

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV111124\
 Data File : VV037997.D
 Acq On : 11 Nov 2024 15:26
 Operator : SY/MD
 Sample : P4749-22DL 2X
 Misc : 25mL/MSVOA_V/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Nov 12 04:41:12 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR110624WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Tue Nov 12 04:39:46 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.526	114	671242	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.776	117	670471	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.178	152	320768	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.275	65	177583	3.456	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	69.200%
7) Chloroethane-d5	1.529	69	143330	3.423	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	68.400%
11) 1,1-Dichloroethene-d2	2.053	65	77897	3.494	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	69.800%
20) 2-Butanone-d5	3.809	46	350752	36.628	ug/L	-0.01
Spiked Amount	50.000	Range	40 - 130	Recovery	=	73.260%
24) Chloroform-d	4.240	84	346890	3.704	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	74.000%
26) 1,2-Dichloroethane-d4	4.934	65	165535	3.955	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	79.000%
32) Benzene-d6	4.950	84	681842	3.943	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	78.800%
36) 1,2-Dichloropropane-d6	5.979	67	214346	4.245	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	85.000%
41) Toluene-d8	7.236	98	599540	3.858	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	77.200%
43) trans-1,3-Dichloroprop...	7.551	79	71141	3.644	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	72.800%
46) 2-Hexanone-d5	8.021	63	325011	42.836	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	85.680%
56) 1,1,2,2-Tetrachloroeth...	10.146	84	158982	3.905	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	78.200%
66) 1,2-Dichlorobenzene-d4	11.551	152	232620	4.397	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	88.000%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.281	62	493981	7.873	ug/L	99
8) Chloroethane	1.281	64	160936	4.311	ug/L #	45
12) 1,1-Dichloroethene	2.063	96	159852	3.486	ug/L	97
16) Methylene chloride	2.442	84	119489	2.232	ug/L	99
18) trans-1,2-Dichloroethene	2.690	96	71250	1.439	ug/L	97
22) cis-1,2-Dichloroethene	3.812	96	24810	0.475	ug/L	98
27) 1,2-Dichloroethane	5.043	62	46520	0.888	ug/L	98
29) 1,1,1-Trichloroethane	4.500	97	298146	3.720	ug/L	99
31) Carbon tetrachloride	4.728	117	51345	0.730	ug/L	96
33) Benzene	5.008	78	109192	0.593	ug/L	100
34) Trichloroethene	5.828	95	72915	1.429	ug/L	97
35) Methylcyclohexane	5.982	83	52585	0.691	ug/L #	20
37) 1,2-Dichloropropane	6.085	63	83449	1.812	ug/L	99
42) Toluene	7.310	91	375401	1.926	ug/L	99
45) 1,1,1,2-Trichloroethane	7.764	97	92927	2.666	ug/L	99
47) Tetrachloroethene	7.895	164	134802	3.399	ug/L	98
49) Dibromochloromethane	7.895	129	124406	3.122	ug/L #	12
51) Chlorobenzene	8.805	112	461888	3.464	ug/L	97
52) Ethylbenzene	8.944	91	99250	0.473	ug/L	98

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

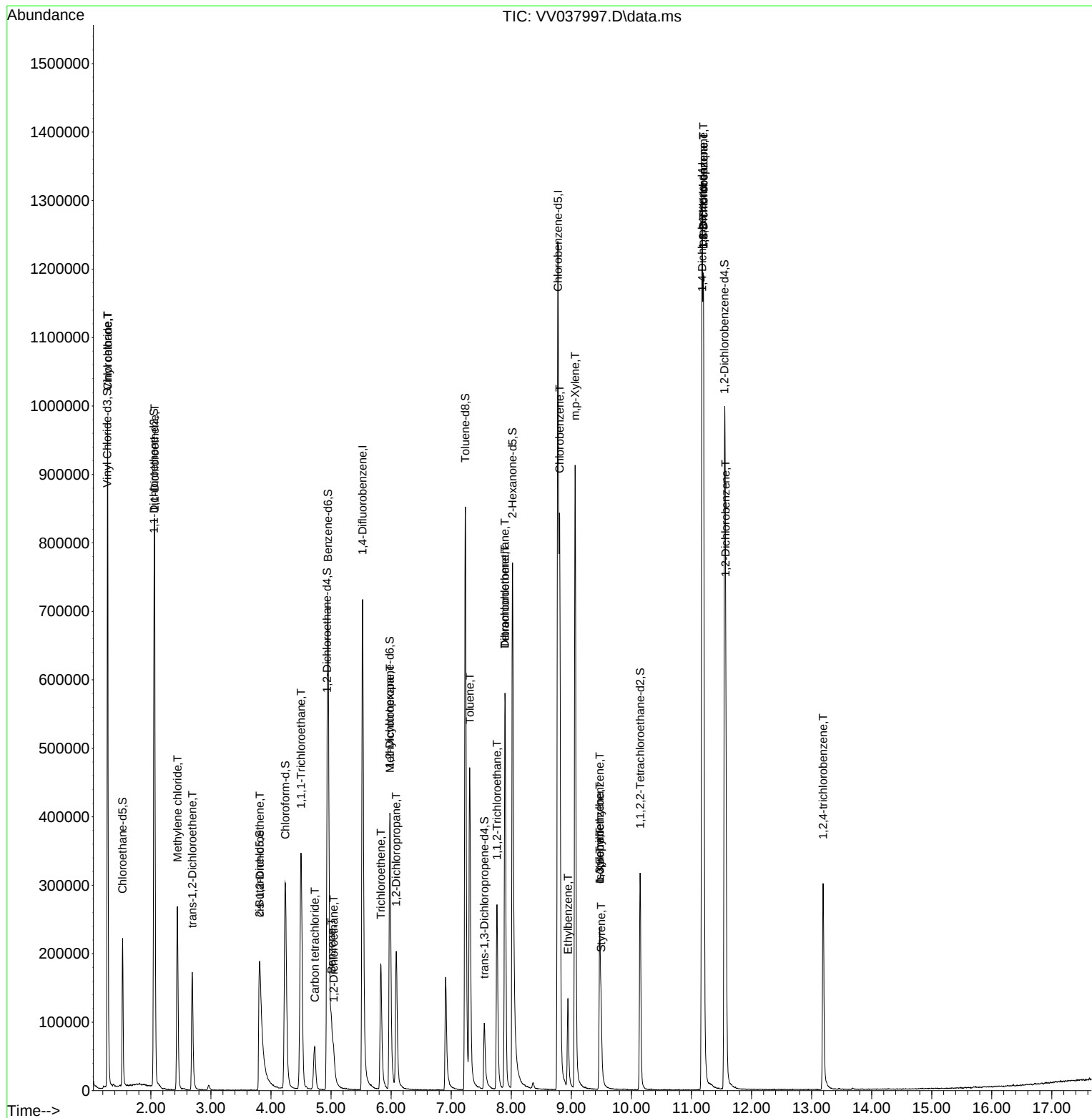
53) m,p-Xylene	9.063	106	262910	3.282	ug/L	98
54) o-Xylene	9.474	106	61973	0.813	ug/L	94
55) Styrene	9.497	104	73024	0.556	ug/L	94
60) Isopropylbenzene	9.474	105	32302	0.173	ug/L #	1
61) 1,2,3-Trichloropropane	11.201	75	168351	6.712	ug/L #	52
62) 1,3,5-Trimethylbenzene	9.474	105	32302	0.220	ug/L #	28
64) 1,3-Dichlorobenzene	11.201	146	453038	4.787	ug/L	98
65) 1,4-Dichlorobenzene	11.201	146	453038	4.635	ug/L	100
67) 1,2-Dichlorobenzene	11.570	146	202932	2.319	ug/L	99
70) 1,2,4-trichlorobenzene	13.191	180	103208	1.968	ug/L	99

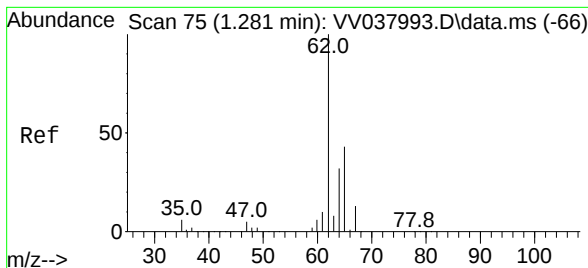
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 7.873 ug/L

RT: 1.281 min Scan# 75

Delta R.T. 0.000 min

Lab File: VV037997.D

Acq: 11 Nov 2024 15:26

Instrument :

MSVOA_V

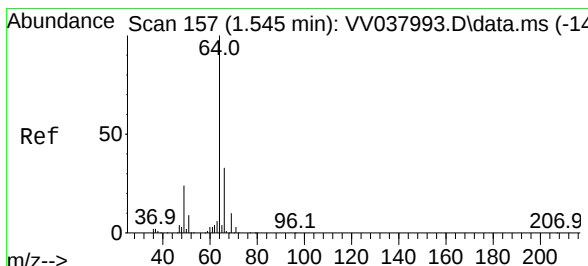
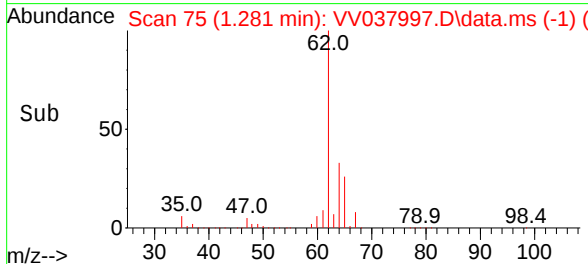
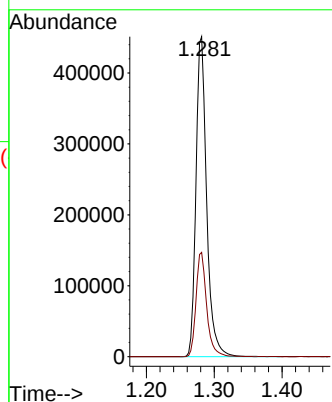
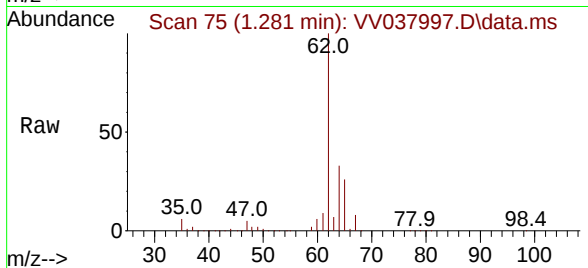
ClientSampleId :

Tgt Ion: 62 Resp: 493981

Ion Ratio Lower Upper

62 100

64 32.6 22.4 41.6



#8

Chloroethane

Concen: 4.311 ug/L

RT: 1.281 min Scan# 75

Delta R.T. -0.264 min

Lab File: VV037997.D

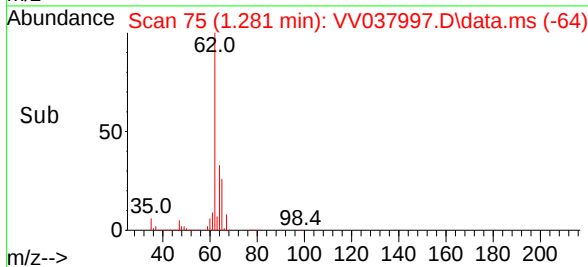
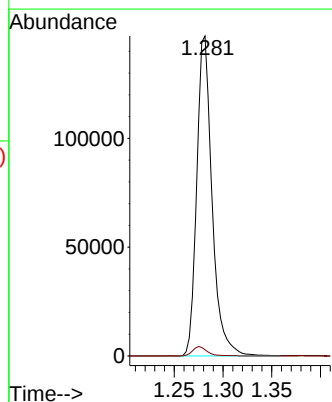
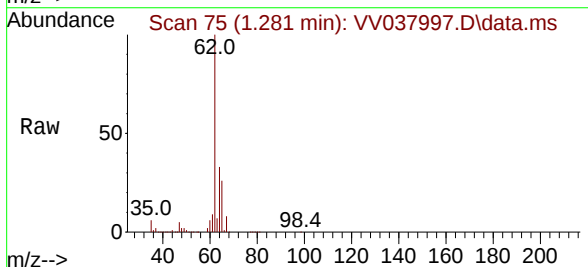
Acq: 11 Nov 2024 15:26

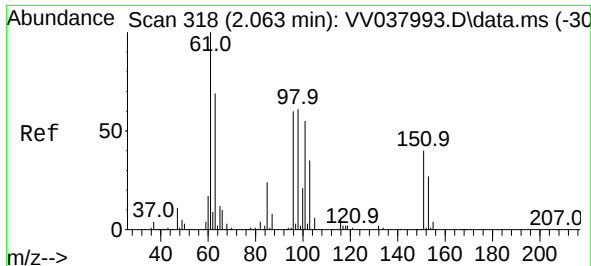
Tgt Ion: 64 Resp: 160936

Ion Ratio Lower Upper

64 100

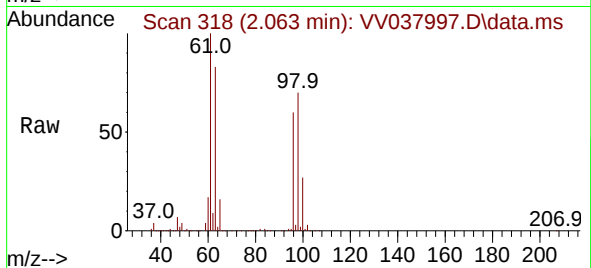
66 1.9 23.0 42.8#



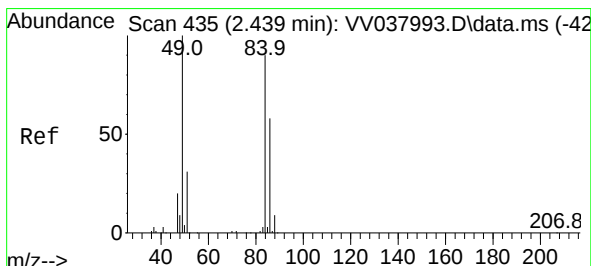
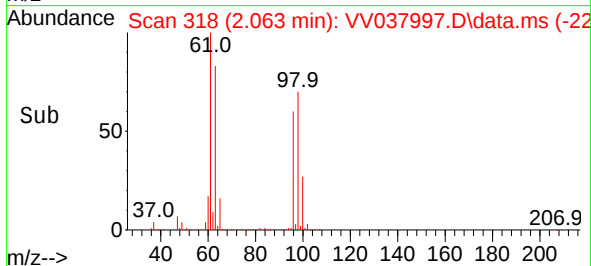
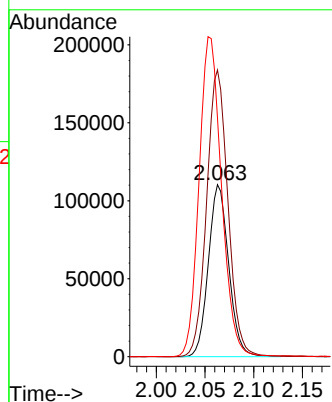


#12
1,1-Dichloroethene
Concen: 3.486 ug/L
RT: 2.063 min Scan# 318
Delta R.T. 0.000 min
Lab File: VV037997.D
Acq: 11 Nov 2024 15:26

Instrument :
MSVOA_V
ClientSampleId :

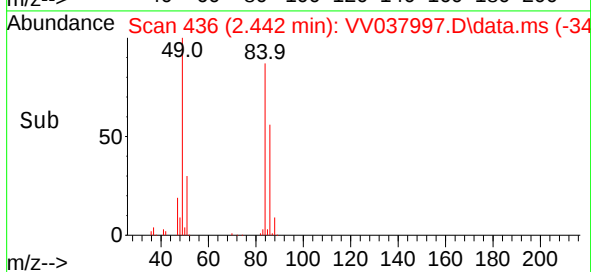
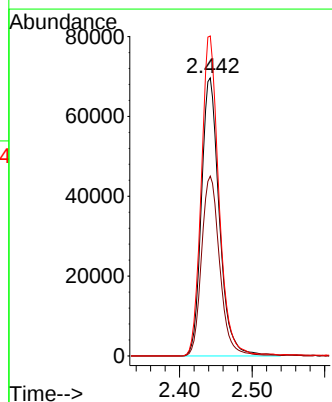
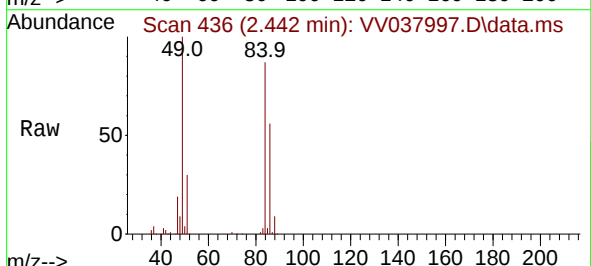


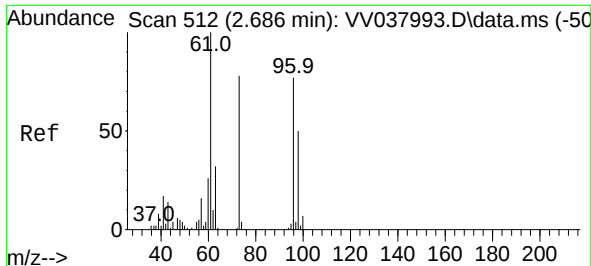
Tgt Ion: 96 Resp: 159852
Ion Ratio Lower Upper
96 100
61 166.7 117.4 218.0
63 138.8 91.7 170.3



#16
Methylene chloride
Concen: 2.232 ug/L
RT: 2.442 min Scan# 436
Delta R.T. 0.003 min
Lab File: VV037997.D
Acq: 11 Nov 2024 15:26

Tgt Ion: 84 Resp: 119489
Ion Ratio Lower Upper
84 100
86 64.6 45.0 83.6
49 115.1 79.2 147.2





#18

trans-1,2-Dichloroethene

Concen: 1.439 ug/L

RT: 2.690 min Scan# 512

Delta R.T. 0.003 min

Lab File: VV037997.D

Acq: 11 Nov 2024 15:26

Instrument :

MSVOA_V

ClientSampleId :

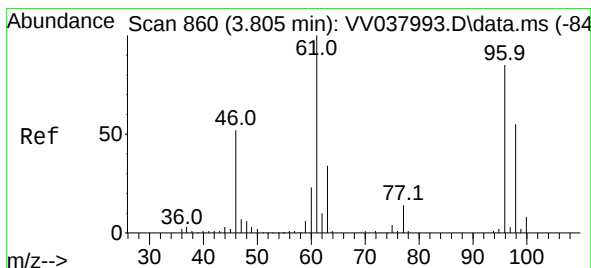
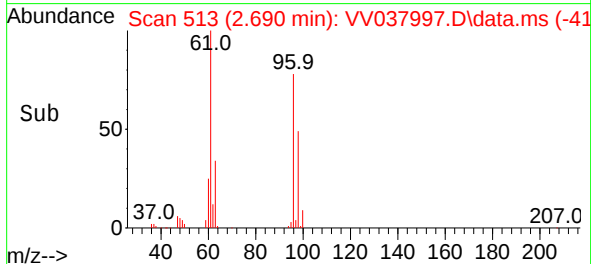
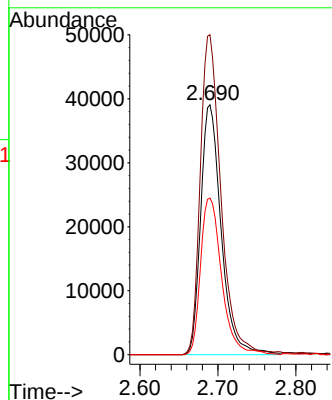
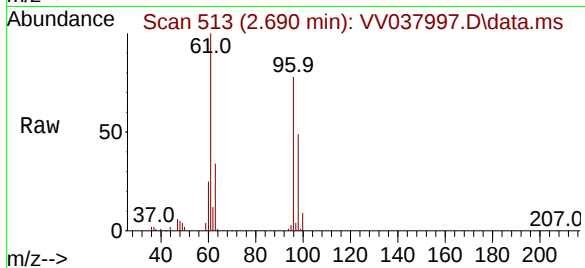
Tgt Ion: 96 Resp: 71250

Ion Ratio Lower Upper

96 100

61 128.1 93.2 173.0

98 62.7 44.4 82.4



#22

cis-1,2-Dichloroethene

Concen: 0.475 ug/L

RT: 3.812 min Scan# 862

Delta R.T. 0.007 min

Lab File: VV037997.D

Acq: 11 Nov 2024 15:26

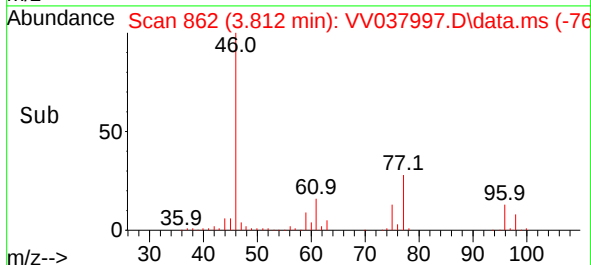
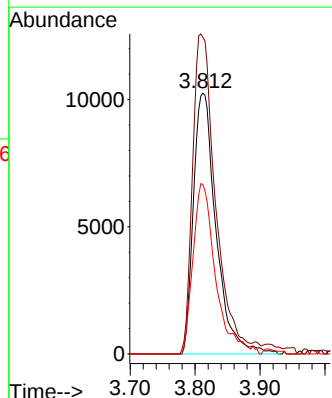
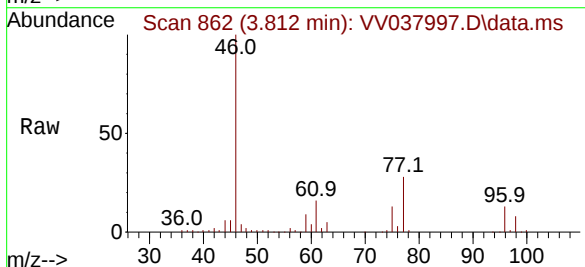
Tgt Ion: 96 Resp: 24810

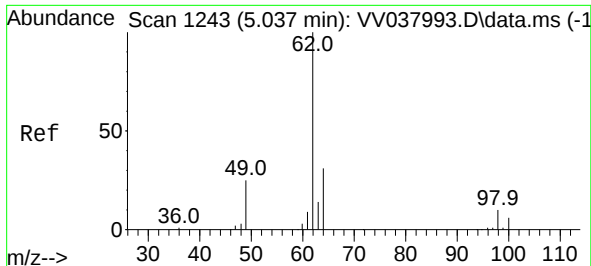
Ion Ratio Lower Upper

96 100

61 121.4 83.4 154.8

98 65.1 44.6 82.8

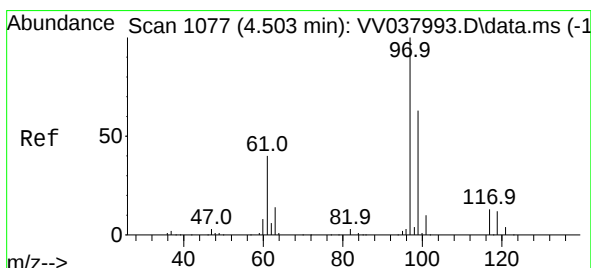
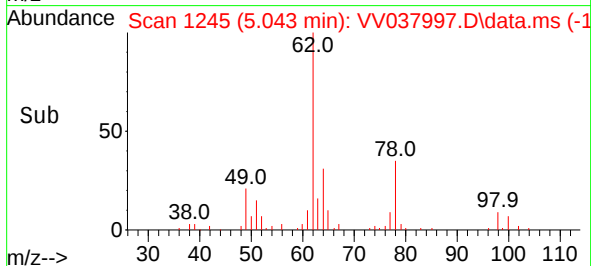
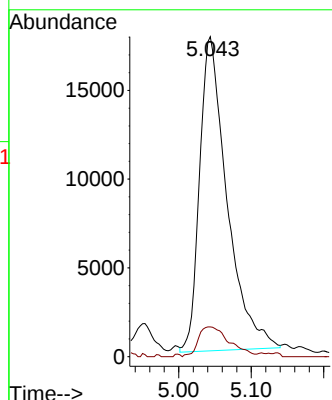
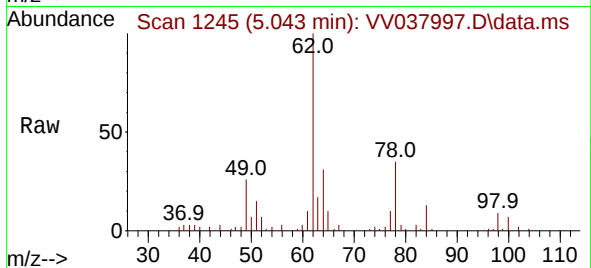




#27
1,2-Dichloroethane
Concen: 0.888 ug/L
RT: 5.043 min Scan# 11
Delta R.T. 0.007 min
Lab File: VV037997.D
Acq: 11 Nov 2024 15:26

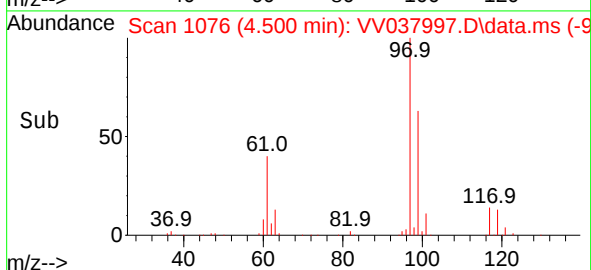
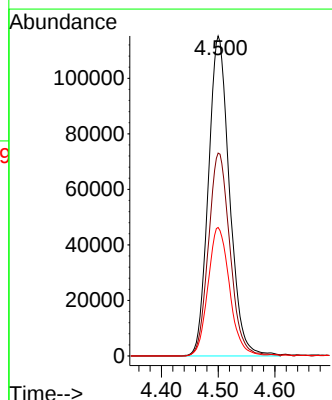
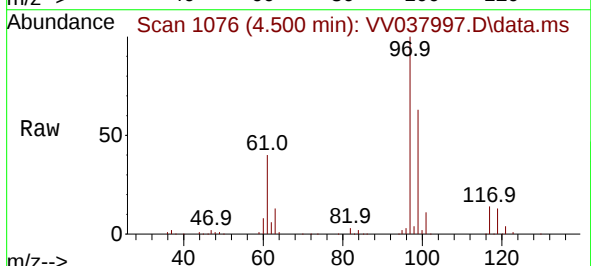
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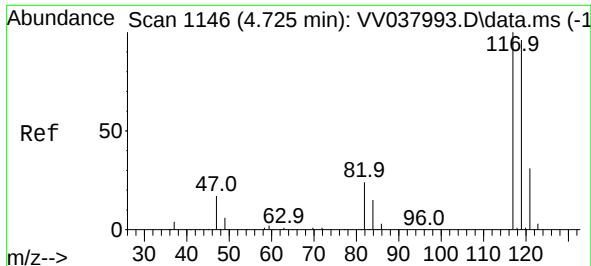
Tgt Ion: 62 Resp: 46520
Ion Ratio Lower Upper
62 100
98 9.3 8.1 12.1



#29
1,1,1-Trichloroethane
Concen: 3.720 ug/L
RT: 4.500 min Scan# 1076
Delta R.T. -0.003 min
Lab File: VV037997.D
Acq: 11 Nov 2024 15:26

Tgt Ion: 97 Resp: 298146
Ion Ratio Lower Upper
97 100
99 64.6 52.1 78.1
61 41.1 33.3 49.9

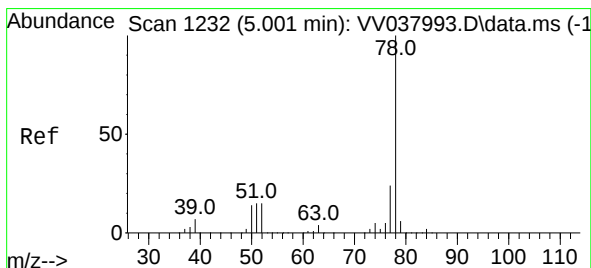
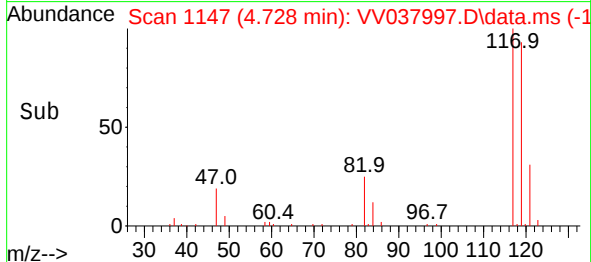
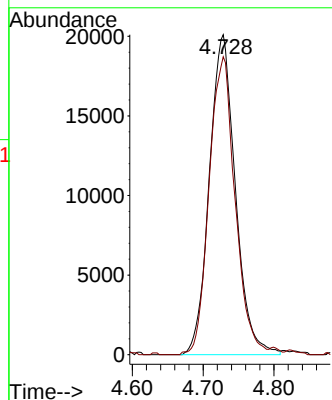
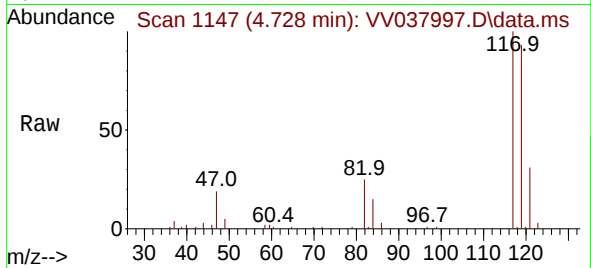




#31
Carbon tetrachloride
Concen: 0.730 ug/L
RT: 4.728 min Scan# 1146
Delta R.T. 0.003 min
Lab File: VV037997.D
Acq: 11 Nov 2024 15:26

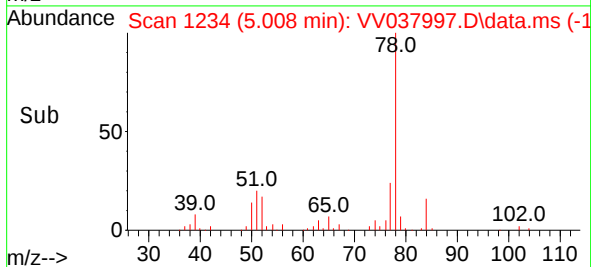
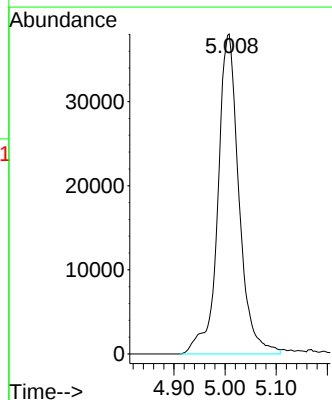
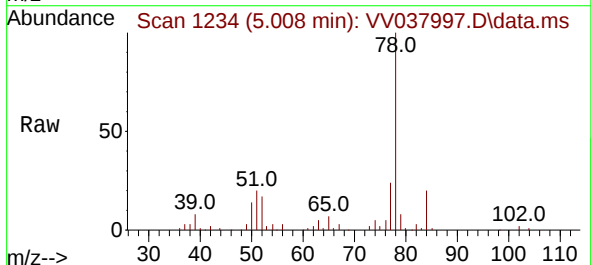
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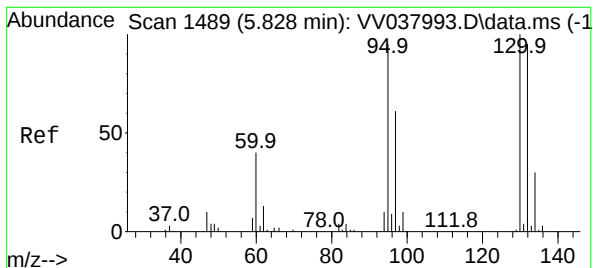
Tgt Ion:117 Resp: 51345
Ion Ratio Lower Upper
117 100
119 92.7 77.2 115.8



#33
Benzene
Concen: 0.593 ug/L
RT: 5.008 min Scan# 1234
Delta R.T. 0.007 min
Lab File: VV037997.D
Acq: 11 Nov 2024 15:26

Tgt Ion: 78 Resp: 109192





#34

Trichloroethene

Concen: 1.429 ug/L

RT: 5.828 min Scan# 1489

Delta R.T. 0.000 min

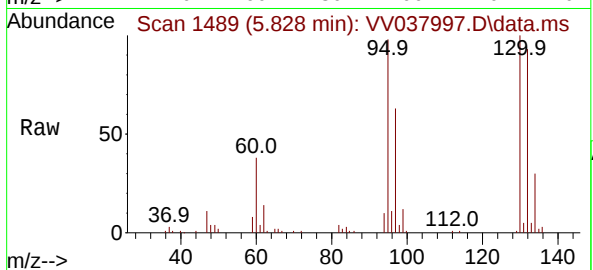
Lab File: VV037997.D

Acq: 11 Nov 2024 15:26

Instrument :

MSVOA_V

ClientSampleId :



Tgt Ion: 95 Resp: 72915

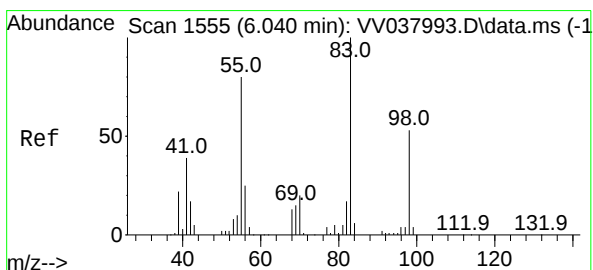
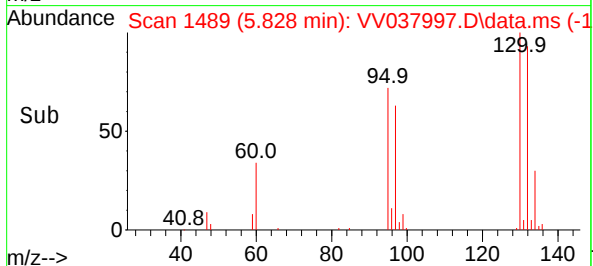
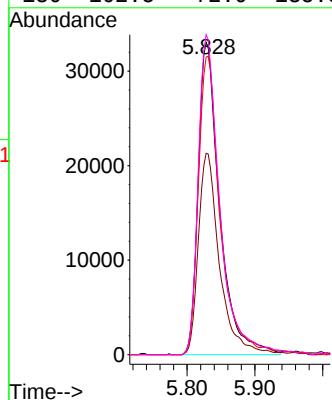
Ion Ratio Lower Upper

95 100

97 64.5 46.9 87.1

132 95.3 70.5 130.9

130 102.5 72.9 135.3



#35

Methylcyclohexane

Concen: 0.691 ug/L

RT: 5.982 min Scan# 1537

Delta R.T. -0.058 min

Lab File: VV037997.D

Acq: 11 Nov 2024 15:26

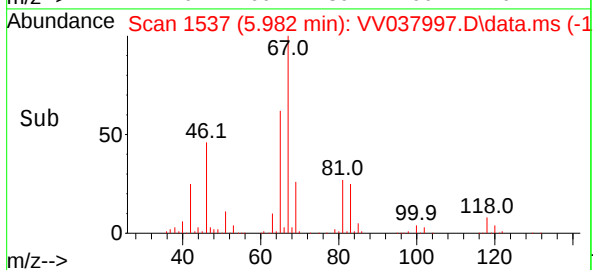
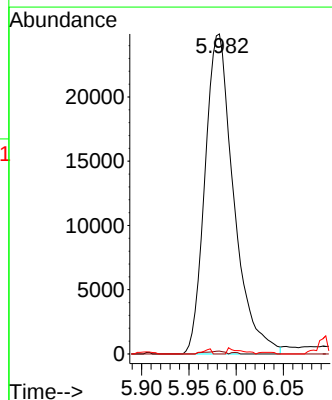
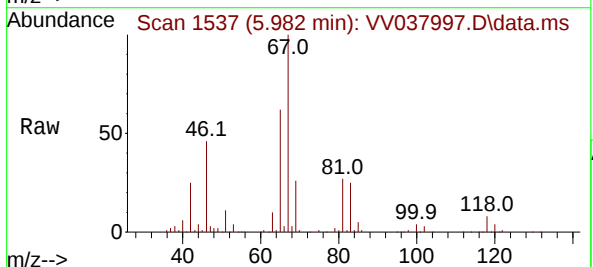
Tgt Ion: 83 Resp: 52585

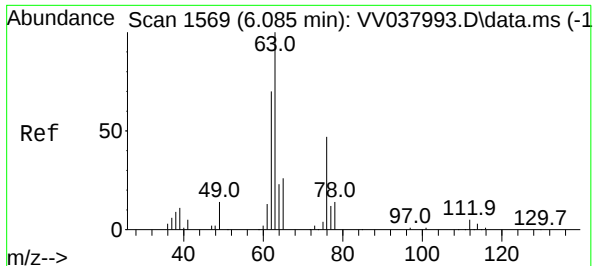
Ion Ratio Lower Upper

83 100

55 0.6 59.3 88.9#

98 0.4 38.3 57.5#

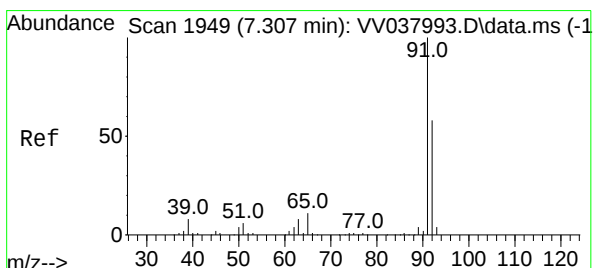
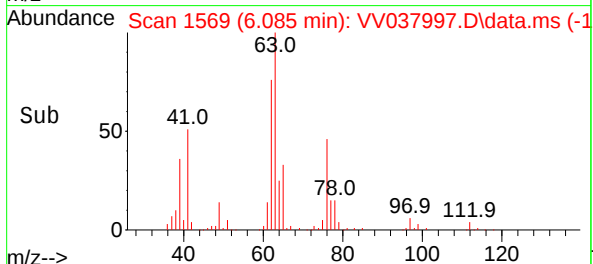
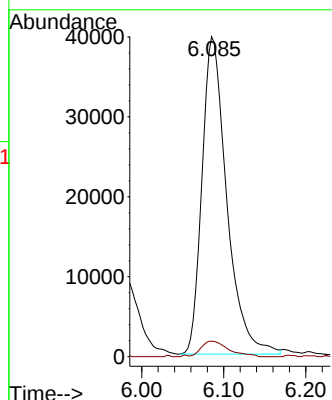
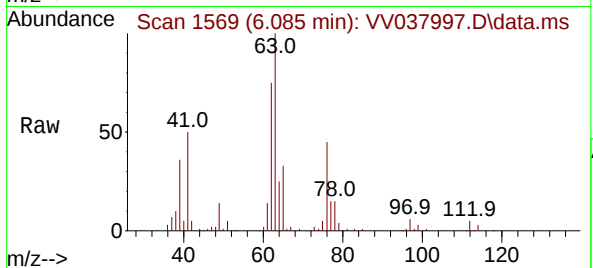




#37
1,2-Dichloropropane
Concen: 1.812 ug/L
RT: 6.085 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VV037997.D
Acq: 11 Nov 2024 15:26

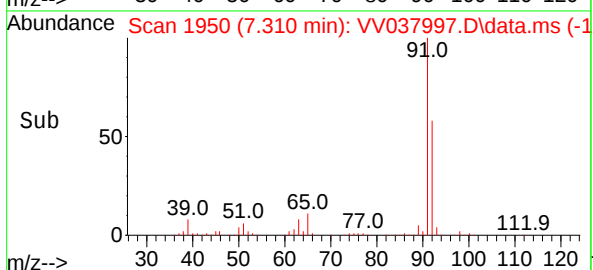
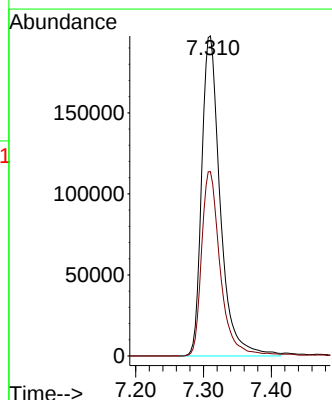
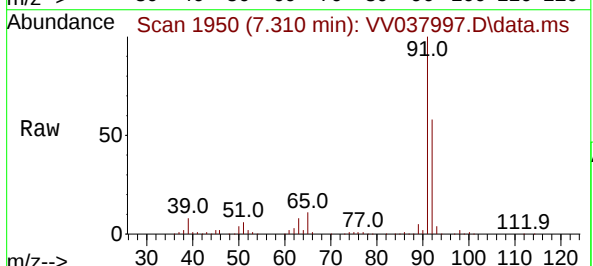
Instrument :
MSVOA_V
ClientSampleId :

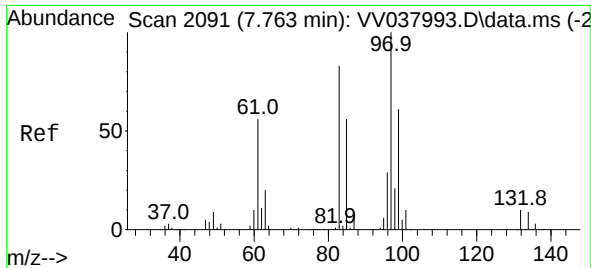
Tgt Ion: 63 Resp: 83449
Ion Ratio Lower Upper
63 100
112 5.4 4.1 6.1



#42
Toluene
Concen: 1.926 ug/L
RT: 7.310 min Scan# 1950
Delta R.T. 0.003 min
Lab File: VV037997.D
Acq: 11 Nov 2024 15:26

Tgt Ion: 91 Resp: 375401
Ion Ratio Lower Upper
91 100
92 57.6 40.7 75.7

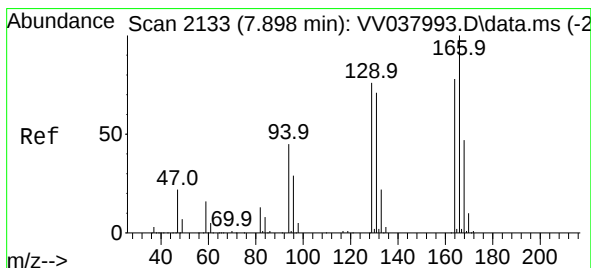
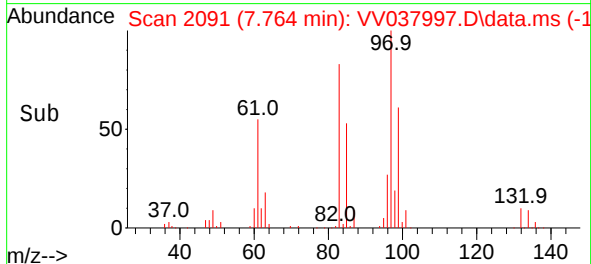
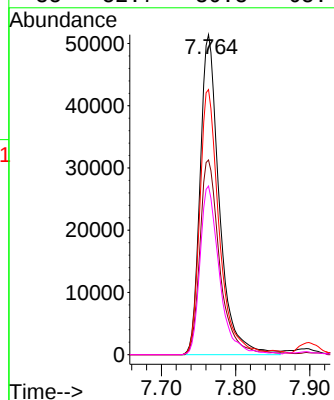
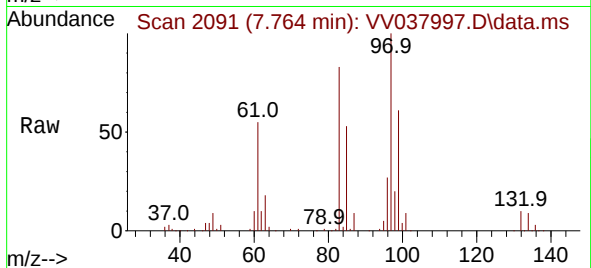




#45
1,1,2-Trichloroethane
Concen: 2.666 ug/L
RT: 7.764 min Scan# 2091
Delta R.T. 0.000 min
Lab File: VV037997.D
Acq: 11 Nov 2024 15:26

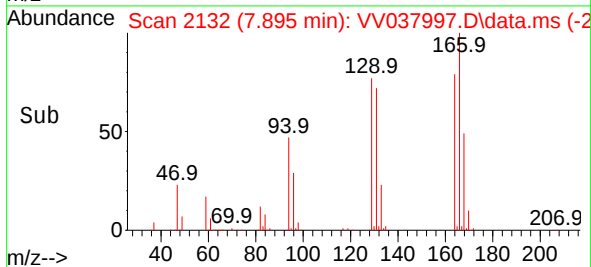
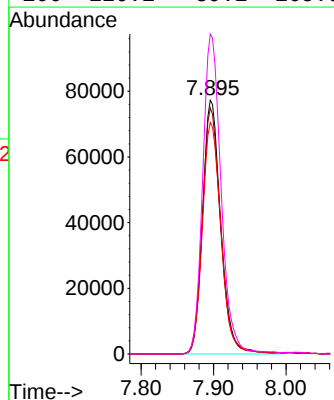
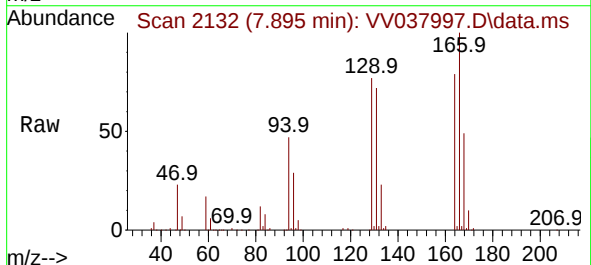
Instrument :
MSVOA_V
ClientSampleId :

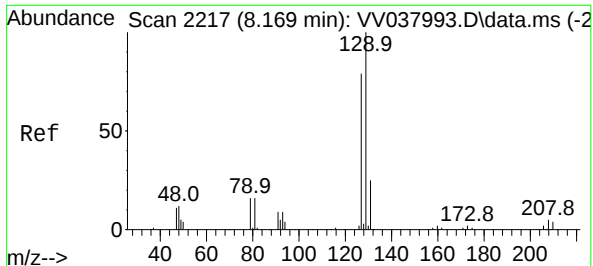
Tgt Ion:	97	Resp:	92927
Ion	Ratio	Lower	Upper
97	100		
99	60.9	42.4	78.8
83	82.9	59.3	110.1
85	52.7	36.8	68.4



#47
Tetrachloroethene
Concen: 3.399 ug/L
RT: 7.895 min Scan# 2132
Delta R.T. -0.003 min
Lab File: VV037997.D
Acq: 11 Nov 2024 15:26

Tgt Ion:	164	Resp:	134802
Ion	Ratio	Lower	Upper
164	100		
129	96.9	66.8	124.2
131	91.2	65.2	121.2
166	126.1	89.2	165.8





#49

Dibromochloromethane

Concen: 3.122 ug/L

RT: 7.895 min Scan# 2132

Delta R.T. -0.273 min

Lab File: VV037997.D

Acq: 11 Nov 2024 15:26

Instrument :

MSVOA_V

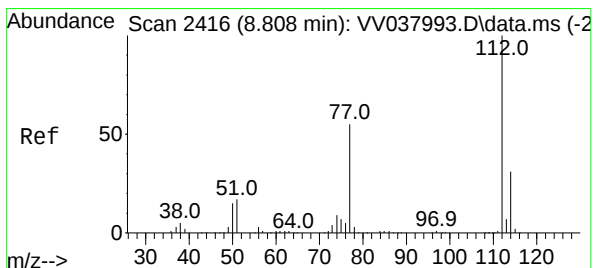
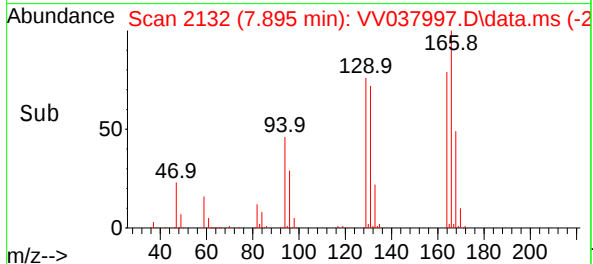
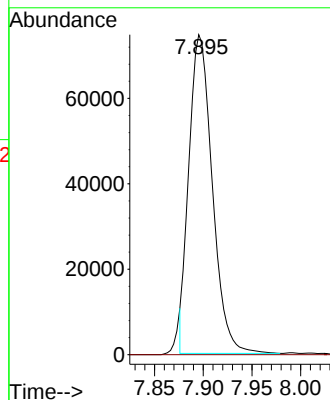
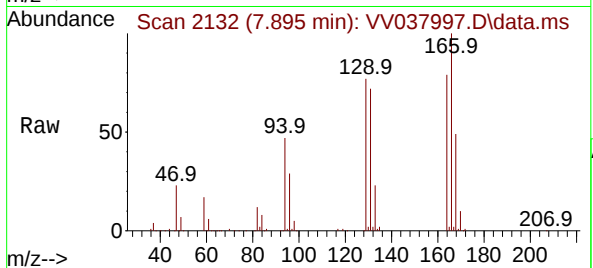
ClientSampleId :

Tgt Ion:129 Resp: 124406

Ion Ratio Lower Upper

129 100

127 0.0 52.2 97.0#



#51

Chlorobenzene

Concen: 3.464 ug/L

RT: 8.805 min Scan# 2415

Delta R.T. -0.003 min

Lab File: VV037997.D

Acq: 11 Nov 2024 15:26

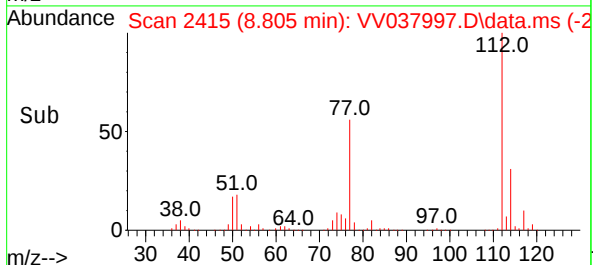
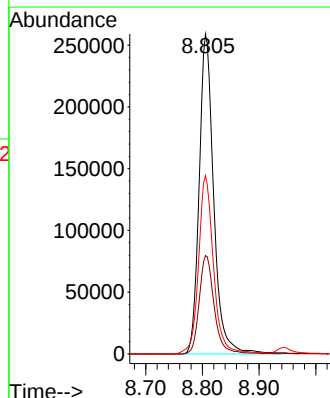
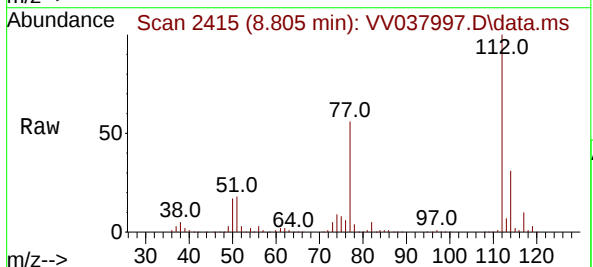
Tgt Ion:112 Resp: 461888

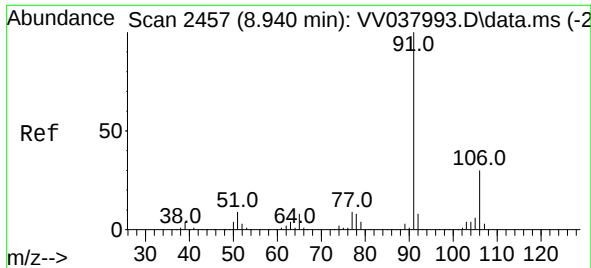
Ion Ratio Lower Upper

112 100

114 30.7 23.0 42.6

77 55.7 45.9 68.9





#52

Ethylbenzene

Concen: 0.473 ug/L

RT: 8.944 min Scan# 2457

Delta R.T. 0.003 min

Lab File: VV037997.D

Acq: 11 Nov 2024 15:26

Instrument :

MSVOA_V

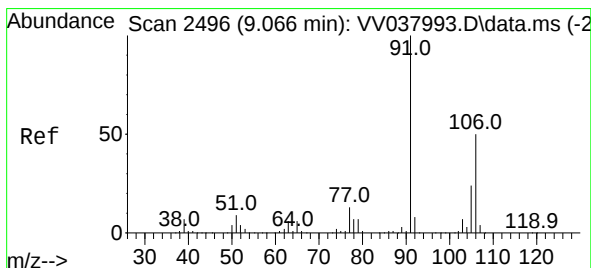
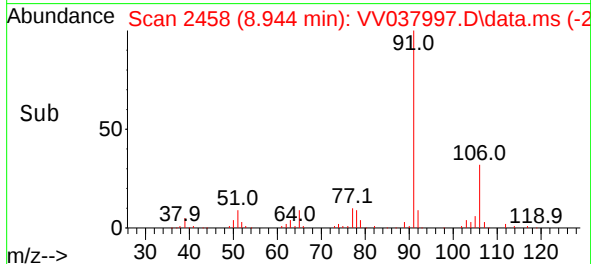
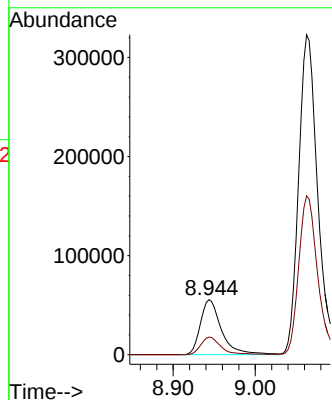
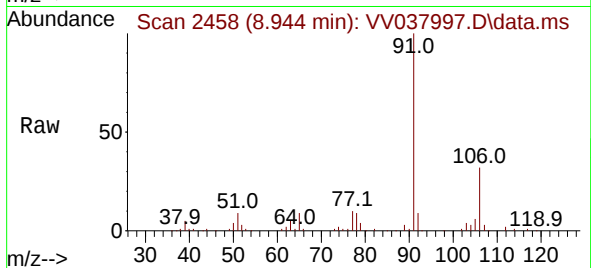
ClientSampleId :

Tgt Ion: 91 Resp: 99250

Ion Ratio Lower Upper

91 100

106 32.1 21.8 40.4



#53

m,p-Xylene

Concen: 3.282 ug/L

RT: 9.063 min Scan# 2495

Delta R.T. -0.003 min

Lab File: VV037997.D

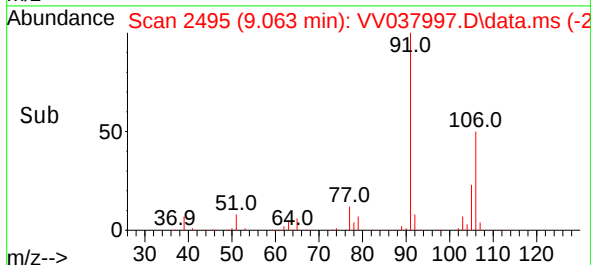
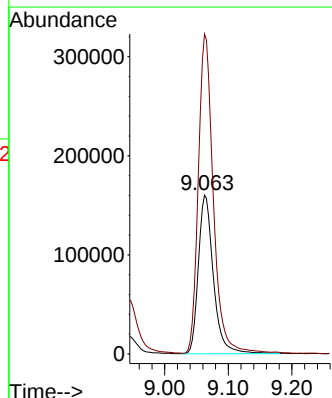
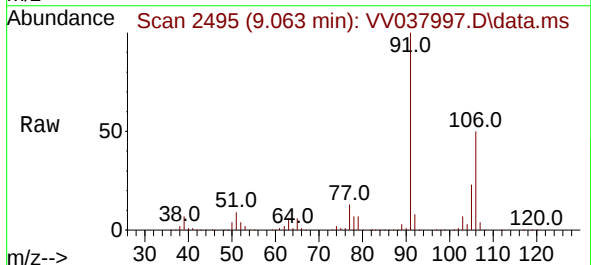
Acq: 11 Nov 2024 15:26

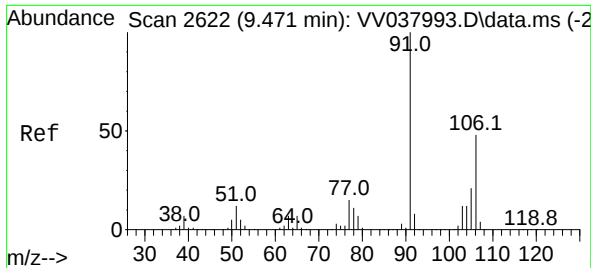
Tgt Ion: 106 Resp: 262910

Ion Ratio Lower Upper

106 100

91 201.4 139.0 258.2





#54

o-Xylene

Concen: 0.813 ug/L

RT: 9.474 min Scan# 2

Delta R.T. 0.003 min

Lab File: VV037997.D

Acq: 11 Nov 2024 15:26

Instrument :

MSVOA_V

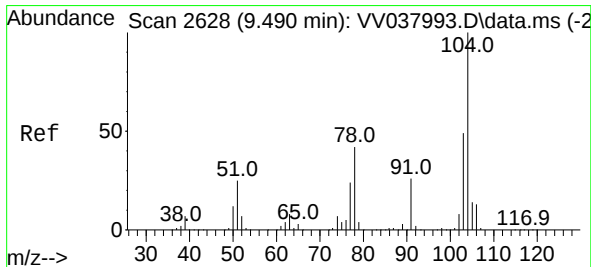
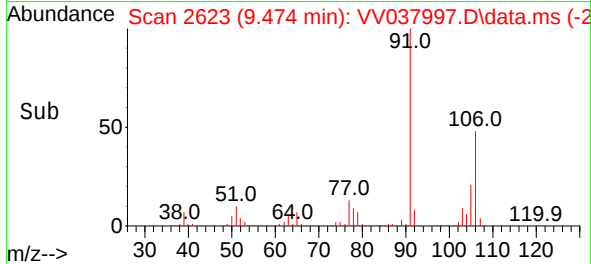
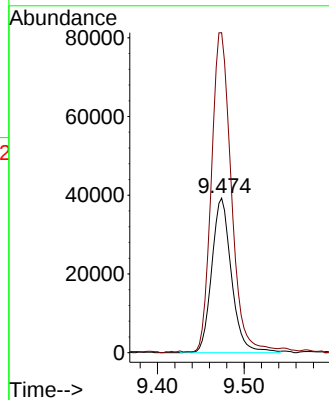
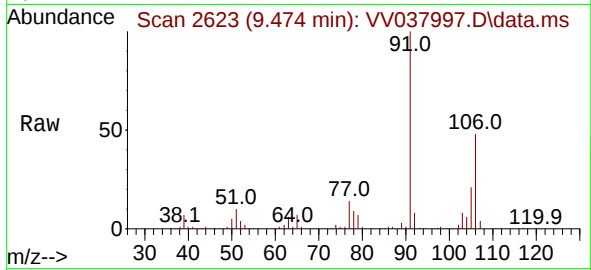
ClientSampleId :

Tgt Ion:106 Resp: 61973

Ion Ratio Lower Upper

106 100

91 207.0 152.0 282.2



#55

Styrene

Concen: 0.556 ug/L

RT: 9.497 min Scan# 2630

Delta R.T. 0.007 min

Lab File: VV037997.D

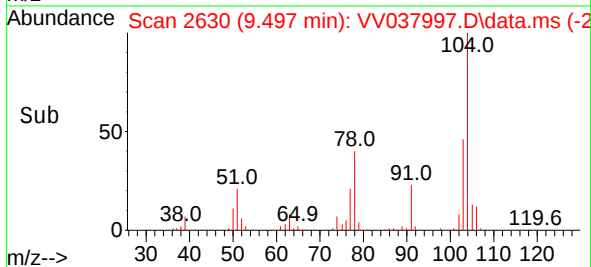
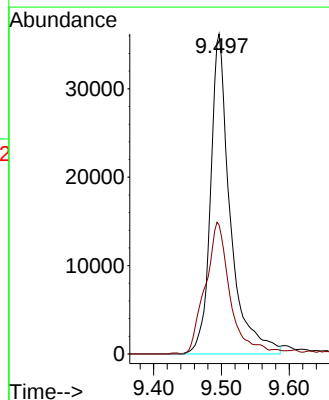
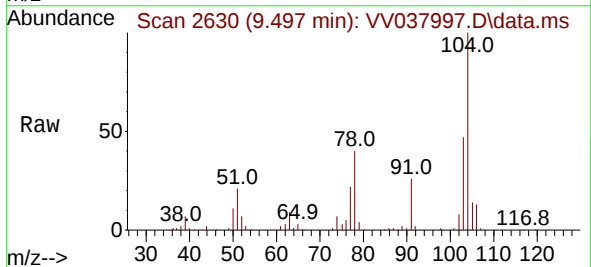
Acq: 11 Nov 2024 15:26

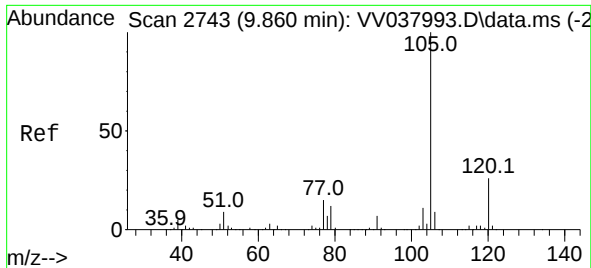
Tgt Ion:104 Resp: 73024

Ion Ratio Lower Upper

104 100

78 40.3 30.9 57.3

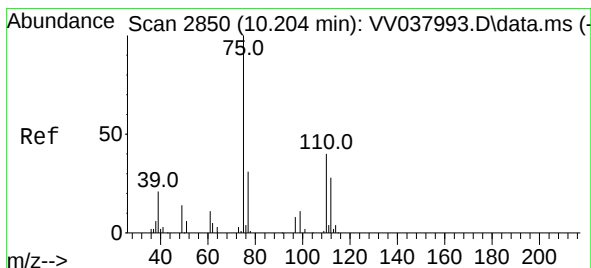
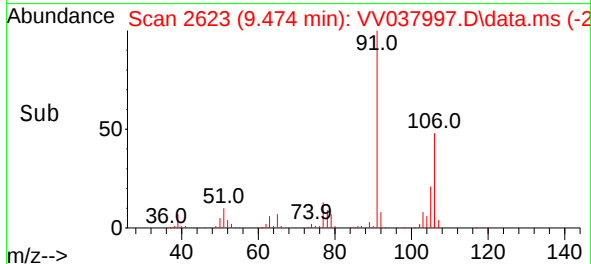
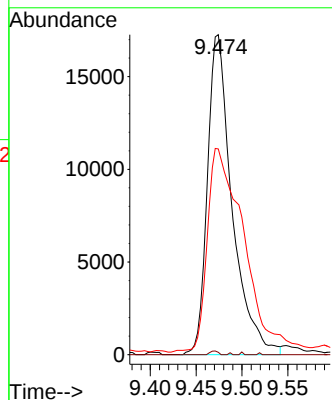
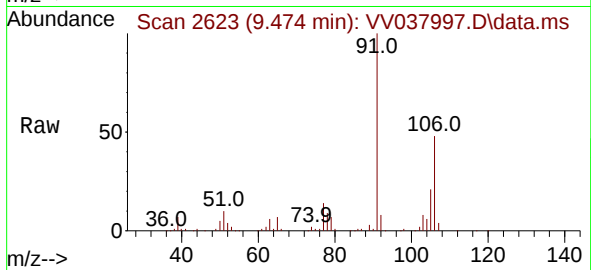




#60
Isopropylbenzene
Concen: 0.173 ug/L
RT: 9.474 min Scan# 2
Delta R.T. -0.386 min
Lab File: VV037997.D
Acq: 11 Nov 2024 15:26

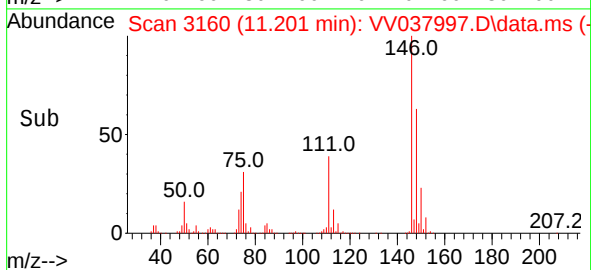
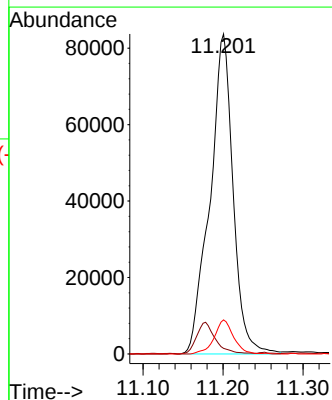
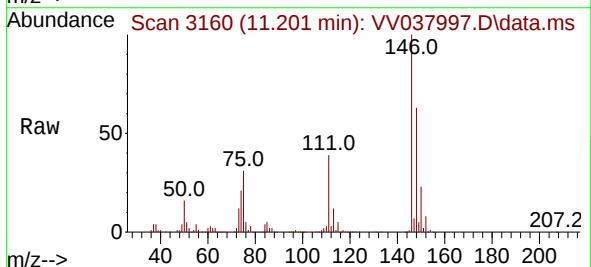
Instrument :
MSVOA_V
ClientSampleId :

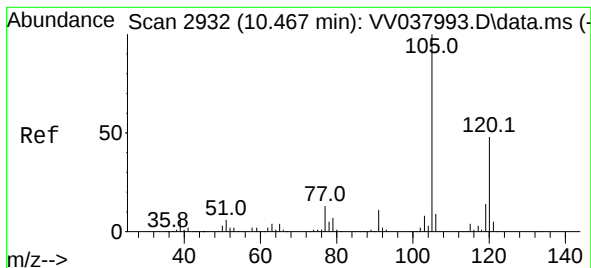
Tgt Ion:105 Resp: 32302
Ion Ratio Lower Upper
105 100
120 0.0 21.0 31.4#
77 94.6 12.2 18.2#



#61
1,2,3-Trichloropropane
Concen: 6.712 ug/L
RT: 11.201 min Scan# 3160
Delta R.T. 0.997 min
Lab File: VV037997.D
Acq: 11 Nov 2024 15:26

Tgt Ion: 75 Resp: 168351
Ion Ratio Lower Upper
75 100
77 8.2 24.9 37.3#
110 8.9 33.5 50.3#





#62

1,3,5-Trimethylbenzene

Concen: 0.220 ug/L

RT: 9.474 min Scan# 2

Delta R.T. -0.993 min

Lab File: VV037997.D

Acq: 11 Nov 2024 15:26

Instrument :

MSVOA_V

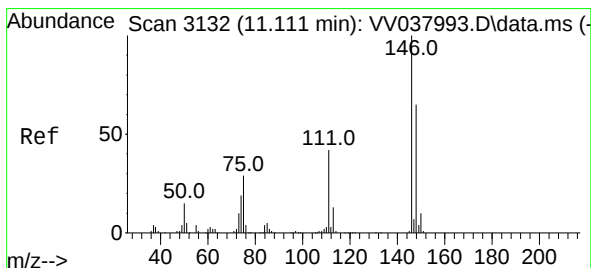
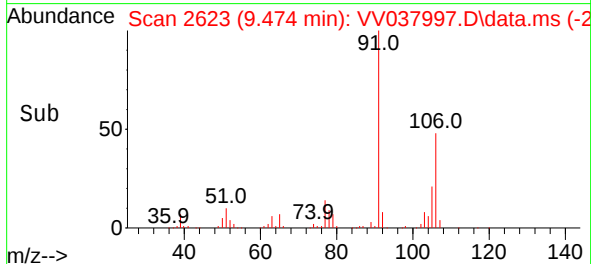
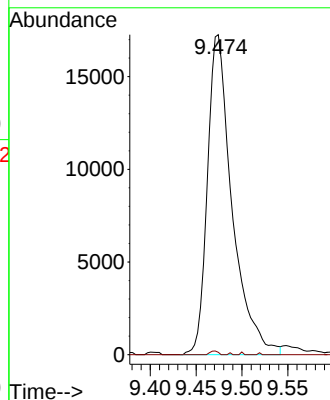
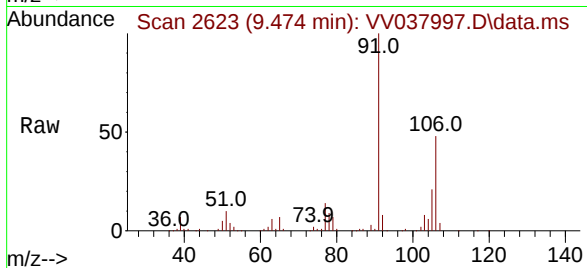
ClientSampleId :

Tgt Ion:105 Resp: 32302

Ion Ratio Lower Upper

105 100

120 0.0 39.0 58.6#



#64

1,3-Dichlorobenzene

Concen: 4.787 ug/L

RT: 11.201 min Scan# 3160

Delta R.T. 0.090 min

Lab File: VV037997.D

Acq: 11 Nov 2024 15:26

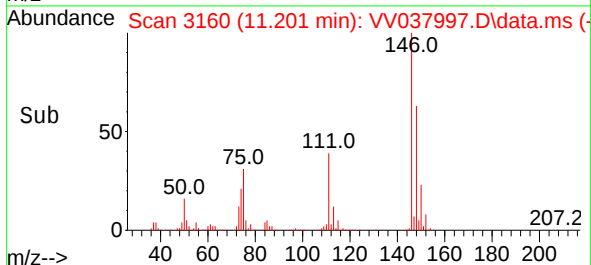
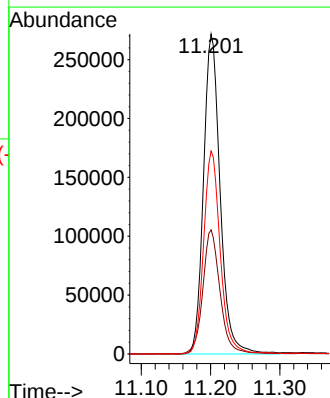
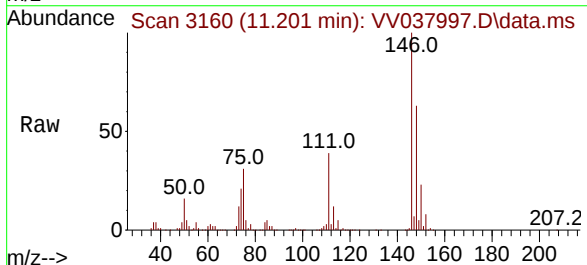
Tgt Ion:146 Resp: 453038

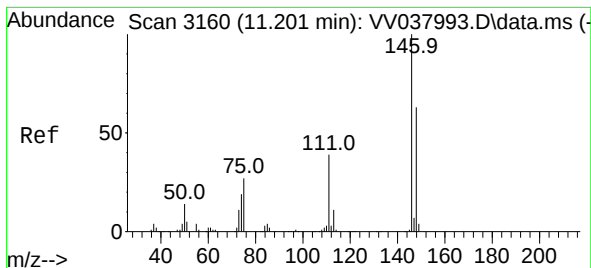
Ion Ratio Lower Upper

146 100

111 38.8 28.7 53.3

148 63.4 44.6 82.8





#65

1,4-Dichlorobenzene

Concen: 4.635 ug/L

RT: 11.201 min Scan# 3160

Delta R.T. 0.000 min

Lab File: VV037997.D

Acq: 11 Nov 2024 15:26

Instrument :

MSVOA_V

ClientSampleId :

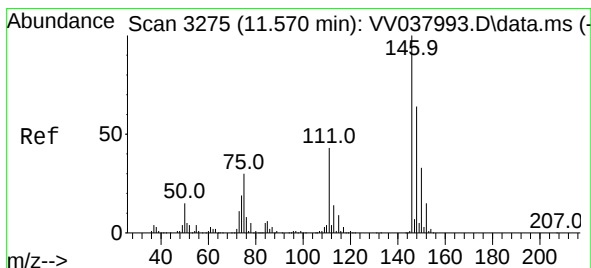
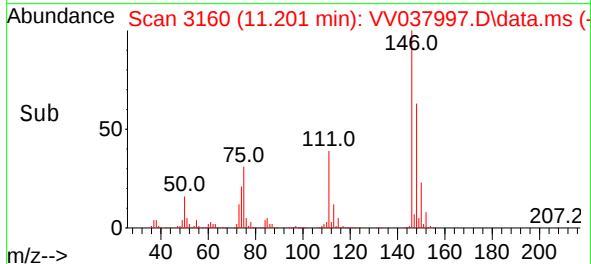
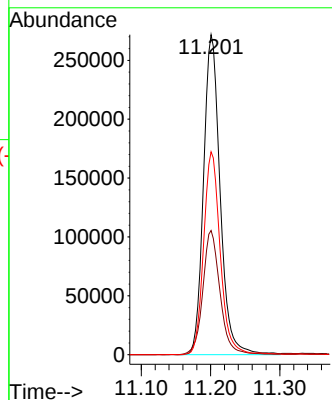
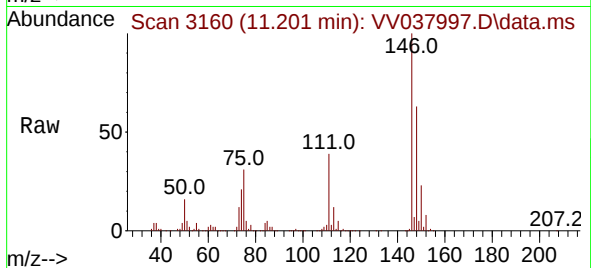
Tgt Ion:146 Resp: 453038

Ion Ratio Lower Upper

146 100

111 38.8 27.6 51.2

148 63.4 44.4 82.4



#67

1,2-Dichlorobenzene

Concen: 2.319 ug/L

RT: 11.570 min Scan# 3275

Delta R.T. 0.000 min

Lab File: VV037997.D

Acq: 11 Nov 2024 15:26

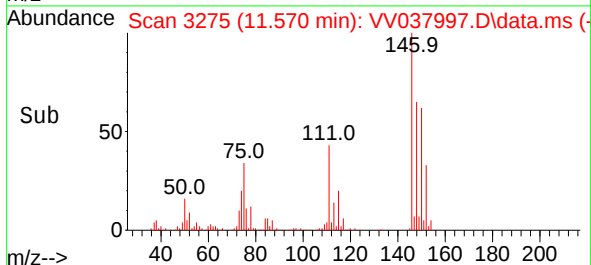
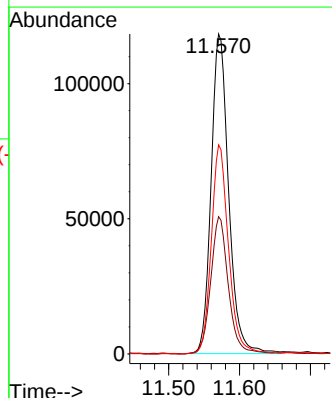
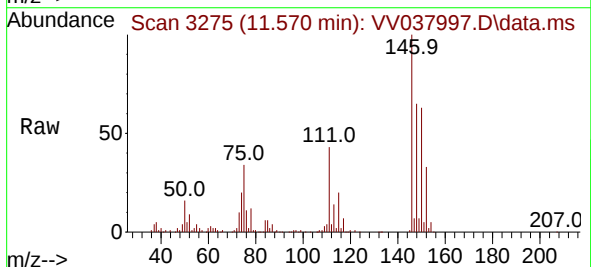
Tgt Ion:146 Resp: 202932

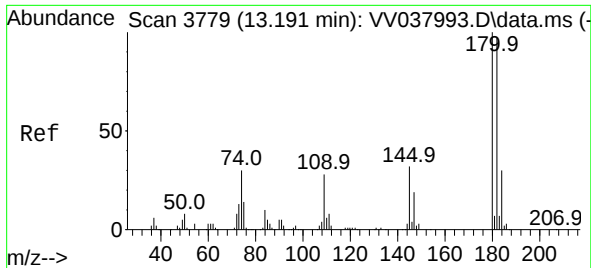
Ion Ratio Lower Upper

146 100

111 42.9 33.9 50.9

148 65.3 51.4 77.2





#70

1,2,4-trichlorobenzene

Concen: 1.968 ug/L

RT: 13.191 min Scan# 31

Delta R.T. 0.000 min

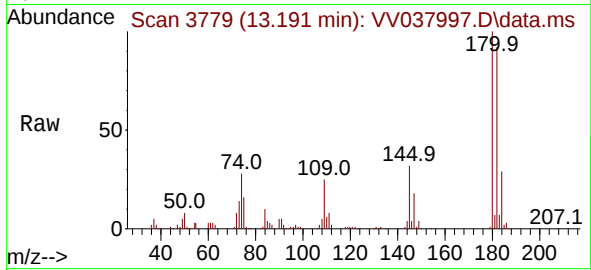
Lab File: VV037997.D

Acq: 11 Nov 2024 15:26

Instrument :

MSVOA_V

ClientSampleId :



Tgt Ion:180 Resp: 103208

Ion Ratio Lower Upper

180 100

182 94.4 74.8 112.2

145 30.9 25.4 38.0

