

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092122\
 Data File : VL039644.D
 Acq On : 21 Sep 2022 20:58
 Operator : SY/AP
 Sample : N4669-02DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0PF4DL

Quant Time: Sep 22 08:19:58 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091922AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Mon Sep 19 14:26:28 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.214	49	1148675	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.671	114	2992624	10.000	ppbv	0.01
55) Chlorobenzene-d5	11.484	117	2689462	10.000	ppbv	0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.793	95	2038887	10.155	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.600%

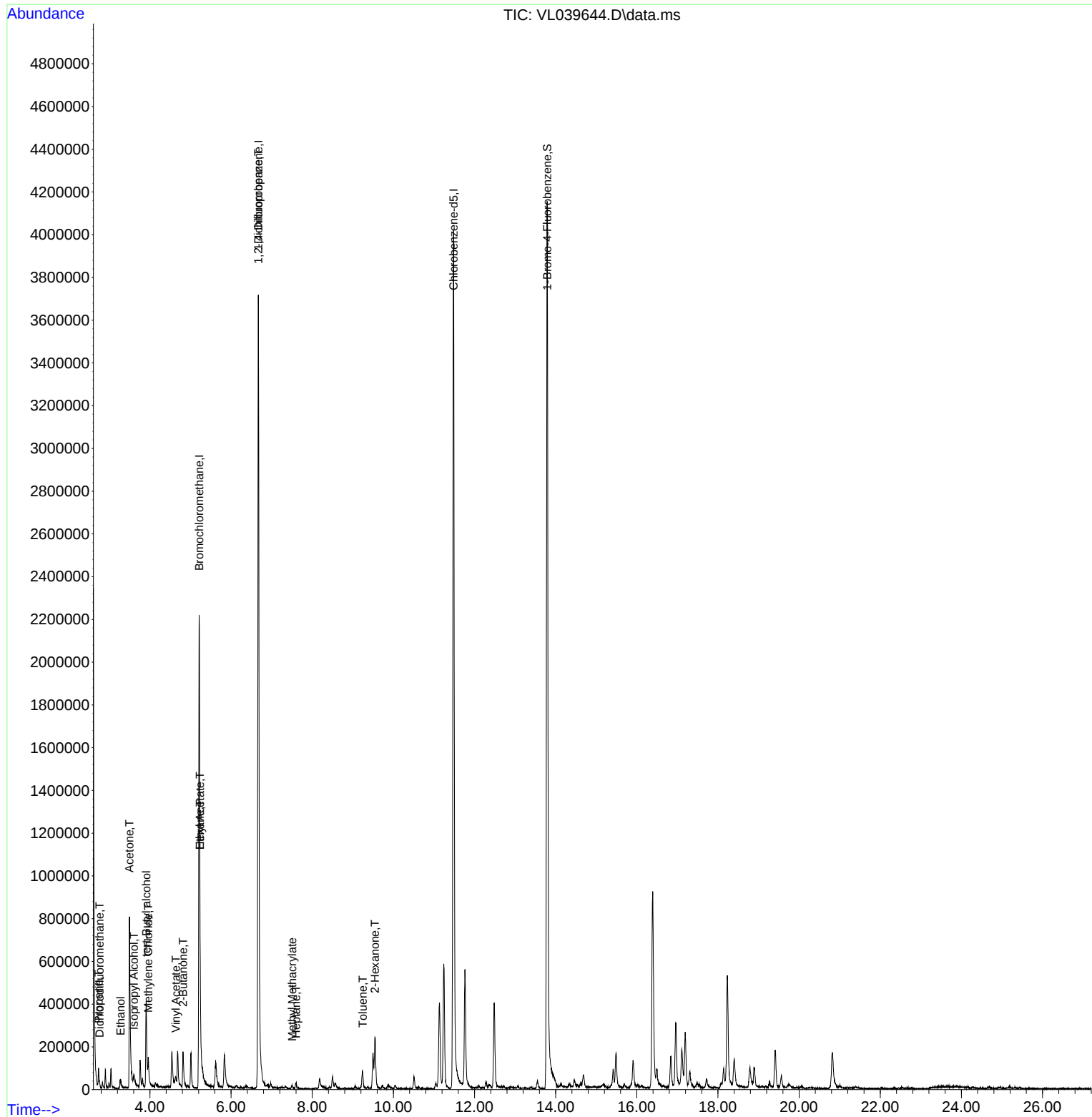
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.758	85	7427	0.056	ppbv	91
9) Propene	2.735	41	24096	0.387	ppbv #	69
10) Heptane	7.600	43	7266	0.050	ppbv #	65
13) Ethanol	3.275	45	44608	9.404	ppbv	75
15) Acetone	3.497	43	876086	6.854	ppbv	94
17) tert-Butyl alcohol	3.909	59	319762	2.788	ppbv	96
19) Isopropyl Alcohol	3.603	45	44842	0.688	ppbv #	88
20) Methylene Chloride	3.957	84	33004	0.558	ppbv #	90
23) Vinyl Acetate	4.639	43	8515	0.147	ppbv #	1
25) Ethyl Acetate	5.234	43	29700	0.107	ppbv #	92
26) Hexane	5.234	57	17016	0.144	ppbv #	57
34) 2-Butanone	4.816	43	200466	1.364	ppbv	94
39) 1,2-Dichloropropane	6.674	63	737923	8.352	ppbv #	25
43) Methyl Methacrylate	7.503	69	2842	0.034	ppbv #	1
51) 2-Hexanone	9.545	43	143655	0.840	ppbv #	31
53) Toluene	9.243	91	27059	0.106	ppbv #	21

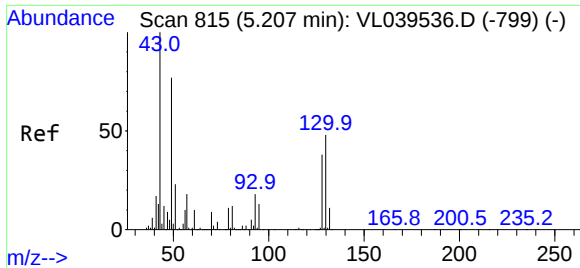
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Sep 19 14:26:28 2022
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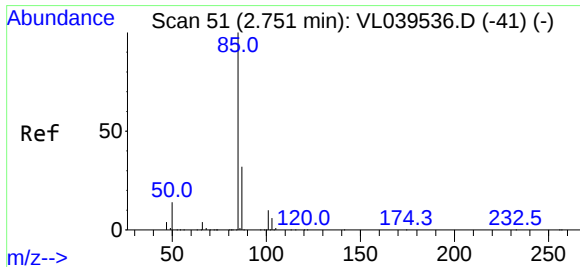
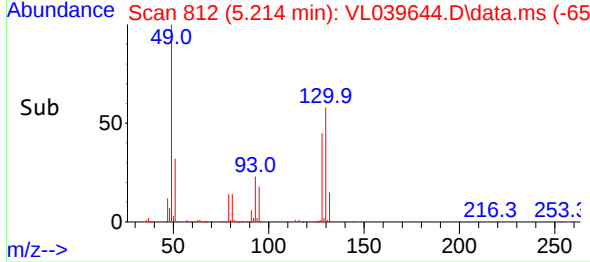
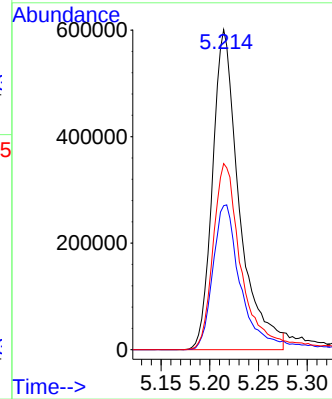
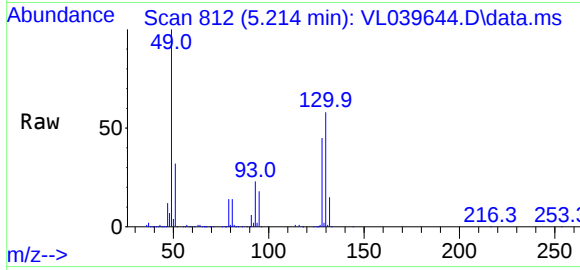




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.214 min Scan# 81
Delta R.T. 0.007 min
Lab File: VL039644.D
Acq: 21 Sep 2022 20:58

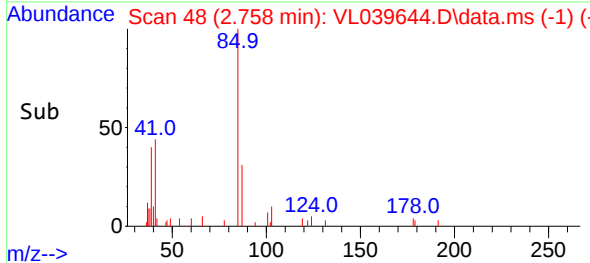
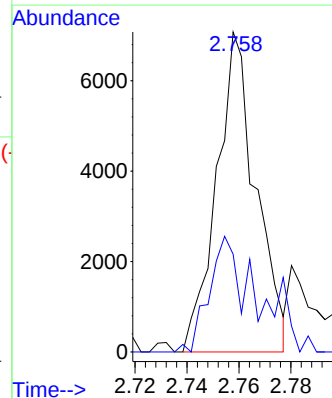
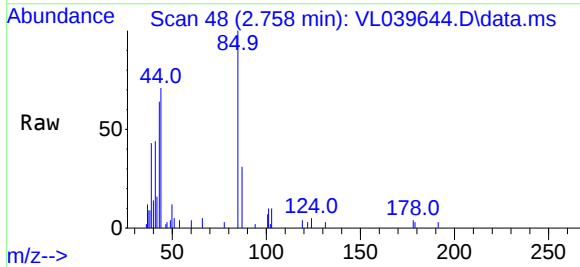
Instrument :
MSVOA_L
ClientSampleId :
C0PF4DL

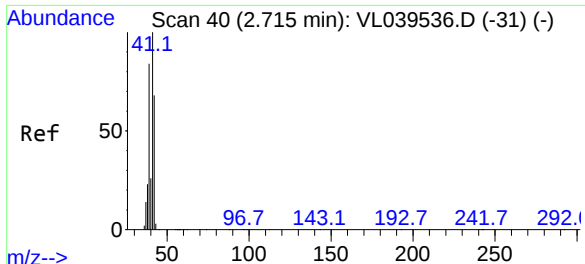
Tgt Ion: 49 Resp: 1148675
Ion Ratio Lower Upper
49 100
128 50.3 26.7 80.0
130 64.7 34.3 102.8



#2
Dichlorodifluoromethane
Concen: 0.056 ppbv
RT: 2.758 min Scan# 48
Delta R.T. 0.007 min
Lab File: VL039644.D
Acq: 21 Sep 2022 20:58

Tgt Ion: 85 Resp: 7427
Ion Ratio Lower Upper
85 100
87 28.2 26.7 40.1

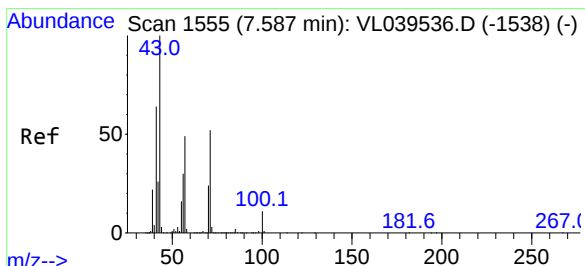
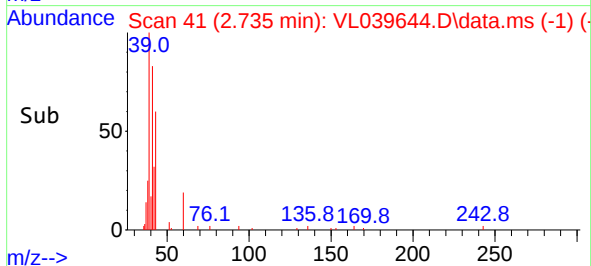
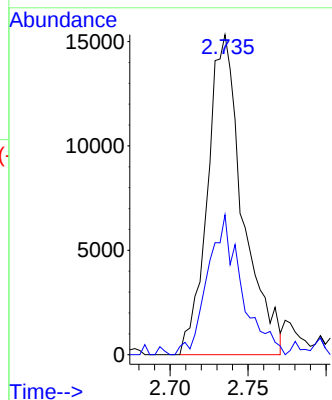
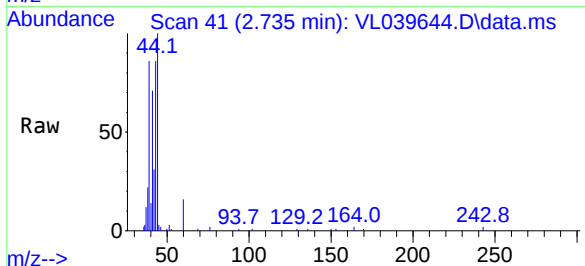




#9
Propene
Concen: 0.387 ppbv
RT: 2.735 min Scan# 41
Delta R.T. 0.020 min
Lab File: VL039644.D
Acq: 21 Sep 2022 20:58

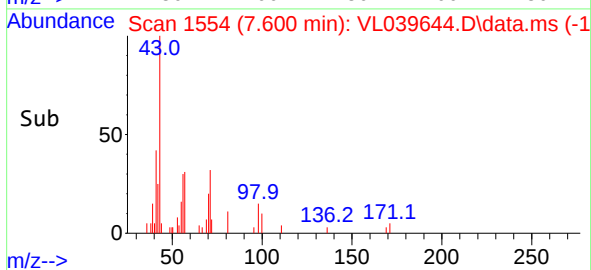
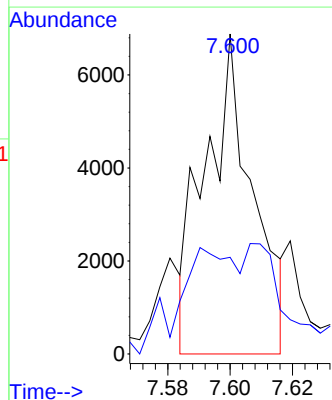
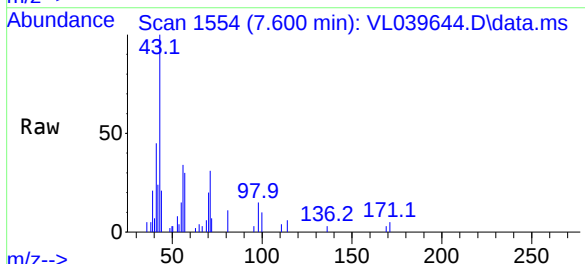
Instrument :
MSVOA_L
ClientSampleId :
C0PF4DL

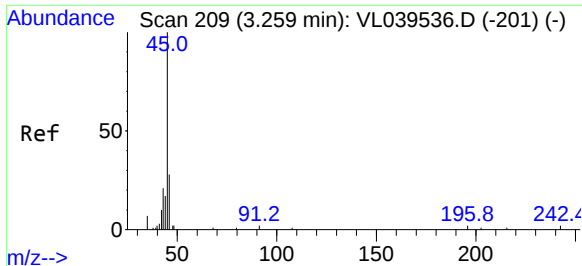
Tgt Ion: 41 Resp: 24096
Ion Ratio Lower Upper
41 100
42 43.4 55.2 82.8#



#10
Heptane
Concen: 0.050 ppbv
RT: 7.600 min Scan# 1554
Delta R.T. 0.013 min
Lab File: VL039644.D
Acq: 21 Sep 2022 20:58

Tgt Ion: 43 Resp: 7266
Ion Ratio Lower Upper
43 100
57 75.1 40.5 60.7#

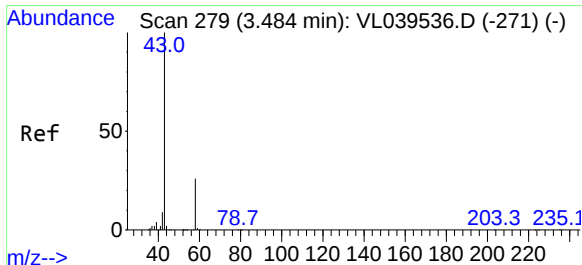
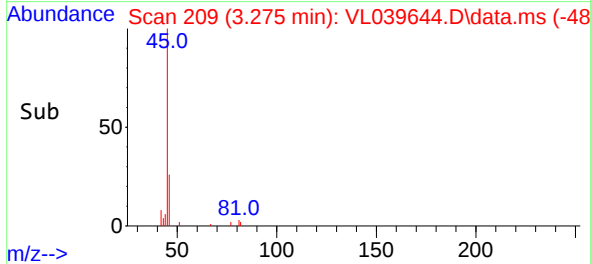
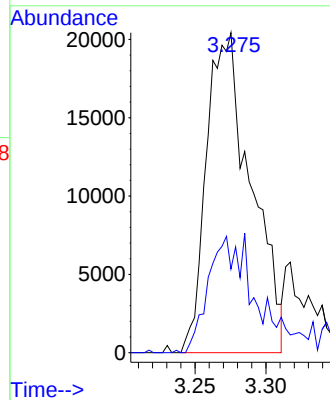
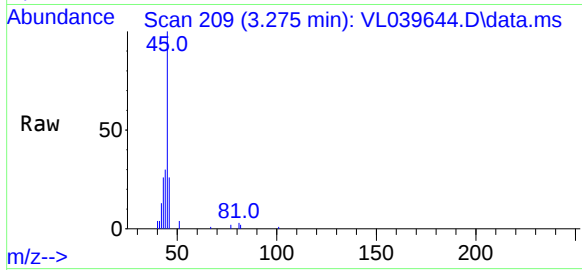




#13
Ethanol
Concen: 9.404 ppbv
RT: 3.275 min Scan# 209
Delta R.T. 0.017 min
Lab File: VL039644.D
Acq: 21 Sep 2022 20:58

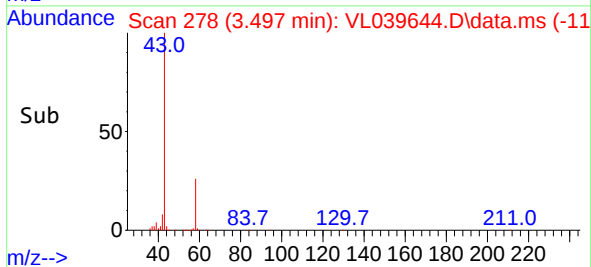
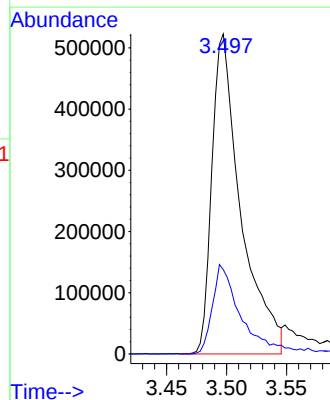
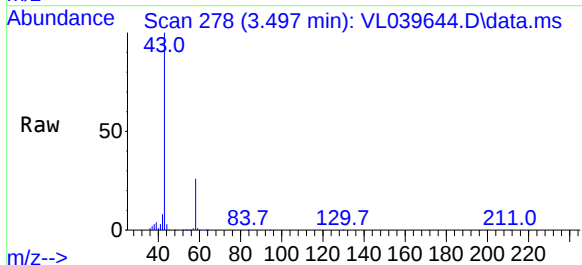
Instrument :
MSVOA_L
ClientSampleId :
C0PF4DL

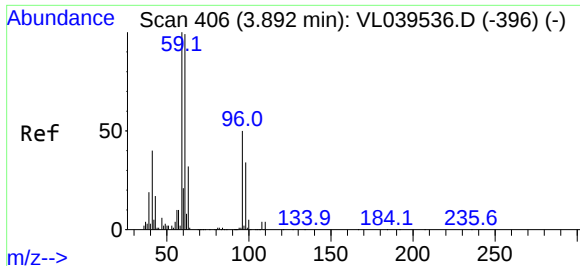
Tgt Ion: 45 Resp: 44608
Ion Ratio Lower Upper
45 100
46 38.4 22.8 91.2



#15
Acetone
Concen: 6.854 ppbv
RT: 3.497 min Scan# 278
Delta R.T. 0.013 min
Lab File: VL039644.D
Acq: 21 Sep 2022 20:58

Tgt Ion: 43 Resp: 876086
Ion Ratio Lower Upper
43 100
58 29.5 21.0 31.6





#17

tert-Butyl alcohol

Concen: 2.788 ppbv

RT: 3.909 min Scan# 406

Delta R.T. 0.017 min

Lab File: VL039644.D

Acq: 21 Sep 2022 20:58

Instrument :

MSVOA_L

ClientSampleId :

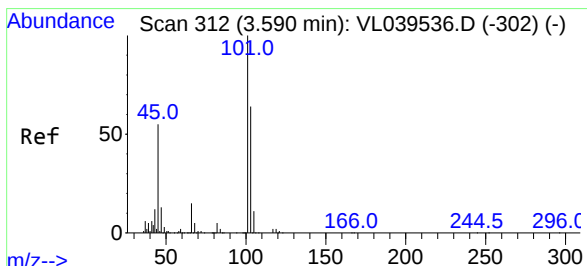
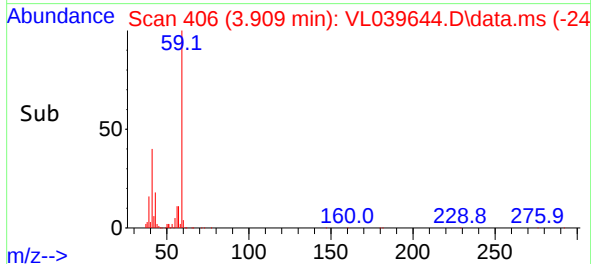
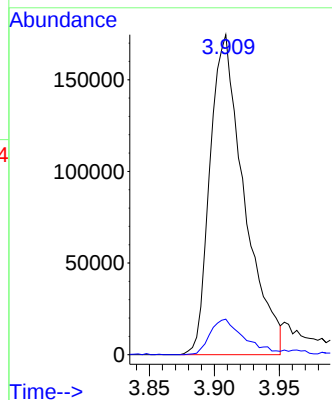
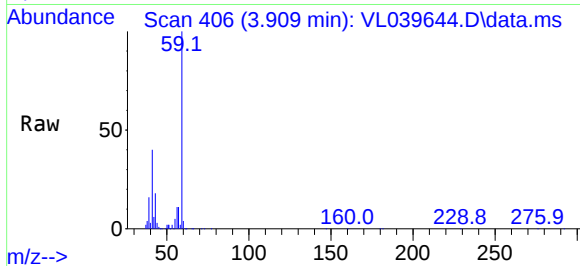
C0PF4DL

Tgt Ion: 59 Resp: 319762

Ion Ratio Lower Upper

59 100

57 12.3 8.7 13.1



#19

Isopropyl Alcohol

Concen: 0.688 ppbv

RT: 3.603 min Scan# 311

Delta R.T. 0.013 min

Lab File: VL039644.D

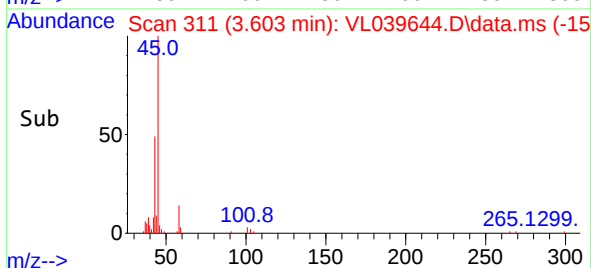
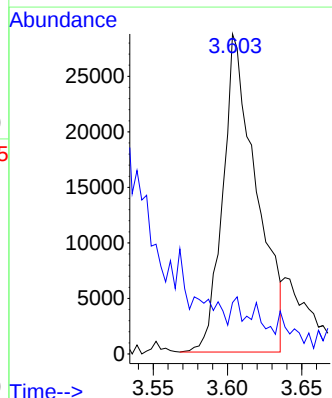
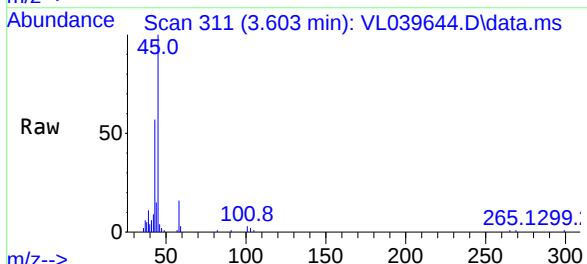
Acq: 21 Sep 2022 20:58

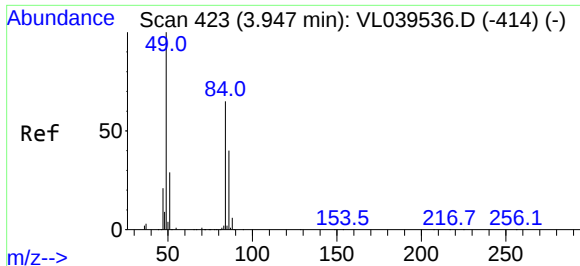
Tgt Ion: 45 Resp: 44842

Ion Ratio Lower Upper

45 100

58 0.0 3.2 4.8#



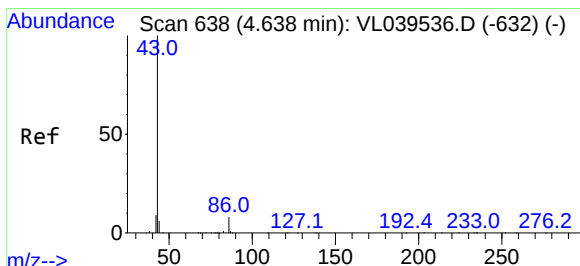
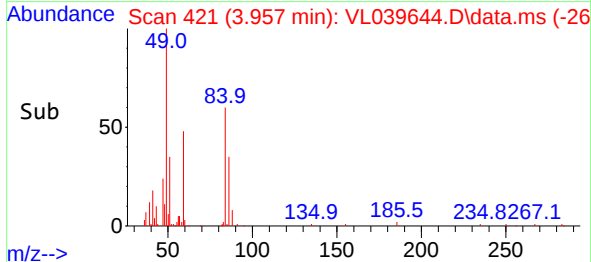
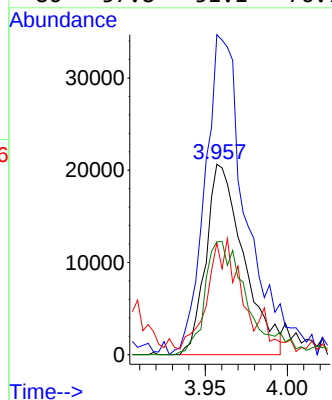
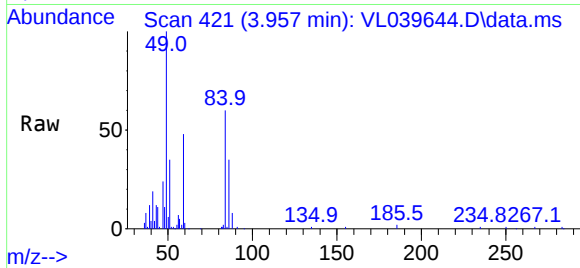


#20
Methylene Chloride
Concen: 0.558 ppbv
RT: 3.957 min Scan# 41
Delta R.T. 0.010 min
Lab File: VL039644.D
Acq: 21 Sep 2022 20:58

Instrument :
MSVOA_L
ClientSampleId :
C0PF4DL

Tgt Ion: 84 Resp: 33004

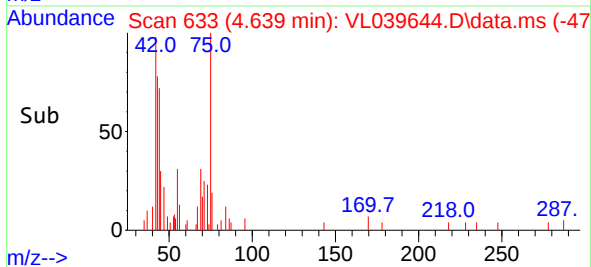
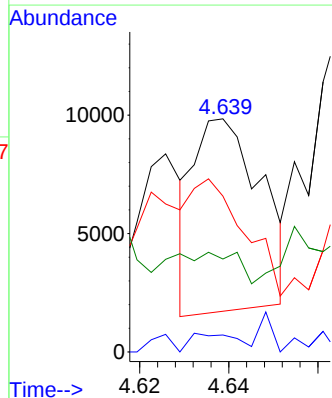
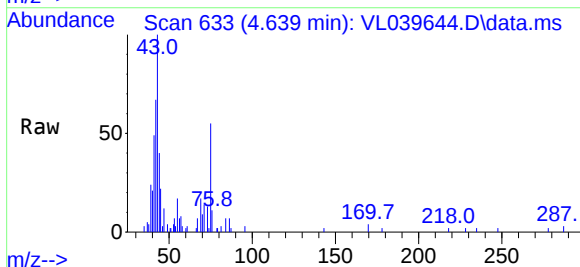
Ion	Ratio	Lower	Upper
84	100		
49	164.4	123.1	184.7
51	55.7	34.4	51.6#
86	57.8	51.1	76.7

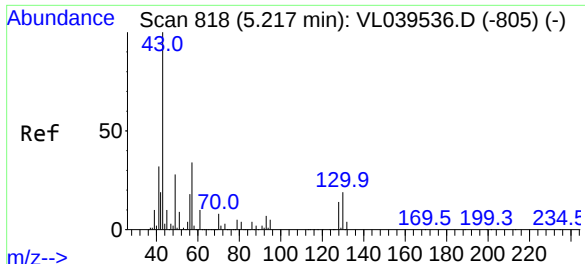


#23
Vinyl Acetate
Concen: 0.147 ppbv
RT: 4.639 min Scan# 633
Delta R.T. 0.001 min
Lab File: VL039644.D
Acq: 21 Sep 2022 20:58

Tgt Ion: 43 Resp: 8515

Ion	Ratio	Lower	Upper
43	100		
86	16.4	5.0	7.6#
42	96.3	7.7	11.5#
44	6.9	4.6	7.0





#25

Ethyl Acetate

Concen: 0.107 ppbv

RT: 5.234 min Scan# 818

Delta R.T. 0.017 min

Lab File: VL039644.D

Acq: 21 Sep 2022 20:58

Instrument :

MSVOA_L

ClientSampleId :

C0PF4DL

Tgt Ion: 43 Resp: 29700

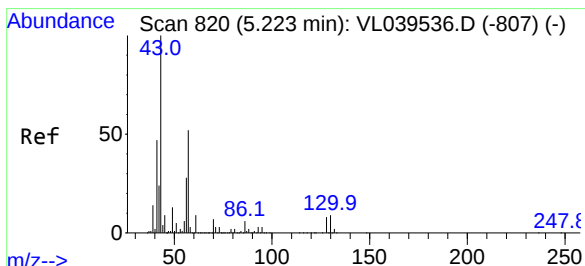
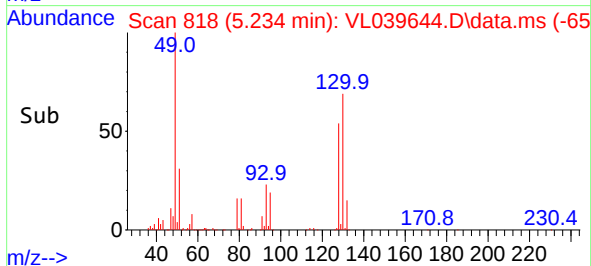
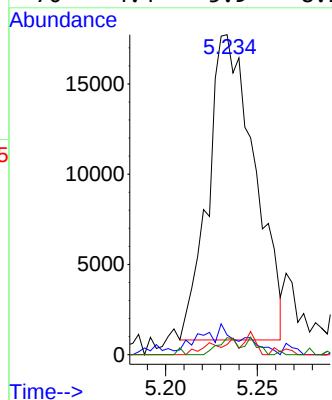
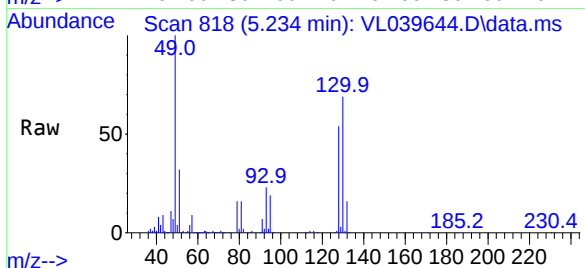
Ion Ratio Lower Upper

43 100

45 9.7 8.2 12.4

61 5.2 8.3 12.5#

70 4.4 5.9 8.9#



#26

Hexane

Concen: 0.144 ppbv

RT: 5.234 min Scan# 818

Delta R.T. 0.010 min

Lab File: VL039644.D

Acq: 21 Sep 2022 20:58

Tgt Ion: 57 Resp: 17016

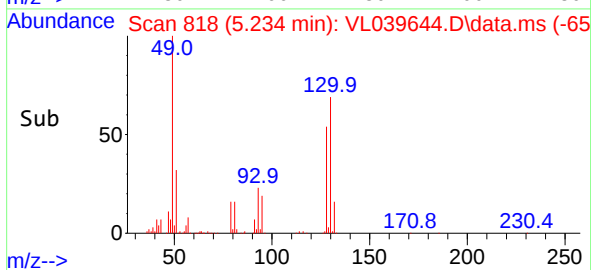
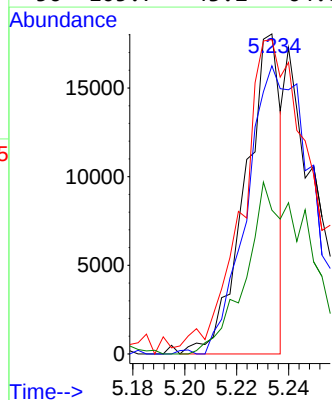
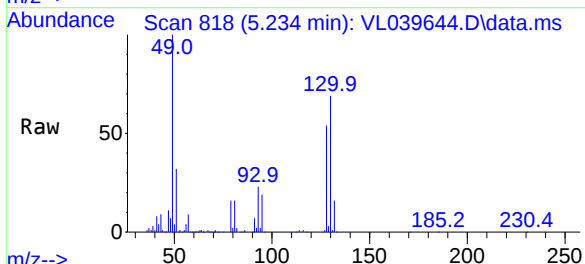
Ion Ratio Lower Upper

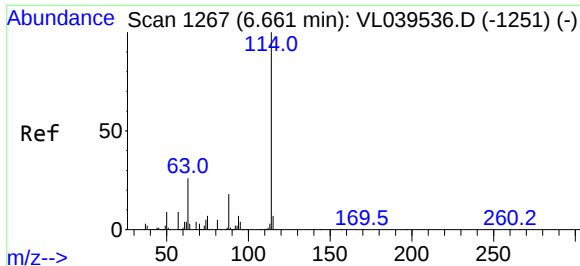
57 100

41 189.0 76.9 115.3#

43 213.7 191.0 286.6

56 105.7 43.2 64.8#



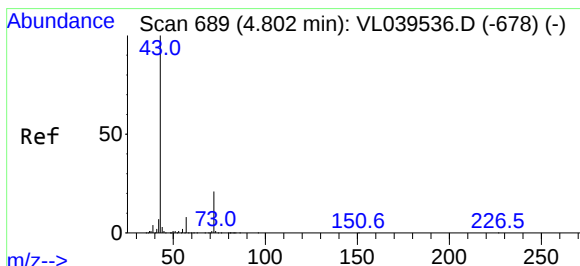
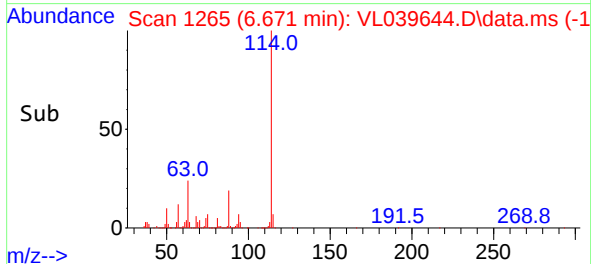
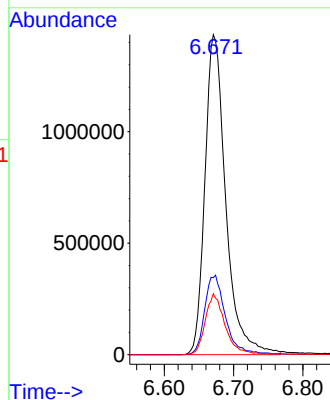
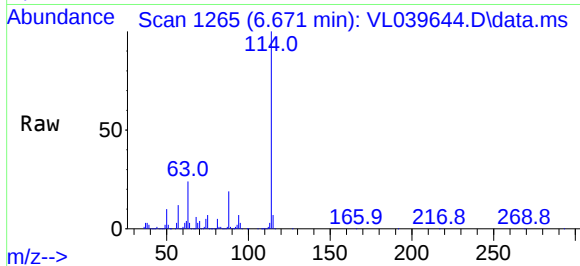


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.671 min Scan# 114
Delta R.T. 0.010 min
Lab File: VL039644.D
Acq: 21 Sep 2022 20:58

Instrument :
MSVOA_L
ClientSampleId :
C0PF4DL

Tgt Ion:114 Resp: 2992624

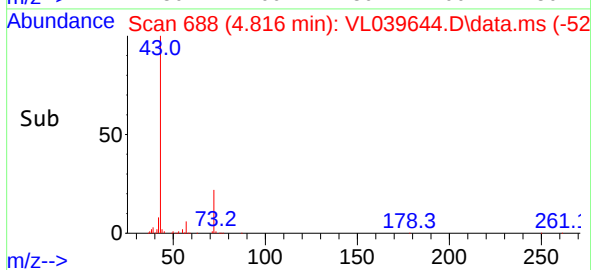
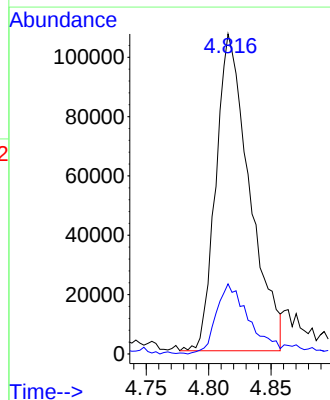
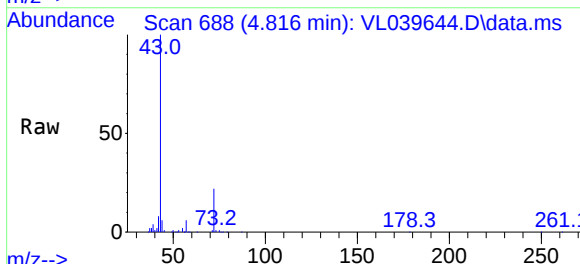
Ion	Ratio	Lower	Upper
114	100		
63	25.4	20.2	30.4
88	18.4	14.5	21.7

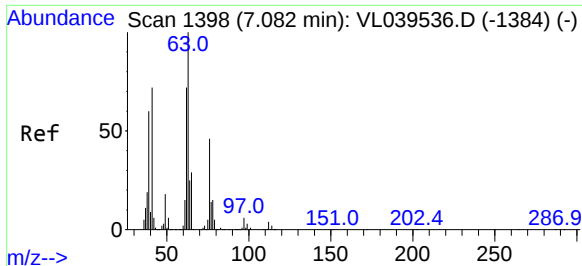


#34
2-Butanone
Concen: 1.364 ppbv
RT: 4.816 min Scan# 688
Delta R.T. 0.013 min
Lab File: VL039644.D
Acq: 21 Sep 2022 20:58

Tgt Ion: 43 Resp: 200466

Ion	Ratio	Lower	Upper
43	100		
72	25.5	17.9	26.9





#39

1,2-Dichloropropane

Concen: 8.352 ppbv

RT: 6.674 min Scan# 1

Delta R.T. -0.408 min

Lab File: VL039644.D

Acq: 21 Sep 2022 20:58

Instrument :

MSVOA_L

ClientSampleId :

C0PF4DL

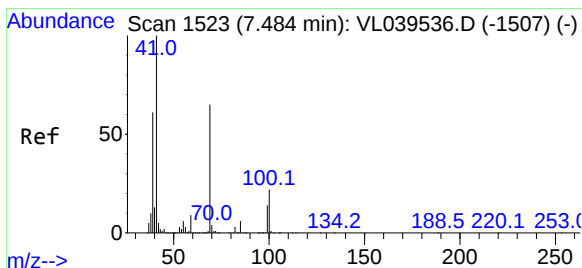
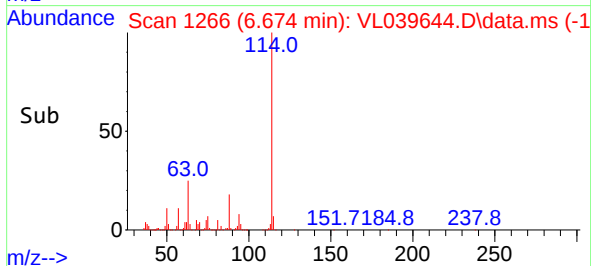
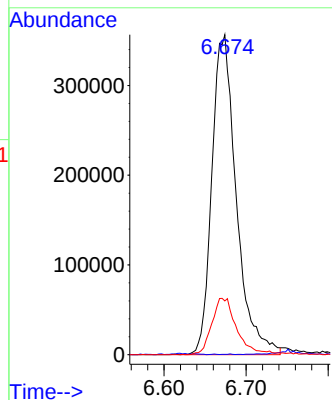
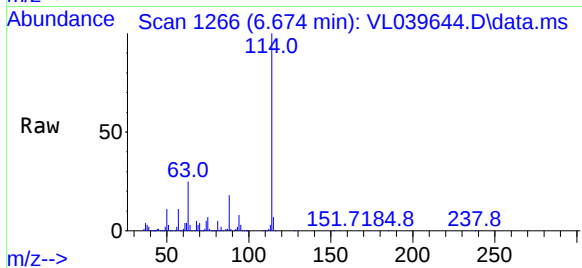
Tgt Ion: 63 Resp: 737923

Ion Ratio Lower Upper

63 100

41 0.0 59.6 89.4#

62 16.8 51.4 77.0#



#43

Methyl Methacrylate

Concen: 0.034 ppbv

RT: 7.503 min Scan# 1524

Delta R.T. 0.020 min

Lab File: VL039644.D

Acq: 21 Sep 2022 20:58

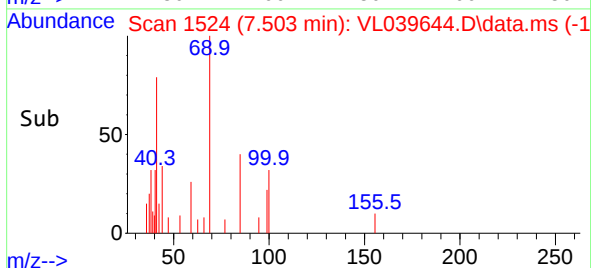
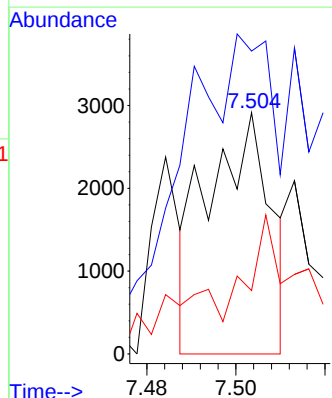
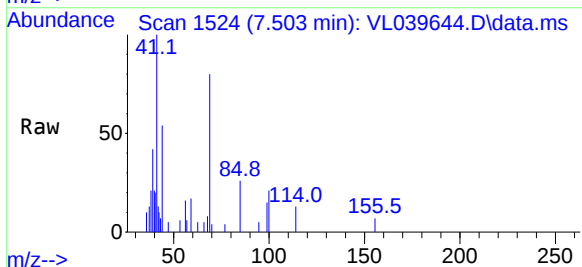
Tgt Ion: 69 Resp: 2842

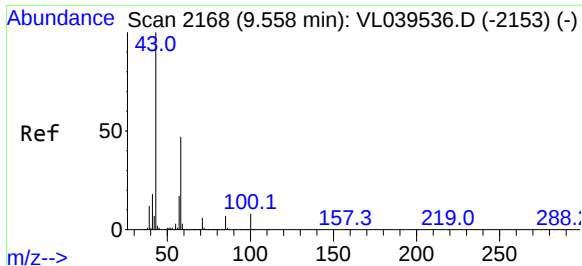
Ion Ratio Lower Upper

69 100

41 325.7 120.8 181.2#

100 82.7 27.8 41.6#

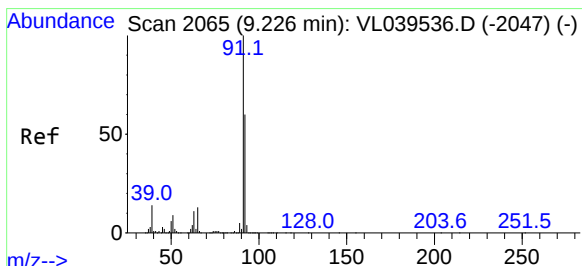
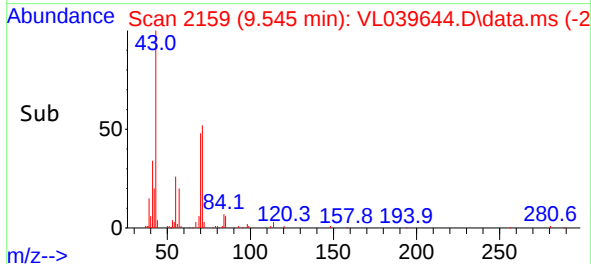
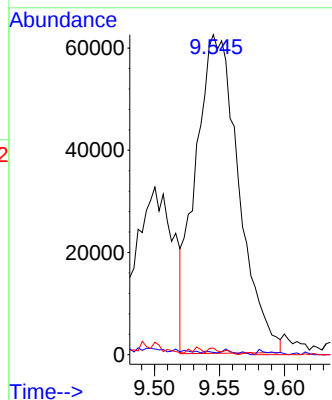
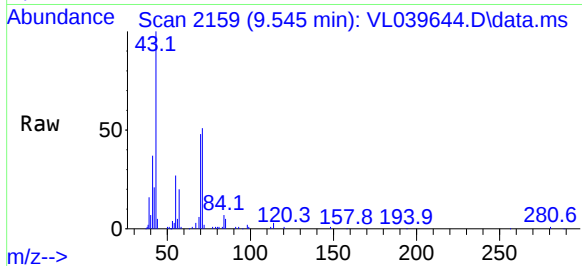




#51
2-Hexanone
Concen: 0.840 ppbv
RT: 9.545 min Scan# 2168
Delta R.T. -0.012 min
Lab File: VL039644.D
Acq: 21 Sep 2022 20:58

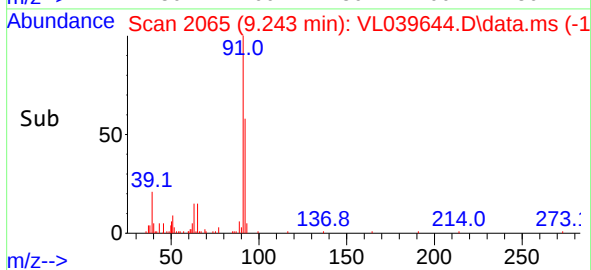
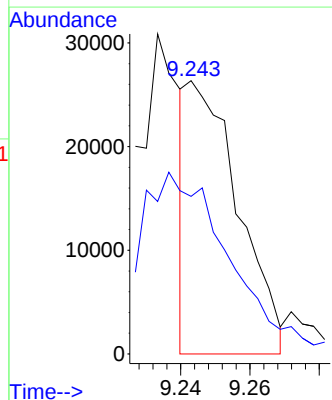
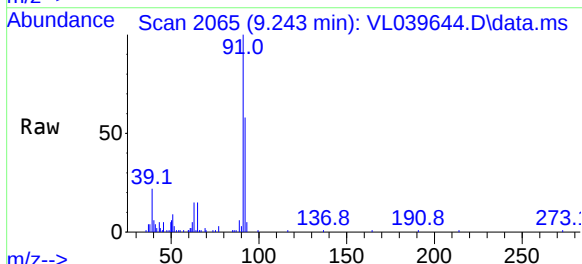
Instrument :
MSVOA_L
ClientSampleId :
C0PF4DL

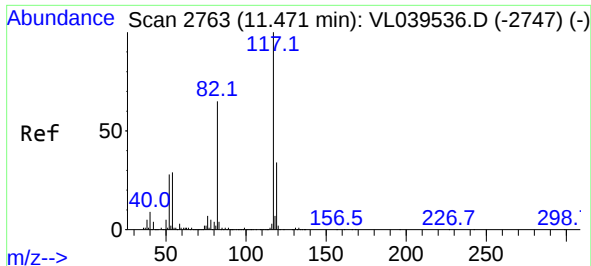
Tgt Ion: 43 Resp: 143655
Ion Ratio Lower Upper
43 100
58 0.8 38.4 57.6#
98 1.9 0.3 0.5#



#53
Toluene
Concen: 0.106 ppbv
RT: 9.243 min Scan# 2065
Delta R.T. 0.017 min
Lab File: VL039644.D
Acq: 21 Sep 2022 20:58

Tgt Ion: 91 Resp: 27059
Ion Ratio Lower Upper
91 100
92 0.0 48.2 72.2#



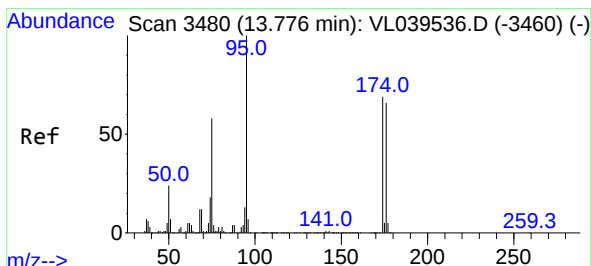
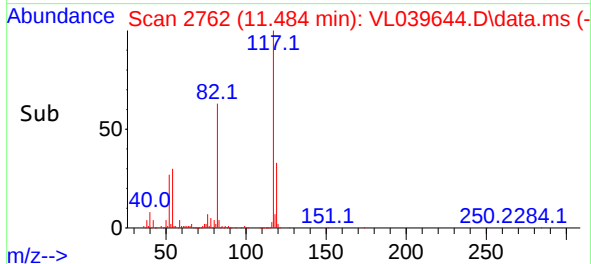
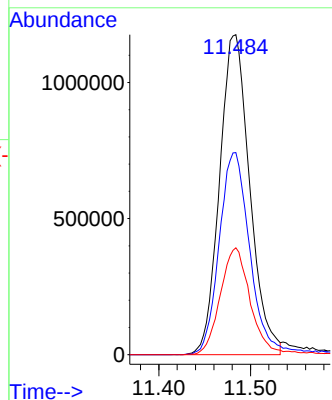
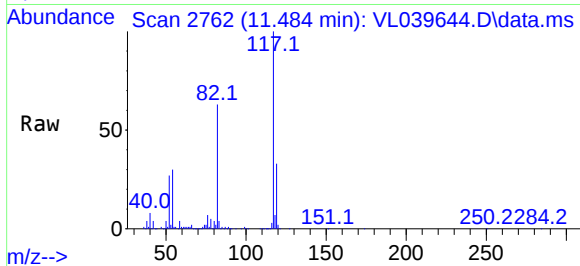


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.484 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL039644.D
Acq: 21 Sep 2022 20:58

Instrument :
MSVOA_L
ClientSampleId :
C0PF4DL

Tgt Ion:117 Resp: 2689462

Ion	Ratio	Lower	Upper
117	100		
82	65.8	50.8	76.2
119	34.1	24.1	36.1



#68
1-Bromo-4-Fluorobenzene
Concen: 10.155 ppbv
RT: 13.793 min Scan# 3480
Delta R.T. 0.017 min
Lab File: VL039644.D
Acq: 21 Sep 2022 20:58

Tgt Ion: 95 Resp: 2038887

Ion	Ratio	Lower	Upper
95	100		
174	71.9	55.9	83.9
175	5.5	4.2	6.4

