

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL071818\
 Data File : VL032287.D
 Acq On : 19 Jul 2018 8:23
 Operator : SY/AP
 Sample : J3454-09
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 B-14-AMBIENT

Manual Integrations
 APPROVED

MMDadoda
 7/20/2018 2:53:34 PM

Quant Time: Jul 20 01:47:13 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL071818AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jul 18 2018
 QLast Update : Wed Jul 18 14:38:53 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.83	49	1559264	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.37	114	3363990	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.33	117	3892979	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.67	95	3068278	9.72	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.13	85	71532	0.27	ppbv	97
3) Chlorodifluoromethane	3.06	51	662637m	3.79	ppbv	
4) Chloromethane	3.22	50	58834	0.57	ppbv	91
10) Heptane	8.33	43	39451m	0.16	ppbv	
11) Trichlorofluoromethane	4.06	101	66044	0.32	ppbv	97
13) Ethanol	3.71	45	1453365	66.51	ppbv	98
15) Acetone	3.96	43	1425334	8.73	ppbv	99
19) Isopropyl Alcohol	4.09	45	324263	2.94	ppbv #	1
20) Methylene Chloride	4.47	84	63023	1.00	ppbv	96
26) Hexane	5.85	57	2688915	16.47	ppbv #	43
34) 2-Butanone	5.40	43	157994	0.68	ppbv	99
35) Carbon Tetrachloride	7.21	117	18275m	0.08	ppbv	
36) Benzene	7.08	78	60566	0.18	ppbv #	95
44) 2,2,4-Trimethylpentane	8.08	57	101160m	0.18	ppbv	
53) Toluene	10.03	91	217792	0.54	ppbv	99
58) Ethyl Benzene	12.94	91	91046m	0.17	ppbv	
59) m/p-Xylene	13.21	91	343794m	0.73	ppbv	
60) o-Xylene	13.94	91	120273m	0.26	ppbv	
74) 1,2,4-Trimethylbenzene	17.01	105	77015m	0.14	ppbv	

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

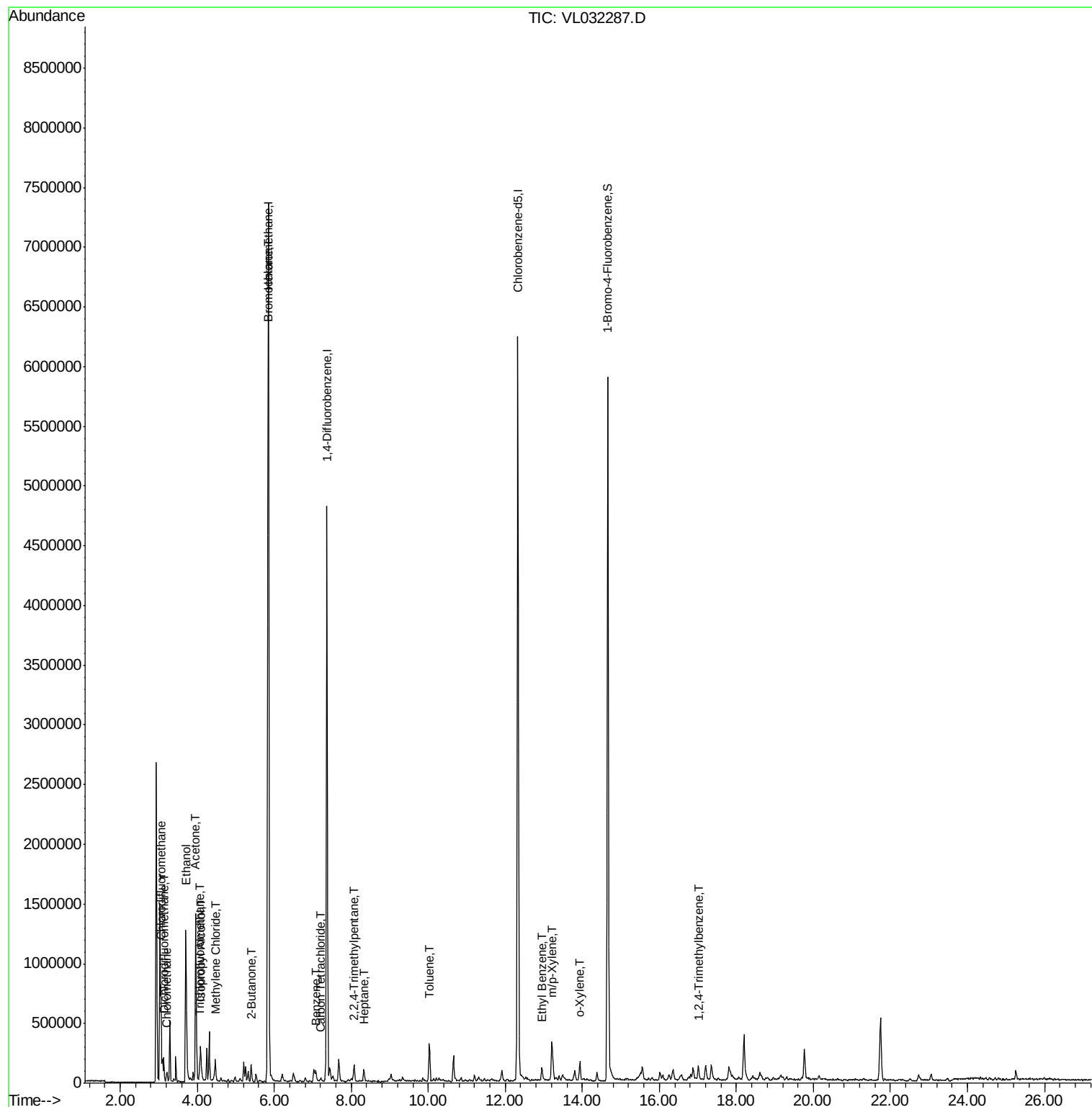
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL071818\
Data File : VL032287.D
Acq On : 19 Jul 2018 8:23
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Misc : 400ml/MSVOA L
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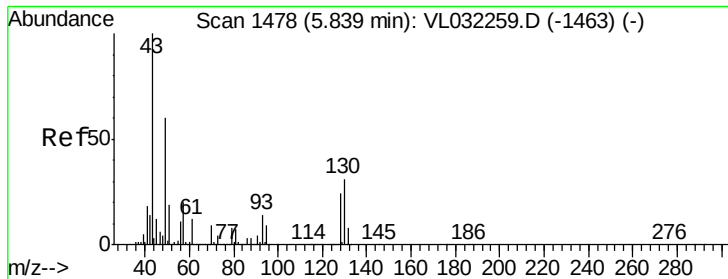
Instrument :
MSVOA_L
ClientSampleId :
B-14-AMBIENT

Manual Integrations
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7/20/2018 2:53:34 PM

Quant Time: Jul 20 01:47:13 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL071818AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jul
QLast Update : Wed Jul 18 14:38:53 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.83 min Scan# 1475

Delta R.T. -0.01 min

Lab File: VL032287.D

Acq: 19 Jul 2018 8:23

Instrument :

MSVOA_L

ClientSampleId :

B-14-AMBIENT

Tot Ion: 49 Resp: 1559264

Ion Ratio Lower Upper

49 100

128 39.7 20.1 60.2

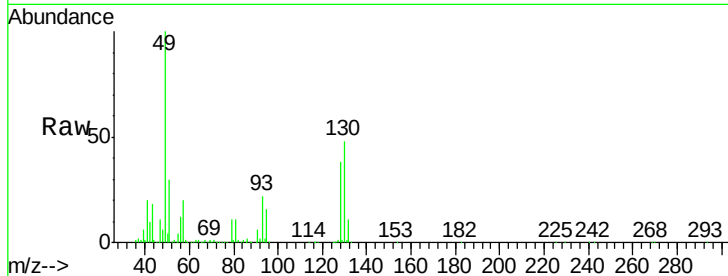
130 51.0 25.9 77.6

Manual Integrations

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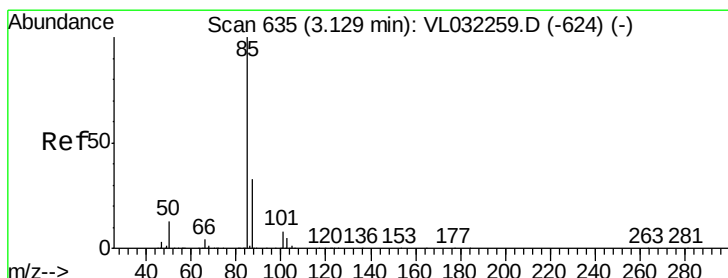
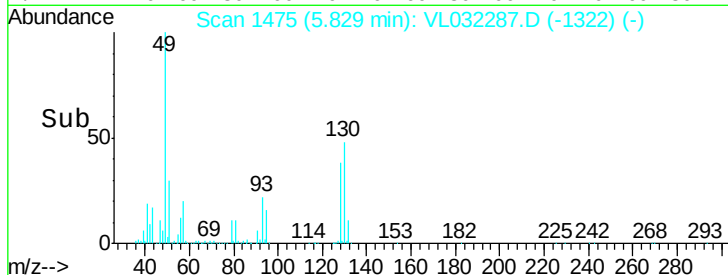
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

5.83

Time-->



#2

Dichlorodifluoromethane

Concen: 0.27 ppbv

RT: 3.13 min Scan# 634

Delta R.T. -0.00 min

Lab File: VL032287.D

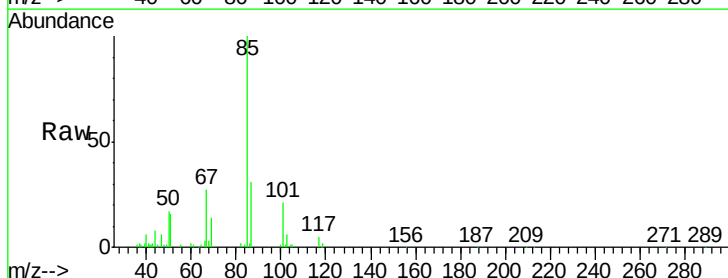
Acq: 19 Jul 2018 8:23

Tgt Ion: 85 Resp: 71532

Ion Ratio Lower Upper

85 100

87 31.0 26.2 39.2

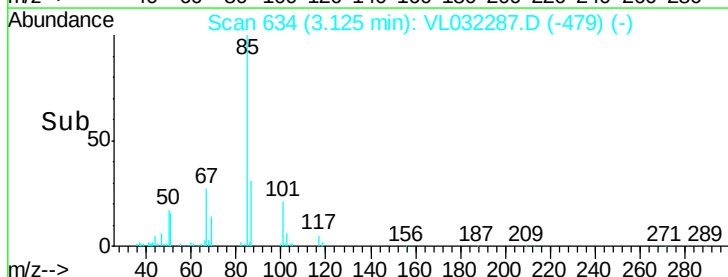


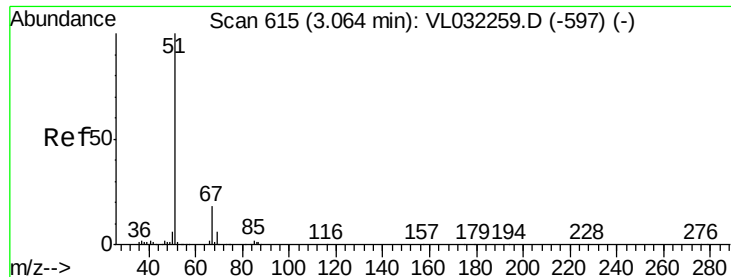
Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.13

Time-->





#3

Chlorodifluoromethane

Concen: 3.79 ppbv m

RT: 3.06 min Scan# 614

Delta R.T. -0.00 min

Lab File: VL032287.D

Acq: 19 Jul 2018 8:23

Instrument :

MSVOA_L

ClientSampleId :

B-14-AMBIENT

Tot Ion: 51 Resp: 662637

Ion Ratio Lower Upper

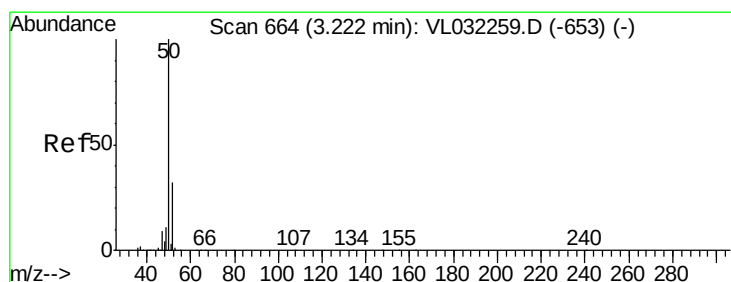
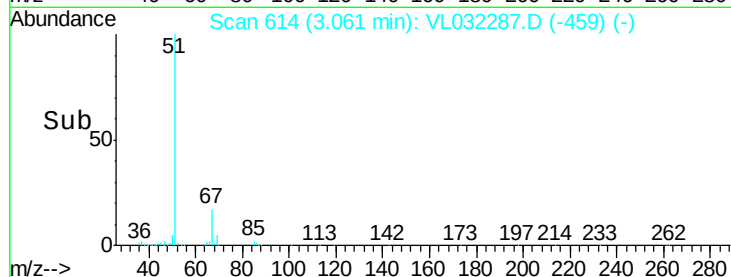
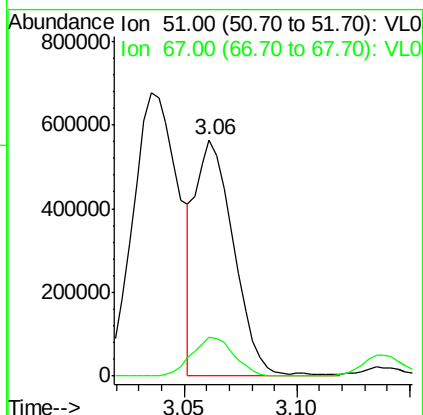
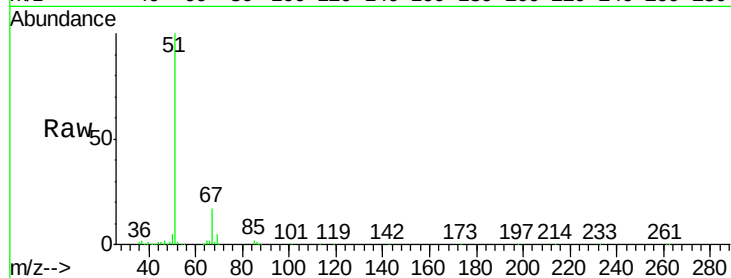
51 100

67 18.5 14.2 21.4

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#4

Chloromethane

Concen: 0.57 ppbv

RT: 3.22 min Scan# 664

Delta R.T. 0.00 min

Lab File: VL032287.D

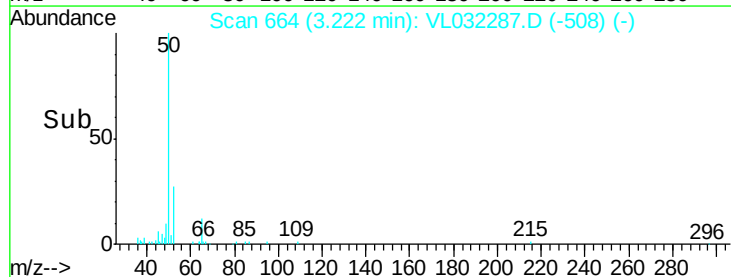
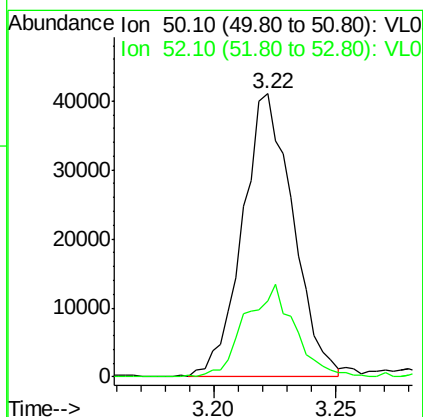
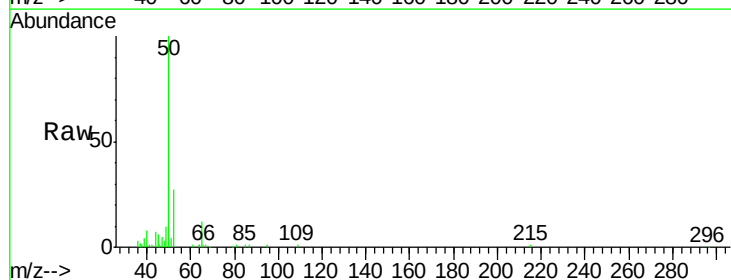
Acq: 19 Jul 2018 8:23

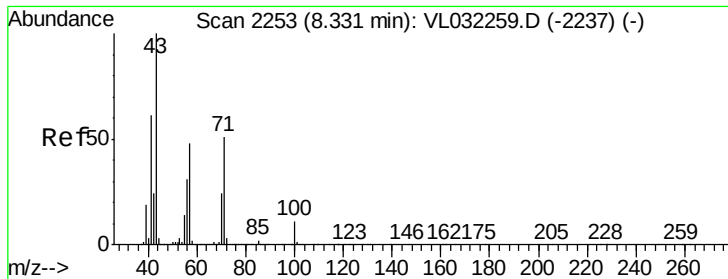
Tgt Ion: 50 Resp: 58834

Ion Ratio Lower Upper

50 100

52 26.4 25.3 37.9





#10

Heptane

Concen: 0.16 ppbv m

RT: 8.33 min Scan# 2252

Delta R.T. -0.00 min

Lab File: VL032287.D

Acq: 19 Jul 2018 8:23

Instrument :

MSVOA_L

ClientSampleId :

B-14-AMBIENT

Tot Ion: 43 Resp: 39451

Ion Ratio Lower Upper

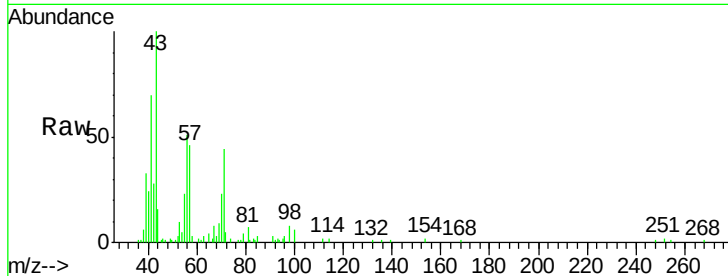
43 100

57 43.5 39.9 59.9

Manual Integrations
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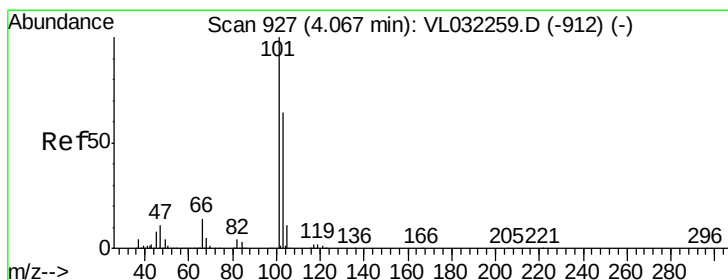
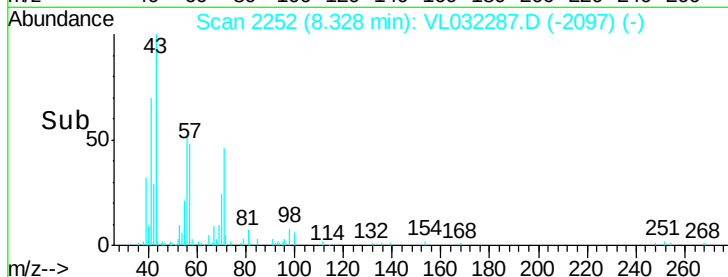
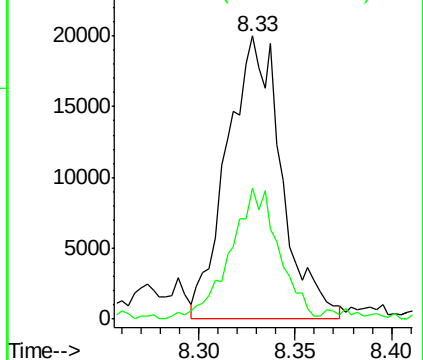
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#11

Trichlorofluoromethane

Concen: 0.32 ppbv

RT: 4.06 min Scan# 926

Delta R.T. -0.00 min

Lab File: VL032287.D

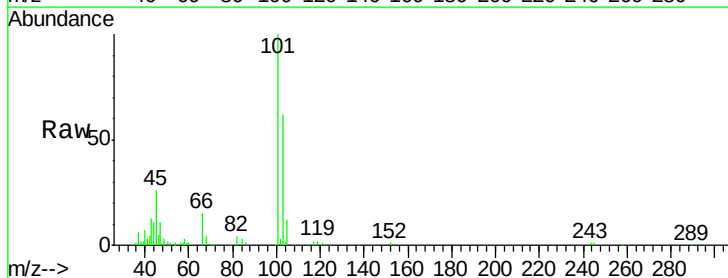
Acq: 19 Jul 2018 8:23

Tgt Ion: 101 Resp: 66044

Ion Ratio Lower Upper

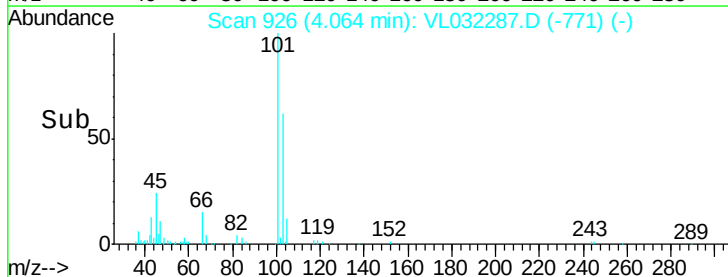
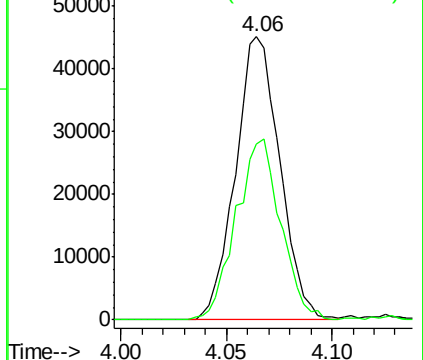
101 100

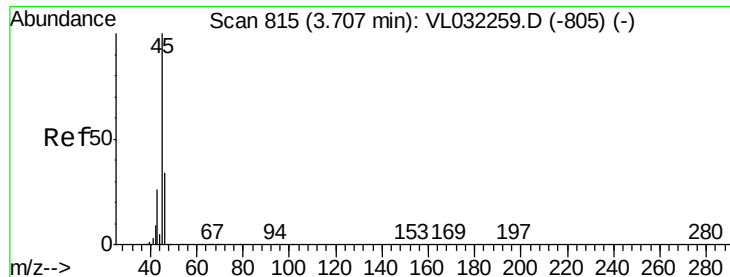
103 62.1 51.5 77.3



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#13

Ethanol

Concen: 66.51 ppbv

RT: 3.71 min Scan# 815

Delta R.T. 0.00 min

Lab File: VL032287.D

Acq: 19 Jul 2018 8:23

Instrument :

MSVOA_L

ClientSampleId :

B-14-AMBIENT

Tot Ion: 45 Resp: 1453365

Ion Ratio Lower Upper

45 100

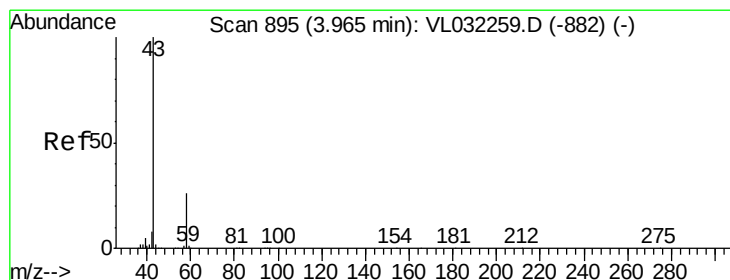
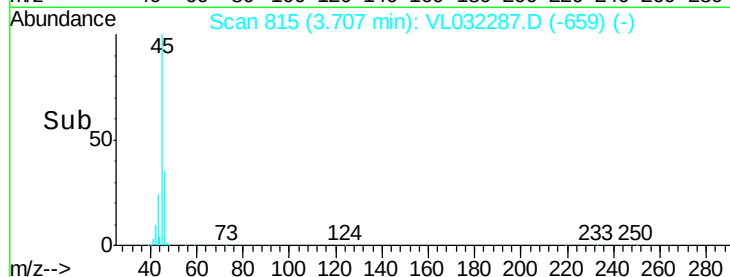
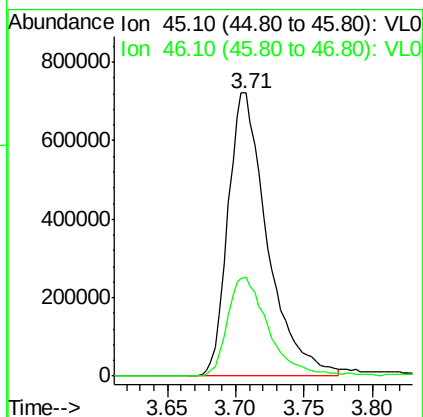
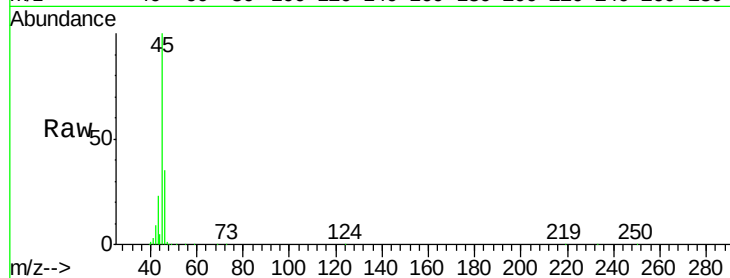
46 36.7 15.2 60.8

Manual Integrations

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#15

Acetone

Concen: 8.73 ppbv

RT: 3.96 min Scan# 893

Delta R.T. -0.01 min

Lab File: VL032287.D

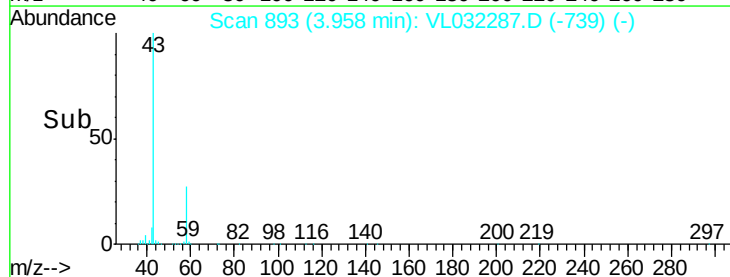
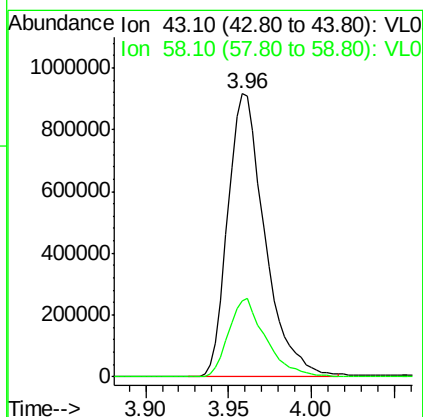
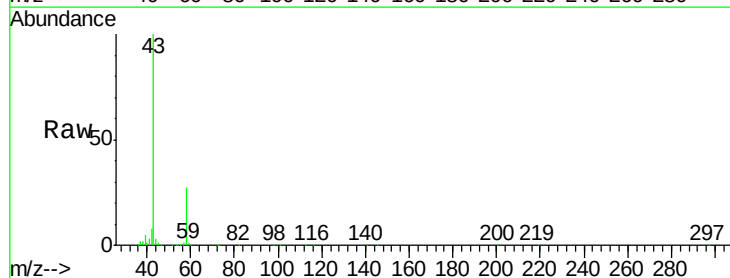
Acq: 19 Jul 2018 8:23

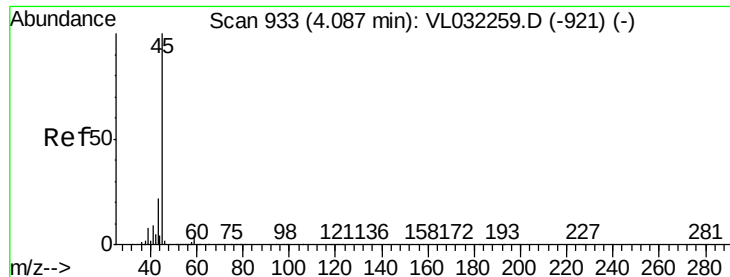
Tgt Ion: 43 Resp: 1425334

Ion Ratio Lower Upper

43 100

58 27.8 21.8 32.6





#19

Isopropyl Alcohol

Concen: 2.94 ppbv

RT: 4.09 min Scan# 933

Delta R.T. 0.00 min

Lab File: VL032287.D

Acq: 19 Jul 2018 8:23

Instrument :

MSVOA_L

ClientSampleId :

B-14-AMBIENT

Tot Ion: 45 Resp: 324263

Ion Ratio Lower Upper

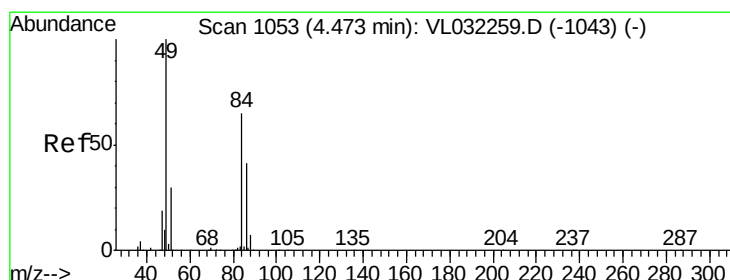
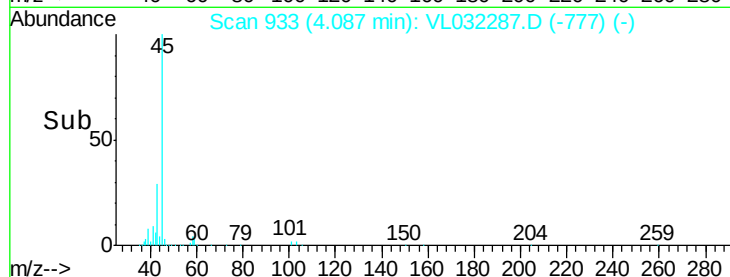
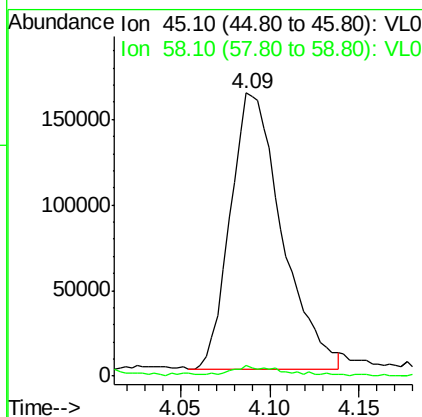
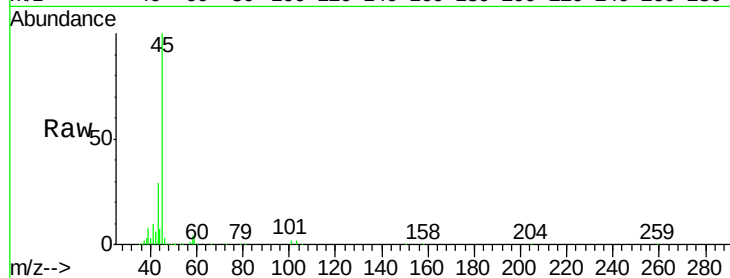
45 100

58 123.0 1.5 2.3#

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#20

Methylene Chloride

Concen: 1.00 ppbv

RT: 4.47 min Scan# 1053

Delta R.T. 0.00 min

Lab File: VL032287.D

Acq: 19 Jul 2018 8:23

Tgt Ion: 84 Resp: 63023

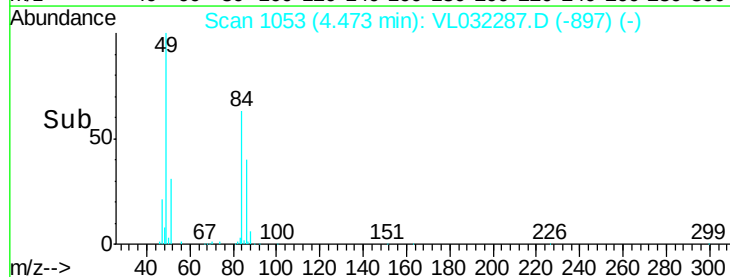
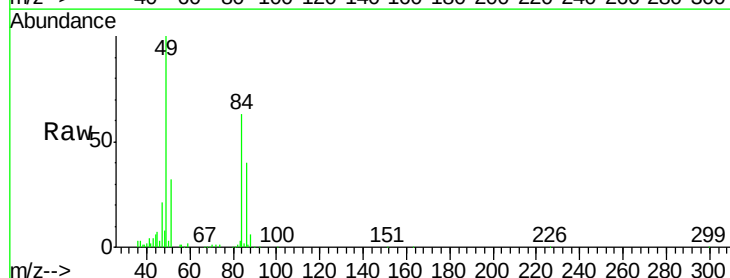
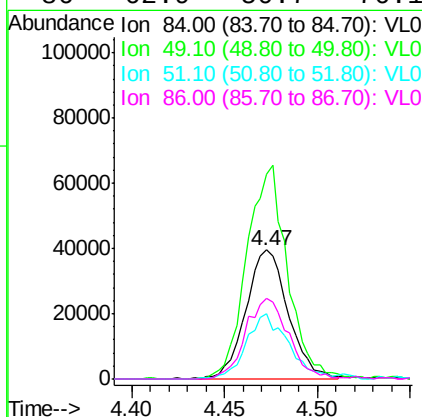
Ion Ratio Lower Upper

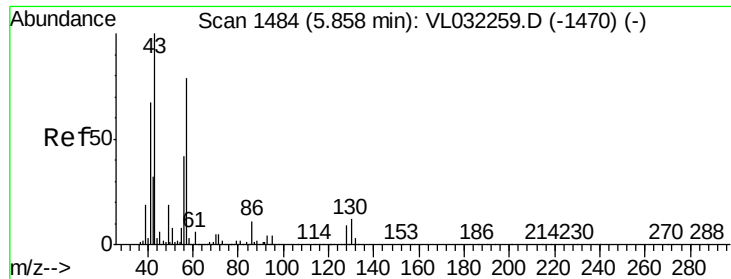
84 100

49 159.0 122.4 183.6

51 50.2 36.8 55.2

86 62.9 50.7 76.1





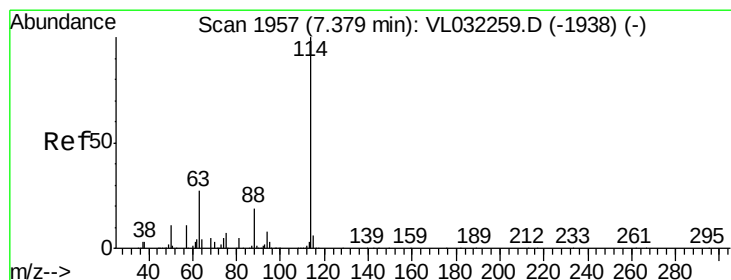
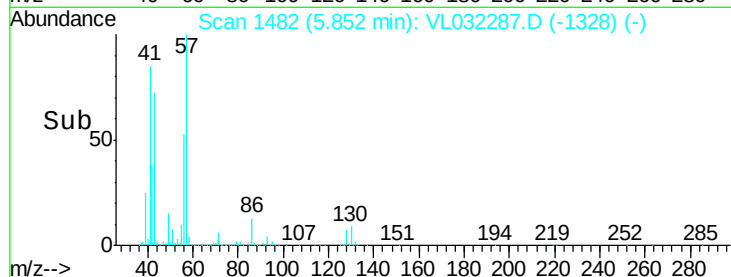
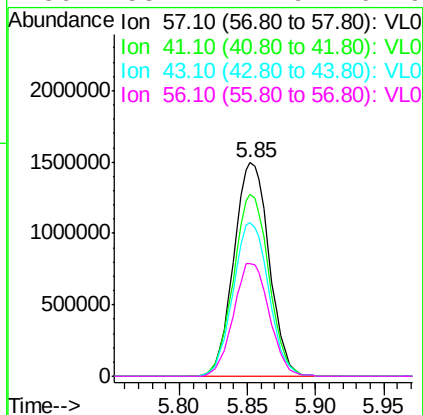
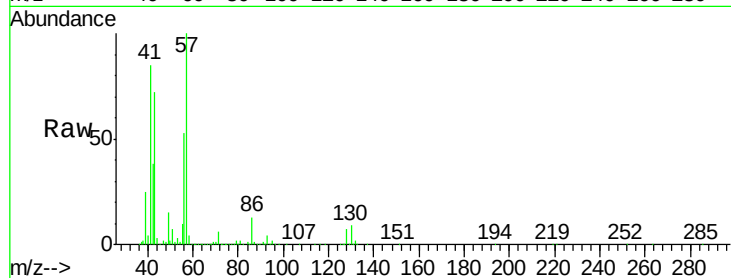
#26
Hexane
Concen: 16.47 ppbv
RT: 5.85 min Scan# 1482
Delta R.T. -0.01 min
Lab File: VL032287.D
Acq: 19 Jul 2018 8:23

Instrument :
MSVOA_L
ClientSampleId :
B-14-AMBIENT

Tot Ion	57	Resp	2688915
Ion	Ratio	Lower	Upper
57	100		
41	85.3	67.9	101.9
43	72.9	175.9	263.9#
56	53.4	41.9	62.9

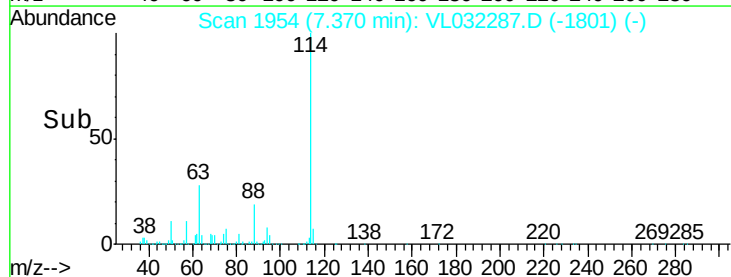
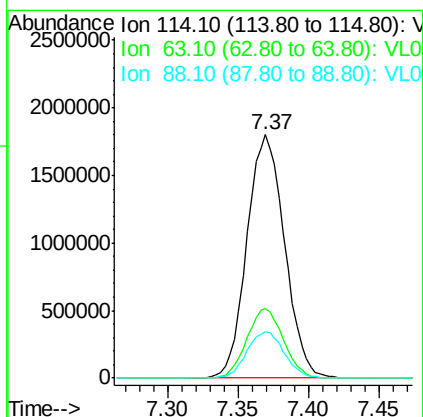
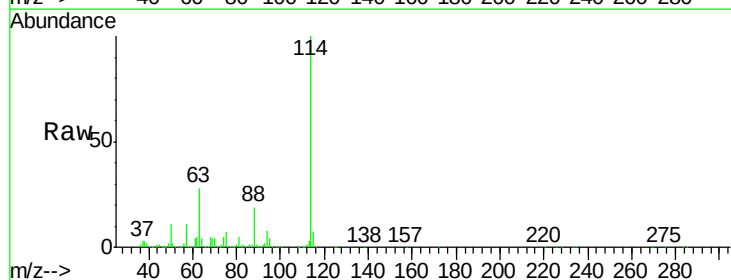
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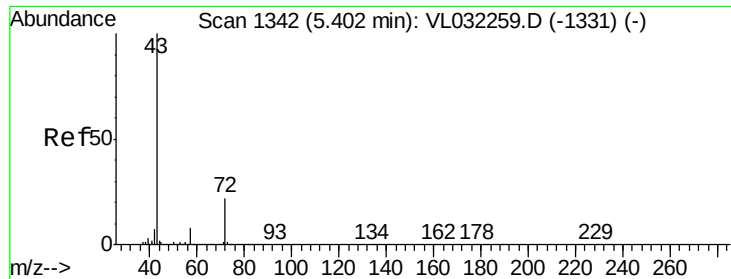
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#33
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 7.37 min Scan# 1954
Delta R.T. -0.01 min
Lab File: VL032287.D
Acq: 19 Jul 2018 8:23

Tgt Ion	114	Resp	3363990
Ion	Ratio	Lower	Upper
114	100		
63	27.9	22.6	33.8
88	19.0	15.2	22.8





#34

2-Butanone

Concen: 0.68 ppbv

RT: 5.40 min Scan# 1342

Delta R.T. 0.00 min

Lab File: VL032287.D

Acq: 19 Jul 2018 8:23

Instrument :

MSVOA_L

ClientSampleId :

B-14-AMBIENT

Tot Ion: 43 Resp: 157994

Ion Ratio Lower Upper

43 100

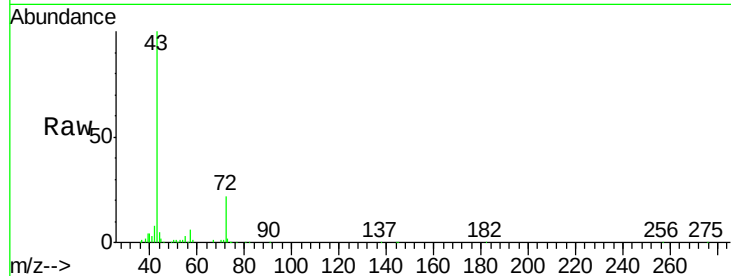
72 21.7 17.7 26.5

Manual Integrations

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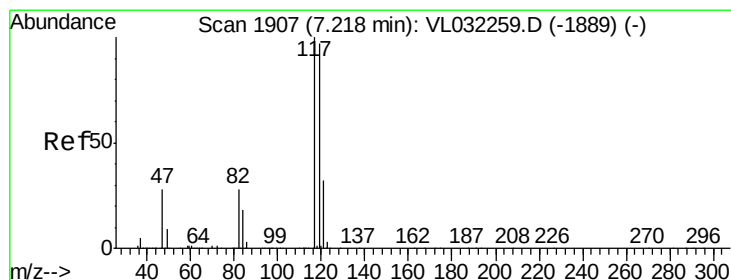
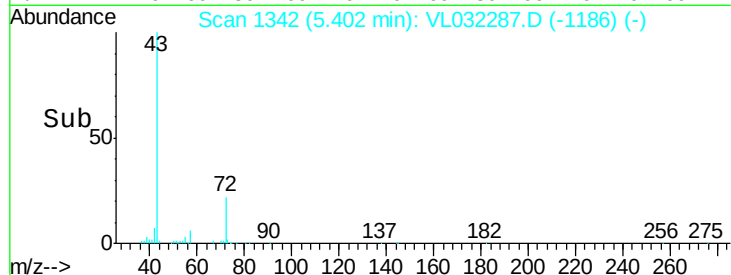
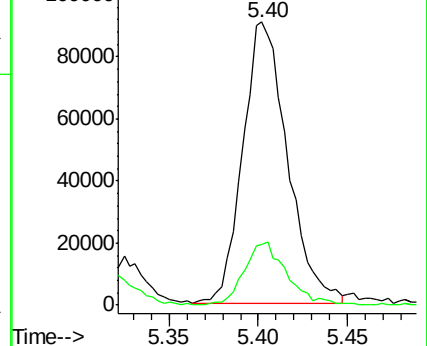
MMDadoda

7/20/2018 2:53:34 PM



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0



#35

Carbon Tetrachloride

Concen: 0.08 ppbv m

RT: 7.21 min Scan# 1905

Delta R.T. -0.01 min

Lab File: VL032287.D

Acq: 19 Jul 2018 8:23

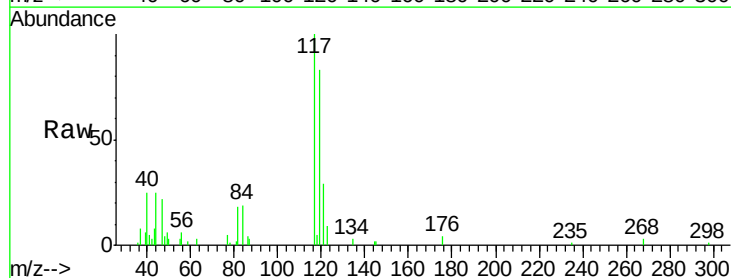
Tgt Ion: 117 Resp: 18275

Ion Ratio Lower Upper

117 100

119 83.4 77.4 116.0

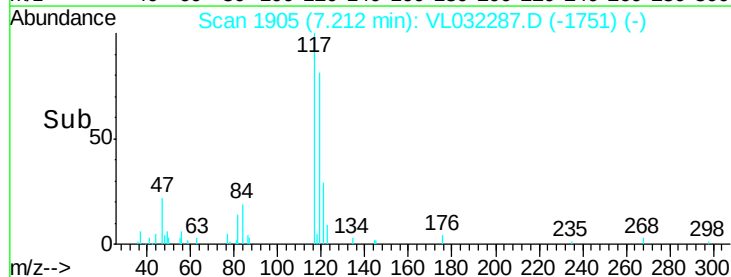
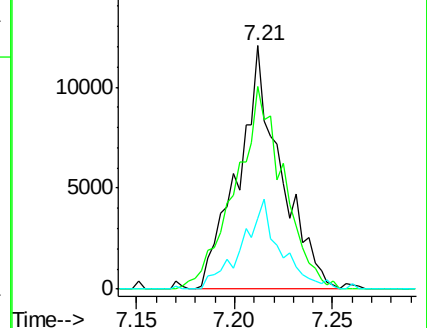
121 29.2 25.4 38.2

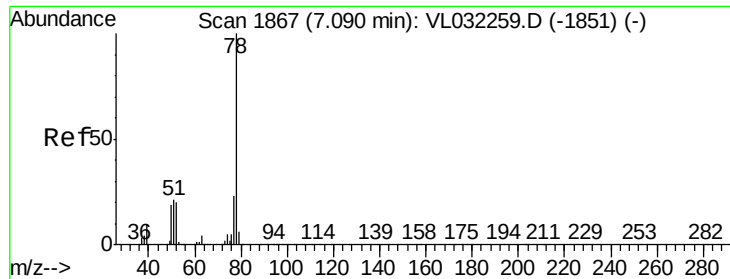


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V





#36

Benzene

Concen: 0.18 ppbv

RT: 7.08 min Scan# 1864

Delta R.T. -0.01 min

Lab File: VL032287.D

Acq: 19 Jul 2018 8:23

Instrument :

MSVOA_L

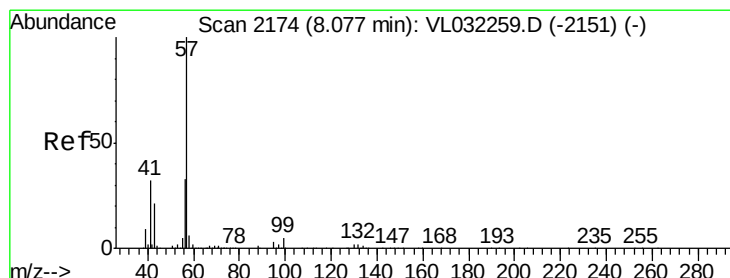
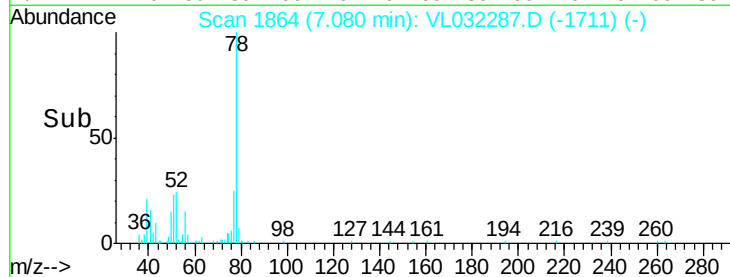
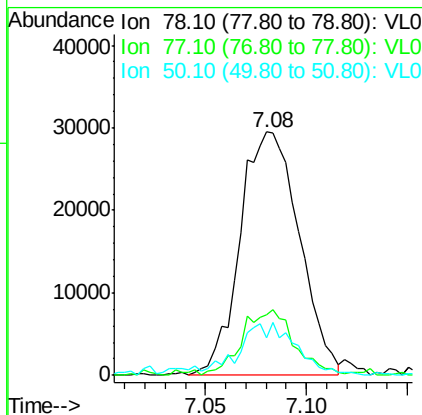
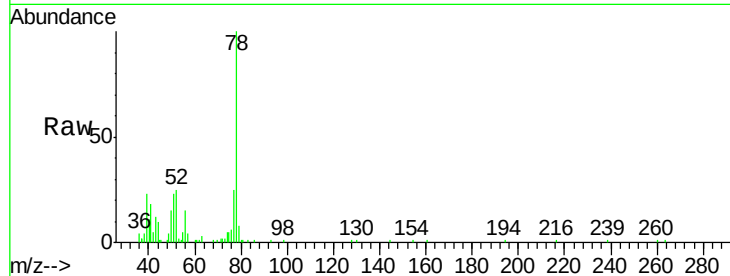
ClientSampleId :

B-14-AMBIENT

Tot Ion:	78	Resp:	60566
Ion Ratio	Lower	Upper	
78	100		
77	23.8	18.6	27.8
50	14.4	15.0	22.6#

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#44

2,2,4-Trimethylpentane

Concen: 0.18 ppbv m

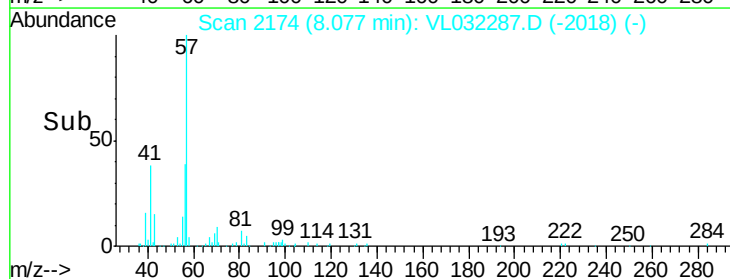
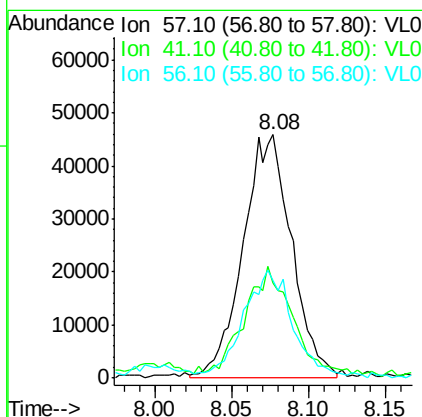
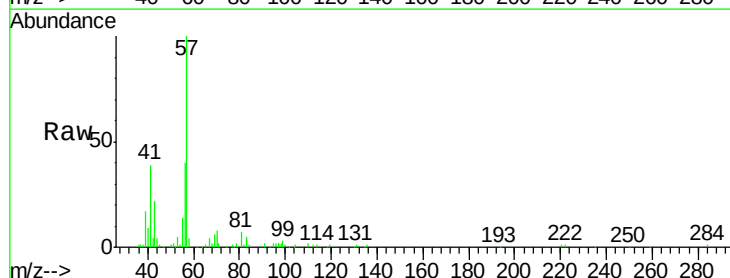
RT: 8.08 min Scan# 2174

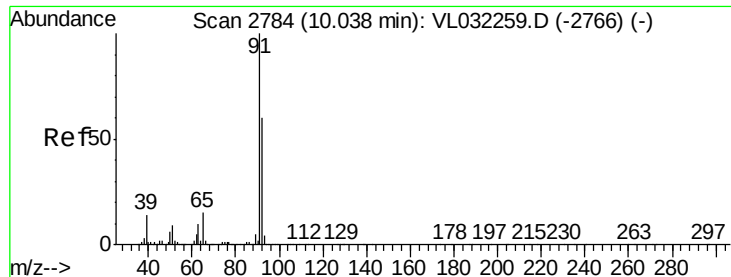
Delta R.T. 0.00 min

Lab File: VL032287.D

Acq: 19 Jul 2018 8:23

Tgt Ion:	57	Resp:	101160
Ion Ratio	Lower	Upper	
57	100		
41	42.7	24.4	36.6#
56	45.8	25.7	38.5#





#53

Toluene

Concen: 0.54 ppbv

RT: 10.03 min Scan# 2782

Delta R.T. -0.01 min

Lab File: VL032287.D

Acq: 19 Jul 2018 8:23

Instrument :

MSVOA_L

ClientSampleId :

B-14-AMBIENT

Tot Ion: 91 Resp: 217792

Ion Ratio Lower Upper

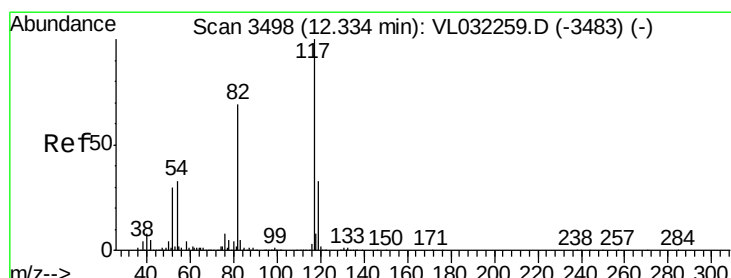
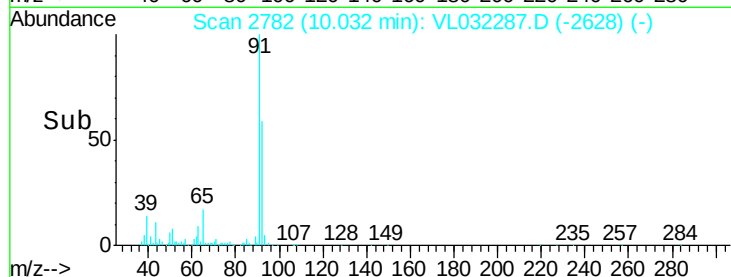
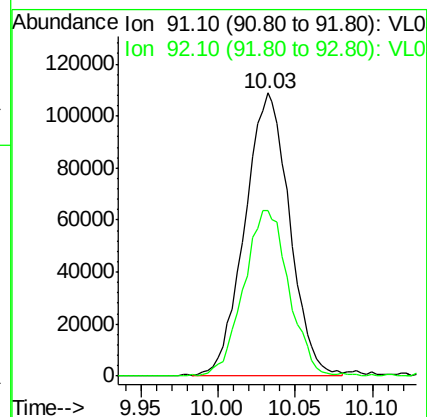
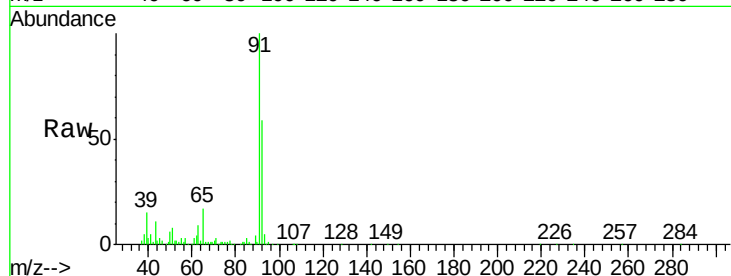
91 100

92 60.0 48.6 72.8

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#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.33 min Scan# 3496

Delta R.T. -0.01 min

Lab File: VL032287.D

Acq: 19 Jul 2018 8:23

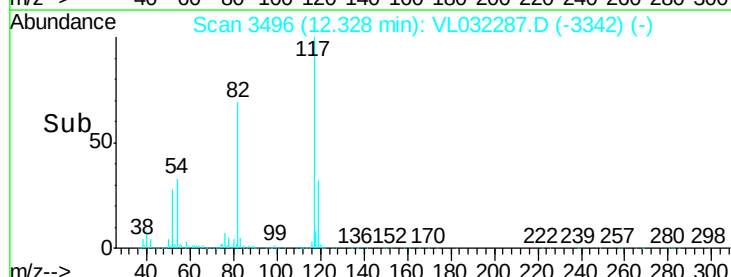
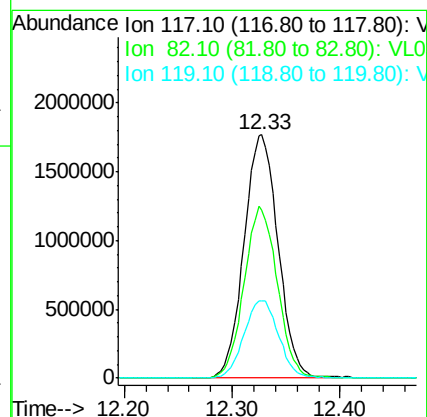
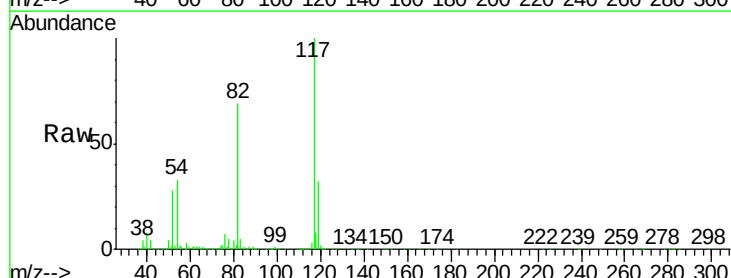
Tgt Ion: 117 Resp: 3892979

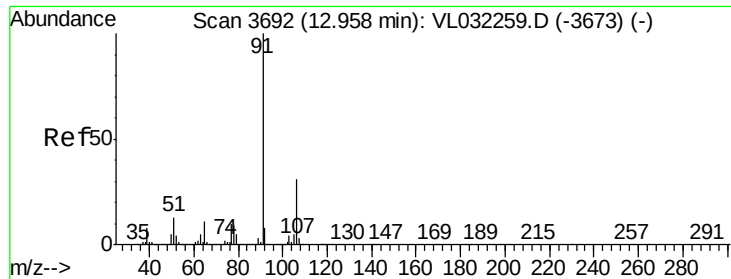
Ion Ratio Lower Upper

117 100

82 69.4 53.9 80.9

119 32.4 25.5 38.3





#58

Ethyl Benzene

Concen: 0.17 ppbv m

RT: 12.94 min Scan# 3688

Delta R.T. -0.01 min

Lab File: VL032287.D

Acq: 19 Jul 2018 8:23

Instrument :

MSVOA_L

ClientSampleId :

B-14-AMBIENT

Tot Ion: 91 Resp: 91046

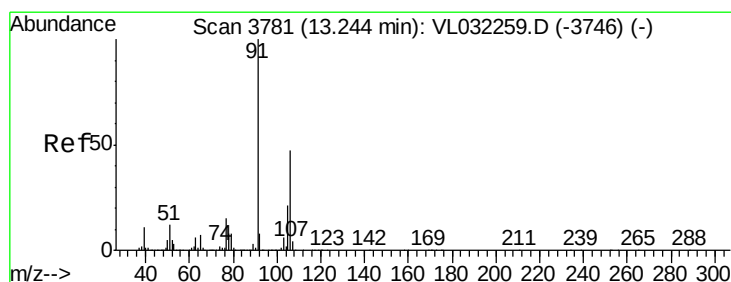
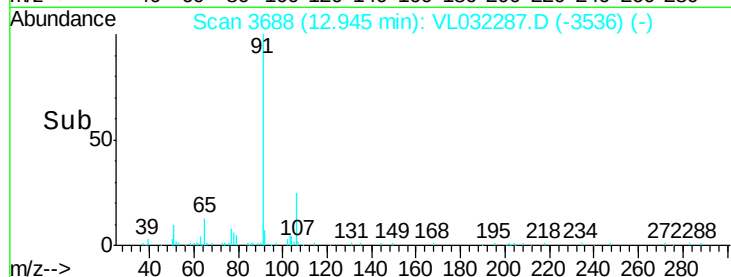
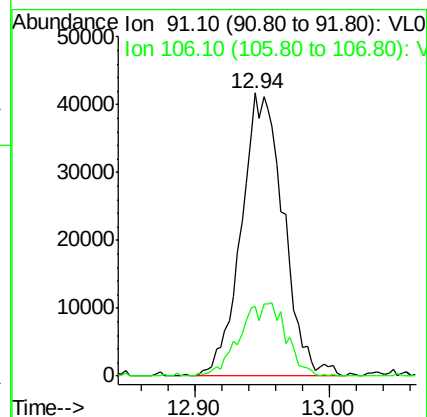
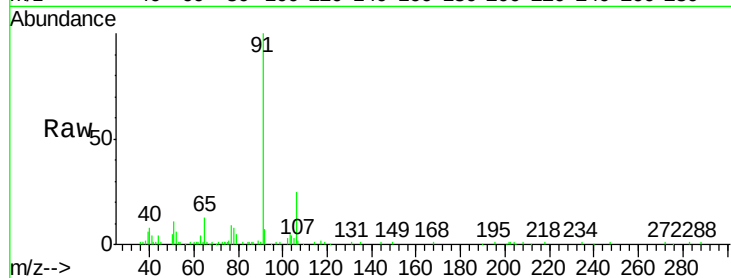
Ion Ratio Lower Upper

91 100

106 24.6 24.5 36.7

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#59

m/p-Xylene

Concen: 0.73 ppbv m

RT: 13.21 min Scan# 3771

Delta R.T. -0.03 min

Lab File: VL032287.D

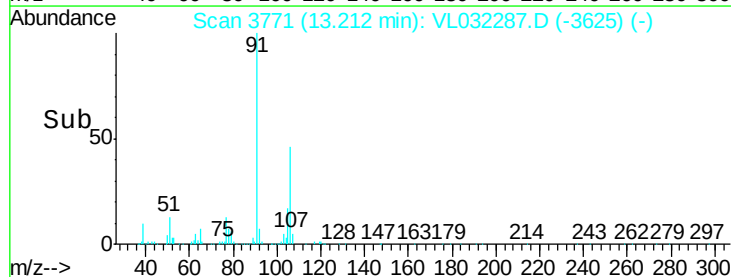
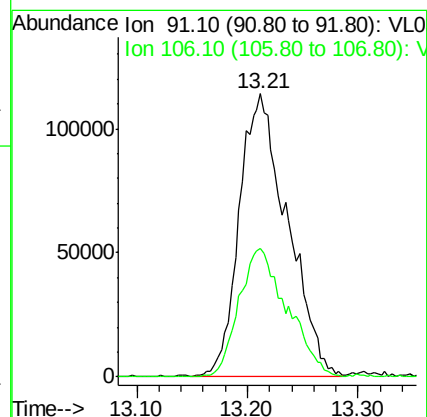
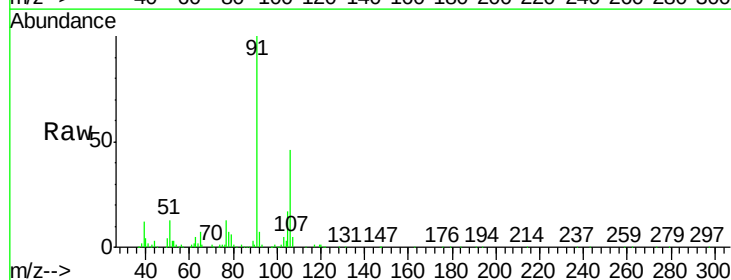
Acq: 19 Jul 2018 8:23

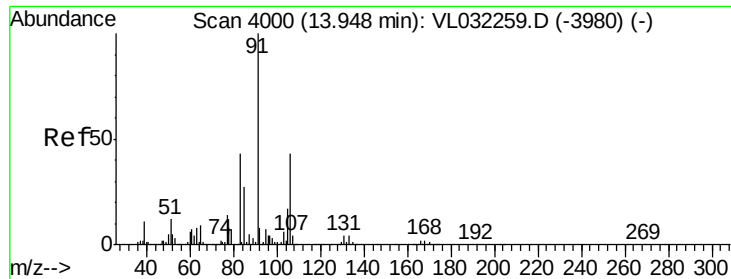
Tgt Ion: 91 Resp: 343794

Ion Ratio Lower Upper

91 100

106 0.0 36.2 54.2#





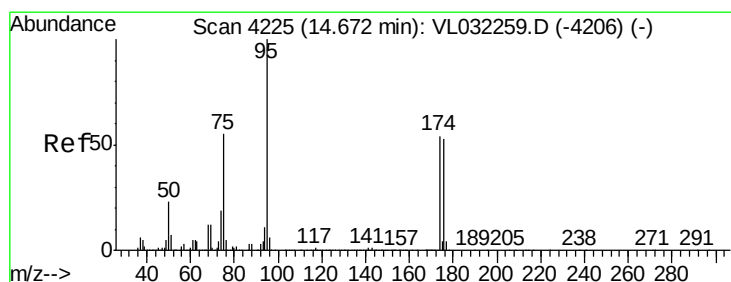
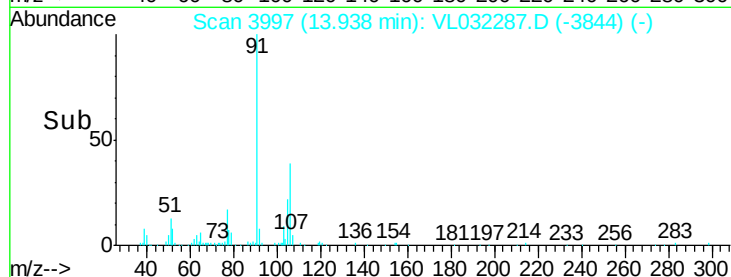
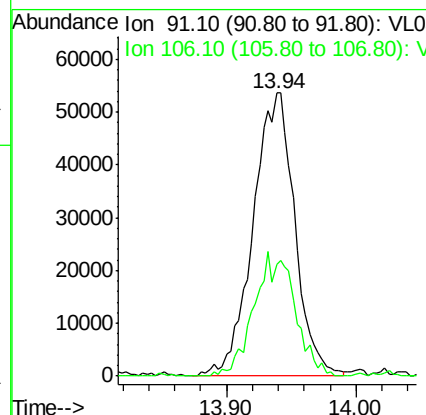
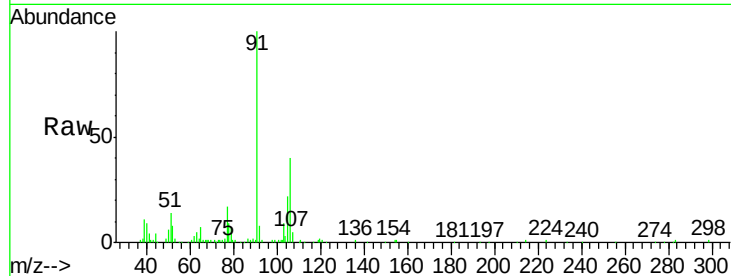
#60
o-Xylene
Concen: 0.26 ppbv m
RT: 13.94 min Scan# 3997
Delta R.T. -0.01 min
Lab File: VL032287.D
Acq: 19 Jul 2018 8:23

Instrument :
MSVOA_L
ClientSampleId :
B-14-AMBIENT

Tot Ion: 91 Resp: 120273
Ion Ratio Lower Upper
91 100
106 0.0 21.7 65.1#

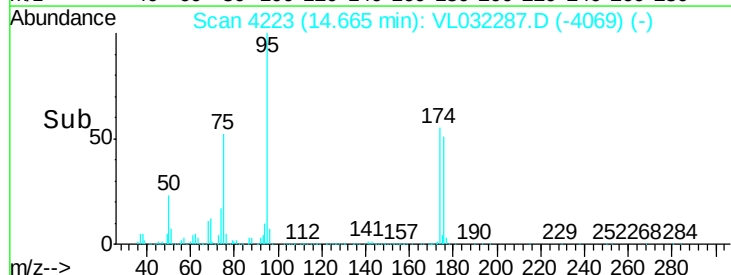
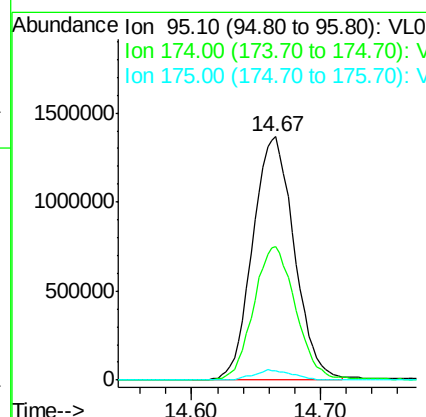
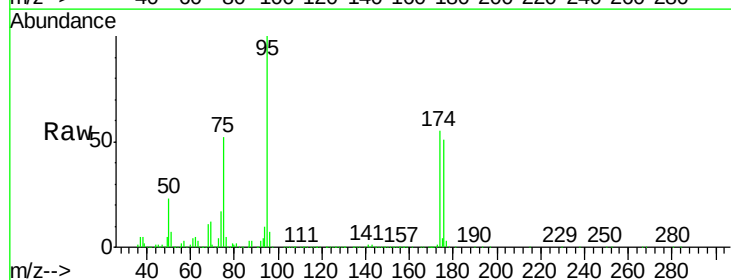
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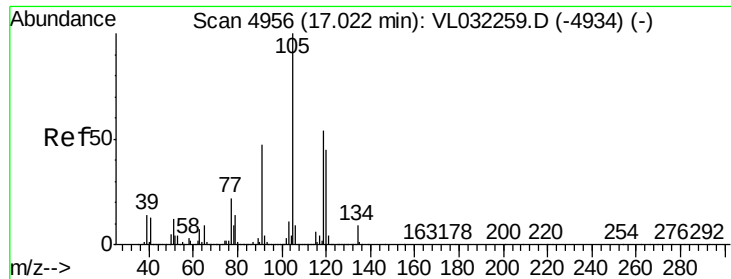
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#68
1-Bromo-4-Fluorobenzene
Concen: 9.72 ppbv
RT: 14.67 min Scan# 4223
Delta R.T. -0.01 min
Lab File: VL032287.D
Acq: 19 Jul 2018 8:23

Tgt Ion: 95 Resp: 3068278
Ion Ratio Lower Upper
95 100
174 56.0 44.3 66.5
175 4.0 3.3 4.9





#74
 1,2,4-Trimethylbenzene
 Concen: 0.14 ppbv m
 RT: 17.01 min Scan# 4953
 Delta R.T. -0.01 min
 Lab File: VL032287.D
 Acq: 19 Jul 2018 8:23

Instrument :
 MSVOA_L
 ClientSampleId :
 B-14-AMBIENT

Tot Ion:	105	Resp:	77015
Ion Ratio	Lower	Upper	
105	100		
120	42.7	35.8	53.6
91	14.4	38.2	57.4#
77	13.0	17.5	26.3#

Manual Integrations
 APPROVED

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