

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042925\
 Data File : VL042444.D
 Acq On : 29 Apr 2025 13:45
 Operator : SY/MD
 Sample : Q1908-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 B-2

Quant Time: Apr 30 01:20:23 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)

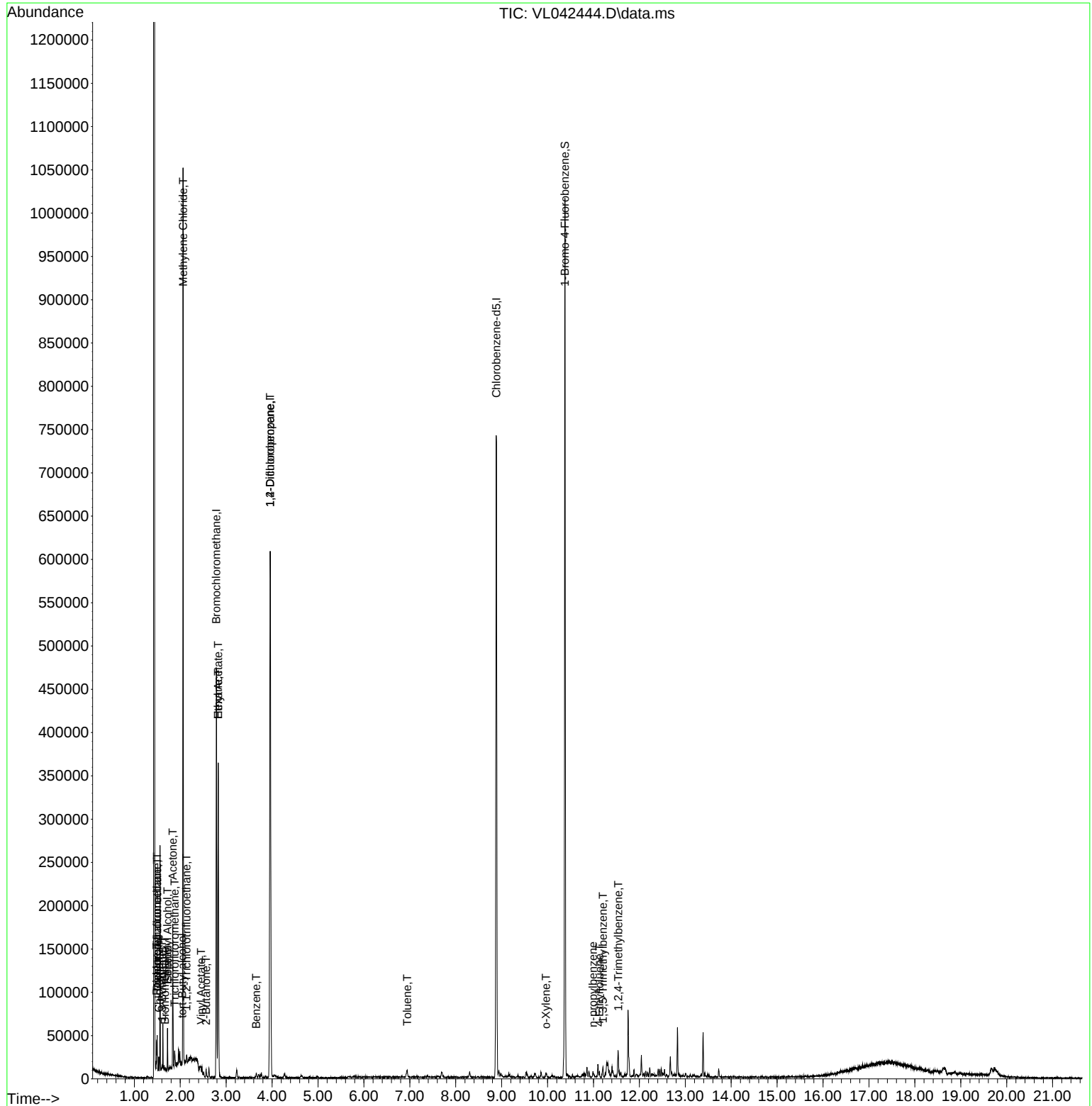
Internal Standards						
1) Bromochloromethane	2.787	49	118600	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	314605	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	266515	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	243301	11.109	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	111.100%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	10518	0.502	ppbv	96
4) Chloromethane	1.531	50	3830	0.462	ppbv	99
6) Bromomethane	1.664	94	232	0.060	ppbv #	26
8) Dichlorotetrafluoroethane	1.499	85	10518	0.585	ppbv #	18
9) Propene	1.489	41	2467	0.271	ppbv	98
11) Trichlorofluoromethane	1.877	101	4574	0.230	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.136	101	1115	0.068	ppbv	90
13) Ethanol	1.722	45	14101	9.763	ppbv #	24
15) Acetone	1.835	43	69707	3.590	ppbv	96
16) 1,3-Butadiene	1.602	39	649	0.070	ppbv #	64
17) tert-Butyl alcohol	2.043	59	736	0.031	ppbv #	71
19) Isopropyl Alcohol	1.722	45	14101	1.307	ppbv #	55
20) Methylene Chloride	2.062	84	152405	20.044	ppbv	91
23) Vinyl Acetate	2.454	43	1207	0.154	ppbv #	60
25) Ethyl Acetate	2.826	43	56986	1.190	ppbv #	78
26) Hexane	2.826	57	78428	4.048	ppbv #	32
34) 2-Butanone	2.564	43	5224	0.210	ppbv #	89
36) Benzene	3.654	78	1565	0.046	ppbv #	69
39) 1,2-Dichloropropane	3.959	63	91054	7.201	ppbv #	24
53) Toluene	6.943	91	4077	0.100	ppbv #	78
60) o-Xylene	9.966	91	1798	0.042	ppbv	90
64) n-propylbenzene	10.989	120	627	0.040	ppbv	70
72) 4-Ethyltoluene	11.131	105	2229	0.043	ppbv #	56
73) 1,3,5-Trimethylbenzene	11.205	105	3050	0.066	ppbv #	76
74) 1,2,4-Trimethylbenzene	11.542	105	9220	0.171	ppbv #	71

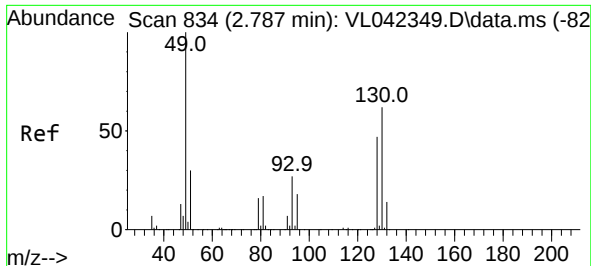
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042925\
Data File : VL042444.D
Acq On : 29 Apr 2025 13:45
Operator : SY/MD
Sample : Q1908-02
Misc : 400mL/MSVOA_L
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
B-2

Quant Time: Apr 30 01:20:23 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

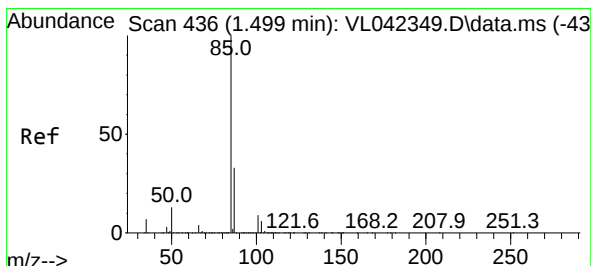
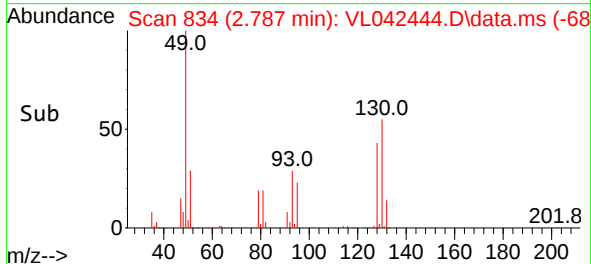
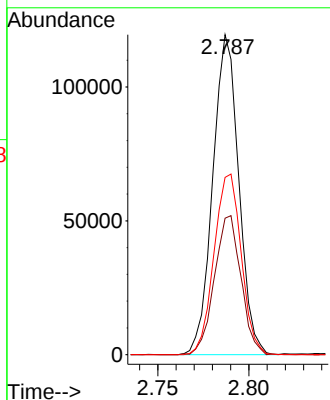
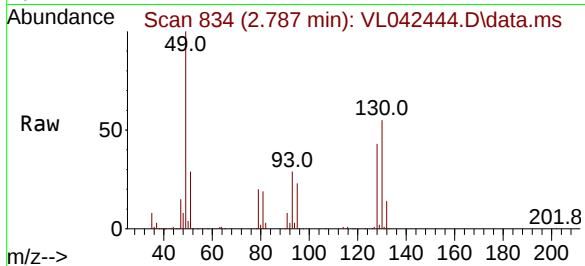




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.787 min Scan# 834
 Delta R.T. -0.000 min
 Lab File: VL042444.D
 Acq: 29 Apr 2025 13:45

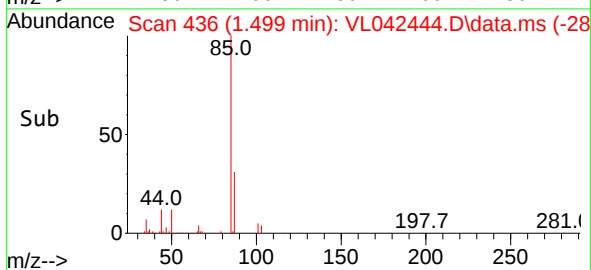
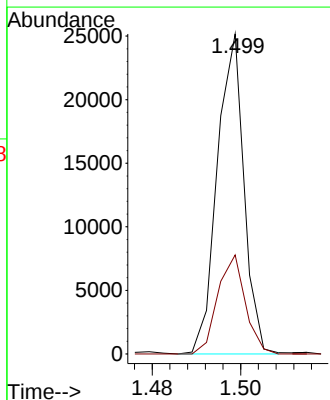
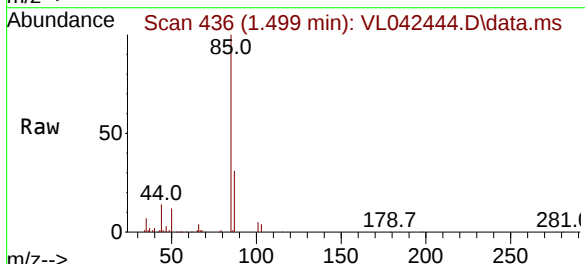
Instrument :
 MSVOA_L
 ClientSampleId :
 B-2

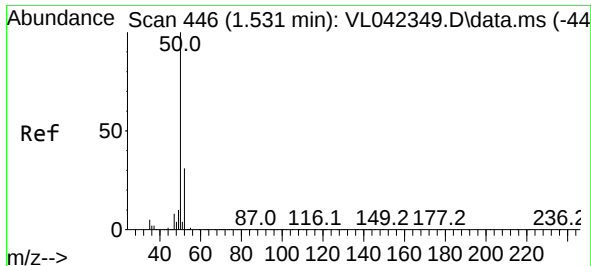
Tgt Ion: 49 Resp: 118600
 Ion Ratio Lower Upper
 49 100
 128 44.4 22.8 68.4
 130 59.0 29.3 88.0



#2
 Dichlorodifluoromethane
 Concen: 0.502 ppbv
 RT: 1.499 min Scan# 436
 Delta R.T. -0.000 min
 Lab File: VL042444.D
 Acq: 29 Apr 2025 13:45

Tgt Ion: 85 Resp: 10518
 Ion Ratio Lower Upper
 85 100
 87 30.9 26.6 39.8

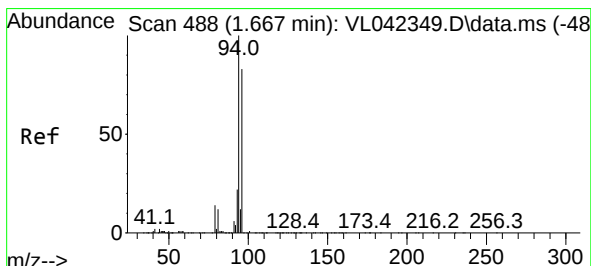
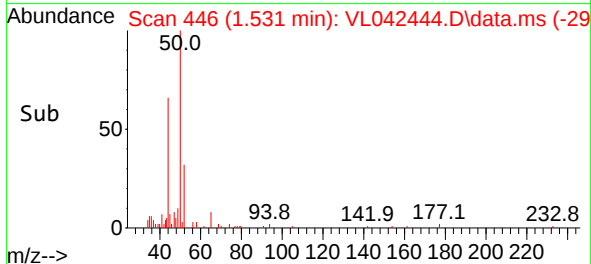
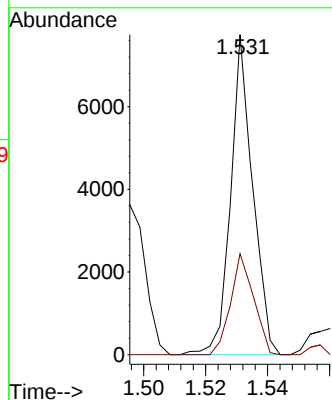
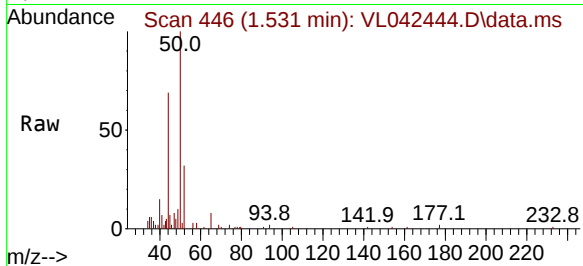




#4
Chloromethane
Concen: 0.462 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042444.D
Acq: 29 Apr 2025 13:45

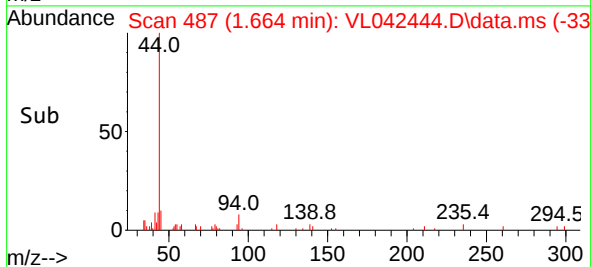
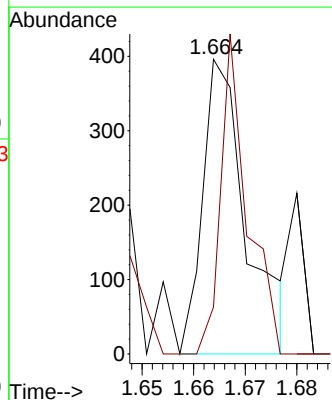
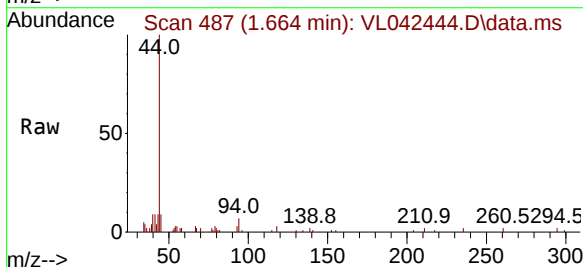
Instrument :
MSVOA_L
ClientSampleId :
B-2

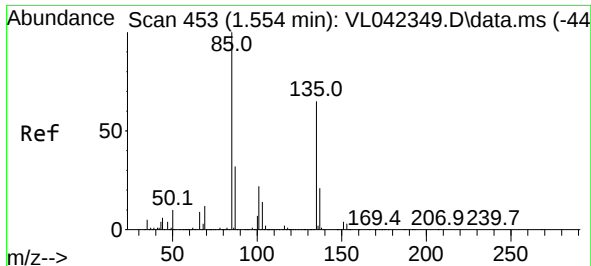
Tgt Ion: 50 Resp: 3830
Ion Ratio Lower Upper
50 100
52 31.6 24.7 37.1



#6
Bromomethane
Concen: 0.060 ppbv
RT: 1.664 min Scan# 487
Delta R.T. -0.003 min
Lab File: VL042444.D
Acq: 29 Apr 2025 13:45

Tgt Ion: 94 Resp: 232
Ion Ratio Lower Upper
94 100
96 15.9 66.2 99.2#

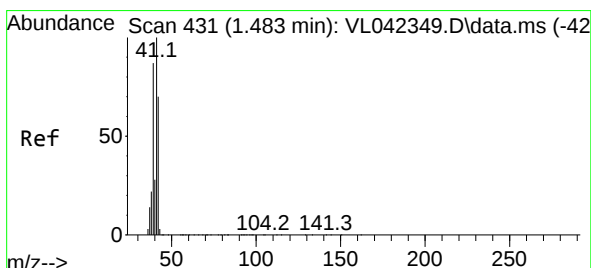
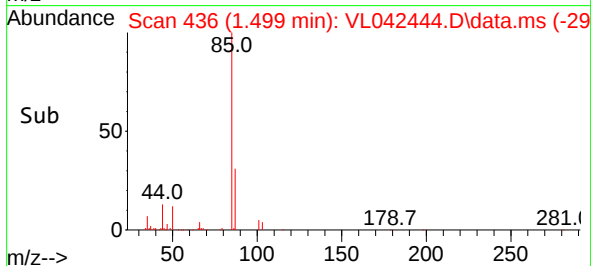
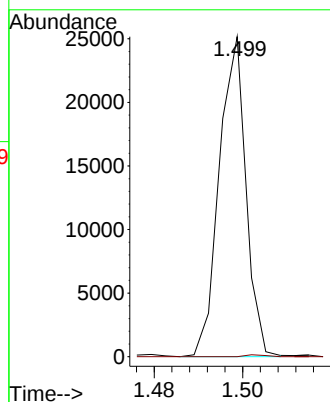
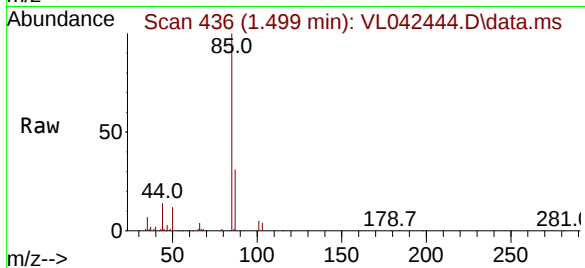




#8
 Dichlorotetrafluoroethane
 Concen: 0.585 ppbv
 RT: 1.499 min Scan# 41
 Delta R.T. -0.055 min
 Lab File: VL042444.D
 Acq: 29 Apr 2025 13:45

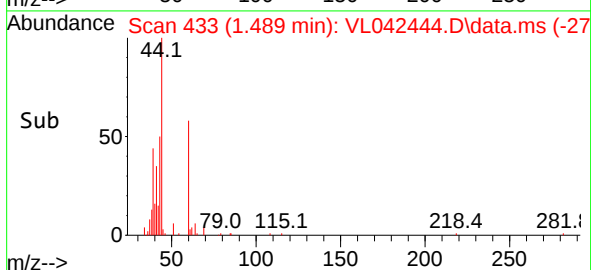
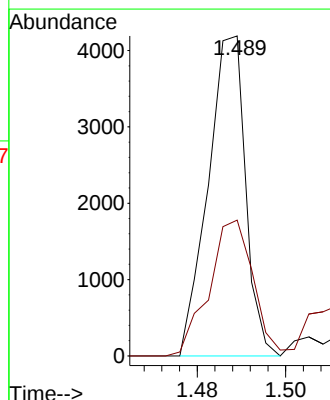
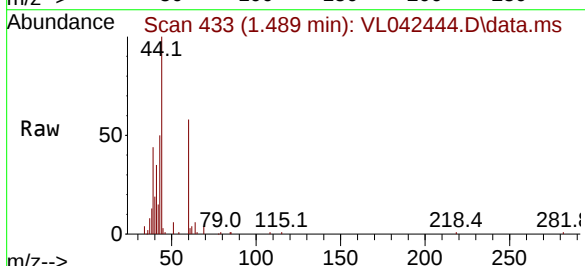
Instrument :
 MSVOA_L
 ClientSampleId :
 B-2

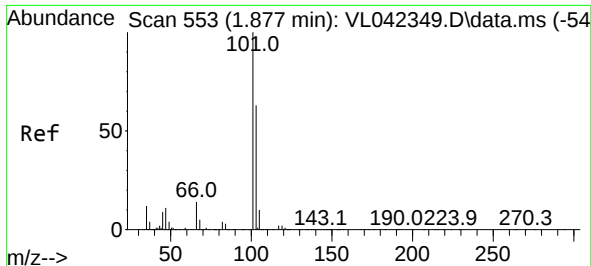
Tgt Ion: 85 Resp: 10518
 Ion Ratio Lower Upper
 85 100
 135 0.4 52.2 78.2#



#9
 Propene
 Concen: 0.271 ppbv
 RT: 1.489 min Scan# 433
 Delta R.T. 0.006 min
 Lab File: VL042444.D
 Acq: 29 Apr 2025 13:45

Tgt Ion: 41 Resp: 2467
 Ion Ratio Lower Upper
 41 100
 42 71.7 56.2 84.4

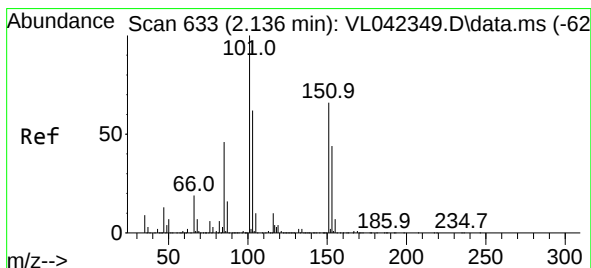
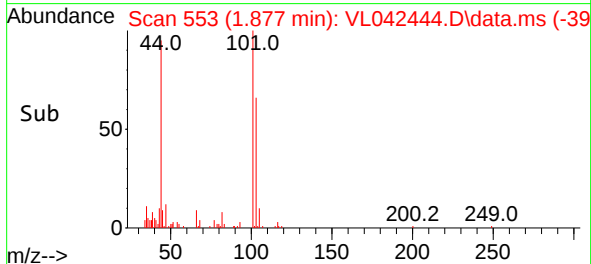
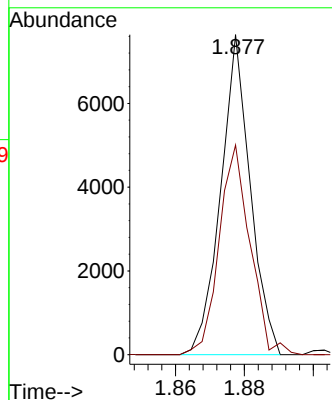
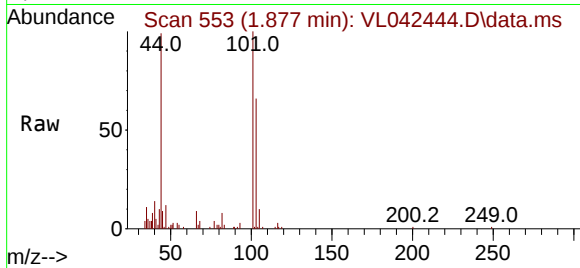




#11
 Trichlorofluoromethane
 Concen: 0.230 ppbv
 RT: 1.877 min Scan# 553
 Delta R.T. -0.000 min
 Lab File: VL042444.D
 Acq: 29 Apr 2025 13:45

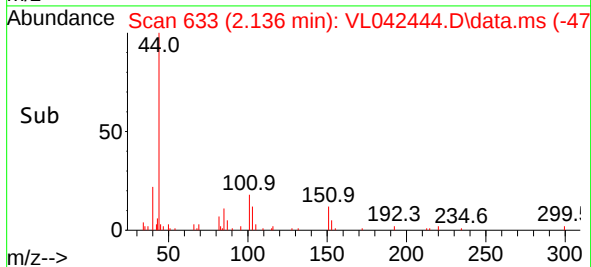
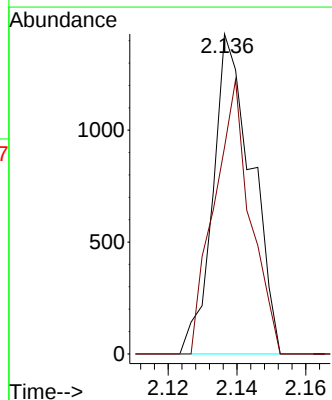
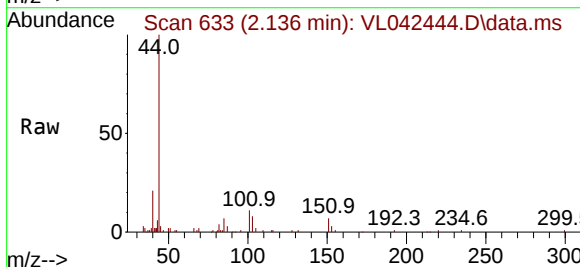
Instrument :
 MSVOA_L
 ClientSampleId :
 B-2

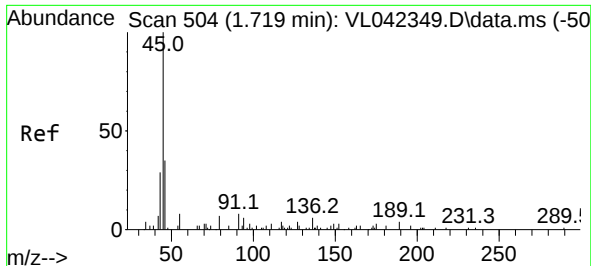
Tgt Ion:101 Resp: 4574
 Ion Ratio Lower Upper
 101 100
 103 65.5 50.1 75.1



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.068 ppbv
 RT: 2.136 min Scan# 633
 Delta R.T. -0.000 min
 Lab File: VL042444.D
 Acq: 29 Apr 2025 13:45

Tgt Ion:101 Resp: 1115
 Ion Ratio Lower Upper
 101 100
 151 80.0 57.0 85.6

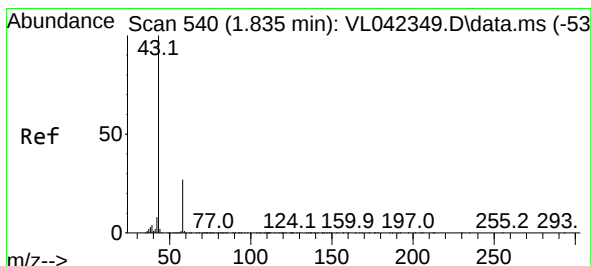
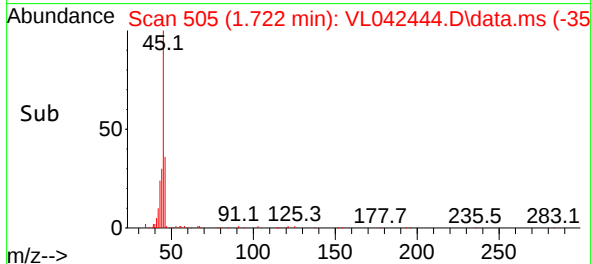
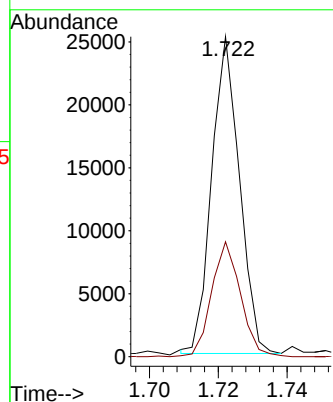
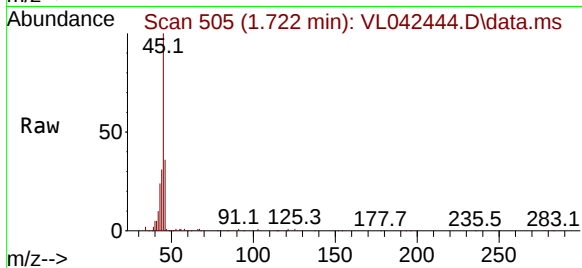




#13
Ethanol
Concen: 9.763 ppbv
RT: 1.722 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL042444.D
Acq: 29 Apr 2025 13:45

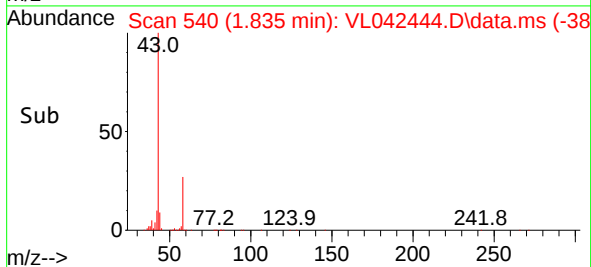
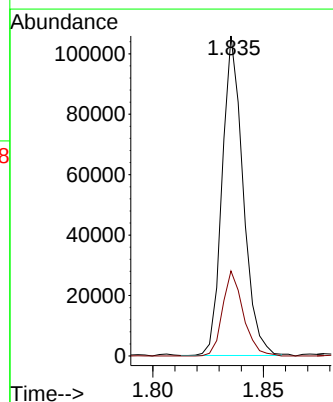
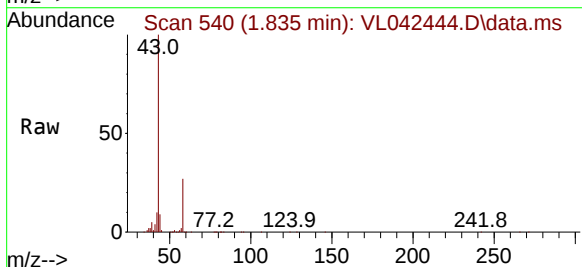
Instrument :
MSVOA_L
ClientSampleId :
B-2

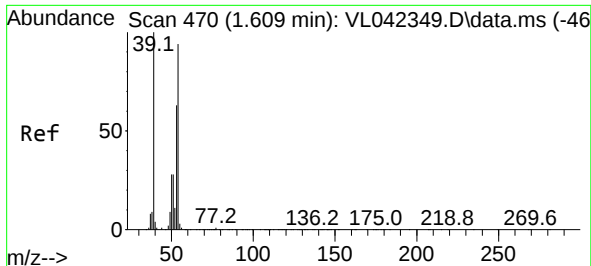
Tgt Ion: 45 Resp: 14101
Ion Ratio Lower Upper
45 100
46 0.0 21.9 87.7#



#15
Acetone
Concen: 3.590 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.000 min
Lab File: VL042444.D
Acq: 29 Apr 2025 13:45

Tgt Ion: 43 Resp: 69707
Ion Ratio Lower Upper
43 100
58 26.1 22.4 33.6

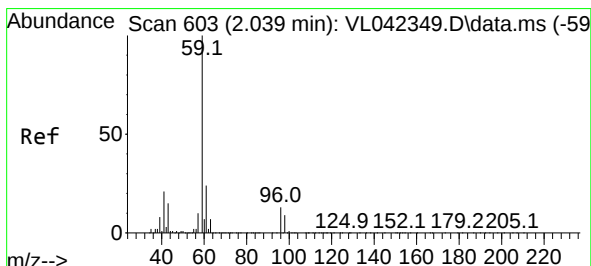
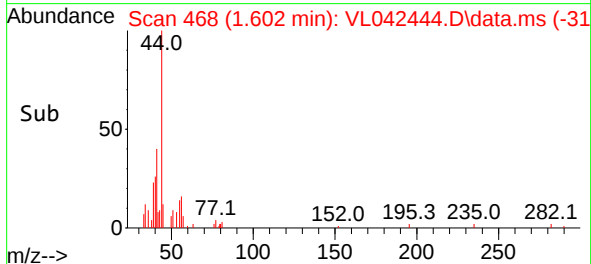
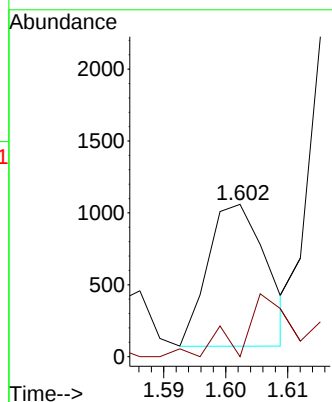
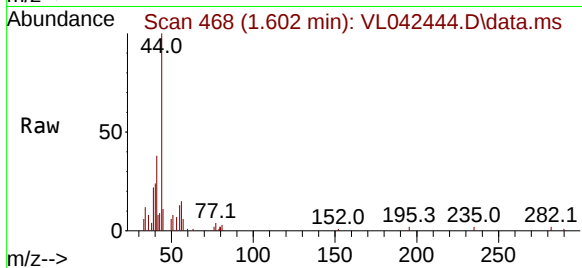




#16
1,3-Butadiene
Concen: 0.070 ppbv
RT: 1.602 min Scan# 41
Delta R.T. -0.006 min
Lab File: VL042444.D
Acq: 29 Apr 2025 13:45

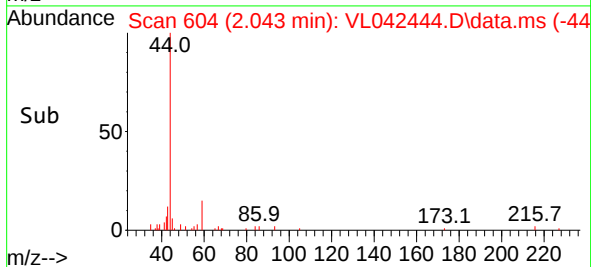
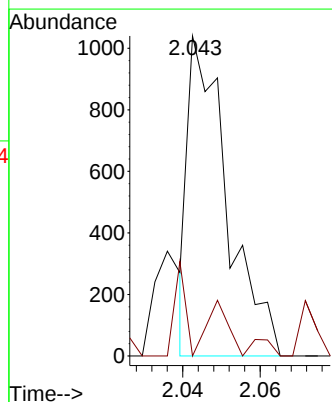
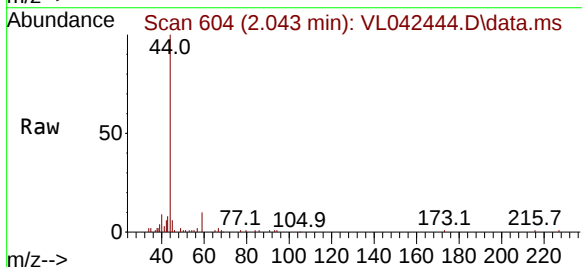
Instrument :
MSVOA_L
ClientSampleId :
B-2

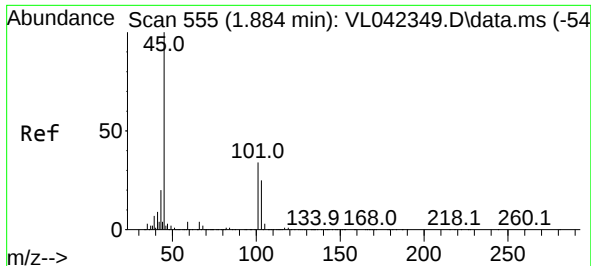
Tgt Ion: 39 Resp: 649
Ion Ratio Lower Upper
39 100
54 49.5 64.9 97.3#



#17
tert-Butyl alcohol
Concen: 0.031 ppbv
RT: 2.043 min Scan# 604
Delta R.T. 0.003 min
Lab File: VL042444.D
Acq: 29 Apr 2025 13:45

Tgt Ion: 59 Resp: 736
Ion Ratio Lower Upper
59 100
57 0.0 8.7 13.1#

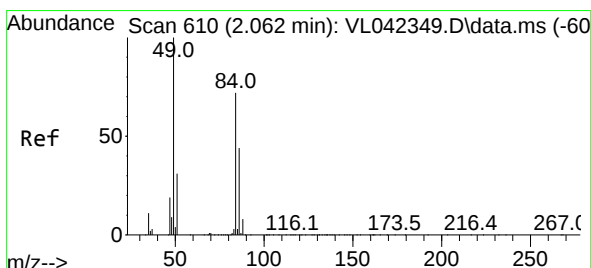
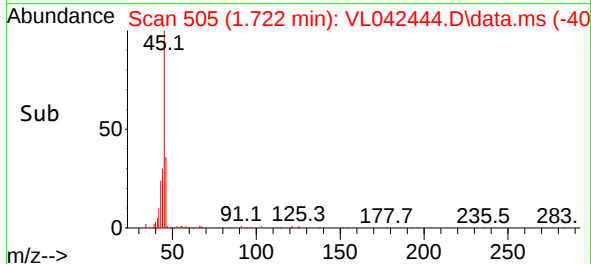
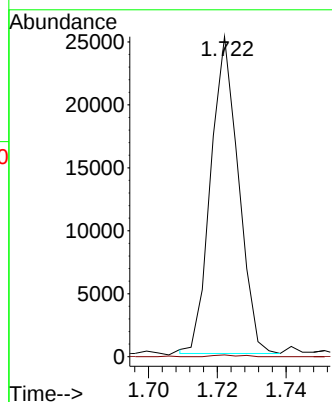
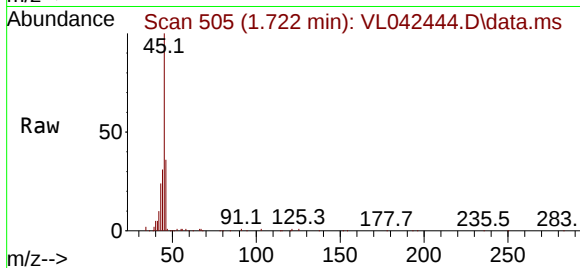




#19
Isopropyl Alcohol
Concen: 1.307 ppbv
RT: 1.722 min Scan# 505
Delta R.T. -0.162 min
Lab File: VL042444.D
Acq: 29 Apr 2025 13:45

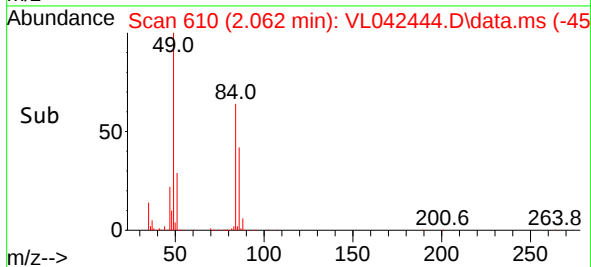
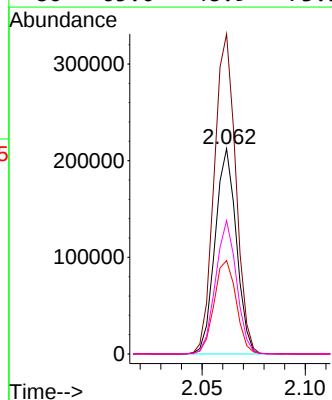
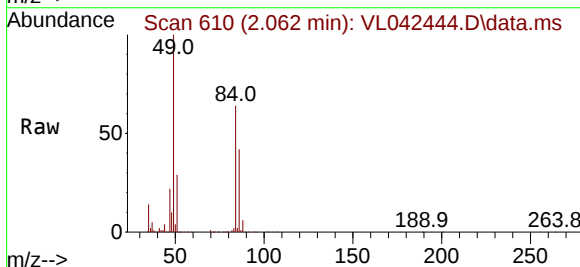
Instrument :
MSVOA_L
ClientSampleId :
B-2

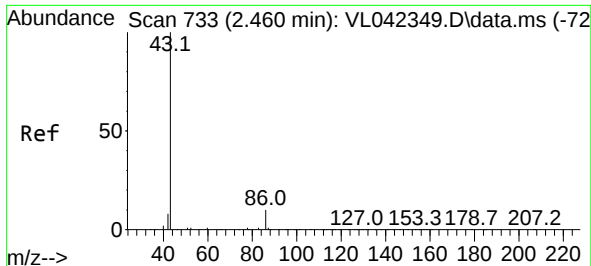
Tgt Ion: 45 Resp: 14101
Ion Ratio Lower Upper
45 100
58 14.6 34.5 51.7#



#20
Methylene Chloride
Concen: 20.044 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.000 min
Lab File: VL042444.D
Acq: 29 Apr 2025 13:45

Tgt Ion: 84 Resp: 152405
Ion Ratio Lower Upper
84 100
49 155.9 111.6 167.4
51 45.5 35.1 52.7
86 65.0 48.9 73.3



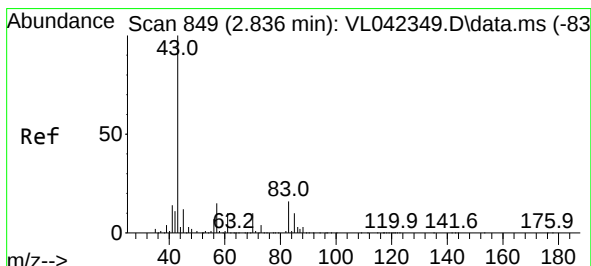
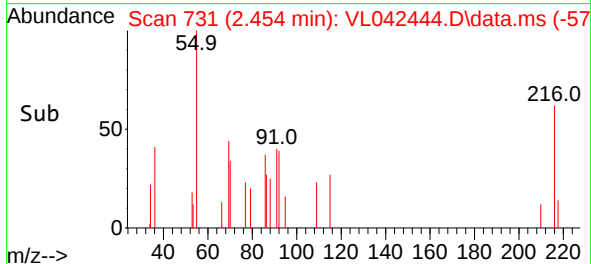
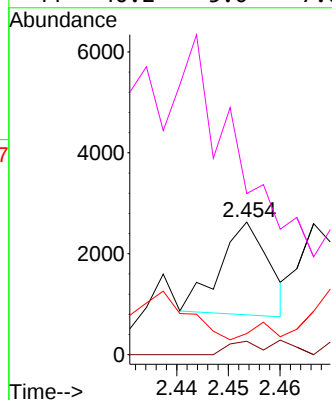
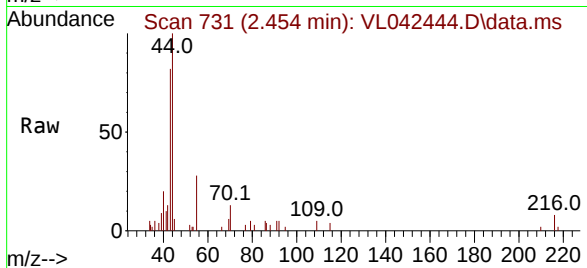


#23
Vinyl Acetate
Concen: 0.154 ppbv
RT: 2.454 min Scan# 71
Delta R.T. -0.006 min
Lab File: VL042444.D
Acq: 29 Apr 2025 13:45

Instrument :
MSVOA_L
ClientSampleId :
B-2

Tgt Ion: 43 Resp: 1207

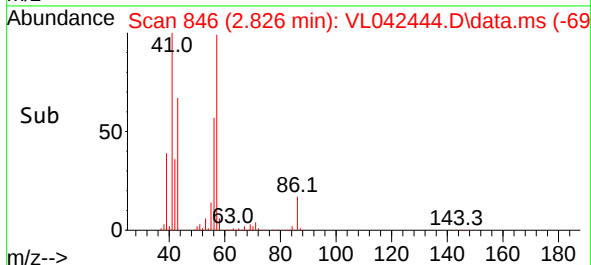
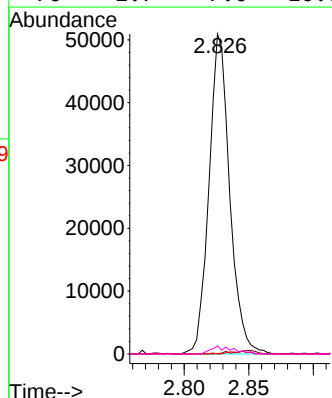
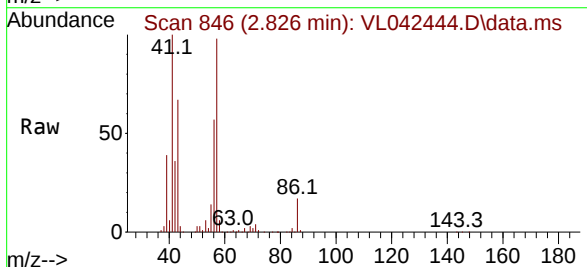
Ion	Ratio	Lower	Upper
43	100		
86	15.2	6.5	9.7#
42	3.5	7.8	11.8#
44	40.2	5.0	7.6#

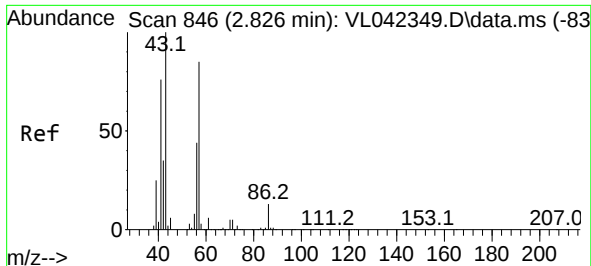


#25
Ethyl Acetate
Concen: 1.190 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.010 min
Lab File: VL042444.D
Acq: 29 Apr 2025 13:45

Tgt Ion: 43 Resp: 56986

Ion	Ratio	Lower	Upper
43	100		
45	1.2	8.3	12.5#
61	0.8	7.3	10.9#
70	2.7	7.0	10.6#

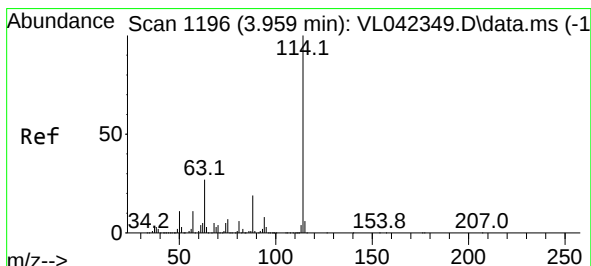
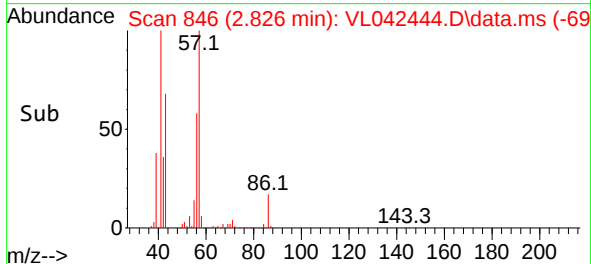
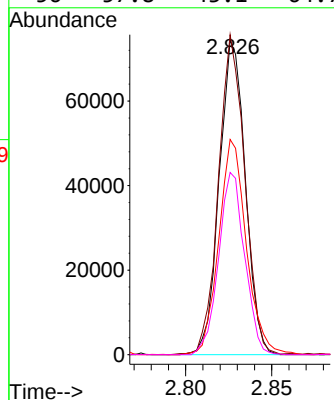
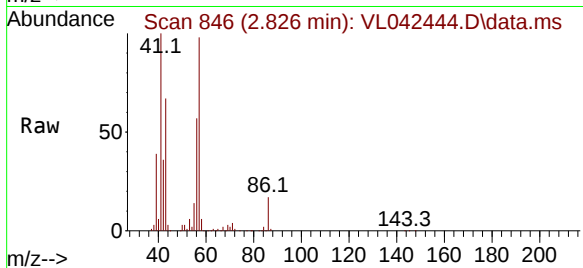




#26
Hexane
Concen: 4.048 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.000 min
Lab File: VL042444.D
Acq: 29 Apr 2025 13:45

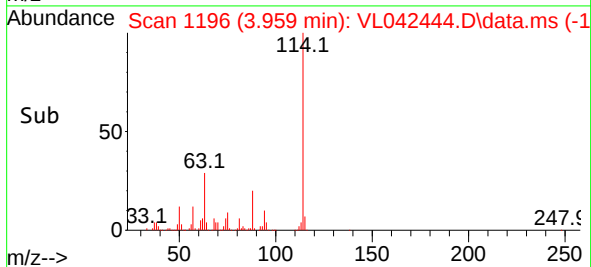
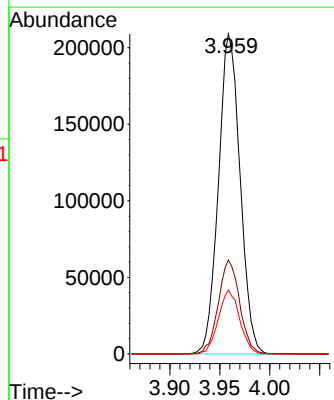
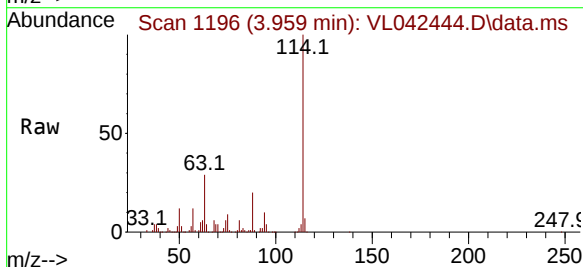
Instrument :
MSVOA_1
ClientSampleId :
B-2

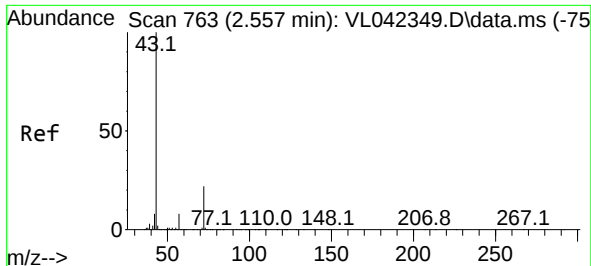
Tgt Ion: 57	Resp: 78428		
Ion	Ratio	Lower	Upper
57	100		
41	102.9	77.9	116.9
43	72.9	208.4	312.6#
56	57.8	43.1	64.7



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. -0.000 min
Lab File: VL042444.D
Acq: 29 Apr 2025 13:45

Tgt Ion:114	Resp: 314605
Ion Ratio	Lower Upper
114 100	
63 29.0	21.8 32.6
88 19.6	15.5 23.3

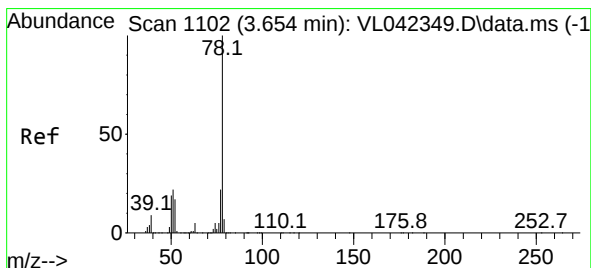
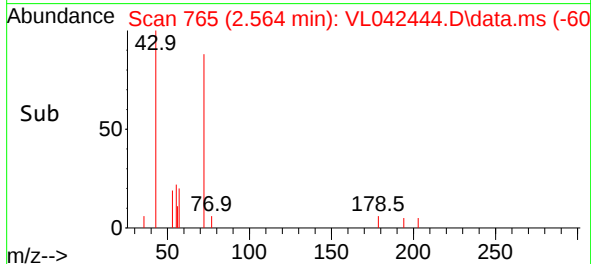
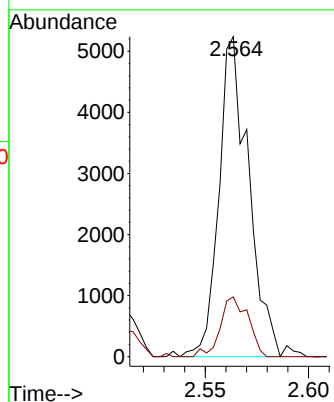
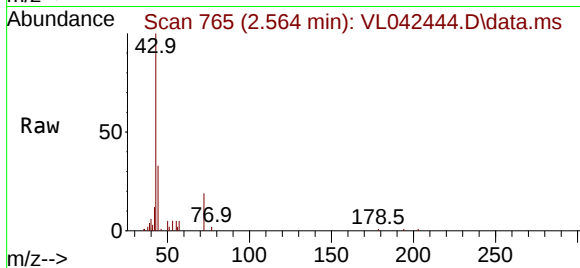




#34
2-Butanone
Concen: 0.210 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.006 min
Lab File: VL042444.D
Acq: 29 Apr 2025 13:45

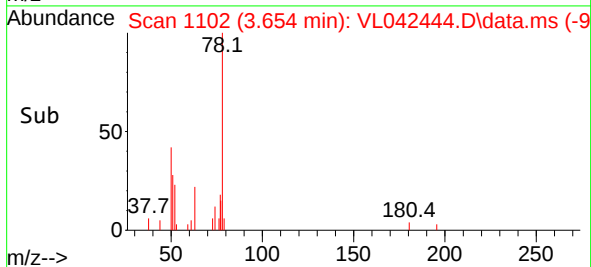
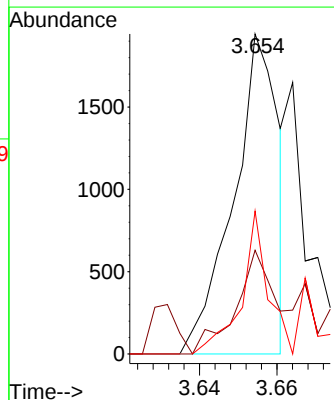
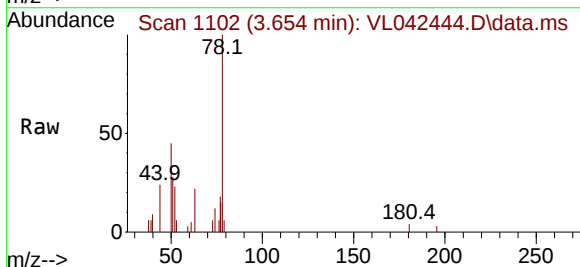
Instrument :
MSVOA_L
ClientSampleId :
B-2

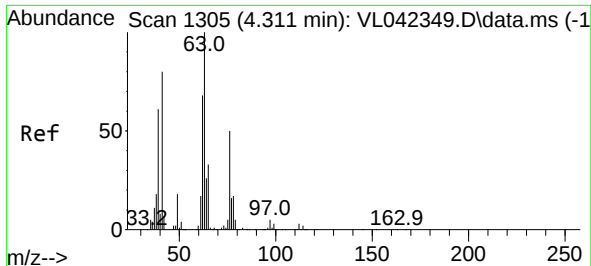
Tgt Ion: 43 Resp: 5224
Ion Ratio Lower Upper
43 100
72 17.5 18.2 27.2#



#36
Benzene
Concen: 0.046 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. -0.000 min
Lab File: VL042444.D
Acq: 29 Apr 2025 13:45

Tgt Ion: 78 Resp: 1565
Ion Ratio Lower Upper
78 100
77 25.9 17.4 26.0
50 44.7 15.5 23.3#





#39

1,2-Dichloropropane

Concen: 7.201 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. -0.353 min

Lab File: VL042444.D

Acq: 29 Apr 2025 13:45

Instrument :

MSVOA_L

ClientSampleId :

B-2

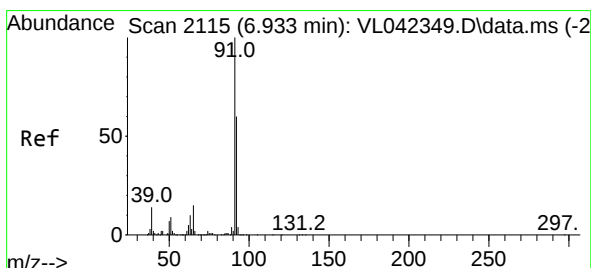
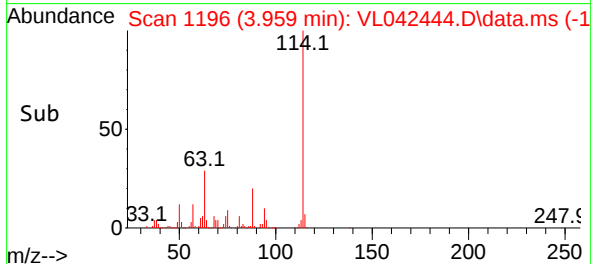
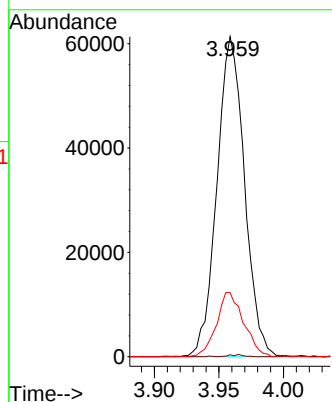
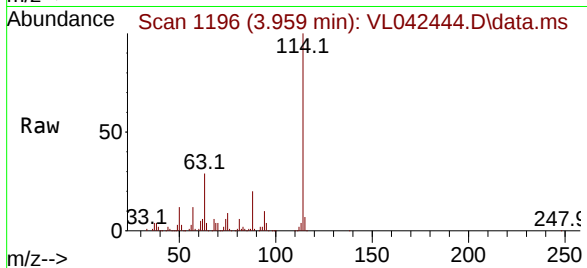
Tgt Ion: 63 Resp: 91054

Ion Ratio Lower Upper

63 100

41 0.5 64.2 96.2#

62 20.0 54.3 81.5#



#53

Toluene

Concen: 0.100 ppbv

RT: 6.943 min Scan# 2118

Delta R.T. 0.010 min

Lab File: VL042444.D

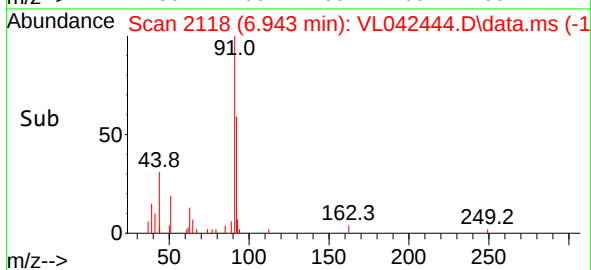
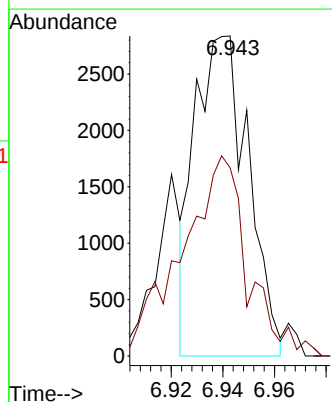
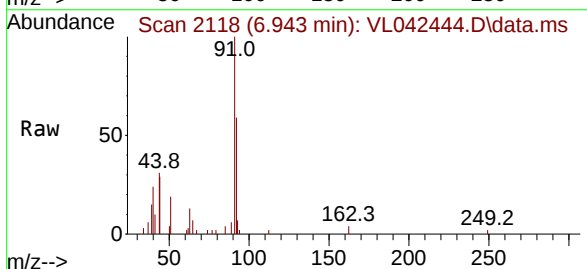
Acq: 29 Apr 2025 13:45

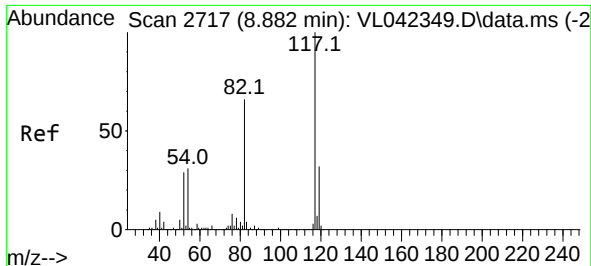
Tgt Ion: 91 Resp: 4077

Ion Ratio Lower Upper

91 100

92 77.0 48.2 72.4#

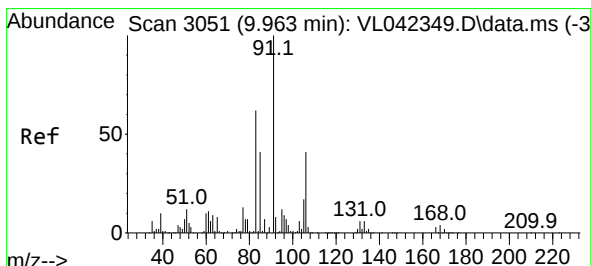
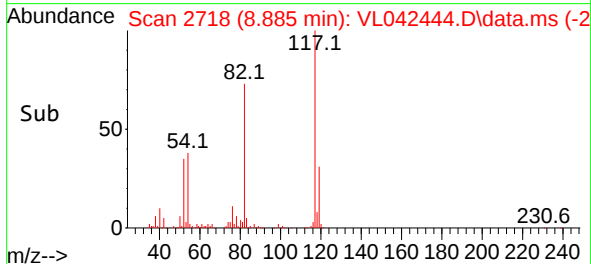
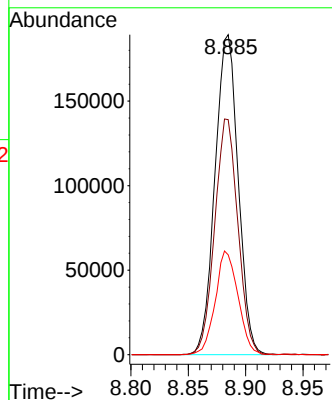
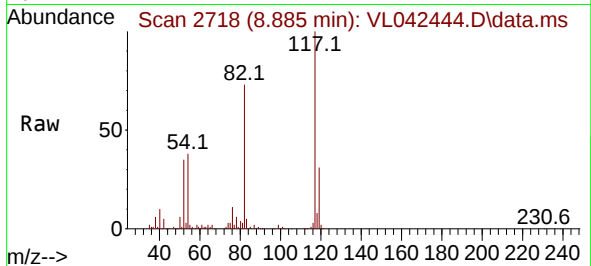




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042444.D
Acq: 29 Apr 2025 13:45

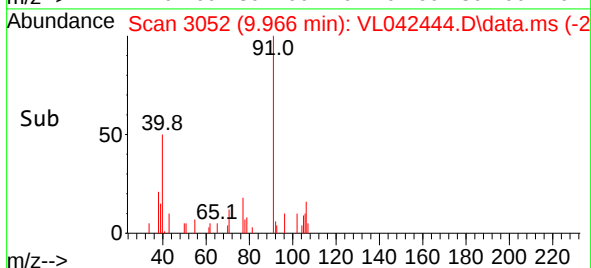
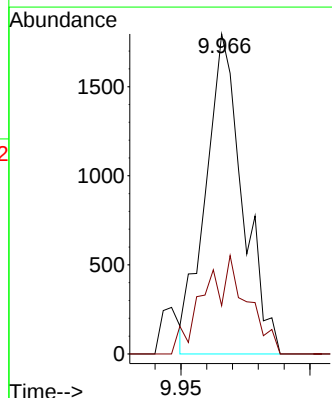
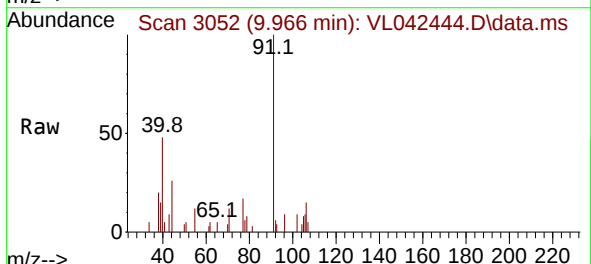
Instrument :
MSVOA_L
ClientSampleId :
B-2

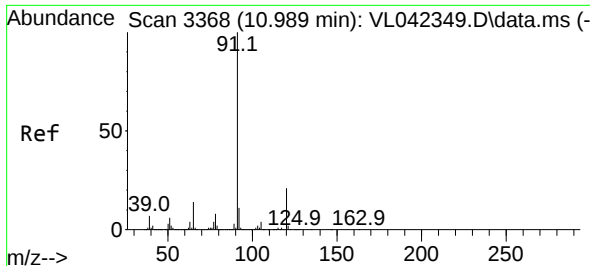
Tgt Ion:117 Resp: 266515
Ion Ratio Lower Upper
117 100
82 73.5 57.8 86.6
119 31.8 25.2 37.8



#60
o-Xylene
Concen: 0.042 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. 0.003 min
Lab File: VL042444.D
Acq: 29 Apr 2025 13:45

Tgt Ion: 91 Resp: 1798
Ion Ratio Lower Upper
91 100
106 35.7 21.1 63.4

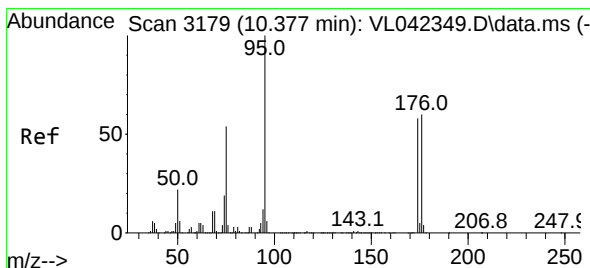
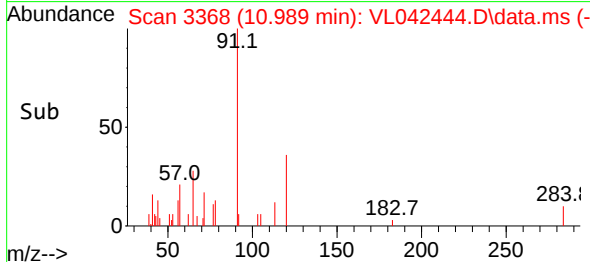
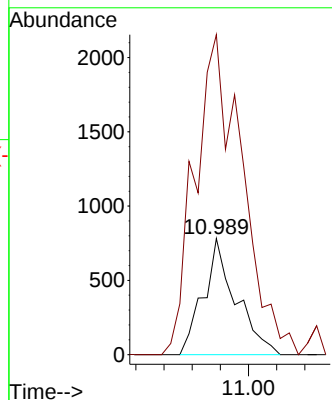
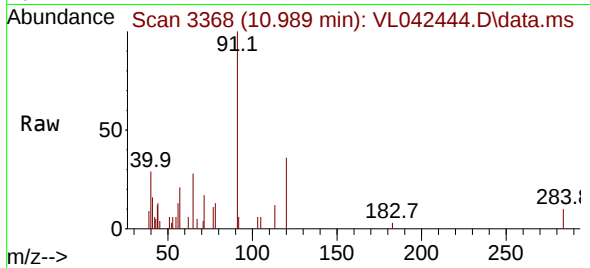




#64
n-propylbenzene
Concen: 0.040 ppbv
RT: 10.989 min Scan# 3179
Delta R.T. -0.000 min
Lab File: VL042444.D
Acq: 29 Apr 2025 13:45

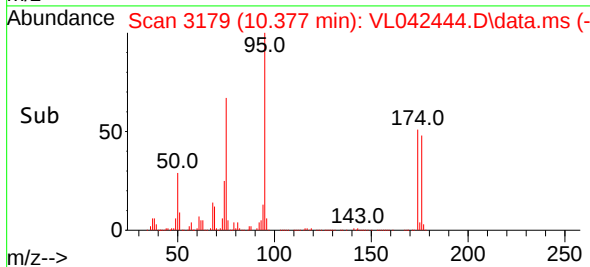
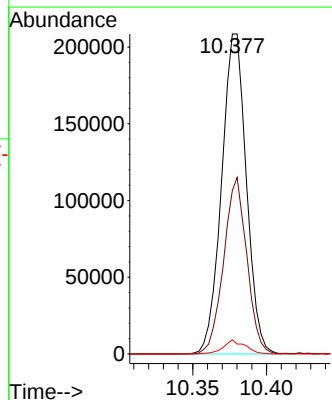
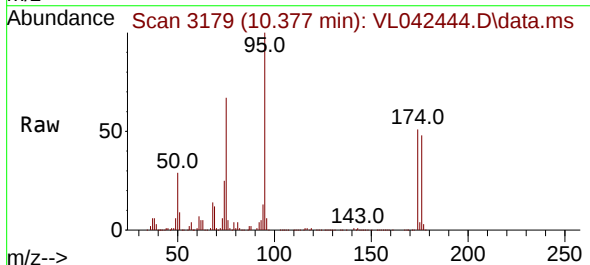
Instrument :
MSVOA_L
ClientSampleId :
B-2

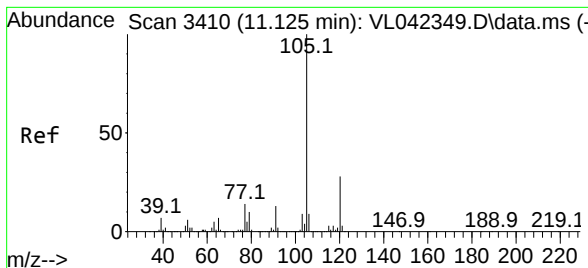
Tgt Ion:120 Resp: 627
Ion Ratio Lower Upper
120 100
91 408.3 392.4 588.6



#68
1-Bromo-4-Fluorobenzene
Concen: 11.109 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. -0.000 min
Lab File: VL042444.D
Acq: 29 Apr 2025 13:45

Tgt Ion: 95 Resp: 243301
Ion Ratio Lower Upper
95 100
174 51.7 48.5 72.7
175 3.8 3.7 5.5

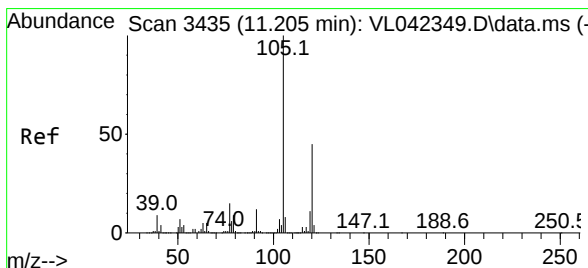
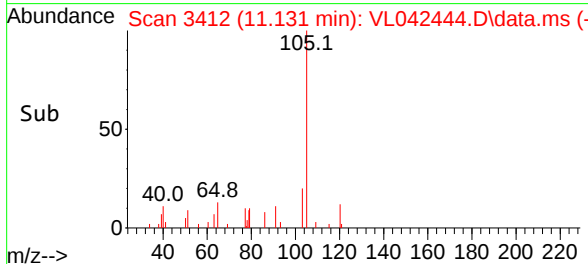
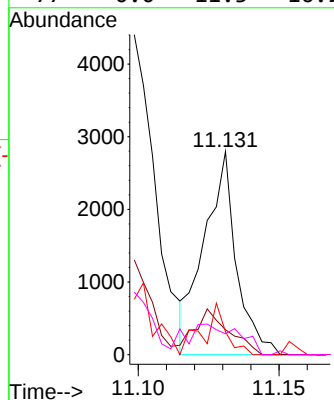
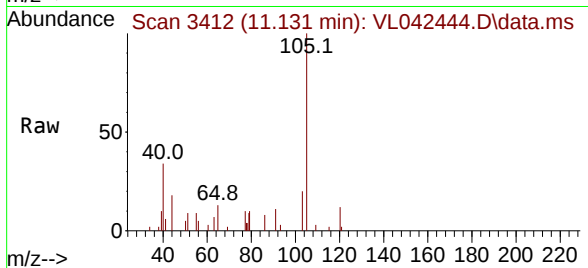




#72
4-Ethyltoluene
Concen: 0.043 ppbv
RT: 11.131 min Scan# 3410
Delta R.T. 0.006 min
Lab File: VL042444.D
Acq: 29 Apr 2025 13:45

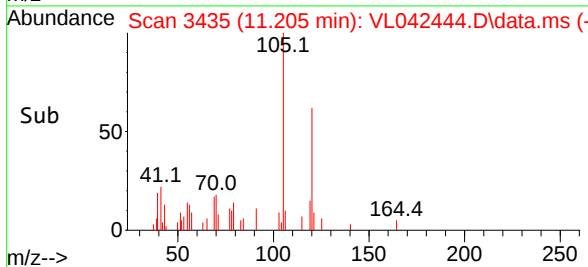
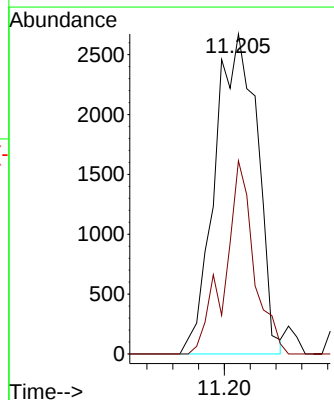
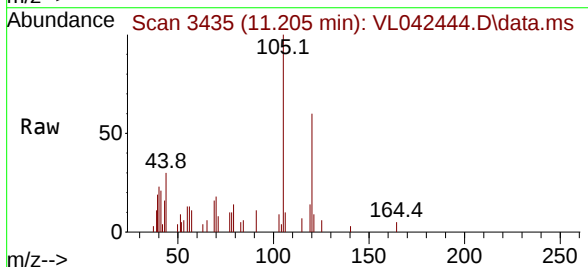
Instrument :
MSVOA_L
ClientSampleId :
B-2

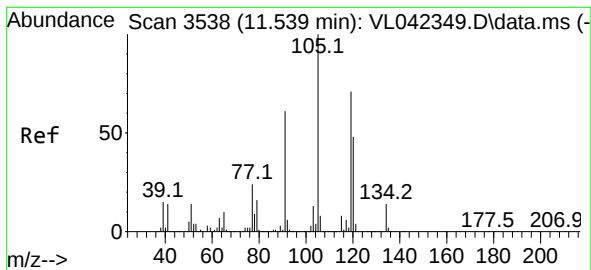
Tgt Ion:	105	Resp:	2229
Ion	Ratio	Lower	Upper
105	100		
120	0.0	23.2	34.8#
91	0.0	10.4	15.6#
77	0.0	11.3	16.9#



#73
1,3,5-Trimethylbenzene
Concen: 0.066 ppbv
RT: 11.205 min Scan# 3435
Delta R.T. -0.000 min
Lab File: VL042444.D
Acq: 29 Apr 2025 13:45

Tgt Ion:	105	Resp:	3050
Ion	Ratio	Lower	Upper
105	100		
120	60.3	35.6	53.4#





#74

1,2,4-Trimethylbenzene

Concen: 0.171 ppbv

RT: 11.542 min Scan# 31

Delta R.T. 0.003 min

Lab File: VL042444.D

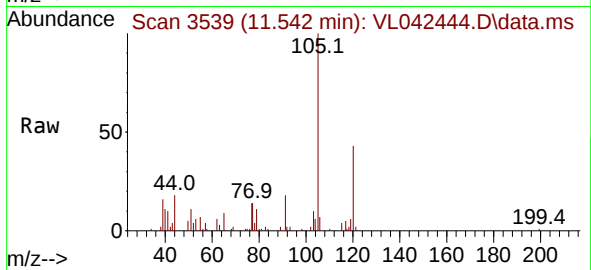
Acq: 29 Apr 2025 13:45

Instrument :

MSVOA_L

ClientSampleId :

B-2



Tgt Ion:105 Resp: 9220

Ion Ratio Lower Upper

105 100

120 43.2 38.1 57.1

91 20.1 48.8 73.2#

77 28.4 19.0 28.4

