

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072925\
 Data File : VL042780.D
 Acq On : 29 Jul 2025 13:13
 Operator : SY/MD
 Sample : Q2712-03 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV3

Quant Time: Jul 30 01:10:42 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 24 05:24:41 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	149648	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	397221	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	391610	10.000	ppbv	0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	307367	9.911	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.100%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.496	85	2621	0.132	ppbv	97
3) Chlorodifluoromethane	1.434	51	369239	14.326	ppbv #	58
4) Chloromethane	1.531	50	315	0.039	ppbv	92
7) Chloroethane	1.492	64	702	0.230	ppbv #	51
8) Dichlorotetrafluoroethane	1.496	85	2621	0.161	ppbv #	20
9) Propene	1.622	41	2952	0.315	ppbv	90
10) Heptane	4.991	43	44714	1.770	ppbv	98
11) Trichlorofluoromethane	1.878	101	13031	0.639	ppbv	95
12) 1,1,2-Trichlorotrifluo...	1.878	101	13031	0.841	ppbv #	12
13) Ethanol	1.722	45	12033	16.490	ppbv #	31
15) Acetone	1.839	43	248629	12.032	ppbv	100
16) 1,3-Butadiene	1.599	39	1845	0.209	ppbv #	45
19) Isopropyl Alcohol	1.891	45	7294	0.664	ppbv #	1
20) Methylene Chloride	2.062	84	1414	0.217	ppbv #	81
23) Vinyl Acetate	2.476	43	6536	0.261	ppbv #	50
25) Ethyl Acetate	2.829	43	98142	2.146	ppbv #	79
26) Hexane	2.829	57	136934	6.825	ppbv #	41
27) Carbon Disulfide	2.153	76	1110	0.065	ppbv #	1
29) Chloroform	2.852	83	44204	1.426	ppbv	91
30) Cyclohexane	3.862	84	603	0.035	ppbv #	1
34) 2-Butanone	2.564	43	14645	0.520	ppbv	98
36) Benzene	3.658	78	2600	0.069	ppbv	97
39) 1,2-Dichloropropane	3.965	63	103361	7.438	ppbv #	22
41) Tetrahydrofuran	3.072	42	2839	0.198	ppbv	95
51) 2-Hexanone	7.438	43	88180	3.219	ppbv #	58
52) Tetrachloroethene	8.234	164	98048	6.283	ppbv	97
53) Toluene	6.943	91	75371	1.864	ppbv	99
57) Chlorobenzene	8.989	112	58434	1.542	ppbv #	34
58) Ethyl Benzene	9.361	91	25341	0.410	ppbv	98
59) m/p-Xylene	9.558	91	24768	0.501	ppbv #	30
60) o-Xylene	9.972	91	51884	1.051	ppbv	96
62) Isopropylbenzene	10.545	105	15964	0.219	ppbv	97
63) 1,1,2,2-Tetrachloroethane	9.956	83	17495	0.552	ppbv #	47
64) n-propylbenzene	10.998	120	6543	0.345	ppbv	67
65) tert-Butylbenzene	11.539	119	7148	0.110	ppbv #	44
66) Benzyl Chloride	11.636	91	626	0.118	ppbv #	65
67) sec-Butylbenzene	12.235	105	3512	0.038	ppbv	95
69) p-Isopropyltoluene	11.931	119	2442	0.033	ppbv #	91
71) 2-Chlorotoluene	10.995	91	27983	0.501	ppbv	83
72) 4-Ethyltoluene	11.131	105	14927	0.253	ppbv #	50
73) 1,3,5-Trimethylbenzene	11.209	105	32854	0.677	ppbv	99
74) 1,2,4-Trimethylbenzene	11.542	105	24049	0.454	ppbv #	61
79) Naphthalene	13.530	128	219	0.439	ppbv #	1

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Sample : Q2712-03 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

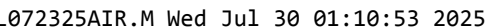
Instrument :
MSVOA_L
ClientSampleId :
SV3

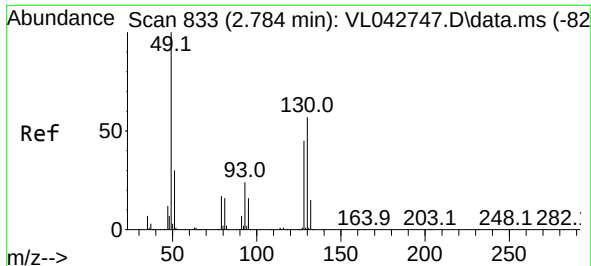
Quant Time: Jul 30 01:10:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) Naphthalene,2-methyl-	14.649	142	90	1.131	ppbv #	1
81) 1,2,4-Trichlorobenzene	13.449	180	22	0.436	ppbv #	12

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

Quant Time: Jul 30 01:10:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

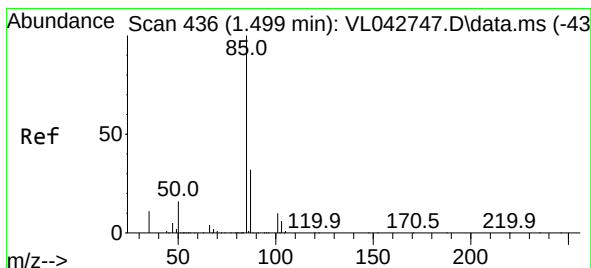
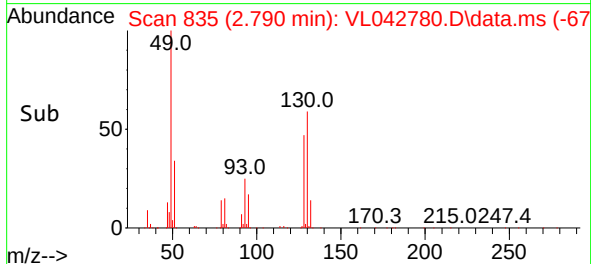
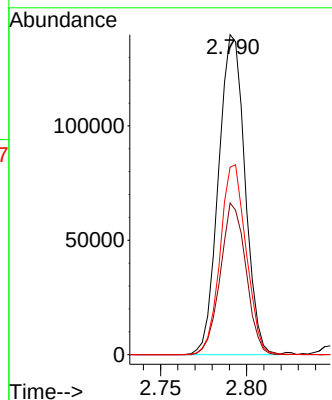
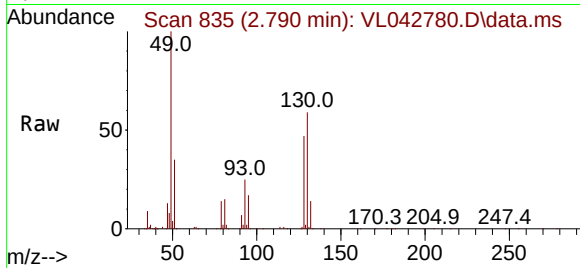




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 81
Delta R.T. 0.006 min
Lab File: VL042780.D
Acq: 29 Jul 2025 13:13

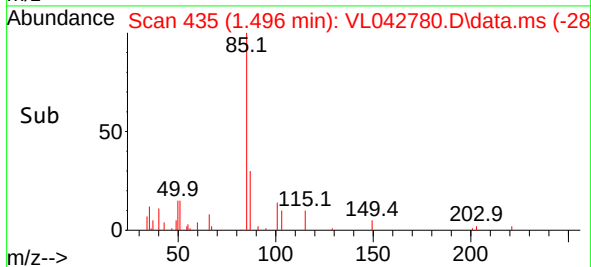
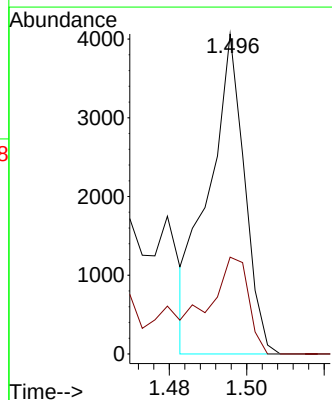
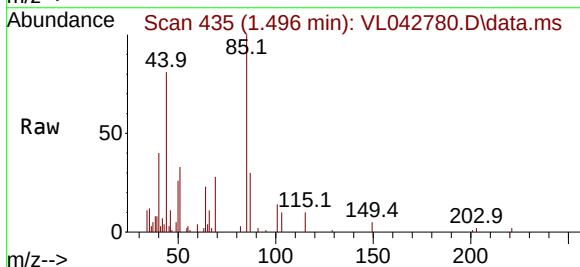
Instrument :
MSVOA_L
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SV3

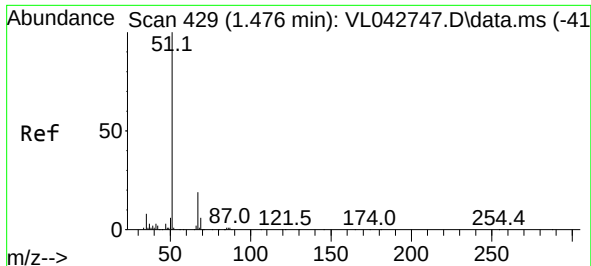
Tgt Ion: 49 Resp: 149648
Ion Ratio Lower Upper
49 100
128 45.8 23.6 71.0
130 58.5 30.3 90.8



#2
Dichlorodifluoromethane
Concen: 0.132 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042780.D
Acq: 29 Jul 2025 13:13

Tgt Ion: 85 Resp: 2621
Ion Ratio Lower Upper
85 100
87 30.3 25.4 38.2

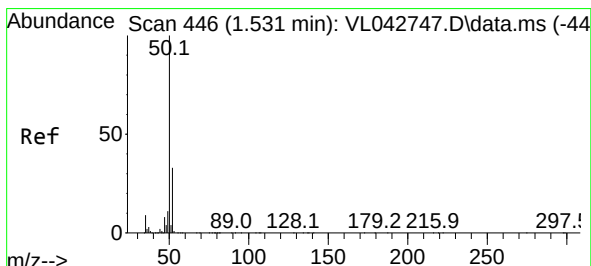
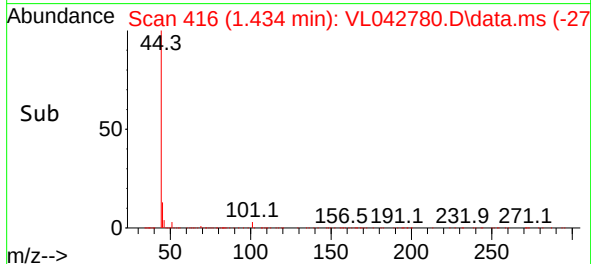
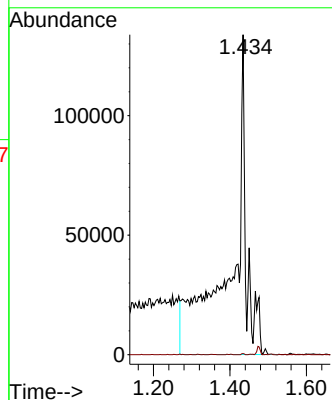
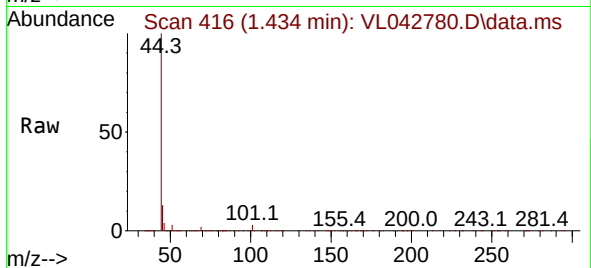




#3
Chlorodifluoromethane
Concen: 14.326 ppbv
RT: 1.434 min Scan# 416
Delta R.T. -0.042 min
Lab File: VL042780.D
Acq: 29 Jul 2025 13:13

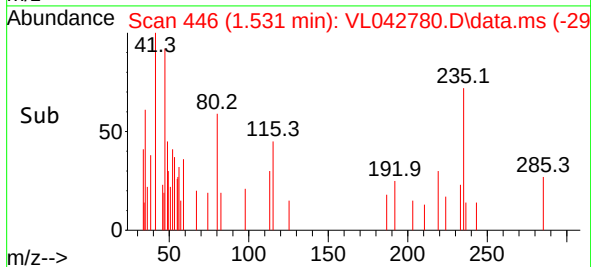
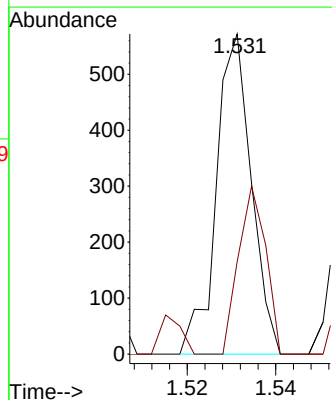
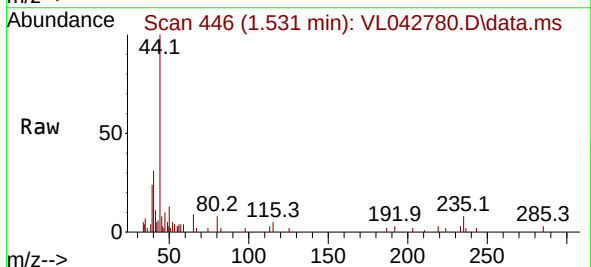
Instrument :
MSVOA_L
ClientSampleId :
SV3

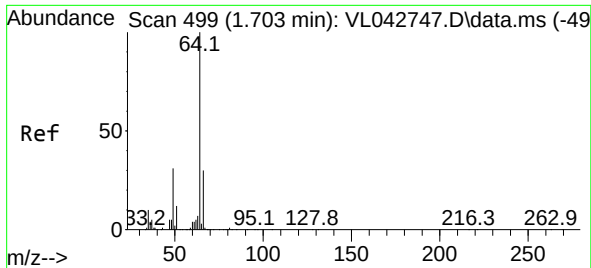
Tgt Ion: 51 Resp: 369239
Ion Ratio Lower Upper
51 100
67 0.1 15.0 22.6#



#4
Chloromethane
Concen: 0.039 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042780.D
Acq: 29 Jul 2025 13:13

Tgt Ion: 50 Resp: 315
Ion Ratio Lower Upper
50 100
52 28.8 26.6 40.0

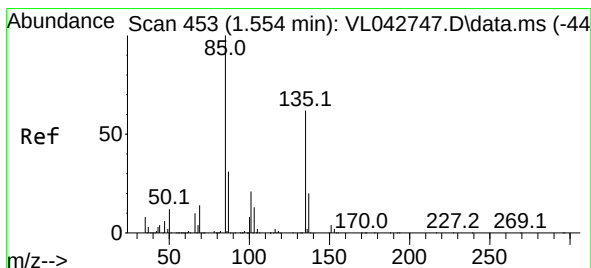
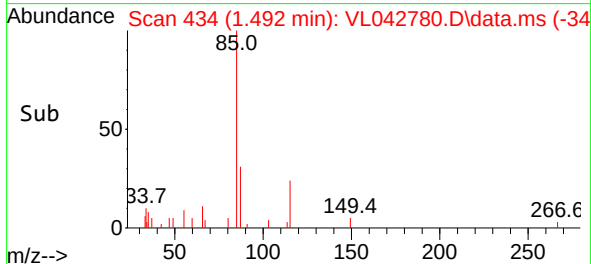
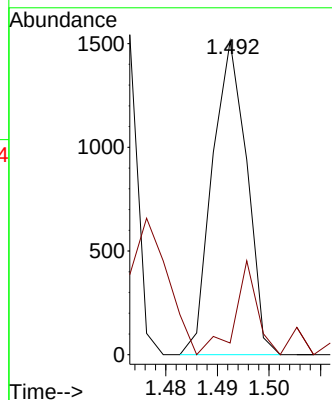
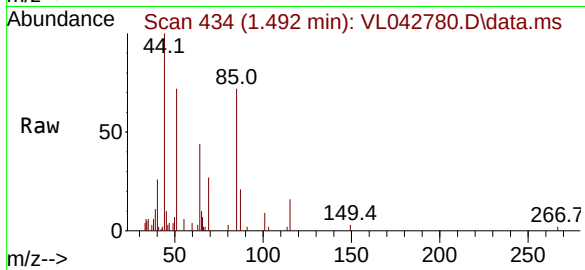




#7
Chloroethane
Concen: 0.230 ppbv
RT: 1.492 min Scan# 41
Delta R.T. -0.210 min
Lab File: VL042780.D
Acq: 29 Jul 2025 13:13

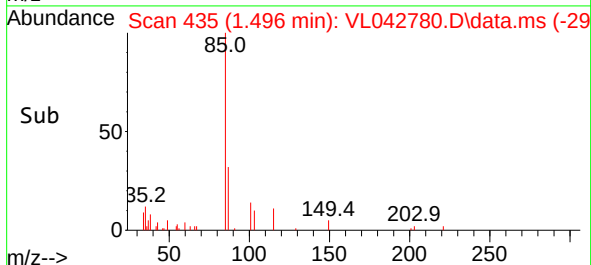
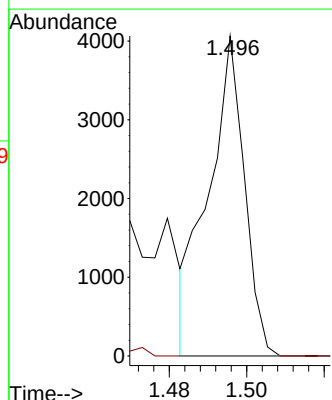
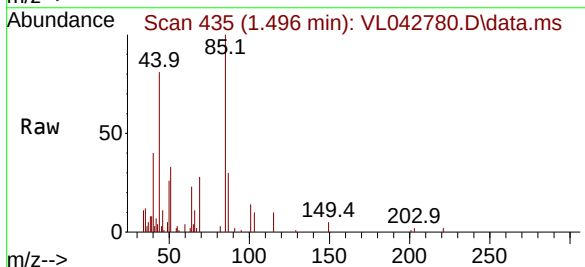
Instrument :
MSVOA_L
ClientSampleId :
SV3

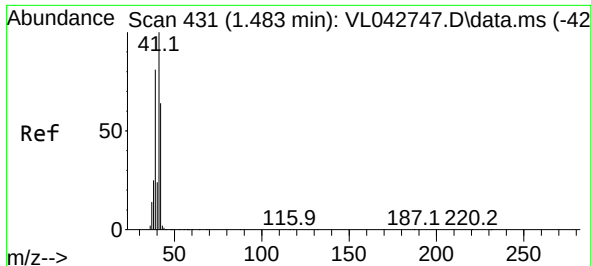
Tgt Ion: 64 Resp: 702
Ion Ratio Lower Upper
64 100
66 3.8 24.1 36.1#



#8
Dichlorotetrafluoroethane
Concen: 0.161 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.058 min
Lab File: VL042780.D
Acq: 29 Jul 2025 13:13

Tgt Ion: 85 Resp: 2621
Ion Ratio Lower Upper
85 100
135 1.1 50.6 76.0#





#9

Propene

Concen: 0.315 ppbv

RT: 1.622 min Scan# 41

Delta R.T. 0.139 min

Lab File: VL042780.D

Acq: 29 Jul 2025 13:13

Instrument :

MSVOA_L

ClientSampleId :

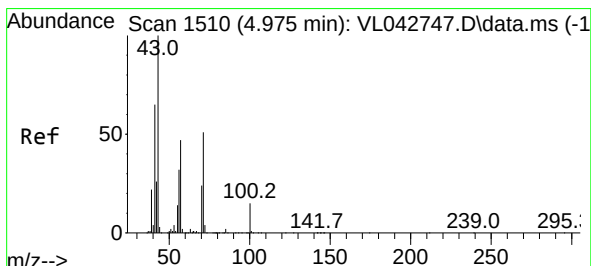
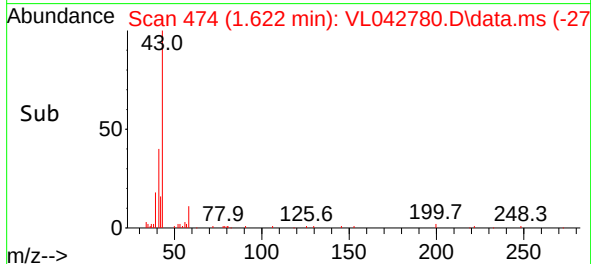
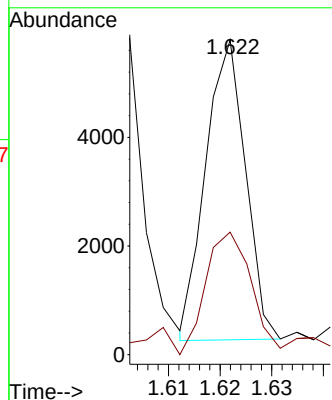
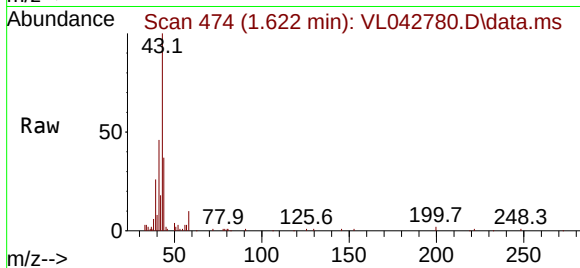
SV3

Tgt Ion: 41 Resp: 2952

Ion Ratio Lower Upper

41 100

42 74.8 53.2 79.8



#10

Heptane

Concen: 1.770 ppbv

RT: 4.991 min Scan# 1515

Delta R.T. 0.016 min

Lab File: VL042780.D

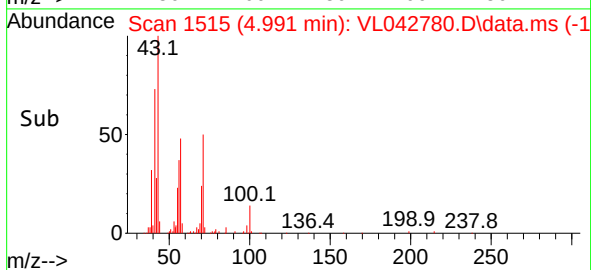
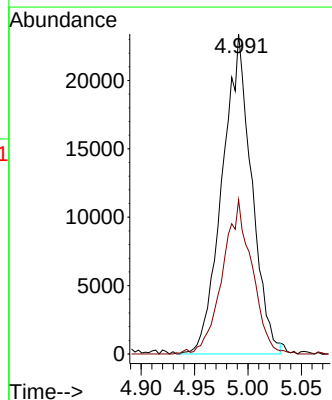
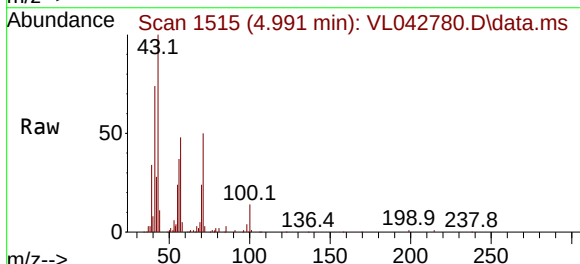
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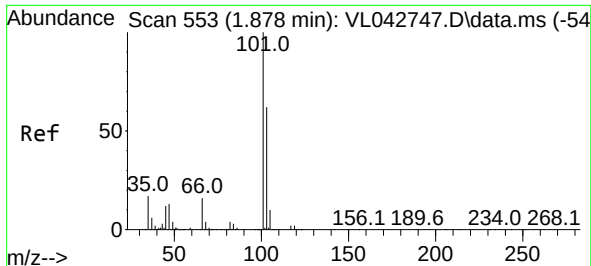
Tgt Ion: 43 Resp: 44714

Ion Ratio Lower Upper

43 100

57 48.4 39.9 59.9

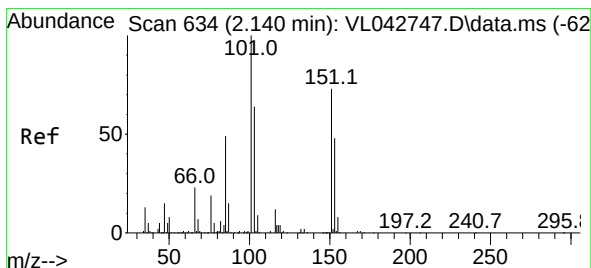
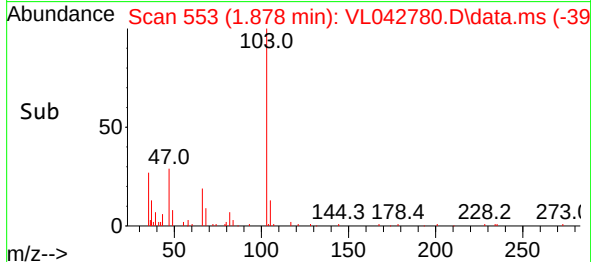
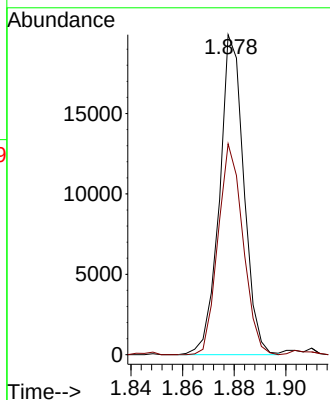
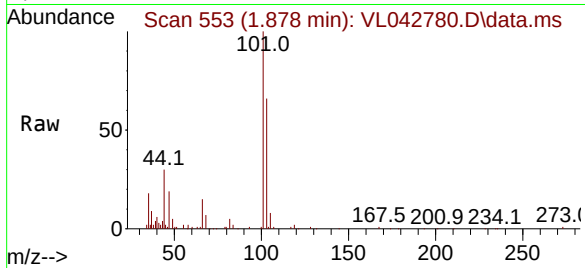




#11
 Trichlorofluoromethane
 Concen: 0.639 ppbv
 RT: 1.878 min Scan# 553
 Delta R.T. 0.000 min
 Lab File: VL042780.D
 Acq: 29 Jul 2025 13:13

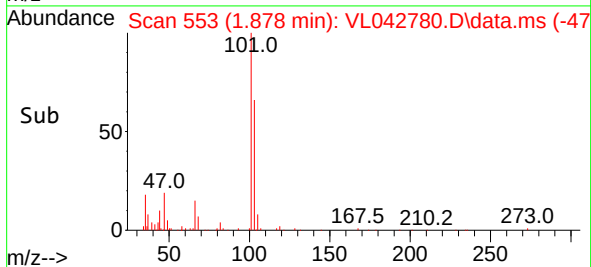
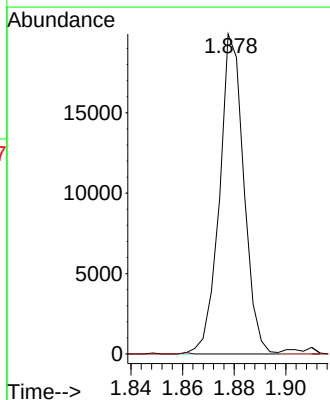
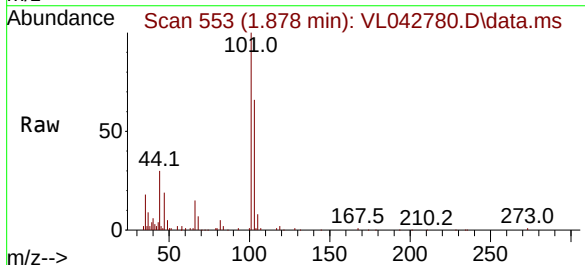
Instrument :
 MSVOA_L
 ClientSampleId :
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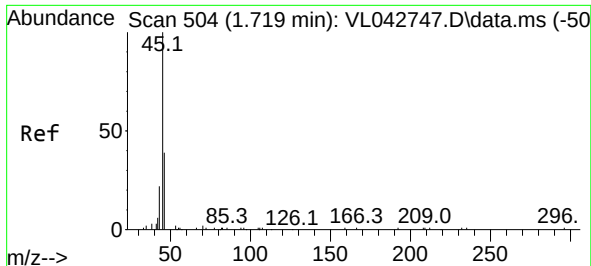
Tgt Ion:101 Resp: 13031
 Ion Ratio Lower Upper
 101 100
 103 65.9 49.6 74.4



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.841 ppbv
 RT: 1.878 min Scan# 553
 Delta R.T. -0.262 min
 Lab File: VL042780.D
 Acq: 29 Jul 2025 13:13

Tgt Ion:101 Resp: 13031
 Ion Ratio Lower Upper
 101 100
 151 0.4 60.5 90.7#

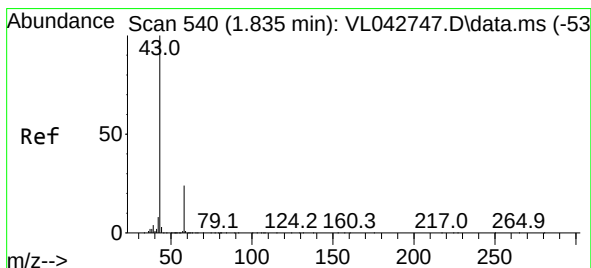
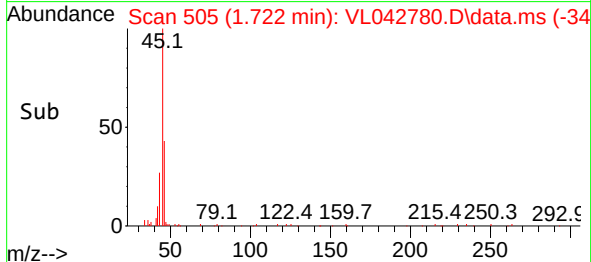
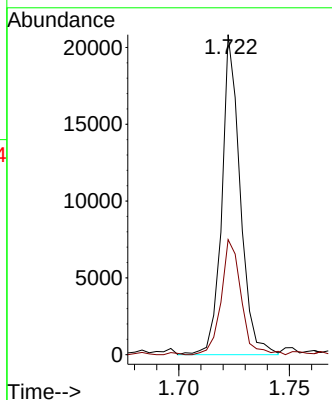
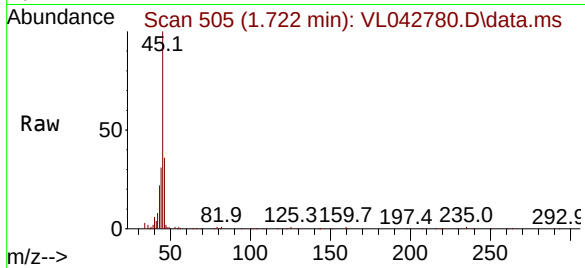




#13
 Ethanol
 Concen: 16.490 ppbv
 RT: 1.722 min Scan# 504
 Delta R.T. 0.003 min
 Lab File: VL042780.D
 Acq: 29 Jul 2025 13:13

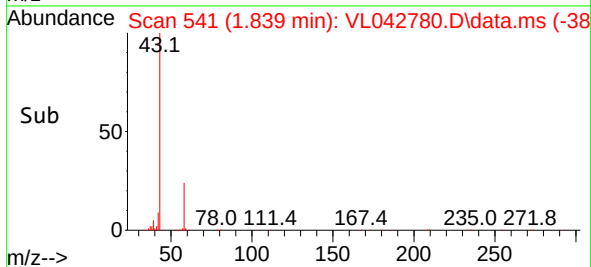
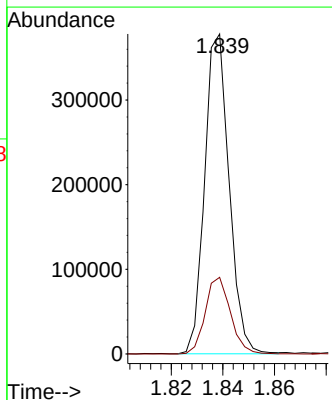
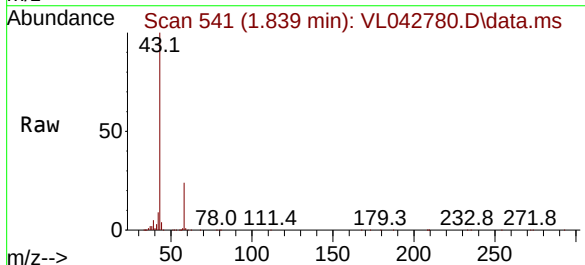
Instrument :
 MSVOA_L
 ClientSampleId :
 SV3

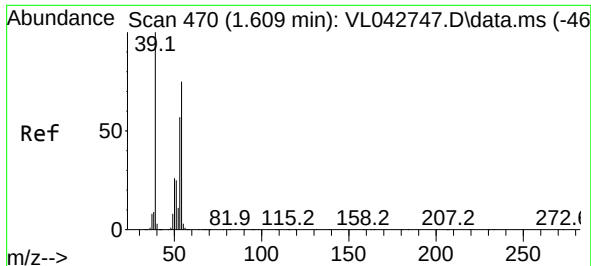
Tgt Ion: 45 Resp: 12033
 Ion Ratio Lower Upper
 45 100
 46 0.0 17.8 71.4#



#15
 Acetone
 Concen: 12.032 ppbv
 RT: 1.839 min Scan# 541
 Delta R.T. 0.003 min
 Lab File: VL042780.D
 Acq: 29 Jul 2025 13:13

Tgt Ion: 43 Resp: 248629
 Ion Ratio Lower Upper
 43 100
 58 24.7 19.8 29.8

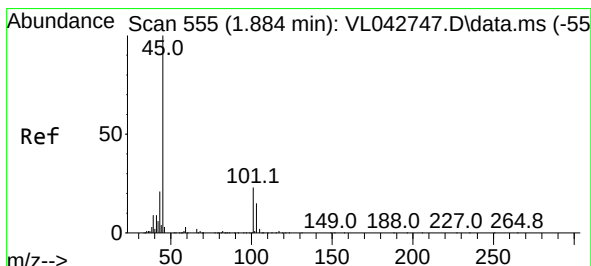
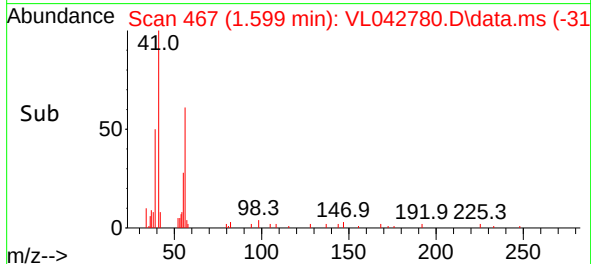
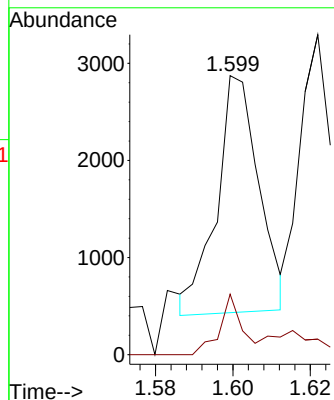
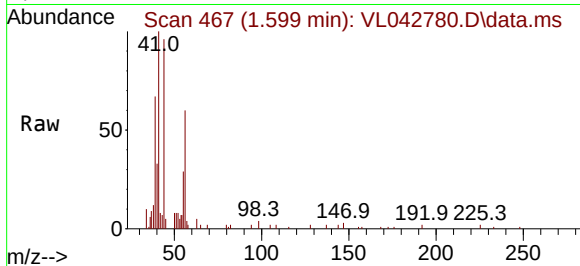




#16
1,3-Butadiene
Concen: 0.209 ppbv
RT: 1.599 min Scan# 410
Delta R.T. -0.010 min
Lab File: VL042780.D
Acq: 29 Jul 2025 13:13

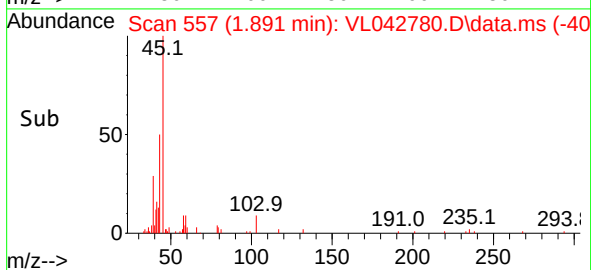
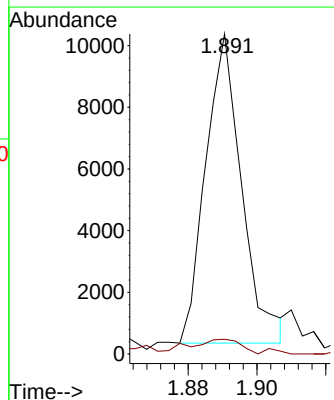
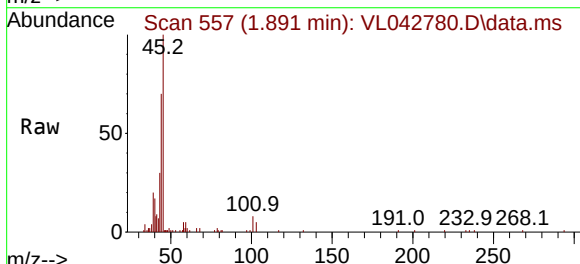
Instrument :
MSVOA_L
ClientSampleId :
SV3

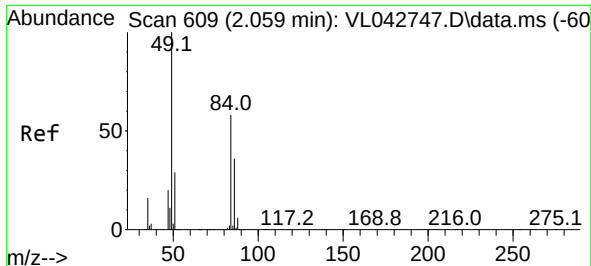
Tgt Ion: 39 Resp: 1845
Ion Ratio Lower Upper
39 100
54 24.0 54.5 81.7#



#19
Isopropyl Alcohol
Concen: 0.664 ppbv
RT: 1.891 min Scan# 557
Delta R.T. 0.007 min
Lab File: VL042780.D
Acq: 29 Jul 2025 13:13

Tgt Ion: 45 Resp: 7294
Ion Ratio Lower Upper
45 100
58 842.0 30.0 45.0#

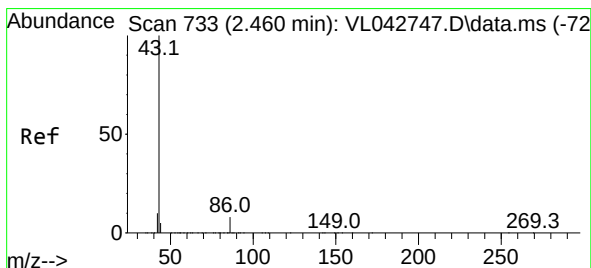
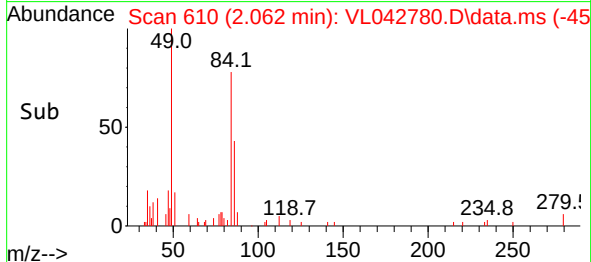
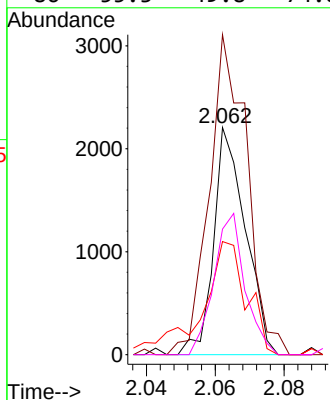
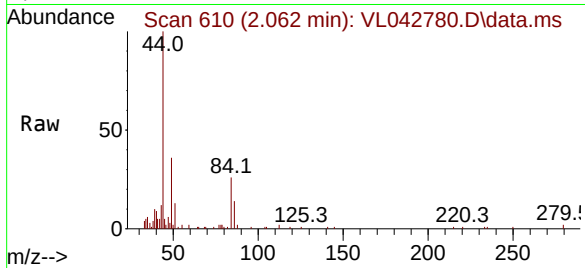




#20
Methylene Chloride
Concen: 0.217 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042780.D
Acq: 29 Jul 2025 13:13

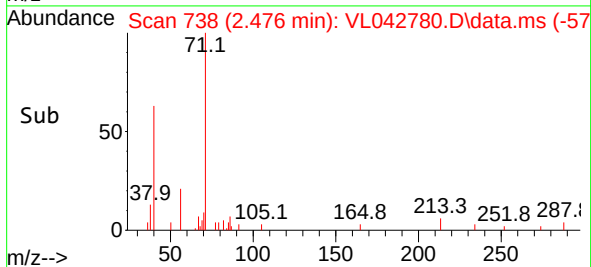
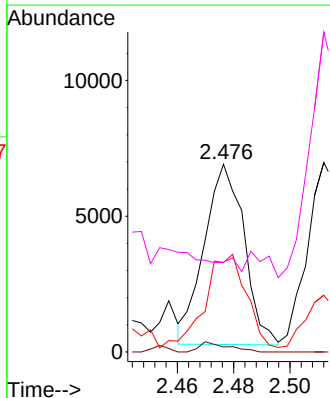
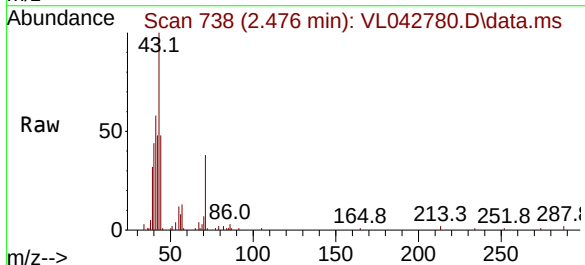
Instrument :
MSVOA_L
ClientSampleId :
SV3

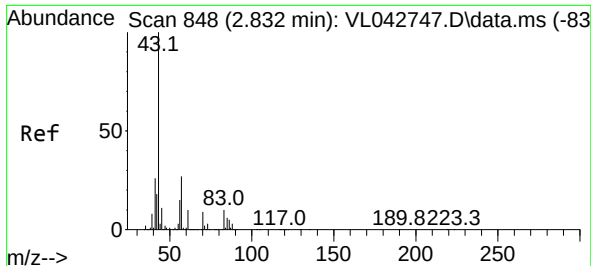
Tgt Ion: 84	Resp:	1414	
Ion	Ratio	Lower	Upper
84	100		
49	135.4	138.6	208.0#
51	49.8	40.6	61.0
86	55.3	49.8	74.8



#23
Vinyl Acetate
Concen: 0.261 ppbv
RT: 2.476 min Scan# 738
Delta R.T. 0.016 min
Lab File: VL042780.D
Acq: 29 Jul 2025 13:13

Tgt Ion: 43	Resp: 6536
Ion Ratio	Lower Upper
43 100	
86 3.6	6.1 9.1#
42 47.7	7.8 11.8#
44 8.6	4.4 6.6#

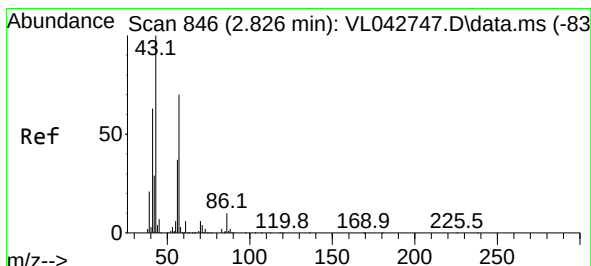
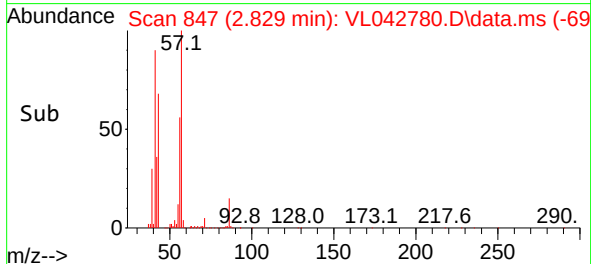
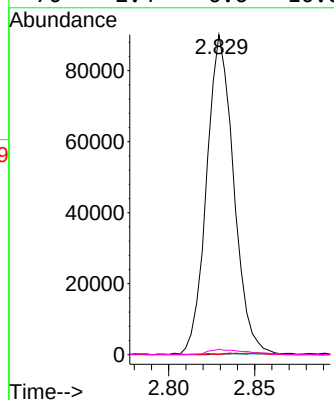
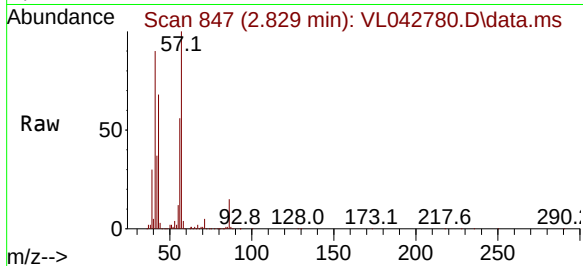




#25
Ethyl Acetate
Concen: 2.146 ppbv
RT: 2.829 min Scan# 847
Delta R.T. -0.003 min
Lab File: VL042780.D
Acq: 29 Jul 2025 13:13

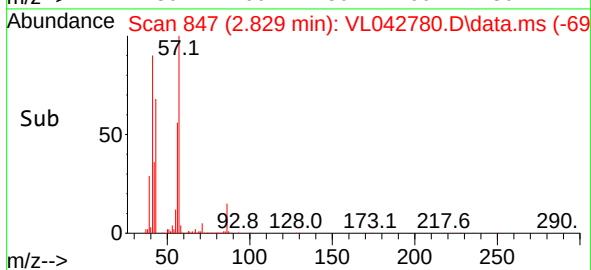
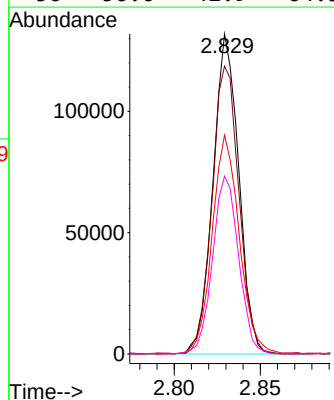
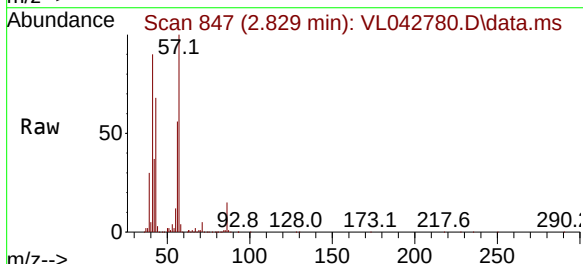
Instrument :
MSVOA_L
ClientSampleId :
SV3

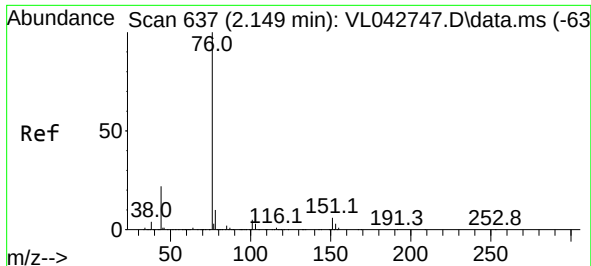
Tgt Ion: 43 Resp: 98142
Ion Ratio Lower Upper
43 100
45 0.9 7.8 11.6#
61 0.6 6.7 10.1#
70 2.4 6.6 10.0#



#26
Hexane
Concen: 6.825 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.003 min
Lab File: VL042780.D
Acq: 29 Jul 2025 13:13

Tgt Ion: 57 Resp: 136934
Ion Ratio Lower Upper
57 100
41 95.2 75.4 113.2
43 72.8 185.0 277.6#
56 56.6 42.9 64.3

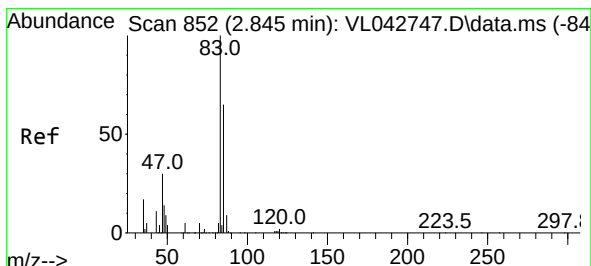
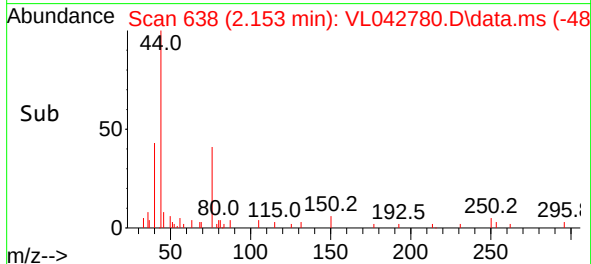
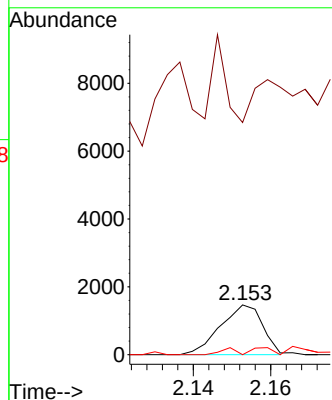
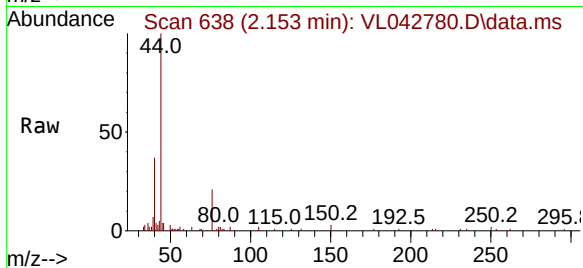




#27
Carbon Disulfide
Concen: 0.065 ppbv
RT: 2.153 min Scan# 611
Delta R.T. 0.003 min
Lab File: VL042780.D
Acq: 29 Jul 2025 13:13

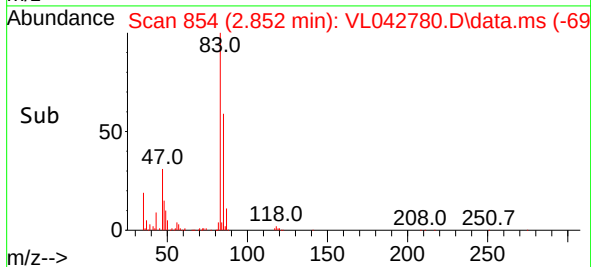
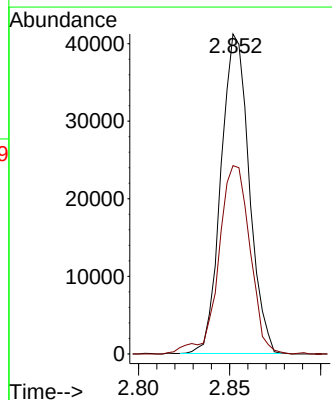
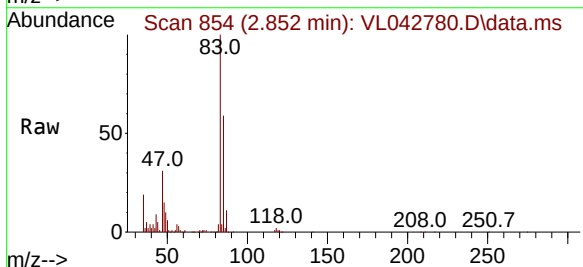
Instrument :
MSVOA_L
ClientSampleId :
SV3

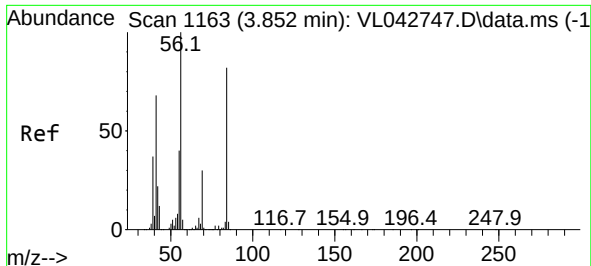
Tgt Ion: 76 Resp: 1110
Ion Ratio Lower Upper
76 100
44 1115.9 19.3 28.9#
78 21.4 9.9 14.9#



#29
Chloroform
Concen: 1.426 ppbv
RT: 2.852 min Scan# 854
Delta R.T. 0.007 min
Lab File: VL042780.D
Acq: 29 Jul 2025 13:13

Tgt Ion: 83 Resp: 44204
Ion Ratio Lower Upper
83 100
85 58.3 52.2 78.2

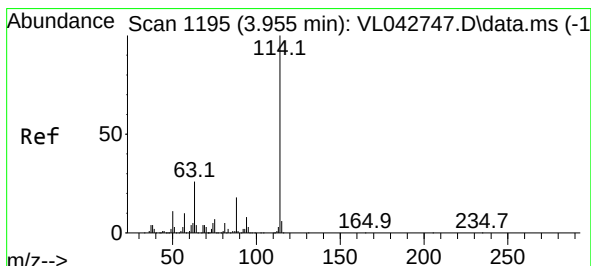
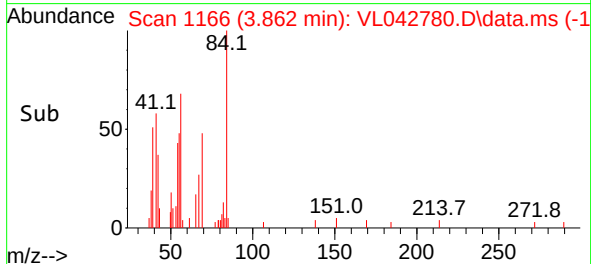
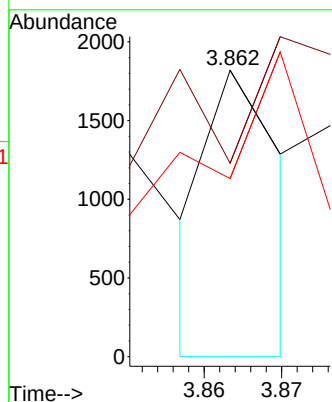
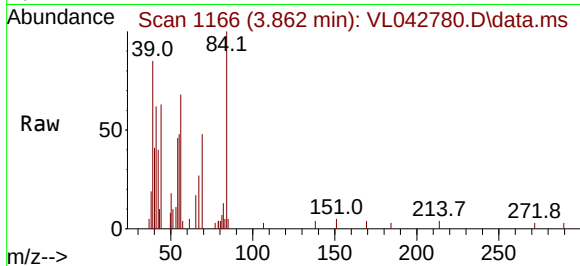




#30
Cyclohexane
Concen: 0.035 ppbv
RT: 3.862 min Scan# 1163
Delta R.T. 0.010 min
Lab File: VL042780.D
Acq: 29 Jul 2025 13:13

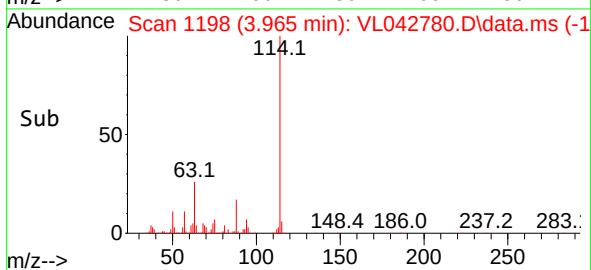
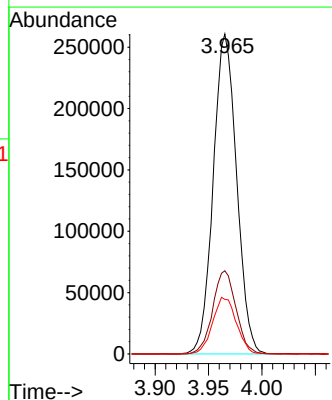
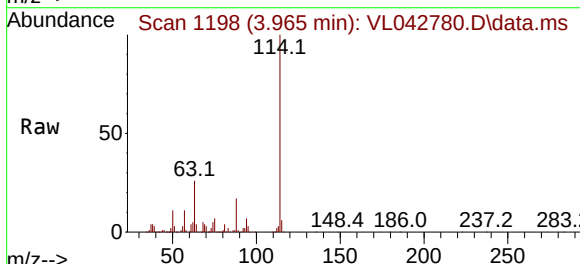
Instrument :
MSVOA_L
ClientSampleId :
SV3

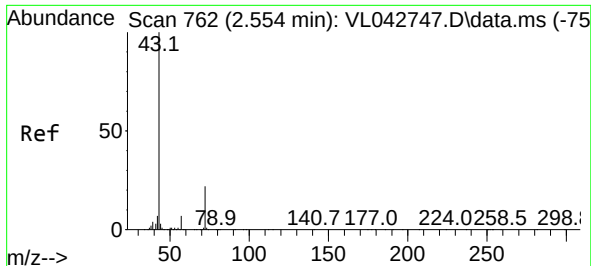
Tgt Ion: 84 Resp: 603
Ion Ratio Lower Upper
84 100
56 532.5 97.5 146.3#
41 487.6 67.2 100.8#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1198
Delta R.T. 0.010 min
Lab File: VL042780.D
Acq: 29 Jul 2025 13:13

Tgt Ion: 114 Resp: 397221
Ion Ratio Lower Upper
114 100
63 26.0 20.5 30.7
88 18.0 14.0 21.0





#34

2-Butanone

Concen: 0.520 ppbv

RT: 2.564 min Scan# 7

Delta R.T. 0.010 min

Lab File: VL042780.D

Acq: 29 Jul 2025 13:13

Instrument :

MSVOA_L

ClientSampleId :

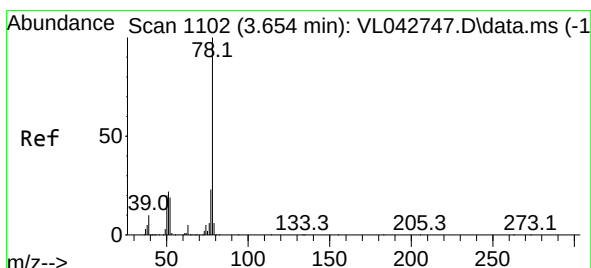
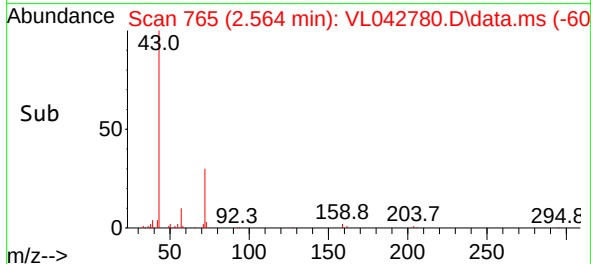
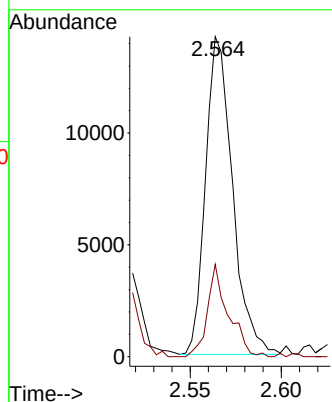
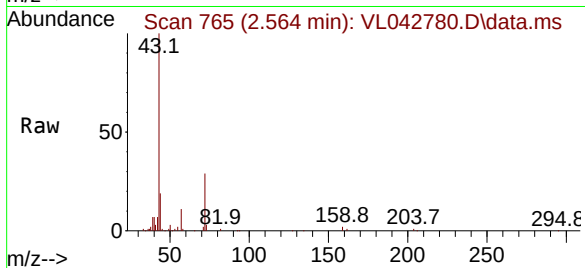
SV3

Tgt Ion: 43 Resp: 14645

Ion Ratio Lower Upper

43 100

72 22.7 17.4 26.0



#36

Benzene

Concen: 0.069 ppbv

RT: 3.658 min Scan# 1103

Delta R.T. 0.003 min

Lab File: VL042780.D

Acq: 29 Jul 2025 13:13

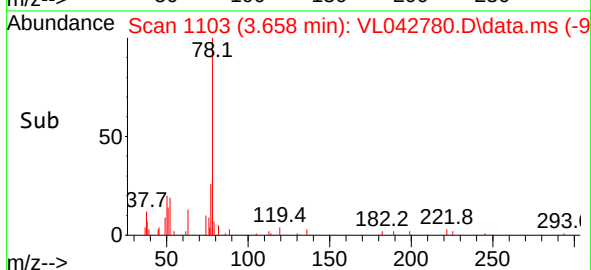
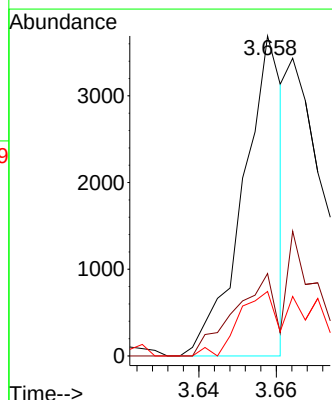
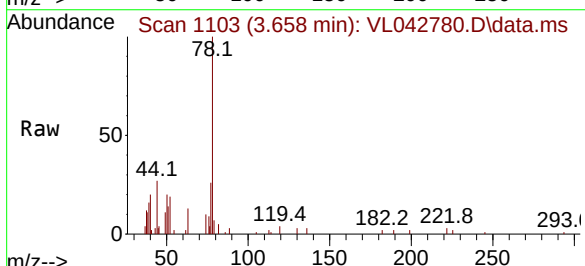
Tgt Ion: 78 Resp: 2600

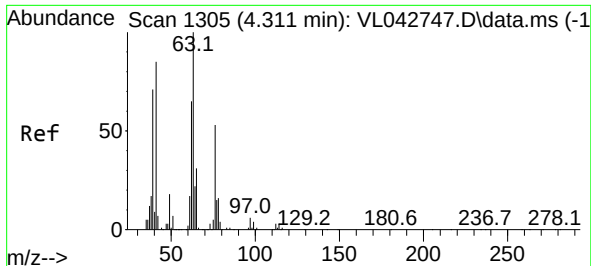
Ion Ratio Lower Upper

78 100

77 25.8 18.5 27.7

50 20.1 16.2 24.2





#39

1,2-Dichloropropane

Concen: 7.438 ppbv

RT: 3.965 min Scan# 1198

Delta R.T. -0.346 min

Lab File: VL042780.D

Acq: 29 Jul 2025 13:13

Instrument :

MSVOA_L

ClientSampleId :

SV3

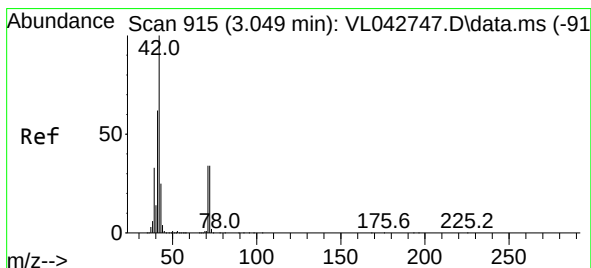
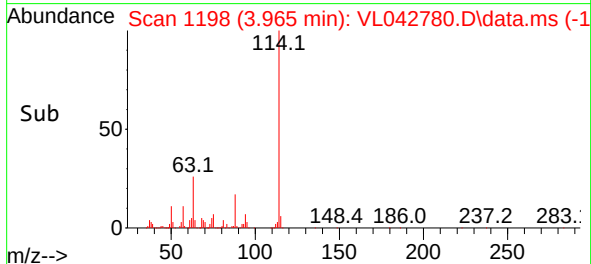
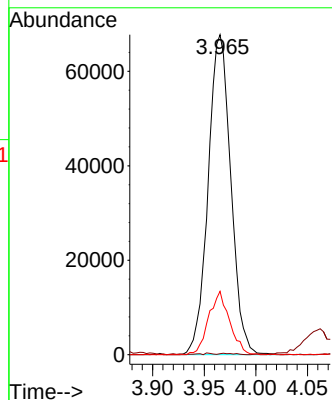
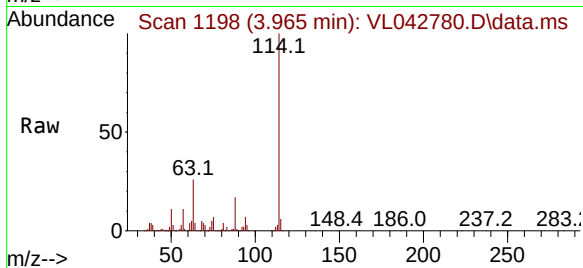
Tgt Ion: 63 Resp: 103361

Ion Ratio Lower Upper

63 100

41 0.0 68.2 102.4#

62 19.8 52.0 78.0#



#41

Tetrahydrofuran

Concen: 0.198 ppbv

RT: 3.072 min Scan# 922

Delta R.T. 0.023 min

Lab File: VL042780.D

Acq: 29 Jul 2025 13:13

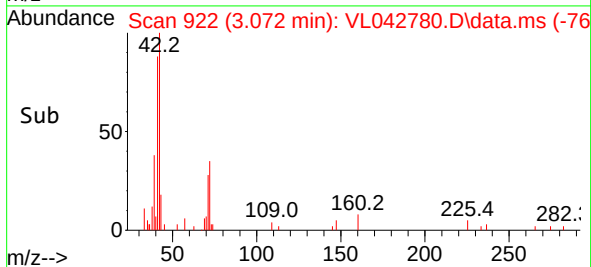
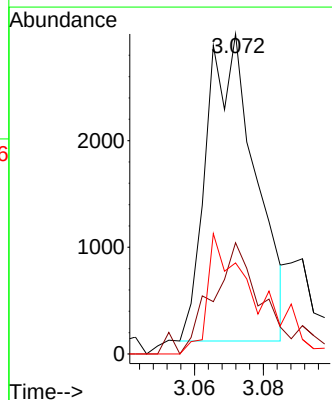
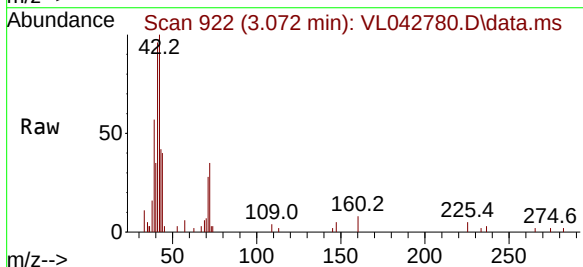
Tgt Ion: 42 Resp: 2839

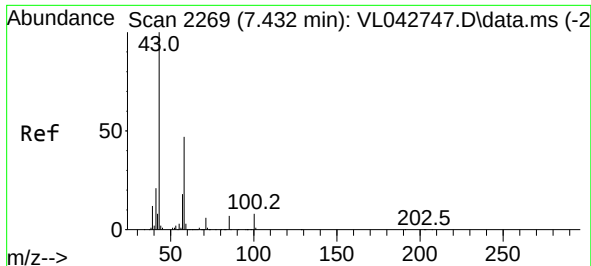
Ion Ratio Lower Upper

42 100

72 39.8 30.9 46.3

71 40.2 28.6 43.0

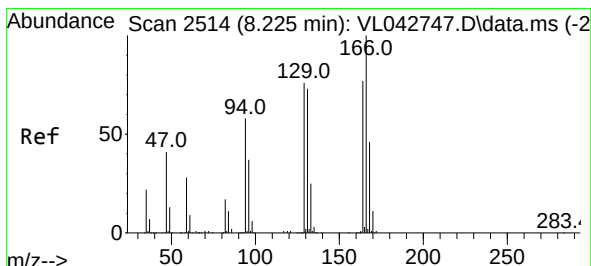
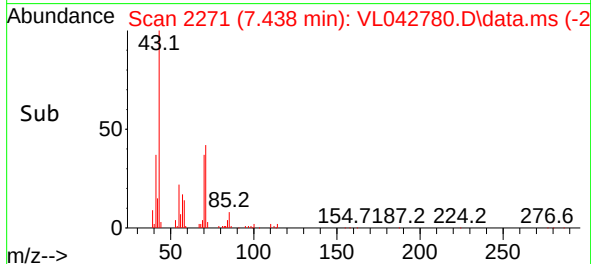
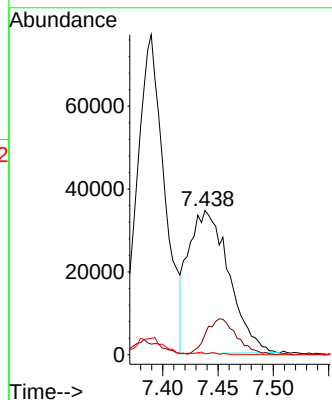
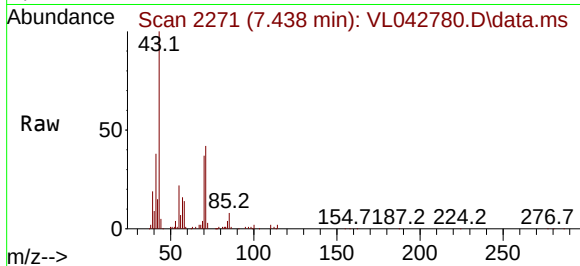




#51
2-Hexanone
Concen: 3.219 ppbv
RT: 7.438 min Scan# 21
Delta R.T. 0.007 min
Lab File: VL042780.D
Acq: 29 Jul 2025 13:13

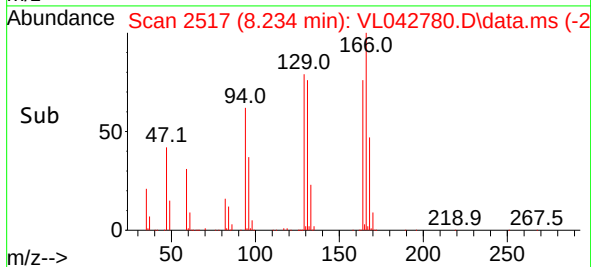
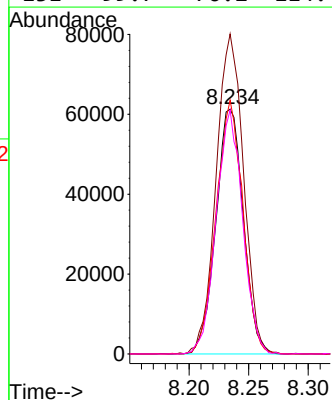
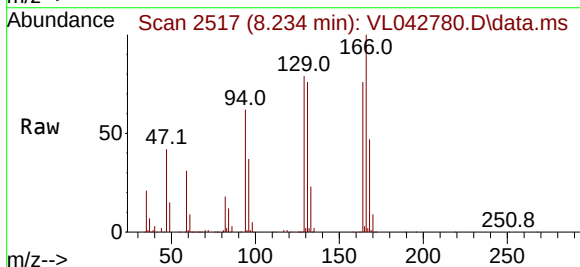
Instrument :
MSVOA_L
ClientSampleId :
SV3

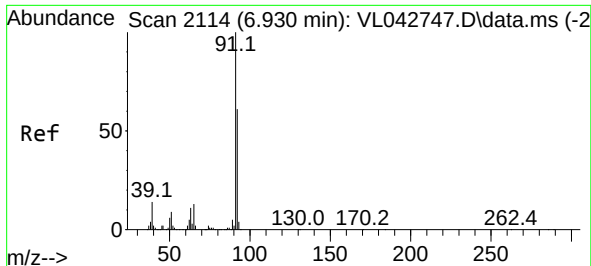
Tgt Ion: 43 Resp: 88180
Ion Ratio Lower Upper
43 100
58 19.4 38.0 57.0#
98 0.8 0.2 0.4#



#52
Tetrachloroethene
Concen: 6.283 ppbv
RT: 8.234 min Scan# 2517
Delta R.T. 0.010 min
Lab File: VL042780.D
Acq: 29 Jul 2025 13:13

Tgt Ion: 164 Resp: 98048
Ion Ratio Lower Upper
164 100
166 130.5 104.0 156.0
129 103.6 79.2 118.8
131 99.7 76.2 114.4

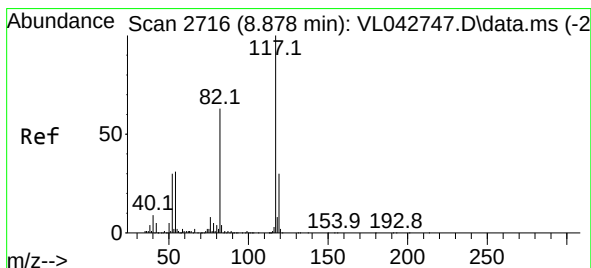
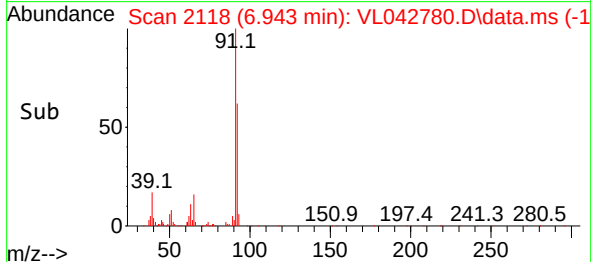
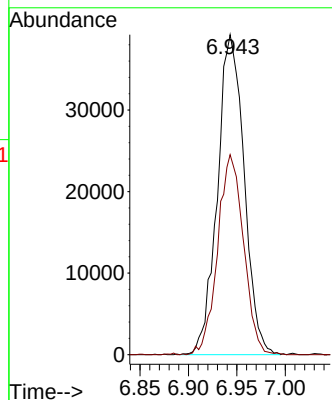
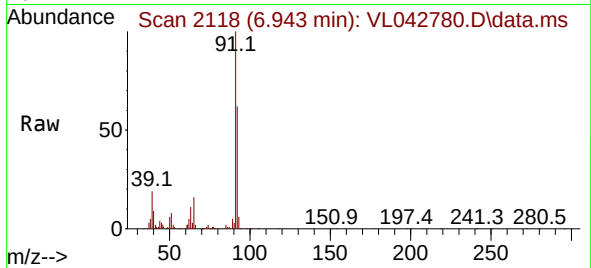




#53
Toluene
Concen: 1.864 ppbv
RT: 6.943 min Scan# 2114
Delta R.T. 0.013 min
Lab File: VL042780.D
Acq: 29 Jul 2025 13:13

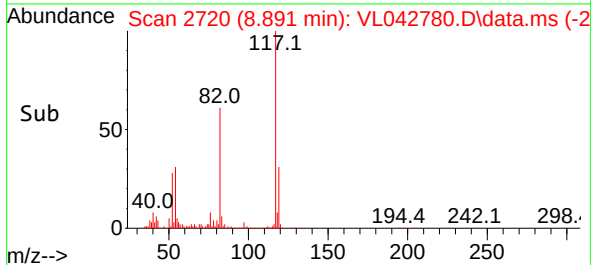
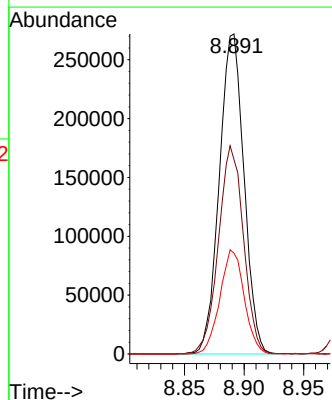
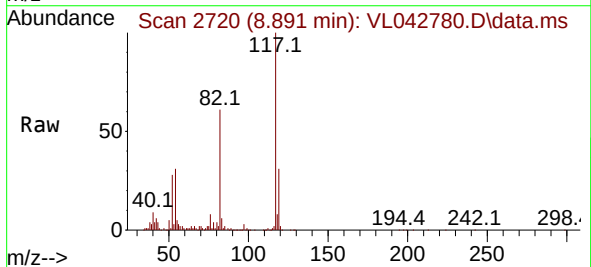
Instrument :
MSVOA_L
ClientSampleId :
SV3

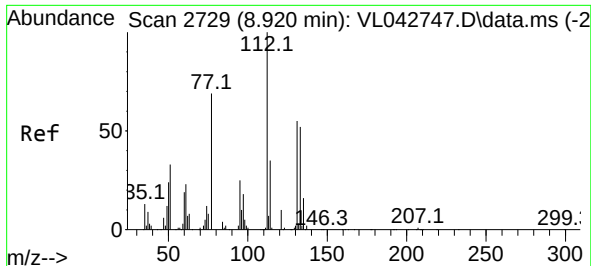
Tgt Ion: 91 Resp: 75371
Ion Ratio Lower Upper
91 100
92 60.6 48.0 72.0



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.891 min Scan# 2720
Delta R.T. 0.013 min
Lab File: VL042780.D
Acq: 29 Jul 2025 13:13

Tgt Ion: 117 Resp: 391610
Ion Ratio Lower Upper
117 100
82 66.1 53.3 79.9
119 32.1 25.8 38.6

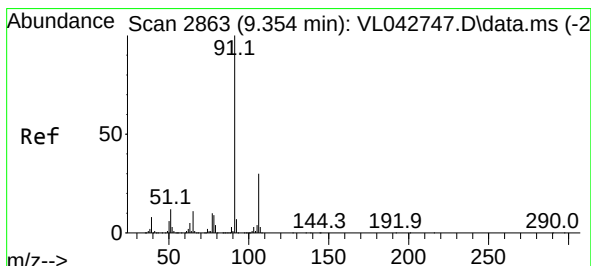
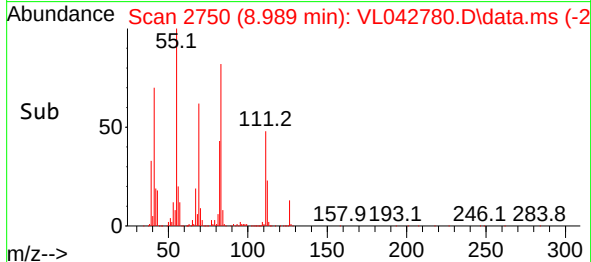
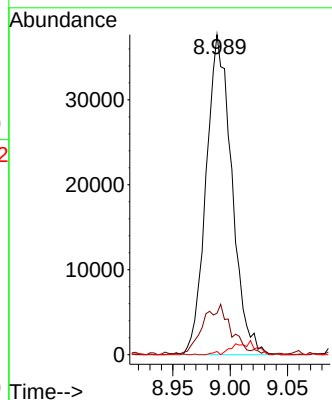
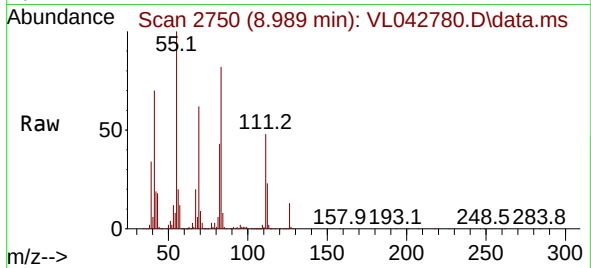




#57
Chlorobenzene
Concen: 1.542 ppbv
RT: 8.989 min Scan# 21
Delta R.T. 0.068 min
Lab File: VL042780.D
Acq: 29 Jul 2025 13:13

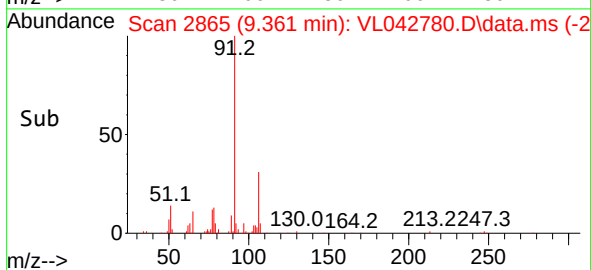
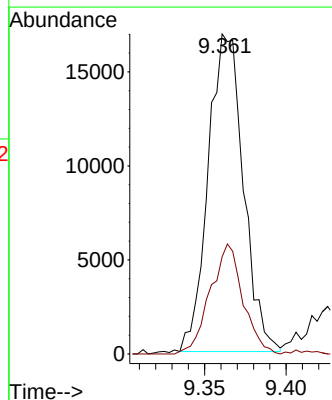
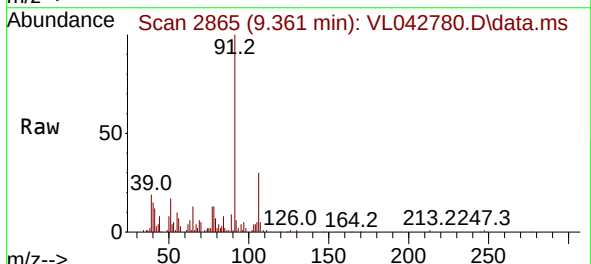
Instrument :
MSVOA_L
ClientSampleId :
SV3

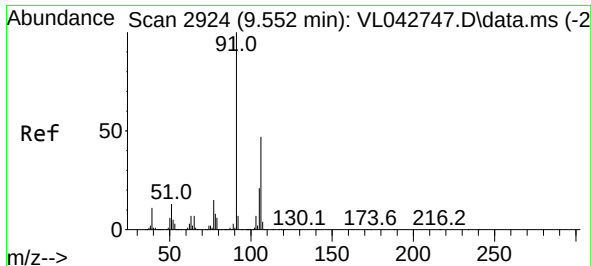
Tgt Ion:112 Resp: 58434
Ion Ratio Lower Upper
112 100
77 12.7 56.4 84.6#
114 1.2 31.2 38.2#



#58
Ethyl Benzene
Concen: 0.410 ppbv
RT: 9.361 min Scan# 2865
Delta R.T. 0.007 min
Lab File: VL042780.D
Acq: 29 Jul 2025 13:13

Tgt Ion: 91 Resp: 25341
Ion Ratio Lower Upper
91 100
106 30.6 23.8 35.6





#59

m/p-Xylene

Concen: 0.501 ppbv

RT: 9.558 min Scan# 2924

Delta R.T. 0.007 min

Lab File: VL042780.D

Acq: 29 Jul 2025 13:13

Instrument :

MSVOA_L

ClientSampleId :

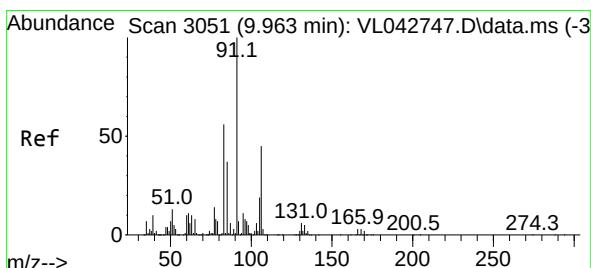
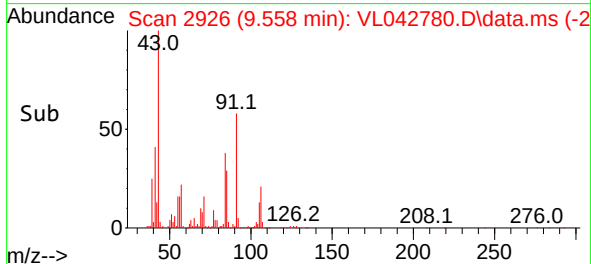
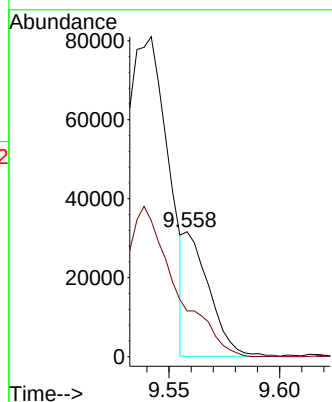
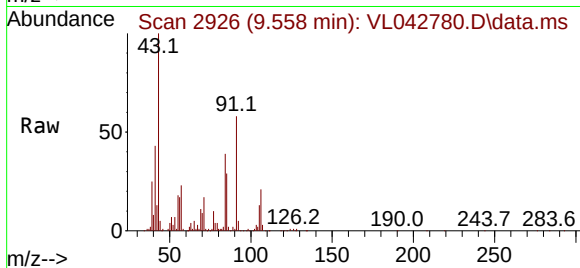
SV3

Tgt Ion: 91 Resp: 24768

Ion Ratio Lower Upper

91 100

106 0.0 37.4 56.2#



#60

o-Xylene

Concen: 1.051 ppbv

RT: 9.972 min Scan# 3054

Delta R.T. 0.010 min

Lab File: VL042780.D

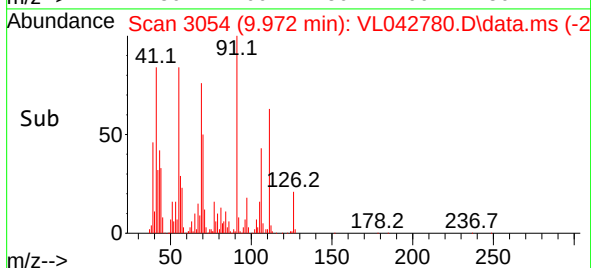
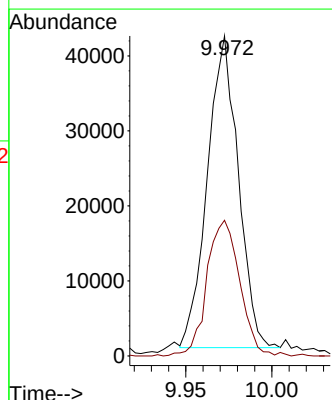
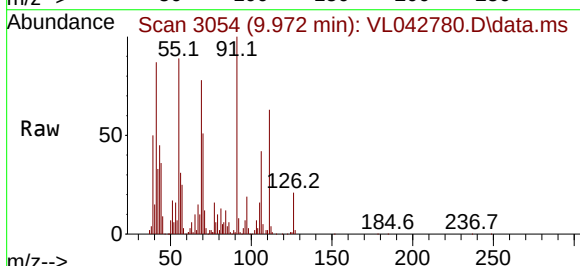
Acq: 29 Jul 2025 13:13

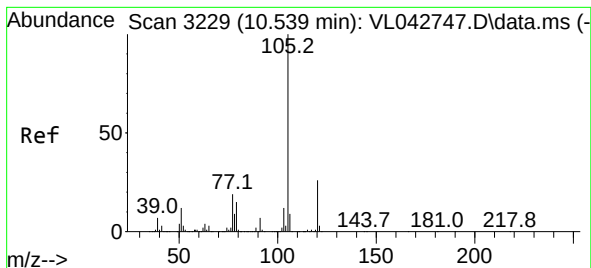
Tgt Ion: 91 Resp: 51884

Ion Ratio Lower Upper

91 100

106 46.6 22.0 66.0





#62

Isopropylbenzene

Concen: 0.219 ppbv

RT: 10.545 min Scan# 31

Delta R.T. 0.007 min

Lab File: VL042780.D

Acq: 29 Jul 2025 13:13

Instrument :

MSVOA_L

ClientSampleId :

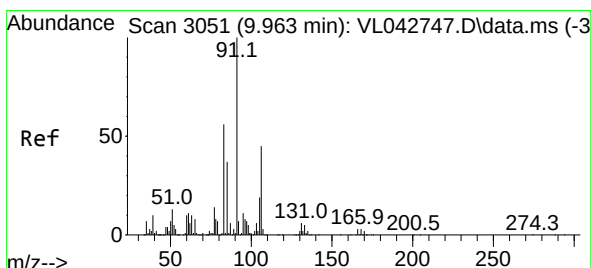
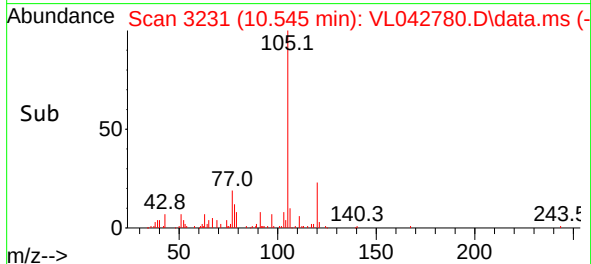
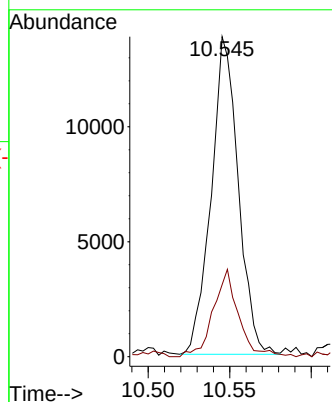
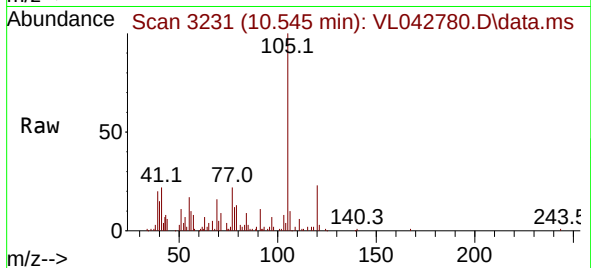
SV3

Tgt Ion:105 Resp: 15964

Ion Ratio Lower Upper

105 100

120 27.2 20.5 30.7



#63

1,1,2,2-Tetrachloroethane

Concen: 0.552 ppbv

RT: 9.956 min Scan# 3049

Delta R.T. -0.006 min

Lab File: VL042780.D

Acq: 29 Jul 2025 13:13

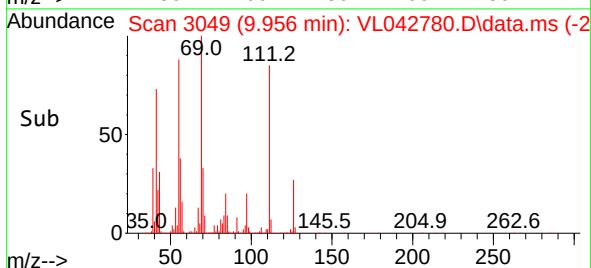
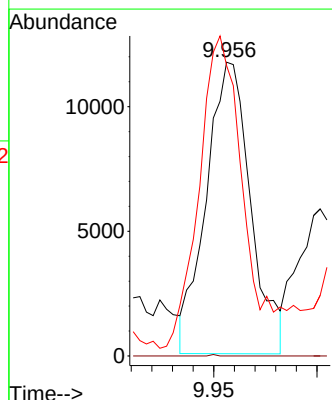
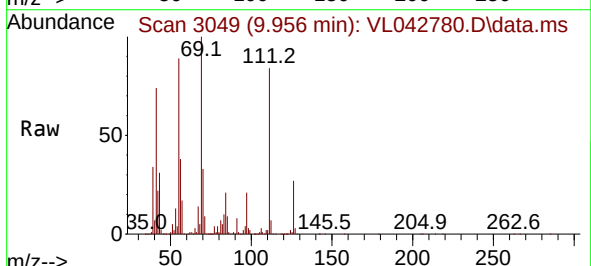
Tgt Ion: 83 Resp: 17495

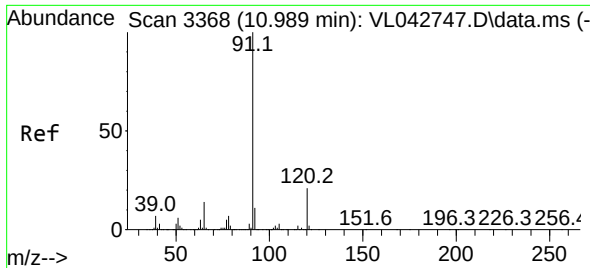
Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

85 110.1 32.6 97.7#

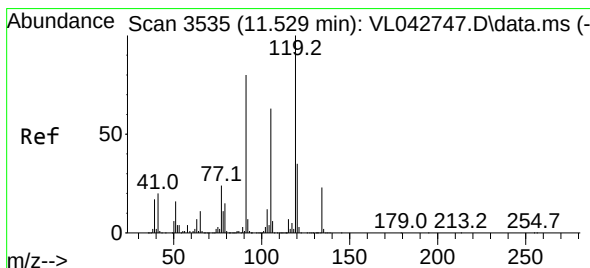
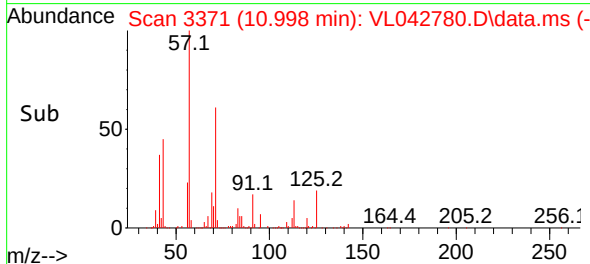
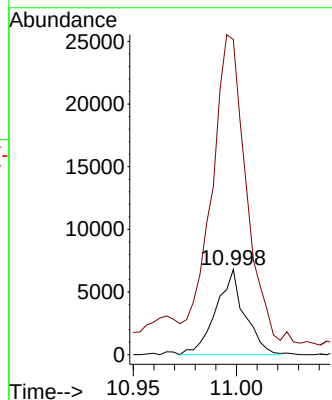
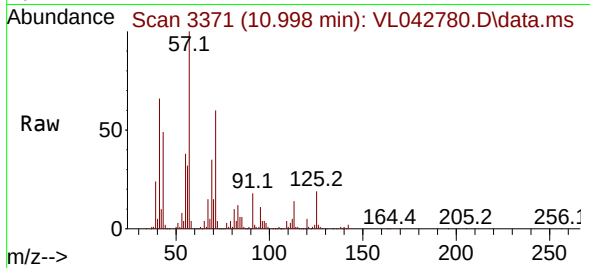




#64
n-propylbenzene
Concen: 0.345 ppbv
RT: 10.998 min Scan# 31
Delta R.T. 0.010 min
Lab File: VL042780.D
Acq: 29 Jul 2025 13:13

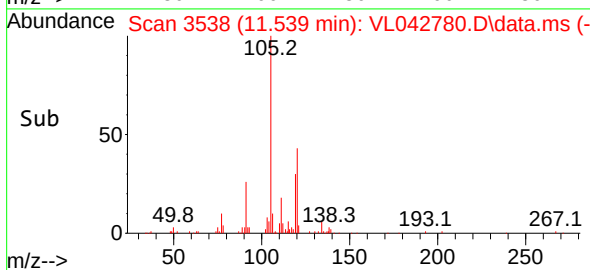
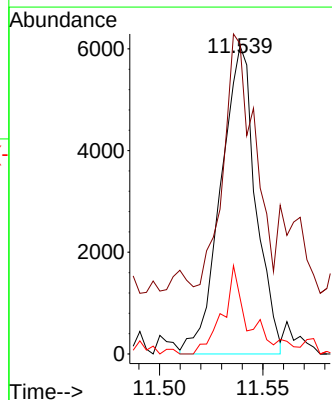
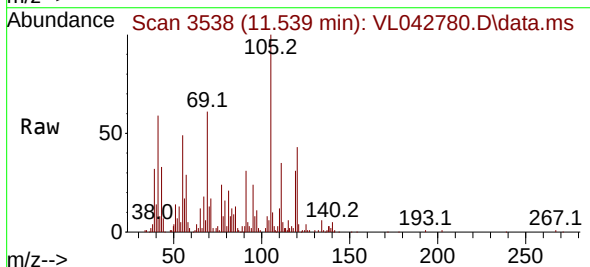
Instrument :
MSVOA_L
ClientSampleId :
SV3

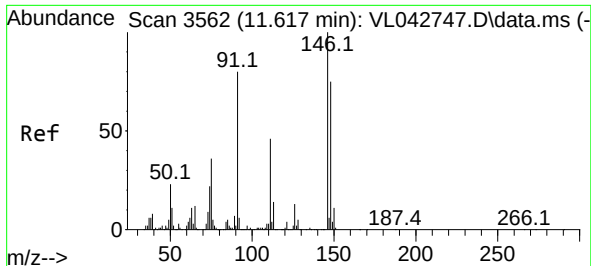
Tgt Ion:120 Resp: 6543
Ion Ratio Lower Upper
120 100
91 553.7 372.7 559.1



#65
tert-Butylbenzene
Concen: 0.110 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.010 min
Lab File: VL042780.D
Acq: 29 Jul 2025 13:13

Tgt Ion:119 Resp: 7148
Ion Ratio Lower Upper
119 100
91 140.0 64.0 96.0#
134 26.4 17.3 25.9#

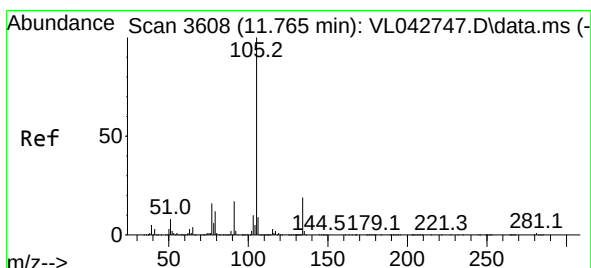
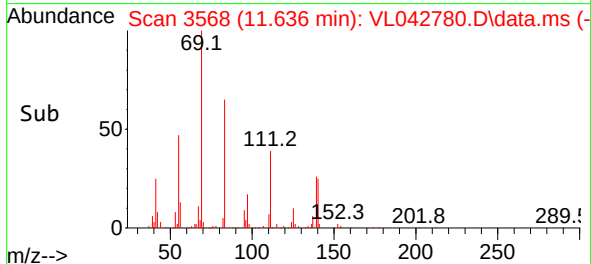
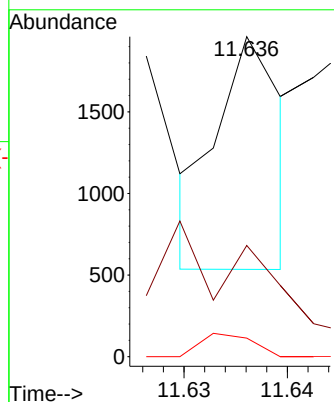
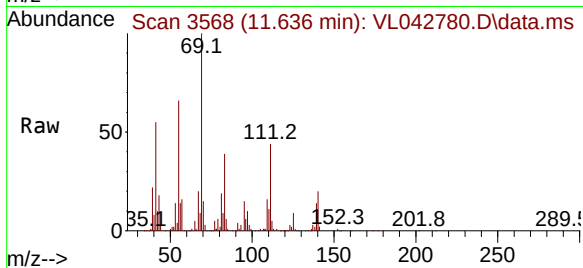




#66
Benzyl Chloride
Concen: 0.118 ppbv
RT: 11.636 min Scan# 311
Delta R.T. 0.019 min
Lab File: VL042780.D
Acq: 29 Jul 2025 13:13

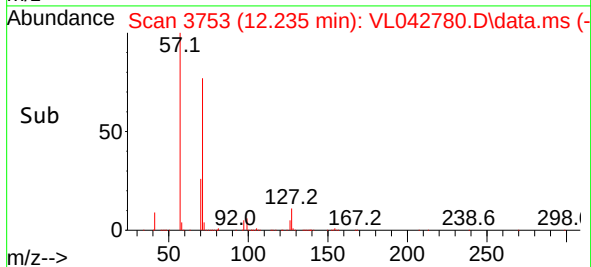
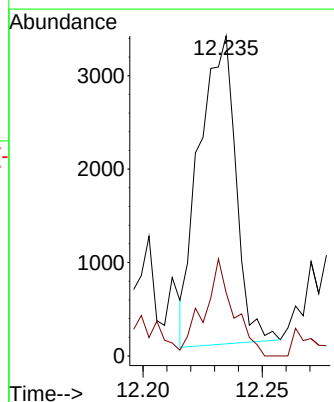
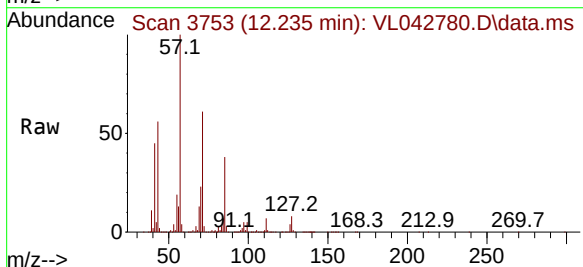
Instrument :
MSVOA_L
ClientSampleId :
SV3

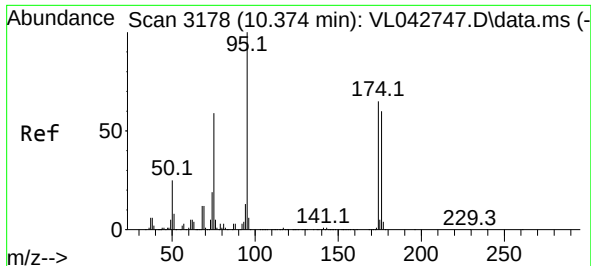
Tgt Ion: 91 Resp: 626
Ion Ratio Lower Upper
91 100
126 0.0 14.4 21.6#
128 0.0 5.2 7.8#



#67
sec-Butylbenzene
Concen: 0.038 ppbv
RT: 12.235 min Scan# 3753
Delta R.T. 0.469 min
Lab File: VL042780.D
Acq: 29 Jul 2025 13:13

Tgt Ion: 105 Resp: 3512
Ion Ratio Lower Upper
105 100
134 21.7 15.5 23.3

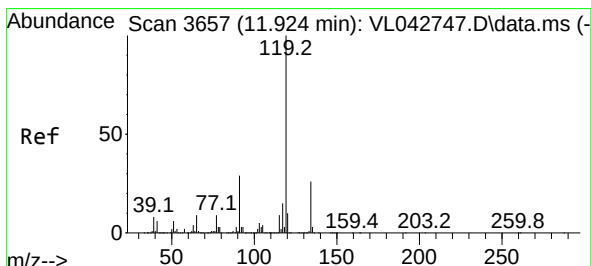
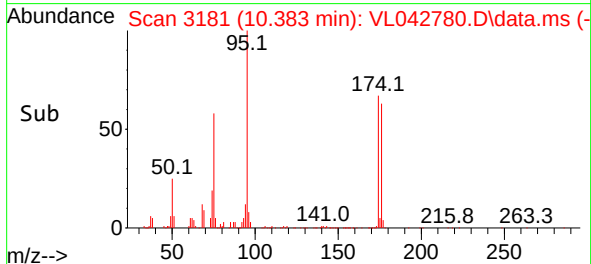
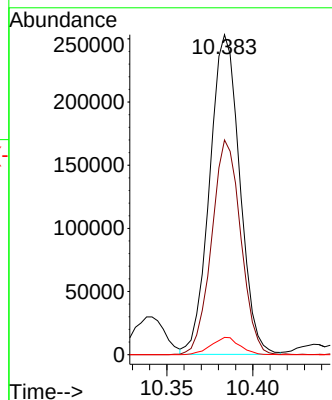
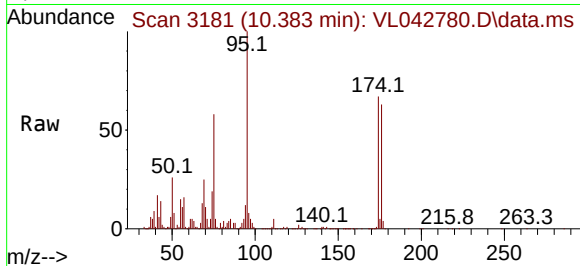




#68
1-Bromo-4-Fluorobenzene
Concen: 9.911 ppbv
RT: 10.383 min Scan# 3178
Delta R.T. 0.010 min
Lab File: VL042780.D
Acq: 29 Jul 2025 13:13

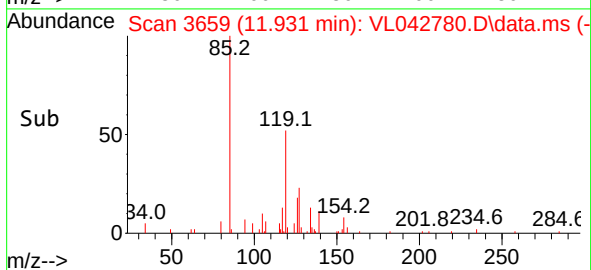
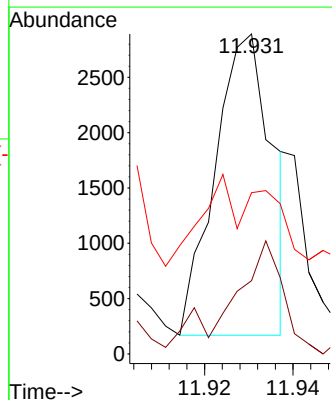
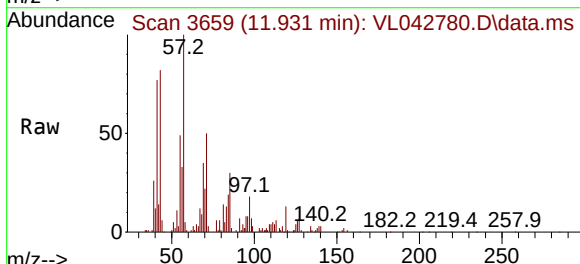
Instrument :
MSVOA_L
ClientSampleId :
SV3

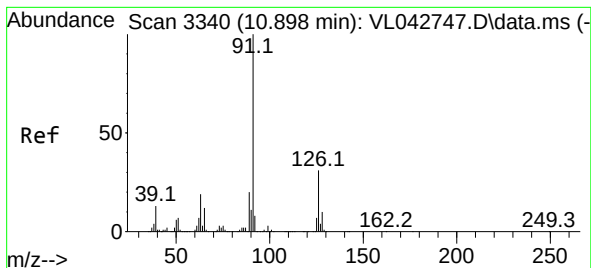
Tgt Ion: 95 Resp: 307367
Ion Ratio Lower Upper
95 100
174 65.2 53.8 80.6
175 5.2 4.0 6.0



#69
p-Isopropyltoluene
Concen: 0.033 ppbv
RT: 11.931 min Scan# 3659
Delta R.T. 0.007 min
Lab File: VL042780.D
Acq: 29 Jul 2025 13:13

Tgt Ion: 119 Resp: 2442
Ion Ratio Lower Upper
119 100
134 36.0 20.6 31.0#
91 29.0 23.2 34.8





#71

2-Chlorotoluene

Concen: 0.501 ppbv

RT: 10.995 min Scan# 31

Delta R.T. 0.097 min

Lab File: VL042780.D

Acq: 29 Jul 2025 13:13

Instrument :

MSVOA_L

ClientSampleId :

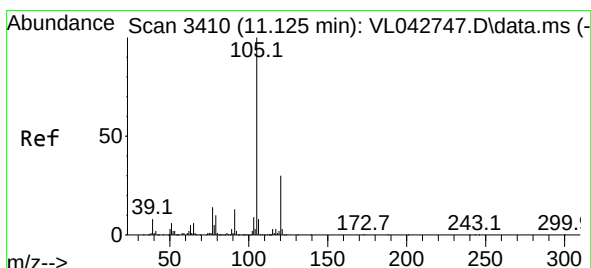
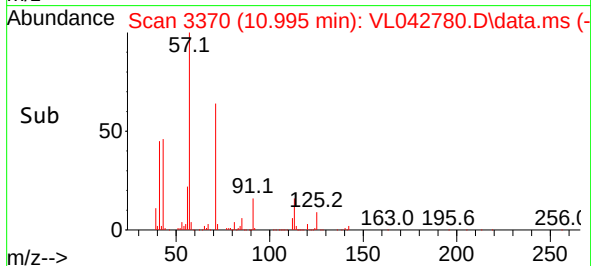
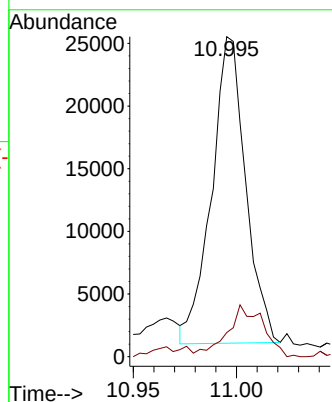
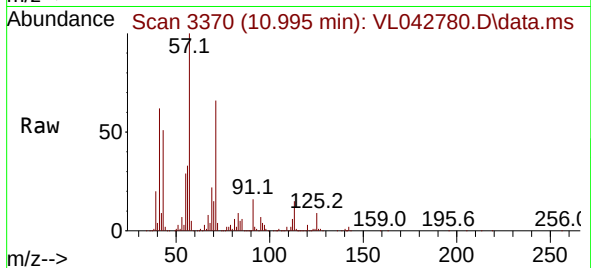
SV3

Tgt Ion: 91 Resp: 27983

Ion Ratio Lower Upper

91 100

126 20.8 12.0 48.2



#72

4-Ethyltoluene

Concen: 0.253 ppbv

RT: 11.131 min Scan# 3412

Delta R.T. 0.007 min

Lab File: VL042780.D

Acq: 29 Jul 2025 13:13

Tgt Ion: 105 Resp: 14927

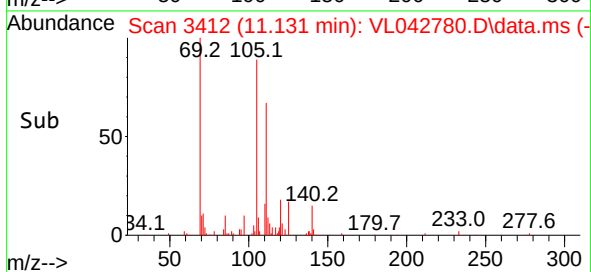
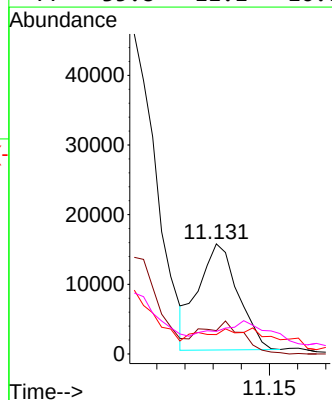
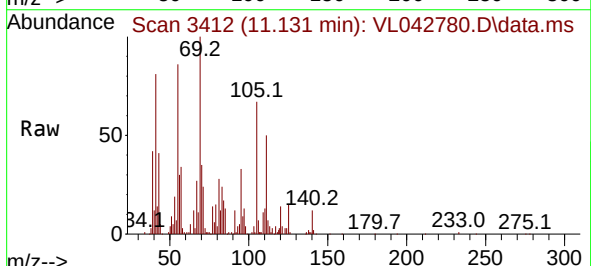
Ion Ratio Lower Upper

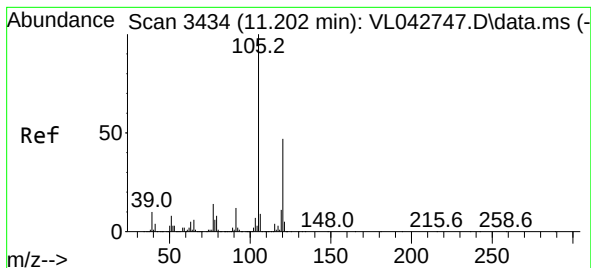
105 100

120 0.0 24.4 36.6#

91 0.0 10.6 15.8#

77 35.8 11.1 16.7#





#73

1,3,5-Trimethylbenzene

Concen: 0.677 ppbv

RT: 11.209 min Scan# 3434

Delta R.T. 0.007 min

Lab File: VL042780.D

Acq: 29 Jul 2025 13:13

Instrument :

MSVOA_L

ClientSampleId :

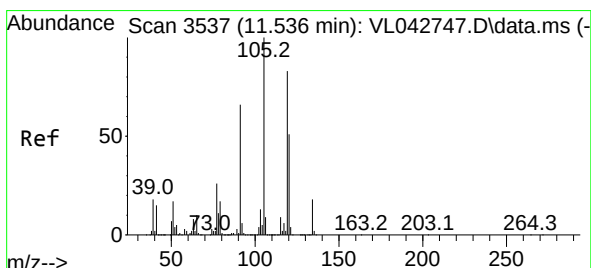
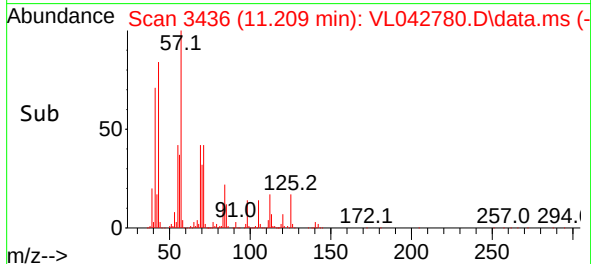
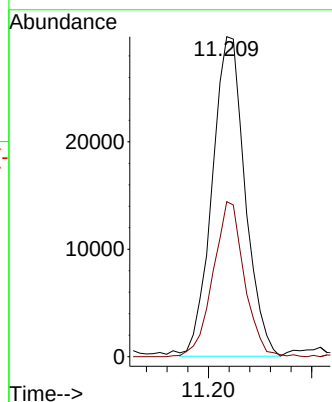
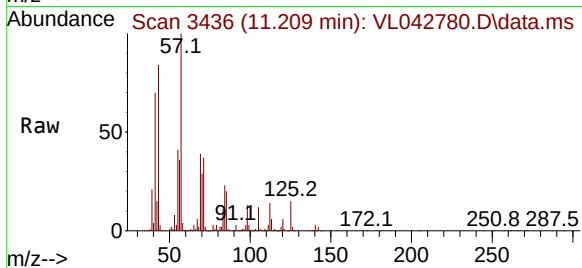
SV3

Tgt Ion:105 Resp: 32854

Ion Ratio Lower Upper

105 100

120 48.2 37.8 56.8



#74

1,2,4-Trimethylbenzene

Concen: 0.454 ppbv

RT: 11.542 min Scan# 3539

Delta R.T. 0.007 min

Lab File: VL042780.D

Acq: 29 Jul 2025 13:13

Tgt Ion:105 Resp: 24049

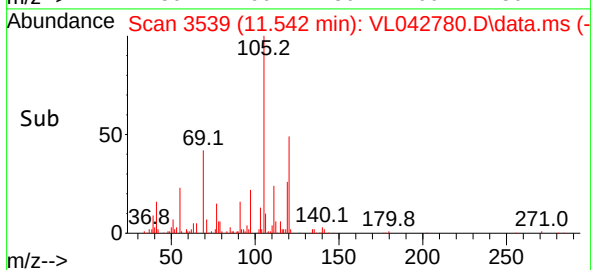
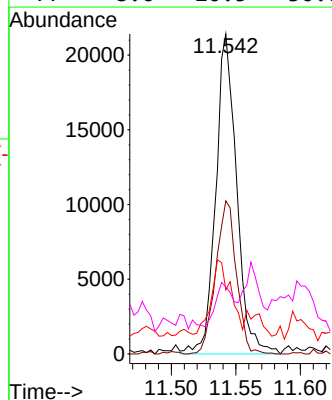
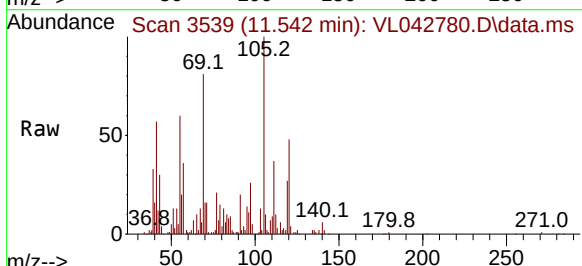
Ion Ratio Lower Upper

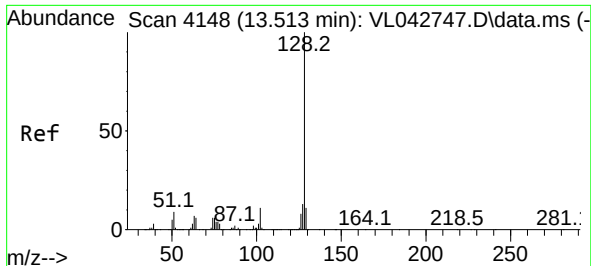
105 100

120 47.9 40.8 61.2

91 13.0 53.0 79.4#

77 8.6 20.5 30.7#

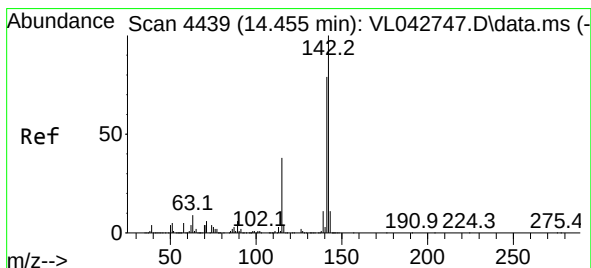
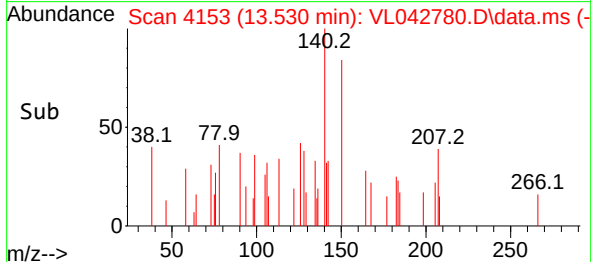
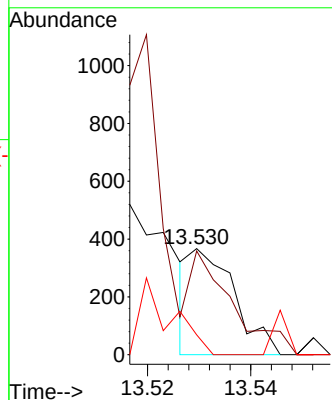
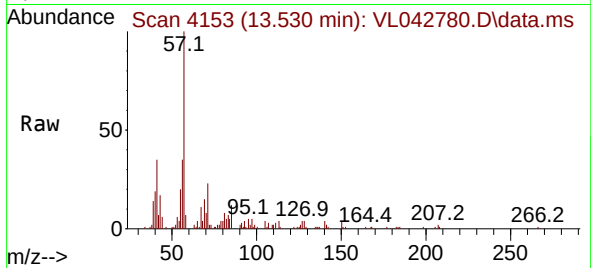




#79
Naphthalene
Concen: 0.439 ppbv
RT: 13.530 min Scan# 4148
Delta R.T. 0.016 min
Lab File: VL042780.D
Acq: 29 Jul 2025 13:13

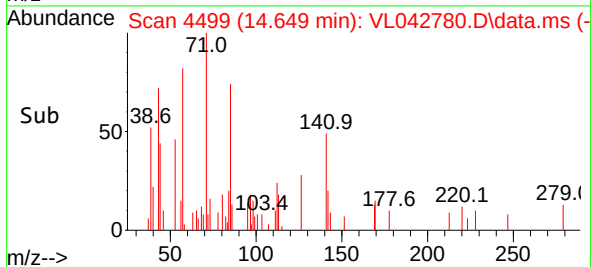
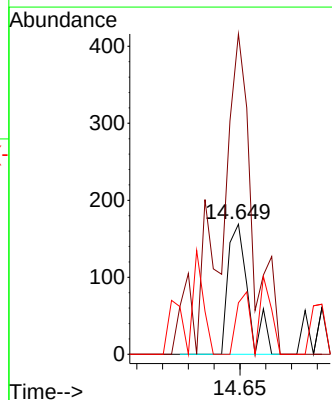
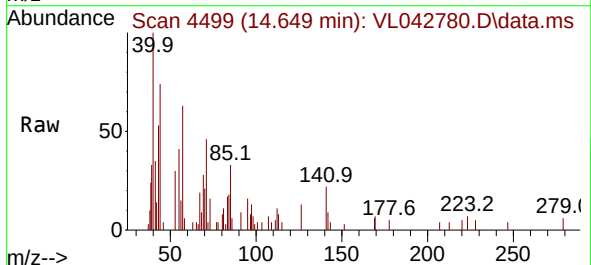
Instrument :
MSVOA_L
ClientSampleId :
SV3

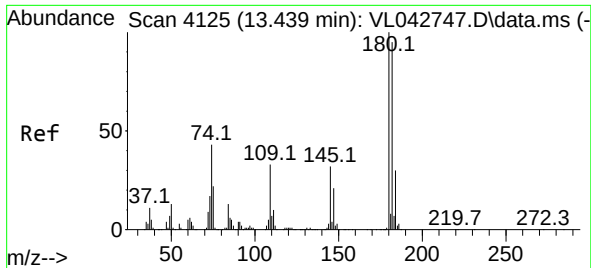
Tgt Ion:128 Resp: 219
Ion Ratio Lower Upper
128 100
127 75.7 10.5 15.7#
129 0.0 8.6 13.0#



#80
Naphthalene,2-methyl-
Concen: 1.131 ppbv
RT: 14.649 min Scan# 4499
Delta R.T. 0.194 min
Lab File: VL042780.D
Acq: 29 Jul 2025 13:13

Tgt Ion:142 Resp: 90
Ion Ratio Lower Upper
142 100
141 412.2 65.8 98.8#
115 101.1 31.2 46.8#





#81

1,2,4-Trichlorobenzene

Concen: 0.436 ppbv

RT: 13.449 min Scan# 41

Delta R.T. 0.010 min

Lab File: VL042780.D

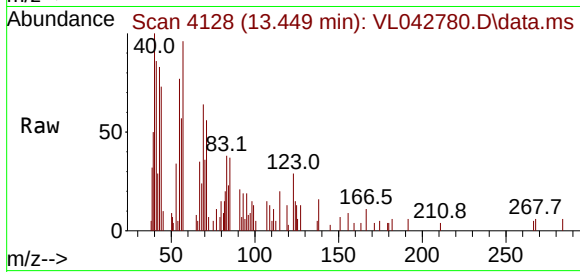
Acq: 29 Jul 2025 13:13

Instrument :

MSVOA_L

ClientSampleId :

SV3



Tgt Ion:	180	Resp:	22
Ion	Ratio	Lower	Upper
180	100		
182	0.0	76.2	114.2#
184	0.0	24.8	37.2#

