

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091823\
 Data File : VL040710.D
 Acq On : 18 Sep 2023 22:21
 Operator : SY/MD
 Sample : 04403-02DL 5X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Sep 19 05:22:57 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091423AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 19 05:12:43 2023
 Response via : Initial Calibration

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

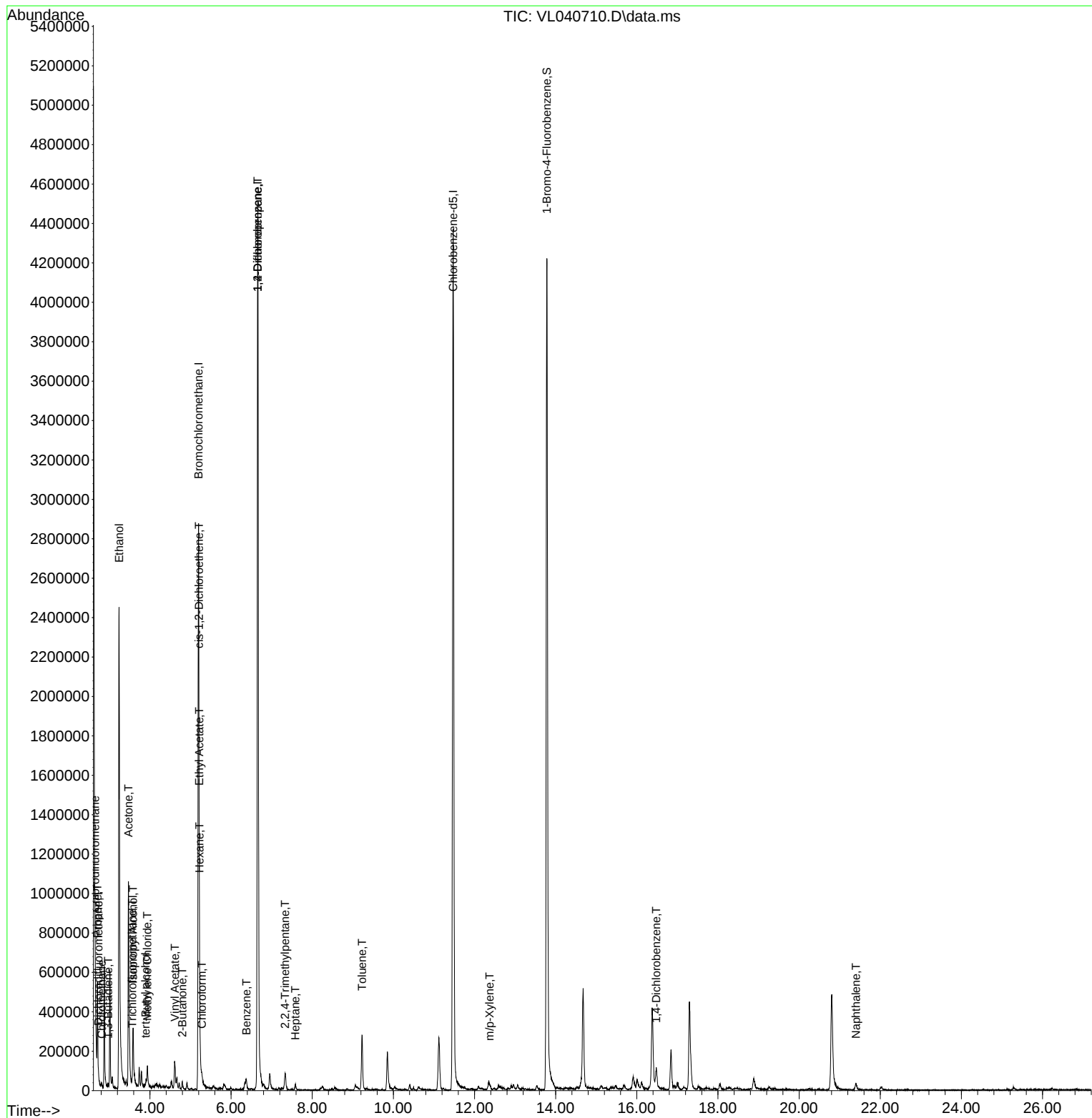
Internal Standards						
1) Bromochloromethane	5.198	49	1279269	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.658	114	3382595	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.475	117	2878219	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.783	95	2150185	9.669	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.700%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.732	85	24074	0.085	ppbv	96
3) Chlorodifluoromethane	2.652	51	155842	0.748	ppbv #	74
4) Chloromethane	2.813	50	10397	0.130	ppbv #	84
9) Propene	2.706	41	89243	1.486	ppbv #	68
10) Heptane	7.584	43	4404	0.033	ppbv #	1
11) Trichlorofluoromethane	3.565	101	8736	0.035	ppbv	89
13) Ethanol	3.240	45	2545808	143.259	ppbv	96
15) Acetone	3.472	43	1010257	5.987	ppbv	98
16) 1,3-Butadiene	2.970	39	3125	0.042	ppbv	96
17) tert-Butyl alcohol	3.893	59	6871	0.040	ppbv #	29
19) Isopropyl Alcohol	3.584	45	308766	3.037	ppbv #	97
20) Methylene Chloride	3.938	84	33599	0.370	ppbv #	85
23) Vinyl Acetate	4.620	43	47648	0.273	ppbv #	6
25) Ethyl Acetate	5.214	43	162282	0.596	ppbv #	96
26) Hexane	5.221	57	107555	0.836	ppbv #	72
29) Chloroform	5.279	83	7506	0.034	ppbv	97
31) cis-1,2-Dichloroethene	5.208	61	8067	0.068	ppbv #	28
34) 2-Butanone	4.796	43	39705	0.233	ppbv #	88
36) Benzene	6.378	78	15772	0.063	ppbv #	90
39) 1,2-Dichloropropane	6.658	63	837968	8.691	ppbv #	23
44) 2,2,4-Trimethylpentane	7.333	57	66599	0.167	ppbv #	87
53) Toluene	9.230	91	196580	0.743	ppbv	99
59) m/p-Xylene	12.375	91	9341	0.030	ppbv #	32
76) 1,4-Dichlorobenzene	16.481	146	6384	0.031	ppbv #	1
79) Naphthalene	21.403	128	30403	0.135	ppbv #	89

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

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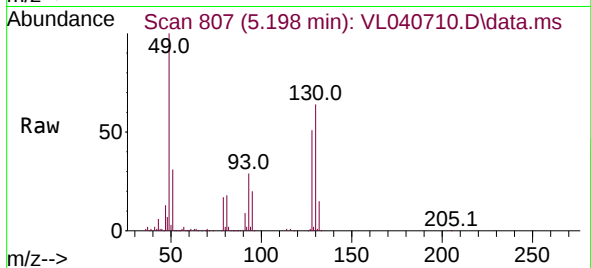
Quant Time: Sep 19 05:22:57 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091423AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
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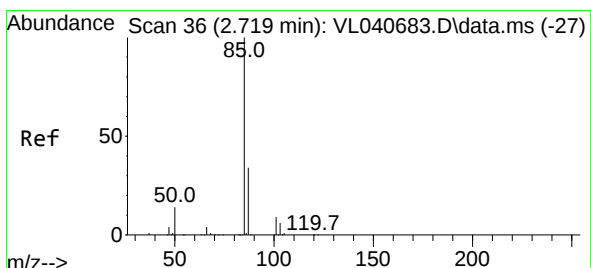
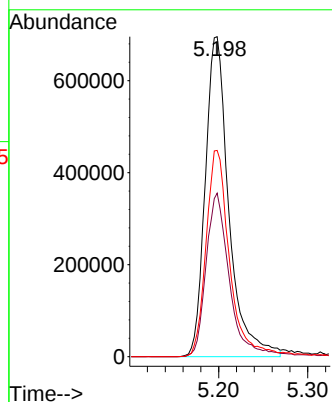
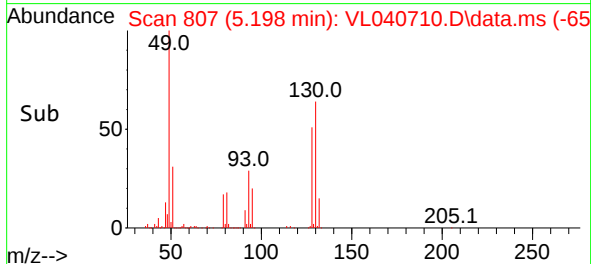


#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.198 min Scan# 80
 Delta R.T. 0.000 min
 Lab File: VL040710.D
 Acq: 18 Sep 2023 22:21

Instrument :
 MSVOA_L
 ClientSampleId :

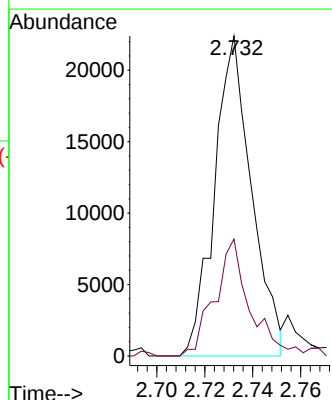
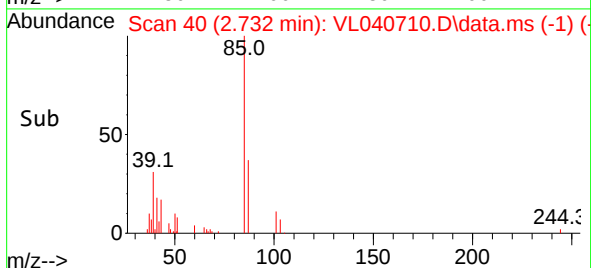
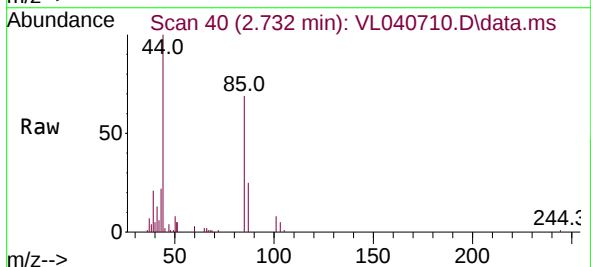


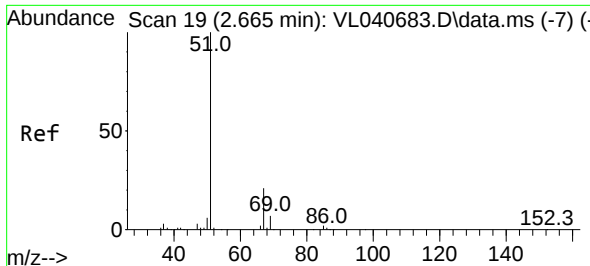
Tgt Ion: 49 Resp: 1279269
 Ion Ratio Lower Upper
 49 100
 128 51.6 25.4 76.0
 130 66.2 32.3 96.8



#2
 Dichlorodifluoromethane
 Concen: 0.085 ppbv
 RT: 2.732 min Scan# 40
 Delta R.T. 0.000 min
 Lab File: VL040710.D
 Acq: 18 Sep 2023 22:21

Tgt Ion: 85 Resp: 24074
 Ion Ratio Lower Upper
 85 100
 87 36.5 27.2 40.8

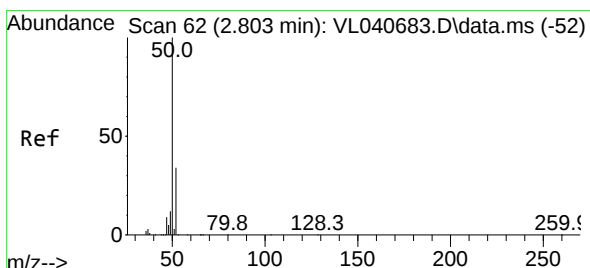
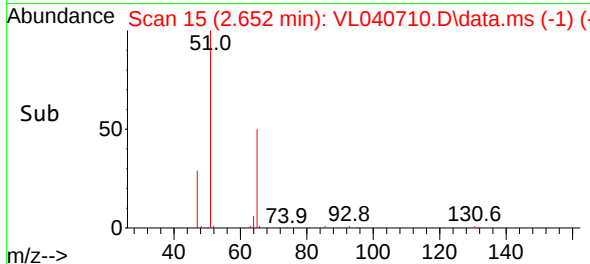
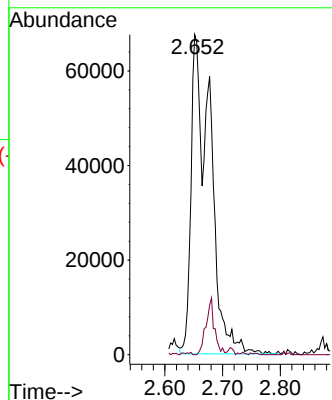
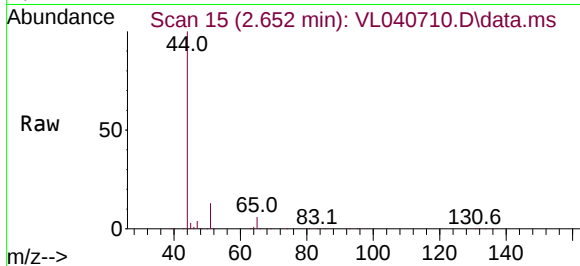




#3
Chlorodifluoromethane
Concen: 0.748 ppbv
RT: 2.652 min Scan# 11
Delta R.T. -0.026 min
Lab File: VL040710.D
Acq: 18 Sep 2023 22:21

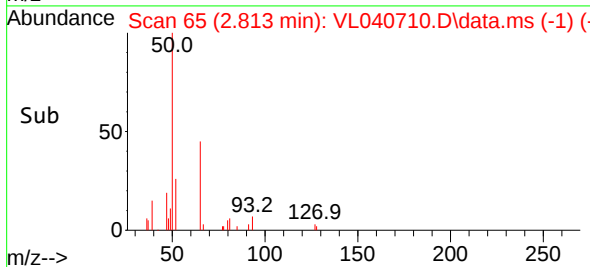
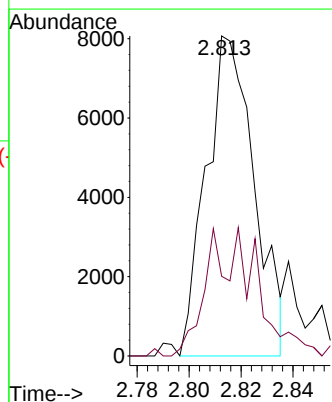
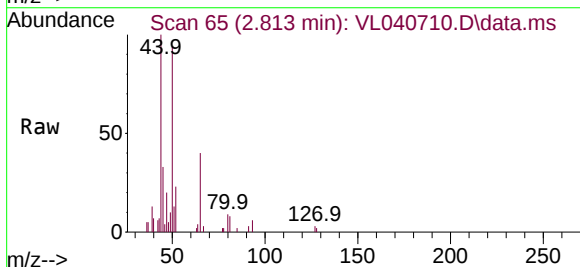
Instrument :
MSVOA_L
ClientSampleId :

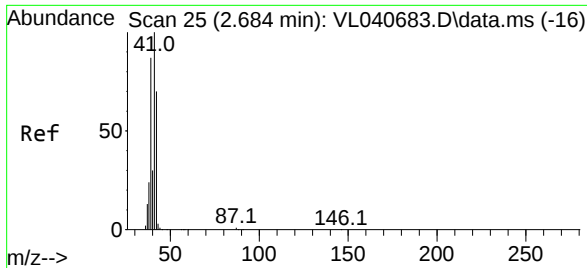
Tgt Ion: 51 Resp: 155842
Ion Ratio Lower Upper
51 100
67 9.0 16.7 25.1#



#4
Chloromethane
Concen: 0.130 ppbv
RT: 2.813 min Scan# 65
Delta R.T. -0.003 min
Lab File: VL040710.D
Acq: 18 Sep 2023 22:21

Tgt Ion: 50 Resp: 10397
Ion Ratio Lower Upper
50 100
52 24.9 27.1 40.7#





#9

Propene

Concen: 1.486 ppbv

RT: 2.706 min Scan# 31

Delta R.T. 0.010 min

Lab File: VL040710.D

Acq: 18 Sep 2023 22:21

Instrument :

MSVOA_L

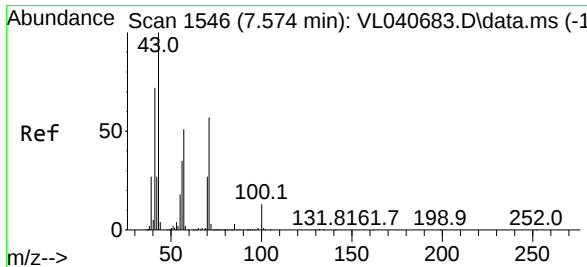
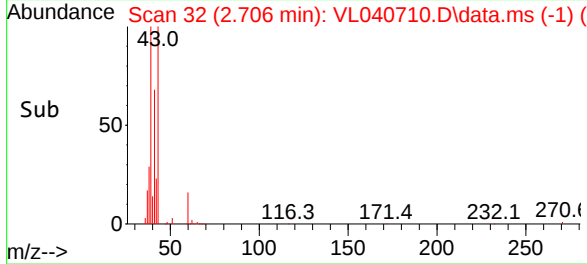
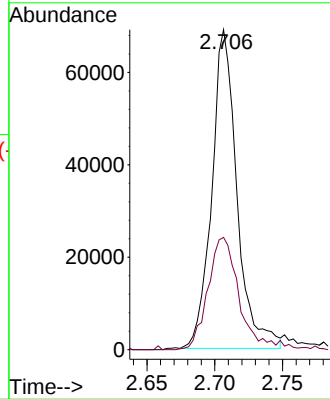
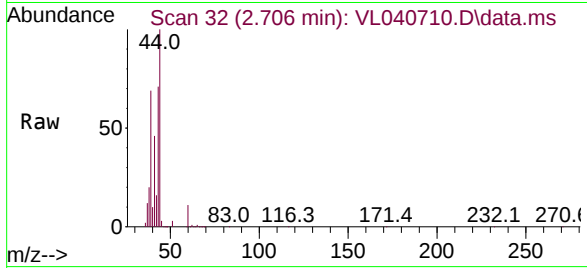
ClientSampleId :

Tgt Ion: 41 Resp: 89243

Ion Ratio Lower Upper

41 100

42 44.3 56.7 85.1#



#10

Heptane

Concen: 0.033 ppbv

RT: 7.584 min Scan# 1549

Delta R.T. -0.003 min

Lab File: VL040710.D

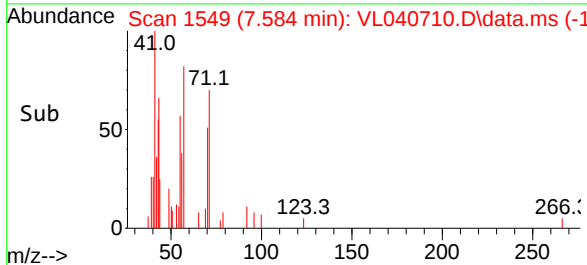
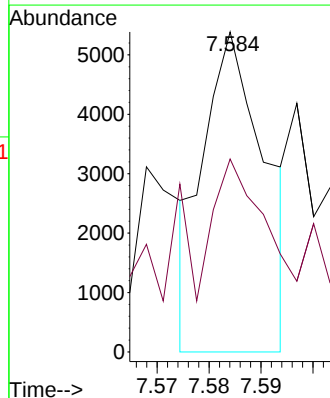
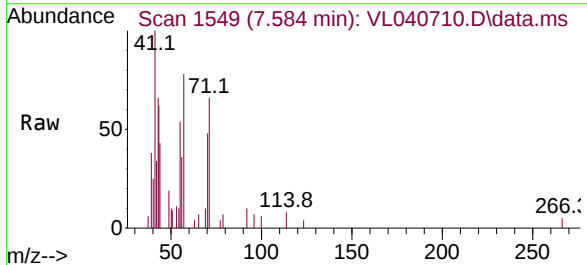
Acq: 18 Sep 2023 22:21

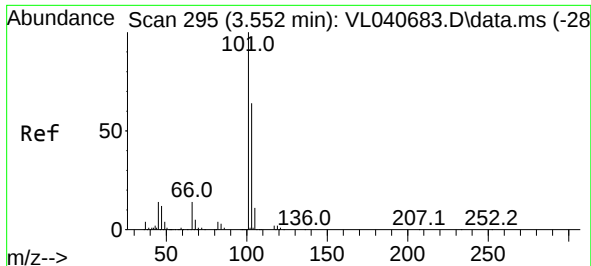
Tgt Ion: 43 Resp: 4404

Ion Ratio Lower Upper

43 100

57 128.0 41.8 62.6#

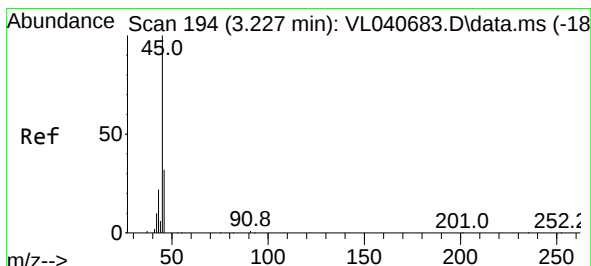
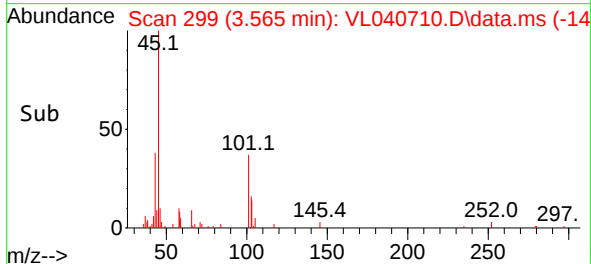
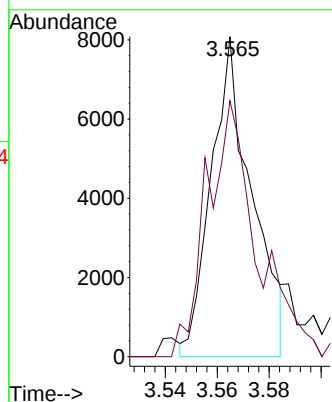
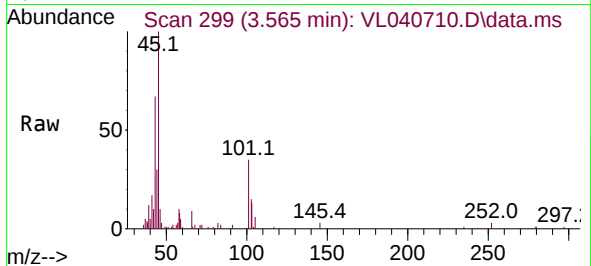




#11
Trichlorofluoromethane
Concen: 0.035 ppbv
RT: 3.565 min Scan# 295
Delta R.T. -0.003 min
Lab File: VL040710.D
Acq: 18 Sep 2023 22:21

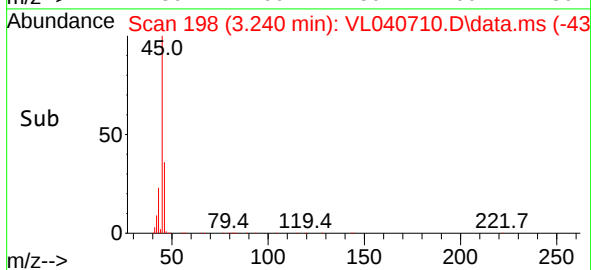
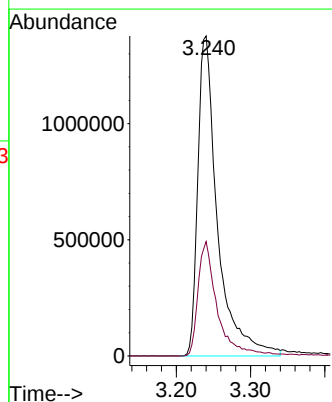
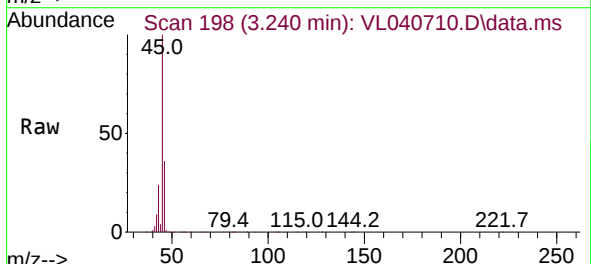
Instrument :
MSVOA_L
ClientSampleId :

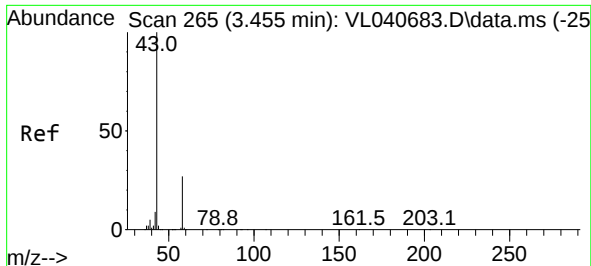
Tgt Ion:101 Resp: 8736
Ion Ratio Lower Upper
101 100
103 72.7 51.3 76.9



#13
Ethanol
Concen: 143.259 ppbv
RT: 3.240 min Scan# 198
Delta R.T. -0.003 min
Lab File: VL040710.D
Acq: 18 Sep 2023 22:21

Tgt Ion: 45 Resp: 2545808
Ion Ratio Lower Upper
45 100
46 35.9 15.2 61.0





#15

Acetone

Concen: 5.987 ppbv

RT: 3.472 min Scan# 21

Delta R.T. 0.000 min

Lab File: VL040710.D

Acq: 18 Sep 2023 22:21

Instrument :

MSVOA_L

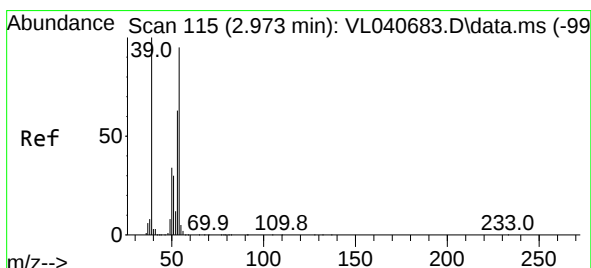
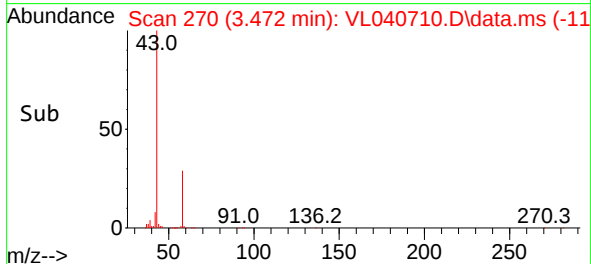
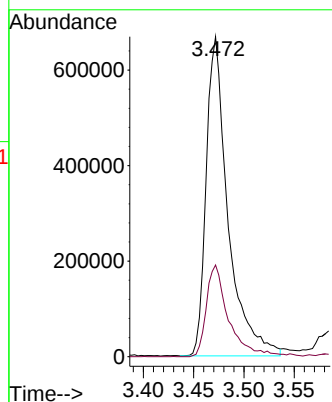
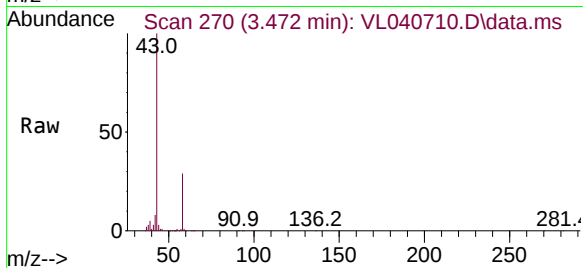
ClientSampleId :

Tgt Ion: 43 Resp: 1010257

Ion Ratio Lower Upper

43 100

58 29.4 22.6 34.0



#16

1,3-Butadiene

Concen: 0.042 ppbv

RT: 2.970 min Scan# 114

Delta R.T. -0.019 min

Lab File: VL040710.D

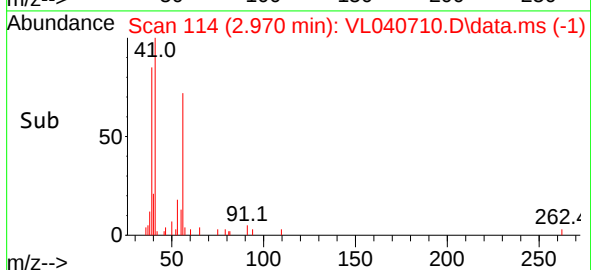
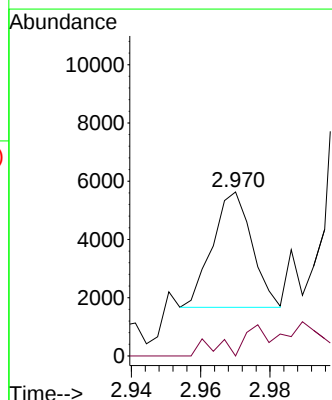
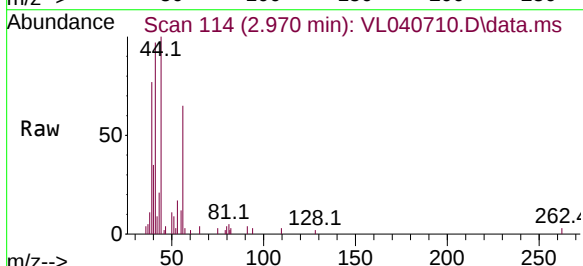
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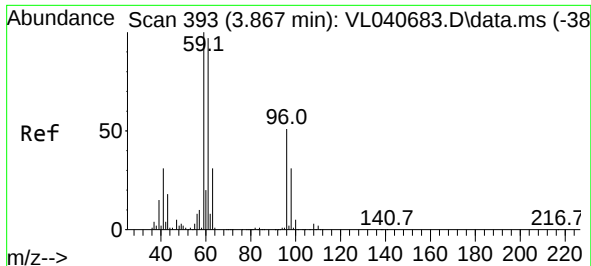
Tgt Ion: 39 Resp: 3125

Ion Ratio Lower Upper

39 100

54 84.9 64.8 97.2





#17

tert-Butyl alcohol

Concen: 0.040 ppbv

RT: 3.893 min Scan# 401

Delta R.T. 0.010 min

Lab File: VL040710.D

Acq: 18 Sep 2023 22:21

Instrument :

MSVOA_L

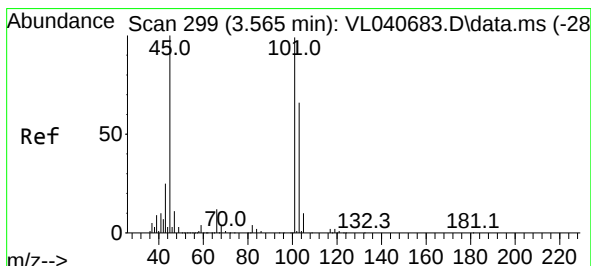
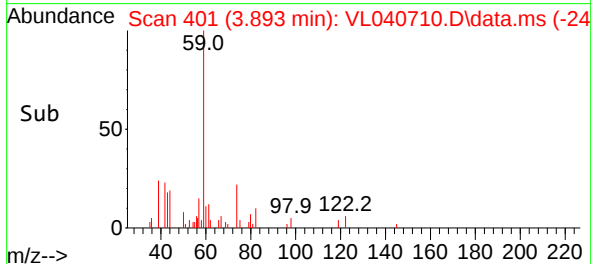
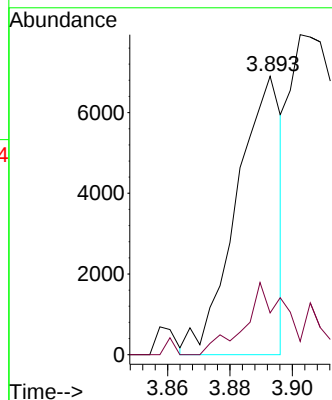
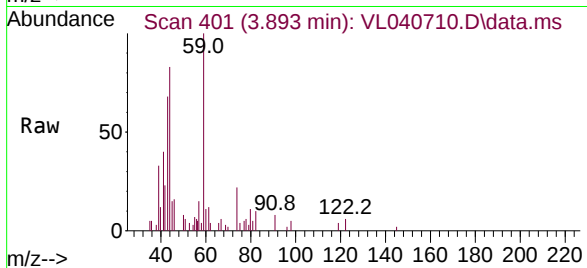
ClientSampleId :

Tgt Ion: 59 Resp: 6871

Ion Ratio Lower Upper

59 100

57 37.9 8.7 13.1#



#19

Isopropyl Alcohol

Concen: 3.037 ppbv

RT: 3.584 min Scan# 305

Delta R.T. 0.007 min

Lab File: VL040710.D

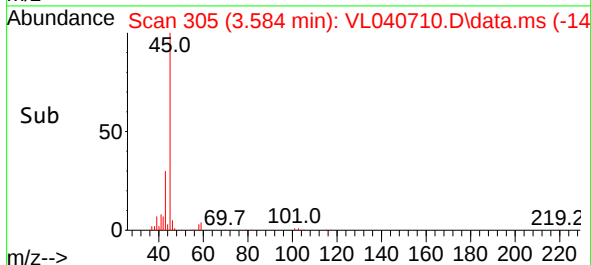
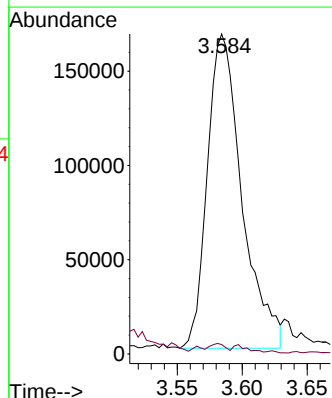
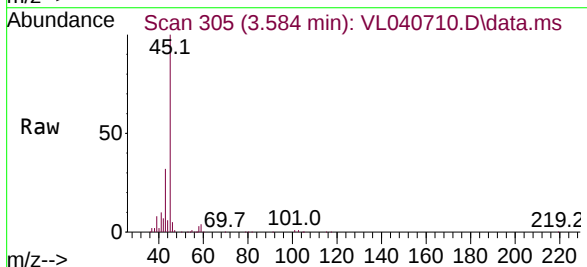
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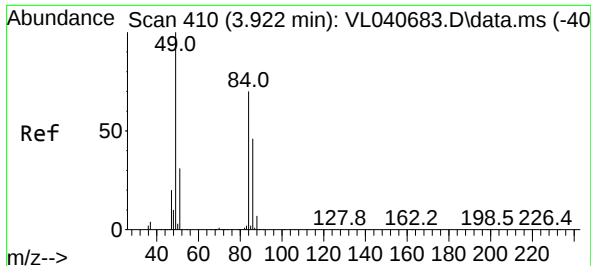
Tgt Ion: 45 Resp: 308766

Ion Ratio Lower Upper

45 100

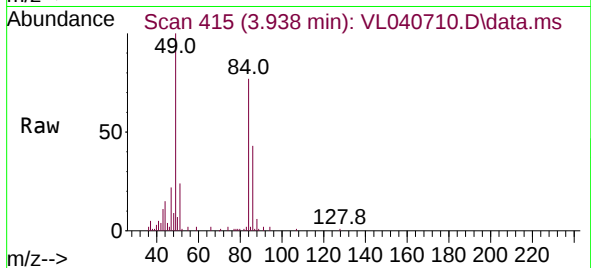
58 3.4 1.9 2.9#



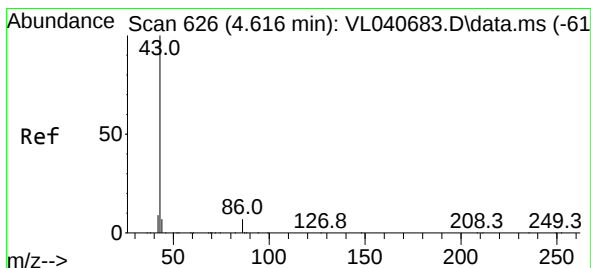
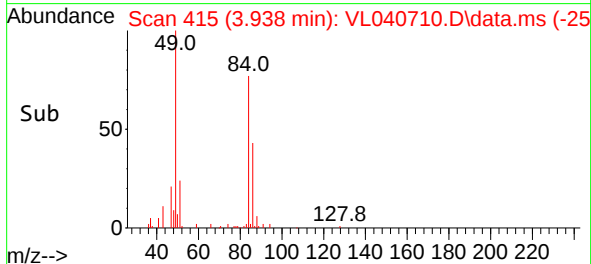
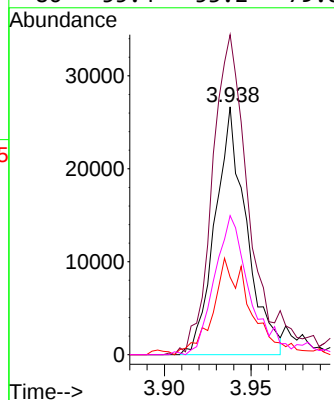


#20
Methylene Chloride
Concen: 0.370 ppbv
RT: 3.938 min Scan# 410
Delta R.T. 0.000 min
Lab File: VL040710.D
Acq: 18 Sep 2023 22:21

Instrument :
MSVOA_L
ClientSampleId :

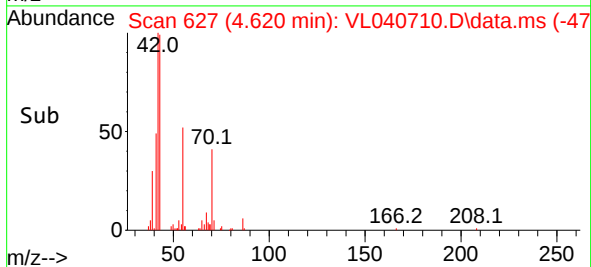
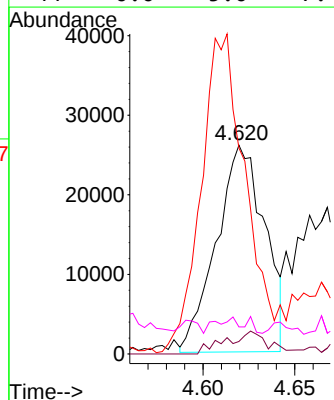
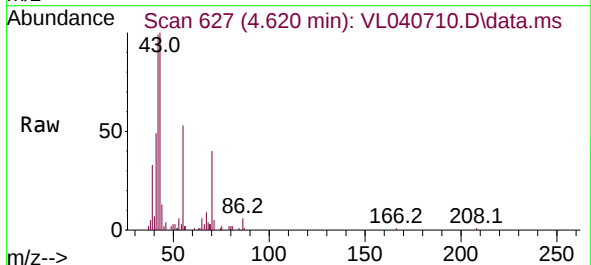


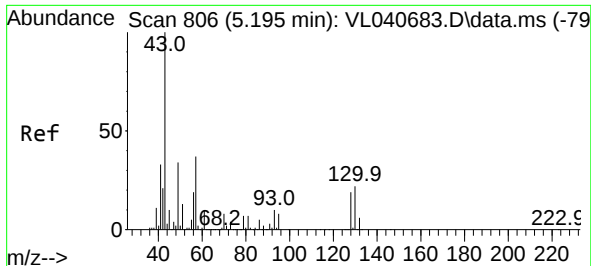
Tgt Ion: 84 Resp: 33599
Ion Ratio Lower Upper
84 100
49 126.3 114.4 171.6
51 29.2 35.5 53.3#
86 55.4 53.2 79.8



#23
Vinyl Acetate
Concen: 0.273 ppbv
RT: 4.620 min Scan# 627
Delta R.T. -0.013 min
Lab File: VL040710.D
Acq: 18 Sep 2023 22:21

Tgt Ion: 43 Resp: 47648
Ion Ratio Lower Upper
43 100
86 6.2 5.6 8.4
42 86.9 7.6 11.4#
44 0.0 5.0 7.4#





#25

Ethyl Acetate

Concen: 0.596 ppbv

RT: 5.214 min Scan# 812

Delta R.T. 0.003 min

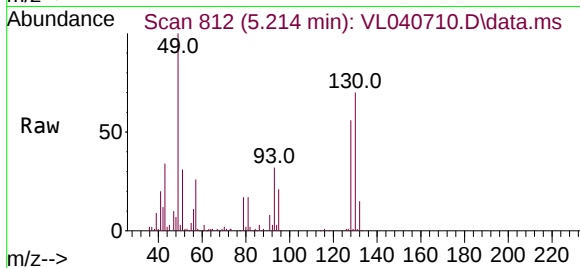
Lab File: VL040710.D

Acq: 18 Sep 2023 22:21

Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion: 43 Resp: 162282

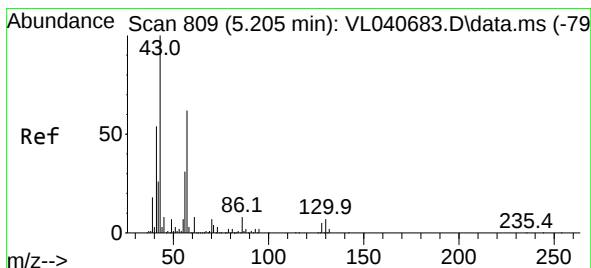
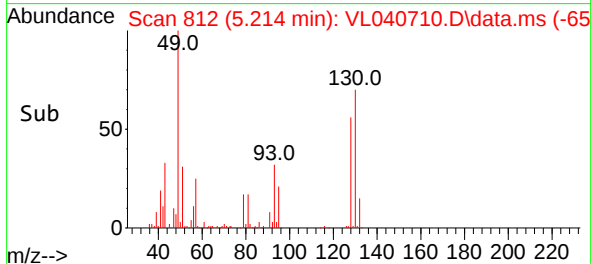
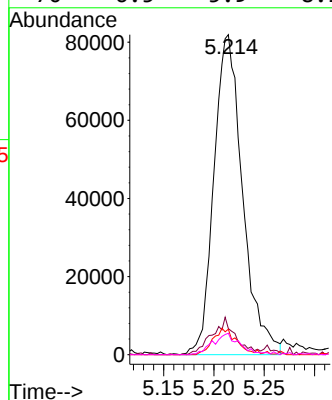
Ion Ratio Lower Upper

43 100

45 10.7 8.2 12.4

61 7.2 8.2 12.4#

70 6.5 5.9 8.9



#26

Hexane

Concen: 0.836 ppbv

RT: 5.221 min Scan# 814

Delta R.T. 0.000 min

Lab File: VL040710.D

Acq: 18 Sep 2023 22:21

Tgt Ion: 57 Resp: 107555

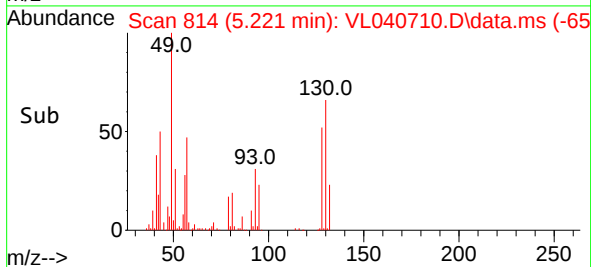
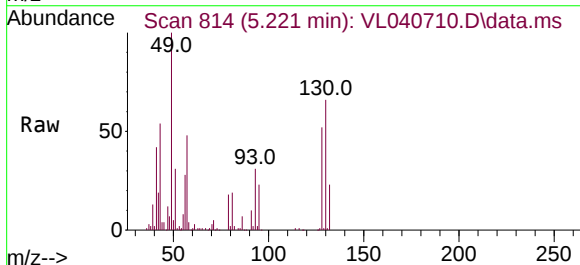
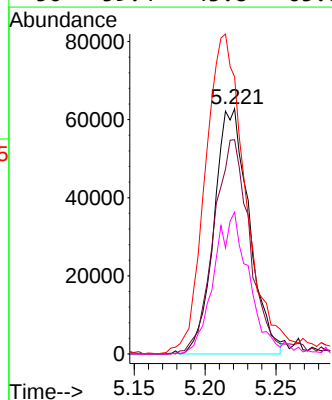
Ion Ratio Lower Upper

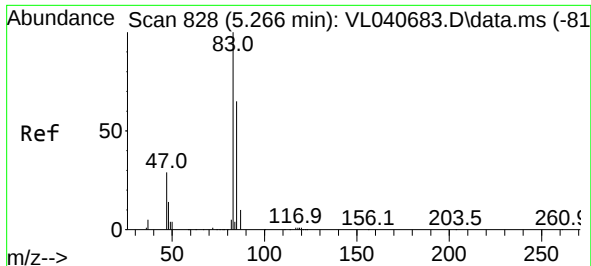
57 100

41 94.2 75.2 112.8

43 157.3 185.6 278.4#

56 59.4 43.8 65.8





#29

Chloroform

Concen: 0.034 ppbv

RT: 5.279 min Scan# 810

Delta R.T. -0.003 min

Lab File: VL040710.D

Acq: 18 Sep 2023 22:21

Instrument :

MSVOA_L

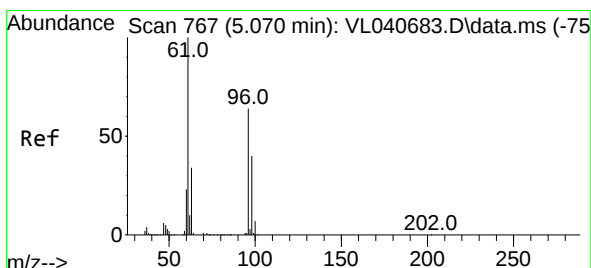
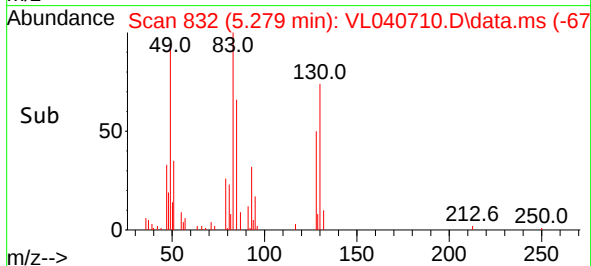
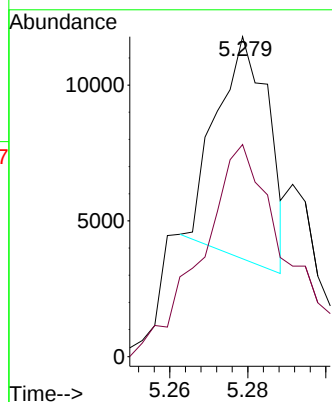
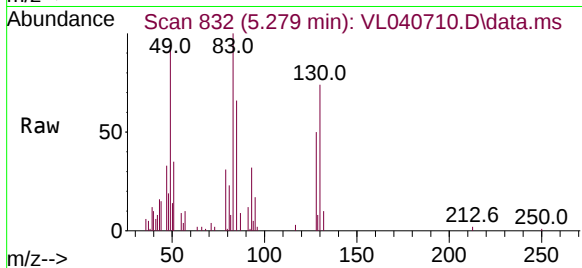
ClientSampleId :

Tgt Ion: 83 Resp: 7506

Ion Ratio Lower Upper

83 100

85 66.9 51.8 77.8



#31

cis-1,2-Dichloroethene

Concen: 0.068 ppbv

RT: 5.208 min Scan# 810

Delta R.T. 0.122 min

Lab File: VL040710.D

Acq: 18 Sep 2023 22:21

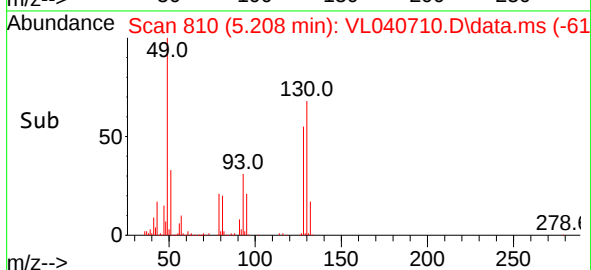
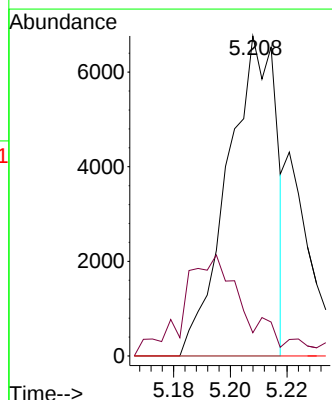
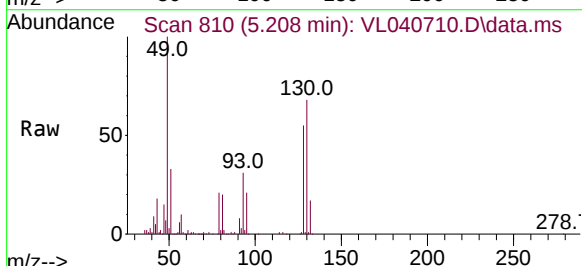
Tgt Ion: 61 Resp: 8067

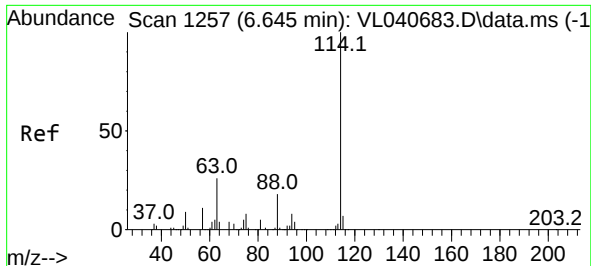
Ion Ratio Lower Upper

61 100

96 4.6 51.2 76.8#

98 0.0 32.3 48.5#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.658 min Scan# 11

Delta R.T. -0.003 min

Lab File: VL040710.D

Acq: 18 Sep 2023 22:21

Instrument :

MSVOA_L

ClientSampleId :

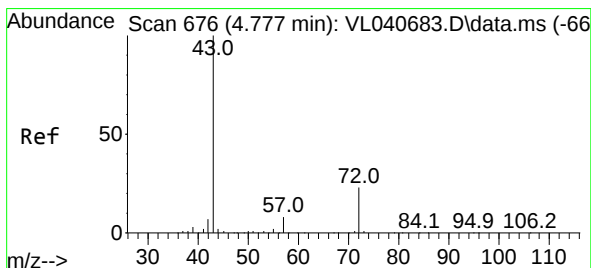
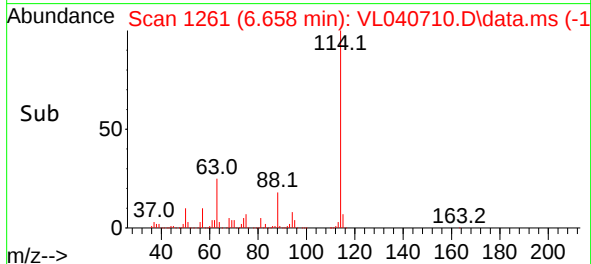
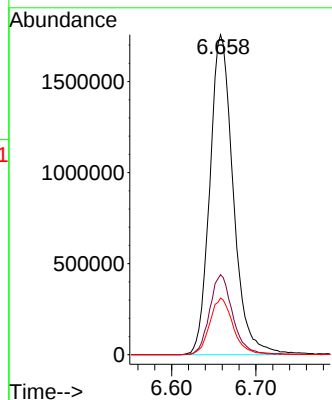
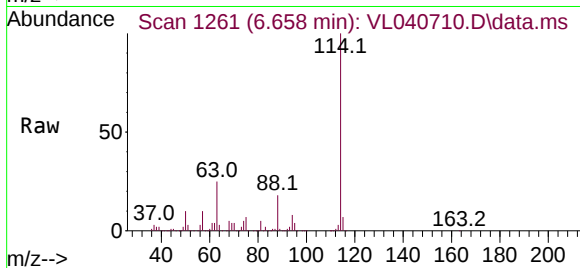
Tgt Ion:114 Resp: 3382595

Ion Ratio Lower Upper

114 100

63 24.9 21.1 31.7

88 17.9 14.5 21.7



#34

2-Butanone

Concen: 0.233 ppbv

RT: 4.796 min Scan# 682

Delta R.T. 0.007 min

Lab File: VL040710.D

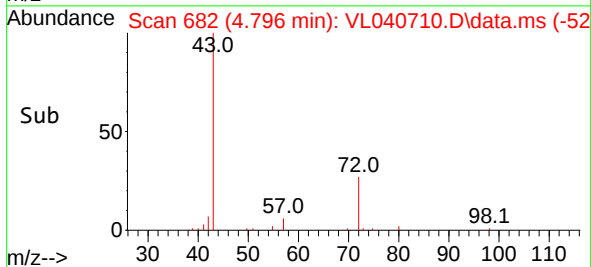
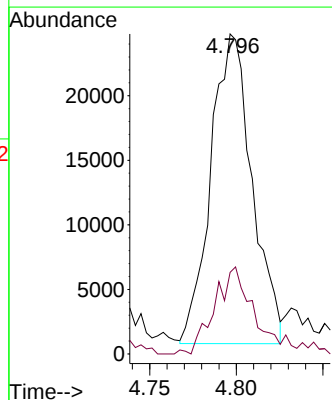
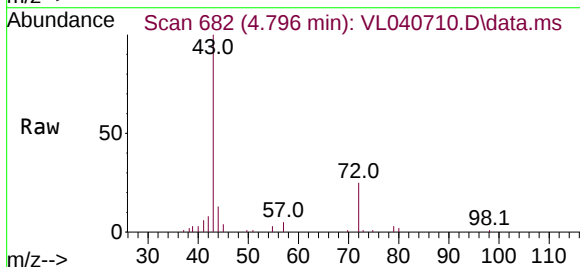
Acq: 18 Sep 2023 22:21

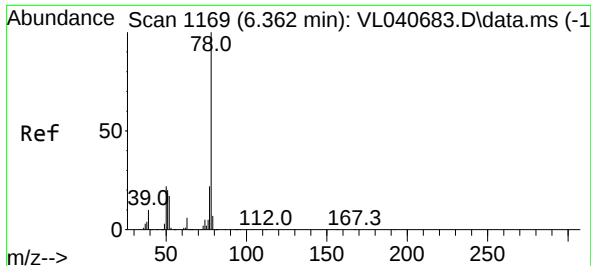
Tgt Ion: 43 Resp: 39705

Ion Ratio Lower Upper

43 100

72 28.8 18.6 27.8#

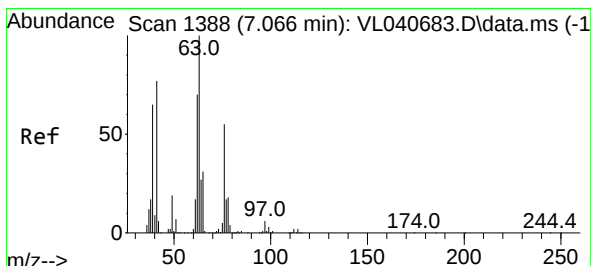
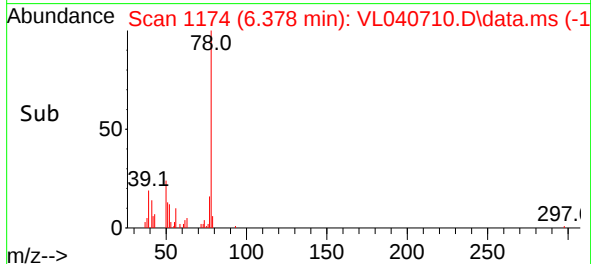
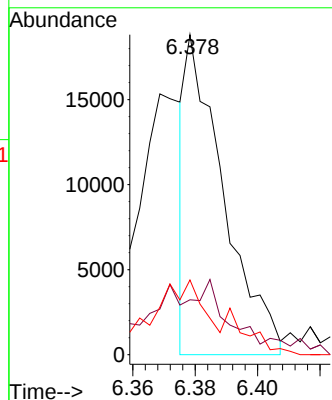
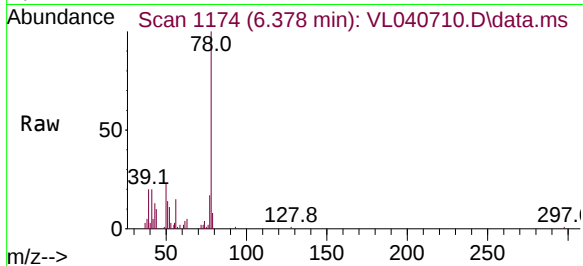




#36
Benzene
Concen: 0.063 ppbv
RT: 6.378 min Scan# 1169
Delta R.T. -0.003 min
Lab File: VL040710.D
Acq: 18 Sep 2023 22:21

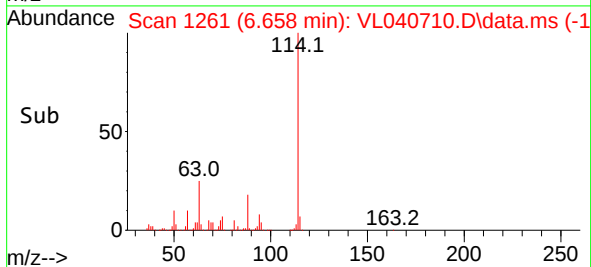
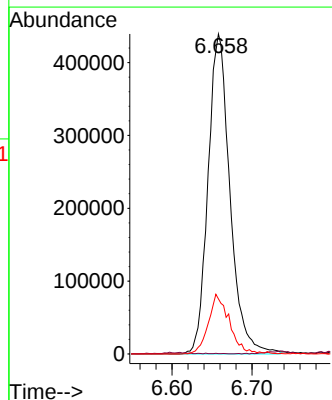
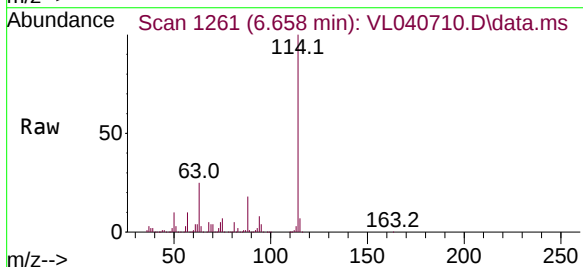
Instrument :
MSVOA_L
ClientSampleId :

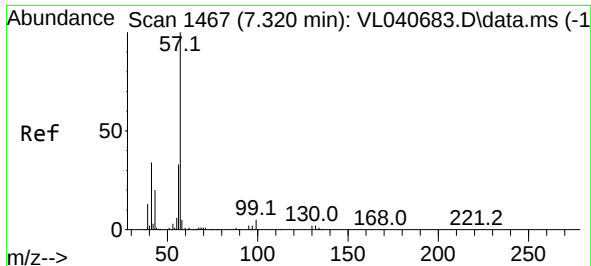
Tgt Ion: 78 Resp: 15772
Ion Ratio Lower Upper
78 100
77 13.2 17.9 26.9#
50 20.9 17.3 25.9



#39
1,2-Dichloropropane
Concen: 8.691 ppbv
RT: 6.658 min Scan# 1261
Delta R.T. -0.424 min
Lab File: VL040710.D
Acq: 18 Sep 2023 22:21

Tgt Ion: 63 Resp: 837968
Ion Ratio Lower Upper
63 100
41 0.0 61.6 92.4#
62 17.2 55.8 83.8#





#44

2,2,4-Trimethylpentane

Concen: 0.167 ppbv

RT: 7.333 min Scan# 1467

Delta R.T. -0.003 min

Lab File: VL040710.D

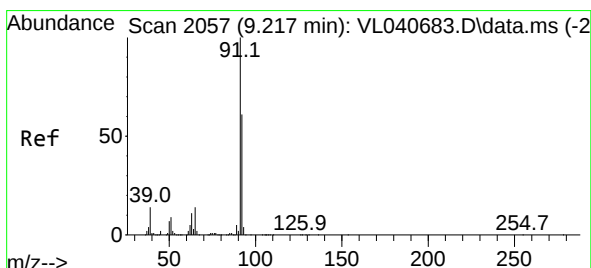
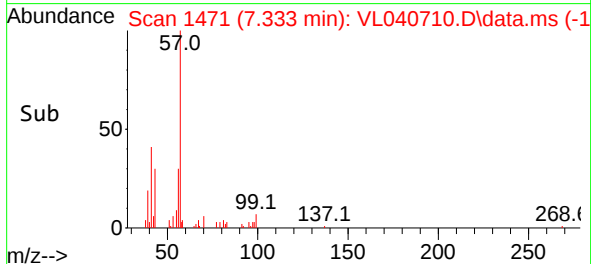
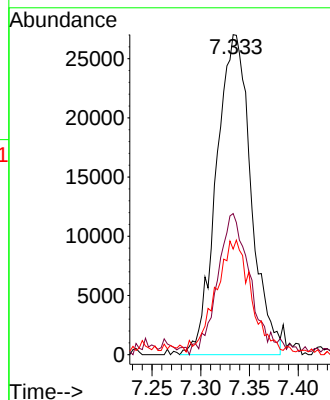
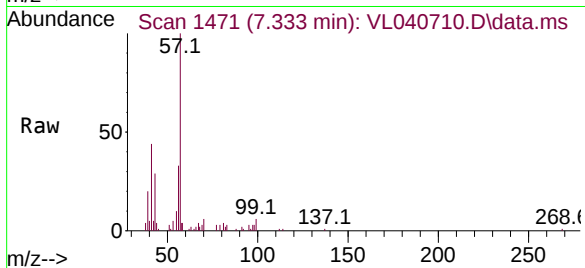
Acq: 18 Sep 2023 22:21

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion: 57	Resp: 66599
Ion Ratio	Lower Upper
57 100	
41 42.7	28.5 42.7#
56 39.6	25.4 38.2#



#53

Toluene

Concen: 0.743 ppbv

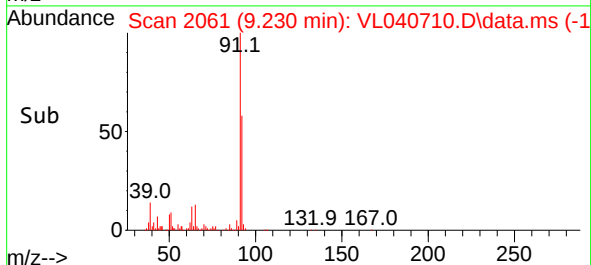
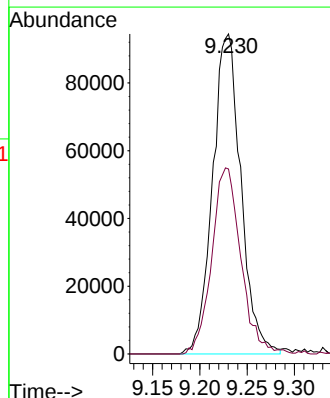
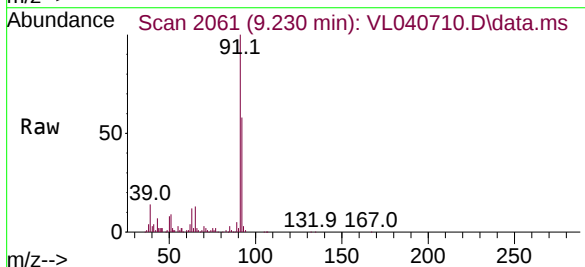
RT: 9.230 min Scan# 2061

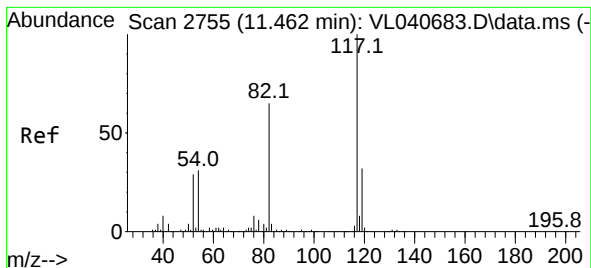
Delta R.T. 0.000 min

Lab File: VL040710.D

Acq: 18 Sep 2023 22:21

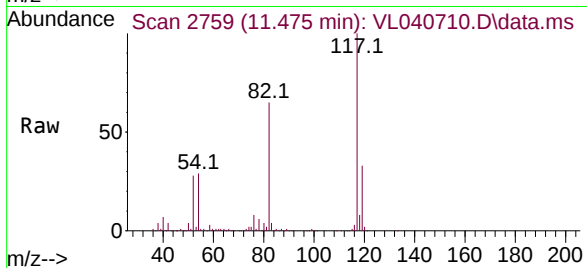
Tgt Ion: 91	Resp: 196580
Ion Ratio	Lower Upper
91 100	
92 60.0	48.5 72.7



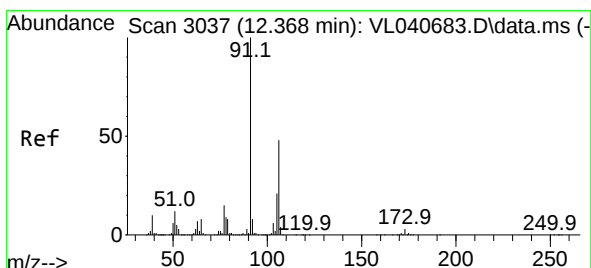
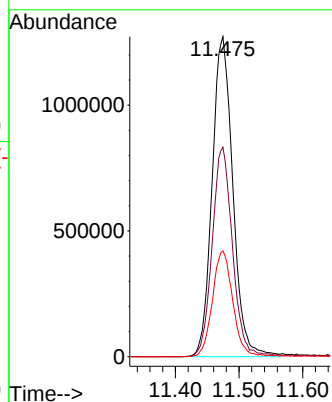
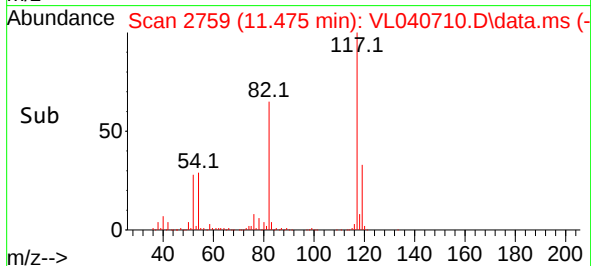


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.475 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL040710.D
Acq: 18 Sep 2023 22:21

Instrument :
MSVOA_L
ClientSampleId :

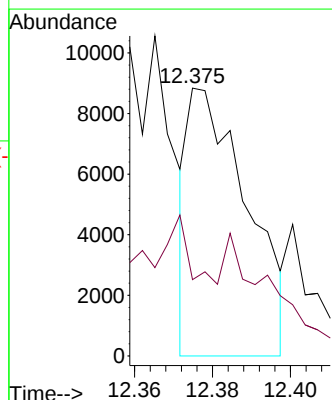
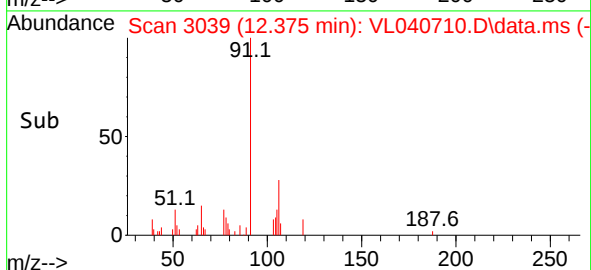
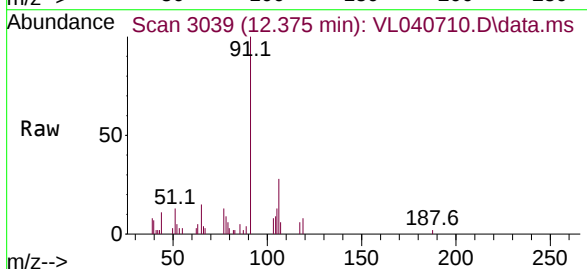


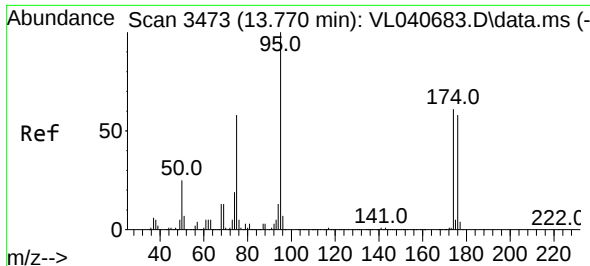
Tgt Ion:117 Resp: 2878219
Ion Ratio Lower Upper
117 100
82 64.9 51.4 77.0
119 32.6 24.7 37.1



#59
m/p-Xylene
Concen: 0.030 ppbv
RT: 12.375 min Scan# 3039
Delta R.T. -0.006 min
Lab File: VL040710.D
Acq: 18 Sep 2023 22:21

Tgt Ion: 91 Resp: 9341
Ion Ratio Lower Upper
91 100
106 0.0 34.8 52.2#

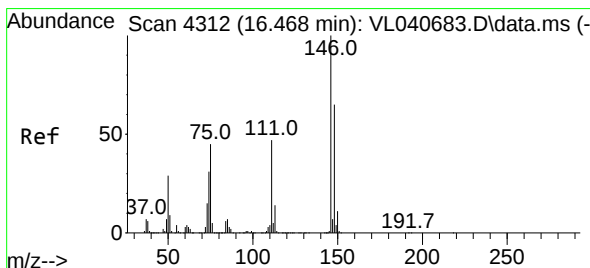
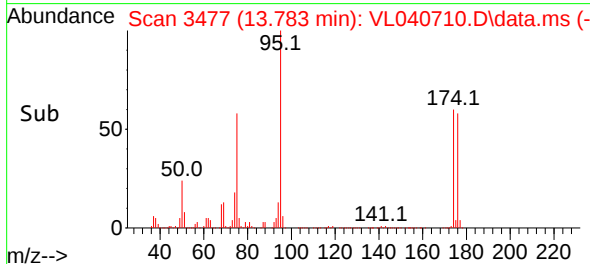
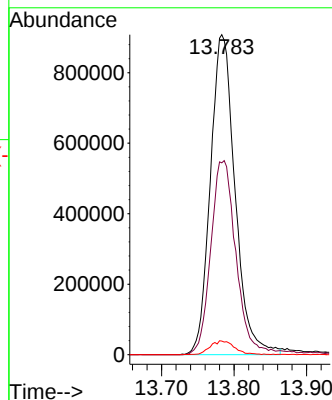
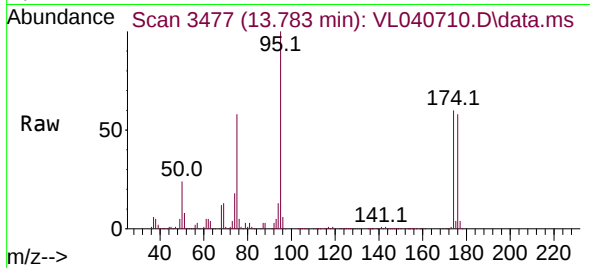




#68
1-Bromo-4-Fluorobenzene
Concen: 9.669 ppbv
RT: 13.783 min Scan# 3477
Delta R.T. -0.003 min
Lab File: VL040710.D
Acq: 18 Sep 2023 22:21

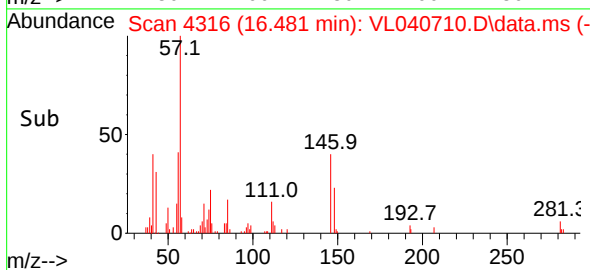
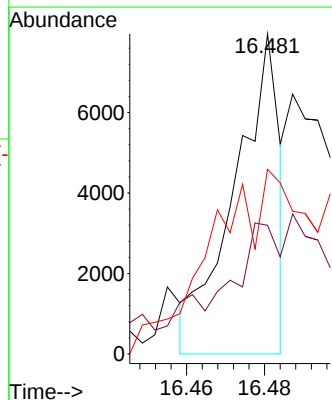
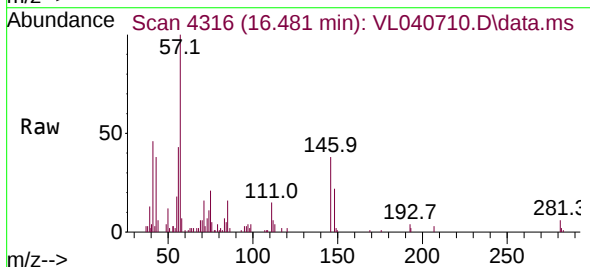
Instrument :
MSVOA_L
ClientSampleId :

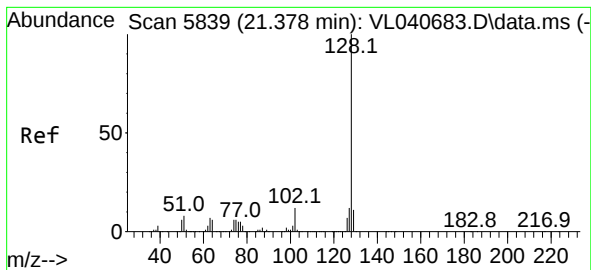
Tgt Ion: 95 Resp: 2150185
Ion Ratio Lower Upper
95 100
174 63.4 48.9 73.3
175 4.4 3.5 5.3



#76
1,4-Dichlorobenzene
Concen: 0.031 ppbv
RT: 16.481 min Scan# 4316
Delta R.T. 0.000 min
Lab File: VL040710.D
Acq: 18 Sep 2023 22:21

Tgt Ion:146 Resp: 6384
Ion Ratio Lower Upper
146 100
111 0.0 23.8 71.2#
148 183.6 32.6 97.7#





#79

Naphthalene

Concen: 0.135 ppbv

RT: 21.403 min Scan# 5847

Delta R.T. 0.010 min

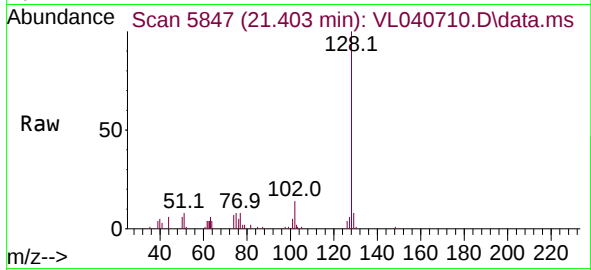
Lab File: VL040710.D

Acq: 18 Sep 2023 22:21

Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion:	128	Resp:	30403
Ion Ratio	Lower	Upper	
128	100		
127	5.9	9.8	14.6#
129	8.7	8.4	12.6

