

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072623\
 Data File : VL040554.D
 Acq On : 27 Jul 2023 00:02
 Operator : SY/MD
 Sample : 03730-03DL 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jul 27 01:53:18 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL071023AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Mon Jul 10 16:32:00 2023
 Response via : Initial Calibration

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

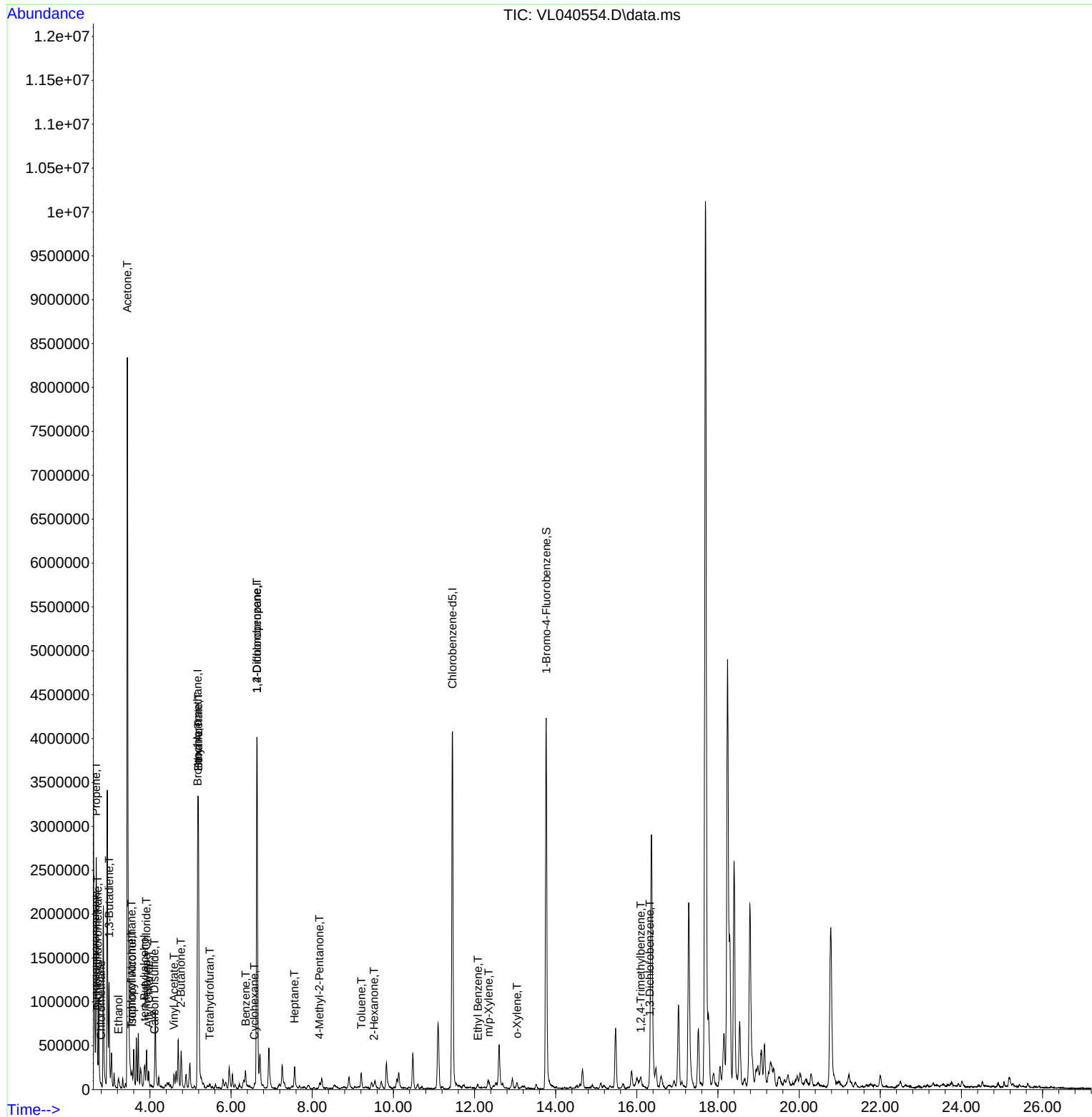
Internal Standards						
1) Bromochloromethane	5.176	49	1150896	10.000	ppbv	-0.03
33) 1,4-Difluorobenzene	6.639	114	3085171	10.000	ppbv	-0.03
55) Chlorobenzene-d5	11.452	117	2753065	10.000	ppbv	-0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.767	95	2154347	9.887	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.900%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.710	85	84832	0.368	ppbv	96
3) Chlorodifluoromethane	2.655	51	11238	0.062	ppbv	96
4) Chloromethane	2.797	50	4970	0.069	ppbv #	63
9) Propene	2.674	41	957632	15.334	ppbv	93
10) Heptane	7.562	43	48844	0.354	ppbv #	25
11) Trichlorofluoromethane	3.549	101	24165	0.130	ppbv	88
13) Ethanol	3.227	45	130832	9.629	ppbv	100
15) Acetone	3.443	43	8681898	65.535	ppbv #	89
16) 1,3-Butadiene	2.993	39	156576	2.343	ppbv #	8
17) tert-Butyl alcohol	3.867	59	174517	1.274	ppbv	100
19) Isopropyl Alcohol	3.559	45	34387	0.452	ppbv #	96
20) Methylene Chloride	3.915	84	132605	2.353	ppbv	93
21) Allyl Chloride	3.970	41	14665	0.194	ppbv #	1
23) Vinyl Acetate	4.591	43	68194	0.540	ppbv #	36
25) Ethyl Acetate	5.195	43	661369	2.622	ppbv #	76
26) Hexane	5.195	57	992078	8.467	ppbv #	40
27) Carbon Disulfide	4.108	76	60989	0.443	ppbv #	85
30) Cyclohexane	6.574	84	5372	0.055	ppbv #	1
34) 2-Butanone	4.768	43	466075	3.057	ppbv	98
36) Benzene	6.359	78	75774	0.305	ppbv #	91
39) 1,2-Dichloropropane	6.639	63	736342	7.705	ppbv #	26
41) Tetrahydrofuran	5.478	42	5772	0.065	ppbv #	64
50) 4-Methyl-2-Pentanone	8.176	43	16485	0.074	ppbv #	37
51) 2-Hexanone	9.520	43	6720	0.043	ppbv #	28
53) Toluene	9.211	91	126328	0.468	ppbv	98
58) Ethyl Benzene	12.082	91	34058	0.099	ppbv	89
59) m/p-Xylene	12.349	91	21237	0.069	ppbv #	31
60) o-Xylene	13.050	91	45241	0.154	ppbv	92
74) 1,2,4-Trimethylbenzene	16.095	105	83403	0.236	ppbv #	66
75) 1,3-Dichlorobenzene	16.317	146	52792	0.246	ppbv #	65

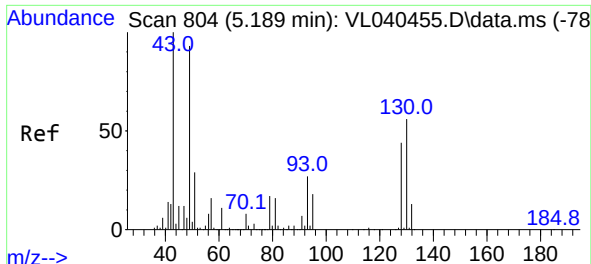
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072623\
Data File : VL040554.D
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Instrument :
MSVOA_L
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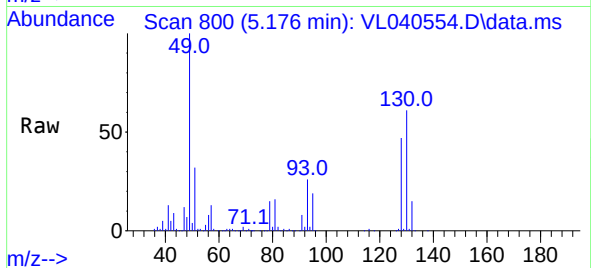
Quant Time: Jul 27 01:53:18 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL071023AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
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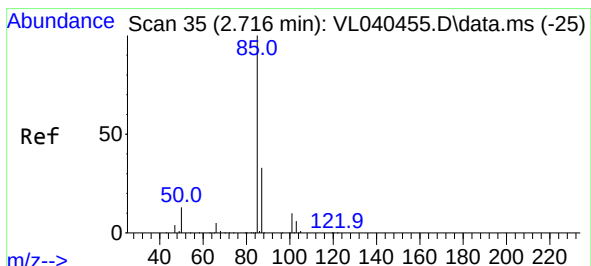
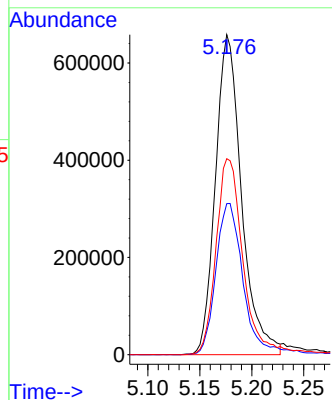
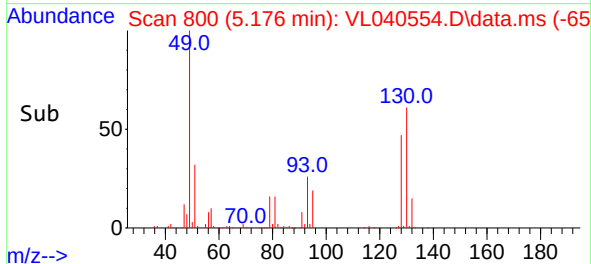


#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.176 min Scan# 80
Delta R.T. -0.026 min
Lab File: VL040554.D
Acq: 27 Jul 2023 00:02

Instrument :
MSVOA_L
ClientSampleId :

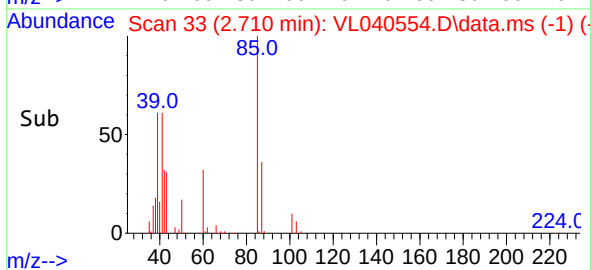
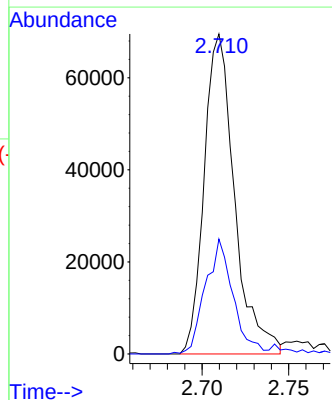
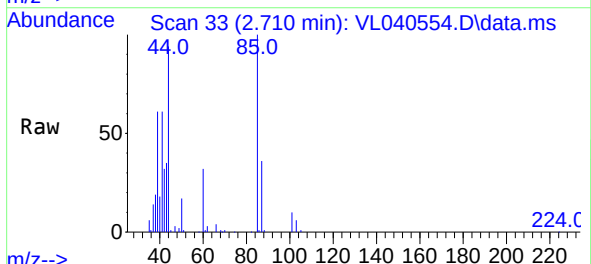


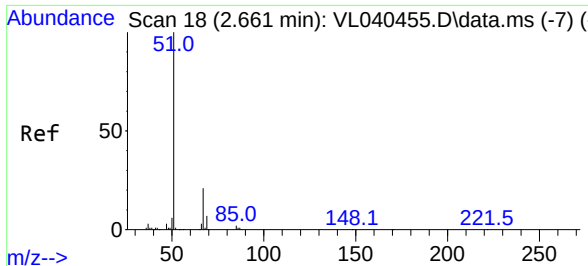
Tgt Ion: 49 Resp: 1150896
Ion Ratio Lower Upper
49 100
128 50.1 25.1 75.4
130 64.5 31.6 94.7



#2
Dichlorodifluoromethane
Concen: 0.368 ppbv
RT: 2.710 min Scan# 33
Delta R.T. -0.029 min
Lab File: VL040554.D
Acq: 27 Jul 2023 00:02

Tgt Ion: 85 Resp: 84832
Ion Ratio Lower Upper
85 100
87 35.6 26.8 40.2

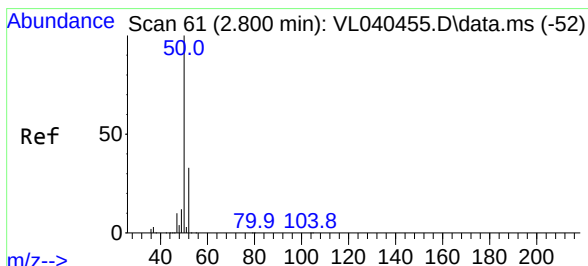
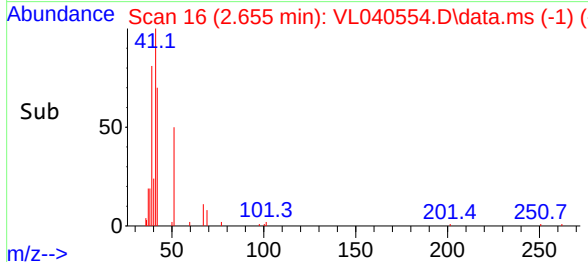
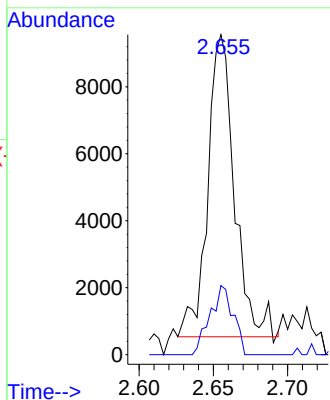
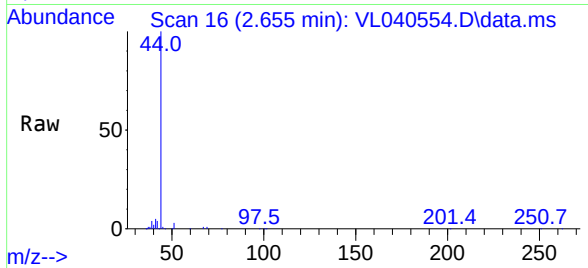




#3
Chlorodifluoromethane
Concen: 0.062 ppbv
RT: 2.655 min Scan# 11
Delta R.T. -0.029 min
Lab File: VL040554.D
Acq: 27 Jul 2023 00:02

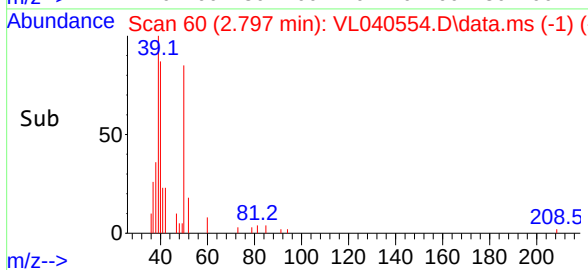
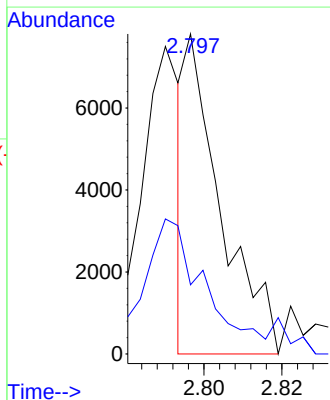
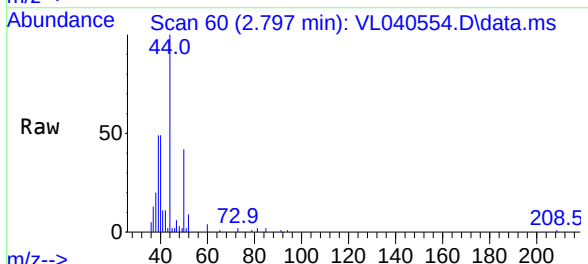
Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 51 Resp: 11238
Ion Ratio Lower Upper
51 100
67 19.9 14.6 21.8

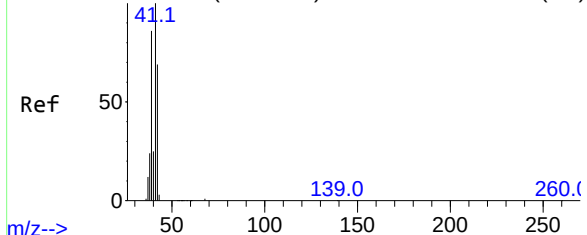


#4
Chloromethane
Concen: 0.069 ppbv
RT: 2.797 min Scan# 60
Delta R.T. -0.026 min
Lab File: VL040554.D
Acq: 27 Jul 2023 00:02

Tgt Ion: 50 Resp: 4970
Ion Ratio Lower Upper
50 100
52 10.3 24.4 36.6#



Abundance Scan 23 (2.677 min): VL040455.D\data.ms (-15)

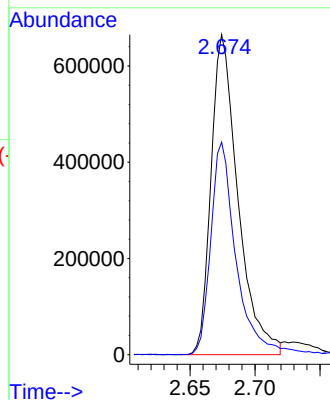
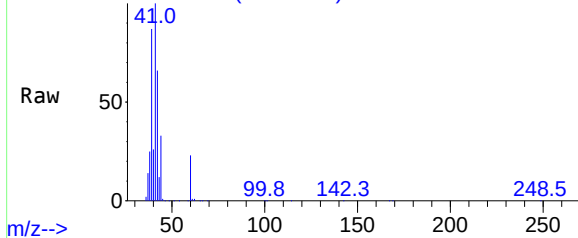


#9
Propene
Concen: 15.334 ppbv
RT: 2.674 min Scan# 21
Delta R.T. -0.029 min
Lab File: VL040554.D
Acq: 27 Jul 2023 00:02

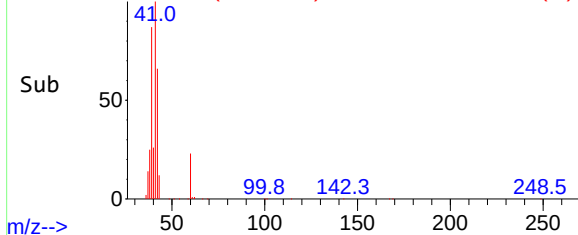
Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 41 Resp: 957632
Ion Ratio Lower Upper
41 100
42 63.3 55.0 82.6

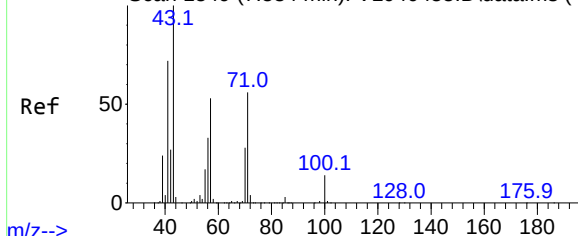
Abundance Scan 22 (2.674 min): VL040554.D\data.ms



Abundance Scan 22 (2.674 min): VL040554.D\data.ms (-1)



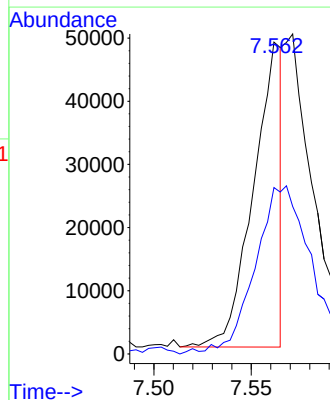
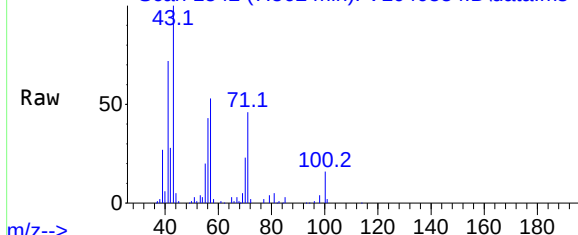
Abundance Scan 1549 (7.584 min): VL040455.D\data.ms (-1)



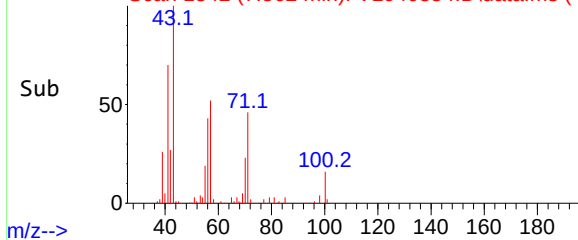
#10
Heptane
Concen: 0.354 ppbv
RT: 7.562 min Scan# 1542
Delta R.T. -0.029 min
Lab File: VL040554.D
Acq: 27 Jul 2023 00:02

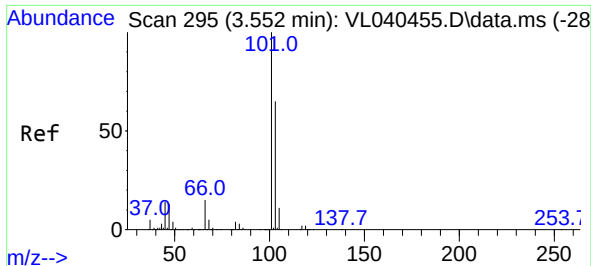
Tgt Ion: 43 Resp: 48844
Ion Ratio Lower Upper
43 100
57 0.0 42.5 63.7#

Abundance Scan 1542 (7.562 min): VL040554.D\data.ms



Abundance Scan 1542 (7.562 min): VL040554.D\data.ms (-1)

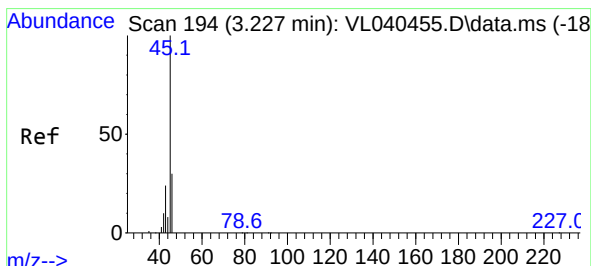
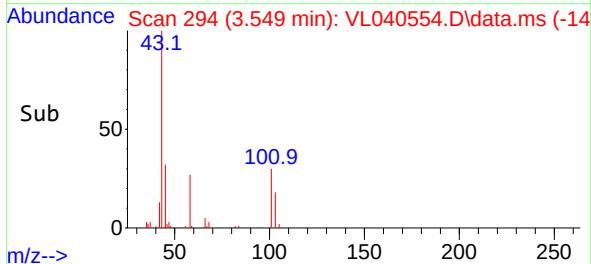
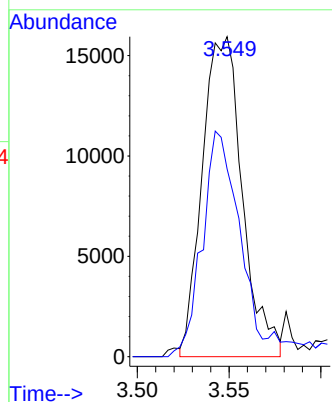
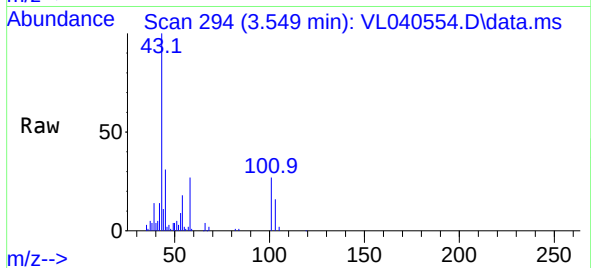




#11
Trichlorofluoromethane
Concen: 0.130 ppbv
RT: 3.549 min Scan# 295
Delta R.T. -0.022 min
Lab File: VL040554.D
Acq: 27 Jul 2023 00:02

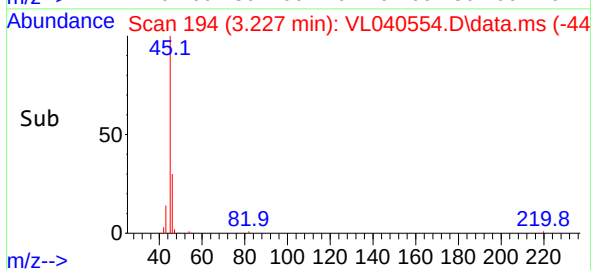
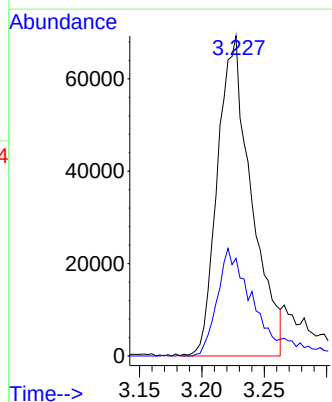
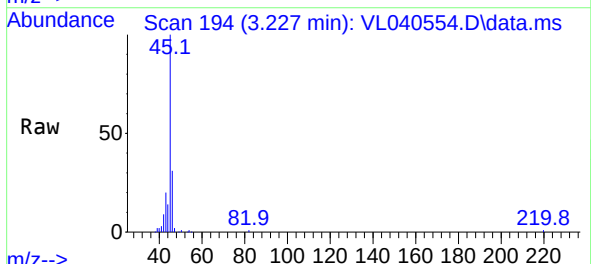
Instrument :
MSVOA_L
ClientSampleId :

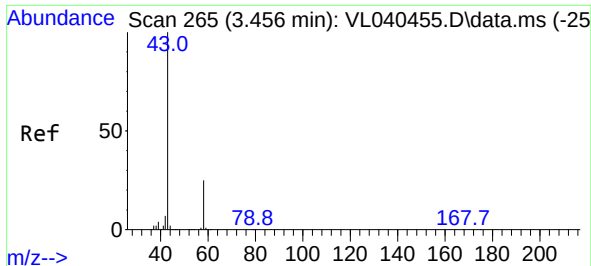
Tgt Ion:101 Resp: 24165
Ion Ratio Lower Upper
101 100
103 57.1 53.4 80.0



#13
Ethanol
Concen: 9.629 ppbv
RT: 3.227 min Scan# 194
Delta R.T. -0.019 min
Lab File: VL040554.D
Acq: 27 Jul 2023 00:02

Tgt Ion: 45 Resp: 130832
Ion Ratio Lower Upper
45 100
46 38.0 15.3 61.1

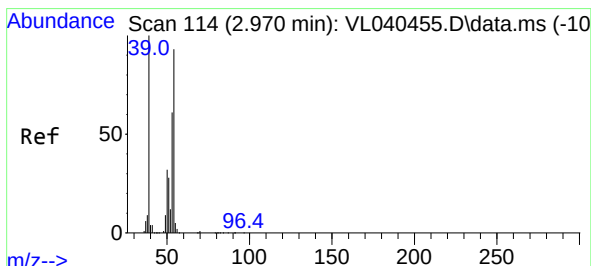
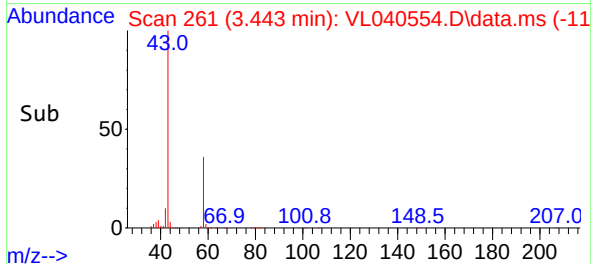
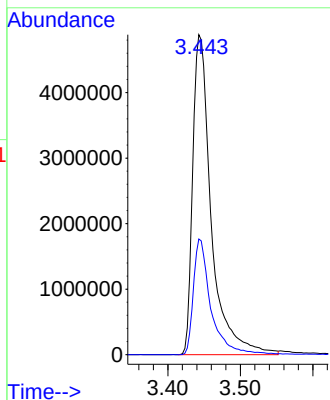
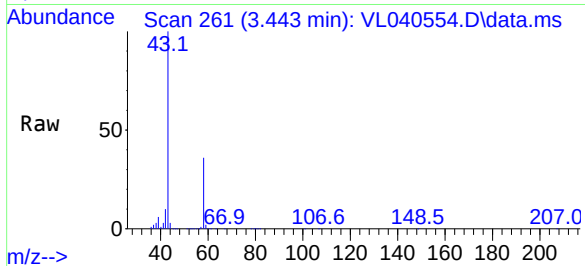




#15
Acetone
Concen: 65.535 ppbv
RT: 3.443 min Scan# 21
Delta R.T. -0.032 min
Lab File: VL040554.D
Acq: 27 Jul 2023 00:02

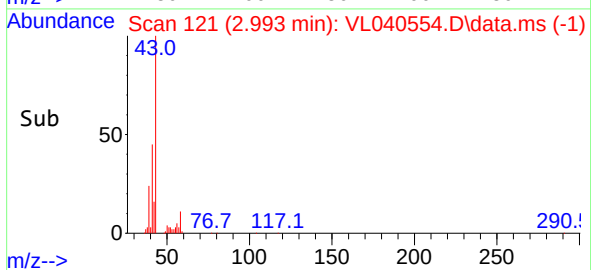
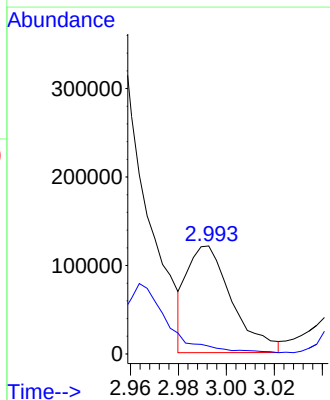
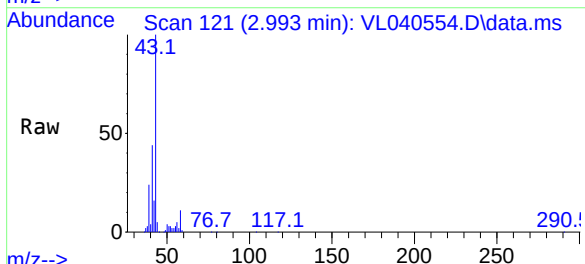
Instrument :
MSVOA_L
ClientSampleId :

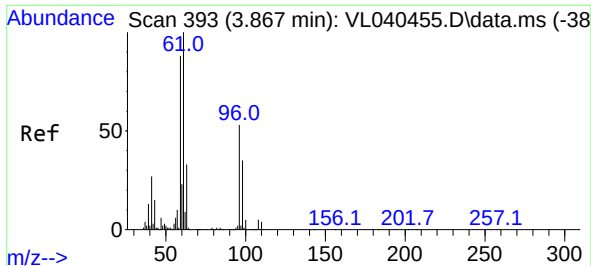
Tgt Ion: 43 Resp: 8681898
Ion Ratio Lower Upper
43 100
58 34.6 22.9 34.3#



#16
1,3-Butadiene
Concen: 2.343 ppbv
RT: 2.993 min Scan# 121
Delta R.T. 0.000 min
Lab File: VL040554.D
Acq: 27 Jul 2023 00:02

Tgt Ion: 39 Resp: 156576
Ion Ratio Lower Upper
39 100
54 0.0 66.6 100.0#

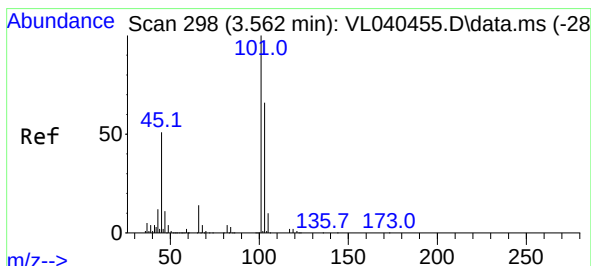
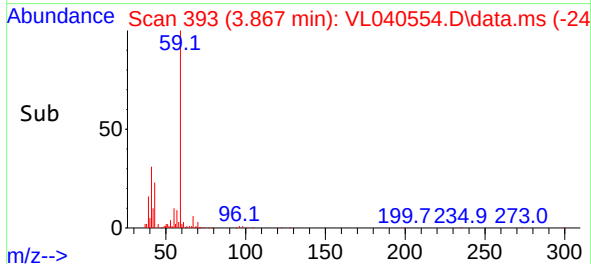
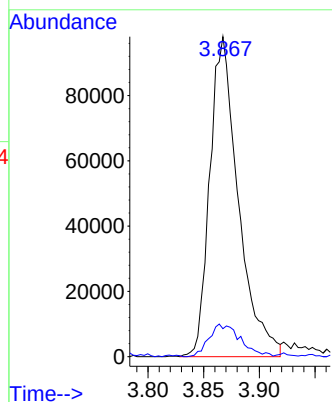
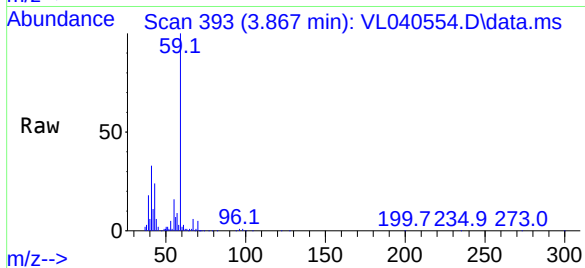




#17
tert-Butyl alcohol
Concen: 1.274 ppbv
RT: 3.867 min Scan# 393
Delta R.T. -0.016 min
Lab File: VL040554.D
Acq: 27 Jul 2023 00:02

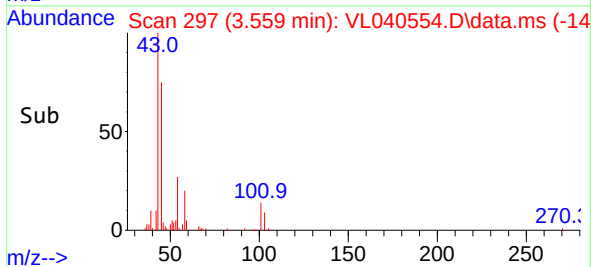
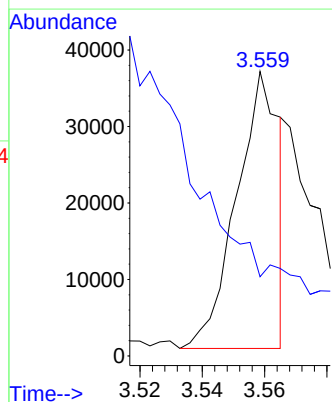
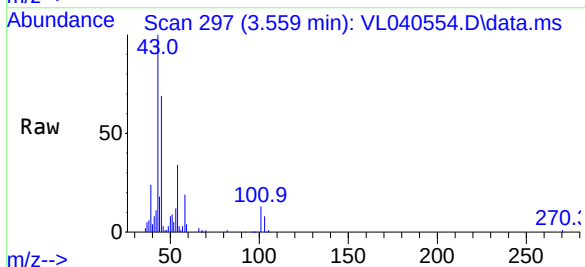
Instrument :
MSVOA_L
ClientSampleId :

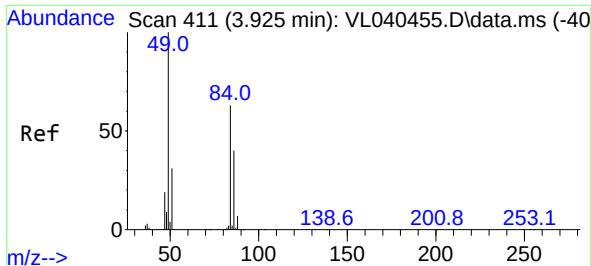
Tgt Ion: 59 Resp: 174517
Ion Ratio Lower Upper
59 100
57 10.9 8.7 13.1



#19
Isopropyl Alcohol
Concen: 0.452 ppbv
RT: 3.559 min Scan# 297
Delta R.T. -0.022 min
Lab File: VL040554.D
Acq: 27 Jul 2023 00:02

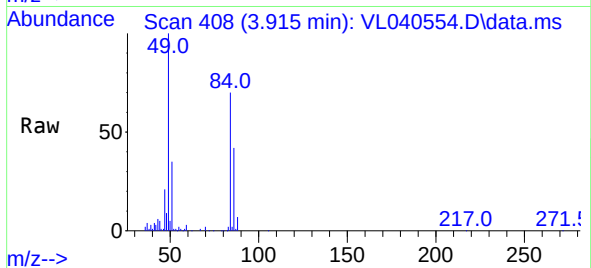
Tgt Ion: 45 Resp: 34387
Ion Ratio Lower Upper
45 100
58 0.0 1.1 1.7#





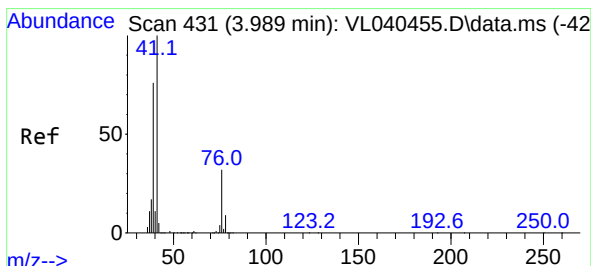
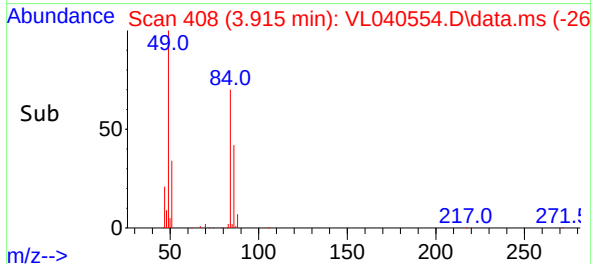
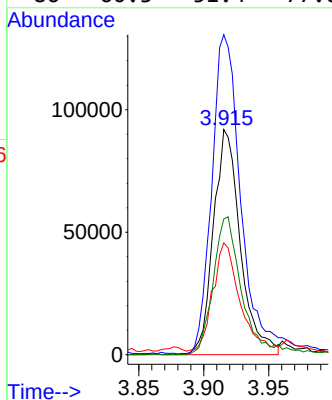
#20
Methylene Chloride
Concen: 2.353 ppbv
RT: 3.915 min Scan# 408
Delta R.T. -0.026 min
Lab File: VL040554.D
Acq: 27 Jul 2023 00:02

Instrument :
MSVOA_L
ClientSampleId :



Tgt Ion: 84 Resp: 132605

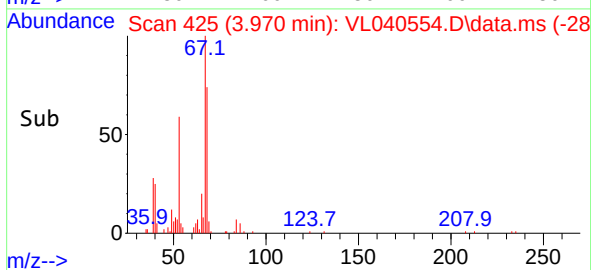
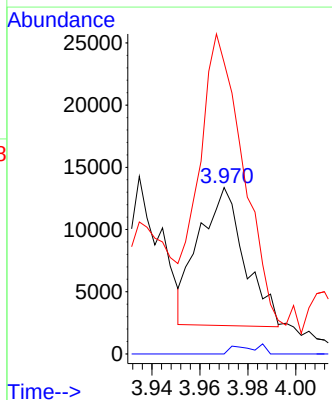
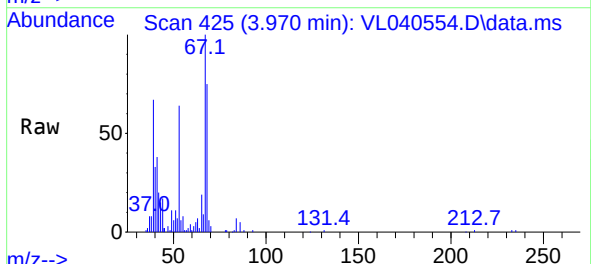
Ion	Ratio	Lower	Upper
84	100		
49	141.8	123.4	185.2
51	46.4	38.3	57.5
86	60.3	51.4	77.0

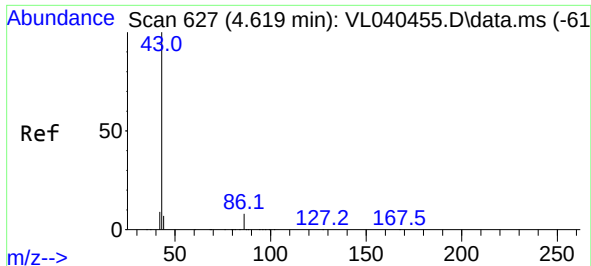


#21
Allyl Chloride
Concen: 0.194 ppbv
RT: 3.970 min Scan# 425
Delta R.T. -0.035 min
Lab File: VL040554.D
Acq: 27 Jul 2023 00:02

Tgt Ion: 41 Resp: 14665

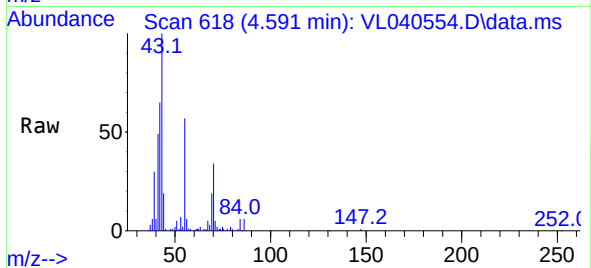
Ion	Ratio	Lower	Upper
41	100		
76	0.0	24.8	37.2#
39	270.0	60.6	91.0#





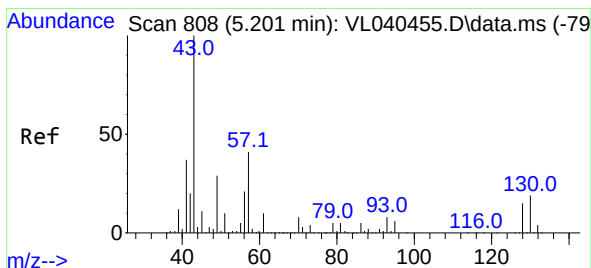
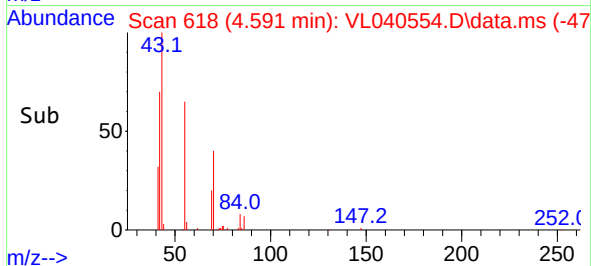
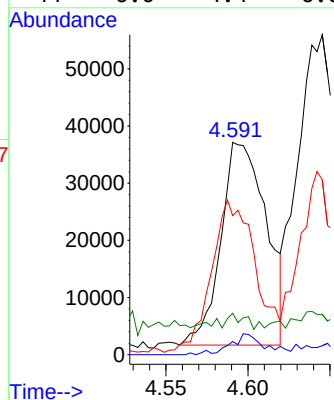
#23
Vinyl Acetate
Concen: 0.540 ppbv
RT: 4.591 min Scan# 61
Delta R.T. -0.045 min
Lab File: VL040554.D
Acq: 27 Jul 2023 00:02

Instrument :
MSVOA_L
ClientSampleId :



Tgt Ion: 43 Resp: 68194

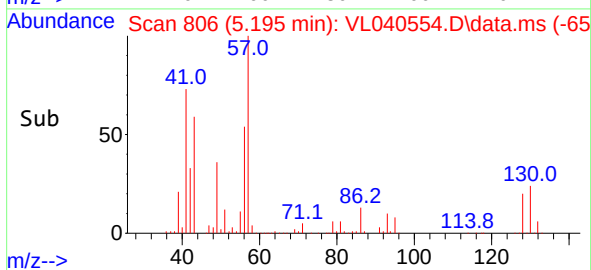
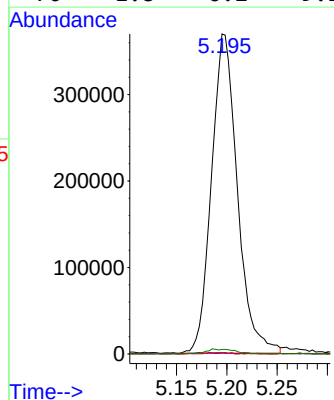
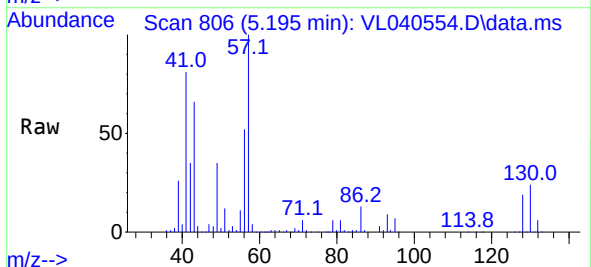
Ion	Ratio	Lower	Upper
43	100		
86	6.5	5.6	8.4
42	63.5	7.4	11.2#
44	6.0	4.4	6.6

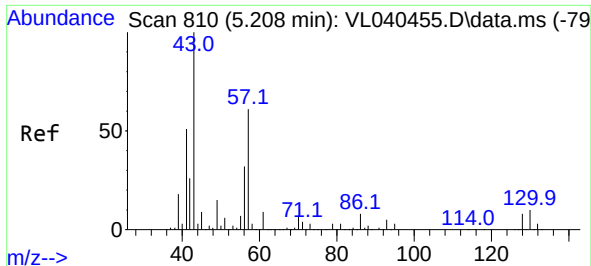


#25
Ethyl Acetate
Concen: 2.622 ppbv
RT: 5.195 min Scan# 806
Delta R.T. -0.016 min
Lab File: VL040554.D
Acq: 27 Jul 2023 00:02

Tgt Ion: 43 Resp: 661369

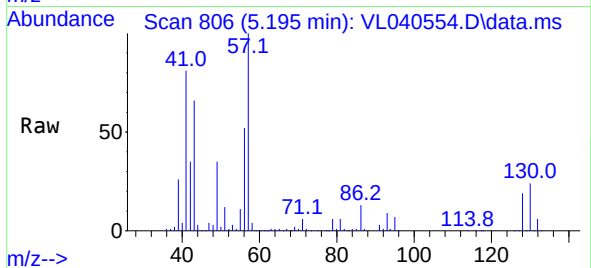
Ion	Ratio	Lower	Upper
43	100		
45	0.6	8.2	12.4#
61	0.3	8.3	12.5#
70	1.8	6.2	9.2#





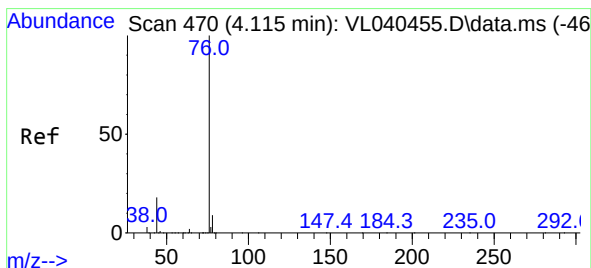
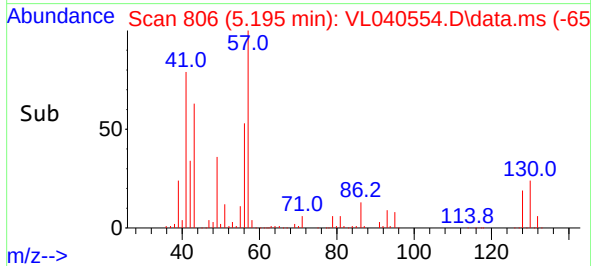
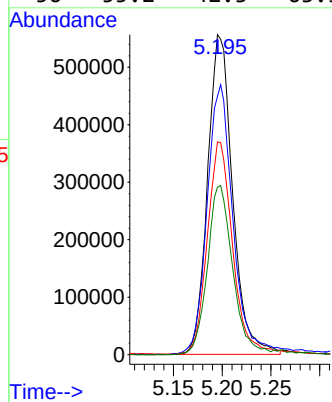
#26
Hexane
Concen: 8.467 ppbv
RT: 5.195 min Scan# 80
Delta R.T. -0.026 min
Lab File: VL040554.D
Acq: 27 Jul 2023 00:02

Instrument :
MSVOA_L
ClientSampleId :



Tgt Ion: 57 Resp: 992078

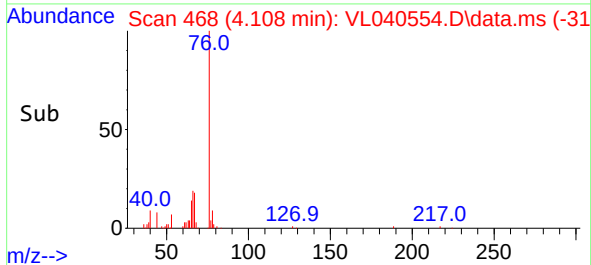
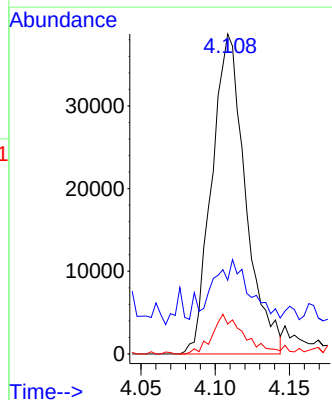
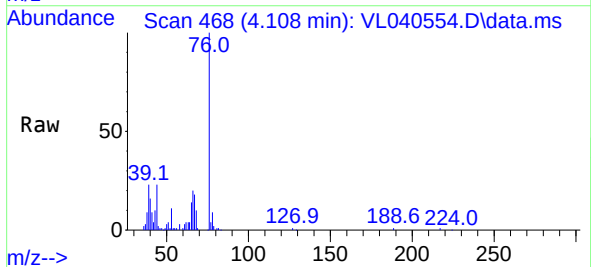
Ion	Ratio	Lower	Upper
57	100		
41	89.3	69.5	104.3
43	67.5	177.1	265.7#
56	55.2	42.3	63.5

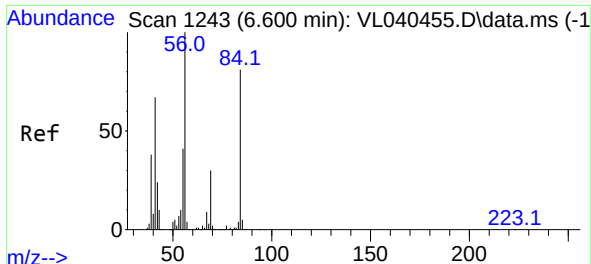


#27
Carbon Disulfide
Concen: 0.443 ppbv
RT: 4.108 min Scan# 468
Delta R.T. -0.022 min
Lab File: VL040554.D
Acq: 27 Jul 2023 00:02

Tgt Ion: 76 Resp: 60989

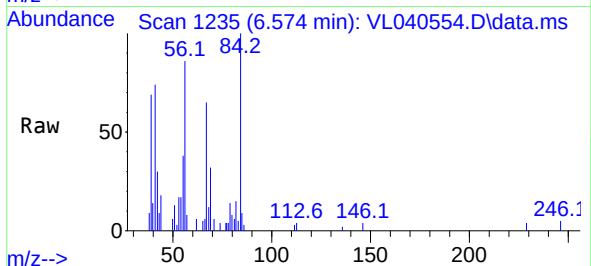
Ion	Ratio	Lower	Upper
76	100		
44	26.6	15.1	22.7#
78	13.7	7.5	11.3#



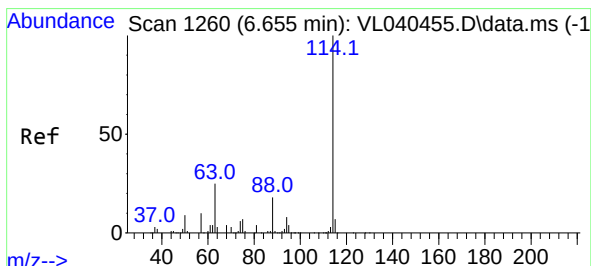
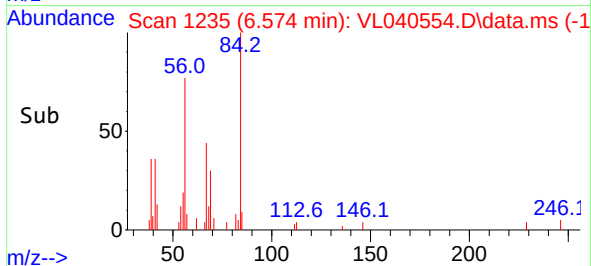
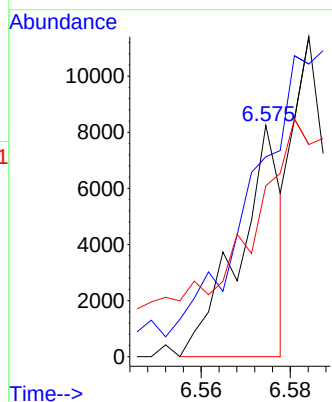


#30
Cyclohexane
Concen: 0.055 ppbv
RT: 6.574 min Scan# 11
Delta R.T. -0.035 min
Lab File: VL040554.D
Acq: 27 Jul 2023 00:02

Instrument :
MSVOA_L
ClientSampleId :

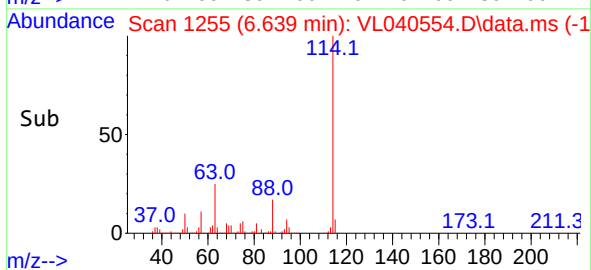
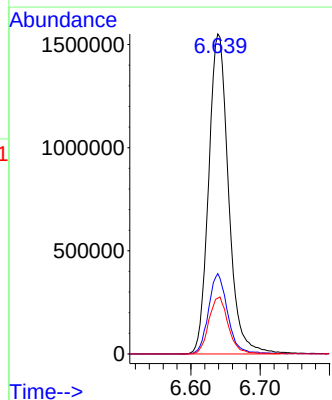
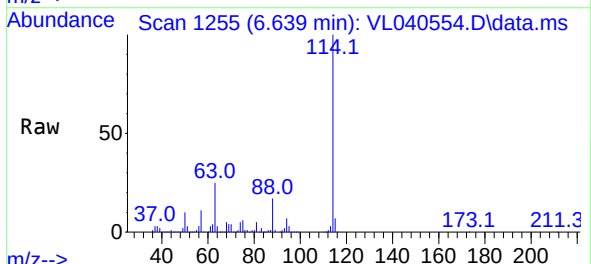


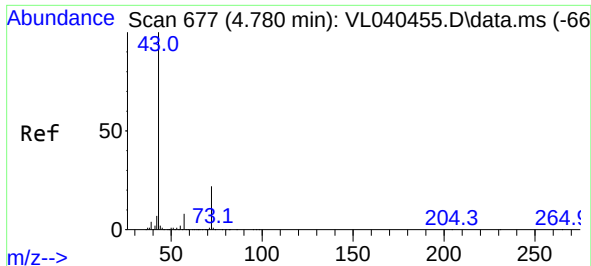
Tgt Ion: 84 Resp: 5372
Ion Ratio Lower Upper
84 100
56 0.0 108.7 163.1#
41 0.0 64.5 96.7#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.639 min Scan# 1255
Delta R.T. -0.026 min
Lab File: VL040554.D
Acq: 27 Jul 2023 00:02

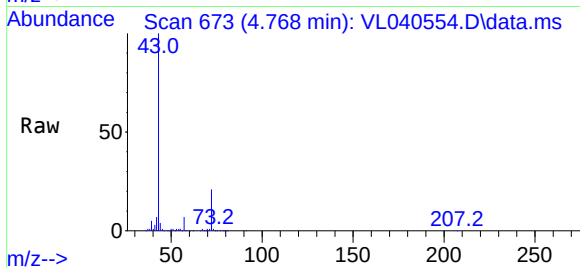
Tgt Ion: 114 Resp: 3085171
Ion Ratio Lower Upper
114 100
63 24.4 19.6 29.4
88 17.6 14.2 21.2



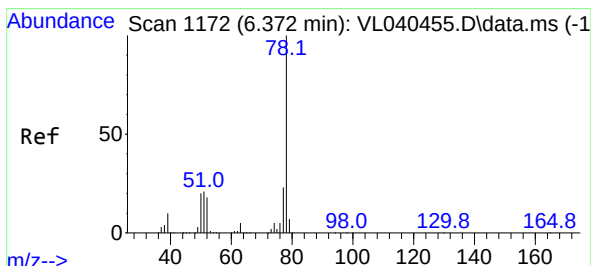
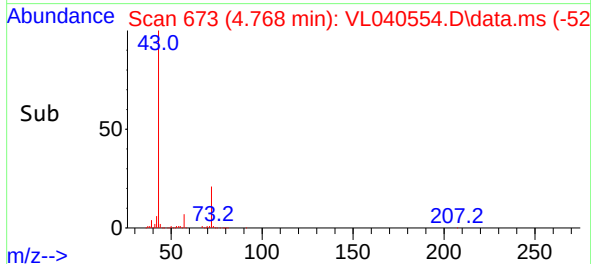
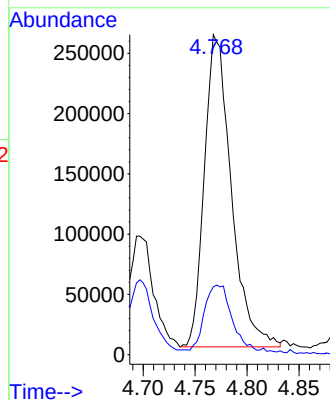


#34
2-Butanone
Concen: 3.057 ppbv
RT: 4.768 min Scan# 61
Delta R.T. -0.026 min
Lab File: VL040554.D
Acq: 27 Jul 2023 00:02

Instrument :
MSVOA_L
ClientSampleId :

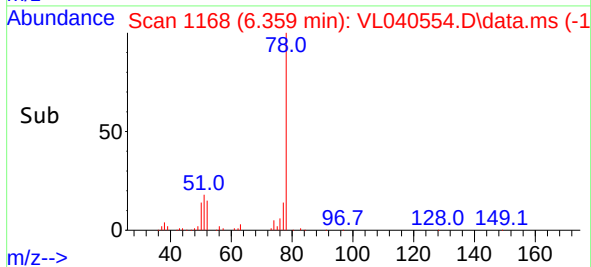
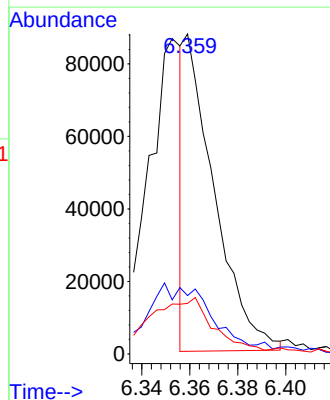
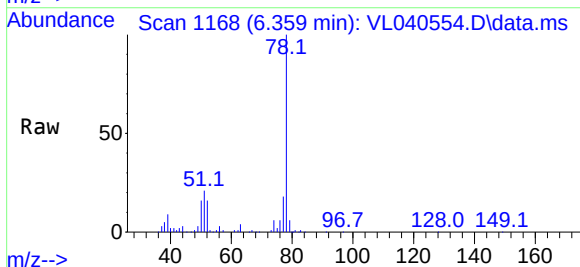


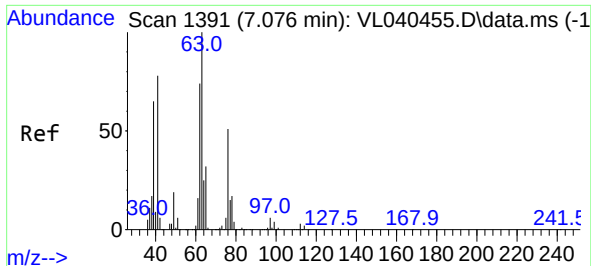
Tgt Ion: 43 Resp: 466075
Ion Ratio Lower Upper
43 100
72 24.7 19.1 28.7



#36
Benzene
Concen: 0.305 ppbv
RT: 6.359 min Scan# 1168
Delta R.T. -0.022 min
Lab File: VL040554.D
Acq: 27 Jul 2023 00:02

Tgt Ion: 78 Resp: 75774
Ion Ratio Lower Upper
78 100
77 16.7 17.4 26.0#
50 14.4 14.4 21.6





#39

1,2-Dichloropropane

Concen: 7.705 ppbv

RT: 6.639 min Scan# 1

Delta R.T. -0.444 min

Lab File: VL040554.D

Acq: 27 Jul 2023 00:02

Instrument :

MSVOA_L

ClientSampleId :

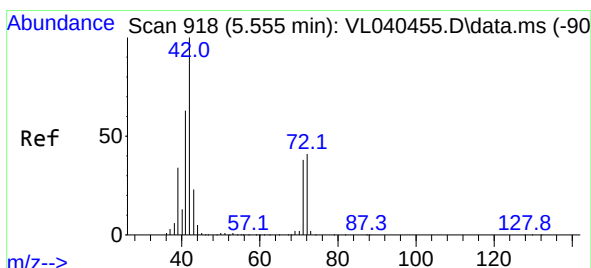
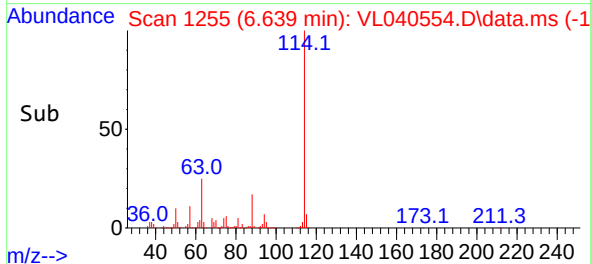
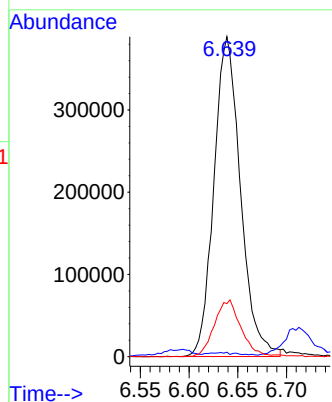
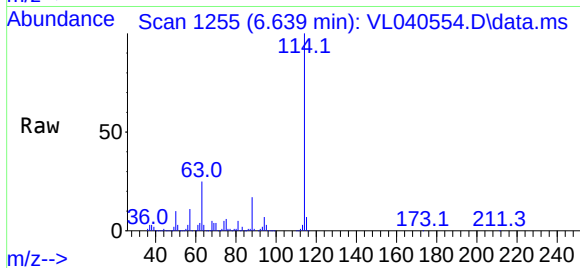
Tgt Ion: 63 Resp: 736342

Ion Ratio Lower Upper

63 100

41 0.0 54.3 81.5#

62 16.6 55.6 83.4#



#41

Tetrahydrofuran

Concen: 0.065 ppbv

RT: 5.478 min Scan# 894

Delta R.T. -0.087 min

Lab File: VL040554.D

Acq: 27 Jul 2023 00:02

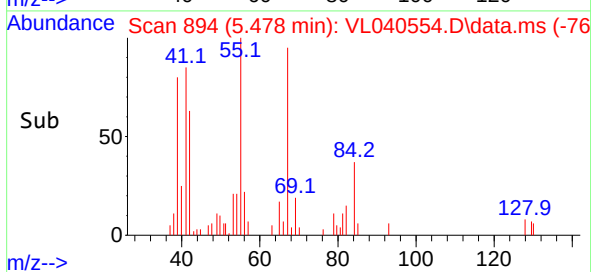
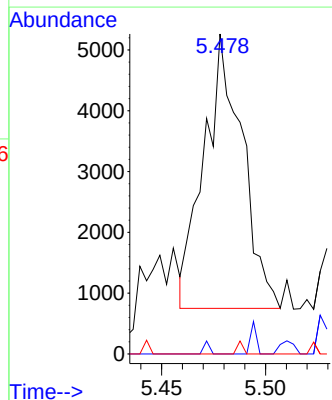
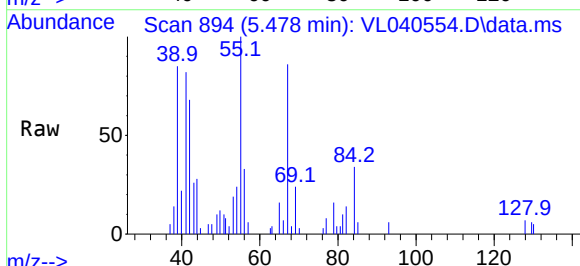
Tgt Ion: 42 Resp: 5772

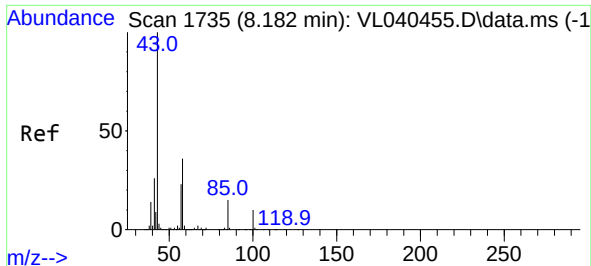
Ion Ratio Lower Upper

42 100

72 37.8 33.8 50.8

71 0.0 33.0 49.6#





#50

4-Methyl-2-Pentanone

Concen: 0.074 ppbv

RT: 8.176 min Scan# 1

Delta R.T. -0.016 min

Lab File: VL040554.D

Acq: 27 Jul 2023 00:02

Instrument :

MSVOA_L

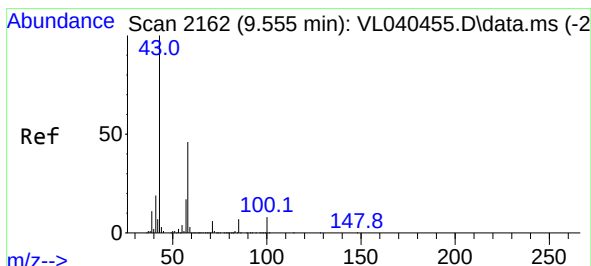
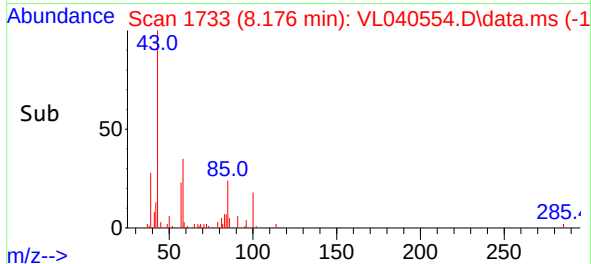
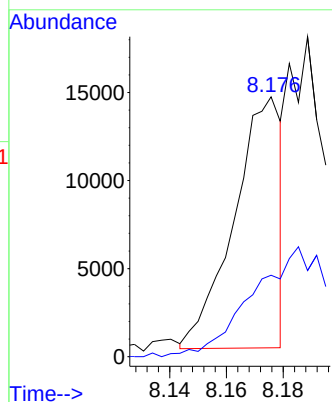
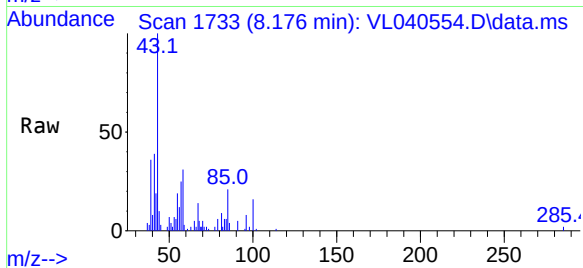
ClientSampleId :

Tgt Ion: 43 Resp: 16485

Ion Ratio Lower Upper

43 100

58 0.0 30.2 45.2#



#51

2-Hexanone

Concen: 0.043 ppbv

RT: 9.520 min Scan# 2151

Delta R.T. -0.041 min

Lab File: VL040554.D

Acq: 27 Jul 2023 00:02

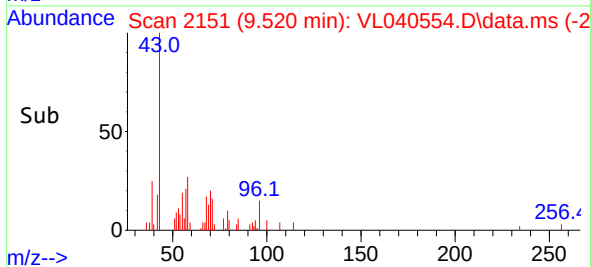
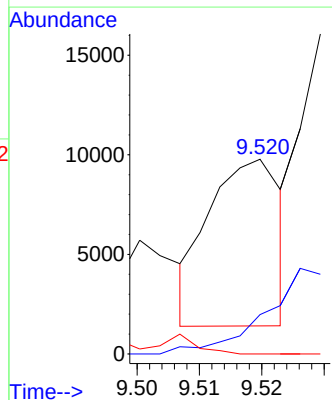
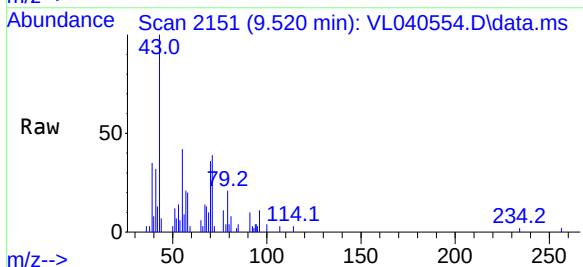
Tgt Ion: 43 Resp: 6720

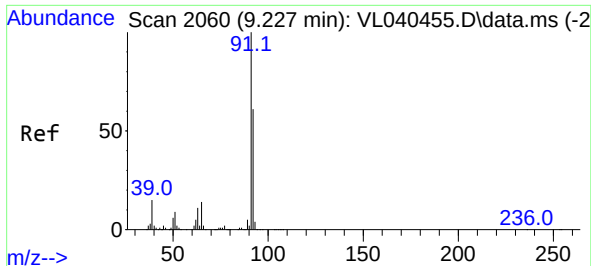
Ion Ratio Lower Upper

43 100

58 0.0 39.7 59.5#

98 0.0 0.3 0.5#

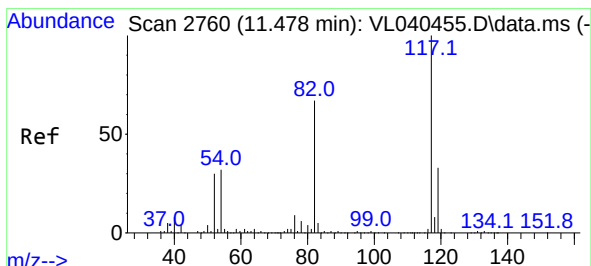
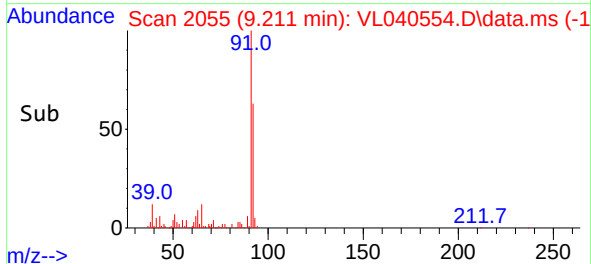
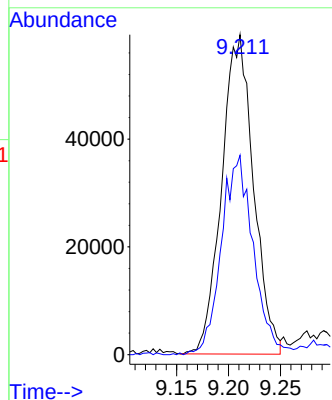
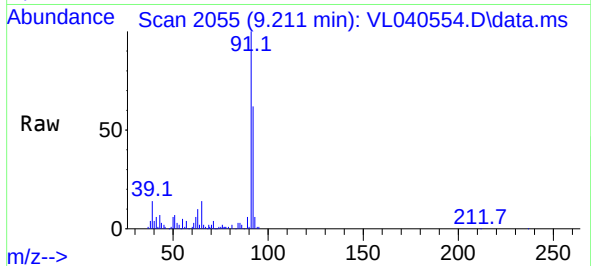




#53
Toluene
Concen: 0.468 ppbv
RT: 9.211 min Scan# 2060
Delta R.T. -0.019 min
Lab File: VL040554.D
Acq: 27 Jul 2023 00:02

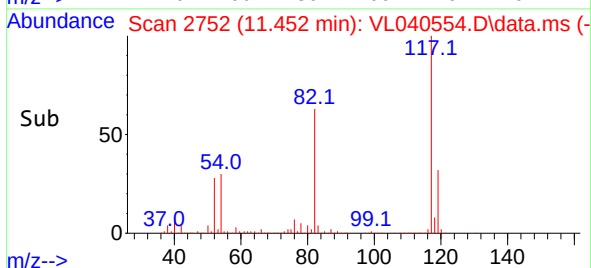
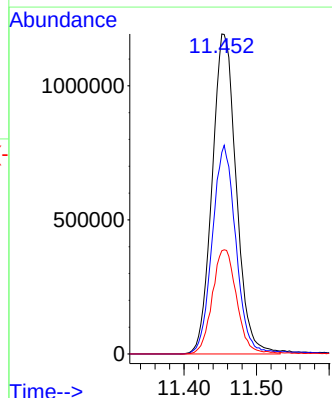
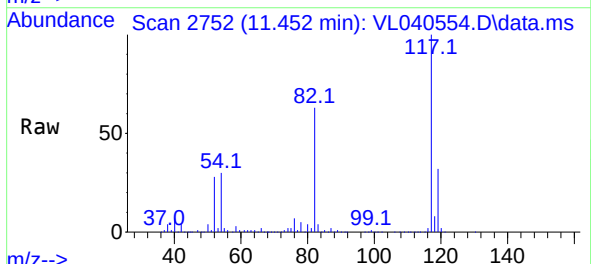
Instrument :
MSVOA_L
ClientSampleId :

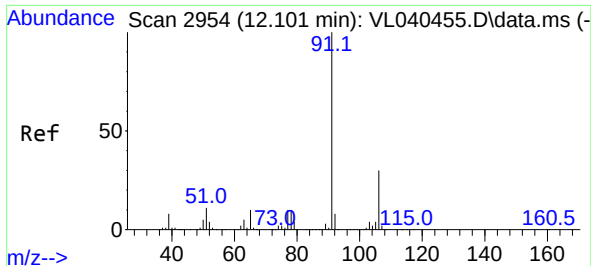
Tgt Ion: 91 Resp: 126328
Ion Ratio Lower Upper
91 100
92 62.7 49.1 73.7



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.452 min Scan# 2752
Delta R.T. -0.026 min
Lab File: VL040554.D
Acq: 27 Jul 2023 00:02

Tgt Ion: 117 Resp: 2753065
Ion Ratio Lower Upper
117 100
82 64.6 50.2 75.4
119 33.3 26.9 40.3





#58

Ethyl Benzene

Concen: 0.099 ppbv

RT: 12.082 min Scan# 2954

Delta R.T. -0.019 min

Lab File: VL040554.D

Acq: 27 Jul 2023 00:02

Instrument :

MSVOA_L

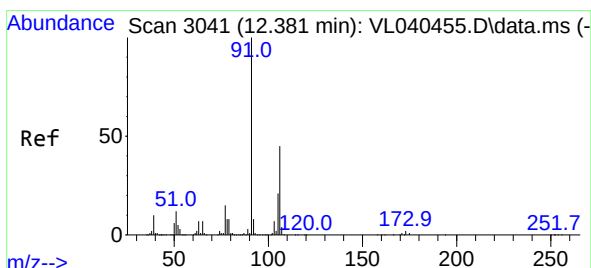
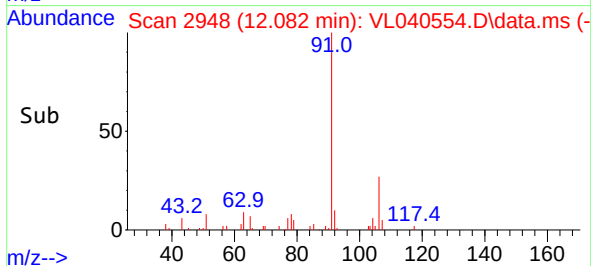
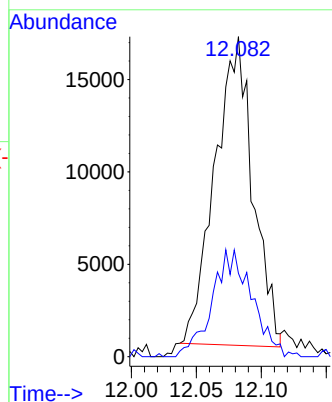
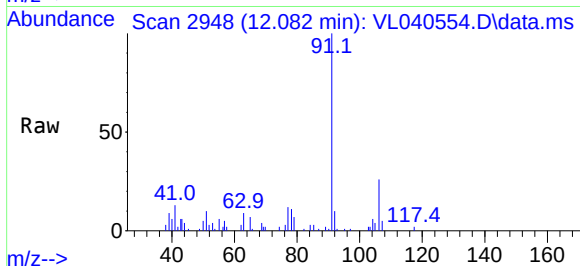
ClientSampleId :

Tgt Ion: 91 Resp: 34058

Ion Ratio Lower Upper

91 100

106 25.4 25.4 38.0



#59

m/p-Xylene

Concen: 0.069 ppbv

RT: 12.349 min Scan# 3031

Delta R.T. -0.035 min

Lab File: VL040554.D

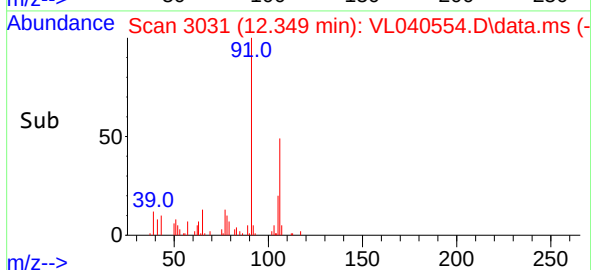
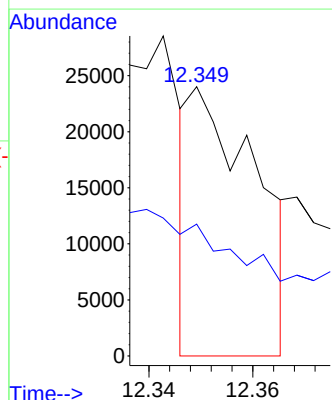
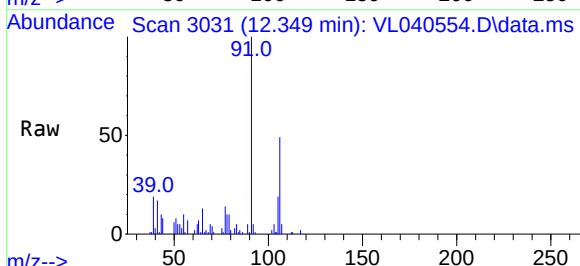
Acq: 27 Jul 2023 00:02

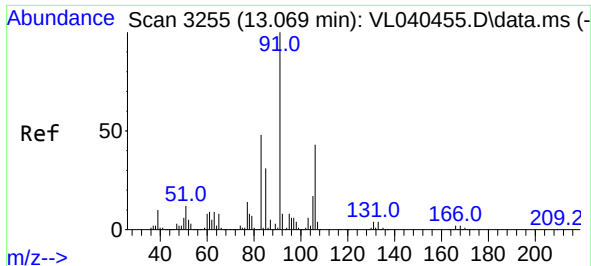
Tgt Ion: 91 Resp: 21237

Ion Ratio Lower Upper

91 100

106 0.0 35.9 53.9#

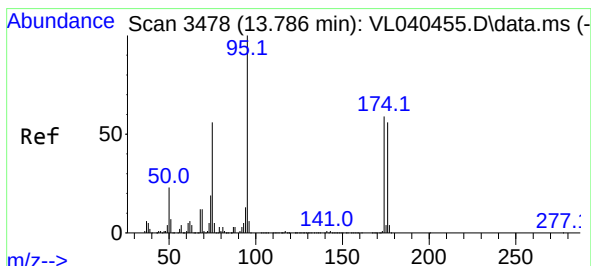
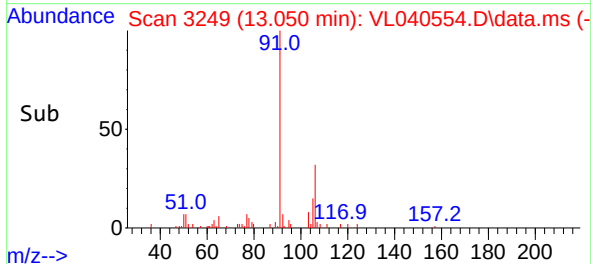
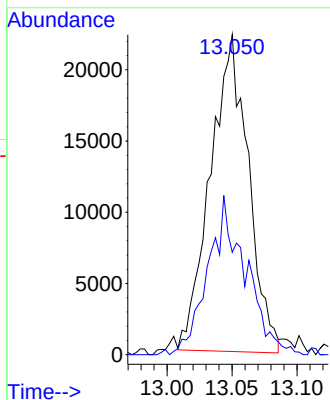
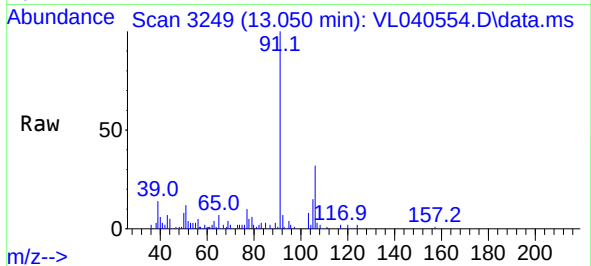




#60
o-Xylene
Concen: 0.154 ppbv
RT: 13.050 min Scan# 31
Delta R.T. -0.019 min
Lab File: VL040554.D
Acq: 27 Jul 2023 00:02

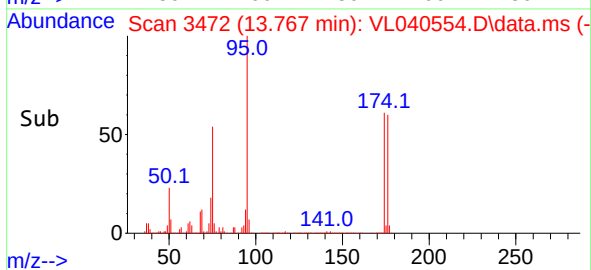
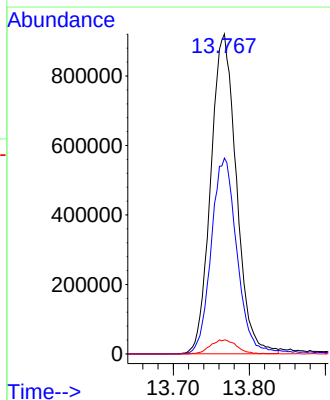
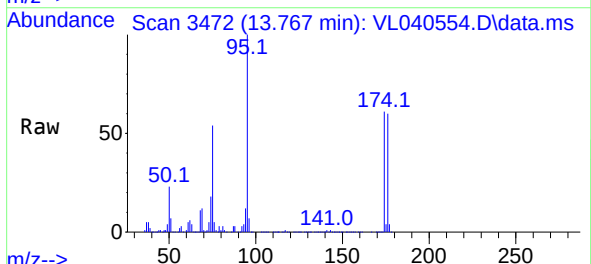
Instrument :
MSVOA_L
ClientSampleId :

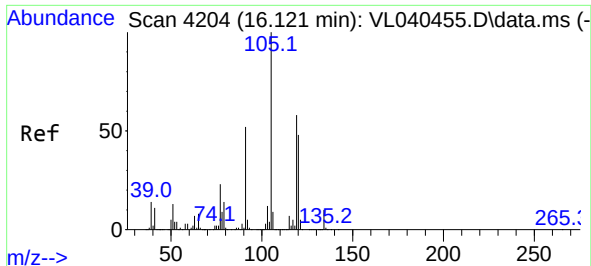
Tgt Ion: 91 Resp: 45241
Ion Ratio Lower Upper
91 100
106 50.3 22.7 68.0



#68
1-Bromo-4-Fluorobenzene
Concen: 9.887 ppbv
RT: 13.767 min Scan# 3472
Delta R.T. -0.016 min
Lab File: VL040554.D
Acq: 27 Jul 2023 00:02

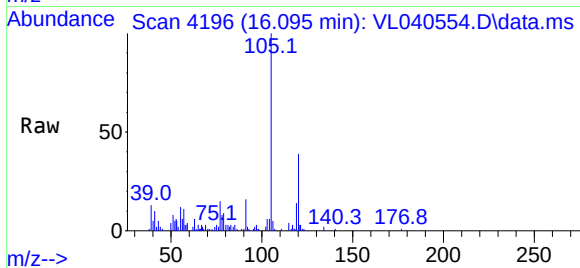
Tgt Ion: 95 Resp: 2154347
Ion Ratio Lower Upper
95 100
174 63.1 50.6 75.8
175 4.7 3.7 5.5



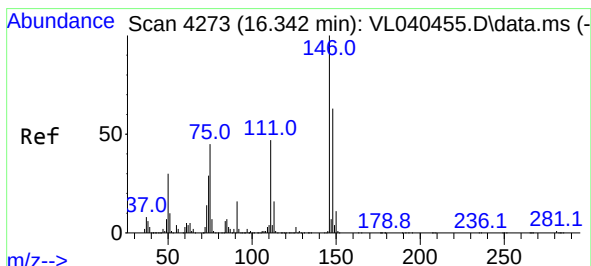
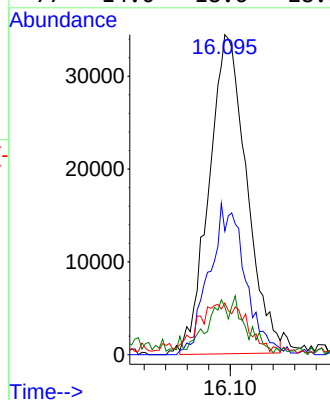
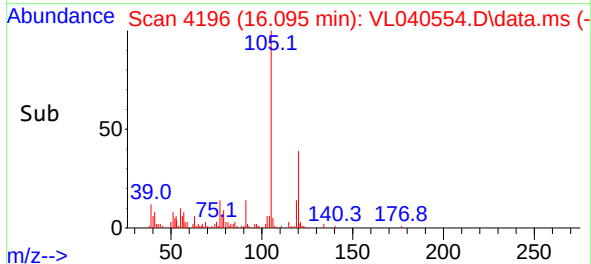


#74
1,2,4-Trimethylbenzene
Concen: 0.236 ppbv
RT: 16.095 min Scan# 4196
Delta R.T. -0.022 min
Lab File: VL040554.D
Acq: 27 Jul 2023 00:02

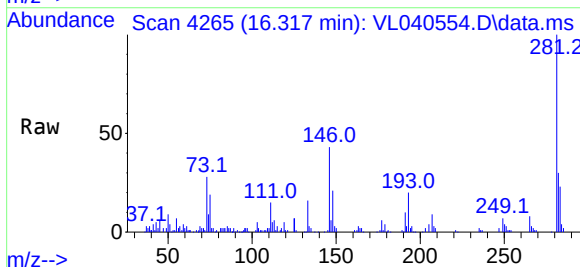
Instrument :
MSVOA_L
ClientSampleId :



Tgt Ion:	105	Resp:	83403
Ion	Ratio	Lower	Upper
105	100		
120	40.4	40.3	60.5
91	15.4	46.8	70.2#
77	14.0	18.6	28.0#



#75
1,3-Dichlorobenzene
Concen: 0.246 ppbv
RT: 16.317 min Scan# 4265
Delta R.T. -0.026 min
Lab File: VL040554.D
Acq: 27 Jul 2023 00:02



Tgt Ion:	146	Resp:	52792
Ion	Ratio	Lower	Upper
146	100		
111	90.0	23.6	71.0#
148	75.8	32.2	96.6

