

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092425\
 Data File : VL043007.D
 Acq On : 24 Sep 2025 13:31
 Operator : SY/MD
 Sample : Q3154-02 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

Quant Time: Sep 25 01:55:12 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 23 02:39:16 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	153511	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	468363	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	423322	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	329247	10.419	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.200%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	5397	0.261	ppbv	100
3) Chlorodifluoromethane	1.560	51	1935	0.075	ppbv	95
4) Chloromethane	1.534	50	2229	0.239	ppbv #	69
6) Bromomethane	1.667	94	91	0.031	ppbv #	4
7) Chloroethane	1.706	64	245	0.075	ppbv #	66
9) Propene	1.560	41	52082	4.652	ppbv	95
10) Heptane	4.988	43	32568	1.090	ppbv	99
11) Trichlorofluoromethane	1.881	101	7073	0.355	ppbv	91
12) 1,1,2-Trichlorotrifluo...	2.140	101	1089	0.068	ppbv #	71
13) Ethanol	1.722	45	50887	46.856	ppbv	96
15) Acetone	1.839	43	316907	15.850	ppbv #	80
16) 1,3-Butadiene	1.602	39	9783	1.037	ppbv #	43
17) tert-Butyl alcohol	2.042	59	3238	0.148	ppbv #	72
19) Isopropyl Alcohol	1.887	45	43645	3.631	ppbv #	1
20) Methylene Chloride	2.062	84	5362	0.246	ppbv	94
21) Allyl Chloride	2.191	41	4546	0.326	ppbv #	1
22) trans-1,2-Dichloroethene	2.347	96	1034	0.122	ppbv #	61
23) Vinyl Acetate	2.476	43	160962	5.635	ppbv #	46
25) Ethyl Acetate	2.829	43	61697	1.221	ppbv #	82
26) Hexane	2.829	57	82930	3.600	ppbv #	42
27) Carbon Disulfide	2.152	76	43286	2.095	ppbv #	1
29) Chloroform	2.852	83	2243	0.074	ppbv	86
30) Cyclohexane	3.861	84	91897	4.772	ppbv	96
31) cis-1,2-Dichloroethene	2.343	61	1477	0.068	ppbv	95
32) 1,1,1-Trichloroethane	3.373	97	8561	0.263	ppbv	95
34) 2-Butanone	2.560	43	42998	1.310	ppbv	97
36) Benzene	3.661	78	53997	1.228	ppbv	99
37) 1,2-Dichloroethane	3.230	62	916	0.040	ppbv #	79
38) Trichloroethene	4.551	130	17242	0.789	ppbv	95
39) 1,2-Dichloropropane	3.962	63	110514	6.883	ppbv #	24
41) Tetrahydrofuran	3.062	42	11968	0.634	ppbv	96
42) Bromodichloromethane	4.512	83	1996	0.062	ppbv #	26
44) 2,2,4-Trimethylpentane	4.645	57	42705	0.562	ppbv #	69
51) 2-Hexanone	7.464	43	1480	0.042	ppbv #	93
52) Tetrachloroethene	8.228	164	13311	0.782	ppbv	94
53) Toluene	6.939	91	95651	1.837	ppbv	99
57) Chlorobenzene	8.872	112	3389	0.088	ppbv #	83
58) Ethyl Benzene	9.360	91	23962	0.345	ppbv	95
59) m/p-Xylene	9.535	91	54439	0.993	ppbv #	100
60) o-Xylene	9.966	91	35535	0.649	ppbv	100
61) Styrene	9.872	104	97357	3.758	ppbv	99
62) Isopropylbenzene	10.542	105	7621	0.093	ppbv	92
63) 1,1,2,2-Tetrachloroethane	9.950	83	1967	0.068	ppbv #	7

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Quant Time: Sep 25 01:55:12 2025
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 QLast Update : Tue Sep 23 02:39:16 2025
 Response via : Initial Calibration

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

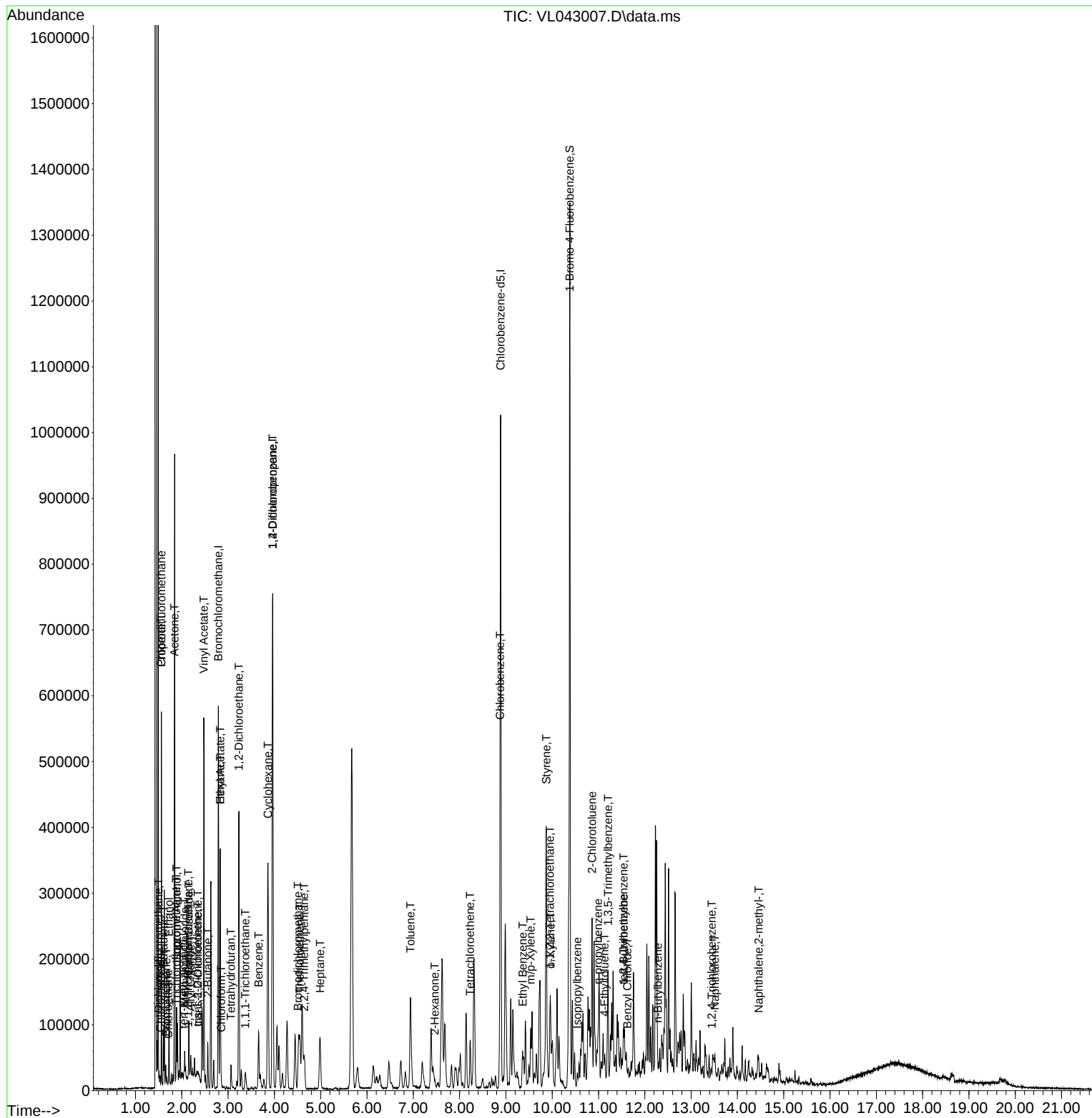
64) n-propylbenzene	10.992	120	2293	0.107	ppbv	88
65) tert-Butylbenzene	11.539	119	3245	0.045	ppbv #	45
66) Benzyl Chloride	11.623	91	309	0.041	ppbv #	98
70) n-Butylbenzene	12.283	91	3592	0.043	ppbv #	48
71) 2-Chlorotoluene	10.859	91	25075	0.407	ppbv #	45
72) 4-Ethyltoluene	11.128	105	6285	0.092	ppbv #	55
73) 1,3,5-Trimethylbenzene	11.205	105	8544	0.154	ppbv	97
74) 1,2,4-Trimethylbenzene	11.539	105	24496	0.399	ppbv #	67
79) Naphthalene	13.513	128	10737	0.198	ppbv #	94
80) Naphthalene,2-methyl-	14.458	142	6472	0.386	ppbv #	93
81) 1,2,4-Trichlorobenzene	13.445	180	952	0.033	ppbv #	59

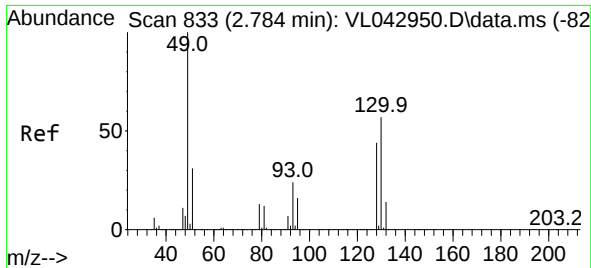
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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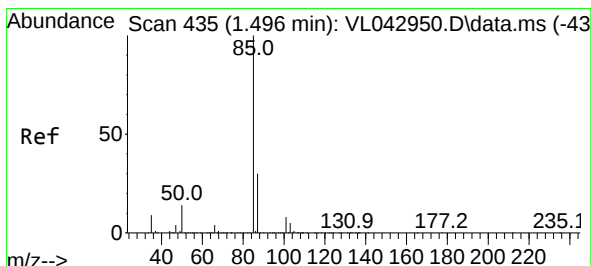
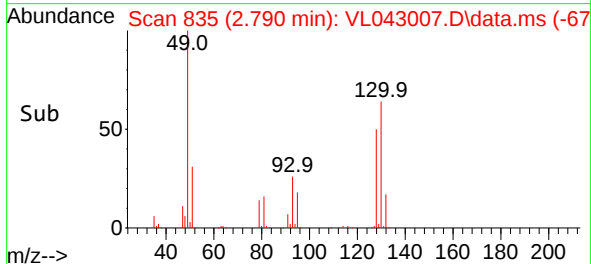
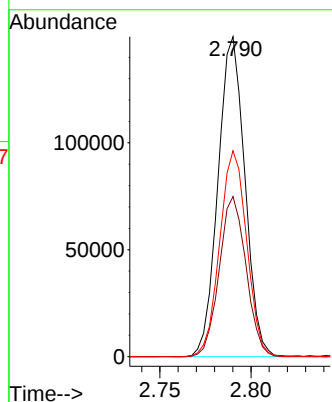
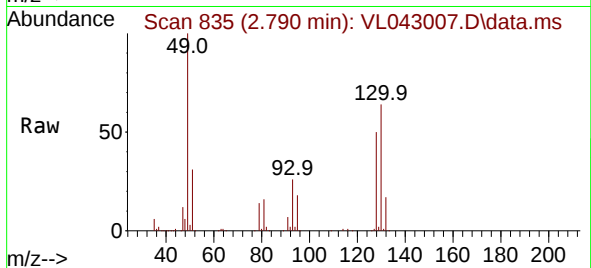




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 833
Delta R.T. 0.006 min
Lab File: VL043007.D
Acq: 24 Sep 2025 13:31

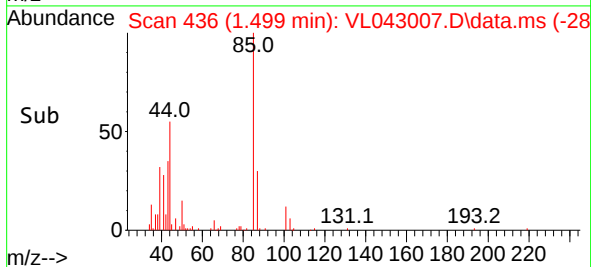
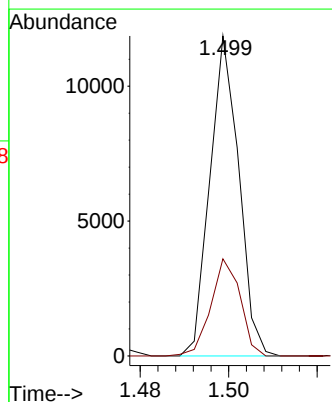
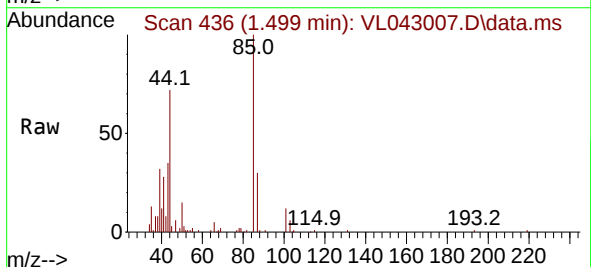
Instrument :
MSVOA_L
ClientSampleId :
SV2

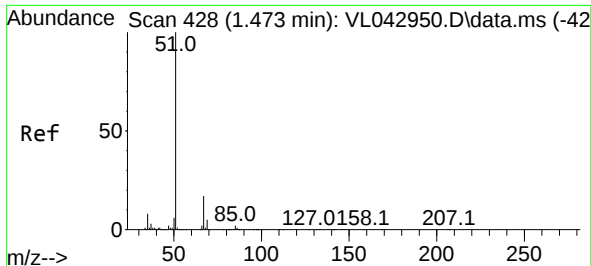
Tgt Ion: 49 Resp: 153511
Ion Ratio Lower Upper
49 100
128 49.8 22.9 68.8
130 64.7 29.1 87.3



#2
Dichlorodifluoromethane
Concen: 0.261 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043007.D
Acq: 24 Sep 2025 13:31

Tgt Ion: 85 Resp: 5397
Ion Ratio Lower Upper
85 100
87 30.3 24.3 36.5

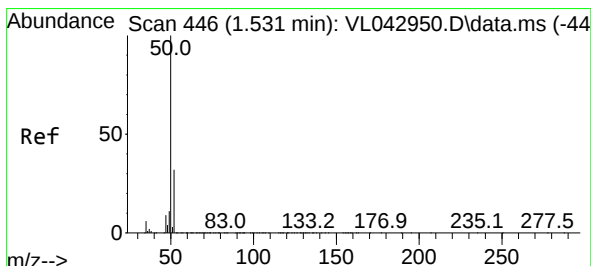
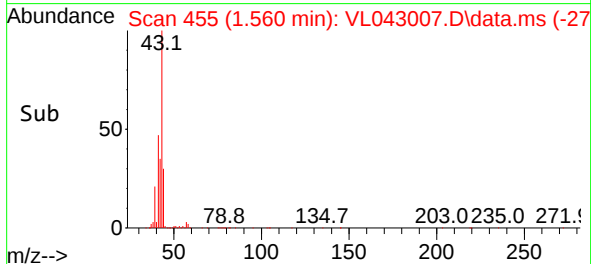
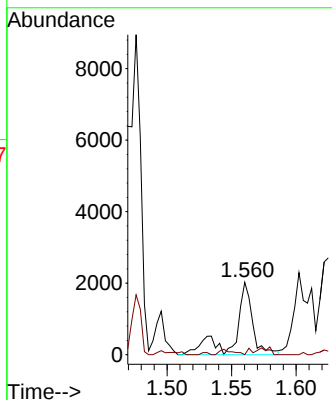
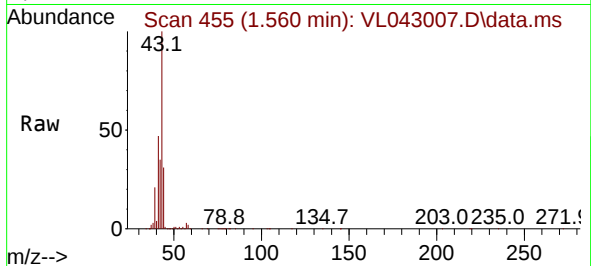




#3
Chlorodifluoromethane
Concen: 0.075 ppbv
RT: 1.560 min Scan# 41
Delta R.T. 0.087 min
Lab File: VL043007.D
Acq: 24 Sep 2025 13:31

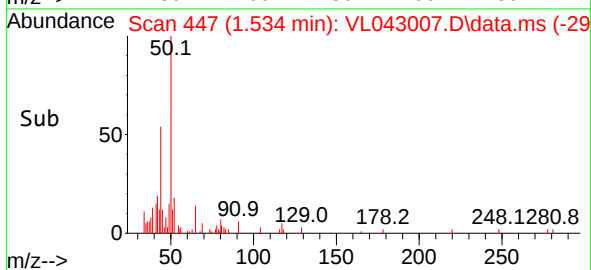
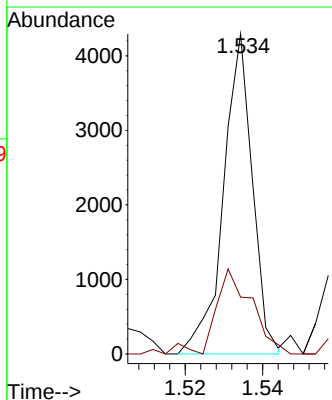
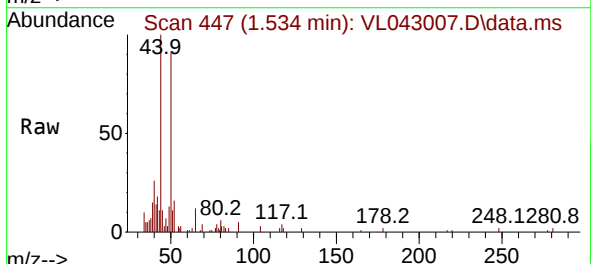
Instrument :
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ClientSampleId :
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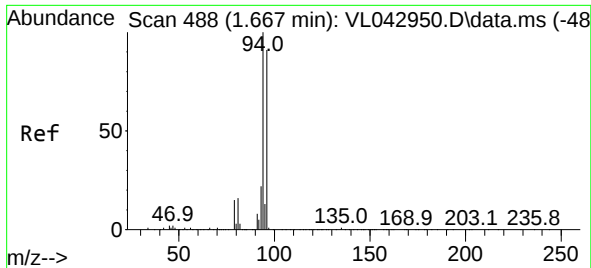
Tgt Ion: 51 Resp: 1935
Ion Ratio Lower Upper
51 100
67 15.2 13.8 20.8



#4
Chloromethane
Concen: 0.239 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL043007.D
Acq: 24 Sep 2025 13:31

Tgt Ion: 50 Resp: 2229
Ion Ratio Lower Upper
50 100
52 14.9 25.9 38.9#

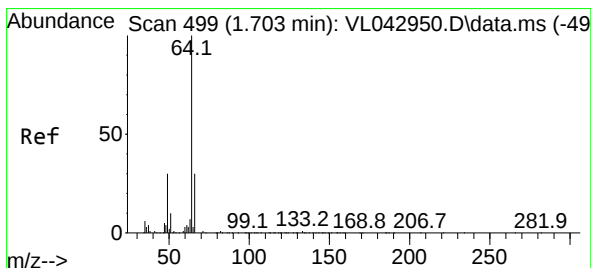
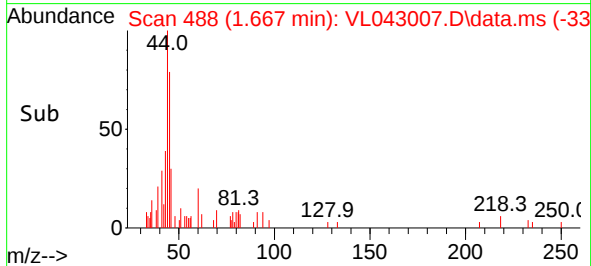
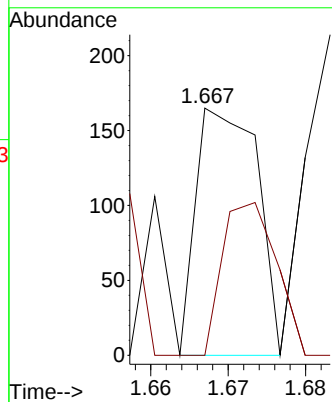
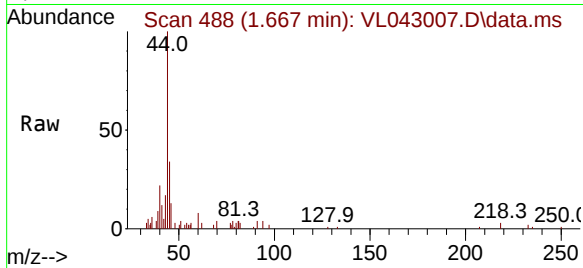




#6
Bromomethane
Concen: 0.031 ppbv
RT: 1.667 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL043007.D
Acq: 24 Sep 2025 13:31

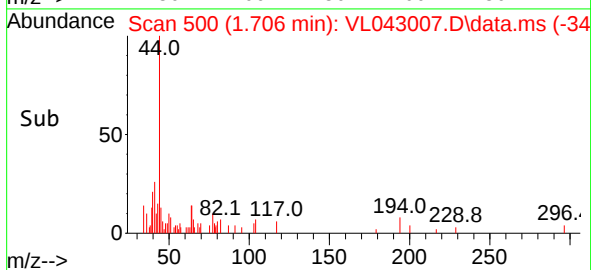
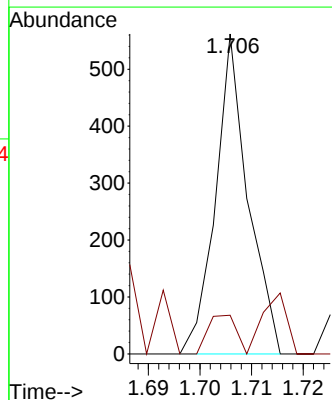
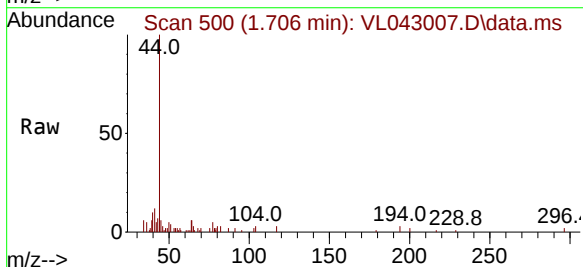
Instrument :
MSVOA_L
ClientSampleId :
SV2

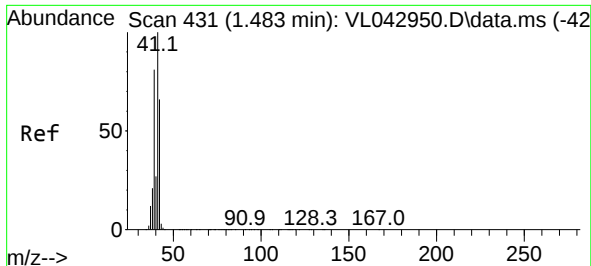
Tgt Ion: 94 Resp: 91
Ion Ratio Lower Upper
94 100
96 0.0 72.6 108.8#



#7
Chloroethane
Concen: 0.075 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.003 min
Lab File: VL043007.D
Acq: 24 Sep 2025 13:31

Tgt Ion: 64 Resp: 245
Ion Ratio Lower Upper
64 100
66 12.1 24.6 36.8#





#9

Propene

Concen: 4.652 ppbv

RT: 1.560 min Scan# 41

Delta R.T. 0.077 min

Lab File: VL043007.D

Acq: 24 Sep 2025 13:31

Instrument :

MSVOA_L

ClientSampleId :

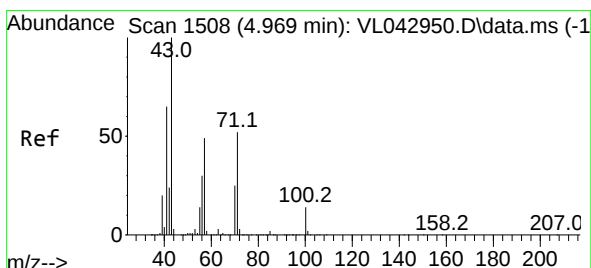
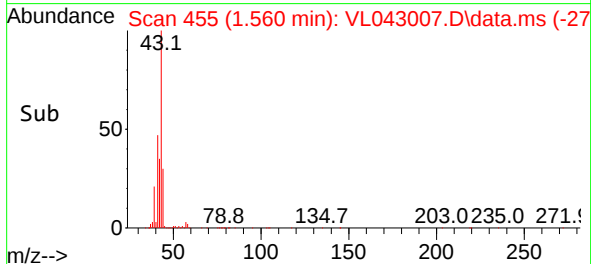
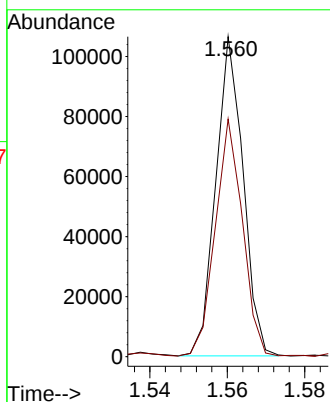
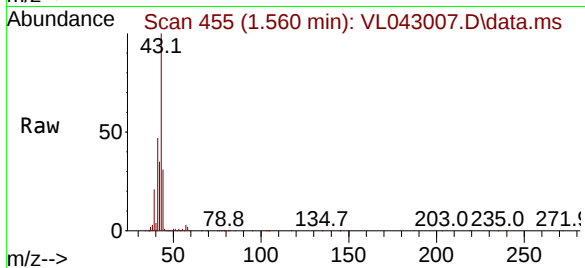
SV2

Tgt Ion: 41 Resp: 52082

Ion Ratio Lower Upper

41 100

42 75.7 57.4 86.2



#10

Heptane

Concen: 1.090 ppbv

RT: 4.988 min Scan# 1514

Delta R.T. 0.019 min

Lab File: VL043007.D

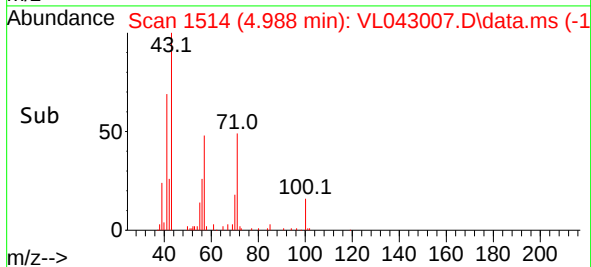
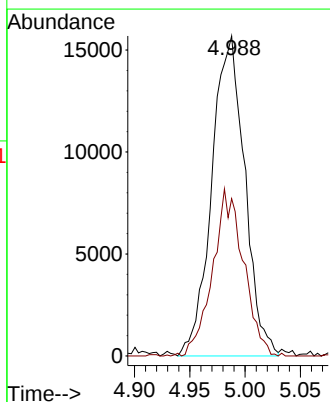
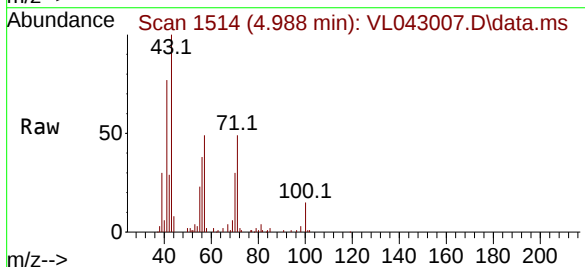
Acq: 24 Sep 2025 13:31

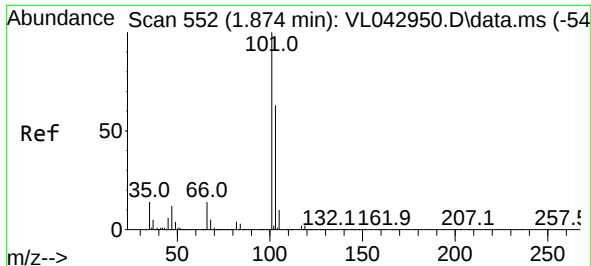
Tgt Ion: 43 Resp: 32568

Ion Ratio Lower Upper

43 100

57 49.0 38.6 57.8

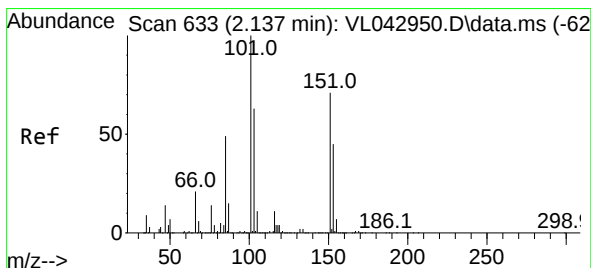
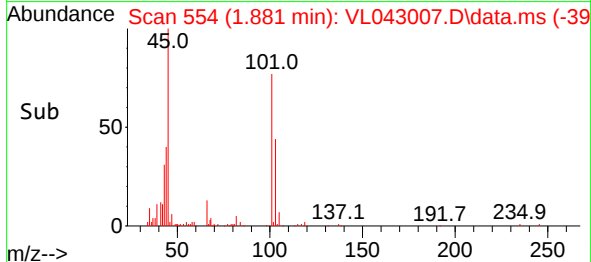
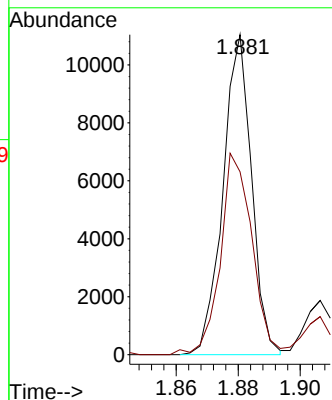
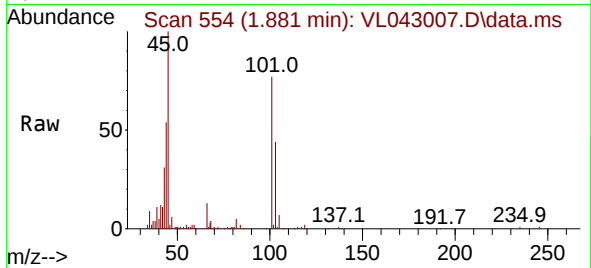




#11
 Trichlorofluoromethane
 Concen: 0.355 ppbv
 RT: 1.881 min Scan# 51
 Delta R.T. 0.006 min
 Lab File: VL043007.D
 Acq: 24 Sep 2025 13:31

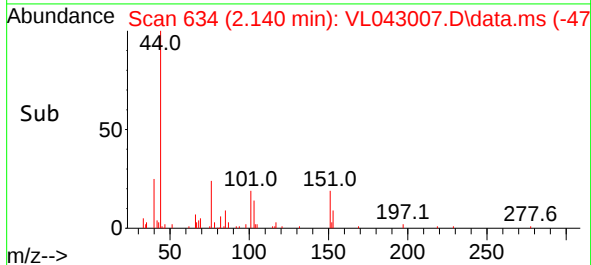
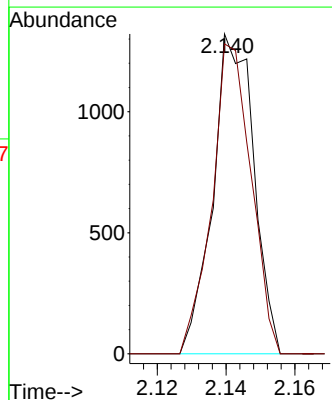
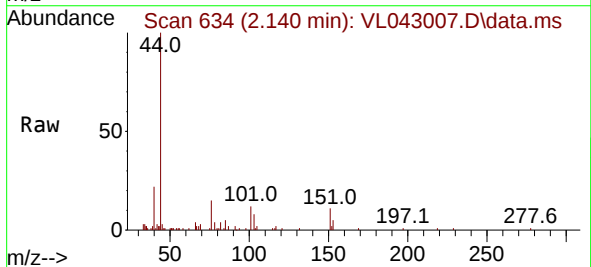
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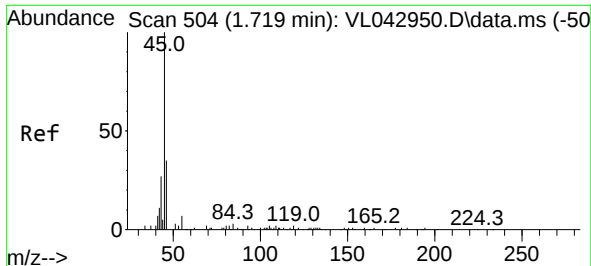
Tgt Ion:101 Resp: 7073
 Ion Ratio Lower Upper
 101 100
 103 55.6 50.1 75.1



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.068 ppbv
 RT: 2.140 min Scan# 634
 Delta R.T. 0.003 min
 Lab File: VL043007.D
 Acq: 24 Sep 2025 13:31

Tgt Ion:101 Resp: 1089
 Ion Ratio Lower Upper
 101 100
 151 93.2 55.7 83.5#

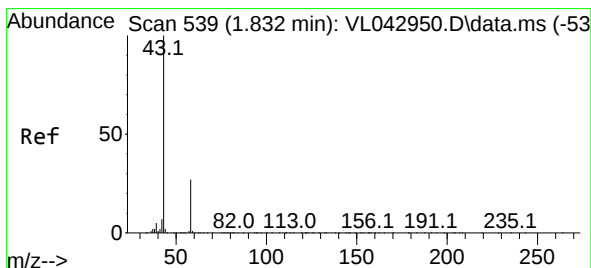
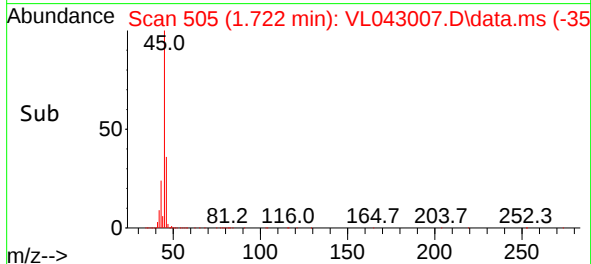
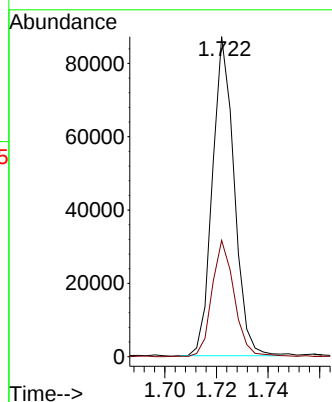
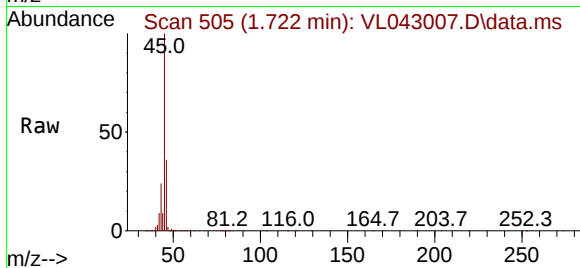




#13
Ethanol
Concen: 46.856 ppbv
RT: 1.722 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL043007.D
Acq: 24 Sep 2025 13:31

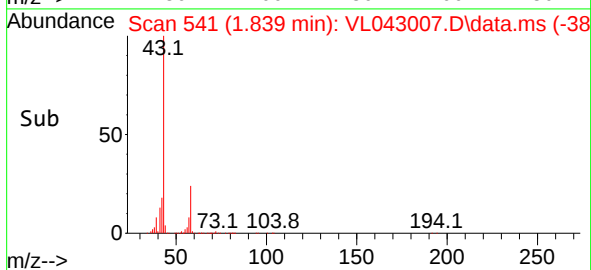
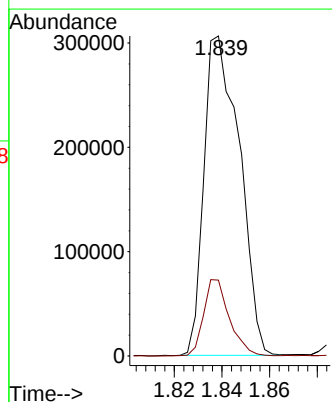
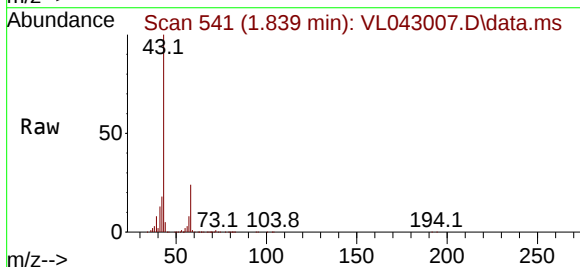
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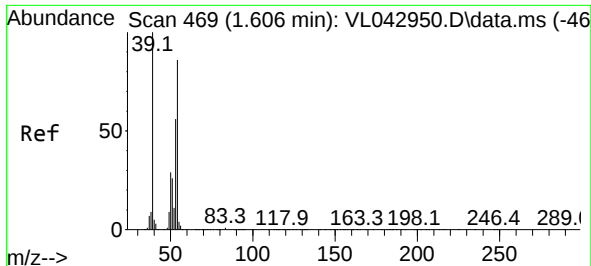
Tgt Ion: 45 Resp: 50887
Ion Ratio Lower Upper
45 100
46 38.1 16.2 64.6



#15
Acetone
Concen: 15.850 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.006 min
Lab File: VL043007.D
Acq: 24 Sep 2025 13:31

Tgt Ion: 43 Resp: 316907
Ion Ratio Lower Upper
43 100
58 17.6 22.3 33.5#

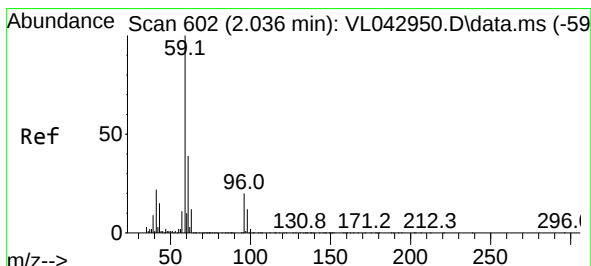
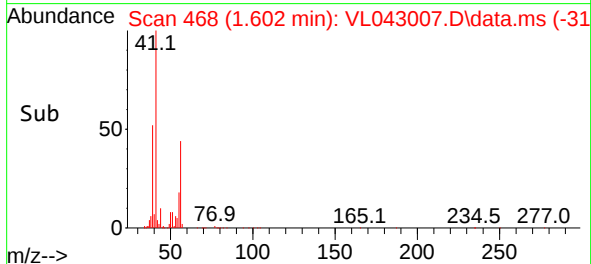
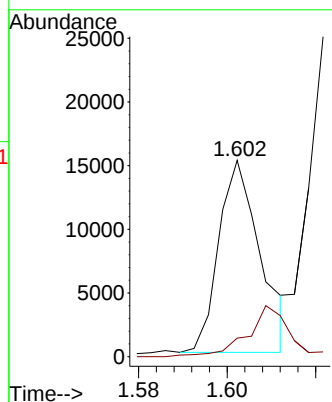
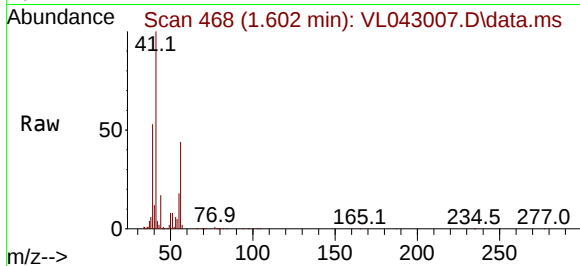




#16
1,3-Butadiene
Concen: 1.037 ppbv
RT: 1.602 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL043007.D
Acq: 24 Sep 2025 13:31

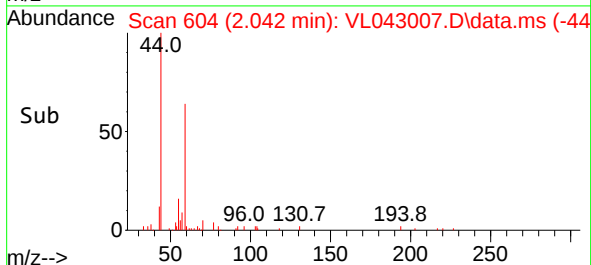
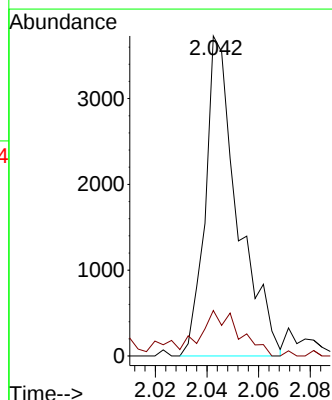
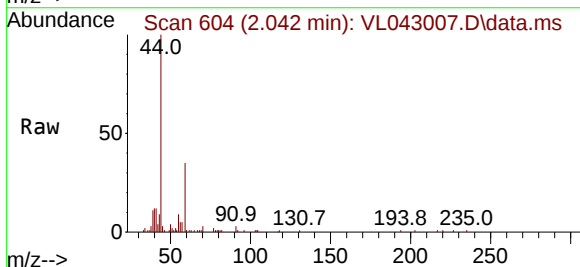
Instrument :
MSVOA_L
ClientSampleId :
SV2

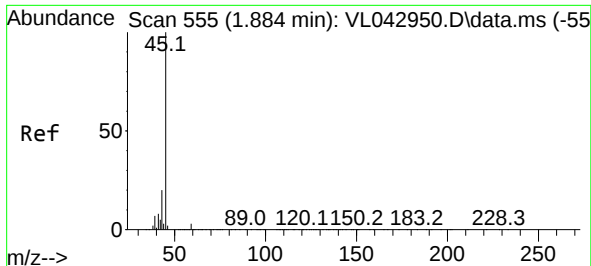
Tgt Ion: 39 Resp: 9783
Ion Ratio Lower Upper
39 100
54 27.5 60.8 91.2#



#17
tert-Butyl alcohol
Concen: 0.148 ppbv
RT: 2.042 min Scan# 604
Delta R.T. 0.006 min
Lab File: VL043007.D
Acq: 24 Sep 2025 13:31

Tgt Ion: 59 Resp: 3238
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#

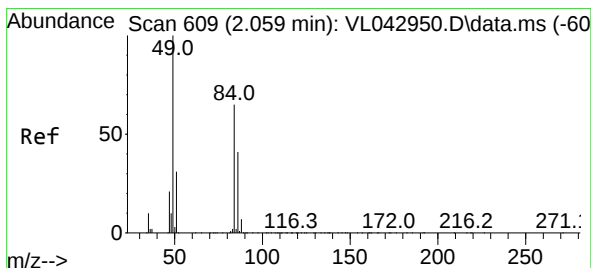
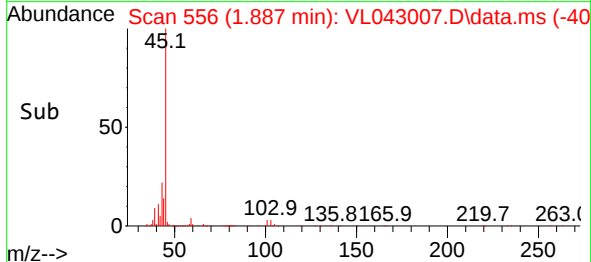
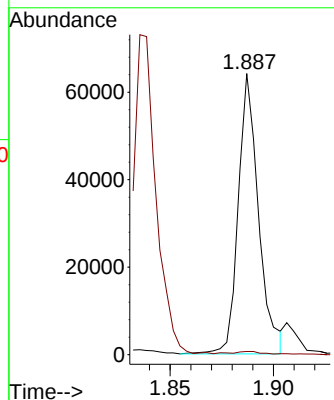
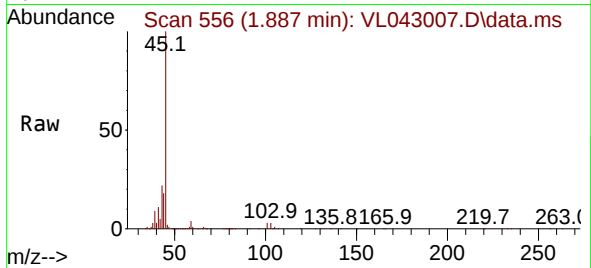




#19
Isopropyl Alcohol
Concen: 3.631 ppbv
RT: 1.887 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL043007.D
Acq: 24 Sep 2025 13:31

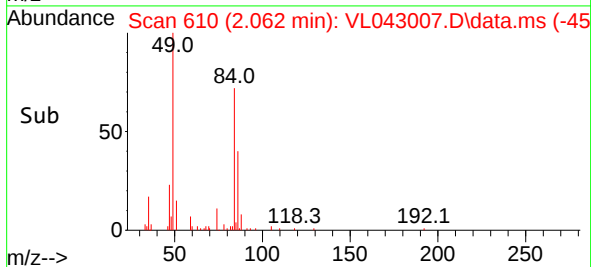
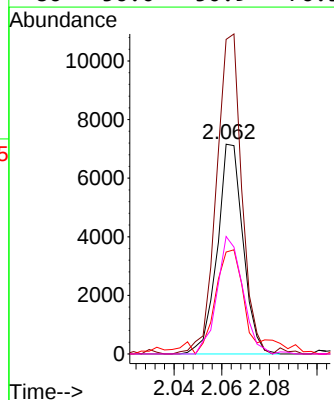
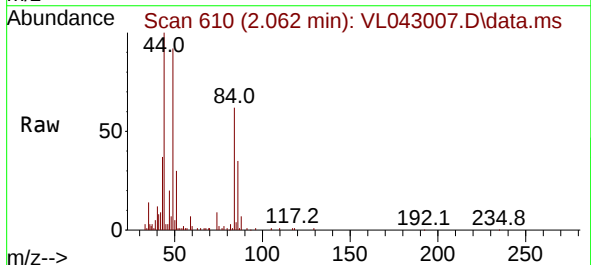
Instrument :
MSVOA_L
ClientSampleId :
SV2

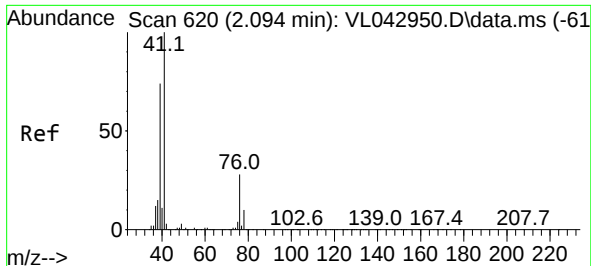
Tgt Ion: 45 Resp: 43645
Ion Ratio Lower Upper
45 100
58 127.7 31.0 46.6#



#20
Methylene Chloride
Concen: 0.246 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL043007.D
Acq: 24 Sep 2025 13:31

Tgt Ion: 84 Resp: 5362
Ion Ratio Lower Upper
84 100
49 148.9 124.1 186.1
51 45.7 39.8 59.8
86 56.0 50.9 76.3

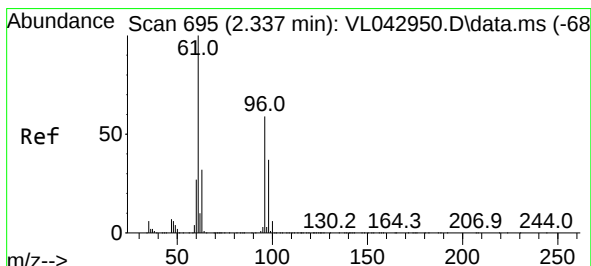
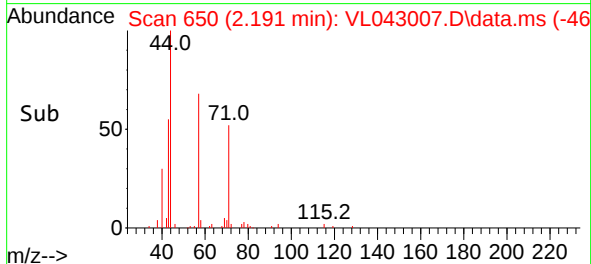
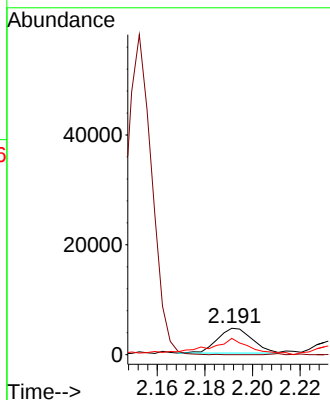
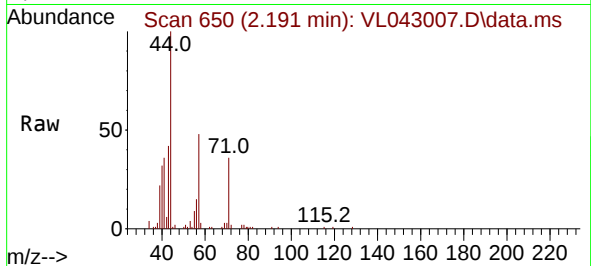




#21
 Allyl Chloride
 Concen: 0.326 ppbv
 RT: 2.191 min Scan# 61
 Delta R.T. 0.097 min
 Lab File: VL043007.D
 Acq: 24 Sep 2025 13:31

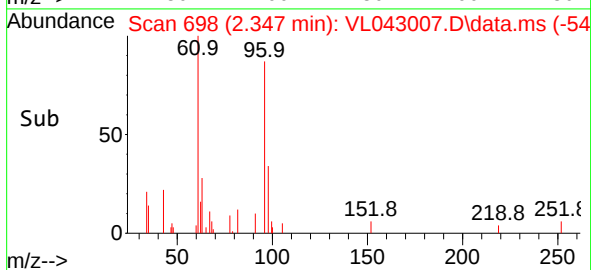
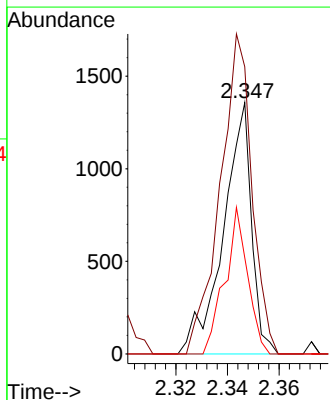
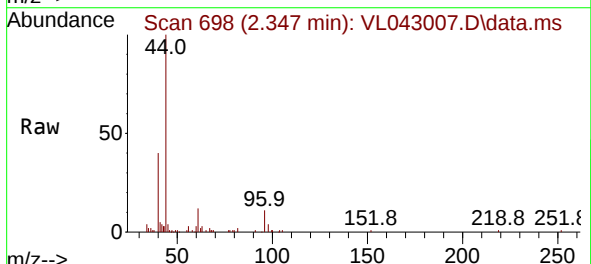
Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

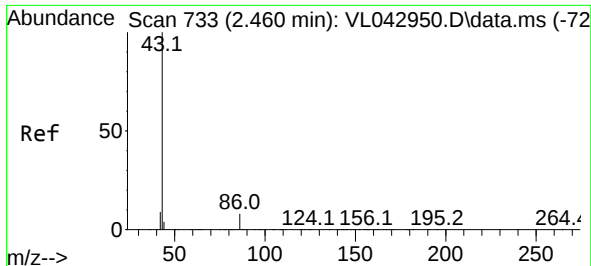
Tgt Ion: 41 Resp: 4546
 Ion Ratio Lower Upper
 41 100
 76 952.4 22.3 33.5#
 39 69.8 61.3 91.9



#22
 trans-1,2-Dichloroethene
 Concen: 0.122 ppbv
 RT: 2.347 min Scan# 698
 Delta R.T. 0.010 min
 Lab File: VL043007.D
 Acq: 24 Sep 2025 13:31

Tgt Ion: 96 Resp: 1034
 Ion Ratio Lower Upper
 96 100
 61 114.3 136.5 204.7#
 98 38.3 50.6 76.0#



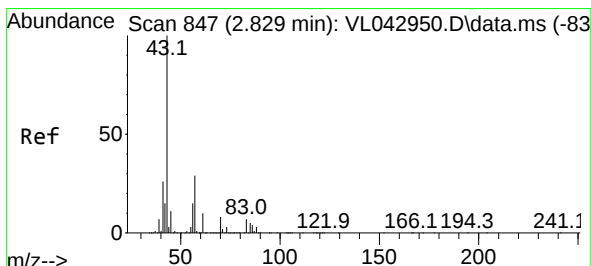
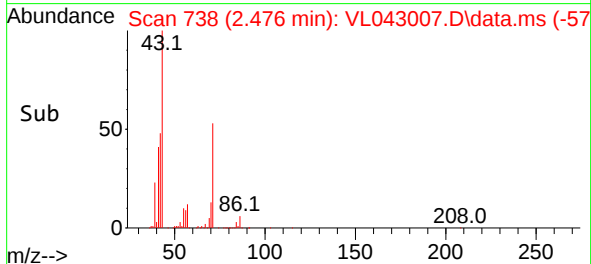
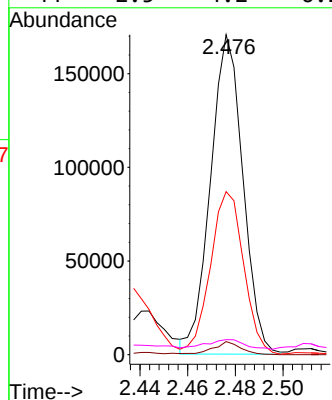
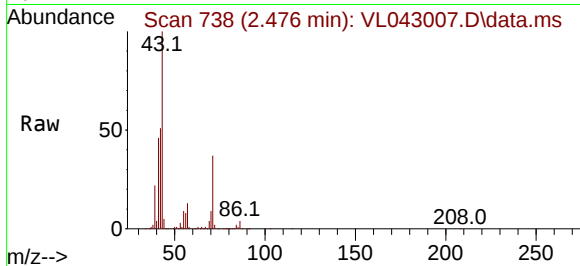


#23
Vinyl Acetate
Concen: 5.635 ppbv
RT: 2.476 min Scan# 738
Delta R.T. 0.016 min
Lab File: VL043007.D
Acq: 24 Sep 2025 13:31

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 43 Resp: 160962

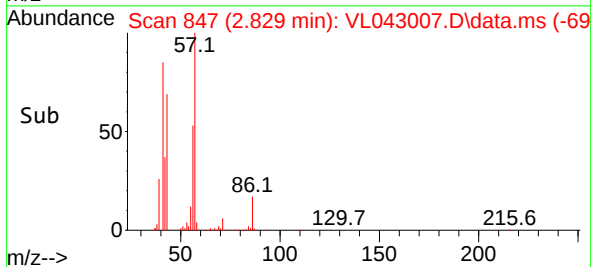
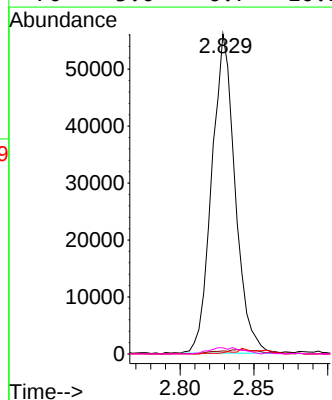
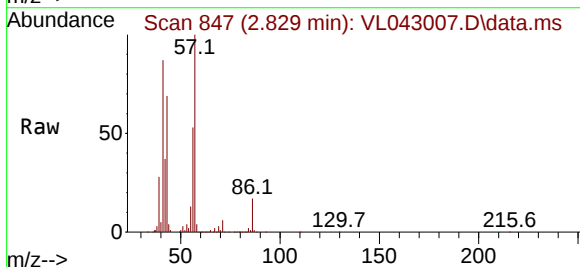
Ion	Ratio	Lower	Upper
43	100		
86	4.2	6.2	9.2#
42	51.2	7.4	11.0#
44	2.5	4.2	6.2#

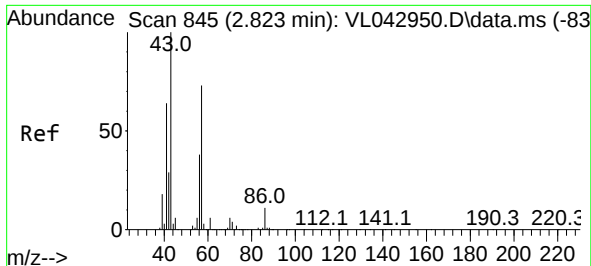


#25
Ethyl Acetate
Concen: 1.221 ppbv
RT: 2.829 min Scan# 847
Delta R.T. -0.000 min
Lab File: VL043007.D
Acq: 24 Sep 2025 13:31

Tgt Ion: 43 Resp: 61697

Ion	Ratio	Lower	Upper
43	100		
45	2.8	7.7	11.5#
61	2.1	7.1	10.7#
70	3.0	6.7	10.1#

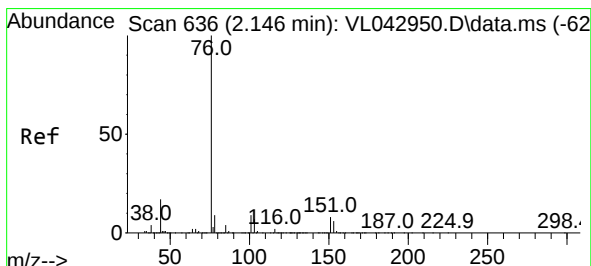
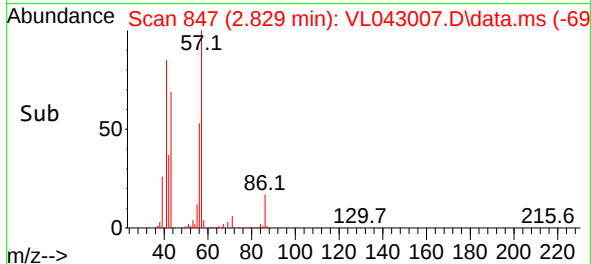
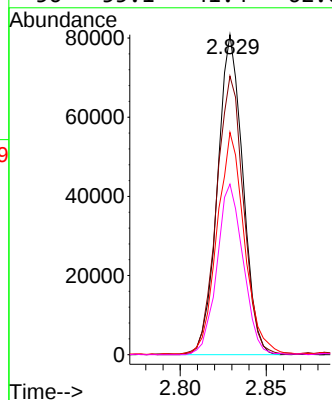
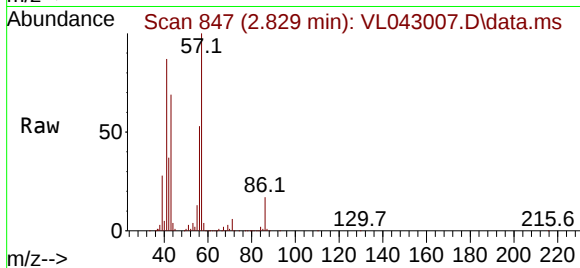




#26
Hexane
Concen: 3.600 ppbv
RT: 2.829 min Scan# 845
Delta R.T. 0.006 min
Lab File: VL043007.D
Acq: 24 Sep 2025 13:31

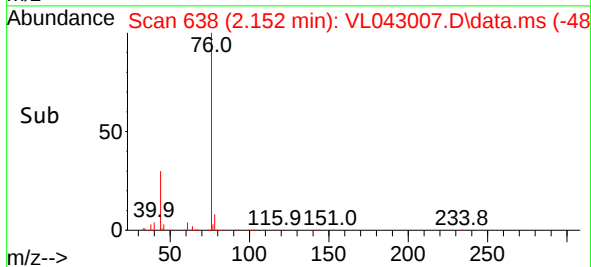
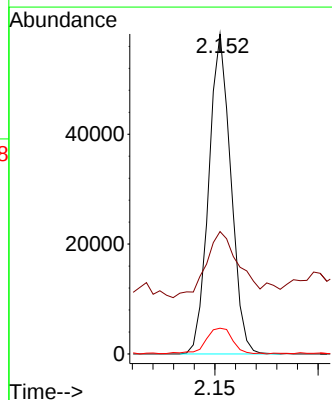
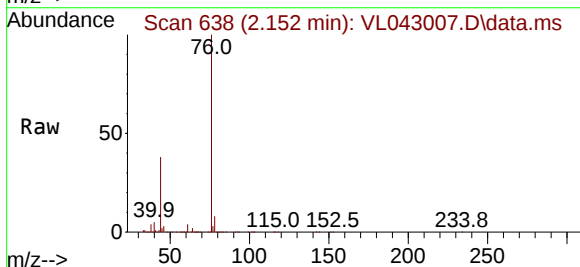
Instrument :
MSVOA_L
ClientSampleId :
SV2

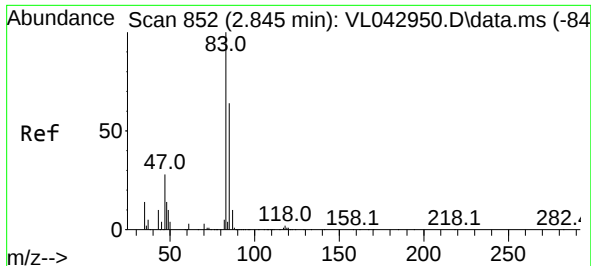
Tgt Ion: 57 Resp: 82930
Ion Ratio Lower Upper
57 100
41 92.7 71.7 107.5
43 76.1 180.8 271.2#
56 55.1 41.4 62.0



#27
Carbon Disulfide
Concen: 2.095 ppbv
RT: 2.152 min Scan# 638
Delta R.T. 0.006 min
Lab File: VL043007.D
Acq: 24 Sep 2025 13:31

Tgt Ion: 76 Resp: 43286
Ion Ratio Lower Upper
76 100
44 97.3 15.6 23.4#
78 9.5 8.9 13.3





#29

Chloroform

Concen: 0.074 ppbv

RT: 2.852 min Scan# 81

Delta R.T. 0.006 min

Lab File: VL043007.D

Acq: 24 Sep 2025 13:31

Instrument :

MSVOA_L

ClientSampleId :

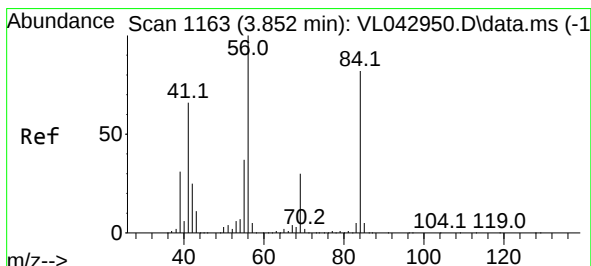
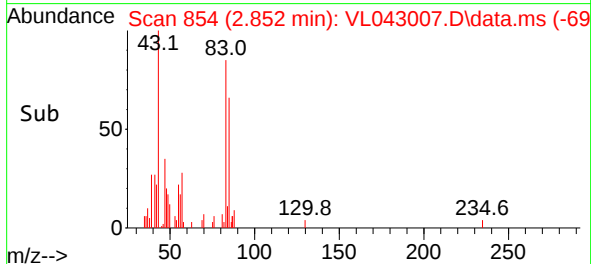
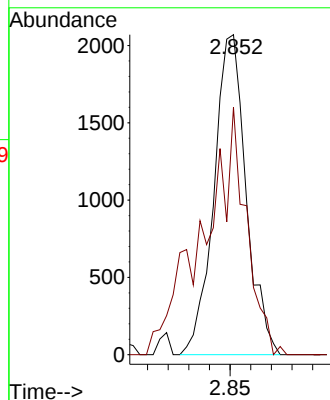
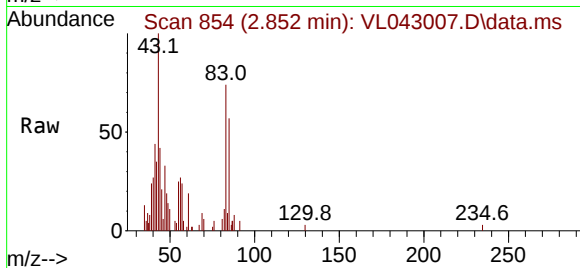
SV2

Tgt Ion: 83 Resp: 2243

Ion Ratio Lower Upper

83 100

85 74.7 51.2 76.8



#30

Cyclohexane

Concen: 4.772 ppbv

RT: 3.861 min Scan# 1166

Delta R.T. 0.010 min

Lab File: VL043007.D

Acq: 24 Sep 2025 13:31

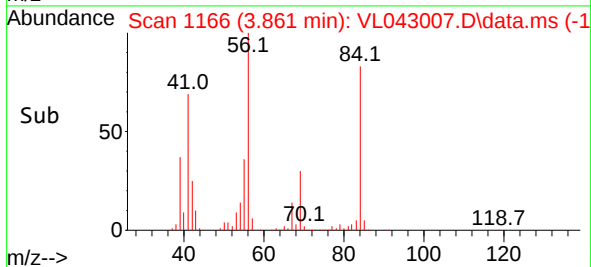
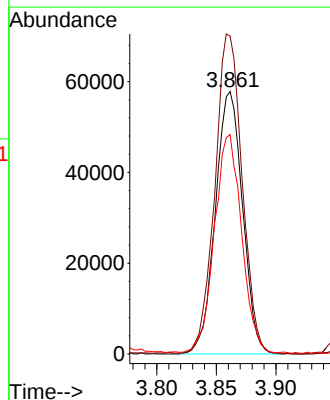
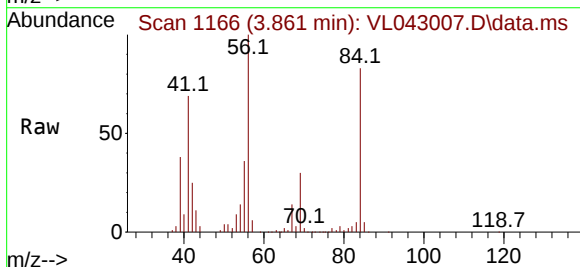
Tgt Ion: 84 Resp: 91897

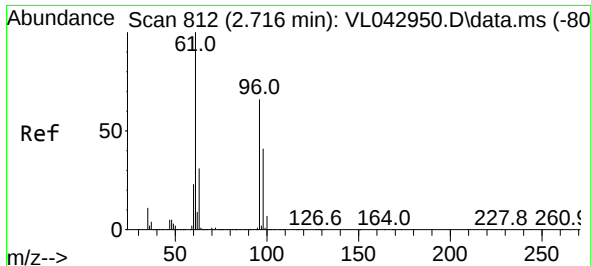
Ion Ratio Lower Upper

84 100

56 122.4 102.2 153.4

41 84.0 65.6 98.4

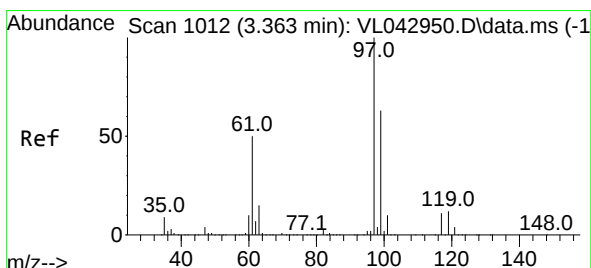
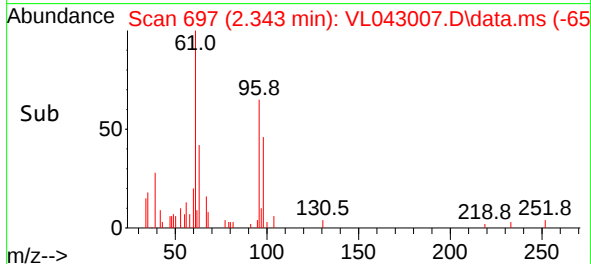
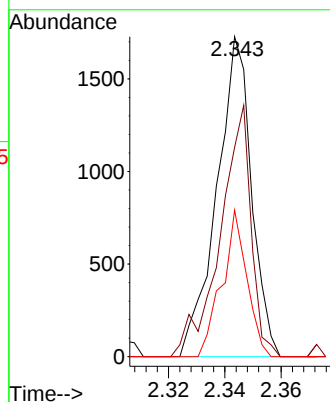
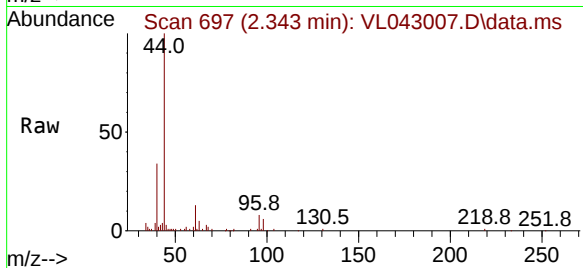




#31
 cis-1,2-Dichloroethene
 Concen: 0.068 ppbv
 RT: 2.343 min Scan# 61
 Delta R.T. -0.372 min
 Lab File: VL043007.D
 Acq: 24 Sep 2025 13:31

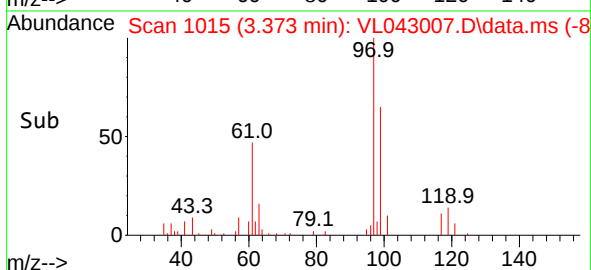
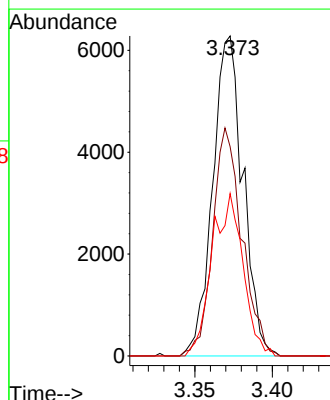
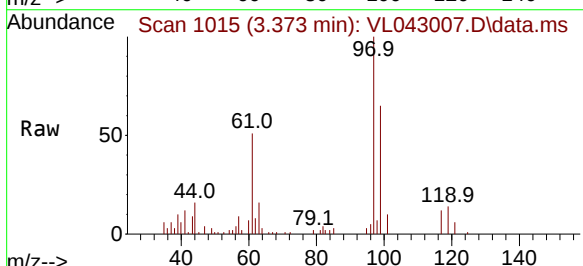
Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

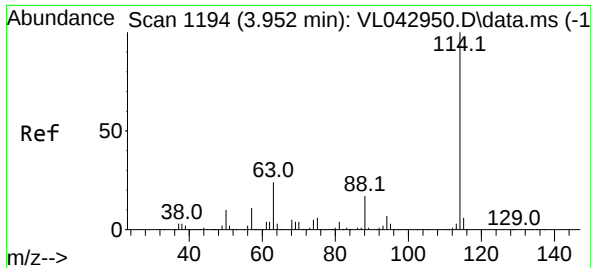
Tgt Ion:	61	Resp:	1477
Ion	Ratio	Lower	Upper
61	100		
96	60.2	53.0	79.6
98	42.2	32.9	49.3



#32
 1,1,1-Trichloroethane
 Concen: 0.263 ppbv
 RT: 3.373 min Scan# 1015
 Delta R.T. 0.010 min
 Lab File: VL043007.D
 Acq: 24 Sep 2025 13:31

Tgt Ion:	97	Resp:	8561
Ion	Ratio	Lower	Upper
97	100		
99	68.8	51.1	76.7
61	51.9	39.8	59.6





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.962 min Scan# 1194

Delta R.T. 0.010 min

Lab File: VL043007.D

Acq: 24 Sep 2025 13:31

Instrument :

MSVOA_L

ClientSampleId :

SV2

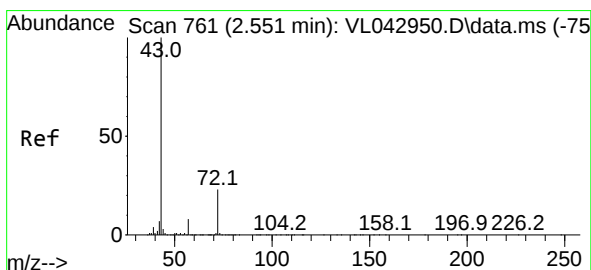
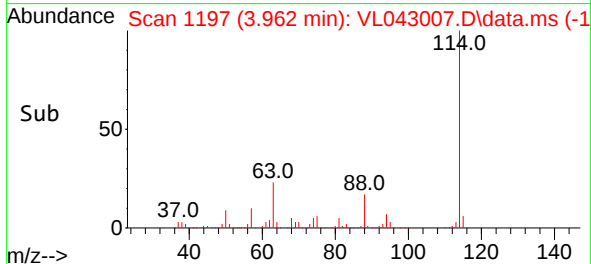
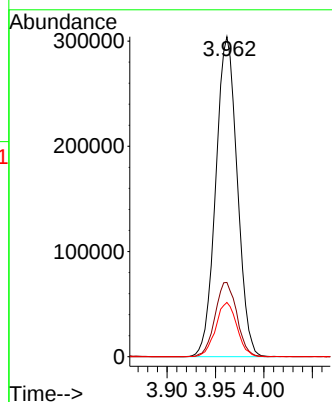
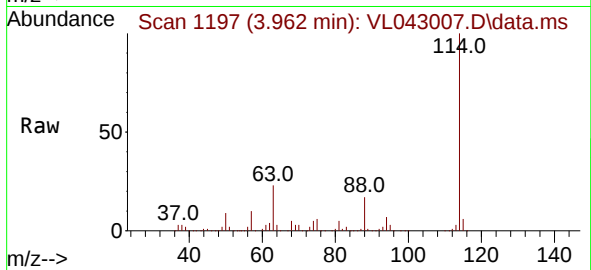
Tgt Ion:114 Resp: 468363

Ion Ratio Lower Upper

114 100

63 23.6 19.4 29.2

88 16.8 14.2 21.2



#34

2-Butanone

Concen: 1.310 ppbv

RT: 2.560 min Scan# 764

Delta R.T. 0.009 min

Lab File: VL043007.D

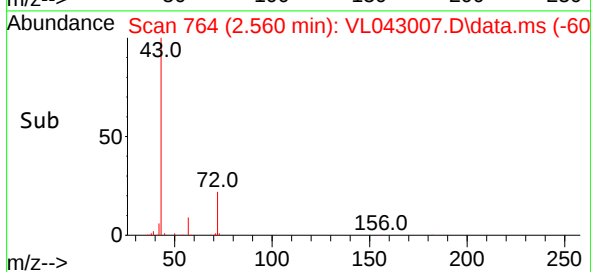
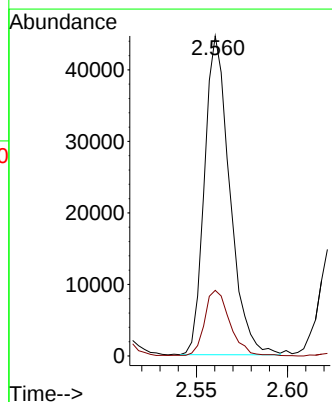
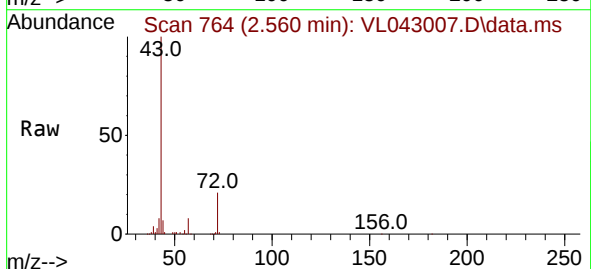
Acq: 24 Sep 2025 13:31

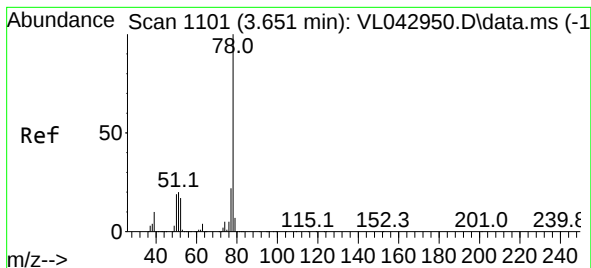
Tgt Ion: 43 Resp: 42998

Ion Ratio Lower Upper

43 100

72 20.8 17.7 26.5





#36

Benzene

Concen: 1.228 ppbv

RT: 3.661 min Scan# 1104

Delta R.T. 0.010 min

Lab File: VL043007.D

Acq: 24 Sep 2025 13:31

Instrument :

MSVOA_L

ClientSampleId :

SV2

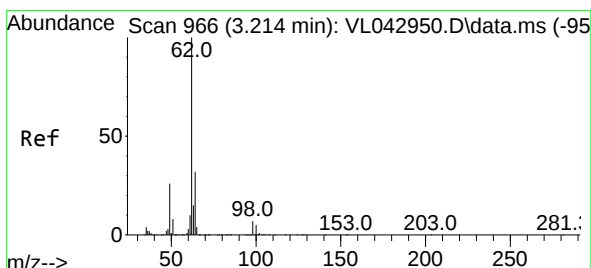
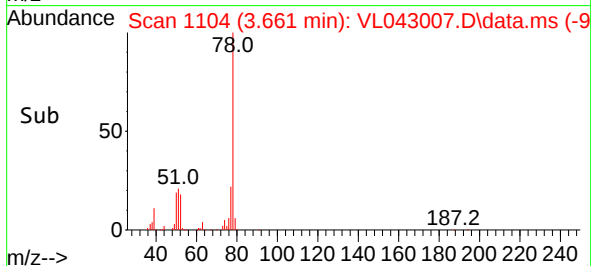
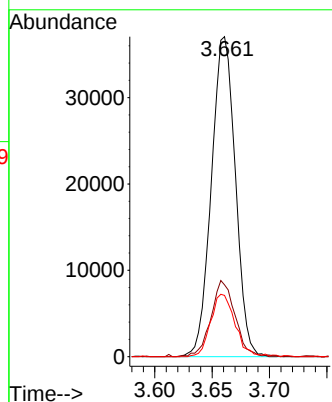
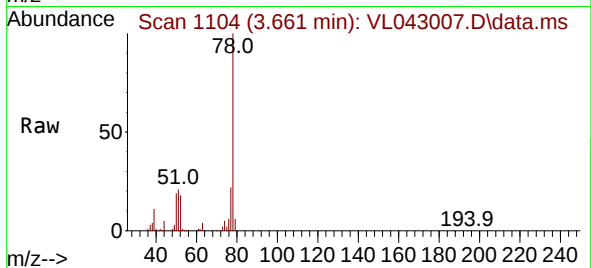
Tgt Ion: 78 Resp: 53997

Ion Ratio Lower Upper

78 100

77 22.3 17.8 26.6

50 19.2 15.0 22.4



#37

1,2-Dichloroethane

Concen: 0.040 ppbv

RT: 3.230 min Scan# 971

Delta R.T. 0.016 min

Lab File: VL043007.D

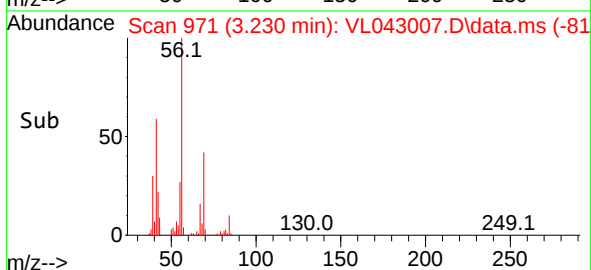
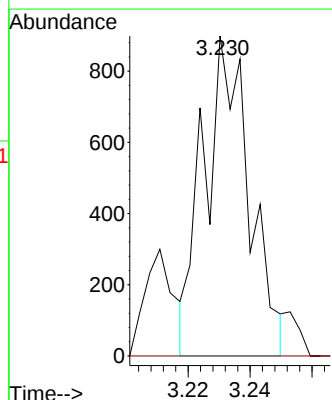
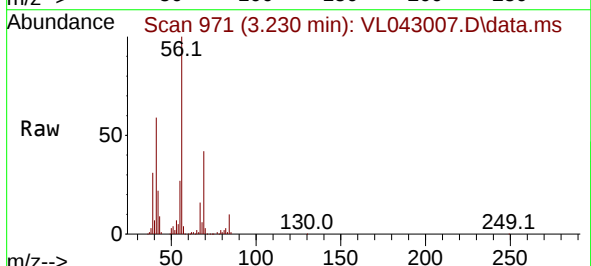
Acq: 24 Sep 2025 13:31

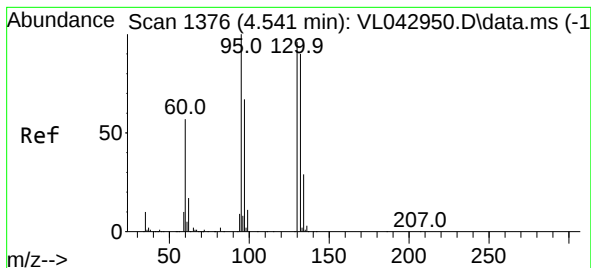
Tgt Ion: 62 Resp: 916

Ion Ratio Lower Upper

62 100

98 0.0 5.9 8.9#





#38

Trichloroethene

Concen: 0.789 ppbv

RT: 4.551 min Scan# 1197

Delta R.T. 0.010 min

Lab File: VL043007.D

Acq: 24 Sep 2025 13:31

Instrument :

MSVOA_L

ClientSampleId :

SV2

Tgt Ion:130 Resp: 17242

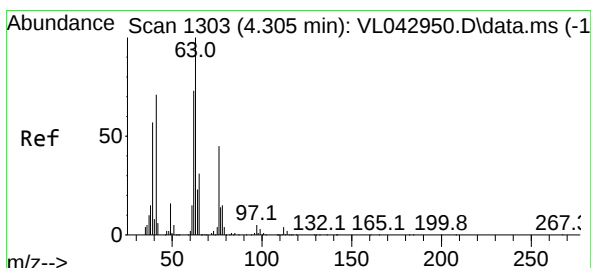
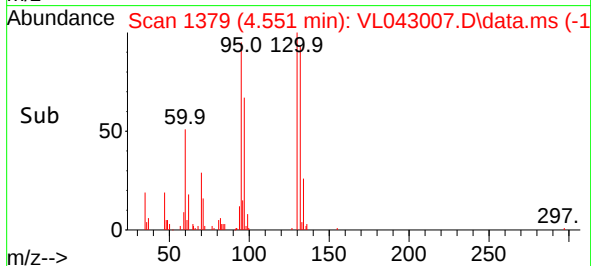
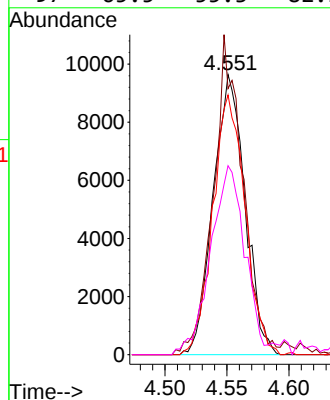
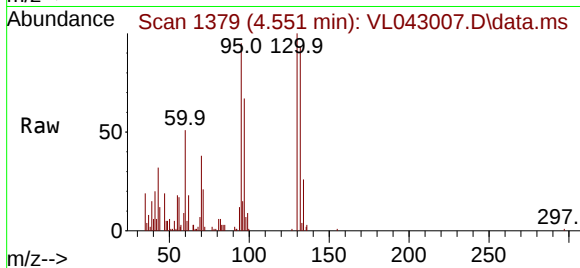
Ion Ratio Lower Upper

130 100

95 93.7 83.0 124.4

132 92.7 74.6 112.0

97 65.5 55.3 82.9



#39

1,2-Dichloropropane

Concen: 6.883 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. -0.343 min

Lab File: VL043007.D

Acq: 24 Sep 2025 13:31

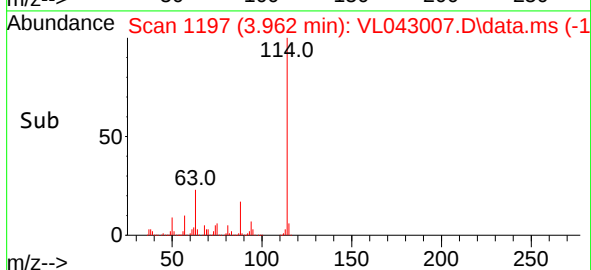
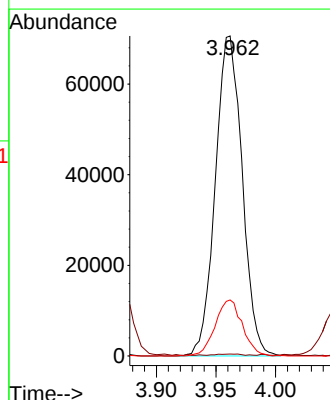
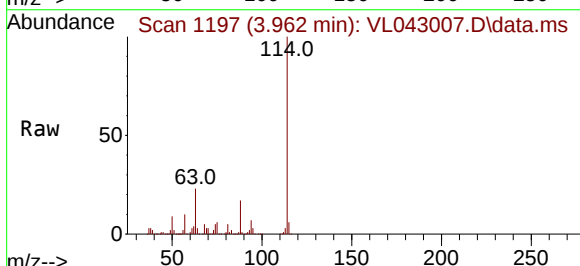
Tgt Ion: 63 Resp: 110514

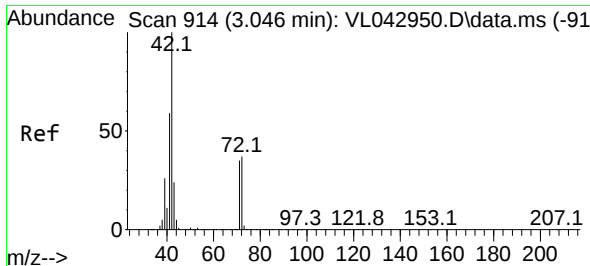
Ion Ratio Lower Upper

63 100

41 0.6 57.5 86.3#

62 17.3 58.5 87.7#

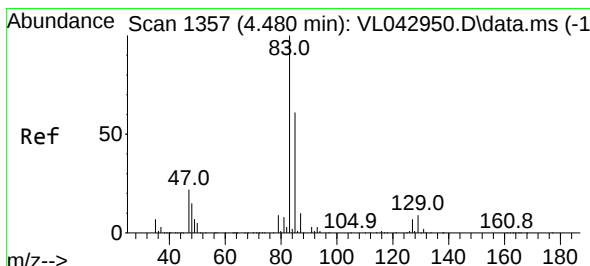
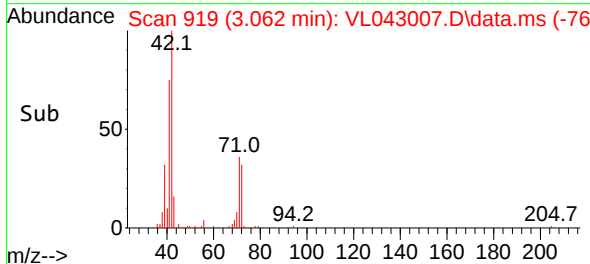
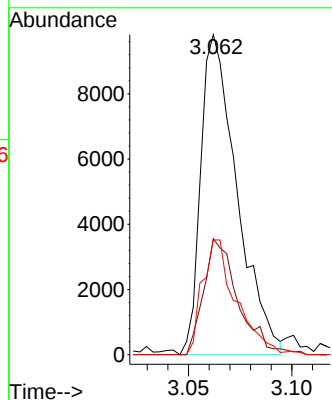
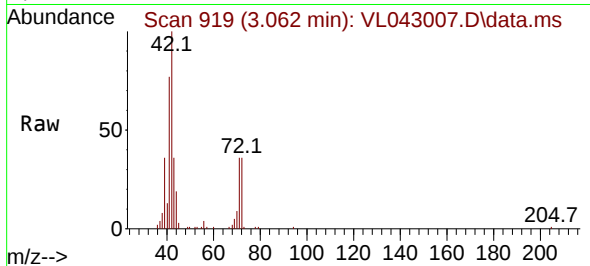




#41
Tetrahydrofuran
Concen: 0.634 ppbv
RT: 3.062 min Scan# 914
Delta R.T. 0.016 min
Lab File: VL043007.D
Acq: 24 Sep 2025 13:31

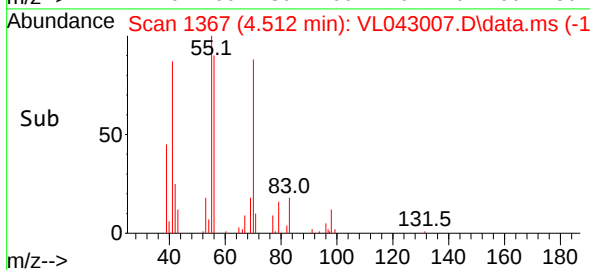
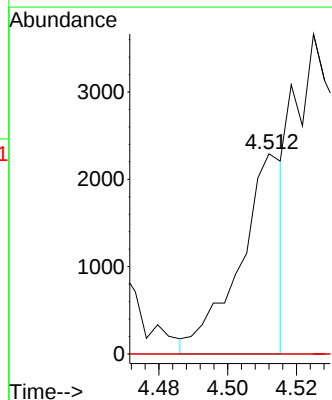
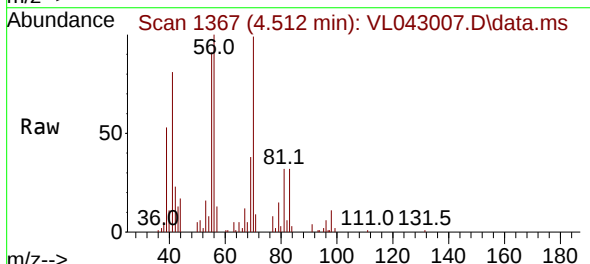
Instrument :
MSVOA_L
ClientSampleId :
SV2

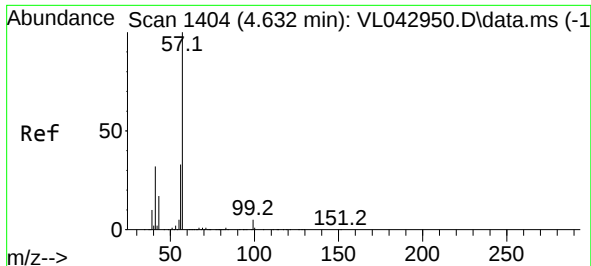
Tgt Ion:	42	Resp:	11968
Ion Ratio	Lower	Upper	
42	100		
72	34.6	30.0	45.0
71	33.7	28.8	43.2



#42
Bromodichloromethane
Concen: 0.062 ppbv
RT: 4.512 min Scan# 1367
Delta R.T. 0.032 min
Lab File: VL043007.D
Acq: 24 Sep 2025 13:31

Tgt Ion:	83	Resp:	1996
Ion Ratio	Lower	Upper	
83	100		
85	0.0	49.0	73.6#
127	0.0	5.3	7.9#

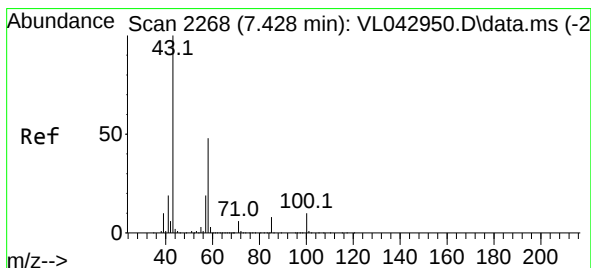
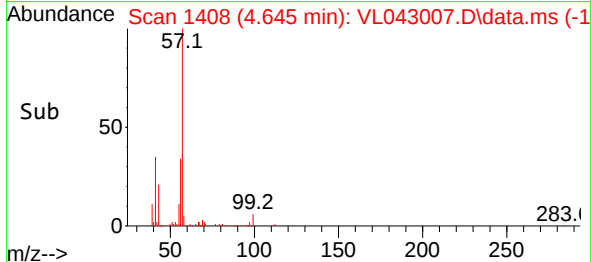
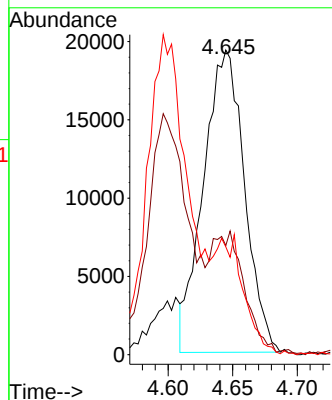
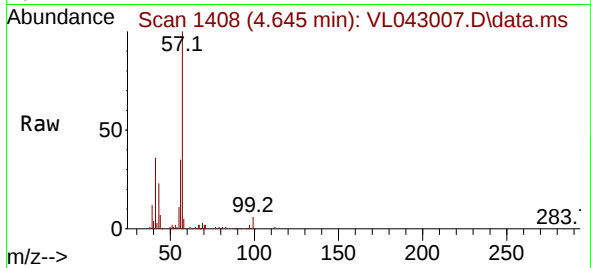




#44
2,2,4-Trimethylpentane
Concen: 0.562 ppbv
RT: 4.645 min Scan# 1404
Delta R.T. 0.013 min
Lab File: VL043007.D
Acq: 24 Sep 2025 13:31

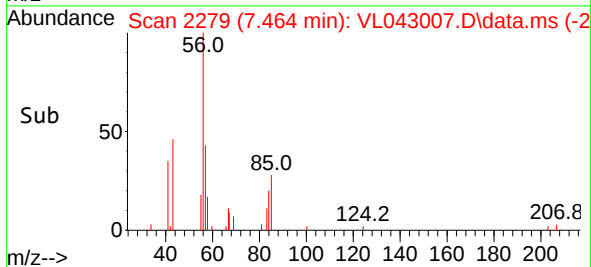
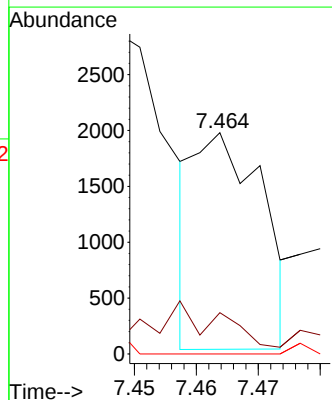
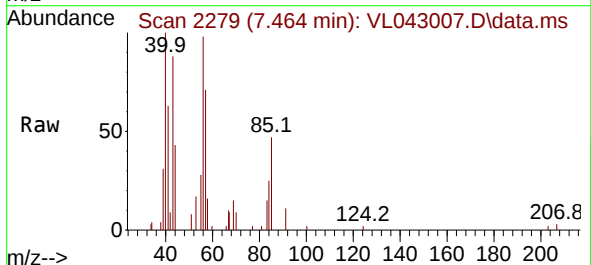
Instrument :
MSVOA_L
ClientSampleId :
SV2

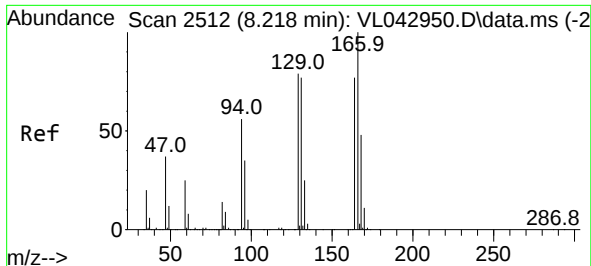
Tgt Ion: 57 Resp: 42705
Ion Ratio Lower Upper
57 100
41 33.8 25.5 38.3
56 0.0 25.8 38.8#



#51
2-Hexanone
Concen: 0.042 ppbv
RT: 7.464 min Scan# 2279
Delta R.T. 0.035 min
Lab File: VL043007.D
Acq: 24 Sep 2025 13:31

Tgt Ion: 43 Resp: 1480
Ion Ratio Lower Upper
43 100
58 44.5 39.7 59.5
98 0.0 0.1 0.1#

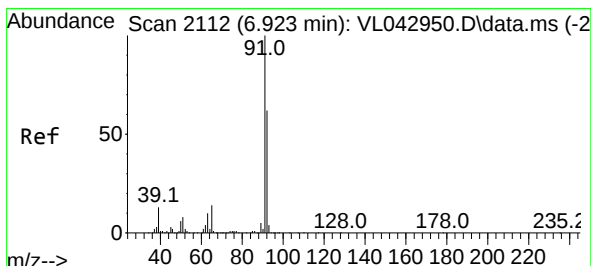
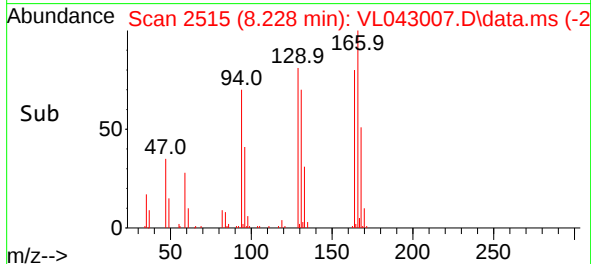
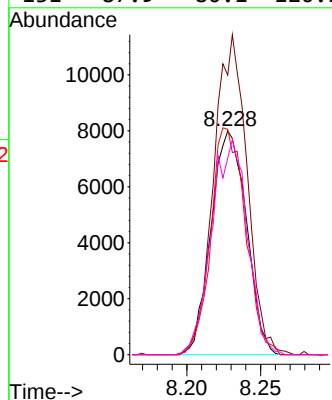
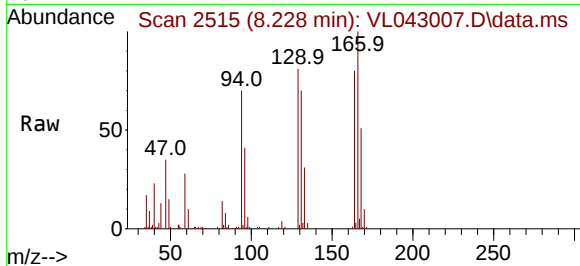




#52
Tetrachloroethene
Concen: 0.782 ppbv
RT: 8.228 min Scan# 2115
Delta R.T. 0.010 min
Lab File: VL043007.D
Acq: 24 Sep 2025 13:31

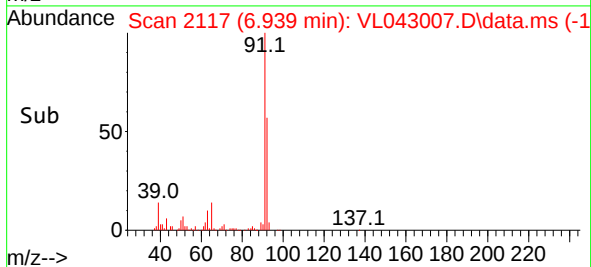
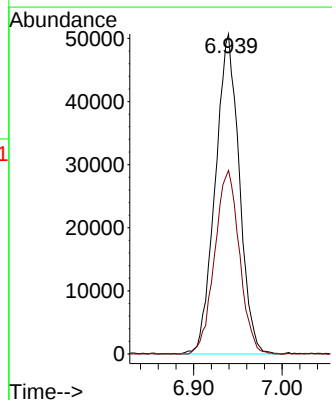
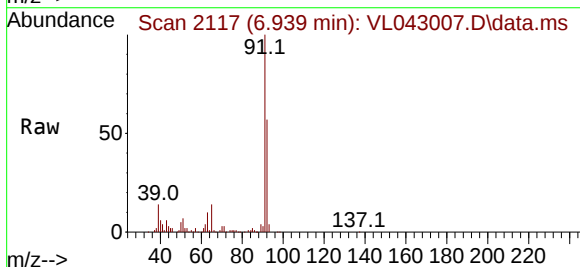
Instrument :
MSVOA_L
ClientSampleId :
SV2

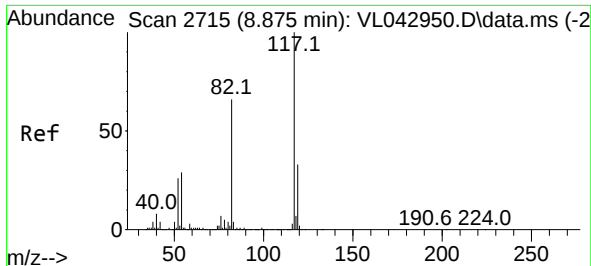
Tgt Ion:164 Resp: 13311
Ion Ratio Lower Upper
164 100
166 125.0 103.5 155.3
129 100.8 82.2 123.4
131 87.9 80.1 120.1



#53
Toluene
Concen: 1.837 ppbv
RT: 6.939 min Scan# 2117
Delta R.T. 0.016 min
Lab File: VL043007.D
Acq: 24 Sep 2025 13:31

Tgt Ion: 91 Resp: 95651
Ion Ratio Lower Upper
91 100
92 59.1 48.2 72.2

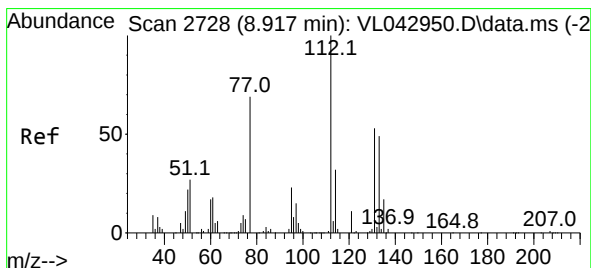
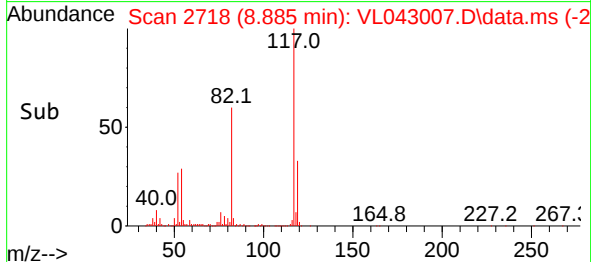
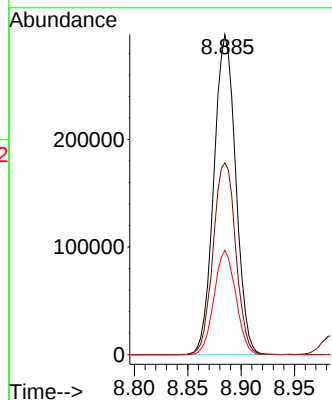
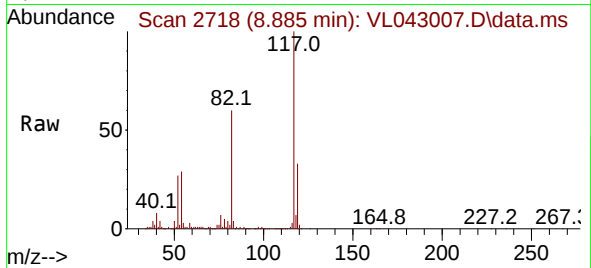




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2715
Delta R.T. 0.010 min
Lab File: VL043007.D
Acq: 24 Sep 2025 13:31

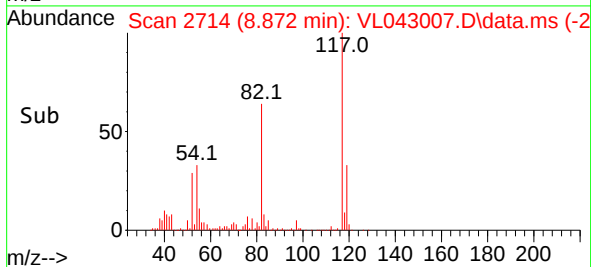
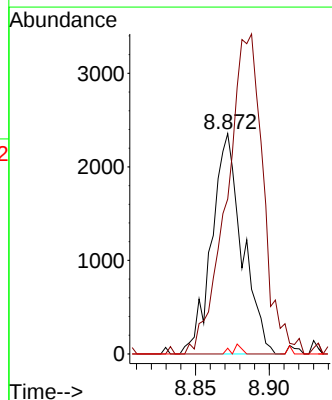
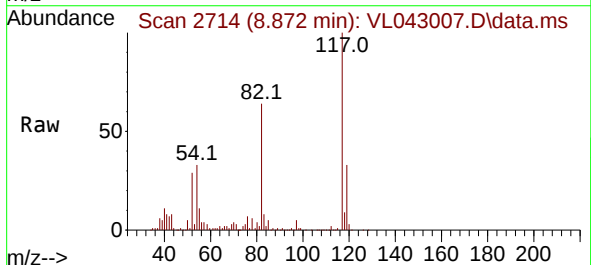
Instrument :
MSVOA_L
ClientSampleId :
SV2

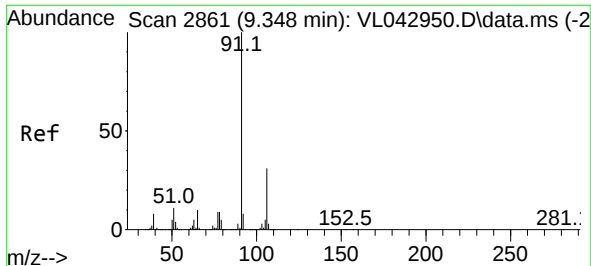
Tgt Ion:117 Resp: 423322
Ion Ratio Lower Upper
117 100
82 62.2 52.8 79.2
119 32.6 26.5 39.7



#57
Chlorobenzene
Concen: 0.088 ppbv
RT: 8.872 min Scan# 2714
Delta R.T. -0.046 min
Lab File: VL043007.D
Acq: 24 Sep 2025 13:31

Tgt Ion:112 Resp: 3389
Ion Ratio Lower Upper
112 100
77 70.3 55.7 83.5
114 2.6 28.6 35.0

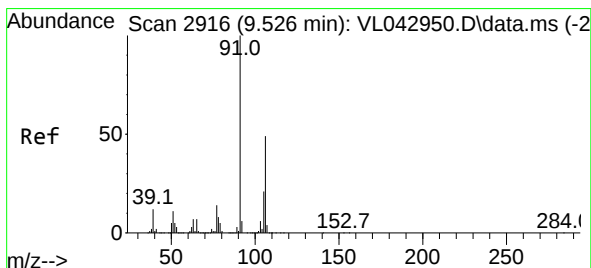
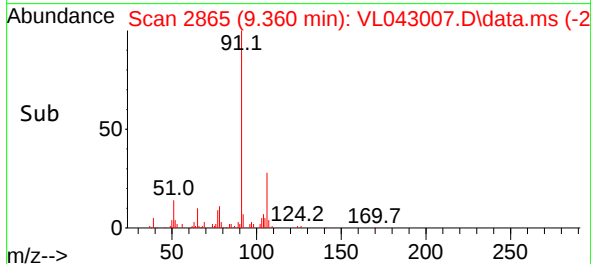
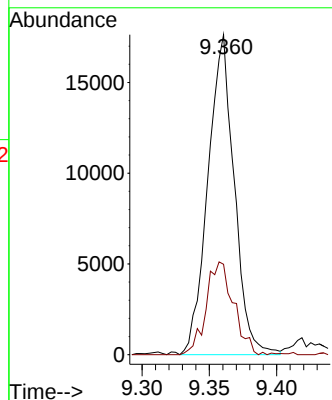
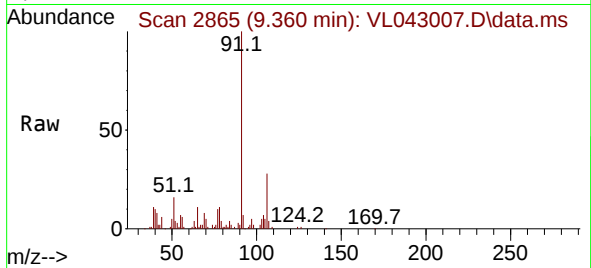




#58
Ethyl Benzene
Concen: 0.345 ppbv
RT: 9.360 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL043007.D
Acq: 24 Sep 2025 13:31

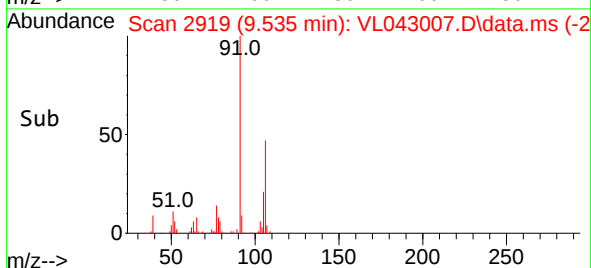
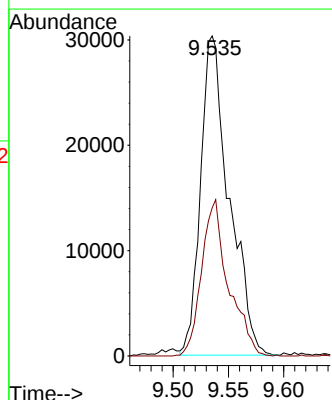
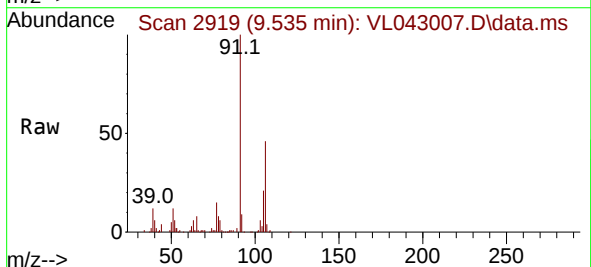
Instrument :
MSVOA_L
ClientSampleId :
SV2

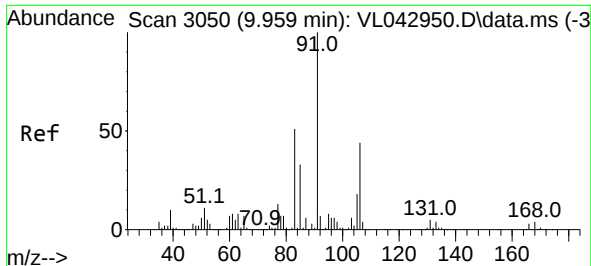
Tgt Ion: 91 Resp: 23962
Ion Ratio Lower Upper
91 100
106 28.3 24.6 37.0



#59
m/p-Xylene
Concen: 0.993 ppbv
RT: 9.535 min Scan# 2919
Delta R.T. 0.009 min
Lab File: VL043007.D
Acq: 24 Sep 2025 13:31

Tgt Ion: 91 Resp: 54439
Ion Ratio Lower Upper
91 100
106 46.1 0.0 0.0#

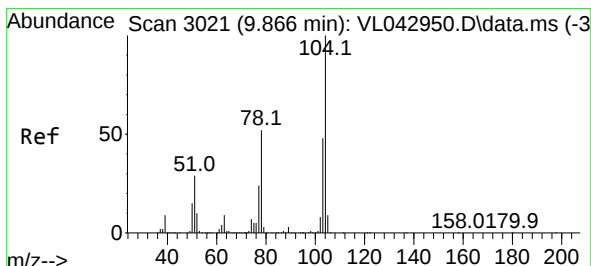
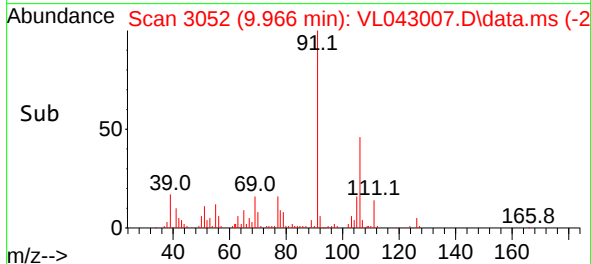
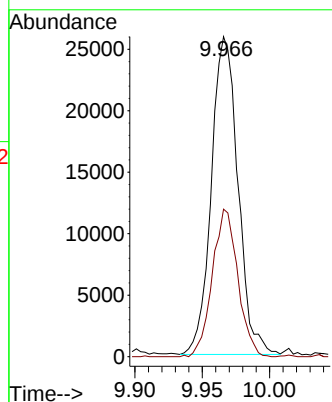
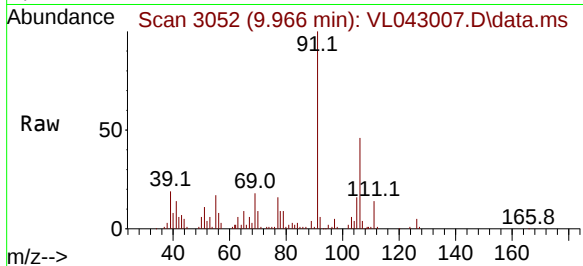




#60
o-Xylene
Concen: 0.649 ppbv
RT: 9.966 min Scan# 3050
Delta R.T. 0.006 min
Lab File: VL043007.D
Acq: 24 Sep 2025 13:31

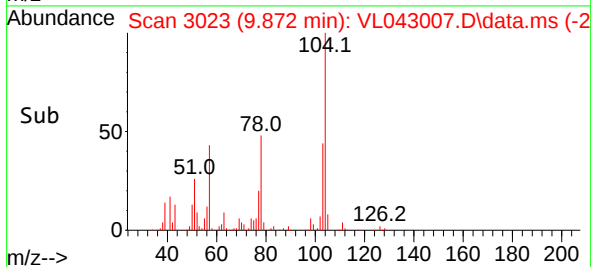
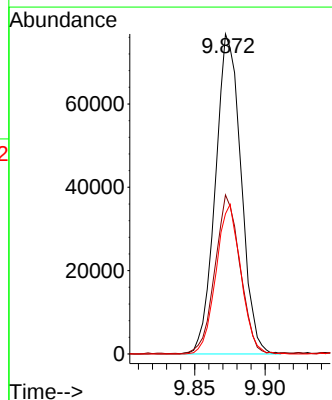
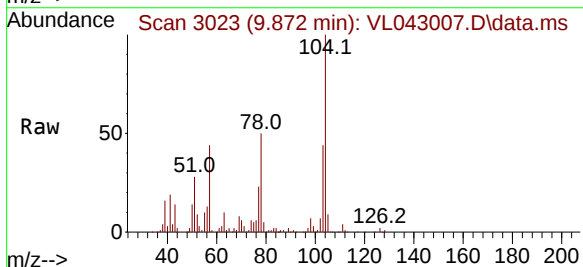
Instrument :
MSVOA_L
ClientSampleId :
SV2

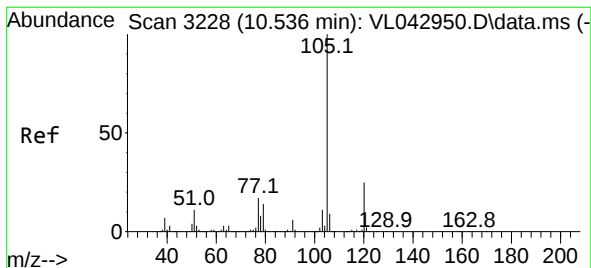
Tgt Ion: 91 Resp: 35535
Ion Ratio Lower Upper
91 100
106 44.4 22.4 67.0



#61
Styrene
Concen: 3.758 ppbv
RT: 9.872 min Scan# 3023
Delta R.T. 0.006 min
Lab File: VL043007.D
Acq: 24 Sep 2025 13:31

Tgt Ion: 104 Resp: 97357
Ion Ratio Lower Upper
104 100
78 49.3 39.9 59.9
103 45.2 36.9 55.3





#62

Isopropylbenzene

Concen: 0.093 ppbv

RT: 10.542 min Scan# 31

Delta R.T. 0.006 min

Lab File: VL043007.D

Acq: 24 Sep 2025 13:31

Instrument :

MSVOA_L

ClientSampleId :

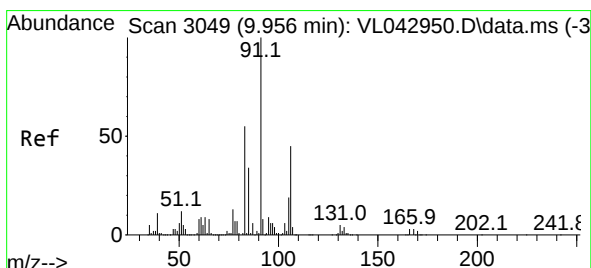
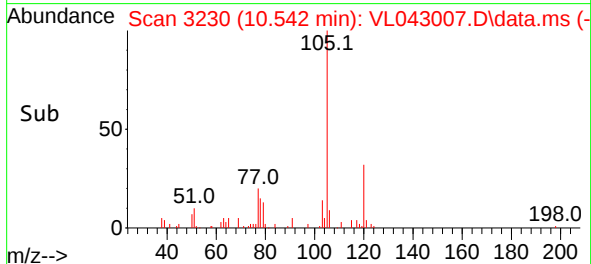
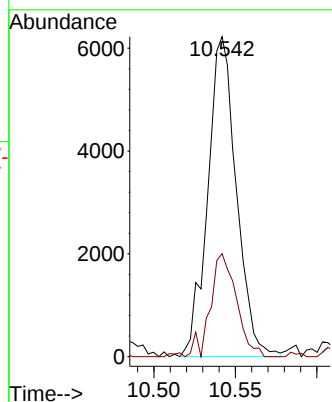
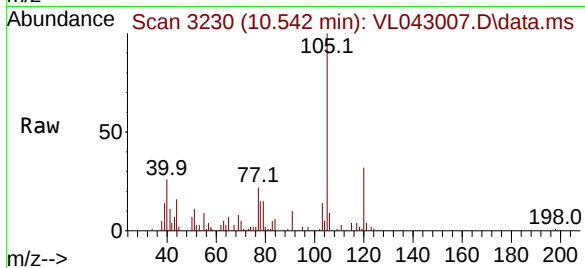
SV2

Tgt Ion:105 Resp: 7621

Ion Ratio Lower Upper

105 100

120 29.6 20.6 30.8



#63

1,1,2,2-Tetrachloroethane

Concen: 0.068 ppbv

RT: 9.950 min Scan# 3047

Delta R.T. -0.007 min

Lab File: VL043007.D

Acq: 24 Sep 2025 13:31

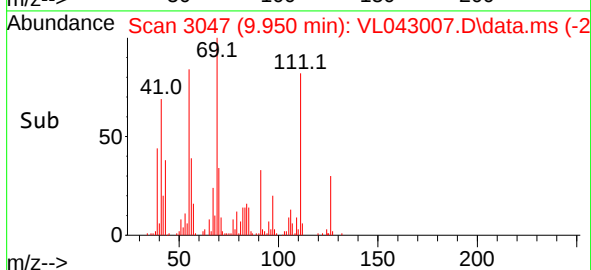
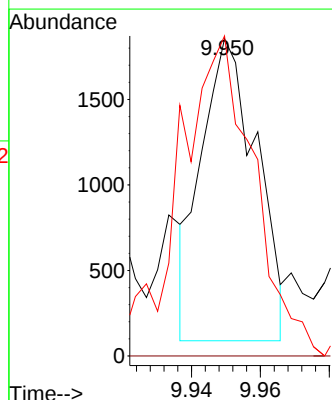
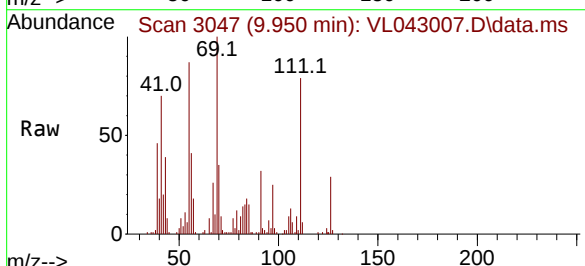
Tgt Ion: 83 Resp: 1967

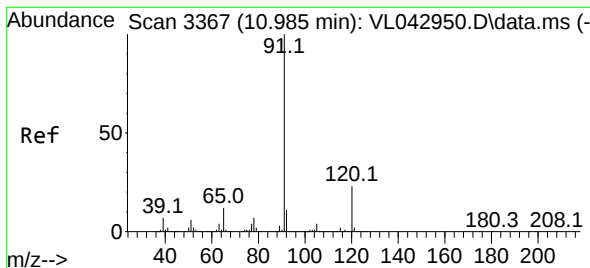
Ion Ratio Lower Upper

83 100

131 0.0 4.8 14.4#

85 145.5 32.2 96.6#





#64

n-propylbenzene

Concen: 0.107 ppbv

RT: 10.992 min Scan# 31

Delta R.T. 0.006 min

Lab File: VL043007.D

Acq: 24 Sep 2025 13:31

Instrument :

MSVOA_L

ClientSampleId :

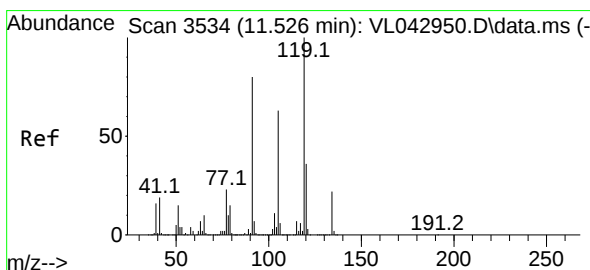
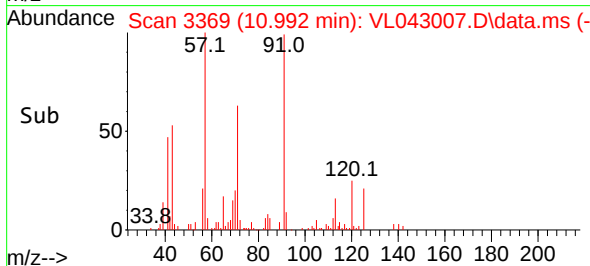
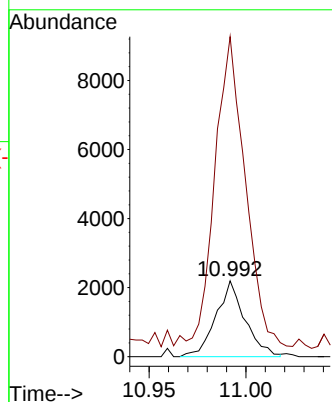
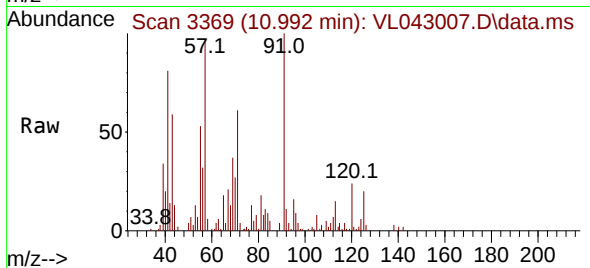
SV2

Tgt Ion:120 Resp: 2293

Ion Ratio Lower Upper

120 100

91 425.6 364.9 547.3



#65

tert-Butylbenzene

Concen: 0.045 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. 0.013 min

Lab File: VL043007.D

Acq: 24 Sep 2025 13:31

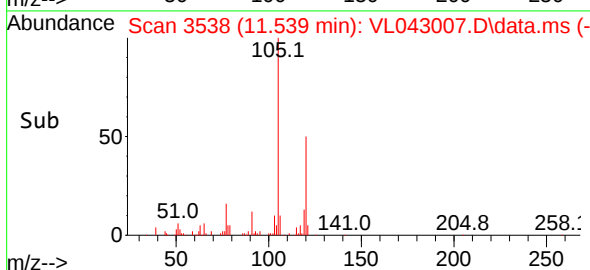
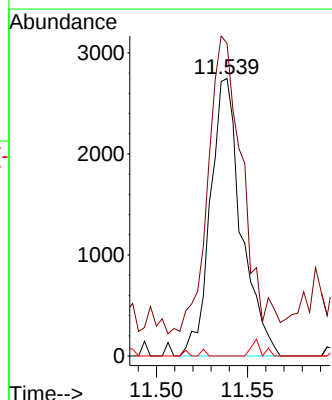
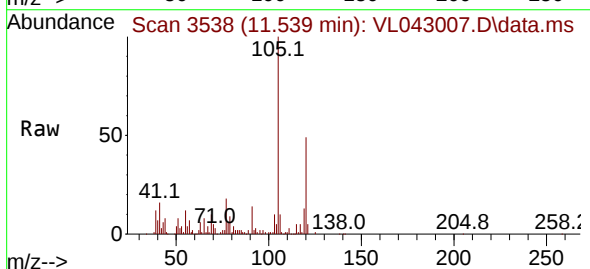
Tgt Ion:119 Resp: 3245

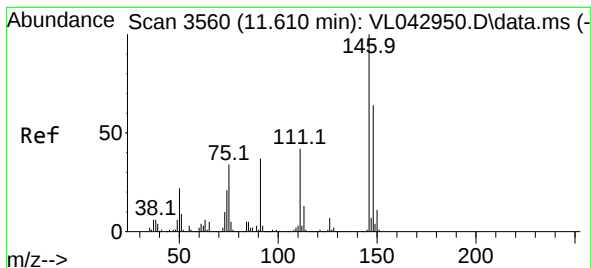
Ion Ratio Lower Upper

119 100

91 130.4 63.1 94.7#

134 1.9 17.0 25.6#

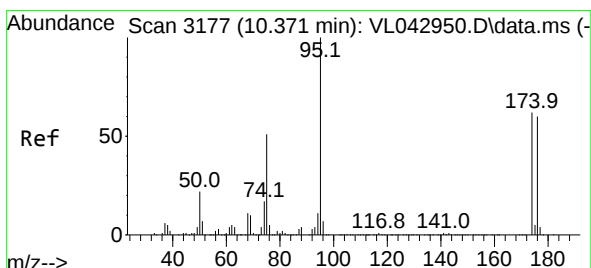
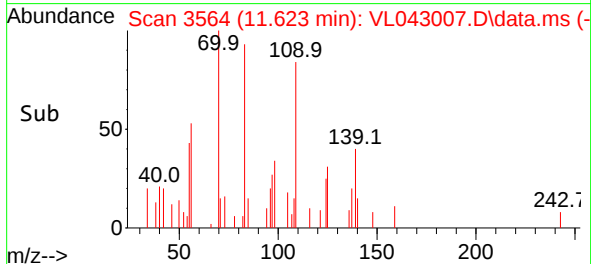
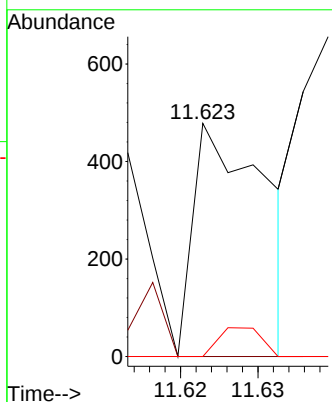
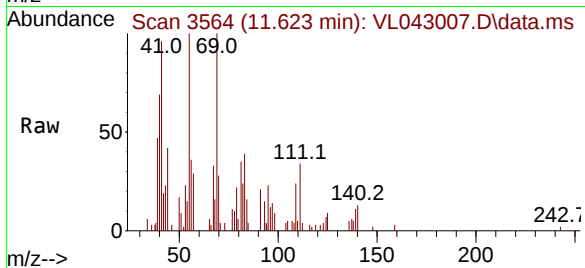




#66
Benzyl Chloride
Concen: 0.041 ppbv
RT: 11.623 min Scan# 3180
Delta R.T. 0.013 min
Lab File: VL043007.D
Acq: 24 Sep 2025 13:31

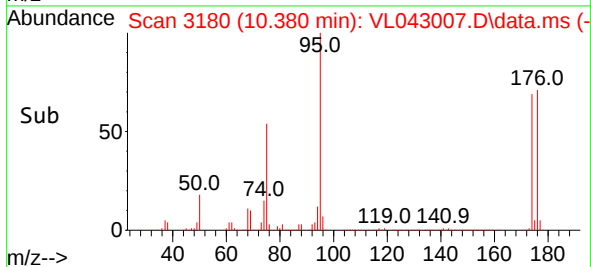
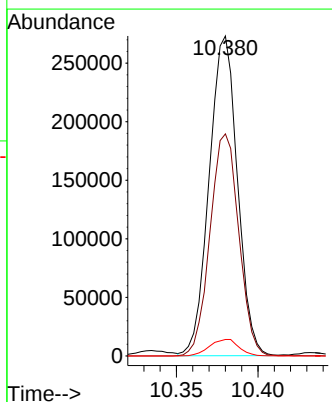
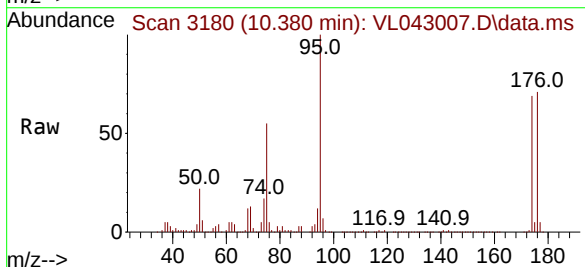
Instrument :
MSVOA_L
ClientSampleId :
SV2

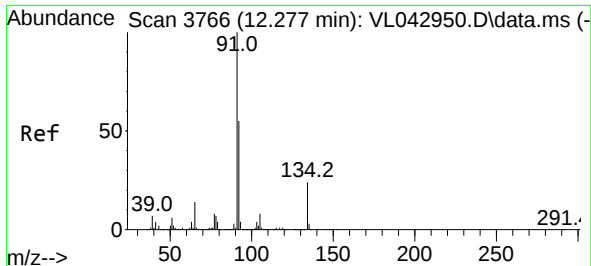
Tgt Ion: 91 Resp: 309
Ion Ratio Lower Upper
91 100
126 17.8 14.6 21.8
128 7.4 5.0 7.4#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.419 ppbv
RT: 10.380 min Scan# 3180
Delta R.T. 0.009 min
Lab File: VL043007.D
Acq: 24 Sep 2025 13:31

Tgt Ion: 95 Resp: 329247
Ion Ratio Lower Upper
95 100
174 70.8 51.4 77.2
175 5.4 4.0 6.0

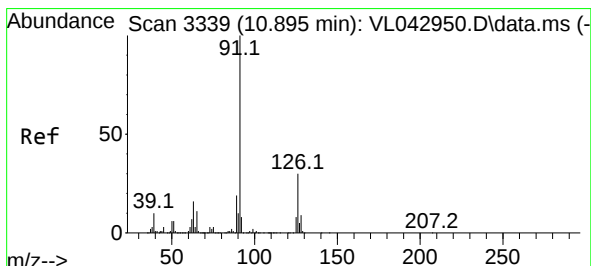
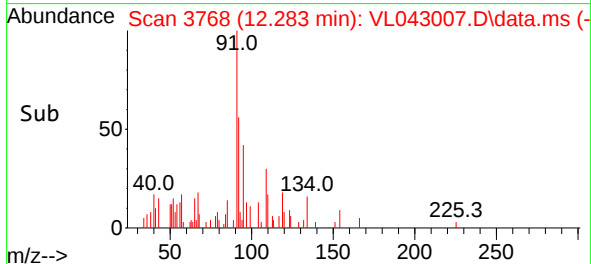
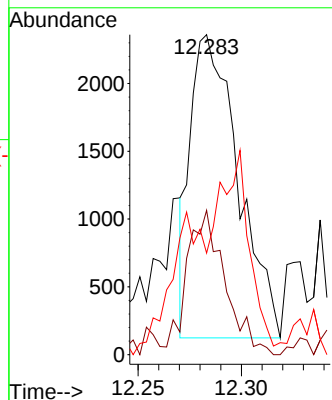
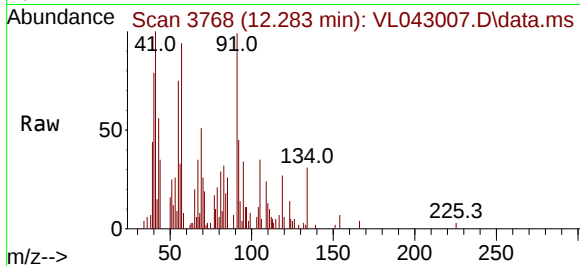




#70
n-Butylbenzene
Concen: 0.043 ppbv
RT: 12.283 min Scan# 31
Delta R.T. 0.006 min
Lab File: VL043007.D
Acq: 24 Sep 2025 13:31

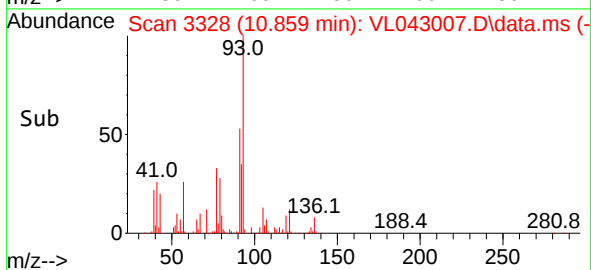
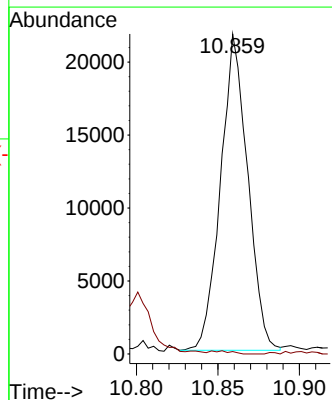
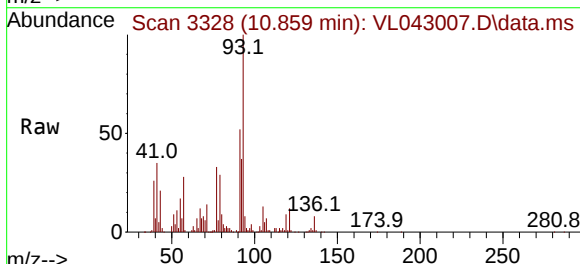
Instrument :
MSVOA_L
ClientSampleId :
SV2

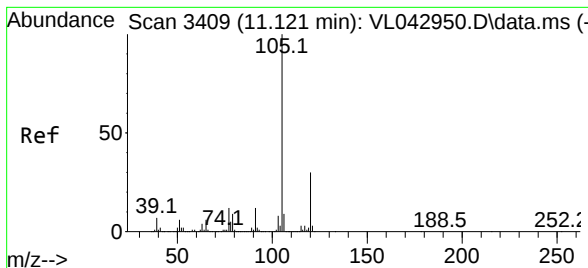
Tgt Ion: 91 Resp: 3592
Ion Ratio Lower Upper
91 100
92 41.1 44.0 66.0#
134 86.1 19.4 29.2#



#71
2-Chlorotoluene
Concen: 0.407 ppbv
RT: 10.859 min Scan# 3328
Delta R.T. -0.036 min
Lab File: VL043007.D
Acq: 24 Sep 2025 13:31

Tgt Ion: 91 Resp: 25075
Ion Ratio Lower Upper
91 100
126 0.8 12.3 49.3#

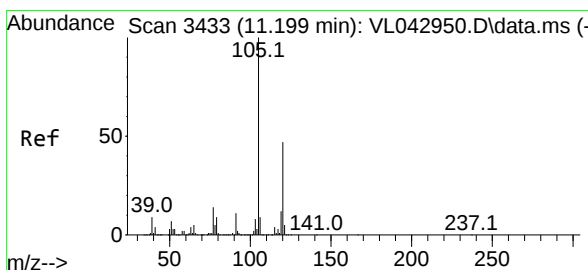
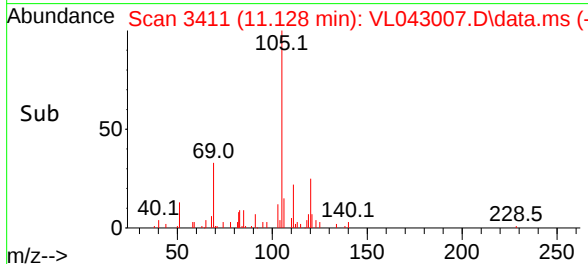
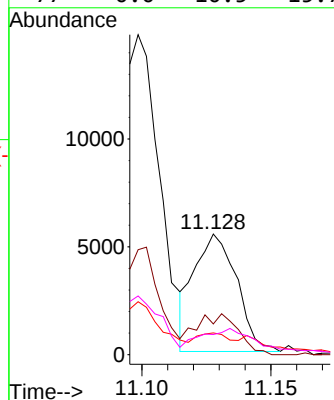
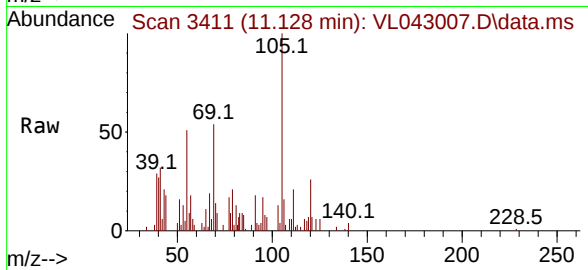




#72
4-Ethyltoluene
Concen: 0.092 ppbv
RT: 11.128 min Scan# 3409
Delta R.T. 0.006 min
Lab File: VL043007.D
Acq: 24 Sep 2025 13:31

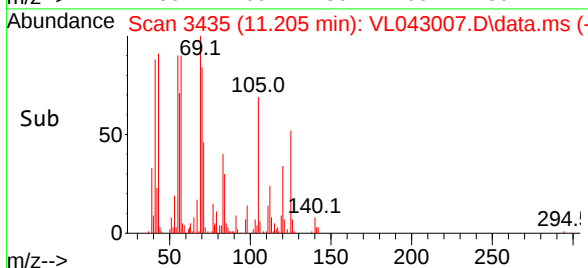
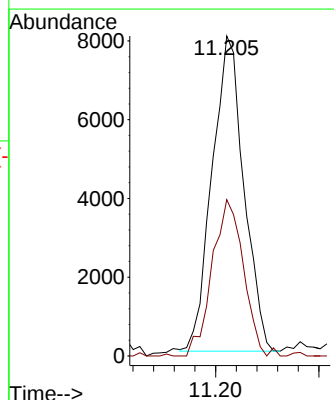
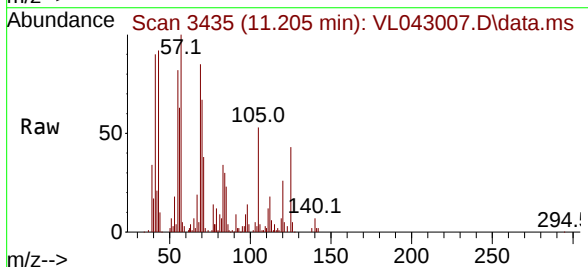
Instrument :
MSVOA_L
ClientSampleId :
SV2

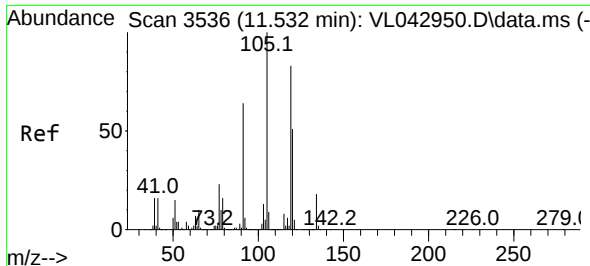
Tgt Ion:105	Resp:	6285
Ion Ratio	Lower	Upper
105	100	
120	0.0	24.2 36.2#
91	0.0	10.0 15.0#
77	0.0	10.5 15.7#



#73
1,3,5-Trimethylbenzene
Concen: 0.154 ppbv
RT: 11.205 min Scan# 3435
Delta R.T. 0.006 min
Lab File: VL043007.D
Acq: 24 Sep 2025 13:31

Tgt Ion:105	Resp:	8544
Ion Ratio	Lower	Upper
105	100	
120	49.6	38.0 57.0

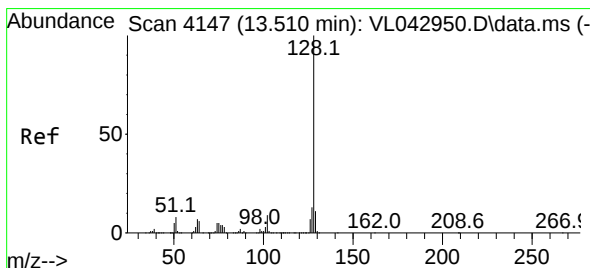
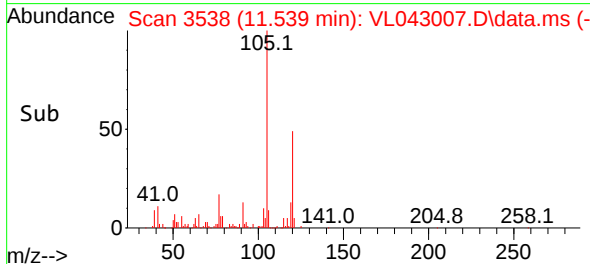
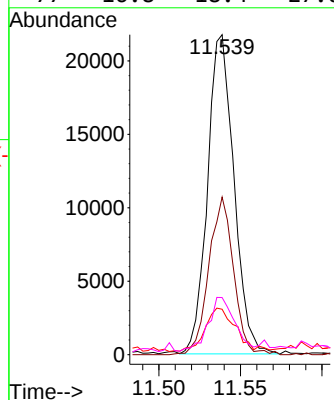
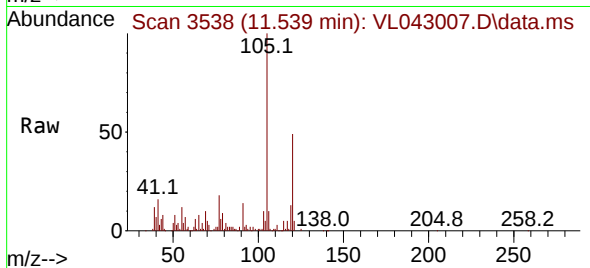




#74
1,2,4-Trimethylbenzene
Concen: 0.399 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.006 min
Lab File: VL043007.D
Acq: 24 Sep 2025 13:31

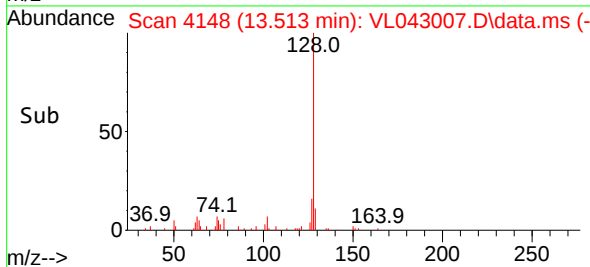
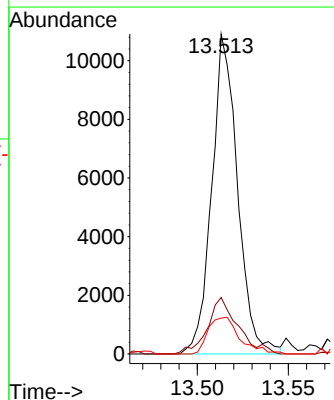
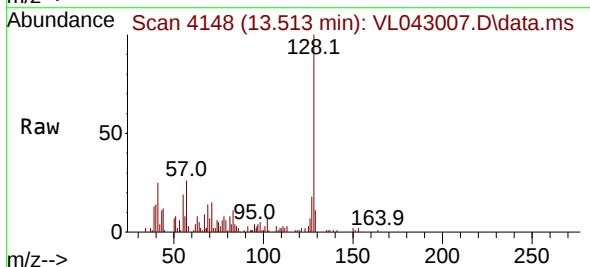
Instrument :
MSVOA_L
ClientSampleId :
SV2

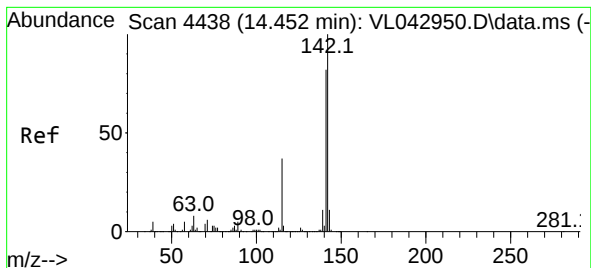
Tgt Ion:	105	Resp:	24496
Ion Ratio	Lower	Upper	
105	100		
120	49.0	40.9	61.3
91	13.1	51.2	76.8#
77	16.8	18.4	27.6#



#79
Naphthalene
Concen: 0.198 ppbv
RT: 13.513 min Scan# 4148
Delta R.T. 0.003 min
Lab File: VL043007.D
Acq: 24 Sep 2025 13:31

Tgt Ion:	128	Resp:	10737
Ion Ratio	Lower	Upper	
128	100		
127	17.7	10.6	15.8#
129	11.2	9.0	13.6





#80

Naphthalene, 2-methyl-

Concen: 0.386 ppbv

RT: 14.458 min Scan# 4440

Delta R.T. 0.006 min

Lab File: VL043007.D

Acq: 24 Sep 2025 13:31

Instrument :

MSVOA_L

ClientSampleId :

SV2

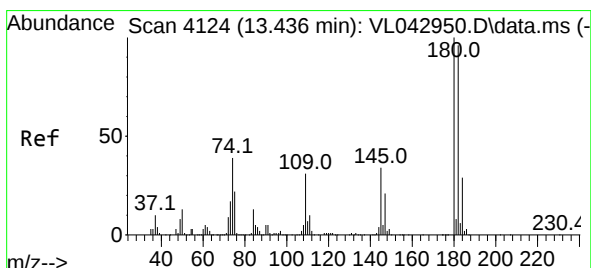
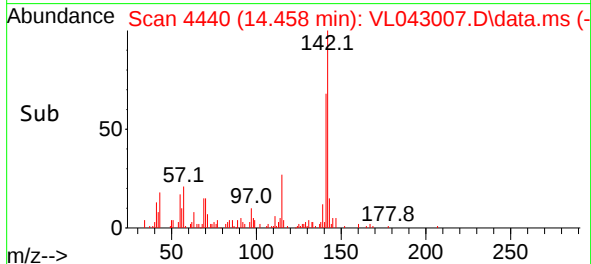
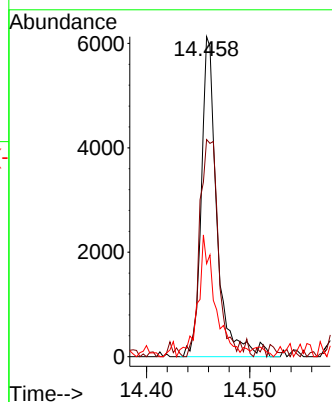
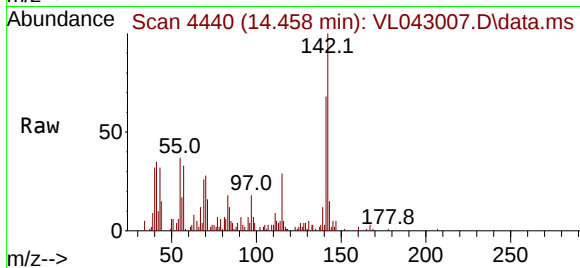
Tgt Ion:142 Resp: 6472

Ion Ratio Lower Upper

142 100

141 84.8 65.1 97.7

115 43.7 28.9 43.3#



#81

1,2,4-Trichlorobenzene

Concen: 0.033 ppbv

RT: 13.445 min Scan# 4127

Delta R.T. 0.010 min

Lab File: VL043007.D

Acq: 24 Sep 2025 13:31

Tgt Ion:180 Resp: 952

Ion Ratio Lower Upper

180 100

182 143.7 75.7 113.5#

184 36.3 23.9 35.9#

