

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111723\
 Data File : VL040897.D
 Acq On : 17 Nov 2023 16:24
 Operator : SY/MD
 Sample : 05474-02 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VP-2

Quant Time: Nov 20 03:59:39 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 20 03:50:24 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.211	49	906196	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.668	114	2145163	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.474	117	1949062	10.000	ppbv	0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.783	95	1625860	10.655	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.500%

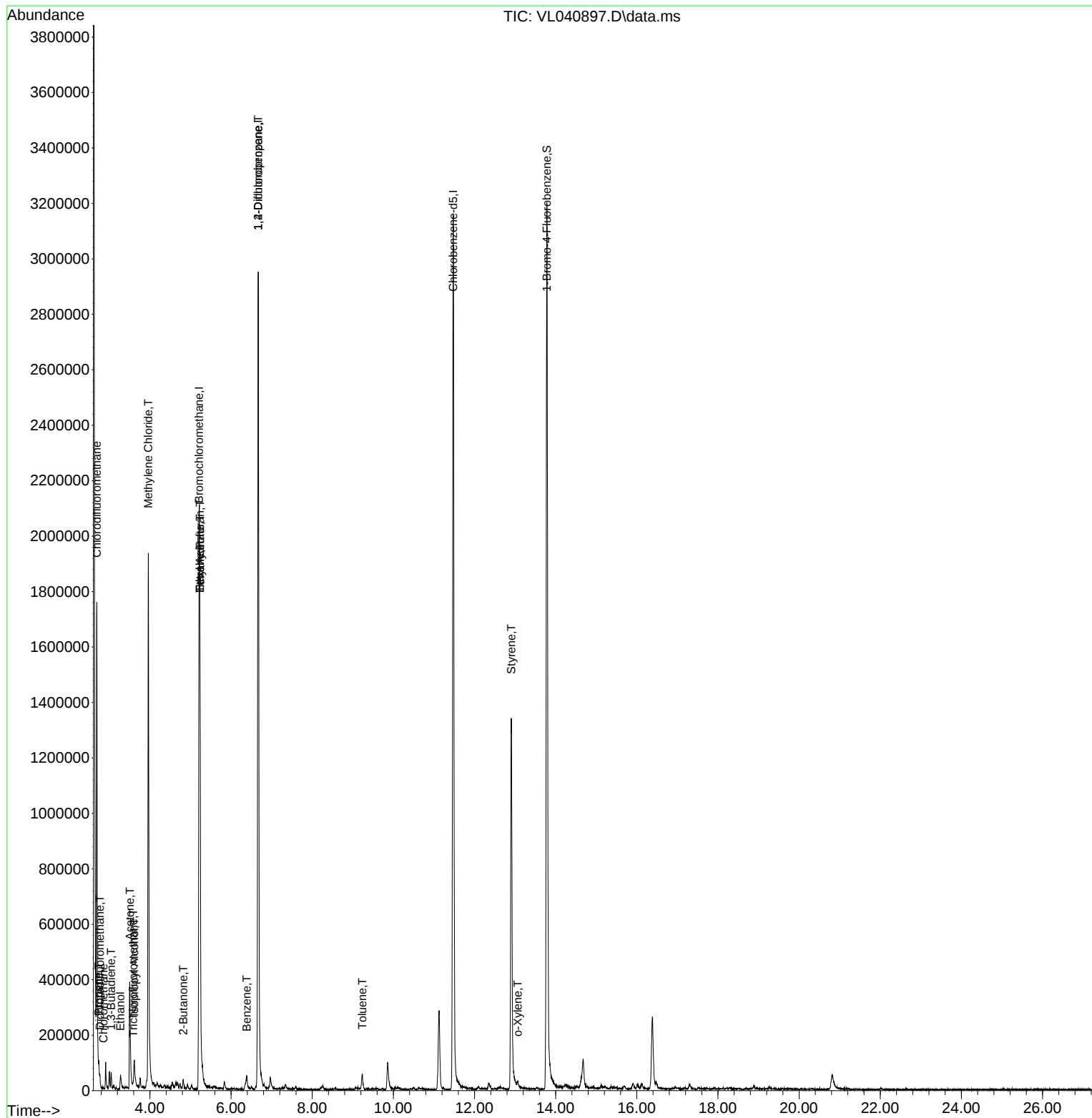
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.767	85	22757	0.124	ppbv #	88
3) Chlorodifluoromethane	2.690	51	970930	6.711	ppbv #	59
4) Chloromethane	2.854	50	2590	0.050	ppbv #	61
9) Propene	2.735	41	7887	0.162	ppbv #	75
11) Trichlorofluoromethane	3.591	101	8463	0.060	ppbv	98
13) Ethanol	3.275	45	49330	5.210	ppbv #	100
15) Acetone	3.504	43	396957	4.113	ppbv	95
16) 1,3-Butadiene	3.041	39	6439	0.132	ppbv #	11
19) Isopropyl Alcohol	3.613	45	92284	1.589	ppbv #	86
20) Methylene Chloride	3.960	84	620508	15.579	ppbv	98
25) Ethyl Acetate	5.234	43	316832	1.585	ppbv #	78
26) Hexane	5.234	57	434420	4.912	ppbv #	41
34) 2-Butanone	4.822	43	37695	0.345	ppbv	98
36) Benzene	6.385	78	18882	0.108	ppbv	96
39) 1,2-Dichloropropane	6.668	63	566554	8.207	ppbv #	24
41) Tetrahydrofuran	5.234	42	173914	2.585	ppbv #	49
53) Toluene	9.233	91	31633	0.165	ppbv	89
60) o-Xylene	13.066	91	6834	0.033	ppbv #	30
61) Styrene	12.905	104	783558	7.881	ppbv	97

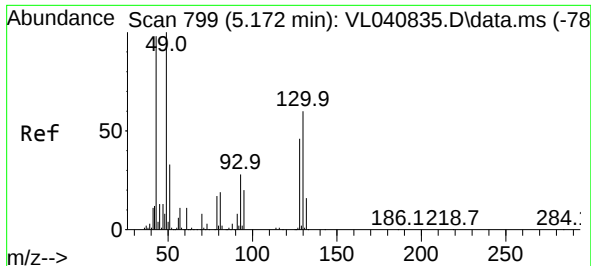
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111723\
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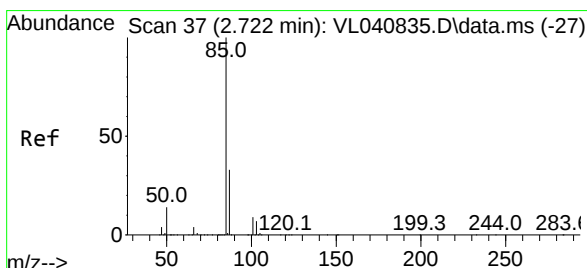
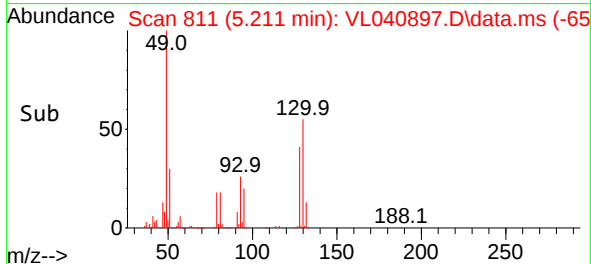
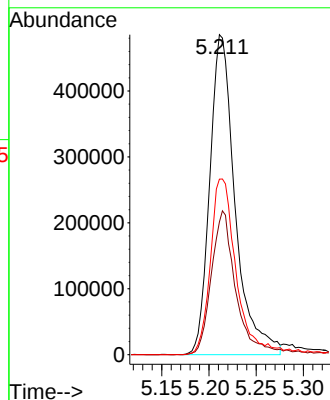
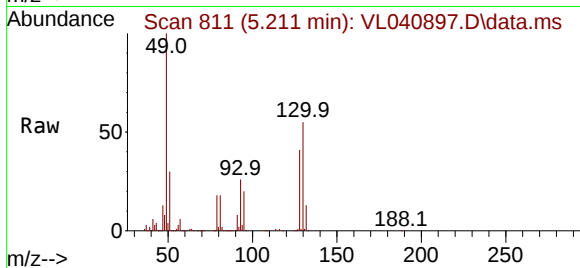




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.211 min Scan# 81
Delta R.T. 0.000 min
Lab File: VL040897.D
Acq: 17 Nov 2023 16:24

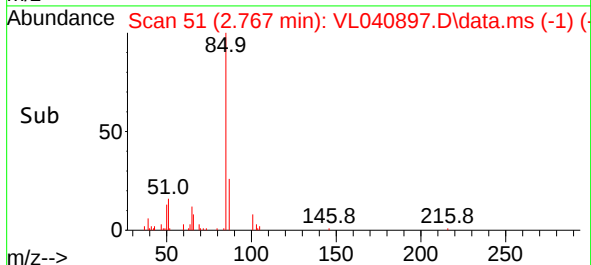
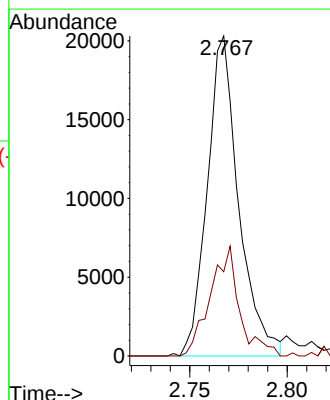
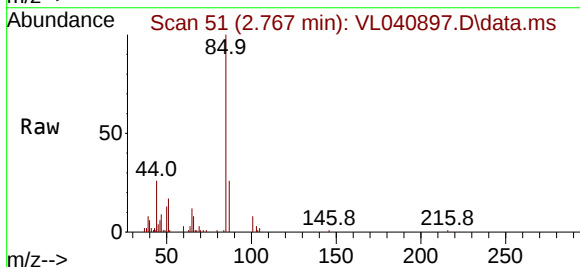
Instrument :
MSVOA_L
ClientSampleId :
VP-2

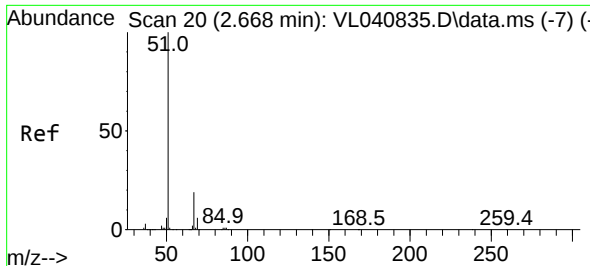
Tgt Ion: 49 Resp: 906196
Ion Ratio Lower Upper
49 100
128 45.1 23.8 71.2
130 58.6 30.9 92.8



#2
Dichlorodifluoromethane
Concen: 0.124 ppbv
RT: 2.767 min Scan# 51
Delta R.T. -0.007 min
Lab File: VL040897.D
Acq: 17 Nov 2023 16:24

Tgt Ion: 85 Resp: 22757
Ion Ratio Lower Upper
85 100
87 26.3 26.7 40.1#

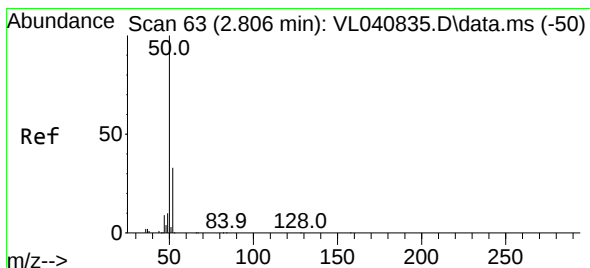
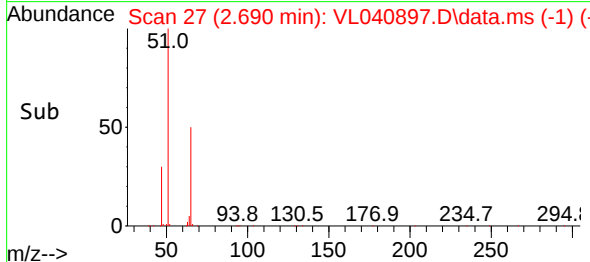
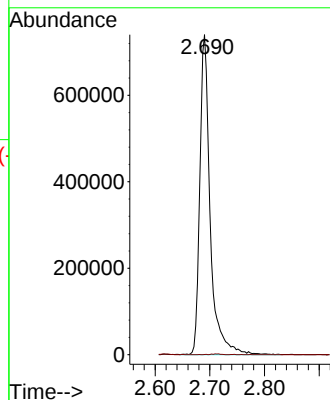
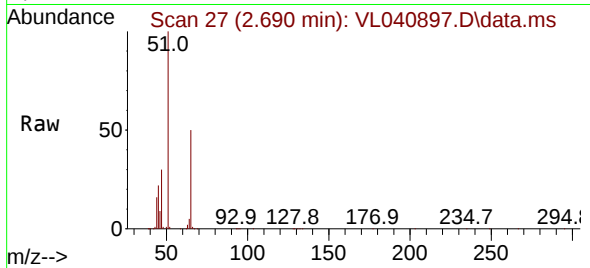




#3
Chlorodifluoromethane
Concen: 6.711 ppbv
RT: 2.690 min Scan# 21
Delta R.T. -0.029 min
Lab File: VL040897.D
Acq: 17 Nov 2023 16:24

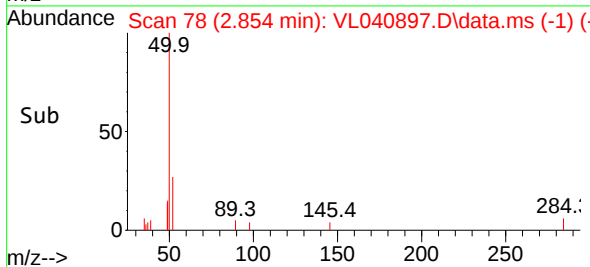
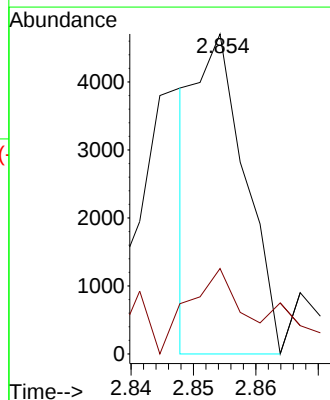
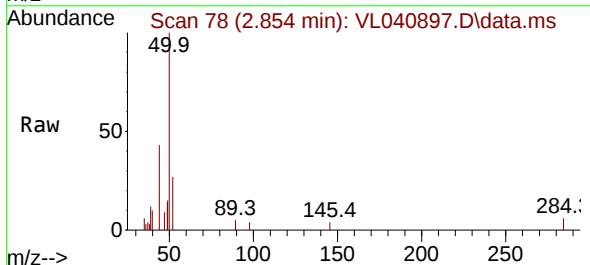
Instrument :
MSVOA_L
ClientSampleId :
VP-2

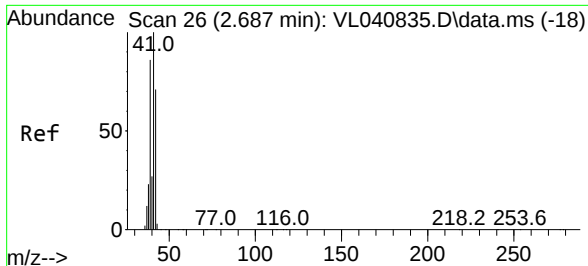
Tgt Ion: 51 Resp: 970930
Ion Ratio Lower Upper
51 100
67 0.3 15.0 22.4#



#4
Chloromethane
Concen: 0.050 ppbv
RT: 2.854 min Scan# 78
Delta R.T. -0.000 min
Lab File: VL040897.D
Acq: 17 Nov 2023 16:24

Tgt Ion: 50 Resp: 2590
Ion Ratio Lower Upper
50 100
52 11.0 26.5 39.7#

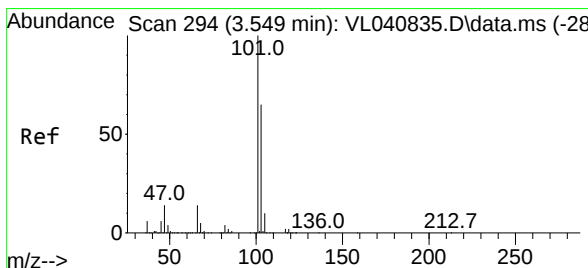
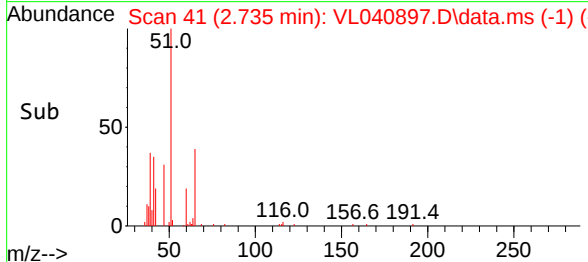
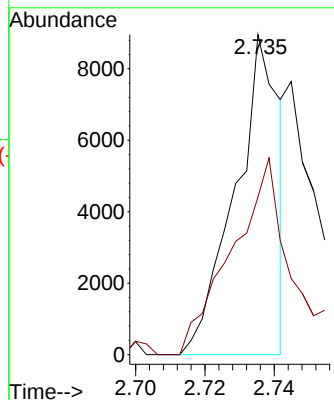
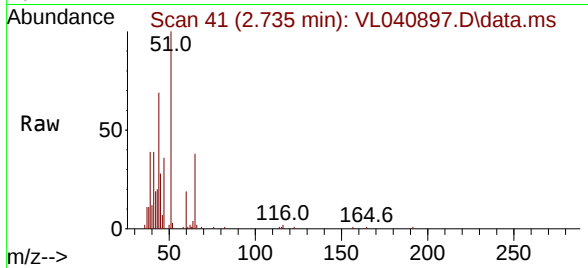




#9
 Propene
 Concen: 0.162 ppbv
 RT: 2.735 min Scan# 41
 Delta R.T. -0.003 min
 Lab File: VL040897.D
 Acq: 17 Nov 2023 16:24

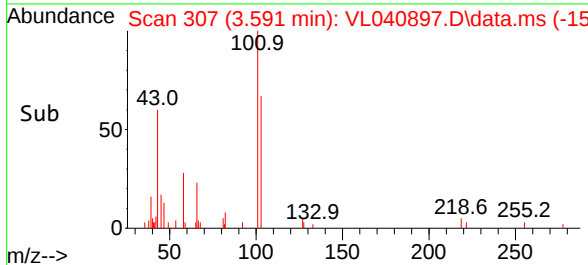
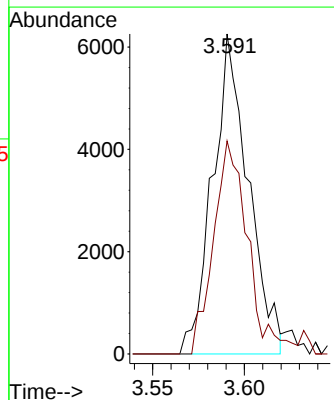
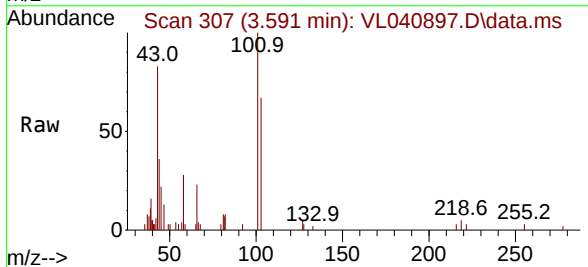
Instrument :
 MSVOA_L
 ClientSampleId :
 VP-2

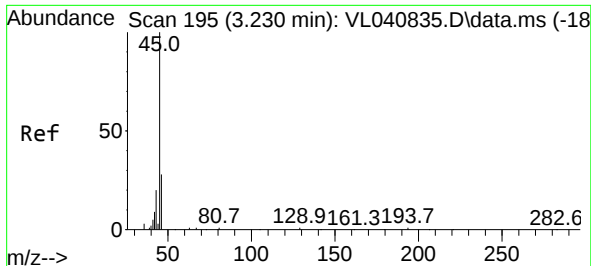
Tgt Ion: 41 Resp: 7887
 Ion Ratio Lower Upper
 41 100
 42 91.5 56.5 84.7#



#11
 Trichlorofluoromethane
 Concen: 0.060 ppbv
 RT: 3.591 min Scan# 307
 Delta R.T. -0.003 min
 Lab File: VL040897.D
 Acq: 17 Nov 2023 16:24

Tgt Ion: 101 Resp: 8463
 Ion Ratio Lower Upper
 101 100
 103 66.6 51.8 77.8

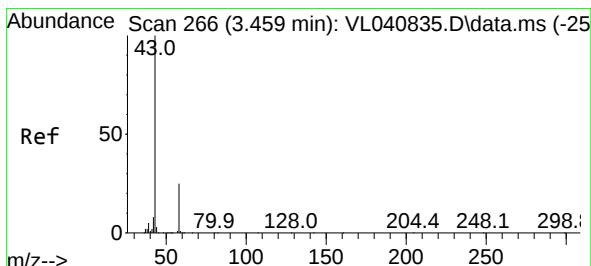
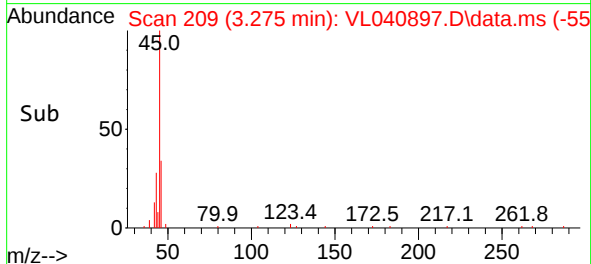
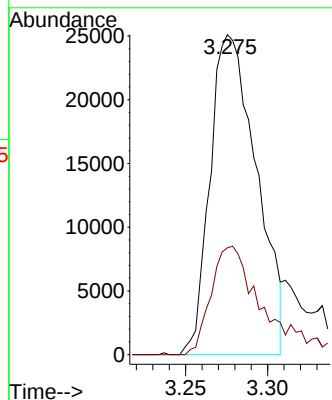
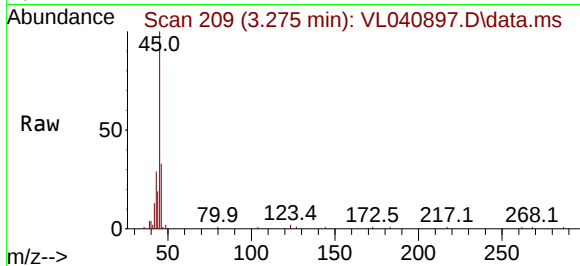




#13
Ethanol
Concen: 5.210 ppbv
RT: 3.275 min Scan# 209
Delta R.T. -0.003 min
Lab File: VL040897.D
Acq: 17 Nov 2023 16:24

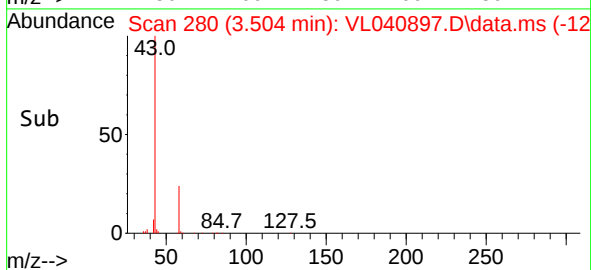
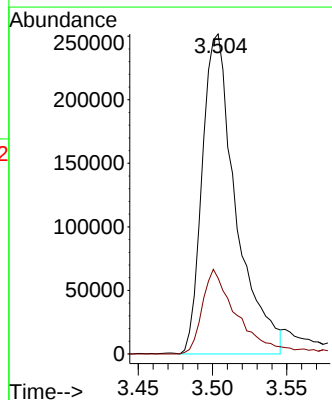
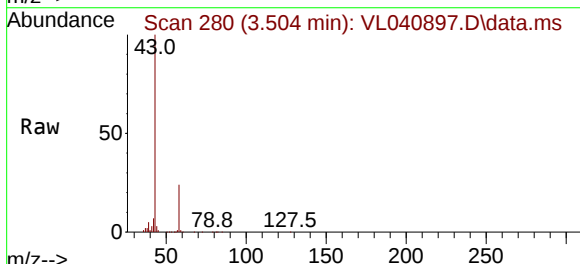
Instrument :
MSVOA_L
ClientSampleId :
VP-2

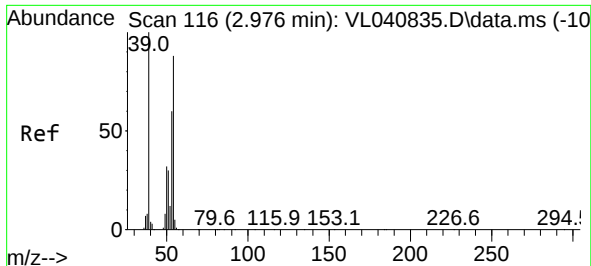
Tgt Ion: 45 Resp: 49330
Ion Ratio Lower Upper
45 100
46 43.7 0.0 0.0#



#15
Acetone
Concen: 4.113 ppbv
RT: 3.504 min Scan# 280
Delta R.T. 0.003 min
Lab File: VL040897.D
Acq: 17 Nov 2023 16:24

Tgt Ion: 43 Resp: 396957
Ion Ratio Lower Upper
43 100
58 28.5 20.9 31.3





#16

1,3-Butadiene

Concen: 0.132 ppbv

RT: 3.041 min Scan# 11

Delta R.T. 0.016 min

Lab File: VL040897.D

Acq: 17 Nov 2023 16:24

Instrument :

MSVOA_L

ClientSampleId :

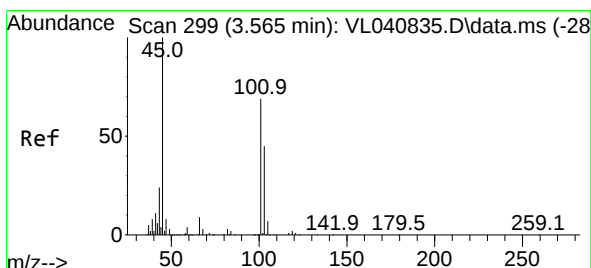
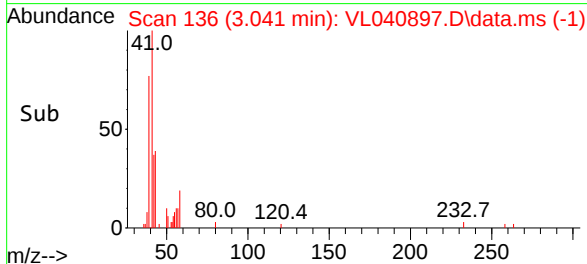
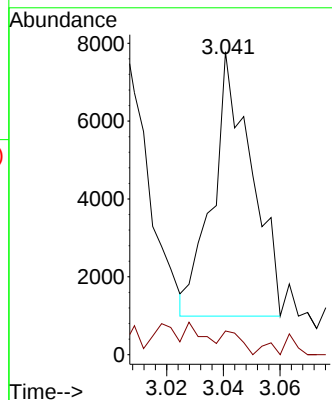
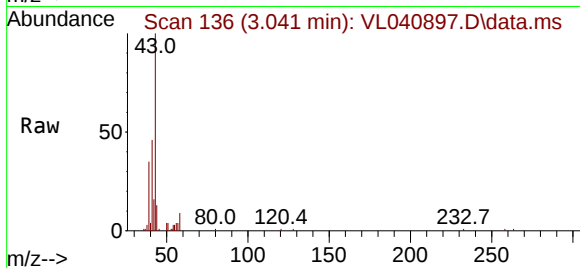
VP-2

Tgt Ion: 39 Resp: 6439

Ion Ratio Lower Upper

39 100

54 0.0 61.8 92.6#



#19

Isopropyl Alcohol

Concen: 1.589 ppbv

RT: 3.613 min Scan# 314

Delta R.T. 0.003 min

Lab File: VL040897.D

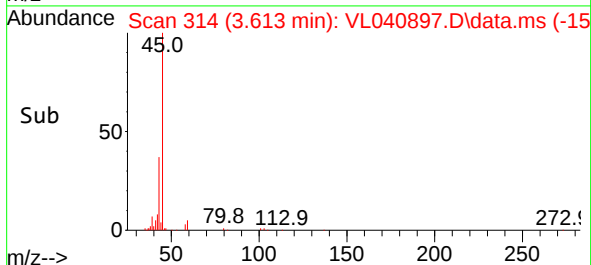
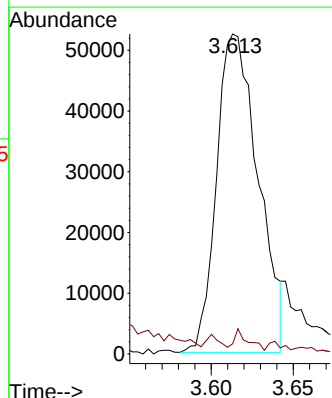
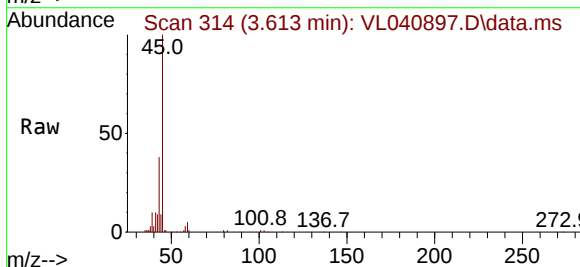
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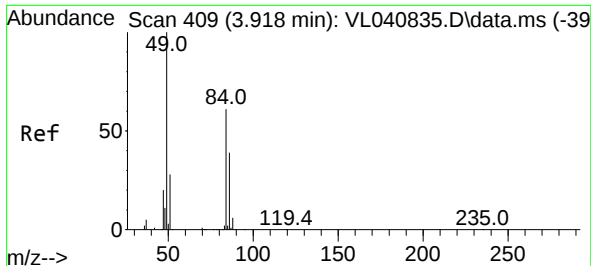
Tgt Ion: 45 Resp: 92284

Ion Ratio Lower Upper

45 100

58 6.9 1.6 2.4#



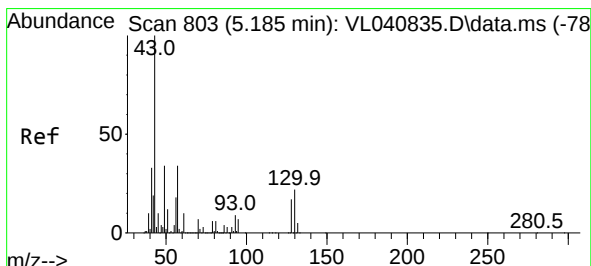
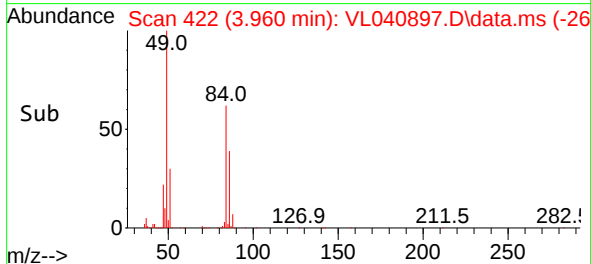
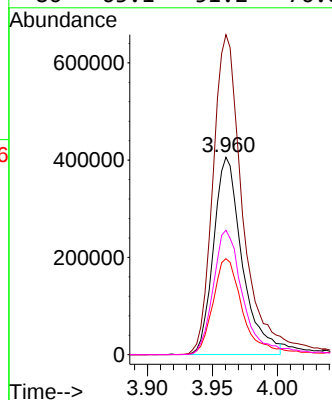
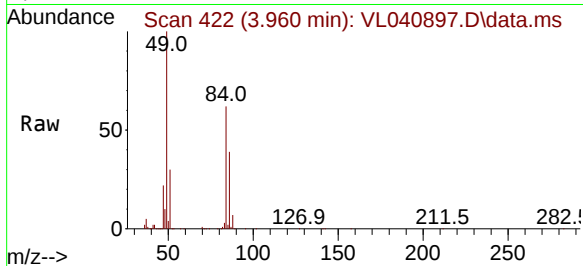


#20
Methylene Chloride
Concen: 15.579 ppbv
RT: 3.960 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL040897.D
Acq: 17 Nov 2023 16:24

Instrument :
MSVOA_L
ClientSampleId :
VP-2

Tgt Ion: 84 Resp: 620508

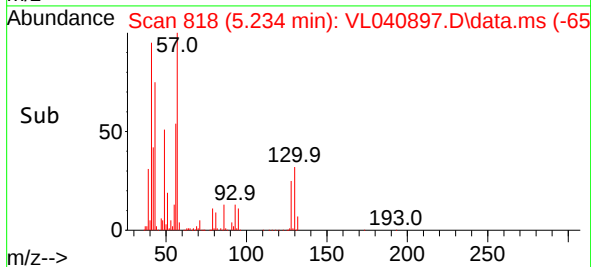
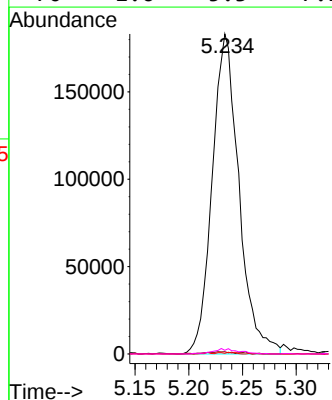
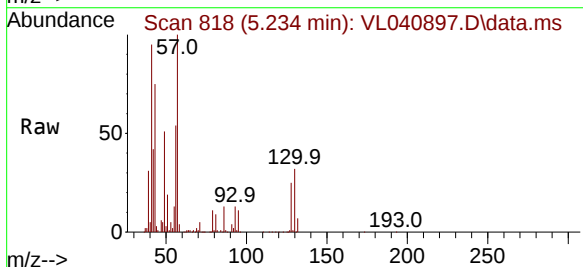
Ion	Ratio	Lower	Upper
84	100		
49	162.1	131.0	196.4
51	48.5	36.9	55.3
86	63.1	51.2	76.8

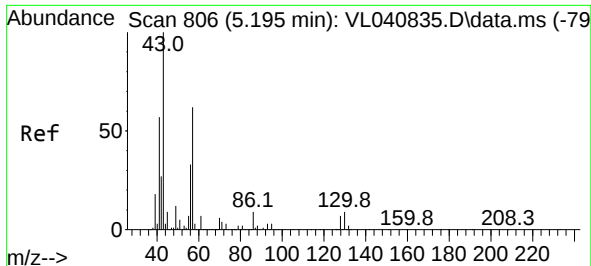


#25
Ethyl Acetate
Concen: 1.585 ppbv
RT: 5.234 min Scan# 818
Delta R.T. 0.013 min
Lab File: VL040897.D
Acq: 17 Nov 2023 16:24

Tgt Ion: 43 Resp: 316832

Ion	Ratio	Lower	Upper
43	100		
45	0.9	8.1	12.1#
61	0.4	7.8	11.6#
70	1.6	5.3	7.9#



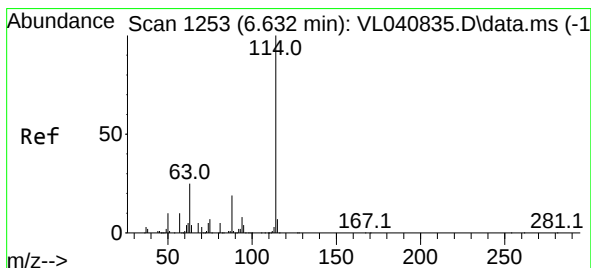
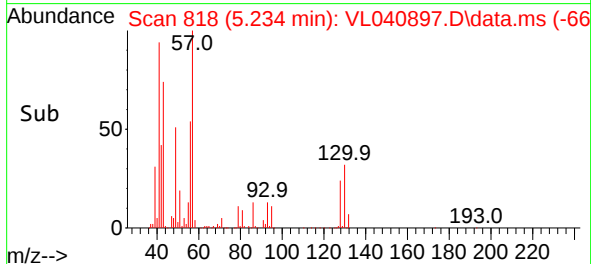
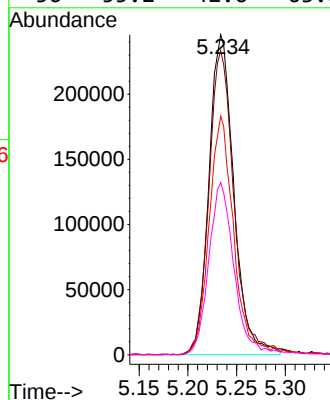
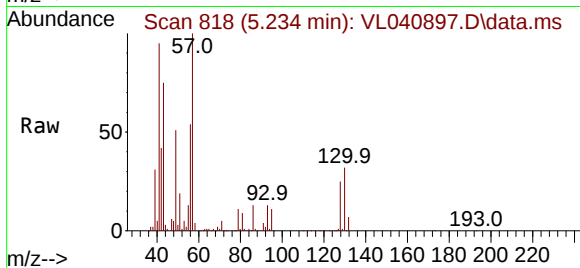


#26
Hexane
Concen: 4.912 ppbv
RT: 5.234 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL040897.D
Acq: 17 Nov 2023 16:24

Instrument :
MSVOA_L
ClientSampleId :
VP-2

Tgt Ion: 57 Resp: 434420

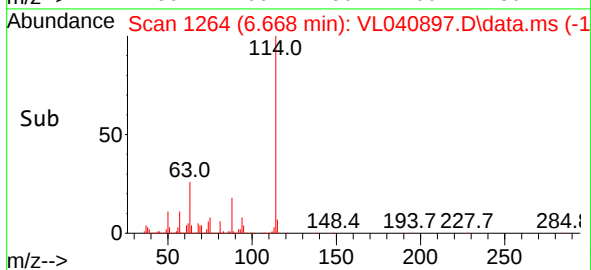
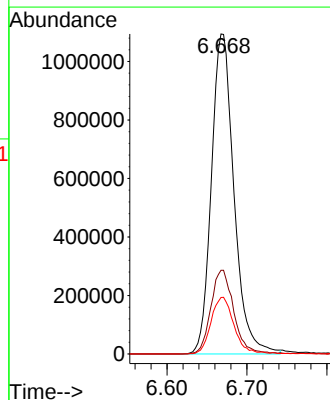
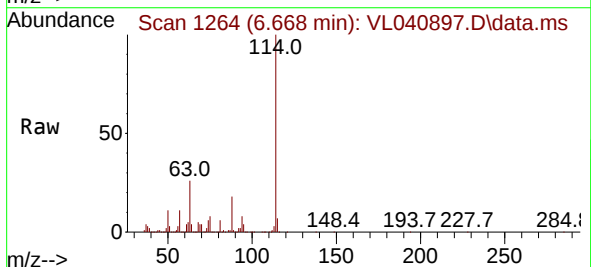
Ion	Ratio	Lower	Upper
57	100		
41	97.7	75.4	113.0
43	74.2	185.9	278.9#
56	55.2	42.6	63.8

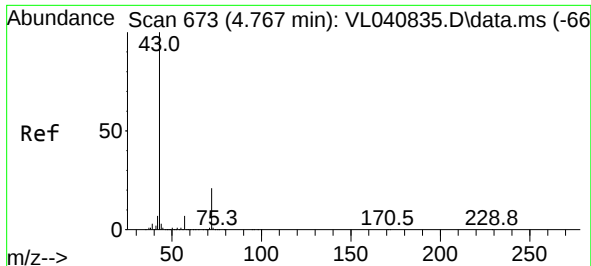


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.668 min Scan# 1264
Delta R.T. 0.003 min
Lab File: VL040897.D
Acq: 17 Nov 2023 16:24

Tgt Ion: 114 Resp: 2145163

Ion	Ratio	Lower	Upper
114	100		
63	26.8	20.9	31.3
88	18.1	14.3	21.5

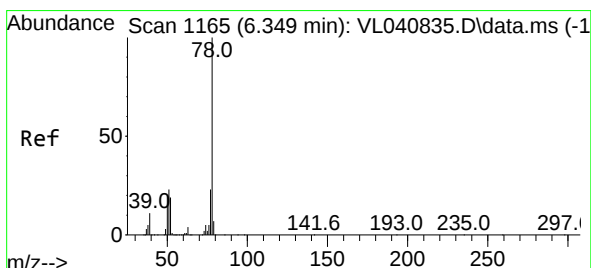
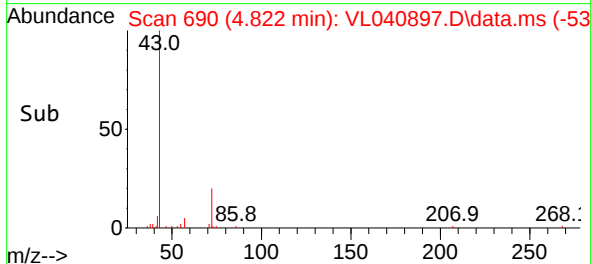
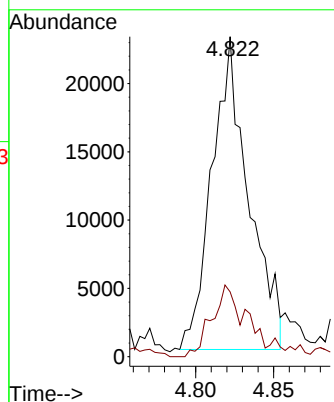
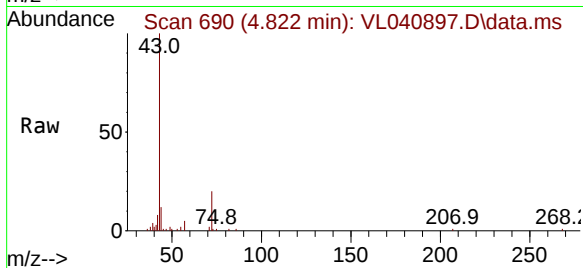




#34
2-Butanone
Concen: 0.345 ppbv
RT: 4.822 min Scan# 61
Delta R.T. 0.016 min
Lab File: VL040897.D
Acq: 17 Nov 2023 16:24

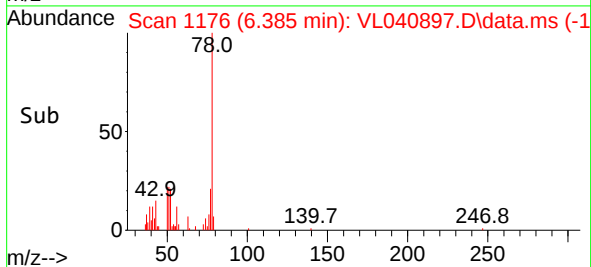
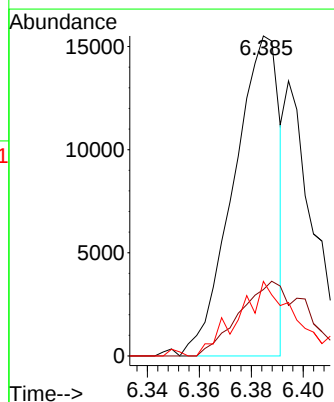
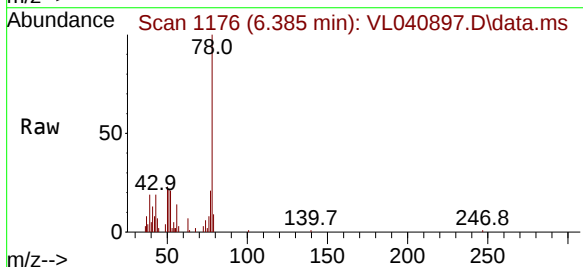
Instrument :
MSVOA_L
ClientSampleId :
VP-2

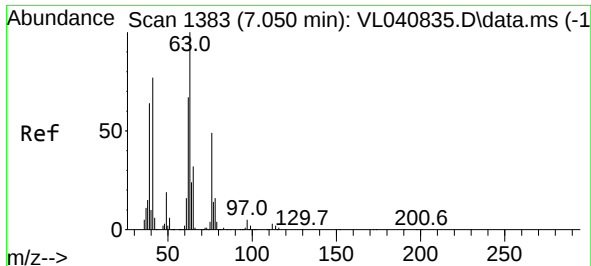
Tgt Ion: 43 Resp: 37695
Ion Ratio Lower Upper
43 100
72 22.5 17.2 25.8



#36
Benzene
Concen: 0.108 ppbv
RT: 6.385 min Scan# 1176
Delta R.T. -0.000 min
Lab File: VL040897.D
Acq: 17 Nov 2023 16:24

Tgt Ion: 78 Resp: 18882
Ion Ratio Lower Upper
78 100
77 21.2 18.4 27.6
50 22.5 16.2 24.2





#39

1,2-Dichloropropane

Concen: 8.207 ppbv

RT: 6.668 min Scan# 1

Delta R.T. -0.415 min

Lab File: VL040897.D

Acq: 17 Nov 2023 16:24

Instrument :

MSVOA_L

ClientSampleId :

VP-2

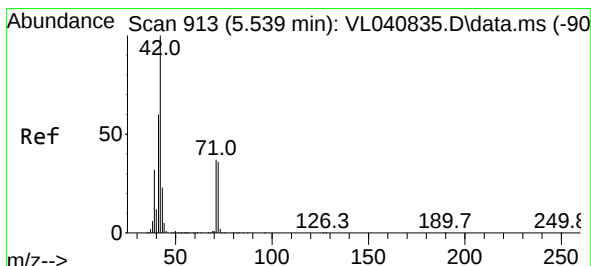
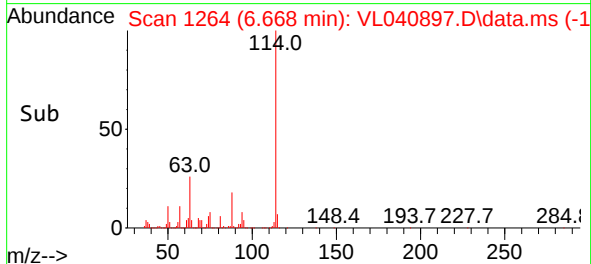
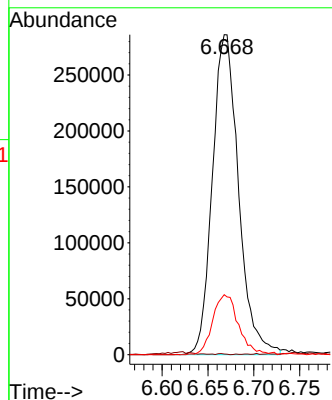
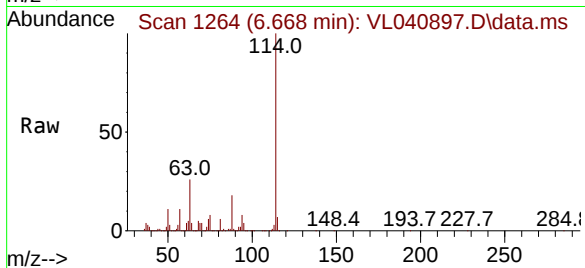
Tgt Ion: 63 Resp: 566554

Ion Ratio Lower Upper

63 100

41 0.1 61.5 92.3#

62 18.7 53.9 80.9#



#41

Tetrahydrofuran

Concen: 2.585 ppbv

RT: 5.234 min Scan# 818

Delta R.T. -0.341 min

Lab File: VL040897.D

Acq: 17 Nov 2023 16:24

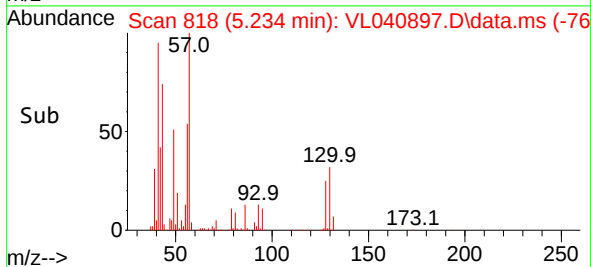
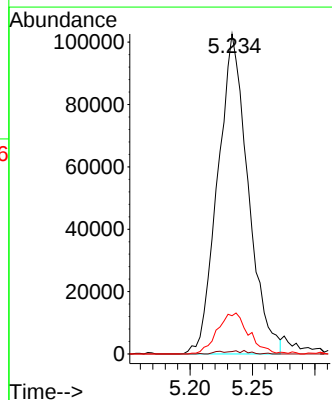
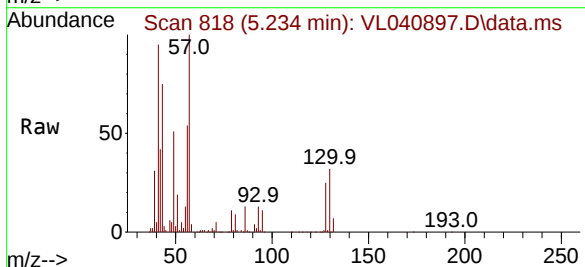
Tgt Ion: 42 Resp: 173914

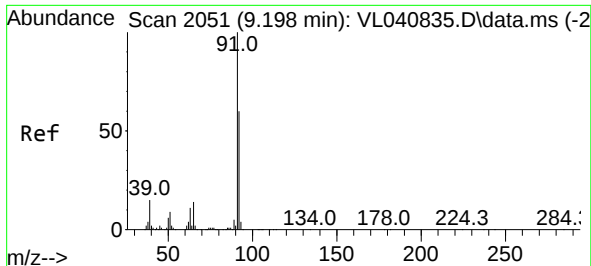
Ion Ratio Lower Upper

42 100

72 0.9 30.8 46.2#

71 13.4 30.0 45.0#

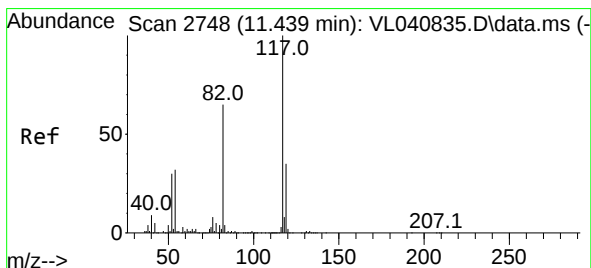
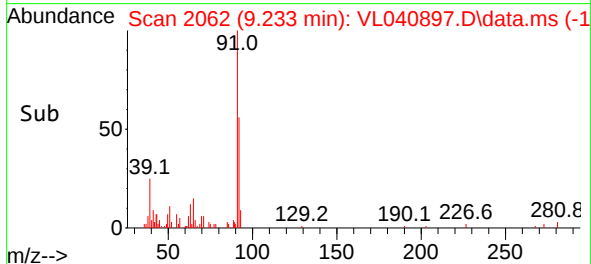
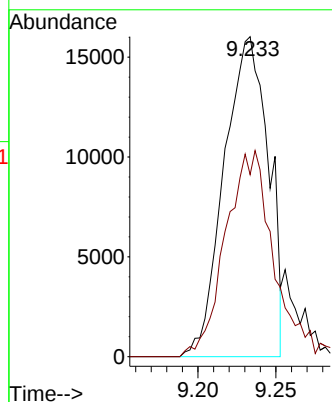
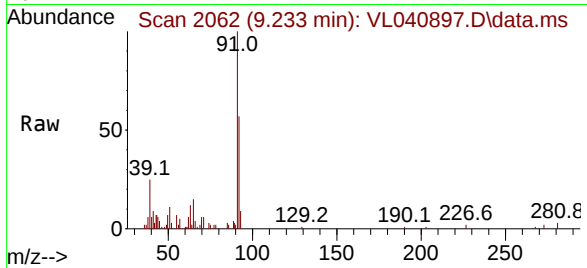




#53
Toluene
Concen: 0.165 ppbv
RT: 9.233 min Scan# 2051
Delta R.T. 0.010 min
Lab File: VL040897.D
Acq: 17 Nov 2023 16:24

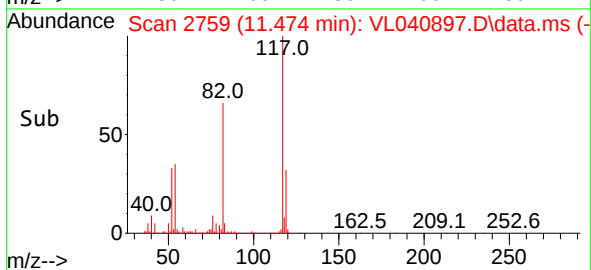
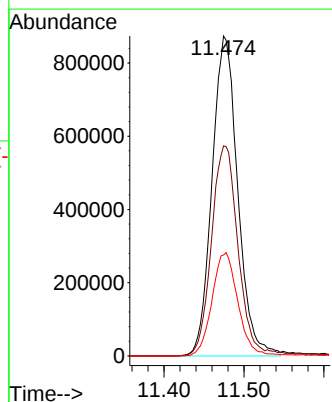
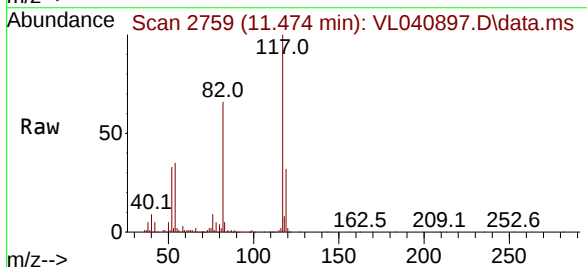
Instrument :
MSVOA_L
ClientSampleId :
VP-2

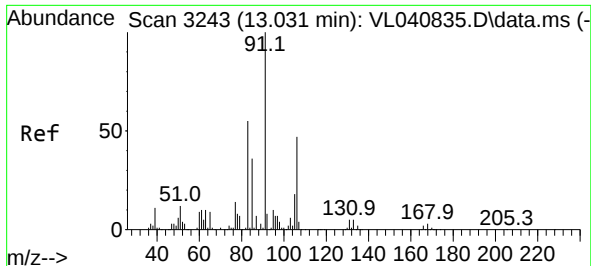
Tgt Ion: 91 Resp: 31633
Ion Ratio Lower Upper
91 100
92 70.1 49.4 74.2



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.474 min Scan# 2759
Delta R.T. 0.013 min
Lab File: VL040897.D
Acq: 17 Nov 2023 16:24

Tgt Ion: 117 Resp: 1949062
Ion Ratio Lower Upper
117 100
82 69.4 50.6 75.8
119 32.8 23.3 34.9

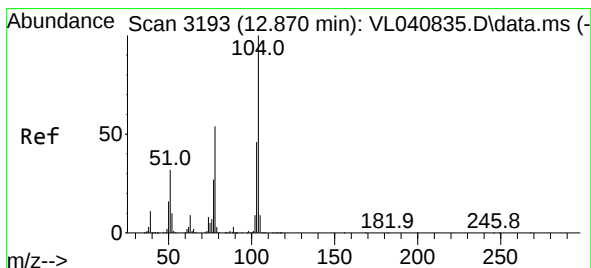
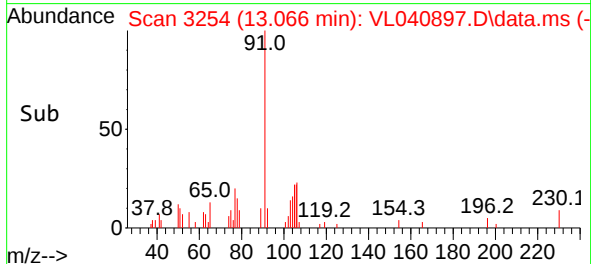
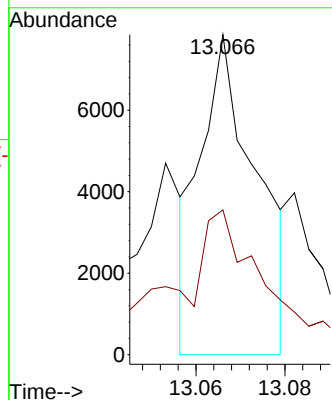
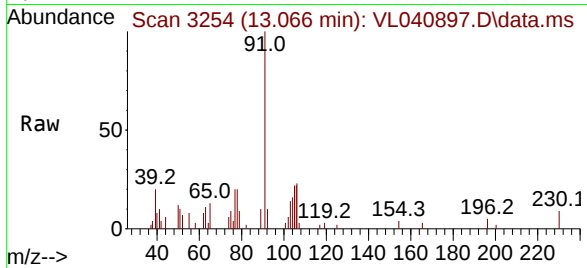




#60
o-Xylene
Concen: 0.033 ppbv
RT: 13.066 min Scan# 31
Delta R.T. 0.013 min
Lab File: VL040897.D
Acq: 17 Nov 2023 16:24

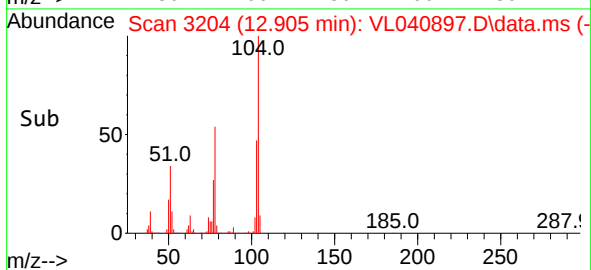
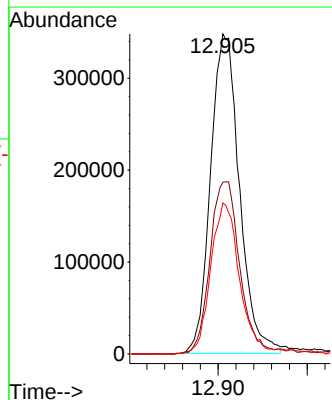
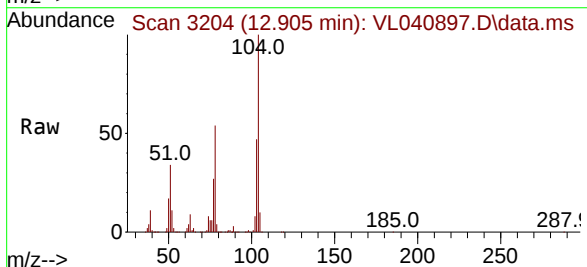
Instrument :
MSVOA_L
ClientSampleId :
VP-2

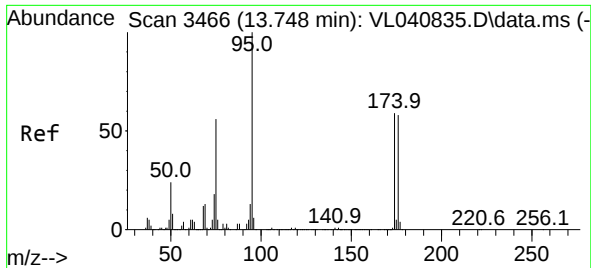
Tgt Ion: 91 Resp: 6834
Ion Ratio Lower Upper
91 100
106 92.0 22.9 68.5#



#61
Styrene
Concen: 7.881 ppbv
RT: 12.905 min Scan# 3204
Delta R.T. 0.013 min
Lab File: VL040897.D
Acq: 17 Nov 2023 16:24

Tgt Ion:104 Resp: 783558
Ion Ratio Lower Upper
104 100
78 57.3 43.3 64.9
103 48.1 37.6 56.4





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.655 ppbv
 RT: 13.783 min Scan# 34
 Delta R.T. 0.013 min
 Lab File: VL040897.D
 Acq: 17 Nov 2023 16:24

Instrument :
 MSVOA_L
 ClientSampleId :
 VP-2

Tgt Ion: 95 Resp: 1625860

Ion	Ratio	Lower	Upper
95	100		
174	58.9	47.5	71.3
175	4.3	3.6	5.4

