

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL121317\
 Data File : VL031225.D
 Acq On : 14 Dec 2017 10:32
 Operator : SY/AP
 Sample : I6769-03
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSV-3A

Manual Integrations
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 12/15/2017 4:07:04 PM

Quant Time: Dec 15 06:16:59 2017
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL121317AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Dec 14 2017
 QLast Update : Thu Dec 14 04:29:58 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.91	49	1521110	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.45	114	3702618	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.41	117	2789860	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.75	95	2397365	12.08	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	120.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.18	85	93272	0.73	ppbv	100
3) Chlorodifluoromethane	3.12	51	63871m	0.37	ppbv	
4) Chloromethane	3.28	50	24277	0.26	ppbv #	83
9) Propene	3.15	41	67783	0.80	ppbv #	73
10) Heptane	8.41	43	47315	0.18	ppbv	100
11) Trichlorofluoromethane	4.13	101	65594	0.31	ppbv	92
12) 1,1,2-Trichlorotrifluoroet	4.68	101	11257m	0.08	ppbv	
13) Ethanol	3.77	45	283015	11.56	ppbv	99
15) Acetone	4.02	43	4129326	20.57	ppbv	98
17) tert-Butyl alcohol	4.50	59	69159	0.61	ppbv #	94
19) Isopropyl Alcohol	4.16	45	269765	2.12	ppbv #	41
20) Methylene Chloride	4.54	84	407220	6.13	ppbv	96
26) Hexane	5.93	57	768122	3.95	ppbv #	47
27) Carbon Disulfide	4.76	76	35504	0.18	ppbv #	45
34) 2-Butanone	5.48	43	198053	0.76	ppbv	99
35) Carbon Tetrachloride	7.29	117	97489	0.37	ppbv	97
36) Benzene	7.16	78	86654	0.22	ppbv	98
44) 2,2,4-Trimethylpentane	8.15	57	76787	0.13	ppbv #	84
52) Tetrachloroethene	11.54	164	107127m	0.74	ppbv	
53) Toluene	10.11	91	651499	1.53	ppbv	98
58) Ethyl Benzene	13.03	91	3815769	8.28	ppbv	98
59) m/p-Xylene	13.30	91	14157775	38.40	ppbv	97
60) o-Xylene	14.02	91	4174667	11.23	ppbv	99
61) Styrene	13.85	104	26937m	0.25	ppbv	
62) Isopropylbenzene	15.00	105	83738	0.17	ppbv	100
72) 4-Ethyltoluene	16.17	105	169003	0.42	ppbv #	96
73) 1,3,5-Trimethylbenzene	16.33	105	184414	0.51	ppbv	95
74) 1,2,4-Trimethylbenzene	17.10	105	530788	1.39	ppbv #	75

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

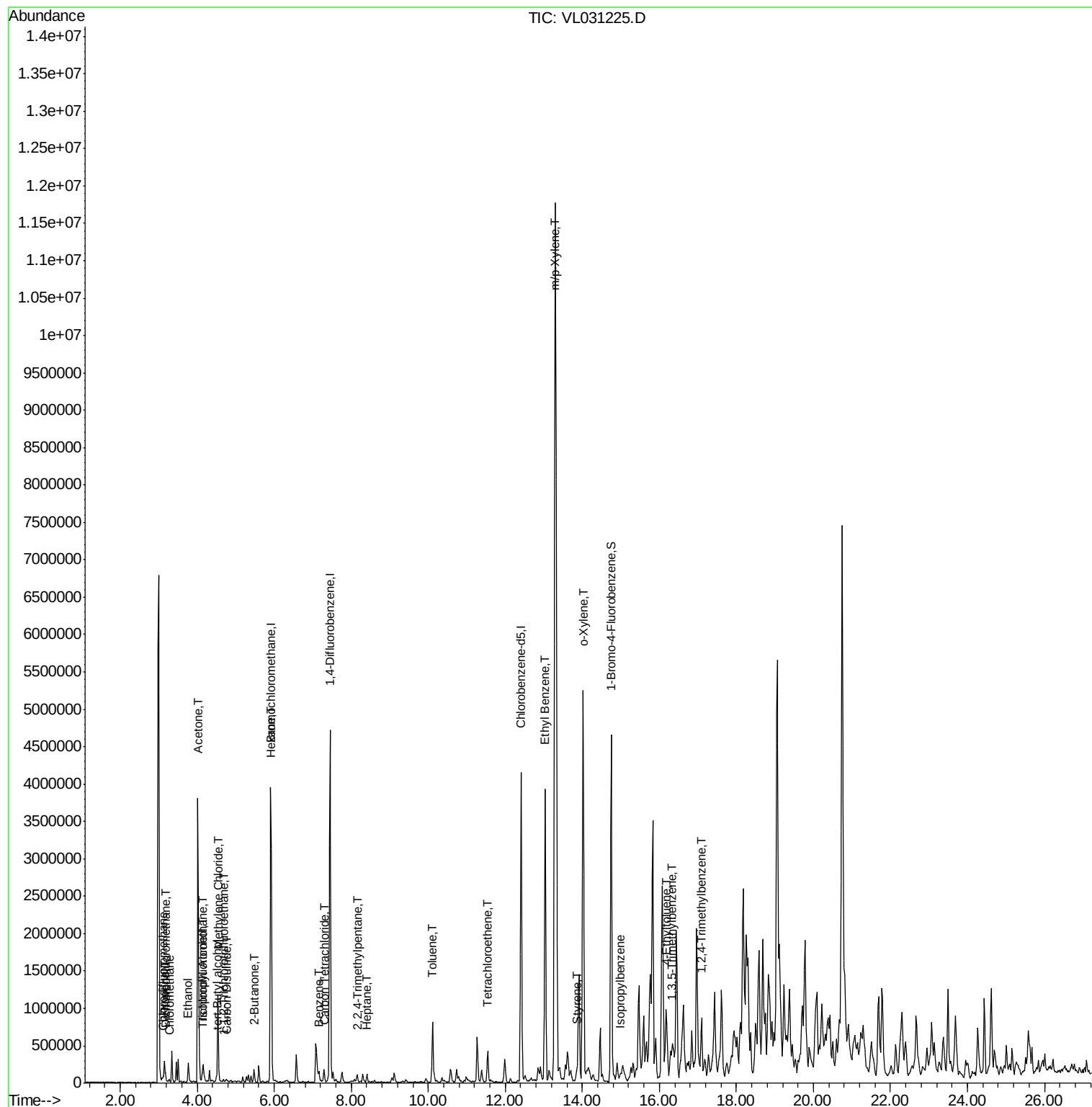
Data Path : W:\HPCHEM1\MSVOA L\DATA\VL121317\
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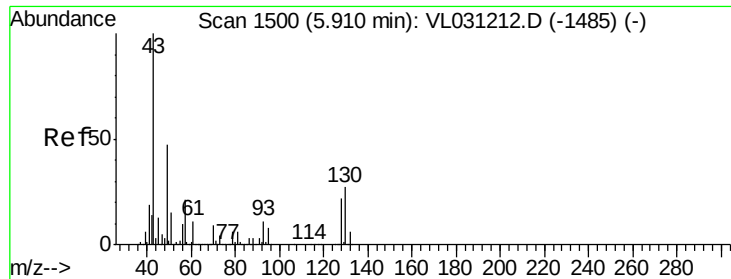
Instrument :
MSVOA_L
ClientSampleId :
SSV-3A

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Quant Time: Dec 15 06:16:59 2017
Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL121317AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Dec
QLast Update : Thu Dec 14 04:29:58 2017
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.91 min Scan# 1500

Delta R.T. 0.00 min

Lab File: VL031225.D

Acq: 14 Dec 2017 10:32

Instrument :

MSVOA_L

ClientSampleId :

SSV-3A

Tot Ion: 49 Resp: 1521110

Ion Ratio Lower Upper

49 100

128 48.5 23.2 69.5

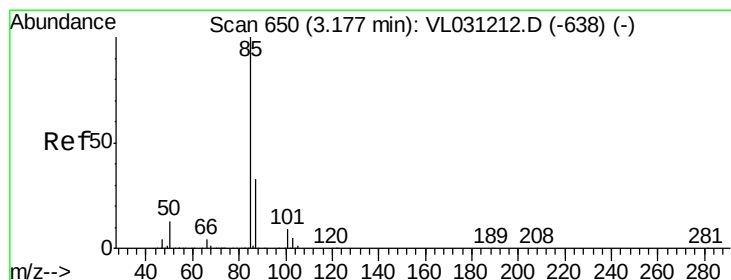
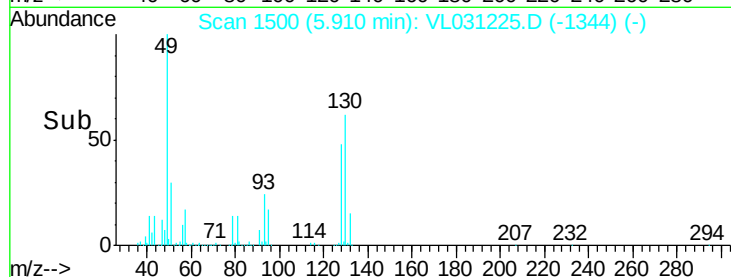
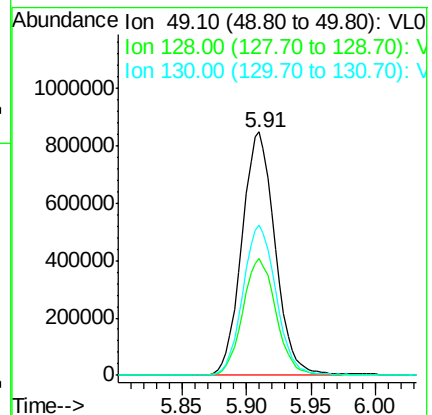
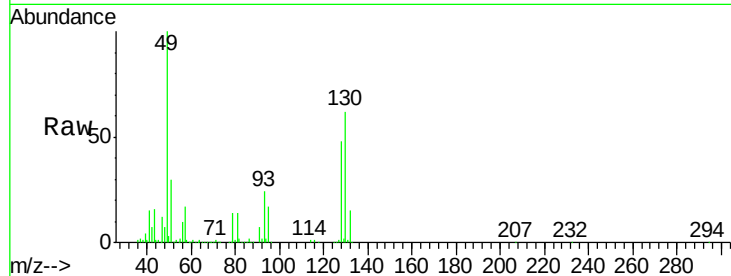
130 62.5 29.6 88.8

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#2

Dichlorodifluoromethane

Concen: 0.73 ppbv

RT: 3.18 min Scan# 651

Delta R.T. 0.00 min

Lab File: VL031225.D

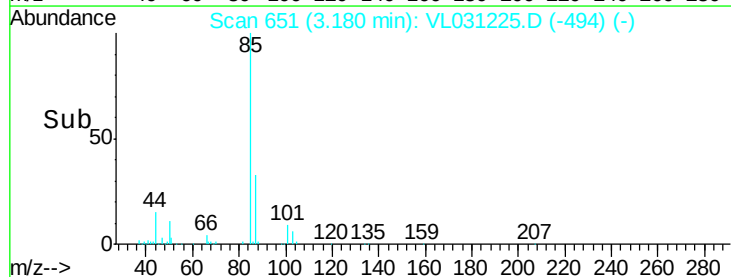
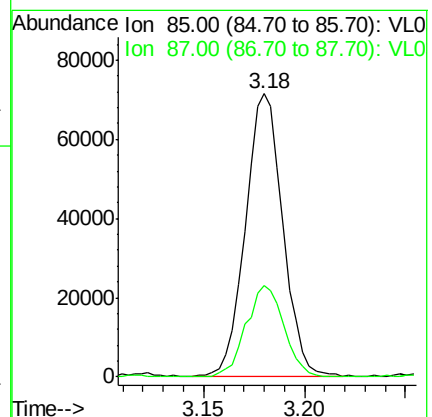
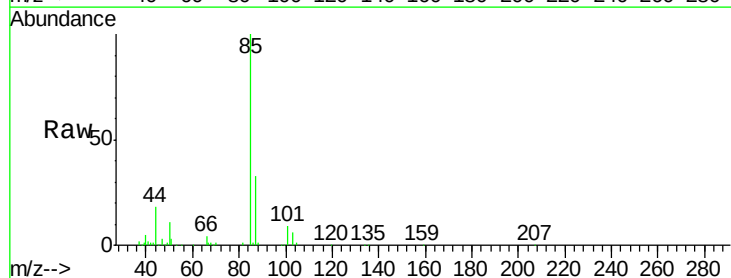
Acq: 14 Dec 2017 10:32

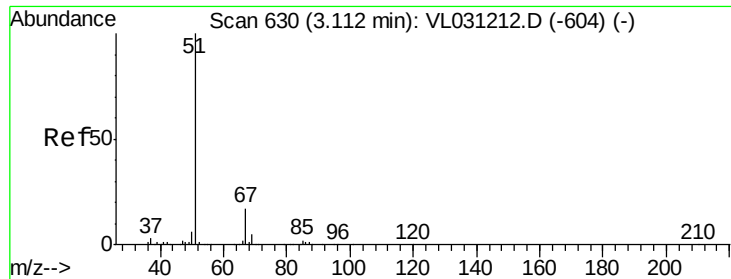
Tgt Ion: 85 Resp: 93272

Ion Ratio Lower Upper

85 100

87 32.5 26.2 39.2





#3

Chlorodifluoromethane

Concen: 0.37 ppbv m

RT: 3.12 min Scan# 632

Delta R.T. 0.01 min

Lab File: VL031225.D

Acq: 14 Dec 2017 10:32

Instrument :

MSVOA_L

ClientSampleId :

SSV-3A

Tot Ion: 51 Resp: 63871

Ion Ratio Lower Upper

51 100

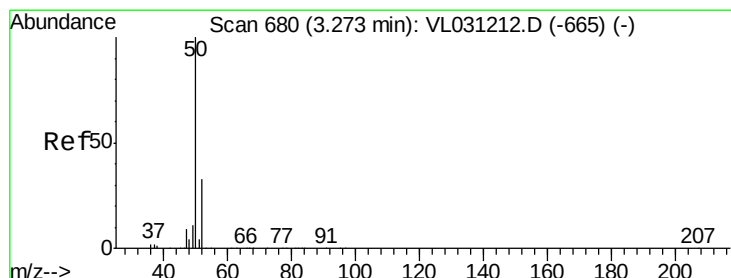
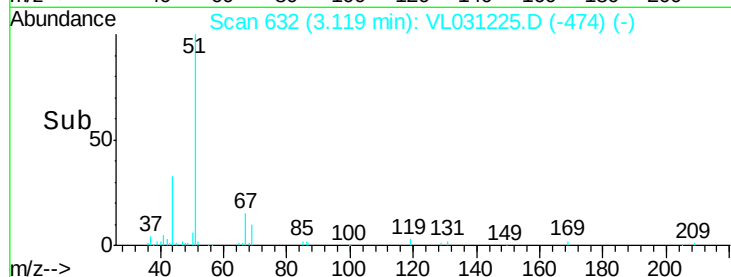
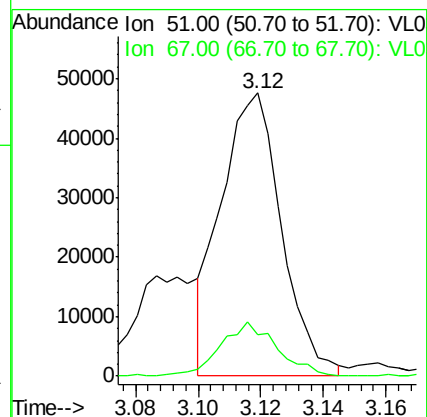
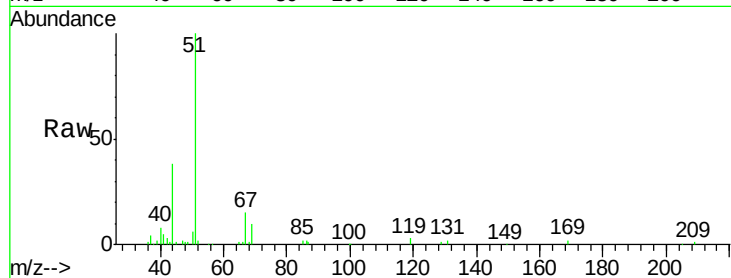
67 17.9 13.8 20.6

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#4

Chloromethane

Concen: 0.26 ppbv

RT: 3.28 min Scan# 681

Delta R.T. 0.00 min

Lab File: VL031225.D

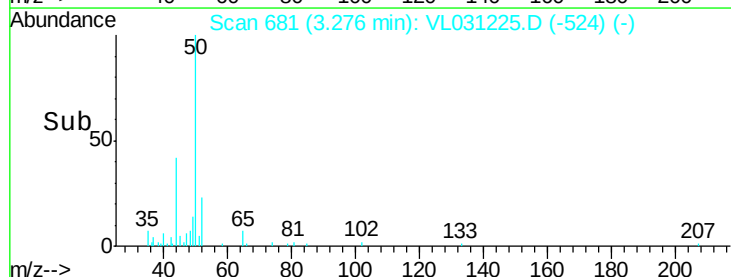
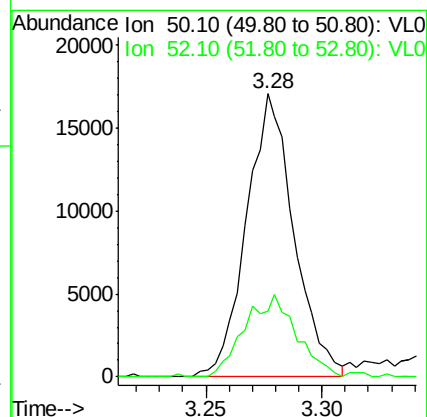
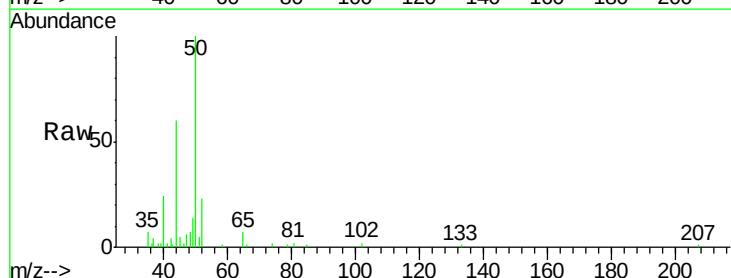
Acq: 14 Dec 2017 10:32

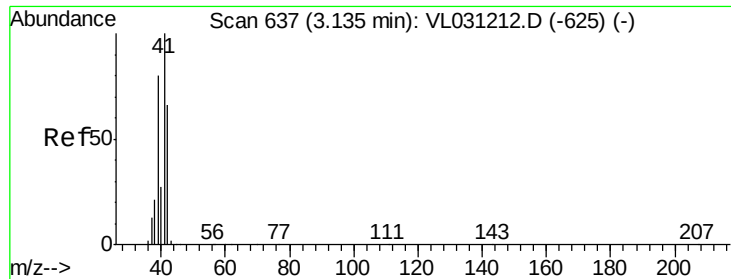
Tgt Ion: 50 Resp: 24277

Ion Ratio Lower Upper

50 100

52 23.3 26.5 39.7#





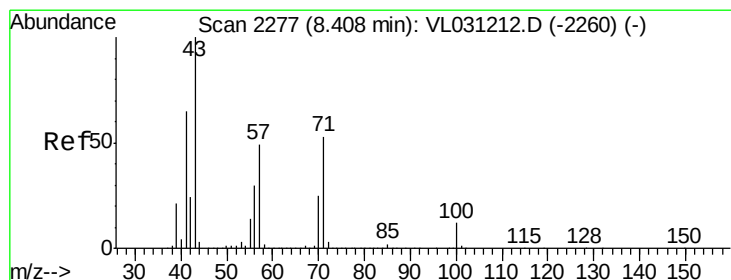
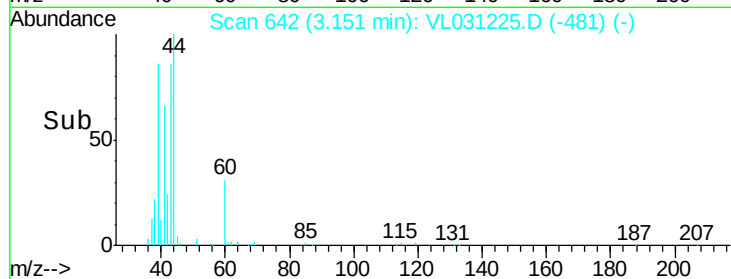
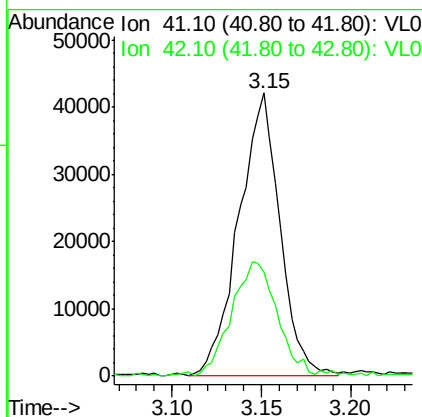
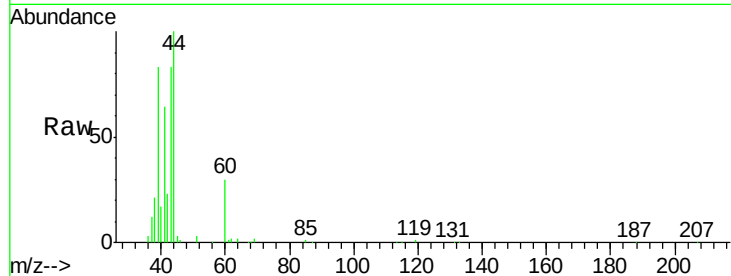
#9
 Propene
 Concen: 0.80 ppbv
 RT: 3.15 min Scan# 642
 Delta R.T. 0.02 min
 Lab File: VL031225.D
 Acq: 14 Dec 2017 10:32

Instrument :
 MSVOA_L
 ClientSampleId :
 SSV-3A

Tot Ion: 41 Resp: 67783
 Ion Ratio Lower Upper
 41 100
 42 45.8 54.3 81.5#

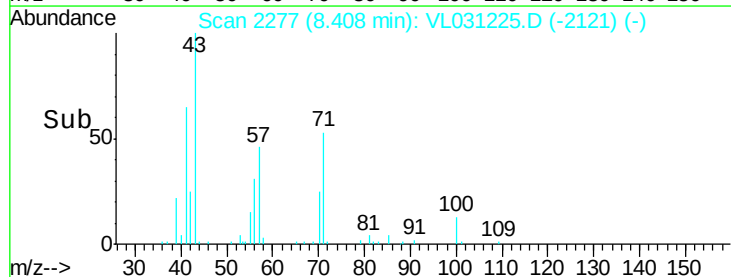
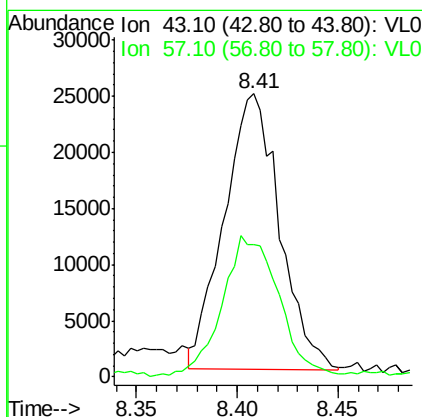
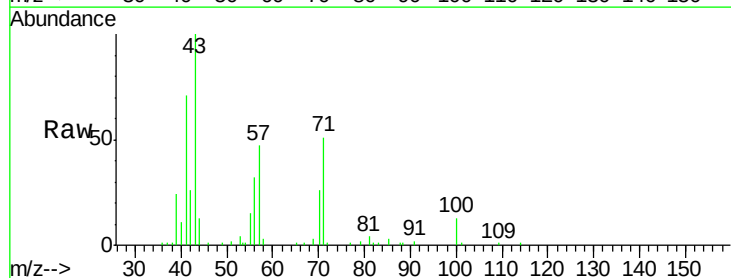
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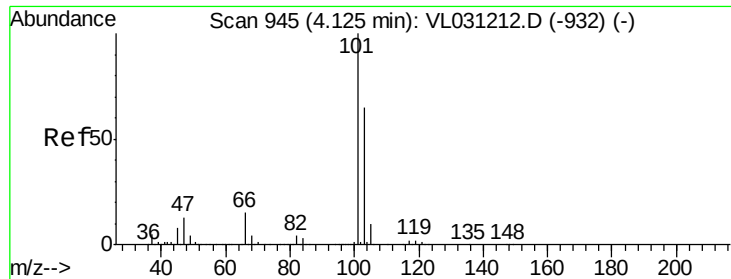
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#10
 Heptane
 Concen: 0.18 ppbv
 RT: 8.41 min Scan# 2277
 Delta R.T. 0.00 min
 Lab File: VL031225.D
 Acq: 14 Dec 2017 10:32

Tgt Ion: 43 Resp: 47315
 Ion Ratio Lower Upper
 43 100
 57 49.6 39.8 59.8





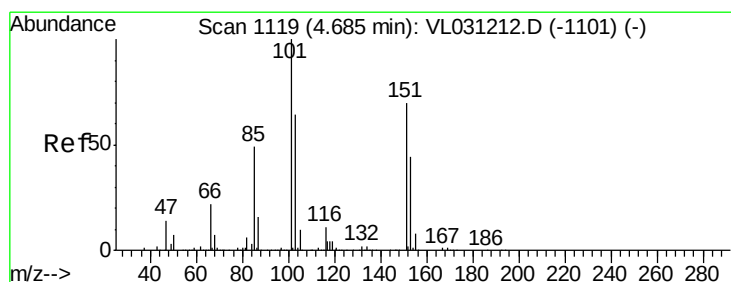
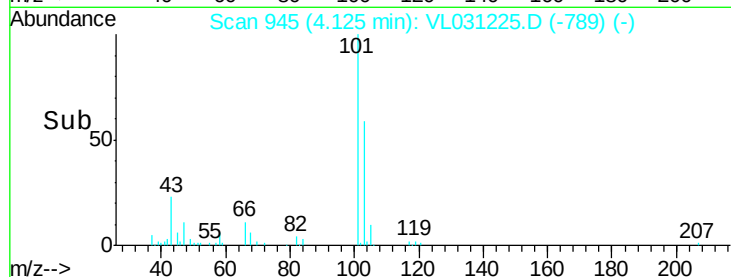
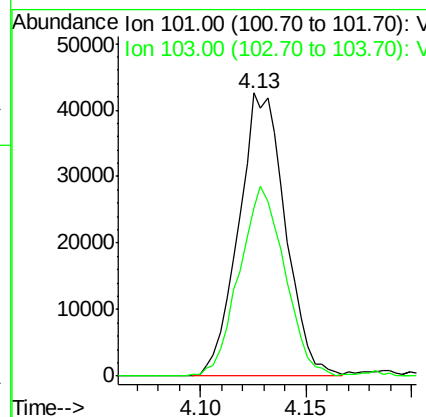
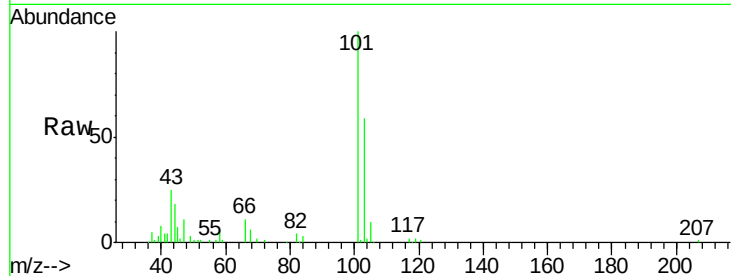
#11
 Trichlorofluoromethane
 Concen: 0.31 ppbv
 RT: 4.13 min Scan# 945
 Delta R.T. 0.00 min
 Lab File: VL031225.D
 Acq: 14 Dec 2017 10:32

Instrument :
 MSVOA_L
 ClientSampleId :
 SSV-3A

Tot Ion	Ratio	Lower	Upper
101	100		
103	58.5	51.8	77.8

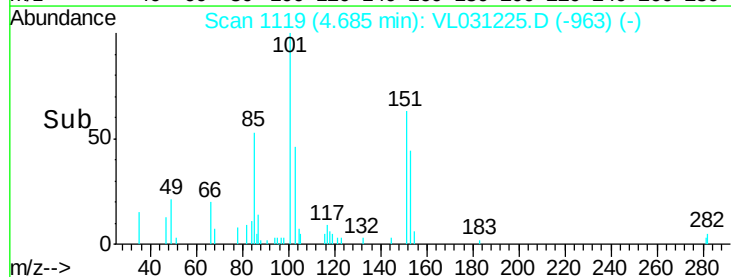
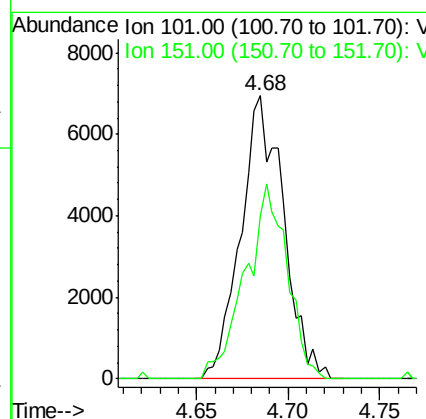
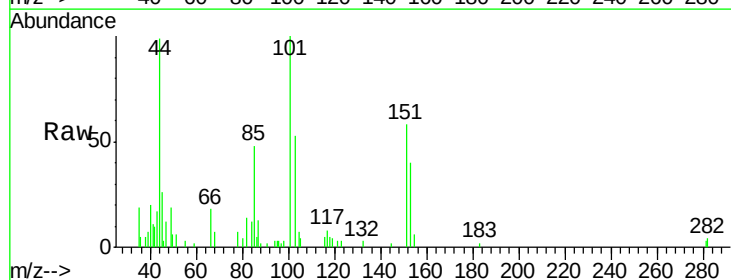
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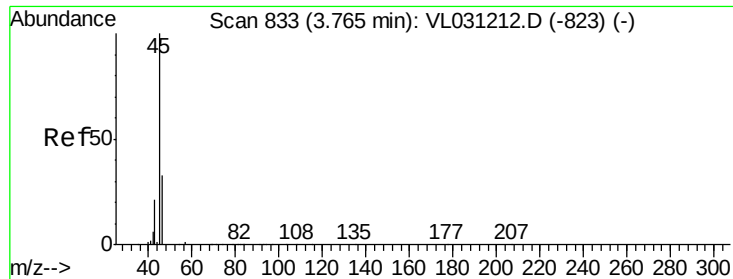
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.08 ppbv m
 RT: 4.68 min Scan# 1119
 Delta R.T. 0.00 min
 Lab File: VL031225.D
 Acq: 14 Dec 2017 10:32

Tgt Ion	Ratio	Lower	Upper
101	100		
151	0.0	56.5	84.7#





#13

Ethanol

Concen: 11.56 ppbv

RT: 3.77 min Scan# 834

Delta R.T. 0.00 min

Lab File: VL031225.D

Acq: 14 Dec 2017 10:32

Instrument :

MSVOA_L

ClientSampleId :

SSV-3A

Tot Ion: 45 Resp: 283015

Ion Ratio Lower Upper

45 100

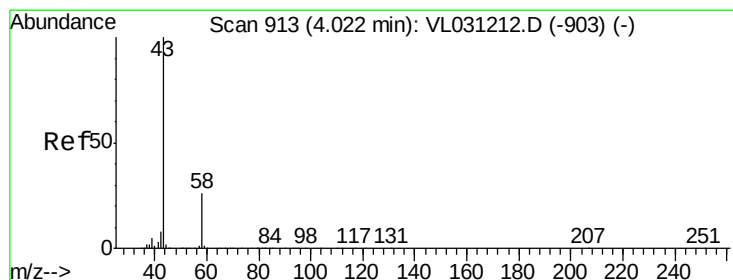
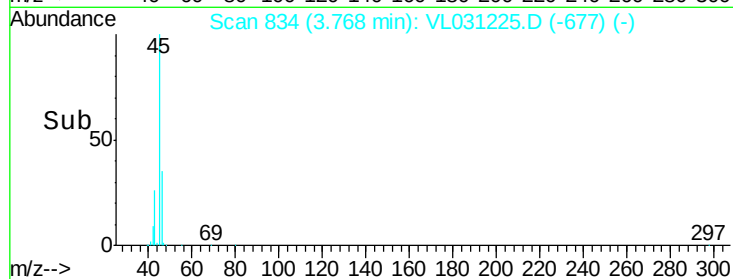
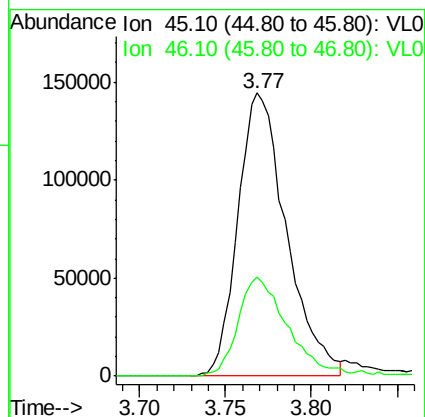
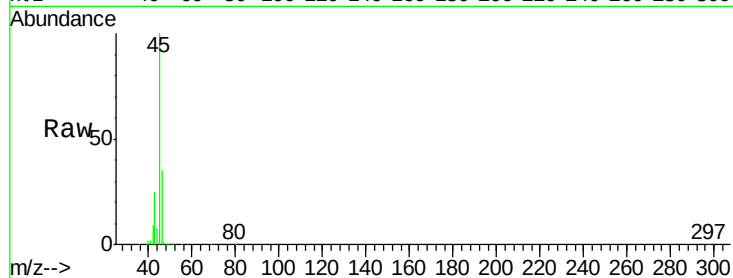
46 37.3 14.6 58.4

Manual Integrations

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#15

Acetone

Concen: 20.57 ppbv

RT: 4.02 min Scan# 912

Delta R.T. -0.00 min

Lab File: VL031225.D

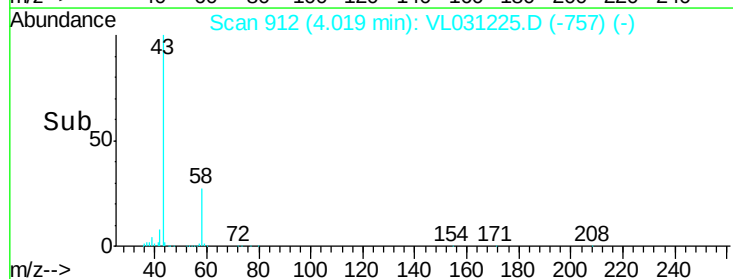
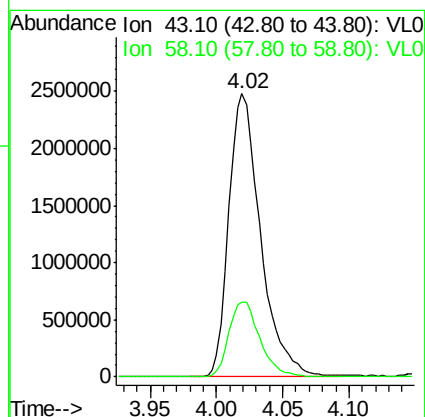
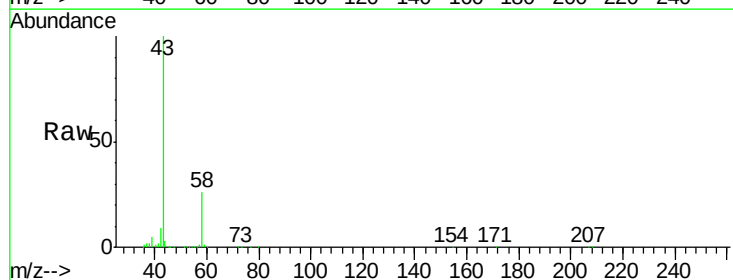
Acq: 14 Dec 2017 10:32

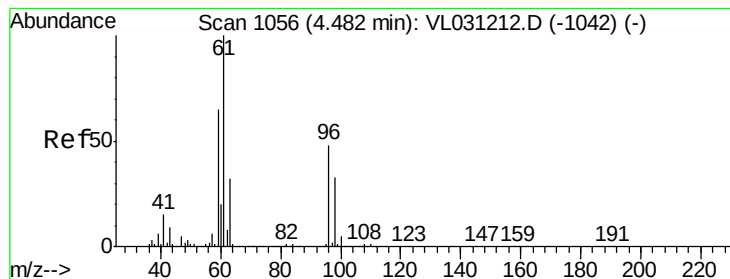
Tgt Ion: 43 Resp: 4129326

Ion Ratio Lower Upper

43 100

58 26.3 20.3 30.5





#17

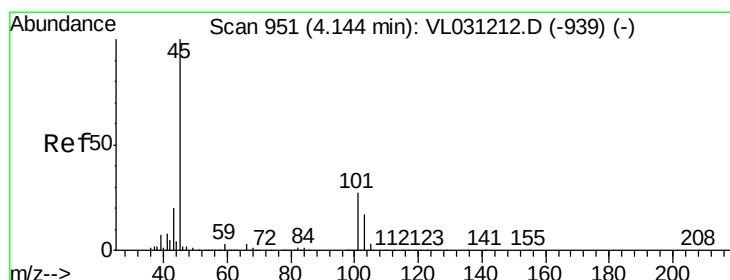
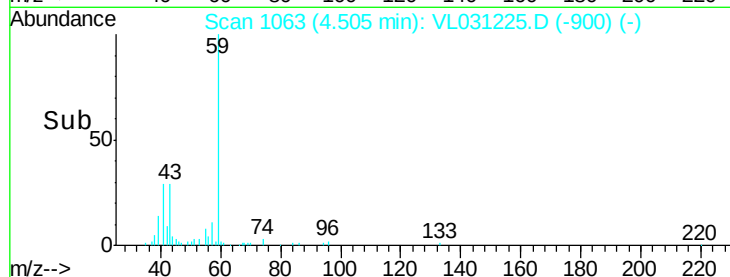
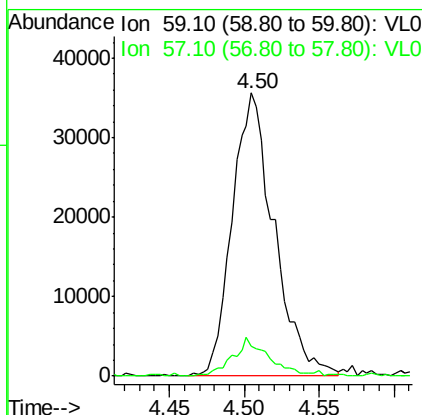
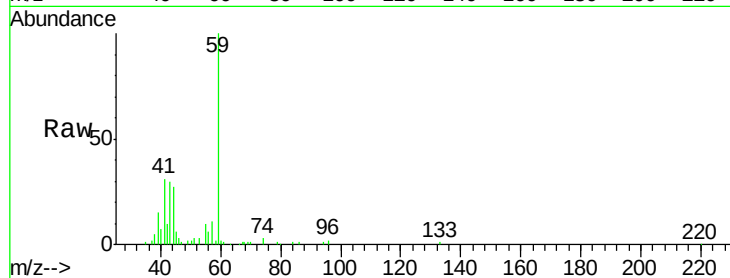
tert-Butyl alcohol
Concen: 0.61 ppbv
RT: 4.50 min Scan# 1063
Delta R.T. 0.02 min
Lab File: VL031225.D
Acq: 14 Dec 2017 10:32

Instrument :
MSVOA_L
ClientSampled :
SSV-3A

Tot Ion	59	Resp	69159
Ion Ratio	Lower	Upper	
59	100		
57	12.5	8.2	12.2#

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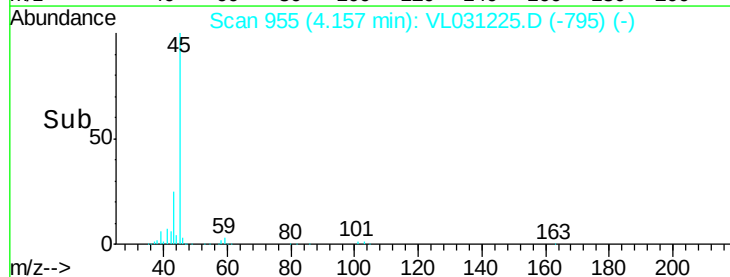
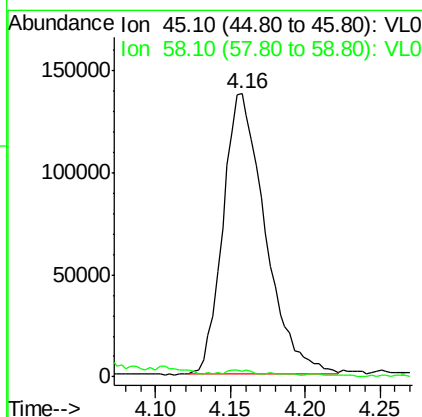
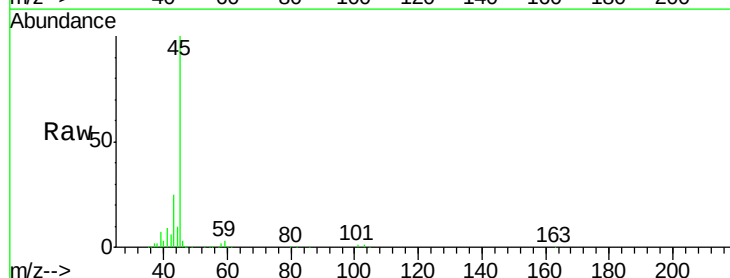
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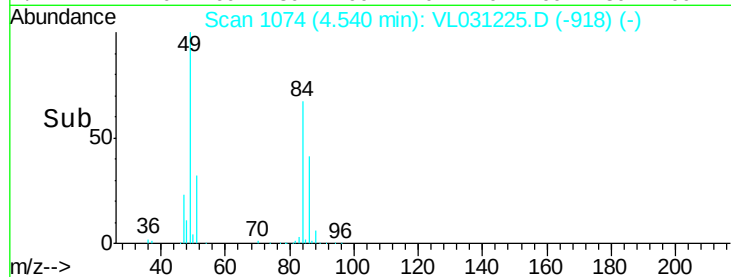
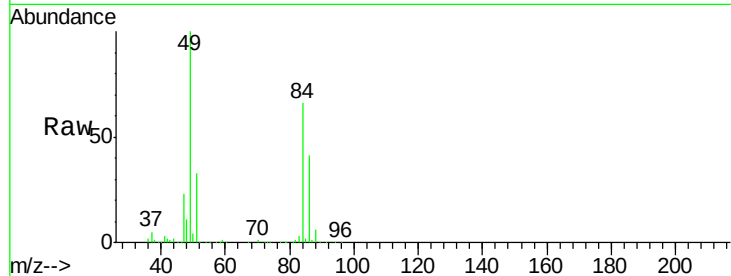
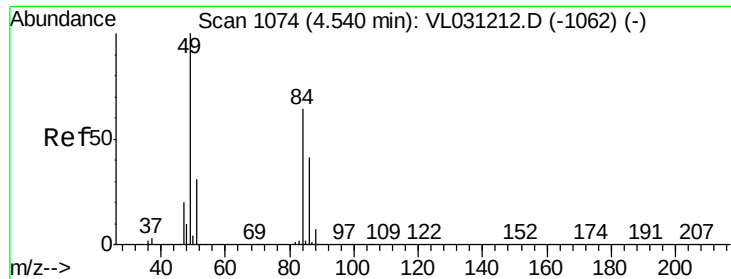


#19

Isopropyl Alcohol
Concen: 2.12 ppbv
RT: 4.16 min Scan# 955
Delta R.T. 0.01 min
Lab File: VL031225.D
Acq: 14 Dec 2017 10:32

Tgt Ion	45	Resp	269765
Ion Ratio	Lower	Upper	
45	100		
58	0.0	27.2	40.8#





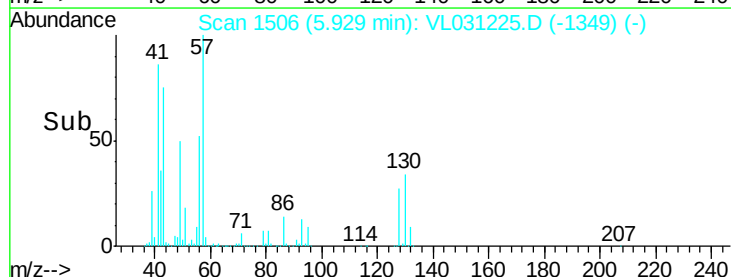
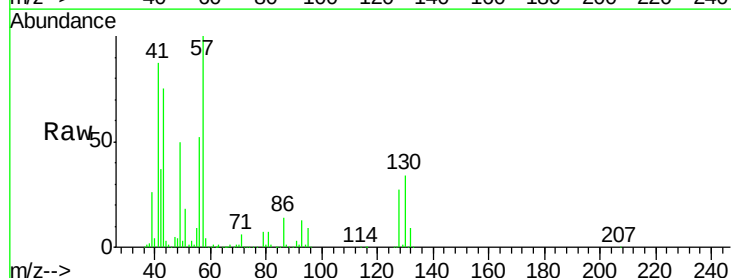
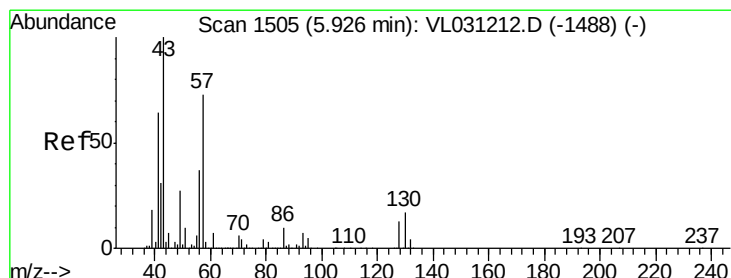
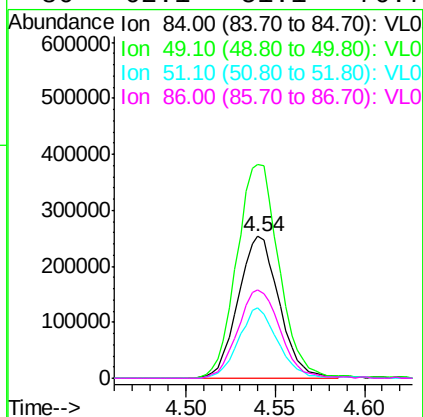
#20
Methvlene Chloride
Concen: 6.13 ppbv
RT: 4.54 min Scan# 1074
Delta R.T. 0.00 min
Lab File: VL031225.D
Acq: 14 Dec 2017 10:32

Tot Ion	Ratio	Lower	Upper
84	100		
49	150.4	125.8	188.6
51	49.3	39.3	58.9
86	62.1	51.1	76.7

Instrument :
MSVOA_L
ClientSampled :
SSV-3A

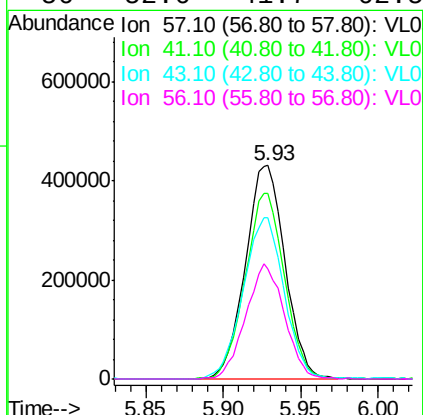
Manual Integrations
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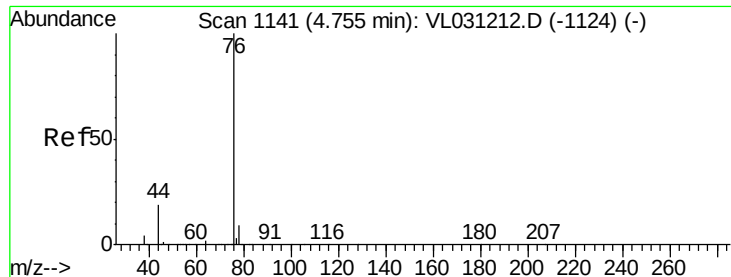
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#26
Hexane
Concen: 3.95 ppbv
RT: 5.93 min Scan# 1506
Delta R.T. 0.00 min
Lab File: VL031225.D
Acq: 14 Dec 2017 10:32

Tgt Ion	Ratio	Lower	Upper
57	100		
41	86.5	70.3	105.5
43	78.5	173.8	260.8#
56	52.6	41.7	62.5





#27

Carbon Disulfide

Concen: 0.18 ppbv

RT: 4.76 min Scan# 1142

Delta R.T. 0.00 min

Lab File: VL031225.D

Acq: 14 Dec 2017 10:32

Instrument :

MSVOA_L

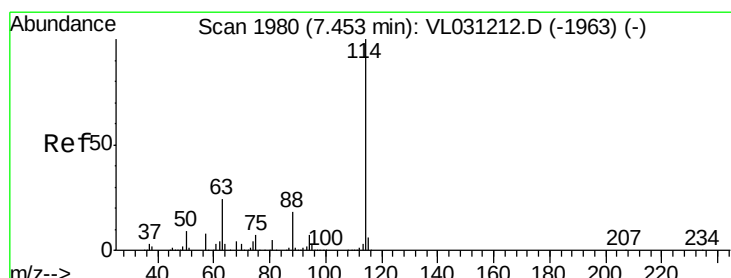
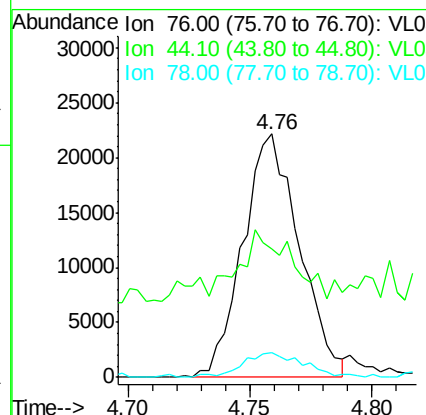
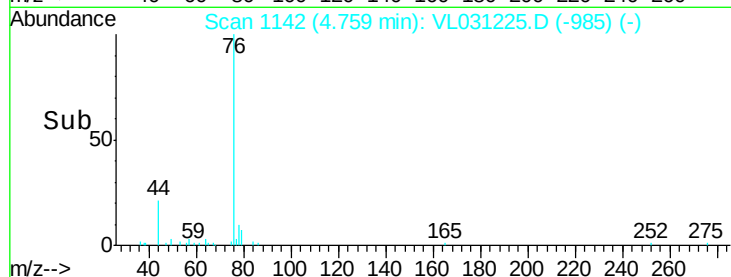
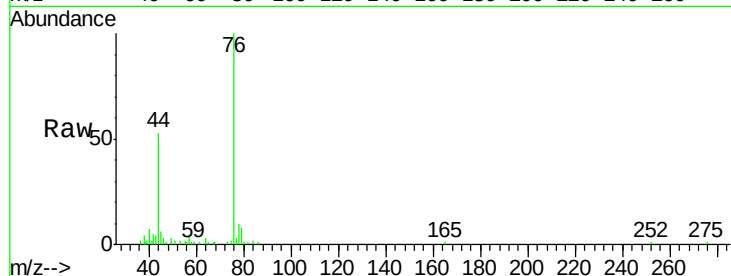
ClientSampleId :

SSV-3A

Tot Ion:	76	Resp:	35504
Ion	Ratio	Lower	Upper
76	100		
44	55.8	16.0	24.0#
78	11.2	7.5	11.3

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#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

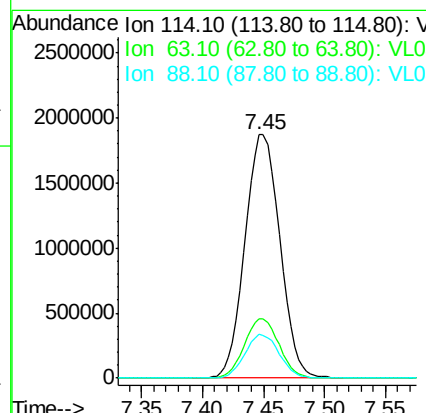
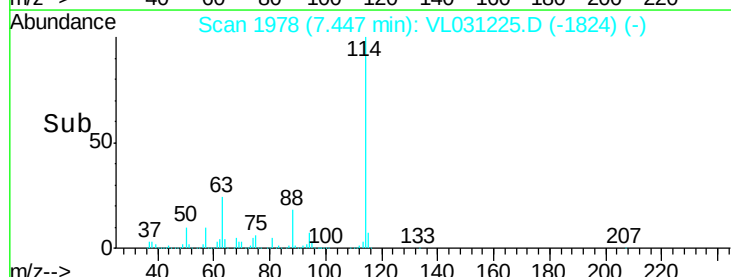
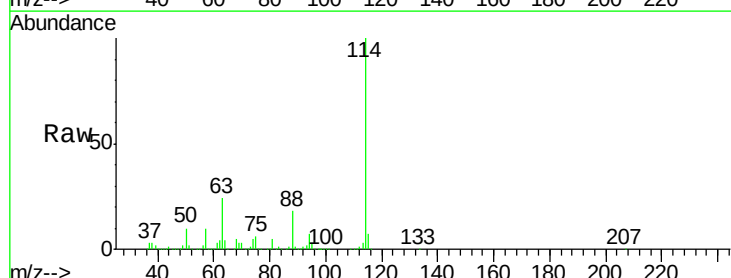
RT: 7.45 min Scan# 1978

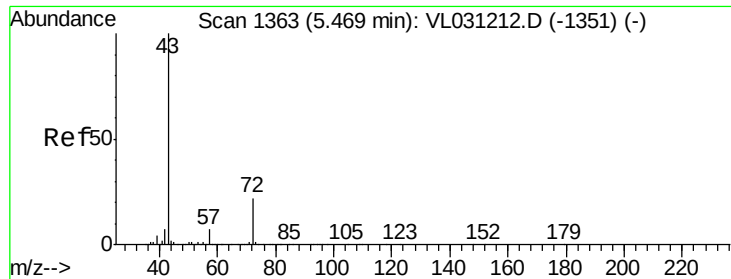
Delta R.T. -0.01 min

Lab File: VL031225.D

Acq: 14 Dec 2017 10:32

Tgt Ion:	114	Resp:	3702618
Ion	Ratio	Lower	Upper
114	100		
63	24.1	19.8	29.8
88	17.7	14.2	21.4





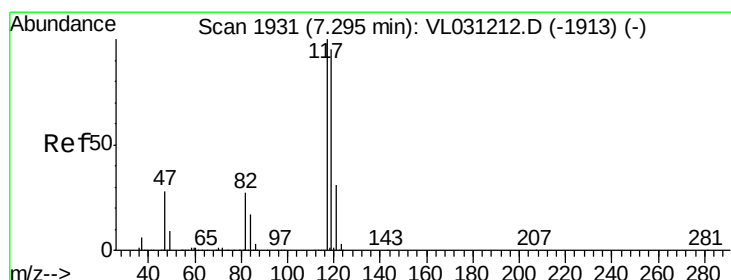
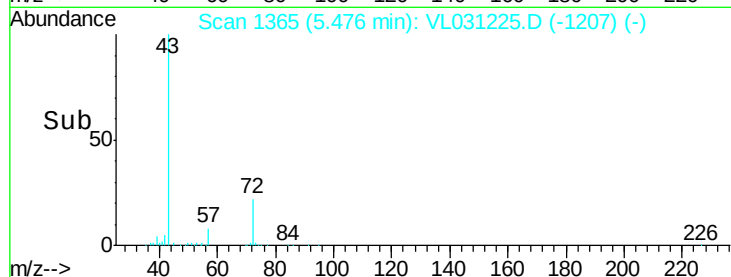
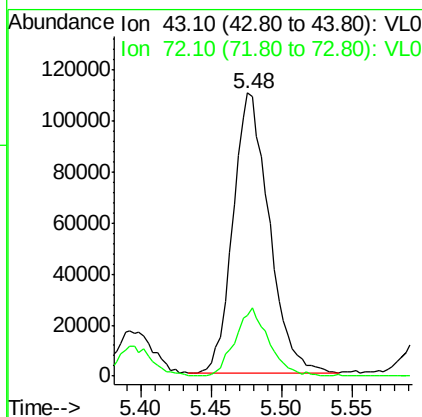
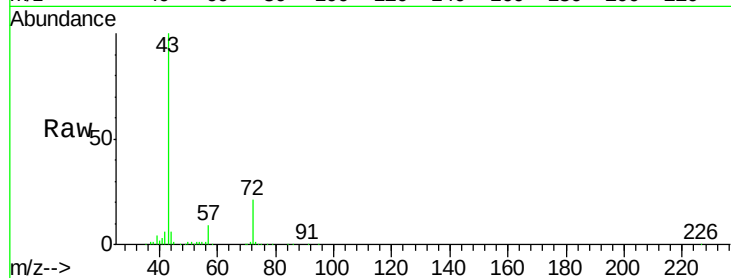
#34
2-Butanone
Concen: 0.76 ppbv
RT: 5.48 min Scan# 1365
Delta R.T. 0.01 min
Lab File: VL031225.D
Acq: 14 Dec 2017 10:32

Instrument :
MSVOA_L
ClientSampleId :
SSV-3A

Tot Ion	43	Resp	198053
Ion Ratio	Lower	Upper	
43	100		
72	23.2	18.1	27.1

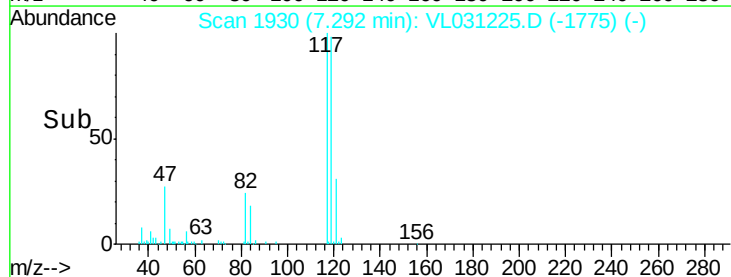
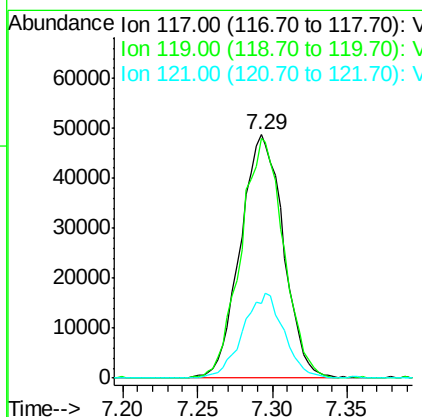
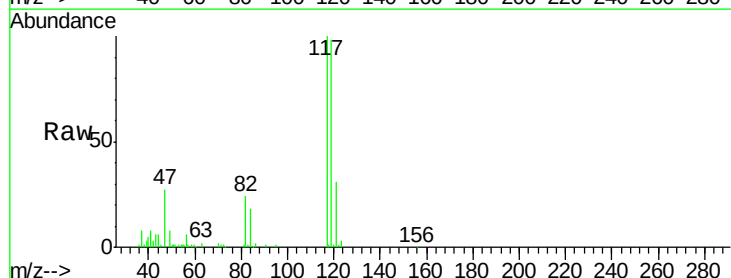
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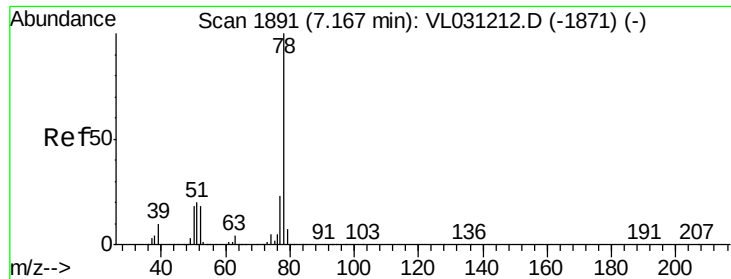
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#35
Carbon Tetrachloride
Concen: 0.37 ppbv
RT: 7.29 min Scan# 1930
Delta R.T. -0.00 min
Lab File: VL031225.D
Acq: 14 Dec 2017 10:32

Tgt Ion	117	Resp	97489
Ion Ratio	Lower	Upper	
117	100		
119	98.3	75.9	113.9
121	30.5	24.6	37.0





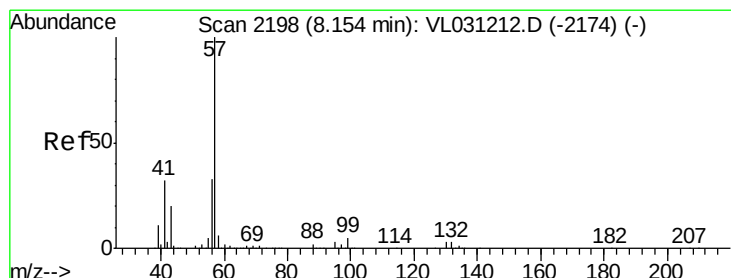
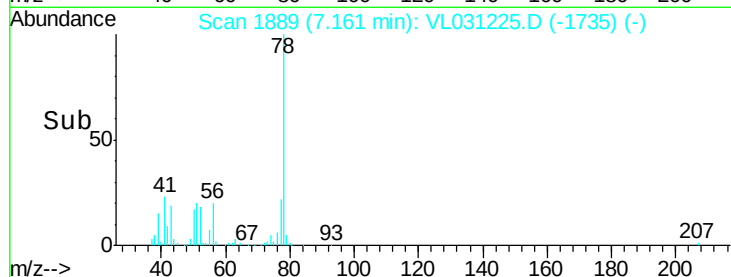
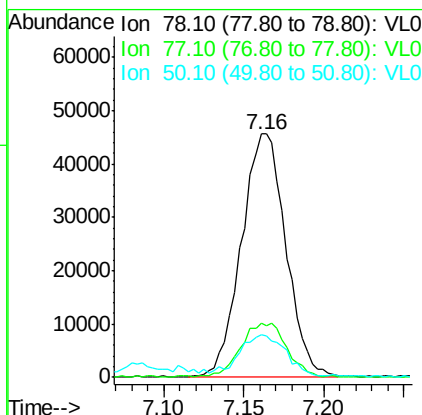
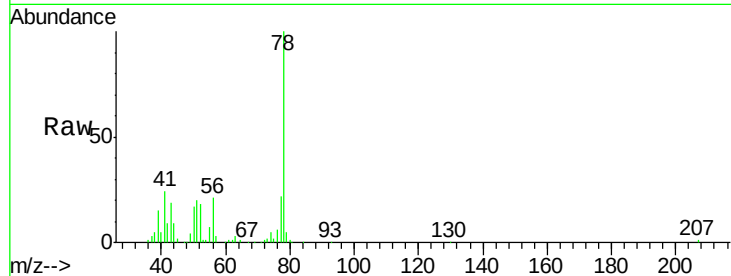
#36
Benzene
Concen: 0.22 ppbv
RT: 7.16 min Scan# 1889
Delta R.T. -0.01 min
Lab File: VL031225.D
Acq: 14 Dec 2017 10:32

Instrument :
MSVOA_L
ClientSampled :
SSV-3A

Tot Ion	Ratio	Lower	Upper
78	100		
77	21.7	18.1	27.1
50	17.0	14.6	21.8

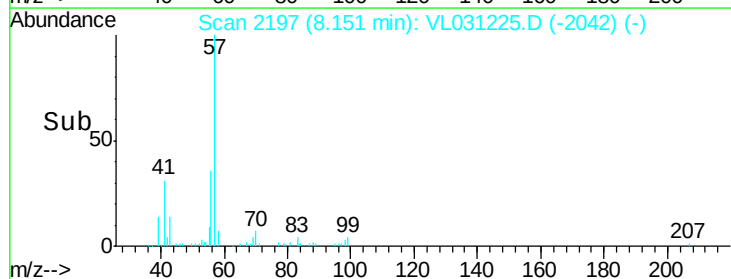
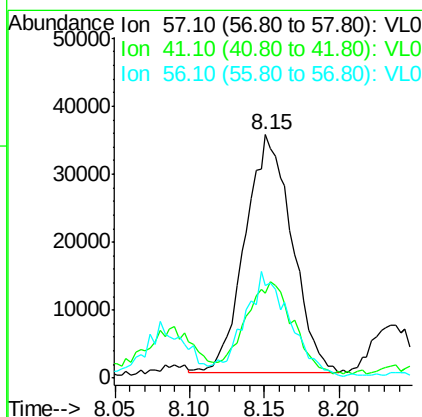
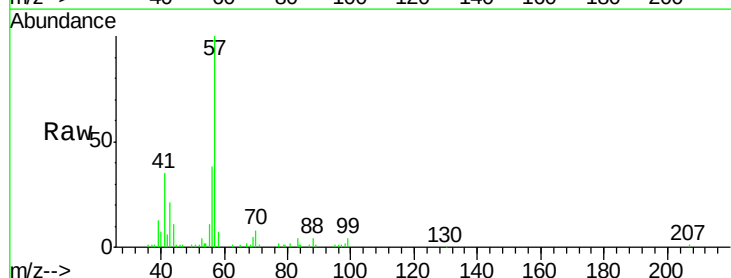
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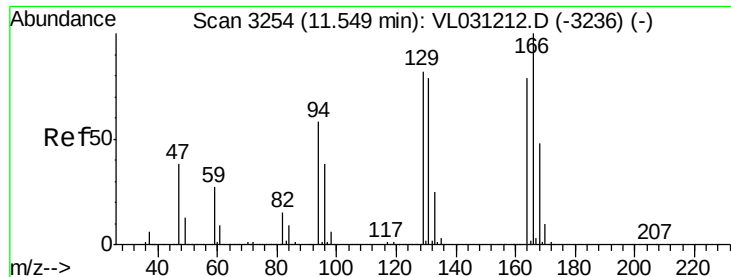
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#44
2,2,4-Trimethylpentane
Concen: 0.13 ppbv
RT: 8.15 min Scan# 2197
Delta R.T. -0.00 min
Lab File: VL031225.D
Acq: 14 Dec 2017 10:32

Tgt Ion	Ratio	Lower	Upper
57	100		
41	39.4	25.5	38.3#
56	41.3	25.0	37.6#





#52

Tetrachloroethene

Concen: 0.74 ppbv m

RT: 11.54 min Scan# 3252

Delta R.T. -0.01 min

Lab File: VL031225.D

Acq: 14 Dec 2017 10:32

Instrument :

MSVOA_L

ClientSampleId :

SSV-3A

Tot Ion:164 Resp: 107127

Ion Ratio Lower Upper

164 100

166 115.9 100.6 151.0

129 106.8 82.9 124.3

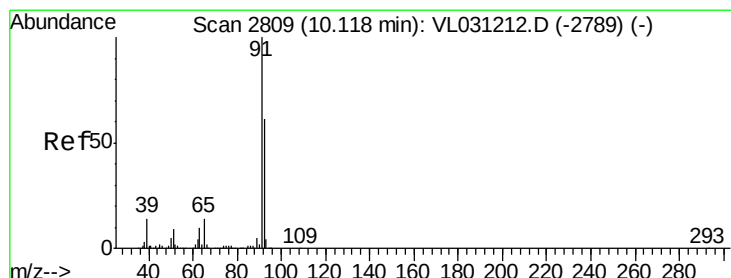
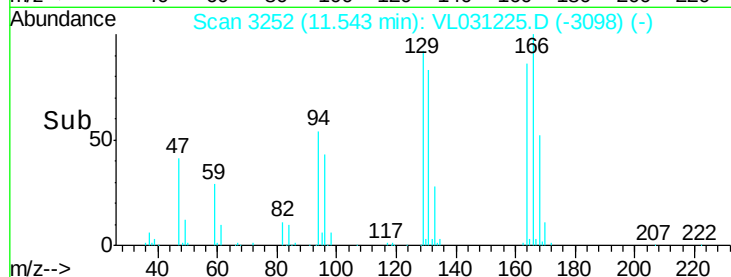
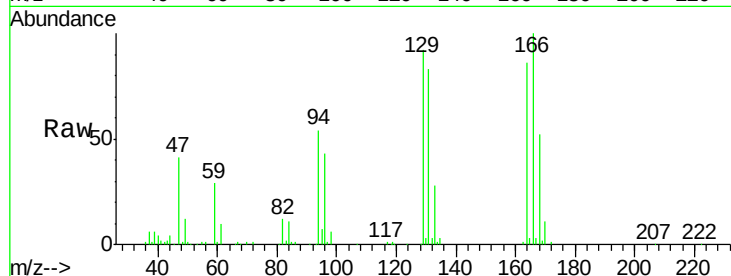
131 96.5 79.2 118.8

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#53

Toluene

Concen: 1.53 ppbv

RT: 10.11 min Scan# 2807

Delta R.T. -0.01 min

Lab File: VL031225.D

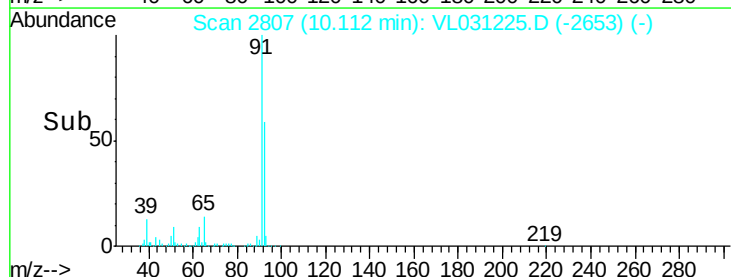
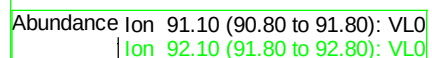
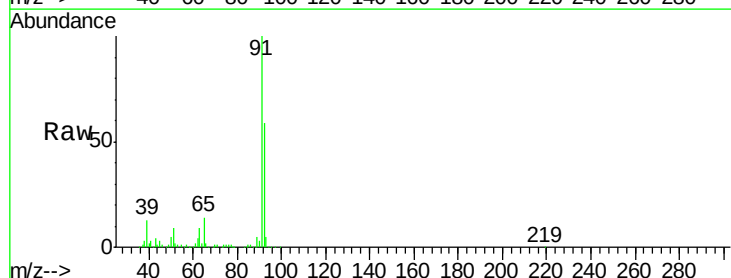
Acq: 14 Dec 2017 10:32

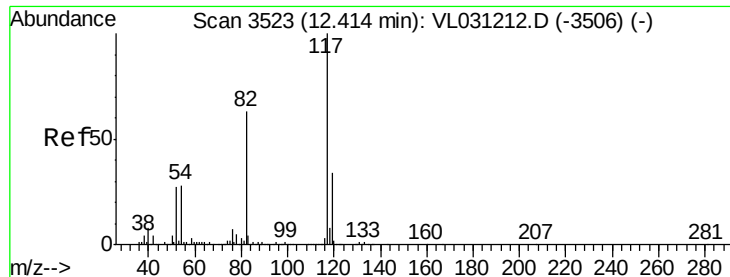
Tgt Ion: 91 Resp: 651499

Ion Ratio Lower Upper

91 100

92 60.2 49.1 73.7





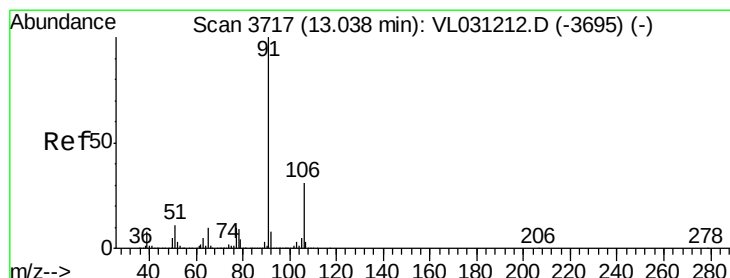
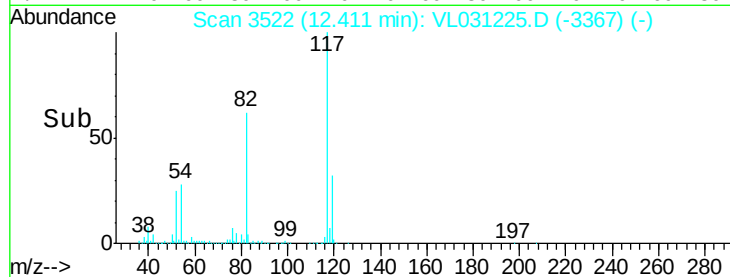
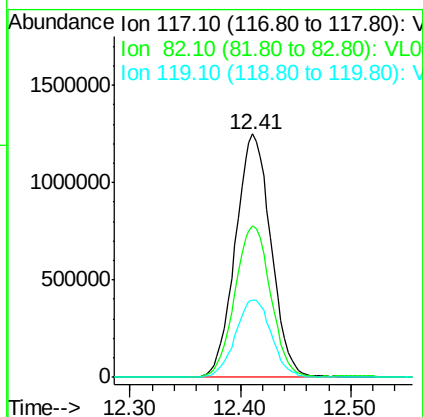
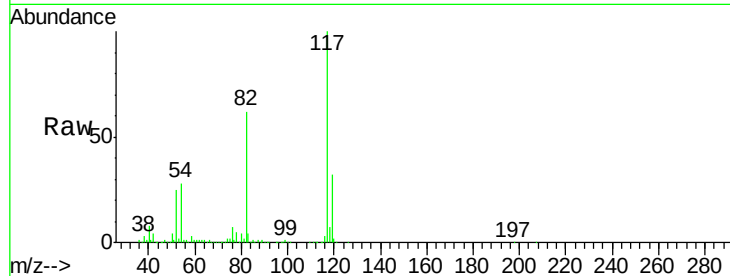
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.41 min Scan# 3522
Delta R.T. -0.00 min
Lab File: VL031225.D
Acq: 14 Dec 2017 10:32

Instrument :
MSVOA_L
ClientSampleId :
SSV-3A

Tot Ion	Ratio	Lower	Upper
117	100		
82	62.8	48.1	72.1
119	32.4	23.1	34.7

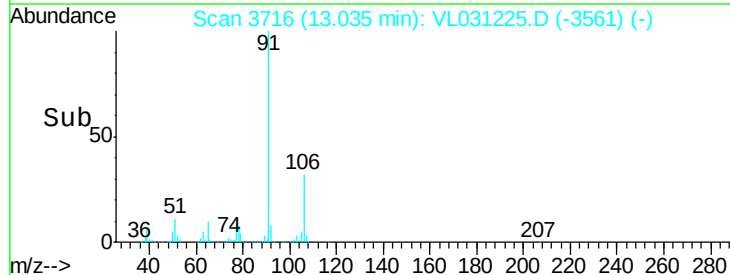
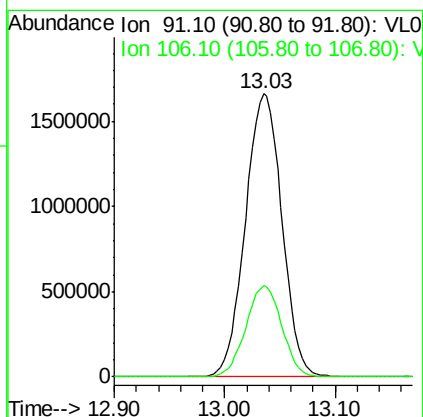
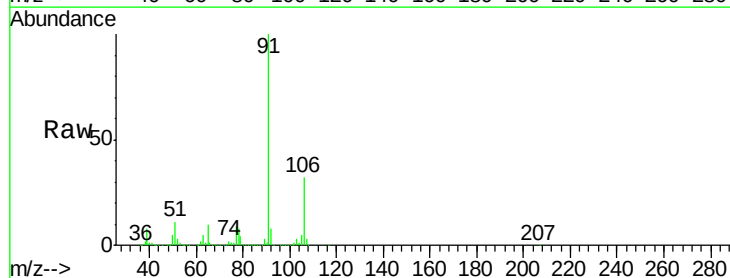
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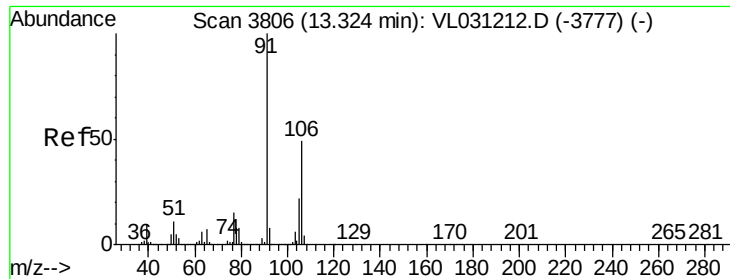
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#58
Ethyl Benzene
Concen: 8.28 ppbv
RT: 13.03 min Scan# 3716
Delta R.T. -0.00 min
Lab File: VL031225.D
Acq: 14 Dec 2017 10:32

Tgt Ion	Ratio	Lower	Upper
91	100		
106	32.4	25.1	37.7





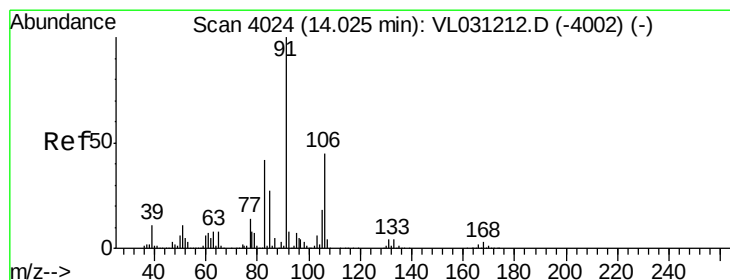
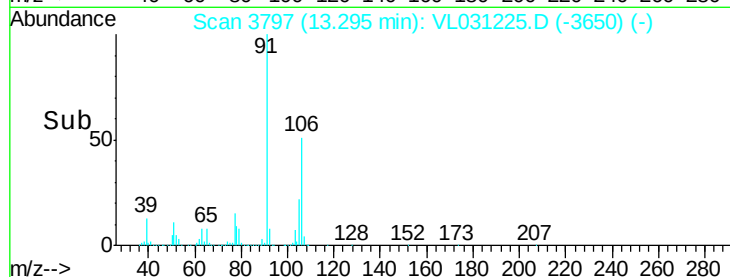
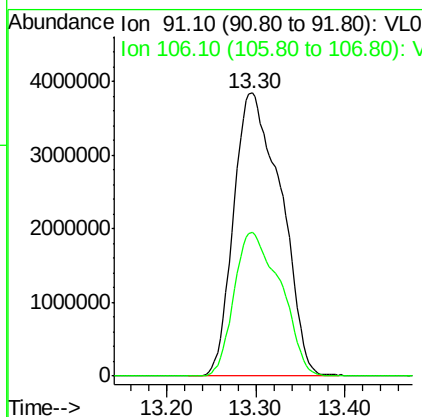
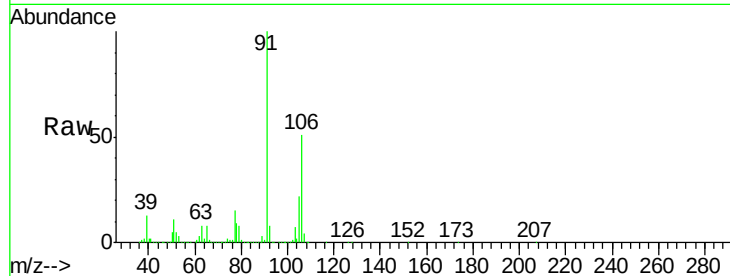
#59
m/p-Xylene
Concen: 38.40 ppbv
RT: 13.30 min Scan# 3797
Delta R.T. -0.03 min
Lab File: VL031225.D
Acq: 14 Dec 2017 10:32

Instrument :
MSVOA_L
ClientSampled :
SSV-3A

Tot Ion: 91 Resp:14157775
Ion Ratio Lower Upper
91 100
106 50.1 38.5 57.7

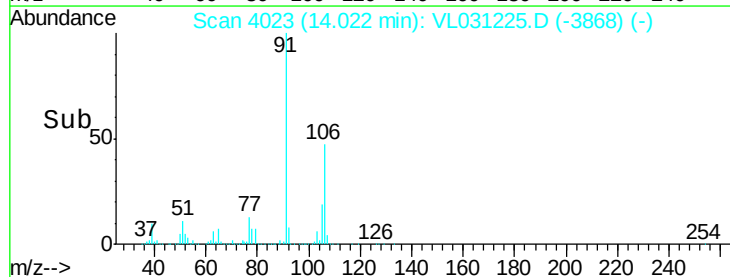
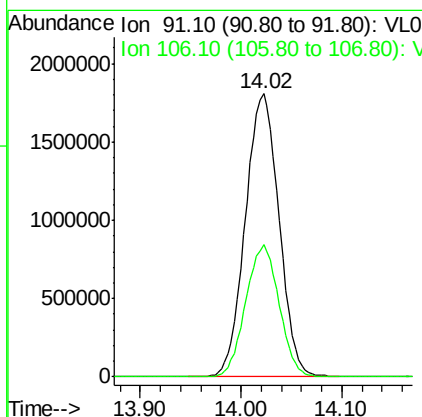
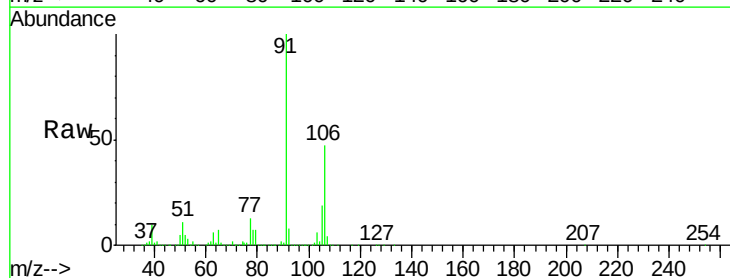
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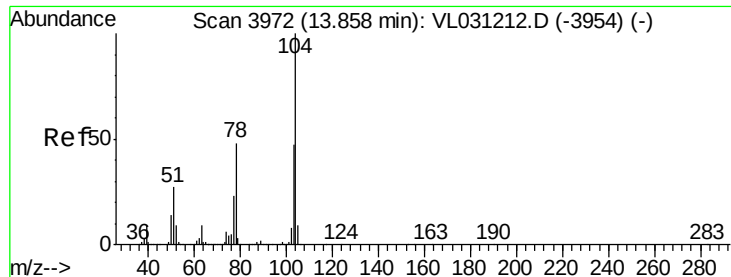
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#60
o-Xylene
Concen: 11.23 ppbv
RT: 14.02 min Scan# 4023
Delta R.T. -0.00 min
Lab File: VL031225.D
Acq: 14 Dec 2017 10:32

Tgt Ion: 91 Resp: 4174667
Ion Ratio Lower Upper
91 100
106 46.3 22.7 68.1





#61

Stvrene

Concen: 0.25 ppbv m

RT: 13.85 min Scan# 3971

Delta R.T. -0.00 min

Lab File: VL031225.D

Acq: 14 Dec 2017 10:32

Instrument :

MSVOA_L

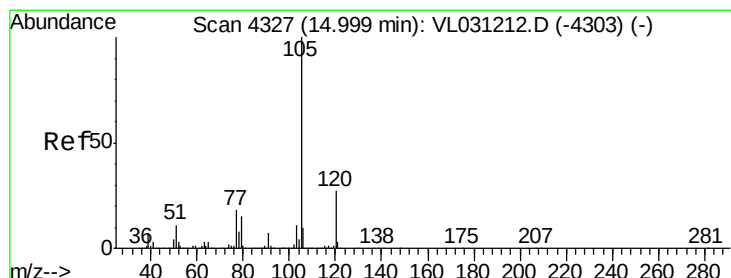
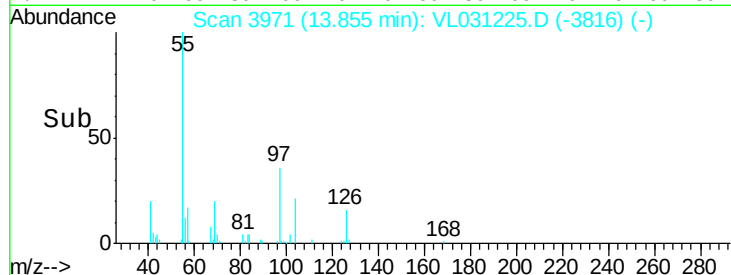
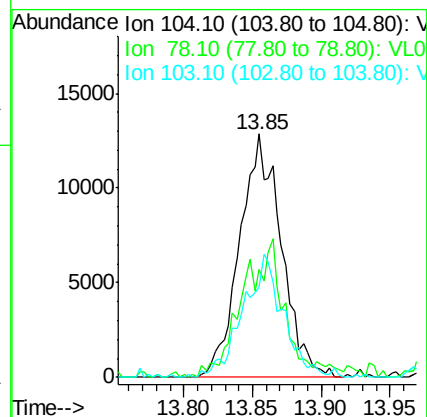
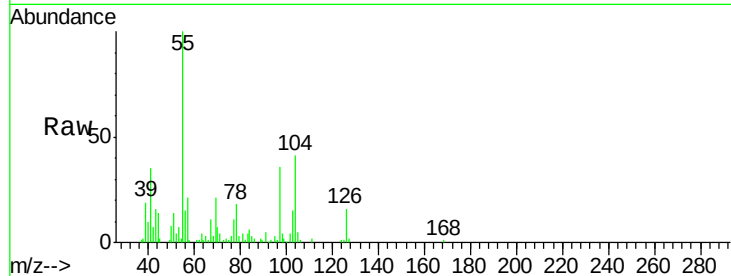
ClientSampleId :

SSV-3A

Tot Ion:	104	Resp:	26937
Ion Ratio	Lower	Upper	
104	100		
78	0.0	39.1	58.7#
103	49.0	37.3	55.9

Manual Integrations
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#62

Isopropylbenzene

Concen: 0.17 ppbv

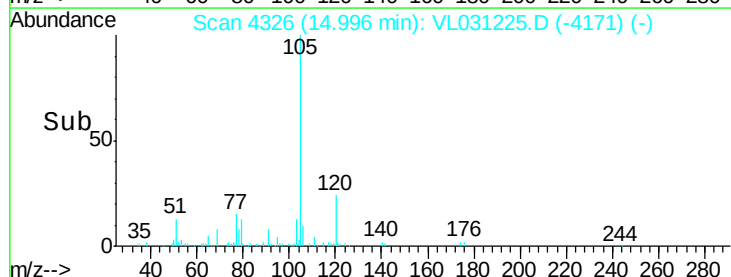
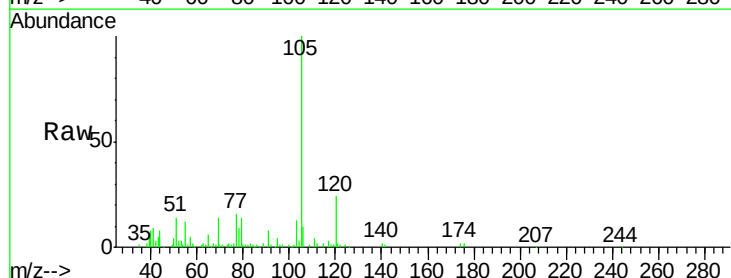
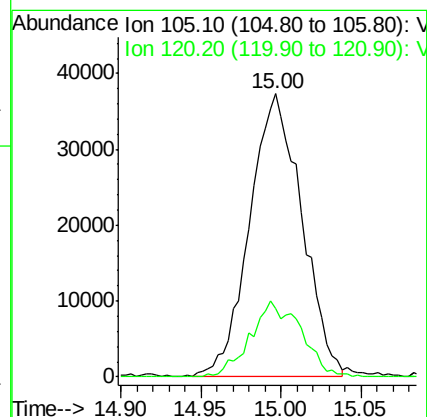
RT: 15.00 min Scan# 4326

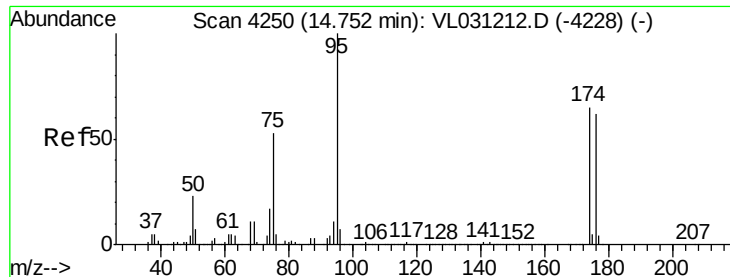
Delta R.T. -0.00 min

Lab File: VL031225.D

Acq: 14 Dec 2017 10:32

Tgt Ion:	105	Resp:	83738
Ion Ratio	Lower	Upper	
105	100		
120	26.1	21.0	31.6





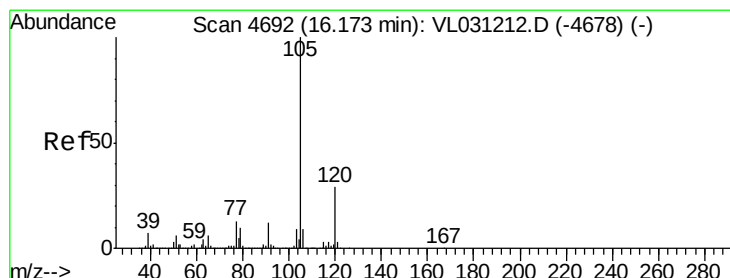
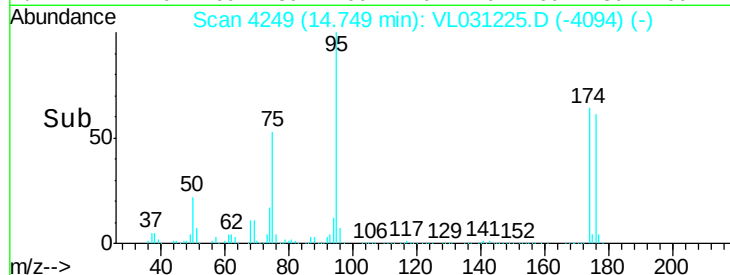
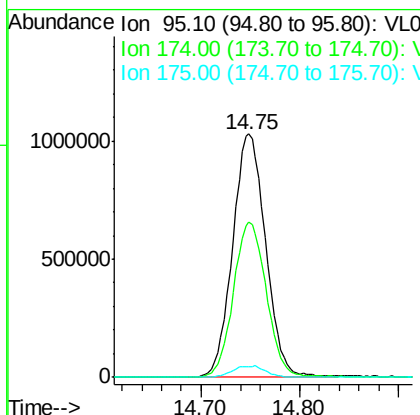
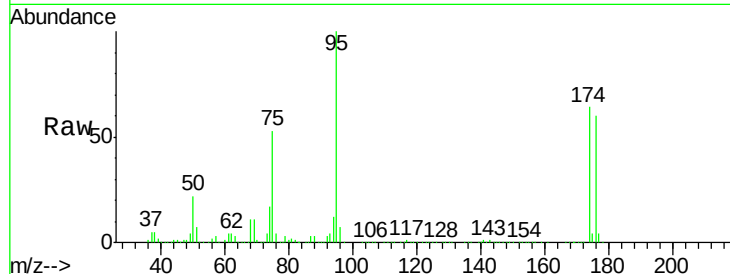
#68
 1-Bromo-4-Fluorobenzene
 Concen: 12.08 ppbv
 RT: 14.75 min Scan# 4249
 Delta R.T. -0.00 min
 Lab File: VL031225.D
 Acq: 14 Dec 2017 10:32

Instrument :
 MSVOA_L
 ClientSampled :
 SSV-3A

Tot Ion: 95 Resp: 2397365
 Ion Ratio Lower Upper
 95 100
 174 64.2 52.5 78.7
 175 4.8 4.1 6.1

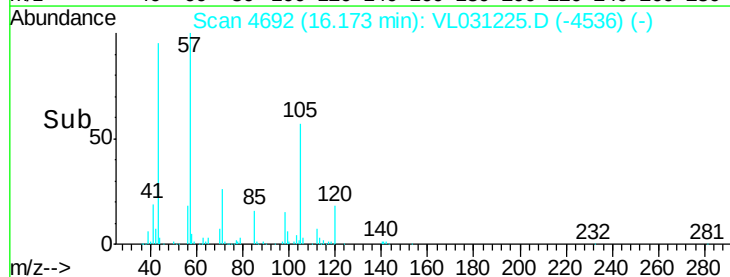
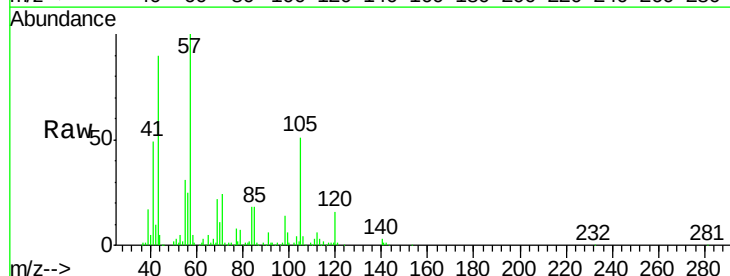
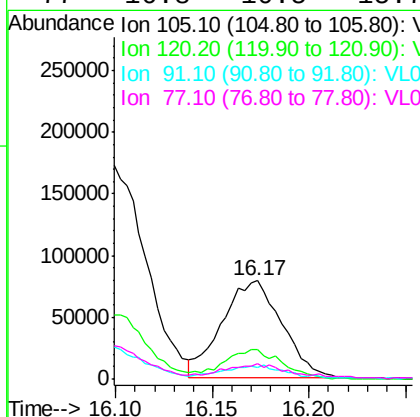
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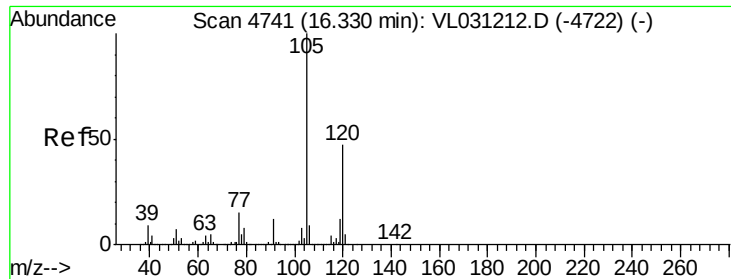
MMDadoda
 12/15/2017 4:07:04 PM



#72
 4-Ethyltoluene
 Concen: 0.42 ppbv
 RT: 16.17 min Scan# 4692
 Delta R.T. 0.00 min
 Lab File: VL031225.D
 Acq: 14 Dec 2017 10:32

Tgt Ion: 105 Resp: 169003
 Ion Ratio Lower Upper
 105 100
 120 29.6 24.2 36.2
 91 13.6 9.8 14.8
 77 16.8 10.5 15.7#





#73

1,3,5-Trimethylbenzene

Concen: 0.51 ppbv

RT: 16.33 min Scan# 4740

Delta R.T. -0.00 min

Lab File: VL031225.D

Acq: 14 Dec 2017 10:32

Instrument :

MSVOA_L

ClientSampleId :

SSV-3A

Tot Ion:105 Resp: 184414

Ion Ratio Lower Upper

105 100

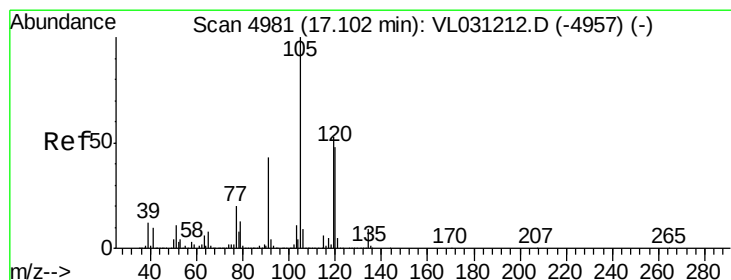
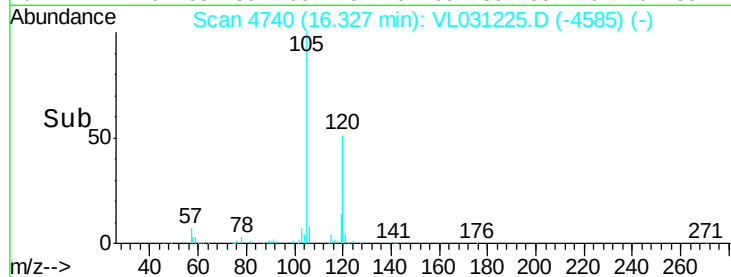
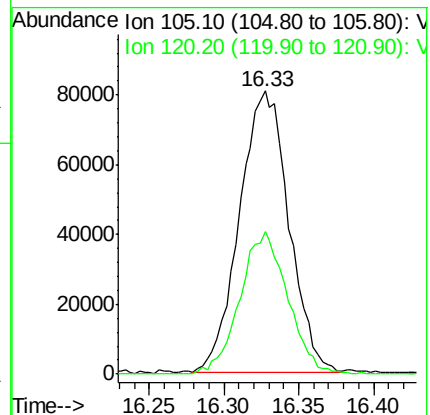
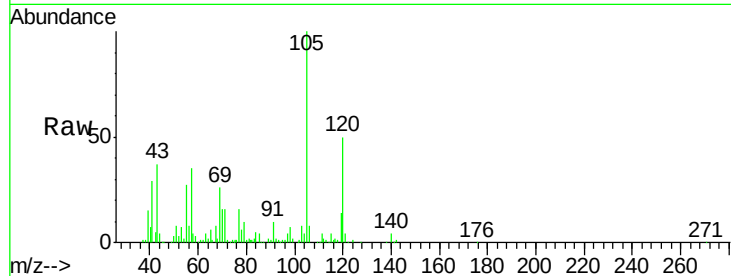
120 50.7 37.8 56.6

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#74

1,2,4-Trimethylbenzene

Concen: 1.39 ppbv

RT: 17.10 min Scan# 4979

Delta R.T. -0.01 min

Lab File: VL031225.D

Acq: 14 Dec 2017 10:32

Tgt Ion:105 Resp: 530788

Ion Ratio Lower Upper

105 100

120 43.7 38.6 58.0

91 10.1 34.2 51.4#

77 14.0 16.1 24.1#

