

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051123\
 Data File : VL040405.D
 Acq On : 11 May 2023 18:03
 Operator : SY/MD
 Sample : 02748-01DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-04-20230510

Quant Time: May 12 05:55:39 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041323AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Apr 13 14:37:02 2023
 Response via : Initial Calibration

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

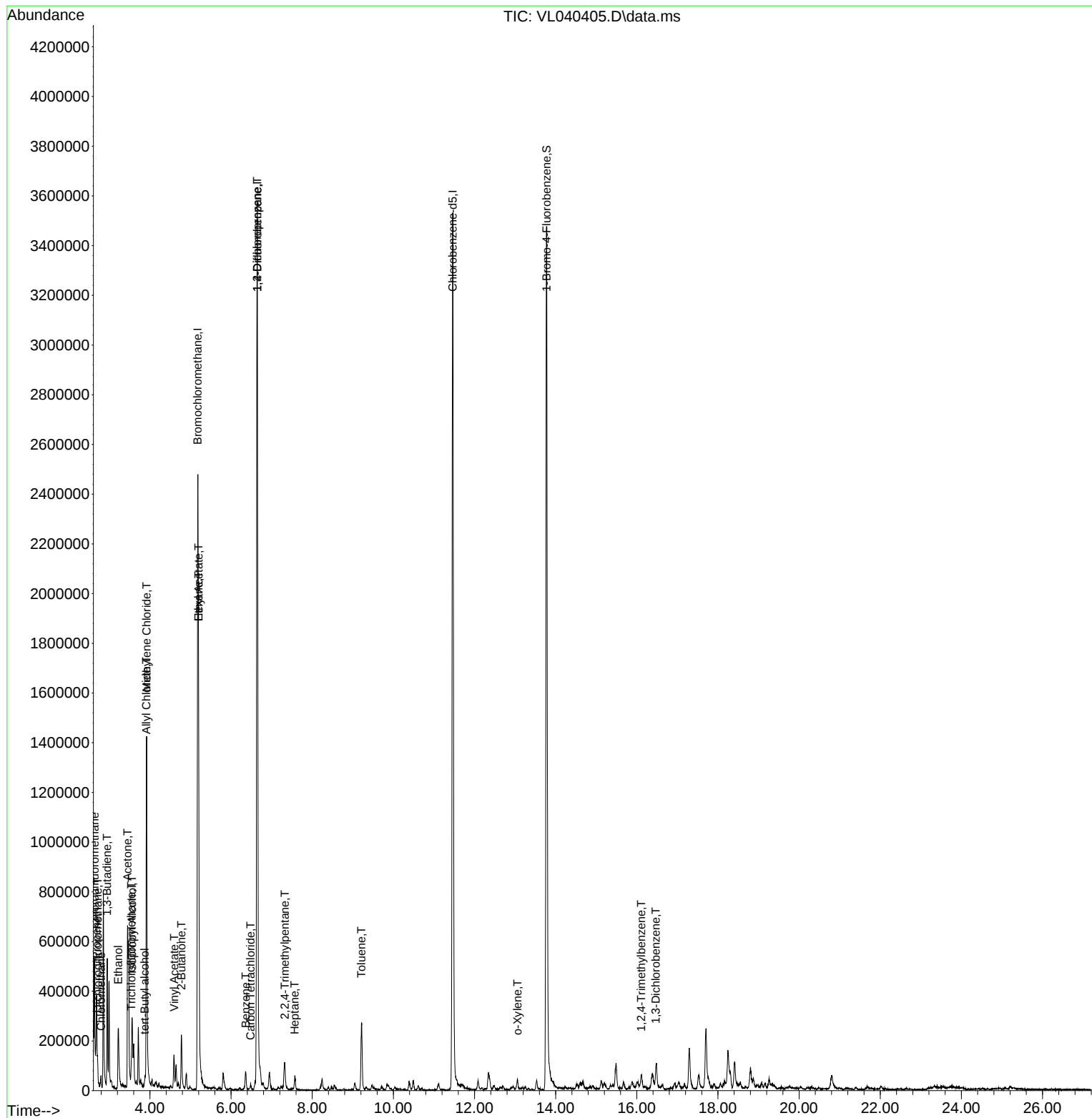
Internal Standards						
1) Bromochloromethane	5.179	49	1060130	10.000	ppbv	-0.01
33) 1,4-Difluorobenzene	6.645	114	2660669	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.462	117	2272036	10.000	ppbv	-0.01
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.777	95	1725280	9.183	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	91.800%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.710	85	57272	0.300	ppbv	99
3) Chlorodifluoromethane	2.636	51	204580	1.477	ppbv #	70
4) Chloromethane	2.796	50	32938	0.376	ppbv	96
9) Propene	2.681	41	91383	1.670	ppbv	87
10) Heptane	7.565	43	7279	0.059	ppbv #	1
11) Trichlorofluoromethane	3.542	101	33111	0.171	ppbv	100
13) Ethanol	3.218	45	298326	65.298	ppbv	98
15) Acetone	3.449	43	772862	5.147	ppbv	92
16) 1,3-Butadiene	2.944	39	136037	2.189	ppbv #	16
17) tert-Butyl alcohol	3.874	59	24984	0.181	ppbv #	72
19) Isopropyl Alcohol	3.562	45	275485	4.021	ppbv #	98
20) Methylene Chloride	3.919	84	492066	8.208	ppbv	96
21) Allyl Chloride	3.912	41	15271	0.179	ppbv #	32
23) Vinyl Acetate	4.597	43	27909	0.730	ppbv #	1
25) Ethyl Acetate	5.198	43	280640	1.111	ppbv #	79
26) Hexane	5.198	57	403158	3.785	ppbv #	38
34) 2-Butanone	4.777	43	245594	1.712	ppbv	99
35) Carbon Tetrachloride	6.478	117	7662	0.041	ppbv #	63
36) Benzene	6.362	78	54633	0.252	ppbv #	91
39) 1,2-Dichloropropane	6.642	63	682145	7.986	ppbv #	25
44) 2,2,4-Trimethylpentane	7.324	57	37125	0.102	ppbv #	1
53) Toluene	9.214	91	189500	0.823	ppbv	96
60) o-Xylene	13.060	91	14646	0.059	ppbv #	32
74) 1,2,4-Trimethylbenzene	16.105	105	32182	0.112	ppbv #	65
75) 1,3-Dichlorobenzene	16.468	146	7795	0.049	ppbv #	30

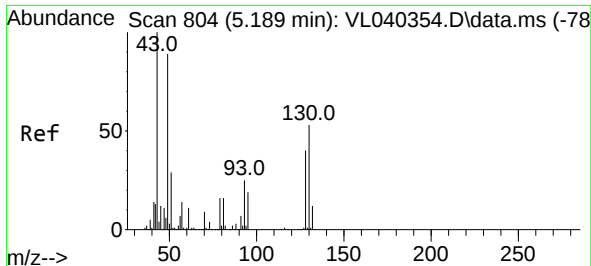
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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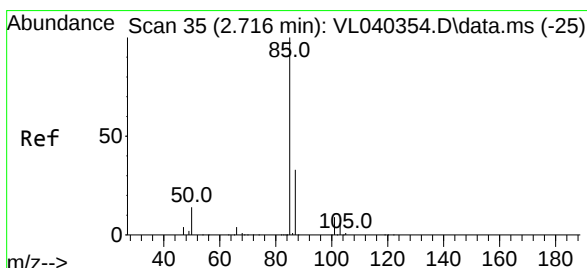
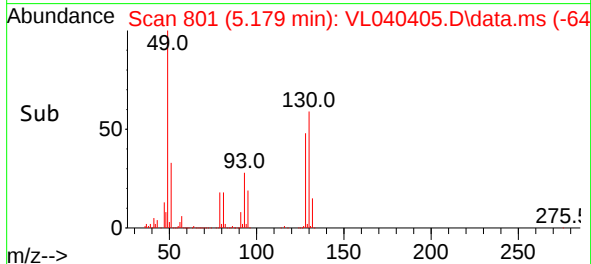
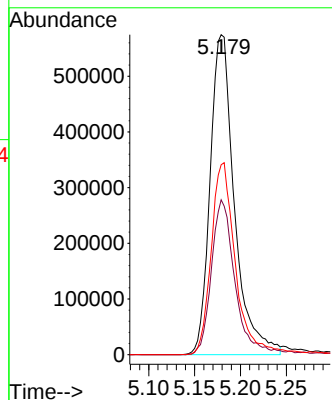
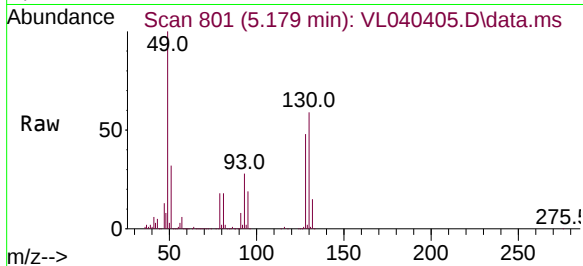




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.179 min Scan# 80
 Delta R.T. -0.010 min
 Lab File: VL040405.D
 Acq: 11 May 2023 18:03

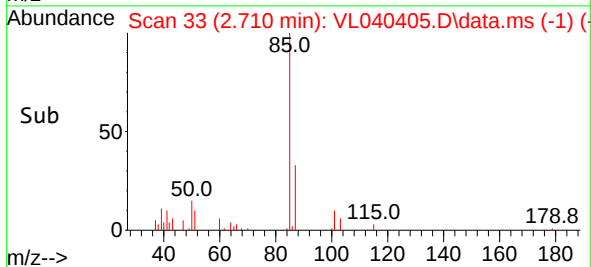
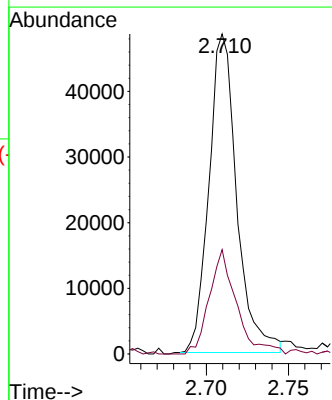
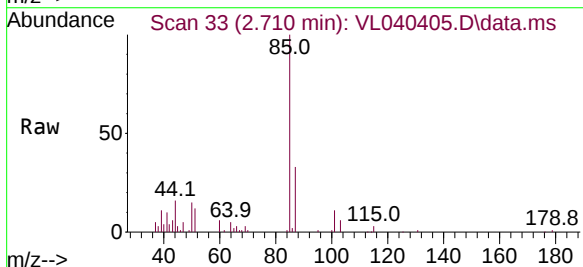
Instrument :
 MSVOA_L
 ClientSampleId :
 SV-04-20230510

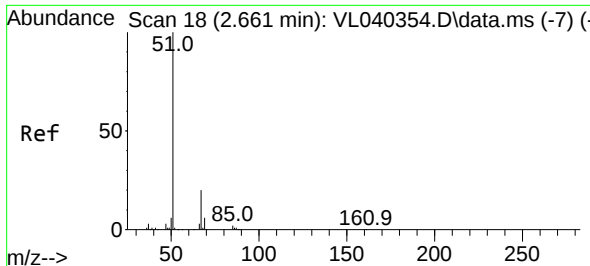
Tgt Ion: 49 Resp: 1060130
 Ion Ratio Lower Upper
 49 100
 128 48.1 23.7 71.1
 130 61.4 29.9 89.8



#2
 Dichlorodifluoromethane
 Concen: 0.300 ppbv
 RT: 2.710 min Scan# 33
 Delta R.T. -0.006 min
 Lab File: VL040405.D
 Acq: 11 May 2023 18:03

Tgt Ion: 85 Resp: 57272
 Ion Ratio Lower Upper
 85 100
 87 32.7 26.6 40.0

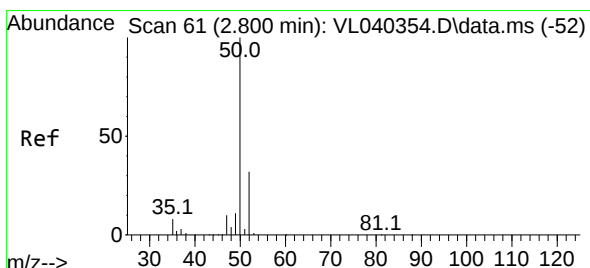
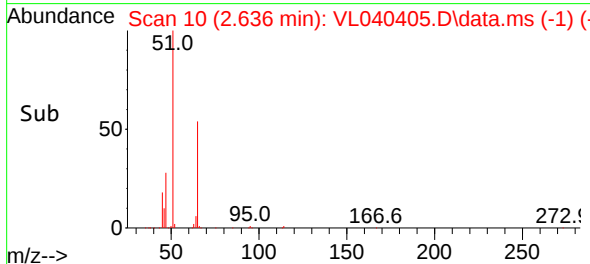
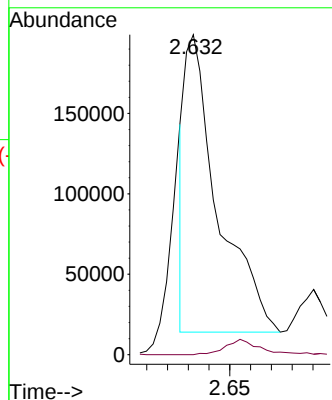
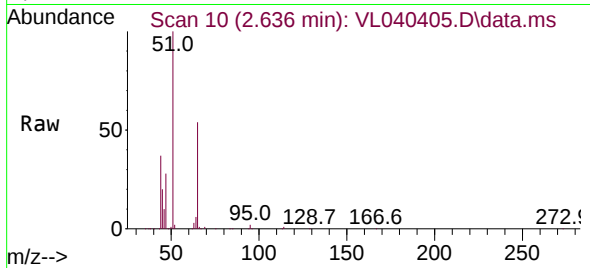




#3
Chlorodifluoromethane
Concen: 1.477 ppbv
RT: 2.636 min Scan# 10
Delta R.T. -0.025 min
Lab File: VL040405.D
Acq: 11 May 2023 18:03

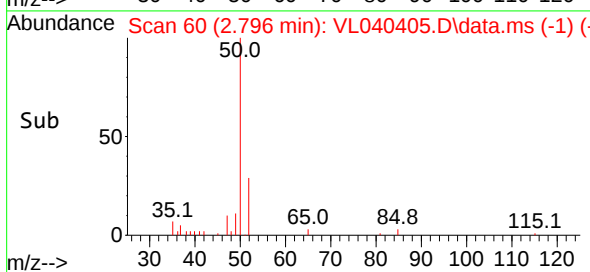
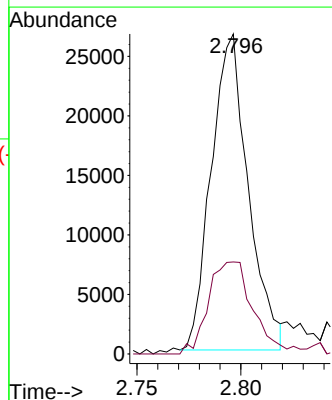
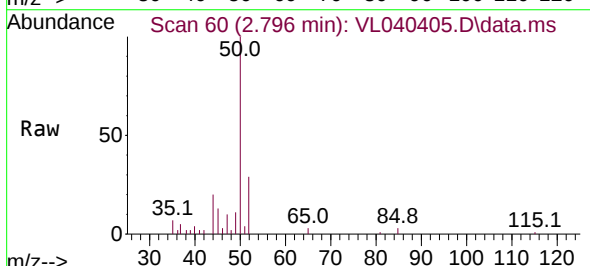
Instrument :
MSVOA_L
ClientSampleId :
SV-04-20230510

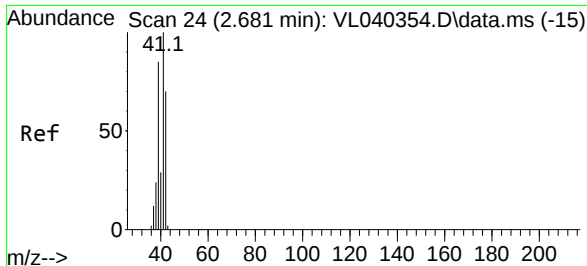
Tgt Ion: 51 Resp: 204580
Ion Ratio Lower Upper
51 100
67 5.7 15.5 23.3#



#4
Chloromethane
Concen: 0.376 ppbv
RT: 2.796 min Scan# 60
Delta R.T. -0.004 min
Lab File: VL040405.D
Acq: 11 May 2023 18:03

Tgt Ion: 50 Resp: 32938
Ion Ratio Lower Upper
50 100
52 29.1 25.3 37.9





#9

Propene

Concen: 1.670 ppbv

RT: 2.681 min Scan# 24

Delta R.T. -0.000 min

Lab File: VL040405.D

Acq: 11 May 2023 18:03

Instrument :

MSVOA_L

ClientSampleId :

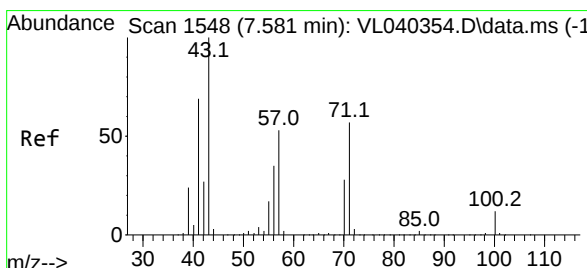
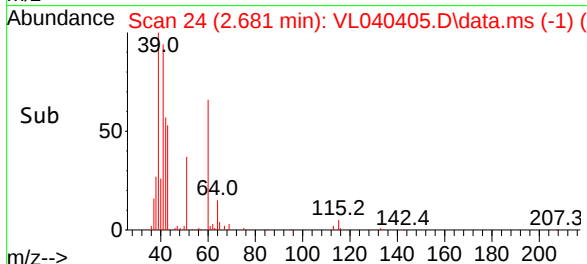
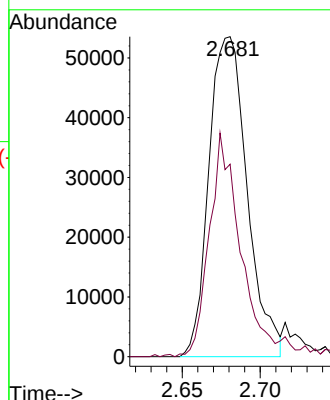
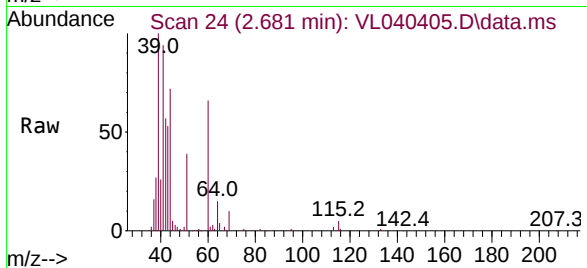
SV-04-20230510

Tgt Ion: 41 Resp: 91383

Ion Ratio Lower Upper

41 100

42 60.0 56.5 84.7



#10

Heptane

Concen: 0.059 ppbv

RT: 7.565 min Scan# 1543

Delta R.T. -0.016 min

Lab File: VL040405.D

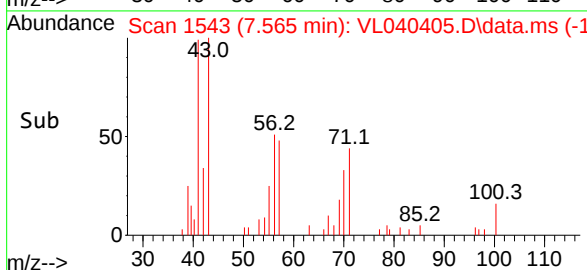
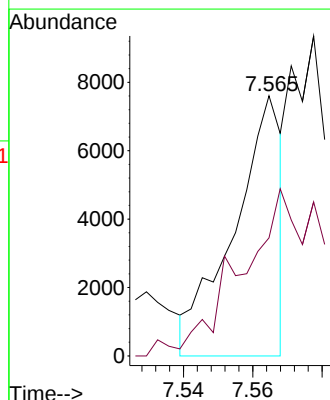
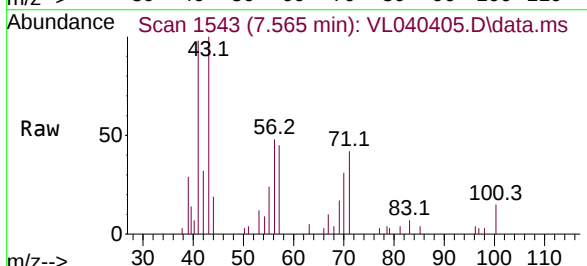
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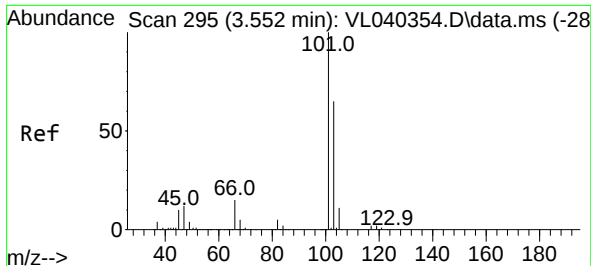
Tgt Ion: 43 Resp: 7279

Ion Ratio Lower Upper

43 100

57 133.2 42.2 63.4#

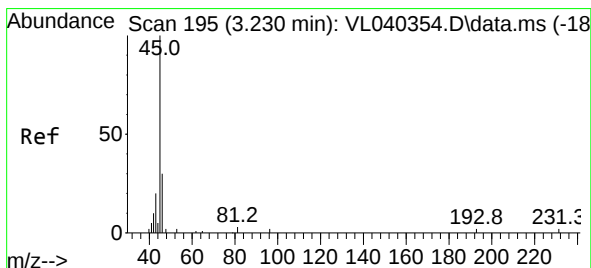
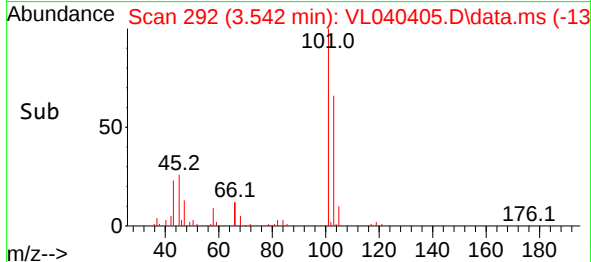
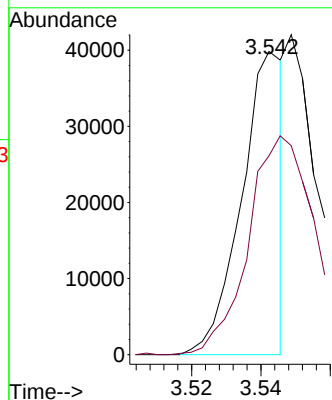
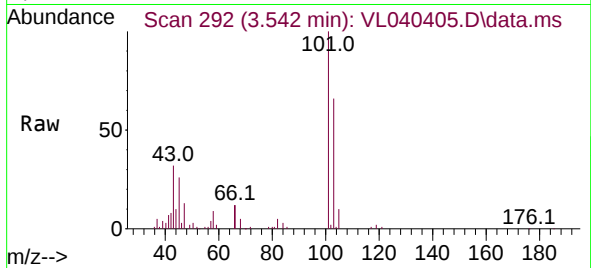




#11
Trichlorofluoromethane
Concen: 0.171 ppbv
RT: 3.542 min Scan# 295
Delta R.T. -0.010 min
Lab File: VL040405.D
Acq: 11 May 2023 18:03

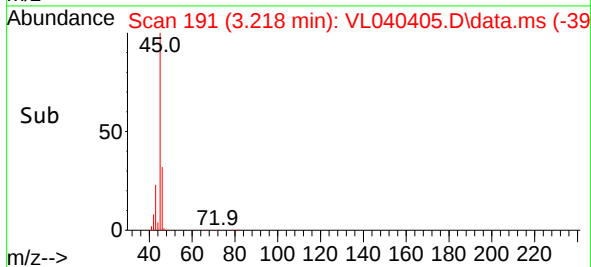
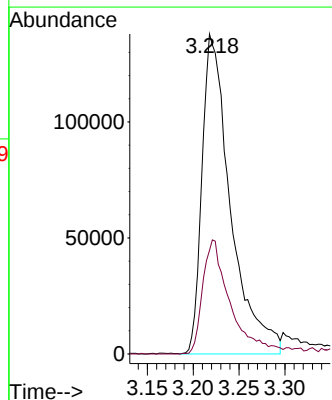
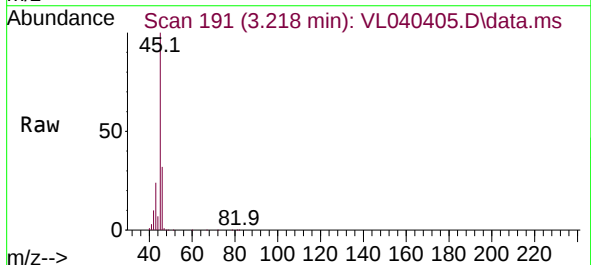
Instrument :
MSVOA_L
ClientSampleId :
SV-04-20230510

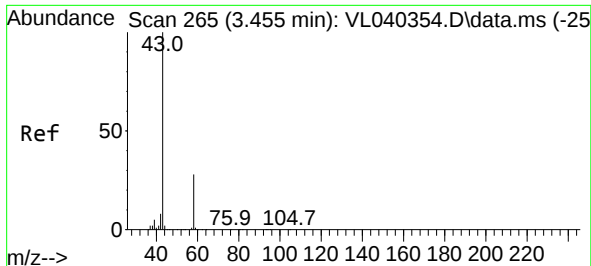
Tgt Ion:101 Resp: 33111
Ion Ratio Lower Upper
101 100
103 65.2 52.2 78.4



#13
Ethanol
Concen: 65.298 ppbv
RT: 3.218 min Scan# 191
Delta R.T. -0.012 min
Lab File: VL040405.D
Acq: 11 May 2023 18:03

Tgt Ion: 45 Resp: 298326
Ion Ratio Lower Upper
45 100
46 37.0 15.3 61.3





#15

Acetone

Concen: 5.147 ppbv

RT: 3.449 min Scan# 2

Delta R.T. -0.006 min

Lab File: VL040405.D

Acq: 11 May 2023 18:03

Instrument :

MSVOA_L

ClientSampleId :

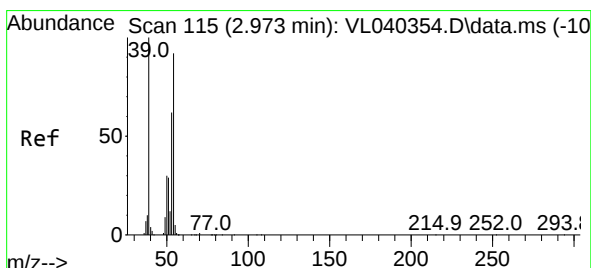
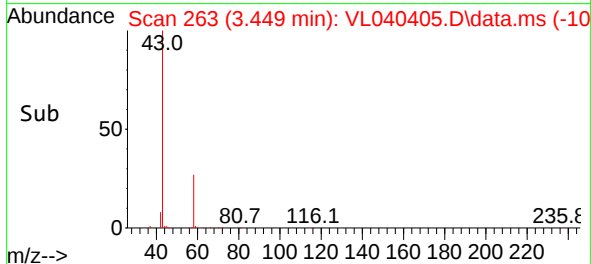
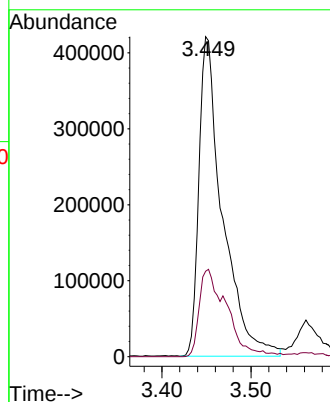
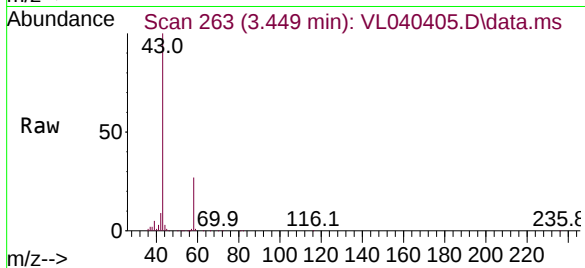
SV-04-20230510

Tgt Ion: 43 Resp: 772862

Ion Ratio Lower Upper

43 100

58 31.9 22.2 33.2



#16

1,3-Butadiene

Concen: 2.189 ppbv

RT: 2.944 min Scan# 106

Delta R.T. -0.029 min

Lab File: VL040405.D

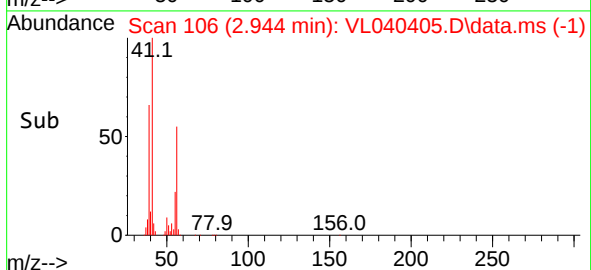
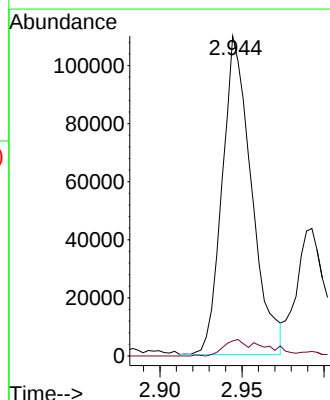
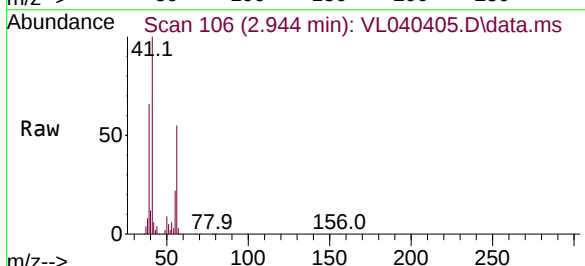
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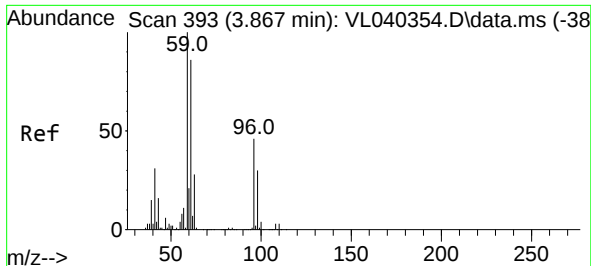
Tgt Ion: 39 Resp: 136037

Ion Ratio Lower Upper

39 100

54 8.6 68.8 103.2#





#17

tert-Butyl alcohol

Concen: 0.181 ppbv

RT: 3.874 min Scan# 393

Delta R.T. 0.007 min

Lab File: VL040405.D

Acq: 11 May 2023 18:03

Instrument :

MSVOA_L

ClientSampleId :

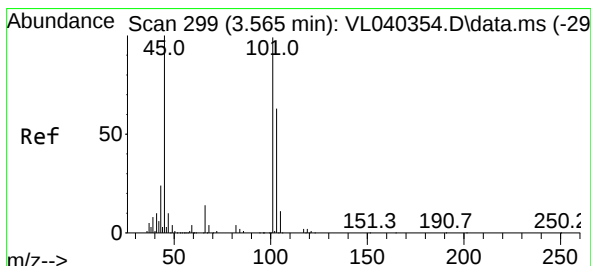
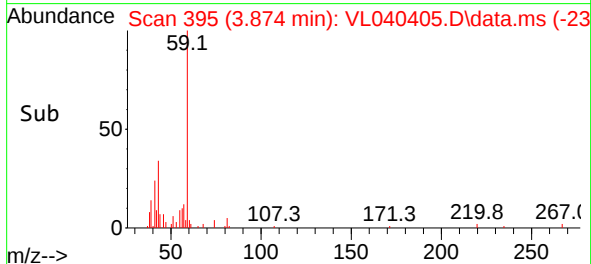
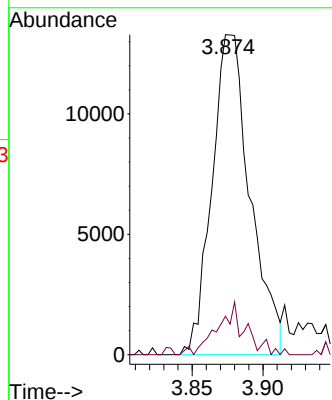
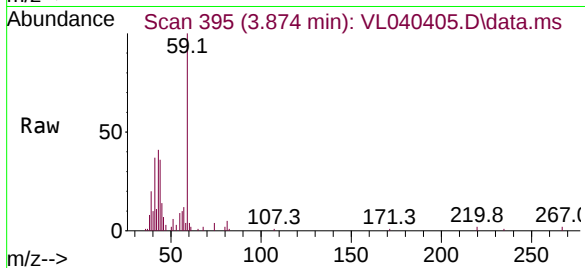
SV-04-20230510

Tgt Ion: 59 Resp: 24984

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#



#19

Isopropyl Alcohol

Concen: 4.021 ppbv

RT: 3.562 min Scan# 298

Delta R.T. -0.003 min

Lab File: VL040405.D

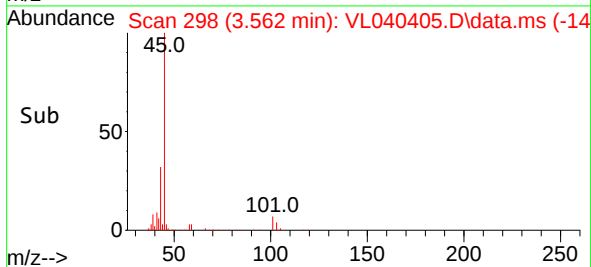
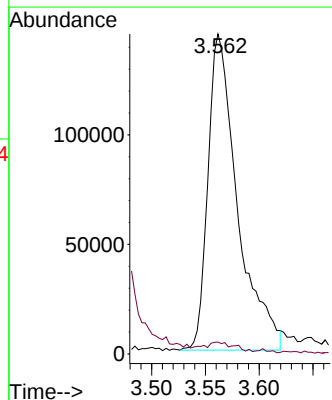
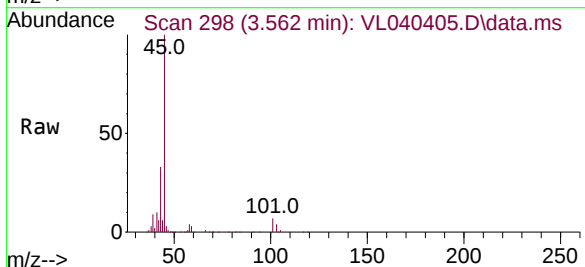
Acq: 11 May 2023 18:03

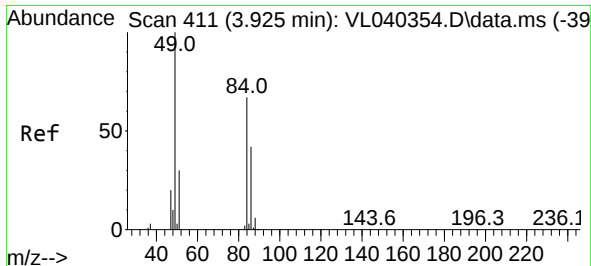
Tgt Ion: 45 Resp: 275485

Ion Ratio Lower Upper

45 100

58 4.0 2.6 4.0#





#20

Methylene Chloride

Concen: 8.208 ppbv

RT: 3.919 min Scan# 409

Delta R.T. -0.006 min

Lab File: VL040405.D

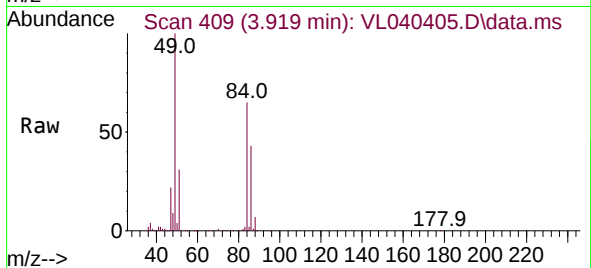
Acq: 11 May 2023 18:03

Instrument :

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Tgt Ion: 84 Resp: 492066

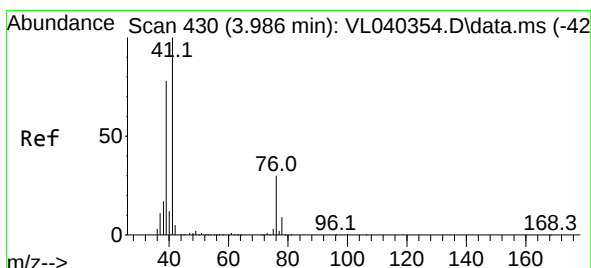
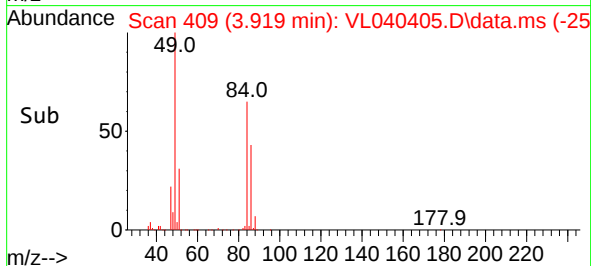
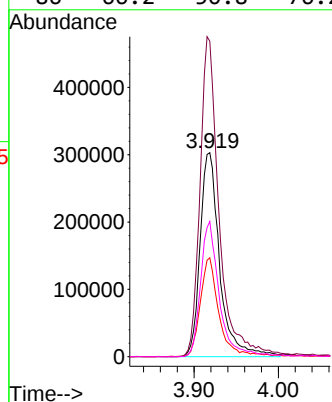
Ion Ratio Lower Upper

84 100

49 154.4 120.1 180.1

51 48.3 36.3 54.5

86 66.2 50.8 76.2



#21

Allyl Chloride

Concen: 0.179 ppbv

RT: 3.912 min Scan# 407

Delta R.T. -0.074 min

Lab File: VL040405.D

Acq: 11 May 2023 18:03

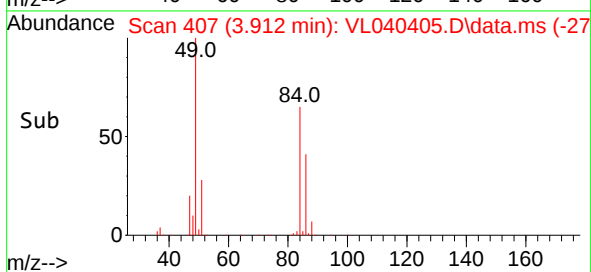
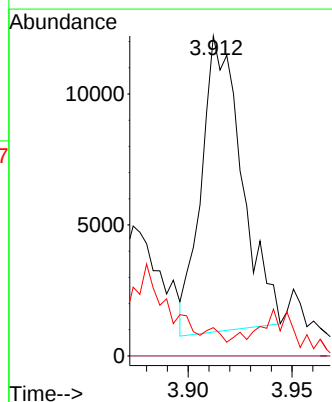
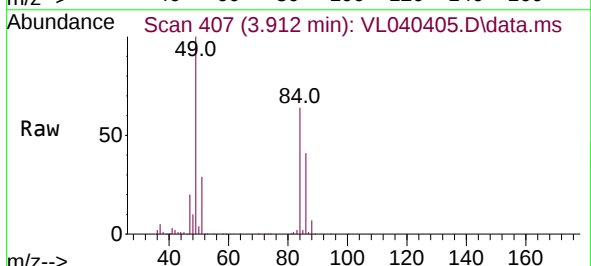
Tgt Ion: 41 Resp: 15271

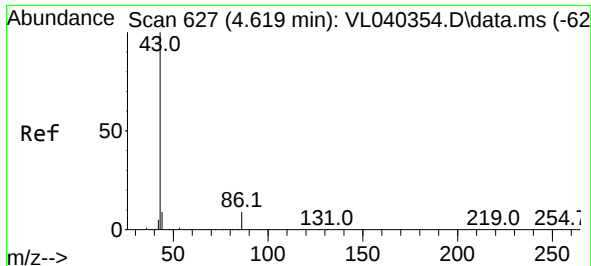
Ion Ratio Lower Upper

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76 0.0 25.5 38.3#

39 15.7 64.0 96.0#

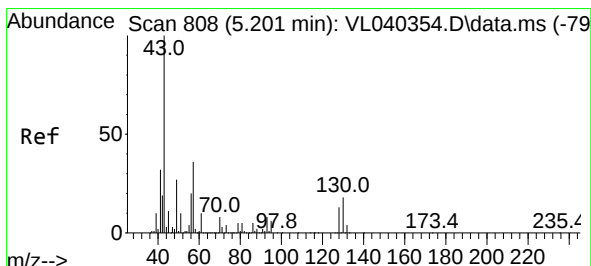
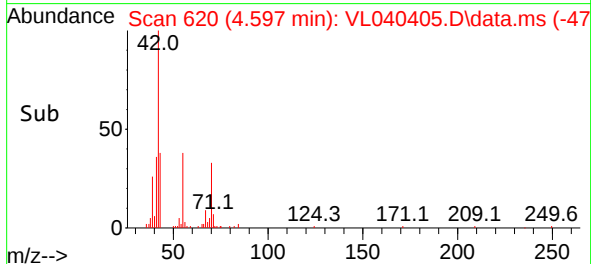
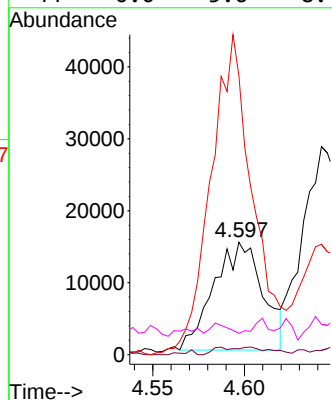
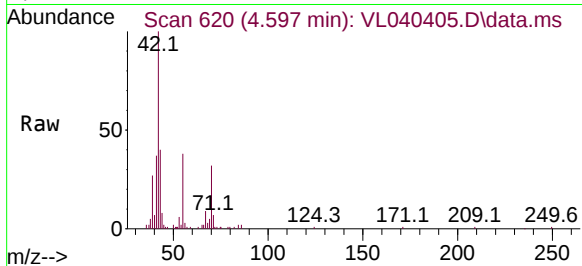




#23
 Vinyl Acetate
 Concen: 0.730 ppbv
 RT: 4.597 min Scan# 61
 Delta R.T. -0.022 min
 Lab File: VL040405.D
 Acq: 11 May 2023 18:03

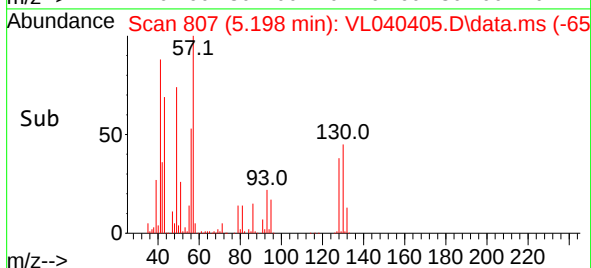
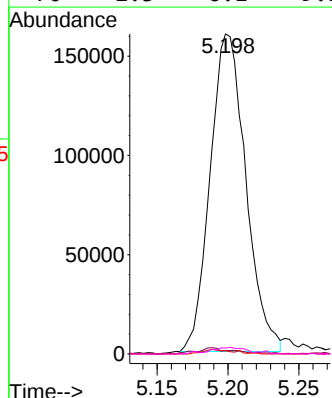
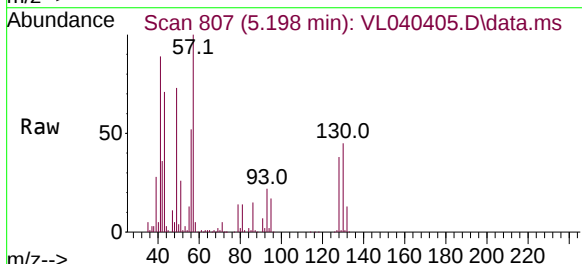
Instrument :
 MSVOA_1
 ClientSampleId :
 SV-04-20230510

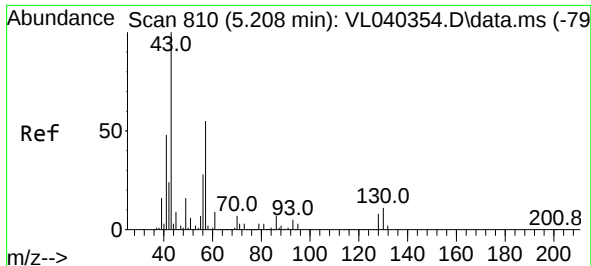
Tgt Ion:	43	Resp:	27909
Ion	Ratio	Lower	Upper
43	100		
86	4.1	6.0	9.0#
42	241.4	6.4	9.6#
44	0.0	5.6	8.4#



#25
 Ethyl Acetate
 Concen: 1.111 ppbv
 RT: 5.198 min Scan# 807
 Delta R.T. -0.003 min
 Lab File: VL040405.D
 Acq: 11 May 2023 18:03

Tgt Ion:	43	Resp:	280640
Ion	Ratio	Lower	Upper
43	100		
45	2.2	8.5	12.7#
61	1.2	8.5	12.7#
70	2.3	6.1	9.1#

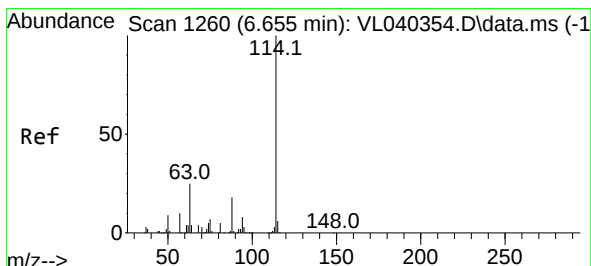
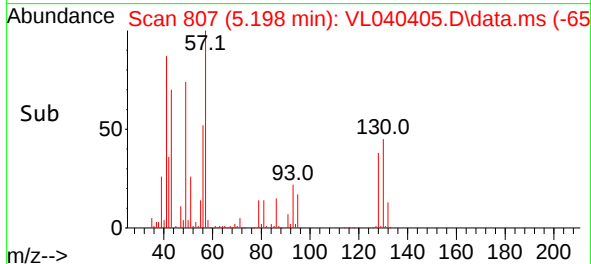
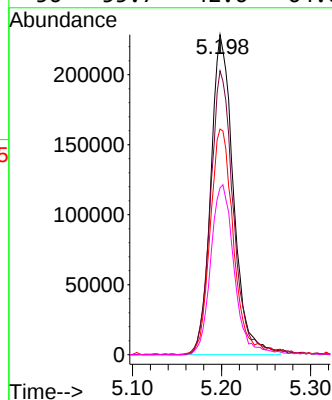
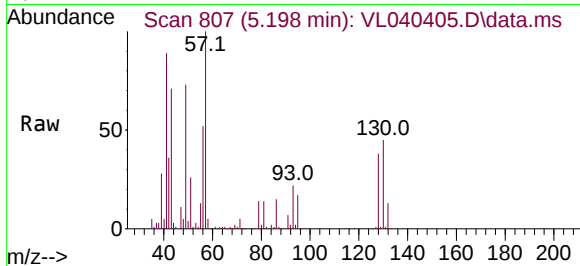




#26
Hexane
Concen: 3.785 ppbv
RT: 5.198 min Scan# 80
Delta R.T. -0.010 min
Lab File: VL040405.D
Acq: 11 May 2023 18:03

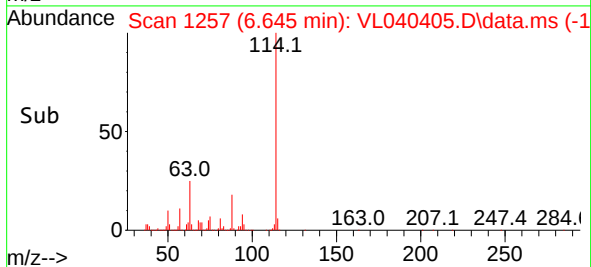
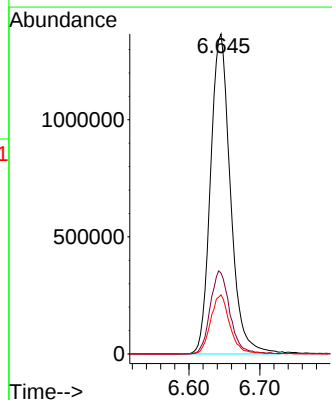
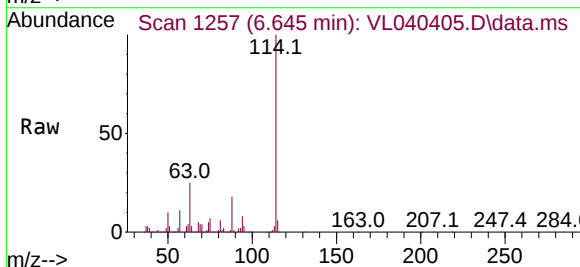
Instrument :
MSVOA_L
ClientSampleId :
SV-04-20230510

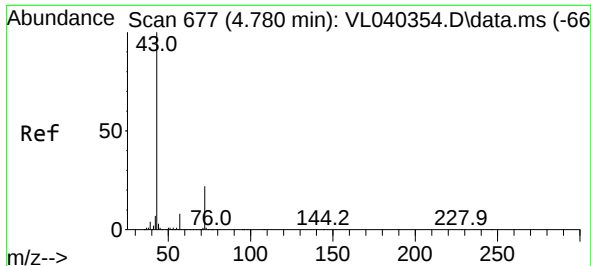
Tgt Ion: 57 Resp: 403158
Ion Ratio Lower Upper
57 100
41 91.4 74.8 112.2
43 73.2 192.7 289.1#
56 55.7 42.6 64.0



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.645 min Scan# 1257
Delta R.T. -0.010 min
Lab File: VL040405.D
Acq: 11 May 2023 18:03

Tgt Ion: 114 Resp: 2660669
Ion Ratio Lower Upper
114 100
63 26.0 21.4 32.0
88 18.0 14.6 22.0

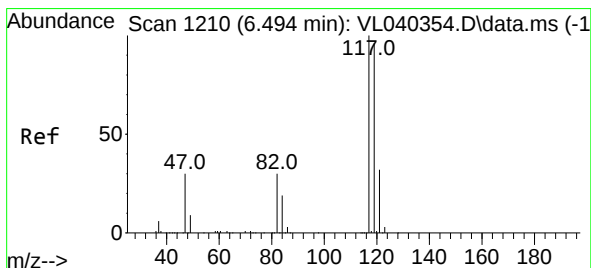
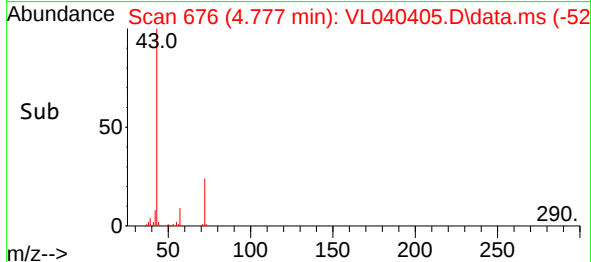
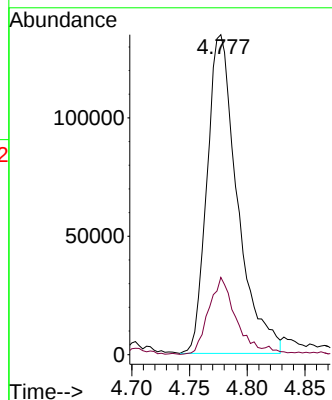
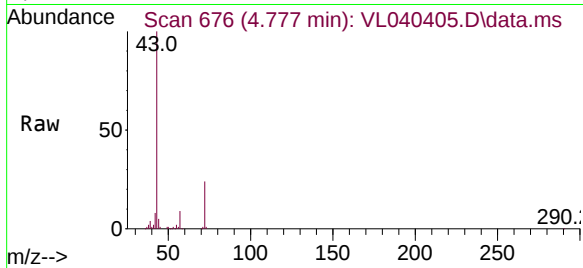




#34
2-Butanone
Concen: 1.712 ppbv
RT: 4.777 min Scan# 61
Delta R.T. -0.003 min
Lab File: VL040405.D
Acq: 11 May 2023 18:03

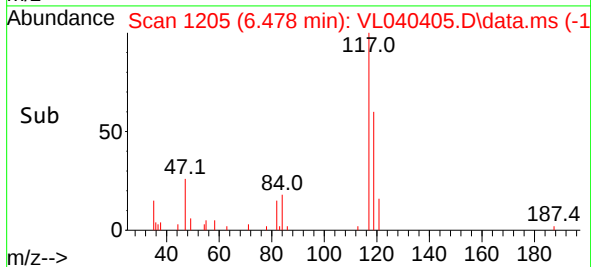
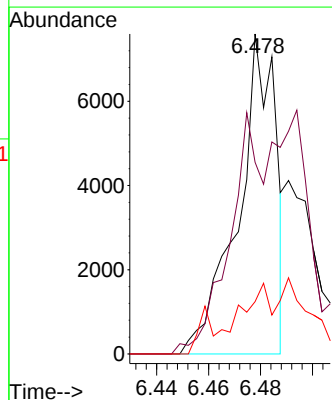
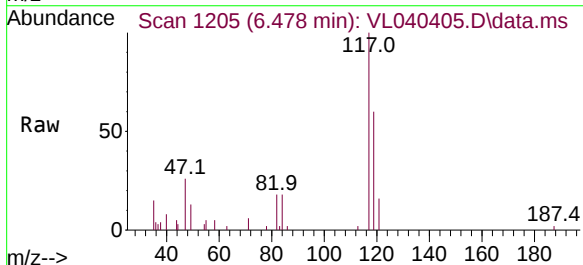
Instrument :
MSVOA_L
ClientSampleId :
SV-04-20230510

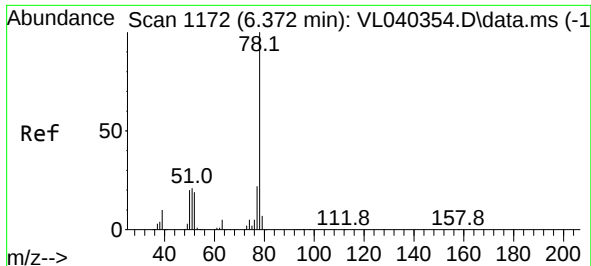
Tgt Ion: 43 Resp: 245594
Ion Ratio Lower Upper
43 100
72 23.6 18.4 27.6



#35
Carbon Tetrachloride
Concen: 0.041 ppbv
RT: 6.478 min Scan# 1205
Delta R.T. -0.016 min
Lab File: VL040405.D
Acq: 11 May 2023 18:03

Tgt Ion: 117 Resp: 7662
Ion Ratio Lower Upper
117 100
119 56.7 76.6 114.8#
121 16.4 25.3 37.9#

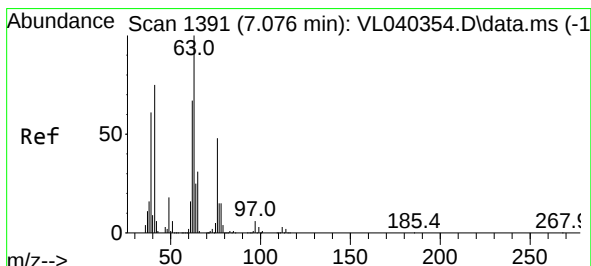
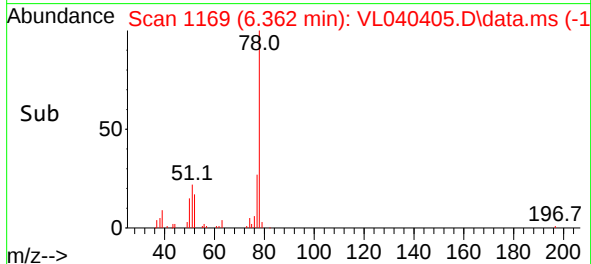
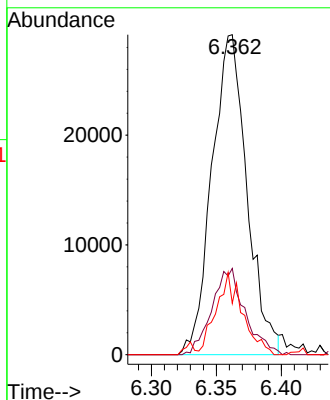
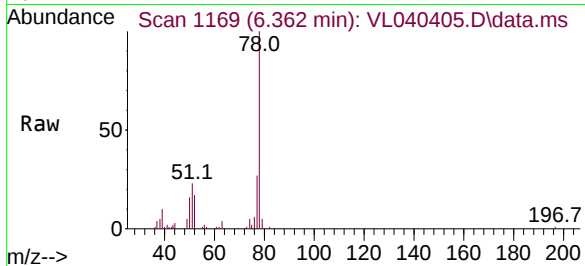




#36
Benzene
Concen: 0.252 ppbv
RT: 6.362 min Scan# 1172
Delta R.T. -0.010 min
Lab File: VL040405.D
Acq: 11 May 2023 18:03

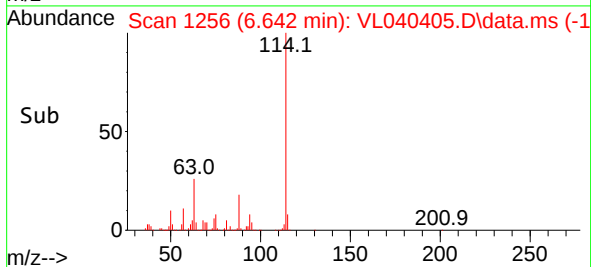
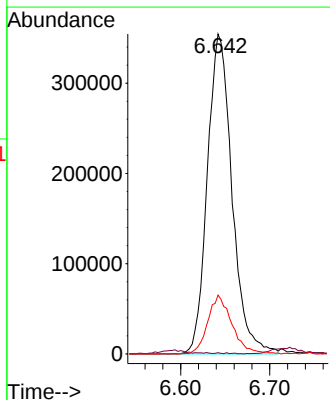
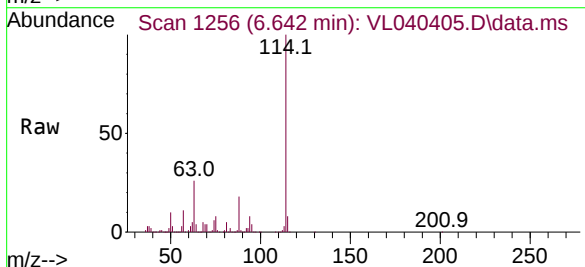
Instrument :
MSVOA_L
ClientSampleId :
SV-04-20230510

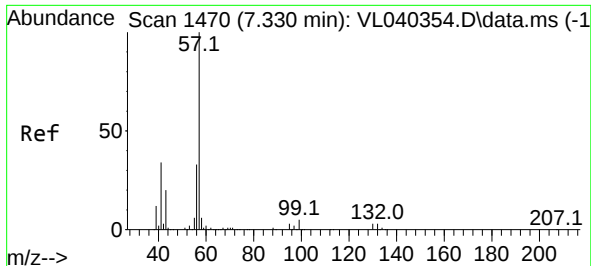
Tgt Ion: 78 Resp: 54633
Ion Ratio Lower Upper
78 100
77 26.9 17.8 26.8#
50 16.1 15.6 23.4



#39
1,2-Dichloropropane
Concen: 7.986 ppbv
RT: 6.642 min Scan# 1256
Delta R.T. -0.434 min
Lab File: VL040405.D
Acq: 11 May 2023 18:03

Tgt Ion: 63 Resp: 682145
Ion Ratio Lower Upper
63 100
41 0.0 59.6 89.4#
62 18.4 53.9 80.9#

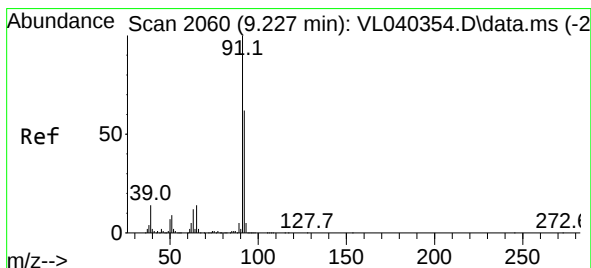
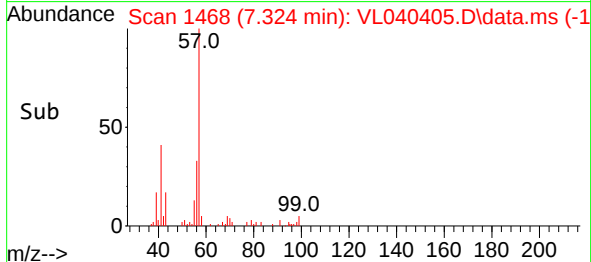
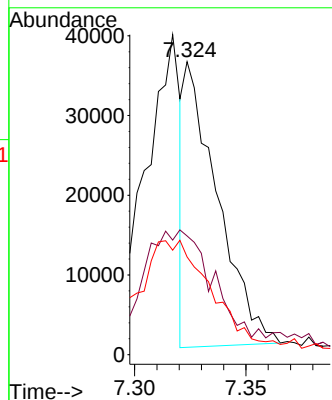
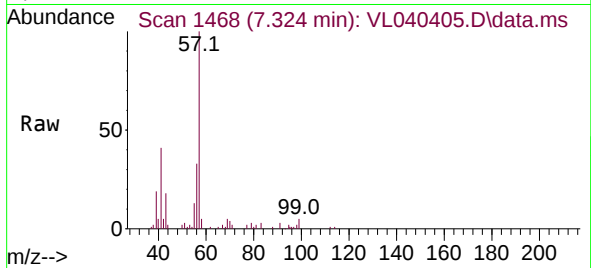




#44
2,2,4-Trimethylpentane
Concen: 0.102 ppbv
RT: 7.324 min Scan# 1468
Delta R.T. -0.006 min
Lab File: VL040405.D
Acq: 11 May 2023 18:03

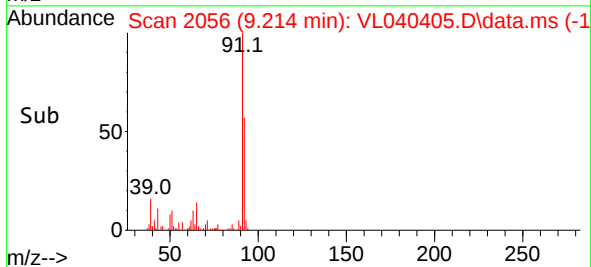
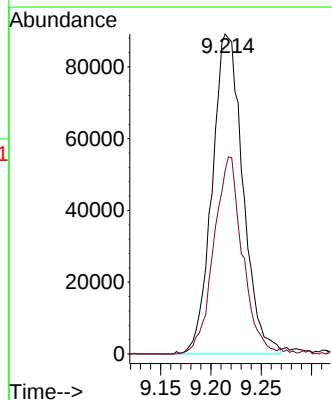
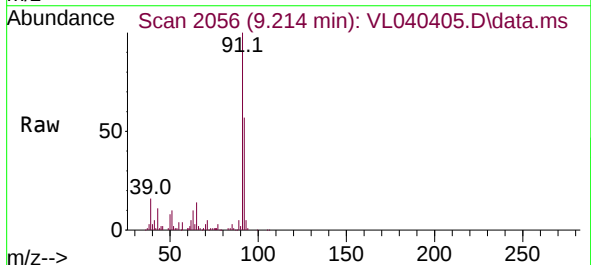
Instrument :
MSVOA_L
ClientSampleId :
SV-04-20230510

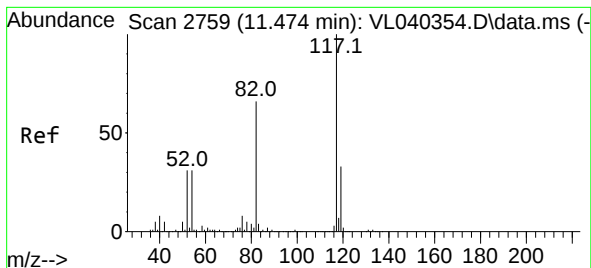
Tgt Ion: 57 Resp: 37125
Ion Ratio Lower Upper
57 100
41 117.5 26.9 40.3#
56 99.6 25.1 37.7#



#53
Toluene
Concen: 0.823 ppbv
RT: 9.214 min Scan# 2056
Delta R.T. -0.013 min
Lab File: VL040405.D
Acq: 11 May 2023 18:03

Tgt Ion: 91 Resp: 189500
Ion Ratio Lower Upper
91 100
92 58.2 48.9 73.3

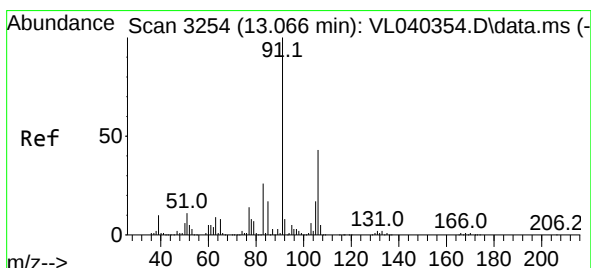
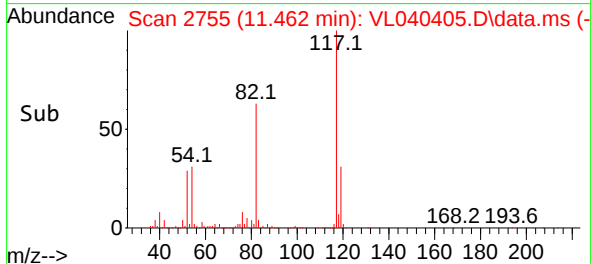
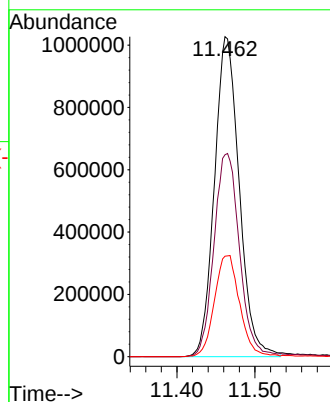
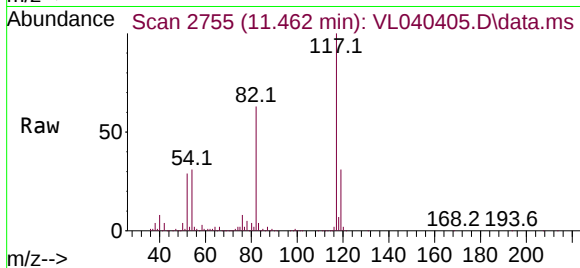




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.462 min Scan# 21
Delta R.T. -0.012 min
Lab File: VL040405.D
Acq: 11 May 2023 18:03

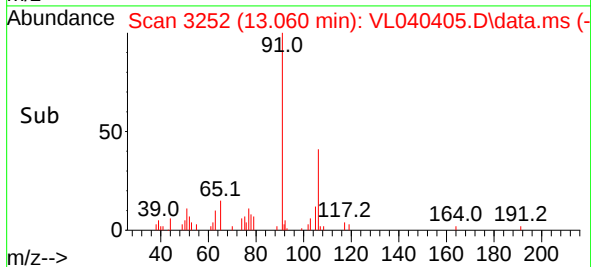
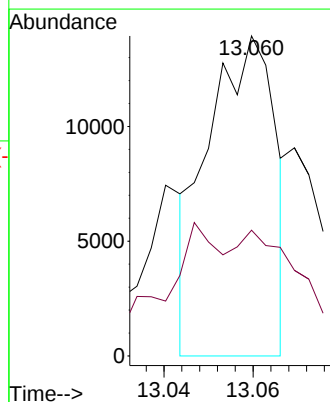
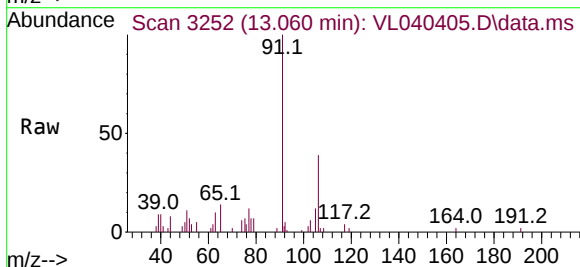
Instrument :
MSVOA_L
ClientSampleId :
SV-04-20230510

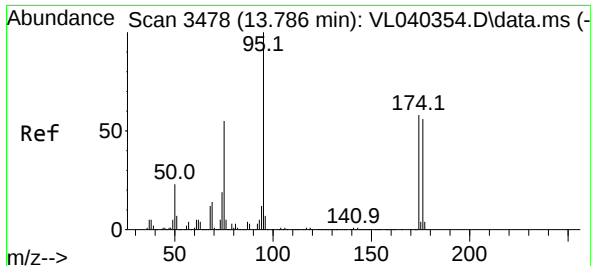
Tgt Ion:117 Resp: 2272036
Ion Ratio Lower Upper
117 100
82 66.3 52.5 78.7
119 32.7 24.3 36.5



#60
o-Xylene
Concen: 0.059 ppbv
RT: 13.060 min Scan# 3252
Delta R.T. -0.006 min
Lab File: VL040405.D
Acq: 11 May 2023 18:03

Tgt Ion: 91 Resp: 14646
Ion Ratio Lower Upper
91 100
106 0.0 21.9 65.8#

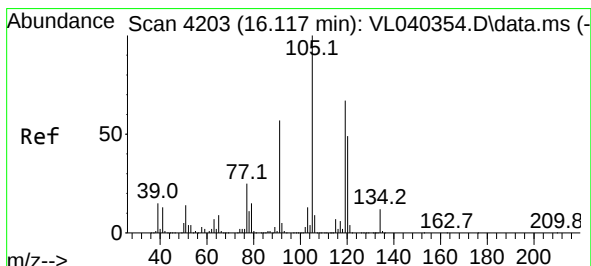
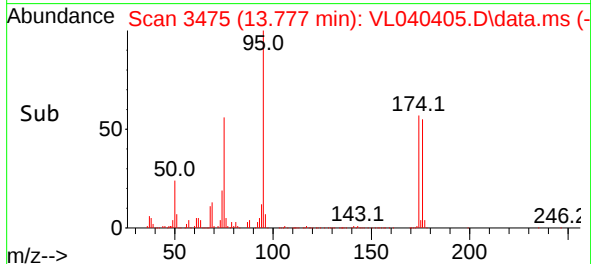
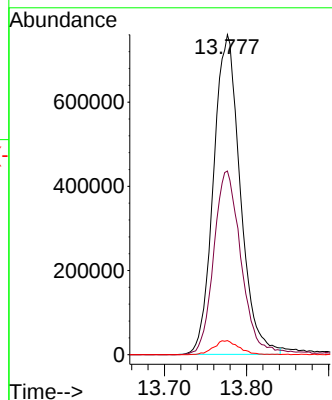
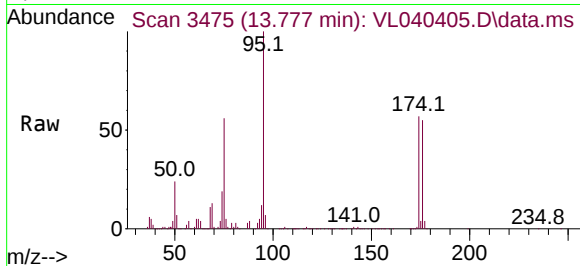




#68
1-Bromo-4-Fluorobenzene
Concen: 9.183 ppbv
RT: 13.777 min Scan# 3475
Delta R.T. -0.009 min
Lab File: VL040405.D
Acq: 11 May 2023 18:03

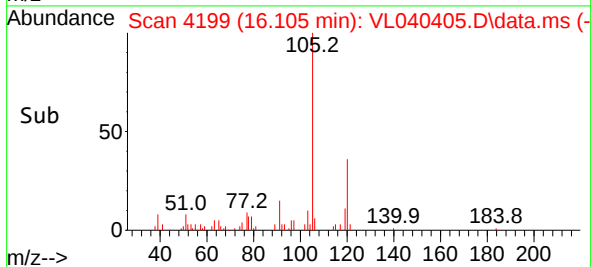
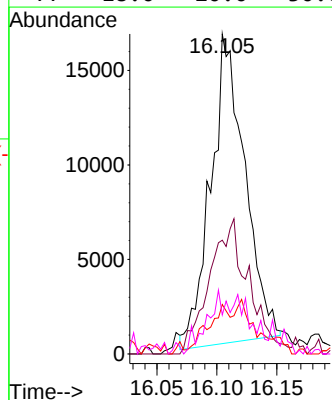
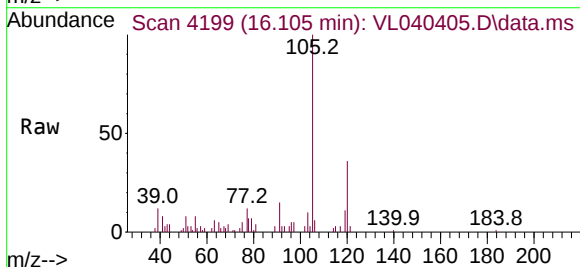
Instrument :
MSVOA_L
ClientSampleId :
SV-04-20230510

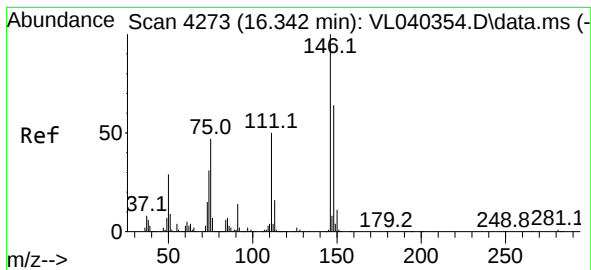
Tgt Ion: 95 Resp: 1725280
Ion Ratio Lower Upper
95 100
174 59.9 47.2 70.8
175 4.2 3.5 5.3



#74
1,2,4-Trimethylbenzene
Concen: 0.112 ppbv
RT: 16.105 min Scan# 4199
Delta R.T. -0.012 min
Lab File: VL040405.D
Acq: 11 May 2023 18:03

Tgt Ion: 105 Resp: 32182
Ion Ratio Lower Upper
105 100
120 37.7 38.9 58.3#
91 12.3 46.0 69.0#
77 18.0 20.0 30.0#





#75

1,3-Dichlorobenzene

Concen: 0.049 ppbv

RT: 16.468 min Scan# 41

Delta R.T. 0.126 min

Lab File: VL040405.D

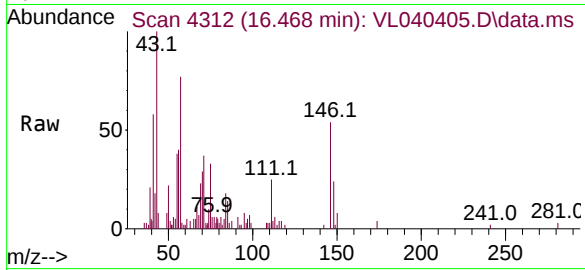
Acq: 11 May 2023 18:03

Instrument :

MSVOA_L

ClientSampleId :

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Tgt Ion:146 Resp: 7795

Ion Ratio Lower Upper

146 100

111 6.6 24.6 74.0#

148 5.1 32.1 96.3#

