

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL121317\
 Data File : VL031227.D
 Acq On : 14 Dec 2017 11:52
 Operator : SY/AP
 Sample : I6808-01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AIR-UNIT-3

Manual Integrations
 APPROVED

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 12/15/2017 4:07:07 PM

Quant Time: Dec 15 06:23:22 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	1420306	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.45	114	3336669	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.41	117	2688372	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.75	95	2407394	12.59	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	125.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.18	85	78356	0.65	ppbv	97
3) Chlorodifluoromethane	3.12	51	168325m	1.04	ppbv	
4) Chloromethane	3.28	50	44567	0.51	ppbv #	84
9) Propene	3.15	41	64462m	0.81	ppbv	
11) Trichlorofluoromethane	4.13	101	51998	0.26	ppbv	96
13) Ethanol	3.77	45	307095	13.43	ppbv	98
15) Acetone	4.03	43	974202	5.20	ppbv	99
19) Isopropyl Alcohol	4.16	45	163218	1.38	ppbv #	1
20) Methylene Chloride	4.54	84	81044	1.31	ppbv	98
26) Hexane	5.93	57	513209	2.83	ppbv #	45
34) 2-Butanone	5.49	43	47337	0.20	ppbv	95
35) Carbon Tetrachloride	7.30	117	16384m	0.07	ppbv	
36) Benzene	7.16	78	96593	0.27	ppbv	97
44) 2,2,4-Trimethylpentane	8.15	57	45081	0.08	ppbv #	79
53) Toluene	10.12	91	193801	0.51	ppbv	97
58) Ethyl Benzene	13.03	91	39780	0.09	ppbv	94
59) m/p-Xylene	13.29	91	102203m	0.29	ppbv	
60) o-Xylene	14.02	91	41219m	0.12	ppbv	
61) Styrene	13.86	104	9543m	0.09	ppbv	
73) 1,3,5-Trimethylbenzene	16.32	105	39259m	0.11	ppbv	
74) 1,2,4-Trimethylbenzene	17.09	105	94889	0.26	ppbv #	79
79) Naphthalene	22.61	128	32315m	0.11	ppbv	

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

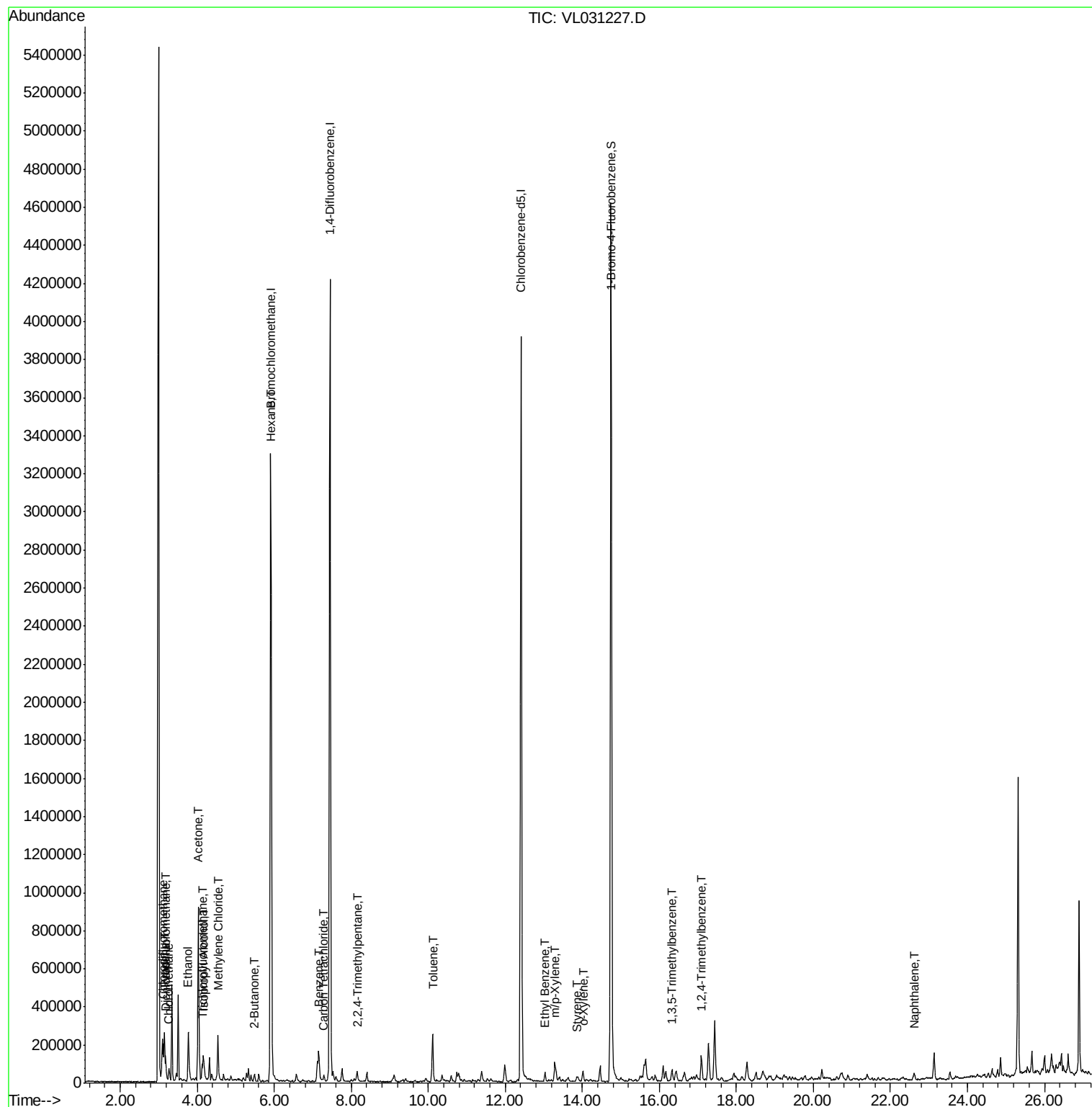
Data Path : W:\HPCHEM1\MSVOA L\DATA\VL121317\
Data File : VL031227.D
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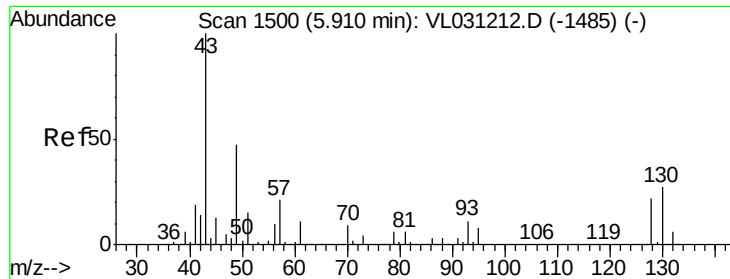
Instrument :
MSVOA_L
ClientSampleId :
AIR-UNIT-3

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Quant Time: Dec 15 06:23:22 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# 1499

Delta R.T. -0.00 min

Lab File: VL031227.D

Acq: 14 Dec 2017 11:52

Instrument :

MSVOA_L

ClientSampleId :

AIR-UNIT-3

Tot Ion: 49 Resp: 1420306

Ion Ratio Lower Upper

49 100

128 49.2 23.2 69.5

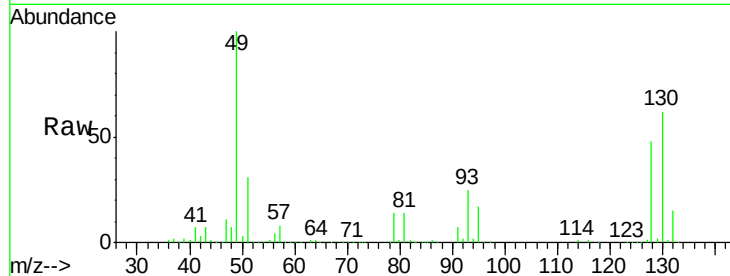
130 63.6 29.6 88.8

Manual Integrations

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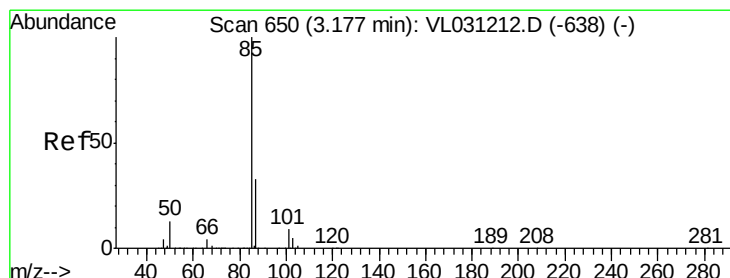
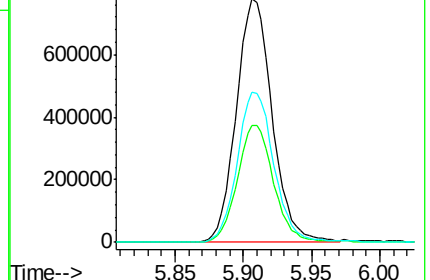
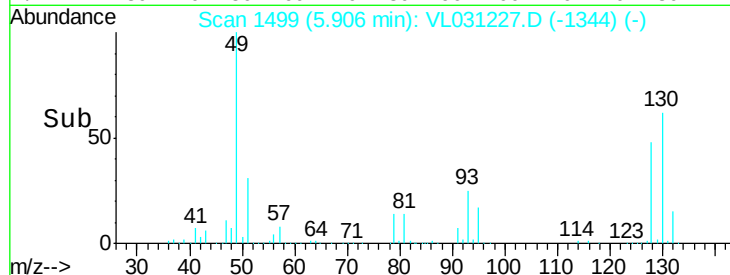
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.65 ppbv

RT: 3.18 min Scan# 651

Delta R.T. 0.00 min

Lab File: VL031227.D

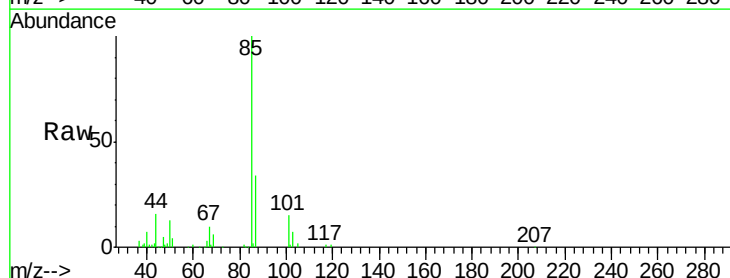
Acq: 14 Dec 2017 11:52

Tgt Ion: 85 Resp: 78356

Ion Ratio Lower Upper

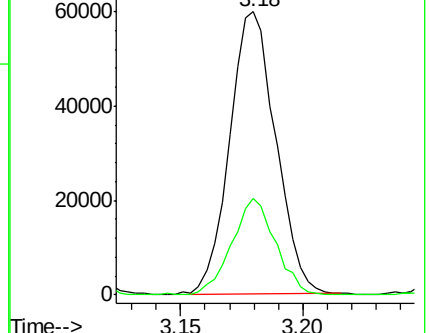
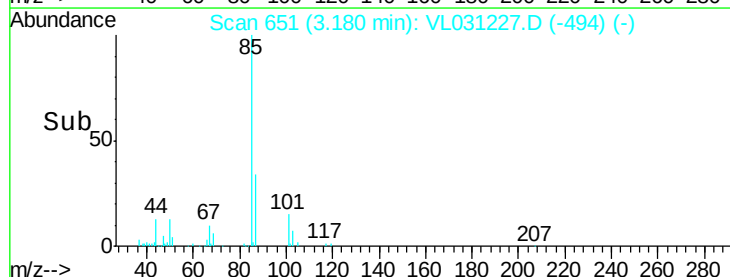
85 100

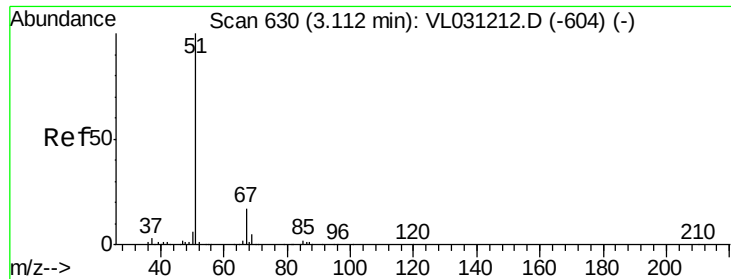
87 34.1 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.04 ppbv m

RT: 3.12 min Scan# 631

Delta R.T. 0.00 min

Lab File: VL031227.D

Acq: 14 Dec 2017 11:52

Instrument :

MSVOA_L

ClientSampleId :

AIR-UNIT-3

Tot Ion: 51 Resp: 168325

Ion Ratio Lower Upper

51 100

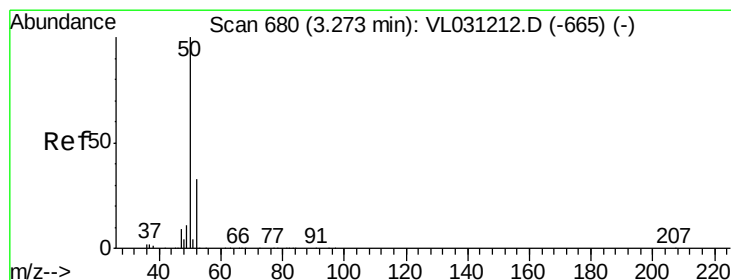
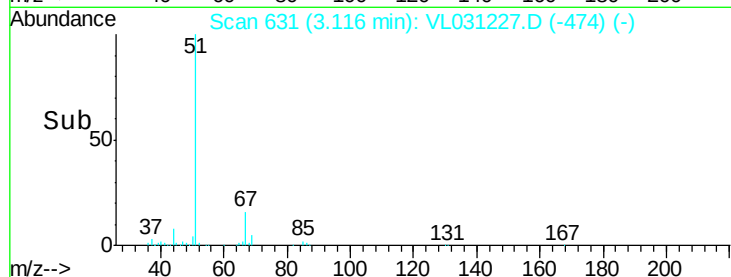
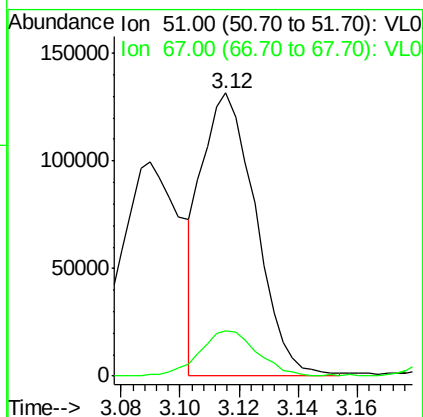
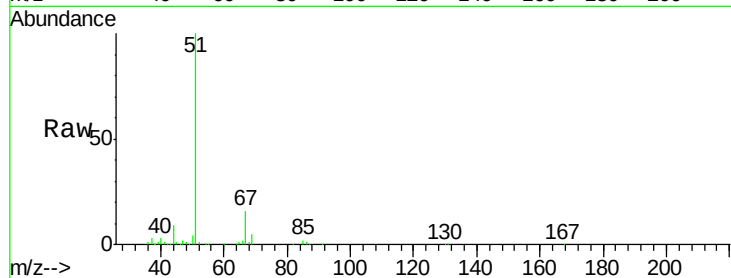
67 17.2 13.8 20.6

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#4

Chloromethane

Concen: 0.51 ppbv

RT: 3.28 min Scan# 681

Delta R.T. 0.00 min

Lab File: VL031227.D

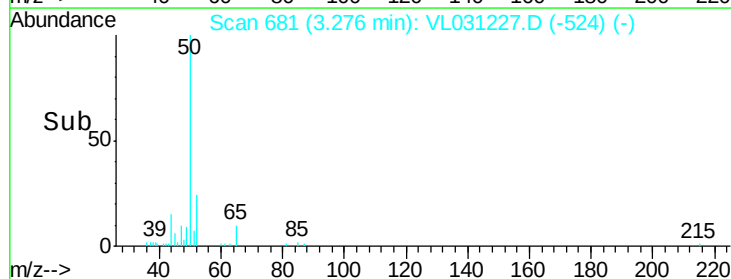
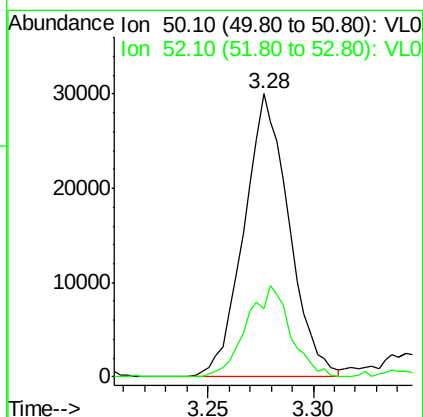
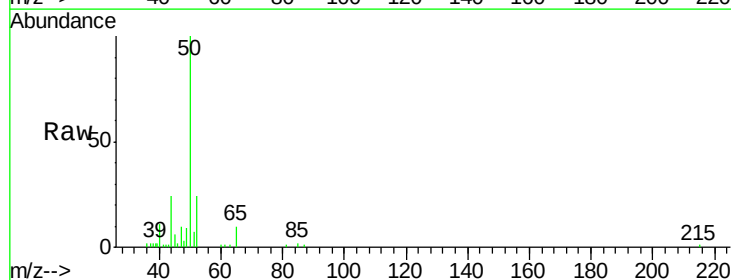
Acq: 14 Dec 2017 11:52

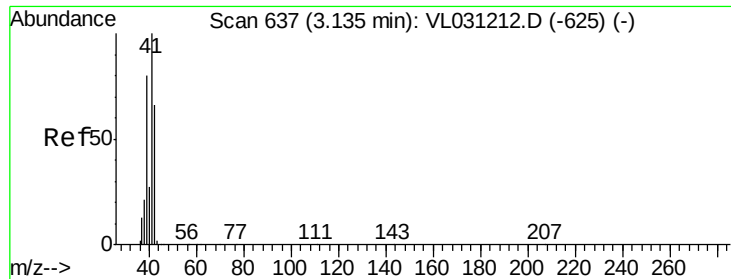
Tgt Ion: 50 Resp: 44567

Ion Ratio Lower Upper

50 100

52 24.3 26.5 39.7#





#9

Propene

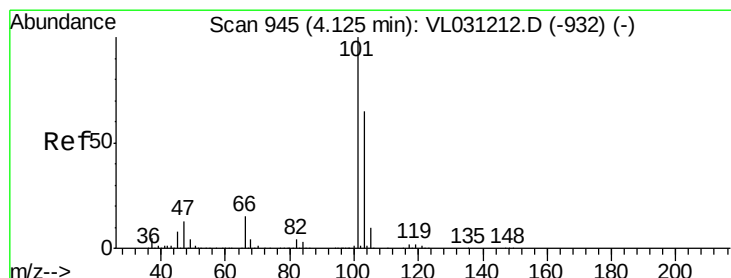
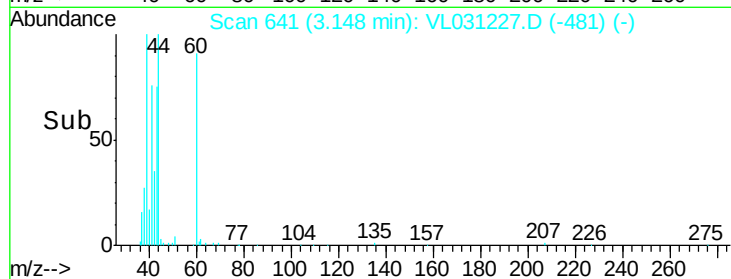
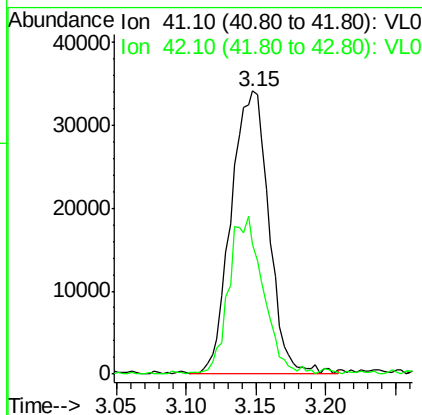
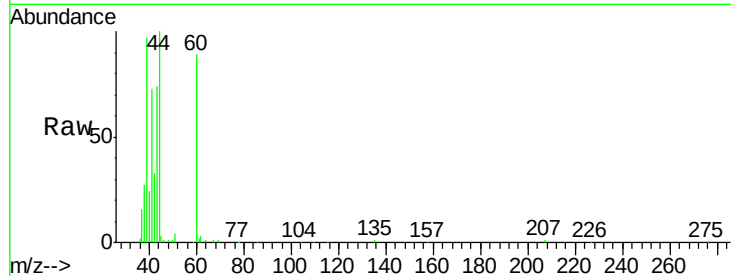
Concen: 0.81 ppbv m
RT: 3.15 min Scan# 641
Delta R.T. 0.01 min
Lab File: VL031227.D
Acq: 14 Dec 2017 11:52

Instrument :
MSVOA_L
ClientSampleId :
AIR-UNIT-3

Tot Ion	41	Resp	64462
Ion Ratio	100	Lower	Upper
42	144.8	54.3	81.5#

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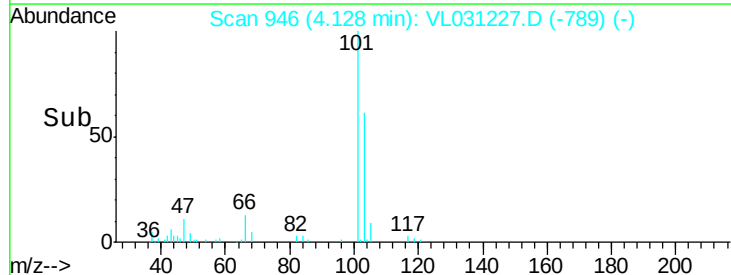
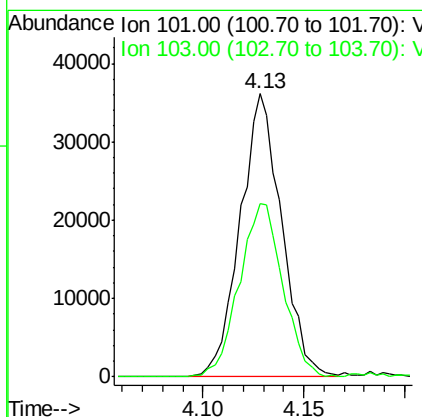
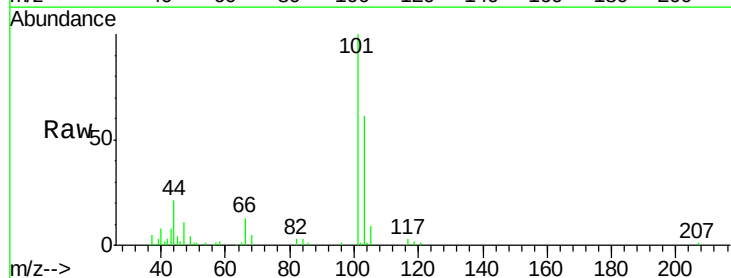


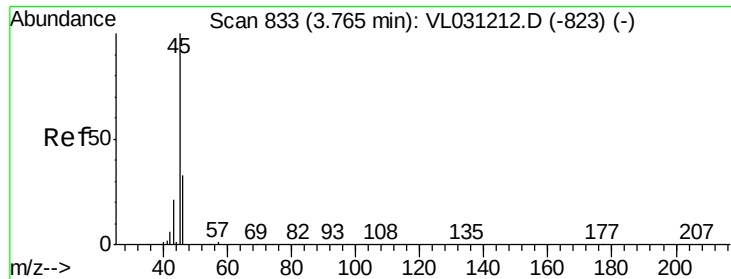
#11

Trichlorofluoromethane

Concen: 0.26 ppbv
RT: 4.13 min Scan# 946
Delta R.T. 0.00 min
Lab File: VL031227.D
Acq: 14 Dec 2017 11:52

Tgt Ion	101	Resp	51998
Ion Ratio	100	Lower	Upper
103	61.3	51.8	77.8





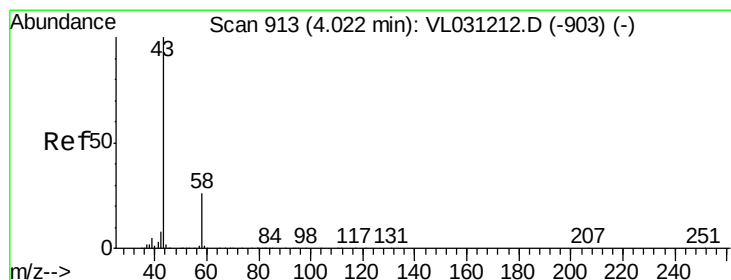
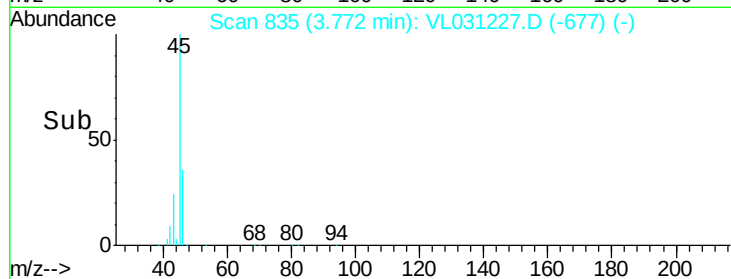
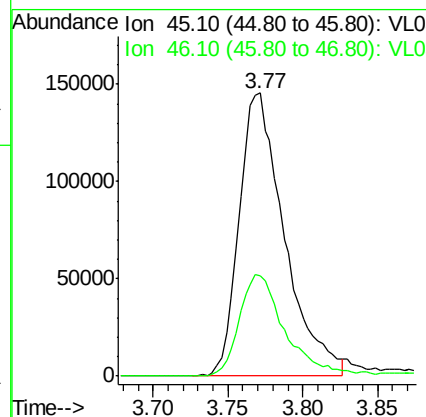
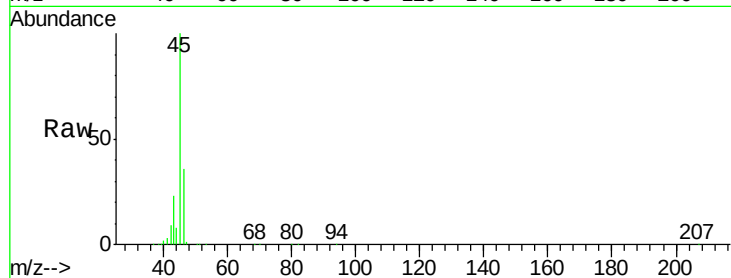
#13
Ethanol
Concen: 13.43 ppbv
RT: 3.77 min Scan# 835
Delta R.T. 0.01 min
Lab File: VL031227.D
Acq: 14 Dec 2017 11:52

Instrument :
MSVOA_L
ClientSampleId :
AIR-UNIT-3

Tot Ion	45	46	Ratio	Lower	Upper
307095	100	37.7		14.6	58.4

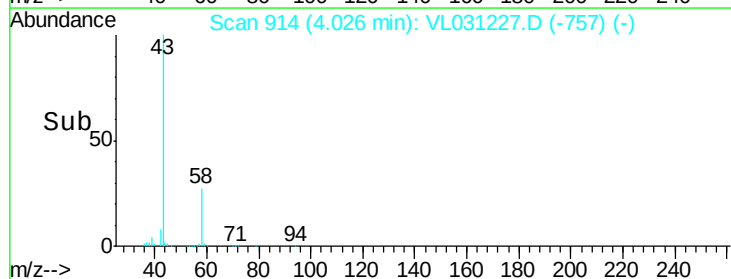
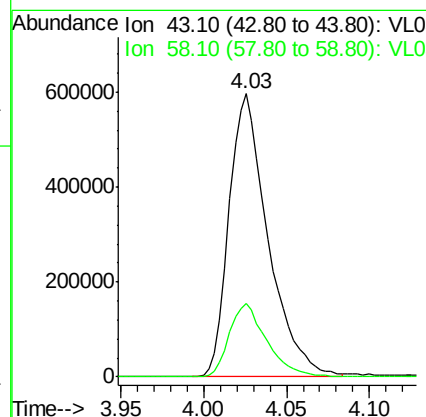
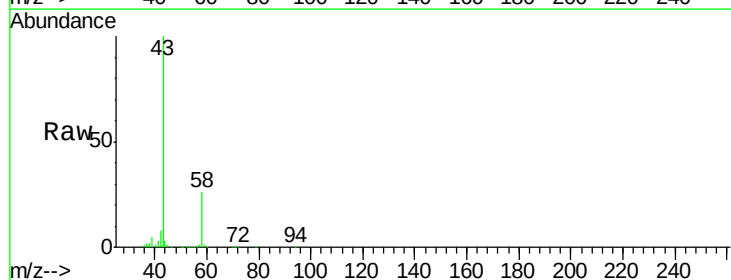
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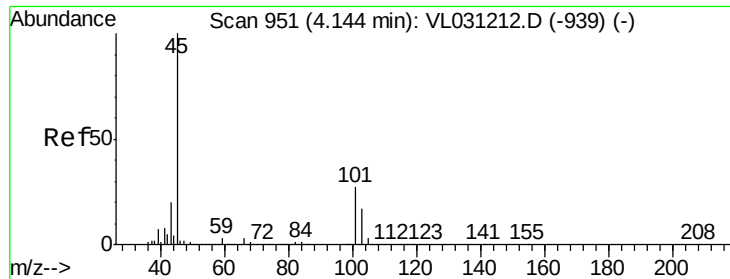
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#15
Acetone
Concen: 5.20 ppbv
RT: 4.03 min Scan# 914
Delta R.T. 0.00 min
Lab File: VL031227.D
Acq: 14 Dec 2017 11:52

Tgt Ion	43	58	Ratio	Lower	Upper
974202	100	25.0		20.3	30.5





#19

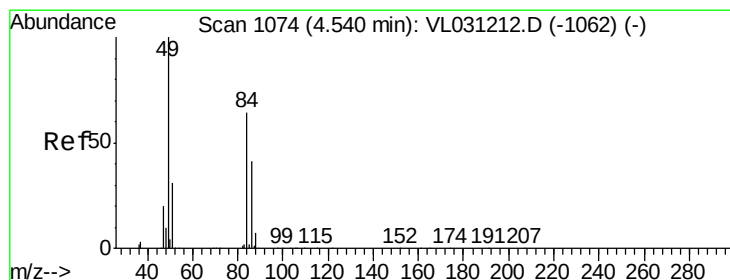
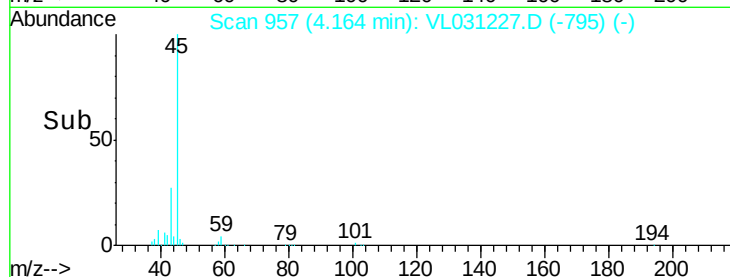
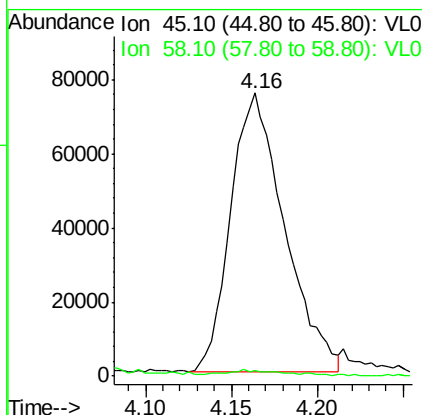
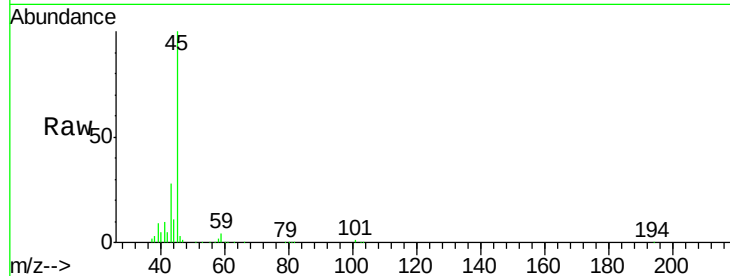
Isopropyl Alcohol
 Concen: 1.38 ppbv
 RT: 4.16 min Scan# 957
 Delta R.T. 0.02 min
 Lab File: VL031227.D
 Acq: 14 Dec 2017 11:52

Instrument :
 MSVOA_L
 ClientSampleId :
 AIR-UNIT-3

Tot Ion: 45 Resp: 163218
 Ion Ratio Lower Upper
 45 100
 58 149.5 27.2 40.8#

Manual Integrations
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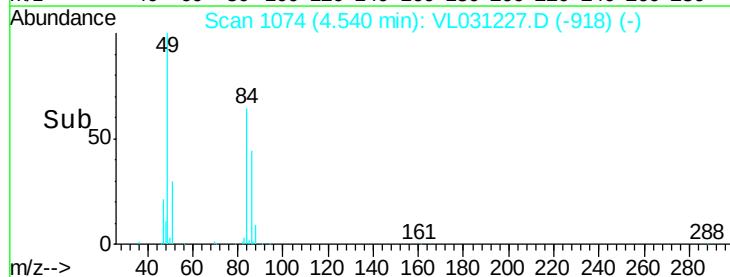
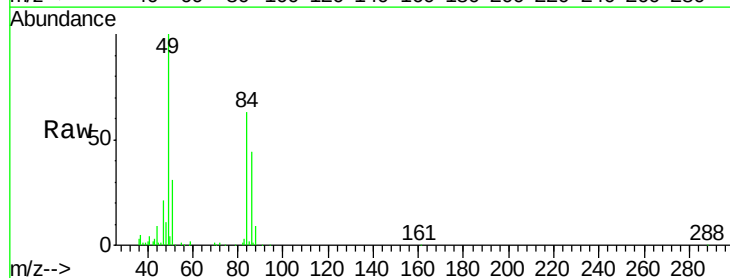
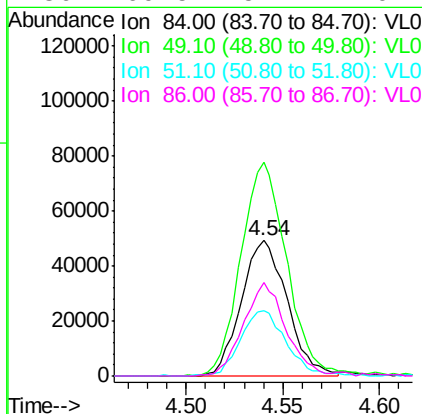
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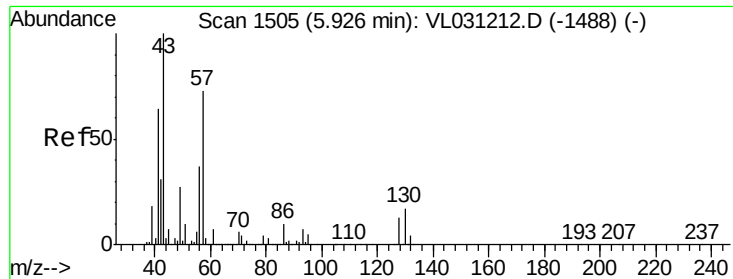


#20

Methylene Chloride
 Concen: 1.31 ppbv
 RT: 4.54 min Scan# 1074
 Delta R.T. 0.00 min
 Lab File: VL031227.D
 Acq: 14 Dec 2017 11:52

Tgt Ion: 84 Resp: 81044
 Ion Ratio Lower Upper
 84 100
 49 157.1 125.8 188.6
 51 48.0 39.3 58.9
 86 69.5 51.1 76.7





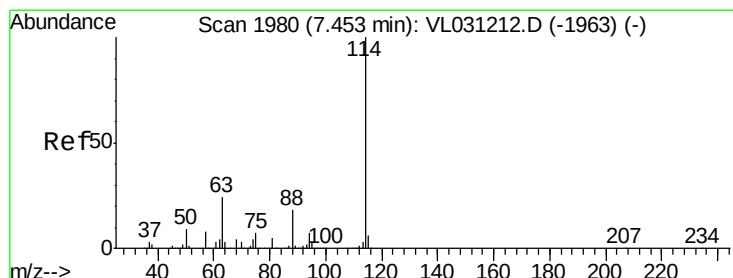
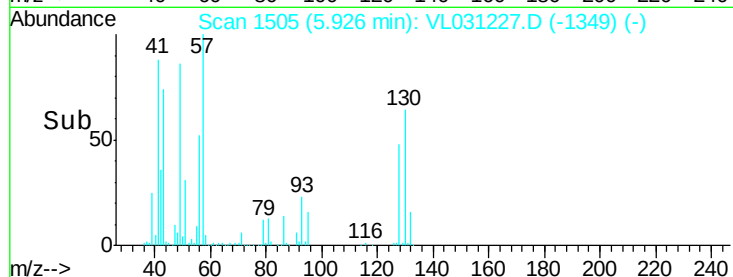
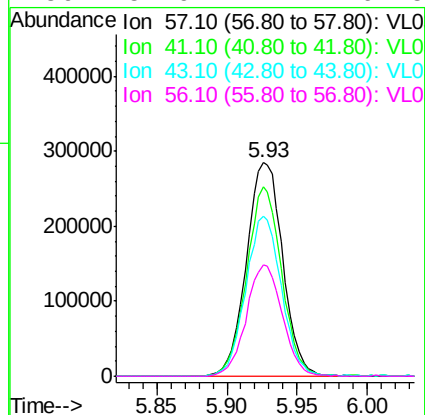
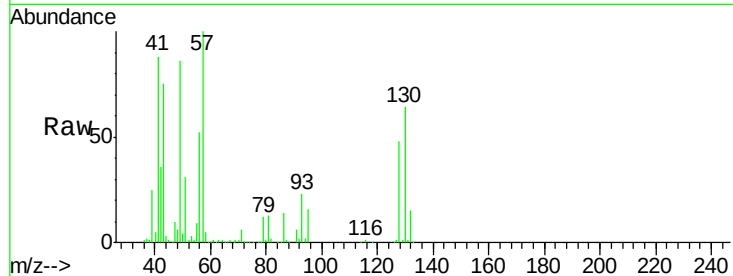
#26
Hexane
Concen: 2.83 ppbv
RT: 5.93 min Scan# 1505
Delta R.T. 0.00 min
Lab File: VL031227.D
Acq: 14 Dec 2017 11:52

Instrument :
MSVOA_L
ClientSampleId :
AIR-UNIT-3

Tot Ion	Ratio	Lower	Upper
57	100		
41	85.3	70.3	105.5
43	74.9	173.8	260.8#
56	51.9	41.7	62.5

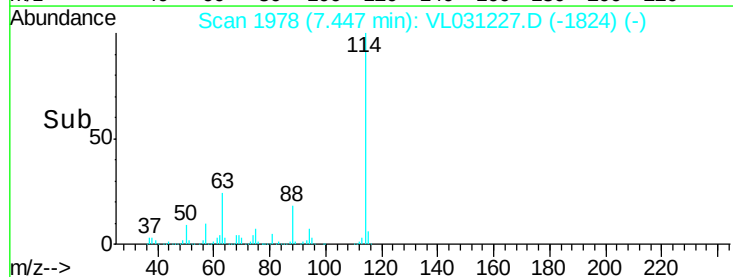
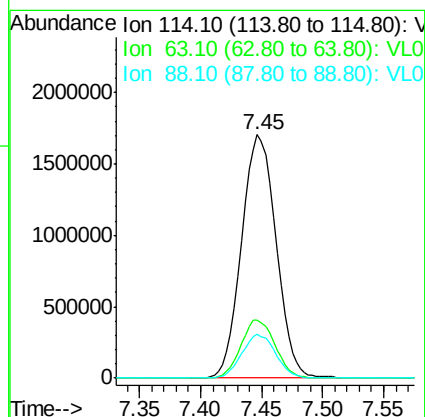
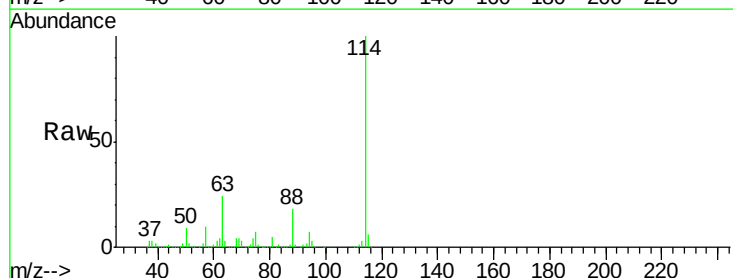
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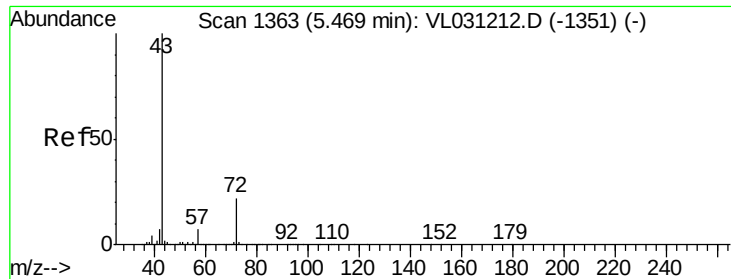
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#33
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 7.45 min Scan# 1978
Delta R.T. -0.01 min
Lab File: VL031227.D
Acq: 14 Dec 2017 11:52

Tgt Ion	Ratio	Lower	Upper
114	100		
63	23.9	19.8	29.8
88	17.6	14.2	21.4





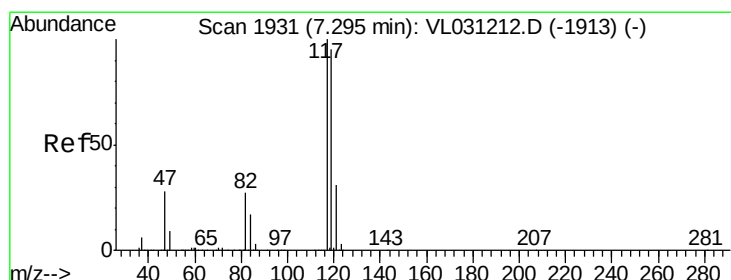
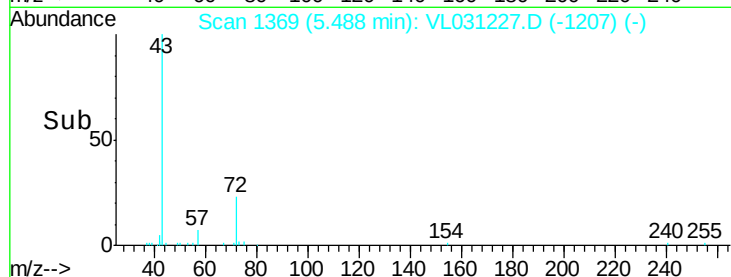
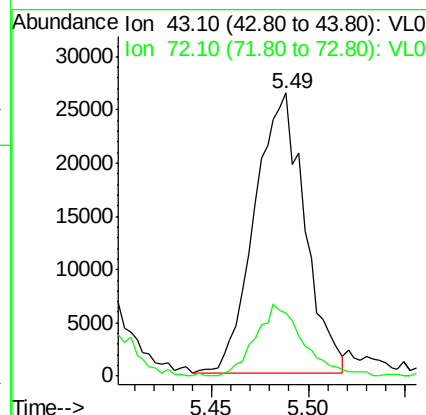
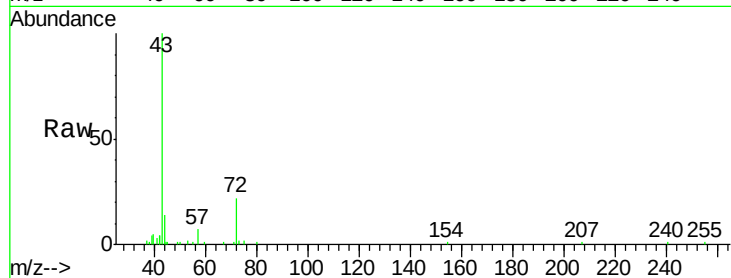
#34
2-Butanone
Concen: 0.20 ppbv
RT: 5.49 min Scan# 1369
Delta R.T. 0.02 min
Lab File: VL031227.D
Acq: 14 Dec 2017 11:52

Instrument :
MSVOA_L
ClientSampleId :
AIR-UNIT-3

Tot Ion	43.10	Resp	47337
Ion Ratio	Lower	Upper	
43	100		
72	24.9	18.1	27.1

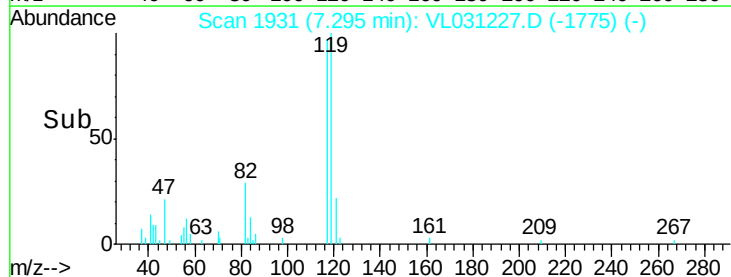
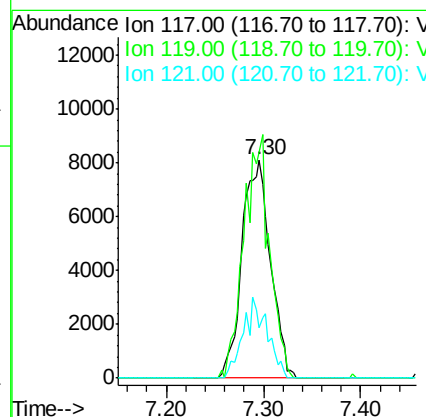
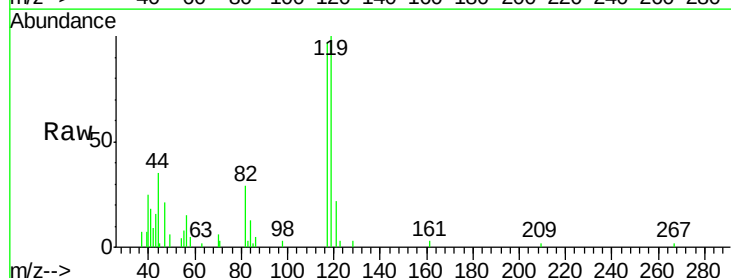
Manual Integrations
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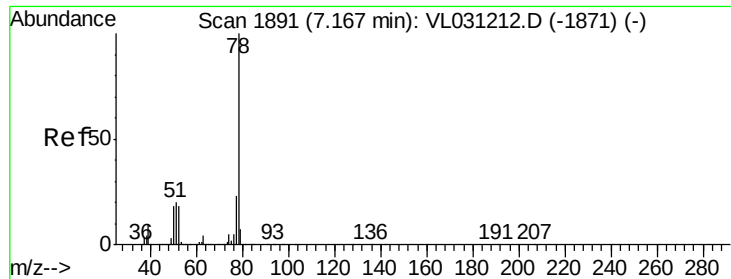
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#35
Carbon Tetrachloride
Concen: 0.07 ppbv m
RT: 7.30 min Scan# 1931
Delta R.T. 0.00 min
Lab File: VL031227.D
Acq: 14 Dec 2017 11:52

Tgt Ion	117	Resp	16384
Ion Ratio	Lower	Upper	
117	100		
119	103.4	75.9	113.9
121	23.2	24.6	37.0#





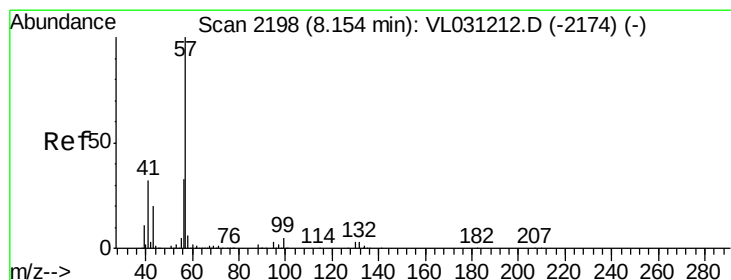
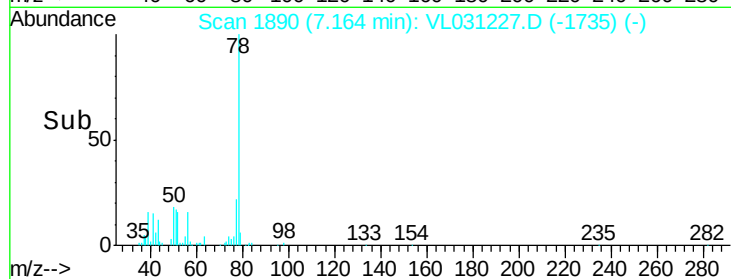
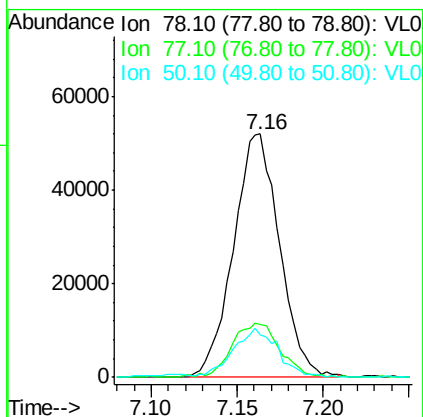
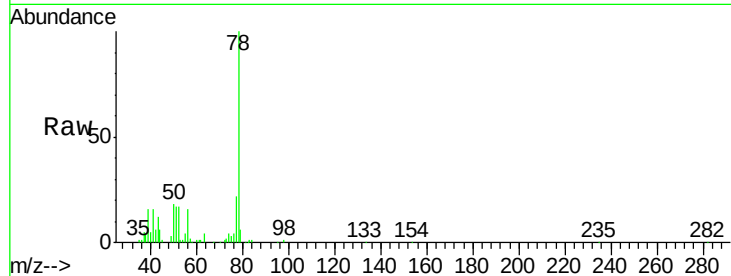
#36
Benzene
Concen: 0.27 ppbv
RT: 7.16 min Scan# 1890
Delta R.T. -0.00 min
Lab File: VL031227.D
Acq: 14 Dec 2017 11:52

Instrument :
MSVOA_L
ClientSampleId :
AIR-UNIT-3

Tot Ion	Ratio	Lower	Upper
78	100		
77	21.4	18.1	27.1
50	17.0	14.6	21.8

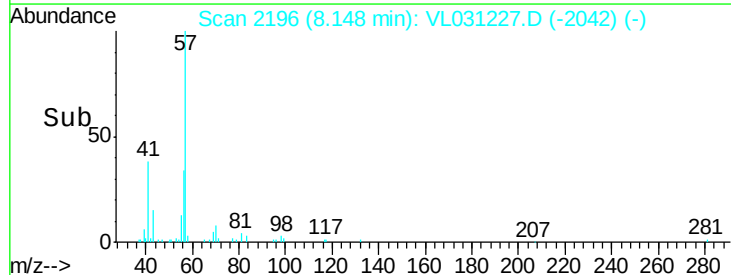
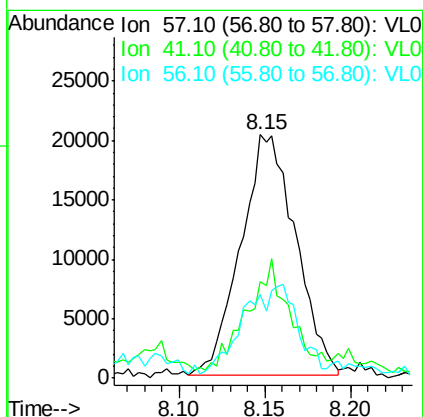
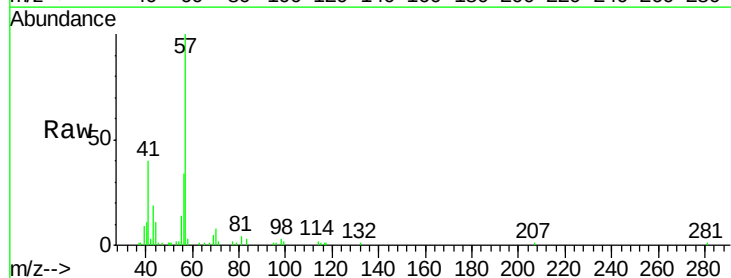
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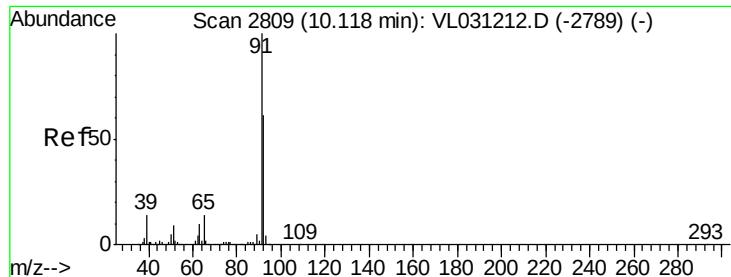
MMDadoda
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#44
2,2,4-Trimethylpentane
Concen: 0.08 ppbv
RT: 8.15 min Scan# 2196
Delta R.T. -0.01 min
Lab File: VL031227.D
Acq: 14 Dec 2017 11:52

Tgt Ion	Ratio	Lower	Upper
57	100		
41	45.2	25.5	38.3#
56	40.8	25.0	37.6#





#53

Toluene

Concen: 0.51 ppbv

RT: 10.12 min Scan# 2808

Delta R.T. -0.00 min

Lab File: VL031227.D

Acq: 14 Dec 2017 11:52

Instrument :

MSVOA_L

ClientSampleId :

AIR-UNIT-3

Tot Ion: 91 Resp: 193801

Ion Ratio Lower Upper

91 100

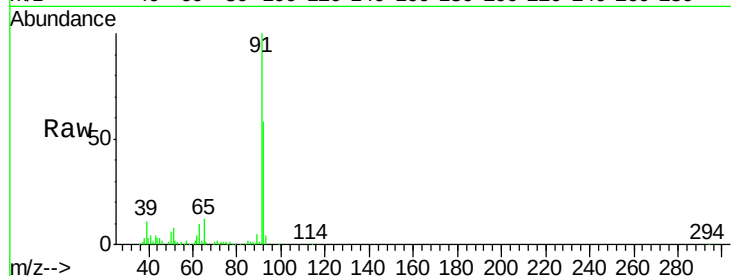
92 59.4 49.1 73.7

Manual Integrations

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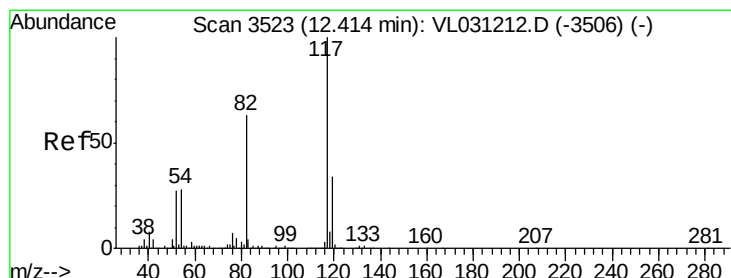
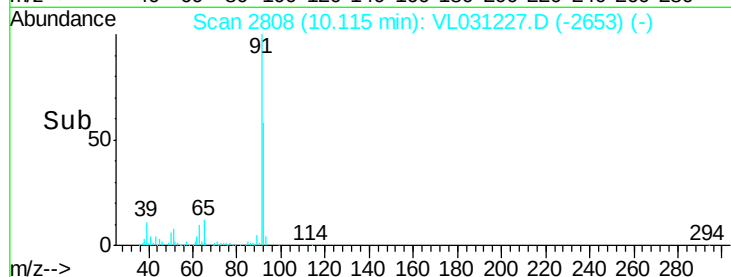
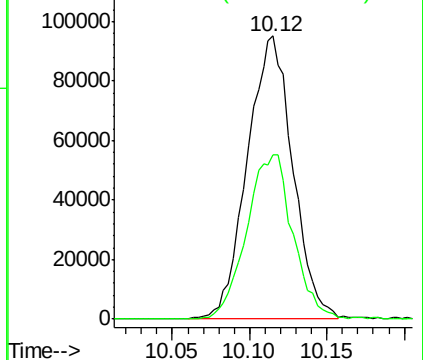
MMDadoda

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.41 min Scan# 3521

Delta R.T. -0.01 min

Lab File: VL031227.D

Acq: 14 Dec 2017 11:52

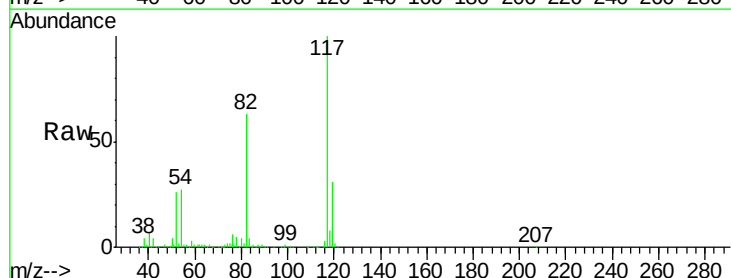
Tgt Ion: 117 Resp: 2688372

Ion Ratio Lower Upper

117 100

82 63.0 48.1 72.1

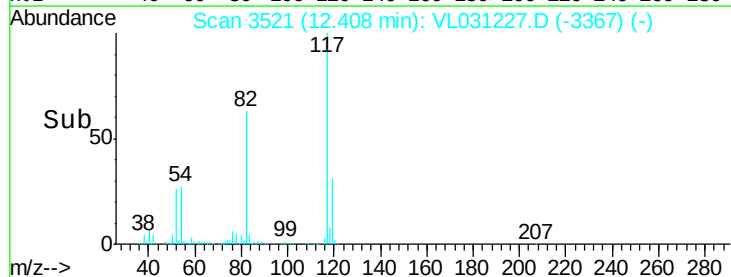
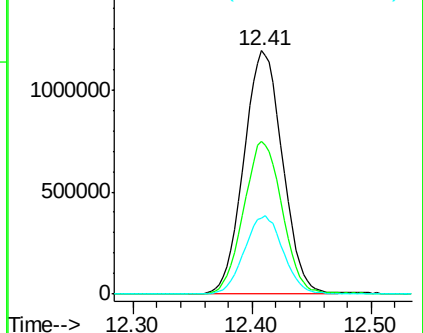
119 32.5 23.1 34.7

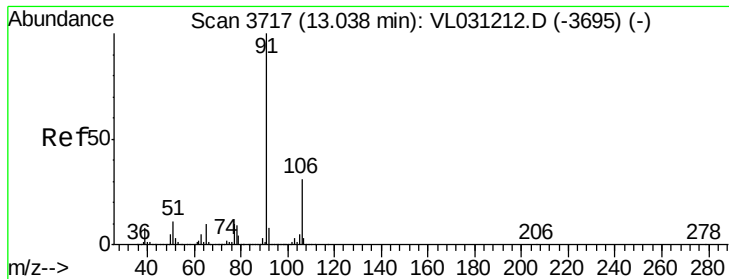


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





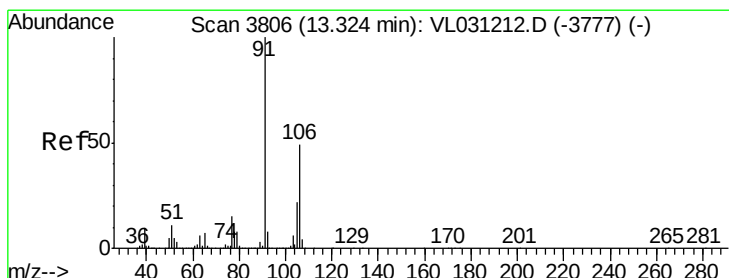
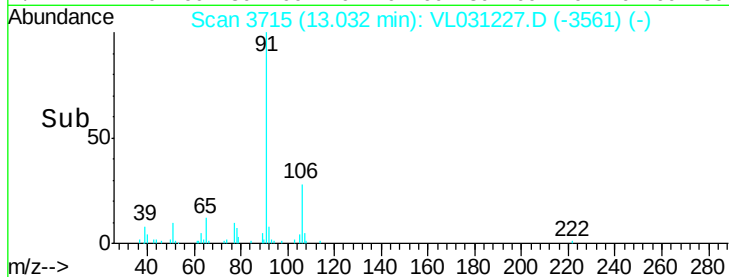
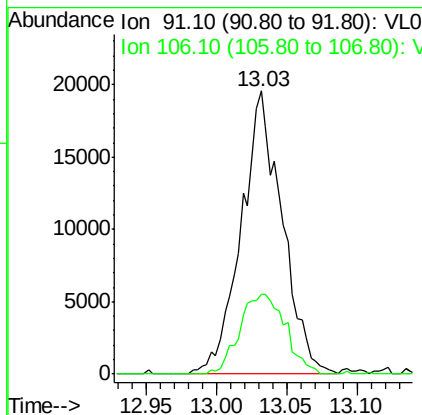
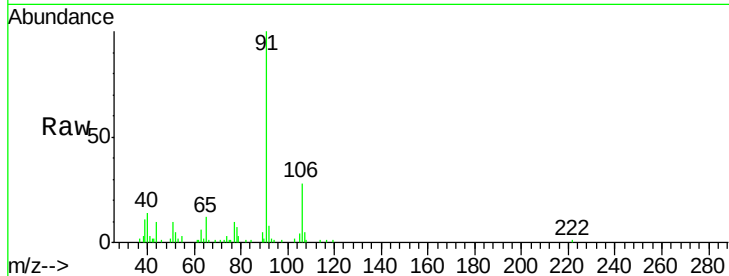
#58
Ethyl Benzene
Concen: 0.09 ppbv
RT: 13.03 min Scan# 3715
Delta R.T. -0.01 min
Lab File: VL031227.D
Acq: 14 Dec 2017 11:52

Instrument :
MSVOA_L
ClientSampleId :
AIR-UNIT-3

Tot Ion: 91 Resp: 39780
Ion Ratio Lower Upper
91 100
106 28.0 25.1 37.7

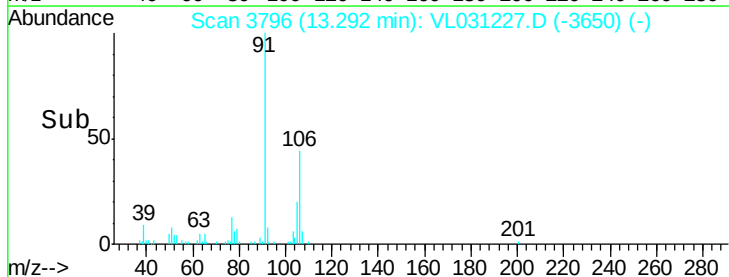
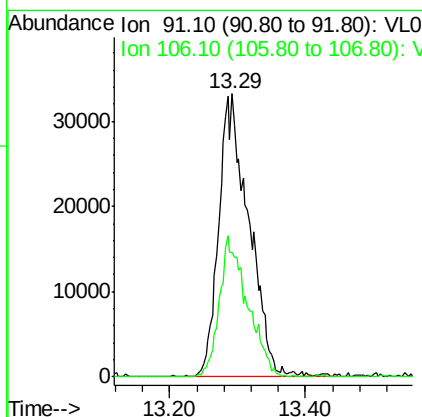
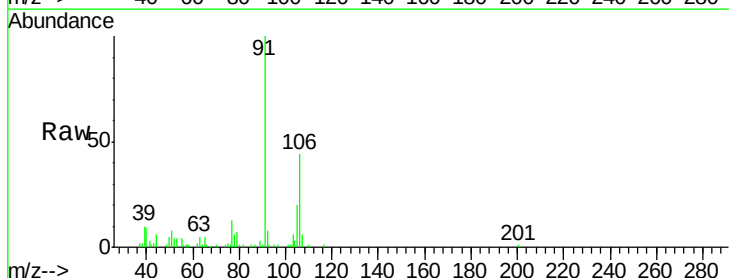
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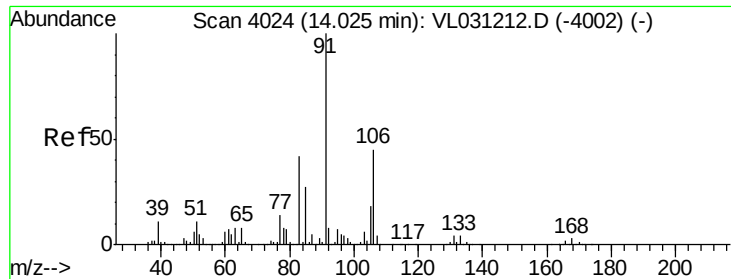
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#59
m/p-Xylene
Concen: 0.29 ppbv m
RT: 13.29 min Scan# 3796
Delta R.T. -0.03 min
Lab File: VL031227.D
Acq: 14 Dec 2017 11:52

Tgt Ion: 91 Resp: 102203
Ion Ratio Lower Upper
91 100
106 0.0 38.5 57.7#





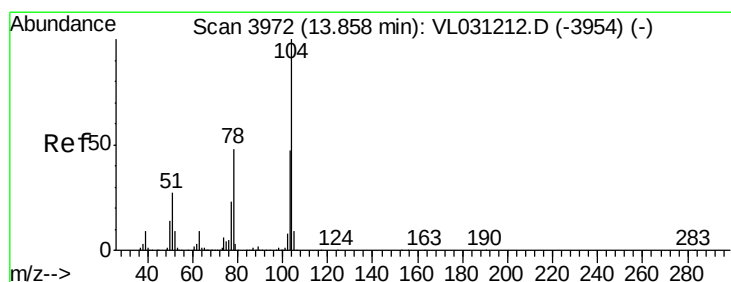
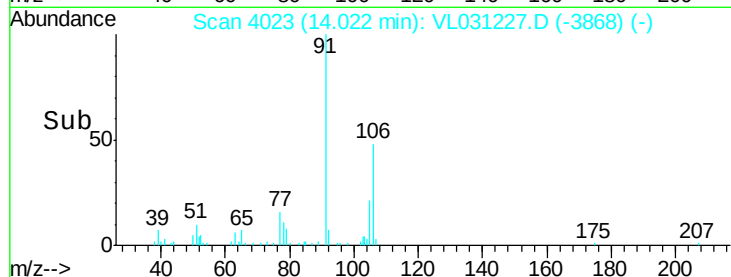
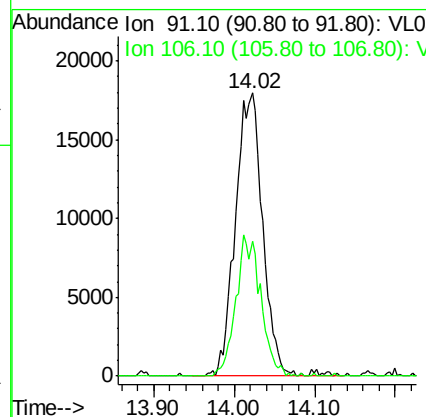
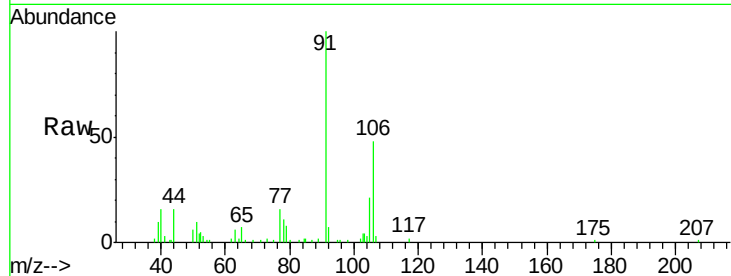
#60
o-Xylene
Concen: 0.12 ppbv m
RT: 14.02 min Scan# 4023
Delta R.T. -0.00 min
Lab File: VL031227.D
Acq: 14 Dec 2017 11:52

Instrument :
MSVOA_L
ClientSampled :
AIR-UNIT-3

Tot Ion: 91 Resp: 41219
Ion Ratio Lower Upper
91 100
106 0.0 22.7 68.1#

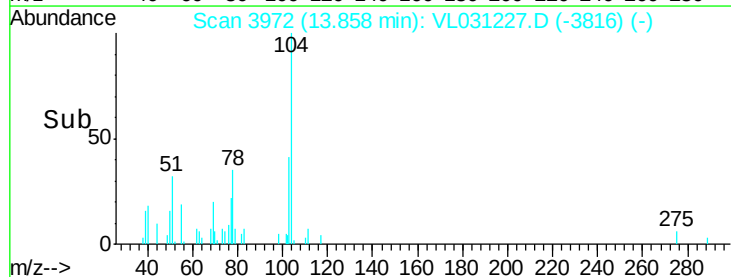
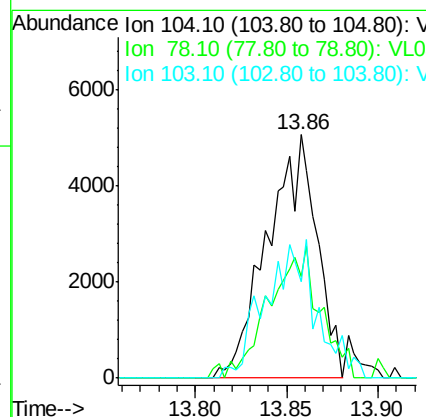
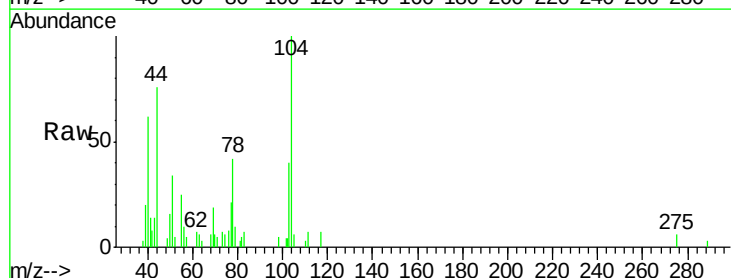
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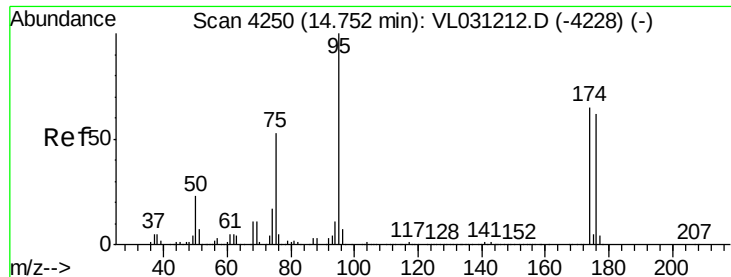
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#61
Styrene
Concen: 0.09 ppbv m
RT: 13.86 min Scan# 3972
Delta R.T. 0.00 min
Lab File: VL031227.D
Acq: 14 Dec 2017 11:52

Tgt Ion: 104 Resp: 9543
Ion Ratio Lower Upper
104 100
78 0.0 39.1 58.7#
103 0.0 37.3 55.9#





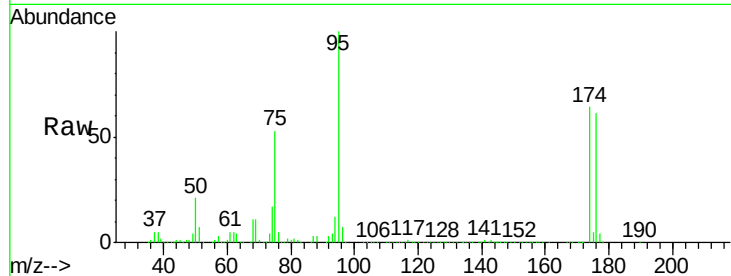
#68
 1-Bromo-4-Fluorobenzene
 Concen: 12.59 ppbv
 RT: 14.75 min Scan# 4248
 Delta R.T. -0.01 min
 Lab File: VL031227.D
 Acq: 14 Dec 2017 11:52

Instrument :
 MSVOA_L
 ClientSampleId :
 AIR-UNIT-3

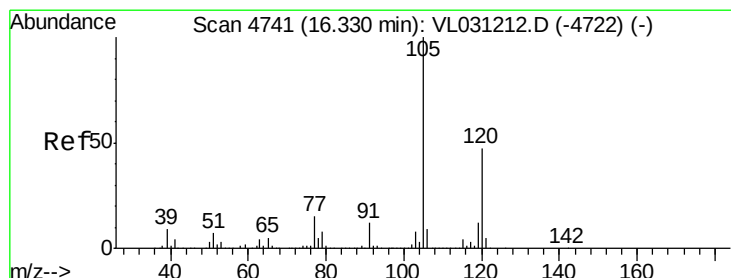
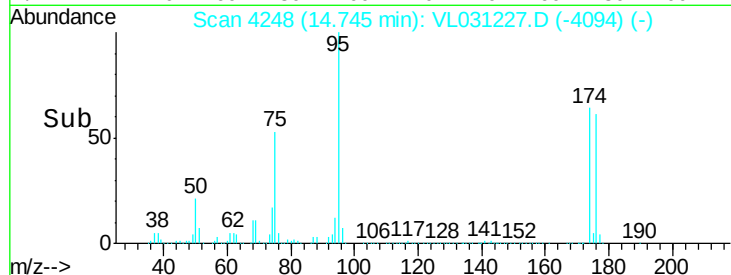
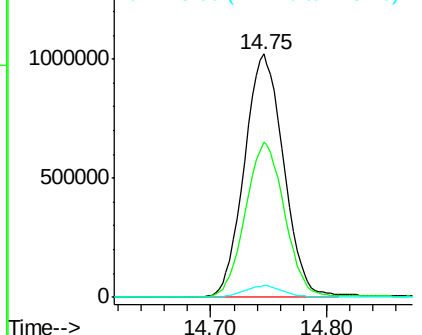
Tot Ion: 95 Resp: 2407394
 Ion Ratio Lower Upper
 95 100
 174 64.7 52.5 78.7
 175 4.8 4.1 6.1

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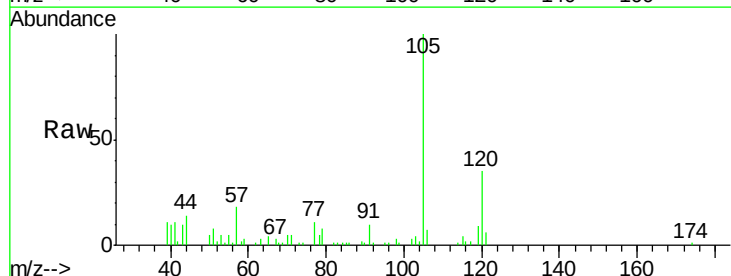


Abundance Ion 95.10 (94.80 to 95.80): VL0
 Ion 174.00 (173.70 to 174.70): V
 Ion 175.00 (174.70 to 175.70): V

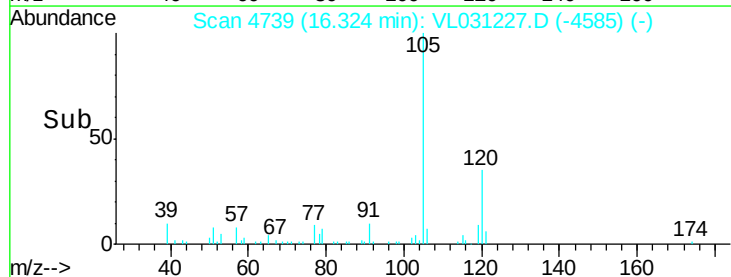
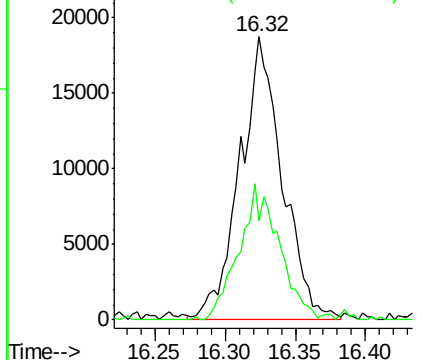


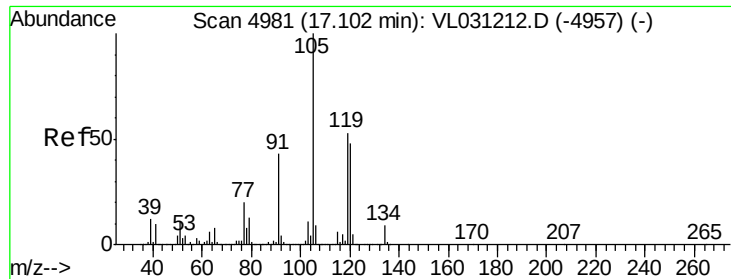
#73
 1,3,5-Trimethylbenzene
 Concen: 0.11 ppbv m
 RT: 16.32 min Scan# 4739
 Delta R.T. -0.01 min
 Lab File: VL031227.D
 Acq: 14 Dec 2017 11:52

Tgt Ion: 105 Resp: 39259
 Ion Ratio Lower Upper
 105 100
 120 35.1 37.8 56.6#



Abundance Ion 105.10 (104.80 to 105.80): V
 Ion 120.20 (119.90 to 120.90): V





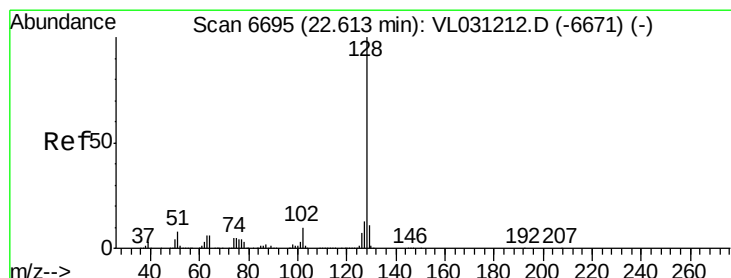
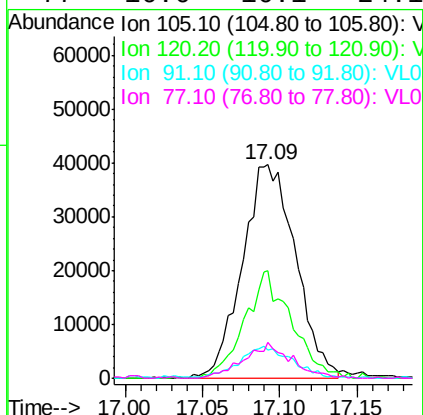
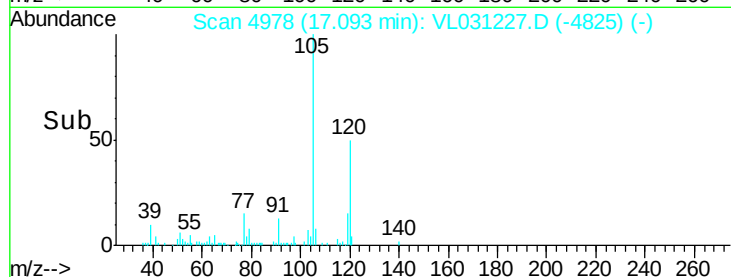
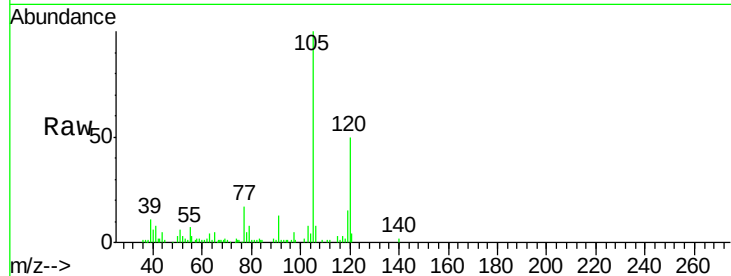
#74
 1,2,4-Trimethylbenzene
 Concen: 0.26 ppbv
 RT: 17.09 min Scan# 4978
 Delta R.T. -0.01 min
 Lab File: VL031227.D
 Acq: 14 Dec 2017 11:52

Instrument :
 MSVOA_L
 ClientSampleId :
 AIR-UNIT-3

Tot Ion	Ratio	Lower	Upper
105	100		
120	50.3	38.6	58.0
91	12.3	34.2	51.4#
77	16.6	16.1	24.1

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#79
 Naphthalene
 Concen: 0.11 ppbv m
 RT: 22.61 min Scan# 6695
 Delta R.T. 0.00 min
 Lab File: VL031227.D
 Acq: 14 Dec 2017 11:52

Tgt Ion	Ratio	Lower	Upper
128	100		
127	9.8	10.2	15.2#
129	9.3	8.9	13.3

