

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020924\
 Data File : VL041055.D
 Acq On : 9 Feb 2024 13:06
 Operator : SY/MD
 Sample : P1420-05DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS3DL

Quant Time: Feb 12 00:45:52 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 : Mon Feb 12 00:40:04 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.189	49	1237002	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	6.648	114	3531740	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.459	117	3253484	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.770	95	2515379	10.236	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.400%

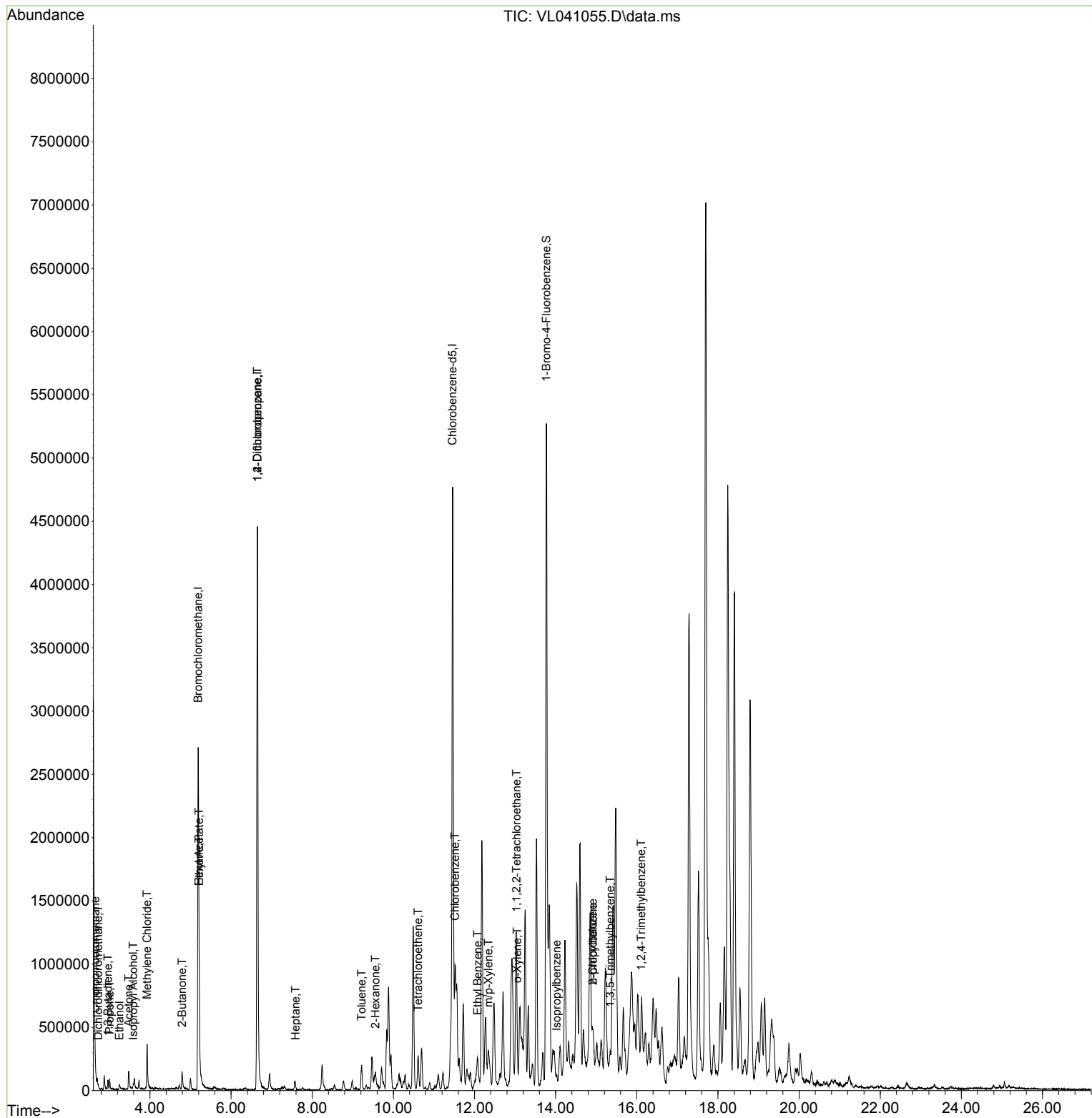
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.726	85	11212	0.041	ppbv	94
3) Chlorodifluoromethane	2.655	51	9009	0.043	ppbv #	76
9) Propene	3.009	41	18429	0.270	ppbv	88
10) Heptane	7.587	43	7110	0.042	ppbv #	28
13) Ethanol	3.250	45	28316	1.741	ppbv	83
15) Acetone	3.475	43	151856	0.960	ppbv #	86
16) 1,3-Butadiene	2.967	39	17122	0.226	ppbv #	19
19) Isopropyl Alcohol	3.591	45	30618	0.334	ppbv #	83
20) Methylene Chloride	3.931	84	113887	1.871	ppbv	98
25) Ethyl Acetate	5.211	43	183694	0.640	ppbv #	77
26) Hexane	5.211	57	264857	2.166	ppbv #	39
34) 2-Butanone	4.793	43	161080	0.957	ppbv	97
39) 1,2-Dichloropropane	6.648	63	837124	7.285	ppbv #	24
51) 2-Hexanone	9.558	43	129667	0.607	ppbv #	96
52) Tetrachloroethene	10.613	164	40036	0.413	ppbv	88
53) Toluene	9.217	91	156153	0.489	ppbv	99
57) Chlorobenzene	11.520	112	5315	0.020	ppbv #	57
58) Ethyl Benzene	12.079	91	37702	0.086	ppbv	93
59) m/p-Xylene	12.343	91	219833	0.577	ppbv	91
60) o-Xylene	13.053	91	80641	0.221	ppbv	88
62) Isopropylbenzene	14.021	105	18026	0.033	ppbv #	49
63) 1,1,2,2-Tetrachloroethane	13.037	83	7723	0.027	ppbv #	24
64) n-propylbenzene	14.915	120	3586	0.026	ppbv #	1
71) 2-Chlorotoluene	14.918	91	22671	0.054	ppbv	82
73) 1,3,5-Trimethylbenzene	15.346	105	27720	0.077	ppbv	92
74) 1,2,4-Trimethylbenzene	16.105	105	11216	0.027	ppbv #	40

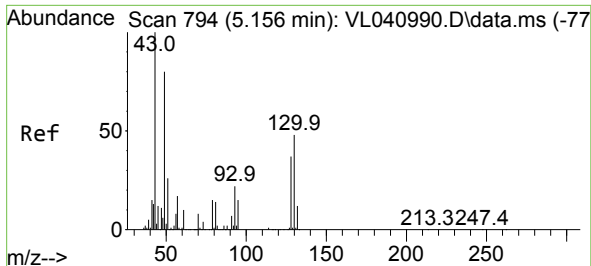
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
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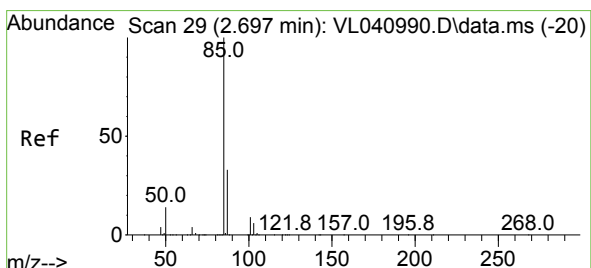
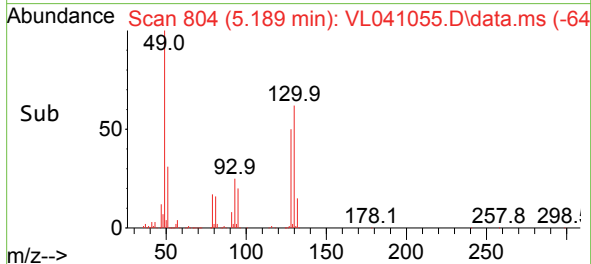
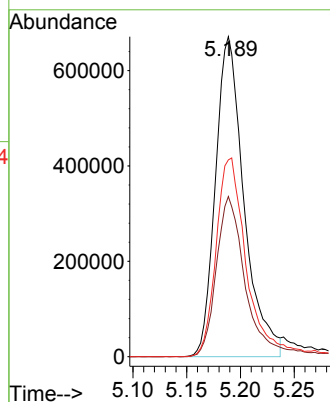
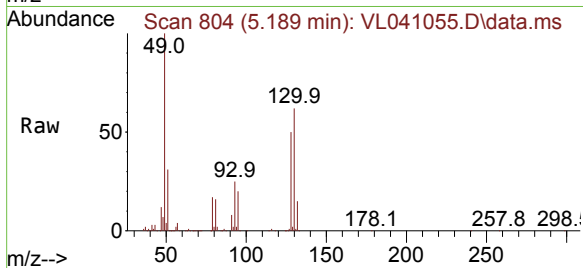




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.189 min Scan# 80
 Delta R.T. 0.013 min
 Lab File: VL041055.D
 Acq: 9 Feb 2024 13:06

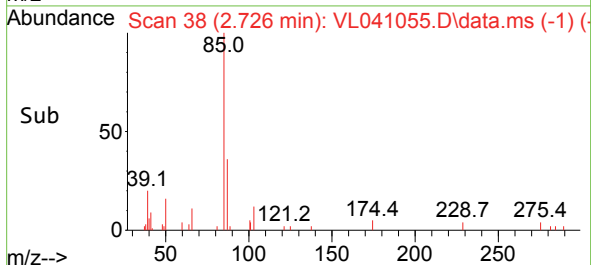
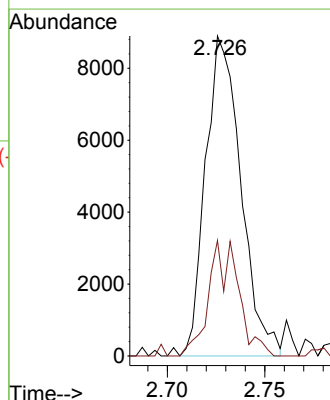
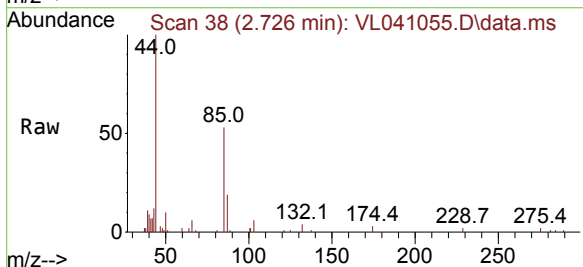
Instrument :
 MSVOA_L
 ClientSampleId :
 SS3DL

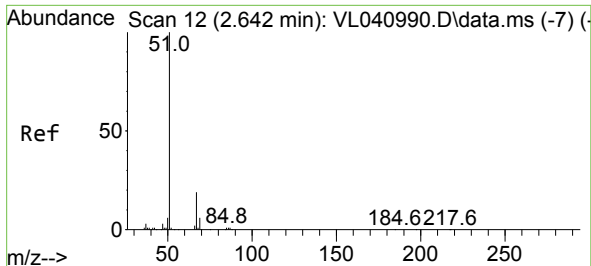
Tgt Ion: 49 Resp: 1237002
 Ion Ratio Lower Upper
 49 100
 128 54.2 23.9 71.7
 130 69.0 31.1 93.5



#2
 Dichlorodifluoromethane
 Concen: 0.041 ppbv
 RT: 2.726 min Scan# 38
 Delta R.T. 0.010 min
 Lab File: VL041055.D
 Acq: 9 Feb 2024 13:06

Tgt Ion: 85 Resp: 11212
 Ion Ratio Lower Upper
 85 100
 87 36.1 26.3 39.5

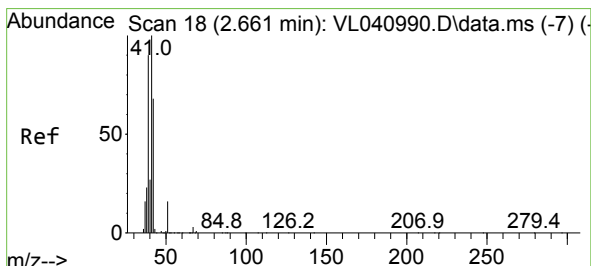
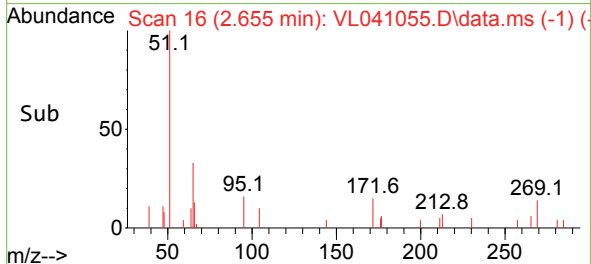
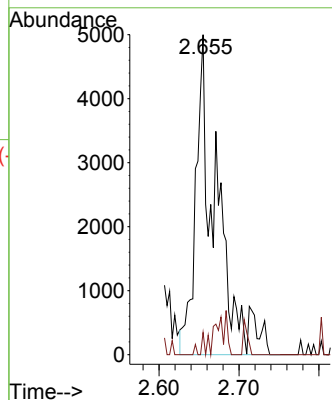
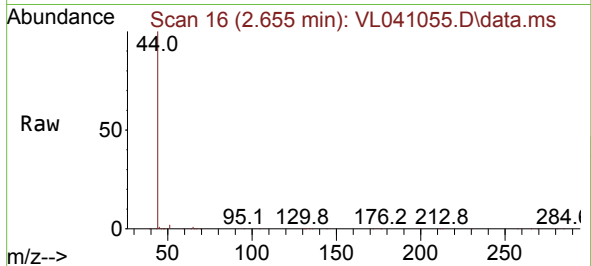




#3
Chlorodifluoromethane
Concen: 0.043 ppbv
RT: 2.655 min Scan# 11
Delta R.T. -0.006 min
Lab File: VL041055.D
Acq: 9 Feb 2024 13:06

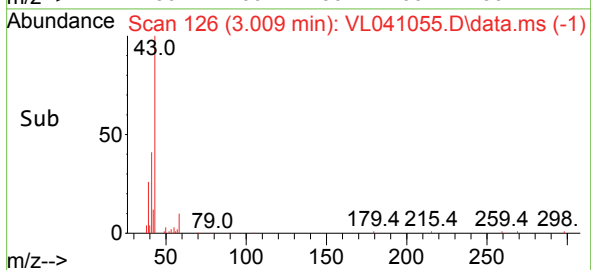
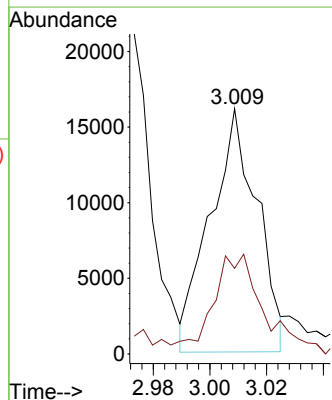
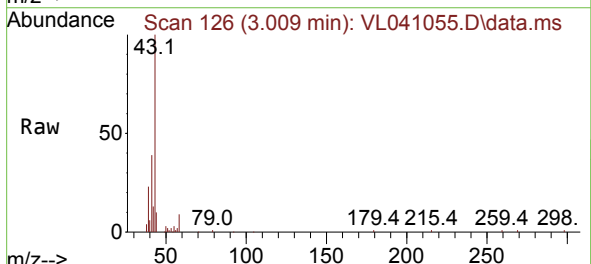
Instrument :
MSVOA_L
ClientSampleId :
SS3DL

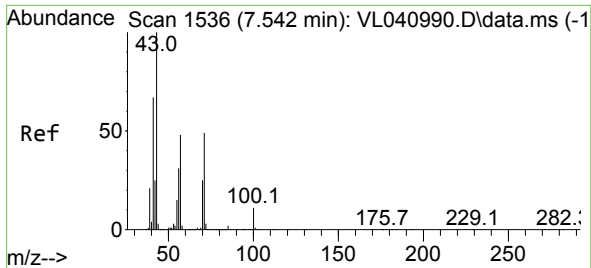
Tgt Ion: 51 Resp: 9009
Ion Ratio Lower Upper
51 100
67 8.0 14.8 22.2#



#9
Propene
Concen: 0.270 ppbv
RT: 3.009 min Scan# 126
Delta R.T. 0.331 min
Lab File: VL041055.D
Acq: 9 Feb 2024 13:06

Tgt Ion: 41 Resp: 18429
Ion Ratio Lower Upper
41 100
42 63.4 59.0 88.4

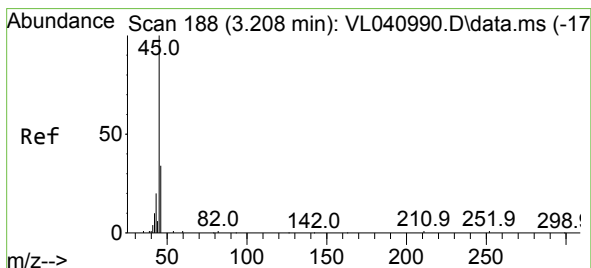
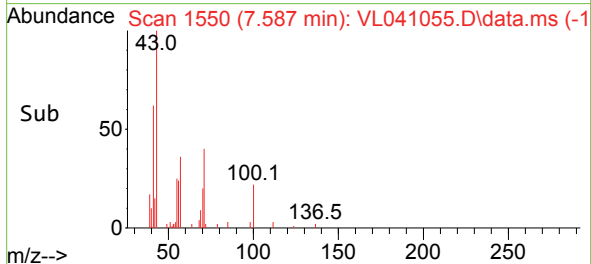
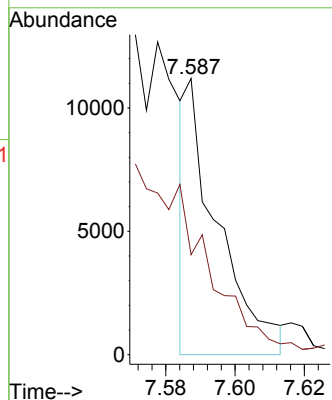
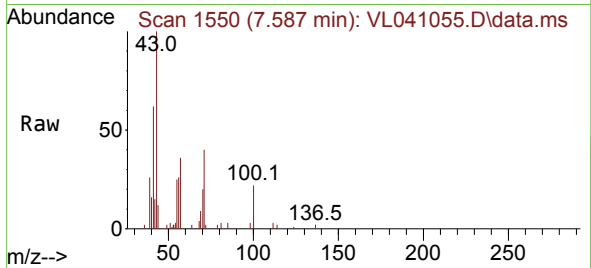




#10
 Heptane
 Concen: 0.042 ppbv
 RT: 7.587 min Scan# 11
 Delta R.T. 0.019 min
 Lab File: VL041055.D
 Acq: 9 Feb 2024 13:06

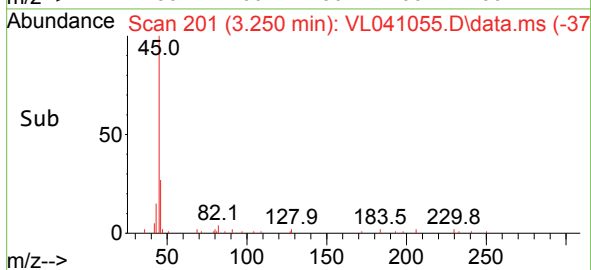
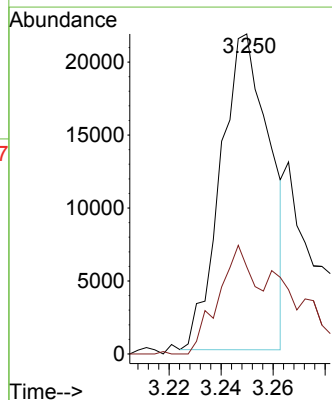
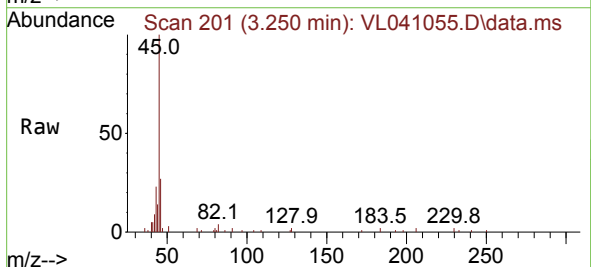
Instrument :
 MSVOA_L
 ClientSampleId :
 SS3DL

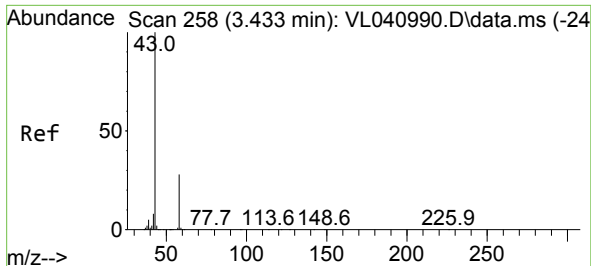
Tgt Ion: 43 Resp: 7110
 Ion Ratio Lower Upper
 43 100
 57 0.0 39.4 59.2#



#13
 Ethanol
 Concen: 1.741 ppbv
 RT: 3.250 min Scan# 201
 Delta R.T. 0.026 min
 Lab File: VL041055.D
 Acq: 9 Feb 2024 13:06

Tgt Ion: 45 Resp: 28316
 Ion Ratio Lower Upper
 45 100
 46 51.0 16.2 64.8





#15

Acetone

Concen: 0.960 ppbv

RT: 3.475 min Scan# 21

Delta R.T. 0.023 min

Lab File: VL041055.D

Acq: 9 Feb 2024 13:06

Instrument :

MSVOA_L

ClientSampleId :

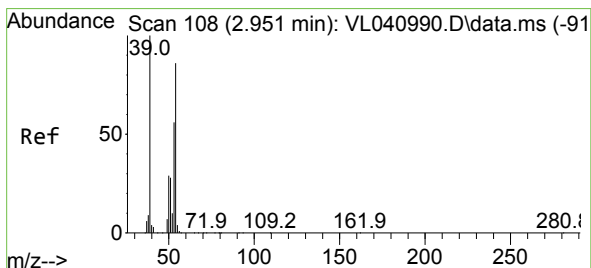
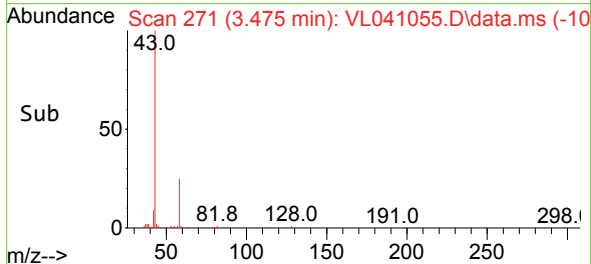
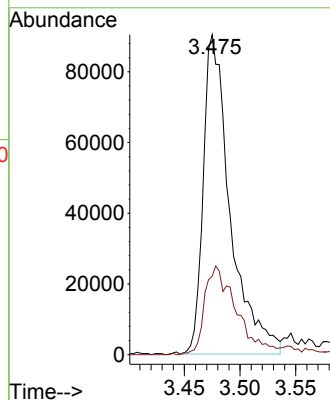
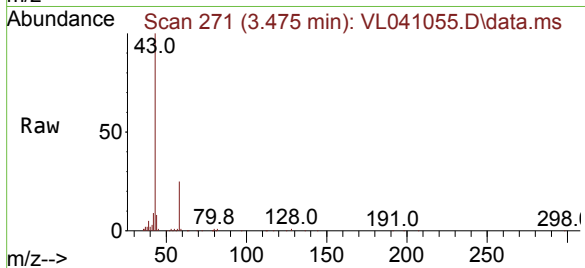
SS3DL

Tgt Ion: 43 Resp: 151856

Ion Ratio Lower Upper

43 100

58 35.3 22.2 33.2#



#16

1,3-Butadiene

Concen: 0.226 ppbv

RT: 2.967 min Scan# 113

Delta R.T. -0.003 min

Lab File: VL041055.D

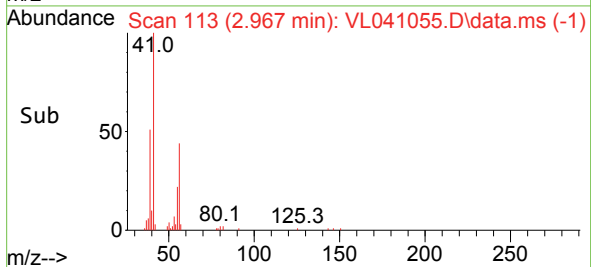
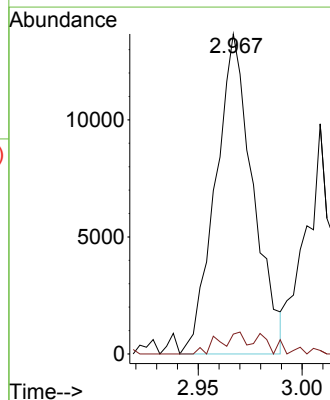
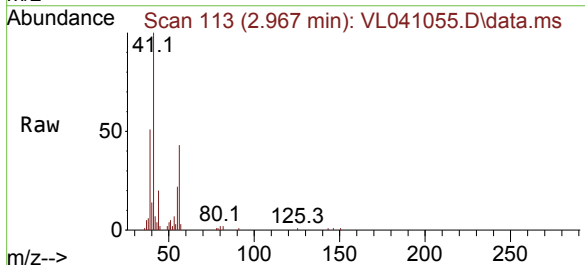
Acq: 9 Feb 2024 13:06

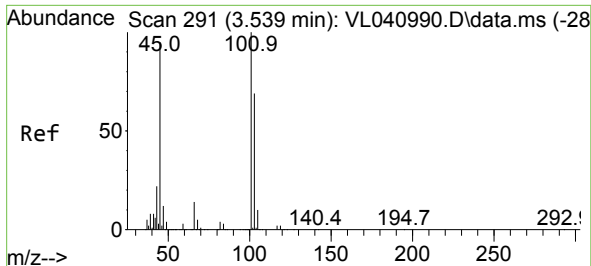
Tgt Ion: 39 Resp: 17122

Ion Ratio Lower Upper

39 100

54 7.9 62.7 94.1#





#19

Isopropyl Alcohol

Concen: 0.334 ppbv

RT: 3.591 min Scan# 307

Delta R.T. 0.029 min

Lab File: VL041055.D

Acq: 9 Feb 2024 13:06

Instrument :

MSVOA_L

ClientSampleId :

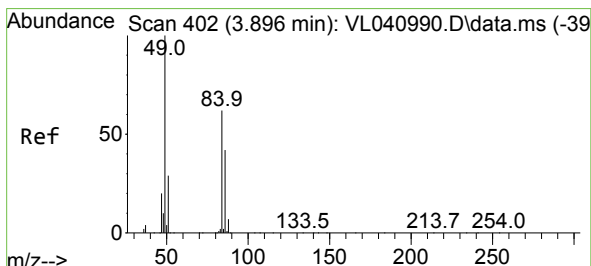
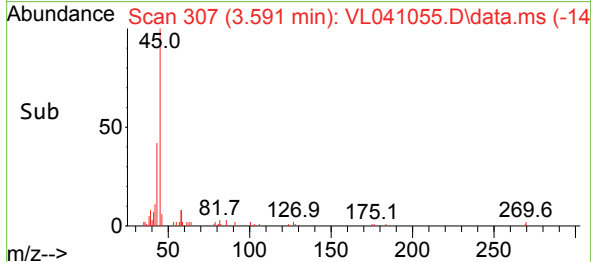
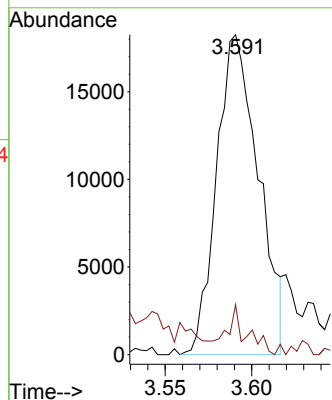
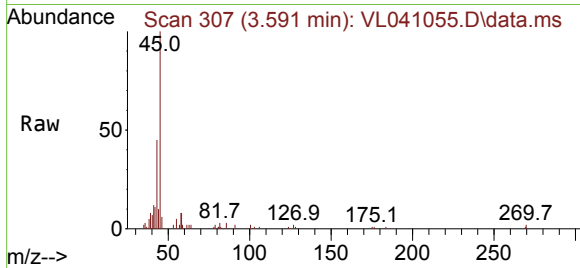
SS3DL

Tgt Ion: 45 Resp: 30618

Ion Ratio Lower Upper

45 100

58 8.5 2.2 3.4#



#20

Methylene Chloride

Concen: 1.871 ppbv

RT: 3.931 min Scan# 413

Delta R.T. 0.013 min

Lab File: VL041055.D

Acq: 9 Feb 2024 13:06

Tgt Ion: 84 Resp: 113887

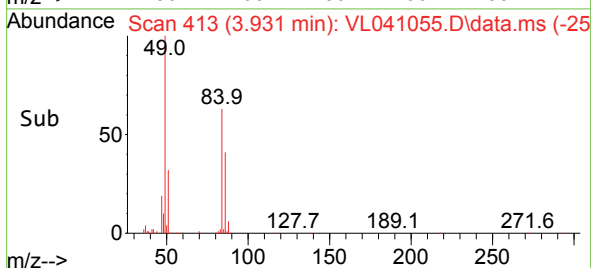
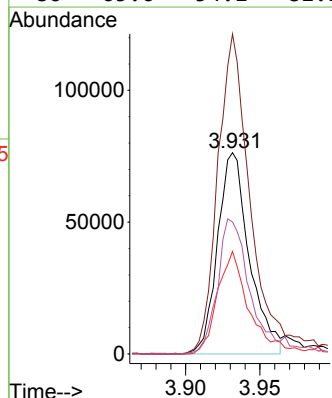
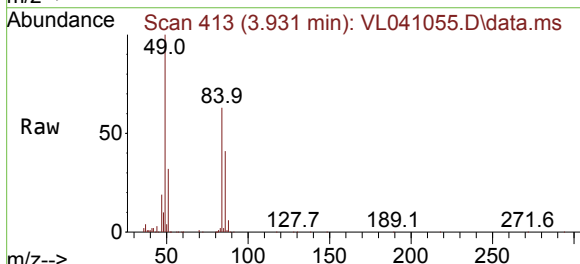
Ion Ratio Lower Upper

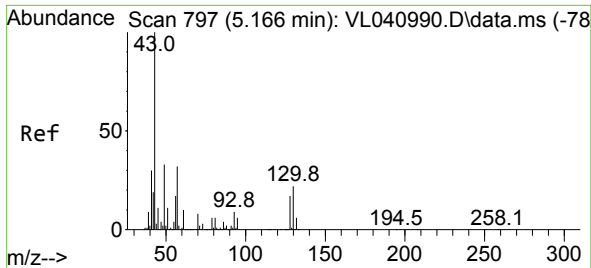
84 100

49 159.0 128.1 192.1

51 51.0 36.5 54.7

86 65.6 54.1 81.1

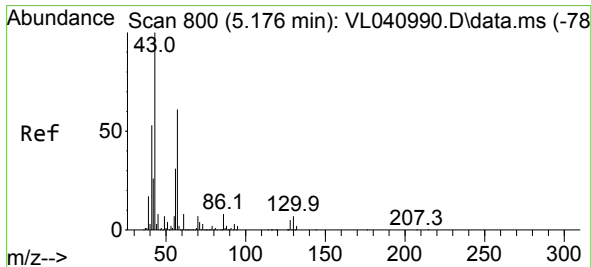
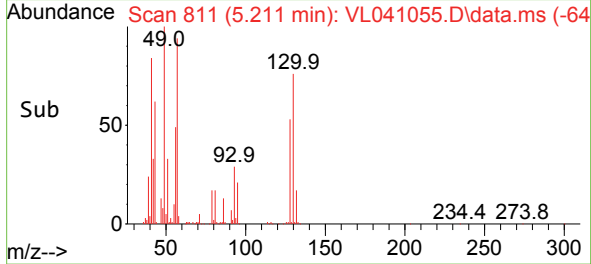
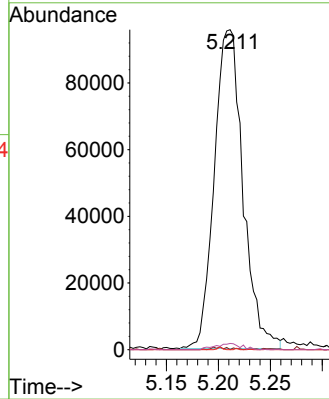
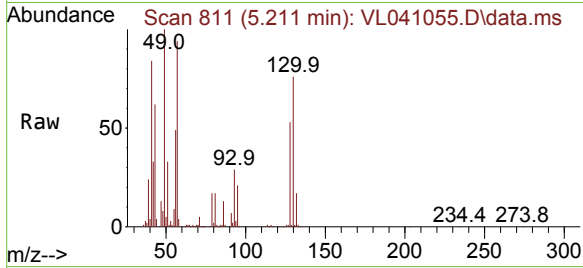




#25
Ethyl Acetate
Concen: 0.640 ppbv
RT: 5.211 min Scan# 811
Delta R.T. 0.019 min
Lab File: VL041055.D
Acq: 9 Feb 2024 13:06

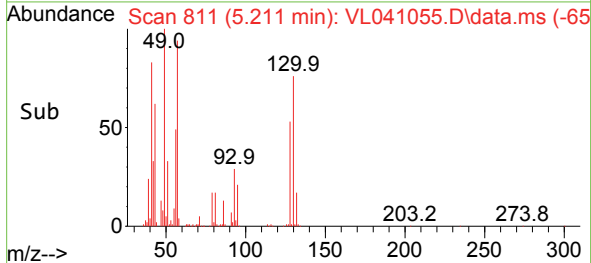
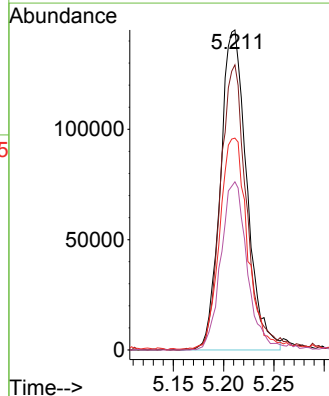
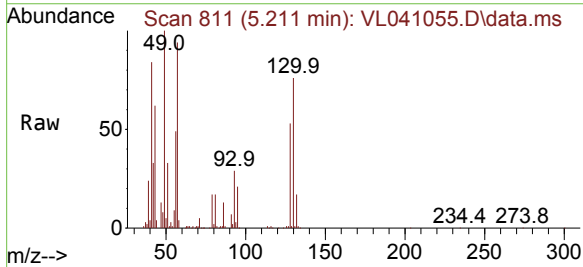
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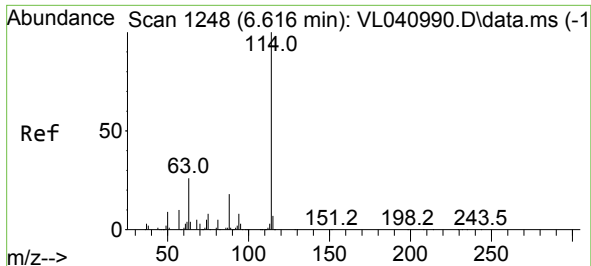
Tgt Ion: 43 Resp: 183694
Ion Ratio Lower Upper
43 100
45 0.5 8.2 12.4#
61 0.2 7.9 11.9#
70 1.8 5.4 8.2#



#26
Hexane
Concen: 2.166 ppbv
RT: 5.211 min Scan# 811
Delta R.T. 0.013 min
Lab File: VL041055.D
Acq: 9 Feb 2024 13:06

Tgt Ion: 57 Resp: 264857
Ion Ratio Lower Upper
57 100
41 90.7 74.4 111.6
43 72.1 190.6 285.8#
56 53.1 43.0 64.4





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.648 min Scan# 1

Delta R.T. 0.006 min

Lab File: VL041055.D

Acq: 9 Feb 2024 13:06

Instrument :

MSVOA_L

ClientSampleId :

SS3DL

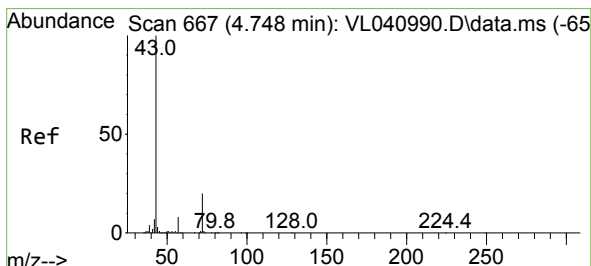
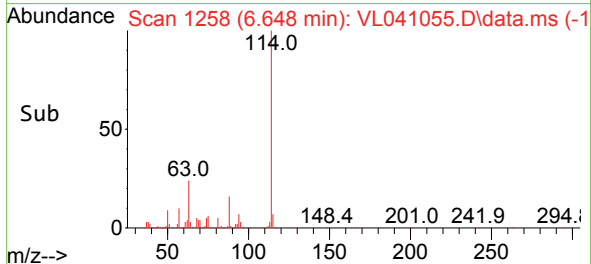
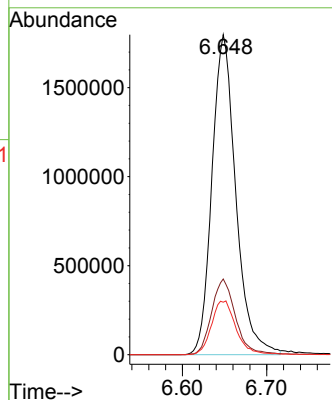
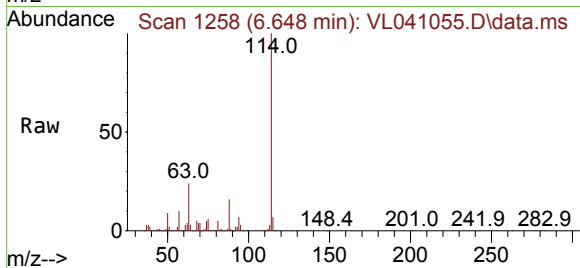
Tgt Ion:114 Resp: 3531740

Ion Ratio Lower Upper

114 100

63 24.0 20.8 31.2

88 17.6 14.3 21.5



#34

2-Butanone

Concen: 0.957 ppbv

RT: 4.793 min Scan# 681

Delta R.T. 0.023 min

Lab File: VL041055.D

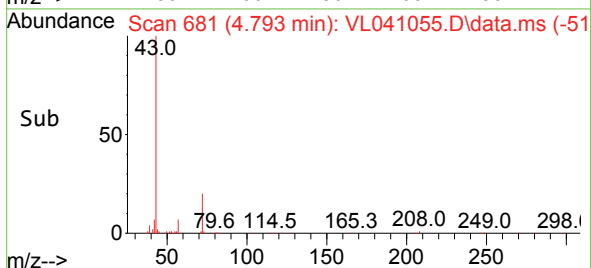
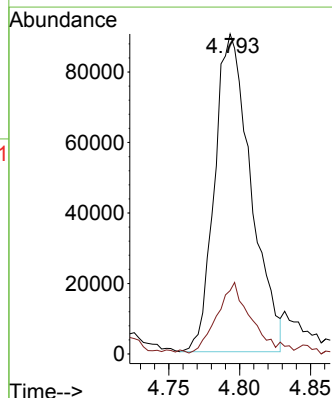
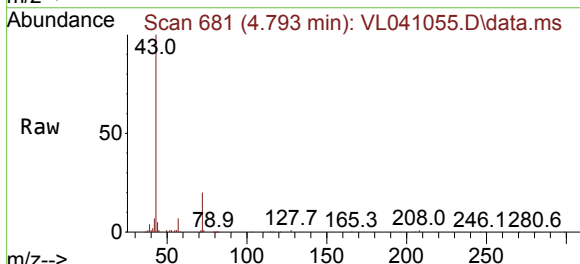
Acq: 9 Feb 2024 13:06

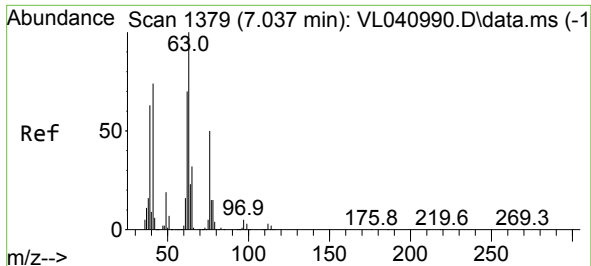
Tgt Ion: 43 Resp: 161080

Ion Ratio Lower Upper

43 100

72 23.6 17.5 26.3





#39

1,2-Dichloropropane

Concen: 7.285 ppbv

RT: 6.648 min Scan# 11

Delta R.T. -0.408 min

Lab File: VL041055.D

Acq: 9 Feb 2024 13:06

Instrument :

MSVOA_L

ClientSampleId :

SS3DL

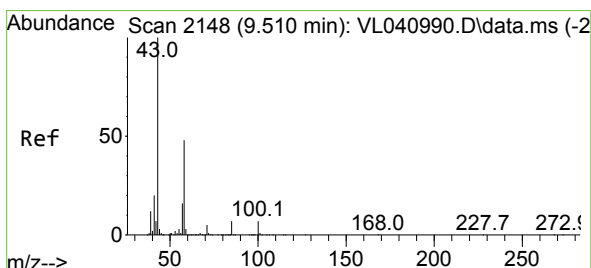
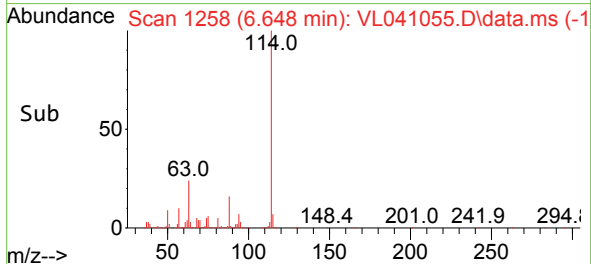
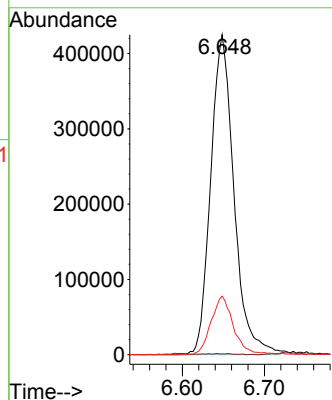
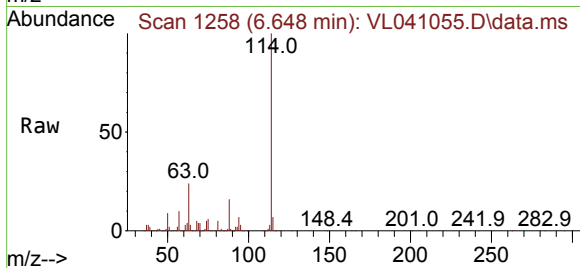
Tgt Ion: 63 Resp: 837124

Ion Ratio Lower Upper

63 100

41 0.0 59.6 89.4#

62 18.3 55.6 83.4#



#51

2-Hexanone

Concen: 0.607 ppbv

RT: 9.558 min Scan# 2163

Delta R.T. 0.023 min

Lab File: VL041055.D

Acq: 9 Feb 2024 13:06

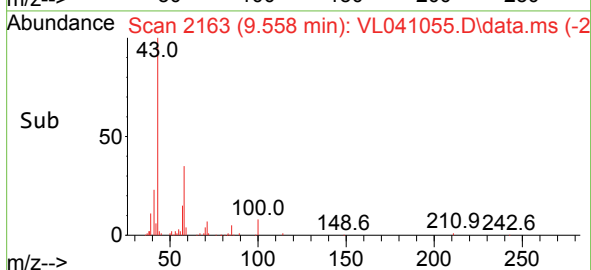
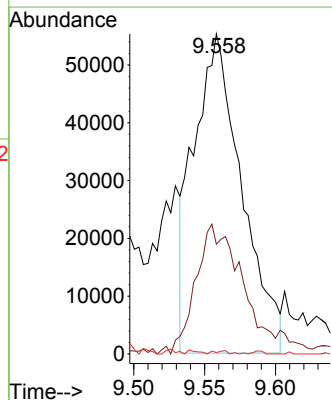
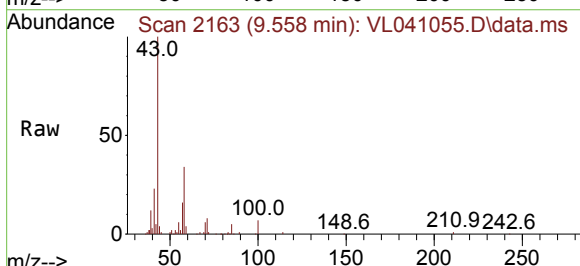
Tgt Ion: 43 Resp: 129667

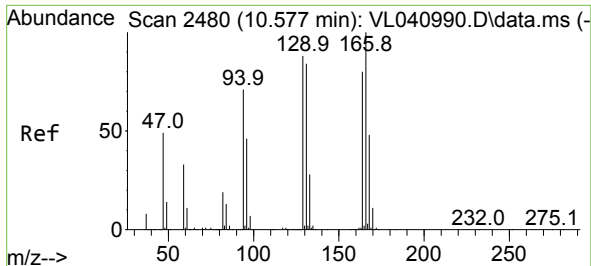
Ion Ratio Lower Upper

43 100

58 43.6 36.8 55.2

98 0.0 0.3 0.5#

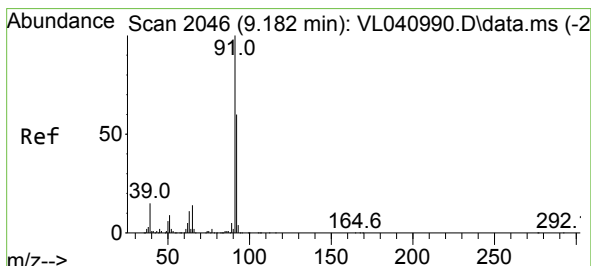
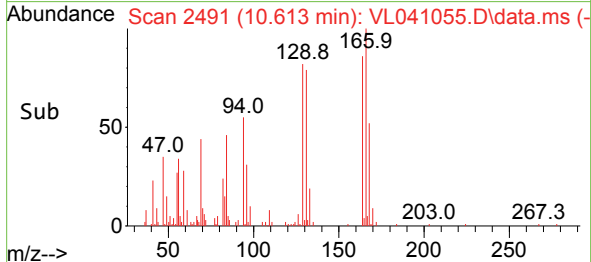
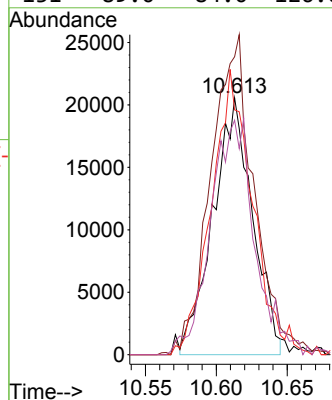
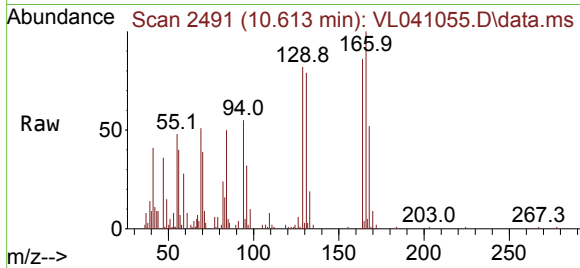




#52
Tetrachloroethene
Concen: 0.413 ppbv
RT: 10.613 min Scan# 2480
Delta R.T. 0.010 min
Lab File: VL041055.D
Acq: 9 Feb 2024 13:06

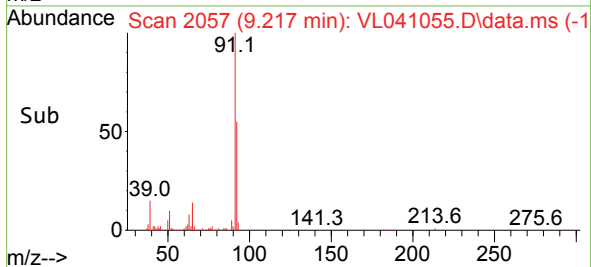
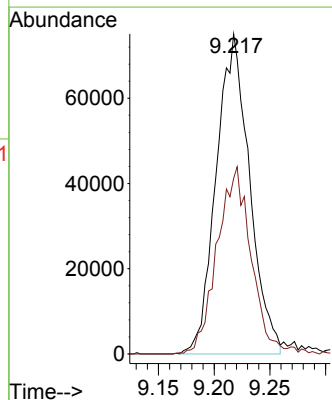
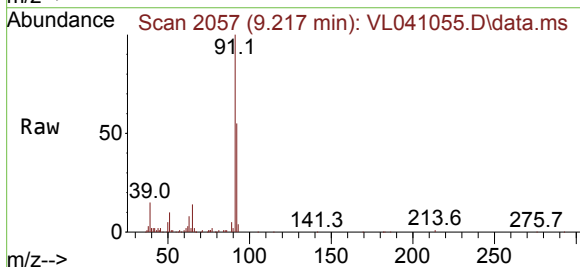
Instrument :
MSVOA_L
ClientSampleId :
SS3DL

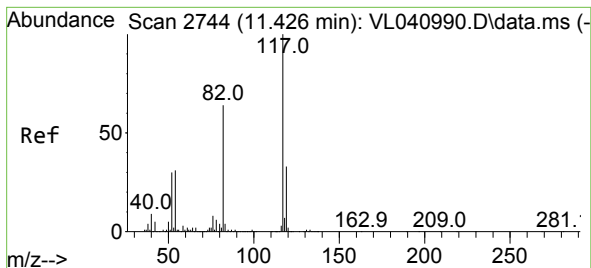
Tgt Ion:164 Resp: 40036
Ion Ratio Lower Upper
164 100
166 116.7 100.2 150.2
129 94.6 87.9 131.9
131 89.0 84.0 126.0



#53
Toluene
Concen: 0.489 ppbv
RT: 9.217 min Scan# 2057
Delta R.T. 0.010 min
Lab File: VL041055.D
Acq: 9 Feb 2024 13:06

Tgt Ion: 91 Resp: 156153
Ion Ratio Lower Upper
91 100
92 59.9 48.6 72.8

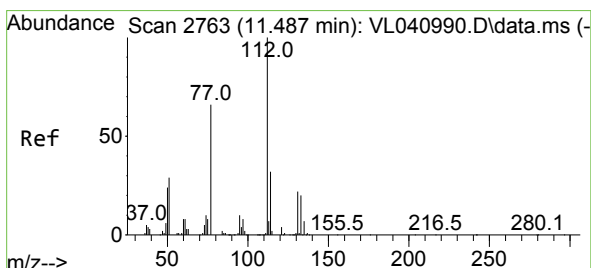
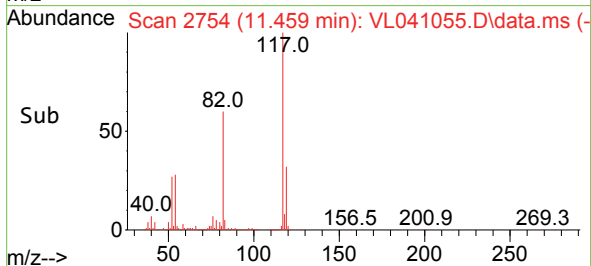
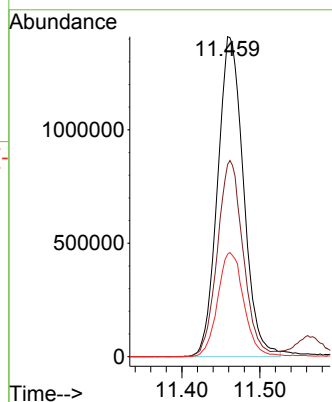
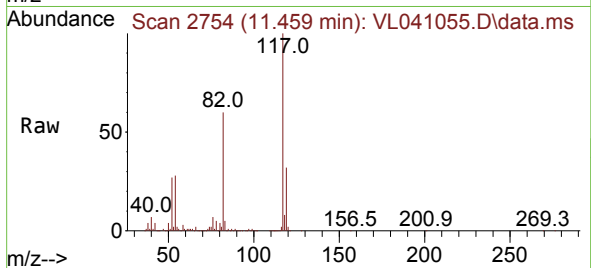




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.459 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL041055.D
Acq: 9 Feb 2024 13:06

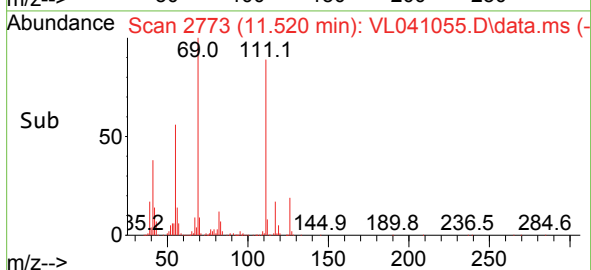
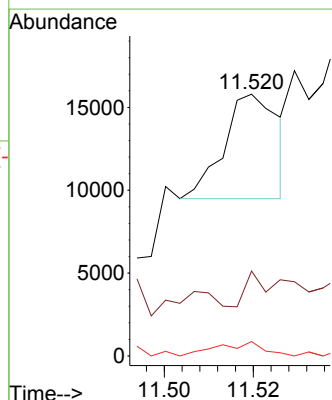
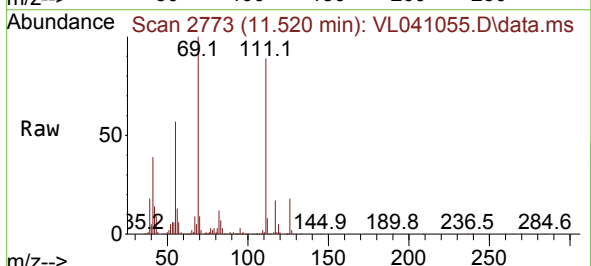
Instrument :
MSVOA_L
ClientSampleId :
SS3DL

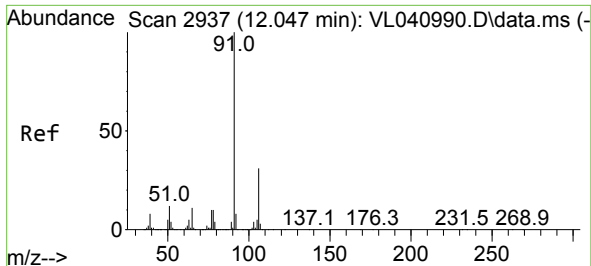
Tgt Ion:117 Resp: 3253484
Ion Ratio Lower Upper
117 100
82 61.4 51.7 77.5
119 33.3 23.8 35.6



#57
Chlorobenzene
Concen: 0.020 ppbv
RT: 11.520 min Scan# 2773
Delta R.T. 0.007 min
Lab File: VL041055.D
Acq: 9 Feb 2024 13:06

Tgt Ion:112 Resp: 5315
Ion Ratio Lower Upper
112 100
77 31.0 53.4 80.0#
114 10.7 29.1 35.5#

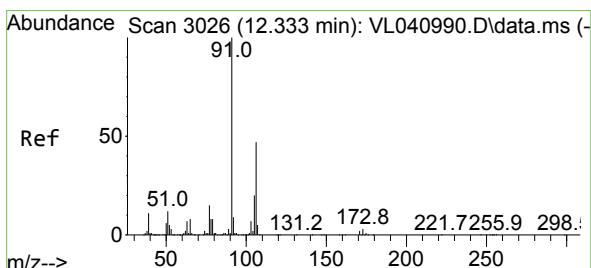
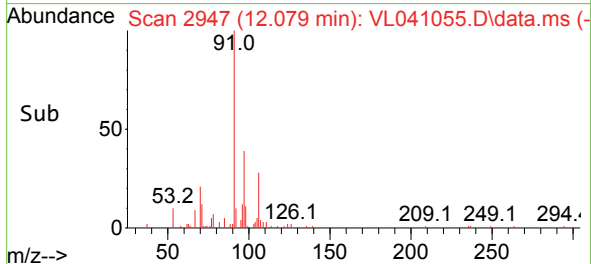
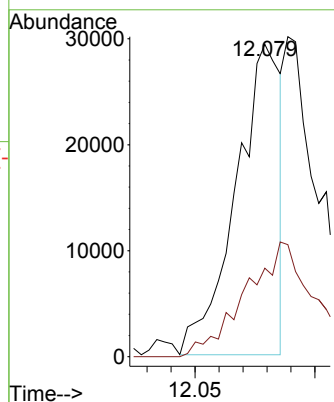
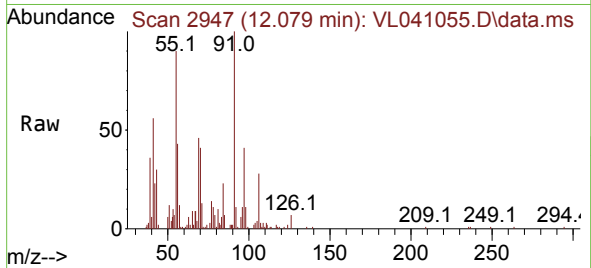




#58
Ethyl Benzene
Concen: 0.086 ppbv
RT: 12.079 min Scan# 2937
Delta R.T. 0.003 min
Lab File: VL041055.D
Acq: 9 Feb 2024 13:06

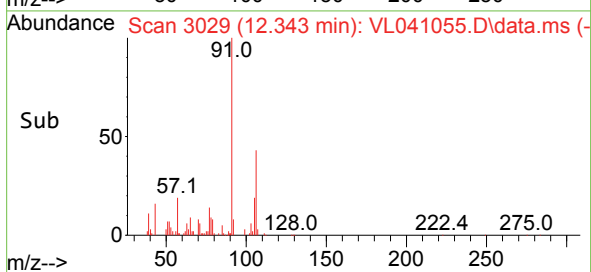
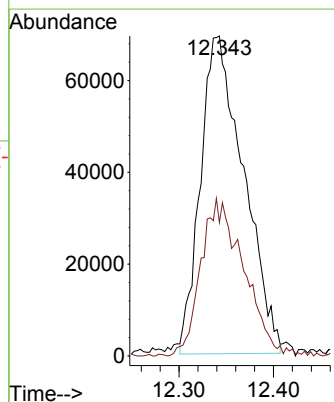
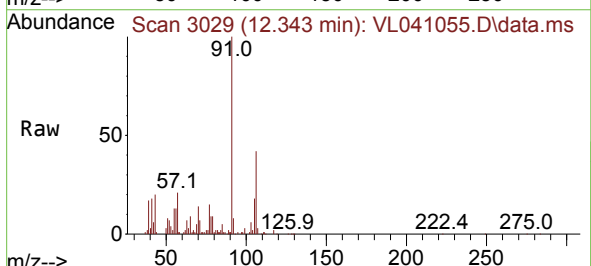
Instrument :
MSVOA_L
ClientSampleId :
SS3DL

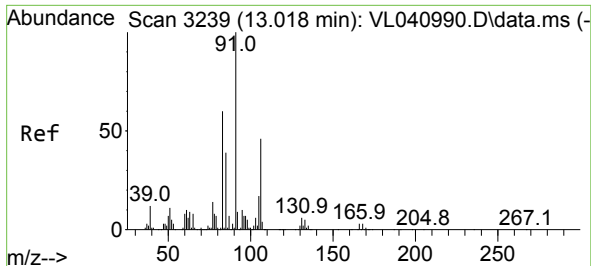
Tgt Ion: 91 Resp: 37702
Ion Ratio Lower Upper
91 100
106 27.2 24.8 37.2



#59
m/p-Xylene
Concen: 0.577 ppbv
RT: 12.343 min Scan# 3029
Delta R.T. -0.013 min
Lab File: VL041055.D
Acq: 9 Feb 2024 13:06

Tgt Ion: 91 Resp: 219833
Ion Ratio Lower Upper
91 100
106 49.4 34.9 52.3

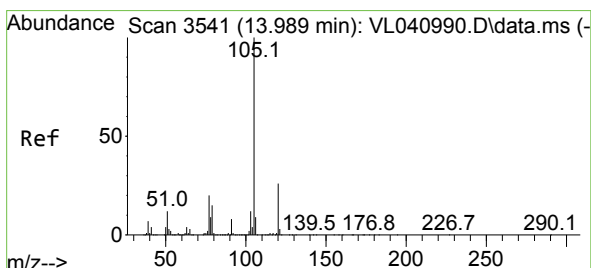
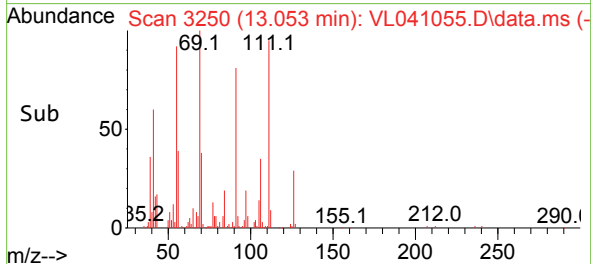
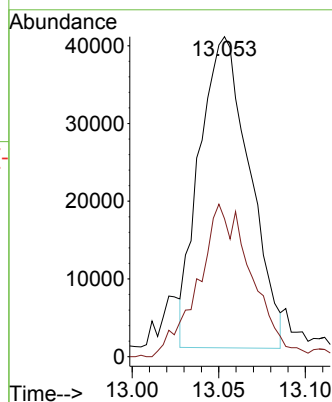
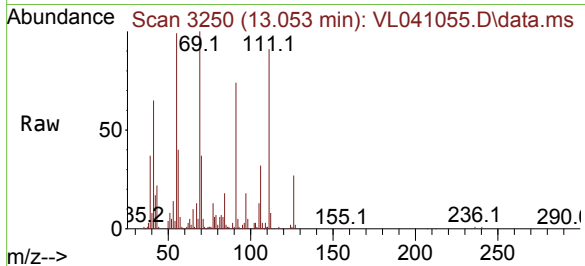




#60
o-Xylene
Concen: 0.221 ppbv
RT: 13.053 min Scan# 31
Delta R.T. 0.013 min
Lab File: VL041055.D
Acq: 9 Feb 2024 13:06

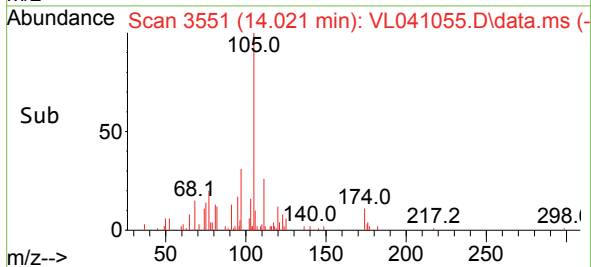
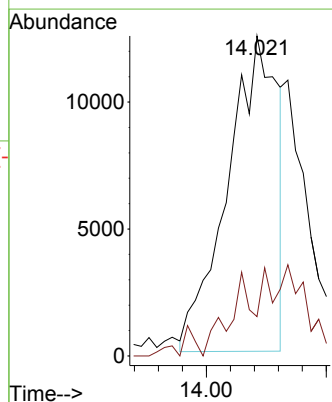
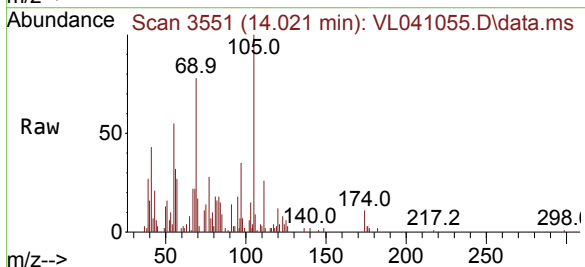
Instrument :
MSVOA_L
ClientSampleId :
SS3DL

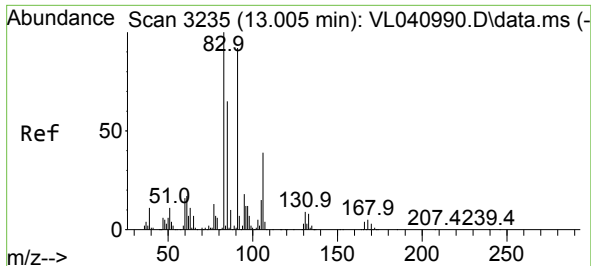
Tgt Ion: 91 Resp: 80641
Ion Ratio Lower Upper
91 100
106 52.9 22.6 67.7



#62
Isopropylbenzene
Concen: 0.033 ppbv
RT: 14.021 min Scan# 3551
Delta R.T. 0.006 min
Lab File: VL041055.D
Acq: 9 Feb 2024 13:06

Tgt Ion: 105 Resp: 18026
Ion Ratio Lower Upper
105 100
120 0.0 20.9 31.3#

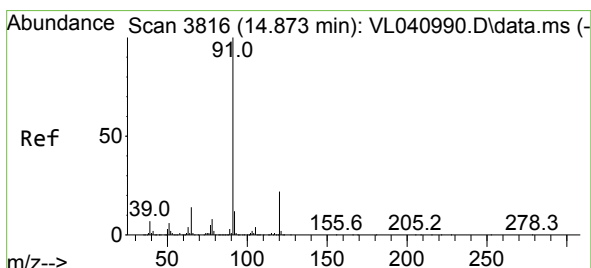
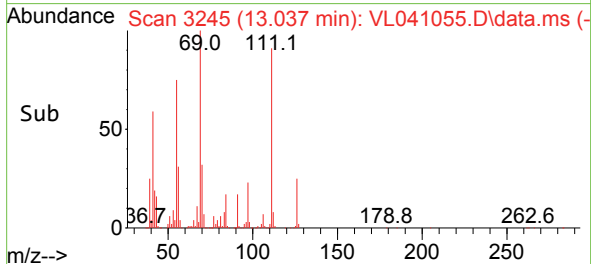
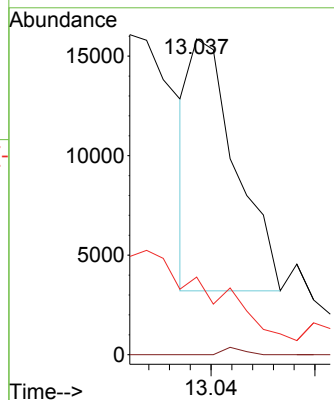
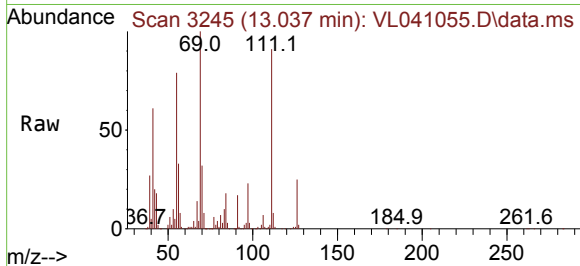




#63
1,1,2,2-Tetrachloroethane
Concen: 0.027 ppbv
RT: 13.037 min Scan# 31
Delta R.T. 0.003 min
Lab File: VL041055.D
Acq: 9 Feb 2024 13:06

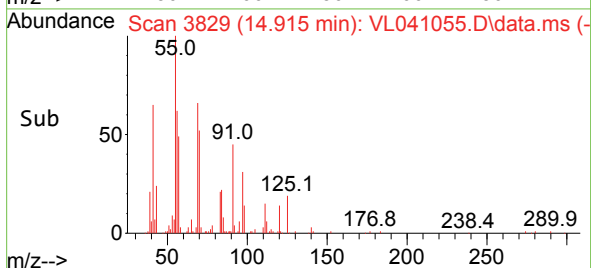
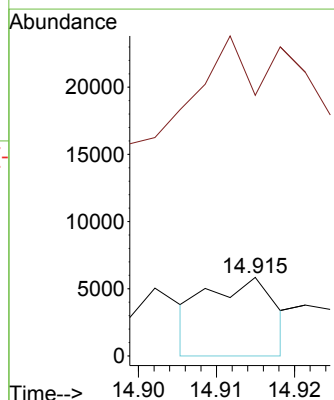
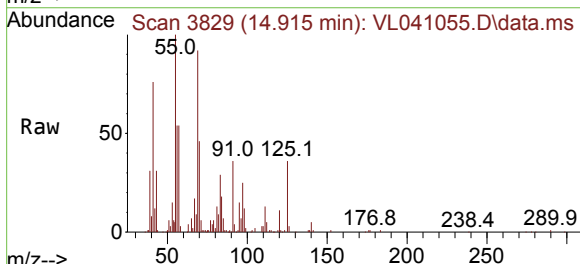
Instrument :
MSVOA_L
ClientSampleId :
SS3DL

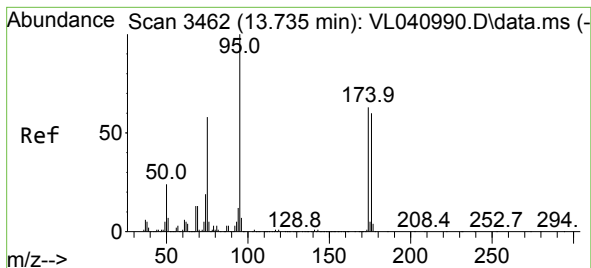
Tgt Ion: 83 Resp: 7723
Ion Ratio Lower Upper
83 100
131 1.3 4.6 13.8#
85 0.0 33.0 99.0#



#64
n-propylbenzene
Concen: 0.026 ppbv
RT: 14.915 min Scan# 3829
Delta R.T. 0.010 min
Lab File: VL041055.D
Acq: 9 Feb 2024 13:06

Tgt Ion:120 Resp: 3586
Ion Ratio Lower Upper
120 100
91 1600.6 390.6 585.8#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.236 ppbv

RT: 13.770 min Scan# 3462

Delta R.T. 0.010 min

Lab File: VL041055.D

Acq: 9 Feb 2024 13:06

Instrument :

MSVOA_L

ClientSampleId :

SS3DL

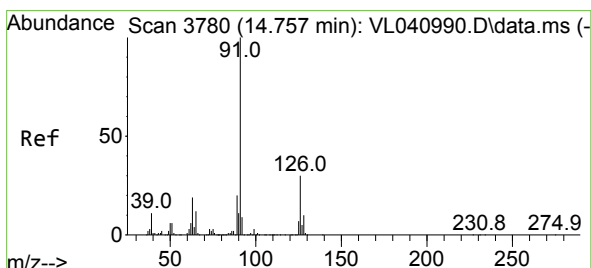
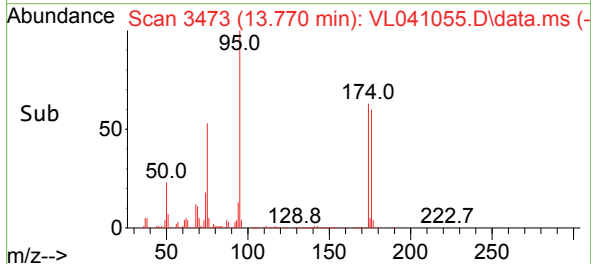
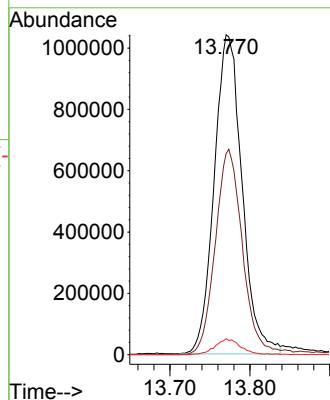
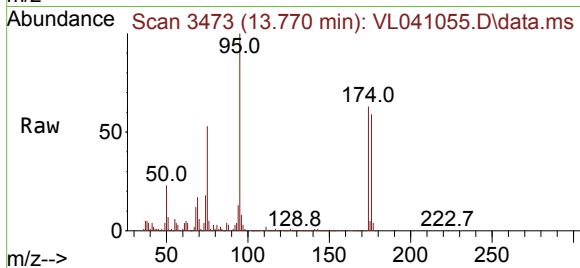
Tgt Ion: 95 Resp: 2515379

Ion Ratio Lower Upper

95 100

174 65.1 49.1 73.7

175 4.6 3.7 5.5



#71

2-Chlorotoluene

Concen: 0.054 ppbv

RT: 14.918 min Scan# 3830

Delta R.T. 0.135 min

Lab File: VL041055.D

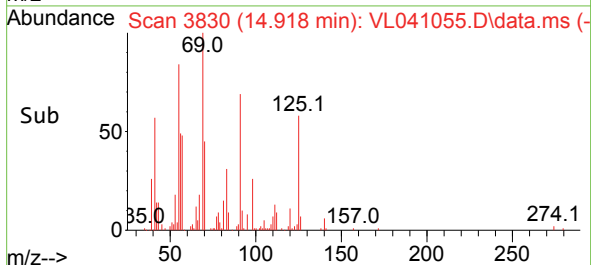
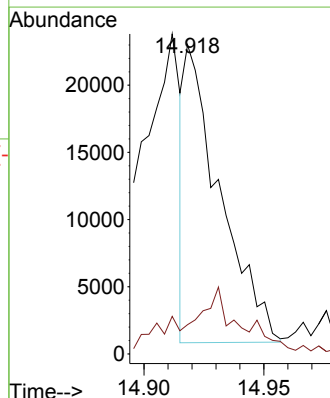
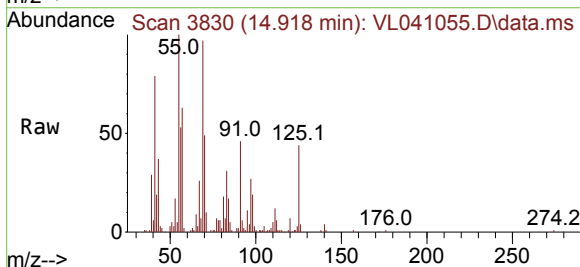
Acq: 9 Feb 2024 13:06

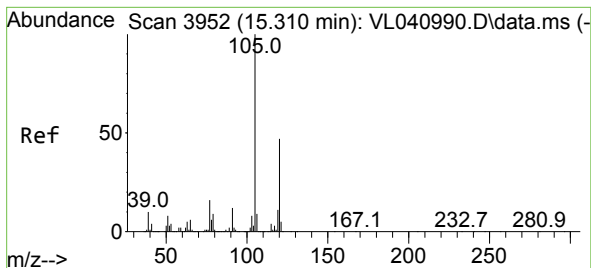
Tgt Ion: 91 Resp: 22671

Ion Ratio Lower Upper

91 100

126 40.5 12.3 49.1





#73

1,3,5-Trimethylbenzene

Concen: 0.077 ppbv

RT: 15.346 min Scan# 3952

Delta R.T. 0.010 min

Lab File: VL041055.D

Acq: 9 Feb 2024 13:06

Instrument :

MSVOA_L

ClientSampleId :

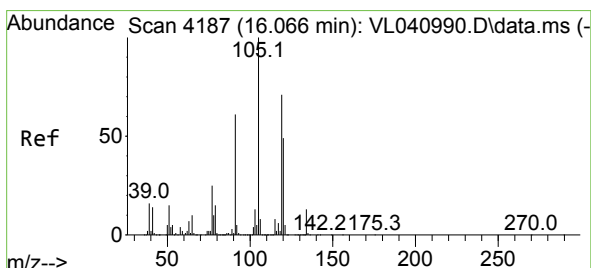
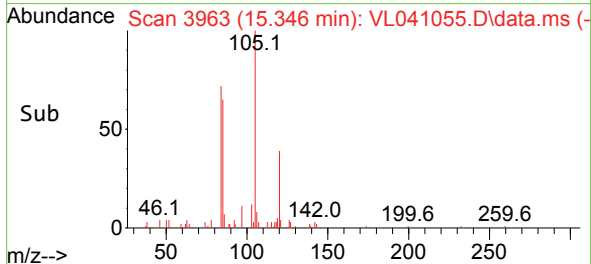
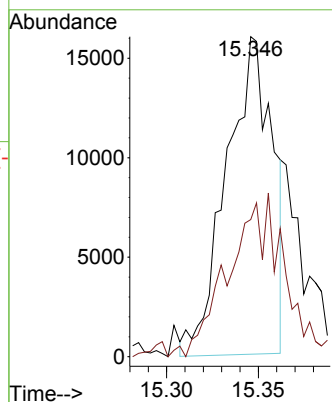
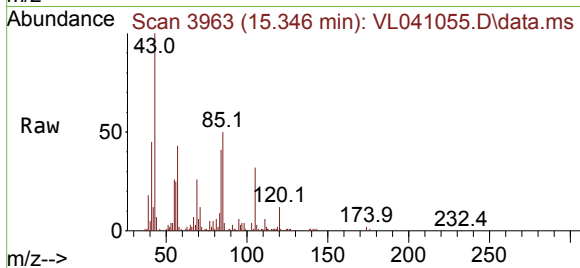
SS3DL

Tgt Ion:105 Resp: 27720

Ion Ratio Lower Upper

105 100

120 41.5 37.2 55.8



#74

1,2,4-Trimethylbenzene

Concen: 0.027 ppbv

RT: 16.105 min Scan# 4199

Delta R.T. 0.010 min

Lab File: VL041055.D

Acq: 9 Feb 2024 13:06

Tgt Ion:105 Resp: 11216

Ion Ratio Lower Upper

105 100

120 15.4 39.3 58.9#

91 4.0 48.7 73.1#

77 1.2 19.8 29.8#

