

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041825\
 Data File : VL042389.D
 Acq On : 18 Apr 2025 13:43
 Operator : SY/MD
 Sample : Q1726-04DL2 40X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-5-03312025DL2

Quant Time: Apr 18 22:58:55 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)

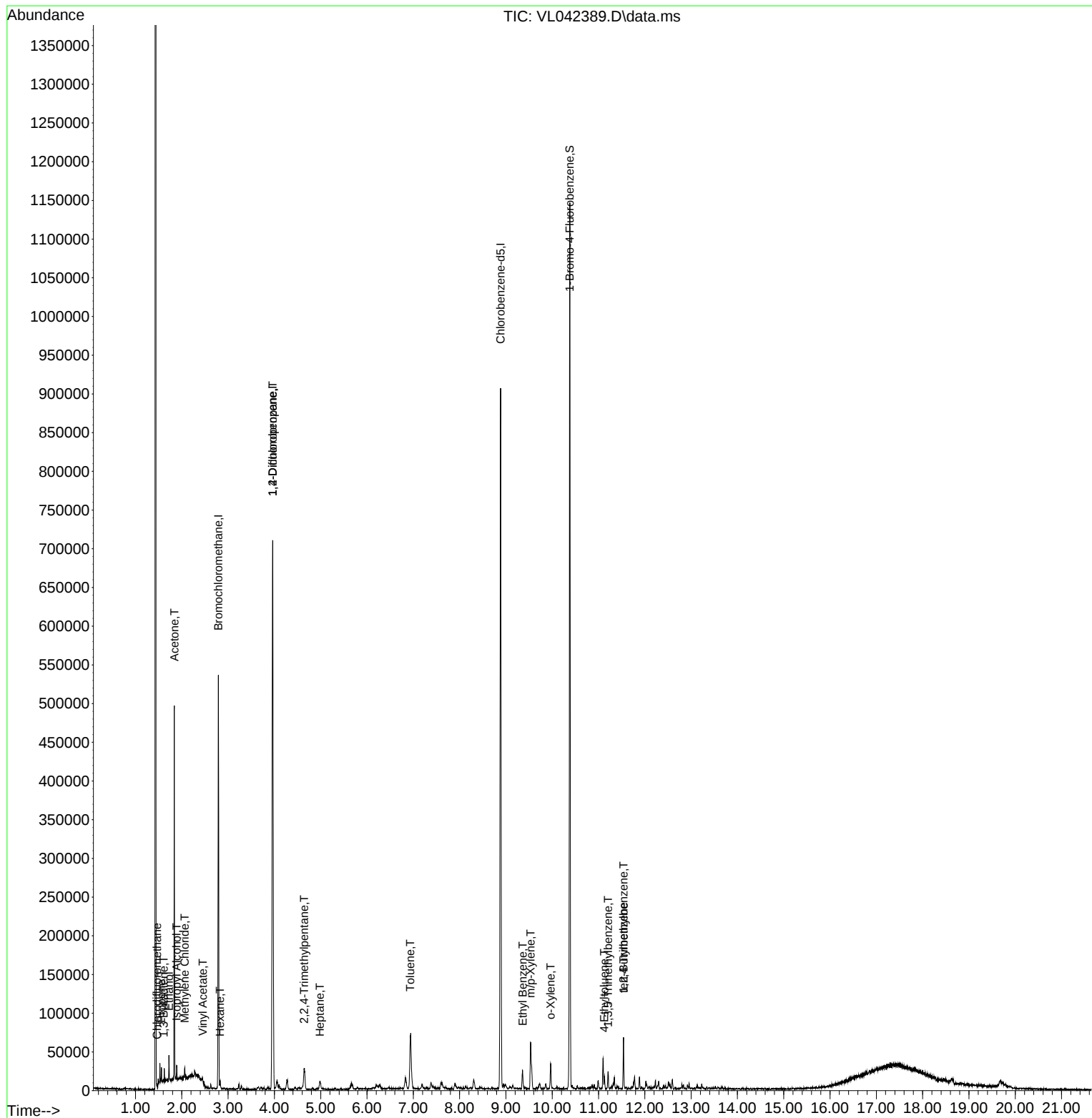
Internal Standards						
1) Bromochloromethane	2.790	49	134501	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	412843	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	353048	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	286509	9.876	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.800%
Target Compounds						
					Qvalue	
3) Chlorodifluoromethane	1.466	51	1191	0.053	ppbv #	79
9) Propene	1.560	41	2630	0.255	ppbv	95
10) Heptane	4.981	43	2546	0.088	ppbv #	43
13) Ethanol	1.722	45	9628	5.878	ppbv #	24
15) Acetone	1.839	43	207223	9.411	ppbv	100
16) 1,3-Butadiene	1.612	39	352	0.033	ppbv #	9
19) Isopropyl Alcohol	1.887	45	7883	0.644	ppbv #	1
20) Methylene Chloride	2.065	84	1895	0.220	ppbv #	80
23) Vinyl Acetate	2.454	43	1099	0.123	ppbv #	1
26) Hexane	2.826	57	2480	0.113	ppbv #	35
39) 1,2-Dichloropropane	3.962	63	103884	6.260	ppbv #	23
44) 2,2,4-Trimethylpentane	4.641	57	12138	0.158	ppbv #	24
53) Toluene	6.936	91	47465	0.888	ppbv	99
58) Ethyl Benzene	9.361	91	12734	0.182	ppbv #	85
59) m/p-Xylene	9.532	91	37128	0.659	ppbv	98
60) o-Xylene	9.966	91	14405	0.254	ppbv	99
65) tert-Butylbenzene	11.539	119	2639	0.034	ppbv #	55
72) 4-Ethyltoluene	11.124	105	6239	0.090	ppbv #	56
73) 1,3,5-Trimethylbenzene	11.205	105	7150	0.117	ppbv	97
74) 1,2,4-Trimethylbenzene	11.539	105	24212	0.338	ppbv #	59

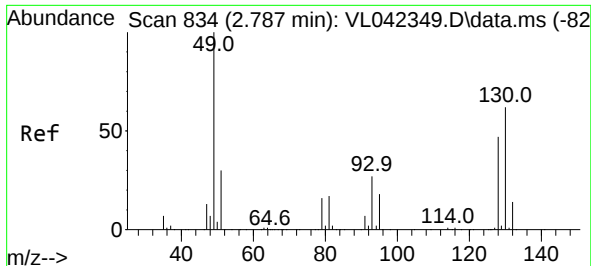
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041825\
Data File : VL042389.D
Acq On : 18 Apr 2025 13:43
Operator : SY/MD
Sample : Q1726-04DL2 40X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL2

Quant Time: Apr 18 22:58:55 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

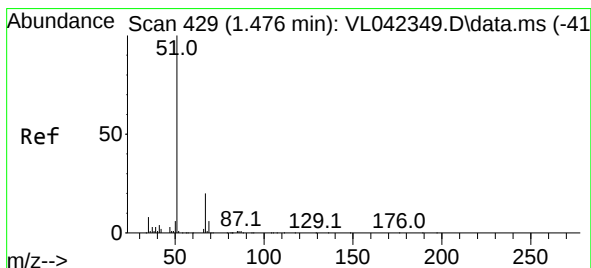
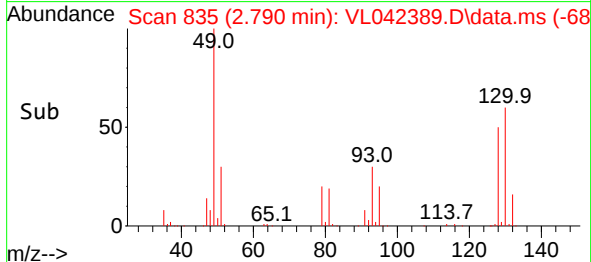
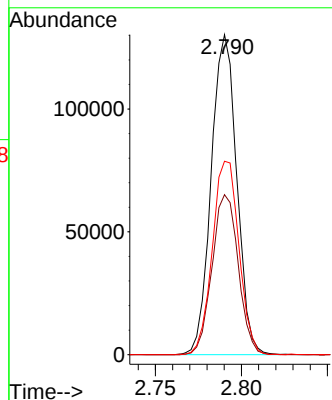
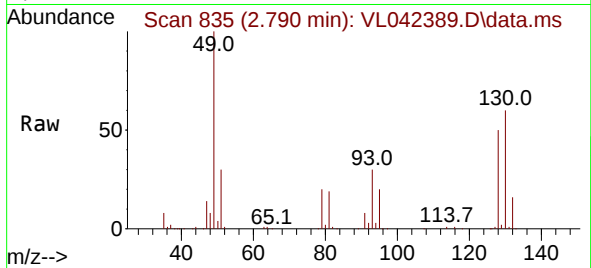




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43

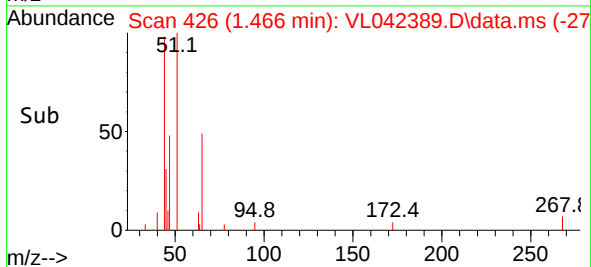
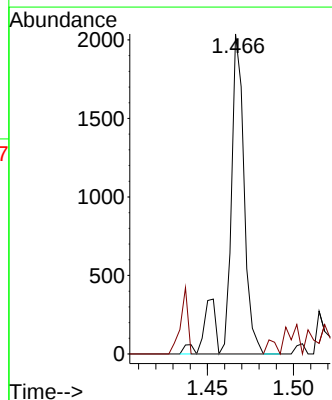
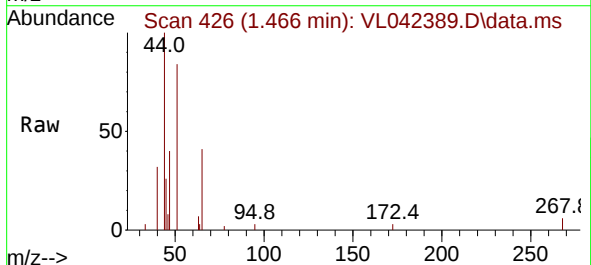
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL2

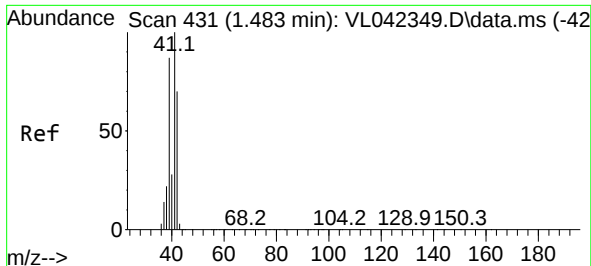
Tgt Ion: 49 Resp: 134501
Ion Ratio Lower Upper
49 100
128 51.5 22.8 68.4
130 63.0 29.3 88.0



#3
Chlorodifluoromethane
Concen: 0.053 ppbv
RT: 1.466 min Scan# 426
Delta R.T. -0.010 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43

Tgt Ion: 51 Resp: 1191
Ion Ratio Lower Upper
51 100
67 10.5 16.2 24.4#

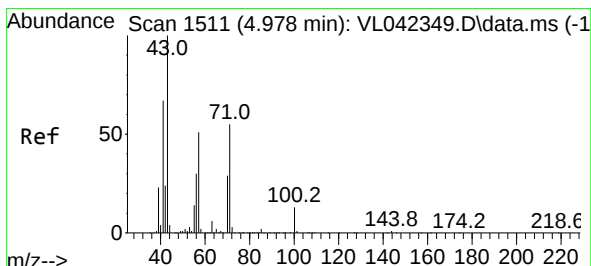
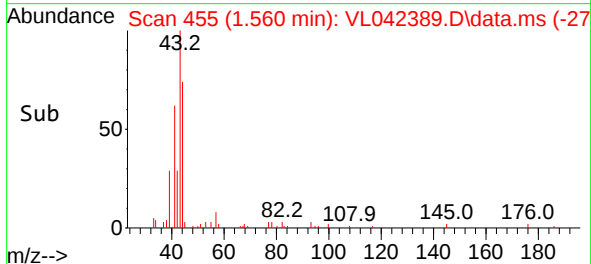
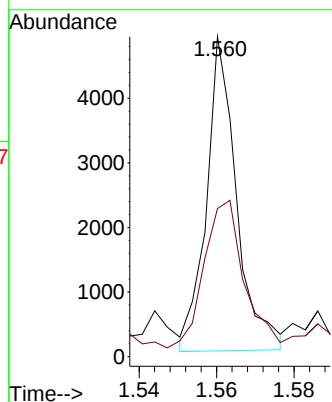
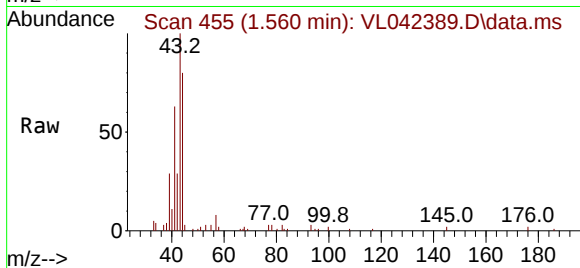




#9
Propene
Concen: 0.255 ppbv
RT: 1.560 min Scan# 41
Delta R.T. 0.078 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43

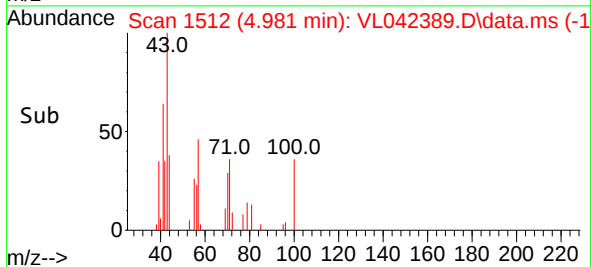
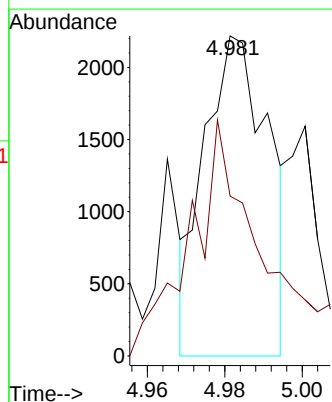
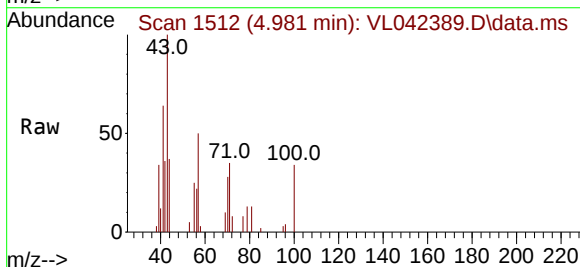
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL2

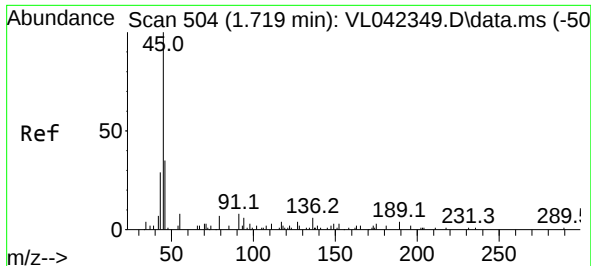
Tgt Ion: 41 Resp: 2630
Ion Ratio Lower Upper
41 100
42 66.3 56.2 84.4



#10
Heptane
Concen: 0.088 ppbv
RT: 4.981 min Scan# 1512
Delta R.T. 0.003 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43

Tgt Ion: 43 Resp: 2546
Ion Ratio Lower Upper
43 100
57 89.2 39.9 59.9#

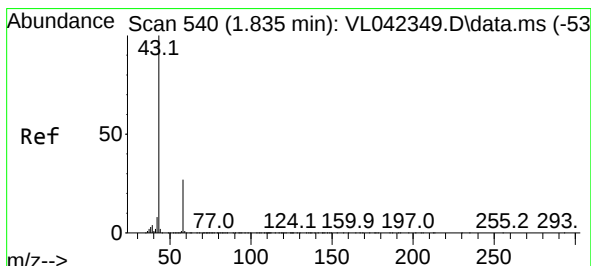
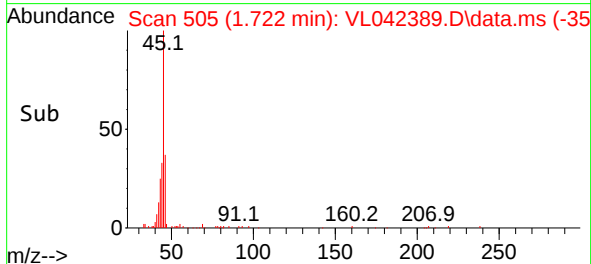
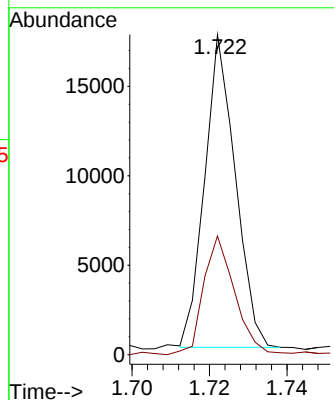
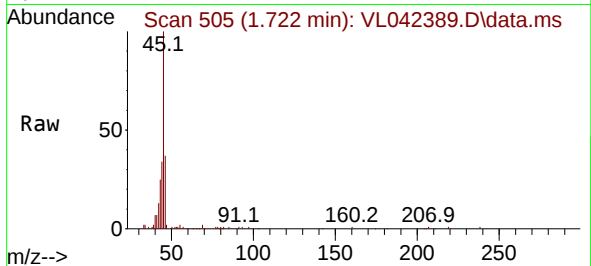




#13
Ethanol
Concen: 5.878 ppbv
RT: 1.722 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43

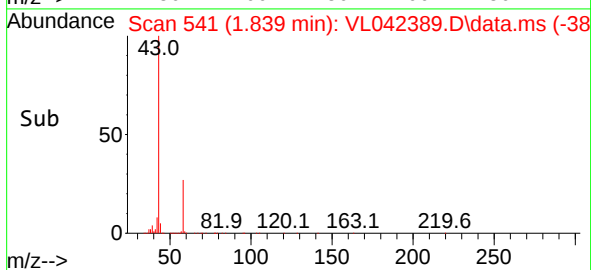
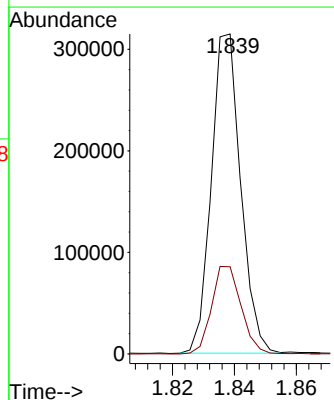
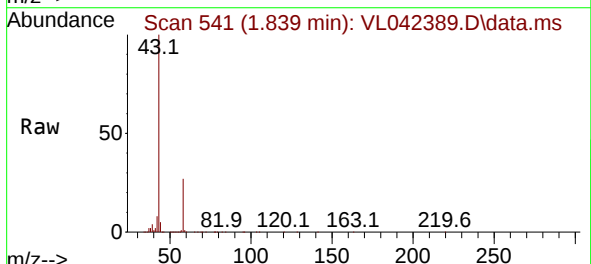
Instrument :
MSVOA_1
ClientSampleId :
IA-B2-5-03312025DL2

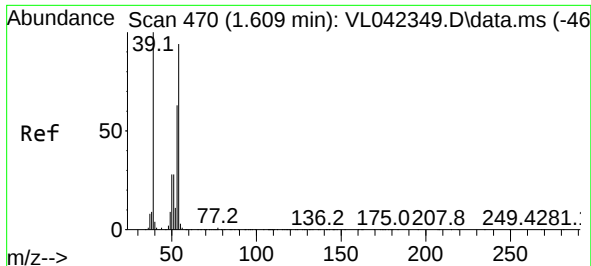
Tgt Ion: 45 Resp: 9628
Ion Ratio Lower Upper
45 100
46 0.0 21.9 87.7#



#15
Acetone
Concen: 9.411 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.003 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43

Tgt Ion: 43 Resp: 207223
Ion Ratio Lower Upper
43 100
58 27.9 22.4 33.6





#16

1,3-Butadiene

Concen: 0.033 ppbv

RT: 1.612 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042389.D

Acq: 18 Apr 2025 13:43

Instrument :

MSVOA_L

ClientSampleId :

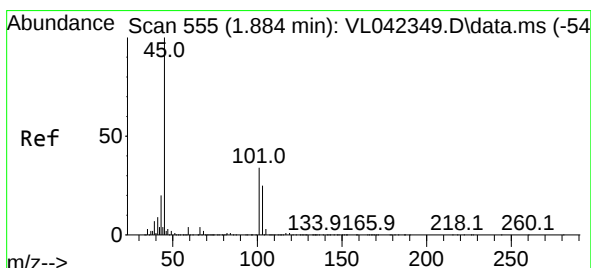
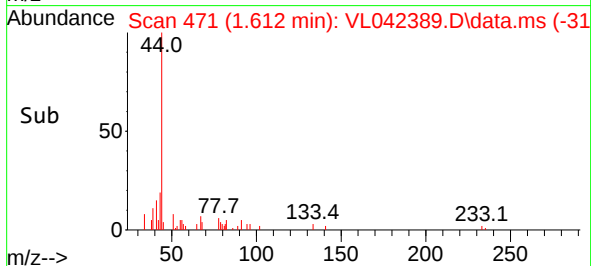
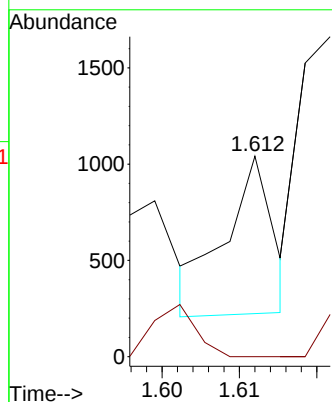
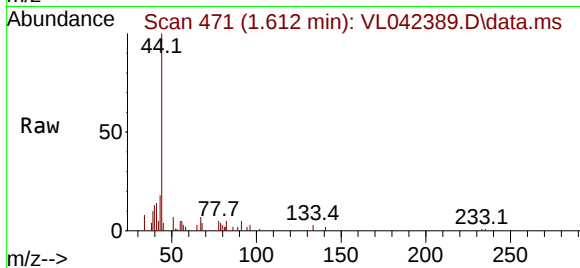
IA-B2-5-03312025DL2

Tgt Ion: 39 Resp: 352

Ion Ratio Lower Upper

39 100

54 0.0 64.9 97.3#



#19

Isopropyl Alcohol

Concen: 0.644 ppbv

RT: 1.887 min Scan# 556

Delta R.T. 0.003 min

Lab File: VL042389.D

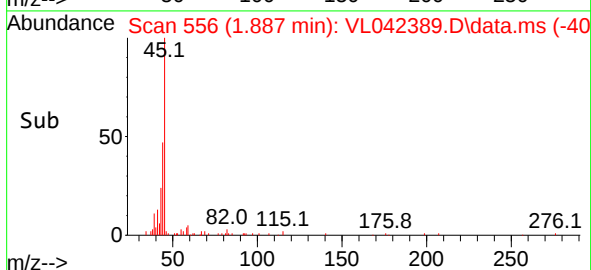
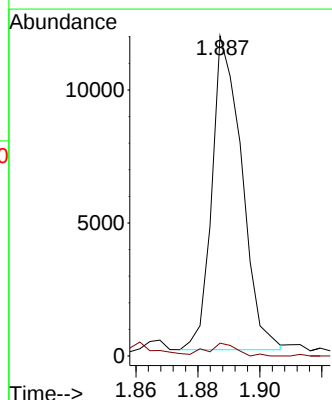
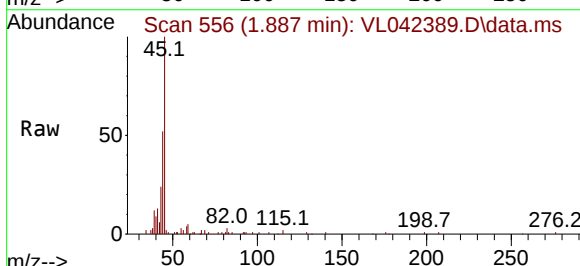
Acq: 18 Apr 2025 13:43

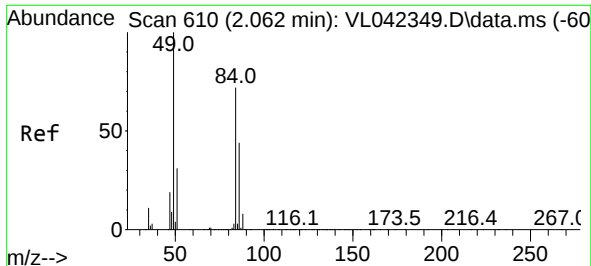
Tgt Ion: 45 Resp: 7883

Ion Ratio Lower Upper

45 100

58 733.5 34.5 51.7#

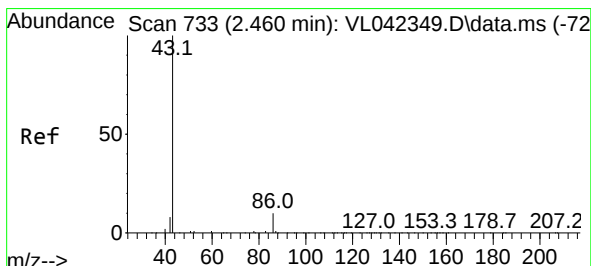
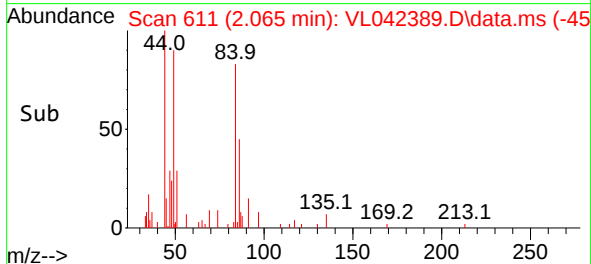
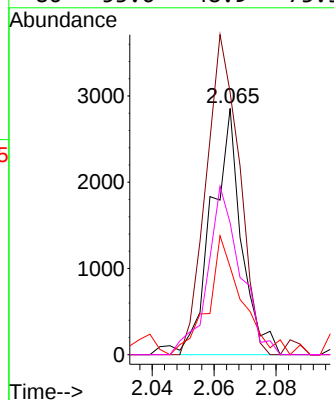
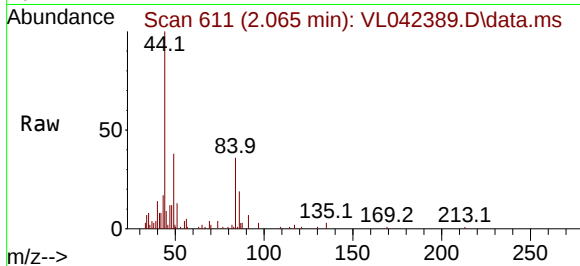




#20
Methylene Chloride
Concen: 0.220 ppbv
RT: 2.065 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43

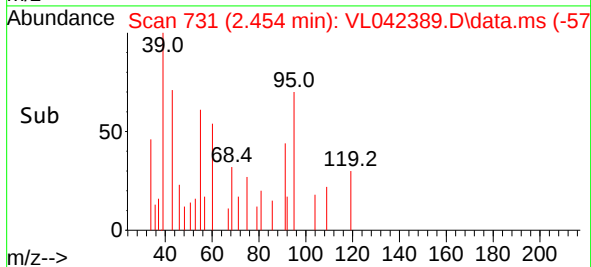
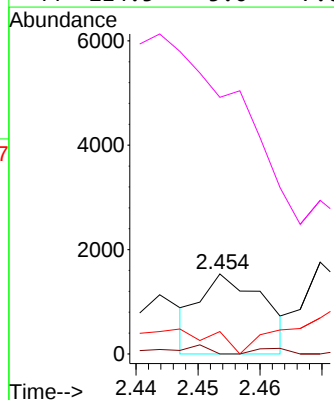
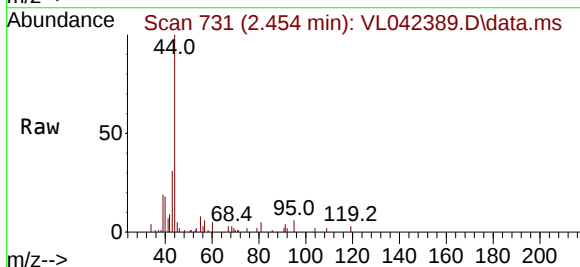
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL2

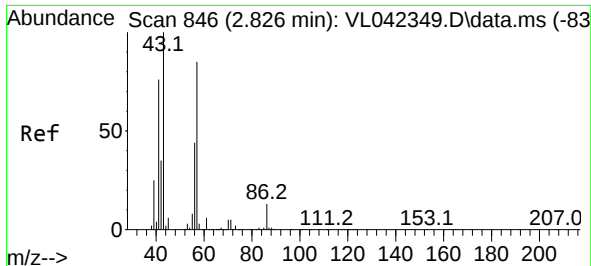
Tgt Ion:	84	Resp:	1895
Ion	Ratio	Lower	Upper
84	100		
49	110.8	111.6	167.4#
51	29.6	35.1	52.7#
86	53.6	48.9	73.3



#23
Vinyl Acetate
Concen: 0.123 ppbv
RT: 2.454 min Scan# 731
Delta R.T. -0.007 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43

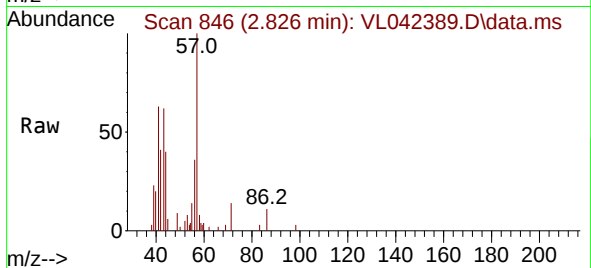
Tgt Ion:	43	Resp:	1099
Ion	Ratio	Lower	Upper
43	100		
86	0.0	6.5	9.7#
42	0.0	7.8	11.8#
44	214.5	5.0	7.6#



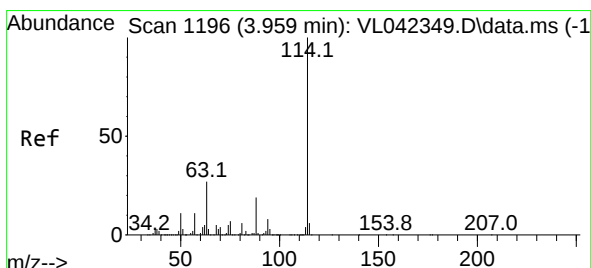
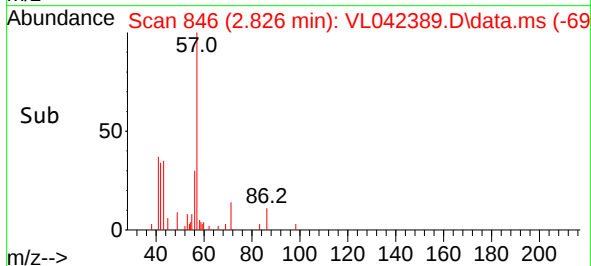
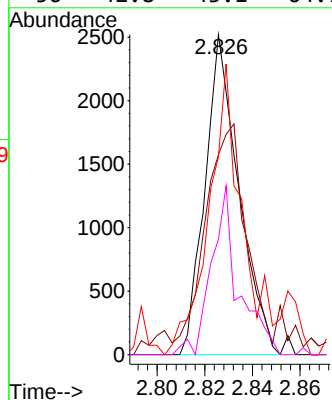


#26
Hexane
Concen: 0.113 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.000 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL2

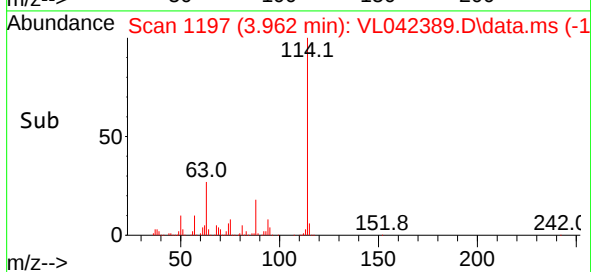
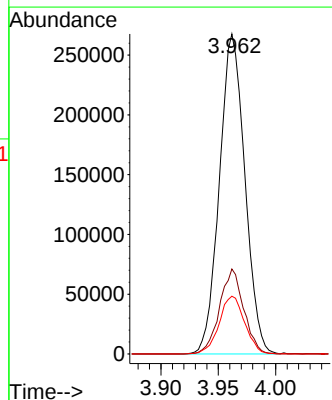
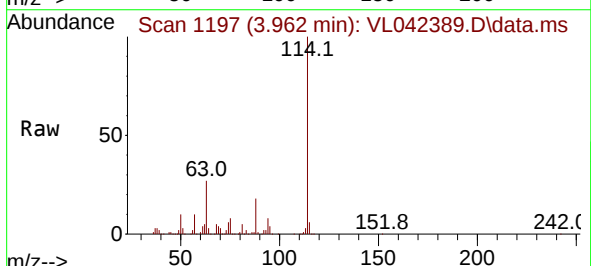


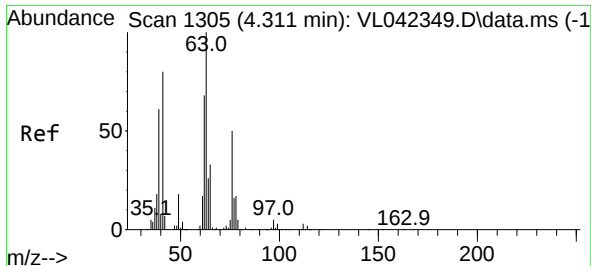
Tgt Ion: 57	Resp: 2480
Ion Ratio	Lower Upper
57 100	
41 107.0	77.9 116.9
43 88.2	208.4 312.6#
56 42.8	43.1 64.7#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. 0.003 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43

Tgt Ion:114	Resp: 412843		
Ion Ratio	Lower	Upper	
114 100			
63 25.2	21.8	32.6	
88 18.1	15.5	23.3	





#39

1,2-Dichloropropane

Concen: 6.260 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. -0.350 min

Lab File: VL042389.D

Acq: 18 Apr 2025 13:43

Instrument :

MSVOA_L

ClientSampleId :

IA-B2-5-03312025DL2

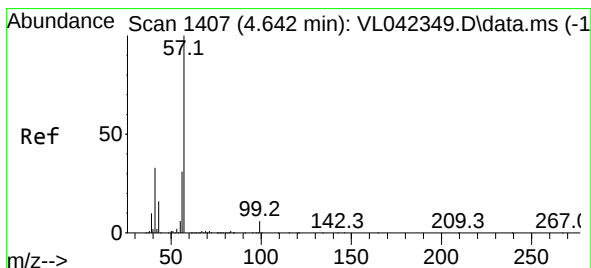
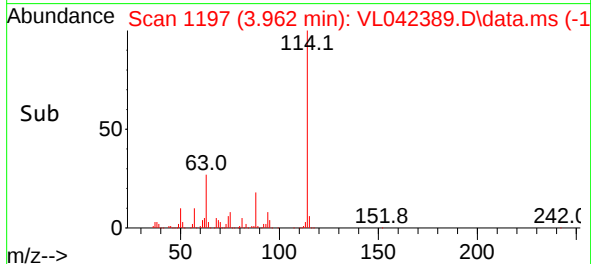
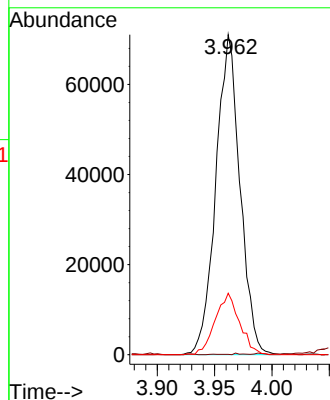
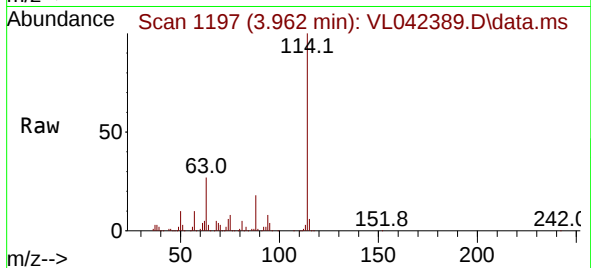
Tgt Ion: 63 Resp: 103884

Ion Ratio Lower Upper

63 100

41 0.1 64.2 96.2#

62 19.2 54.3 81.5#



#44

2,2,4-Trimethylpentane

Concen: 0.158 ppbv

RT: 4.641 min Scan# 1407

Delta R.T. -0.000 min

Lab File: VL042389.D

Acq: 18 Apr 2025 13:43

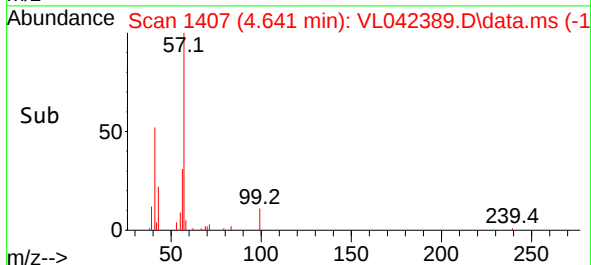
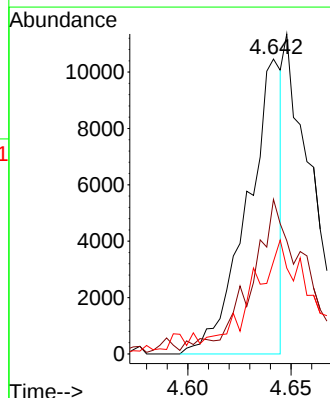
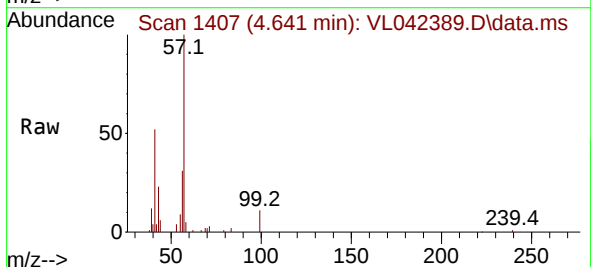
Tgt Ion: 57 Resp: 12138

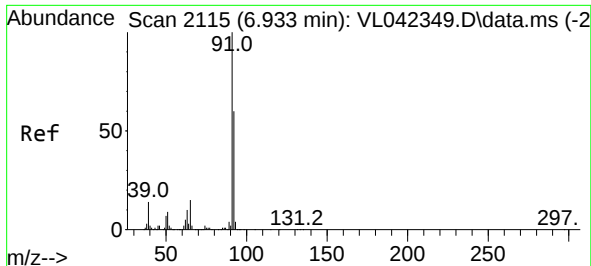
Ion Ratio Lower Upper

57 100

41 87.4 27.2 40.8#

56 0.0 25.7 38.5#

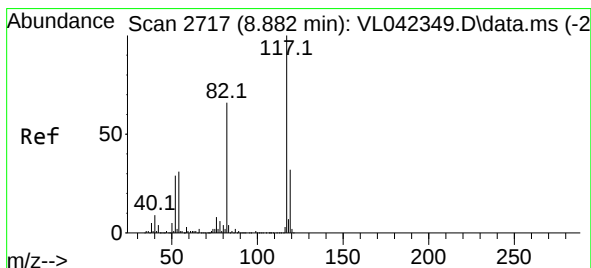
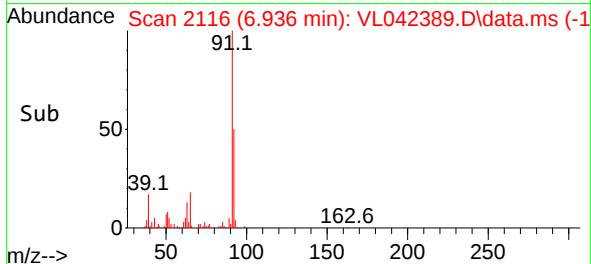
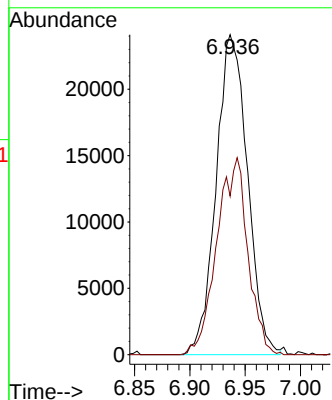
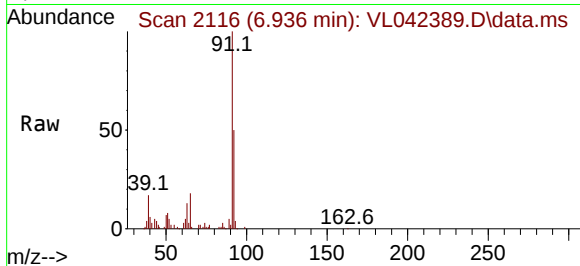




#53
Toluene
Concen: 0.888 ppbv
RT: 6.936 min Scan# 2115
Delta R.T. 0.003 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43

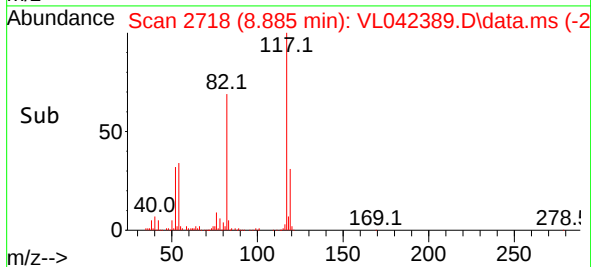
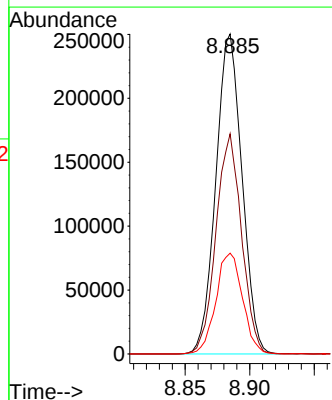
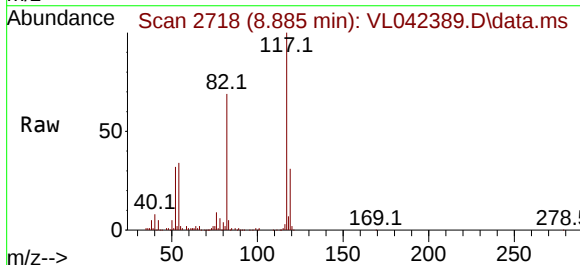
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL2

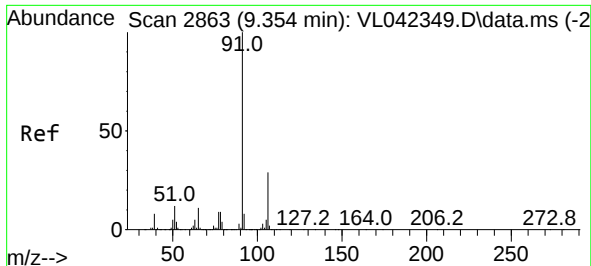
Tgt Ion: 91 Resp: 47465
Ion Ratio Lower Upper
91 100
92 61.0 48.2 72.4



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2718
Delta R.T. 0.003 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43

Tgt Ion: 117 Resp: 353048
Ion Ratio Lower Upper
117 100
82 67.1 57.8 86.6
119 32.1 25.2 37.8

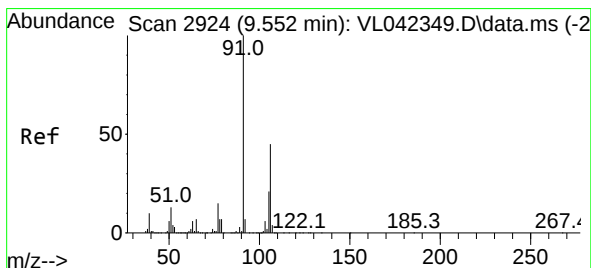
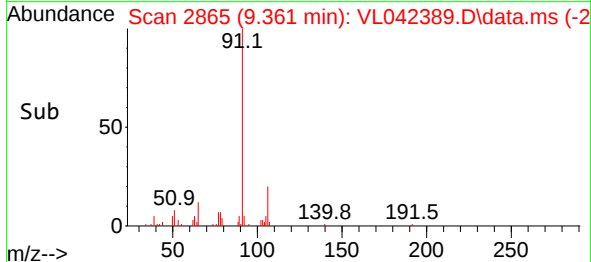
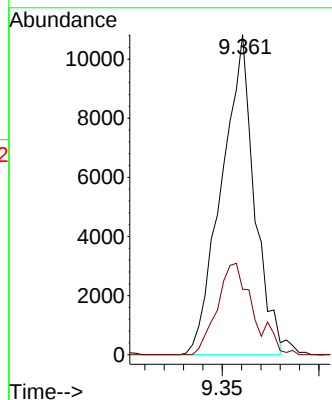
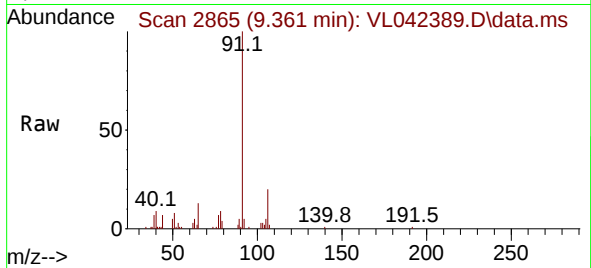




#58
Ethyl Benzene
Concen: 0.182 ppbv
RT: 9.361 min Scan# 218
Delta R.T. 0.006 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43

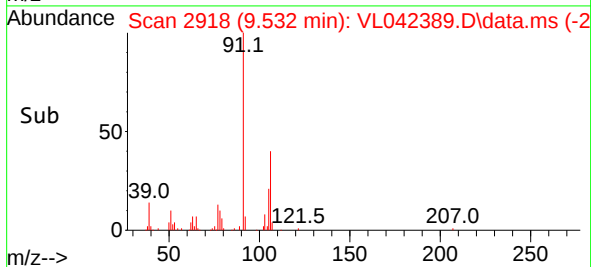
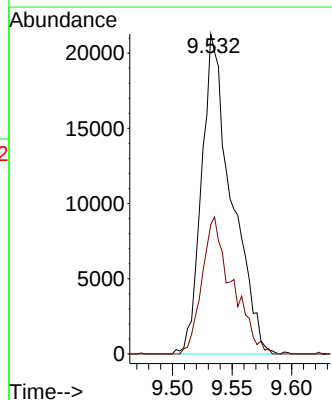
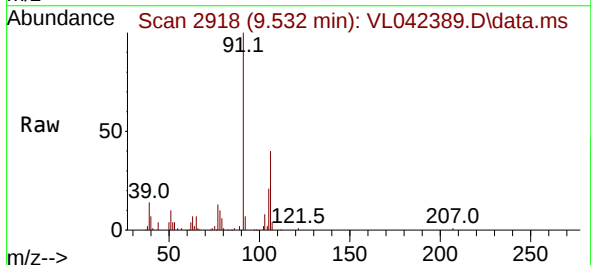
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL2

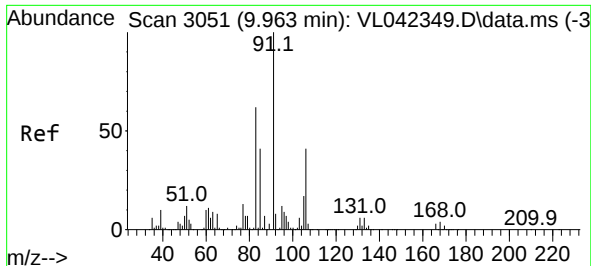
Tgt Ion: 91 Resp: 12734
Ion Ratio Lower Upper
91 100
106 20.5 23.0 34.4#



#59
m/p-Xylene
Concen: 0.659 ppbv
RT: 9.532 min Scan# 2918
Delta R.T. -0.019 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43

Tgt Ion: 91 Resp: 37128
Ion Ratio Lower Upper
91 100
106 43.2 35.4 53.2

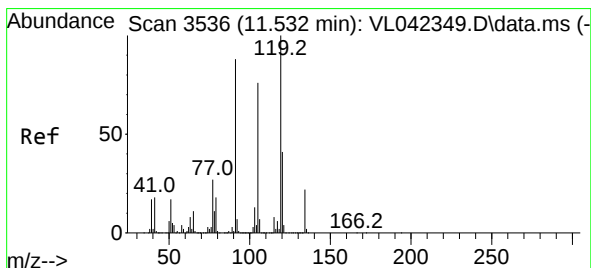
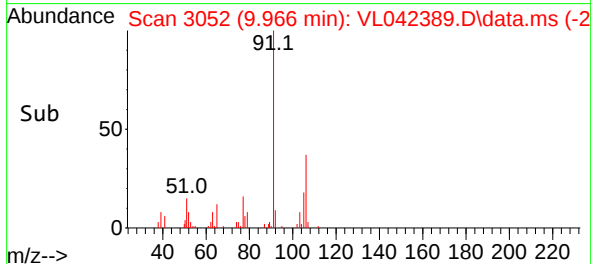
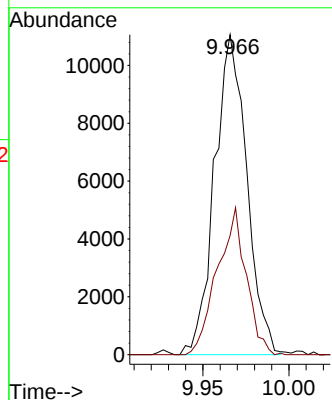
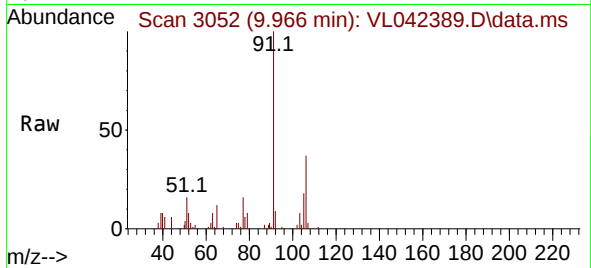




#60
o-Xylene
Concen: 0.254 ppbv
RT: 9.966 min Scan# 3051
Delta R.T. 0.003 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43

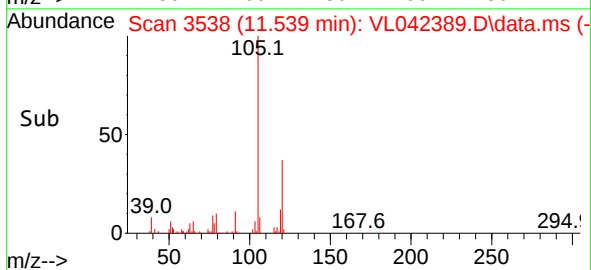
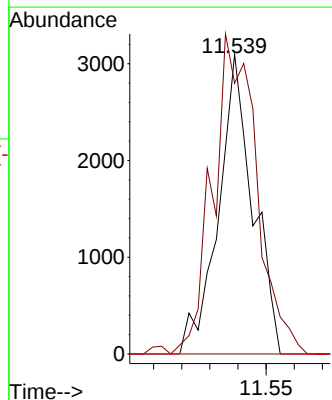
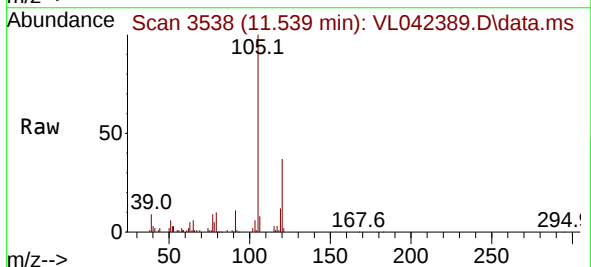
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL2

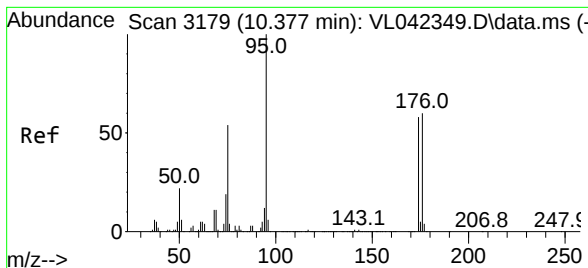
Tgt Ion: 91 Resp: 14405
Ion Ratio Lower Upper
91 100
106 41.4 21.1 63.4



#65
tert-Butylbenzene
Concen: 0.034 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.006 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43

Tgt Ion: 119 Resp: 2639
Ion Ratio Lower Upper
119 100
91 135.2 74.6 111.8#
134 0.0 18.8 28.2#

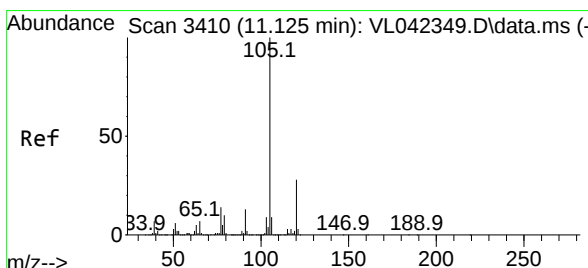
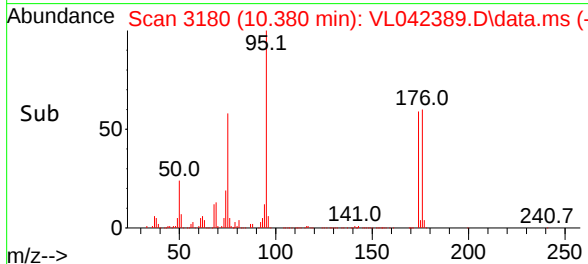
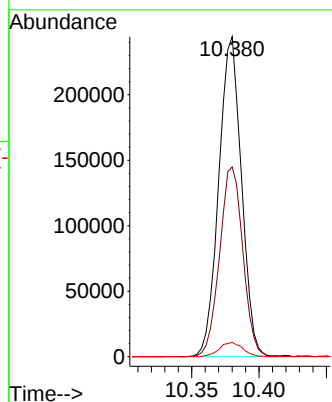
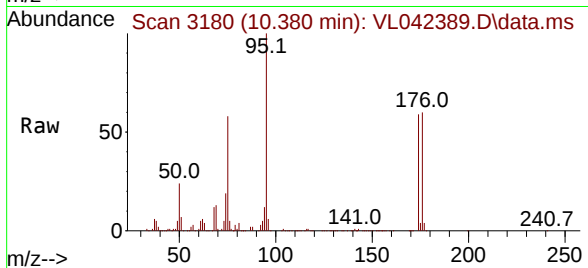




#68
1-Bromo-4-Fluorobenzene
Concen: 9.876 ppbv
RT: 10.380 min Scan# 3179
Delta R.T. 0.003 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43

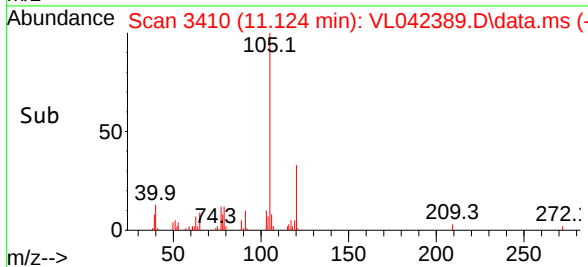
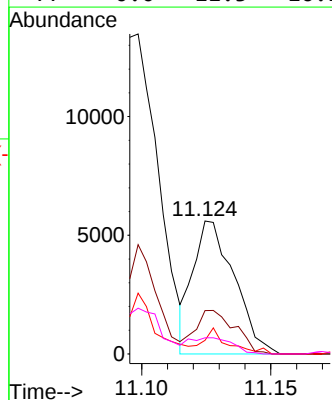
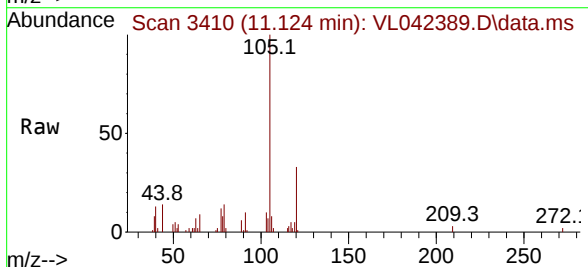
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL2

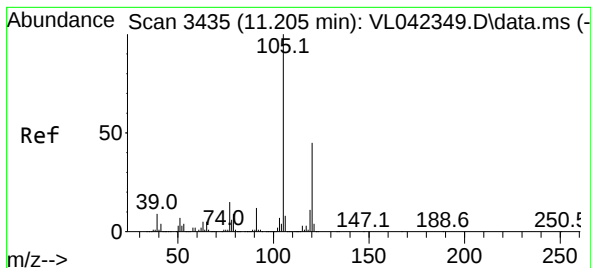
Tgt Ion: 95 Resp: 286509
Ion Ratio Lower Upper
95 100
174 60.9 48.5 72.7
175 4.6 3.7 5.5



#72
4-Ethyltoluene
Concen: 0.090 ppbv
RT: 11.124 min Scan# 3410
Delta R.T. -0.000 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43

Tgt Ion: 105 Resp: 6239
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: 0.117 ppbv

RT: 11.205 min Scan# 3435

Delta R.T. -0.000 min

Lab File: VL042389.D

Acq: 18 Apr 2025 13:43

Instrument :

MSVOA_L

ClientSampleId :

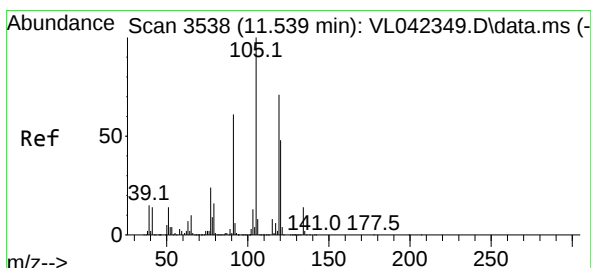
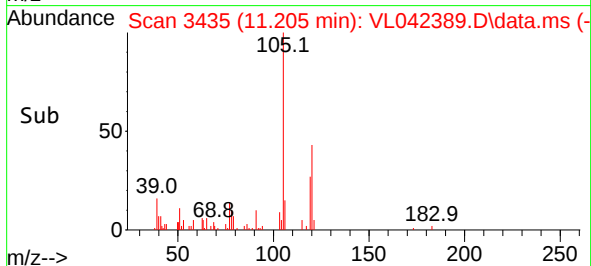
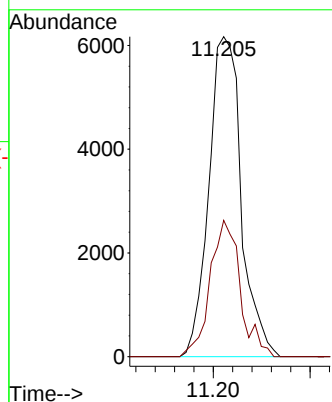
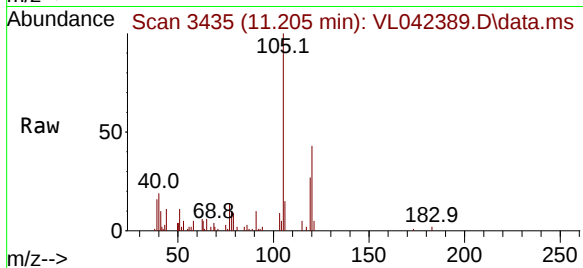
IA-B2-5-03312025DL2

Tgt Ion:105 Resp: 7150

Ion Ratio Lower Upper

105 100

120 42.6 35.6 53.4



#74

1,2,4-Trimethylbenzene

Concen: 0.338 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. -0.000 min

Lab File: VL042389.D

Acq: 18 Apr 2025 13:43

Tgt Ion:105 Resp: 24212

Ion Ratio Lower Upper

105 100

120 37.1 38.1 57.1#

91 11.2 48.8 73.2#

77 9.1 19.0 28.4#

