

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL071818\
 Data File : VL032283.D
 Acq On : 19 Jul 2018 5:45
 Operator : SY/AP
 Sample : J3454-07
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 B-12

Manual Integrations
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 7/20/2018 2:53:29 PM

Quant Time: Jul 19 08:05:12 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 14:38:53 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	5.84	49	1649283	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.37	114	3416717	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.33	117	3995646	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.67	95	3181304	9.82	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.13	85	155260	0.55	ppbv	98
3) Chlorodifluoromethane	3.06	51	169847m	0.92	ppbv	
4) Chloromethane	3.22	50	63429	0.58	ppbv	99
10) Heptane	8.33	43	106414	0.41	ppbv	98
11) Trichlorofluoromethane	4.07	101	57283	0.26	ppbv	90
13) Ethanol	3.71	45	1458947	63.12	ppbv	99
15) Acetone	3.96	43	1707564	9.89	ppbv	97
17) tert-Butyl alcohol	4.44	59	20821m	0.38	ppbv	
19) Isopropyl Alcohol	4.10	45	308709	2.64	ppbv #	1
20) Methylene Chloride	4.48	84	67876	1.02	ppbv	90
26) Hexane	5.86	57	1104348	6.40	ppbv #	46
34) 2-Butanone	5.40	43	204635	0.87	ppbv	99
35) Carbon Tetrachloride	7.21	117	16261m	0.07	ppbv	
36) Benzene	7.08	78	38472	0.11	ppbv #	89
52) Tetrachloroethene	11.46	164	6757m	0.06	ppbv	
53) Toluene	10.03	91	171195	0.42	ppbv	98
59) m/p-Xylene	13.21	91	122436m	0.25	ppbv	
60) o-Xylene	13.94	91	51976m	0.11	ppbv	
76) 1,4-Dichlorobenzene	17.40	146	40549m	0.13	ppbv	

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

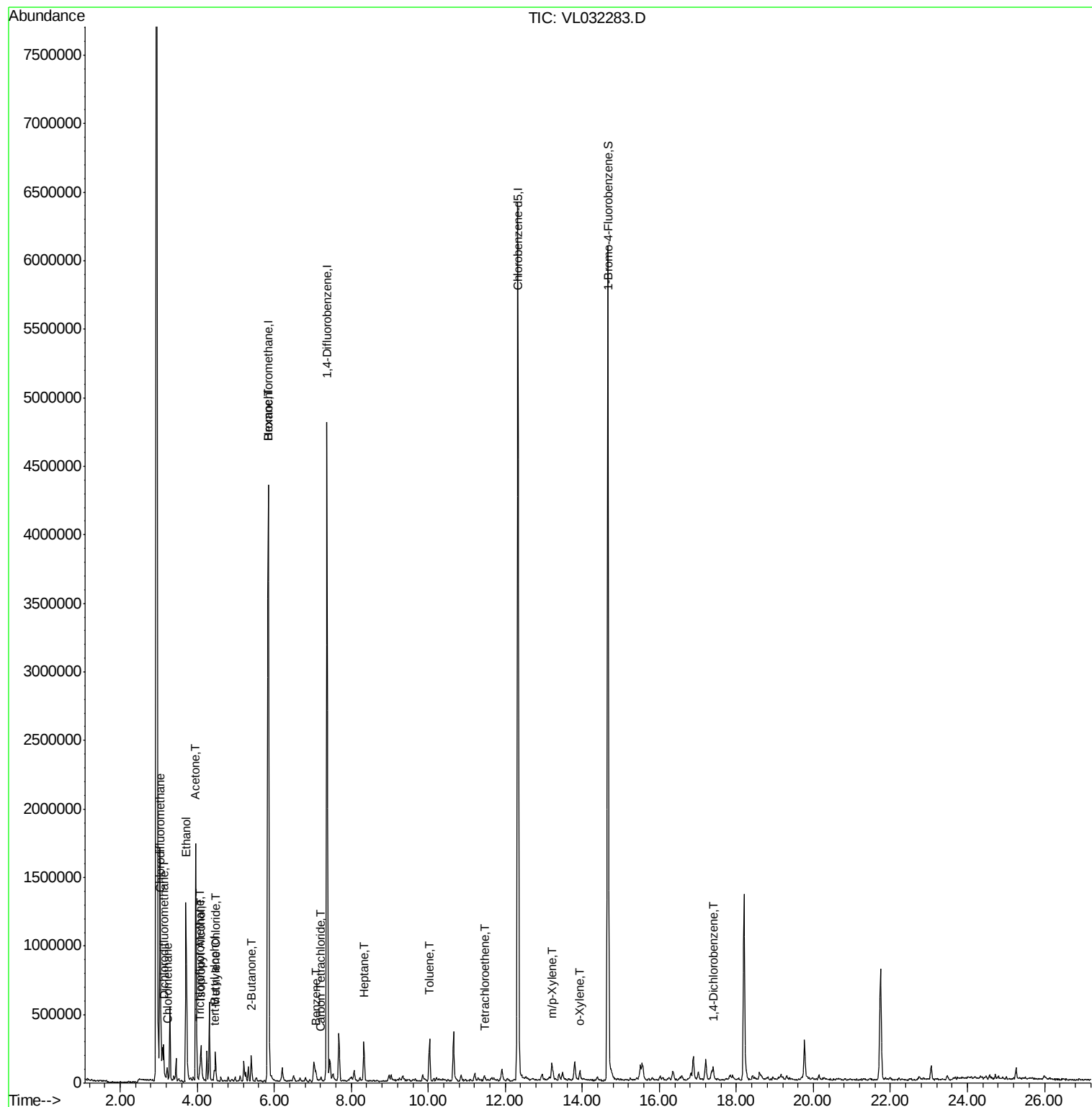
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL071818\
Data File : VL032283.D
Acq On : 19 Jul 2018 5:45
Operator : SY/AP
Sample : J3454-07
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

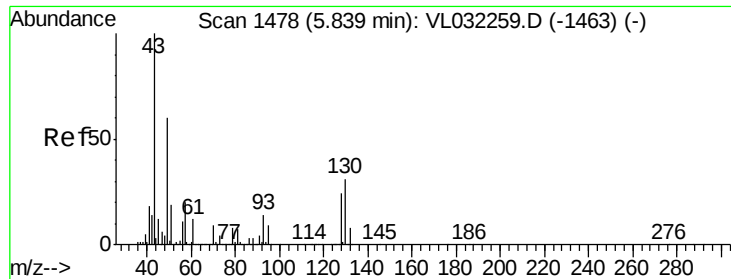
Instrument :
MSVOA_L
ClientSampleId :
B-12

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Quant Time: Jul 19 08:05:12 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

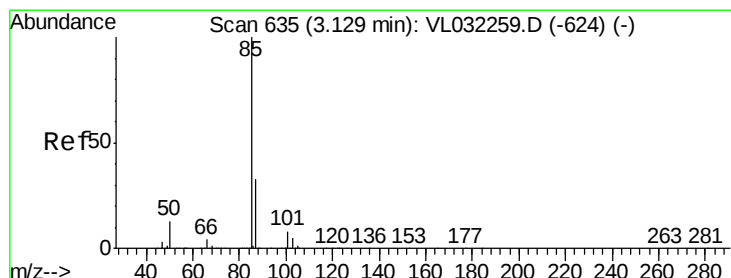
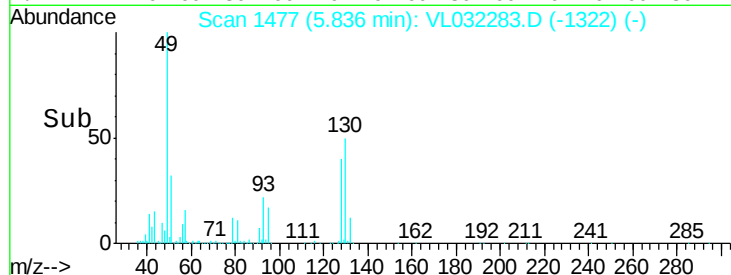
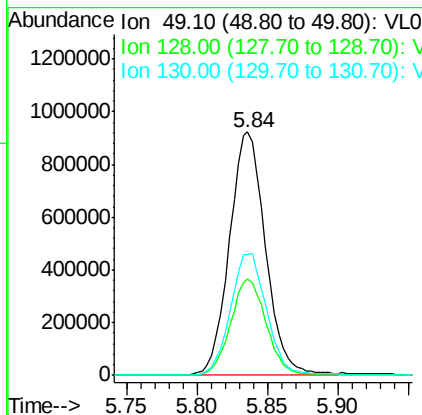
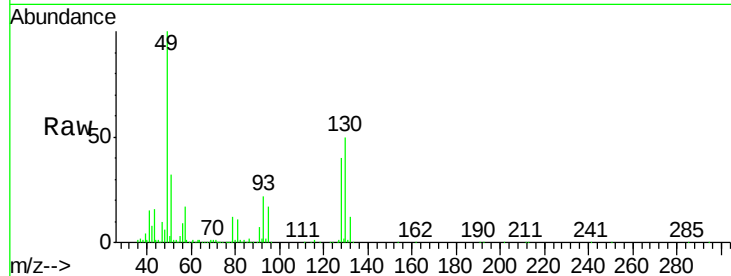
Bromochloromethane
 Concen: 10.00 ppbv
 RT: 5.84 min Scan# 1477
 Delta R.T. -0.00 min
 Lab File: VL032283.D
 Acq: 19 Jul 2018 5:45

Instrument :
 MSVOA_L
 ClientSampled :
 B-12

Tot Ion: 49 Resp: 1649283
 Ion Ratio Lower Upper
 49 100
 128 39.4 20.1 60.2
 130 50.6 25.9 77.6

Manual Integrations
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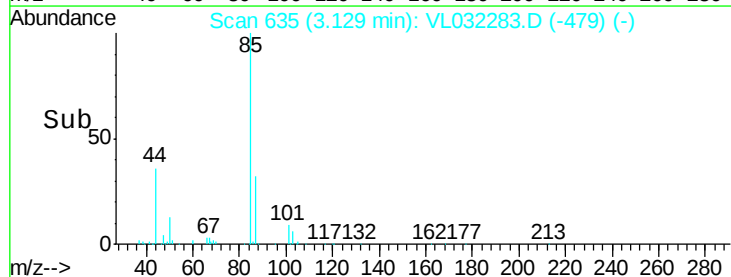
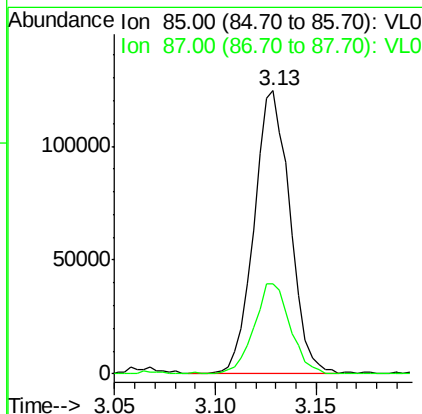
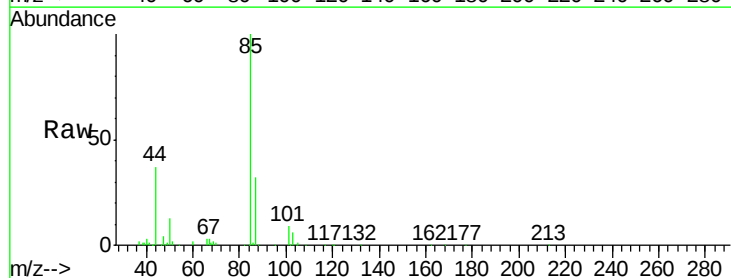
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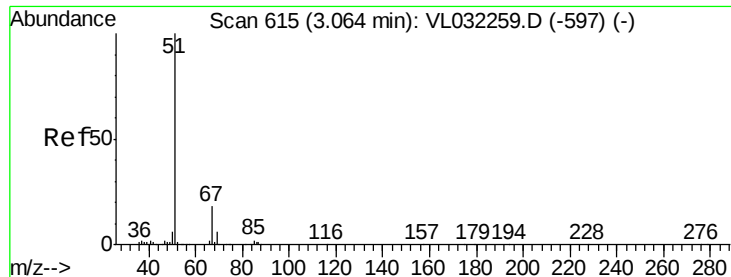


#2

Dichlorodifluoromethane
 Concen: 0.55 ppbv
 RT: 3.13 min Scan# 635
 Delta R.T. -0.00 min
 Lab File: VL032283.D
 Acq: 19 Jul 2018 5:45

Tgt Ion: 85 Resp: 155260
 Ion Ratio Lower Upper
 85 100
 87 31.7 26.2 39.2





#3

Chlorodifluoromethane

Concen: 0.92 ppbv m

RT: 3.06 min Scan# 613

Delta R.T. -0.01 min

Lab File: VL032283.D

Acq: 19 Jul 2018 5:45

Instrument :

MSVOA_L

ClientSampleId :

B-12

Tot Ion: 51 Resp: 169847

Ion Ratio Lower Upper

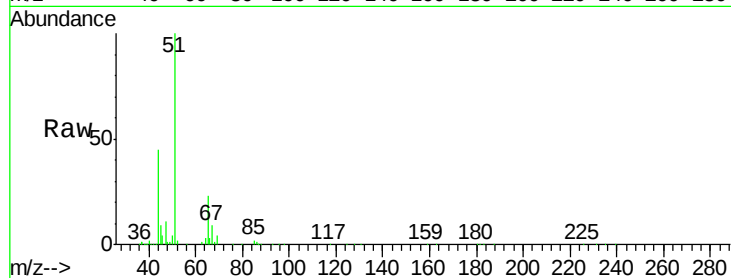
51 100

67 18.5 14.2 21.4

Manual Integrations
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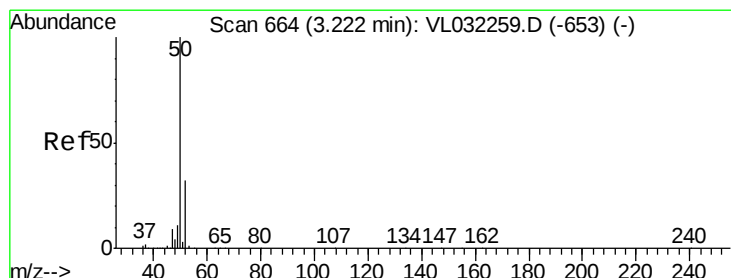
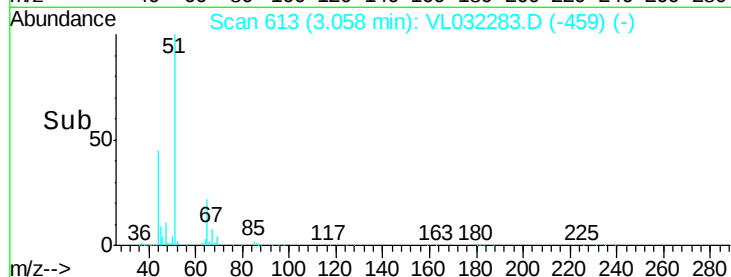
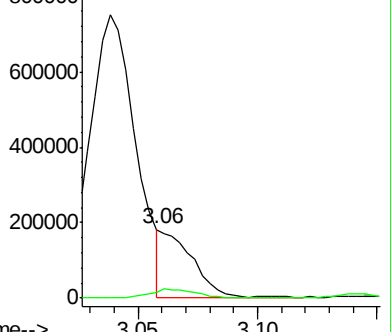
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.58 ppbv

RT: 3.22 min Scan# 664

Delta R.T. -0.00 min

Lab File: VL032283.D

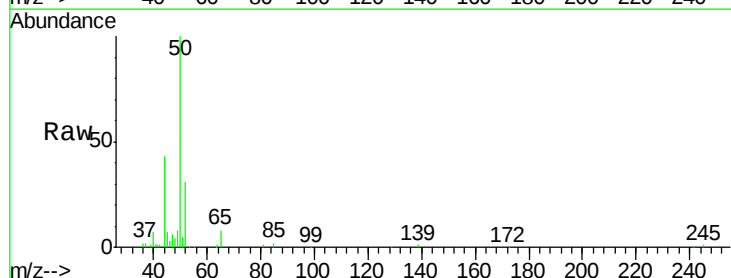
Acq: 19 Jul 2018 5:45

Tgt Ion: 50 Resp: 63429

Ion Ratio Lower Upper

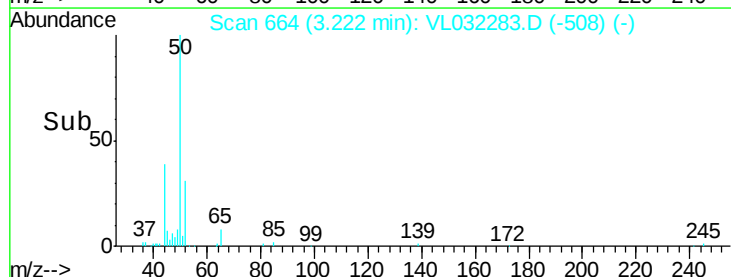
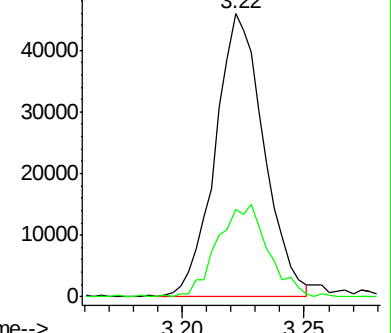
50 100

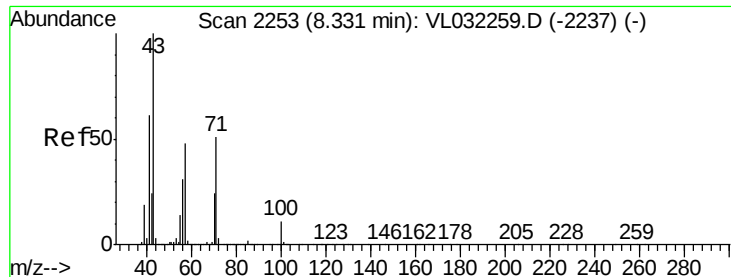
52 30.9 25.3 37.9



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#10

Heptane

Concen: 0.41 ppbv

RT: 8.33 min Scan# 2253

Delta R.T. -0.00 min

Lab File: VL032283.D

Acq: 19 Jul 2018 5:45

Instrument :

MSVOA_L

ClientSampled :

B-12

Tot Ion: 43 Resp: 106414

Ion Ratio Lower Upper

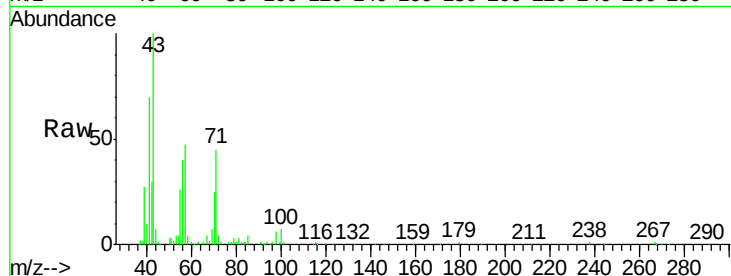
43 100

57 48.3 39.9 59.9

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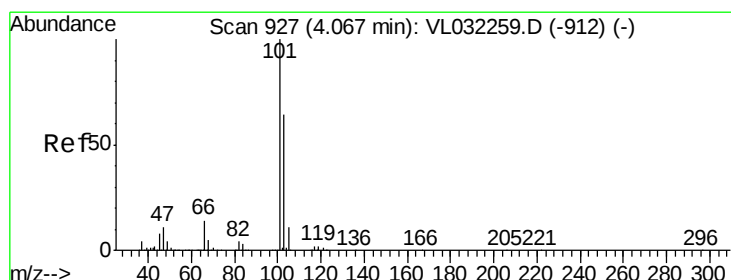
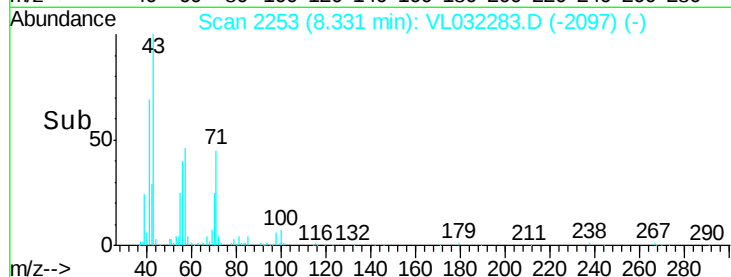
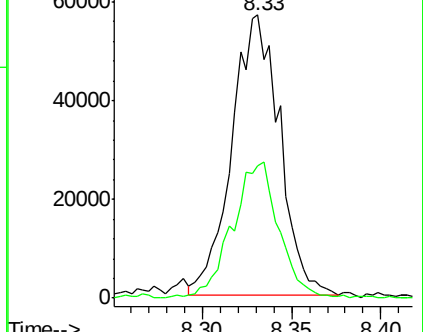
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#11

Trichlorofluoromethane

Concen: 0.26 ppbv

RT: 4.07 min Scan# 927

Delta R.T. -0.00 min

Lab File: VL032283.D

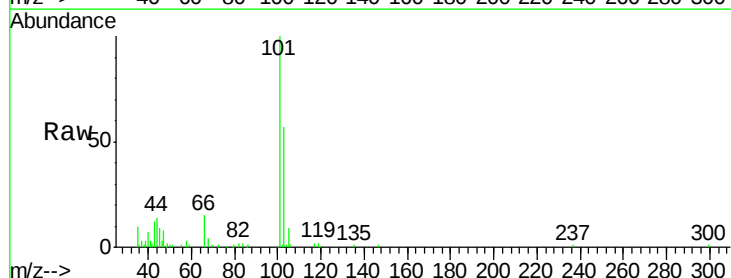
Acq: 19 Jul 2018 5:45

Tgt Ion: 101 Resp: 57283

Ion Ratio Lower Upper

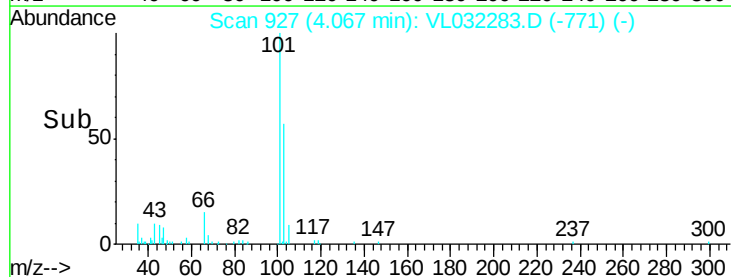
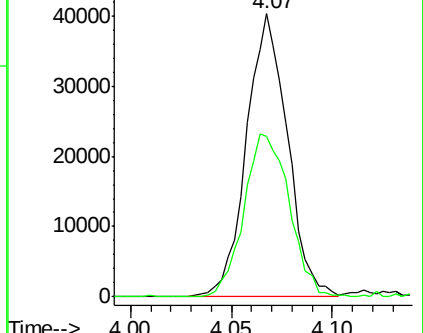
101 100

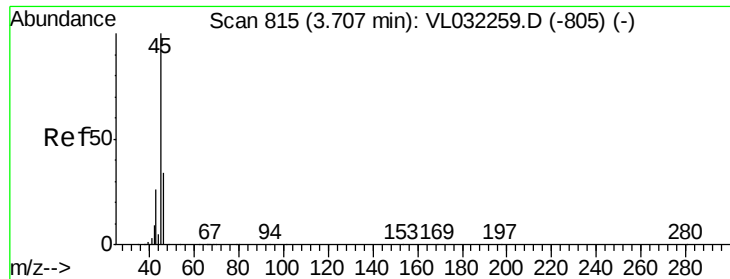
103 56.8 51.5 77.3



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





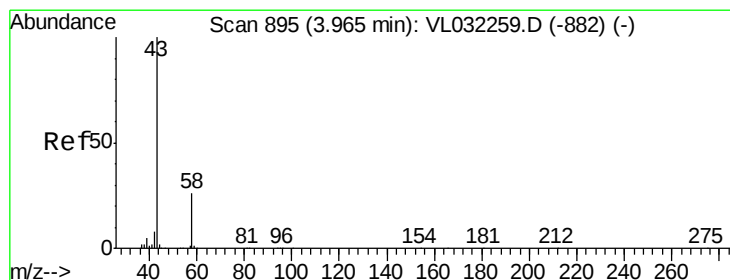
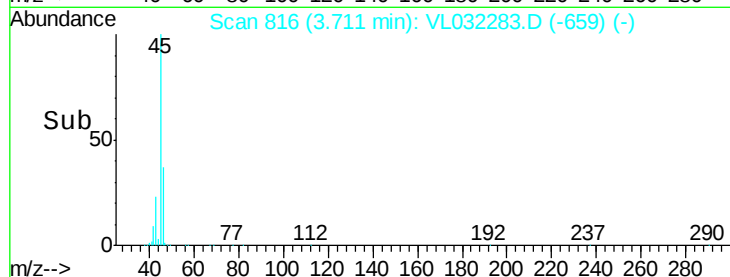
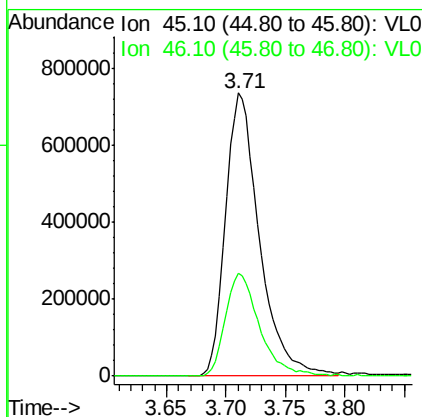
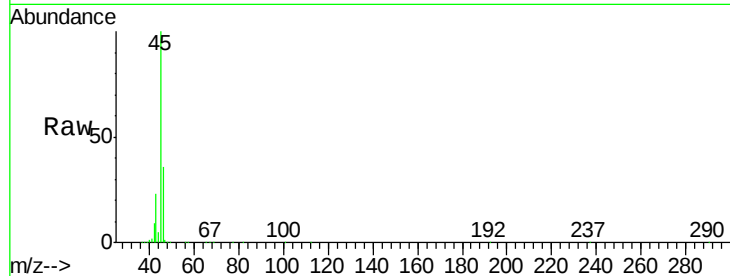
#13
Ethanol
Concen: 63.12 ppbv
RT: 3.71 min Scan# 816
Delta R.T. 0.00 min
Lab File: VL032283.D
Acq: 19 Jul 2018 5:45

Instrument :
MSVOA_L
ClientSampleId :
B-12

Tot Ion: 45 Resp: 1458947
Ion Ratio Lower Upper
45 100
46 37.1 15.2 60.8

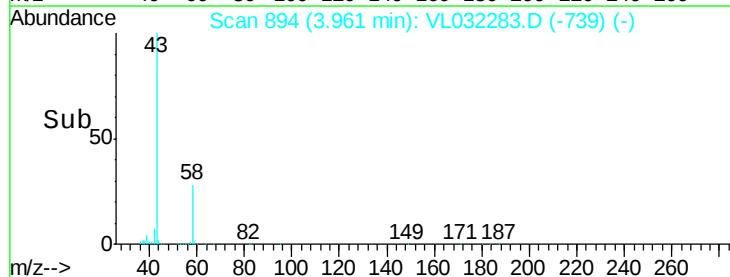
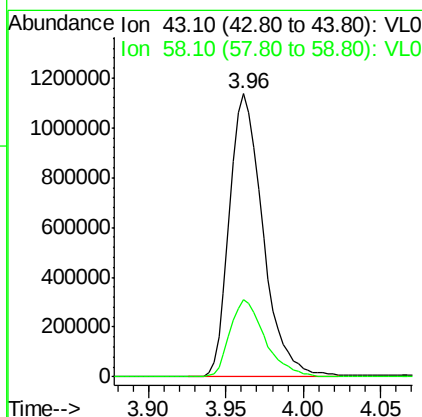
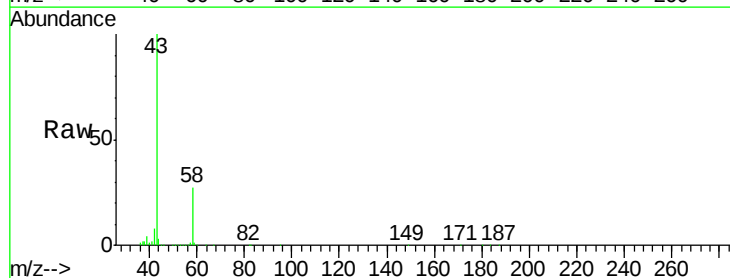
Manual Integrations
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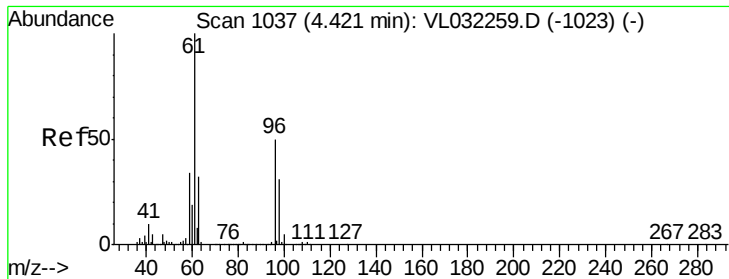
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#15
Acetone
Concen: 9.89 ppbv
RT: 3.96 min Scan# 894
Delta R.T. -0.00 min
Lab File: VL032283.D
Acq: 19 Jul 2018 5:45

Tgt Ion: 43 Resp: 1707564
Ion Ratio Lower Upper
43 100
58 28.7 21.8 32.6





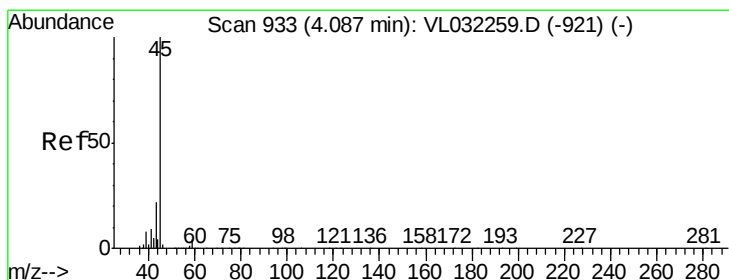
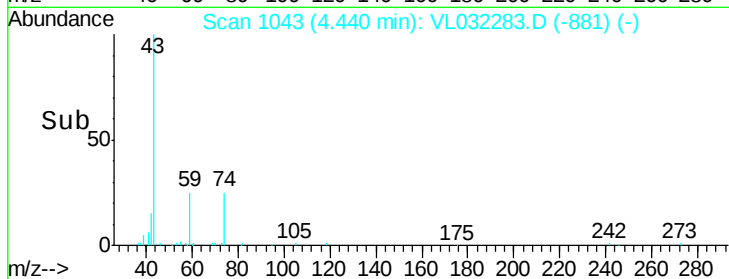
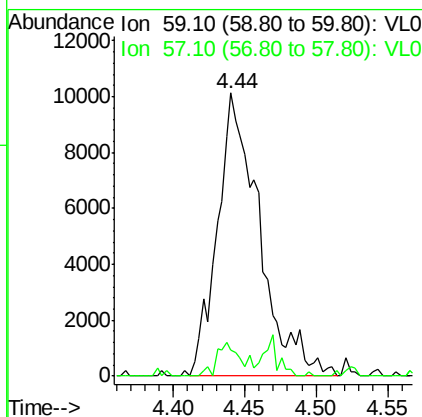
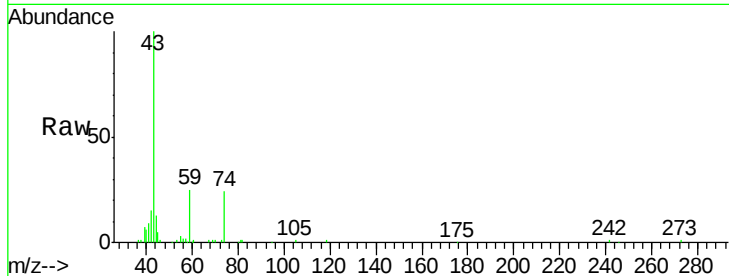
#17
 tert-Butyl alcohol
 Concen: 0.38 ppbv m
 RT: 4.44 min Scan# 1043
 Delta R.T. 0.02 min
 Lab File: VL032283.D
 Acq: 19 Jul 2018 5:45

Instrument :
 MSVOA_L
 ClientSampled :
 B-12

Tot Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.2	12.4#

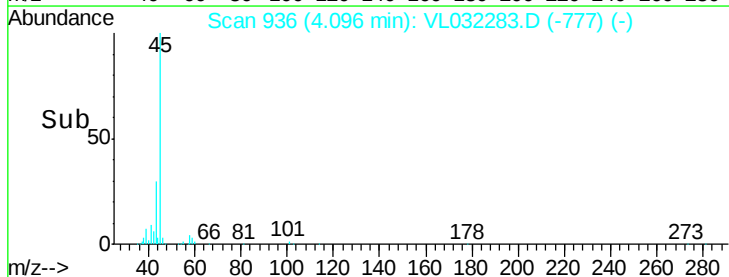
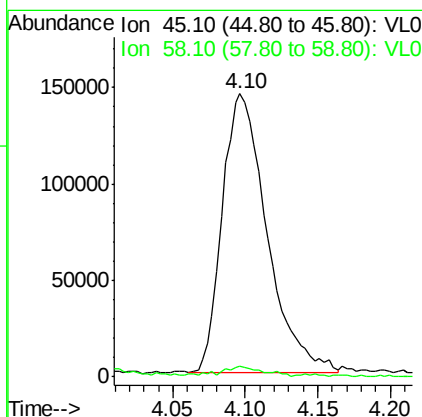
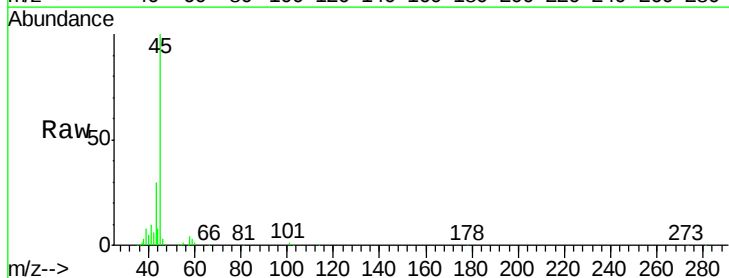
Manual Integrations
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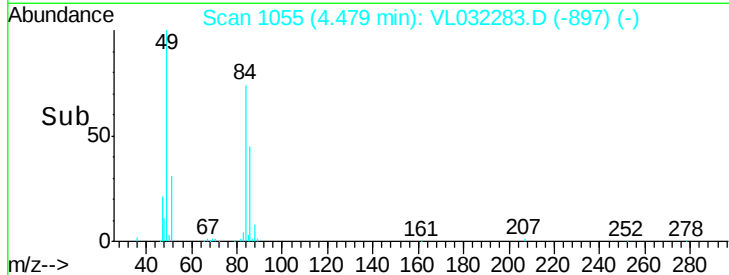
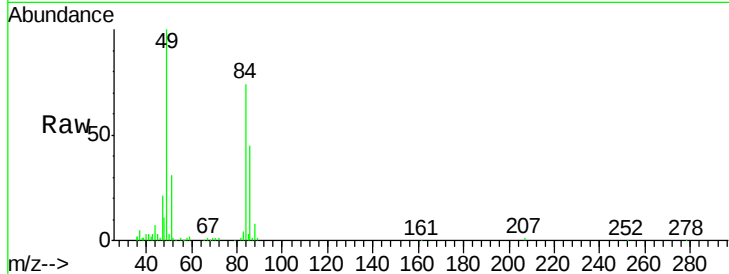
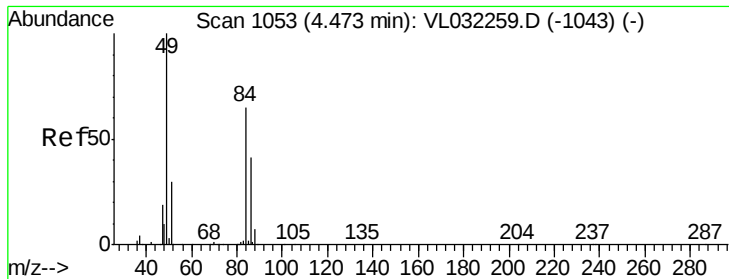
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#19
 Isopropyl Alcohol
 Concen: 2.64 ppbv
 RT: 4.10 min Scan# 936
 Delta R.T. 0.01 min
 Lab File: VL032283.D
 Acq: 19 Jul 2018 5:45

Tgt Ion	Ratio	Lower	Upper
45	100		
58	159.7	1.5	2.3#





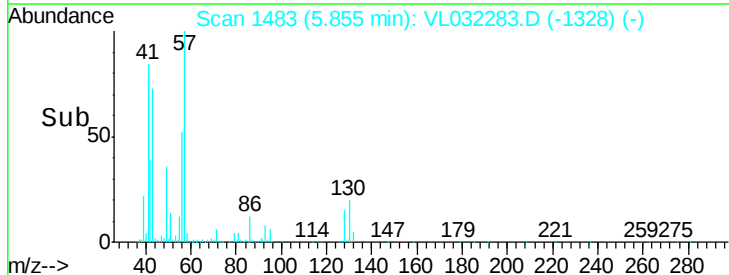
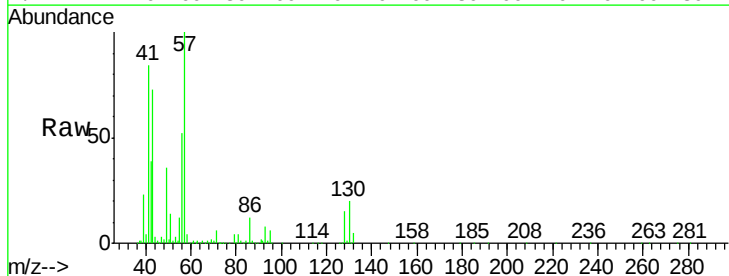
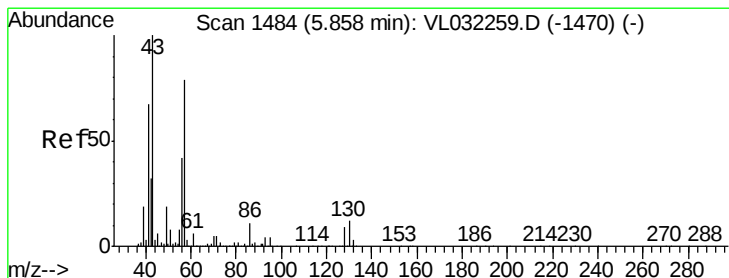
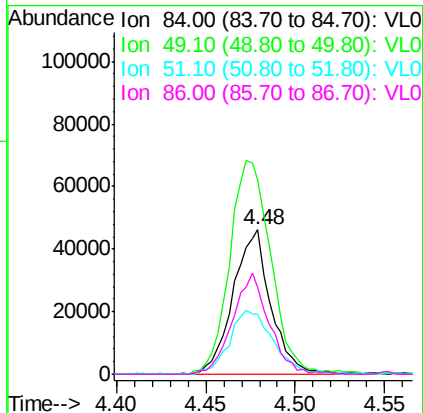
#20
Methvlene Chloride
Concen: 1.02 ppbv
RT: 4.48 min Scan# 1055
Delta R.T. 0.01 min
Lab File: VL032283.D
Acq: 19 Jul 2018 5:45

Tot Ion	Ratio	Lower	Upper
84	100		
49	135.1	122.4	183.6
51	41.9	36.8	55.2
86	60.3	50.7	76.1

Instrument :
MSVOA_L
ClientSampled :
B-12

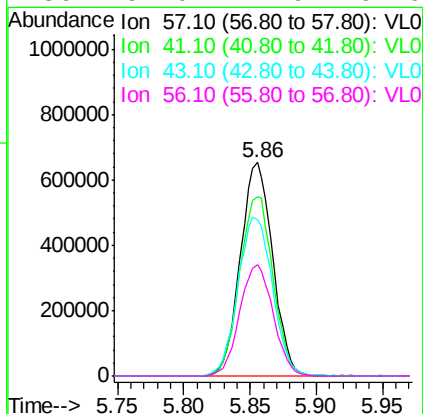
Manual Integrations
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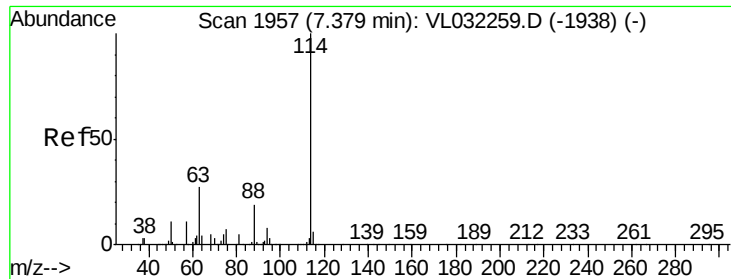
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7/20/2018 2:53:29 PM



#26
Hexane
Concen: 6.40 ppbv
RT: 5.86 min Scan# 1483
Delta R.T. -0.00 min
Lab File: VL032283.D
Acq: 19 Jul 2018 5:45

Tgt Ion	Ratio	Lower	Upper
57	100		
41	87.0	67.9	101.9
43	80.1	175.9	263.9#
56	54.0	41.9	62.9





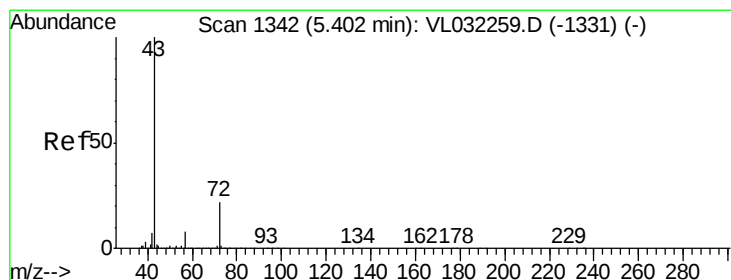
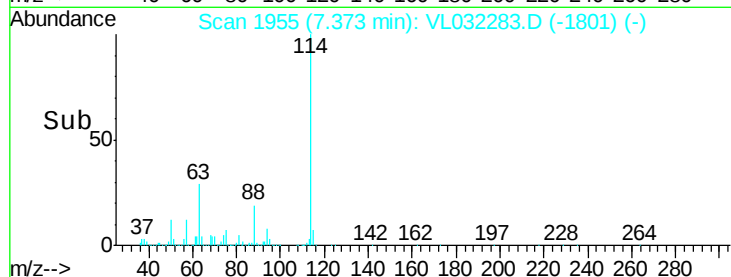
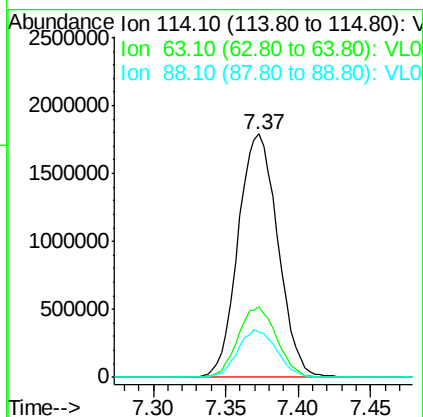
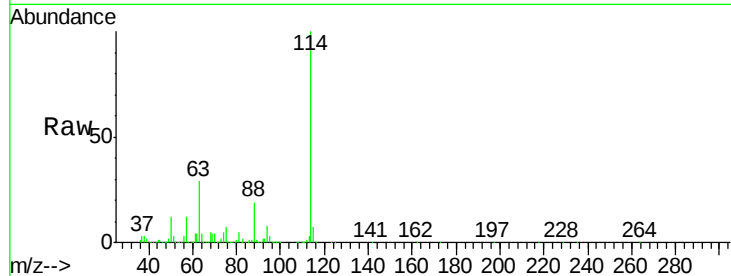
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.37 min Scan# 1955
 Delta R.T. -0.01 min
 Lab File: VL032283.D
 Acq: 19 Jul 2018 5:45

Instrument :
 MSVOA_L
 ClientSampleId :
 B-12

Tot Ion	Ratio	Lower	Upper
114	100		
63	28.3	22.6	33.8
88	19.2	15.2	22.8

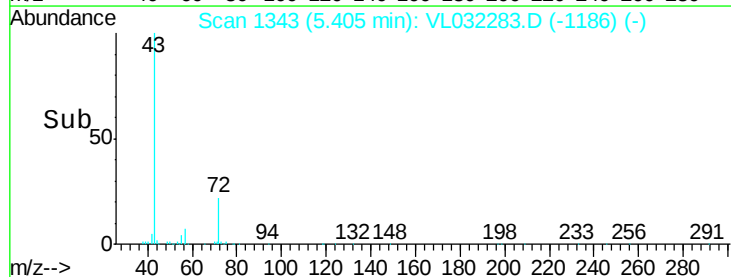
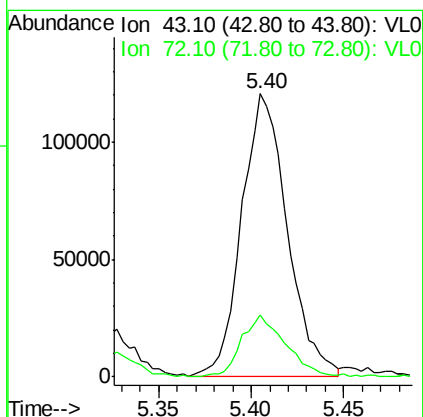
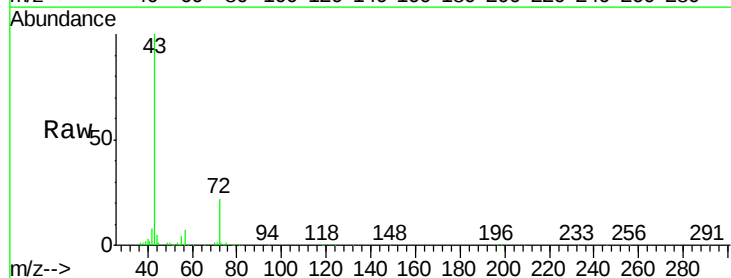
Manual Integrations
 APPROVED

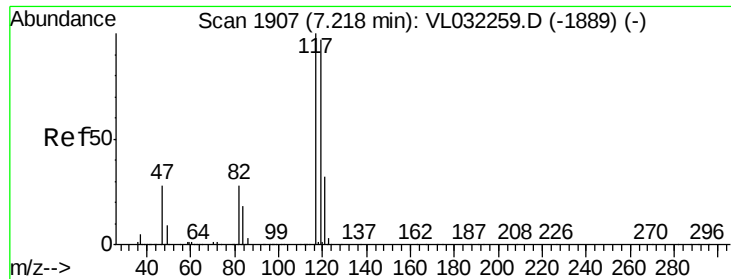
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#34
 2-Butanone
 Concen: 0.87 ppbv
 RT: 5.40 min Scan# 1343
 Delta R.T. 0.00 min
 Lab File: VL032283.D
 Acq: 19 Jul 2018 5:45

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.8	17.7	26.5





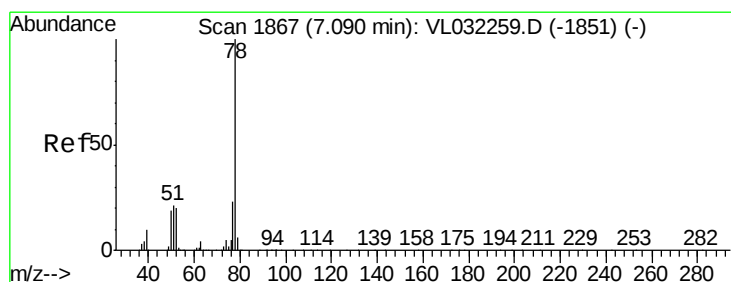
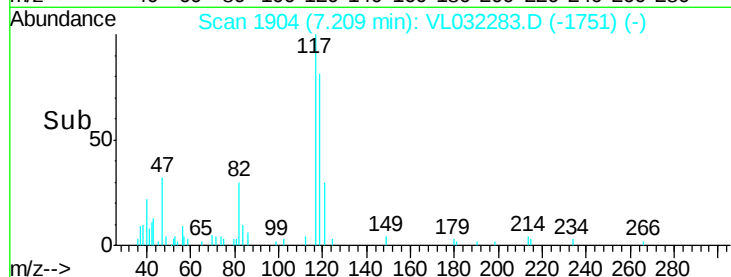
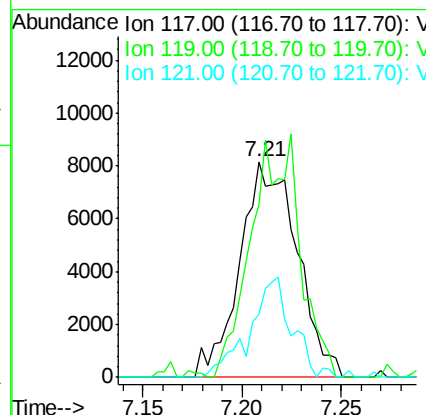
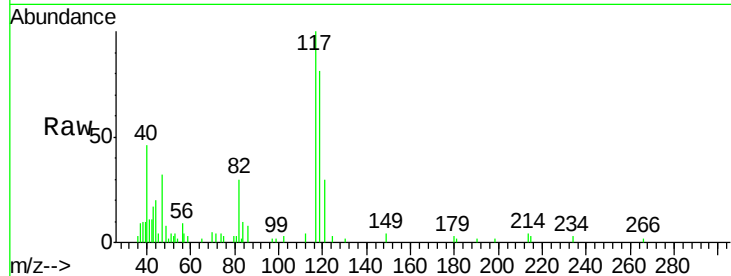
#35
Carbon Tetrachloride
Concen: 0.07 ppbv m
RT: 7.21 min Scan# 1904
Delta R.T. -0.01 min
Lab File: VL032283.D
Acq: 19 Jul 2018 5:45

Instrument :
MSVOA_L
ClientSampled :
B-12

Tot Ion	Ratio	Lower	Upper
117	100		
119	80.5	77.4	116.0
121	29.6	25.4	38.2

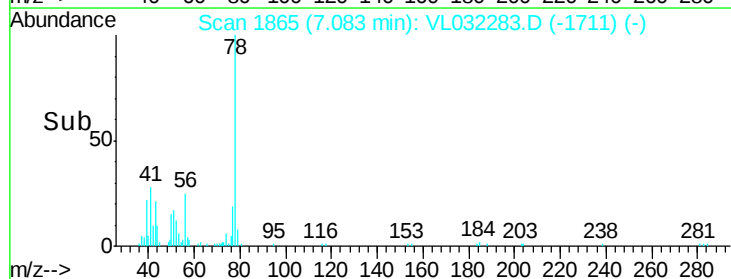
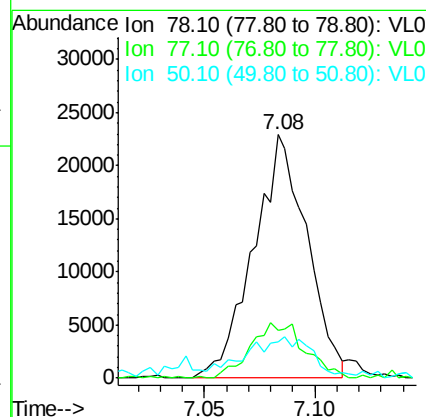
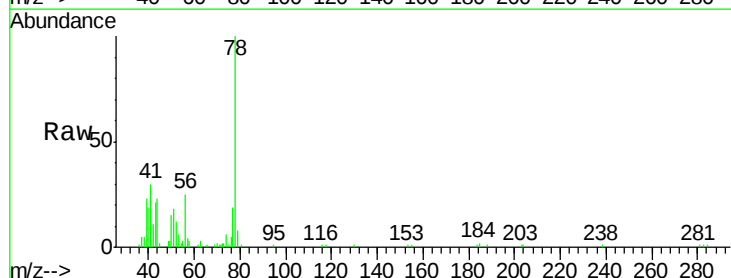
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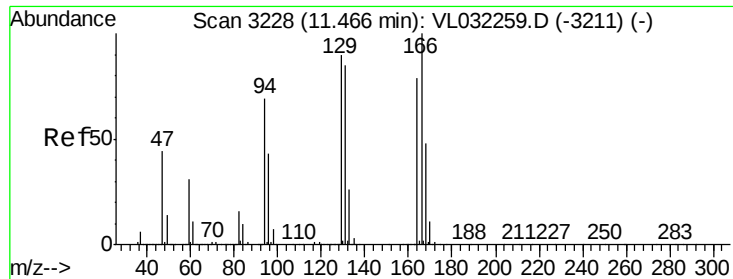
MMDadoda
7/20/2018 2:53:29 PM



#36
Benzene
Concen: 0.11 ppbv
RT: 7.08 min Scan# 1865
Delta R.T. -0.01 min
Lab File: VL032283.D
Acq: 19 Jul 2018 5:45

Tgt Ion	Ratio	Lower	Upper
78	100		
77	19.4	18.6	27.8
50	12.2	15.0	22.6#





#52

Tetrachloroethene

Concen: 0.06 ppbv m

RT: 11.46 min Scan# 3225

Delta R.T. -0.01 min

Lab File: VL032283.D

Acq: 19 Jul 2018 5:45

Instrument :

MSVOA_L

ClientSampled :

B-12

Tot Ion:164 Resp: 6757

Ion Ratio Lower Upper

164 100

166 84.6 101.7 152.5#

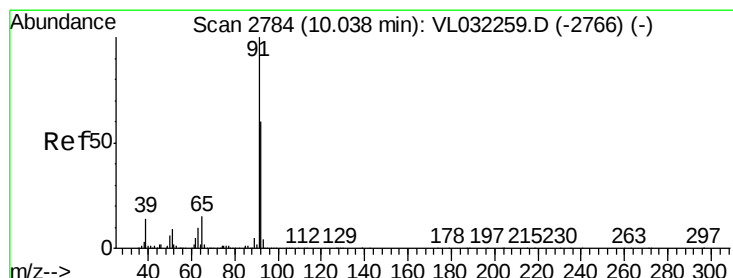
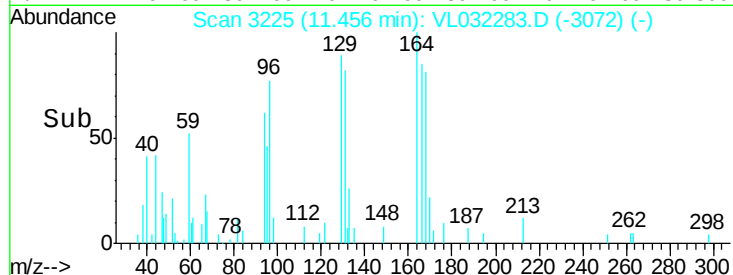
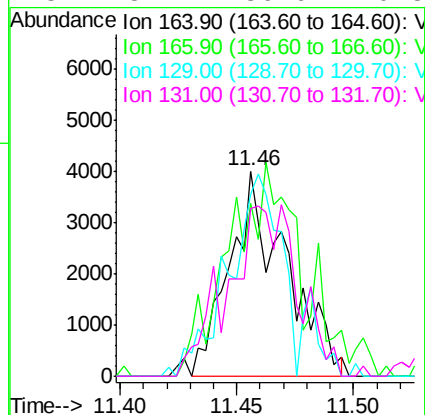
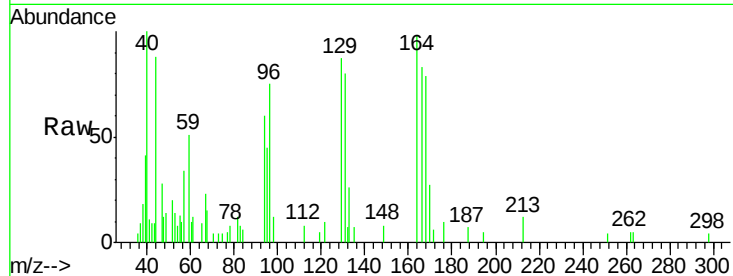
129 88.6 91.5 137.3#

131 81.7 86.6 129.8#

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7/20/2018 2:53:29 PM



#53

Toluene

Concen: 0.42 ppbv

RT: 10.03 min Scan# 2782

Delta R.T. -0.01 min

Lab File: VL032283.D

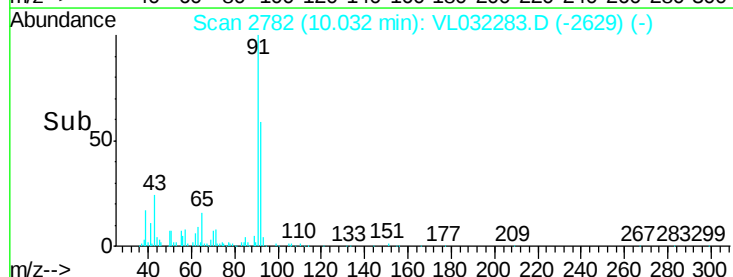
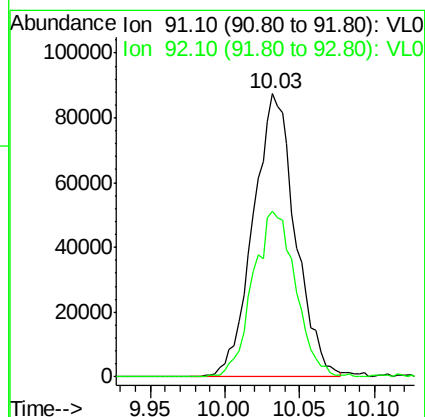
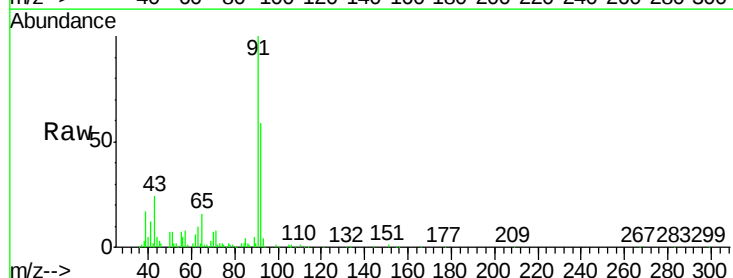
Acq: 19 Jul 2018 5:45

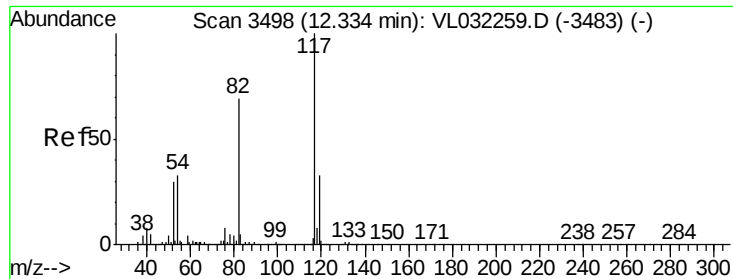
Tgt Ion: 91 Resp: 171195

Ion Ratio Lower Upper

91 100

92 59.3 48.6 72.8





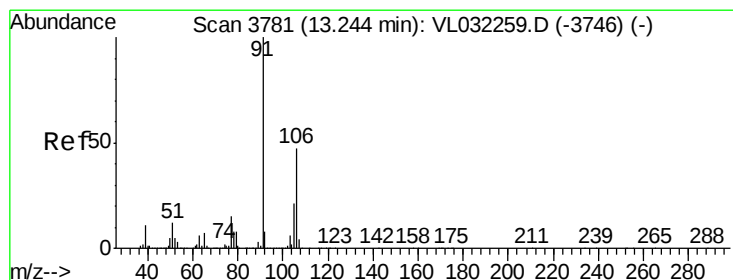
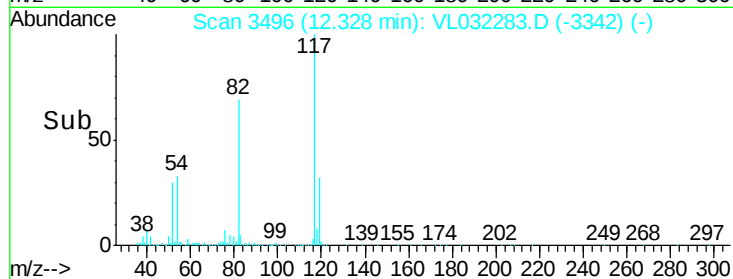
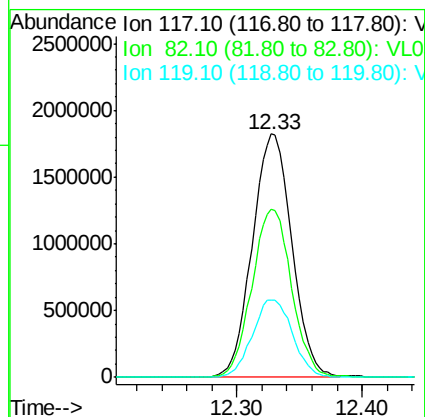
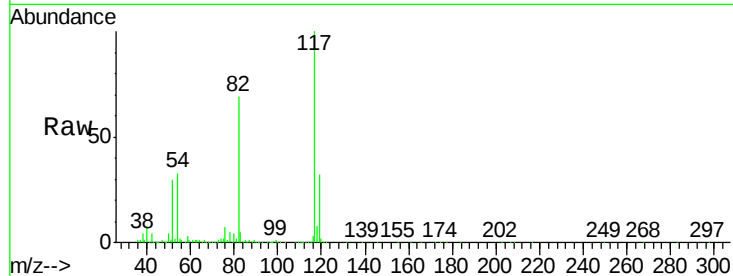
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.33 min Scan# 3496
Delta R.T. -0.01 min
Lab File: VL032283.D
Acq: 19 Jul 2018 5:45

Instrument :
MSVOA_L
ClientSampled :
B-12

Tot Ion	Ratio	Lower	Upper
117	100		
82	69.7	53.9	80.9
119	32.6	25.5	38.3

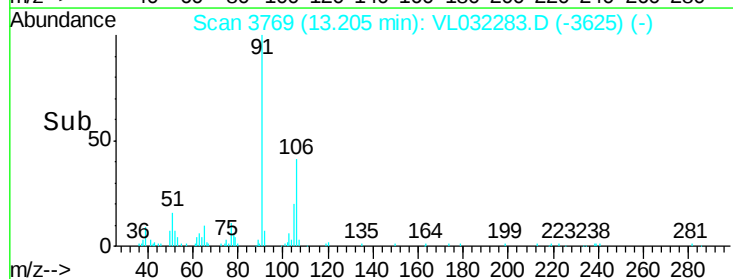
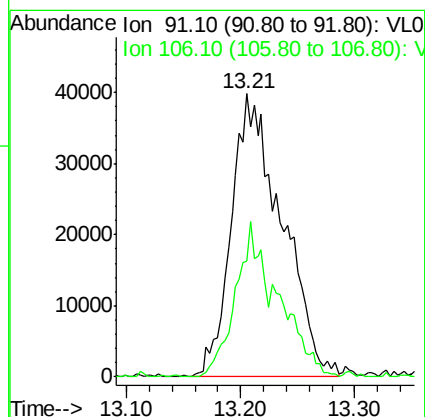
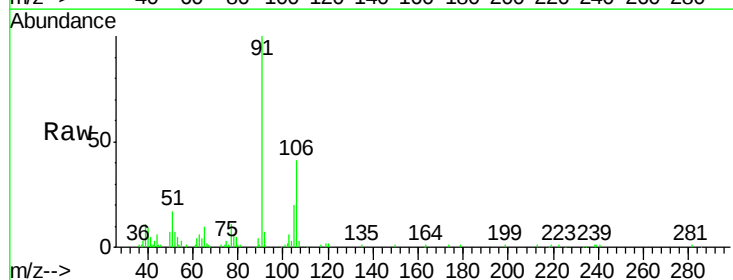
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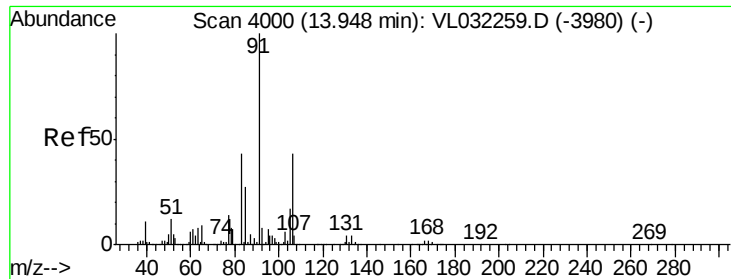
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7/20/2018 2:53:29 PM



#59
m/p-Xylene
Concen: 0.25 ppbv m
RT: 13.21 min Scan# 3769
Delta R.T. -0.04 min
Lab File: VL032283.D
Acq: 19 Jul 2018 5:45

Tgt Ion	Ratio	Lower	Upper
91	100		
106	0.0	36.2	54.2#





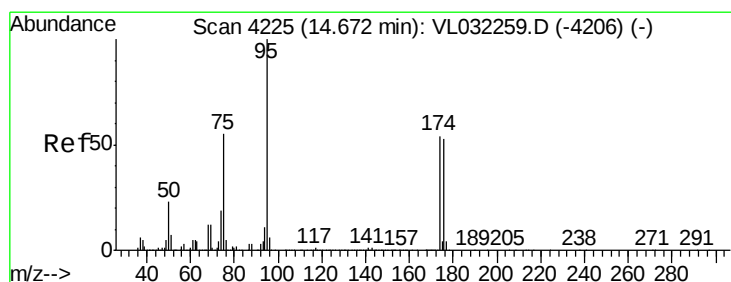
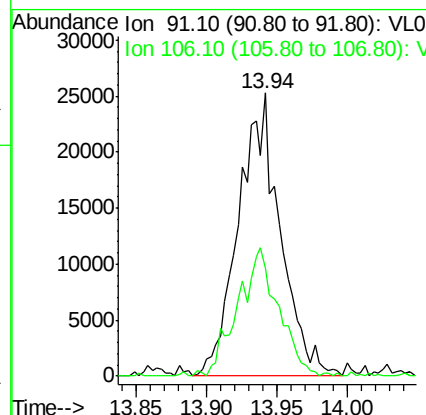
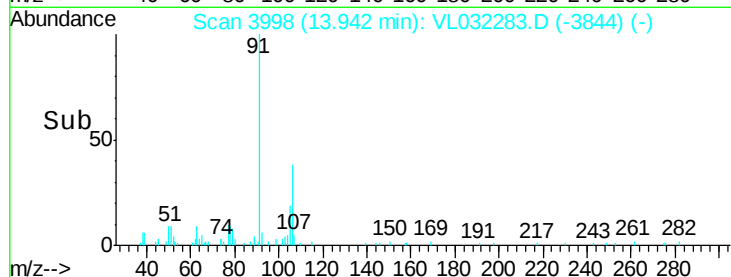
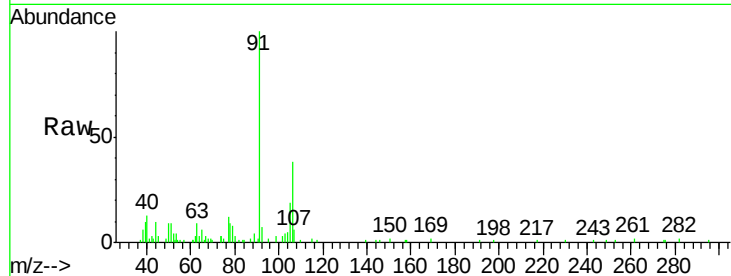
#60
o-Xylene
Concen: 0.11 ppbv m
RT: 13.94 min Scan# 3998
Delta R.T. -0.01 min
Lab File: VL032283.D
Acq: 19 Jul 2018 5:45

Instrument :
MSVOA_L
ClientSampled :
B-12

Tot Ion: 91 Resp: 51976
Ion Ratio Lower Upper
91 100
106 44.6 21.7 65.1

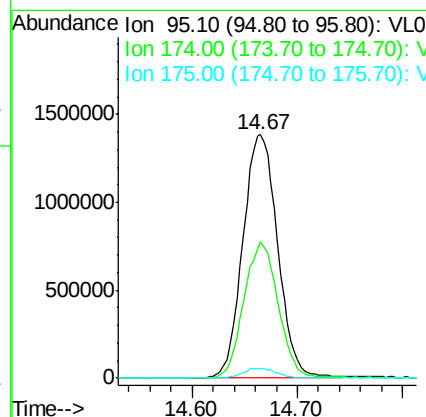
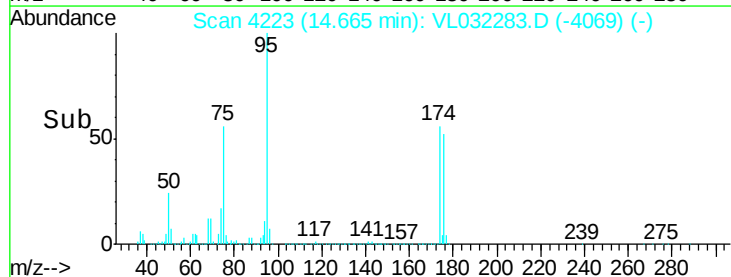
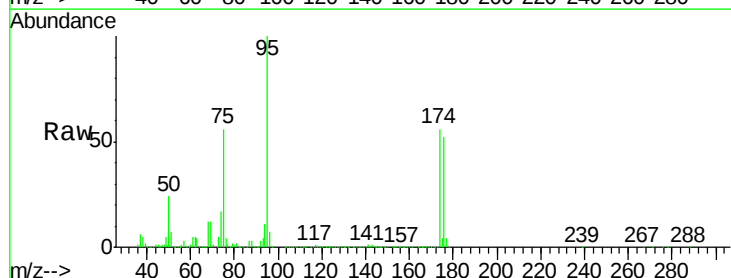
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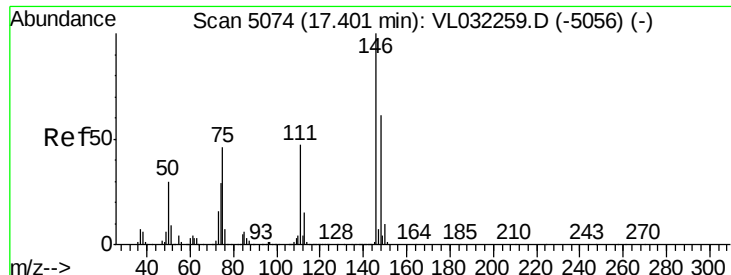
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7/20/2018 2:53:29 PM



#68
1-Bromo-4-Fluorobenzene
Concen: 9.82 ppbv
RT: 14.67 min Scan# 4223
Delta R.T. -0.01 min
Lab File: VL032283.D
Acq: 19 Jul 2018 5:45

Tgt Ion: 95 Resp: 3181304
Ion Ratio Lower Upper
95 100
174 56.1 44.3 66.5
175 4.0 3.3 4.9





#76

1,4-Dichlorobenzene

Concen: 0.13 ppbv m

RT: 17.40 min Scan# 5073

Delta R.T. -0.00 min

Lab File: VL032283.D

Acq: 19 Jul 2018 5:45

Instrument :

MSVOA_L

ClientSampleId :

B-12

Tot Ion:	146	Resp:	40549
Ion Ratio	Lower	Upper	
146	100		
111	0.0	24.1	72.2#
148	0.0	31.9	95.9#

Manual Integrations
APPROVED

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7/20/2018 2:53:29 PM

