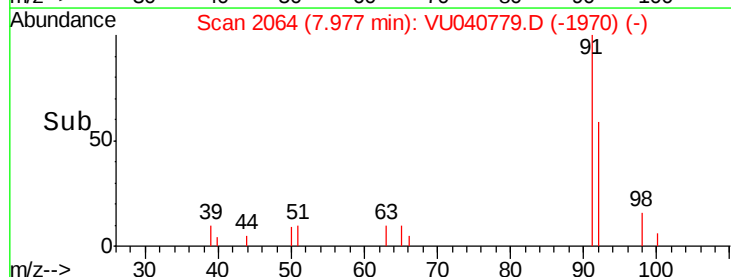
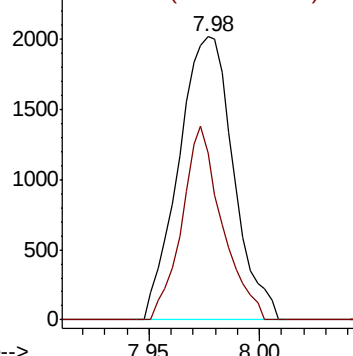


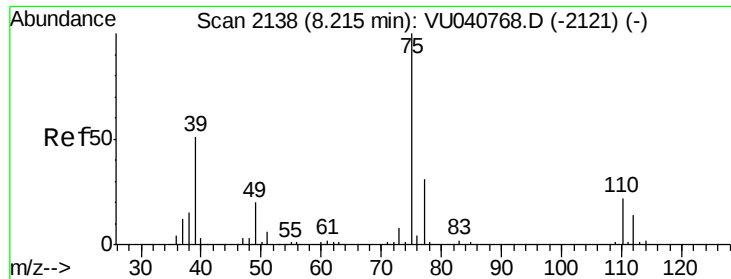
#42
 Toluene
 Concen: 0.088 ug/L
 RT: 7.98 min Scan# 2064
 Delta R.T. 0.00 min
 Lab File: VU040779.D
 Acq: 17 Oct 2020 22:23

Tgt Ion: 91 Resp: 3491
 Ion Ratio Lower Upper
 91 100
 92 58.7 40.2 74.6



Abundance Ion 91.15 (90.85 to 91.85): VU040779.D (-1970) (-)
 Ion 92.15 (91.85 to 92.85): VU040779.D (-1970) (-)





#44

trans-1,3-Dichloropropene

Concen: 0.053 ug/L

RT: 8.19 min Scan# 2129

Delta R.T. -0.03 min

Lab File: VU040779.D

Acq: 17 Oct 2020 22:23

Instrument :

MSVOA_U

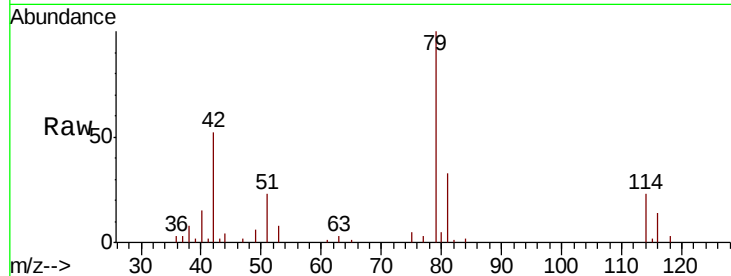
ClientSampleId :

Tot Ion: 75 Resp: 719

Ion Ratio Lower Upper

75 100

77 54.6 20.4 38.0#



Abundance Ion 75.05 (74.75 to 75.75): VU040768.D (-2121) (-)

Ion 77.05 (76.75 to 77.75): VU040768.D (-2121) (-)

8.19

500

400

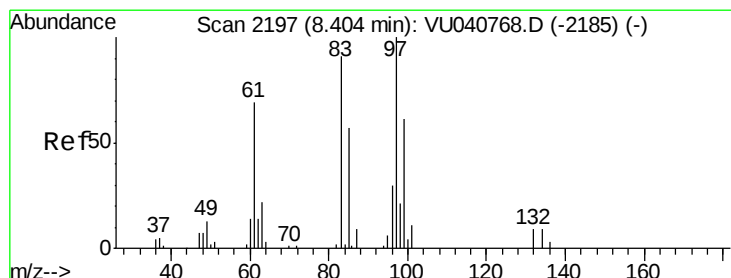
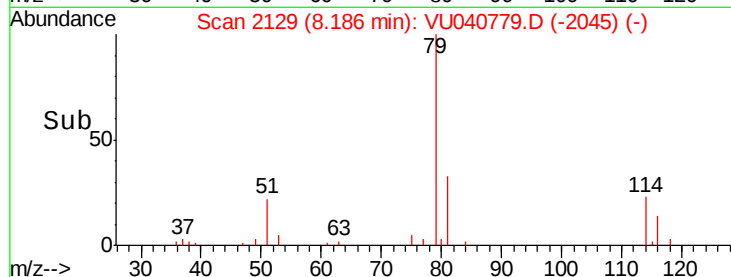
300

200

100

0

Time--> 8.14 8.16 8.18 8.20 8.22



#45

1,1,2-Trichloroethane

Concen: 0.256 ug/L

RT: 8.56 min Scan# 2244

Delta R.T. 0.15 min

Lab File: VU040779.D

Acq: 17 Oct 2020 22:23

Tgt Ion: 97 Resp: 2087

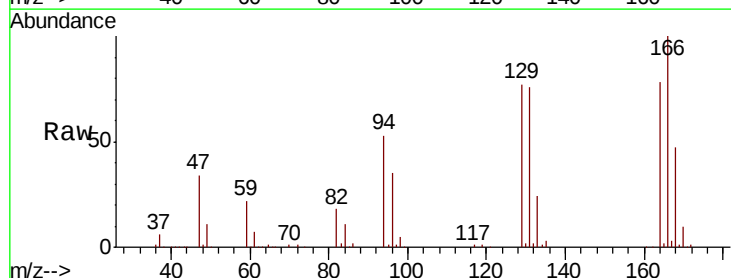
Ion Ratio Lower Upper

97 100

99 14.4 44.0 81.6#

83 277.5 62.9 116.9#

85 44.2 40.3 74.8



Abundance Ion 96.95 (96.65 to 97.65): VU040768.D (-2185) (-)

Ion 99.05 (98.75 to 99.75): VU040768.D (-2185) (-)

Ion 82.95 (82.65 to 83.65): VU040768.D (-2185) (-)

Ion 85.00 (84.70 to 85.70): VU040768.D (-2185) (-)

5000

4000

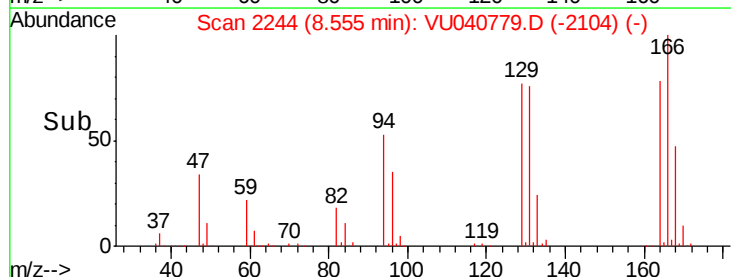
3000

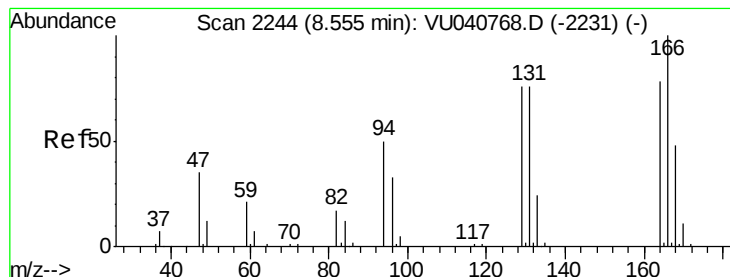
2000

1000

0

Time--> 8.50 8.55 8.60





#47

Tetrachloroethene

Concen: 30.260 ug/L

RT: 8.56 min Scan# 2245

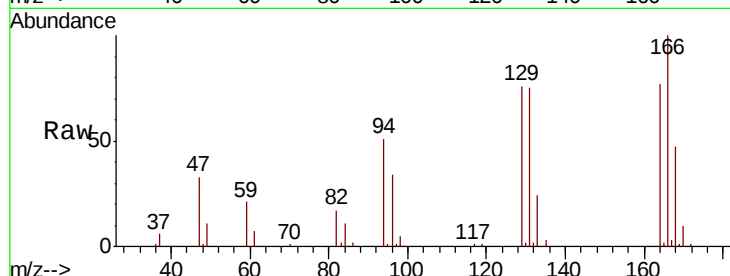
Delta R.T. 0.00 min

Lab File: VU040779.D

Acq: 17 Oct 2020 22:23

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:	164	Resp:	218300
Ion	Ratio	Lower	Upper
164	100		
129	99.5	68.8	127.8
131	97.2	66.7	123.9
166	130.3	83.9	155.7



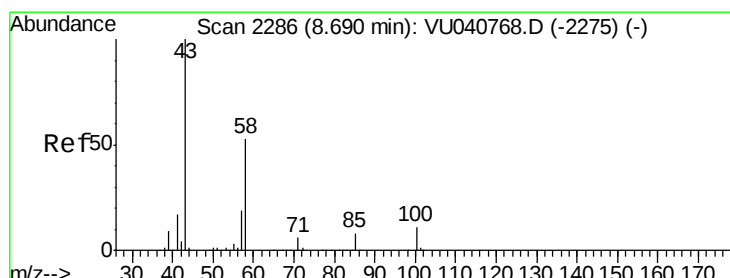
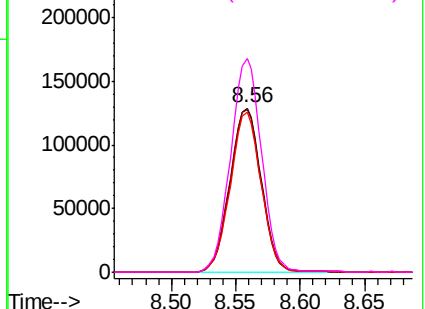
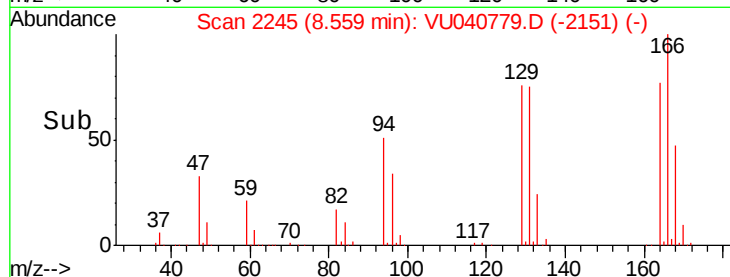
Abundance

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: 3.026 ug/L

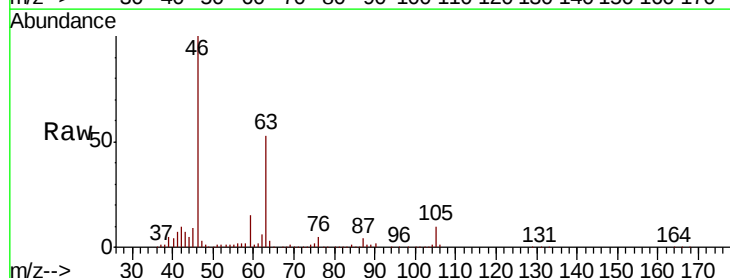
RT: 8.64 min Scan# 2271

Delta R.T. -0.05 min

Lab File: VU040779.D

Acq: 17 Oct 2020 22:23

Tgt Ion:	43	Resp:	19525
Ion	Ratio	Lower	Upper
43	100		
58	30.8	41.0	61.6#
57	24.6	14.4	21.6#
100	1.1	8.6	13.0#



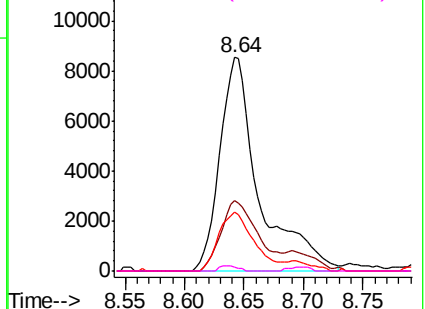
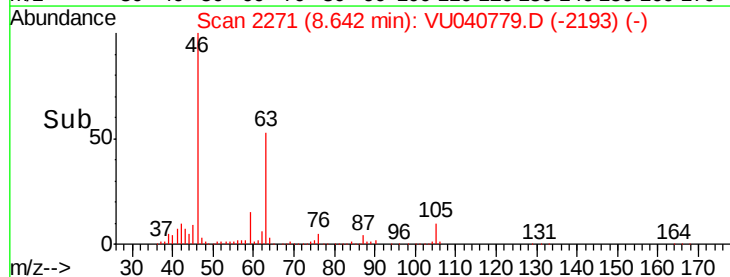
Abundance

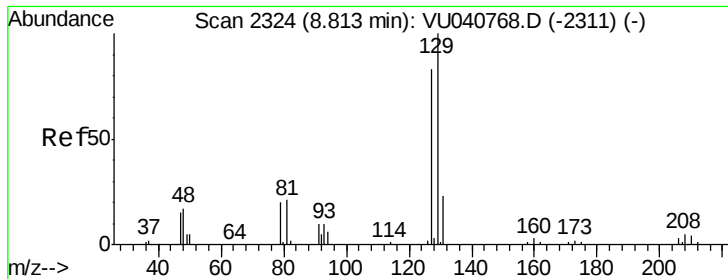
Ion 43.05 (42.75 to 43.75): VU0

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: 22.929 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. -0.25 min

Lab File: VU040779.D

Acq: 17 Oct 2020 22:23

Instrument :

MSVOA_U

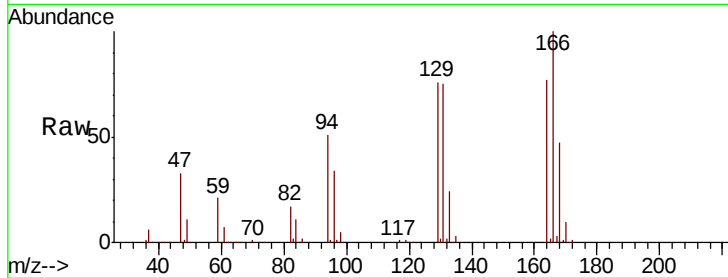
ClientSampleId :

Tot Ion:129 Resp: 214762

Ion Ratio Lower Upper

129 100

127 0.0 55.8 103.6#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V

8.56

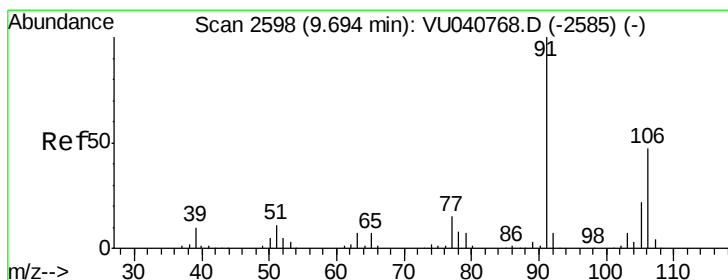
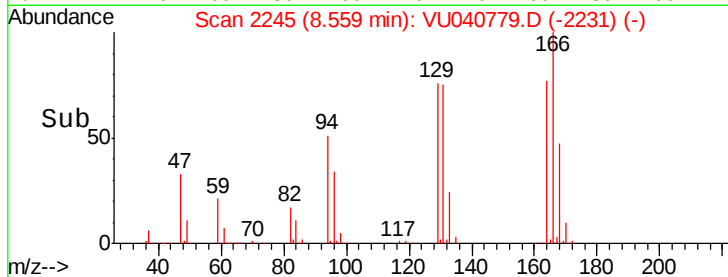
150000

100000

50000

0

Time-->



#53

m,p-Xylene

Concen: 0.129 ug/L

RT: 9.69 min Scan# 2597

Delta R.T. -0.00 min

Lab File: VU040779.D

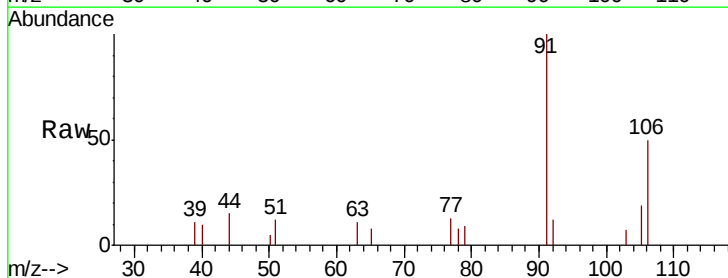
Acq: 17 Oct 2020 22:23

Tgt Ion:106 Resp: 2018

Ion Ratio Lower Upper

106 100

91 198.3 148.5 275.7



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0

2500

2000

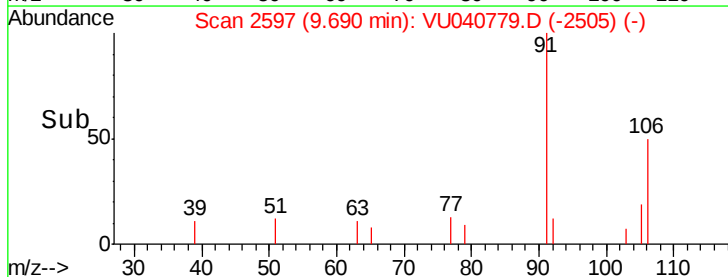
1500

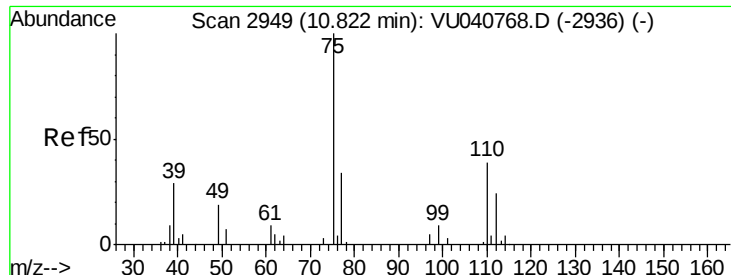
1000

500

0

Time-->





#59

1,2,3-Trichloropropane

Concen: 0.866 ug/L

RT: 11.81 min Scan# 3255

Delta R.T. 0.98 min

Lab File: VU040779.D

Acq: 17 Oct 2020 22:23

Instrument :

MSVOA_U

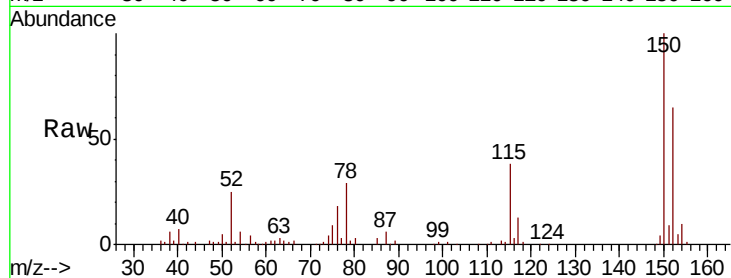
ClientSampleId :

Tot Ion: 75 Resp: 6913

Ion Ratio Lower Upper

75 100

77 38.6 26.4 39.6



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

