

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031025\
 Data File : VL042121.D
 Acq On : 10 Mar 2025 12:59
 Operator : SY/MD
 Sample : Q1532-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 1

Quant Time: Mar 11 01:23:55 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

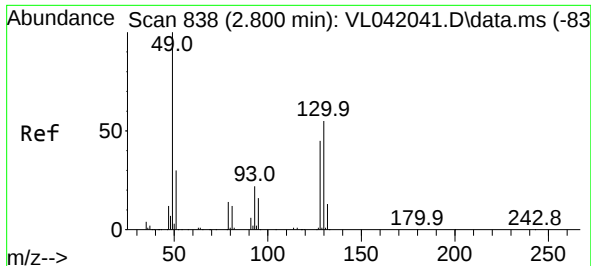
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.800	49	161577	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.978	114	375440	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.901	117	321830	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	253211	10.227	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.300%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.505	85	8597	0.512	ppbv	98
4) Chloromethane	1.538	50	3305	0.532	ppbv	94
9) Propene	1.897	41	6073	0.635	ppbv	97
11) Trichlorofluoromethane	1.887	101	4307	0.256	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.146	101	1234	0.092	ppbv	88
13) Ethanol	1.728	45	28335	46.657	ppbv	99
15) Acetone	1.845	43	102118	7.157	ppbv	100
16) 1,3-Butadiene	1.612	39	680	0.102	ppbv	97
17) tert-Butyl alcohol	2.055	59	1213	0.068	ppbv	99
19) Isopropyl Alcohol	1.894	45	61180	7.464	ppbv	98
20) Methylene Chloride	2.072	84	8920	1.653	ppbv	89
23) Vinyl Acetate	2.483	43	4241	0.423	ppbv #	50
25) Ethyl Acetate	2.855	43	14868	0.260	ppbv #	96
26) Hexane	2.839	57	4748	0.206	ppbv #	64
29) Chloroform	2.865	83	1122	0.036	ppbv	93
30) Cyclohexane	3.874	84	601	0.032	ppbv #	1
34) 2-Butanone	2.573	43	19052	0.651	ppbv	97
36) Benzene	3.674	78	2851	0.073	ppbv	98
39) 1,2-Dichloropropane	3.978	63	96577	6.474	ppbv #	22
52) Tetrachloroethene	8.244	164	562	0.042	ppbv #	17
53) Toluene	6.956	91	8851	0.202	ppbv #	20
58) Ethyl Benzene	9.373	91	4916	0.083	ppbv	93
59) m/p-Xylene	9.548	91	6927	0.147	ppbv #	100
60) o-Xylene	9.979	91	3937	0.083	ppbv	96
74) 1,2,4-Trimethylbenzene	11.548	105	2660	0.047	ppbv #	63

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

Quant Time: Mar 11 01:23:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

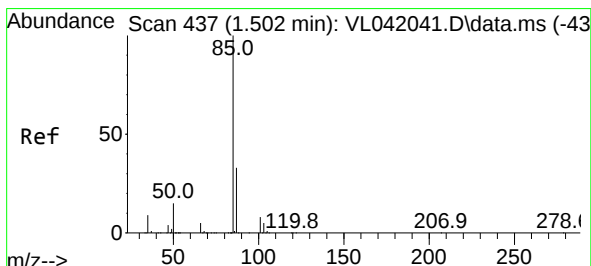
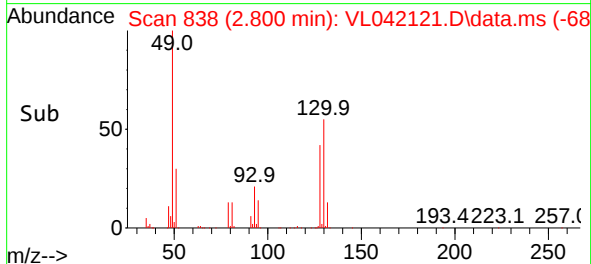
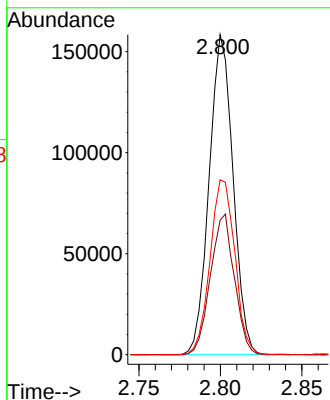
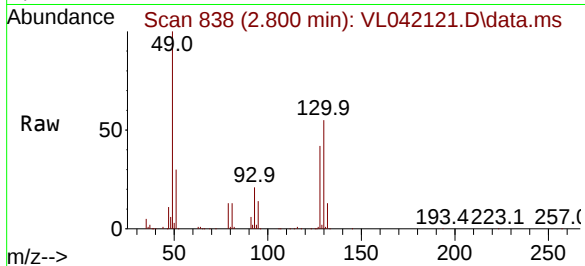




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.800 min Scan# 81
 Delta R.T. -0.000 min
 Lab File: VL042121.D
 Acq: 10 Mar 2025 12:59

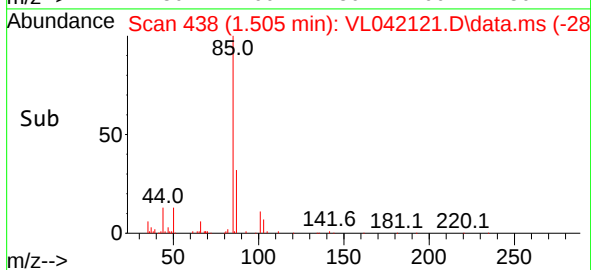
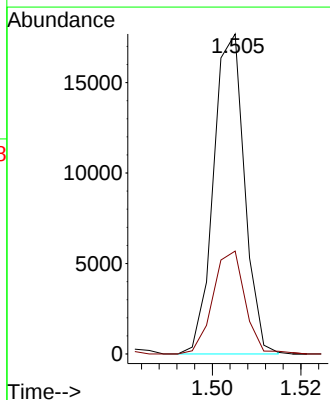
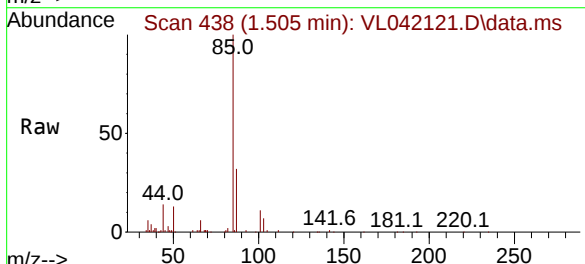
Instrument :
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 ClientSampleId :
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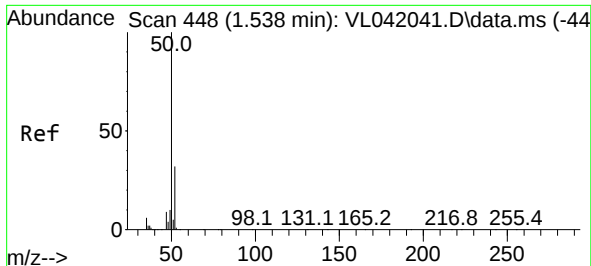
Tgt Ion: 49 Resp: 161577
 Ion Ratio Lower Upper
 49 100
 128 43.9 21.6 64.8
 130 56.8 27.8 83.4



#2
 Dichlorodifluoromethane
 Concen: 0.512 ppbv
 RT: 1.505 min Scan# 438
 Delta R.T. 0.003 min
 Lab File: VL042121.D
 Acq: 10 Mar 2025 12:59

Tgt Ion: 85 Resp: 8597
 Ion Ratio Lower Upper
 85 100
 87 32.1 26.4 39.6

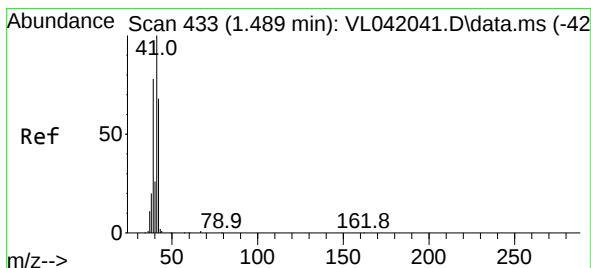
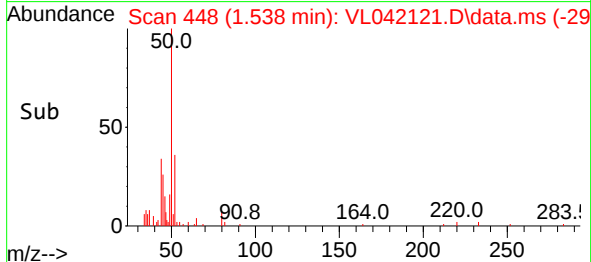
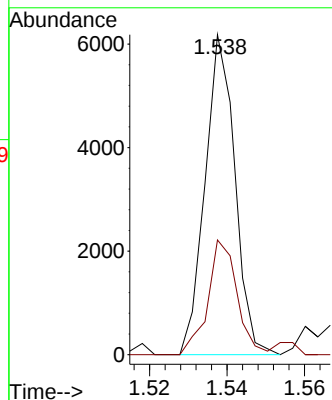
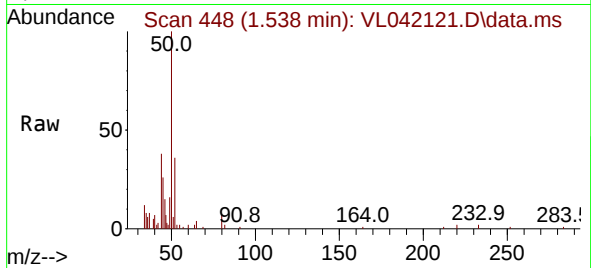




#4
Chloromethane
Concen: 0.532 ppbv
RT: 1.538 min Scan# 44
Delta R.T. -0.000 min
Lab File: VL042121.D
Acq: 10 Mar 2025 12:59

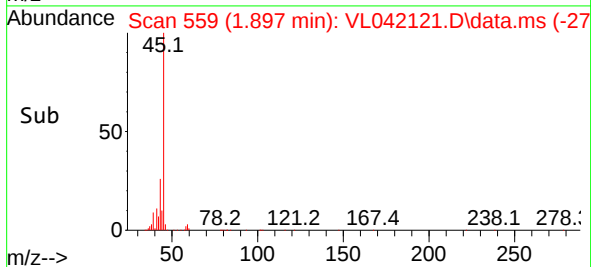
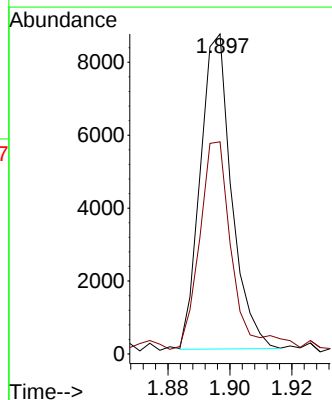
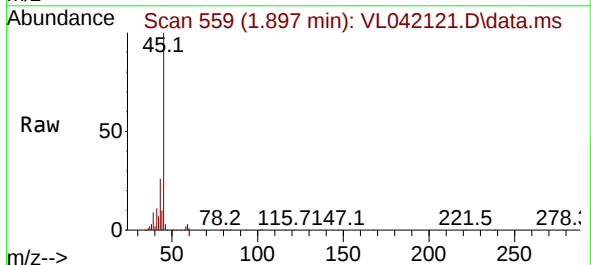
Instrument :
MSVOA_1
ClientSampleId :
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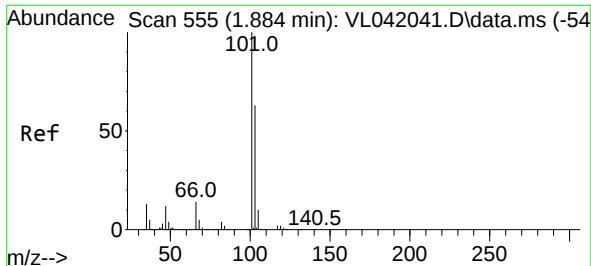
Tgt Ion: 50 Resp: 3305
Ion Ratio Lower Upper
50 100
52 34.8 25.4 38.0



#9
Propene
Concen: 0.635 ppbv
RT: 1.897 min Scan# 559
Delta R.T. 0.408 min
Lab File: VL042121.D
Acq: 10 Mar 2025 12:59

Tgt Ion: 41 Resp: 6073
Ion Ratio Lower Upper
41 100
42 67.3 55.8 83.6

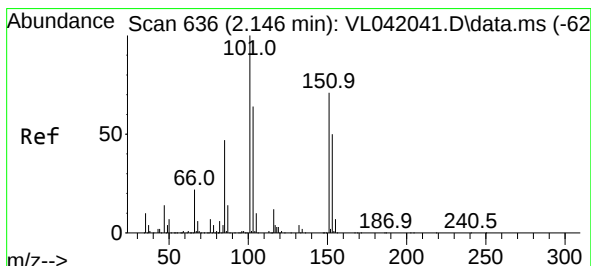
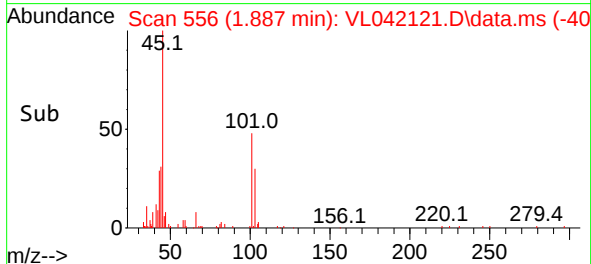
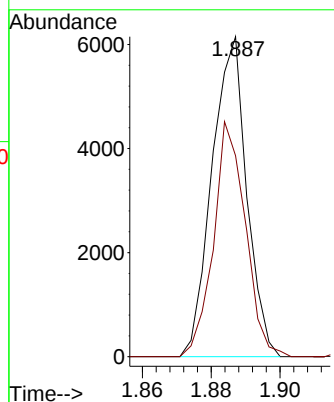
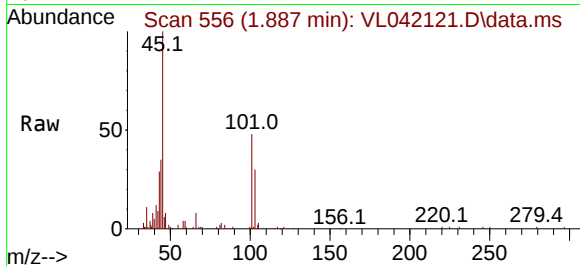




#11
 Trichlorofluoromethane
 Concen: 0.256 ppbv
 RT: 1.887 min Scan# 511
 Delta R.T. 0.003 min
 Lab File: VL042121.D
 Acq: 10 Mar 2025 12:59

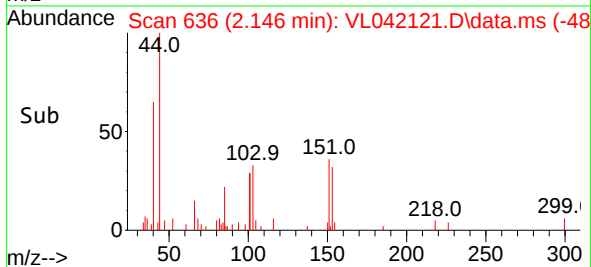
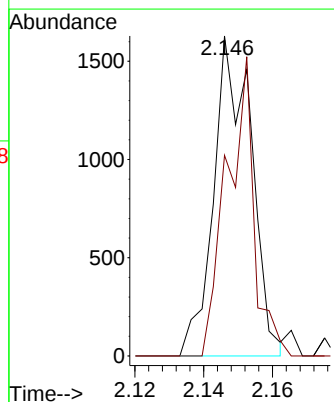
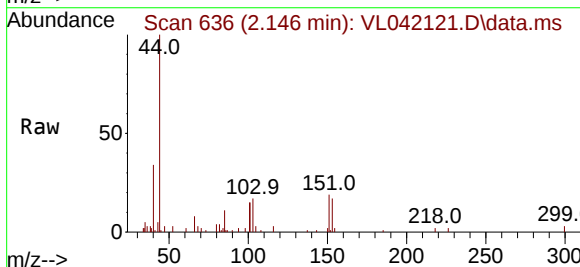
Instrument :
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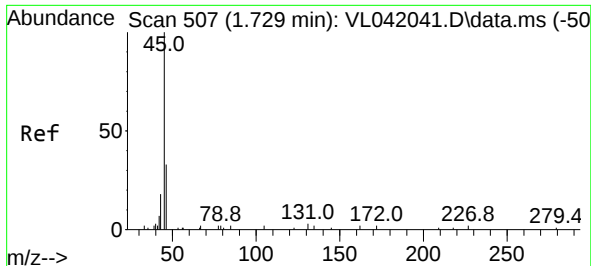
Tgt Ion:101 Resp: 4307
 Ion Ratio Lower Upper
 101 100
 103 62.8 50.6 75.8



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.092 ppbv
 RT: 2.146 min Scan# 636
 Delta R.T. -0.000 min
 Lab File: VL042121.D
 Acq: 10 Mar 2025 12:59

Tgt Ion:101 Resp: 1234
 Ion Ratio Lower Upper
 101 100
 151 67.8 62.6 94.0

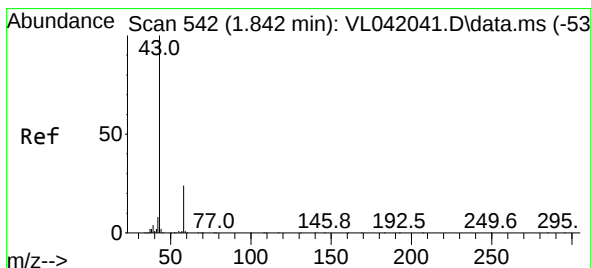
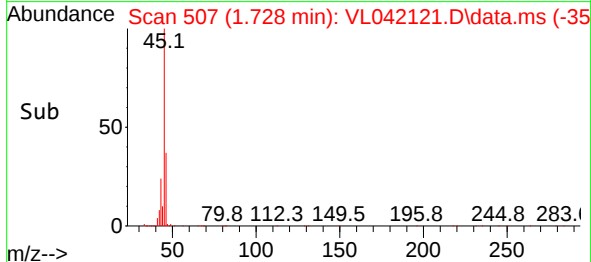
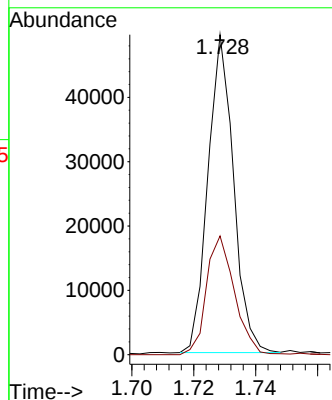
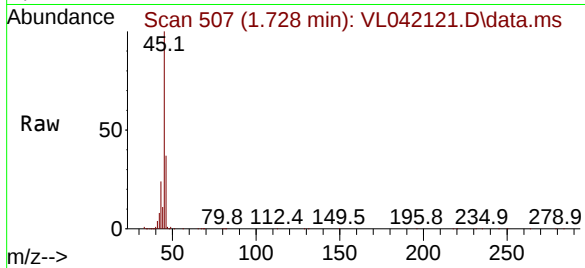




#13
Ethanol
Concen: 46.657 ppbv
RT: 1.728 min Scan# 50
Delta R.T. -0.000 min
Lab File: VL042121.D
Acq: 10 Mar 2025 12:59

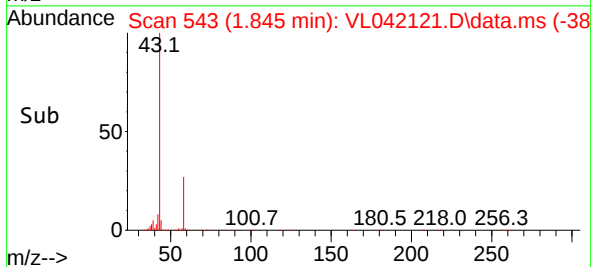
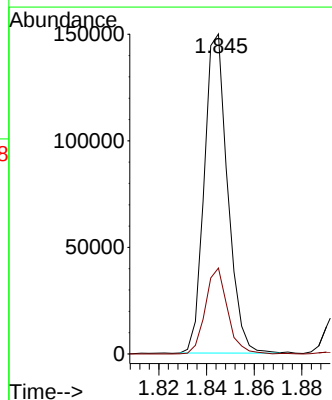
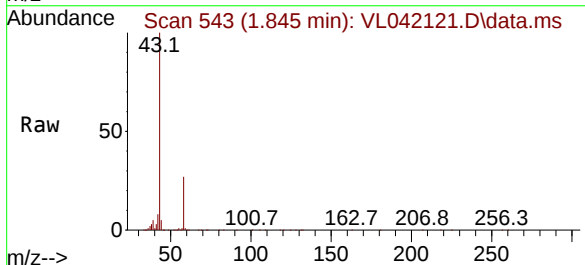
Instrument :
MSVOA_L
ClientSampleId :
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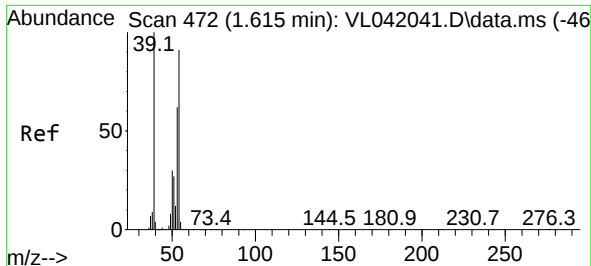
Tgt Ion: 45 Resp: 28335
Ion Ratio Lower Upper
45 100
46 41.8 17.1 68.3



#15
Acetone
Concen: 7.157 ppbv
RT: 1.845 min Scan# 543
Delta R.T. 0.003 min
Lab File: VL042121.D
Acq: 10 Mar 2025 12:59

Tgt Ion: 43 Resp: 102118
Ion Ratio Lower Upper
43 100
58 25.8 20.7 31.1

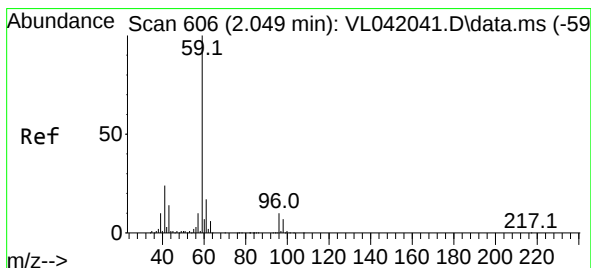
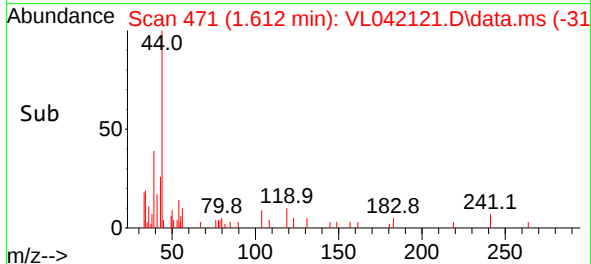
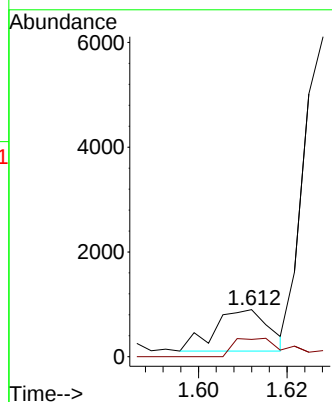
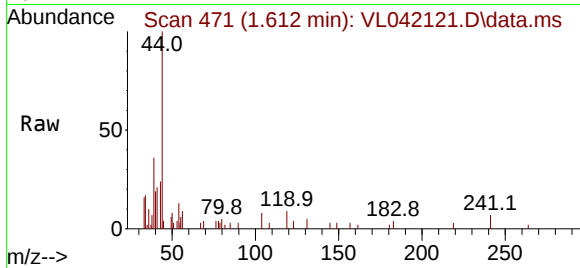




#16
1,3-Butadiene
Concen: 0.102 ppbv
RT: 1.612 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL042121.D
Acq: 10 Mar 2025 12:59

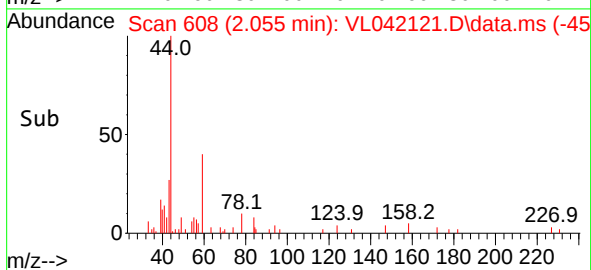
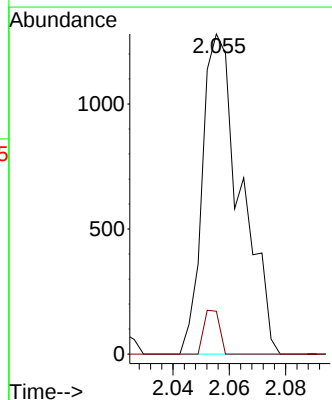
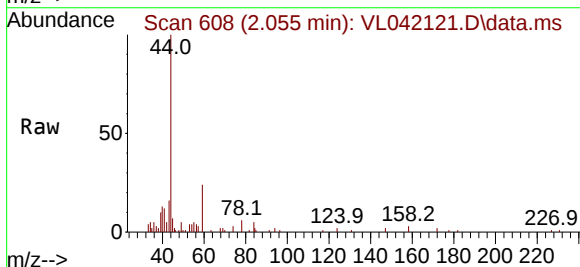
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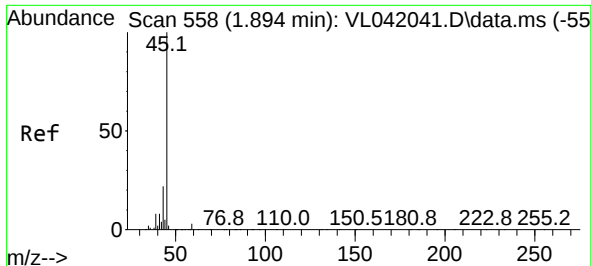
Tgt Ion: 39 Resp: 680
Ion Ratio Lower Upper
39 100
54 76.9 59.6 89.4



#17
tert-Butyl alcohol
Concen: 0.068 ppbv
RT: 2.055 min Scan# 608
Delta R.T. 0.006 min
Lab File: VL042121.D
Acq: 10 Mar 2025 12:59

Tgt Ion: 59 Resp: 1213
Ion Ratio Lower Upper
59 100
57 11.9 9.3 13.9

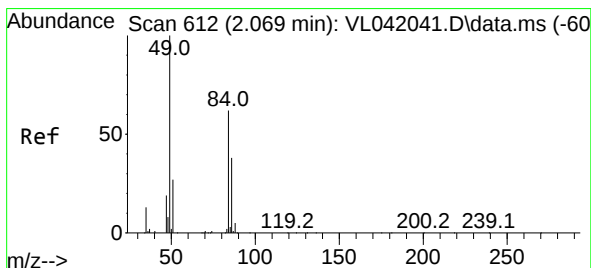
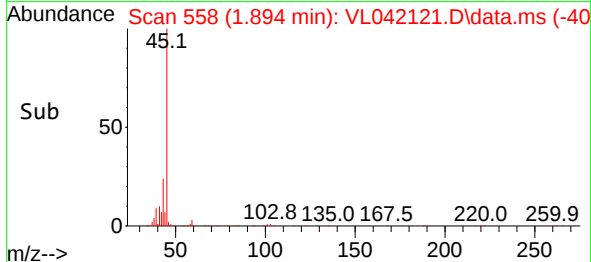
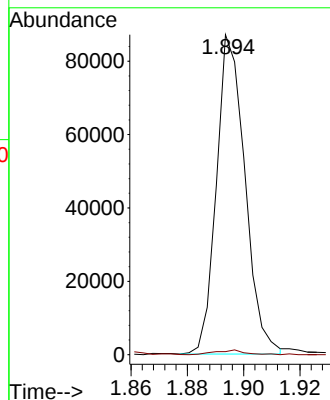
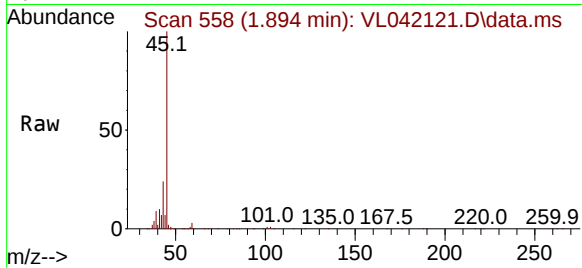




#19
Isopropyl Alcohol
Concen: 7.464 ppbv
RT: 1.894 min Scan# 51
Delta R.T. -0.000 min
Lab File: VL042121.D
Acq: 10 Mar 2025 12:59

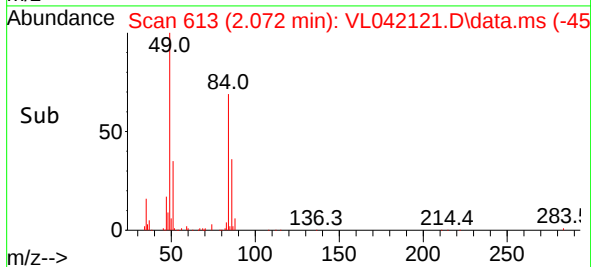
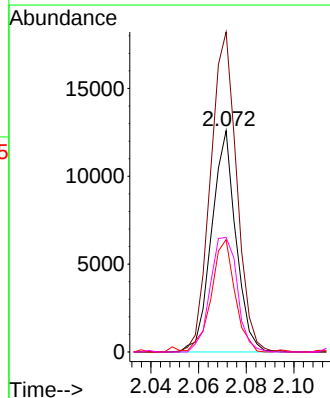
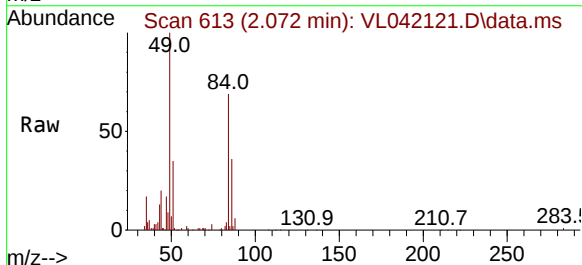
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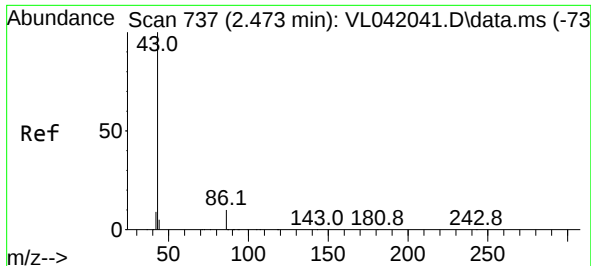
Tgt Ion: 45 Resp: 61180
Ion Ratio Lower Upper
45 100
58 43.0 35.3 52.9



#20
Methylene Chloride
Concen: 1.653 ppbv
RT: 2.072 min Scan# 613
Delta R.T. 0.003 min
Lab File: VL042121.D
Acq: 10 Mar 2025 12:59

Tgt Ion: 84 Resp: 8920
Ion Ratio Lower Upper
84 100
49 144.0 130.0 195.0
51 50.1 37.4 56.0
86 54.2 48.6 72.8

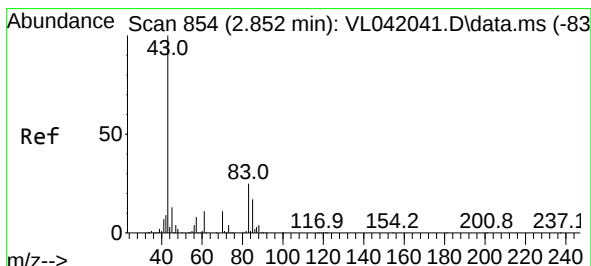
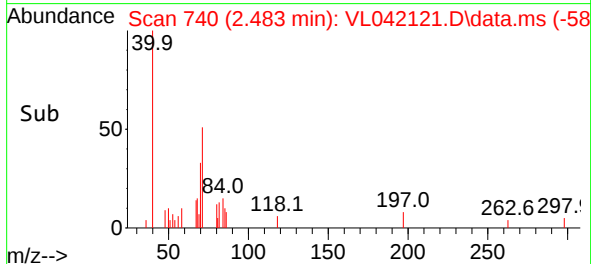
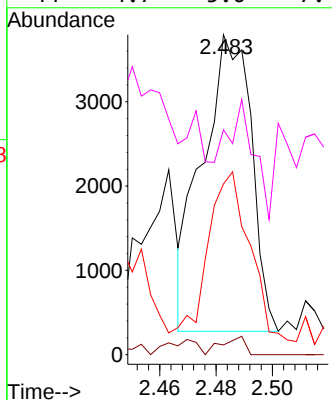
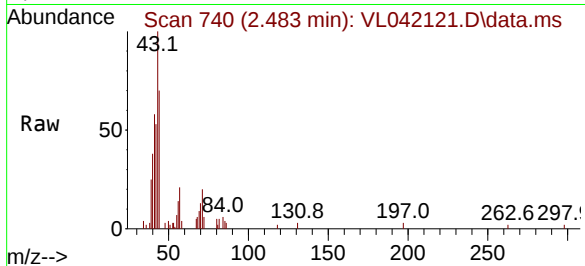




#23
Vinyl Acetate
Concen: 0.423 ppbv
RT: 2.483 min Scan# 741
Delta R.T. 0.009 min
Lab File: VL042121.D
Acq: 10 Mar 2025 12:59

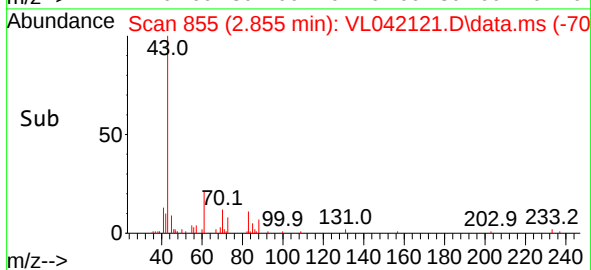
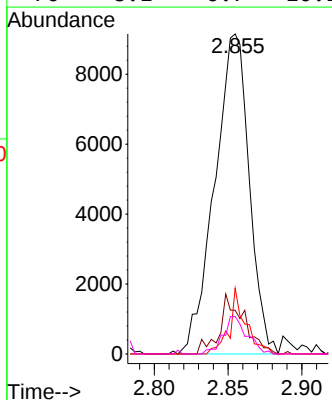
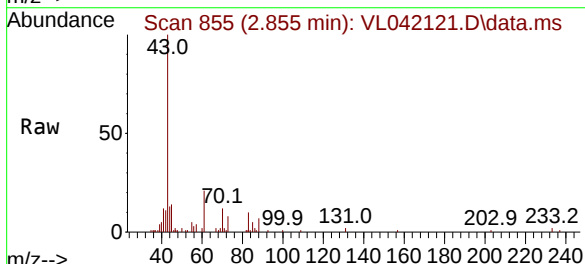
Instrument :
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ClientSampleId :
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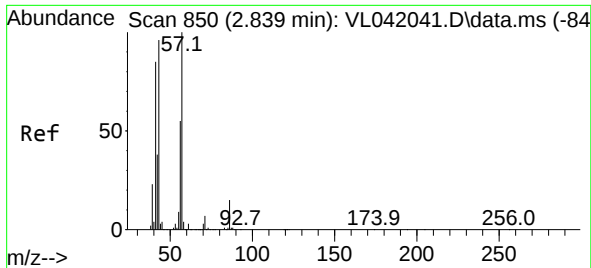
Tgt Ion:	43	Resp:	4241
Ion	Ratio	Lower	Upper
43	100		
86	3.3	7.0	10.4#
42	50.4	7.6	11.4#
44	4.7	5.0	7.4#



#25
Ethyl Acetate
Concen: 0.260 ppbv
RT: 2.855 min Scan# 855
Delta R.T. 0.003 min
Lab File: VL042121.D
Acq: 10 Mar 2025 12:59

Tgt Ion:	43	Resp:	14868
Ion	Ratio	Lower	Upper
43	100		
45	13.4	8.1	12.1#
61	9.7	7.2	10.8
70	8.1	6.7	10.1

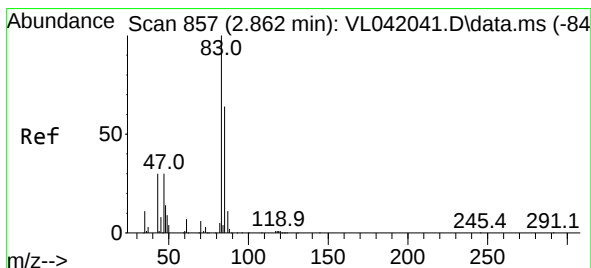
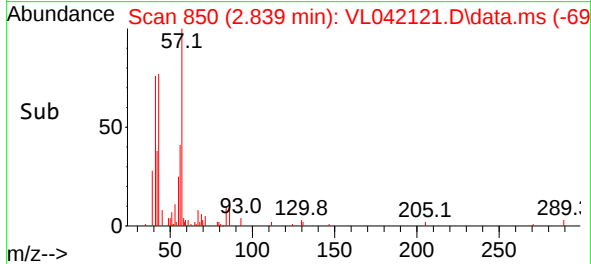
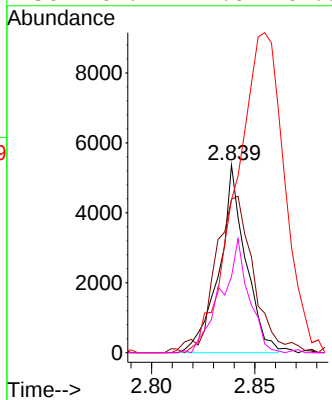
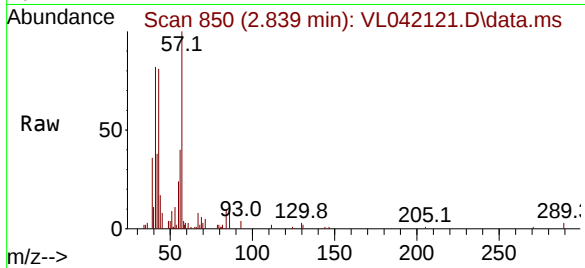




#26
Hexane
Concen: 0.206 ppbv
RT: 2.839 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL042121.D
Acq: 10 Mar 2025 12:59

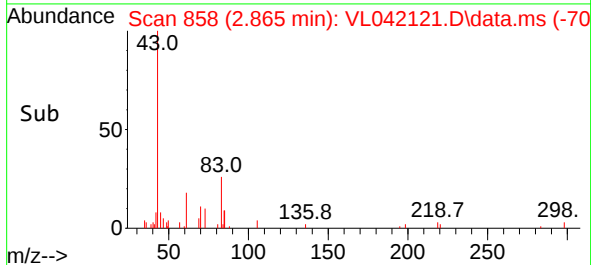
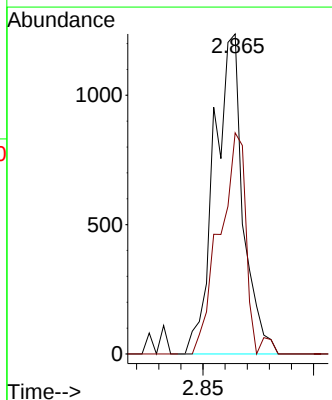
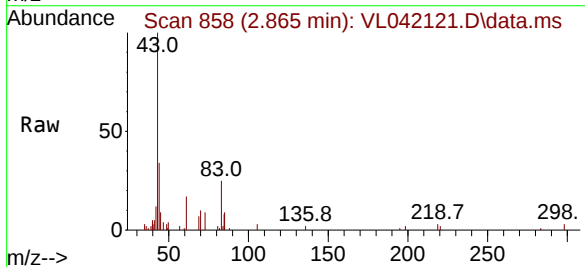
Instrument :
MSVOA_L
ClientSampleId :
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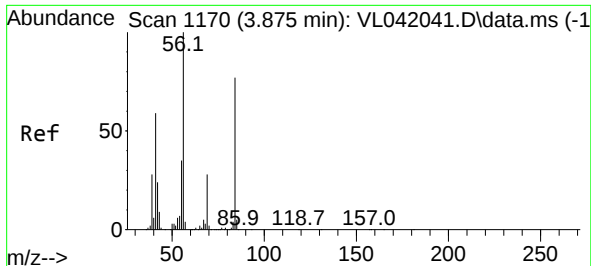
Tgt Ion:	57	Resp:	4748
Ion	Ratio	Lower	Upper
57	100		
41	121.3	70.6	106.0#
43	320.5	199.4	299.0#
56	64.7	42.6	64.0#



#29
Chloroform
Concen: 0.036 ppbv
RT: 2.865 min Scan# 858
Delta R.T. 0.003 min
Lab File: VL042121.D
Acq: 10 Mar 2025 12:59

Tgt Ion:	83	Resp:	1122
Ion	Ratio	Lower	Upper
83	100		
85	69.1	51.2	76.8

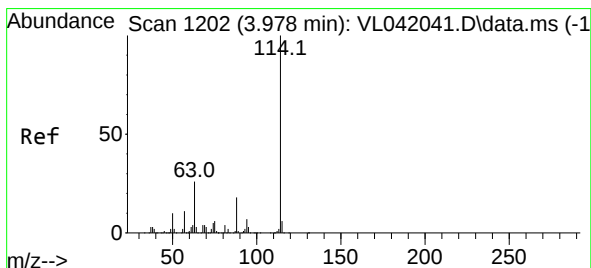
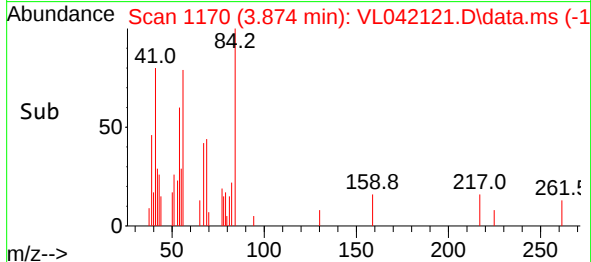
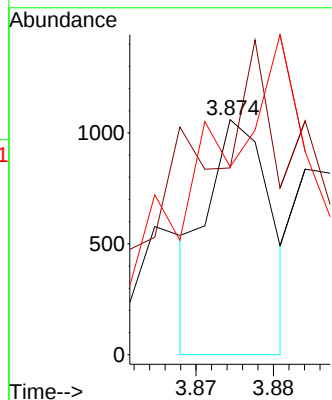
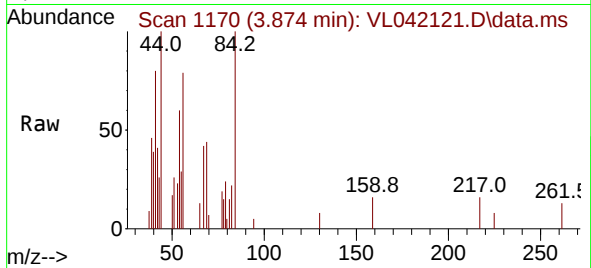




#30
Cyclohexane
Concen: 0.032 ppbv
RT: 3.874 min Scan# 1170
Delta R.T. -0.000 min
Lab File: VL042121.D
Acq: 10 Mar 2025 12:59

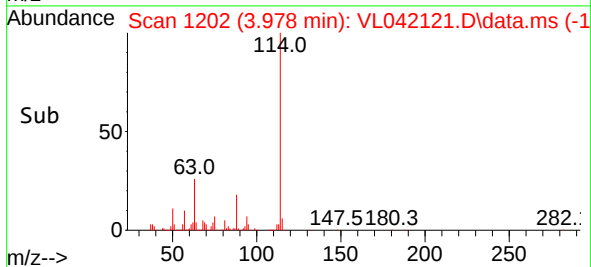
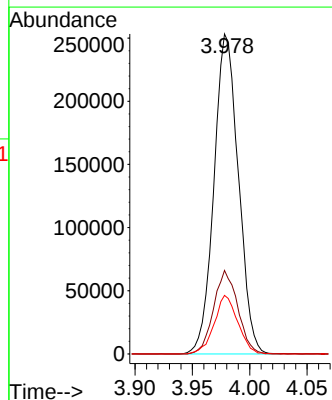
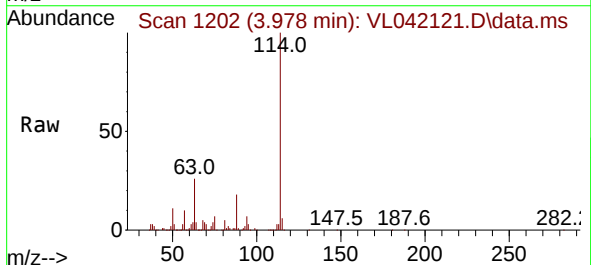
Instrument :
MSVOA_L
ClientSampleId :
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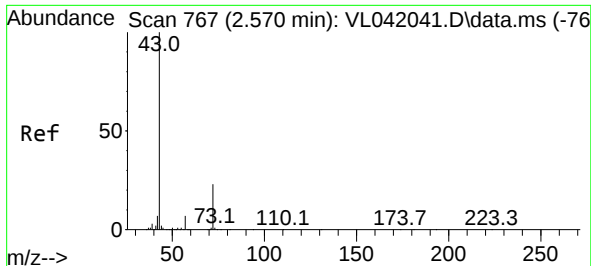
Tgt Ion: 84 Resp: 601
Ion Ratio Lower Upper
84 100
56 0.0 101.5 152.3#
41 0.0 62.6 93.8#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.978 min Scan# 1202
Delta R.T. -0.000 min
Lab File: VL042121.D
Acq: 10 Mar 2025 12:59

Tgt Ion: 114 Resp: 375440
Ion Ratio Lower Upper
114 100
63 25.8 20.1 30.1
88 17.7 14.3 21.5

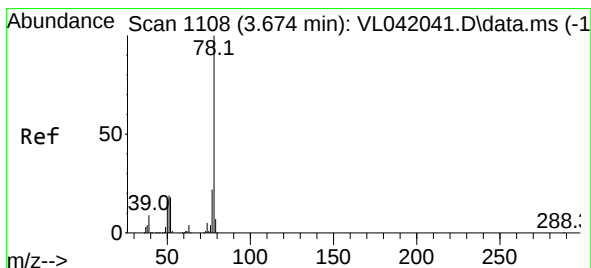
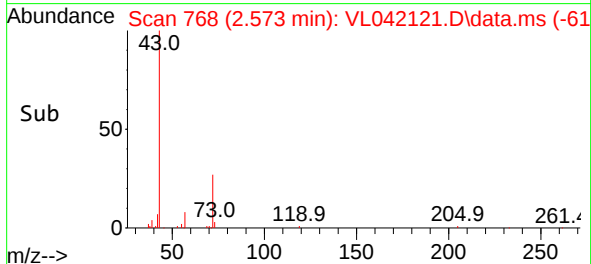
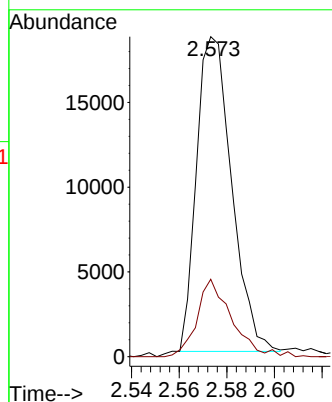
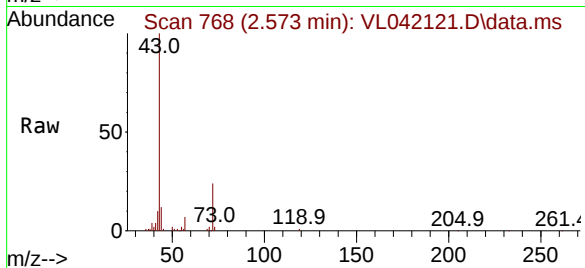




#34
2-Butanone
Concen: 0.651 ppbv
RT: 2.573 min Scan# 768
Delta R.T. 0.003 min
Lab File: VL042121.D
Acq: 10 Mar 2025 12:59

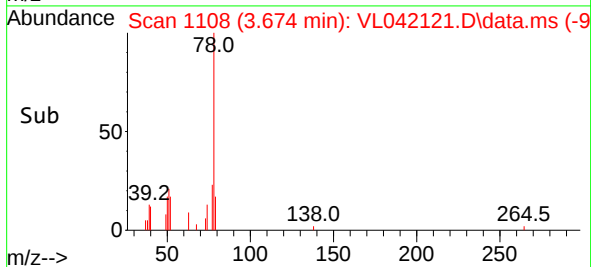
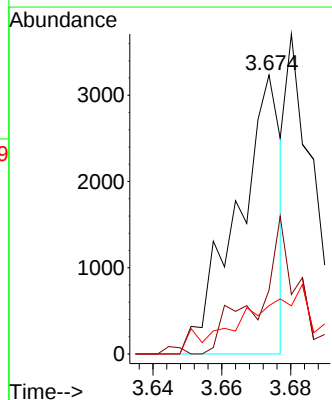
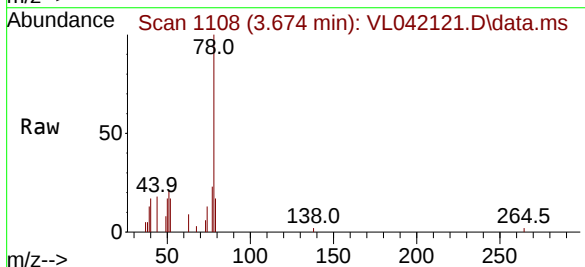
Instrument :
MSVOA_L
ClientSampleId :
1

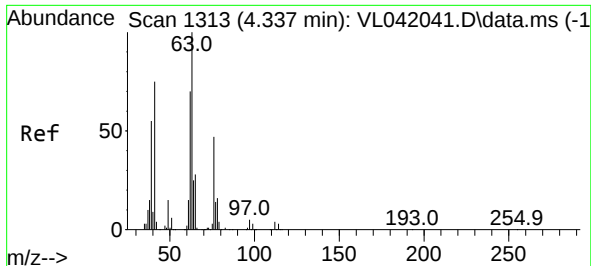
Tgt Ion: 43 Resp: 19052
Ion Ratio Lower Upper
43 100
72 24.4 18.5 27.7



#36
Benzene
Concen: 0.073 ppbv
RT: 3.674 min Scan# 1108
Delta R.T. -0.000 min
Lab File: VL042121.D
Acq: 10 Mar 2025 12:59

Tgt Ion: 78 Resp: 2851
Ion Ratio Lower Upper
78 100
77 20.6 17.7 26.5
50 17.3 13.9 20.9





#39

1,2-Dichloropropane

Concen: 6.474 ppbv

RT: 3.978 min Scan# 11

Delta R.T. -0.359 min

Lab File: VL042121.D

Acq: 10 Mar 2025 12:59

Instrument :

MSVOA_L

ClientSampleId :

1

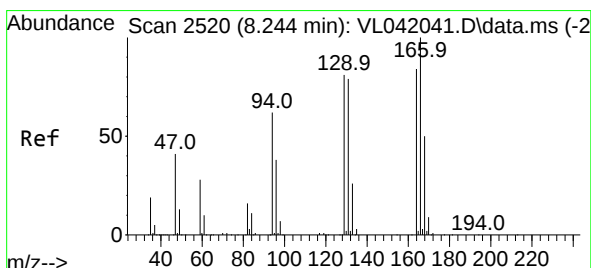
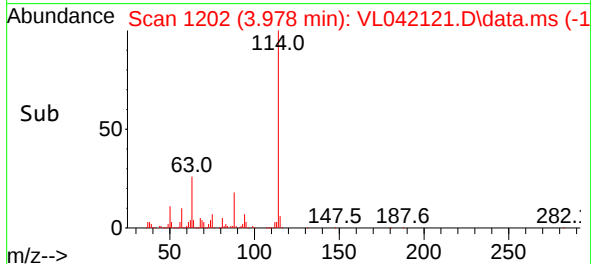
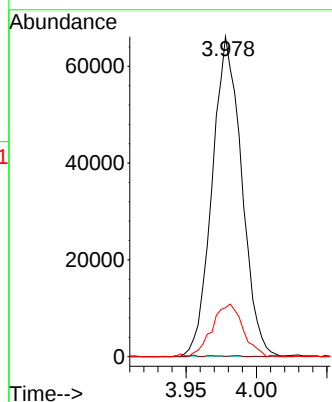
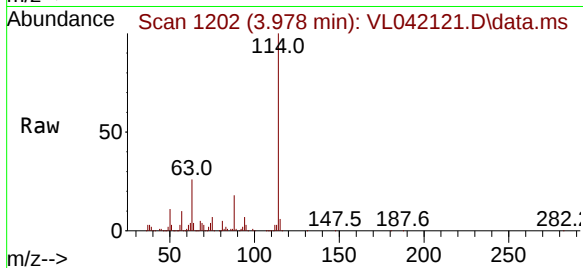
Tgt Ion: 63 Resp: 96577

Ion Ratio Lower Upper

63 100

41 0.1 60.1 90.1#

62 15.3 55.8 83.8#



#52

Tetrachloroethene

Concen: 0.042 ppbv

RT: 8.244 min Scan# 2520

Delta R.T. -0.000 min

Lab File: VL042121.D

Acq: 10 Mar 2025 12:59

Tgt Ion: 164 Resp: 562

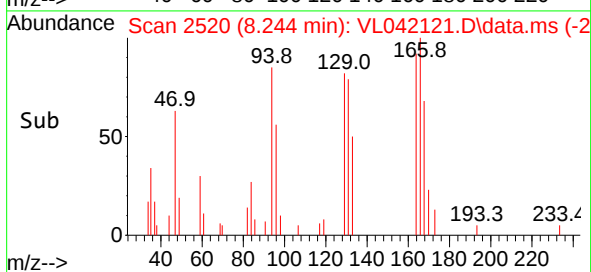
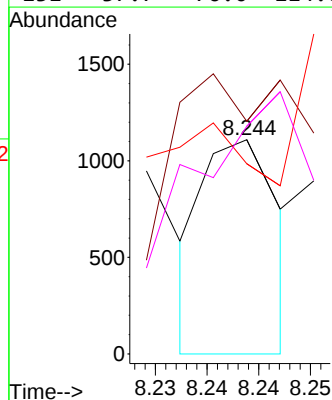
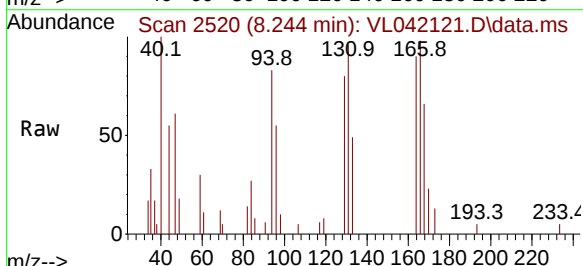
Ion Ratio Lower Upper

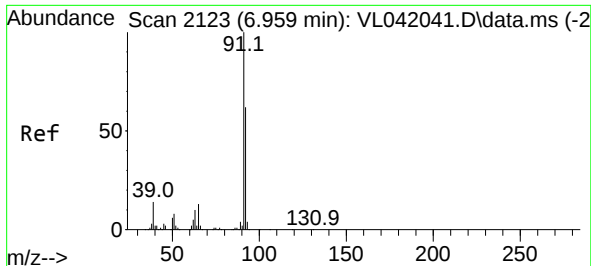
164 100

166 0.0 95.7 143.5#

129 21.7 77.1 115.7#

131 37.7 76.0 114.0#

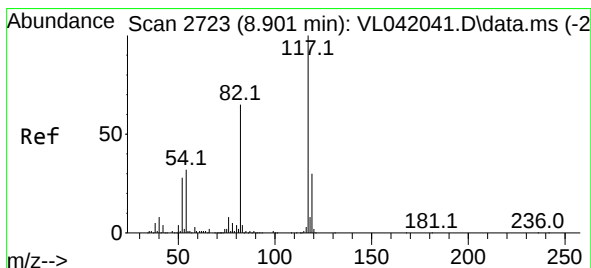
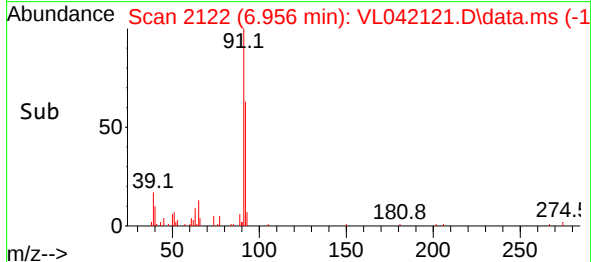
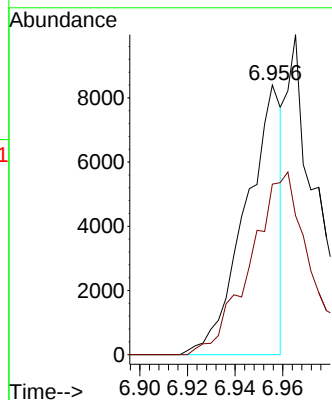
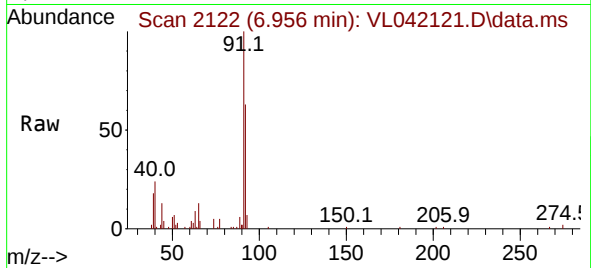




#53
Toluene
Concen: 0.202 ppbv
RT: 6.956 min Scan# 2122
Delta R.T. -0.003 min
Lab File: VL042121.D
Acq: 10 Mar 2025 12:59

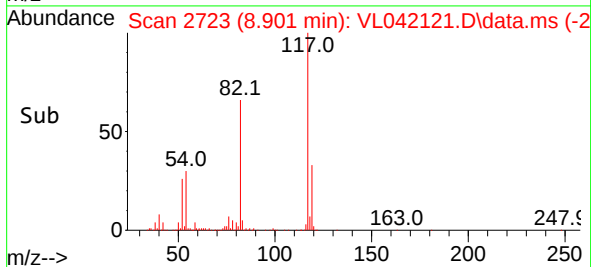
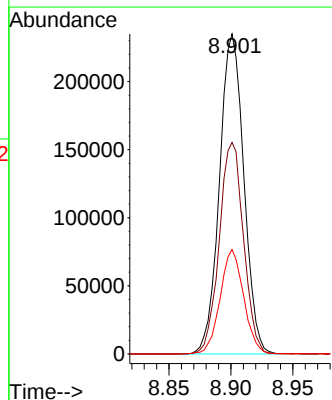
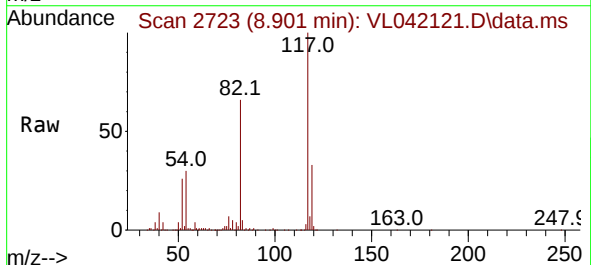
Instrument :
MSVOA_L
ClientSampleId :
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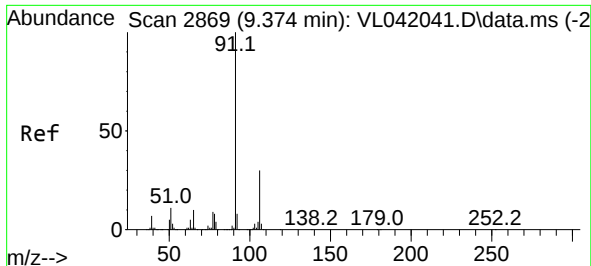
Tgt Ion: 91 Resp: 8851
Ion Ratio Lower Upper
91 100
92 0.0 49.0 73.6#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.901 min Scan# 2723
Delta R.T. -0.000 min
Lab File: VL042121.D
Acq: 10 Mar 2025 12:59

Tgt Ion: 117 Resp: 321830
Ion Ratio Lower Upper
117 100
82 65.8 55.0 82.6
119 31.7 25.9 38.9

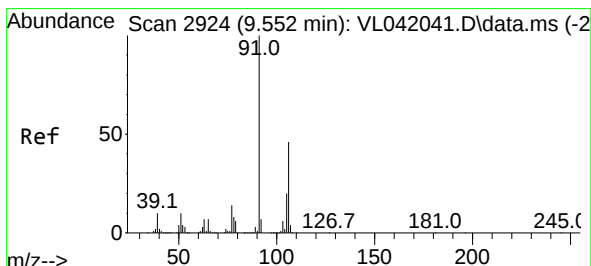
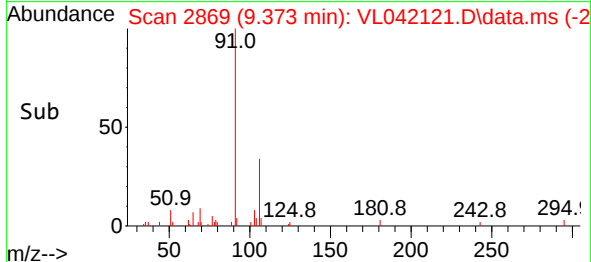
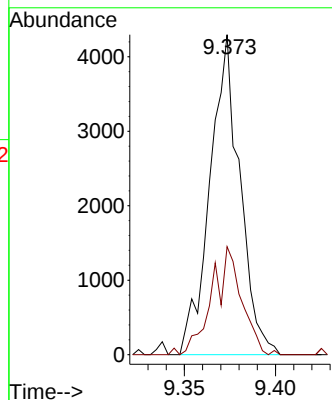
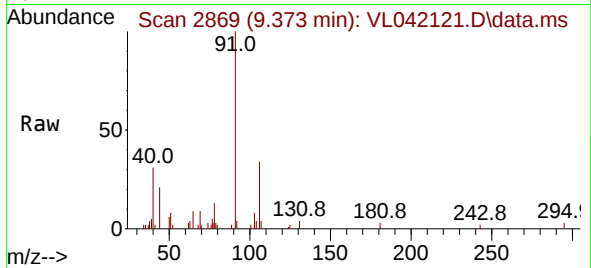




#58
Ethyl Benzene
Concen: 0.083 ppbv
RT: 9.373 min Scan# 2869
Delta R.T. -0.000 min
Lab File: VL042121.D
Acq: 10 Mar 2025 12:59

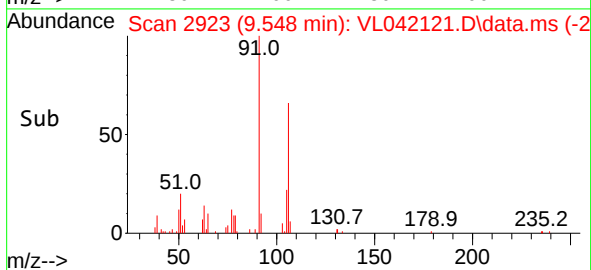
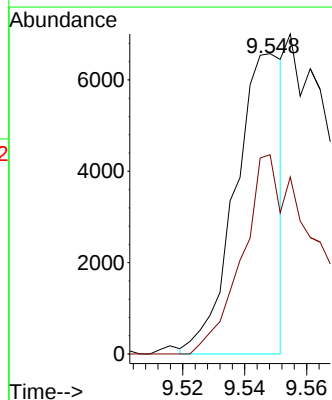
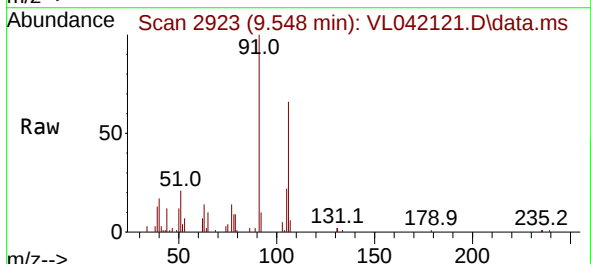
Instrument :
MSVOA_L
ClientSampleId :
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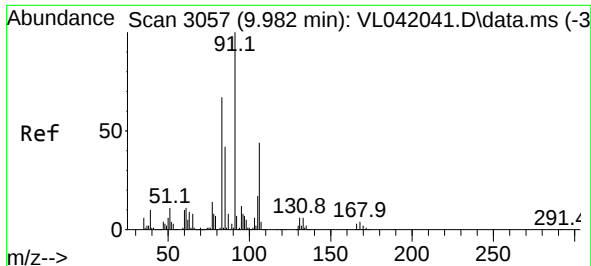
Tgt Ion: 91 Resp: 4916
Ion Ratio Lower Upper
91 100
106 33.7 24.2 36.2



#59
m/p-Xylene
Concen: 0.147 ppbv
RT: 9.548 min Scan# 2923
Delta R.T. -0.003 min
Lab File: VL042121.D
Acq: 10 Mar 2025 12:59

Tgt Ion: 91 Resp: 6927
Ion Ratio Lower Upper
91 100
106 116.9 0.0 0.0#

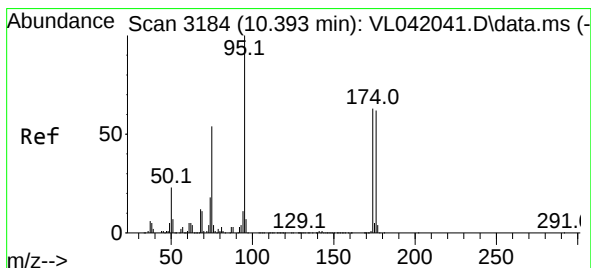
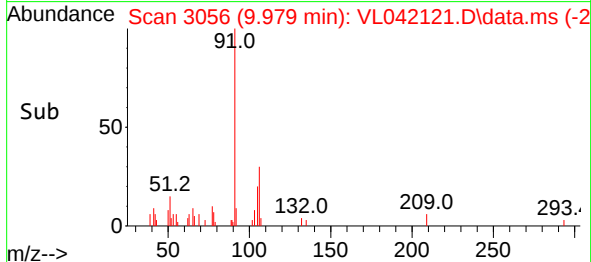
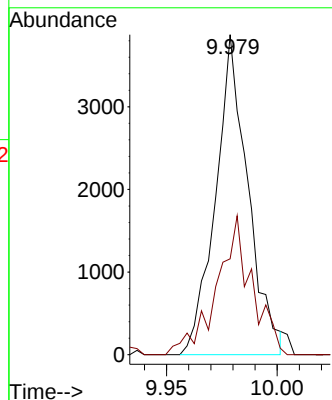
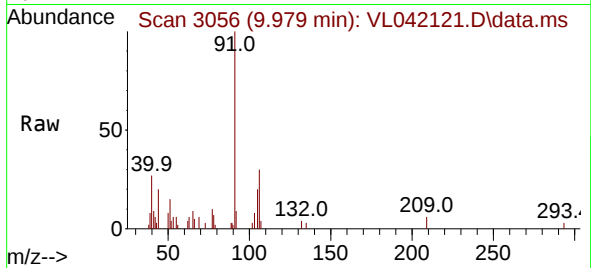




#60
o-Xylene
Concen: 0.083 ppbv
RT: 9.979 min Scan# 3057
Delta R.T. -0.003 min
Lab File: VL042121.D
Acq: 10 Mar 2025 12:59

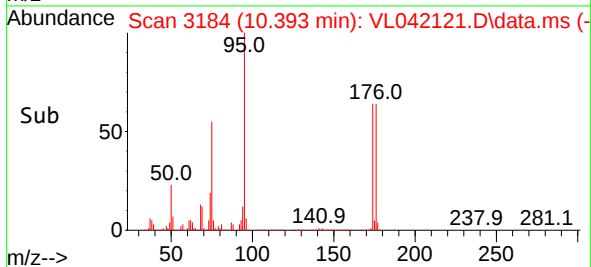
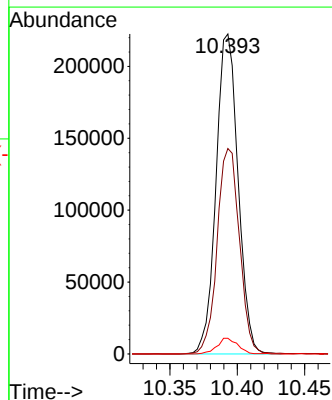
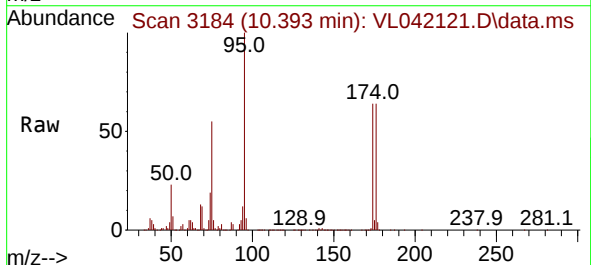
Instrument :
MSVOA_L
ClientSampleId :
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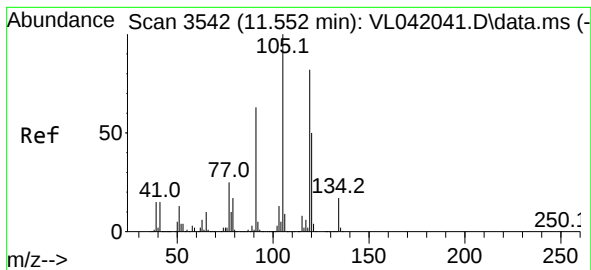
Tgt Ion: 91 Resp: 3937
Ion Ratio Lower Upper
91 100
106 47.0 22.3 66.8



#68
1-Bromo-4-Fluorobenzene
Concen: 10.227 ppbv
RT: 10.393 min Scan# 3184
Delta R.T. -0.000 min
Lab File: VL042121.D
Acq: 10 Mar 2025 12:59

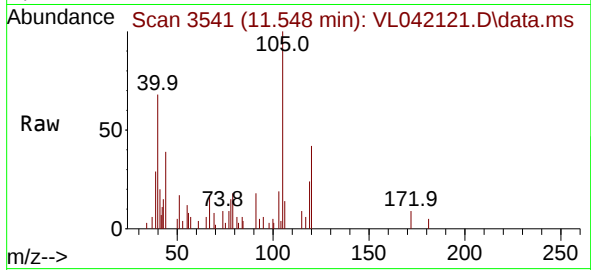
Tgt Ion: 95 Resp: 253211
Ion Ratio Lower Upper
95 100
174 65.1 51.8 77.6
175 4.7 3.9 5.9





#74
 1,2,4-Trimethylbenzene
 Concen: 0.047 ppbv
 RT: 11.548 min Scan# 31
 Delta R.T. -0.003 min
 Lab File: VL042121.D
 Acq: 10 Mar 2025 12:59

Instrument :
 MSVOA_L
 ClientSampleId :
 1



Tgt Ion:	105	Resp:	2660
Ion	Ratio	Lower	Upper
105	100		
120	42.1	40.2	60.2
91	18.3	51.4	77.2#
77	9.1	20.1	30.1#

