

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111723\
 Data File : VL040898.D
 Acq On : 17 Nov 2023 17:03
 Operator : SY/MD
 Sample : 05474-02DUP 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VP-2DUP

Quant Time: Nov 20 04:00:02 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111323AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 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)

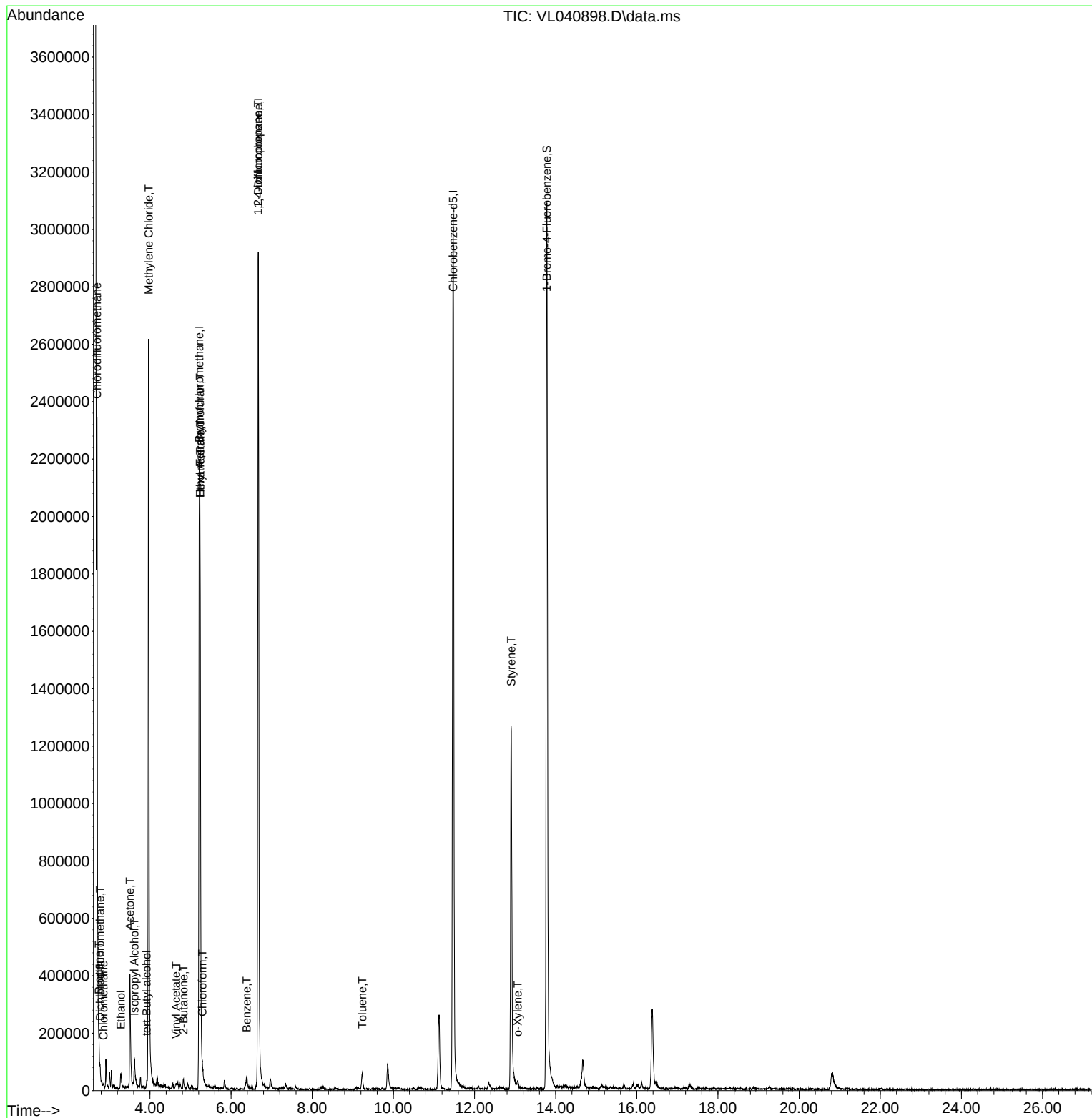
Internal Standards						
1) Bromochloromethane	5.218	49	899600	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.671	114	2143827	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.475	117	1910541	10.000	ppbv	0.01
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.783	95	1555282	10.398	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.000%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.771	85	21550	0.118	ppbv	94
3) Chlorodifluoromethane	2.697	51	907430	6.318	ppbv #	59
4) Chloromethane	2.858	50	5067	0.098	ppbv	91
9) Propene	2.742	41	12411	0.256	ppbv	92
13) Ethanol	3.282	45	47360	5.039	ppbv #	100
15) Acetone	3.507	43	400115	4.176	ppbv	97
17) tert-Butyl alcohol	3.922	59	5188	0.063	ppbv #	25
19) Isopropyl Alcohol	3.616	45	41577	0.721	ppbv #	94
20) Methylene Chloride	3.967	84	852738	21.566	ppbv	97
23) Vinyl Acetate	4.648	43	8189	0.066	ppbv #	79
25) Ethyl Acetate	5.237	43	393276	1.982	ppbv #	76
26) Hexane	5.237	57	541879	6.172	ppbv #	40
29) Chloroform	5.292	83	11416	0.077	ppbv	99
34) 2-Butanone	4.829	43	32161	0.294	ppbv #	86
36) Benzene	6.388	78	26126	0.150	ppbv #	94
39) 1,2-Dichloropropane	6.668	63	565257	8.194	ppbv #	24
41) Tetrahydrofuran	5.234	42	218068	3.243	ppbv #	49
53) Toluene	9.233	91	36350	0.190	ppbv	97
60) o-Xylene	13.063	91	7981	0.039	ppbv #	60
61) Styrene	12.905	104	728370	7.474	ppbv	97

(#) = 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
QLast Update : Mon Nov 20 03:50:24 2023
Response via : Initial Calibration

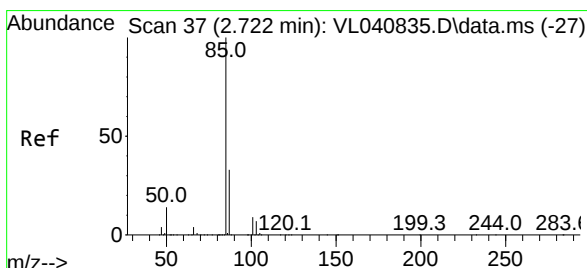
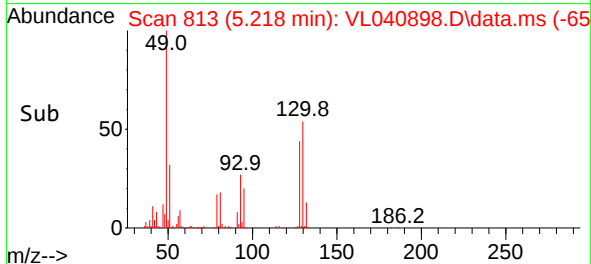
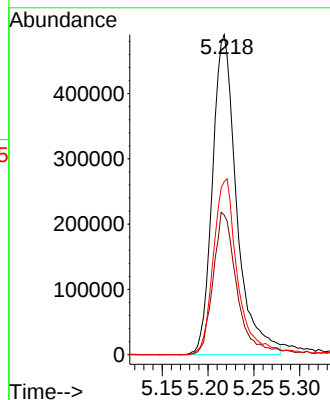
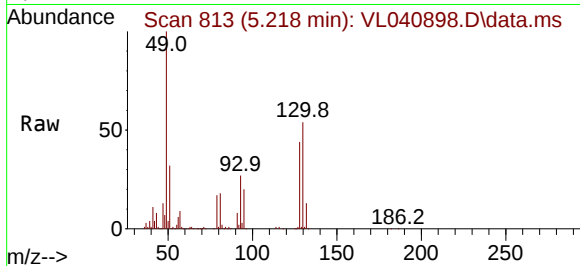




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.218 min Scan# 81
 Delta R.T. 0.007 min
 Lab File: VL040898.D
 Acq: 17 Nov 2023 17:03

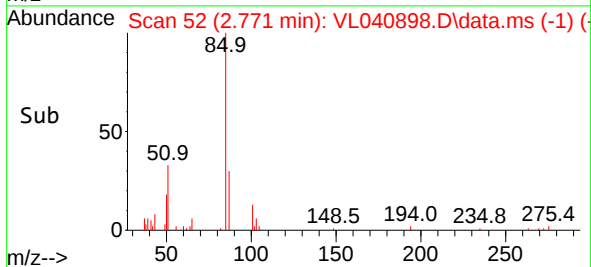
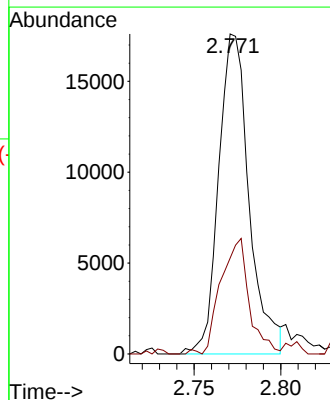
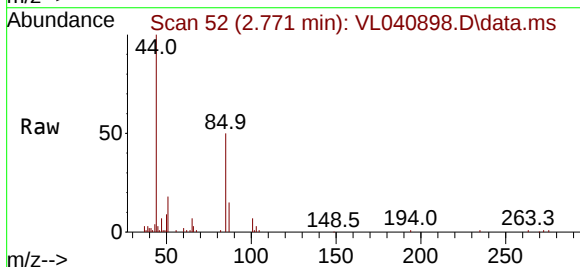
Instrument :
 MSVOA_L
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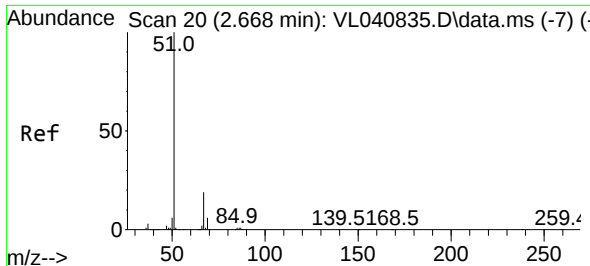
Tgt Ion: 49 Resp: 899600
 Ion Ratio Lower Upper
 49 100
 128 45.1 23.8 71.2
 130 56.8 30.9 92.8



#2
 Dichlorodifluoromethane
 Concen: 0.118 ppbv
 RT: 2.771 min Scan# 52
 Delta R.T. -0.003 min
 Lab File: VL040898.D
 Acq: 17 Nov 2023 17:03

Tgt Ion: 85 Resp: 21550
 Ion Ratio Lower Upper
 85 100
 87 30.0 26.7 40.1

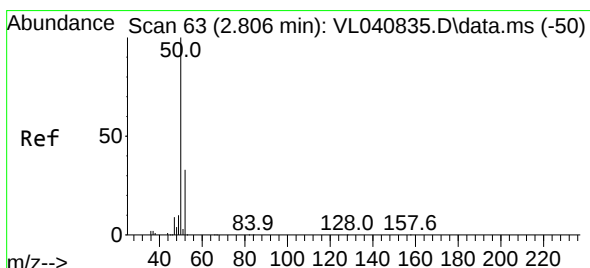
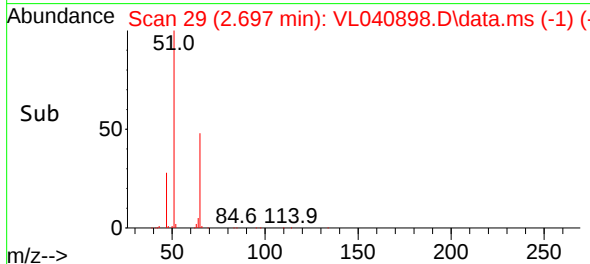
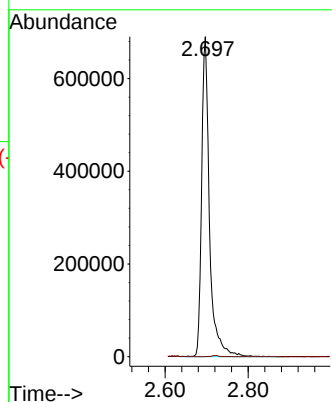
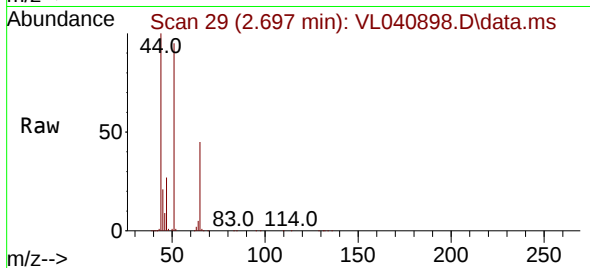




#3
Chlorodifluoromethane
Concen: 6.318 ppbv
RT: 2.697 min Scan# 24
Delta R.T. -0.023 min
Lab File: VL040898.D
Acq: 17 Nov 2023 17:03

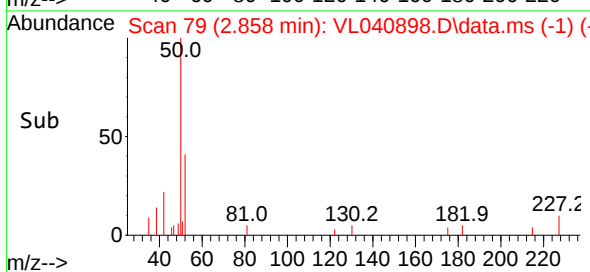
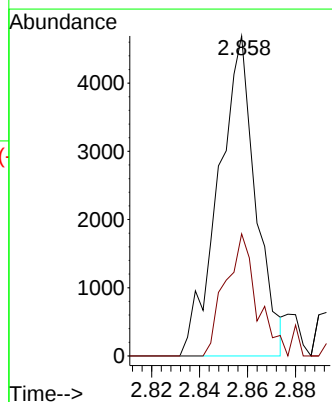
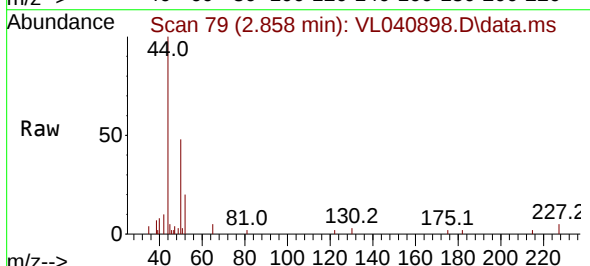
Instrument :
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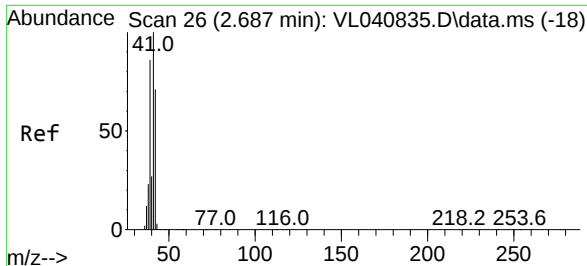
Tgt Ion: 51 Resp: 907430
Ion Ratio Lower Upper
51 100
67 0.3 15.0 22.4#



#4
Chloromethane
Concen: 0.098 ppbv
RT: 2.858 min Scan# 79
Delta R.T. 0.003 min
Lab File: VL040898.D
Acq: 17 Nov 2023 17:03

Tgt Ion: 50 Resp: 5067
Ion Ratio Lower Upper
50 100
52 38.1 26.5 39.7

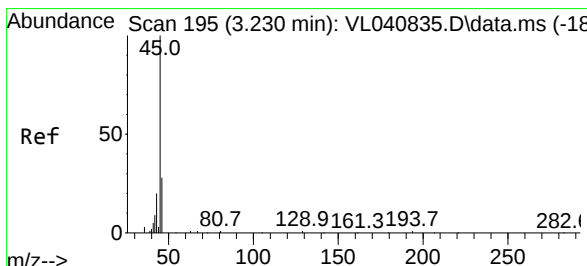
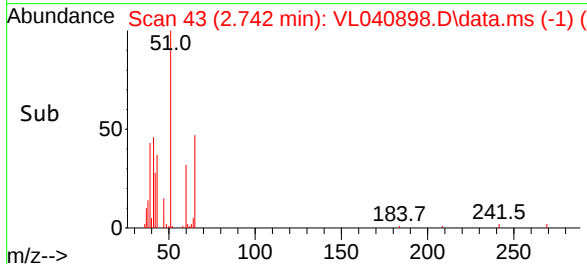
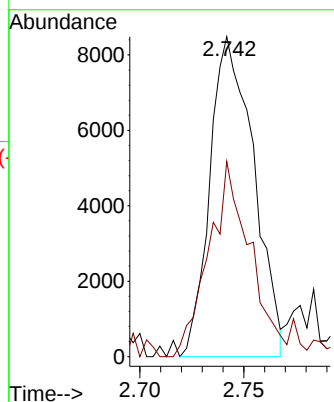
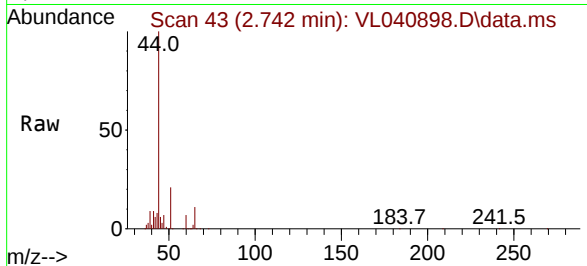




#9
Propene
Concen: 0.256 ppbv
RT: 2.742 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL040898.D
Acq: 17 Nov 2023 17:03

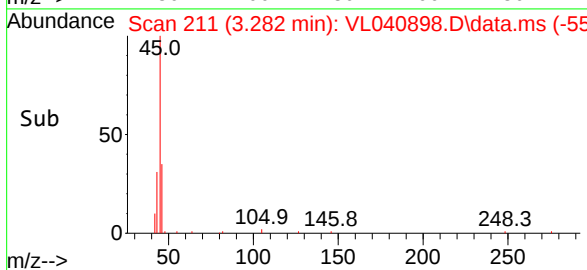
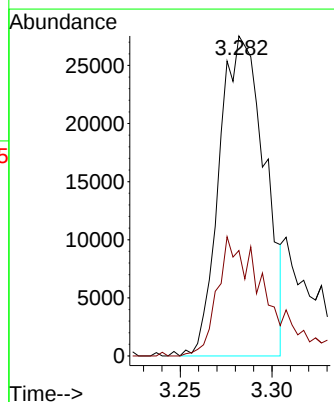
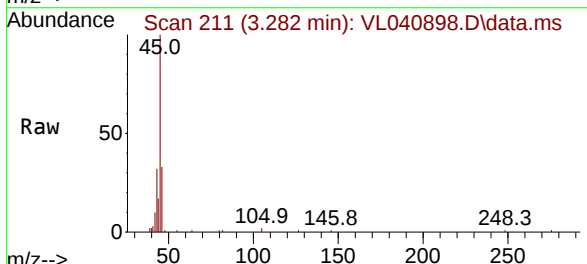
Instrument :
MSVOA_L
ClientSampleId :
VP-2DUP

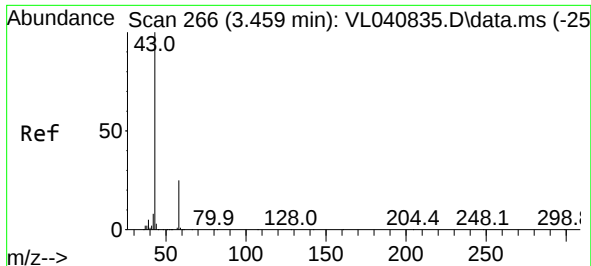
Tgt Ion: 41 Resp: 12411
Ion Ratio Lower Upper
41 100
42 63.7 56.5 84.7



#13
Ethanol
Concen: 5.039 ppbv
RT: 3.282 min Scan# 211
Delta R.T. 0.003 min
Lab File: VL040898.D
Acq: 17 Nov 2023 17:03

Tgt Ion: 45 Resp: 47360
Ion Ratio Lower Upper
45 100
46 43.1 0.0 0.0#

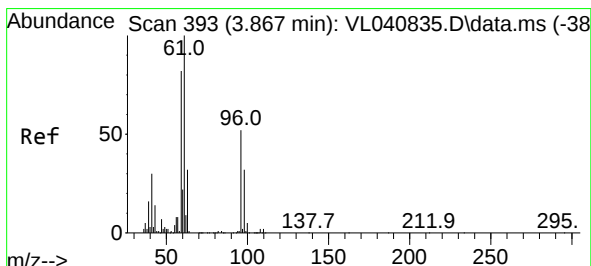
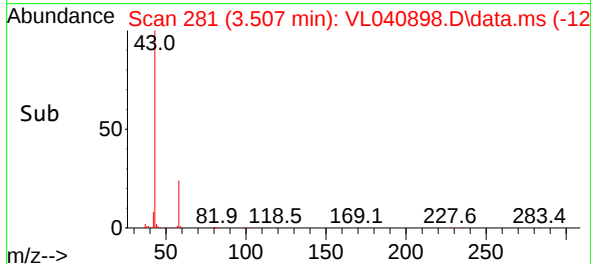
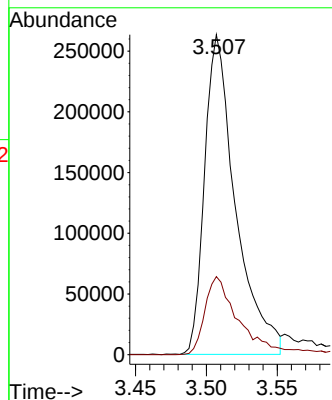
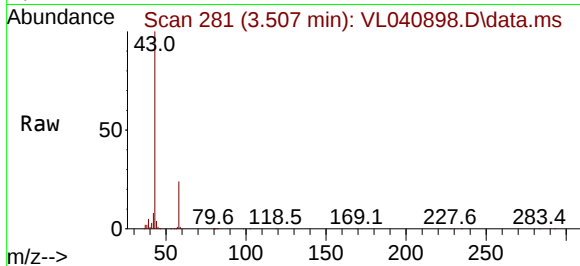




#15
Acetone
Concen: 4.176 ppbv
RT: 3.507 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL040898.D
Acq: 17 Nov 2023 17:03

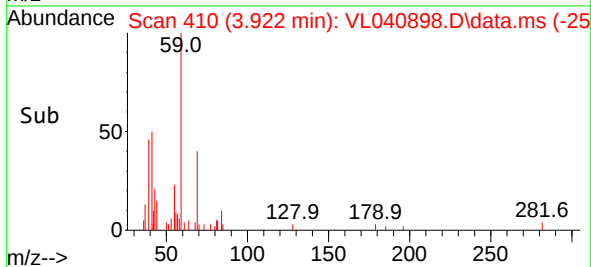
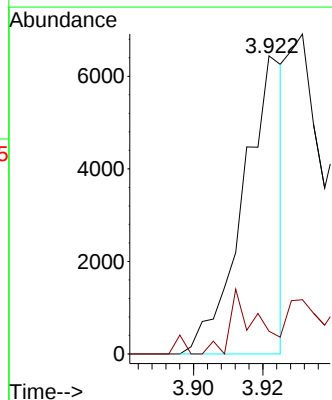
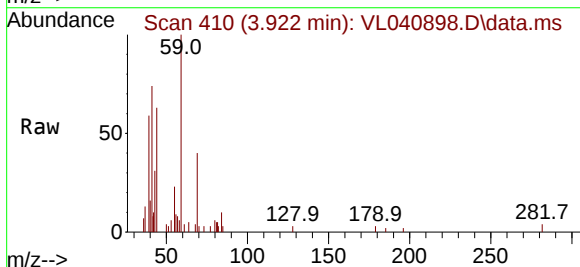
Instrument :
MSVOA_L
ClientSampleId :
VP-2DUP

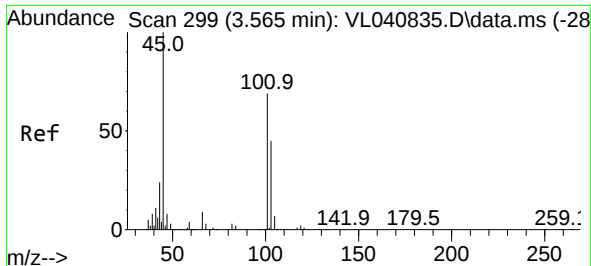
Tgt Ion: 43 Resp: 400115
Ion Ratio Lower Upper
43 100
58 27.7 20.9 31.3



#17
tert-Butyl alcohol
Concen: 0.063 ppbv
RT: 3.922 min Scan# 410
Delta R.T. 0.013 min
Lab File: VL040898.D
Acq: 17 Nov 2023 17:03

Tgt Ion: 59 Resp: 5188
Ion Ratio Lower Upper
59 100
57 39.8 9.0 13.4#





#19

Isopropyl Alcohol

Concen: 0.721 ppbv

RT: 3.616 min Scan# 315

Delta R.T. 0.006 min

Lab File: VL040898.D

Acq: 17 Nov 2023 17:03

Instrument :

MSVOA_L

ClientSampleId :

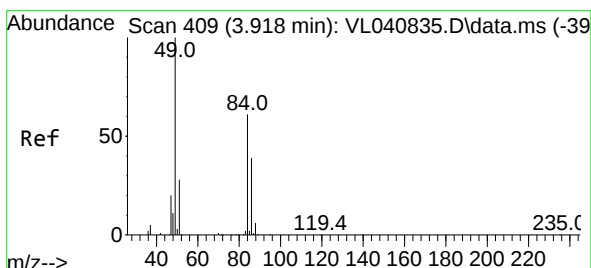
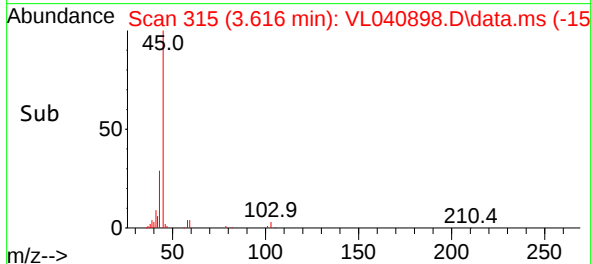
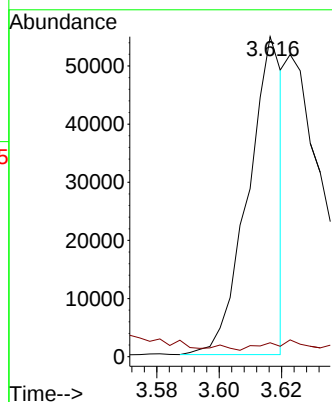
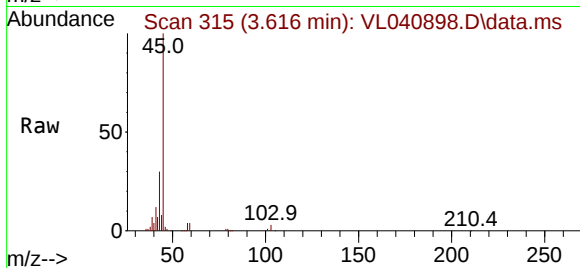
VP-2DUP

Tgt Ion: 45 Resp: 41577

Ion Ratio Lower Upper

45 100

58 0.0 1.6 2.4#



#20

Methylene Chloride

Concen: 21.566 ppbv

RT: 3.967 min Scan# 424

Delta R.T. 0.003 min

Lab File: VL040898.D

Acq: 17 Nov 2023 17:03

Tgt Ion: 84 Resp: 852738

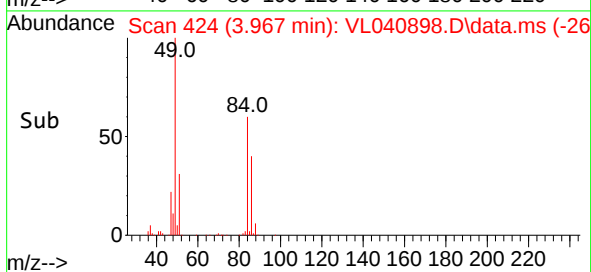
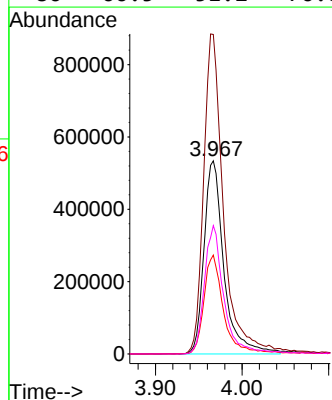
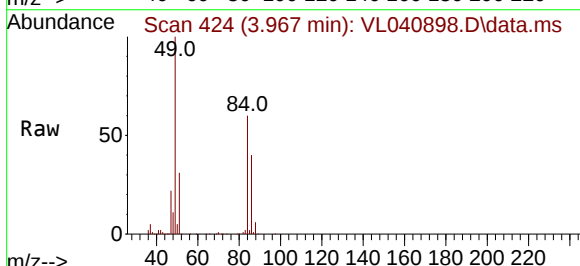
Ion Ratio Lower Upper

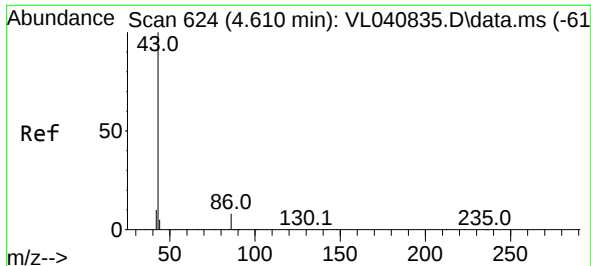
84 100

49 165.5 131.0 196.4

51 51.0 36.9 55.3

86 66.5 51.2 76.8

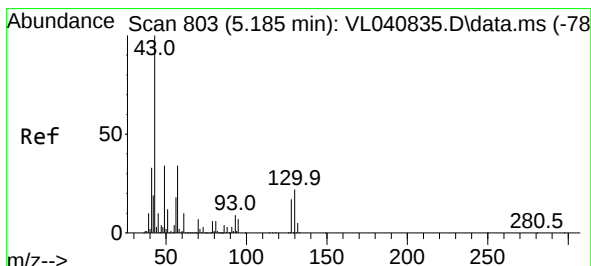
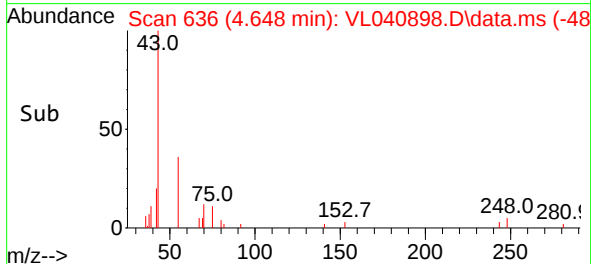
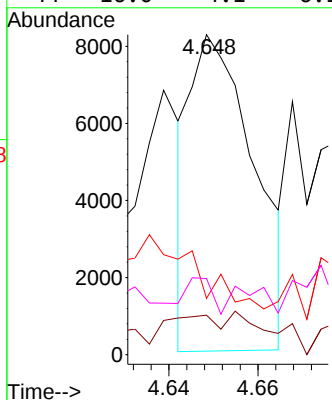
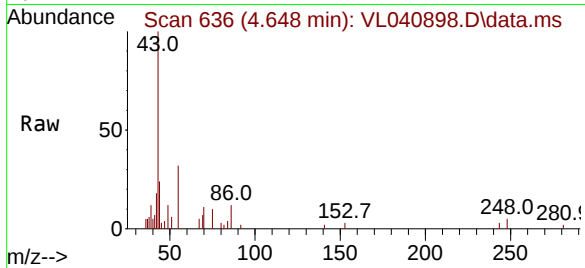




#23
 Vinyl Acetate
 Concen: 0.066 ppbv
 RT: 4.648 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: VL040898.D
 Acq: 17 Nov 2023 17:03

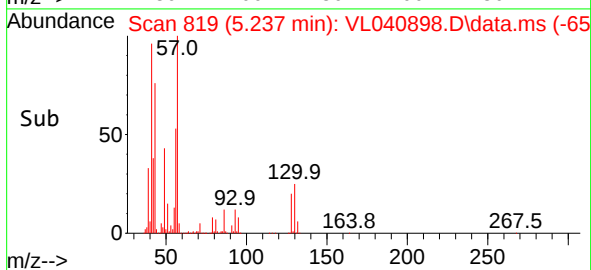
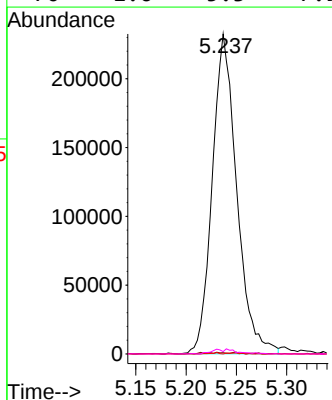
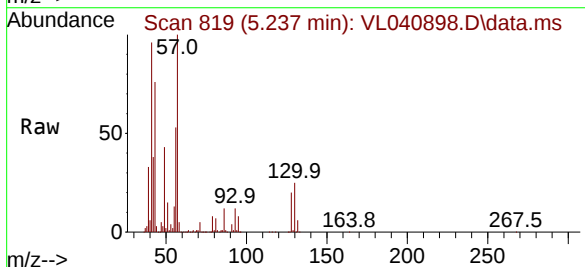
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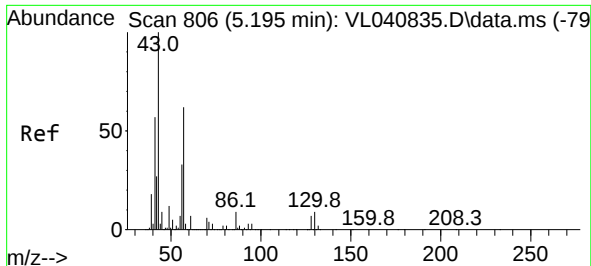
Tgt Ion: 43	Resp: 8189
Ion Ratio	Lower Upper
43	100
86	10.4 5.5 8.3#
42	1.9 8.2 12.2#
44	16.0 4.1 6.1#



#25
 Ethyl Acetate
 Concen: 1.982 ppbv
 RT: 5.237 min Scan# 819
 Delta R.T. 0.016 min
 Lab File: VL040898.D
 Acq: 17 Nov 2023 17:03

Tgt Ion: 43	Resp: 393276
Ion Ratio	Lower Upper
43	100
45	0.1 8.1 12.1#
61	0.1 7.8 11.6#
70	1.6 5.3 7.9#

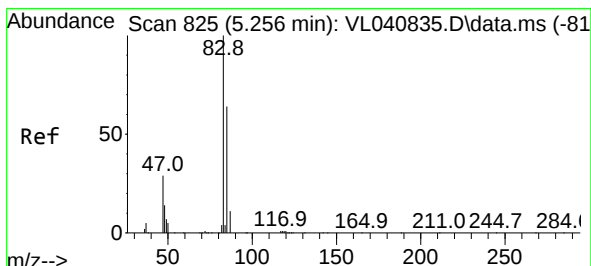
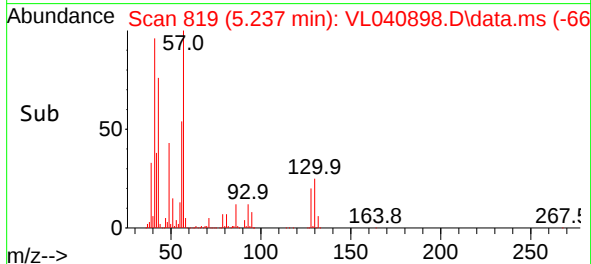
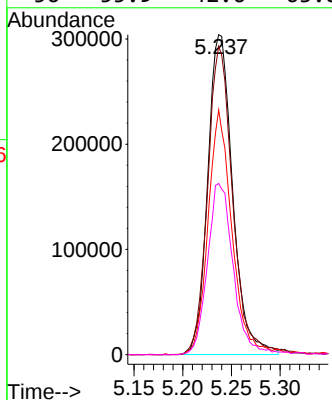
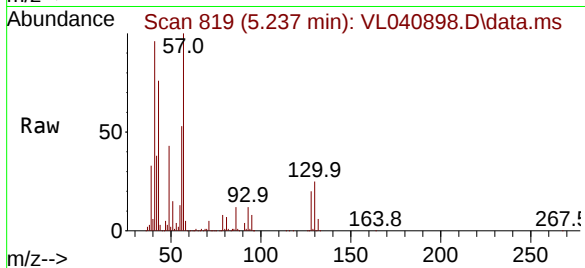




#26
Hexane
Concen: 6.172 ppbv
RT: 5.237 min Scan# 819
Delta R.T. 0.006 min
Lab File: VL040898.D
Acq: 17 Nov 2023 17:03

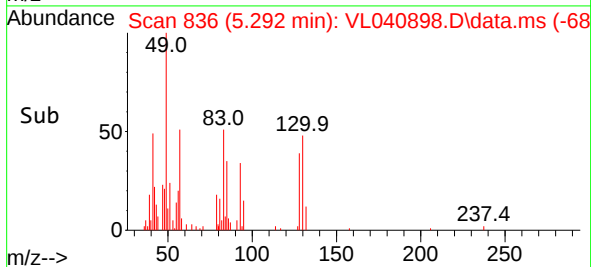
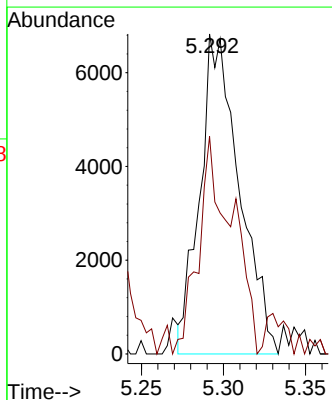
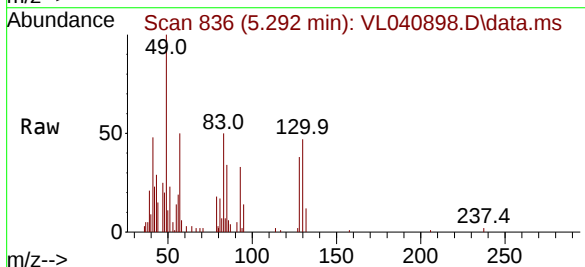
Instrument :
MSVOA_L
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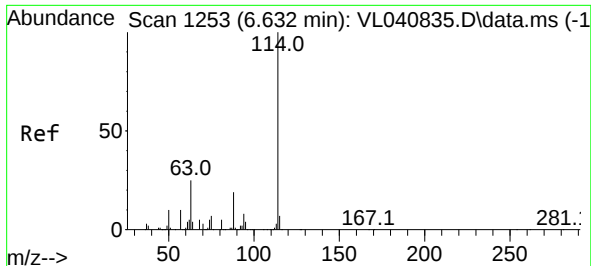
Tgt Ion:	57	Resp:	541879
Ion	Ratio	Lower	Upper
57	100		
41	98.3	75.4	113.0
43	74.4	185.9	278.9#
56	55.9	42.6	63.8



#29
Chloroform
Concen: 0.077 ppbv
RT: 5.292 min Scan# 836
Delta R.T. -0.003 min
Lab File: VL040898.D
Acq: 17 Nov 2023 17:03

Tgt Ion:	83	Resp:	11416
Ion	Ratio	Lower	Upper
83	100		
85	63.5	51.4	77.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.671 min Scan# 11

Delta R.T. 0.006 min

Lab File: VL040898.D

Acq: 17 Nov 2023 17:03

Instrument :

MSVOA_L

ClientSampleId :

VP-2DUP

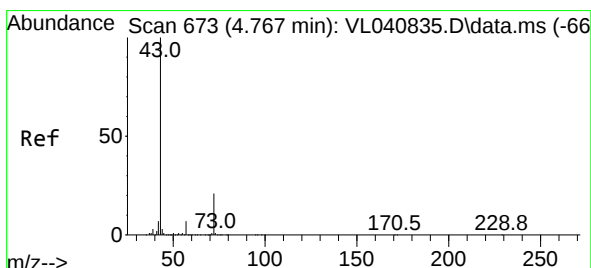
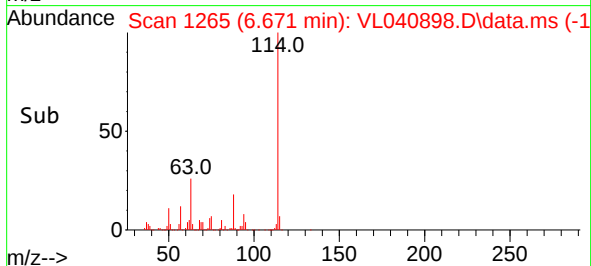
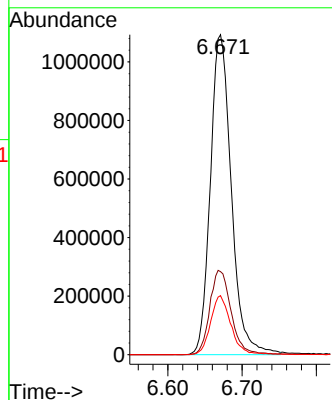
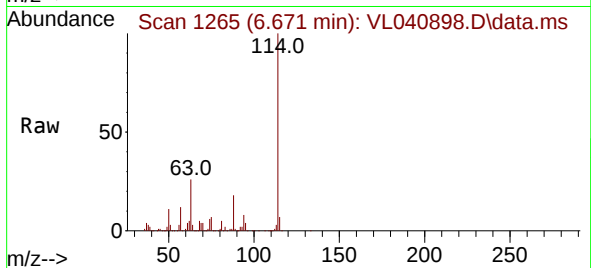
Tgt Ion:114 Resp: 2143827

Ion Ratio Lower Upper

114 100

63 27.0 20.9 31.3

88 18.0 14.3 21.5



#34

2-Butanone

Concen: 0.294 ppbv

RT: 4.829 min Scan# 692

Delta R.T. 0.022 min

Lab File: VL040898.D

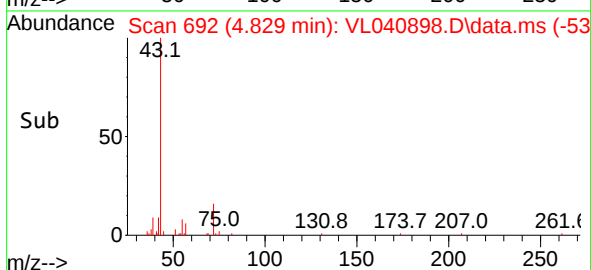
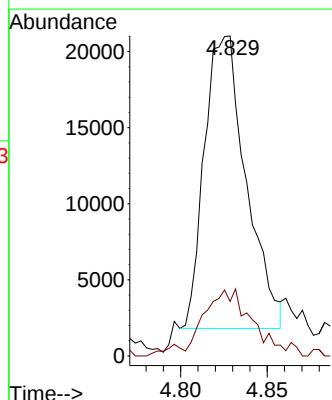
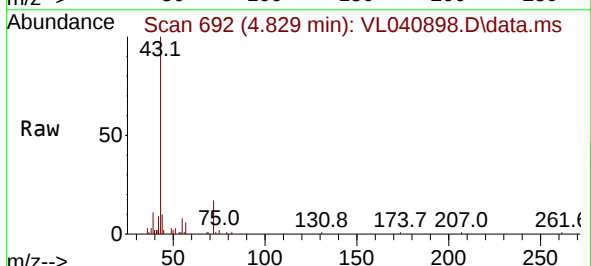
Acq: 17 Nov 2023 17:03

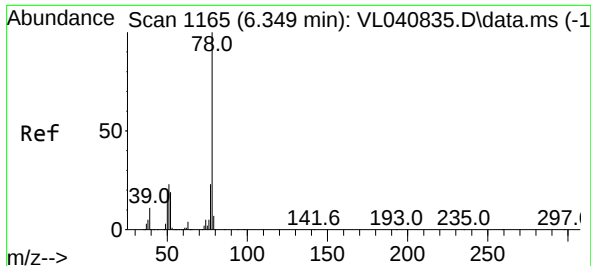
Tgt Ion: 43 Resp: 32161

Ion Ratio Lower Upper

43 100

72 27.9 17.2 25.8#

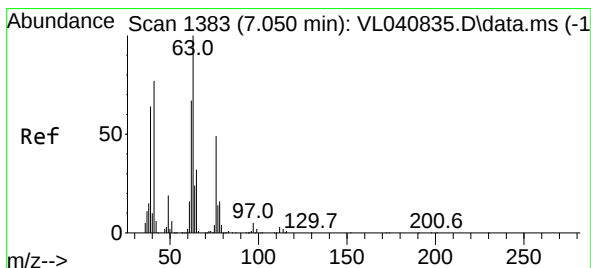
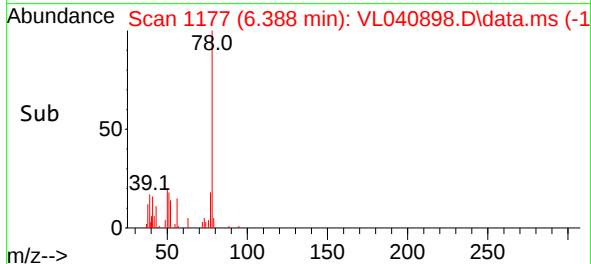
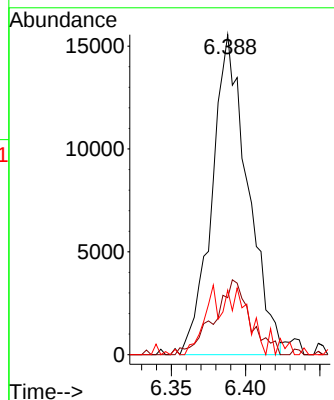
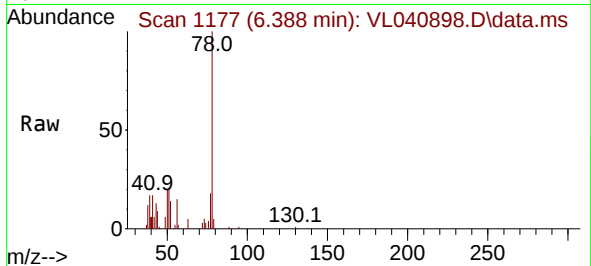




#36
Benzene
Concen: 0.150 ppbv
RT: 6.388 min Scan# 1165
Delta R.T. 0.003 min
Lab File: VL040898.D
Acq: 17 Nov 2023 17:03

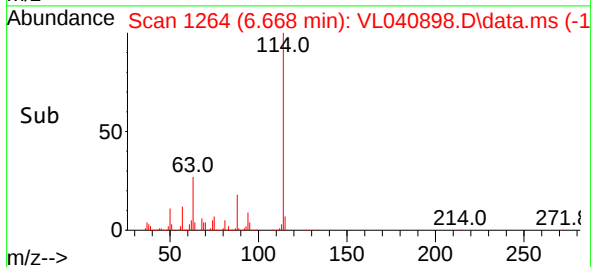
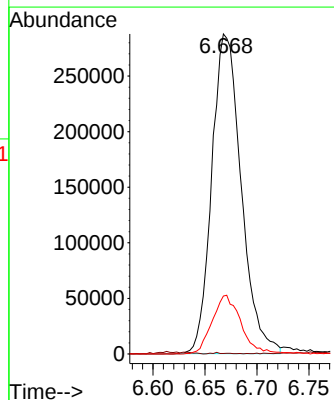
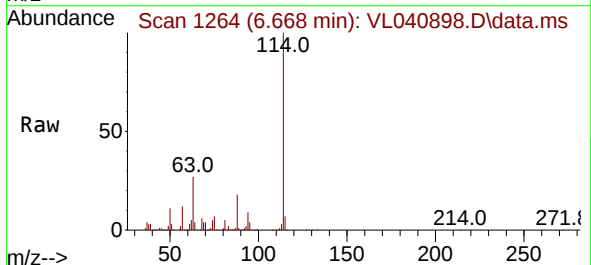
Instrument :
MSVOA_L
ClientSampleId :
VP-2DUP

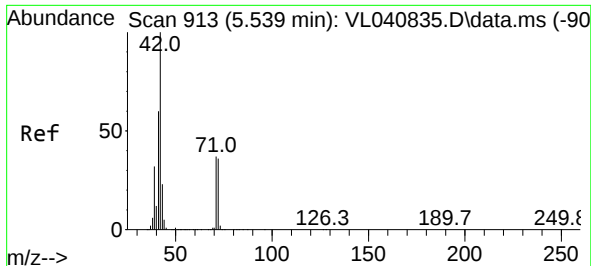
Tgt Ion: 78 Resp: 26126
Ion Ratio Lower Upper
78 100
77 17.8 18.4 27.6#
50 20.2 16.2 24.2



#39
1,2-Dichloropropane
Concen: 8.194 ppbv
RT: 6.668 min Scan# 1264
Delta R.T. -0.415 min
Lab File: VL040898.D
Acq: 17 Nov 2023 17:03

Tgt Ion: 63 Resp: 565257
Ion Ratio Lower Upper
63 100
41 0.0 61.5 92.3#
62 18.1 53.9 80.9#





#41

Tetrahydrofuran

Concen: 3.243 ppbv

RT: 5.234 min Scan# 81

Delta R.T. -0.341 min

Lab File: VL040898.D

Acq: 17 Nov 2023 17:03

Instrument :

MSVOA_L

ClientSampleId :

VP-2DUP

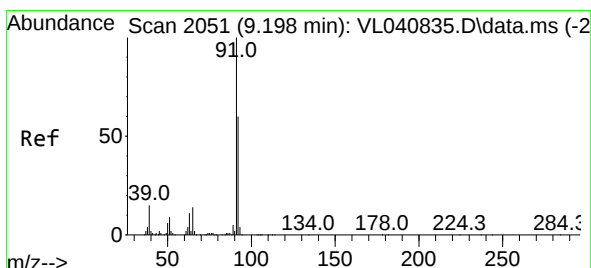
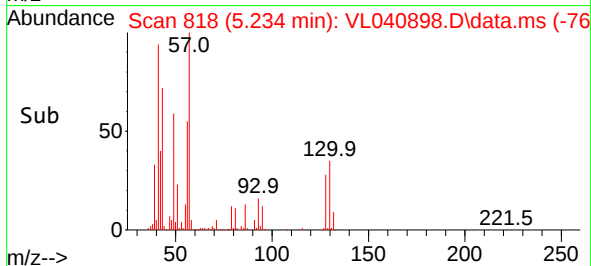
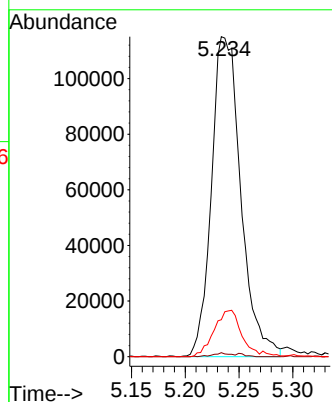
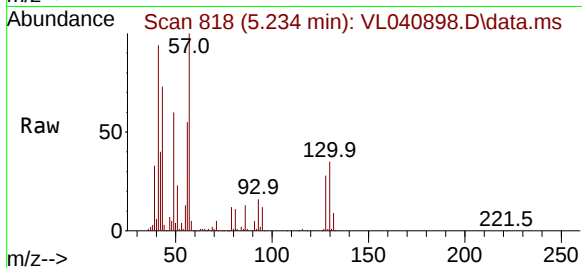
Tgt Ion: 42 Resp: 218068

Ion Ratio Lower Upper

42 100

72 1.0 30.8 46.2#

71 14.2 30.0 45.0#



#53

Toluene

Concen: 0.190 ppbv

RT: 9.233 min Scan# 2062

Delta R.T. 0.010 min

Lab File: VL040898.D

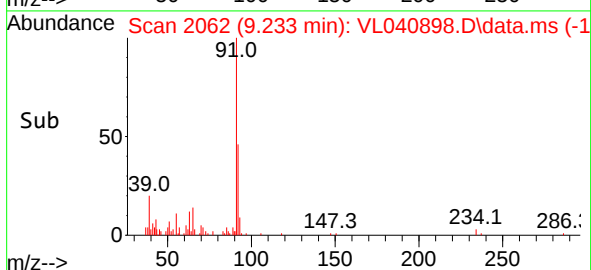
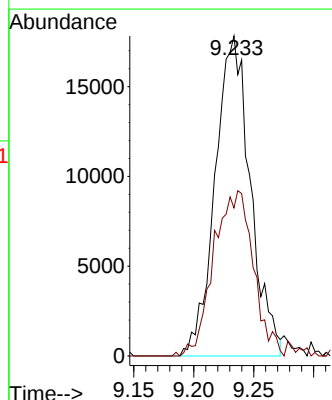
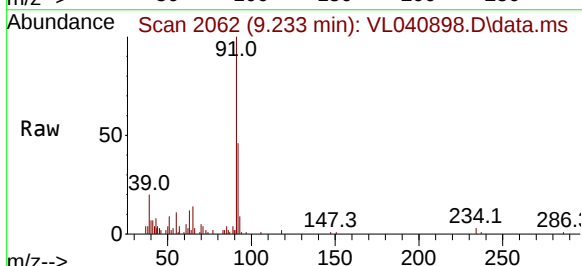
Acq: 17 Nov 2023 17:03

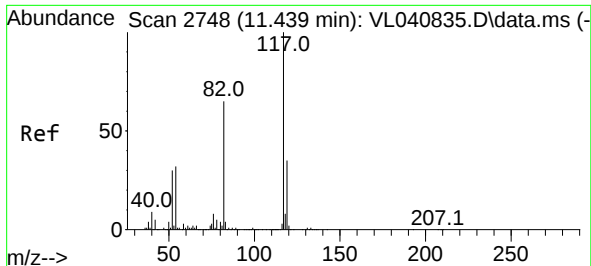
Tgt Ion: 91 Resp: 36350

Ion Ratio Lower Upper

91 100

92 59.9 49.4 74.2

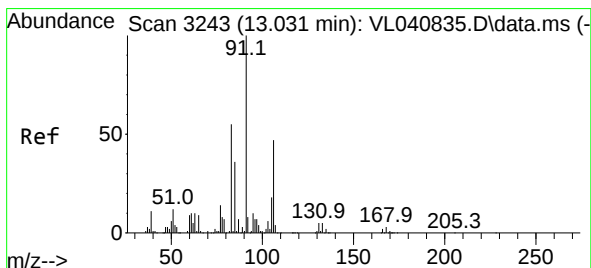
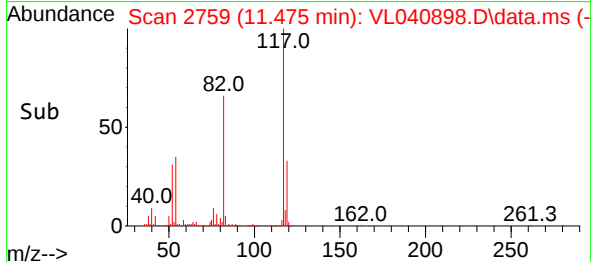
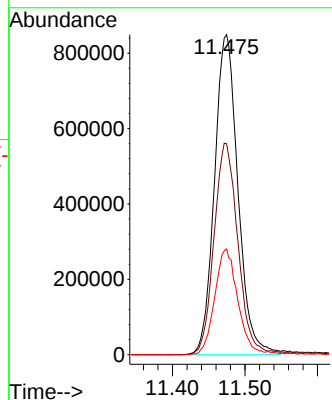
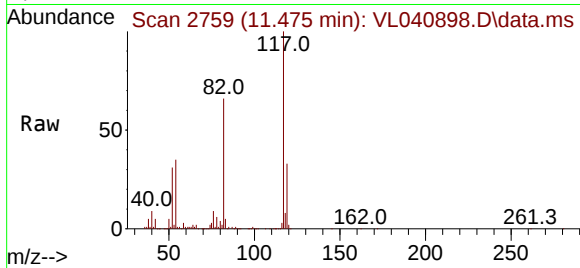




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.475 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL040898.D
Acq: 17 Nov 2023 17:03

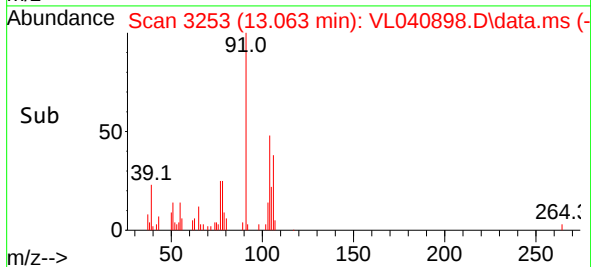
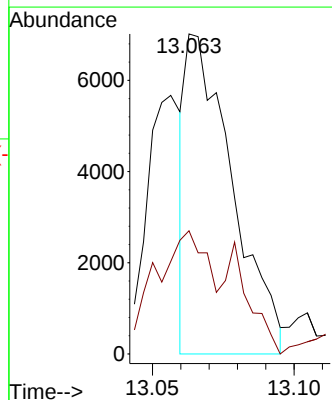
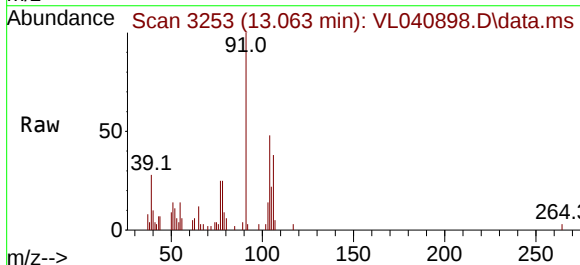
Instrument :
MSVOA_L
ClientSampleId :
VP-2DUP

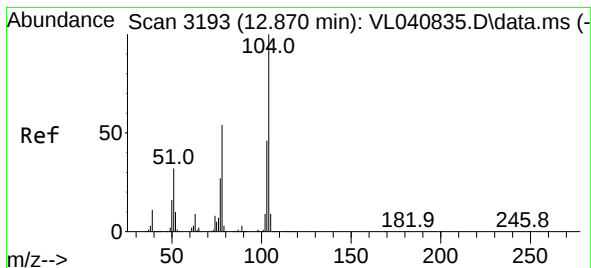
Tgt Ion:117 Resp: 1910541
Ion Ratio Lower Upper
117 100
82 67.7 50.6 75.8
119 32.8 23.3 34.9



#60
o-Xylene
Concen: 0.039 ppbv
RT: 13.063 min Scan# 3253
Delta R.T. 0.010 min
Lab File: VL040898.D
Acq: 17 Nov 2023 17:03

Tgt Ion: 91 Resp: 7981
Ion Ratio Lower Upper
91 100
106 72.2 22.9 68.5#





#61

Styrene

Concen: 7.474 ppbv

RT: 12.905 min Scan# 3193

Delta R.T. 0.013 min

Lab File: VL040898.D

Acq: 17 Nov 2023 17:03

Instrument :

MSVOA_L

ClientSampleId :

VP-2DUP

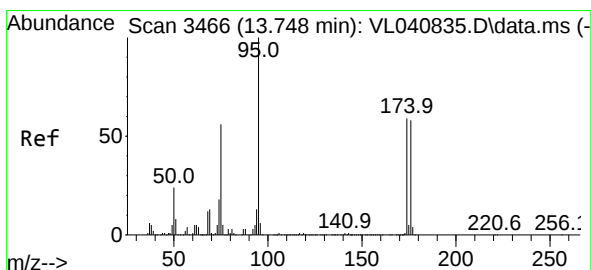
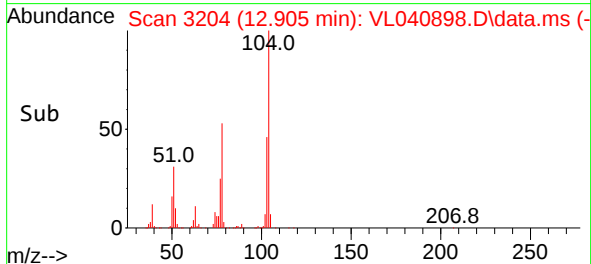
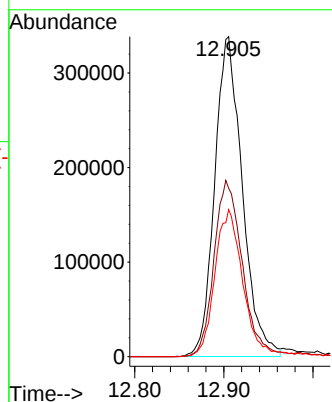
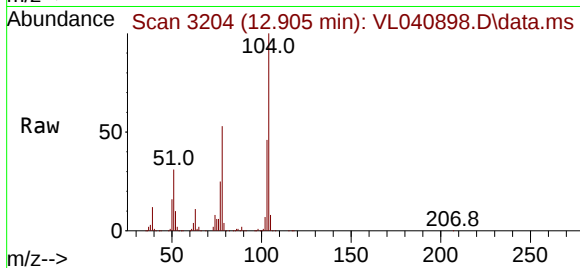
Tgt Ion:104 Resp: 728370

Ion Ratio Lower Upper

104 100

78 58.1 43.3 64.9

103 47.6 37.6 56.4



#68

1-Bromo-4-Fluorobenzene

Concen: 10.398 ppbv

RT: 13.783 min Scan# 3477

Delta R.T. 0.013 min

Lab File: VL040898.D

Acq: 17 Nov 2023 17:03

Tgt Ion: 95 Resp: 1555282

Ion Ratio Lower Upper

95 100

174 61.2 47.5 71.3

175 4.4 3.6 5.4

