

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052820\
 Data File : VU038345.D
 Acq On : 28 May 2020 15:08
 Operator : JC/MD
 Sample : L2756-05MS 200X
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: May 29 04:33:08 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM052820WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri May 29 04:31:03 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	544002	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	520821	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	254877	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	217148	63.59	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	127.18%
7) Chloroethane-d5	1.93	69	164253	62.25	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	124.50%
11) 1,1-Dichloroethene-d2	2.59	63	393508	56.38	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	112.76%
21) 2-Butanone-d5	4.66	46	398331	122.77	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	122.77%
24) Chloroform-d	5.10	84	390846	58.28	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	116.56%
26) 1,2-Dichloroethane-d4	5.74	65	266142	57.91	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	115.82%
32) Benzene-d6	5.76	84	825526	61.00	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	122.00%
36) 1,2-Dichloropropane-d6	6.72	67	252286	60.14	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	120.28%#
41) Toluene-d8	7.92	98	724167	60.54	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	121.08%#
43) trans-1,3-Dichloropropene-	8.20	79	123582	59.17	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	118.34%
47) 2-Hexanone-d5	8.66	63	289605	131.12	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	131.12%#
57) 1,1,2,2-Tetrachloroethane-	10.78	84	349004	56.22	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	112.44%
64) 1,2-Dichlorobenzene-d4	12.21	152	286027	60.54	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	121.08%#

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
10) 1,1,2-Trichloro-1,2,2-trif	2.59	101	3817	1.143	ug/L #	24
16) Methylene chloride	3.08	84	36160	9.541	ug/L	96
19) 1,1-Dichloroethane	3.91	63	44989	6.706	ug/L	96
20) cis-1,2-Dichloroethene	4.71	96	712900	183.688	ug/L	97
27) 1,2-Dichloroethane	5.81	62	6042	1.082	ug/L #	74
30) 1,1,1-Trichloroethane	5.35	97	262956	46.431	ug/L	99
31) Carbon tetrachloride	5.35	117	33637	7.126	ug/L	98
33) Benzene	5.81	78	611209	41.784	ug/L	100
34) Trichloroethene	6.57	95	151988	40.611	ug/L	97
40) 4-Methyl-2-pentanone	7.82	43	15869	2.630	ug/L	97
42) Toluene	8.00	91	1088837	70.902	ug/L	99
44) trans-1,3-Dichloropropene	8.20	75	5797	1.026	ug/L	88
48) 2-Hexanone	8.71	43	17962	3.526	ug/L	95
51) Chlorobenzene	9.47	112	395956	40.118	ug/L	99
52) Ethylbenzene	9.59	91	88198	5.126	ug/L	96
53) m,p-Xylene	9.71	106	65079	9.890	ug/L	98
54) o-xylene	10.12	106	24677	3.857	ug/L	91

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Quant Title : VOC Analysis
QLast Update : Fri May 29 04:31:03 2020
Response via : Initial Calibration

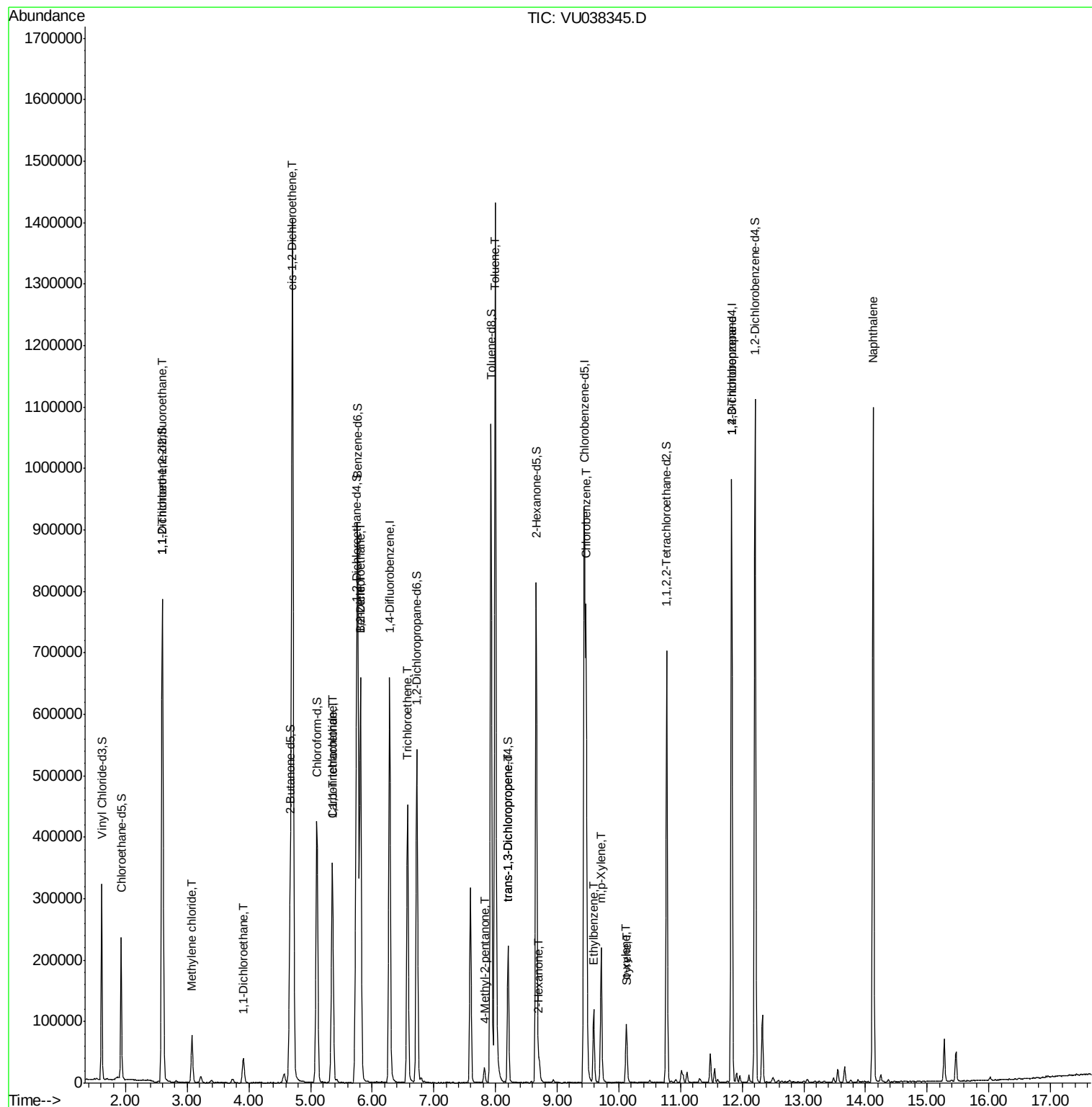
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
55) Styrene	10.14	104	10903	0.992	ug/L	96
59) 1,2,3-Trichloropropane	11.83	75	32401	6.108	ug/L	91
69) Naphthalene	14.12	128	857882	47.110	ug/L	100

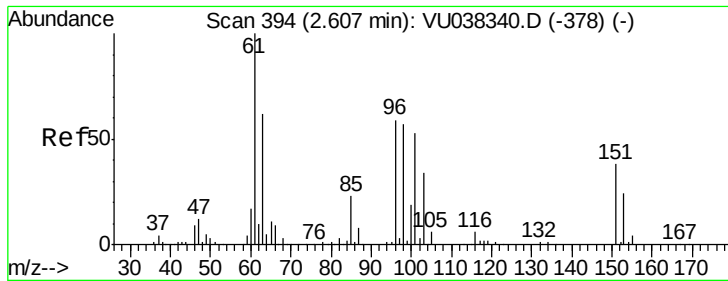
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#10

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

Concen: 1.143 ug/L

RT: 2.59 min Scan# 390

Delta R.T. -0.01 min

Lab File: VU038345.D

Acq: 28 May 2020 15:08

Instrument :

MSVOA_U

ClientSampled :

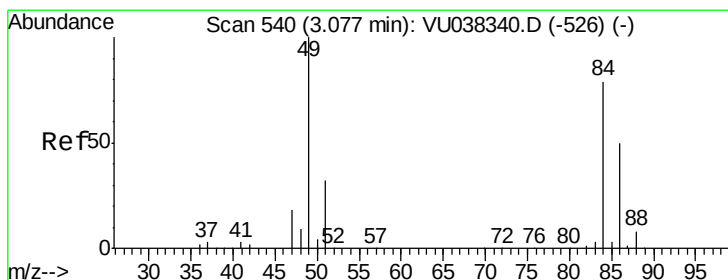
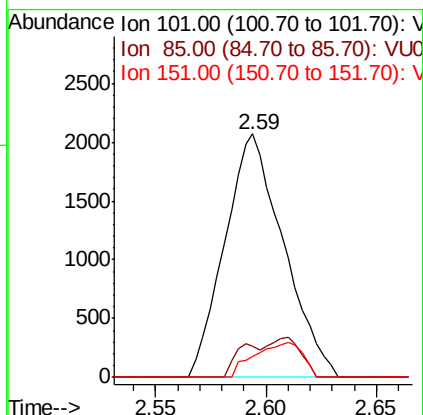
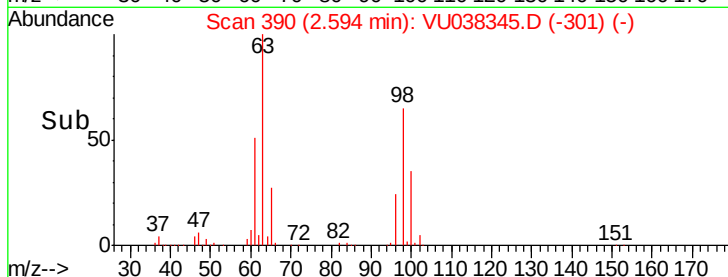
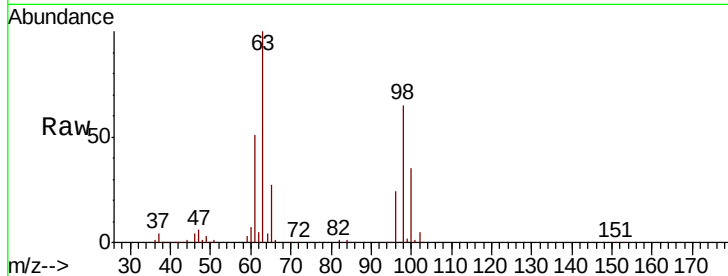
Tot Ion:101 Resp: 3817

Ion Ratio Lower Upper

101 100

85 6.0 35.5 53.3#

151 0.0 58.4 87.6#



#16

Methylene chloride

Concen: 9.541 ug/L

RT: 3.08 min Scan# 540

Delta R.T. -0.00 min

Lab File: VU038345.D

Acq: 28 May 2020 15:08

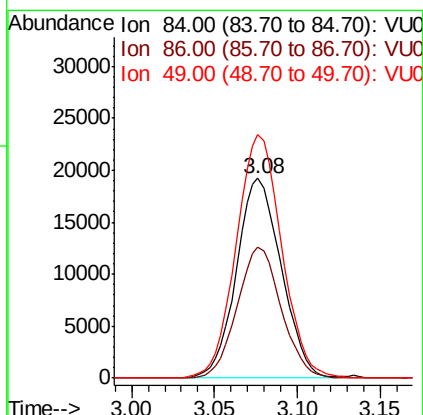
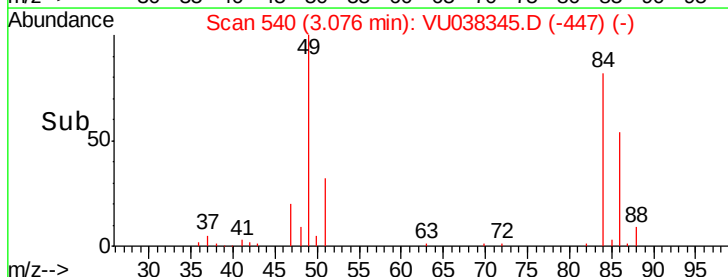
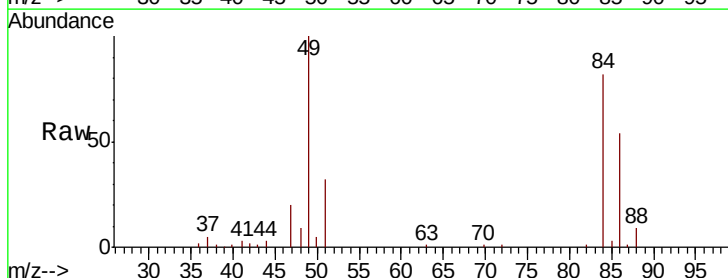
Tgt Ion: 84 Resp: 36160

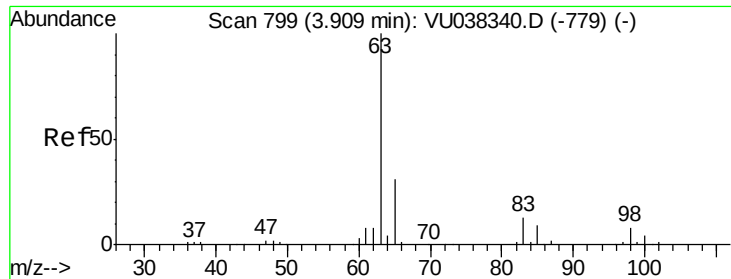
Ion Ratio Lower Upper

84 100

86 65.6 46.1 85.7

49 121.8 90.0 167.2

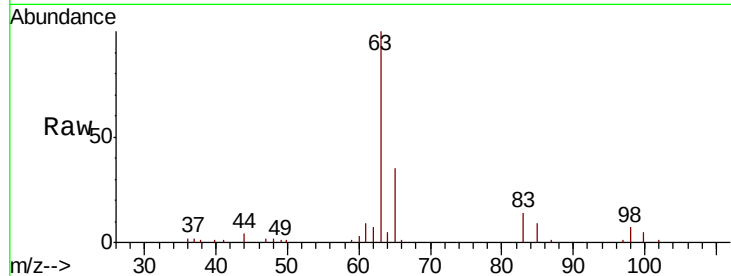




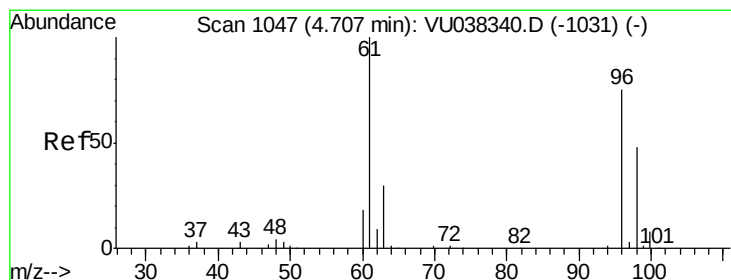
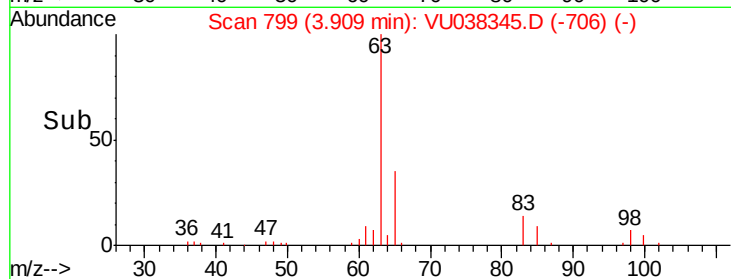
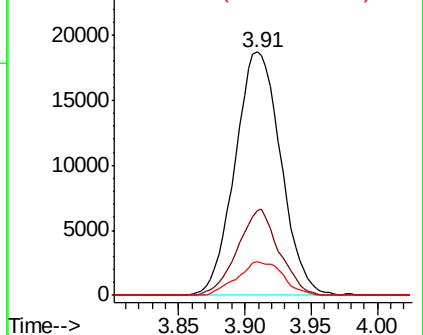
#19
 1,1-Dichloroethane
 Concen: 6.706 ug/L
 RT: 3.91 min Scan# 799
 Delta R.T. -0.00 min
 Lab File: VU038345.D
 Acq: 28 May 2020 15:08

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 63 Resp: 44989
 Ion Ratio Lower Upper
 63 100
 65 34.7 22.2 41.2
 83 13.9 9.4 17.4

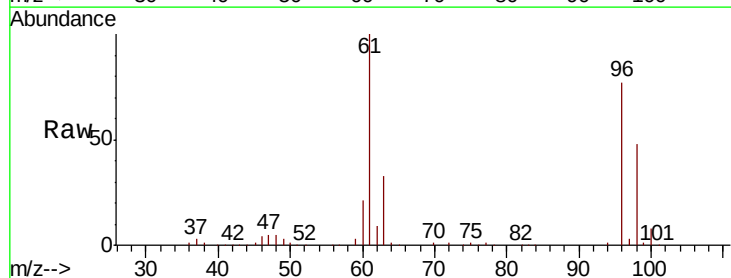


Abundance Ion 63.00 (62.70 to 63.70): VU0
 Ion 65.00 (64.70 to 65.70): VU0
 Ion 83.00 (82.70 to 83.70): VU0

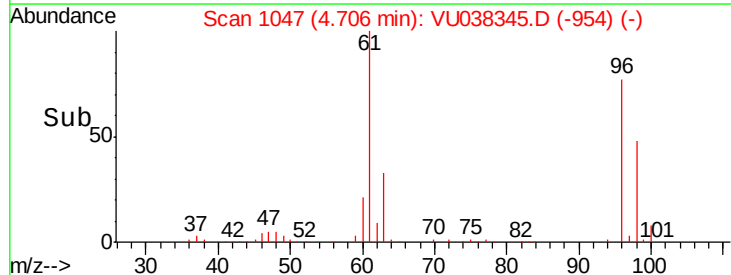
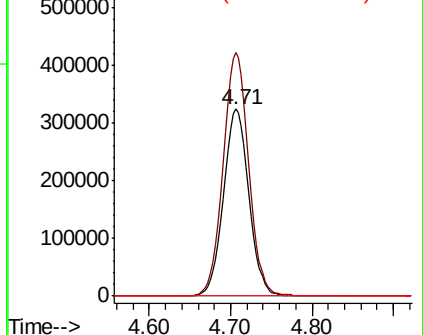


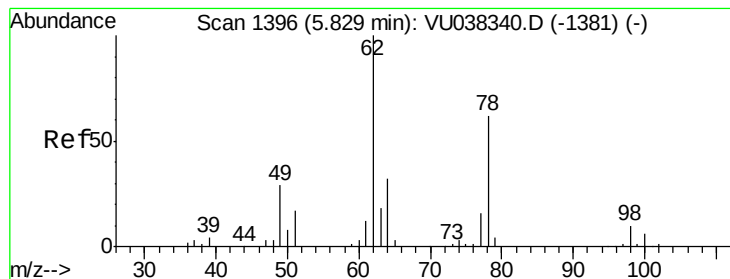
#20
 cis-1,2-Dichloroethene
 Concen: 183.688 ug/L
 RT: 4.71 min Scan# 1047
 Delta R.T. -0.00 min
 Lab File: VU038345.D
 Acq: 28 May 2020 15:08

Tgt Ion: 96 Resp: 712900
 Ion Ratio Lower Upper
 96 100
 61 130.2 93.4 173.4
 68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.00 (60.70 to 61.70): VU0
 Ion 68.00 (67.70 to 68.70): VU0





#27

1,2-Dichloroethane

Concen: 1.082 ug/L

RT: 5.81 min Scan# 1390

Delta R.T. -0.02 min

Lab File: VU038345.D

Acq: 28 May 2020 15:08

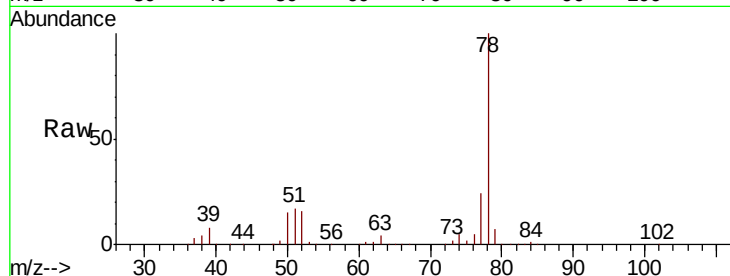
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 62 Resp: 6042

Ion Ratio Lower Upper

62 100

98 0.0 7.5 11.3#

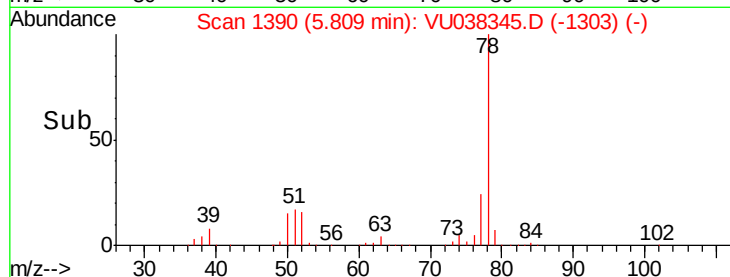


Abundance Ion 62.00 (61.70 to 62.70): VU038340.D (-1381) (-)

Ion 98.00 (97.70 to 98.70): VU038340.D (-1381) (-)

5.81

Time-->

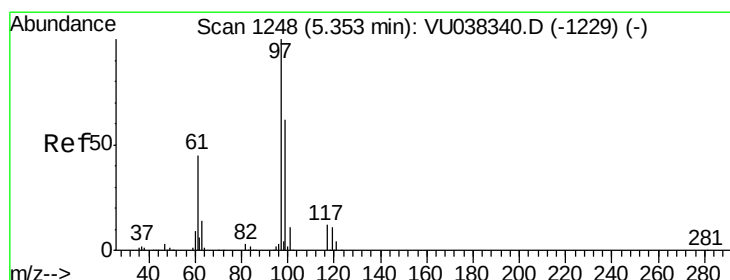


Abundance Ion 62.00 (61.70 to 62.70): VU038345.D (-1303) (-)

Ion 98.00 (97.70 to 98.70): VU038345.D (-1303) (-)

5.81

Time-->



#30

1,1,1-Trichloroethane

Concen: 46.431 ug/L

RT: 5.35 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VU038345.D

Acq: 28 May 2020 15:08

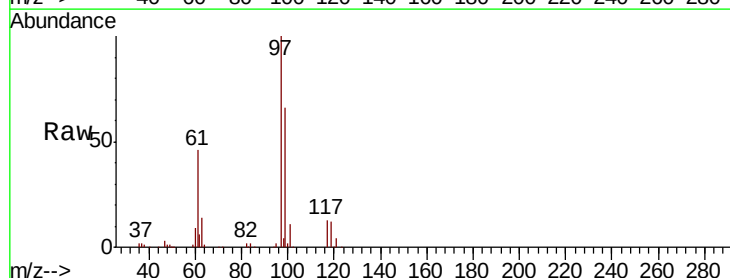
Tgt Ion: 97 Resp: 262956

Ion Ratio Lower Upper

97 100

99 64.7 51.2 76.8

61 45.7 35.9 53.9



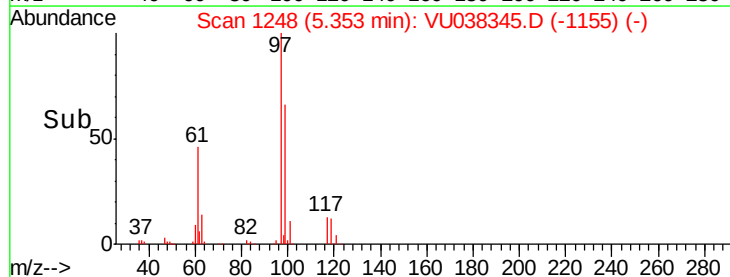
Abundance Ion 97.00 (96.70 to 97.70): VU038340.D (-1229) (-)

Ion 99.00 (98.70 to 99.70): VU038340.D (-1229) (-)

Ion 61.05 (60.75 to 61.75): VU038340.D (-1229) (-)

5.35

Time-->



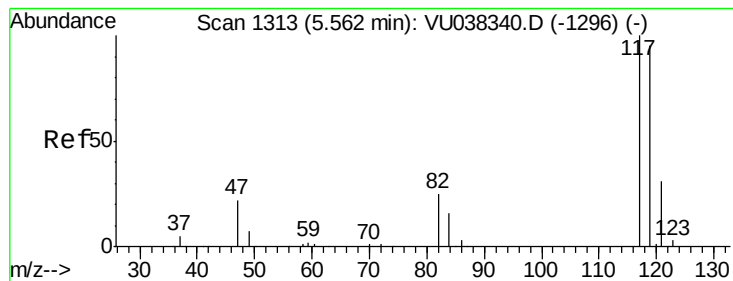
Abundance Ion 97.00 (96.70 to 97.70): VU038345.D (-1155) (-)

Ion 99.00 (98.70 to 99.70): VU038345.D (-1155) (-)

Ion 61.05 (60.75 to 61.75): VU038345.D (-1155) (-)

5.35

Time-->



#31

Carbon tetrachloride

Concen: 7.126 ug/L

RT: 5.35 min Scan# 1248

Delta R.T. -0.21 min

Lab File: VU038345.D

Acq: 28 May 2020 15:08

Instrument :

MSVOA_U

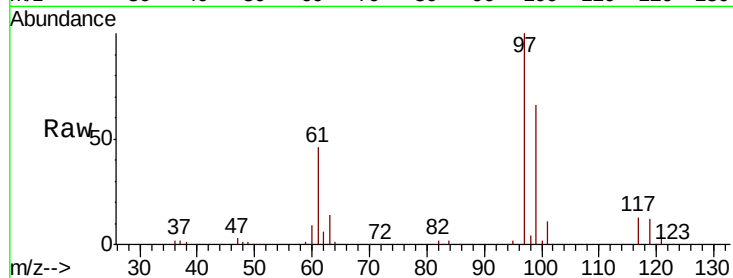
ClientSampleId :

Tot Ion:117 Resp: 33637

Ion Ratio Lower Upper

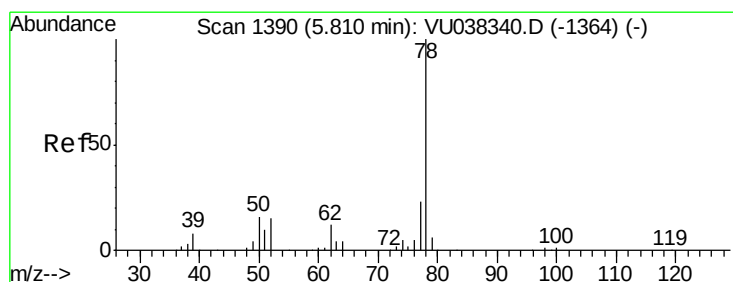
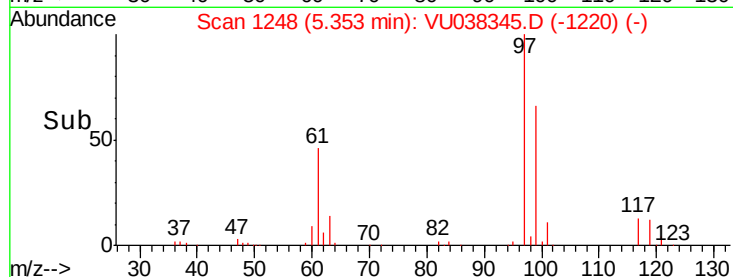
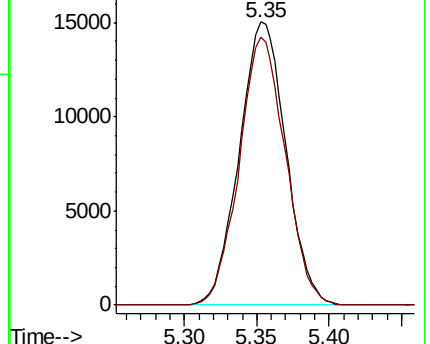
117 100

119 93.3 76.6 114.8



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 41.784 ug/L

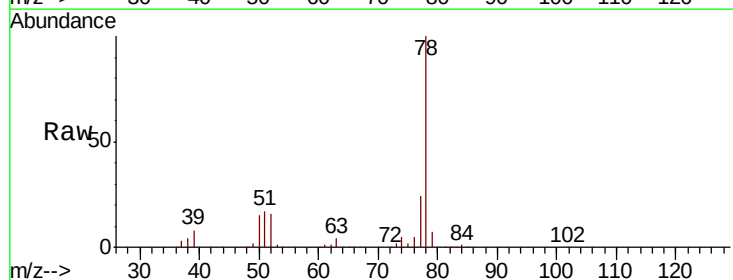
RT: 5.81 min Scan# 1390

Delta R.T. -0.00 min

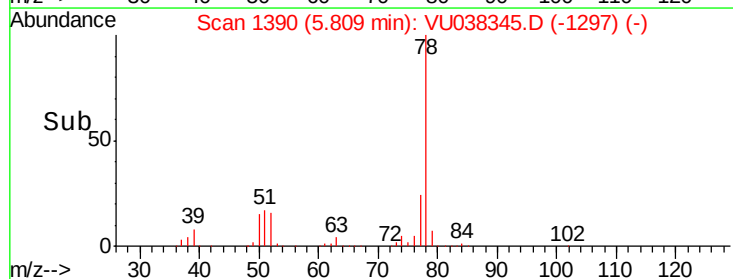
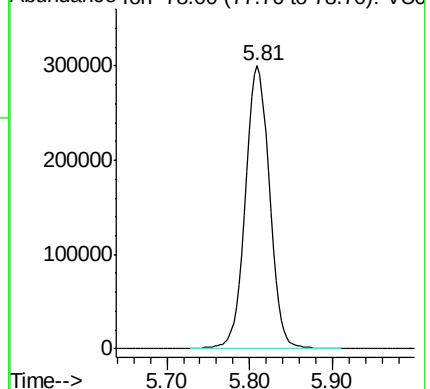
Lab File: VU038345.D

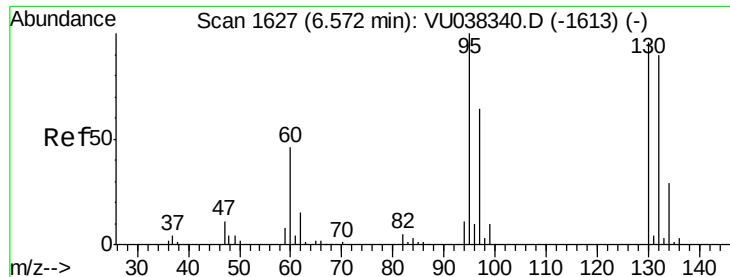
Acq: 28 May 2020 15:08

Tgt Ion: 78 Resp: 611209



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 40.611 ug/L

RT: 6.57 min Scan# 1628

Delta R.T. 0.00 min

Lab File: VU038345.D

Acq: 28 May 2020 15:08

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 95 Resp: 151988

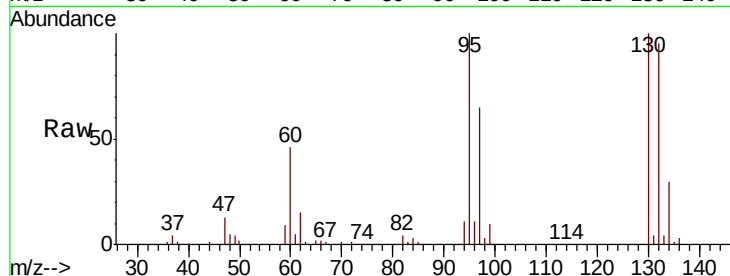
Ion Ratio Lower Upper

95 100

97 65.7 44.3 82.3

132 95.2 64.7 120.1

130 100.3 68.5 127.1

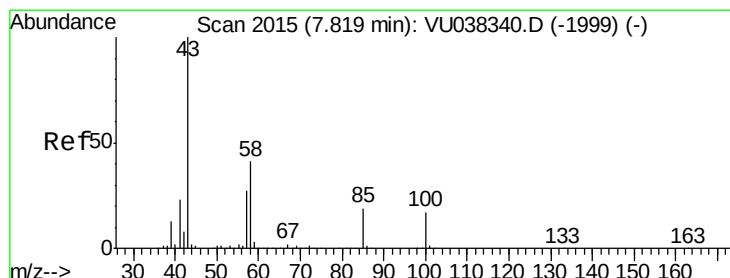
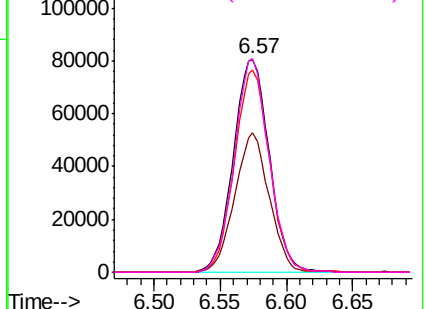
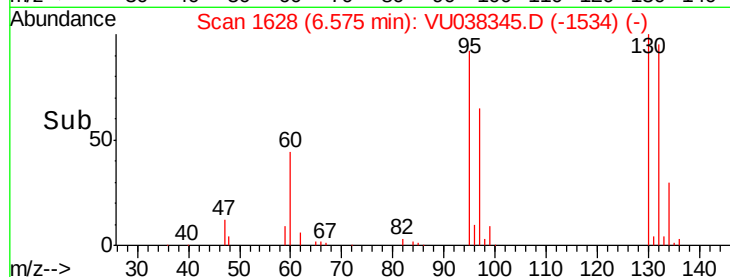


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#40

4-Methyl-2-pentanone

Concen: 2.630 ug/L

RT: 7.82 min Scan# 1515

Delta R.T. -0.00 min

Lab File: VU038345.D

Acq: 28 May 2020 15:08

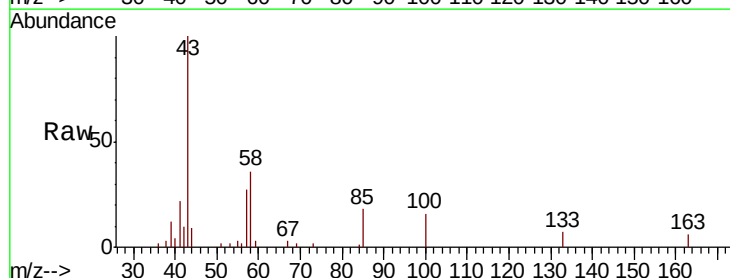
Tgt Ion: 43 Resp: 15869

Ion Ratio Lower Upper

43 100

58 38.6 32.6 48.8

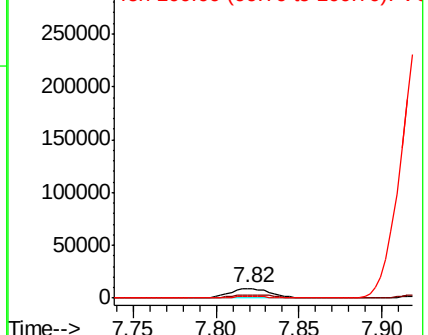
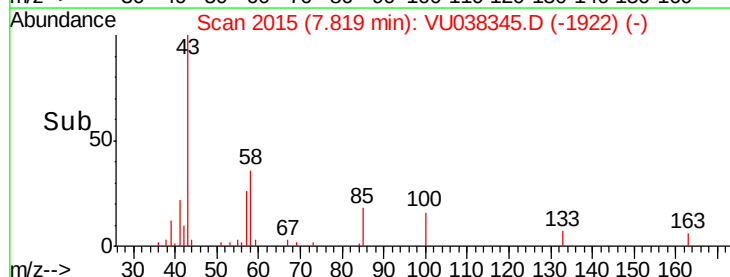
100 15.7 12.9 19.3

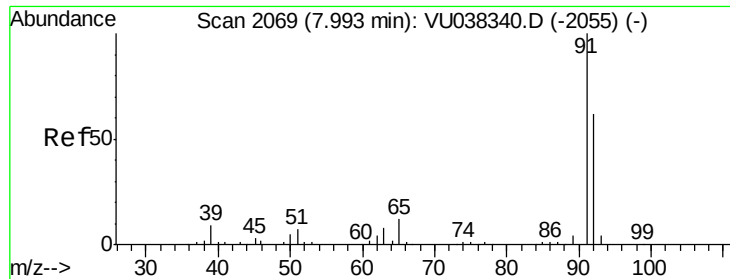


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

Ion 100.00 (99.70 to 100.70): VU





#42

Toluene

Concen: 70.902 ug/L

RT: 8.00 min Scan# 2070

Delta R.T. 0.00 min

Lab File: VU038345.D

Acq: 28 May 2020 15:08

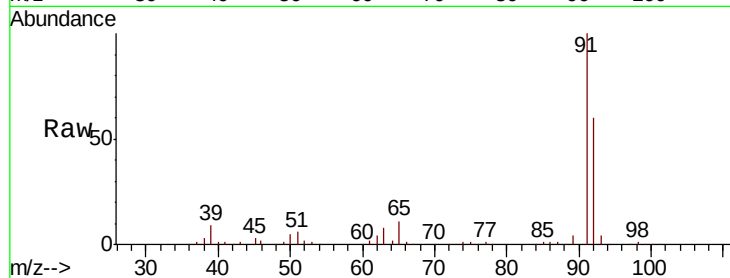
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 91 Resp: 1088837

Ion Ratio Lower Upper

91 100

92 59.6 42.0 78.0



Abundance Ion 91.00 (90.70 to 91.70): VU038340.D (-2055) (-)

Ion 92.00 (91.70 to 92.70): VU038340.D (-2055) (-)

8.00

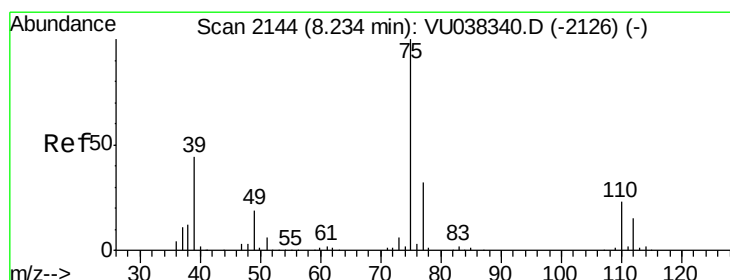
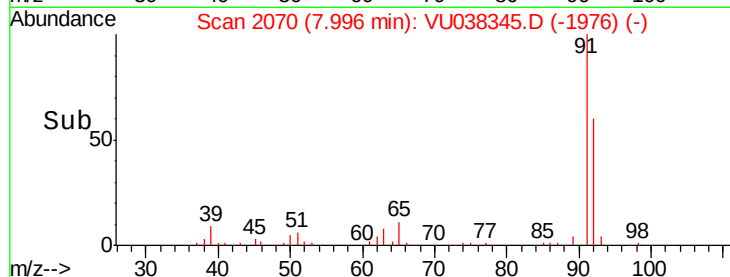
600000

400000

200000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 1.026 ug/L

RT: 8.20 min Scan# 2134

Delta R.T. -0.03 min

Lab File: VU038345.D

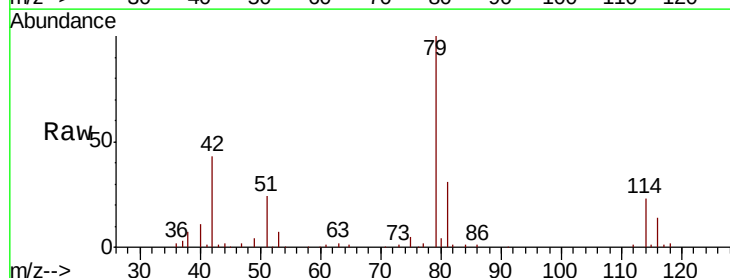
Acq: 28 May 2020 15:08

Tgt Ion: 75 Resp: 5797

Ion Ratio Lower Upper

75 100

77 38.4 22.1 41.1



Abundance Ion 75.00 (74.70 to 75.70): VU038340.D (-2126) (-)

Ion 77.00 (76.70 to 77.70): VU038340.D (-2126) (-)

8.20

4000

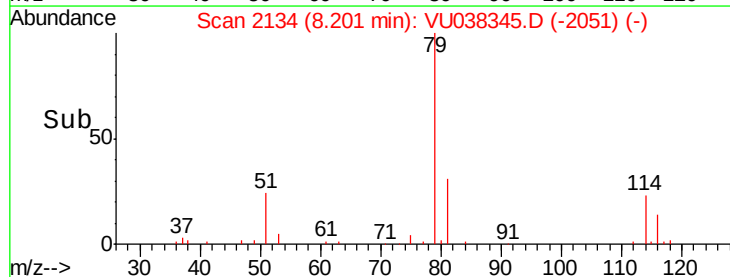
3000

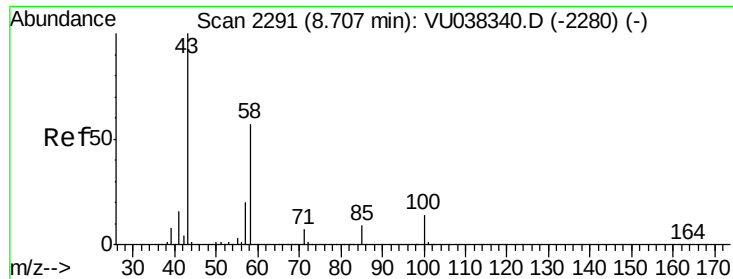
2000

1000

0

Time-->

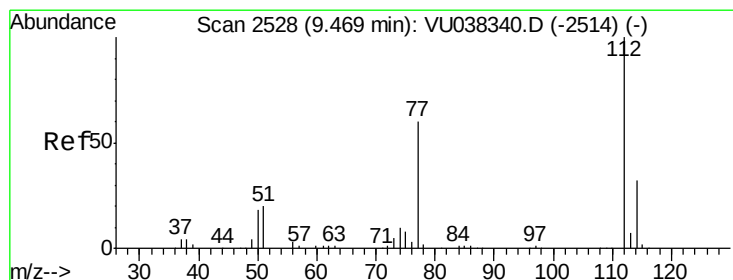
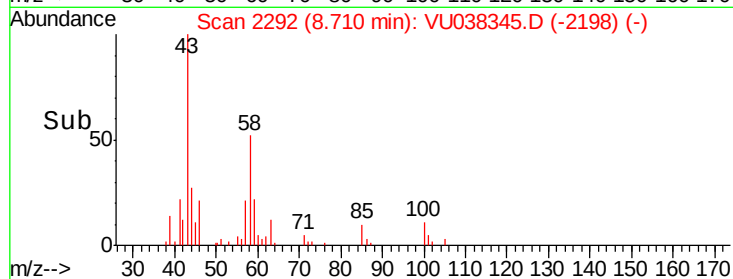
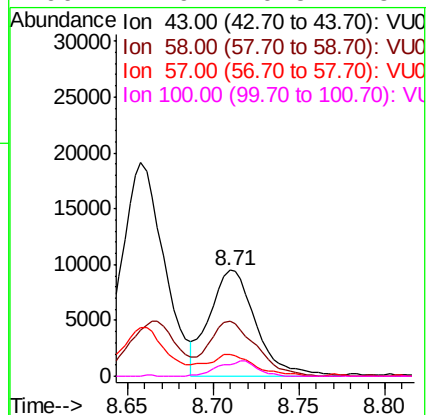
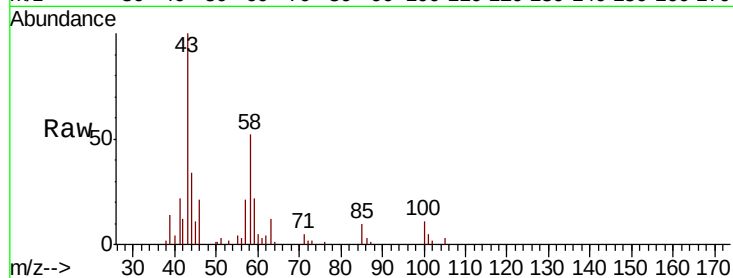




#48
2-Hexanone
Concen: 3.526 ug/L
RT: 8.71 min Scan# 2292
Delta R.T. 0.00 min
Lab File: VU038345.D
Acq: 28 May 2020 15:08

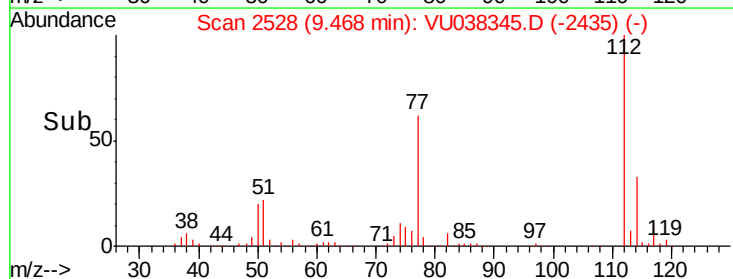
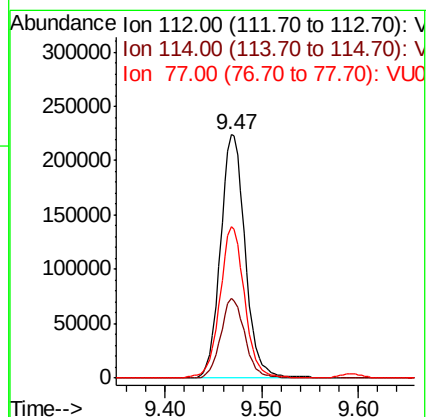
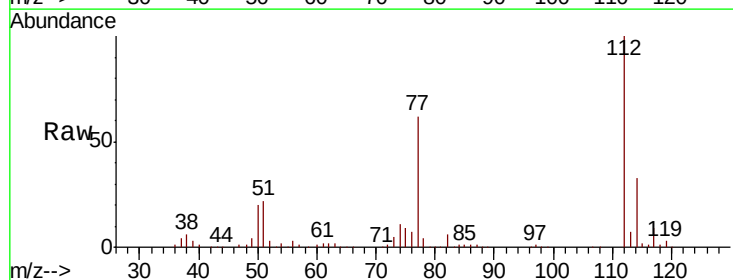
Instrument :
MSVOA_U
ClientSampled :

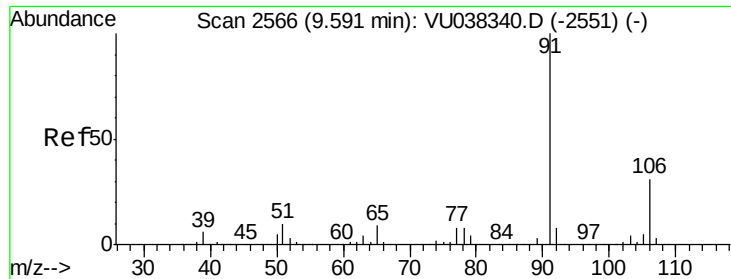
Tot Ion: 43 Resp: 17962
Ion Ratio Lower Upper
43 100
58 53.7 45.5 68.3
57 17.7 16.3 24.5
100 11.9 10.5 15.7



#51
Chlorobenzene
Concen: 40.118 ug/L
RT: 9.47 min Scan# 2528
Delta R.T. -0.00 min
Lab File: VU038345.D
Acq: 28 May 2020 15:08

Tgt Ion: 112 Resp: 395956
Ion Ratio Lower Upper
112 100
114 32.6 22.6 42.0
77 62.4 48.8 73.2

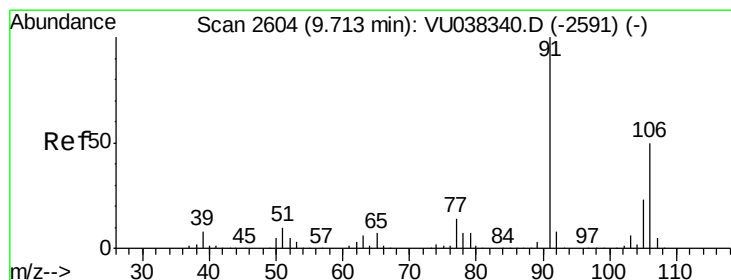
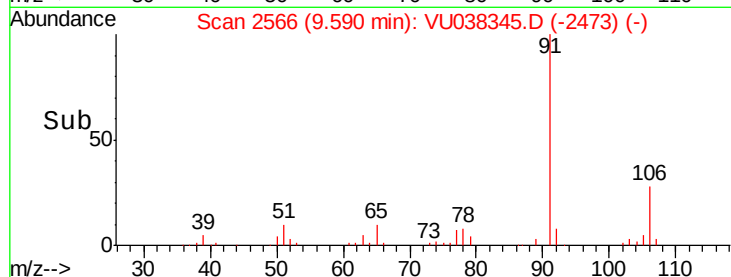
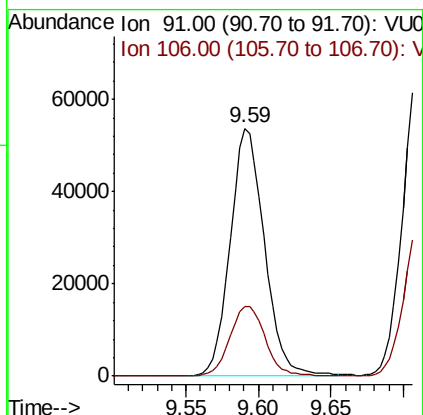
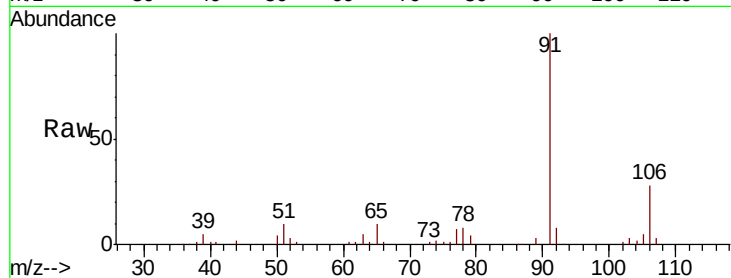




#52
Ethylbenzene
Concen: 5.126 ug/L
RT: 9.59 min Scan# 2566
Delta R.T. -0.00 min
Lab File: VU038345.D
Acq: 28 May 2020 15:08

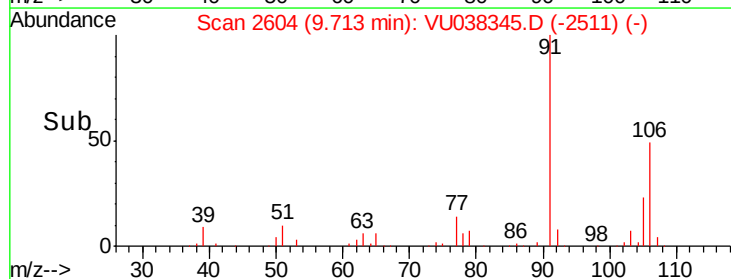
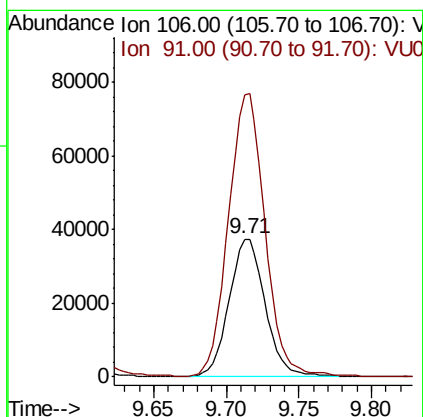
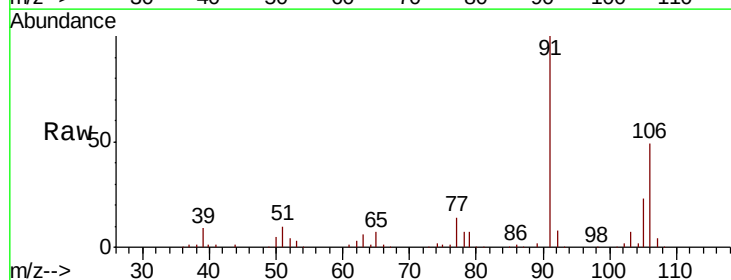
Instrument :
MSVOA_U
ClientSampled :

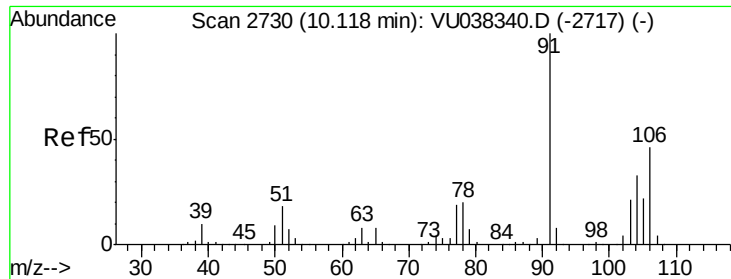
Tot Ion: 91 Resp: 88198
Ion Ratio Lower Upper
91 100
106 28.4 21.2 39.4



#53
m,p-Xylene
Concen: 9.890 ug/L
RT: 9.71 min Scan# 2604
Delta R.T. -0.00 min
Lab File: VU038345.D
Acq: 28 May 2020 15:08

Tgt Ion: 106 Resp: 65079
Ion Ratio Lower Upper
106 100
91 204.5 140.8 261.4





#54

o-xylene

Concen: 3.857 ug/L

RT: 10.12 min Scan# 2731

Delta R.T. 0.00 min

Lab File: VU038345.D

Acq: 28 May 2020 15:08

Instrument :

MSVOA_U

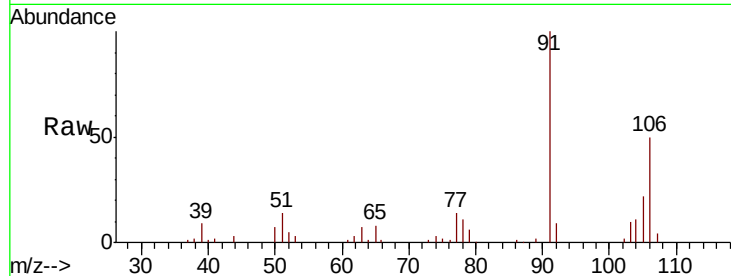
ClientSampled :

Tot Ion:106 Resp: 24677

Ion Ratio Lower Upper

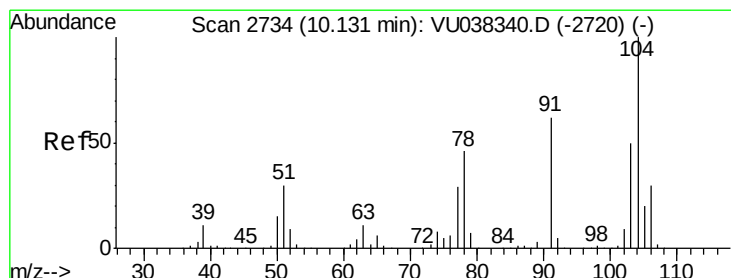
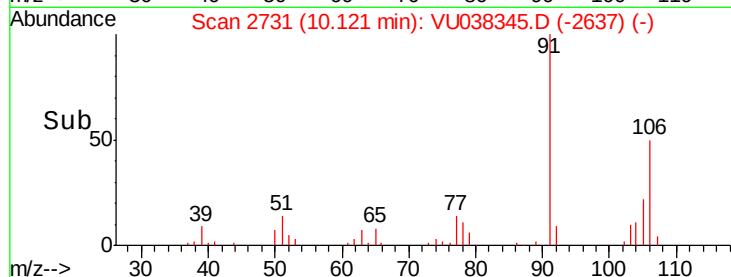
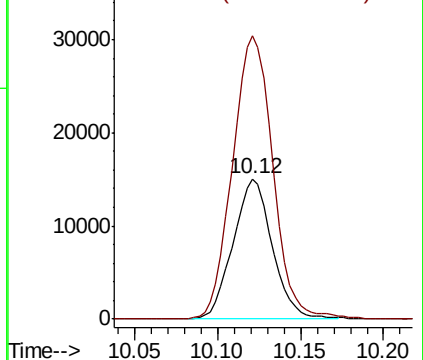
106 100

91 201.7 151.3 280.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 0.992 ug/L

RT: 10.14 min Scan# 2736

Delta R.T. 0.01 min

Lab File: VU038345.D

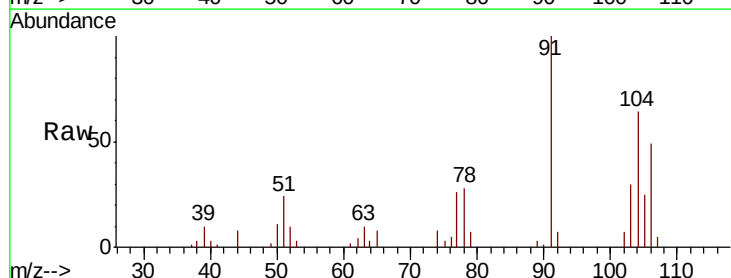
Acq: 28 May 2020 15:08

Tgt Ion:104 Resp: 10903

Ion Ratio Lower Upper

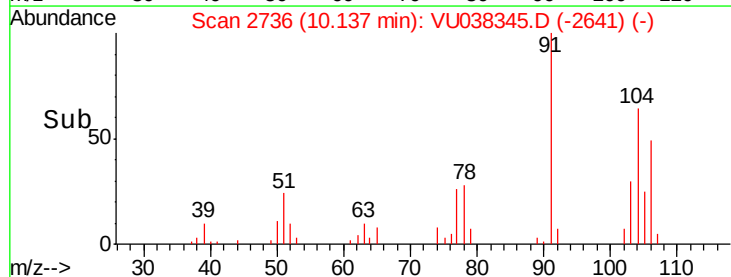
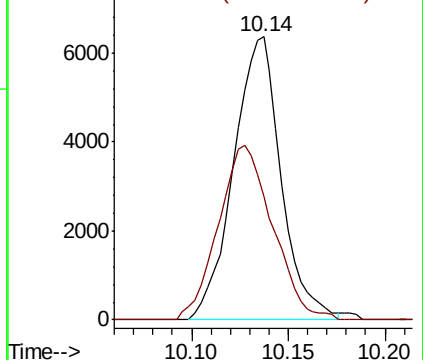
104 100

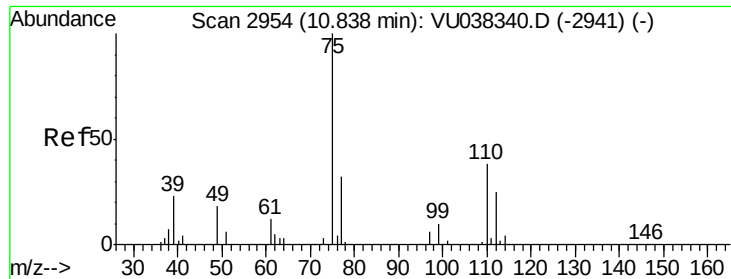
78 43.5 32.1 59.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#59

1,2,3-Trichloropropane

Concen: 6.108 ug/L

RT: 11.83 min Scan# 3262

Delta R.T. 0.99 min

Lab File: VU038345.D

Acq: 28 May 2020 15:08

Instrument :

MSVOA_U

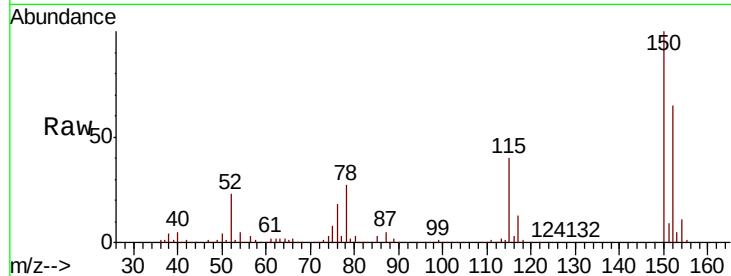
ClientSampled :

Tot Ion: 75 Resp: 32401

Ion Ratio Lower Upper

75 100

77 37.3 25.8 38.8



Abundance Ion 75.00 (74.70 to 75.70): VU038340.D (-2941) (-)

Ion 77.00 (76.70 to 77.70): VU038340.D (-2941) (-)

11.83

20000

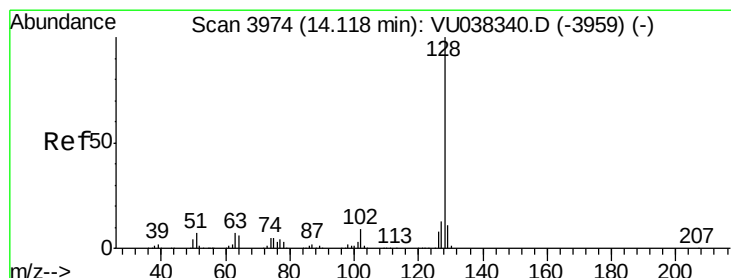
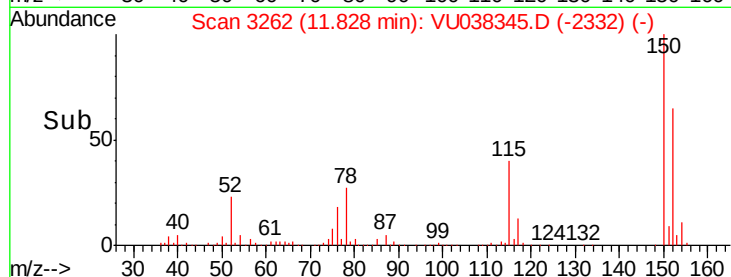
15000

10000

5000

0

Time--> 11.75 11.80 11.85 11.90



#69

Naphthalene

Concen: 47.110 ug/L

RT: 14.12 min Scan# 3976

Delta R.T. 0.01 min

Lab File: VU038345.D

Acq: 28 May 2020 15:08

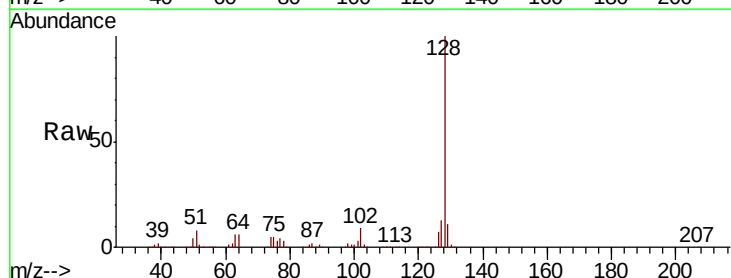
Tgt Ion: 128 Resp: 857882

Ion Ratio Lower Upper

128 100

127 13.1 10.4 15.6

129 10.7 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): VU038340.D (-3959) (-)

Ion 127.00 (126.70 to 127.70): VU038340.D (-3959) (-)

Ion 129.00 (128.70 to 129.70): VU038340.D (-3959) (-)

14.12

600000

400000

200000

0

Time--> 14.00 14.10 14.20

