

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111523\
 Data File : VL040878.D
 Acq On : 15 Nov 2023 21:28
 Operator : SY/MD
 Sample : 05278-02 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SH-SS-3

Quant Time: Nov 16 06:33:55 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111323AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Mon Nov 13 15:42:46 2023
 Response via : Initial Calibration

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

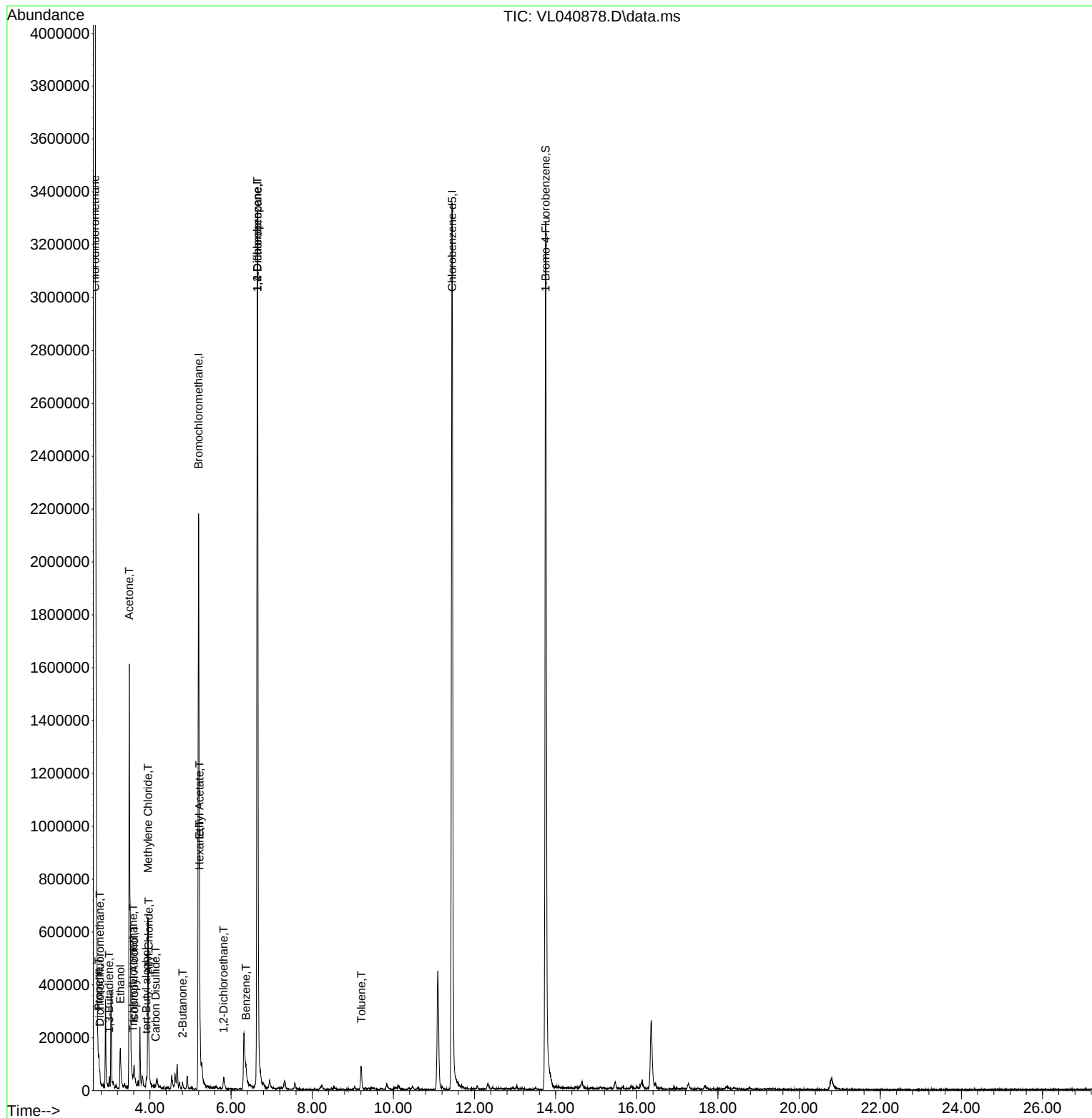
Internal Standards						
1) Bromochloromethane	5.198	49	1000706	10.000	ppbv	0.03
33) 1,4-Difluorobenzene	6.648	114	2442241	10.000	ppbv	0.02
55) Chlorobenzene-d5	11.449	117	2184189	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.754	95	1701844	9.952	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.500%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.764	85	23672	0.117	ppbv	99
3) Chlorodifluoromethane	2.652	51	19109	0.120	ppbv #	63
9) Propene	2.738	41	16164	0.300	ppbv #	80
11) Trichlorofluoromethane	3.587	101	7366	0.047	ppbv	89
13) Ethanol	3.272	45	172105	16.461	ppbv #	100
15) Acetone	3.491	43	1713175	16.074	ppbv	97
16) 1,3-Butadiene	2.996	39	9247	0.171	ppbv #	11
17) tert-Butyl alcohol	3.912	59	17669	0.194	ppbv #	71
19) Isopropyl Alcohol	3.613	45	74344	1.159	ppbv #	94
20) Methylene Chloride	3.951	84	197291	4.486	ppbv	97
21) Allyl Chloride	3.967	41	2645	0.039	ppbv #	1
25) Ethyl Acetate	5.221	43	92773	0.420	ppbv #	78
26) Hexane	5.224	57	126560	1.296	ppbv #	40
27) Carbon Disulfide	4.144	76	5639	0.046	ppbv #	61
34) 2-Butanone	4.806	43	27861	0.224	ppbv	98
36) Benzene	6.369	78	33862	0.171	ppbv #	90
37) 1,2-Dichloroethane	5.816	62	3909	0.033	ppbv #	95
39) 1,2-Dichloropropane	6.648	63	630774	8.026	ppbv #	23
53) Toluene	9.211	91	27167	0.125	ppbv #	20

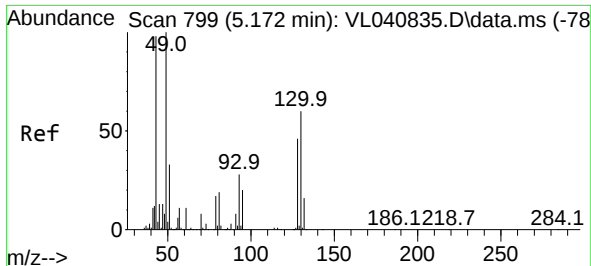
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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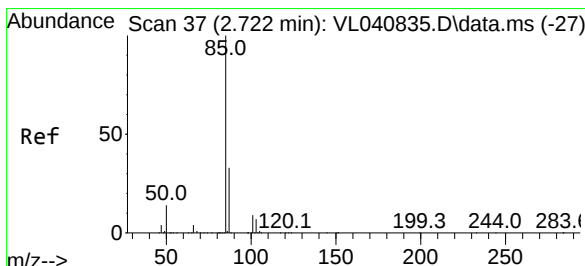
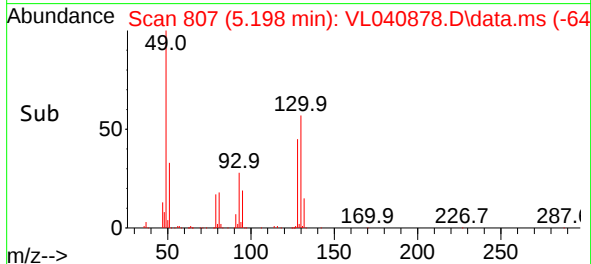
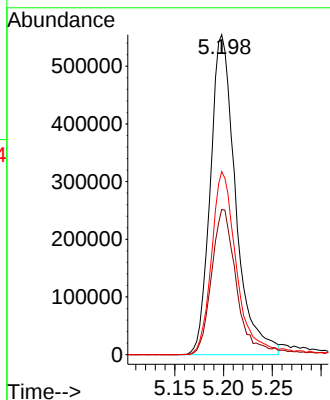
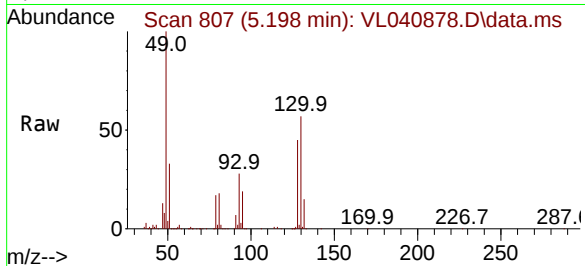




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.198 min Scan# 80
 Delta R.T. 0.026 min
 Lab File: VL040878.D
 Acq: 15 Nov 2023 21:28

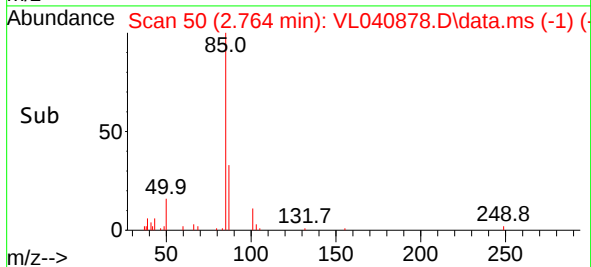
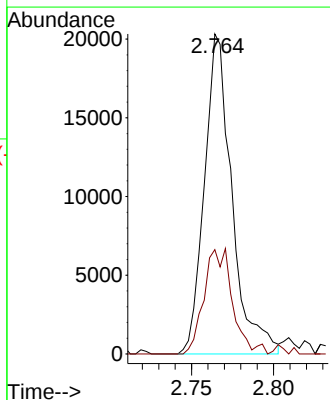
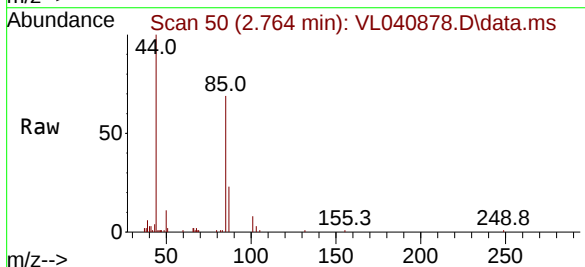
Instrument :
 MSVOA_L
 ClientSampleId :
 SH-SS-3

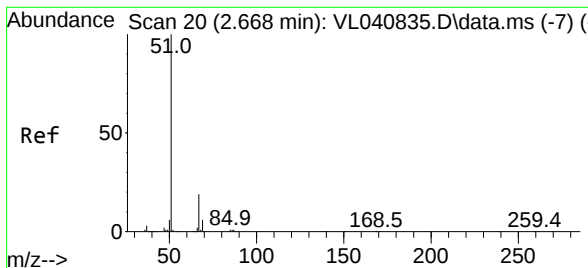
Tgt Ion: 49 Resp: 1000706
 Ion Ratio Lower Upper
 49 100
 128 46.3 23.8 71.2
 130 58.5 30.9 92.8



#2
 Dichlorodifluoromethane
 Concen: 0.117 ppbv
 RT: 2.764 min Scan# 50
 Delta R.T. 0.042 min
 Lab File: VL040878.D
 Acq: 15 Nov 2023 21:28

Tgt Ion: 85 Resp: 23672
 Ion Ratio Lower Upper
 85 100
 87 32.6 26.7 40.1





#3

Chlorodifluoromethane

Concen: 0.120 ppbv

RT: 2.652 min Scan# 11

Delta R.T. -0.016 min

Lab File: VL040878.D

Acq: 15 Nov 2023 21:28

Instrument :

MSVOA_L

ClientSampleId :

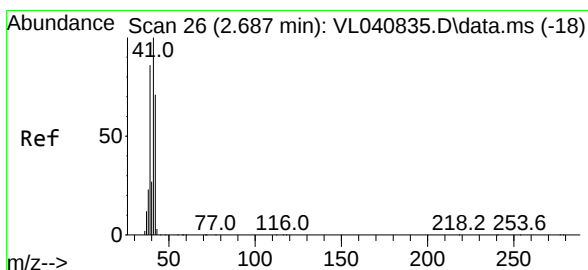
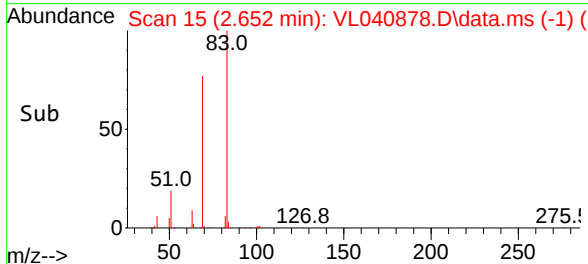
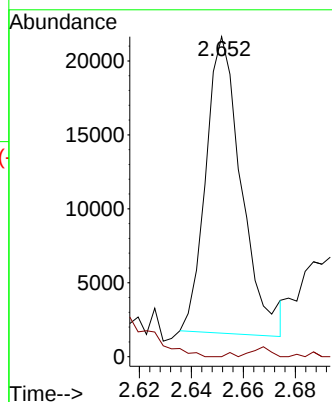
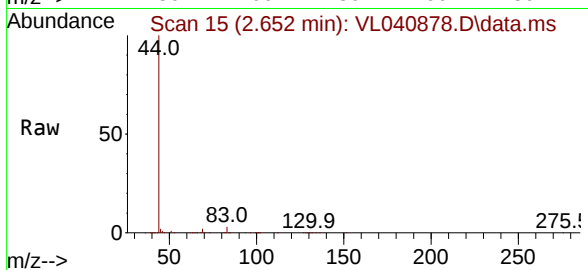
SH-SS-3

Tgt Ion: 51 Resp: 19109

Ion Ratio Lower Upper

51 100

67 2.1 15.0 22.4#



#9

Propene

Concen: 0.300 ppbv

RT: 2.738 min Scan# 42

Delta R.T. 0.051 min

Lab File: VL040878.D

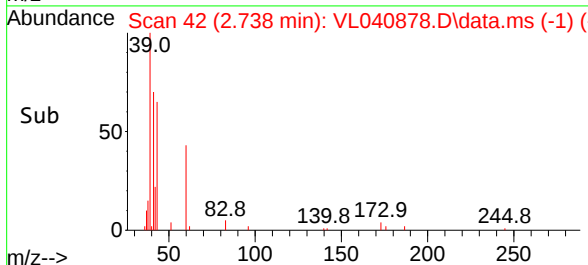
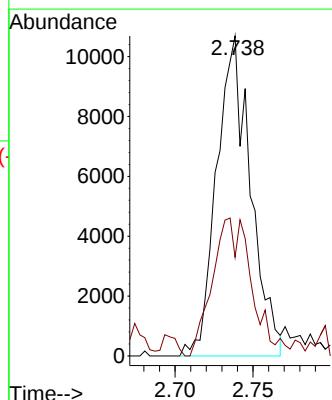
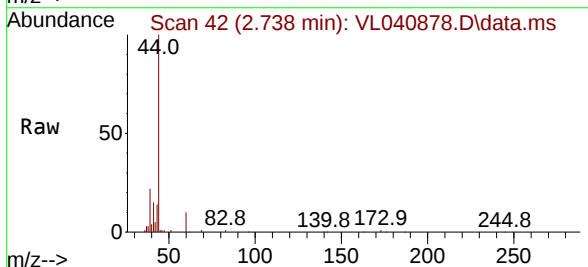
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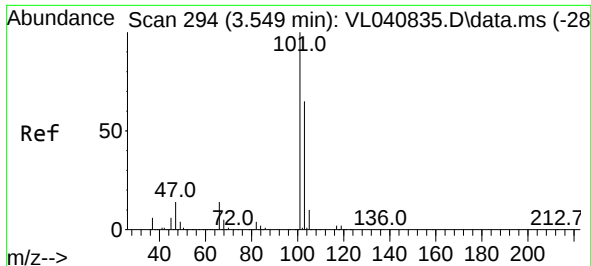
Tgt Ion: 41 Resp: 16164

Ion Ratio Lower Upper

41 100

42 54.3 56.5 84.7#

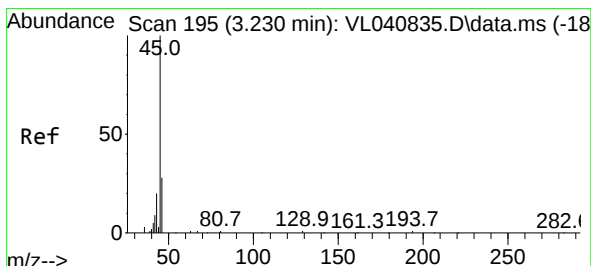
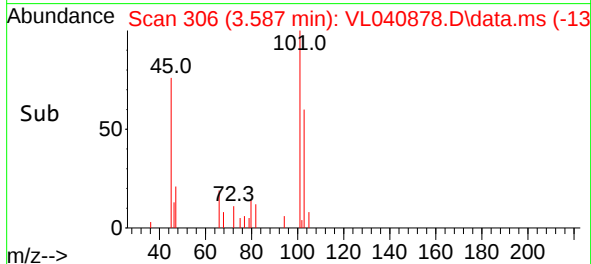
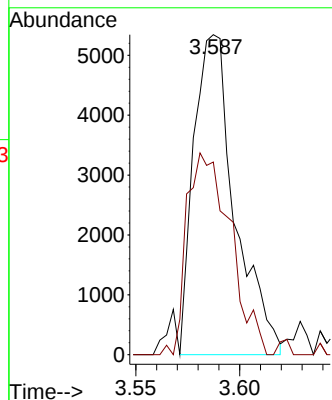
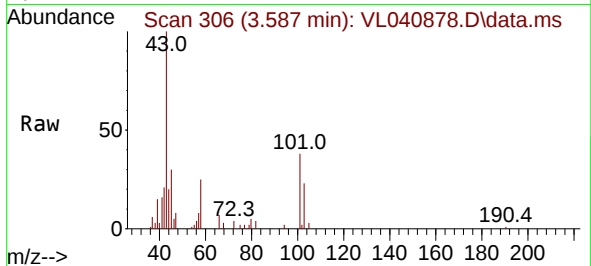




#11
 Trichlorofluoromethane
 Concen: 0.047 ppbv
 RT: 3.587 min Scan# 306
 Delta R.T. 0.039 min
 Lab File: VL040878.D
 Acq: 15 Nov 2023 21:28

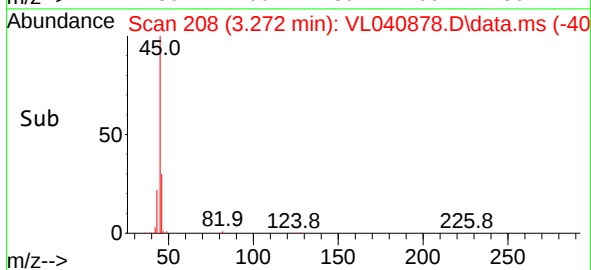
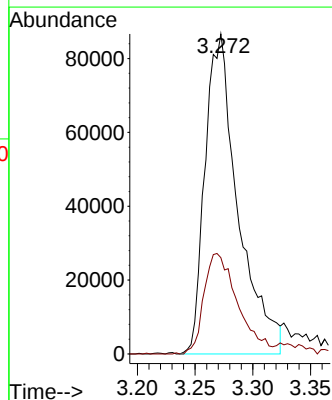
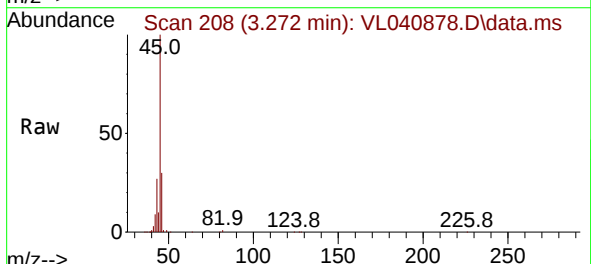
Instrument :
 MSVOA_L
 ClientSampleId :
 SH-SS-3

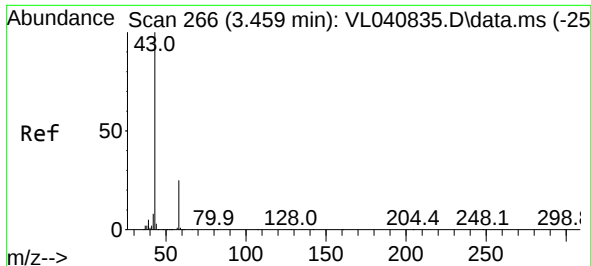
Tgt Ion:101 Resp: 7366
 Ion Ratio Lower Upper
 101 100
 103 56.2 51.8 77.8



#13
 Ethanol
 Concen: 16.461 ppbv
 RT: 3.272 min Scan# 208
 Delta R.T. 0.042 min
 Lab File: VL040878.D
 Acq: 15 Nov 2023 21:28

Tgt Ion: 45 Resp: 172105
 Ion Ratio Lower Upper
 45 100
 46 36.3 0.0 0.0#

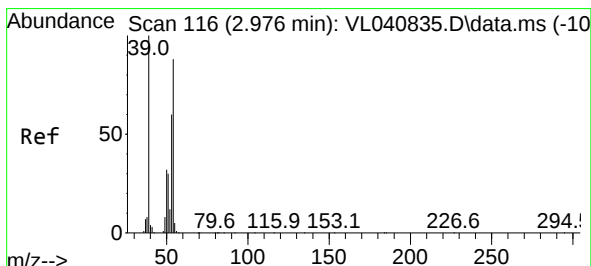
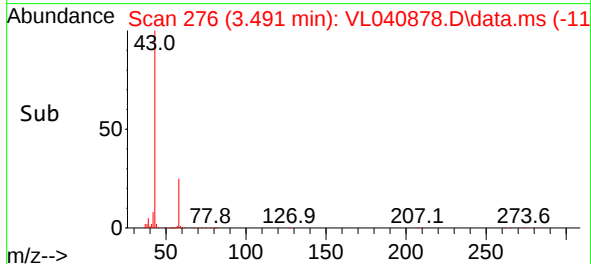
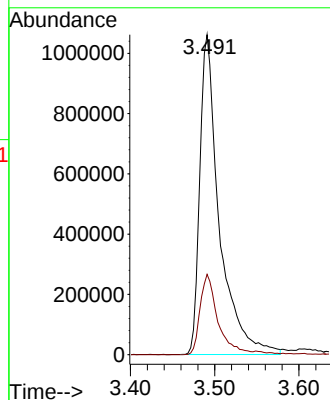
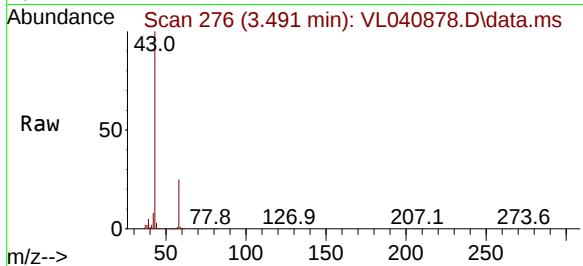




#15
Acetone
Concen: 16.074 ppbv
RT: 3.491 min Scan# 21
Delta R.T. 0.032 min
Lab File: VL040878.D
Acq: 15 Nov 2023 21:28

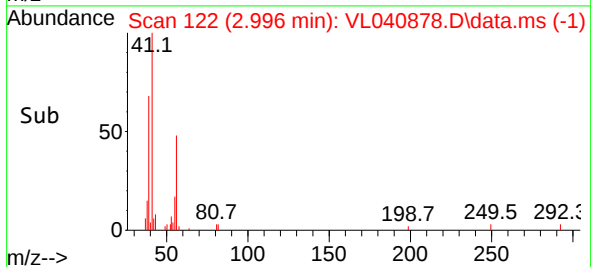
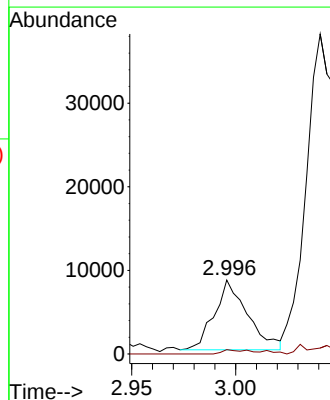
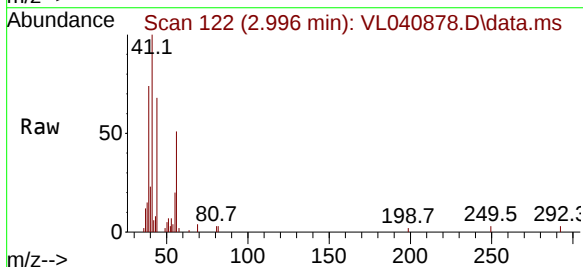
Instrument :
MSVOA_L
ClientSampleId :
SH-SS-3

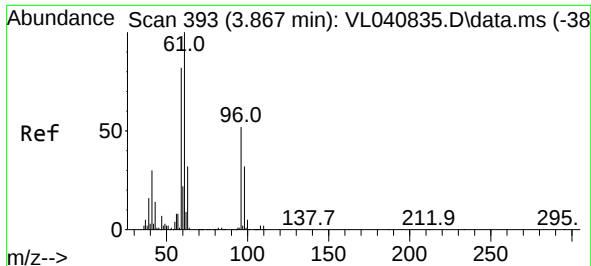
Tgt Ion: 43 Resp: 1713175
Ion Ratio Lower Upper
43 100
58 24.4 20.9 31.3



#16
1,3-Butadiene
Concen: 0.171 ppbv
RT: 2.996 min Scan# 122
Delta R.T. 0.019 min
Lab File: VL040878.D
Acq: 15 Nov 2023 21:28

Tgt Ion: 39 Resp: 9247
Ion Ratio Lower Upper
39 100
54 0.0 61.8 92.6#





#17

tert-Butyl alcohol

Concen: 0.194 ppbv

RT: 3.912 min Scan# 407

Delta R.T. 0.045 min

Lab File: VL040878.D

Acq: 15 Nov 2023 21:28

Instrument :

MSVOA_1

ClientSampleId :

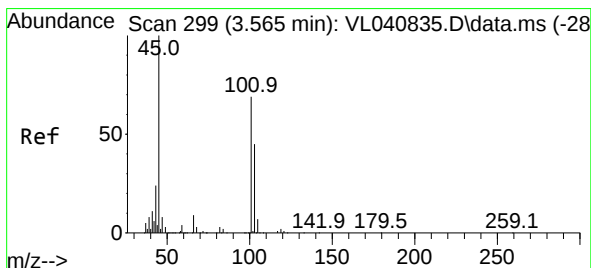
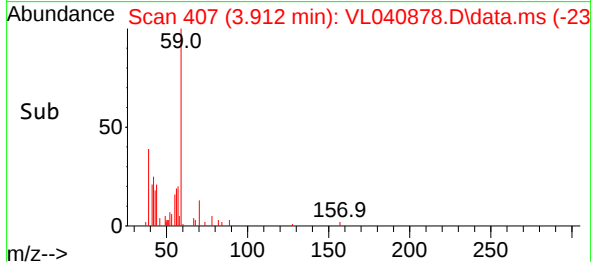
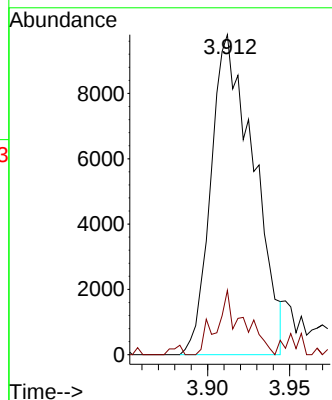
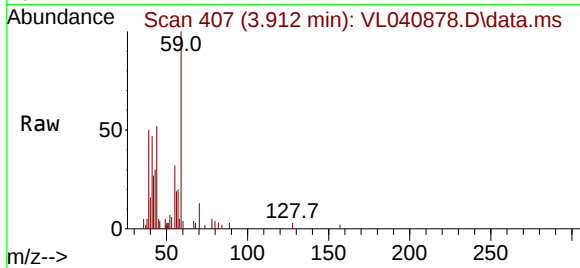
SH-SS-3

Tgt Ion: 59 Resp: 17669

Ion Ratio Lower Upper

59 100

57 0.0 9.0 13.4#



#19

Isopropyl Alcohol

Concen: 1.159 ppbv

RT: 3.613 min Scan# 314

Delta R.T. 0.048 min

Lab File: VL040878.D

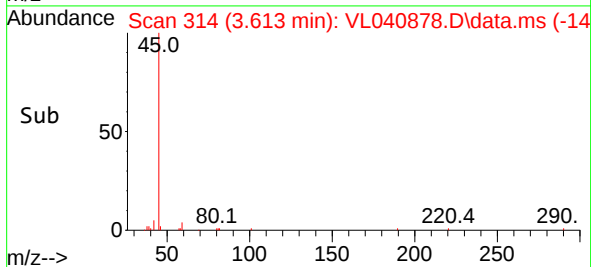
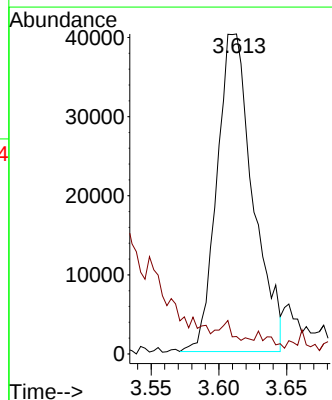
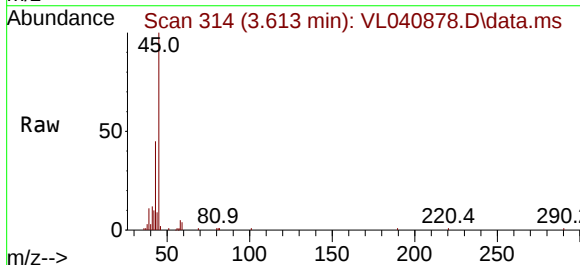
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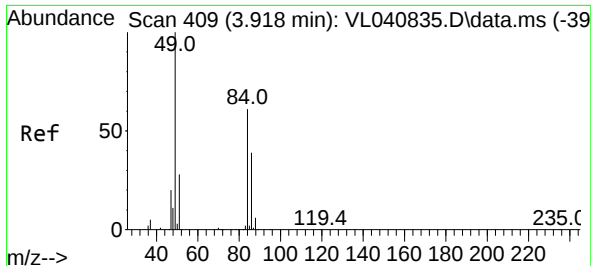
Tgt Ion: 45 Resp: 74344

Ion Ratio Lower Upper

45 100

58 0.0 1.6 2.4#



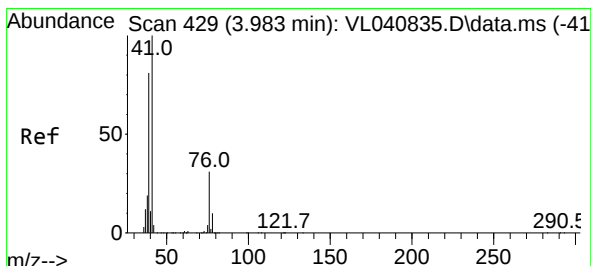
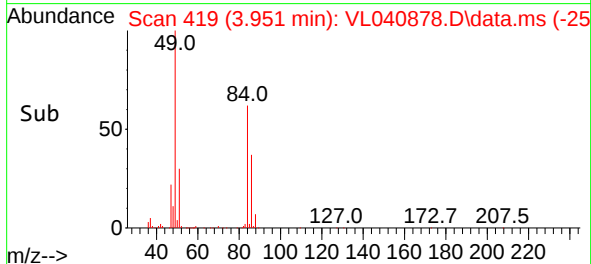
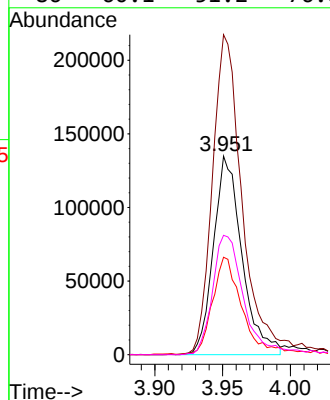
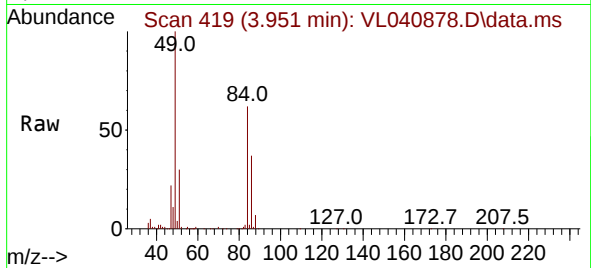


#20
Methylene Chloride
Concen: 4.486 ppbv
RT: 3.951 min Scan# 419
Delta R.T. 0.032 min
Lab File: VL040878.D
Acq: 15 Nov 2023 21:28

Instrument :
MSVOA_L
ClientSampleId :
SH-SS-3

Tgt Ion: 84 Resp: 197291

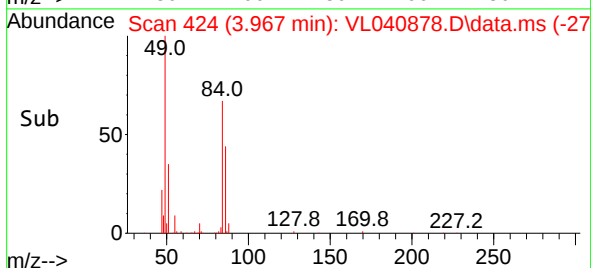
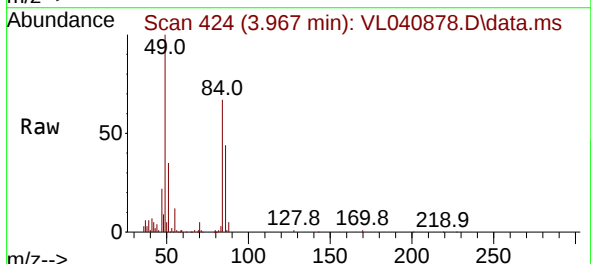
Ion	Ratio	Lower	Upper
84	100		
49	160.8	131.0	196.4
51	48.9	36.9	55.3
86	60.1	51.2	76.8

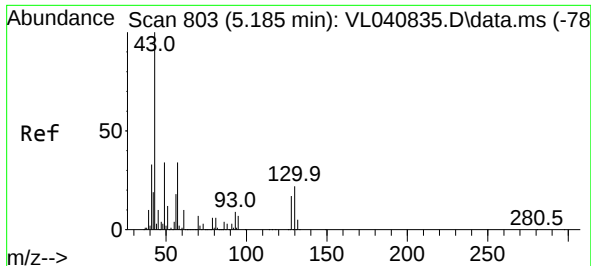


#21
Allyl Chloride
Concen: 0.039 ppbv
RT: 3.967 min Scan# 424
Delta R.T. -0.016 min
Lab File: VL040878.D
Acq: 15 Nov 2023 21:28

Tgt Ion: 41 Resp: 2645

Ion	Ratio	Lower	Upper
41	100		
76	0.0	24.4	36.6#
39	413.8	68.1	102.1#

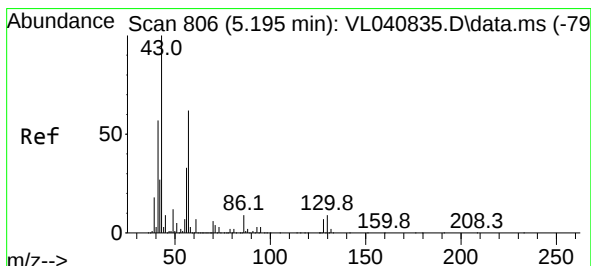
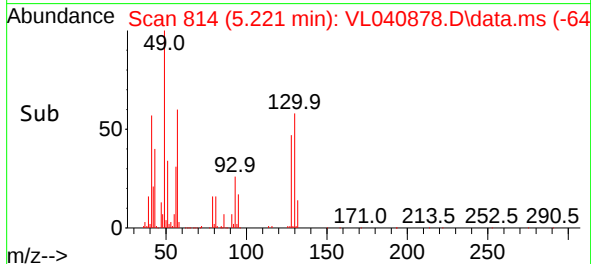
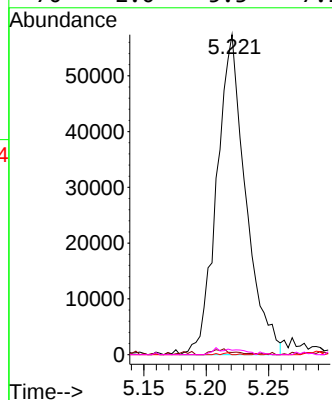
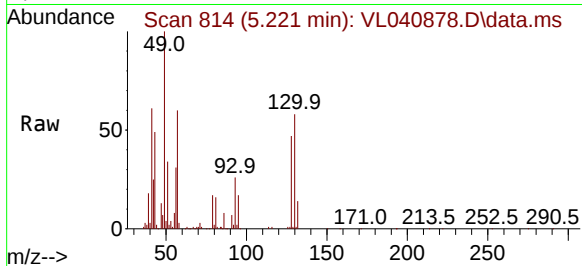




#25
Ethyl Acetate
Concen: 0.420 ppbv
RT: 5.221 min Scan# 814
Delta R.T. 0.035 min
Lab File: VL040878.D
Acq: 15 Nov 2023 21:28

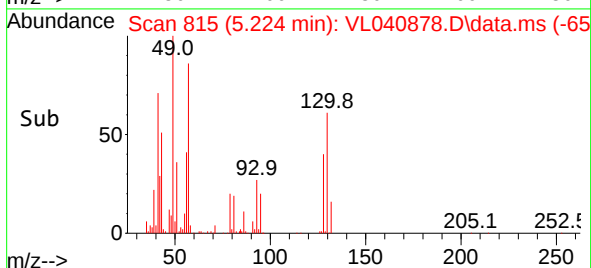
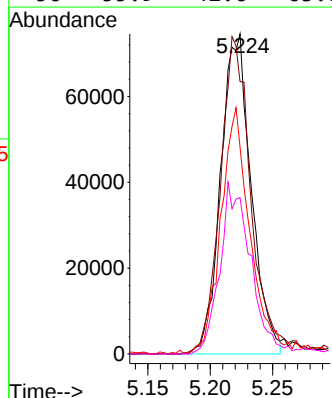
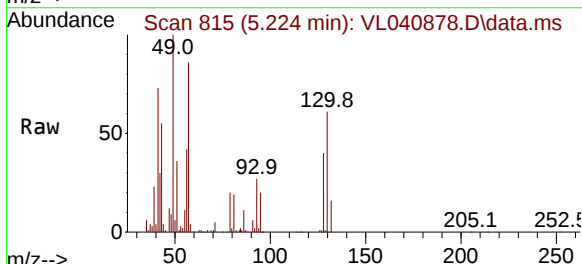
Instrument :
MSVOA_L
ClientSampleId :
SH-SS-3

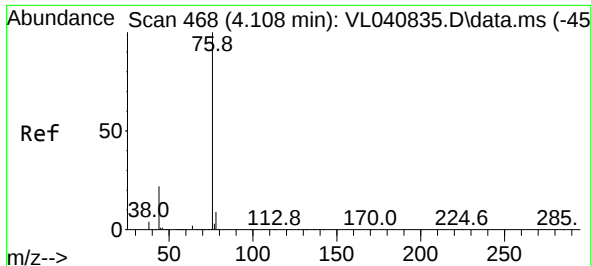
Tgt Ion: 43 Resp: 92773
Ion Ratio Lower Upper
43 100
45 1.8 8.1 12.1#
61 0.1 7.8 11.6#
70 2.0 5.3 7.9#



#26
Hexane
Concen: 1.296 ppbv
RT: 5.224 min Scan# 815
Delta R.T. 0.029 min
Lab File: VL040878.D
Acq: 15 Nov 2023 21:28

Tgt Ion: 57 Resp: 126560
Ion Ratio Lower Upper
57 100
41 103.8 75.4 113.0
43 77.8 185.9 278.9#
56 55.9 42.6 63.8

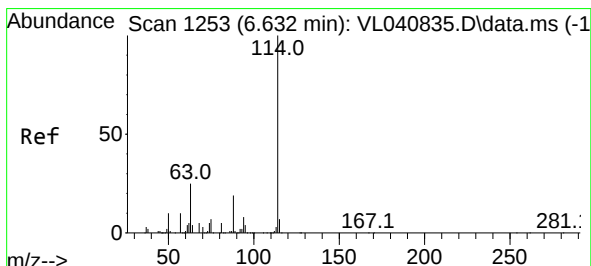
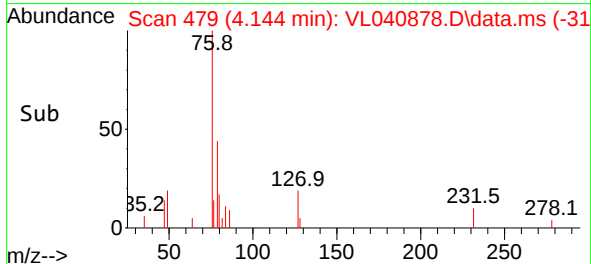
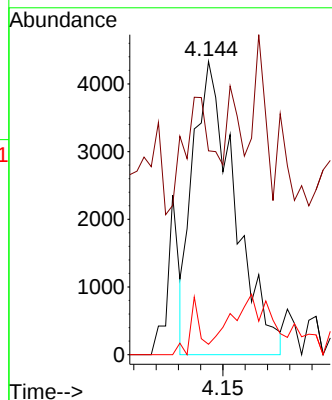
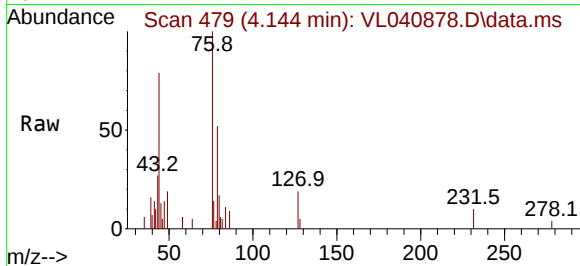




#27
Carbon Disulfide
Concen: 0.046 ppbv
RT: 4.144 min Scan# 41
Delta R.T. 0.035 min
Lab File: VL040878.D
Acq: 15 Nov 2023 21:28

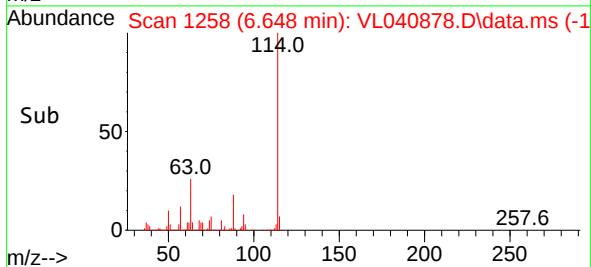
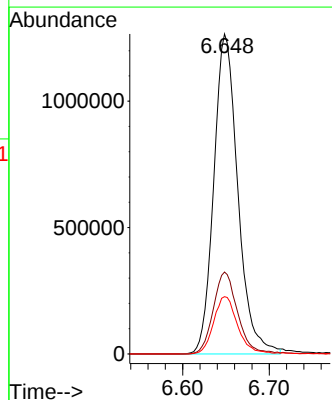
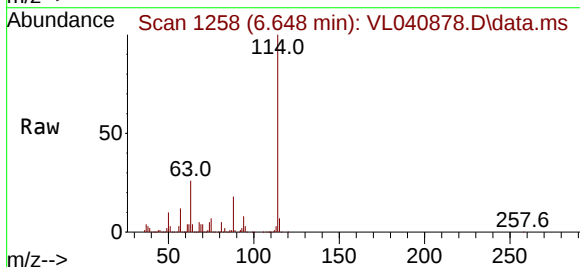
Instrument :
MSVOA_1
ClientSampleId :
SH-SS-3

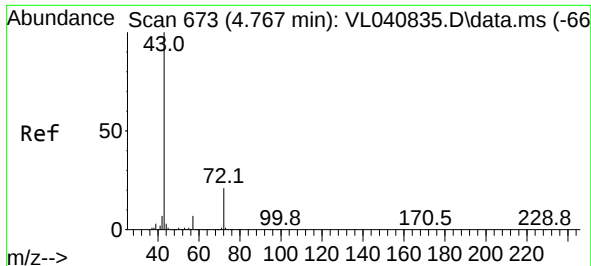
Tgt Ion: 76 Resp: 5639
Ion Ratio Lower Upper
76 100
44 0.0 16.7 25.1#
78 0.0 7.6 11.4#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.648 min Scan# 1258
Delta R.T. 0.016 min
Lab File: VL040878.D
Acq: 15 Nov 2023 21:28

Tgt Ion: 114 Resp: 2442241
Ion Ratio Lower Upper
114 100
63 26.2 20.9 31.3
88 18.2 14.3 21.5

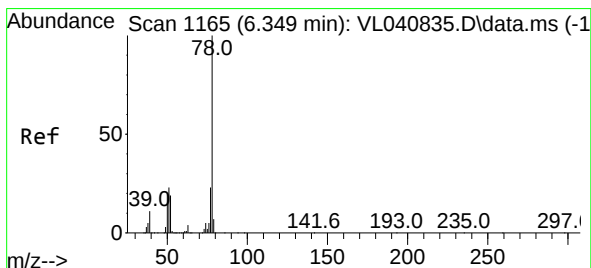
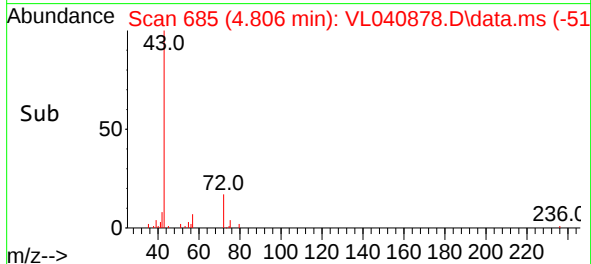
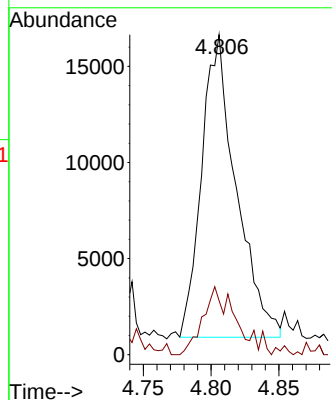
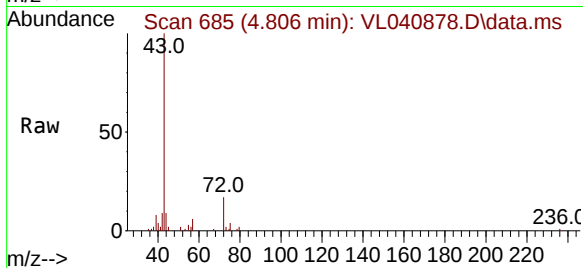




#34
2-Butanone
Concen: 0.224 ppbv
RT: 4.806 min Scan# 61
Delta R.T. 0.039 min
Lab File: VL040878.D
Acq: 15 Nov 2023 21:28

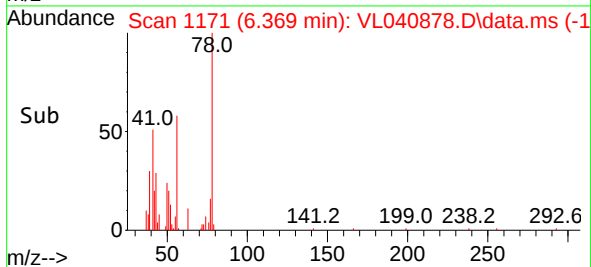
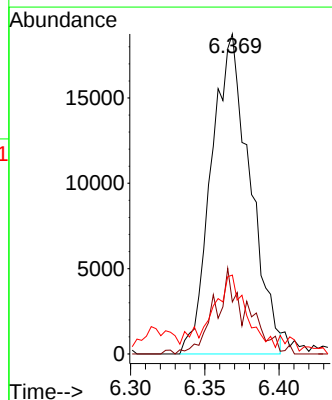
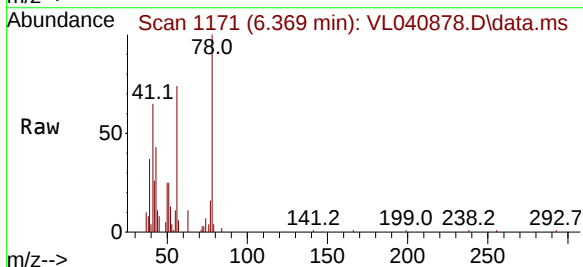
Instrument :
MSVOA_L
ClientSampleId :
SH-SS-3

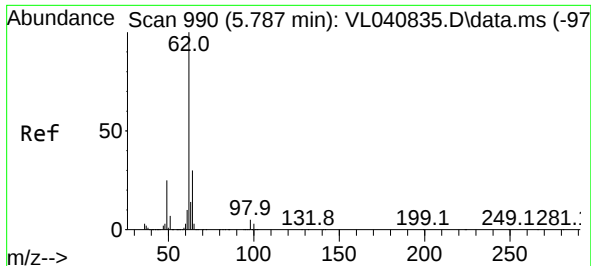
Tgt Ion: 43 Resp: 27861
Ion Ratio Lower Upper
43 100
72 22.5 17.2 25.8



#36
Benzene
Concen: 0.171 ppbv
RT: 6.369 min Scan# 1171
Delta R.T. 0.019 min
Lab File: VL040878.D
Acq: 15 Nov 2023 21:28

Tgt Ion: 78 Resp: 33862
Ion Ratio Lower Upper
78 100
77 15.4 18.4 27.6#
50 21.6 16.2 24.2





#37

1,2-Dichloroethane

Concen: 0.033 ppbv

RT: 5.816 min Scan# 91

Delta R.T. 0.029 min

Lab File: VL040878.D

Acq: 15 Nov 2023 21:28

Instrument :

MSVOA_L

ClientSampleId :

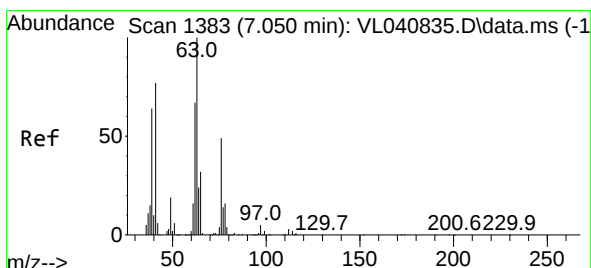
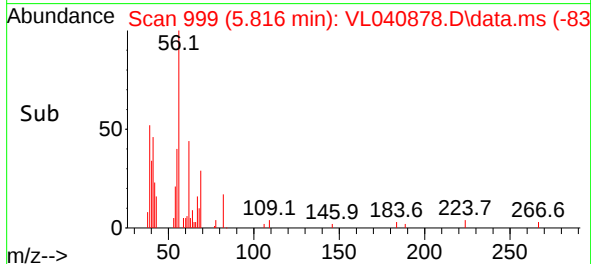
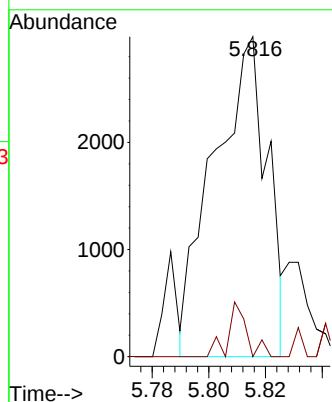
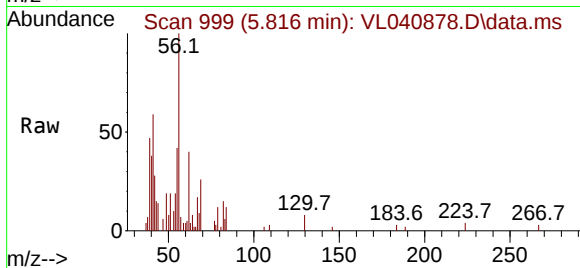
SH-SS-3

Tgt Ion: 62 Resp: 3909

Ion Ratio Lower Upper

62 100

98 7.3 4.6 6.8#



#39

1,2-Dichloropropane

Concen: 8.026 ppbv

RT: 6.648 min Scan# 1258

Delta R.T. -0.402 min

Lab File: VL040878.D

Acq: 15 Nov 2023 21:28

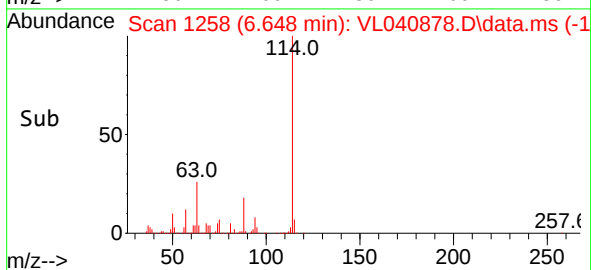
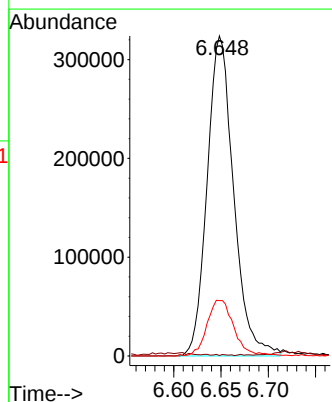
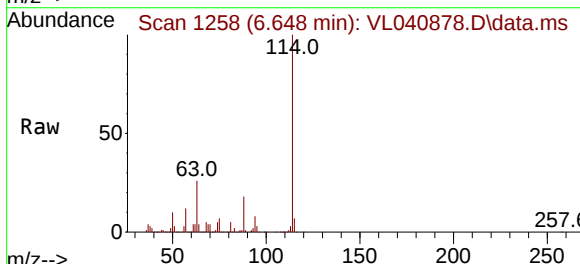
Tgt Ion: 63 Resp: 630774

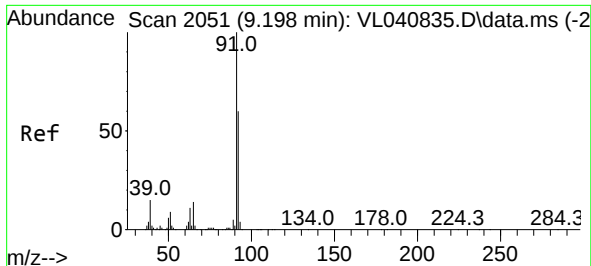
Ion Ratio Lower Upper

63 100

41 0.0 61.5 92.3#

62 17.1 53.9 80.9#

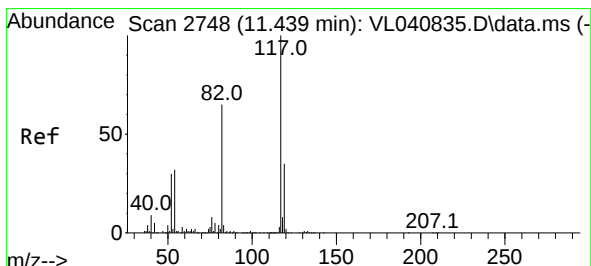
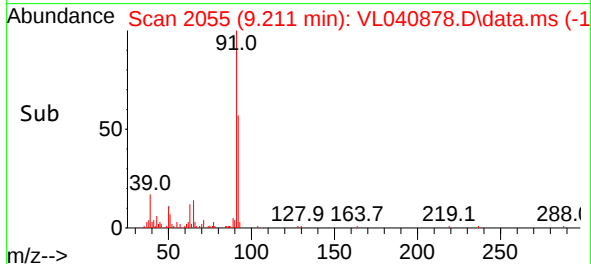
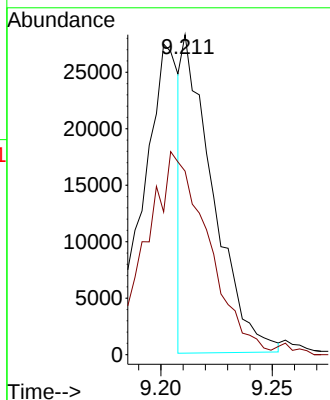
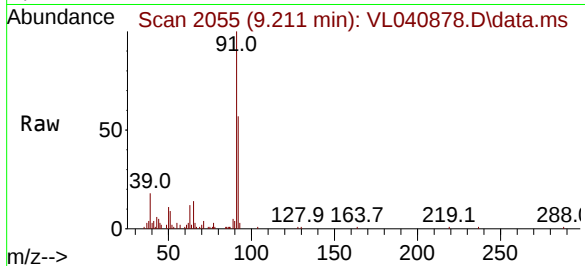




#53
Toluene
Concen: 0.125 ppbv
RT: 9.211 min Scan# 2055
Delta R.T. 0.013 min
Lab File: VL040878.D
Acq: 15 Nov 2023 21:28

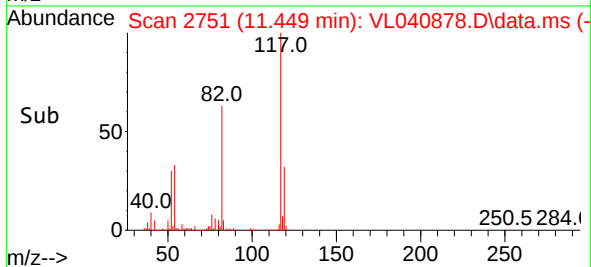
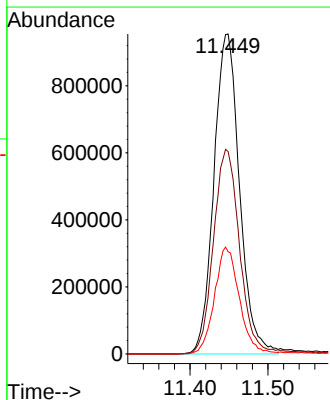
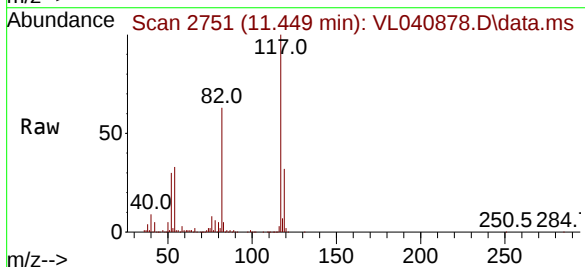
Instrument :
MSVOA_L
ClientSampleId :
SH-SS-3

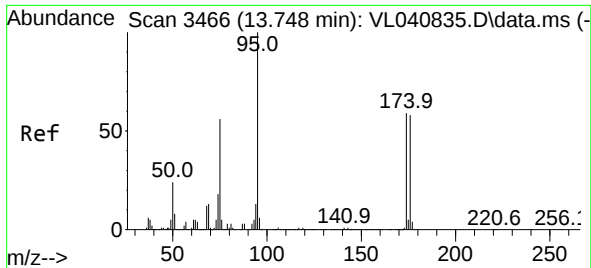
Tgt Ion: 91 Resp: 27167
Ion Ratio Lower Upper
91 100
92 0.0 49.4 74.2#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.449 min Scan# 2751
Delta R.T. 0.010 min
Lab File: VL040878.D
Acq: 15 Nov 2023 21:28

Tgt Ion: 117 Resp: 2184189
Ion Ratio Lower Upper
117 100
82 66.6 50.6 75.8
119 32.8 23.3 34.9





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.952 ppbv
 RT: 13.754 min Scan# 34
 Delta R.T. 0.006 min
 Lab File: VL040878.D
 Acq: 15 Nov 2023 21:28

Instrument :
 MSVOA_L
 ClientSampleId :
 SH-SS-3

Tgt Ion: 95 Resp: 1701844
 Ion Ratio Lower Upper
 95 100
 174 60.6 47.5 71.3
 175 4.4 3.6 5.4

