

Data File : VL031236.D
Acq On : 14 Dec 2017 17:47
Operator : SY/AP
Sample : I6907-03
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
INFLUENT

Manual Integrations
APPROVED

MMDadoda
12/15/2017 4:07:16 PM

Quant Time: Dec 16 04:13:06 2017
Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL121317AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu 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	1464663	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.45	114	3532863	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.41	117	2875222	10.00	ppbv	0.00

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.75 95 2367061 11.57 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 115.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.18	85	70568	0.57	ppbv	99
3) Chlorodifluoromethane	3.12	51	53394m	0.32	ppbv	
7) Chloroethane	3.72	64	141713	4.11	ppbv	92
9) Propene	3.15	41	297568m	3.64	ppbv	
10) Heptane	8.41	43	33389	0.13	ppbv	99
11) Trichlorofluoromethane	4.13	101	219428	1.08	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.68	101	730720	5.13	ppbv	96
13) Ethanol	3.77	45	396966	16.84	ppbv	99
15) Acetone	4.04	43	576336	2.98	ppbv #	76
18) 1,1-Dichloroethene	4.48	96	322840	5.06	ppbv	91
19) Isopropyl Alcohol	4.16	45	114064	0.93	ppbv #	47
20) Methylene Chloride	4.54	84	57187	0.89	ppbv	89
22) trans-1,2-Dichloroethene	5.10	96	78522	1.00	ppbv	93
24) 1,1-Dichloroethane	5.23	63	4281864	18.93	ppbv	99
26) Hexane	5.93	57	51203	0.27	ppbv #	49
31) cis-1,2-Dichloroethene	5.78	61	23454	0.14	ppbv	96
32) 1,1,1-Trichloroethane	6.77	97	11125861	41.15	ppbv	95
34) 2-Butanone	5.49	43	38777	0.16	ppbv	100
36) Benzene	7.16	78	54950	0.15	ppbv	94
44) 2,2,4-Trimethylpentane	8.16	57	67471m	0.12	ppbv	
53) Toluene	10.12	91	228132	0.56	ppbv	98
58) Ethyl Benzene	13.03	91	35059	0.07	ppbv	94
59) m/p-Xylene	13.29	91	99390m	0.26	ppbv	
60) o-Xylene	14.02	91	36085m	0.09	ppbv	

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

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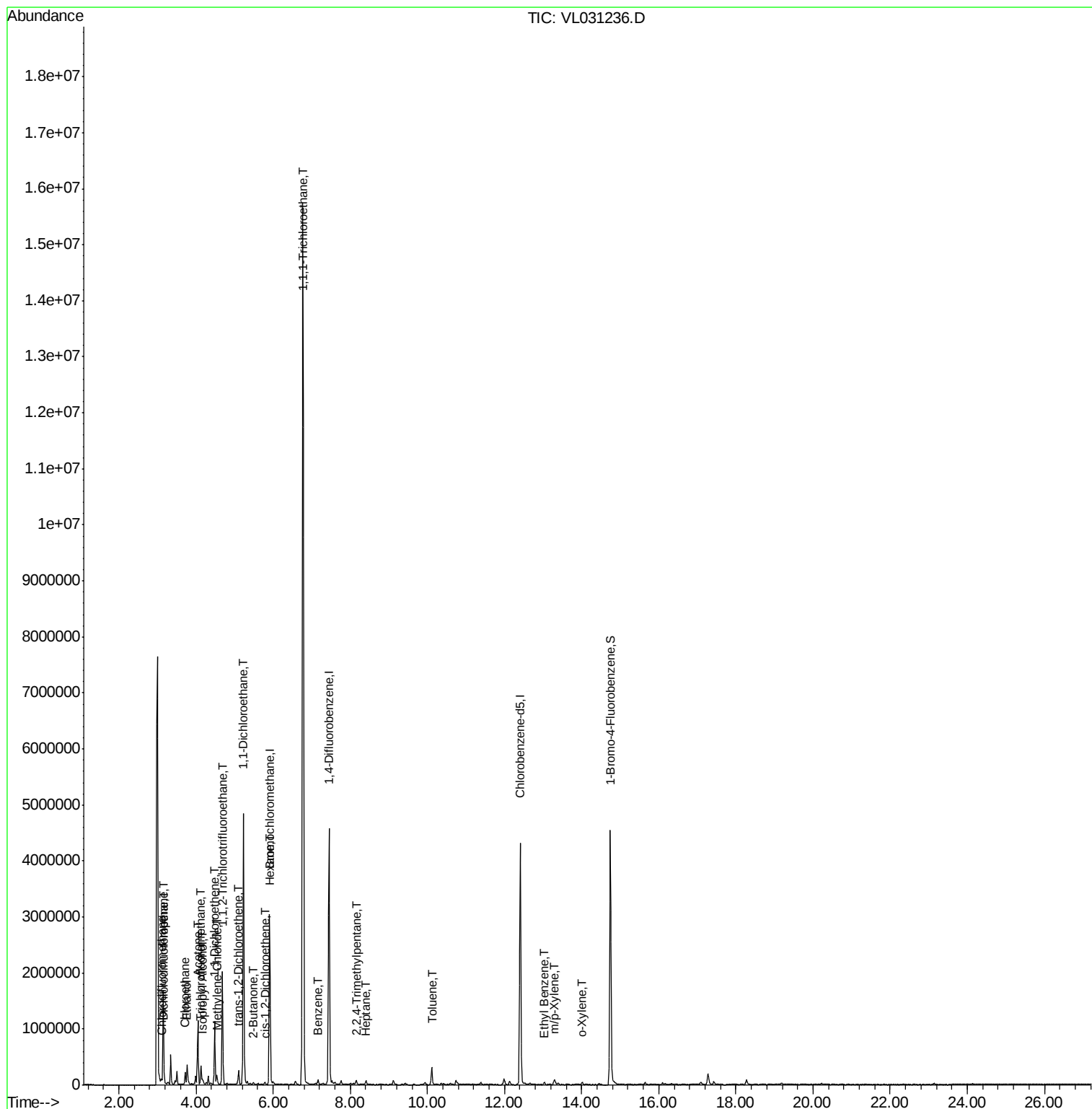
Quant Time: Dec 16 04:13:06 2017

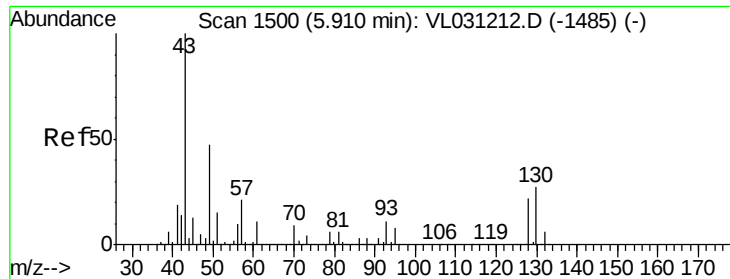
Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL121317AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LThu 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: VL031236.D

Acq: 14 Dec 2017 17:47

Instrument :

MSVOA_L

ClientSampleId :

INFLUENT

Tgt Ion: 49 Resp: 1464663

Ion Ratio Lower Upper

49 100

128 49.0 23.2 69.5

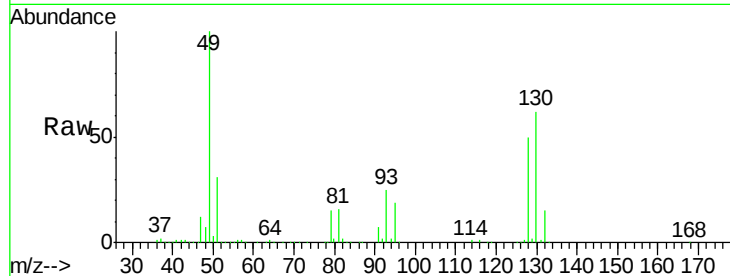
130 62.5 29.6 88.8

Manual Integrations

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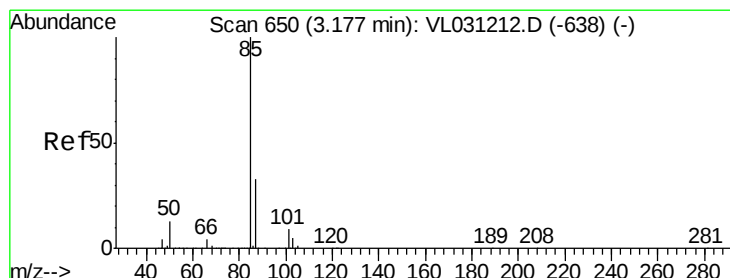
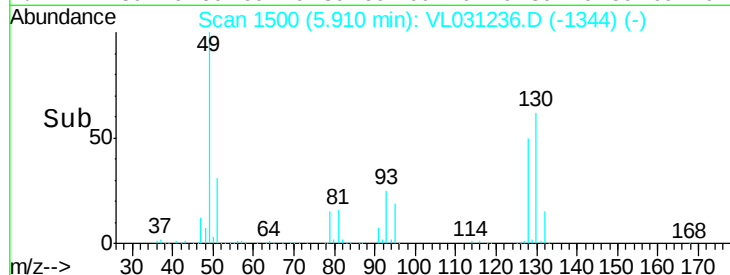
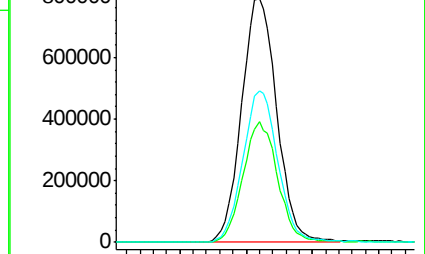
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.57 ppbv

RT: 3.18 min Scan# 651

Delta R.T. 0.00 min

Lab File: VL031236.D

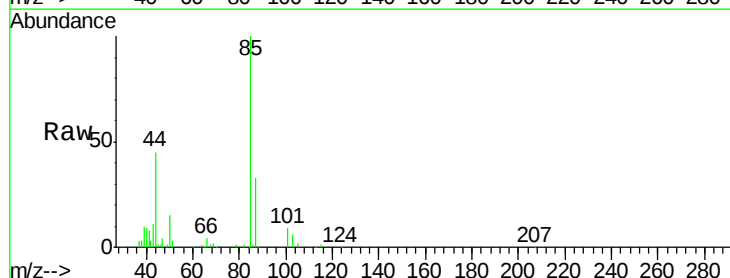
Acq: 14 Dec 2017 17:47

Tgt Ion: 85 Resp: 70568

Ion Ratio Lower Upper

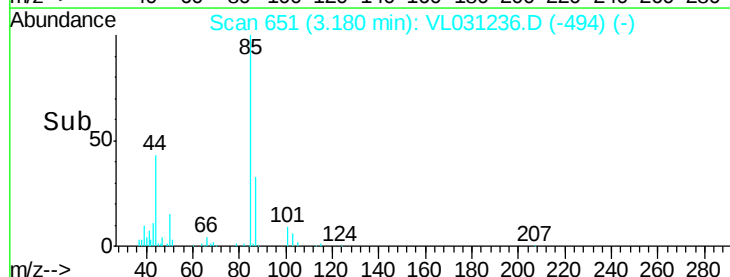
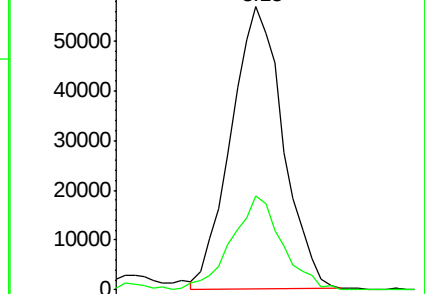
85 100

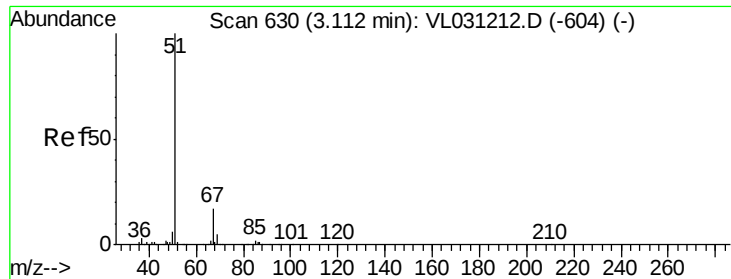
87 33.3 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.32 ppbv m

RT: 3.12 min Scan# 631

Delta R.T. 0.00 min

Lab File: VL031236.D

Acq: 14 Dec 2017 17:47

Instrument :

MSVOA_L

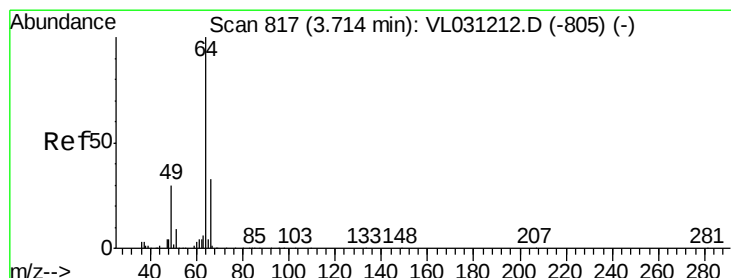
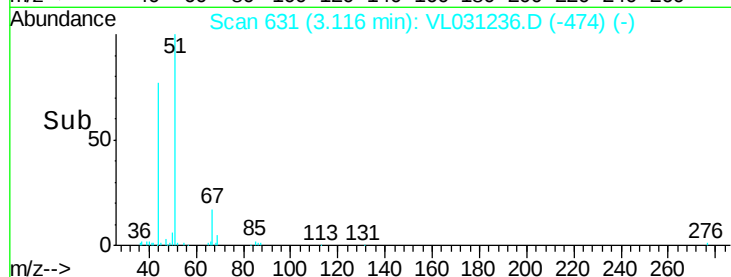
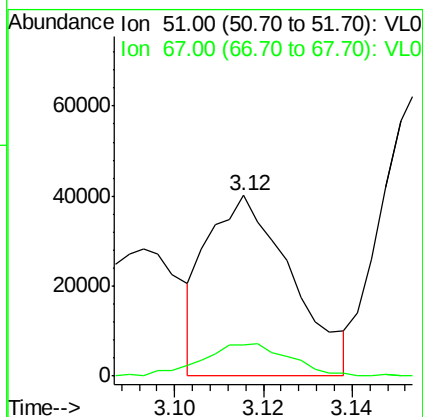
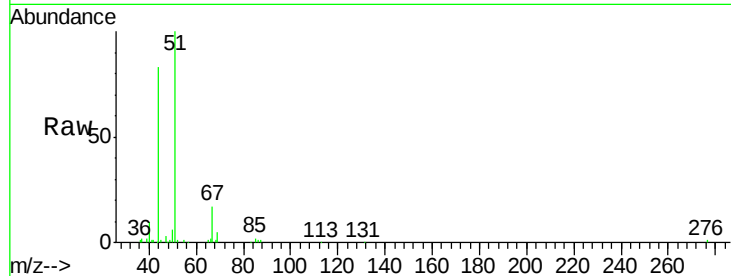
ClientSampleId :

INFLUENT

Tgt Ion: 51 Resp: 53394
 Ion Ratio Lower Upper
 51 100
 67 3.0 13.8 20.6#

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#7

Chloroethane

Concen: 4.11 ppbv

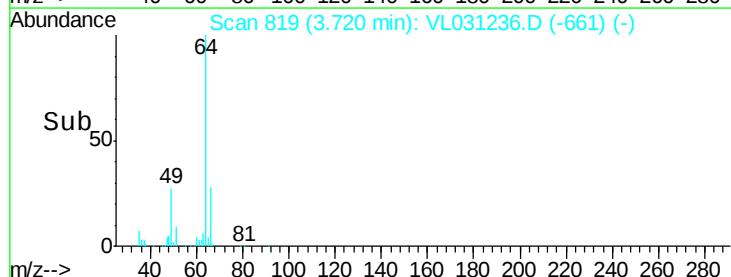
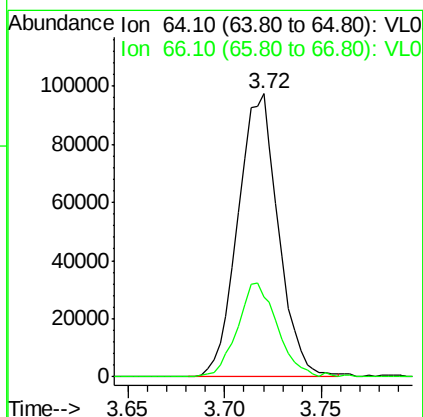
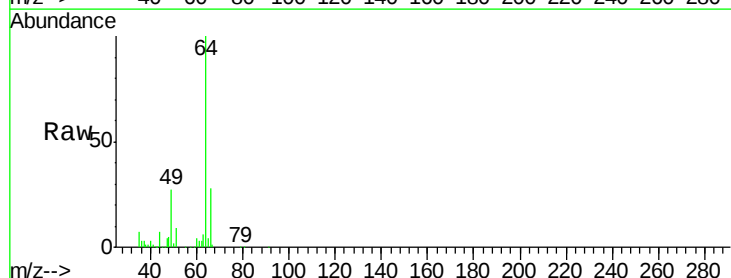
RT: 3.72 min Scan# 819

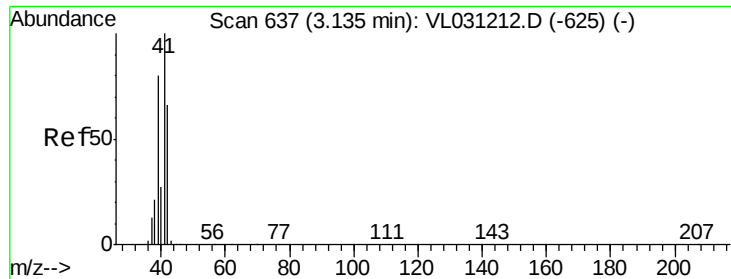
Delta R.T. 0.01 min

Lab File: VL031236.D

Acq: 14 Dec 2017 17:47

Tgt Ion: 64 Resp: 141713
 Ion Ratio Lower Upper
 64 100
 66 28.2 26.2 39.2





#9

Propene

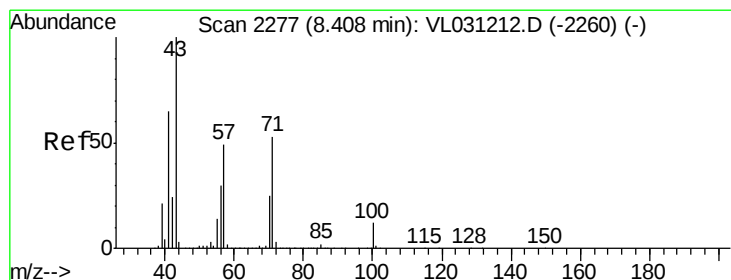
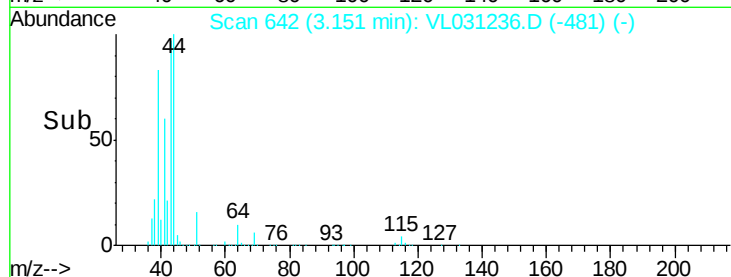
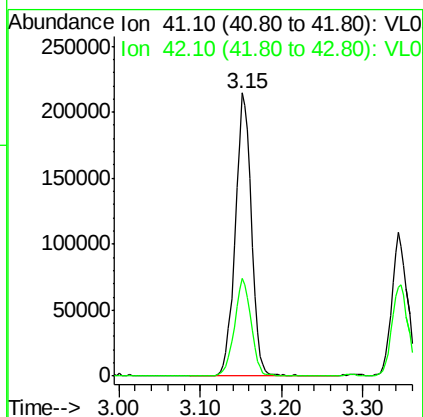
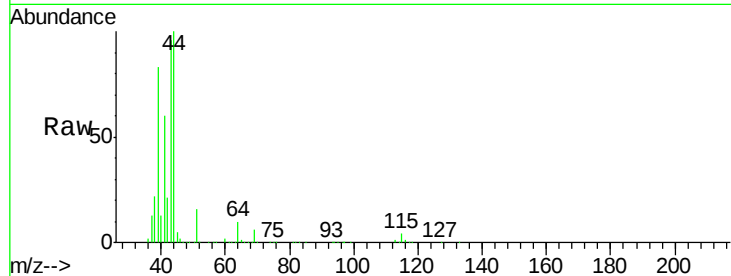
Concen: 3.64 ppbv m
 RT: 3.15 min Scan# 642
 Delta R.T. 0.02 min
 Lab File: VL031236.D
 Acq: 14 Dec 2017 17:47

Instrument :
 MSVOA_L
 ClientSampleId :
 INFLUENT

Tgt Ion: 41 Resp: 297568
 Ion Ratio Lower Upper
 41 100
 42 31.8 54.3 81.5#

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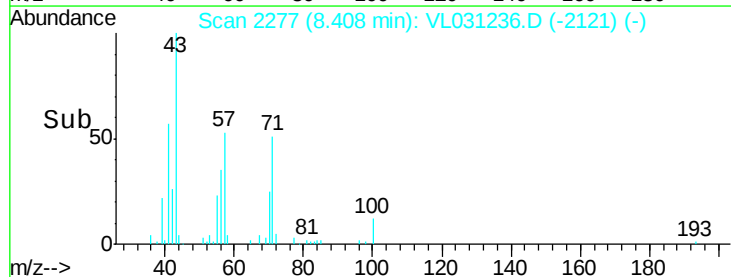
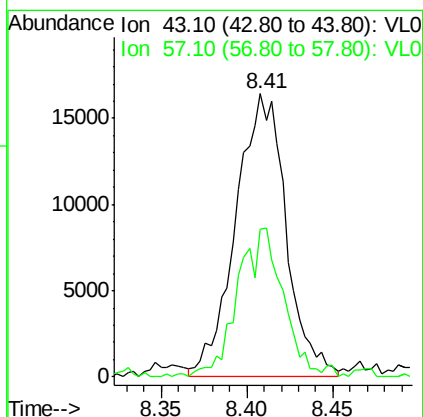
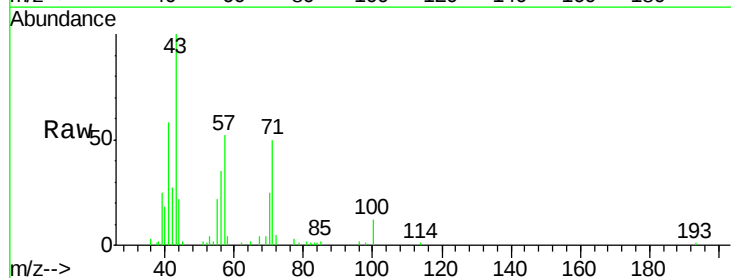


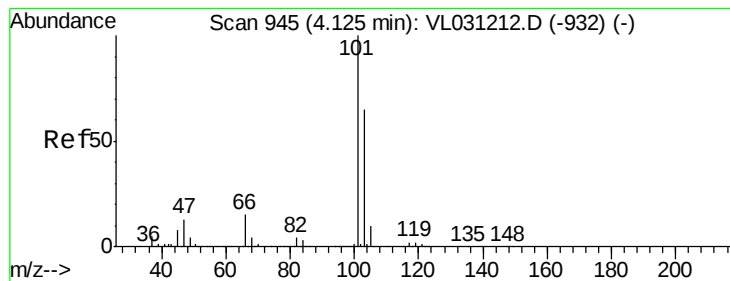
#10

Heptane

Concen: 0.13 ppbv
 RT: 8.41 min Scan# 2277
 Delta R.T. 0.00 min
 Lab File: VL031236.D
 Acq: 14 Dec 2017 17:47

Tgt Ion: 43 Resp: 33389
 Ion Ratio Lower Upper
 43 100
 57 49.1 39.8 59.8





#11

Trichlorofluoromethane

Concen: 1.08 ppbv

RT: 4.13 min Scan# 946

Delta R.T. 0.00 min

Lab File: VL031236.D

Acq: 14 Dec 2017 17:47

Instrument :

MSVOA_L

ClientSampleId :

INFLUENT

Tgt Ion:101 Resp: 219428

Ion Ratio Lower Upper

101 100

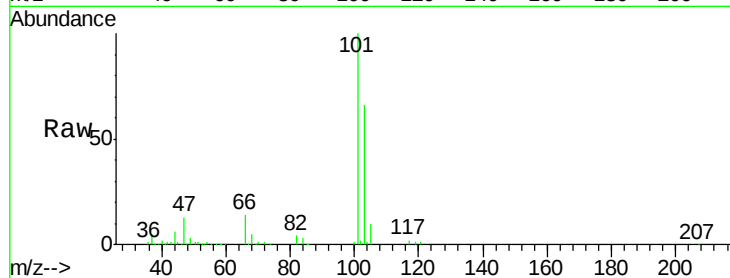
103 66.3 51.8 77.8

Manual Integrations

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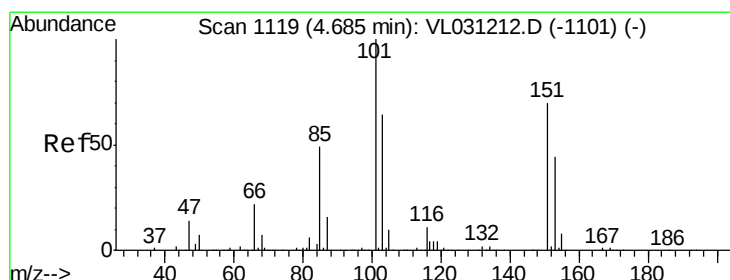
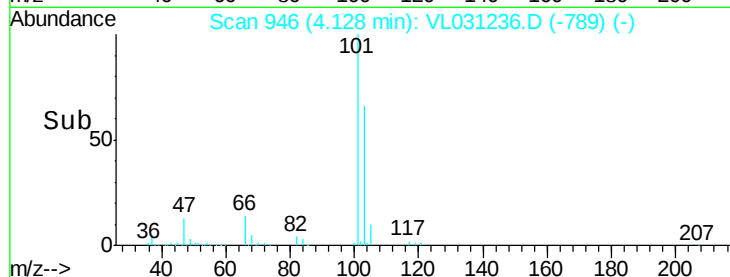
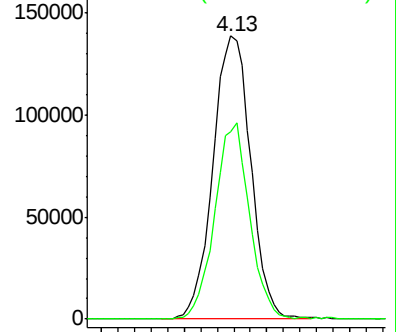
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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 5.13 ppbv

RT: 4.68 min Scan# 1119

Delta R.T. 0.00 min

Lab File: VL031236.D

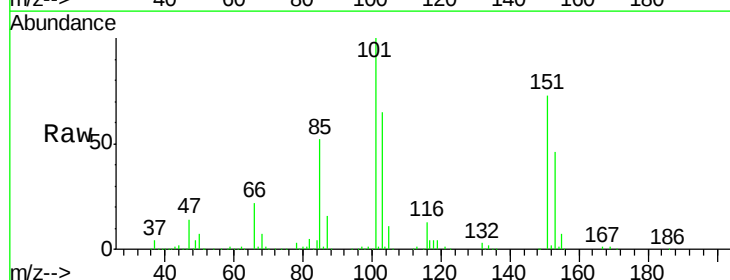
Acq: 14 Dec 2017 17:47

Tgt Ion:101 Resp: 730720

Ion Ratio Lower Upper

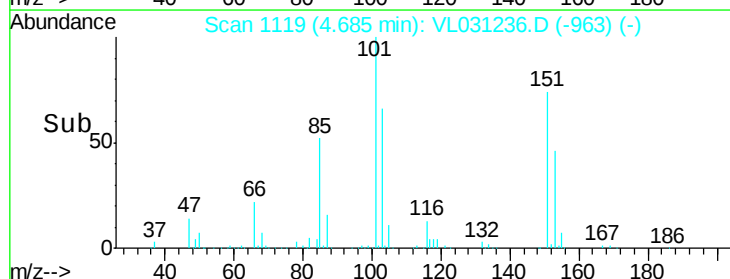
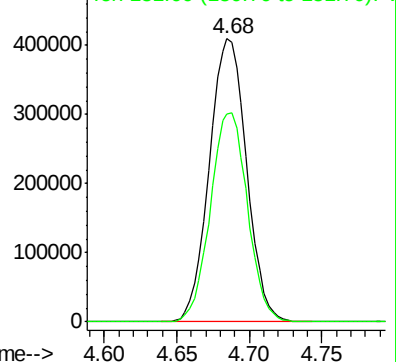
101 100

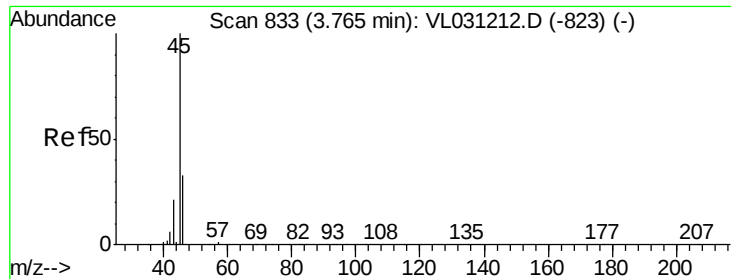
151 73.7 56.5 84.7



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





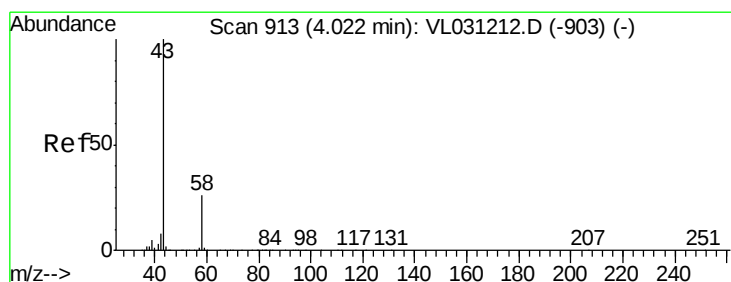
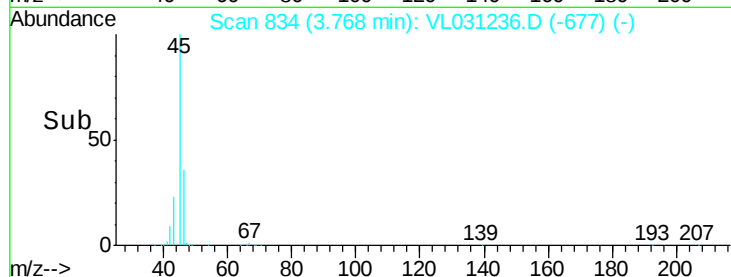
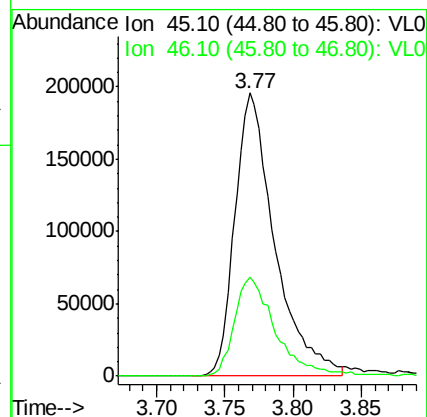
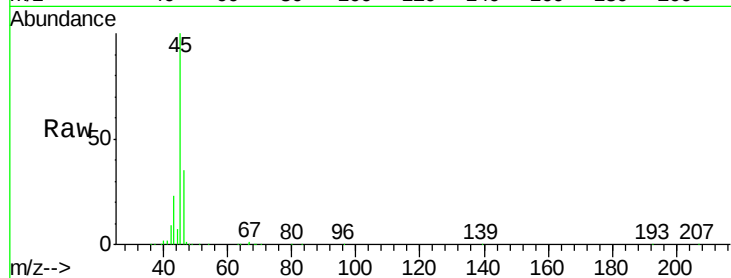
#13
Ethanol
Concen: 16.84 ppbv
RT: 3.77 min Scan# 834
Delta R.T. 0.00 min
Lab File: VL031236.D
Acq: 14 Dec 2017 17:47

Instrument :
MSVOA_L
ClientSampleId :
INFLUENT

Tgt Ion: 45 Resp: 396966
Ion Ratio Lower Upper
45 100
46 37.0 14.6 58.4

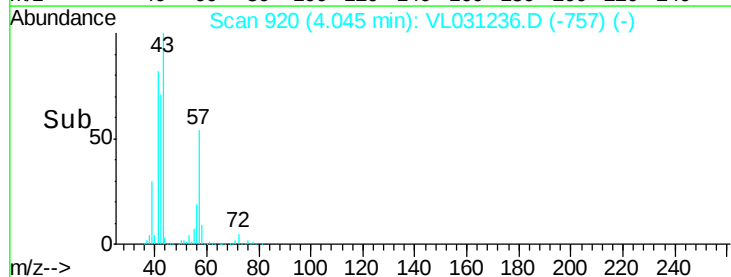
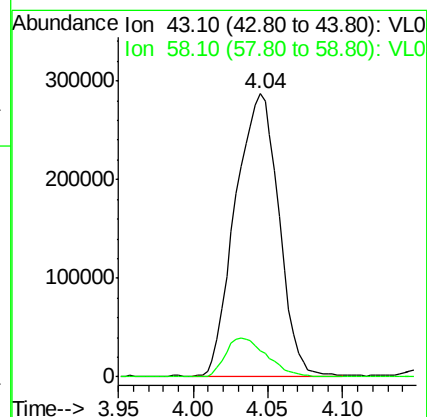
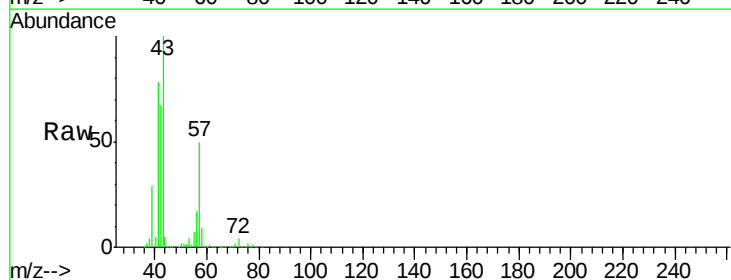
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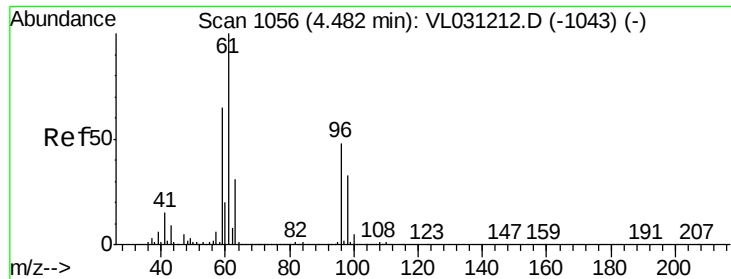
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#15
Acetone
Concen: 2.98 ppbv
RT: 4.04 min Scan# 920
Delta R.T. 0.02 min
Lab File: VL031236.D
Acq: 14 Dec 2017 17:47

Tgt Ion: 43 Resp: 576336
Ion Ratio Lower Upper
43 100
58 13.3 20.3 30.5#





#18

1,1-Dichloroethene

Concen: 5.06 ppbv

RT: 4.48 min Scan# 1056

Delta R.T. 0.00 min

Lab File: VL031236.D

Acq: 14 Dec 2017 17:47

Instrument :

MSVOA_L

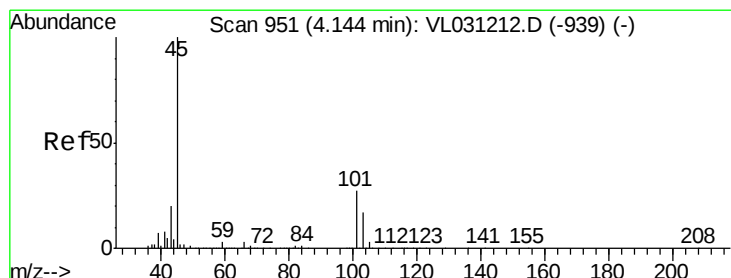
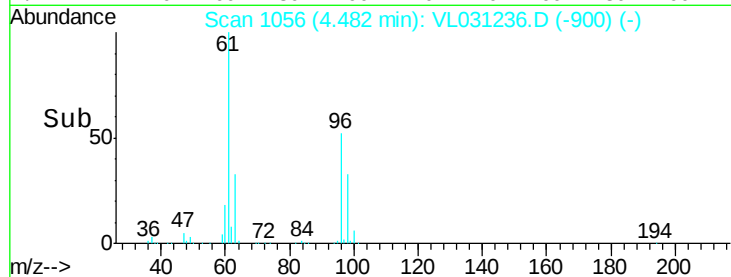
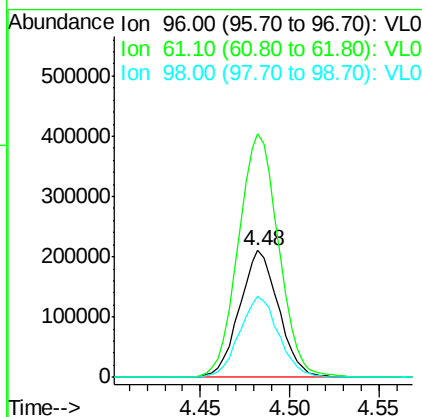
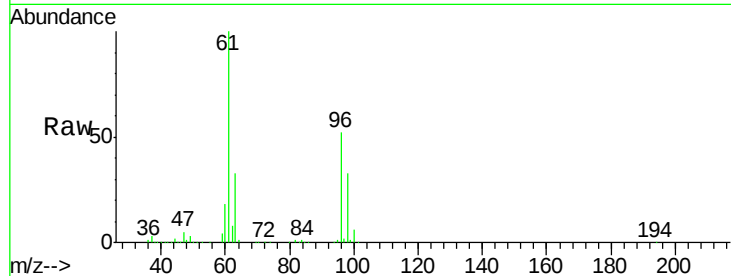
ClientSampled :

INFLUENT

Tgt Ion:	96	Resp:	322840
Ion	Ratio	Lower	Upper
96	100		
61	192.3	166.8	250.2
98	64.2	55.0	82.6

Manual Integrations
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#19

Isopropyl Alcohol

Concen: 0.93 ppbv

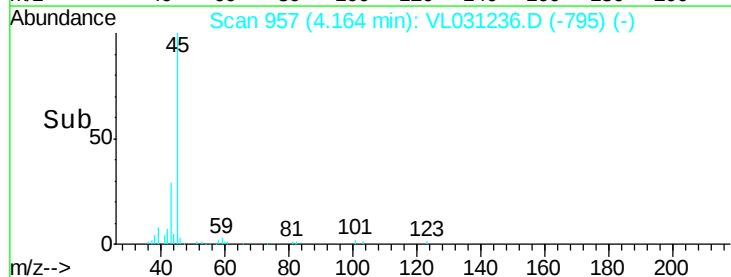
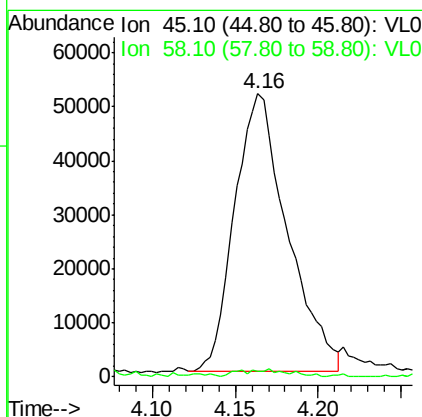
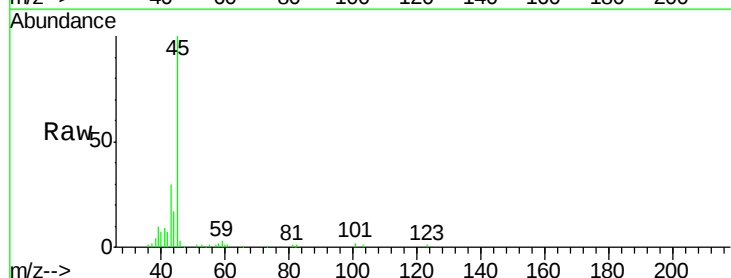
RT: 4.16 min Scan# 957

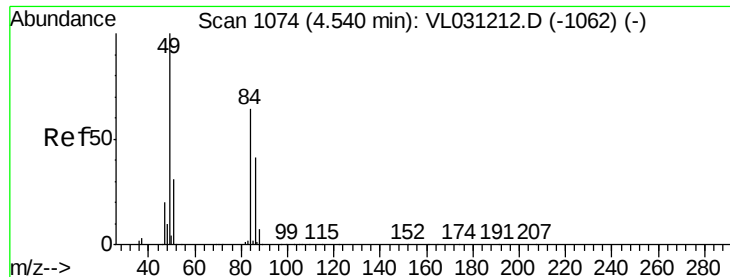
Delta R.T. 0.02 min

Lab File: VL031236.D

Acq: 14 Dec 2017 17:47

Tgt Ion:	45	Resp:	114064
Ion	Ratio	Lower	Upper
45	100		
58	3.4	27.2	40.8#





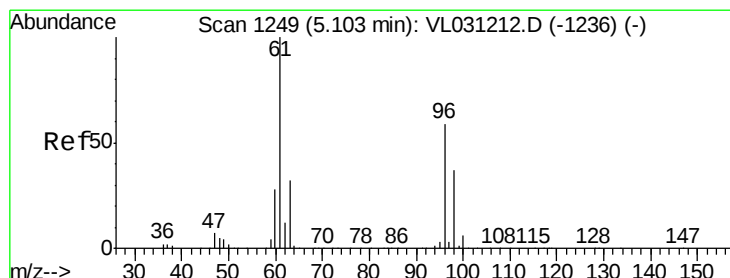
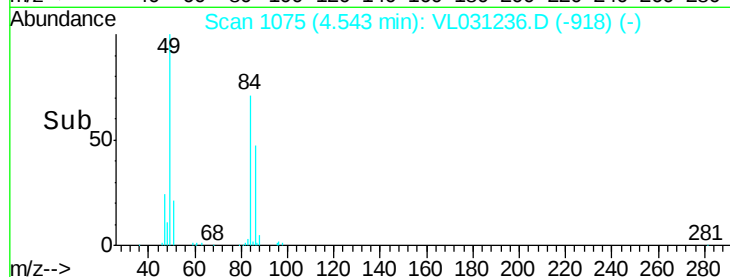
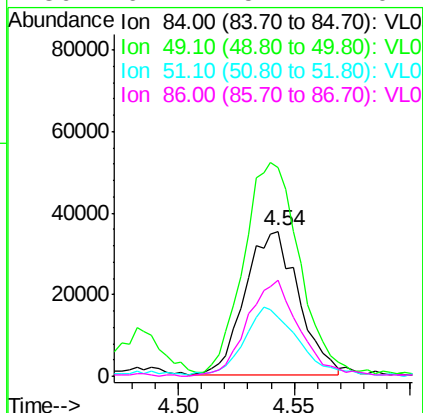
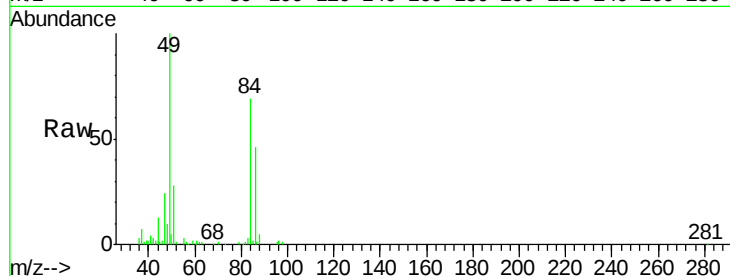
#20
Methylene Chloride
Concen: 0.89 ppbv
RT: 4.54 min Scan# 1075
Delta R.T. 0.00 min
Lab File: VL031236.D
Acq: 14 Dec 2017 17:47

Instrument :
MSVOA_L
ClientSampleId :
INFLUENT

Tgt Ion:	84	Resp:	57187
Ion Ratio	Lower	Upper	
84	100		
49	141.1	125.8	188.6
51	40.1	39.3	58.9
86	67.2	51.1	76.7

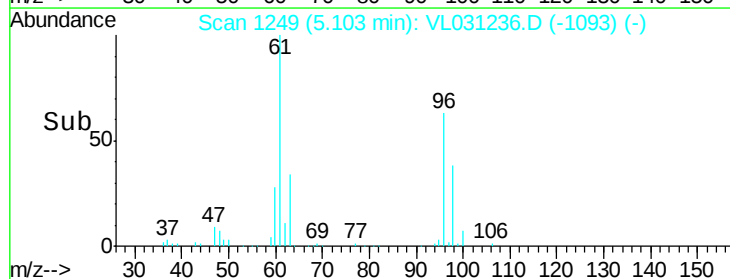
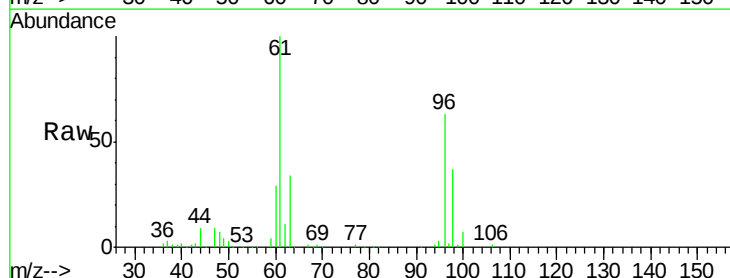
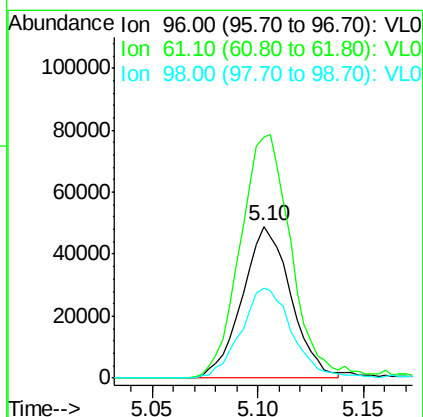
Manual Integrations
APPROVED

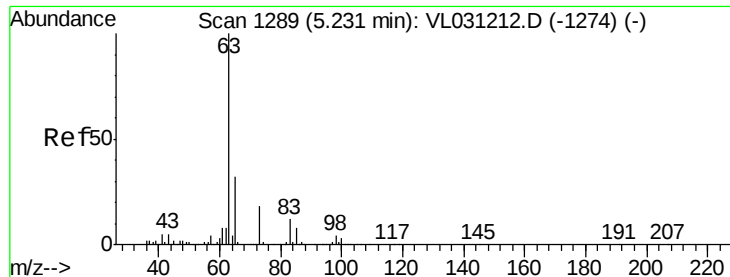
MMDadoda
12/15/2017 4:07:16 PM



#22
trans-1,2-Dichloroethene
Concen: 1.00 ppbv
RT: 5.10 min Scan# 1249
Delta R.T. 0.00 min
Lab File: VL031236.D
Acq: 14 Dec 2017 17:47

Tgt Ion:	96	Resp:	78522
Ion Ratio	Lower	Upper	
96	100		
61	158.8	135.0	202.4
98	58.8	50.5	75.7





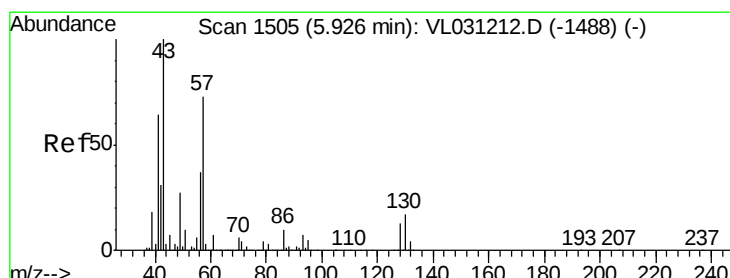
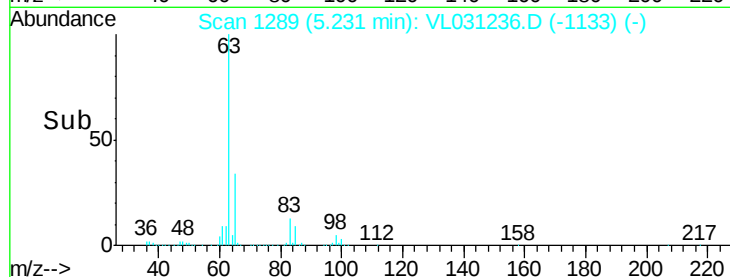
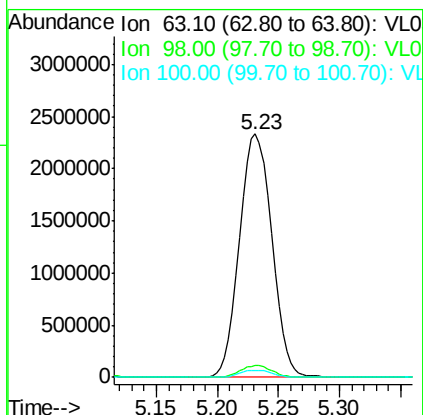
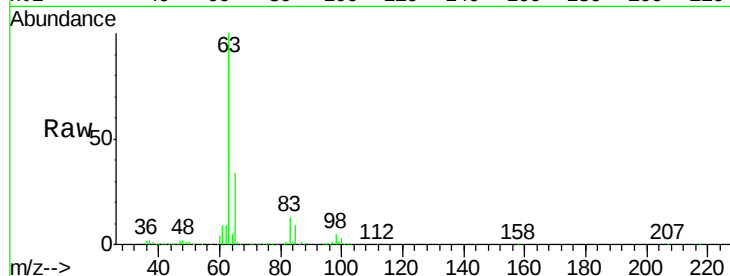
#24
 1,1-Dichloroethane
 Concen: 18.93 ppbv
 RT: 5.23 min Scan# 1289
 Delta R.T. 0.00 min
 Lab File: VL031236.D
 Acq: 14 Dec 2017 17:47

Instrument :
 MSVOA_L
 ClientSampleId :
 INFLUENT

Tgt Ion: 63 Resp: 4281864
 Ion Ratio Lower Upper
 63 100
 98 4.7 2.3 6.8
 100 3.1 1.4 4.2

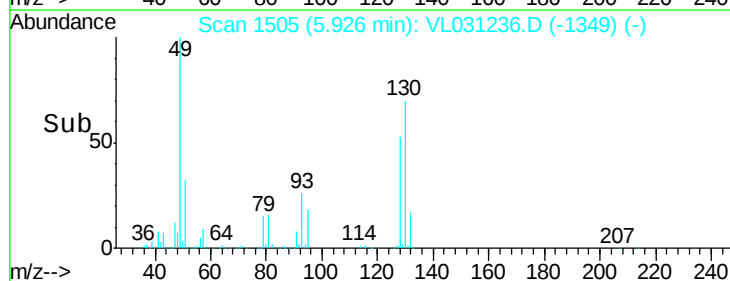
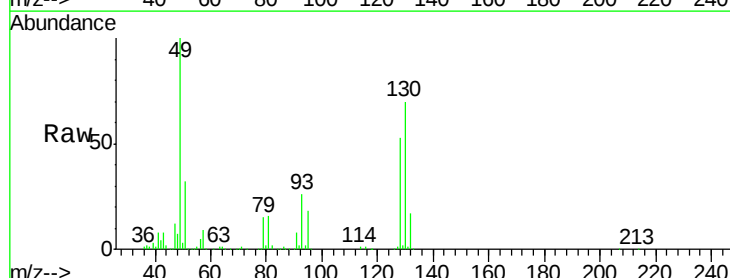
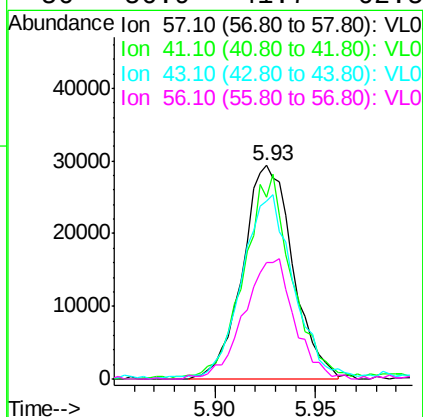
Manual Integrations
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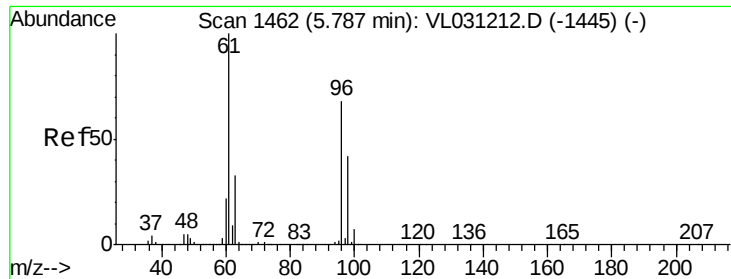
MMDadoda
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#26
 Hexane
 Concen: 0.27 ppbv
 RT: 5.93 min Scan# 1505
 Delta R.T. 0.00 min
 Lab File: VL031236.D
 Acq: 14 Dec 2017 17:47

Tgt Ion: 57 Resp: 51203
 Ion Ratio Lower Upper
 57 100
 41 92.5 70.3 105.5
 43 89.4 173.8 260.8#
 56 56.9 41.7 62.5





#31

cis-1,2-Dichloroethene

Concen: 0.14 ppbv

RT: 5.78 min Scan# 1461

Delta R.T. -0.00 min

Lab File: VL031236.D

Acq: 14 Dec 2017 17:47

Instrument :

MSVOA_L

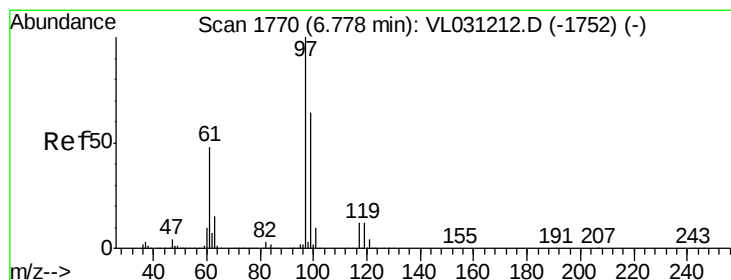
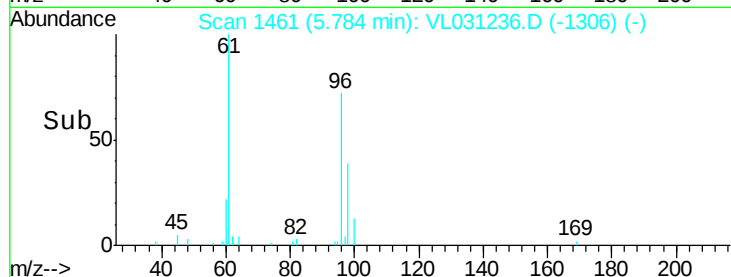
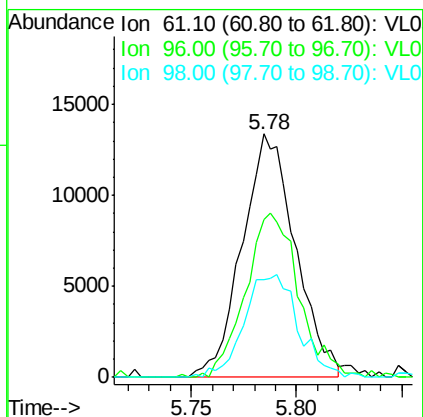
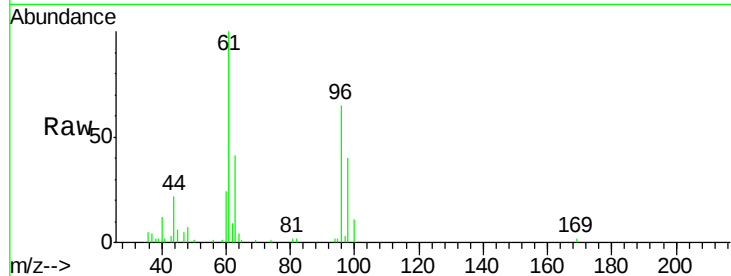
ClientSampleId :

INFLUENT

Tgt Ion:	61	Resp:	23454
Ion	Ratio	Lower	Upper
61	100		
96	64.7	54.4	81.6
98	40.1	33.6	50.4

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#32

1,1,1-Trichloroethane

Concen: 41.15 ppbv

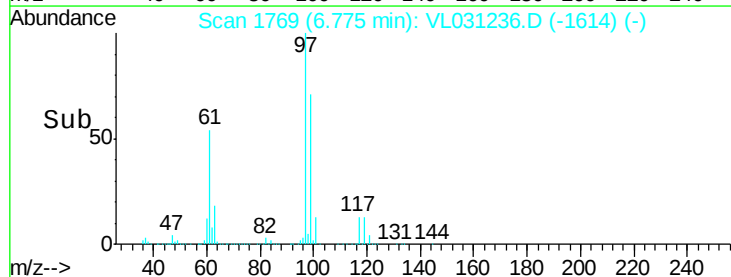
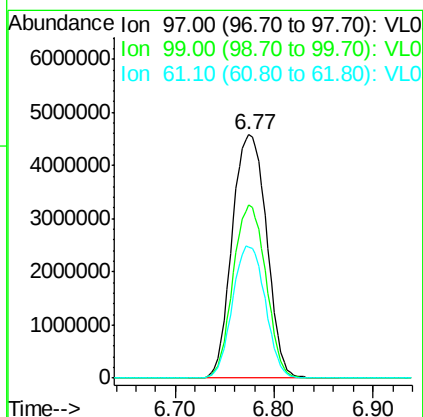
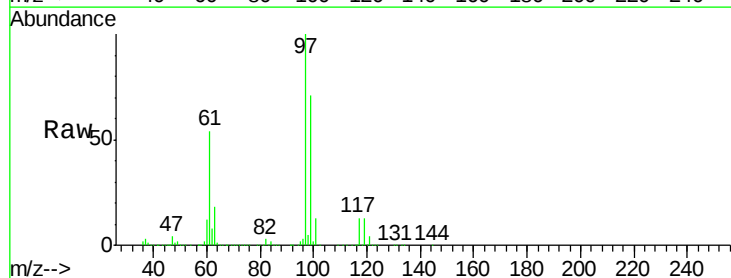
RT: 6.77 min Scan# 1769

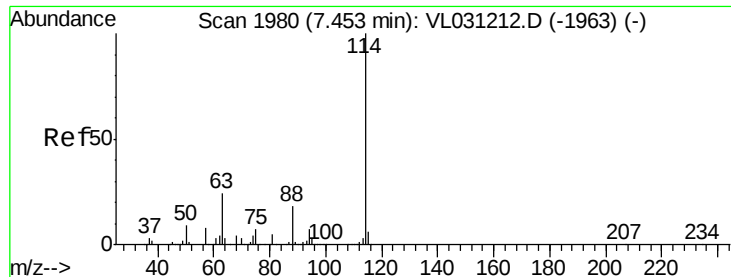
Delta R.T. -0.00 min

Lab File: VL031236.D

Acq: 14 Dec 2017 17:47

Tgt Ion:	97	Resp:	11125861
Ion	Ratio	Lower	Upper
97	100		
99	67.9	51.4	77.0
61	51.9	38.4	57.6





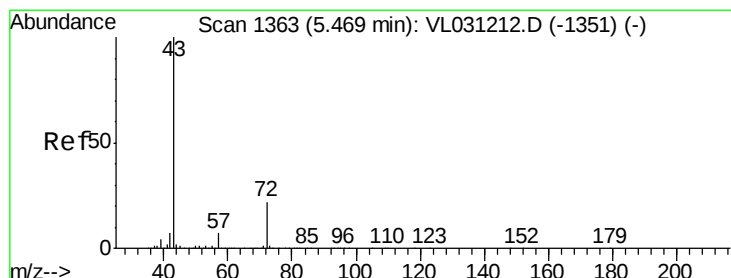
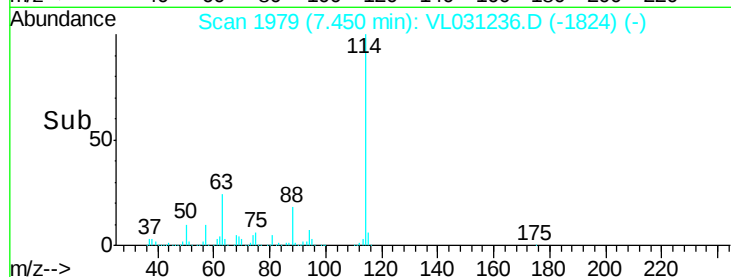
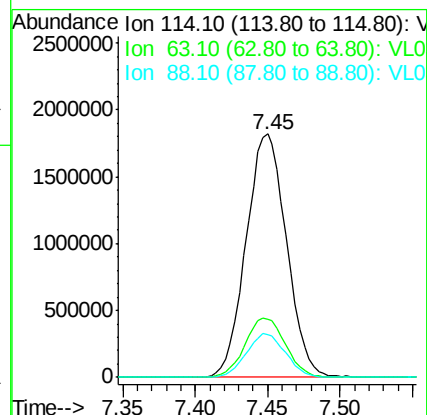
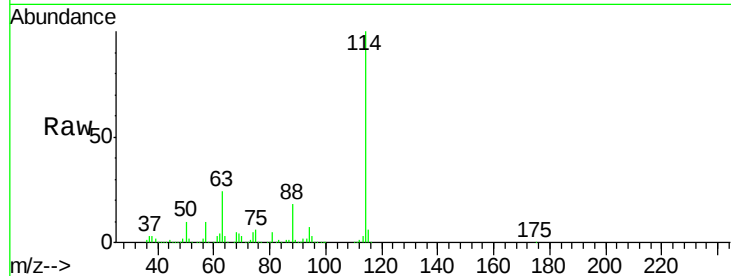
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.45 min Scan# 1979
 Delta R.T. -0.00 min
 Lab File: VL031236.D
 Acq: 14 Dec 2017 17:47

Instrument :
 MSVOA_L
 ClientSampleId :
 INFLUENT

Tgt Ion	Ratio	Lower	Upper
114	100		
63	24.5	19.8	29.8
88	17.6	14.2	21.4

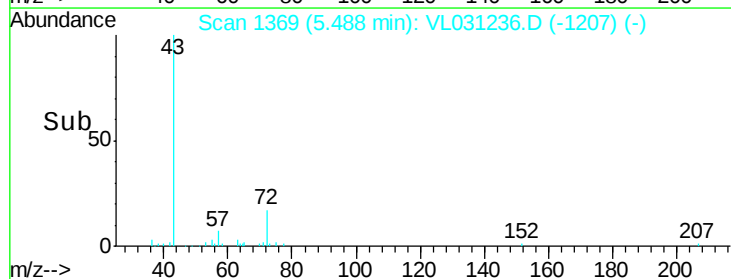
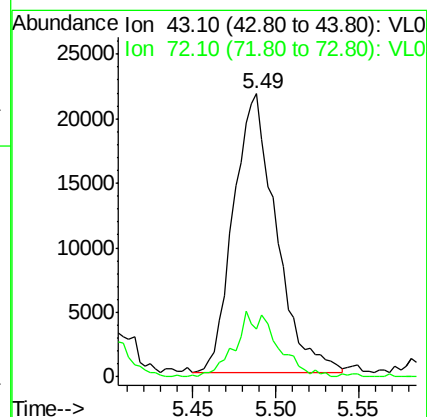
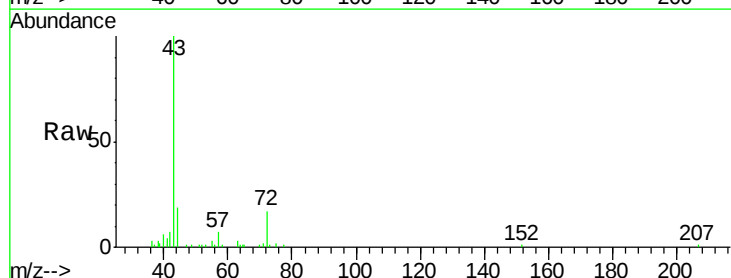
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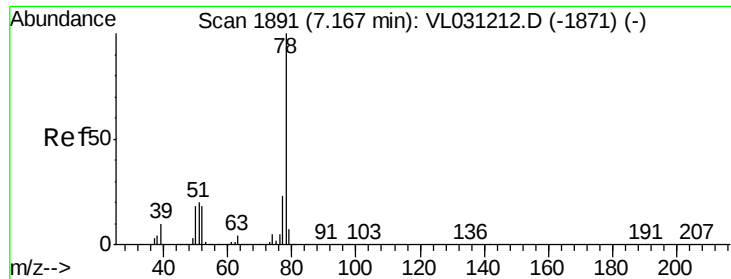
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#34
 2-Butanone
 Concen: 0.16 ppbv
 RT: 5.49 min Scan# 1369
 Delta R.T. 0.02 min
 Lab File: VL031236.D
 Acq: 14 Dec 2017 17:47

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.6	18.1	27.1





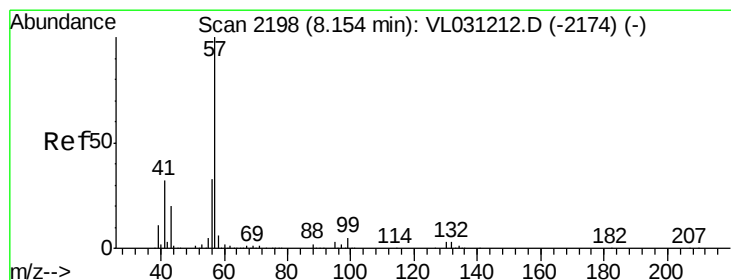
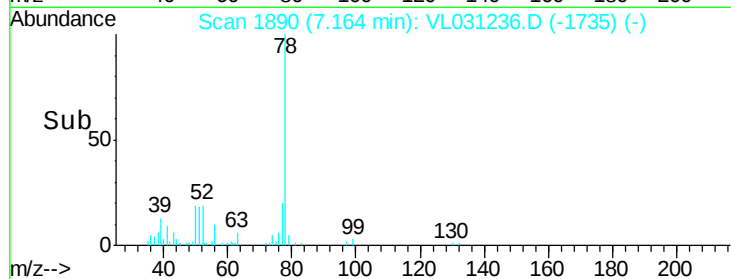
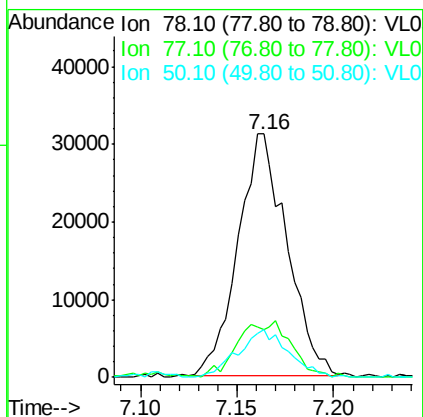
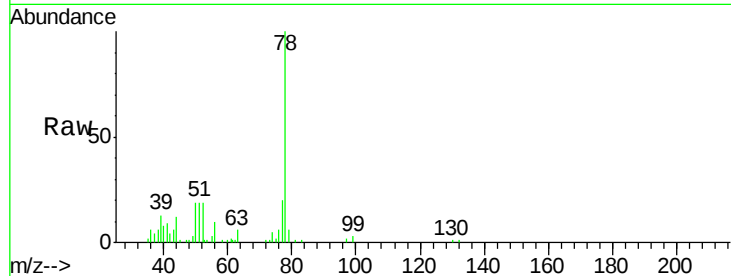
#36
Benzene
Concen: 0.15 ppbv
RT: 7.16 min Scan# 1890
Delta R.T. -0.00 min
Lab File: VL031236.D
Acq: 14 Dec 2017 17:47

Instrument :
MSVOA_L
ClientSampleId :
INFLUENT

Tgt Ion	Ratio	Lower	Upper
78	100		
77	18.9	18.1	27.1
50	19.5	14.6	21.8

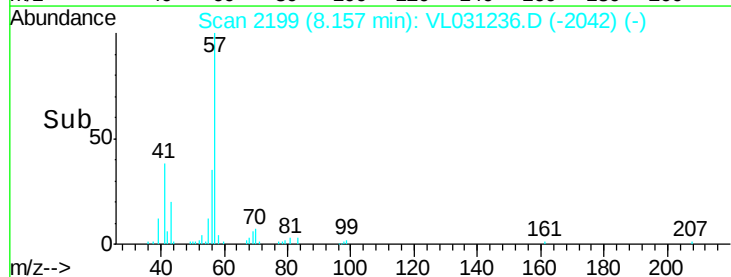
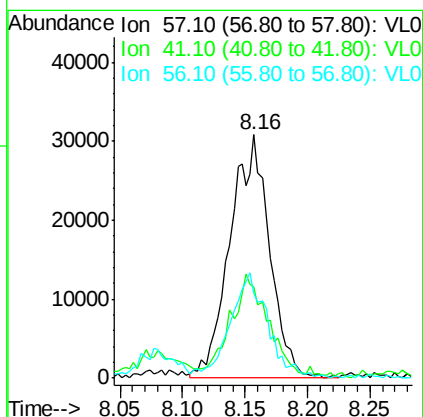
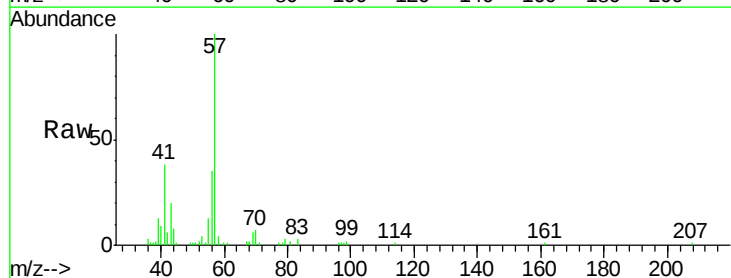
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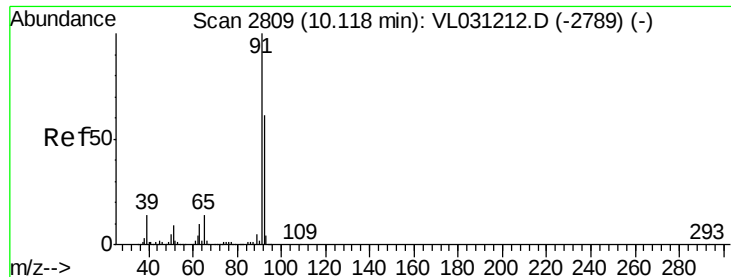
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#44
2,2,4-Trimethylpentane
Concen: 0.12 ppbv m
RT: 8.16 min Scan# 2199
Delta R.T. 0.00 min
Lab File: VL031236.D
Acq: 14 Dec 2017 17:47

Tgt Ion	Ratio	Lower	Upper
57	100		
41	38.3	25.5	38.3#
56	41.1	25.0	37.6#





#53

Toluene

Concen: 0.56 ppbv

RT: 10.12 min Scan# 2808

Delta R.T. -0.00 min

Lab File: VL031236.D

Acq: 14 Dec 2017 17:47

Instrument :

MSVOA_L

ClientSampled :

INFLUENT

Tgt Ion: 91 Resp: 228132

Ion Ratio Lower Upper

91 100

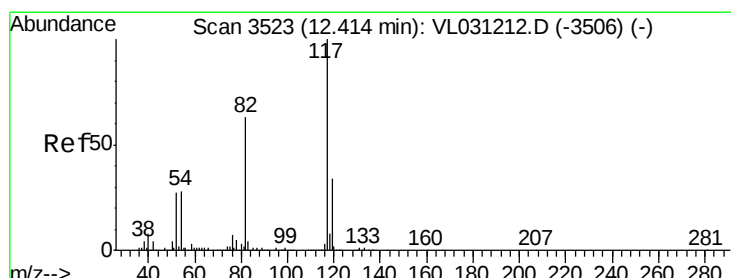
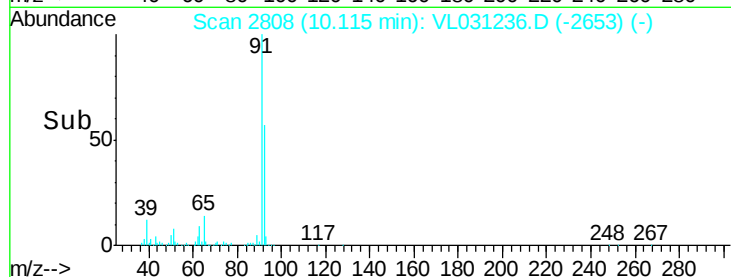
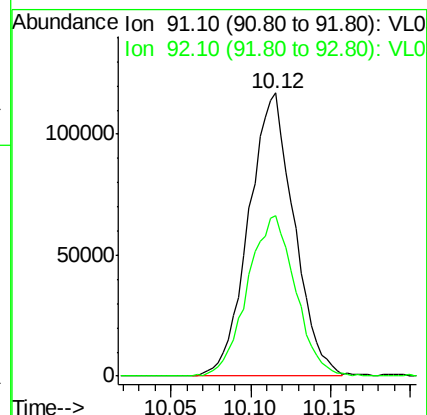
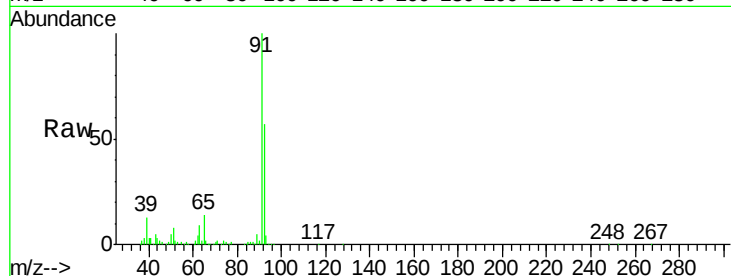
92 59.8 49.1 73.7

Manual Integrations

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#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.41 min Scan# 3521

Delta R.T. -0.01 min

Lab File: VL031236.D

Acq: 14 Dec 2017 17:47

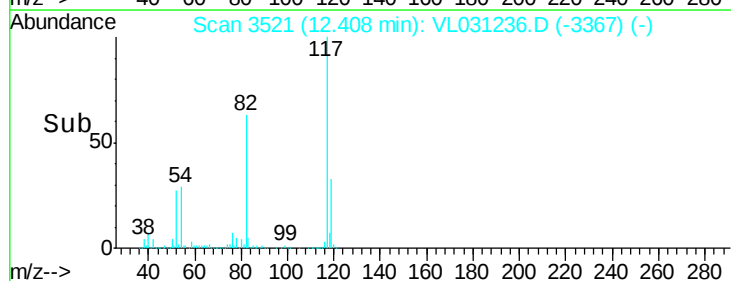
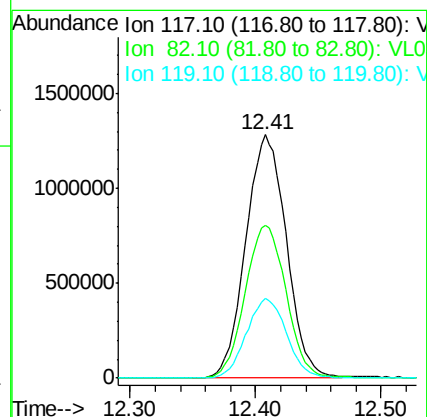
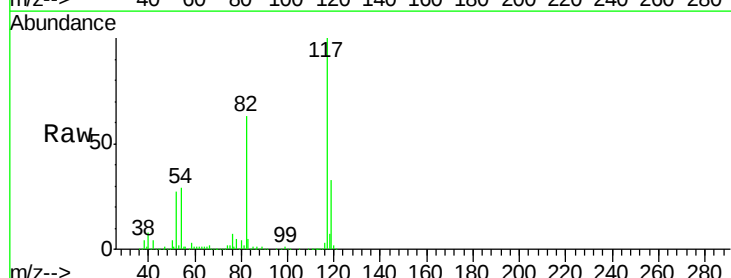
Tgt Ion: 117 Resp: 2875222

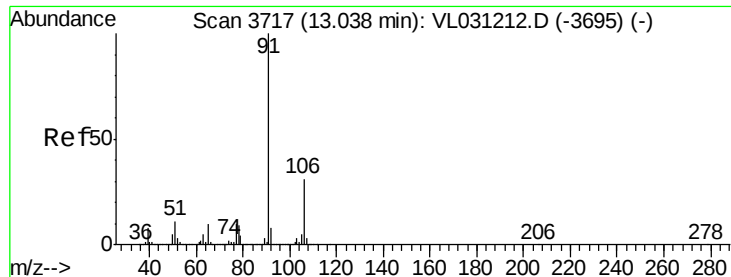
Ion Ratio Lower Upper

117 100

82 64.1 48.1 72.1

119 32.5 23.1 34.7





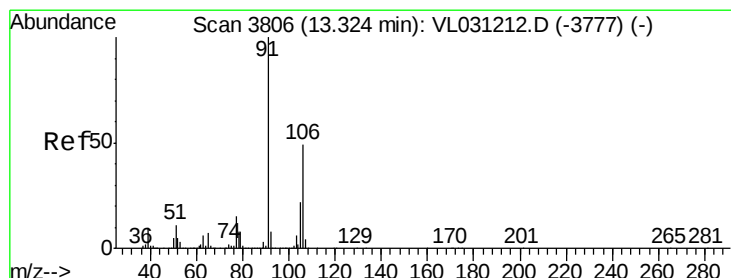
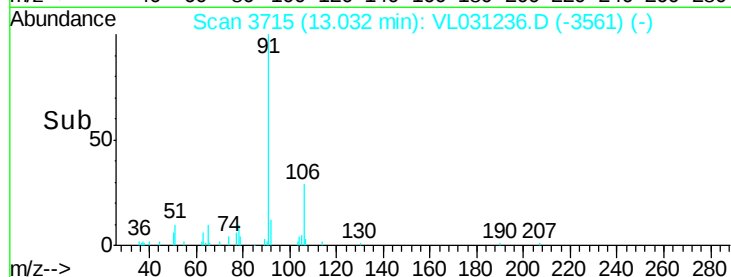
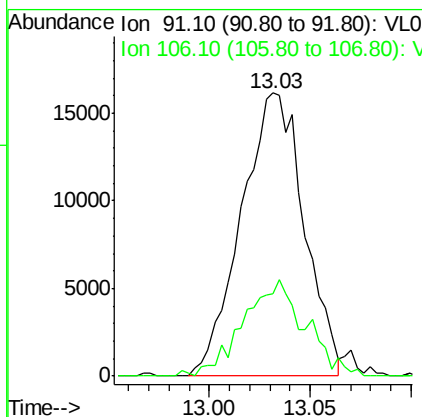
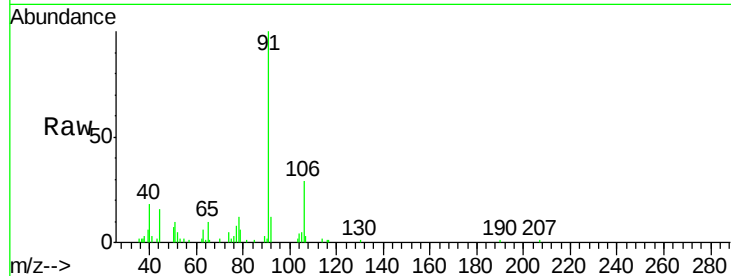
#58
Ethyl Benzene
Concen: 0.07 ppbv
RT: 13.03 min Scan# 3715
Delta R.T. -0.01 min
Lab File: VL031236.D
Acq: 14 Dec 2017 17:47

Instrument :
MSVOA_L
ClientSampleId :
INFLUENT

Tgt Ion: 91 Resp: 35059
Ion Ratio Lower Upper
91 100
106 27.9 25.1 37.7

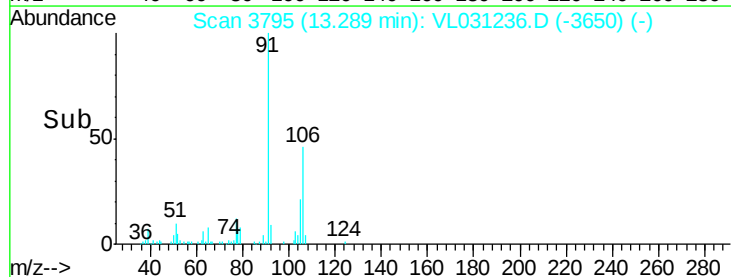
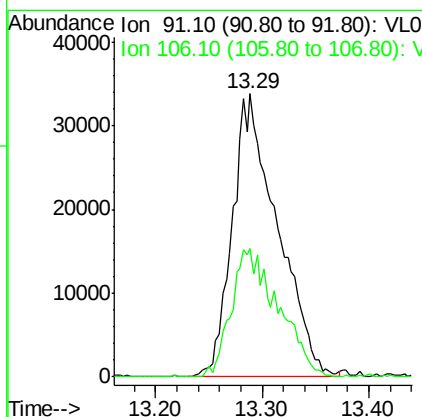
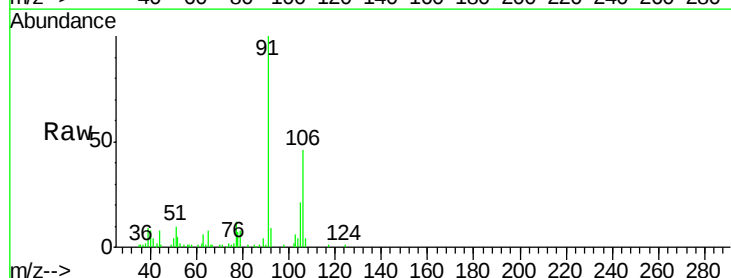
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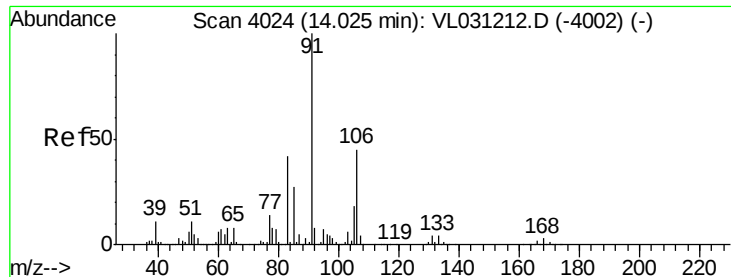
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#59
m/p-Xylene
Concen: 0.26 ppbv m
RT: 13.29 min Scan# 3795
Delta R.T. -0.04 min
Lab File: VL031236.D
Acq: 14 Dec 2017 17:47

Tgt Ion: 91 Resp: 99390
Ion Ratio Lower Upper
91 100
106 47.1 38.5 57.7





#60

o-Xylene

Concen: 0.09 ppbv m

RT: 14.02 min Scan# 4023

Delta R.T. -0.00 min

Lab File: VL031236.D

Acq: 14 Dec 2017 17:47

Instrument :

MSVOA_L

ClientSampleId :

INFLUENT

Tgt Ion: 91 Resp: 36085

Ion Ratio Lower Upper

91 100

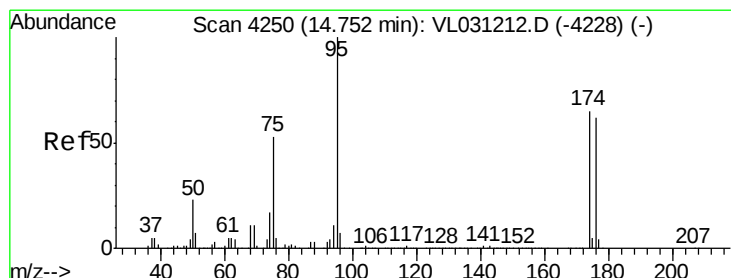
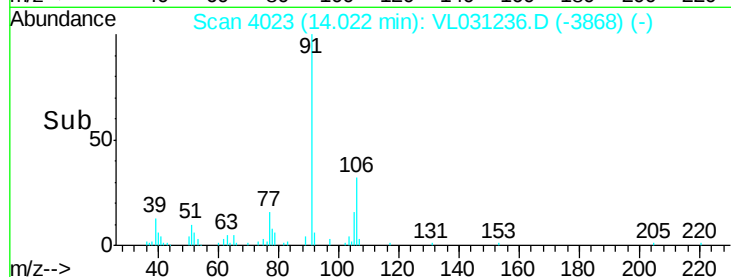
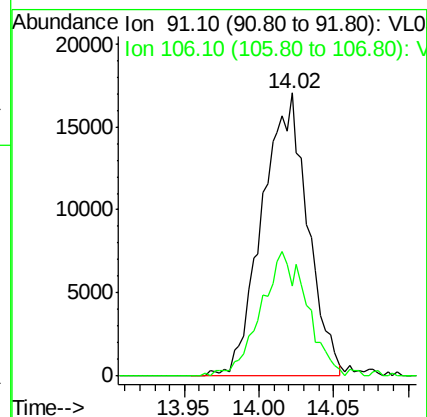
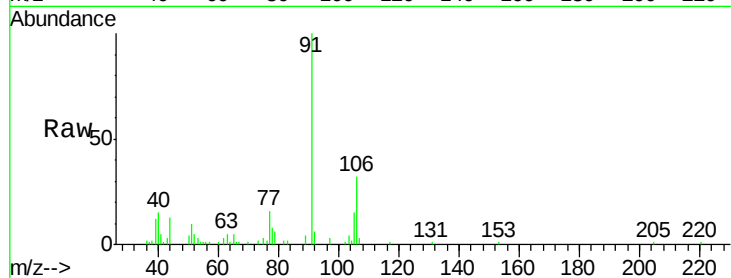
106 45.5 22.7 68.1

Manual Integrations

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#68

1-Bromo-4-Fluorobenzene

Concen: 11.57 ppbv

RT: 14.75 min Scan# 4248

Delta R.T. -0.01 min

Lab File: VL031236.D

Acq: 14 Dec 2017 17:47

Tgt Ion: 95 Resp: 2367061

Ion Ratio Lower Upper

95 100

174 63.2 52.5 78.7

175 4.6 4.1 6.1

