

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV012425\
 Data File : VV038528.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 :
 C0AD4

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
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
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
54) o-Xylene	9.468	106	395294	12.254	ug/L	99
55) Styrene	9.487	104	707978	12.587	ug/L	96

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Quant Title : TRACE VOA SFAM1.0
QLast Update : Fri Jan 24 20:51:39 2025
Response via : Initial Calibration

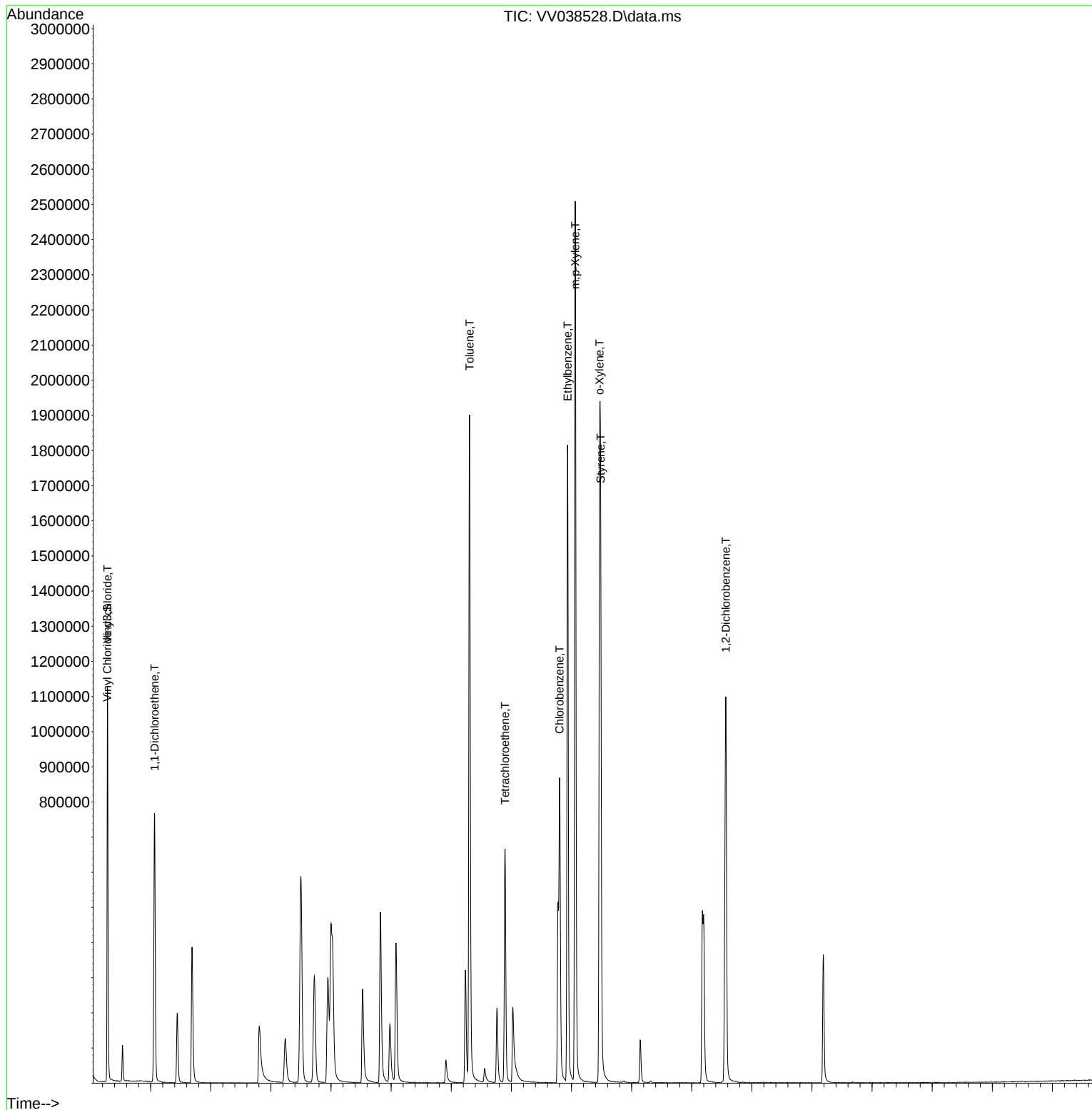
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) 1,4-Dichlorobenzene	11.201	146	181488	4.518	ug/L	99
67) 1,2-Dichlorobenzene	11.567	146	421716	11.591	ug/L	99
70) 1,2,4-trichlorobenzene	13.188	180	113399	5.710	ug/L	98

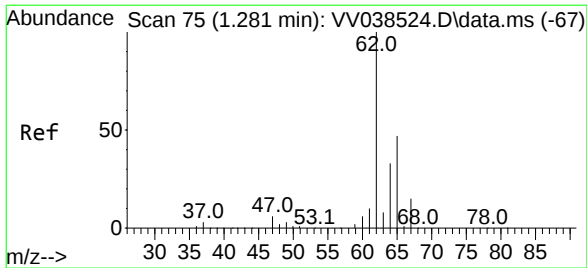
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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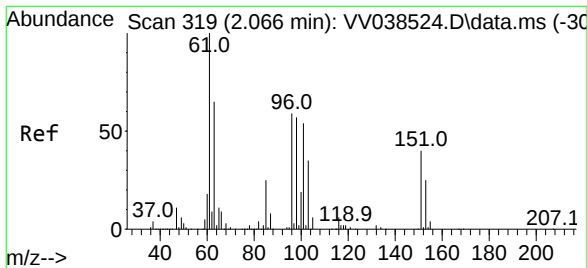
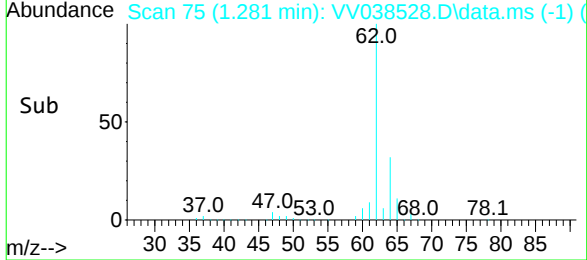
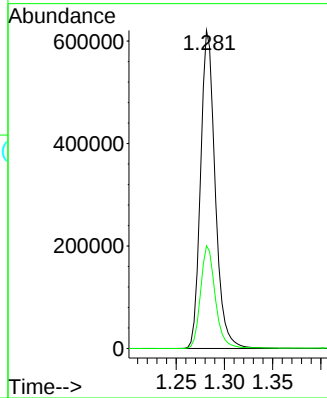
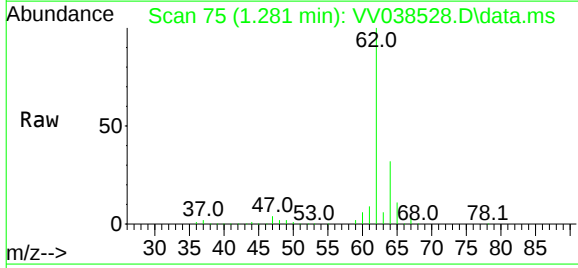




#5
 Vinyl chloride
 Concen: 23.286 ug/L
 RT: 1.281 min Scan# 75
 Delta R.T. -0.000 min
 Lab File: VV038528.D
 Acq: 24 Jan 2025 11:28

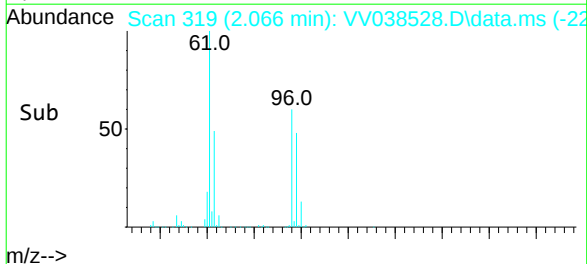
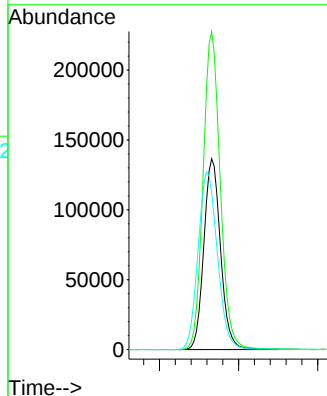
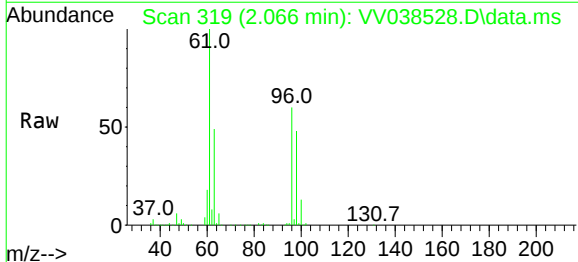
Instrument :
 MSVOA_V
 ClientSampleId :
 C0AD4

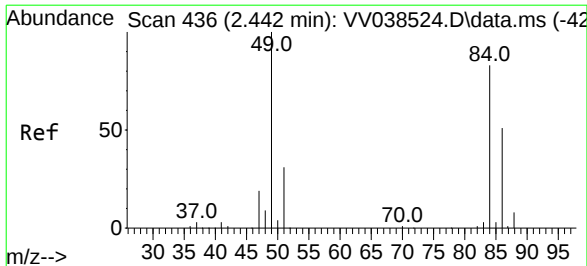
Tgt Ion: 62 Resp: 653914
 Ion Ratio Lower Upper
 62 100
 64 32.3 23.5 43.7



#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

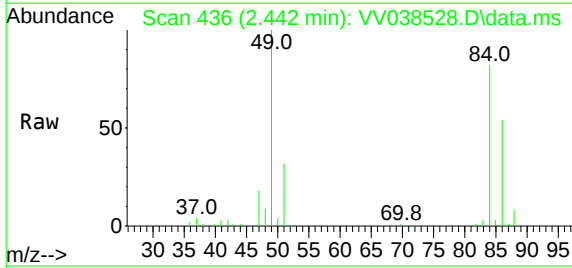
Tgt Ion: 96 Resp: 200190
 Ion Ratio Lower Upper
 96 100
 61 166.6 122.2 227.0
 63 82.2 86.2 160.0#



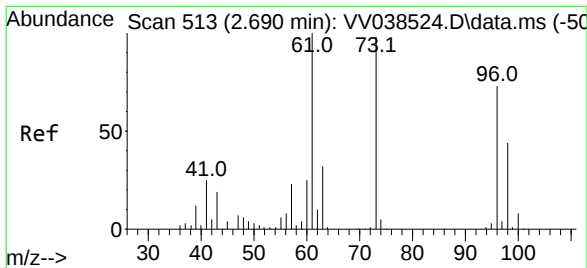
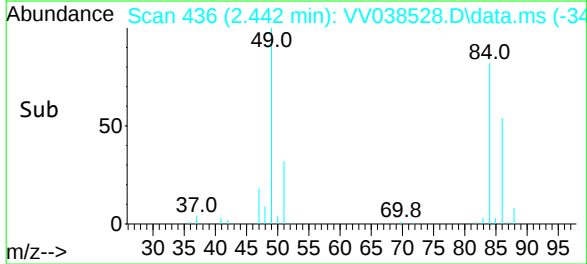
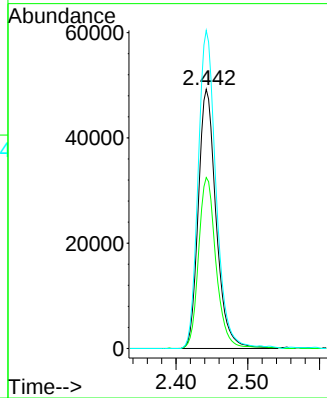


#16
Methylene chloride
Concen: 3.802 ug/L
RT: 2.442 min Scan# 436
Delta R.T. -0.000 min
Lab File: VV038528.D
Acq: 24 Jan 2025 11:28

Instrument :
MSVOA_V
ClientSampleId :
C0AD4

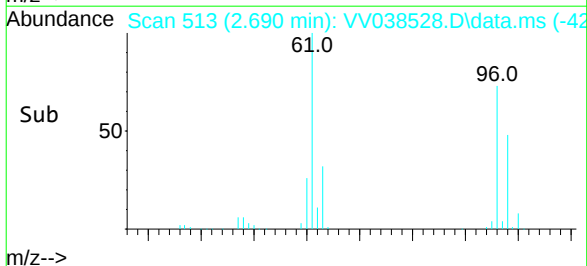
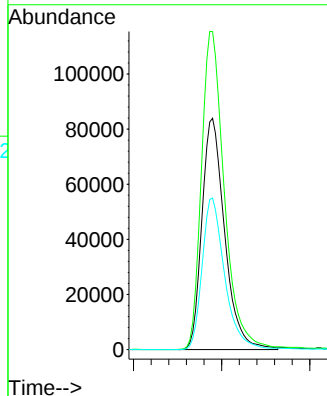
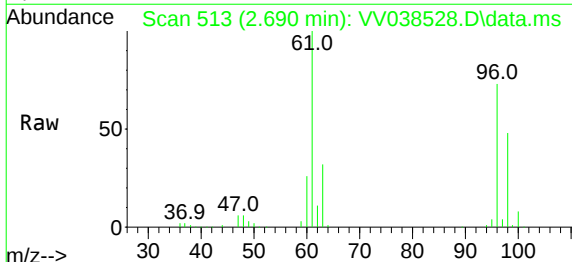


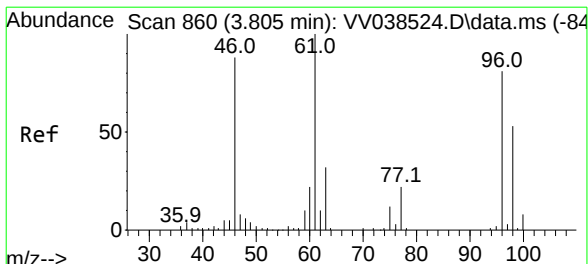
Tgt Ion	Ratio	Lower	Upper
84	100		
86	65.9	44.7	82.9
49	122.7	84.1	156.1



#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

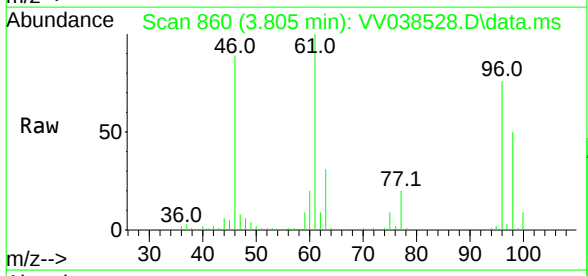
Tgt Ion	Ratio	Lower	Upper
96	100		
61	137.5	94.8	176.2
98	65.5	44.2	82.2



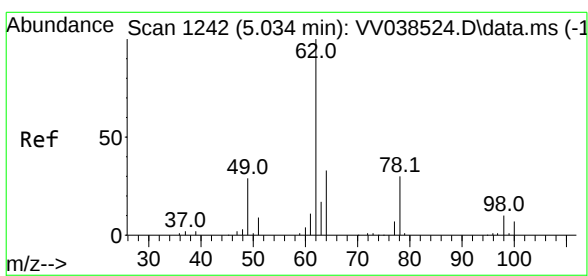
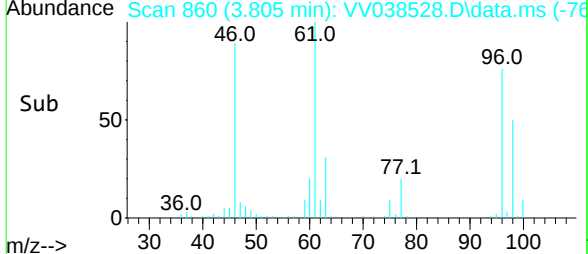
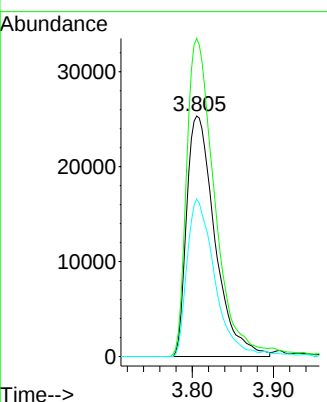


#22
 cis-1,2-Dichloroethene
 Concen: 2.909 ug/L
 RT: 3.805 min Scan# 86
 Delta R.T. -0.000 min
 Lab File: VV038528.D
 Acq: 24 Jan 2025 11:28

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 C0AD4

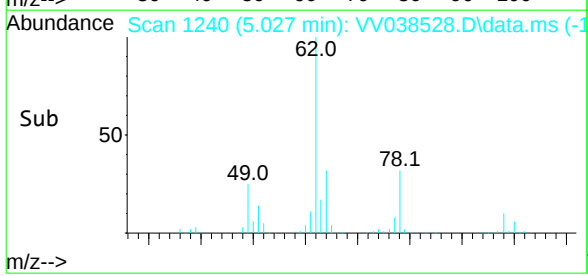
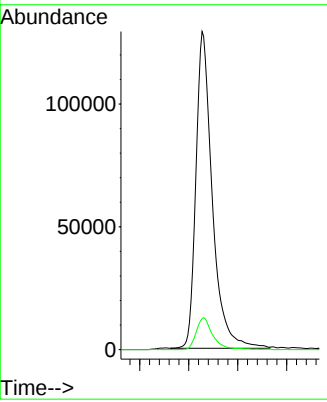
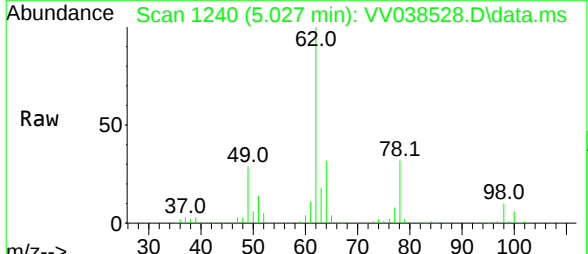


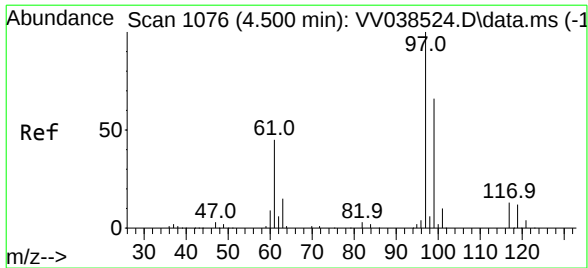
Tgt Ion:	96	Resp:	61142
Ion	Ratio	Lower	Upper
96	100		
61	132.3	86.5	160.7
98	65.5	43.8	81.3



#27
 1,2-Dichloroethane
 Concen: 13.848 ug/L
 RT: 5.027 min Scan# 1240
 Delta R.T. -0.006 min
 Lab File: VV038528.D
 Acq: 24 Jan 2025 11:28

Tgt Ion:	62	Resp:	299569
Ion	Ratio	Lower	Upper
62	100		
98	9.7	7.8	11.6

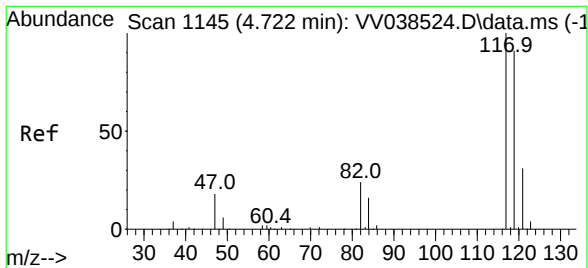
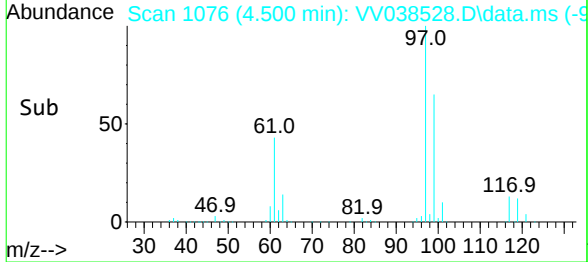
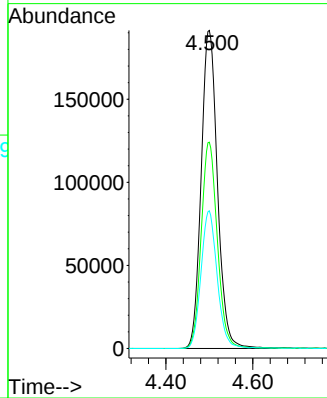
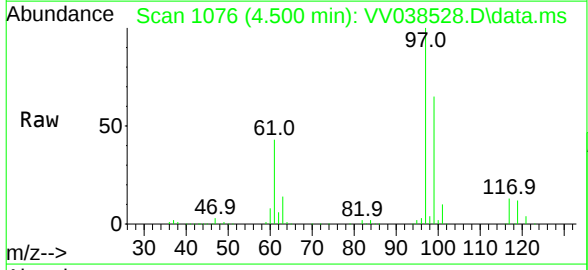




#29
 1,1,1-Trichloroethane
 Concen: 14.938 ug/L
 RT: 4.500 min Scan# 1076
 Delta R.T. -0.000 min
 Lab File: VV038528.D
 Acq: 24 Jan 2025 11:28

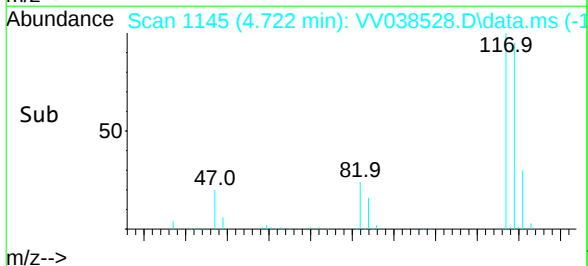
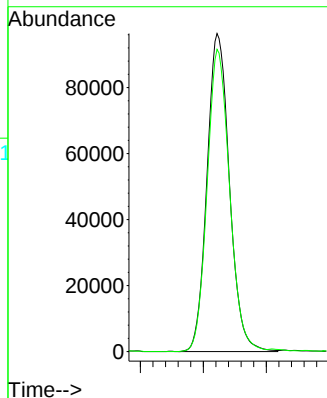
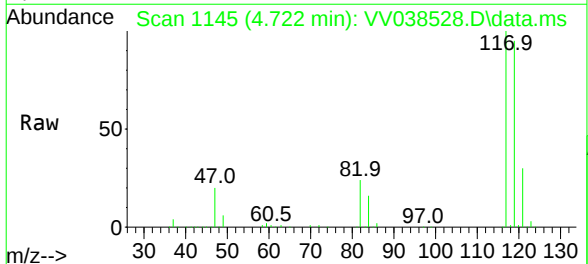
Instrument :
 MSVOA_V
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 C0AD4

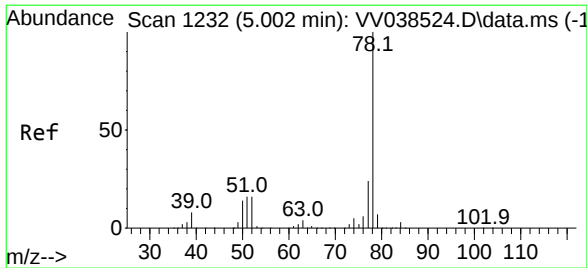
Tgt Ion:	97	Resp:	498208
Ion	Ratio	Lower	Upper
97	100		
99	64.1	52.9	79.3
61	43.0	36.4	54.6



#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

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# 12

Delta R.T. -0.003 min

Lab File: VV038528.D

Acq: 24 Jan 2025 11:28

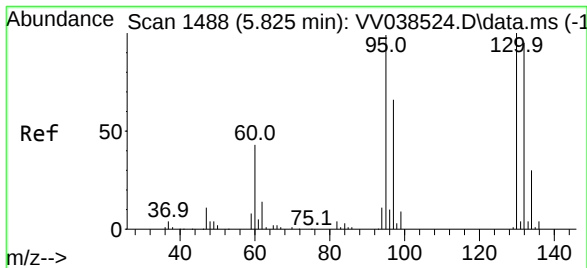
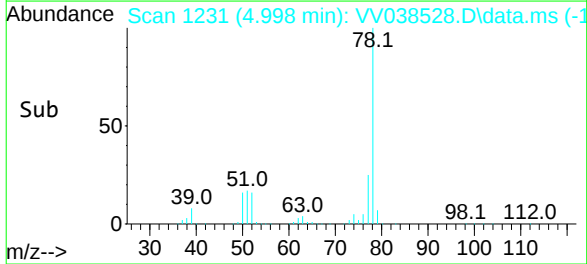
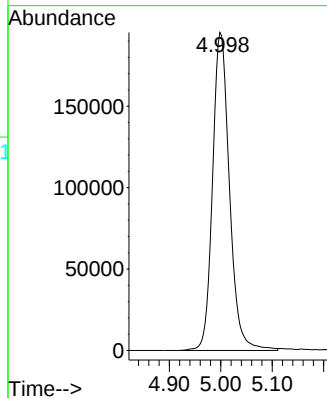
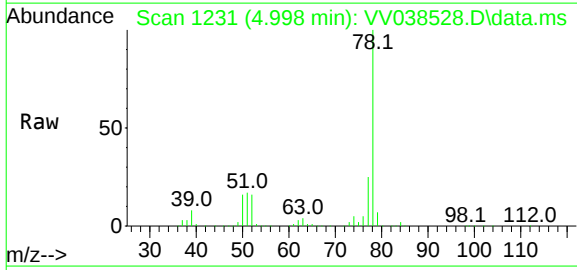
Instrument :

MSVOA_V

ClientSampleId :

C0AD4

Tgt Ion: 78 Resp: 446229



#34

Trichloroethene

Concen: 8.725 ug/L

RT: 5.821 min Scan# 1487

Delta R.T. -0.003 min

Lab File: VV038528.D

Acq: 24 Jan 2025 11:28

Tgt Ion: 95 Resp: 180629

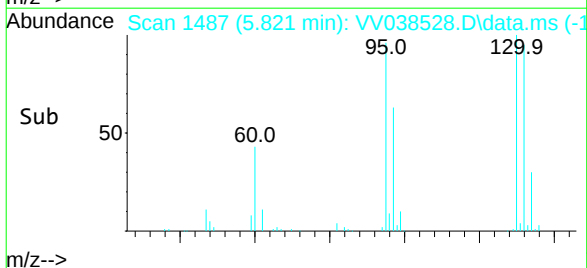
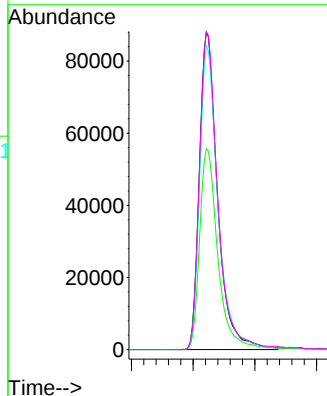
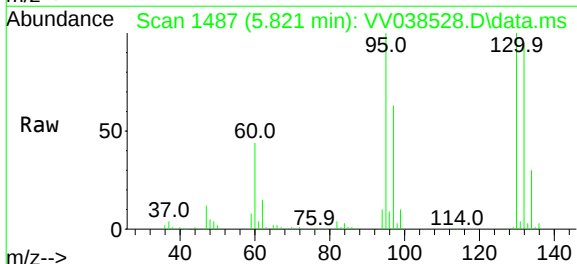
Ion Ratio Lower Upper

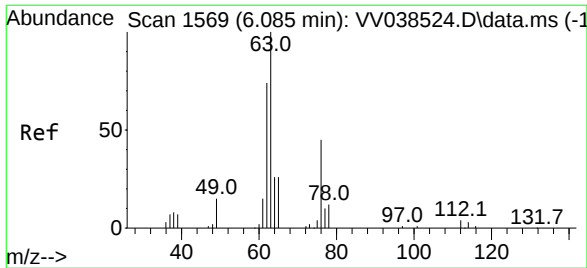
95 100

97 63.3 43.4 80.6

132 95.7 65.5 121.6

130 100.3 65.5 121.6

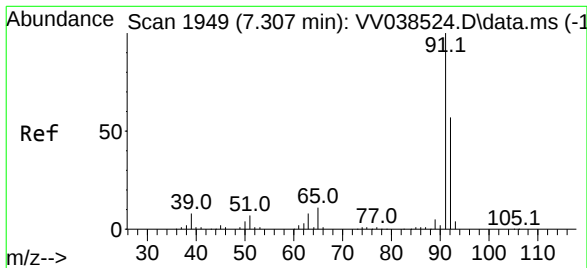
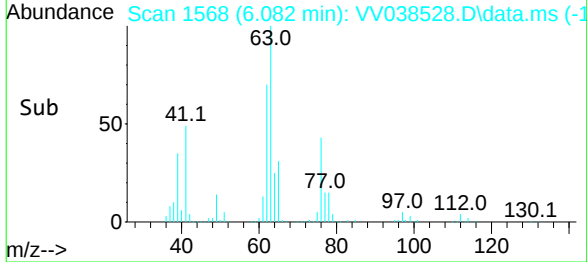
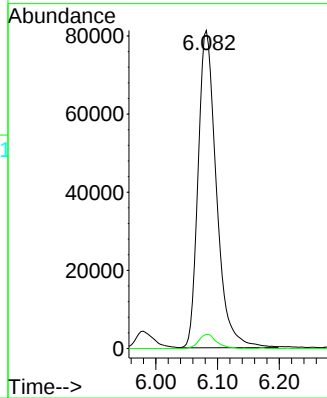
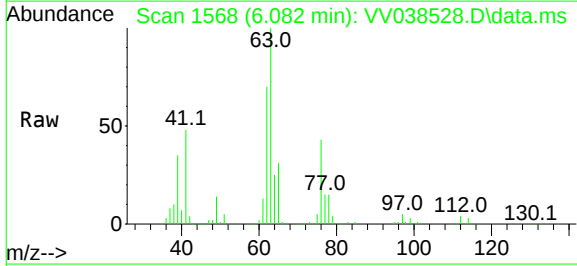




#37
1,2-Dichloropropane
Concen: 8.135 ug/L
RT: 6.082 min Scan# 1569
Delta R.T. -0.003 min
Lab File: VV038528.D
Acq: 24 Jan 2025 11:28

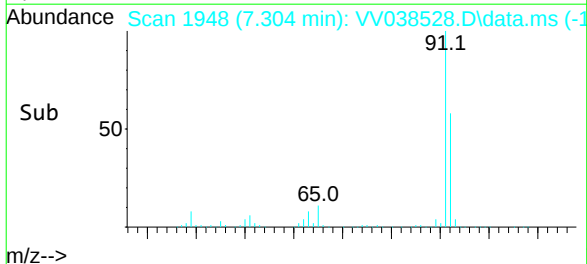
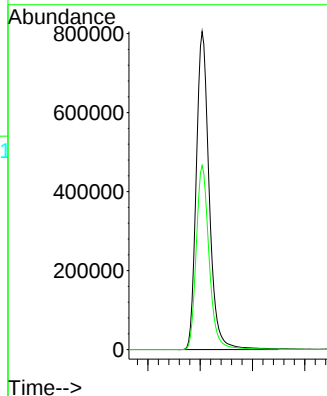
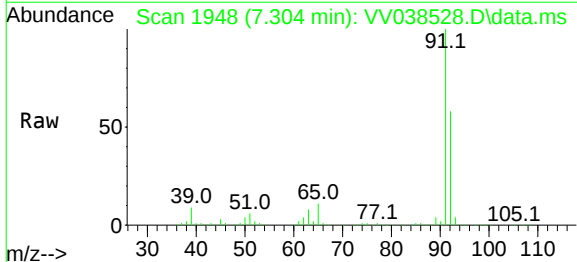
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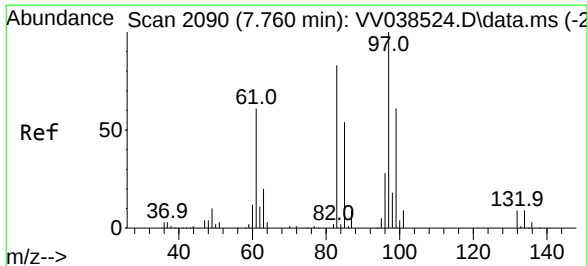
Tgt Ion: 63 Resp: 167346
Ion Ratio Lower Upper
63 100
112 4.3 4.1 6.1



#42
Toluene
Concen: 16.679 ug/L
RT: 7.304 min Scan# 1948
Delta R.T. -0.003 min
Lab File: VV038528.D
Acq: 24 Jan 2025 11:28

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

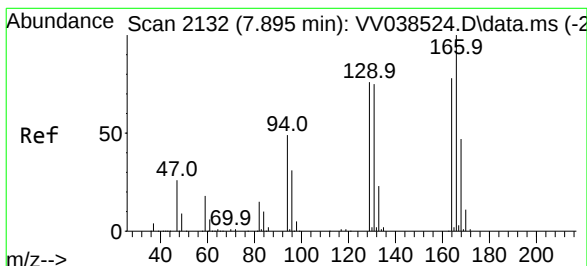
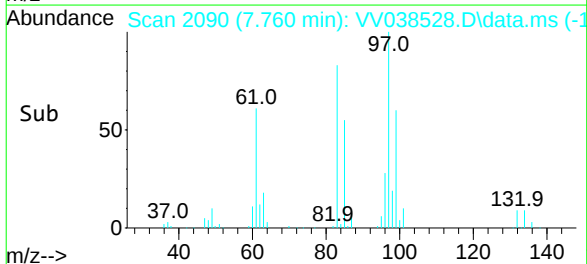
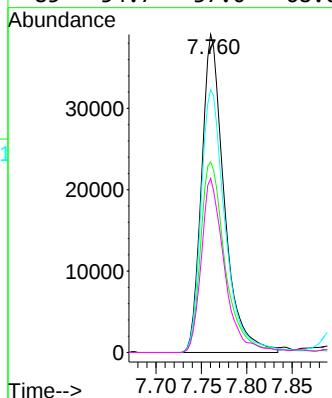
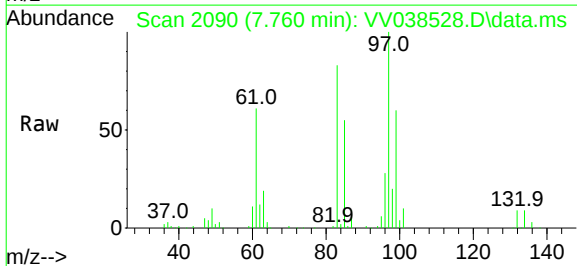




#45
1,1,2-Trichloroethane
Concen: 4.596 ug/L
RT: 7.760 min Scan# 2090
Delta R.T. -0.000 min
Lab File: VV038528.D
Acq: 24 Jan 2025 11:28

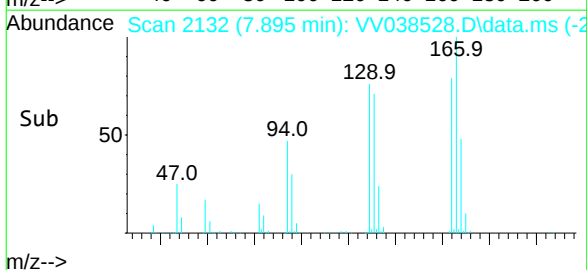
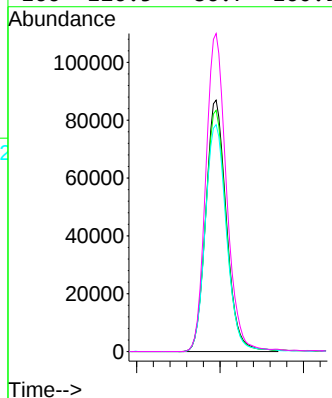
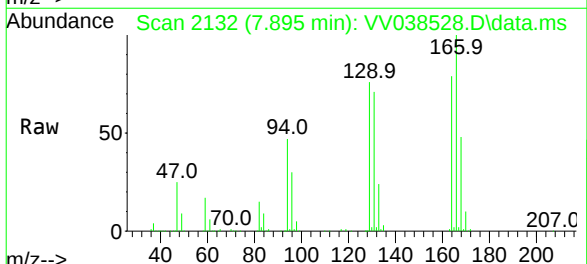
Instrument :
MSVOA_V
ClientSampleId :
C0AD4

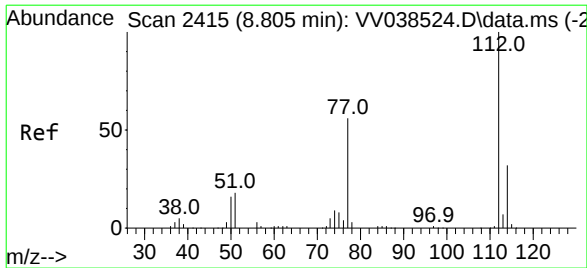
Tgt Ion:	97	Resp:	68004
Ion	Ratio	Lower	Upper
97	100		
99	59.9	42.3	78.5
83	82.6	59.4	110.4
85	54.7	37.0	68.6



#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

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





#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 :

C0AD4

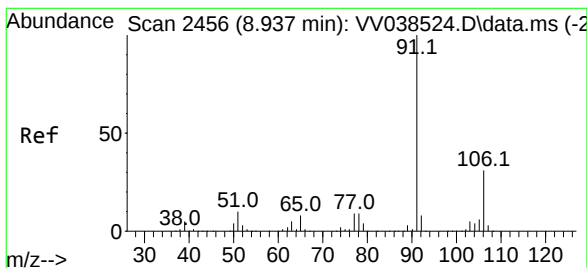
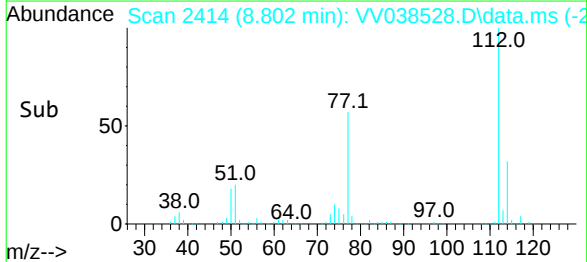
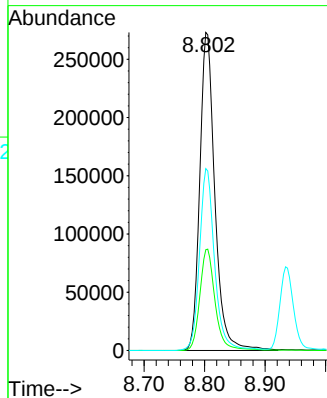
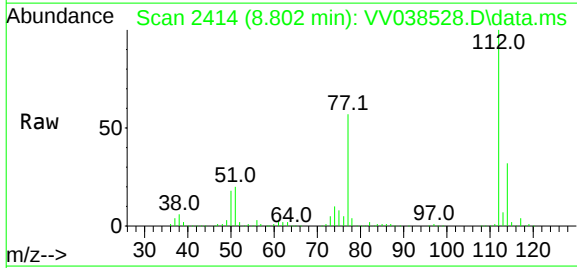
Tgt Ion:112 Resp: 472854

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

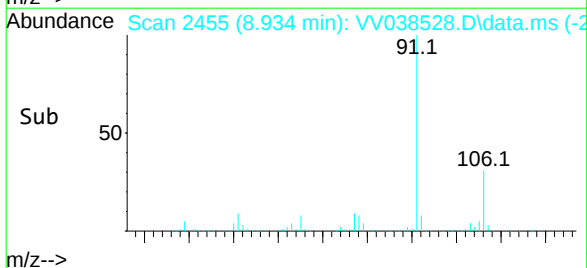
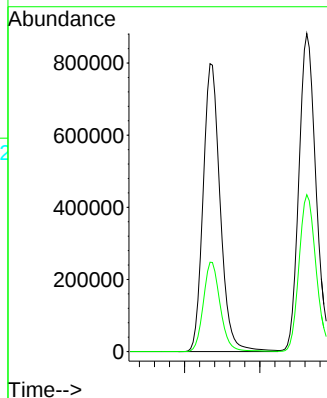
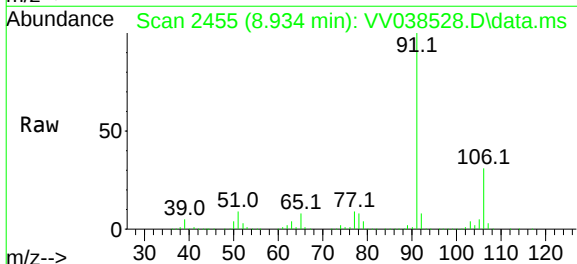
Acq: 24 Jan 2025 11:28

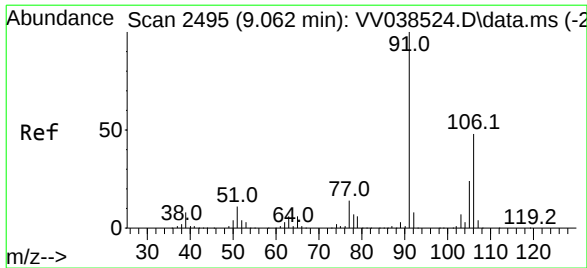
Tgt Ion: 91 Resp: 1259045

Ion Ratio Lower Upper

91 100

106 31.0 22.0 40.8

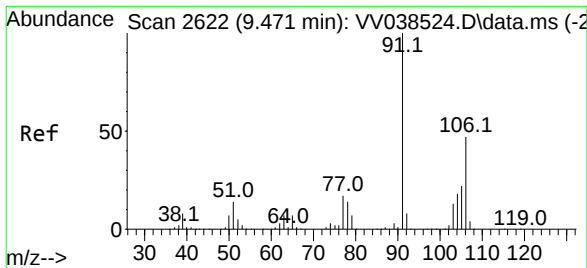
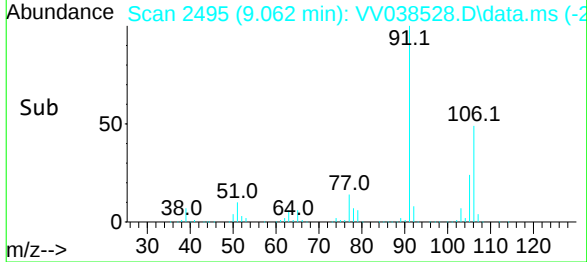
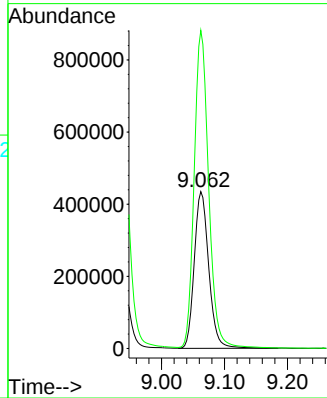
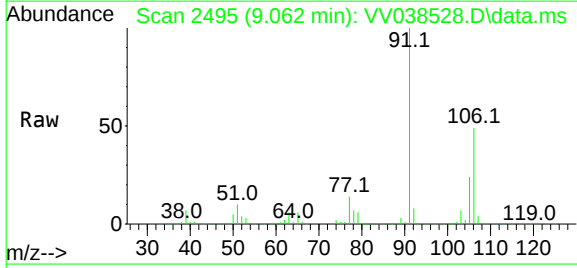




#53
m,p-Xylene
Concen: 20.473 ug/L
RT: 9.062 min Scan# 2495
Delta R.T. -0.000 min
Lab File: VV038528.D
Acq: 24 Jan 2025 11:28

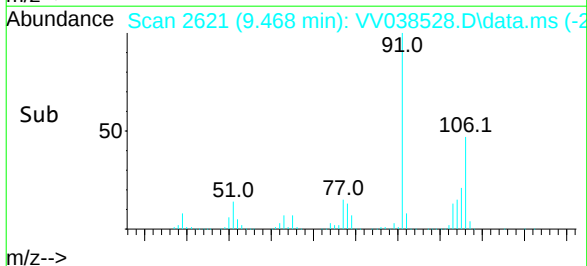
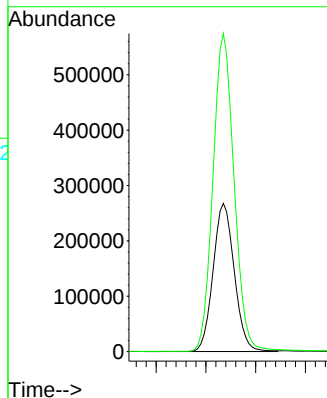
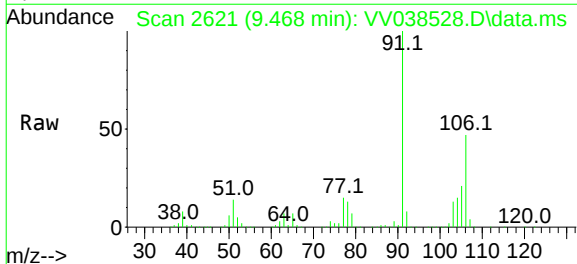
Instrument :
MSVOA_V
ClientSampleId :
C0AD4

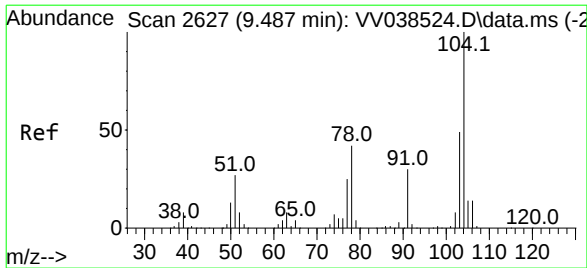
Tgt Ion:106 Resp: 693069
Ion Ratio Lower Upper
106 100
91 202.8 148.2 275.2



#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# 26

Delta R.T. -0.000 min

Lab File: VV038528.D

Acq: 24 Jan 2025 11:28

Instrument :

MSVOA_V

ClientSampleId :

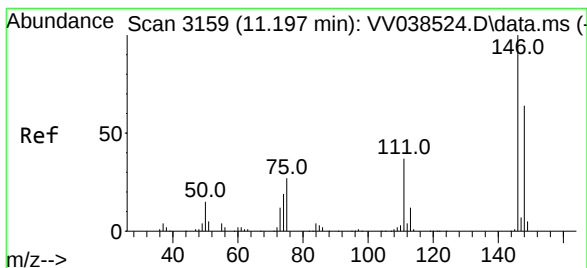
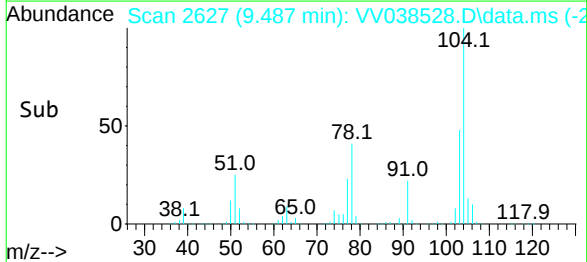
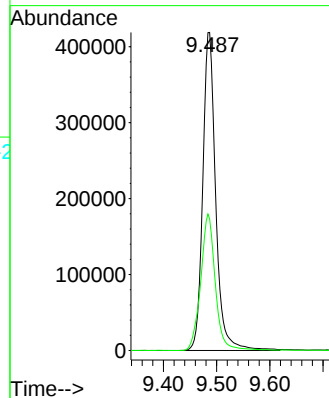
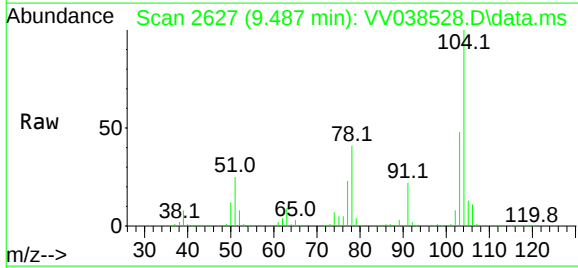
C0AD4

Tgt Ion:104 Resp: 707978

Ion Ratio Lower Upper

104 100

78 41.3 30.8 57.2



#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

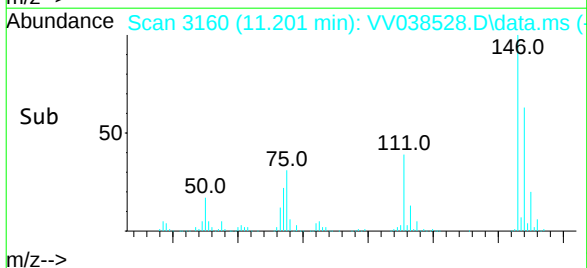
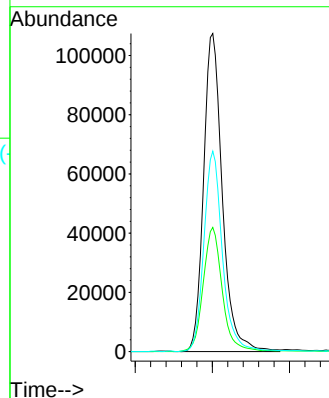
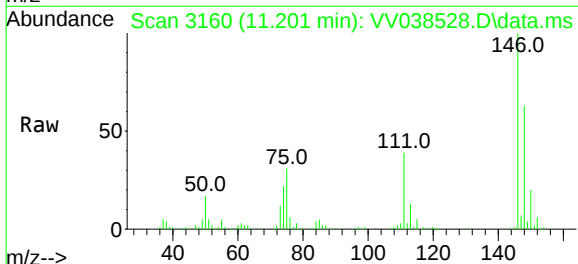
Tgt Ion:146 Resp: 181488

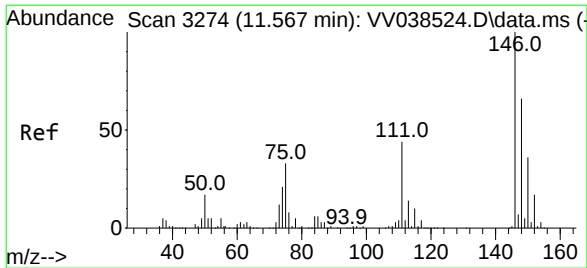
Ion Ratio Lower Upper

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# 3274

Delta R.T. -0.000 min

Lab File: VV038528.D

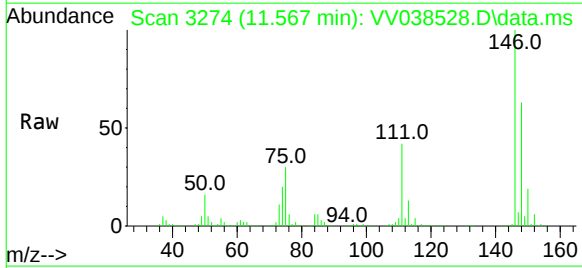
Acq: 24 Jan 2025 11:28

Instrument :

MSVOA_V

ClientSampleId :

C0AD4



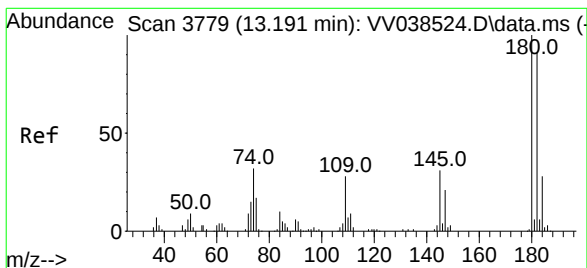
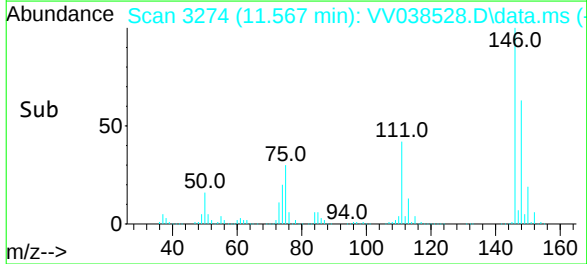
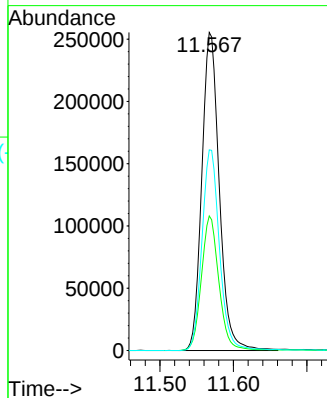
Tgt Ion:146 Resp: 421716

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

