

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020724\
 Data File : VL041041.D
 Acq On : 7 Feb 2024 15:21
 Operator : SY/MD
 Sample : P1392-03DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA-1DUP

Quant Time: Feb 08 02:44:34 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL012324AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Feb 08 02:04:13 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.169	49	1018204	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.629	114	2574254	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.442	117	2290942	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.751	95	1758480	10.162	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.600%

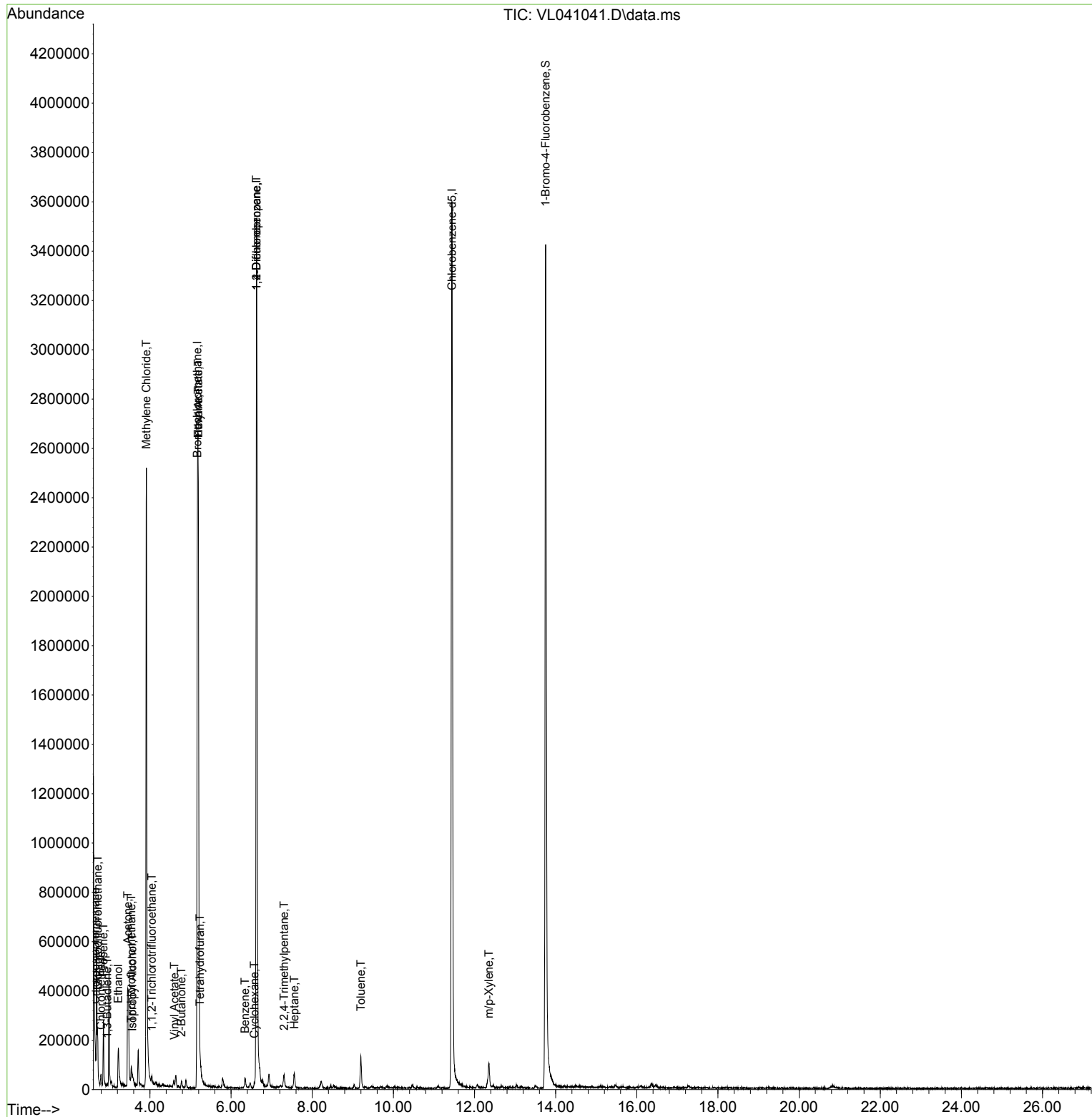
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.713	85	110008	0.489	ppbv	99
3) Chlorodifluoromethane	2.655	51	68955	0.403	ppbv #	90
4) Chloromethane	2.796	50	33706	0.525	ppbv	99
9) Propene	2.854	41	60904	1.084	ppbv	91
10) Heptane	7.561	43	20516	0.148	ppbv	97
11) Trichlorofluoromethane	3.542	101	43353	0.239	ppbv	96
12) 1,1,2-Trichlorotrifluo...	4.047	101	3307	0.025	ppbv #	1
13) Ethanol	3.221	45	192194	14.356	ppbv	94
15) Acetone	3.452	43	474642	3.645	ppbv	97
16) 1,3-Butadiene	2.948	39	3490	0.056	ppbv #	10
19) Isopropyl Alcohol	3.568	45	34191	0.454	ppbv #	1
20) Methylene Chloride	3.915	84	859863	17.162	ppbv	91
23) Vinyl Acetate	4.603	43	3637	0.027	ppbv #	11
25) Ethyl Acetate	5.192	43	545835	2.312	ppbv #	77
26) Hexane	5.192	57	753386	7.486	ppbv #	39
30) Cyclohexane	6.574	84	2749	0.033	ppbv #	1
34) 2-Butanone	4.777	43	19533	0.159	ppbv #	66
36) Benzene	6.346	78	30109	0.142	ppbv #	92
39) 1,2-Dichloropropane	6.629	63	657348	7.849	ppbv #	24
41) Tetrahydrofuran	5.234	42	4051	0.049	ppbv #	38
44) 2,2,4-Trimethylpentane	7.307	57	23432	0.066	ppbv #	25
53) Toluene	9.198	91	85180	0.366	ppbv	98
59) m/p-Xylene	12.355	91	35652	0.133	ppbv #	1

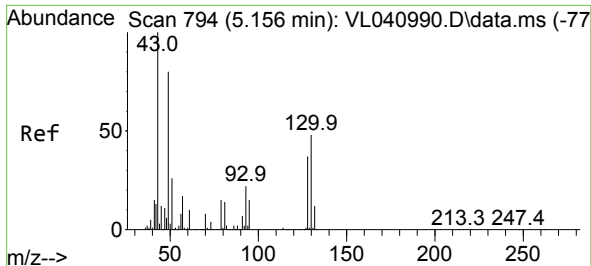
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020724\
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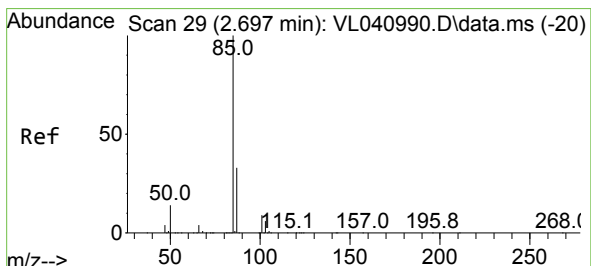
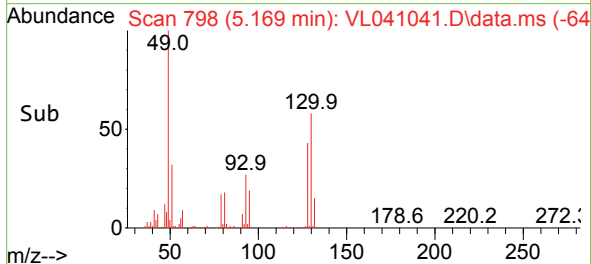
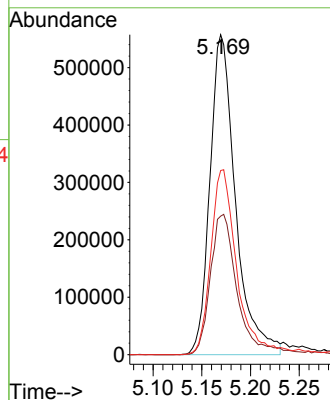
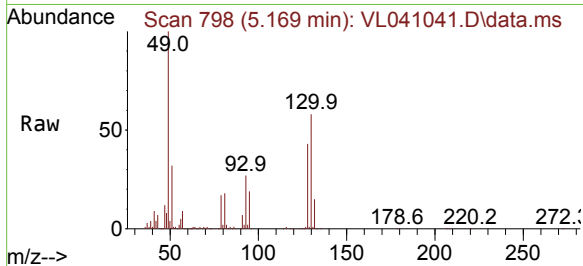




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.169 min Scan# 794
 Delta R.T. 0.003 min
 Lab File: VL041041.D
 Acq: 7 Feb 2024 15:21

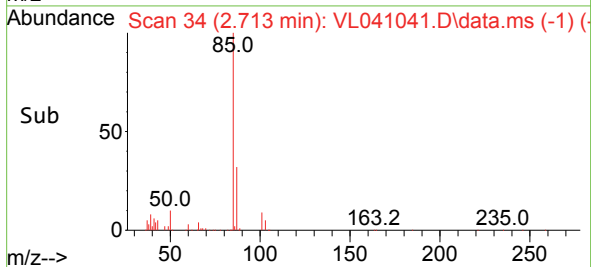
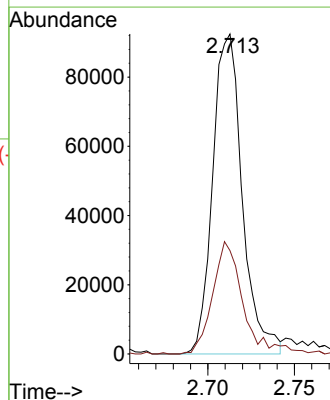
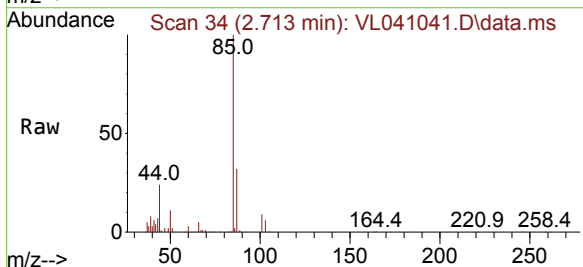
Instrument :
 MSVOA_L
 ClientSampleId :
 OA-1DUP

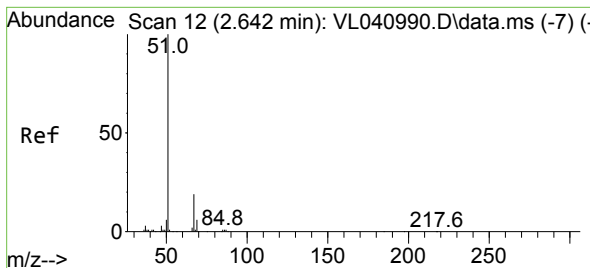
Tgt Ion: 49 Resp: 1018204
 Ion Ratio Lower Upper
 49 100
 128 47.0 23.9 71.7
 130 60.5 31.1 93.5



#2
 Dichlorodifluoromethane
 Concen: 0.489 ppbv
 RT: 2.713 min Scan# 34
 Delta R.T. 0.010 min
 Lab File: VL041041.D
 Acq: 7 Feb 2024 15:21

Tgt Ion: 85 Resp: 110008
 Ion Ratio Lower Upper
 85 100
 87 32.3 26.3 39.5





#3

Chlorodifluoromethane

Concen: 0.403 ppbv

RT: 2.655 min Scan# 1

Delta R.T. 0.007 min

Lab File: VL041041.D

Acq: 7 Feb 2024 15:21

Instrument :

MSVOA_L

ClientSampleId :

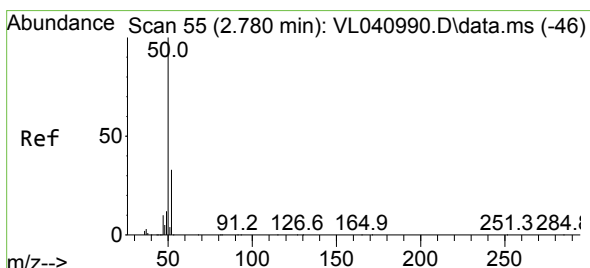
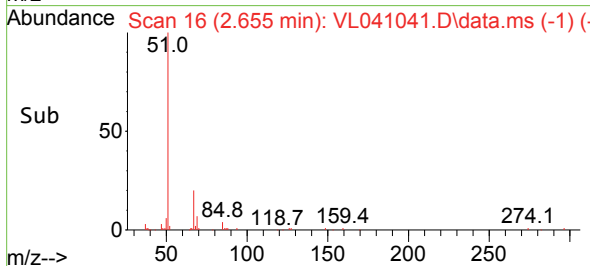
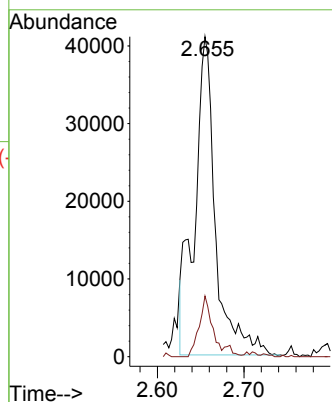
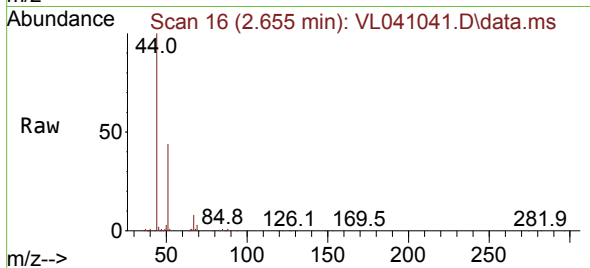
OA-1DUP

Tgt Ion: 51 Resp: 68955

Ion Ratio Lower Upper

51 100

67 14.2 14.8 22.2#



#4

Chloromethane

Concen: 0.525 ppbv

RT: 2.796 min Scan# 60

Delta R.T. 0.010 min

Lab File: VL041041.D

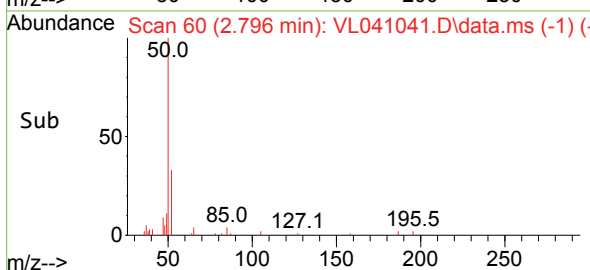
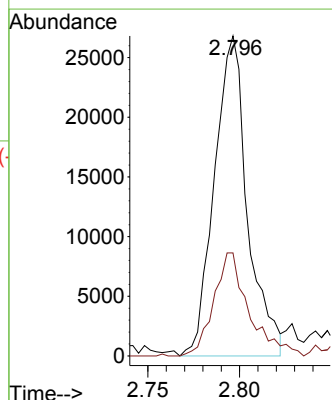
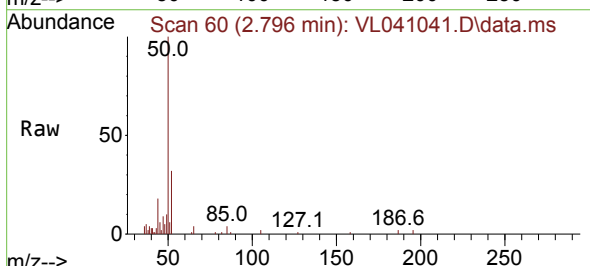
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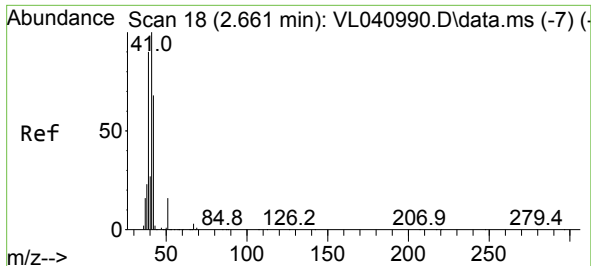
Tgt Ion: 50 Resp: 33706

Ion Ratio Lower Upper

50 100

52 32.2 26.2 39.4

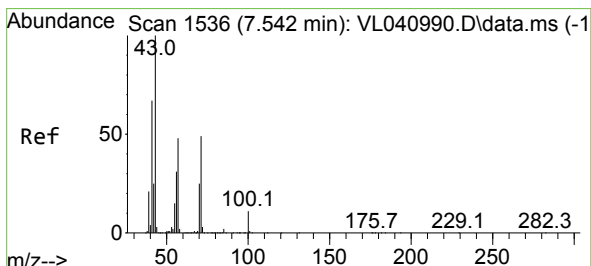
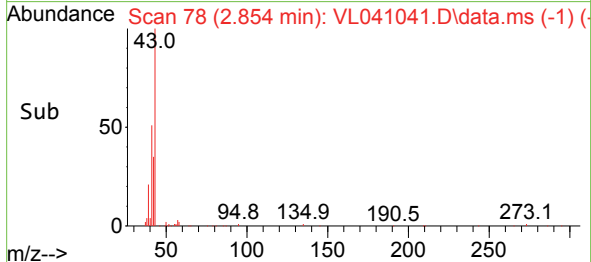
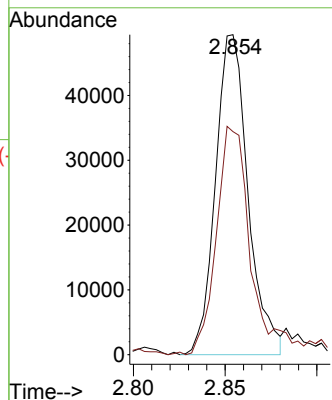
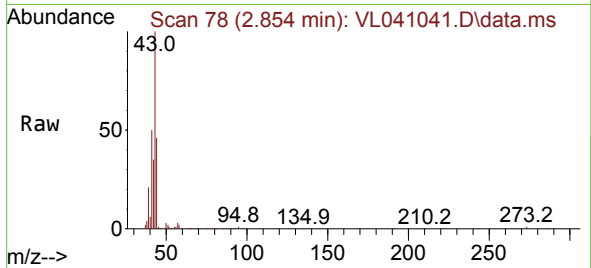




#9
 Propene
 Concen: 1.084 ppbv
 RT: 2.854 min Scan# 71
 Delta R.T. 0.187 min
 Lab File: VL041041.D
 Acq: 7 Feb 2024 15:21

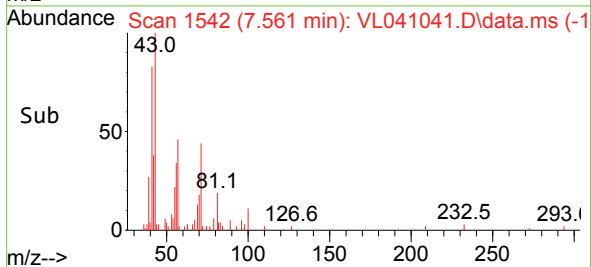
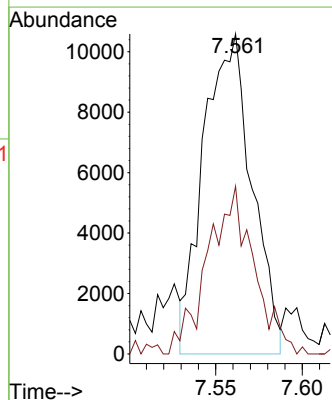
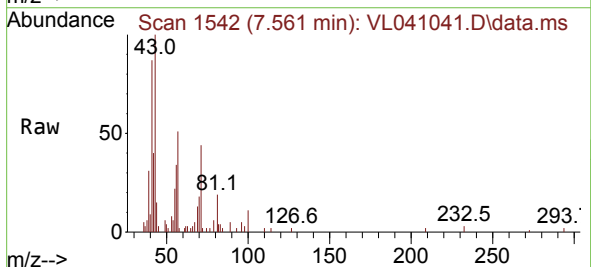
Instrument :
 MSVOA_L
 ClientSampleId :
 OA-1DUP

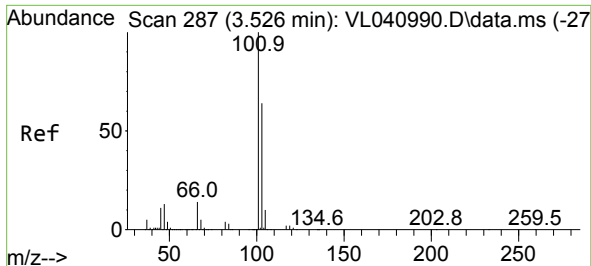
Tgt Ion: 41 Resp: 60904
 Ion Ratio Lower Upper
 41 100
 42 80.9 59.0 88.4



#10
 Heptane
 Concen: 0.148 ppbv
 RT: 7.561 min Scan# 1542
 Delta R.T. 0.010 min
 Lab File: VL041041.D
 Acq: 7 Feb 2024 15:21

Tgt Ion: 43 Resp: 20516
 Ion Ratio Lower Upper
 43 100
 57 51.6 39.4 59.2

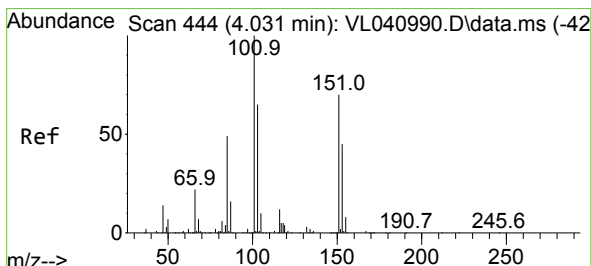
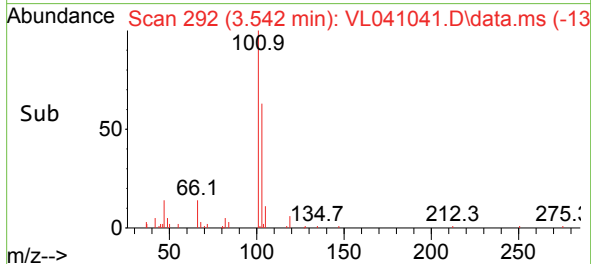
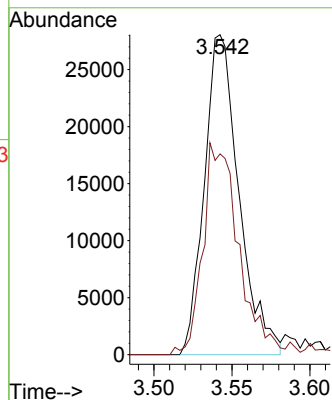
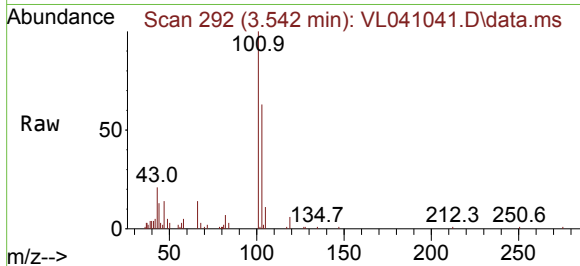




#11
 Trichlorofluoromethane
 Concen: 0.239 ppbv
 RT: 3.542 min Scan# 291
 Delta R.T. 0.010 min
 Lab File: VL041041.D
 Acq: 7 Feb 2024 15:21

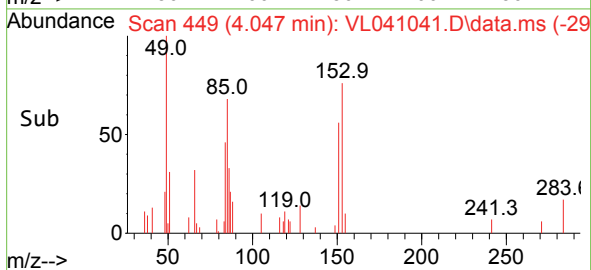
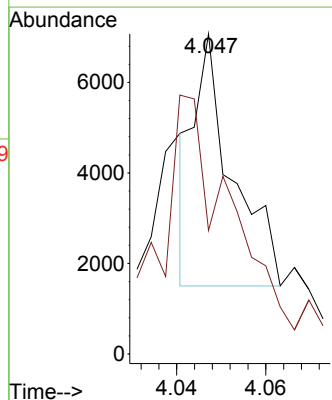
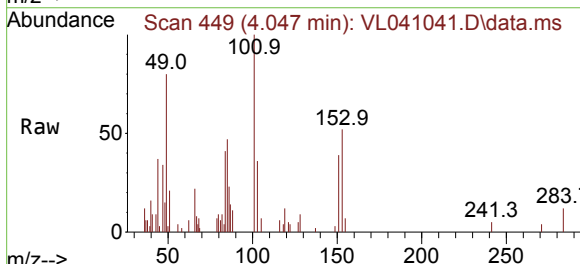
Instrument :
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 ClientSampleId :
 OA-1DUP

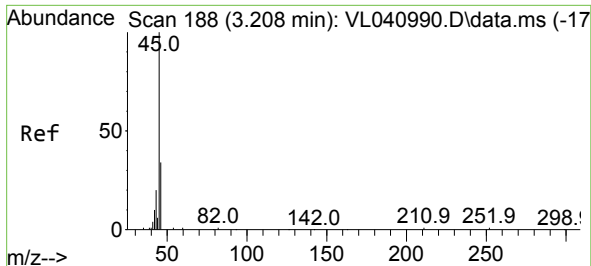
Tgt Ion:101 Resp: 43353
 Ion Ratio Lower Upper
 101 100
 103 61.4 51.4 77.2



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.025 ppbv
 RT: 4.047 min Scan# 449
 Delta R.T. 0.007 min
 Lab File: VL041041.D
 Acq: 7 Feb 2024 15:21

Tgt Ion:101 Resp: 3307
 Ion Ratio Lower Upper
 101 100
 151 224.8 56.6 85.0#

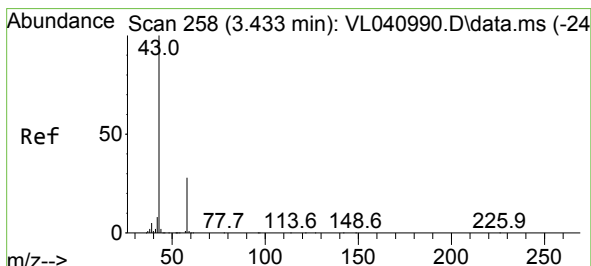
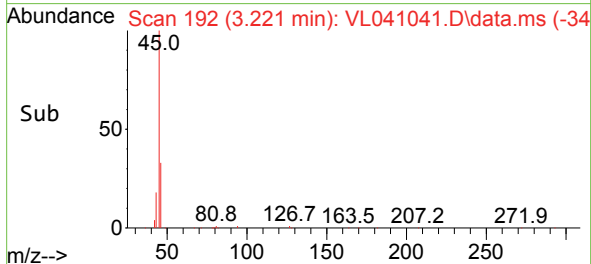
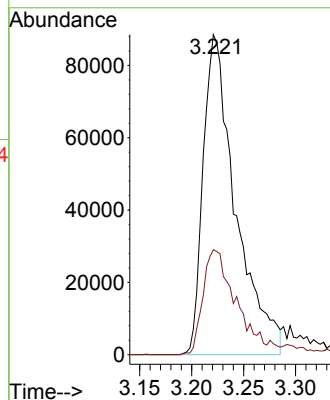
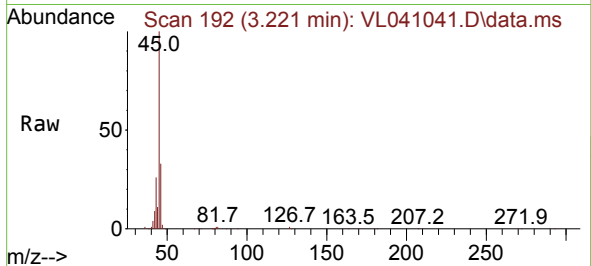




#13
Ethanol
Concen: 14.356 ppbv
RT: 3.221 min Scan# 192
Delta R.T. 0.007 min
Lab File: VL041041.D
Acq: 7 Feb 2024 15:21

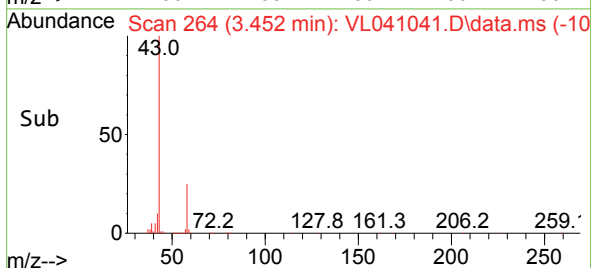
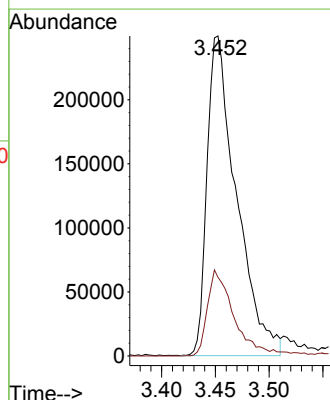
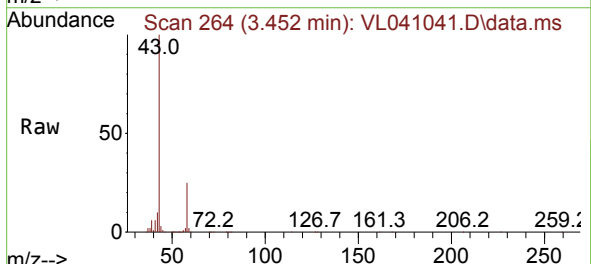
Instrument :
MSVOA_L
ClientSampleId :
OA-1DUP

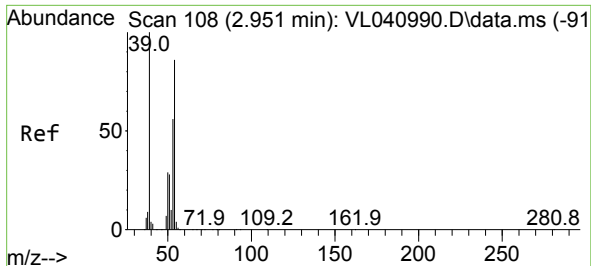
Tgt Ion: 45 Resp: 192194
Ion Ratio Lower Upper
45 100
46 36.9 16.2 64.8



#15
Acetone
Concen: 3.645 ppbv
RT: 3.452 min Scan# 264
Delta R.T. 0.013 min
Lab File: VL041041.D
Acq: 7 Feb 2024 15:21

Tgt Ion: 43 Resp: 474642
Ion Ratio Lower Upper
43 100
58 26.1 22.2 33.2

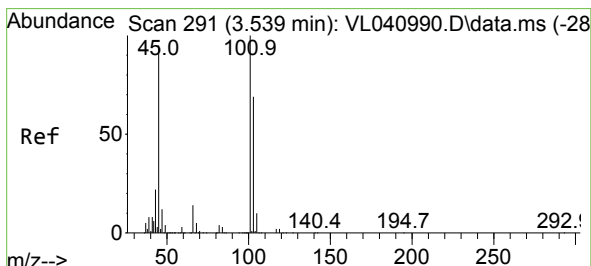
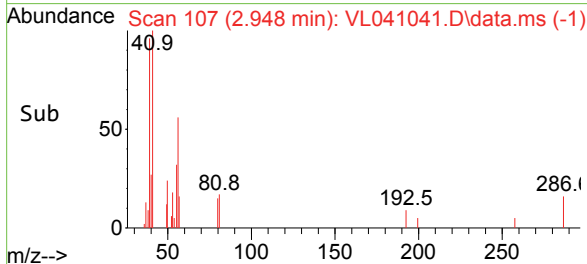
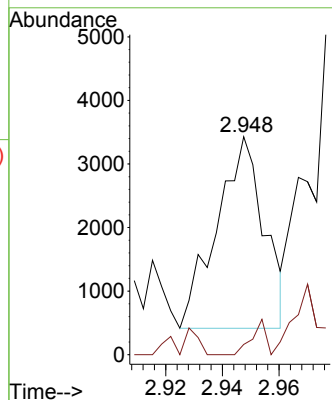
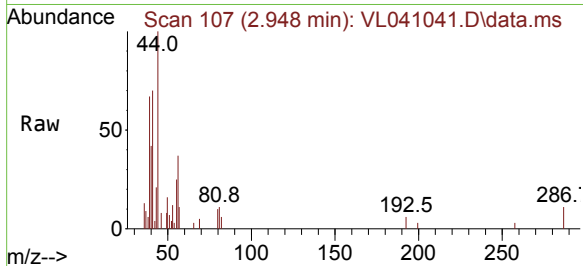




#16
1,3-Butadiene
Concen: 0.056 ppbv
RT: 2.948 min Scan# 108
Delta R.T. -0.010 min
Lab File: VL041041.D
Acq: 7 Feb 2024 15:21

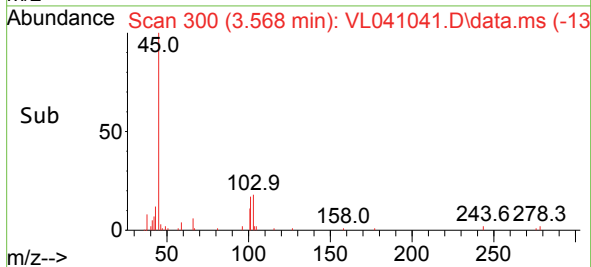
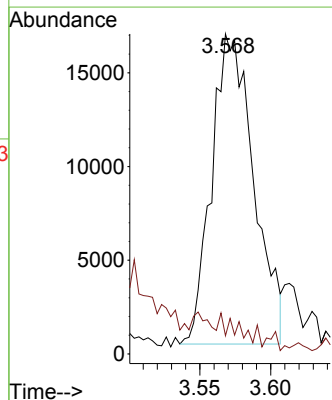
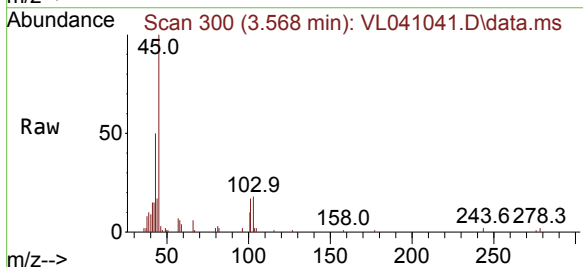
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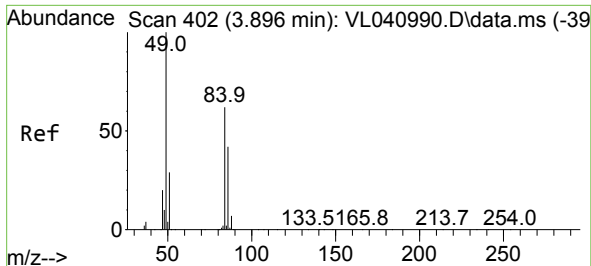
Tgt Ion: 39 Resp: 3490
Ion Ratio Lower Upper
39 100
54 0.0 62.7 94.1#



#19
Isopropyl Alcohol
Concen: 0.454 ppbv
RT: 3.568 min Scan# 300
Delta R.T. 0.019 min
Lab File: VL041041.D
Acq: 7 Feb 2024 15:21

Tgt Ion: 45 Resp: 34191
Ion Ratio Lower Upper
45 100
58 362.0 2.2 3.4#



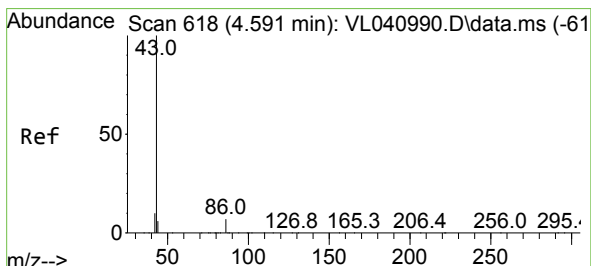
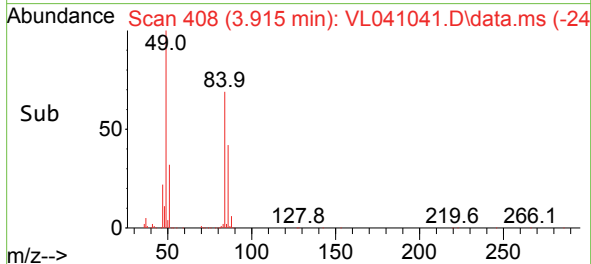
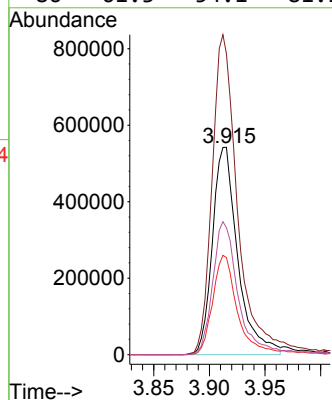
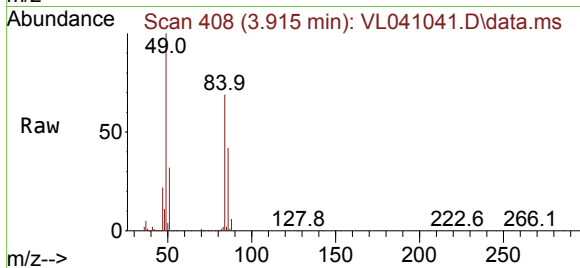


#20
Methylene Chloride
Concen: 17.162 ppbv
RT: 3.915 min Scan# 408
Delta R.T. 0.010 min
Lab File: VL041041.D
Acq: 7 Feb 2024 15:21

Instrument :
MSVOA_L
ClientSampleId :
OA-1DUP

Tgt Ion: 84 Resp: 859863

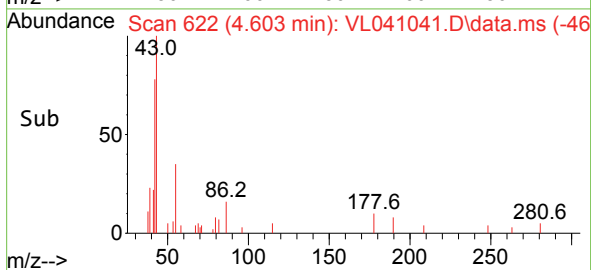
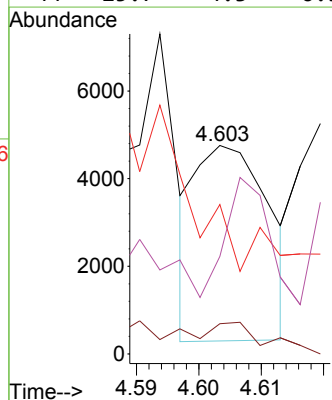
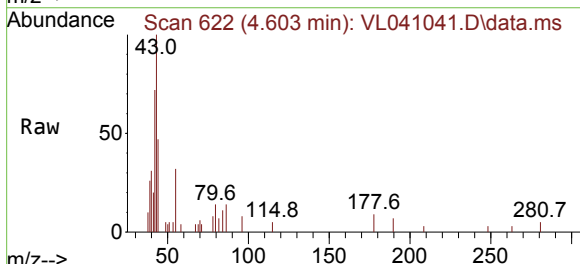
Ion	Ratio	Lower	Upper
84	100		
49	145.1	128.1	192.1
51	46.9	36.5	54.7
86	61.3	54.1	81.1

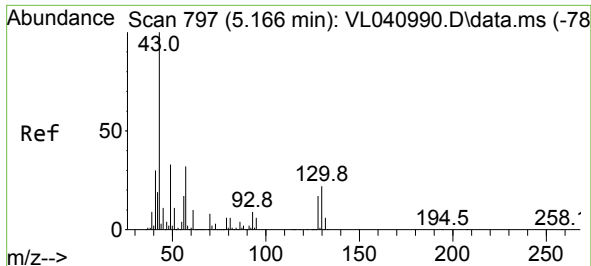


#23
Vinyl Acetate
Concen: 0.027 ppbv
RT: 4.603 min Scan# 622
Delta R.T. 0.003 min
Lab File: VL041041.D
Acq: 7 Feb 2024 15:21

Tgt Ion: 43 Resp: 3637

Ion	Ratio	Lower	Upper
43	100		
86	17.5	5.4	8.0#
42	63.3	8.6	13.0#
44	25.7	4.3	6.5#

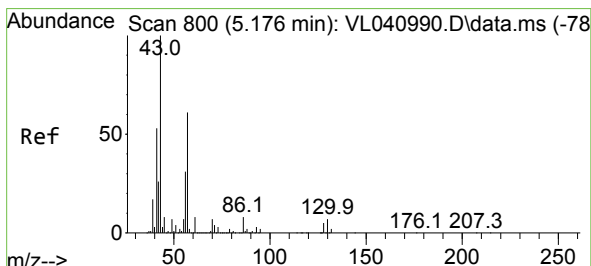
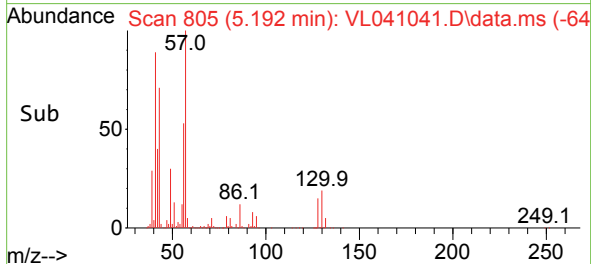
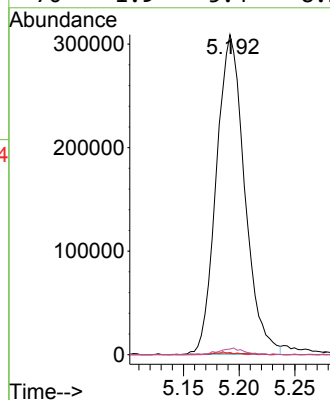
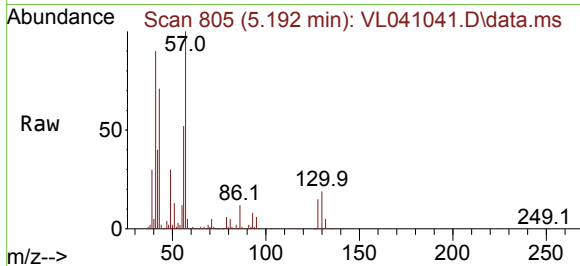




#25
Ethyl Acetate
Concen: 2.312 ppbv
RT: 5.192 min Scan# 805
Delta R.T. 0.013 min
Lab File: VL041041.D
Acq: 7 Feb 2024 15:21

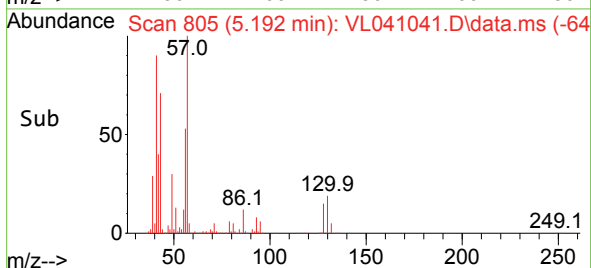
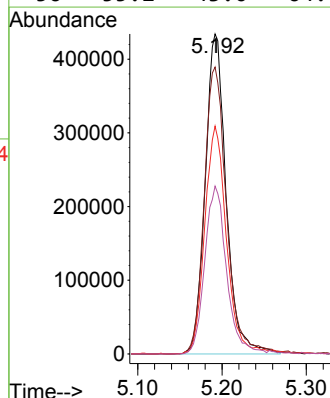
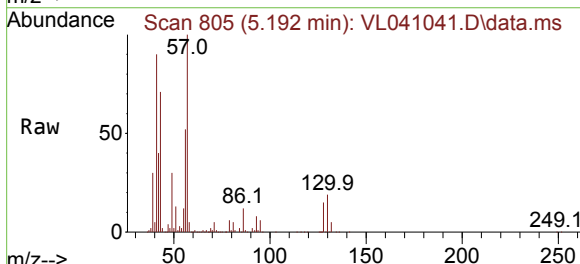
Instrument :
MSVOA_L
ClientSampleId :
OA-1DUP

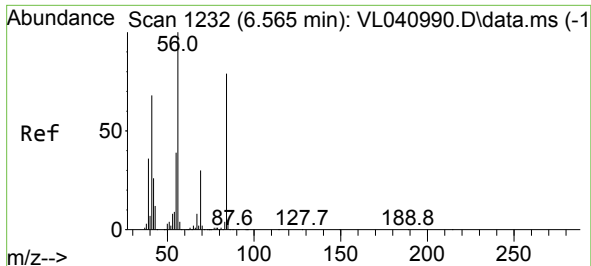
Tgt Ion: 43 Resp: 545835
Ion Ratio Lower Upper
43 100
45 0.8 8.2 12.4#
61 0.6 7.9 11.9#
70 1.9 5.4 8.2#



#26
Hexane
Concen: 7.486 ppbv
RT: 5.192 min Scan# 805
Delta R.T. 0.007 min
Lab File: VL041041.D
Acq: 7 Feb 2024 15:21

Tgt Ion: 57 Resp: 753386
Ion Ratio Lower Upper
57 100
41 96.0 74.4 111.6
43 74.8 190.6 285.8#
56 55.2 43.0 64.4

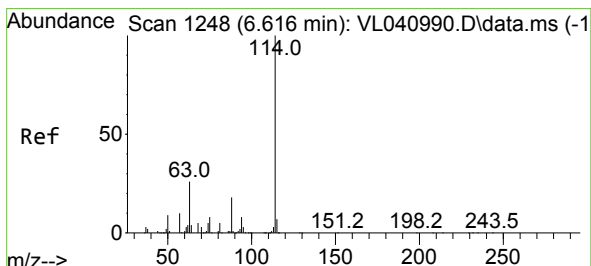
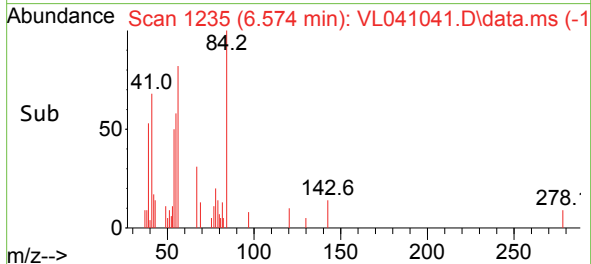
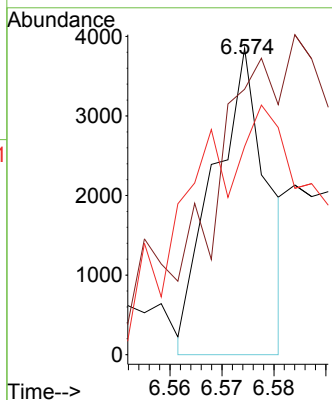
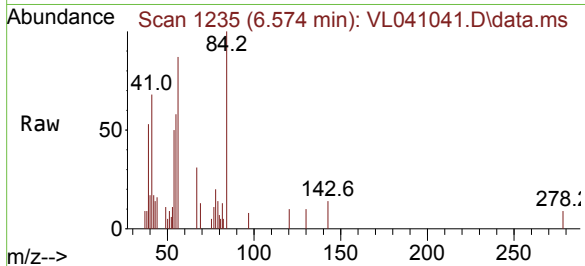




#30
Cyclohexane
Concen: 0.033 ppbv
RT: 6.574 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL041041.D
Acq: 7 Feb 2024 15:21

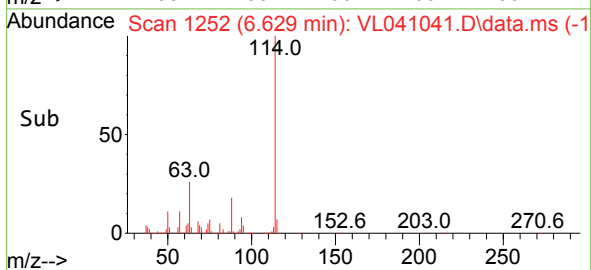
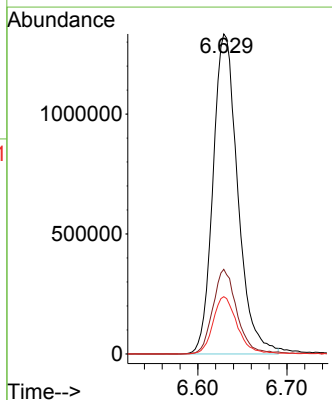
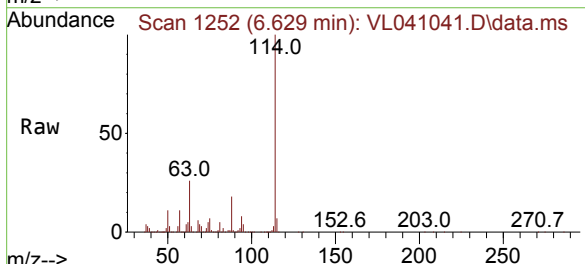
Instrument :
MSVOA_L
ClientSampleId :
OA-1DUP

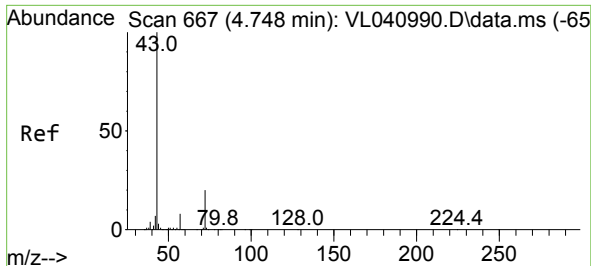
Tgt Ion: 84 Resp: 2749
Ion Ratio Lower Upper
84 100
56 0.0 111.7 167.5#
41 262.4 71.0 106.6#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.629 min Scan# 1252
Delta R.T. 0.003 min
Lab File: VL041041.D
Acq: 7 Feb 2024 15:21

Tgt Ion: 114 Resp: 2574254
Ion Ratio Lower Upper
114 100
63 26.2 20.8 31.2
88 17.7 14.3 21.5

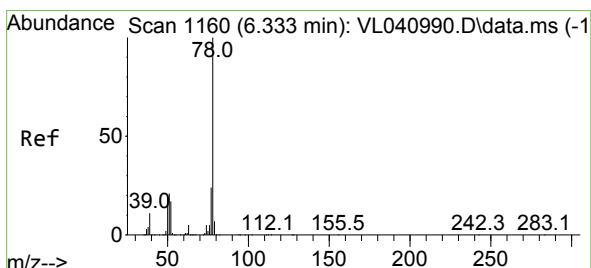
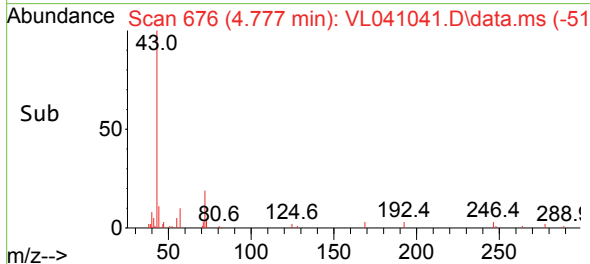
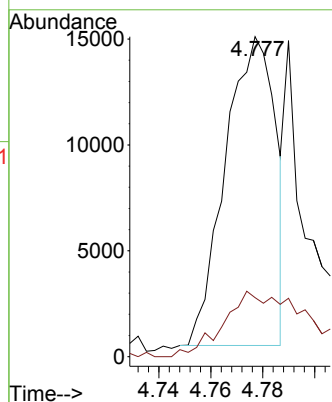
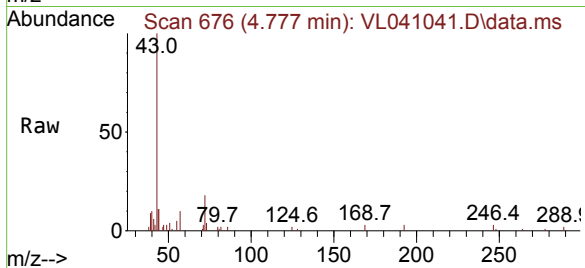




#34
2-Butanone
Concen: 0.159 ppbv
RT: 4.777 min Scan# 61
Delta R.T. 0.019 min
Lab File: VL041041.D
Acq: 7 Feb 2024 15:21

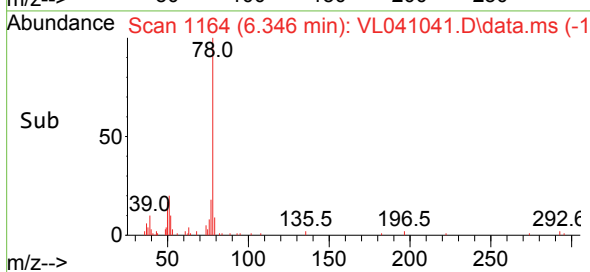
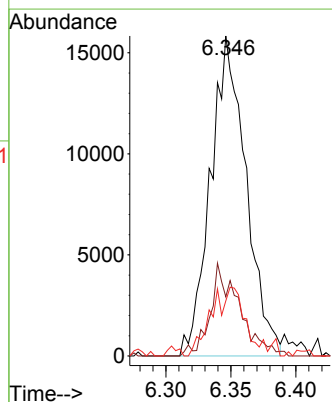
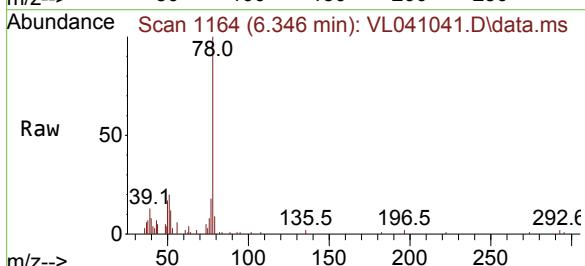
Instrument :
MSVOA_L
ClientSampleId :
OA-1DUP

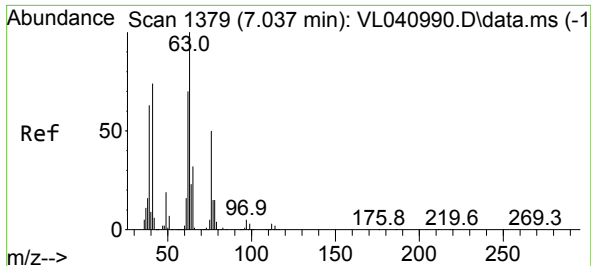
Tgt Ion: 43 Resp: 19533
Ion Ratio Lower Upper
43 100
72 38.2 17.5 26.3#



#36
Benzene
Concen: 0.142 ppbv
RT: 6.346 min Scan# 1164
Delta R.T. 0.003 min
Lab File: VL041041.D
Acq: 7 Feb 2024 15:21

Tgt Ion: 78 Resp: 30109
Ion Ratio Lower Upper
78 100
77 18.5 19.0 28.4#
50 17.2 15.8 23.6





#39

1,2-Dichloropropane

Concen: 7.849 ppbv

RT: 6.629 min Scan# 11

Delta R.T. -0.418 min

Lab File: VL041041.D

Acq: 7 Feb 2024 15:21

Instrument :

MSVOA_L

ClientSampleId :

OA-1DUP

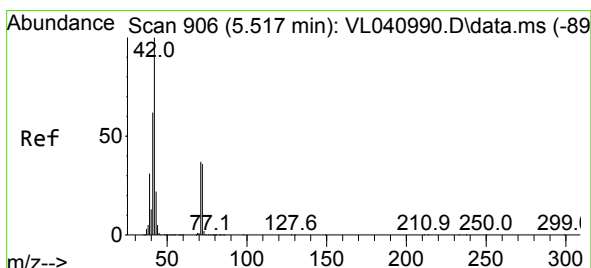
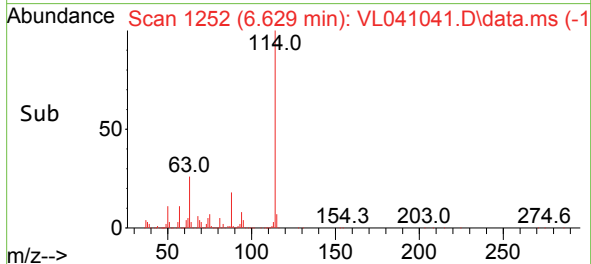
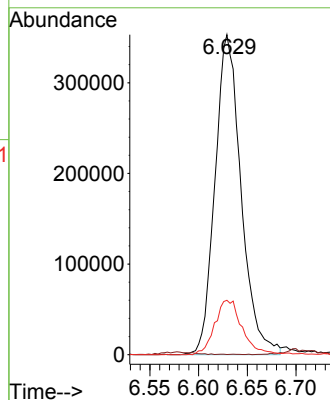
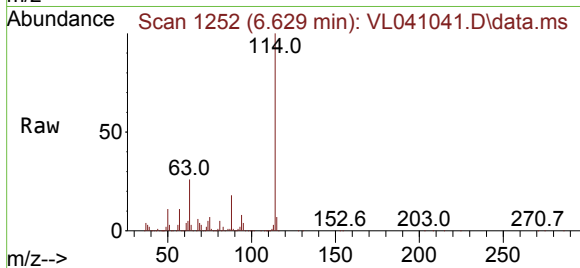
Tgt Ion: 63 Resp: 657348

Ion Ratio Lower Upper

63 100

41 0.0 59.6 89.4#

62 17.0 55.6 83.4#



#41

Tetrahydrofuran

Concen: 0.049 ppbv

RT: 5.234 min Scan# 818

Delta R.T. -0.296 min

Lab File: VL041041.D

Acq: 7 Feb 2024 15:21

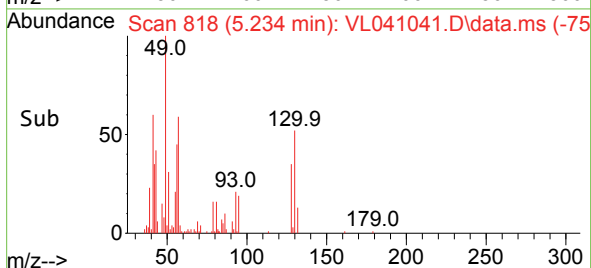
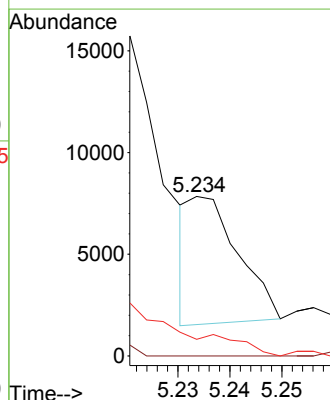
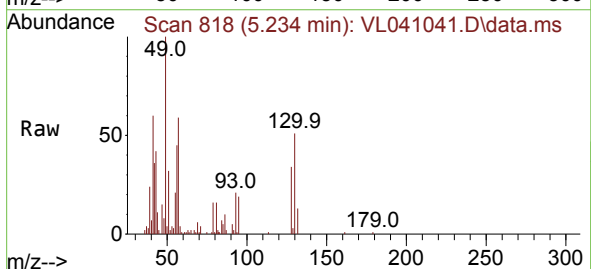
Tgt Ion: 42 Resp: 4051

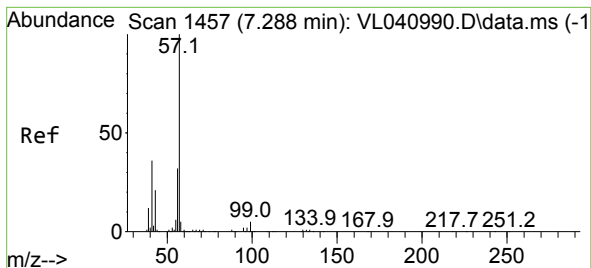
Ion Ratio Lower Upper

42 100

72 0.0 30.0 45.0#

71 0.0 29.5 44.3#





#44

2,2,4-Trimethylpentane

Concen: 0.066 ppbv

RT: 7.307 min Scan# 1457

Delta R.T. 0.010 min

Lab File: VL041041.D

Acq: 7 Feb 2024 15:21

Instrument :

MSVOA_L

ClientSampleId :

OA-1DUP

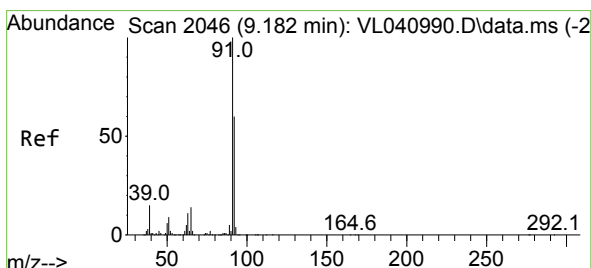
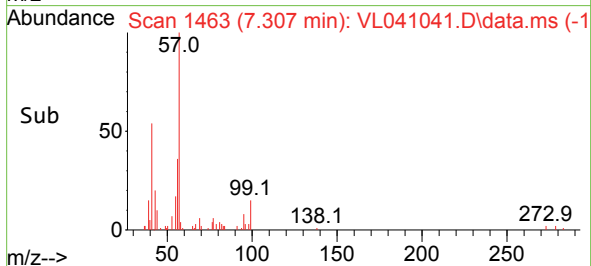
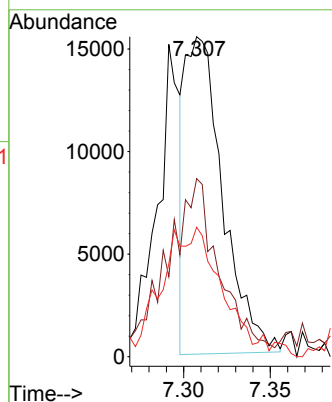
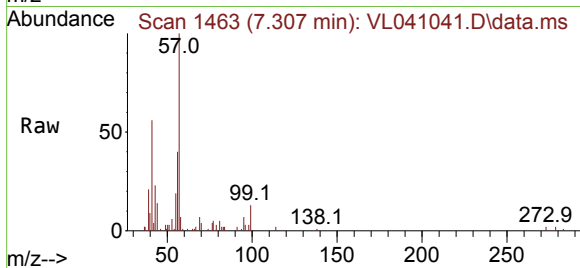
Tgt Ion: 57 Resp: 23432

Ion Ratio Lower Upper

57 100

41 80.5 28.6 43.0#

56 71.9 25.2 37.8#



#53

Toluene

Concen: 0.366 ppbv

RT: 9.198 min Scan# 2051

Delta R.T. 0.003 min

Lab File: VL041041.D

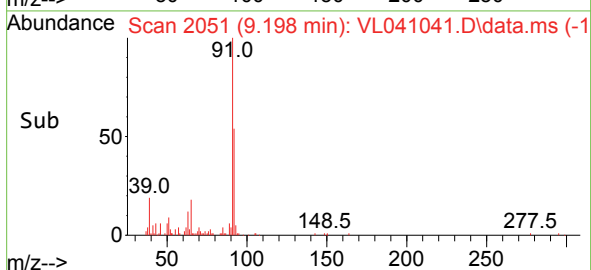
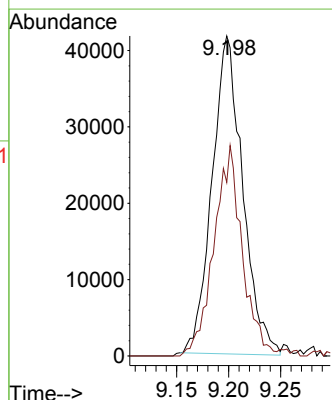
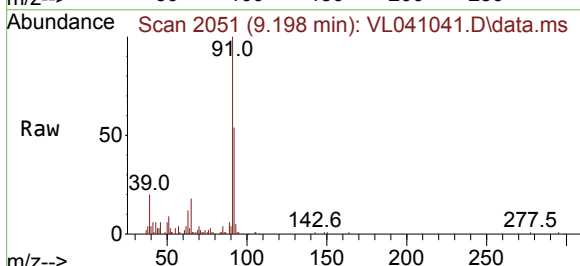
Acq: 7 Feb 2024 15:21

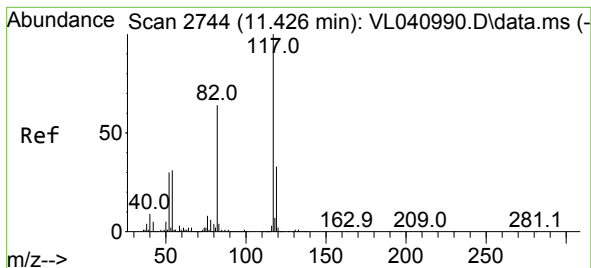
Tgt Ion: 91 Resp: 85180

Ion Ratio Lower Upper

91 100

92 62.0 48.6 72.8

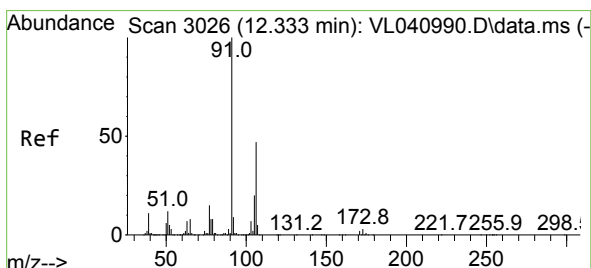
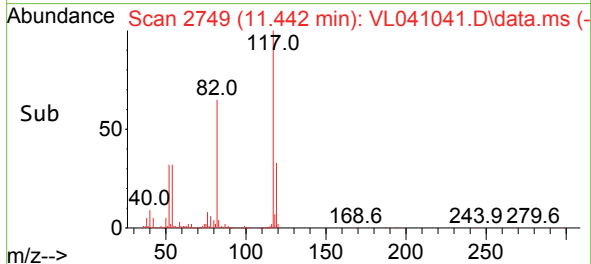
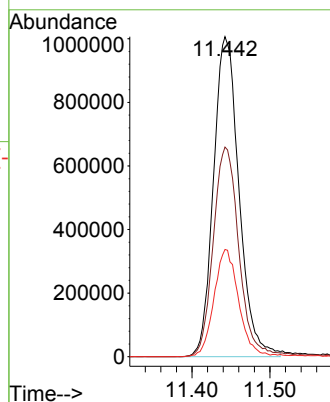
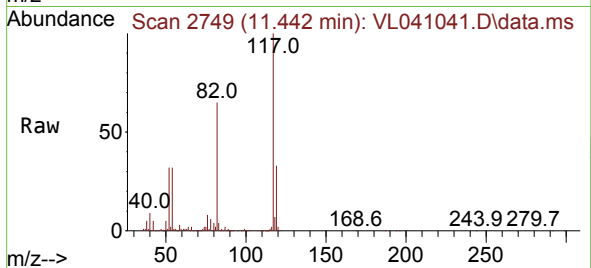




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.442 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL041041.D
Acq: 7 Feb 2024 15:21

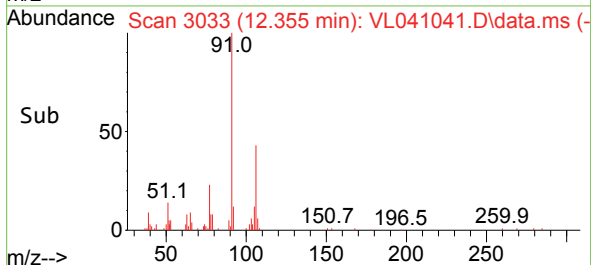
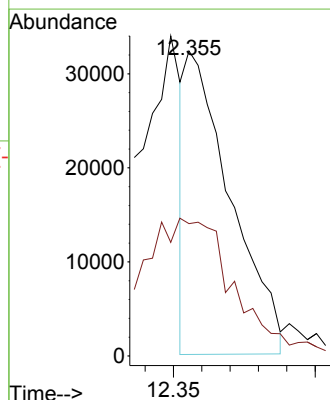
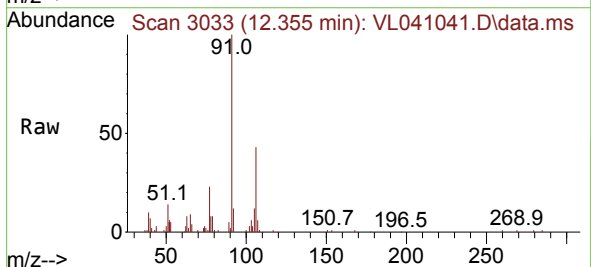
Instrument :
MSVOA_L
ClientSampleId :
OA-1DUP

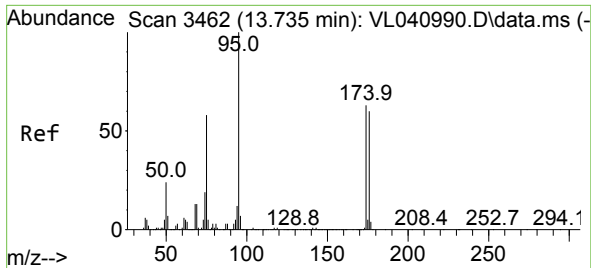
Tgt Ion:117 Resp: 2290942
Ion Ratio Lower Upper
117 100
82 67.1 51.7 77.5
119 33.1 23.8 35.6



#59
m/p-Xylene
Concen: 0.133 ppbv
RT: 12.355 min Scan# 3033
Delta R.T. 0.007 min
Lab File: VL041041.D
Acq: 7 Feb 2024 15:21

Tgt Ion: 91 Resp: 35652
Ion Ratio Lower Upper
91 100
106 114.3 34.9 52.3#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.162 ppbv
 RT: 13.751 min Scan# 3467
 Delta R.T. 0.003 min
 Lab File: VL041041.D
 Acq: 7 Feb 2024 15:21

Instrument :
 MSVOA_L
 ClientSampleId :
 OA-1DUP

Tgt Ion: 95 Resp: 1758480
 Ion Ratio Lower Upper
 95 100
 174 62.9 49.1 73.7
 175 4.5 3.7 5.5

