

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL021319\
 Data File : VL033189.D
 Acq On : 13 Feb 2019 16:30
 Operator : SY/AP
 Sample : K1408-01DUP
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AB-IADUP

Manual Integrations
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Quant Time: Feb 20 07:28:46 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL020519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Feb 20 07:28:46 2019
 QLast Update : Wed Feb 20 06:00:52 2019
 Response via : Initial Calibration

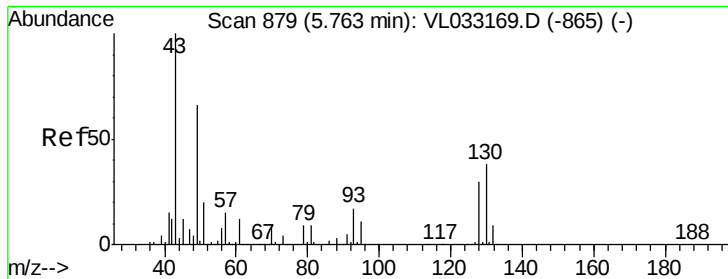
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	985967	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2279389	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2233640	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1775798	10.20	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.07	85	27069	0.144	ppbv	99
3) Chlorodifluoromethane	3.01	51	37568m	0.316	ppbv	
4) Chloromethane	3.17	50	51112	0.815	ppbv	93
11) Trichlorofluoromethane	4.00	101	374265	2.452	ppbv	99
13) Ethanol	3.65	45	2748687	141.032	ppbv	97
15) Acetone	3.90	43	690043	6.212	ppbv	99
17) tert-Butyl alcohol	4.37	59	31078	1.456	ppbv #	93
19) Isopropyl Alcohol	4.03	45	294932	3.915	ppbv #	97
20) Methylene Chloride	4.41	84	124208	2.811	ppbv	97
26) Hexane	5.78	57	364134	3.106	ppbv #	44
34) 2-Butanone	5.33	43	258152	1.785	ppbv	99
35) Carbon Tetrachloride	7.13	117	12112m	0.070	ppbv	
36) Benzene	7.00	78	61101	0.264	ppbv	96
53) Toluene	9.94	91	508929	1.860	ppbv	97
58) Ethyl Benzene	12.86	91	1089545	2.972	ppbv	100
59) m/p-Xylene	13.12	91	3283201	10.765	ppbv	99
60) o-Xylene	13.85	91	992713	3.338	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.00 min

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MSVOA_L

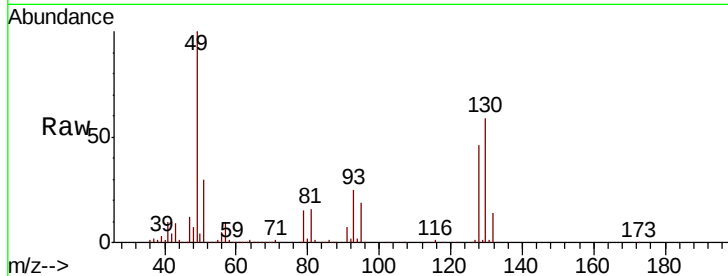
ClientSampleId :

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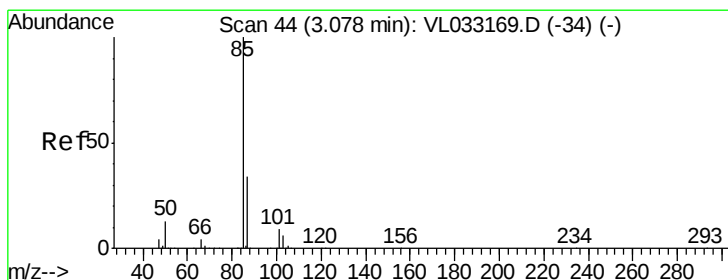
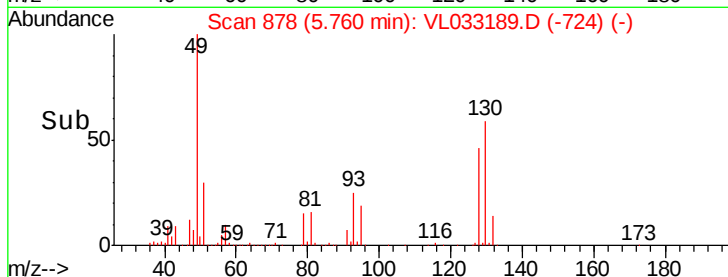
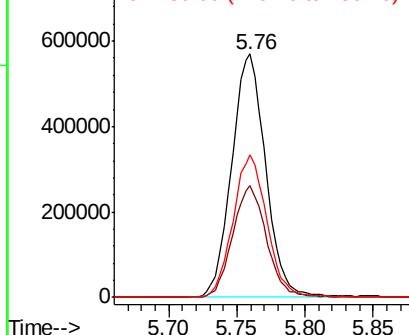
Tgt Ion:	49	Resp:	985967
Ion	Ratio	Lower	Upper
49	100		
128	46.2	23.6	71.0
130	58.9	30.3	91.0

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Abundance Ion 49.10 (48.80 to 49.80): VL0
Ion 128.00 (127.70 to 128.70): V
Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.144 ppbv

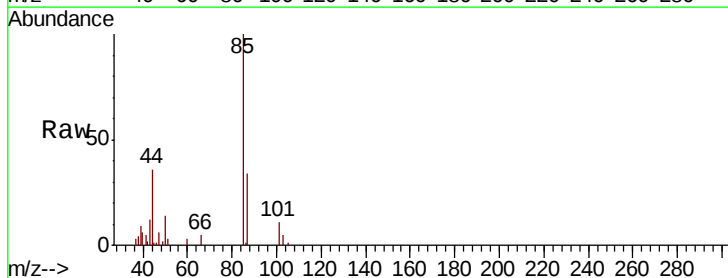
RT: 3.07 min Scan# 43

Delta R.T. -0.00 min

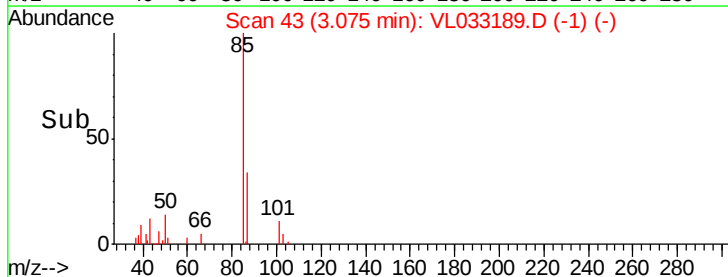
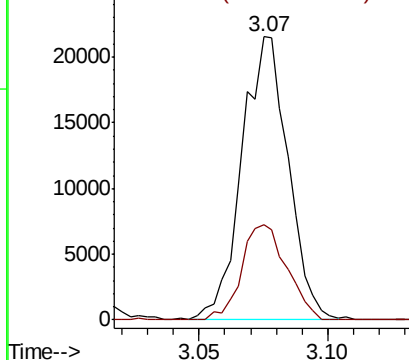
Lab File: VL033189.D

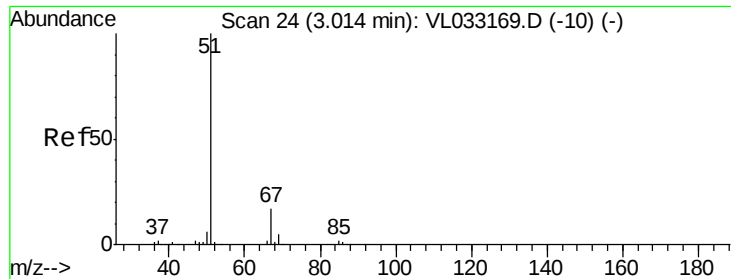
Acq: 13 Feb 2019 16:30

Tgt Ion:	85	Resp:	27069
Ion	Ratio	Lower	Upper
85	100		
87	33.7	27.4	41.2



Abundance Ion 85.00 (84.70 to 85.70): VL0
Ion 87.00 (86.70 to 87.70): VL0





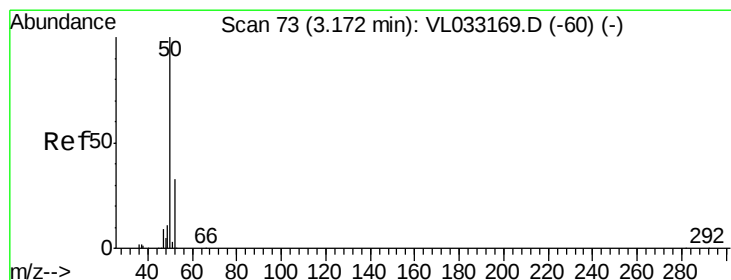
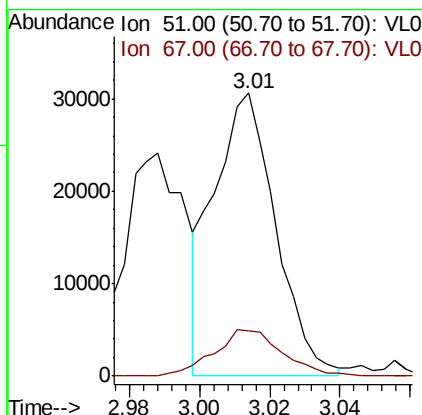
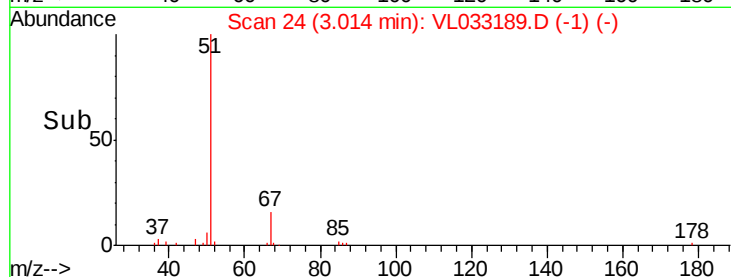
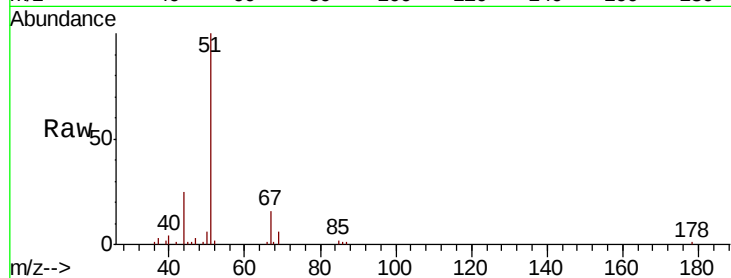
#3
Chlorodifluoromethane
Concen: 0.316 ppbv
RT: 3.01 min Scan# 24
Delta R.T. -0.00 min
Lab File: VL033189.D
Acq: 13 Feb 2019 16:30

Instrument :
MSVOA_L
ClientSampleId :
AB-IADUP

Tgt Ion: 51 Resp: 37568
Ion Ratio Lower Upper
51 100
67 18.1 14.0 21.0

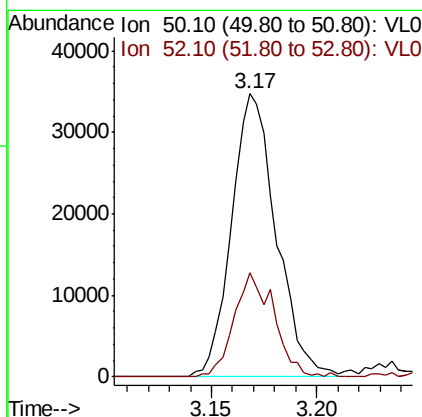
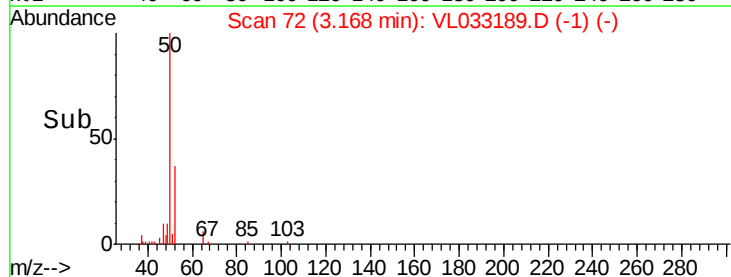
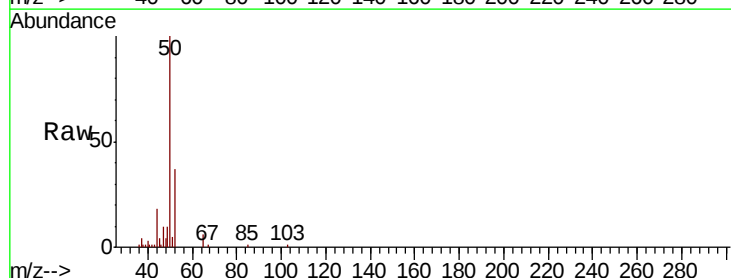
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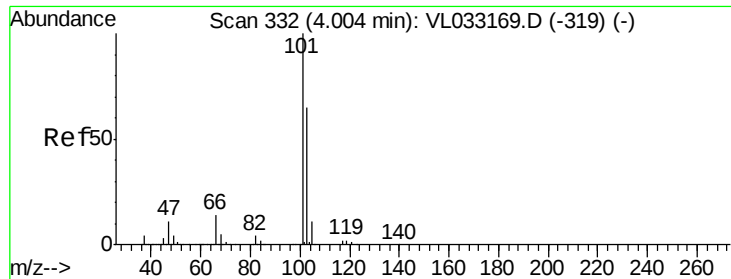
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#4
Chloromethane
Concen: 0.815 ppbv
RT: 3.17 min Scan# 72
Delta R.T. -0.00 min
Lab File: VL033189.D
Acq: 13 Feb 2019 16:30

Tgt Ion: 50 Resp: 51112
Ion Ratio Lower Upper
50 100
52 37.0 26.5 39.7





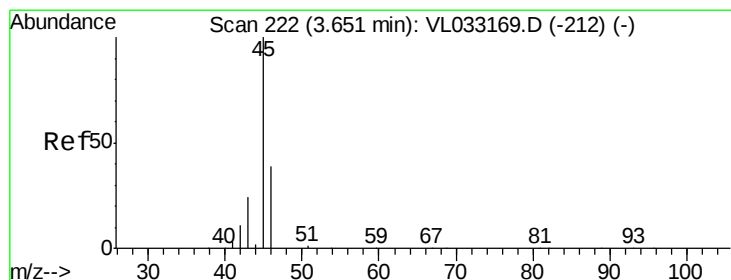
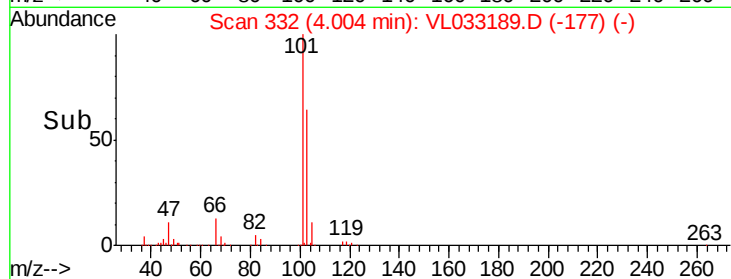
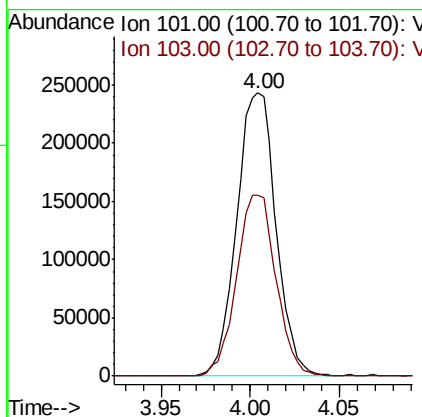
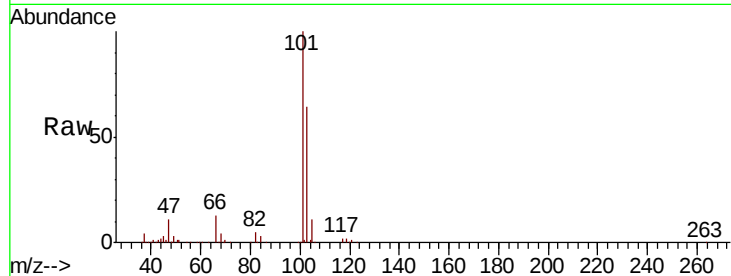
#11
 Trichlorofluoromethane
 Concen: 2.452 ppbv
 RT: 4.00 min Scan# 332
 Delta R.T. -0.00 min
 Lab File: VL033189.D
 Acq: 13 Feb 2019 16:30

Instrument :
 MSVOA_L
 ClientSampleId :
 AB-IADUP

Tgt Ion	Ratio	Lower	Upper
101	100		
103	63.8	51.7	77.5

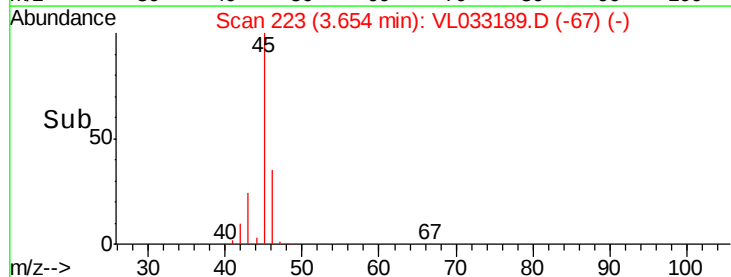
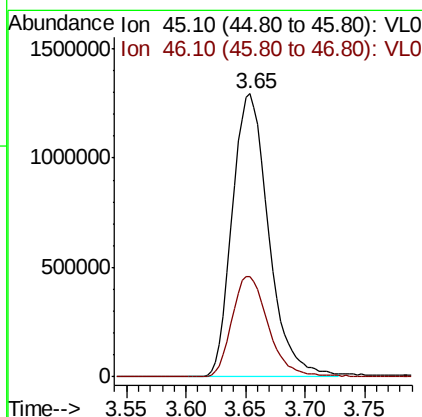
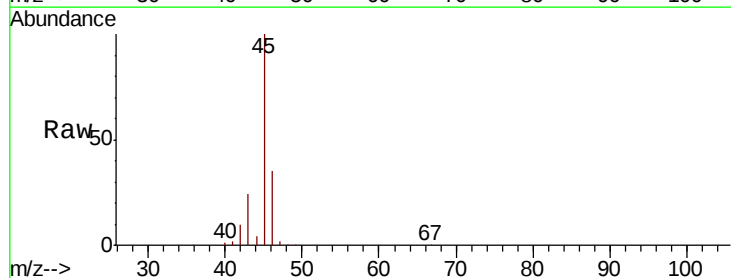
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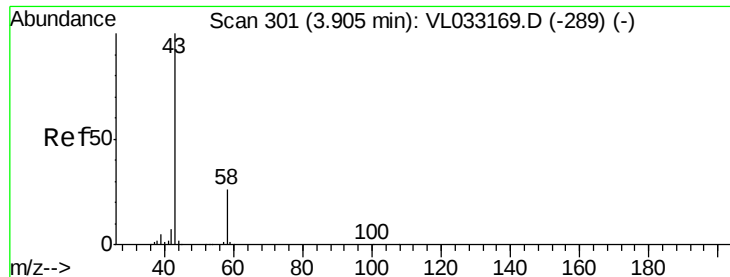
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#13
 Ethanol
 Concen: 141.032 ppbv
 RT: 3.65 min Scan# 222
 Delta R.T. 0.00 min
 Lab File: VL033189.D
 Acq: 13 Feb 2019 16:30

Tgt Ion	Ratio	Lower	Upper
45	100		
46	35.8	15.0	60.2





#15

Acetone

Concen: 6.212 ppbv

RT: 3.90 min Scan# 299

Delta R.T. -0.01 min

Lab File: VL033189.D

Acq: 13 Feb 2019 16:30

Instrument :

MSVOA_L

ClientSampleId :

AB-IADUP

Tgt Ion: 43 Resp: 690043

Ion Ratio Lower Upper

43 100

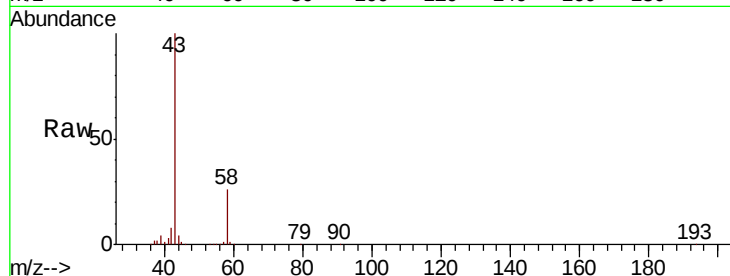
58 26.9 21.1 31.7

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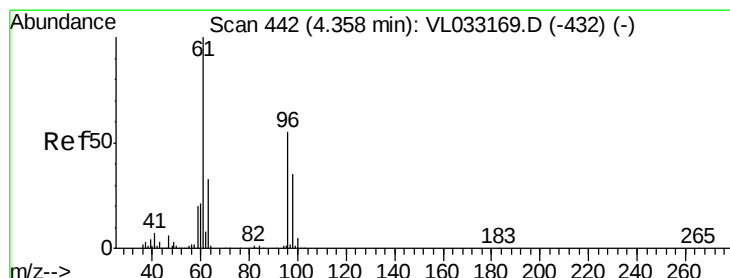
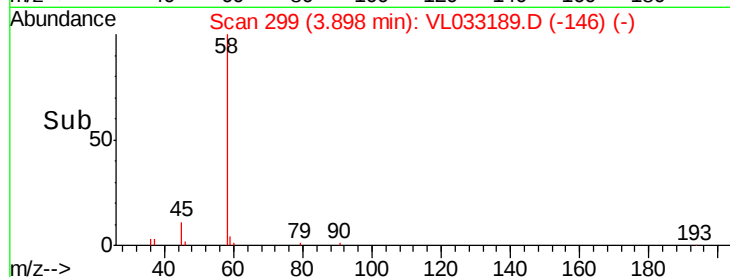
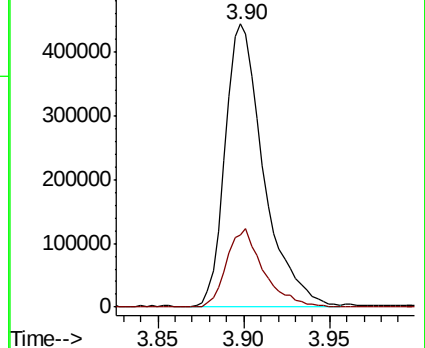
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#17

tert-Butyl alcohol

Concen: 1.456 ppbv

RT: 4.37 min Scan# 447

Delta R.T. 0.02 min

Lab File: VL033189.D

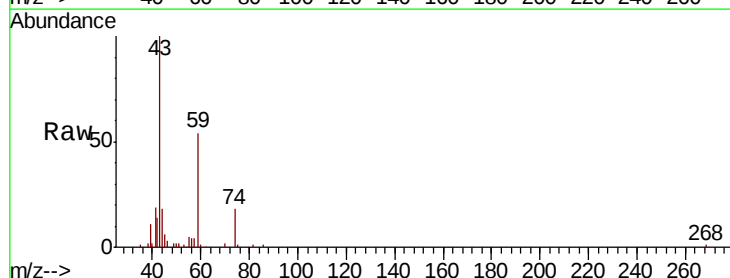
Acq: 13 Feb 2019 16:30

Tgt Ion: 59 Resp: 31078

Ion Ratio Lower Upper

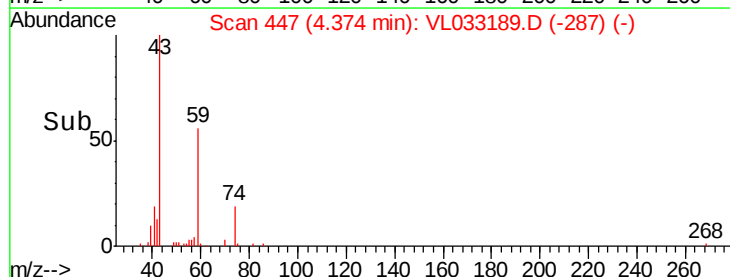
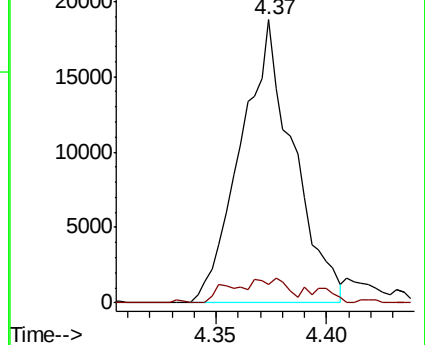
59 100

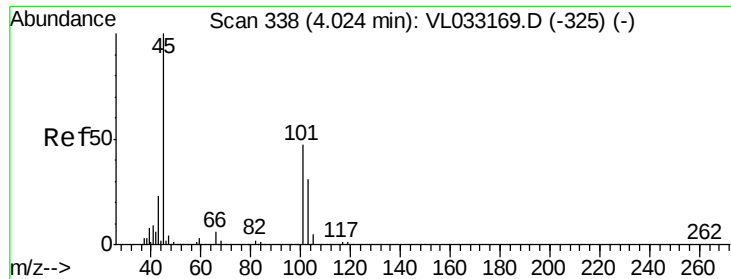
57 12.1 7.6 11.4#



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





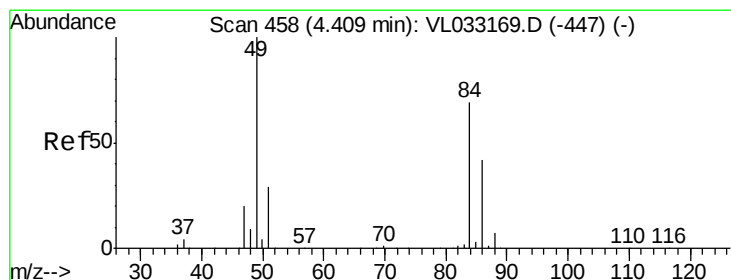
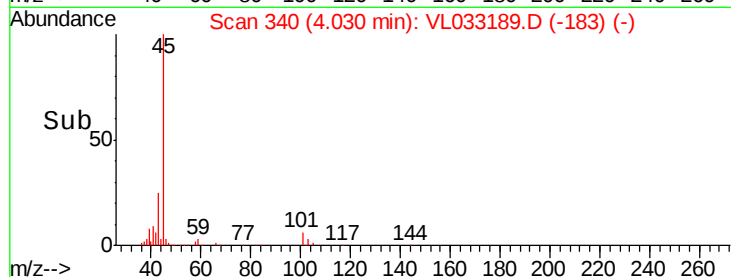
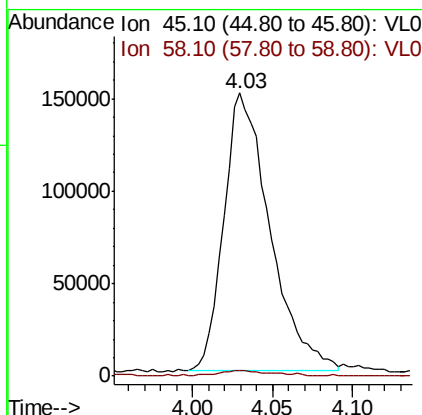
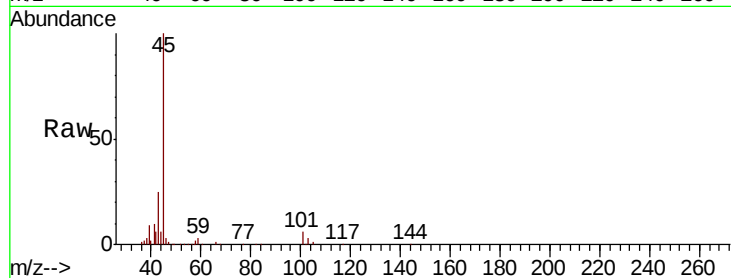
#19
Isopropyl Alcohol
Concen: 3.915 ppbv
RT: 4.03 min Scan# 340
Delta R.T. 0.01 min
Lab File: VL033189.D
Acq: 13 Feb 2019 16:30

Instrument :
MSVOA_L
ClientSampleId :
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Tgt Ion: 45 Resp: 294932
Ion Ratio Lower Upper
45 100
58 3.0 1.5 2.3#

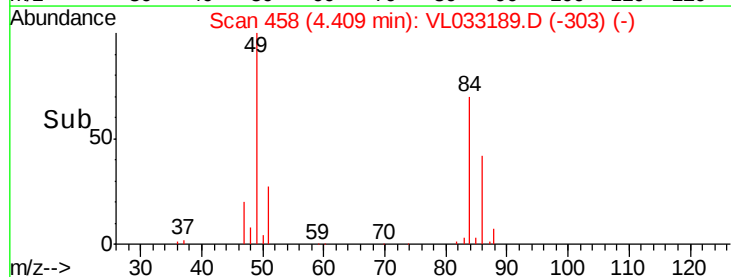
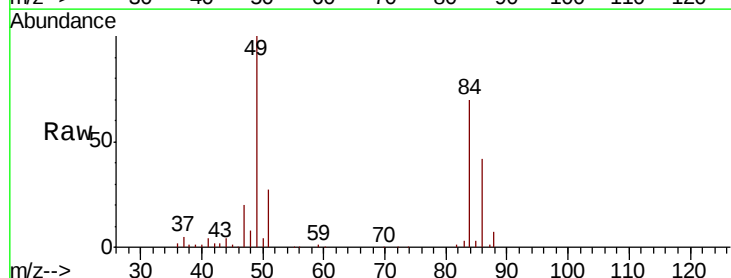
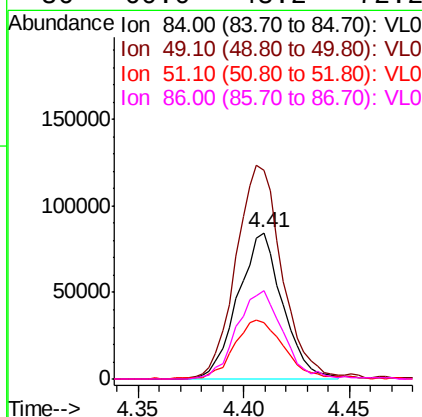
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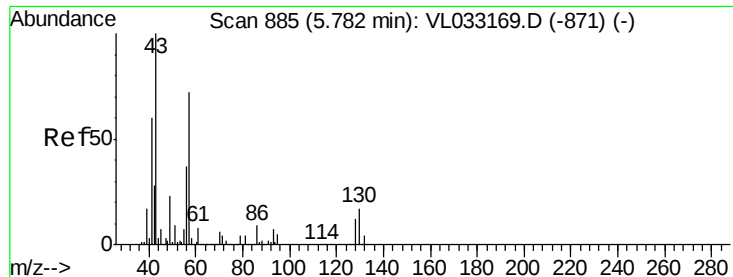
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#20
Methylene Chloride
Concen: 2.811 ppbv
RT: 4.41 min Scan# 458
Delta R.T. -0.00 min
Lab File: VL033189.D
Acq: 13 Feb 2019 16:30

Tgt Ion: 84 Resp: 124208
Ion Ratio Lower Upper
84 100
49 141.7 115.8 173.8
51 37.4 33.0 49.6
86 60.0 48.2 72.2





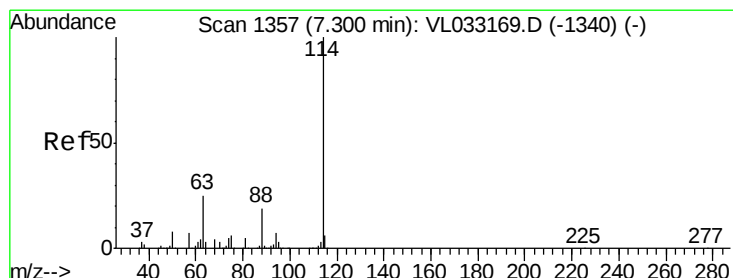
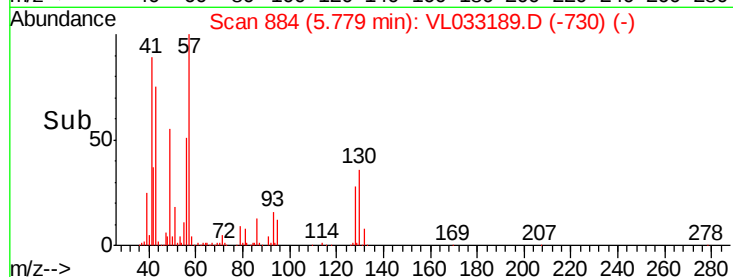
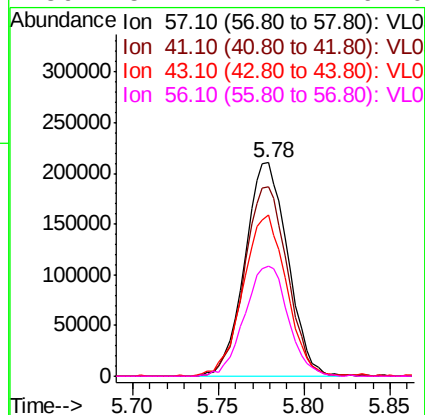
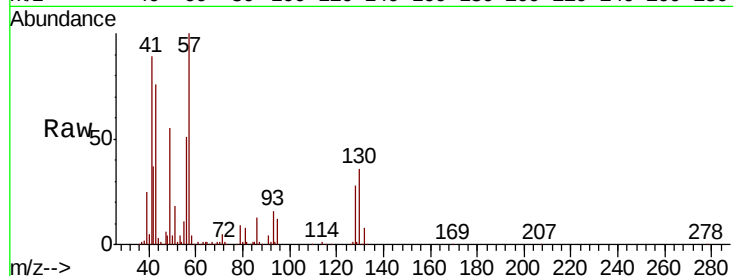
#26
Hexane
Concen: 3.106 ppbv
RT: 5.78 min Scan# 884
Delta R.T. -0.00 min
Lab File: VL033189.D
Acq: 13 Feb 2019 16:30

Instrument :
MSVOA_L
ClientSampleId :
AB-IADUP

Tgt Ion	Ratio	Lower	Upper
57	100		
41	89.5	69.4	104.2
43	76.4	176.7	265.1#
56	52.4	41.4	62.0

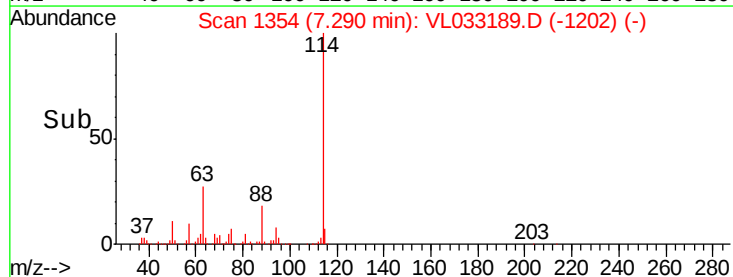
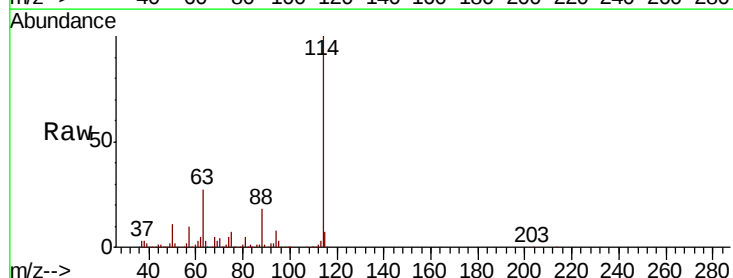
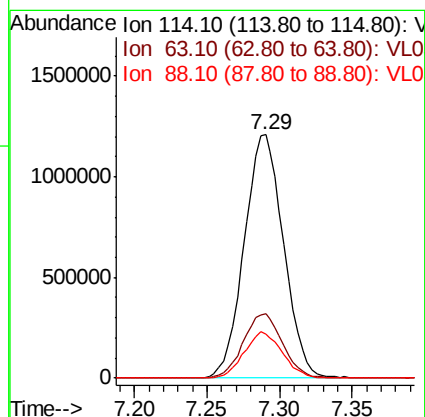
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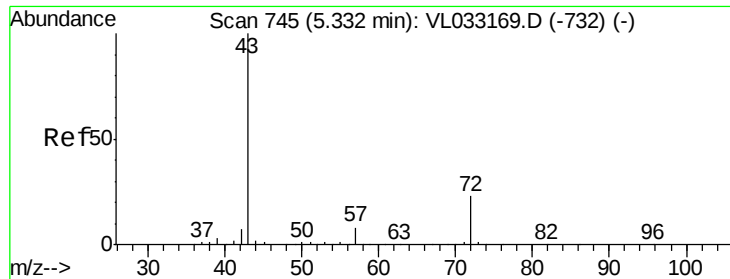
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.29 min Scan# 1354
Delta R.T. -0.01 min
Lab File: VL033189.D
Acq: 13 Feb 2019 16:30

Tgt Ion	Ratio	Lower	Upper
114	100		
63	26.5	20.8	31.2
88	18.4	14.6	22.0





#34

2-Butanone

Concen: 1.785 ppbv

RT: 5.33 min Scan# 744

Delta R.T. -0.00 min

Lab File: VL033189.D

Acq: 13 Feb 2019 16:30

Instrument :

MSVOA_L

ClientSampleId :

AB-IADUP

Tgt Ion: 43 Resp: 258152

Ion Ratio Lower Upper

43 100

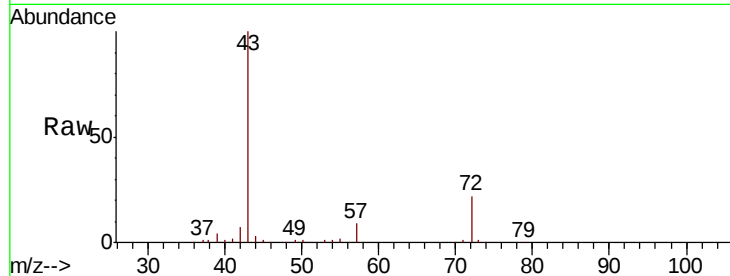
72 22.5 17.8 26.6

Manual Integrations

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

150000

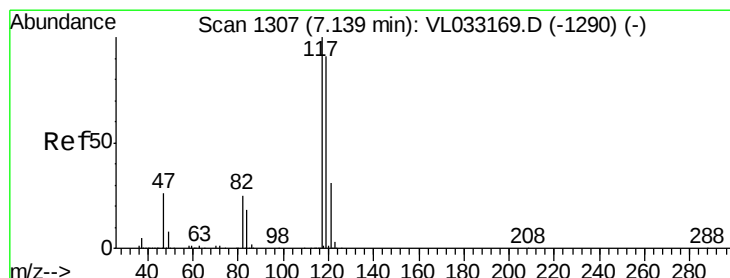
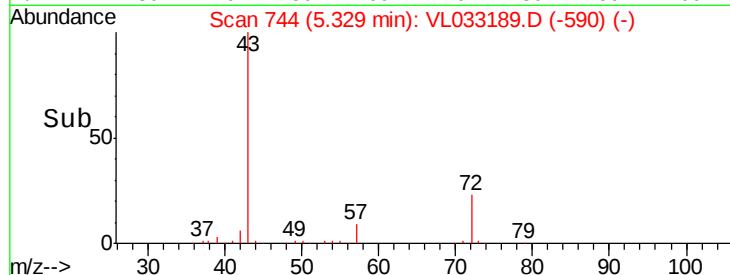
100000

50000

0

5.25 5.30 5.35

Time-->



#35

Carbon Tetrachloride

Concen: 0.070 ppbv m

RT: 7.13 min Scan# 1305

Delta R.T. -0.01 min

Lab File: VL033189.D

Acq: 13 Feb 2019 16:30

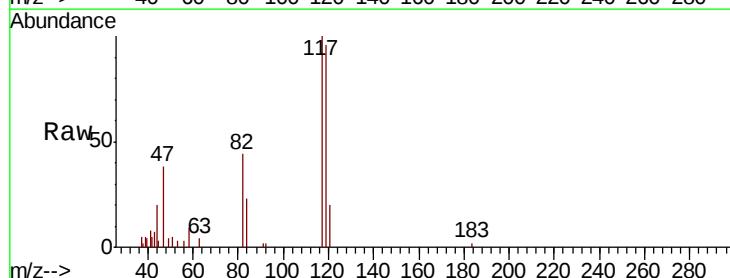
Tgt Ion: 117 Resp: 12112

Ion Ratio Lower Upper

117 100

119 96.3 73.0 109.6

121 19.7 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

8000

6000

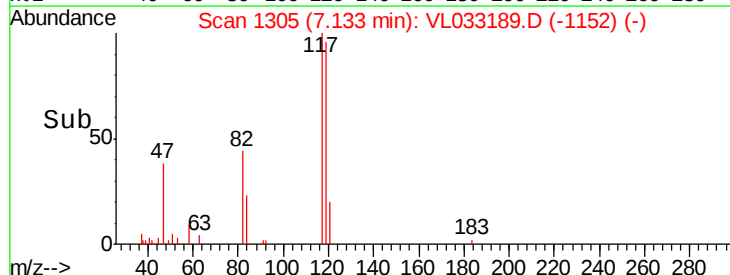
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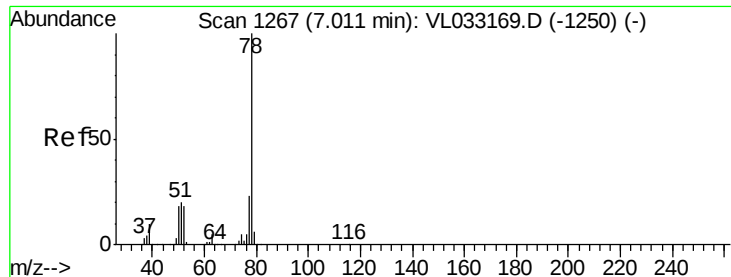
2000

0

7.10 7.15

Time-->





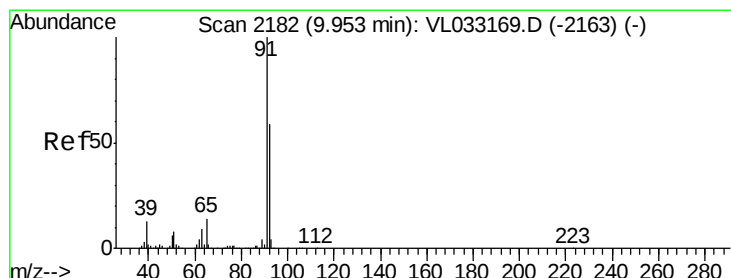
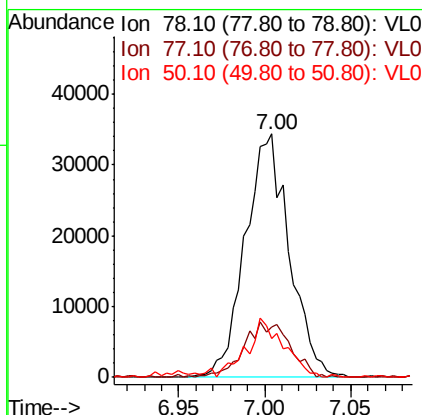
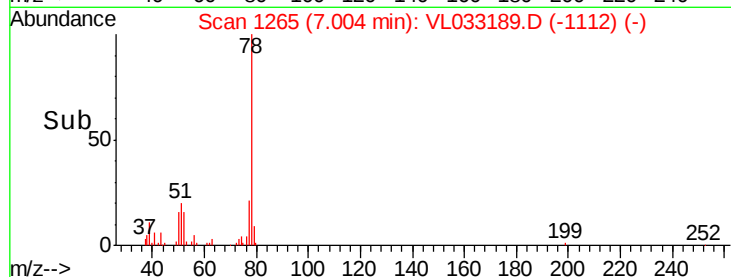
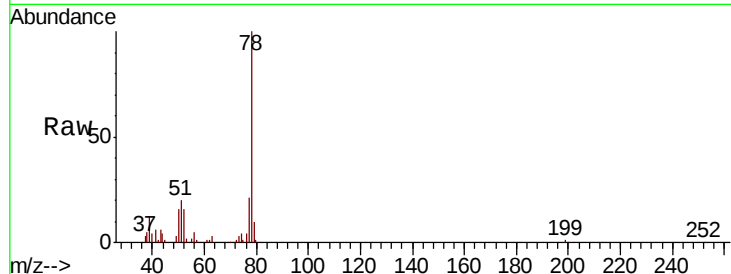
#36
Benzene
Concen: 0.264 ppbv
RT: 7.00 min Scan# 1265
Delta R.T. -0.01 min
Lab File: VL033189.D
Acq: 13 Feb 2019 16:30

Instrument :
MSVOA_L
ClientSampleId :
AB-IADUP

Tgt Ion	Ratio	Lower	Upper
78	100		
77	20.8	18.0	27.0
50	15.3	14.2	21.2

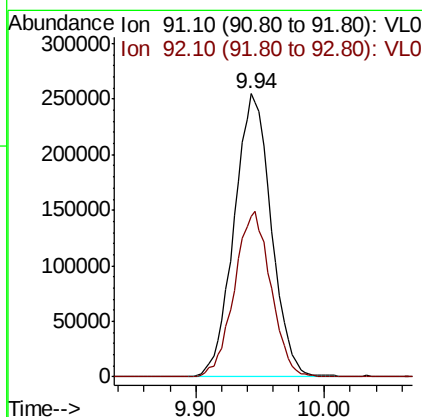
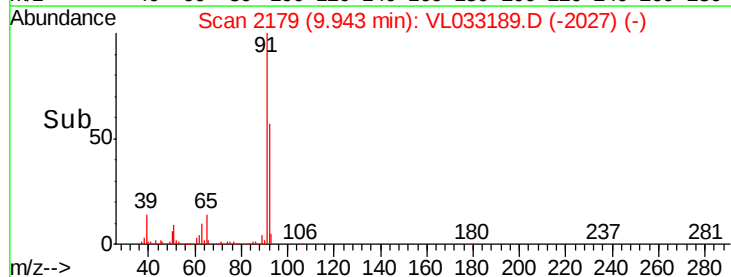
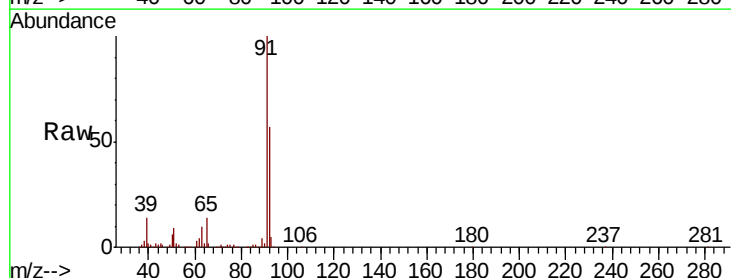
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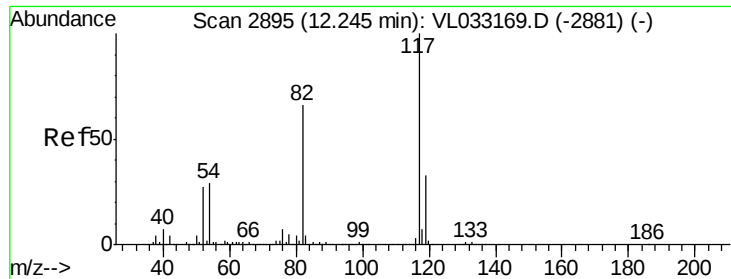
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#53
Toluene
Concen: 1.860 ppbv
RT: 9.94 min Scan# 2179
Delta R.T. -0.01 min
Lab File: VL033189.D
Acq: 13 Feb 2019 16:30

Tgt Ion	Ratio	Lower	Upper
91	100		
92	57.6	48.0	72.0





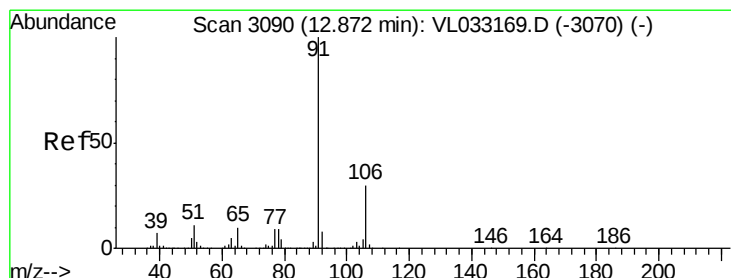
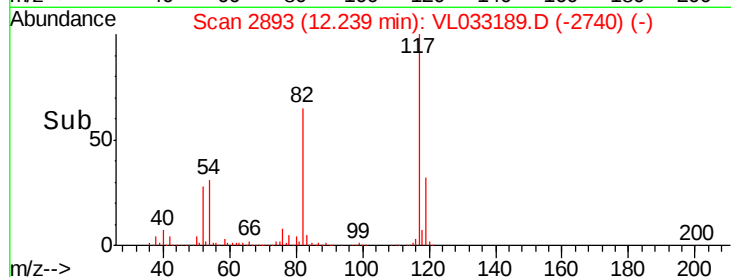
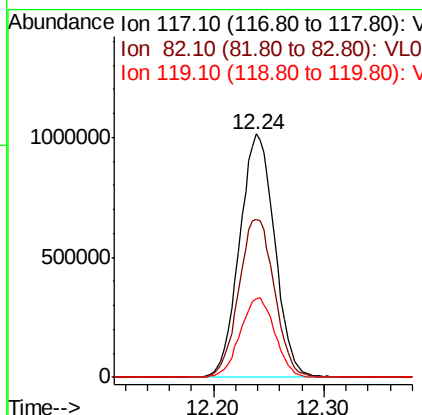
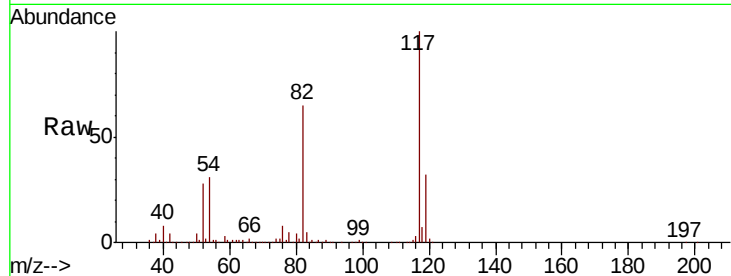
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2893
Delta R.T. -0.01 min
Lab File: VL033189.D
Acq: 13 Feb 2019 16:30

Instrument :
MSVOA_L
ClientSampleId :
AB-IADUP

Tgt Ion: 117 Resp: 2233640
Ion Ratio Lower Upper
117 100
82 66.1 53.8 80.8
119 32.5 46.9 70.3#

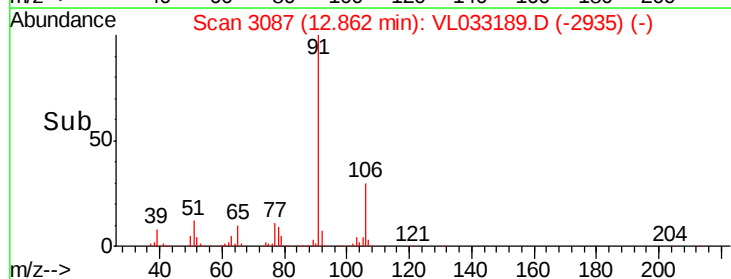
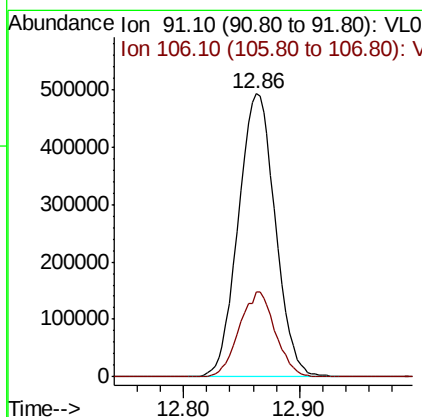
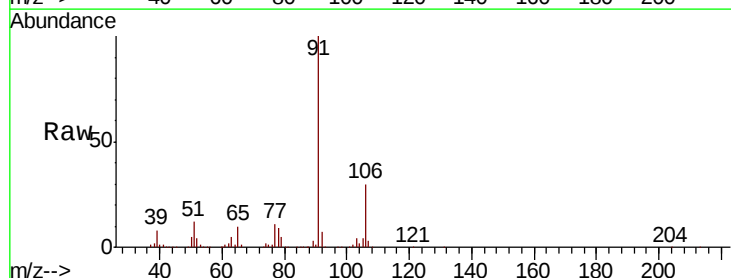
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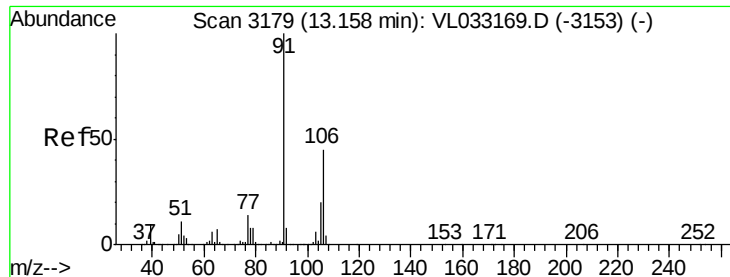
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#58
Ethyl Benzene
Concen: 2.972 ppbv
RT: 12.86 min Scan# 3087
Delta R.T. -0.01 min
Lab File: VL033189.D
Acq: 13 Feb 2019 16:30

Tgt Ion: 91 Resp: 1089545
Ion Ratio Lower Upper
91 100
106 29.9 23.8 35.8





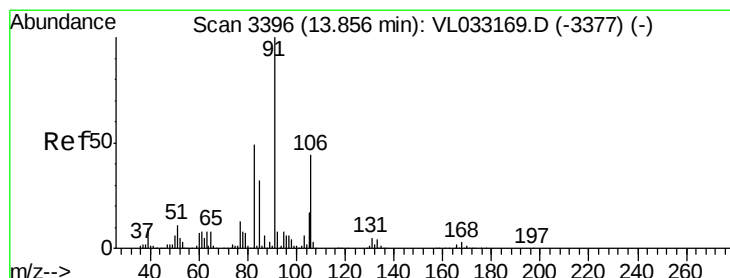
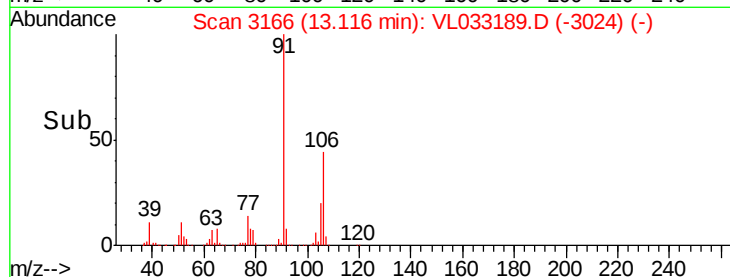
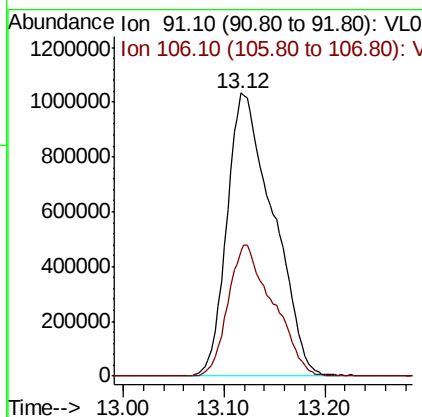
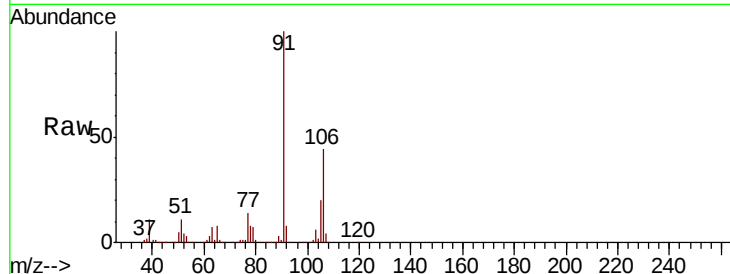
#59
m/p-Xylene
Concen: 10.765 ppbv
RT: 13.12 min Scan# 3166
Delta R.T. -0.04 min
Lab File: VL033189.D
Acq: 13 Feb 2019 16:30

Instrument :
MSVOA_L
ClientSampled :
AB-IADUP

Tgt Ion: 91 Resp: 3283201
Ion Ratio Lower Upper
91 100
106 45.4 36.6 55.0

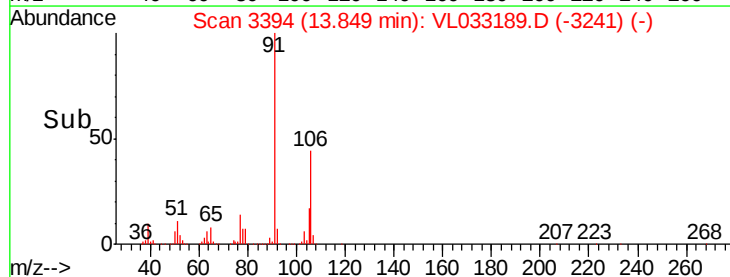
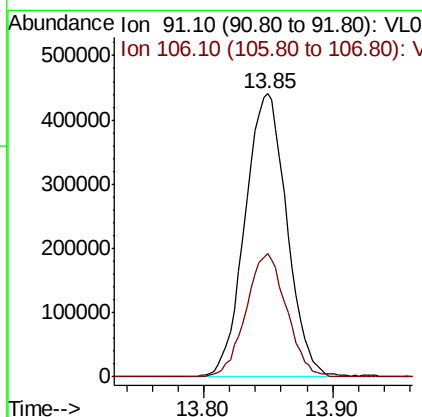
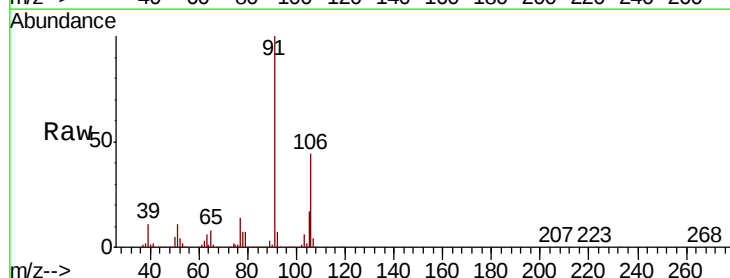
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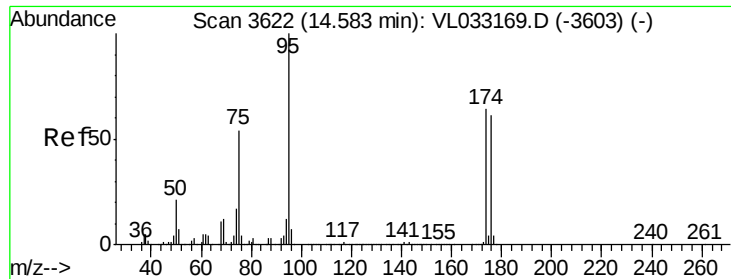
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#60
o-Xylene
Concen: 3.338 ppbv
RT: 13.85 min Scan# 3394
Delta R.T. -0.01 min
Lab File: VL033189.D
Acq: 13 Feb 2019 16:30

Tgt Ion: 91 Resp: 992713
Ion Ratio Lower Upper
91 100
106 42.7 21.8 65.3





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.202 ppbv
 RT: 14.58 min Scan# 3620
 Delta R.T. -0.01 min
 Lab File: VL033189.D
 Acq: 13 Feb 2019 16:30

Instrument :
 MSVOA_L
 ClientSampleId :
 AB-IADUP

Tgt Ion	Ratio	Lower	Upper
95	100		
174	64.1	51.1	76.7
175	4.5	3.8	5.6

Manual Integrations
 APPROVED

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