

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050224\
 Data File : VL041204.D
 Acq On : 2 May 2024 20:43
 Operator : SY/MD
 Sample : P2334-08
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 BA-20-IA03-20240425

Quant Time: May 03 03:44:28 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL042924AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 03 03:34:47 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.189	49	868272	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.648	114	2169496	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.462	117	1983224	10.000	ppbv	0.00

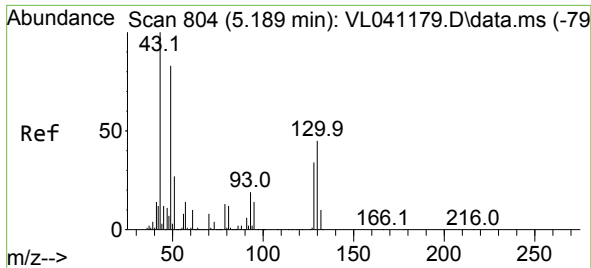
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.770	95	1528678	10.210	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.100%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.729	85	41275	0.351	ppbv	98
3) Chlorodifluoromethane	2.677	51	71189	0.540	ppbv #	79
4) Chloromethane	2.816	50	65965	1.275	ppbv #	85
9) Propene	2.700	41	159480	3.090	ppbv	87
11) Trichlorofluoromethane	3.562	101	27317	0.229	ppbv #	81
12) 1,1,2-Trichlorotrifluo...	4.063	101	6224	0.071	ppbv	96
13) Ethanol	3.237	45	1606518	138.867	ppbv	98
15) Acetone	3.462	43	3278639	31.995	ppbv	99
16) 1,3-Butadiene	2.980	39	18119	0.350	ppbv #	41
19) Isopropyl Alcohol	3.581	45	68867	1.024	ppbv #	1
20) Methylene Chloride	3.935	84	282946	7.940	ppbv	97
23) Vinyl Acetate	4.620	43	17713	0.157	ppbv #	48
25) Ethyl Acetate	5.208	43	214765	1.050	ppbv #	91
26) Hexane	5.211	57	223254	2.446	ppbv #	51
27) Carbon Disulfide	4.121	76	5045	0.047	ppbv #	1
31) cis-1,2-Dichloroethene	5.192	61	2669	0.031	ppbv #	41
34) 2-Butanone	4.784	43	97640	0.884	ppbv	98
35) Carbon Tetrachloride	6.491	117	6439	0.053	ppbv #	94
36) Benzene	6.369	78	71496	0.393	ppbv	95
39) 1,2-Dichloropropane	6.648	63	564522	8.046	ppbv #	24
41) Tetrahydrofuran	5.549	42	3118	0.039	ppbv #	38
44) 2,2,4-Trimethylpentane	7.327	57	12106	0.039	ppbv #	9
53) Toluene	9.214	91	86436	0.409	ppbv #	20
58) Ethyl Benzene	12.082	91	15540	0.057	ppbv	96
59) m/p-Xylene	12.378	91	9214	0.040	ppbv #	31
61) Styrene	12.886	104	3458	0.031	ppbv #	1
74) 1,2,4-Trimethylbenzene	16.101	105	8076	0.034	ppbv #	53

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

Quant Time: May 03 03:44:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL042924AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 03 03:34:47 2024
Response via : Initial Calibration

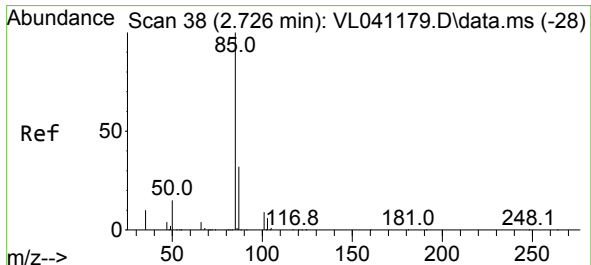
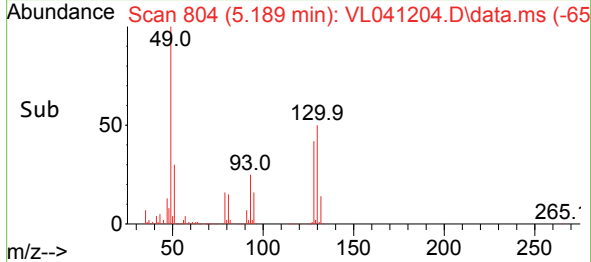
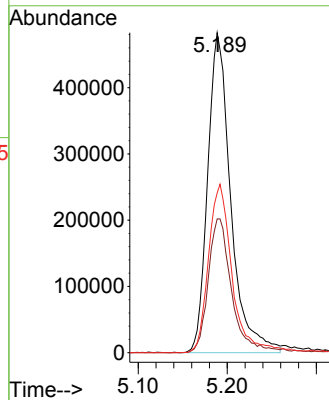
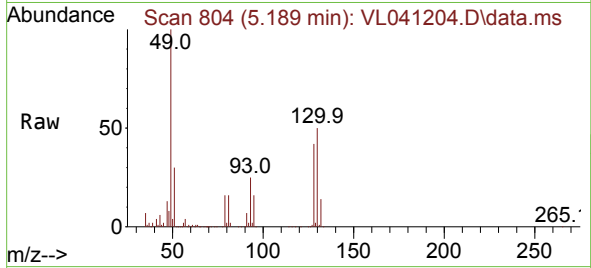




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.189 min Scan# 804
 Delta R.T. -0.003 min
 Lab File: VL041204.D
 Acq: 2 May 2024 20:43

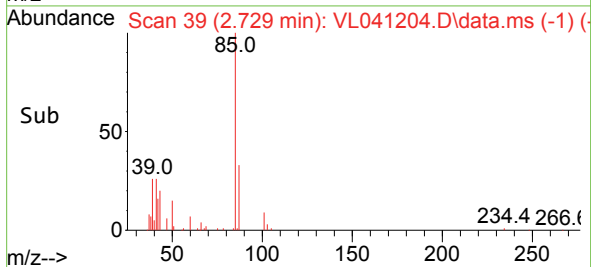
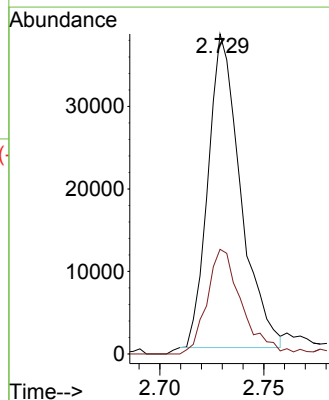
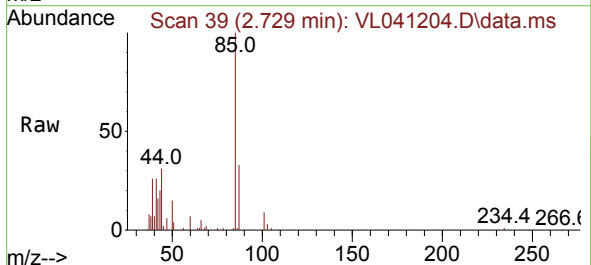
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 BA-20-IA03-20240425

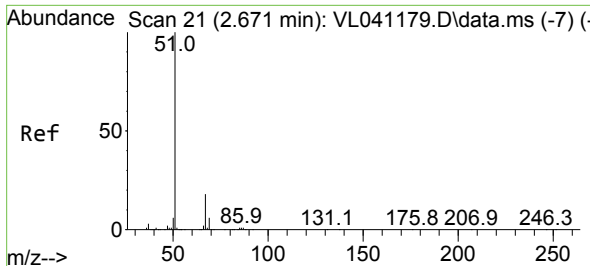
Tgt Ion: 49 Resp: 868272
 Ion Ratio Lower Upper
 49 100
 128 43.4 21.5 64.5
 130 54.6 27.2 81.6



#2
 Dichlorodifluoromethane
 Concen: 0.351 ppbv
 RT: 2.729 min Scan# 39
 Delta R.T. 0.000 min
 Lab File: VL041204.D
 Acq: 2 May 2024 20:43

Tgt Ion: 85 Resp: 41275
 Ion Ratio Lower Upper
 85 100
 87 33.4 25.7 38.5

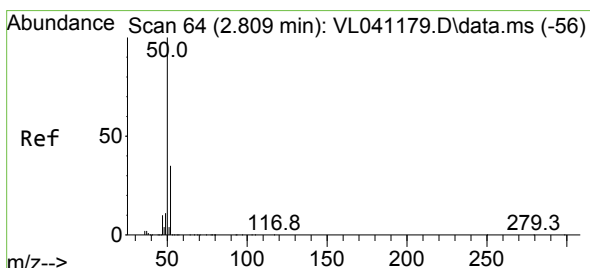
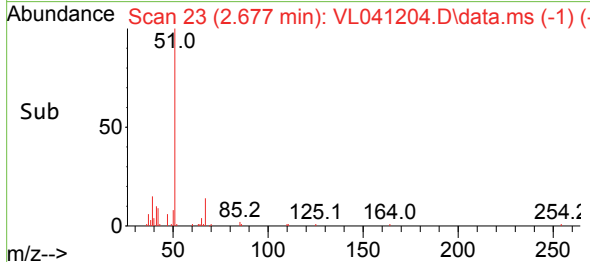
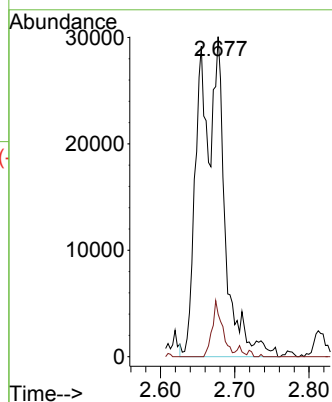
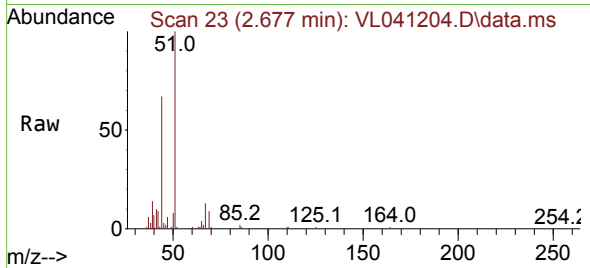




#3
Chlorodifluoromethane
Concen: 0.540 ppbv
RT: 2.677 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL041204.D
Acq: 2 May 2024 20:43

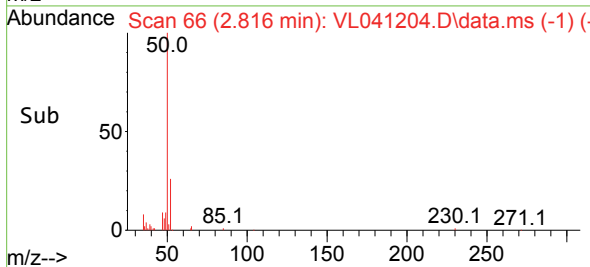
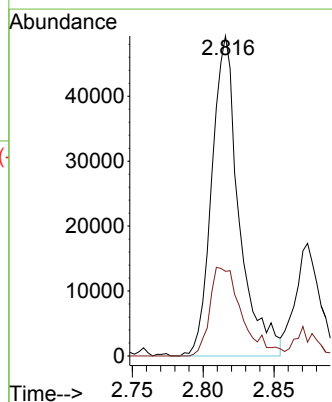
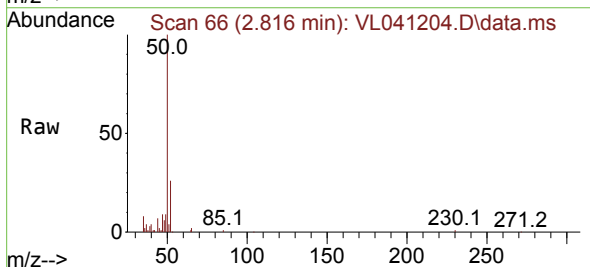
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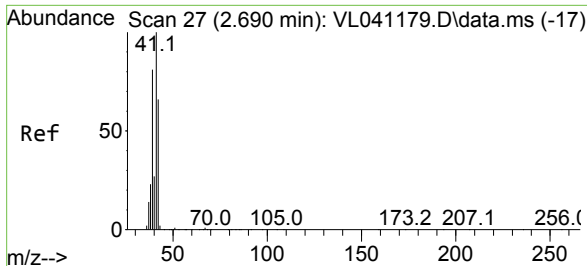
Tgt Ion: 51 Resp: 71189
Ion Ratio Lower Upper
51 100
67 8.2 14.0 21.0#



#4
Chloromethane
Concen: 1.275 ppbv
RT: 2.816 min Scan# 66
Delta R.T. 0.003 min
Lab File: VL041204.D
Acq: 2 May 2024 20:43

Tgt Ion: 50 Resp: 65965
Ion Ratio Lower Upper
50 100
52 26.5 28.3 42.5#

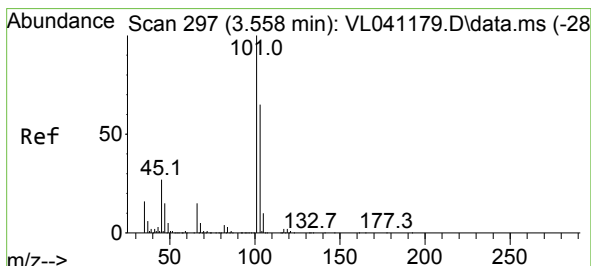
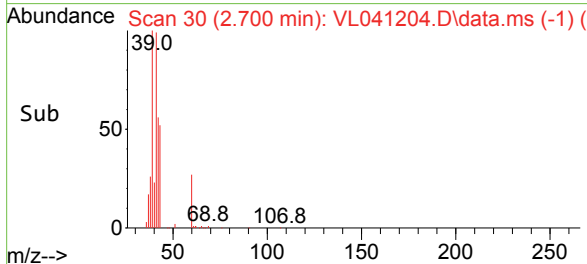
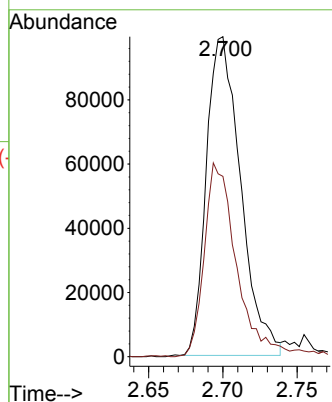
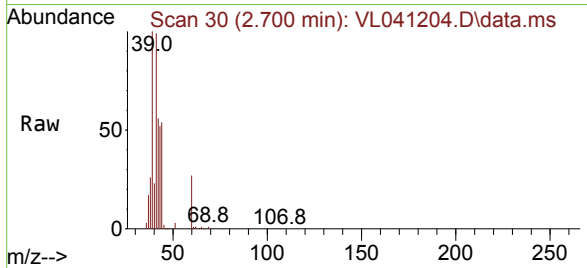




#9
Propene
Concen: 3.090 ppbv
RT: 2.700 min Scan# 30
Delta R.T. 0.007 min
Lab File: VL041204.D
Acq: 2 May 2024 20:43

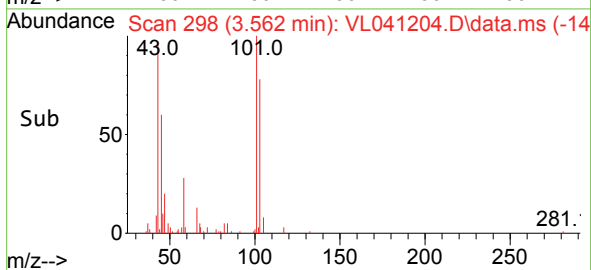
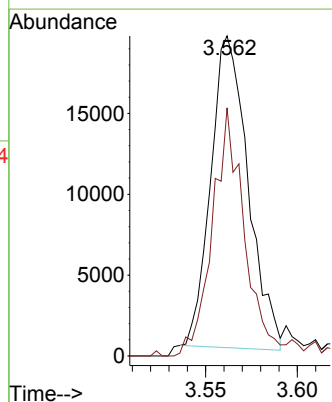
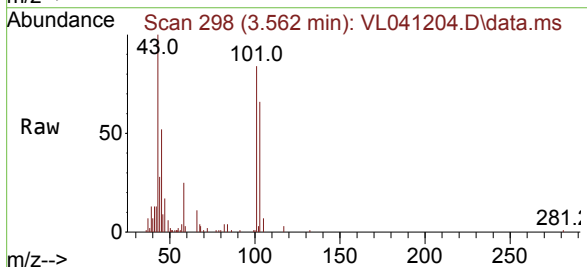
Instrument :
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ClientSampleId :
BA-20-IA03-20240425

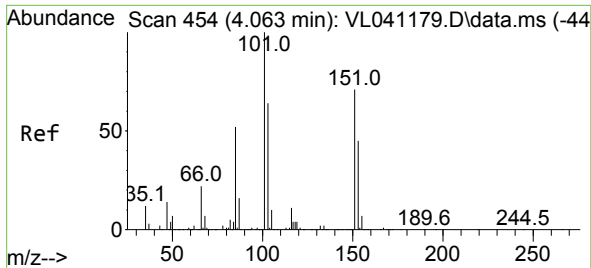
Tgt Ion: 41 Resp: 159480
Ion Ratio Lower Upper
41 100
42 58.6 55.3 82.9



#11
Trichlorofluoromethane
Concen: 0.229 ppbv
RT: 3.562 min Scan# 298
Delta R.T. 0.003 min
Lab File: VL041204.D
Acq: 2 May 2024 20:43

Tgt Ion:101 Resp: 27317
Ion Ratio Lower Upper
101 100
103 79.2 51.6 77.4#

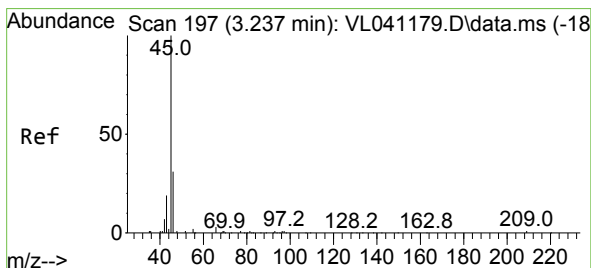
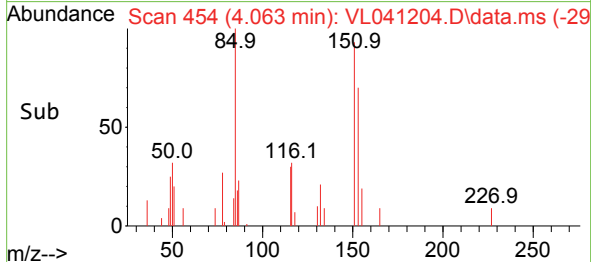
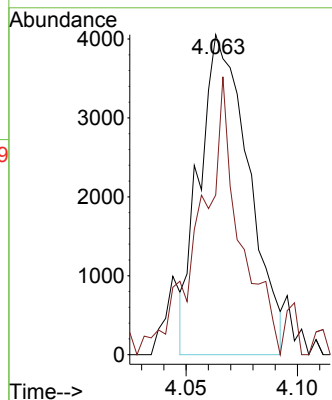
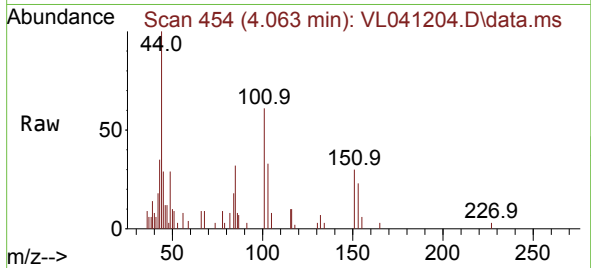




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.071 ppbv
RT: 4.063 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL041204.D
Acq: 2 May 2024 20:43

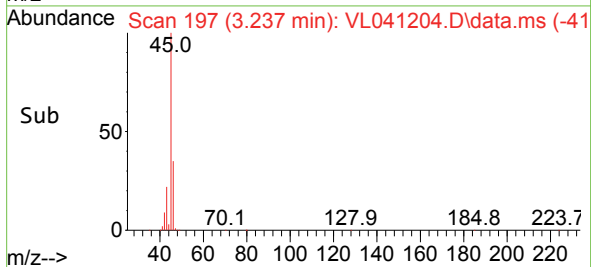
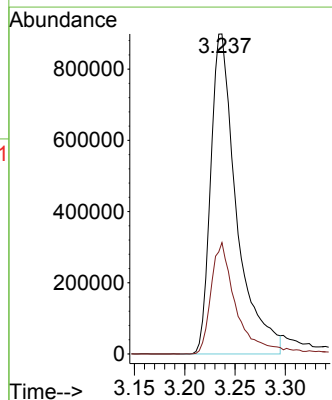
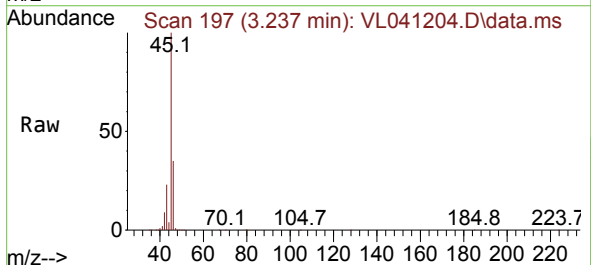
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BA-20-IA03-20240425

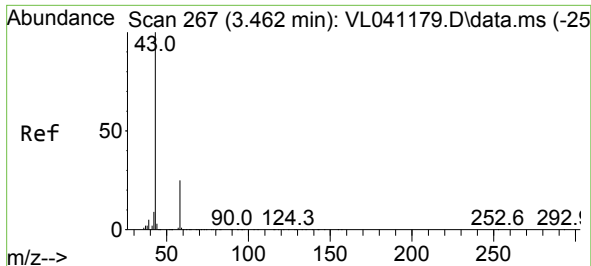
Tgt Ion:101 Resp: 6224
Ion Ratio Lower Upper
101 100
151 74.6 56.8 85.2



#13
Ethanol
Concen: 138.867 ppbv
RT: 3.237 min Scan# 197
Delta R.T. 0.000 min
Lab File: VL041204.D
Acq: 2 May 2024 20:43

Tgt Ion: 45 Resp: 1606518
Ion Ratio Lower Upper
45 100
46 35.7 14.8 59.0

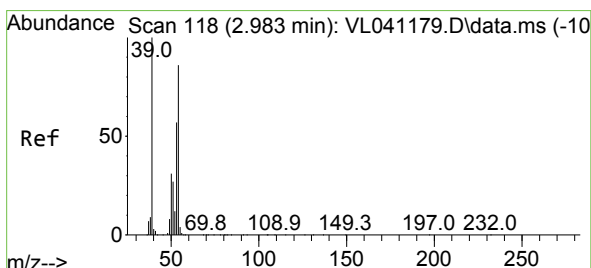
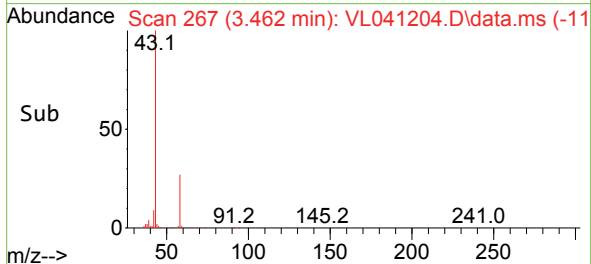
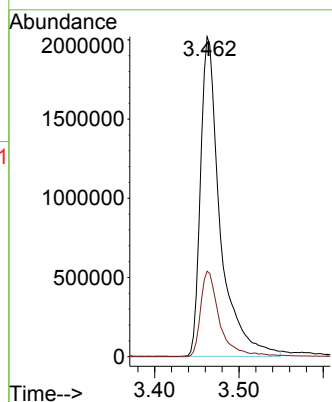
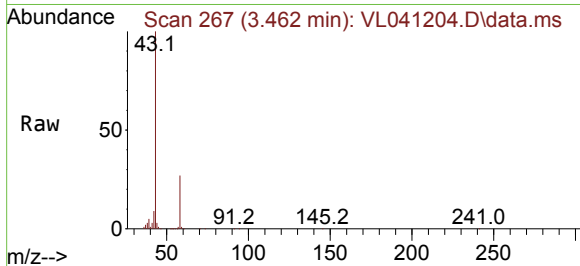




#15
Acetone
Concen: 31.995 ppbv
RT: 3.462 min Scan# 20
Delta R.T. -0.003 min
Lab File: VL041204.D
Acq: 2 May 2024 20:43

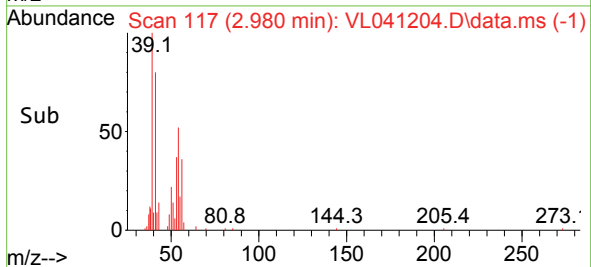
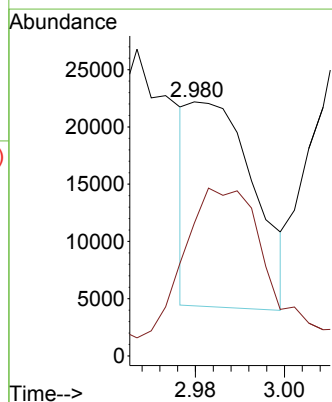
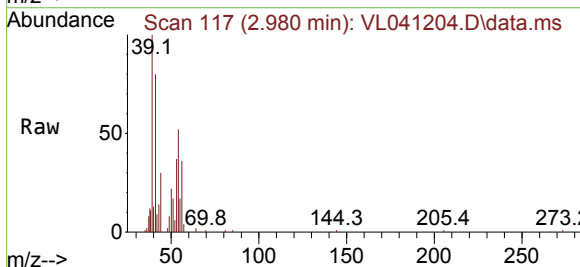
Instrument :
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ClientSampleId :
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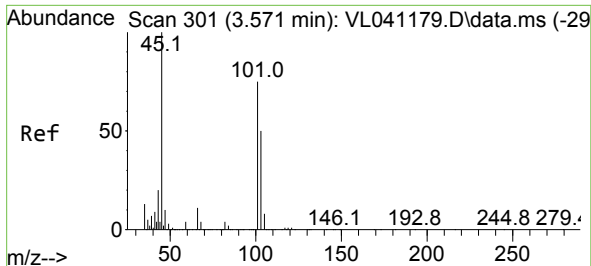
Tgt Ion: 43 Resp: 3278639
Ion Ratio Lower Upper
43 100
58 26.4 21.4 32.0



#16
1,3-Butadiene
Concen: 0.350 ppbv
RT: 2.980 min Scan# 117
Delta R.T. -0.003 min
Lab File: VL041204.D
Acq: 2 May 2024 20:43

Tgt Ion: 39 Resp: 18119
Ion Ratio Lower Upper
39 100
54 128.8 62.2 93.4#

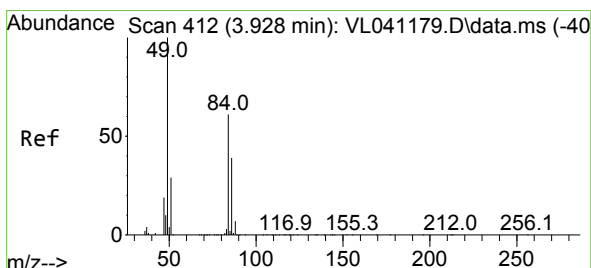
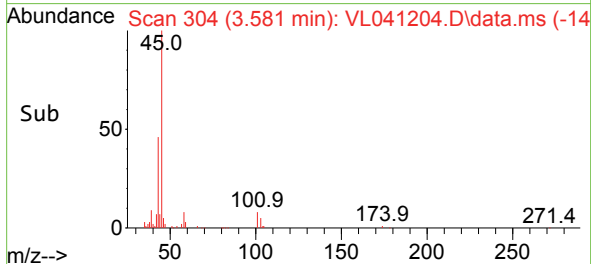
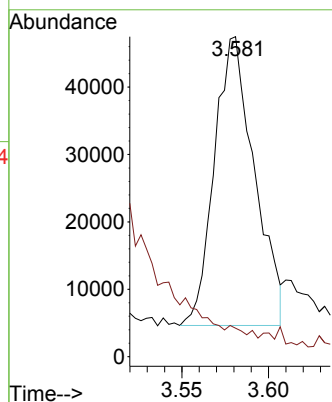
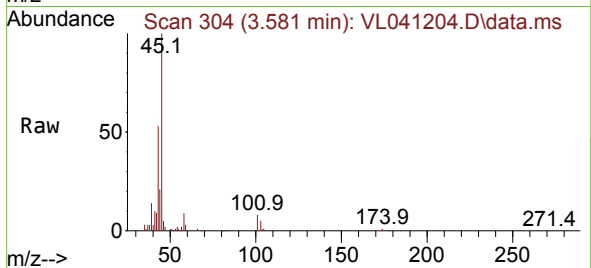




#19
Isopropyl Alcohol
Concen: 1.024 ppbv
RT: 3.581 min Scan# 301
Delta R.T. 0.010 min
Lab File: VL041204.D
Acq: 2 May 2024 20:43

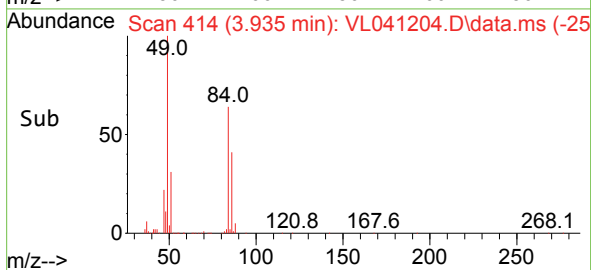
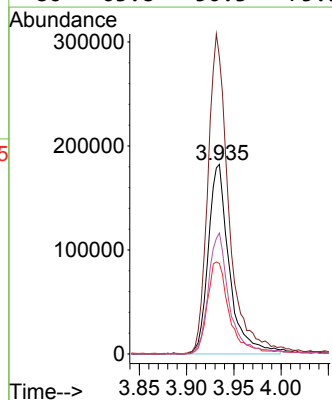
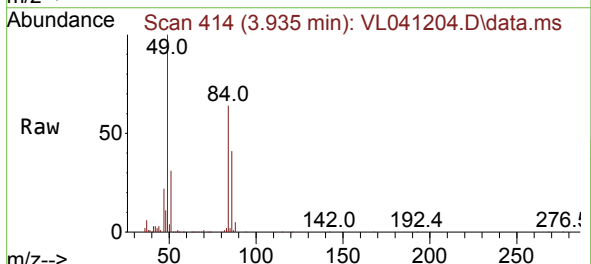
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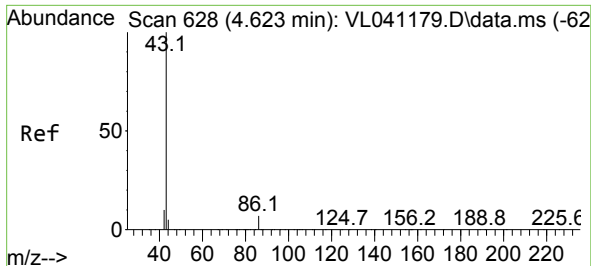
Tgt Ion: 45 Resp: 68867
Ion Ratio Lower Upper
45 100
58 1256.0 26.8 40.2#



#20
Methylene Chloride
Concen: 7.940 ppbv
RT: 3.935 min Scan# 414
Delta R.T. 0.003 min
Lab File: VL041204.D
Acq: 2 May 2024 20:43

Tgt Ion: 84 Resp: 282946
Ion Ratio Lower Upper
84 100
49 156.3 130.4 195.6
51 47.6 38.0 57.0
86 63.8 50.3 75.5



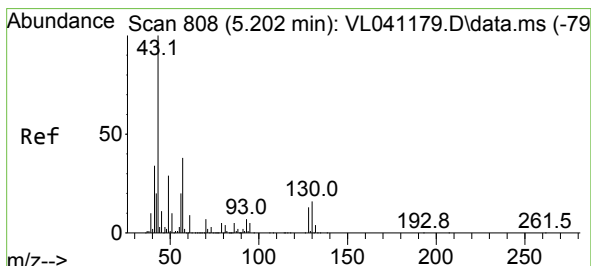
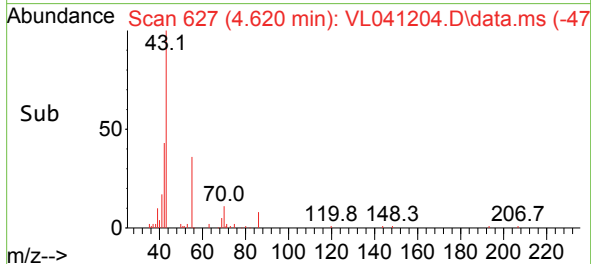
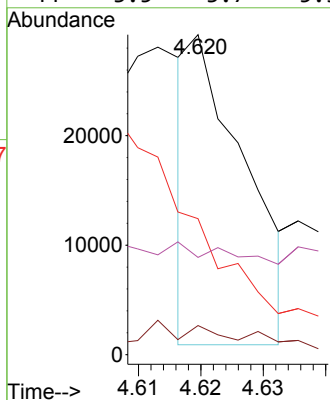
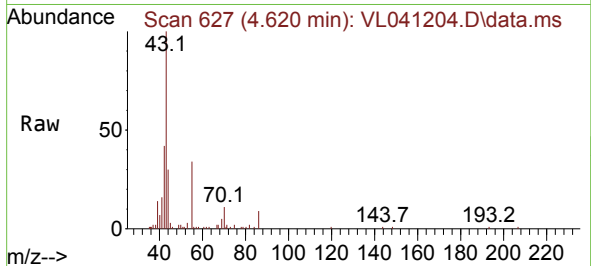


#23
 Vinyl Acetate
 Concen: 0.157 ppbv
 RT: 4.620 min Scan# 61
 Delta R.T. -0.006 min
 Lab File: VL041204.D
 Acq: 2 May 2024 20:43

Instrument :
 MSVOA_L
 ClientSampleId :
 BA-20-IA03-20240425

Tgt Ion: 43 Resp: 17713

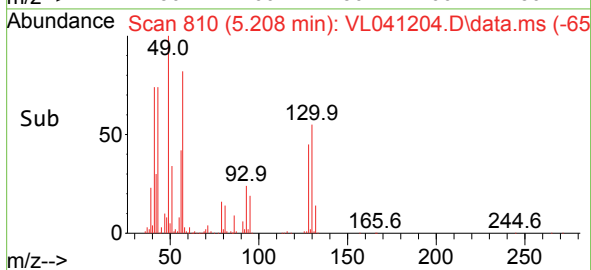
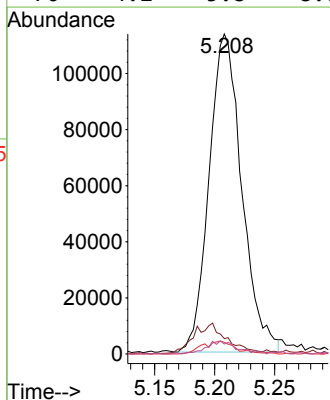
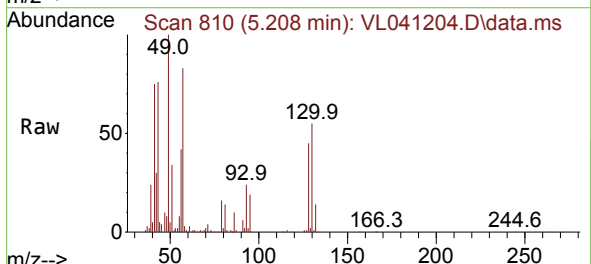
Ion	Ratio	Lower	Upper
43	100		
86	8.3	4.9	7.3#
42	48.2	8.0	12.0#
44	3.5	3.7	5.5#

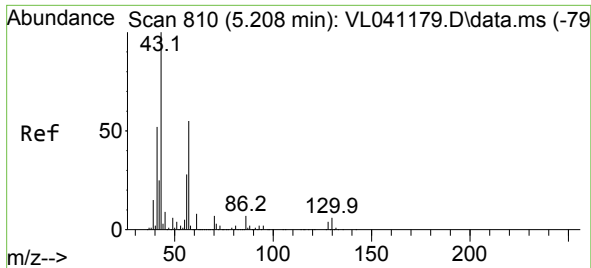


#25
 Ethyl Acetate
 Concen: 1.050 ppbv
 RT: 5.208 min Scan# 810
 Delta R.T. 0.007 min
 Lab File: VL041204.D
 Acq: 2 May 2024 20:43

Tgt Ion: 43 Resp: 214765

Ion	Ratio	Lower	Upper
43	100		
45	11.4	8.2	12.2
61	4.2	7.7	11.5#
70	4.2	5.8	8.6#

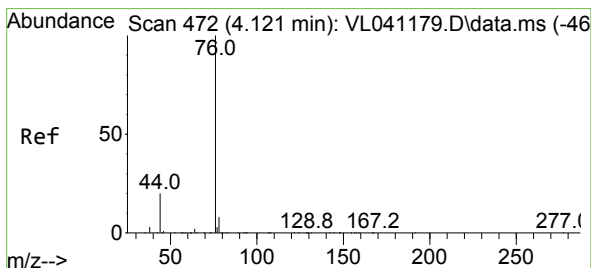
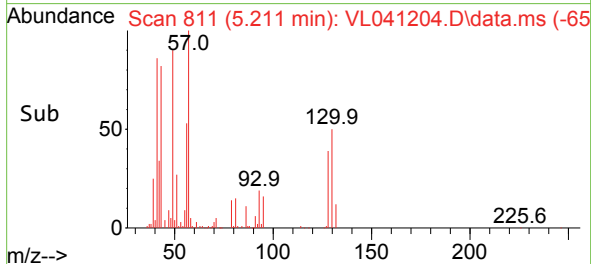
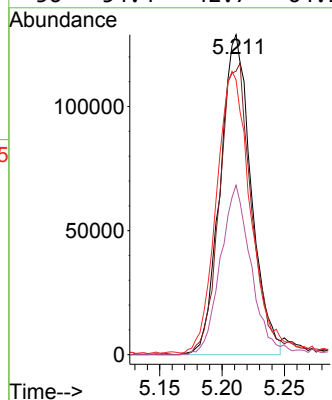
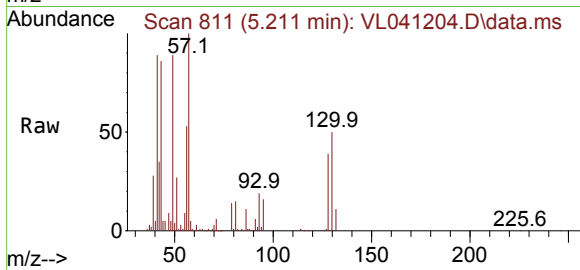




#26
Hexane
Concen: 2.446 ppbv
RT: 5.211 min Scan# 810
Delta R.T. 0.000 min
Lab File: VL041204.D
Acq: 2 May 2024 20:43

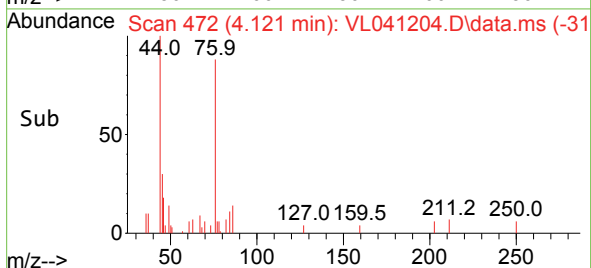
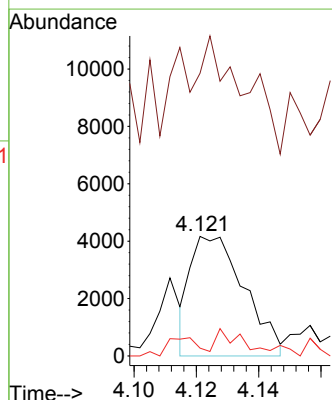
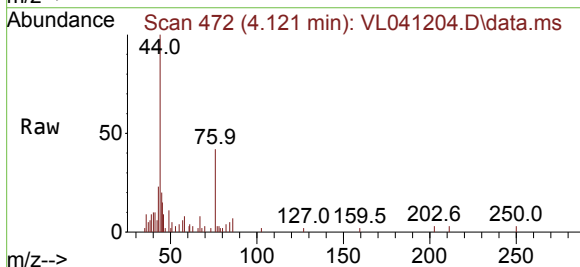
Instrument :
MSVOA_L
ClientSampleId :
BA-20-IA03-20240425

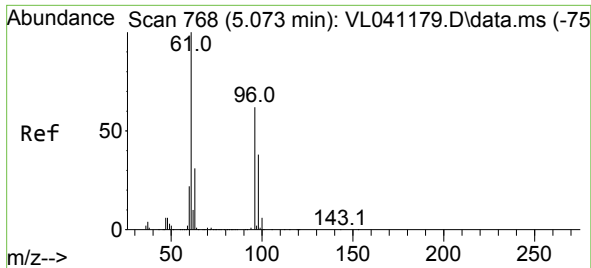
Tgt Ion: 57 Resp: 223254
Ion Ratio Lower Upper
57 100
41 95.9 75.8 113.8
43 100.2 187.0 280.4#
56 54.4 42.7 64.1



#27
Carbon Disulfide
Concen: 0.047 ppbv
RT: 4.121 min Scan# 472
Delta R.T. 0.000 min
Lab File: VL041204.D
Acq: 2 May 2024 20:43

Tgt Ion: 76 Resp: 5045
Ion Ratio Lower Upper
76 100
44 126.3 16.3 24.5#
78 25.6 7.3 10.9#

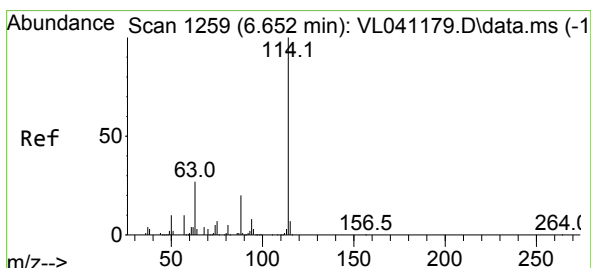
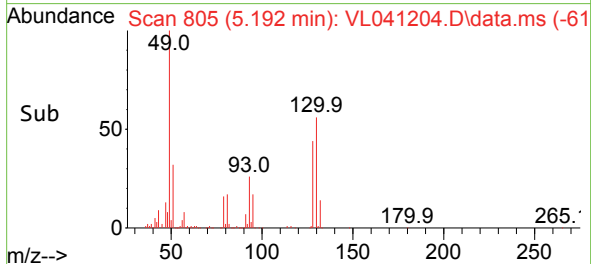
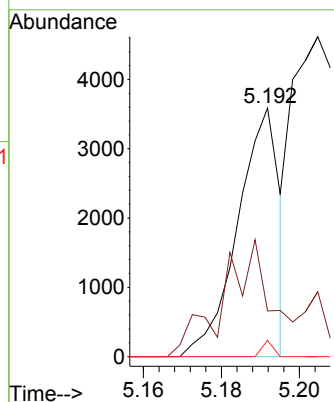
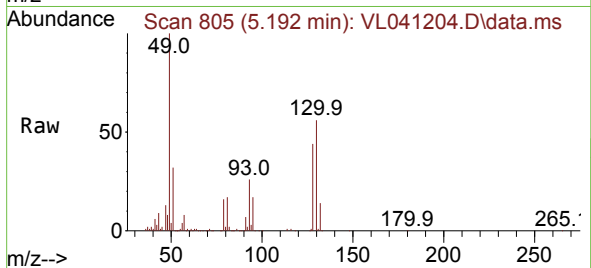




#31
 cis-1,2-Dichloroethene
 Concen: 0.031 ppbv
 RT: 5.192 min Scan# 805
 Delta R.T. 0.116 min
 Lab File: VL041204.D
 Acq: 2 May 2024 20:43

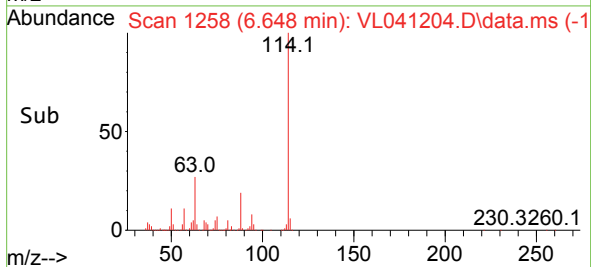
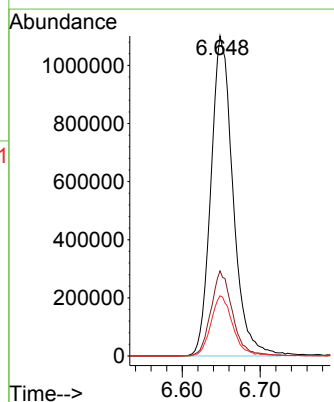
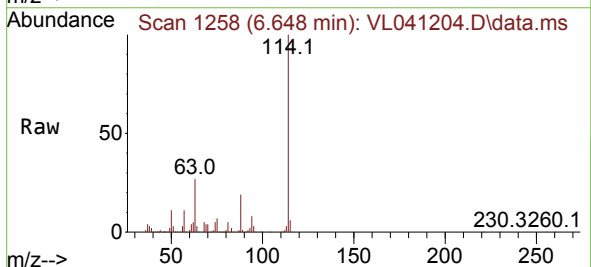
Instrument :
 MSVOA_L
 ClientSampleId :
 BA-20-IA03-20240425

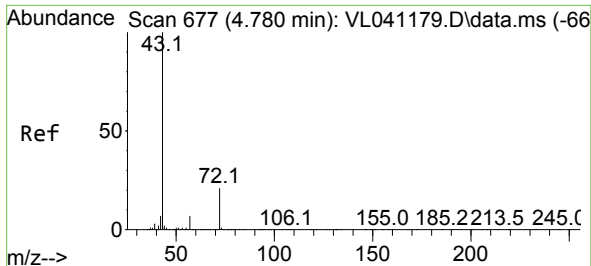
Tgt Ion: 61 Resp: 2669
 Ion Ratio Lower Upper
 61 100
 96 13.7 49.8 74.6#
 98 6.6 30.0 45.0#



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 6.648 min Scan# 1258
 Delta R.T. -0.003 min
 Lab File: VL041204.D
 Acq: 2 May 2024 20:43

Tgt Ion: 114 Resp: 2169496
 Ion Ratio Lower Upper
 114 100
 63 26.2 21.8 32.6
 88 18.7 15.2 22.8

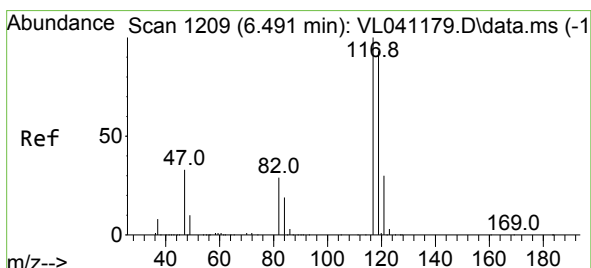
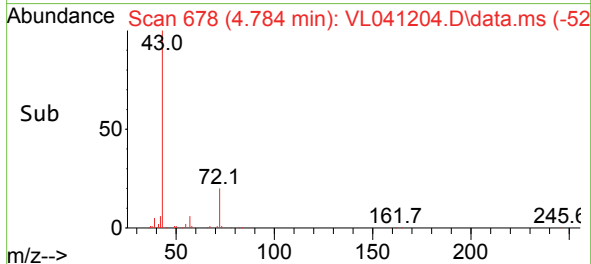
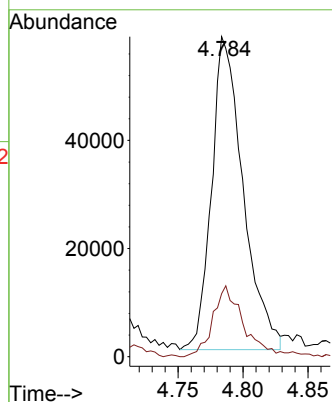
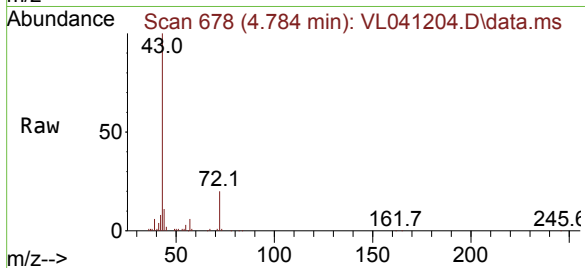




#34
2-Butanone
Concen: 0.884 ppbv
RT: 4.784 min Scan# 61
Delta R.T. 0.000 min
Lab File: VL041204.D
Acq: 2 May 2024 20:43

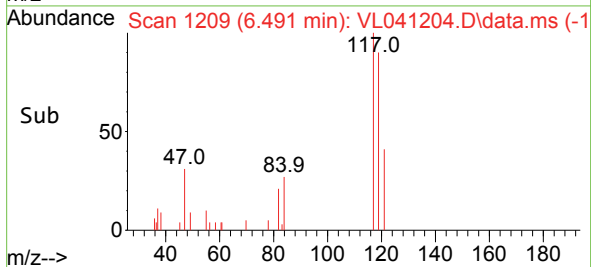
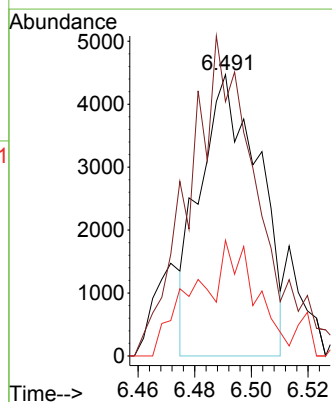
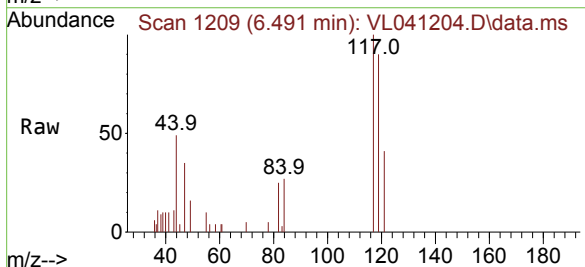
Instrument :
MSVOA_L
ClientSampleId :
BA-20-IA03-20240425

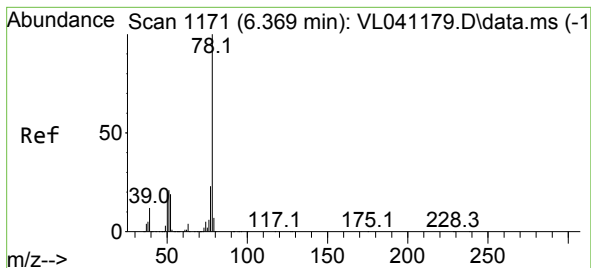
Tgt Ion: 43 Resp: 97640
Ion Ratio Lower Upper
43 100
72 22.5 17.3 25.9



#35
Carbon Tetrachloride
Concen: 0.053 ppbv
RT: 6.491 min Scan# 1209
Delta R.T. 0.000 min
Lab File: VL041204.D
Acq: 2 May 2024 20:43

Tgt Ion: 117 Resp: 6439
Ion Ratio Lower Upper
117 100
119 92.3 74.3 111.5
121 42.4 23.8 35.8#





#36

Benzene

Concen: 0.393 ppbv

RT: 6.369 min Scan# 1171

Delta R.T. 0.000 min

Lab File: VL041204.D

Acq: 2 May 2024 20:43

Instrument :

MSVOA_L

ClientSampleId :

BA-20-IA03-20240425

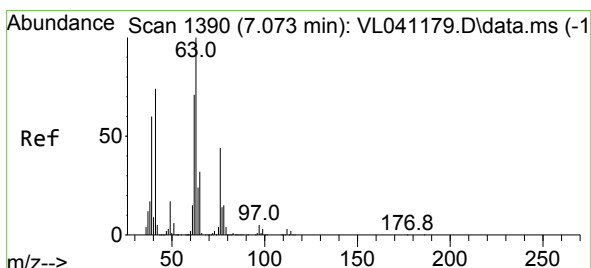
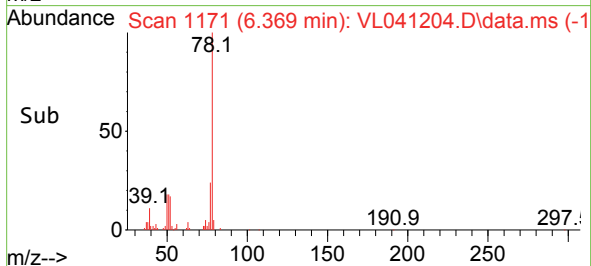
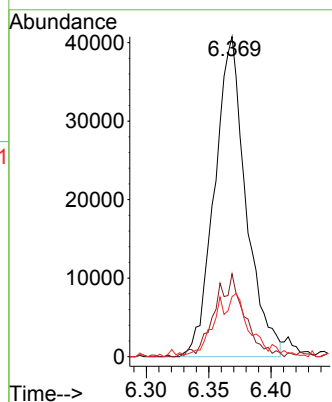
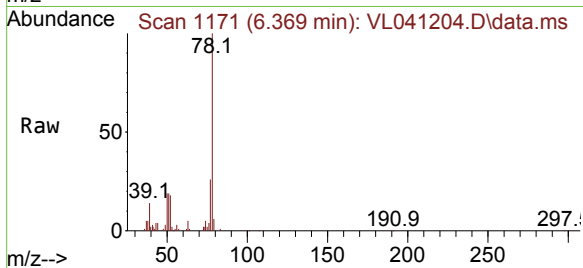
Tgt Ion: 78 Resp: 71496

Ion Ratio Lower Upper

78 100

77 25.1 18.3 27.5

50 17.6 15.9 23.9



#39

1,2-Dichloropropane

Concen: 8.046 ppbv

RT: 6.648 min Scan# 1258

Delta R.T. -0.424 min

Lab File: VL041204.D

Acq: 2 May 2024 20:43

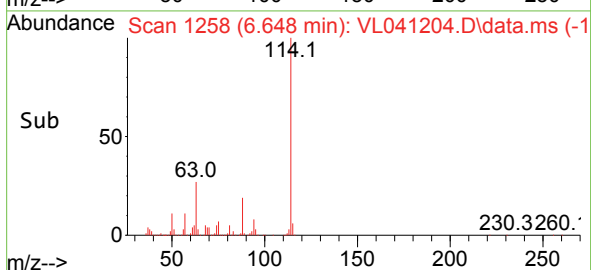
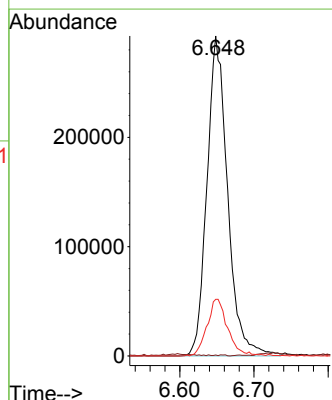
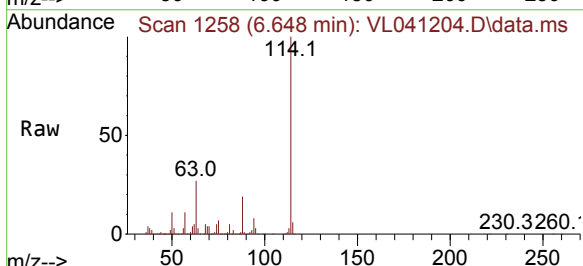
Tgt Ion: 63 Resp: 564522

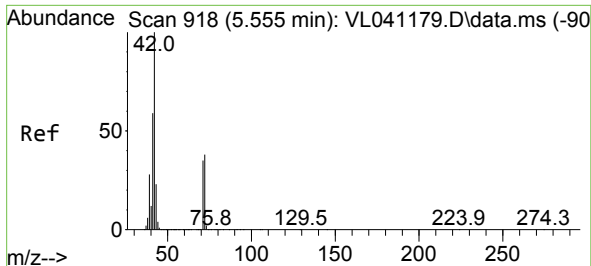
Ion Ratio Lower Upper

63 100

41 0.0 59.4 89.0#

62 17.7 56.8 85.2#





#41

Tetrahydrofuran

Concen: 0.039 ppbv

RT: 5.549 min Scan# 916

Delta R.T. -0.003 min

Lab File: VL041204.D

Acq: 2 May 2024 20:43

Instrument :

MSVOA_L

ClientSampleId :

BA-20-IA03-20240425

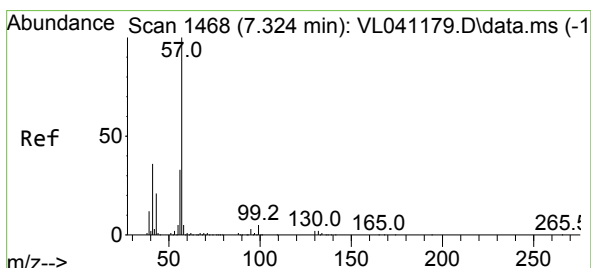
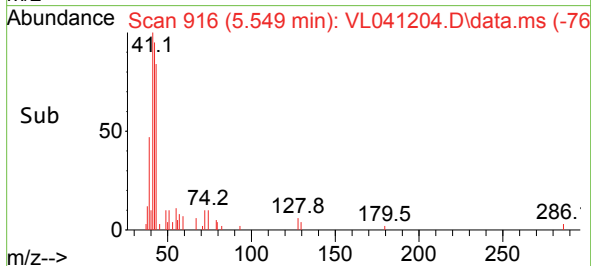
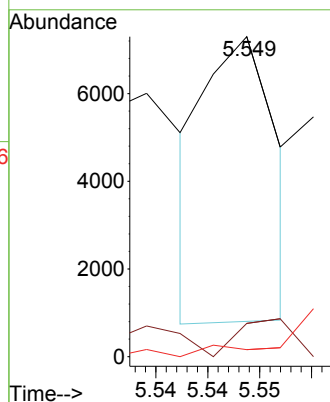
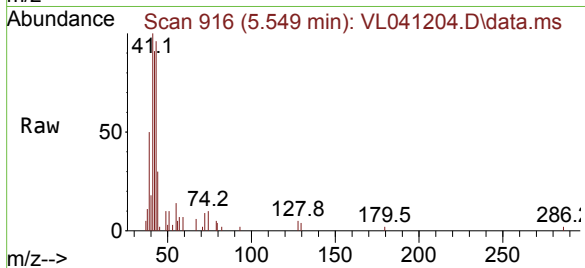
Tgt Ion: 42 Resp: 3118

Ion Ratio Lower Upper

42 100

72 0.0 29.4 44.0#

71 0.0 29.1 43.7#



#44

2,2,4-Trimethylpentane

Concen: 0.039 ppbv

RT: 7.327 min Scan# 1469

Delta R.T. 0.000 min

Lab File: VL041204.D

Acq: 2 May 2024 20:43

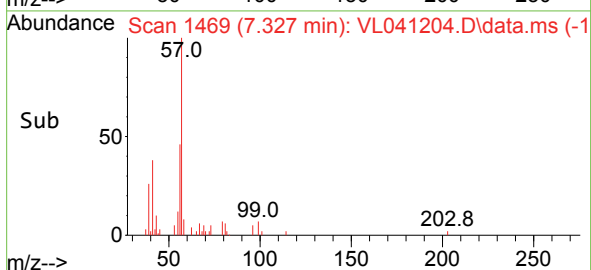
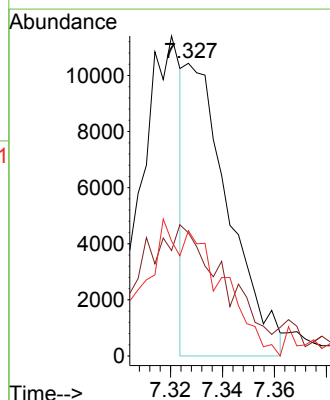
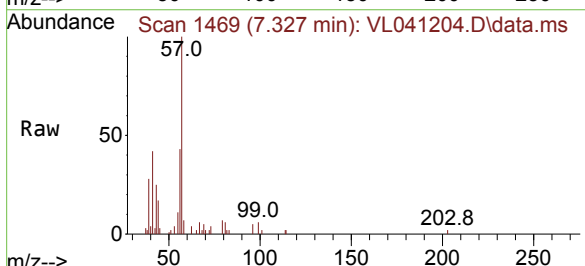
Tgt Ion: 57 Resp: 12106

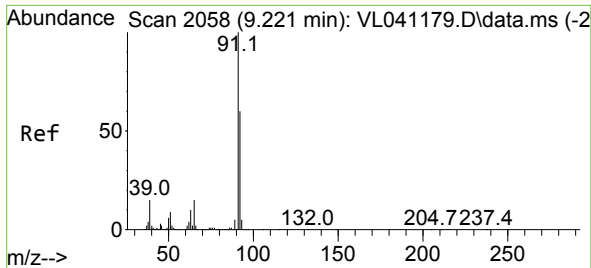
Ion Ratio Lower Upper

57 100

41 108.4 29.5 44.3#

56 0.0 25.3 37.9#





#53

Toluene

Concen: 0.409 ppbv

RT: 9.214 min Scan# 2058

Delta R.T. -0.006 min

Lab File: VL041204.D

Acq: 2 May 2024 20:43

Instrument :

MSVOA_L

ClientSampleId :

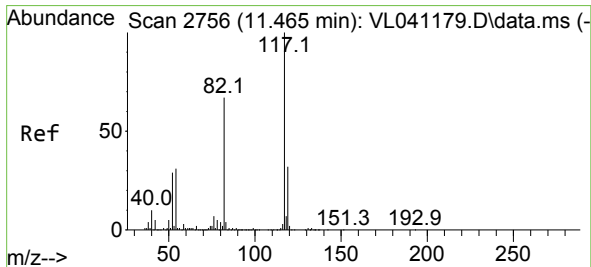
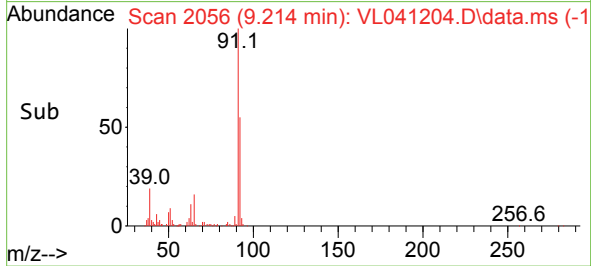
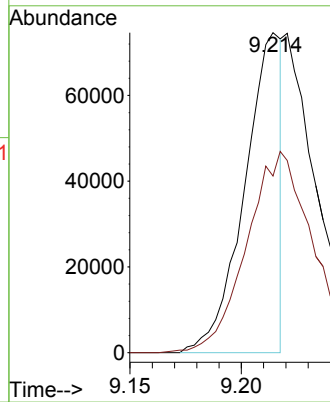
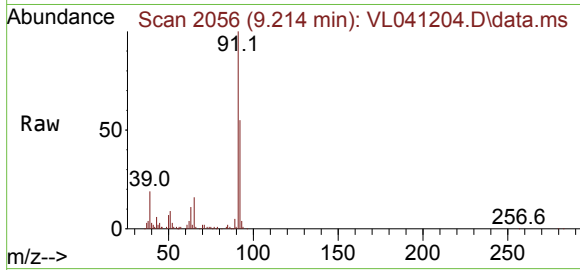
BA-20-IA03-20240425

Tgt Ion: 91 Resp: 86436

Ion Ratio Lower Upper

91 100

92 0.0 48.2 72.4#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.462 min Scan# 2755

Delta R.T. -0.003 min

Lab File: VL041204.D

Acq: 2 May 2024 20:43

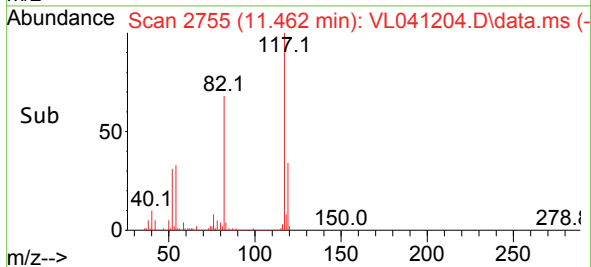
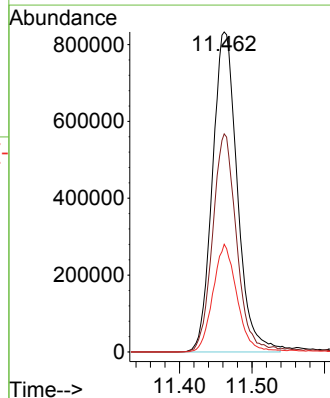
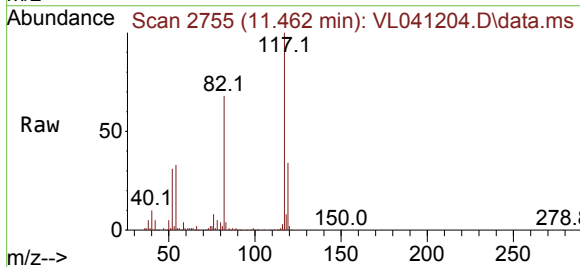
Tgt Ion: 117 Resp: 1983224

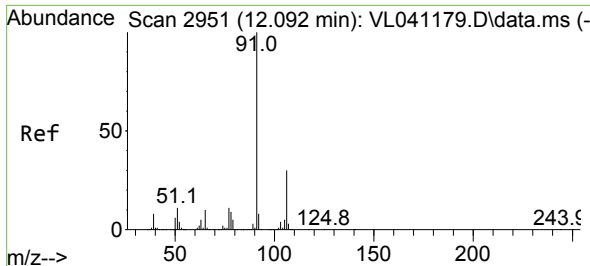
Ion Ratio Lower Upper

117 100

82 67.4 53.6 80.4

119 33.2 27.2 40.8

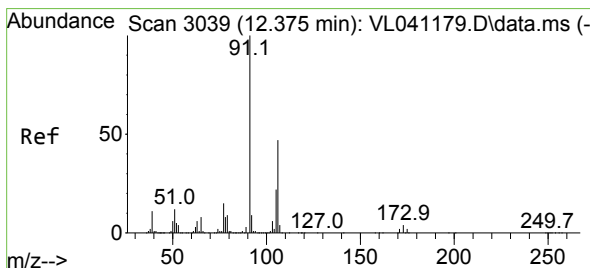
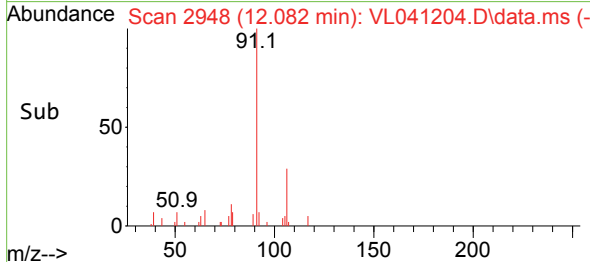
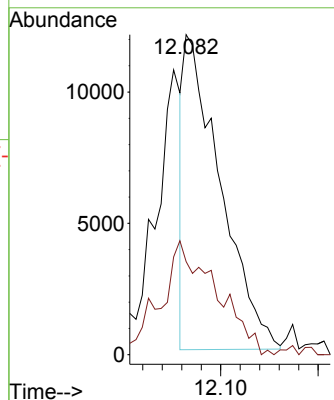
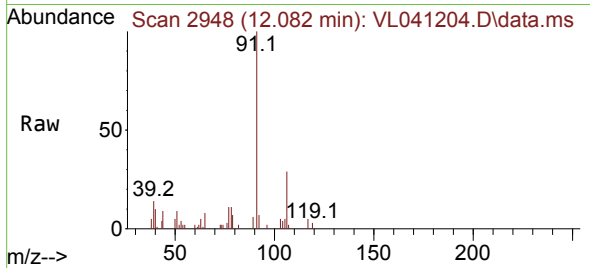




#58
Ethyl Benzene
Concen: 0.057 ppbv
RT: 12.082 min Scan# 2951
Delta R.T. -0.003 min
Lab File: VL041204.D
Acq: 2 May 2024 20:43

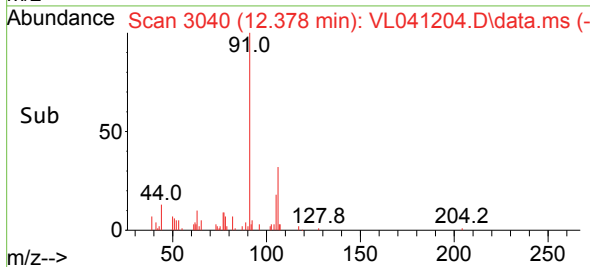
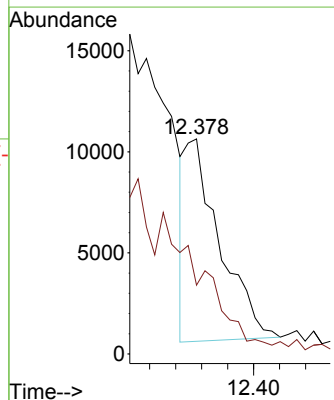
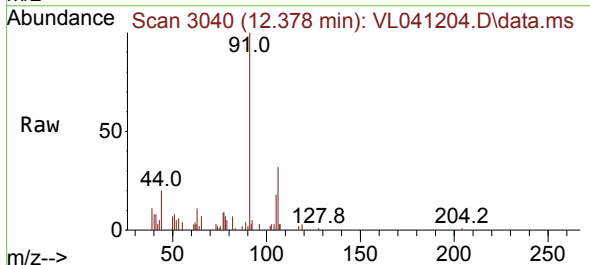
Instrument :
MSVOA_L
ClientSampleId :
BA-20-IA03-20240425

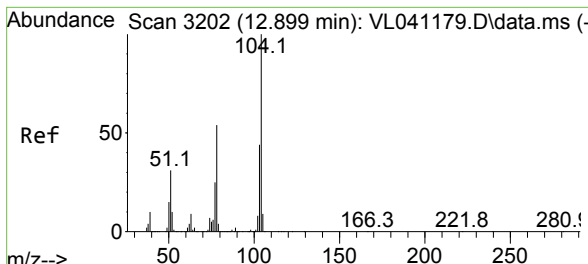
Tgt Ion: 91 Resp: 15540
Ion Ratio Lower Upper
91 100
106 28.4 24.3 36.5



#59
m/p-Xylene
Concen: 0.040 ppbv
RT: 12.378 min Scan# 3040
Delta R.T. 0.007 min
Lab File: VL041204.D
Acq: 2 May 2024 20:43

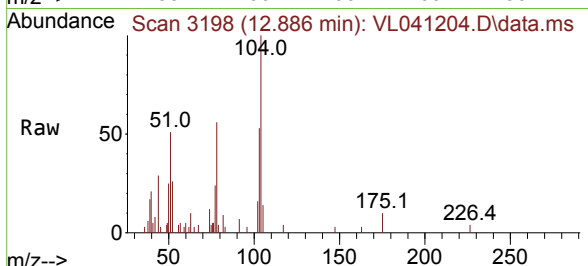
Tgt Ion: 91 Resp: 9214
Ion Ratio Lower Upper
91 100
106 0.0 35.7 53.5#



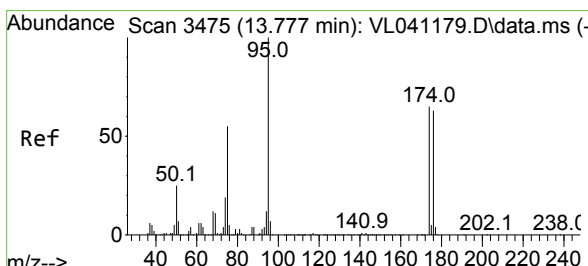
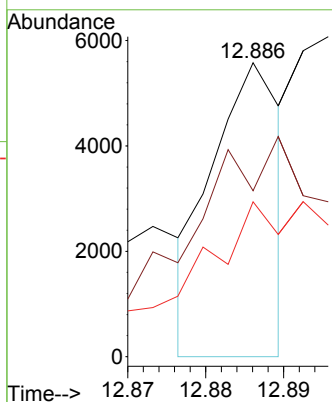
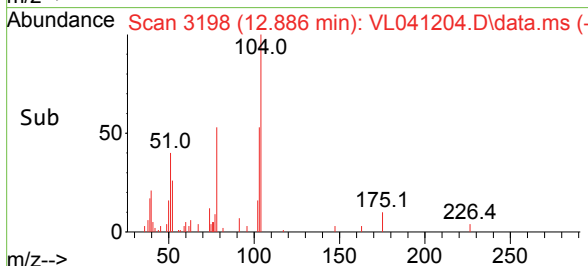


#61
 Styrene
 Concen: 0.031 ppbv
 RT: 12.886 min Scan# 3198
 Delta R.T. -0.010 min
 Lab File: VL041204.D
 Acq: 2 May 2024 20:43

Instrument :
 MSVOA_L
 ClientSampleId :
 BA-20-IA03-20240425

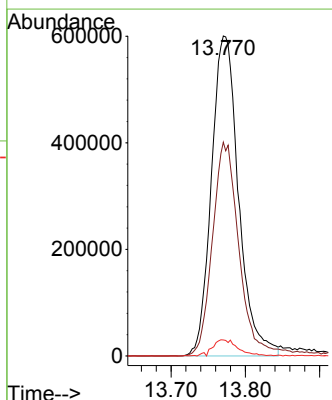
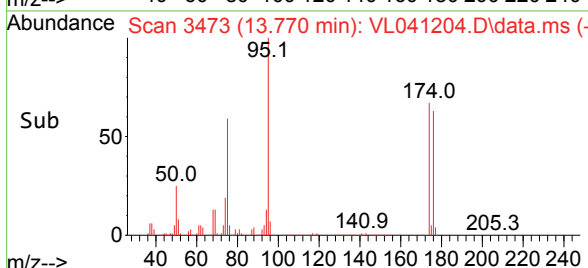
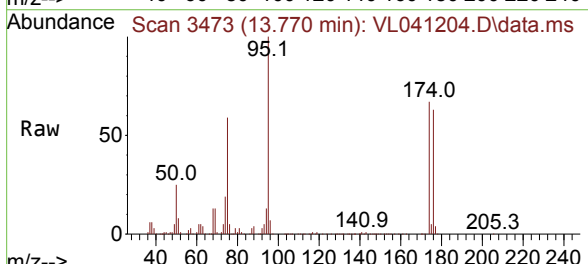


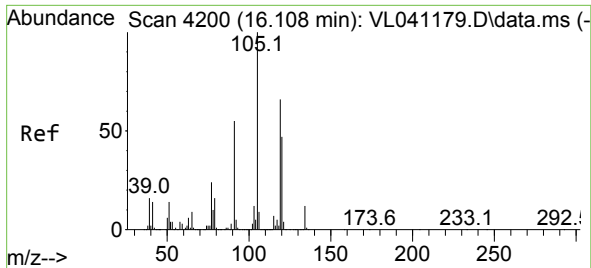
Tgt Ion: 104 Resp: 3458
 Ion Ratio Lower Upper
 104 100
 78 260.5 42.6 63.8#
 103 0.0 38.4 57.6#



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.210 ppbv
 RT: 13.770 min Scan# 3473
 Delta R.T. -0.003 min
 Lab File: VL041204.D
 Acq: 2 May 2024 20:43

Tgt Ion: 95 Resp: 1528678
 Ion Ratio Lower Upper
 95 100
 174 67.6 53.6 80.4
 175 4.9 4.2 6.4





#74

1,2,4-Trimethylbenzene

Concen: 0.034 ppbv

RT: 16.101 min Scan# 41

Delta R.T. -0.003 min

Lab File: VL041204.D

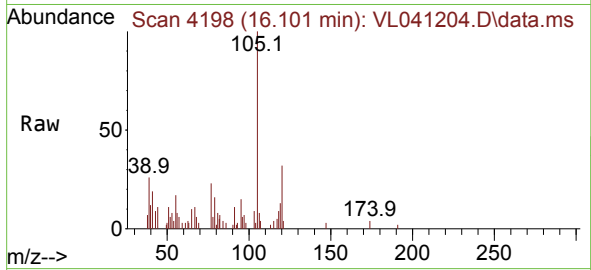
Acq: 2 May 2024 20:43

Instrument :

MSVOA_L

ClientSampleId :

BA-20-IA03-20240425



Tgt Ion:	105	Resp:	8076
Ion	Ratio	Lower	Upper
105	100		
120	26.3	37.8	56.6#
91	1.3	44.3	66.5#
77	15.8	19.0	28.4#

