

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092624\
 Data File : VV037570.D
 Acq On : 27 Sep 2024 00:05
 Operator : SY/MD
 Sample : P4184-16
 Misc : 5mL/MSVOA_V/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Sep 27 03:39:26 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM092624WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Sep 27 02:22:28 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.529	114	662301	50.000	ug/L	0.00
28) Chlorobenzene-d5	8.780	117	647305	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.178	152	329824	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.278	65	247362	42.546	ug/L	0.00
Spiked Amount 50.000	Range 60 - 135		Recovery =	85.100%		
7) Chloroethane-d5	1.532	69	197265	43.712	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	87.420%		
11) 1,1-Dichloroethene-d2	2.060	65	107246	44.152	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	88.300%		
21) 2-Butanone-d5	3.809	46	216489	104.543	ug/L	0.02
Spiked Amount 100.000	Range 40 - 130		Recovery =	104.540%		
24) Chloroform-d	4.243	84	437361	42.283	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	84.560%		
26) 1,2-Dichloroethane-d4	4.937	65	265343	43.826	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	87.660%		
32) Benzene-d6	4.953	84	885630	43.723	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	87.440%		
36) 1,2-Dichloropropane-d6	5.982	67	286509	44.420	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery =	88.840%		
41) Toluene-d8	7.236	98	794738	43.270	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	86.540%		
43) trans-1,3-Dichloroprop...	7.548	79	130125	43.429	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	86.860%		
47) 2-Hexanone-d5	8.021	63	138004	101.327	ug/L	0.00
Spiked Amount 100.000	Range 45 - 130		Recovery =	101.330%		
56) 1,1,2,2-Tetrachloroeth...	10.146	84	337148	44.987	ug/L	0.00
Spiked Amount 50.000	Range 65 - 120		Recovery =	89.980%		
66) 1,2-Dichlorobenzene-d4	11.554	152	315365	45.376	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	90.760%		
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.285	62	52174	8.891	ug/L	96
8) Chloroethane	1.548	64	11345	3.137	ug/L	94
9) Trichlorofluoromethane	1.712	101	78723	9.966	ug/L	98
10) 1,1,2-Trichloro-1,2,2-...	2.066	101	4577	0.970	ug/L #	34
12) 1,1-Dichloroethene	2.069	96	546253	123.887	ug/L #	66
15) Methyl Acetate	2.372	43	5213	1.471	ug/L	100
17) trans-1,2-Dichloroethene	2.690	96	171289	36.721	ug/L	98
19) 1,1-Dichloroethane	3.101	63	18262378	2043.412	ug/L	94
27) 1,2-Dichloroethane	5.047	62	32185	4.927	ug/L	94
29) Cyclohexane	4.574	56	12895	1.755	ug/L #	27
33) Benzene	5.008	78	151583	7.765	ug/L	100
34) Trichloroethene	5.831	95	86088	16.559	ug/L	98
35) Methylcyclohexane	6.043	83	53043	6.632	ug/L	98
42) Toluene	7.307	91	3396057	167.804	ug/L	100
45) 1,1,2-Trichloroethane	7.770	97	20791	4.295	ug/L	98
46) Tetrachloroethene	7.899	164	151739	38.174	ug/L	98
48) 2-Hexanone	8.021	43	19298	6.046	ug/L #	61
52) Ethylbenzene	8.940	91	1455069	63.871	ug/L	99
53) m,p-Xylene	9.066	106	2075827	244.835	ug/L	99

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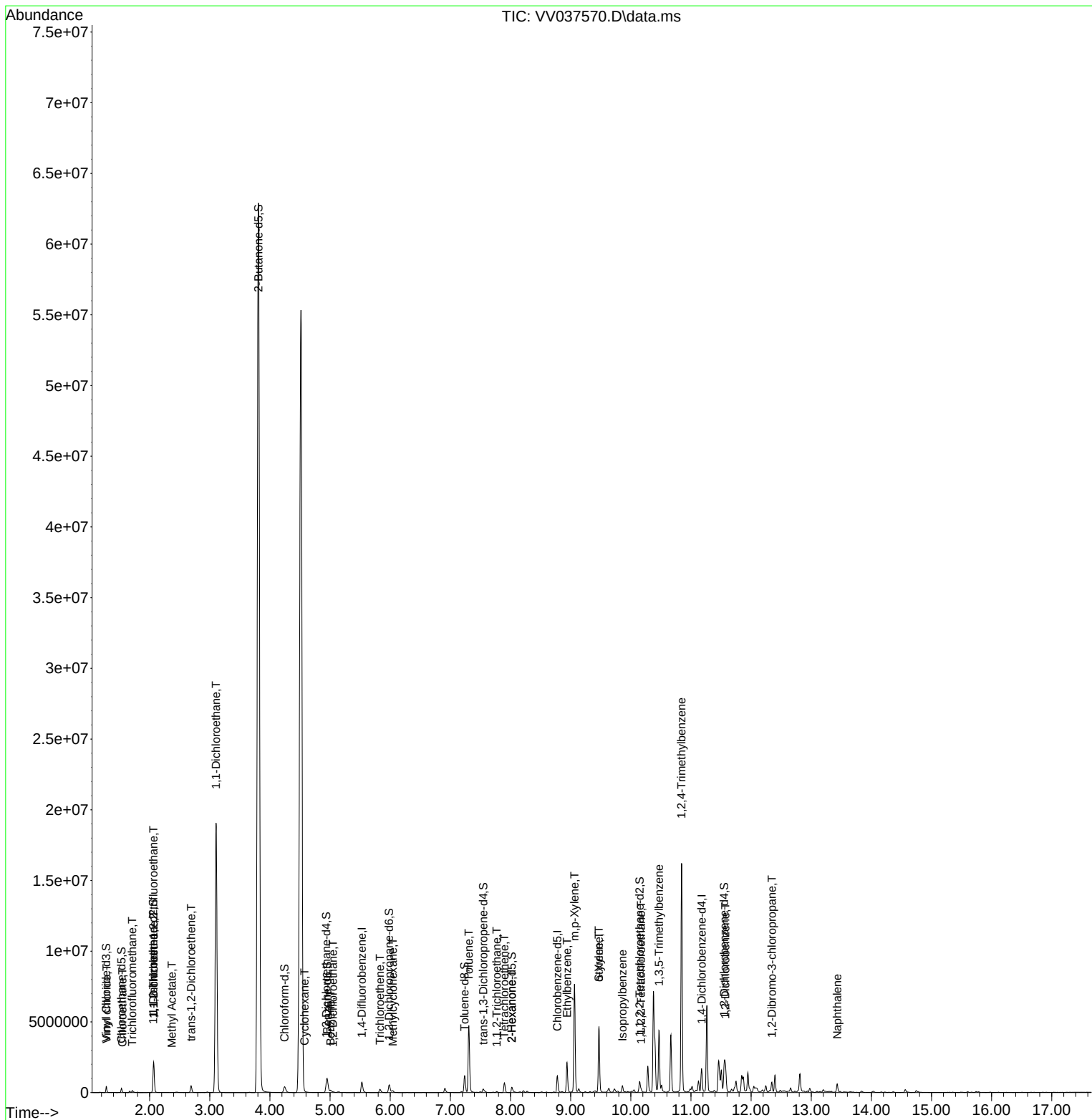
Instrument :
MSVOA_V
ClientSampleId :

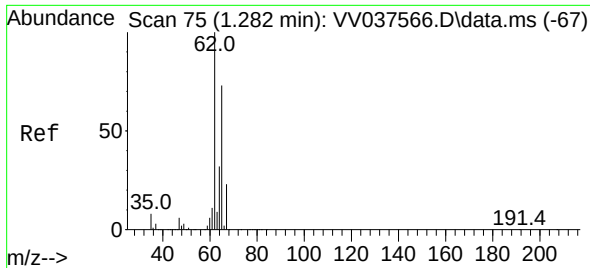
Quant Time: Sep 27 03:39:26 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM092624WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Sep 27 02:22:28 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) o-Xylene	9.471	106	1197214	144.636	ug/L	97
55) Styrene	9.471	104	61958	4.300	ug/L #	1
57) 1,1,2,2-Tetrachloroethane	10.172	83	18213	2.699	ug/L #	58
60) Isopropylbenzene	9.863	105	291569	13.597	ug/L	99
62) 1,3,5-Trimethylbenzene	10.468	105	2303737	135.889	ug/L	99
63) 1,2,4-Trimethylbenzene	10.844	105	8577499	508.512	ug/L	98
67) 1,2-Dichlorobenzene	11.574	146	21841	2.141	ug/L	93
68) 1,2-Dibromo-3-chloropr...	12.345	75	3208	2.816	ug/L #	10
71) Naphthalene	13.432	128	460963	26.792	ug/L	99

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

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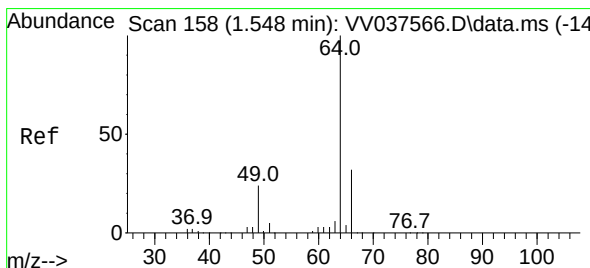
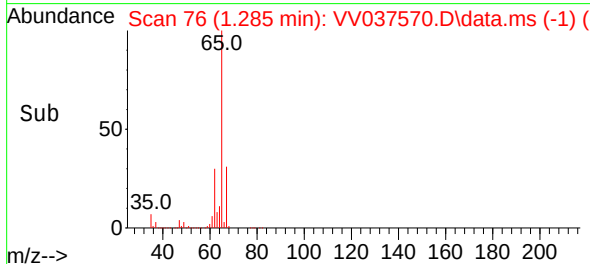
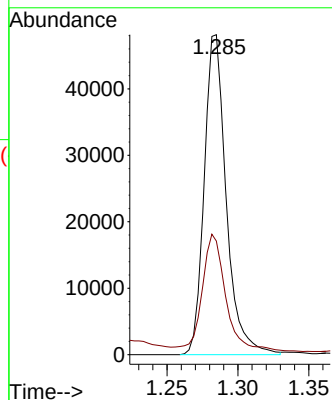
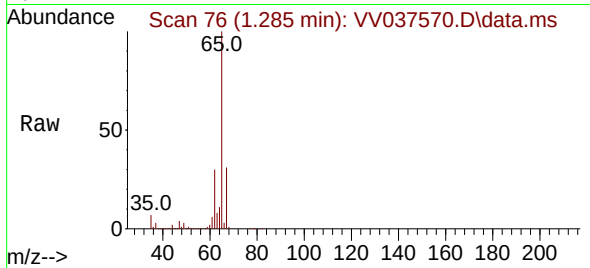




#5
 Vinyl chloride
 Concen: 8.891 ug/L
 RT: 1.285 min Scan# 75
 Delta R.T. 0.003 min
 Lab File: VV037570.D
 Acq: 27 Sep 2024 00:05

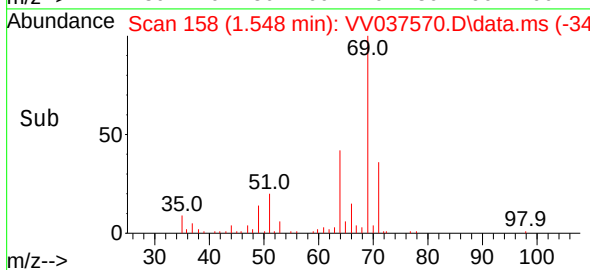
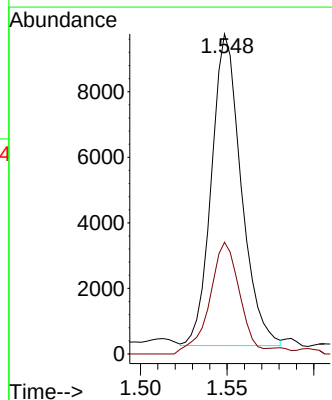
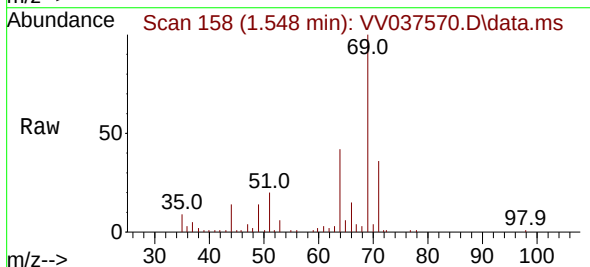
Instrument :
 MSVOA_V
 ClientSampleId :

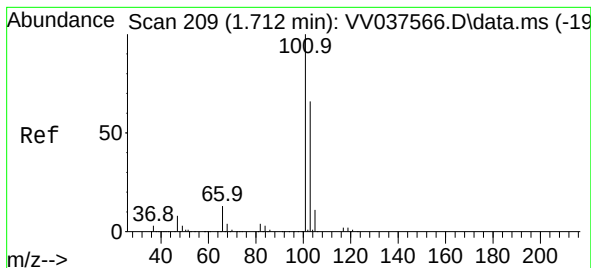
Tgt Ion: 62 Resp: 52174
 Ion Ratio Lower Upper
 62 100
 64 35.5 23.2 43.0



#8
 Chloroethane
 Concen: 3.137 ug/L
 RT: 1.548 min Scan# 158
 Delta R.T. 0.000 min
 Lab File: VV037570.D
 Acq: 27 Sep 2024 00:05

Tgt Ion: 64 Resp: 11345
 Ion Ratio Lower Upper
 64 100
 66 34.9 22.2 41.2





#9

Trichlorofluoromethane

Concen: 9.966 ug/L

RT: 1.712 min Scan# 209

Delta R.T. 0.000 min

Lab File: VV037570.D

Acq: 27 Sep 2024 00:05

Instrument :

MSVOA_V

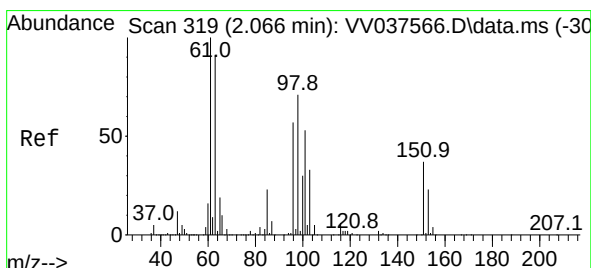
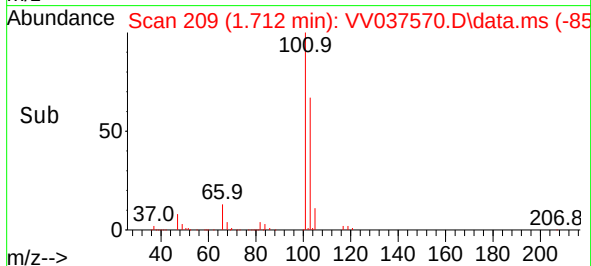
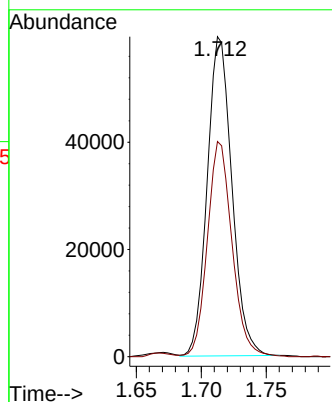
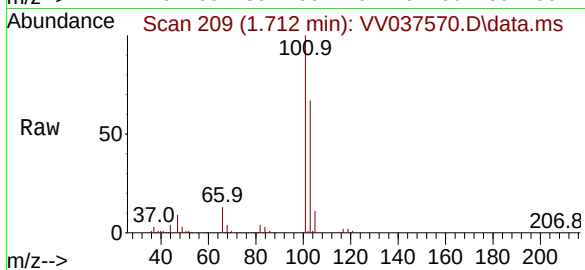
ClientSampleId :

Tgt Ion:101 Resp: 78723

Ion Ratio Lower Upper

101 100

103 67.3 52.2 78.4



#10

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

Concen: 0.970 ug/L

RT: 2.066 min Scan# 319

Delta R.T. 0.000 min

Lab File: VV037570.D

Acq: 27 Sep 2024 00:05

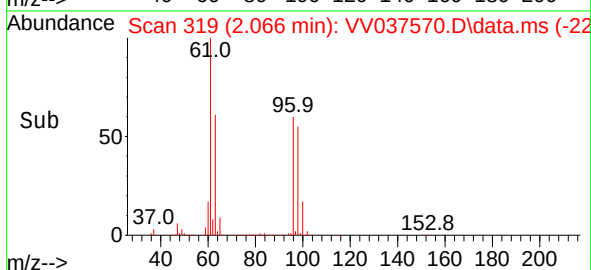
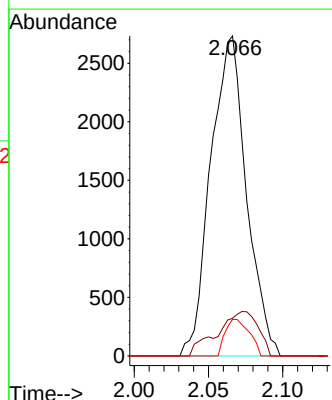
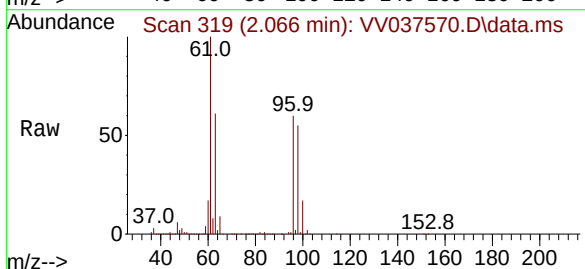
Tgt Ion:101 Resp: 4577

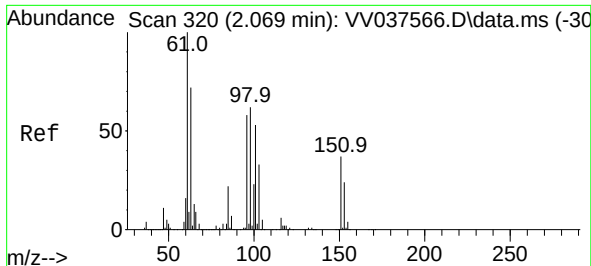
Ion Ratio Lower Upper

101 100

85 13.0 34.6 52.0#

151 7.7 57.5 86.3#





#12

1,1-Dichloroethene

Concen: 123.887 ug/L

RT: 2.069 min Scan# 31

Delta R.T. 0.000 min

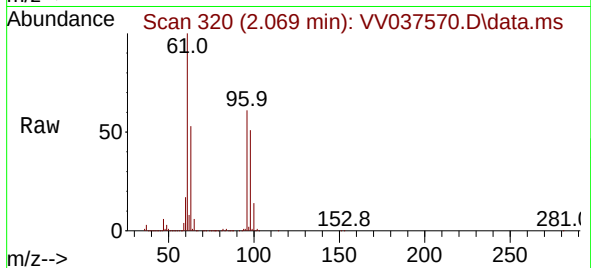
Lab File: VV037570.D

Acq: 27 Sep 2024 00:05

Instrument :

MSVOA_V

ClientSampleId :



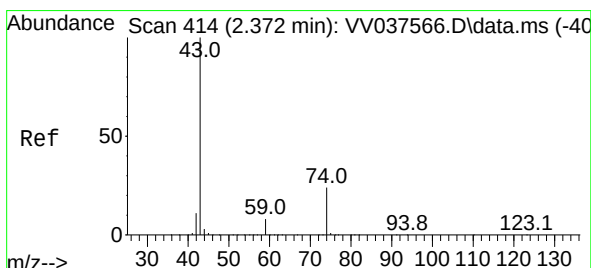
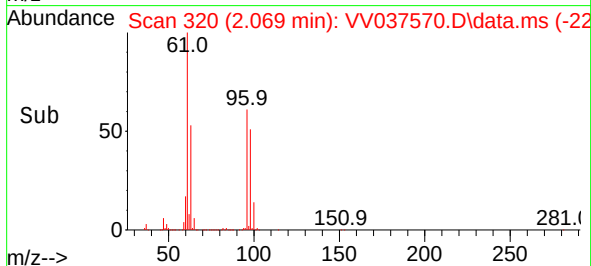
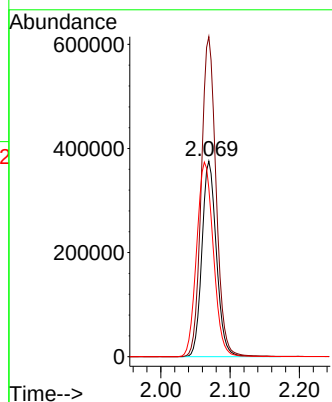
Tgt Ion: 96 Resp: 546253

Ion Ratio Lower Upper

96 100

61 163.6 122.6 227.6

63 86.2 118.0 219.2#



#15

Methyl Acetate

Concen: 1.471 ug/L

RT: 2.372 min Scan# 414

Delta R.T. 0.000 min

Lab File: VV037570.D

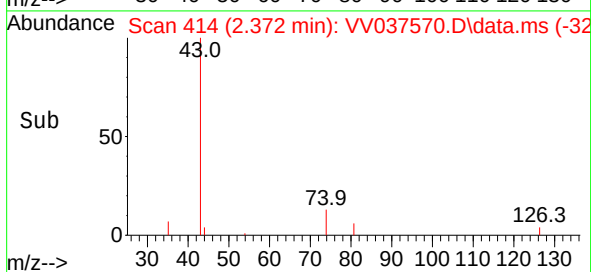
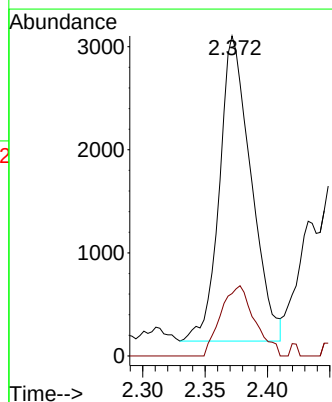
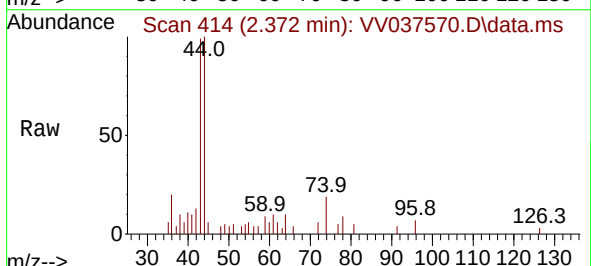
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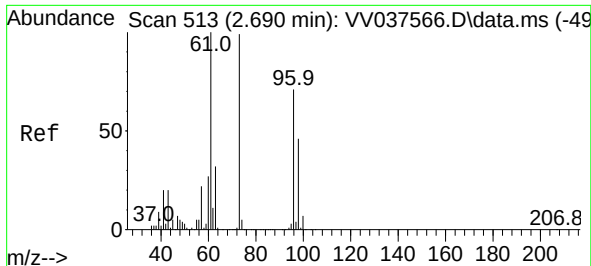
Tgt Ion: 43 Resp: 5213

Ion Ratio Lower Upper

43 100

74 24.2 19.4 29.0





#17

trans-1,2-Dichloroethene

Concen: 36.721 ug/L

RT: 2.690 min Scan# 513

Delta R.T. 0.000 min

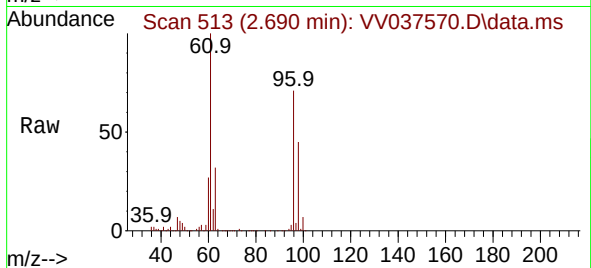
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Instrument :

MSVOA_V

ClientSampleId :



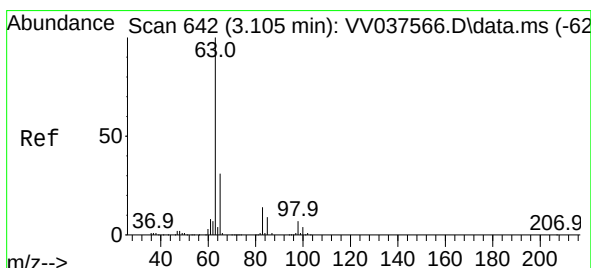
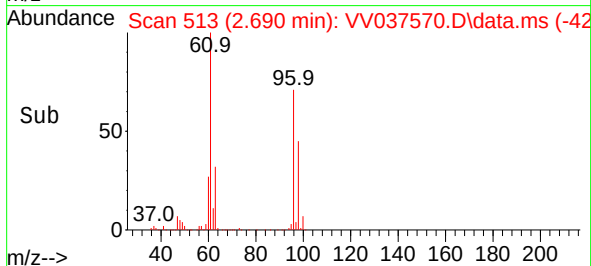
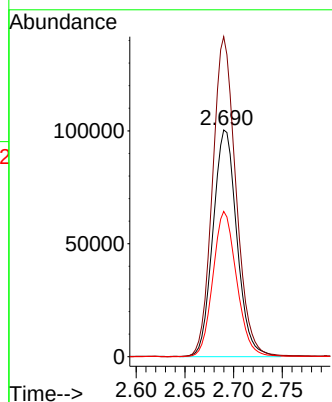
Tgt Ion: 96 Resp: 171289

Ion Ratio Lower Upper

96 100

61 141.2 97.3 180.7

98 64.1 43.9 81.5



#19

1,1-Dichloroethane

Concen: 2043.412 ug/L

RT: 3.101 min Scan# 641

Delta R.T. -0.003 min

Lab File: VV037570.D

Acq: 27 Sep 2024 00:05

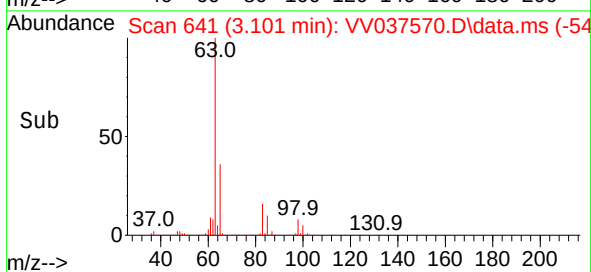
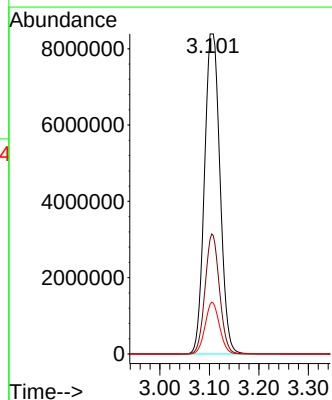
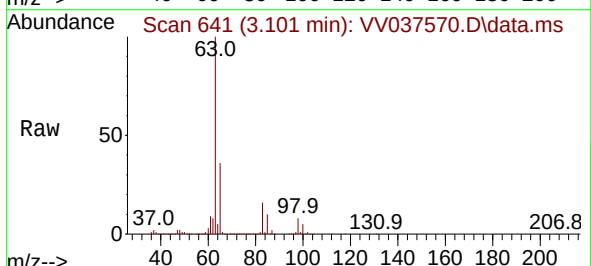
Tgt Ion: 63 Resp:18262378

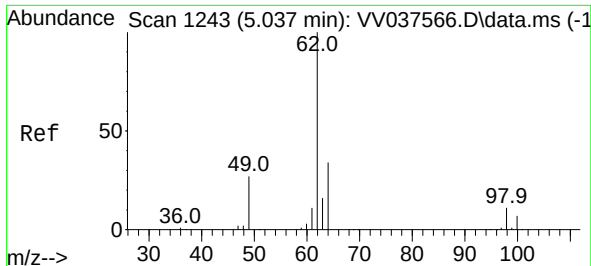
Ion Ratio Lower Upper

63 100

65 35.9 22.4 41.6

83 15.5 9.5 17.7

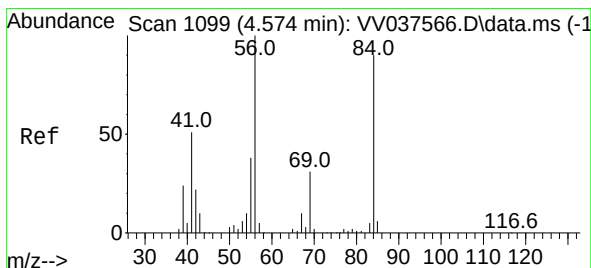
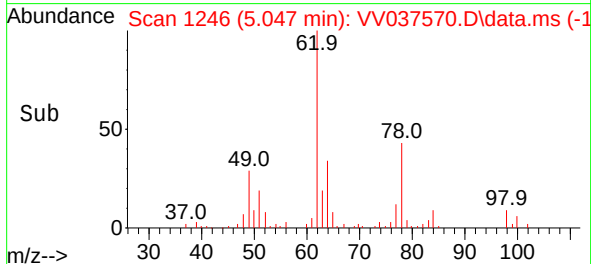
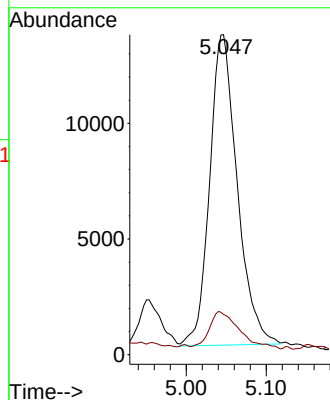
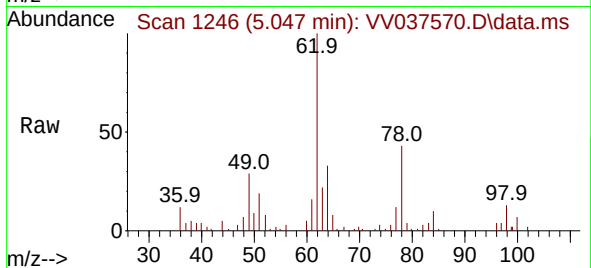




#27
1,2-Dichloroethane
Concen: 4.927 ug/L
RT: 5.047 min Scan# 11
Delta R.T. 0.010 min
Lab File: VV037570.D
Acq: 27 Sep 2024 00:05

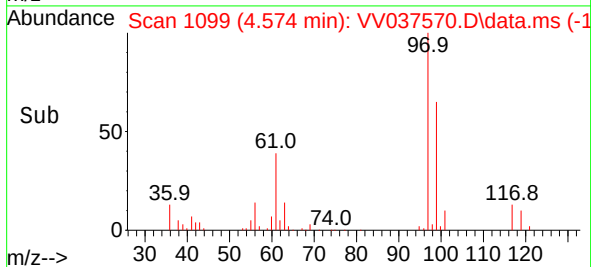
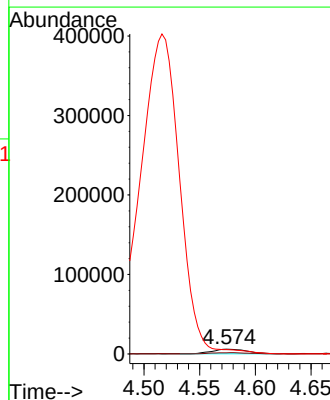
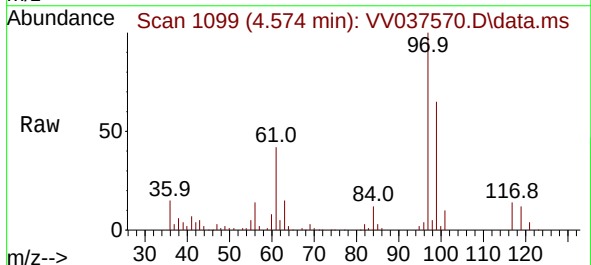
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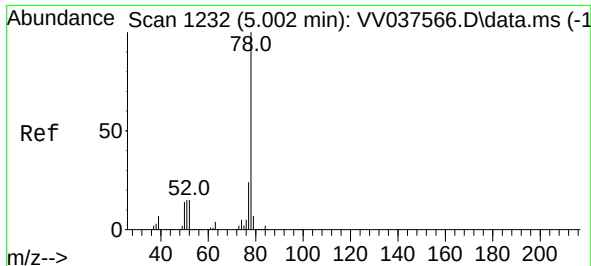
Tgt Ion: 62 Resp: 32185
Ion Ratio Lower Upper
62 100
98 12.6 8.4 12.6



#29
Cyclohexane
Concen: 1.755 ug/L
RT: 4.574 min Scan# 1099
Delta R.T. 0.000 min
Lab File: VV037570.D
Acq: 27 Sep 2024 00:05

Tgt Ion: 56 Resp: 12895
Ion Ratio Lower Upper
56 100
69 27.9 24.7 37.1
84 0.0 73.4 110.0#

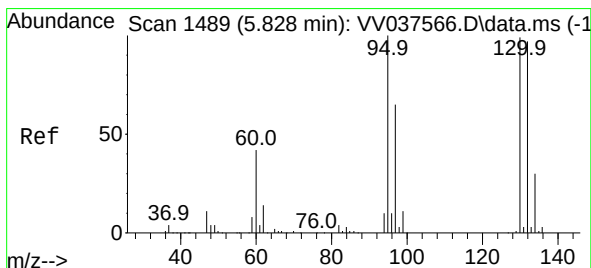
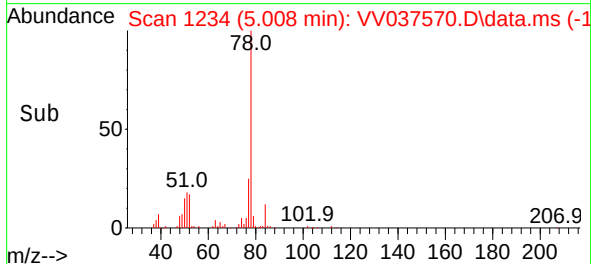
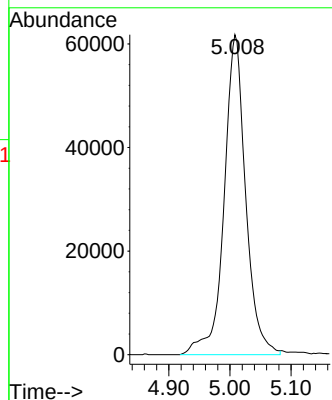
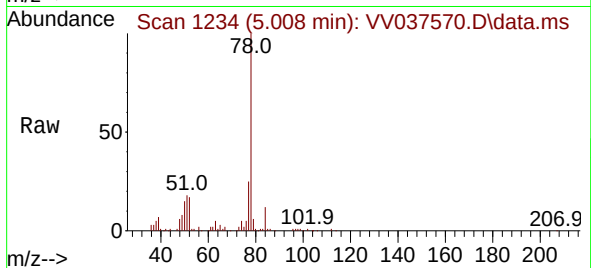




#33
Benzene
Concen: 7.765 ug/L
RT: 5.008 min Scan# 1232
Delta R.T. 0.006 min
Lab File: VV037570.D
Acq: 27 Sep 2024 00:05

Instrument :
MSVOA_V
ClientSampleId :

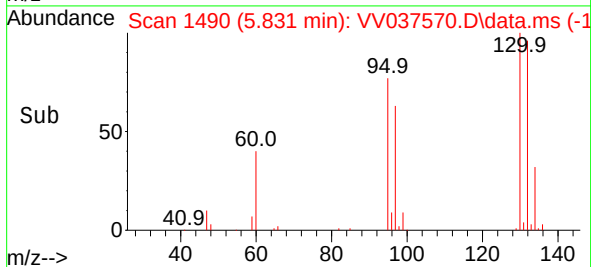
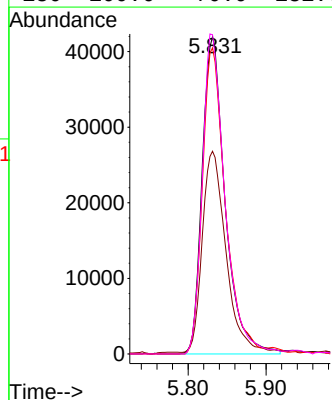
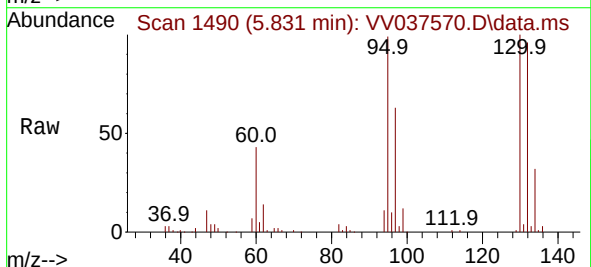
Tgt Ion: 78 Resp: 151583

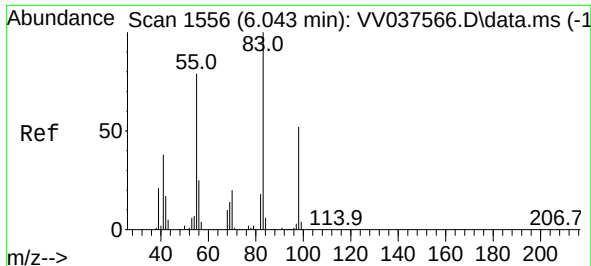


#34
Trichloroethene
Concen: 16.559 ug/L
RT: 5.831 min Scan# 1490
Delta R.T. 0.003 min
Lab File: VV037570.D
Acq: 27 Sep 2024 00:05

Tgt Ion: 95 Resp: 86088

Ion	Ratio	Lower	Upper
95	100		
97	63.9	46.3	85.9
132	96.4	68.6	127.4
130	100.6	70.9	131.7





#35

Methylcyclohexane

Concen: 6.632 ug/L

RT: 6.043 min Scan# 1

Delta R.T. 0.000 min

Lab File: VV037570.D

Acq: 27 Sep 2024 00:05

Instrument :

MSVOA_V

ClientSampleId :

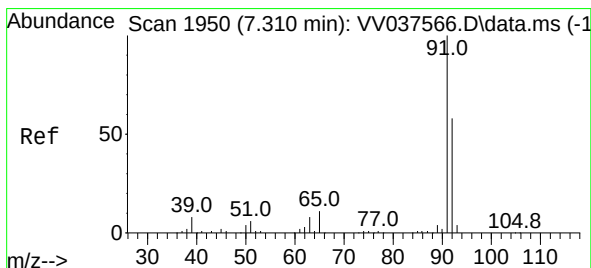
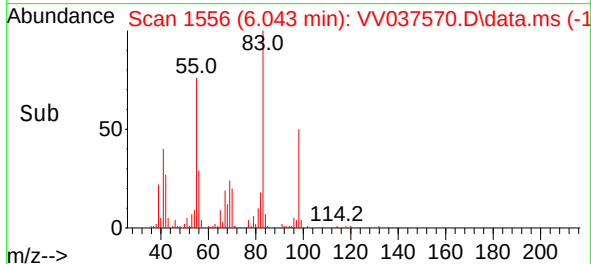
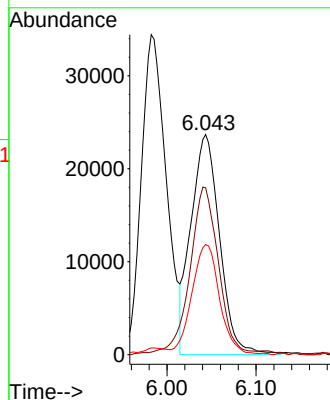
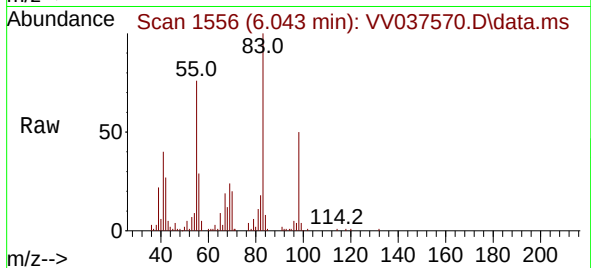
Tgt Ion: 83 Resp: 53043

Ion Ratio Lower Upper

83 100

55 73.9 57.9 86.9

98 47.2 39.3 58.9



#42

Toluene

Concen: 167.804 ug/L

RT: 7.307 min Scan# 1949

Delta R.T. -0.003 min

Lab File: VV037570.D

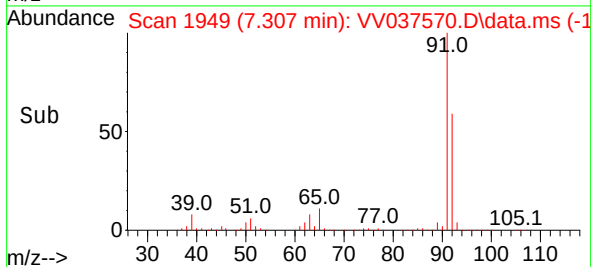
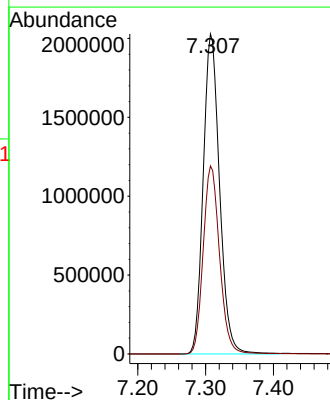
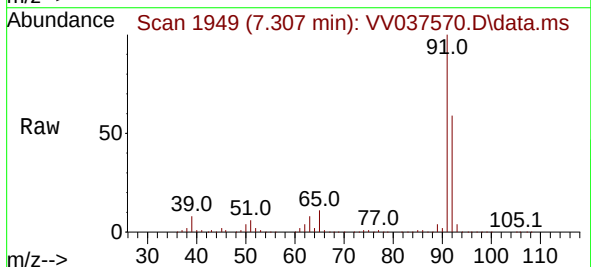
Acq: 27 Sep 2024 00:05

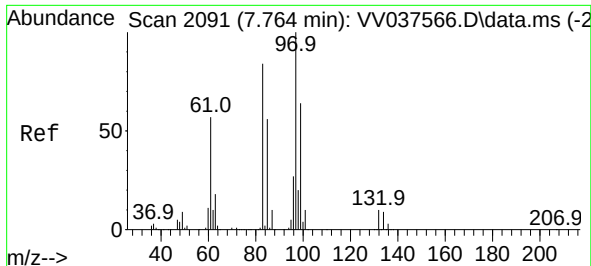
Tgt Ion: 91 Resp: 3396057

Ion Ratio Lower Upper

91 100

92 58.7 41.1 76.3





#45

1,1,2-Trichloroethane

Concen: 4.295 ug/L

RT: 7.770 min Scan# 2091

Delta R.T. 0.006 min

Lab File: VV037570.D

Acq: 27 Sep 2024 00:05

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion: 97 Resp: 20791

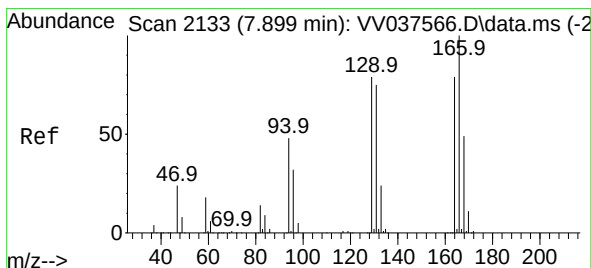
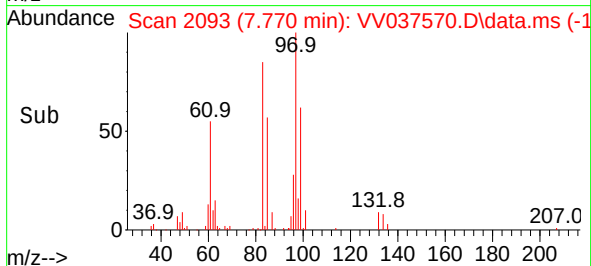
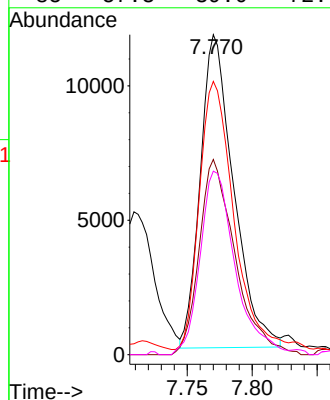
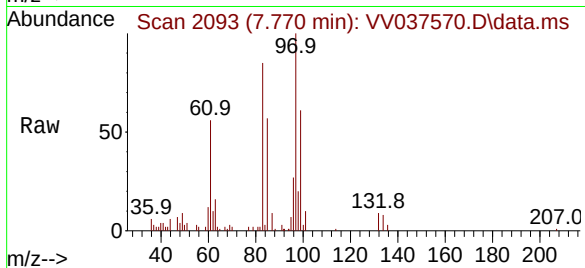
Ion Ratio Lower Upper

97 100

99 61.0 44.1 81.9

83 85.4 59.3 110.1

85 57.3 39.0 72.4



#46

Tetrachloroethene

Concen: 38.174 ug/L

RT: 7.899 min Scan# 2133

Delta R.T. 0.000 min

Lab File: VV037570.D

Acq: 27 Sep 2024 00:05

Tgt Ion:164 Resp: 151739

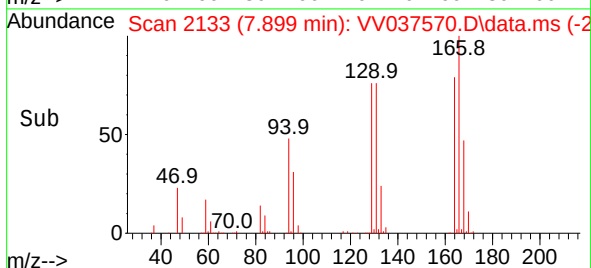
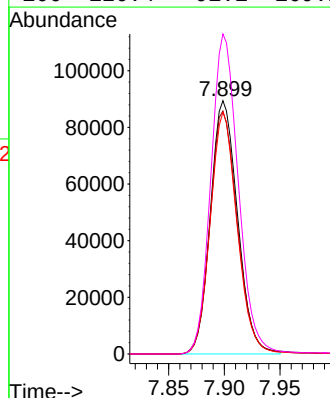
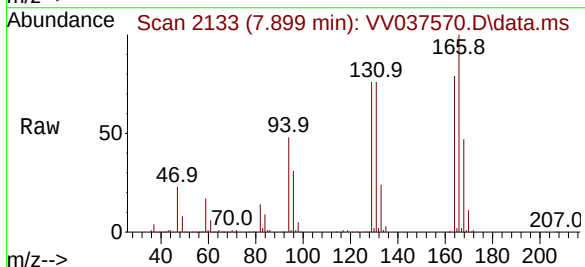
Ion Ratio Lower Upper

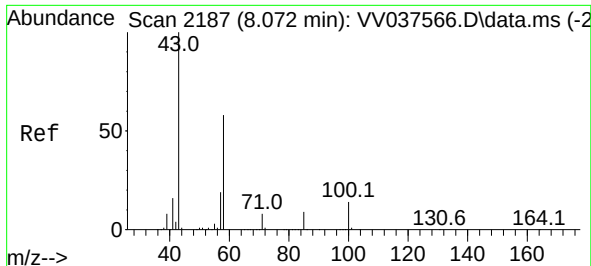
164 100

129 95.9 68.2 126.6

131 95.5 66.1 122.8

166 126.4 91.1 169.1





#48

2-Hexanone

Concen: 6.046 ug/L

RT: 8.021 min Scan# 21

Delta R.T. -0.051 min

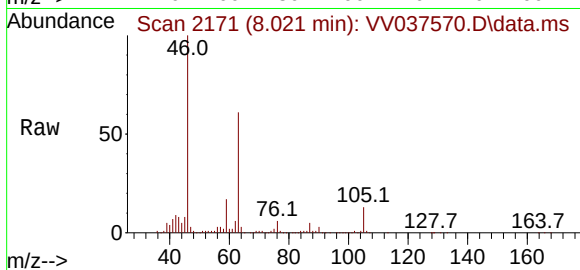
Lab File: VV037570.D

Acq: 27 Sep 2024 00:05

Instrument :

MSVOA_V

ClientSampleId :



Tgt Ion: 43 Resp: 19298

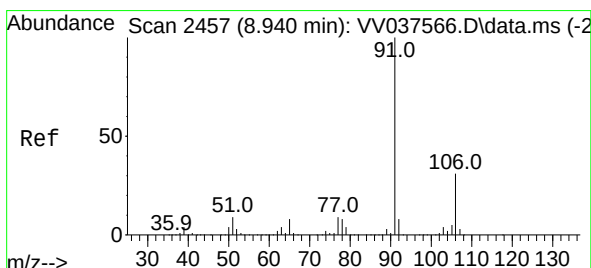
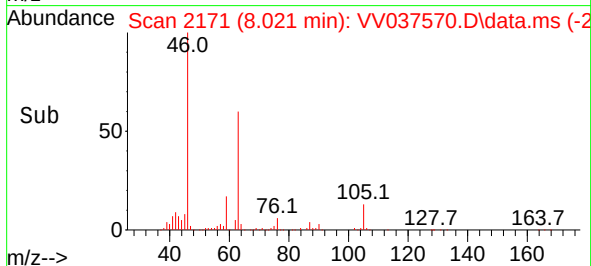
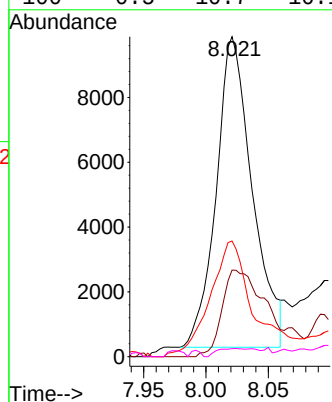
Ion Ratio Lower Upper

43 100

58 33.1 46.5 69.7#

57 45.6 15.1 22.7#

100 0.5 10.7 16.1#



#52

Ethylbenzene

Concen: 63.871 ug/L

RT: 8.940 min Scan# 2457

Delta R.T. 0.000 min

Lab File: VV037570.D

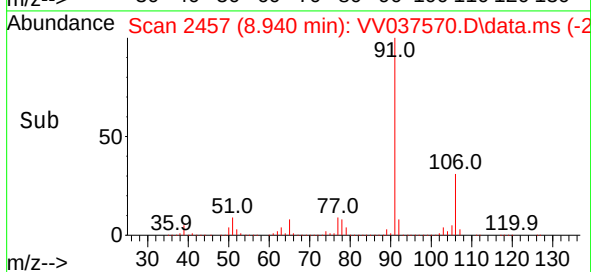
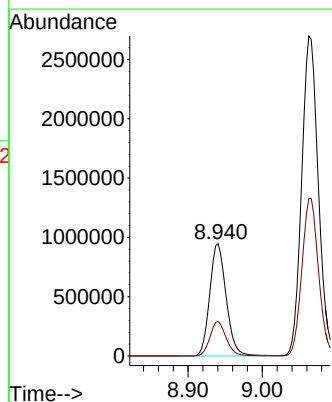
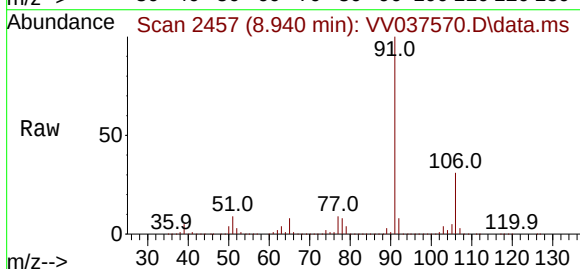
Acq: 27 Sep 2024 00:05

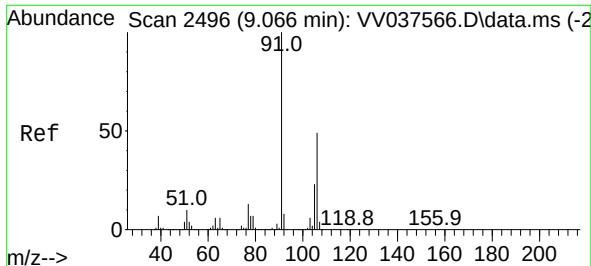
Tgt Ion: 91 Resp: 1455069

Ion Ratio Lower Upper

91 100

106 30.7 21.9 40.7

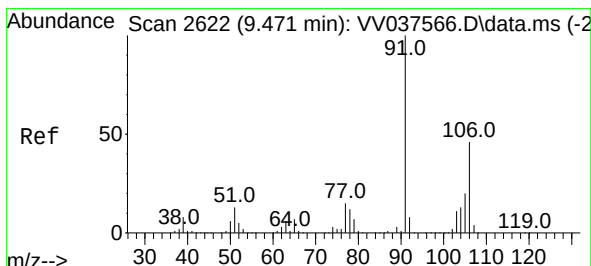
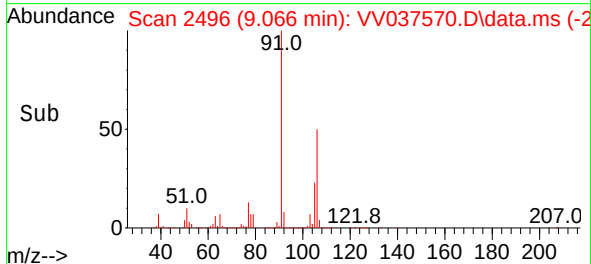
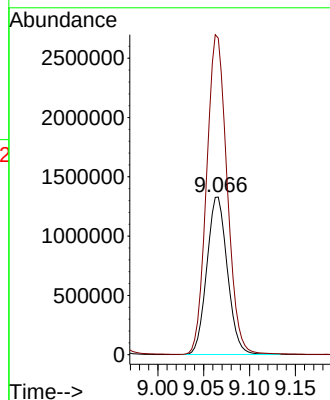
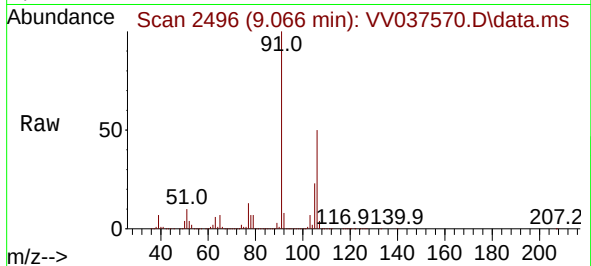




#53
m,p-Xylene
Concen: 244.835 ug/L
RT: 9.066 min Scan# 2496
Delta R.T. 0.000 min
Lab File: VV037570.D
Acq: 27 Sep 2024 00:05

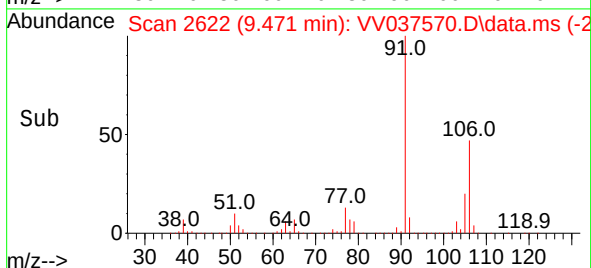
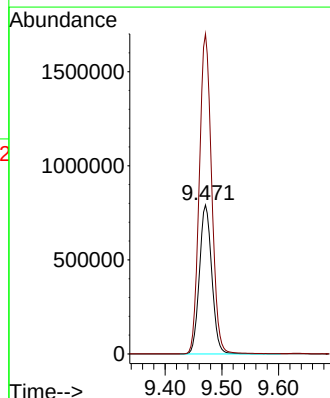
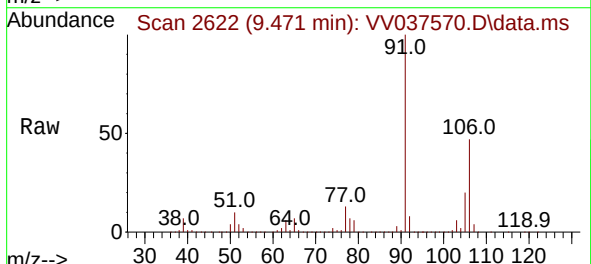
Instrument :
MSVOA_V
ClientSampleId :

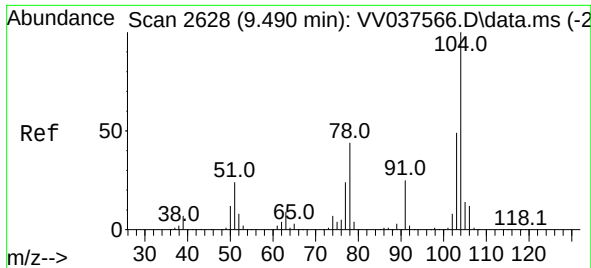
Tgt Ion:106 Resp: 2075827
Ion Ratio Lower Upper
106 100
91 200.8 142.0 263.6



#54
o-Xylene
Concen: 144.636 ug/L
RT: 9.471 min Scan# 2622
Delta R.T. 0.000 min
Lab File: VV037570.D
Acq: 27 Sep 2024 00:05

Tgt Ion:106 Resp: 1197214
Ion Ratio Lower Upper
106 100
91 214.9 153.9 285.9

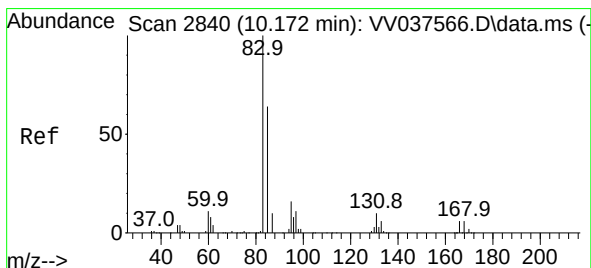
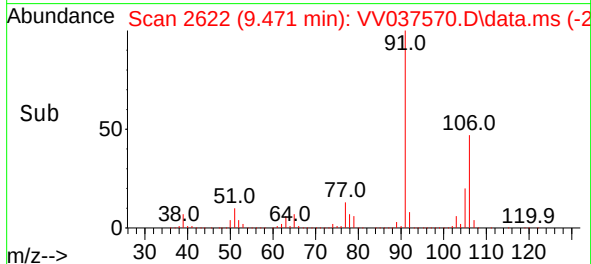
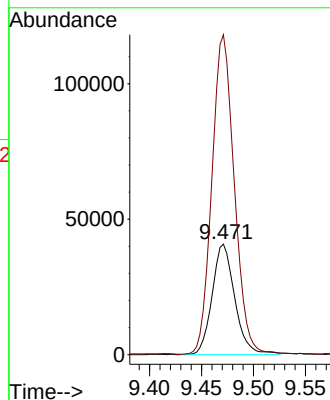
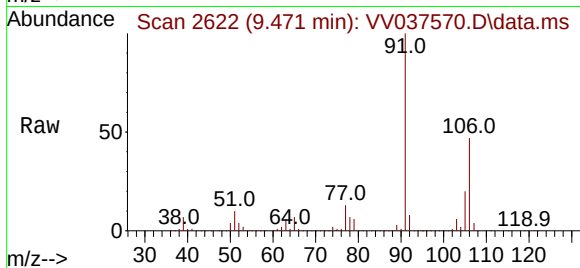




#55
Styrene
Concen: 4.300 ug/L
RT: 9.471 min Scan# 2622
Delta R.T. -0.019 min
Lab File: VV037570.D
Acq: 27 Sep 2024 00:05

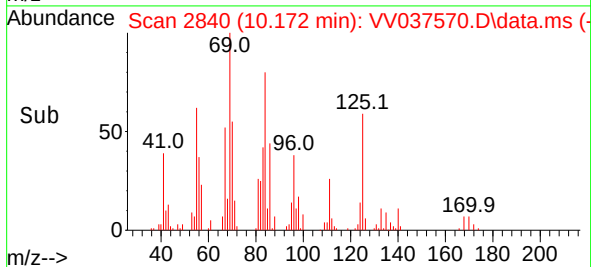
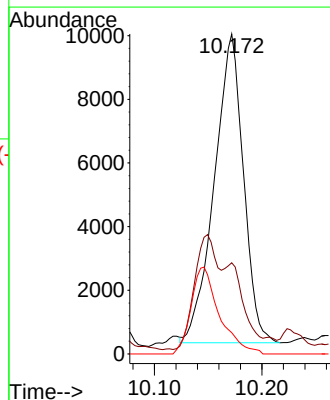
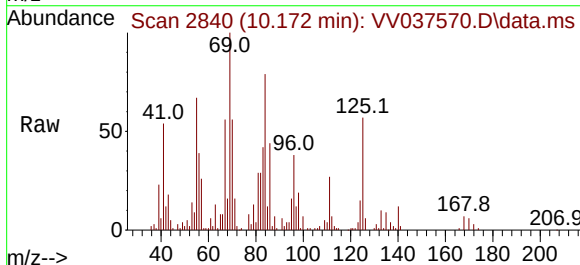
Instrument :
MSVOA_V
ClientSampleId :

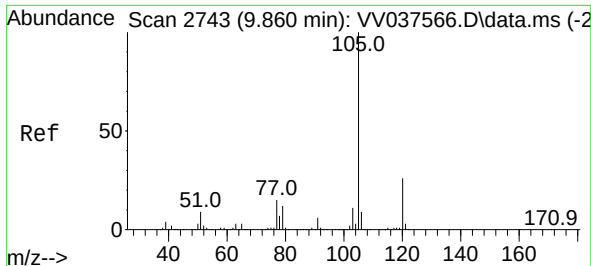
Tgt Ion:104 Resp: 61958
Ion Ratio Lower Upper
104 100
78 289.5 30.0 55.6#



#57
1,1,2,2-Tetrachloroethane
Concen: 2.699 ug/L
RT: 10.172 min Scan# 2840
Delta R.T. 0.000 min
Lab File: VV037570.D
Acq: 27 Sep 2024 00:05

Tgt Ion: 83 Resp: 18213
Ion Ratio Lower Upper
83 100
85 28.5 45.9 85.3#
131 6.6 7.9 11.9#





#60

Isopropylbenzene

Concen: 13.597 ug/L

RT: 9.863 min Scan# 21

Delta R.T. 0.003 min

Lab File: VV037570.D

Acq: 27 Sep 2024 00:05

Instrument :

MSVOA_V

ClientSampleId :

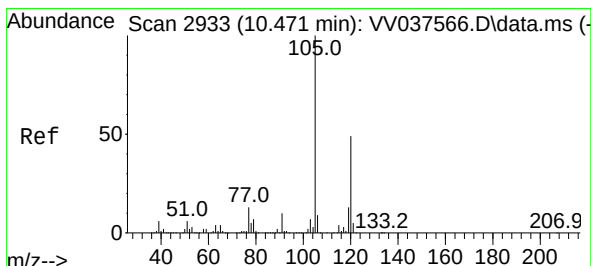
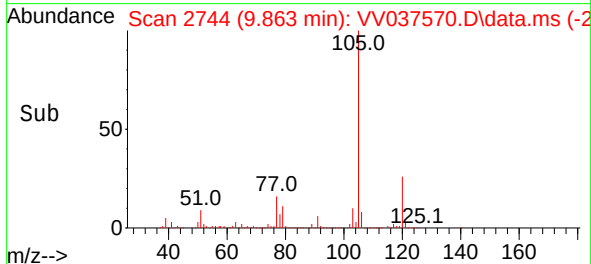
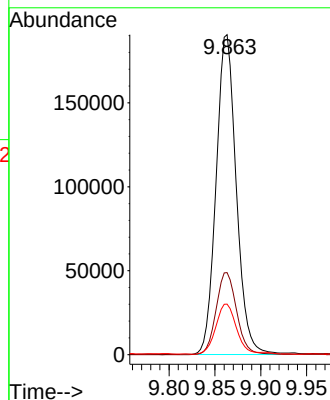
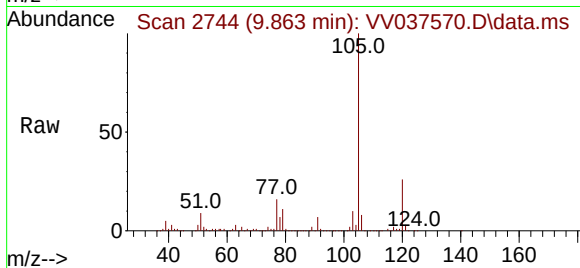
Tgt Ion:105 Resp: 291569

Ion Ratio Lower Upper

105 100

120 26.2 20.7 31.1

77 15.9 12.2 18.2



#62

1,3,5-Trimethylbenzene

Concen: 135.889 ug/L

RT: 10.468 min Scan# 2932

Delta R.T. -0.003 min

Lab File: VV037570.D

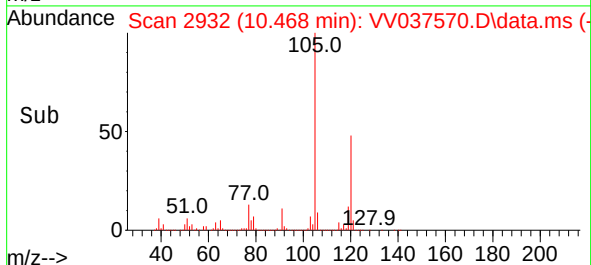
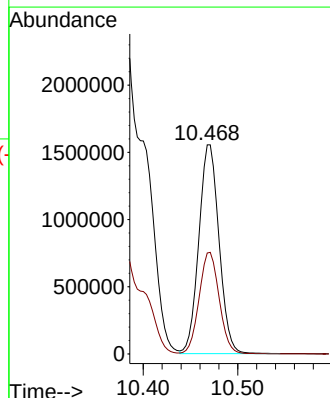
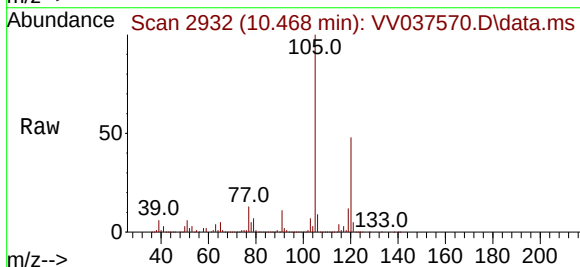
Acq: 27 Sep 2024 00:05

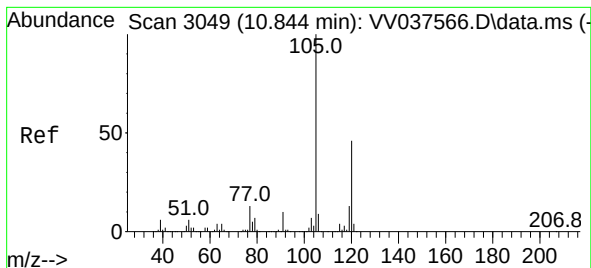
Tgt Ion:105 Resp: 2303737

Ion Ratio Lower Upper

105 100

120 48.3 39.3 58.9





#63

1,2,4-Trimethylbenzene

Concen: 508.512 ug/L

RT: 10.844 min Scan# 3049

Delta R.T. 0.000 min

Lab File: VV037570.D

Acq: 27 Sep 2024 00:05

Instrument :

MSVOA_V

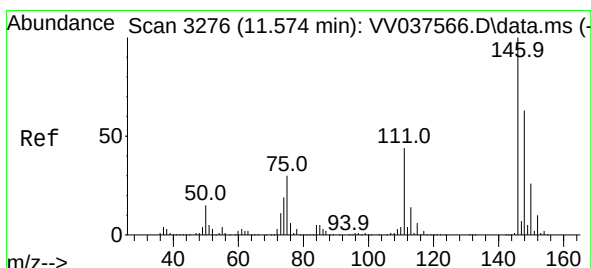
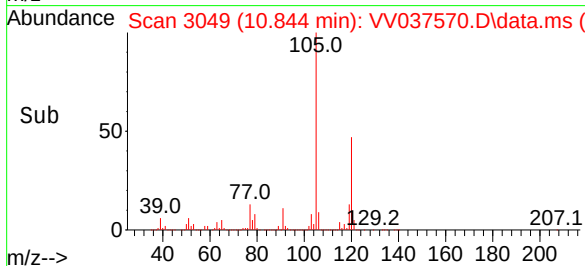
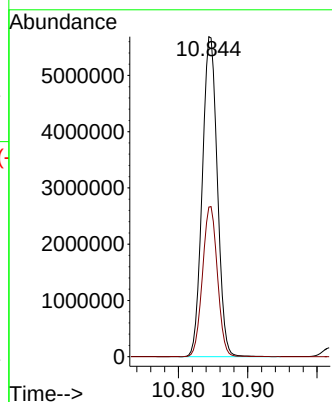
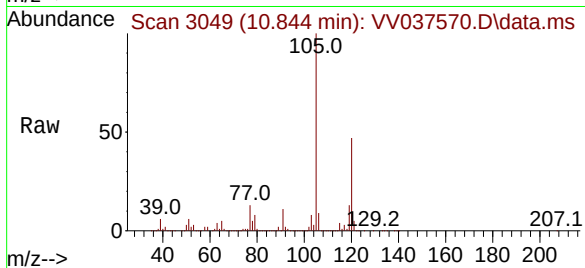
ClientSampleId :

Tgt Ion:105 Resp: 8577499

Ion Ratio Lower Upper

105 100

120 46.4 36.2 54.2



#67

1,2-Dichlorobenzene

Concen: 2.141 ug/L

RT: 11.574 min Scan# 3276

Delta R.T. 0.000 min

Lab File: VV037570.D

Acq: 27 Sep 2024 00:05

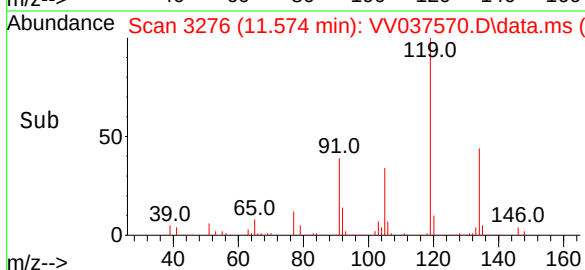
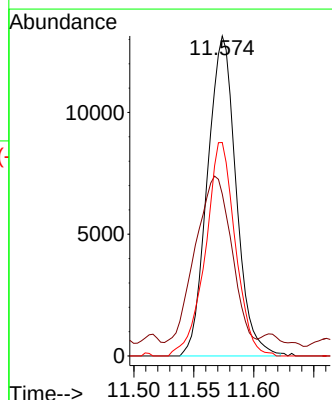
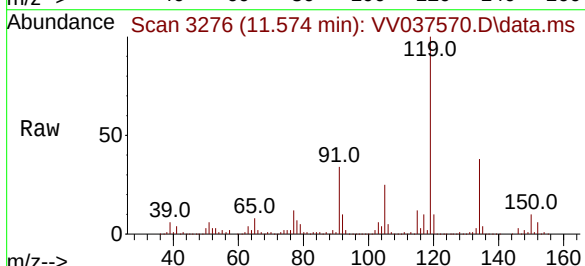
Tgt Ion:146 Resp: 21841

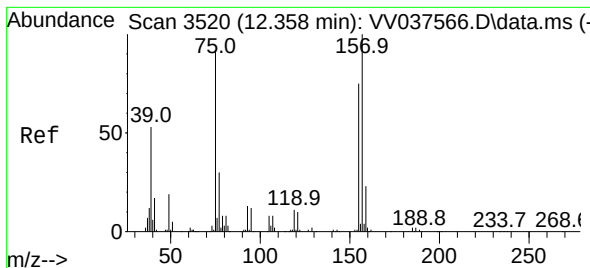
Ion Ratio Lower Upper

146 100

111 50.6 34.2 51.2

148 66.7 50.9 76.3





#68

1,2-Dibromo-3-chloropropane

Concen: 2.816 ug/L

RT: 12.345 min Scan# 3516

Delta R.T. -0.013 min

Lab File: VV037570.D

Acq: 27 Sep 2024 00:05

Instrument :

MSVOA_V

ClientSampleId :

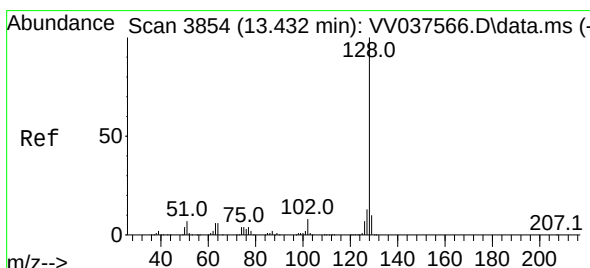
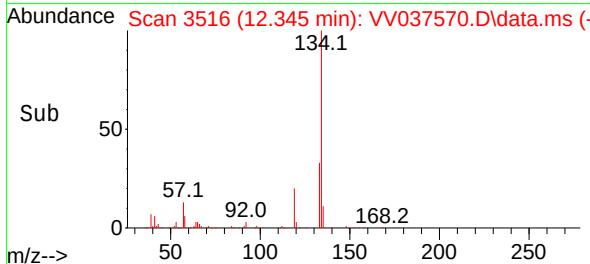
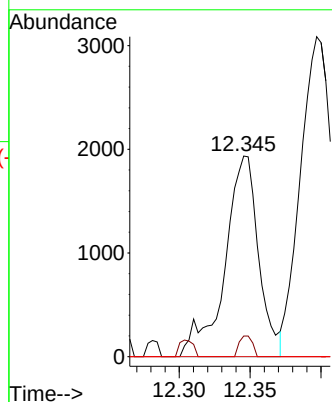
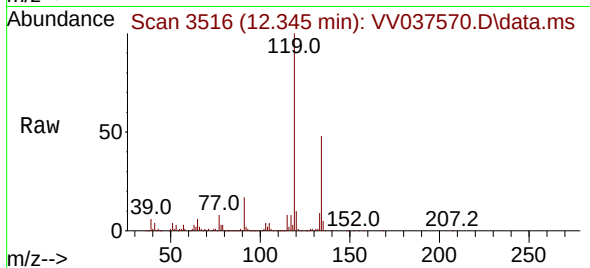
Tgt Ion: 75 Resp: 3208

Ion Ratio Lower Upper

75 100

155 10.3 66.2 99.4#

157 6.4 87.3 130.9#



#71

Naphthalene

Concen: 26.792 ug/L

RT: 13.432 min Scan# 3854

Delta R.T. 0.000 min

Lab File: VV037570.D

Acq: 27 Sep 2024 00:05

Tgt Ion: 128 Resp: 460963

Ion Ratio Lower Upper

128 100

127 12.8 10.2 15.4

129 11.3 8.5 12.7

