

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL021623\
 Data File : VL040189.D
 Acq On : 16 Feb 2023 22:19
 Operator : SY/MD
 Sample : 01550-02DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SVP-05DL

Quant Time: Feb 17 03:32:58 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 : Wed Feb 15 17:01:01 2023
 Response via : Initial Calibration

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

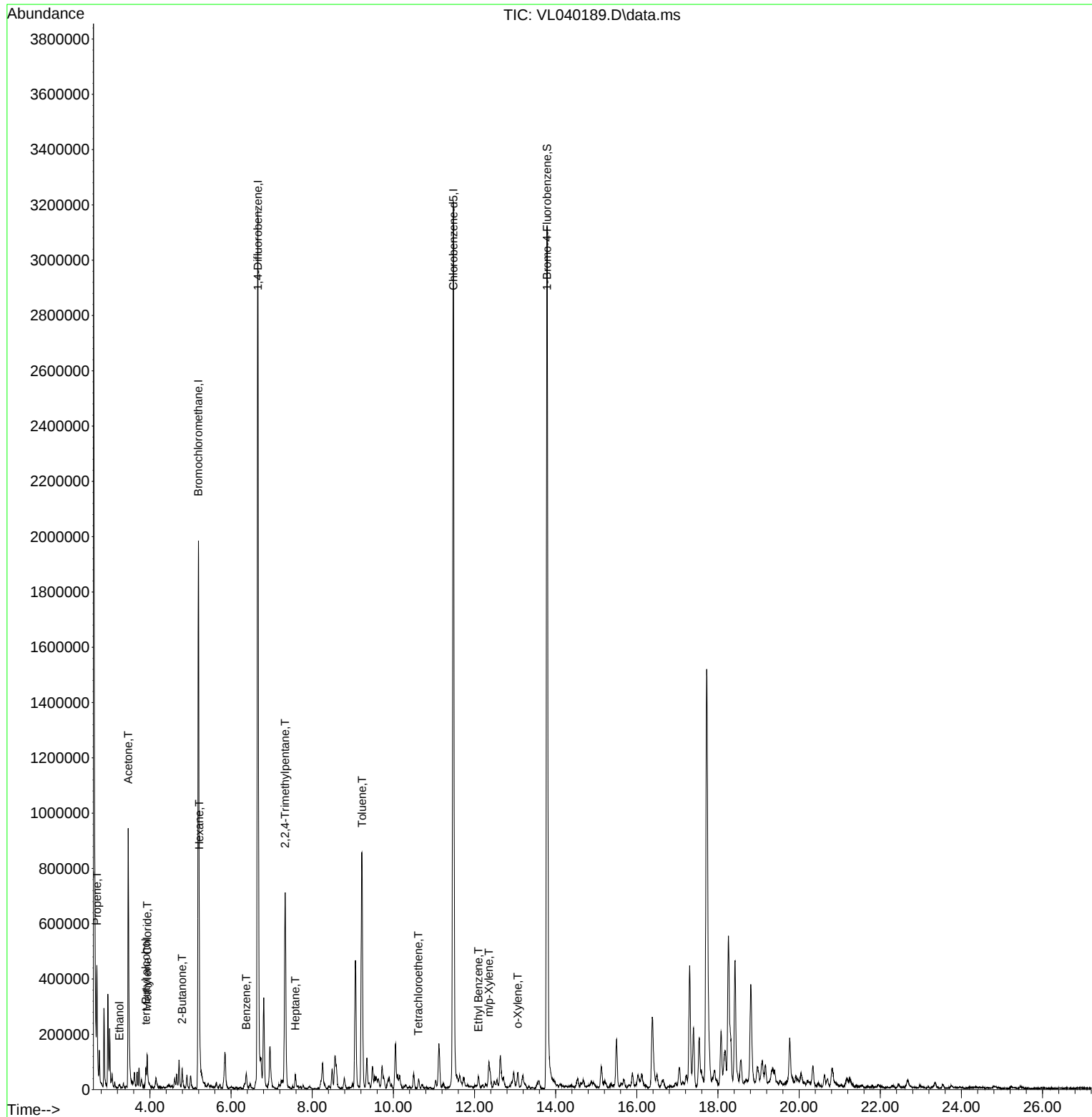
Internal Standards						
1) Bromochloromethane	5.195	49	950536	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	6.658	114	2496646	10.000	ppbv	0.01
55) Chlorobenzene-d5	11.478	117	2180039	10.000	ppbv	0.01
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.789	95	1637788	9.136	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	91.400%
Target Compounds						
					Qvalue	
9) Propene	2.693	41	150197	3.245	ppbv	94
10) Heptane	7.584	43	16214	0.147	ppbv #	26
13) Ethanol	3.246	45	12008	2.818	ppbv #	41
15) Acetone	3.465	43	921087	8.049	ppbv	93
17) tert-Butyl alcohol	3.899	59	47321	0.453	ppbv #	93
20) Methylene Chloride	3.934	84	33614	0.564	ppbv	91
26) Hexane	5.214	57	59868	0.656	ppbv #	41
34) 2-Butanone	4.793	43	76577	0.622	ppbv	92
36) Benzene	6.372	78	41366	0.213	ppbv	95
44) 2,2,4-Trimethylpentane	7.333	57	730949	2.254	ppbv	95
52) Tetrachloroethene	10.619	164	7815m	0.129	ppbv	
53) Toluene	9.230	91	101580	0.488	ppbv	97
58) Ethyl Benzene	12.095	91	33142m	0.125	ppbv	
59) m/p-Xylene	12.355	91	87490m	0.373	ppbv	
60) o-Xylene	13.063	91	38877m	0.172	ppbv	

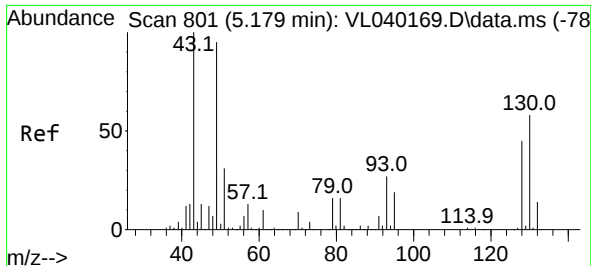
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
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ClientSampleId :
SVP-05DL

Quant Time: Feb 17 03:32:58 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 : Wed Feb 15 17:01:01 2023
Response via : Initial Calibration

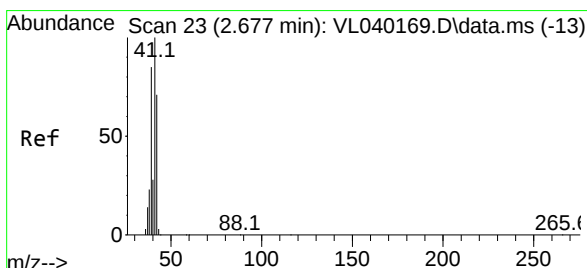
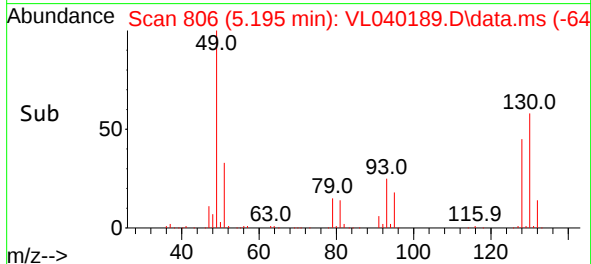
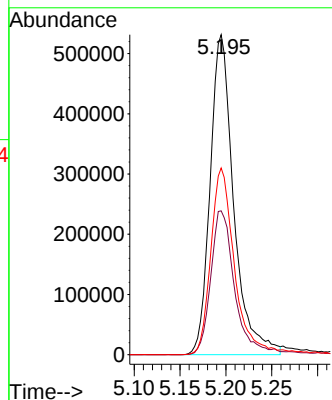
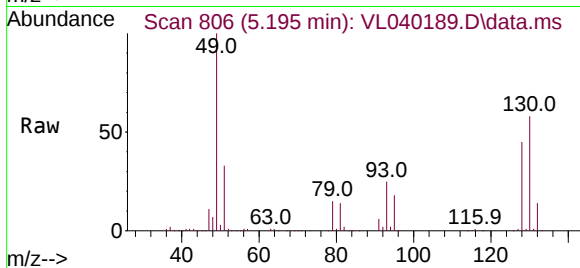




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.195 min Scan# 80
Delta R.T. 0.016 min
Lab File: VL040189.D
Acq: 16 Feb 2023 22:19

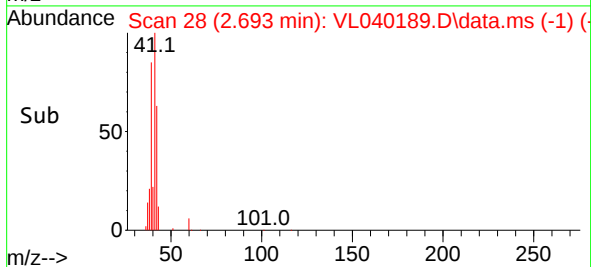
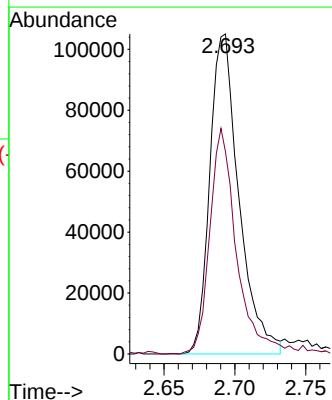
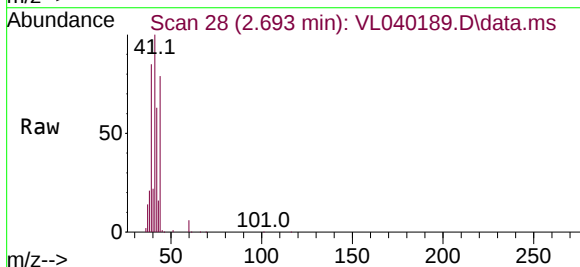
Instrument :
MSVOA_L
ClientSampleId :
SVP-05DL

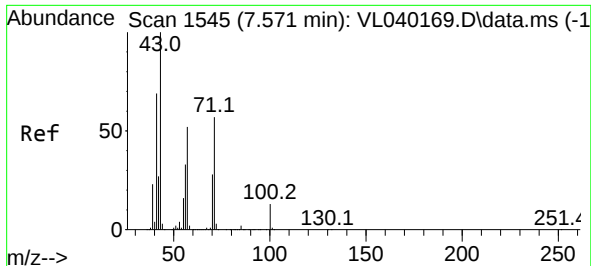
Tgt Ion: 49 Resp: 950536
Ion Ratio Lower Upper
49 100
128 46.7 24.1 72.3
130 60.8 30.9 92.8



#9
Propene
Concen: 3.245 ppbv
RT: 2.693 min Scan# 28
Delta R.T. 0.016 min
Lab File: VL040189.D
Acq: 16 Feb 2023 22:19

Tgt Ion: 41 Resp: 150197
Ion Ratio Lower Upper
41 100
42 66.0 56.9 85.3

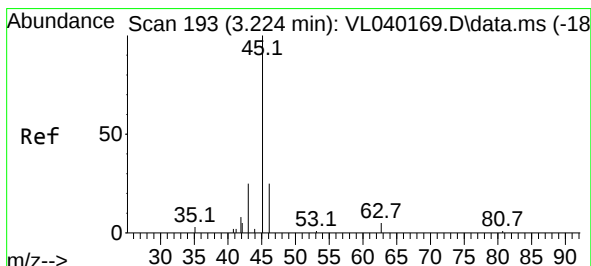
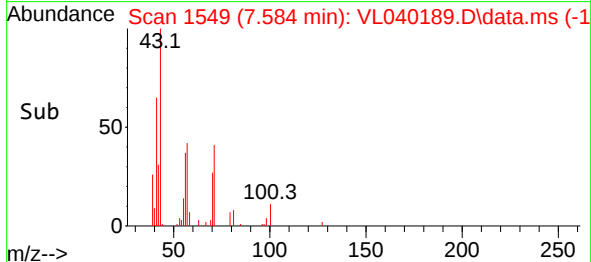
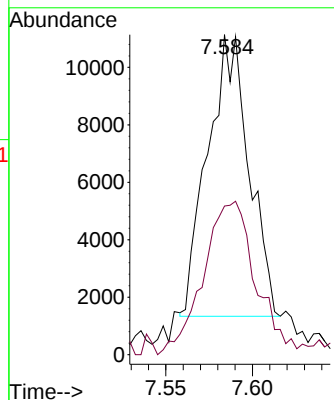
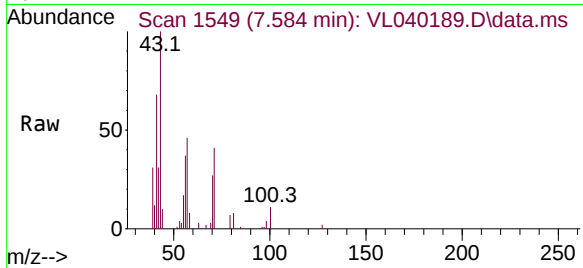




#10
 Heptane
 Concen: 0.147 ppbv
 RT: 7.584 min Scan# 11
 Delta R.T. 0.013 min
 Lab File: VL040189.D
 Acq: 16 Feb 2023 22:19

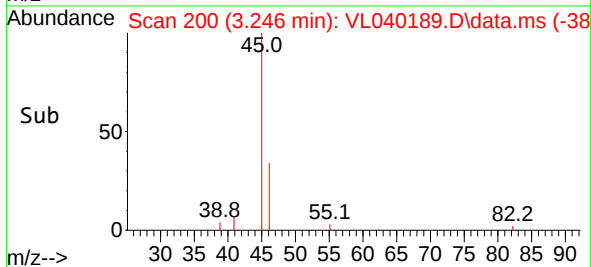
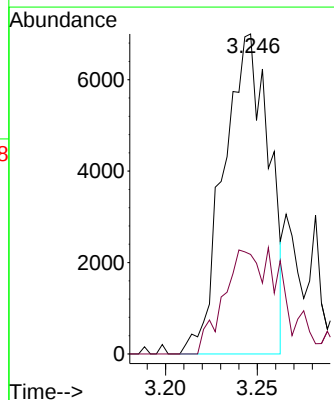
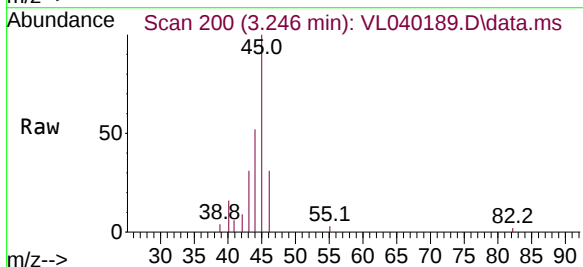
Instrument :
 MSVOA_L
 ClientSampleId :
 SVP-05DL

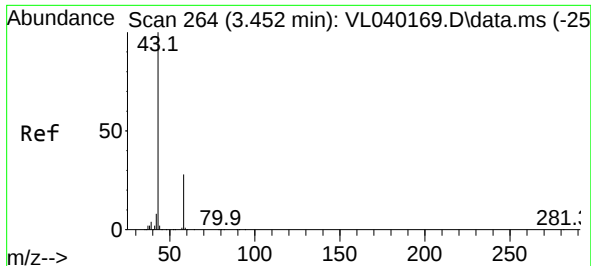
Tgt Ion: 43 Resp: 16214
 Ion Ratio Lower Upper
 43 100
 57 0.0 41.4 62.2#



#13
 Ethanol
 Concen: 2.818 ppbv
 RT: 3.246 min Scan# 200
 Delta R.T. 0.022 min
 Lab File: VL040189.D
 Acq: 16 Feb 2023 22:19

Tgt Ion: 45 Resp: 12008
 Ion Ratio Lower Upper
 45 100
 46 0.0 13.3 53.1#

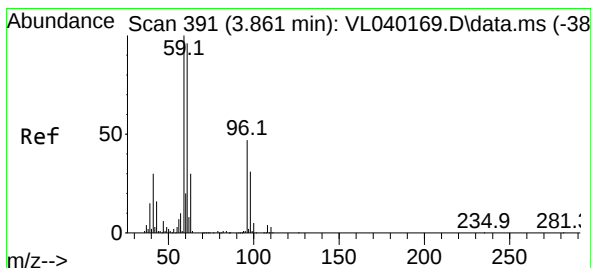
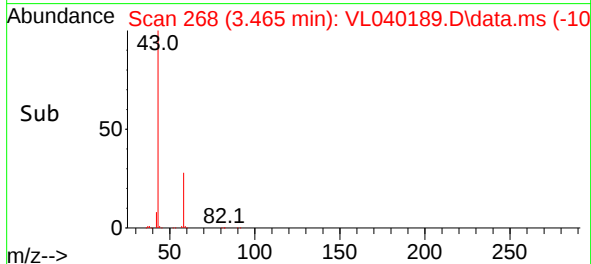
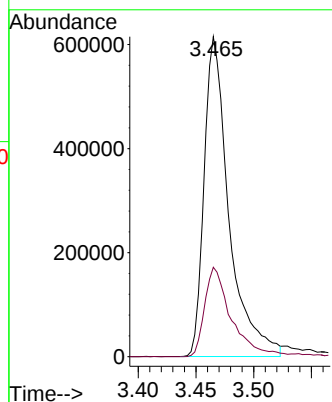
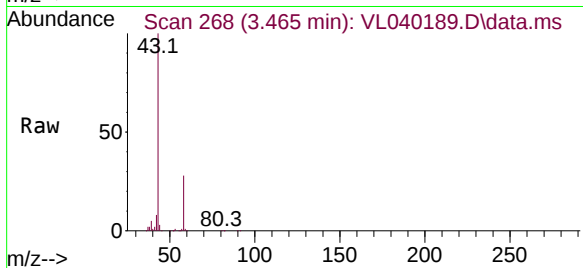




#15
Acetone
Concen: 8.049 ppbv
RT: 3.465 min Scan# 20
Delta R.T. 0.013 min
Lab File: VL040189.D
Acq: 16 Feb 2023 22:19

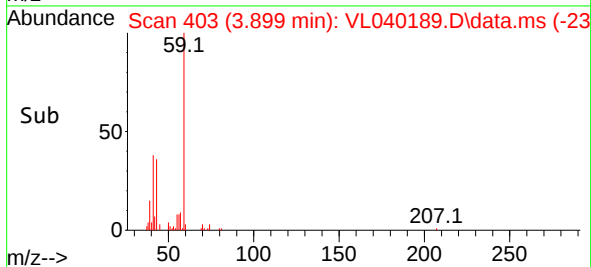
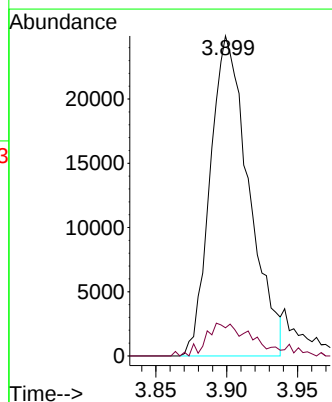
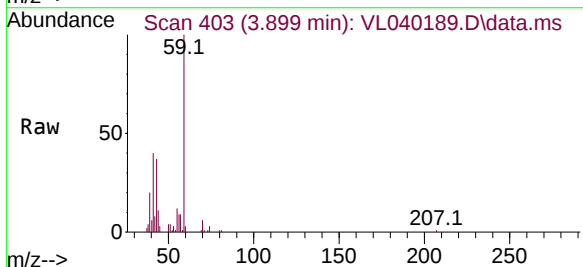
Instrument :
MSVOA_L
ClientSampleId :
SVP-05DL

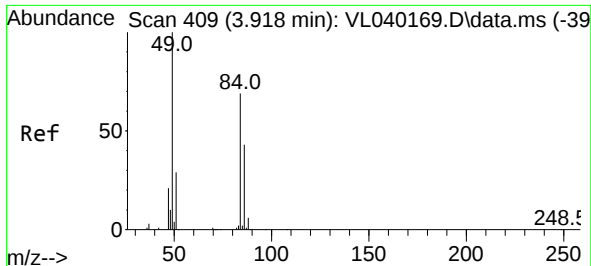
Tgt Ion: 43 Resp: 921087
Ion Ratio Lower Upper
43 100
58 31.5 22.4 33.6



#17
tert-Butyl alcohol
Concen: 0.453 ppbv
RT: 3.899 min Scan# 403
Delta R.T. 0.038 min
Lab File: VL040189.D
Acq: 16 Feb 2023 22:19

Tgt Ion: 59 Resp: 47321
Ion Ratio Lower Upper
59 100
57 13.2 8.5 12.7#



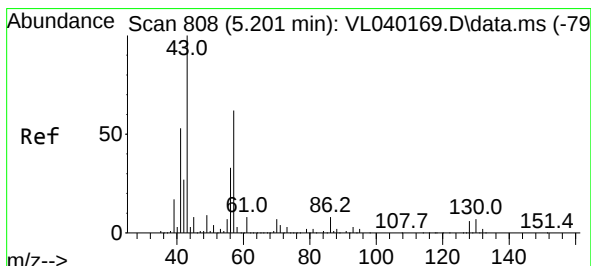
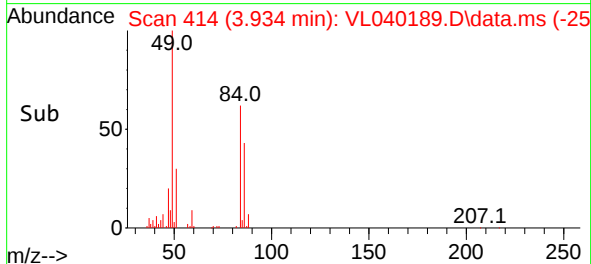
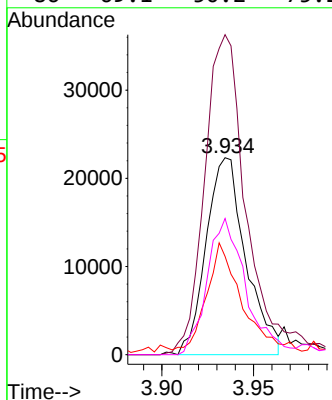
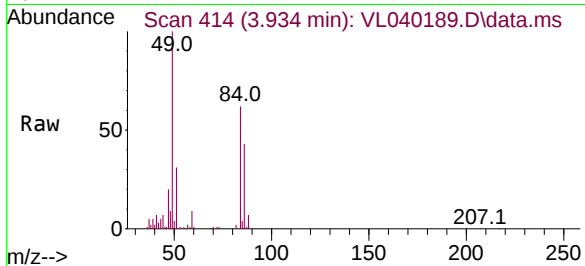


#20
Methylene Chloride
Concen: 0.564 ppbv
RT: 3.934 min Scan# 414
Delta R.T. 0.016 min
Lab File: VL040189.D
Acq: 16 Feb 2023 22:19

Instrument :
MSVOA_L
ClientSampleId :
SVP-05DL

Tgt Ion: 84 Resp: 33614

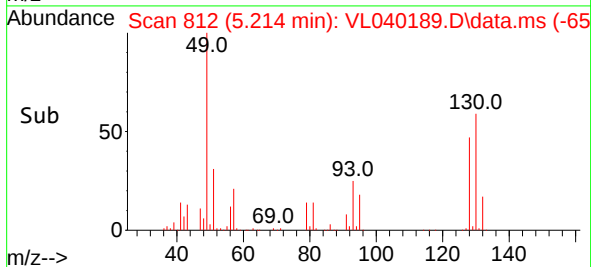
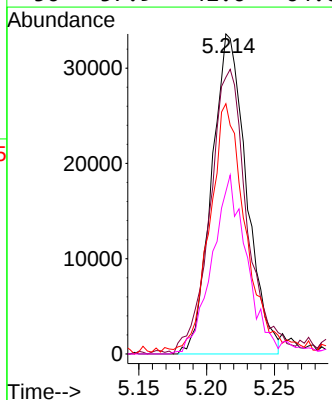
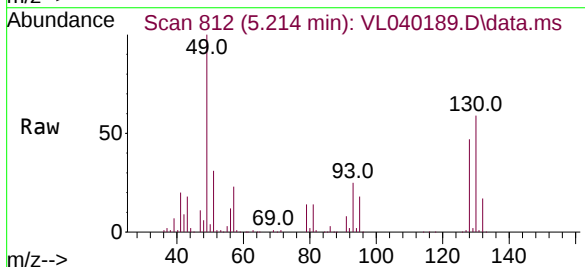
Ion	Ratio	Lower	Upper
84	100		
49	156.5	115.5	173.3
51	46.1	33.1	49.7
86	69.1	50.2	75.2

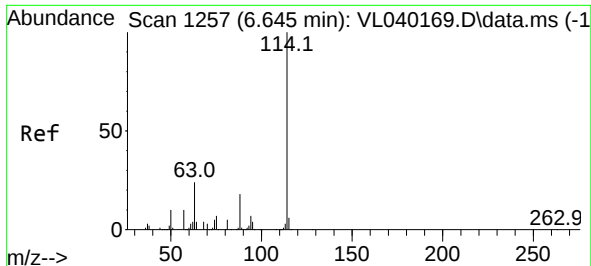


#26
Hexane
Concen: 0.656 ppbv
RT: 5.214 min Scan# 812
Delta R.T. 0.013 min
Lab File: VL040189.D
Acq: 16 Feb 2023 22:19

Tgt Ion: 57 Resp: 59868

Ion	Ratio	Lower	Upper
57	100		
41	95.4	74.3	111.5
43	83.1	193.0	289.4#
56	57.9	42.6	64.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.658 min Scan# 114

Delta R.T. 0.013 min

Lab File: VL040189.D

Acq: 16 Feb 2023 22:19

Instrument :

MSVOA_L

ClientSampleId :

SVP-05DL

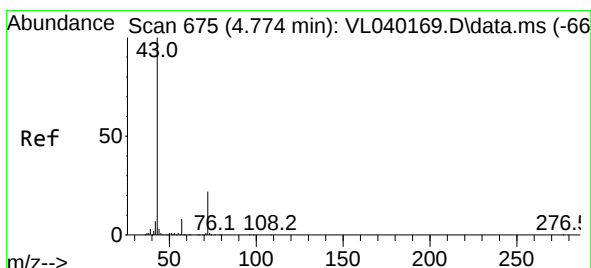
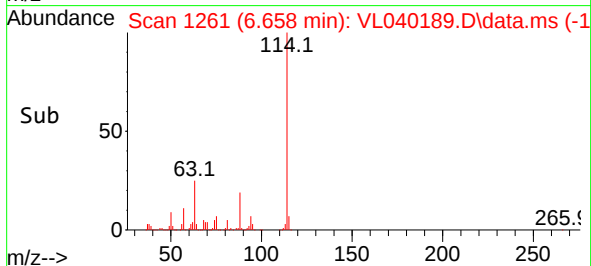
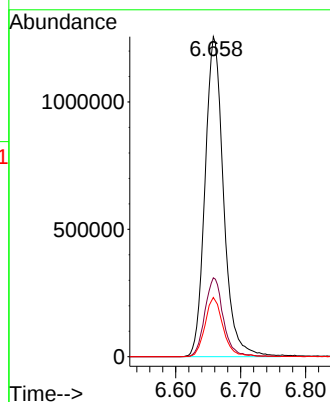
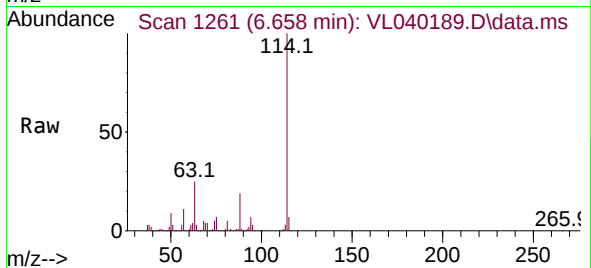
Tgt Ion:114 Resp: 2496646

Ion Ratio Lower Upper

114 100

63 24.7 20.4 30.6

88 18.2 14.3 21.5



#34

2-Butanone

Concen: 0.622 ppbv

RT: 4.793 min Scan# 681

Delta R.T. 0.019 min

Lab File: VL040189.D

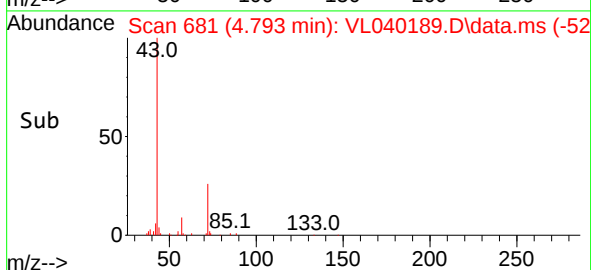
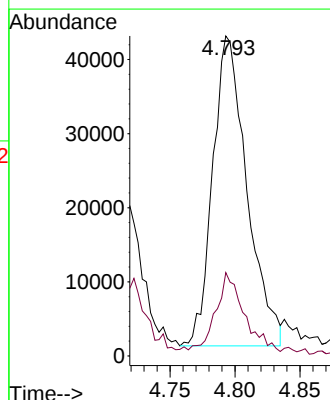
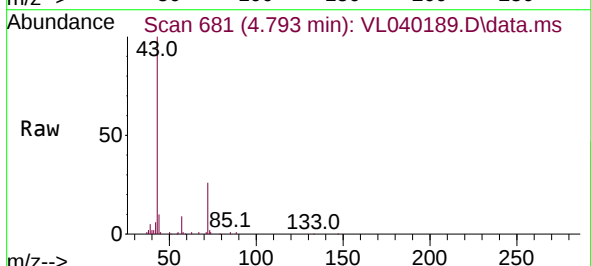
Acq: 16 Feb 2023 22:19

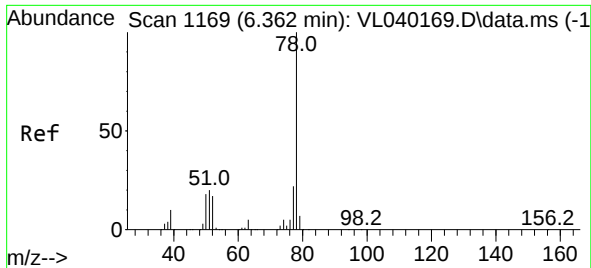
Tgt Ion: 43 Resp: 76577

Ion Ratio Lower Upper

43 100

72 26.0 17.8 26.8

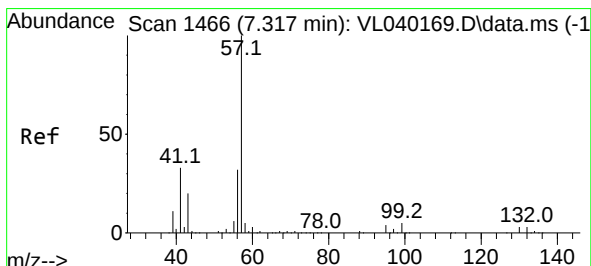
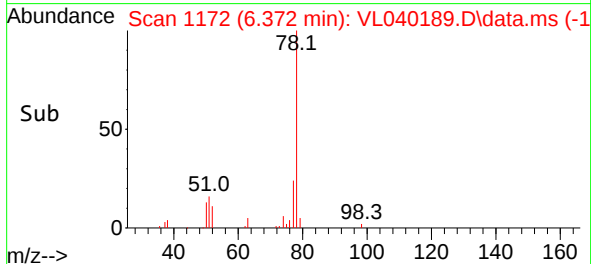
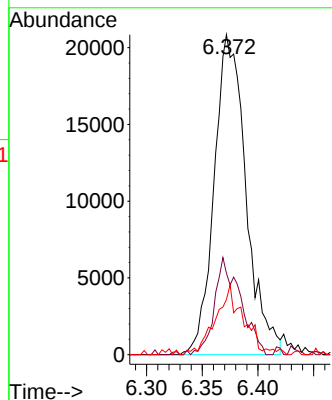
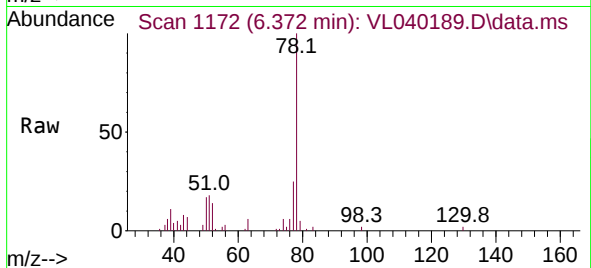




#36
Benzene
Concen: 0.213 ppbv
RT: 6.372 min Scan# 1169
Delta R.T. 0.010 min
Lab File: VL040189.D
Acq: 16 Feb 2023 22:19

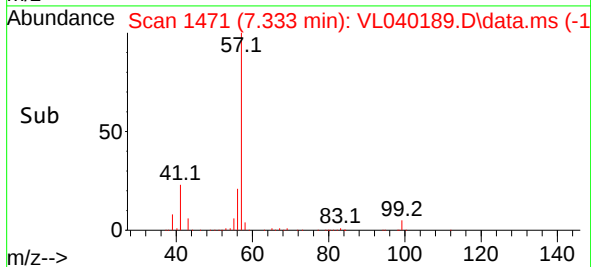
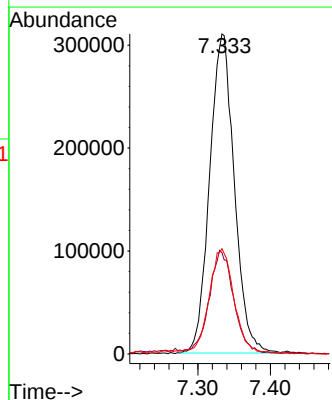
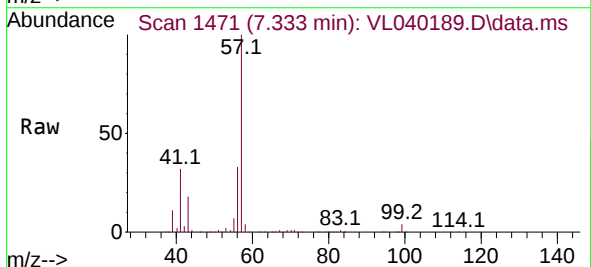
Instrument :
MSVOA_L
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SVP-05DL

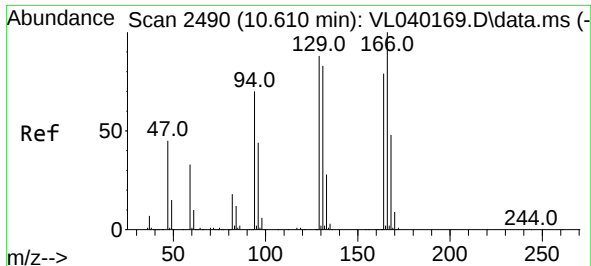
Tgt Ion: 78 Resp: 41366
Ion Ratio Lower Upper
78 100
77 25.5 17.5 26.3
50 17.3 14.6 22.0



#44
2,2,4-Trimethylpentane
Concen: 2.254 ppbv
RT: 7.333 min Scan# 1471
Delta R.T. 0.016 min
Lab File: VL040189.D
Acq: 16 Feb 2023 22:19

Tgt Ion: 57 Resp: 730949
Ion Ratio Lower Upper
57 100
41 34.7 26.2 39.4
56 35.0 24.9 37.3

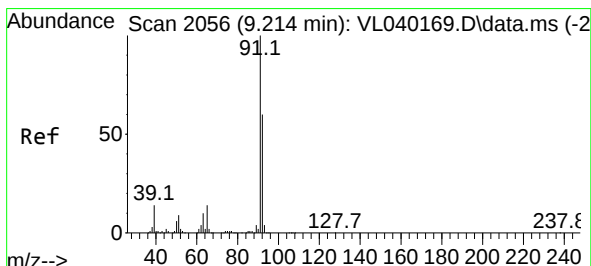
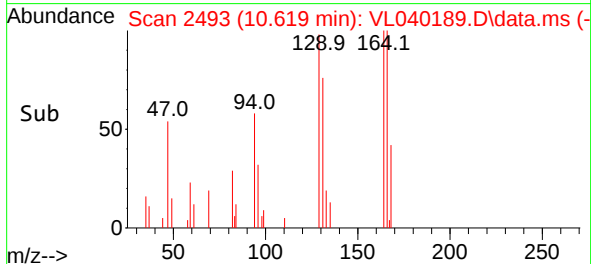
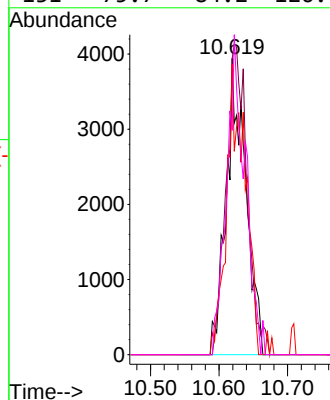
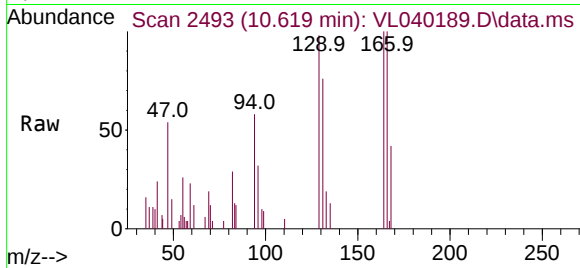




#52
Tetrachloroethene
Concen: 0.129 ppbv m
RT: 10.619 min Scan# 2490
Delta R.T. 0.010 min
Lab File: VL040189.D
Acq: 16 Feb 2023 22:19

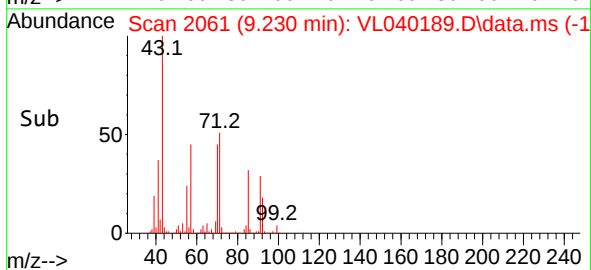
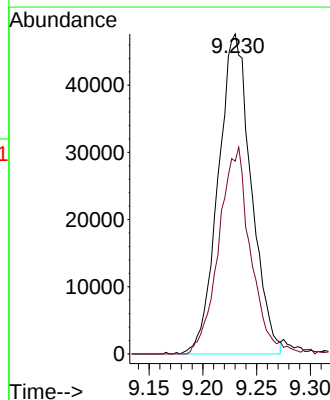
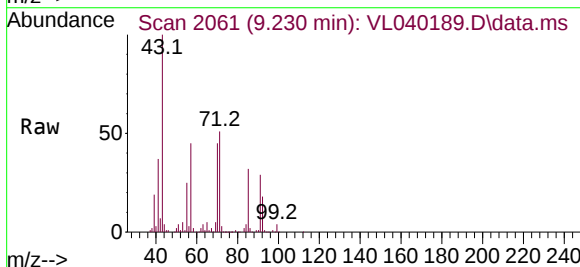
Instrument :
MSVOA_L
ClientSampleId :
SVP-05DL

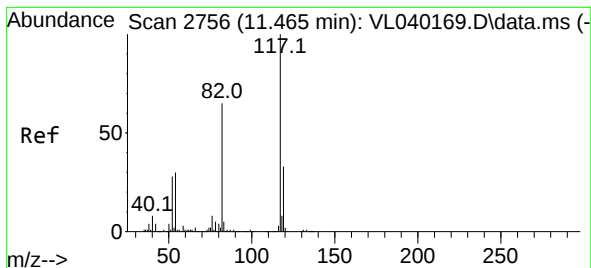
Tgt Ion:164 Resp: 7815
Ion Ratio Lower Upper
164 100
166 100.0 101.5 152.3#
129 98.1 89.0 133.4
131 75.7 84.2 126.4#



#53
Toluene
Concen: 0.488 ppbv
RT: 9.230 min Scan# 2061
Delta R.T. 0.016 min
Lab File: VL040189.D
Acq: 16 Feb 2023 22:19

Tgt Ion: 91 Resp: 101580
Ion Ratio Lower Upper
91 100
92 63.0 48.9 73.3

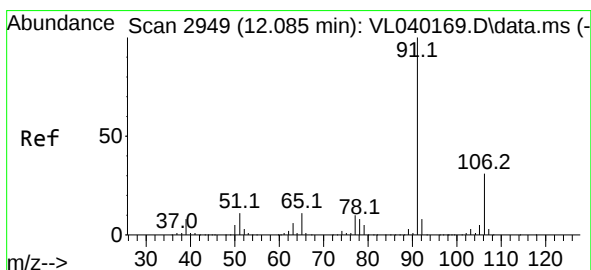
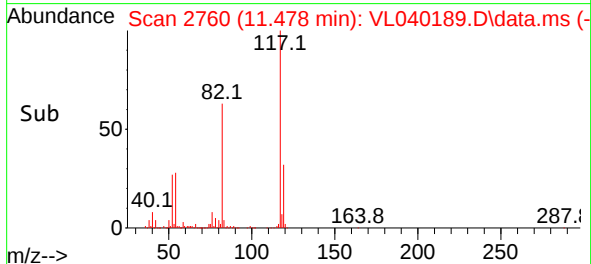
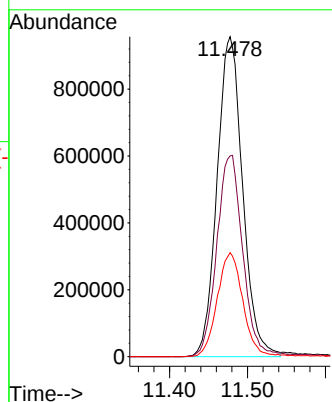
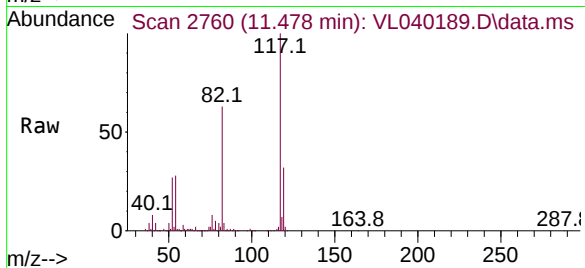




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.478 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL040189.D
Acq: 16 Feb 2023 22:19

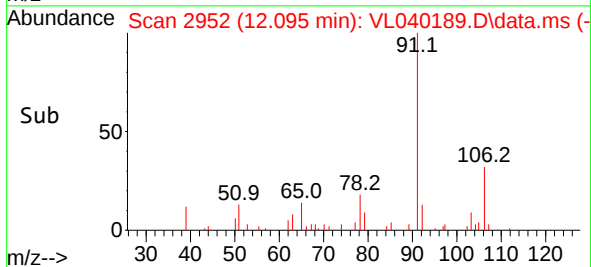
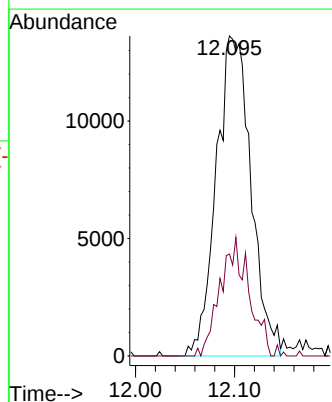
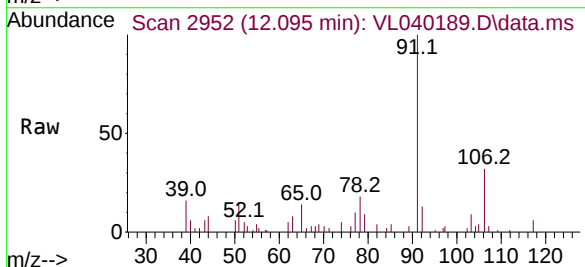
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MSVOA_L
ClientSampleId :
SVP-05DL

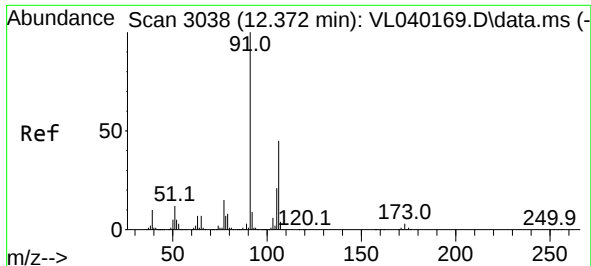
Tgt Ion:117 Resp: 2180039
Ion Ratio Lower Upper
117 100
82 65.2 53.3 79.9
119 33.1 24.6 37.0



#58
Ethyl Benzene
Concen: 0.125 ppbv m
RT: 12.095 min Scan# 2952
Delta R.T. 0.010 min
Lab File: VL040189.D
Acq: 16 Feb 2023 22:19

Tgt Ion: 91 Resp: 33142
Ion Ratio Lower Upper
91 100
106 31.9 24.9 37.3





#59

m/p-Xylene

Concen: 0.373 ppbv m

RT: 12.355 min Scan# 3033

Delta R.T. -0.016 min

Lab File: VL040189.D

Acq: 16 Feb 2023 22:19

Instrument :

MSVOA_L

ClientSampleId :

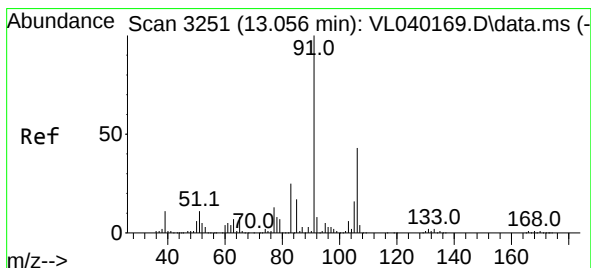
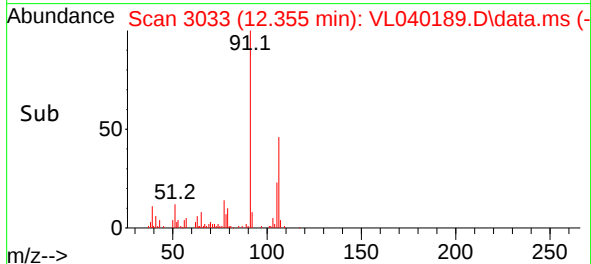
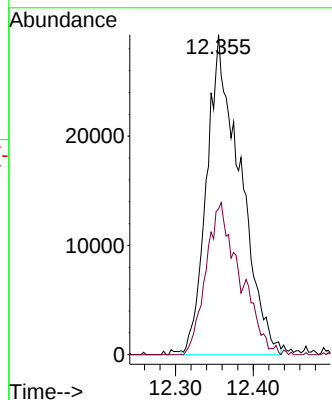
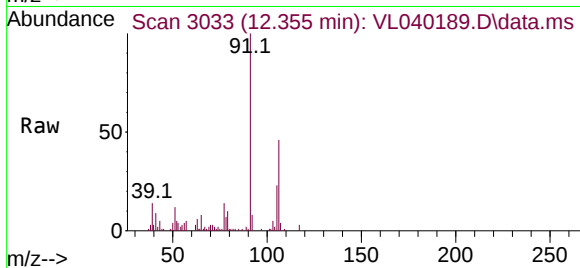
SVP-05DL

Tgt Ion: 91 Resp: 87490

Ion Ratio Lower Upper

91 100

106 0.0 34.6 51.8#



#60

o-Xylene

Concen: 0.172 ppbv m

RT: 13.063 min Scan# 3253

Delta R.T. 0.006 min

Lab File: VL040189.D

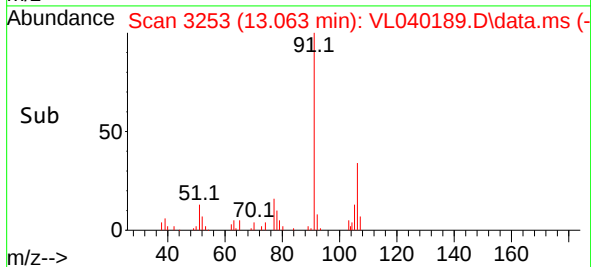
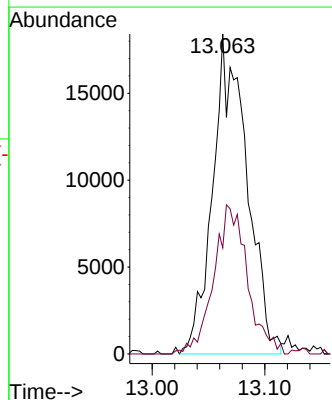
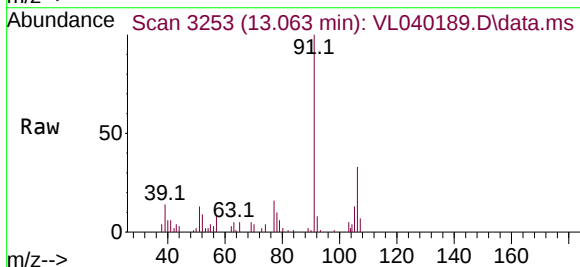
Acq: 16 Feb 2023 22:19

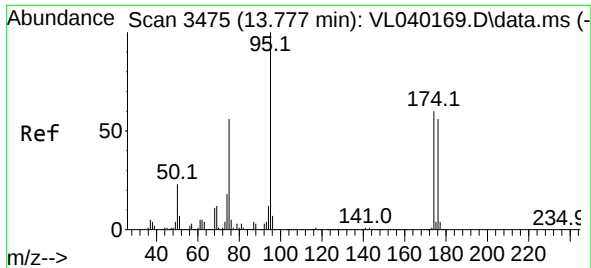
Tgt Ion: 91 Resp: 38877

Ion Ratio Lower Upper

91 100

106 46.2 21.6 65.0





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.136 ppbv
 RT: 13.789 min Scan# 34
 Delta R.T. 0.013 min
 Lab File: VL040189.D
 Acq: 16 Feb 2023 22:19

Instrument :
 MSVOA_L
 ClientSampleId :
 SVP-05DL

Tgt Ion: 95 Resp: 1637788
 Ion Ratio Lower Upper
 95 100
 174 65.8 48.2 72.2
 175 4.7 3.4 5.2

