

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
 Data File : VL043216.D
 Acq On : 18 Nov 2025 17:06
 Operator : SY/MD
 Sample : Q3651-04
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2

Quant Time: Nov 19 01:37:09 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Nov 19 01:11:25 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	100351	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	262303	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	209925	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	153270	9.961	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.600%

Target Compounds				Qvalue		
2) Dichlorodifluoromethane	1.499	85	6238	0.441	ppbv	94
3) Chlorodifluoromethane	1.466	51	10166	0.730	ppbv #	58
4) Chloromethane	1.531	50	2391	0.452	ppbv	89
8) Dichlorotetrafluoroethane	1.499	85	6238	0.530	ppbv #	17
9) Propene	1.489	41	27746	4.694	ppbv #	1
10) Heptane	4.968	43	27866	1.584	ppbv #	47
11) Trichlorofluoromethane	1.877	101	16627	1.212	ppbv	95
12) 1,1,2-Trichlorotrifluo...	2.140	101	457	0.043	ppbv #	67
13) Ethanol	1.719	45	45525	21.903	ppbv	98
15) Acetone	1.832	43	266713	19.130	ppbv	96
16) 1,3-Butadiene	1.599	39	893	0.144	ppbv #	12
17) tert-Butyl alcohol	2.039	59	1431	0.078	ppbv #	71
19) Isopropyl Alcohol	1.884	45	160275	20.344	ppbv	98
20) Methylene Chloride	2.059	84	968424	254.954	ppbv	84
21) Allyl Chloride	2.059	41	40240	4.290	ppbv #	28
23) Vinyl Acetate	2.473	43	18546	1.102	ppbv #	40
25) Ethyl Acetate	2.832	43	62337	2.073	ppbv #	94
26) Hexane	2.826	57	32285	2.449	ppbv	86
28) Methyl tert-Butyl Ether	2.551	73	6126	0.947	ppbv #	1
30) Cyclohexane	3.852	84	30559	2.765	ppbv	98
31) cis-1,2-Dichloroethene	2.835	61	5027	0.384	ppbv #	26
34) 2-Butanone	2.551	43	575504	31.082	ppbv	99
35) Carbon Tetrachloride	3.755	117	700	0.035	ppbv #	78
36) Benzene	3.651	78	5661	0.225	ppbv	97
37) 1,2-Dichloroethane	3.217	62	1280	0.087	ppbv	97
39) 1,2-Dichloropropane	3.949	63	67245	7.314	ppbv #	24
41) Tetrahydrofuran	3.055	42	2926	0.286	ppbv #	47
43) Methyl Methacrylate	4.874	69	560	0.042	ppbv #	1
44) 2,2,4-Trimethylpentane	4.638	57	75256	1.744	ppbv #	83
50) 4-Methyl-2-Pentanone	5.742	43	1883	0.072	ppbv #	39
51) 2-Hexanone	7.415	43	14672	0.724	ppbv #	35
52) Tetrachloroethene	8.215	164	1185	0.127	ppbv	87
53) Toluene	6.930	91	1941988	65.288	ppbv	98
58) Ethyl Benzene	9.348	91	110526	2.735	ppbv	100
59) m/p-Xylene	9.526	91	294403	9.088	ppbv	100
60) o-Xylene	9.956	91	64946	2.007	ppbv	96
61) Styrene	9.862	104	1197	0.085	ppbv #	50
64) n-propylbenzene	10.988	120	840	0.056	ppbv #	1
65) tert-Butylbenzene	11.875	119	1913	0.037	ppbv	90
66) Benzyl Chloride	11.532	91	3533	0.673	ppbv #	66
69) p-Isopropyltoluene	11.921	119	2092	0.034	ppbv	98
71) 2-Chlorotoluene	10.849	91	11488	0.258	ppbv #	53
72) 4-Ethyltoluene	11.124	105	6660	0.169	ppbv #	55

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Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

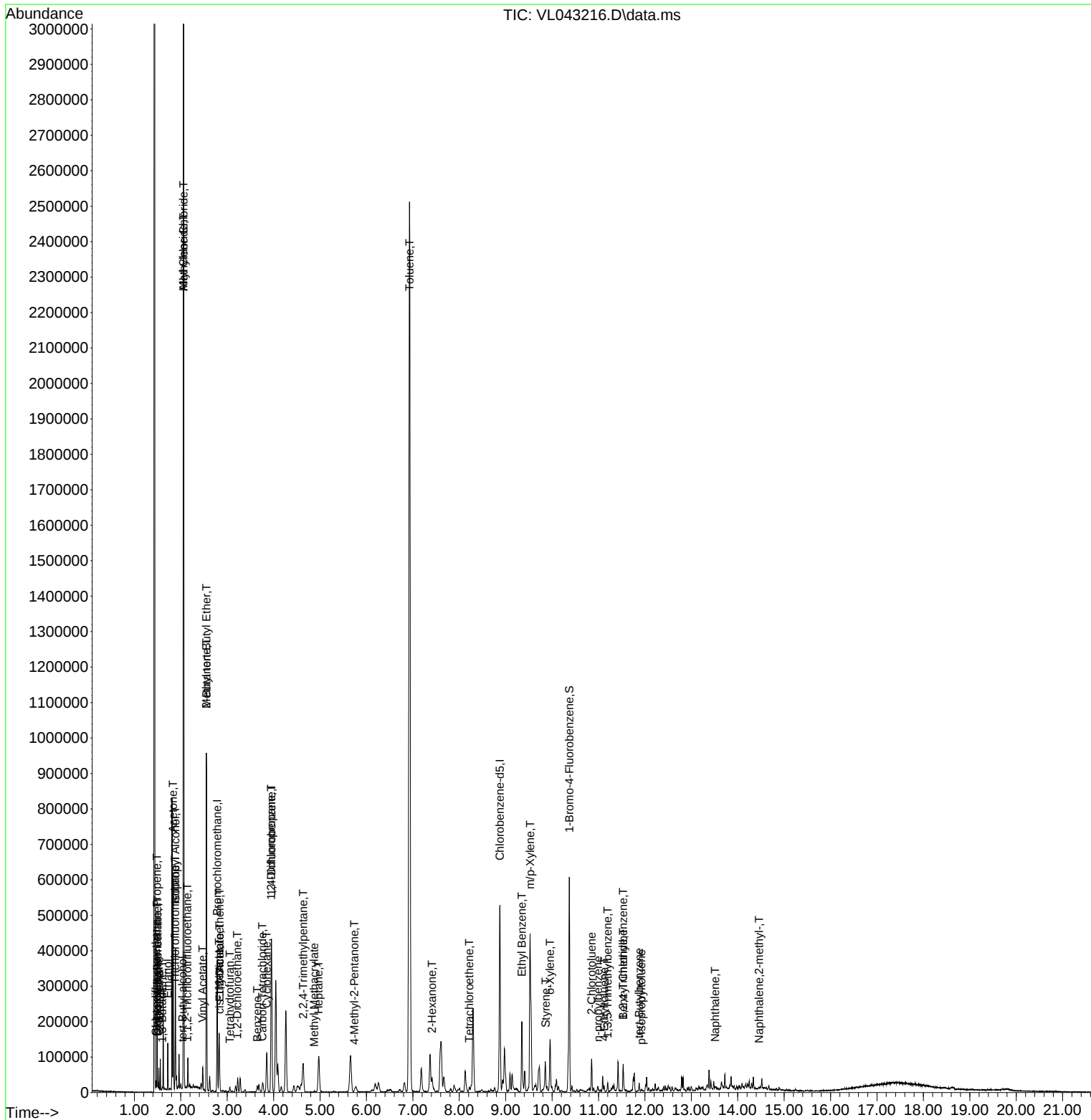
Instrument :
MSVOA_L
ClientSampleId :
IA2

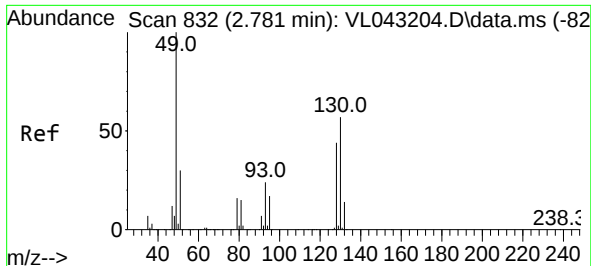
Quant Time: Nov 19 01:37:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
73) 1,3,5-Trimethylbenzene	11.199	105	7120	0.215	ppbv	99
74) 1,2,4-Trimethylbenzene	11.532	105	25655	0.711	ppbv #	48
79) Naphthalene	13.510	128	3197	0.100	ppbv	95
80) Naphthalene,2-methyl-	14.461	142	940	0.112	ppbv #	53

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

Quant Time: Nov 19 01:37:09 2025
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 01:11:25 2025
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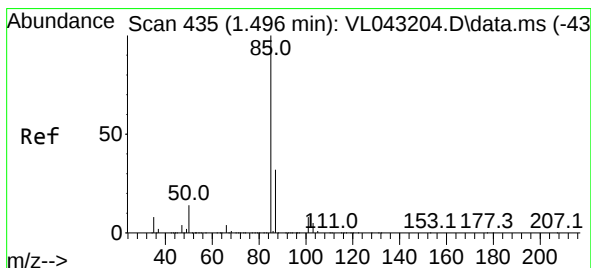
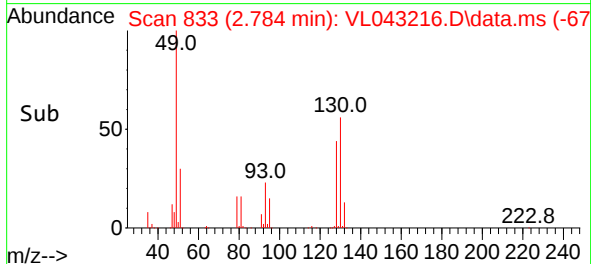
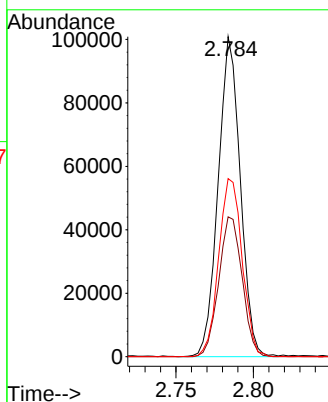
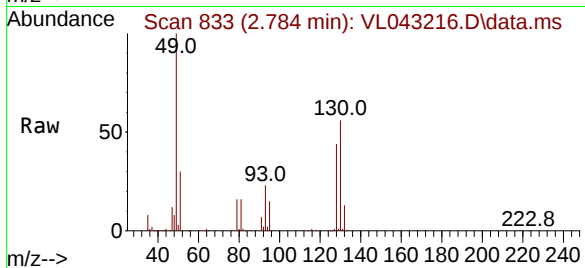




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL043216.D
Acq: 18 Nov 2025 17:06

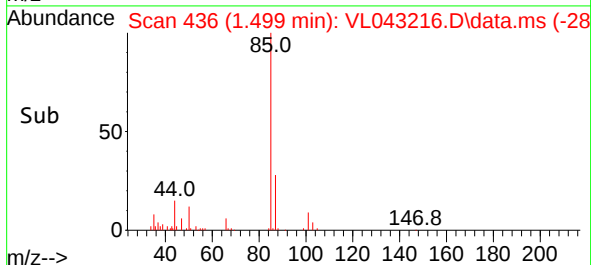
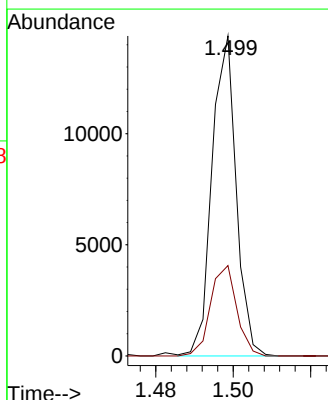
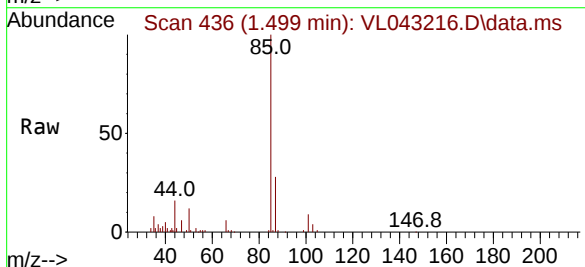
Instrument :
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IA2

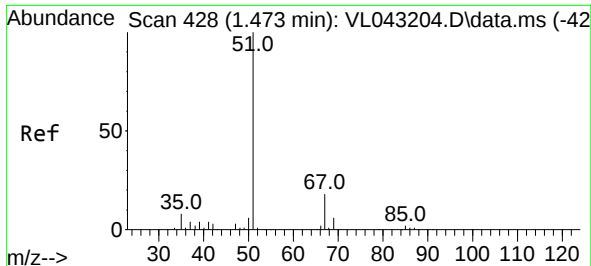
Tgt Ion: 49 Resp: 100351
Ion Ratio Lower Upper
49 100
128 46.1 23.0 69.0
130 59.1 29.9 89.7



#2
Dichlorodifluoromethane
Concen: 0.441 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043216.D
Acq: 18 Nov 2025 17:06

Tgt Ion: 85 Resp: 6238
Ion Ratio Lower Upper
85 100
87 28.3 25.4 38.2

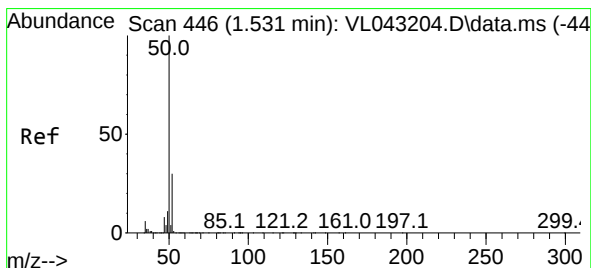
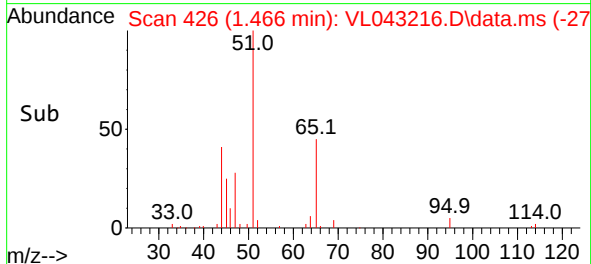
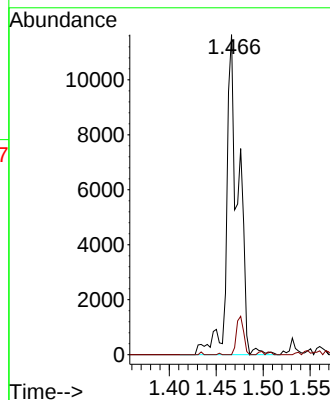
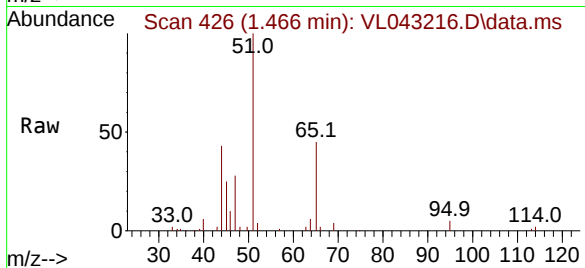




#3
Chlorodifluoromethane
Concen: 0.730 ppbv
RT: 1.466 min Scan# 41
Delta R.T. -0.007 min
Lab File: VL043216.D
Acq: 18 Nov 2025 17:06

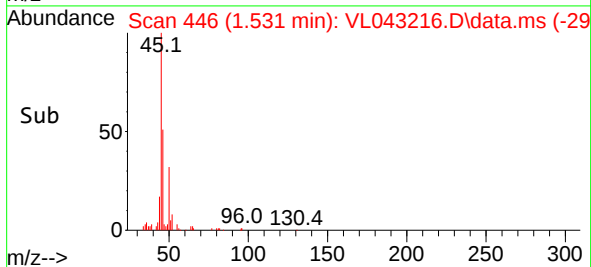
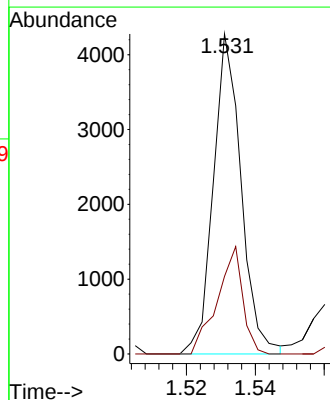
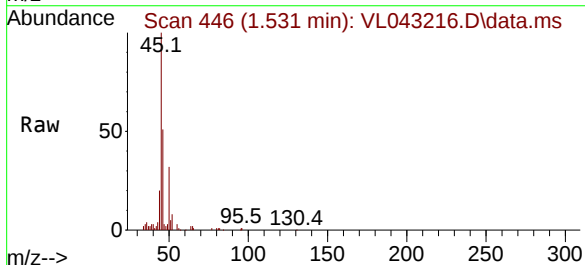
Instrument :
MSVOA_L
ClientSampleId :
IA2

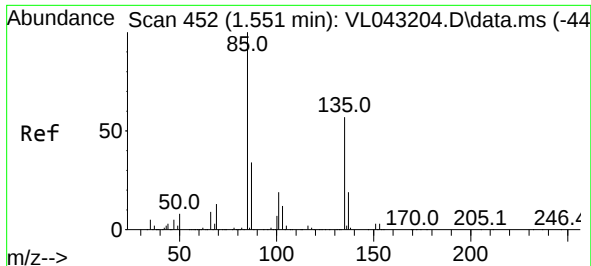
Tgt Ion: 51 Resp: 10166
Ion Ratio Lower Upper
51 100
67 0.0 14.9 22.3#



#4
Chloromethane
Concen: 0.452 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL043216.D
Acq: 18 Nov 2025 17:06

Tgt Ion: 50 Resp: 2391
Ion Ratio Lower Upper
50 100
52 24.2 24.1 36.1

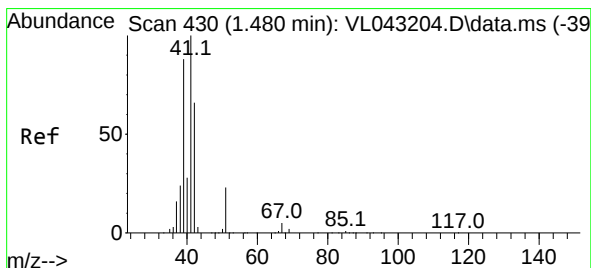
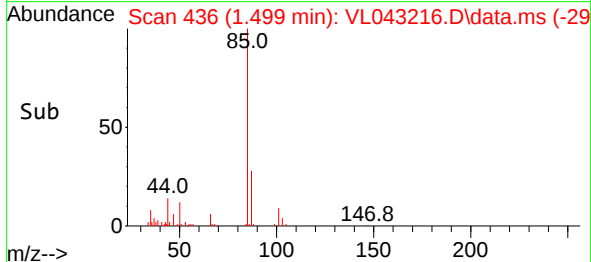
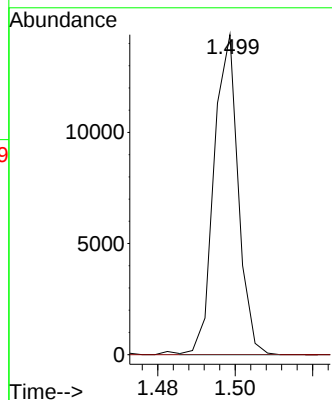
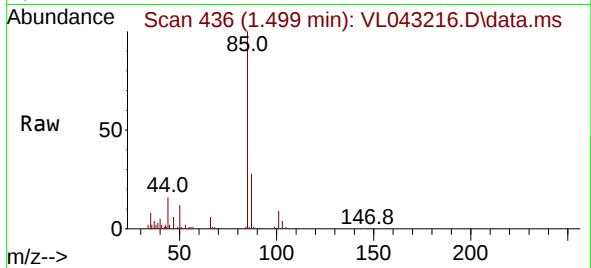




#8
 Dichlorotetrafluoroethane
 Concen: 0.530 ppbv
 RT: 1.499 min Scan# 41
 Delta R.T. -0.052 min
 Lab File: VL043216.D
 Acq: 18 Nov 2025 17:06

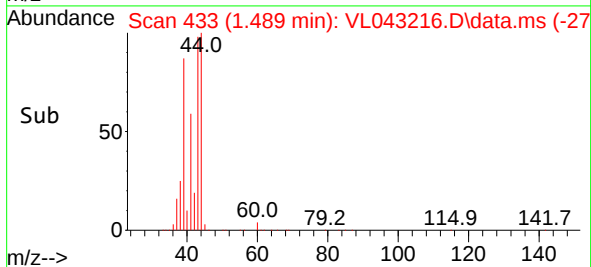
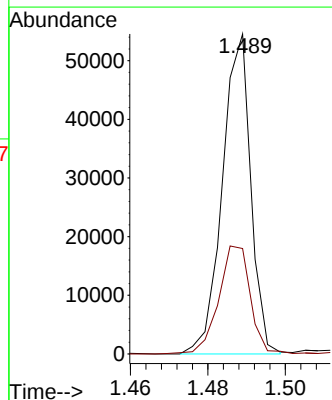
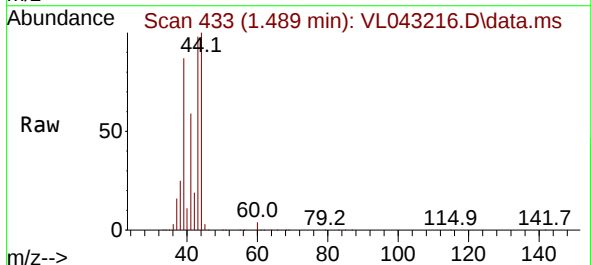
Instrument :
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 ClientSampleId :
 IA2

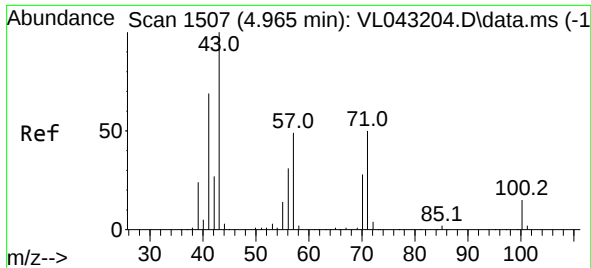
Tgt Ion: 85 Resp: 6238
 Ion Ratio Lower Upper
 85 100
 135 0.0 52.6 79.0#



#9
 Propene
 Concen: 4.694 ppbv
 RT: 1.489 min Scan# 433
 Delta R.T. 0.009 min
 Lab File: VL043216.D
 Acq: 18 Nov 2025 17:06

Tgt Ion: 41 Resp: 27746
 Ion Ratio Lower Upper
 41 100
 42 38.2 3.7 5.5#

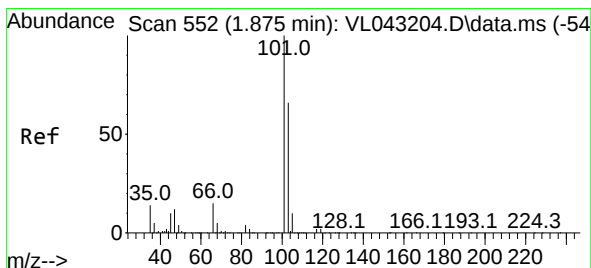
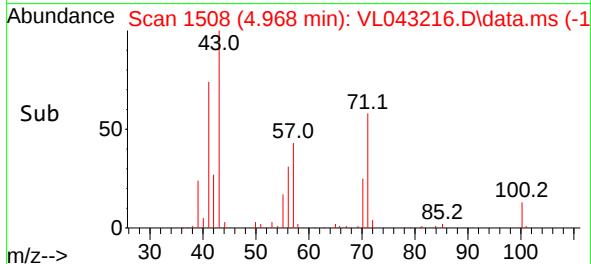
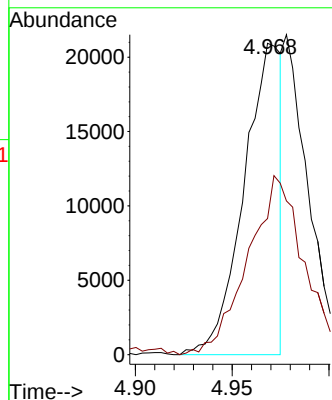
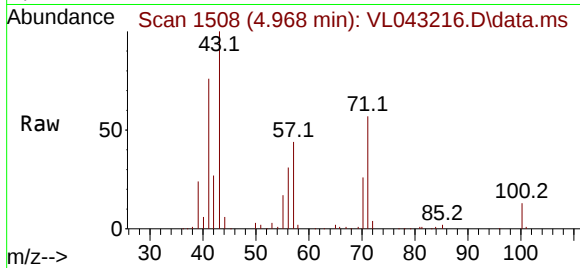




#10
Heptane
Concen: 1.584 ppbv
RT: 4.968 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL043216.D
Acq: 18 Nov 2025 17:06

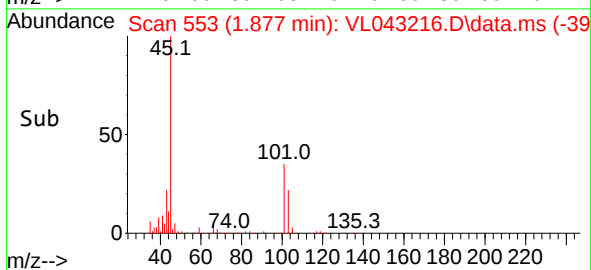
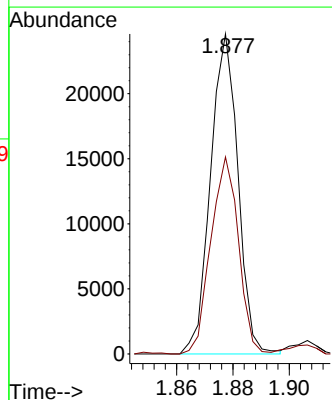
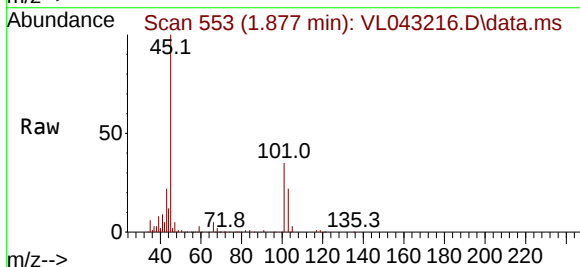
Instrument :
MSVOA_L
ClientSampleId :
IA2

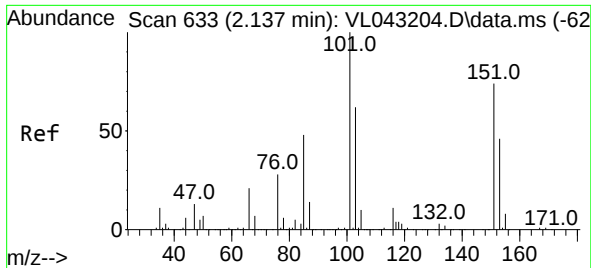
Tgt Ion: 43 Resp: 27866
Ion Ratio Lower Upper
43 100
57 86.2 39.7 59.5#



#11
Trichlorofluoromethane
Concen: 1.212 ppbv
RT: 1.877 min Scan# 553
Delta R.T. 0.003 min
Lab File: VL043216.D
Acq: 18 Nov 2025 17:06

Tgt Ion:101 Resp: 16627
Ion Ratio Lower Upper
101 100
103 61.5 52.6 79.0

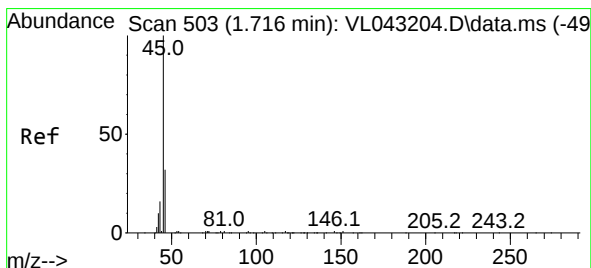
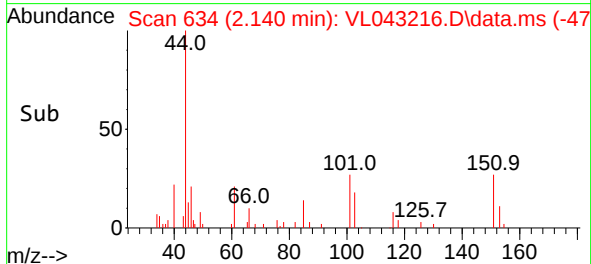
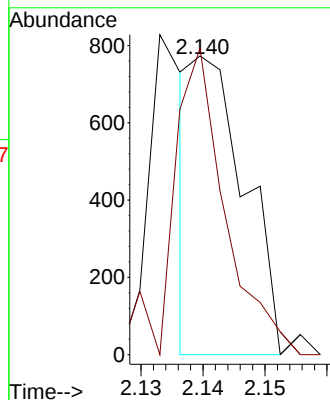
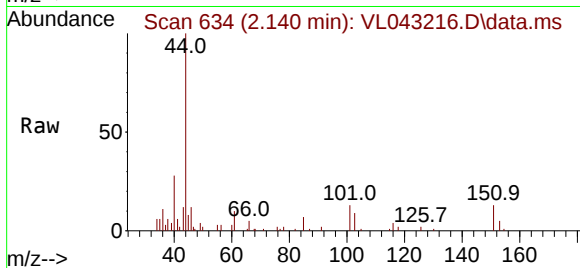




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.043 ppbv
RT: 2.140 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL043216.D
Acq: 18 Nov 2025 17:06

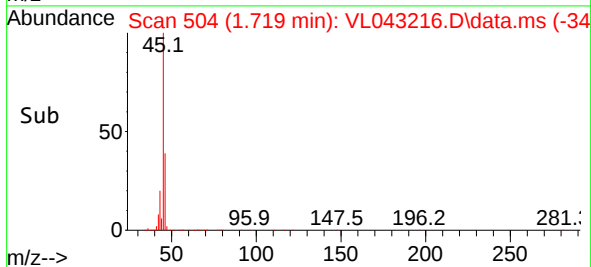
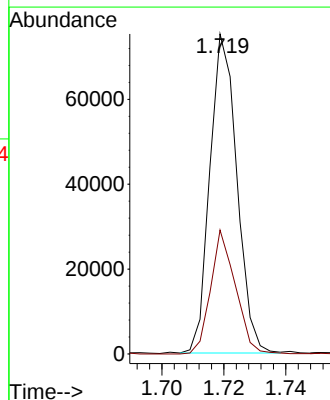
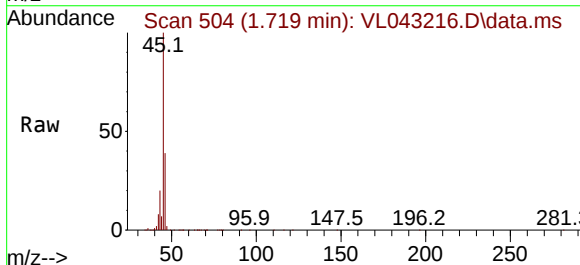
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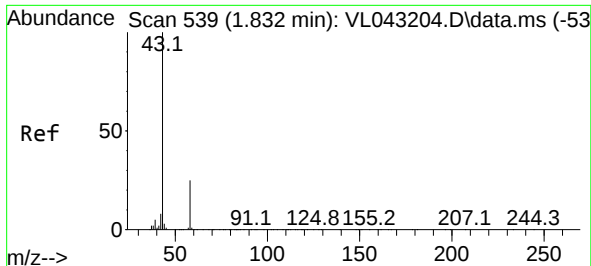
Tgt Ion:101 Resp: 457
Ion Ratio Lower Upper
101 100
151 101.5 59.2 88.8#



#13
Ethanol
Concen: 21.903 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL043216.D
Acq: 18 Nov 2025 17:06

Tgt Ion: 45 Resp: 45525
Ion Ratio Lower Upper
45 100
46 36.1 15.0 59.8

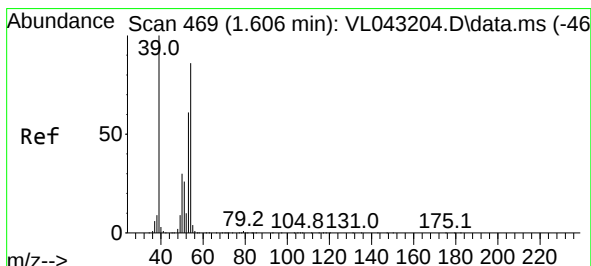
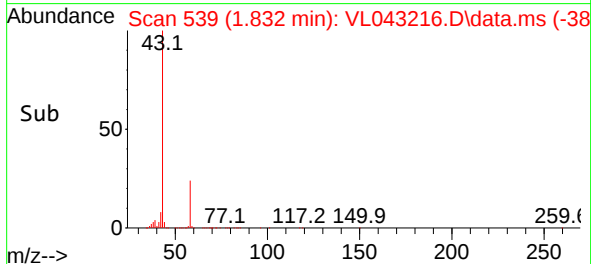
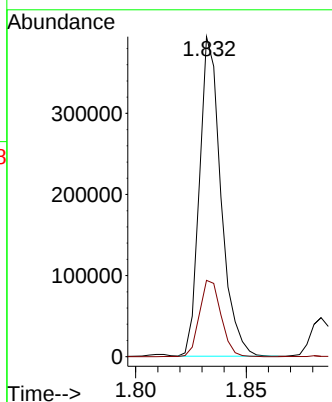
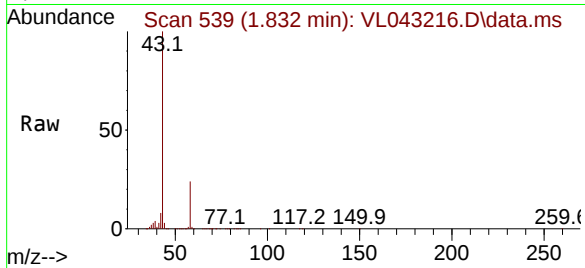




#15
Acetone
Concen: 19.130 ppbv
RT: 1.832 min Scan# 51
Delta R.T. -0.000 min
Lab File: VL043216.D
Acq: 18 Nov 2025 17:06

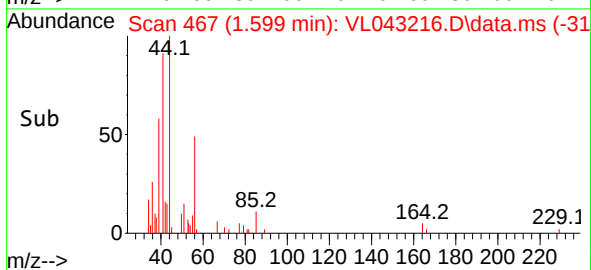
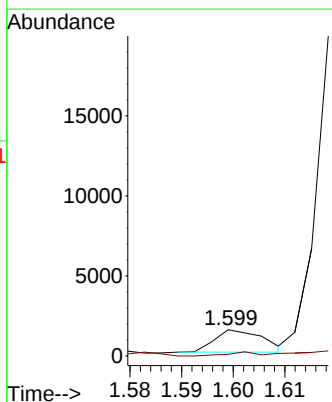
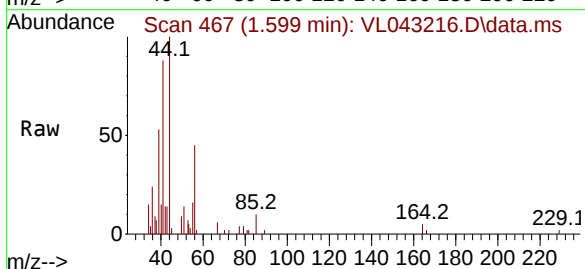
Instrument :
MSVOA_L
ClientSampleId :
IA2

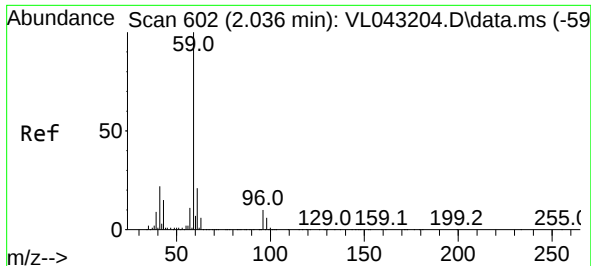
Tgt Ion: 43 Resp: 266713
Ion Ratio Lower Upper
43 100
58 24.1 20.7 31.1



#16
1,3-Butadiene
Concen: 0.144 ppbv
RT: 1.599 min Scan# 467
Delta R.T. -0.007 min
Lab File: VL043216.D
Acq: 18 Nov 2025 17:06

Tgt Ion: 39 Resp: 893
Ion Ratio Lower Upper
39 100
54 0.0 59.4 89.2#





#17

tert-Butyl alcohol

Concen: 0.078 ppbv

RT: 2.039 min Scan# 602

Delta R.T. 0.003 min

Lab File: VL043216.D

Acq: 18 Nov 2025 17:06

Instrument :

MSVOA_L

ClientSampleId :

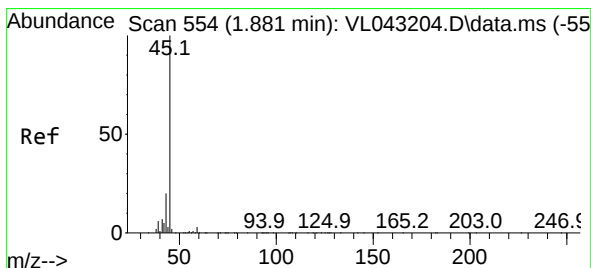
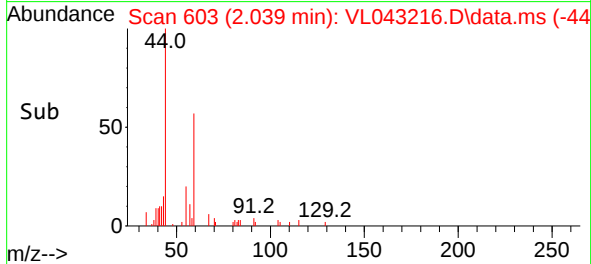
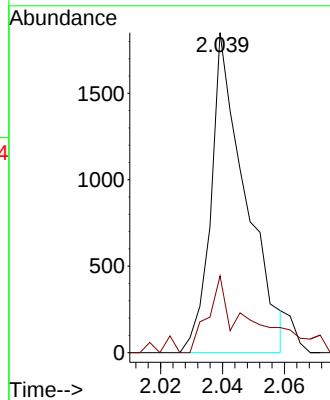
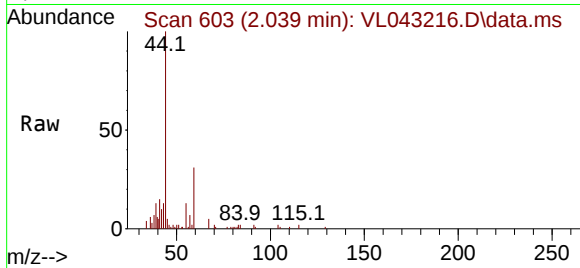
IA2

Tgt Ion: 59 Resp: 1431

Ion Ratio Lower Upper

59 100

57 0.0 9.0 13.4#



#19

Isopropyl Alcohol

Concen: 20.344 ppbv

RT: 1.884 min Scan# 555

Delta R.T. 0.003 min

Lab File: VL043216.D

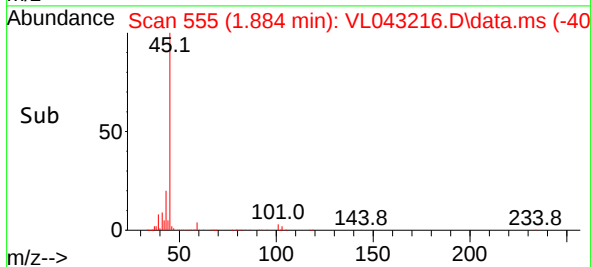
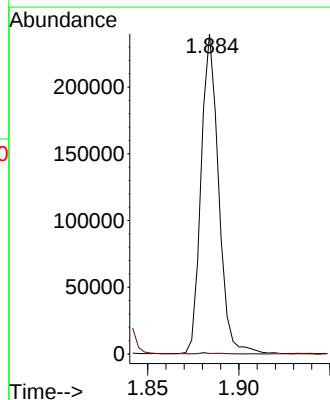
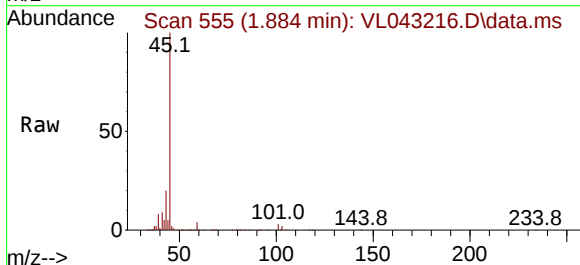
Acq: 18 Nov 2025 17:06

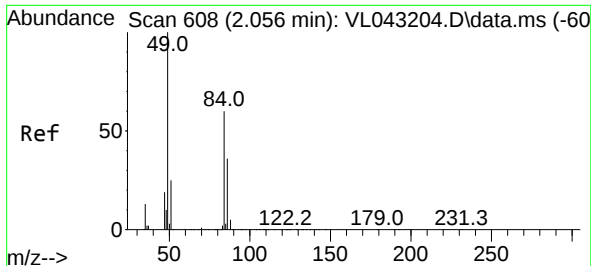
Tgt Ion: 45 Resp: 160275

Ion Ratio Lower Upper

45 100

58 40.1 31.3 46.9

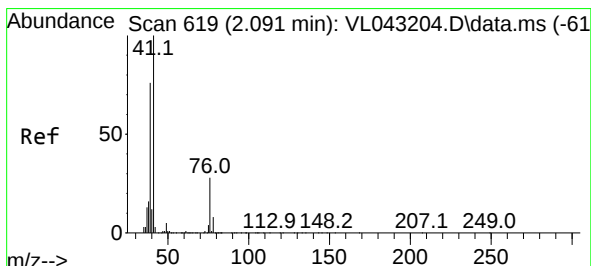
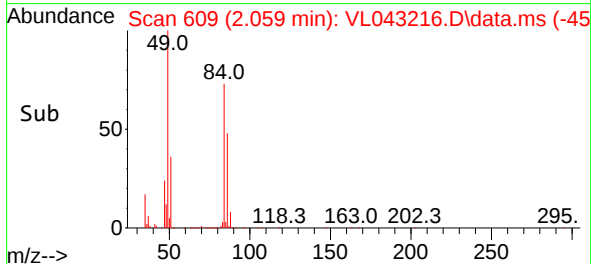
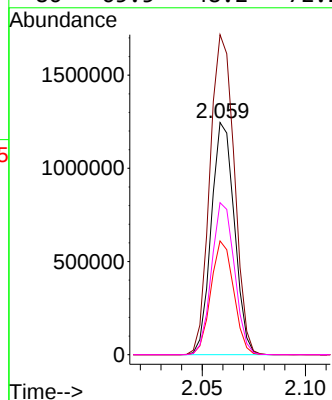
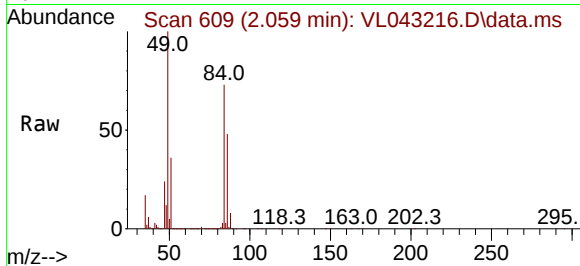




#20
Methylene Chloride
Concen: 254.954 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.003 min
Lab File: VL043216.D
Acq: 18 Nov 2025 17:06

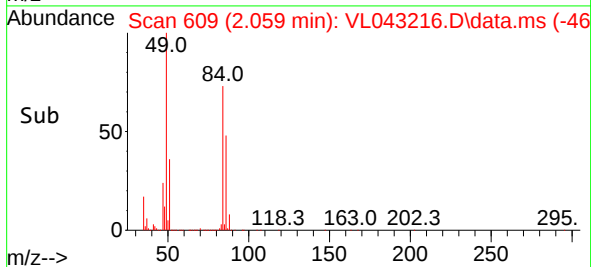
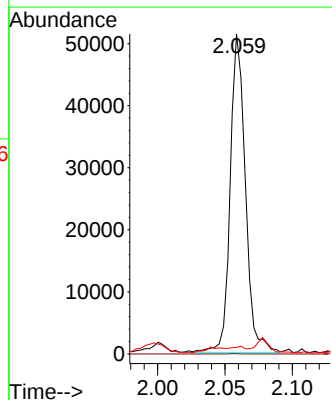
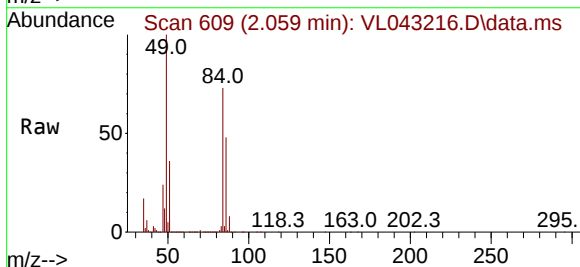
Instrument :
MSVOA_L
ClientSampleId :
IA2

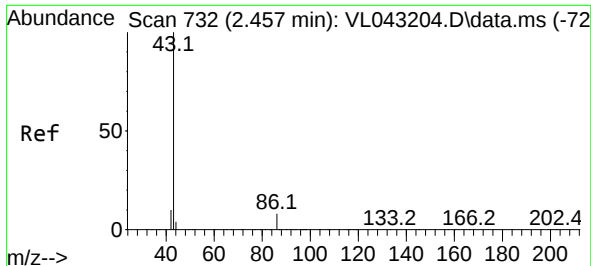
Tgt Ion: 84 Resp: 968424
Ion Ratio Lower Upper
84 100
49 137.9 132.9 199.3
51 49.0 34.8 52.2
86 65.5 48.2 72.2



#21
Allyl Chloride
Concen: 4.290 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.033 min
Lab File: VL043216.D
Acq: 18 Nov 2025 17:06

Tgt Ion: 41 Resp: 40240
Ion Ratio Lower Upper
41 100
76 0.1 22.1 33.1#
39 8.6 61.0 91.4#

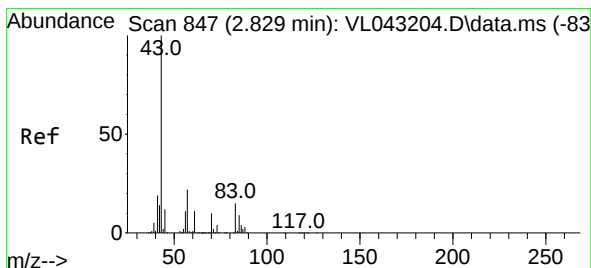
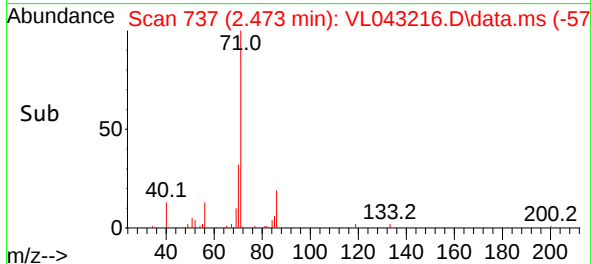
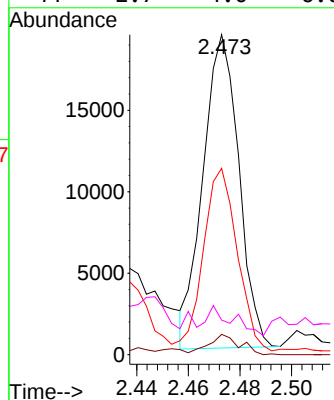
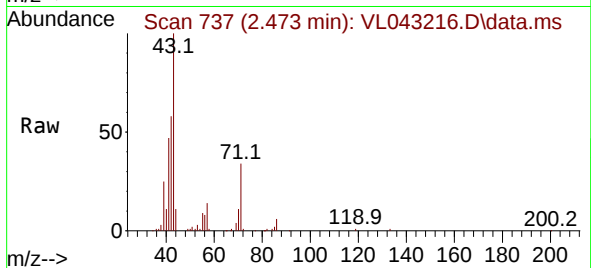




#23
 Vinyl Acetate
 Concen: 1.102 ppbv
 RT: 2.473 min Scan# 71
 Delta R.T. 0.016 min
 Lab File: VL043216.D
 Acq: 18 Nov 2025 17:06

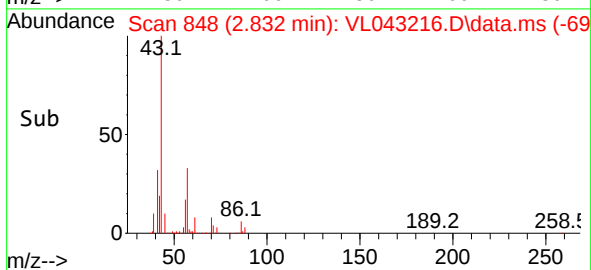
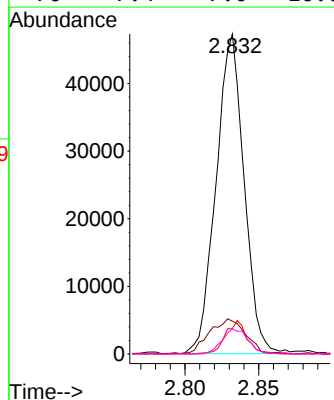
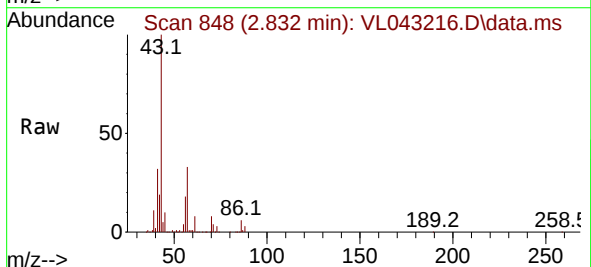
Instrument :
 MSVOA_L
 ClientSampleId :
 IA2

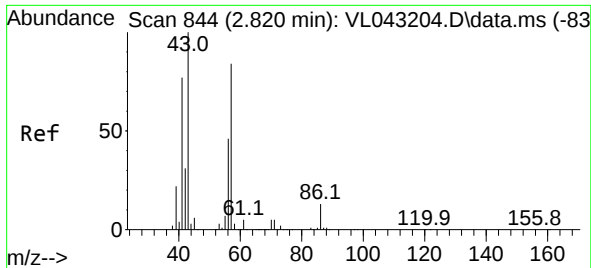
Tgt Ion: 43	Resp: 18546
Ion Ratio	Lower Upper
43 100	
86 6.5	6.2 9.2
42 58.1	8.0 12.0#
44 2.7	4.0 6.0#



#25
 Ethyl Acetate
 Concen: 2.073 ppbv
 RT: 2.832 min Scan# 848
 Delta R.T. 0.003 min
 Lab File: VL043216.D
 Acq: 18 Nov 2025 17:06

Tgt Ion: 43	Resp: 62337
Ion Ratio	Lower Upper
43 100	
45 14.4	8.1 12.1#
61 8.1	7.0 10.4
70 7.4	7.0 10.6

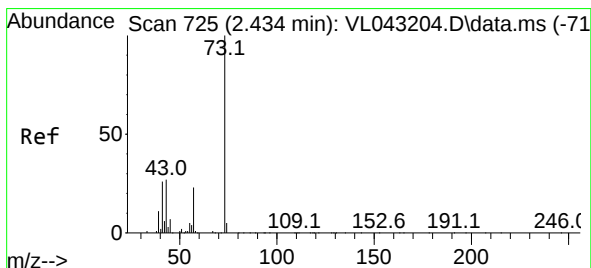
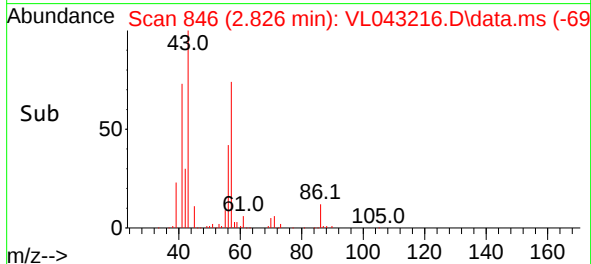
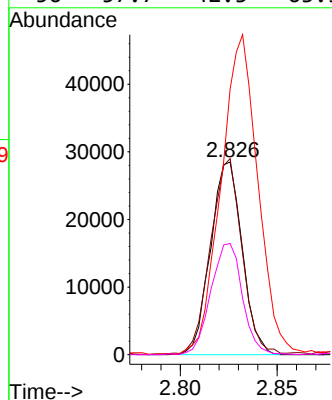
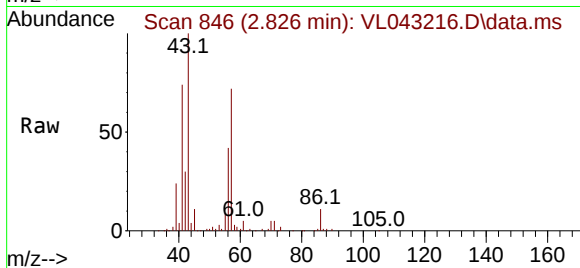




#26
Hexane
Concen: 2.449 ppbv
RT: 2.826 min Scan# 844
Delta R.T. 0.006 min
Lab File: VL043216.D
Acq: 18 Nov 2025 17:06

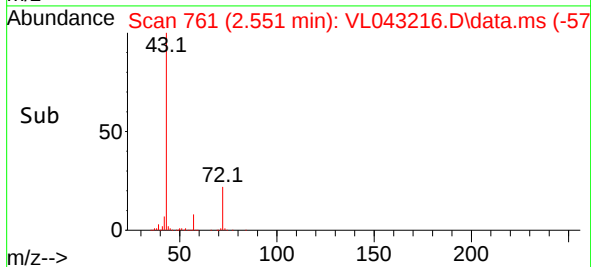
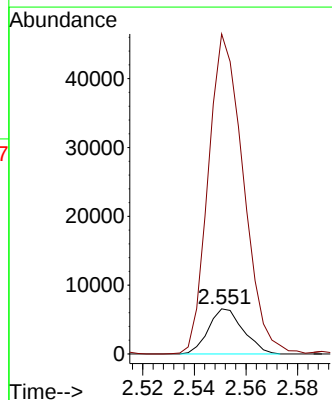
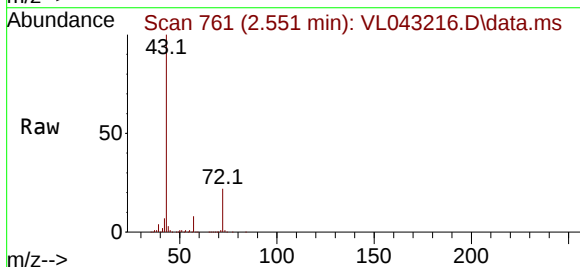
Instrument :
MSVOA_L
ClientSampleId :
IA2

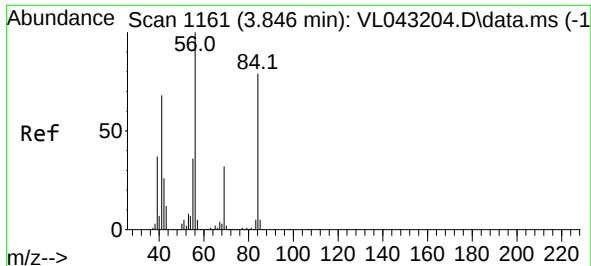
Tgt Ion:	57	Resp:	32285
Ion	Ratio	Lower	Upper
57	100		
41	102.0	74.6	111.8
43	196.1	179.0	268.4
56	57.7	42.3	63.5



#28
Methyl tert-Butyl Ether
Concen: 0.947 ppbv
RT: 2.551 min Scan# 761
Delta R.T. 0.116 min
Lab File: VL043216.D
Acq: 18 Nov 2025 17:06

Tgt Ion:	73	Resp:	6126
Ion	Ratio	Lower	Upper
73	100		
57	720.5	19.8	29.8#

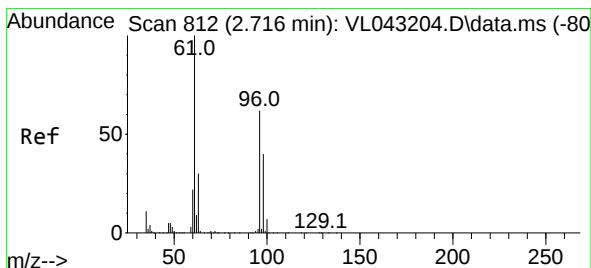
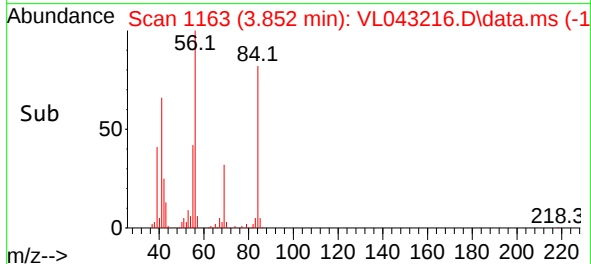
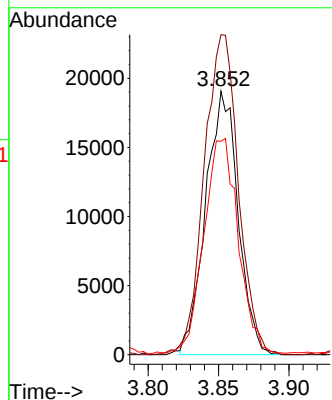
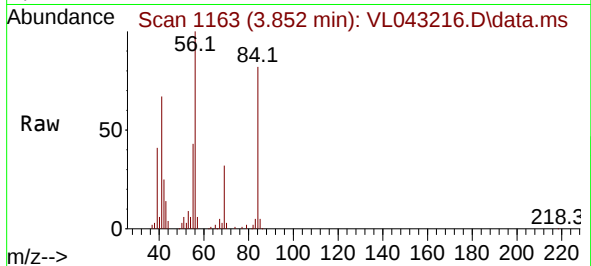




#30
Cyclohexane
Concen: 2.765 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. 0.006 min
Lab File: VL043216.D
Acq: 18 Nov 2025 17:06

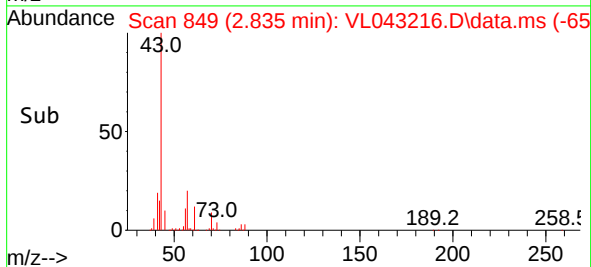
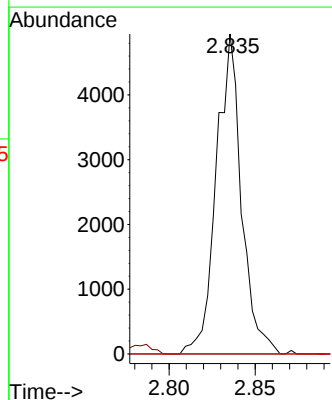
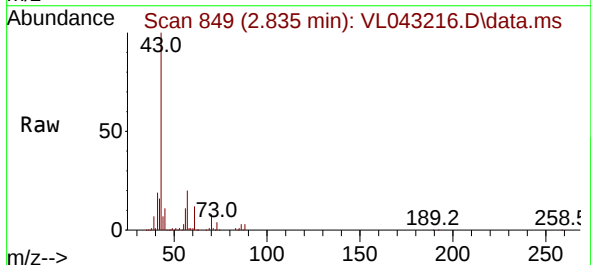
Instrument :
MSVOA_L
ClientSampleId :
IA2

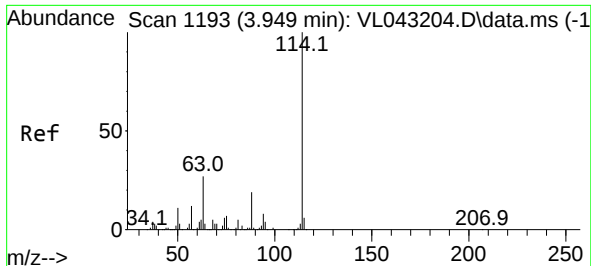
Tgt Ion: 84 Resp: 30559
Ion Ratio Lower Upper
84 100
56 128.4 104.7 157.1
41 85.5 69.0 103.6



#31
cis-1,2-Dichloroethene
Concen: 0.384 ppbv
RT: 2.835 min Scan# 849
Delta R.T. 0.119 min
Lab File: VL043216.D
Acq: 18 Nov 2025 17:06

Tgt Ion: 61 Resp: 5027
Ion Ratio Lower Upper
61 100
96 0.0 49.3 73.9#
98 0.0 32.1 48.1#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.955 min Scan# 1195

Delta R.T. 0.006 min

Lab File: VL043216.D

Acq: 18 Nov 2025 17:06

Instrument :

MSVOA_L

ClientSampleId :

IA2

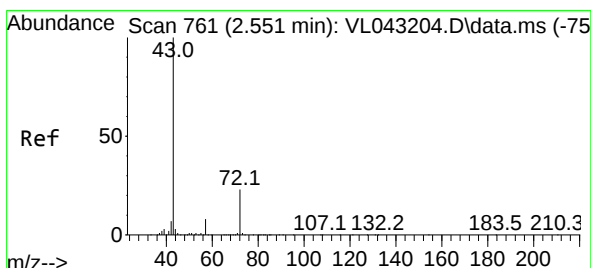
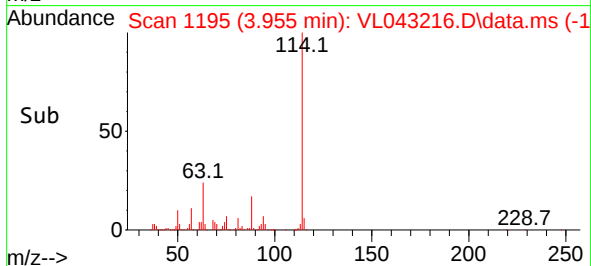
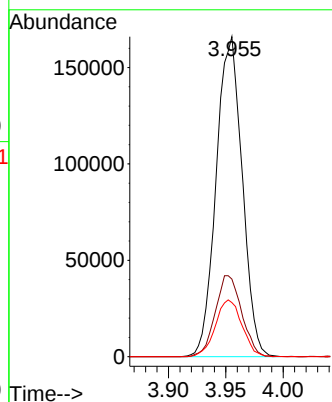
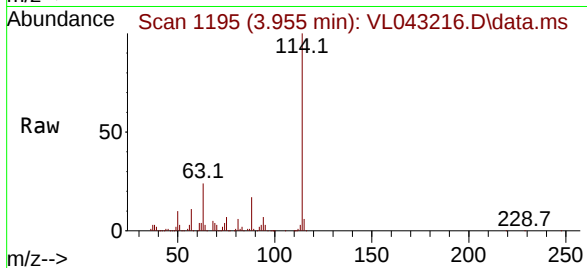
Tgt Ion:114 Resp: 262303

Ion Ratio Lower Upper

114 100

63 25.7 21.0 31.6

88 18.1 14.9 22.3



#34

2-Butanone

Concen: 31.082 ppbv

RT: 2.551 min Scan# 761

Delta R.T. -0.000 min

Lab File: VL043216.D

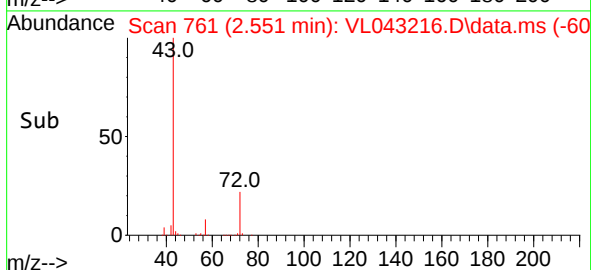
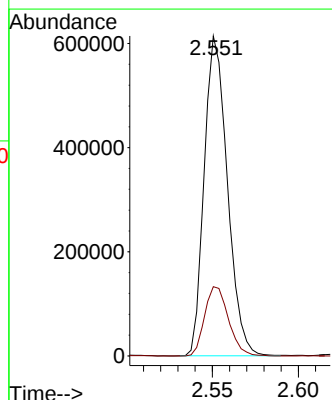
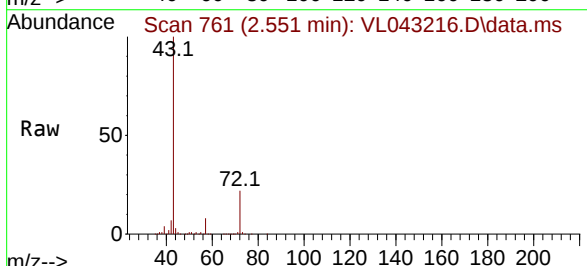
Acq: 18 Nov 2025 17:06

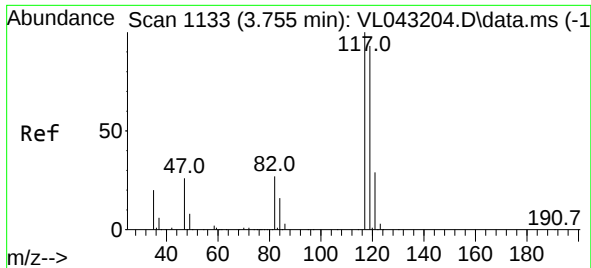
Tgt Ion: 43 Resp: 575504

Ion Ratio Lower Upper

43 100

72 22.3 18.1 27.1

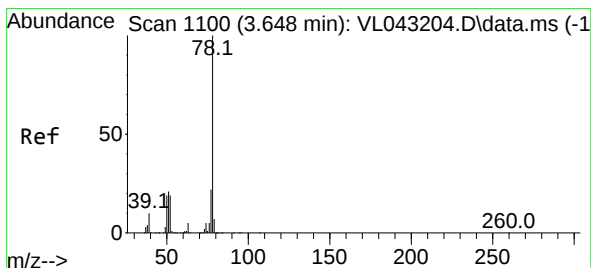
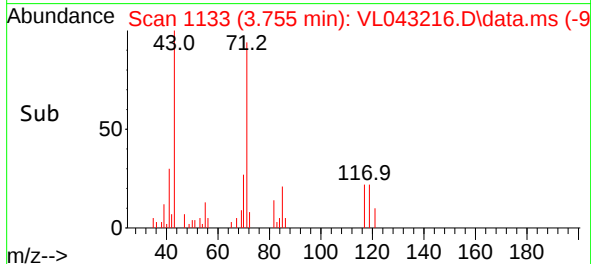
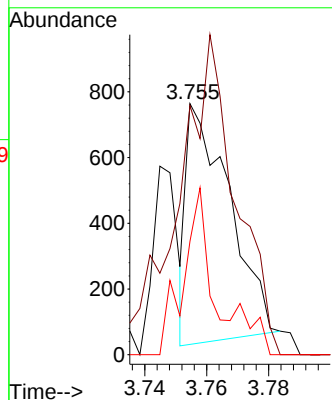
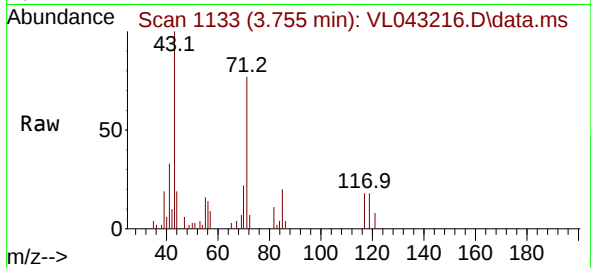




#35
Carbon Tetrachloride
Concen: 0.035 ppbv
RT: 3.755 min Scan# 1133
Delta R.T. -0.000 min
Lab File: VL043216.D
Acq: 18 Nov 2025 17:06

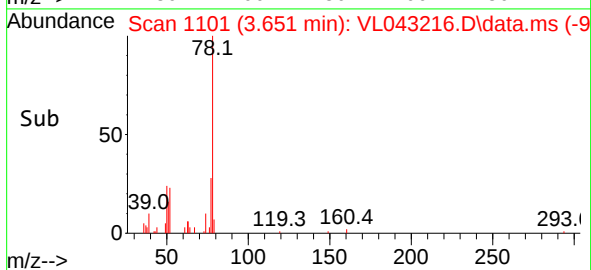
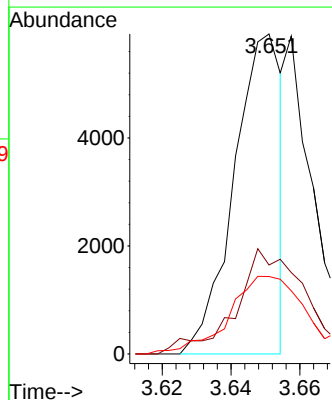
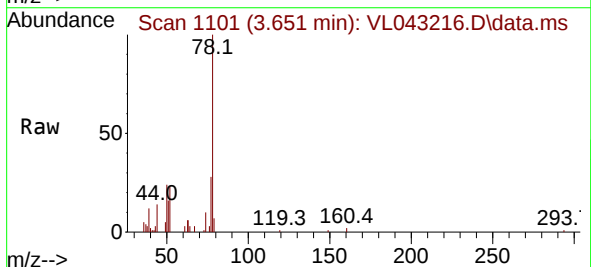
Instrument :
MSVOA_L
ClientSampleId :
IA2

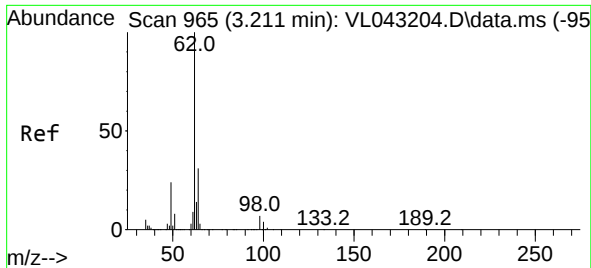
Tgt Ion:117 Resp: 700
Ion Ratio Lower Upper
117 100
119 109.5 74.6 112.0
121 49.9 23.2 34.8#



#36
Benzene
Concen: 0.225 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. 0.003 min
Lab File: VL043216.D
Acq: 18 Nov 2025 17:06

Tgt Ion: 78 Resp: 5661
Ion Ratio Lower Upper
78 100
77 23.0 17.5 26.3
50 21.1 15.5 23.3





#37

1,2-Dichloroethane

Concen: 0.087 ppbv

RT: 3.217 min Scan# 9

Delta R.T. 0.006 min

Lab File: VL043216.D

Acq: 18 Nov 2025 17:06

Instrument :

MSVOA_L

ClientSampleId :

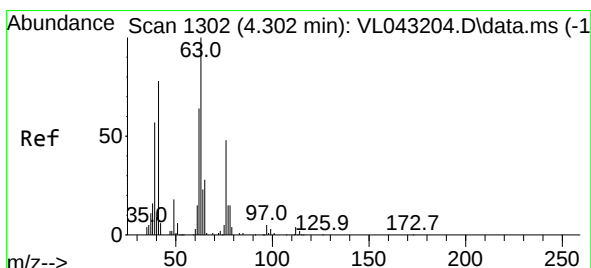
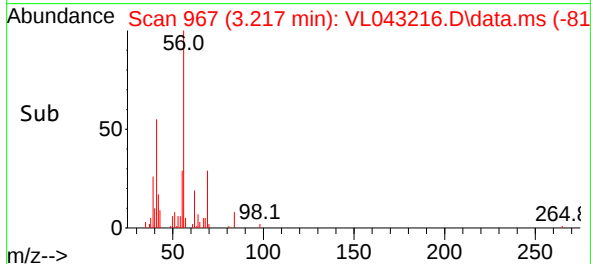
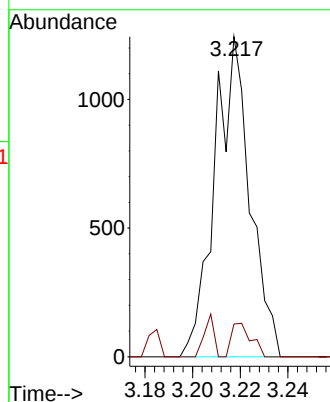
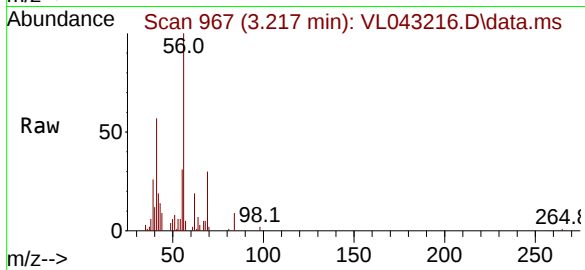
IA2

Tgt Ion: 62 Resp: 1280

Ion Ratio Lower Upper

62 100

98 5.9 5.5 8.3



#39

1,2-Dichloropropane

Concen: 7.314 ppbv

RT: 3.949 min Scan# 1193

Delta R.T. -0.353 min

Lab File: VL043216.D

Acq: 18 Nov 2025 17:06

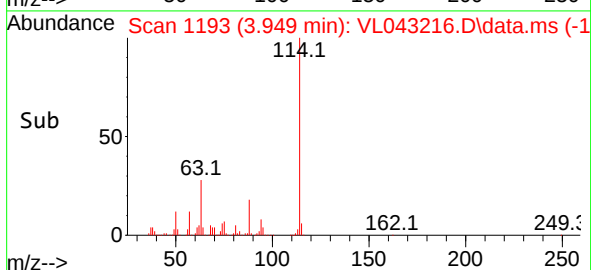
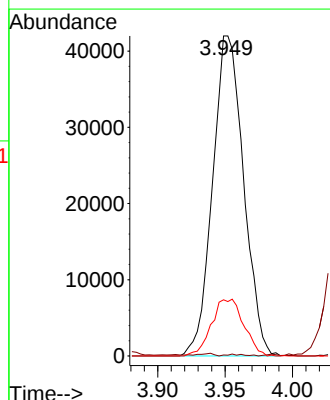
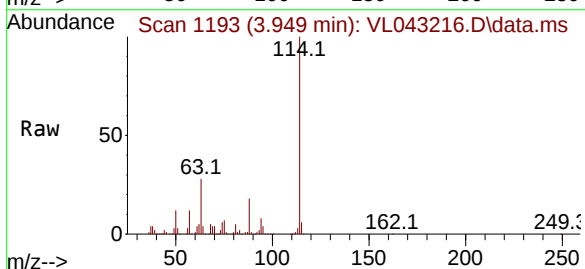
Tgt Ion: 63 Resp: 67245

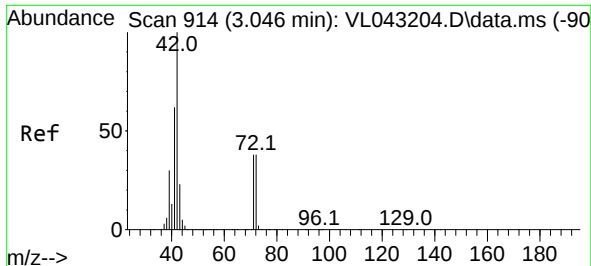
Ion Ratio Lower Upper

63 100

41 0.1 62.6 93.8#

62 17.6 51.0 76.6#

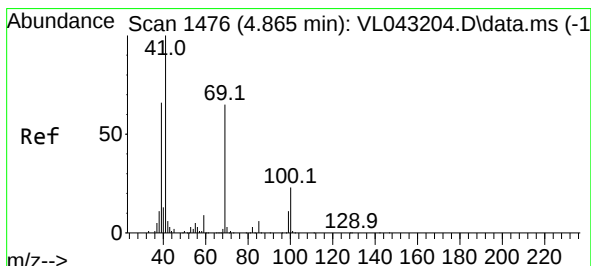
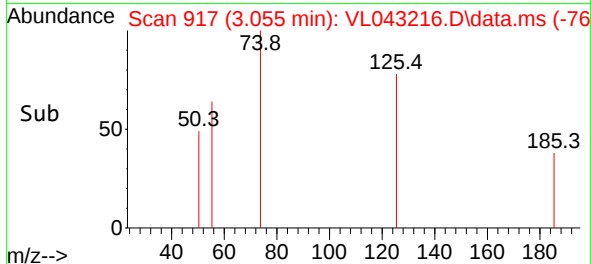
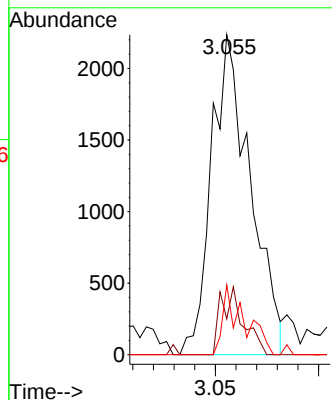
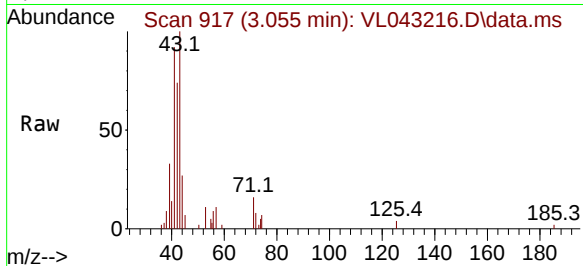




#41
Tetrahydrofuran
Concen: 0.286 ppbv
RT: 3.055 min Scan# 914
Delta R.T. 0.009 min
Lab File: VL043216.D
Acq: 18 Nov 2025 17:06

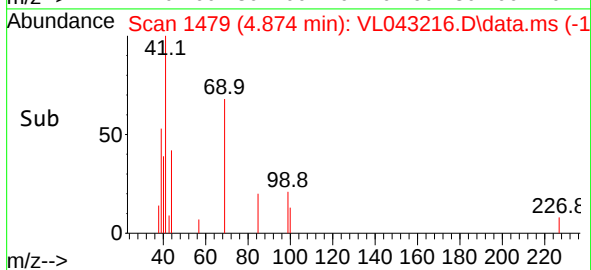
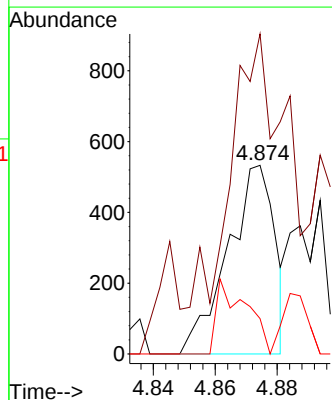
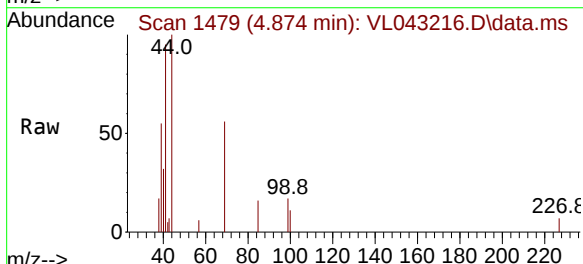
Instrument :
MSVOA_L
ClientSampleId :
IA2

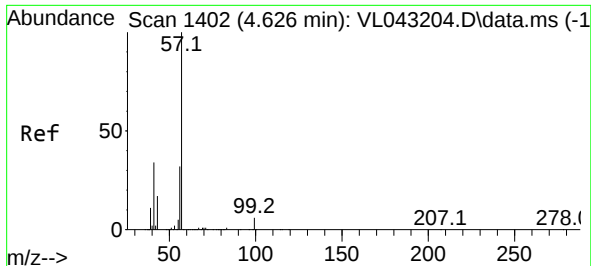
Tgt Ion: 42 Resp: 2926
Ion Ratio Lower Upper
42 100
72 0.0 30.6 46.0#
71 12.5 30.5 45.7#



#43
Methyl Methacrylate
Concen: 0.042 ppbv
RT: 4.874 min Scan# 1479
Delta R.T. 0.009 min
Lab File: VL043216.D
Acq: 18 Nov 2025 17:06

Tgt Ion: 69 Resp: 560
Ion Ratio Lower Upper
69 100
41 321.3 126.7 190.1#
100 42.3 28.6 43.0

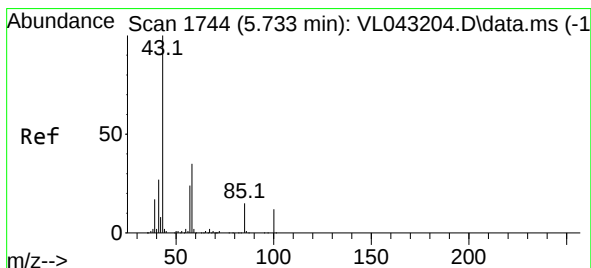
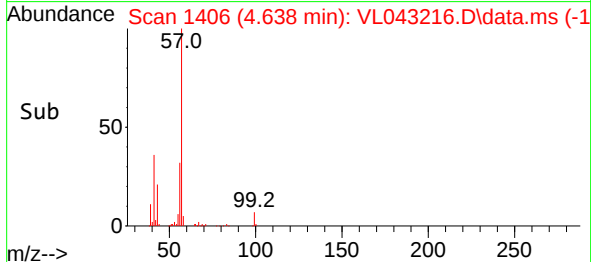
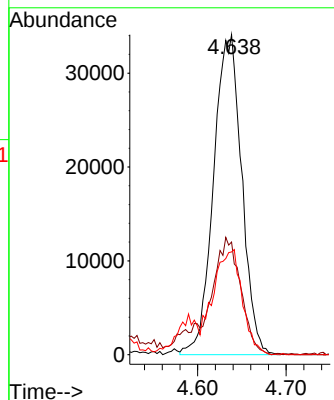
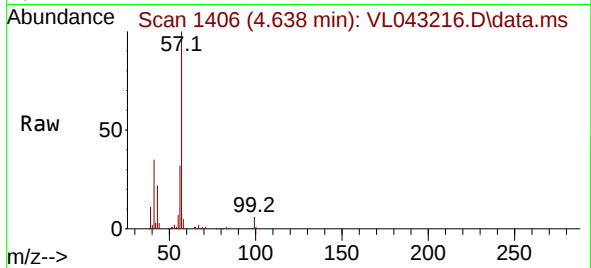




#44
2,2,4-Trimethylpentane
Concen: 1.744 ppbv
RT: 4.638 min Scan# 1406
Delta R.T. 0.013 min
Lab File: VL043216.D
Acq: 18 Nov 2025 17:06

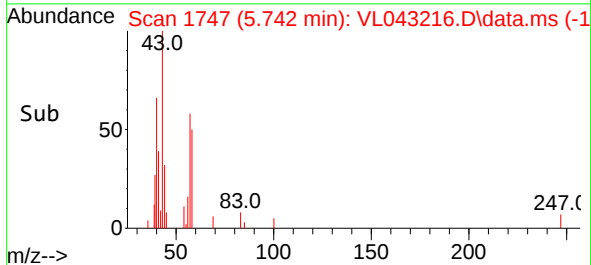
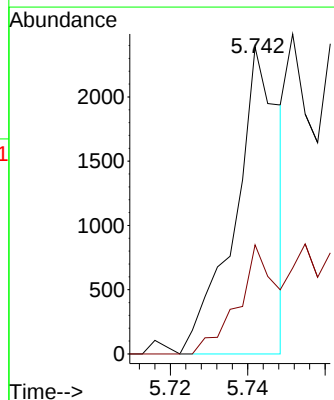
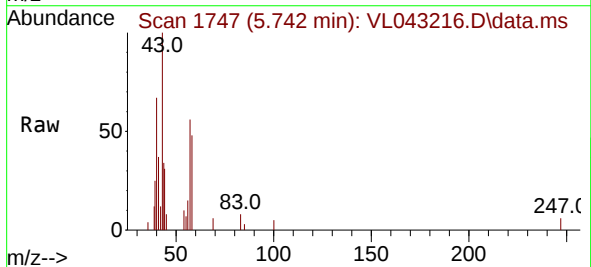
Instrument :
MSVOA_L
ClientSampleId :
IA2

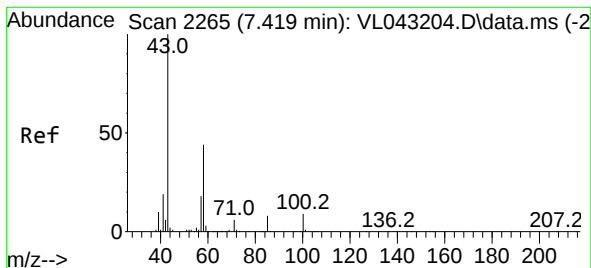
Tgt Ion: 57 Resp: 75256
Ion Ratio Lower Upper
57 100
41 43.2 28.0 42.0#
56 42.9 25.6 38.4#



#50
4-Methyl-2-Pentanone
Concen: 0.072 ppbv
RT: 5.742 min Scan# 1747
Delta R.T. 0.009 min
Lab File: VL043216.D
Acq: 18 Nov 2025 17:06

Tgt Ion: 43 Resp: 1883
Ion Ratio Lower Upper
43 100
58 0.0 28.4 42.6#





#51

2-Hexanone

Concen: 0.724 ppbv

RT: 7.415 min Scan# 21

Delta R.T. -0.004 min

Lab File: VL043216.D

Acq: 18 Nov 2025 17:06

Instrument :

MSVOA_L

ClientSampleId :

IA2

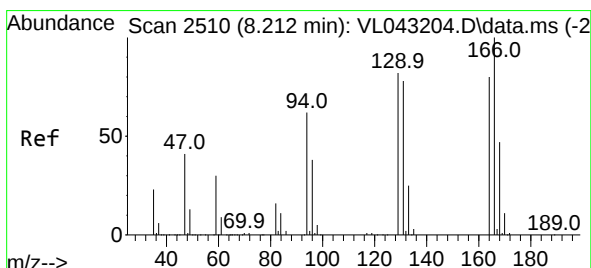
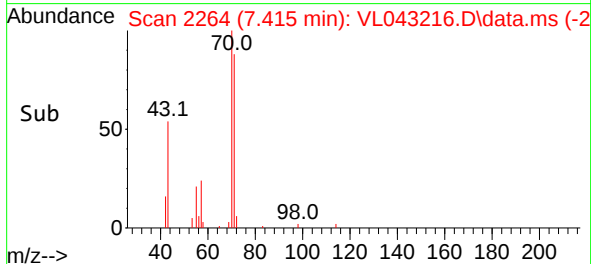
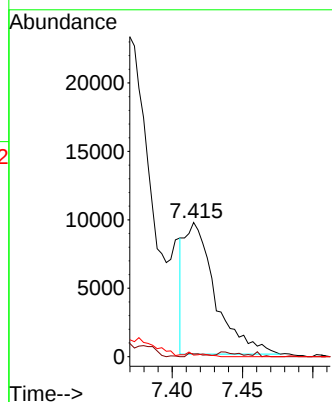
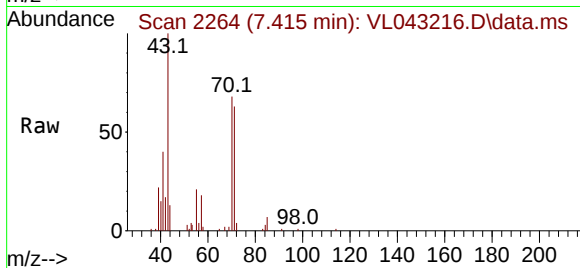
Tgt Ion: 43 Resp: 14672

Ion Ratio Lower Upper

43 100

58 4.3 38.4 57.6#

98 0.0 0.0 0.0



#52

Tetrachloroethene

Concen: 0.127 ppbv

RT: 8.215 min Scan# 2511

Delta R.T. 0.003 min

Lab File: VL043216.D

Acq: 18 Nov 2025 17:06

Tgt Ion: 164 Resp: 1185

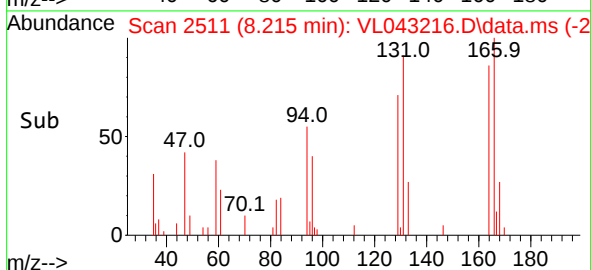
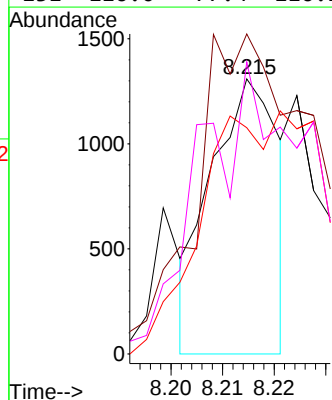
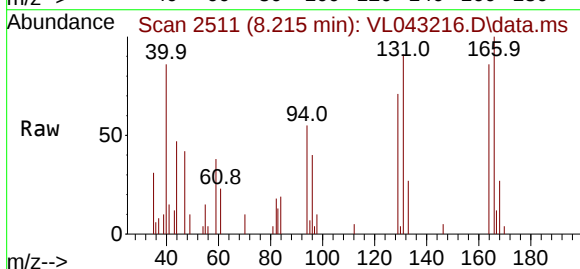
Ion Ratio Lower Upper

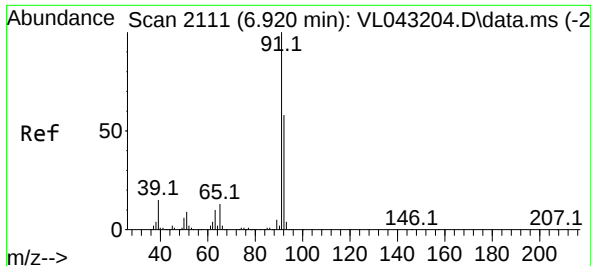
164 100

166 118.6 99.4 149.2

129 86.1 81.8 122.8

131 116.0 77.4 116.2

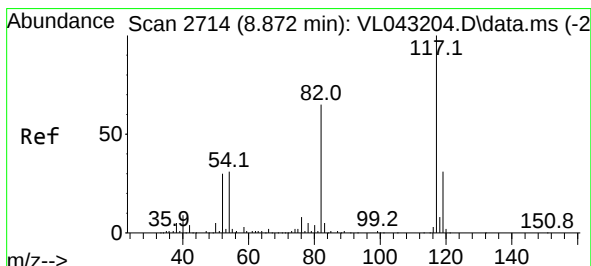
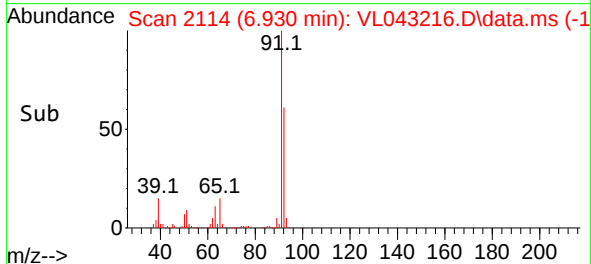
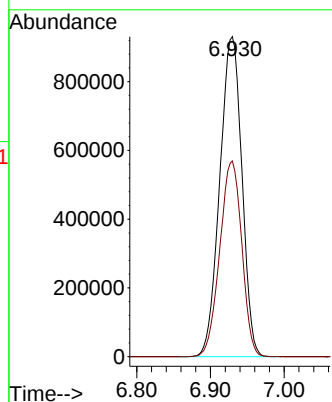
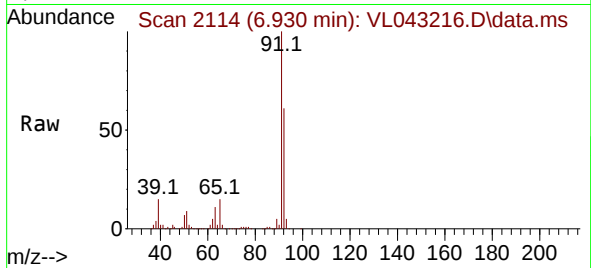




#53
Toluene
Concen: 65.288 ppbv
RT: 6.930 min Scan# 2111
Delta R.T. 0.009 min
Lab File: VL043216.D
Acq: 18 Nov 2025 17:06

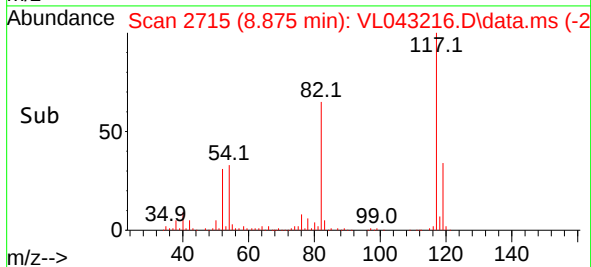
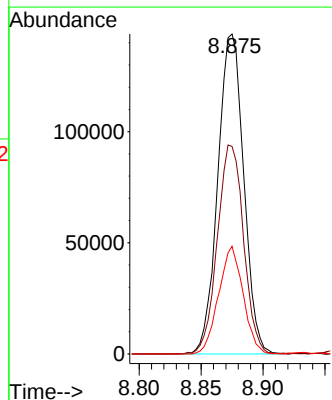
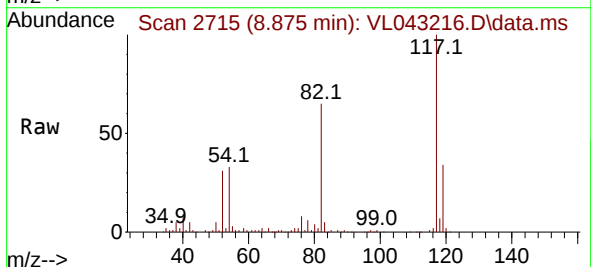
Instrument :
MSVOA_L
ClientSampleId :
IA2

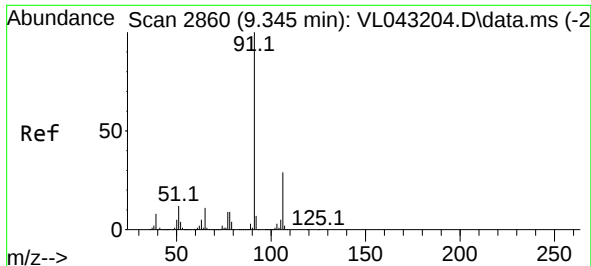
Tgt Ion: 91 Resp: 1941988
Ion Ratio Lower Upper
91 100
92 60.8 47.4 71.0



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. 0.003 min
Lab File: VL043216.D
Acq: 18 Nov 2025 17:06

Tgt Ion: 117 Resp: 209925
Ion Ratio Lower Upper
117 100
82 66.0 56.1 84.1
119 31.9 25.0 37.6

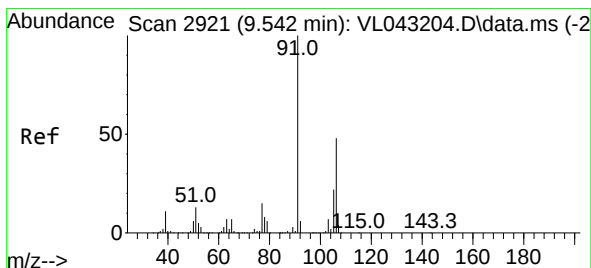
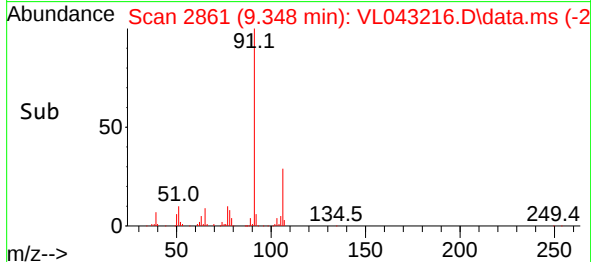
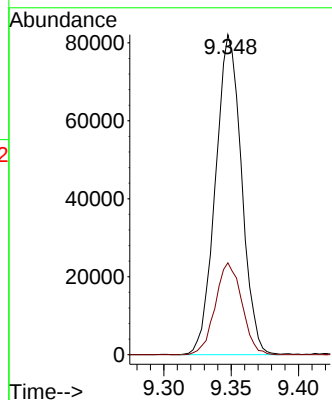
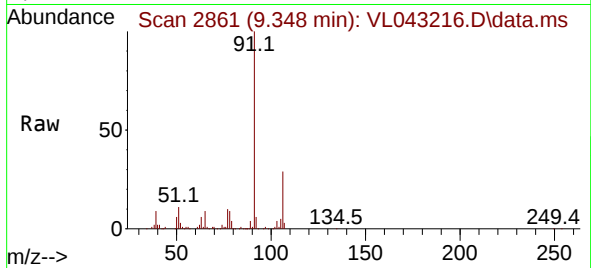




#58
Ethyl Benzene
Concen: 2.735 ppbv
RT: 9.348 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL043216.D
Acq: 18 Nov 2025 17:06

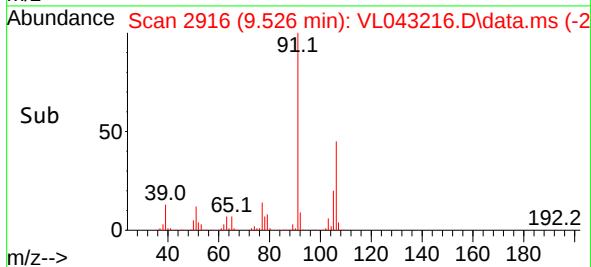
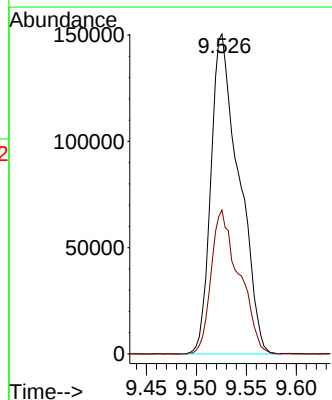
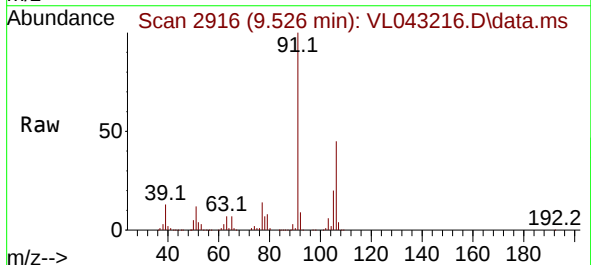
Instrument :
MSVOA_L
ClientSampleId :
IA2

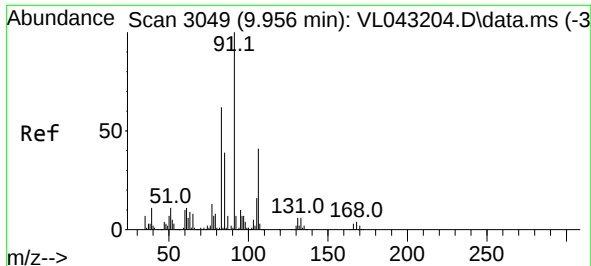
Tgt Ion: 91 Resp: 110526
Ion Ratio Lower Upper
91 100
106 28.7 22.8 34.2



#59
m/p-Xylene
Concen: 9.088 ppbv
RT: 9.526 min Scan# 2916
Delta R.T. -0.017 min
Lab File: VL043216.D
Acq: 18 Nov 2025 17:06

Tgt Ion: 91 Resp: 294403
Ion Ratio Lower Upper
91 100
106 44.9 36.1 54.1

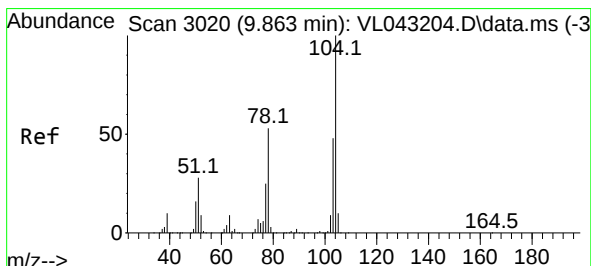
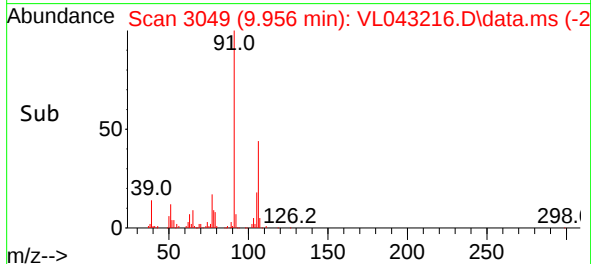
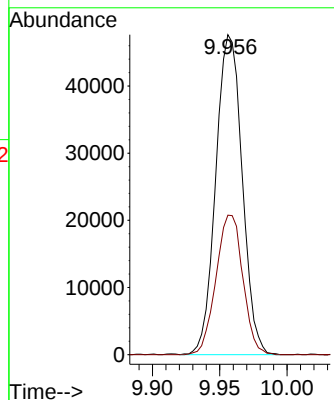
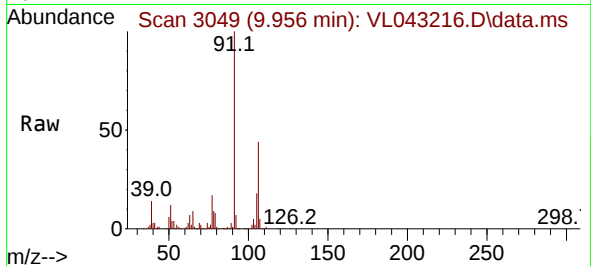




#60
o-Xylene
Concen: 2.007 ppbv
RT: 9.956 min Scan# 3049
Delta R.T. -0.000 min
Lab File: VL043216.D
Acq: 18 Nov 2025 17:06

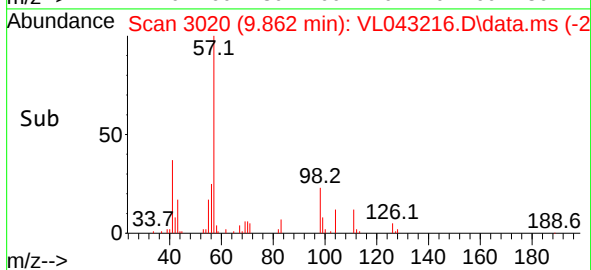
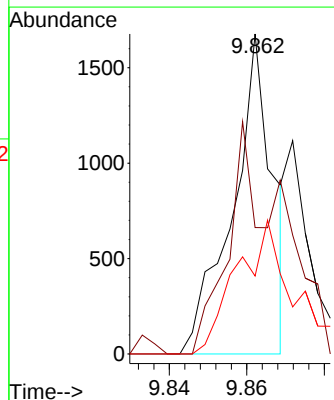
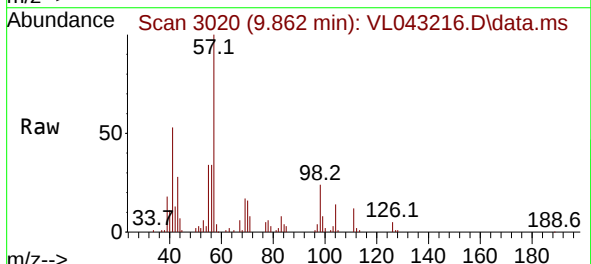
Instrument :
MSVOA_L
ClientSampleId :
IA2

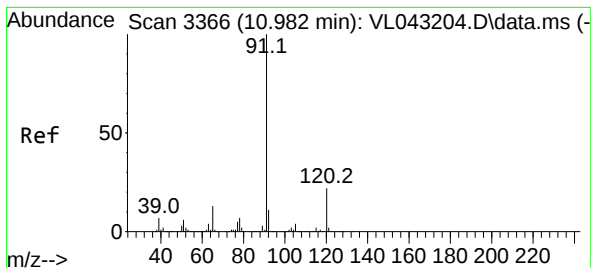
Tgt Ion: 91 Resp: 64946
Ion Ratio Lower Upper
91 100
106 44.3 20.9 62.8



#61
Styrene
Concen: 0.085 ppbv
RT: 9.862 min Scan# 3020
Delta R.T. -0.000 min
Lab File: VL043216.D
Acq: 18 Nov 2025 17:06

Tgt Ion: 104 Resp: 1197
Ion Ratio Lower Upper
104 100
78 107.9 42.1 63.1#
103 58.0 37.2 55.8#





#64

n-propylbenzene

Concen: 0.056 ppbv

RT: 10.988 min Scan# 31

Delta R.T. 0.006 min

Lab File: VL043216.D

Acq: 18 Nov 2025 17:06

Instrument :

MSVOA_L

ClientSampleId :

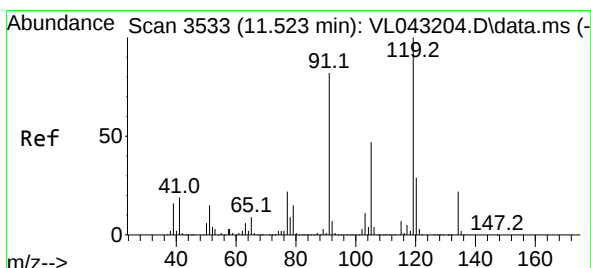
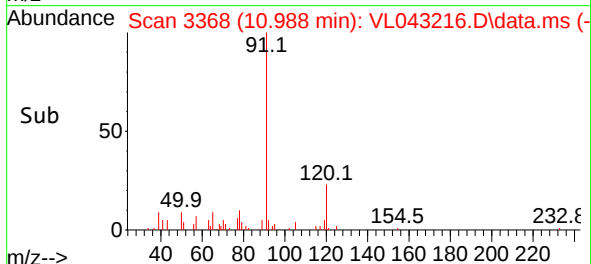
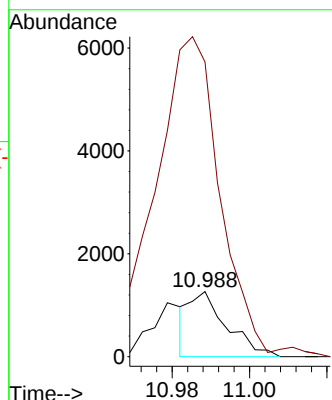
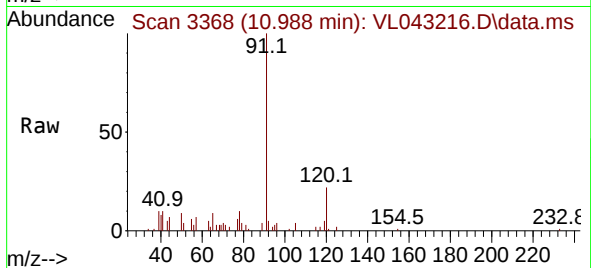
IA2

Tgt Ion:120 Resp: 840

Ion Ratio Lower Upper

120 100

91 877.1 377.1 565.7#



#65

tert-Butylbenzene

Concen: 0.037 ppbv

RT: 11.875 min Scan# 3642

Delta R.T. 0.352 min

Lab File: VL043216.D

Acq: 18 Nov 2025 17:06

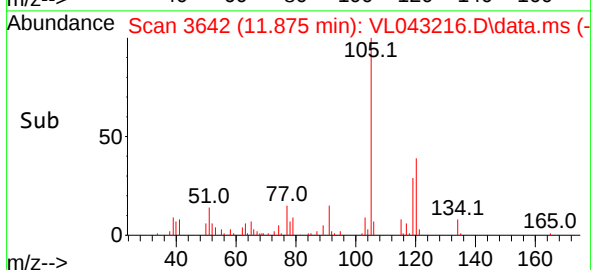
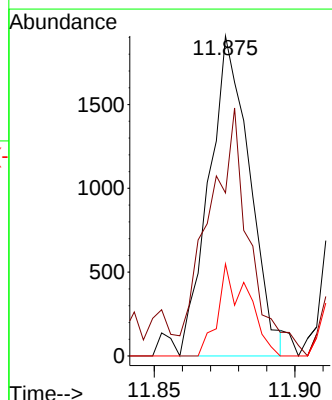
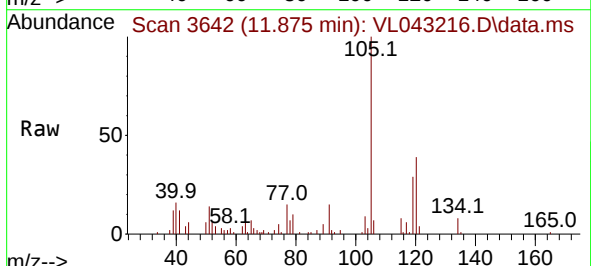
Tgt Ion:119 Resp: 1913

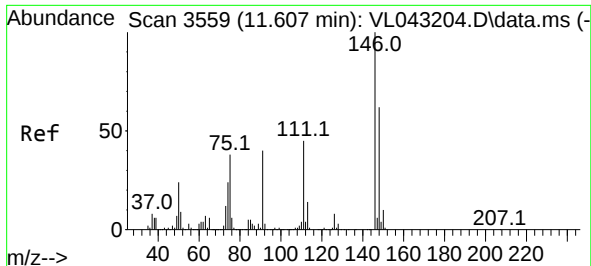
Ion Ratio Lower Upper

119 100

91 92.6 65.3 97.9

134 21.4 17.0 25.4

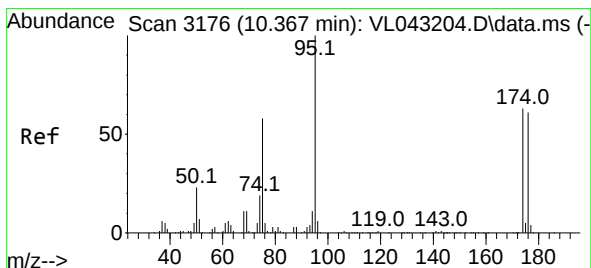
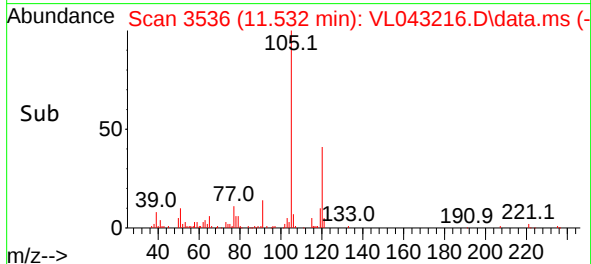
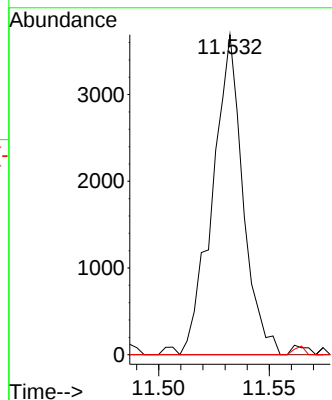
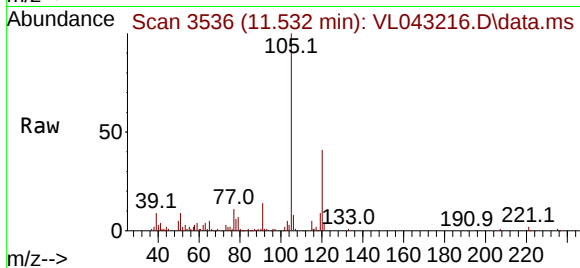




#66
Benzyl Chloride
Concen: 0.673 ppbv
RT: 11.532 min Scan# 3153
Delta R.T. -0.075 min
Lab File: VL043216.D
Acq: 18 Nov 2025 17:06

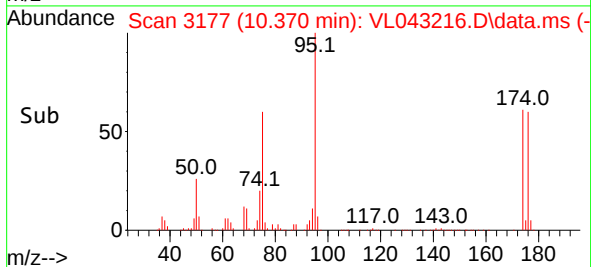
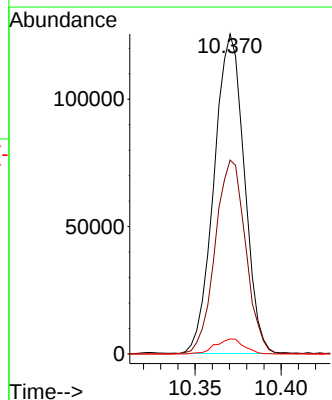
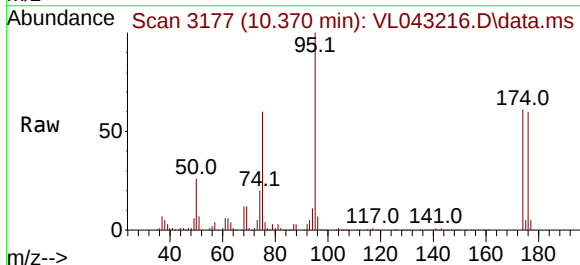
Instrument :
MSVOA_L
ClientSampleId :
IA2

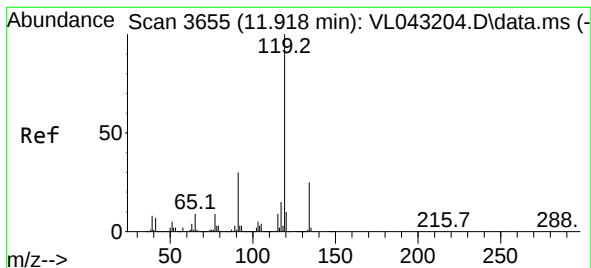
Tgt Ion: 91 Resp: 3533
Ion Ratio Lower Upper
91 100
126 0.8 14.4 21.6#
128 0.0 4.6 6.8#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.961 ppbv
RT: 10.370 min Scan# 3177
Delta R.T. 0.003 min
Lab File: VL043216.D
Acq: 18 Nov 2025 17:06

Tgt Ion: 95 Resp: 153270
Ion Ratio Lower Upper
95 100
174 61.4 50.2 75.2
175 4.5 4.1 6.1





#69

p-Isopropyltoluene

Concen: 0.034 ppbv

RT: 11.921 min Scan# 3

Delta R.T. 0.003 min

Lab File: VL043216.D

Acq: 18 Nov 2025 17:06

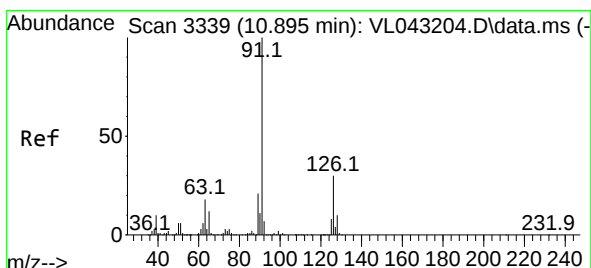
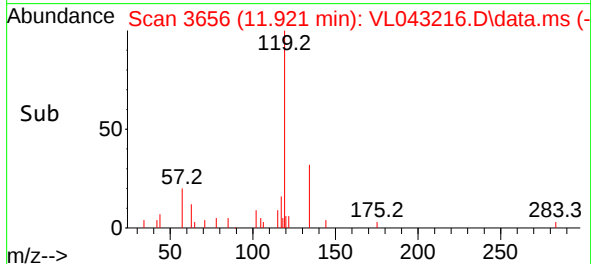
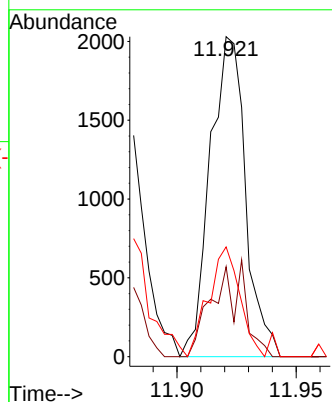
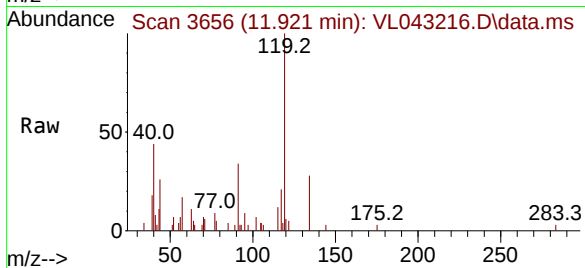
Instrument :

MSVOA_L

ClientSampleId :

IA2

Tgt Ion:	119	Resp:	2092
Ion	Ratio	Lower	Upper
119	100		
134	26.6	20.2	30.2
91	30.4	23.8	35.8



#71

2-Chlorotoluene

Concen: 0.258 ppbv

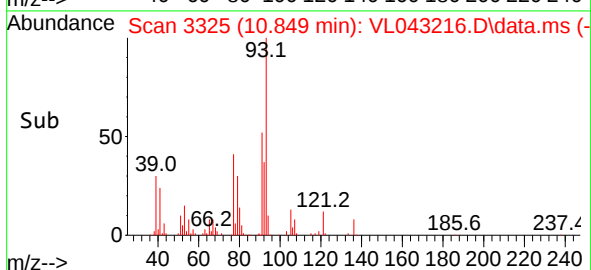
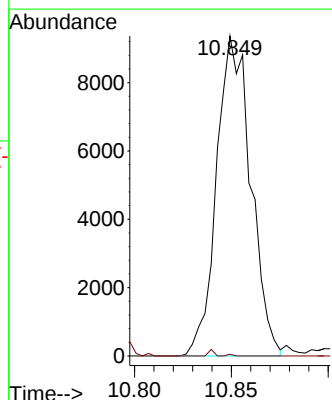
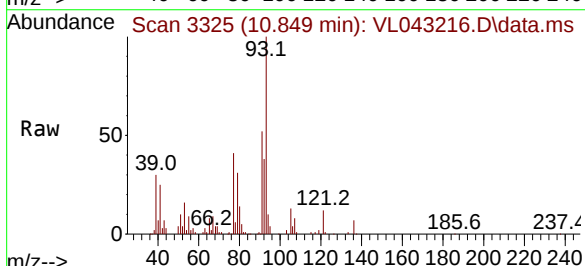
RT: 10.849 min Scan# 3325

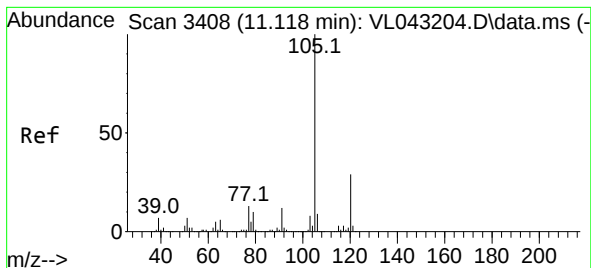
Delta R.T. -0.046 min

Lab File: VL043216.D

Acq: 18 Nov 2025 17:06

Tgt Ion:	91	Resp:	11488
Ion	Ratio	Lower	Upper
91	100		
126	4.2	11.7	46.7#





#72

4-Ethyltoluene

Concen: 0.169 ppbv

RT: 11.124 min Scan# 3408

Delta R.T. 0.006 min

Lab File: VL043216.D

Acq: 18 Nov 2025 17:06

Instrument :

MSVOA_L

ClientSampleId :

IA2

Tgt Ion:105 Resp: 6660

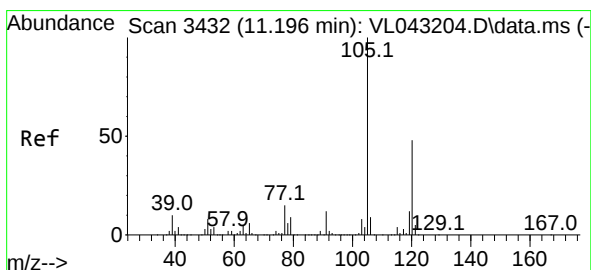
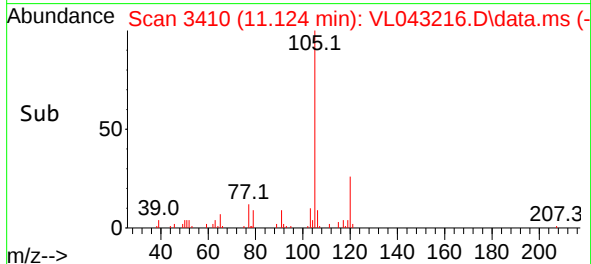
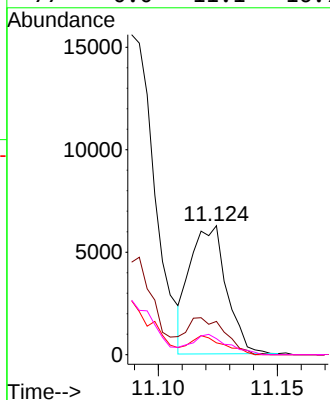
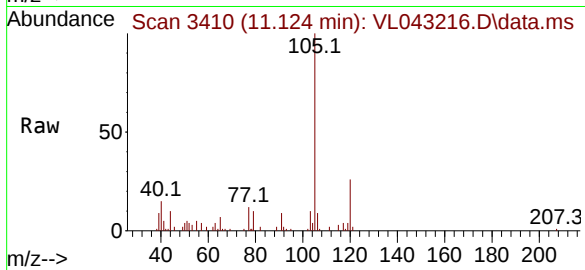
Ion Ratio Lower Upper

105 100

120 0.0 23.8 35.8#

91 0.0 10.3 15.5#

77 0.0 11.1 16.7#



#73

1,3,5-Trimethylbenzene

Concen: 0.215 ppbv

RT: 11.199 min Scan# 3433

Delta R.T. 0.003 min

Lab File: VL043216.D

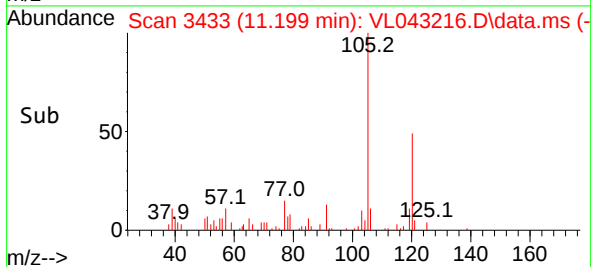
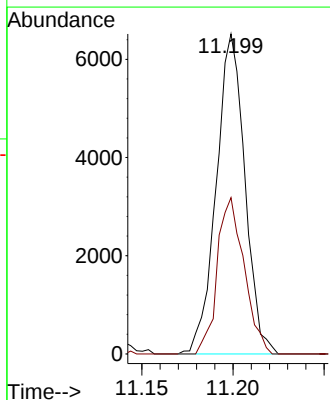
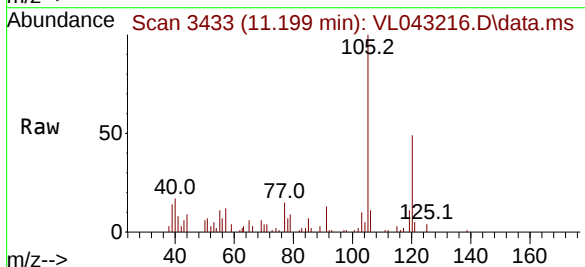
Acq: 18 Nov 2025 17:06

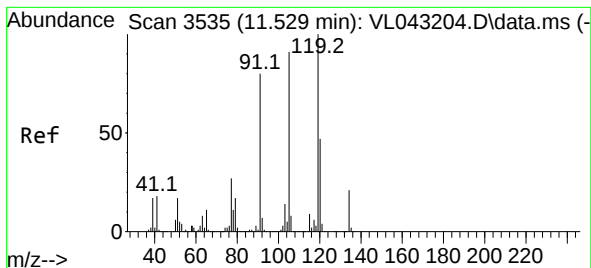
Tgt Ion:105 Resp: 7120

Ion Ratio Lower Upper

105 100

120 48.9 38.6 57.8





#74

1,2,4-Trimethylbenzene

Concen: 0.711 ppbv

RT: 11.532 min Scan# 3536

Delta R.T. 0.003 min

Lab File: VL043216.D

Acq: 18 Nov 2025 17:06

Instrument :

MSVOA_1

ClientSampleId :

IA2

Tgt Ion:105 Resp: 25655

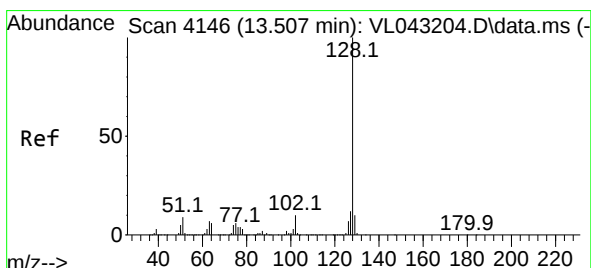
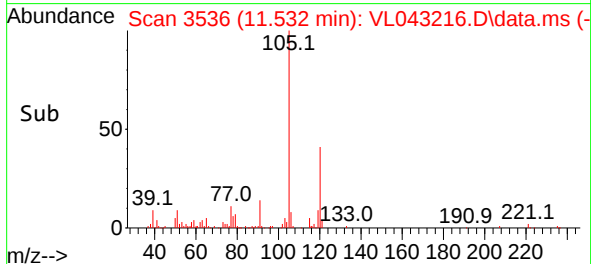
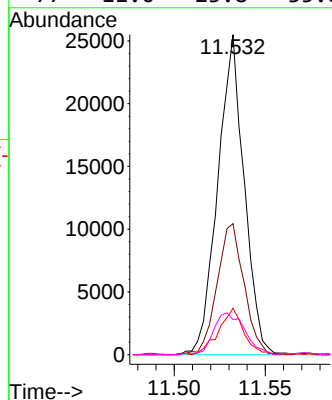
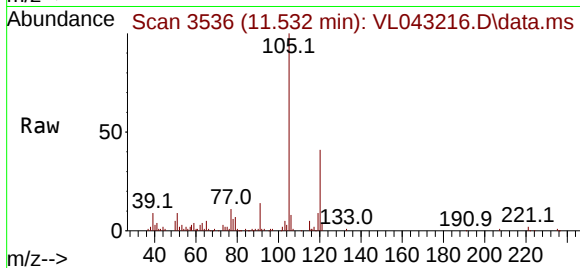
Ion Ratio Lower Upper

105 100

120 40.7 41.7 62.5#

91 14.5 70.0 105.0#

77 11.0 23.8 35.8#



#79

Naphthalene

Concen: 0.100 ppbv

RT: 13.510 min Scan# 4147

Delta R.T. 0.003 min

Lab File: VL043216.D

Acq: 18 Nov 2025 17:06

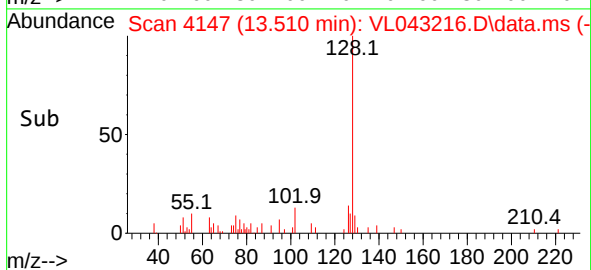
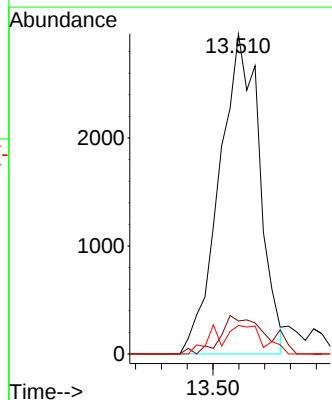
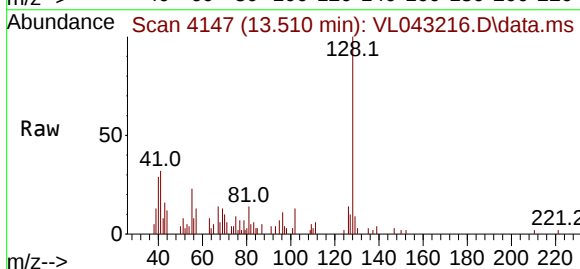
Tgt Ion:128 Resp: 3197

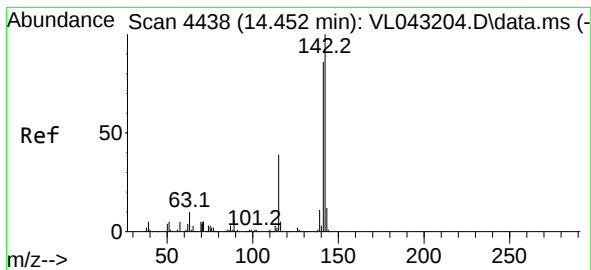
Ion Ratio Lower Upper

128 100

127 10.3 9.9 14.9

129 8.9 8.4 12.6





#80

Naphthalene, 2-methyl-

Concen: 0.112 ppbv

RT: 14.461 min Scan# 44

Delta R.T. 0.009 min

Lab File: VL043216.D

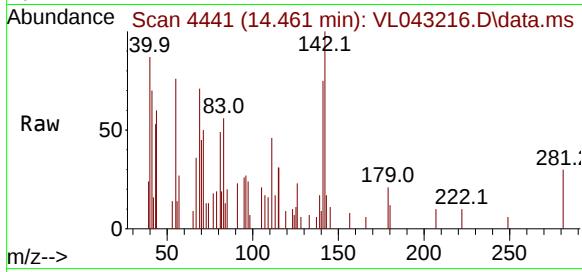
Acq: 18 Nov 2025 17:06

Instrument :

MSVOA_L

ClientSampleId :

IA2



Tgt Ion:	142	Resp:	940
Ion	Ratio	Lower	Upper
142	100		
141	111.7	67.1	100.7#
115	90.0	31.9	47.9#

