

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090523\
 Data File : VL040653.D
 Acq On : 5 Sep 2023 18:56
 Operator : SY/MD
 Sample : 04261-01DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Sep 06 02:07:13 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081523AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Aug 16 05:43:50 2023
 Response via : Initial Calibration

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

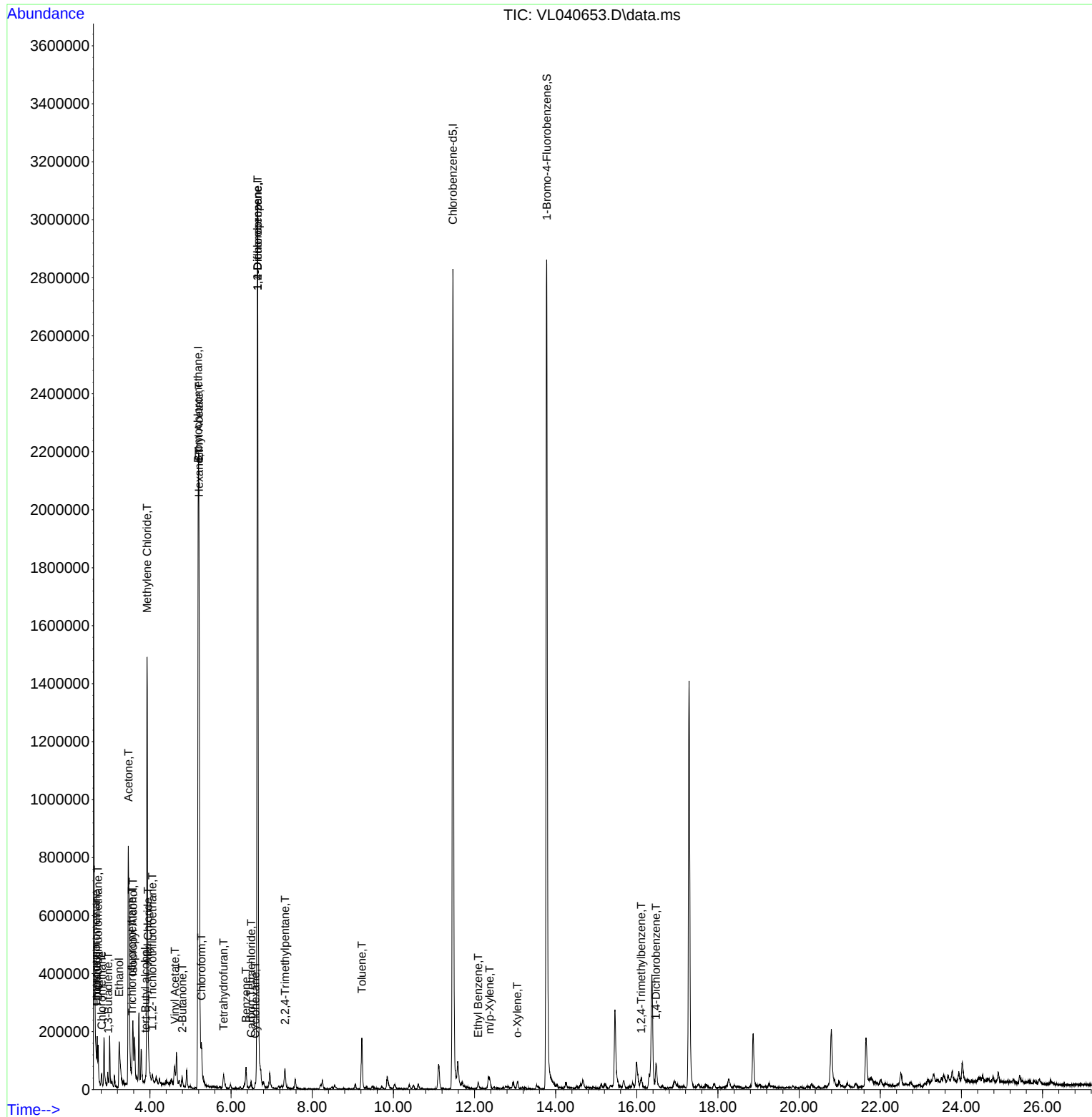
Internal Standards						
1) Bromochloromethane	5.189	49	820163	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.652	114	2178610	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.468	117	1743575	10.000	ppbv	-0.01
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.780	95	1368443	9.869	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.700%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.722	85	77362	0.438	ppbv	95
3) Chlorodifluoromethane	2.671	51	62953	0.467	ppbv #	91
4) Chloromethane	2.812	50	32194	0.613	ppbv	93
9) Propene	2.690	41	17901	0.429	ppbv #	30
11) Trichlorofluoromethane	3.558	101	34605	0.243	ppbv	92
12) 1,1,2-Trichlorotrifluo...	4.060	101	3564	0.034	ppbv #	15
13) Ethanol	3.243	45	222740	19.127	ppbv	93
15) Acetone	3.468	43	1005336	10.021	ppbv	96
16) 1,3-Butadiene	2.970	39	1837	0.037	ppbv #	1
17) tert-Butyl alcohol	3.890	59	3718	0.035	ppbv #	72
19) Isopropyl Alcohol	3.581	45	219841	3.456	ppbv #	1
20) Methylene Chloride	3.931	84	502893	10.258	ppbv	96
21) Allyl Chloride	3.954	41	3063	0.046	ppbv #	1
23) Vinyl Acetate	4.616	43	39106	0.342	ppbv #	48
25) Ethyl Acetate	5.208	43	380349	2.019	ppbv #	78
26) Hexane	5.211	57	566318	6.213	ppbv #	40
29) Chloroform	5.272	83	37025	0.257	ppbv	97
30) Cyclohexane	6.600	84	3652	0.052	ppbv #	1
34) 2-Butanone	4.796	43	18067	0.164	ppbv #	49
35) Carbon Tetrachloride	6.497	117	4364	0.032	ppbv	92
36) Benzene	6.369	78	35221	0.203	ppbv	94
39) 1,2-Dichloropropane	6.652	63	556157	8.434	ppbv #	24
41) Tetrahydrofuran	5.812	42	2862	0.046	ppbv #	37
44) 2,2,4-Trimethylpentane	7.330	57	23023	0.082	ppbv #	1
53) Toluene	9.224	91	120112	0.652	ppbv	100
58) Ethyl Benzene	12.092	91	11231	0.053	ppbv	96
59) m/p-Xylene	12.375	91	9678	0.050	ppbv #	32
60) o-Xylene	13.053	91	9059	0.050	ppbv #	31
74) 1,2,4-Trimethylbenzene	16.105	105	10692	0.050	ppbv #	67
76) 1,4-Dichlorobenzene	16.474	146	20938	0.173	ppbv #	48

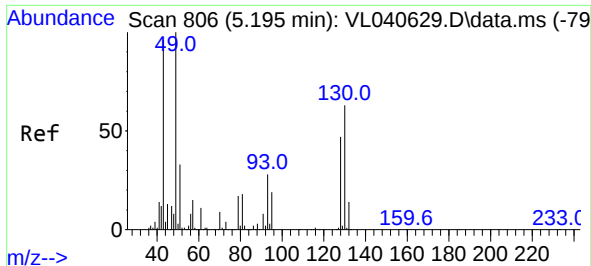
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090523\
Data File : VL040653.D
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Sample : 04261-01DUP
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :

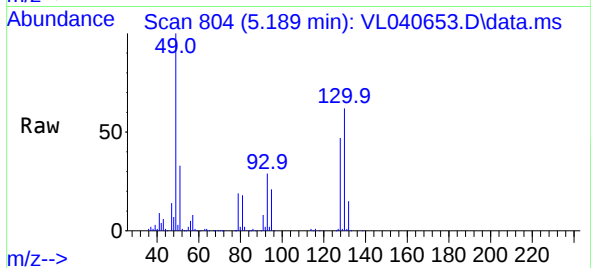
Quant Time: Sep 06 02:07:13 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081523AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
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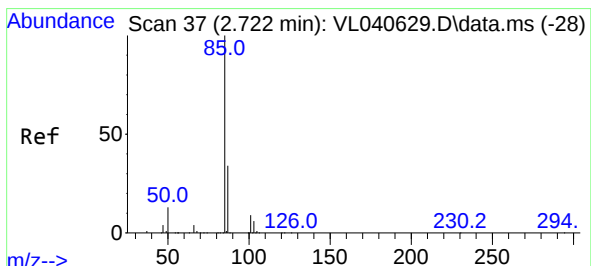
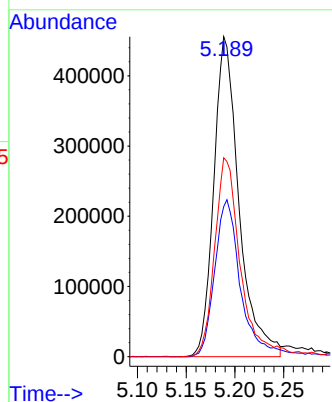
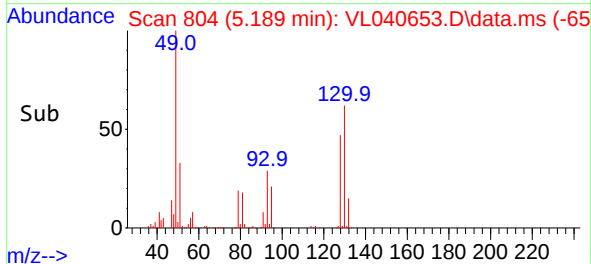


#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.189 min Scan# 804
Delta R.T. -0.006 min
Lab File: VL040653.D
Acq: 5 Sep 2023 18:56

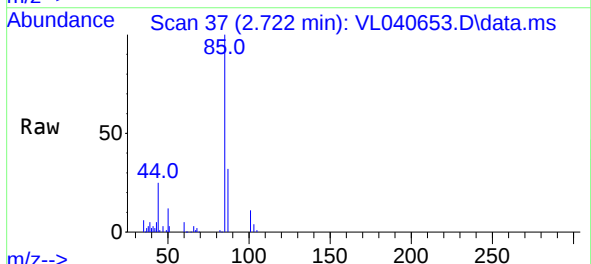
Instrument :
MSVOA_L
ClientSampleId :



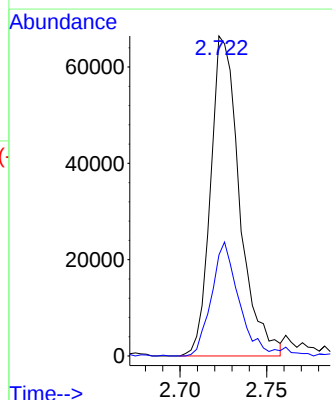
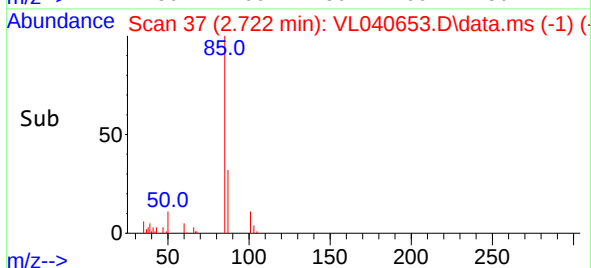
Tgt Ion: 49 Resp: 820163
Ion Ratio Lower Upper
49 100
128 51.4 24.9 74.7
130 65.8 32.2 96.6

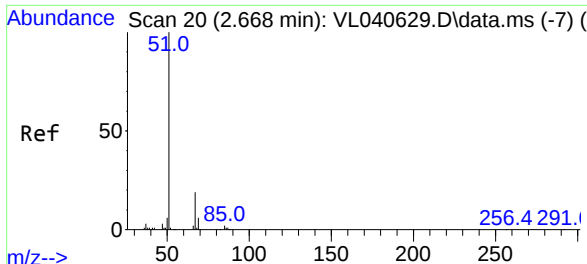


#2
Dichlorodifluoromethane
Concen: 0.438 ppbv
RT: 2.722 min Scan# 37
Delta R.T. -0.000 min
Lab File: VL040653.D
Acq: 5 Sep 2023 18:56



Tgt Ion: 85 Resp: 77362
Ion Ratio Lower Upper
85 100
87 31.6 27.5 41.3

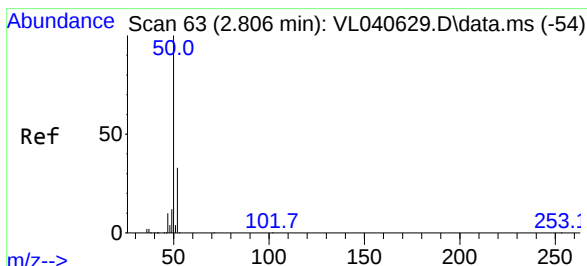
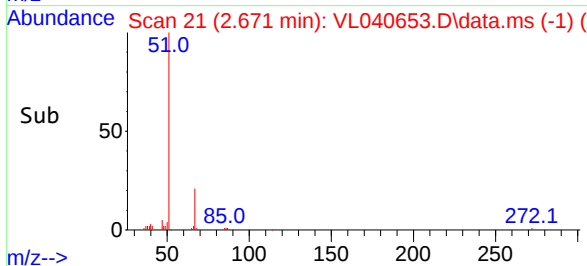
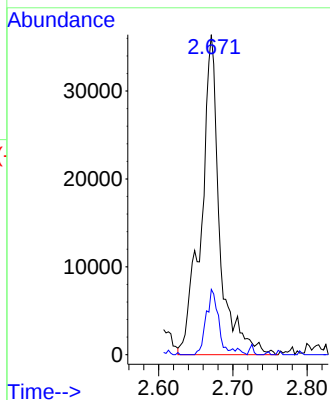
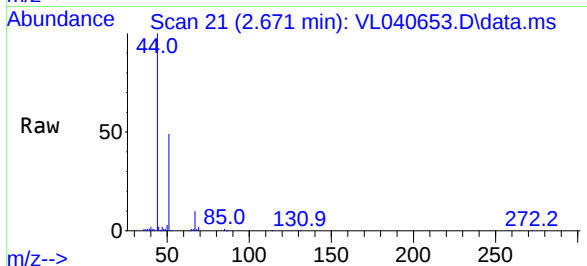




#3
Chlorodifluoromethane
Concen: 0.467 ppbv
RT: 2.671 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL040653.D
Acq: 5 Sep 2023 18:56

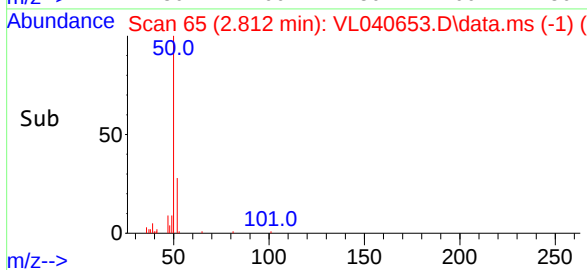
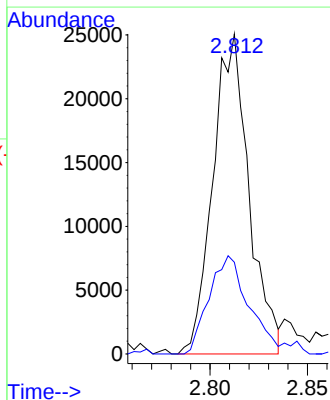
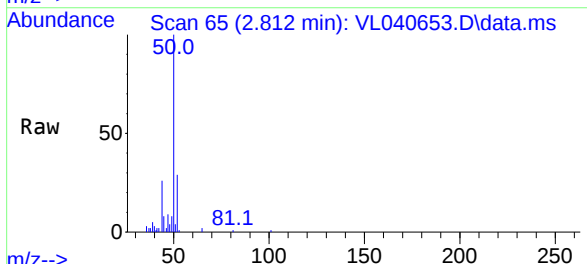
Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 51 Resp: 62953
Ion Ratio Lower Upper
51 100
67 14.9 15.0 22.6#

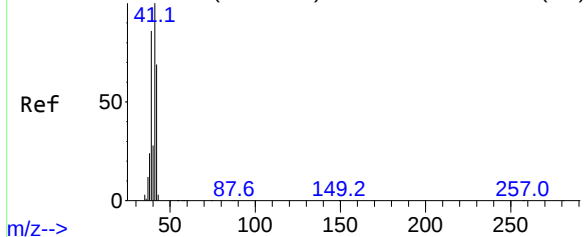


#4
Chloromethane
Concen: 0.613 ppbv
RT: 2.812 min Scan# 65
Delta R.T. 0.006 min
Lab File: VL040653.D
Acq: 5 Sep 2023 18:56

Tgt Ion: 50 Resp: 32194
Ion Ratio Lower Upper
50 100
52 28.6 26.2 39.2



Abundance Scan 26 (2.687 min): VL040629.D\data.ms (-17)



#9

Propene

Concen: 0.429 ppbv

RT: 2.690 min Scan# 21

Delta R.T. 0.003 min

Lab File: VL040653.D

Acq: 5 Sep 2023 18:56

Instrument :

MSVOA_L

ClientSampleId :

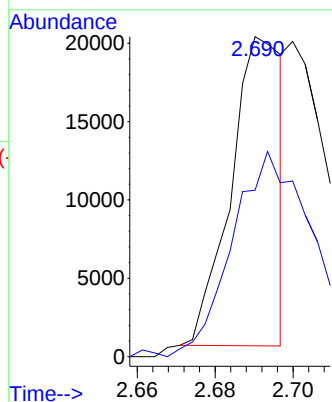
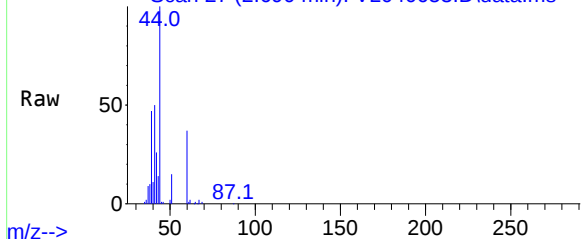
Tgt Ion: 41 Resp: 17901

Ion Ratio Lower Upper

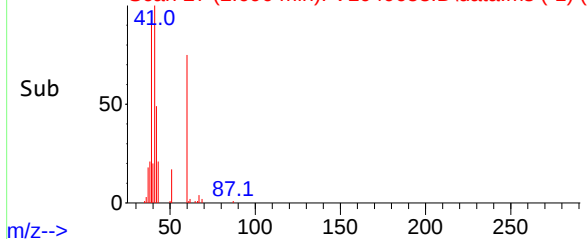
41 100

42 128.2 56.5 84.7#

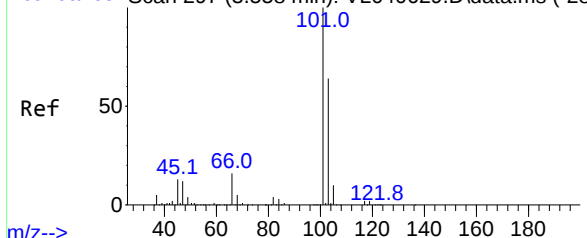
Abundance Scan 27 (2.690 min): VL040653.D\data.ms



Abundance Scan 27 (2.690 min): VL040653.D\data.ms (-1) (-14)



Abundance Scan 297 (3.558 min): VL040629.D\data.ms (-28)



#11

Trichlorofluoromethane

Concen: 0.243 ppbv

RT: 3.558 min Scan# 297

Delta R.T. -0.000 min

Lab File: VL040653.D

Acq: 5 Sep 2023 18:56

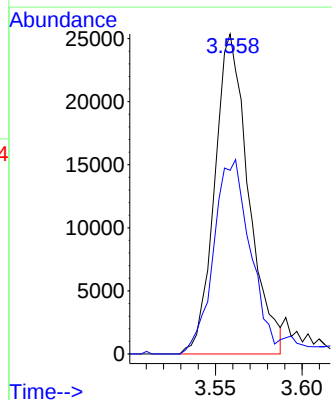
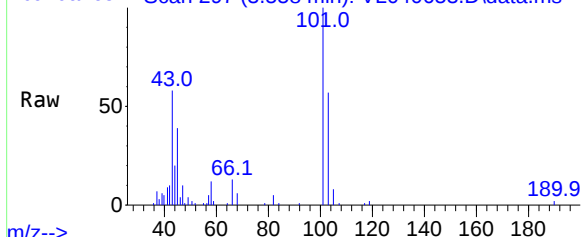
Tgt Ion: 101 Resp: 34605

Ion Ratio Lower Upper

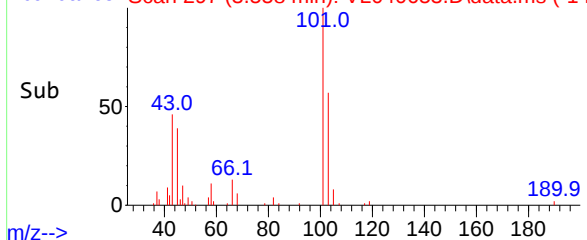
101 100

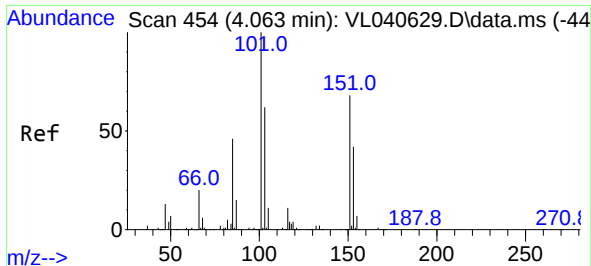
103 57.4 51.1 76.7

Abundance Scan 297 (3.558 min): VL040653.D\data.ms



Abundance Scan 297 (3.558 min): VL040653.D\data.ms (-14)





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.034 ppbv

RT: 4.060 min Scan# 4

Delta R.T. -0.003 min

Lab File: VL040653.D

Acq: 5 Sep 2023 18:56

Instrument :

MSVOA_L

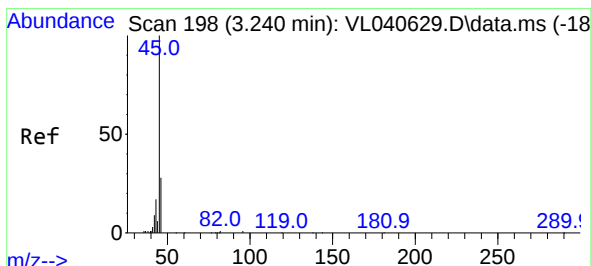
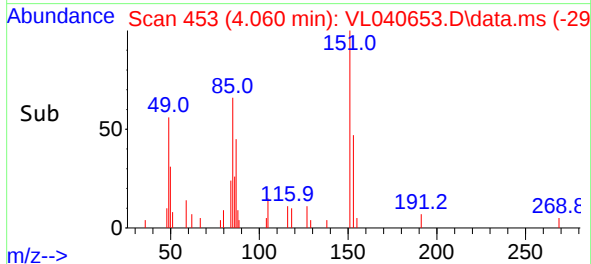
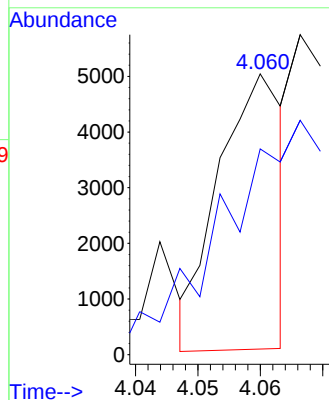
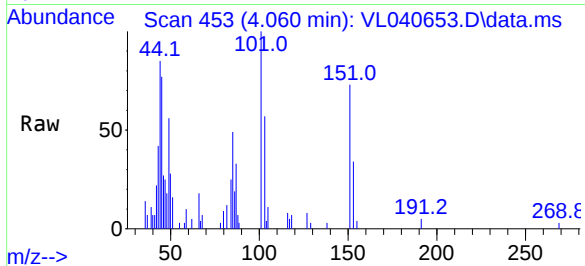
ClientSampleId :

Tgt Ion:101 Resp: 3564

Ion Ratio Lower Upper

101 100

151 0.0 56.2 84.2#



#13

Ethanol

Concen: 19.127 ppbv

RT: 3.243 min Scan# 199

Delta R.T. 0.003 min

Lab File: VL040653.D

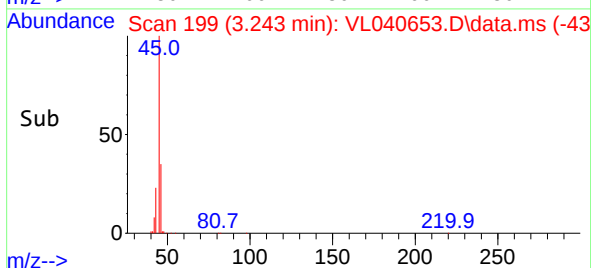
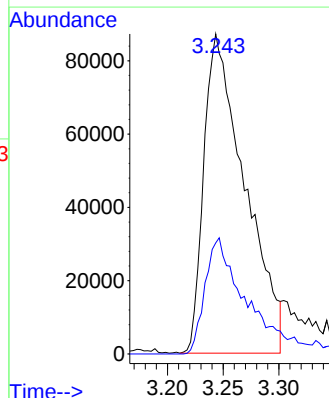
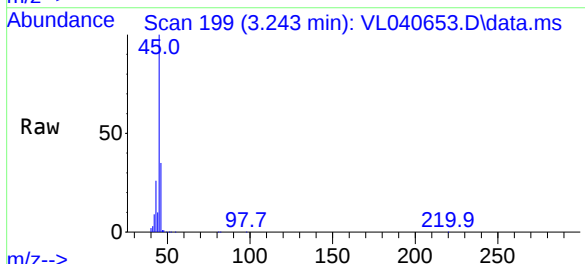
Acq: 5 Sep 2023 18:56

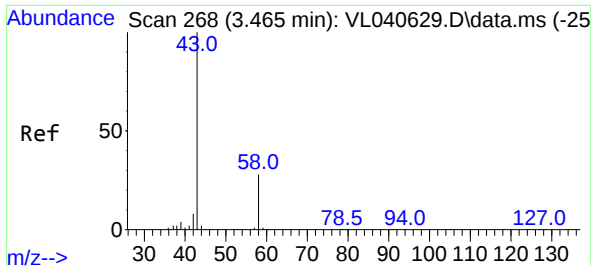
Tgt Ion: 45 Resp: 222740

Ion Ratio Lower Upper

45 100

46 39.7 14.2 56.6

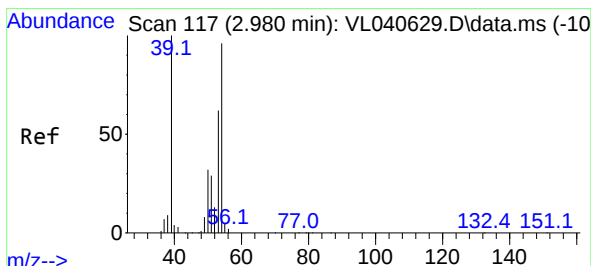
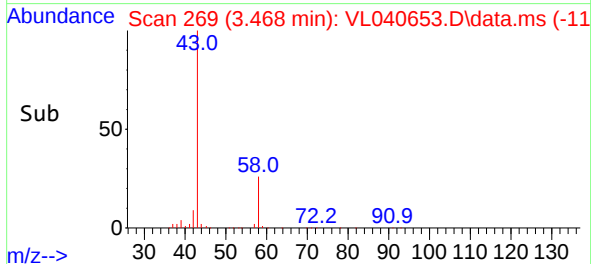
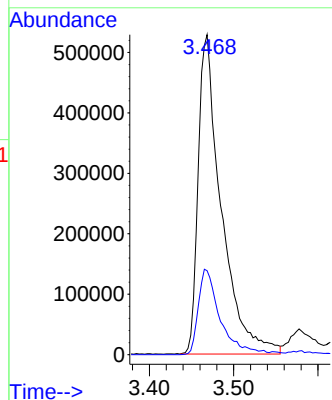
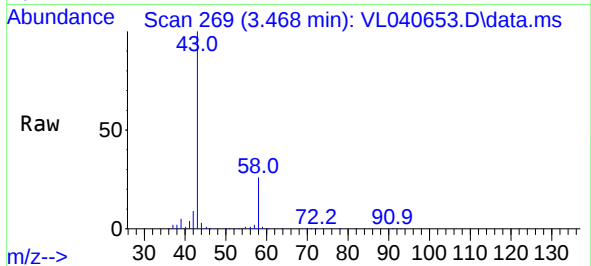




#15
Acetone
Concen: 10.021 ppbv
RT: 3.468 min Scan# 20
Delta R.T. 0.003 min
Lab File: VL040653.D
Acq: 5 Sep 2023 18:56

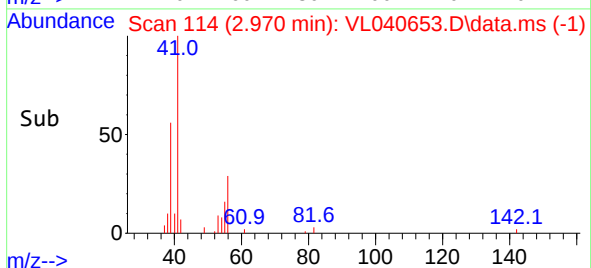
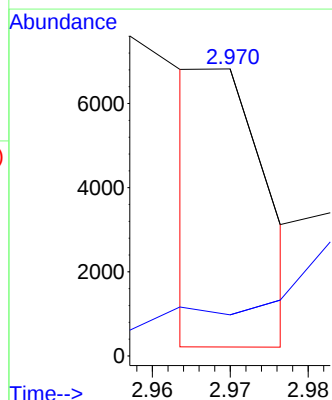
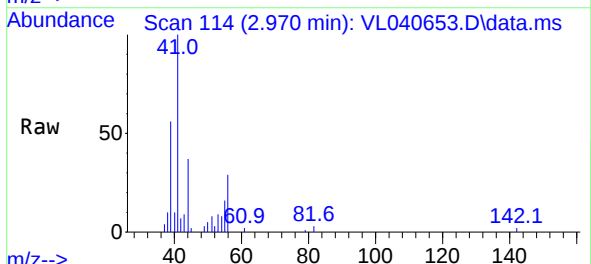
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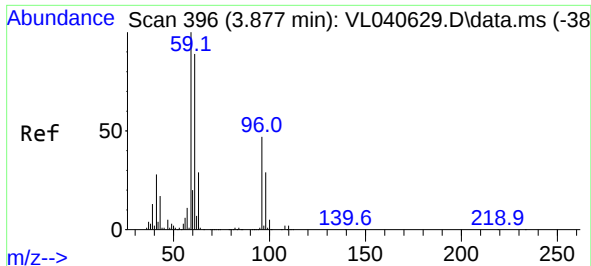
Tgt Ion: 43 Resp: 1005336
Ion Ratio Lower Upper
43 100
58 25.7 22.4 33.6



#16
1,3-Butadiene
Concen: 0.037 ppbv
RT: 2.970 min Scan# 114
Delta R.T. -0.010 min
Lab File: VL040653.D
Acq: 5 Sep 2023 18:56

Tgt Ion: 39 Resp: 1837
Ion Ratio Lower Upper
39 100
54 276.4 66.6 99.8#

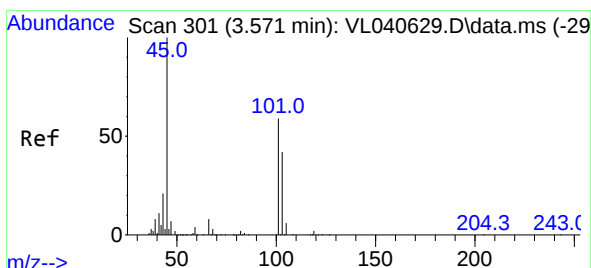
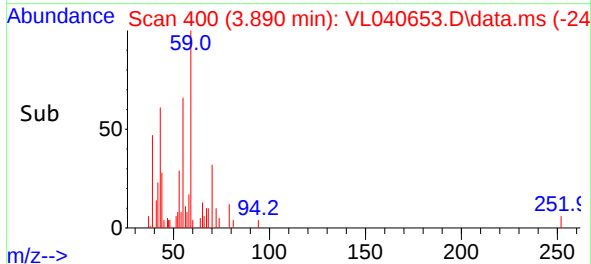
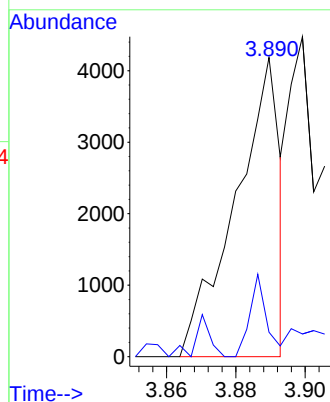
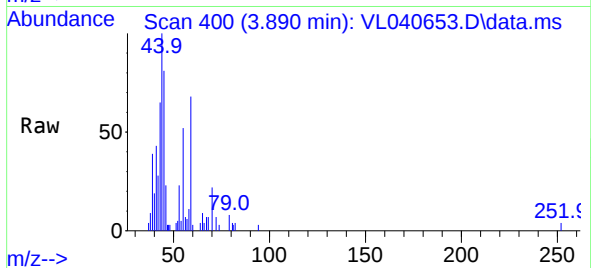




#17
tert-Butyl alcohol
Concen: 0.035 ppbv
RT: 3.890 min Scan# 40
Delta R.T. 0.013 min
Lab File: VL040653.D
Acq: 5 Sep 2023 18:56

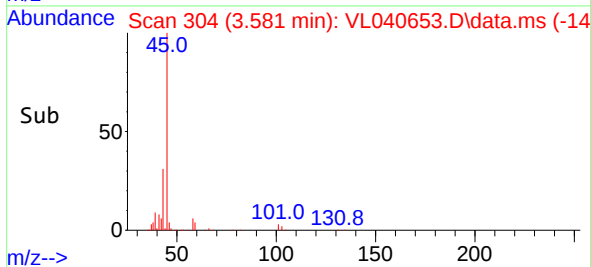
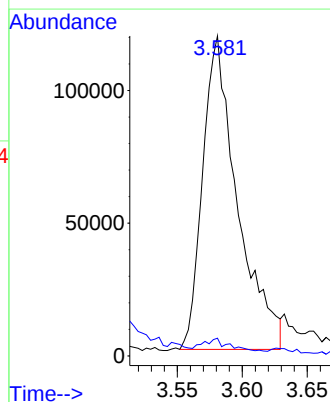
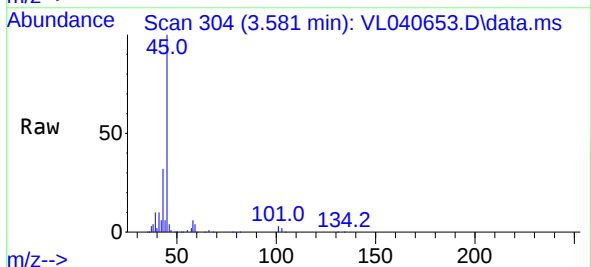
Instrument :
MSVOA_L
ClientSampleId :

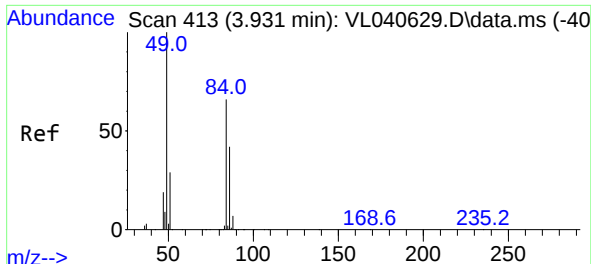
Tgt Ion: 59 Resp: 3718
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#



#19
Isopropyl Alcohol
Concen: 3.456 ppbv
RT: 3.581 min Scan# 304
Delta R.T. 0.010 min
Lab File: VL040653.D
Acq: 5 Sep 2023 18:56

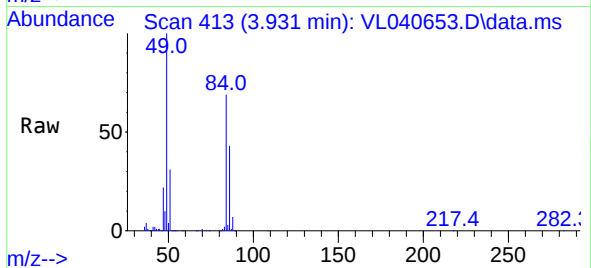
Tgt Ion: 45 Resp: 219841
Ion Ratio Lower Upper
45 100
58 117.5 1.9 2.9#





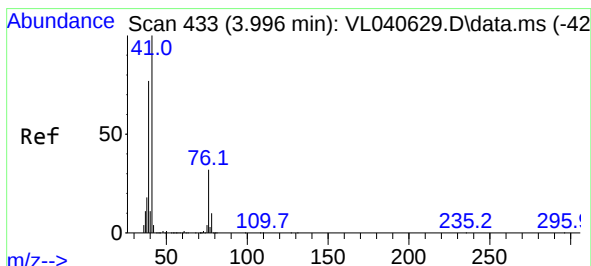
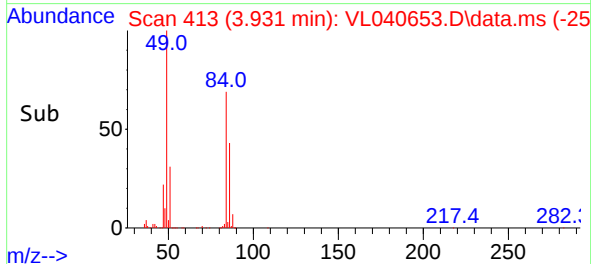
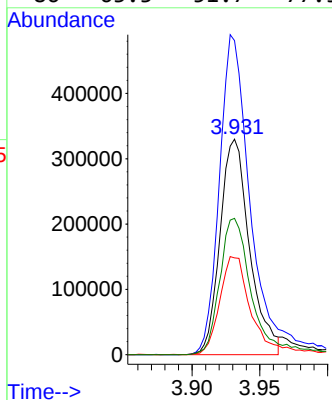
#20
Methylene Chloride
Concen: 10.258 ppbv
RT: 3.931 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL040653.D
Acq: 5 Sep 2023 18:56

Instrument :
MSVOA_L
ClientSampleId :



Tgt Ion: 84 Resp: 502893

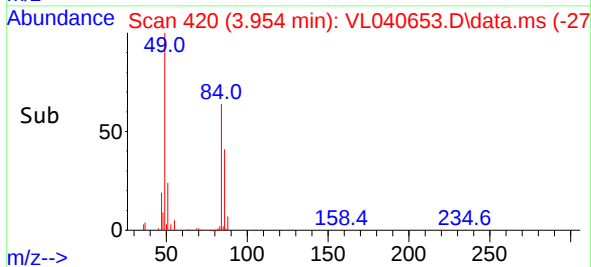
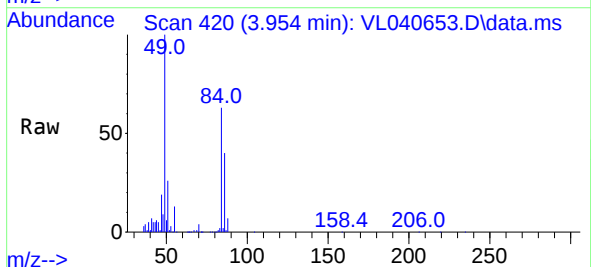
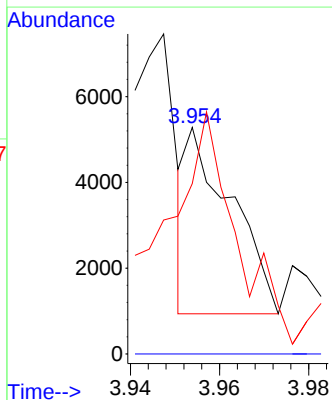
Ion	Ratio	Lower	Upper
84	100		
49	145.8	122.1	183.1
51	44.9	35.4	53.2
86	63.3	51.7	77.5

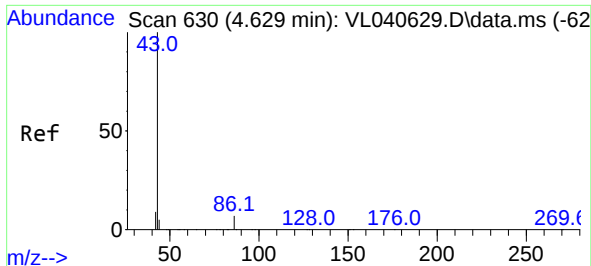


#21
Allyl Chloride
Concen: 0.046 ppbv
RT: 3.954 min Scan# 420
Delta R.T. -0.042 min
Lab File: VL040653.D
Acq: 5 Sep 2023 18:56

Tgt Ion: 41 Resp: 3063

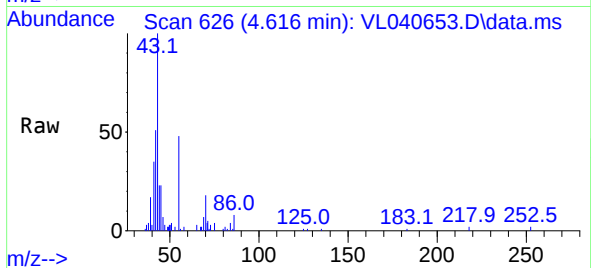
Ion	Ratio	Lower	Upper
41	100		
76	0.0	25.5	38.3#
39	253.5	61.8	92.6#





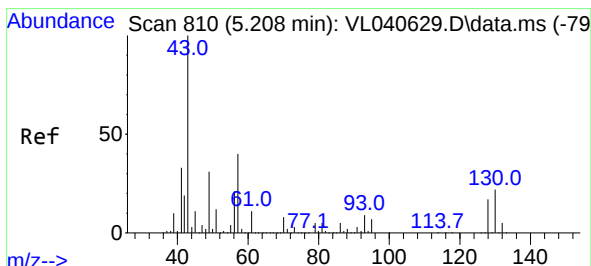
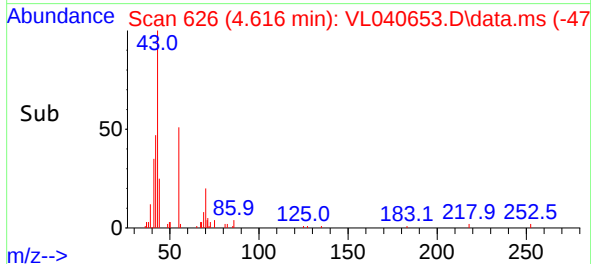
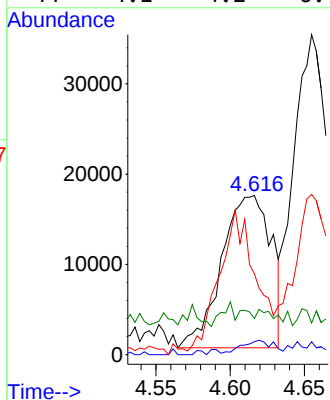
#23
 Vinyl Acetate
 Concen: 0.342 ppbv
 RT: 4.616 min Scan# 61
 Delta R.T. -0.013 min
 Lab File: VL040653.D
 Acq: 5 Sep 2023 18:56

Instrument :
 MSVOA_L
 ClientSampleId :



Tgt Ion: 43 Resp: 39106

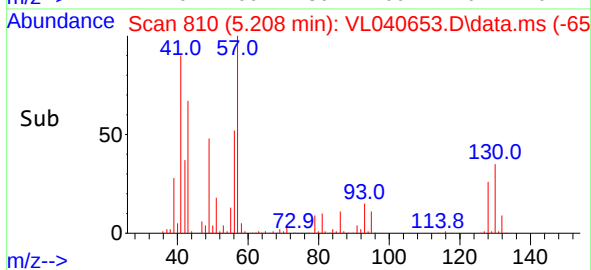
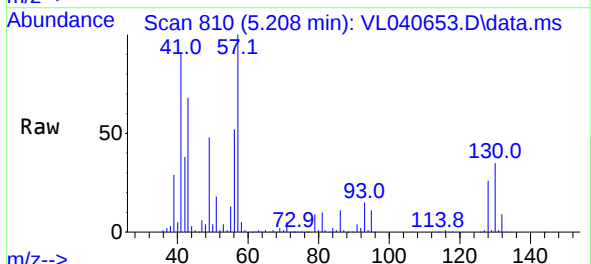
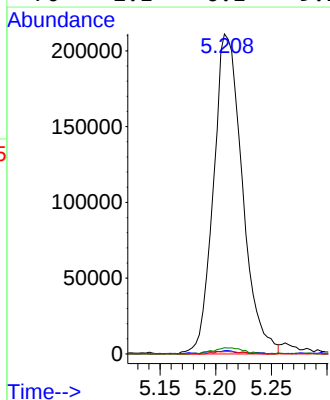
Ion	Ratio	Lower	Upper
43	100		
86	8.5	5.0	7.6#
42	49.5	7.8	11.8#
44	4.1	4.2	6.4#

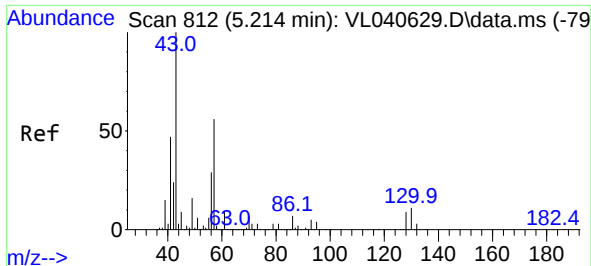


#25
 Ethyl Acetate
 Concen: 2.019 ppbv
 RT: 5.208 min Scan# 810
 Delta R.T. -0.000 min
 Lab File: VL040653.D
 Acq: 5 Sep 2023 18:56

Tgt Ion: 43 Resp: 380349

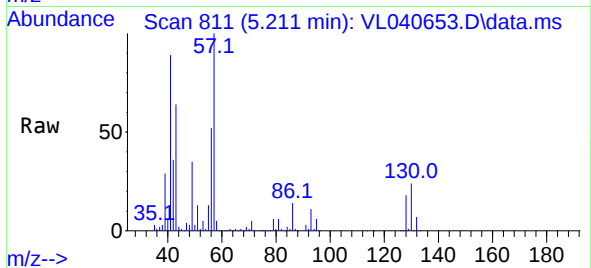
Ion	Ratio	Lower	Upper
43	100		
45	1.4	8.2	12.4#
61	0.8	8.3	12.5#
70	2.1	6.1	9.1#



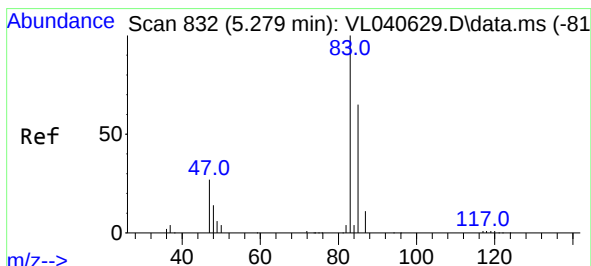
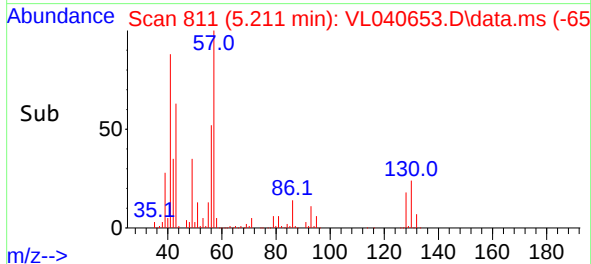
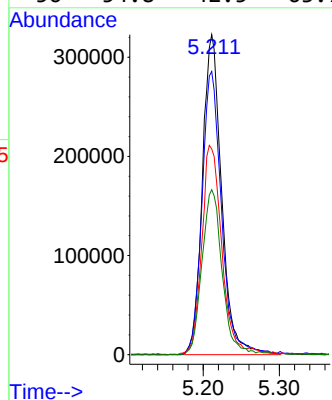


#26
Hexane
Concen: 6.213 ppbv
RT: 5.211 min Scan# 811
Delta R.T. -0.003 min
Lab File: VL040653.D
Acq: 5 Sep 2023 18:56

Instrument :
MSVOA_L
ClientSampleId :

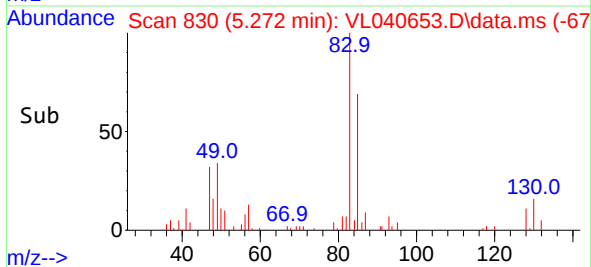
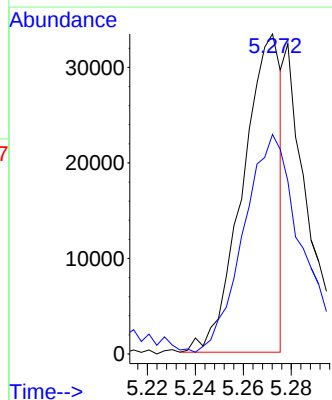
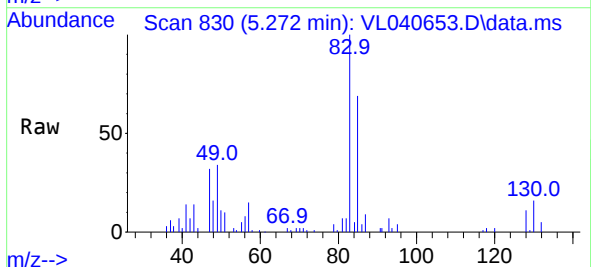


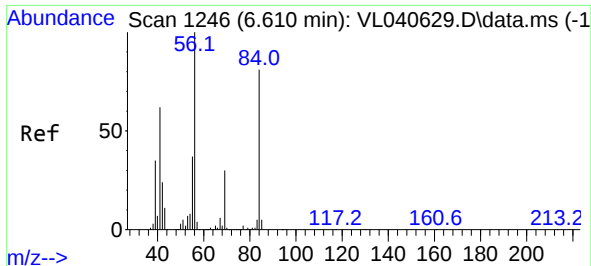
Tgt Ion: 57 Resp: 566318
Ion Ratio Lower Upper
57 100
41 91.1 69.3 103.9
43 69.0 177.9 266.9#
56 54.8 42.5 63.7



#29
Chloroform
Concen: 0.257 ppbv
RT: 5.272 min Scan# 830
Delta R.T. -0.006 min
Lab File: VL040653.D
Acq: 5 Sep 2023 18:56

Tgt Ion: 83 Resp: 37025
Ion Ratio Lower Upper
83 100
85 67.7 52.2 78.2

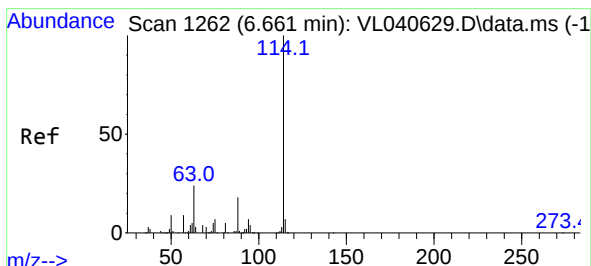
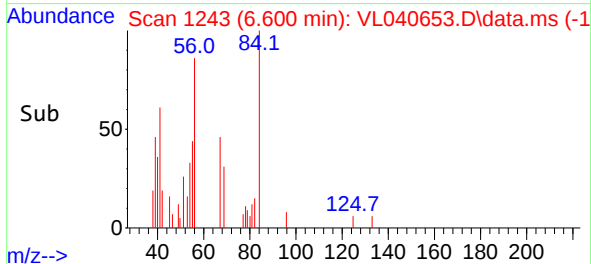
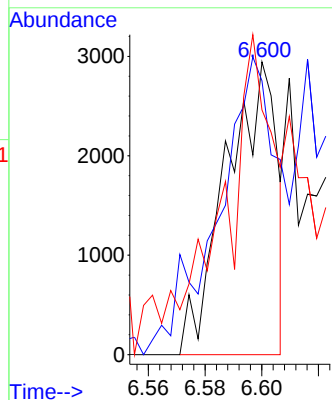
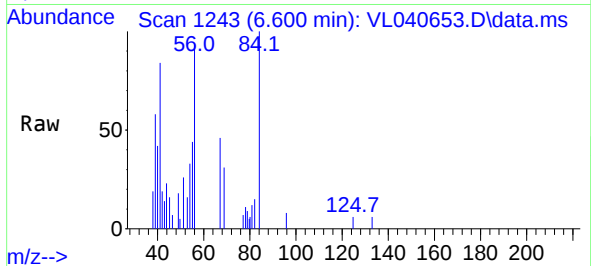




#30
Cyclohexane
Concen: 0.052 ppbv
RT: 6.600 min Scan# 11
Delta R.T. -0.010 min
Lab File: VL040653.D
Acq: 5 Sep 2023 18:56

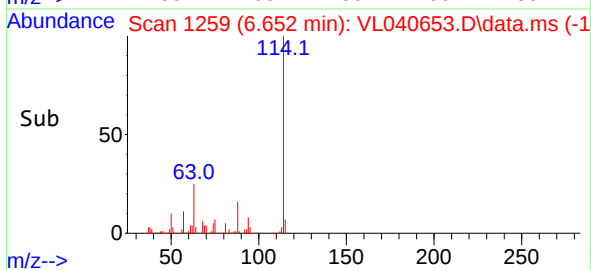
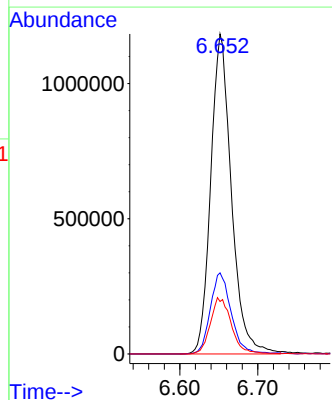
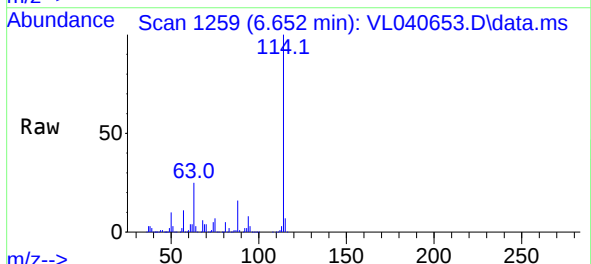
Instrument :
MSVOA_L
ClientSampleId :

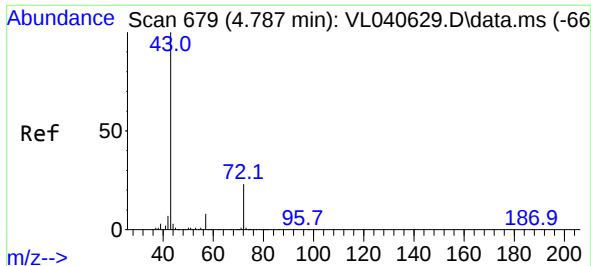
Tgt Ion: 84 Resp: 3652
Ion Ratio Lower Upper
84 100
56 0.0 105.4 158.2#
41 209.0 64.2 96.2#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.652 min Scan# 1259
Delta R.T. -0.010 min
Lab File: VL040653.D
Acq: 5 Sep 2023 18:56

Tgt Ion: 114 Resp: 2178610
Ion Ratio Lower Upper
114 100
63 25.7 20.2 30.2
88 18.0 14.1 21.1

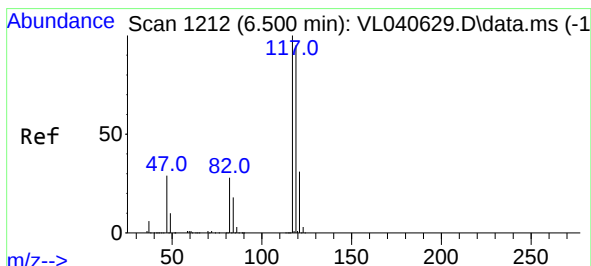
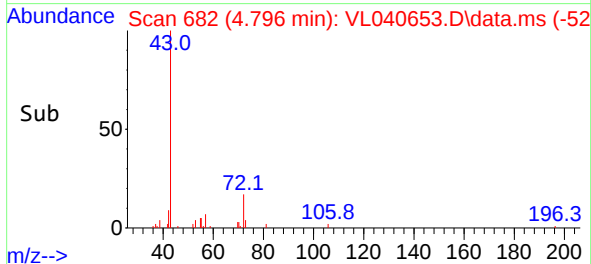
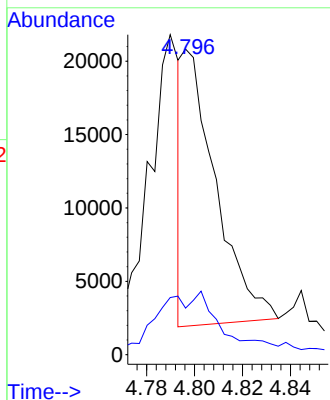
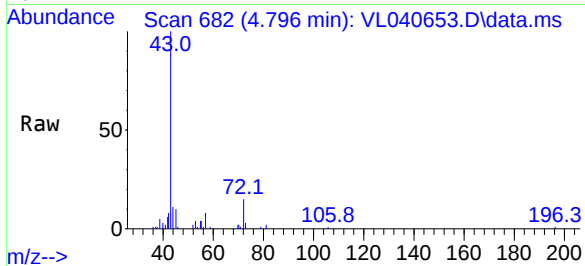




#34
2-Butanone
Concen: 0.164 ppbv
RT: 4.796 min Scan# 61
Delta R.T. 0.010 min
Lab File: VL040653.D
Acq: 5 Sep 2023 18:56

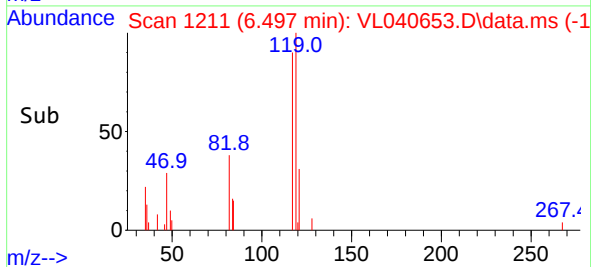
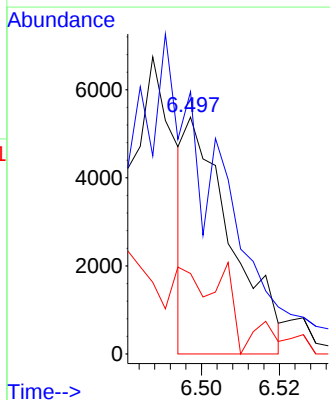
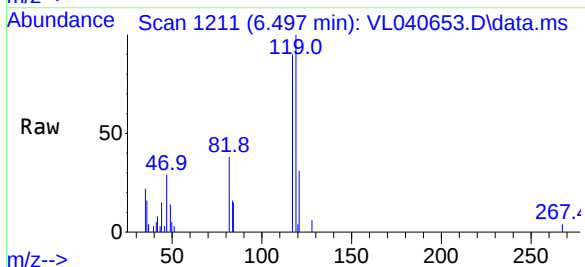
Instrument :
MSVOA_L
ClientSampleId :

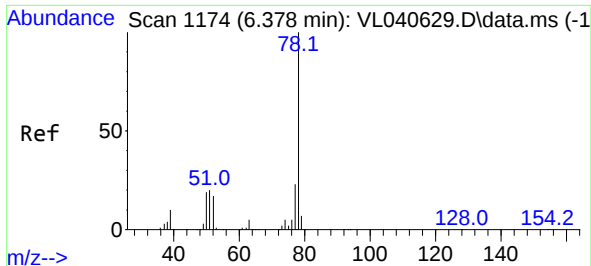
Tgt Ion: 43 Resp: 18067
Ion Ratio Lower Upper
43 100
72 49.2 19.2 28.8#



#35
Carbon Tetrachloride
Concen: 0.032 ppbv
RT: 6.497 min Scan# 1211
Delta R.T. -0.003 min
Lab File: VL040653.D
Acq: 5 Sep 2023 18:56

Tgt Ion: 117 Resp: 4364
Ion Ratio Lower Upper
117 100
119 104.3 75.6 113.4
121 33.0 24.9 37.3

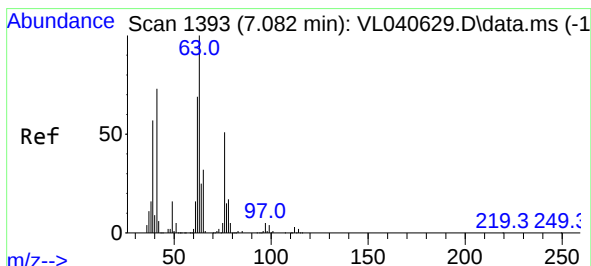
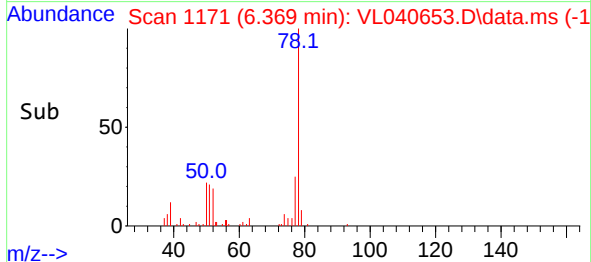
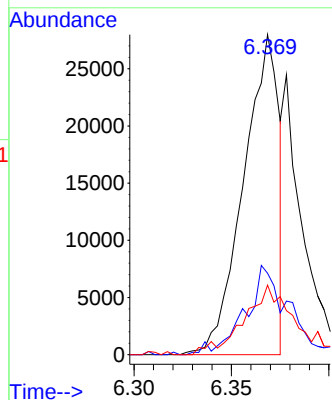
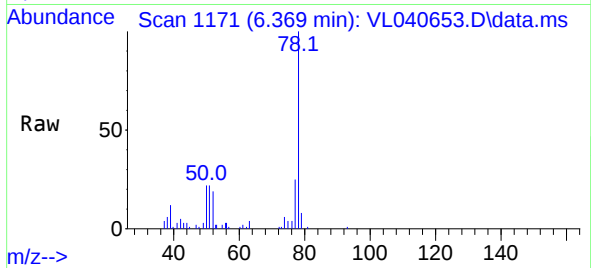




#36
Benzene
Concen: 0.203 ppbv
RT: 6.369 min Scan# 1174
Delta R.T. -0.010 min
Lab File: VL040653.D
Acq: 5 Sep 2023 18:56

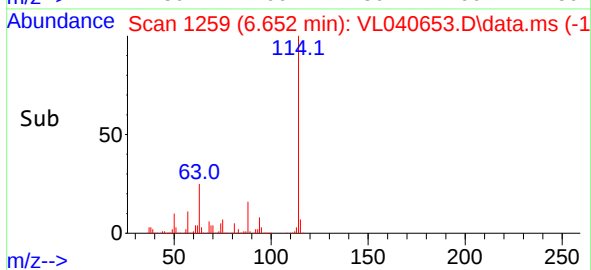
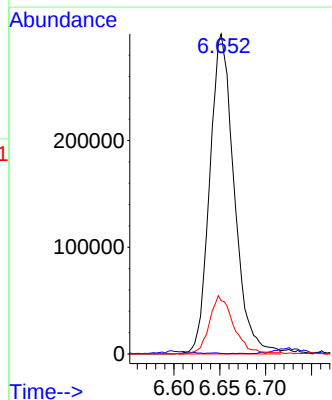
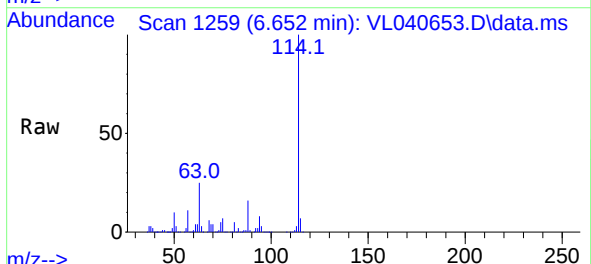
Instrument :
MSVOA_L
ClientSampleId :

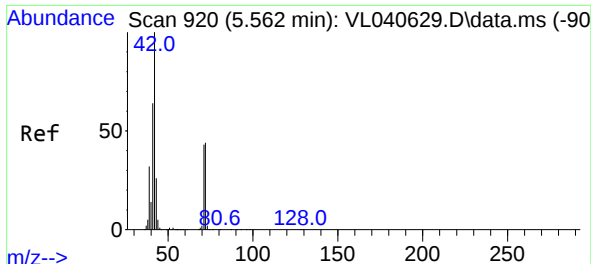
Tgt Ion: 78 Resp: 35221
Ion Ratio Lower Upper
78 100
77 25.5 18.2 27.2
50 21.7 15.0 22.6



#39
1,2-Dichloropropane
Concen: 8.434 ppbv
RT: 6.652 min Scan# 1259
Delta R.T. -0.431 min
Lab File: VL040653.D
Acq: 5 Sep 2023 18:56

Tgt Ion: 63 Resp: 556157
Ion Ratio Lower Upper
63 100
41 0.0 58.2 87.2#
62 16.7 55.0 82.4#

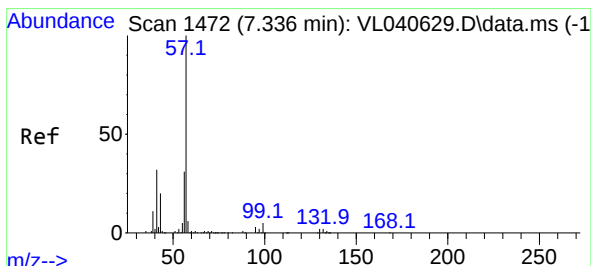
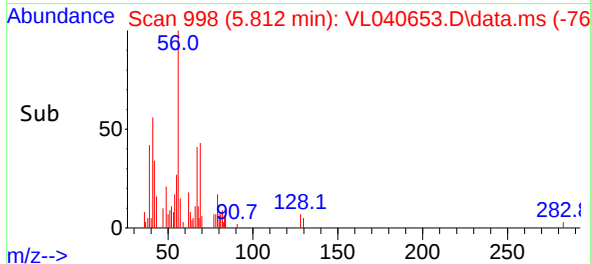
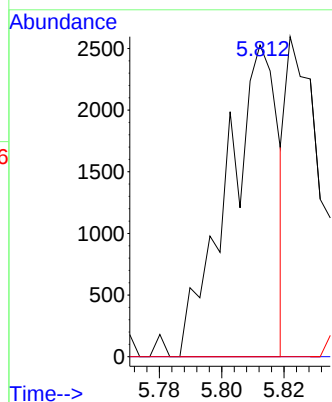
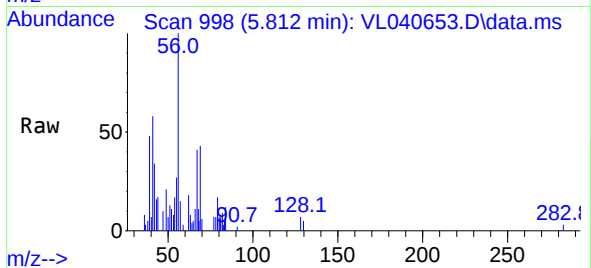




#41
Tetrahydrofuran
Concen: 0.046 ppbv
RT: 5.812 min Scan# 91
Delta R.T. 0.251 min
Lab File: VL040653.D
Acq: 5 Sep 2023 18:56

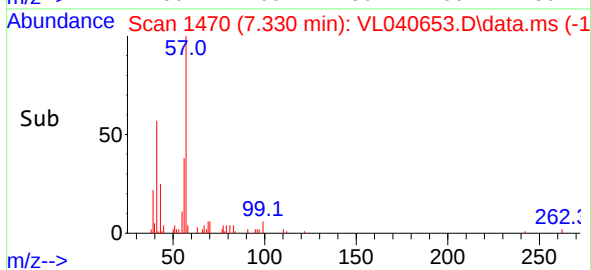
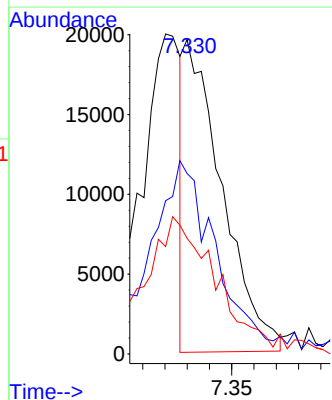
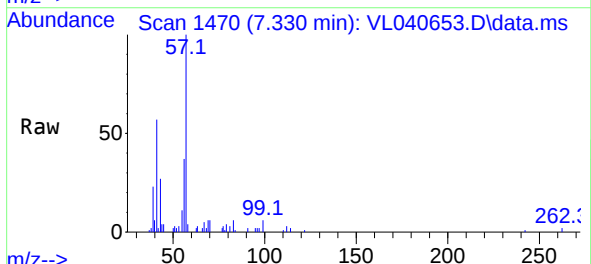
Instrument :
MSVOA_L
ClientSampleId :

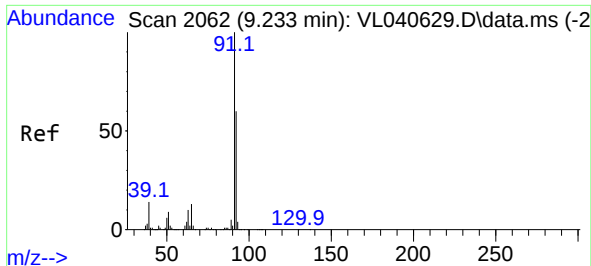
Tgt Ion: 42 Resp: 2862
Ion Ratio Lower Upper
42 100
72 4.0 34.2 51.4#
71 0.0 33.4 50.0#



#44
2,2,4-Trimethylpentane
Concen: 0.082 ppbv
RT: 7.330 min Scan# 1470
Delta R.T. -0.006 min
Lab File: VL040653.D
Acq: 5 Sep 2023 18:56

Tgt Ion: 57 Resp: 23023
Ion Ratio Lower Upper
57 100
41 113.0 26.2 39.4#
56 89.3 24.7 37.1#

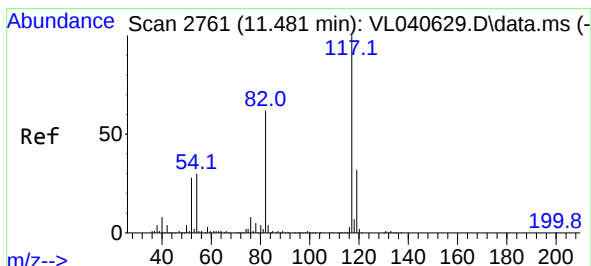
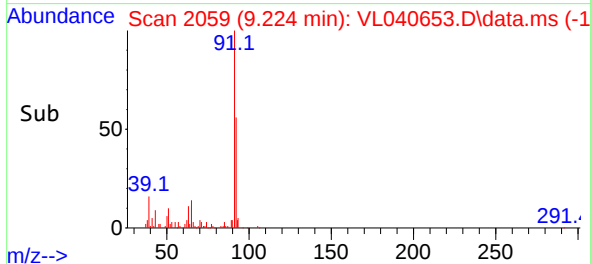
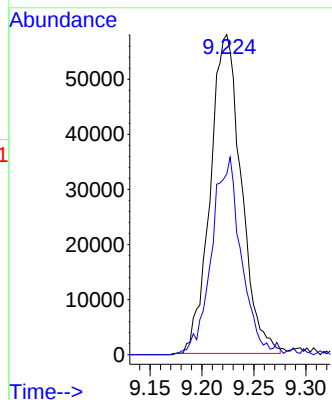
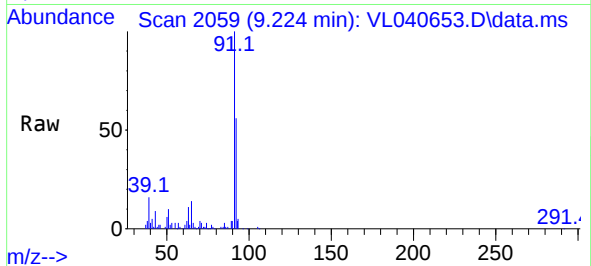




#53
Toluene
Concen: 0.652 ppbv
RT: 9.224 min Scan# 2062
Delta R.T. -0.010 min
Lab File: VL040653.D
Acq: 5 Sep 2023 18:56

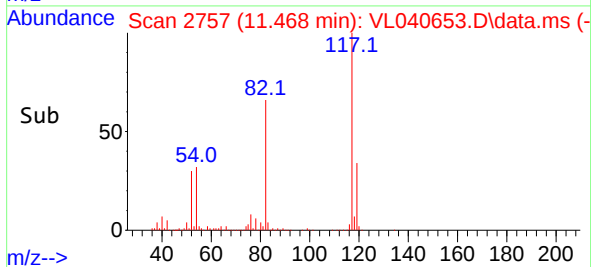
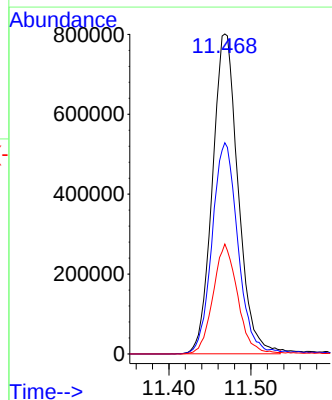
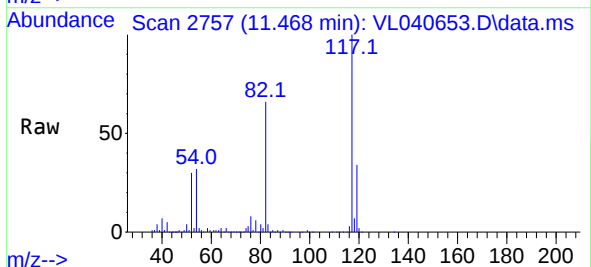
Instrument :
MSVOA_L
ClientSampleId :

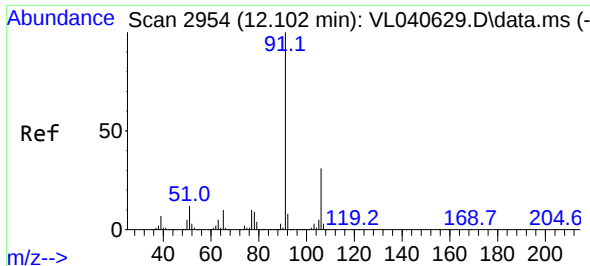
Tgt Ion: 91 Resp: 120112
Ion Ratio Lower Upper
91 100
92 60.1 48.0 72.0



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.468 min Scan# 2757
Delta R.T. -0.013 min
Lab File: VL040653.D
Acq: 5 Sep 2023 18:56

Tgt Ion: 117 Resp: 1743575
Ion Ratio Lower Upper
117 100
82 67.6 49.5 74.3
119 33.2 24.5 36.7

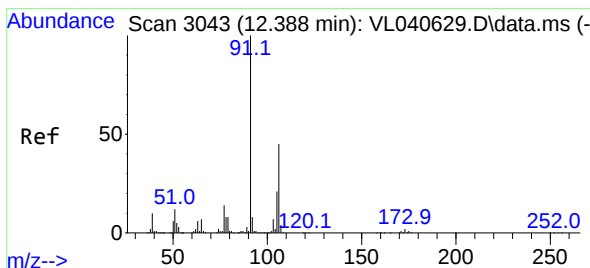
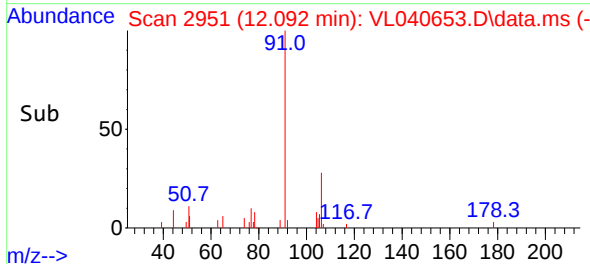
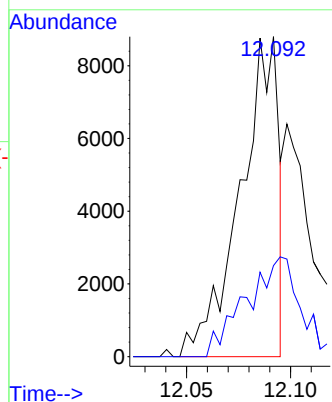
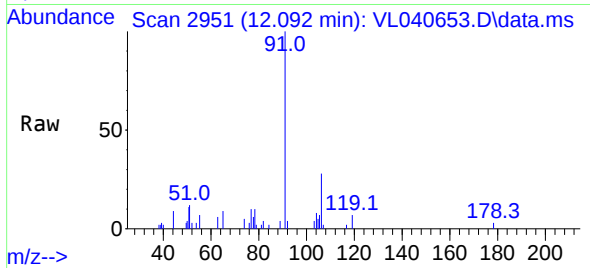




#58
Ethyl Benzene
Concen: 0.053 ppbv
RT: 12.092 min Scan# 2954
Delta R.T. -0.010 min
Lab File: VL040653.D
Acq: 5 Sep 2023 18:56

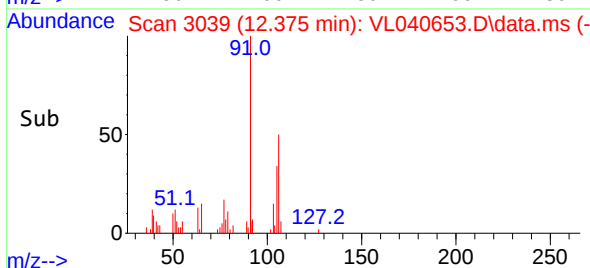
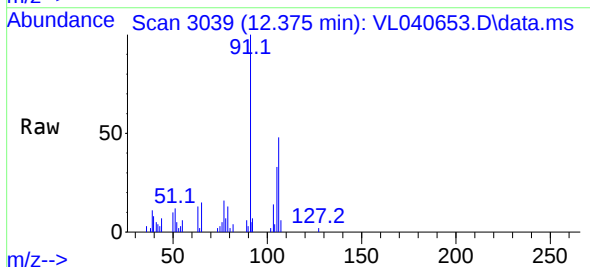
Instrument :
MSVOA_L
ClientSampleId :

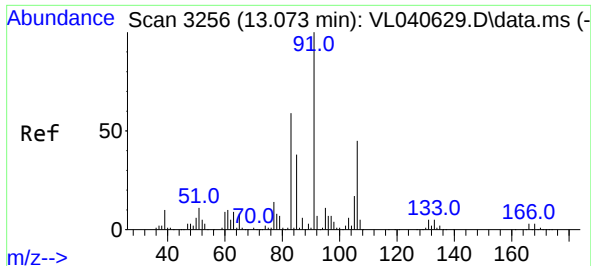
Tgt Ion: 91 Resp: 11231
Ion Ratio Lower Upper
91 100
106 28.4 24.6 36.8



#59
m/p-Xylene
Concen: 0.050 ppbv
RT: 12.375 min Scan# 3039
Delta R.T. -0.013 min
Lab File: VL040653.D
Acq: 5 Sep 2023 18:56

Tgt Ion: 91 Resp: 9678
Ion Ratio Lower Upper
91 100
106 0.0 35.3 52.9#

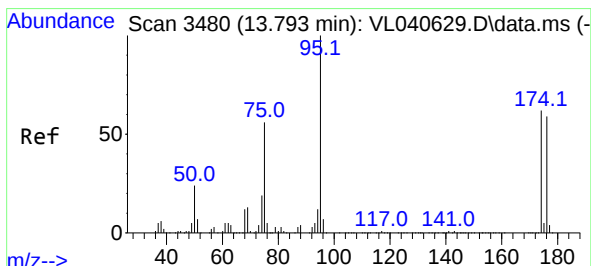
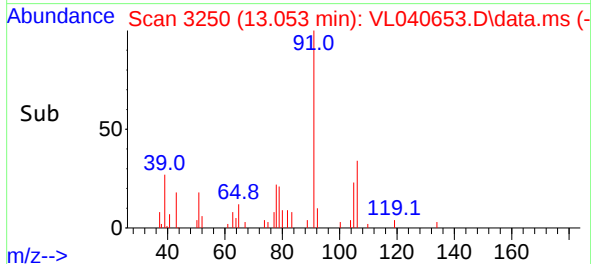
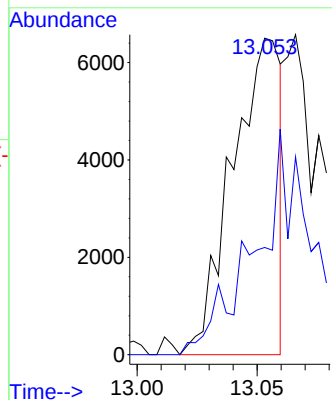
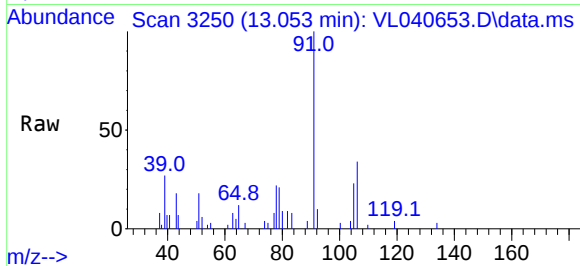




#60
o-Xylene
Concen: 0.050 ppbv
RT: 13.053 min Scan# 31
Delta R.T. -0.019 min
Lab File: VL040653.D
Acq: 5 Sep 2023 18:56

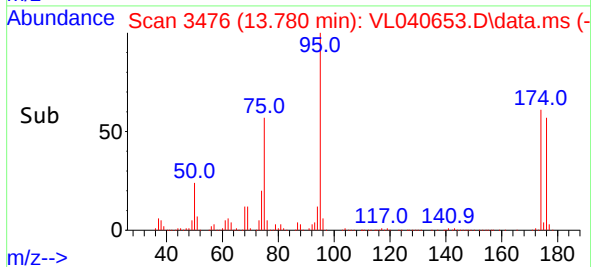
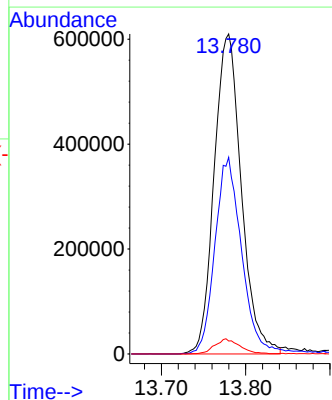
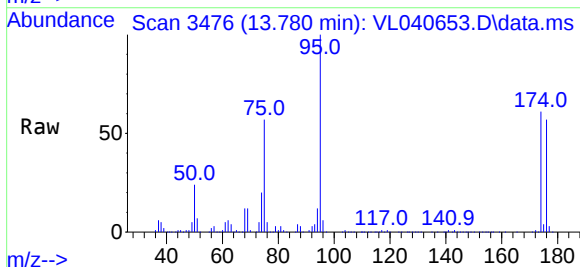
Instrument :
MSVOA_L
ClientSampleId :

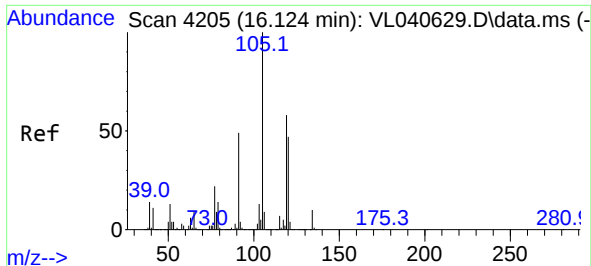
Tgt Ion: 91 Resp: 9059
Ion Ratio Lower Upper
91 100
106 0.0 22.5 67.5#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.869 ppbv
RT: 13.780 min Scan# 3476
Delta R.T. -0.013 min
Lab File: VL040653.D
Acq: 5 Sep 2023 18:56

Tgt Ion: 95 Resp: 1368443
Ion Ratio Lower Upper
95 100
174 62.0 49.1 73.7
175 4.4 3.7 5.5

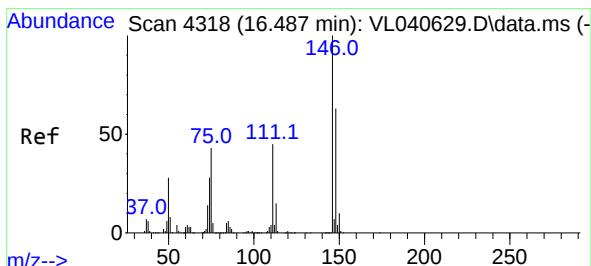
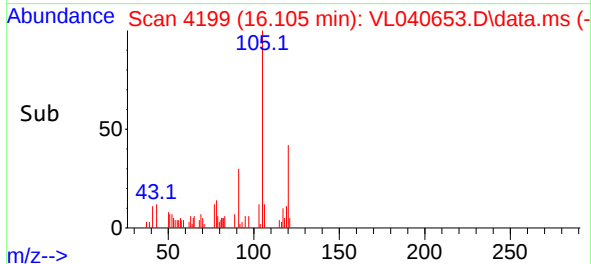
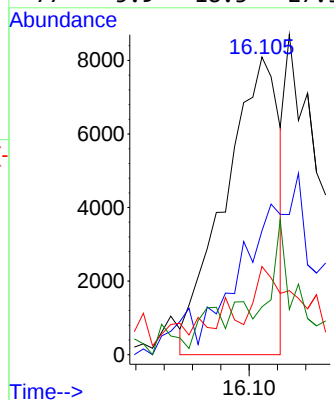
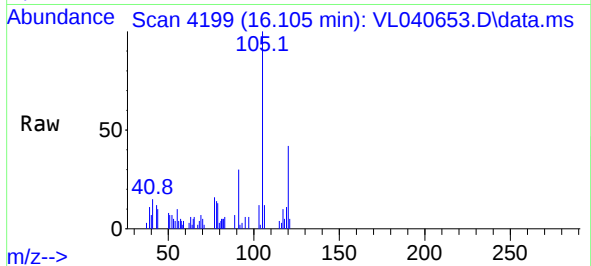




#74
1,2,4-Trimethylbenzene
Concen: 0.050 ppbv
RT: 16.105 min Scan# 4199
Delta R.T. -0.019 min
Lab File: VL040653.D
Acq: 5 Sep 2023 18:56

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion:	105	Resp:	10692
Ion	Ratio	Lower	Upper
105	100		
120	33.4	37.7	56.5#
91	20.9	41.2	61.8#
77	5.9	18.3	27.5#



#76
1,4-Dichlorobenzene
Concen: 0.173 ppbv
RT: 16.474 min Scan# 4314
Delta R.T. -0.013 min
Lab File: VL040653.D
Acq: 5 Sep 2023 18:56

Tgt Ion:	146	Resp:	20938
Ion	Ratio	Lower	Upper
146	100		
111	0.0	23.2	69.5#
148	96.2	32.5	97.5

