

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL071818\
 Data File : VL032281.D
 Acq On : 19 Jul 2018 4:27
 Operator : SY/AP
 Sample : J3454-06
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 B-10

Manual Integrations
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MMDadoda
 7/20/2018 2:53:27 PM

Quant Time: Jul 19 07:55:16 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL071818AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jul 18
 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	1657115	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.37	114	3356263	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.33	117	3984177	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.66	95	3140639	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	129811	0.46	ppbv	98
3) Chlorodifluoromethane	3.06	51	85242m	0.46	ppbv	
4) Chloromethane	3.22	50	59680	0.55	ppbv	92
11) Trichlorofluoromethane	4.07	101	55855	0.25	ppbv	93
13) Ethanol	3.71	45	1658430	71.42	ppbv	97
15) Acetone	3.96	43	1550164	8.94	ppbv	97
17) tert-Butyl alcohol	4.44	59	14917m	0.27	ppbv	
19) Isopropyl Alcohol	4.09	45	335713	2.86	ppbv #	1
20) Methylene Chloride	4.47	84	77678	1.16	ppbv	93
26) Hexane	5.86	57	204310	1.18	ppbv #	57
34) 2-Butanone	5.40	43	137558	0.60	ppbv	99
35) Carbon Tetrachloride	7.22	117	15947m	0.07	ppbv	
53) Toluene	10.04	91	100027	0.25	ppbv	99
59) m/p-Xylene	13.21	91	88035m	0.18	ppbv	

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

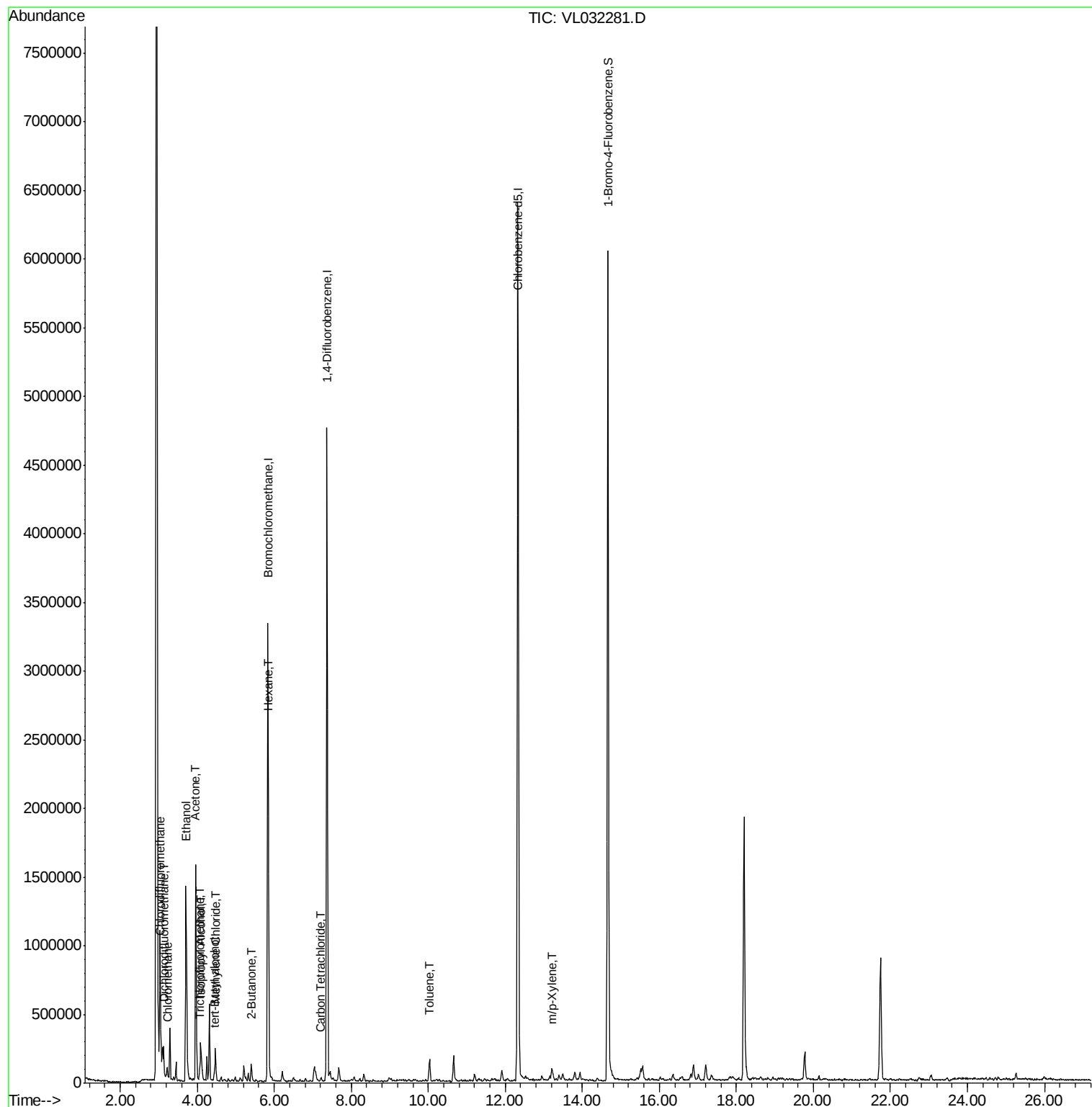
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL071818\
Data File : VL032281.D
Acq On : 19 Jul 2018 4:27
Operator : SY/AP
Sample : J3454-06
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

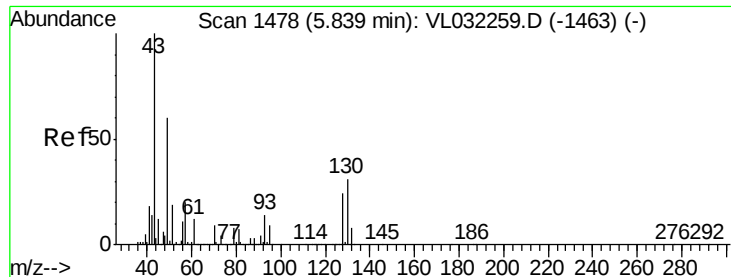
Instrument :
MSVOA_L
ClientSampleId :
B-10

Manual Integrations
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Quant Time: Jul 19 07:55:16 2018
Quant Method : Z:\V0ASRV\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

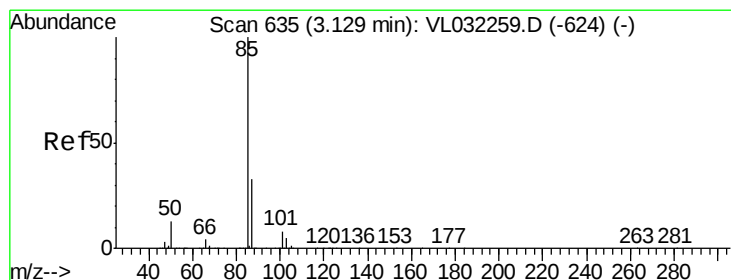
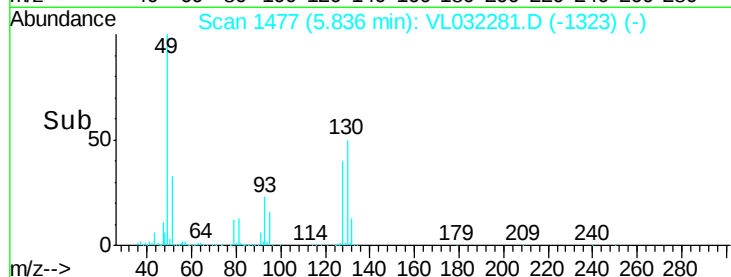
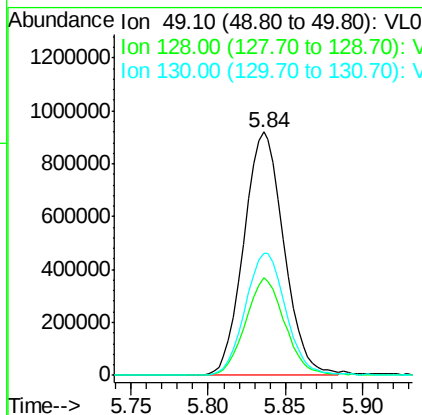
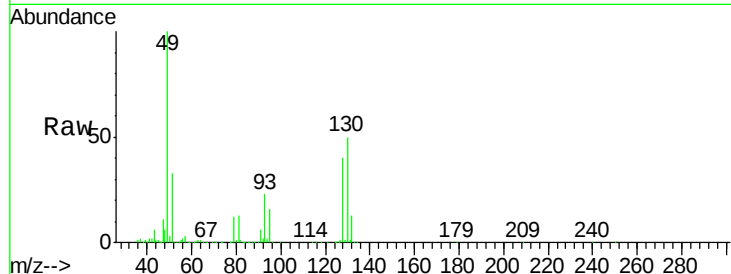
Bromochloromethane
 Concen: 10.00 ppbv
 RT: 5.84 min Scan# 1477
 Delta R.T. -0.00 min
 Lab File: VL032281.D
 Acq: 19 Jul 2018 4:27

Instrument :
 MSVOA_L
 ClientSampleId :
 B-10

Tot Ion	Ratio	Lower	Upper
49	100		
128	39.6	20.1	60.2
130	51.5	25.9	77.6

Manual Integrations
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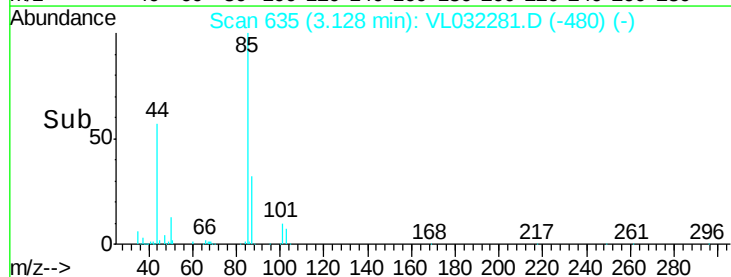
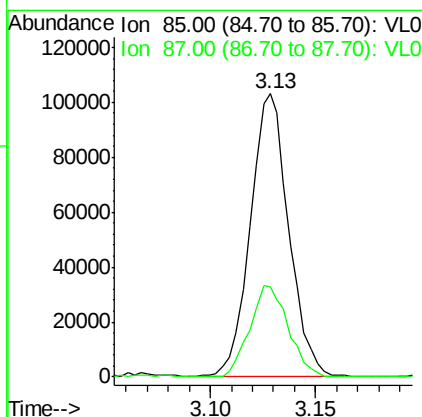
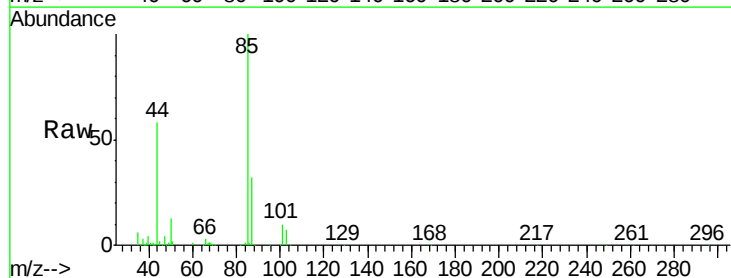
MMDadoda
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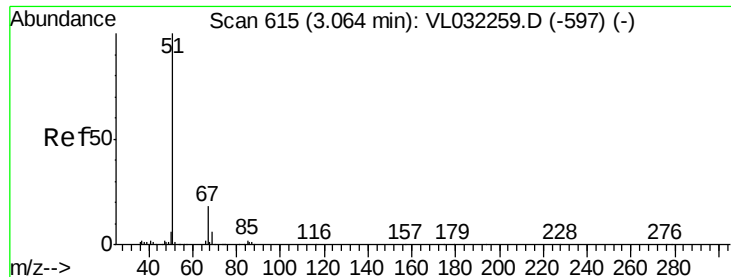


#2

Dichlorodifluoromethane
 Concen: 0.46 ppbv
 RT: 3.13 min Scan# 635
 Delta R.T. -0.00 min
 Lab File: VL032281.D
 Acq: 19 Jul 2018 4:27

Tgt Ion	Ratio	Lower	Upper
85	100		
87	31.7	26.2	39.2





#3

Chlorodifluoromethane

Concen: 0.46 ppbv m

RT: 3.06 min Scan# 613

Delta R.T. -0.01 min

Lab File: VL032281.D

Acq: 19 Jul 2018 4:27

Instrument :

MSVOA_L

ClientSampleId :

B-10

Tot Ion: 51 Resp: 85242

Ion Ratio Lower Upper

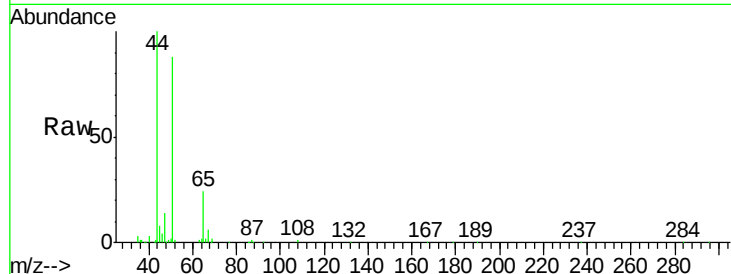
51 100

67 17.8 14.2 21.4

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

Ion 67.00 (66.70 to 67.70): VL0

500000

400000

300000

200000

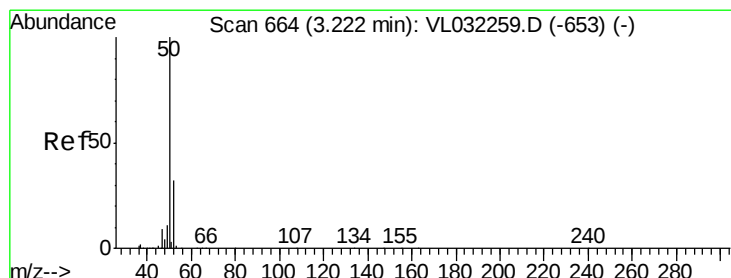
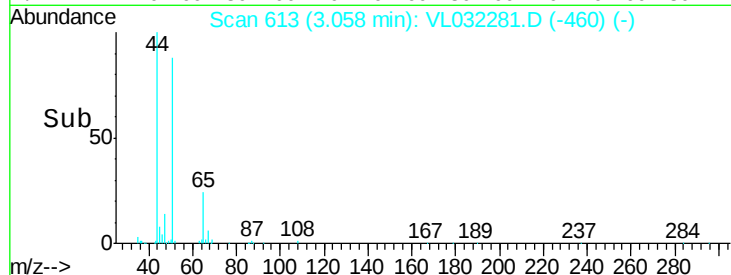
100000

0

3.05

3.10

Time-->



#4

Chloromethane

Concen: 0.55 ppbv

RT: 3.22 min Scan# 665

Delta R.T. 0.00 min

Lab File: VL032281.D

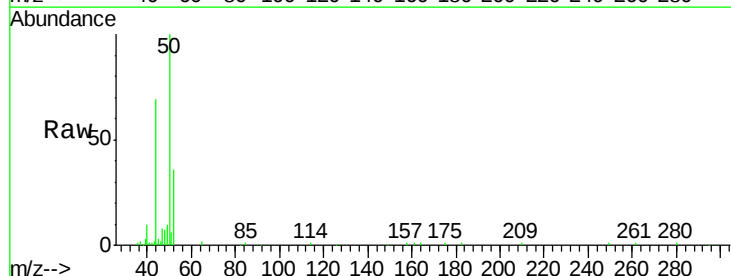
Acq: 19 Jul 2018 4:27

Tgt Ion: 50 Resp: 59680

Ion Ratio Lower Upper

50 100

52 36.1 25.3 37.9



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

40000

30000

20000

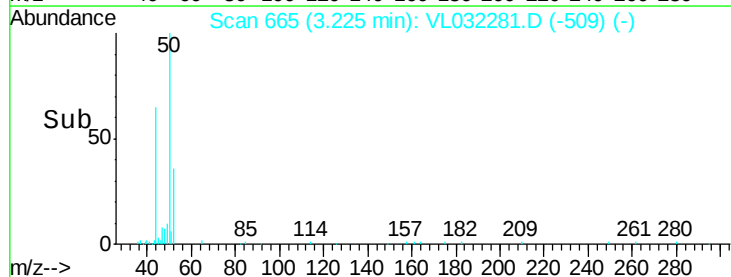
10000

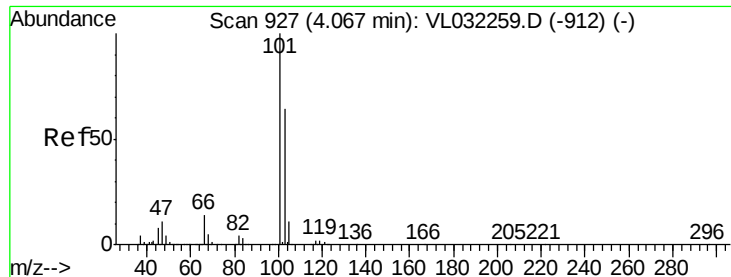
0

3.20

3.25

Time-->





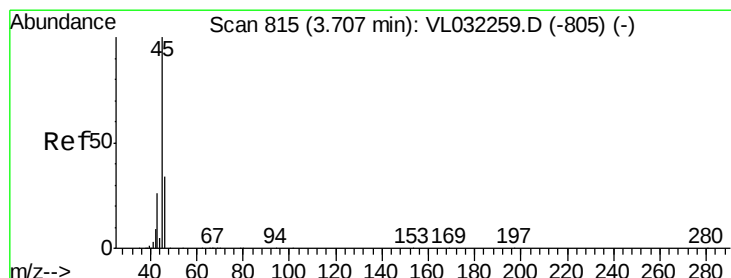
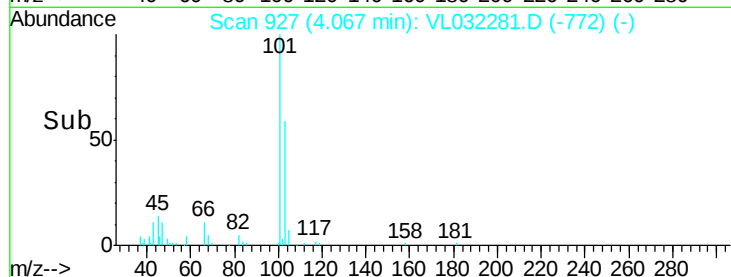
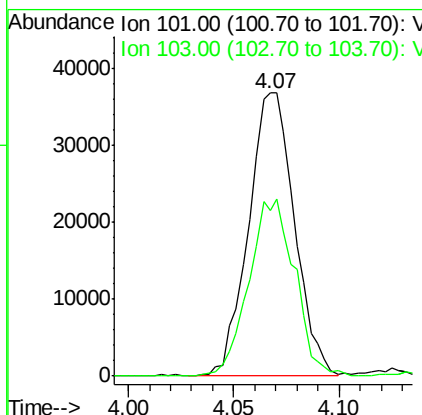
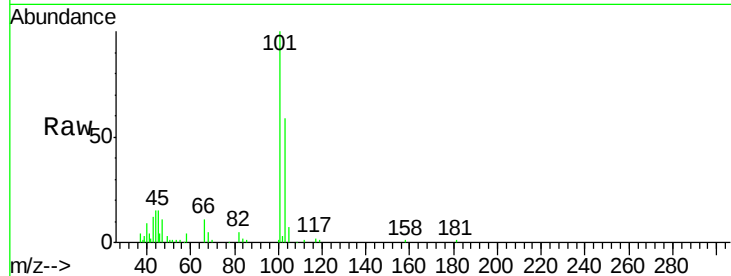
#11
 Trichlorofluoromethane
 Concen: 0.25 ppbv
 RT: 4.07 min Scan# 927
 Delta R.T. -0.00 min
 Lab File: VL032281.D
 Acq: 19 Jul 2018 4:27

Instrument :
 MSVOA_L
 ClientSampleId :
 B-10

Tot Ion	Ratio	Lower	Upper
101	100		
103	58.6	51.5	77.3

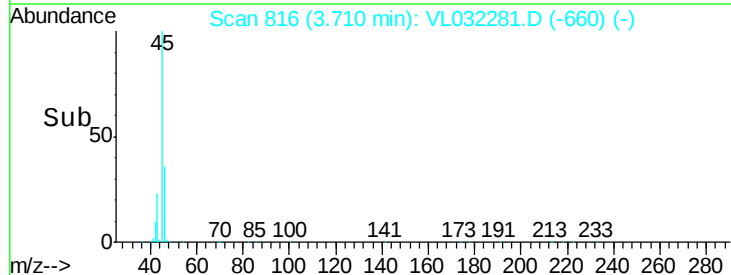
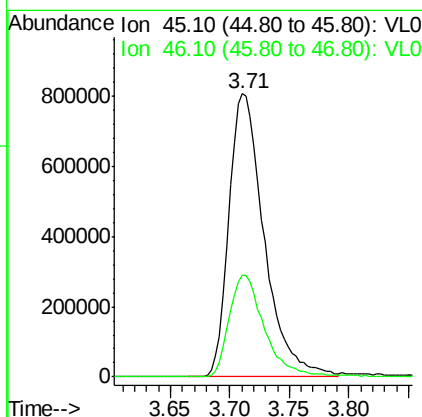
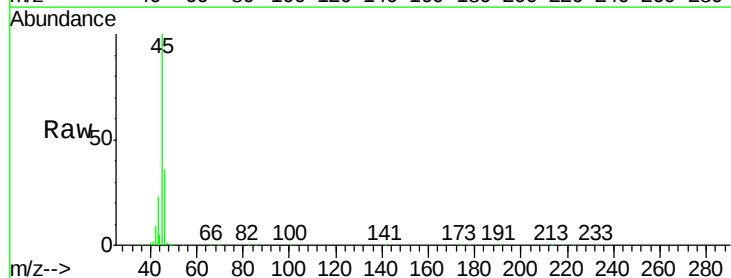
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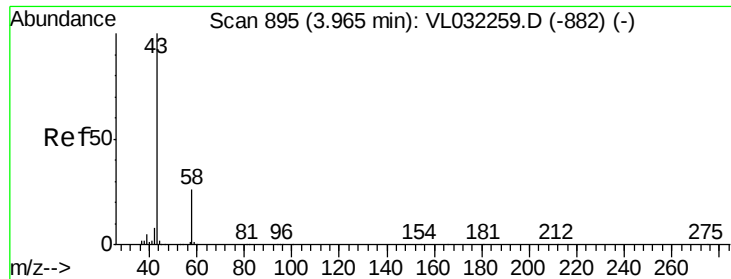
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#13
 Ethanol
 Concen: 71.42 ppbv
 RT: 3.71 min Scan# 816
 Delta R.T. 0.00 min
 Lab File: VL032281.D
 Acq: 19 Jul 2018 4:27

Tgt Ion	Ratio	Lower	Upper
45	100		
46	36.4	15.2	60.8





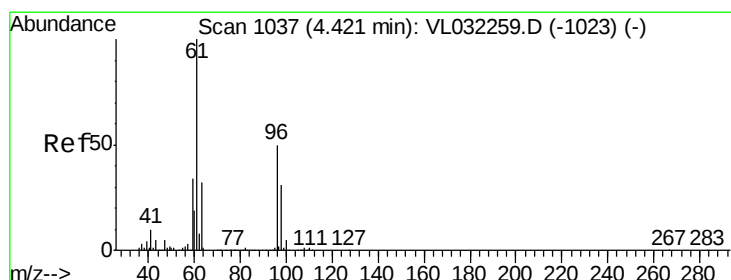
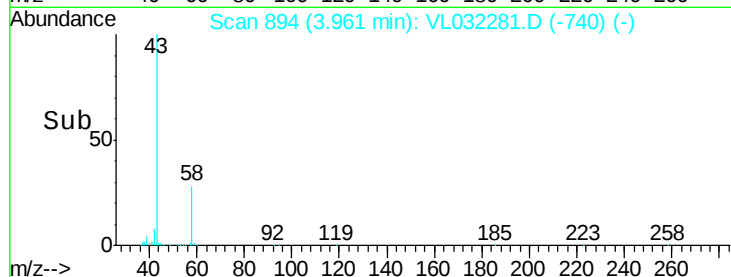
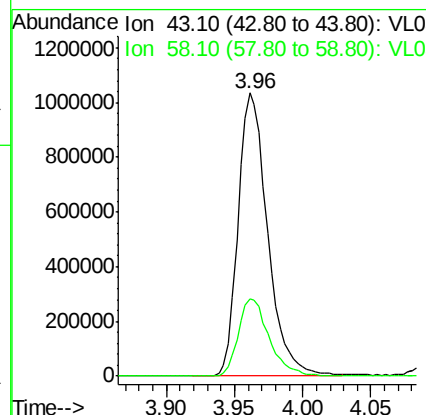
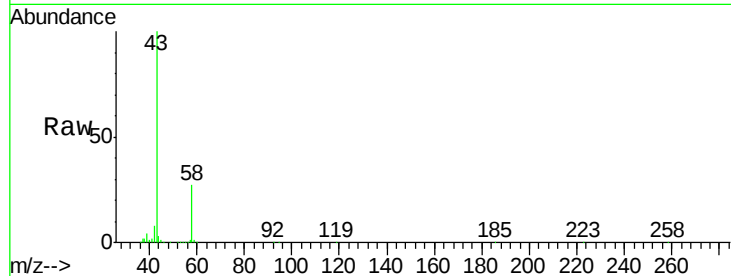
#15
Acetone
Concen: 8.94 ppbv
RT: 3.96 min Scan# 894
Delta R.T. -0.00 min
Lab File: VL032281.D
Acq: 19 Jul 2018 4:27

Instrument :
MSVOA_L
ClientSampleId :
B-10

Tot Ion: 43 Resp: 1550164
Ion Ratio Lower Upper
43 100
58 28.9 21.8 32.6

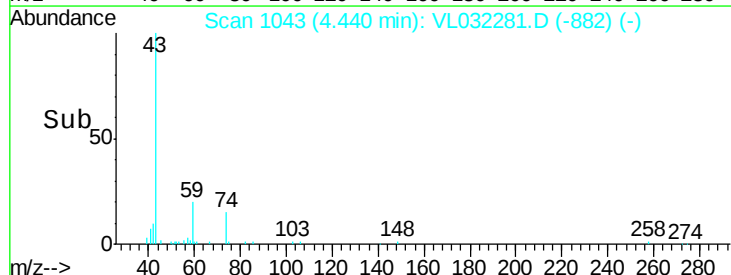
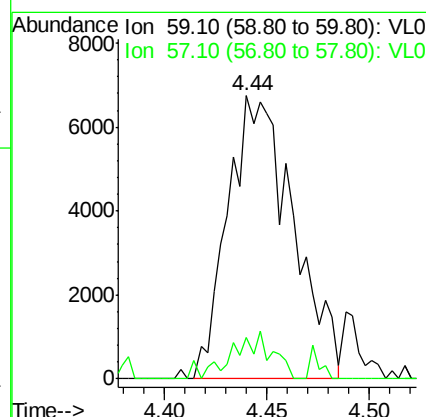
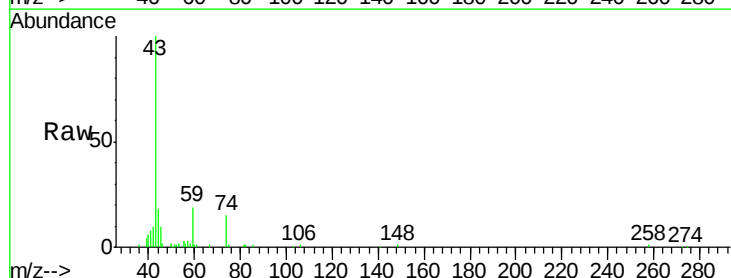
Manual Integrations
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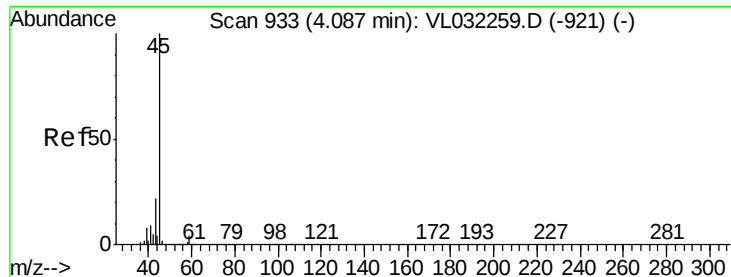
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#17
tert-Butyl alcohol
Concen: 0.27 ppbv m
RT: 4.44 min Scan# 1043
Delta R.T. 0.02 min
Lab File: VL032281.D
Acq: 19 Jul 2018 4:27

Tgt Ion: 59 Resp: 14917
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#





#19

Isopropyl Alcohol

Concen: 2.86 ppbv

RT: 4.09 min Scan# 935

Delta R.T. 0.01 min

Lab File: VL032281.D

Acq: 19 Jul 2018 4:27

Instrument :

MSVOA_L

ClientSampleId :

B-10

Tot Ion: 45 Resp: 335713

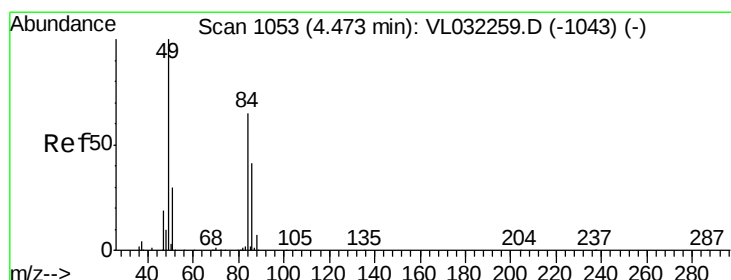
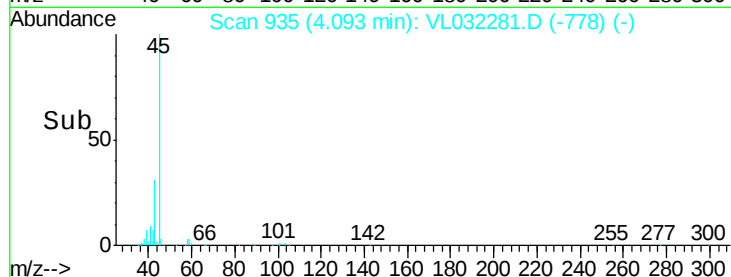
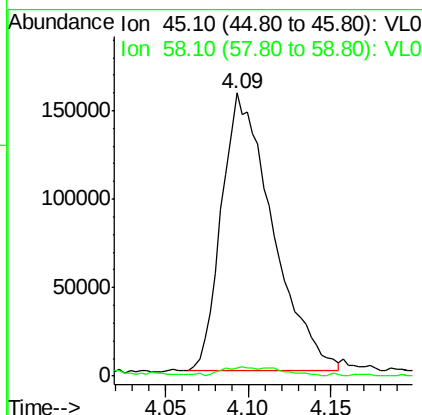
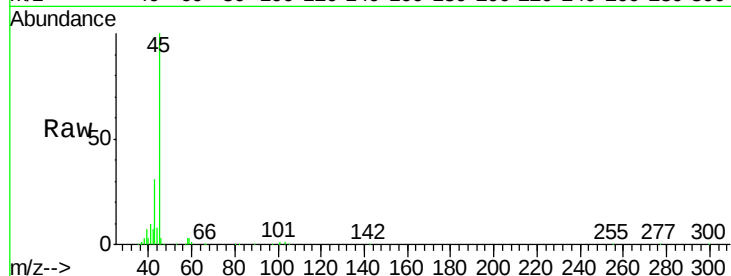
Ion Ratio Lower Upper

45 100

58 133.2 1.5 2.3#

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#20

Methylene Chloride

Concen: 1.16 ppbv

RT: 4.47 min Scan# 1053

Delta R.T. -0.00 min

Lab File: VL032281.D

Acq: 19 Jul 2018 4:27

Tgt Ion: 84 Resp: 77678

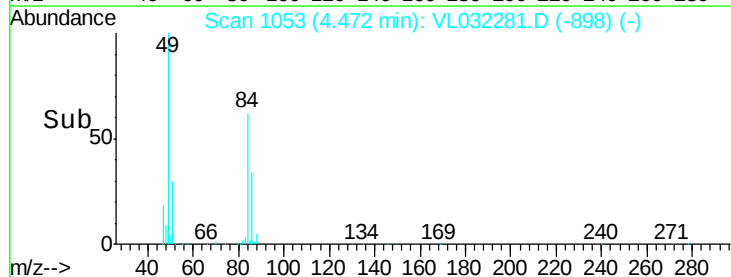
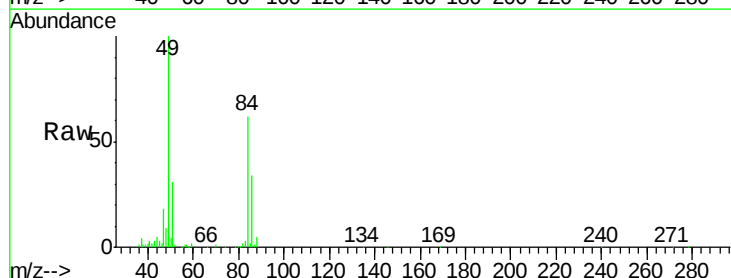
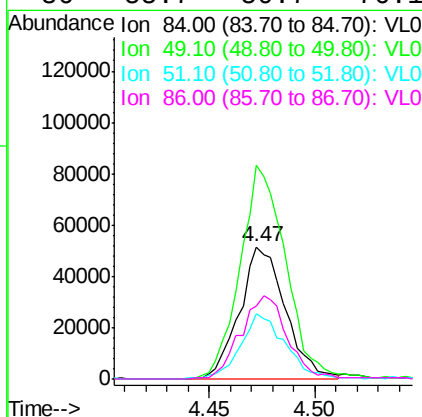
Ion Ratio Lower Upper

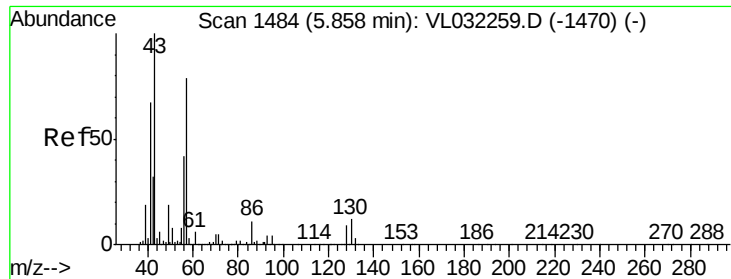
84 100

49 161.7 122.4 183.6

51 48.7 36.8 55.2

86 55.7 50.7 76.1





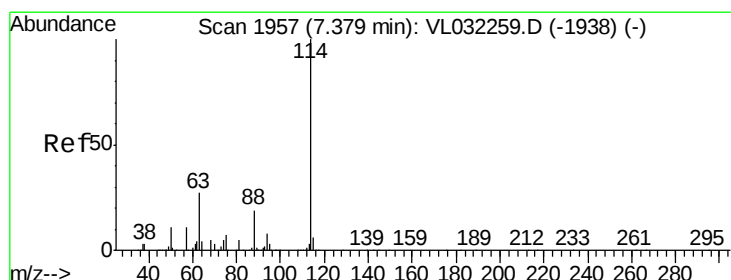
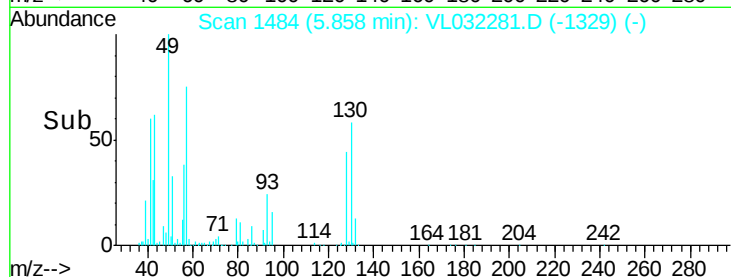
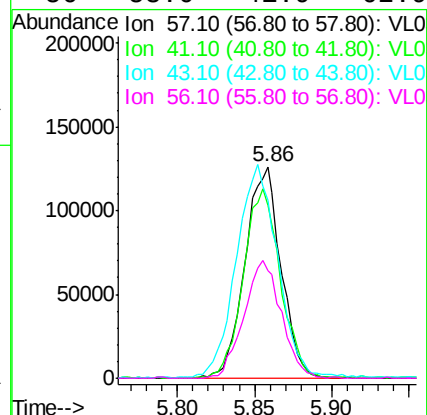
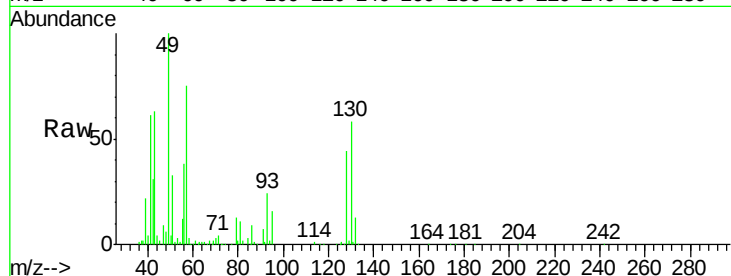
#26
Hexane
Concen: 1.18 ppbv
RT: 5.86 min Scan# 1484
Delta R.T. -0.00 min
Lab File: VL032281.D
Acq: 19 Jul 2018 4:27

Instrument :
MSVOA_L
ClientSampleId :
B-10

Tot Ion	57	Resp	204310
Ion Ratio	Lower	Upper	
57	100		
41	92.5	67.9	101.9
43	116.1	175.9	263.9#
56	58.0	41.9	62.9

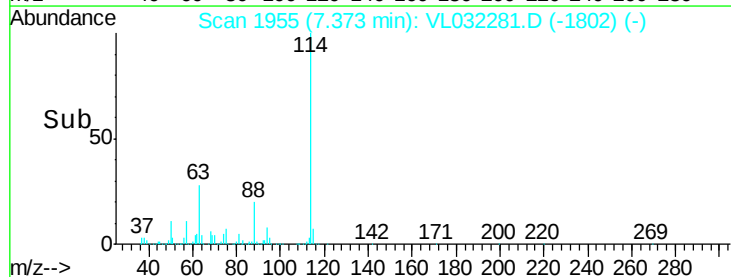
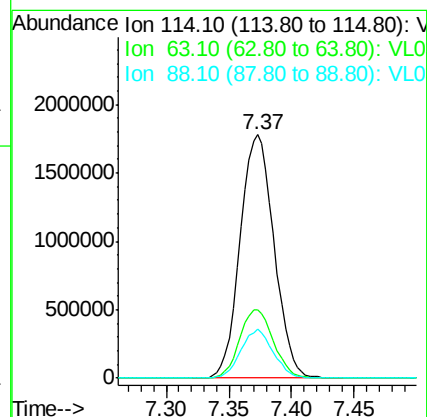
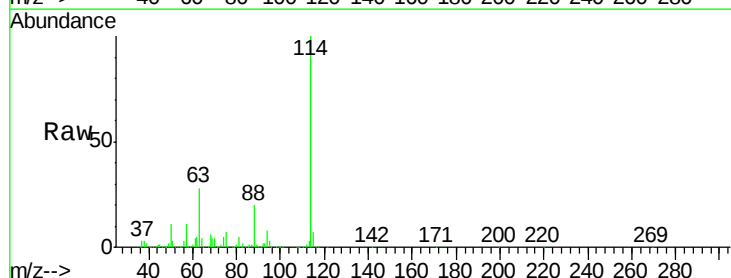
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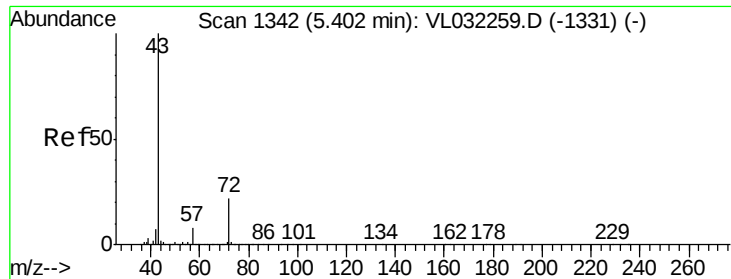
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#33
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 7.37 min Scan# 1955
Delta R.T. -0.01 min
Lab File: VL032281.D
Acq: 19 Jul 2018 4:27

Tgt Ion	114	Resp	3356263
Ion Ratio	Lower	Upper	
114	100		
63	28.0	22.6	33.8
88	19.0	15.2	22.8





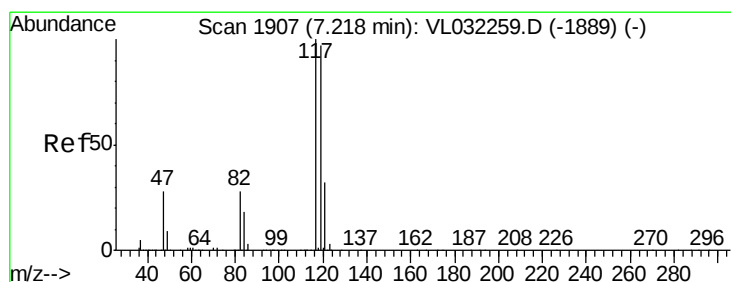
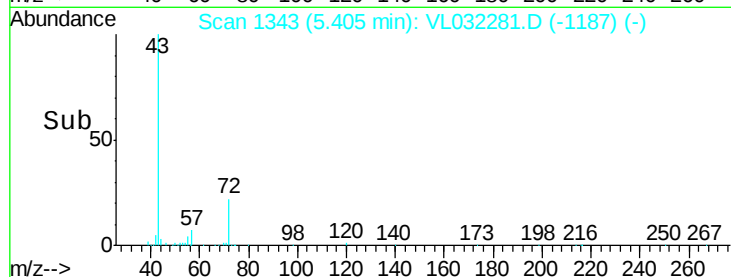
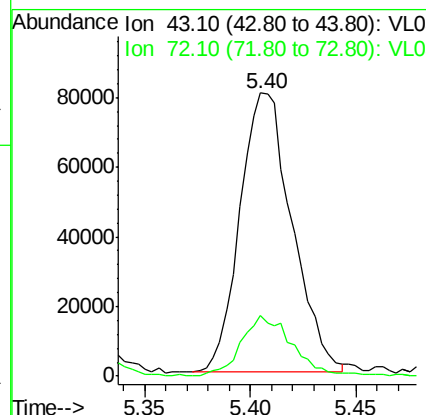
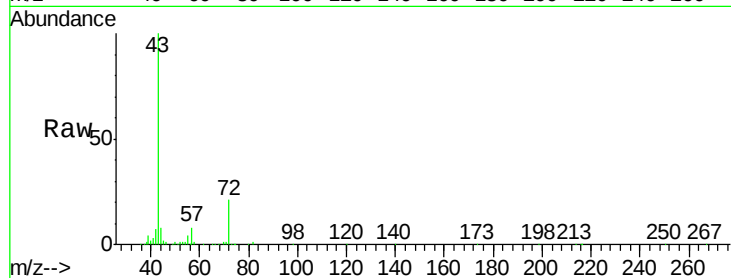
#34
2-Butanone
Concen: 0.60 ppbv
RT: 5.40 min Scan# 1343
Delta R.T. 0.00 min
Lab File: VL032281.D
Acq: 19 Jul 2018 4:27

Instrument :
MSVOA_L
ClientSampleId :
B-10

Tot Ion: 43 Resp: 137558
Ion Ratio Lower Upper
43 100
72 21.7 17.7 26.5

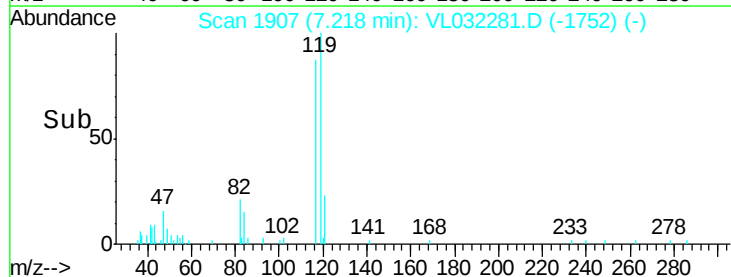
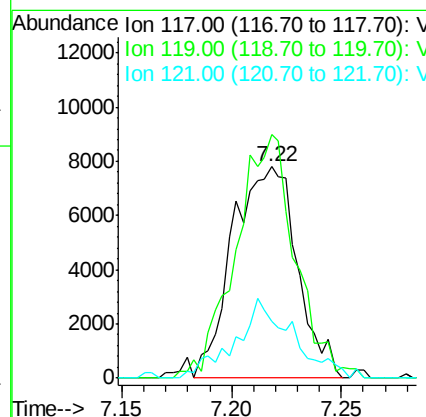
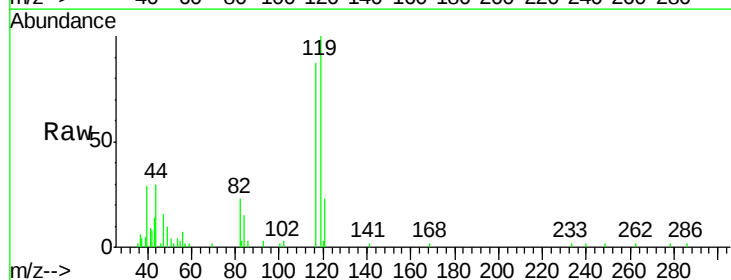
Manual Integrations
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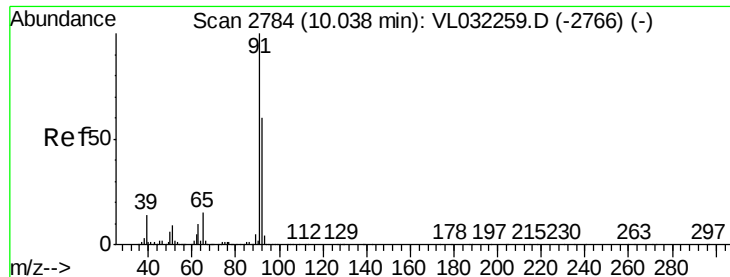
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#35
Carbon Tetrachloride
Concen: 0.07 ppbv m
RT: 7.22 min Scan# 1907
Delta R.T. -0.00 min
Lab File: VL032281.D
Acq: 19 Jul 2018 4:27

Tgt Ion: 117 Resp: 15947
Ion Ratio Lower Upper
117 100
119 115.4 77.4 116.0
121 26.9 25.4 38.2





#53

Toluene

Concen: 0.25 ppbv

RT: 10.04 min Scan# 2784

Delta R.T. -0.00 min

Lab File: VL032281.D

Acq: 19 Jul 2018 4:27

Instrument :

MSVOA_L

ClientSampled :

B-10

Tot Ion: 91 Resp: 100027

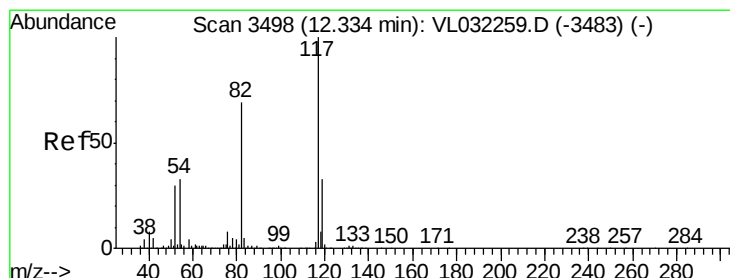
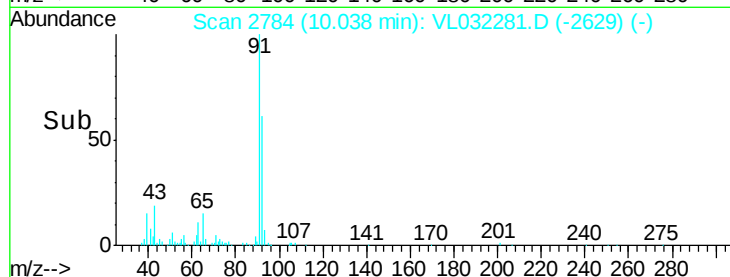
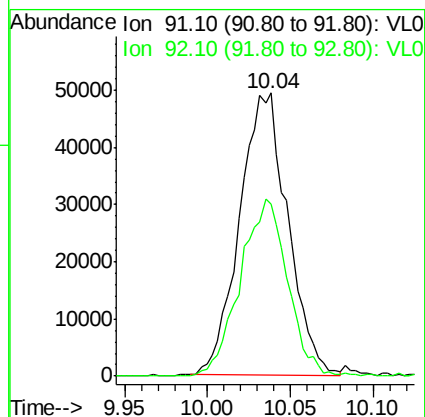
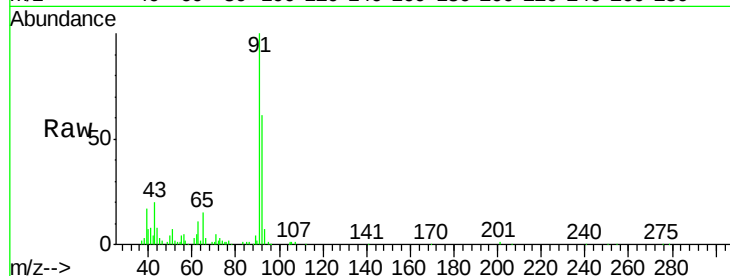
Ion Ratio Lower Upper

91 100

92 61.7 48.6 72.8

Manual Integrations
APPROVED

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7/20/2018 2:53:27 PM



#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.33 min Scan# 3496

Delta R.T. -0.01 min

Lab File: VL032281.D

Acq: 19 Jul 2018 4:27

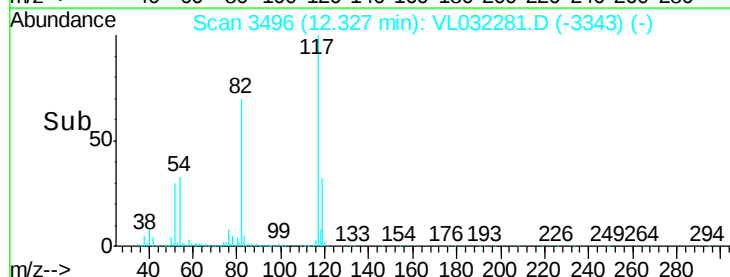
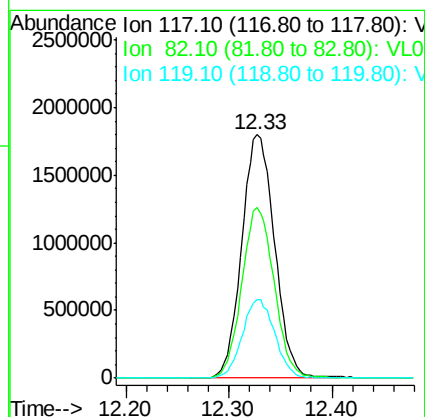
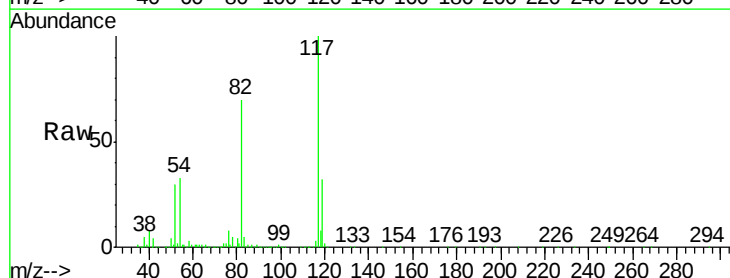
Tgt Ion: 117 Resp: 3984177

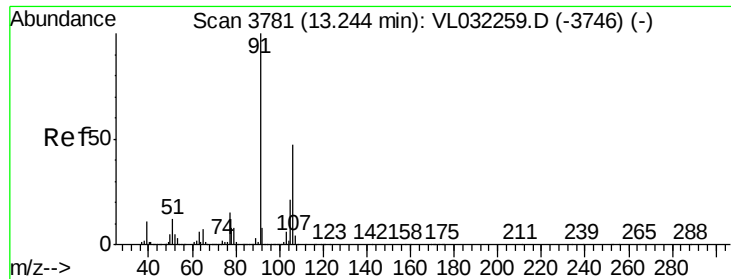
Ion Ratio Lower Upper

117 100

82 69.5 53.9 80.9

119 32.1 25.5 38.3





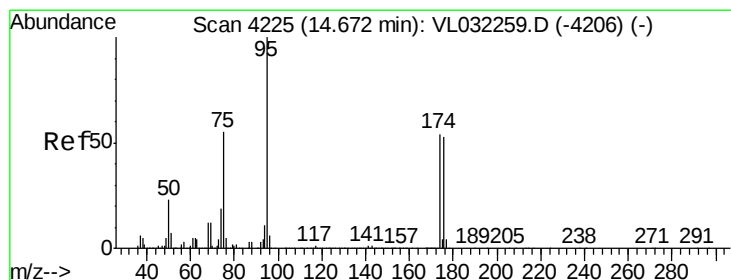
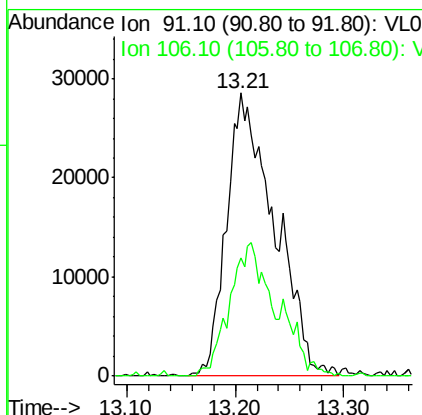
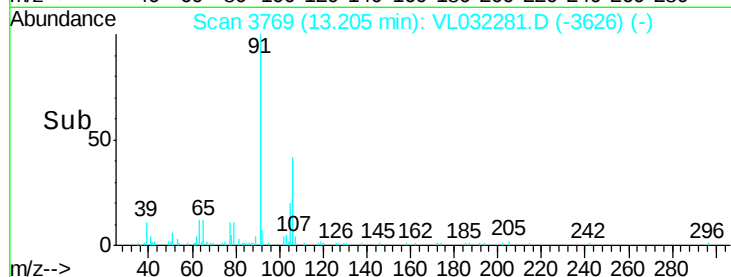
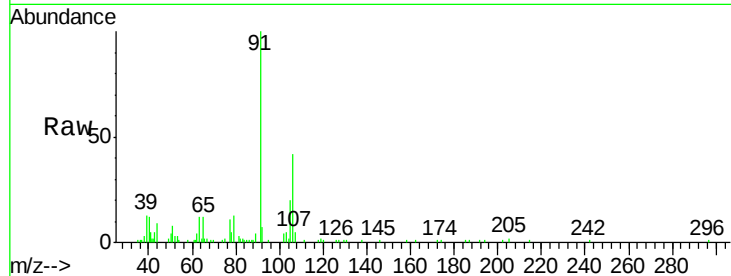
#59
m/p-Xylene
Concen: 0.18 ppbv m
RT: 13.21 min Scan# 3769
Delta R.T. -0.04 min
Lab File: VL032281.D
Acq: 19 Jul 2018 4:27

Instrument :
MSVOA_L
Client Sampled :
B-10

Tot Ion: 91 Resp: 88035
Ion Ratio Lower Upper
91 100
106 0.0 36.2 54.2#

Manual Integrations
APPROVED

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#68
1-Bromo-4-Fluorobenzene
Concen: 9.72 ppbv
RT: 14.66 min Scan# 4223
Delta R.T. -0.01 min
Lab File: VL032281.D
Acq: 19 Jul 2018 4:27

Tgt Ion: 95 Resp: 3140639
Ion Ratio Lower Upper
95 100
174 55.8 44.3 66.5
175 3.8 3.3 4.9

