

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042360.D
 Acq On : 17 Apr 2025 16:44
 Operator : SY/MD
 Sample : Q1665-15DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B14-1-3242025DL

Quant Time: Apr 18 02:38:31 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)

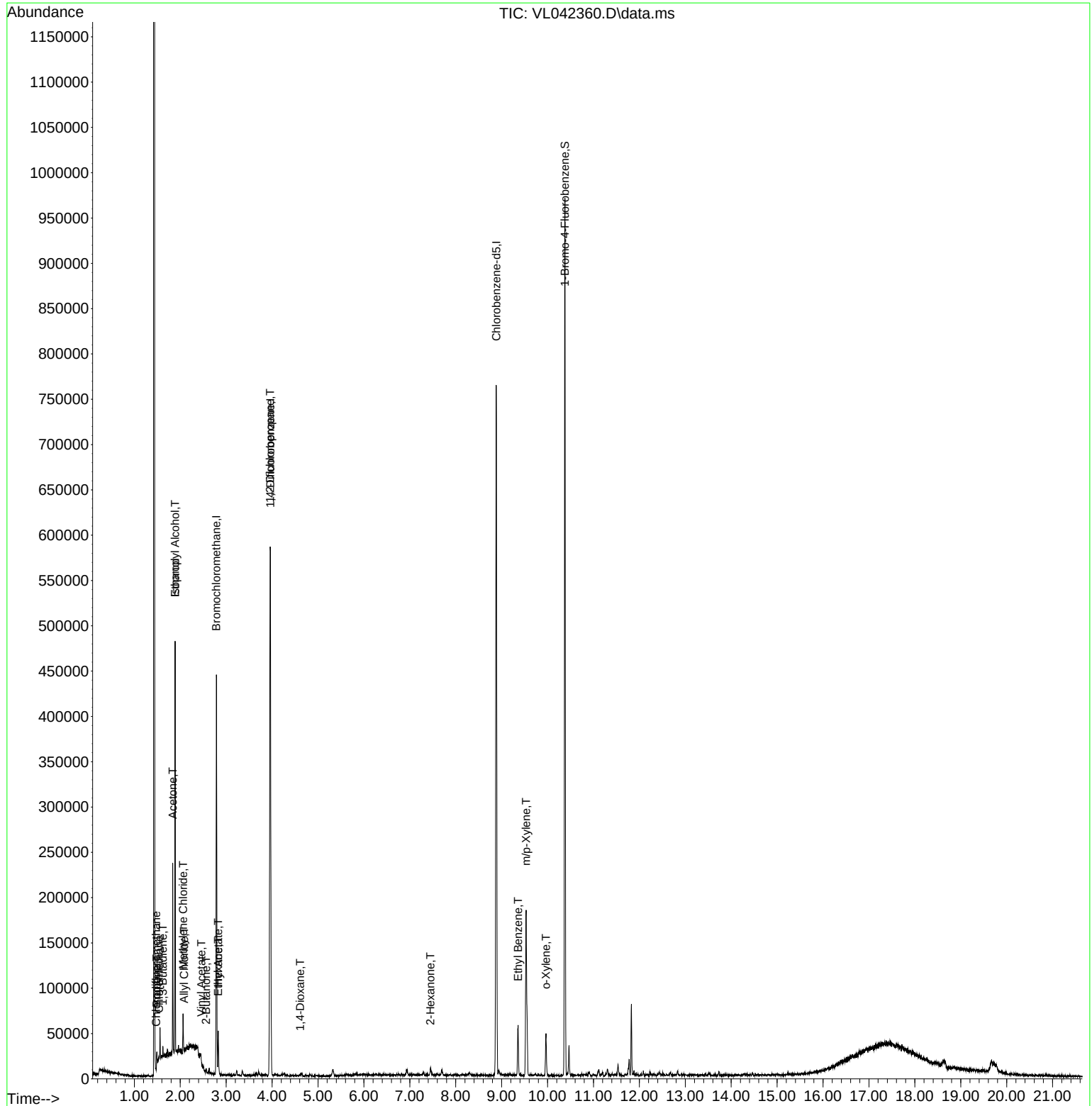
Internal Standards						
1) Bromochloromethane	2.787	49	121918	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	347081	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	308280	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	259047	10.226	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.300%
Target Compounds						
					Qvalue	
3) Chlorodifluoromethane	1.476	51	1686	0.082	ppbv #	88
4) Chloromethane	1.535	50	771	0.090	ppbv #	65
9) Propene	1.489	41	2087	0.223	ppbv	85
13) Ethanol	1.887	45	188363	126.866	ppbv #	24
15) Acetone	1.836	43	84869	4.252	ppbv	100
16) 1,3-Butadiene	1.619	39	934	0.098	ppbv #	9
19) Isopropyl Alcohol	1.887	45	188363	16.989	ppbv #	52
20) Methylene Chloride	2.062	84	5840	0.747	ppbv #	59
21) Allyl Chloride	2.085	41	610	0.044	ppbv #	1
23) Vinyl Acetate	2.460	43	887	0.110	ppbv #	1
25) Ethyl Acetate	2.823	43	7846	0.159	ppbv #	77
26) Hexane	2.826	57	10934	0.549	ppbv #	34
34) 2-Butanone	2.564	43	2970	0.108	ppbv	91
39) 1,2-Dichloropropane	3.959	63	93853	6.728	ppbv #	21
40) 1,4-Dioxane	4.613	88	360	0.047	ppbv #	1
51) 2-Hexanone	7.448	43	5539	0.135	ppbv #	96
58) Ethyl Benzene	9.358	91	30946	0.507	ppbv	93
59) m/p-Xylene	9.532	91	89850	1.826	ppbv #	86
60) o-Xylene	9.966	91	20222	0.408	ppbv	97

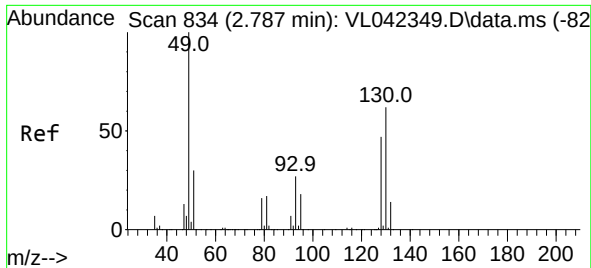
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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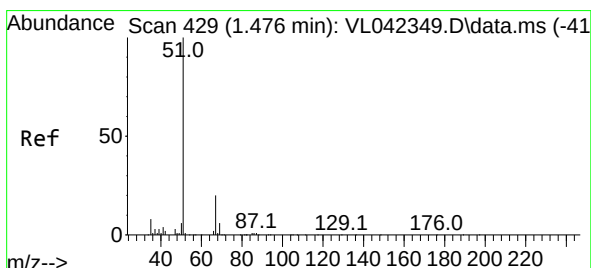
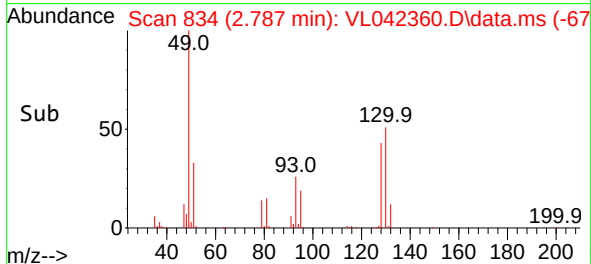
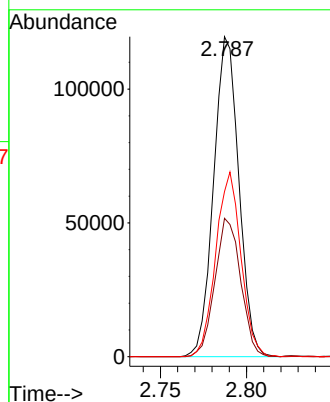
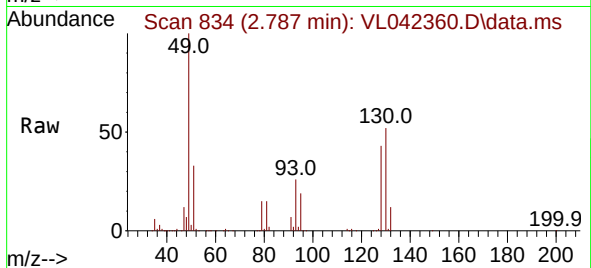




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 834
Delta R.T. 0.000 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44

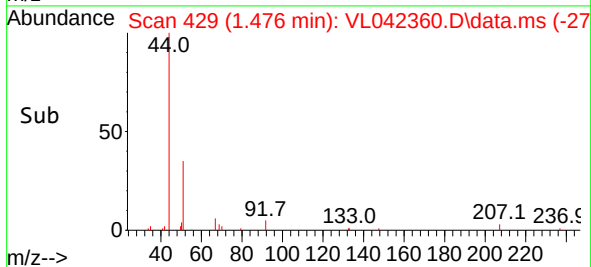
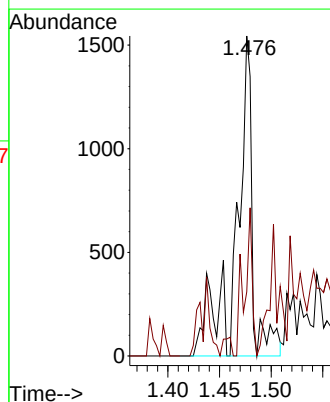
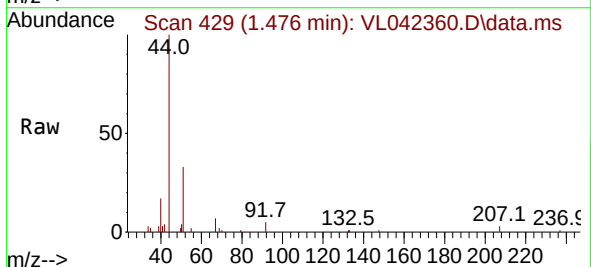
Instrument :
MSVOA_L
ClientSampleId :
IA-B14-1-3242025DL

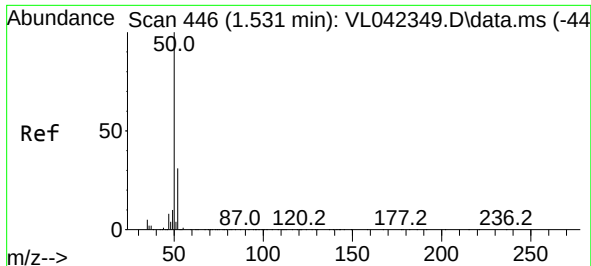
Tgt Ion: 49 Resp: 121918
Ion Ratio Lower Upper
49 100
128 44.1 22.8 68.4
130 57.9 29.3 88.0



#3
Chlorodifluoromethane
Concen: 0.082 ppbv
RT: 1.476 min Scan# 429
Delta R.T. 0.000 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44

Tgt Ion: 51 Resp: 1686
Ion Ratio Lower Upper
51 100
67 25.6 16.2 24.4#

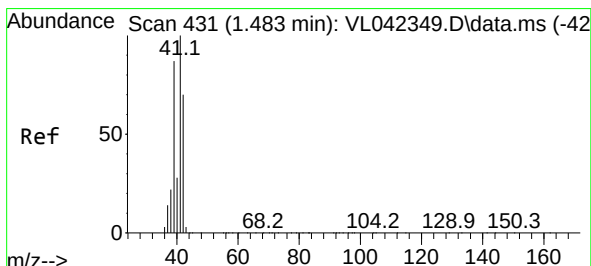
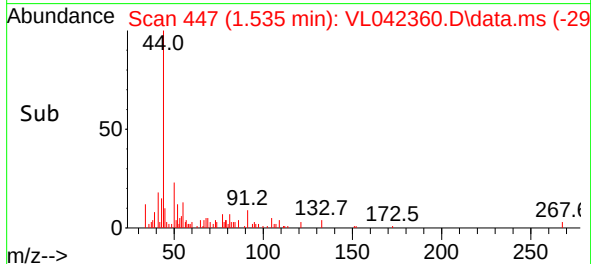
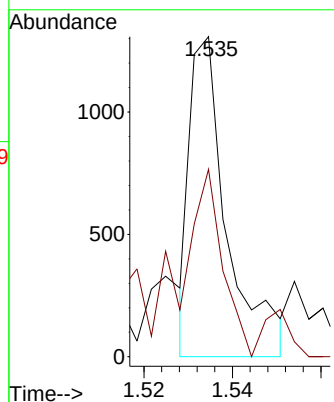
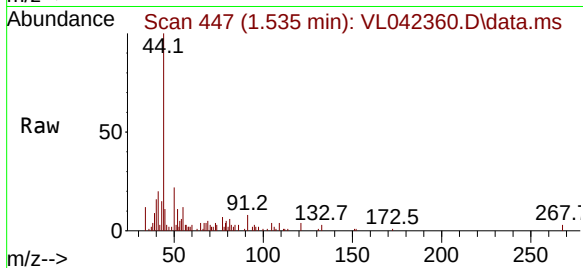




#4
Chloromethane
Concen: 0.090 ppbv
RT: 1.535 min Scan# 446
Delta R.T. 0.003 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44

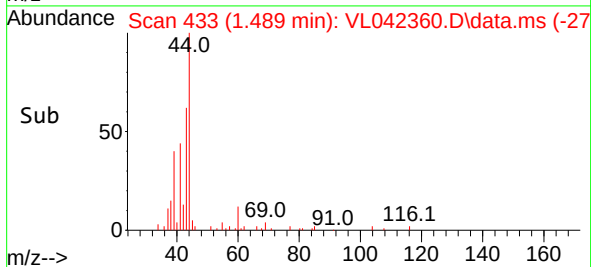
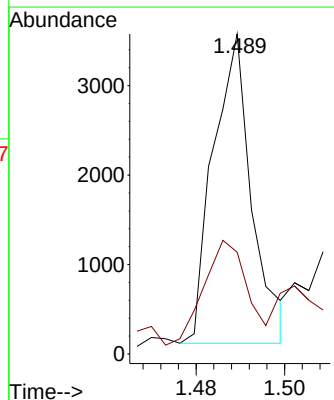
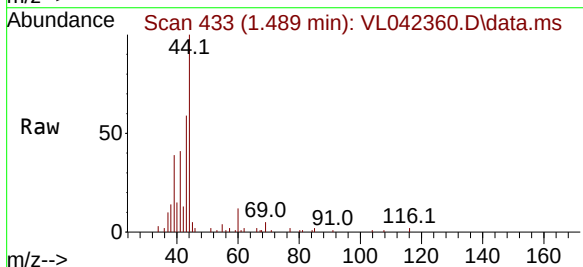
Instrument :
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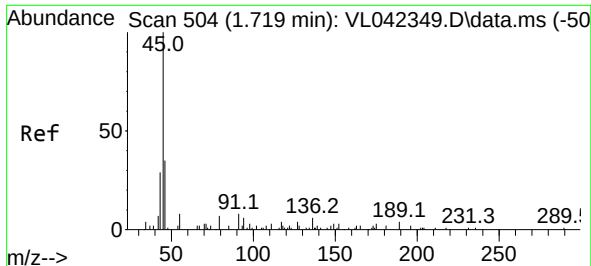
Tgt Ion: 50 Resp: 771
Ion Ratio Lower Upper
50 100
52 49.9 24.7 37.1#



#9
Propene
Concen: 0.223 ppbv
RT: 1.489 min Scan# 433
Delta R.T. 0.007 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44

Tgt Ion: 41 Resp: 2087
Ion Ratio Lower Upper
41 100
42 82.3 56.2 84.4

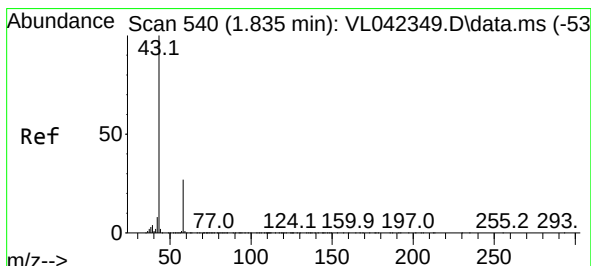
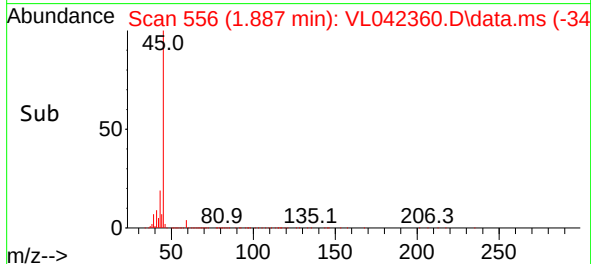
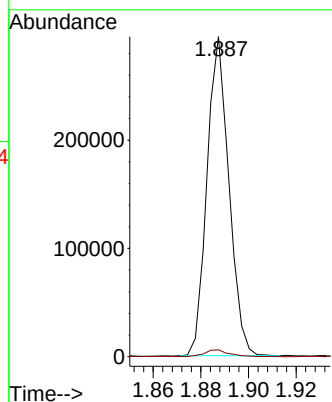
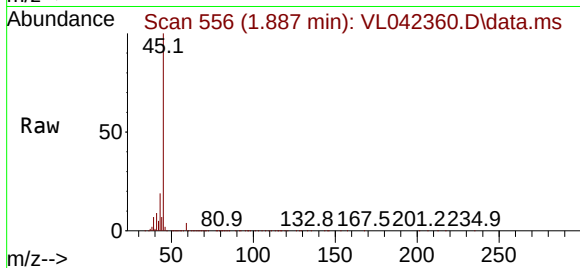




#13
Ethanol
Concen: 126.866 ppbv
RT: 1.887 min Scan# 51
Delta R.T. 0.169 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44

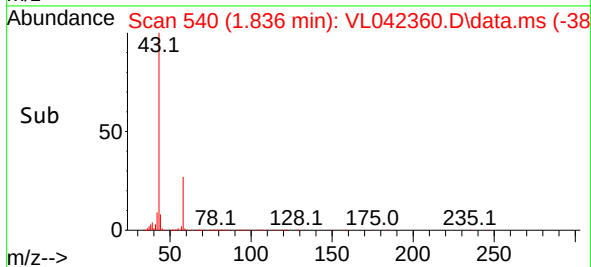
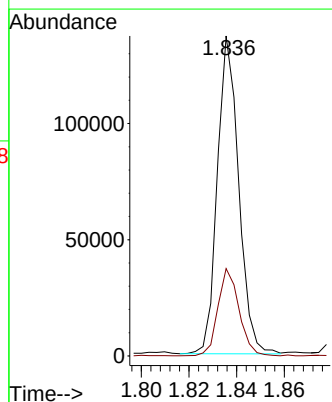
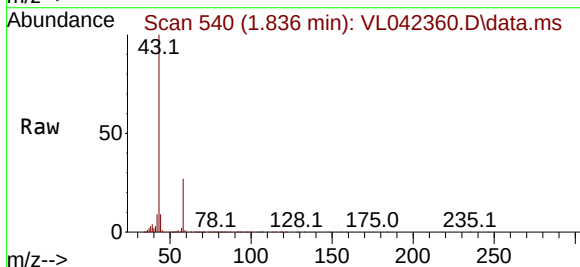
Instrument :
MSVOA_L
ClientSampleId :
IA-B14-1-3242025DL

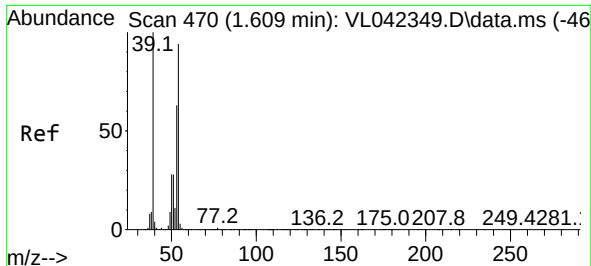
Tgt Ion: 45 Resp: 188363
Ion Ratio Lower Upper
45 100
46 0.0 21.9 87.7#



#15
Acetone
Concen: 4.252 ppbv
RT: 1.836 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44

Tgt Ion: 43 Resp: 84869
Ion Ratio Lower Upper
43 100
58 27.8 22.4 33.6

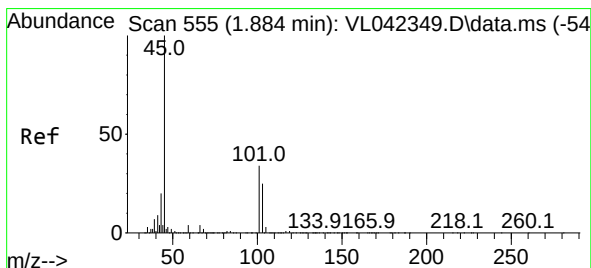
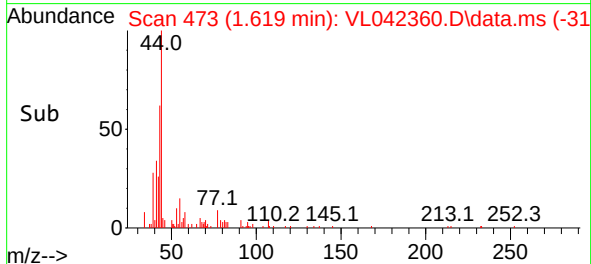
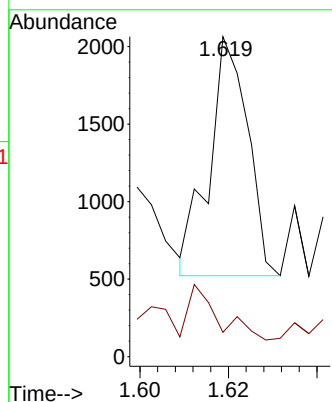
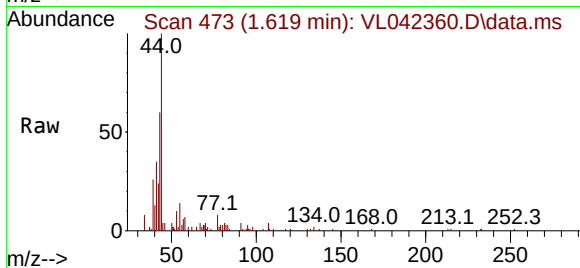




#16
1,3-Butadiene
Concen: 0.098 ppbv
RT: 1.619 min Scan# 473
Delta R.T. 0.010 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44

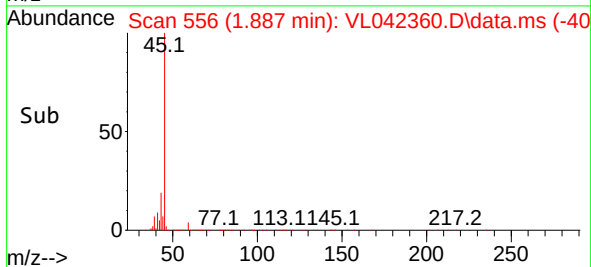
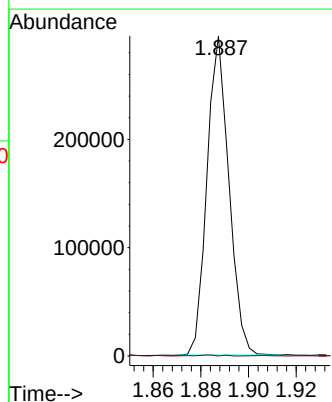
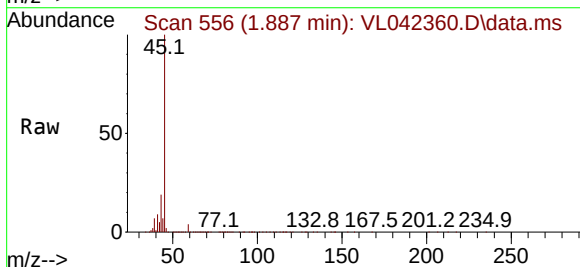
Instrument :
MSVOA_L
ClientSampleId :
IA-B14-1-3242025DL

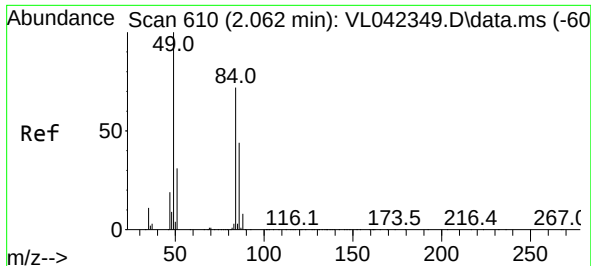
Tgt Ion: 39 Resp: 934
Ion Ratio Lower Upper
39 100
54 0.0 64.9 97.3#



#19
Isopropyl Alcohol
Concen: 16.989 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.003 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44

Tgt Ion: 45 Resp: 188363
Ion Ratio Lower Upper
45 100
58 12.5 34.5 51.7#

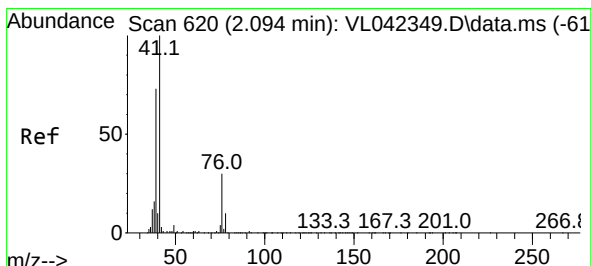
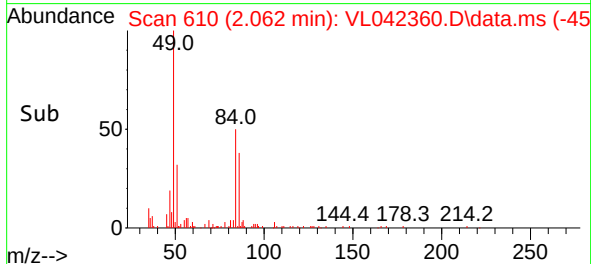
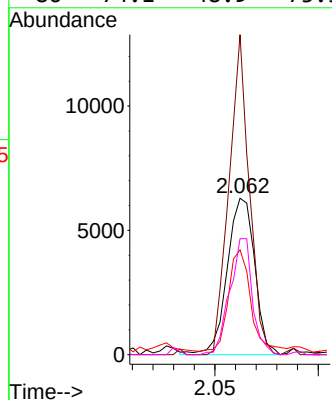
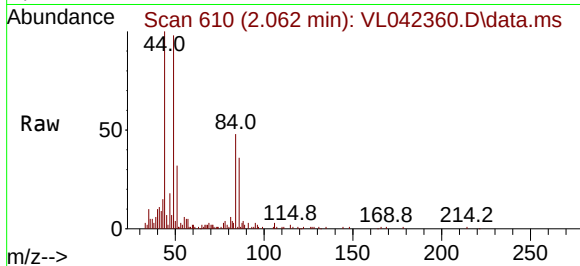




#20
Methylene Chloride
Concen: 0.747 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44

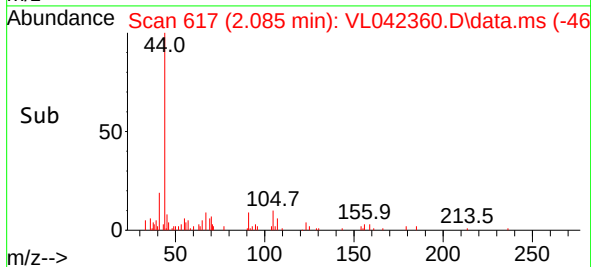
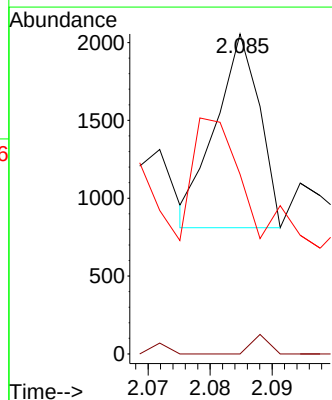
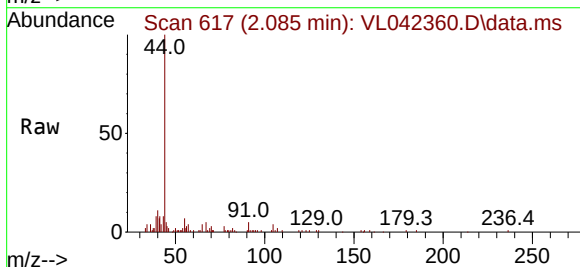
Instrument :
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IA-B14-1-3242025DL

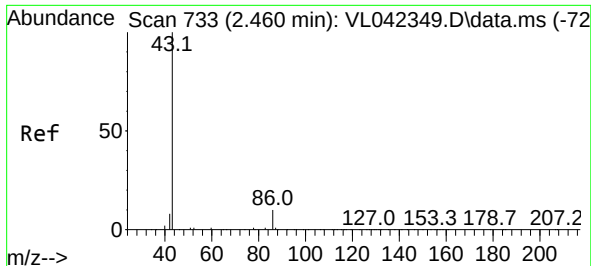
Tgt Ion:	84	Resp:	5840
Ion	Ratio	Lower	Upper
84	100		
49	204.5	111.6	167.4#
51	66.1	35.1	52.7#
86	74.1	48.9	73.3#



#21
Allyl Chloride
Concen: 0.044 ppbv
RT: 2.085 min Scan# 617
Delta R.T. -0.010 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44

Tgt Ion:	41	Resp:	610
Ion	Ratio	Lower	Upper
41	100		
76	3.9	24.8	37.2#
39	190.5	60.6	90.8#

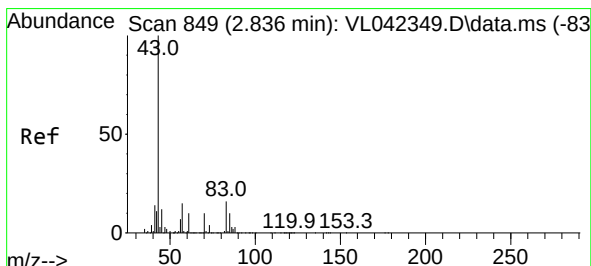
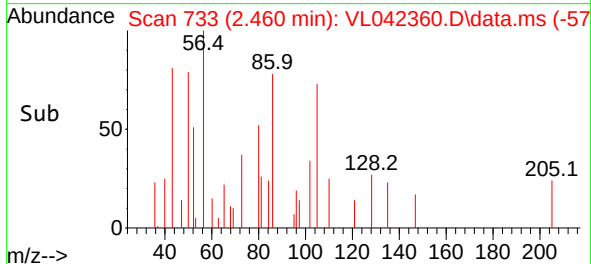
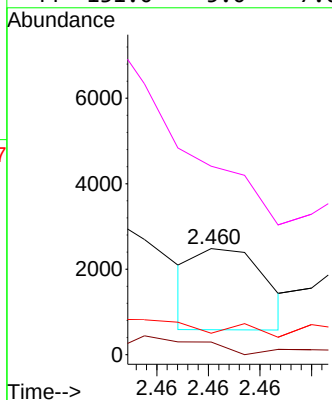
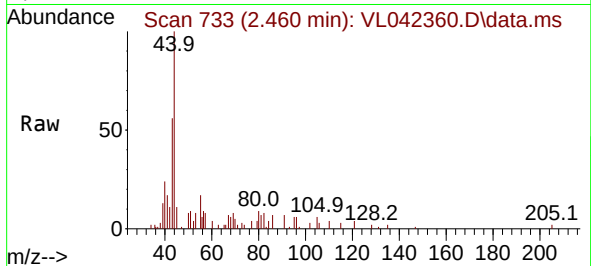




#23
 Vinyl Acetate
 Concen: 0.110 ppbv
 RT: 2.460 min Scan# 71
 Delta R.T. 0.000 min
 Lab File: VL042360.D
 Acq: 17 Apr 2025 16:44

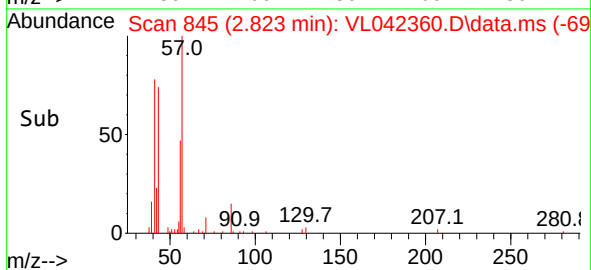
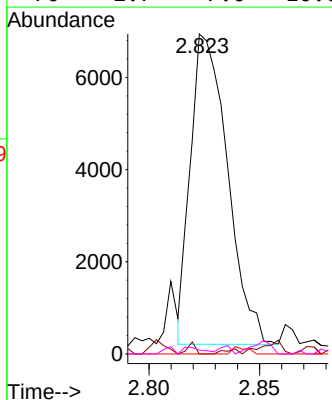
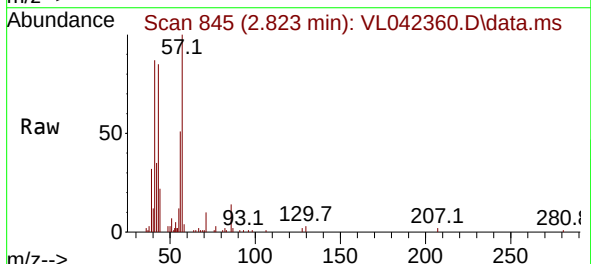
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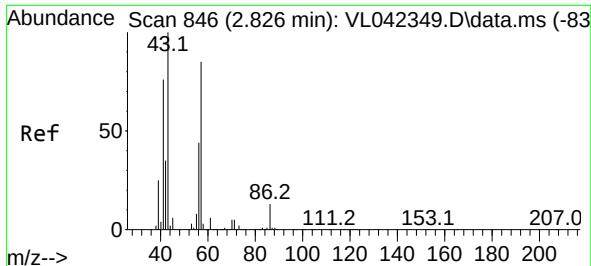
Tgt Ion:	43	Resp:	887
Ion	Ratio	Lower	Upper
43	100		
86	10.6	6.5	9.7#
42	9.0	7.8	11.8
44	131.0	5.0	7.6#



#25
 Ethyl Acetate
 Concen: 0.159 ppbv
 RT: 2.823 min Scan# 845
 Delta R.T. -0.013 min
 Lab File: VL042360.D
 Acq: 17 Apr 2025 16:44

Tgt Ion:	43	Resp:	7846
Ion	Ratio	Lower	Upper
43	100		
45	0.0	8.3	12.5#
61	0.9	7.3	10.9#
70	2.7	7.0	10.6#

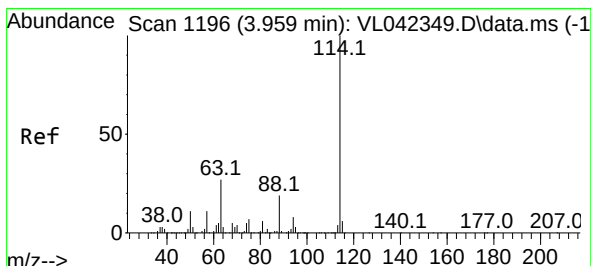
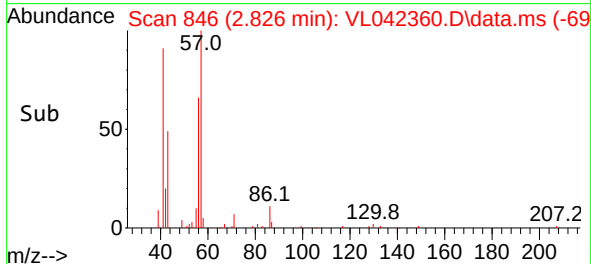
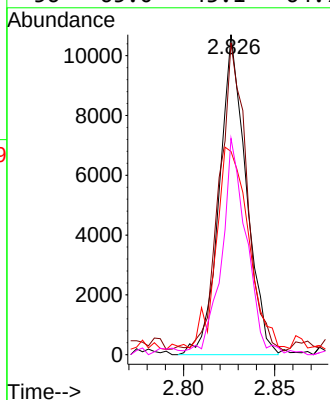
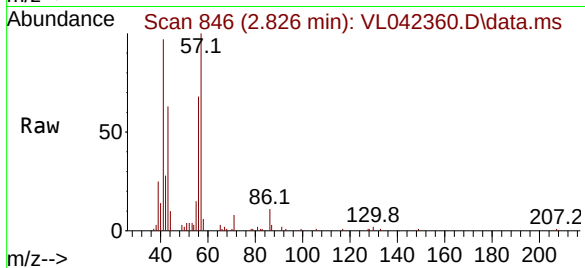




#26
Hexane
Concen: 0.549 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44

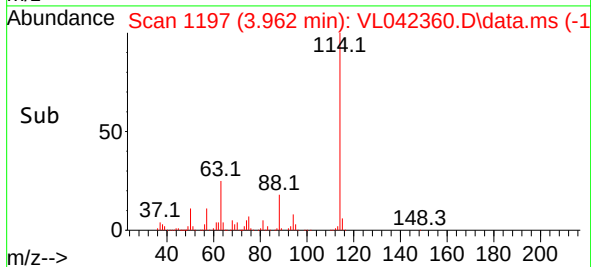
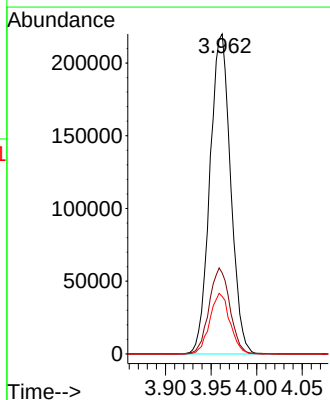
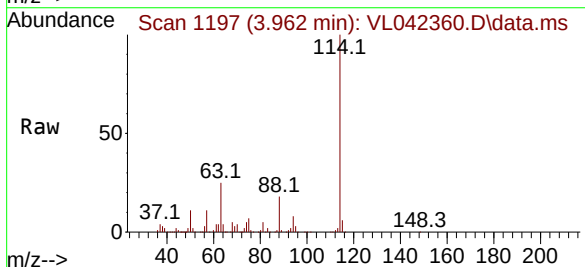
Instrument :
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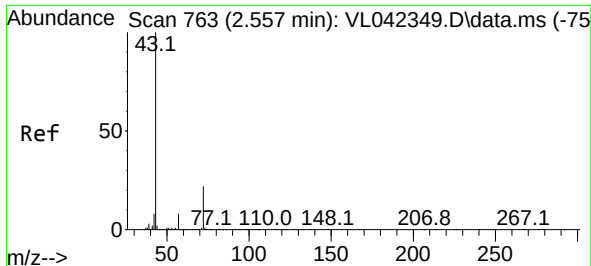
Tgt Ion:	57	Resp:	10934
Ion	Ratio	Lower	Upper
57	100		
41	97.0	77.9	116.9
43	80.3	208.4	312.6#
56	65.0	43.1	64.7#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. 0.003 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44

Tgt Ion:	114	Resp:	347081
Ion	Ratio	Lower	Upper
114	100		
63	27.1	21.8	32.6
88	18.4	15.5	23.3

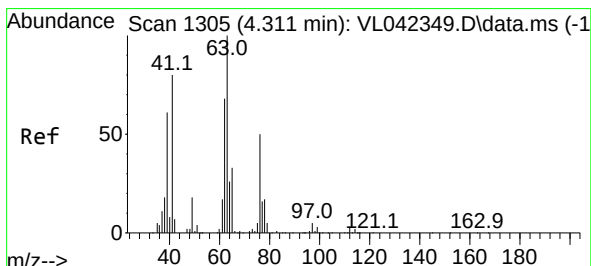
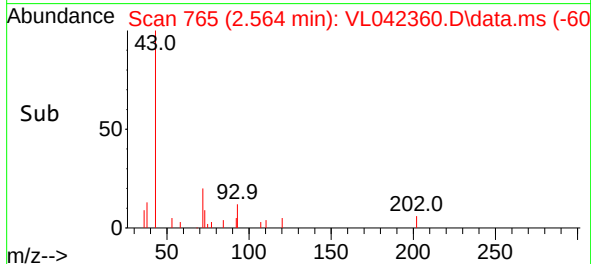
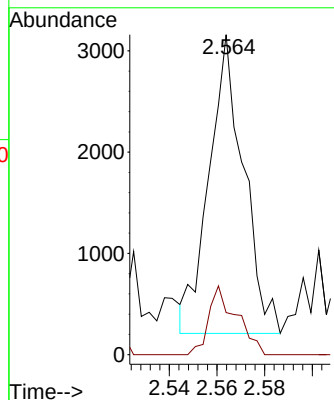
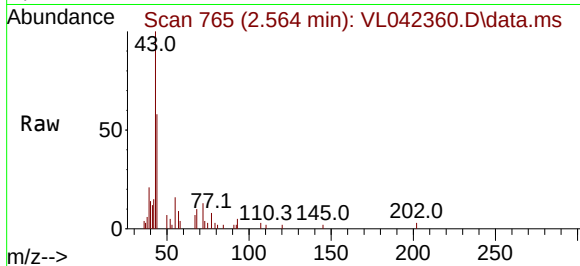




#34
2-Butanone
Concen: 0.108 ppbv
RT: 2.564 min Scan# 71
Delta R.T. 0.007 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44

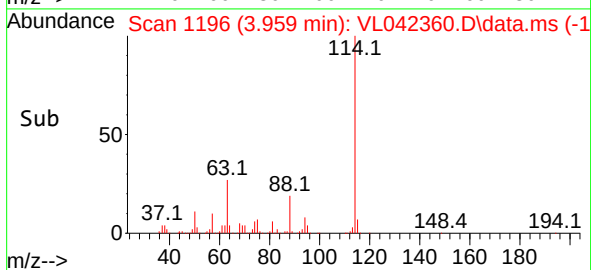
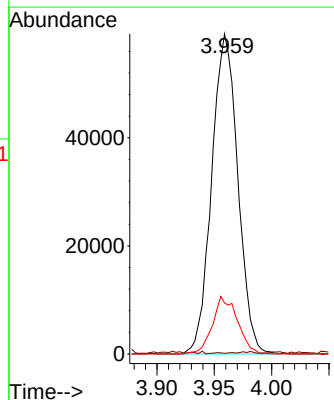
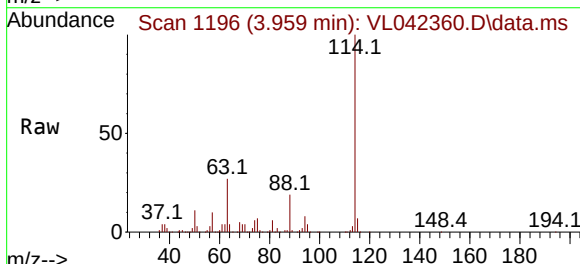
Instrument :
MSVOA_L
ClientSampleId :
IA-B14-1-3242025DL

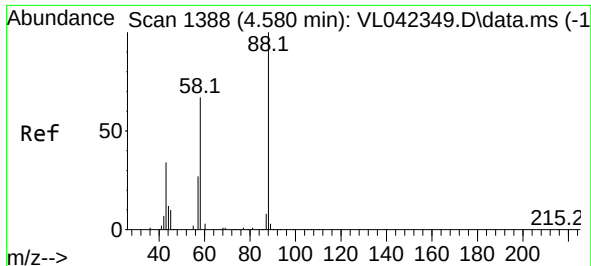
Tgt Ion: 43 Resp: 2970
Ion Ratio Lower Upper
43 100
72 18.6 18.2 27.2



#39
1,2-Dichloropropane
Concen: 6.728 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. -0.353 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44

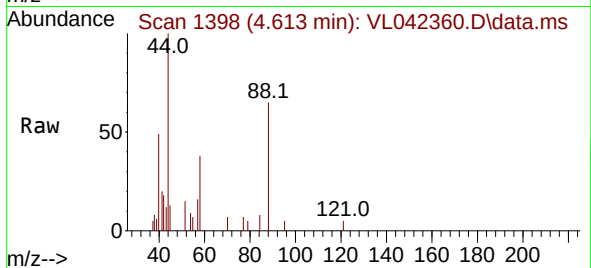
Tgt Ion: 63 Resp: 93853
Ion Ratio Lower Upper
63 100
41 0.0 64.2 96.2#
62 15.9 54.3 81.5#



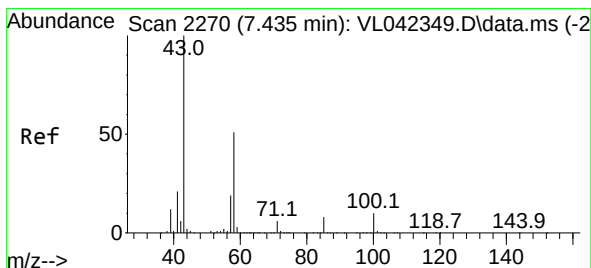
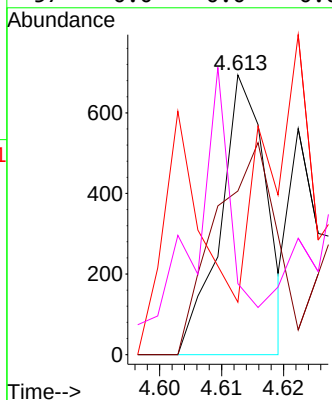
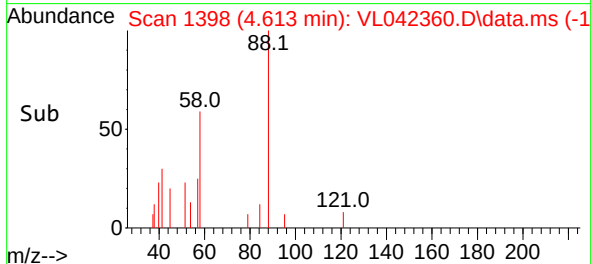


#40
1,4-Dioxane
Concen: 0.047 ppbv
RT: 4.613 min Scan# 11
Delta R.T. 0.033 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44

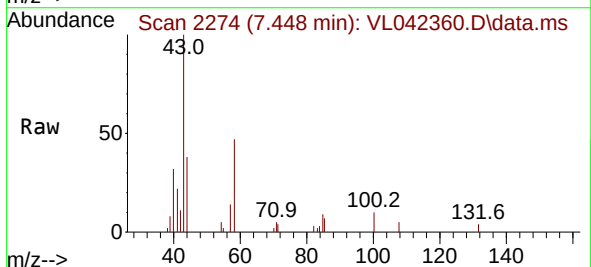
Instrument :
MSVOA_L
ClientSampleId :
IA-B14-1-3242025DL



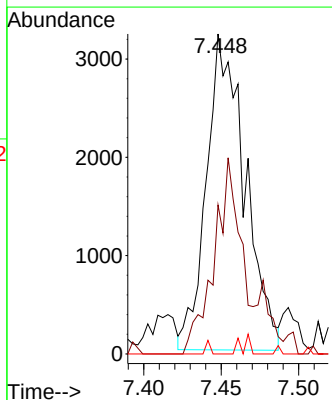
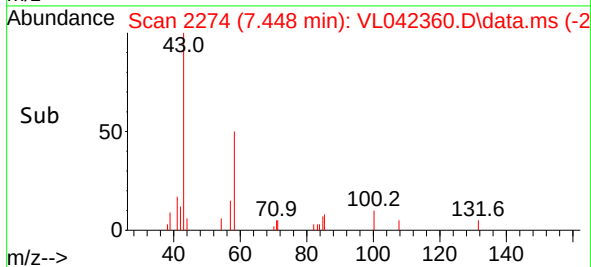
Tgt Ion: 88 Resp: 360
Ion Ratio Lower Upper
88 100
58 190.3 61.4 92.0#
43 135.3 23.2 34.8#
57 0.0 0.0 0.0

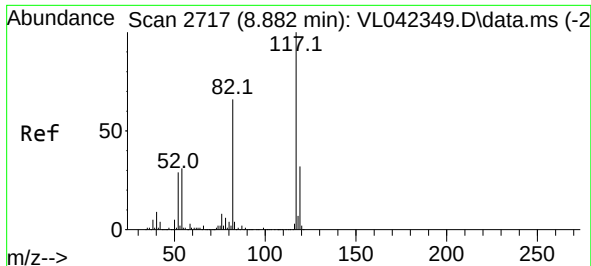


#51
2-Hexanone
Concen: 0.135 ppbv
RT: 7.448 min Scan# 2274
Delta R.T. 0.013 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44



Tgt Ion: 43 Resp: 5539
Ion Ratio Lower Upper
43 100
58 53.1 40.2 60.4
98 0.0 0.1 0.1#

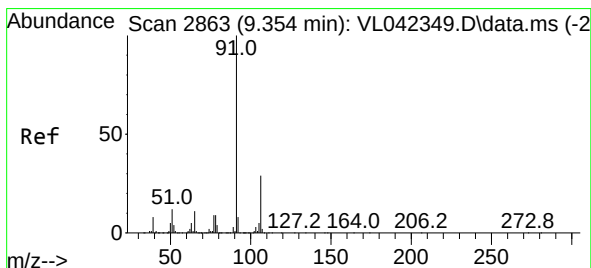
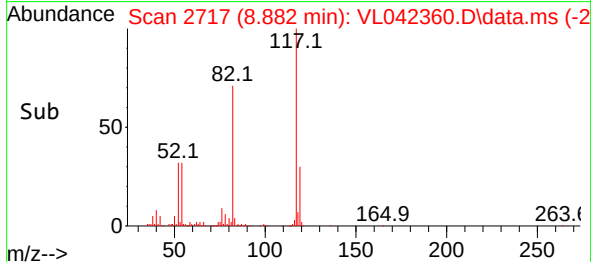
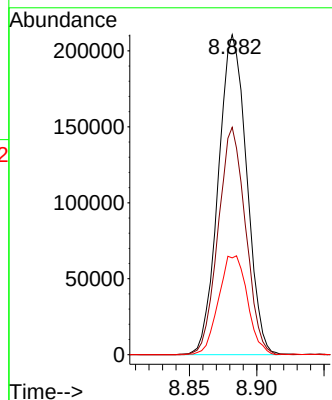
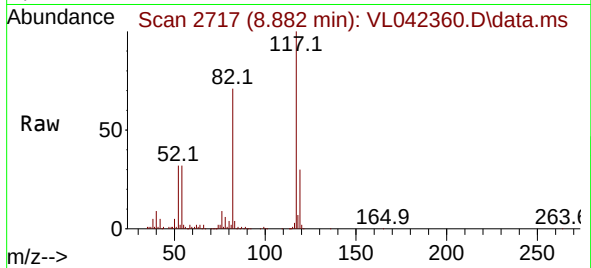




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44

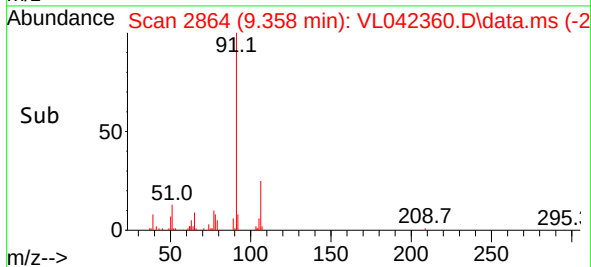
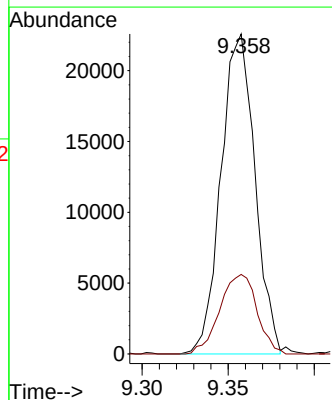
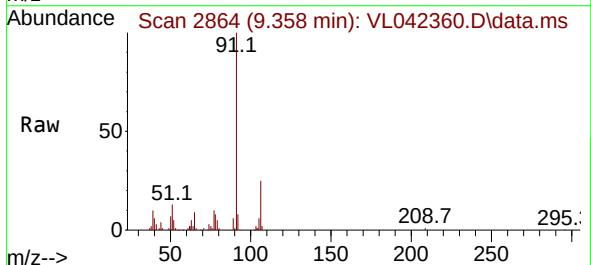
Instrument :
MSVOA_L
ClientSampleId :
IA-B14-1-3242025DL

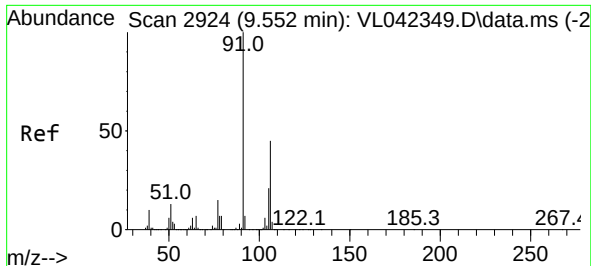
Tgt Ion:117 Resp: 308280
Ion Ratio Lower Upper
117 100
82 68.8 57.8 86.6
119 31.5 25.2 37.8



#58
Ethyl Benzene
Concen: 0.507 ppbv
RT: 9.358 min Scan# 2864
Delta R.T. 0.003 min
Lab File: VL042360.D
Acq: 17 Apr 2025 16:44

Tgt Ion: 91 Resp: 30946
Ion Ratio Lower Upper
91 100
106 24.8 23.0 34.4





#59

m/p-Xylene

Concen: 1.826 ppbv

RT: 9.532 min Scan# 2918

Delta R.T. -0.019 min

Lab File: VL042360.D

Acq: 17 Apr 2025 16:44

Instrument :

MSVOA_L

ClientSampleId :

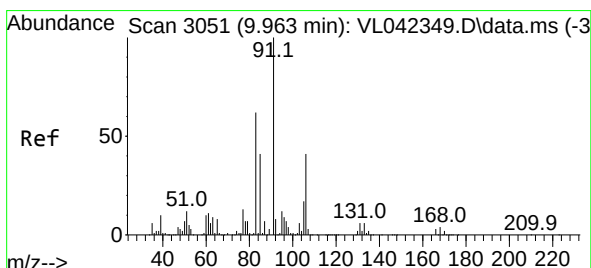
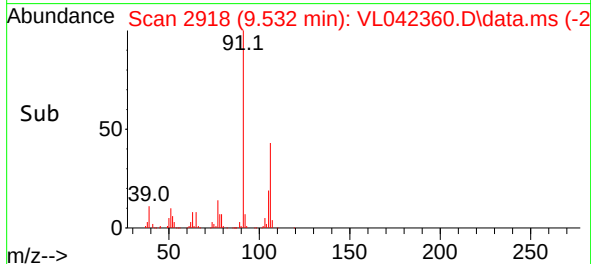
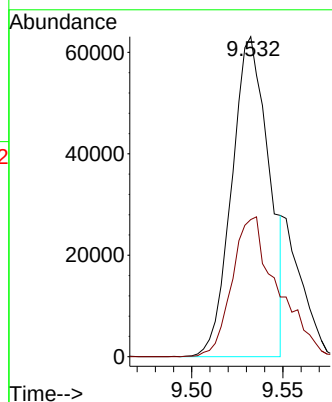
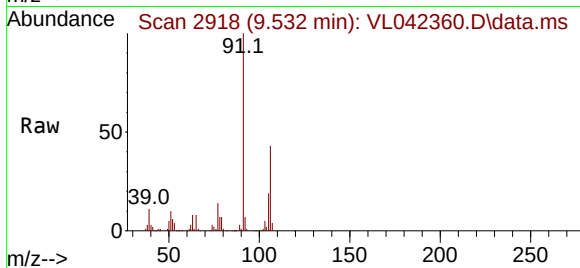
IA-B14-1-3242025DL

Tgt Ion: 91 Resp: 89850

Ion Ratio Lower Upper

91 100

106 53.4 35.4 53.2#



#60

o-Xylene

Concen: 0.408 ppbv

RT: 9.966 min Scan# 3052

Delta R.T. 0.003 min

Lab File: VL042360.D

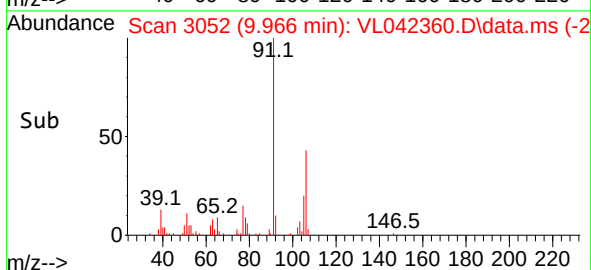
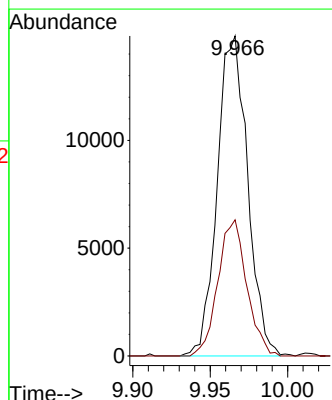
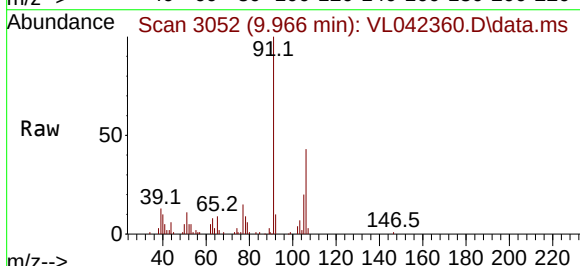
Acq: 17 Apr 2025 16:44

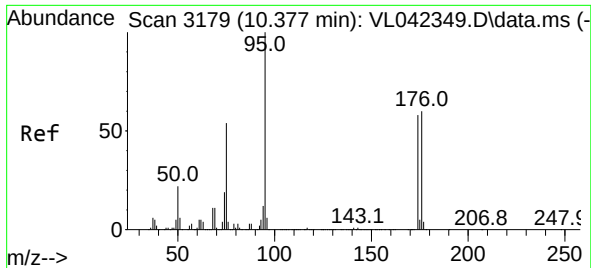
Tgt Ion: 91 Resp: 20222

Ion Ratio Lower Upper

91 100

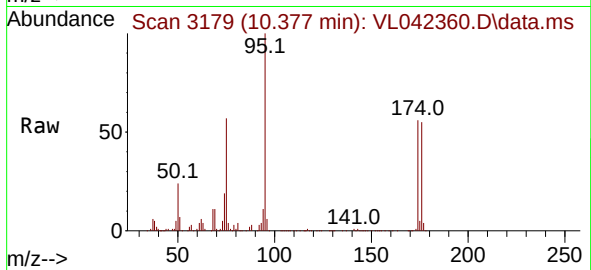
106 40.4 21.1 63.4





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.226 ppbv
 RT: 10.377 min Scan# 3179
 Delta R.T. 0.000 min
 Lab File: VL042360.D
 Acq: 17 Apr 2025 16:44

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B14-1-3242025DL



Tgt Ion: 95 Resp: 259047
 Ion Ratio Lower Upper
 95 100
 174 56.2 48.5 72.7
 175 4.3 3.7 5.5

