

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080923\
 Data File : VL040614.D
 Acq On : 9 Aug 2023 20:40
 Operator : SY/MD
 Sample : 03950-05
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

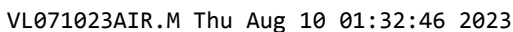
Quant Time: Aug 10 01:32:31 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL071023AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Mon Jul 10 16:32:00 2023
 Response via : Initial Calibration

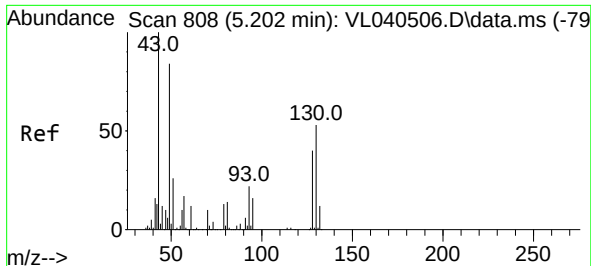
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	5.189	49	863533	10.000	ppbv	-0.01
33) 1,4-Difluorobenzene	6.655	114	2049925	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.475	117	1777346	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.783	95	1523914	10.834	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	108.300%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.716	85	56073	0.325	ppbv #	87
3) Chlorodifluoromethane	2.658	51	98287	0.718	ppbv	98
4) Chloromethane	2.803	50	29793	0.549	ppbv	97
9) Propene	2.690	41	25558	0.545	ppbv	94
11) Trichlorofluoromethane	3.555	101	38378	0.275	ppbv	91
12) 1,1,2-Trichlorotrifluo...	4.063	101	8453	0.086	ppbv	98
13) Ethanol	3.240	45	47080	4.618	ppbv #	37
15) Acetone	3.459	43	651398	6.553	ppbv	99
16) 1,3-Butadiene	2.957	39	3042	0.061	ppbv #	73
17) tert-Butyl alcohol	3.899	59	3110	0.030	ppbv #	71
19) Isopropyl Alcohol	3.581	45	59132	1.036	ppbv #	69
20) Methylene Chloride	3.925	84	686756	16.243	ppbv	99
25) Ethyl Acetate	5.211	43	222551	1.176	ppbv #	77
26) Hexane	5.211	57	307700	3.500	ppbv #	40
29) Chloroform	5.269	83	4863	0.033	ppbv #	77
34) 2-Butanone	4.790	43	8046	0.079	ppbv #	6
36) Benzene	6.375	78	7525	0.046	ppbv	94
39) 1,2-Dichloropropane	6.655	63	552671	8.704	ppbv #	27
41) Tetrahydrofuran	5.208	42	125605	2.125	ppbv #	46
53) Toluene	9.217	91	8677	0.048	ppbv #	20

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

Quant Time: Aug 10 01:32:31 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL071023AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Mon Jul 10 16:32:00 2023
Response via : Initial Calibration

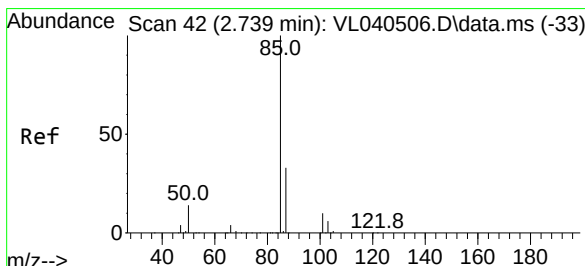
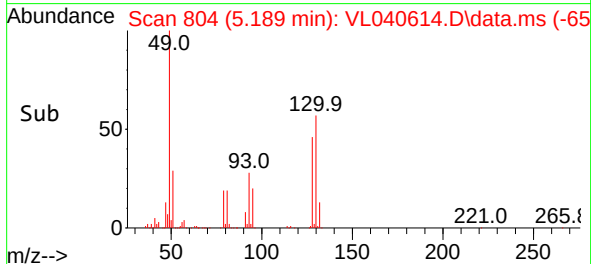
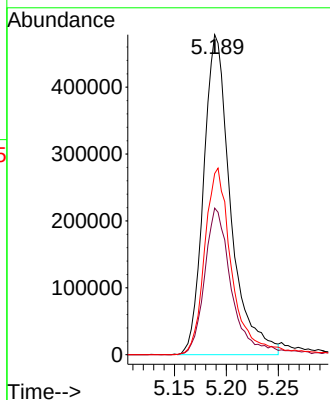
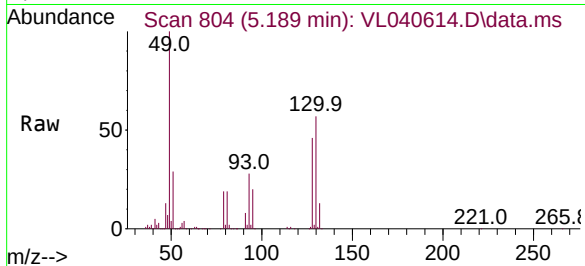




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.189 min Scan# 80
 Delta R.T. -0.013 min
 Lab File: VL040614.D
 Acq: 9 Aug 2023 20:40

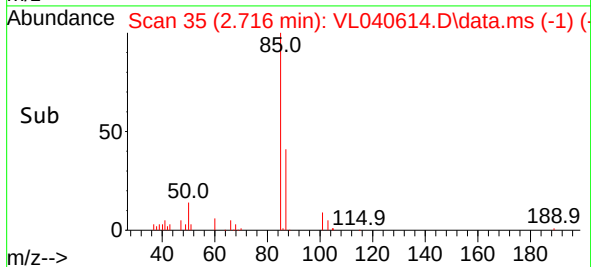
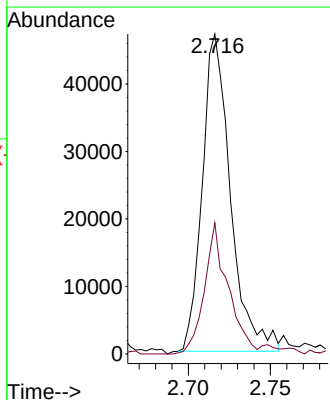
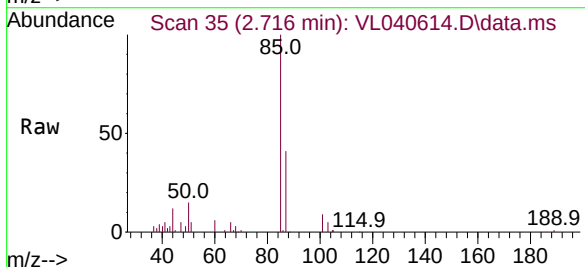
Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

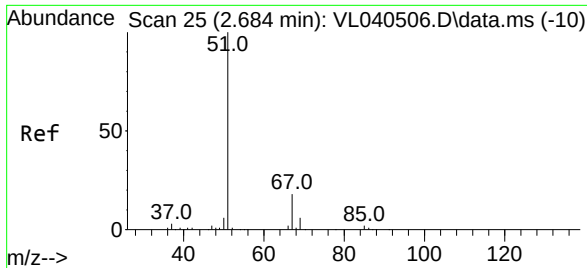
Tgt Ion: 49 Resp: 863533
 Ion Ratio Lower Upper
 49 100
 128 46.5 25.1 75.4
 130 60.3 31.6 94.7



#2
 Dichlorodifluoromethane
 Concen: 0.325 ppbv
 RT: 2.716 min Scan# 35
 Delta R.T. -0.022 min
 Lab File: VL040614.D
 Acq: 9 Aug 2023 20:40

Tgt Ion: 85 Resp: 56073
 Ion Ratio Lower Upper
 85 100
 87 41.0 26.8 40.2#

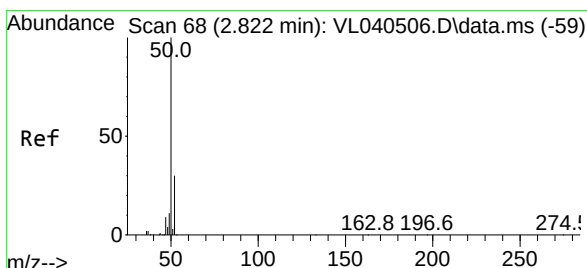
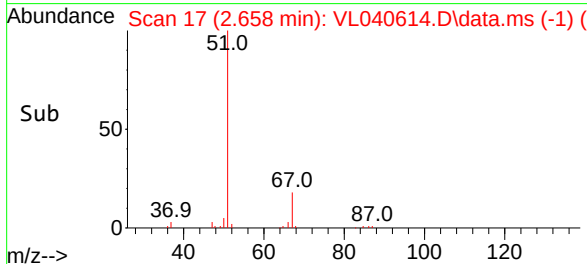
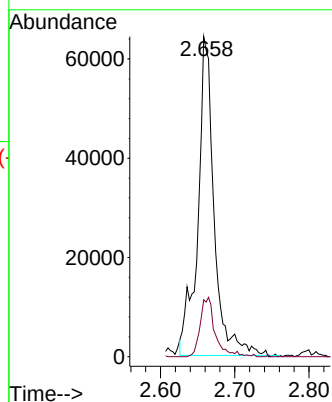
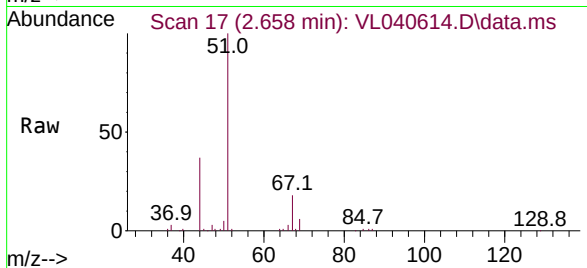




#3
Chlorodifluoromethane
Concen: 0.718 ppbv
RT: 2.658 min Scan# 11
Delta R.T. -0.026 min
Lab File: VL040614.D
Acq: 9 Aug 2023 20:40

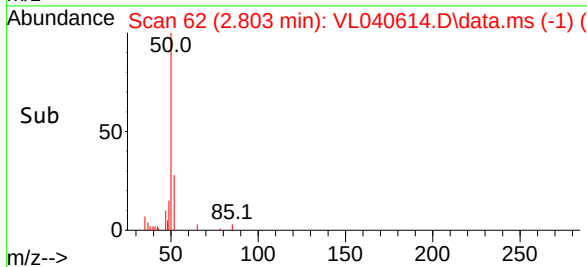
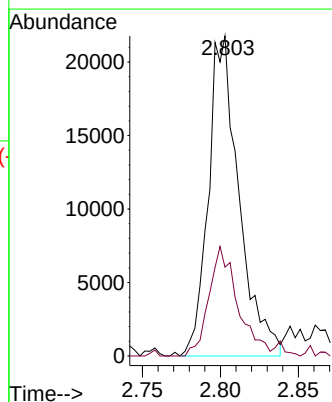
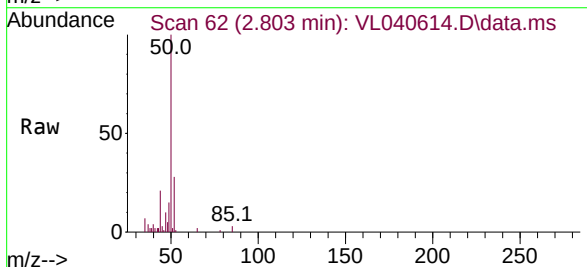
Instrument :
MSVOA_L
ClientSampleId :
OA1

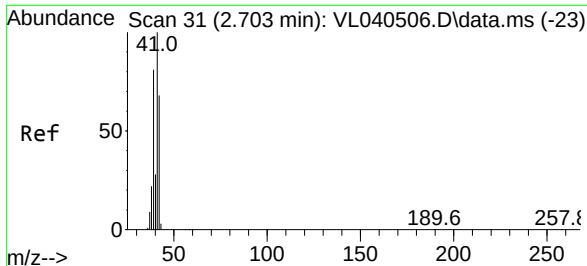
Tgt Ion: 51 Resp: 98287
Ion Ratio Lower Upper
51 100
67 17.2 14.6 21.8



#4
Chloromethane
Concen: 0.549 ppbv
RT: 2.803 min Scan# 62
Delta R.T. -0.019 min
Lab File: VL040614.D
Acq: 9 Aug 2023 20:40

Tgt Ion: 50 Resp: 29793
Ion Ratio Lower Upper
50 100
52 28.8 24.4 36.6

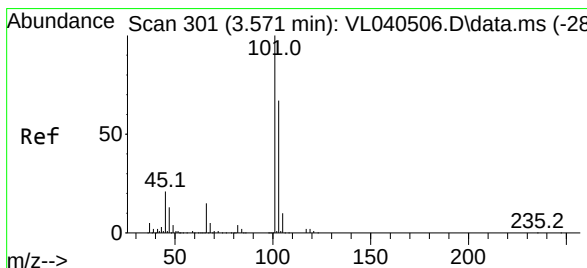
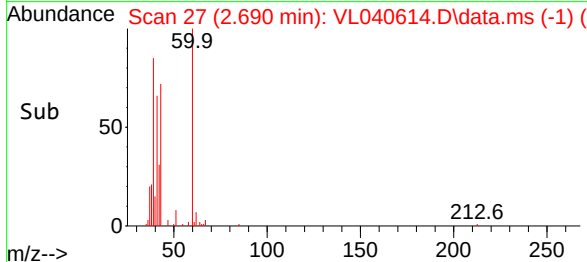
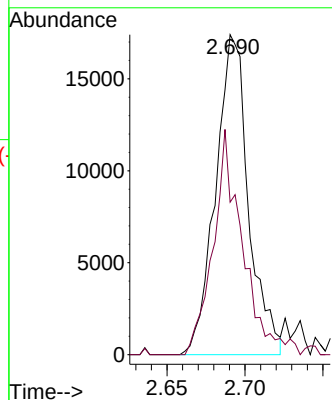
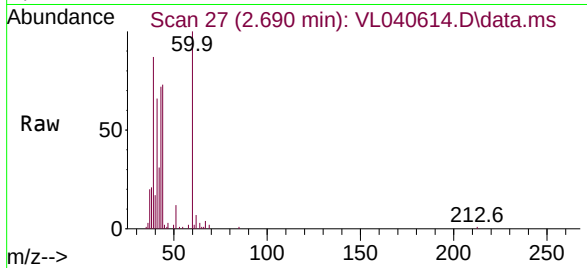




#9
 Propene
 Concen: 0.545 ppbv
 RT: 2.690 min Scan# 21
 Delta R.T. -0.013 min
 Lab File: VL040614.D
 Acq: 9 Aug 2023 20:40

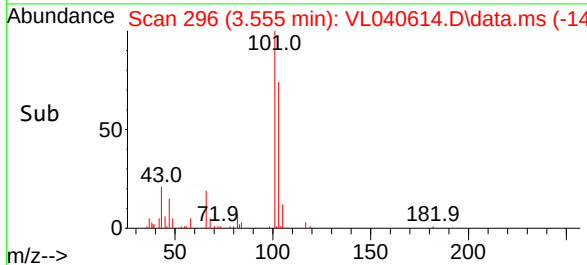
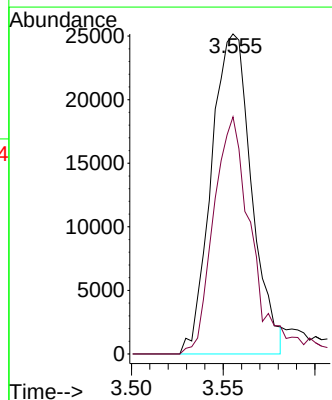
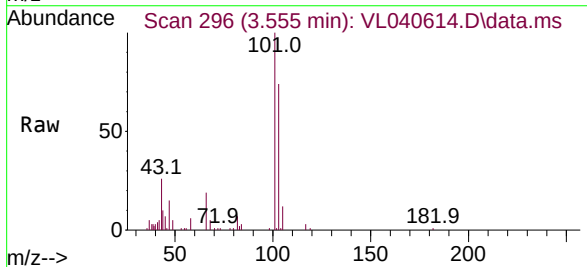
Instrument :
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 ClientSampleId :
 OA1

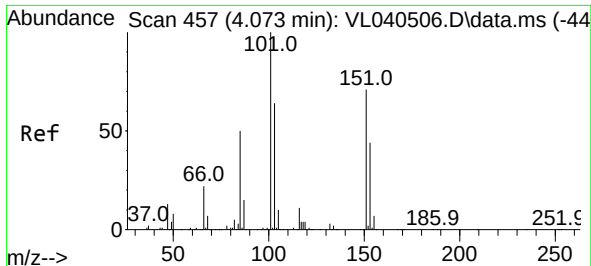
Tgt Ion: 41 Resp: 25558
 Ion Ratio Lower Upper
 41 100
 42 63.6 55.0 82.6



#11
 Trichlorofluoromethane
 Concen: 0.275 ppbv
 RT: 3.555 min Scan# 296
 Delta R.T. -0.016 min
 Lab File: VL040614.D
 Acq: 9 Aug 2023 20:40

Tgt Ion: 101 Resp: 38378
 Ion Ratio Lower Upper
 101 100
 103 74.1 53.4 80.0

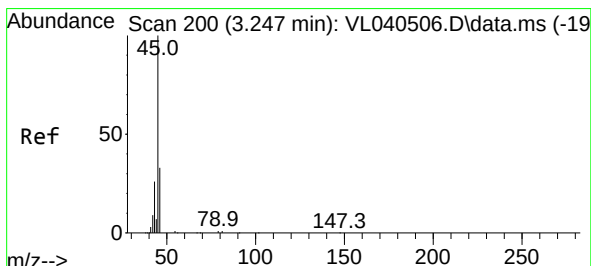
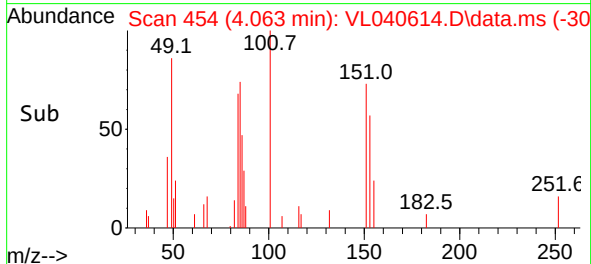
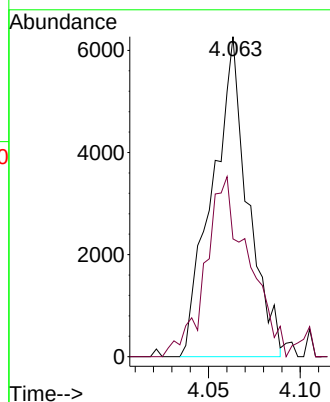
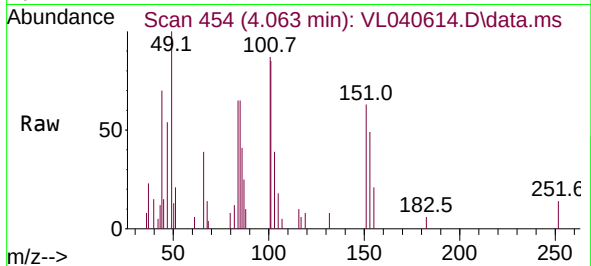




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.086 ppbv
RT: 4.063 min Scan# 41
Delta R.T. -0.010 min
Lab File: VL040614.D
Acq: 9 Aug 2023 20:40

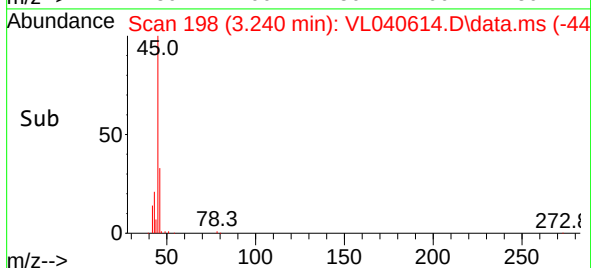
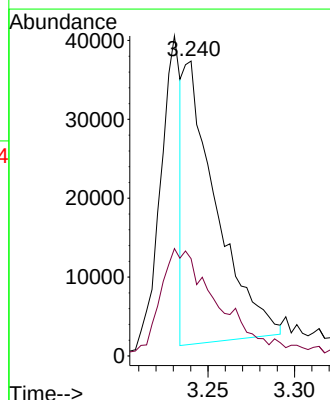
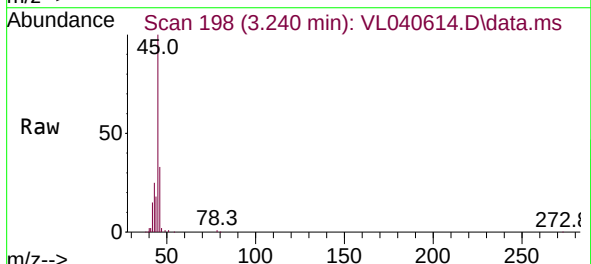
Instrument :
MSVOA_L
ClientSampleId :
OA1

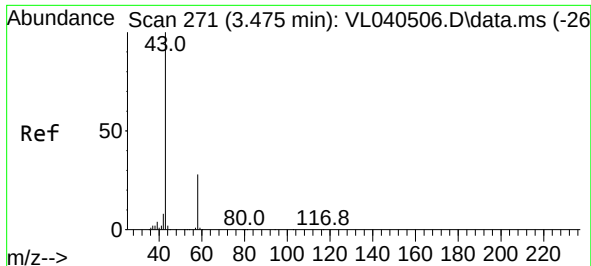
Tgt Ion:101 Resp: 8453
Ion Ratio Lower Upper
101 100
151 71.1 58.2 87.4



#13
Ethanol
Concen: 4.618 ppbv
RT: 3.240 min Scan# 198
Delta R.T. -0.006 min
Lab File: VL040614.D
Acq: 9 Aug 2023 20:40

Tgt Ion: 45 Resp: 47080
Ion Ratio Lower Upper
45 100
46 0.0 15.3 61.1#

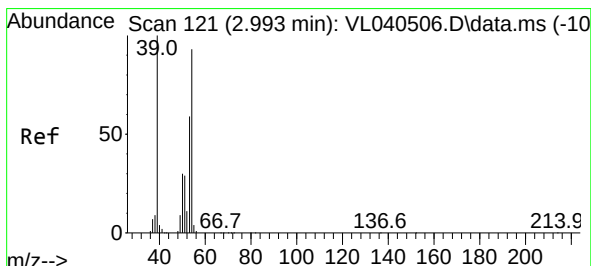
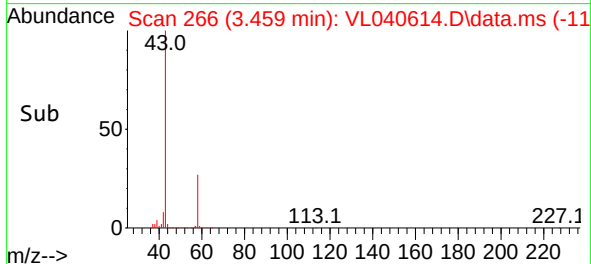
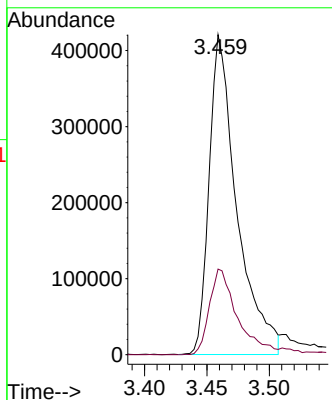
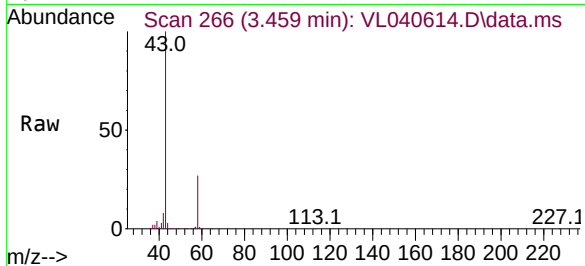




#15
Acetone
Concen: 6.553 ppbv
RT: 3.459 min Scan# 21
Delta R.T. -0.016 min
Lab File: VL040614.D
Acq: 9 Aug 2023 20:40

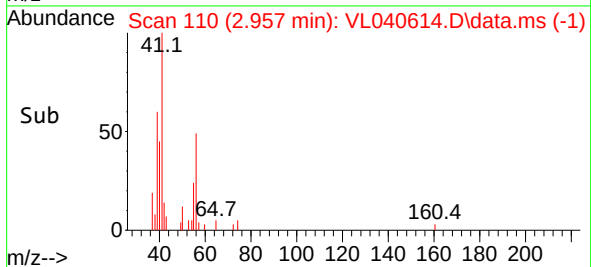
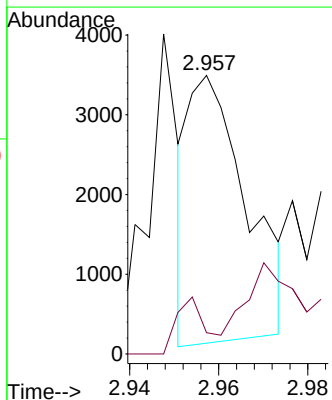
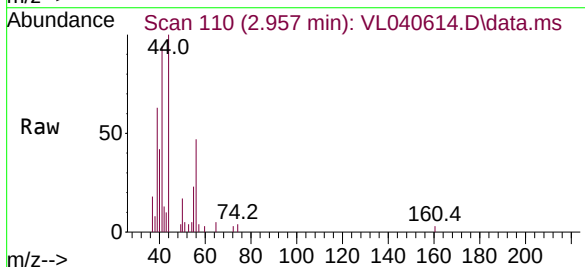
Instrument :
MSVOA_L
ClientSampleId :
OA1

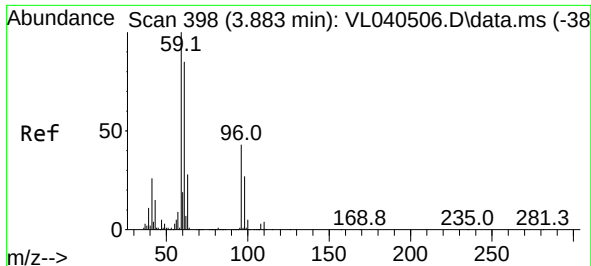
Tgt Ion: 43 Resp: 651398
Ion Ratio Lower Upper
43 100
58 28.9 22.9 34.3



#16
1,3-Butadiene
Concen: 0.061 ppbv
RT: 2.957 min Scan# 110
Delta R.T. -0.035 min
Lab File: VL040614.D
Acq: 9 Aug 2023 20:40

Tgt Ion: 39 Resp: 3042
Ion Ratio Lower Upper
39 100
54 59.3 66.6 100.0#





#17

tert-Butyl alcohol

Concen: 0.030 ppbv

RT: 3.899 min Scan# 403

Delta R.T. 0.016 min

Lab File: VL040614.D

Acq: 9 Aug 2023 20:40

Instrument :

MSVOA_L

ClientSampleId :

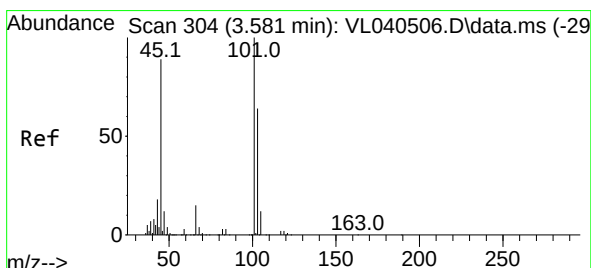
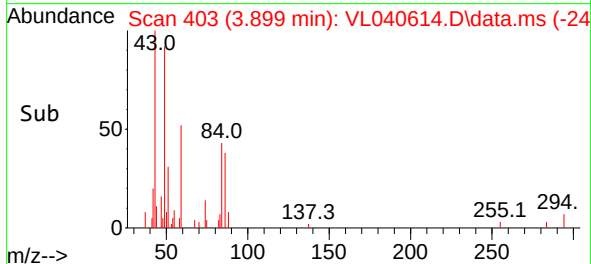
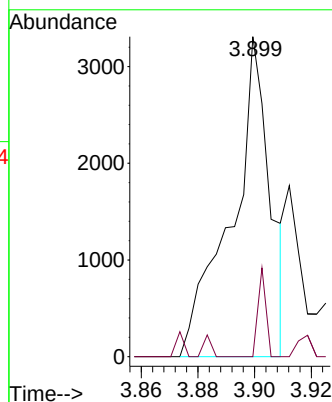
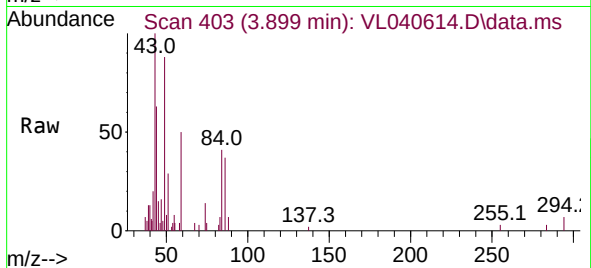
OA1

Tgt Ion: 59 Resp: 3110

Ion Ratio Lower Upper

59 100

57 0.0 8.7 13.1#



#19

Isopropyl Alcohol

Concen: 1.036 ppbv

RT: 3.581 min Scan# 304

Delta R.T. 0.000 min

Lab File: VL040614.D

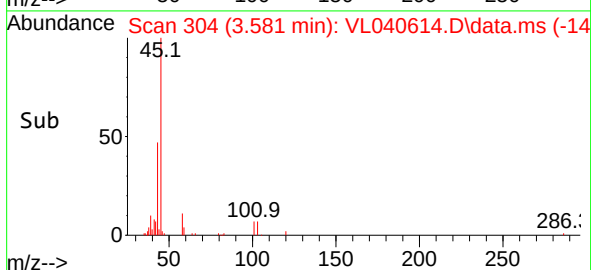
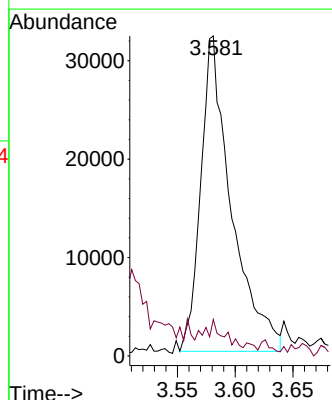
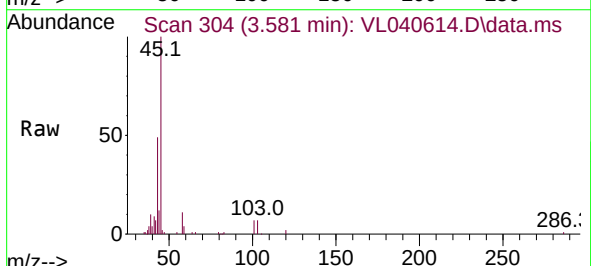
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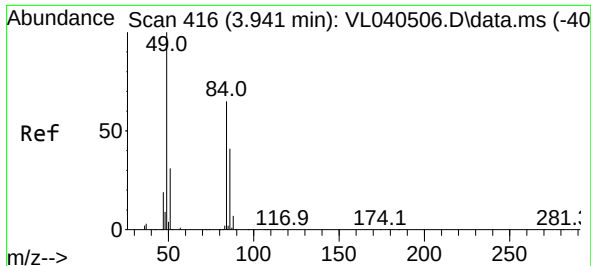
Tgt Ion: 45 Resp: 59132

Ion Ratio Lower Upper

45 100

58 13.4 1.1 1.7#

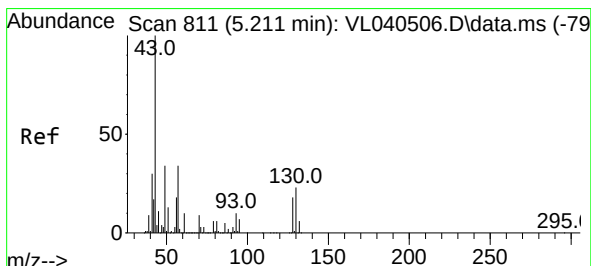
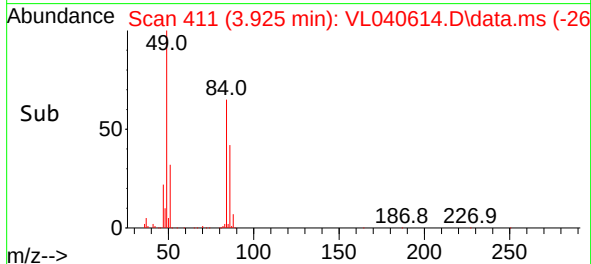
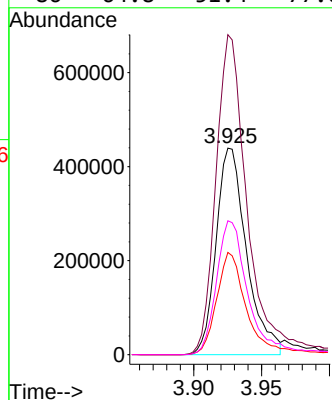
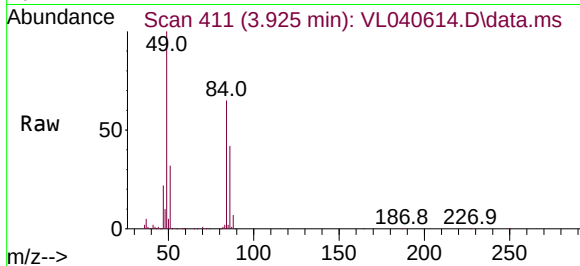




#20
Methylene Chloride
Concen: 16.243 ppbv
RT: 3.925 min Scan# 416
Delta R.T. -0.016 min
Lab File: VL040614.D
Acq: 9 Aug 2023 20:40

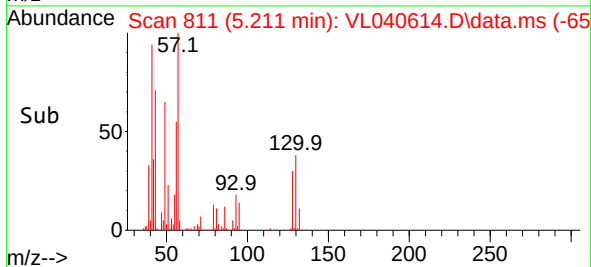
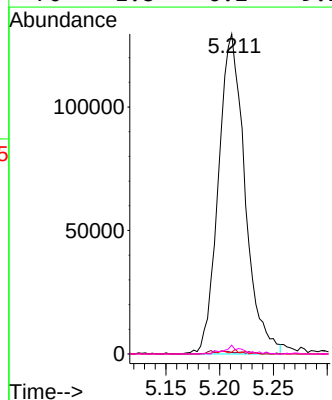
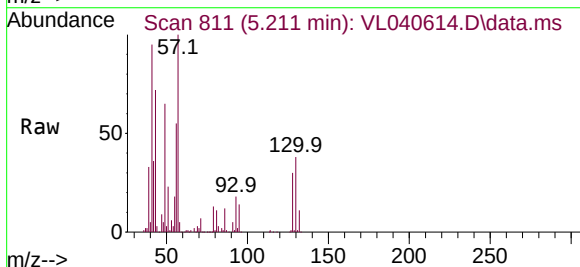
Instrument :
MSVOA_L
ClientSampleId :
OA1

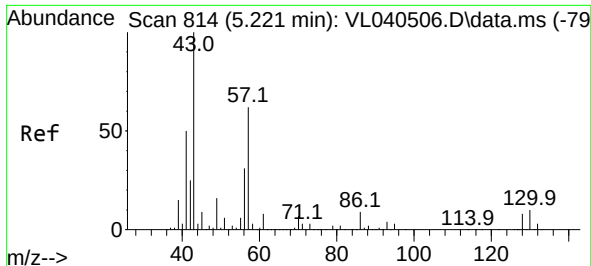
Tgt Ion: 84 Resp: 686756
Ion Ratio Lower Upper
84 100
49 155.0 123.4 185.2
51 49.5 38.3 57.5
86 64.8 51.4 77.0



#25
Ethyl Acetate
Concen: 1.176 ppbv
RT: 5.211 min Scan# 811
Delta R.T. 0.000 min
Lab File: VL040614.D
Acq: 9 Aug 2023 20:40

Tgt Ion: 43 Resp: 222551
Ion Ratio Lower Upper
43 100
45 1.1 8.2 12.4#
61 0.9 8.3 12.5#
70 1.8 6.2 9.2#

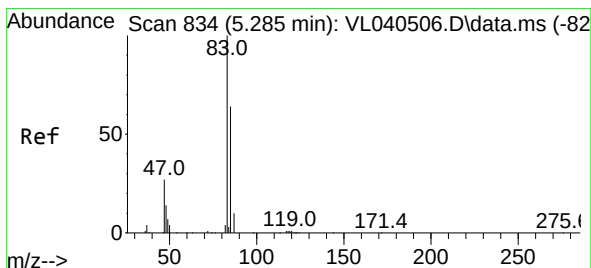
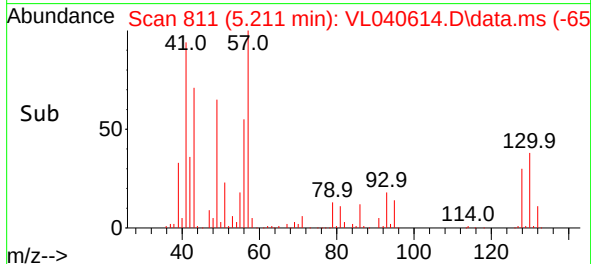
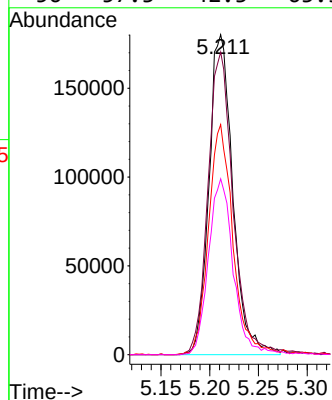
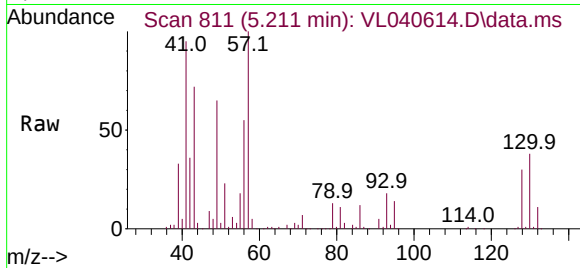




#26
Hexane
Concen: 3.500 ppbv
RT: 5.211 min Scan# 814
Delta R.T. -0.010 min
Lab File: VL040614.D
Acq: 9 Aug 2023 20:40

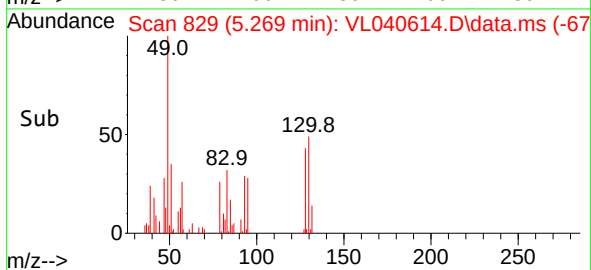
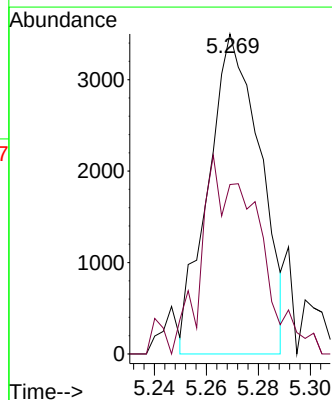
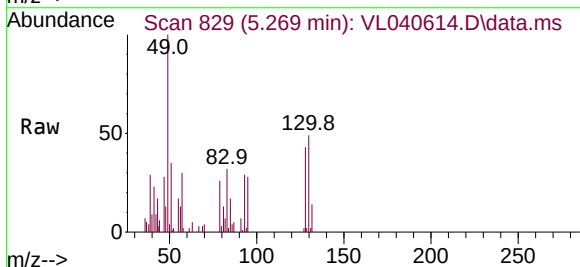
Instrument :
MSVOA_L
ClientSampleId :
OA1

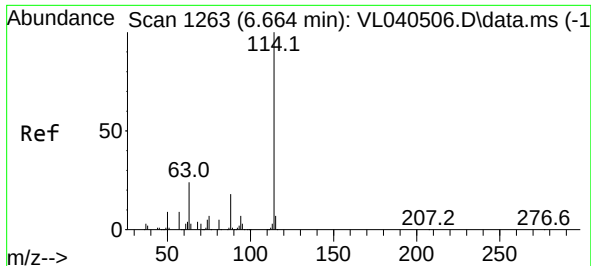
Tgt Ion: 57 Resp: 307700
Ion Ratio Lower Upper
57 100
41 100.7 69.5 104.3
43 74.0 177.1 265.7#
56 57.3 42.3 63.5



#29
Chloroform
Concen: 0.033 ppbv
RT: 5.269 min Scan# 829
Delta R.T. -0.016 min
Lab File: VL040614.D
Acq: 9 Aug 2023 20:40

Tgt Ion: 83 Resp: 4863
Ion Ratio Lower Upper
83 100
85 46.1 51.1 76.7#

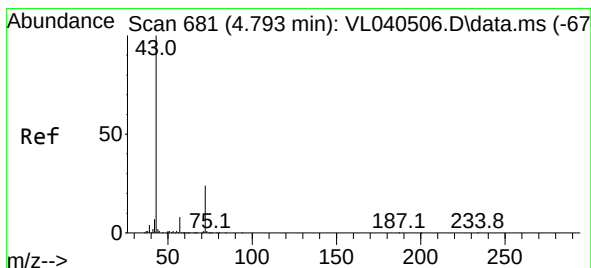
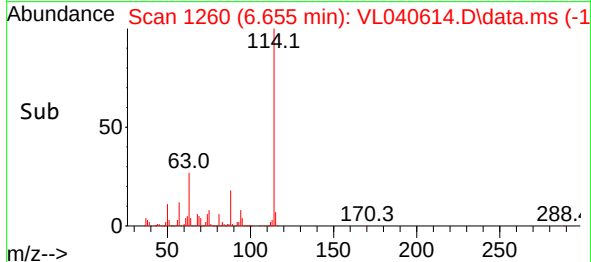
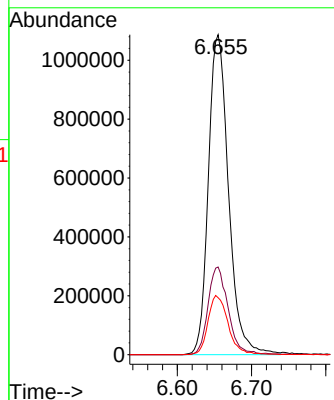
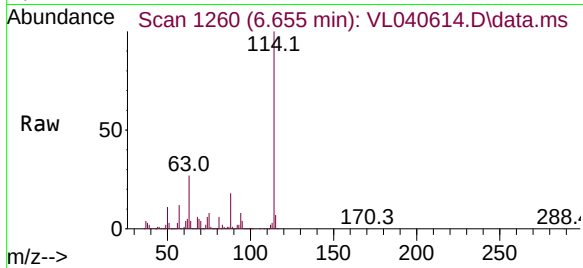




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.655 min Scan# 11
Delta R.T. -0.010 min
Lab File: VL040614.D
Acq: 9 Aug 2023 20:40

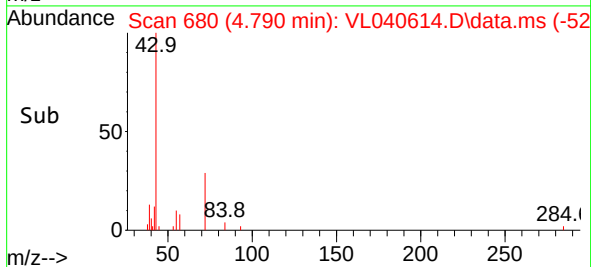
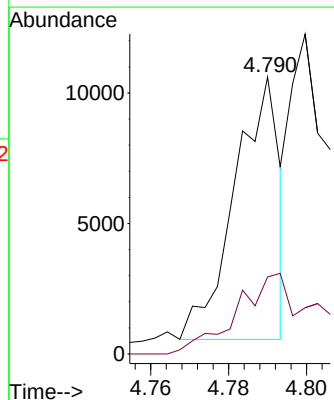
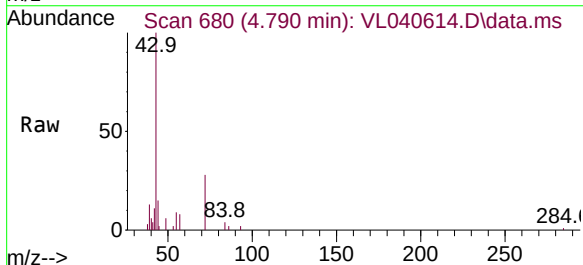
Instrument :
MSVOA_L
ClientSampleId :
OA1

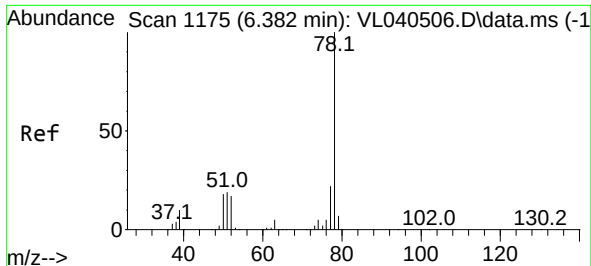
Tgt Ion:114 Resp: 2049925
Ion Ratio Lower Upper
114 100
63 27.7 19.6 29.4
88 18.6 14.2 21.2



#34
2-Butanone
Concen: 0.079 ppbv
RT: 4.790 min Scan# 680
Delta R.T. -0.003 min
Lab File: VL040614.D
Acq: 9 Aug 2023 20:40

Tgt Ion: 43 Resp: 8046
Ion Ratio Lower Upper
43 100
72 70.1 19.1 28.7#





#36

Benzene

Concen: 0.046 ppbv

RT: 6.375 min Scan# 1175

Delta R.T. -0.006 min

Lab File: VL040614.D

Acq: 9 Aug 2023 20:40

Instrument :

MSVOA_L

ClientSampleId :

OA1

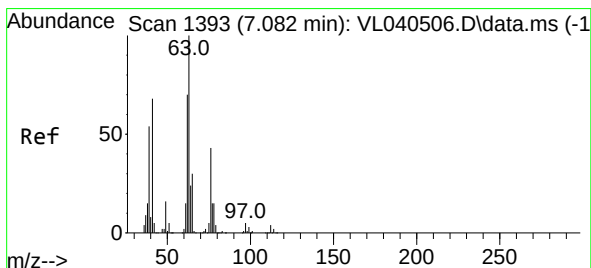
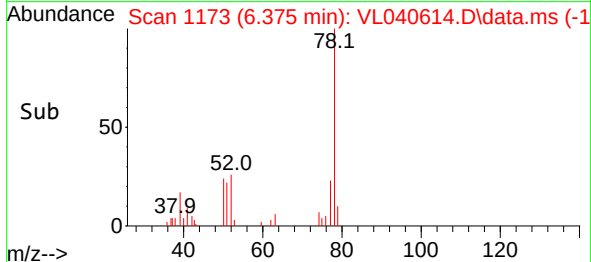
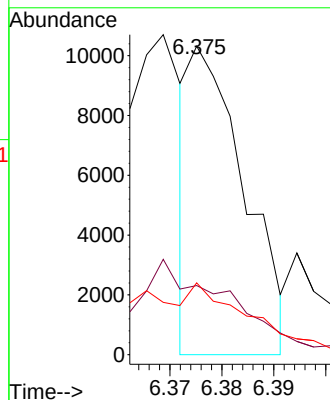
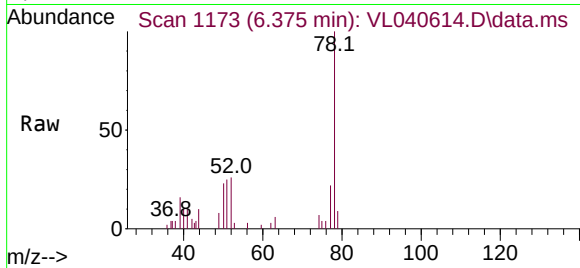
Tgt Ion: 78 Resp: 7525

Ion Ratio Lower Upper

78 100

77 19.0 17.4 26.0

50 20.5 14.4 21.6



#39

1,2-Dichloropropane

Concen: 8.704 ppbv

RT: 6.655 min Scan# 1260

Delta R.T. -0.428 min

Lab File: VL040614.D

Acq: 9 Aug 2023 20:40

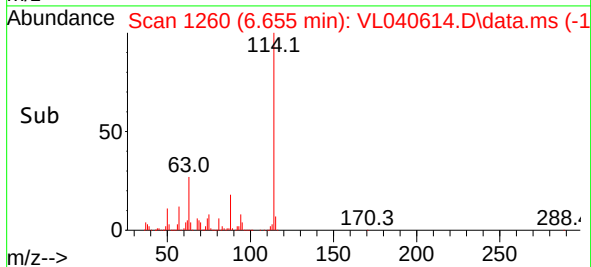
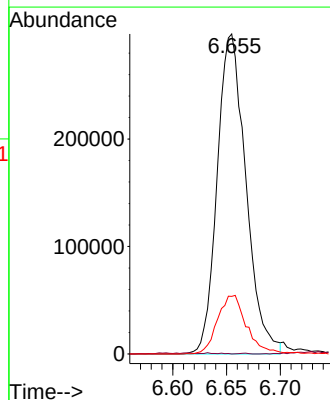
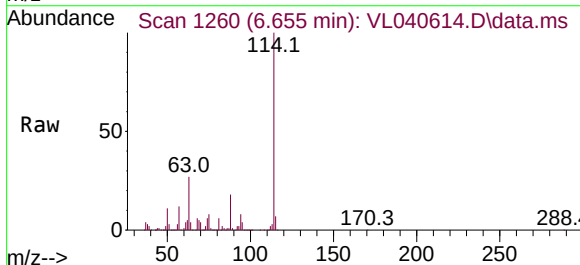
Tgt Ion: 63 Resp: 552671

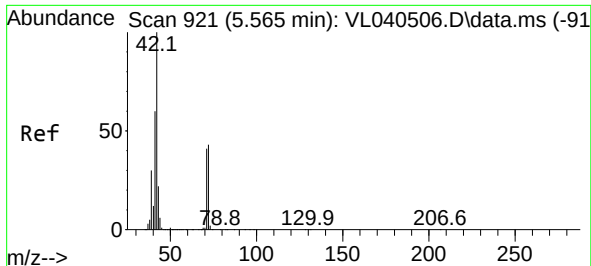
Ion Ratio Lower Upper

63 100

41 0.0 54.3 81.5#

62 18.0 55.6 83.4#

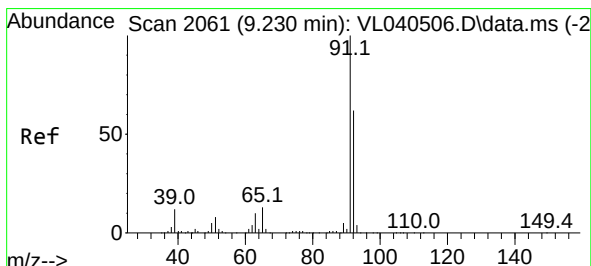
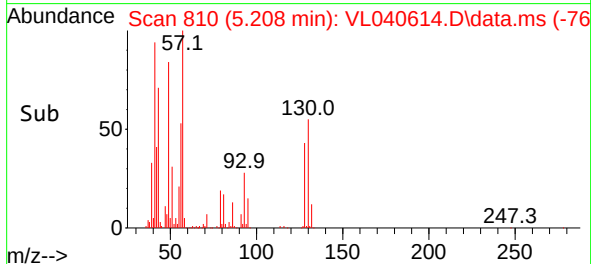
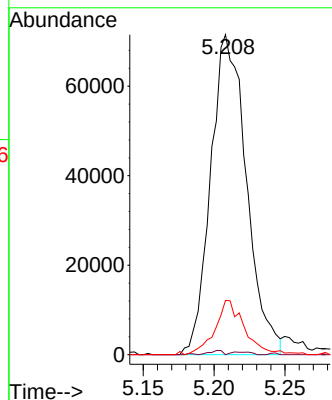
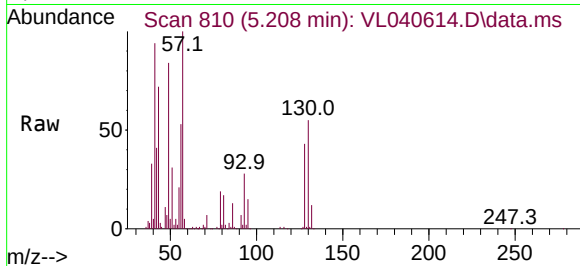




#41
Tetrahydrofuran
Concen: 2.125 ppbv
RT: 5.208 min Scan# 81
Delta R.T. -0.357 min
Lab File: VL040614.D
Acq: 9 Aug 2023 20:40

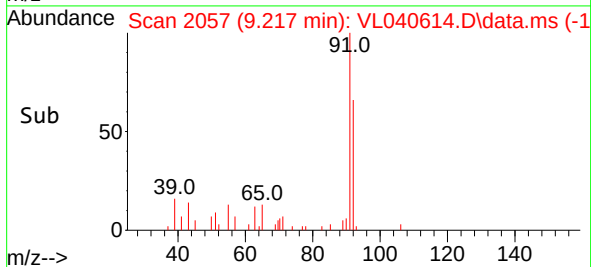
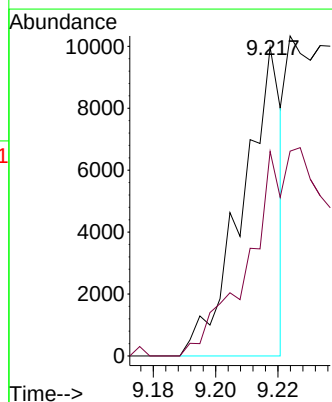
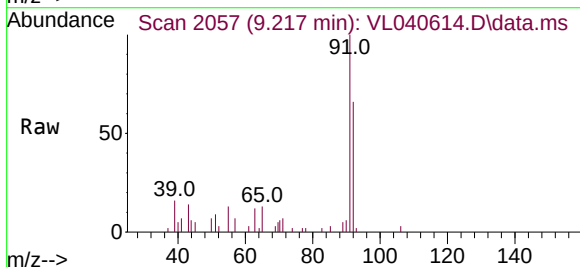
Instrument :
MSVOA_L
ClientSampleId :
OA1

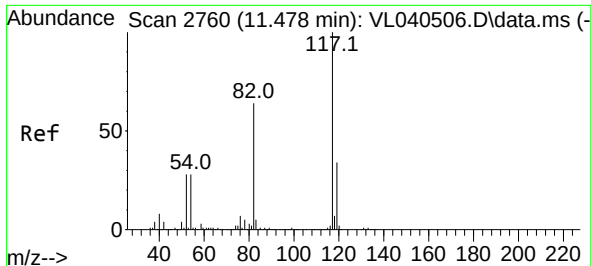
Tgt Ion: 42 Resp: 125605
Ion Ratio Lower Upper
42 100
72 1.1 33.8 50.8#
71 14.3 33.0 49.6#



#53
Toluene
Concen: 0.048 ppbv
RT: 9.217 min Scan# 2057
Delta R.T. -0.013 min
Lab File: VL040614.D
Acq: 9 Aug 2023 20:40

Tgt Ion: 91 Resp: 8677
Ion Ratio Lower Upper
91 100
92 0.0 49.1 73.7#

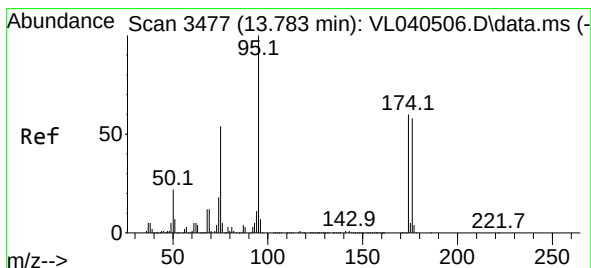
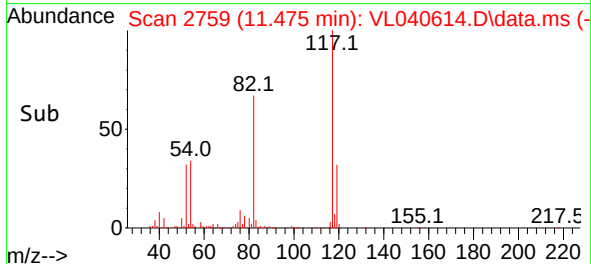
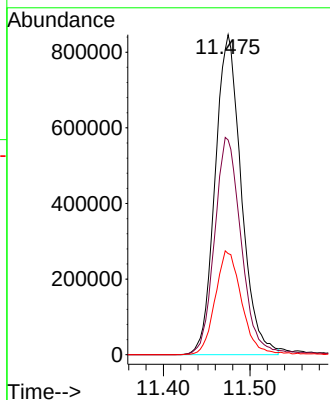
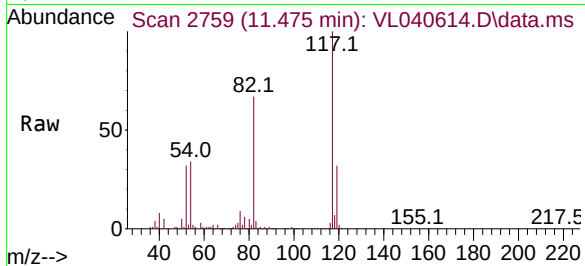




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.475 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL040614.D
Acq: 9 Aug 2023 20:40

Instrument :
MSVOA_1
ClientSampleId :
OA1

Tgt Ion:117 Resp: 1777346
Ion Ratio Lower Upper
117 100
82 70.1 50.2 75.4
119 33.0 26.9 40.3



#68
1-Bromo-4-Fluorobenzene
Concen: 10.834 ppbv
RT: 13.783 min Scan# 3477
Delta R.T. 0.000 min
Lab File: VL040614.D
Acq: 9 Aug 2023 20:40

Tgt Ion: 95 Resp: 1523914
Ion Ratio Lower Upper
95 100
174 59.4 50.6 75.8
175 4.0 3.7 5.5

