

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL031219\
 Data File : VL033292.D
 Acq On : 12 Mar 2019 21:00
 Operator : SY/AP
 Sample : K1805-06
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ST-IA-2

Manual Integrations
 APPROVED

MMDadoda
 3/14/2019 5:06:29 AM

Quant Time: Mar 13 17:51:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL031219AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Mar 14 07:17:55 2019
 QLast Update : Wed Mar 13 07:17:55 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	774492	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1740503	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1720189	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1370009	10.31	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	65622	0.420	ppbv	94
3) Chlorodifluoromethane	3.01	51	31817m	0.310	ppbv	
4) Chloromethane	3.17	50	23962	0.436	ppbv	90
9) Propene	3.05	41	28668m	0.612	ppbv	
10) Heptane	8.24	43	14311m	0.136	ppbv	
11) Trichlorofluoromethane	4.00	101	33365	0.216	ppbv	98
13) Ethanol	3.65	45	113131	7.918	ppbv	97
15) Acetone	3.90	43	295631m	2.488	ppbv	
19) Isopropyl Alcohol	4.04	45	43560m	0.607	ppbv	
20) Methylene Chloride	4.41	84	108637	2.750	ppbv	94
26) Hexane	5.78	57	157646	1.835	ppbv #	40
34) 2-Butanone	5.34	43	35243	0.306	ppbv	94
36) Benzene	7.00	78	53176m	0.331	ppbv	
44) 2,2,4-Trimethylpentane	7.99	57	61692	0.226	ppbv #	80
52) Tetrachloroethene	11.37	164	10009m	0.170	ppbv	
53) Toluene	9.94	91	472977	2.556	ppbv	99
58) Ethyl Benzene	12.86	91	21114m	0.089	ppbv	
59) m/p-Xylene	13.12	91	60098m	0.304	ppbv	
60) o-Xylene	13.84	91	20720m	0.109	ppbv	

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

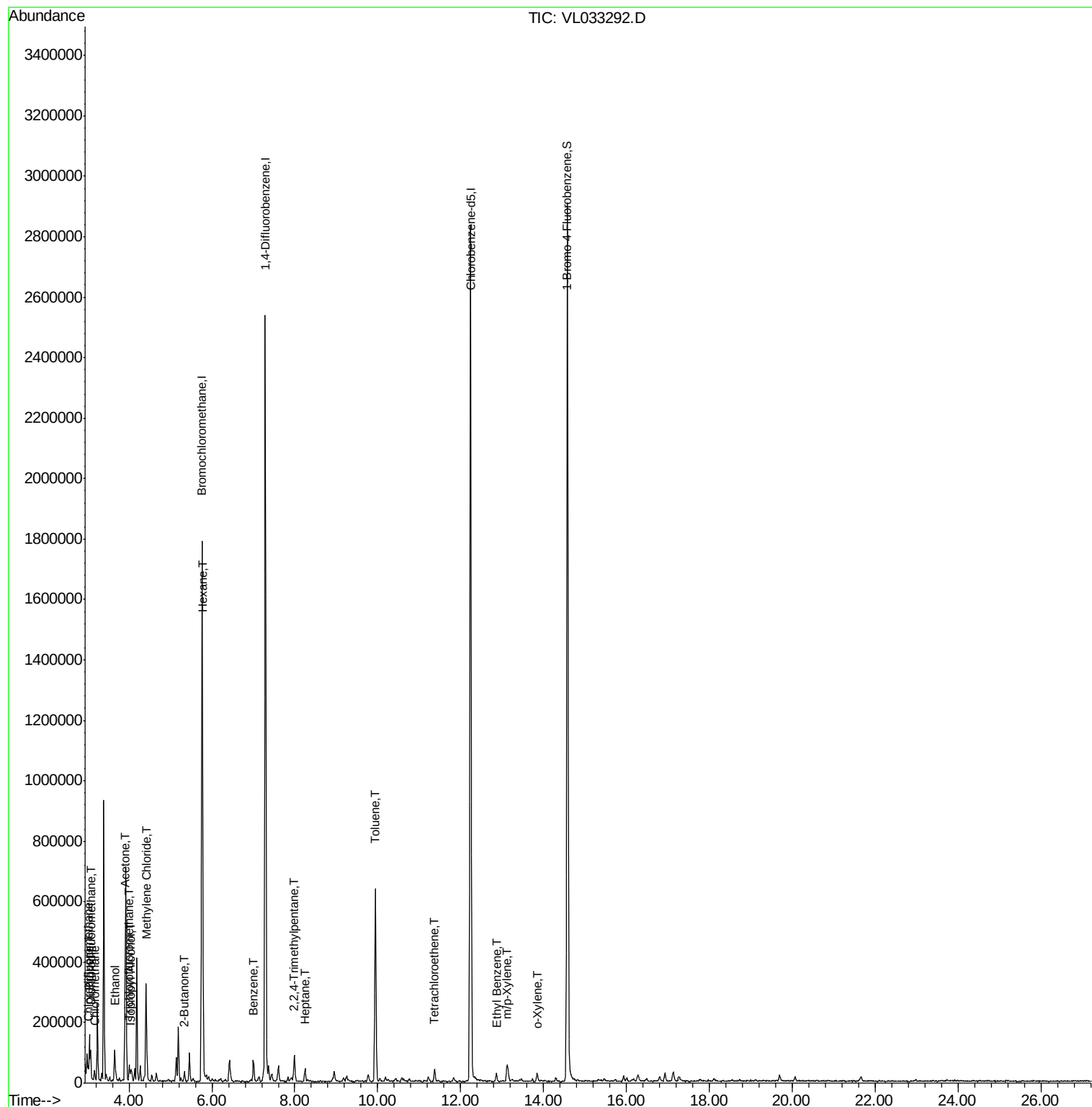
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_L\DATA\VL031219\
Data File : VL033292.D
Acq On : 12 Mar 2019 21:00
Operator : SY/AP
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Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

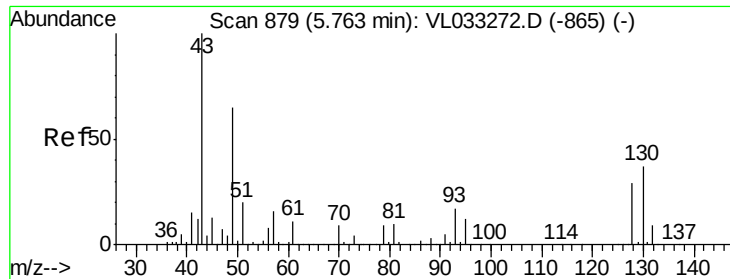
Instrument :
MSVOA_L
ClientSampleId :
ST-IA-2

Manual Integrations
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3/14/2019 5:06:29 AM

Quant Time: Mar 13 17:51:08 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL031219AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Mar
QLast Update : Wed Mar 13 07:17:55 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.01 min

Lab File: VL033292.D

Acq: 12 Mar 2019 21:00

Instrument :

MSVOA_L

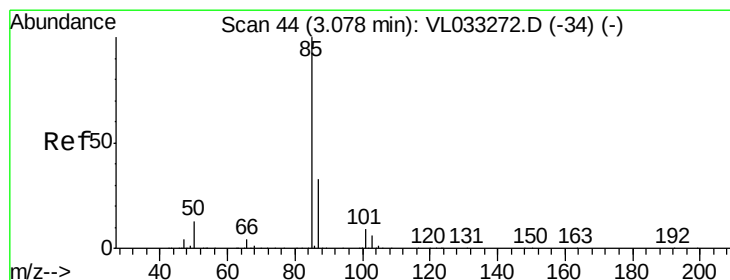
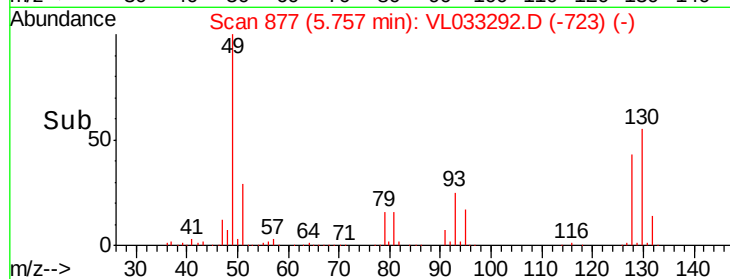
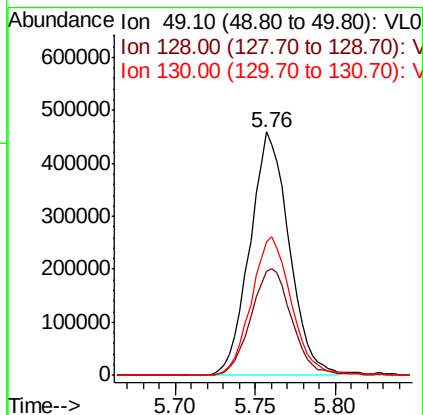
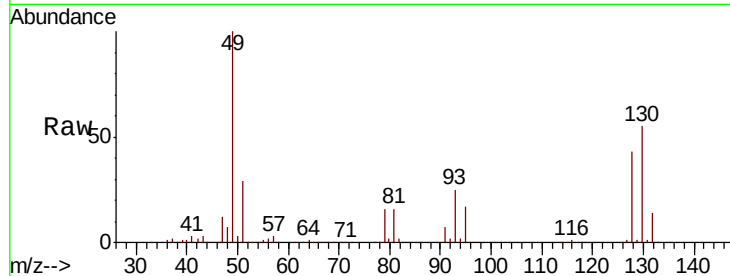
ClientSampleId :

ST-IA-2

Tgt Ion: 49 Resp: 774492
 Ion Ratio Lower Upper
 49 100
 128 46.1 23.3 69.9
 130 58.7 30.0 90.1

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#2

Dichlorodifluoromethane

Concen: 0.420 ppbv

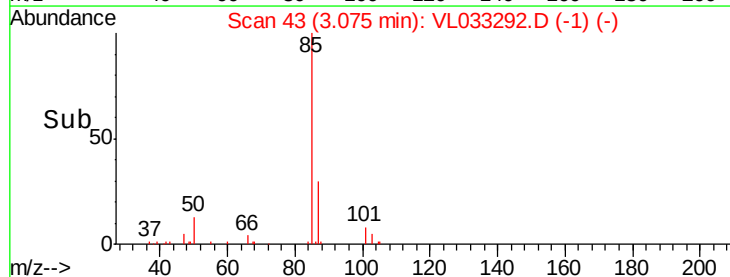
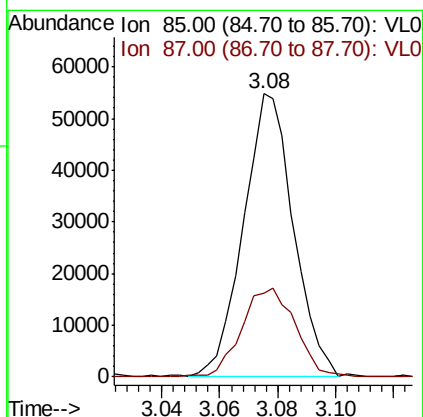
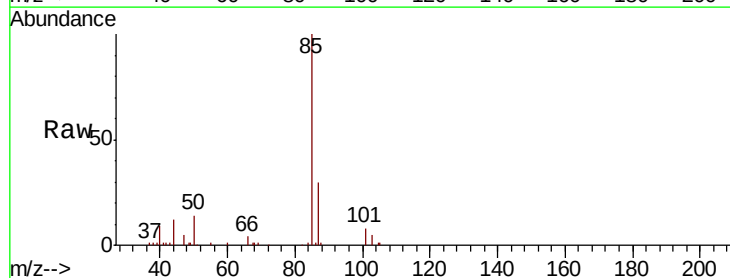
RT: 3.08 min Scan# 43

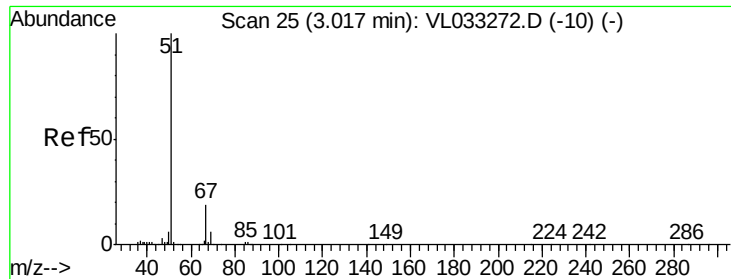
Delta R.T. -0.00 min

Lab File: VL033292.D

Acq: 12 Mar 2019 21:00

Tgt Ion: 85 Resp: 65622
 Ion Ratio Lower Upper
 85 100
 87 29.9 26.4 39.6





#3

Chlorodifluoromethane

Concen: 0.310 ppbv

RT: 3.01 min Scan# 24

Delta R.T. -0.00 min

Lab File: VL033292.D

Acq: 12 Mar 2019 21:00

Instrument :

MSVOA_L

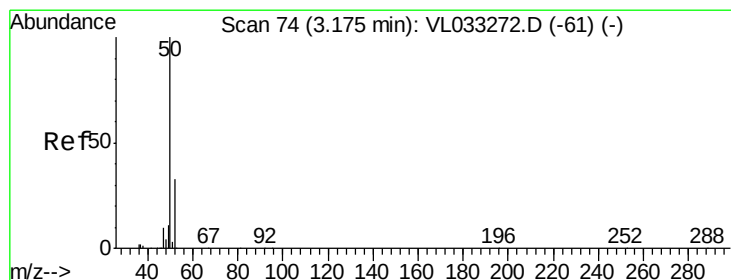
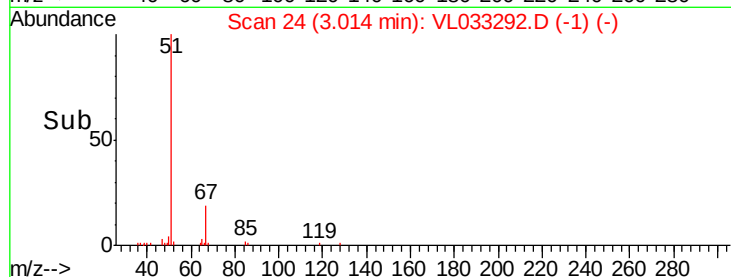
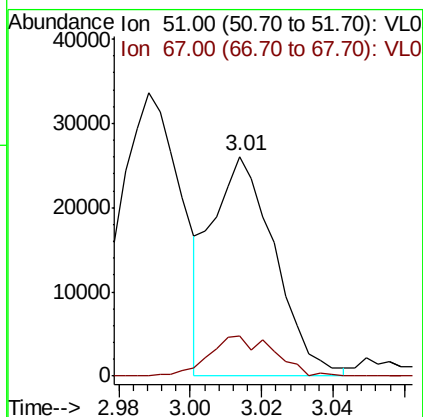
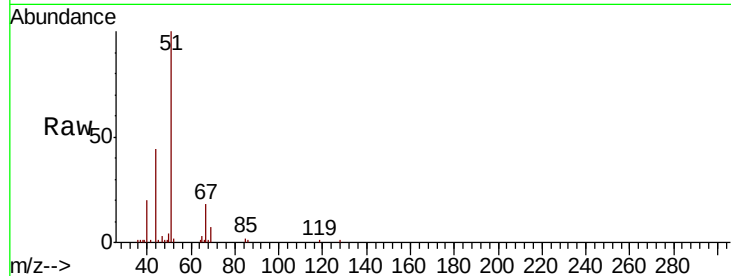
ClientSampleId :

ST-IA-2

Tgt Ion	Ratio	Lower	Upper
51	100		
67	18.9	15.0	22.4

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#4

Chloromethane

Concen: 0.436 ppbv

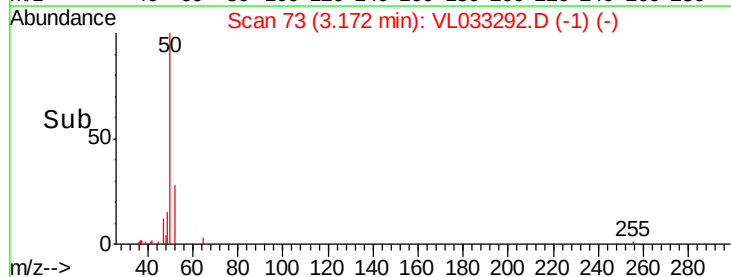
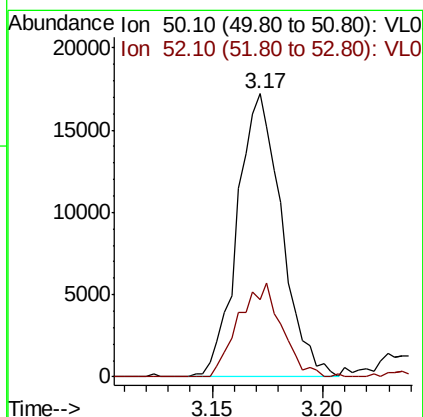
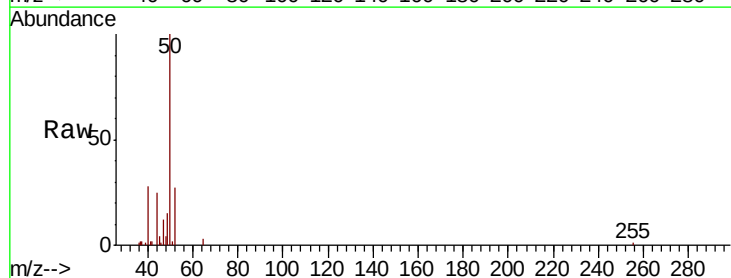
RT: 3.17 min Scan# 73

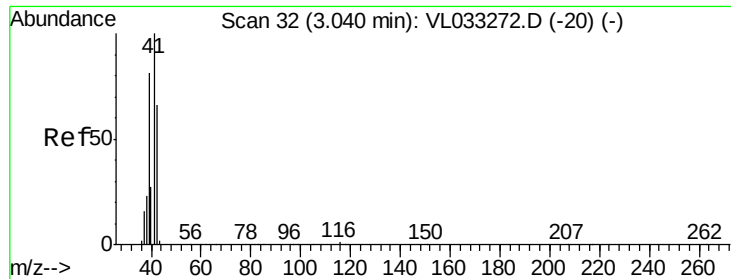
Delta R.T. -0.00 min

Lab File: VL033292.D

Acq: 12 Mar 2019 21:00

Tgt Ion	Ratio	Lower	Upper
50	100		
52	27.4	26.6	39.8





#9

Propene

Concen: 0.612 ppbv m

RT: 3.05 min Scan# 34

Delta R.T. 0.01 min

Lab File: VL033292.D

Acq: 12 Mar 2019 21:00

Instrument :

MSVOA_L

ClientSampled :

ST-IA-2

Tgt Ion: 41 Resp: 28668

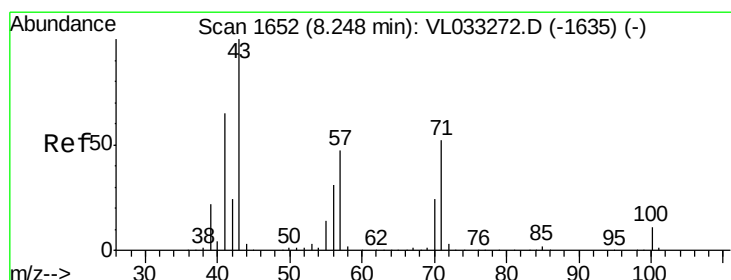
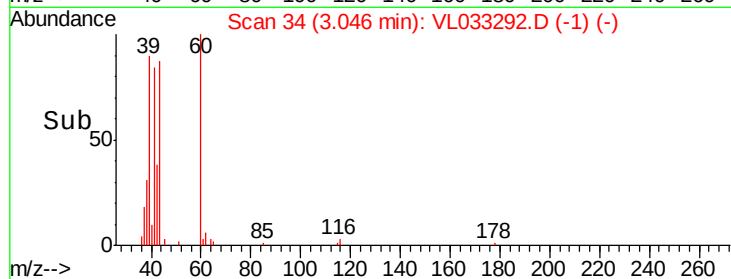
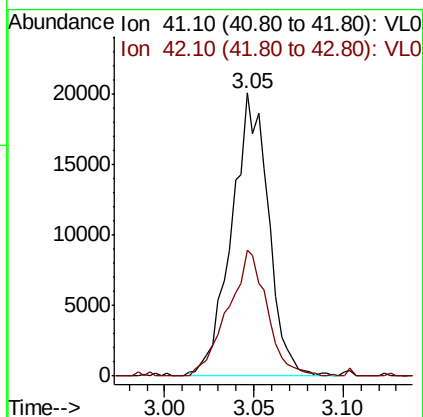
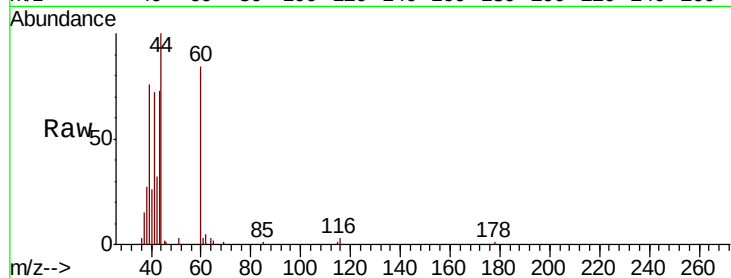
Ion Ratio Lower Upper

41 100

42 147.6 54.6 82.0#

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#10

Heptane

Concen: 0.136 ppbv m

RT: 8.24 min Scan# 1650

Delta R.T. -0.01 min

Lab File: VL033292.D

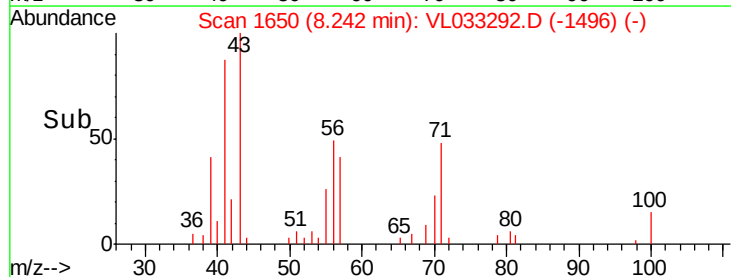
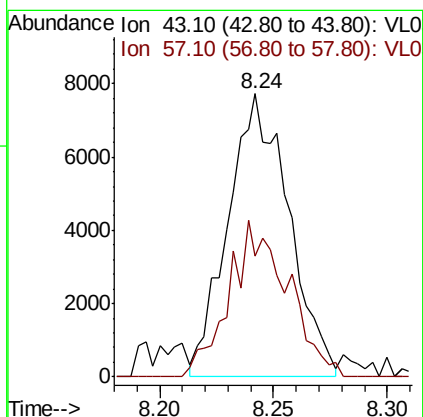
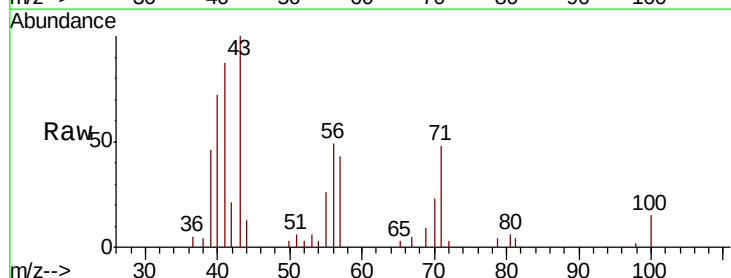
Acq: 12 Mar 2019 21:00

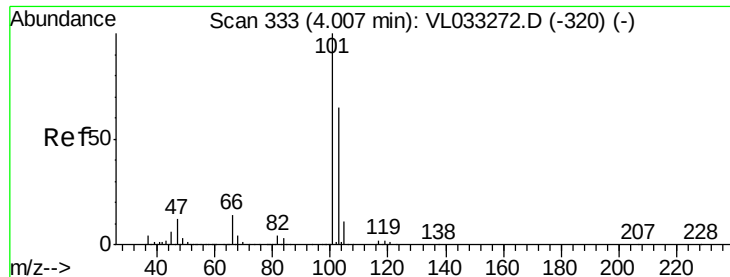
Tgt Ion: 43 Resp: 14311

Ion Ratio Lower Upper

43 100

57 53.2 39.8 59.8





#11

Trichlorofluoromethane

Concen: 0.216 ppbv

RT: 4.00 min Scan# 332

Delta R.T. -0.00 min

Lab File: VL033292.D

Acq: 12 Mar 2019 21:00

Instrument :

MSVOA_L

ClientSampled :

ST-IA-2

Tgt Ion: 101 Resp: 33365

Ion Ratio Lower Upper

101 100

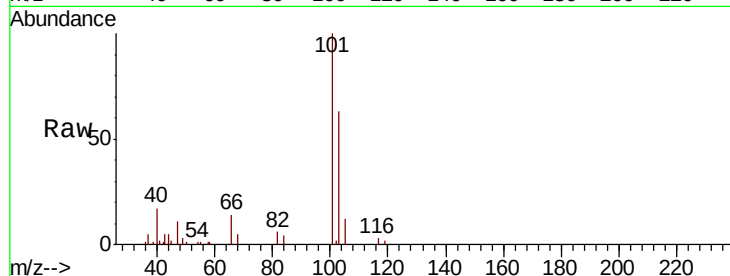
103 63.4 51.8 77.8

Manual Integrations

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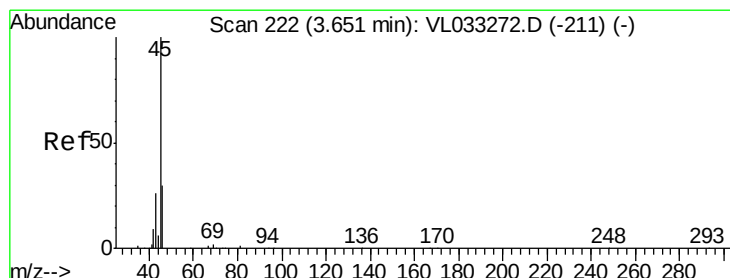
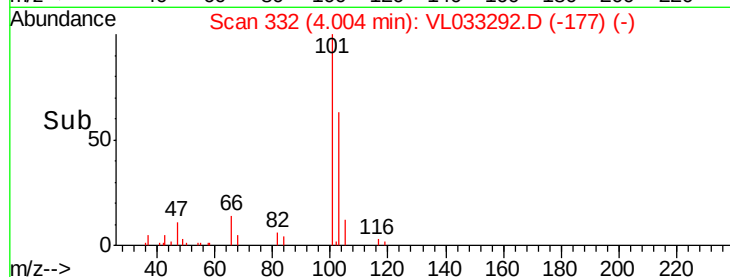
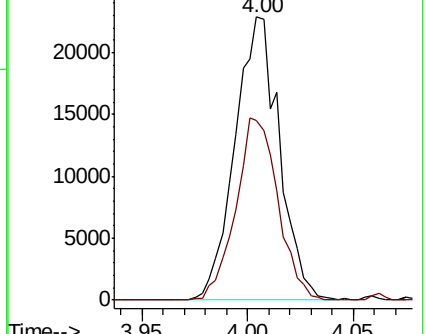
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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#13

Ethanol

Concen: 7.918 ppbv

RT: 3.65 min Scan# 223

Delta R.T. 0.00 min

Lab File: VL033292.D

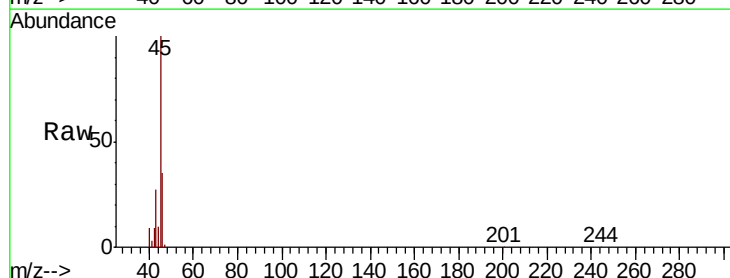
Acq: 12 Mar 2019 21:00

Tgt Ion: 45 Resp: 113131

Ion Ratio Lower Upper

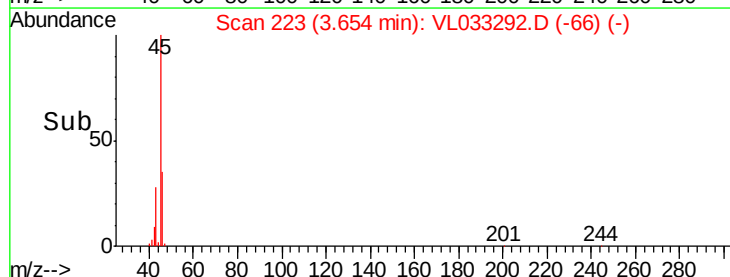
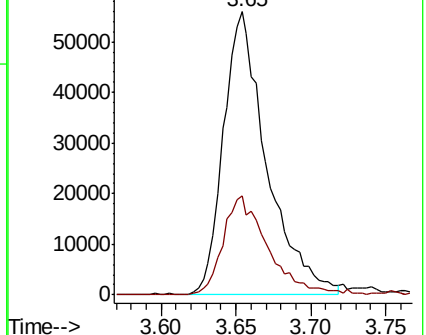
45 100

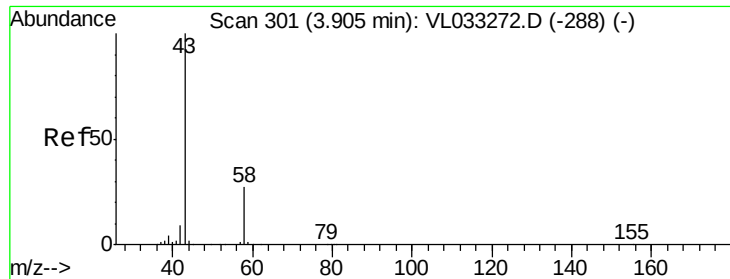
46 36.3 13.9 55.7



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





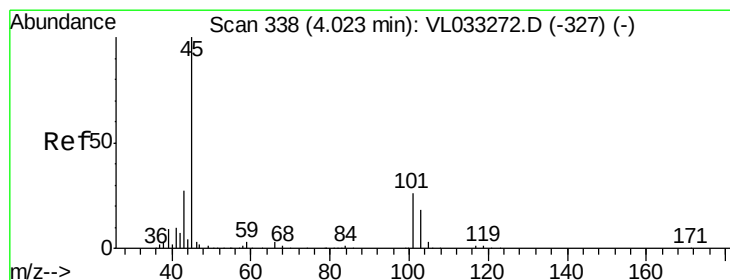
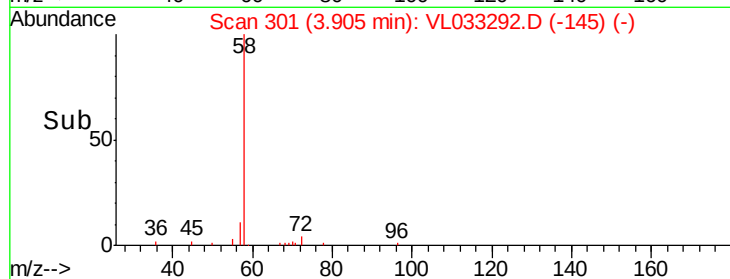
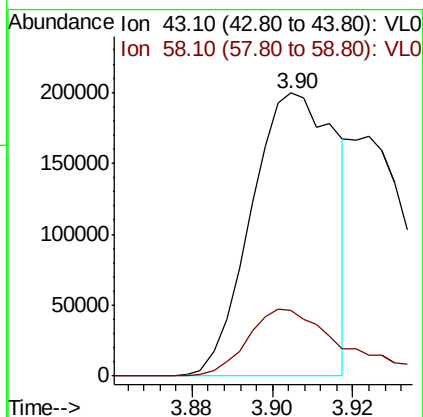
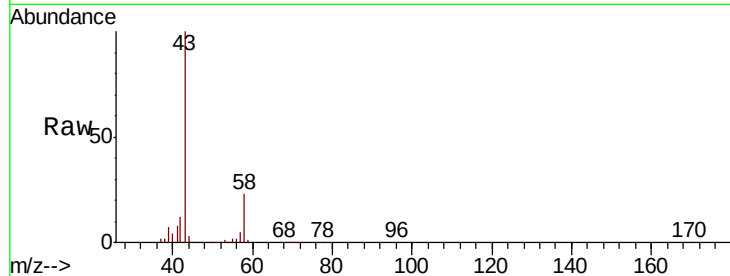
#15
Acetone
Concen: 2.488 ppbv m
RT: 3.90 min Scan# 301
Delta R.T. 0.00 min
Lab File: VL033292.D
Acq: 12 Mar 2019 21:00

Instrument :
MSVOA_L
ClientSampleId :
ST-IA-2

Tgt Ion: 43 Resp: 295631
Ion Ratio Lower Upper
43 100
58 26.8 21.1 31.7

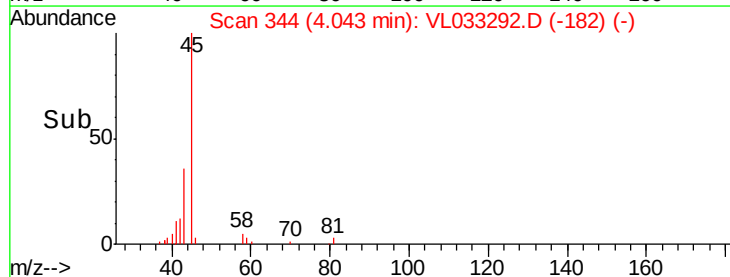
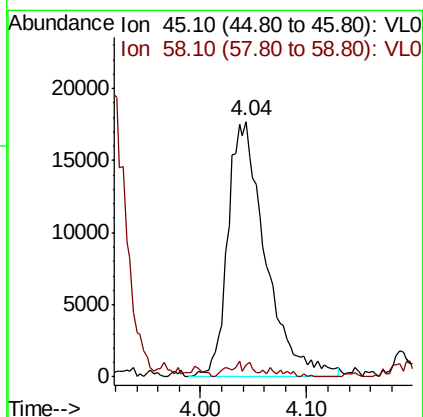
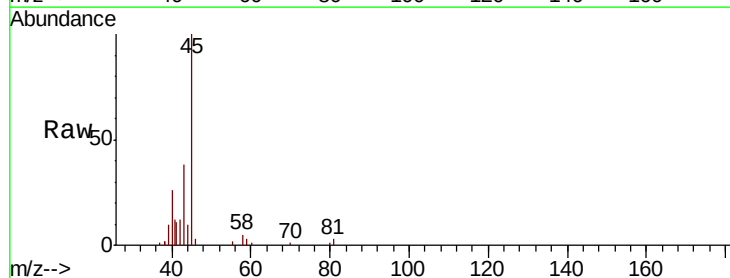
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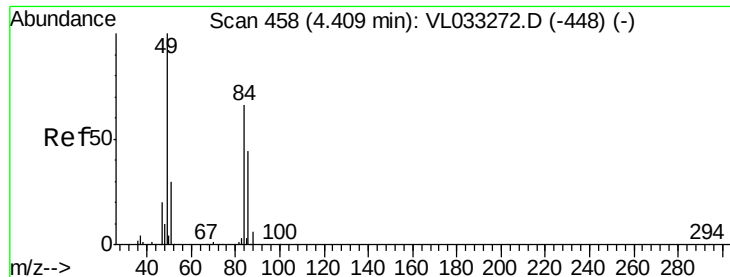
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#19
Isopropyl Alcohol
Concen: 0.607 ppbv m
RT: 4.04 min Scan# 344
Delta R.T. 0.02 min
Lab File: VL033292.D
Acq: 12 Mar 2019 21:00

Tgt Ion: 45 Resp: 43560
Ion Ratio Lower Upper
45 100
58 0.0 1.4 2.2#





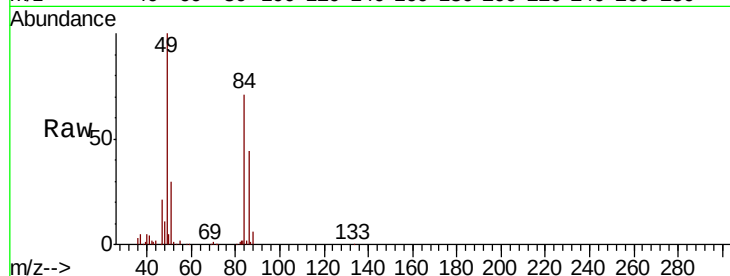
#20
Methylene Chloride
Concen: 2.750 ppbv
RT: 4.41 min Scan# 458
Delta R.T. 0.00 min
Lab File: VL033292.D
Acq: 12 Mar 2019 21:00

Instrument :
MSVOA_L
ClientSampleId :
ST-IA-2

Tgt Ion:	84	Resp:	108637
Ion	Ratio	Lower	Upper
84	100		
49	140.7	120.3	180.5
51	41.5	36.2	54.4
86	62.6	52.5	78.7

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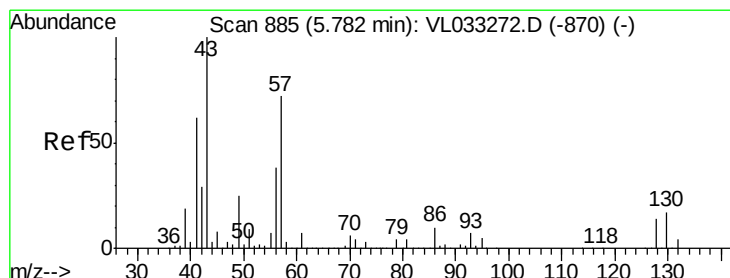
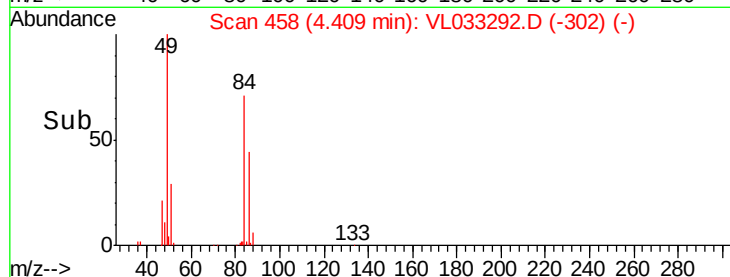
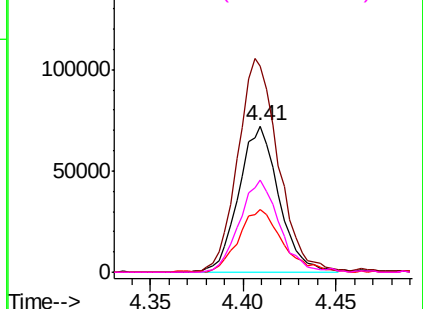
Abundance

Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0



#26
Hexane
Concen: 1.835 ppbv
RT: 5.78 min Scan# 884
Delta R.T. -0.00 min
Lab File: VL033292.D
Acq: 12 Mar 2019 21:00

Tgt Ion:	57	Resp:	157646
Ion	Ratio	Lower	Upper
57	100		
41	97.4	70.7	106.1
43	74.3	178.6	267.8#
56	56.1	41.3	61.9

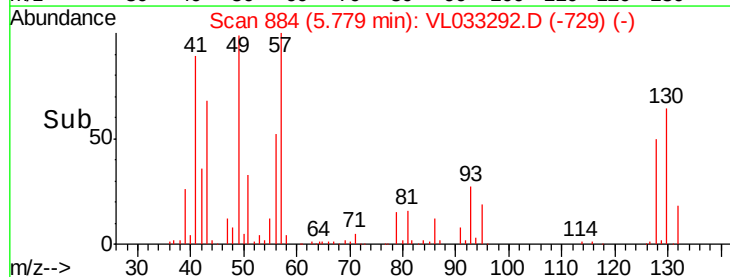
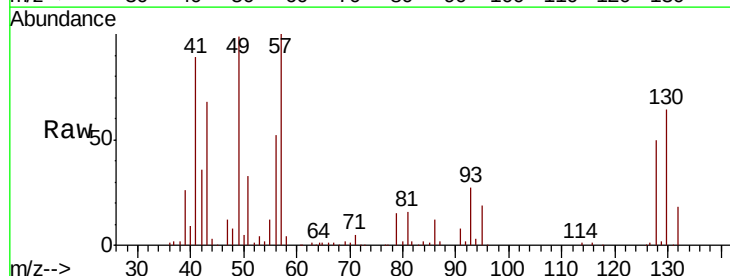
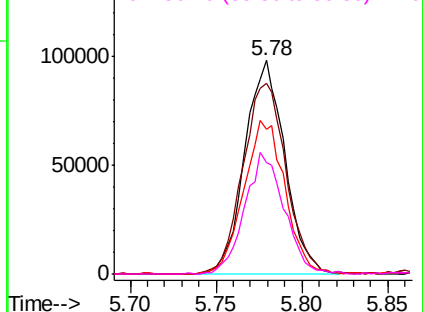
Abundance

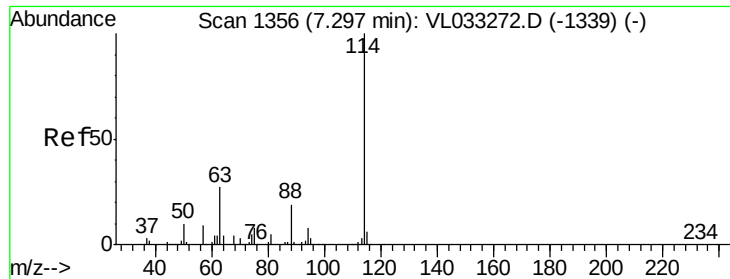
Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





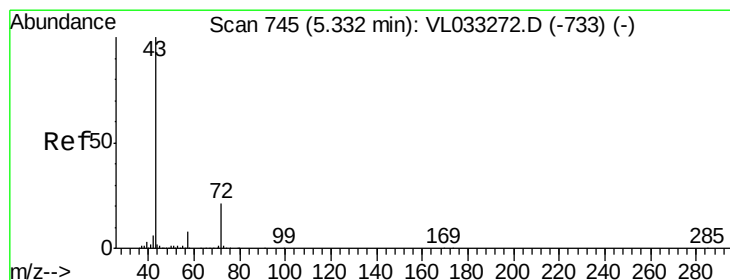
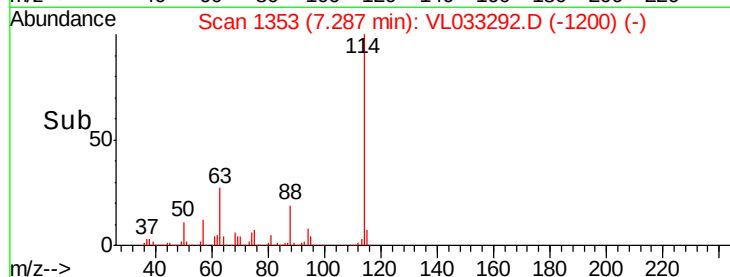
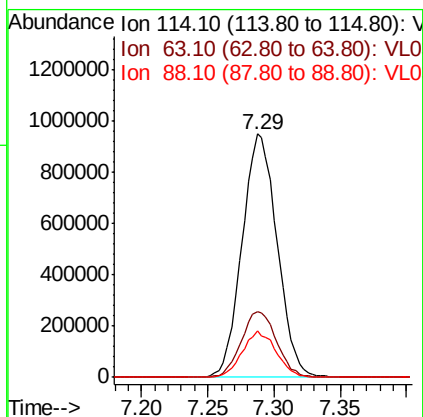
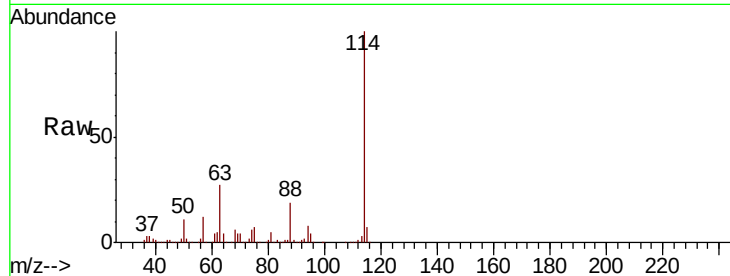
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1353
 Delta R.T. -0.01 min
 Lab File: VL033292.D
 Acq: 12 Mar 2019 21:00

Instrument :
 MSVOA_L
 ClientSampleId :
 ST-IA-2

Tgt Ion: 114 Resp: 1740503
 Ion Ratio Lower Upper
 114 100
 63 27.4 21.5 32.3
 88 18.4 14.6 22.0

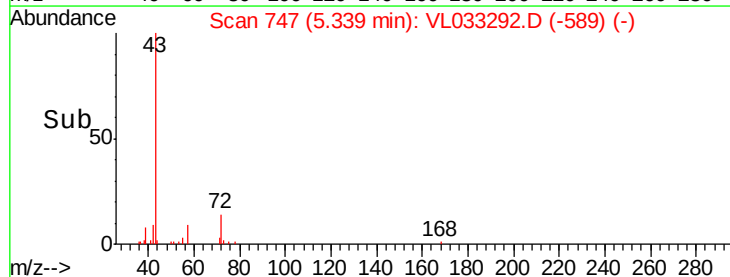
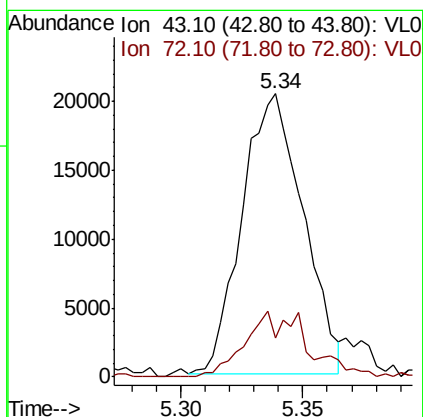
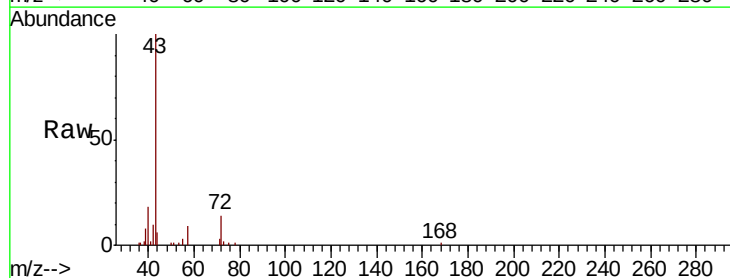
Manual Integrations
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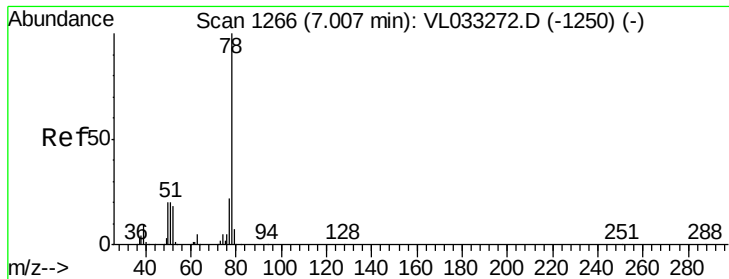
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#34
 2-Butanone
 Concen: 0.306 ppbv
 RT: 5.34 min Scan# 747
 Delta R.T. 0.01 min
 Lab File: VL033292.D
 Acq: 12 Mar 2019 21:00

Tgt Ion: 43 Resp: 35243
 Ion Ratio Lower Upper
 43 100
 72 24.0 17.0 25.6





#36

Benzene

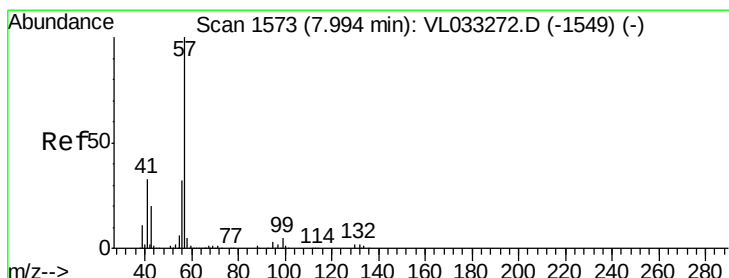
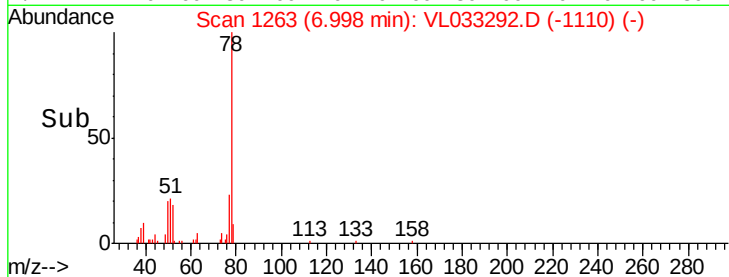
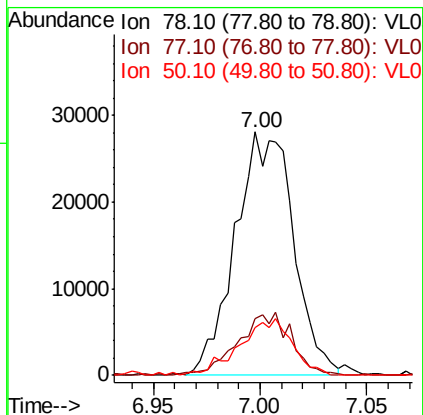
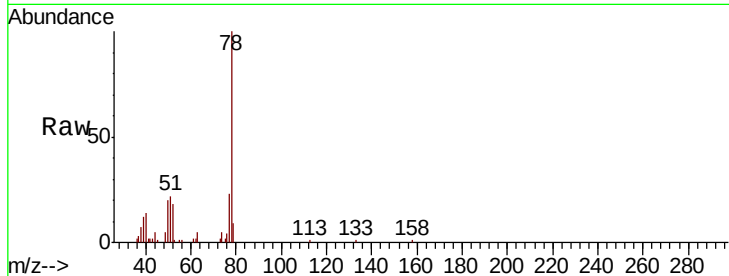
Concen: 0.331 ppbv m
RT: 7.00 min Scan# 1263
Delta R.T. -0.01 min
Lab File: VL033292.D
Acq: 12 Mar 2019 21:00

Instrument :
MSVOA_L
ClientSampleId :
ST-IA-2

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.1	17.7	26.5
50	19.8	15.7	23.5

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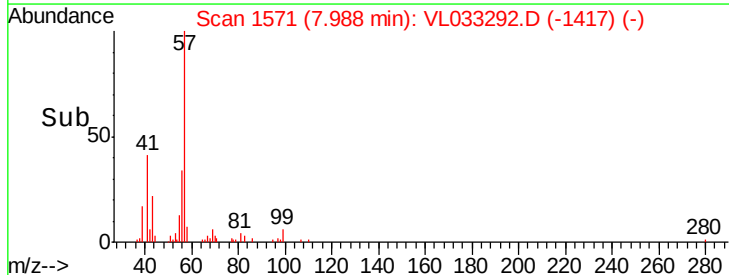
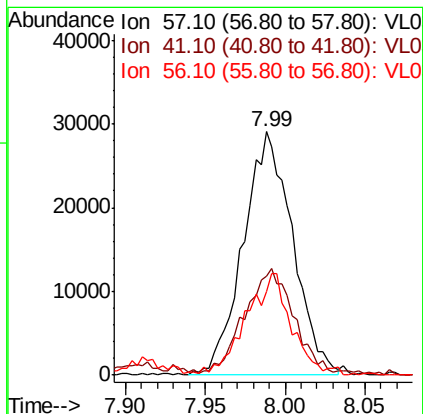
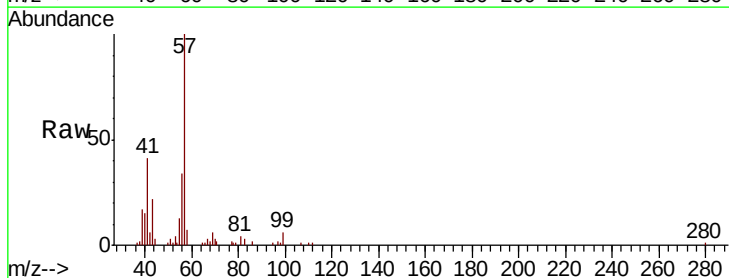


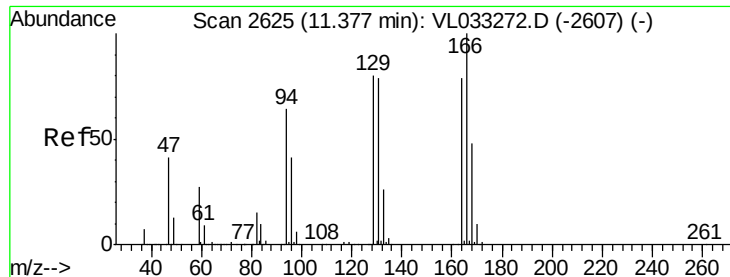
#44

2,2,4-Trimethylpentane

Concen: 0.226 ppbv
RT: 7.99 min Scan# 1571
Delta R.T. -0.01 min
Lab File: VL033292.D
Acq: 12 Mar 2019 21:00

Tgt Ion	Ratio	Lower	Upper
57	100		
41	46.5	26.2	39.2#
56	38.9	24.8	37.2#





#52

Tetrachloroethene

Concen: 0.170 ppbv m

RT: 11.37 min Scan# 2623

Delta R.T. -0.01 min

Lab File: VL033292.D

Acq: 12 Mar 2019 21:00

Instrument :

MSVOA_L

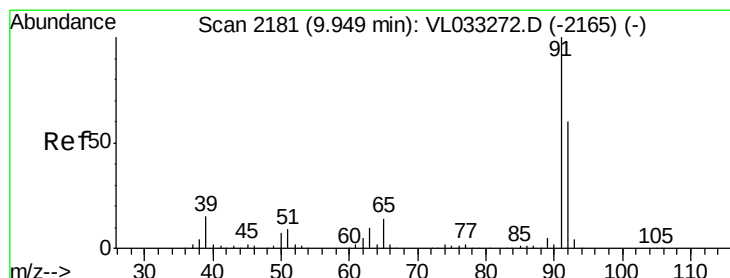
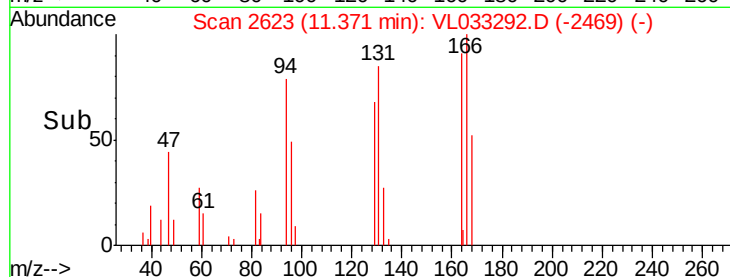
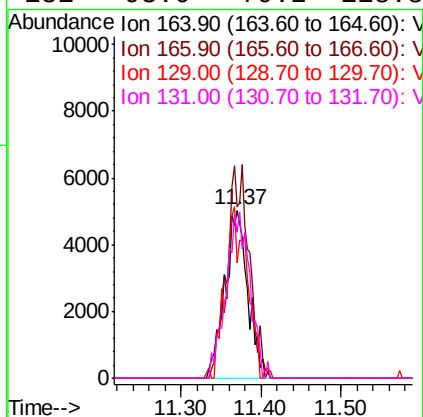
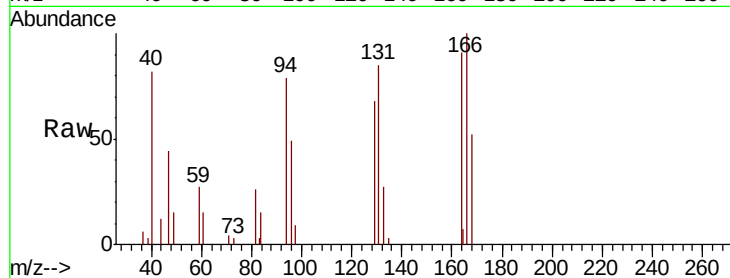
ClientSampled :

ST-IA-2

Tgt Ion:	164	Resp:	10009
Ion Ratio	Lower	Upper	
164	100		
166	109.5	100.8	151.2
129	74.1	80.6	121.0#
131	93.0	79.2	118.8

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#53

Toluene

Concen: 2.556 ppbv

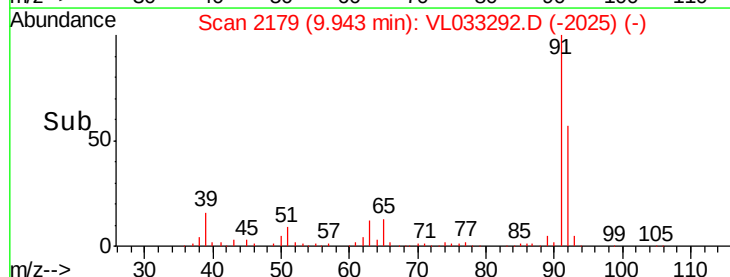
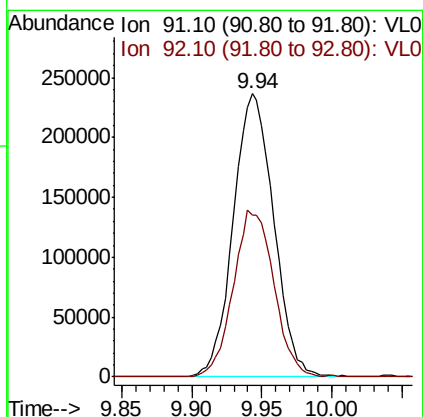
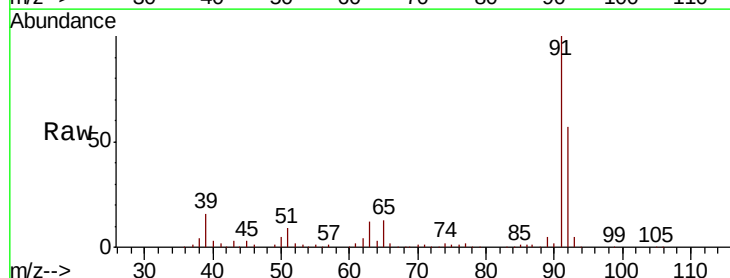
RT: 9.94 min Scan# 2179

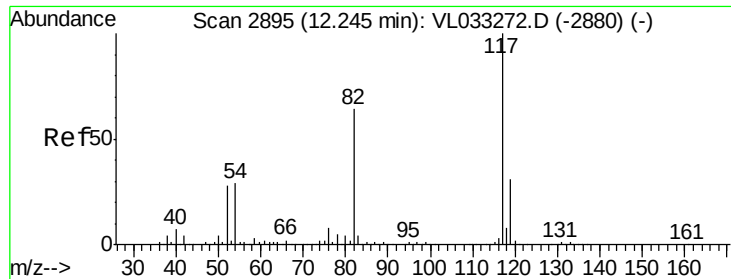
Delta R.T. -0.01 min

Lab File: VL033292.D

Acq: 12 Mar 2019 21:00

Tgt Ion:	91	Resp:	472977
Ion Ratio	Lower	Upper	
91	100		
92	59.4	47.8	71.8





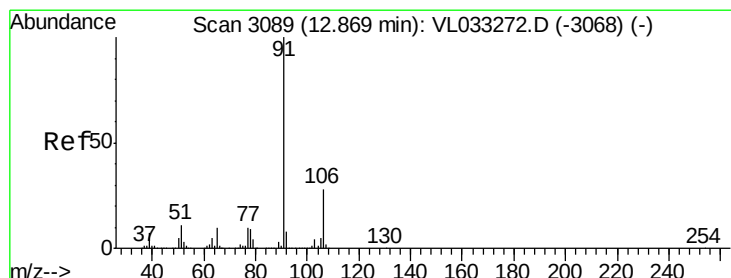
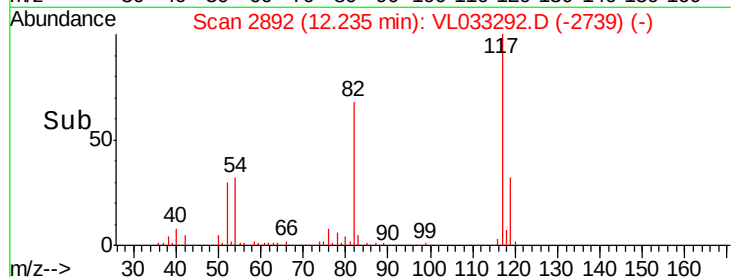
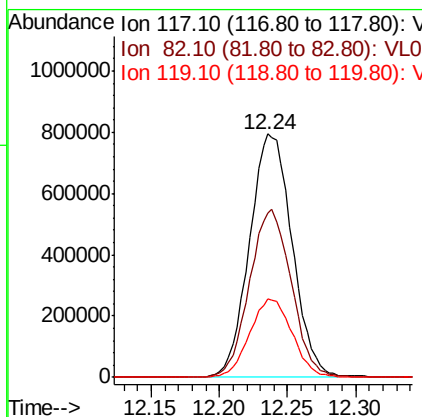
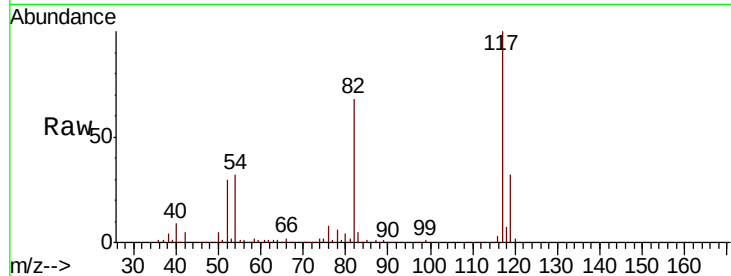
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2892
Delta R.T. -0.01 min
Lab File: VL033292.D
Acq: 12 Mar 2019 21:00

Instrument :
MSVOA_L
ClientSampled :
ST-IA-2

Tgt Ion: 117 Resp: 1720189
Ion Ratio Lower Upper
117 100
82 68.7 51.1 76.7
119 32.1 43.6 65.4#

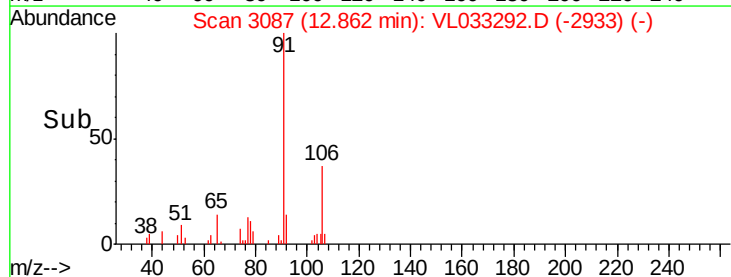
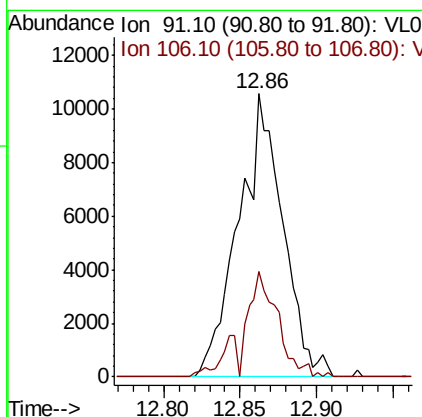
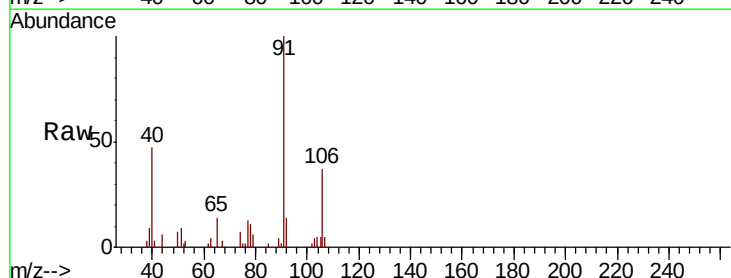
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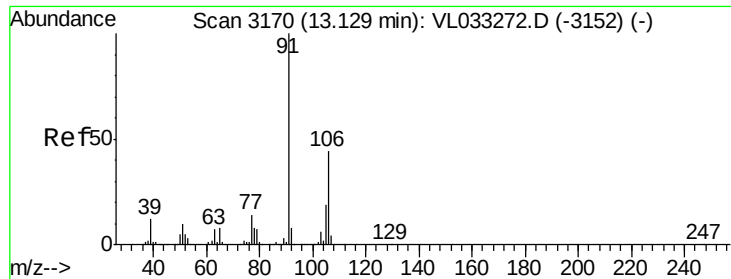
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3/14/2019 5:06:29 AM



#58
Ethyl Benzene
Concen: 0.089 ppbv m
RT: 12.86 min Scan# 3087
Delta R.T. -0.01 min
Lab File: VL033292.D
Acq: 12 Mar 2019 21:00

Tgt Ion: 91 Resp: 21114
Ion Ratio Lower Upper
91 100
106 37.3 22.5 33.7#





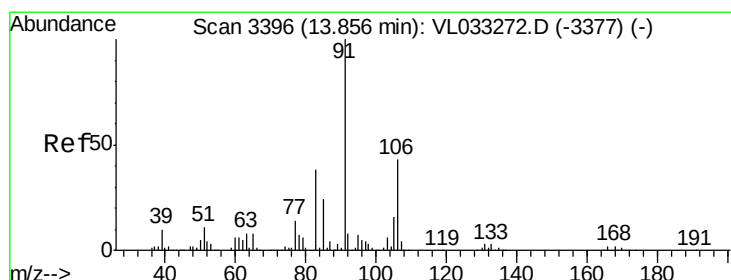
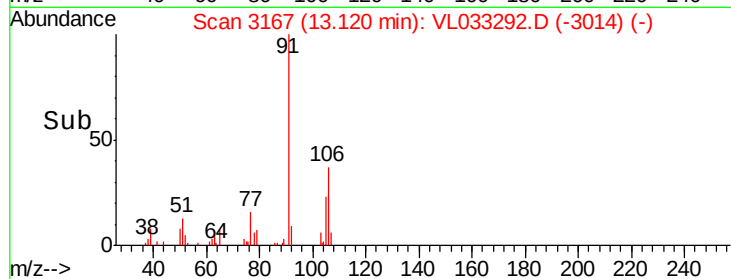
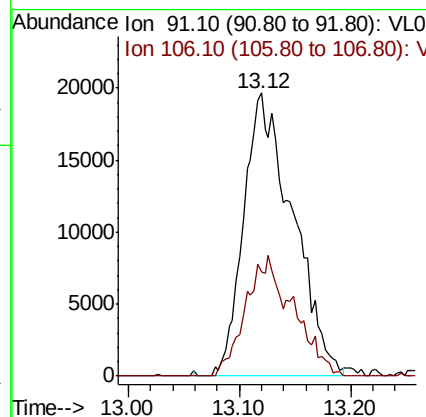
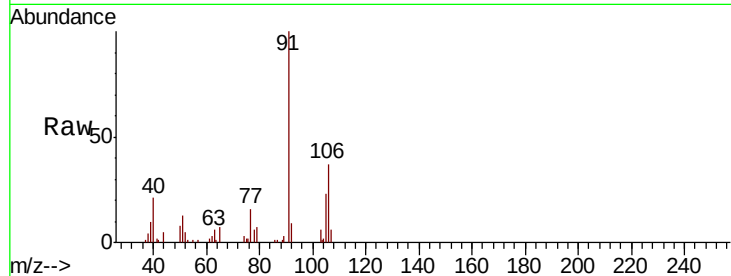
#59
m/p-Xylene
Concen: 0.304 ppbv m
RT: 13.12 min Scan# 3167
Delta R.T. -0.01 min
Lab File: VL033292.D
Acq: 12 Mar 2019 21:00

Instrument :
MSVOA_L
ClientSampled :
ST-IA-2

Tgt Ion: 91 Resp: 60098
Ion Ratio Lower Upper
91 100
106 0.0 35.5 53.3#

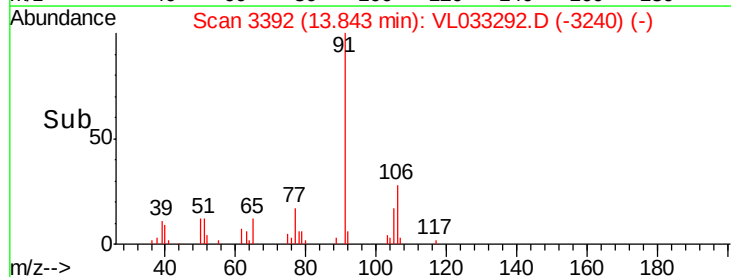
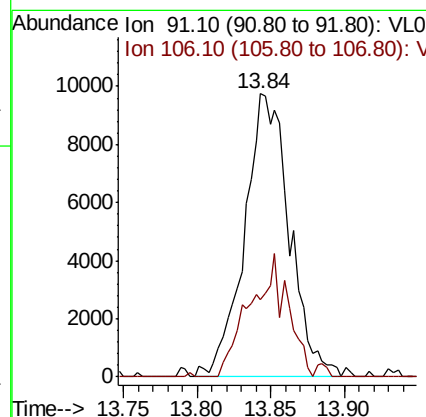
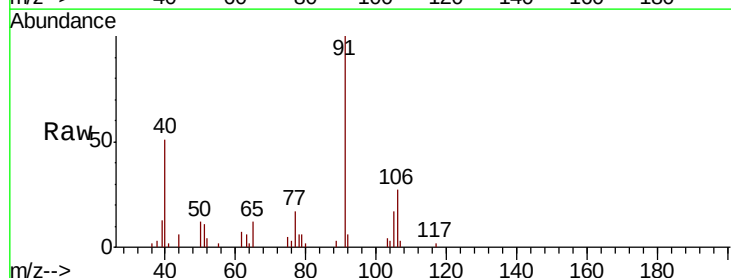
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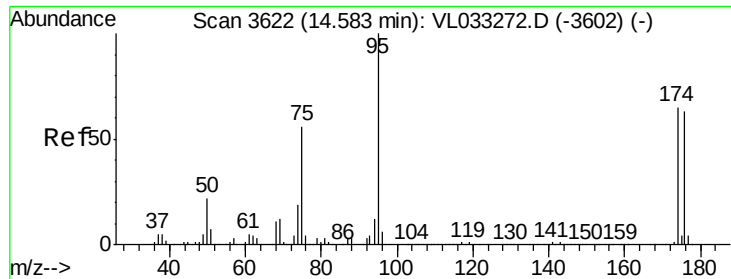
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#60
o-Xylene
Concen: 0.109 ppbv m
RT: 13.84 min Scan# 3392
Delta R.T. -0.01 min
Lab File: VL033292.D
Acq: 12 Mar 2019 21:00

Tgt Ion: 91 Resp: 20720
Ion Ratio Lower Upper
91 100
106 0.0 21.3 63.7#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.313 ppbv

RT: 14.57 min Scan# 3619

Delta R.T. -0.01 min

Lab File: VL033292.D

Acq: 12 Mar 2019 21:00

Instrument :

MSVOA_L

ClientSampleId :

ST-IA-2

Tgt Ion: 95 Resp: 1370009

Ion Ratio Lower Upper

95 100

174 64.3 51.7 77.5

175 4.6 3.7 5.5

Manual Integrations

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3/14/2019 5:06:29 AM

