

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112723\
 Data File : VL040908.D
 Acq On : 27 Nov 2023 15:11
 Operator : SY/MD
 Sample : 05520-01DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Nov 28 04:38:34 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111323AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Nov 28 04:31:59 2023
 Response via : Initial Calibration

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

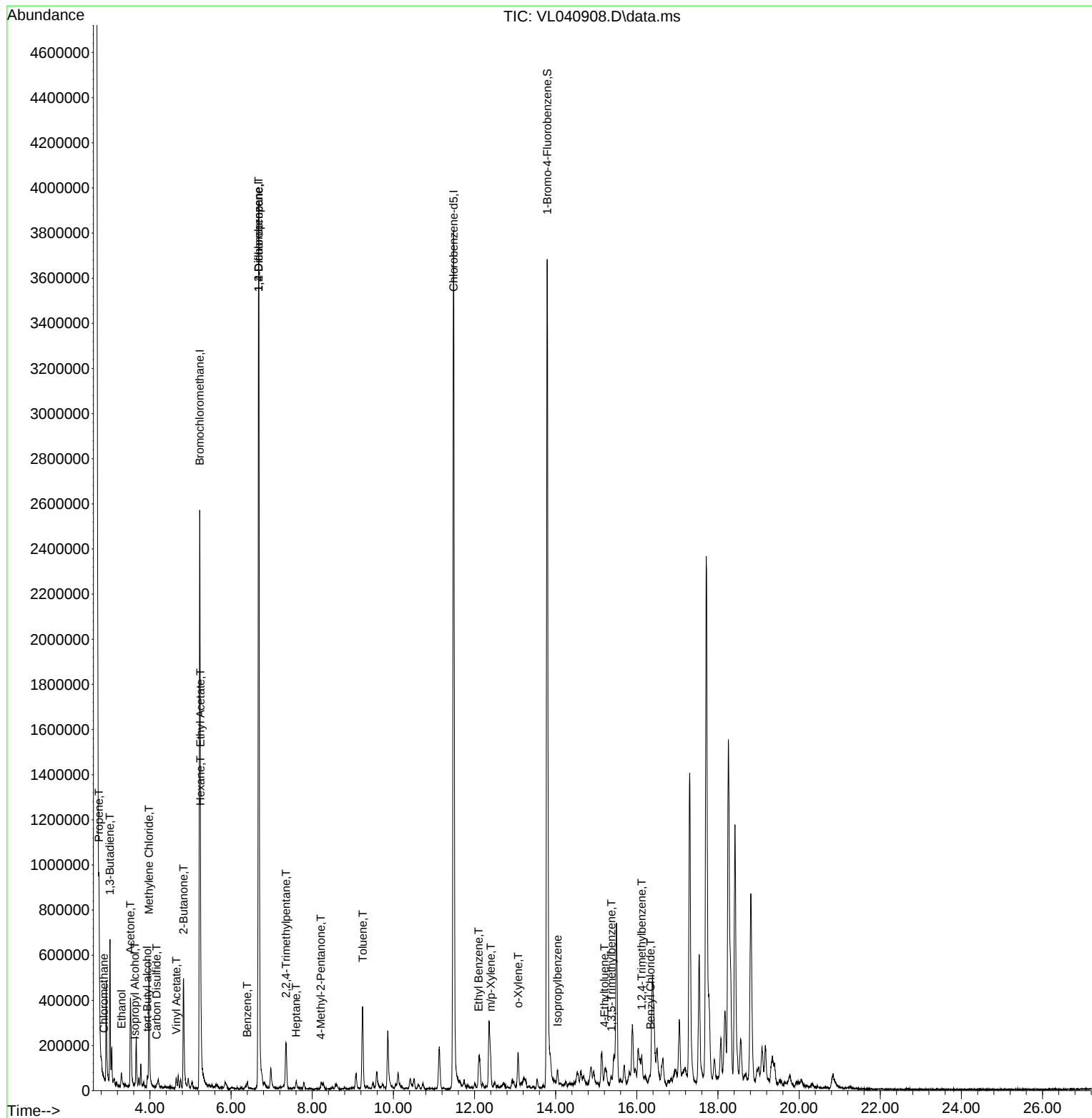
Internal Standards						
1) Bromochloromethane	5.227	49	1182319	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.680	114	2941173	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.484	117	2490722	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.793	95	1881677	9.649	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.500%
Target Compounds						
					Qvalue	
4) Chloromethane	2.864	50	2353	0.035	ppbv #	42
9) Propene	2.745	41	159672	2.510	ppbv	97
10) Heptane	7.603	43	8285	0.053	ppbv #	22
13) Ethanol	3.298	45	69608	5.635	ppbv #	100
15) Acetone	3.517	43	420457	3.339	ppbv	90
16) 1,3-Butadiene	3.015	39	161812	2.540	ppbv #	21
17) tert-Butyl alcohol	3.935	59	26557	0.247	ppbv #	92
19) Isopropyl Alcohol	3.632	45	10721	0.141	ppbv #	94
20) Methylene Chloride	3.976	84	177386	3.413	ppbv	94
23) Vinyl Acetate	4.652	43	24175	0.149	ppbv #	7
25) Ethyl Acetate	5.243	43	105394	0.404	ppbv #	90
26) Hexane	5.246	57	100209	0.868	ppbv #	50
27) Carbon Disulfide	4.166	76	13263	0.091	ppbv #	19
34) 2-Butanone	4.828	43	611948	4.084	ppbv	98
36) Benzene	6.397	78	19182	0.080	ppbv #	83
39) 1,2-Dichloropropane	6.677	63	742432	7.844	ppbv #	23
44) 2,2,4-Trimethylpentane	7.352	57	188581	0.476	ppbv #	88
50) 4-Methyl-2-Pentanone	8.214	43	8763	0.038	ppbv #	40
53) Toluene	9.243	91	205440	0.782	ppbv	98
58) Ethyl Benzene	12.105	91	102454	0.315	ppbv	90
59) m/p-Xylene	12.400	91	37178	0.134	ppbv #	32
60) o-Xylene	13.076	91	113463	0.431	ppbv	99
62) Isopropylbenzene	14.043	105	34160	0.088	ppbv #	49
66) Benzyl Chloride	16.336	91	376	0.031	ppbv #	62
72) 4-Ethyltoluene	15.204	105	45599	0.157	ppbv #	96
73) 1,3,5-Trimethylbenzene	15.371	105	9599	0.037	ppbv #	65
74) 1,2,4-Trimethylbenzene	16.121	105	80421	0.281	ppbv #	66

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

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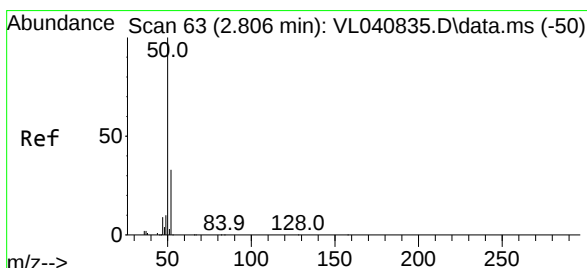
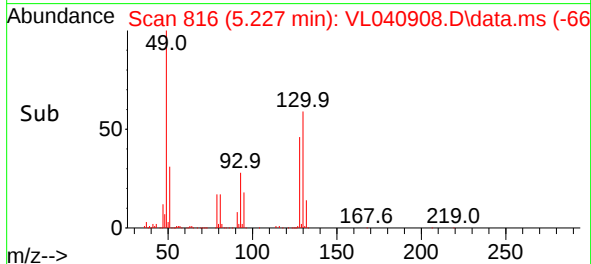
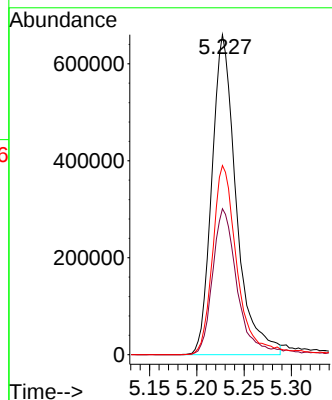
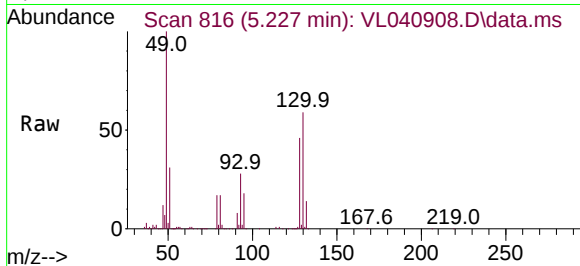




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.227 min Scan# 81
Delta R.T. 0.000 min
Lab File: VL040908.D
Acq: 27 Nov 2023 15:11

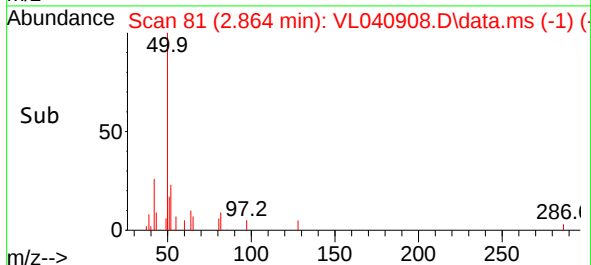
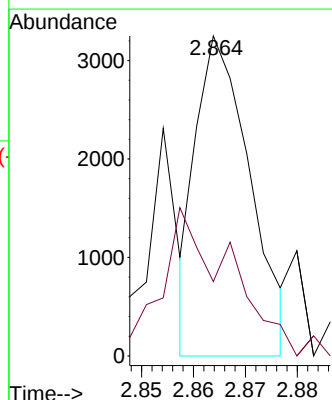
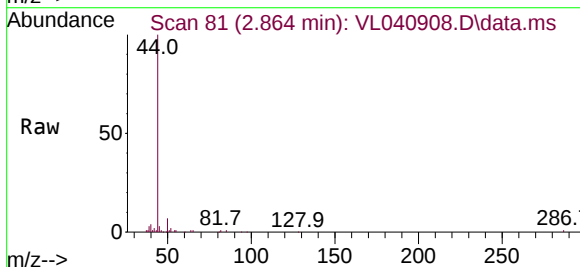
Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 49 Resp: 1182319
Ion Ratio Lower Upper
49 100
128 47.0 23.8 71.2
130 61.3 30.9 92.8

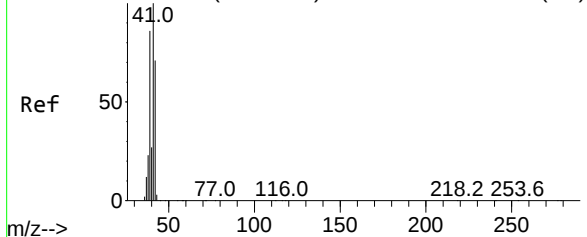


#4
Chloromethane
Concen: 0.035 ppbv
RT: 2.864 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL040908.D
Acq: 27 Nov 2023 15:11

Tgt Ion: 50 Resp: 2353
Ion Ratio Lower Upper
50 100
52 0.0 26.5 39.7



Abundance Scan 26 (2.687 min): VL040835.D\data.ms (-18)



#9

Propene

Concen: 2.510 ppbv

RT: 2.745 min Scan# 41

Delta R.T. -0.003 min

Lab File: VL040908.D

Acq: 27 Nov 2023 15:11

Instrument :

MSVOA_L

ClientSampleId :

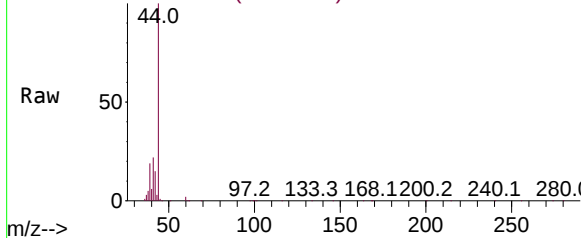
Tgt Ion: 41 Resp: 159672

Ion Ratio Lower Upper

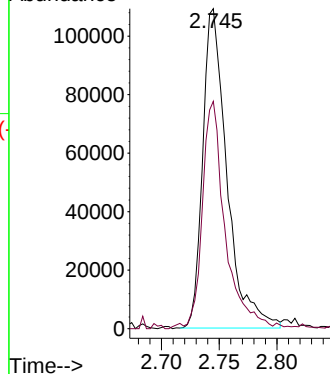
41 100

42 68.0 56.5 84.7

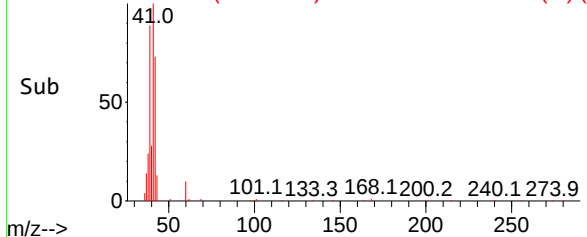
Abundance Scan 44 (2.745 min): VL040908.D\data.ms



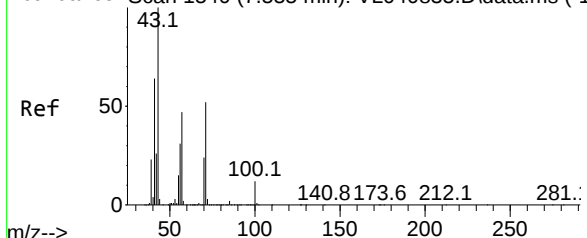
Abundance



Abundance Scan 44 (2.745 min): VL040908.D\data.ms (-1)



Abundance Scan 1540 (7.555 min): VL040835.D\data.ms (-1)



#10

Heptane

Concen: 0.053 ppbv

RT: 7.603 min Scan# 1555

Delta R.T. -0.003 min

Lab File: VL040908.D

Acq: 27 Nov 2023 15:11

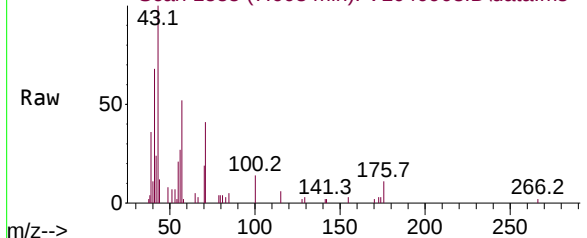
Tgt Ion: 43 Resp: 8285

Ion Ratio Lower Upper

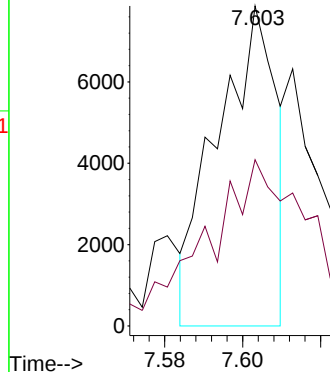
43 100

57 102.5 39.4 59.0#

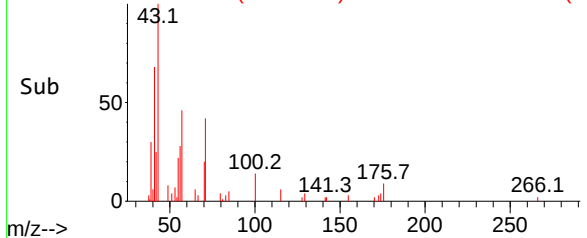
Abundance Scan 1555 (7.603 min): VL040908.D\data.ms

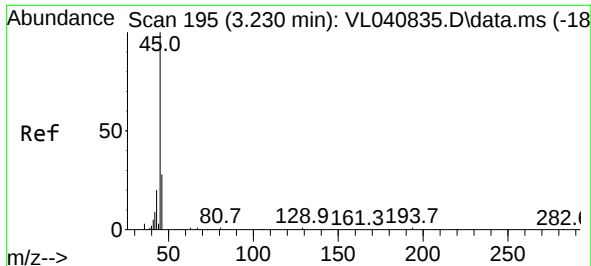


Abundance



Abundance Scan 1555 (7.603 min): VL040908.D\data.ms (-1)

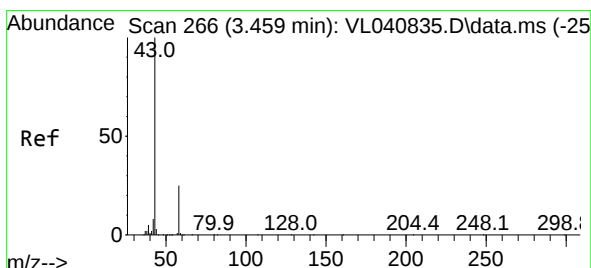
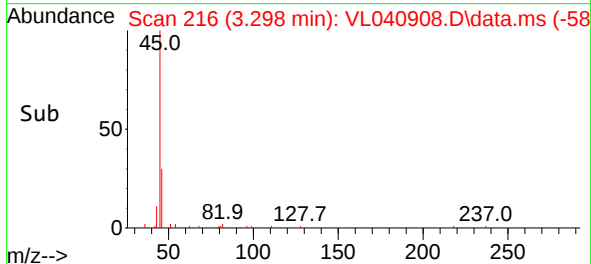
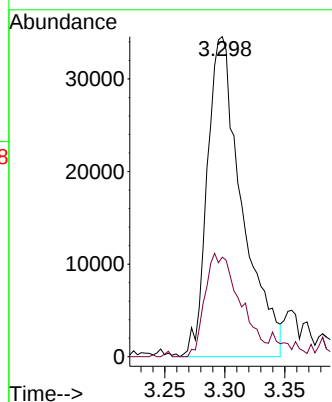
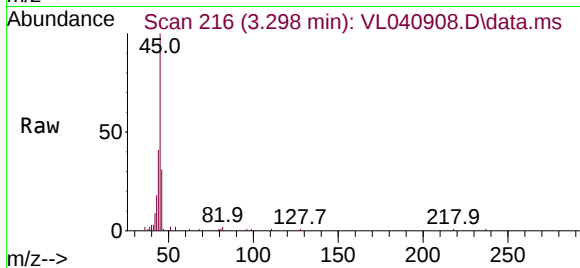




#13
 Ethanol
 Concen: 5.635 ppbv
 RT: 3.298 min Scan# 216
 Delta R.T. 0.010 min
 Lab File: VL040908.D
 Acq: 27 Nov 2023 15:11

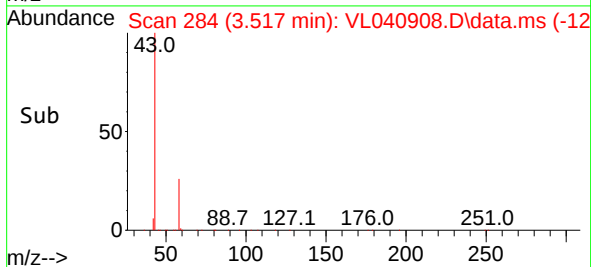
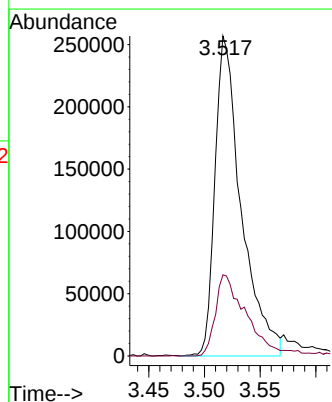
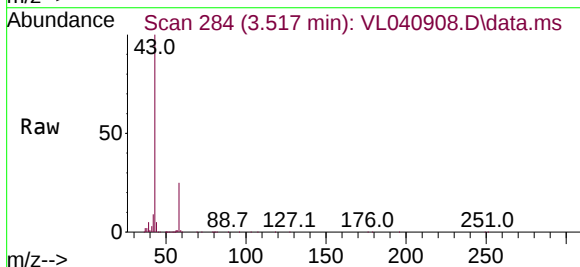
Instrument :
 MSVOA_L
 ClientSampleId :

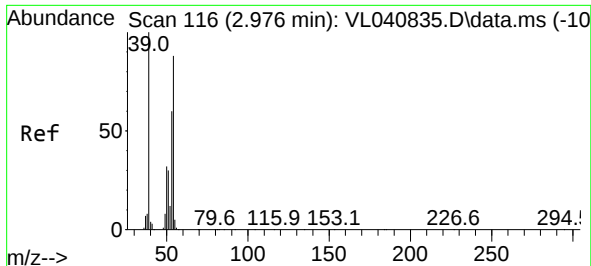
Tgt Ion: 45 Resp: 69608
 Ion Ratio Lower Upper
 45 100
 46 40.8 0.0 0.0#



#15
 Acetone
 Concen: 3.339 ppbv
 RT: 3.517 min Scan# 284
 Delta R.T. 0.003 min
 Lab File: VL040908.D
 Acq: 27 Nov 2023 15:11

Tgt Ion: 43 Resp: 420457
 Ion Ratio Lower Upper
 43 100
 58 31.2 20.9 31.3





#16

1,3-Butadiene

Concen: 2.540 ppbv

RT: 3.015 min Scan# 11

Delta R.T. -0.019 min

Lab File: VL040908.D

Acq: 27 Nov 2023 15:11

Instrument :

MSVOA_L

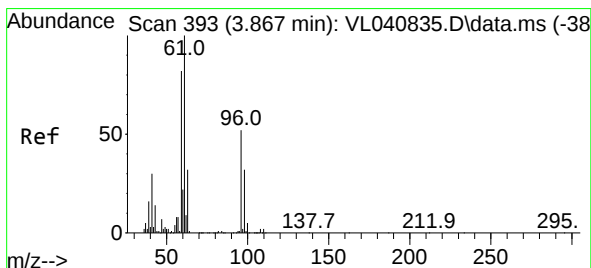
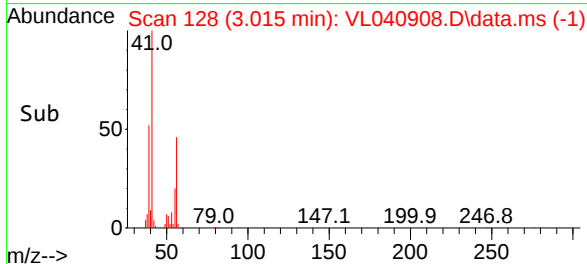
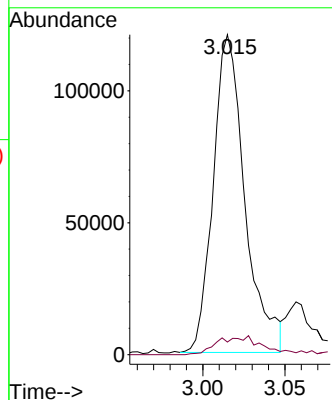
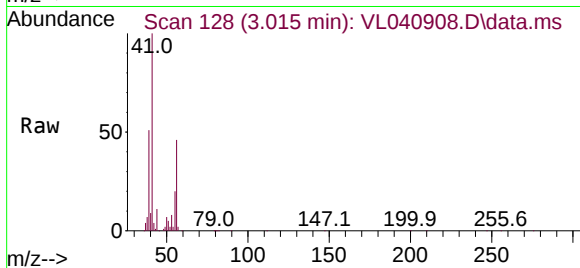
ClientSampleId :

Tgt Ion: 39 Resp: 161812

Ion Ratio Lower Upper

39 100

54 9.0 61.8 92.6#



#17

tert-Butyl alcohol

Concen: 0.247 ppbv

RT: 3.935 min Scan# 414

Delta R.T. 0.013 min

Lab File: VL040908.D

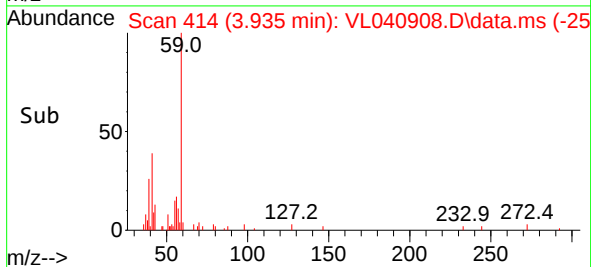
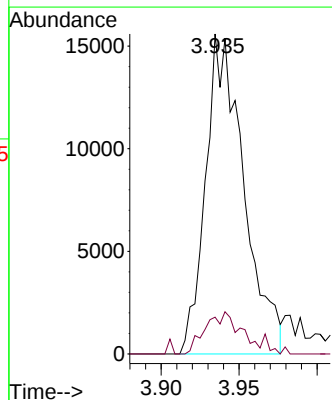
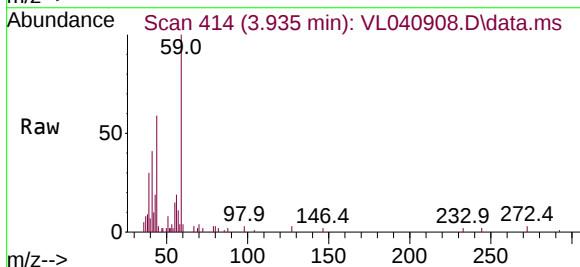
Acq: 27 Nov 2023 15:11

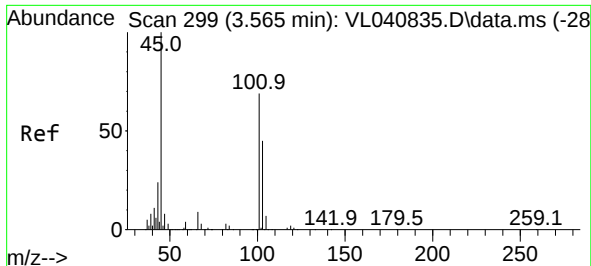
Tgt Ion: 59 Resp: 26557

Ion Ratio Lower Upper

59 100

57 14.1 9.0 13.4#





#19

Isopropyl Alcohol

Concen: 0.141 ppbv

RT: 3.632 min Scan# 31

Delta R.T. 0.013 min

Lab File: VL040908.D

Acq: 27 Nov 2023 15:11

Instrument :

MSVOA_L

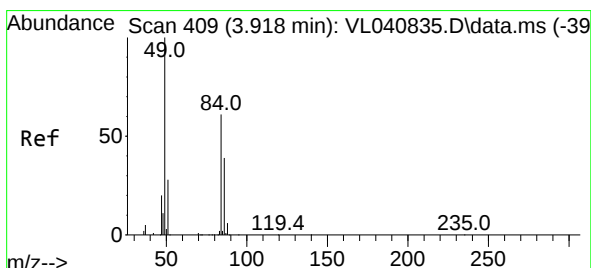
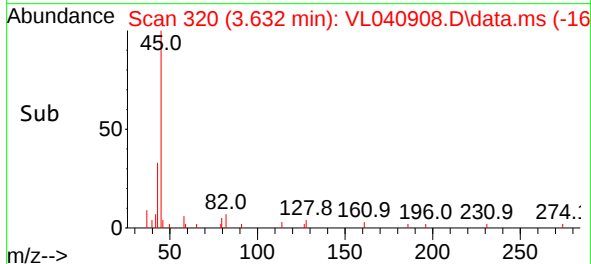
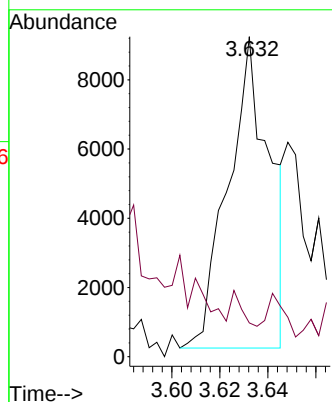
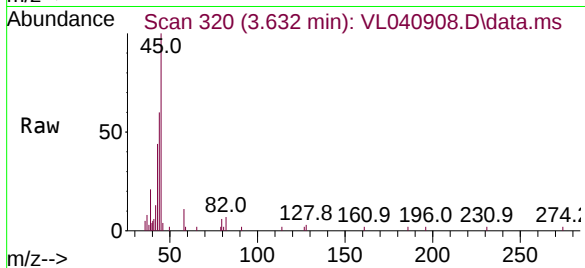
ClientSampleId :

Tgt Ion: 45 Resp: 10721

Ion Ratio Lower Upper

45 100

58 0.0 1.6 2.4#



#20

Methylene Chloride

Concen: 3.413 ppbv

RT: 3.976 min Scan# 427

Delta R.T. -0.000 min

Lab File: VL040908.D

Acq: 27 Nov 2023 15:11

Tgt Ion: 84 Resp: 177386

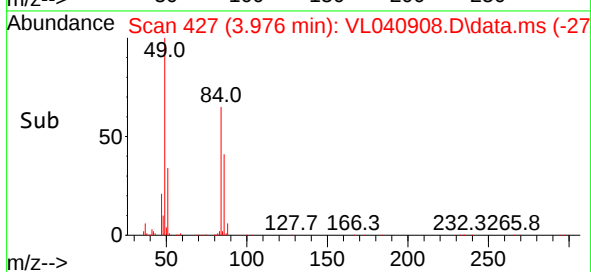
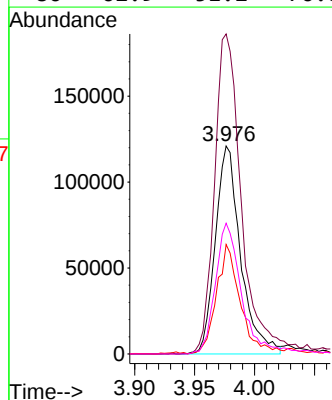
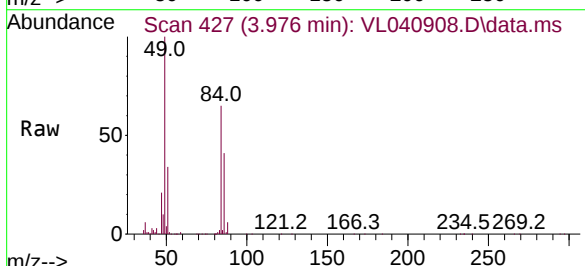
Ion Ratio Lower Upper

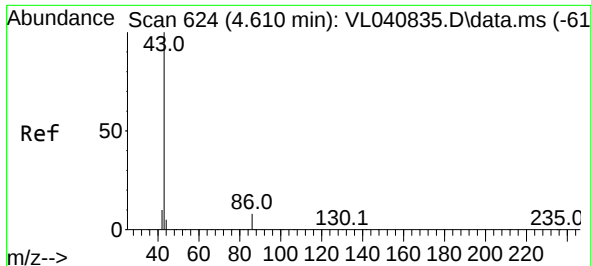
84 100

49 153.9 131.0 196.4

51 51.9 36.9 55.3

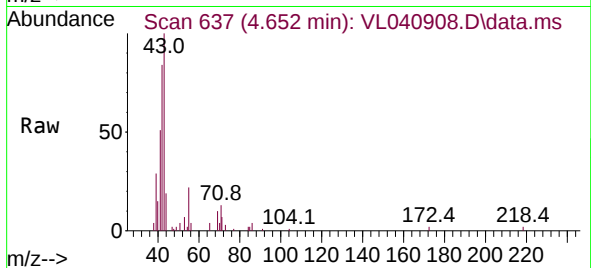
86 62.9 51.2 76.8



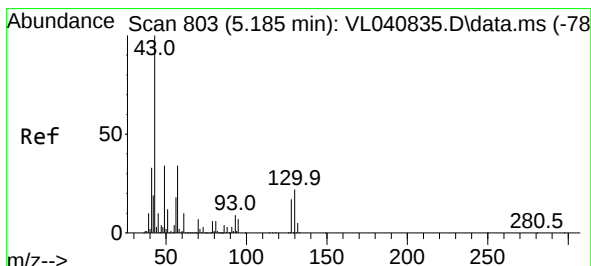
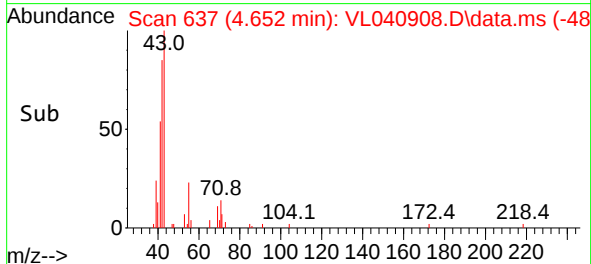
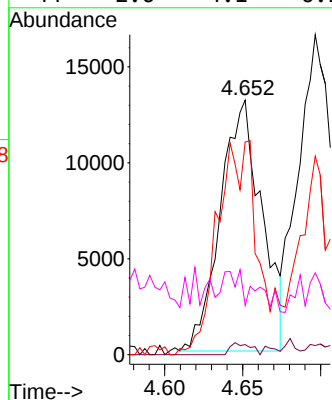


#23
 Vinyl Acetate
 Concen: 0.149 ppbv
 RT: 4.652 min Scan# 61
 Delta R.T. -0.013 min
 Lab File: VL040908.D
 Acq: 27 Nov 2023 15:11

Instrument :
 MSVOA_L
 ClientSampleId :

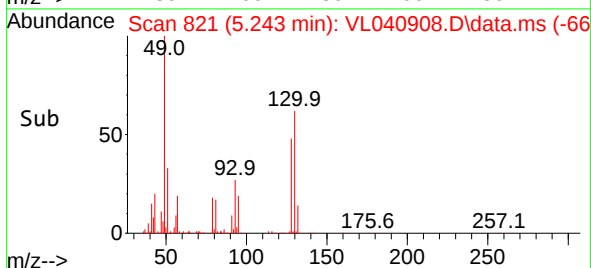
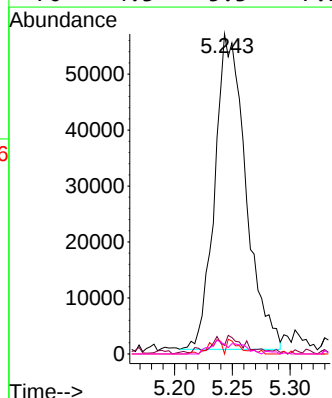
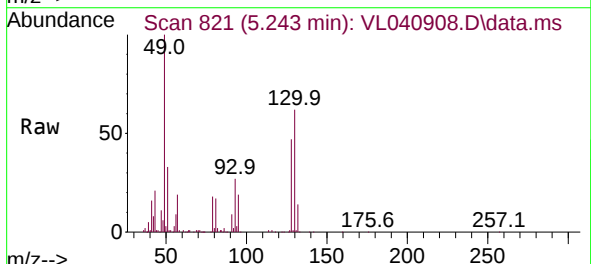


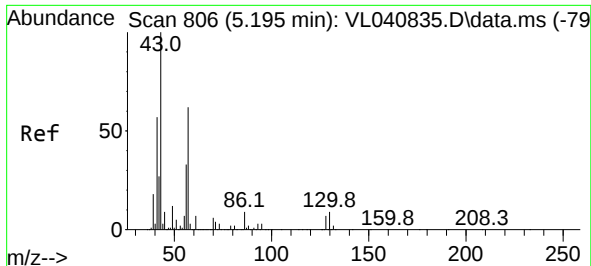
Tgt Ion:	43	Resp:	24175
Ion	Ratio	Lower	Upper
43	100		
86	4.0	5.5	8.3#
42	82.3	8.2	12.2#
44	2.6	4.1	6.1#



#25
 Ethyl Acetate
 Concen: 0.404 ppbv
 RT: 5.243 min Scan# 821
 Delta R.T. 0.006 min
 Lab File: VL040908.D
 Acq: 27 Nov 2023 15:11

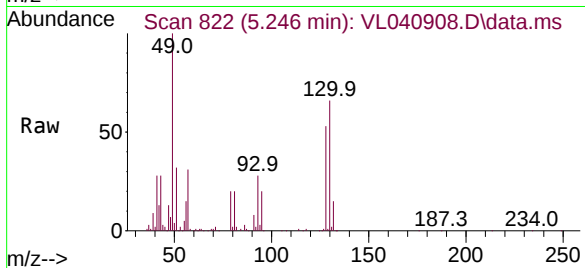
Tgt Ion:	43	Resp:	105394
Ion	Ratio	Lower	Upper
43	100		
45	7.6	8.1	12.1#
61	3.9	7.8	11.6#
70	4.3	5.3	7.9#



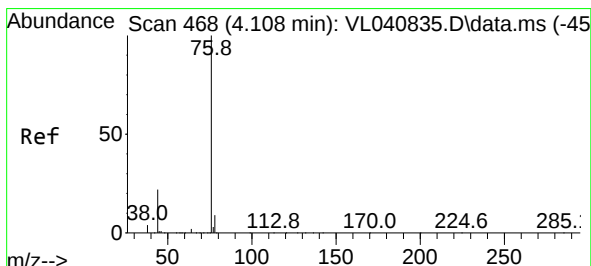
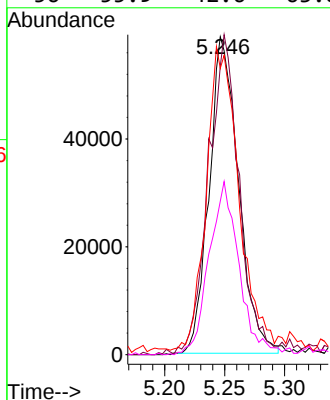
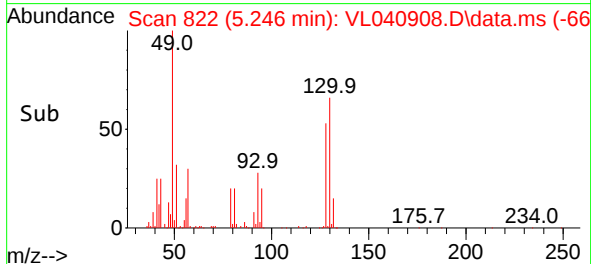


#26
Hexane
Concen: 0.868 ppbv
RT: 5.246 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL040908.D
Acq: 27 Nov 2023 15:11

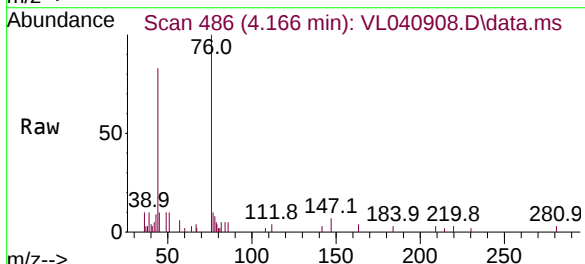
Instrument :
MSVOA_L
ClientSampleId :



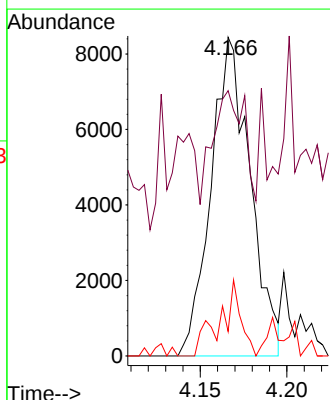
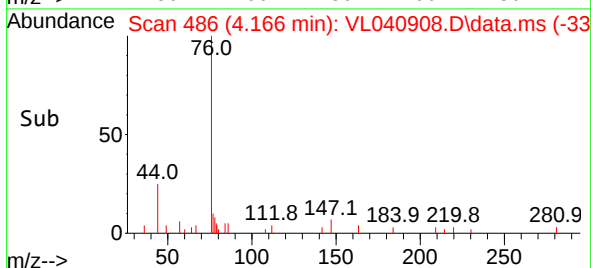
Tgt Ion: 57 Resp: 100209
Ion Ratio Lower Upper
57 100
41 108.1 75.4 113.0
43 106.7 185.9 278.9#
56 55.9 42.6 63.8

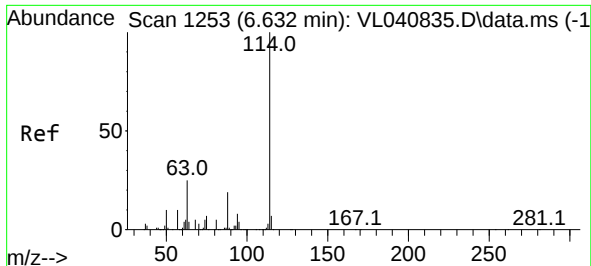


#27
Carbon Disulfide
Concen: 0.091 ppbv
RT: 4.166 min Scan# 486
Delta R.T. -0.000 min
Lab File: VL040908.D
Acq: 27 Nov 2023 15:11



Tgt Ion: 76 Resp: 13263
Ion Ratio Lower Upper
76 100
44 69.9 16.7 25.1#
78 20.0 7.6 11.4#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.680 min Scan# 11

Delta R.T. -0.003 min

Lab File: VL040908.D

Acq: 27 Nov 2023 15:11

Instrument :

MSVOA_L

ClientSampleId :

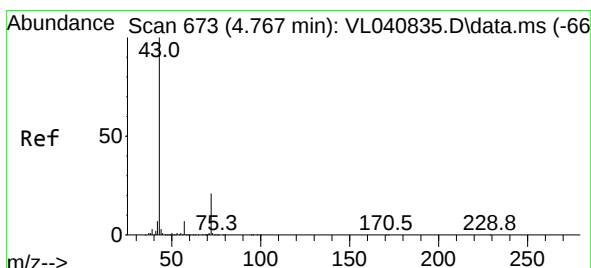
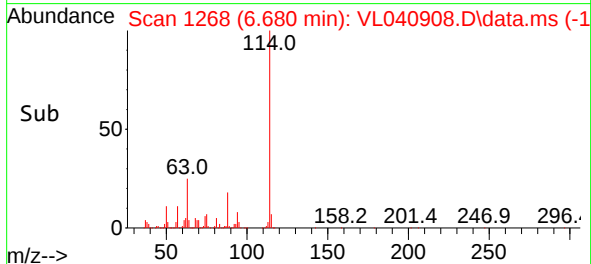
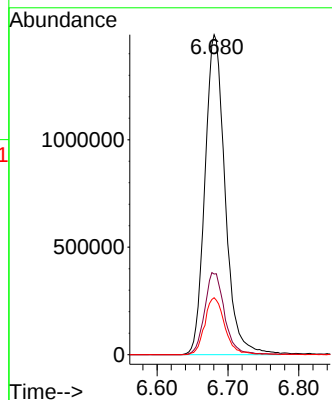
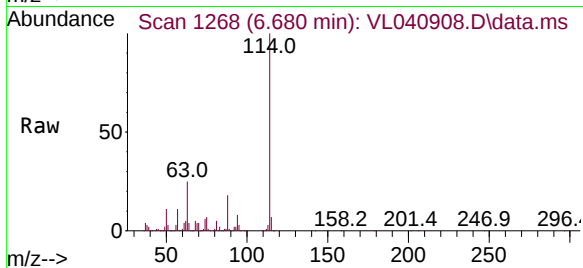
Tgt Ion:114 Resp: 2941173

Ion Ratio Lower Upper

114 100

63 25.6 20.9 31.3

88 17.8 14.3 21.5



#34

2-Butanone

Concen: 4.084 ppbv

RT: 4.828 min Scan# 692

Delta R.T. 0.006 min

Lab File: VL040908.D

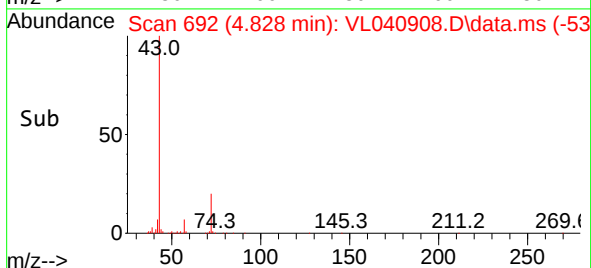
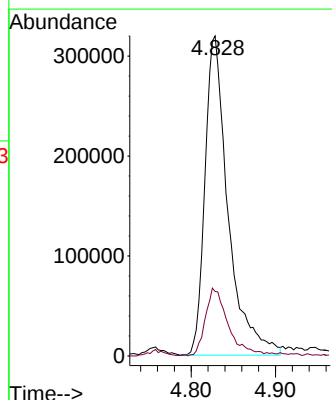
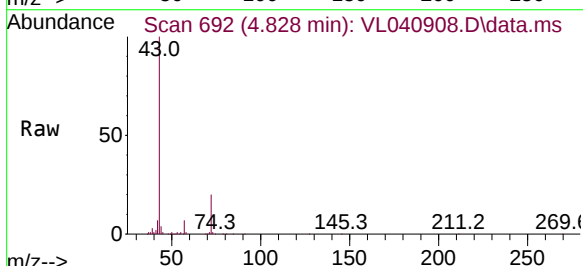
Acq: 27 Nov 2023 15:11

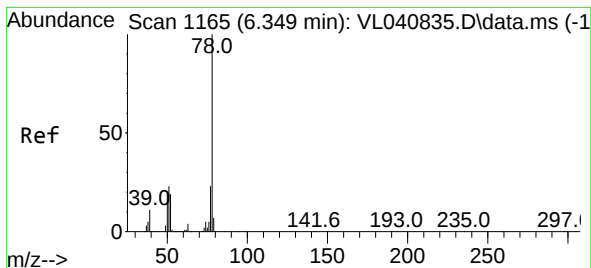
Tgt Ion: 43 Resp: 611948

Ion Ratio Lower Upper

43 100

72 22.4 17.2 25.8





#36

Benzene

Concen: 0.080 ppbv

RT: 6.397 min Scan# 1165

Delta R.T. -0.003 min

Lab File: VL040908.D

Acq: 27 Nov 2023 15:11

Instrument :

MSVOA_L

ClientSampleId :

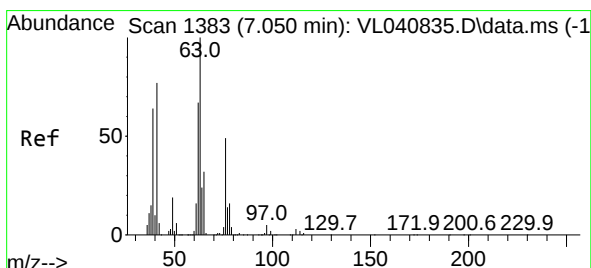
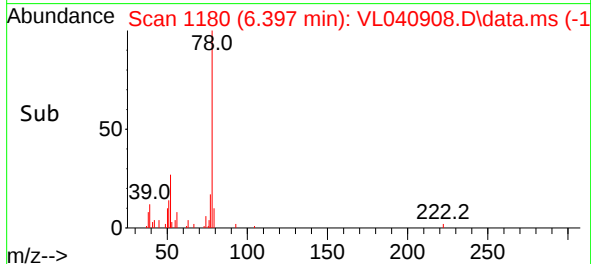
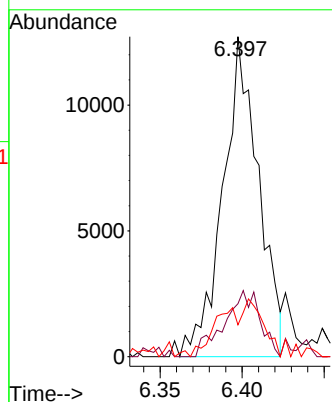
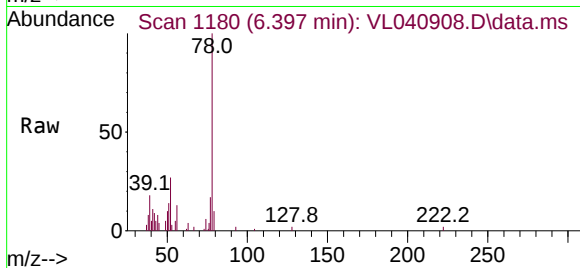
Tgt Ion: 78 Resp: 19182

Ion Ratio Lower Upper

78 100

77 16.6 18.4 27.6#

50 9.9 16.2 24.2#



#39

1,2-Dichloropropane

Concen: 7.844 ppbv

RT: 6.677 min Scan# 1267

Delta R.T. -0.421 min

Lab File: VL040908.D

Acq: 27 Nov 2023 15:11

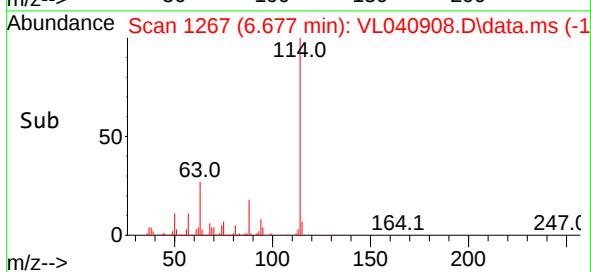
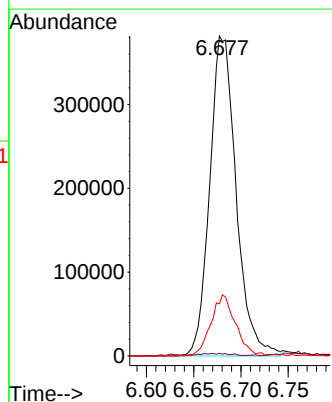
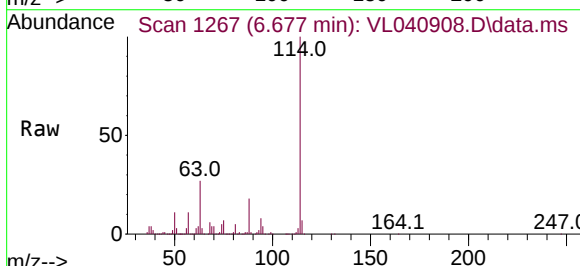
Tgt Ion: 63 Resp: 742432

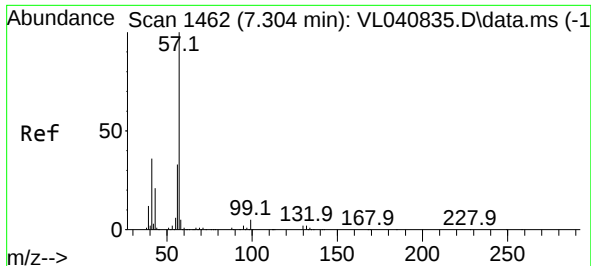
Ion Ratio Lower Upper

63 100

41 0.6 61.5 92.3#

62 16.1 53.9 80.9#





#44

2,2,4-Trimethylpentane

Concen: 0.476 ppbv

RT: 7.352 min Scan# 1462

Delta R.T. -0.000 min

Lab File: VL040908.D

Acq: 27 Nov 2023 15:11

Instrument :

MSVOA_L

ClientSampleId :

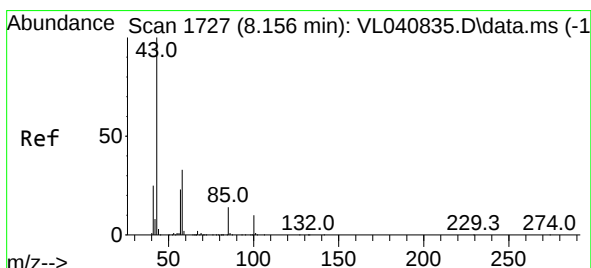
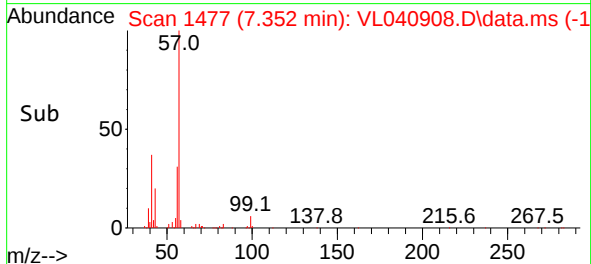
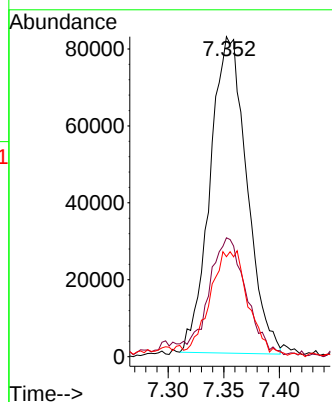
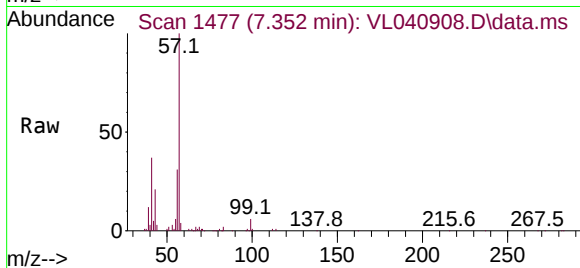
Tgt Ion: 57 Resp: 188581

Ion Ratio Lower Upper

57 100

41 42.6 29.0 43.6

56 38.6 25.2 37.8#



#50

4-Methyl-2-Pentanone

Concen: 0.038 ppbv

RT: 8.214 min Scan# 1745

Delta R.T. 0.013 min

Lab File: VL040908.D

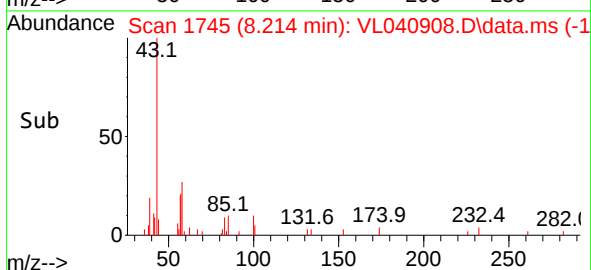
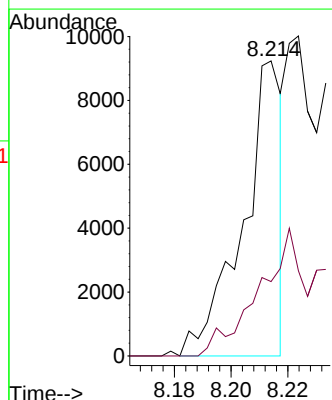
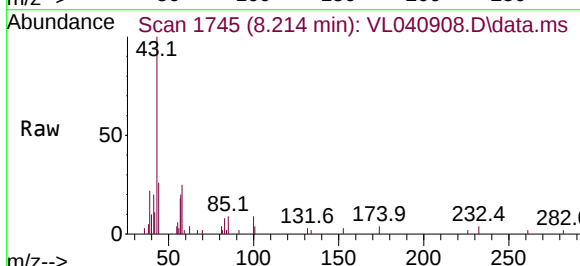
Acq: 27 Nov 2023 15:11

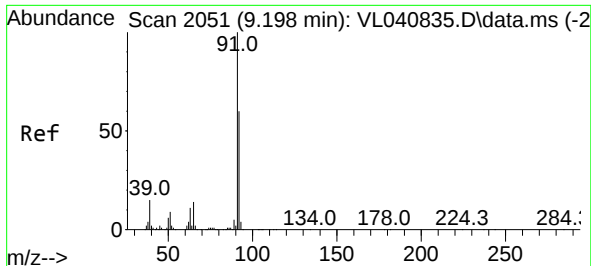
Tgt Ion: 43 Resp: 8763

Ion Ratio Lower Upper

43 100

58 0.0 27.8 41.6#

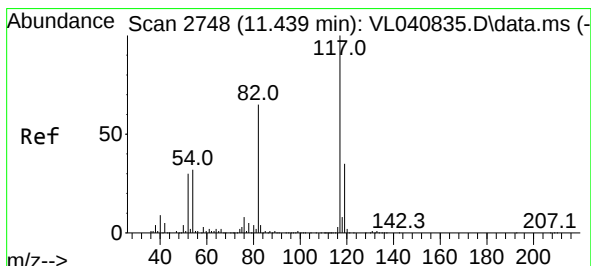
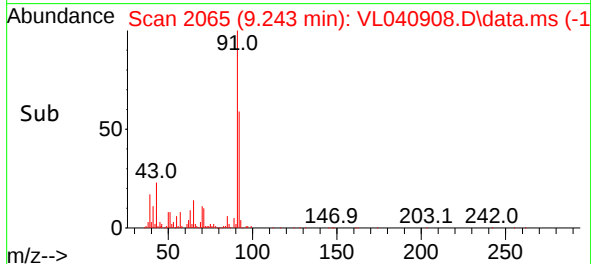
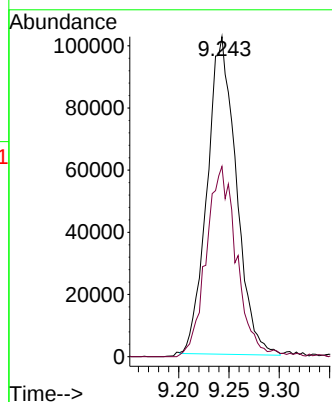
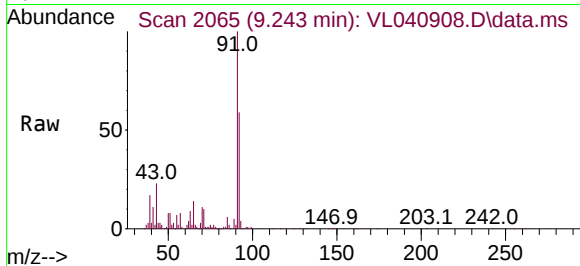




#53
Toluene
Concen: 0.782 ppbv
RT: 9.243 min Scan# 2051
Delta R.T. 0.003 min
Lab File: VL040908.D
Acq: 27 Nov 2023 15:11

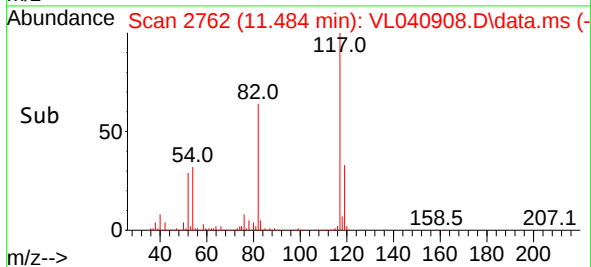
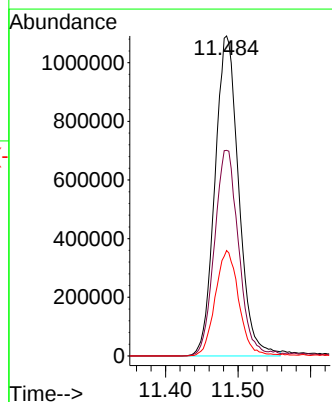
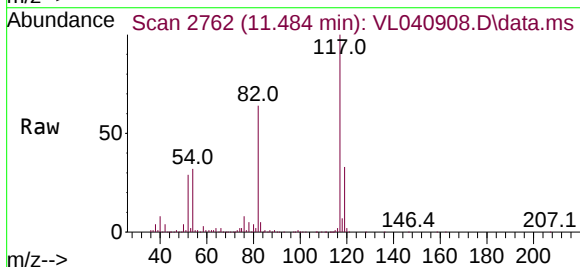
Instrument :
MSVOA_L
ClientSampleId :

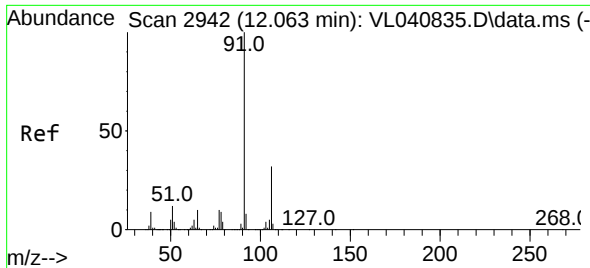
Tgt Ion: 91 Resp: 205440
Ion Ratio Lower Upper
91 100
92 63.2 49.4 74.2



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.484 min Scan# 2762
Delta R.T. -0.000 min
Lab File: VL040908.D
Acq: 27 Nov 2023 15:11

Tgt Ion: 117 Resp: 2490722
Ion Ratio Lower Upper
117 100
82 67.0 50.6 75.8
119 33.2 23.3 34.9

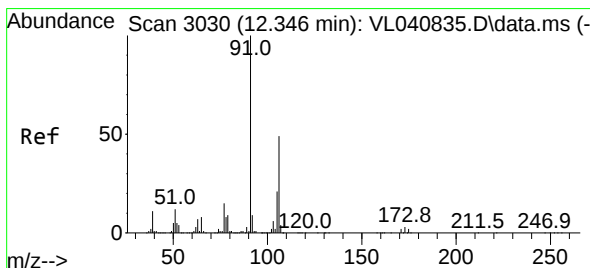
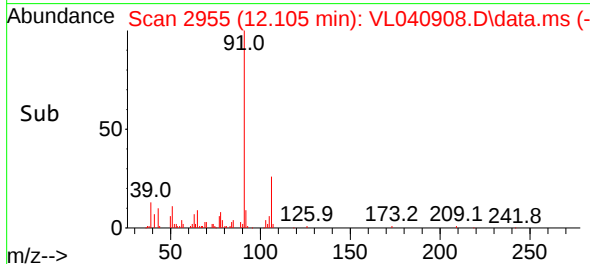
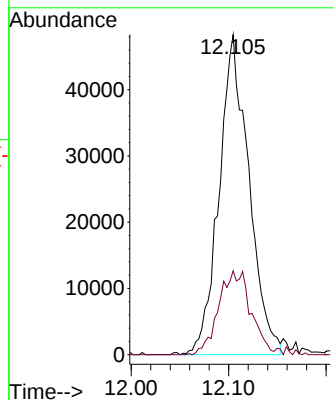
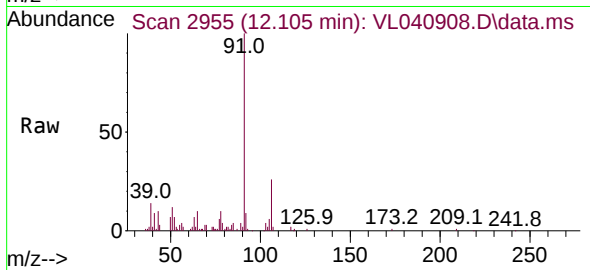




#58
Ethyl Benzene
Concen: 0.315 ppbv
RT: 12.105 min Scan# 2947
Delta R.T. -0.000 min
Lab File: VL040908.D
Acq: 27 Nov 2023 15:11

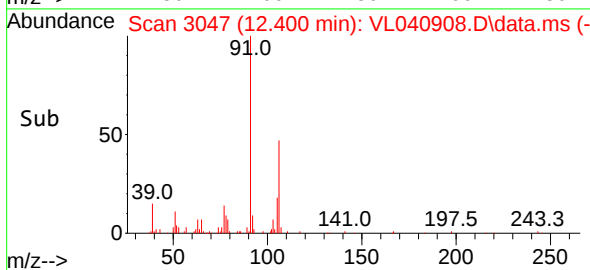
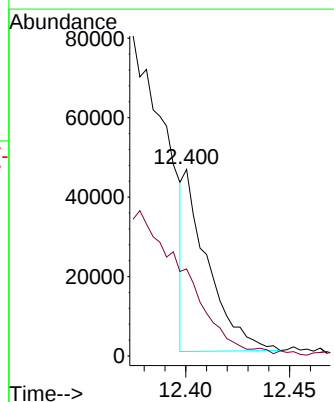
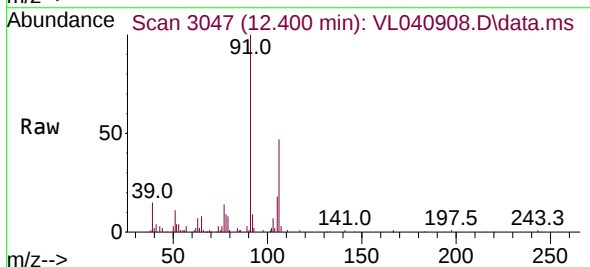
Instrument :
MSVOA_L
ClientSampleId :

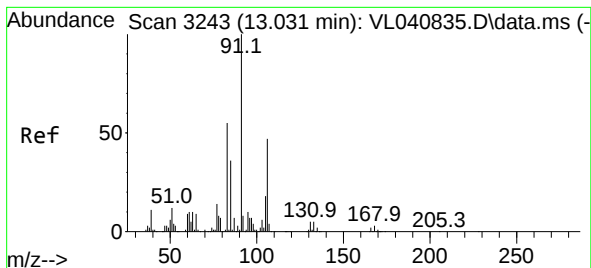
Tgt Ion: 91 Resp: 102454
Ion Ratio Lower Upper
91 100
106 26.2 25.2 37.8



#59
m/p-Xylene
Concen: 0.134 ppbv
RT: 12.400 min Scan# 3047
Delta R.T. 0.016 min
Lab File: VL040908.D
Acq: 27 Nov 2023 15:11

Tgt Ion: 91 Resp: 37178
Ion Ratio Lower Upper
91 100
106 0.0 35.4 53.0#

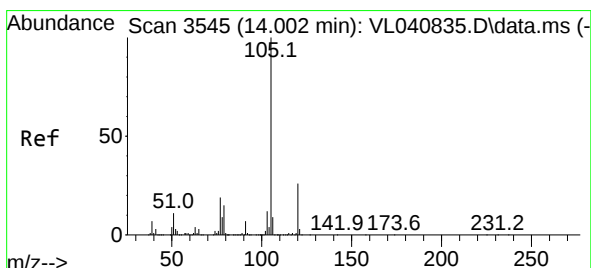
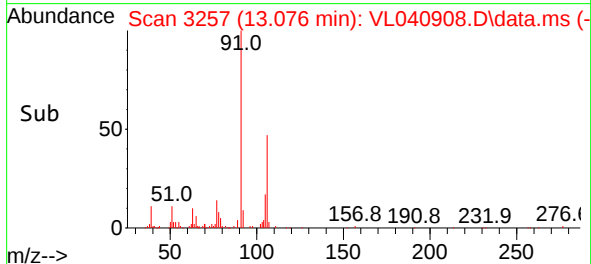
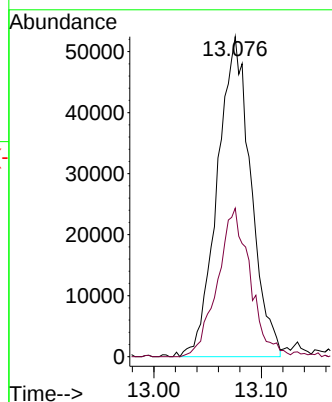
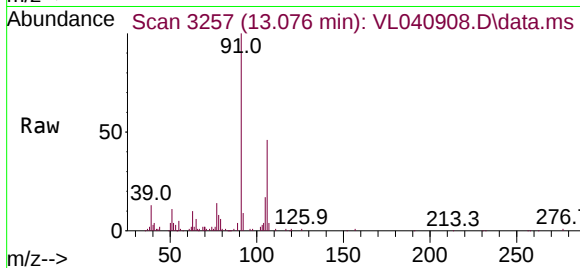




#60
o-Xylene
Concen: 0.431 ppbv
RT: 13.076 min Scan# 31
Delta R.T. -0.000 min
Lab File: VL040908.D
Acq: 27 Nov 2023 15:11

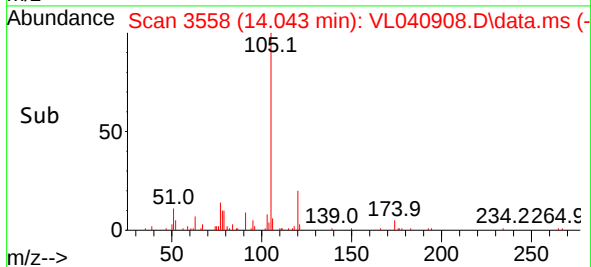
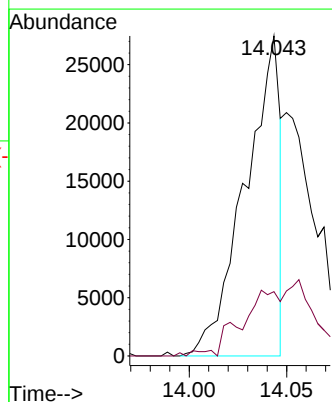
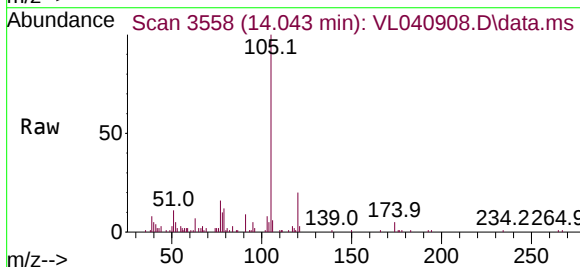
Instrument :
MSVOA_L
ClientSampleId :

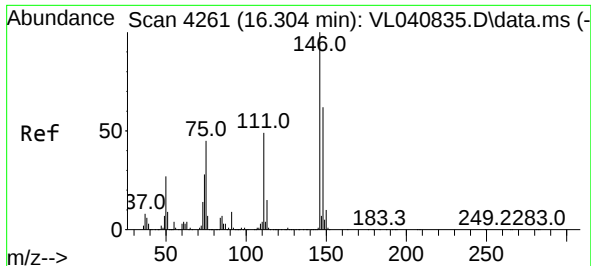
Tgt Ion: 91 Resp: 113463
Ion Ratio Lower Upper
91 100
106 46.1 22.9 68.5



#62
Isopropylbenzene
Concen: 0.088 ppbv
RT: 14.043 min Scan# 3558
Delta R.T. -0.000 min
Lab File: VL040908.D
Acq: 27 Nov 2023 15:11

Tgt Ion: 105 Resp: 34160
Ion Ratio Lower Upper
105 100
120 0.0 20.7 31.1#

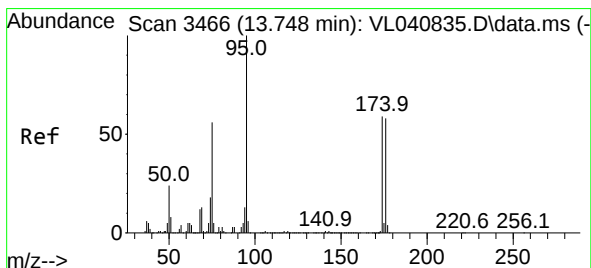
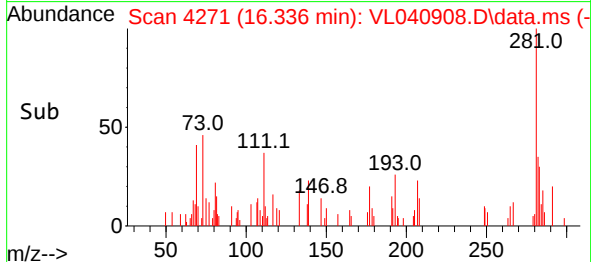
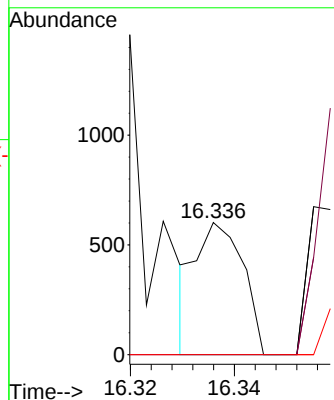
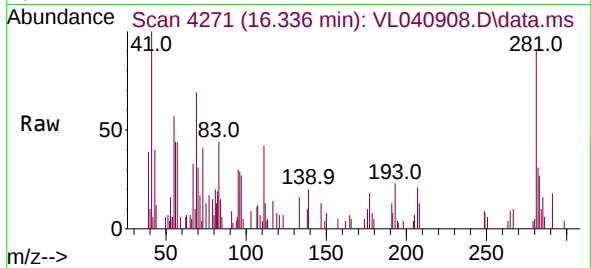




#66
Benzyl Chloride
Concen: 0.031 ppbv
RT: 16.336 min Scan# 41
Delta R.T. -0.006 min
Lab File: VL040908.D
Acq: 27 Nov 2023 15:11

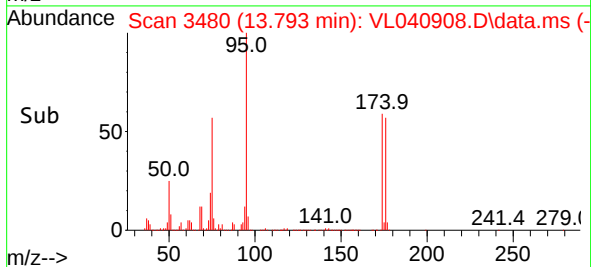
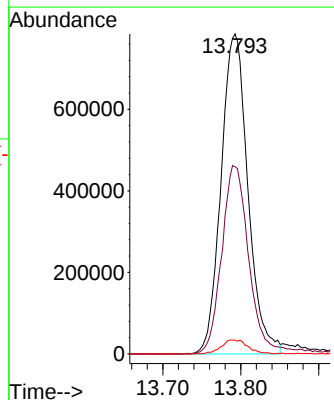
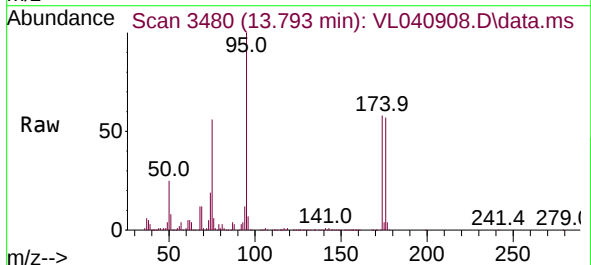
Instrument :
MSVOA_L
ClientSampleId :

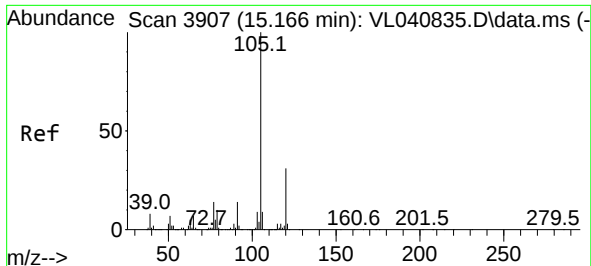
Tgt Ion: 91 Resp: 376
Ion Ratio Lower Upper
91 100
126 0.0 12.8 19.2#
128 0.0 0.0 0.0



#68
1-Bromo-4-Fluorobenzene
Concen: 9.649 ppbv
RT: 13.793 min Scan# 3480
Delta R.T. -0.000 min
Lab File: VL040908.D
Acq: 27 Nov 2023 15:11

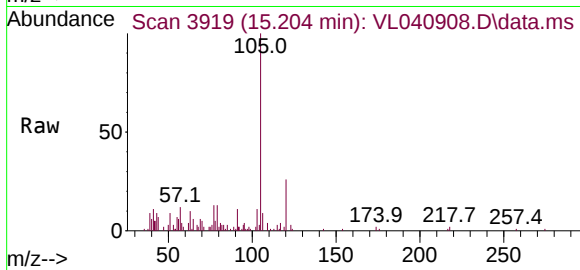
Tgt Ion: 95 Resp: 1881677
Ion Ratio Lower Upper
95 100
174 61.2 47.5 71.3
175 4.5 3.6 5.4



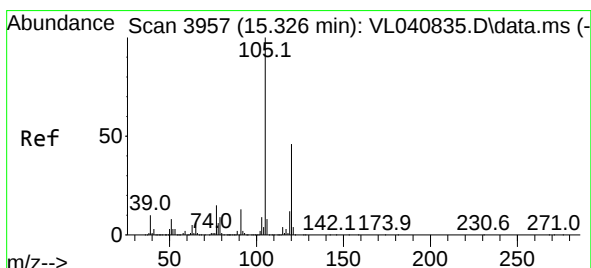
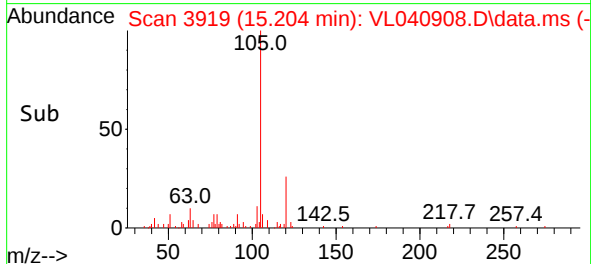
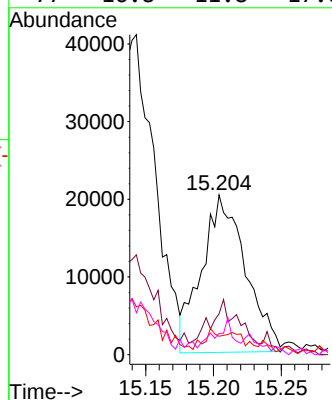


#72
4-Ethyltoluene
Concen: 0.157 ppbv
RT: 15.204 min Scan# 3919
Delta R.T. -0.000 min
Lab File: VL040908.D
Acq: 27 Nov 2023 15:11

Instrument :
MSVOA_L
ClientSampleId :

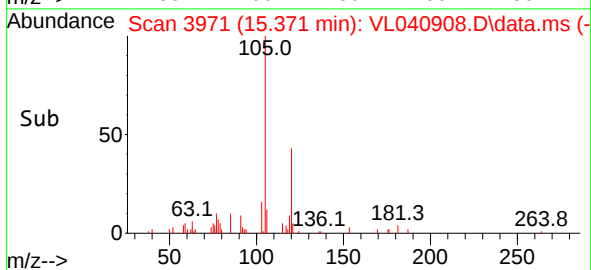
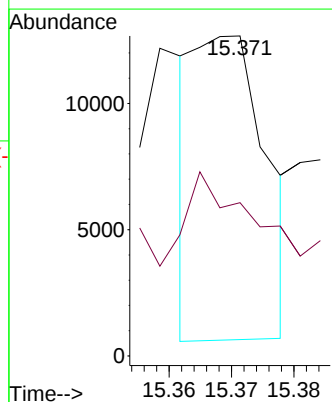
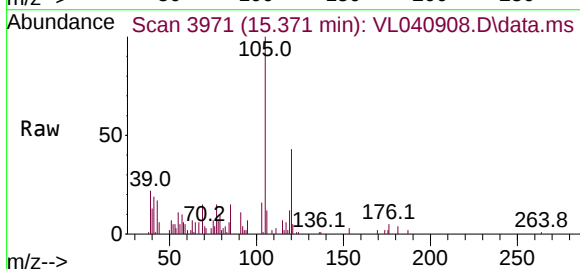


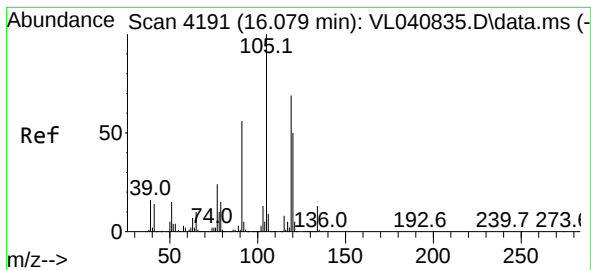
Tgt Ion:105 Resp: 45599
Ion Ratio Lower Upper
105 100
120 30.2 24.5 36.7
91 18.3 10.6 16.0#
77 16.8 11.8 17.6



#73
1,3,5-Trimethylbenzene
Concen: 0.037 ppbv
RT: 15.371 min Scan# 3971
Delta R.T. 0.006 min
Lab File: VL040908.D
Acq: 27 Nov 2023 15:11

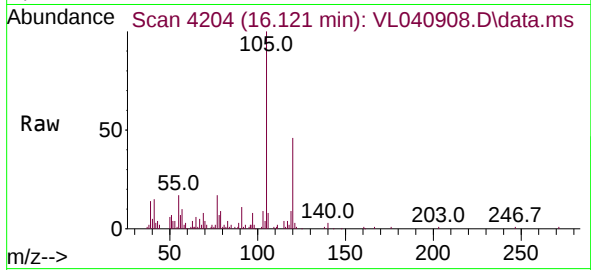
Tgt Ion:105 Resp: 9599
Ion Ratio Lower Upper
105 100
120 23.0 36.8 55.2#





#74
 1,2,4-Trimethylbenzene
 Concen: 0.281 ppbv
 RT: 16.121 min Scan# 4191
 Delta R.T. -0.000 min
 Lab File: VL040908.D
 Acq: 27 Nov 2023 15:11

Instrument :
 MSVOA_L
 ClientSampleId :



Tgt Ion:	105	Resp:	80421
Ion	Ratio	Lower	Upper
105	100		
120	45.5	40.2	60.2
91	9.6	45.7	68.5#
77	14.6	19.2	28.8#

