

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL030525\
 Data File : VL042105.D
 Acq On : 05 Mar 2025 15:37
 Operator : SY/MD
 Sample : Q1483-02DL 8X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2DL

Quant Time: Mar 06 01:09:02 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	2.810	49	157669	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.994	114	354066	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.914	117	290825	10.000	ppbv	0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.403	95	211664	9.460	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.600%

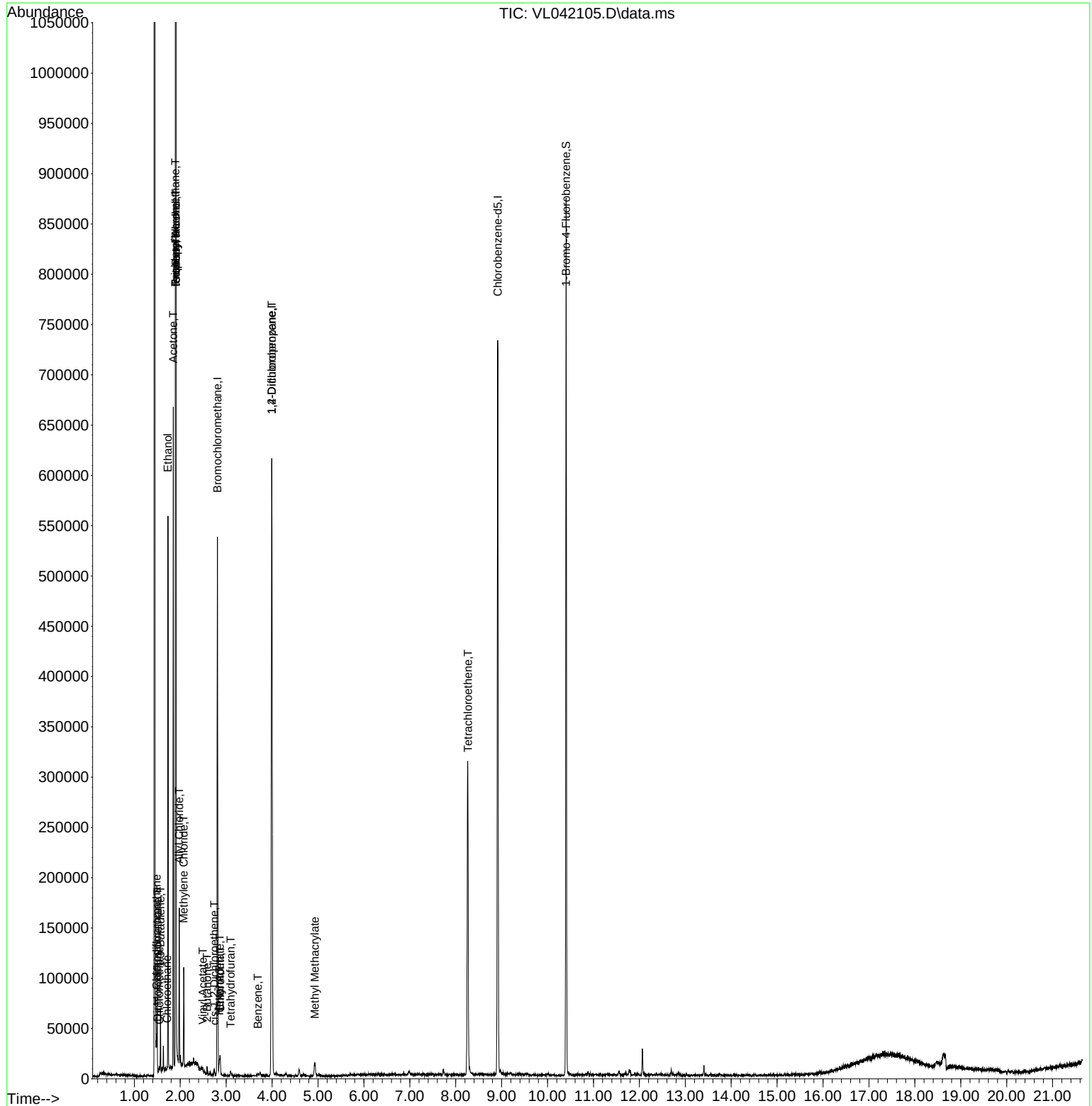
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.509	85	1454	0.089	ppbv #	80
3) Chlorodifluoromethane	1.486	51	13846	0.604	ppbv	97
4) Chloromethane	1.544	50	657	0.108	ppbv #	61
7) Chloroethane	1.713	64	163	0.070	ppbv	92
9) Propene	1.900	41	287533	30.800	ppbv	86
11) Trichlorofluoromethane	1.891	101	1739	0.106	ppbv	87
13) Ethanol	1.732	45	190776	321.920	ppbv	93
15) Acetone	1.848	43	273963	19.676	ppbv	100
16) 1,3-Butadiene	1.570	39	3516	0.543	ppbv #	14
17) tert-Butyl alcohol	1.900	59	122279	7.019	ppbv #	92
19) Isopropyl Alcohol	1.900	45	2154653	269.394	ppbv #	33
20) Methylene Chloride	2.075	84	13976	2.654	ppbv	94
21) Allyl Chloride	1.978	41	20830	2.070	ppbv #	63
23) Vinyl Acetate	2.493	43	517	0.053	ppbv #	1
25) Ethyl Acetate	2.862	43	11635	0.209	ppbv #	86
26) Hexane	2.852	57	2419	0.107	ppbv #	1
29) Chloroform	2.871	83	2765	0.091	ppbv	90
31) cis-1,2-Dichloroethene	2.745	61	1717	0.080	ppbv #	67
34) 2-Butanone	2.583	43	4370	0.158	ppbv	99
36) Benzene	3.687	78	1194	0.032	ppbv #	69
39) 1,2-Dichloropropane	3.994	63	92768	6.594	ppbv #	23
41) Tetrahydrofuran	3.098	42	1468	0.090	ppbv #	92
43) Methyl Methacrylate	4.930	69	2826	0.195	ppbv #	2
52) Tetrachloroethene	8.267	164	56347	4.441	ppbv	93

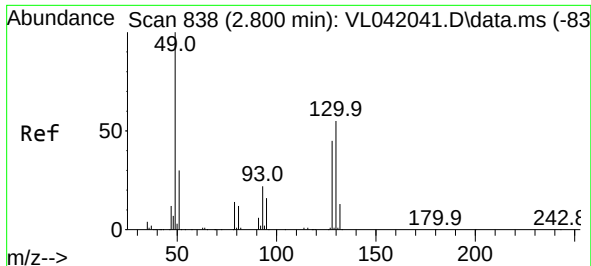
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL030525\  
Data File : VL042105.D  
Acq On    : 05 Mar 2025  15:37  
Operator  : SY/MD  
Sample    : Q1483-02DL 8X  
Misc      : 400mL/MSVOA_L  
ALS Vial  : 1    Sample Multiplier: 1
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Instrument :
MSVOA_L
ClientSampleId :
IA2DL

Quant Time: Mar 06 01:09:02 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

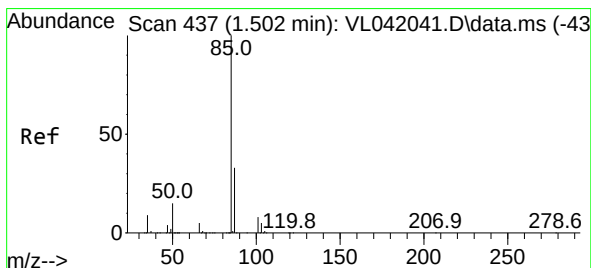
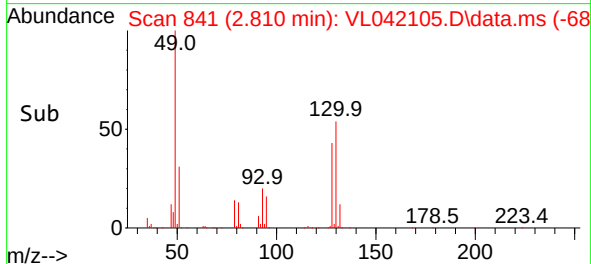
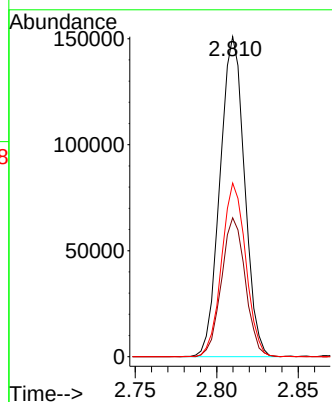
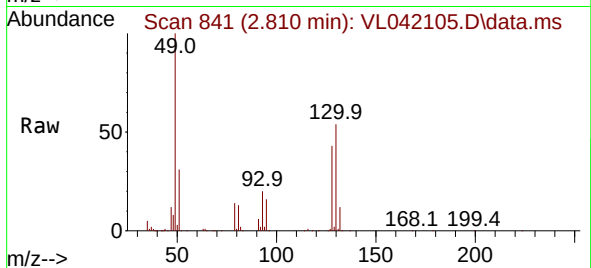




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.810 min Scan# 841
Delta R.T. 0.010 min
Lab File: VL042105.D
Acq: 05 Mar 2025 15:37

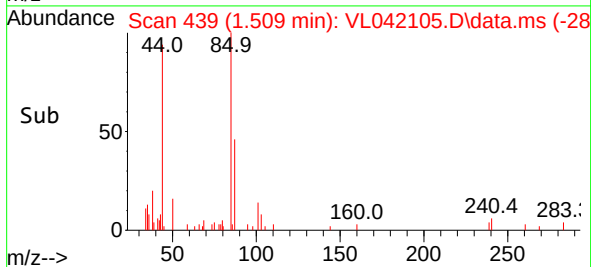
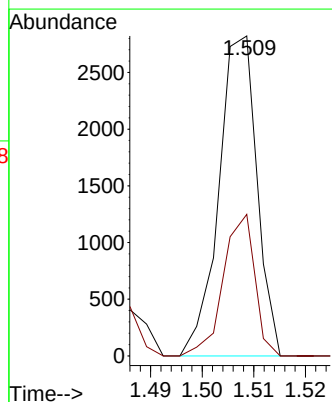
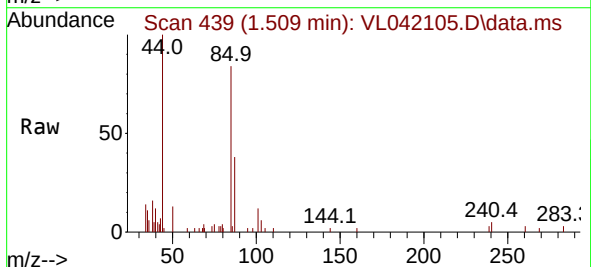
Instrument :
MSVOA_L
ClientSampleId :
IA2DL

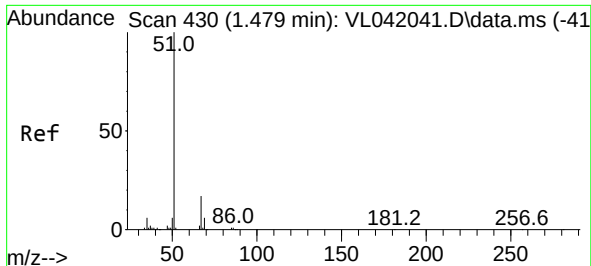
Tgt Ion: 49 Resp: 157669
Ion Ratio Lower Upper
49 100
128 42.2 21.6 64.8
130 53.3 27.8 83.4



#2
Dichlorodifluoromethane
Concen: 0.089 ppbv
RT: 1.509 min Scan# 439
Delta R.T. 0.006 min
Lab File: VL042105.D
Acq: 05 Mar 2025 15:37

Tgt Ion: 85 Resp: 1454
Ion Ratio Lower Upper
85 100
87 44.3 26.4 39.6#

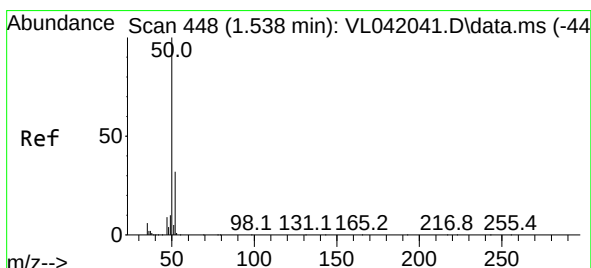
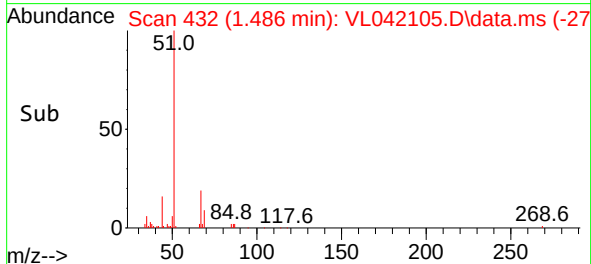
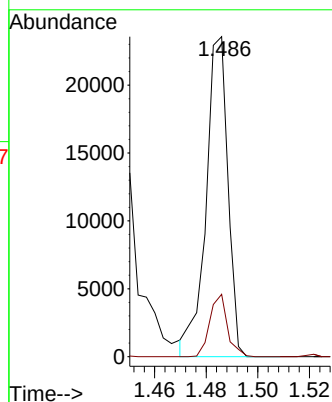
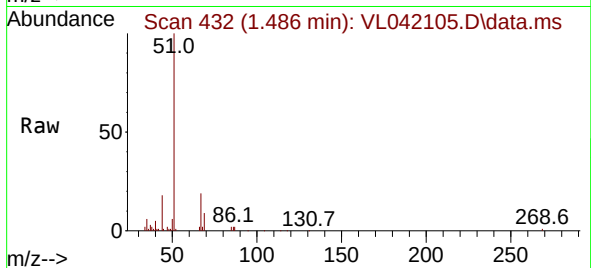




#3
Chlorodifluoromethane
Concen: 0.604 ppbv
RT: 1.486 min Scan# 41
Delta R.T. 0.007 min
Lab File: VL042105.D
Acq: 05 Mar 2025 15:37

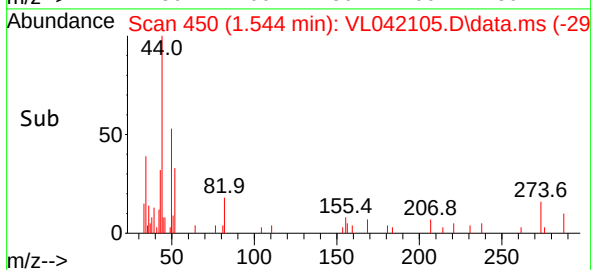
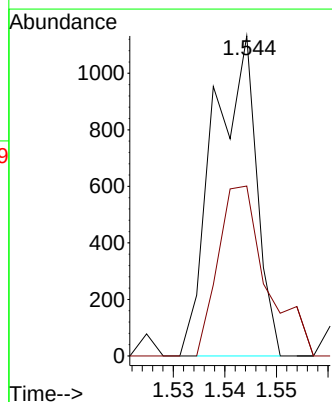
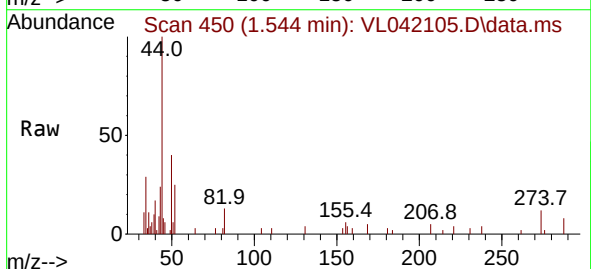
Instrument :
MSVOA_L
ClientSampleId :
IA2DL

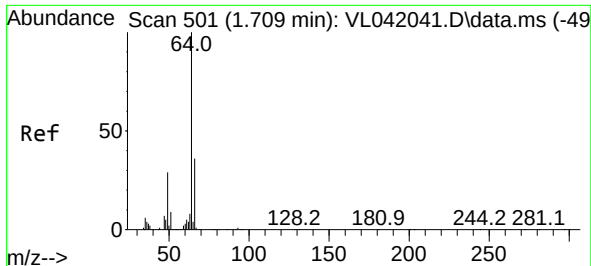
Tgt Ion: 51 Resp: 13846
Ion Ratio Lower Upper
51 100
67 15.7 13.7 20.5



#4
Chloromethane
Concen: 0.108 ppbv
RT: 1.544 min Scan# 450
Delta R.T. 0.006 min
Lab File: VL042105.D
Acq: 05 Mar 2025 15:37

Tgt Ion: 50 Resp: 657
Ion Ratio Lower Upper
50 100
52 53.1 25.4 38.0#

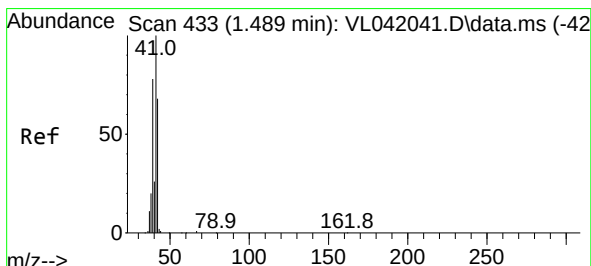
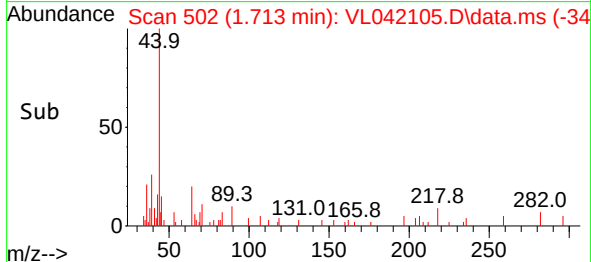
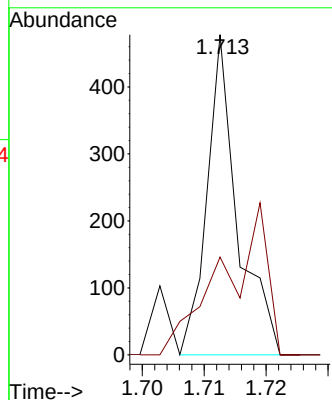
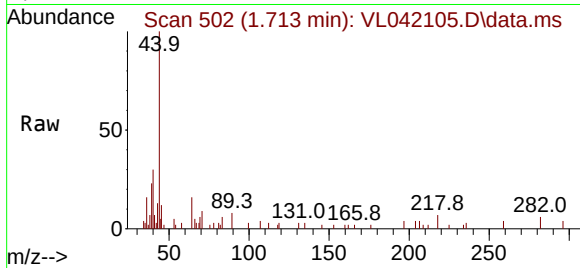




#7
Chloroethane
Concen: 0.070 ppbv
RT: 1.713 min Scan# 50
Delta R.T. 0.003 min
Lab File: VL042105.D
Acq: 05 Mar 2025 15:37

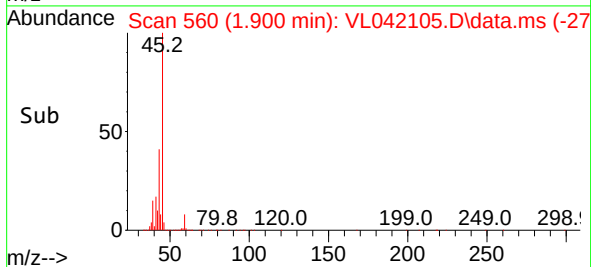
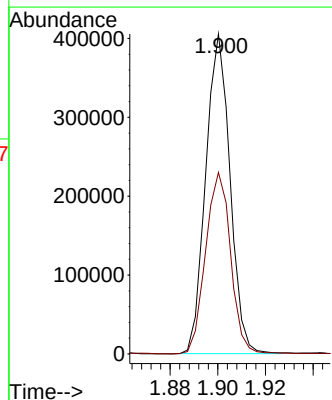
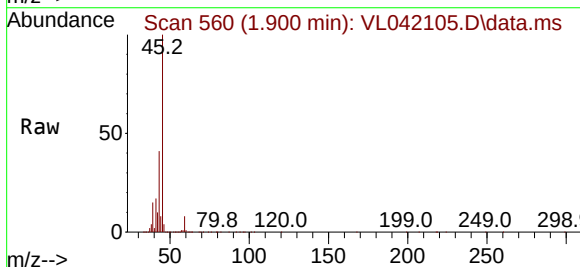
Instrument :
MSVOA_L
ClientSampleId :
IA2DL

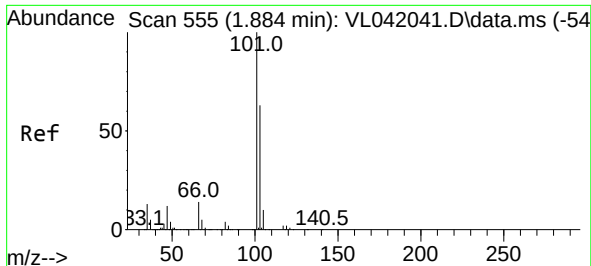
Tgt Ion: 64 Resp: 163
Ion Ratio Lower Upper
64 100
66 30.5 28.4 42.6



#9
Propene
Concen: 30.800 ppbv
RT: 1.900 min Scan# 560
Delta R.T. 0.411 min
Lab File: VL042105.D
Acq: 05 Mar 2025 15:37

Tgt Ion: 41 Resp: 287533
Ion Ratio Lower Upper
41 100
42 58.5 55.8 83.6

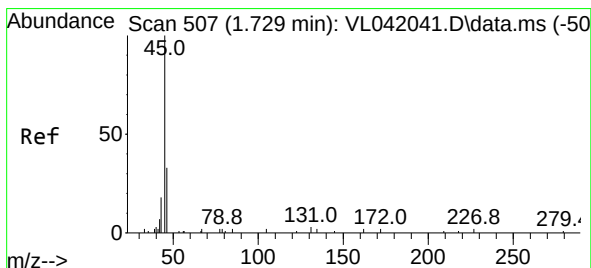
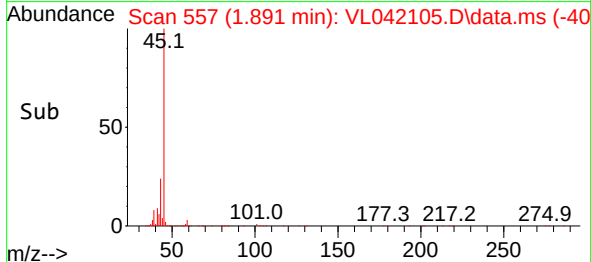
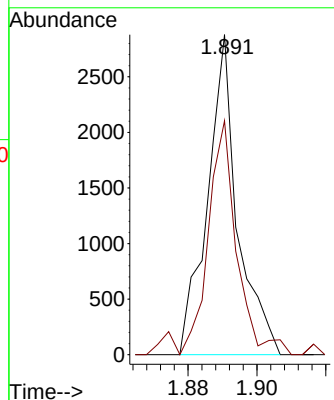
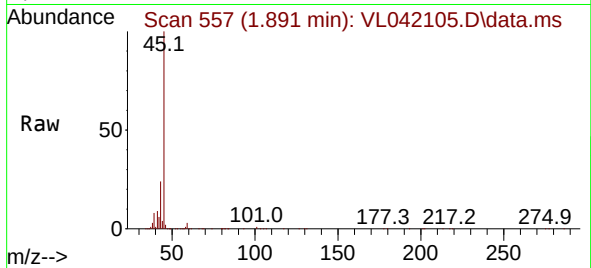




#11
 Trichlorofluoromethane
 Concen: 0.106 ppbv
 RT: 1.891 min Scan# 508
 Delta R.T. 0.006 min
 Lab File: VL042105.D
 Acq: 05 Mar 2025 15:37

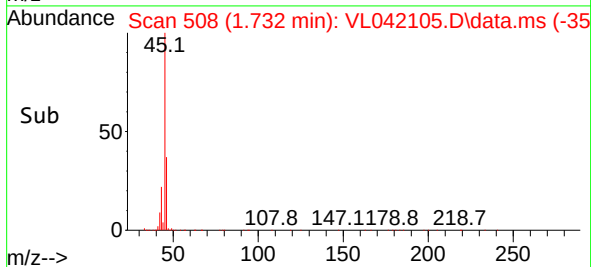
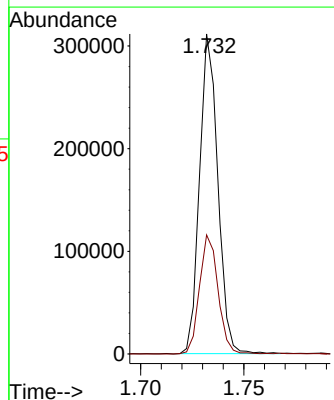
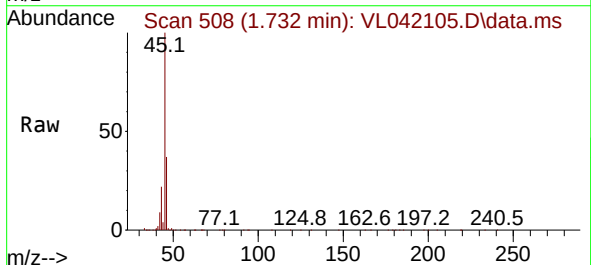
Instrument :
 MSVOA_L
 ClientSampleId :
 IA2DL

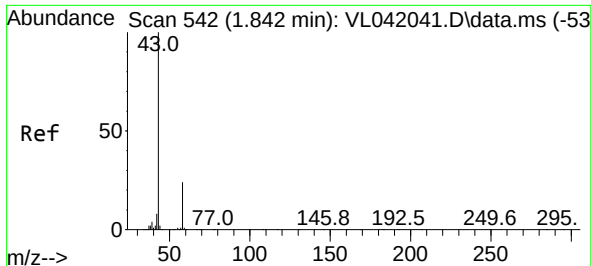
Tgt Ion:101 Resp: 1739
 Ion Ratio Lower Upper
 101 100
 103 73.1 50.6 75.8



#13
 Ethanol
 Concen: 321.920 ppbv
 RT: 1.732 min Scan# 508
 Delta R.T. 0.003 min
 Lab File: VL042105.D
 Acq: 05 Mar 2025 15:37

Tgt Ion: 45 Resp: 190776
 Ion Ratio Lower Upper
 45 100
 46 38.4 17.1 68.3

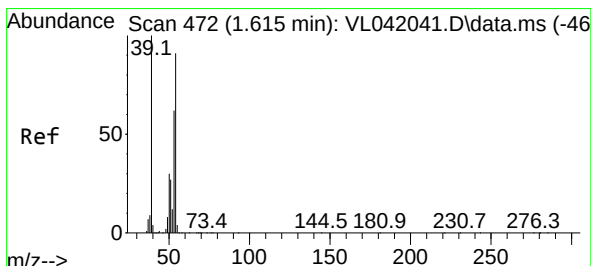
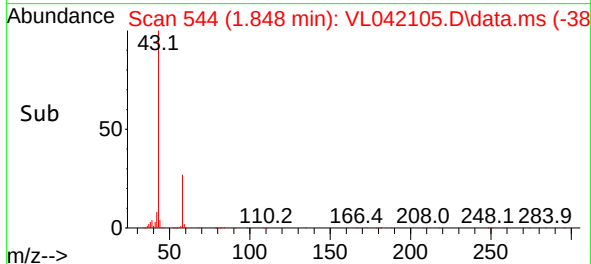
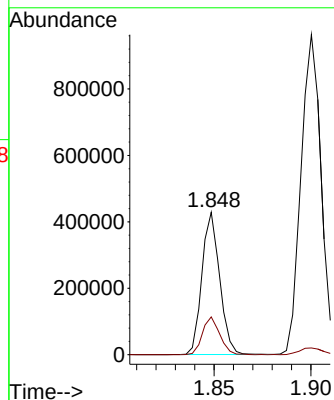
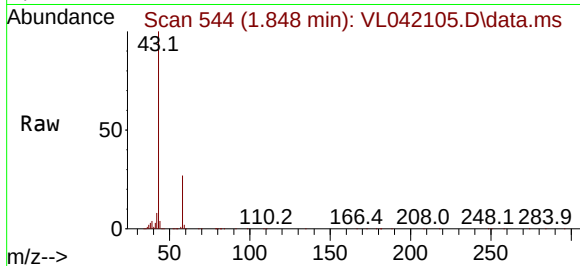




#15
Acetone
Concen: 19.676 ppbv
RT: 1.848 min Scan# 54
Delta R.T. 0.006 min
Lab File: VL042105.D
Acq: 05 Mar 2025 15:37

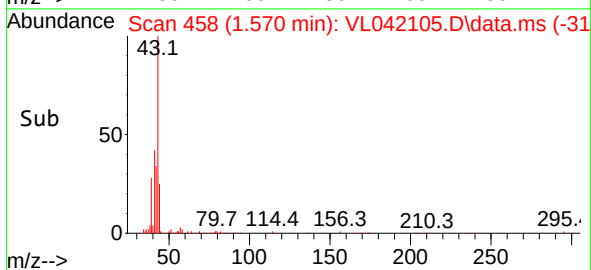
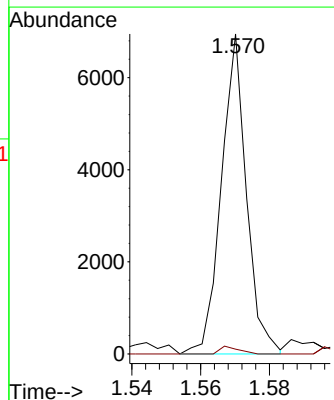
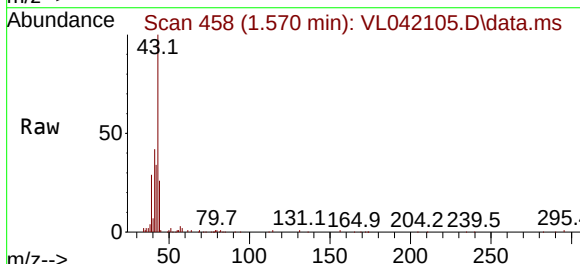
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ClientSampleId :
IA2DL

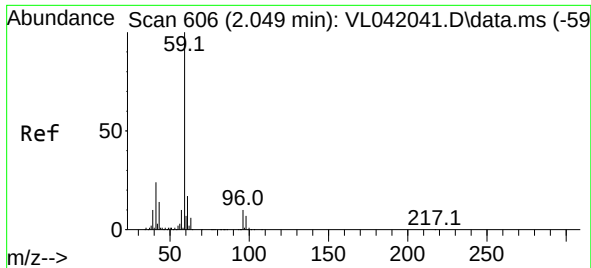
Tgt Ion: 43 Resp: 273963
Ion Ratio Lower Upper
43 100
58 25.8 20.7 31.1



#16
1,3-Butadiene
Concen: 0.543 ppbv
RT: 1.570 min Scan# 458
Delta R.T. -0.045 min
Lab File: VL042105.D
Acq: 05 Mar 2025 15:37

Tgt Ion: 39 Resp: 3516
Ion Ratio Lower Upper
39 100
54 1.8 59.6 89.4#

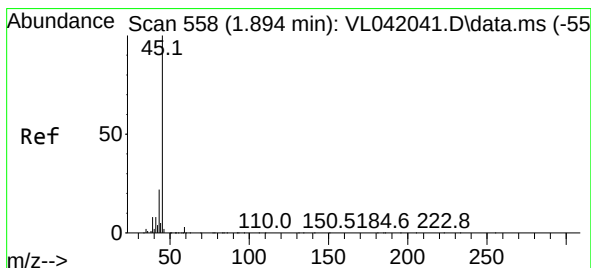
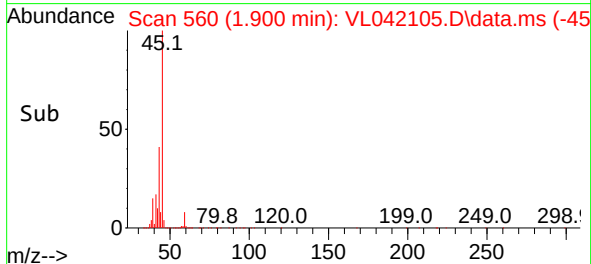
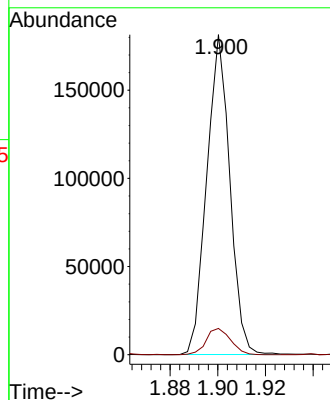
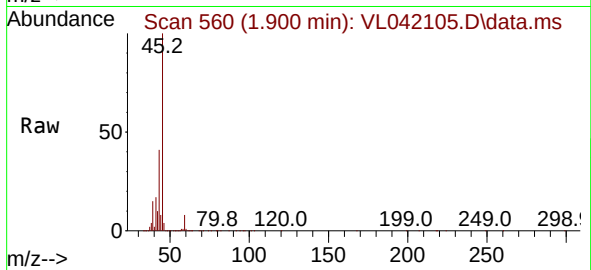




#17
tert-Butyl alcohol
Concen: 7.019 ppbv
RT: 1.900 min Scan# 50
Delta R.T. -0.149 min
Lab File: VL042105.D
Acq: 05 Mar 2025 15:37

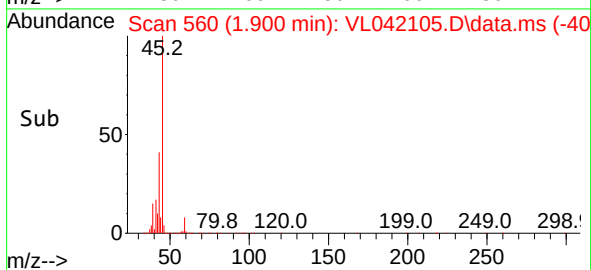
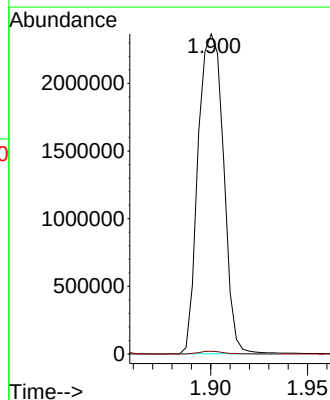
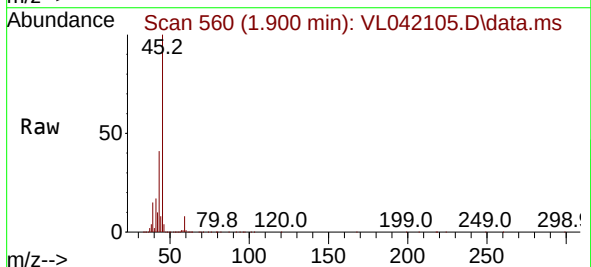
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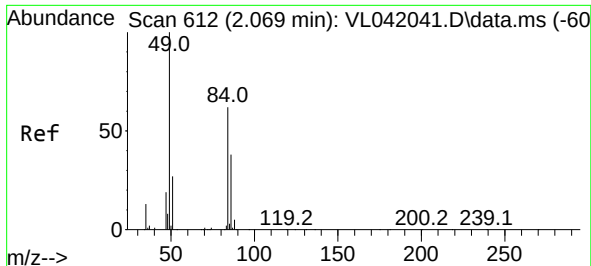
Tgt Ion: 59 Resp: 122279
Ion Ratio Lower Upper
59 100
57 8.7 9.3 13.9#



#19
Isopropyl Alcohol
Concen: 269.394 ppbv
RT: 1.900 min Scan# 560
Delta R.T. 0.007 min
Lab File: VL042105.D
Acq: 05 Mar 2025 15:37

Tgt Ion: 45 Resp: 2154653
Ion Ratio Lower Upper
45 100
58 0.8 35.3 52.9#

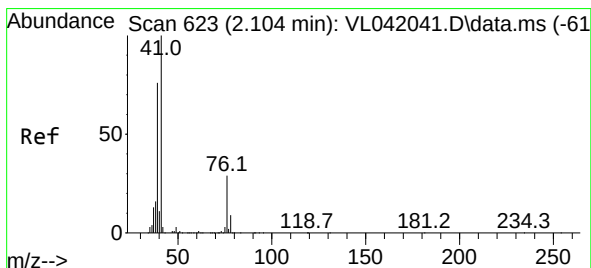
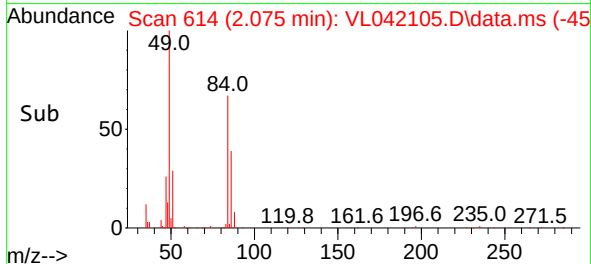
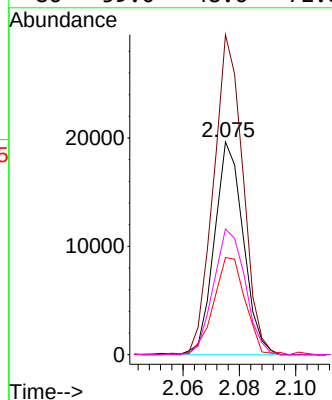
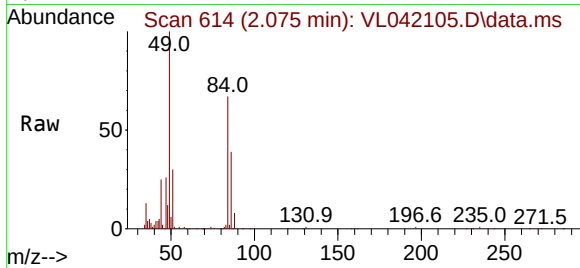




#20
Methylene Chloride
Concen: 2.654 ppbv
RT: 2.075 min Scan# 61
Delta R.T. 0.006 min
Lab File: VL042105.D
Acq: 05 Mar 2025 15:37

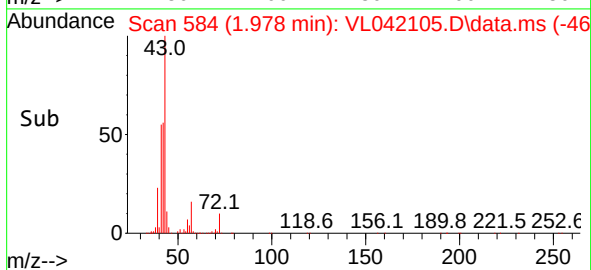
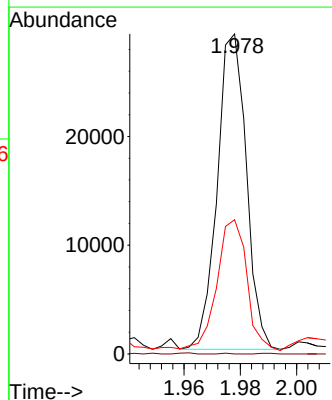
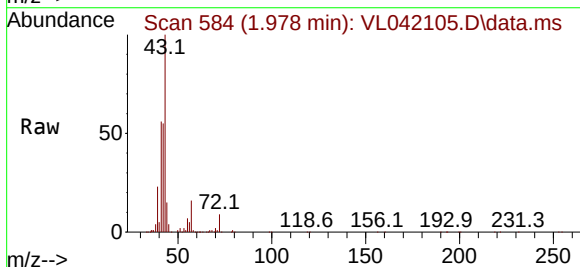
Instrument :
MSVOA_L
ClientSampleId :
IA2DL

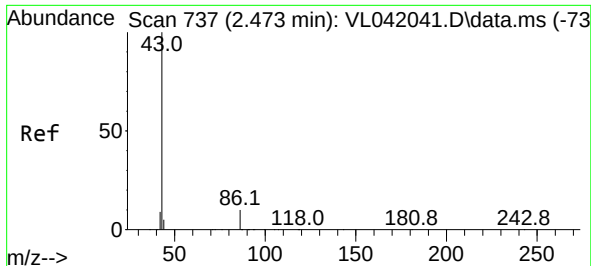
Tgt Ion:	84	Resp:	13976
Ion	Ratio	Lower	Upper
84	100		
49	150.3	130.0	195.0
51	45.1	37.4	56.0
86	59.0	48.6	72.8



#21
Allyl Chloride
Concen: 2.070 ppbv
RT: 1.978 min Scan# 584
Delta R.T. -0.126 min
Lab File: VL042105.D
Acq: 05 Mar 2025 15:37

Tgt Ion:	41	Resp:	20830
Ion	Ratio	Lower	Upper
41	100		
76	0.1	23.8	35.6#
39	52.7	63.8	95.6#

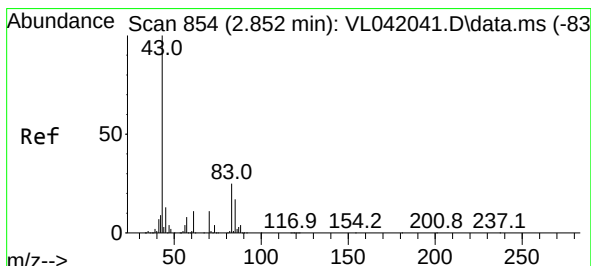
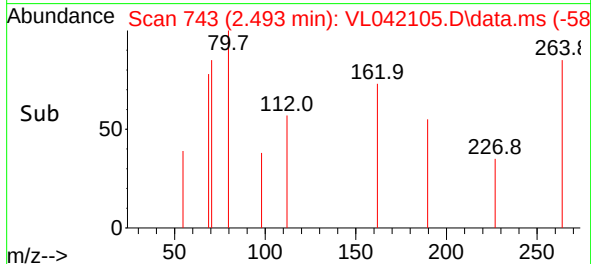
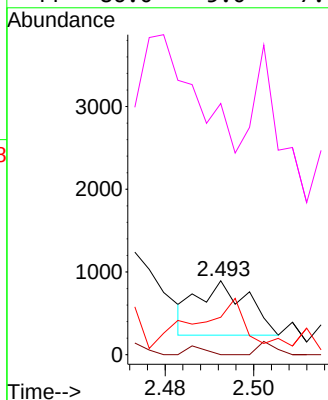
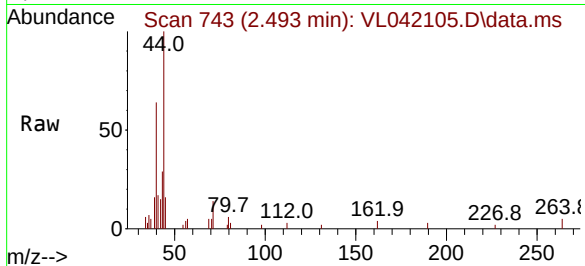




#23
 Vinyl Acetate
 Concen: 0.053 ppbv
 RT: 2.493 min Scan# 741
 Delta R.T. 0.019 min
 Lab File: VL042105.D
 Acq: 05 Mar 2025 15:37

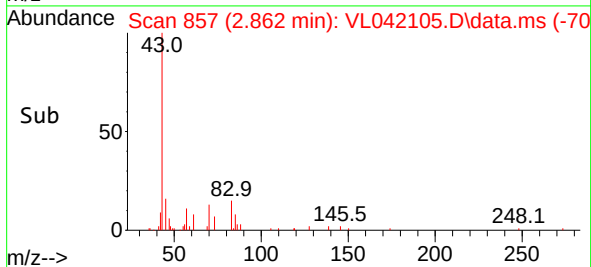
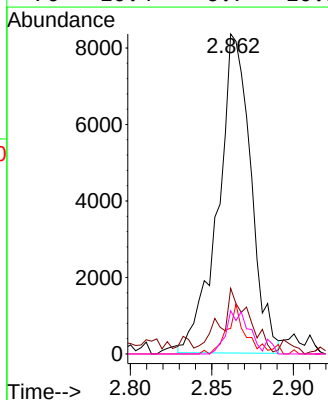
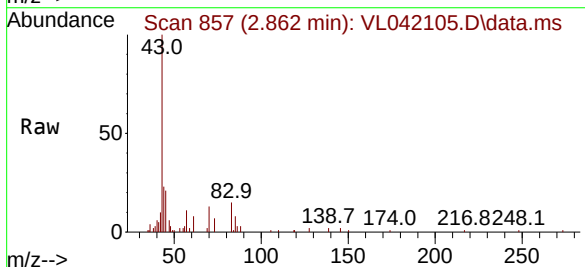
Instrument :
 MSVOA_L
 ClientSampleId :
 IA2DL

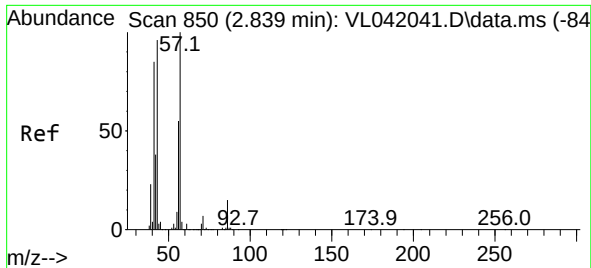
Tgt Ion:	43	Resp:	517
Ion	Ratio	Lower	Upper
43	100		
86	0.0	7.0	10.4#
42	38.8	7.6	11.4#
44	86.0	5.0	7.4#



#25
 Ethyl Acetate
 Concen: 0.209 ppbv
 RT: 2.862 min Scan# 857
 Delta R.T. 0.010 min
 Lab File: VL042105.D
 Acq: 05 Mar 2025 15:37

Tgt Ion:	43	Resp:	11635
Ion	Ratio	Lower	Upper
43	100		
45	22.5	8.1	12.1#
61	9.4	7.2	10.8
70	10.4	6.7	10.1#

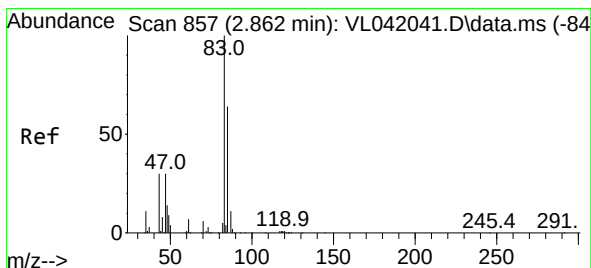
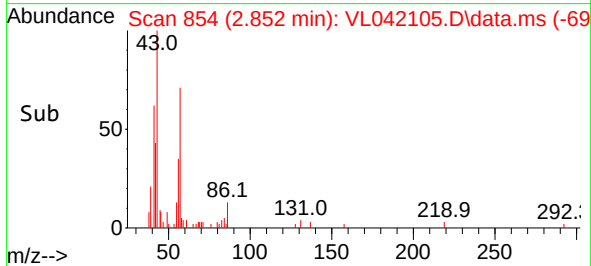
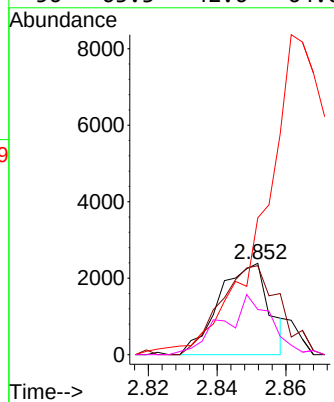
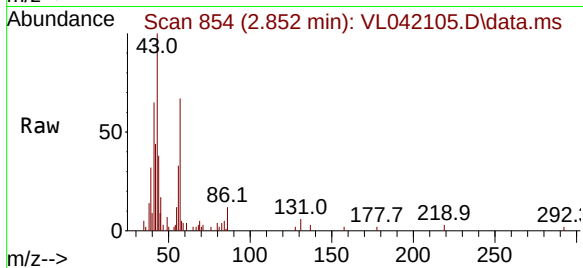




#26
Hexane
Concen: 0.107 ppbv
RT: 2.852 min Scan# 850
Delta R.T. 0.013 min
Lab File: VL042105.D
Acq: 05 Mar 2025 15:37

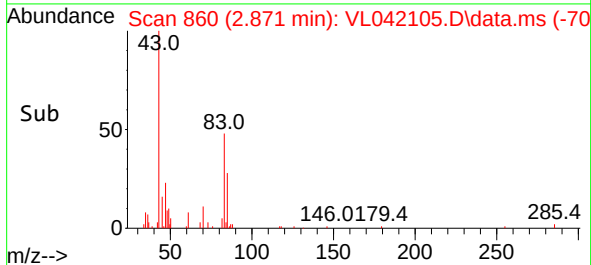
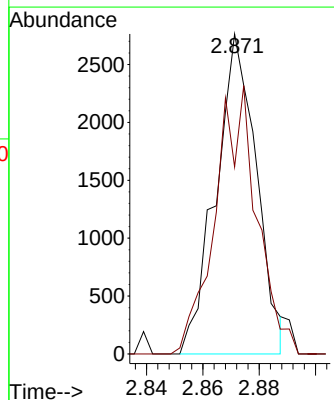
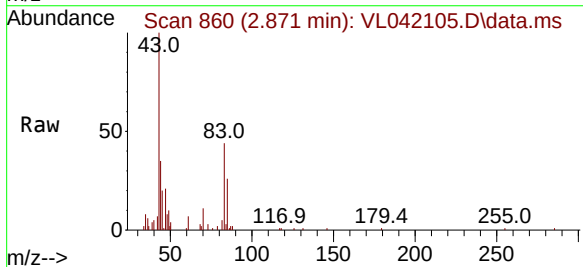
Instrument :
MSVOA_L
ClientSampleId :
IA2DL

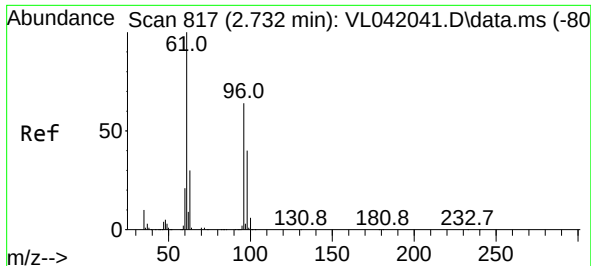
Tgt Ion: 57	Resp: 2419
Ion Ratio	Lower Upper
57 100	
41 116.9	70.6 106.0#
43 523.1	199.4 299.0#
56 63.3	42.6 64.0



#29
Chloroform
Concen: 0.091 ppbv
RT: 2.871 min Scan# 860
Delta R.T. 0.010 min
Lab File: VL042105.D
Acq: 05 Mar 2025 15:37

Tgt Ion: 83	Resp: 2765
Ion Ratio	Lower Upper
83 100	
85 56.5	51.2 76.8

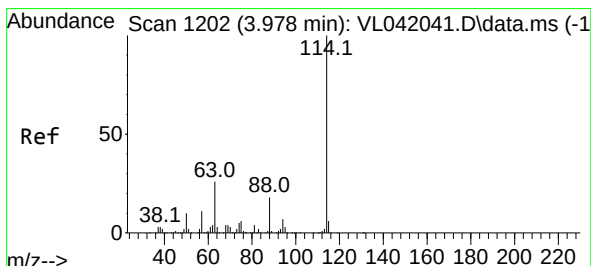
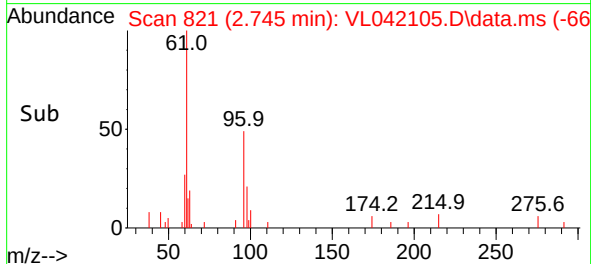
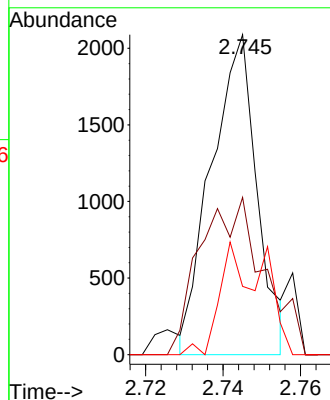
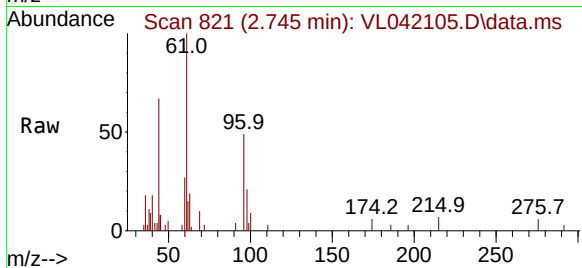




#31
 cis-1,2-Dichloroethene
 Concen: 0.080 ppbv
 RT: 2.745 min Scan# 81
 Delta R.T. 0.013 min
 Lab File: VL042105.D
 Acq: 05 Mar 2025 15:37

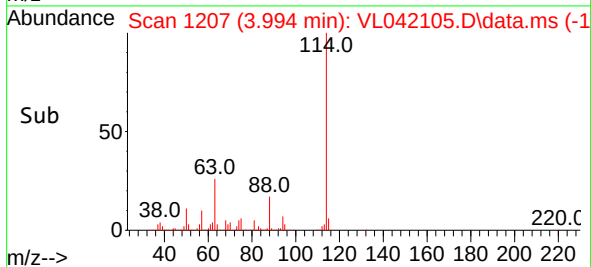
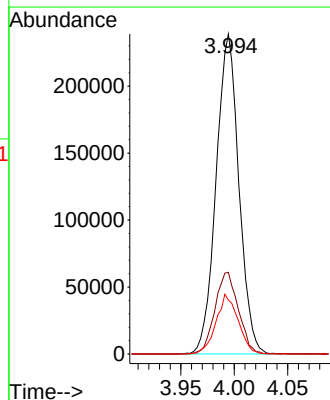
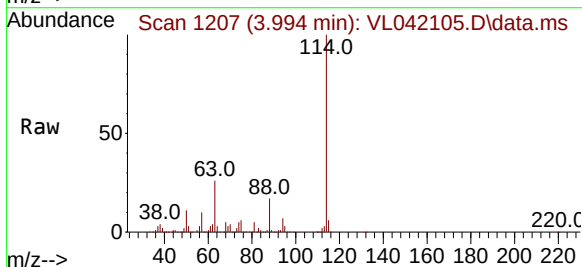
Instrument :
 MSVOA_L
 ClientSampleId :
 IA2DL

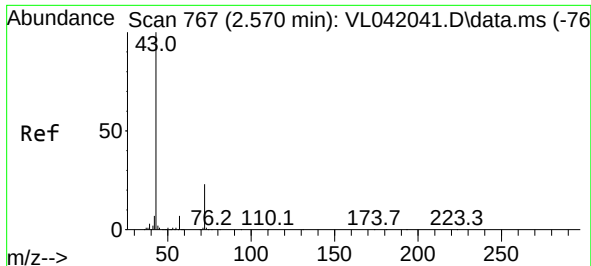
Tgt Ion: 61 Resp: 1717
 Ion Ratio Lower Upper
 61 100
 96 38.2 51.5 77.3#
 98 19.6 32.0 48.0#



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.994 min Scan# 1207
 Delta R.T. 0.016 min
 Lab File: VL042105.D
 Acq: 05 Mar 2025 15:37

Tgt Ion: 114 Resp: 354066
 Ion Ratio Lower Upper
 114 100
 63 26.3 20.1 30.1
 88 18.1 14.3 21.5

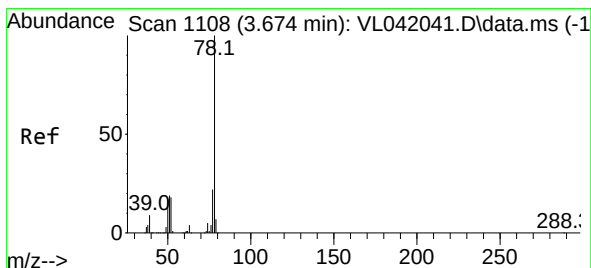
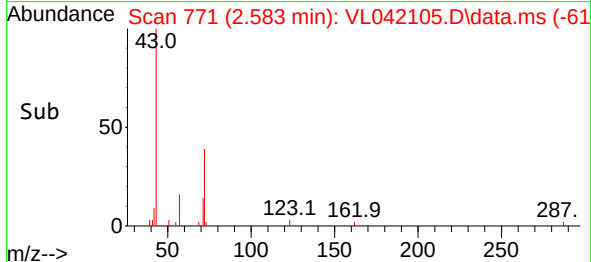
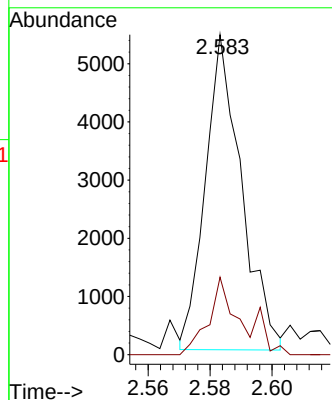
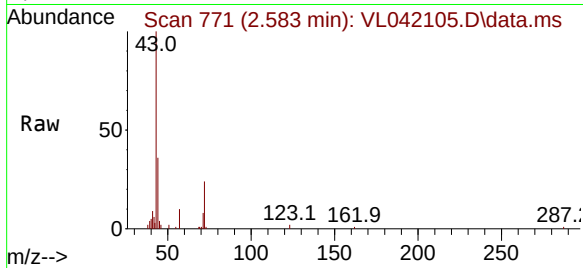




#34
2-Butanone
Concen: 0.158 ppbv
RT: 2.583 min Scan# 71
Delta R.T. 0.013 min
Lab File: VL042105.D
Acq: 05 Mar 2025 15:37

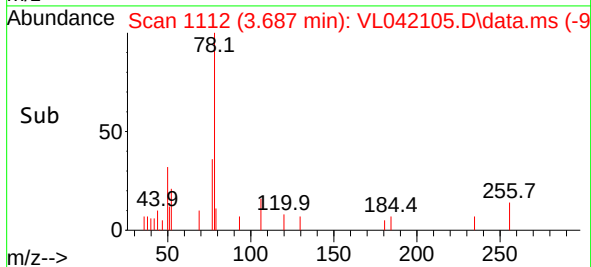
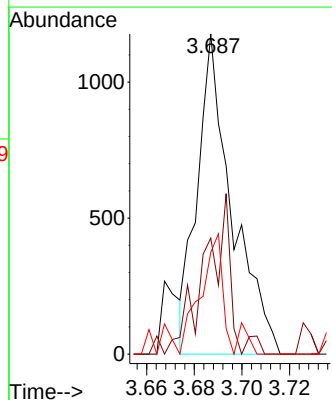
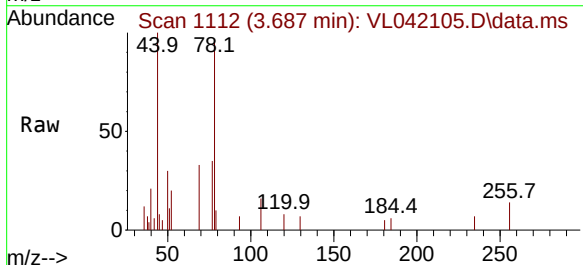
Instrument :
MSVOA_L
ClientSampleId :
IA2DL

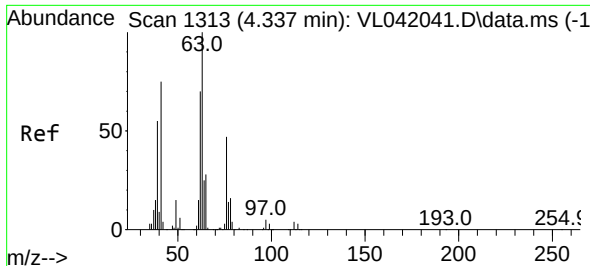
Tgt Ion: 43 Resp: 4370
Ion Ratio Lower Upper
43 100
72 22.6 18.5 27.7



#36
Benzene
Concen: 0.032 ppbv
RT: 3.687 min Scan# 1112
Delta R.T. 0.013 min
Lab File: VL042105.D
Acq: 05 Mar 2025 15:37

Tgt Ion: 78 Resp: 1194
Ion Ratio Lower Upper
78 100
77 36.2 17.7 26.5#
50 31.8 13.9 20.9#





#39

1,2-Dichloropropane

Concen: 6.594 ppbv

RT: 3.994 min Scan# 11

Delta R.T. -0.343 min

Lab File: VL042105.D

Acq: 05 Mar 2025 15:37

Instrument :

MSVOA_L

ClientSampleId :

IA2DL

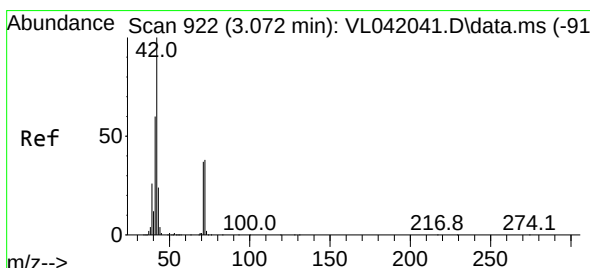
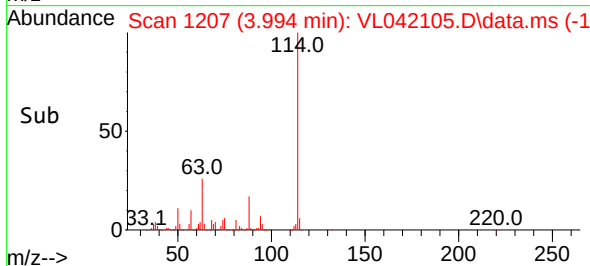
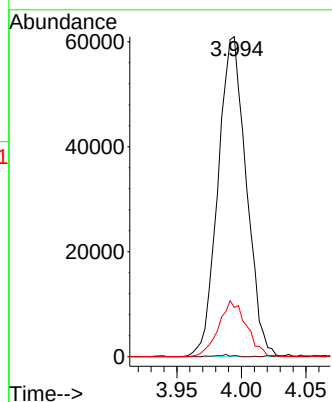
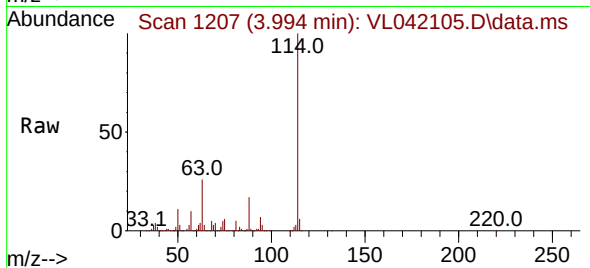
Tgt Ion: 63 Resp: 92768

Ion Ratio Lower Upper

63 100

41 0.4 60.1 90.1#

62 15.4 55.8 83.8#



#41

Tetrahydrofuran

Concen: 0.090 ppbv

RT: 3.098 min Scan# 930

Delta R.T. 0.026 min

Lab File: VL042105.D

Acq: 05 Mar 2025 15:37

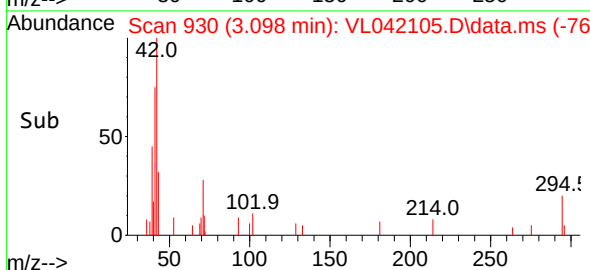
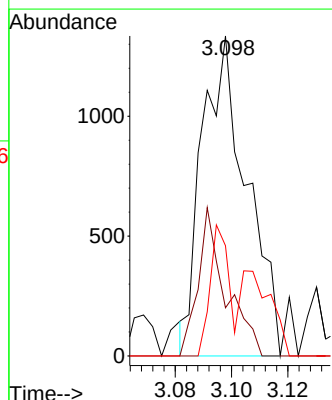
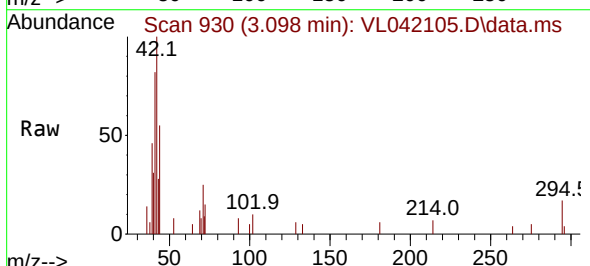
Tgt Ion: 42 Resp: 1468

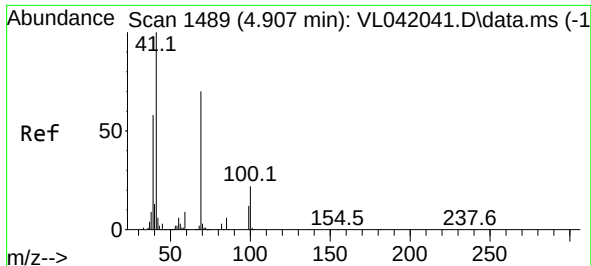
Ion Ratio Lower Upper

42 100

72 28.6 30.2 45.2#

71 35.0 28.2 42.4

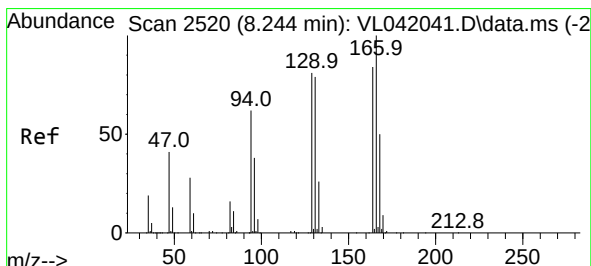
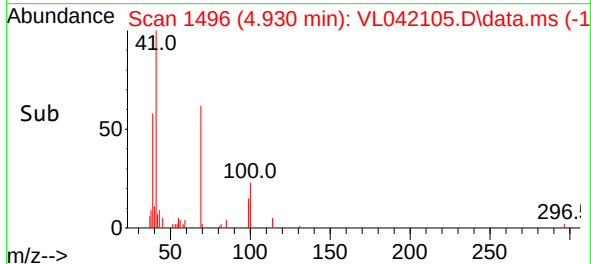
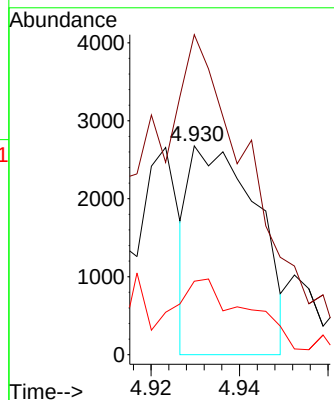
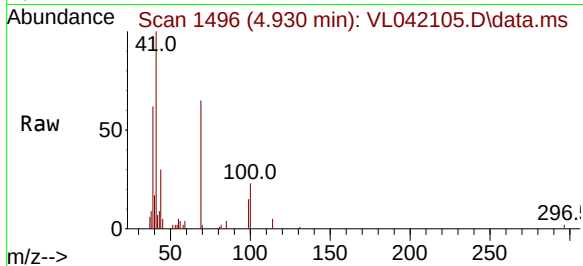




#43
Methyl Methacrylate
Concen: 0.195 ppbv
RT: 4.930 min Scan# 1489
Delta R.T. 0.023 min
Lab File: VL042105.D
Acq: 05 Mar 2025 15:37

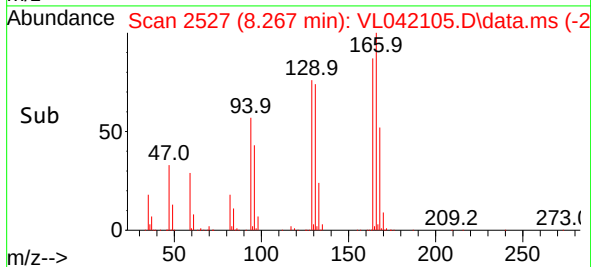
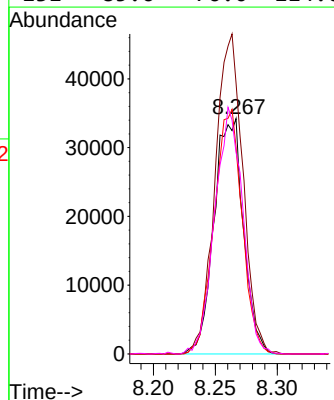
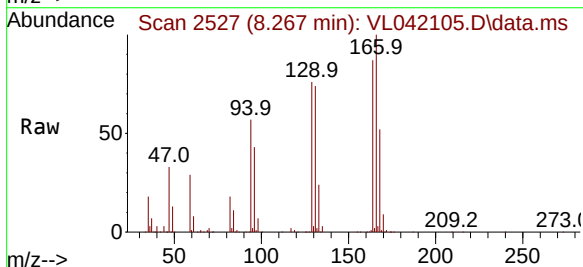
Instrument :
MSVOA_L
ClientSampleId :
IA2DL

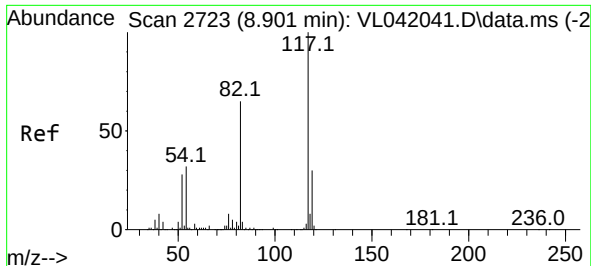
Tgt Ion: 69 Resp: 2826
Ion Ratio Lower Upper
69 100
41 282.9 118.2 177.4#
100 0.0 27.0 40.4#



#52
Tetrachloroethene
Concen: 4.441 ppbv
RT: 8.267 min Scan# 2527
Delta R.T. 0.023 min
Lab File: VL042105.D
Acq: 05 Mar 2025 15:37

Tgt Ion: 164 Resp: 56347
Ion Ratio Lower Upper
164 100
166 115.2 95.7 143.5
129 87.9 77.1 115.7
131 85.6 76.0 114.0

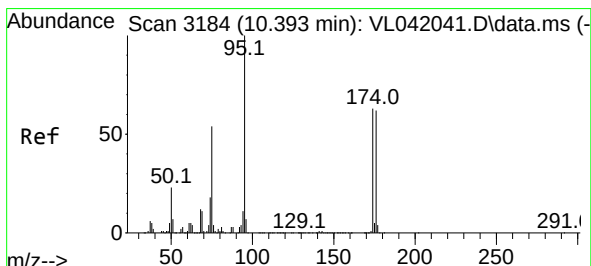
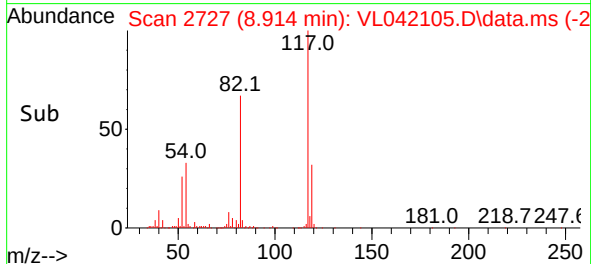
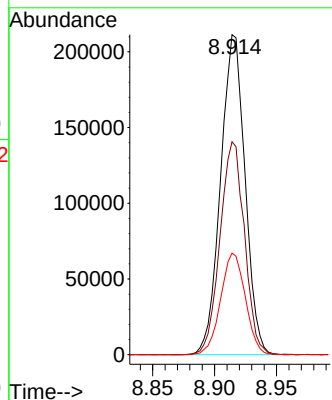
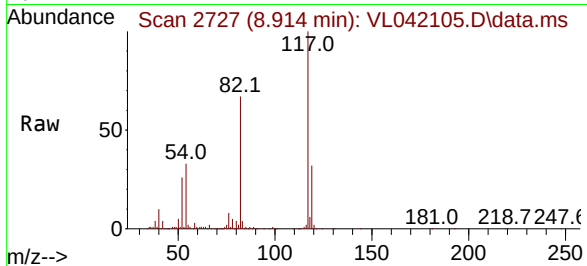




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.914 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL042105.D
Acq: 05 Mar 2025 15:37

Instrument :
MSVOA_L
ClientSampleId :
IA2DL

Tgt Ion: 117 Resp: 290825
Ion Ratio Lower Upper
117 100
82 66.5 55.0 82.6
119 32.1 25.9 38.9



#68
1-Bromo-4-Fluorobenzene
Concen: 9.460 ppbv
RT: 10.403 min Scan# 3187
Delta R.T. 0.010 min
Lab File: VL042105.D
Acq: 05 Mar 2025 15:37

Tgt Ion: 95 Resp: 211664
Ion Ratio Lower Upper
95 100
174 62.5 51.8 77.6
175 4.4 3.9 5.9

