

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV091525\
 Data File : VV039086.D
 Acq On : 15 Sep 2025 17:50
 Operator : SY/MD
 Sample : Q3084-03
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Sep 16 02:26:16 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR091525WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Tue Sep 16 02:04:20 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.535	114	385806	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.776	117	383892	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.175	152	170898	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.291	65	135501	4.453	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	89.000%
7) Chloroethane-d5	1.545	69	117338	4.450	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	89.000%
11) 1,1-Dichloroethene-d2	2.072	65	59836	4.128	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	82.600%
20) 2-Butanone-d5	3.786	46	228670	50.597	ug/L	-0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	101.200%
24) Chloroform-d	4.256	84	276100	4.672	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.400%
26) 1,2-Dichloroethane-d4	4.947	65	118032	4.743	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.800%
32) Benzene-d6	4.963	84	496369	4.725	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.600%
36) 1,2-Dichloropropane-d6	5.989	67	155087	4.939	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	98.800%
41) Toluene-d8	7.239	98	381171	4.053	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	81.000%
43) trans-1,3-Dichloroprop...	7.558	79	51469	4.482	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	89.600%
46) 2-Hexanone-d5	8.018	63	162479	43.701	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	87.400%
56) 1,1,2,2-Tetrachloroeth...	10.143	84	106775	4.763	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	95.200%
66) 1,2-Dichlorobenzene-d4	11.548	152	134899	4.904	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	98.000%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.298	62	268298	6.351	ug/L	95
8) Chloroethane	1.298	64	89101	3.385	ug/L #	49
12) 1,1-Dichloroethene	2.082	96	36043	1.138	ug/L #	1
16) Methylene chloride	2.458	84	6093	0.171	ug/L	91
17) Methyl tert-butyl Ether	2.712	73	47006	0.863	ug/L	95
18) trans-1,2-Dichloroethene	2.706	96	183148	5.680	ug/L	98
19) 1,1-Dichloroethane	3.121	63	1131084	19.125	ug/L	99
22) cis-1,2-Dichloroethene	3.815	96	4542632	144.346	ug/L	98
27) 1,2-Dichloroethane	5.043	62	222826	7.087	ug/L	100
33) Benzene	5.014	78	367843	3.044	ug/L	100
34) Trichloroethene	5.850	95	13295	0.408	ug/L	90
35) Methylcyclohexane	5.989	83	35591	0.698	ug/L #	19
37) 1,2-Dichloropropane	5.989	63	16366	0.522	ug/L #	87
42) Toluene	7.329	91	10619	0.084	ug/L	88
51) Chlorobenzene	8.805	112	365730	4.499	ug/L	99
61) 1,2,3-Trichloropropane	11.104	75	74219	5.156	ug/L #	50
64) 1,3-Dichlorobenzene	11.107	146	255019	4.572	ug/L	99
65) 1,4-Dichlorobenzene	11.194	146	1956480	33.906	ug/L	99
67) 1,2-Dichlorobenzene	11.567	146	26332	0.533	ug/L #	88

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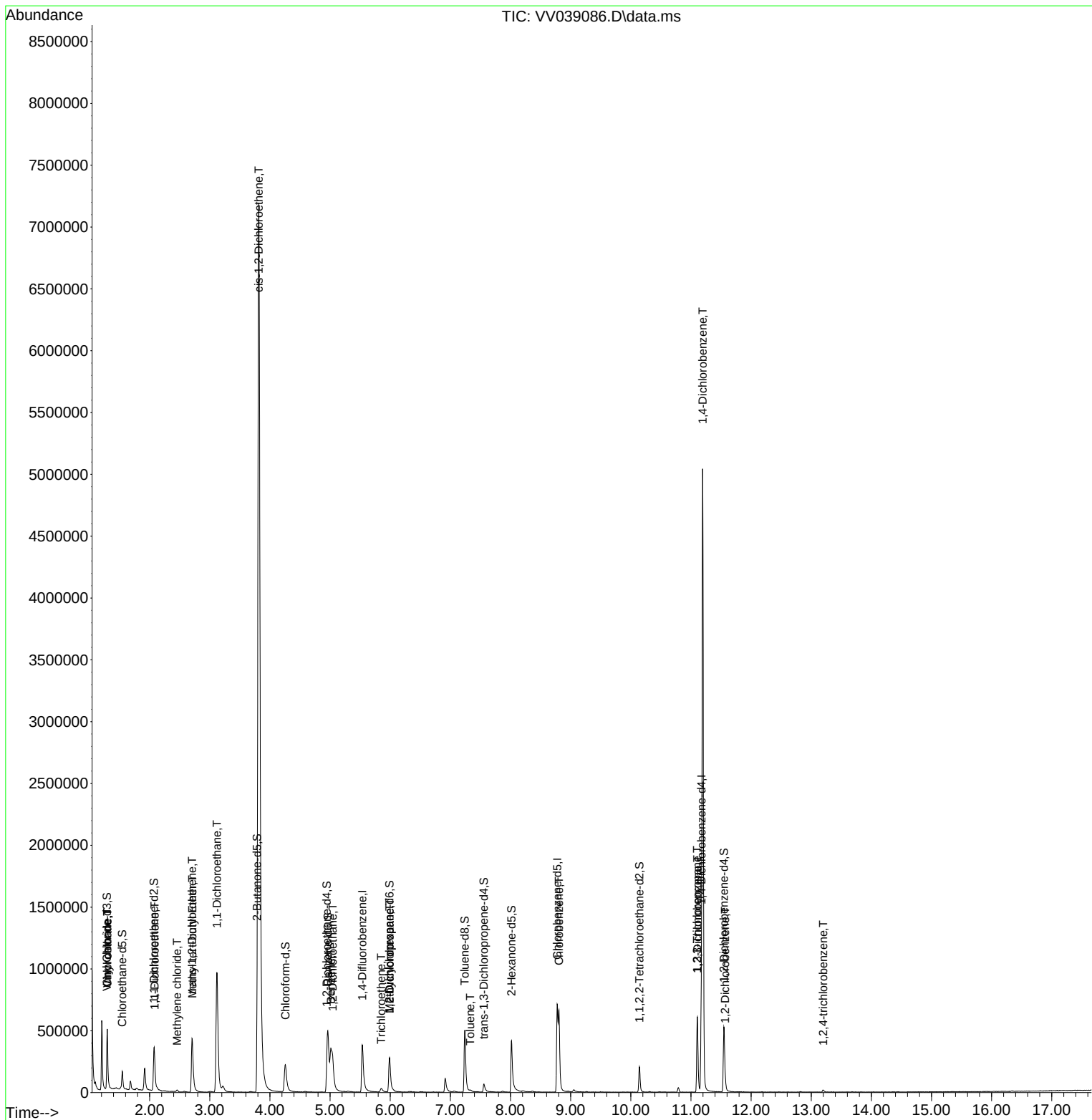
Instrument :
MSVOA_V
ClientSampleId :

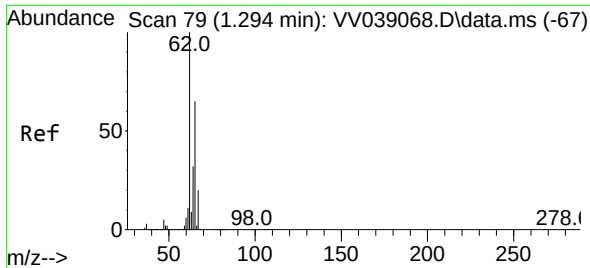
Quant Time: Sep 16 02:26:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR091525WMA.M
Quant Title : TRACE VOA SFAM1.0
QLast Update : Tue Sep 16 02:04:20 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 1,2,4-trichlorobenzene	13.201	180	5829	0.212	ug/L	91

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

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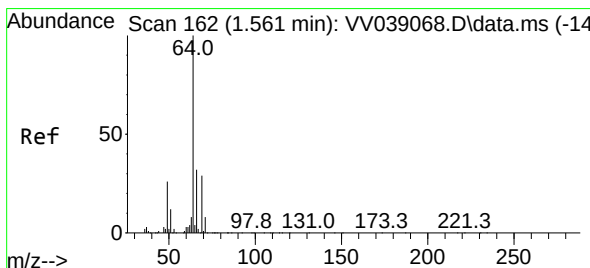
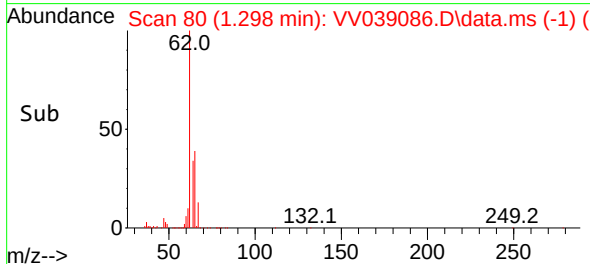
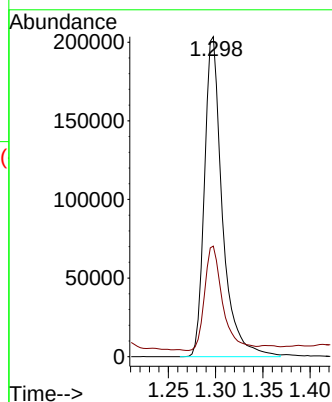
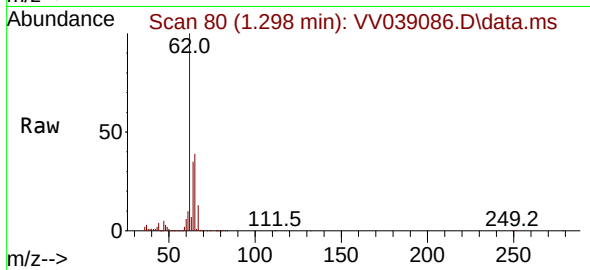




#5
 Vinyl chloride
 Concen: 6.351 ug/L
 RT: 1.298 min Scan# 80
 Delta R.T. 0.003 min
 Lab File: VV039086.D
 Acq: 15 Sep 2025 17:50

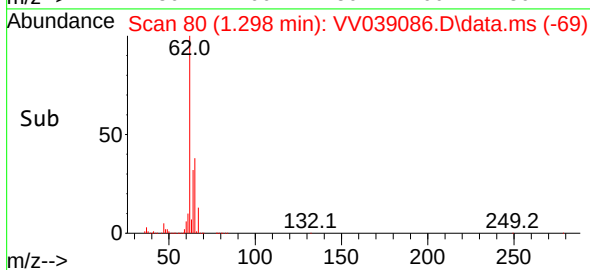
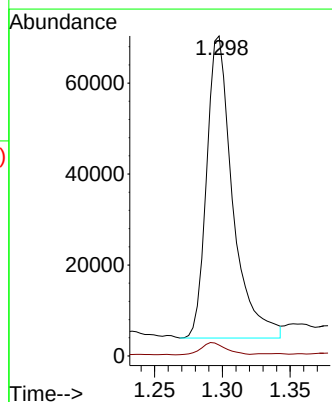
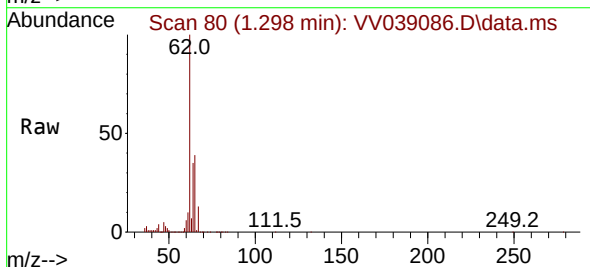
Instrument :
 MSVOA_V
 ClientSampleId :

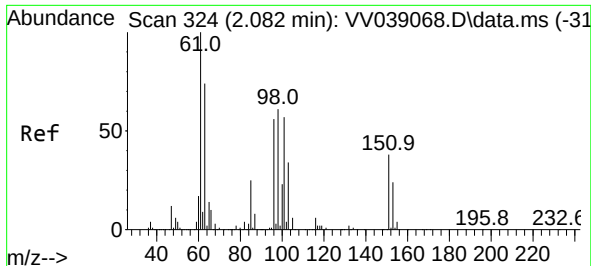
Tgt Ion: 62 Resp: 268298
 Ion Ratio Lower Upper
 62 100
 64 34.6 22.4 41.6



#8
 Chloroethane
 Concen: 3.385 ug/L
 RT: 1.298 min Scan# 80
 Delta R.T. -0.263 min
 Lab File: VV039086.D
 Acq: 15 Sep 2025 17:50

Tgt Ion: 64 Resp: 89101
 Ion Ratio Lower Upper
 64 100
 66 3.4 22.3 41.5#

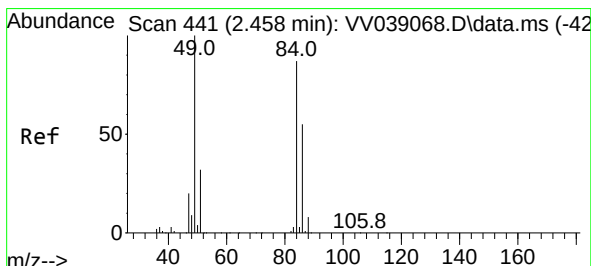
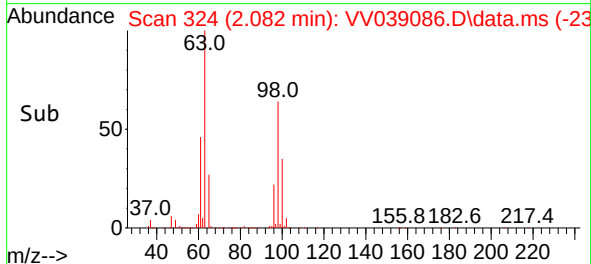
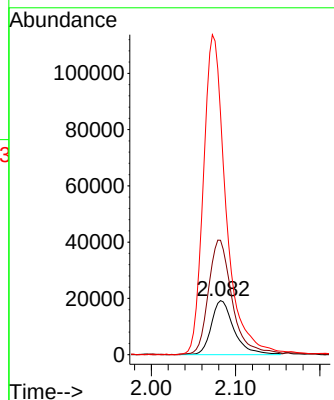
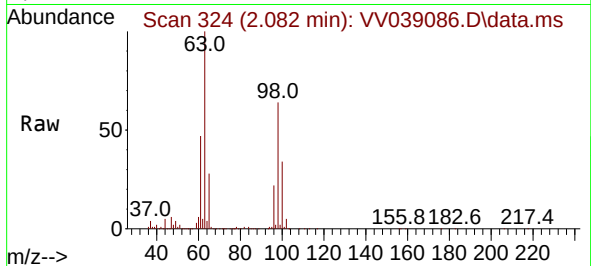




#12
 1,1-Dichloroethene
 Concen: 1.138 ug/L
 RT: 2.082 min Scan# 31
 Delta R.T. 0.000 min
 Lab File: VV039086.D
 Acq: 15 Sep 2025 17:50

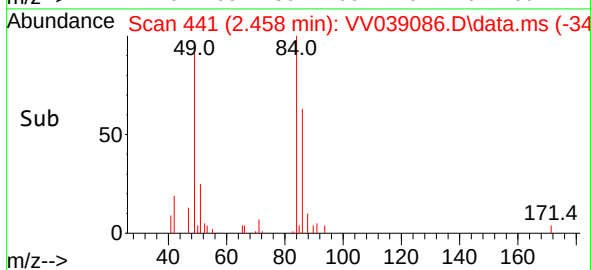
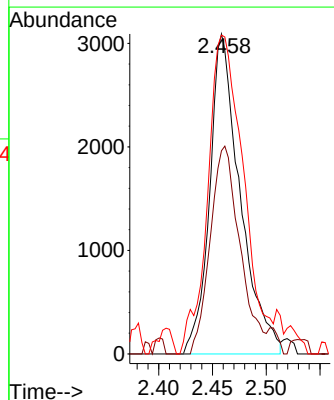
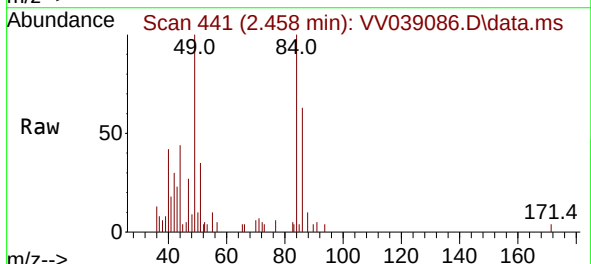
Instrument :
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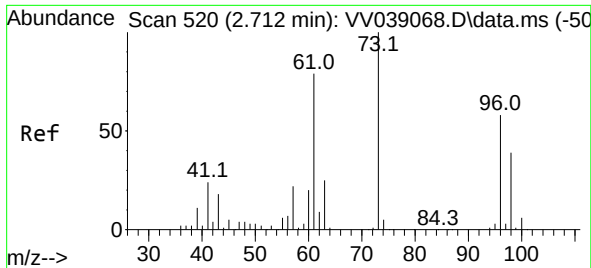
Tgt Ion: 96 Resp: 36043
 Ion Ratio Lower Upper
 96 100
 61 211.8 124.7 231.7
 63 446.0 93.5 173.7#



#16
 Methylene chloride
 Concen: 0.171 ug/L
 RT: 2.458 min Scan# 441
 Delta R.T. 0.000 min
 Lab File: VV039086.D
 Acq: 15 Sep 2025 17:50

Tgt Ion: 84 Resp: 6093
 Ion Ratio Lower Upper
 84 100
 86 63.5 44.2 82.2
 49 99.7 80.6 149.6

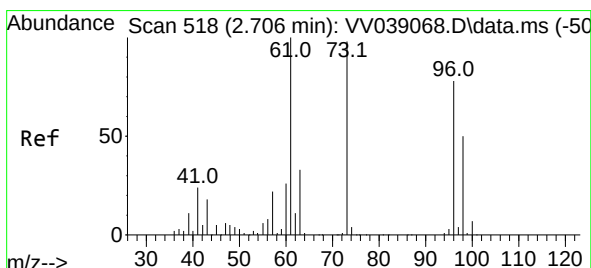
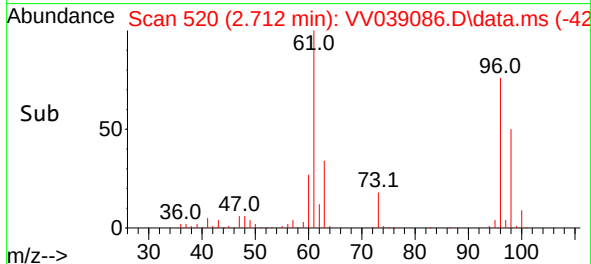
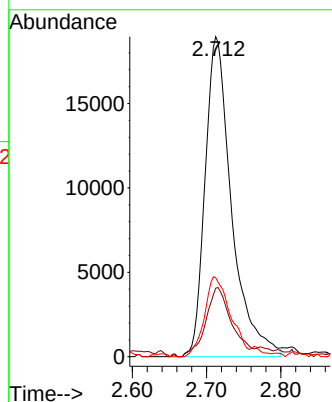
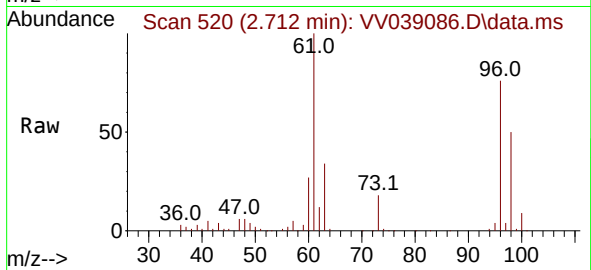




#17
Methyl tert-butyl Ether
Concen: 0.863 ug/L
RT: 2.712 min Scan# 518
Delta R.T. 0.000 min
Lab File: VV039086.D
Acq: 15 Sep 2025 17:50

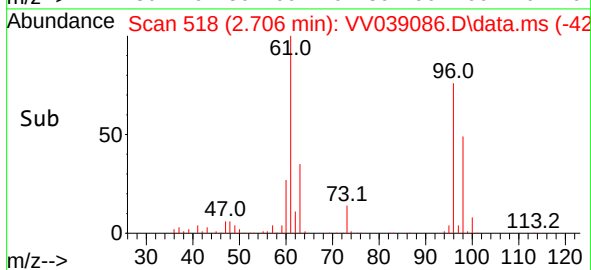
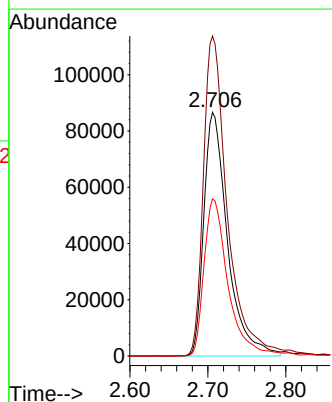
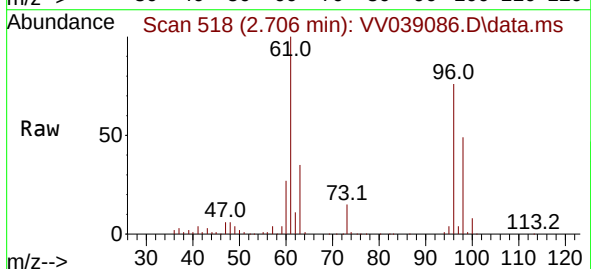
Instrument :
MSVOA_V
ClientSampleId :

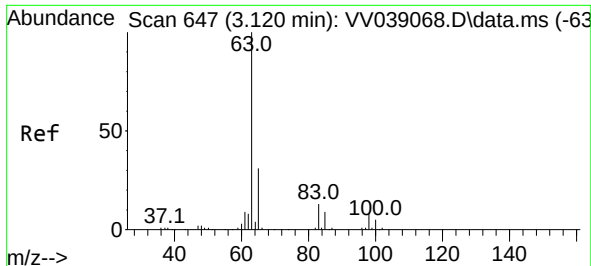
Tgt Ion: 73 Resp: 47006
Ion Ratio Lower Upper
73 100
43 21.2 14.7 22.1
57 24.4 18.0 27.0



#18
trans-1,2-Dichloroethene
Concen: 5.680 ug/L
RT: 2.706 min Scan# 518
Delta R.T. 0.000 min
Lab File: VV039086.D
Acq: 15 Sep 2025 17:50

Tgt Ion: 96 Resp: 183148
Ion Ratio Lower Upper
96 100
61 131.3 89.7 166.5
98 64.5 44.9 83.3





#19

1,1-Dichloroethane

Concen: 19.125 ug/L

RT: 3.121 min Scan# 647

Delta R.T. 0.000 min

Lab File: VV039086.D

Acq: 15 Sep 2025 17:50

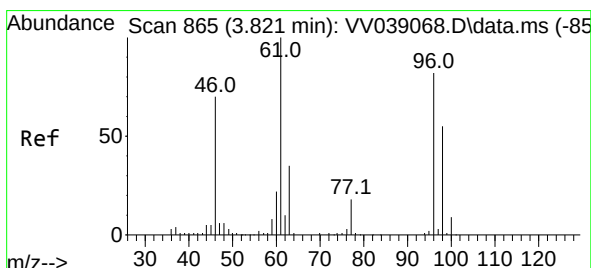
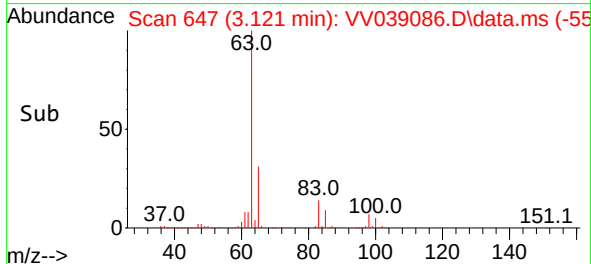
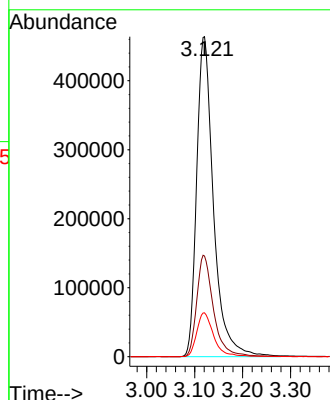
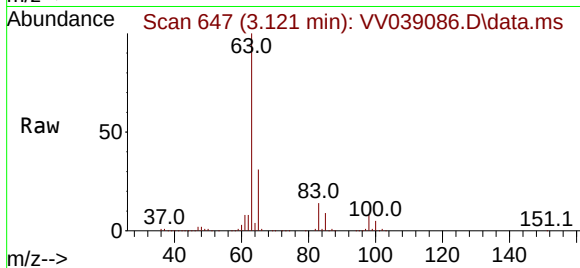
Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion: 63 Resp: 1131084

Ion	Ratio	Lower	Upper
63	100		
65	31.5	21.5	39.9
83	13.7	9.2	17.2



#22

cis-1,2-Dichloroethene

Concen: 144.346 ug/L

RT: 3.815 min Scan# 863

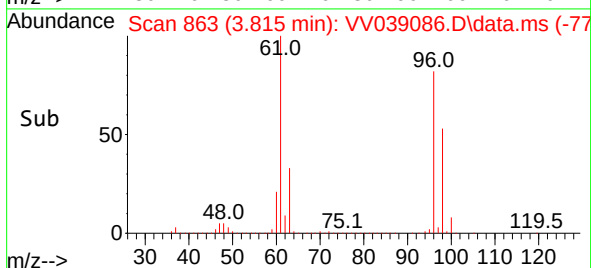
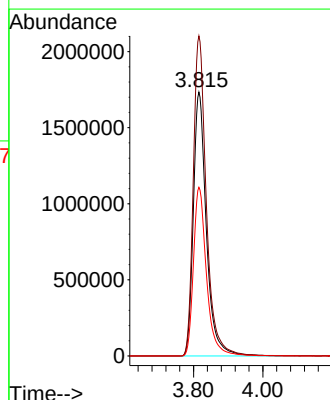
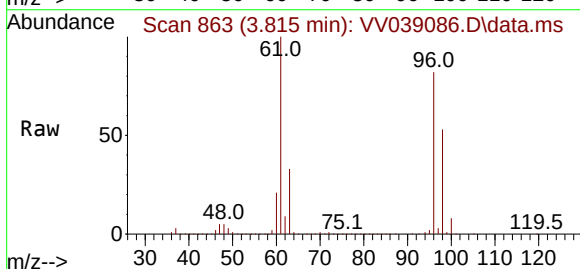
Delta R.T. -0.006 min

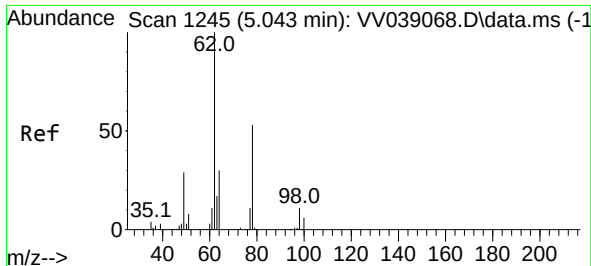
Lab File: VV039086.D

Acq: 15 Sep 2025 17:50

Tgt Ion: 96 Resp: 4542632

Ion	Ratio	Lower	Upper
96	100		
61	121.3	85.4	158.6
98	63.9	46.6	86.6





#27

1,2-Dichloroethane

Concen: 7.087 ug/L

RT: 5.043 min Scan# 1245

Delta R.T. 0.000 min

Lab File: VV039086.D

Acq: 15 Sep 2025 17:50

Instrument :

MSVOA_V

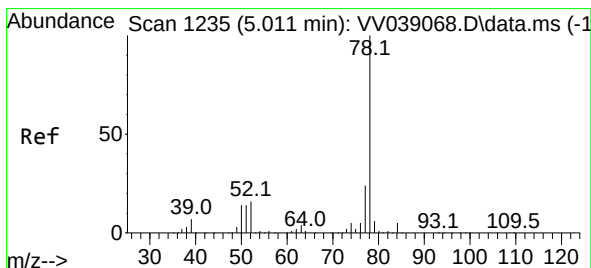
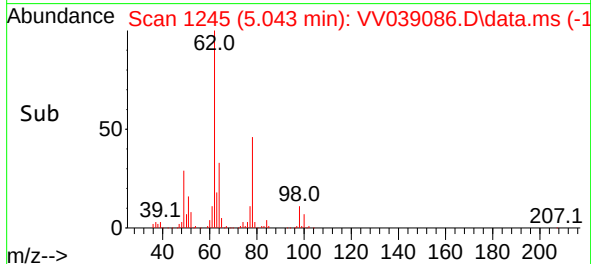
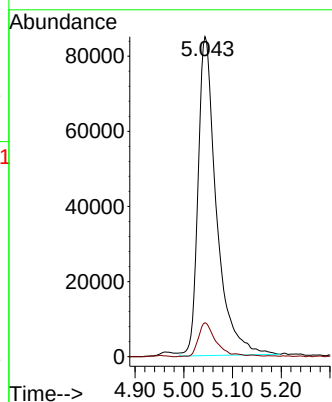
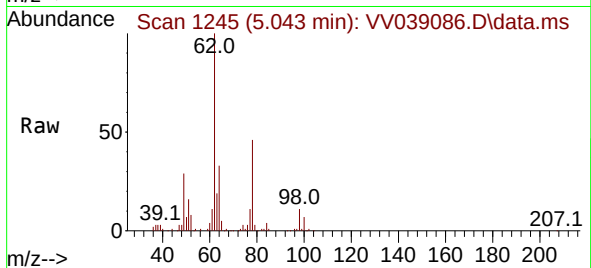
ClientSampleId :

Tgt Ion: 62 Resp: 222826

Ion Ratio Lower Upper

62 100

98 10.6 8.6 12.8



#33

Benzene

Concen: 3.044 ug/L

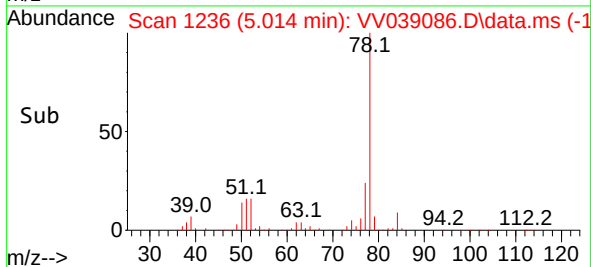
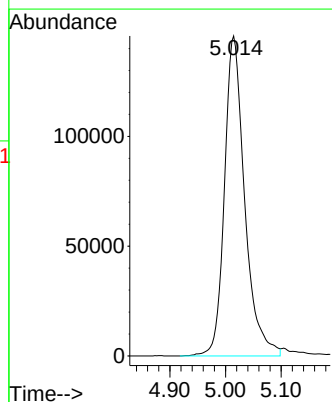
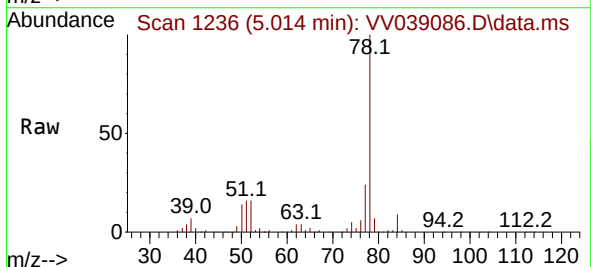
RT: 5.014 min Scan# 1236

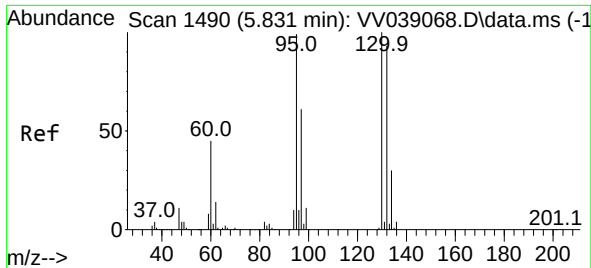
Delta R.T. 0.003 min

Lab File: VV039086.D

Acq: 15 Sep 2025 17:50

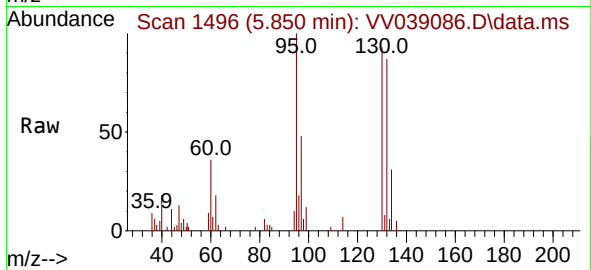
Tgt Ion: 78 Resp: 367843



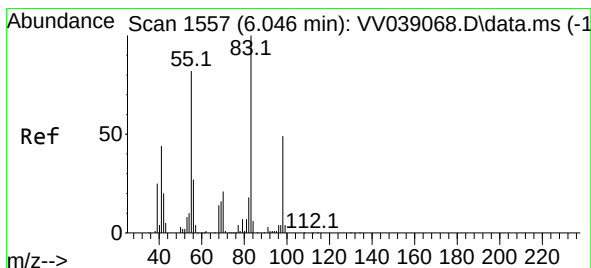
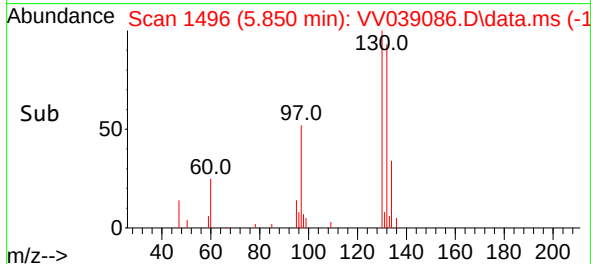
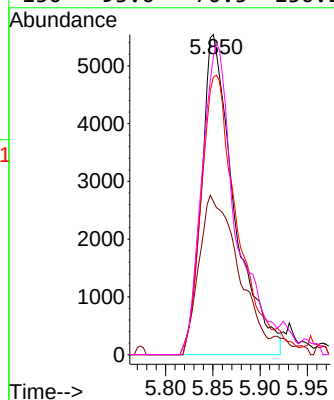


#34
Trichloroethene
Concen: 0.408 ug/L
RT: 5.850 min Scan# 1490
Delta R.T. 0.019 min
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Instrument :
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ClientSampleId :

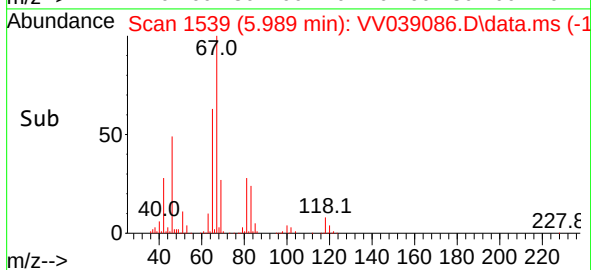
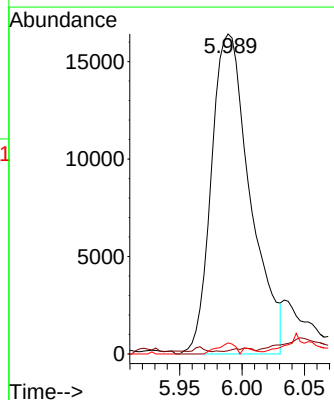
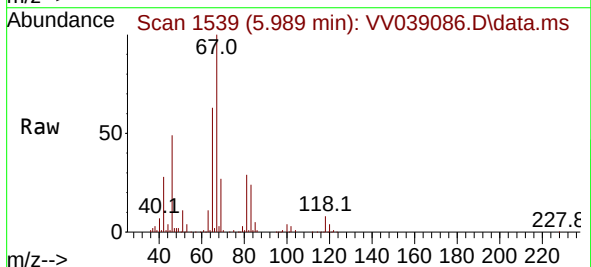


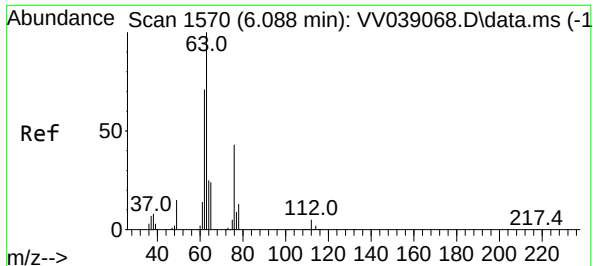
Tgt Ion:	95	Resp:	13295
Ion	Ratio	Lower	Upper
95	100		
97	48.0	43.3	80.5
132	86.7	65.5	121.7
130	93.0	70.5	130.9



#35
Methylcyclohexane
Concen: 0.698 ug/L
RT: 5.989 min Scan# 1539
Delta R.T. -0.058 min
Lab File: VV039086.D
Acq: 15 Sep 2025 17:50

Tgt Ion:	83	Resp:	35591
Ion	Ratio	Lower	Upper
83	100		
55	0.7	61.4	92.2#
98	1.6	38.2	57.4#





#37

1,2-Dichloropropane

Concen: 0.522 ug/L

RT: 5.989 min Scan# 1539

Delta R.T. -0.100 min

Lab File: VV039086.D

Acq: 15 Sep 2025 17:50

Instrument :

MSVOA_V

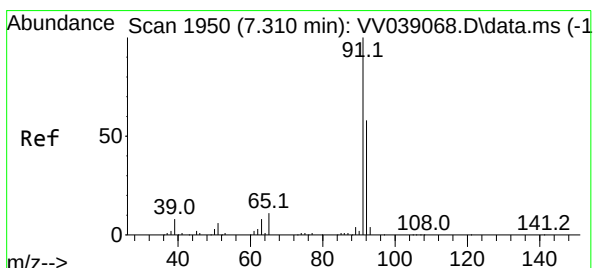
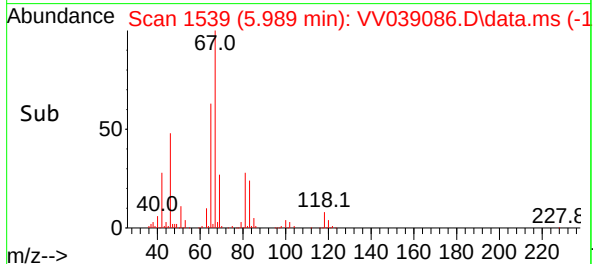
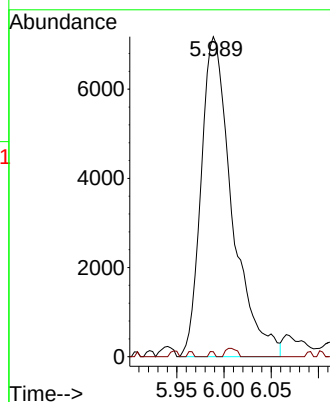
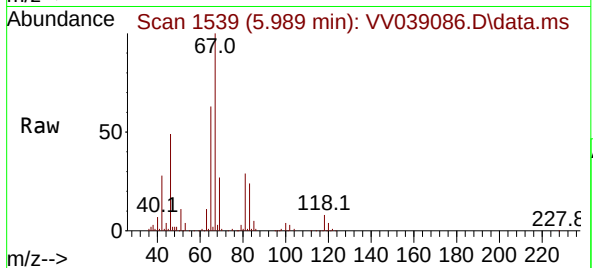
ClientSampleId :

Tgt Ion: 63 Resp: 16366

Ion Ratio Lower Upper

63 100

112 0.3 3.6 5.4#



#42

Toluene

Concen: 0.084 ug/L

RT: 7.329 min Scan# 1956

Delta R.T. 0.019 min

Lab File: VV039086.D

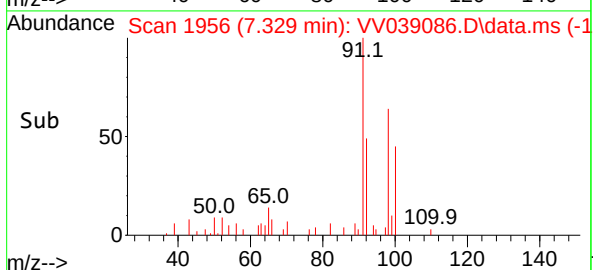
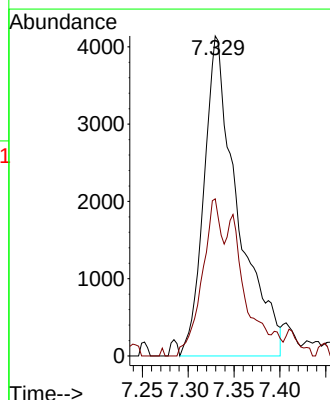
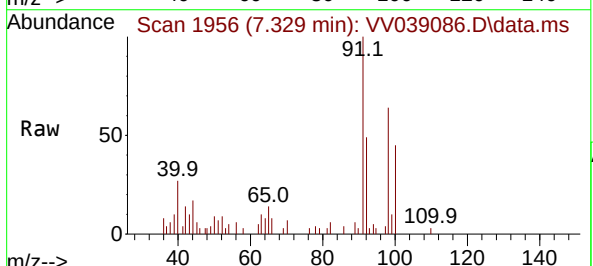
Acq: 15 Sep 2025 17:50

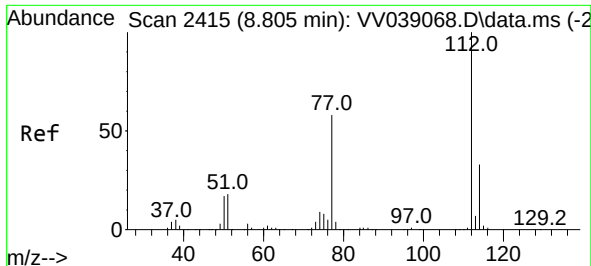
Tgt Ion: 91 Resp: 10619

Ion Ratio Lower Upper

91 100

92 49.1 40.5 75.1

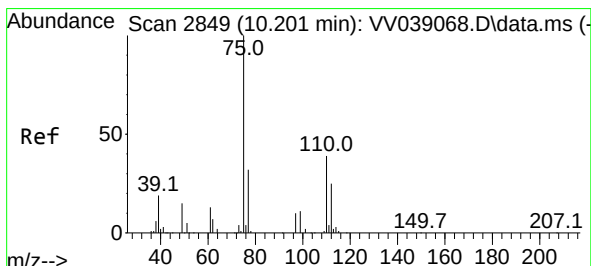
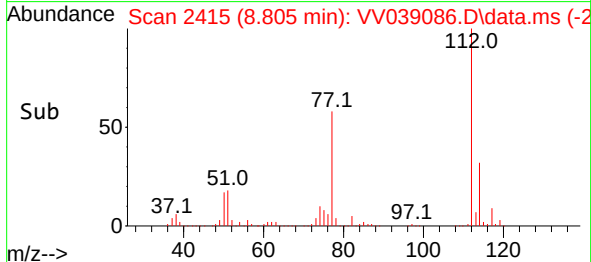
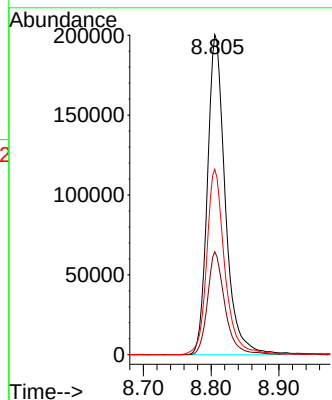
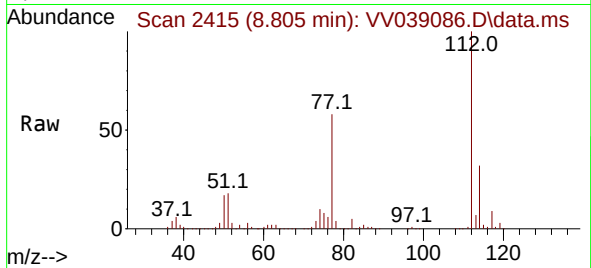




#51
Chlorobenzene
Concen: 4.499 ug/L
RT: 8.805 min Scan# 2415
Delta R.T. 0.000 min
Lab File: VV039086.D
Acq: 15 Sep 2025 17:50

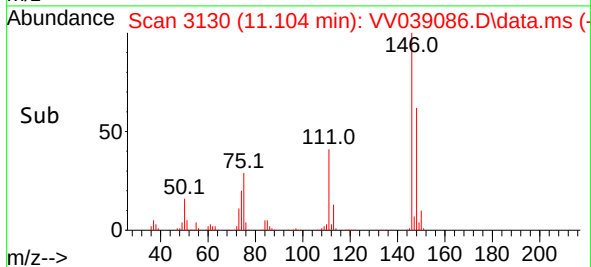
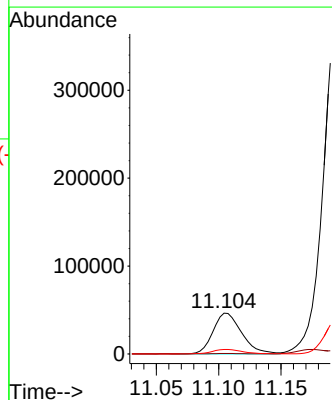
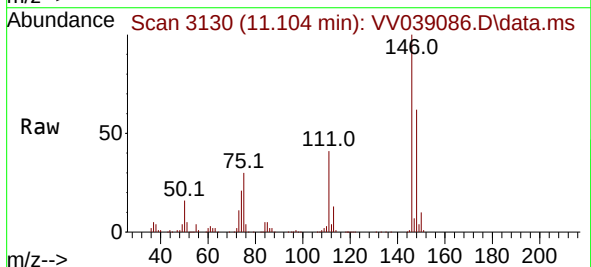
Instrument :
MSVOA_V
ClientSampleId :

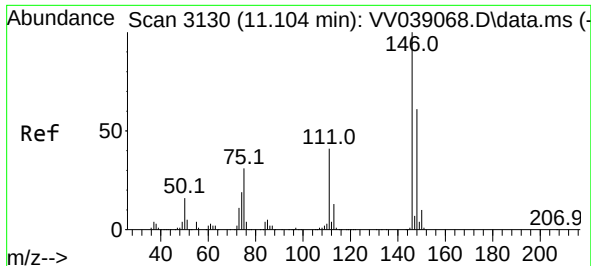
Tgt Ion:112 Resp: 365730
Ion Ratio Lower Upper
112 100
114 32.2 23.0 42.6
77 57.9 46.6 69.8



#61
1,2,3-Trichloropropane
Concen: 5.156 ug/L
RT: 11.104 min Scan# 3130
Delta R.T. 0.904 min
Lab File: VV039086.D
Acq: 15 Sep 2025 17:50

Tgt Ion: 75 Resp: 74219
Ion Ratio Lower Upper
75 100
77 0.0 25.1 37.7#
110 11.9 31.0 46.4#

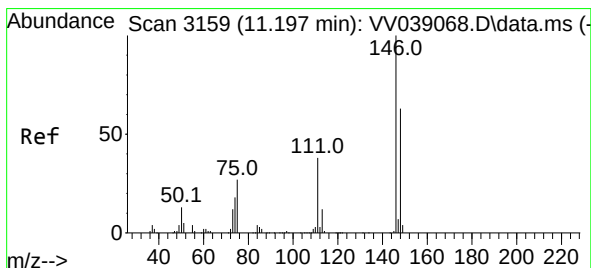
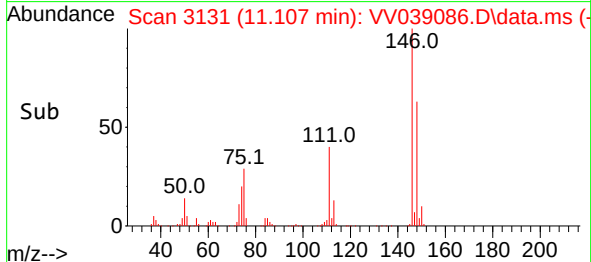
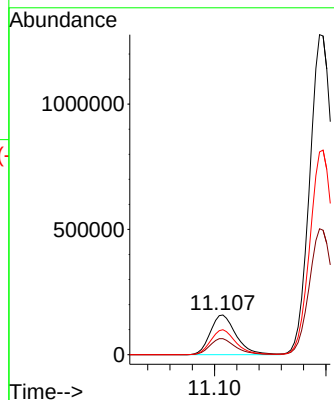
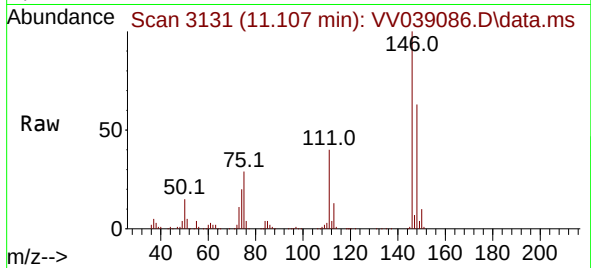




#64
1,3-Dichlorobenzene
Concen: 4.572 ug/L
RT: 11.107 min Scan# 3131
Delta R.T. 0.003 min
Lab File: VV039086.D
Acq: 15 Sep 2025 17:50

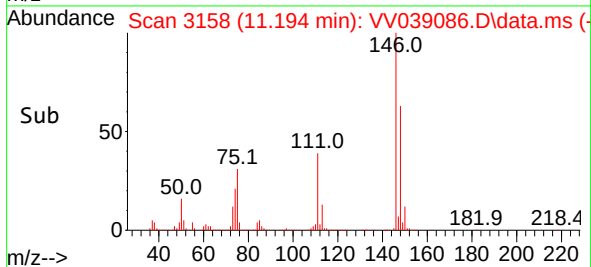
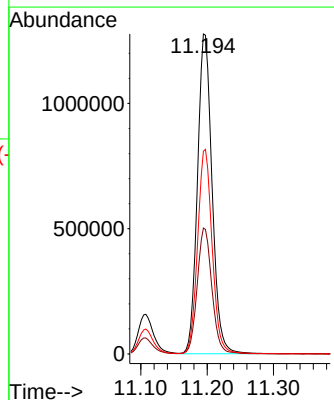
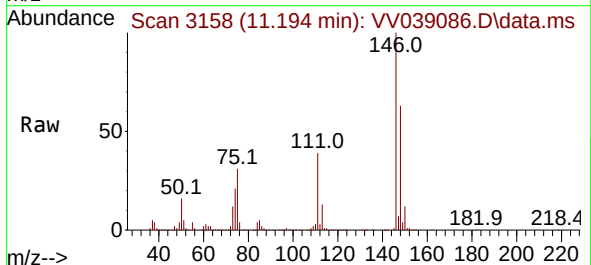
Instrument :
MSVOA_V
ClientSampleId :

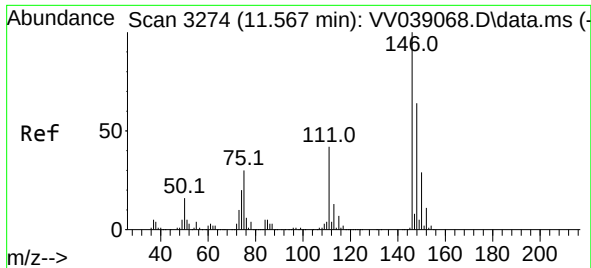
Tgt Ion:146 Resp: 255019
Ion Ratio Lower Upper
146 100
111 40.5 28.3 52.7
148 62.8 42.9 79.7



#65
1,4-Dichlorobenzene
Concen: 33.906 ug/L
RT: 11.194 min Scan# 3158
Delta R.T. -0.003 min
Lab File: VV039086.D
Acq: 15 Sep 2025 17:50

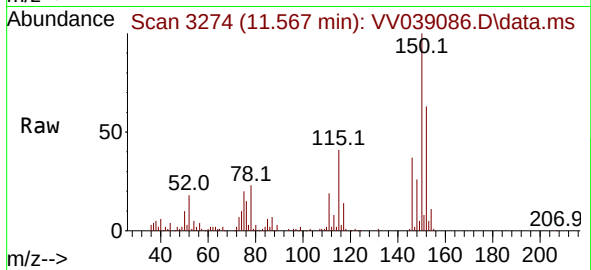
Tgt Ion:146 Resp: 1956480
Ion Ratio Lower Upper
146 100
111 39.3 27.2 50.6
148 63.3 43.8 81.4



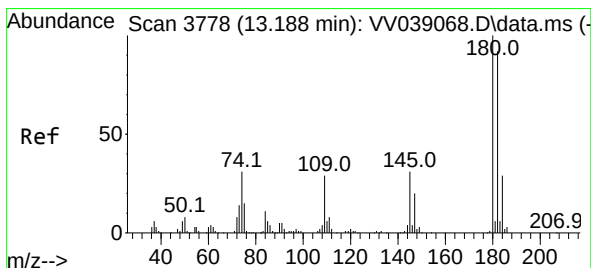
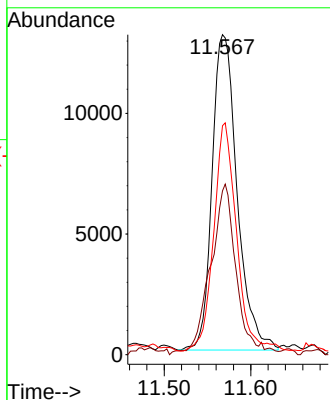
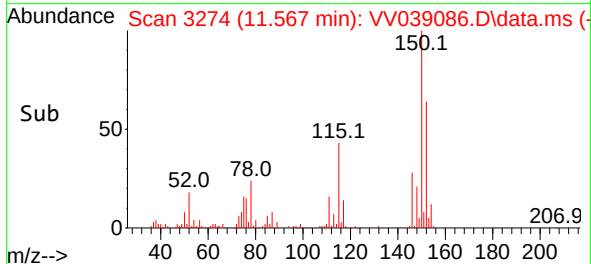


#67
1,2-Dichlorobenzene
Concen: 0.533 ug/L
RT: 11.567 min Scan# 31
Delta R.T. 0.000 min
Lab File: VV039086.D
Acq: 15 Sep 2025 17:50

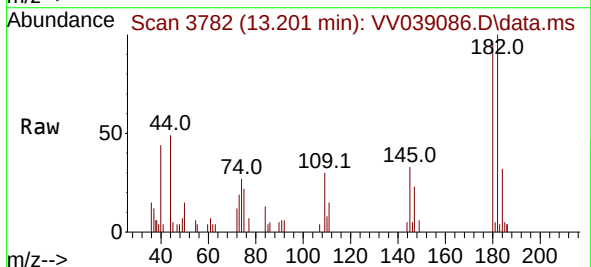
Instrument :
MSVOA_V
ClientSampleId :



Tgt Ion:146 Resp: 26332
Ion Ratio Lower Upper
146 100
111 51.2 33.4 50.2#
148 71.6 51.1 76.7



#70
1,2,4-trichlorobenzene
Concen: 0.212 ug/L
RT: 13.201 min Scan# 3782
Delta R.T. 0.013 min
Lab File: VV039086.D
Acq: 15 Sep 2025 17:50



Tgt Ion:180 Resp: 5829
Ion Ratio Lower Upper
180 100
182 100.4 73.2 109.8
145 35.1 25.0 37.4

