

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV091625\
 Data File : VV039113.D
 Acq On : 16 Sep 2025 17:25
 Operator : SY/MD
 Sample : Q3084-10
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Sep 17 02:26:03 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR091525WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Wed Sep 17 02:19:46 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.538	114	385296	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.776	117	390563	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.175	152	222939	5.000	ug/L	# 0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.291	65	118419	3.897	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	78.000%
7) Chloroethane-d5	1.545	69	106427	4.041	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	80.800%
11) 1,1-Dichloroethene-d2	2.072	65	50477	3.487	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	69.800%
20) 2-Butanone-d5	3.789	46	234909	52.047	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	104.100%
24) Chloroform-d	4.256	84	253459	4.295	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	85.800%
26) 1,2-Dichloroethane-d4	4.947	65	112021	4.507	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	90.200%
32) Benzene-d6	4.963	84	445272	4.166	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	83.400%
36) 1,2-Dichloropropane-d6	5.989	67	145531	4.556	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	91.200%
41) Toluene-d8	7.239	98	334284	3.494	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	69.800%#
43) trans-1,3-Dichloroprop...	7.558	79	44977	3.849	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	77.000%
46) 2-Hexanone-d5	8.017	63	159763	42.236	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	84.480%
56) 1,1,2,2-Tetrachloroeth...	10.143	84	105085	4.608	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	92.200%
66) 1,2-Dichlorobenzene-d4	11.548	152	132535	3.693	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	73.800%#
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.294	62	225247	5.339	ug/L #	79
8) Chloroethane	1.294	64	93185	3.545	ug/L #	50
12) 1,1-Dichloroethene	2.082	96	33679	1.065	ug/L #	6
17) Methyl tert-butyl Ether	2.719	73	16674	0.307	ug/L #	64
18) trans-1,2-Dichloroethene	2.706	96	279608	8.683	ug/L	96
19) 1,1-Dichloroethane	3.117	63	870957	14.746	ug/L	98
22) cis-1,2-Dichloroethene	3.818	96	2577086	81.998	ug/L	98
27) 1,2-Dichloroethane	5.063	62	16895	0.538	ug/L	97
33) Benzene	5.014	78	306977	2.497	ug/L	100
34) Trichloroethene	5.860	95	3191	0.096	ug/L	97
42) Toluene	7.326	91	26761	0.209	ug/L	98
51) Chlorobenzene	8.802	112	3103172	37.525	ug/L	99
52) Ethylbenzene	8.953	91	10378	0.079	ug/L	97
53) m,p-Xylene	9.101	106	2774	0.054	ug/L	65
61) 1,2,3-Trichloropropane	11.104	75	1211528	64.514	ug/L #	49
64) 1,3-Dichlorobenzene	11.104	146	3969260	54.549	ug/L	96
65) 1,4-Dichlorobenzene	11.104	146	3969260	52.730	ug/L	96
67) 1,2-Dichlorobenzene	11.567	146	226934	3.520	ug/L	97

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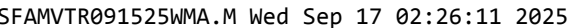
Instrument :
MSVOA_V
ClientSampleId :

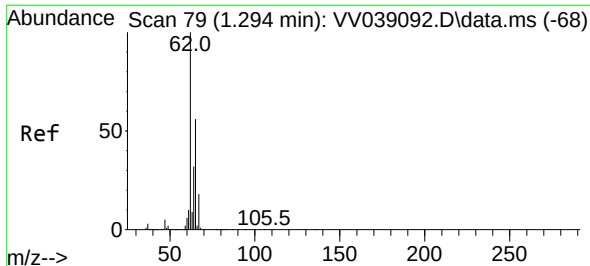
Quant Time: Sep 17 02:26:03 2025
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quant Time: Sep 17 02:26:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR091525WMA.M
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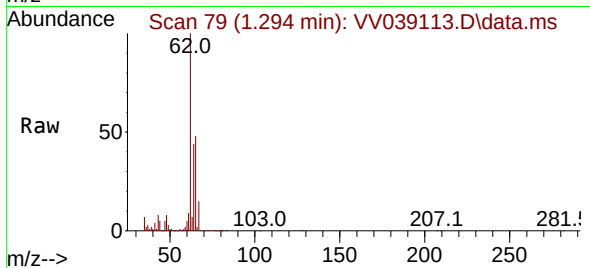


#5
 Vinyl chloride
 Concen: 5.339 ug/L
 RT: 1.294 min Scan# 79
 Delta R.T. -0.000 min
 Lab File: VV039113.D
 Acq: 16 Sep 2025 17:25

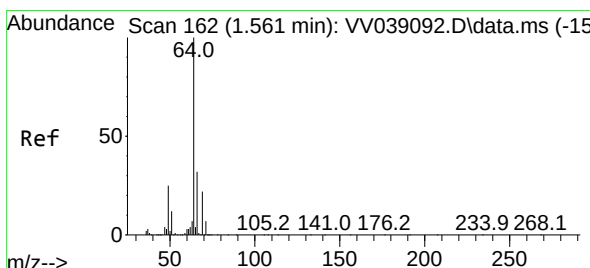
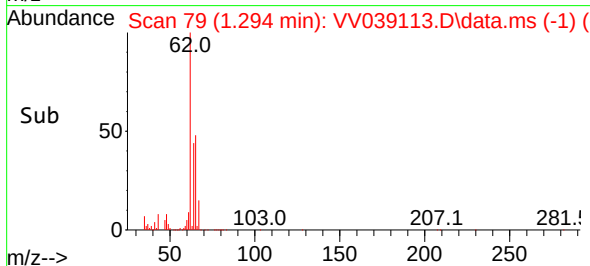
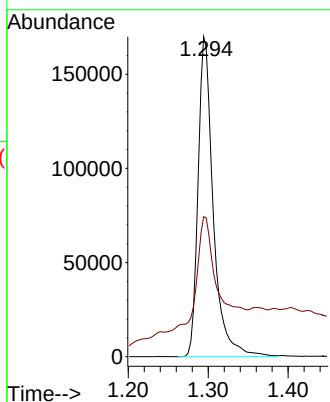
Instrument :

MSVOA_V

ClientSampleId :

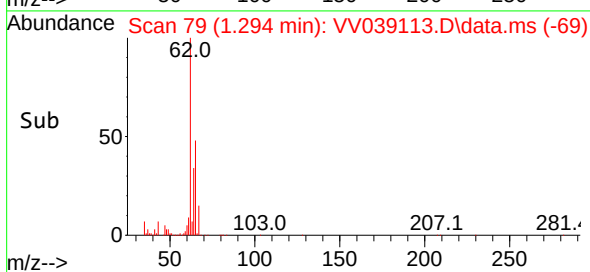
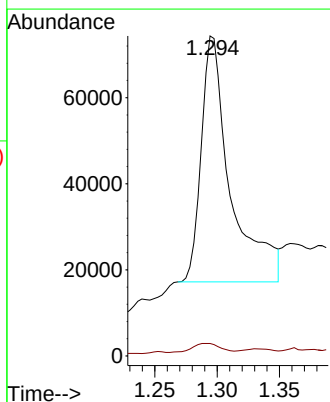
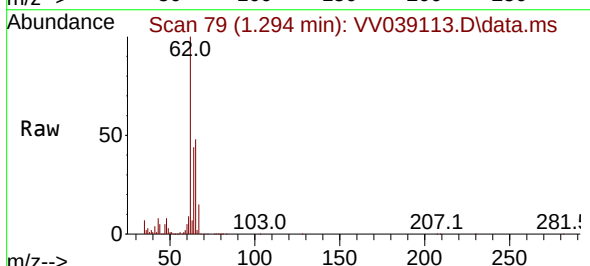


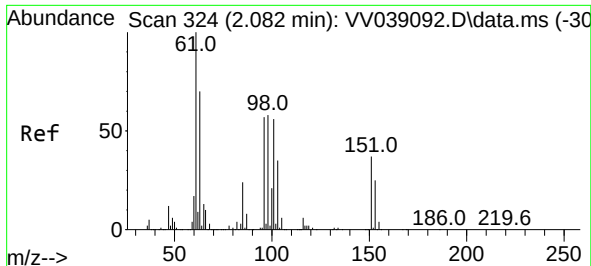
Tgt Ion: 62 Resp: 225247
 Ion Ratio Lower Upper
 62 100
 64 43.7 22.4 41.6#



#8
 Chloroethane
 Concen: 3.545 ug/L
 RT: 1.294 min Scan# 79
 Delta R.T. -0.267 min
 Lab File: VV039113.D
 Acq: 16 Sep 2025 17:25

Tgt Ion: 64 Resp: 93185
 Ion Ratio Lower Upper
 64 100
 66 3.9 22.3 41.5#





#12

1,1-Dichloroethene

Concen: 1.065 ug/L

RT: 2.082 min Scan# 31

Delta R.T. -0.000 min

Lab File: VV039113.D

Acq: 16 Sep 2025 17:25

Instrument :

MSVOA_V

ClientSampleId :

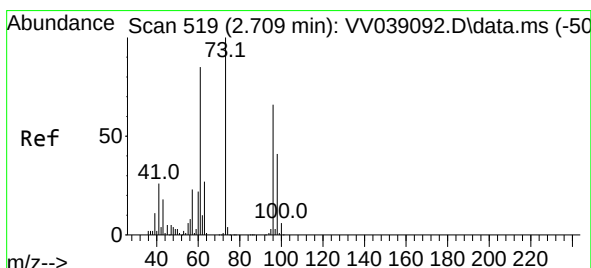
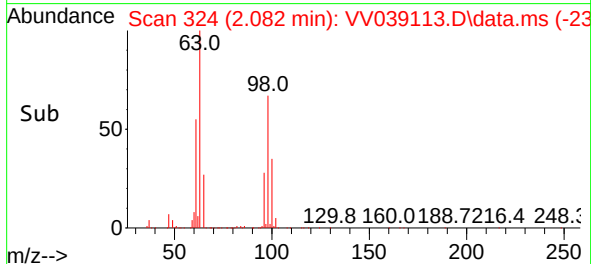
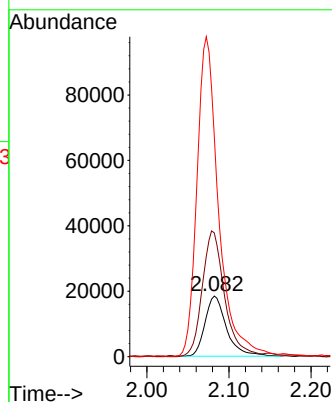
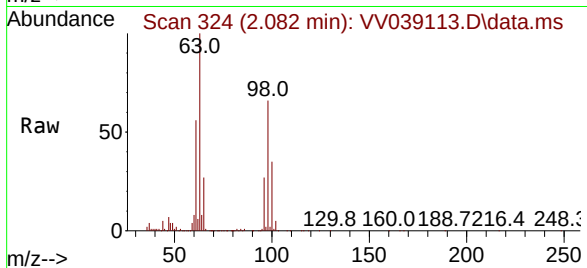
Tgt Ion: 96 Resp: 33679

Ion Ratio Lower Upper

96 100

61 204.5 124.7 231.7

63 364.9 93.5 173.7#



#17

Methyl tert-butyl Ether

Concen: 0.307 ug/L

RT: 2.719 min Scan# 522

Delta R.T. 0.010 min

Lab File: VV039113.D

Acq: 16 Sep 2025 17:25

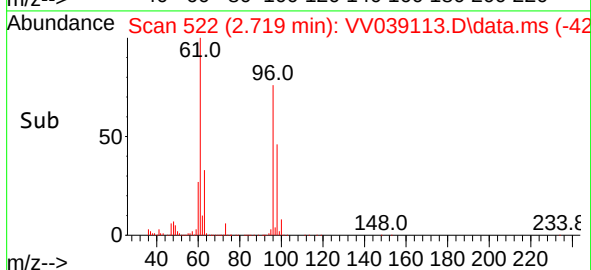
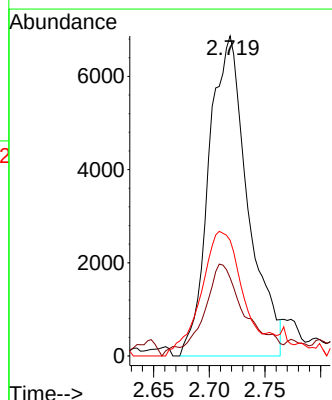
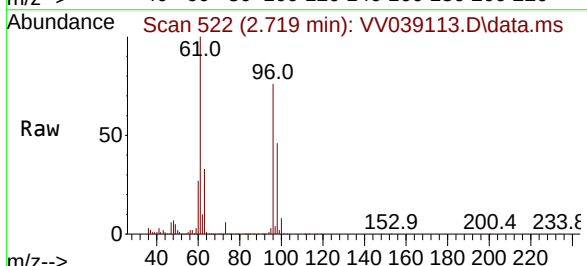
Tgt Ion: 73 Resp: 16674

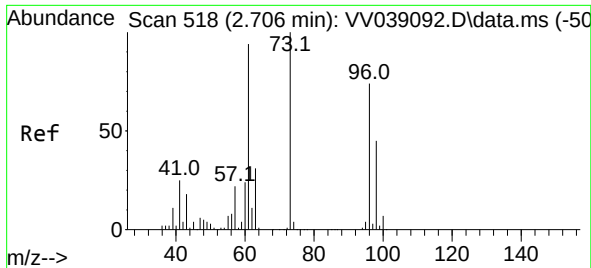
Ion Ratio Lower Upper

73 100

43 30.9 14.7 22.1#

57 42.8 18.0 27.0#



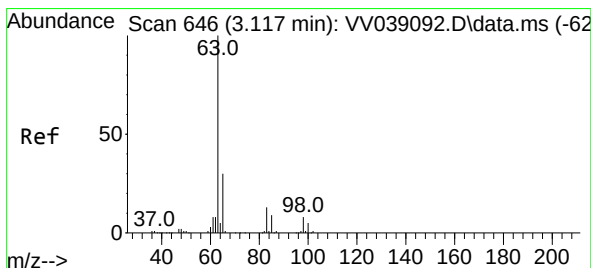
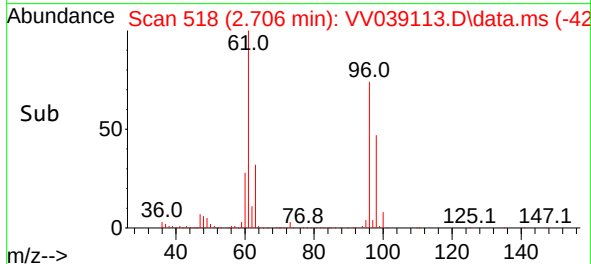
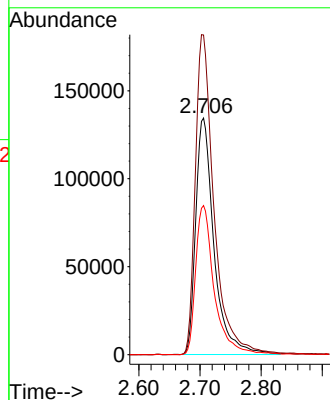
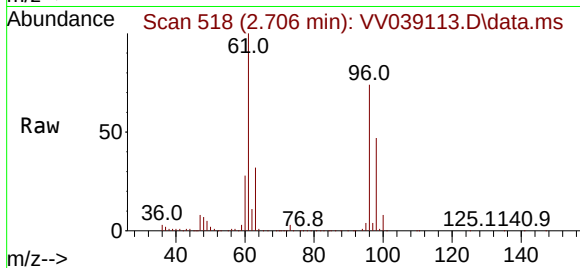


#18
 trans-1,2-Dichloroethene
 Concen: 8.683 ug/L
 RT: 2.706 min Scan# 518
 Delta R.T. -0.000 min
 Lab File: VV039113.D
 Acq: 16 Sep 2025 17:25

Instrument :
 MSVOA_V
 ClientSampleId :

Tgt Ion: 96 Resp: 279608

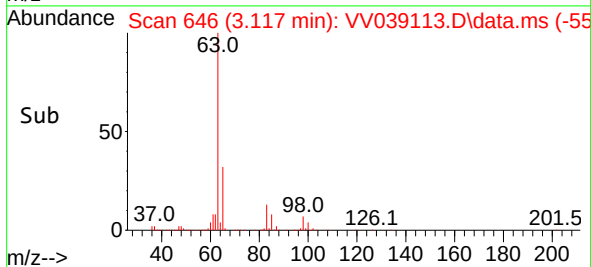
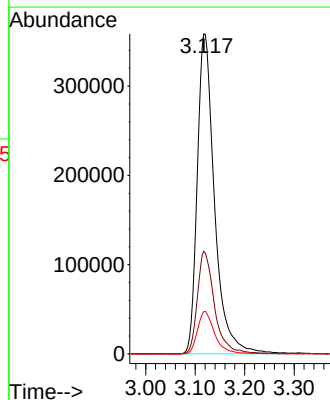
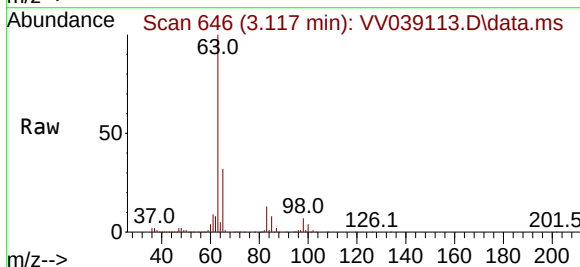
Ion	Ratio	Lower	Upper
96	100		
61	135.1	89.7	166.5
98	63.0	44.9	83.3

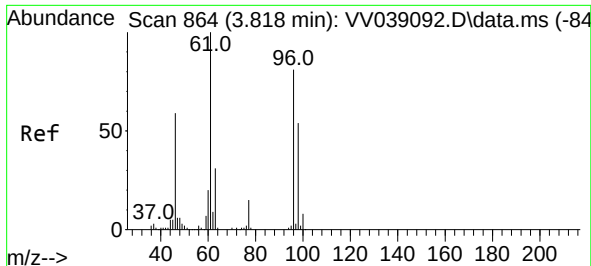


#19
 1,1-Dichloroethane
 Concen: 14.746 ug/L
 RT: 3.117 min Scan# 646
 Delta R.T. -0.000 min
 Lab File: VV039113.D
 Acq: 16 Sep 2025 17:25

Tgt Ion: 63 Resp: 870957

Ion	Ratio	Lower	Upper
63	100		
65	32.1	21.5	39.9
83	13.2	9.2	17.2



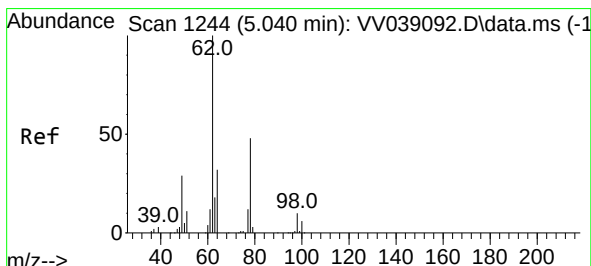
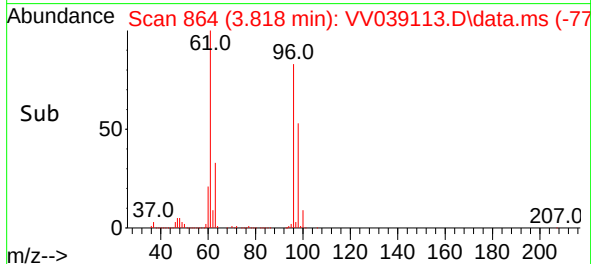
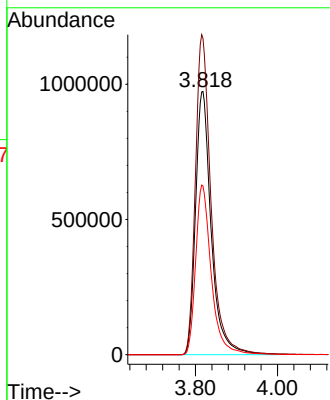
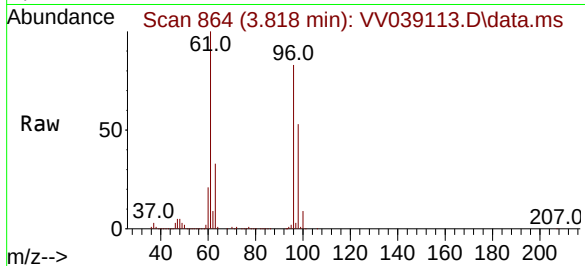


#22
 cis-1,2-Dichloroethene
 Concen: 81.998 ug/L
 RT: 3.818 min Scan# 80
 Delta R.T. -0.000 min
 Lab File: VV039113.D
 Acq: 16 Sep 2025 17:25

Instrument :
 MSVOA_V
 ClientSampleId :

Tgt Ion: 96 Resp: 2577086

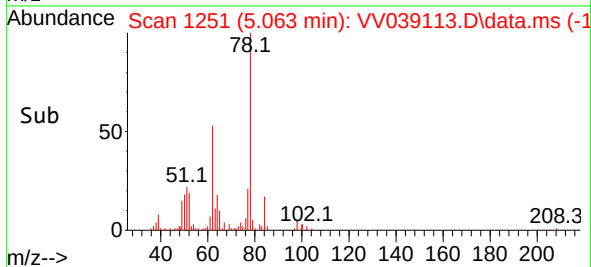
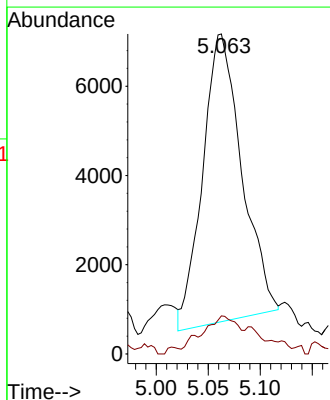
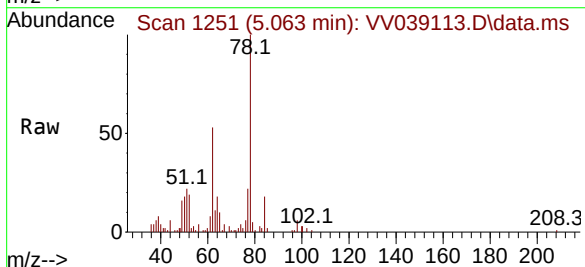
Ion	Ratio	Lower	Upper
96	100		
61	120.1	85.4	158.6
98	64.1	46.6	86.6

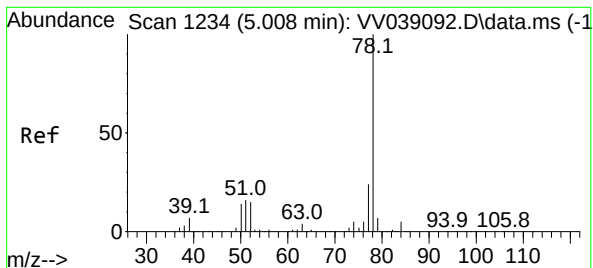


#27
 1,2-Dichloroethane
 Concen: 0.538 ug/L
 RT: 5.063 min Scan# 1251
 Delta R.T. 0.022 min
 Lab File: VV039113.D
 Acq: 16 Sep 2025 17:25

Tgt Ion: 62 Resp: 16895

Ion	Ratio	Lower	Upper
62	100		
98	11.9	8.6	12.8





#33

Benzene

Concen: 2.497 ug/L

RT: 5.014 min Scan# 1236

Delta R.T. 0.006 min

Lab File: VV039113.D

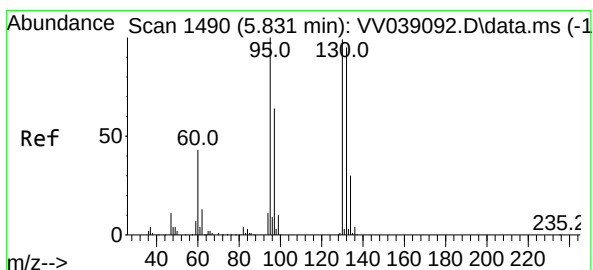
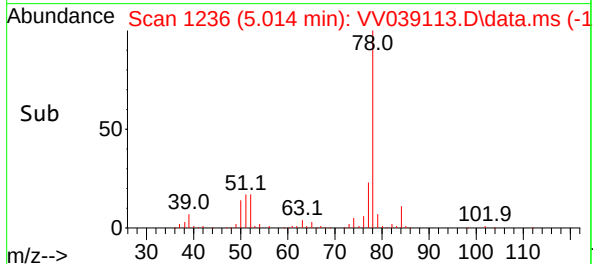
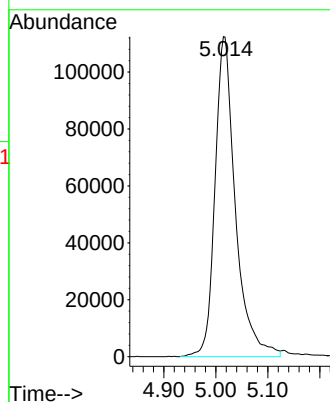
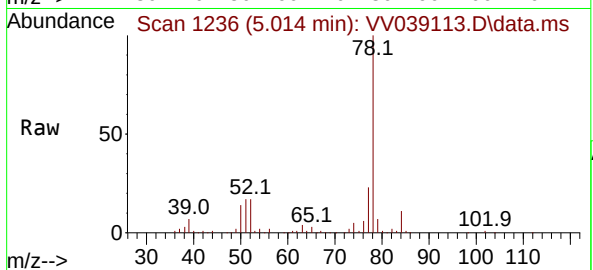
Acq: 16 Sep 2025 17:25

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion: 78 Resp: 306977



#34

Trichloroethene

Concen: 0.096 ug/L

RT: 5.860 min Scan# 1499

Delta R.T. 0.029 min

Lab File: VV039113.D

Acq: 16 Sep 2025 17:25

Tgt Ion: 95 Resp: 3191

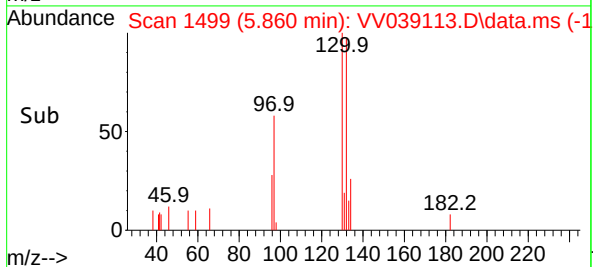
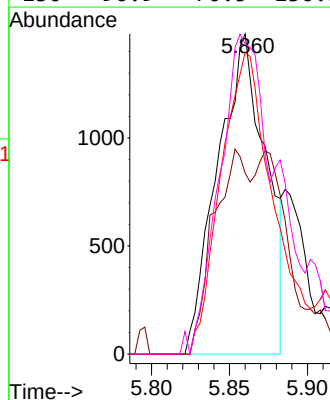
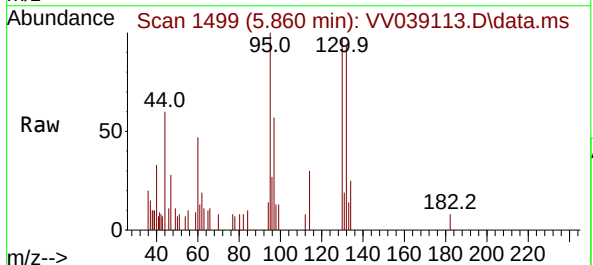
Ion Ratio Lower Upper

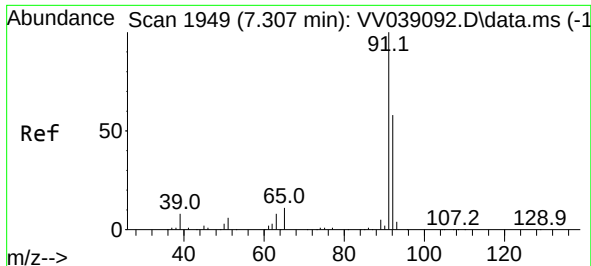
95 100

97 56.5 43.3 80.5

132 94.3 65.5 121.7

130 96.9 70.5 130.9

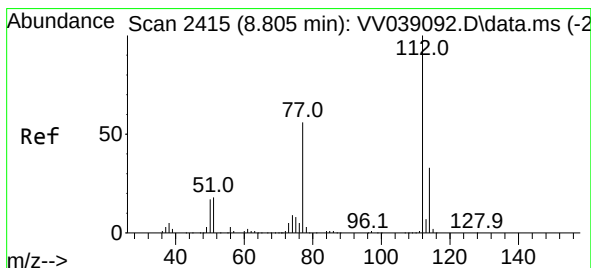
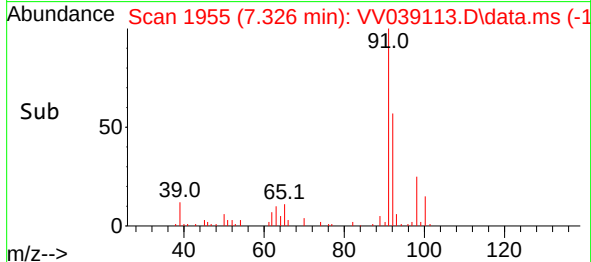
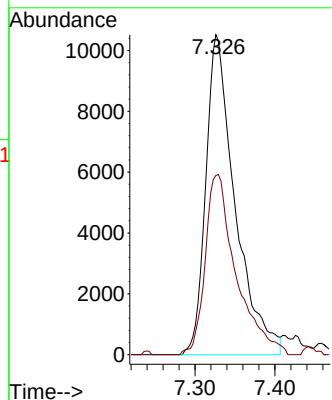
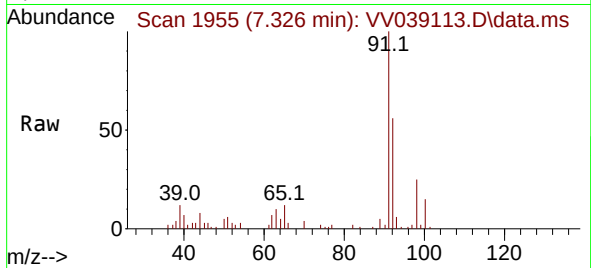




#42
Toluene
Concen: 0.209 ug/L
RT: 7.326 min Scan# 1949
Delta R.T. 0.019 min
Lab File: VV039113.D
Acq: 16 Sep 2025 17:25

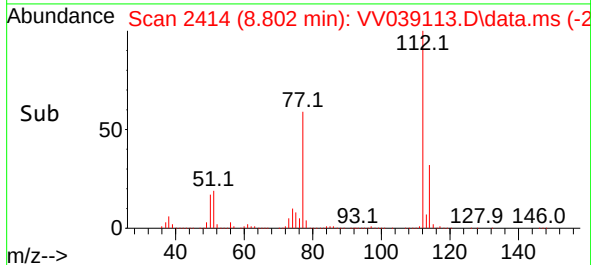
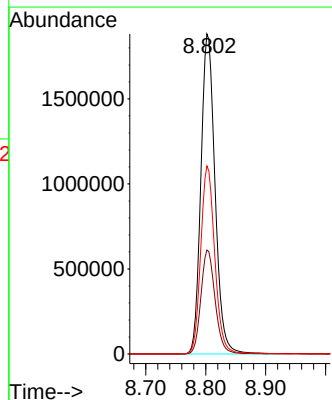
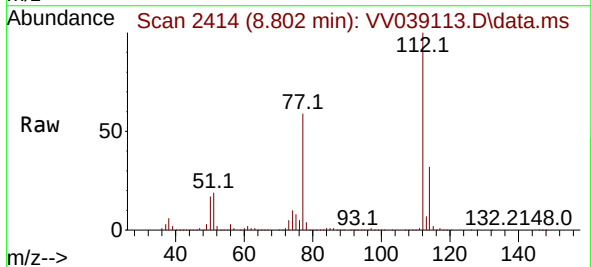
Instrument :
MSVOA_V
ClientSampleId :

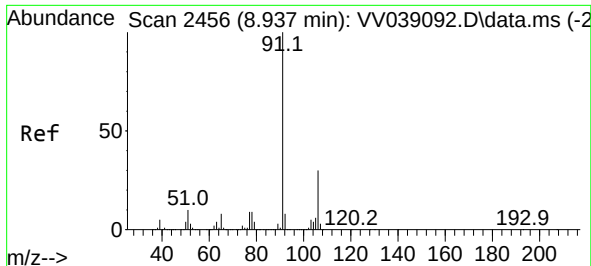
Tgt Ion: 91 Resp: 26761
Ion Ratio Lower Upper
91 100
92 56.0 40.5 75.1



#51
Chlorobenzene
Concen: 37.525 ug/L
RT: 8.802 min Scan# 2414
Delta R.T. -0.003 min
Lab File: VV039113.D
Acq: 16 Sep 2025 17:25

Tgt Ion: 112 Resp: 3103172
Ion Ratio Lower Upper
112 100
114 32.5 23.0 42.6
77 58.8 46.6 69.8

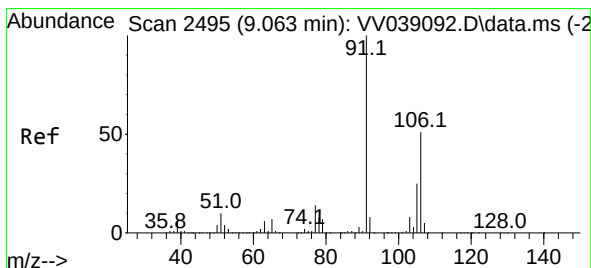
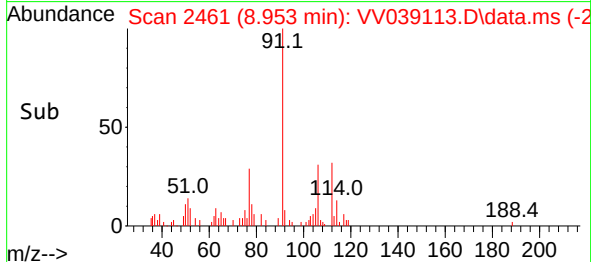
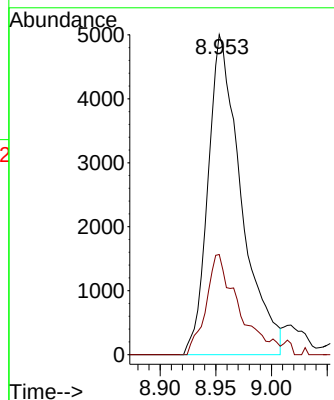
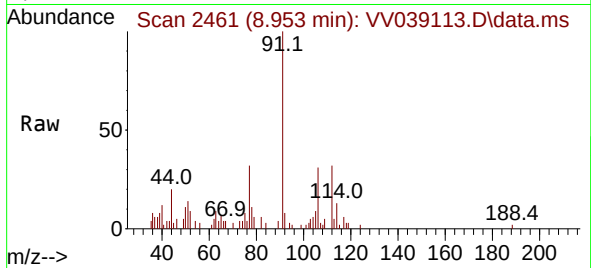




#52
Ethylbenzene
Concen: 0.079 ug/L
RT: 8.953 min Scan# 2456
Delta R.T. 0.016 min
Lab File: VV039113.D
Acq: 16 Sep 2025 17:25

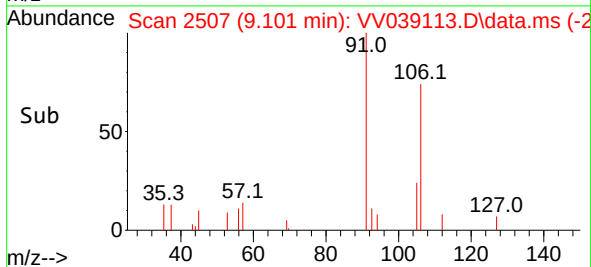
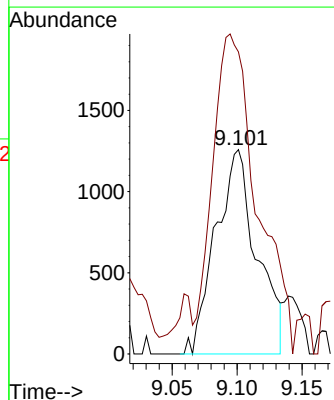
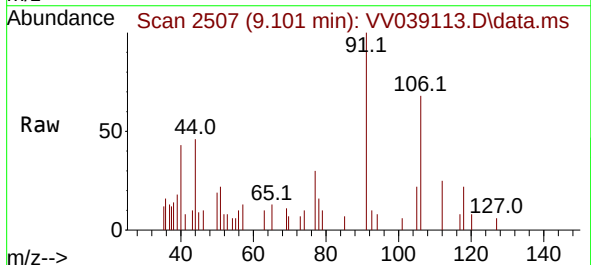
Instrument :
MSVOA_V
ClientSampleId :

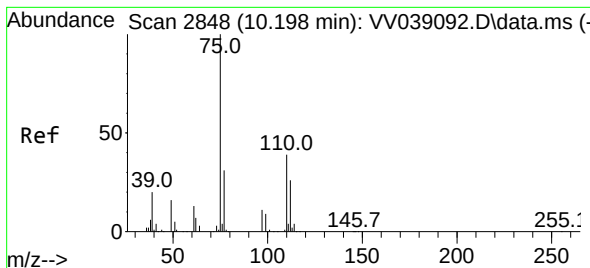
Tgt Ion: 91 Resp: 10378
Ion Ratio Lower Upper
91 100
106 31.3 20.8 38.6



#53
m,p-Xylene
Concen: 0.054 ug/L
RT: 9.101 min Scan# 2507
Delta R.T. 0.038 min
Lab File: VV039113.D
Acq: 16 Sep 2025 17:25

Tgt Ion: 106 Resp: 2774
Ion Ratio Lower Upper
106 100
91 147.8 140.1 260.3





#61

1,2,3-Trichloropropane

Concen: 64.514 ug/L

RT: 11.104 min Scan# 3130

Delta R.T. 0.907 min

Lab File: VV039113.D

Acq: 16 Sep 2025 17:25

Instrument :

MSVOA_V

ClientSampleId :

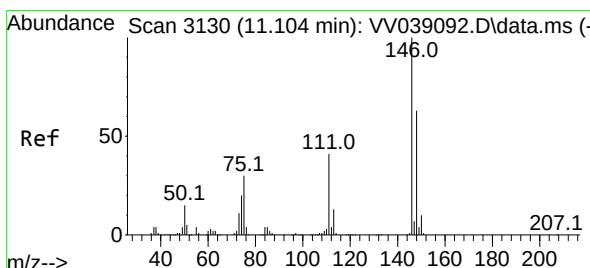
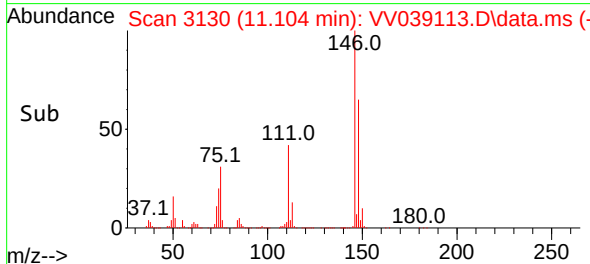
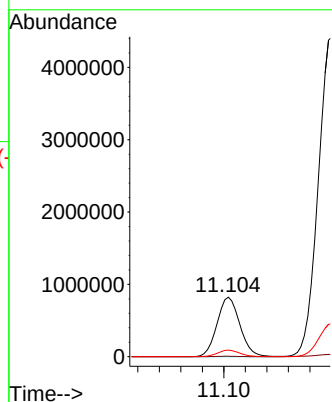
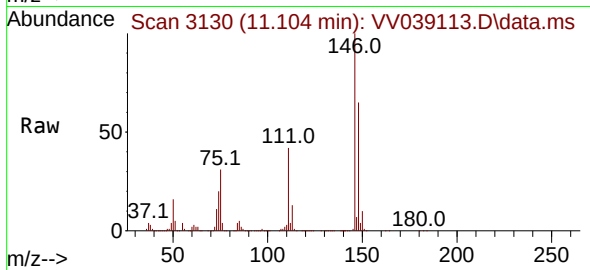
Tgt Ion: 75 Resp: 1211528

Ion Ratio Lower Upper

75 100

77 0.0 25.1 37.7#

110 10.8 31.0 46.4#



#64

1,3-Dichlorobenzene

Concen: 54.549 ug/L

RT: 11.104 min Scan# 3130

Delta R.T. -0.000 min

Lab File: VV039113.D

Acq: 16 Sep 2025 17:25

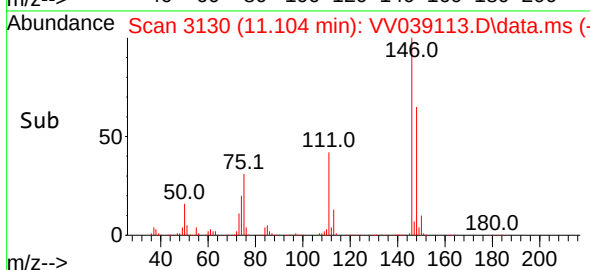
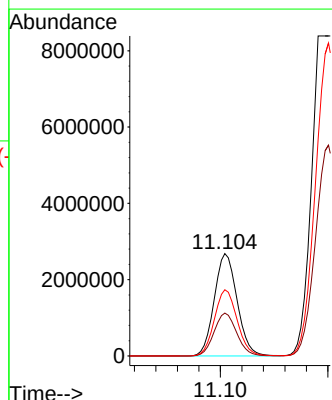
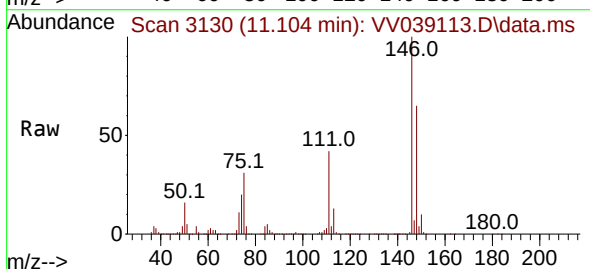
Tgt Ion:146 Resp: 3969260

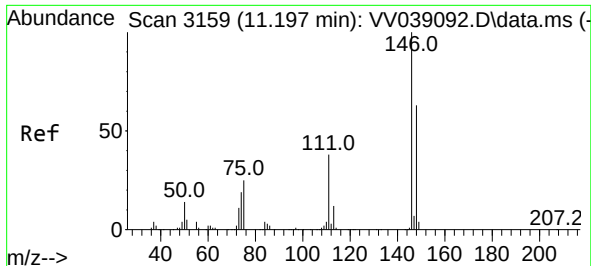
Ion Ratio Lower Upper

146 100

111 41.9 28.3 52.7

148 64.7 42.9 79.7

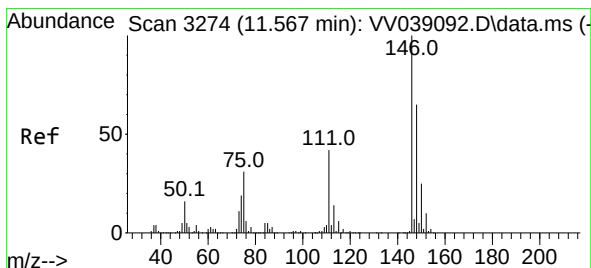
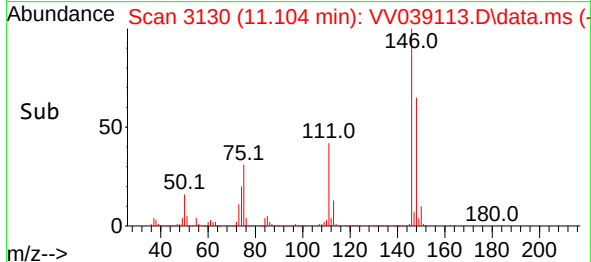
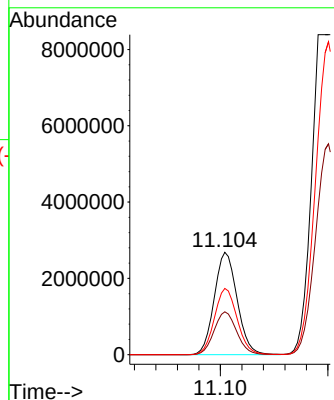
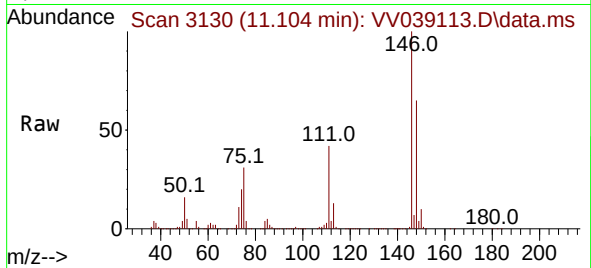




#65
1,4-Dichlorobenzene
Concen: 52.730 ug/L
RT: 11.104 min Scan# 3159
Delta R.T. -0.093 min
Lab File: VV039113.D
Acq: 16 Sep 2025 17:25

Instrument :
MSVOA_V
ClientSampleId :

Tgt Ion:146 Resp: 3969260
Ion Ratio Lower Upper
146 100
111 41.9 27.2 50.6
148 64.7 43.8 81.4



#67
1,2-Dichlorobenzene
Concen: 3.520 ug/L
RT: 11.567 min Scan# 3274
Delta R.T. -0.000 min
Lab File: VV039113.D
Acq: 16 Sep 2025 17:25

Tgt Ion:146 Resp: 226934
Ion Ratio Lower Upper
146 100
111 42.9 33.4 50.2
148 60.5 51.1 76.7

