

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072225\
 Data File : VL042741.D
 Acq On : 22 Jul 2025 21:12
 Operator : SY/MD
 Sample : Q2632-01DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP

Quant Time: Jul 23 03:06:38 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Jul 23 02:51:39 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	111344	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	322913	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	292536	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	243485	10.298	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.000%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.495	85	7171	0.413	ppbv	96
3) Chlorodifluoromethane	1.848	51	1549	0.079	ppbv	96
4) Chloromethane	1.531	50	4476	0.629	ppbv	94
5) Vinyl Chloride	1.648	62	2327	0.331	ppbv #	3
7) Chloroethane	1.706	64	119	0.045	ppbv	90
8) Dichlorotetrafluoroethane	1.495	85	7171	0.489	ppbv #	20
9) Propene	1.884	41	19156	2.746	ppbv	97
10) Heptane	4.972	43	3718	0.192	ppbv #	28
11) Trichlorofluoromethane	1.877	101	4293	0.240	ppbv	94
12) 1,1,2-Trichlorotrifluo...	2.139	101	837	0.060	ppbv	99
13) Ethanol	1.719	45	167054	142.377	ppbv	96
15) Acetone	1.832	43	1266119	67.914	ppbv	92
16) 1,3-Butadiene	1.618	39	4302	0.539	ppbv #	35
17) tert-Butyl alcohol	2.039	59	18690	1.056	ppbv	96
19) Isopropyl Alcohol	1.884	45	203603	20.607	ppbv #	1
20) Methylene Chloride	2.062	84	25276	4.313	ppbv	98
21) Allyl Chloride	2.039	41	20424	1.709	ppbv	84
23) Vinyl Acetate	2.450	43	29630	1.394	ppbv #	95
25) Ethyl Acetate	2.832	43	58251	1.693	ppbv #	96
26) Hexane	2.826	57	19843	1.315	ppbv #	69
27) Carbon Disulfide	2.146	76	1514	0.094	ppbv #	1
30) Cyclohexane	3.852	84	407	0.031	ppbv #	1
31) cis-1,2-Dichloroethene	2.832	61	5869	0.361	ppbv #	29
34) 2-Butanone	2.554	43	114753	5.161	ppbv	98
36) Benzene	3.651	78	6485	0.216	ppbv #	91
37) 1,2-Dichloroethane	3.214	62	35349	1.847	ppbv #	96
39) 1,2-Dichloropropane	3.952	63	84864	7.597	ppbv #	21
41) Tetrahydrofuran	3.052	42	28946	2.582	ppbv #	52
43) Methyl Methacrylate	4.874	69	430	0.037	ppbv #	1
44) 2,2,4-Trimethylpentane	4.635	57	3199	0.065	ppbv #	1
50) 4-Methyl-2-Pentanone	5.745	43	54338	1.865	ppbv #	40
51) 2-Hexanone	7.444	43	2486	0.107	ppbv #	1
52) Tetrachloroethene	8.221	164	4650	0.385	ppbv #	74
53) Toluene	6.926	91	623030	18.420	ppbv	100
58) Ethyl Benzene	9.351	91	59900	1.226	ppbv	97
59) m/p-Xylene	9.529	91	271574	6.947	ppbv	98
60) o-Xylene	9.959	91	154009	3.902	ppbv	100
61) Styrene	9.865	104	15095	0.888	ppbv #	27
62) Isopropylbenzene	10.535	105	28526	0.486	ppbv	100
64) n-propylbenzene	10.985	120	20910	1.413	ppbv	96
65) tert-Butylbenzene	11.532	119	49628	0.945	ppbv #	56
66) Benzyl Chloride	11.535	91	56400	11.292	ppbv #	66
67) sec-Butylbenzene	11.422	105	9845	0.136	ppbv	92

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 Response via : Initial Calibration

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

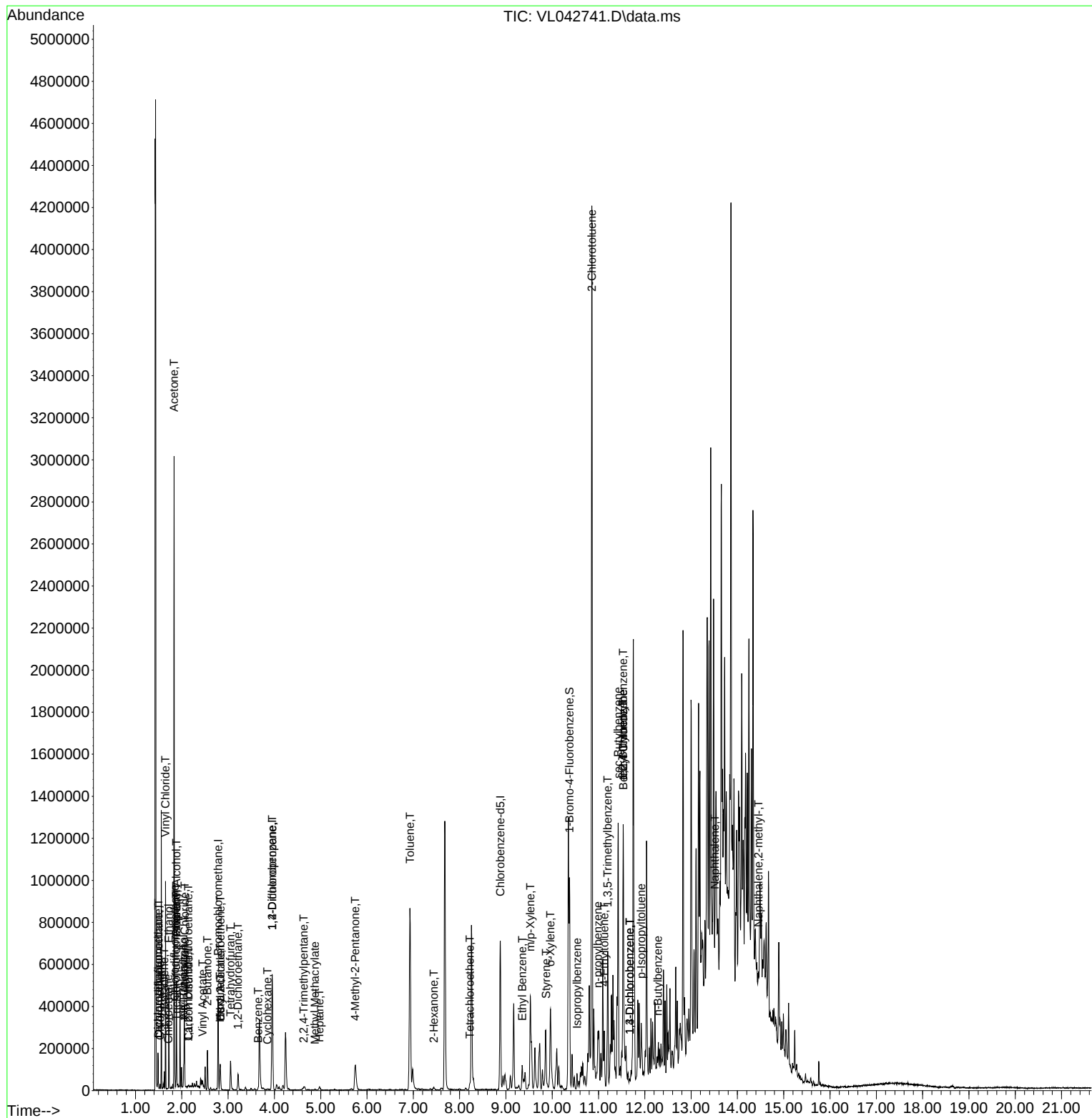
69) p-Isopropyltoluene	11.924	119	90731	1.502	ppbv	99
70) n-Butylbenzene	12.280	91	35372	0.613	ppbv #	45
71) 2-Chlorotoluene	10.856	91	527388	11.856	ppbv #	46
72) 4-Ethyltoluene	11.124	105	99089	2.105	ppbv #	55
73) 1,3,5-Trimethylbenzene	11.199	105	158369	4.068	ppbv	98
74) 1,2,4-Trimethylbenzene	11.532	105	411701	9.639	ppbv #	59
75) 1,3-Dichlorobenzene	11.671	146	4302	0.151	ppbv #	1
76) 1,4-Dichlorobenzene	11.671	146	4302	0.156	ppbv #	1
79) Naphthalene	13.510	128	23579	0.738	ppbv #	92
80) Naphthalene,2-methyl-	14.455	142	3179	0.302	ppbv #	77

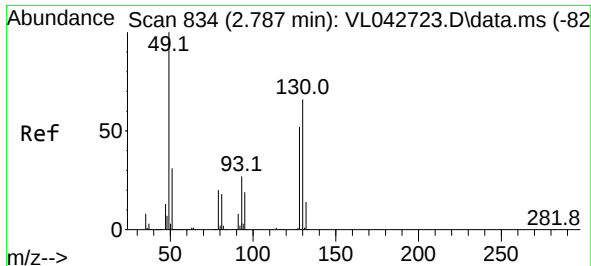
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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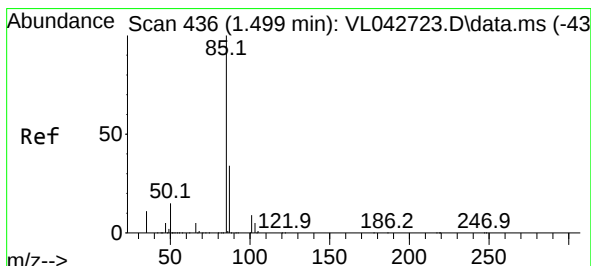
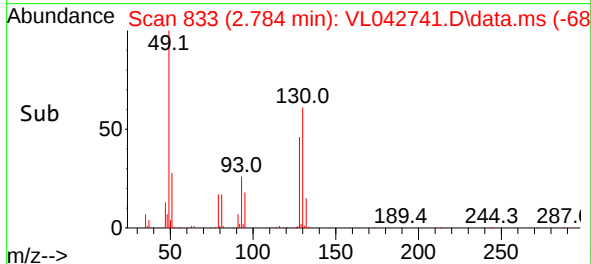
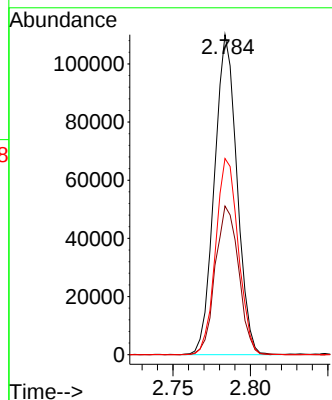
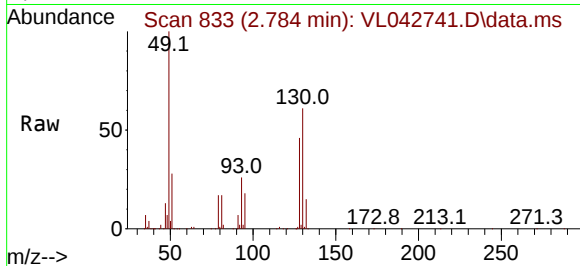




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL042741.D
Acq: 22 Jul 2025 21:12

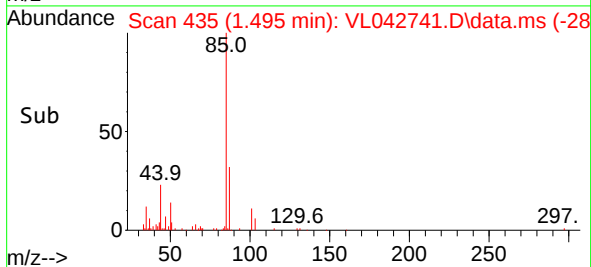
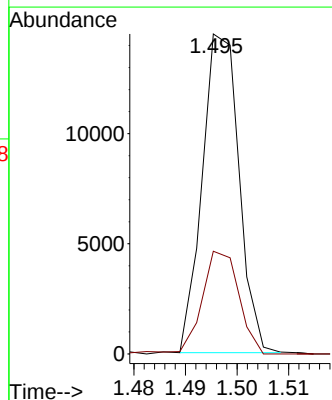
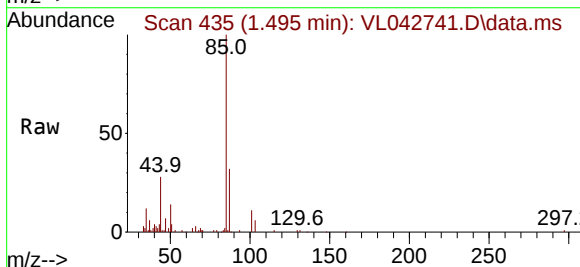
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

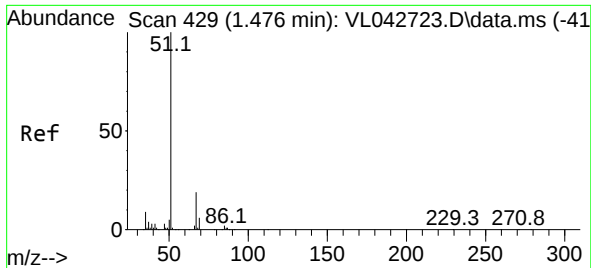
Tgt Ion: 49 Resp: 111344
Ion Ratio Lower Upper
49 100
128 48.2 24.5 73.5
130 61.5 31.7 95.1



#2
Dichlorodifluoromethane
Concen: 0.413 ppbv
RT: 1.495 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042741.D
Acq: 22 Jul 2025 21:12

Tgt Ion: 85 Resp: 7171
Ion Ratio Lower Upper
85 100
87 32.2 27.5 41.3

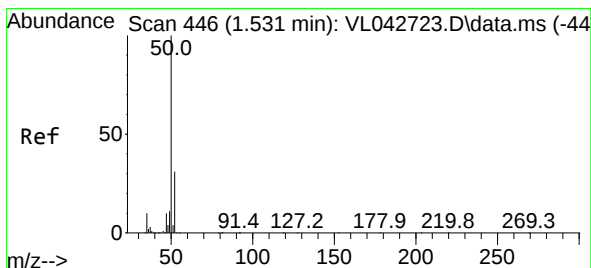
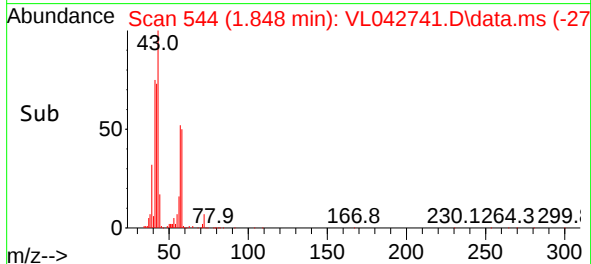
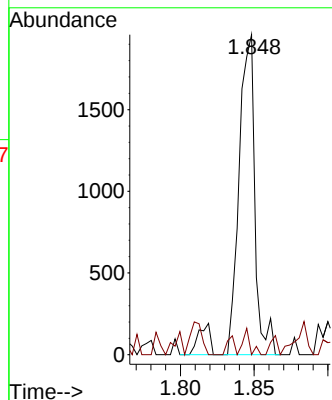
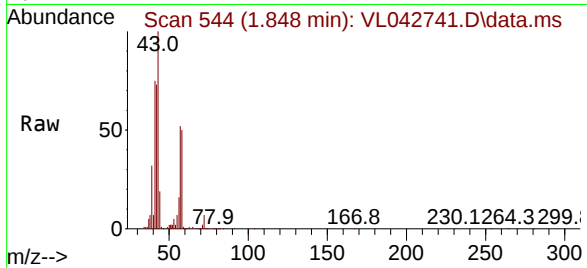




#3
Chlorodifluoromethane
Concen: 0.079 ppbv
RT: 1.848 min Scan# 544
Delta R.T. 0.372 min
Lab File: VL042741.D
Acq: 22 Jul 2025 21:12

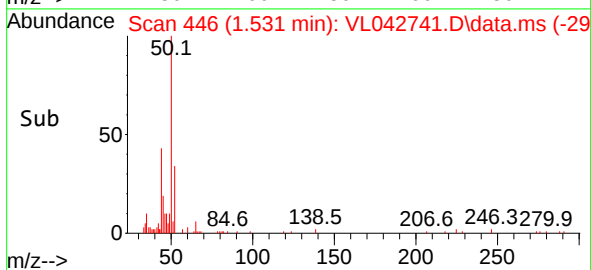
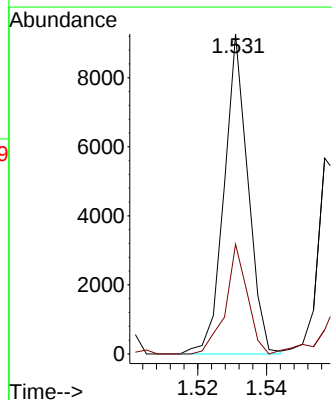
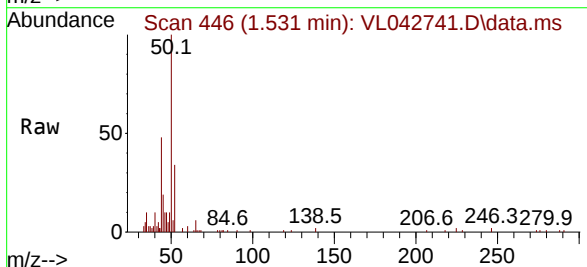
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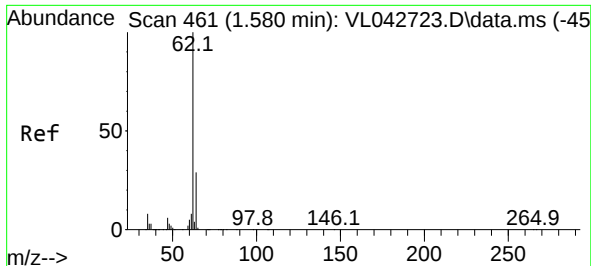
Tgt Ion: 51 Resp: 1549
Ion Ratio Lower Upper
51 100
67 18.1 16.0 24.0



#4
Chloromethane
Concen: 0.629 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042741.D
Acq: 22 Jul 2025 21:12

Tgt Ion: 50 Resp: 4476
Ion Ratio Lower Upper
50 100
52 34.5 24.9 37.3

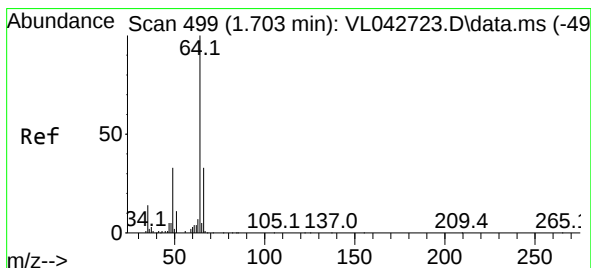
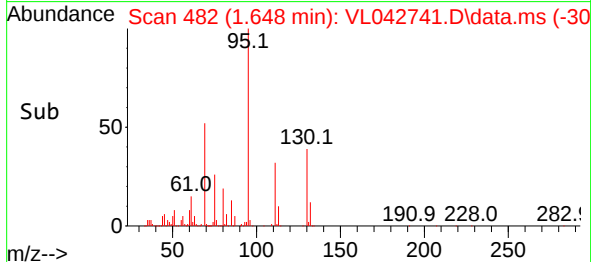
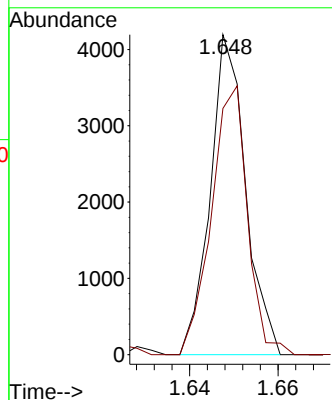
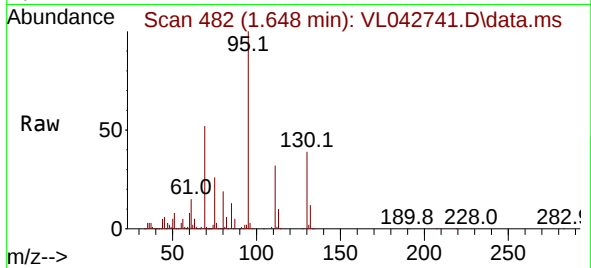




#5
 Vinyl Chloride
 Concen: 0.331 ppbv
 RT: 1.648 min Scan# 41
 Delta R.T. 0.068 min
 Lab File: VL042741.D
 Acq: 22 Jul 2025 21:12

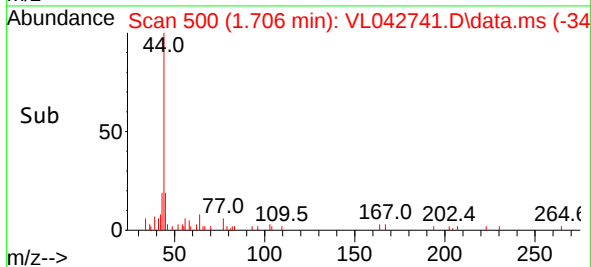
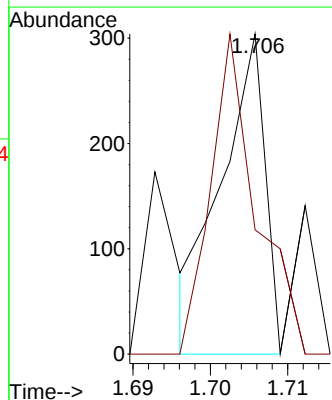
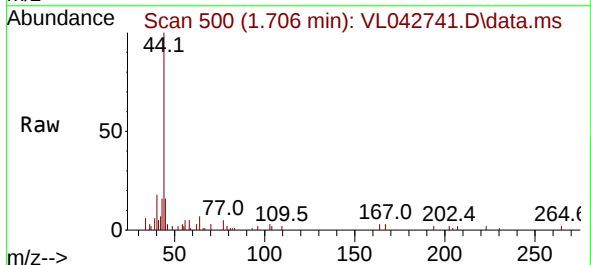
Instrument :
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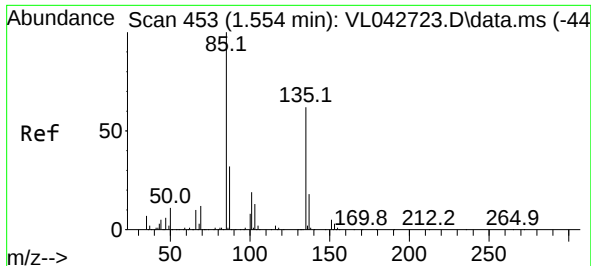
Tgt Ion: 62 Resp: 2327
 Ion Ratio Lower Upper
 62 100
 64 80.7 23.0 34.6#



#7
 Chloroethane
 Concen: 0.045 ppbv
 RT: 1.706 min Scan# 500
 Delta R.T. 0.003 min
 Lab File: VL042741.D
 Acq: 22 Jul 2025 21:12

Tgt Ion: 64 Resp: 119
 Ion Ratio Lower Upper
 64 100
 66 38.8 26.4 39.6

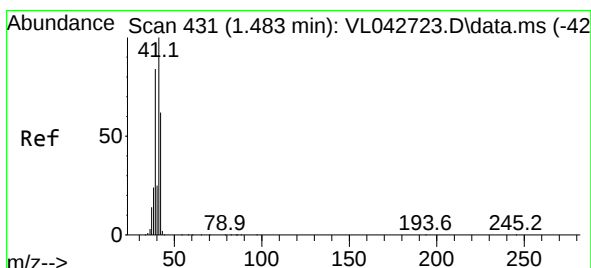
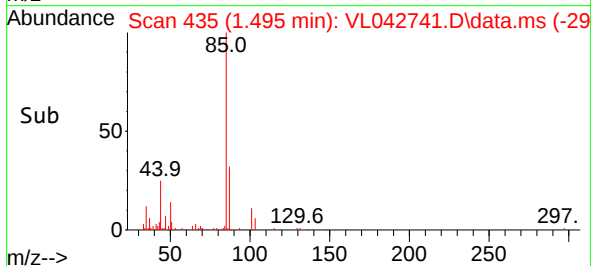
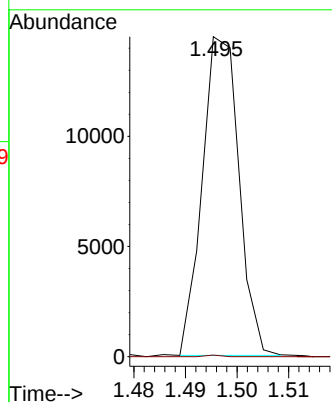
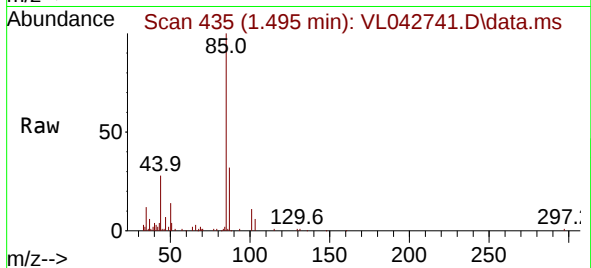




#8
 Dichlorotetrafluoroethane
 Concen: 0.489 ppbv
 RT: 1.495 min Scan# 41
 Delta R.T. -0.058 min
 Lab File: VL042741.D
 Acq: 22 Jul 2025 21:12

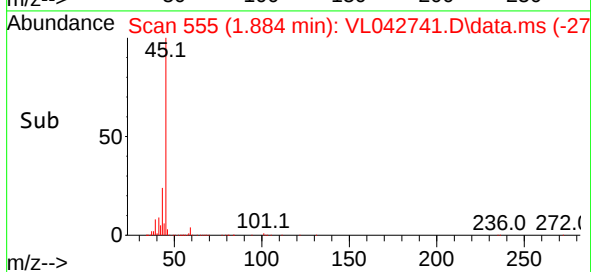
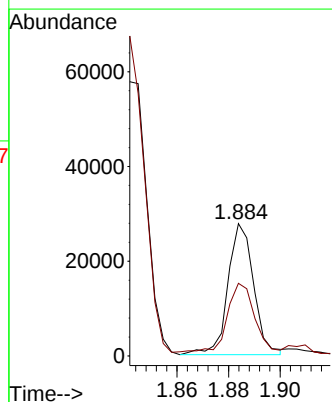
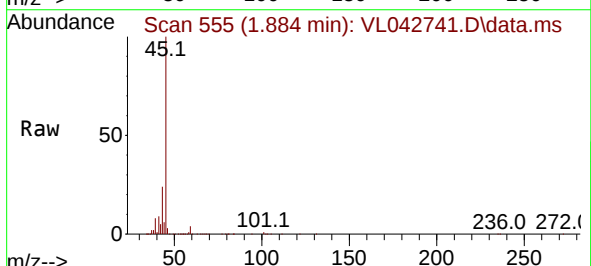
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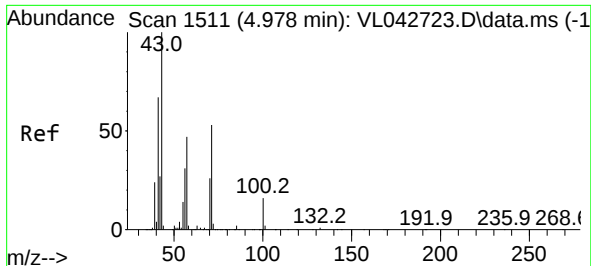
Tgt Ion: 85 Resp: 7171
 Ion Ratio Lower Upper
 85 100
 135 2.1 52.0 78.0#



#9
 Propene
 Concen: 2.746 ppbv
 RT: 1.884 min Scan# 555
 Delta R.T. 0.401 min
 Lab File: VL042741.D
 Acq: 22 Jul 2025 21:12

Tgt Ion: 41 Resp: 19156
 Ion Ratio Lower Upper
 41 100
 42 67.6 52.0 78.0

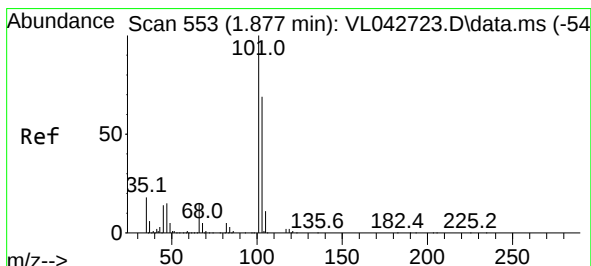
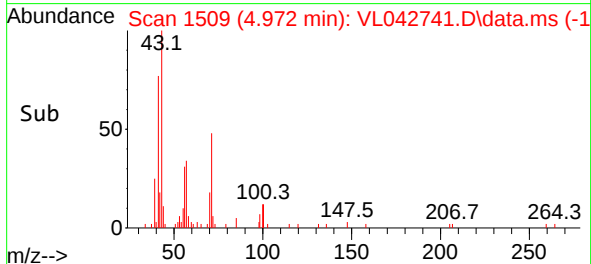
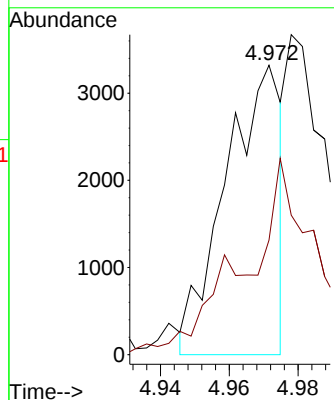
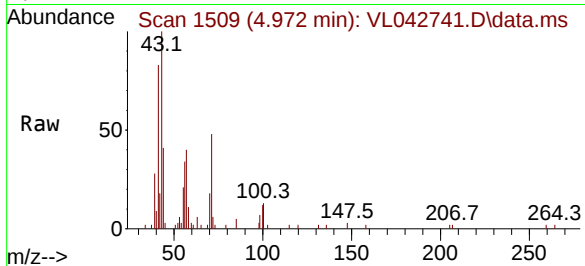




#10
 Heptane
 Concen: 0.192 ppbv
 RT: 4.972 min Scan# 11
 Delta R.T. -0.007 min
 Lab File: VL042741.D
 Acq: 22 Jul 2025 21:12

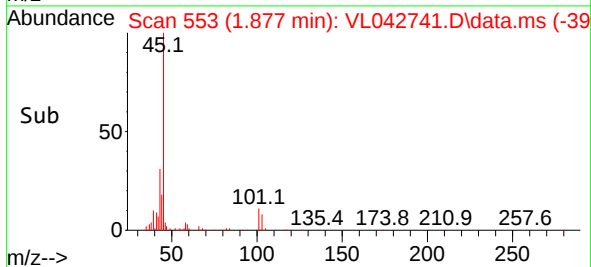
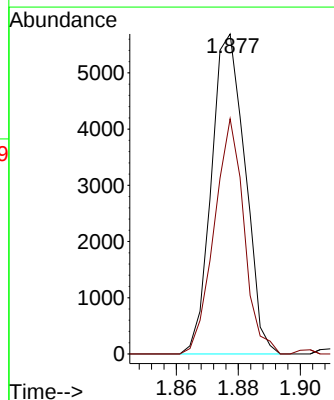
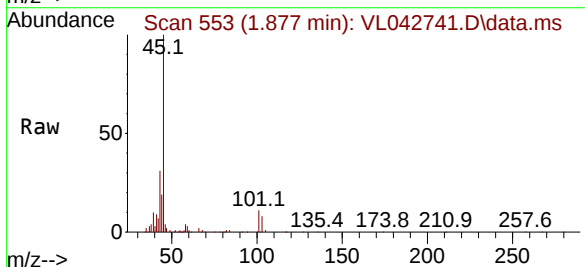
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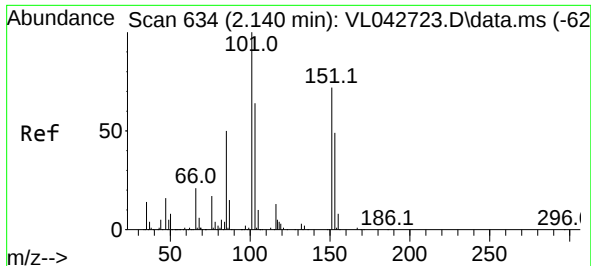
Tgt Ion: 43 Resp: 3718
 Ion Ratio Lower Upper
 43 100
 57 0.0 39.1 58.7#



#11
 Trichlorofluoromethane
 Concen: 0.240 ppbv
 RT: 1.877 min Scan# 553
 Delta R.T. -0.000 min
 Lab File: VL042741.D
 Acq: 22 Jul 2025 21:12

Tgt Ion:101 Resp: 4293
 Ion Ratio Lower Upper
 101 100
 103 73.5 55.2 82.8

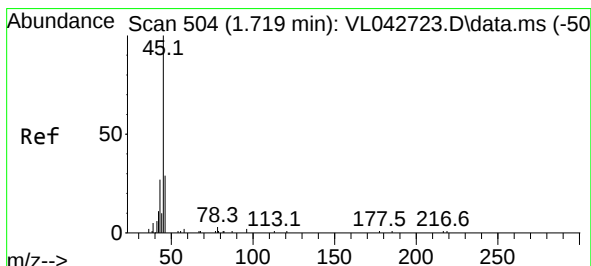
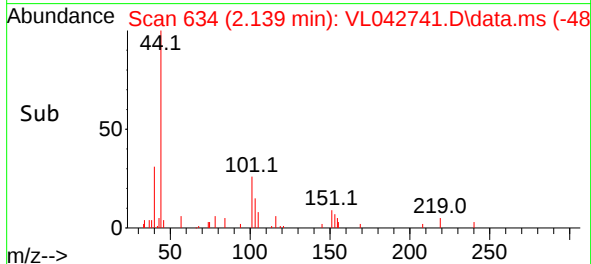
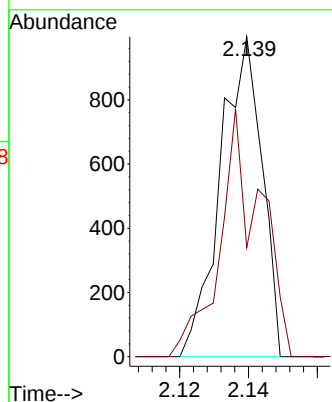
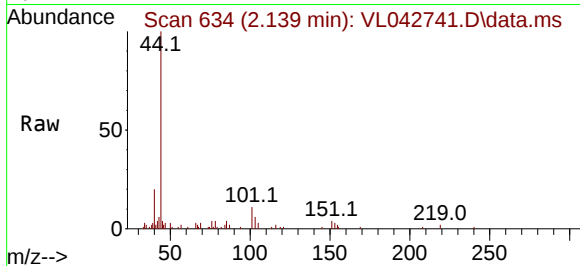




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.060 ppbv
RT: 2.139 min Scan# 61
Delta R.T. -0.000 min
Lab File: VL042741.D
Acq: 22 Jul 2025 21:12

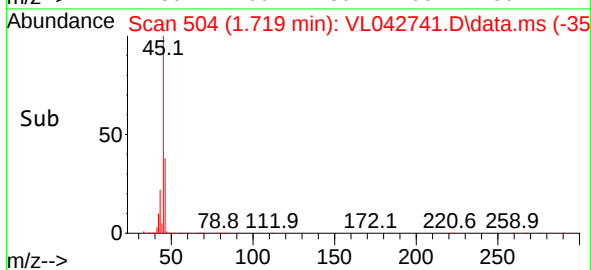
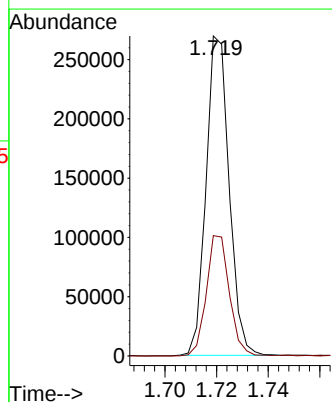
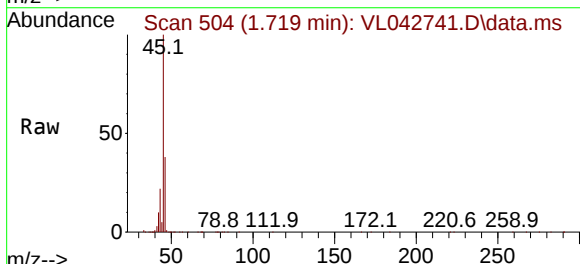
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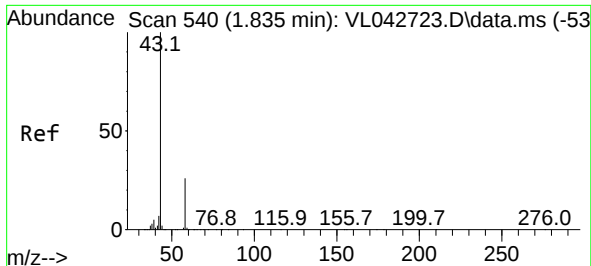
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Ion Ratio Lower Upper
101 100
151 74.9 59.1 88.7



#13
Ethanol
Concen: 142.377 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042741.D
Acq: 22 Jul 2025 21:12

Tgt Ion: 45 Resp: 167054
Ion Ratio Lower Upper
45 100
46 38.0 16.3 65.1

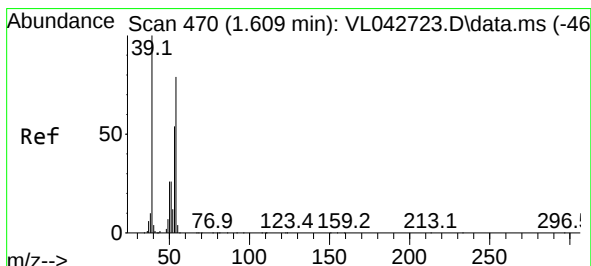
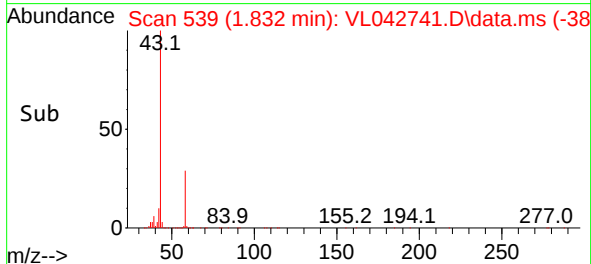
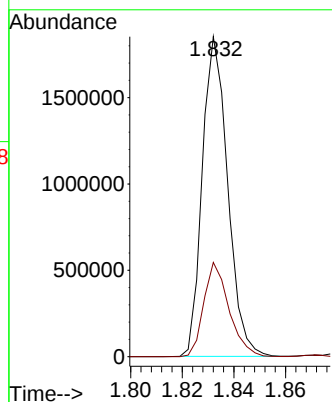
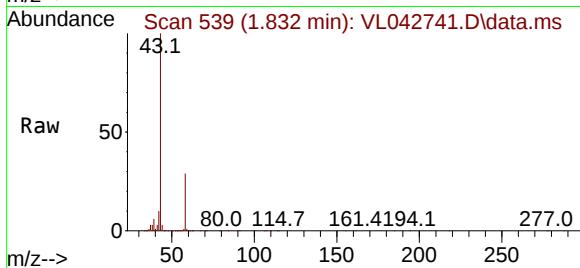




#15
Acetone
Concen: 67.914 ppbv
RT: 1.832 min Scan# 51
Delta R.T. -0.003 min
Lab File: VL042741.D
Acq: 22 Jul 2025 21:12

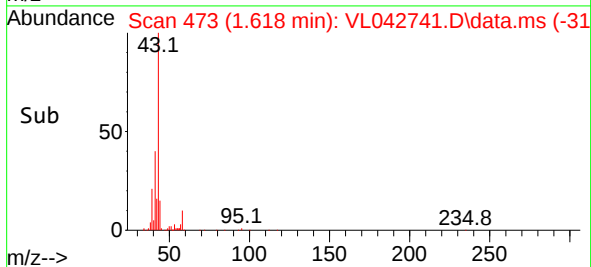
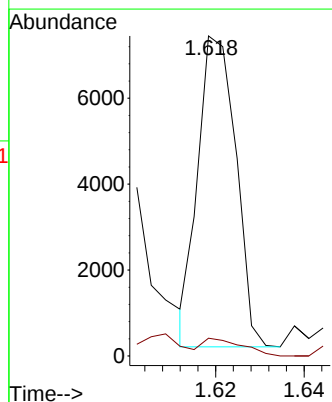
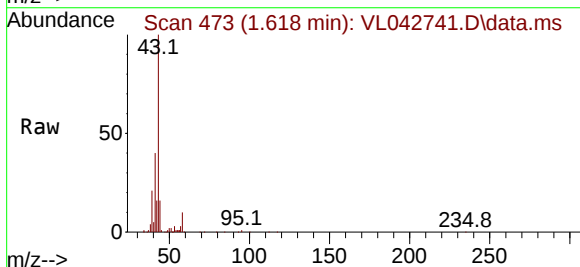
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

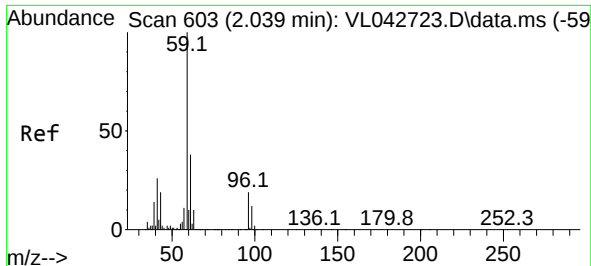
Tgt Ion: 43 Resp: 1266119
Ion Ratio Lower Upper
43 100
58 29.9 20.5 30.7



#16
1,3-Butadiene
Concen: 0.539 ppbv
RT: 1.618 min Scan# 473
Delta R.T. 0.010 min
Lab File: VL042741.D
Acq: 22 Jul 2025 21:12

Tgt Ion: 39 Resp: 4302
Ion Ratio Lower Upper
39 100
54 16.0 54.6 82.0#

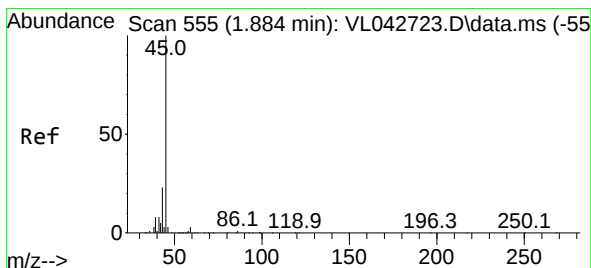
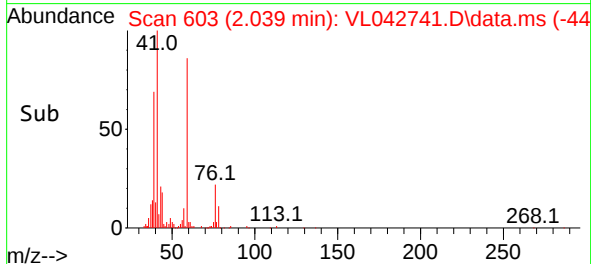
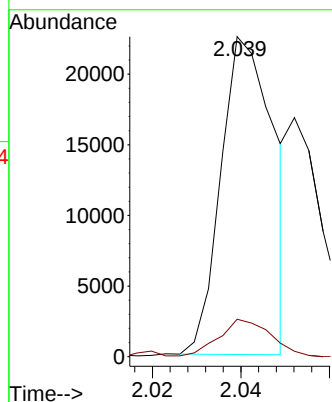
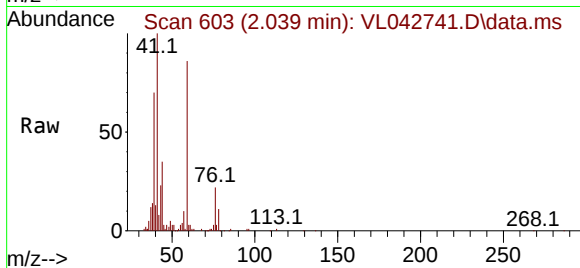




#17
tert-Butyl alcohol
Concen: 1.056 ppbv
RT: 2.039 min Scan# 603
Delta R.T. -0.000 min
Lab File: VL042741.D
Acq: 22 Jul 2025 21:12

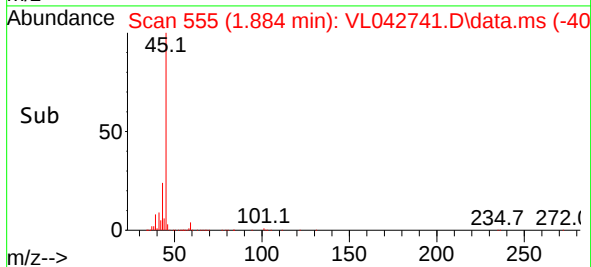
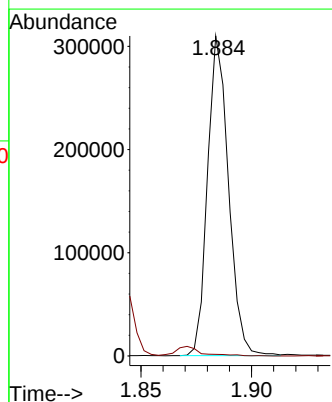
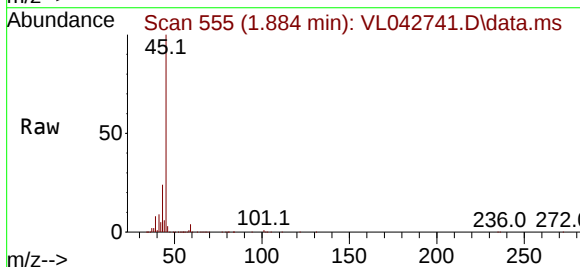
Instrument :
MSVOA_1
ClientSampleId :
IA1DUP

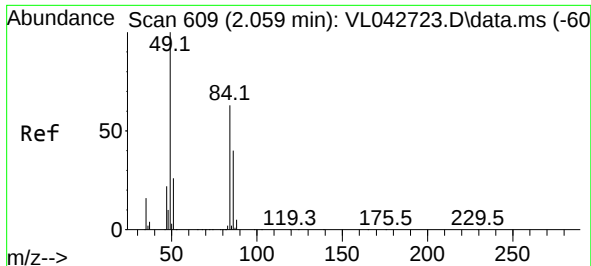
Tgt Ion: 59 Resp: 18690
Ion Ratio Lower Upper
59 100
57 12.8 9.1 13.7



#19
Isopropyl Alcohol
Concen: 20.607 ppbv
RT: 1.884 min Scan# 555
Delta R.T. -0.000 min
Lab File: VL042741.D
Acq: 22 Jul 2025 21:12

Tgt Ion: 45 Resp: 203603
Ion Ratio Lower Upper
45 100
58 185.9 30.6 46.0#

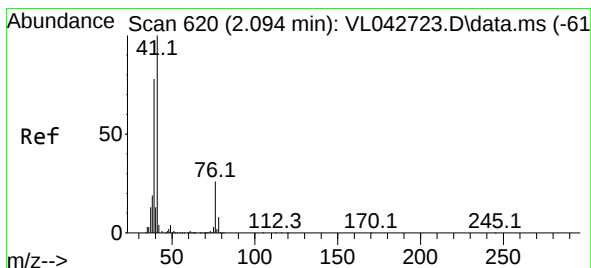
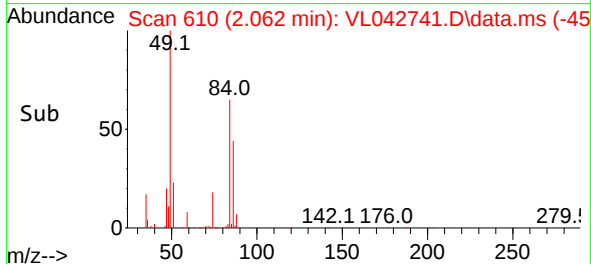
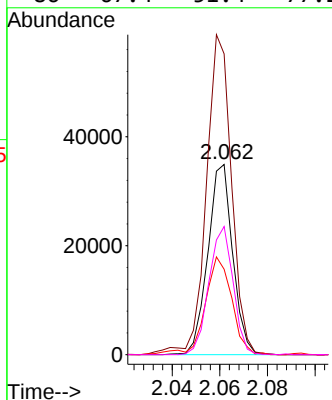
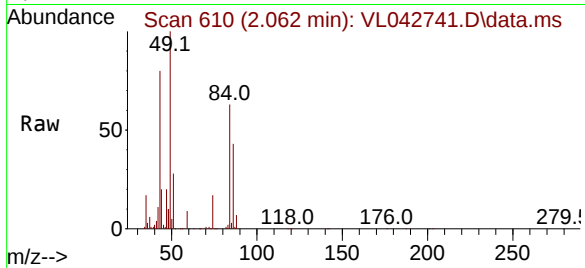




#20
Methylene Chloride
Concen: 4.313 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042741.D
Acq: 22 Jul 2025 21:12

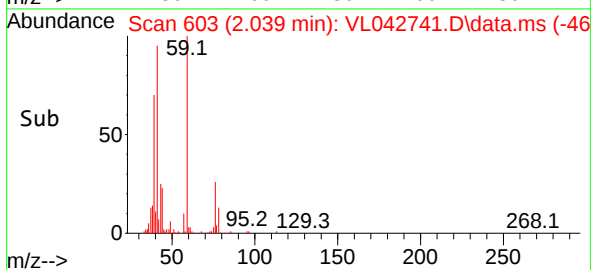
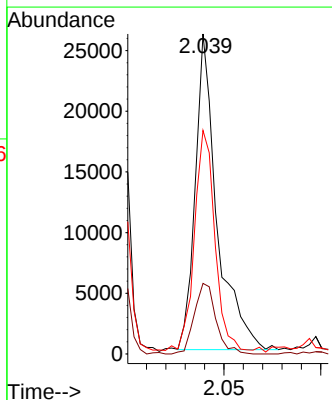
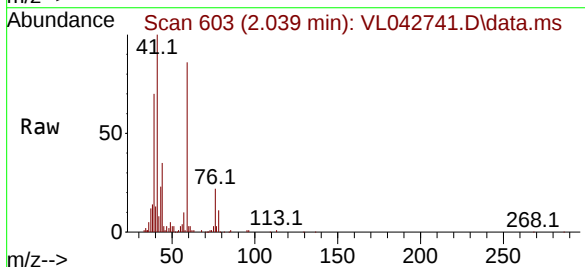
Instrument :
MSVOA_1
ClientSampleId :
IA1DUP

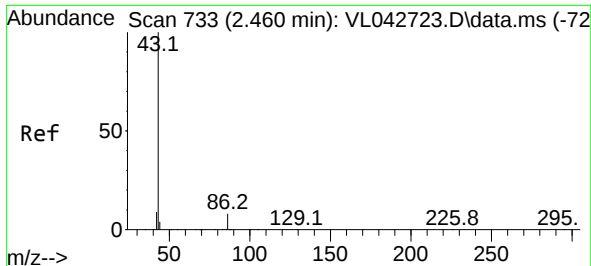
Tgt Ion:	84	Resp:	25276
Ion	Ratio	Lower	Upper
84	100		
49	158.1	128.2	192.4
51	44.9	34.5	51.7
86	67.4	51.4	77.2



#21
Allyl Chloride
Concen: 1.709 ppbv
RT: 2.039 min Scan# 603
Delta R.T. -0.055 min
Lab File: VL042741.D
Acq: 22 Jul 2025 21:12

Tgt Ion:	41	Resp:	20424
Ion	Ratio	Lower	Upper
41	100		
76	22.1	22.1	33.1
39	65.2	64.7	97.1

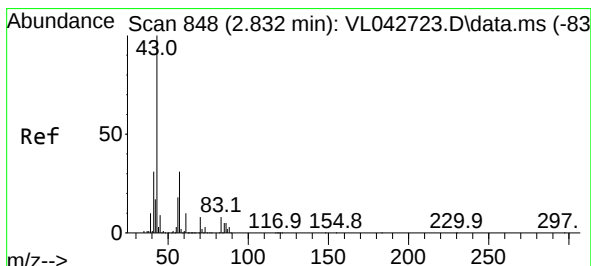
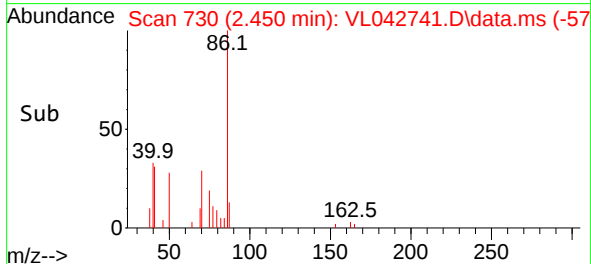
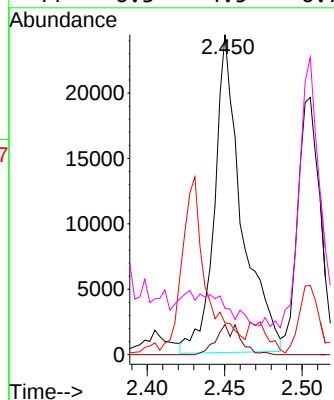
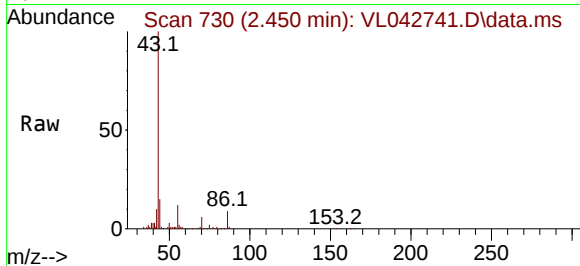




#23
Vinyl Acetate
Concen: 1.394 ppbv
RT: 2.450 min Scan# 733
Delta R.T. -0.010 min
Lab File: VL042741.D
Acq: 22 Jul 2025 21:12

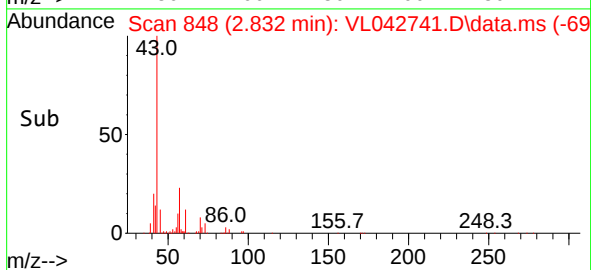
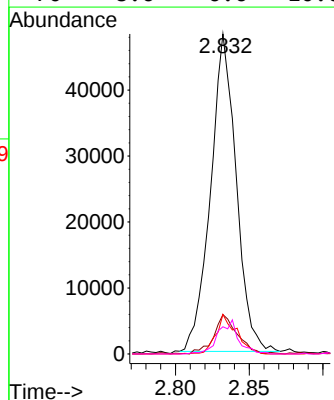
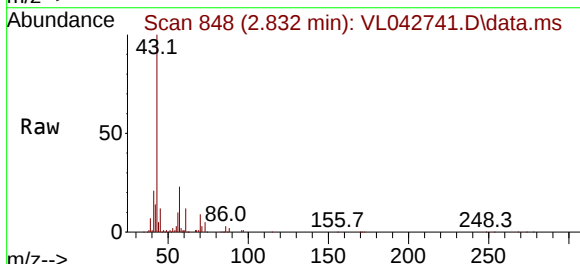
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

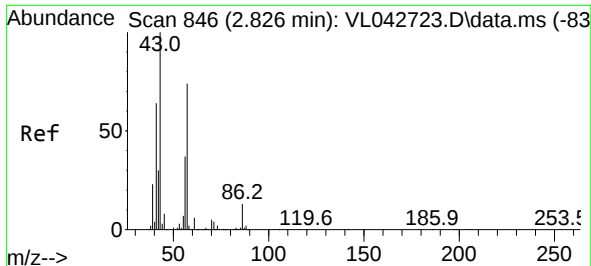
Tgt Ion: 43	Resp: 29630
Ion Ratio	Lower Upper
43	100
86	9.8 5.7 8.5#
42	8.6 7.9 11.9
44	6.3 4.5 6.7



#25
Ethyl Acetate
Concen: 1.693 ppbv
RT: 2.832 min Scan# 848
Delta R.T. -0.000 min
Lab File: VL042741.D
Acq: 22 Jul 2025 21:12

Tgt Ion: 43	Resp: 58251
Ion Ratio	Lower Upper
43	100
45	11.9 7.8 11.6#
61	10.1 7.0 10.6
70	8.6 6.6 10.0

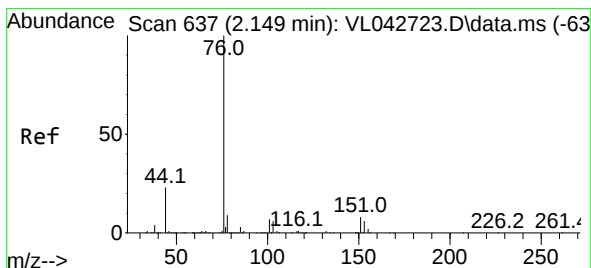
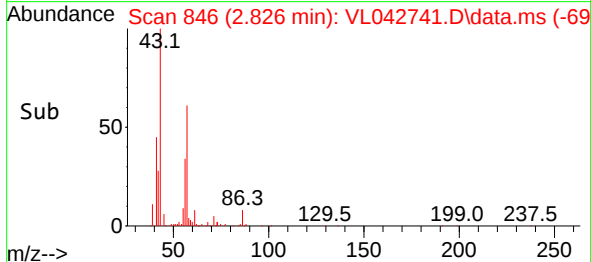
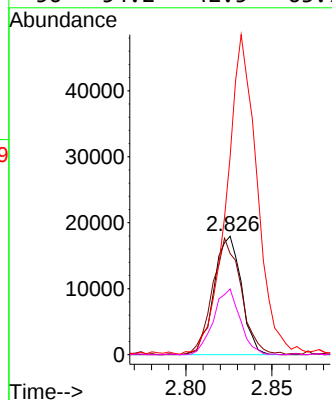
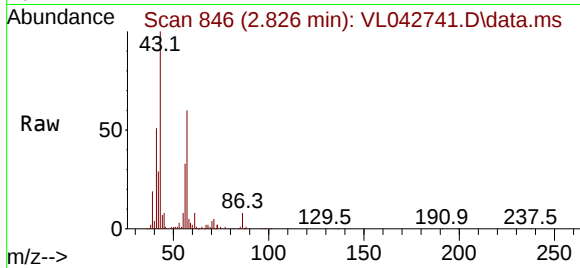




#26
Hexane
Concen: 1.315 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.000 min
Lab File: VL042741.D
Acq: 22 Jul 2025 21:12

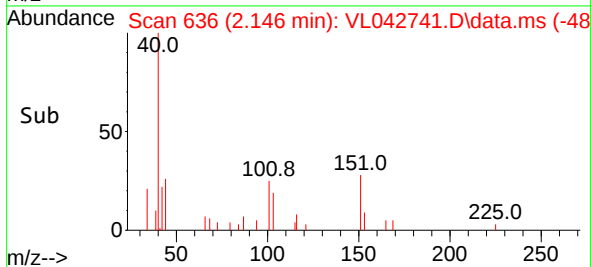
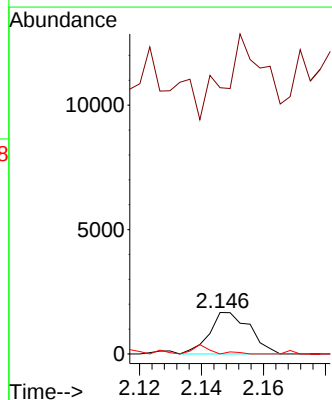
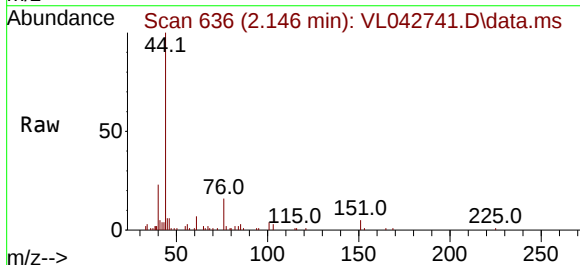
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

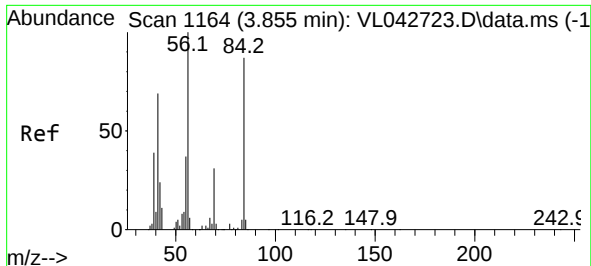
Tgt Ion:	57	Resp:	19843
Ion	Ratio	Lower	Upper
57	100		
41	101.6	77.3	115.9
43	307.6	182.3	273.5#
56	54.2	42.5	63.7



#27
Carbon Disulfide
Concen: 0.094 ppbv
RT: 2.146 min Scan# 636
Delta R.T. -0.003 min
Lab File: VL042741.D
Acq: 22 Jul 2025 21:12

Tgt Ion:	76	Resp:	1514
Ion	Ratio	Lower	Upper
76	100		
44	519.9	18.8	28.2#
78	12.0	9.5	14.3

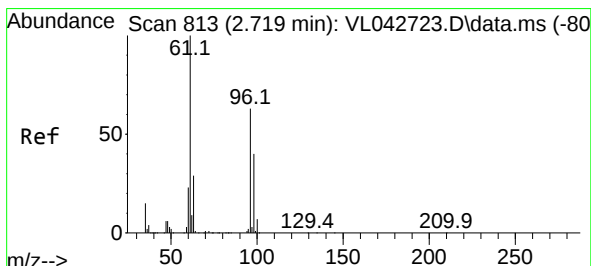
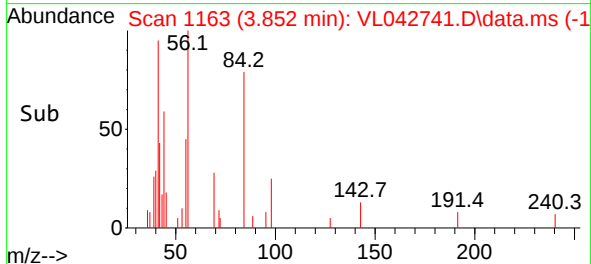
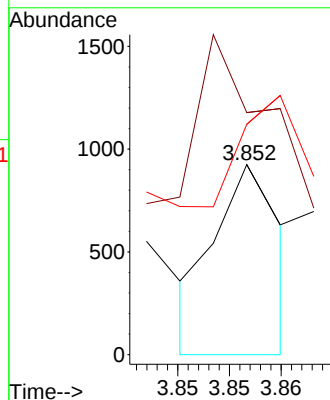
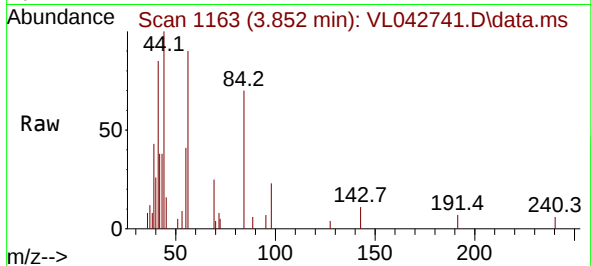




#30
Cyclohexane
Concen: 0.031 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. -0.003 min
Lab File: VL042741.D
Acq: 22 Jul 2025 21:12

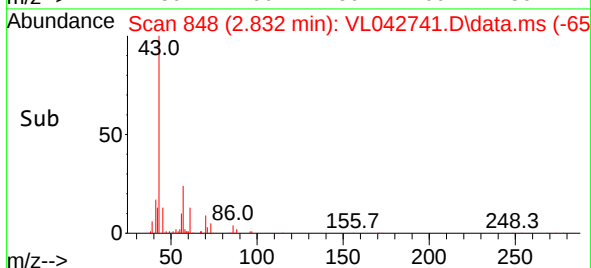
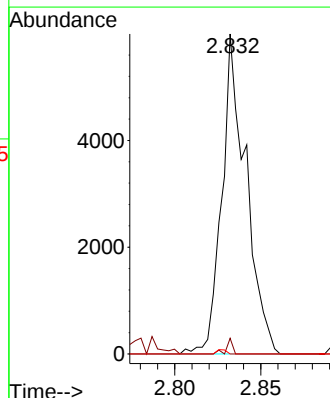
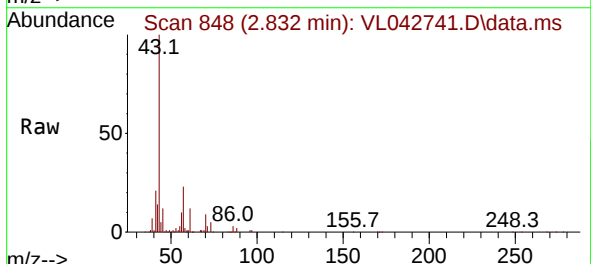
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

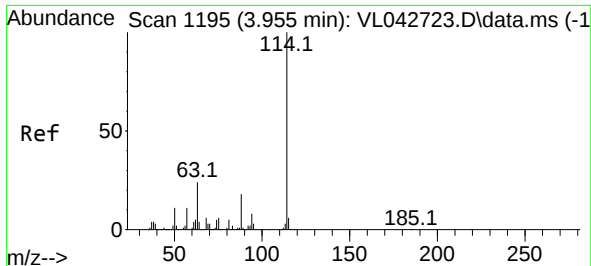
Tgt Ion: 84 Resp: 407
Ion Ratio Lower Upper
84 100
56 0.0 94.2 141.4#
41 852.1 66.4 99.6#



#31
cis-1,2-Dichloroethene
Concen: 0.361 ppbv
RT: 2.832 min Scan# 848
Delta R.T. 0.113 min
Lab File: VL042741.D
Acq: 22 Jul 2025 21:12

Tgt Ion: 61 Resp: 5869
Ion Ratio Lower Upper
61 100
96 4.9 50.6 75.8#
98 0.0 32.2 48.2#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.952 min Scan# 1194

Delta R.T. -0.003 min

Lab File: VL042741.D

Acq: 22 Jul 2025 21:12

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

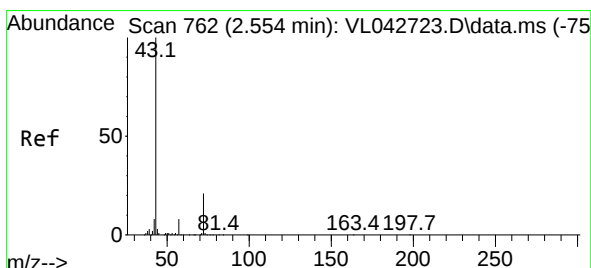
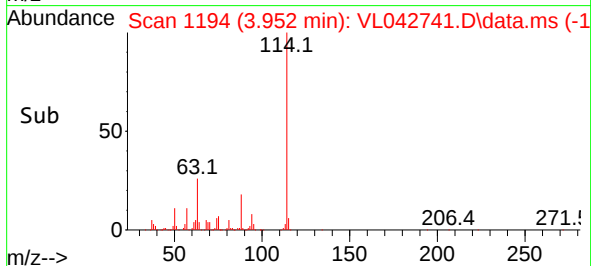
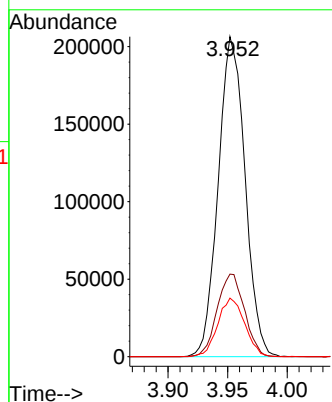
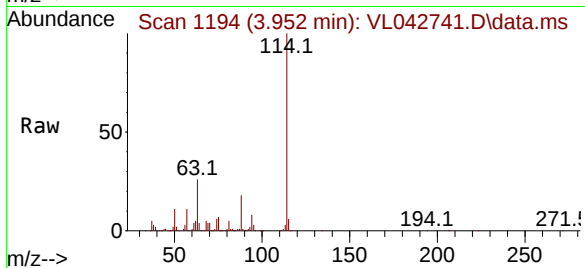
Tgt Ion:114 Resp: 322913

Ion Ratio Lower Upper

114 100

63 26.3 20.4 30.6

88 18.4 14.5 21.7



#34

2-Butanone

Concen: 5.161 ppbv

RT: 2.554 min Scan# 762

Delta R.T. -0.000 min

Lab File: VL042741.D

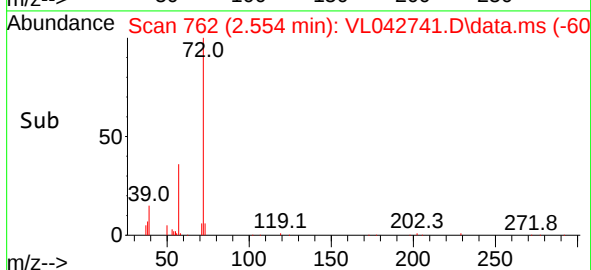
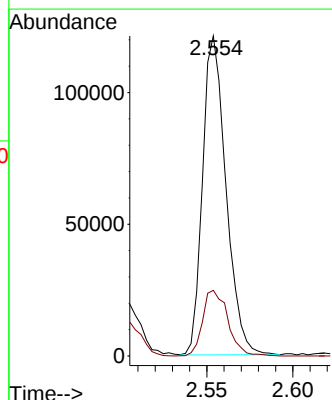
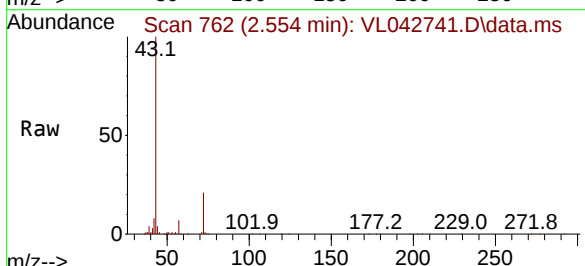
Acq: 22 Jul 2025 21:12

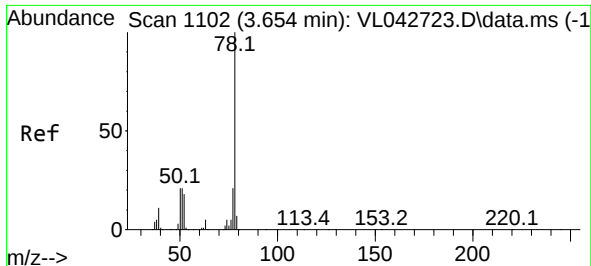
Tgt Ion: 43 Resp: 114753

Ion Ratio Lower Upper

43 100

72 22.2 17.0 25.6

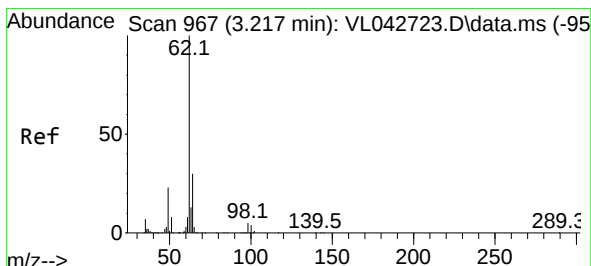
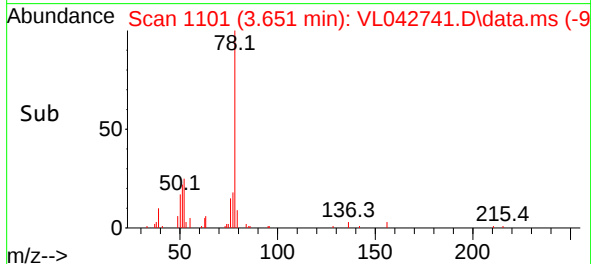
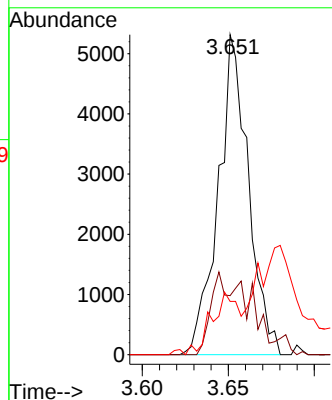
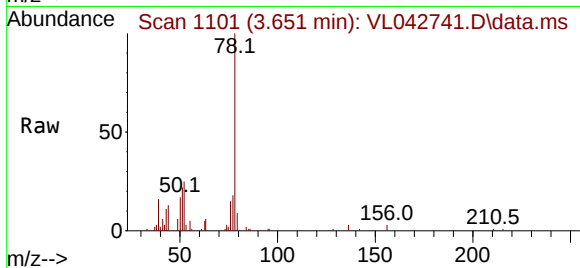




#36
Benzene
Concen: 0.216 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.003 min
Lab File: VL042741.D
Acq: 22 Jul 2025 21:12

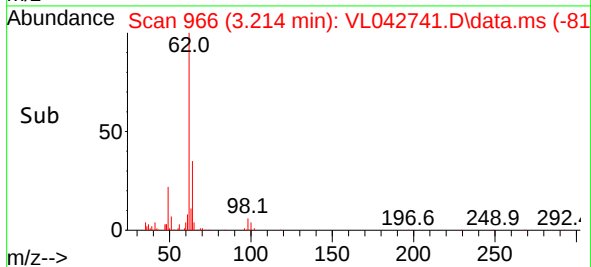
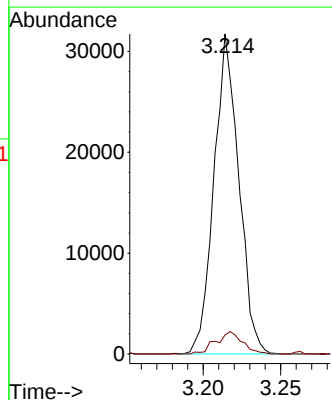
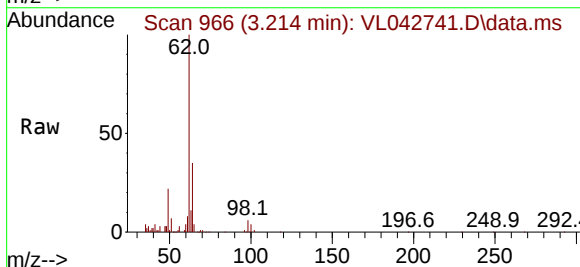
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

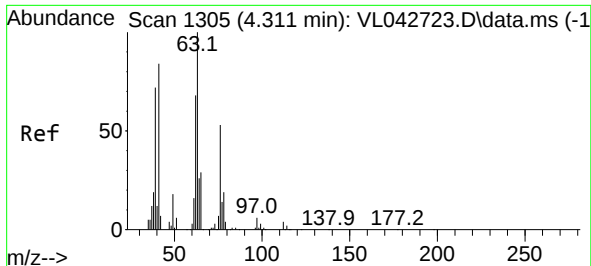
Tgt Ion: 78 Resp: 6485
Ion Ratio Lower Upper
78 100
77 18.5 17.0 25.4
50 15.0 16.9 25.3#



#37
1,2-Dichloroethane
Concen: 1.847 ppbv
RT: 3.214 min Scan# 966
Delta R.T. -0.003 min
Lab File: VL042741.D
Acq: 22 Jul 2025 21:12

Tgt Ion: 62 Resp: 35349
Ion Ratio Lower Upper
62 100
98 7.5 4.8 7.2#





#39

1,2-Dichloropropane

Concen: 7.597 ppbv

RT: 3.952 min Scan# 1194

Delta R.T. -0.359 min

Lab File: VL042741.D

Acq: 22 Jul 2025 21:12

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

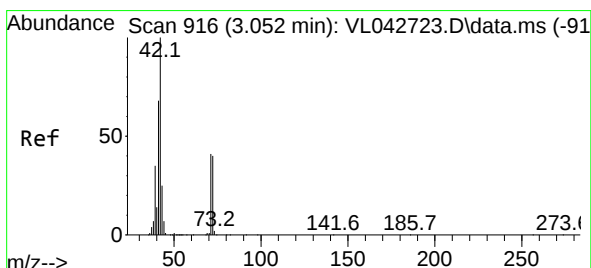
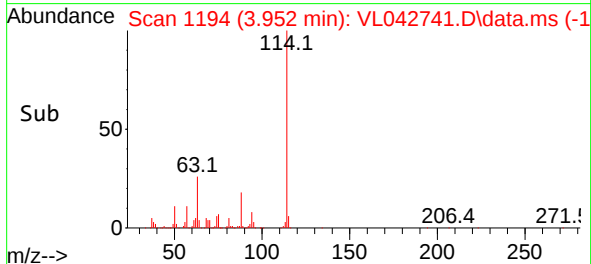
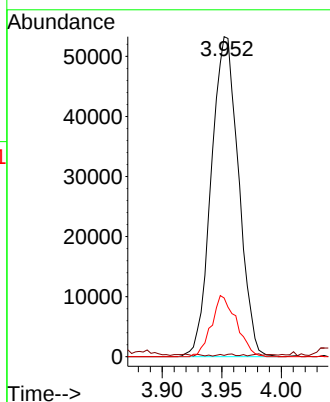
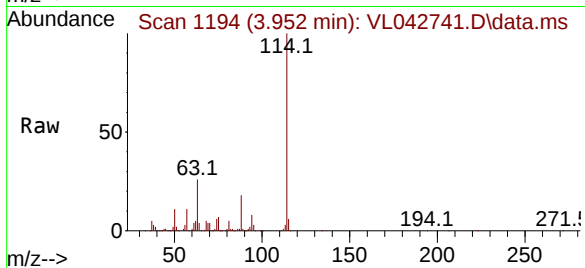
Tgt Ion: 63 Resp: 84864

Ion Ratio Lower Upper

63 100

41 0.0 67.7 101.5#

62 18.3 54.1 81.1#



#41

Tetrahydrofuran

Concen: 2.582 ppbv

RT: 3.052 min Scan# 916

Delta R.T. -0.000 min

Lab File: VL042741.D

Acq: 22 Jul 2025 21:12

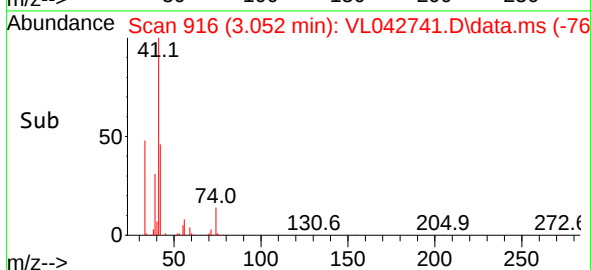
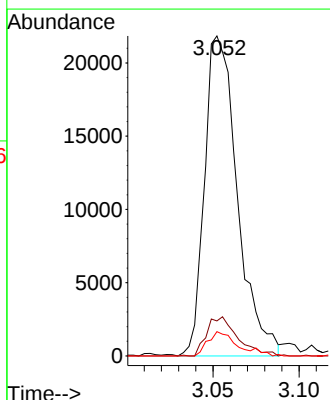
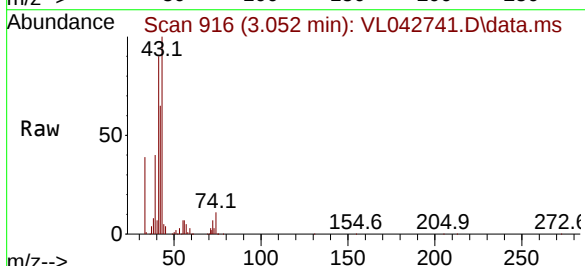
Tgt Ion: 42 Resp: 28946

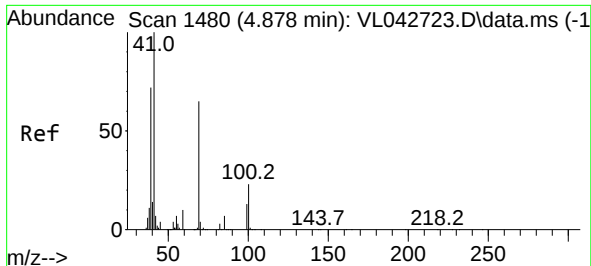
Ion Ratio Lower Upper

42 100

72 11.7 32.2 48.2#

71 6.9 29.8 44.6#





#43

Methyl Methacrylate

Concen: 0.037 ppbv

RT: 4.874 min Scan# 1479

Delta R.T. -0.003 min

Lab File: VL042741.D

Acq: 22 Jul 2025 21:12

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

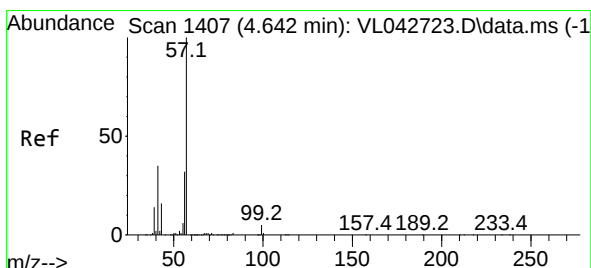
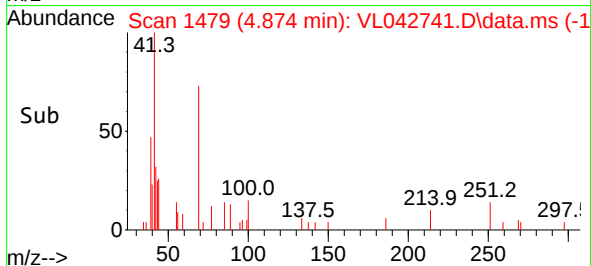
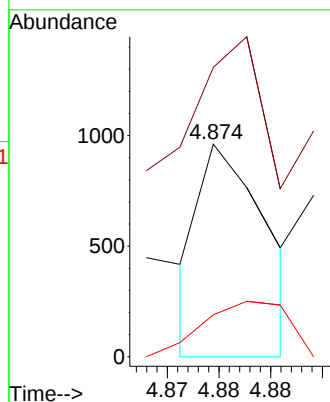
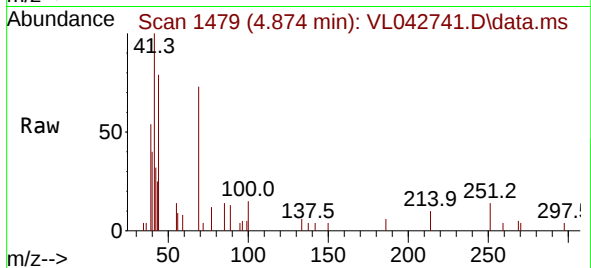
Tgt Ion: 69 Resp: 430

Ion Ratio Lower Upper

69 100

41 585.1 125.8 188.6#

100 0.0 29.9 44.9#



#44

2,2,4-Trimethylpentane

Concen: 0.065 ppbv

RT: 4.635 min Scan# 1405

Delta R.T. -0.007 min

Lab File: VL042741.D

Acq: 22 Jul 2025 21:12

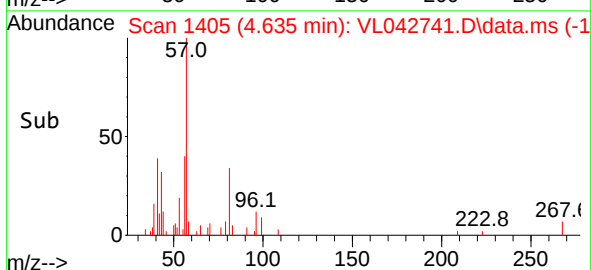
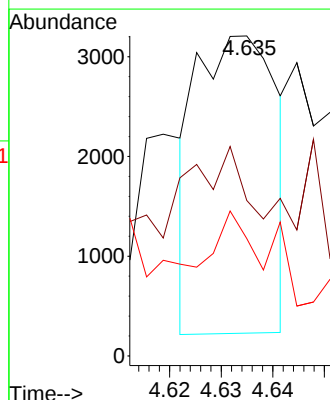
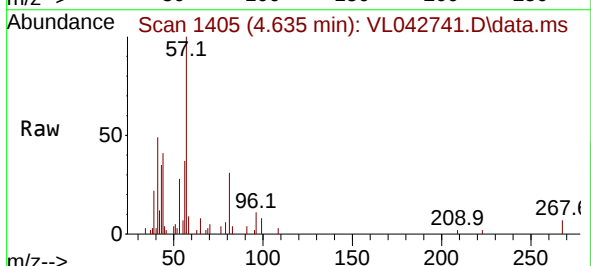
Tgt Ion: 57 Resp: 3199

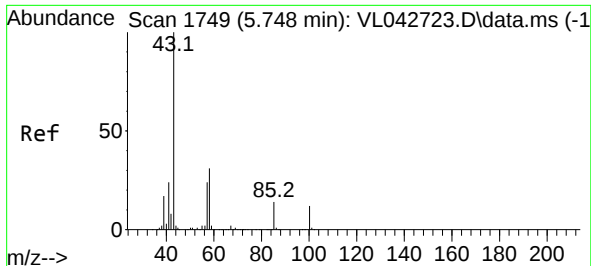
Ion Ratio Lower Upper

57 100

41 0.0 29.4 44.0#

56 119.3 26.1 39.1#

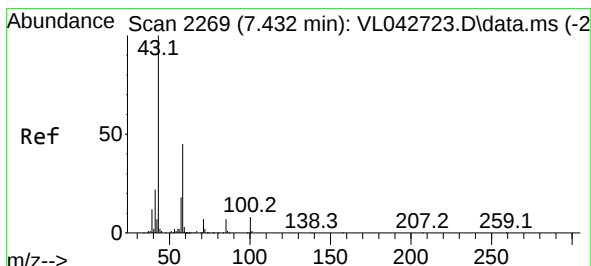
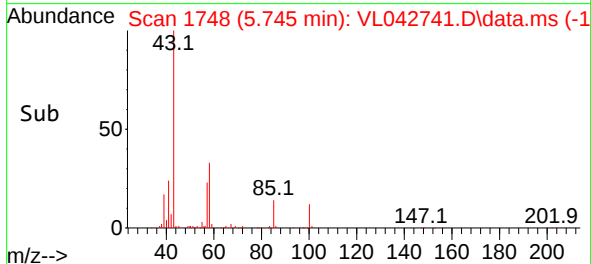
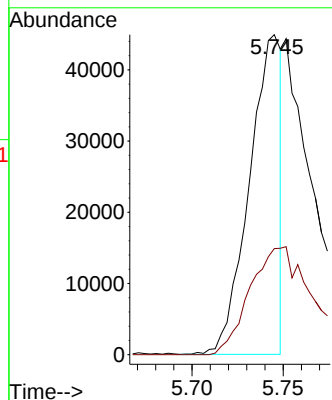
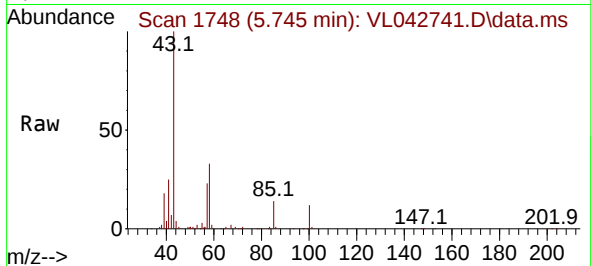




#50
4-Methyl-2-Pentanone
Concen: 1.865 ppbv
RT: 5.745 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL042741.D
Acq: 22 Jul 2025 21:12

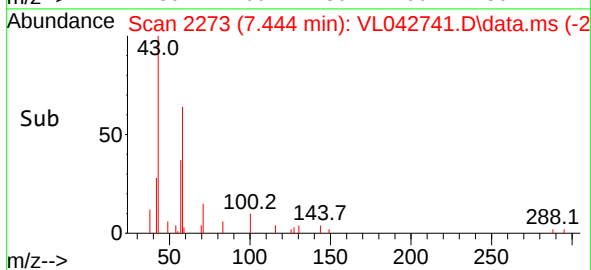
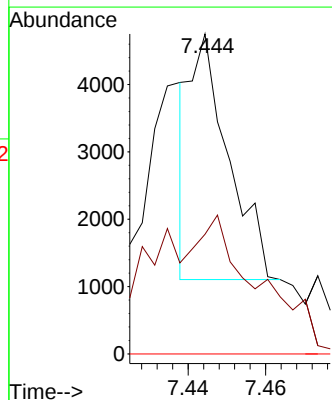
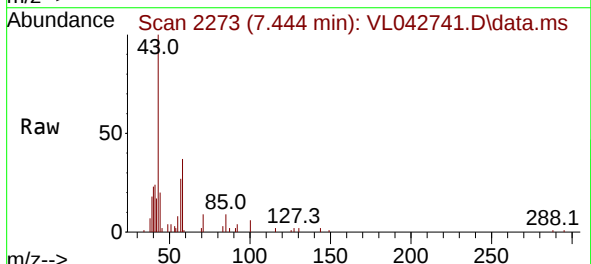
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

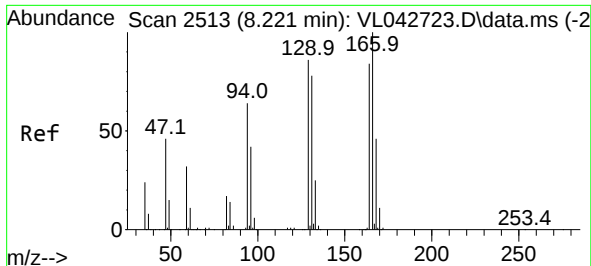
Tgt Ion: 43 Resp: 54338
Ion Ratio Lower Upper
43 100
58 0.0 27.6 41.4#



#51
2-Hexanone
Concen: 0.107 ppbv
RT: 7.444 min Scan# 2273
Delta R.T. 0.013 min
Lab File: VL042741.D
Acq: 22 Jul 2025 21:12

Tgt Ion: 43 Resp: 2486
Ion Ratio Lower Upper
43 100
58 162.7 37.9 56.9#
98 11.1 0.2 0.2#

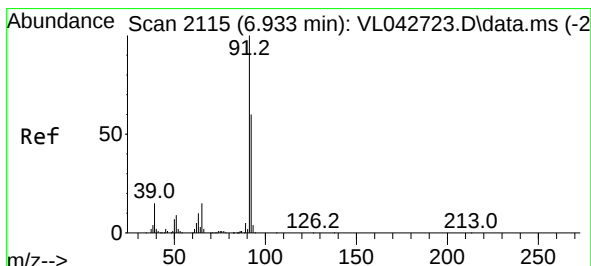
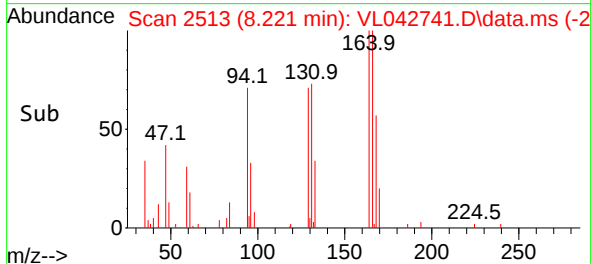
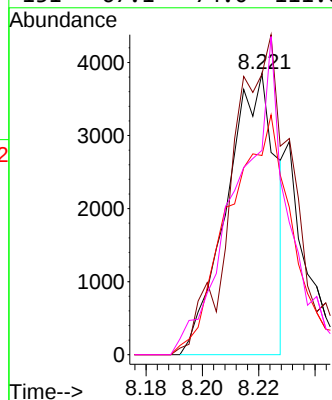
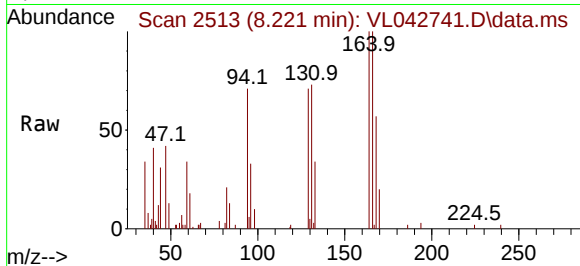




#52
Tetrachloroethene
Concen: 0.385 ppbv
RT: 8.221 min Scan# 2113
Delta R.T. -0.000 min
Lab File: VL042741.D
Acq: 22 Jul 2025 21:12

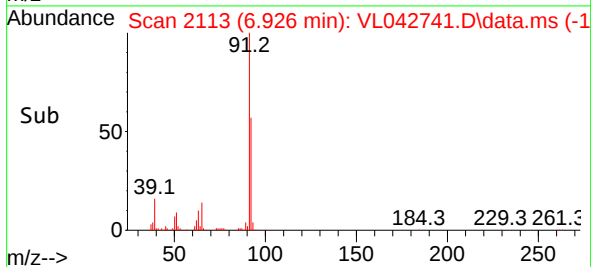
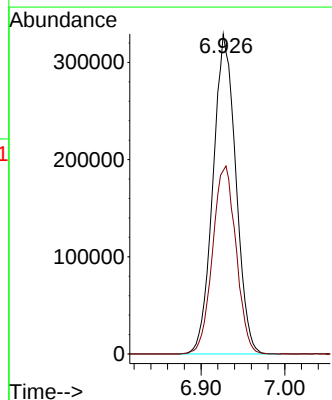
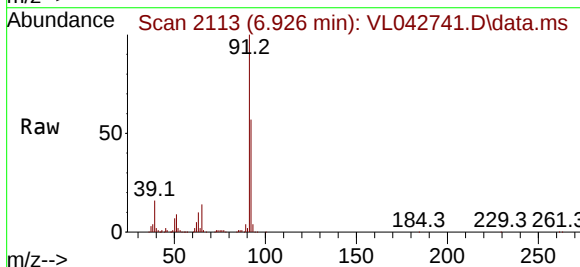
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

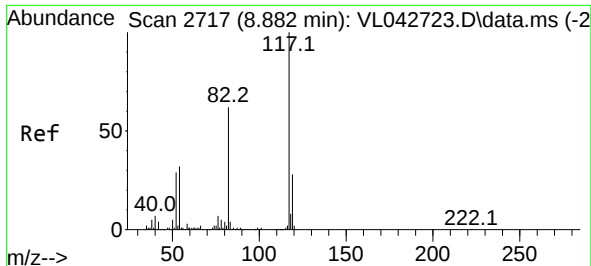
Tgt Ion:164 Resp: 4650
Ion Ratio Lower Upper
164 100
166 97.5 95.1 142.7
129 67.6 81.9 122.9#
131 67.1 74.0 111.0#



#53
Toluene
Concen: 18.420 ppbv
RT: 6.926 min Scan# 2113
Delta R.T. -0.007 min
Lab File: VL042741.D
Acq: 22 Jul 2025 21:12

Tgt Ion: 91 Resp: 623030
Ion Ratio Lower Upper
91 100
92 60.5 48.2 72.4

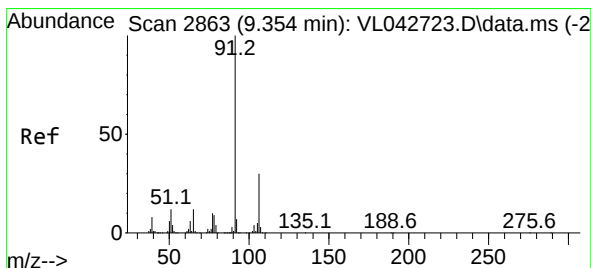
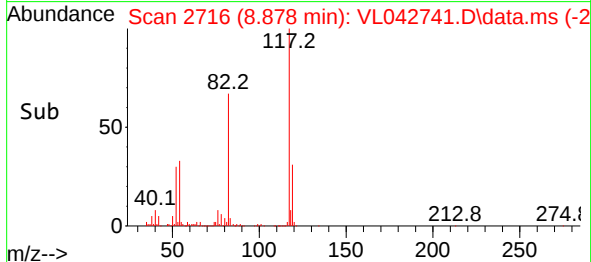
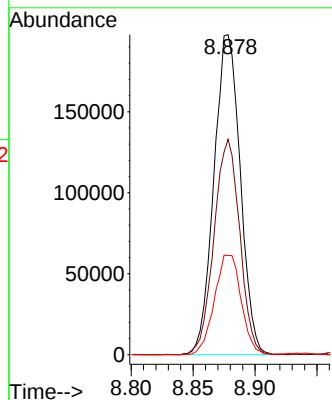
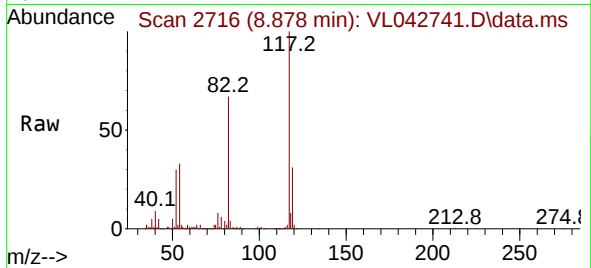




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042741.D
Acq: 22 Jul 2025 21:12

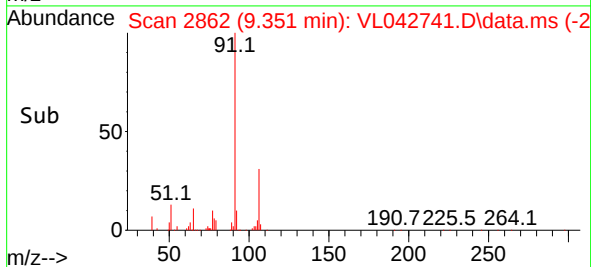
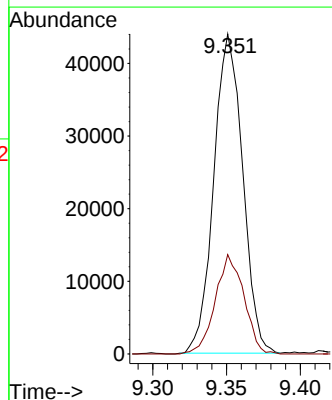
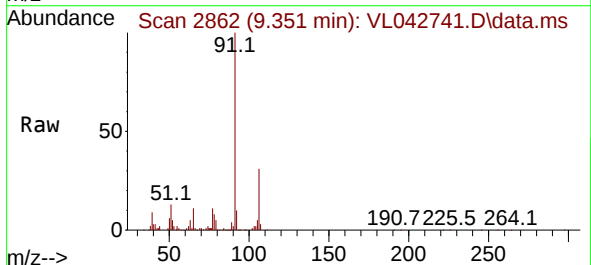
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

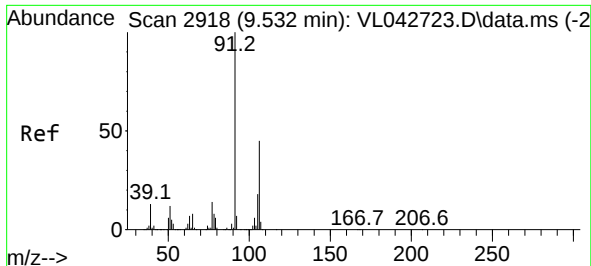
Tgt Ion:117 Resp: 292536
Ion Ratio Lower Upper
117 100
82 65.9 54.6 81.8
119 31.6 25.3 37.9



#58
Ethyl Benzene
Concen: 1.226 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.003 min
Lab File: VL042741.D
Acq: 22 Jul 2025 21:12

Tgt Ion: 91 Resp: 59900
Ion Ratio Lower Upper
91 100
106 31.1 23.7 35.5





#59

m/p-Xylene

Concen: 6.947 ppbv

RT: 9.529 min Scan# 2917

Delta R.T. -0.003 min

Lab File: VL042741.D

Acq: 22 Jul 2025 21:12

Instrument :

MSVOA_L

ClientSampleId :

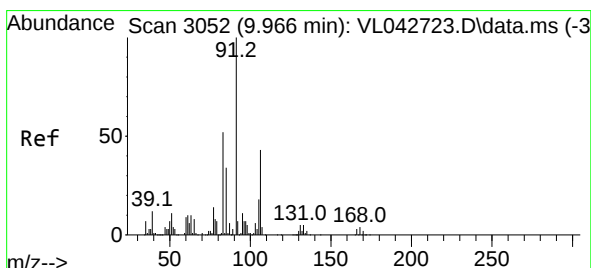
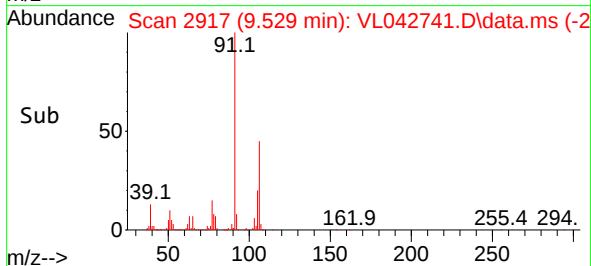
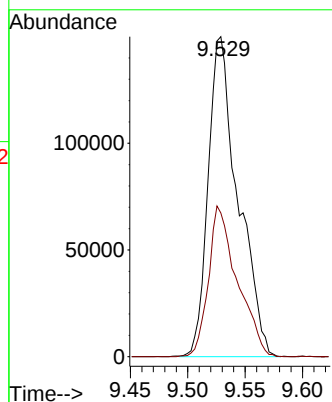
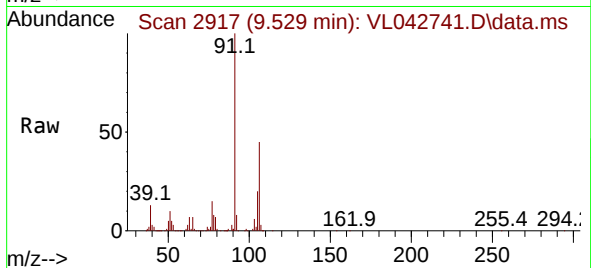
IA1DUP

Tgt Ion: 91 Resp: 271574

Ion Ratio Lower Upper

91 100

106 45.5 37.3 55.9



#60

o-Xylene

Concen: 3.902 ppbv

RT: 9.959 min Scan# 3050

Delta R.T. -0.007 min

Lab File: VL042741.D

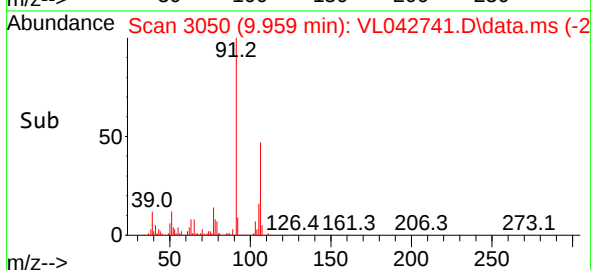
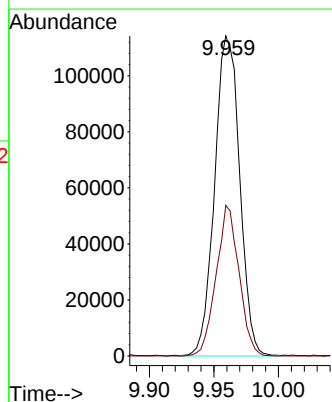
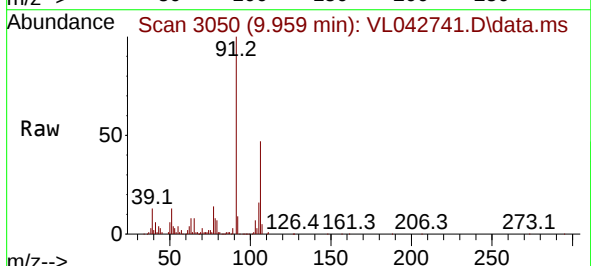
Acq: 22 Jul 2025 21:12

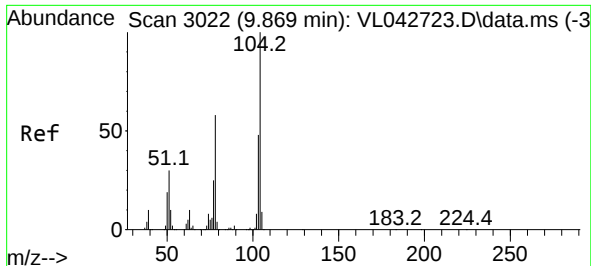
Tgt Ion: 91 Resp: 154009

Ion Ratio Lower Upper

91 100

106 42.9 21.4 64.3

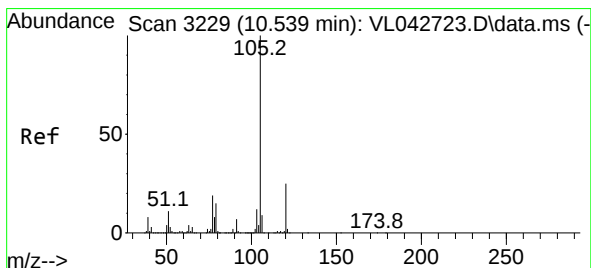
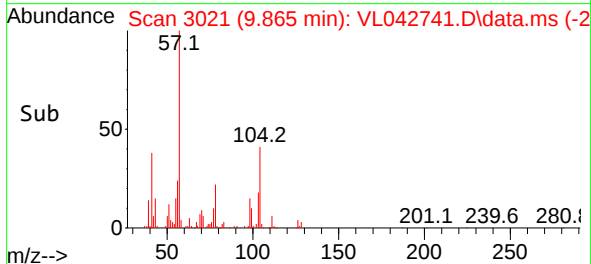
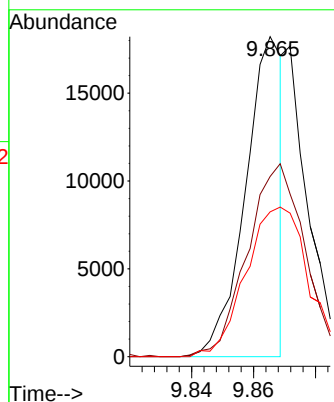
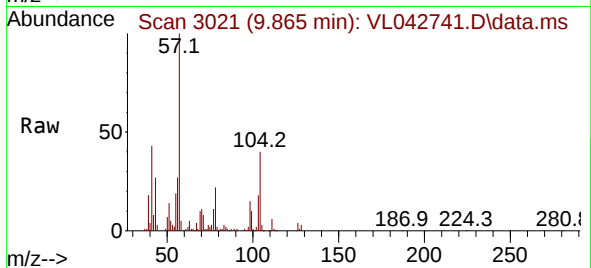




#61
Styrene
Concen: 0.888 ppbv
RT: 9.865 min Scan# 3022
Delta R.T. -0.003 min
Lab File: VL042741.D
Acq: 22 Jul 2025 21:12

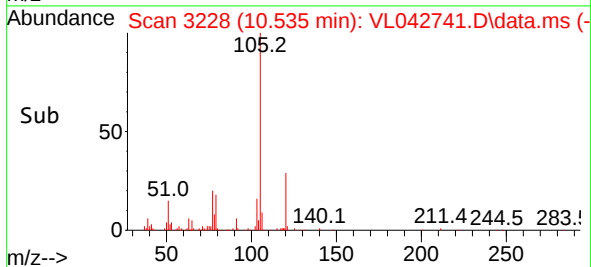
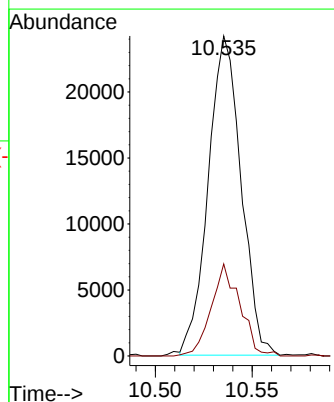
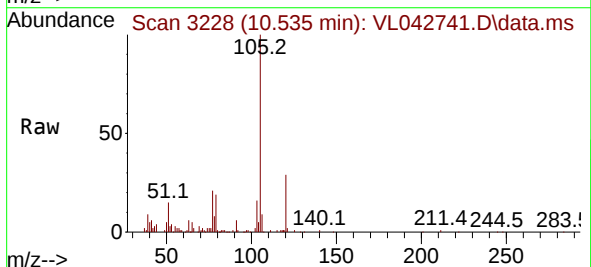
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

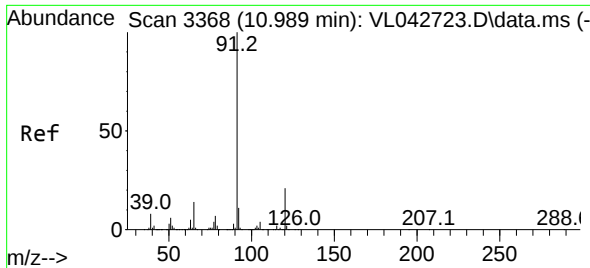
Tgt Ion:104 Resp: 15095
Ion Ratio Lower Upper
104 100
78 0.0 43.4 65.2#
103 0.0 37.8 56.6#



#62
Isopropylbenzene
Concen: 0.486 ppbv
RT: 10.535 min Scan# 3228
Delta R.T. -0.003 min
Lab File: VL042741.D
Acq: 22 Jul 2025 21:12

Tgt Ion:105 Resp: 28526
Ion Ratio Lower Upper
105 100
120 25.3 20.2 30.2

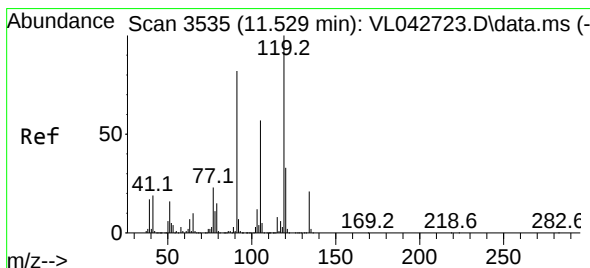
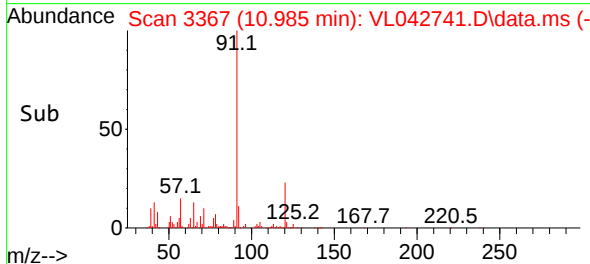
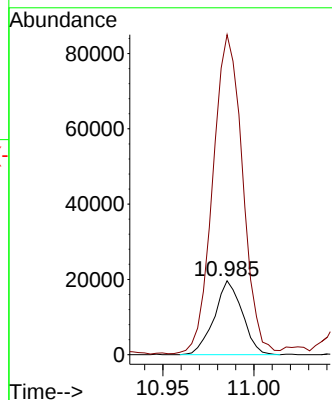
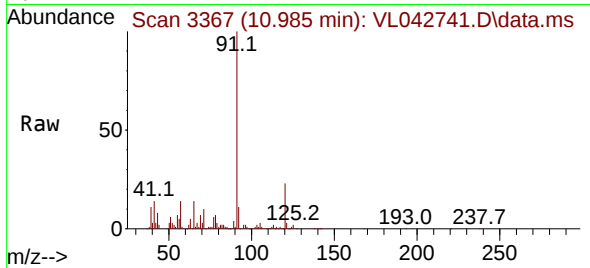




#64
n-propylbenzene
Concen: 1.413 ppbv
RT: 10.985 min Scan# 31
Delta R.T. -0.003 min
Lab File: VL042741.D
Acq: 22 Jul 2025 21:12

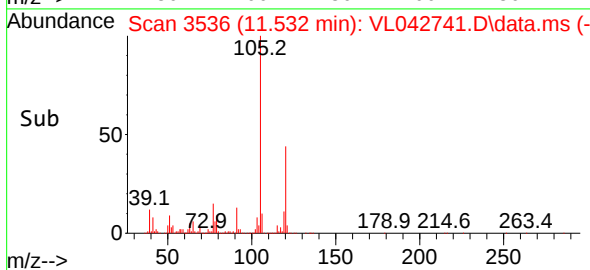
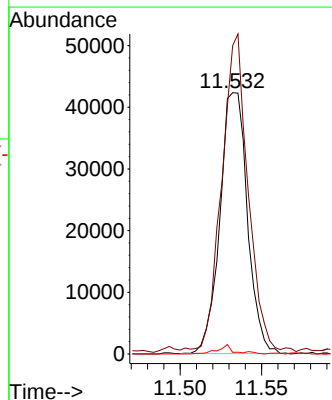
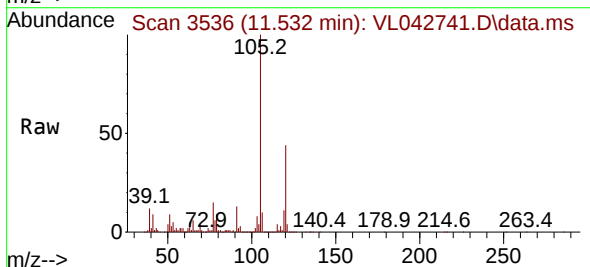
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

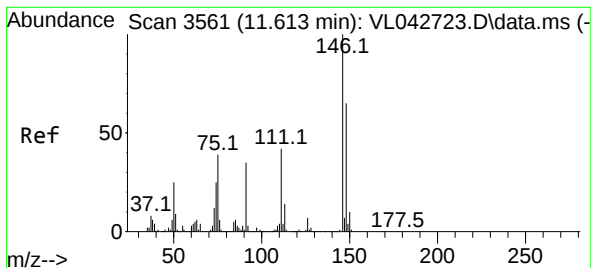
Tgt Ion:120 Resp: 20910
Ion Ratio Lower Upper
120 100
91 461.6 377.4 566.0



#65
tert-Butylbenzene
Concen: 0.945 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. 0.003 min
Lab File: VL042741.D
Acq: 22 Jul 2025 21:12

Tgt Ion:119 Resp: 49628
Ion Ratio Lower Upper
119 100
91 123.9 66.5 99.7#
134 2.1 16.7 25.1#

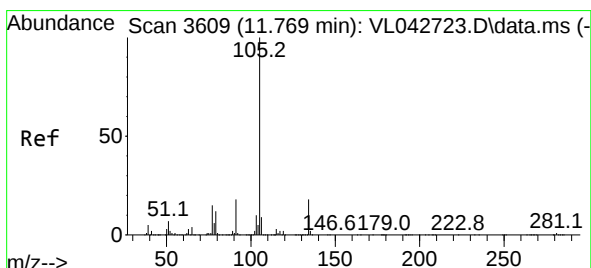
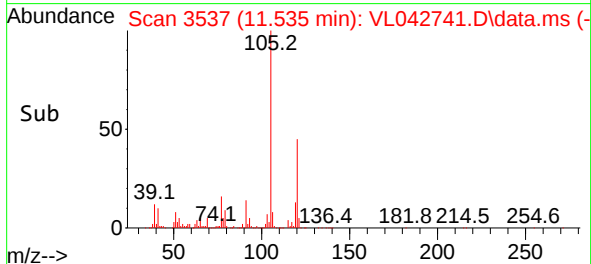
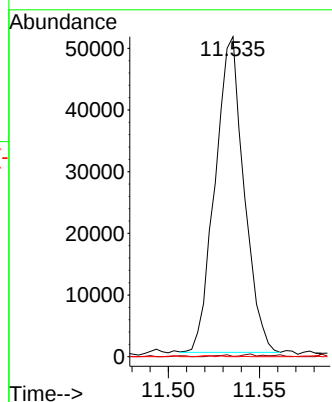
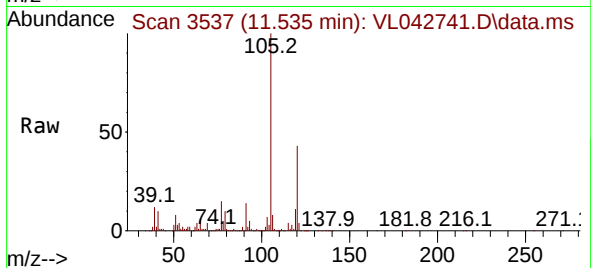




#66
Benzyl Chloride
Concen: 11.292 ppbv
RT: 11.535 min Scan# 3561
Delta R.T. -0.078 min
Lab File: VL042741.D
Acq: 22 Jul 2025 21:12

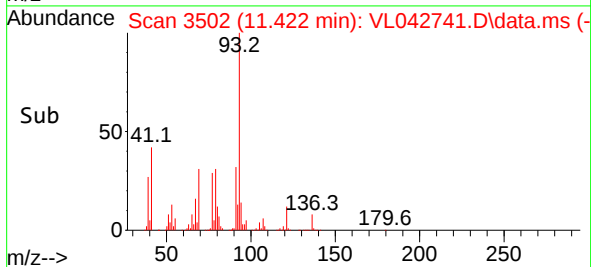
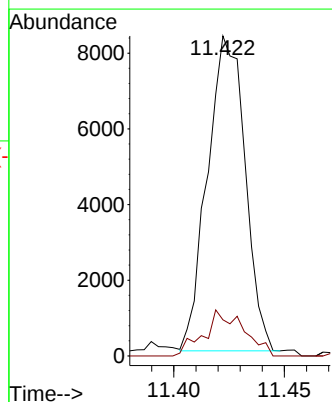
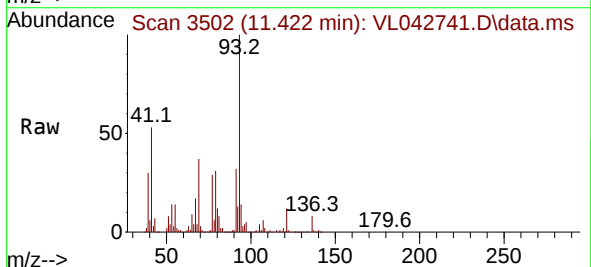
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

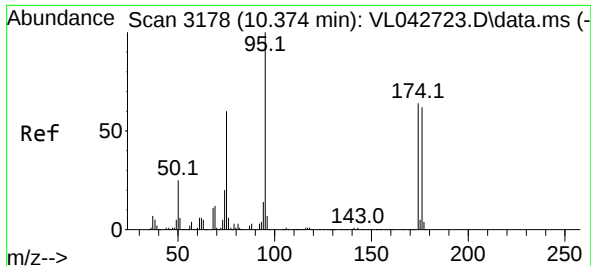
Tgt Ion: 91 Resp: 56400
Ion Ratio Lower Upper
91 100
126 0.9 15.0 22.4#
128 0.3 5.0 7.6#



#67
sec-Butylbenzene
Concen: 0.136 ppbv
RT: 11.422 min Scan# 3502
Delta R.T. -0.346 min
Lab File: VL042741.D
Acq: 22 Jul 2025 21:12

Tgt Ion: 105 Resp: 9845
Ion Ratio Lower Upper
105 100
134 15.3 15.0 22.4

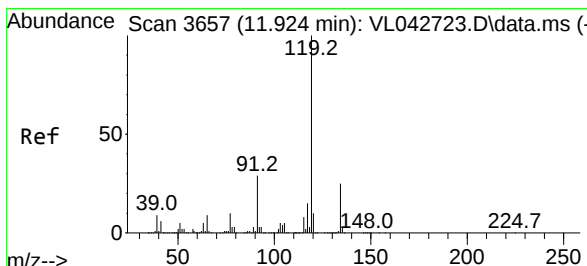
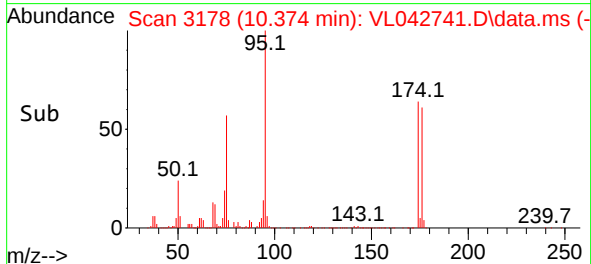
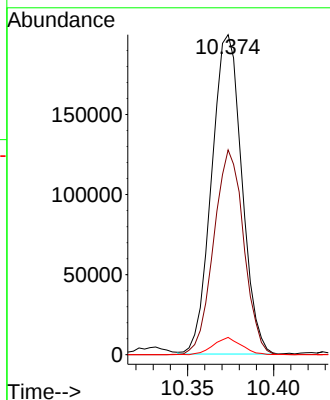
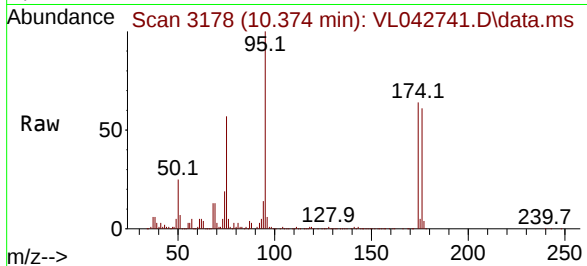




#68
1-Bromo-4-Fluorobenzene
Concen: 10.298 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. -0.000 min
Lab File: VL042741.D
Acq: 22 Jul 2025 21:12

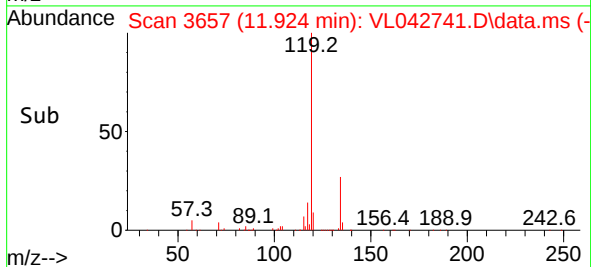
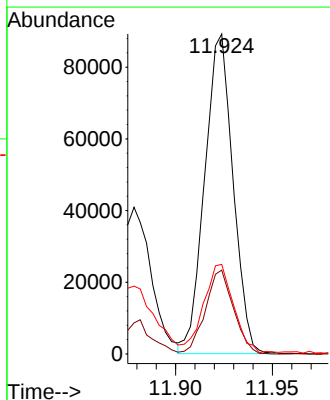
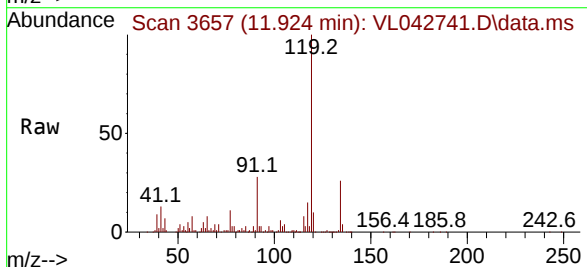
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

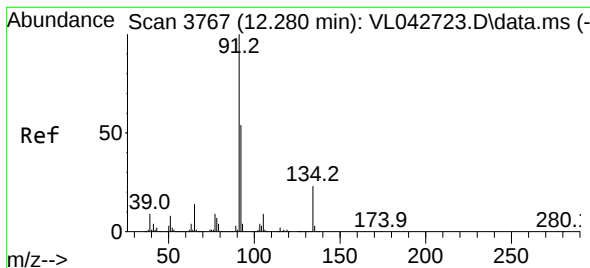
Tgt Ion: 95 Resp: 243485
Ion Ratio Lower Upper
95 100
174 63.8 51.4 77.2
175 5.0 4.2 6.4



#69
p-Isopropyltoluene
Concen: 1.502 ppbv
RT: 11.924 min Scan# 3657
Delta R.T. -0.000 min
Lab File: VL042741.D
Acq: 22 Jul 2025 21:12

Tgt Ion: 119 Resp: 90731
Ion Ratio Lower Upper
119 100
134 25.9 19.8 29.6
91 30.2 23.9 35.9

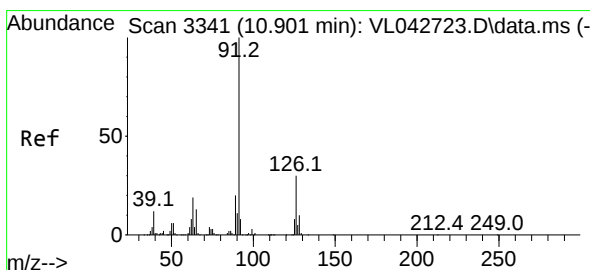
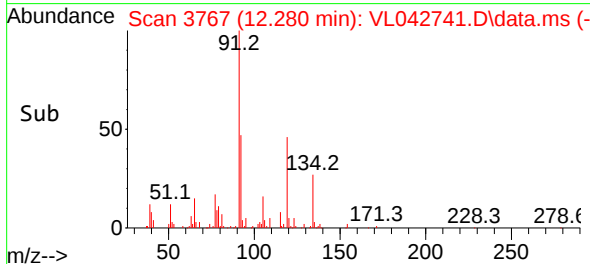
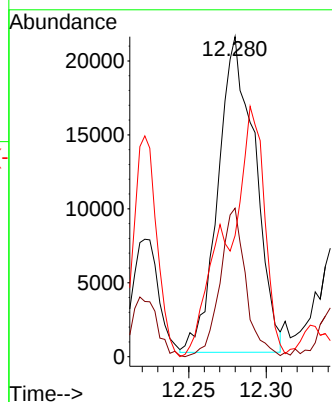
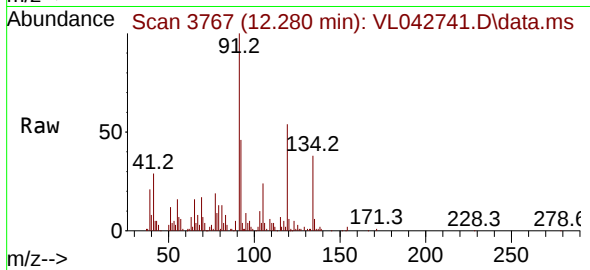




#70
n-Butylbenzene
Concen: 0.613 ppbv
RT: 12.280 min Scan# 31
Delta R.T. -0.000 min
Lab File: VL042741.D
Acq: 22 Jul 2025 21:12

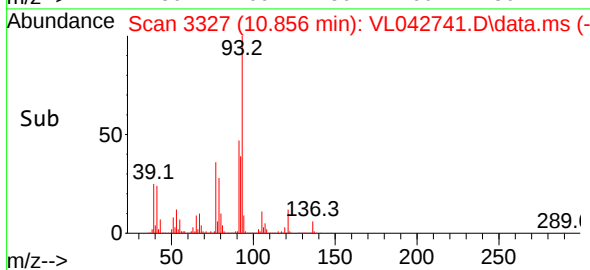
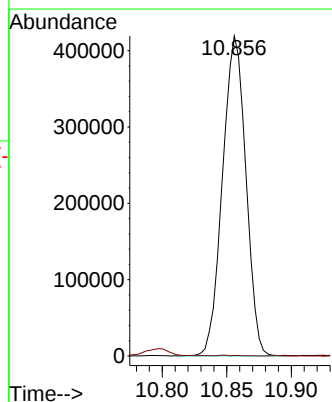
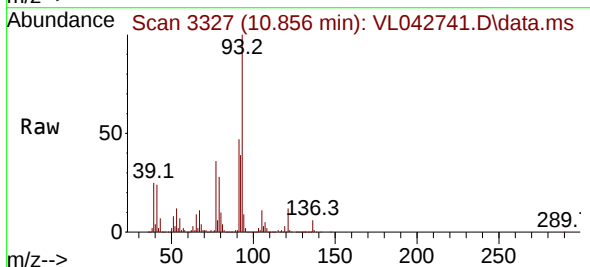
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

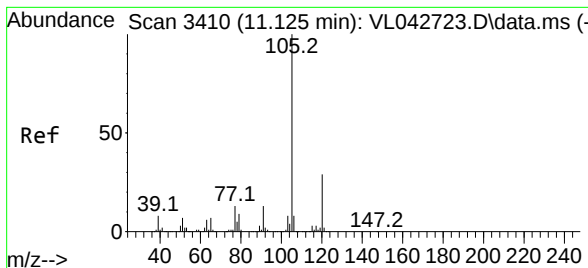
Tgt Ion: 91 Resp: 35372
Ion Ratio Lower Upper
91 100
92 32.7 43.2 64.8#
134 79.8 19.0 28.6#



#71
2-Chlorotoluene
Concen: 11.856 ppbv
RT: 10.856 min Scan# 3327
Delta R.T. -0.045 min
Lab File: VL042741.D
Acq: 22 Jul 2025 21:12

Tgt Ion: 91 Resp: 527388
Ion Ratio Lower Upper
91 100
126 0.1 11.6 46.4#

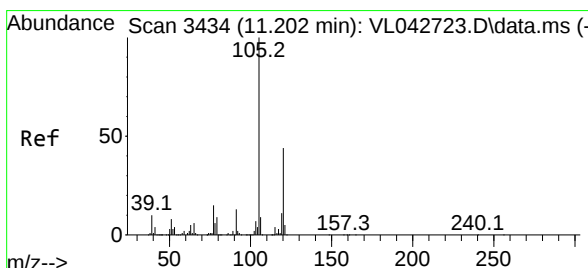
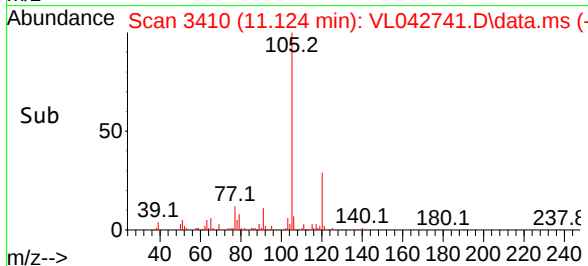
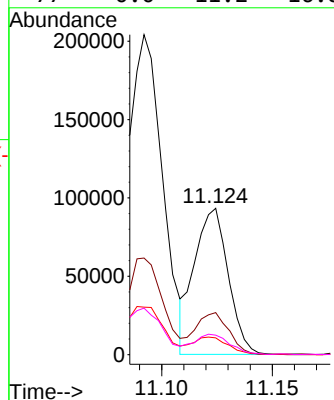
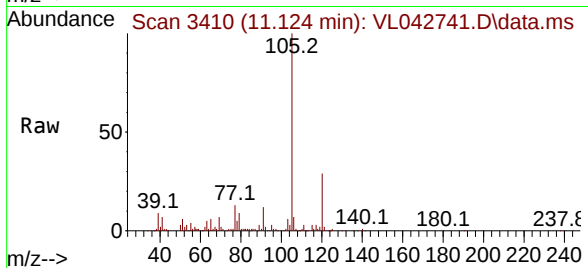




#72
4-Ethyltoluene
Concen: 2.105 ppbv
RT: 11.124 min Scan# 3410
Delta R.T. -0.000 min
Lab File: VL042741.D
Acq: 22 Jul 2025 21:12

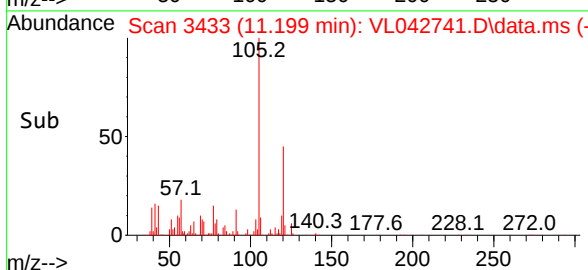
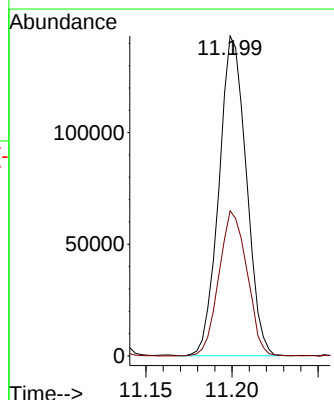
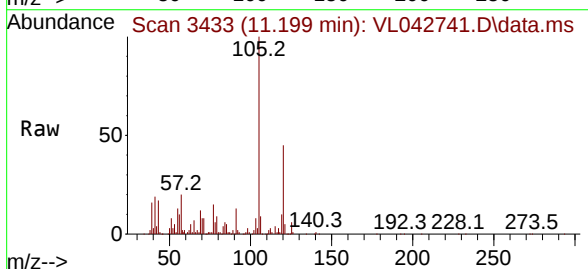
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

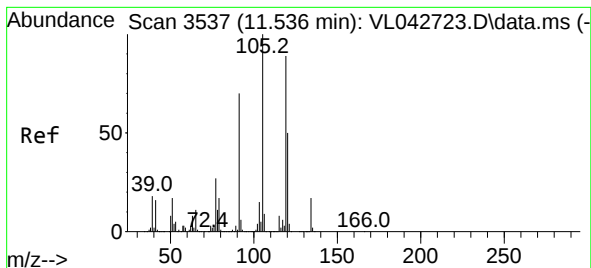
Tgt Ion:105 Resp: 99089
Ion Ratio Lower Upper
105 100
120 0.0 23.4 35.0#
91 0.0 10.6 15.8#
77 0.0 11.2 16.8#



#73
1,3,5-Trimethylbenzene
Concen: 4.068 ppbv
RT: 11.199 min Scan# 3433
Delta R.T. -0.003 min
Lab File: VL042741.D
Acq: 22 Jul 2025 21:12

Tgt Ion:105 Resp: 158369
Ion Ratio Lower Upper
105 100
120 45.3 35.2 52.8





#74

1,2,4-Trimethylbenzene

Concen: 9.639 ppbv

RT: 11.532 min Scan# 3537

Delta R.T. -0.003 min

Lab File: VL042741.D

Acq: 22 Jul 2025 21:12

Instrument :

MSVOA_1

ClientSampleId :

IA1DUP

Tgt Ion:105 Resp: 411701

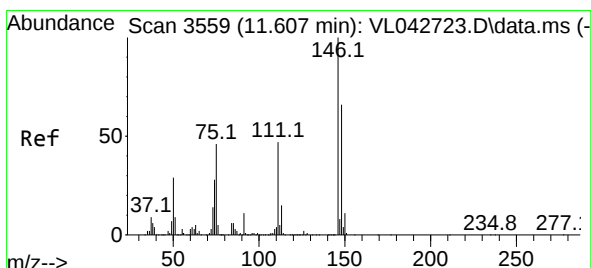
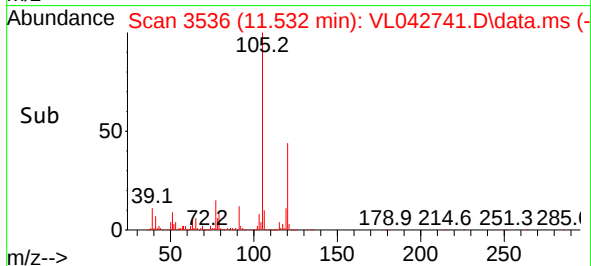
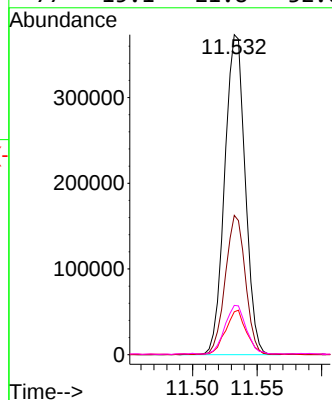
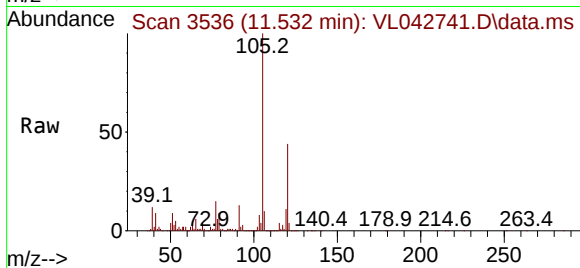
Ion Ratio Lower Upper

105 100

120 43.5 39.9 59.9

91 13.2 56.5 84.7#

77 15.1 21.8 32.6#



#75

1,3-Dichlorobenzene

Concen: 0.151 ppbv

RT: 11.671 min Scan# 3579

Delta R.T. 0.065 min

Lab File: VL042741.D

Acq: 22 Jul 2025 21:12

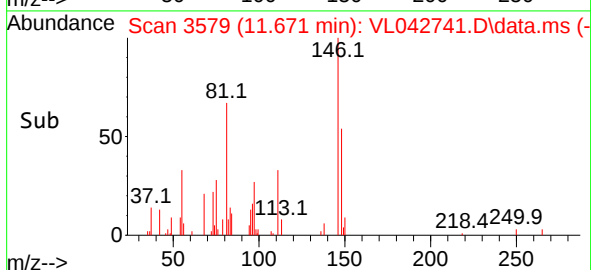
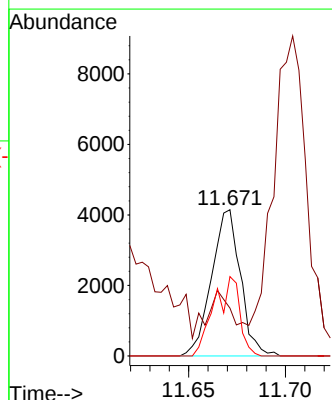
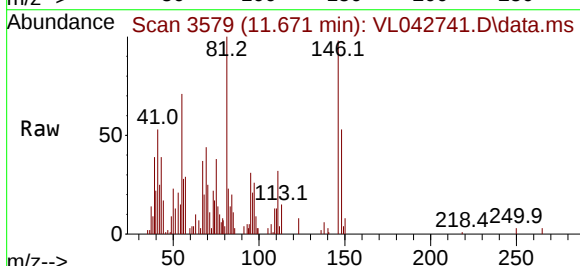
Tgt Ion:146 Resp: 4302

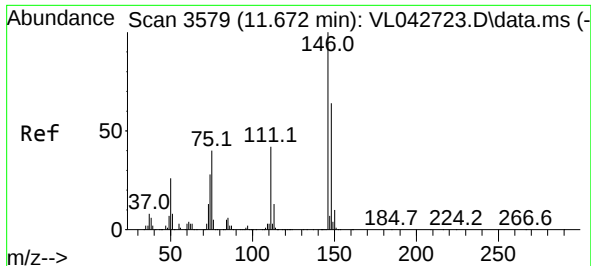
Ion Ratio Lower Upper

146 100

111 250.0 23.5 70.5#

148 48.2 32.6 98.0

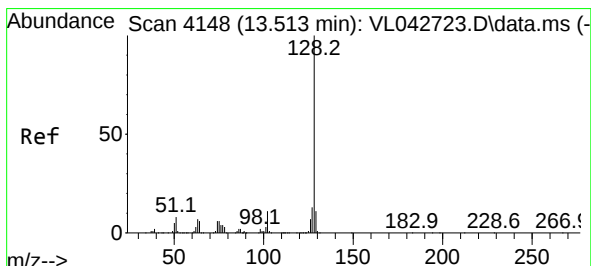
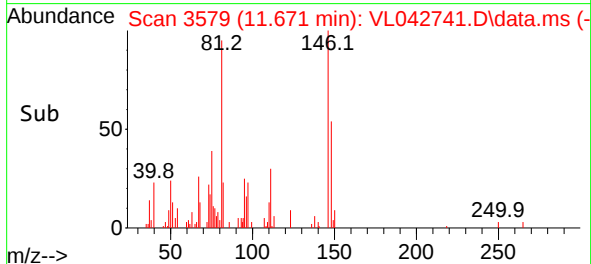
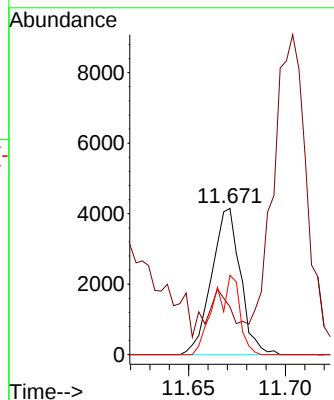
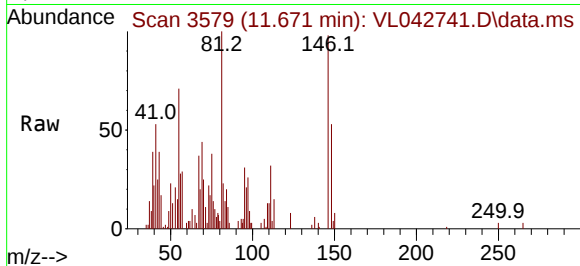




#76
1,4-Dichlorobenzene
Concen: 0.156 ppbv
RT: 11.671 min Scan# 311
Delta R.T. -0.000 min
Lab File: VL042741.D
Acq: 22 Jul 2025 21:12

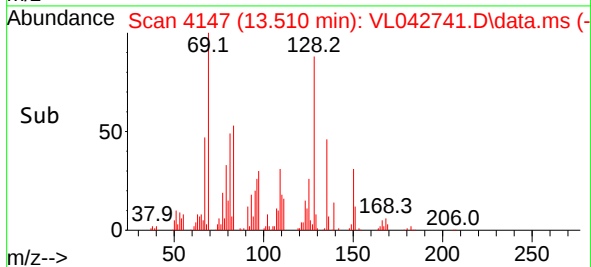
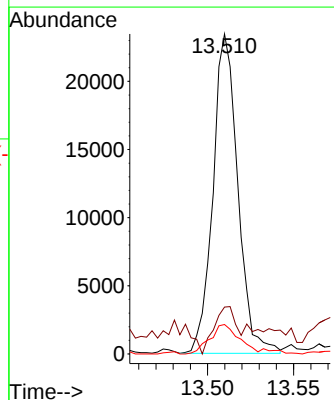
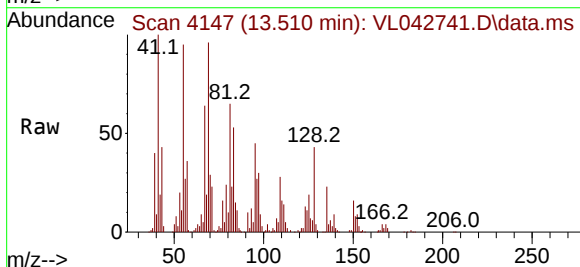
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

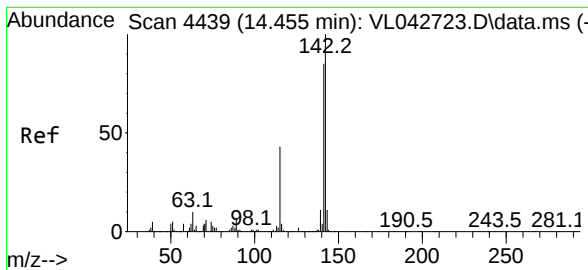
Tgt Ion:146 Resp: 4302
Ion Ratio Lower Upper
146 100
111 276.5 22.1 66.1#
148 48.2 32.1 96.5



#79
Naphthalene
Concen: 0.738 ppbv
RT: 13.510 min Scan# 4147
Delta R.T. -0.003 min
Lab File: VL042741.D
Acq: 22 Jul 2025 21:12

Tgt Ion:128 Resp: 23579
Ion Ratio Lower Upper
128 100
127 8.7 10.3 15.5#
129 9.2 8.6 13.0





#80
Naphthalene, 2-methyl-
Concen: 0.302 ppbv
RT: 14.455 min Scan# 44
Delta R.T. -0.000 min
Lab File: VL042741.D
Acq: 22 Jul 2025 21:12

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion:	142	Resp:	3179
Ion Ratio	Lower	Upper	
142	100		
141	108.6	65.6	98.4#
115	44.8	31.7	47.5

