

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022723\
 Data File : VL040239.D
 Acq On : 27 Feb 2023 17:12
 Operator : SY/MD
 Sample : 01705-01DL 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 02212023-INFLUENTDL

Quant Time: Feb 28 00:20:41 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL021523AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Feb 28 00:12:21 2023
 Response via : Initial Calibration

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

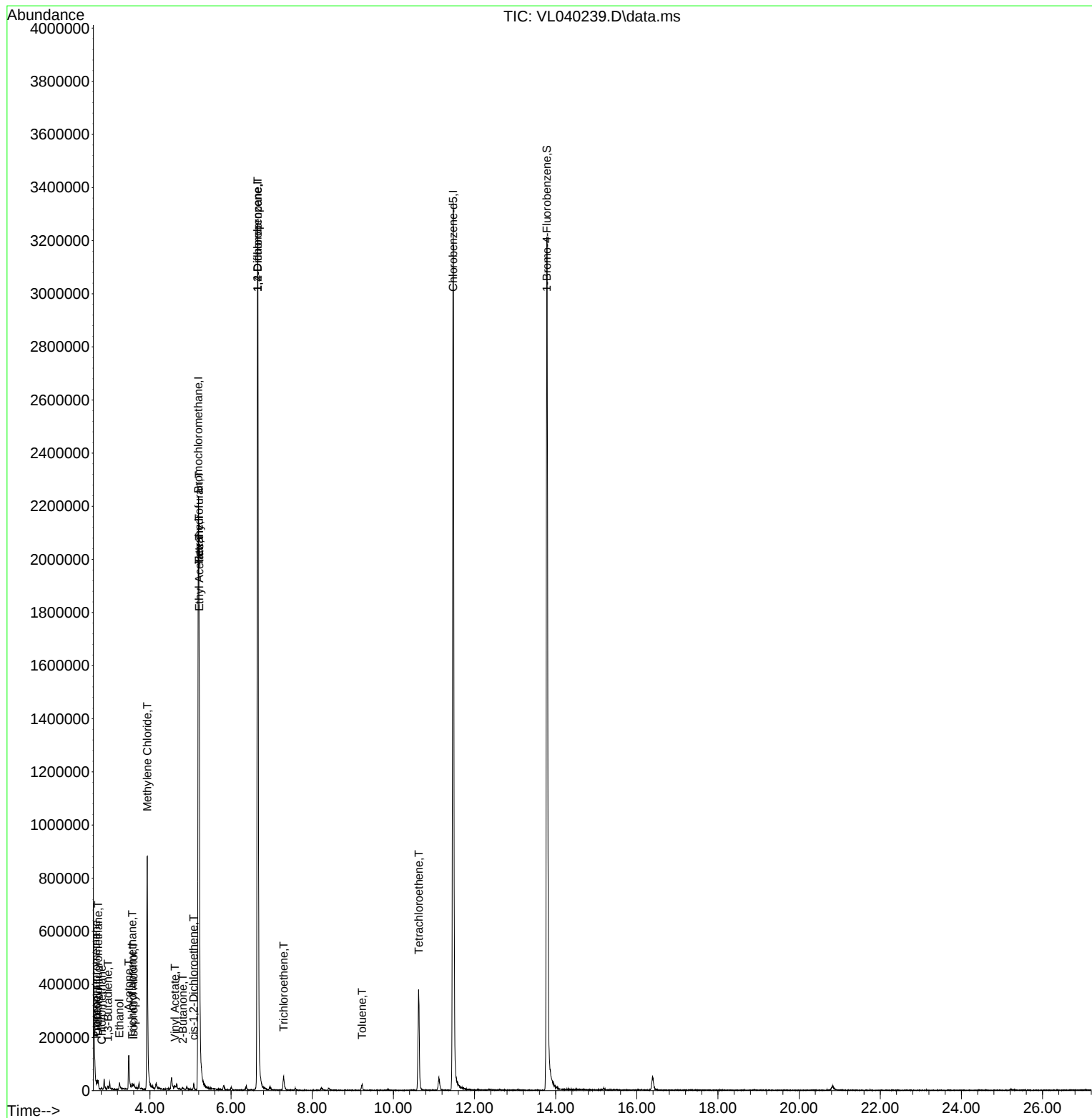
Internal Standards						
1) Bromochloromethane	5.192	49	973772	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.655	114	2418244	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.474	117	2066825	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.783	95	1655639	9.742	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.400%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.726	85	16719	0.092	ppbv #	74
3) Chlorodifluoromethane	2.671	51	14108	0.121	ppbv #	81
4) Chloromethane	2.816	50	3168	0.043	ppbv #	71
9) Propene	2.690	41	2648	0.056	ppbv #	1
11) Trichlorofluoromethane	3.565	101	9775	0.060	ppbv	90
13) Ethanol	3.250	45	23901	5.475	ppbv	90
15) Acetone	3.478	43	123861	1.057	ppbv	97
16) 1,3-Butadiene	2.964	39	3491	0.065	ppbv #	27
19) Isopropyl Alcohol	3.594	45	9131	0.164	ppbv #	52
20) Methylene Chloride	3.935	84	304594	4.991	ppbv	97
23) Vinyl Acetate	4.619	43	1612	0.045	ppbv #	64
25) Ethyl Acetate	5.214	43	308865	1.417	ppbv #	76
26) Hexane	5.211	57	429687	4.593	ppbv #	38
31) cis-1,2-Dichloroethene	5.076	61	9084	0.102	ppbv #	79
34) 2-Butanone	4.812	43	5552	0.047	ppbv #	76
38) Trichloroethene	7.298	130	12725	0.123	ppbv #	90
39) 1,2-Dichloropropane	6.655	63	617370	8.433	ppbv #	25
41) Tetrahydrofuran	5.211	42	170523	2.467	ppbv #	48
52) Tetrachloroethene	10.629	164	82302	1.401	ppbv	94
53) Toluene	9.230	91	9212	0.046	ppbv #	48

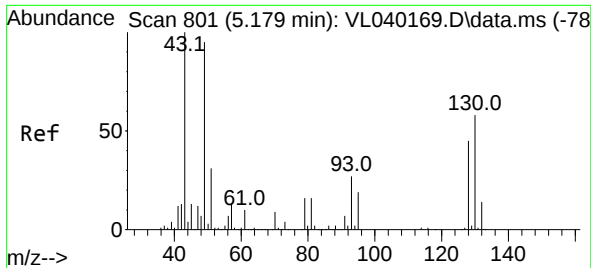
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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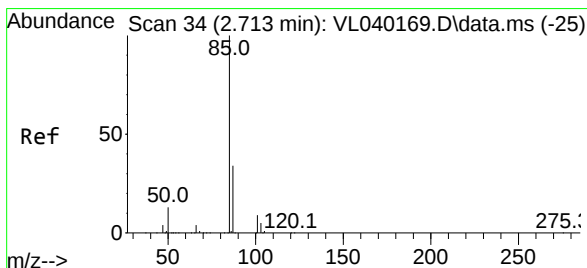
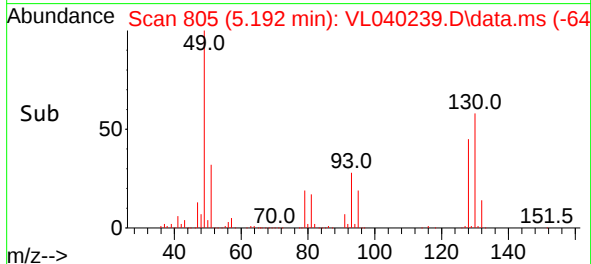
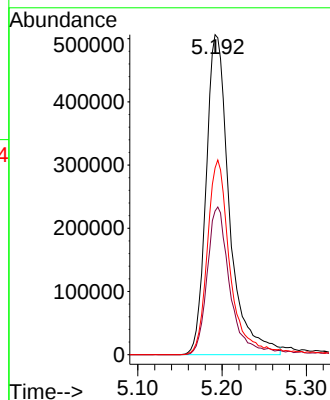
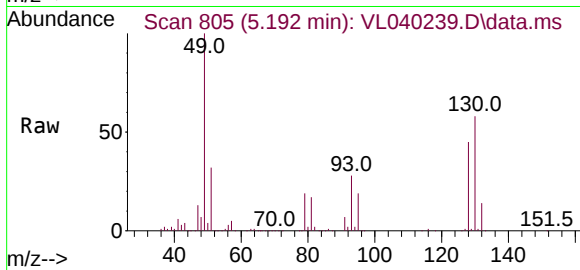




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.192 min Scan# 80
Delta R.T. 0.010 min
Lab File: VL040239.D
Acq: 27 Feb 2023 17:12

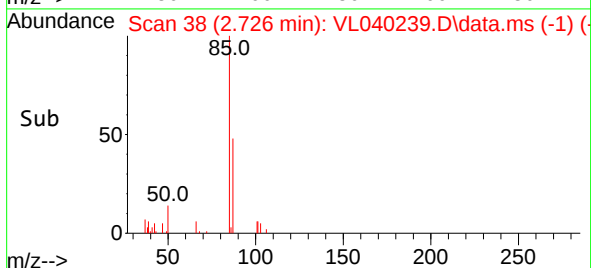
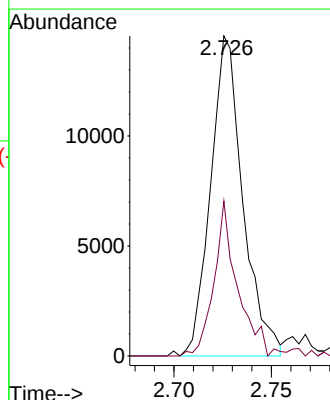
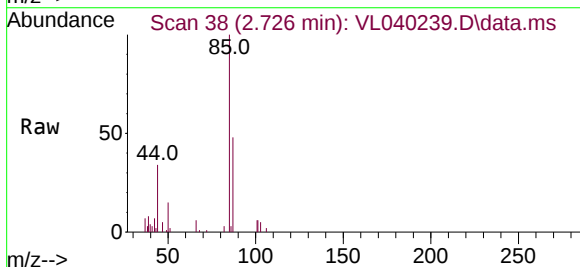
Instrument :
MSVOA_L
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02212023-INFLUENTDL

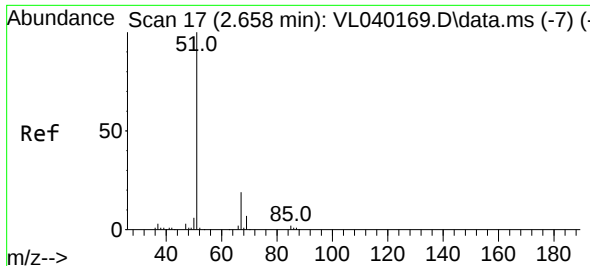
Tgt Ion: 49 Resp: 973772
Ion Ratio Lower Upper
49 100
128 47.2 24.1 72.3
130 61.1 30.9 92.8



#2
Dichlorodifluoromethane
Concen: 0.092 ppbv
RT: 2.726 min Scan# 38
Delta R.T. 0.010 min
Lab File: VL040239.D
Acq: 27 Feb 2023 17:12

Tgt Ion: 85 Resp: 16719
Ion Ratio Lower Upper
85 100
87 48.4 27.0 40.6#

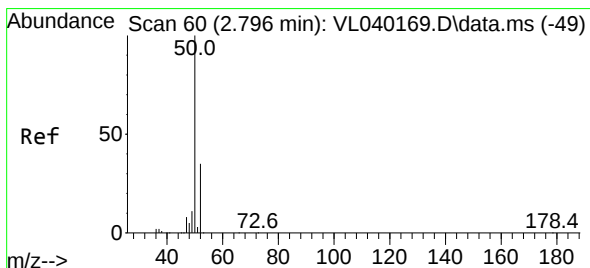
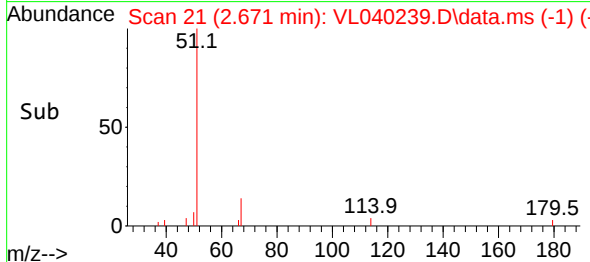
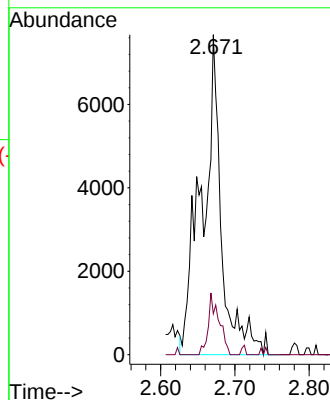
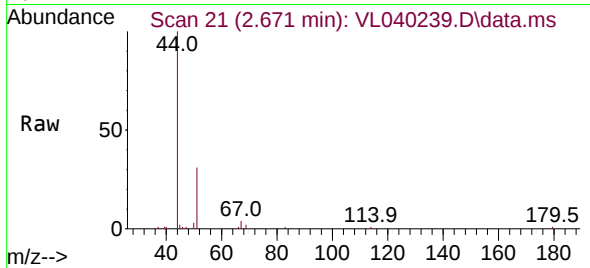




#3
Chlorodifluoromethane
Concen: 0.121 ppbv
RT: 2.671 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL040239.D
Acq: 27 Feb 2023 17:12

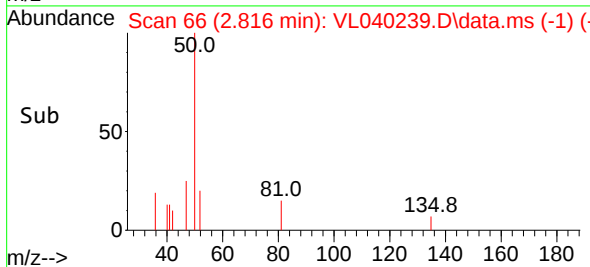
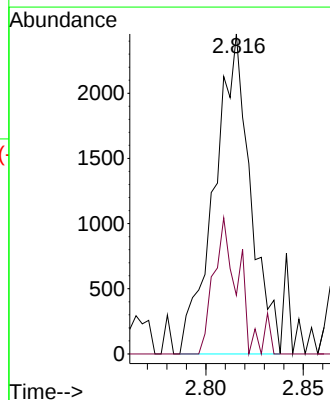
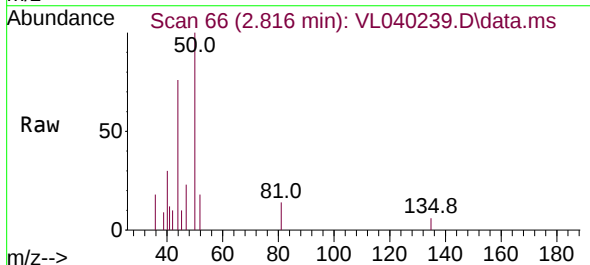
Instrument :
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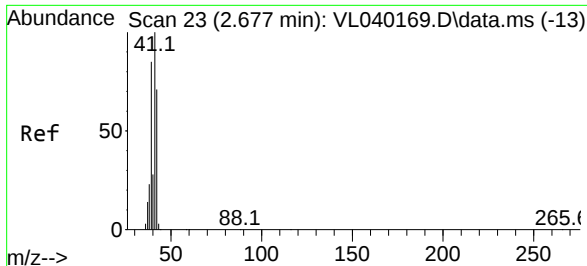
Tgt Ion: 51 Resp: 14108
Ion Ratio Lower Upper
51 100
67 10.6 15.4 23.2#



#4
Chloromethane
Concen: 0.043 ppbv
RT: 2.816 min Scan# 66
Delta R.T. 0.019 min
Lab File: VL040239.D
Acq: 27 Feb 2023 17:12

Tgt Ion: 50 Resp: 3168
Ion Ratio Lower Upper
50 100
52 18.3 28.3 42.5#





#9

Propene

Concen: 0.056 ppbv

RT: 2.690 min Scan# 21

Delta R.T. 0.010 min

Lab File: VL040239.D

Acq: 27 Feb 2023 17:12

Instrument :

MSVOA_L

ClientSampleId :

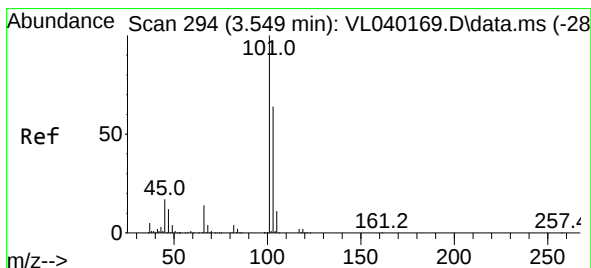
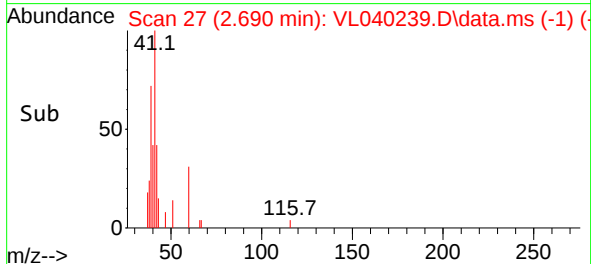
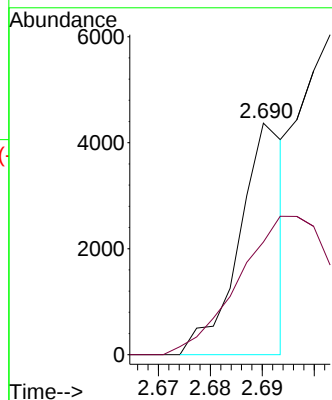
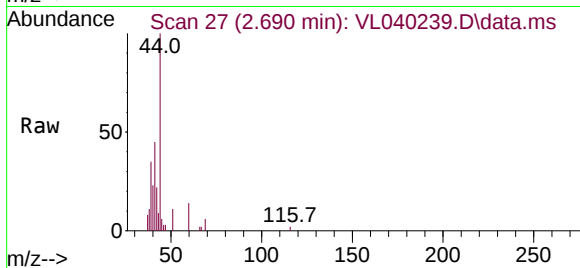
02212023-INFLUENTDL

Tgt Ion: 41 Resp: 2648

Ion Ratio Lower Upper

41 100

42 177.8 56.9 85.3#



#11

Trichlorofluoromethane

Concen: 0.060 ppbv

RT: 3.565 min Scan# 299

Delta R.T. 0.016 min

Lab File: VL040239.D

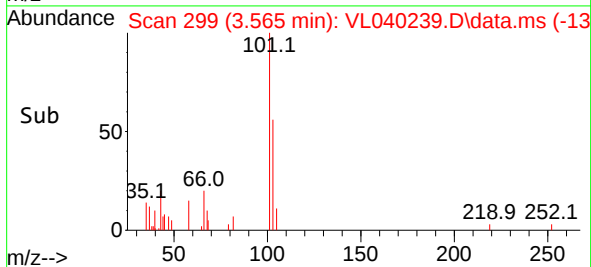
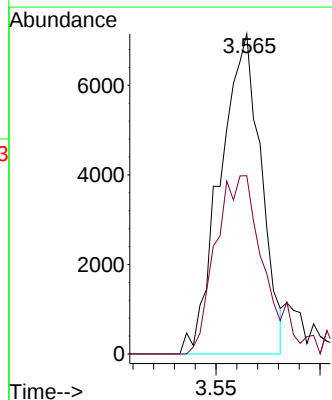
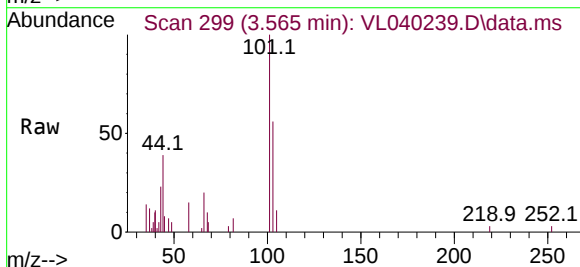
Acq: 27 Feb 2023 17:12

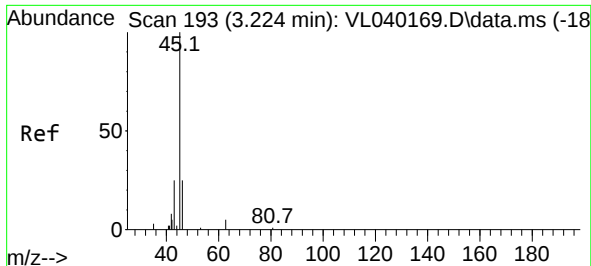
Tgt Ion:101 Resp: 9775

Ion Ratio Lower Upper

101 100

103 55.7 51.0 76.6

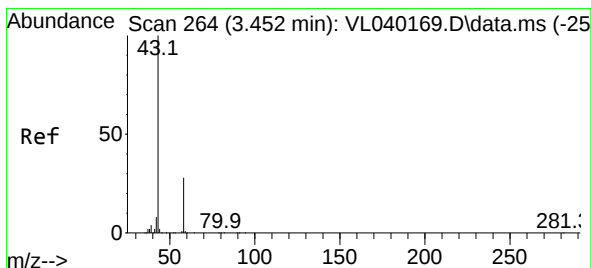
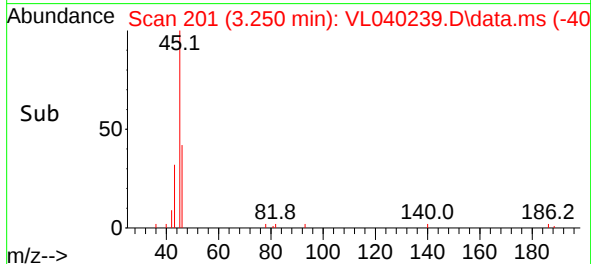
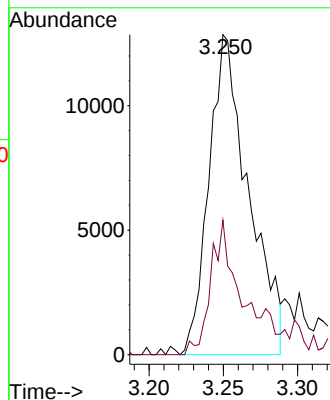
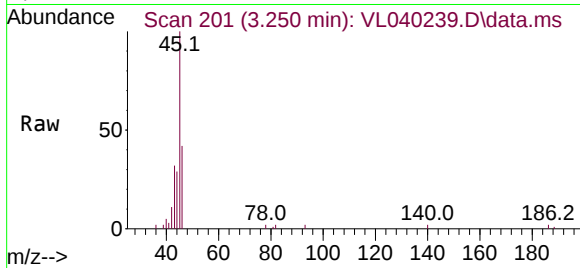




#13
Ethanol
Concen: 5.475 ppbv
RT: 3.250 min Scan# 201
Delta R.T. 0.016 min
Lab File: VL040239.D
Acq: 27 Feb 2023 17:12

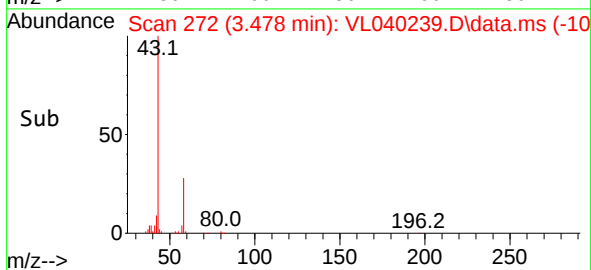
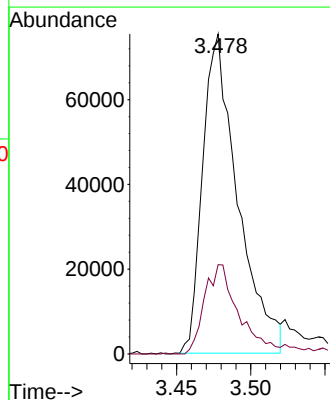
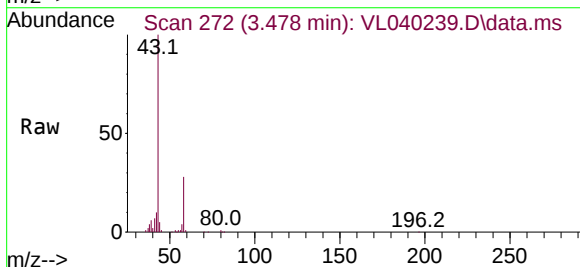
Instrument :
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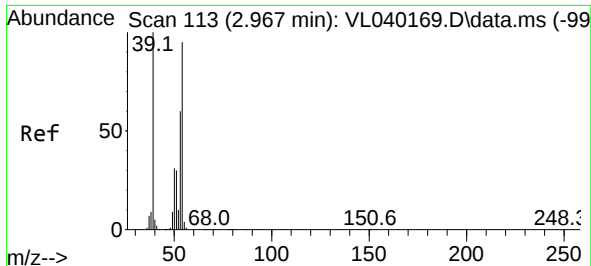
Tgt Ion: 45 Resp: 23901
Ion Ratio Lower Upper
45 100
46 38.8 13.3 53.1



#15
Acetone
Concen: 1.057 ppbv
RT: 3.478 min Scan# 272
Delta R.T. 0.023 min
Lab File: VL040239.D
Acq: 27 Feb 2023 17:12

Tgt Ion: 43 Resp: 123861
Ion Ratio Lower Upper
43 100
58 29.7 22.4 33.6





#16

1,3-Butadiene

Concen: 0.065 ppbv

RT: 2.964 min Scan# 11

Delta R.T. -0.006 min

Lab File: VL040239.D

Acq: 27 Feb 2023 17:12

Instrument :

MSVOA_L

ClientSampleId :

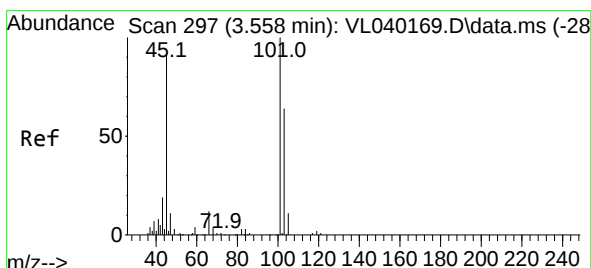
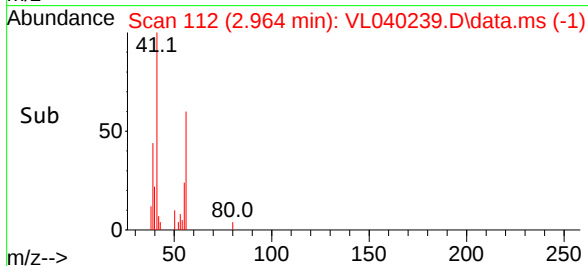
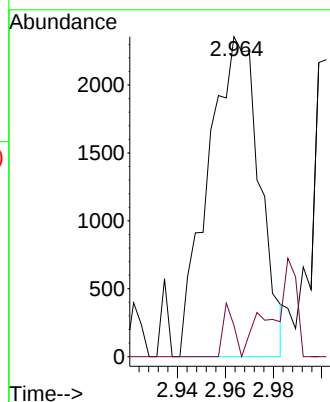
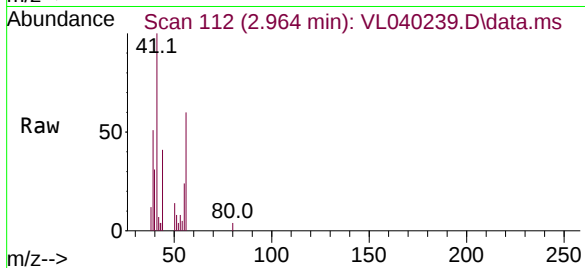
02212023-INFLUENTDL

Tgt Ion: 39 Resp: 3491

Ion Ratio Lower Upper

39 100

54 17.8 66.7 100.1#



#19

Isopropyl Alcohol

Concen: 0.164 ppbv

RT: 3.594 min Scan# 308

Delta R.T. 0.029 min

Lab File: VL040239.D

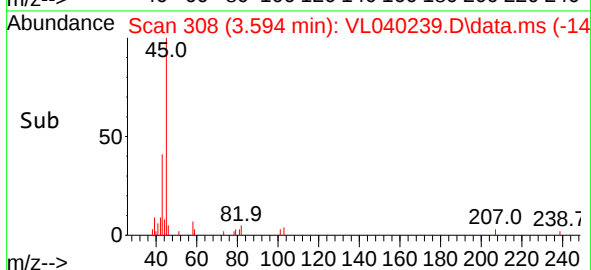
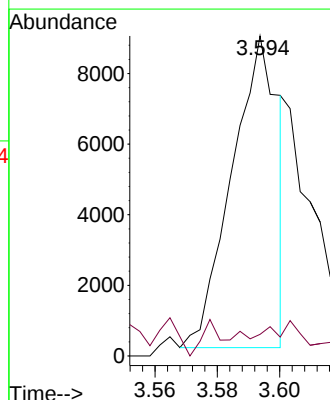
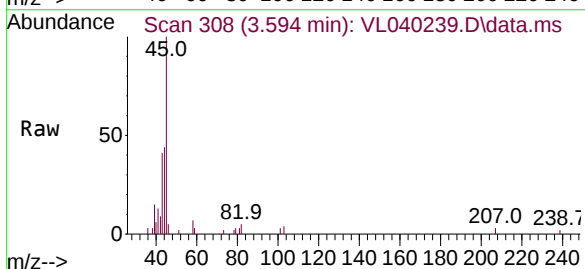
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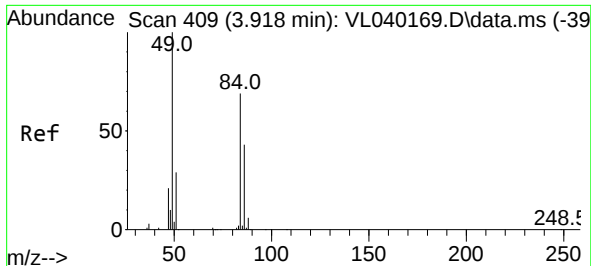
Tgt Ion: 45 Resp: 9131

Ion Ratio Lower Upper

45 100

58 19.2 2.6 3.8#



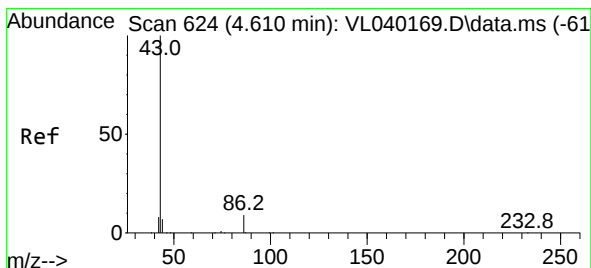
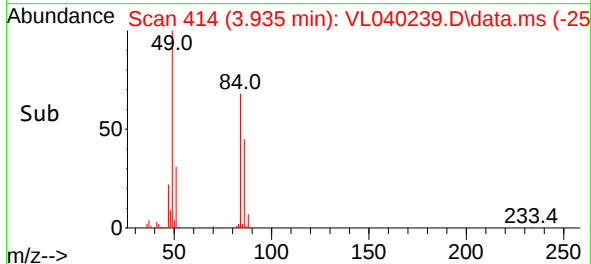
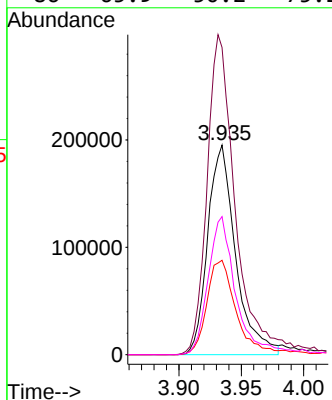
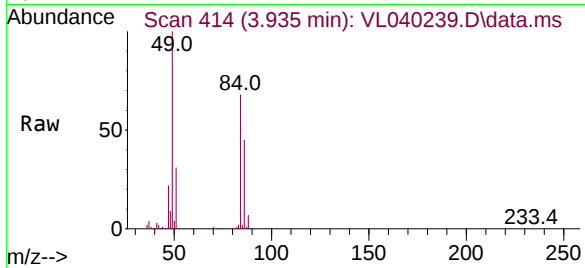


#20
Methylene Chloride
Concen: 4.991 ppbv
RT: 3.935 min Scan# 414
Delta R.T. 0.013 min
Lab File: VL040239.D
Acq: 27 Feb 2023 17:12

Instrument :
MSVOA_L
ClientSampleId :
02212023-INFLUENTDL

Tgt Ion: 84 Resp: 304594

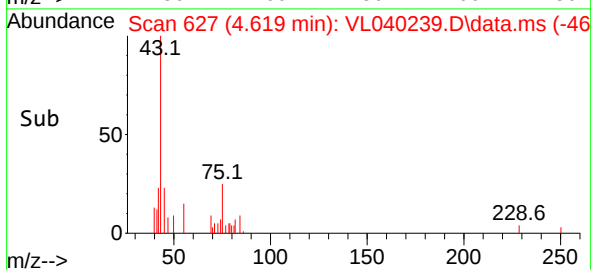
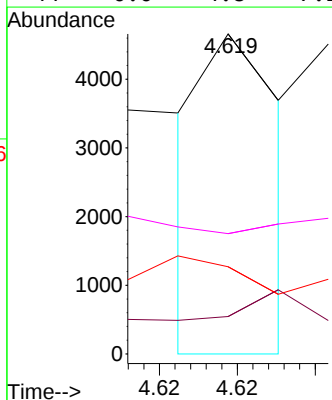
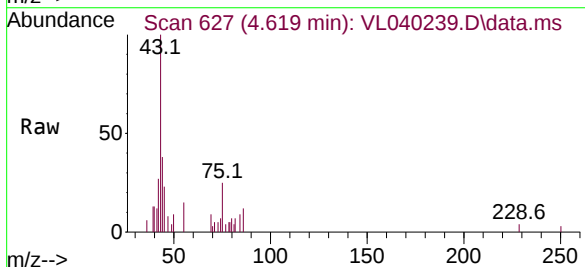
Ion	Ratio	Lower	Upper
84	100		
49	146.4	115.5	173.3
51	45.0	33.1	49.7
86	65.9	50.2	75.2

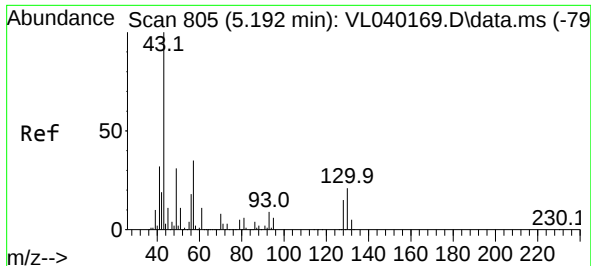


#23
Vinyl Acetate
Concen: 0.045 ppbv
RT: 4.619 min Scan# 627
Delta R.T. 0.006 min
Lab File: VL040239.D
Acq: 27 Feb 2023 17:12

Tgt Ion: 43 Resp: 1612

Ion	Ratio	Lower	Upper
43	100		
86	4.9	5.6	8.4#
42	34.8	7.6	11.4#
44	0.0	4.8	7.2#

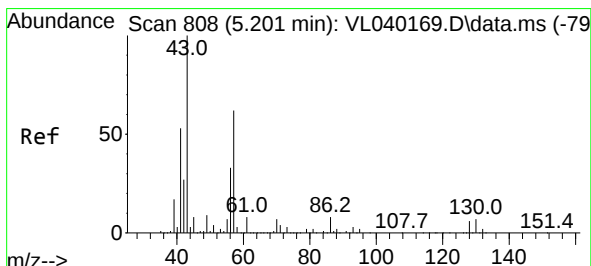
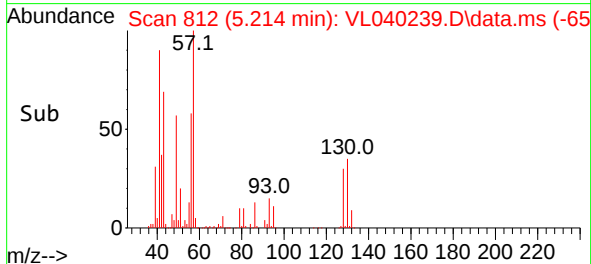
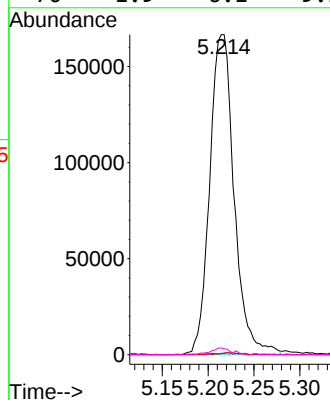
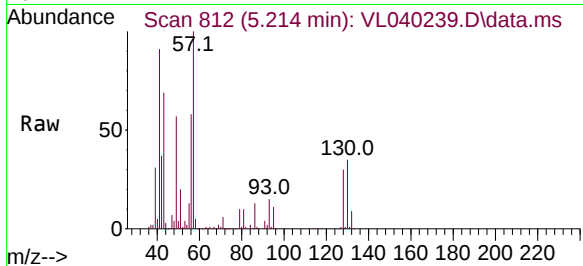




#25
Ethyl Acetate
Concen: 1.417 ppbv
RT: 5.214 min Scan# 811
Delta R.T. 0.019 min
Lab File: VL040239.D
Acq: 27 Feb 2023 17:12

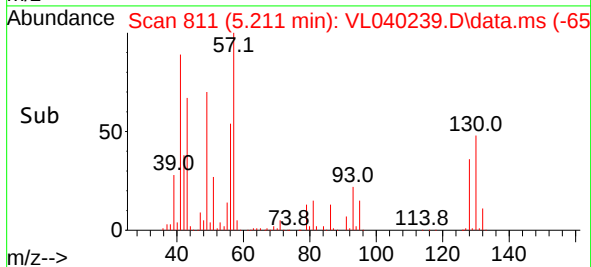
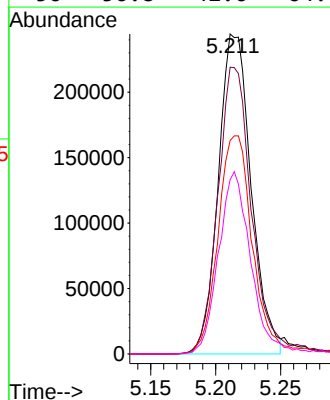
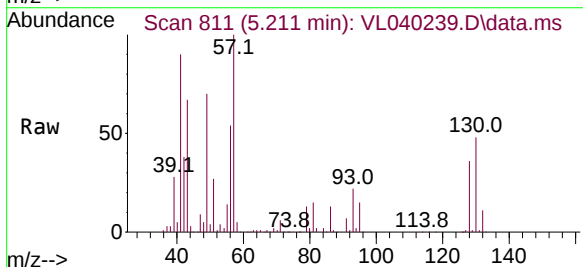
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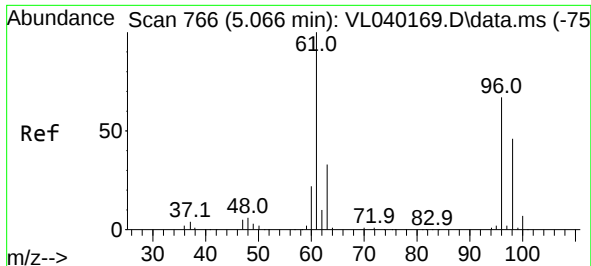
Tgt Ion: 43 Resp: 308865
Ion Ratio Lower Upper
43 100
45 0.7 8.3 12.5#
61 0.5 8.4 12.6#
70 1.9 6.1 9.1#



#26
Hexane
Concen: 4.593 ppbv
RT: 5.211 min Scan# 811
Delta R.T. 0.006 min
Lab File: VL040239.D
Acq: 27 Feb 2023 17:12

Tgt Ion: 57 Resp: 429687
Ion Ratio Lower Upper
57 100
41 93.8 74.3 111.5
43 72.8 193.0 289.4#
56 56.8 42.6 64.0

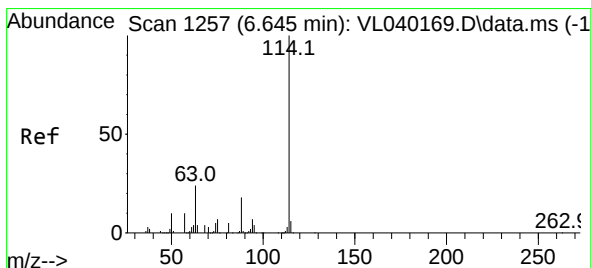
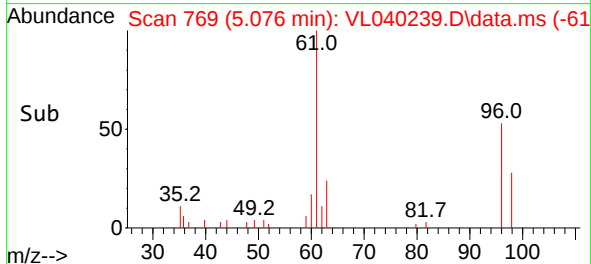
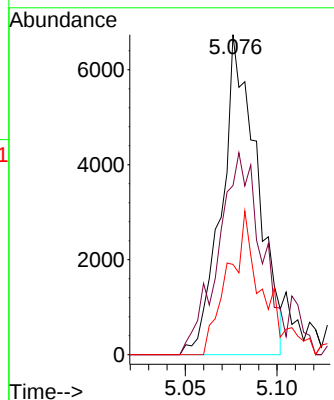
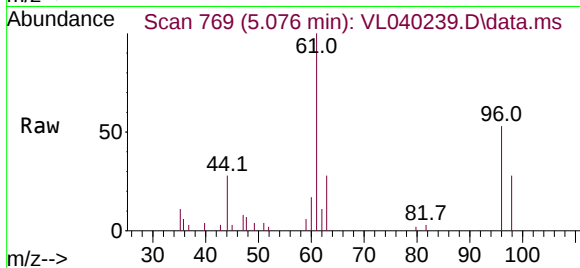




#31
 cis-1,2-Dichloroethene
 Concen: 0.102 ppbv
 RT: 5.076 min Scan# 766
 Delta R.T. 0.006 min
 Lab File: VL040239.D
 Acq: 27 Feb 2023 17:12

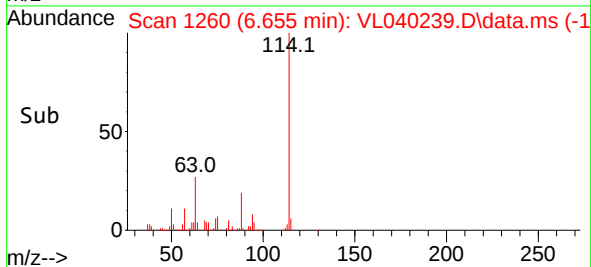
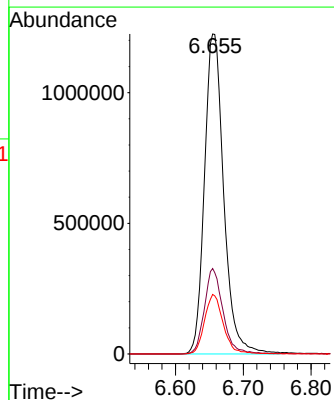
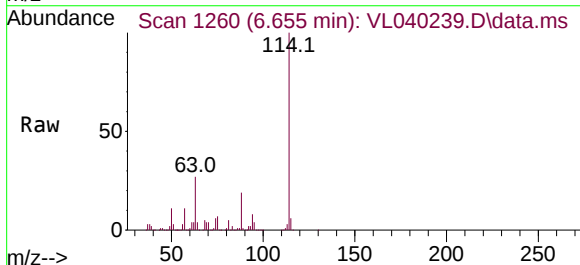
Instrument :
 MSVOA_L
 ClientSampleId :
 02212023-INFLUENTDL

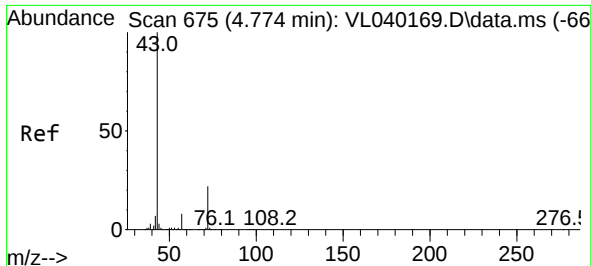
Tgt Ion: 61 Resp: 9084
 Ion Ratio Lower Upper
 61 100
 96 52.8 53.7 80.5#
 98 28.2 36.4 54.6#



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 6.655 min Scan# 1260
 Delta R.T. 0.006 min
 Lab File: VL040239.D
 Acq: 27 Feb 2023 17:12

Tgt Ion: 114 Resp: 2418244
 Ion Ratio Lower Upper
 114 100
 63 25.9 20.4 30.6
 88 18.2 14.3 21.5

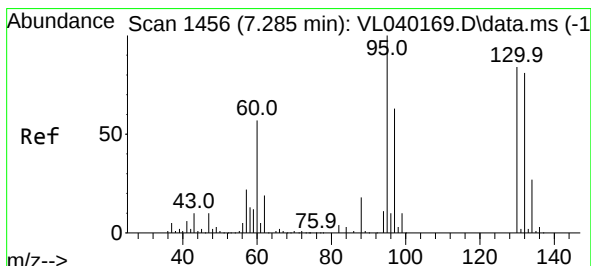
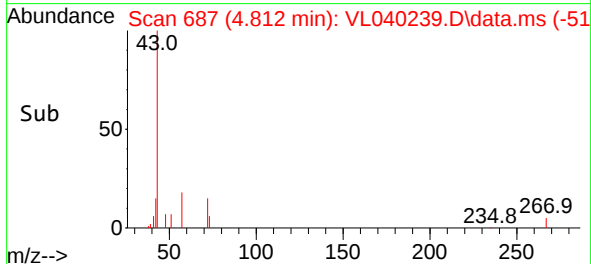
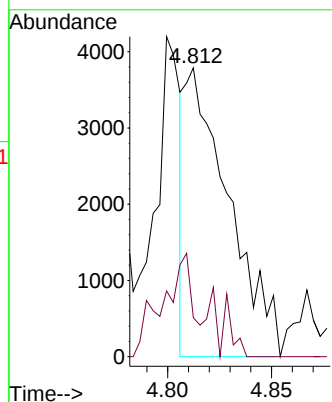
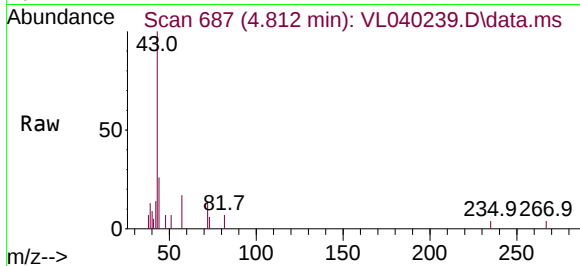




#34
2-Butanone
Concen: 0.047 ppbv
RT: 4.812 min Scan# 61
Delta R.T. 0.039 min
Lab File: VL040239.D
Acq: 27 Feb 2023 17:12

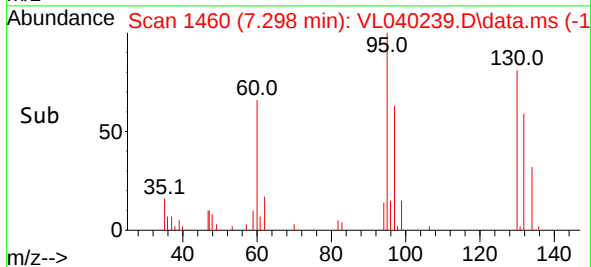
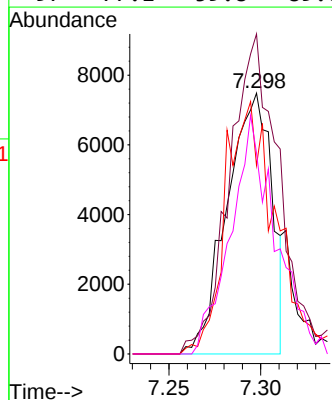
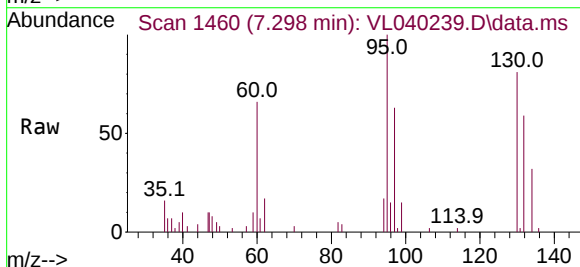
Instrument :
MSVOA_L
ClientSampleId :
02212023-INFLUENTDL

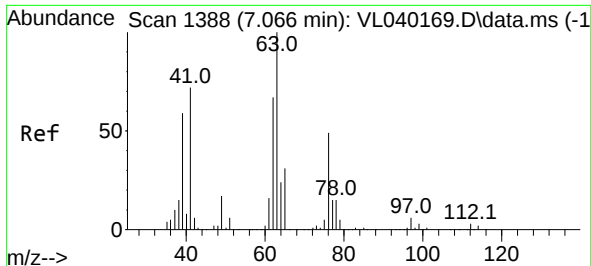
Tgt Ion: 43 Resp: 5552
Ion Ratio Lower Upper
43 100
72 33.9 17.8 26.8#



#38
Trichloroethene
Concen: 0.123 ppbv
RT: 7.298 min Scan# 1460
Delta R.T. 0.010 min
Lab File: VL040239.D
Acq: 27 Feb 2023 17:12

Tgt Ion:130 Resp: 12725
Ion Ratio Lower Upper
130 100
95 122.7 94.7 142.1
132 72.3 76.4 114.6#
97 77.1 59.8 89.6





#39

1,2-Dichloropropane

Concen: 8.433 ppbv

RT: 6.655 min Scan# 11

Delta R.T. -0.415 min

Lab File: VL040239.D

Acq: 27 Feb 2023 17:12

Instrument :

MSVOA_L

ClientSampleId :

02212023-INFLUENTDL

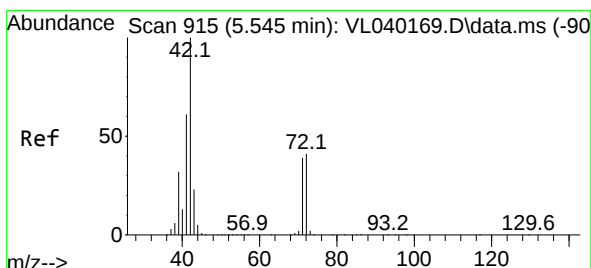
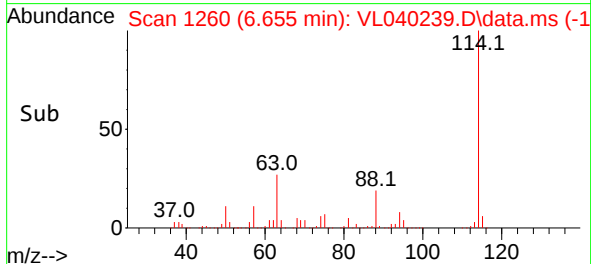
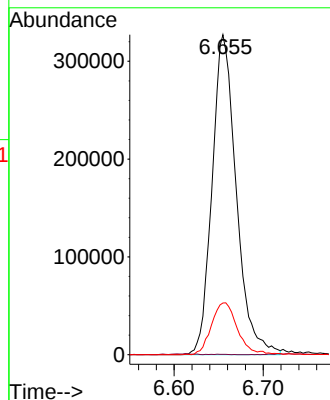
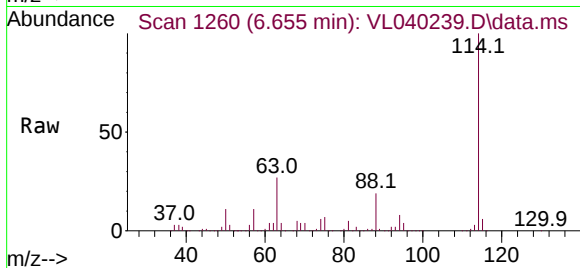
Tgt Ion: 63 Resp: 617370

Ion Ratio Lower Upper

63 100

41 0.0 57.6 86.4#

62 16.1 54.0 81.0#



#41

Tetrahydrofuran

Concen: 2.467 ppbv

RT: 5.211 min Scan# 811

Delta R.T. -0.338 min

Lab File: VL040239.D

Acq: 27 Feb 2023 17:12

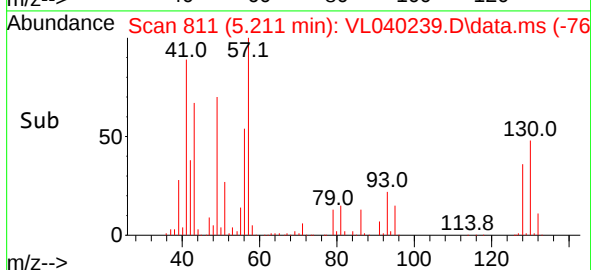
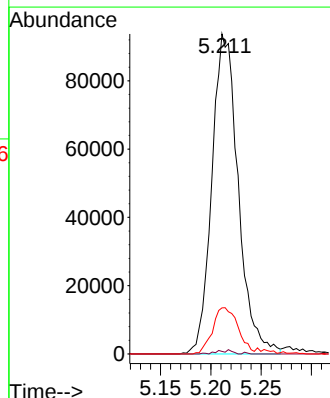
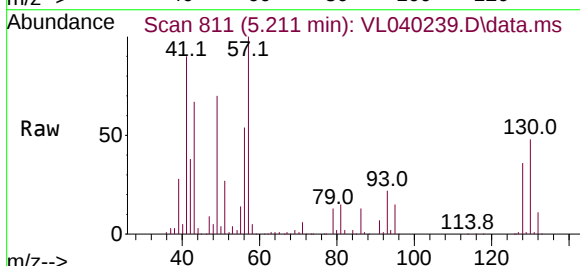
Tgt Ion: 42 Resp: 170523

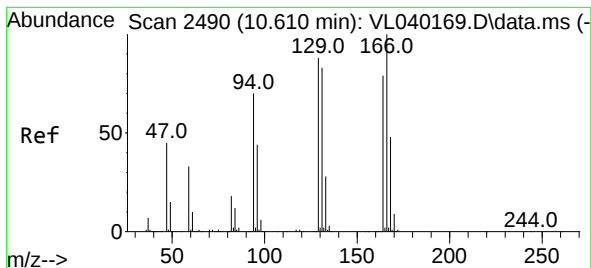
Ion Ratio Lower Upper

42 100

72 0.8 33.0 49.4#

71 15.0 31.4 47.2#





#52

Tetrachloroethene

Concen: 1.401 ppbv

RT: 10.629 min Scan# 2496

Delta R.T. 0.010 min

Lab File: VL040239.D

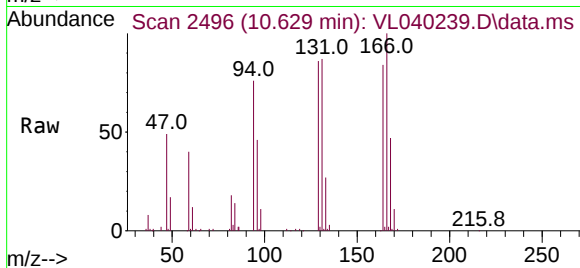
Acq: 27 Feb 2023 17:12

Instrument :

MSVOA_L

ClientSampleId :

02212023-INFLUENTDL



Tgt Ion:164 Resp: 82302

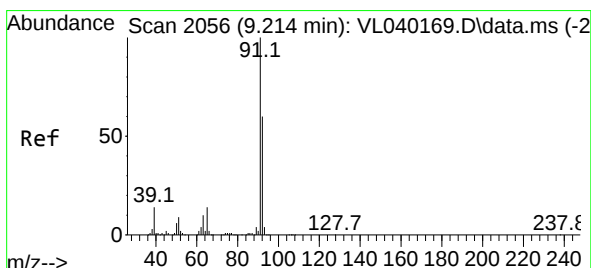
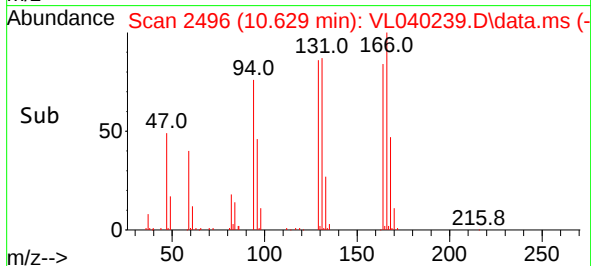
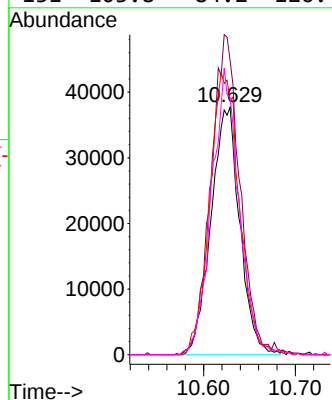
Ion Ratio Lower Upper

164 100

166 118.9 101.5 152.3

129 102.6 89.0 133.4

131 103.8 84.2 126.4



#53

Toluene

Concen: 0.046 ppbv

RT: 9.230 min Scan# 2061

Delta R.T. 0.013 min

Lab File: VL040239.D

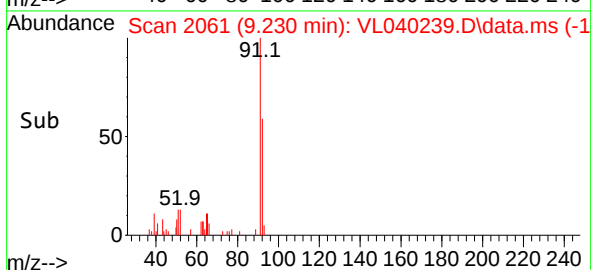
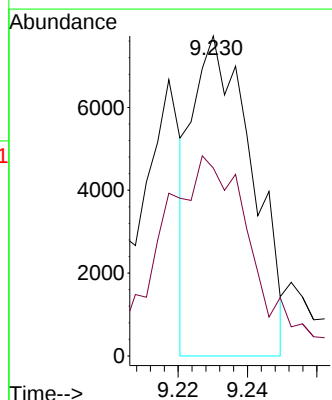
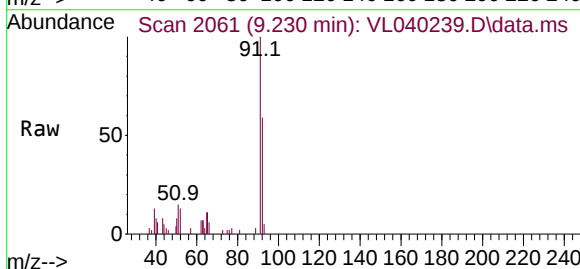
Acq: 27 Feb 2023 17:12

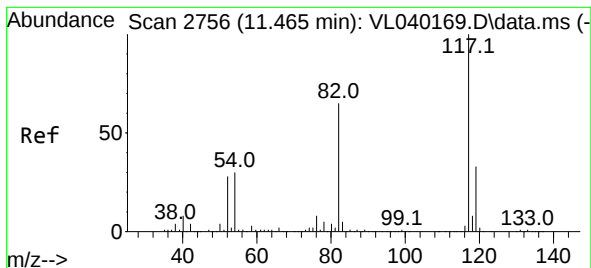
Tgt Ion: 91 Resp: 9212

Ion Ratio Lower Upper

91 100

92 100.5 48.9 73.3#

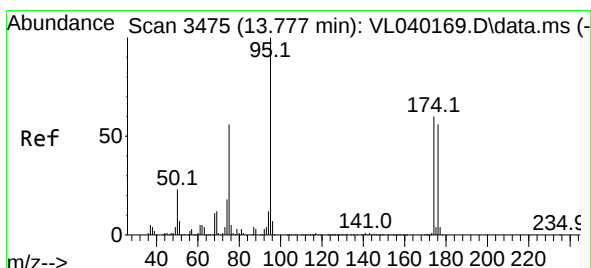
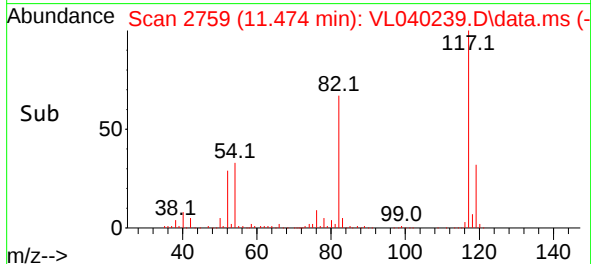
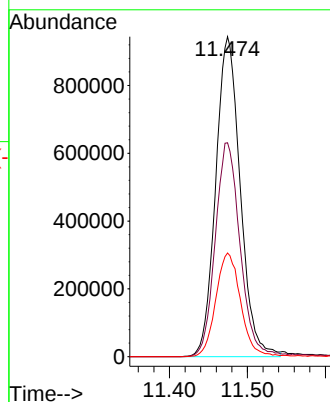
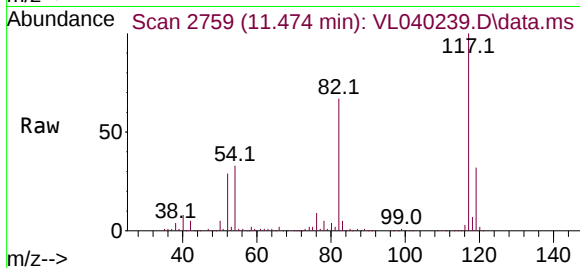




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.474 min Scan# 21
Delta R.T. 0.007 min
Lab File: VL040239.D
Acq: 27 Feb 2023 17:12

Instrument :
MSVOA_L
ClientSampleId :
02212023-INFLUENTDL

Tgt Ion:117 Resp: 2066825
Ion Ratio Lower Upper
117 100
82 69.0 53.3 79.9
119 33.0 24.6 37.0



#68
1-Bromo-4-Fluorobenzene
Concen: 9.742 ppbv
RT: 13.783 min Scan# 3477
Delta R.T. 0.006 min
Lab File: VL040239.D
Acq: 27 Feb 2023 17:12

Tgt Ion: 95 Resp: 1655639
Ion Ratio Lower Upper
95 100
174 58.2 48.2 72.2
175 4.1 3.4 5.2

