

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042370.D
 Acq On : 17 Apr 2025 22:19
 Operator : SY/MD
 Sample : Q1726-05
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-1-03312025

Quant Time: Apr 18 02:45:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 02:14:00 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	113751	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	331268	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	291013	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	238323	9.966	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.700%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	10027	0.499	ppbv	94
3) Chlorodifluoromethane	1.466	51	84256	4.403	ppbv #	60
4) Chloromethane	1.534	50	5131	0.645	ppbv	99
6) Bromomethane	1.667	94	152	0.041	ppbv #	81
9) Propene	1.560	41	123047	14.118	ppbv	97
10) Heptane	4.978	43	117936	4.816	ppbv	99
11) Trichlorofluoromethane	1.878	101	4815	0.252	ppbv	98
12) 1,1,2-Trichlorotri fluo...	2.140	101	1339	0.086	ppbv	96
13) Ethanol	1.722	45	389165	280.929	ppbv	76
15) Acetone	1.835	43	3179147	170.726	ppbv #	41
16) 1,3-Butadiene	1.622	39	38083	4.276	ppbv #	14
17) tert-Butyl alcohol	2.272	59	39766	1.723	ppbv	99
19) Isopropyl Alcohol	1.887	45	379189	36.656	ppbv #	33
20) Methylene Chloride	2.062	84	19314	2.648	ppbv	94
21) Allyl Chloride	2.043	41	4157	0.323	ppbv #	22
23) Vinyl Acetate	2.473	43	56038	7.435	ppbv #	51
25) Ethyl Acetate	2.826	43	68589	1.494	ppbv #	81
26) Hexane	2.826	57	72332	3.893	ppbv #	40
27) Carbon Disulfide	2.153	76	1238	0.062	ppbv #	50
28) Methyl tert-Butyl Ether	2.441	73	537	0.044	ppbv #	48
29) Chloroform	2.845	83	2448	0.093	ppbv	96
30) Cyclohexane	3.852	84	10233	0.681	ppbv #	1
34) 2-Butanone	2.560	43	30710	1.172	ppbv	97
35) Carbon Tetrachloride	3.761	117	2547	0.085	ppbv #	65
36) Benzene	3.654	78	46043	1.289	ppbv	96
37) 1,2-Dichloroethane	3.221	62	3831	0.179	ppbv #	94
39) 1,2-Dichloropropane	3.959	63	87012	6.535	ppbv #	22
41) Tetrahydrofuran	3.062	42	1920	0.126	ppbv #	35
44) 2,2,4-Trimethylpentane	4.642	57	746896	12.103	ppbv	97
50) 4-Methyl-2-Pentanone	5.768	43	3714	0.085	ppbv #	15
51) 2-Hexanone	7.422	43	38587	0.988	ppbv #	27
52) Tetrachloroethene	8.221	164	1269	0.092	ppbv #	66
53) Toluene	6.933	91	1320170	30.789	ppbv	100
58) Ethyl Benzene	9.354	91	360069	6.245	ppbv	99
59) m/p-Xylene	9.532	91	1004159	21.619	ppbv	100
60) o-Xylene	9.966	91	393388	8.410	ppbv	99
61) Styrene	9.872	104	8391	0.376	ppbv	95
62) Isopropylbenzene	10.539	105	39493	0.575	ppbv	95
64) n-propylbenzene	10.989	120	32073	1.858	ppbv	96
65) tert-Butylbenzene	11.536	119	58794	0.932	ppbv #	74
66) Benzyl Chloride	11.536	91	66566	9.598	ppbv #	70
67) sec-Butylbenzene	11.769	105	11229	0.128	ppbv #	62
69) p-Isopropyltoluene	11.924	119	18095	0.237	ppbv	99

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

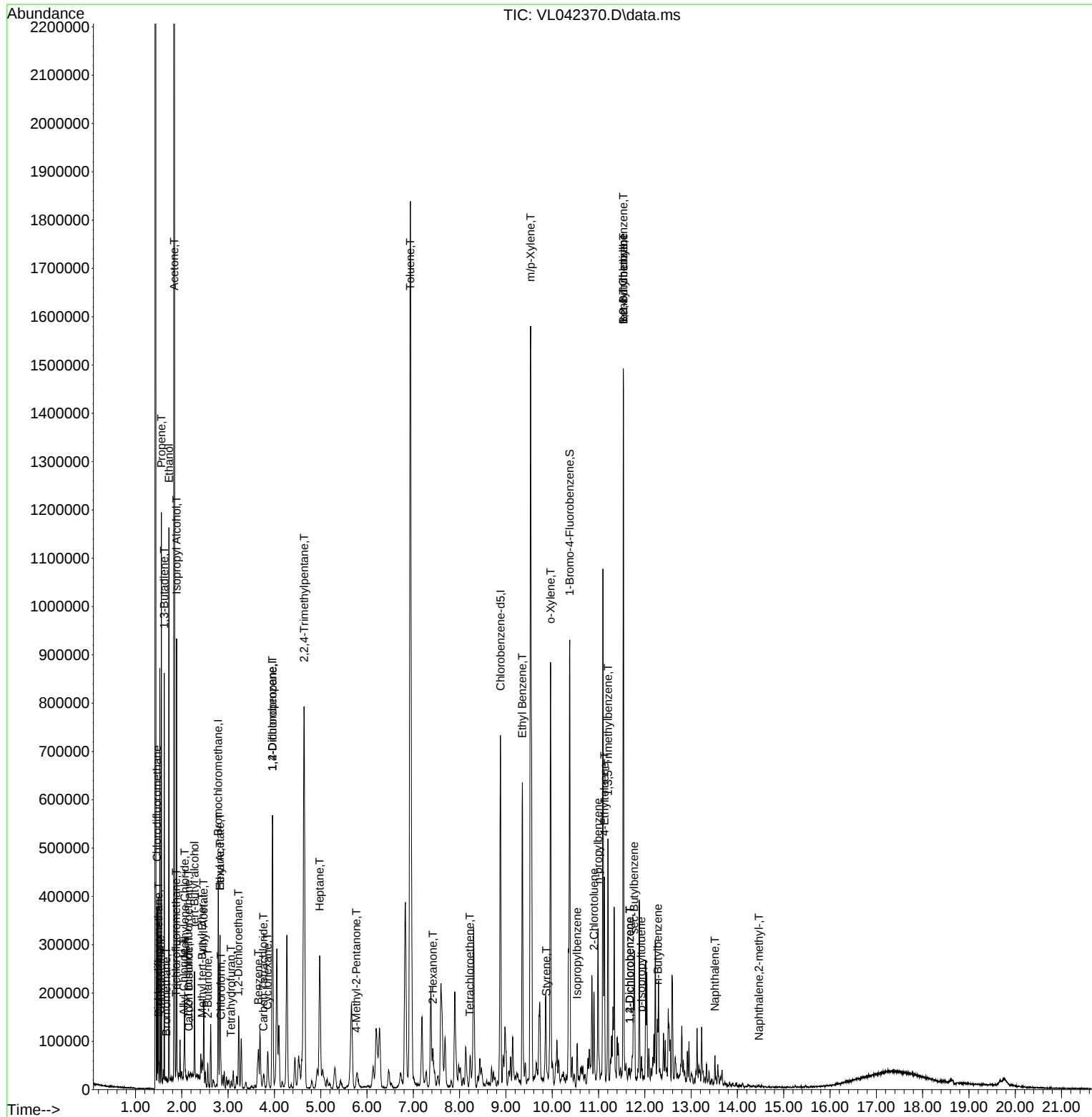
70) n-Butylbenzene	12.283	91	43525	0.548	ppbv #	42
71) 2-Chlorotoluene	10.905	91	42867	0.796	ppbv	97
72) 4-Ethyltoluene	11.128	105	178872	3.128	ppbv #	56
73) 1,3,5-Trimethylbenzene	11.206	105	173796	3.443	ppbv	98
74) 1,2,4-Trimethylbenzene	11.536	105	550459	9.336	ppbv #	63
76) 1,4-Dichlorobenzene	11.672	146	4575	0.149	ppbv	87
77) 1,2-Dichlorobenzene	11.672	146	4575	0.154	ppbv	94
79) Naphthalene	13.513	128	25684	0.364	ppbv	97
80) Naphthalene,2-methyl-	14.465	142	1496	0.037	ppbv #	81

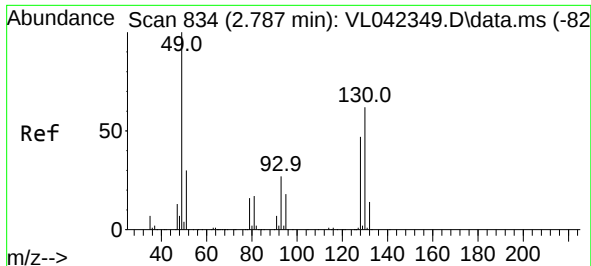
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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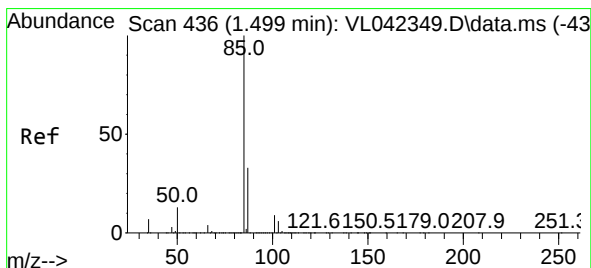
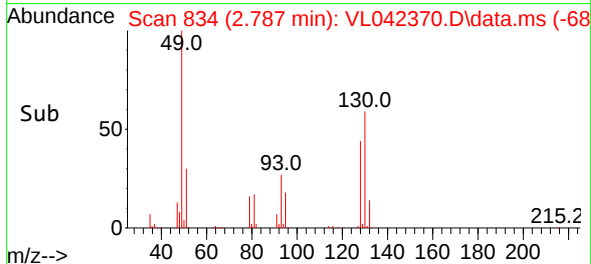
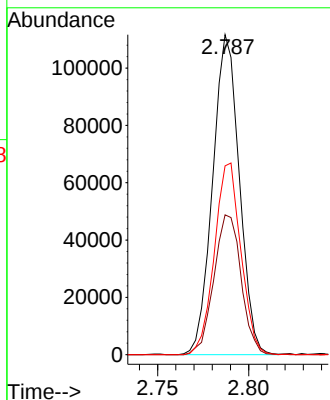
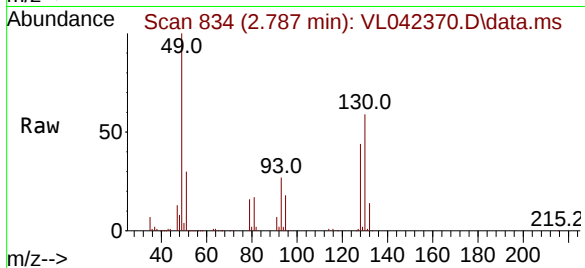




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 834
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

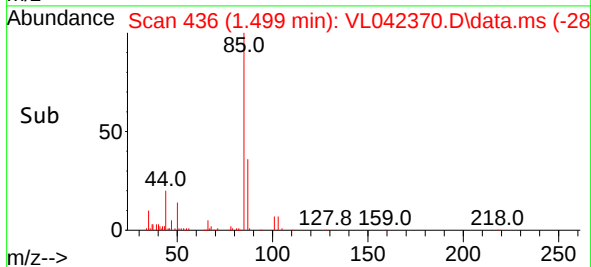
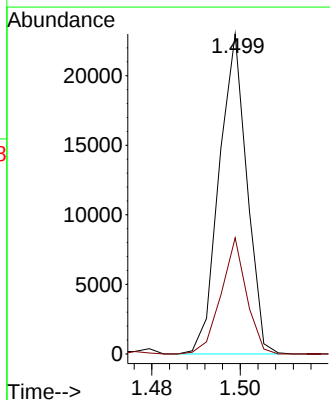
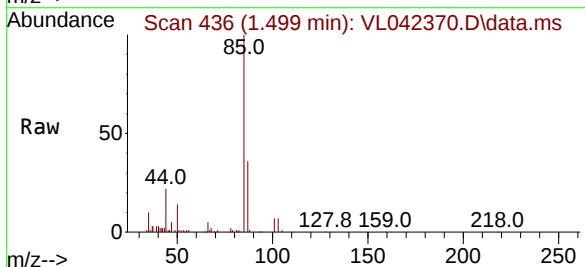
Instrument :
MSVOA_L
ClientSampleId :
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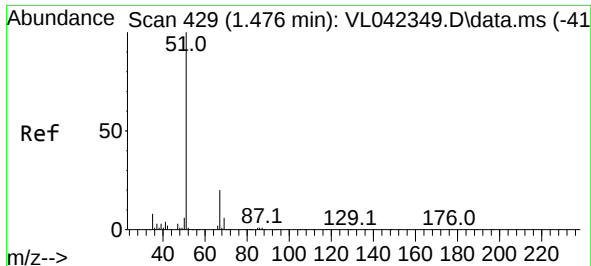
Tgt Ion: 49 Resp: 113751
Ion Ratio Lower Upper
49 100
128 44.7 22.8 68.4
130 59.5 29.3 88.0



#2
Dichlorodifluoromethane
Concen: 0.499 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion: 85 Resp: 10027
Ion Ratio Lower Upper
85 100
87 36.3 26.6 39.8

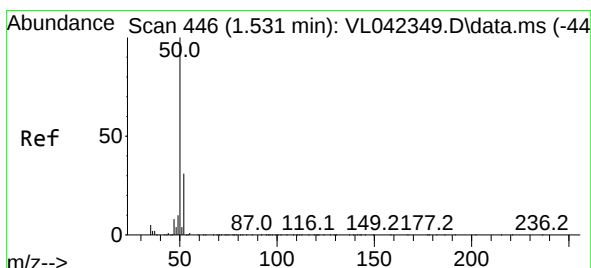
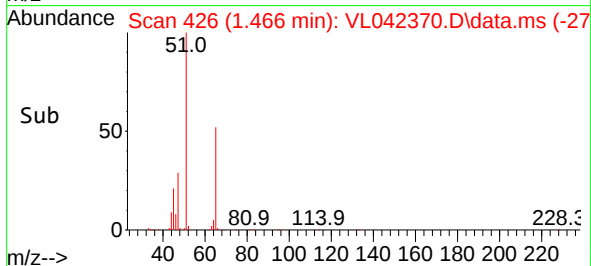
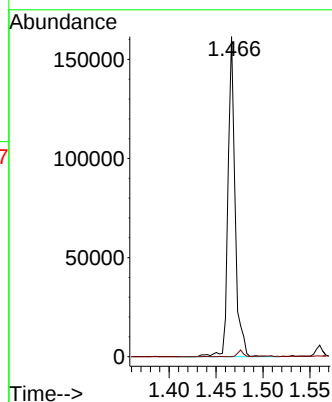
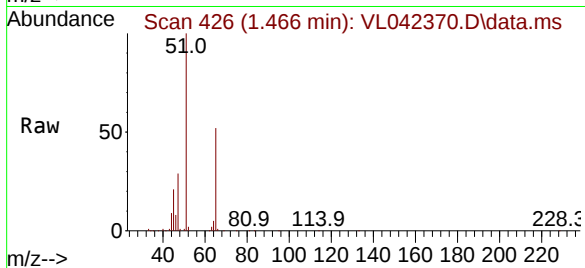




#3
Chlorodifluoromethane
Concen: 4.403 ppbv
RT: 1.466 min Scan# 41
Delta R.T. -0.010 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

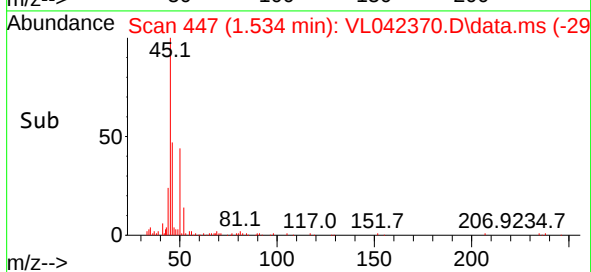
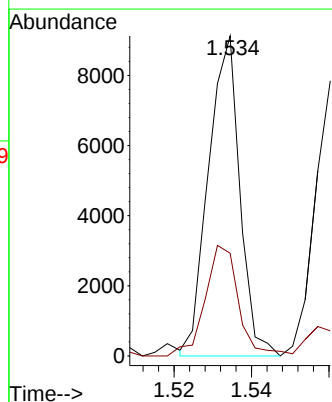
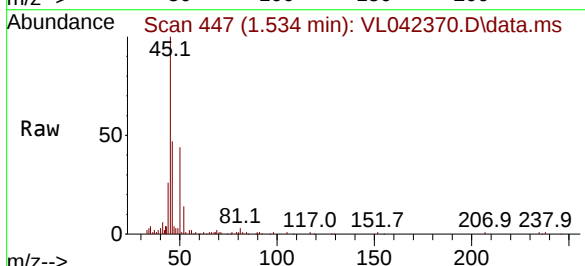
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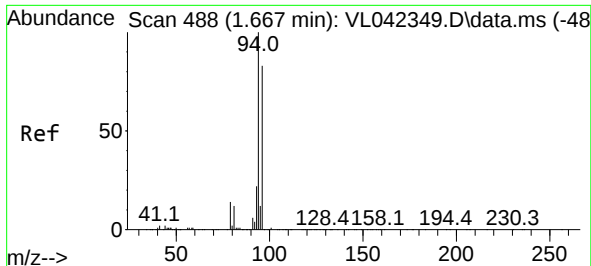
Tgt Ion: 51 Resp: 84256
Ion Ratio Lower Upper
51 100
67 1.9 16.2 24.4#



#4
Chloromethane
Concen: 0.645 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion: 50 Resp: 5131
Ion Ratio Lower Upper
50 100
52 31.2 24.7 37.1

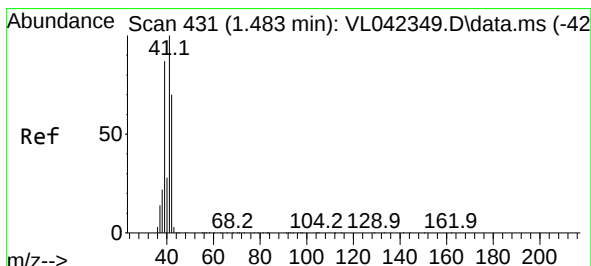
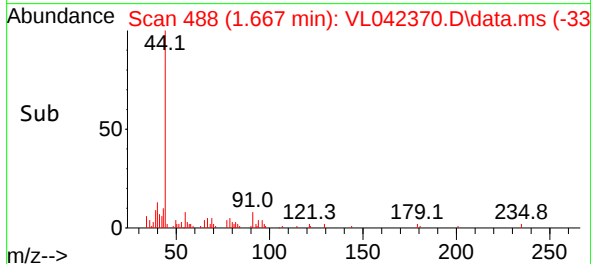
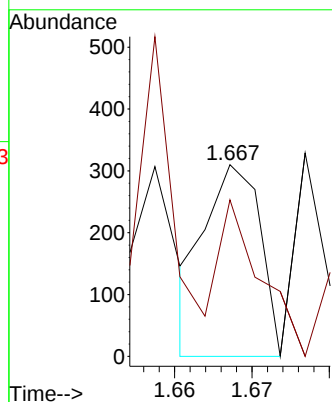
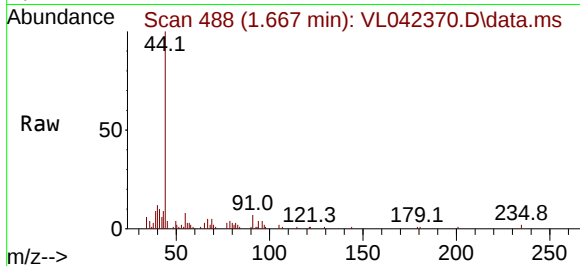




#6
Bromomethane
Concen: 0.041 ppbv
RT: 1.667 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

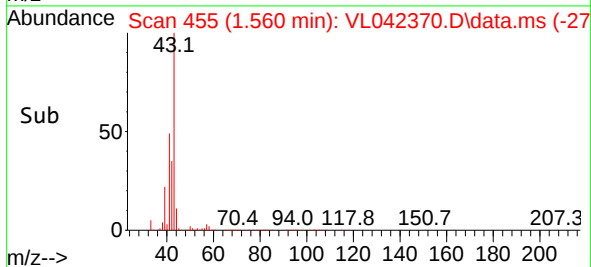
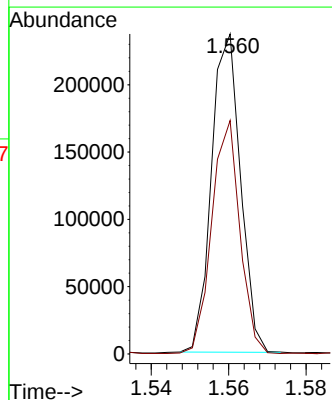
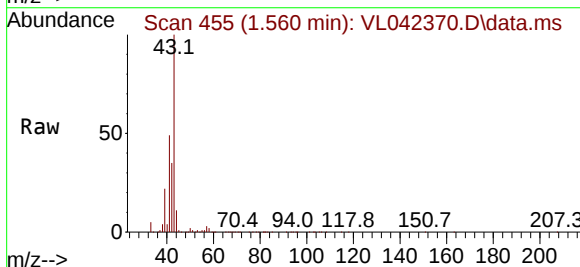
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

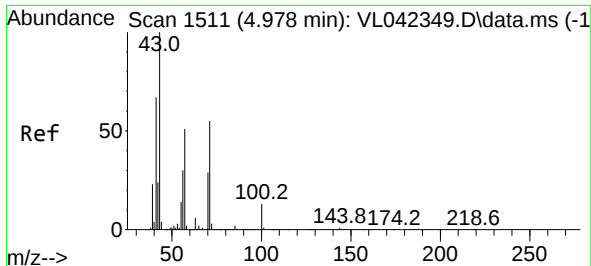
Tgt Ion: 94 Resp: 152
Ion Ratio Lower Upper
94 100
96 65.8 66.2 99.2#



#9
Propene
Concen: 14.118 ppbv
RT: 1.560 min Scan# 455
Delta R.T. 0.078 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion: 41 Resp: 123047
Ion Ratio Lower Upper
41 100
42 73.1 56.2 84.4





#10

Heptane

Concen: 4.816 ppbv

RT: 4.978 min Scan# 11

Delta R.T. 0.000 min

Lab File: VL042370.D

Acq: 17 Apr 2025 22:19

Instrument :

MSVOA_L

ClientSampleId :

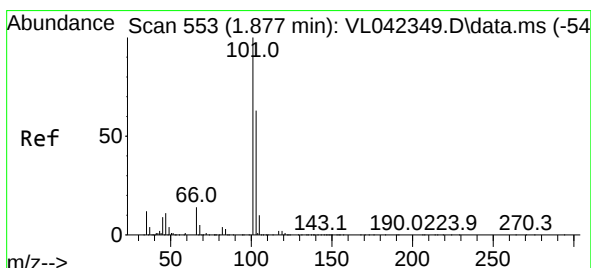
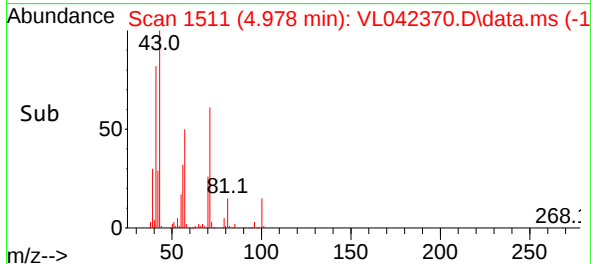
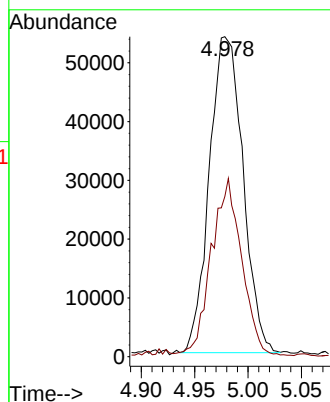
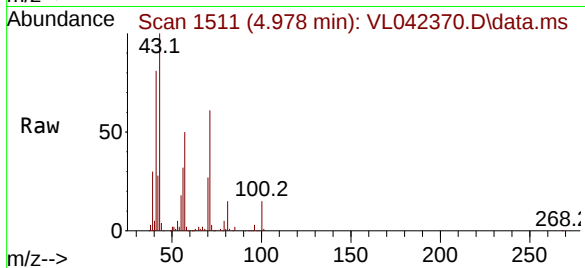
IA-B2-1-03312025

Tgt Ion: 43 Resp: 117936

Ion Ratio Lower Upper

43 100

57 50.5 39.9 59.9



#11

Trichlorofluoromethane

Concen: 0.252 ppbv

RT: 1.878 min Scan# 553

Delta R.T. 0.000 min

Lab File: VL042370.D

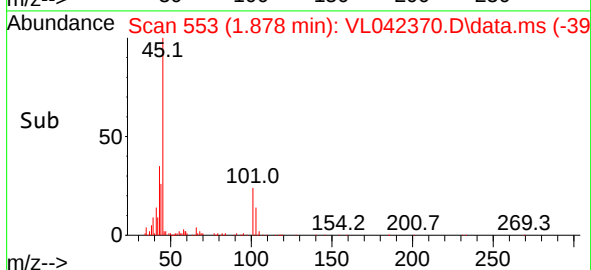
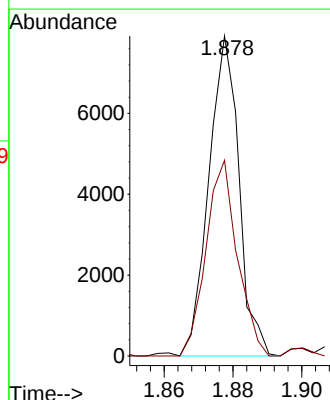
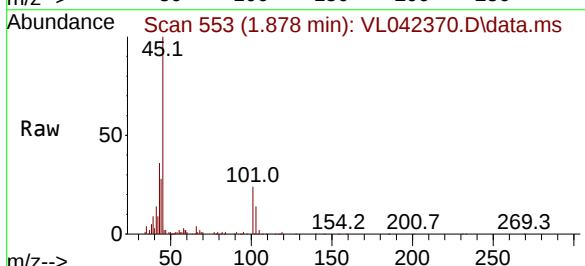
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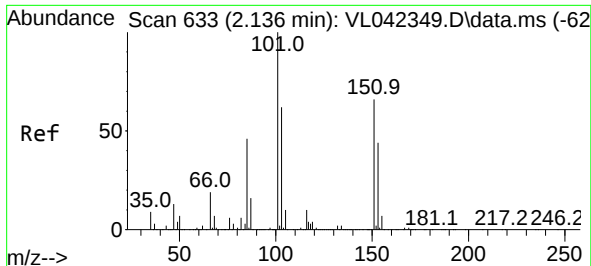
Tgt Ion:101 Resp: 4815

Ion Ratio Lower Upper

101 100

103 61.2 50.1 75.1

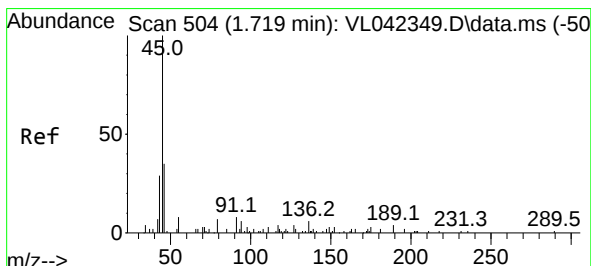
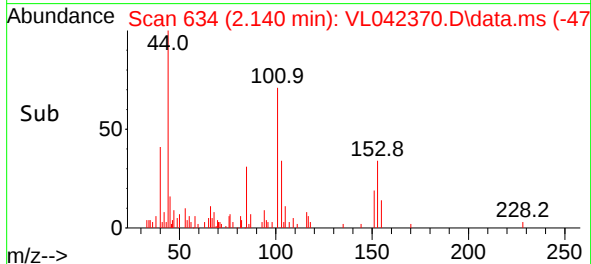
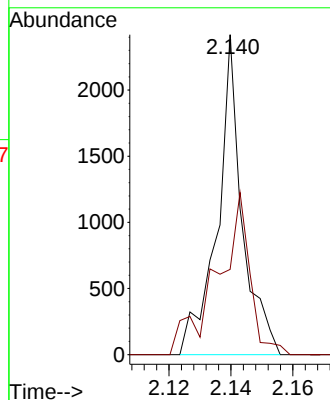
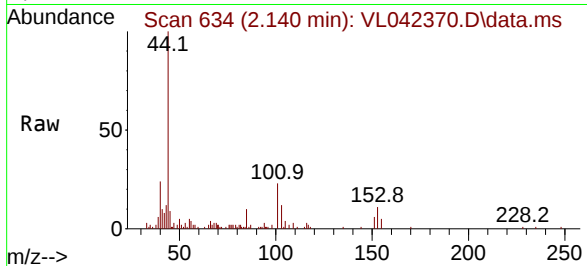




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.086 ppbv
RT: 2.140 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

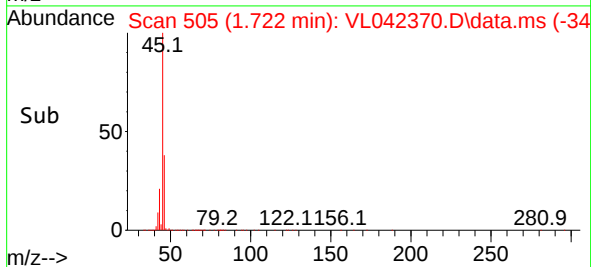
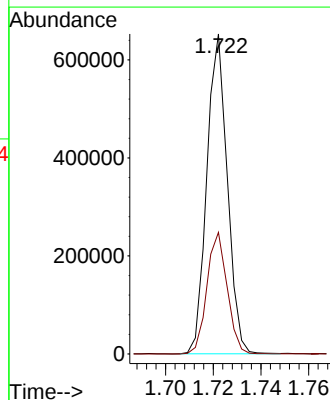
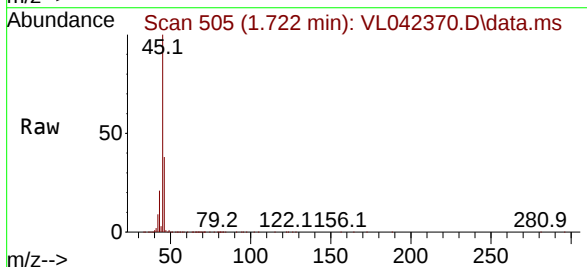
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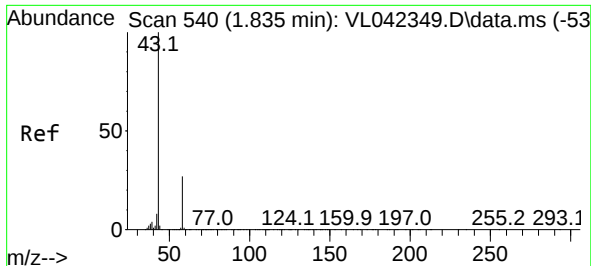
Tgt Ion:101 Resp: 1339
Ion Ratio Lower Upper
101 100
151 67.6 57.0 85.6



#13
Ethanol
Concen: 280.929 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion: 45 Resp: 389165
Ion Ratio Lower Upper
45 100
46 37.8 21.9 87.7

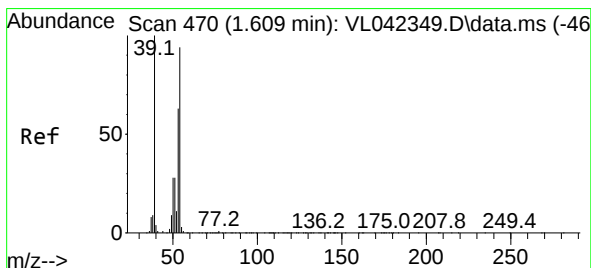
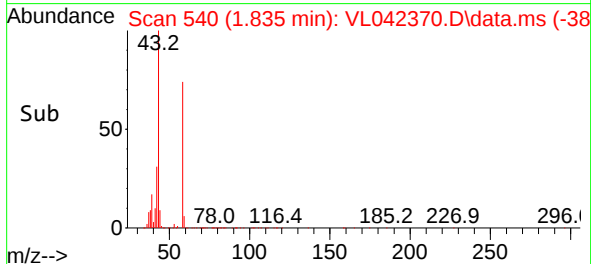
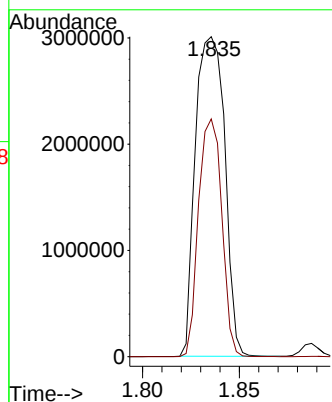
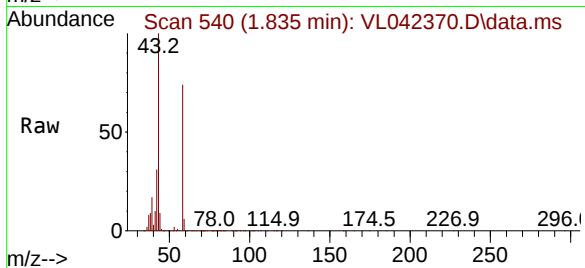




#15
Acetone
Concen: 170.726 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL042370.D
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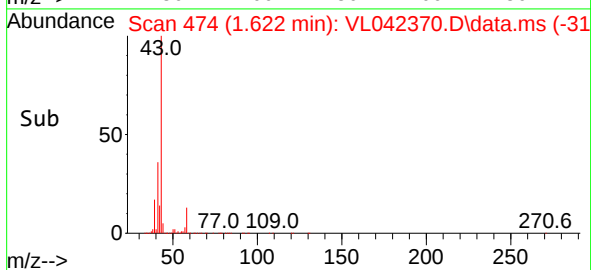
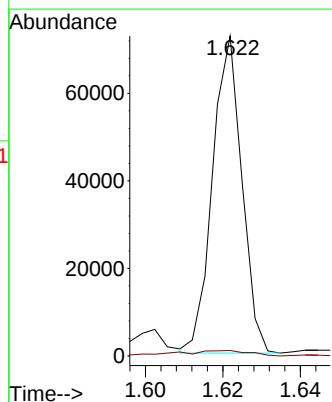
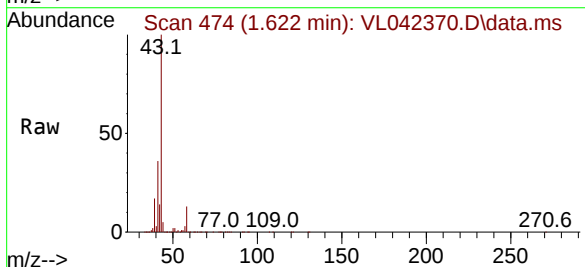
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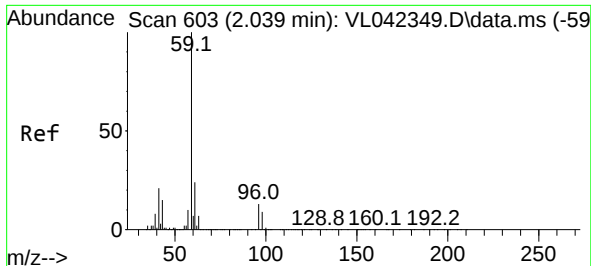
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Ion Ratio Lower Upper
43 100
58 59.0 22.4 33.6#



#16
1,3-Butadiene
Concen: 4.276 ppbv
RT: 1.622 min Scan# 474
Delta R.T. 0.013 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion: 39 Resp: 38083
Ion Ratio Lower Upper
39 100
54 4.9 64.9 97.3#





#17

tert-Butyl alcohol

Concen: 1.723 ppbv

RT: 2.272 min Scan# 61

Delta R.T. 0.233 min

Lab File: VL042370.D

Acq: 17 Apr 2025 22:19

Instrument :

MSVOA_L

ClientSampleId :

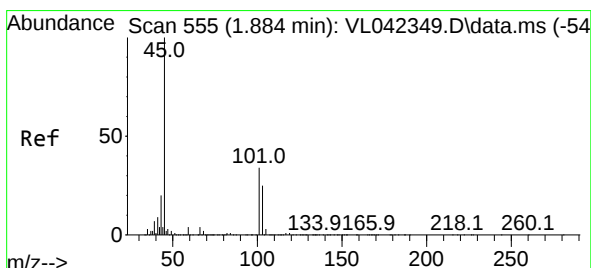
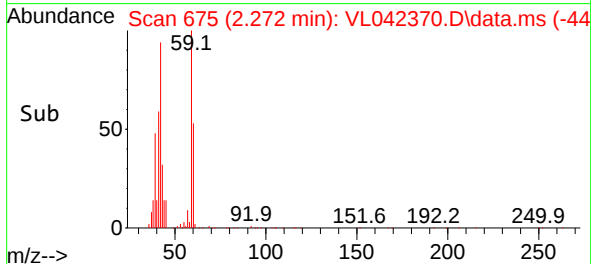
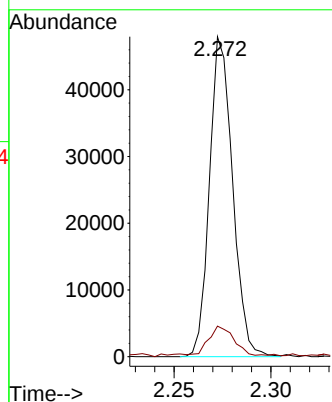
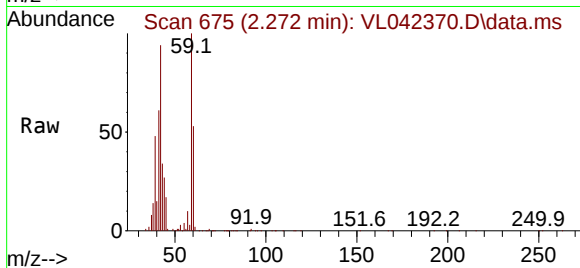
IA-B2-1-03312025

Tgt Ion: 59 Resp: 39766

Ion Ratio Lower Upper

59 100

57 10.5 8.7 13.1



#19

Isopropyl Alcohol

Concen: 36.656 ppbv

RT: 1.887 min Scan# 556

Delta R.T. 0.003 min

Lab File: VL042370.D

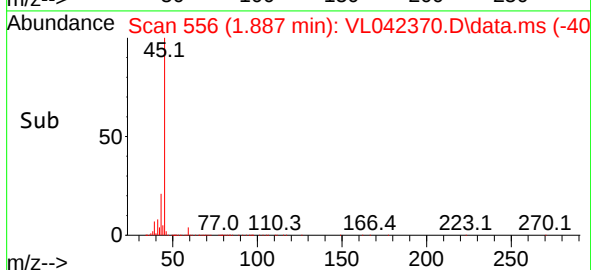
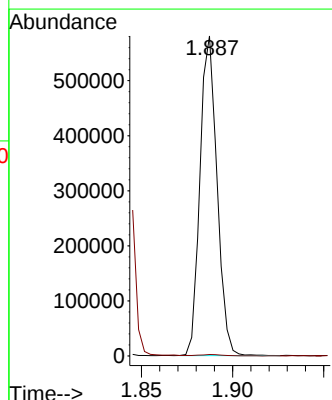
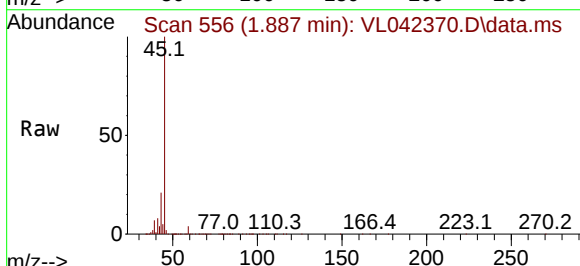
Acq: 17 Apr 2025 22:19

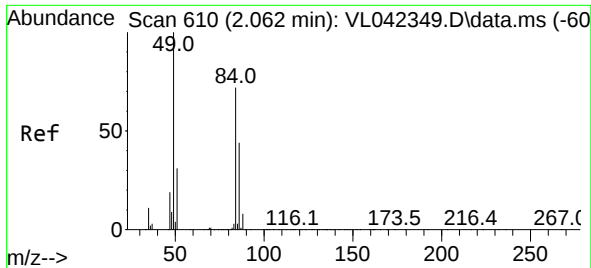
Tgt Ion: 45 Resp: 379189

Ion Ratio Lower Upper

45 100

58 0.0 34.5 51.7#

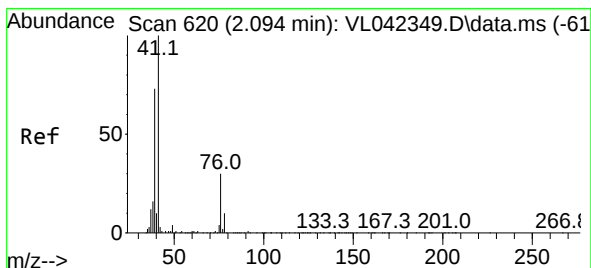
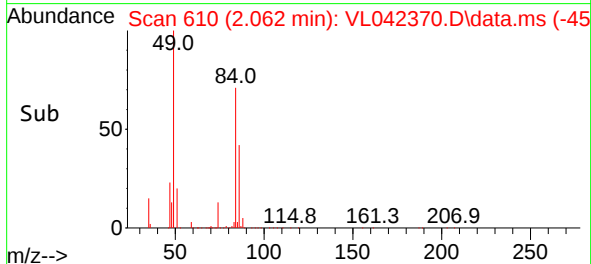
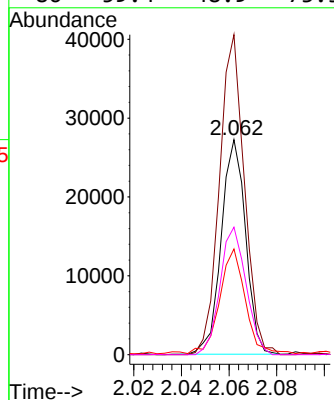
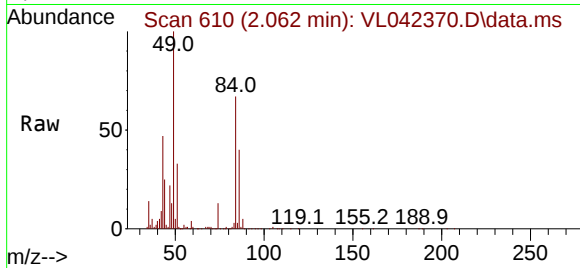




#20
Methylene Chloride
Concen: 2.648 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

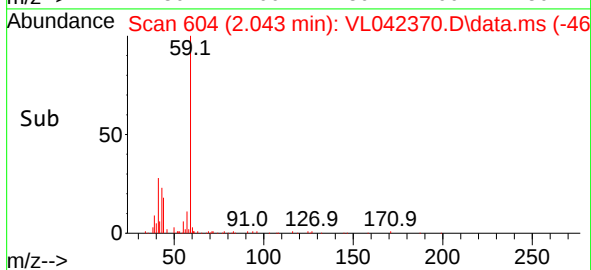
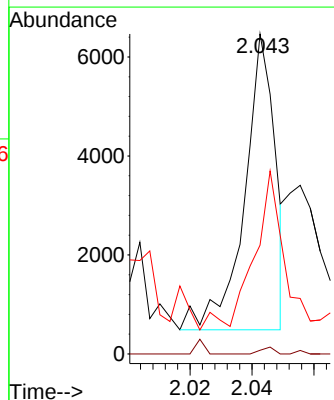
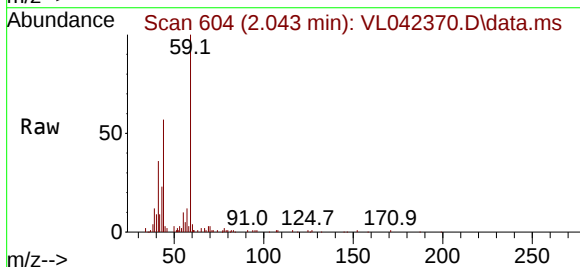
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

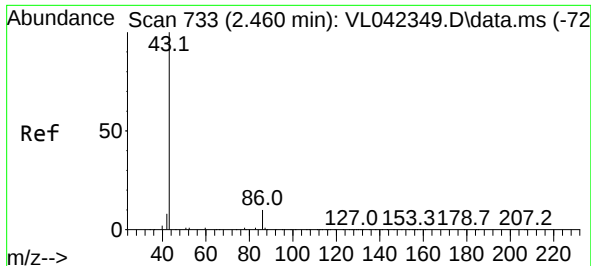
Tgt Ion:	84	Resp:	19314
Ion	Ratio	Lower	Upper
84	100		
49	149.1	111.6	167.4
51	48.0	35.1	52.7
86	59.4	48.9	73.3



#21
Allyl Chloride
Concen: 0.323 ppbv
RT: 2.043 min Scan# 604
Delta R.T. -0.052 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion:	41	Resp:	4157
Ion	Ratio	Lower	Upper
41	100		
76	2.7	24.8	37.2#
39	0.0	60.6	90.8#



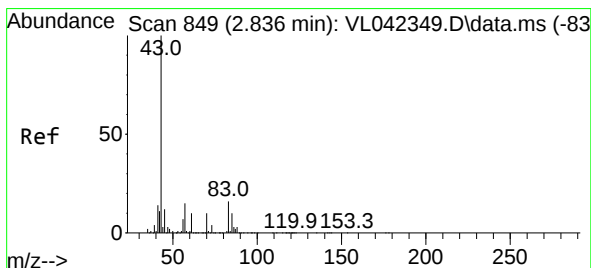
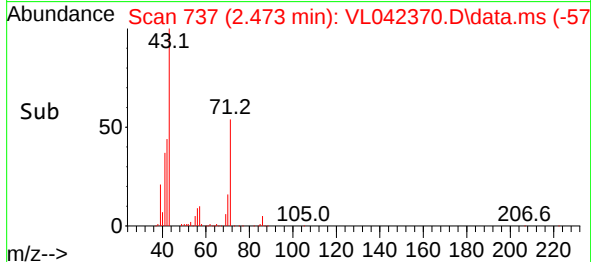
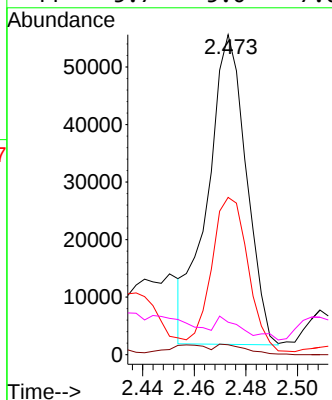
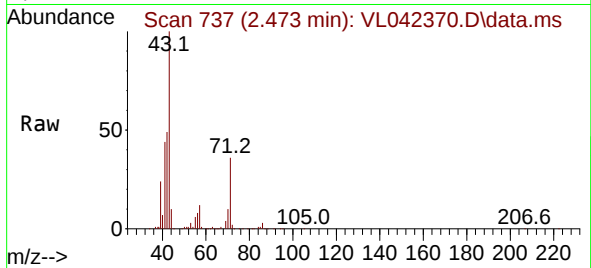


#23
 Vinyl Acetate
 Concen: 7.435 ppbv
 RT: 2.473 min Scan# 71
 Delta R.T. 0.013 min
 Lab File: VL042370.D
 Acq: 17 Apr 2025 22:19

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-1-03312025

Tgt Ion: 43 Resp: 56038

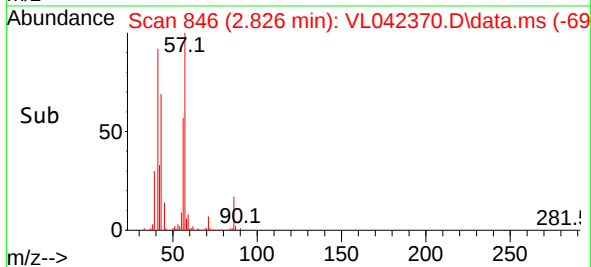
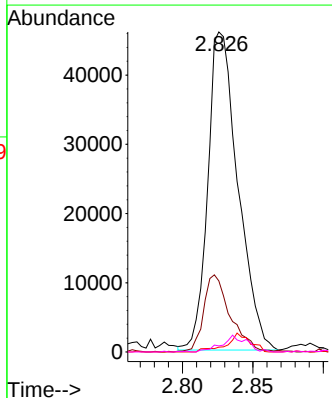
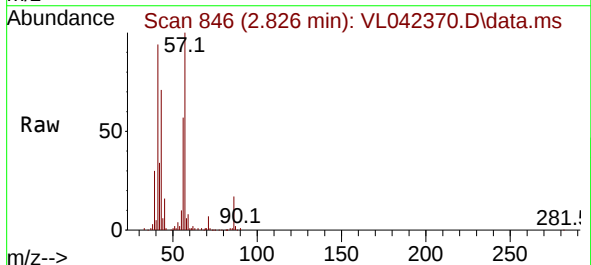
Ion	Ratio	Lower	Upper
43	100		
86	3.0	6.5	9.7#
42	49.7	7.8	11.8#
44	5.7	5.0	7.6

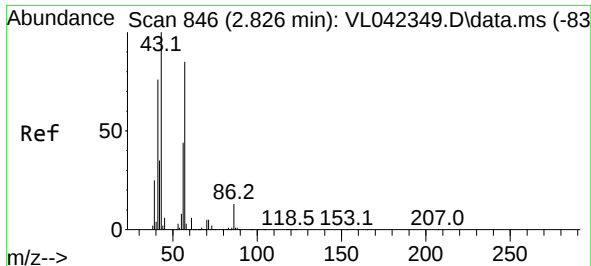


#25
 Ethyl Acetate
 Concen: 1.494 ppbv
 RT: 2.826 min Scan# 846
 Delta R.T. -0.010 min
 Lab File: VL042370.D
 Acq: 17 Apr 2025 22:19

Tgt Ion: 43 Resp: 68589

Ion	Ratio	Lower	Upper
43	100		
45	21.6	8.3	12.5#
61	4.6	7.3	10.9#
70	4.4	7.0	10.6#

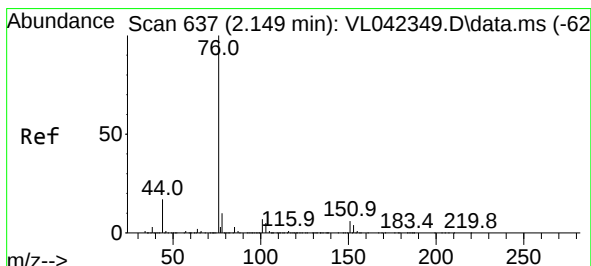
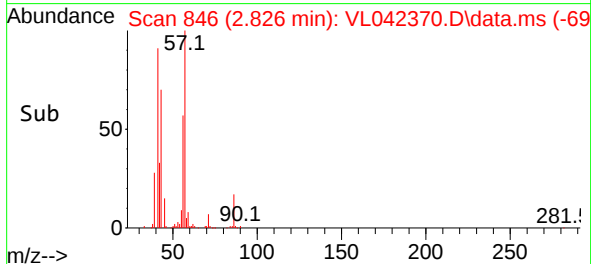
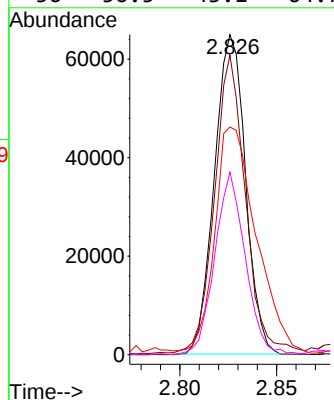
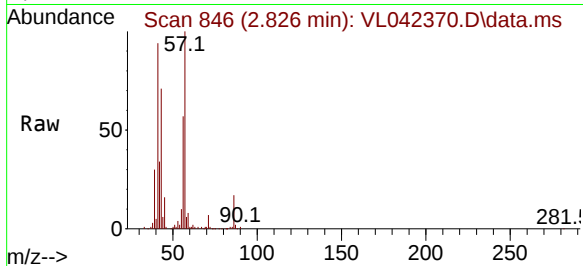




#26
Hexane
Concen: 3.893 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

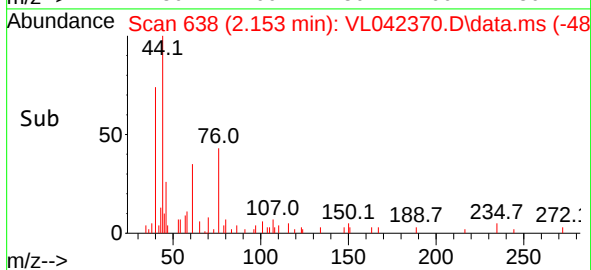
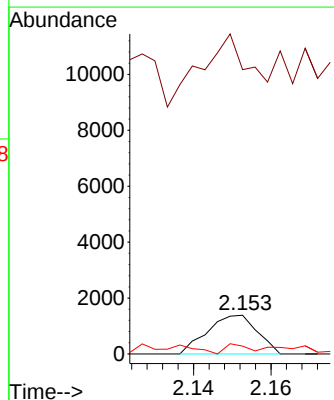
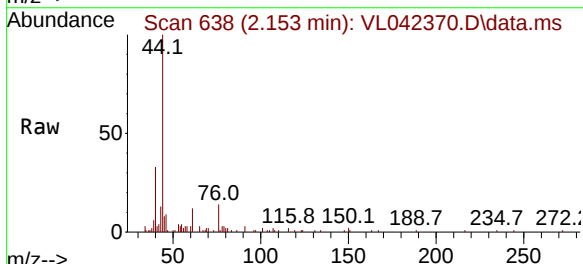
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

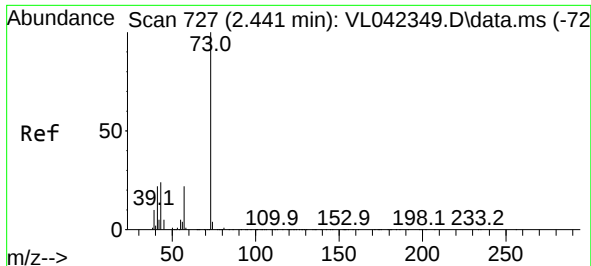
Tgt Ion:	57	Resp:	72332
Ion	Ratio	Lower	Upper
57	100		
41	93.6	77.9	116.9
43	95.6	208.4	312.6#
56	56.5	43.1	64.7



#27
Carbon Disulfide
Concen: 0.062 ppbv
RT: 2.153 min Scan# 638
Delta R.T. 0.003 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion:	76	Resp:	1238
Ion	Ratio	Lower	Upper
76	100		
44	0.0	15.5	23.3#
78	35.7	9.3	13.9#

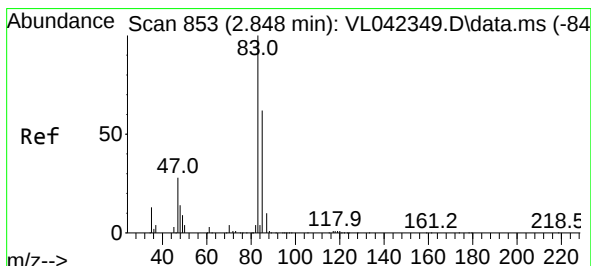
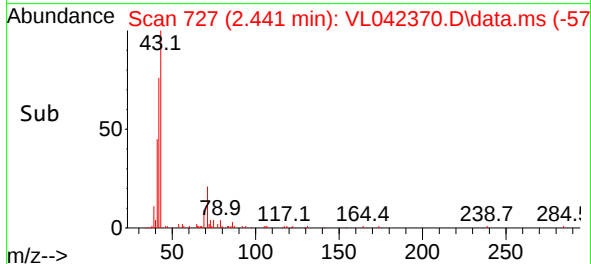
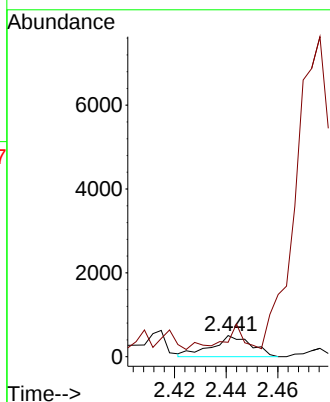
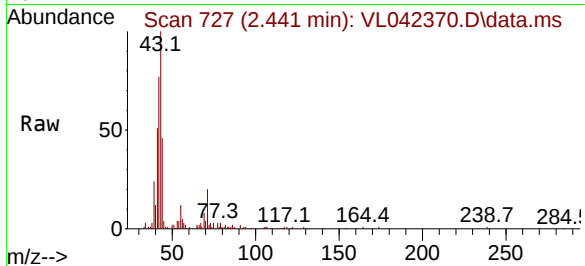




#28
Methyl tert-Butyl Ether
Concen: 0.044 ppbv
RT: 2.441 min Scan# 71
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

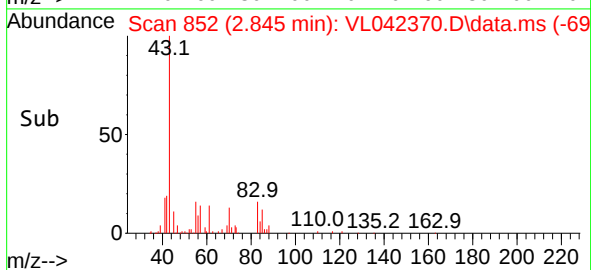
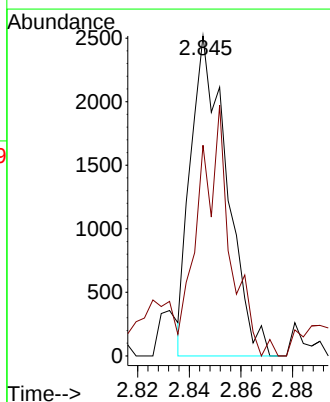
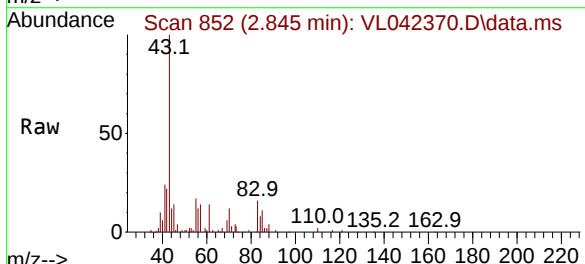
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

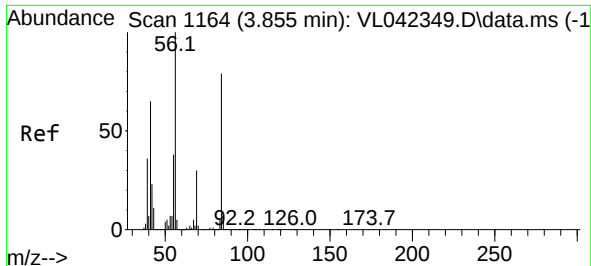
Tgt Ion: 73 Resp: 537
Ion Ratio Lower Upper
73 100
57 0.0 21.3 31.9#



#29
Chloroform
Concen: 0.093 ppbv
RT: 2.845 min Scan# 852
Delta R.T. -0.003 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion: 83 Resp: 2448
Ion Ratio Lower Upper
83 100
85 65.8 50.0 75.0

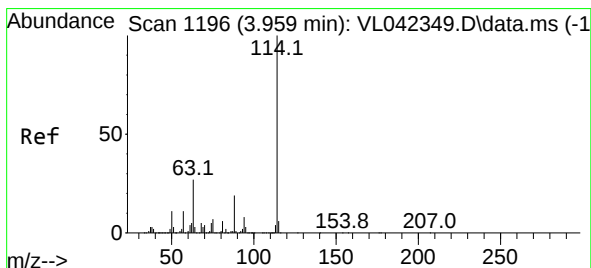
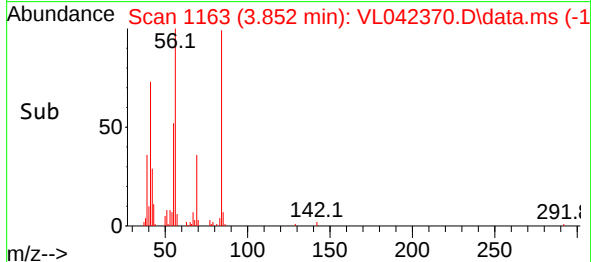
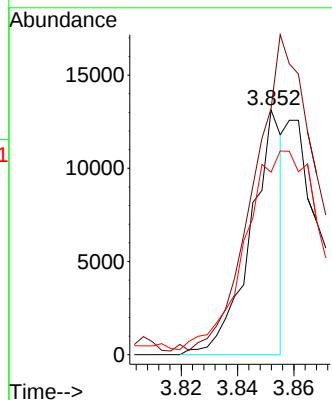
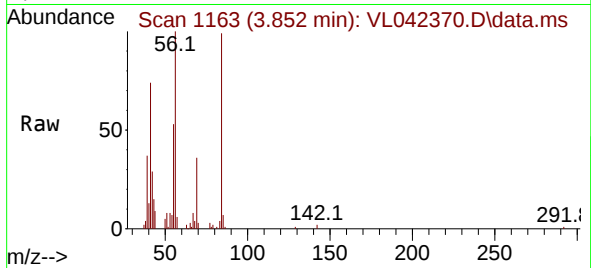




#30
Cyclohexane
Concen: 0.681 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. -0.003 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

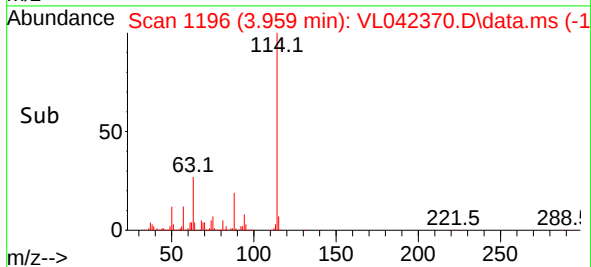
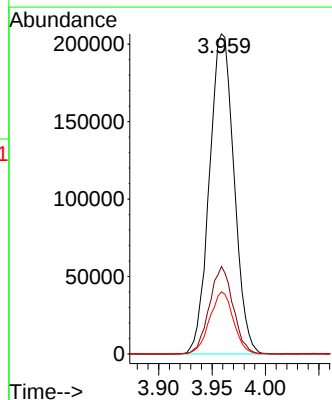
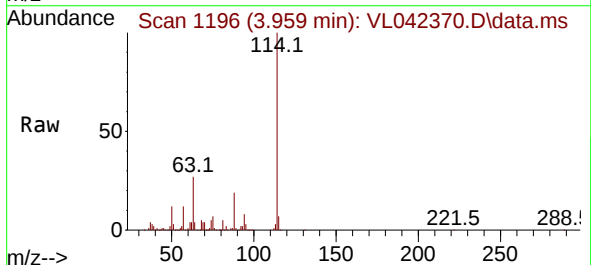
Instrument : MSVOA_L
ClientSampleId : IA-B2-1-03312025

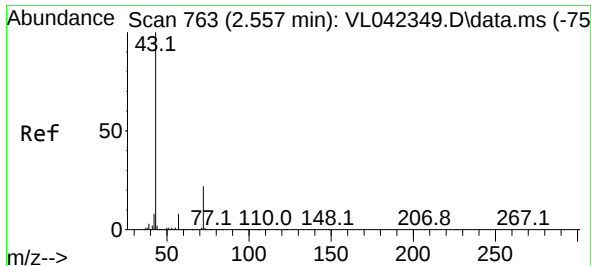
Tgt Ion: 84 Resp: 10233
Ion Ratio Lower Upper
84 100
56 269.5 101.0 151.4#
41 209.1 67.4 101.0#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion: 114 Resp: 331268
Ion Ratio Lower Upper
114 100
63 26.3 21.8 32.6
88 18.8 15.5 23.3

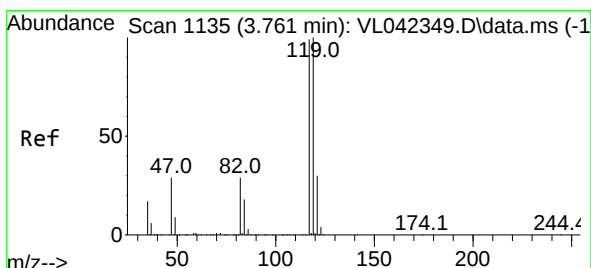
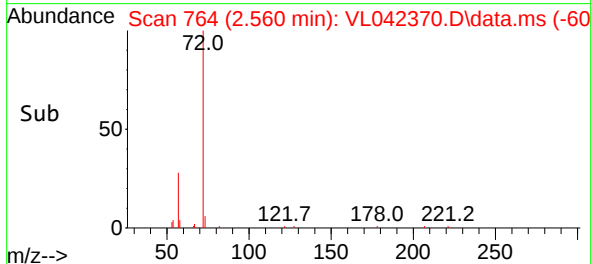
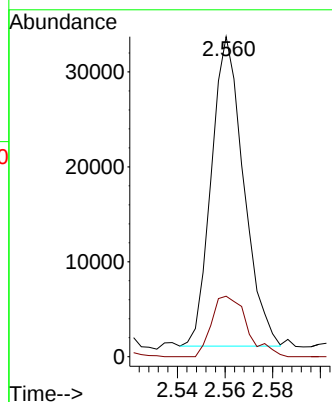
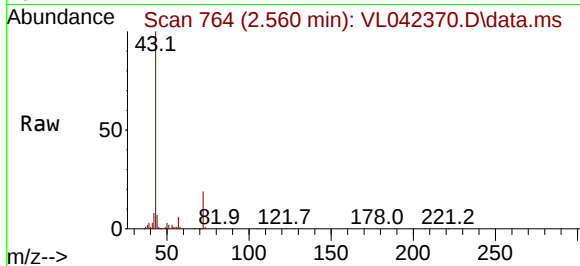




#34
2-Butanone
Concen: 1.172 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.003 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

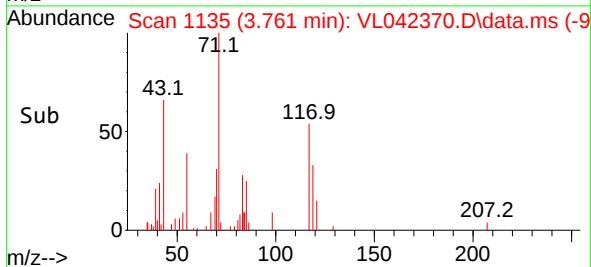
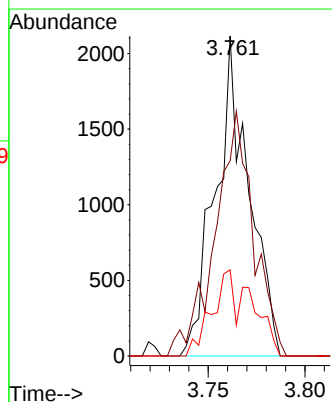
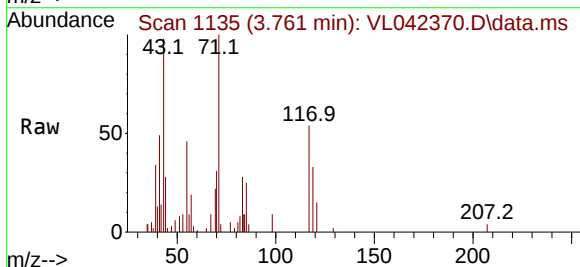
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

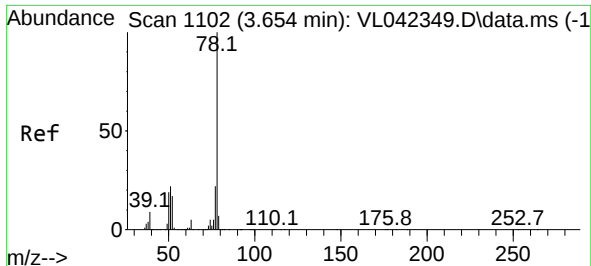
Tgt Ion: 43 Resp: 30710
Ion Ratio Lower Upper
43 100
72 21.4 18.2 27.2



#35
Carbon Tetrachloride
Concen: 0.085 ppbv
RT: 3.761 min Scan# 1135
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion: 117 Resp: 2547
Ion Ratio Lower Upper
117 100
119 56.7 80.5 120.7#
121 26.9 24.2 36.2

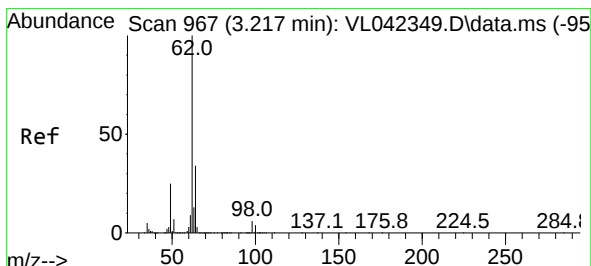
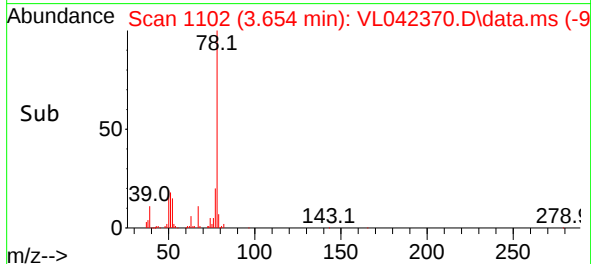
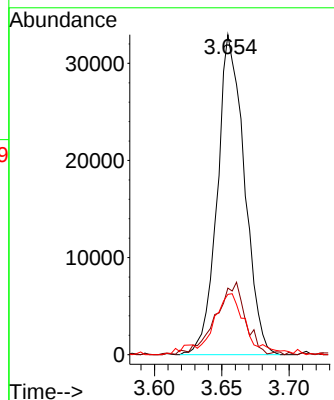
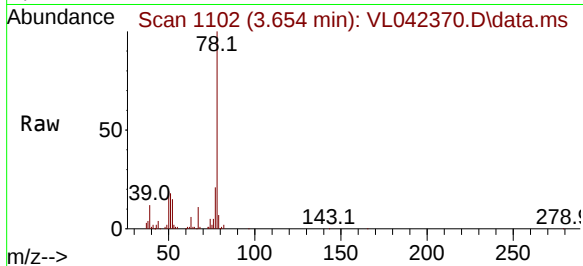




#36
Benzene
Concen: 1.289 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

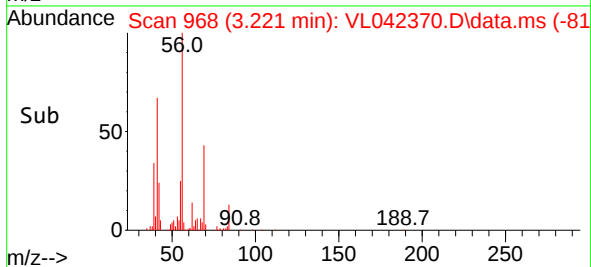
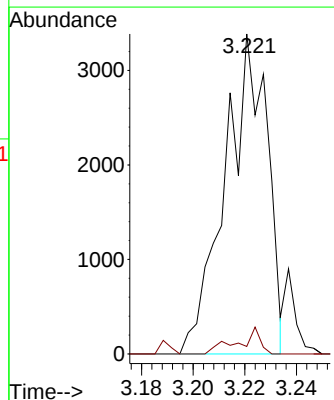
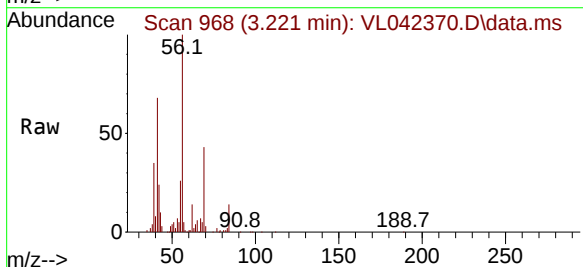
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

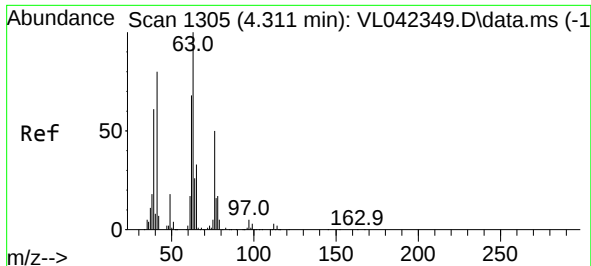
Tgt Ion: 78 Resp: 46043
Ion Ratio Lower Upper
78 100
77 20.0 17.4 26.0
50 17.7 15.5 23.3



#37
1,2-Dichloroethane
Concen: 0.179 ppbv
RT: 3.221 min Scan# 968
Delta R.T. 0.003 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion: 62 Resp: 3831
Ion Ratio Lower Upper
62 100
98 4.3 5.1 7.7#





#39

1,2-Dichloropropane

Concen: 6.535 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. -0.353 min

Lab File: VL042370.D

Acq: 17 Apr 2025 22:19

Instrument :

MSVOA_L

ClientSampleId :

IA-B2-1-03312025

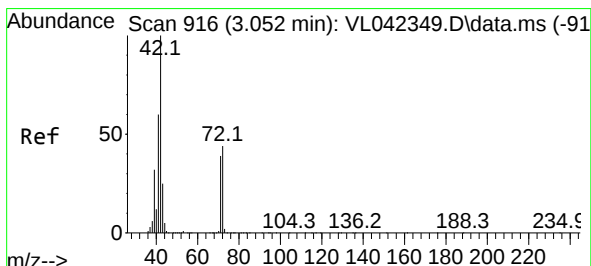
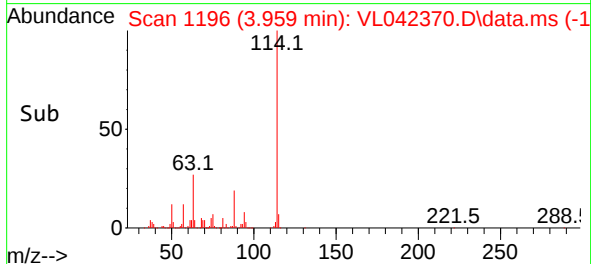
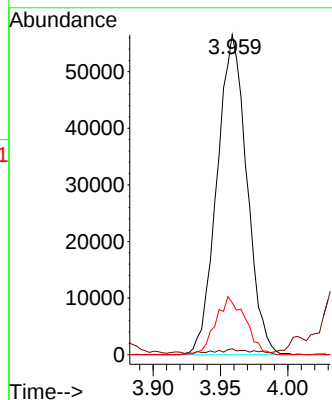
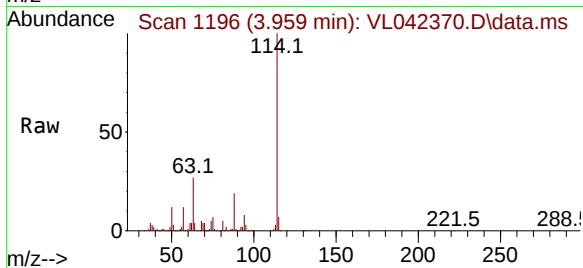
Tgt Ion: 63 Resp: 87012

Ion Ratio Lower Upper

63 100

41 1.0 64.2 96.2#

62 16.3 54.3 81.5#



#41

Tetrahydrofuran

Concen: 0.126 ppbv

RT: 3.062 min Scan# 919

Delta R.T. 0.010 min

Lab File: VL042370.D

Acq: 17 Apr 2025 22:19

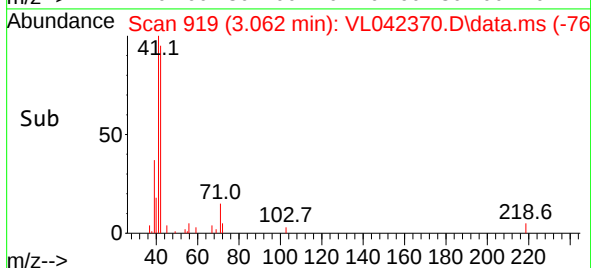
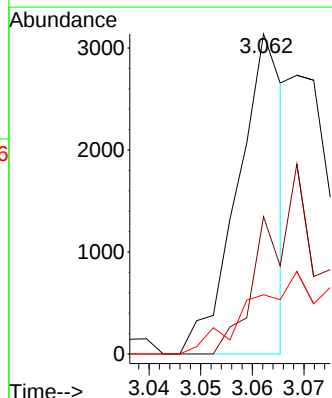
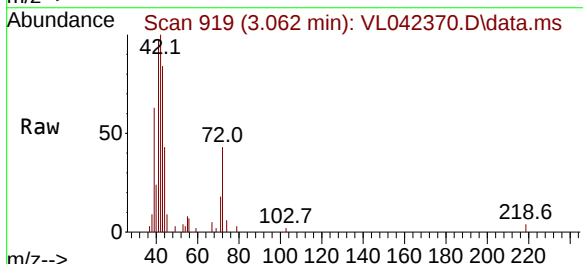
Tgt Ion: 42 Resp: 1920

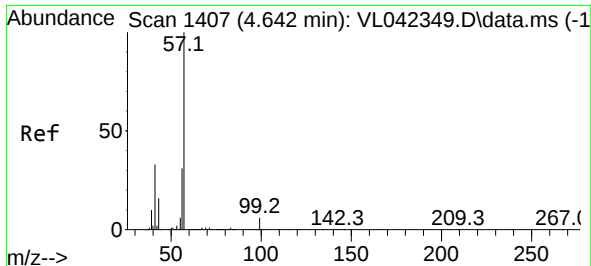
Ion Ratio Lower Upper

42 100

72 0.0 32.3 48.5#

71 0.0 31.4 47.2#

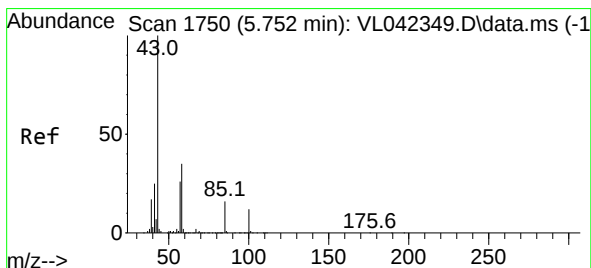
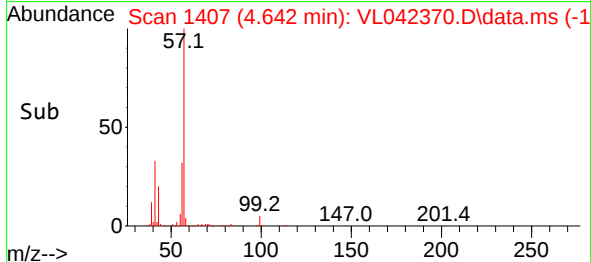
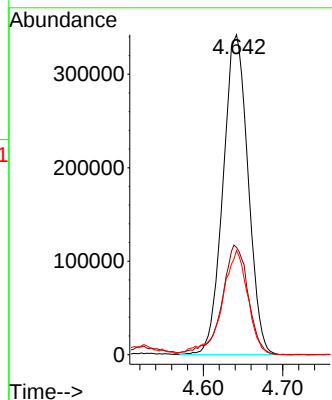
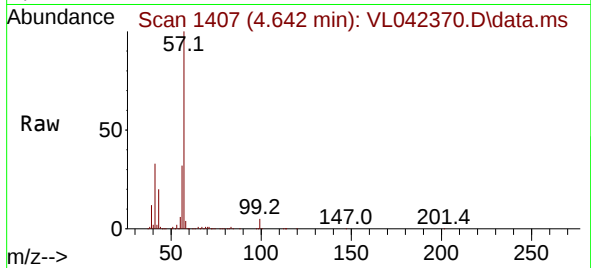




#44
2,2,4-Trimethylpentane
Concen: 12.103 ppbv
RT: 4.642 min Scan# 1407
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

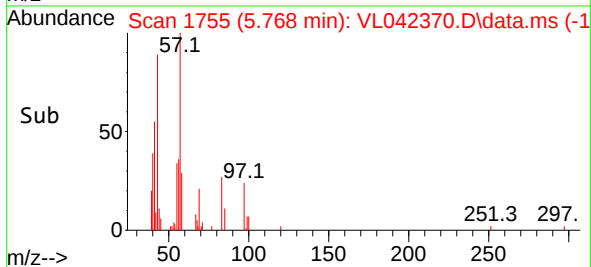
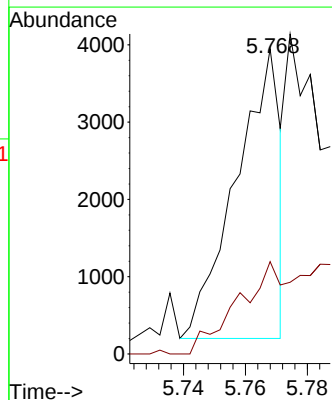
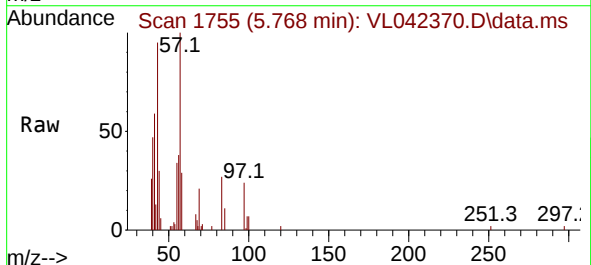
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

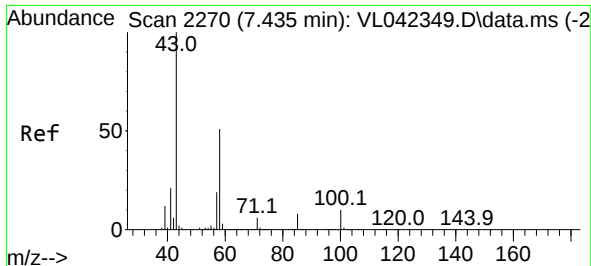
Tgt Ion:	57	Resp:	746896
Ion	Ratio	Lower	Upper
57	100		
41	36.1	27.2	40.8
56	33.9	25.7	38.5



#50
4-Methyl-2-Pentanone
Concen: 0.085 ppbv
RT: 5.768 min Scan# 1755
Delta R.T. 0.016 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion:	43	Resp:	3714
Ion	Ratio	Lower	Upper
43	100		
58	85.7	28.6	43.0#

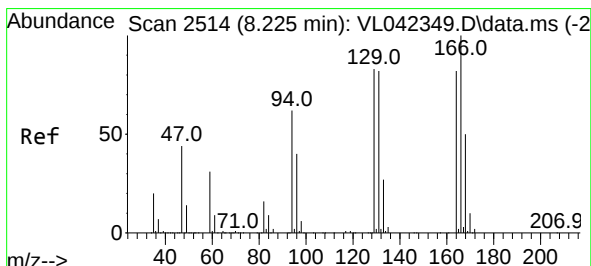
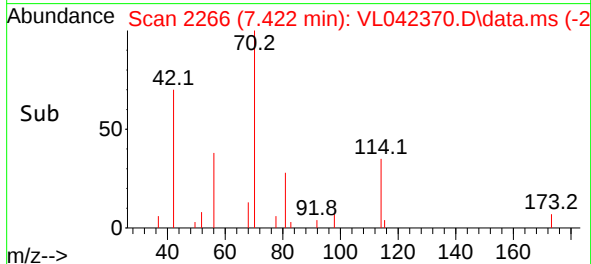
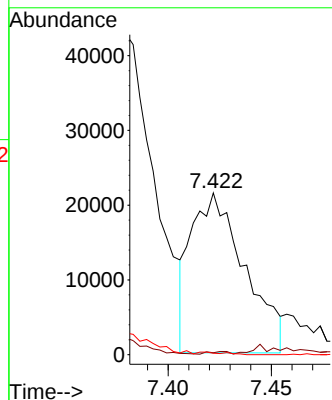
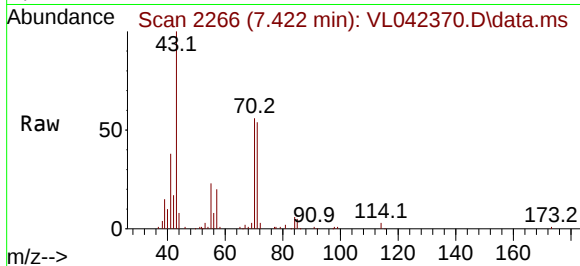




#51
2-Hexanone
Concen: 0.988 ppbv
RT: 7.422 min Scan# 21
Delta R.T. -0.013 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

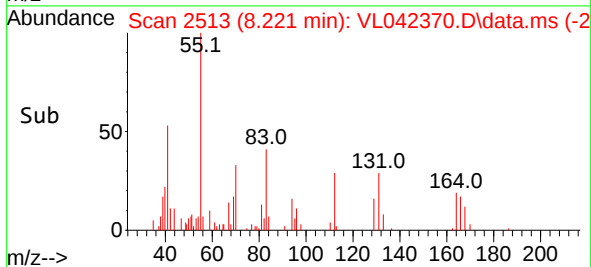
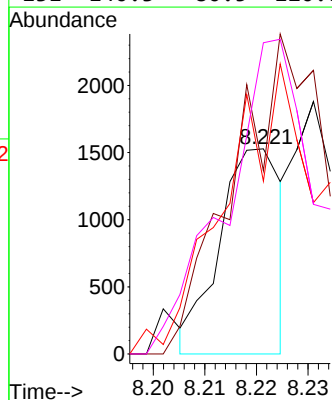
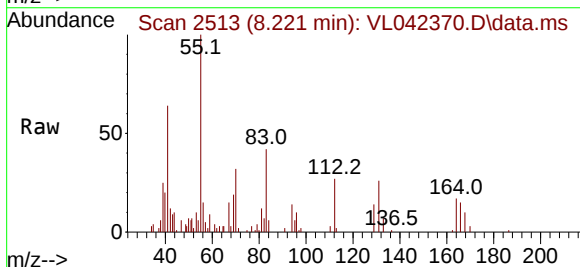
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

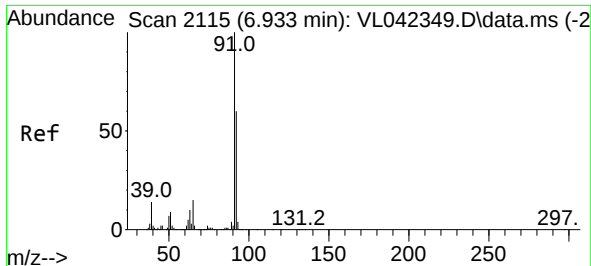
Tgt Ion: 43 Resp: 38587
Ion Ratio Lower Upper
43 100
58 0.0 40.2 60.4#
98 0.0 0.1 0.1#



#52
Tetrachloroethene
Concen: 0.092 ppbv
RT: 8.221 min Scan# 2513
Delta R.T. -0.003 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion: 164 Resp: 1269
Ion Ratio Lower Upper
164 100
166 86.7 98.2 147.2#
129 70.5 81.8 122.8#
131 140.3 80.5 120.7#

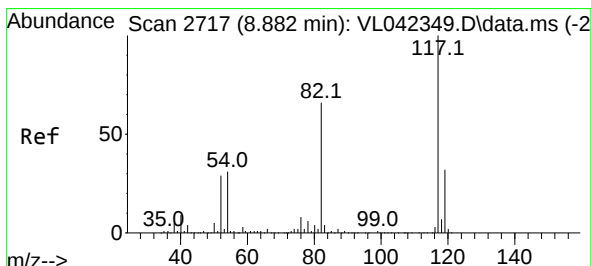
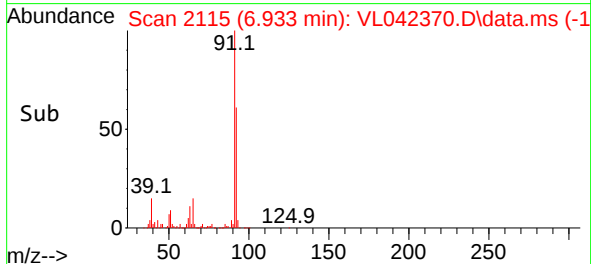
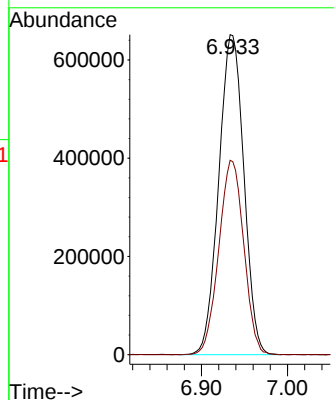
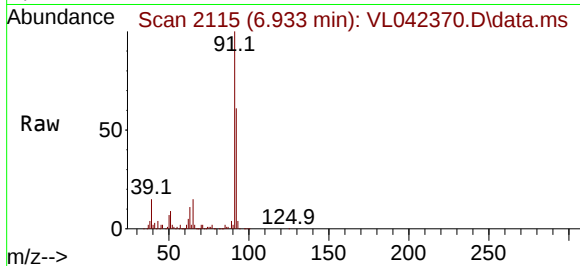




#53
Toluene
Concen: 30.789 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

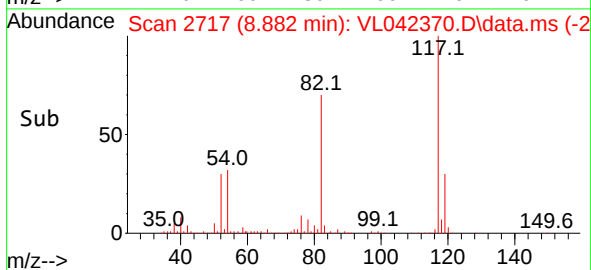
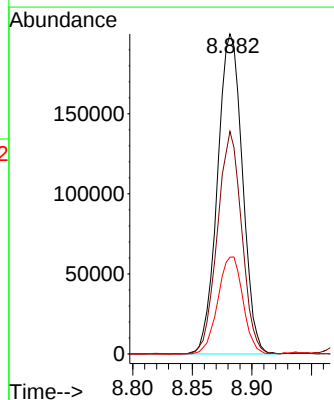
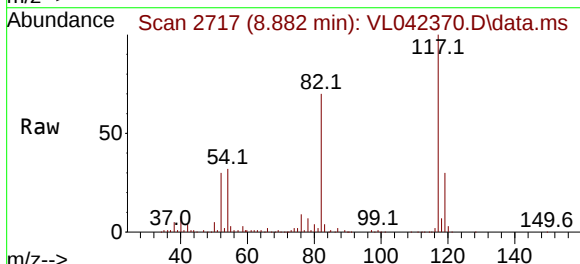
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

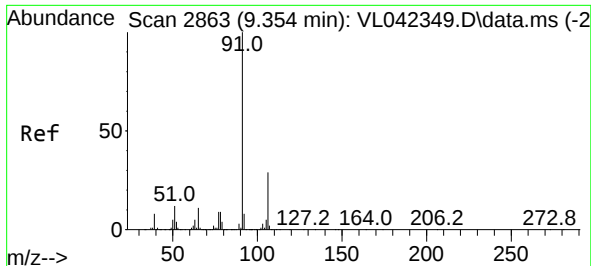
Tgt Ion: 91 Resp: 1320170
Ion Ratio Lower Upper
91 100
92 60.4 48.2 72.4



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2717
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion: 117 Resp: 291013
Ion Ratio Lower Upper
117 100
82 67.8 57.8 86.6
119 30.5 25.2 37.8

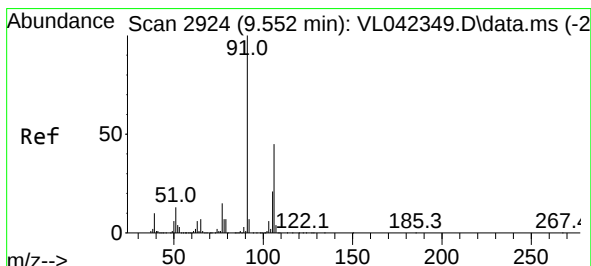
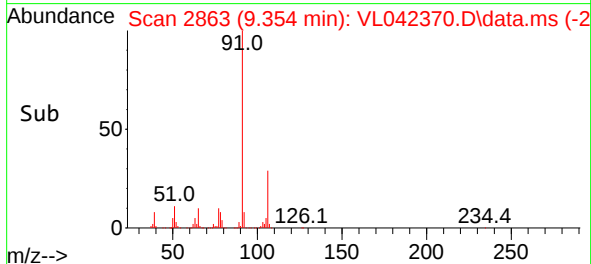
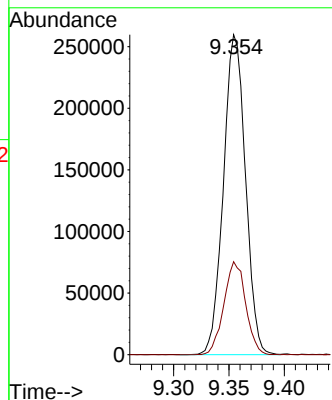
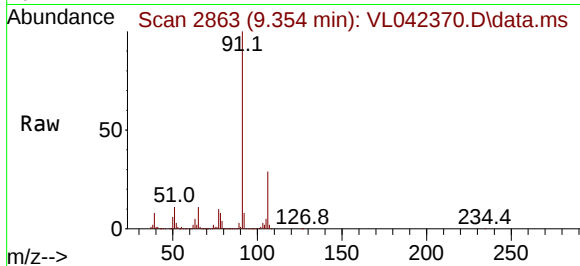




#58
Ethyl Benzene
Concen: 6.245 ppbv
RT: 9.354 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

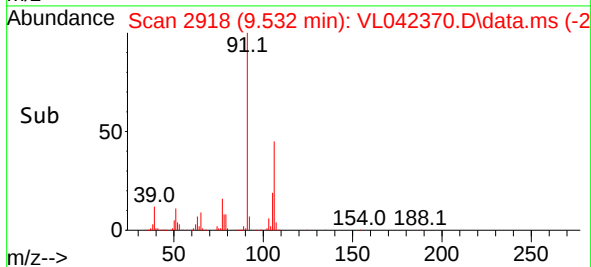
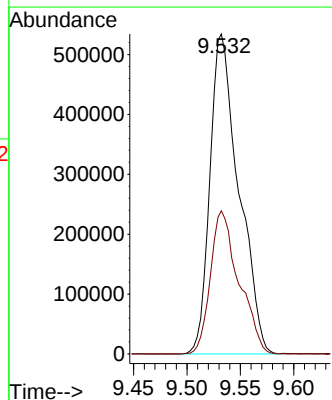
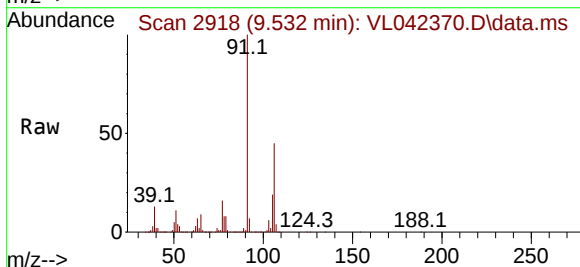
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

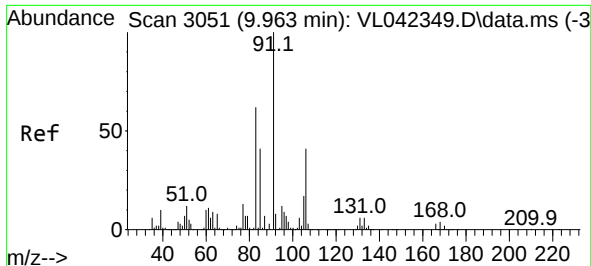
Tgt Ion: 91 Resp: 360069
Ion Ratio Lower Upper
91 100
106 29.1 23.0 34.4



#59
m/p-Xylene
Concen: 21.619 ppbv
RT: 9.532 min Scan# 2918
Delta R.T. -0.019 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion: 91 Resp: 1004159
Ion Ratio Lower Upper
91 100
106 44.2 35.4 53.2

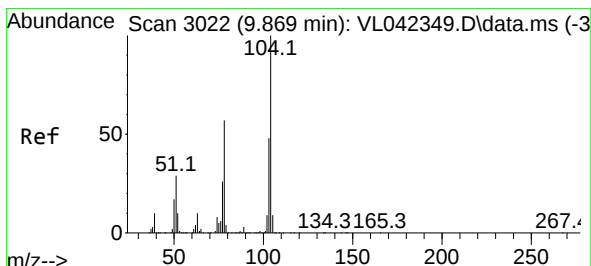
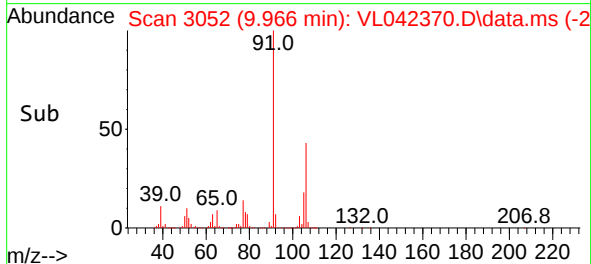
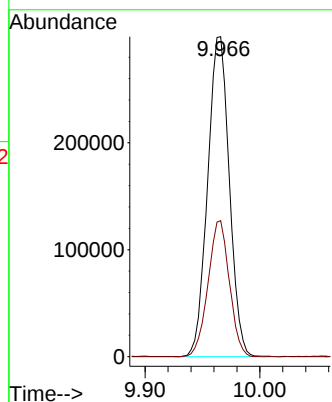
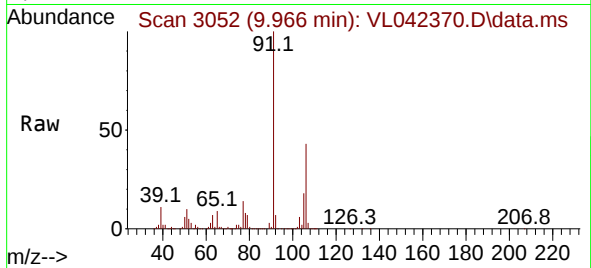




#60
o-Xylene
Concen: 8.410 ppbv
RT: 9.966 min Scan# 3051
Delta R.T. 0.003 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

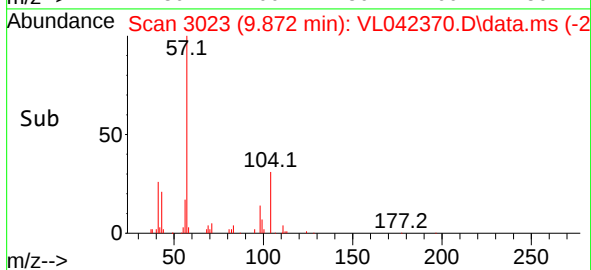
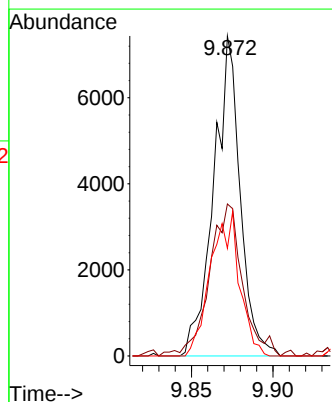
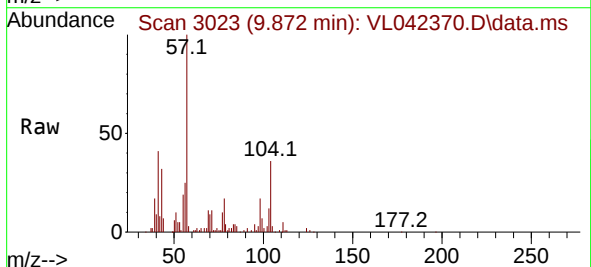
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

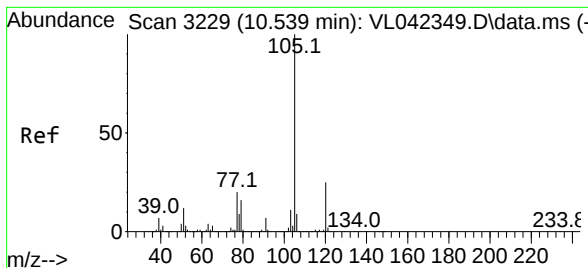
Tgt Ion: 91 Resp: 393388
Ion Ratio Lower Upper
91 100
106 41.9 21.1 63.4



#61
Styrene
Concen: 0.376 ppbv
RT: 9.872 min Scan# 3023
Delta R.T. 0.003 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion: 104 Resp: 8391
Ion Ratio Lower Upper
104 100
78 60.3 44.6 66.8
103 49.1 37.4 56.0





#62

Isopropylbenzene

Concen: 0.575 ppbv

RT: 10.539 min Scan# 31

Delta R.T. 0.000 min

Lab File: VL042370.D

Acq: 17 Apr 2025 22:19

Instrument :

MSVOA_L

ClientSampleId :

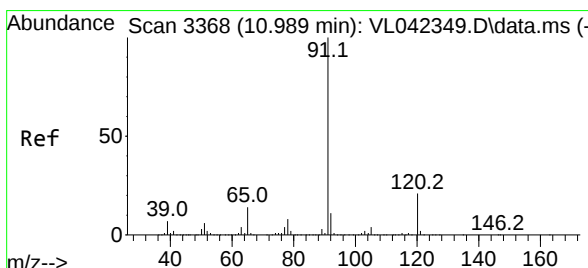
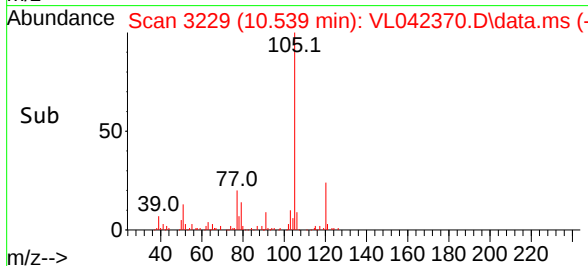
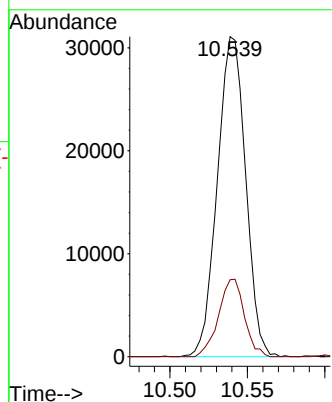
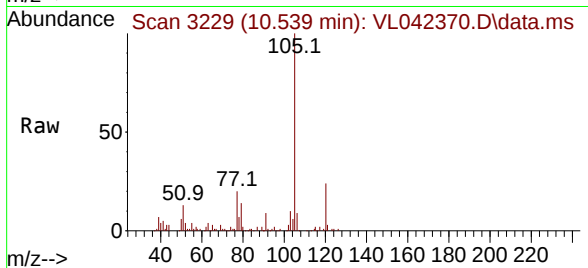
IA-B2-1-03312025

Tgt Ion:105 Resp: 39493

Ion Ratio Lower Upper

105 100

120 22.1 19.8 29.8



#64

n-propylbenzene

Concen: 1.858 ppbv

RT: 10.989 min Scan# 3368

Delta R.T. 0.000 min

Lab File: VL042370.D

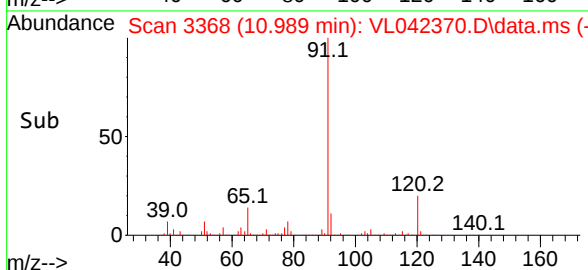
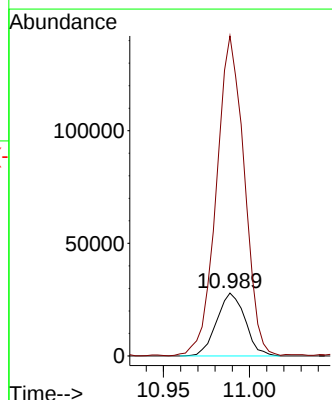
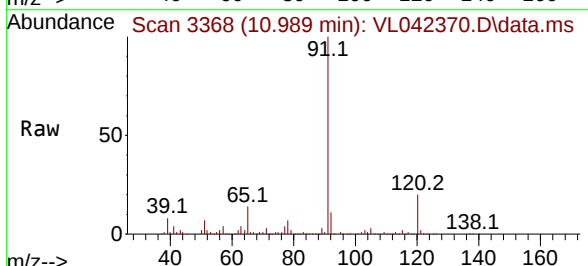
Acq: 17 Apr 2025 22:19

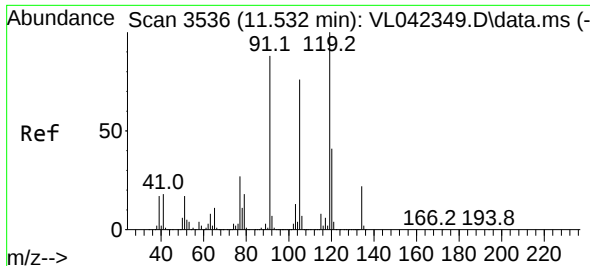
Tgt Ion:120 Resp: 32073

Ion Ratio Lower Upper

120 100

91 500.9 392.4 588.6

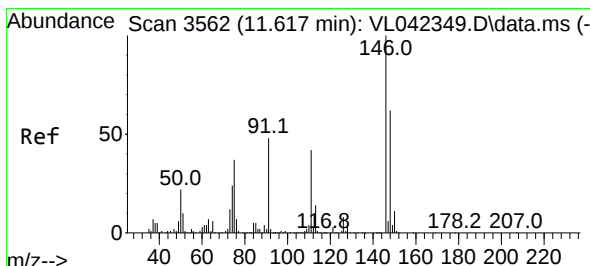
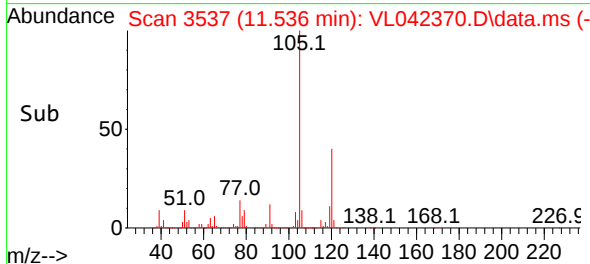
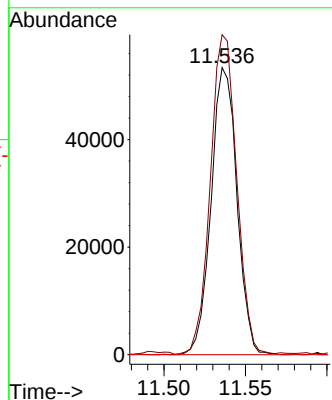
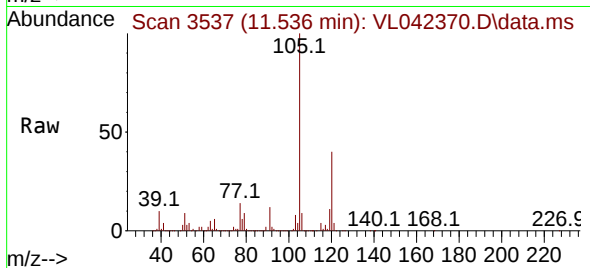




#65
tert-Butylbenzene
Concen: 0.932 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. 0.003 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

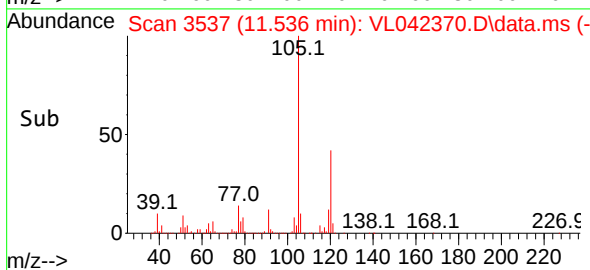
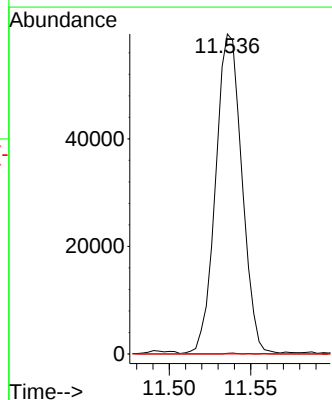
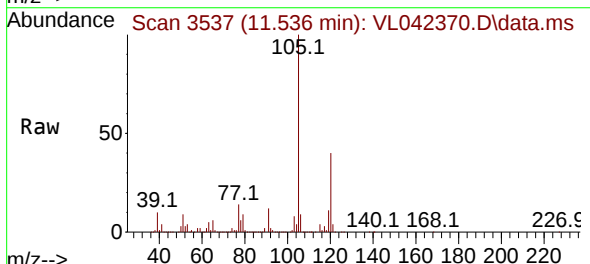
Instrument :
MSVOA_1
ClientSampleId :
IA-B2-1-03312025

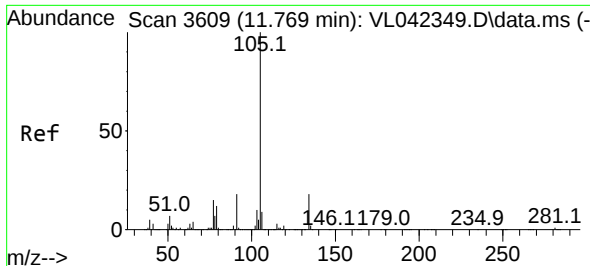
Tgt Ion:119 Resp: 58794
Ion Ratio Lower Upper
119 100
91 113.4 74.6 111.8#
134 0.0 18.8 28.2#



#66
Benzyl Chloride
Concen: 9.598 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. -0.081 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion: 91 Resp: 66566
Ion Ratio Lower Upper
91 100
126 0.1 11.8 17.6#
128 0.0 4.5 6.7#





#67

sec-Butylbenzene

Concen: 0.128 ppbv

RT: 11.769 min Scan# 3609

Delta R.T. 0.000 min

Lab File: VL042370.D

Acq: 17 Apr 2025 22:19

Instrument :

MSVOA_L

ClientSampleId :

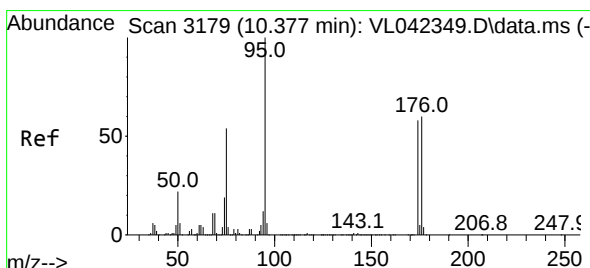
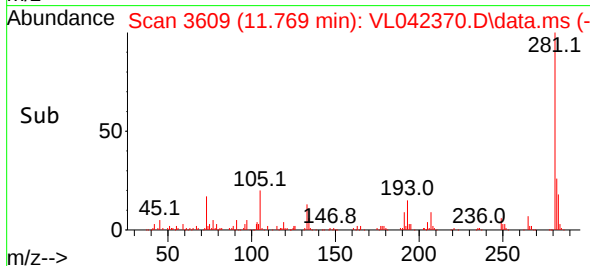
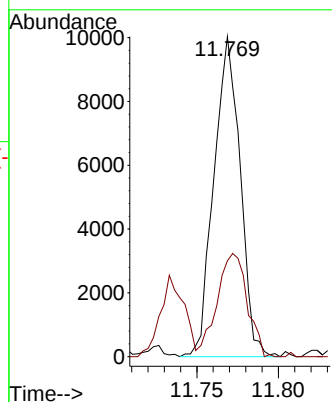
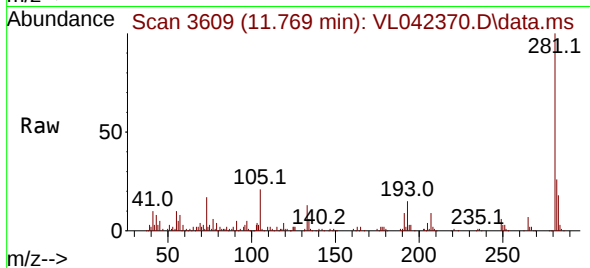
IA-B2-1-03312025

Tgt Ion:105 Resp: 11229

Ion Ratio Lower Upper

105 100

134 35.1 14.6 21.8#



#68

1-Bromo-4-Fluorobenzene

Concen: 9.966 ppbv

RT: 10.377 min Scan# 3179

Delta R.T. 0.000 min

Lab File: VL042370.D

Acq: 17 Apr 2025 22:19

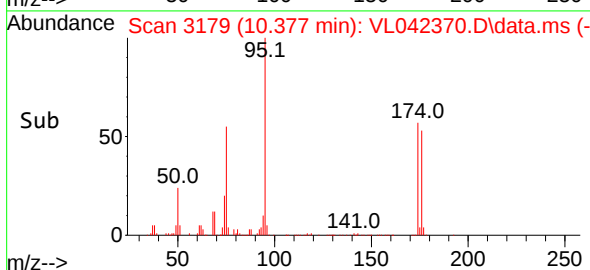
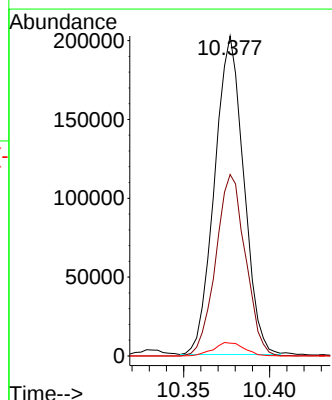
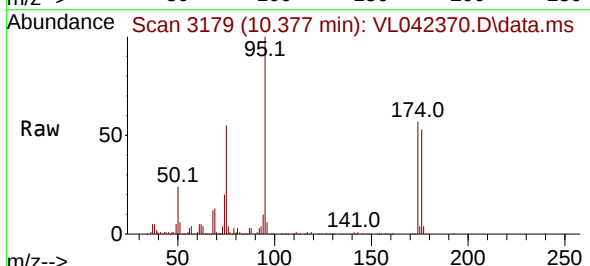
Tgt Ion: 95 Resp: 238323

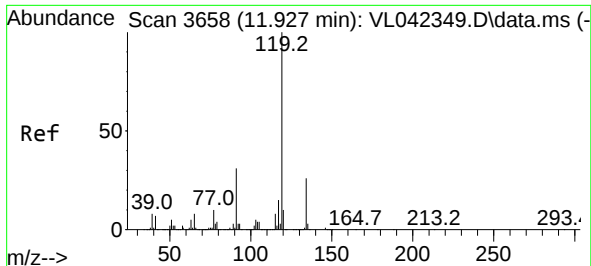
Ion Ratio Lower Upper

95 100

174 58.0 48.5 72.7

175 4.5 3.7 5.5





#69

p-Isopropyltoluene

Concen: 0.237 ppbv

RT: 11.924 min Scan# 3657

Delta R.T. -0.003 min

Lab File: VL042370.D

Acq: 17 Apr 2025 22:19

Instrument :

MSVOA_L

ClientSampleId :

IA-B2-1-03312025

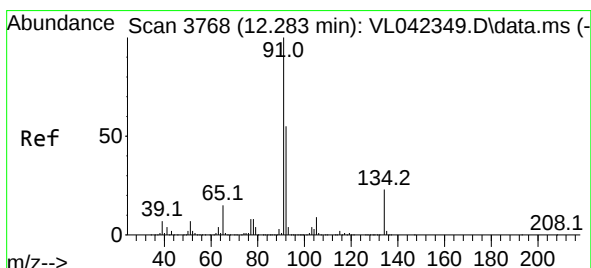
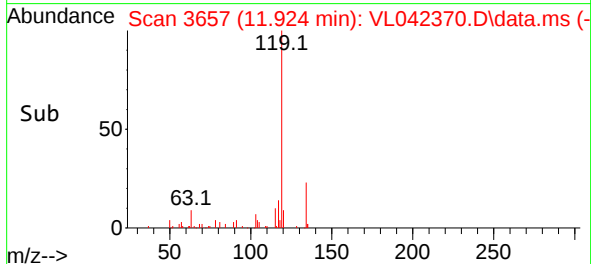
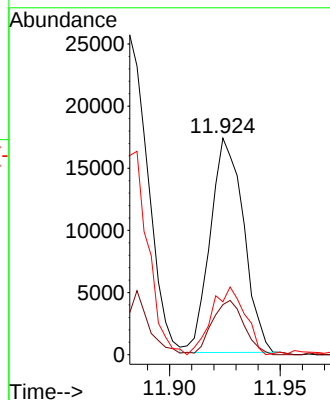
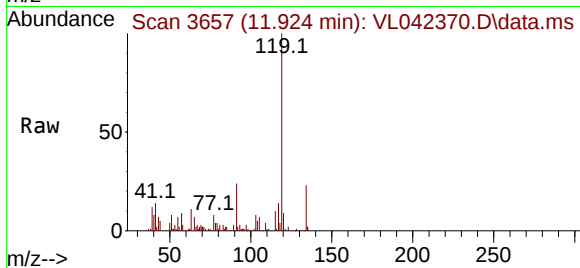
Tgt Ion:119 Resp: 18095

Ion Ratio Lower Upper

119 100

134 24.6 20.0 30.0

91 31.1 24.4 36.6



#70

n-Butylbenzene

Concen: 0.548 ppbv

RT: 12.283 min Scan# 3768

Delta R.T. 0.000 min

Lab File: VL042370.D

Acq: 17 Apr 2025 22:19

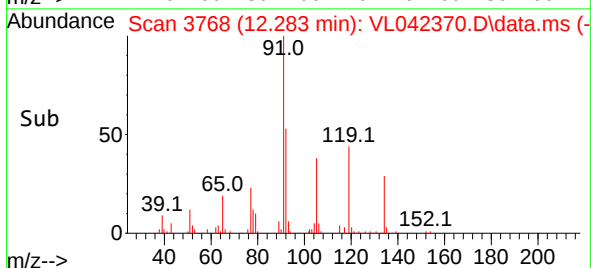
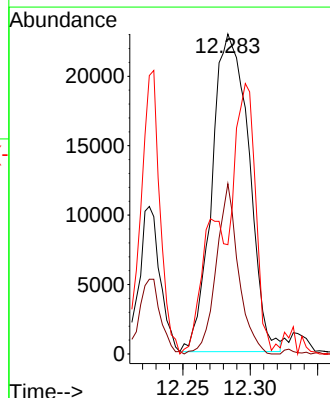
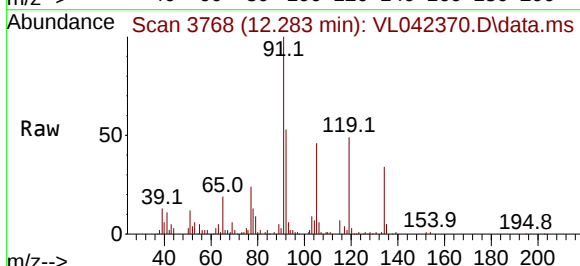
Tgt Ion: 91 Resp: 43525

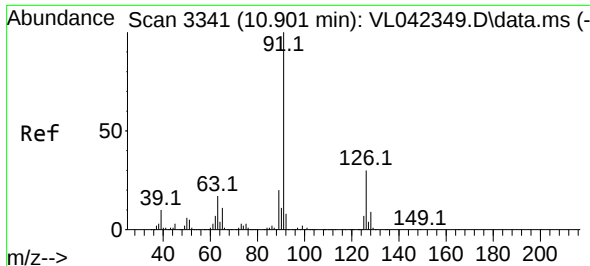
Ion Ratio Lower Upper

91 100

92 32.2 44.2 66.4#

134 81.0 18.2 27.4#

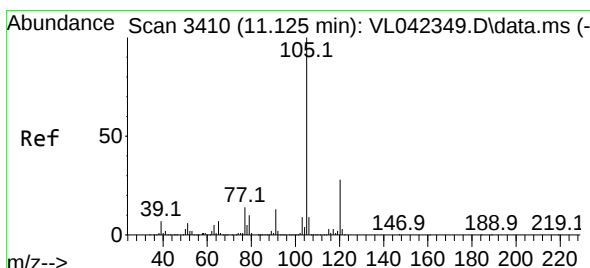
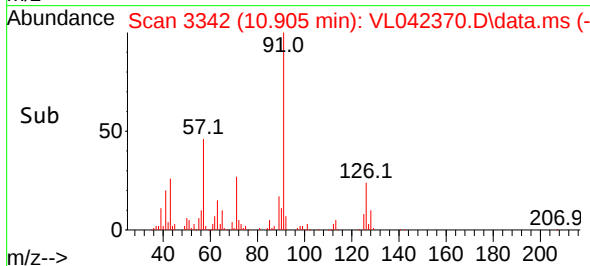
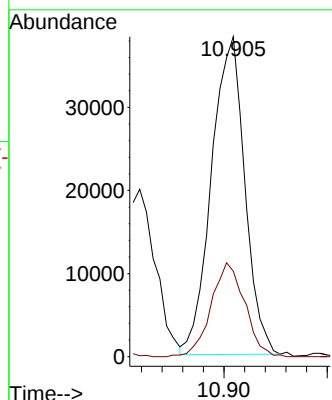
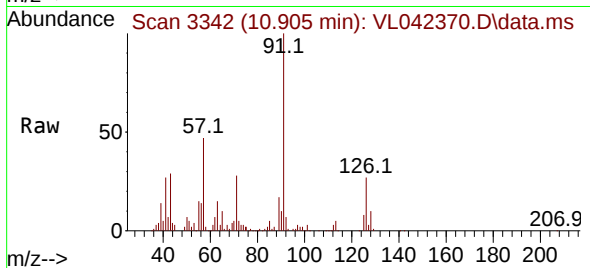




#71
2-Chlorotoluene
Concen: 0.796 ppbv
RT: 10.905 min Scan# 31
Delta R.T. 0.003 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

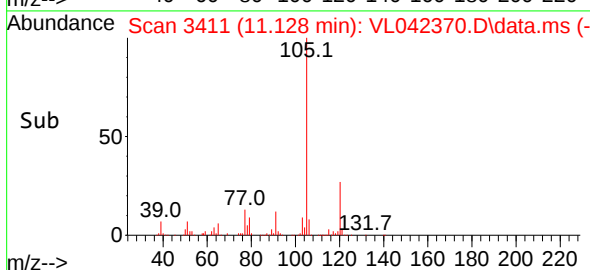
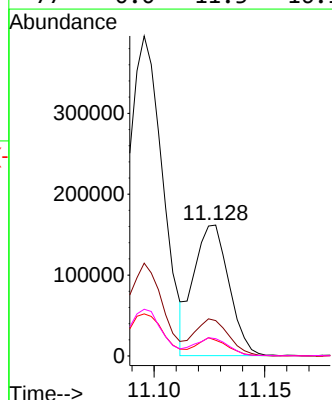
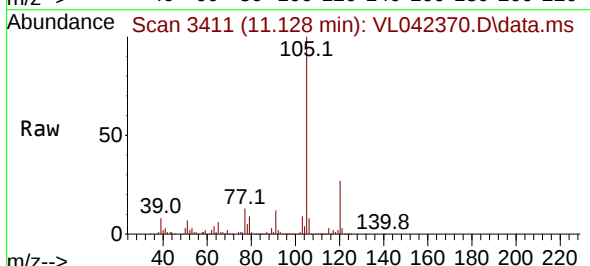
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

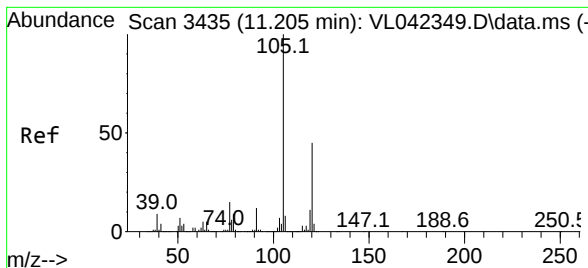
Tgt Ion: 91 Resp: 42867
Ion Ratio Lower Upper
91 100
126 29.9 11.4 45.4



#72
4-Ethyltoluene
Concen: 3.128 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. 0.003 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion:105 Resp: 178872
Ion Ratio Lower Upper
105 100
120 0.0 23.2 34.8#
91 0.0 10.4 15.6#
77 0.0 11.3 16.9#





#73

1,3,5-Trimethylbenzene

Concen: 3.443 ppbv

RT: 11.206 min Scan# 3435

Delta R.T. 0.000 min

Lab File: VL042370.D

Acq: 17 Apr 2025 22:19

Instrument :

MSVOA_1

ClientSampleId :

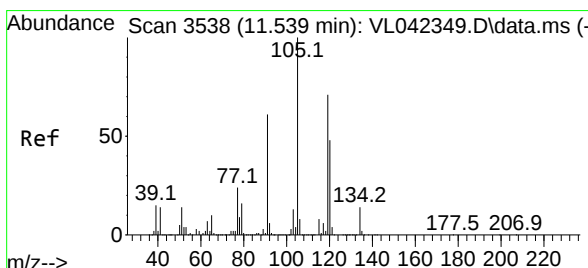
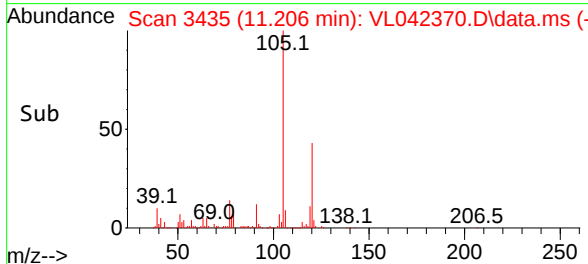
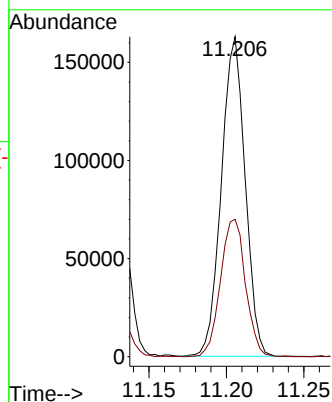
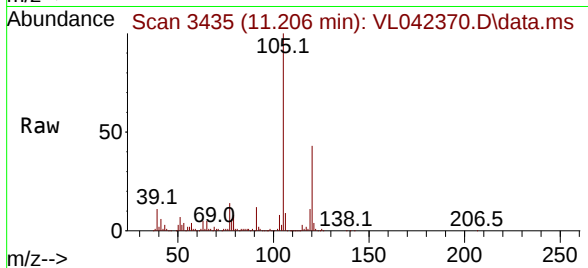
IA-B2-1-03312025

Tgt Ion:105 Resp: 173796

Ion Ratio Lower Upper

105 100

120 43.0 35.6 53.4



#74

1,2,4-Trimethylbenzene

Concen: 9.336 ppbv

RT: 11.536 min Scan# 3537

Delta R.T. -0.003 min

Lab File: VL042370.D

Acq: 17 Apr 2025 22:19

Tgt Ion:105 Resp: 550459

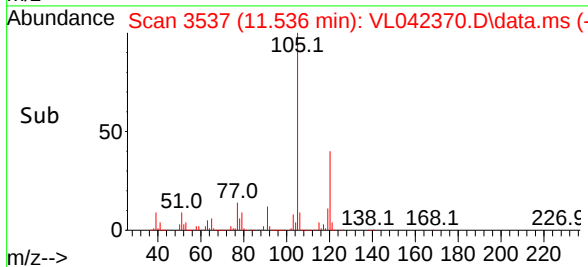
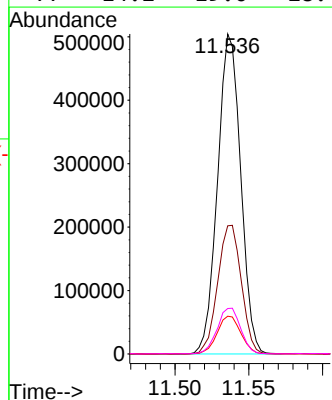
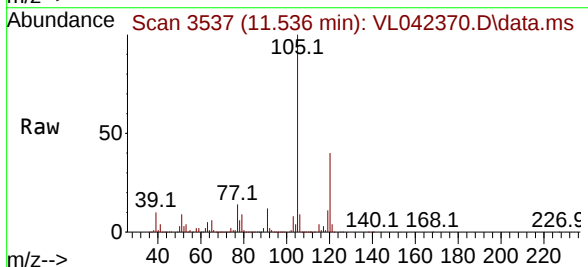
Ion Ratio Lower Upper

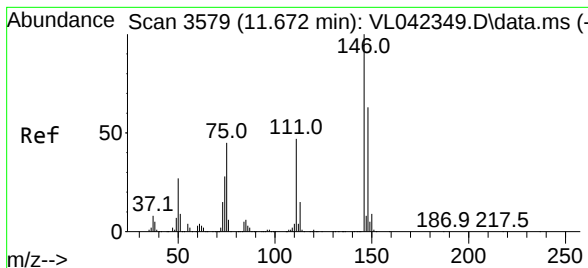
105 100

120 40.1 38.1 57.1

91 11.7 48.8 73.2#

77 14.2 19.0 28.4#





#76

1,4-Dichlorobenzene

Concen: 0.149 ppbv

RT: 11.672 min Scan# 3579

Delta R.T. 0.000 min

Lab File: VL042370.D

Acq: 17 Apr 2025 22:19

Instrument :

MSVOA_L

ClientSampleId :

IA-B2-1-03312025

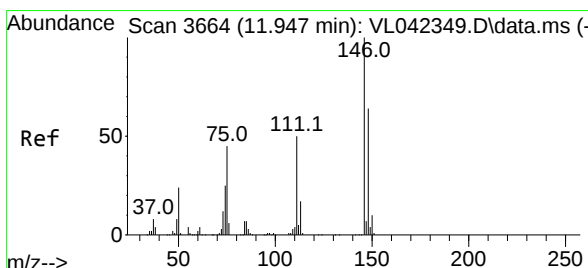
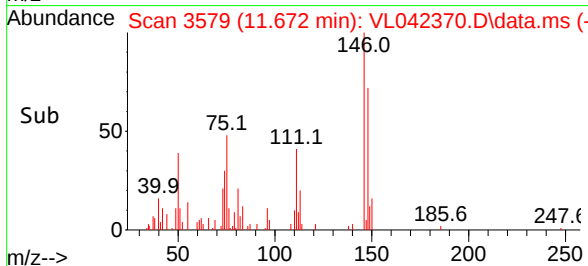
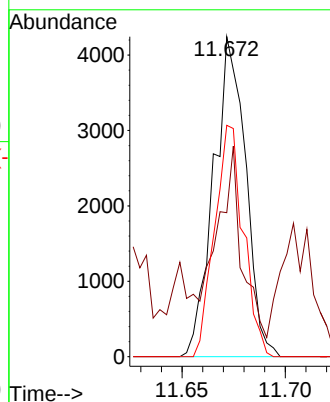
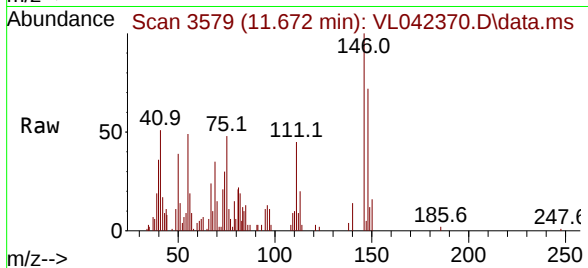
Tgt Ion:146 Resp: 4575

Ion Ratio Lower Upper

146 100

111 68.4 24.2 72.6

148 65.0 32.1 96.5



#77

1,2-Dichlorobenzene

Concen: 0.154 ppbv

RT: 11.672 min Scan# 3579

Delta R.T. -0.275 min

Lab File: VL042370.D

Acq: 17 Apr 2025 22:19

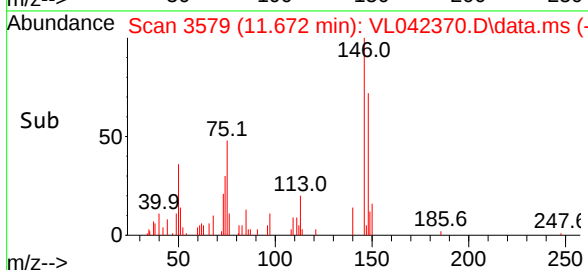
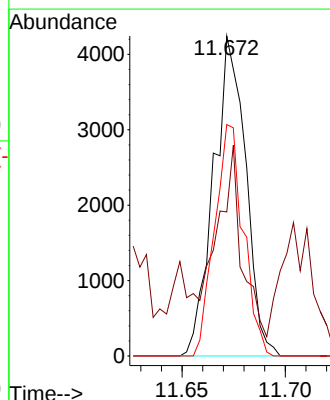
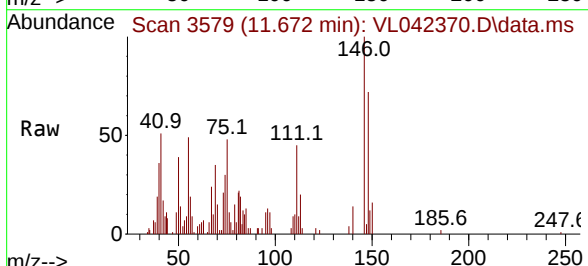
Tgt Ion:146 Resp: 4575

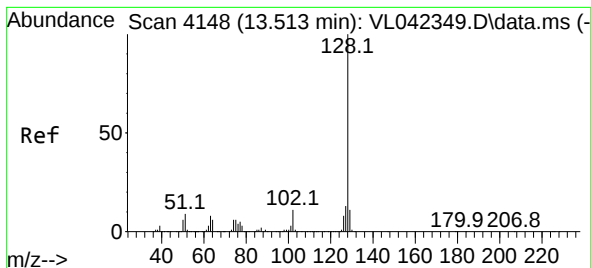
Ion Ratio Lower Upper

146 100

111 58.3 25.3 75.9

148 65.0 31.5 94.5





#79

Naphthalene

Concen: 0.364 ppbv

RT: 13.513 min Scan# 4148

Delta R.T. 0.000 min

Lab File: VL042370.D

Acq: 17 Apr 2025 22:19

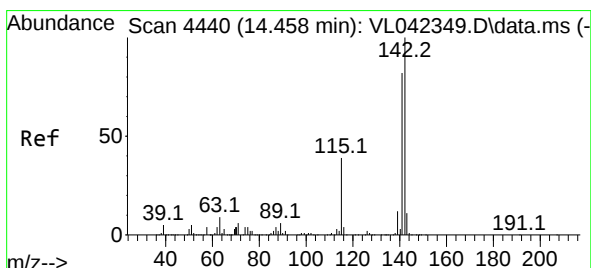
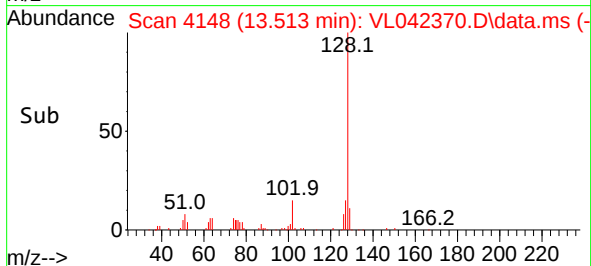
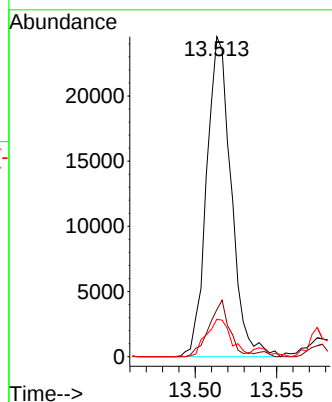
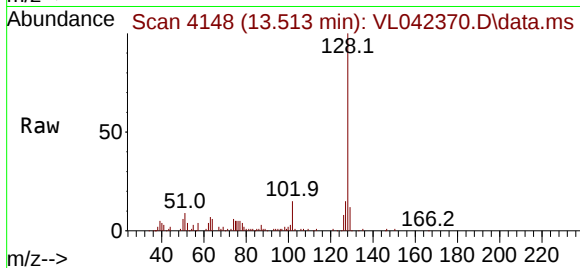
Instrument :

MSVOA_L

ClientSampleId :

IA-B2-1-03312025

Tgt Ion:	128	Resp:	25684
Ion Ratio	Lower	Upper	
128	100		
127	14.7	10.6	15.8
129	11.7	8.6	12.8



#80

Naphthalene, 2-methyl-

Concen: 0.037 ppbv

RT: 14.465 min Scan# 4442

Delta R.T. 0.007 min

Lab File: VL042370.D

Acq: 17 Apr 2025 22:19

Tgt Ion:	142	Resp:	1496
Ion Ratio	Lower	Upper	
142	100		
141	85.2	66.8	100.2
115	75.7	33.4	50.2

