

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL102523\
 Data File : VL040799.D
 Acq On : 25 Oct 2023 14:07
 Operator : SY/MD
 Sample : 05024-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1

Quant Time: Oct 26 03:51:58 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101123AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Oct 12 00:21:08 2023
 Response via : Initial Calibration

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

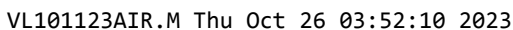
Internal Standards						
1) Bromochloromethane	5.189	49	875774	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	6.645	114	2379217	10.000	ppbv	-0.02
55) Chlorobenzene-d5	11.452	117	2137362	10.000	ppbv	-0.02

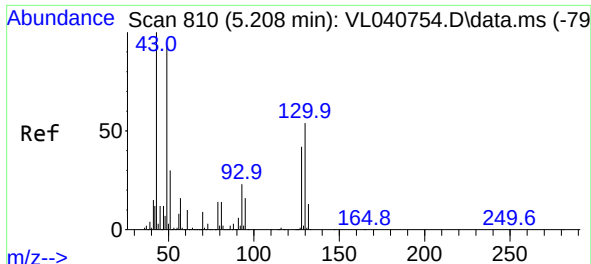
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.757	95	1656526	10.533	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.300%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.745	85	82857	0.537	ppbv	99
3) Chlorodifluoromethane	2.668	51	95175	0.739	ppbv #	76
4) Chloromethane	2.825	50	28714	0.565	ppbv	95
7) Chloroethane	2.812	64	809	0.047	ppbv #	43
9) Propene	2.716	41	30598	0.640	ppbv #	75
11) Trichlorofluoromethane	3.571	101	34066	0.286	ppbv	99
13) Ethanol	3.246	45	540762	50.111	ppbv	98
15) Acetone	3.475	43	779805	8.613	ppbv	95
17) tert-Butyl alcohol	3.893	59	7314	0.079	ppbv #	71
19) Isopropyl Alcohol	3.584	45	423399	7.265	ppbv	89
20) Methylene Chloride	3.938	84	935022	24.793	ppbv	100
25) Ethyl Acetate	5.211	43	431644	2.176	ppbv #	81
26) Hexane	5.211	57	558503	6.160	ppbv #	45
29) Chloroform	5.272	83	21353	0.163	ppbv	91
31) cis-1,2-Dichloroethene	5.208	61	6872	0.082	ppbv #	31
34) 2-Butanone	4.793	43	53243	0.494	ppbv #	90
36) Benzene	6.362	78	18653	0.102	ppbv #	80
39) 1,2-Dichloropropane	6.642	63	567291	7.935	ppbv #	25
41) Tetrahydrofuran	5.208	42	212474	2.849	ppbv #	50
44) 2,2,4-Trimethylpentane	7.314	57	13673	0.044	ppbv #	28
53) Toluene	9.208	91	68673	0.315	ppbv	93
58) Ethyl Benzene	12.069	91	8336	0.031	ppbv	99
60) o-Xylene	13.040	91	11295	0.054	ppbv #	56
61) Styrene	12.880	104	3597	0.031	ppbv #	1

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

Quant Time: Oct 26 03:51:58 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101123AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Oct 12 00:21:08 2023
Response via : Initial Calibration

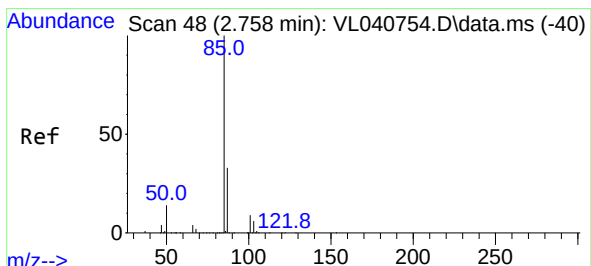
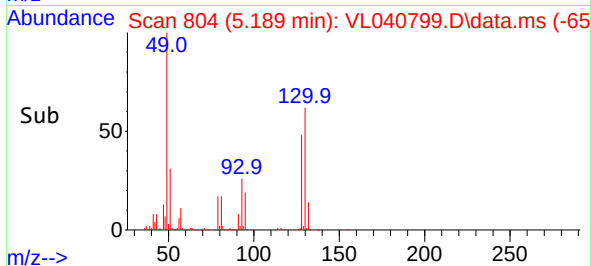
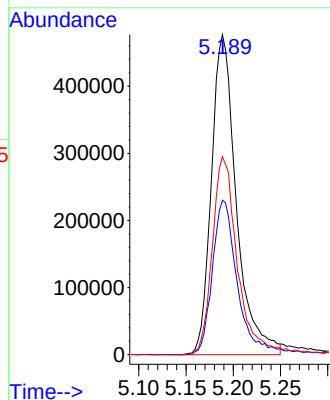
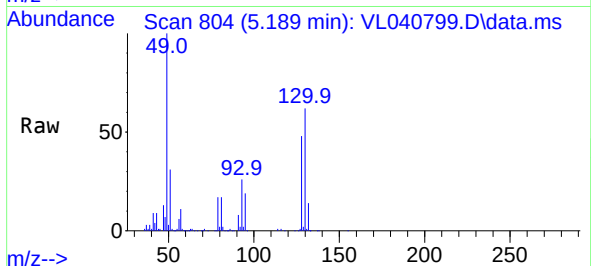




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.189 min Scan# 80
 Delta R.T. -0.019 min
 Lab File: VL040799.D
 Acq: 25 Oct 2023 14:07

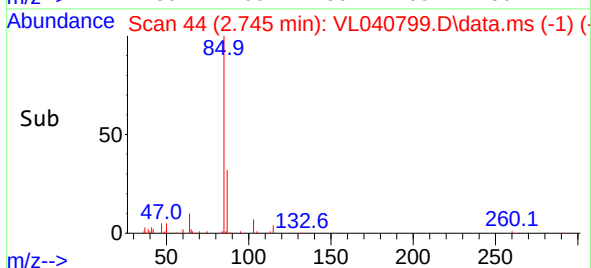
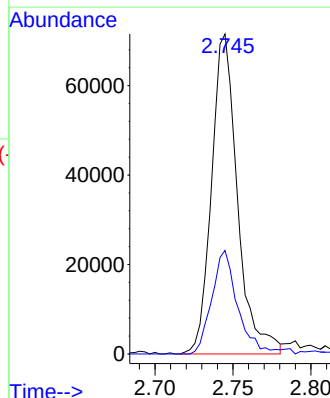
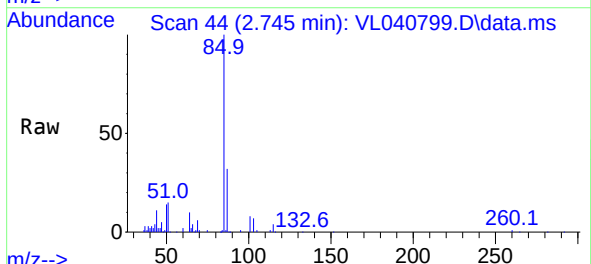
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1

Tgt Ion: 49 Resp: 875774
 Ion Ratio Lower Upper
 49 100
 128 50.2 23.9 71.7
 130 64.9 30.7 92.1

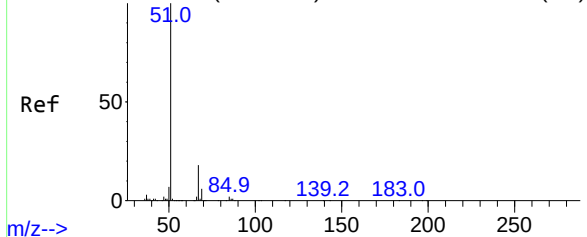


#2
 Dichlorodifluoromethane
 Concen: 0.537 ppbv
 RT: 2.745 min Scan# 44
 Delta R.T. -0.013 min
 Lab File: VL040799.D
 Acq: 25 Oct 2023 14:07

Tgt Ion: 85 Resp: 82857
 Ion Ratio Lower Upper
 85 100
 87 32.0 26.0 39.0



Abundance Scan 31 (2.703 min): VL040754.D\data.ms (-19)

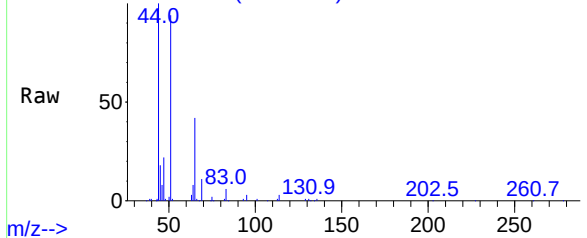


#3
Chlorodifluoromethane
Concen: 0.739 ppbv
RT: 2.668 min Scan# 20
Delta R.T. -0.035 min
Lab File: VL040799.D
Acq: 25 Oct 2023 14:07

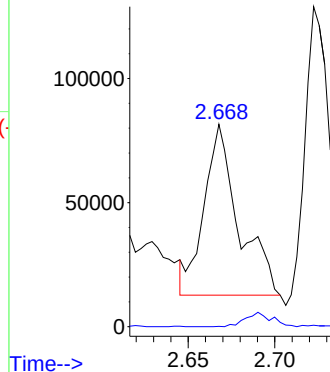
Instrument :
MSVOA_L
ClientSampleId :
IA-1

Tgt Ion: 51 Resp: 95175
Ion Ratio Lower Upper
51 100
67 7.0 13.8 20.6#

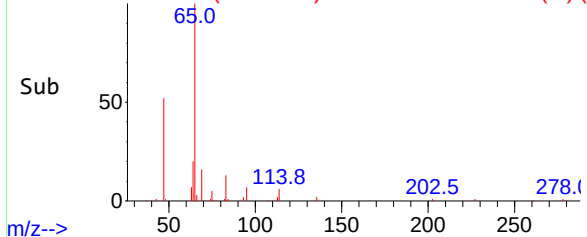
Abundance Scan 20 (2.668 min): VL040799.D\data.ms



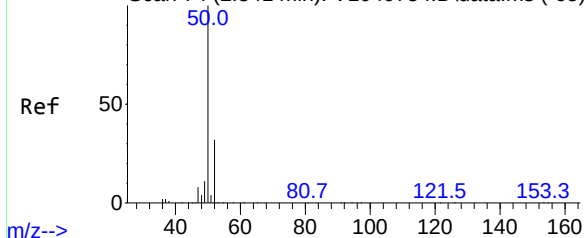
Abundance



Abundance Scan 20 (2.668 min): VL040799.D\data.ms (-1) (-



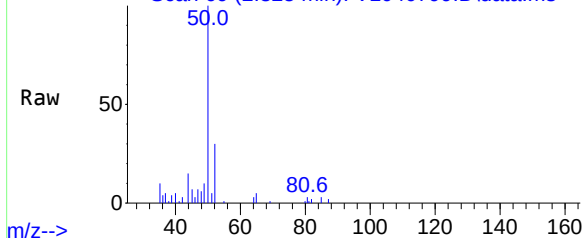
Abundance Scan 74 (2.841 min): VL040754.D\data.ms (-65)



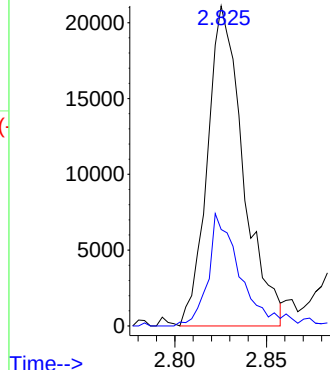
#4
Chloromethane
Concen: 0.565 ppbv
RT: 2.825 min Scan# 69
Delta R.T. -0.016 min
Lab File: VL040799.D
Acq: 25 Oct 2023 14:07

Tgt Ion: 50 Resp: 28714
Ion Ratio Lower Upper
50 100
52 29.0 25.3 37.9

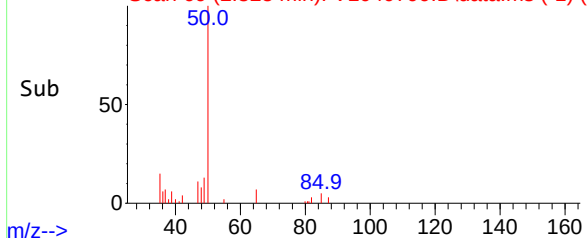
Abundance Scan 69 (2.825 min): VL040799.D\data.ms

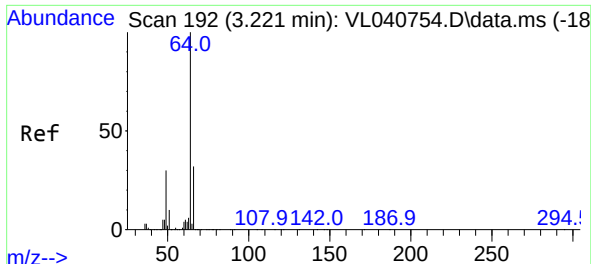


Abundance



Abundance Scan 69 (2.825 min): VL040799.D\data.ms (-1) (-

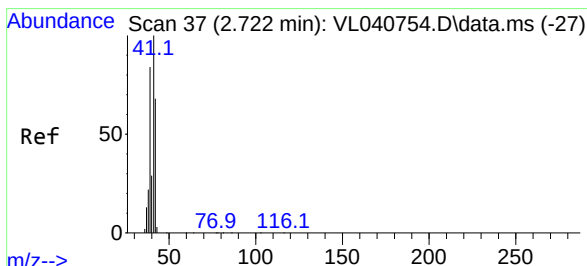
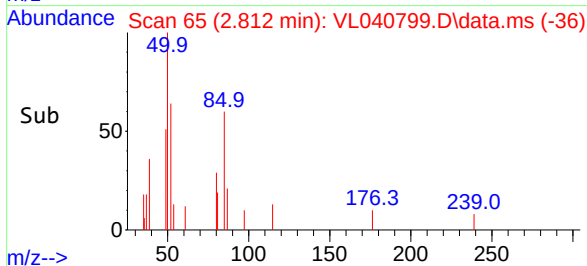
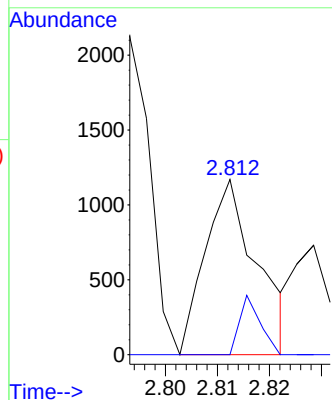
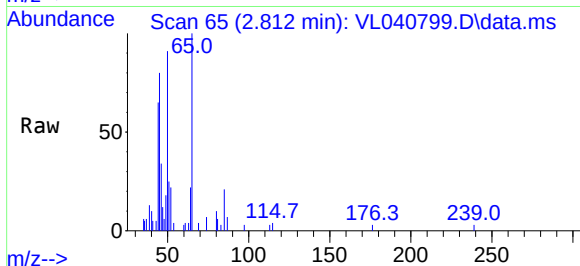




#7
Chloroethane
Concen: 0.047 ppbv
RT: 2.812 min Scan# 61
Delta R.T. -0.408 min
Lab File: VL040799.D
Acq: 25 Oct 2023 14:07

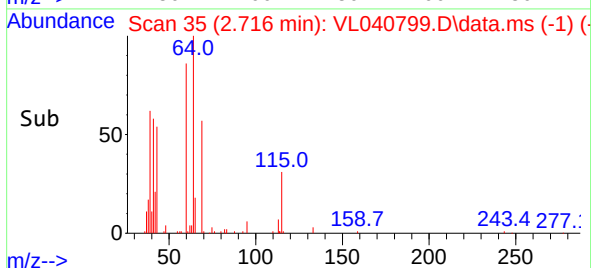
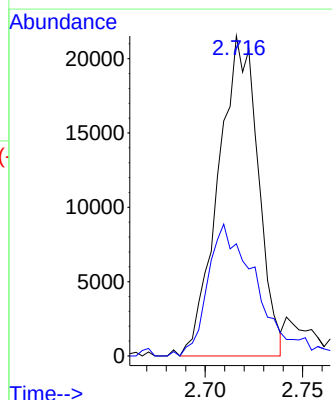
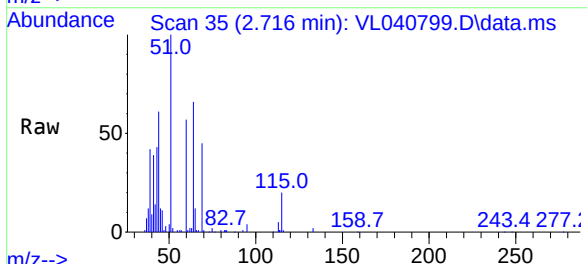
Instrument :
MSVOA_L
ClientSampleId :
IA-1

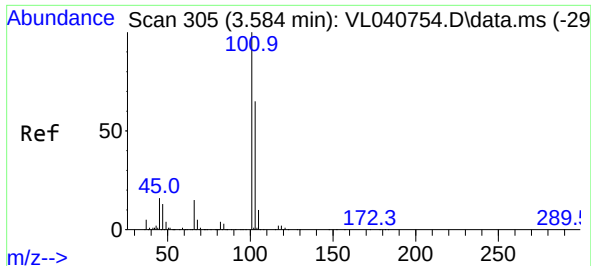
Tgt Ion: 64 Resp: 809
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#



#9
Propene
Concen: 0.640 ppbv
RT: 2.716 min Scan# 35
Delta R.T. -0.006 min
Lab File: VL040799.D
Acq: 25 Oct 2023 14:07

Tgt Ion: 41 Resp: 30598
Ion Ratio Lower Upper
41 100
42 51.0 57.1 85.7#

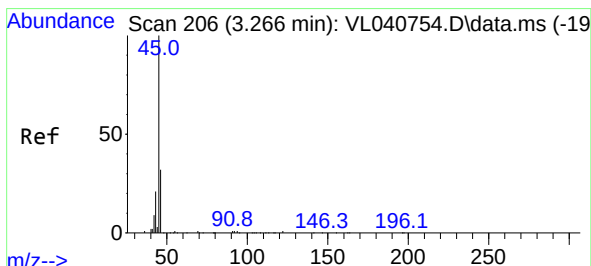
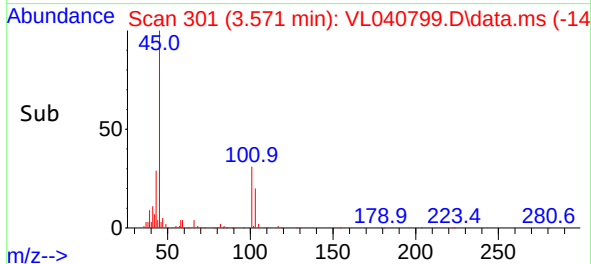
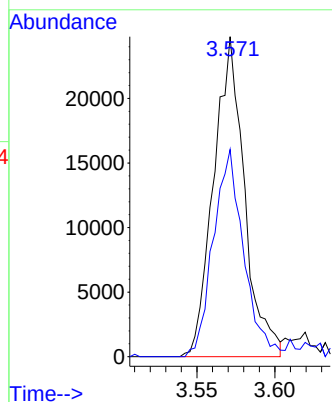
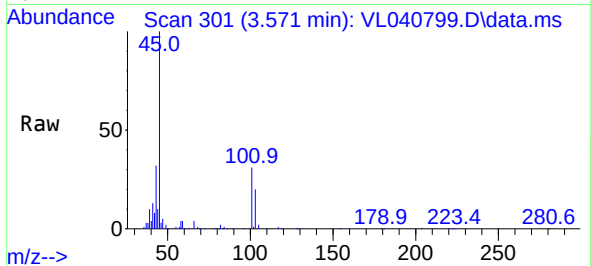




#11
Trichlorofluoromethane
Concen: 0.286 ppbv
RT: 3.571 min Scan# 30
Delta R.T. -0.013 min
Lab File: VL040799.D
Acq: 25 Oct 2023 14:07

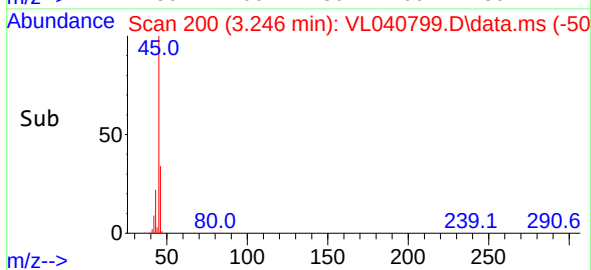
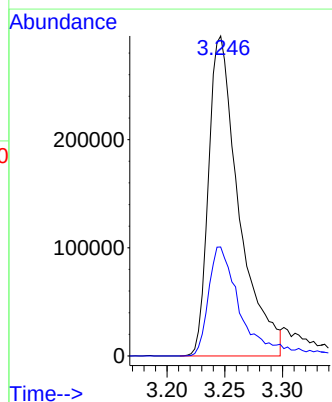
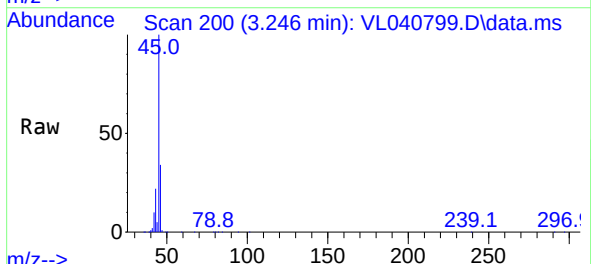
Instrument :
MSVOA_L
ClientSampleId :
IA-1

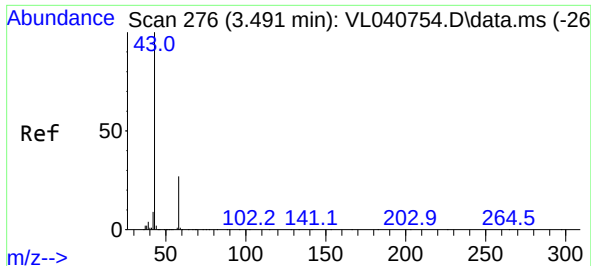
Tgt Ion:101 Resp: 34066
Ion Ratio Lower Upper
101 100
103 64.7 52.2 78.2



#13
Ethanol
Concen: 50.111 ppbv
RT: 3.246 min Scan# 200
Delta R.T. -0.019 min
Lab File: VL040799.D
Acq: 25 Oct 2023 14:07

Tgt Ion: 45 Resp: 540762
Ion Ratio Lower Upper
45 100
46 37.7 14.6 58.2

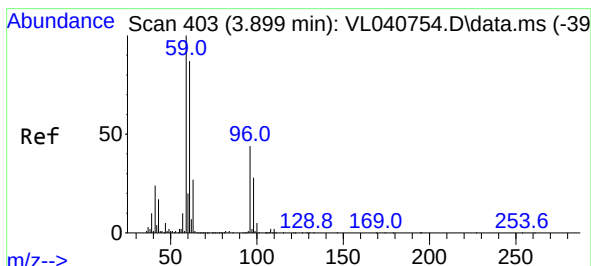
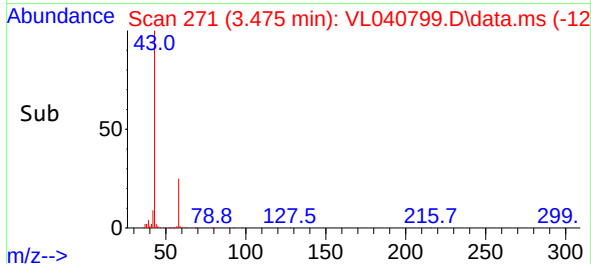
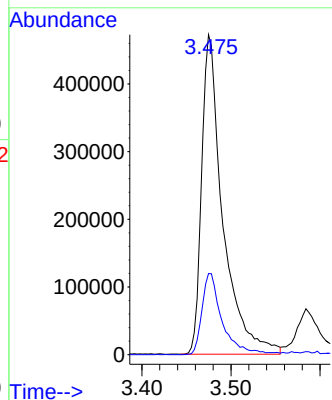
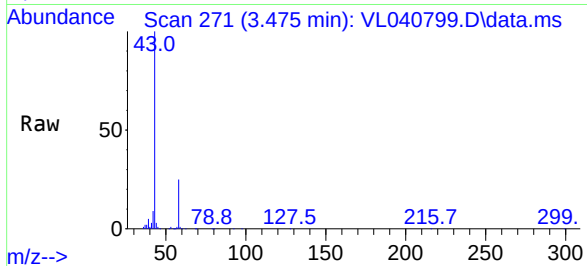




#15
Acetone
Concen: 8.613 ppbv
RT: 3.475 min Scan# 21
Delta R.T. -0.016 min
Lab File: VL040799.D
Acq: 25 Oct 2023 14:07

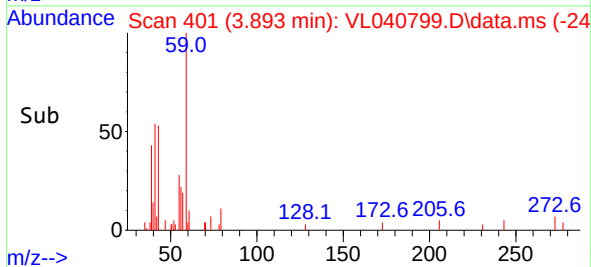
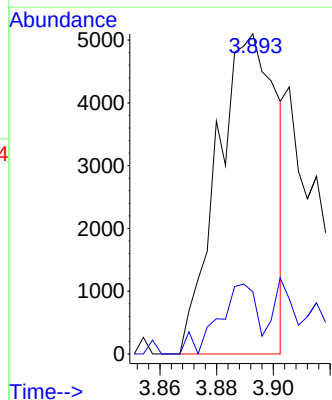
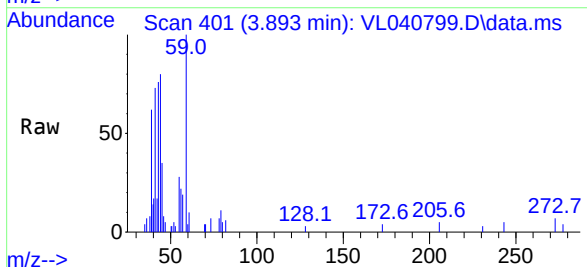
Instrument :
MSVOA_L
ClientSampleId :
IA-1

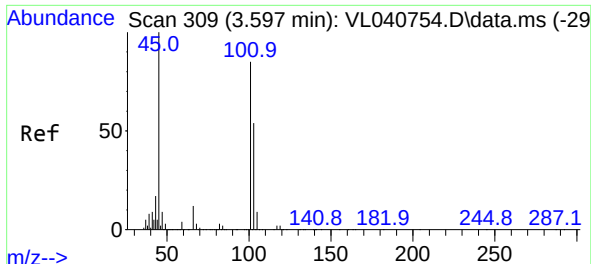
Tgt Ion: 43 Resp: 779805
Ion Ratio Lower Upper
43 100
58 24.2 21.6 32.4



#17
tert-Butyl alcohol
Concen: 0.079 ppbv
RT: 3.893 min Scan# 401
Delta R.T. -0.006 min
Lab File: VL040799.D
Acq: 25 Oct 2023 14:07

Tgt Ion: 59 Resp: 7314
Ion Ratio Lower Upper
59 100
57 0.0 8.6 13.0#





#19

Isopropyl Alcohol

Concen: 7.265 ppbv

RT: 3.584 min Scan# 309

Delta R.T. -0.013 min

Lab File: VL040799.D

Acq: 25 Oct 2023 14:07

Instrument :

MSVOA_1

ClientSampleId :

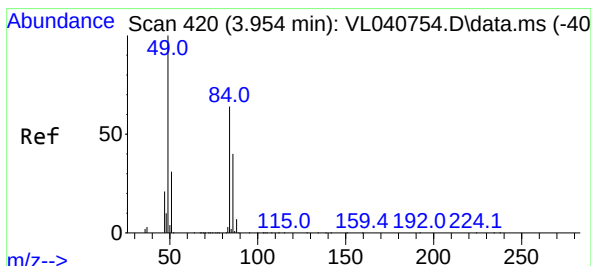
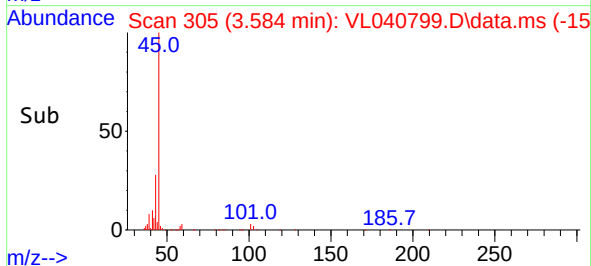
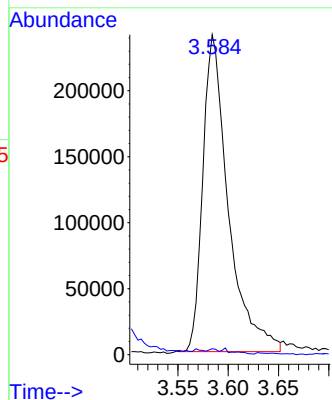
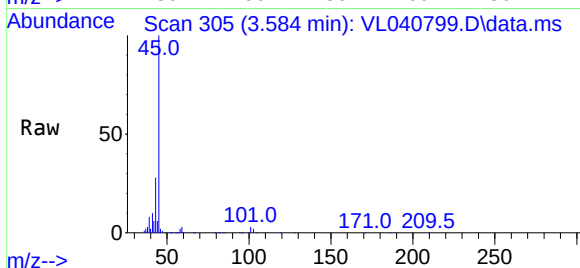
IA-1

Tgt Ion: 45 Resp: 423399

Ion Ratio Lower Upper

45 100

58 44.6 30.3 45.5



#20

Methylene Chloride

Concen: 24.793 ppbv

RT: 3.938 min Scan# 415

Delta R.T. -0.016 min

Lab File: VL040799.D

Acq: 25 Oct 2023 14:07

Tgt Ion: 84 Resp: 935022

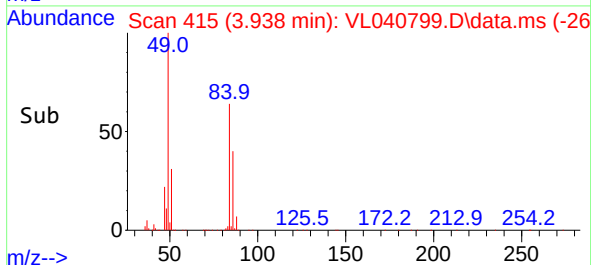
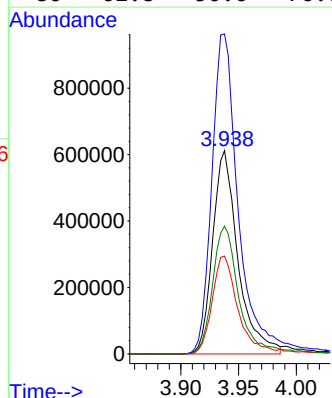
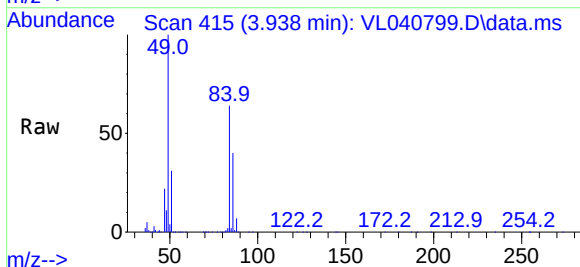
Ion Ratio Lower Upper

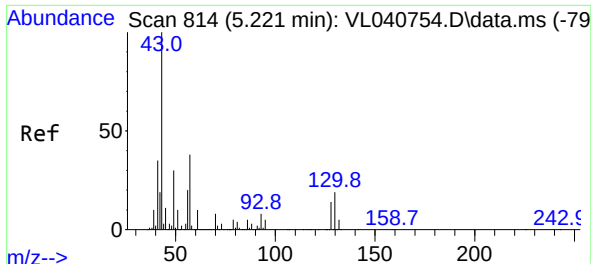
84 100

49 157.3 125.6 188.4

51 48.0 38.9 58.3

86 62.8 50.6 76.0



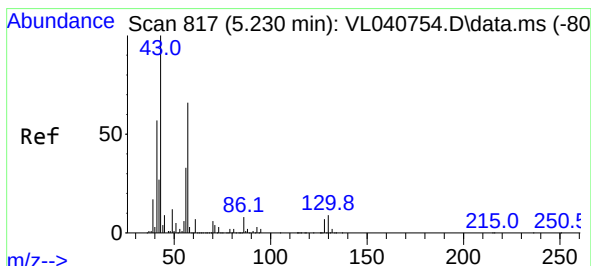
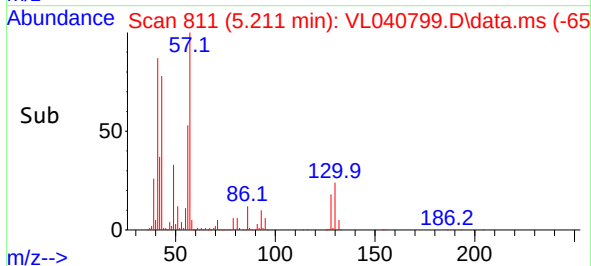
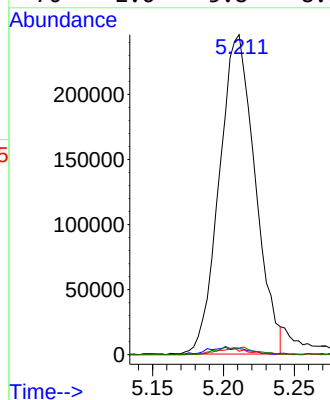
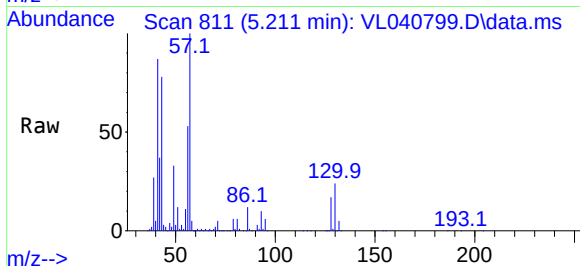


#25
Ethyl Acetate
Concen: 2.176 ppbv
RT: 5.211 min Scan# 811
Delta R.T. -0.010 min
Lab File: VL040799.D
Acq: 25 Oct 2023 14:07

Instrument :
MSVOA_1
ClientSampleId :
IA-1

Tgt Ion: 43 Resp: 431644

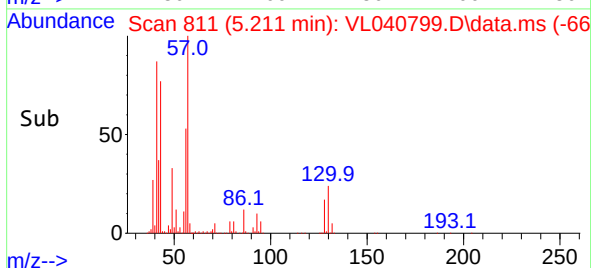
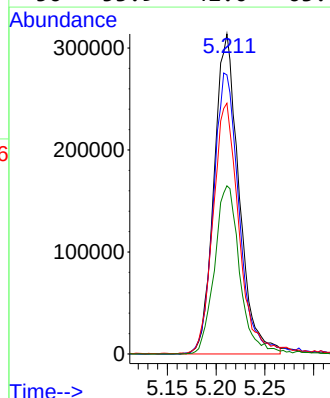
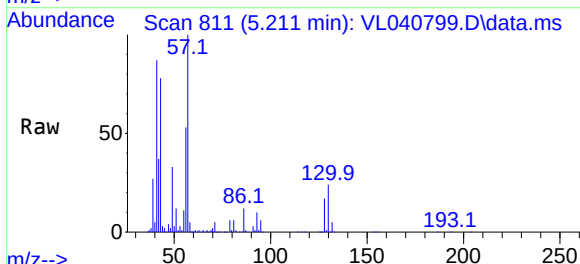
Ion	Ratio	Lower	Upper
43	100		
45	3.0	8.2	12.4#
61	1.9	8.2	12.2#
70	2.6	5.8	8.6#

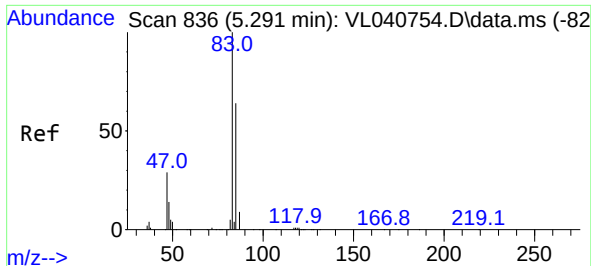


#26
Hexane
Concen: 6.160 ppbv
RT: 5.211 min Scan# 811
Delta R.T. -0.019 min
Lab File: VL040799.D
Acq: 25 Oct 2023 14:07

Tgt Ion: 57 Resp: 558503

Ion	Ratio	Lower	Upper
57	100		
41	91.9	71.4	107.2
43	82.8	182.3	273.5#
56	53.9	42.0	63.0

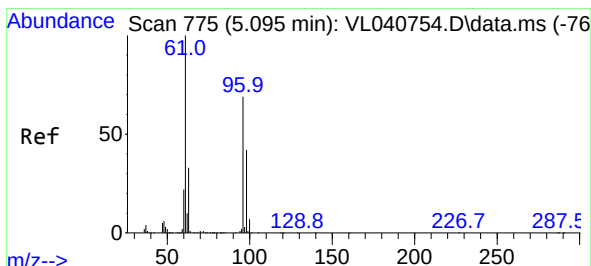
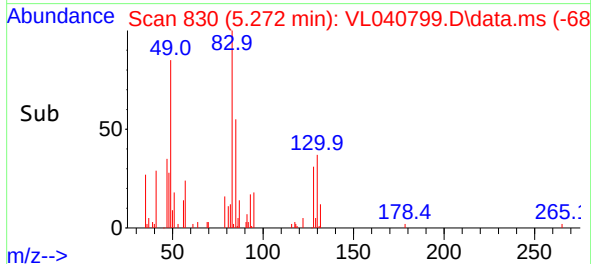
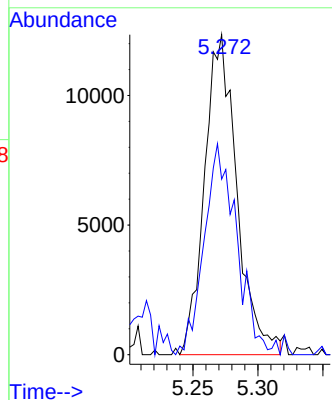
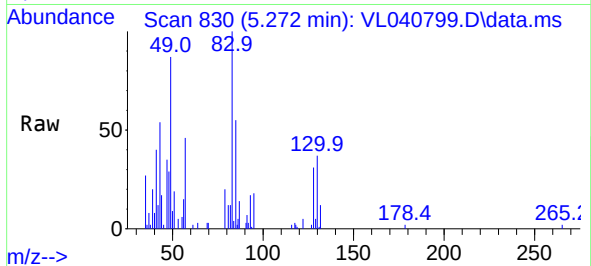




#29
Chloroform
Concen: 0.163 ppbv
RT: 5.272 min Scan# 810
Delta R.T. -0.019 min
Lab File: VL040799.D
Acq: 25 Oct 2023 14:07

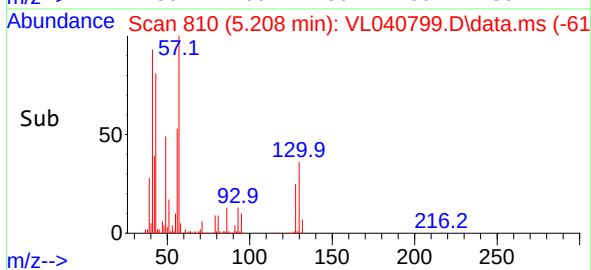
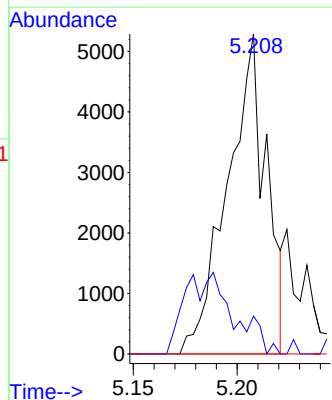
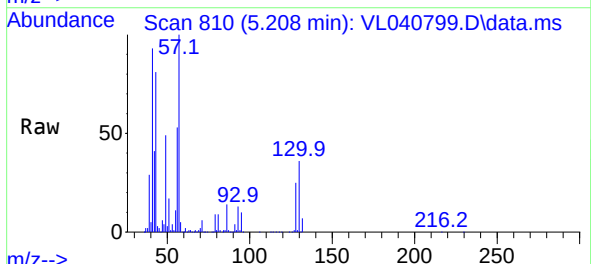
Instrument :
MSVOA_L
ClientSampleId :
IA-1

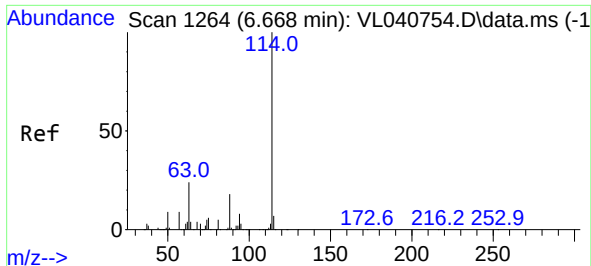
Tgt Ion: 83 Resp: 21353
Ion Ratio Lower Upper
83 100
85 56.8 51.3 76.9



#31
cis-1,2-Dichloroethene
Concen: 0.082 ppbv
RT: 5.208 min Scan# 810
Delta R.T. 0.113 min
Lab File: VL040799.D
Acq: 25 Oct 2023 14:07

Tgt Ion: 61 Resp: 6872
Ion Ratio Lower Upper
61 100
96 11.9 55.1 82.7#
98 0.0 33.5 50.3#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.645 min Scan# 11

Delta R.T. -0.022 min

Lab File: VL040799.D

Acq: 25 Oct 2023 14:07

Instrument :

MSVOA_L

ClientSampleId :

IA-1

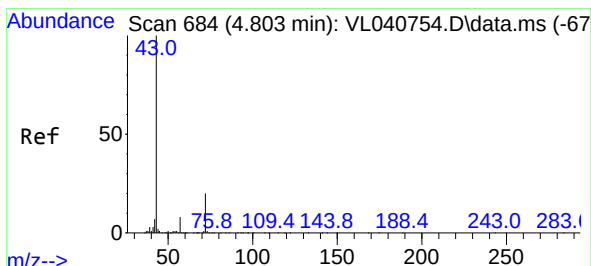
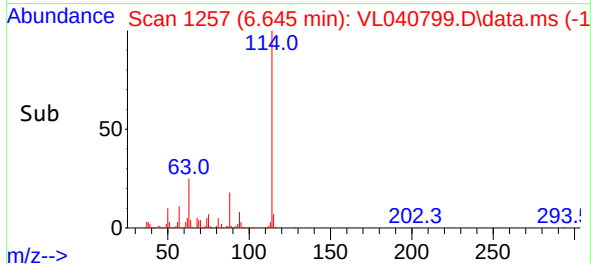
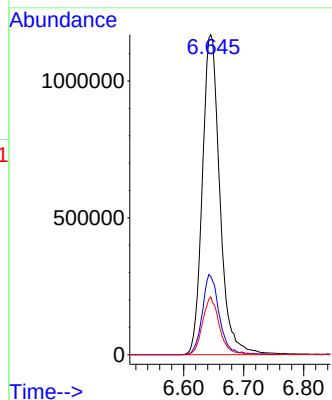
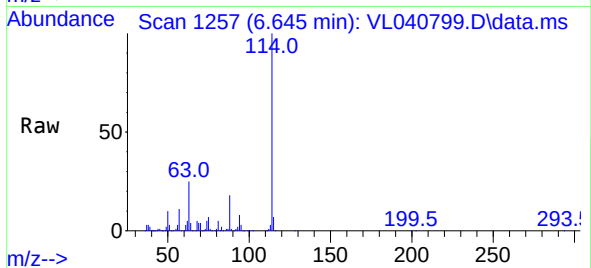
Tgt Ion:114 Resp: 2379217

Ion Ratio Lower Upper

114 100

63 24.5 19.8 29.6

88 17.5 14.2 21.2



#34

2-Butanone

Concen: 0.494 ppbv

RT: 4.793 min Scan# 681

Delta R.T. -0.010 min

Lab File: VL040799.D

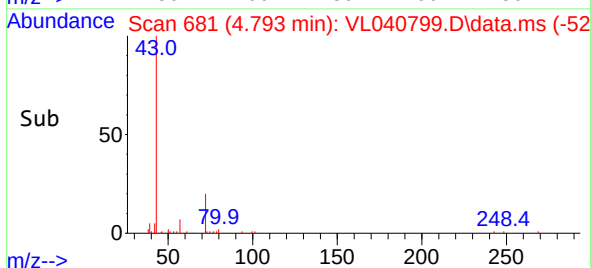
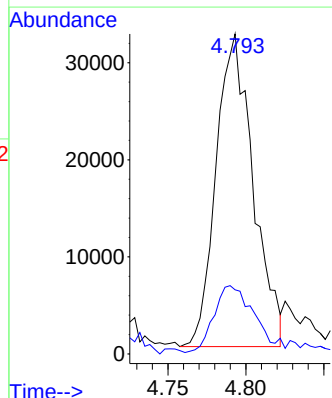
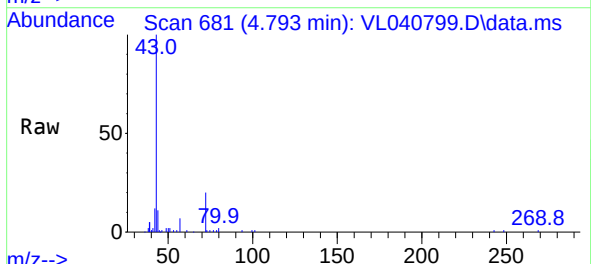
Acq: 25 Oct 2023 14:07

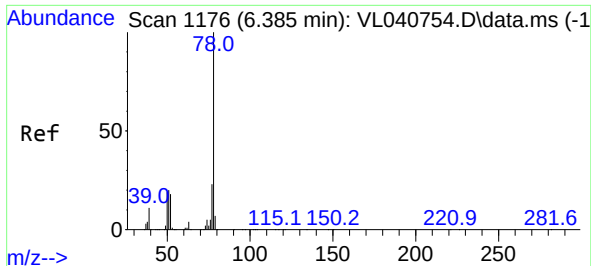
Tgt Ion: 43 Resp: 53243

Ion Ratio Lower Upper

43 100

72 25.8 16.8 25.2#

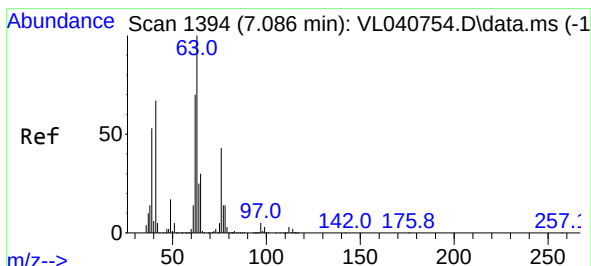
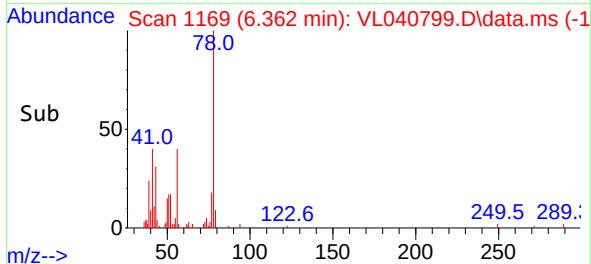
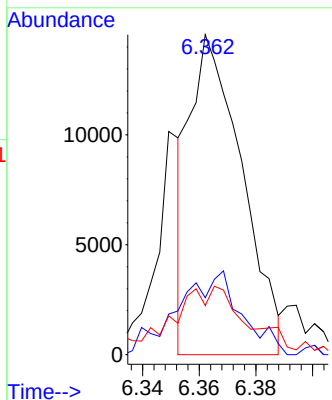
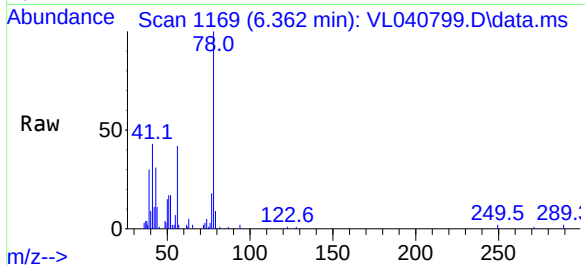




#36
Benzene
Concen: 0.102 ppbv
RT: 6.362 min Scan# 1176
Delta R.T. -0.022 min
Lab File: VL040799.D
Acq: 25 Oct 2023 14:07

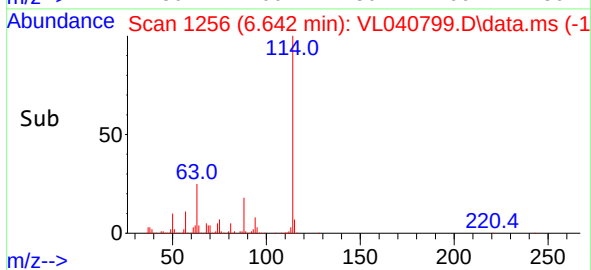
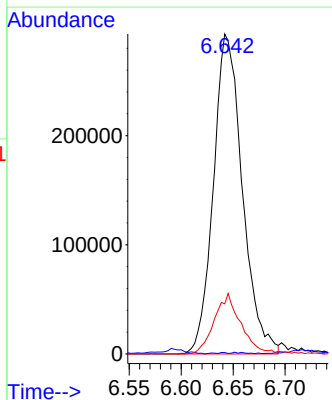
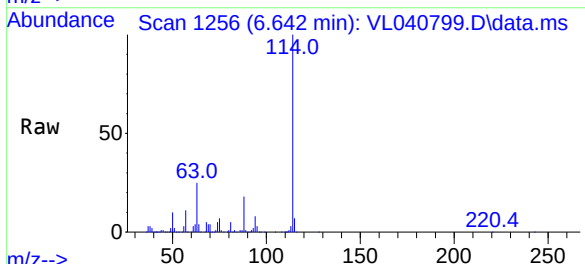
Instrument :
MSVOA_L
ClientSampleId :
IA-1

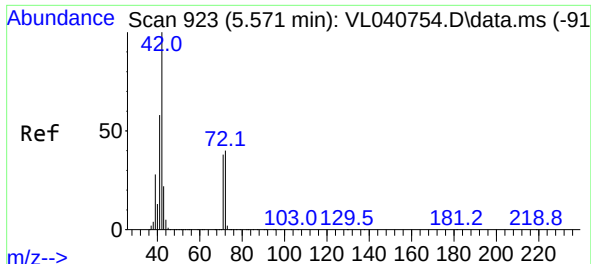
Tgt Ion: 78 Resp: 18653
Ion Ratio Lower Upper
78 100
77 16.3 18.4 27.6#
50 6.3 15.0 22.4#



#39
1,2-Dichloropropane
Concen: 7.935 ppbv
RT: 6.642 min Scan# 1256
Delta R.T. -0.444 min
Lab File: VL040799.D
Acq: 25 Oct 2023 14:07

Tgt Ion: 63 Resp: 567291
Ion Ratio Lower Upper
63 100
41 0.1 53.7 80.5#
62 15.7 55.7 83.5#

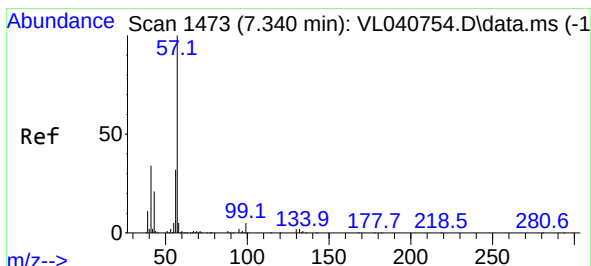
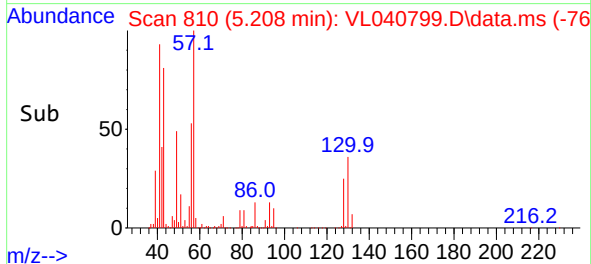
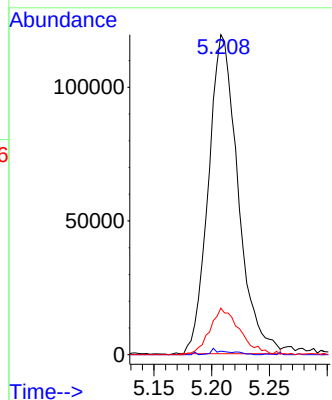
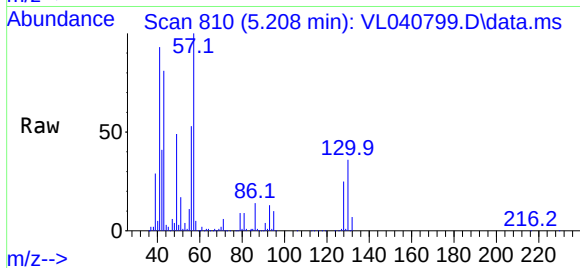




#41
Tetrahydrofuran
Concen: 2.849 ppbv
RT: 5.208 min Scan# 81
Delta R.T. -0.363 min
Lab File: VL040799.D
Acq: 25 Oct 2023 14:07

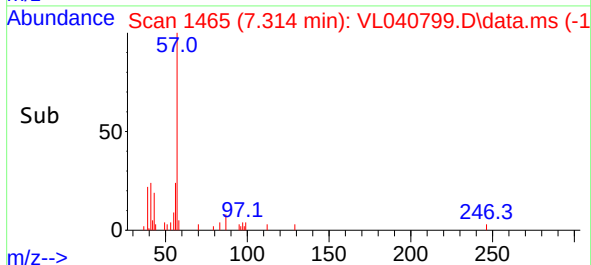
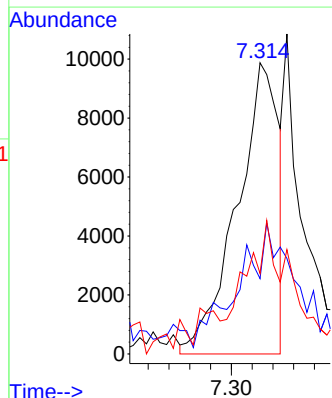
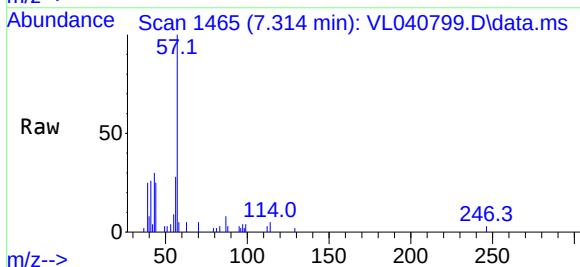
Instrument :
MSVOA_L
ClientSampleId :
IA-1

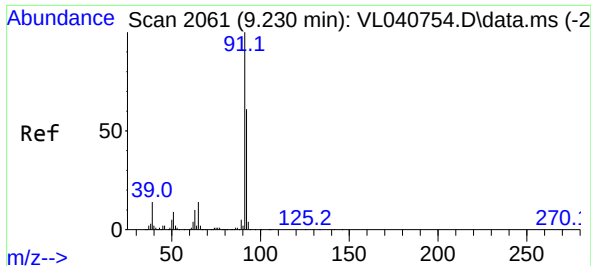
Tgt Ion: 42 Resp: 212474
Ion Ratio Lower Upper
42 100
72 1.2 31.1 46.7#
71 15.2 29.7 44.5#



#44
2,2,4-Trimethylpentane
Concen: 0.044 ppbv
RT: 7.314 min Scan# 1465
Delta R.T. -0.026 min
Lab File: VL040799.D
Acq: 25 Oct 2023 14:07

Tgt Ion: 57 Resp: 13673
Ion Ratio Lower Upper
57 100
41 73.8 27.4 41.0#
56 73.0 25.0 37.6#

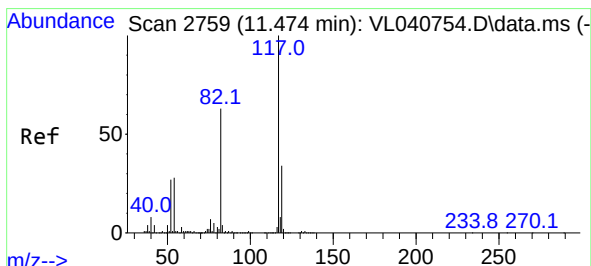
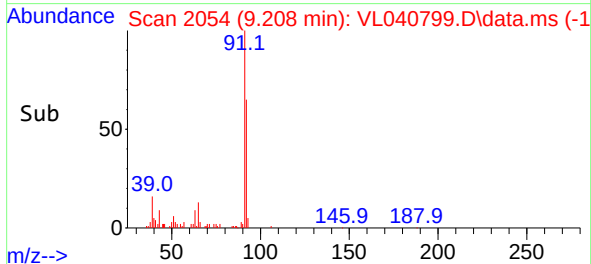
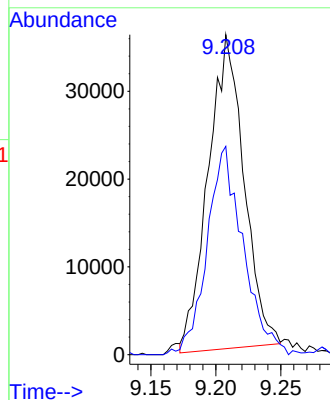
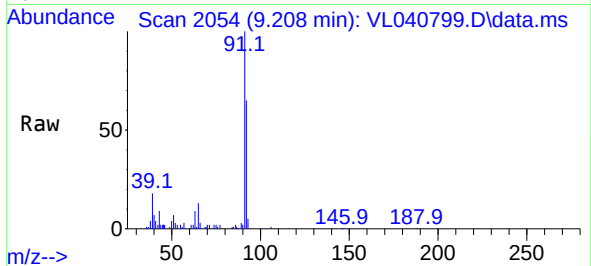




#53
Toluene
Concen: 0.315 ppbv
RT: 9.208 min Scan# 2061
Delta R.T. -0.023 min
Lab File: VL040799.D
Acq: 25 Oct 2023 14:07

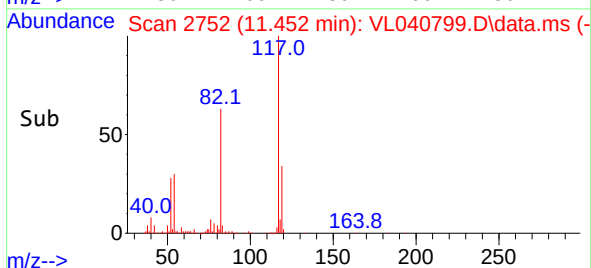
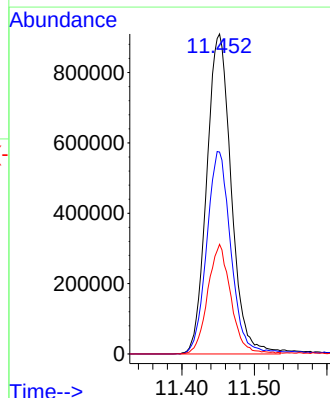
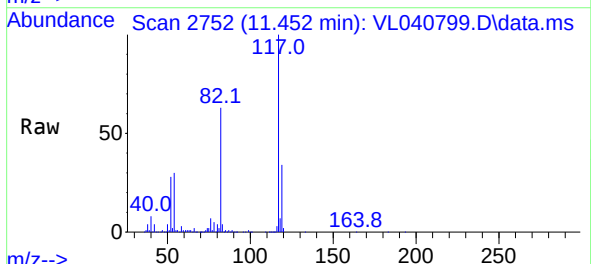
Instrument :
MSVOA_1
ClientSampleId :
IA-1

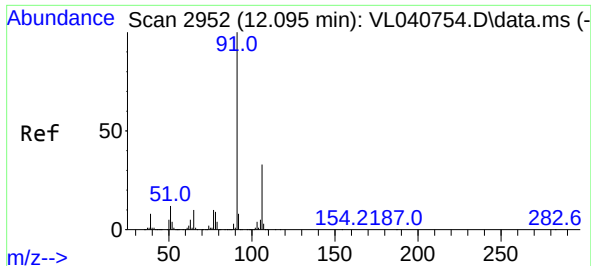
Tgt Ion: 91 Resp: 68673
Ion Ratio Lower Upper
91 100
92 67.8 50.2 75.2



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.452 min Scan# 2752
Delta R.T. -0.023 min
Lab File: VL040799.D
Acq: 25 Oct 2023 14:07

Tgt Ion: 117 Resp: 2137362
Ion Ratio Lower Upper
117 100
82 63.7 46.6 70.0
119 33.0 26.0 39.0





#58

Ethyl Benzene

Concen: 0.031 ppbv

RT: 12.069 min Scan# 2944

Delta R.T. -0.026 min

Lab File: VL040799.D

Acq: 25 Oct 2023 14:07

Instrument :

MSVOA_L

ClientSampleId :

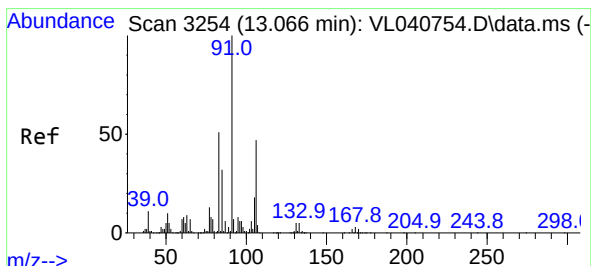
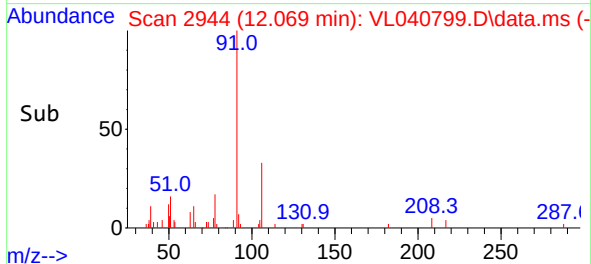
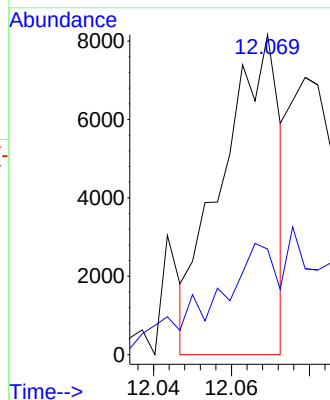
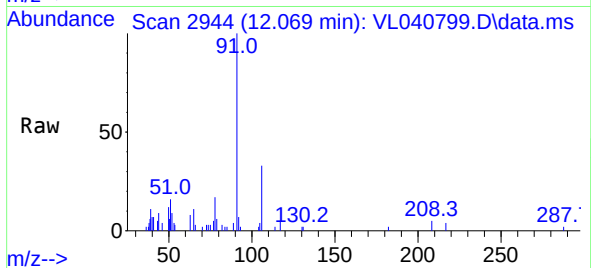
IA-1

Tgt Ion: 91 Resp: 8336

Ion Ratio Lower Upper

91 100

106 32.6 26.7 40.1



#60

o-Xylene

Concen: 0.054 ppbv

RT: 13.040 min Scan# 3246

Delta R.T. -0.026 min

Lab File: VL040799.D

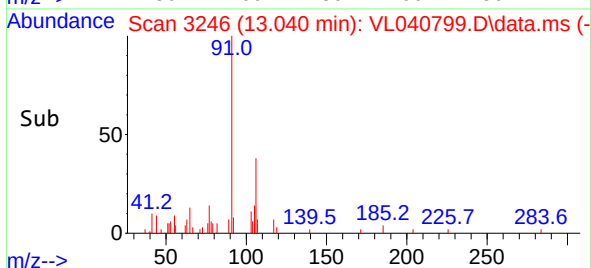
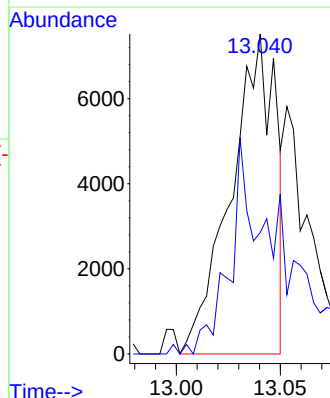
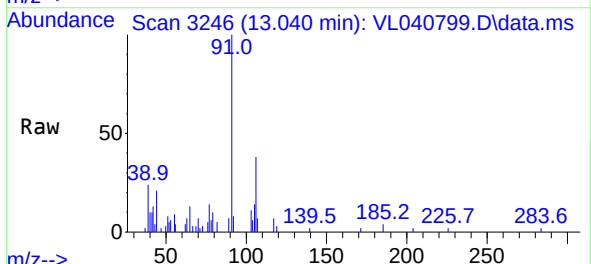
Acq: 25 Oct 2023 14:07

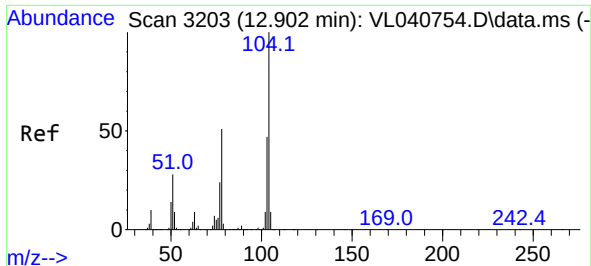
Tgt Ion: 91 Resp: 11295

Ion Ratio Lower Upper

91 100

106 76.2 23.5 70.5#

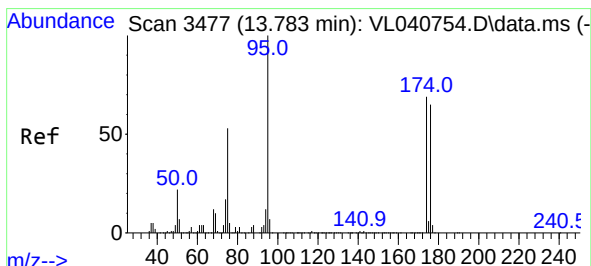
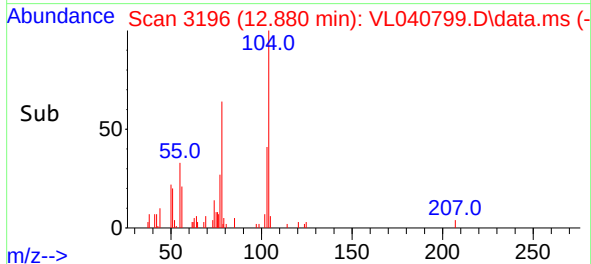
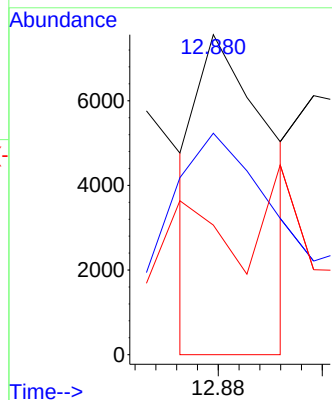
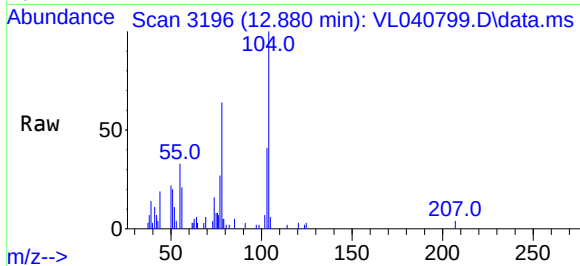




#61
Styrene
Concen: 0.031 ppbv
RT: 12.880 min Scan# 3196
Delta R.T. -0.022 min
Lab File: VL040799.D
Acq: 25 Oct 2023 14:07

Instrument :
MSVOA_L
ClientSampleId :
IA-1

Tgt Ion:104 Resp: 3597
Ion Ratio Lower Upper
104 100
78 244.1 39.8 59.6#
103 0.0 37.5 56.3#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.533 ppbv
RT: 13.757 min Scan# 3469
Delta R.T. -0.026 min
Lab File: VL040799.D
Acq: 25 Oct 2023 14:07

Tgt Ion: 95 Resp: 1656526
Ion Ratio Lower Upper
95 100
174 63.5 54.7 82.1
175 4.7 4.2 6.4

