

Data File : VL032156.D
Acq On : 30 Jun 2018 5:15
Operator : SY/AP
Sample : J3601-01
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
OUTDOOR-1

Manual Integrations
APPROVED

MMDadoda
7/2/2018 4:25:23 PM

Quant Time: Jul 04 02:13:10 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL062918AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 2
QLast Update : Fri Jun 29 22:27:58 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.85	49	1650737	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.38	114	3901606	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.34	117	3529657	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.68	95	2638375m	9.78	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.80%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.13	85	71258	0.328	ppbv	91
3) Chlorodifluoromethane	3.07	51	90728	0.450	ppbv	97
4) Chloromethane	3.23	50	52726	0.490	ppbv	100
9) Propene	3.11	41	26367	0.280	ppbv #	78
10) Heptane	8.34	43	61386	0.224	ppbv	95
11) Trichlorofluoromethane	4.07	101	57048	0.243	ppbv #	81
13) Ethanol	3.75	45	130547m	4.581	ppbv	
15) Acetone	3.97	43	789725	4.091	ppbv	99
19) Isopropyl Alcohol	4.13	45	49993m	0.312	ppbv	
20) Methylene Chloride	4.48	84	391884	5.556	ppbv	95
26) Hexane	5.86	57	544051	2.958	ppbv #	48
30) Cyclohexane	7.34	84	26617m	0.154	ppbv	
34) 2-Butanone	5.41	43	138122	0.558	ppbv	98
35) Carbon Tetrachloride	7.23	117	21801m	0.082	ppbv	
36) Benzene	7.10	78	50048	0.133	ppbv #	82
44) 2,2,4-Trimethylpentane	8.09	57	103647m	0.157	ppbv	
50) 4-Methyl-2-Pentanone	9.00	43	51411m	0.127	ppbv	
52) Tetrachloroethene	11.48	164	12850m	0.094	ppbv	
53) Toluene	10.04	91	736237	1.613	ppbv	100
58) Ethyl Benzene	12.96	91	165618	0.291	ppbv	92
59) m/p-Xylene	13.22	91	325228m	0.713	ppbv	
60) o-Xylene	13.95	91	138712m	0.305	ppbv	
73) 1,3,5-Trimethylbenzene	16.25	105	62357m	0.113	ppbv	
74) 1,2,4-Trimethylbenzene	17.03	105	136209	0.244	ppbv #	71

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

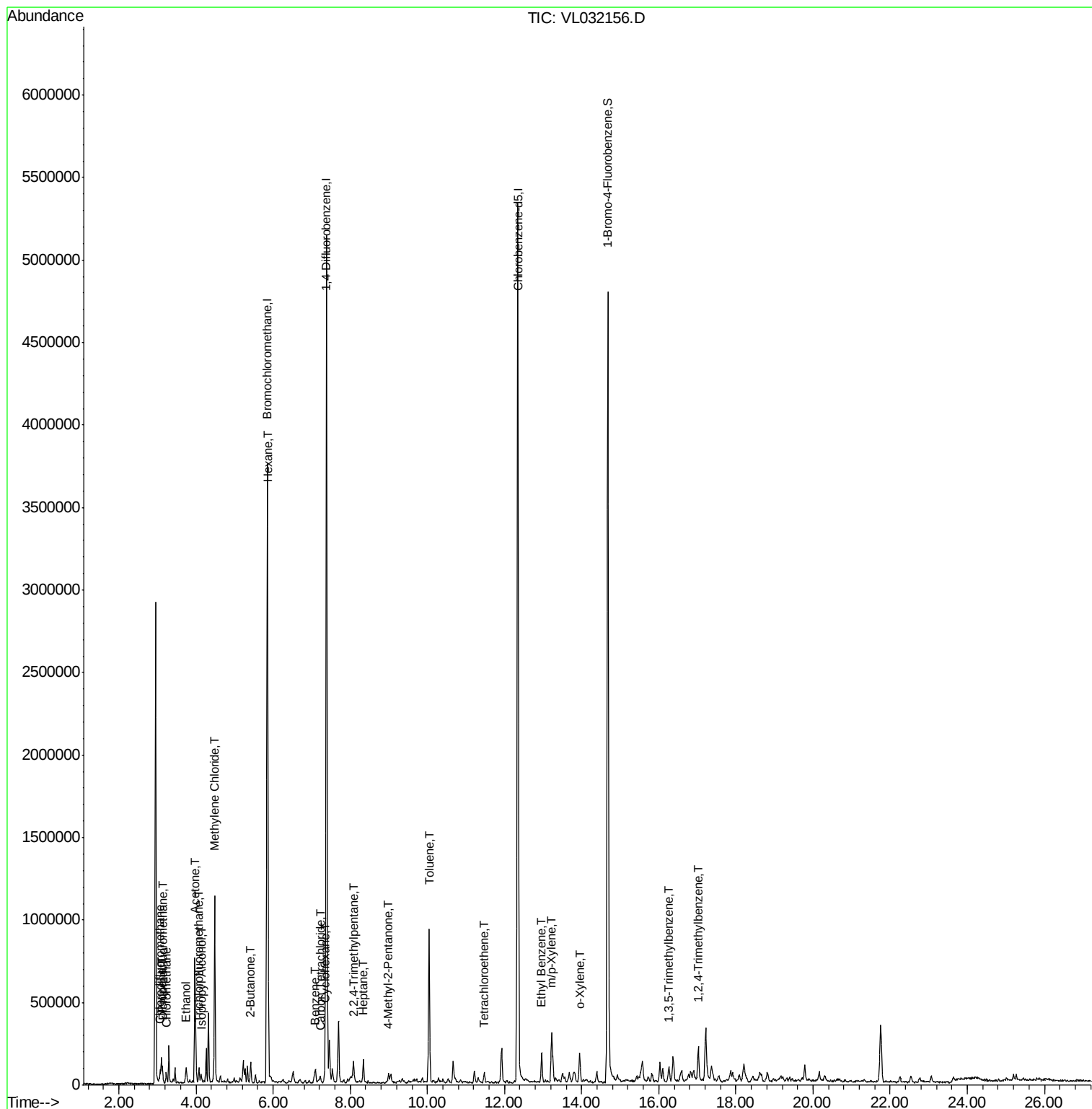
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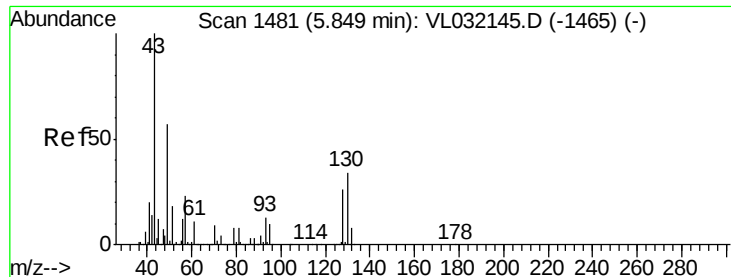
Instrument :
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Quant Time: Jul 04 02:13:10 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL062918AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.85 min Scan# 1480

Delta R.T. -0.02 min

Lab File: VL032156.D

Acq: 30 Jun 2018 5:15

Instrument :

MSVOA_L

ClientSampleId :

OUTDOOR-1

Tgt Ion: 49 Resp: 1650737

Ion Ratio Lower Upper

49 100

128 45.8 23.4 70.0

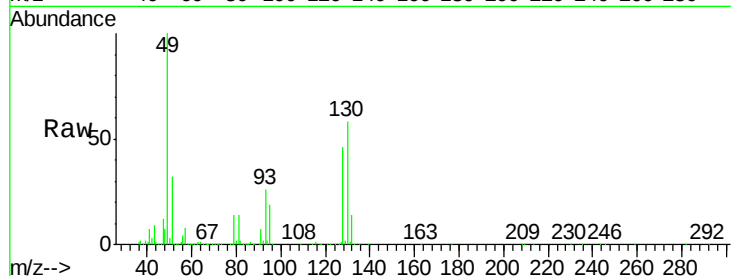
130 58.1 30.3 90.9

Manual Integrations

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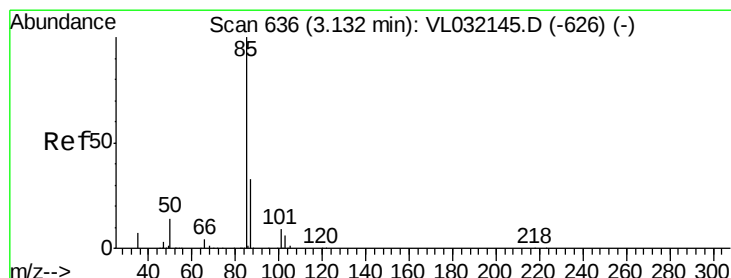
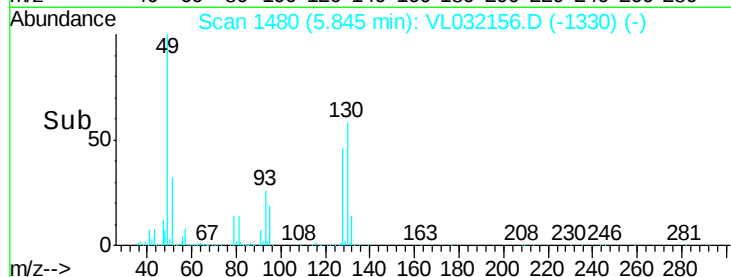
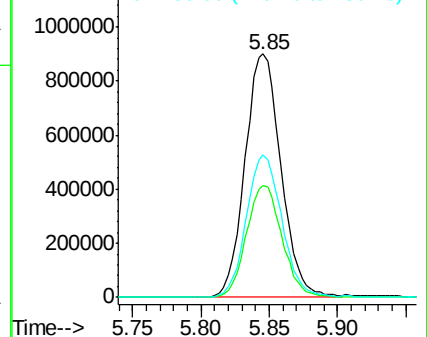
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.328 ppbv

RT: 3.13 min Scan# 637

Delta R.T. -0.01 min

Lab File: VL032156.D

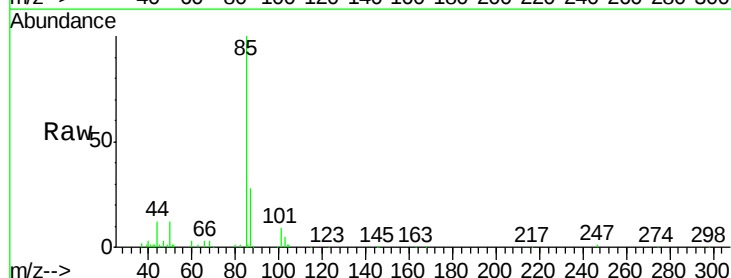
Acq: 30 Jun 2018 5:15

Tgt Ion: 85 Resp: 71258

Ion Ratio Lower Upper

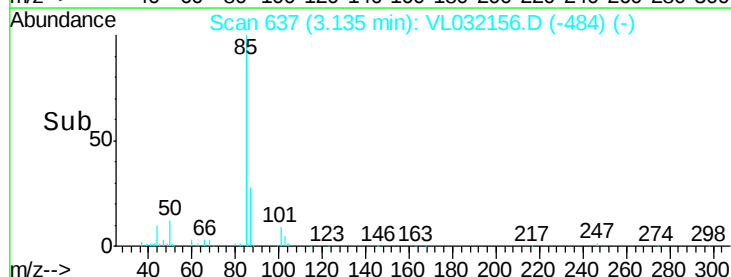
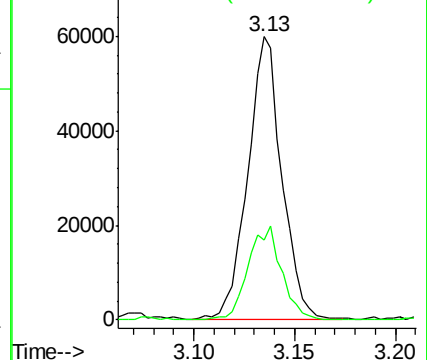
85 100

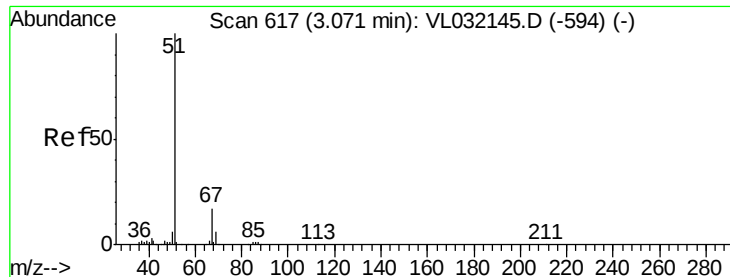
87 28.0 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.450 ppbv

RT: 3.07 min Scan# 618

Delta R.T. -0.00 min

Lab File: VL032156.D

Acq: 30 Jun 2018 5:15

Instrument :

MSVOA_L

ClientSampleId :

OUTDOOR-1

Tgt Ion: 51 Resp: 90728

Ion Ratio Lower Upper

51 100

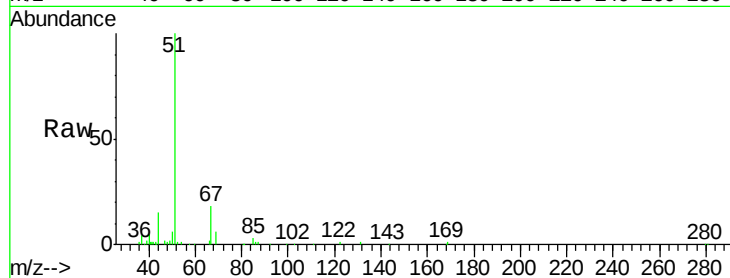
67 15.1 13.2 19.8

Manual Integrations

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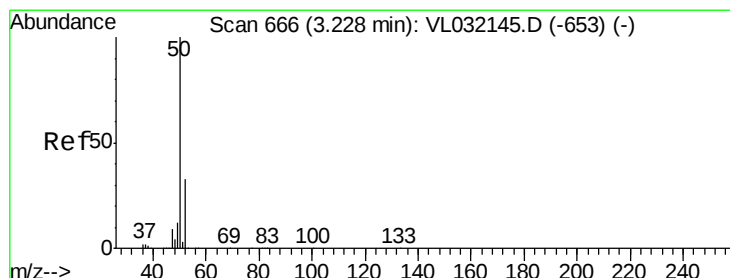
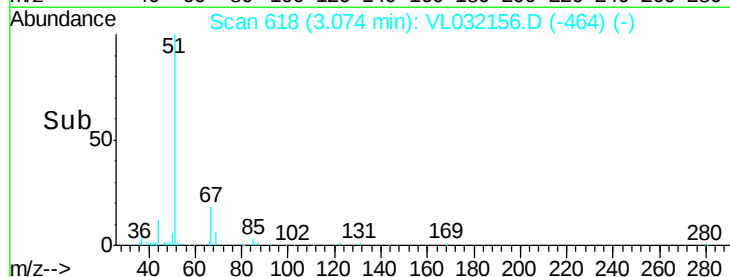
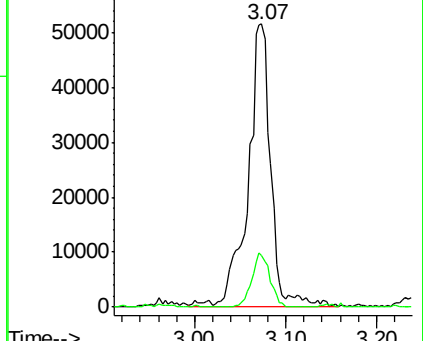
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.490 ppbv

RT: 3.23 min Scan# 667

Delta R.T. -0.01 min

Lab File: VL032156.D

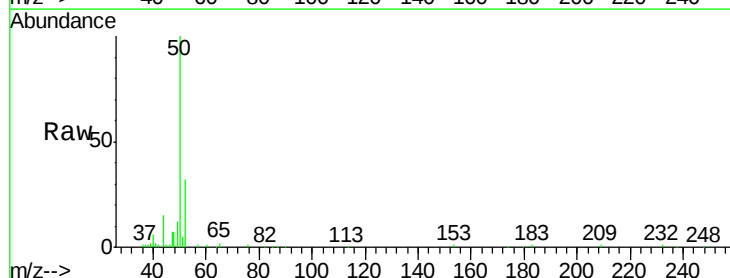
Acq: 30 Jun 2018 5:15

Tgt Ion: 50 Resp: 52726

Ion Ratio Lower Upper

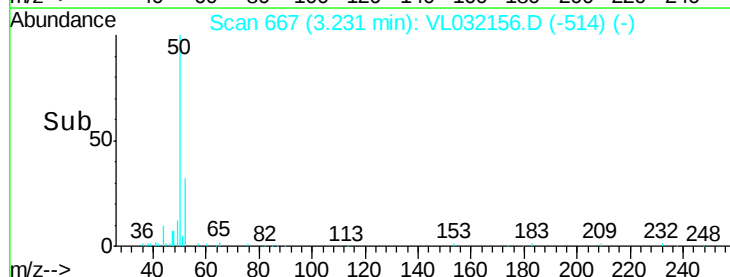
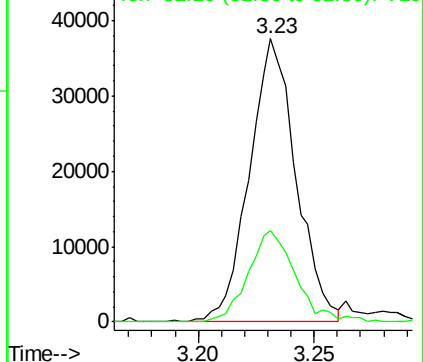
50 100

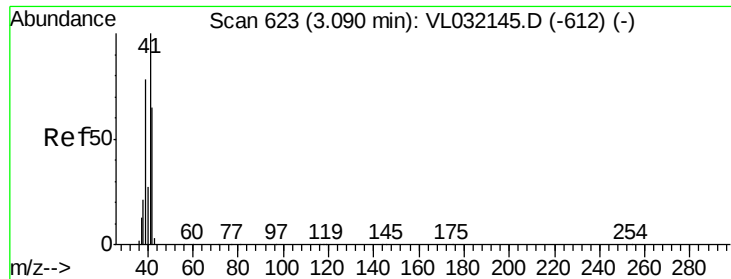
52 32.3 26.0 39.0



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.280 ppbv

RT: 3.11 min Scan# 628

Delta R.T. 0.01 min

Lab File: VL032156.D

Acq: 30 Jun 2018 5:15

Instrument :

MSVOA_L

ClientSampleId :

OUTDOOR-1

Tgt Ion: 41 Resp: 26367

Ion Ratio Lower Upper

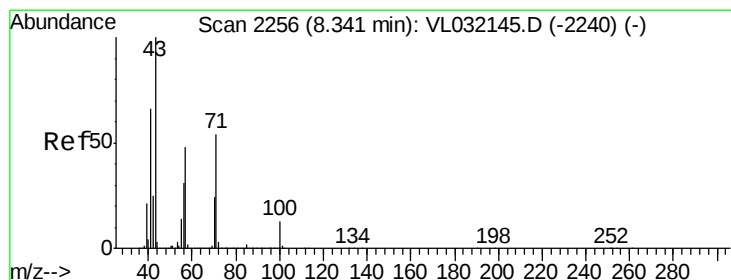
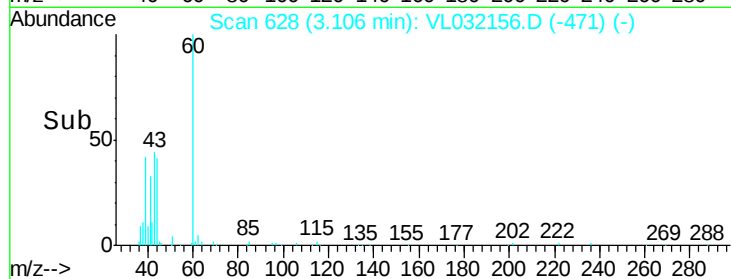
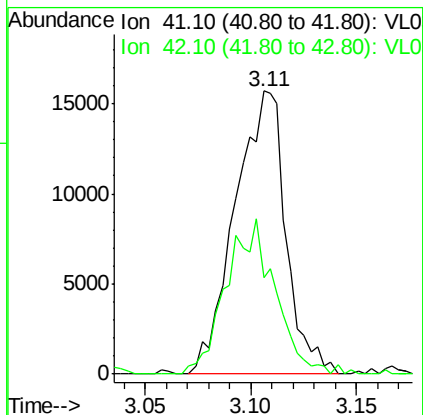
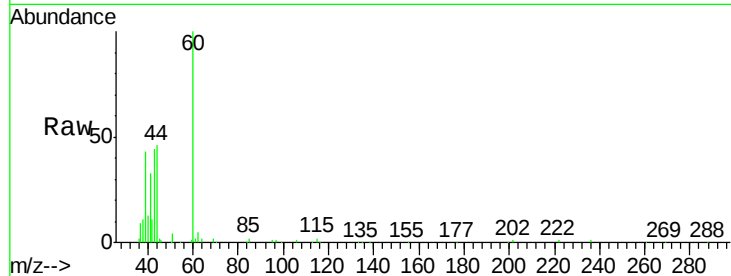
41 100

42 52.5 56.2 84.4#

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#10

Heptane

Concen: 0.224 ppbv

RT: 8.34 min Scan# 2256

Delta R.T. -0.02 min

Lab File: VL032156.D

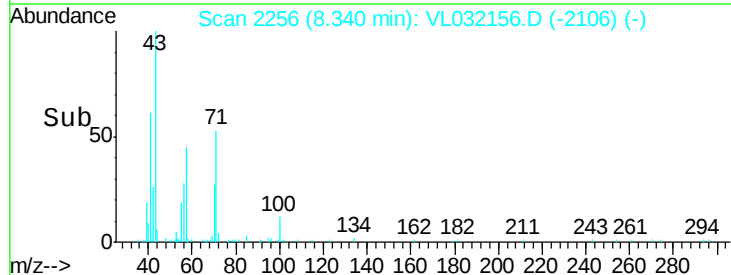
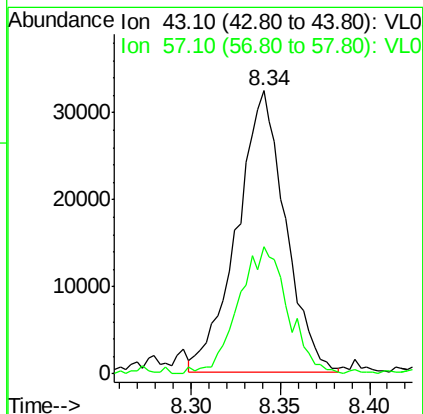
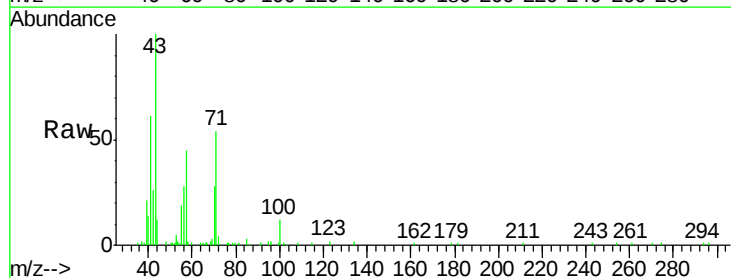
Acq: 30 Jun 2018 5:15

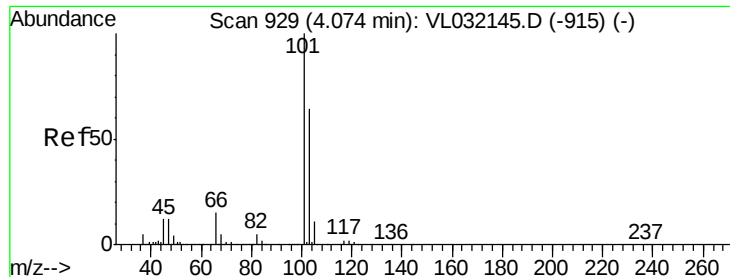
Tgt Ion: 43 Resp: 61386

Ion Ratio Lower Upper

43 100

57 46.5 39.8 59.8





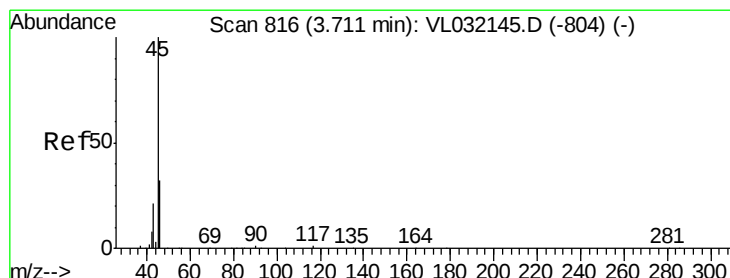
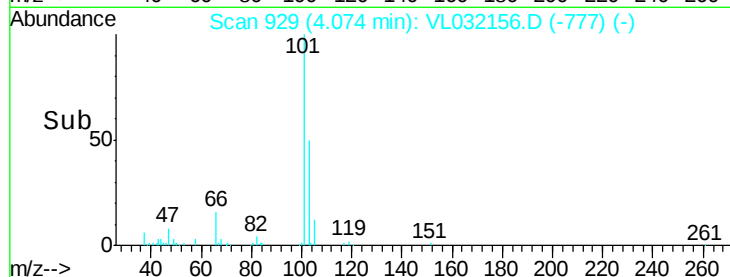
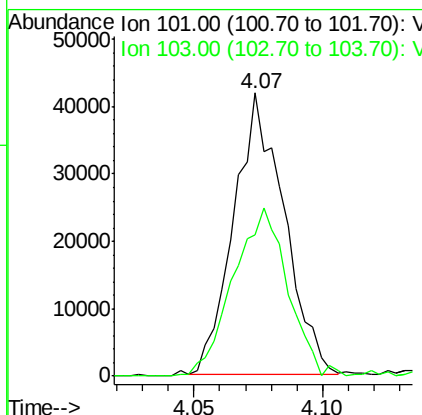
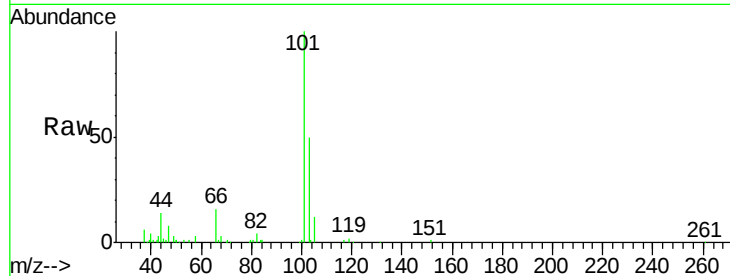
#11
 Trichlorofluoromethane
 Concen: 0.243 ppbv
 RT: 4.07 min Scan# 929
 Delta R.T. -0.01 min
 Lab File: VL032156.D
 Acq: 30 Jun 2018 5:15

Instrument :
 MSVOA_L
 ClientSampleId :
 OUTDOOR-1

Tgt Ion: 101 Resp: 57048
 Ion Ratio Lower Upper
 101 100
 103 49.6 51.4 77.0#

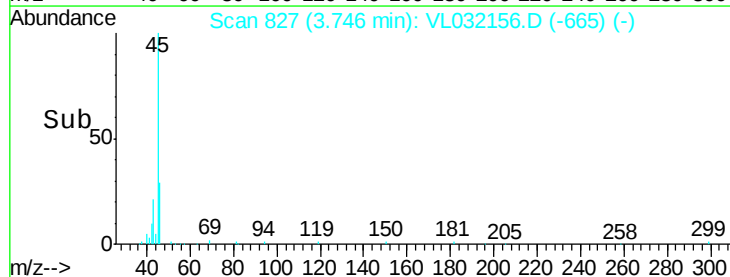
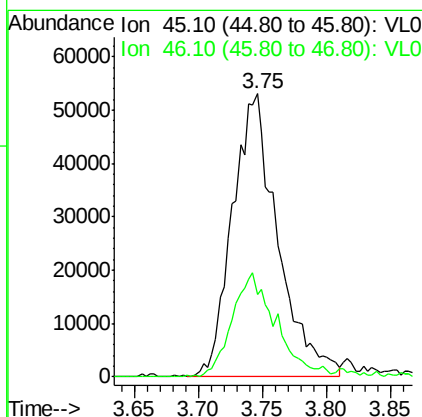
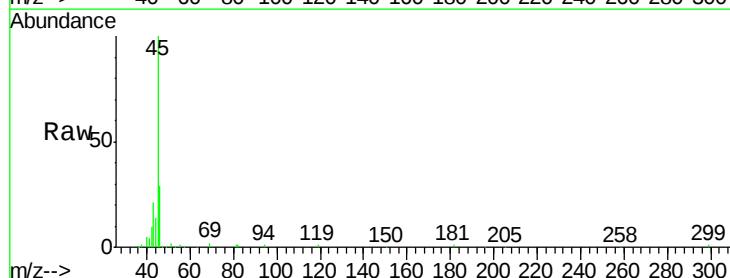
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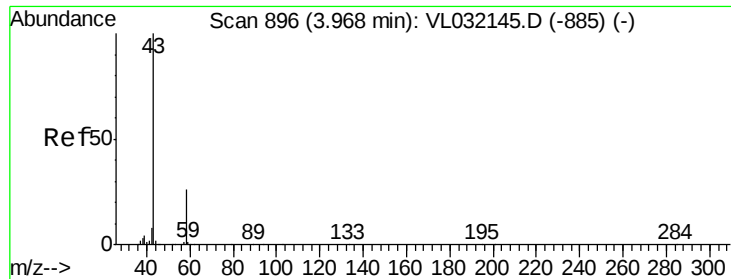
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#13
 Ethanol
 Concen: 4.581 ppbv m
 RT: 3.75 min Scan# 827
 Delta R.T. 0.02 min
 Lab File: VL032156.D
 Acq: 30 Jun 2018 5:15

Tgt Ion: 45 Resp: 130547
 Ion Ratio Lower Upper
 45 100
 46 36.9 14.6 58.4





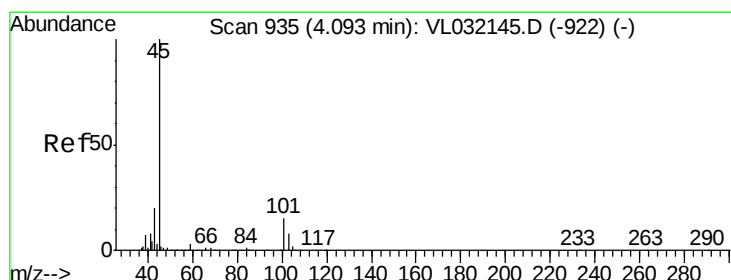
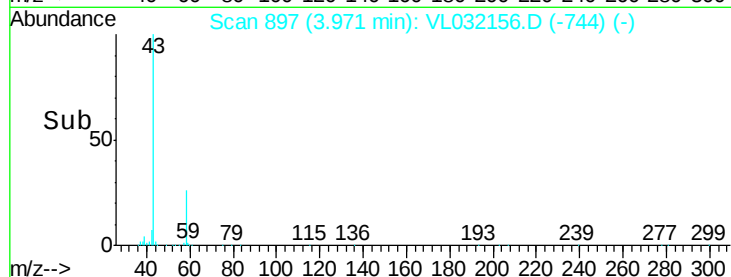
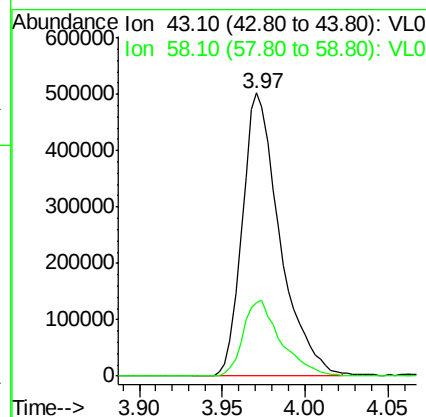
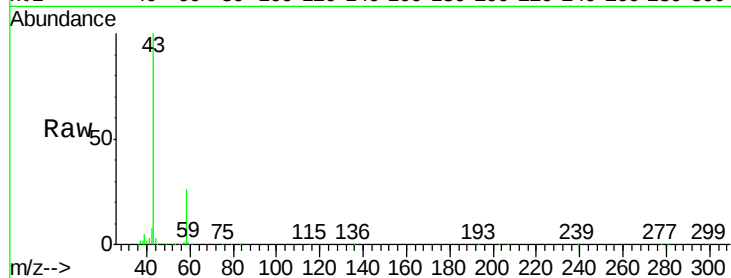
#15
Acetone
Concen: 4.091 ppbv
RT: 3.97 min Scan# 897
Delta R.T. -0.01 min
Lab File: VL032156.D
Acq: 30 Jun 2018 5:15

Instrument :
MSVOA_L
ClientSampleId :
OUTDOOR-1

Tgt Ion: 43 Resp: 789725
Ion Ratio Lower Upper
43 100
58 27.1 21.4 32.0

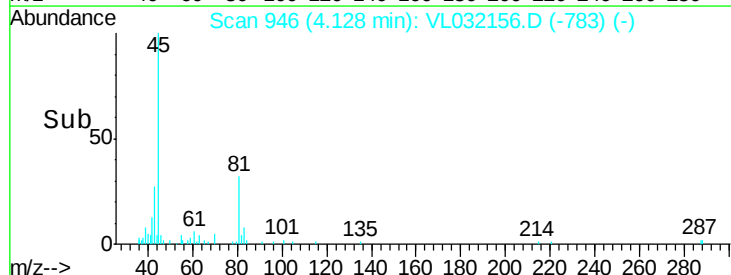
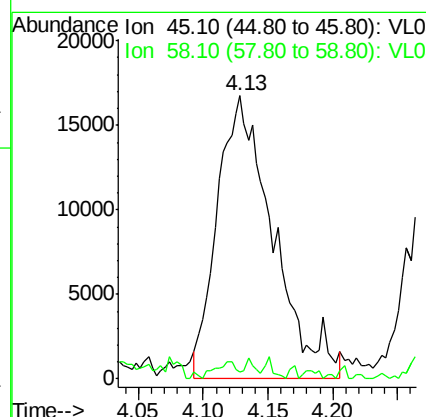
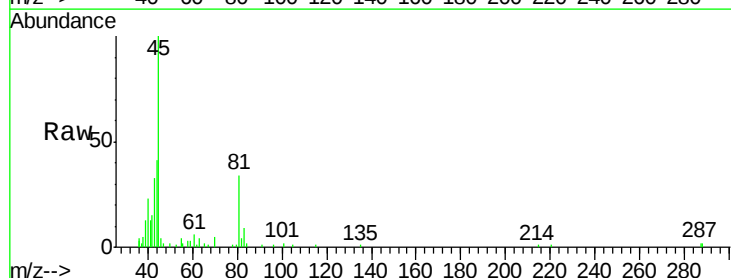
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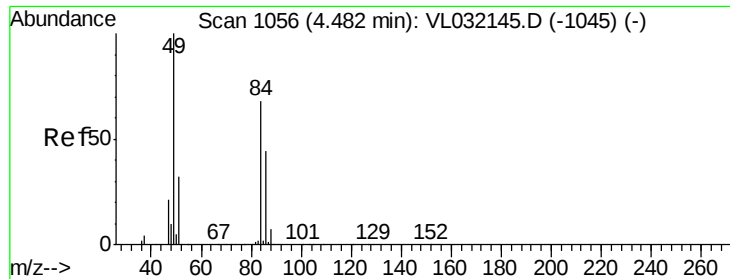
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#19
Isopropyl Alcohol
Concen: 0.312 ppbv m
RT: 4.13 min Scan# 946
Delta R.T. 0.03 min
Lab File: VL032156.D
Acq: 30 Jun 2018 5:15

Tgt Ion: 45 Resp: 49993
Ion Ratio Lower Upper
45 100
58 0.0 29.4 44.0#





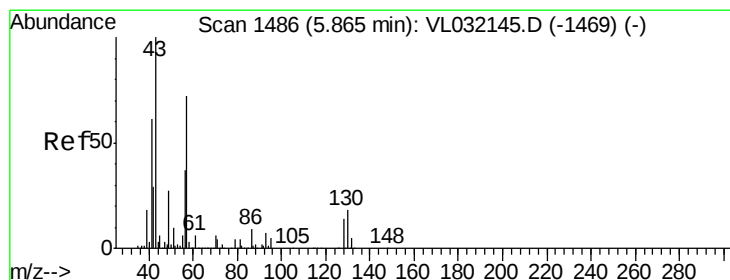
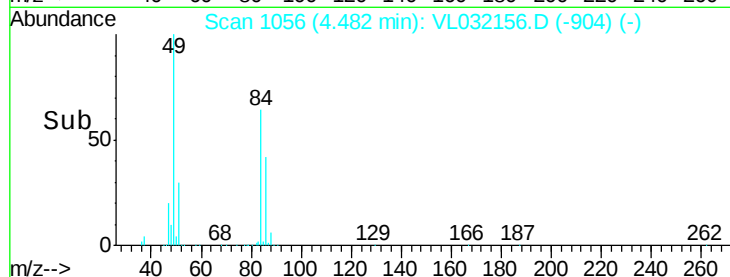
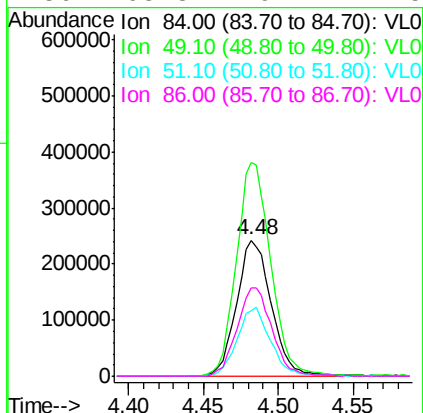
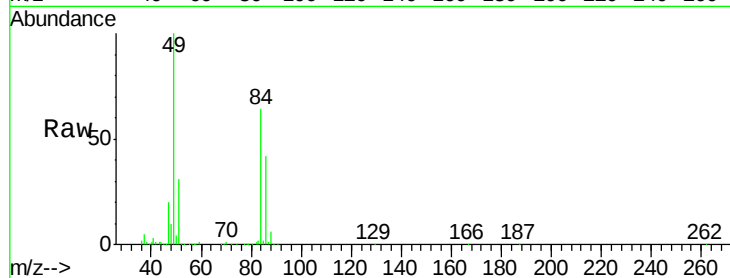
#20
Methylene Chloride
Concen: 5.556 ppbv
RT: 4.48 min Scan# 1056
Delta R.T. -0.01 min
Lab File: VL032156.D
Acq: 30 Jun 2018 5:15

Instrument :
MSVOA_L
ClientSampleId :
OUTDOOR-1

Tgt Ion	Ratio	Resp	Lower	Upper
84	100			
49	157.1	391884	119.6	179.4
51	48.2		36.3	54.5
86	65.3		49.7	74.5

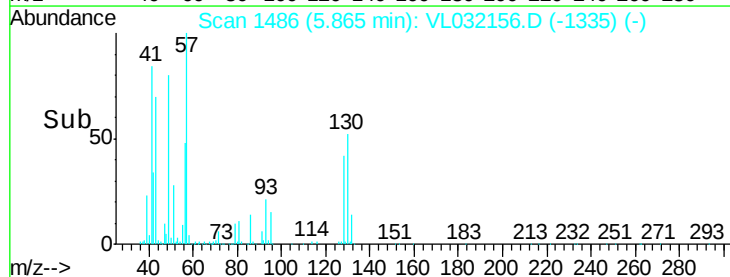
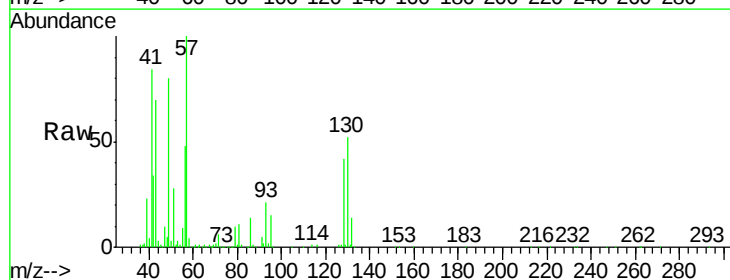
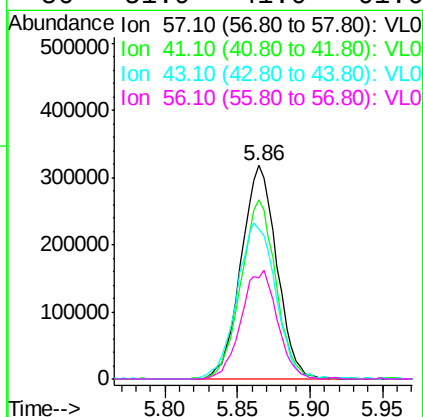
Manual Integrations
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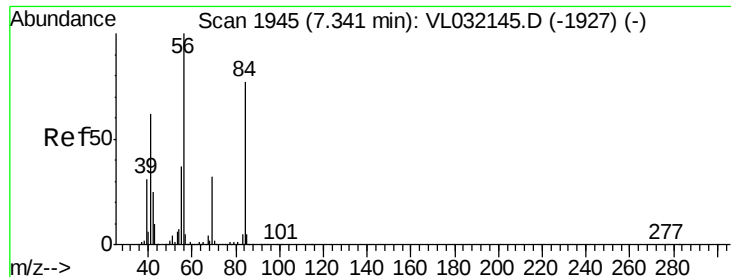
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#26
Hexane
Concen: 2.958 ppbv
RT: 5.86 min Scan# 1486
Delta R.T. -0.01 min
Lab File: VL032156.D
Acq: 30 Jun 2018 5:15

Tgt Ion	Ratio	Resp	Lower	Upper
57	100	544051		
41	82.7		68.6	103.0
43	79.1		168.6	252.8#
56	51.9		41.0	61.6





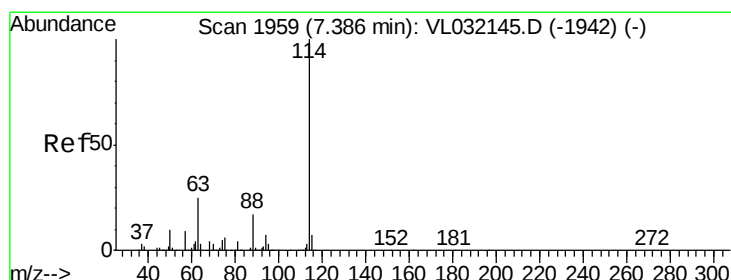
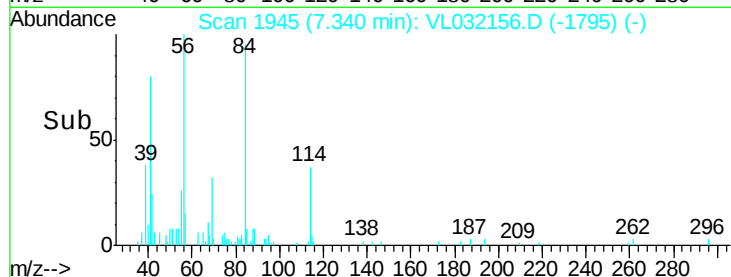
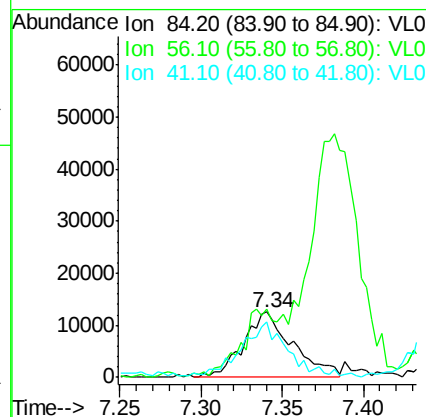
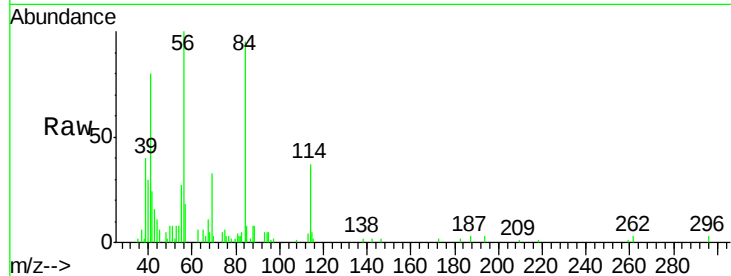
#30
Cyclohexane
Concen: 0.154 ppbv m
RT: 7.34 min Scan# 1945
Delta R.T. -0.02 min
Lab File: VL032156.D
Acq: 30 Jun 2018 5:15

Instrument :
MSVOA_L
ClientSampleId :
OUTDOOR-1

Tgt Ion	Ratio	Lower	Upper
84	100		
56	0.0	109.1	163.7#
41	76.7	64.6	96.8

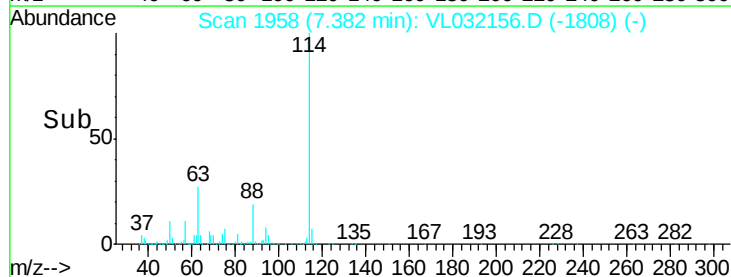
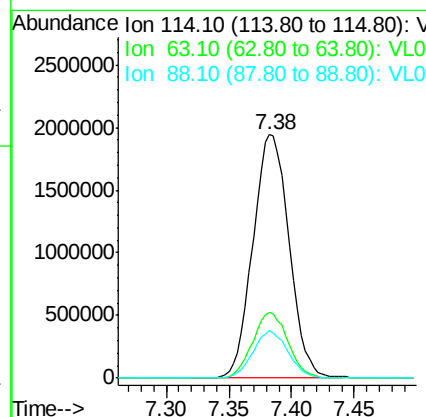
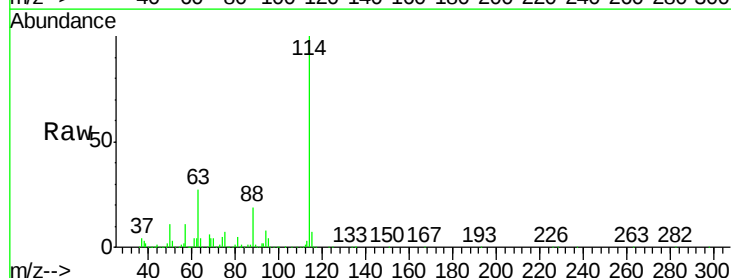
Manual Integrations
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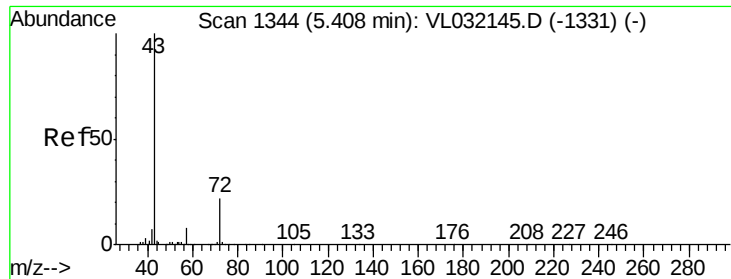
MMDadoda
7/2/2018 4:25:23 PM



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.38 min Scan# 1958
Delta R.T. -0.02 min
Lab File: VL032156.D
Acq: 30 Jun 2018 5:15

Tgt Ion	Ratio	Lower	Upper
114	100		
63	26.4	19.1	28.7
88	18.8	13.9	20.9





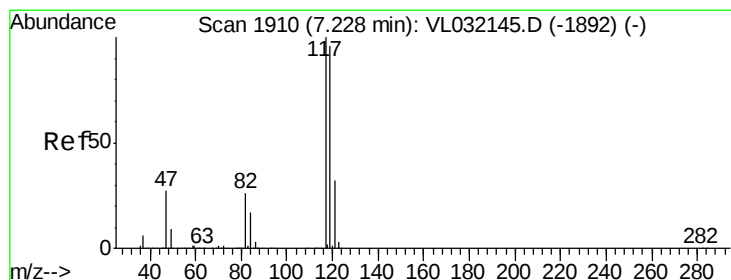
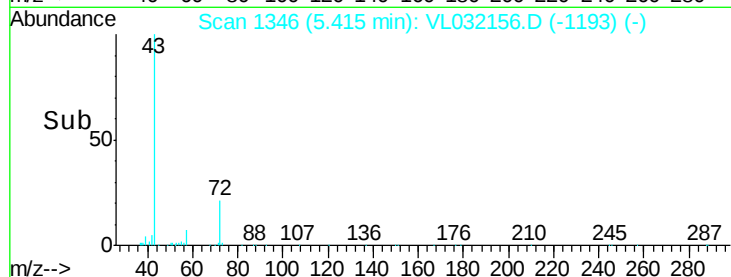
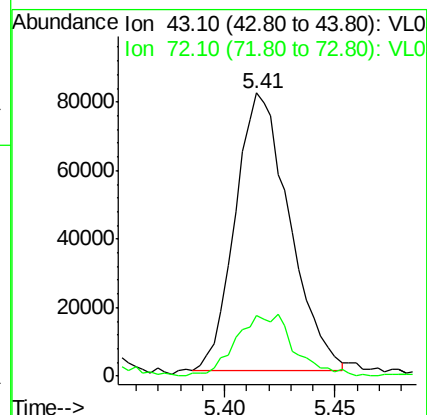
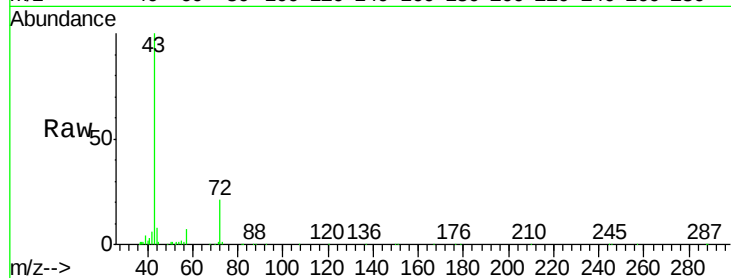
#34
2-Butanone
Concen: 0.558 ppbv
RT: 5.41 min Scan# 1346
Delta R.T. -0.01 min
Lab File: VL032156.D
Acq: 30 Jun 2018 5:15

Instrument :
MSVOA_L
ClientSampleId :
OUTDOOR-1

Tgt Ion: 43 Resp: 138122
Ion Ratio Lower Upper
43 100
72 23.9 18.4 27.6

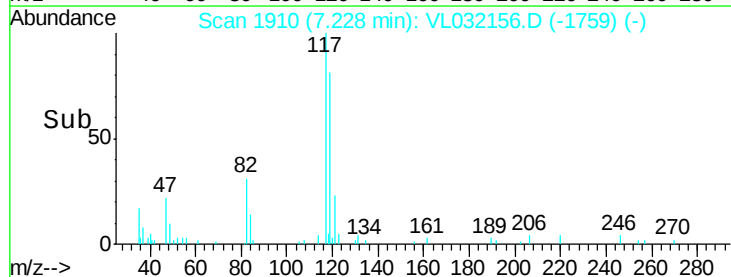
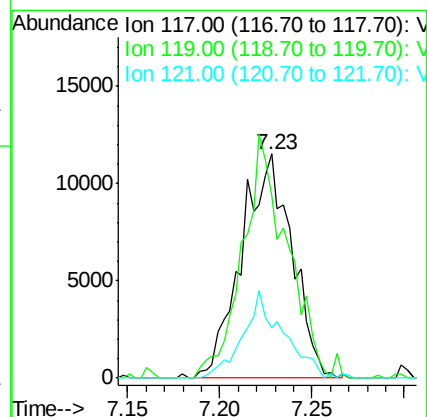
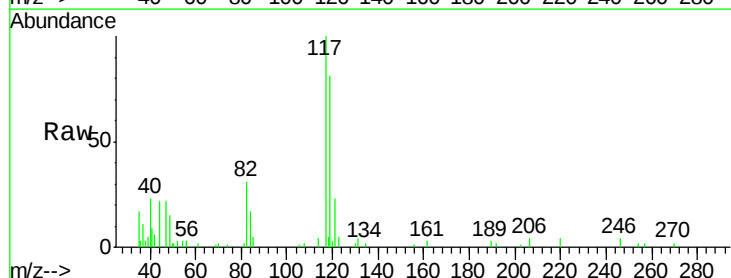
Manual Integrations
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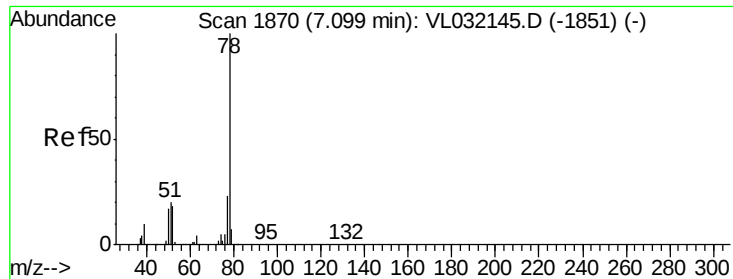
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#35
Carbon Tetrachloride
Concen: 0.082 ppbv m
RT: 7.23 min Scan# 1910
Delta R.T. -0.01 min
Lab File: VL032156.D
Acq: 30 Jun 2018 5:15

Tgt Ion: 117 Resp: 21801
Ion Ratio Lower Upper
117 100
119 81.1 74.8 112.2
121 22.6 24.0 36.0#





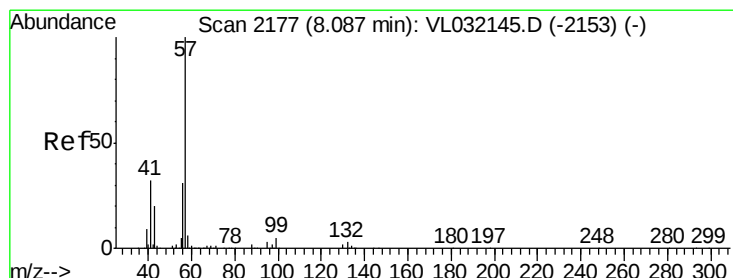
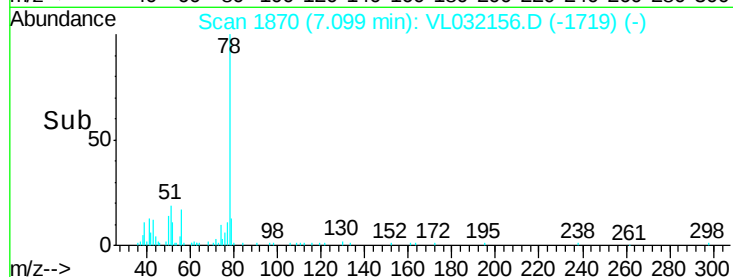
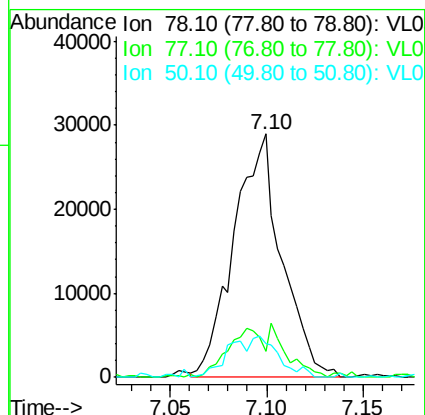
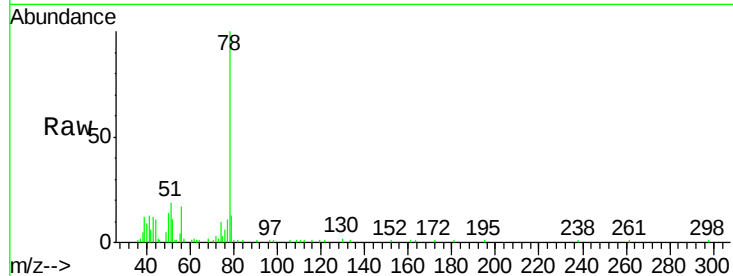
#36
Benzene
Concen: 0.133 ppbv
RT: 7.10 min Scan# 1870
Delta R.T. -0.01 min
Lab File: VL032156.D
Acq: 30 Jun 2018 5:15

Instrument :
MSVOA_L
ClientSampleId :
OUTDOOR-1

Tgt Ion	Ratio	Lower	Upper
78	100		
77	9.4	17.7	26.5#
50	14.0	14.0	21.0

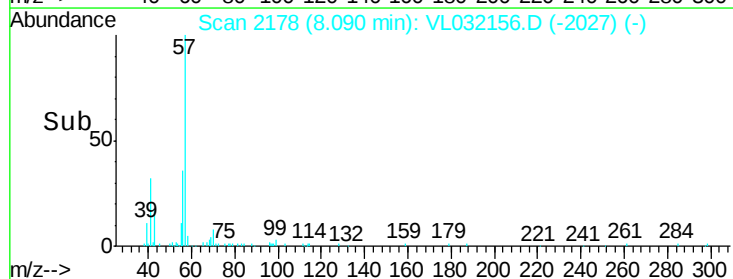
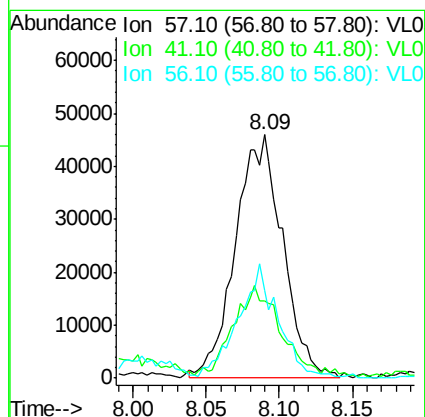
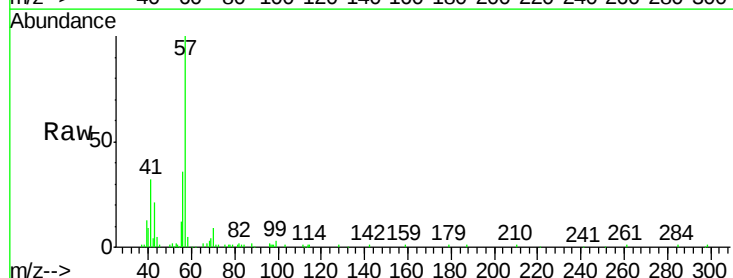
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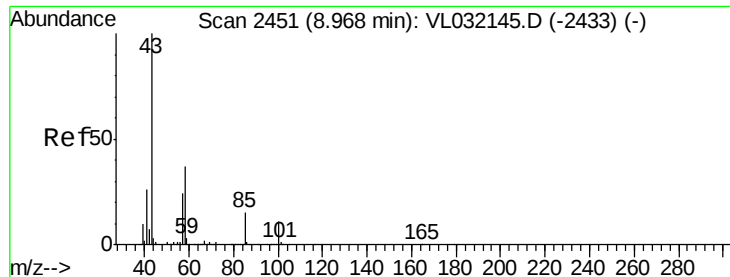
MMDadoda
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#44
2,2,4-Trimethylpentane
Concen: 0.157 ppbv m
RT: 8.09 min Scan# 2178
Delta R.T. -0.01 min
Lab File: VL032156.D
Acq: 30 Jun 2018 5:15

Tgt Ion	Ratio	Lower	Upper
57	100		
41	37.4	24.3	36.5#
56	0.0	25.1	37.7#





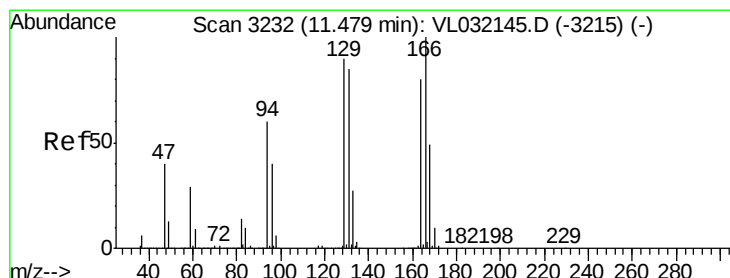
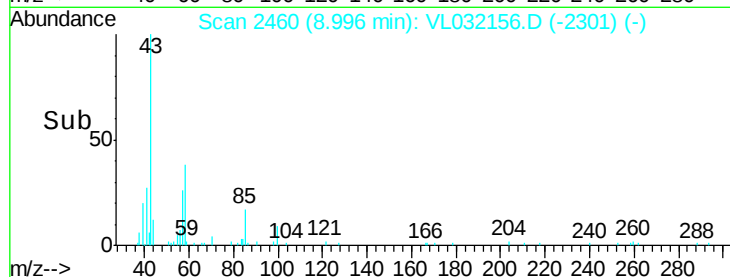
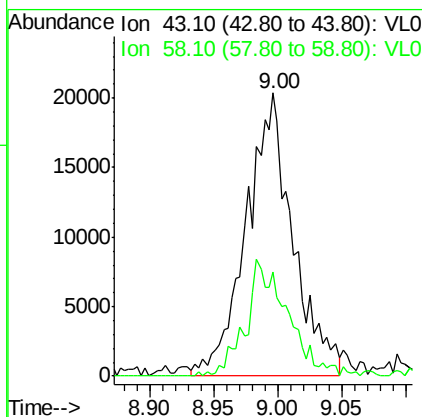
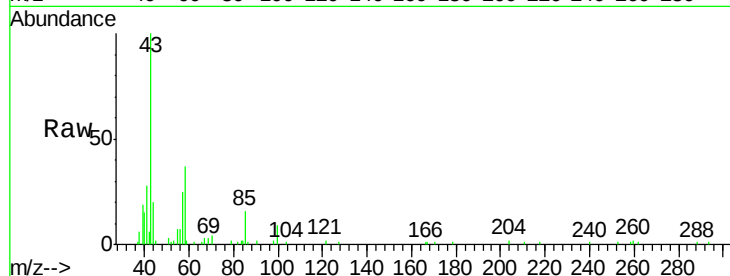
#50
4-Methyl-2-Pentanone
Concen: 0.127 ppbv m
RT: 9.00 min Scan# 2460
Delta R.T. 0.01 min
Lab File: VL032156.D
Acq: 30 Jun 2018 5:15

Instrument :
MSVOA_L
ClientSampleId :
OUTDOOR-1

Tgt Ion: 43 Resp: 51411
Ion Ratio Lower Upper
43 100
58 37.1 29.8 44.6

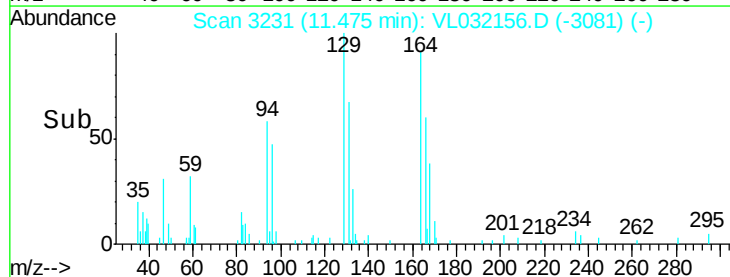
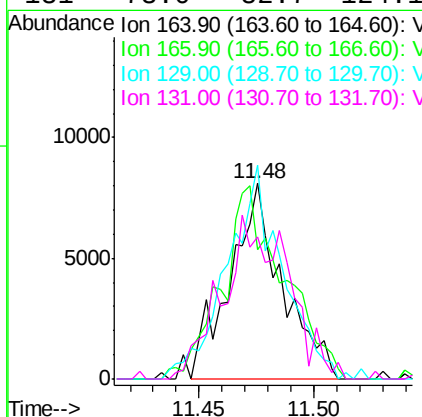
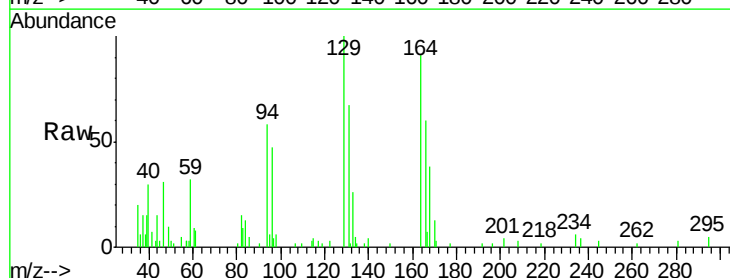
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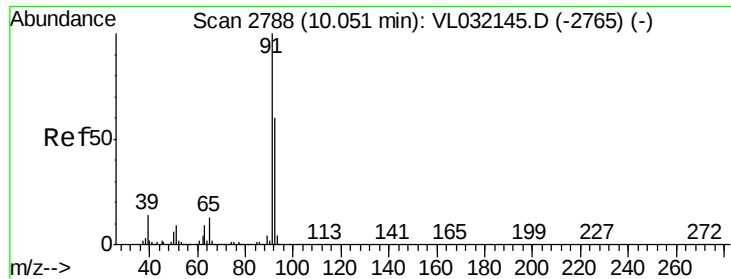
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#52
Tetrachloroethene
Concen: 0.094 ppbv m
RT: 11.48 min Scan# 3231
Delta R.T. -0.02 min
Lab File: VL032156.D
Acq: 30 Jun 2018 5:15

Tgt Ion: 164 Resp: 12850
Ion Ratio Lower Upper
164 100
166 66.1 100.6 151.0#
129 109.3 84.0 126.0
131 73.0 82.7 124.1#





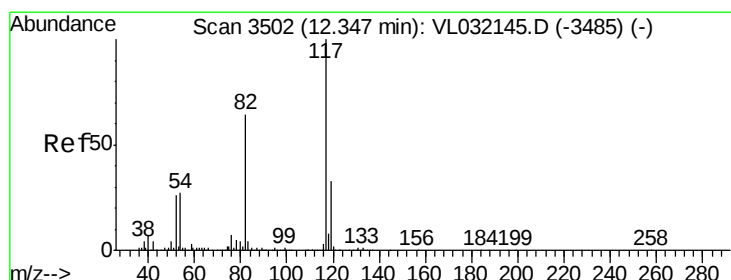
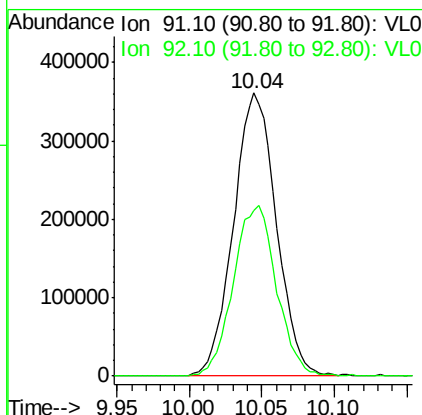
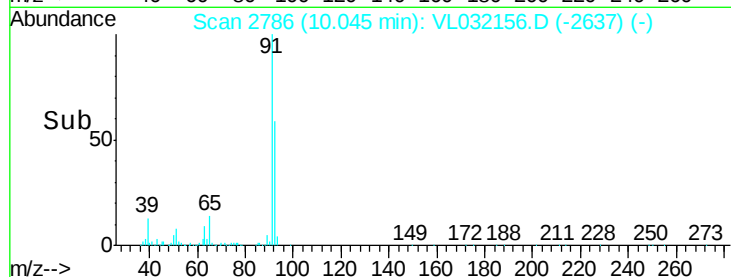
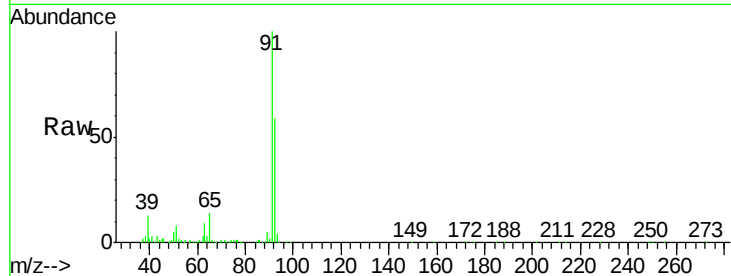
#53
Toluene
Concen: 1.613 ppbv
RT: 10.04 min Scan# 2786
Delta R.T. -0.02 min
Lab File: VL032156.D
Acq: 30 Jun 2018 5:15

Instrument :
MSVOA_L
ClientSampleId :
OUTDOOR-1

Tgt Ion: 91 Resp: 736237
Ion Ratio Lower Upper
91 100
92 61.3 49.2 73.8

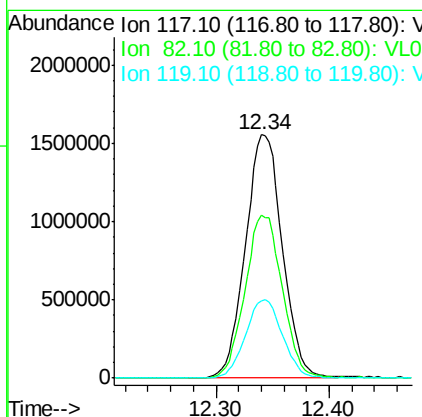
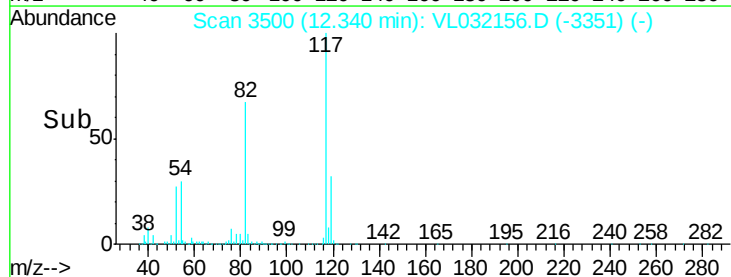
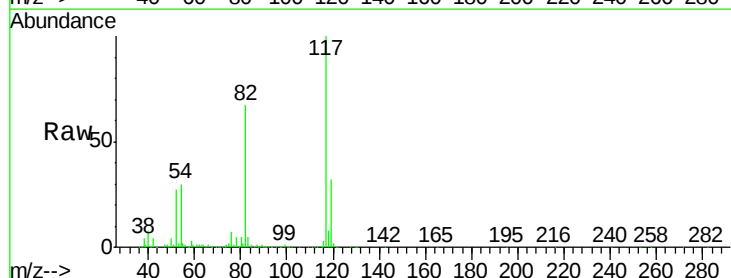
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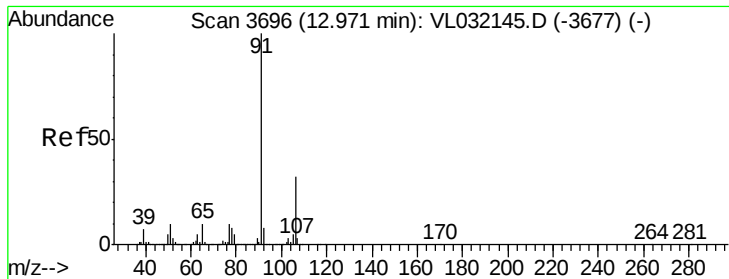
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#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.34 min Scan# 3500
Delta R.T. -0.02 min
Lab File: VL032156.D
Acq: 30 Jun 2018 5:15

Tgt Ion: 117 Resp: 3529657
Ion Ratio Lower Upper
117 100
82 67.5 47.8 71.8
119 32.5 43.3 64.9#





#58

Ethyl Benzene

Concen: 0.291 ppbv

RT: 12.96 min Scan# 3694

Delta R.T. -0.02 min

Lab File: VL032156.D

Acq: 30 Jun 2018 5:15

Instrument :

MSVOA_L

ClientSampleId :

OUTDOOR-1

Tgt Ion: 91 Resp: 165618

Ion Ratio Lower Upper

91 100

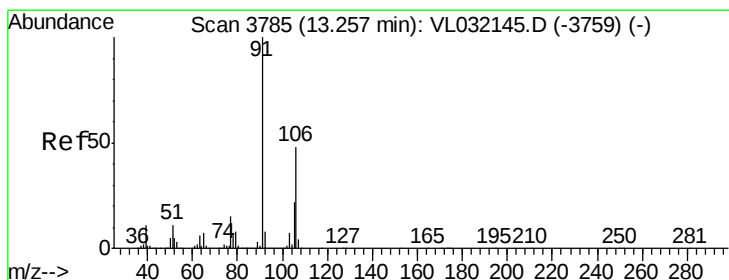
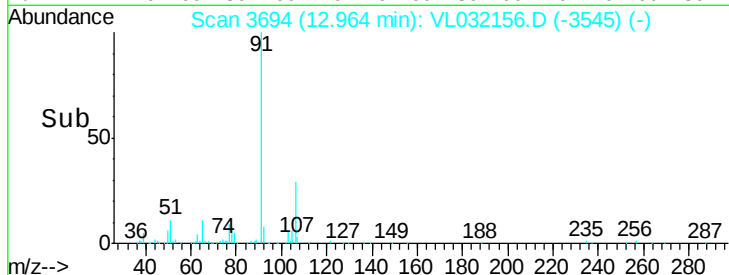
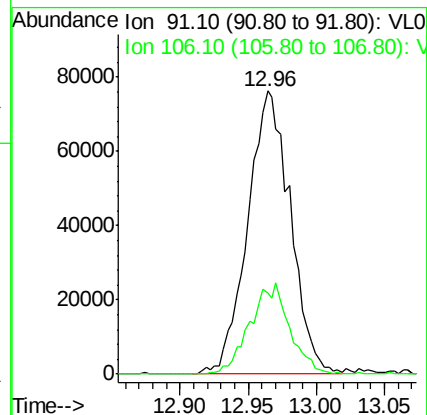
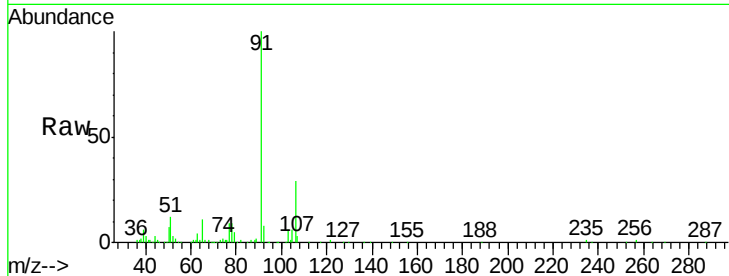
106 28.7 26.5 39.7

Manual Integrations

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#59

m/p-Xylene

Concen: 0.713 ppbv m

RT: 13.22 min Scan# 3775

Delta R.T. -0.05 min

Lab File: VL032156.D

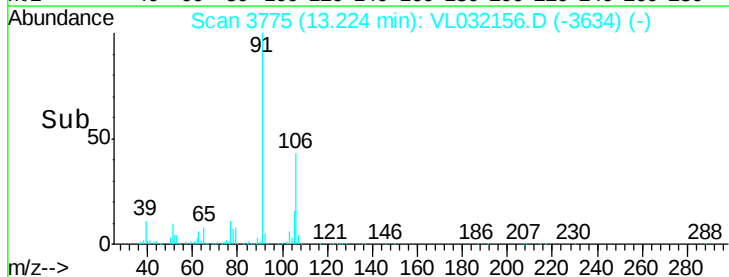
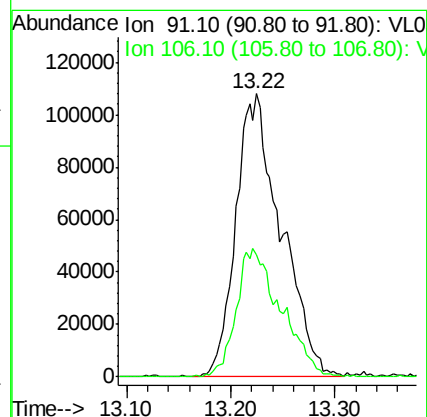
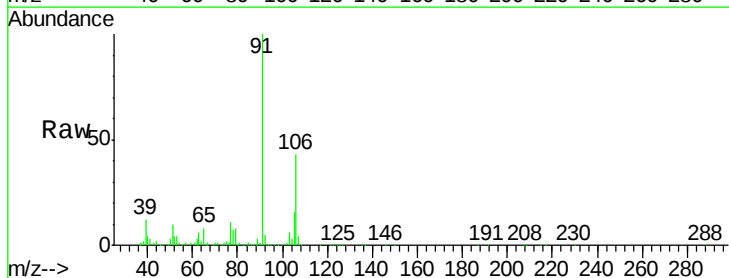
Acq: 30 Jun 2018 5:15

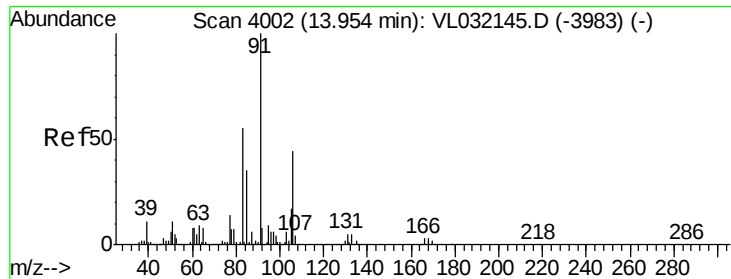
Tgt Ion: 91 Resp: 325228

Ion Ratio Lower Upper

91 100

106 0.0 38.6 58.0#





#60

o-Xylene

Concen: 0.305 ppbv m

RT: 13.95 min Scan# 4002

Delta R.T. -0.02 min

Lab File: VL032156.D

Acq: 30 Jun 2018 5:15

Instrument :

MSVOA_L

ClientSampleId :

OUTDOOR-1

Tgt Ion: 91 Resp: 138712

Ion Ratio Lower Upper

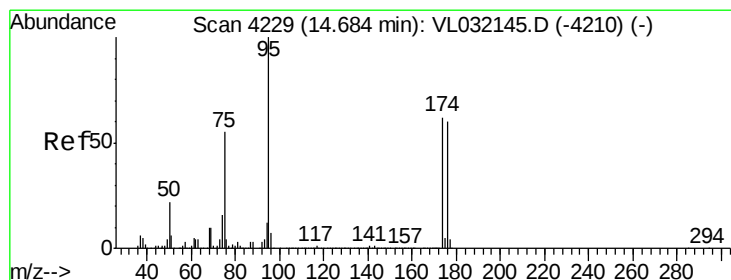
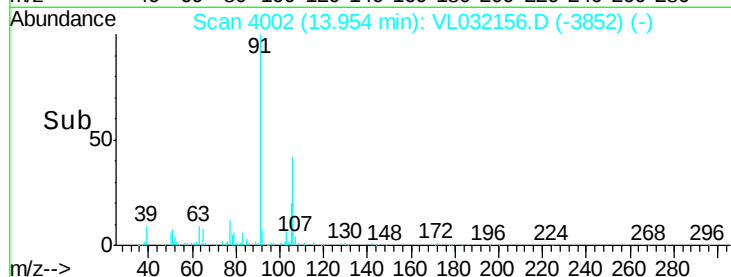
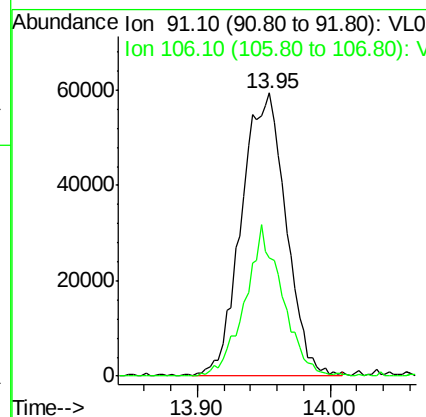
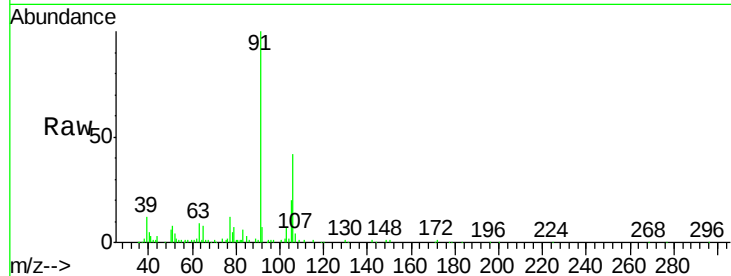
91 100

106 44.8 23.3 69.8

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#68

1-Bromo-4-Fluorobenzene

Concen: 9.779 ppbv m

RT: 14.68 min Scan# 4228

Delta R.T. -0.02 min

Lab File: VL032156.D

Acq: 30 Jun 2018 5:15

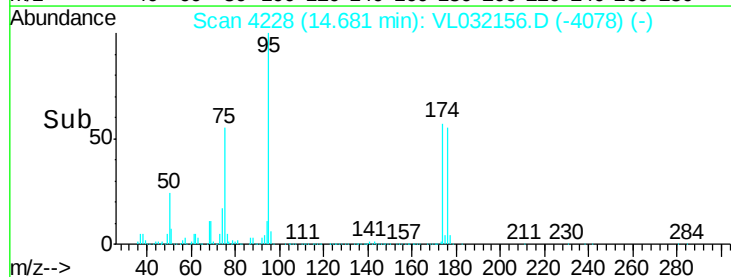
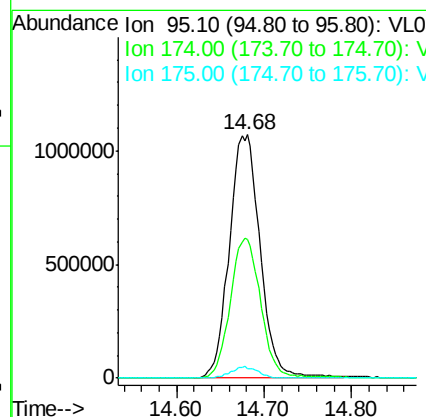
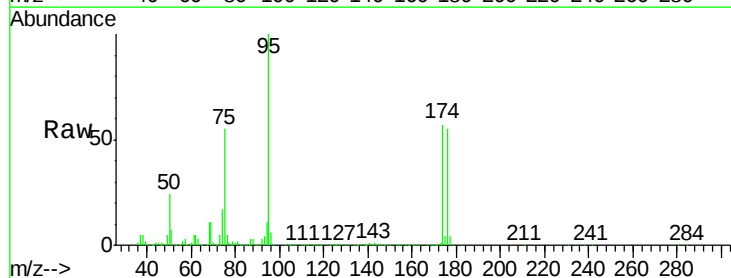
Tgt Ion: 95 Resp: 2638375

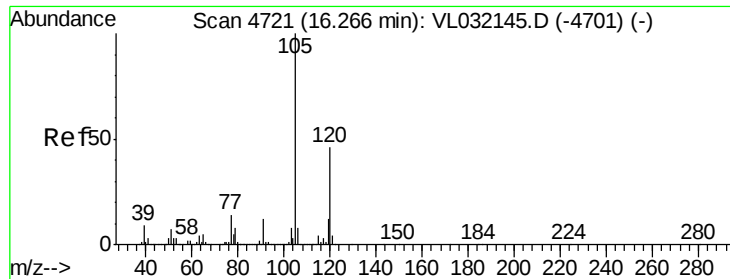
Ion Ratio Lower Upper

95 100

174 0.0 52.1 78.1#

175 0.0 4.0 6.0#





#73

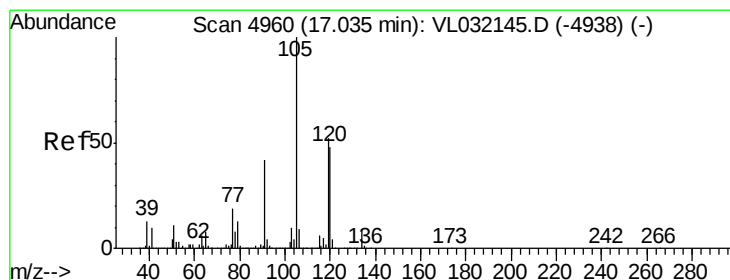
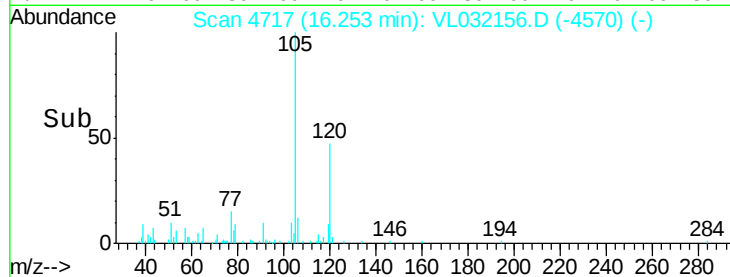
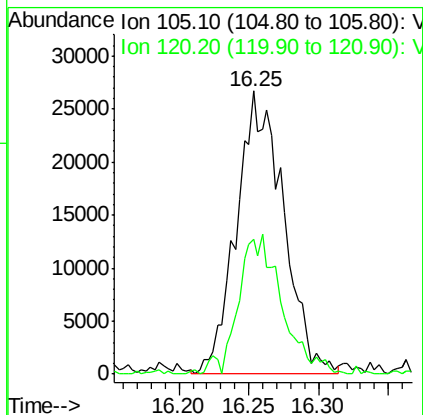
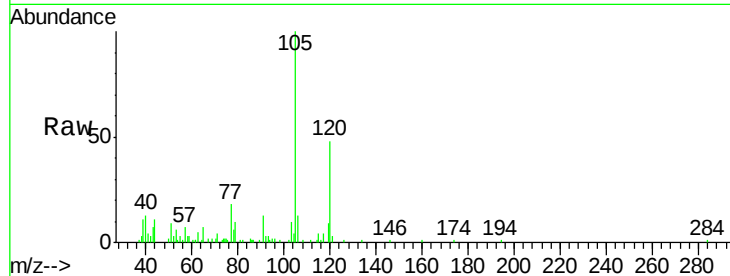
1,3,5-Trimethylbenzene
Concen: 0.113 ppbv
RT: 16.25 min Scan# 4717
Delta R.T. -0.03 min
Lab File: VL032156.D
Acq: 30 Jun 2018 5:15

Instrument :
MSVOA_L
ClientSampleId :
OUTDOOR-1

Tgt Ion	Ratio	Lower	Upper
105	100		
120	47.7	38.6	57.8

Manual Integrations
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#74

1,2,4-Trimethylbenzene
Concen: 0.244 ppbv
RT: 17.03 min Scan# 4958
Delta R.T. -0.02 min
Lab File: VL032156.D
Acq: 30 Jun 2018 5:15

Tgt Ion	Ratio	Lower	Upper
105	100		
120	39.1	38.8	58.2
91	8.8	33.6	50.4#
77	12.9	16.0	24.0#

