

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
 Data File : VL043215.D
 Acq On : 18 Nov 2025 16:31
 Operator : SY/MD
 Sample : Q3651-03DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP

Quant Time: Nov 19 01:36:31 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	2.790	49	112956	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	275778	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	220714	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.371	95	161385	9.975	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.800%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	5900	0.370	ppbv	91
3) Chlorodifluoromethane	1.473	51	7409	0.473	ppbv #	83
4) Chloromethane	1.531	50	3670	0.616	ppbv	97
5) Vinyl Chloride	1.577	62	336	0.052	ppbv #	85
6) Bromomethane	1.667	94	119	0.038	ppbv #	30
7) Chloroethane	1.706	64	78	0.031	ppbv #	41
9) Propene	1.486	41	756866	113.759	ppbv #	2
10) Heptane	4.978	43	5226	0.264	ppbv	87
11) Trichlorofluoromethane	1.874	101	3207	0.208	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.136	101	949	0.079	ppbv	93
13) Ethanol	1.722	45	70202	30.007	ppbv	100
15) Acetone	1.842	43	3739760	238.302	ppbv #	53
16) 1,3-Butadiene	1.619	39	625514	89.405	ppbv #	14
17) tert-Butyl alcohol	1.891	59	45075	2.188	ppbv #	71
18) 1,1-Dichloroethene	2.033	96	2720	0.485	ppbv #	68
19) Isopropyl Alcohol	1.891	45	1161668	130.997	ppbv #	36
20) Methylene Chloride	2.069	84	3416256	800.842	ppbv #	55
21) Allyl Chloride	2.065	41	222948	21.116	ppbv #	21
22) trans-1,2-Dichloroethene	2.340	96	1314	0.205	ppbv	80
23) Vinyl Acetate	2.852	43	6807949	359.339	ppbv #	78
25) Ethyl Acetate	2.852	43	6807949	201.138	ppbv #	53
26) Hexane	2.826	57	4701	0.317	ppbv #	1
28) Methyl tert-Butyl Ether	2.852	73	648098	88.975	ppbv #	50
30) Cyclohexane	3.855	84	601	0.048	ppbv #	1
31) cis-1,2-Dichloroethene	2.852	61	1865076	126.447	ppbv #	26
34) 2-Butanone	2.852	43	6807949	349.720	ppbv #	53
35) Carbon Tetrachloride	3.765	117	822	0.039	ppbv #	84
36) Benzene	3.654	78	4765	0.180	ppbv #	83
37) 1,2-Dichloroethane	3.221	62	9714	0.629	ppbv	99
39) 1,2-Dichloropropane	3.955	63	70795	7.324	ppbv #	23
41) Tetrahydrofuran	3.056	42	26404	2.456	ppbv #	41
44) 2,2,4-Trimethylpentane	4.632	57	2659	0.059	ppbv #	44
51) 2-Hexanone	7.247	43	13657690	641.362	ppbv #	30
53) Toluene	6.946	91	5490786	175.576	ppbv	91
58) Ethyl Benzene	9.351	91	59564	1.402	ppbv	94
59) m/p-Xylene	9.542	91	62243	1.828	ppbv #	31
60) o-Xylene	9.956	91	60853	1.788	ppbv	98
61) Styrene	9.862	104	7612	0.511	ppbv #	83
64) n-propylbenzene	10.982	120	829	0.053	ppbv	95
65) tert-Butylbenzene	11.532	119	2876	0.053	ppbv #	36
66) Benzyl Chloride	11.532	91	3896	0.706	ppbv #	72
69) p-Isopropyltoluene	11.921	119	18765	0.292	ppbv	99
71) 2-Chlorotoluene	10.853	91	127476	2.724	ppbv #	46

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

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Quant Time: Nov 19 01:36:31 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

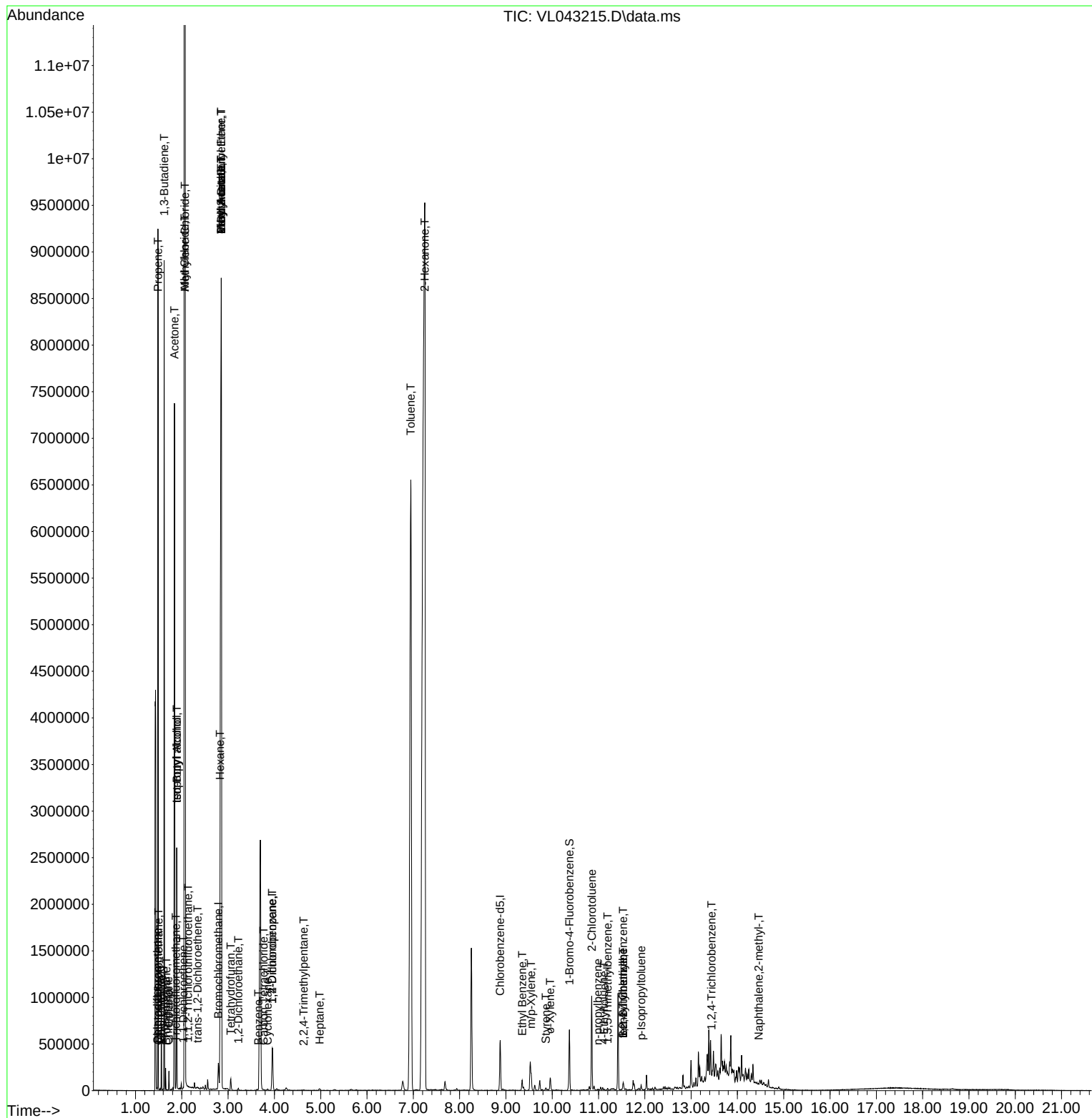
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
72) 4-Ethyltoluene	11.121	105	4597	0.111	ppbv #	55
73) 1,3,5-Trimethylbenzene	11.196	105	4991	0.144	ppbv	98
74) 1,2,4-Trimethylbenzene	11.532	105	21383	0.563	ppbv #	49
80) Naphthalene,2-methyl-	14.462	142	1037	0.117	ppbv #	79
81) 1,2,4-Trichlorobenzene	13.439	180	477	0.032	ppbv #	81

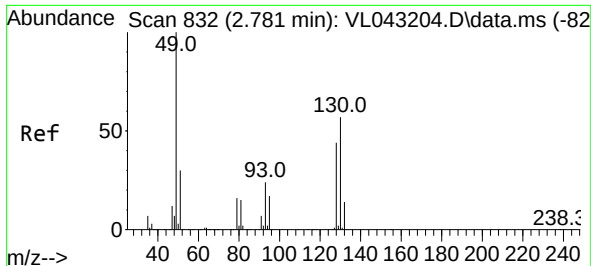
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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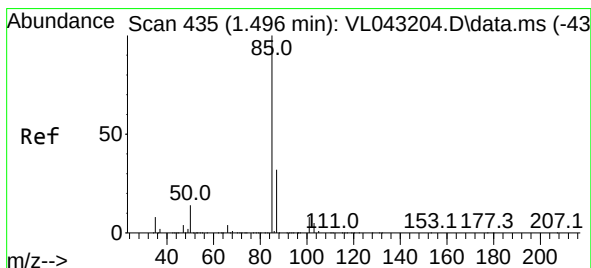
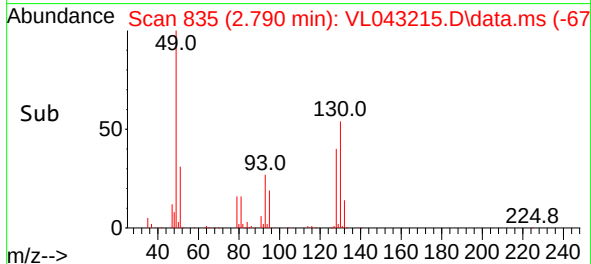
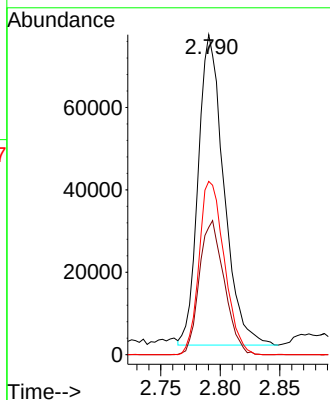
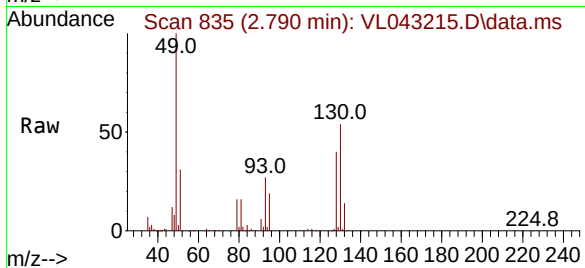




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 81
Delta R.T. 0.009 min
Lab File: VL043215.D
Acq: 18 Nov 2025 16:31

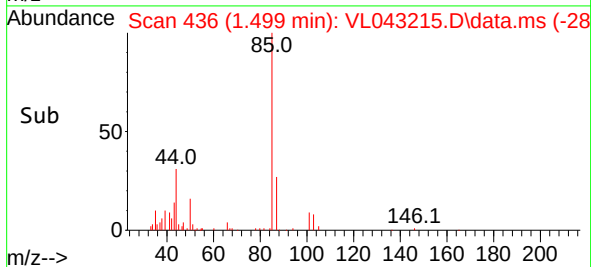
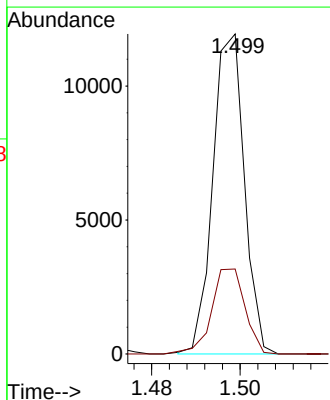
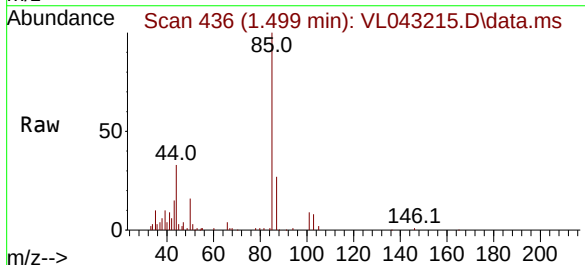
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

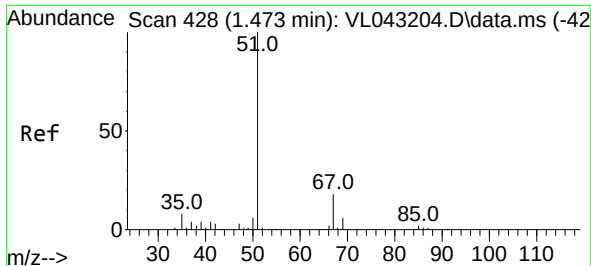
Tgt Ion: 49 Resp: 112956
Ion Ratio Lower Upper
49 100
128 42.0 23.0 69.0
130 55.0 29.9 89.7



#2
Dichlorodifluoromethane
Concen: 0.370 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043215.D
Acq: 18 Nov 2025 16:31

Tgt Ion: 85 Resp: 5900
Ion Ratio Lower Upper
85 100
87 26.6 25.4 38.2

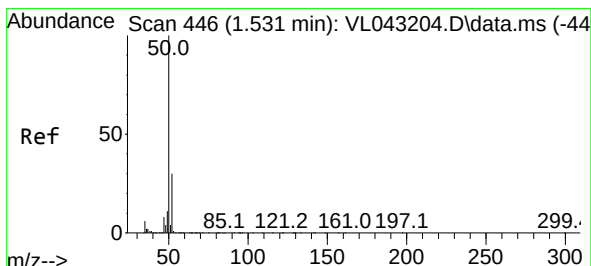
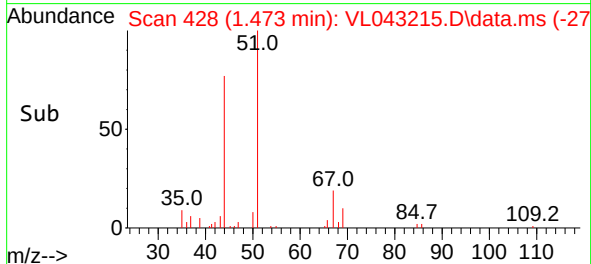
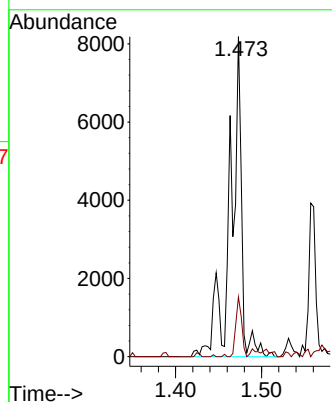
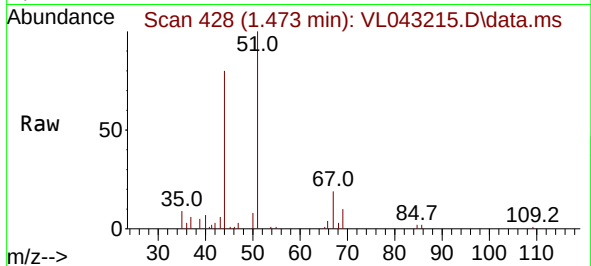




#3
Chlorodifluoromethane
Concen: 0.473 ppbv
RT: 1.473 min Scan# 428
Delta R.T. -0.000 min
Lab File: VL043215.D
Acq: 18 Nov 2025 16:31

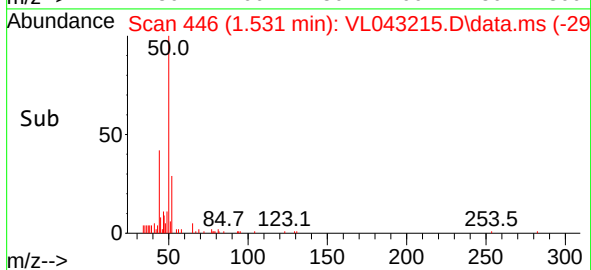
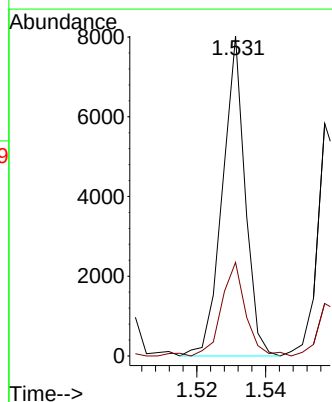
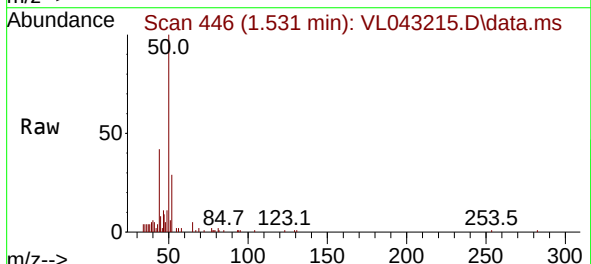
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

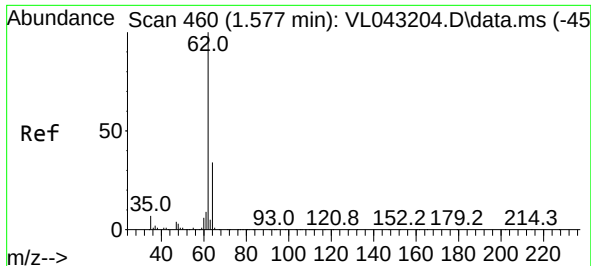
Tgt Ion: 51 Resp: 7409
Ion Ratio Lower Upper
51 100
67 10.8 14.9 22.3#



#4
Chloromethane
Concen: 0.616 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL043215.D
Acq: 18 Nov 2025 16:31

Tgt Ion: 50 Resp: 3670
Ion Ratio Lower Upper
50 100
52 28.4 24.1 36.1

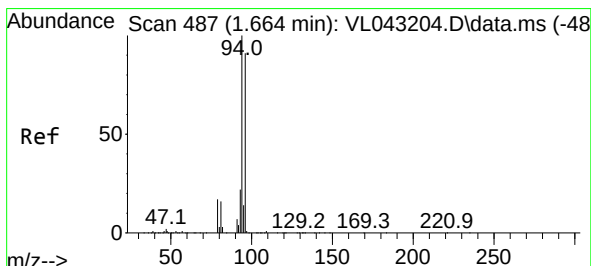
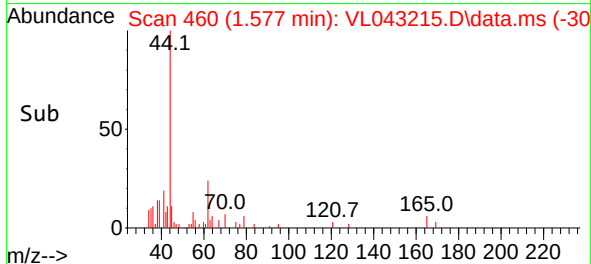
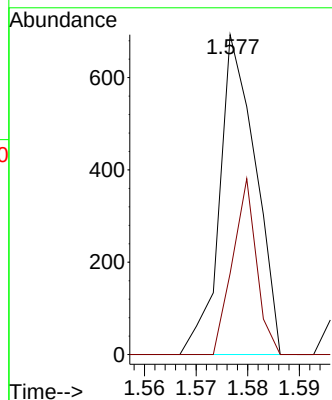
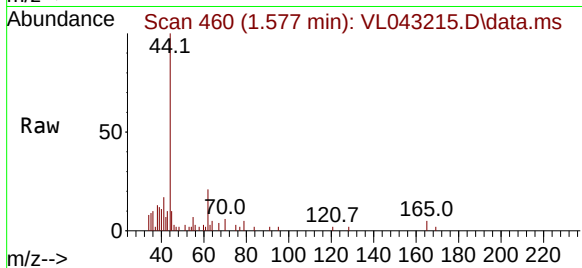




#5
 Vinyl Chloride
 Concen: 0.052 ppbv
 RT: 1.577 min Scan# 460
 Delta R.T. -0.000 min
 Lab File: VL043215.D
 Acq: 18 Nov 2025 16:31

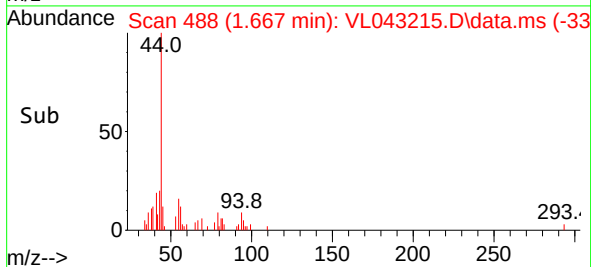
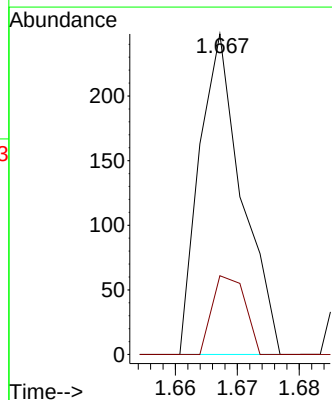
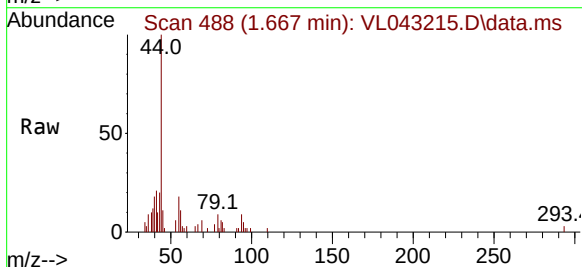
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP

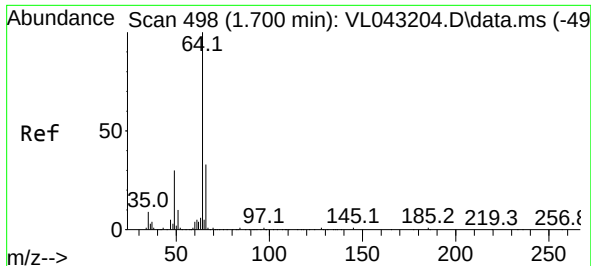
Tgt Ion: 62 Resp: 336
 Ion Ratio Lower Upper
 62 100
 64 25.4 27.3 40.9#



#6
 Bromomethane
 Concen: 0.038 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. 0.003 min
 Lab File: VL043215.D
 Acq: 18 Nov 2025 16:31

Tgt Ion: 94 Resp: 119
 Ion Ratio Lower Upper
 94 100
 96 24.6 72.9 109.3#

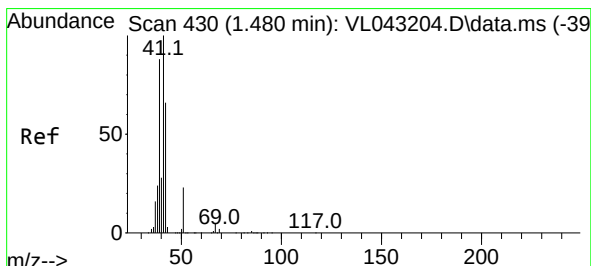
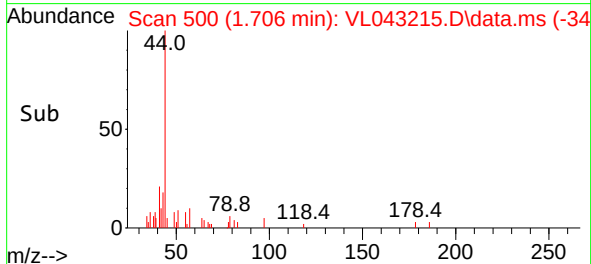
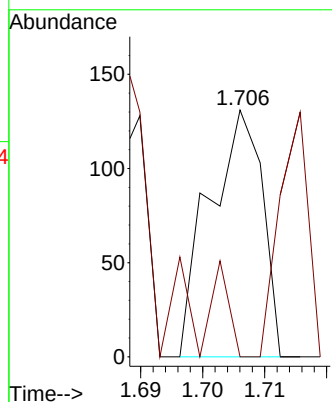
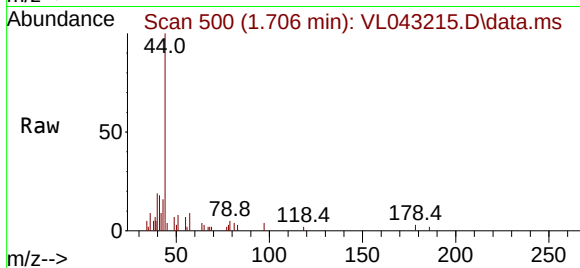




#7
Chloroethane
Concen: 0.031 ppbv
RT: 1.706 min Scan# 50
Delta R.T. 0.006 min
Lab File: VL043215.D
Acq: 18 Nov 2025 16:31

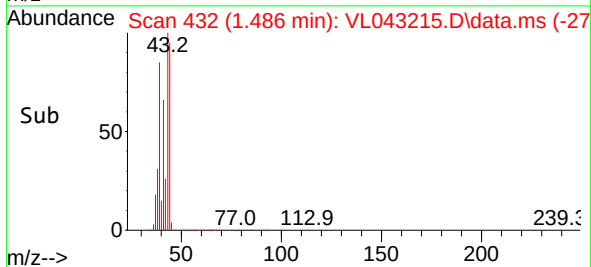
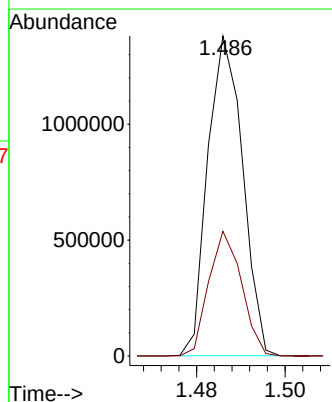
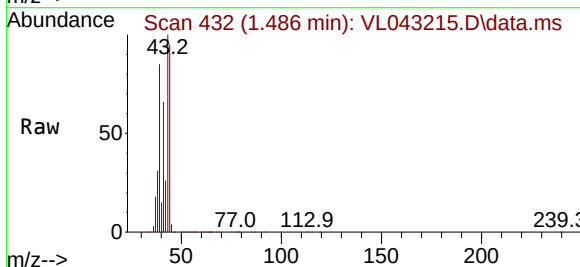
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

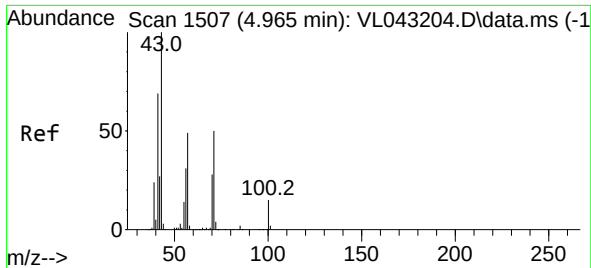
Tgt Ion: 64 Resp: 78
Ion Ratio Lower Upper
64 100
66 0.0 26.8 40.2#



#9
Propene
Concen: 113.759 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.006 min
Lab File: VL043215.D
Acq: 18 Nov 2025 16:31

Tgt Ion: 41 Resp: 756866
Ion Ratio Lower Upper
41 100
42 36.9 3.7 5.5#





#10

Heptane

Concen: 0.264 ppbv

RT: 4.978 min Scan# 1

Delta R.T. 0.013 min

Lab File: VL043215.D

Acq: 18 Nov 2025 16:31

Instrument :

MSVOA_L

ClientSampleId :

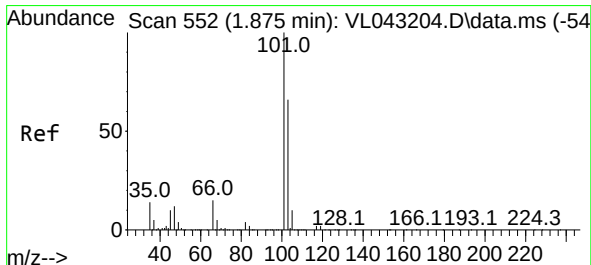
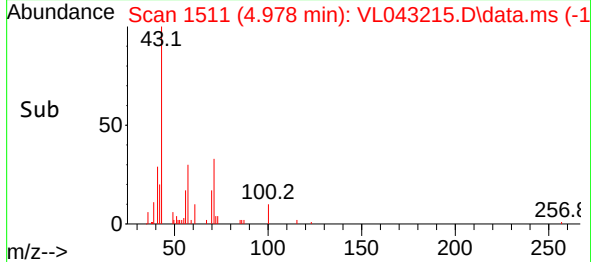
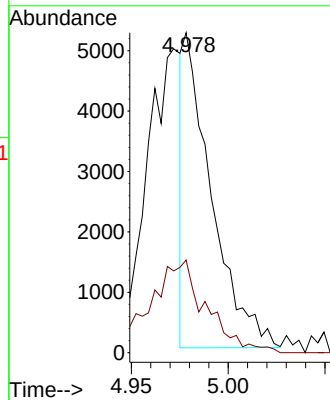
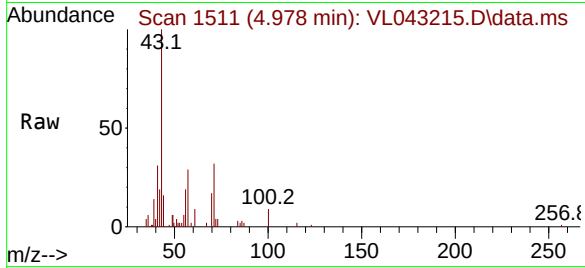
IA1DUP

Tgt Ion: 43 Resp: 5226

Ion Ratio Lower Upper

43 100

57 58.4 39.7 59.5



#11

Trichlorofluoromethane

Concen: 0.208 ppbv

RT: 1.874 min Scan# 552

Delta R.T. -0.000 min

Lab File: VL043215.D

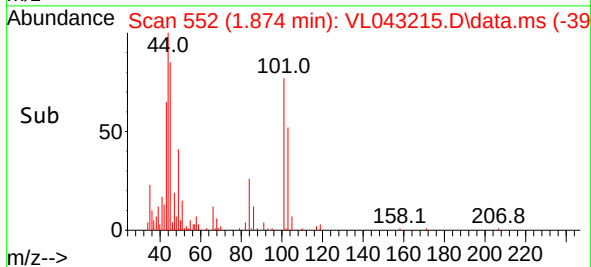
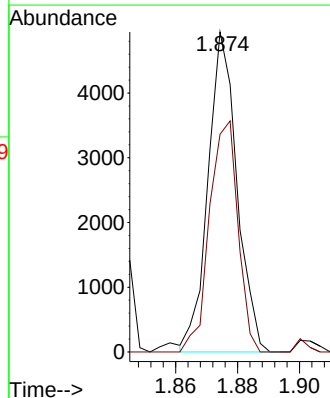
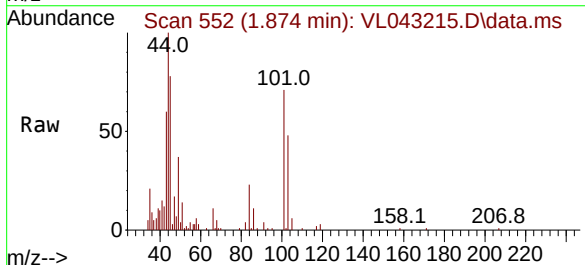
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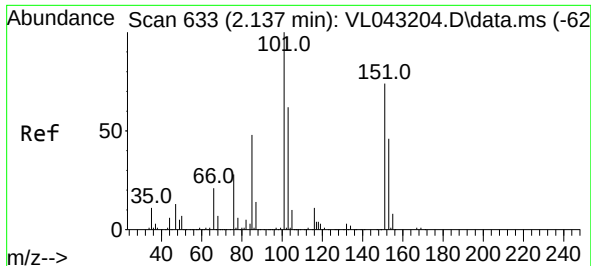
Tgt Ion: 101 Resp: 3207

Ion Ratio Lower Upper

101 100

103 68.0 52.6 79.0

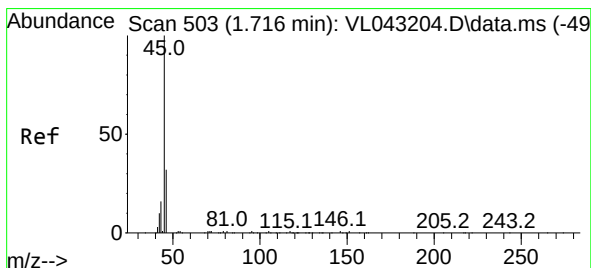
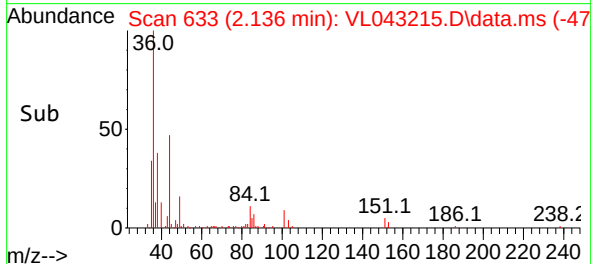
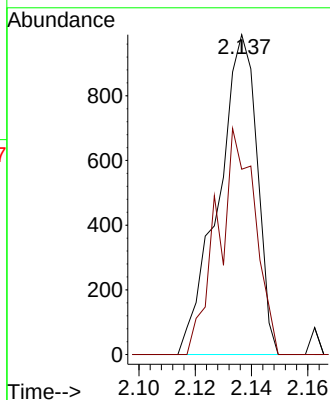
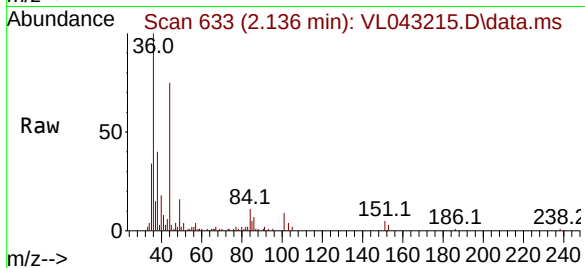




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.079 ppbv
RT: 2.136 min Scan# 61
Delta R.T. -0.000 min
Lab File: VL043215.D
Acq: 18 Nov 2025 16:31

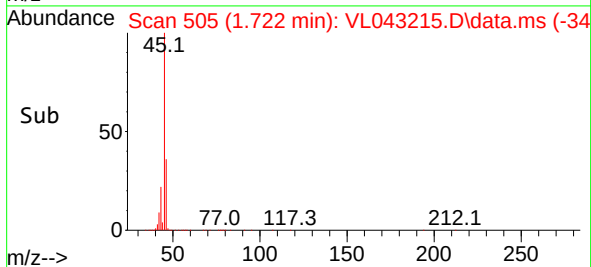
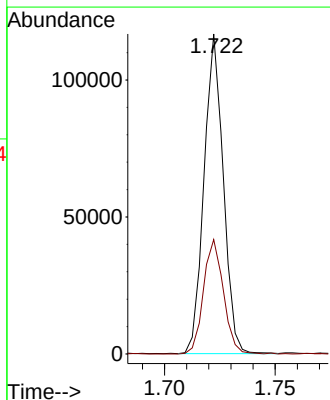
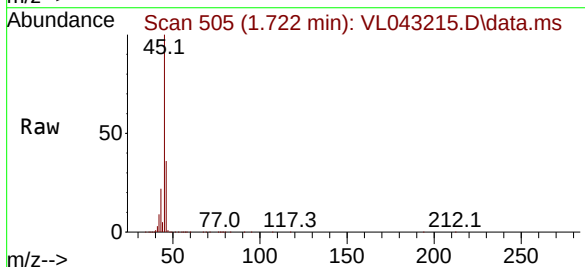
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

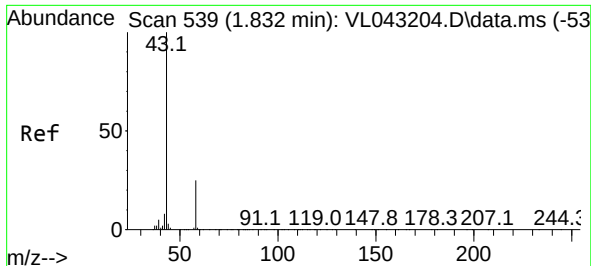
Tgt Ion:101 Resp: 949
Ion Ratio Lower Upper
101 100
151 68.0 59.2 88.8



#13
Ethanol
Concen: 30.007 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.006 min
Lab File: VL043215.D
Acq: 18 Nov 2025 16:31

Tgt Ion: 45 Resp: 70202
Ion Ratio Lower Upper
45 100
46 37.4 15.0 59.8

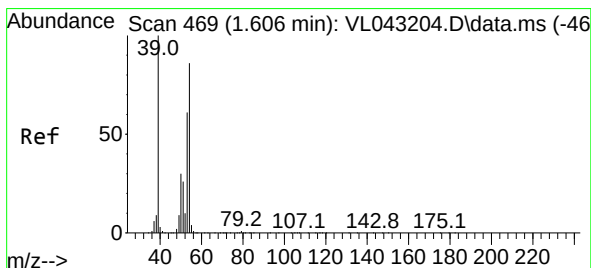
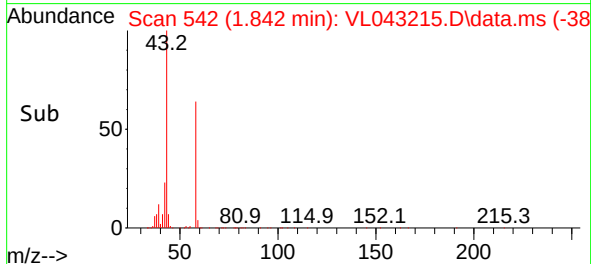
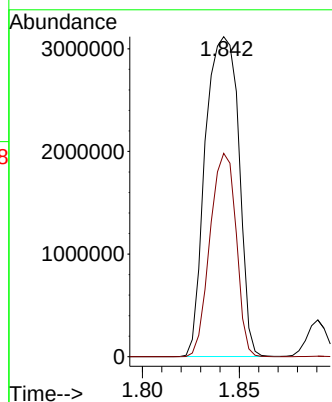
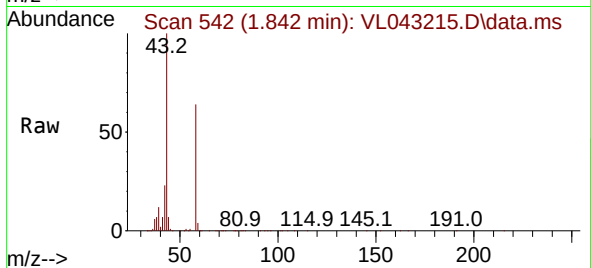




#15
Acetone
Concen: 238.302 ppbv
RT: 1.842 min Scan# 54
Delta R.T. 0.010 min
Lab File: VL043215.D
Acq: 18 Nov 2025 16:31

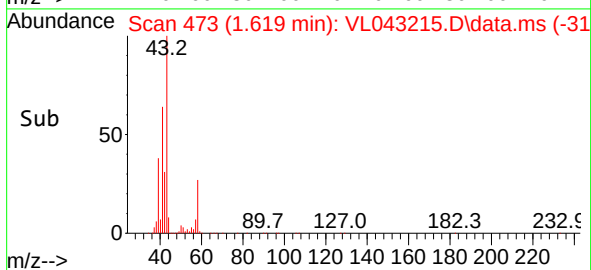
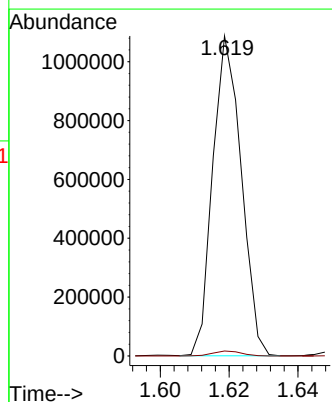
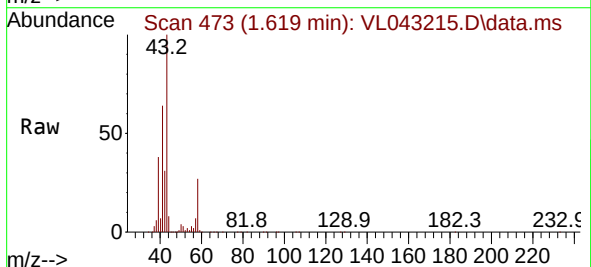
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

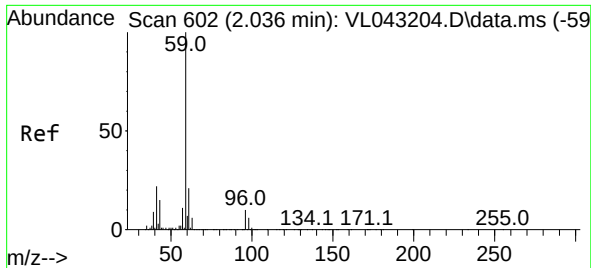
Tgt Ion: 43 Resp: 3739760
Ion Ratio Lower Upper
43 100
58 49.6 20.7 31.1#



#16
1,3-Butadiene
Concen: 89.405 ppbv
RT: 1.619 min Scan# 473
Delta R.T. 0.013 min
Lab File: VL043215.D
Acq: 18 Nov 2025 16:31

Tgt Ion: 39 Resp: 625514
Ion Ratio Lower Upper
39 100
54 1.7 59.4 89.2#





#17

tert-Butyl alcohol

Concen: 2.188 ppbv

RT: 1.891 min Scan# 51

Delta R.T. -0.146 min

Lab File: VL043215.D

Acq: 18 Nov 2025 16:31

Instrument :

MSVOA_L

ClientSampleId :

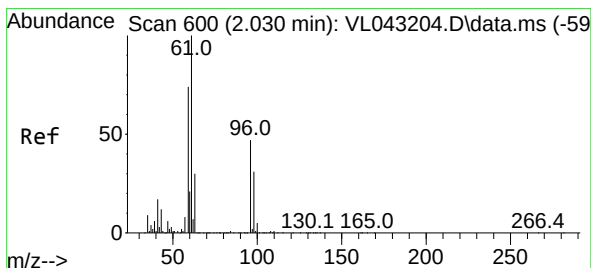
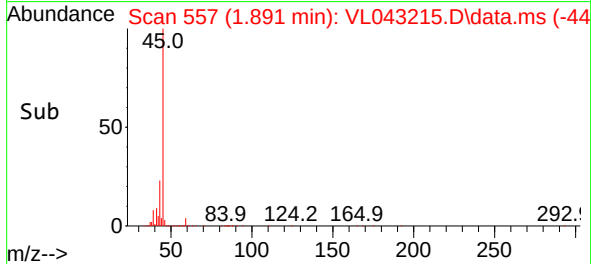
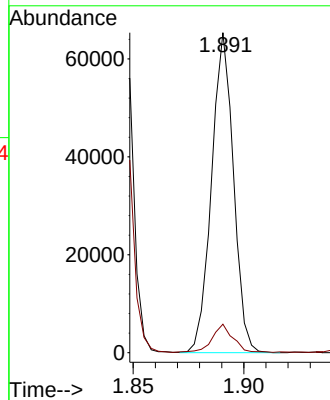
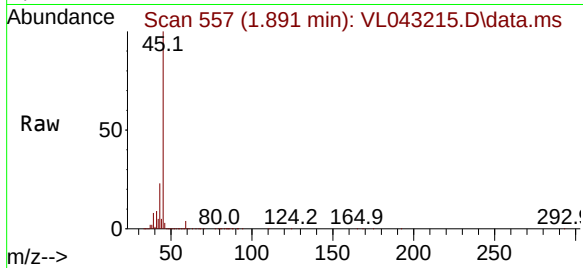
IA1DUP

Tgt Ion: 59 Resp: 45075

Ion Ratio Lower Upper

59 100

57 0.0 9.0 13.4#



#18

1,1-Dichloroethene

Concen: 0.485 ppbv

RT: 2.033 min Scan# 601

Delta R.T. 0.003 min

Lab File: VL043215.D

Acq: 18 Nov 2025 16:31

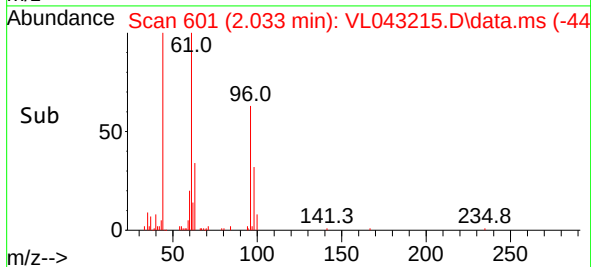
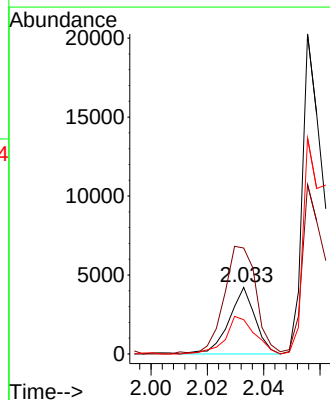
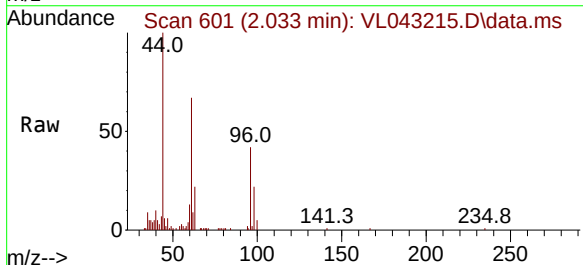
Tgt Ion: 96 Resp: 2720

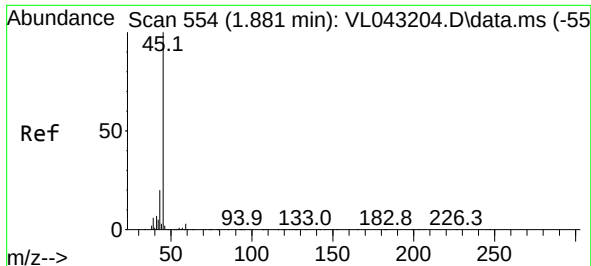
Ion Ratio Lower Upper

96 100

61 155.9 170.6 255.8#

98 51.4 52.2 78.4#

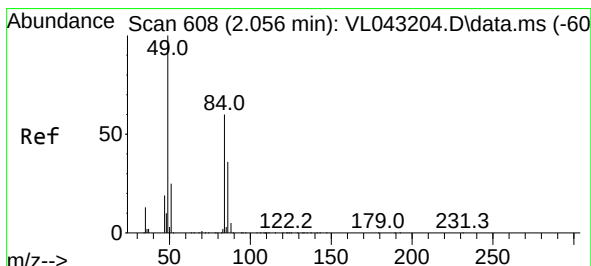
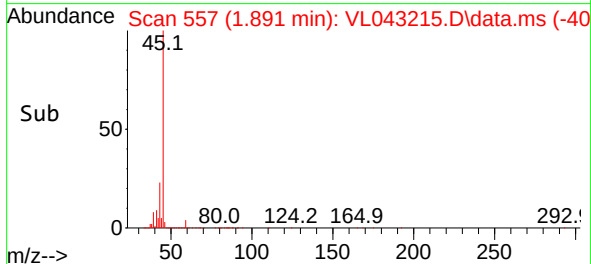
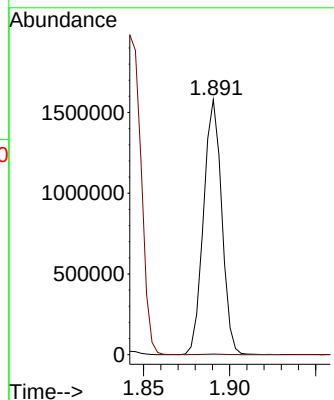
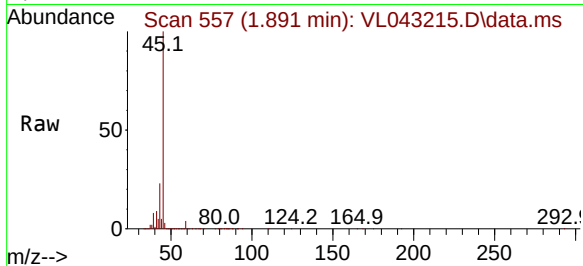




#19
Isopropyl Alcohol
Concen: 130.997 ppbv
RT: 1.891 min Scan# 511
Delta R.T. 0.010 min
Lab File: VL043215.D
Acq: 18 Nov 2025 16:31

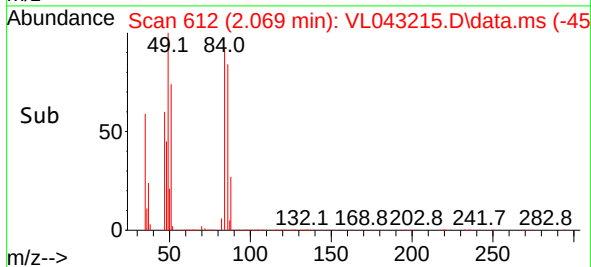
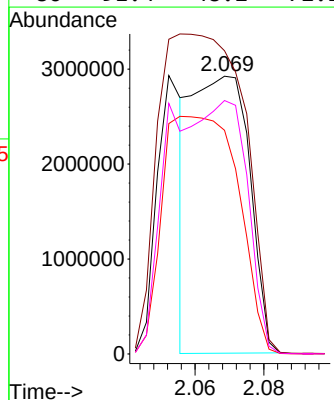
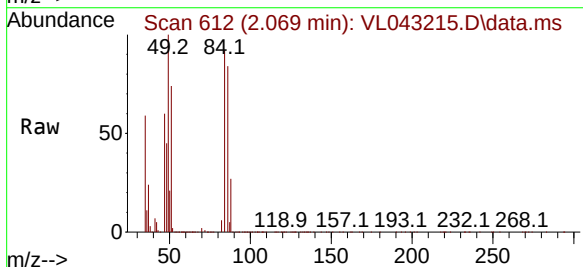
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

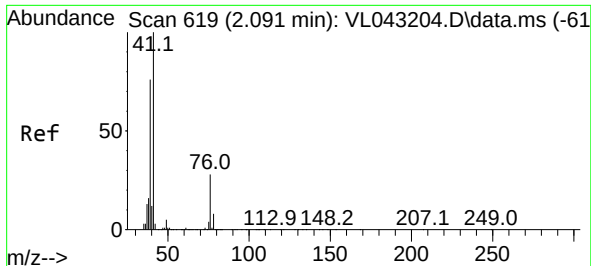
Tgt Ion: 45 Resp: 1161668
Ion Ratio Lower Upper
45 100
58 0.0 31.3 46.9#



#20
Methylene Chloride
Concen: 800.842 ppbv
RT: 2.069 min Scan# 612
Delta R.T. 0.013 min
Lab File: VL043215.D
Acq: 18 Nov 2025 16:31

Tgt Ion: 84 Resp: 3416256
Ion Ratio Lower Upper
84 100
49 109.0 132.9 199.3#
51 80.7 34.8 52.2#
86 91.4 48.2 72.2#

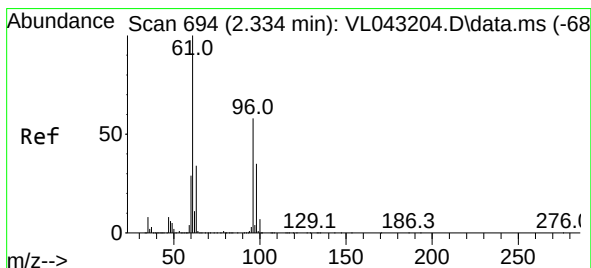
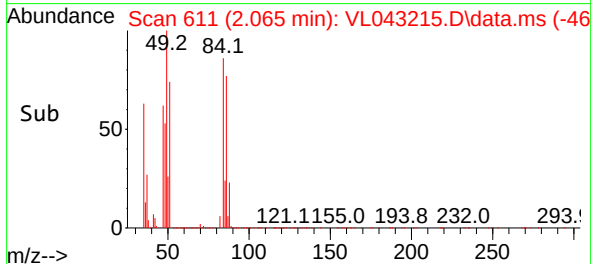
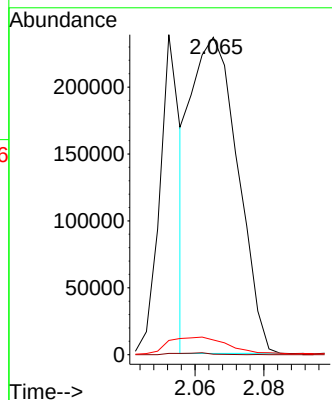
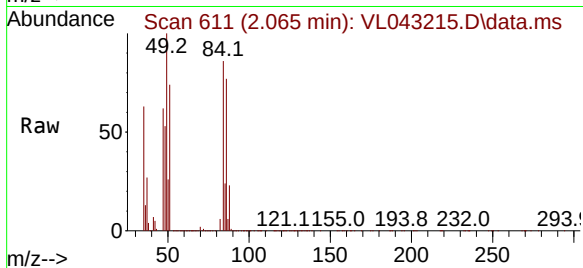




#21
 Allyl Chloride
 Concen: 21.116 ppbv
 RT: 2.065 min Scan# 611
 Delta R.T. -0.026 min
 Lab File: VL043215.D
 Acq: 18 Nov 2025 16:31

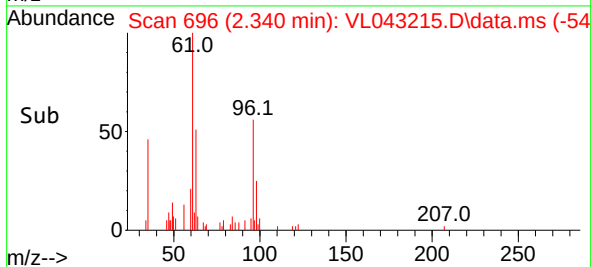
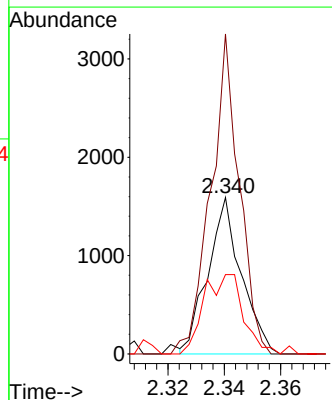
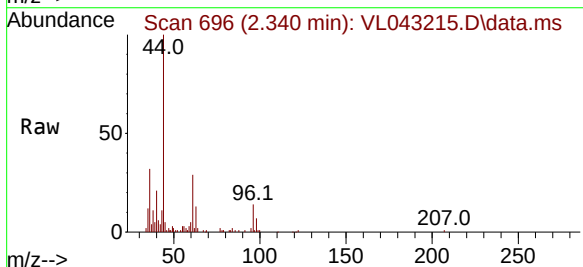
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP

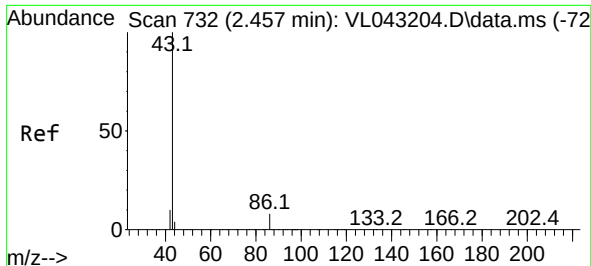
Tgt Ion: 41 Resp: 222948
 Ion Ratio Lower Upper
 41 100
 76 0.5 22.1 33.1#
 39 0.0 61.0 91.4#



#22
 trans-1,2-Dichloroethene
 Concen: 0.205 ppbv
 RT: 2.340 min Scan# 696
 Delta R.T. 0.006 min
 Lab File: VL043215.D
 Acq: 18 Nov 2025 16:31

Tgt Ion: 96 Resp: 1314
 Ion Ratio Lower Upper
 96 100
 61 204.5 139.0 208.6
 98 50.7 49.4 74.2



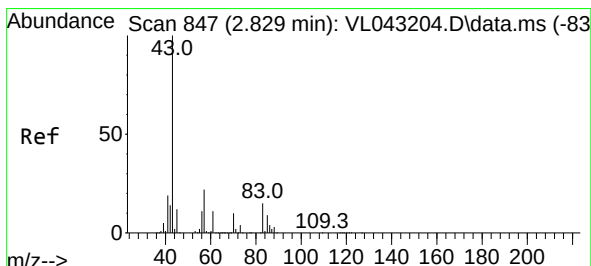
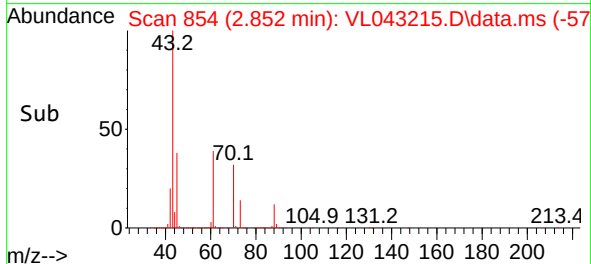
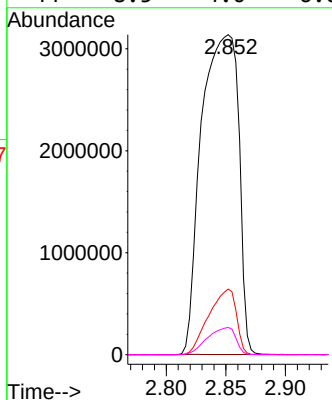
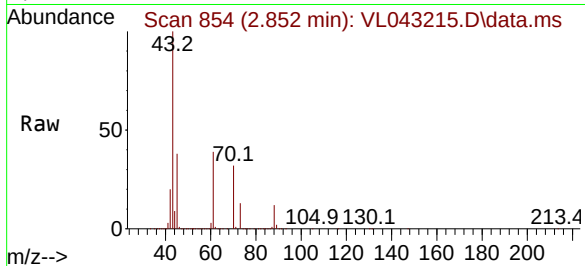


#23
 Vinyl Acetate
 Concen: 359.339 ppbv
 RT: 2.852 min Scan# 854
 Delta R.T. 0.395 min
 Lab File: VL043215.D
 Acq: 18 Nov 2025 16:31

Instrument :
 MSVOA_1
 ClientSampleId :
 IA1DUP

Tgt Ion: 43 Resp: 6807949

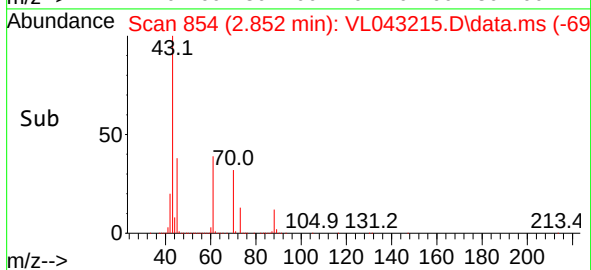
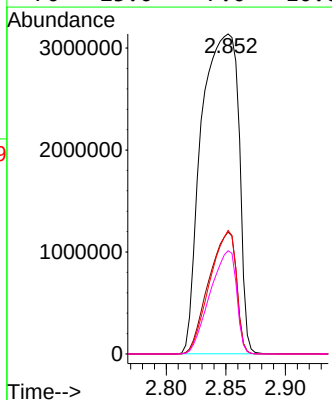
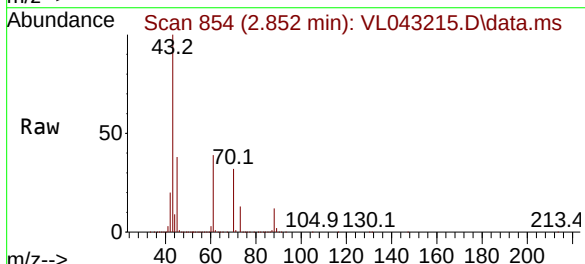
Ion	Ratio	Lower	Upper
43	100		
86	0.0	6.2	9.2#
42	20.5	8.0	12.0#
44	8.5	4.0	6.0#

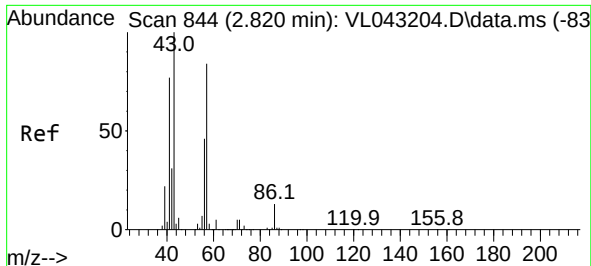


#25
 Ethyl Acetate
 Concen: 201.138 ppbv
 RT: 2.852 min Scan# 854
 Delta R.T. 0.022 min
 Lab File: VL043215.D
 Acq: 18 Nov 2025 16:31

Tgt Ion: 43 Resp: 6807949

Ion	Ratio	Lower	Upper
43	100		
45	28.3	8.1	12.1#
61	27.4	7.0	10.4#
70	23.0	7.0	10.6#

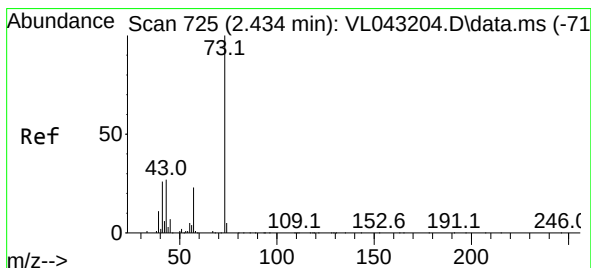
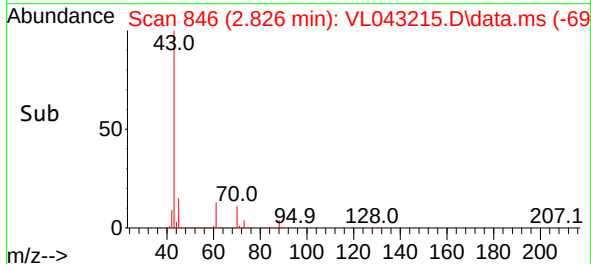
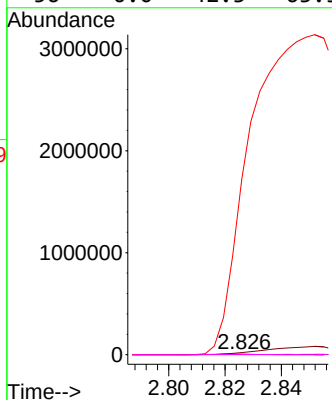
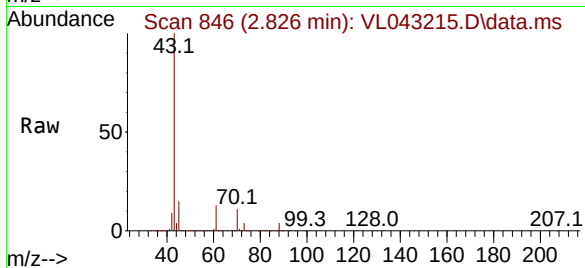




#26
Hexane
Concen: 0.317 ppbv
RT: 2.826 min Scan# 844
Delta R.T. 0.006 min
Lab File: VL043215.D
Acq: 18 Nov 2025 16:31

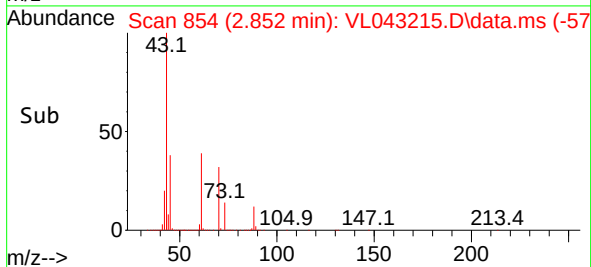
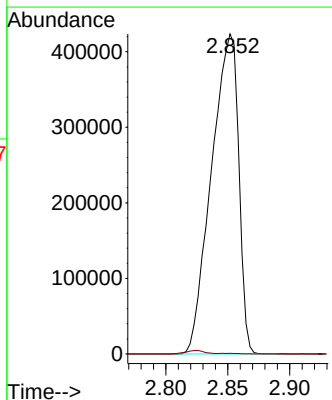
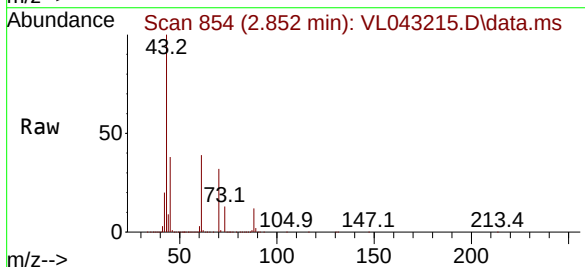
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

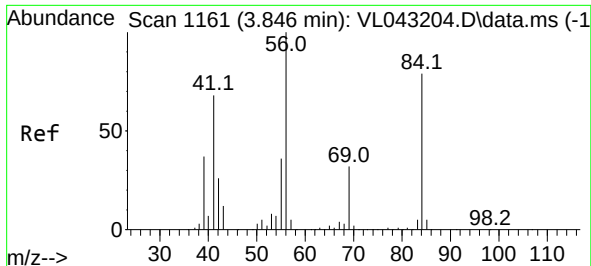
Tgt Ion: 57 Resp: 4701
Ion Ratio Lower Upper
57 100
41 0.0 74.6 111.8#
43 0.0 179.0 268.4#
56 0.0 42.3 63.5#



#28
Methyl tert-Butyl Ether
Concen: 88.975 ppbv
RT: 2.852 min Scan# 854
Delta R.T. 0.417 min
Lab File: VL043215.D
Acq: 18 Nov 2025 16:31

Tgt Ion: 73 Resp: 648098
Ion Ratio Lower Upper
73 100
57 0.0 19.8 29.8#

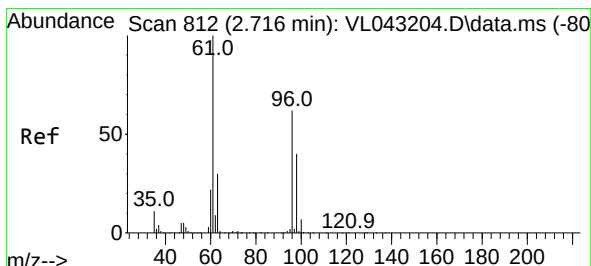
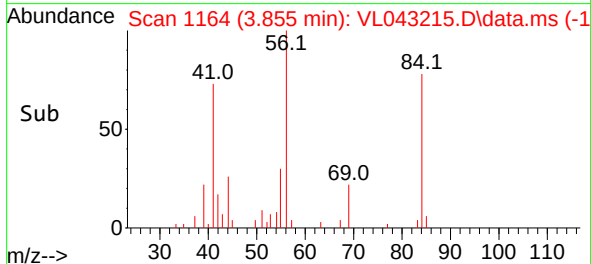
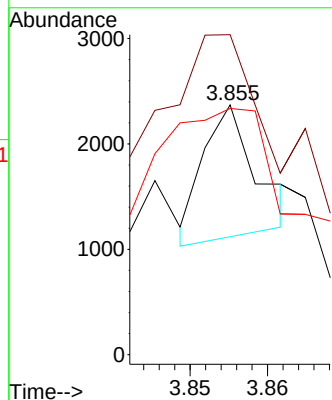
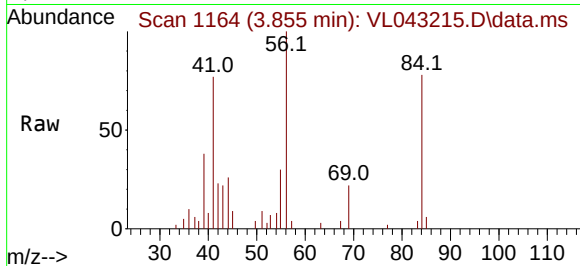




#30
Cyclohexane
Concen: 0.048 ppbv
RT: 3.855 min Scan# 1161
Delta R.T. 0.010 min
Lab File: VL043215.D
Acq: 18 Nov 2025 16:31

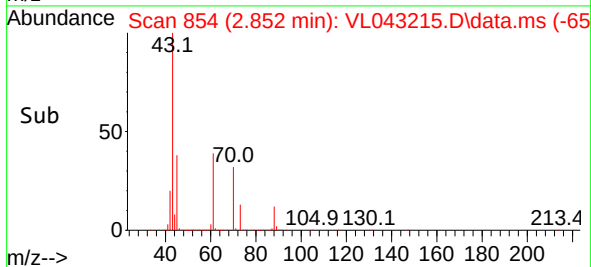
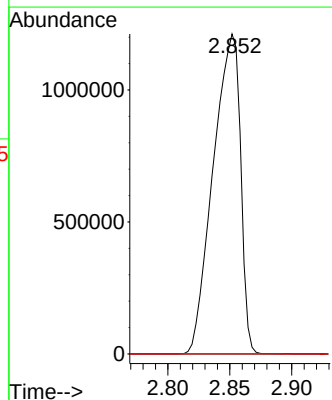
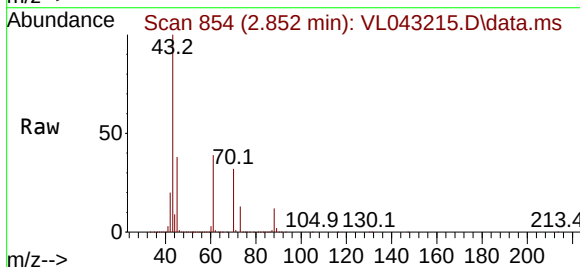
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

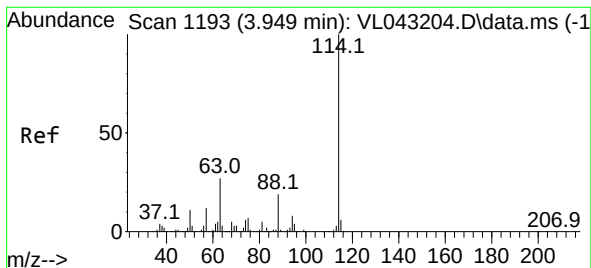
Tgt Ion: 84 Resp: 601
Ion Ratio Lower Upper
84 100
56 0.0 104.7 157.1#
41 0.0 69.0 103.6#



#31
cis-1,2-Dichloroethene
Concen: 126.447 ppbv
RT: 2.852 min Scan# 854
Delta R.T. 0.136 min
Lab File: VL043215.D
Acq: 18 Nov 2025 16:31

Tgt Ion: 61 Resp: 1865076
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# 1193

Delta R.T. 0.006 min

Lab File: VL043215.D

Acq: 18 Nov 2025 16:31

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

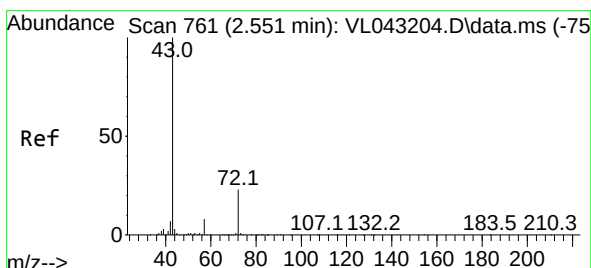
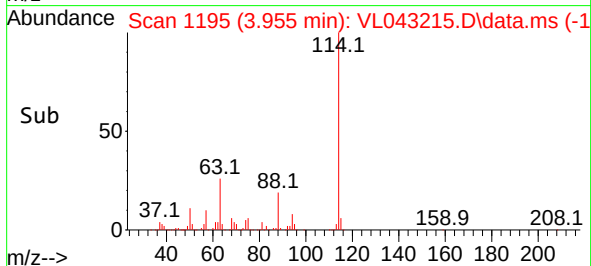
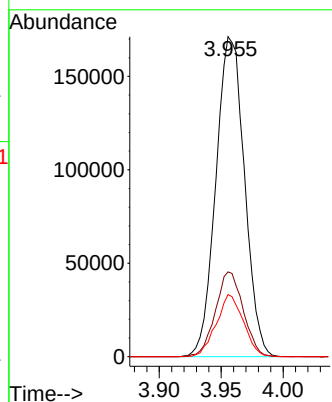
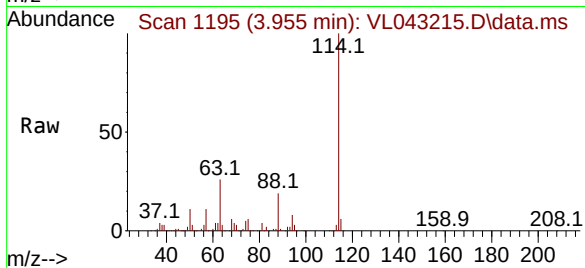
Tgt Ion:114 Resp: 275778

Ion Ratio Lower Upper

114 100

63 25.7 21.0 31.6

88 18.4 14.9 22.3



#34

2-Butanone

Concen: 349.720 ppbv

RT: 2.852 min Scan# 854

Delta R.T. 0.301 min

Lab File: VL043215.D

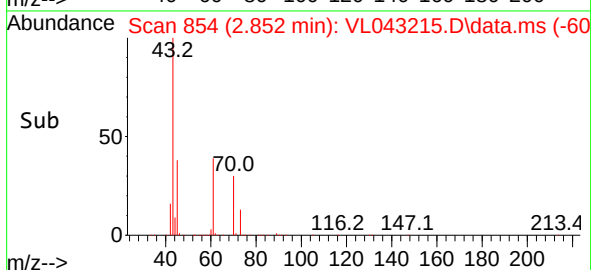
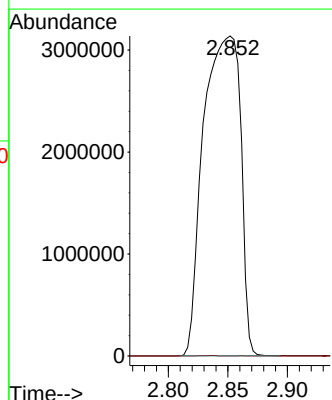
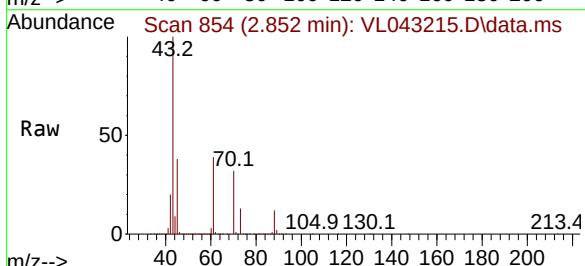
Acq: 18 Nov 2025 16:31

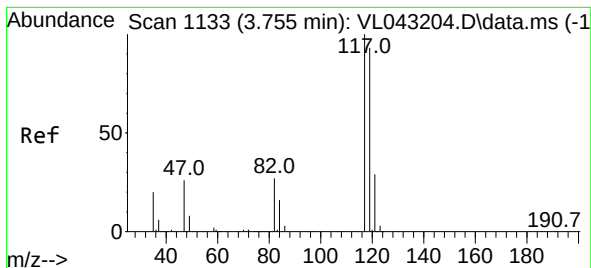
Tgt Ion: 43 Resp: 6807949

Ion Ratio Lower Upper

43 100

72 0.0 18.1 27.1#





#35

Carbon Tetrachloride

Concen: 0.039 ppbv

RT: 3.765 min Scan# 1133

Delta R.T. 0.010 min

Lab File: VL043215.D

Acq: 18 Nov 2025 16:31

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

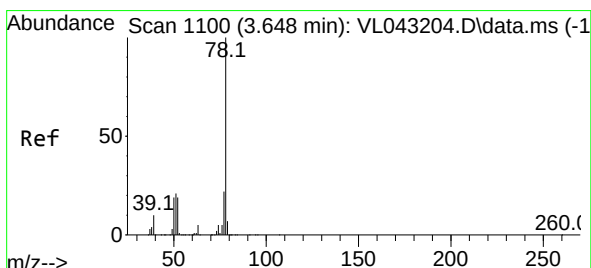
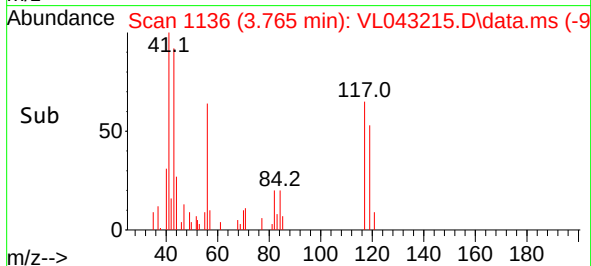
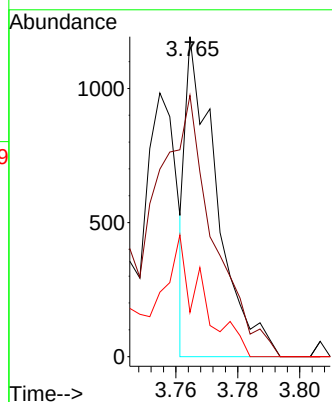
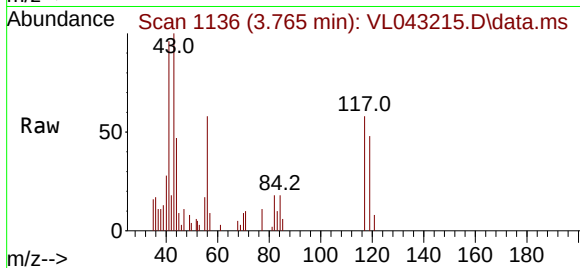
Tgt Ion:117 Resp: 822

Ion Ratio Lower Upper

117 100

119 81.6 74.6 112.0

121 13.8 23.2 34.8#



#36

Benzene

Concen: 0.180 ppbv

RT: 3.654 min Scan# 1102

Delta R.T. 0.006 min

Lab File: VL043215.D

Acq: 18 Nov 2025 16:31

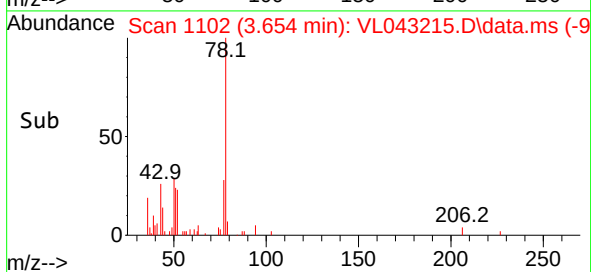
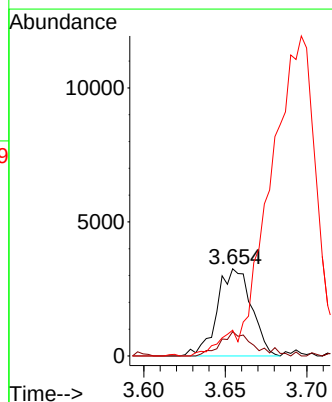
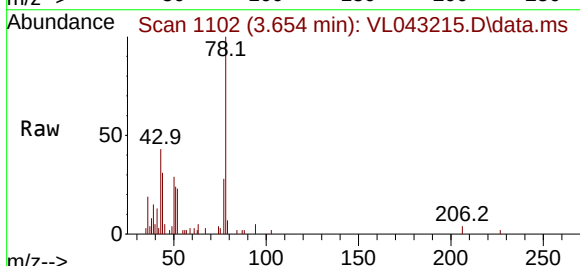
Tgt Ion: 78 Resp: 4765

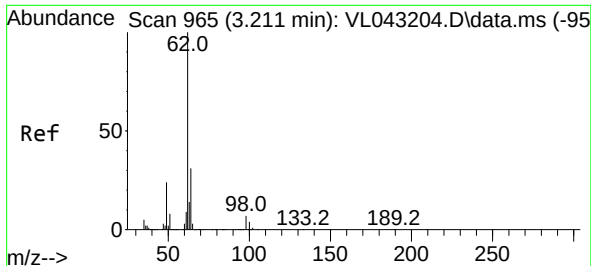
Ion Ratio Lower Upper

78 100

77 27.8 17.5 26.3#

50 29.5 15.5 23.3#





#37

1,2-Dichloroethane

Concen: 0.629 ppbv

RT: 3.221 min Scan# 9

Delta R.T. 0.010 min

Lab File: VL043215.D

Acq: 18 Nov 2025 16:31

Instrument :

MSVOA_L

ClientSampleId :

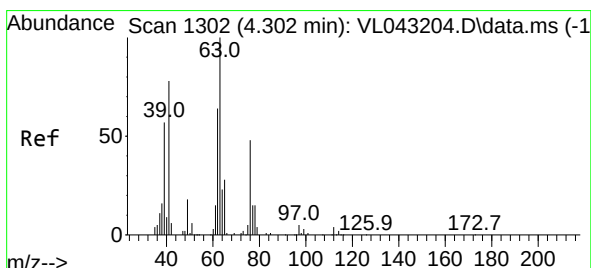
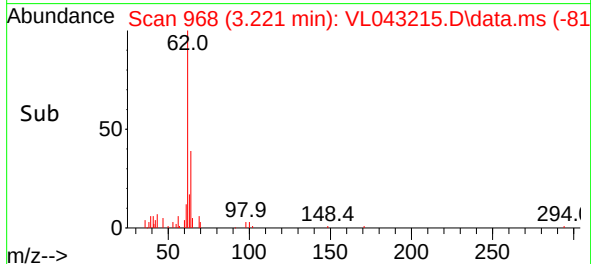
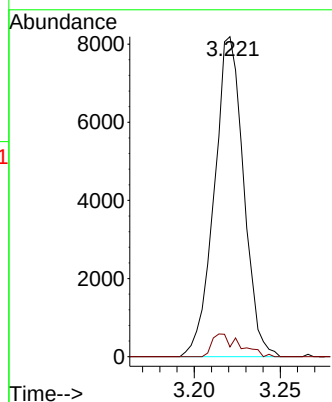
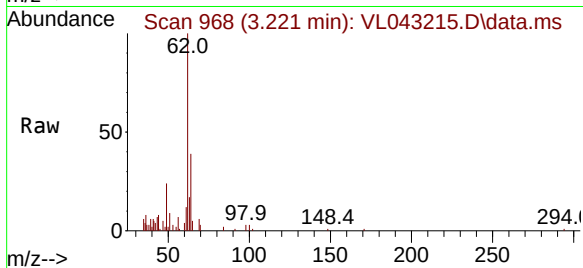
IA1DUP

Tgt Ion: 62 Resp: 9714

Ion Ratio Lower Upper

62 100

98 6.6 5.5 8.3



#39

1,2-Dichloropropane

Concen: 7.324 ppbv

RT: 3.955 min Scan# 1195

Delta R.T. -0.346 min

Lab File: VL043215.D

Acq: 18 Nov 2025 16:31

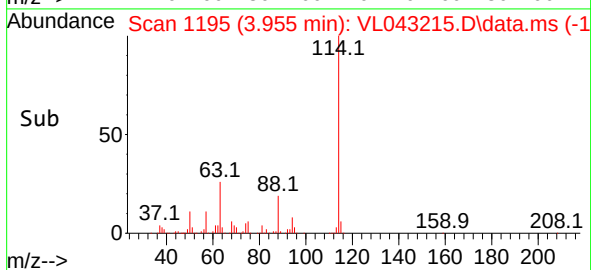
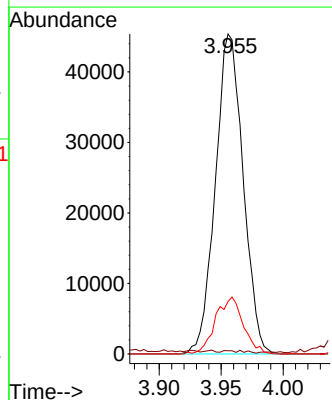
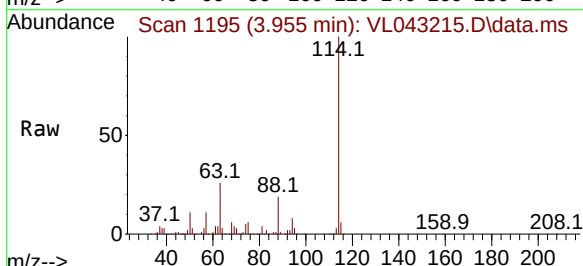
Tgt Ion: 63 Resp: 70795

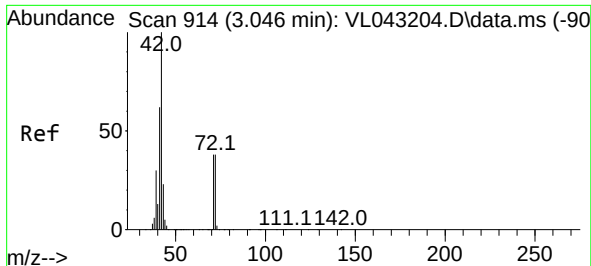
Ion Ratio Lower Upper

63 100

41 0.3 62.6 93.8#

62 16.4 51.0 76.6#

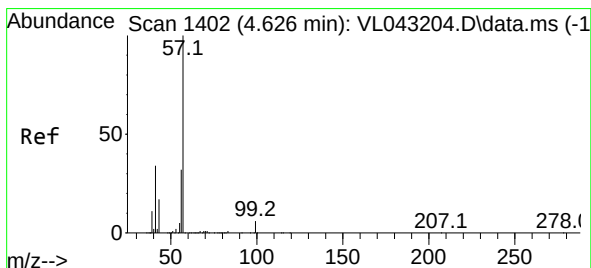
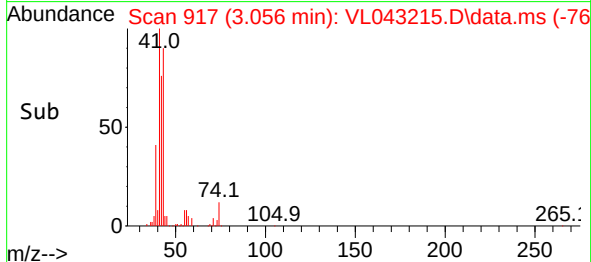
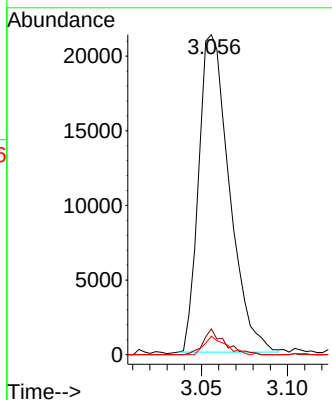
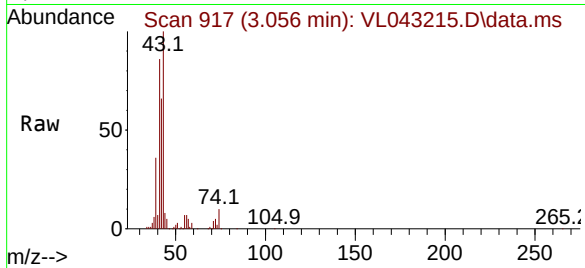




#41
Tetrahydrofuran
Concen: 2.456 ppbv
RT: 3.056 min Scan# 914
Delta R.T. 0.010 min
Lab File: VL043215.D
Acq: 18 Nov 2025 16:31

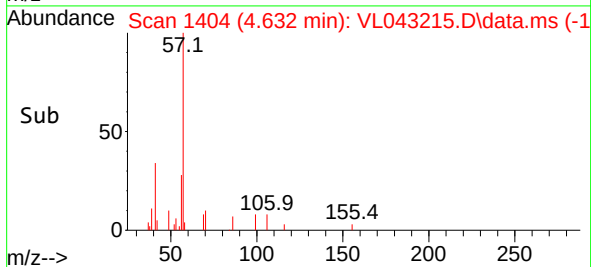
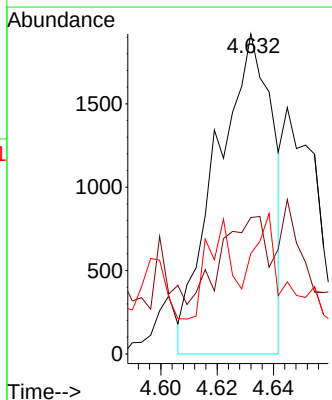
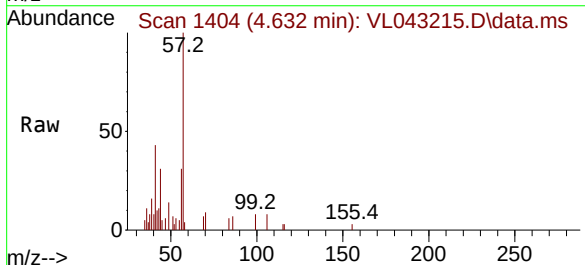
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

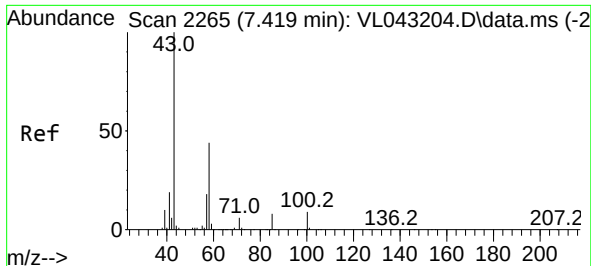
Tgt Ion: 42 Resp: 26404
Ion Ratio Lower Upper
42 100
72 5.6 30.6 46.0#
71 0.0 30.5 45.7#



#44
2,2,4-Trimethylpentane
Concen: 0.059 ppbv
RT: 4.632 min Scan# 1404
Delta R.T. 0.006 min
Lab File: VL043215.D
Acq: 18 Nov 2025 16:31

Tgt Ion: 57 Resp: 2659
Ion Ratio Lower Upper
57 100
41 0.0 28.0 42.0#
56 60.3 25.6 38.4#

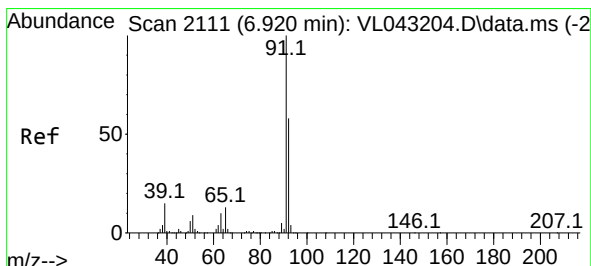
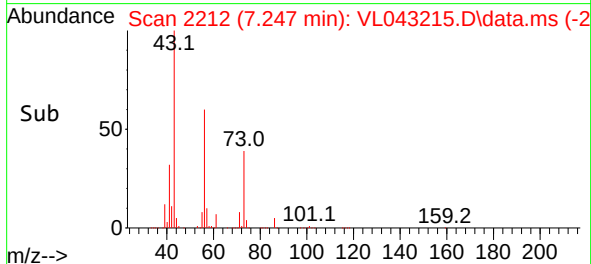
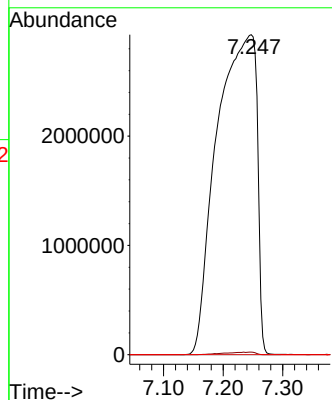
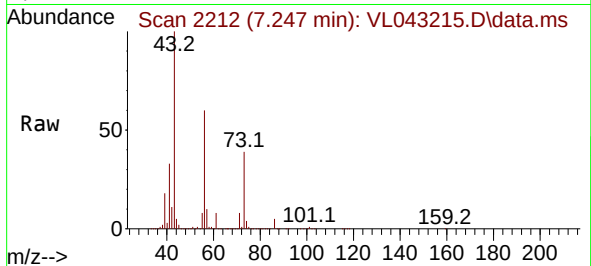




#51
2-Hexanone
Concen: 641.362 ppbv
RT: 7.247 min Scan# 2119
Delta R.T. -0.172 min
Lab File: VL043215.D
Acq: 18 Nov 2025 16:31

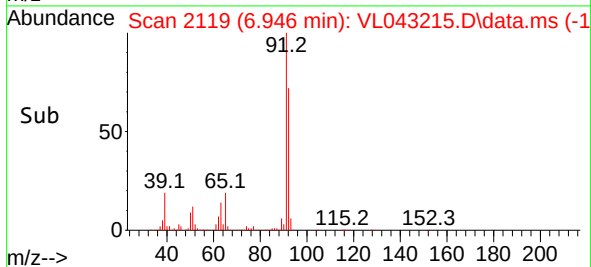
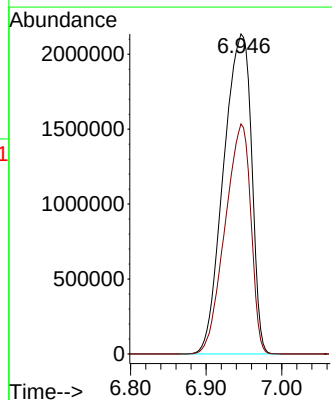
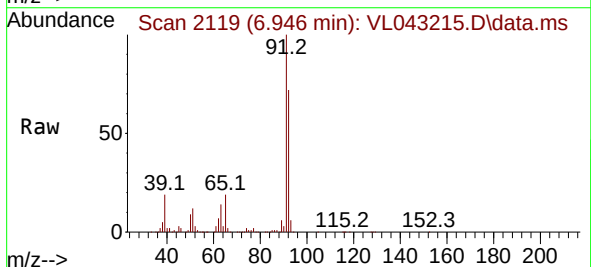
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

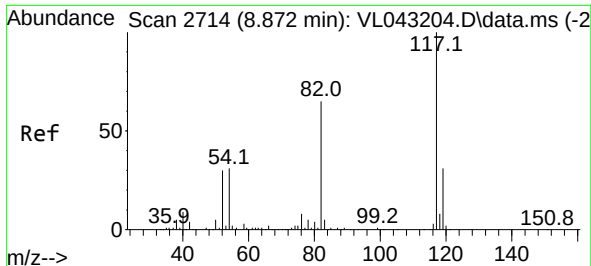
Tgt Ion: 43 Resp:13657690
Ion Ratio Lower Upper
43 100
58 0.6 38.4 57.6#
98 0.0 0.0 0.0#



#53
Toluene
Concen: 175.576 ppbv
RT: 6.946 min Scan# 2119
Delta R.T. 0.026 min
Lab File: VL043215.D
Acq: 18 Nov 2025 16:31

Tgt Ion: 91 Resp: 5490786
Ion Ratio Lower Upper
91 100
92 66.2 47.4 71.0

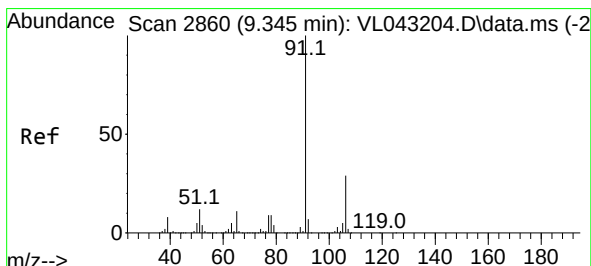
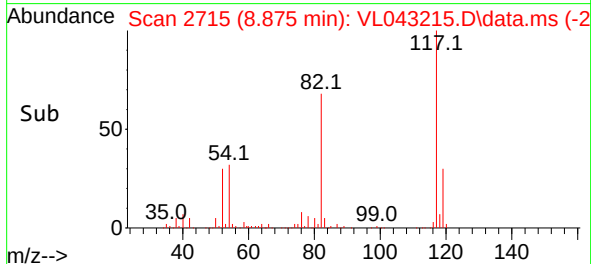
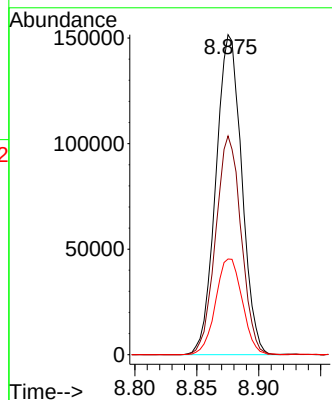
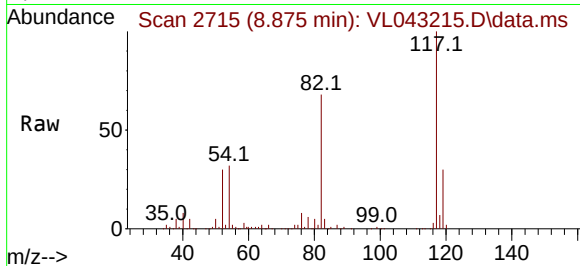




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL043215.D
Acq: 18 Nov 2025 16:31

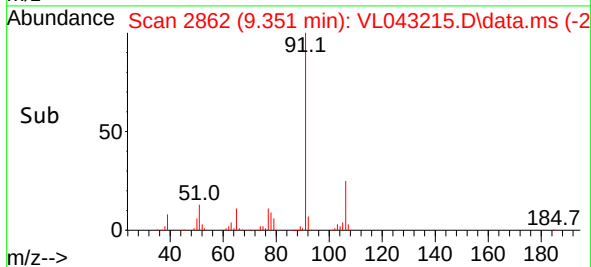
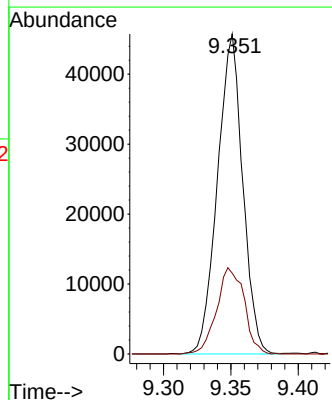
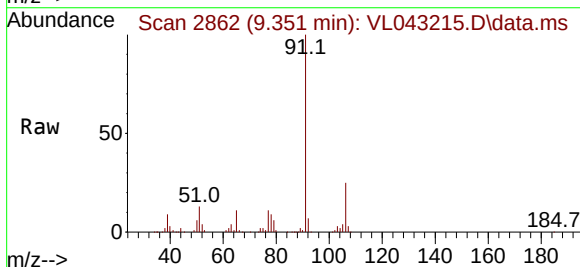
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

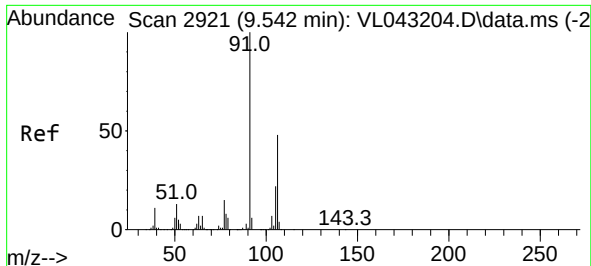
Tgt Ion:117 Resp: 220714
Ion Ratio Lower Upper
117 100
82 67.3 56.1 84.1
119 31.0 25.0 37.6



#58
Ethyl Benzene
Concen: 1.402 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. 0.006 min
Lab File: VL043215.D
Acq: 18 Nov 2025 16:31

Tgt Ion: 91 Resp: 59564
Ion Ratio Lower Upper
91 100
106 25.3 22.8 34.2





#59

m/p-Xylene

Concen: 1.828 ppbv

RT: 9.542 min Scan# 2921

Delta R.T. -0.000 min

Lab File: VL043215.D

Acq: 18 Nov 2025 16:31

Instrument :

MSVOA_L

ClientSampleId :

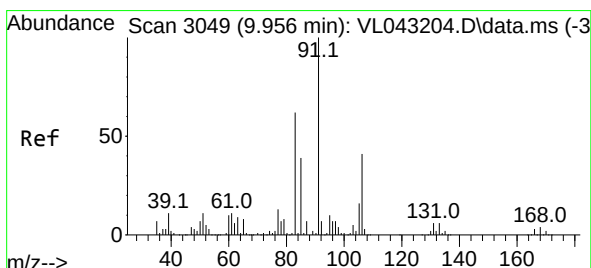
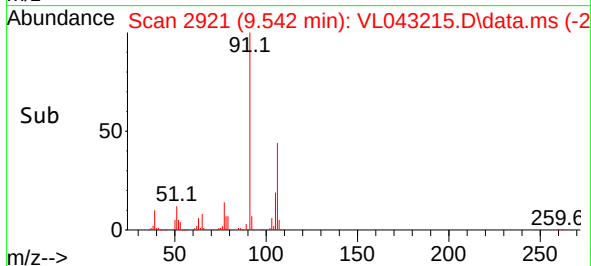
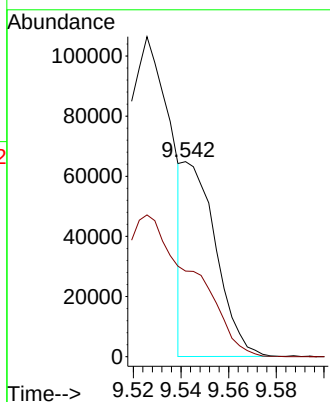
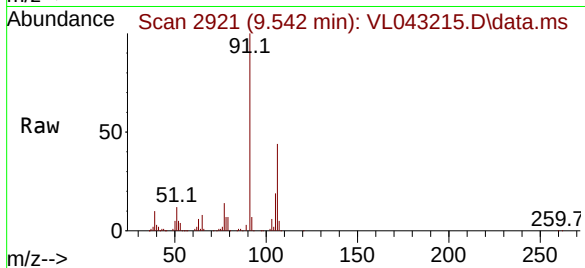
IA1DUP

Tgt Ion: 91 Resp: 62243

Ion Ratio Lower Upper

91 100

106 0.0 36.1 54.1#



#60

o-Xylene

Concen: 1.788 ppbv

RT: 9.956 min Scan# 3049

Delta R.T. -0.000 min

Lab File: VL043215.D

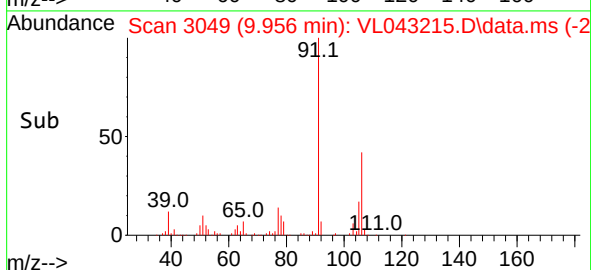
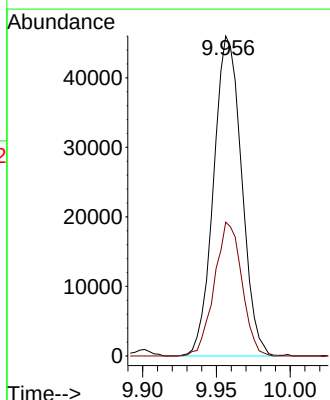
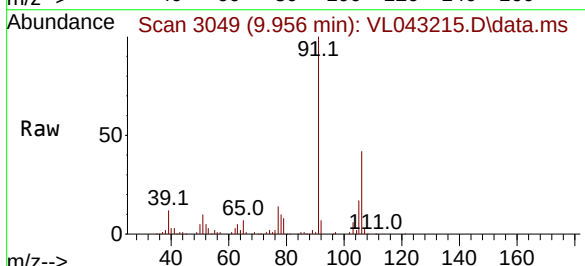
Acq: 18 Nov 2025 16:31

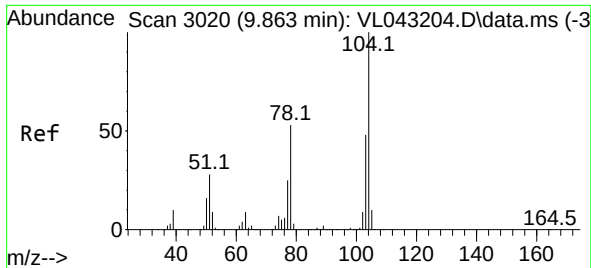
Tgt Ion: 91 Resp: 60853

Ion Ratio Lower Upper

91 100

106 40.9 20.9 62.8





#61

Styrene

Concen: 0.511 ppbv

RT: 9.862 min Scan# 3020

Delta R.T. -0.000 min

Lab File: VL043215.D

Acq: 18 Nov 2025 16:31

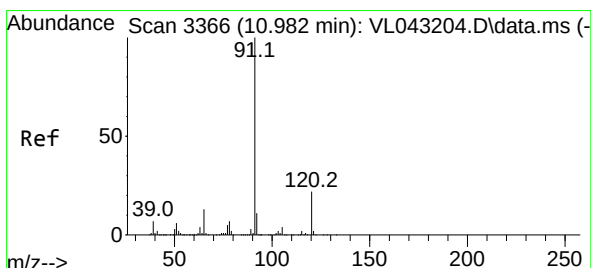
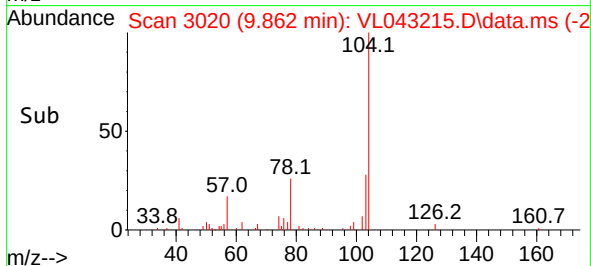
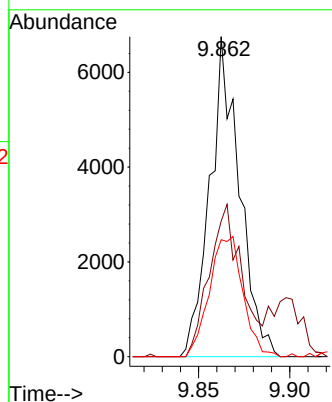
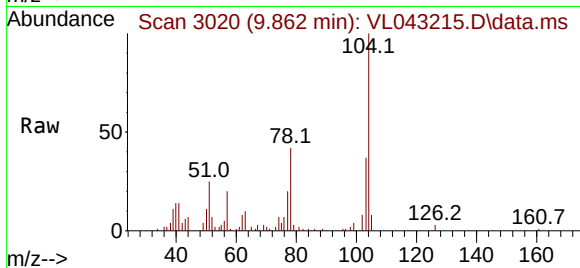
Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

Tgt Ion:104	Resp:	7612
Ion	Ratio	Lower Upper
104	100	
78	71.5	42.1 63.1#
103	42.7	37.2 55.8



#64

n-propylbenzene

Concen: 0.053 ppbv

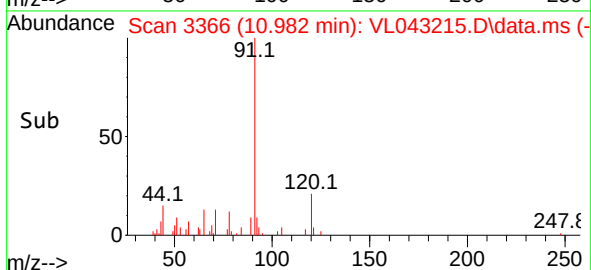
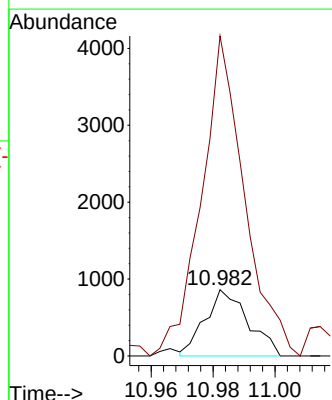
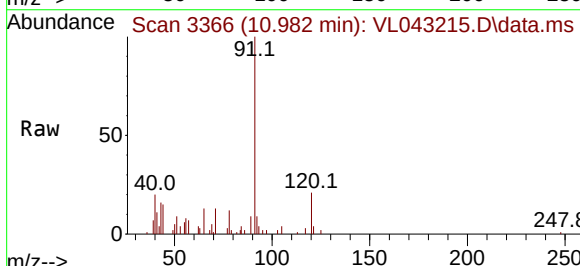
RT: 10.982 min Scan# 3366

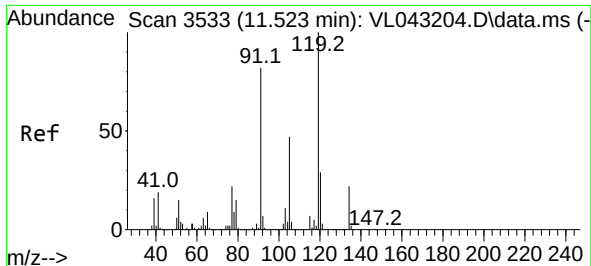
Delta R.T. -0.000 min

Lab File: VL043215.D

Acq: 18 Nov 2025 16:31

Tgt Ion:120	Resp:	829
Ion	Ratio	Lower Upper
120	100	
91	483.5	377.1 565.7

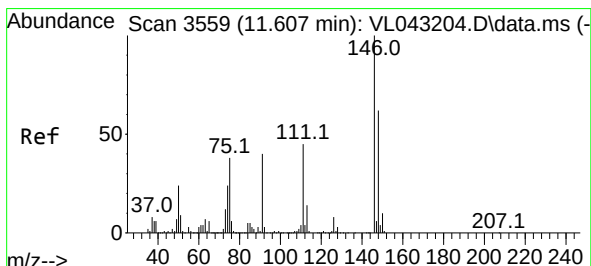
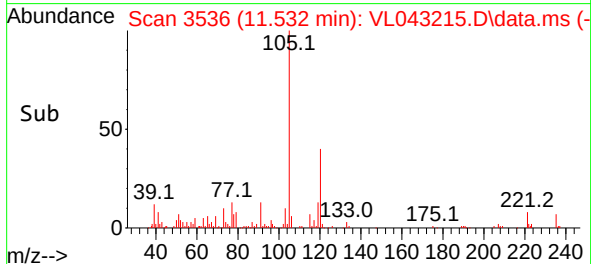
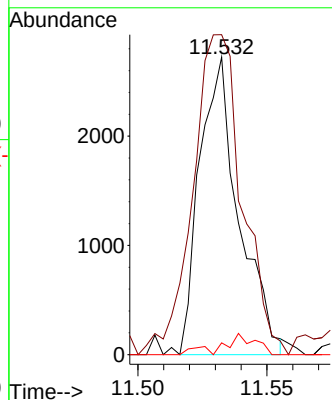
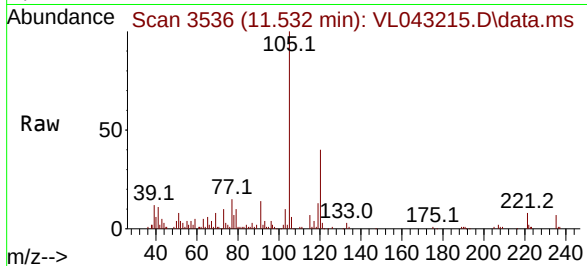




#65
tert-Butylbenzene
Concen: 0.053 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. 0.010 min
Lab File: VL043215.D
Acq: 18 Nov 2025 16:31

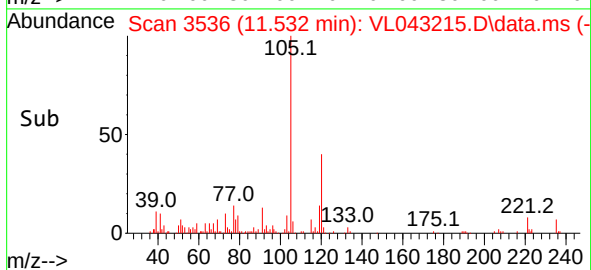
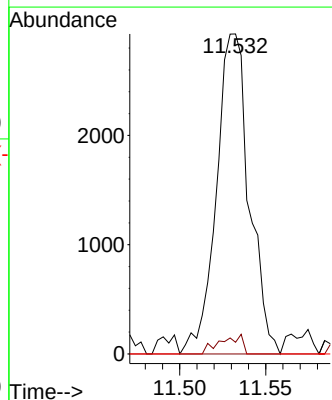
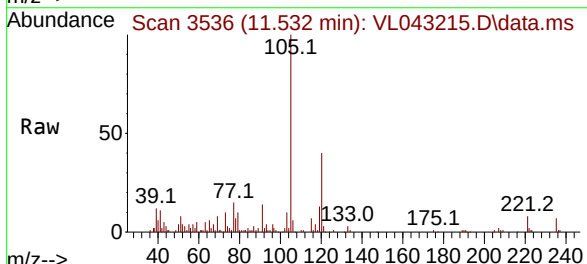
Instrument :
MSVOA_1
ClientSampleId :
IA1DUP

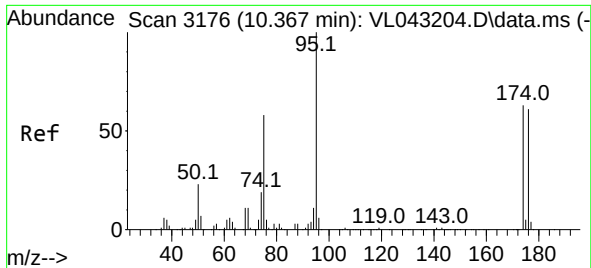
Tgt Ion:119 Resp: 2876
Ion Ratio Lower Upper
119 100
91 145.7 65.3 97.9#
134 6.1 17.0 25.4#



#66
Benzyl Chloride
Concen: 0.706 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. -0.075 min
Lab File: VL043215.D
Acq: 18 Nov 2025 16:31

Tgt Ion: 91 Resp: 3896
Ion Ratio Lower Upper
91 100
126 4.1 14.4 21.6#
128 0.0 4.6 6.8#

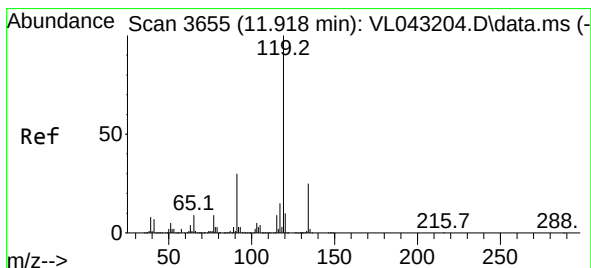
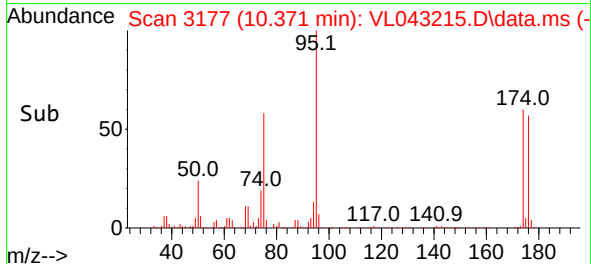
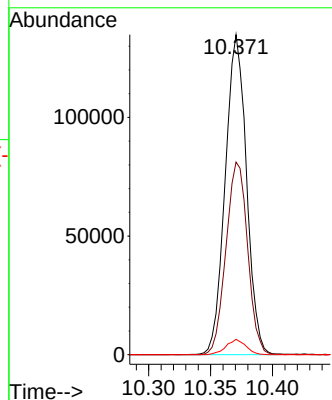
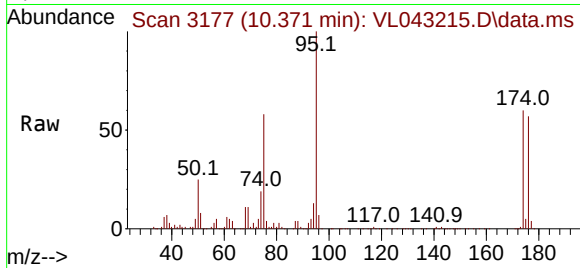




#68
1-Bromo-4-Fluorobenzene
Concen: 9.975 ppbv
RT: 10.371 min Scan# 3177
Delta R.T. 0.003 min
Lab File: VL043215.D
Acq: 18 Nov 2025 16:31

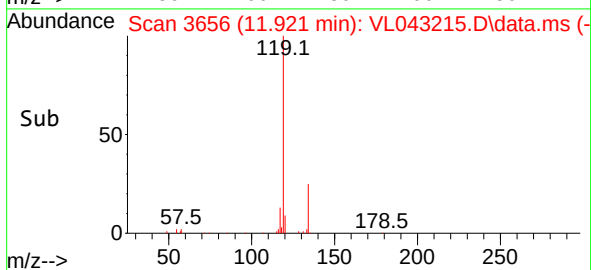
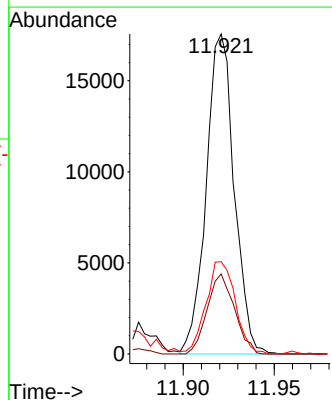
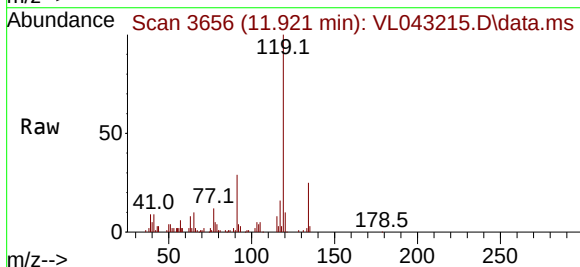
Instrument :
MSVOA_1
ClientSampleId :
IA1DUP

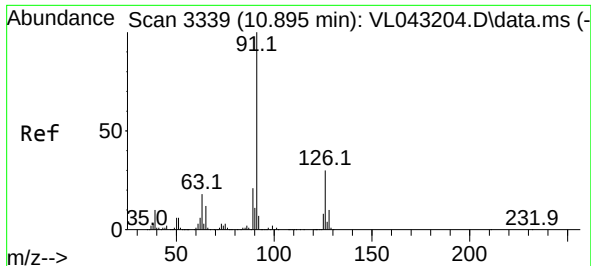
Tgt Ion: 95 Resp: 161385
Ion Ratio Lower Upper
95 100
174 61.2 50.2 75.2
175 4.5 4.1 6.1



#69
p-Isopropyltoluene
Concen: 0.292 ppbv
RT: 11.921 min Scan# 3656
Delta R.T. 0.003 min
Lab File: VL043215.D
Acq: 18 Nov 2025 16:31

Tgt Ion: 119 Resp: 18765
Ion Ratio Lower Upper
119 100
134 25.4 20.2 30.2
91 30.6 23.8 35.8

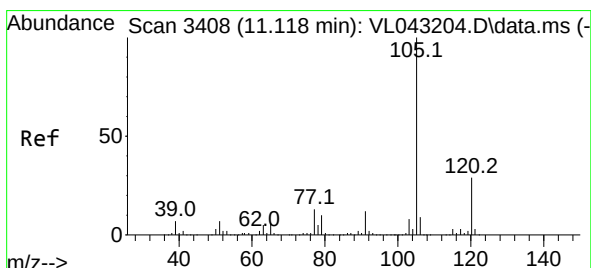
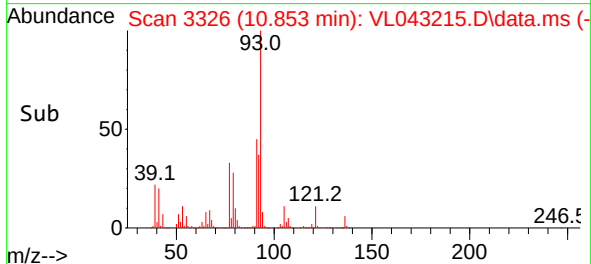
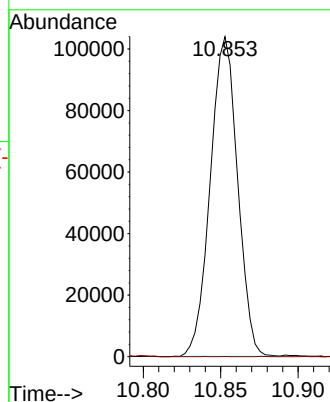
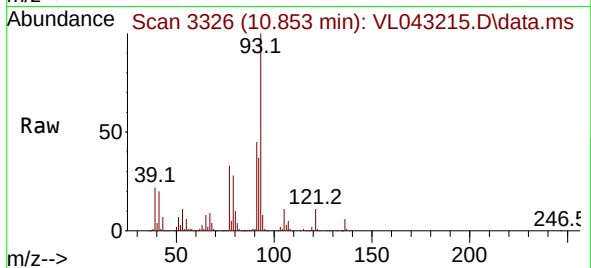




#71
2-Chlorotoluene
Concen: 2.724 ppbv
RT: 10.853 min Scan# 311
Delta R.T. -0.042 min
Lab File: VL043215.D
Acq: 18 Nov 2025 16:31

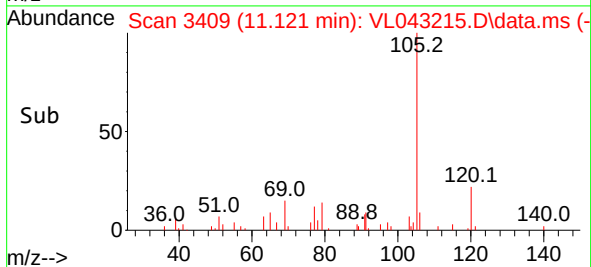
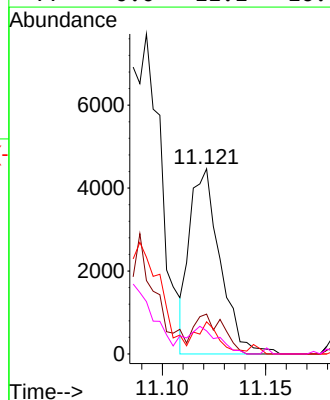
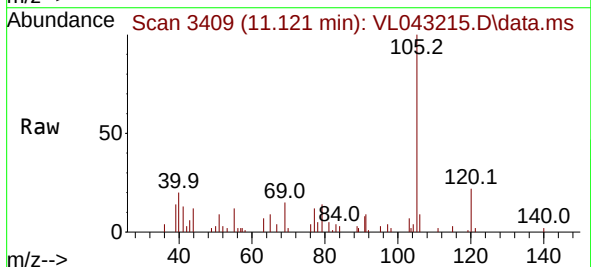
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

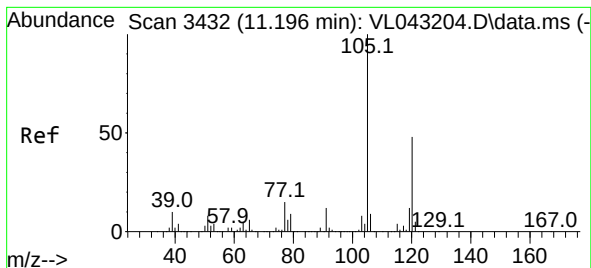
Tgt Ion: 91 Resp: 127476
Ion Ratio Lower Upper
91 100
126 0.0 11.7 46.7#



#72
4-Ethyltoluene
Concen: 0.111 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. 0.003 min
Lab File: VL043215.D
Acq: 18 Nov 2025 16:31

Tgt Ion:105 Resp: 4597
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: 0.144 ppbv

RT: 11.196 min Scan# 3432

Delta R.T. -0.000 min

Lab File: VL043215.D

Acq: 18 Nov 2025 16:31

Instrument :

MSVOA_1

ClientSampleId :

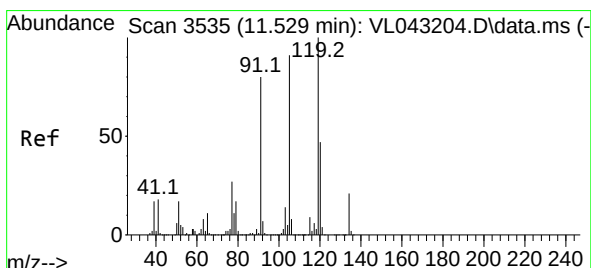
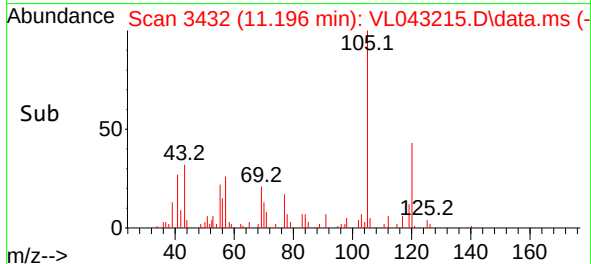
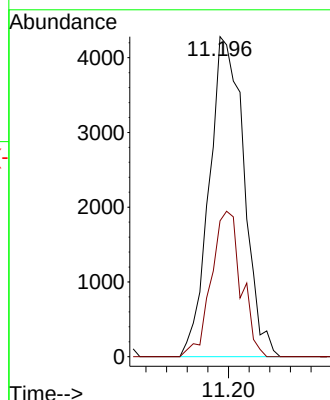
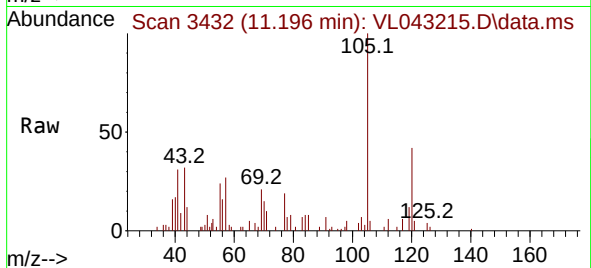
IA1DUP

Tgt Ion:105 Resp: 4991

Ion Ratio Lower Upper

105 100

120 47.1 38.6 57.8



#74

1,2,4-Trimethylbenzene

Concen: 0.563 ppbv

RT: 11.532 min Scan# 3536

Delta R.T. 0.003 min

Lab File: VL043215.D

Acq: 18 Nov 2025 16:31

Tgt Ion:105 Resp: 21383

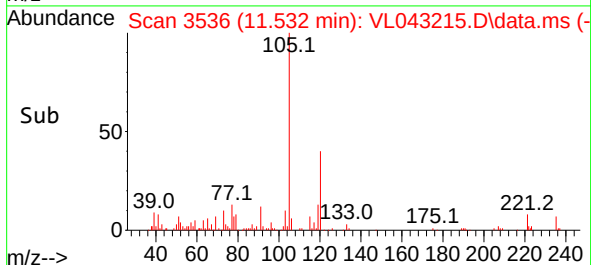
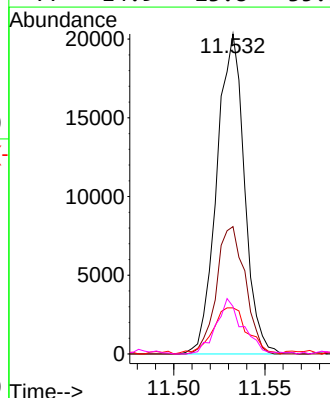
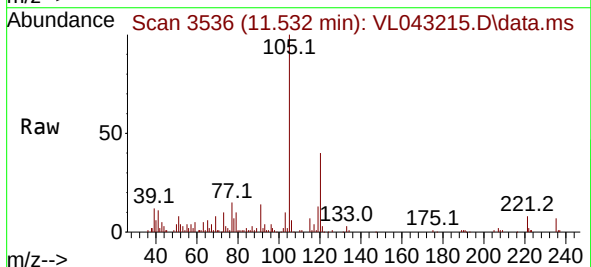
Ion Ratio Lower Upper

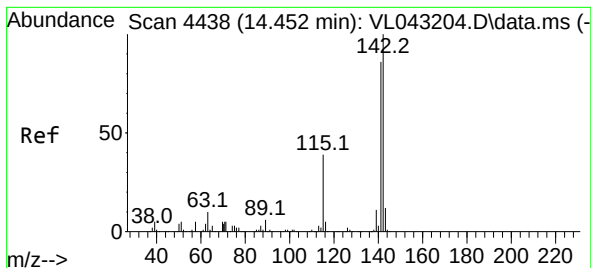
105 100

120 39.8 41.7 62.5#

91 14.4 70.0 105.0#

77 14.9 23.8 35.8#





#80

Naphthalene, 2-methyl-

Concen: 0.117 ppbv

RT: 14.462 min Scan# 4441

Delta R.T. 0.010 min

Lab File: VL043215.D

Acq: 18 Nov 2025 16:31

Instrument :

MSVOA_1

ClientSampleId :

IA1DUP

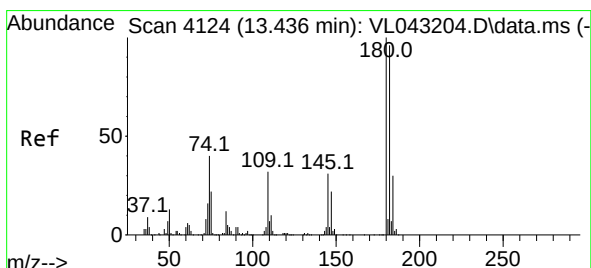
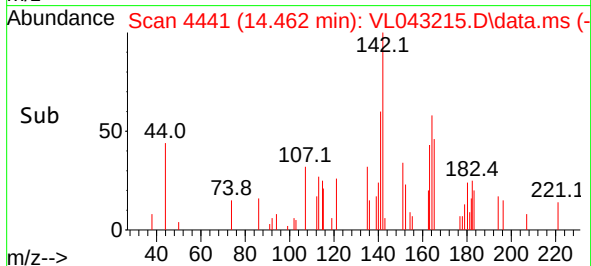
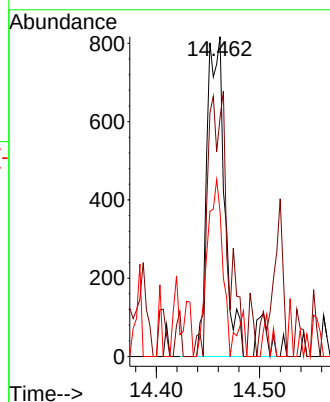
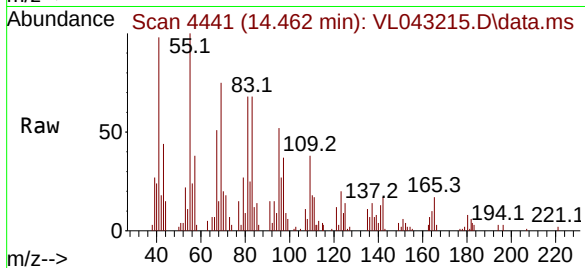
Tgt Ion:142 Resp: 1037

Ion Ratio Lower Upper

142 100

141 95.2 67.1 100.7

115 63.5 31.9 47.9#



#81

1,2,4-Trichlorobenzene

Concen: 0.032 ppbv

RT: 13.439 min Scan# 4125

Delta R.T. 0.003 min

Lab File: VL043215.D

Acq: 18 Nov 2025 16:31

Tgt Ion:180 Resp: 477

Ion Ratio Lower Upper

180 100

182 88.9 77.4 116.2

184 0.0 24.2 36.4#

