

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VW012425\
 Data File : VW038528.D
 Acq On : 24 Jan 2025 11:28
 Operator : SY/MD
 Sample : Q1086-21
 Misc : 25mL/MSVOA_V/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Jan 24 20:53:03 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR011725WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Jan 24 20:51:39 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.526	114	242514	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.776	117	250860	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.175	152	116388	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.278	65	78462	3.923	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	78.400%
7) Chloroethane-d5	1.532	69	66394	3.953	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	79.000%
11) 1,1-Dichloroethene-d2	2.056	65	34156	3.790	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	75.800%
20) 2-Butanone-d5	3.805	46	127061	30.207	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	60.420%
24) Chloroform-d	4.239	84	143589	3.831	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	76.600%
26) 1,2-Dichloroethane-d4	4.934	65	64907	3.779	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	75.600%
32) Benzene-d6	4.950	84	275333	3.985	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	79.600%
36) 1,2-Dichloropropane-d6	5.979	67	88639	4.221	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	84.400%
41) Toluene-d8	7.236	98	224243	3.613	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	72.200%
43) trans-1,3-Dichloroprop...	7.554	79	27743	3.611	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	72.200%
46) 2-Hexanone-d5	8.024	63	87577	28.896	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	57.800%
56) 1,1,2,2-Tetrachloroeth...	10.143	84	62127	3.731	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	74.600%
66) 1,2-Dichlorobenzene-d4	11.551	152	89679	4.552	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	91.000%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.281	62	653914	23.286	ug/L	98
8) Chloroethane	1.281	64	213443	12.686	ug/L #	44
12) 1,1-Dichloroethene	2.066	96	200190	9.955	ug/L #	82
16) Methylene chloride	2.442	84	84741	3.802	ug/L	98
18) trans-1,2-Dichloroethene	2.690	96	150433	7.276	ug/L	98
22) cis-1,2-Dichloroethene	3.805	96	61142	2.909	ug/L	94
27) 1,2-Dichloroethane	5.027	62	299569	13.848	ug/L	100
29) 1,1,1-Trichloroethane	4.500	97	498208	14.938	ug/L	97
31) Carbon tetrachloride	4.722	117	238535	8.092	ug/L	99
33) Benzene	4.998	78	446229	5.602	ug/L	100
34) Trichloroethene	5.821	95	180629	8.725	ug/L	96
37) 1,2-Dichloropropane	6.082	63	167346	8.135	ug/L	98
42) Toluene	7.304	91	1384736	16.679	ug/L	100
45) 1,1,2-Trichloroethane	7.760	97	68004	4.596	ug/L	98
47) Tetrachloroethene	7.895	164	149226	9.313	ug/L	97
49) Dibromochloromethane	7.895	129	138927	8.156	ug/L #	12
51) Chlorobenzene	8.802	112	472854	8.464	ug/L	99
52) Ethylbenzene	8.934	91	1259045	14.098	ug/L	99
53) m,p-Xylene	9.062	106	693069	20.473	ug/L	94

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

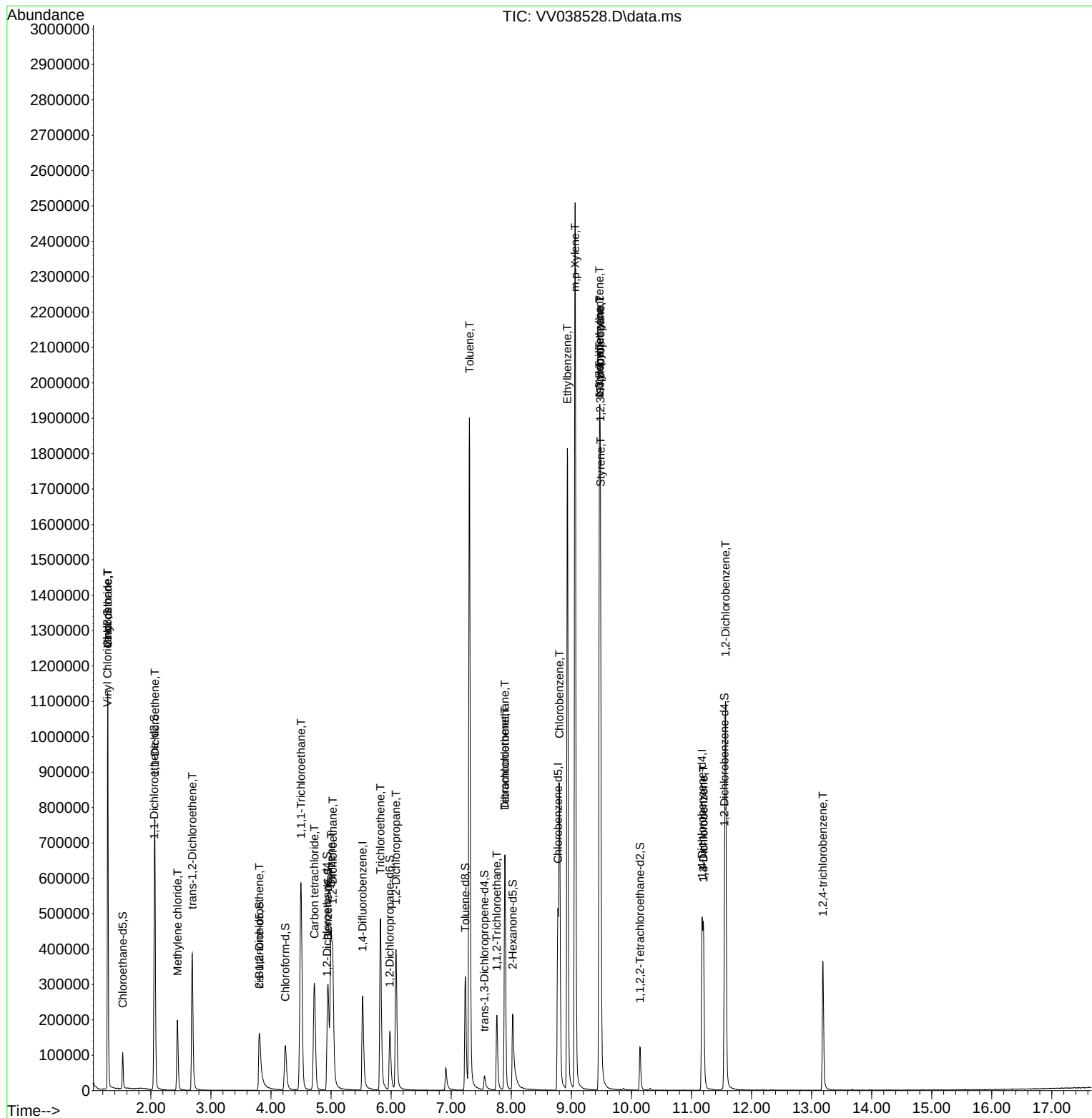
54) o-Xylene	9.468	106	395294	12.254	ug/L	99
55) Styrene	9.487	104	707978	12.587	ug/L	96
60) Isopropylbenzene	9.468	105	224650	2.869	ug/L #	1
61) 1,2,3-Trichloropropane	9.484	75	39556	3.537	ug/L #	1
62) 1,3,5-Trimethylbenzene	9.468	105	224650	3.663	ug/L #	28
64) 1,3-Dichlorobenzene	11.201	146	181488	4.672	ug/L	99
65) 1,4-Dichlorobenzene	11.201	146	181488	4.518	ug/L	99
67) 1,2-Dichlorobenzene	11.567	146	421716	11.591	ug/L	99
70) 1,2,4-trichlorobenzene	13.188	180	113399	5.710	ug/L	98

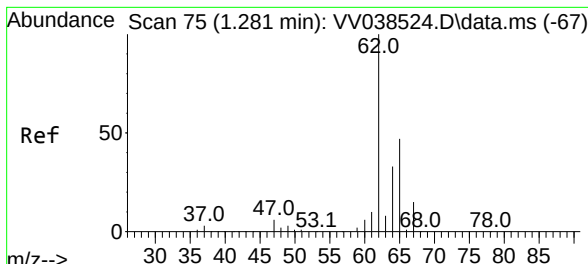
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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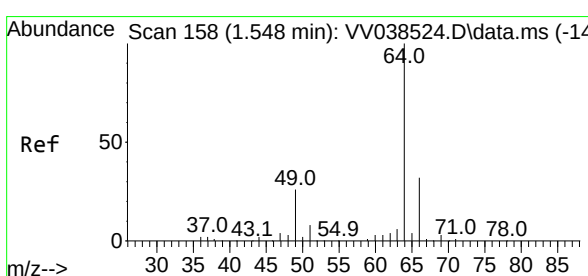
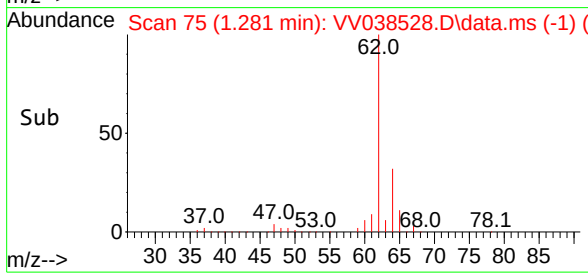
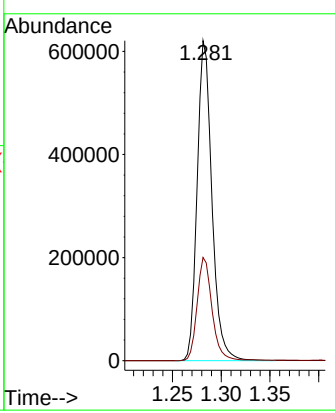
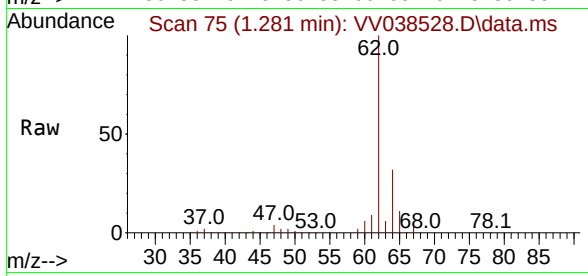


#5
 Vinyl chloride
 Concen: 23.286 ug/L
 RT: 1.281 min Scan# 75
 Delta R.T. -0.000 min
 Lab File: VV038528.D
 Acq: 24 Jan 2025 11:28

Instrument :
 MSVOA_V
 ClientSampleId :

Tgt Ion: 62 Resp: 653914

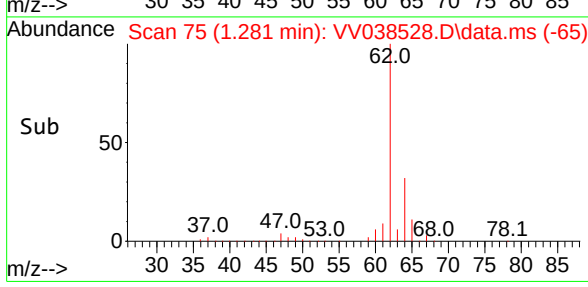
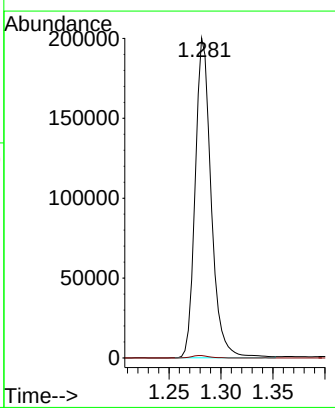
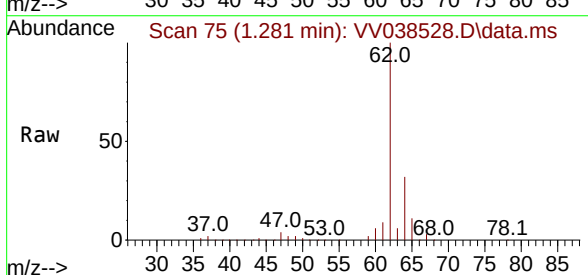
Ion	Ratio	Lower	Upper
62	100		
64	32.3	23.5	43.7

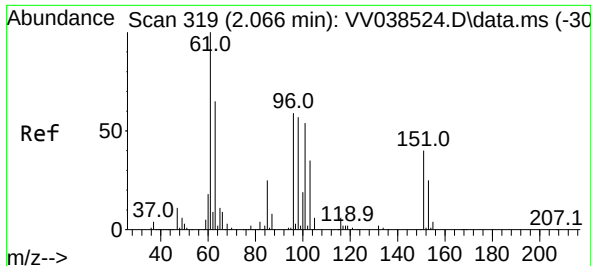


#8
 Chloroethane
 Concen: 12.686 ug/L
 RT: 1.281 min Scan# 75
 Delta R.T. -0.267 min
 Lab File: VV038528.D
 Acq: 24 Jan 2025 11:28

Tgt Ion: 64 Resp: 213443

Ion	Ratio	Lower	Upper
64	100		
66	0.7	22.7	42.1





#12

1,1-Dichloroethene

Concen: 9.955 ug/L

RT: 2.066 min Scan# 319

Delta R.T. -0.000 min

Lab File: VV038528.D

Acq: 24 Jan 2025 11:28

Instrument :

MSVOA_V

ClientSampleId :

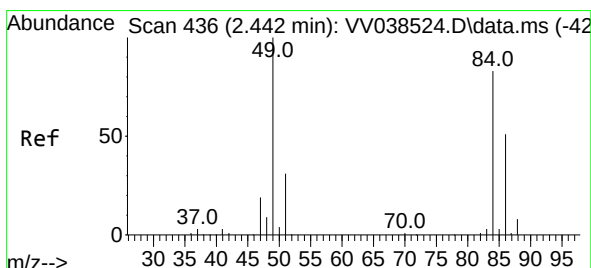
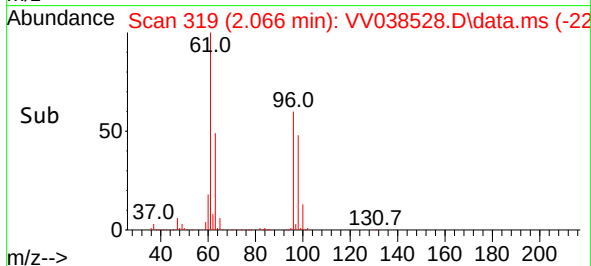
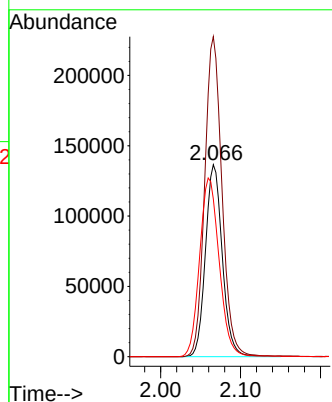
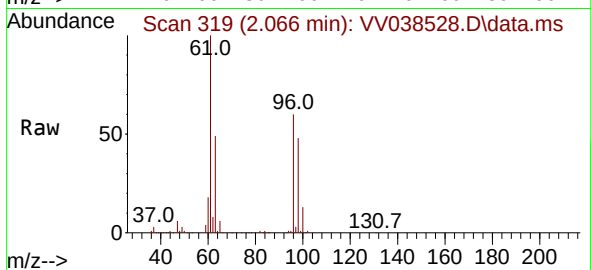
Tgt Ion: 96 Resp: 200190

Ion Ratio Lower Upper

96 100

61 166.6 122.2 227.0

63 82.2 86.2 160.0#



#16

Methylene chloride

Concen: 3.802 ug/L

RT: 2.442 min Scan# 436

Delta R.T. -0.000 min

Lab File: VV038528.D

Acq: 24 Jan 2025 11:28

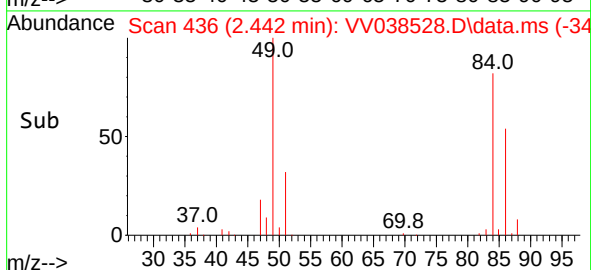
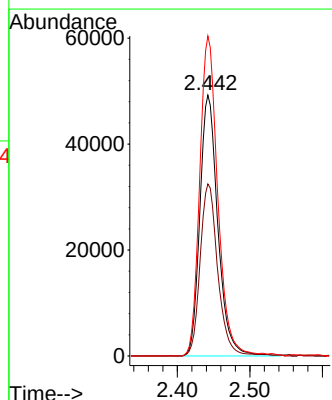
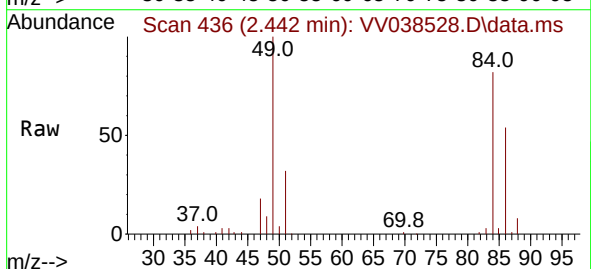
Tgt Ion: 84 Resp: 84741

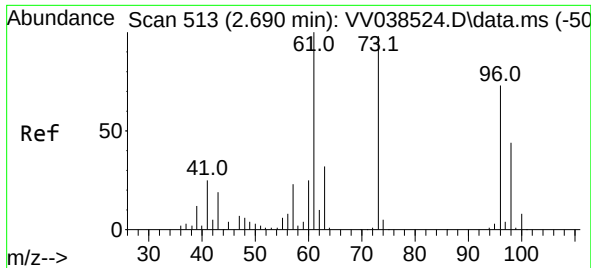
Ion Ratio Lower Upper

84 100

86 65.9 44.7 82.9

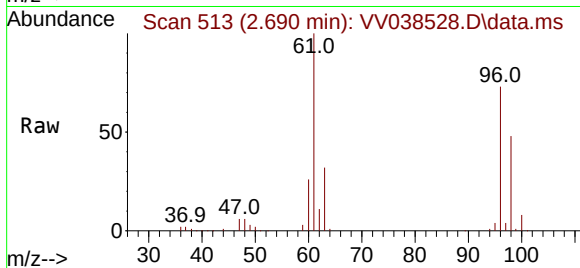
49 122.7 84.1 156.1



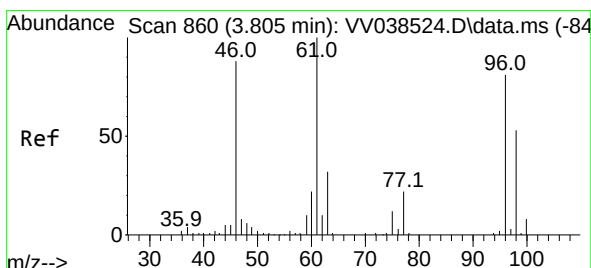
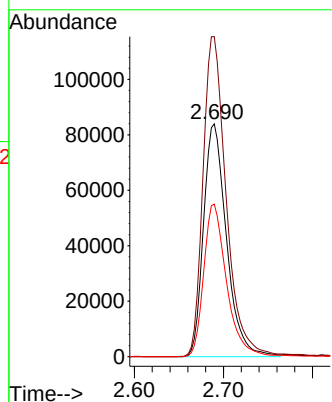
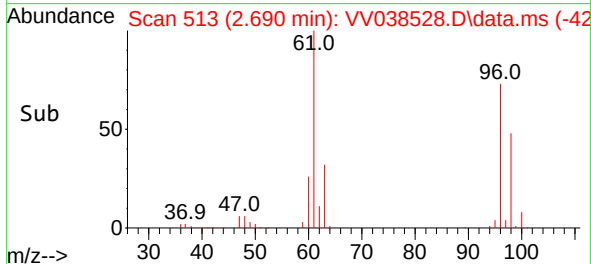


#18
trans-1,2-Dichloroethene
Concen: 7.276 ug/L
RT: 2.690 min Scan# 513
Delta R.T. -0.000 min
Lab File: VV038528.D
Acq: 24 Jan 2025 11:28

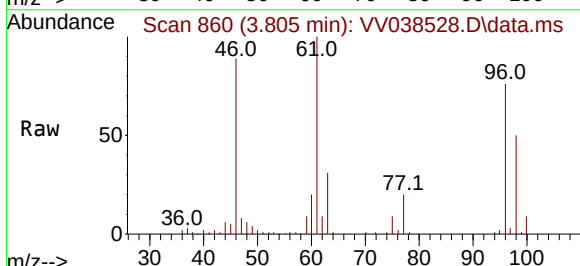
Instrument :
MSVOA_V
ClientSampleId :



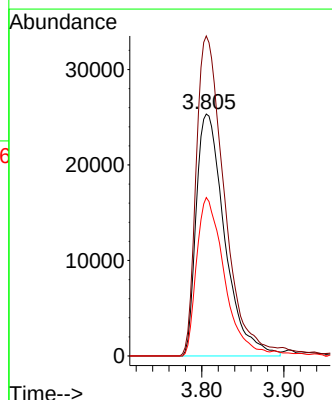
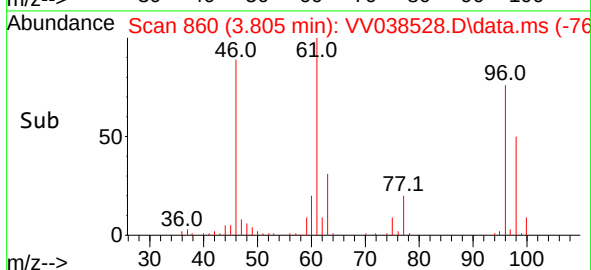
Tgt Ion: 96 Resp: 150433
Ion Ratio Lower Upper
96 100
61 137.5 94.8 176.2
98 65.5 44.2 82.2

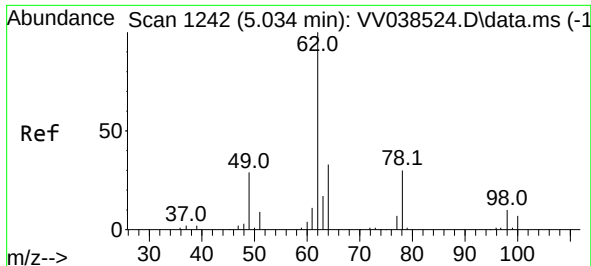


#22
cis-1,2-Dichloroethene
Concen: 2.909 ug/L
RT: 3.805 min Scan# 860
Delta R.T. -0.000 min
Lab File: VV038528.D
Acq: 24 Jan 2025 11:28



Tgt Ion: 96 Resp: 61142
Ion Ratio Lower Upper
96 100
61 132.3 86.5 160.7
98 65.5 43.8 81.3





#27

1,2-Dichloroethane

Concen: 13.848 ug/L

RT: 5.027 min Scan# 11

Delta R.T. -0.006 min

Lab File: VV038528.D

Acq: 24 Jan 2025 11:28

Instrument :

MSVOA_V

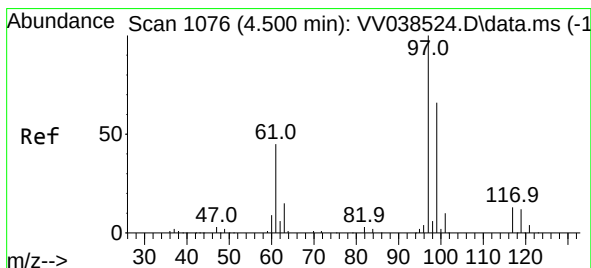
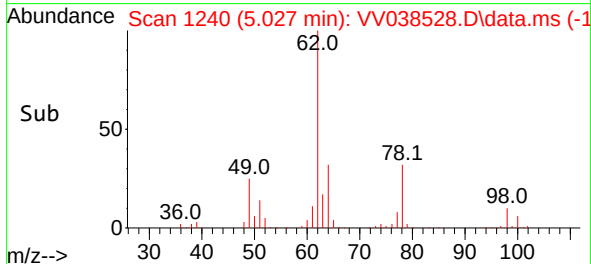
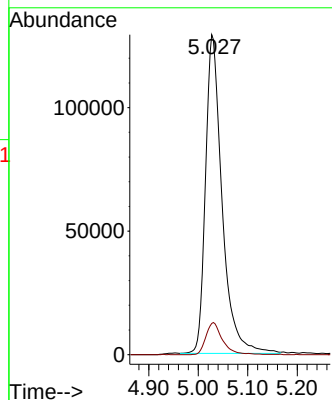
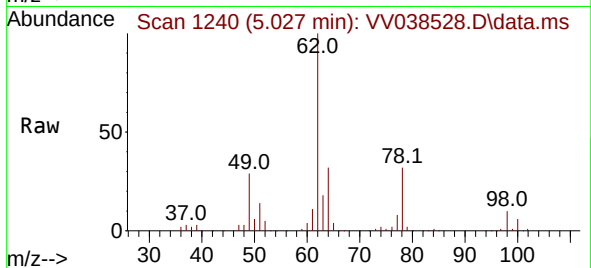
ClientSampleId :

Tgt Ion: 62 Resp: 299569

Ion Ratio Lower Upper

62 100

98 9.7 7.8 11.6



#29

1,1,1-Trichloroethane

Concen: 14.938 ug/L

RT: 4.500 min Scan# 1076

Delta R.T. -0.000 min

Lab File: VV038528.D

Acq: 24 Jan 2025 11:28

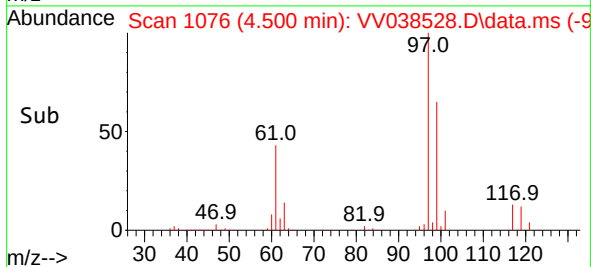
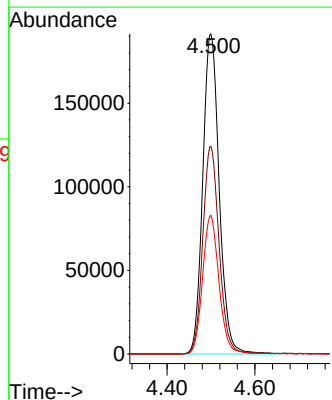
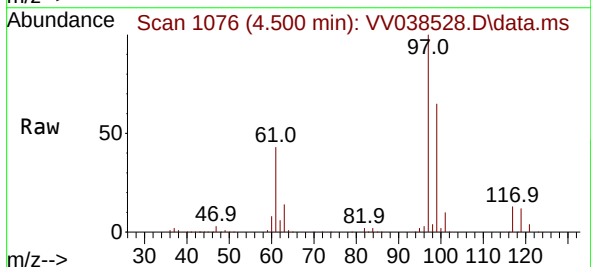
Tgt Ion: 97 Resp: 498208

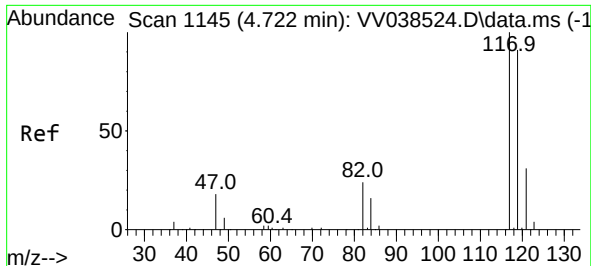
Ion Ratio Lower Upper

97 100

99 64.1 52.9 79.3

61 43.0 36.4 54.6

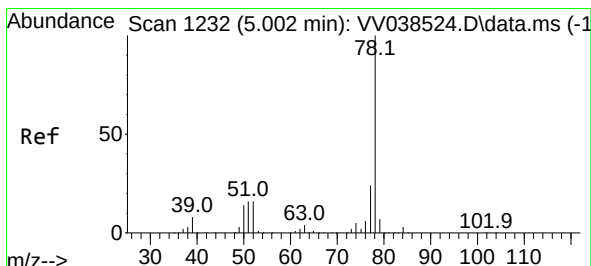
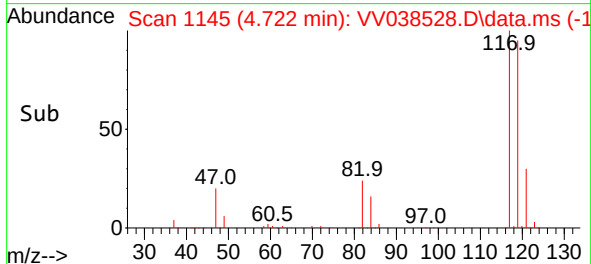
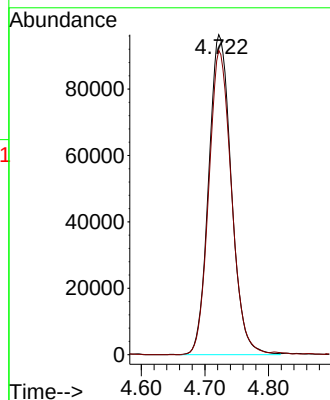
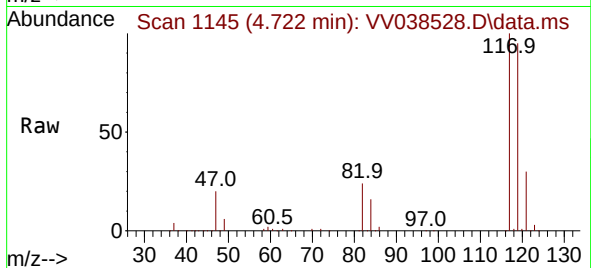




#31
Carbon tetrachloride
Concen: 8.092 ug/L
RT: 4.722 min Scan# 1145
Delta R.T. -0.000 min
Lab File: VV038528.D
Acq: 24 Jan 2025 11:28

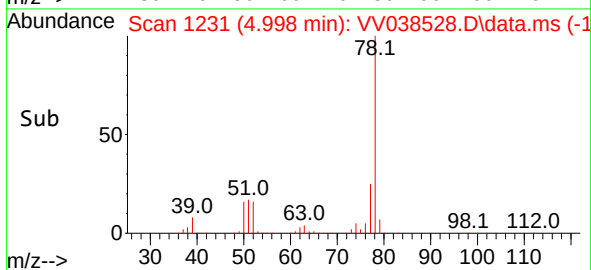
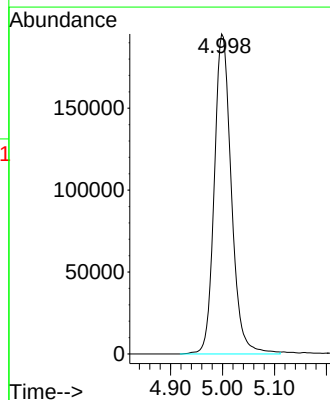
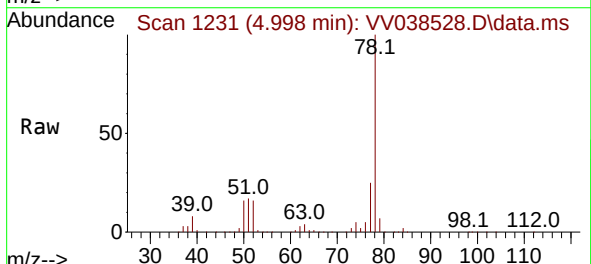
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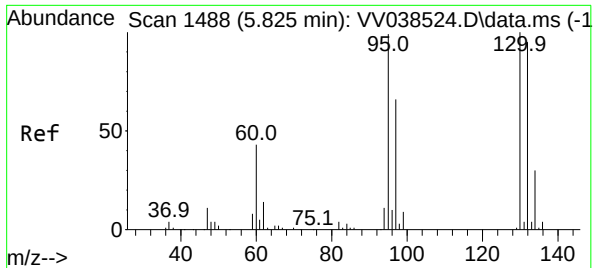
Tgt Ion:117 Resp: 238535
Ion Ratio Lower Upper
117 100
119 95.1 76.6 115.0



#33
Benzene
Concen: 5.602 ug/L
RT: 4.998 min Scan# 1231
Delta R.T. -0.003 min
Lab File: VV038528.D
Acq: 24 Jan 2025 11:28

Tgt Ion: 78 Resp: 446229

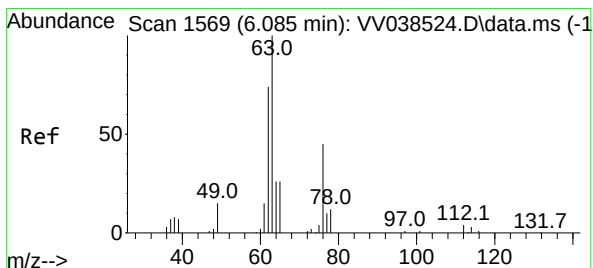
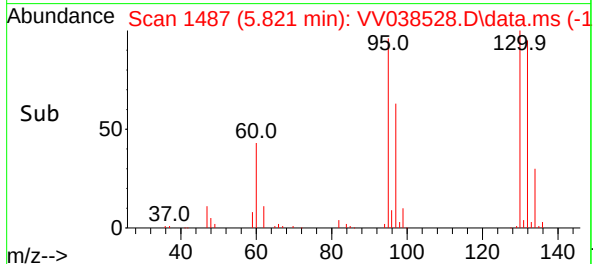
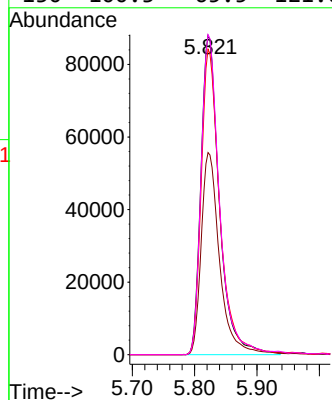
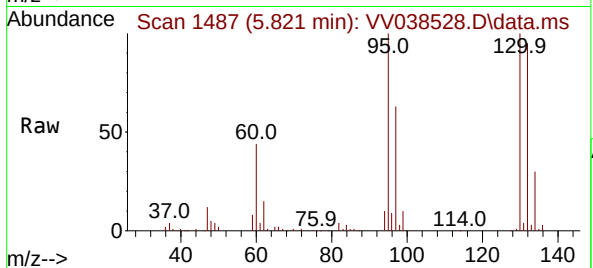




#34
Trichloroethene
Concen: 8.725 ug/L
RT: 5.821 min Scan# 1488
Delta R.T. -0.003 min
Lab File: VV038528.D
Acq: 24 Jan 2025 11:28

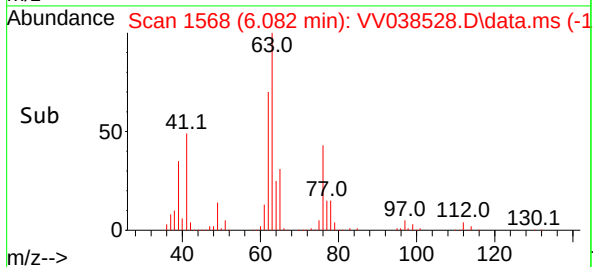
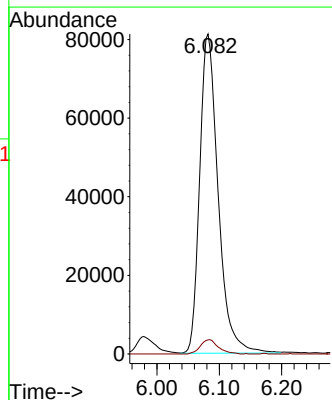
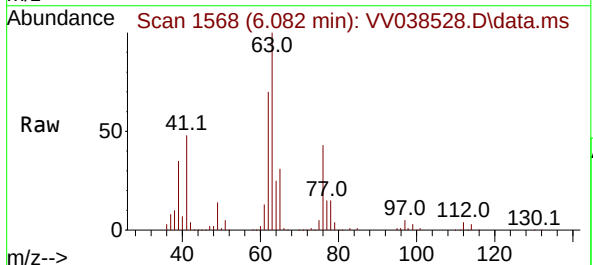
Instrument :
MSVOA_V
ClientSampleId :

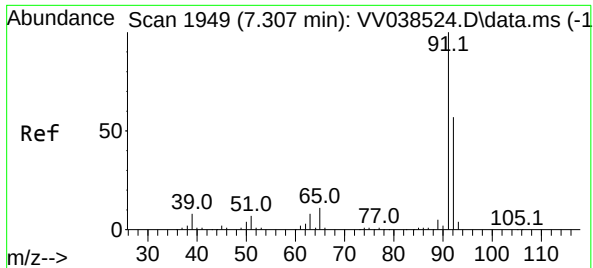
Tgt Ion: 95 Resp: 180629
Ion Ratio Lower Upper
95 100
97 63.3 43.4 80.6
132 95.7 65.5 121.6
130 100.3 65.5 121.6



#37
1,2-Dichloropropane
Concen: 8.135 ug/L
RT: 6.082 min Scan# 1568
Delta R.T. -0.003 min
Lab File: VV038528.D
Acq: 24 Jan 2025 11:28

Tgt Ion: 63 Resp: 167346
Ion Ratio Lower Upper
63 100
112 4.3 4.1 6.1

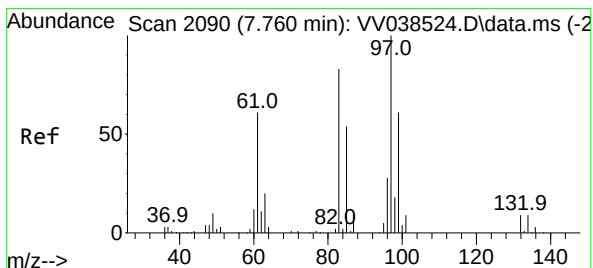
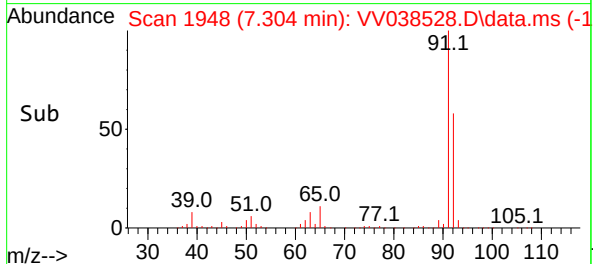
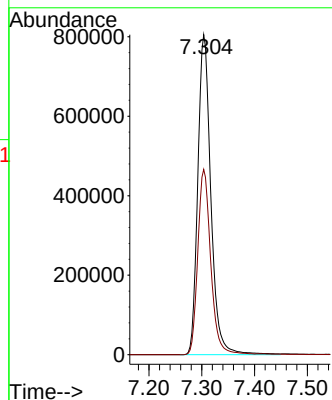
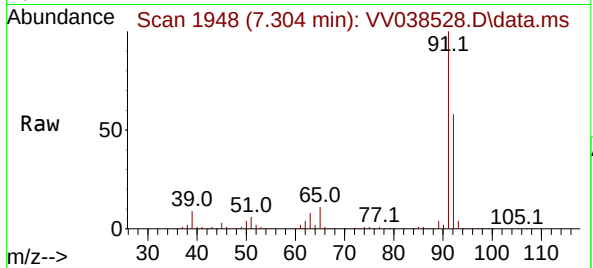




#42
Toluene
Concen: 16.679 ug/L
RT: 7.304 min Scan# 1949
Delta R.T. -0.003 min
Lab File: VV038528.D
Acq: 24 Jan 2025 11:28

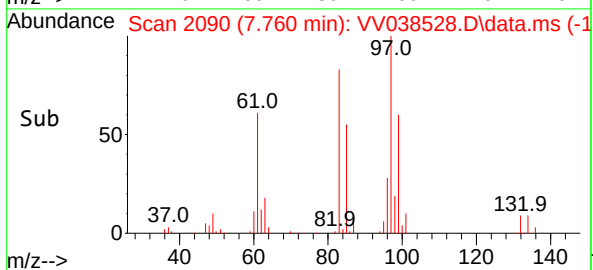
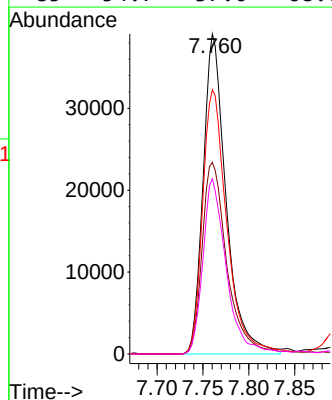
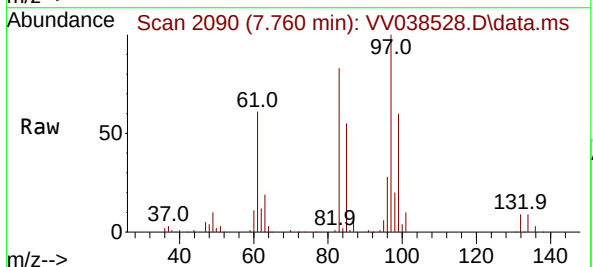
Instrument :
MSVOA_V
ClientSampleId :

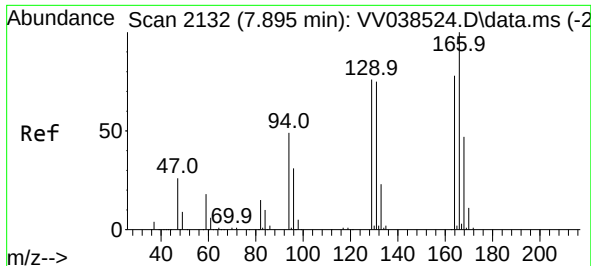
Tgt Ion: 91 Resp: 1384736
Ion Ratio Lower Upper
91 100
92 57.9 40.6 75.4



#45
1,1,2-Trichloroethane
Concen: 4.596 ug/L
RT: 7.760 min Scan# 2090
Delta R.T. -0.000 min
Lab File: VV038528.D
Acq: 24 Jan 2025 11:28

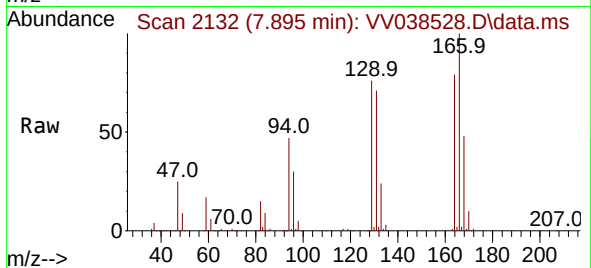
Tgt Ion: 97 Resp: 68004
Ion Ratio Lower Upper
97 100
99 59.9 42.3 78.5
83 82.6 59.4 110.4
85 54.7 37.0 68.6



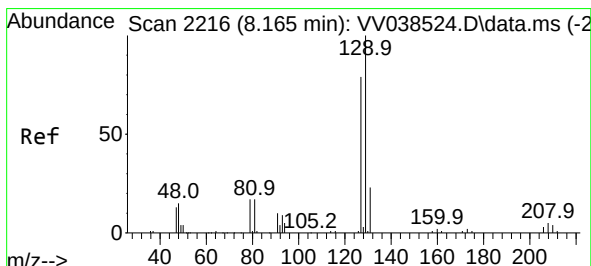
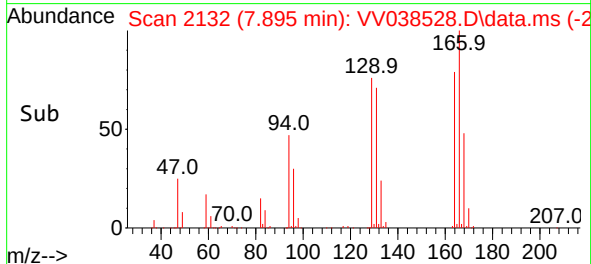
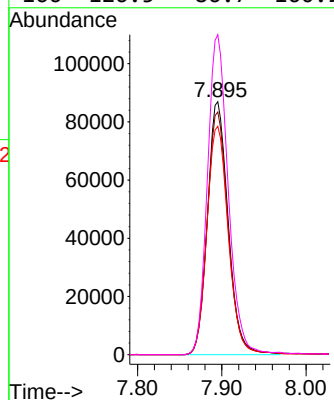


#47
Tetrachloroethene
Concen: 9.313 ug/L
RT: 7.895 min Scan# 2132
Delta R.T. -0.000 min
Lab File: VV038528.D
Acq: 24 Jan 2025 11:28

Instrument :
MSVOA_V
ClientSampleId :

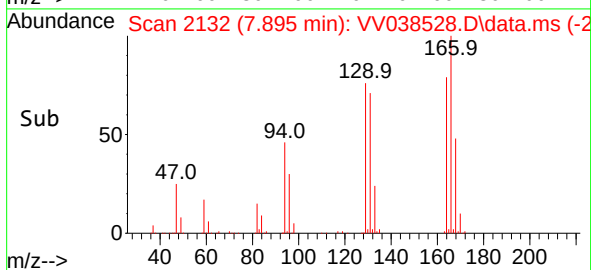
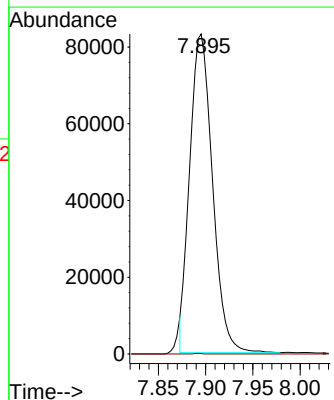
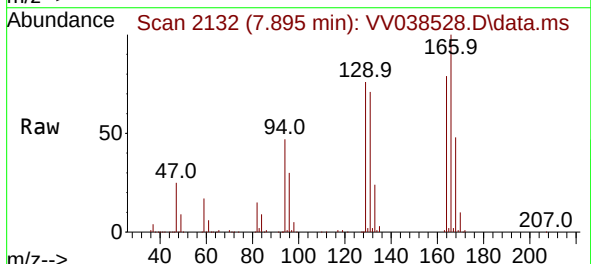


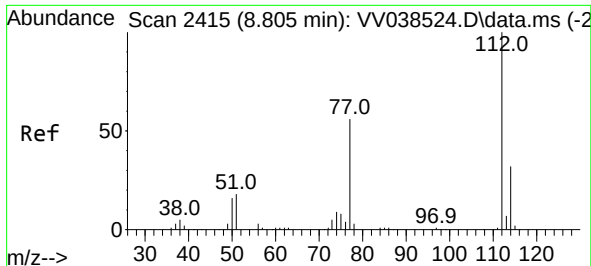
Tgt Ion:164 Resp: 149226
Ion Ratio Lower Upper
164 100
129 96.0 68.9 127.9
131 90.3 65.2 121.2
166 126.5 86.7 160.9



#49
Dibromochloromethane
Concen: 8.156 ug/L
RT: 7.895 min Scan# 2132
Delta R.T. -0.270 min
Lab File: VV038528.D
Acq: 24 Jan 2025 11:28

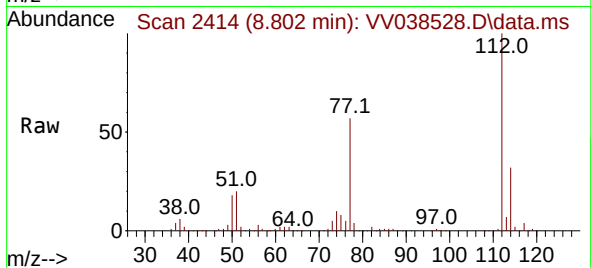
Tgt Ion:129 Resp: 138927
Ion Ratio Lower Upper
129 100
127 0.4 52.8 98.2#



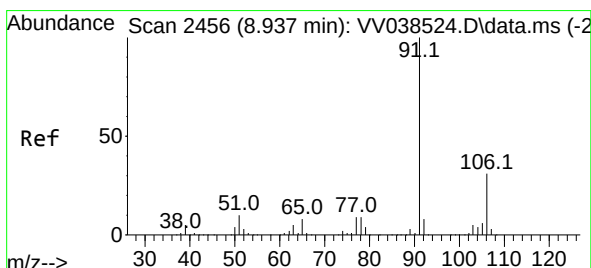
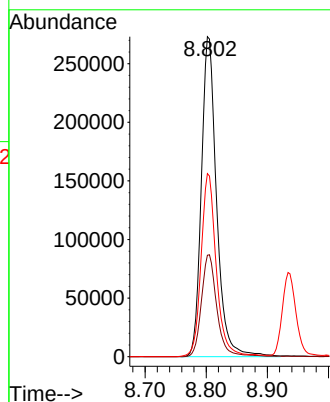
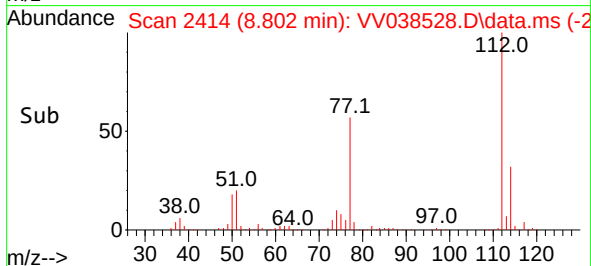


#51
Chlorobenzene
Concen: 8.464 ug/L
RT: 8.802 min Scan# 2415
Delta R.T. -0.003 min
Lab File: VV038528.D
Acq: 24 Jan 2025 11:28

Instrument :
MSVOA_V
ClientSampleId :

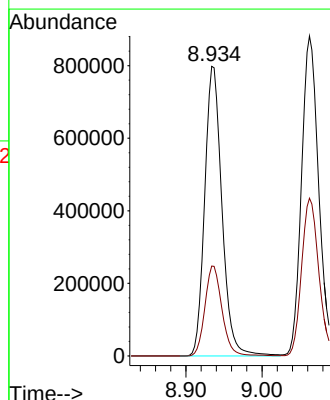
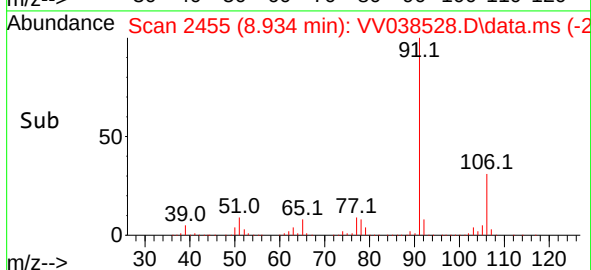
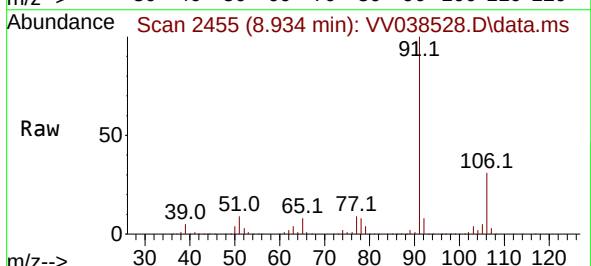


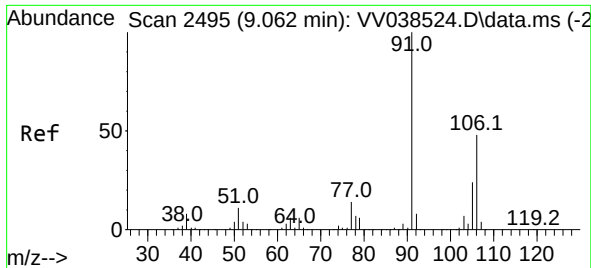
Tgt Ion:112 Resp: 472854
Ion Ratio Lower Upper
112 100
114 31.7 22.9 42.5
77 57.2 46.1 69.1



#52
Ethylbenzene
Concen: 14.098 ug/L
RT: 8.934 min Scan# 2455
Delta R.T. -0.003 min
Lab File: VV038528.D
Acq: 24 Jan 2025 11:28

Tgt Ion: 91 Resp: 1259045
Ion Ratio Lower Upper
91 100
106 31.0 22.0 40.8

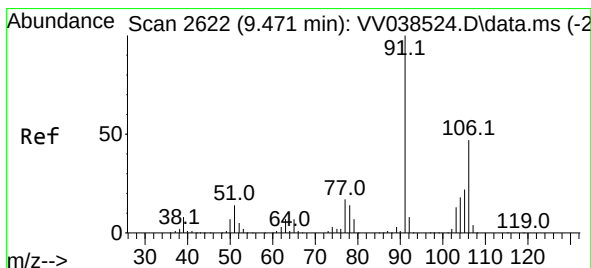
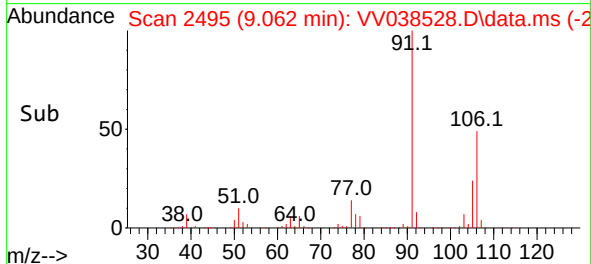
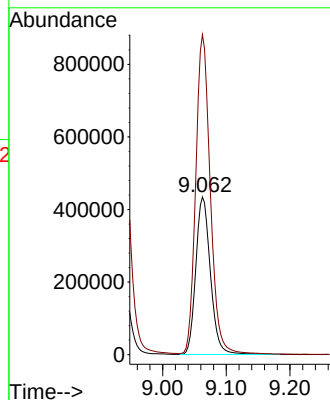
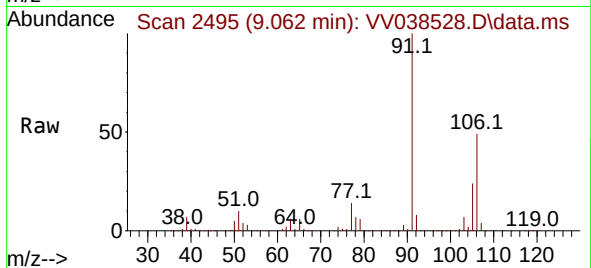




#53
m,p-Xylene
Concen: 20.473 ug/L
RT: 9.062 min Scan# 2495
Delta R.T. -0.000 min
Lab File: VV038528.D
Acq: 24 Jan 2025 11:28

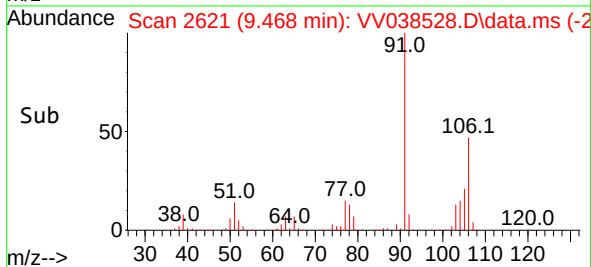
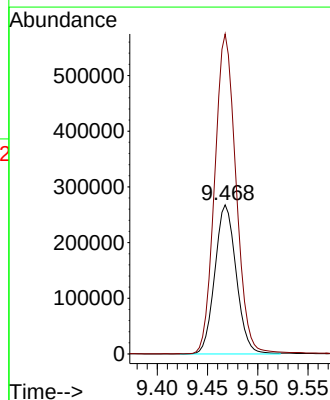
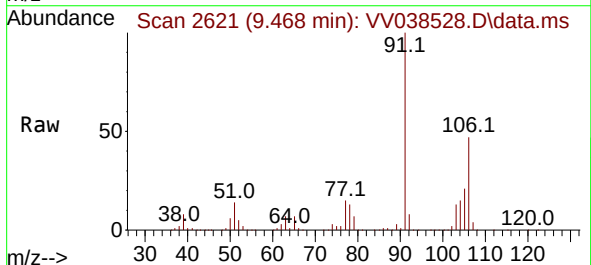
Instrument :
MSVOA_V
ClientSampleId :

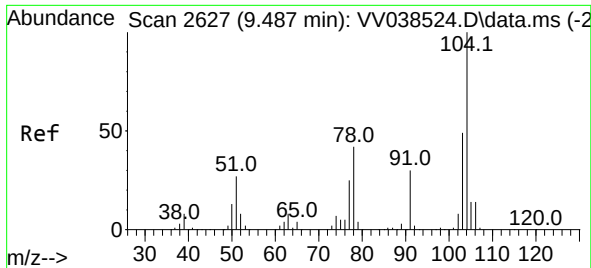
Tgt Ion:106 Resp: 693069
Ion Ratio Lower Upper
106 100
91 202.8 148.2 275.2



#54
o-Xylene
Concen: 12.254 ug/L
RT: 9.468 min Scan# 2621
Delta R.T. -0.003 min
Lab File: VV038528.D
Acq: 24 Jan 2025 11:28

Tgt Ion:106 Resp: 395294
Ion Ratio Lower Upper
106 100
91 214.5 151.4 281.2

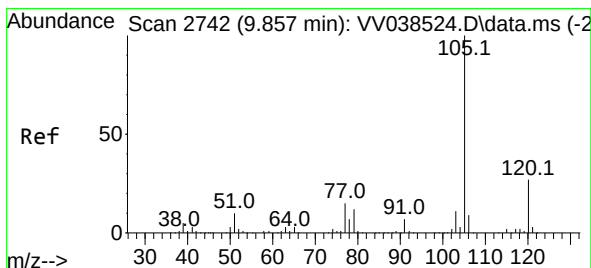
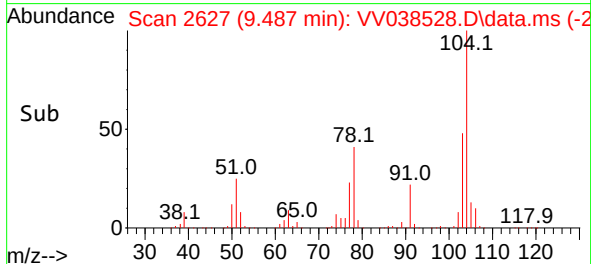
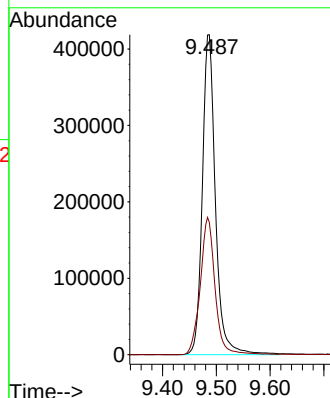
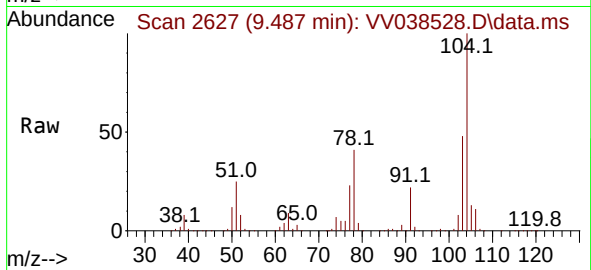




#55
Styrene
Concen: 12.587 ug/L
RT: 9.487 min Scan# 2621
Delta R.T. -0.000 min
Lab File: VV038528.D
Acq: 24 Jan 2025 11:28

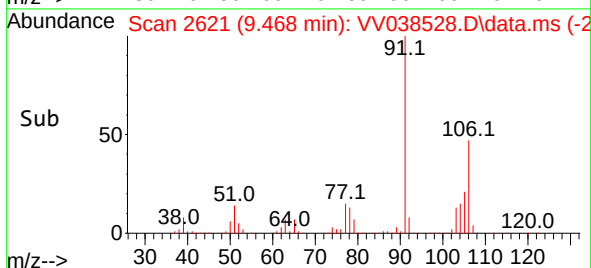
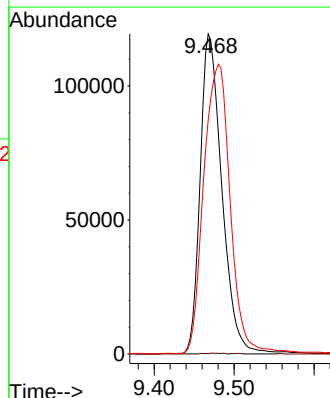
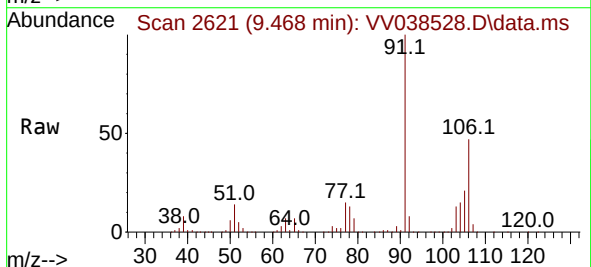
Instrument :
MSVOA_V
ClientSampleId :

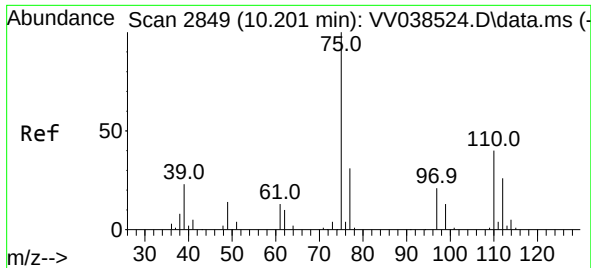
Tgt Ion:104 Resp: 707978
Ion Ratio Lower Upper
104 100
78 41.3 30.8 57.2



#60
Isopropylbenzene
Concen: 2.869 ug/L
RT: 9.468 min Scan# 2621
Delta R.T. -0.389 min
Lab File: VV038528.D
Acq: 24 Jan 2025 11:28

Tgt Ion:105 Resp: 224650
Ion Ratio Lower Upper
105 100
120 0.2 21.4 32.2#
77 110.6 12.7 19.1#

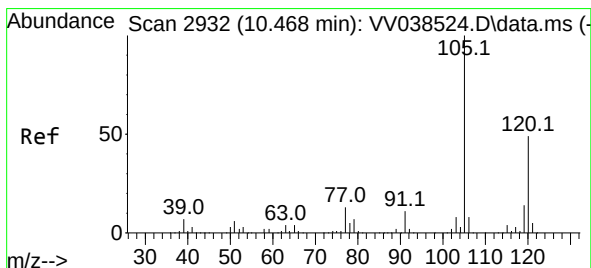
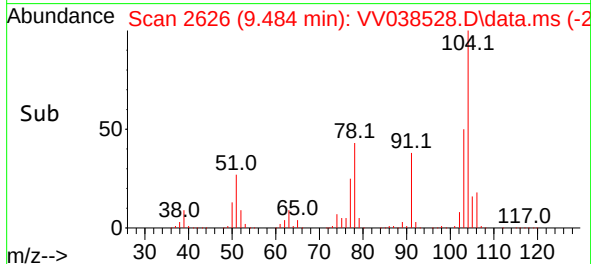
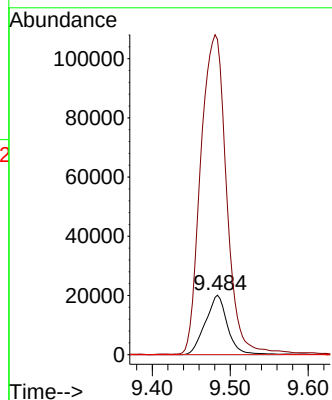
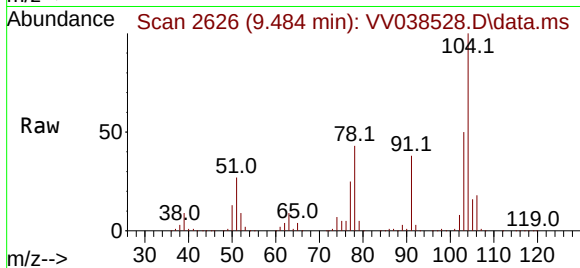




#61
 1,2,3-Trichloropropane
 Concen: 3.537 ug/L
 RT: 9.484 min Scan# 2626
 Delta R.T. -0.717 min
 Lab File: VV038528.D
 Acq: 24 Jan 2025 11:28

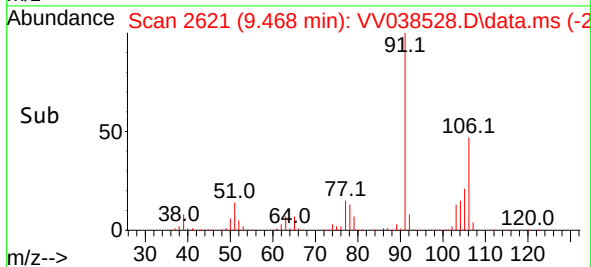
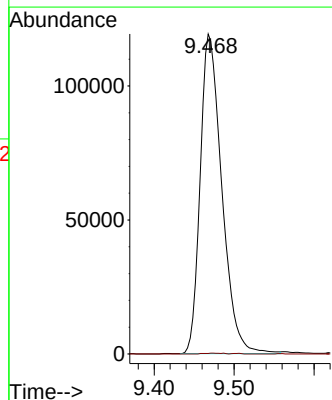
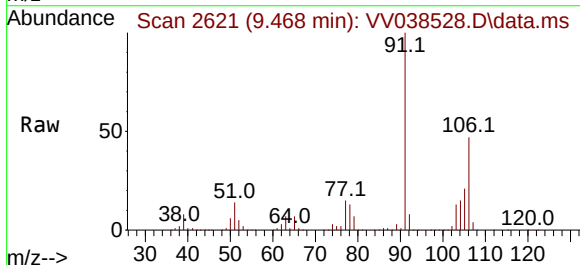
Instrument :
 MSVOA_V
 ClientSampleId :

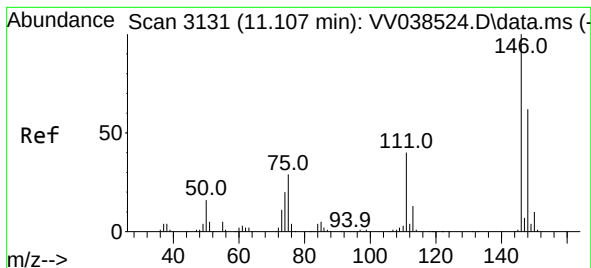
Tgt Ion: 75 Resp: 39556
 Ion Ratio Lower Upper
 75 100
 77 628.1 25.4 38.0#
 110 0.0 32.6 48.8#



#62
 1,3,5-Trimethylbenzene
 Concen: 3.663 ug/L
 RT: 9.468 min Scan# 2621
 Delta R.T. -1.000 min
 Lab File: VV038528.D
 Acq: 24 Jan 2025 11:28

Tgt Ion: 105 Resp: 224650
 Ion Ratio Lower Upper
 105 100
 120 0.2 39.4 59.0#





#64

1,3-Dichlorobenzene

Concen: 4.672 ug/L

RT: 11.201 min Scan# 3160

Delta R.T. 0.093 min

Lab File: VV038528.D

Acq: 24 Jan 2025 11:28

Instrument :

MSVOA_V

ClientSampleId :

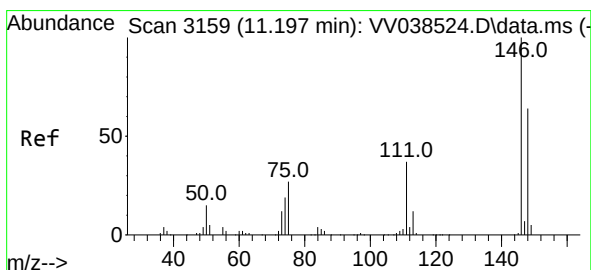
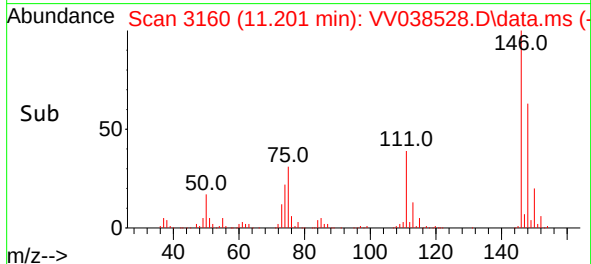
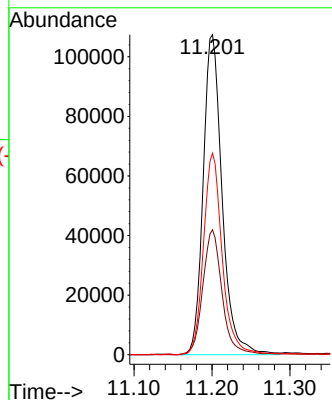
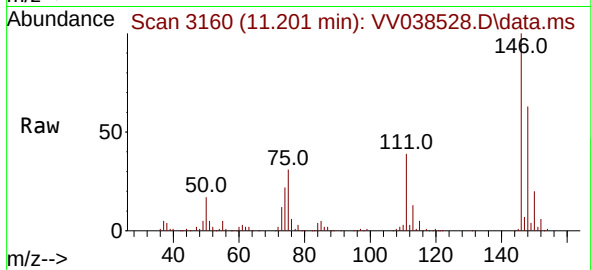
Tgt Ion:146 Resp: 181488

Ion Ratio Lower Upper

146 100

111 39.0 27.9 51.9

148 63.0 44.7 83.1



#65

1,4-Dichlorobenzene

Concen: 4.518 ug/L

RT: 11.201 min Scan# 3160

Delta R.T. 0.003 min

Lab File: VV038528.D

Acq: 24 Jan 2025 11:28

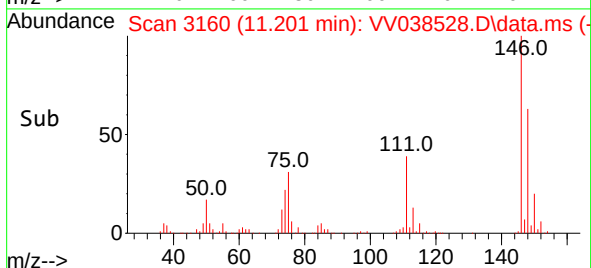
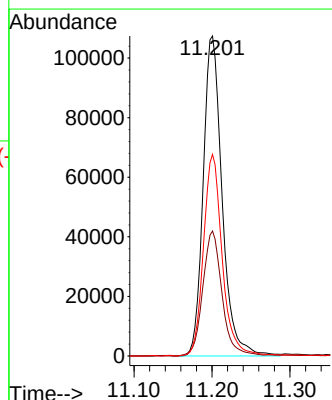
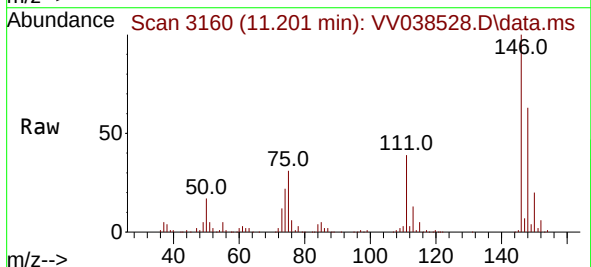
Tgt Ion:146 Resp: 181488

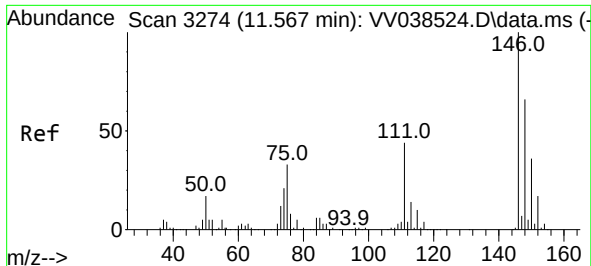
Ion Ratio Lower Upper

146 100

111 39.0 28.1 52.3

148 63.0 44.7 83.1





#67

1,2-Dichlorobenzene

Concen: 11.591 ug/L

RT: 11.567 min Scan# 31

Delta R.T. -0.000 min

Lab File: VV038528.D

Acq: 24 Jan 2025 11:28

Instrument :

MSVOA_V

ClientSampleId :

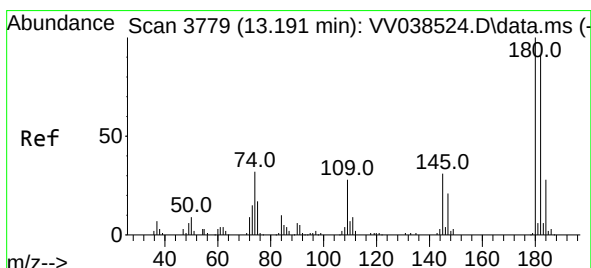
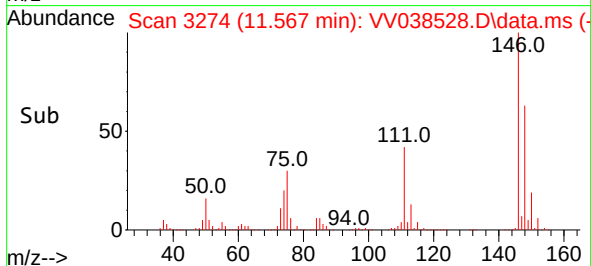
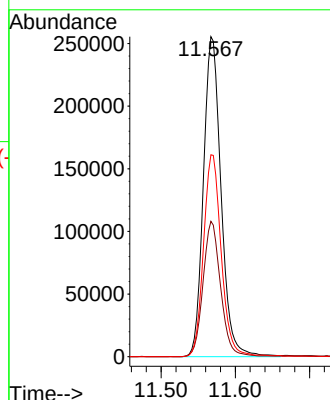
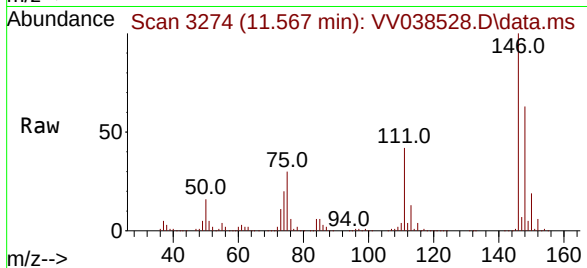
Tgt Ion:146 Resp: 421716

Ion Ratio Lower Upper

146 100

111 42.3 33.4 50.0

148 63.1 49.9 74.9



#70

1,2,4-trichlorobenzene

Concen: 5.710 ug/L

RT: 13.188 min Scan# 3778

Delta R.T. -0.003 min

Lab File: VV038528.D

Acq: 24 Jan 2025 11:28

Tgt Ion:180 Resp: 113399

Ion Ratio Lower Upper

180 100

182 94.7 77.5 116.3

145 31.3 26.2 39.4

