

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL021319\
 Data File : VL033193.D
 Acq On : 13 Feb 2019 19:07
 Operator : SY/AP
 Sample : K1408-04
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 FM-IA

Manual Integrations
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 2/20/2019 12:24:06 PM

Quant Time: Feb 20 07:59:21 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL020519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Wed Feb 20 2019
 QLast Update : Wed Feb 20 06:00:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	973372	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2209200	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2143818	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1744573	10.44	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.07	85	50588	0.272	ppbv	99
3) Chlorodifluoromethane	3.01	51	20275738	172.999	ppbv #	52
4) Chloromethane	3.17	50	35692	0.577	ppbv	89
10) Heptane	8.25	43	33284m	0.194	ppbv	
11) Trichlorofluoromethane	4.00	101	36819	0.244	ppbv	97
13) Ethanol	3.65	45	1908920	99.212	ppbv	97
15) Acetone	3.90	43	1286092	11.728	ppbv	92
19) Isopropyl Alcohol	4.03	45	213956	2.877	ppbv #	1
20) Methylene Chloride	4.41	84	121067	2.775	ppbv	98
26) Hexane	5.78	57	480400	4.150	ppbv	83
29) Chloroform	5.85	83	90770	0.512	ppbv	92
30) Cyclohexane	7.25	84	14270m	0.133	ppbv	
34) 2-Butanone	5.33	43	168231	1.201	ppbv	99
35) Carbon Tetrachloride	7.14	117	11135m	0.066	ppbv	
36) Benzene	7.00	78	74360	0.332	ppbv	99
41) Tetrahydrofuran	6.15	42	71729m	0.828	ppbv	
44) 2,2,4-Trimethylpentane	7.99	57	45729m	0.121	ppbv	
52) Tetrachloroethene	11.38	164	69525	0.808	ppbv	96
53) Toluene	9.95	91	667159	2.516	ppbv	100
58) Ethyl Benzene	12.86	91	46363m	0.132	ppbv	
59) m/p-Xylene	13.13	91	104254m	0.356	ppbv	
60) o-Xylene	13.85	91	33960	0.119	ppbv	98
61) Styrene	13.69	104	45751	0.212	ppbv	97
69) p-Isopropyltoluene	17.82	119	65237m	0.154	ppbv	

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

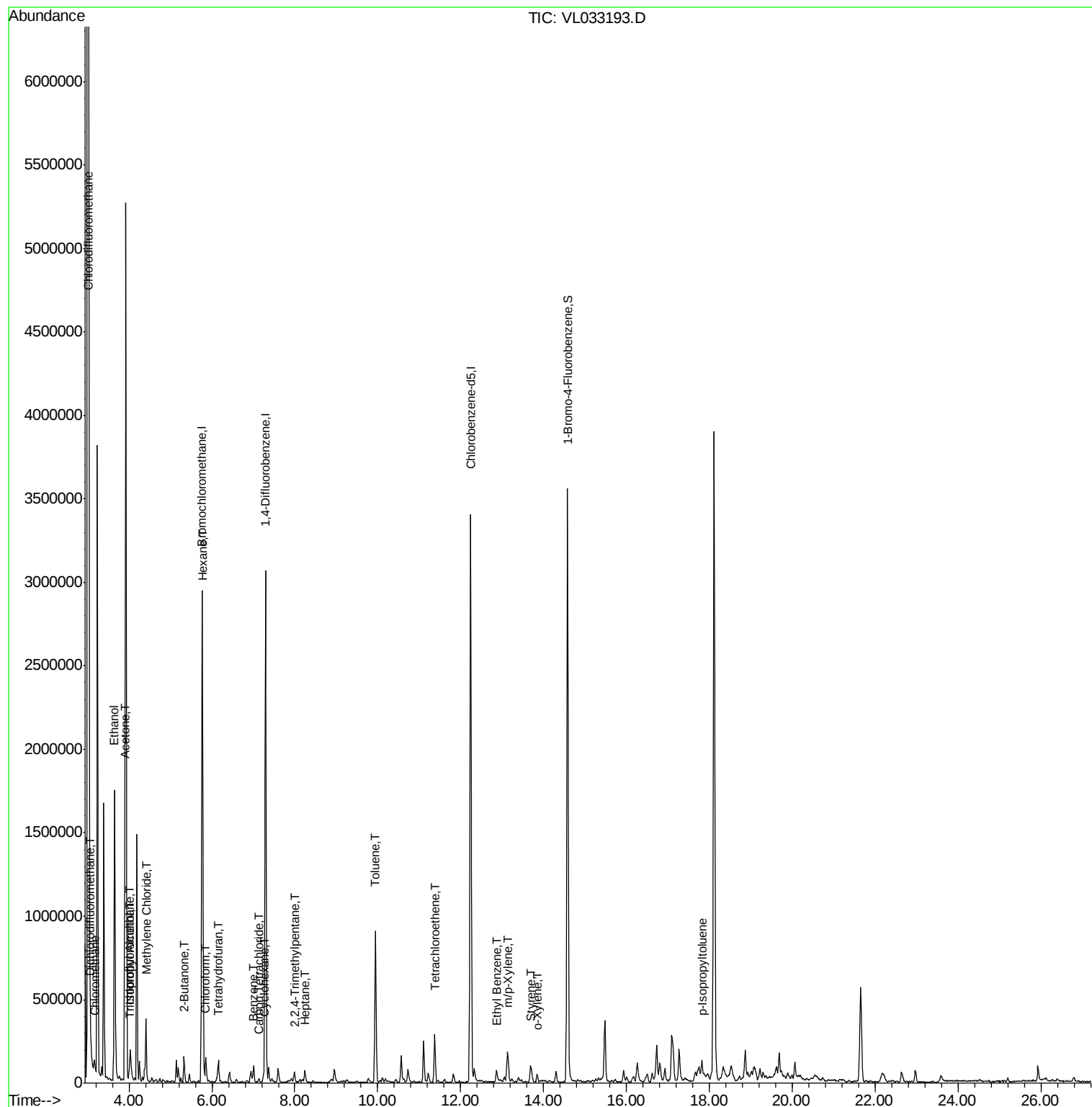
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_L\DATA\VL021319\
Data File : VL033193.D
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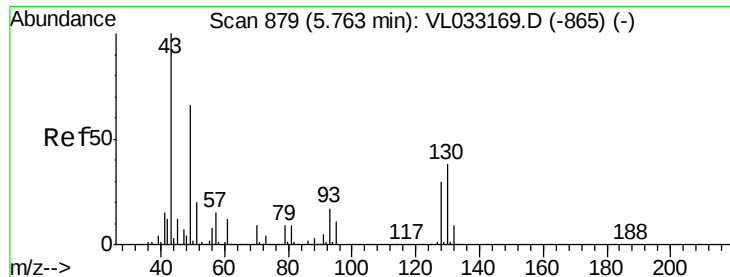
Instrument :
MSVOA_L
ClientSampleId :
FM-IA

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Quant Time: Feb 20 07:59:21 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL020519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Feb
QLast Update : Wed Feb 20 06:00:52 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.00 min

Lab File: VL033193.D

Acq: 13 Feb 2019 19:07

Instrument :

MSVOA_L

ClientSampled :

FM-IA

Tgt Ion: 49 Resp: 973372

Ion Ratio Lower Upper

49 100

128 45.4 23.6 71.0

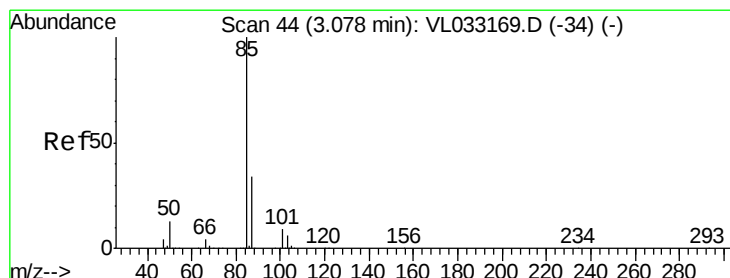
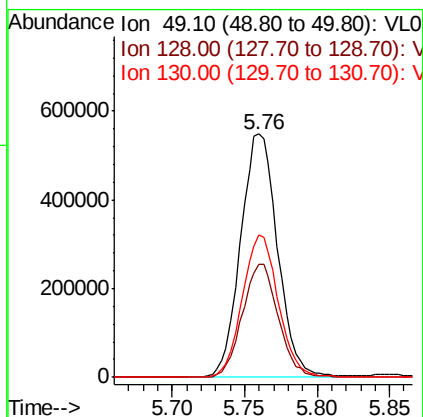
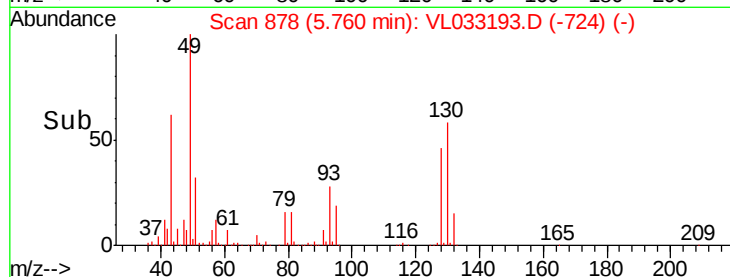
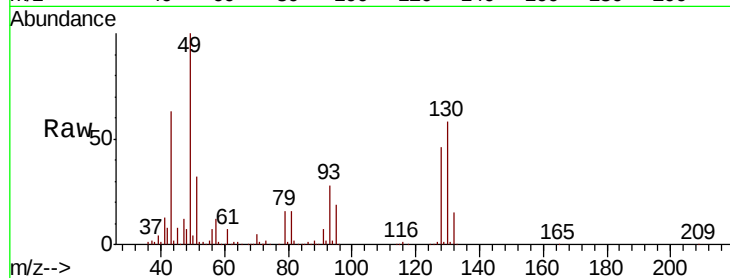
130 57.3 30.3 91.0

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#2

Dichlorodifluoromethane

Concen: 0.272 ppbv

RT: 3.07 min Scan# 43

Delta R.T. -0.00 min

Lab File: VL033193.D

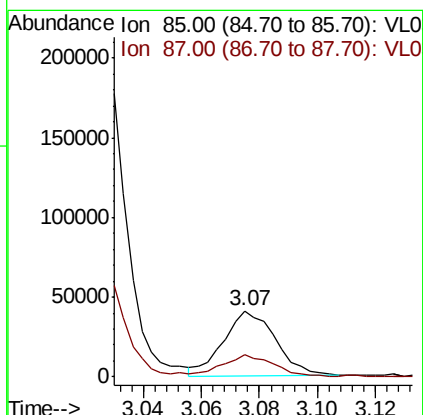
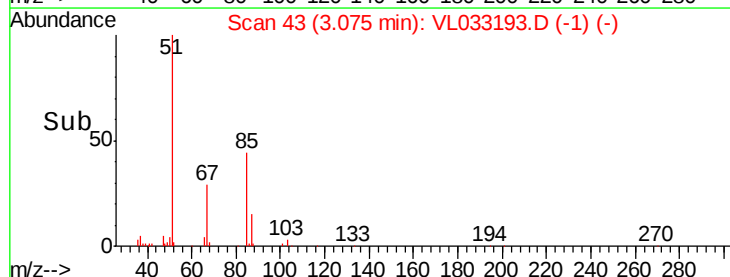
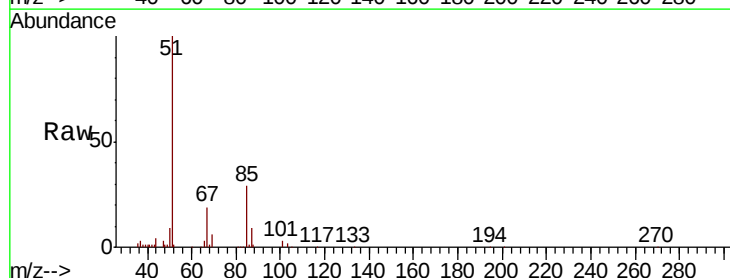
Acq: 13 Feb 2019 19:07

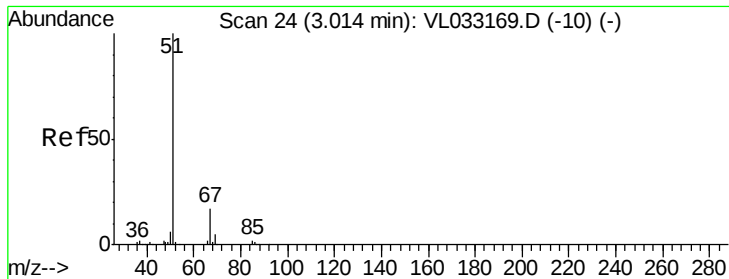
Tgt Ion: 85 Resp: 50588

Ion Ratio Lower Upper

85 100

87 33.9 27.4 41.2





#3

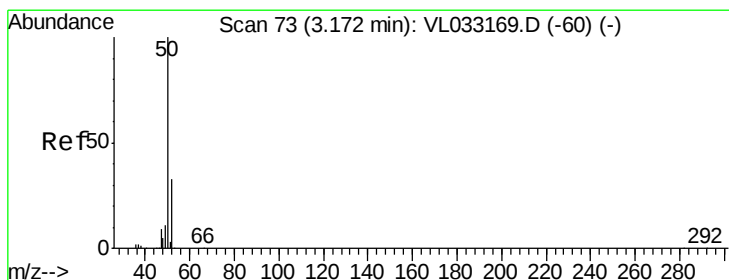
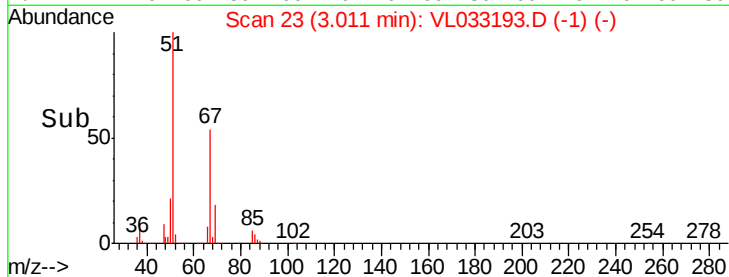
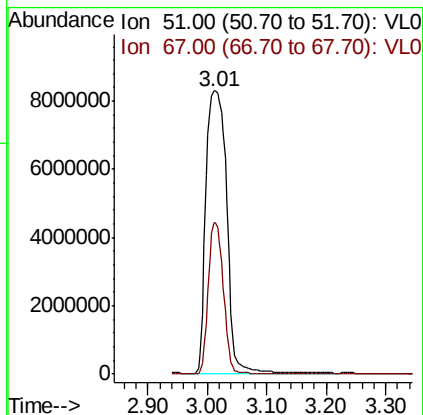
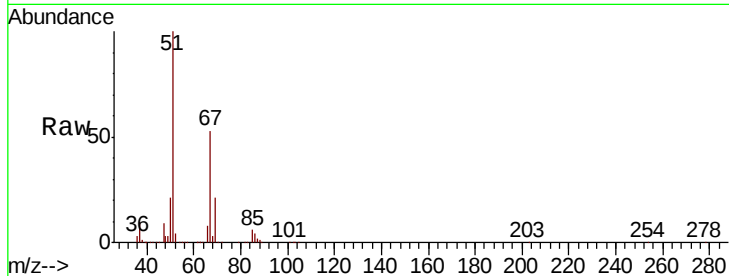
Chlorodifluoromethane
 Concen: 172.999 ppbv
 RT: 3.01 min Scan# 23
 Delta R.T. -0.00 min
 Lab File: VL033193.D
 Acq: 13 Feb 2019 19:07

Instrument :
 MSVOA_L
 ClientSampleId :
 FM-IA

Tgt Ion: 51 Resp: 20275738
 Ion Ratio Lower Upper
 51 100
 67 38.6 14.0 21.0#

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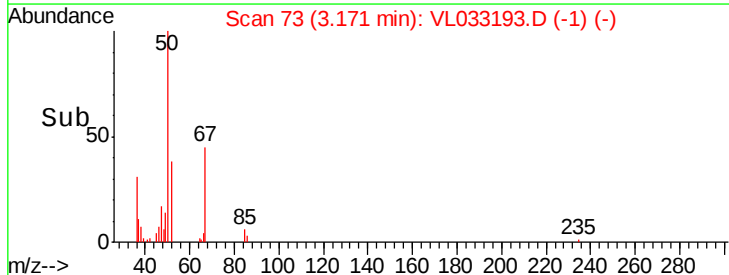
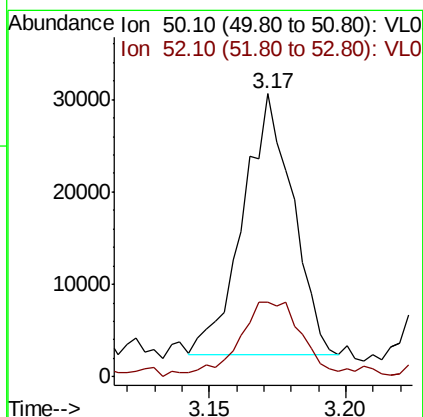
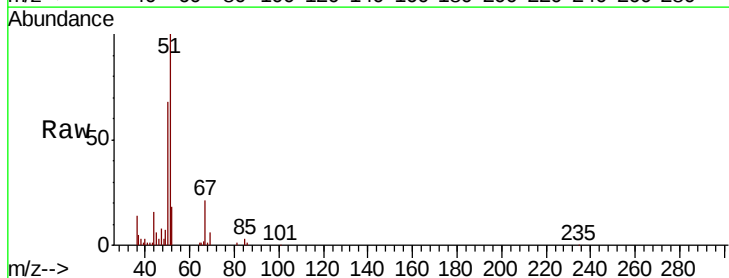
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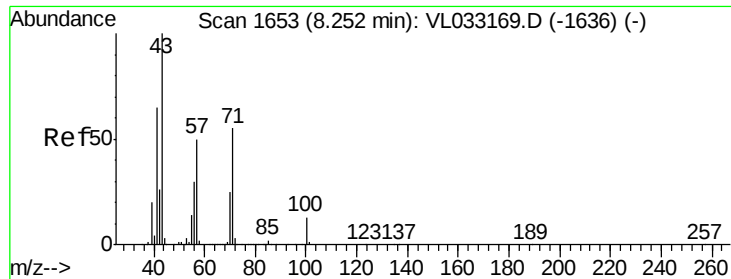


#4

Chloromethane
 Concen: 0.577 ppbv
 RT: 3.17 min Scan# 73
 Delta R.T. -0.00 min
 Lab File: VL033193.D
 Acq: 13 Feb 2019 19:07

Tgt Ion: 50 Resp: 35692
 Ion Ratio Lower Upper
 50 100
 52 27.1 26.5 39.7





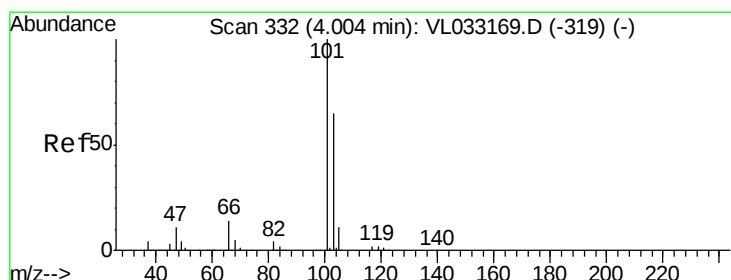
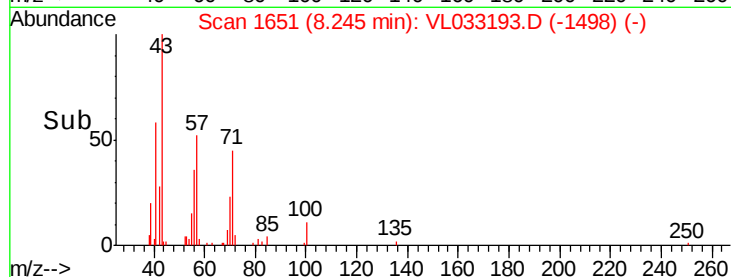
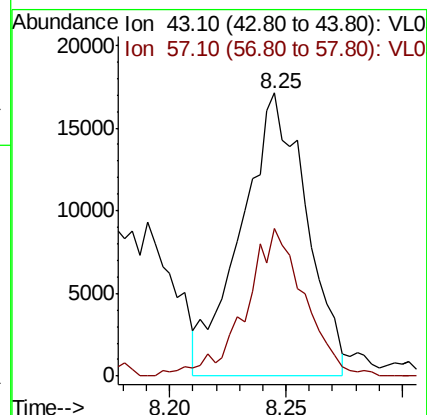
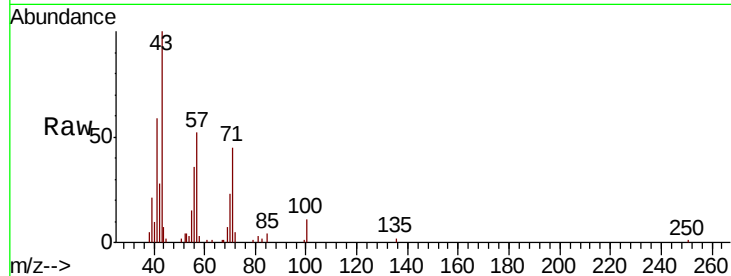
#10
 Heptane
 Concen: 0.194 ppbv m
 RT: 8.25 min Scan# 1651
 Delta R.T. -0.01 min
 Lab File: VL033193.D
 Acq: 13 Feb 2019 19:07

Instrument :
 MSVOA_L
 ClientSampled :
 FM-IA

Tgt Ion: 43 Resp: 33284
 Ion Ratio Lower Upper
 43 100
 57 47.1 39.5 59.3

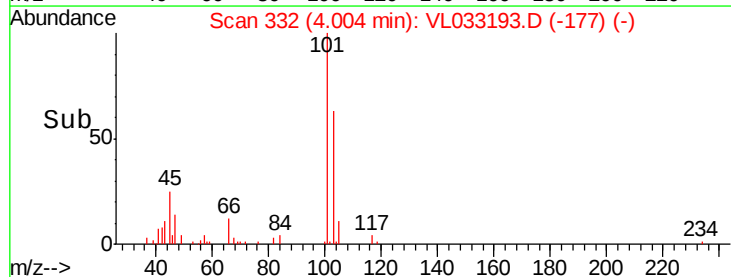
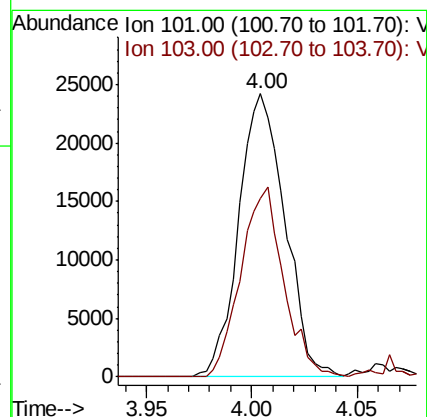
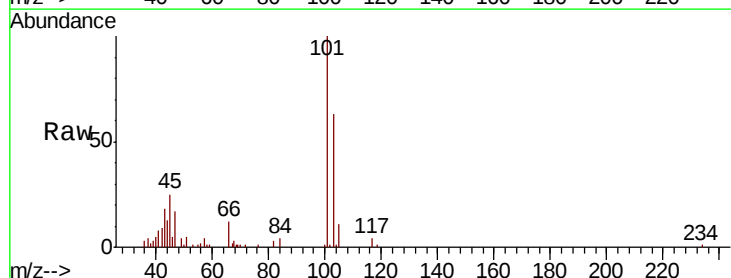
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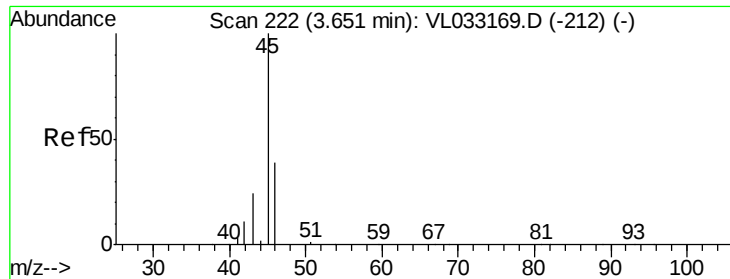
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#11
 Trichlorofluoromethane
 Concen: 0.244 ppbv
 RT: 4.00 min Scan# 332
 Delta R.T. -0.00 min
 Lab File: VL033193.D
 Acq: 13 Feb 2019 19:07

Tgt Ion: 101 Resp: 36819
 Ion Ratio Lower Upper
 101 100
 103 62.2 51.7 77.5





#13

Ethanol

Concen: 99.212 ppbv

RT: 3.65 min Scan# 222

Delta R.T. -0.00 min

Lab File: VL033193.D

Acq: 13 Feb 2019 19:07

Instrument :

MSVOA_L

ClientSampled :

FM-IA

Tgt Ion: 45 Resp: 1908920

Ion Ratio Lower Upper

45 100

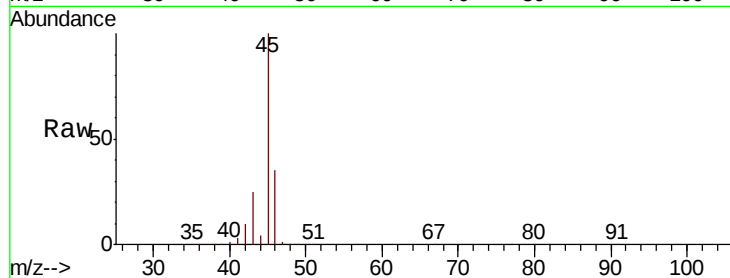
46 35.7 15.0 60.2

Manual Integrations

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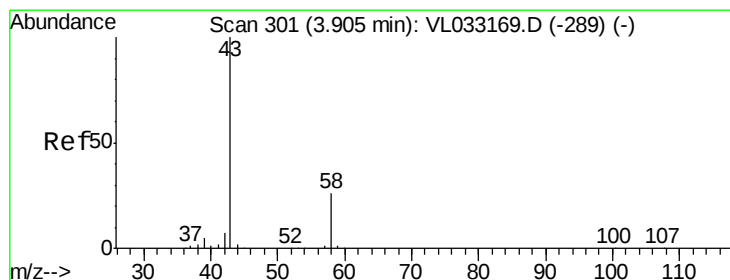
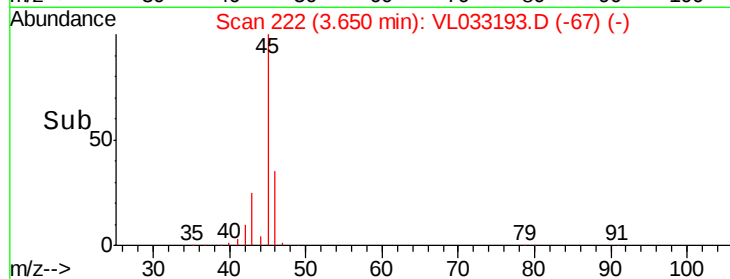
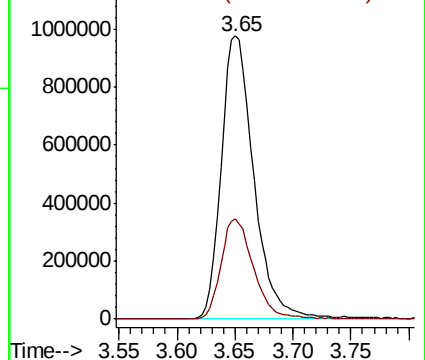
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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



#15

Acetone

Concen: 11.728 ppbv

RT: 3.90 min Scan# 299

Delta R.T. -0.01 min

Lab File: VL033193.D

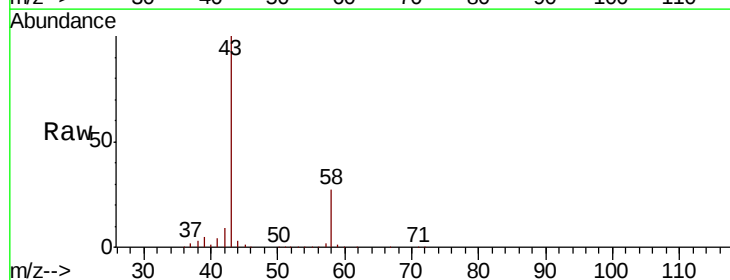
Acq: 13 Feb 2019 19:07

Tgt Ion: 43 Resp: 1286092

Ion Ratio Lower Upper

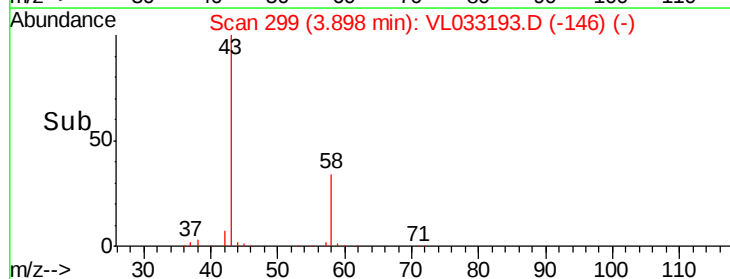
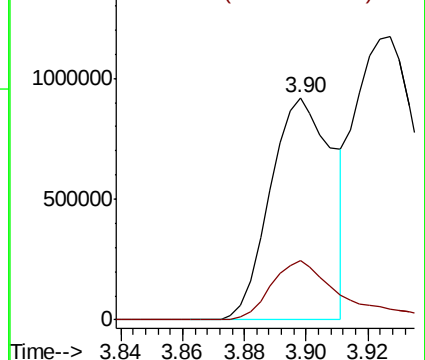
43 100

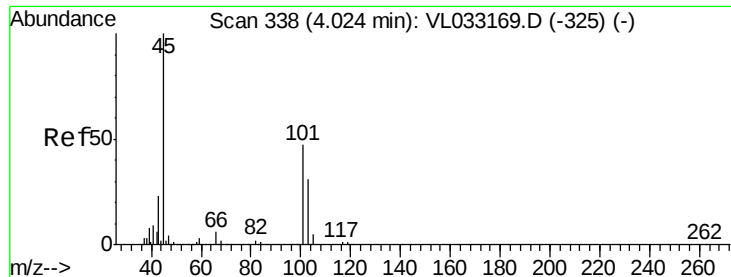
58 30.5 21.1 31.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





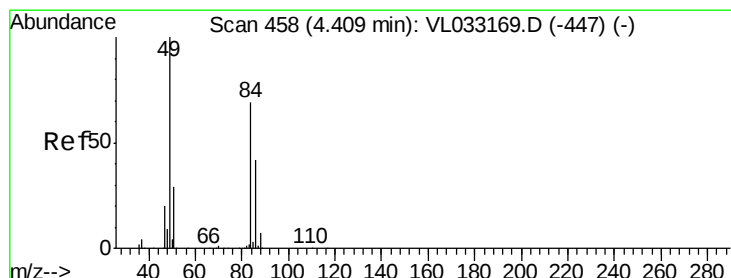
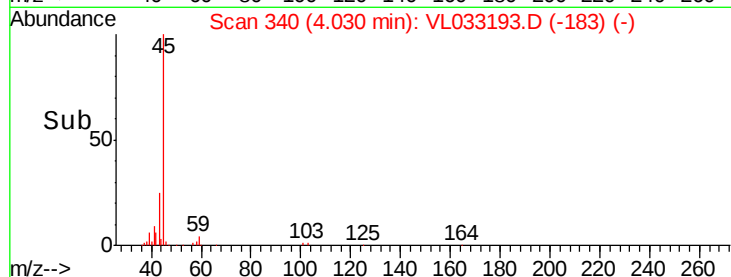
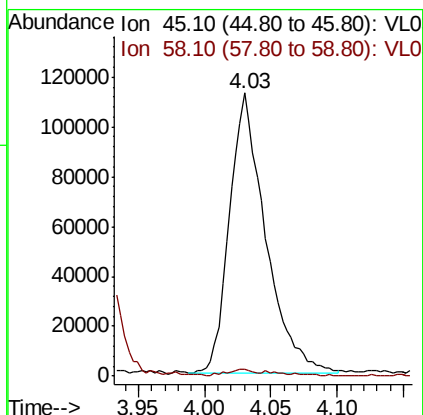
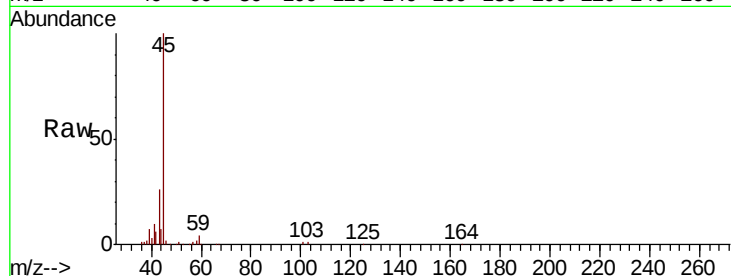
#19
Isopropyl Alcohol
Concen: 2.877 ppbv
RT: 4.03 min Scan# 340
Delta R.T. 0.01 min
Lab File: VL033193.D
Acq: 13 Feb 2019 19:07

Instrument :
MSVOA_L
ClientSampleId :
FM-IA

Tgt Ion: 45 Resp: 213956
Ion Ratio Lower Upper
45 100
58 183.2 1.5 2.3#

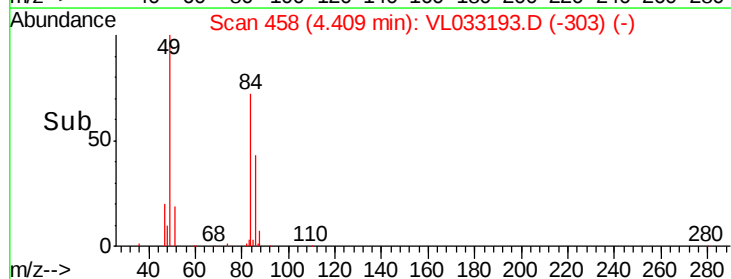
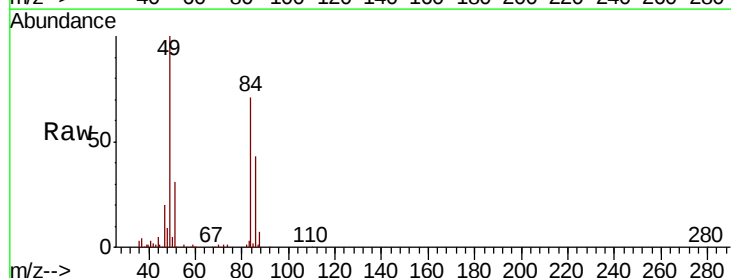
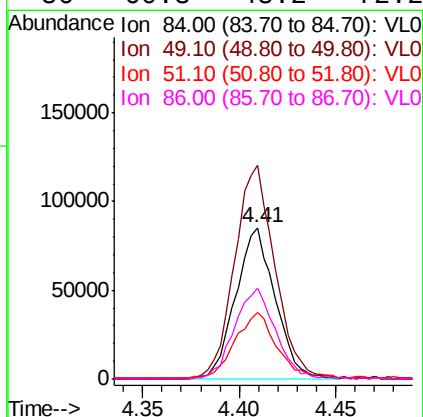
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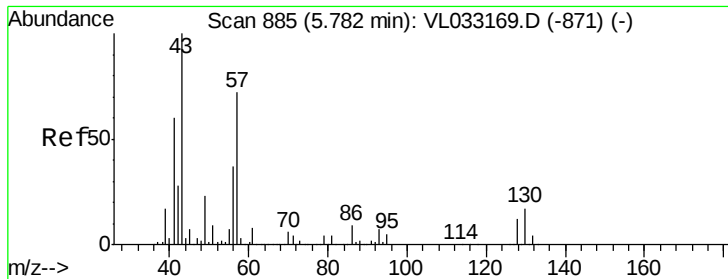
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#20
Methylene Chloride
Concen: 2.775 ppbv
RT: 4.41 min Scan# 458
Delta R.T. -0.00 min
Lab File: VL033193.D
Acq: 13 Feb 2019 19:07

Tgt Ion: 84 Resp: 121067
Ion Ratio Lower Upper
84 100
49 141.4 115.8 173.8
51 43.4 33.0 49.6
86 60.3 48.2 72.2





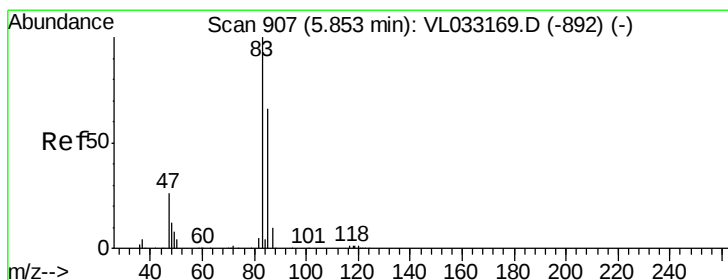
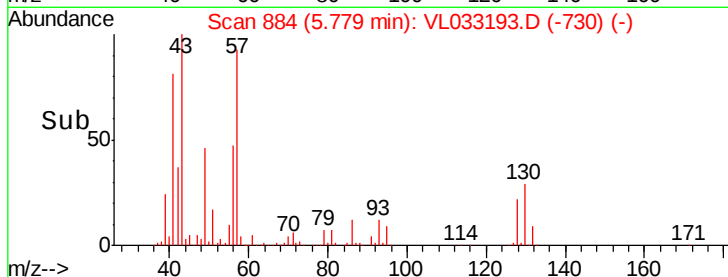
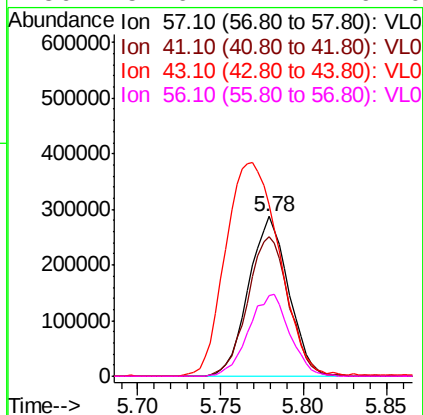
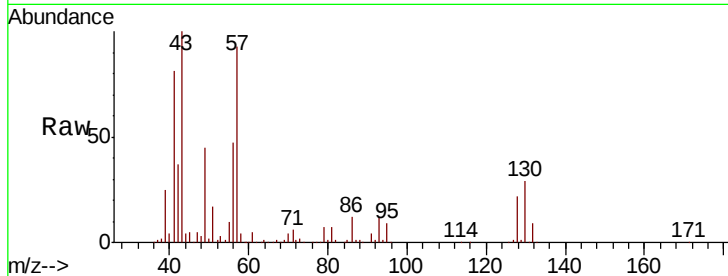
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Hexane
Concen: 4.150 ppbv
RT: 5.78 min Scan# 884
Delta R.T. -0.00 min
Lab File: VL033193.D
Acq: 13 Feb 2019 19:07

Instrument :
MSVOA_L
ClientSampled :
FM-IA

Tgt Ion	Ratio	Lower	Upper
57	100		
41	90.2	69.4	104.2
43	179.8	176.7	265.1
56	52.6	41.4	62.0

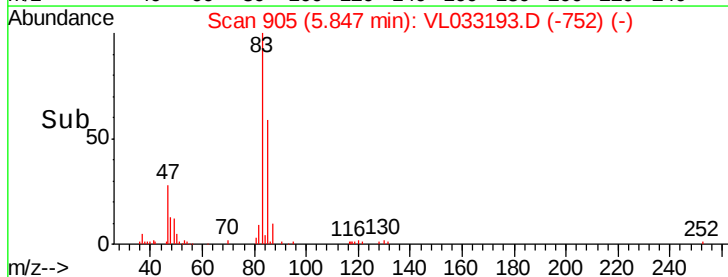
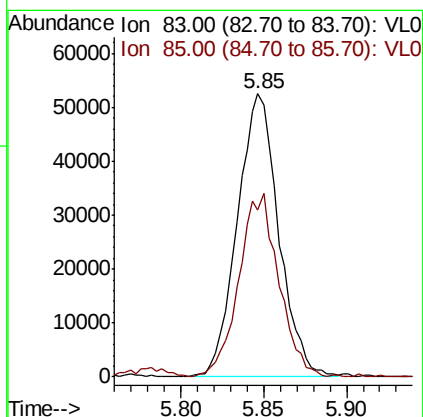
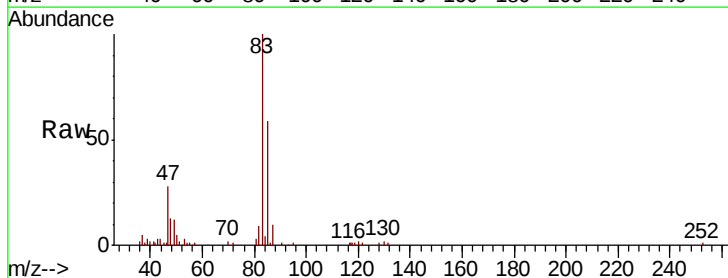
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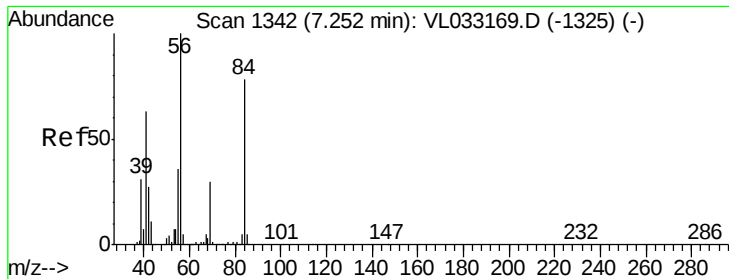
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#29
Chloroform
Concen: 0.512 ppbv
RT: 5.85 min Scan# 905
Delta R.T. -0.01 min
Lab File: VL033193.D
Acq: 13 Feb 2019 19:07

Tgt Ion	Ratio	Lower	Upper
83	100		
85	59.2	52.6	78.8





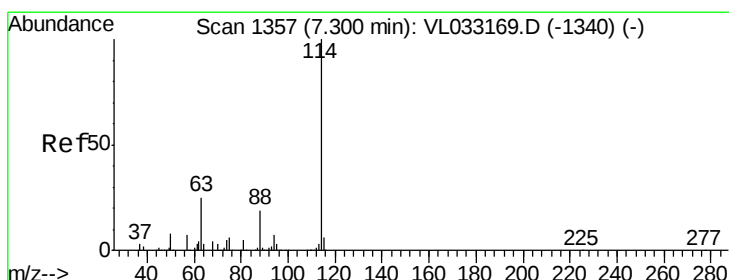
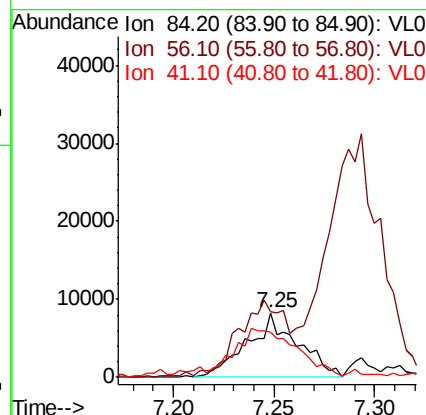
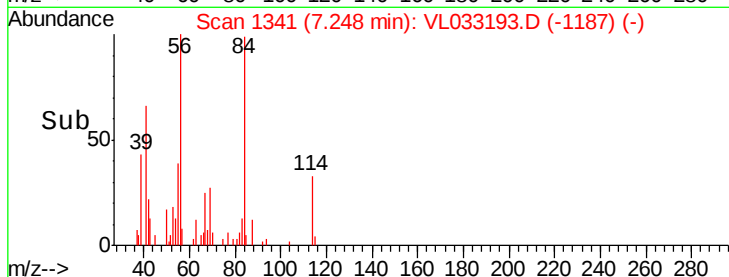
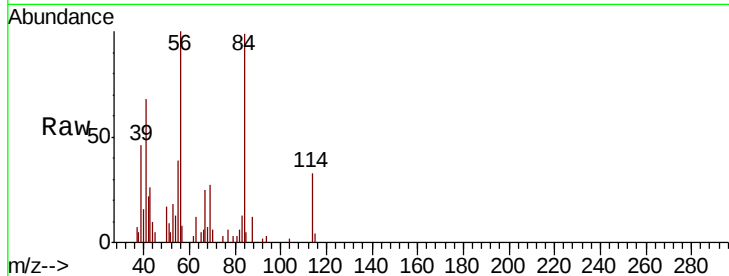
#30
Cyclohexane
Concen: 0.133 ppbv m
RT: 7.25 min Scan# 1341
Delta R.T. -0.00 min
Lab File: VL033193.D
Acq: 13 Feb 2019 19:07

Instrument :
MSVOA_L
ClientSampleId :
FM-IA

Tgt Ion	Ratio	Lower	Upper
84	100		
56	0.0	109.5	164.3#
41	0.0	66.6	100.0#

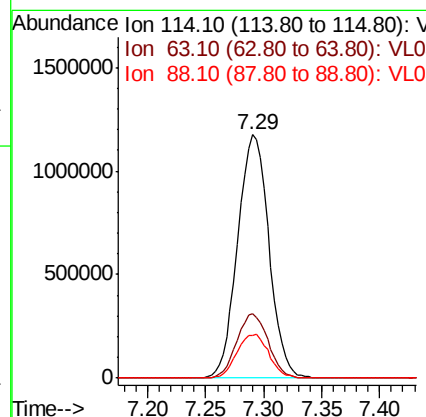
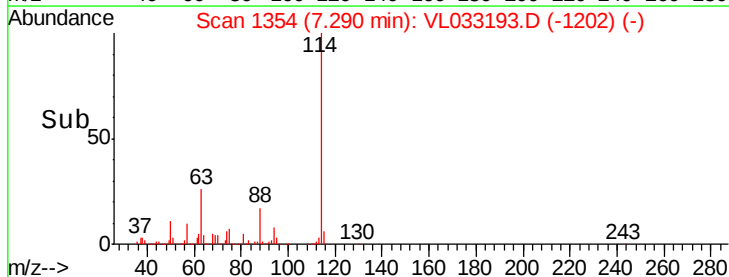
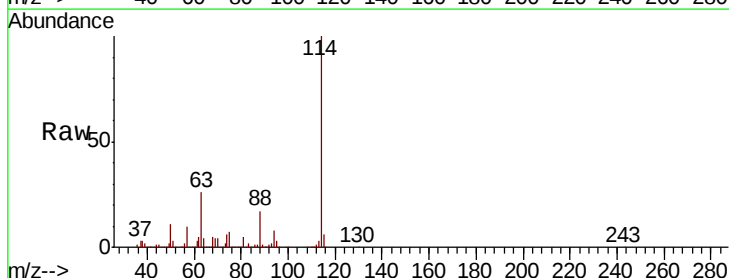
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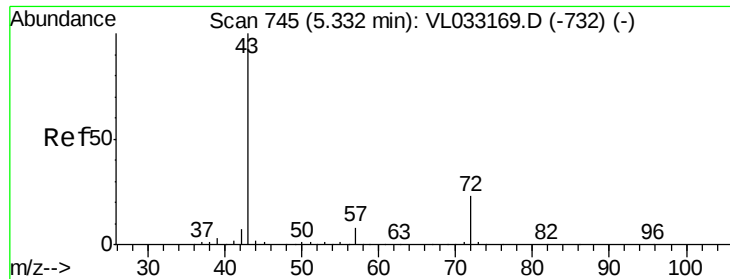
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.29 min Scan# 1354
Delta R.T. -0.01 min
Lab File: VL033193.D
Acq: 13 Feb 2019 19:07

Tgt Ion	Ratio	Lower	Upper
114	100		
63	26.6	20.8	31.2
88	18.3	14.6	22.0





#34

2-Butanone

Concen: 1.201 ppbv

RT: 5.33 min Scan# 744

Delta R.T. -0.00 min

Lab File: VL033193.D

Acq: 13 Feb 2019 19:07

Instrument :

MSVOA_L

ClientSampled :

FM-IA

Tgt Ion: 43 Resp: 168231

Ion Ratio Lower Upper

43 100

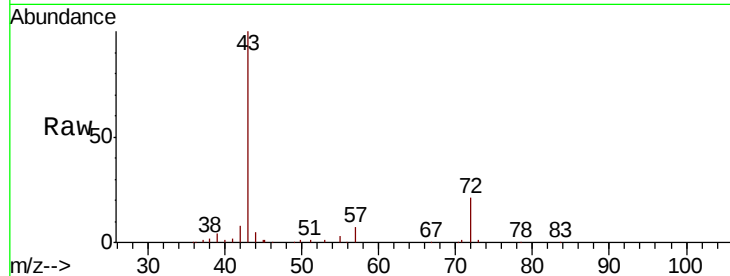
72 21.9 17.8 26.6

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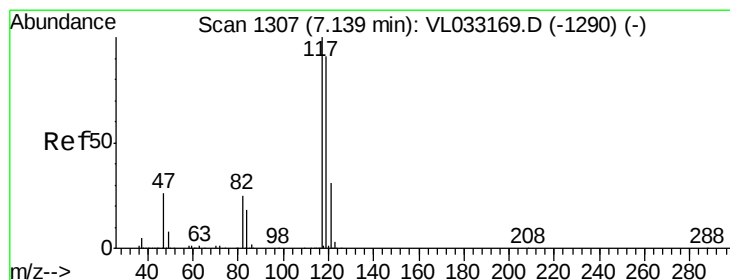
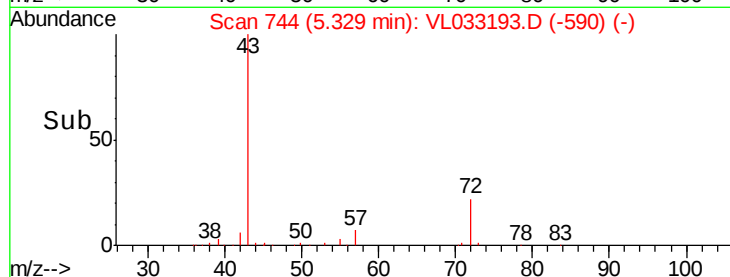
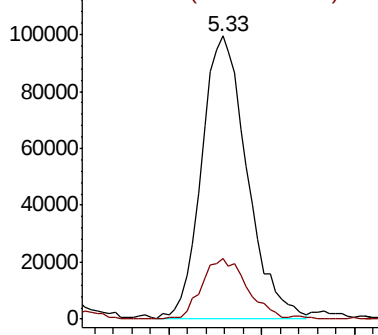
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0



#35

Carbon Tetrachloride

Concen: 0.066 ppbv m

RT: 7.14 min Scan# 1307

Delta R.T. -0.00 min

Lab File: VL033193.D

Acq: 13 Feb 2019 19:07

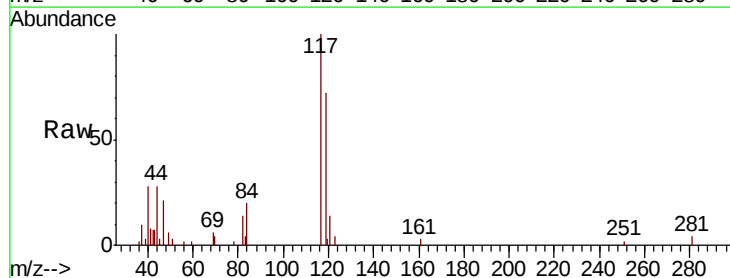
Tgt Ion: 117 Resp: 11135

Ion Ratio Lower Upper

117 100

119 71.9 73.0 109.6#

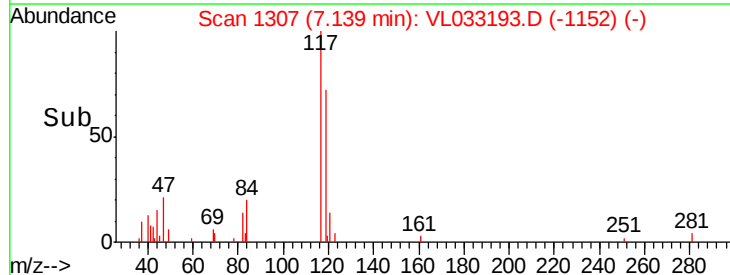
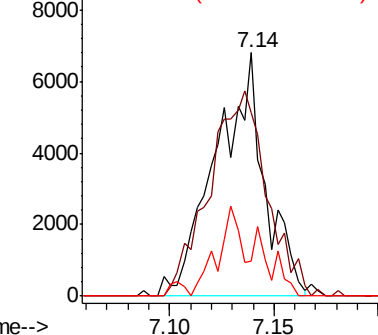
121 14.1 25.1 37.7#

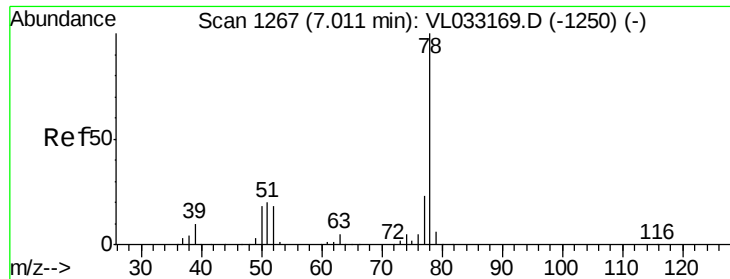


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V





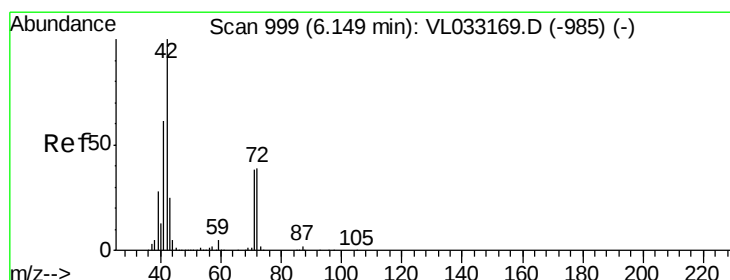
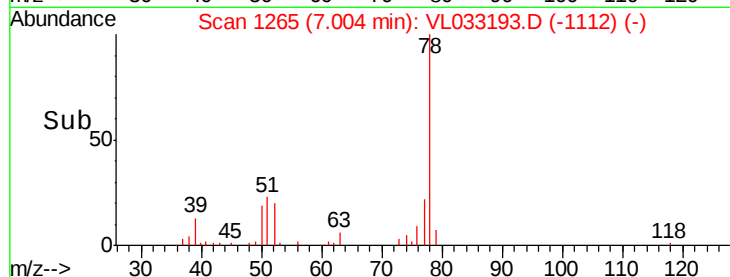
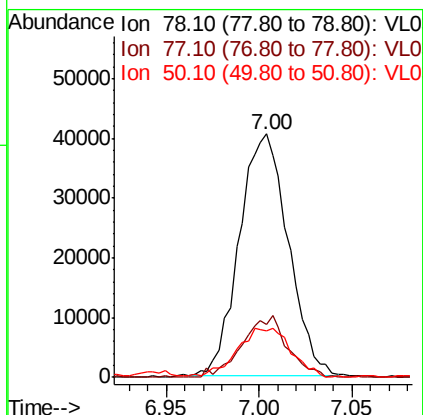
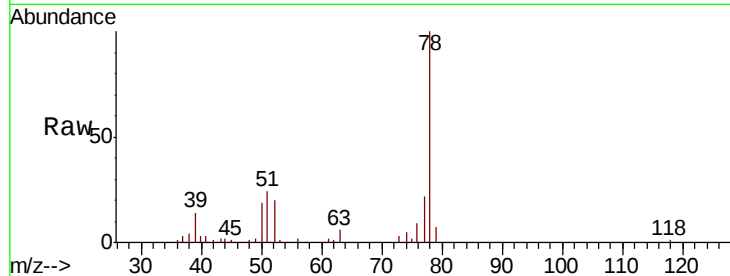
#36
Benzene
Concen: 0.332 ppbv
RT: 7.00 min Scan# 1265
Delta R.T. -0.01 min
Lab File: VL033193.D
Acq: 13 Feb 2019 19:07

Instrument :
MSVOA_L
ClientSampled :
FM-IA

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.2	18.0	27.0
50	18.7	14.2	21.2

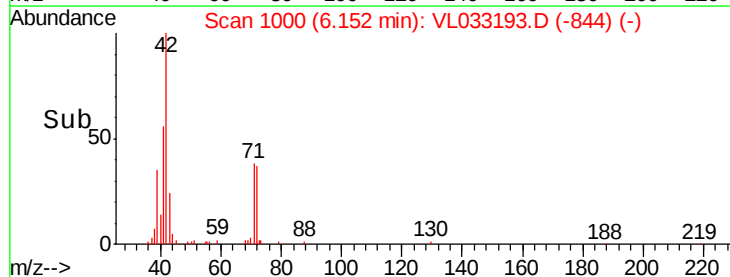
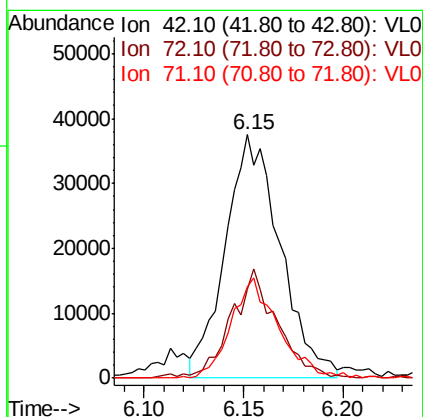
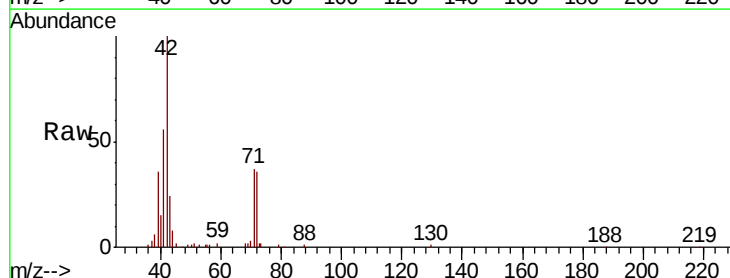
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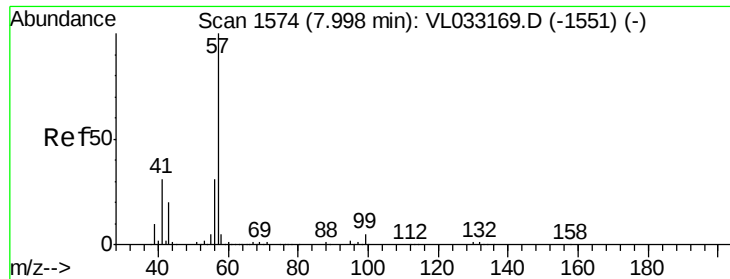
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#41
Tetrahydrofuran
Concen: 0.828 ppbv m
RT: 6.15 min Scan# 1000
Delta R.T. 0.00 min
Lab File: VL033193.D
Acq: 13 Feb 2019 19:07

Tgt Ion	Ratio	Lower	Upper
42	100		
72	0.0	31.4	47.2#
71	0.0	30.2	45.2#





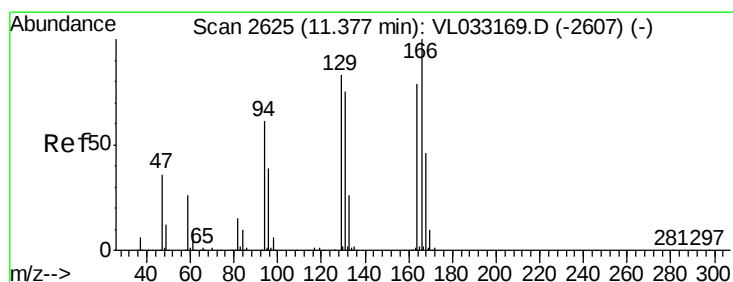
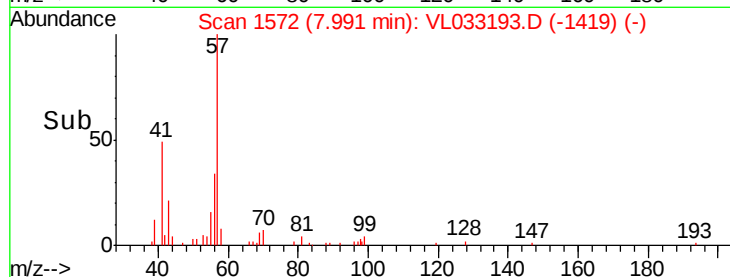
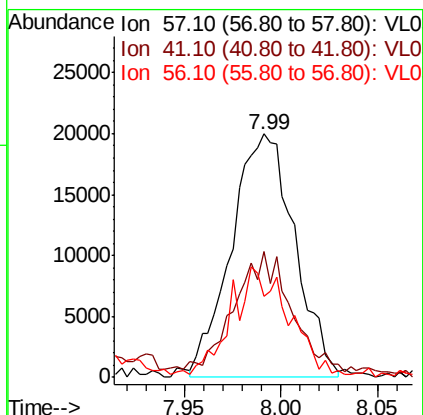
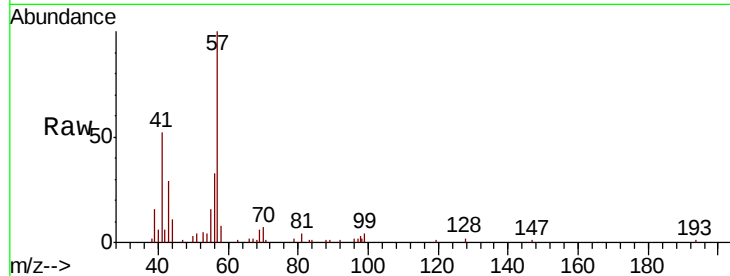
#44
 2,2,4-Trimethylpentane
 Concen: 0.121 ppbv m
 RT: 7.99 min Scan# 1572
 Delta R.T. -0.01 min
 Lab File: VL033193.D
 Acq: 13 Feb 2019 19:07

Instrument :
 MSVOA_L
 ClientSampleId :
 FM-IA

Tgt Ion	Ratio	Lower	Upper
57	100		
41	49.7	25.2	37.8#
56	39.7	24.5	36.7#

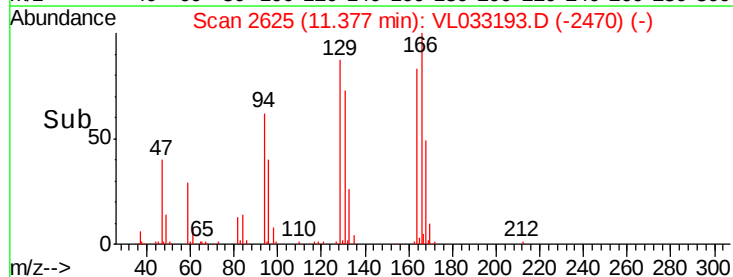
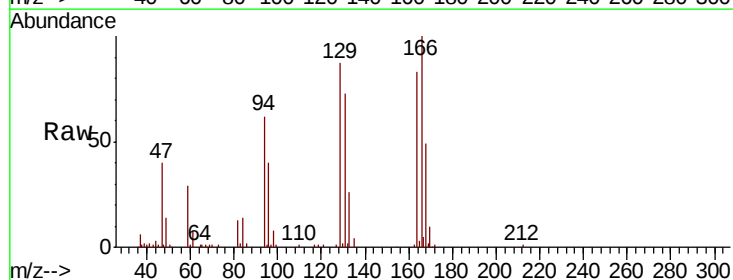
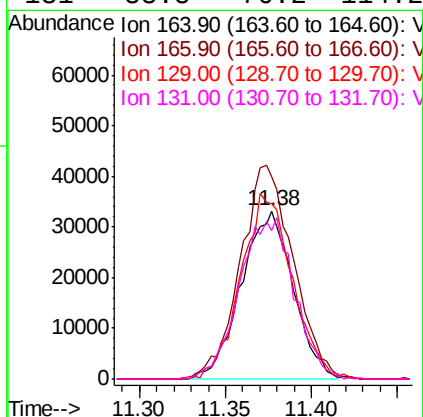
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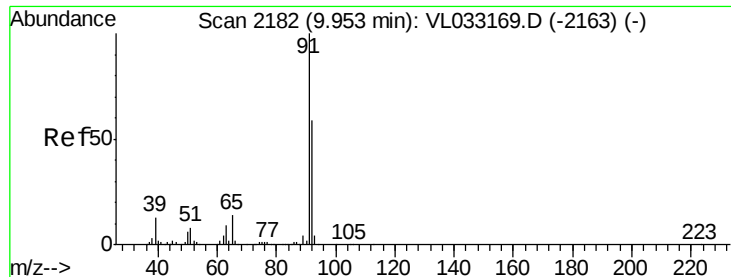
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#52
 Tetrachloroethene
 Concen: 0.808 ppbv
 RT: 11.38 min Scan# 2625
 Delta R.T. -0.00 min
 Lab File: VL033193.D
 Acq: 13 Feb 2019 19:07

Tgt Ion	Ratio	Lower	Upper
164	100		
166	120.7	100.9	151.3
129	105.3	83.9	125.9
131	88.5	76.2	114.2





#53

Toluene

Concen: 2.516 ppbv

RT: 9.95 min Scan# 2180

Delta R.T. -0.01 min

Lab File: VL033193.D

Acq: 13 Feb 2019 19:07

Instrument :

MSVOA_L

ClientSampled :

FM-IA

Tgt Ion: 91 Resp: 667159

Ion Ratio Lower Upper

91 100

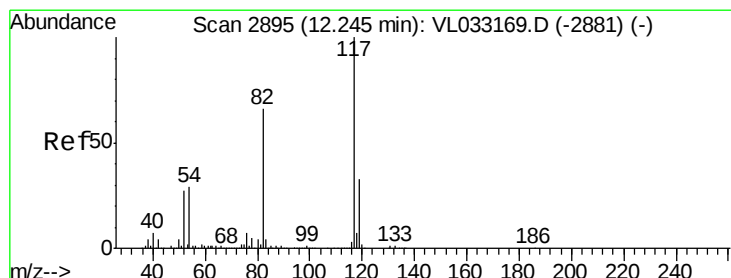
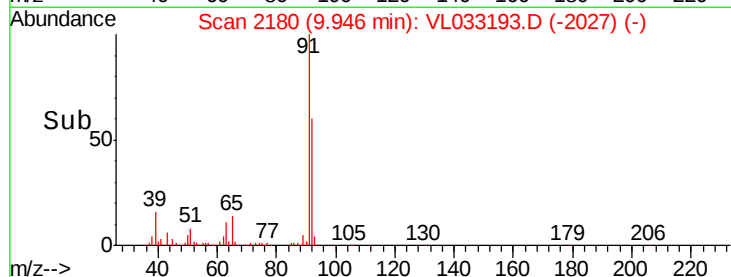
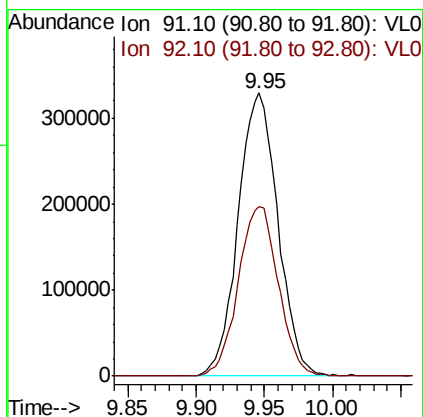
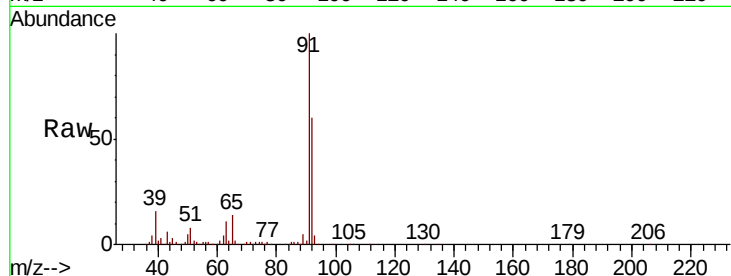
92 60.4 48.0 72.0

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2893

Delta R.T. -0.01 min

Lab File: VL033193.D

Acq: 13 Feb 2019 19:07

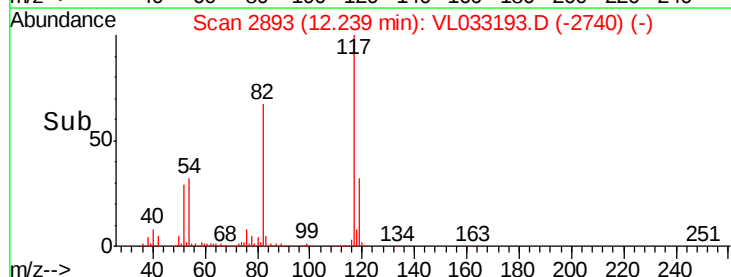
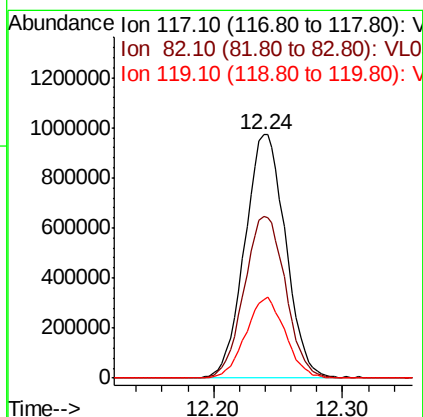
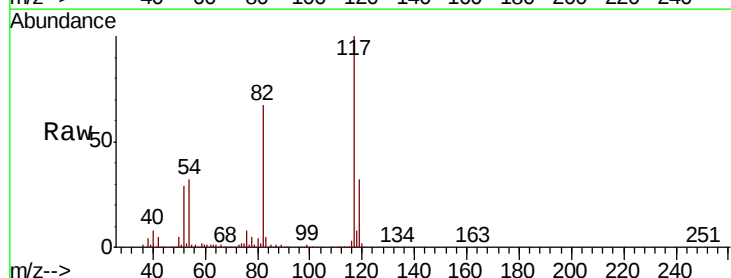
Tgt Ion: 117 Resp: 2143818

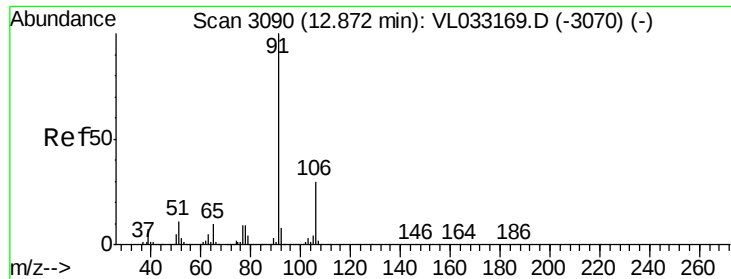
Ion Ratio Lower Upper

117 100

82 67.4 53.8 80.8

119 32.2 46.9 70.3#





#58

Ethyl Benzene

Concen: 0.132 ppbv m

RT: 12.86 min Scan# 3087

Delta R.T. -0.01 min

Lab File: VL033193.D

Acq: 13 Feb 2019 19:07

Instrument :

MSVOA_L

ClientSampled :

FM-IA

Tgt Ion: 91 Resp: 46363

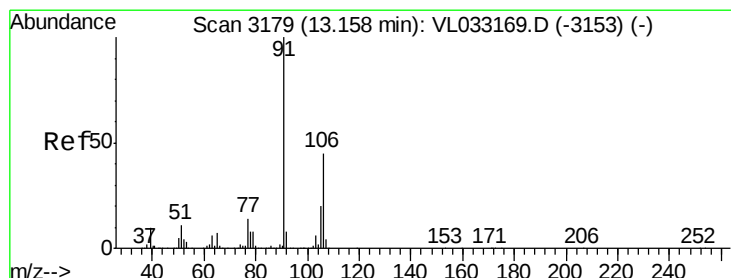
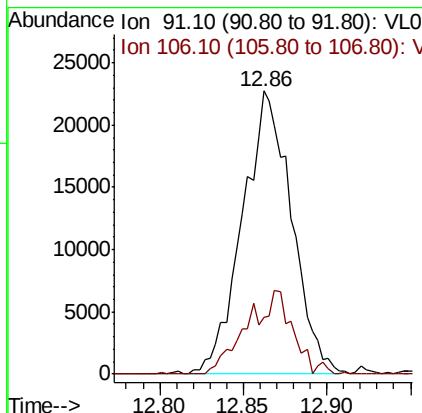
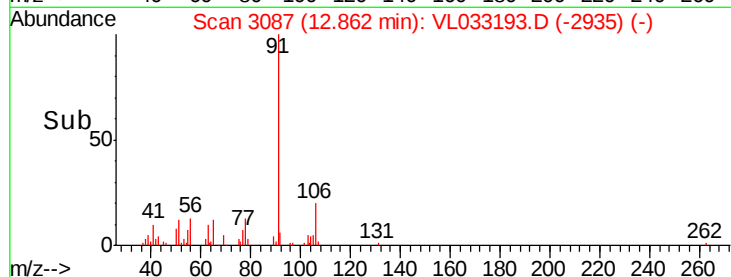
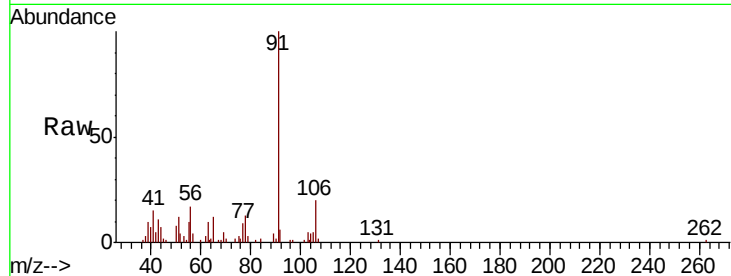
Ion Ratio Lower Upper

91 100

106 20.1 23.8 35.8#

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#59

m/p-Xylene

Concen: 0.356 ppbv m

RT: 13.13 min Scan# 3169

Delta R.T. -0.03 min

Lab File: VL033193.D

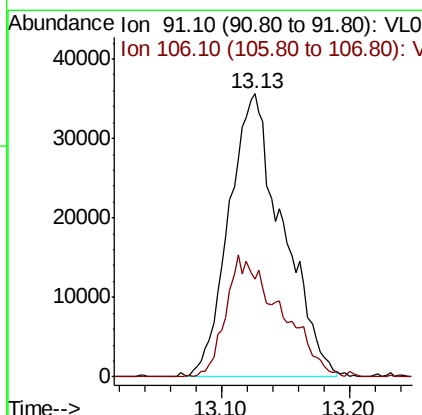
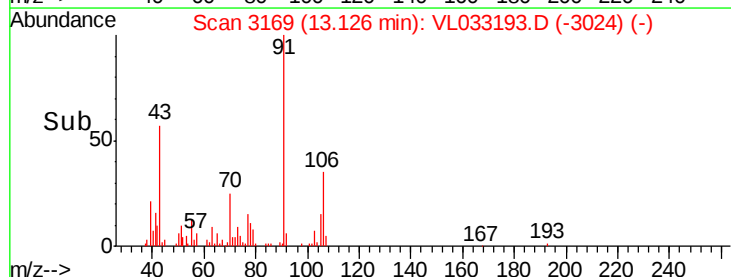
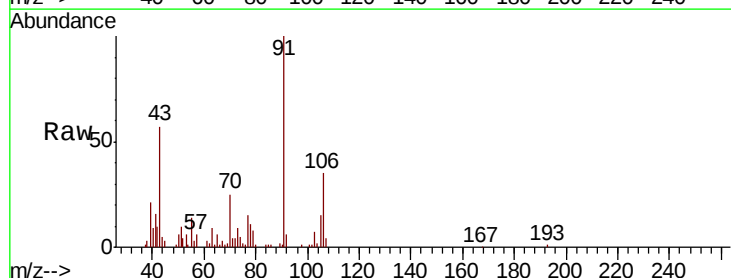
Acq: 13 Feb 2019 19:07

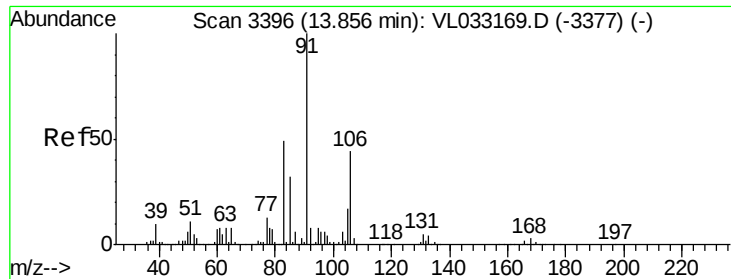
Tgt Ion: 91 Resp: 104254

Ion Ratio Lower Upper

91 100

106 0.0 36.6 55.0#





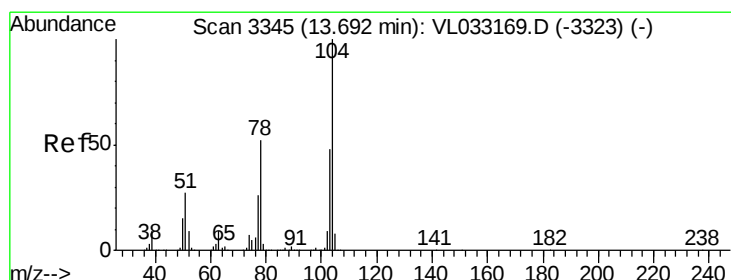
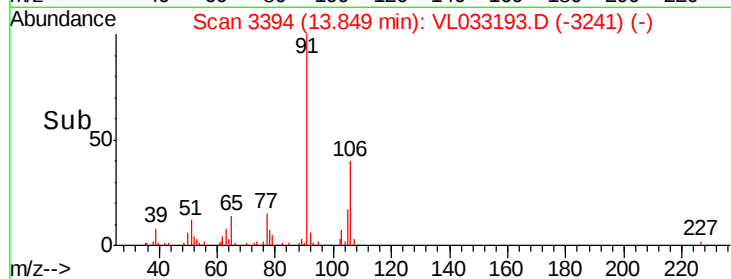
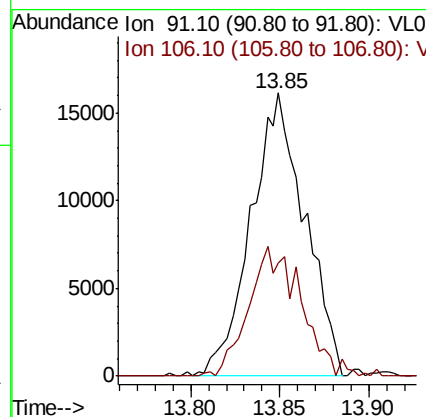
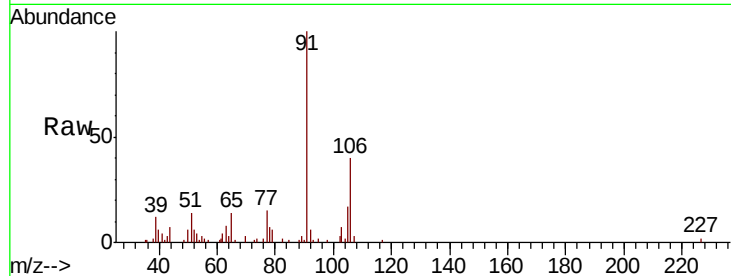
#60
o-Xylene
Concen: 0.119 ppbv
RT: 13.85 min Scan# 3394
Delta R.T. -0.01 min
Lab File: VL033193.D
Acq: 13 Feb 2019 19:07

Instrument :
MSVOA_L
ClientSampled :
FM-IA

Tgt Ion: 91 Resp: 33960
Ion Ratio Lower Upper
91 100
106 44.8 21.8 65.3

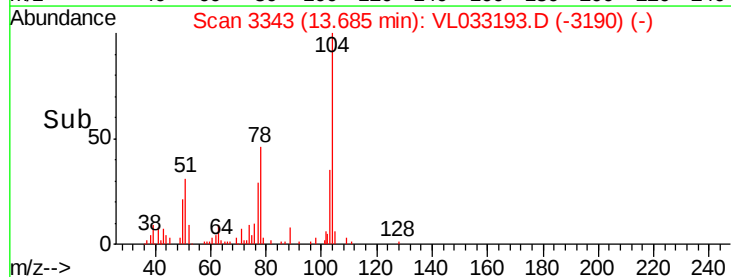
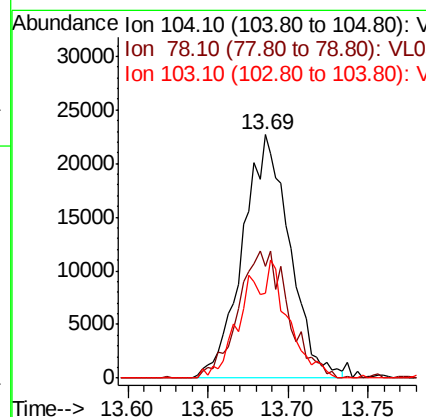
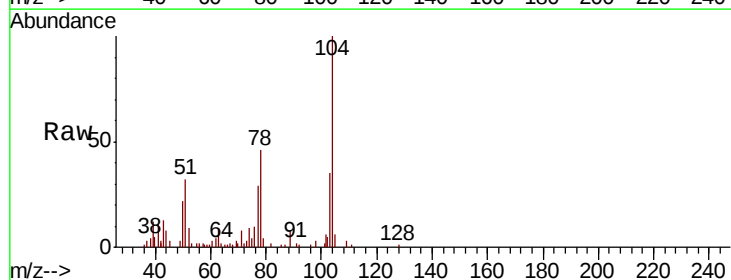
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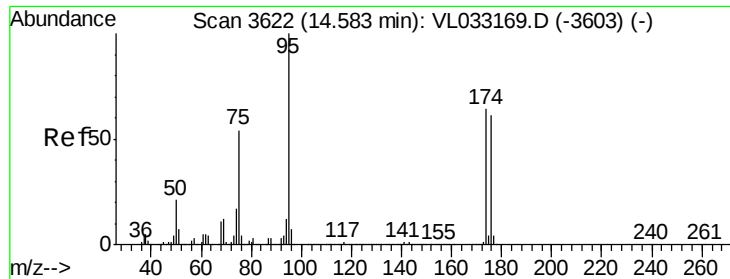
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#61
Styrene
Concen: 0.212 ppbv
RT: 13.69 min Scan# 3343
Delta R.T. -0.01 min
Lab File: VL033193.D
Acq: 13 Feb 2019 19:07

Tgt Ion: 104 Resp: 45751
Ion Ratio Lower Upper
104 100
78 55.3 41.9 62.9
103 46.3 37.9 56.9





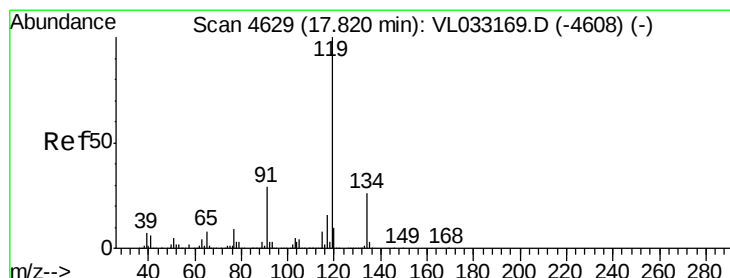
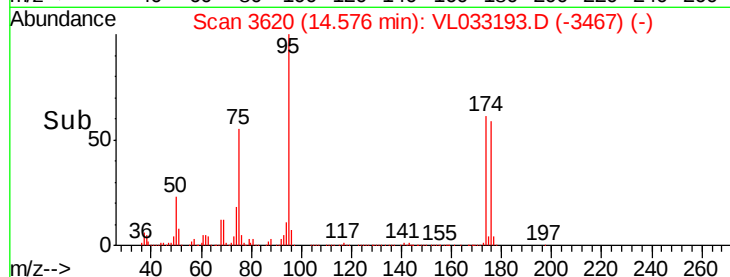
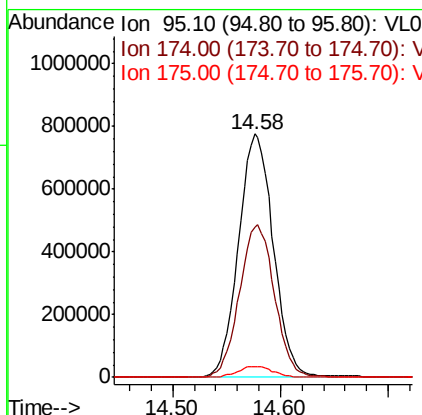
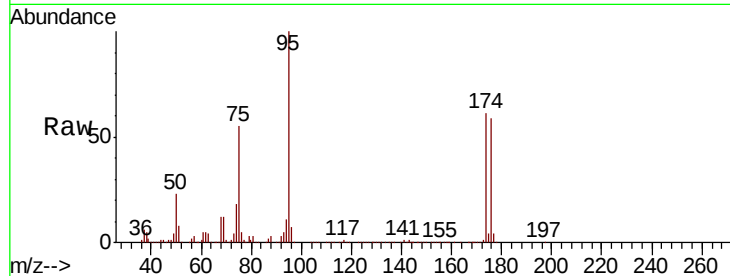
#68
1-Bromo-4-Fluorobenzene
Concen: 10.442 ppbv
RT: 14.58 min Scan# 3620
Delta R.T. -0.01 min
Lab File: VL033193.D
Acq: 13 Feb 2019 19:07

Instrument :
MSVOA_L
ClientSampled :
FM-IA

Tgt Ion: 95 Resp: 1744573
Ion Ratio Lower Upper
95 100
174 63.3 51.1 76.7
175 4.5 3.8 5.6

Manual Integrations
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#69
p-Isopropyltoluene
Concen: 0.154 ppbv m
RT: 17.82 min Scan# 4630
Delta R.T. 0.00 min
Lab File: VL033193.D
Acq: 13 Feb 2019 19:07

Tgt Ion: 119 Resp: 65237
Ion Ratio Lower Upper
119 100
134 0.0 20.4 30.6#
91 0.0 23.4 35.0#

