

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW012324\
 Data File : VW033831.D
 Acq On : 23 Jan 2024 15:35
 Operator : SY/MD
 Sample : P1191-15
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Jan 24 02:04:58 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM011024WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed Jan 24 02:00:55 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Difluorobenzene	5.535	114	209795	50.000	ug/L	0.00
28) Chlorobenzene-d5	8.783	117	203057	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.185	152	106208	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.281	65	75599	46.887	ug/L	0.00
Spiked Amount 50.000	Range 60 - 135		Recovery =	93.780%		
7) Chloroethane-d5	1.532	69	55720	43.638	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	87.280%		
11) 1,1-Dichloroethene-d2	2.059	65	31904	45.977	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	91.960%		
21) 2-Butanone-d5	3.821	46	71869	64.985	ug/L	0.04
Spiked Amount 100.000	Range 40 - 130		Recovery =	64.980%		
24) Chloroform-d	4.249	84	117782	40.852	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	81.700%		
26) 1,2-Dichloroethane-d4	4.940	65	80734	43.339	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	86.680%		
32) Benzene-d6	4.960	84	228566	39.594	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	79.180%		
36) 1,2-Dichloropropane-d6	5.989	67	71929	37.853	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery =	75.700%		
41) Toluene-d8	7.243	98	217864	41.886	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	83.780%		
43) trans-1,3-Dichloroprop...	7.551	79	38238	40.717	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	81.440%		
47) 2-Hexanone-d5	8.021	63	54071	68.600	ug/L	0.00
Spiked Amount 100.000	Range 45 - 130		Recovery =	68.600%		
56) 1,1,2,2-Tetrachloroeth...	10.152	84	94635	39.011	ug/L	0.00
Spiked Amount 50.000	Range 65 - 120		Recovery =	78.020%		
66) 1,2-Dichlorobenzene-d4	11.561	152	89072	44.203	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	88.400%		
Target Compounds						Qvalue
5) Vinyl chloride	1.285	62	1454250	765.945	ug/L	97
8) Chloroethane	1.285	64	581771	513.869	ug/L #	44
12) 1,1-Dichloroethene	2.072	96	25749	20.451	ug/L #	54
13) Acetone	2.114	43	3897	3.685	ug/L	95
14) Carbon disulfide	2.246	76	14017	3.275	ug/L	100
17) trans-1,2-Dichloroethene	2.693	96	761224	541.235	ug/L	96
18) Methyl tert-butyl Ether	2.703	73	4236	0.837	ug/L	98
20) cis-1,2-Dichloroethene	3.821	96	22037387	14078.430	ug/L	75
34) Trichloroethene	5.831	95	2008387	1255.358	ug/L	98
39) cis-1,3-Dichloropropene	6.911	75	2655	0.969	ug/L #	81
44) trans-1,3-Dichloropropene	7.551	75	1874	0.742	ug/L #	68
45) 1,1,2-Trichloroethane	7.776	97	3188	2.141	ug/L	93
46) Tetrachloroethene	7.905	164	1463647	1247.299	ug/L	99
57) 1,1,2,2-Tetrachloroethane	10.178	83	12877	5.434	ug/L #	98
60) Isopropylbenzene	10.677	105	6895	0.960	ug/L	93
62) 1,3,5-Trimethylbenzene	10.477	105	11766	1.908	ug/L	100
63) 1,2,4-Trimethylbenzene	10.853	105	29192	4.752	ug/L	97
71) Naphthalene	13.445	128	6070	1.067	ug/L	98

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QLast Update : Wed Jan 24 02:00:55 2024
Response via : Initial Calibration

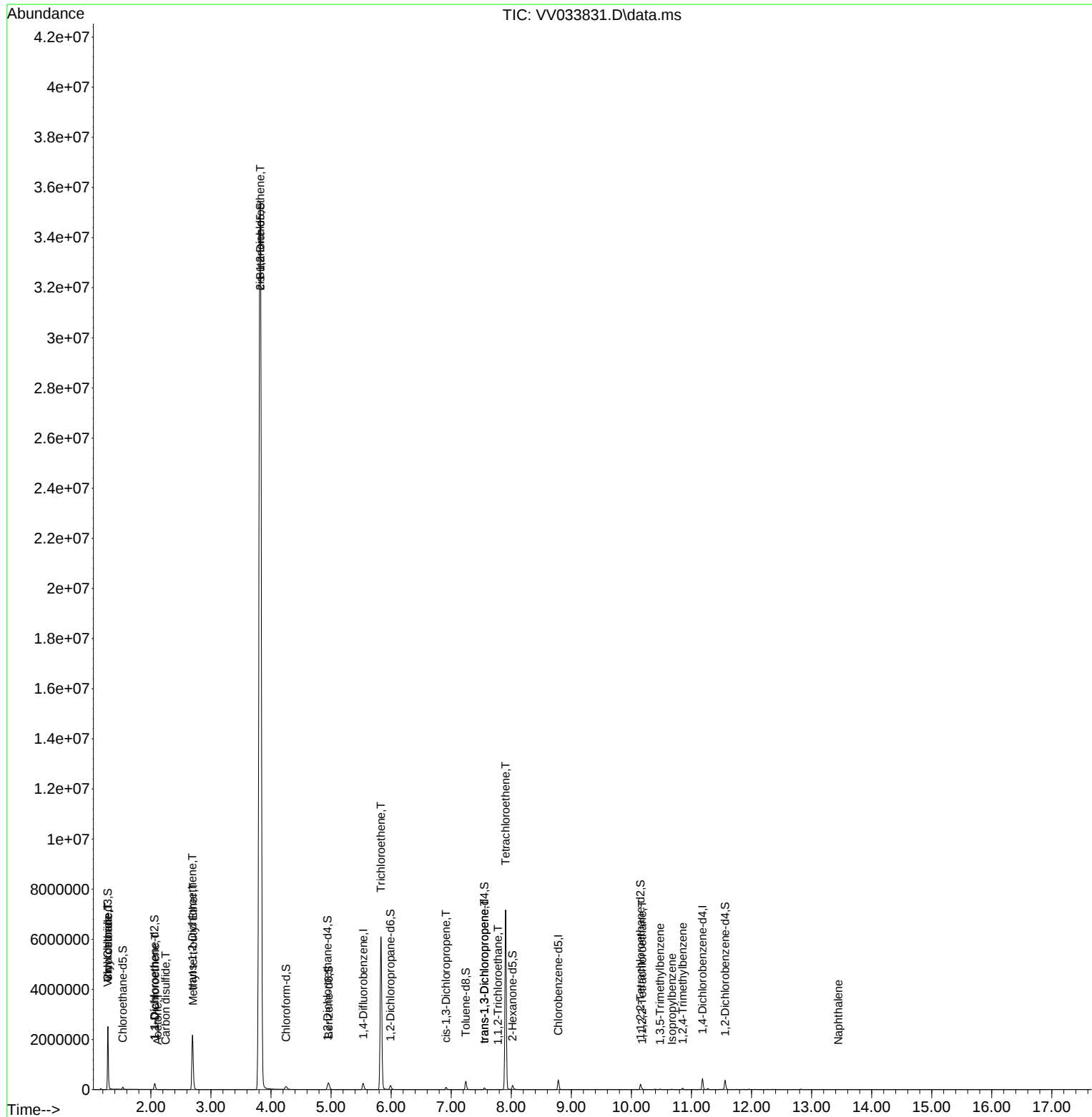
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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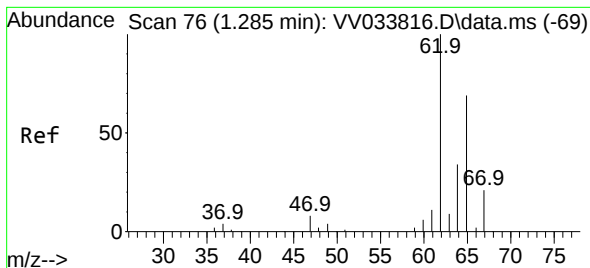
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 765.945 ug/L

RT: 1.285 min Scan# 76

Delta R.T. -0.000 min

Lab File: VV033831.D

Acq: 23 Jan 2024 15:35

Instrument :

MSVOA_V

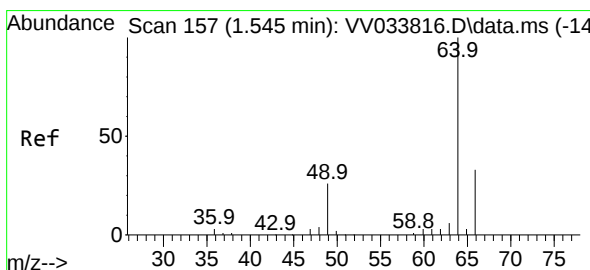
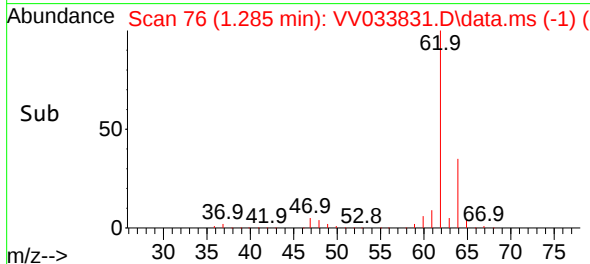
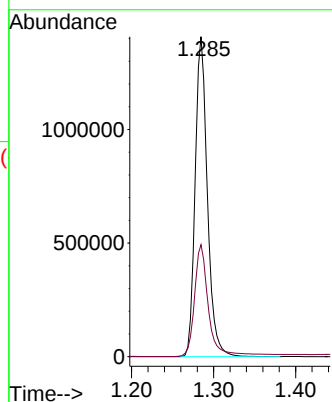
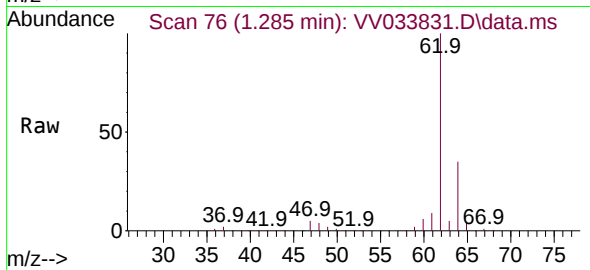
ClientSampleId :

Tgt Ion: 62 Resp: 1454250

Ion Ratio Lower Upper

62 100

64 35.0 23.2 43.0



#8

Chloroethane

Concen: 513.869 ug/L

RT: 1.285 min Scan# 76

Delta R.T. -0.261 min

Lab File: VV033831.D

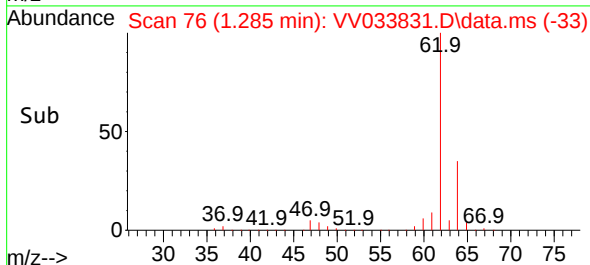
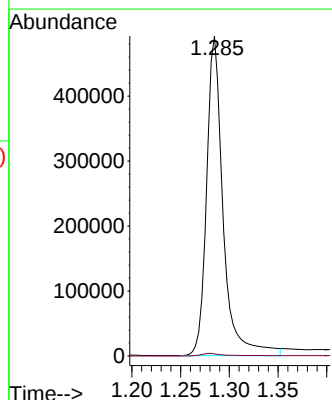
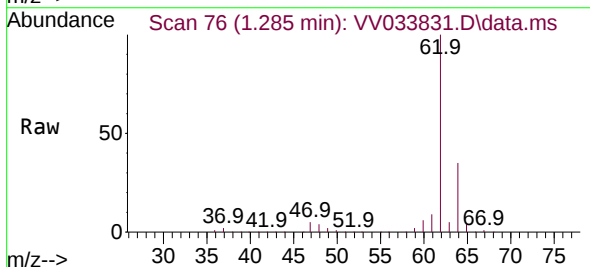
Acq: 23 Jan 2024 15:35

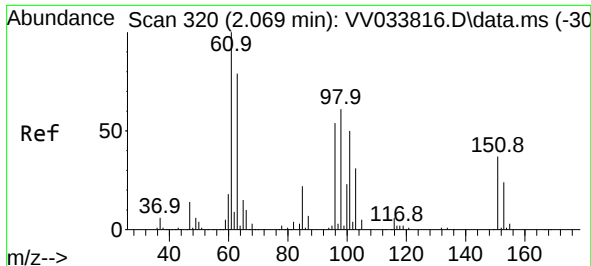
Tgt Ion: 64 Resp: 581771

Ion Ratio Lower Upper

64 100

66 0.7 22.5 41.9





#12

1,1-Dichloroethene

Concen: 20.451 ug/L

RT: 2.072 min Scan# 31

Delta R.T. 0.003 min

Lab File: VV033831.D

Acq: 23 Jan 2024 15:35

Instrument :

MSVOA_V

ClientSampleId :

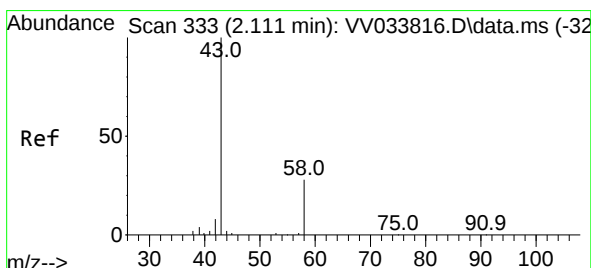
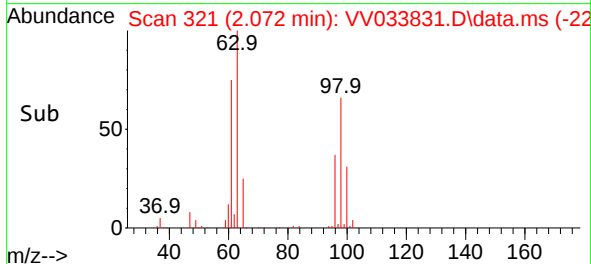
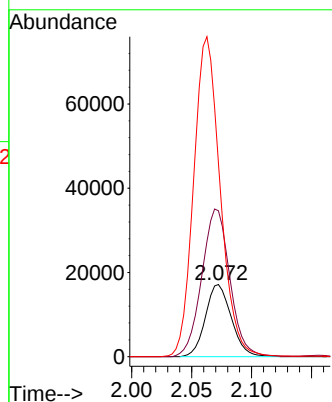
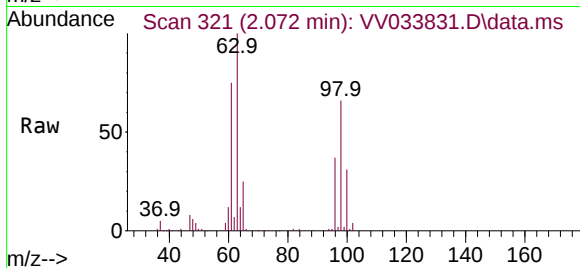
Tgt Ion: 96 Resp: 25749

Ion Ratio Lower Upper

96 100

61 202.4 134.0 248.8

63 268.5 103.4 192.0#



#13

Acetone

Concen: 3.685 ug/L

RT: 2.114 min Scan# 334

Delta R.T. 0.003 min

Lab File: VV033831.D

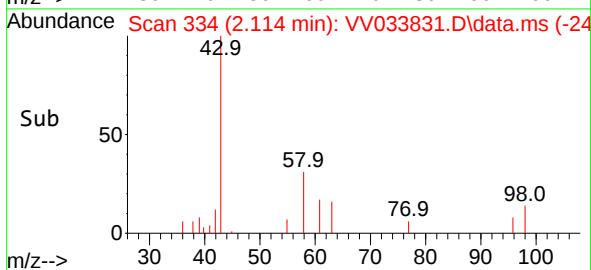
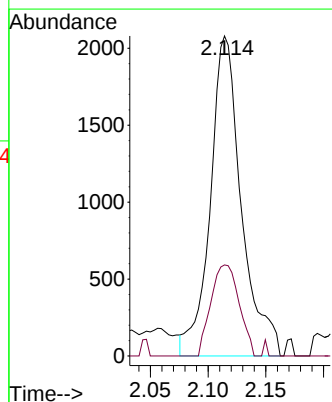
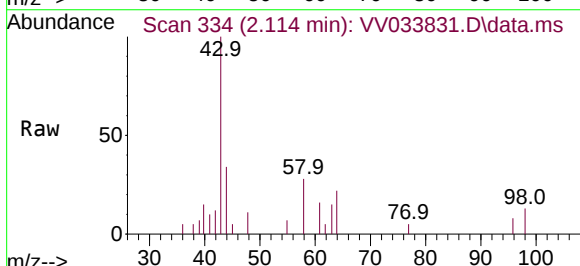
Acq: 23 Jan 2024 15:35

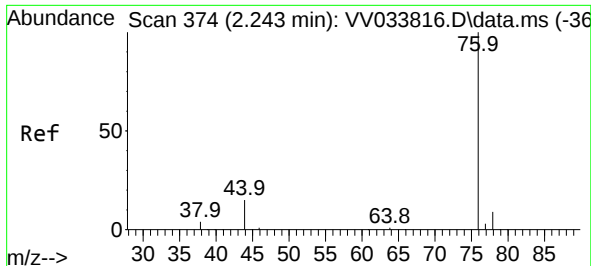
Tgt Ion: 43 Resp: 3897

Ion Ratio Lower Upper

43 100

58 25.9 0.0 57.2





#14

Carbon disulfide

Concen: 3.275 ug/L

RT: 2.246 min Scan# 31

Delta R.T. 0.003 min

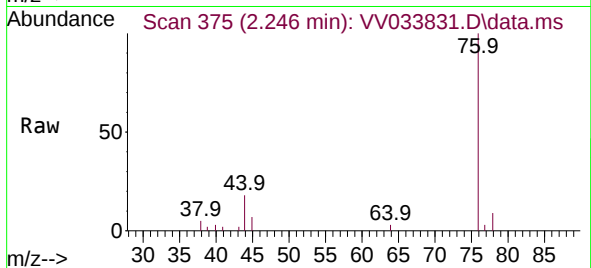
Lab File: VV033831.D

Acq: 23 Jan 2024 15:35

Instrument :

MSVOA_V

ClientSampleId :

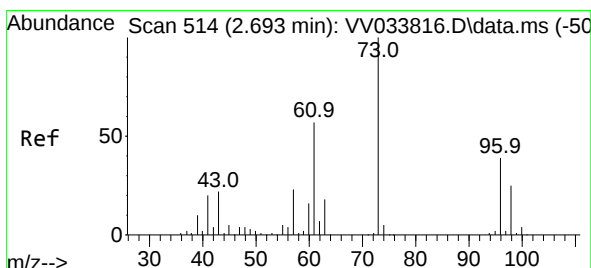
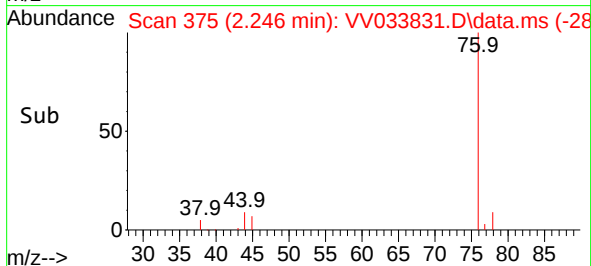
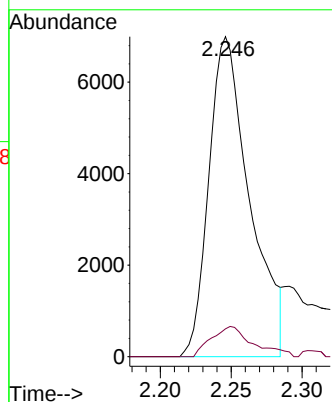


Tgt Ion: 76 Resp: 14017

Ion Ratio Lower Upper

76 100

78 8.7 7.1 10.7



#17

trans-1,2-Dichloroethene

Concen: 541.235 ug/L

RT: 2.693 min Scan# 514

Delta R.T. -0.000 min

Lab File: VV033831.D

Acq: 23 Jan 2024 15:35

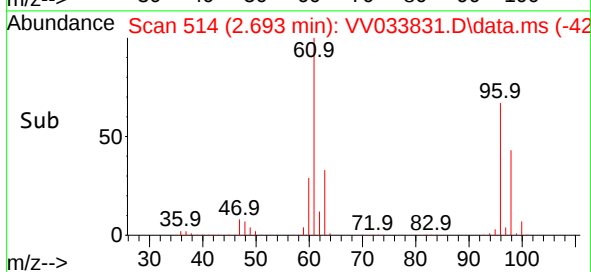
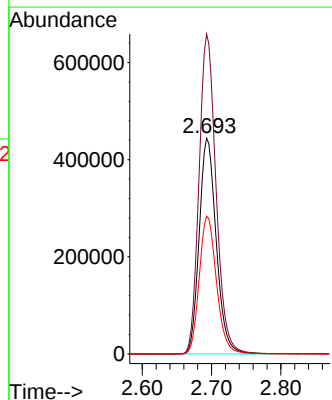
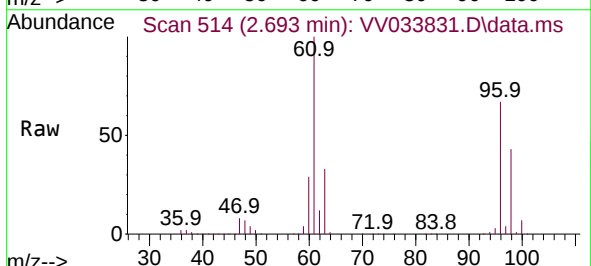
Tgt Ion: 96 Resp: 761224

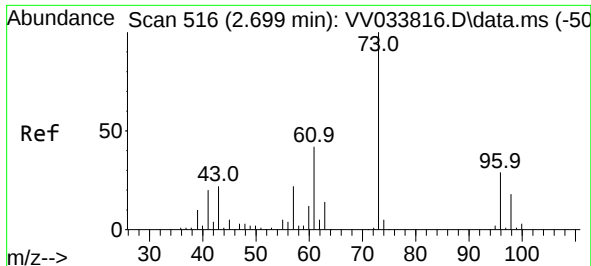
Ion Ratio Lower Upper

96 100

61 148.3 108.4 201.4

98 63.8 43.8 81.4

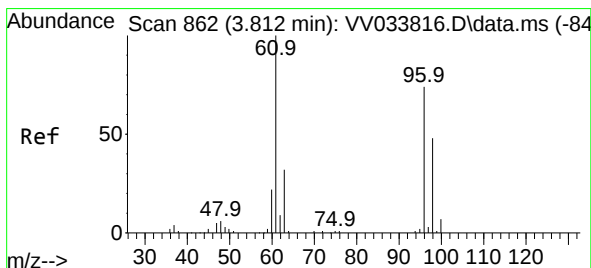
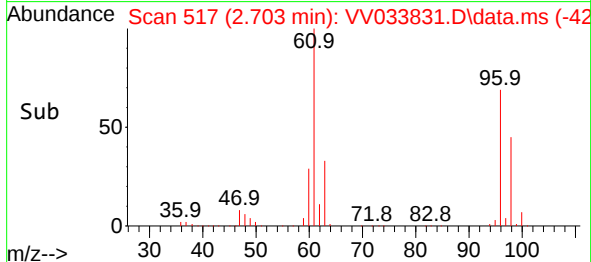
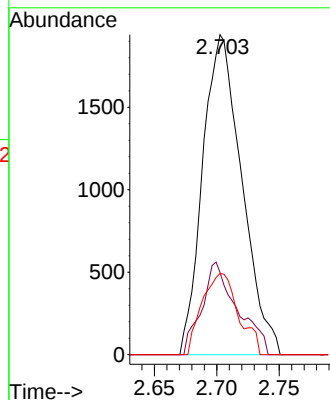
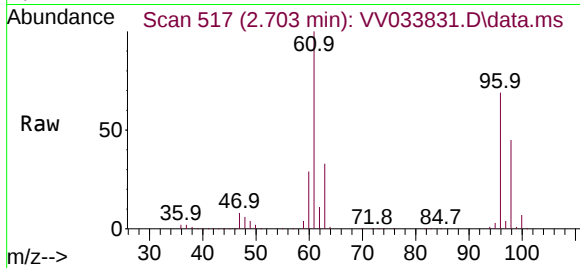




#18
Methyl tert-butyl Ether
Concen: 0.837 ug/L
RT: 2.703 min Scan# 516
Delta R.T. 0.003 min
Lab File: VV033831.D
Acq: 23 Jan 2024 15:35

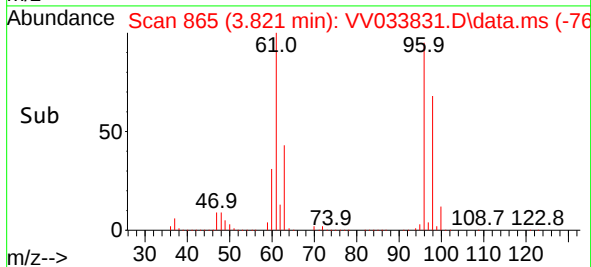
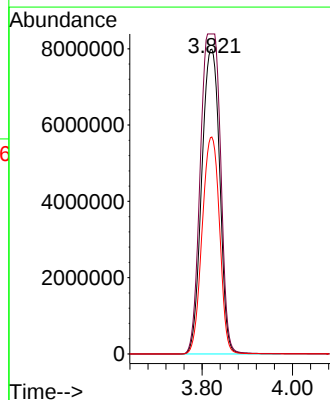
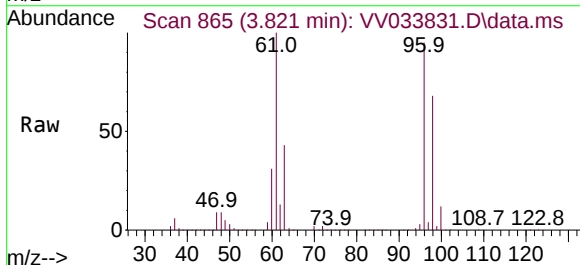
Instrument :
MSVOA_V
ClientSampleId :

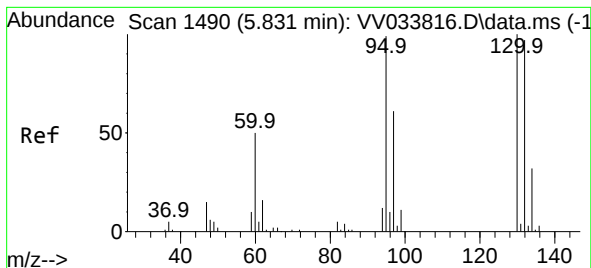
Tgt Ion: 73 Resp: 4236
Ion Ratio Lower Upper
73 100
43 22.4 17.4 26.2
57 21.4 18.6 27.8



#20
cis-1,2-Dichloroethene
Concen: 14078.430 ug/L
RT: 3.821 min Scan# 865
Delta R.T. 0.010 min
Lab File: VV033831.D
Acq: 23 Jan 2024 15:35

Tgt Ion: 96 Resp: 22037387
Ion Ratio Lower Upper
96 100
61 105.0 100.6 186.8
98 71.2 44.6 82.8





#34

Trichloroethene

Concen: 1255.358 ug/L

RT: 5.831 min Scan# 1490

Delta R.T. -0.000 min

Lab File: VV033831.D

Acq: 23 Jan 2024 15:35

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion: 95 Resp: 2008387

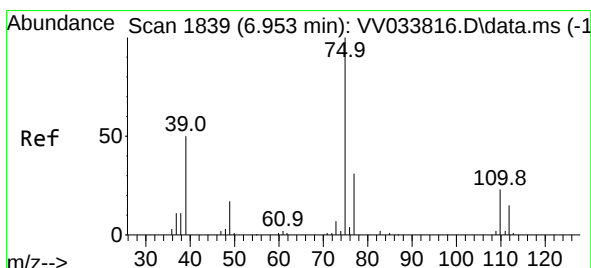
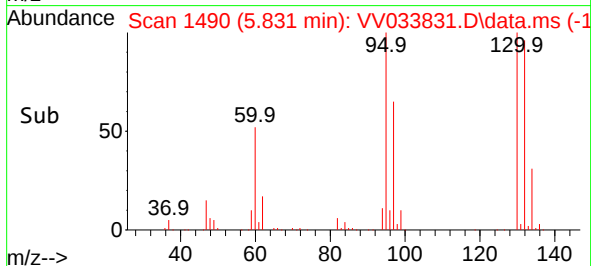
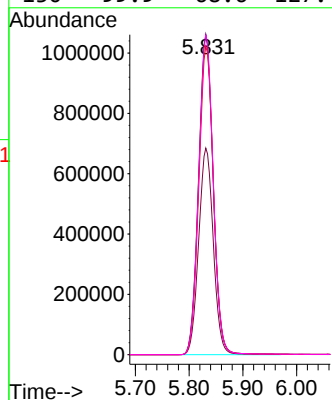
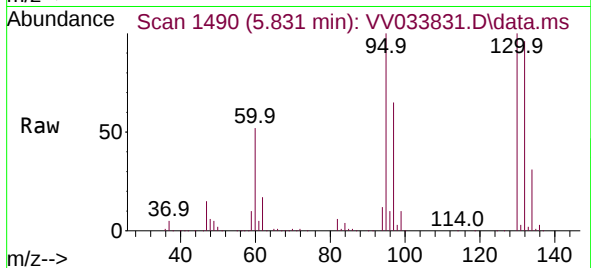
Ion Ratio Lower Upper

95 100

97 64.6 44.4 82.4

132 96.4 65.5 121.7

130 99.9 68.6 127.4



#39

cis-1,3-Dichloropropene

Concen: 0.969 ug/L

RT: 6.911 min Scan# 1826

Delta R.T. -0.042 min

Lab File: VV033831.D

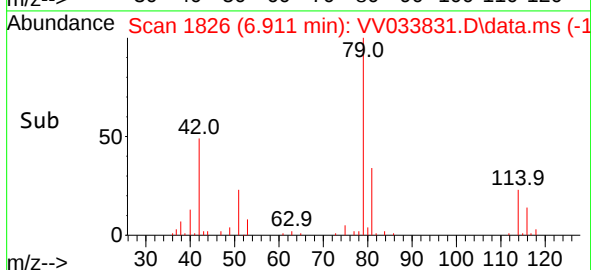
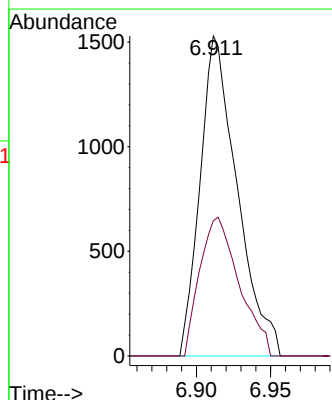
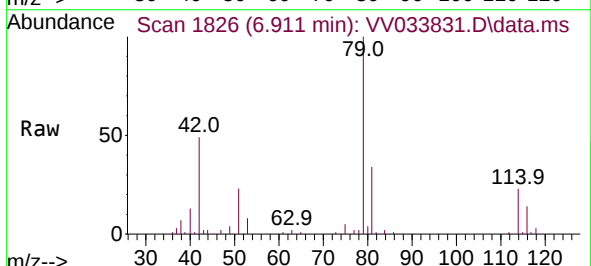
Acq: 23 Jan 2024 15:35

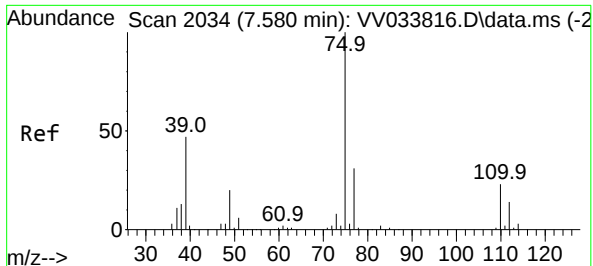
Tgt Ion: 75 Resp: 2655

Ion Ratio Lower Upper

75 100

77 42.2 22.0 41.0#

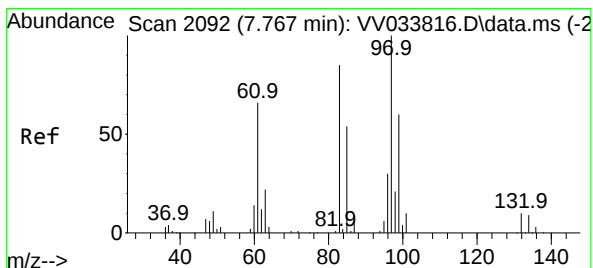
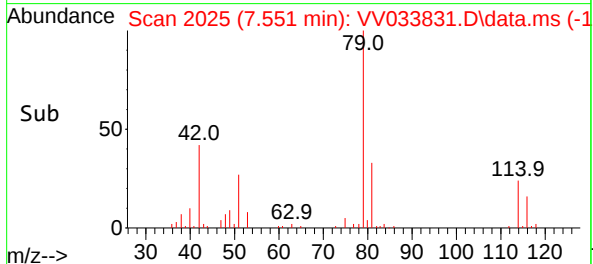
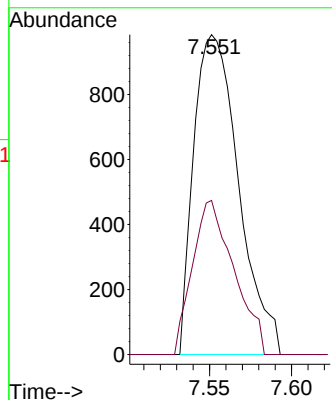
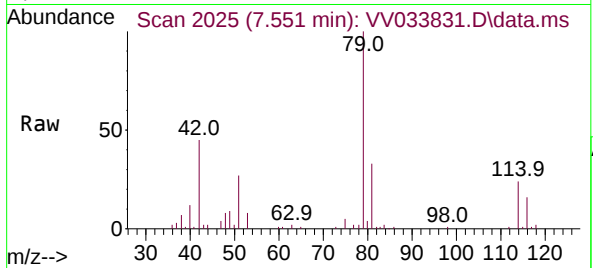




#44
trans-1,3-Dichloropropene
Concen: 0.742 ug/L
RT: 7.551 min Scan# 2034
Delta R.T. -0.029 min
Lab File: VV033831.D
Acq: 23 Jan 2024 15:35

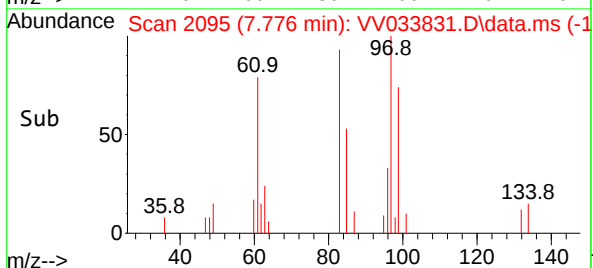
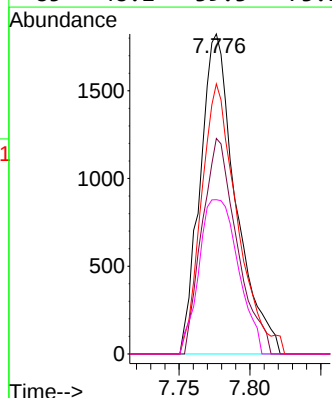
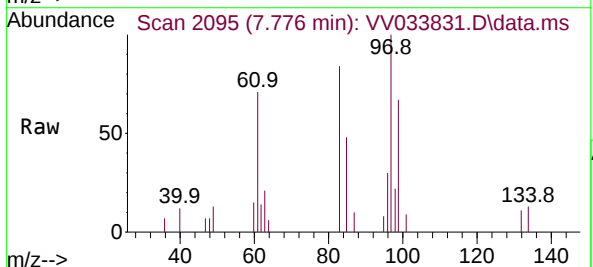
Instrument :
MSVOA_V
ClientSampleId :

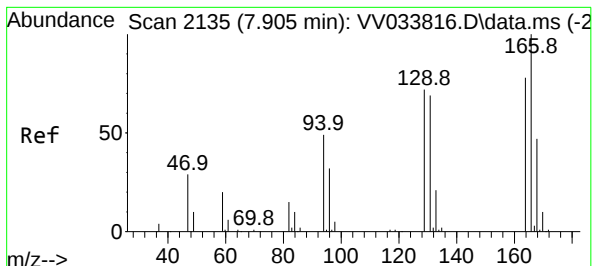
Tgt Ion: 75 Resp: 1874
Ion Ratio Lower Upper
75 100
77 48.2 21.6 40.0#



#45
1,1,2-Trichloroethane
Concen: 2.141 ug/L
RT: 7.776 min Scan# 2095
Delta R.T. 0.010 min
Lab File: VV033831.D
Acq: 23 Jan 2024 15:35

Tgt Ion: 97 Resp: 3188
Ion Ratio Lower Upper
97 100
99 67.3 42.8 79.6
83 84.4 61.2 113.8
85 48.2 39.3 73.1





#46

Tetrachloroethene

Concen: 1247.299 ug/L

RT: 7.905 min Scan# 2135

Delta R.T. -0.000 min

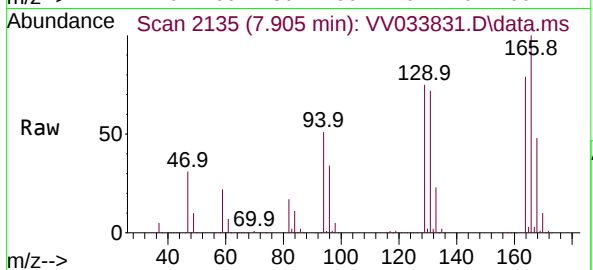
Lab File: VV033831.D

Acq: 23 Jan 2024 15:35

Instrument :

MSVOA_V

ClientSampleId :



Tgt Ion:164 Resp: 1463647

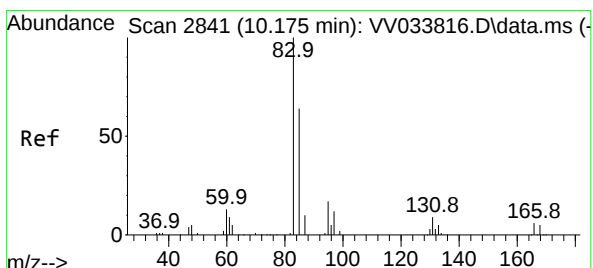
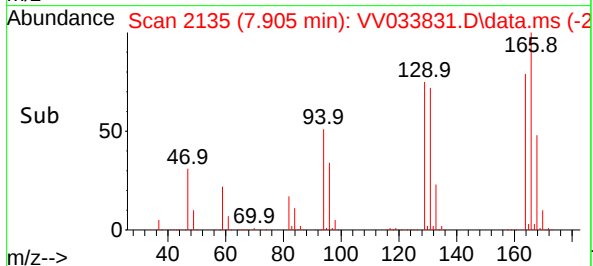
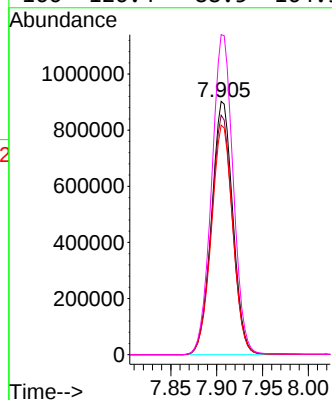
Ion Ratio Lower Upper

164 100

129 94.6 66.1 122.7

131 90.7 65.9 122.5

166 126.4 88.5 164.3



#57

1,1,2,2-Tetrachloroethane

Concen: 5.434 ug/L

RT: 10.178 min Scan# 2842

Delta R.T. 0.003 min

Lab File: VV033831.D

Acq: 23 Jan 2024 15:35

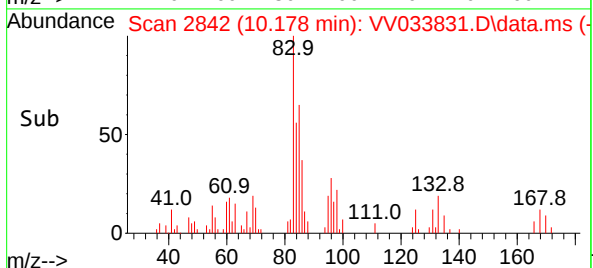
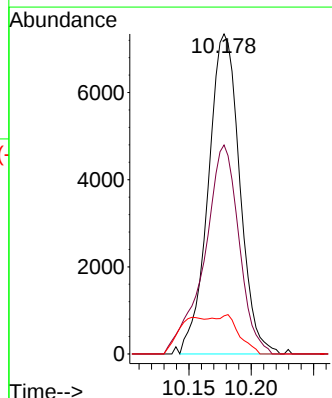
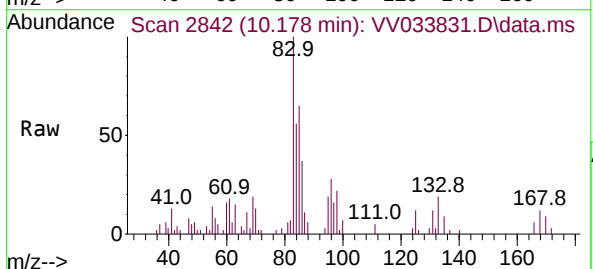
Tgt Ion: 83 Resp: 12877

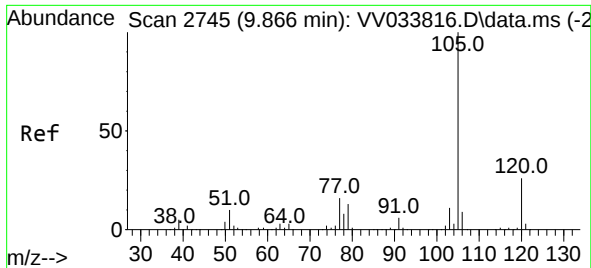
Ion Ratio Lower Upper

83 100

85 65.3 44.9 83.5

131 11.9 7.5 11.3#

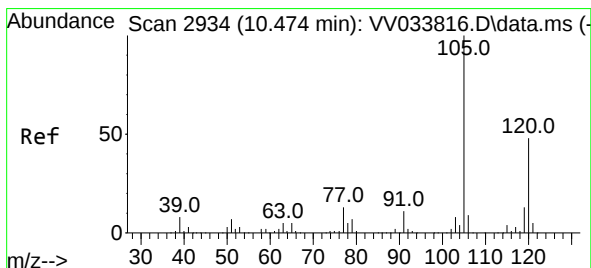
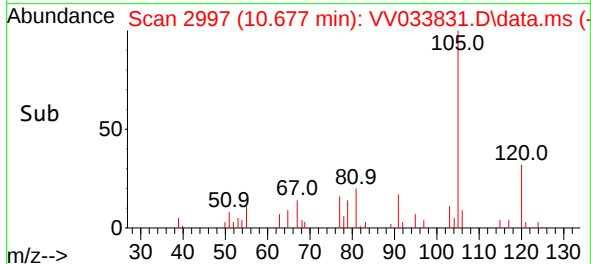
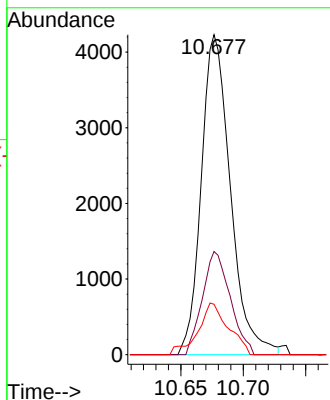
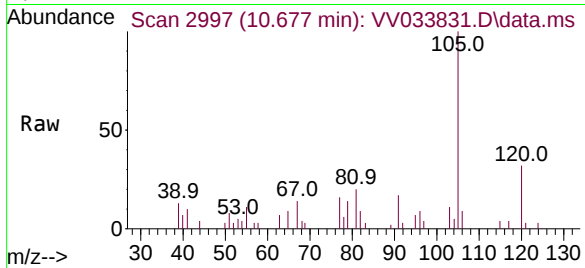




#60
Isopropylbenzene
Concen: 0.960 ug/L
RT: 10.677 min Scan# 2997
Delta R.T. 0.810 min
Lab File: VV033831.D
Acq: 23 Jan 2024 15:35

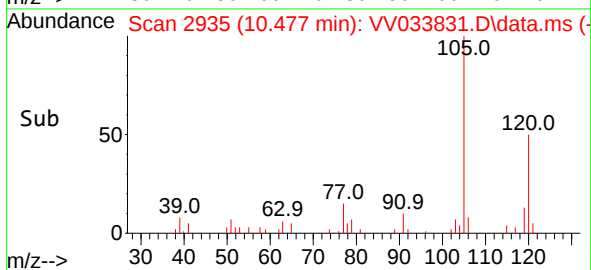
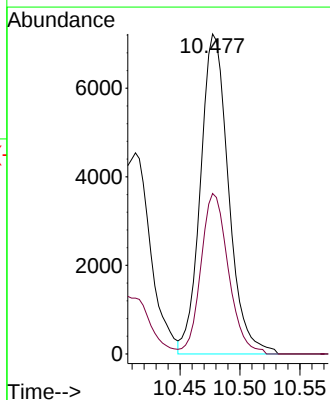
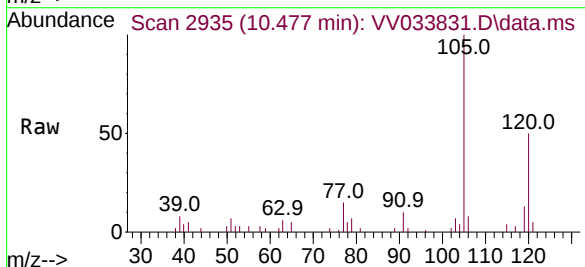
Instrument :
MSVOA_V
ClientSampleId :

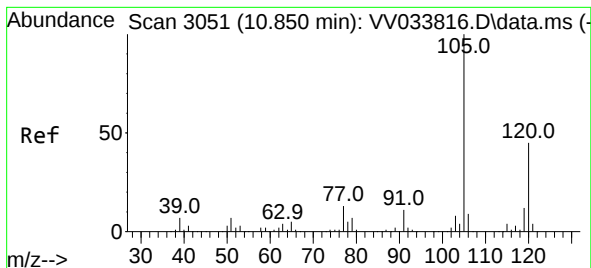
Tgt Ion:105 Resp: 6895
Ion Ratio Lower Upper
105 100
120 30.8 20.6 31.0
77 15.5 13.4 20.0



#62
1,3,5-Trimethylbenzene
Concen: 1.908 ug/L
RT: 10.477 min Scan# 2935
Delta R.T. 0.003 min
Lab File: VV033831.D
Acq: 23 Jan 2024 15:35

Tgt Ion:105 Resp: 11766
Ion Ratio Lower Upper
105 100
120 49.0 39.1 58.7





#63

1,2,4-Trimethylbenzene

Concen: 4.752 ug/L

RT: 10.853 min Scan# 3051

Delta R.T. 0.003 min

Lab File: VV033831.D

Acq: 23 Jan 2024 15:35

Instrument :

MSVOA_V

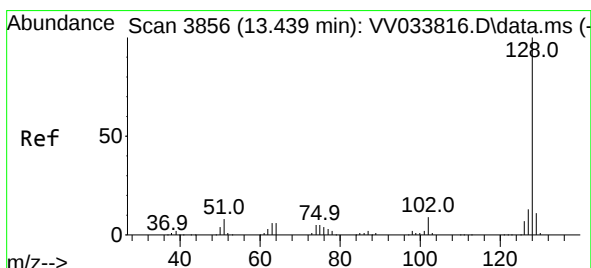
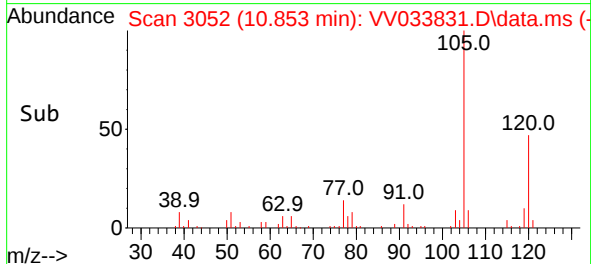
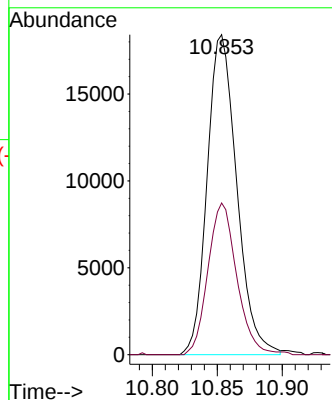
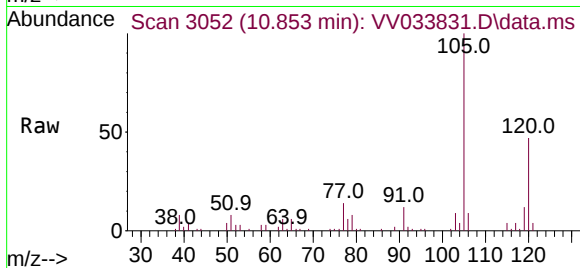
ClientSampleId :

Tgt Ion:105 Resp: 29192

Ion Ratio Lower Upper

105 100

120 46.1 35.4 53.0



#71

Naphthalene

Concen: 1.067 ug/L

RT: 13.445 min Scan# 3858

Delta R.T. 0.006 min

Lab File: VV033831.D

Acq: 23 Jan 2024 15:35

Tgt Ion:128 Resp: 6070

Ion Ratio Lower Upper

128 100

127 14.0 10.3 15.5

129 10.4 8.6 13.0

