

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101818\
 Data File : VL032667.D
 Acq On : 19 Oct 2018 3:45
 Operator : SY/AP
 Sample : J5578-02
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1

Manual Integrations
 APPROVED

MMDadoda
 10/24/2018 12:05:18 PM

Quant Time: Oct 23 09:58:44 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL101818AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Oct 19 2018
 QLast Update : Fri Oct 19 01:25:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.78	49	1338010	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.31	114	3427851	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3358916	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.59	95	2513159	10.05	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.09	85	120172	0.882	ppbv	98
3) Chlorodifluoromethane	3.03	51	49130	0.470	ppbv #	92
4) Chloromethane	3.18	50	83337	1.425	ppbv	95
9) Propene	3.06	41	20489m	0.476	ppbv	
10) Heptane	8.27	43	31262m	0.188	ppbv	
11) Trichlorofluoromethane	4.02	101	849768	4.772	ppbv	96
13) Ethanol	3.66	45	176665	14.354	ppbv	99
15) Acetone	3.91	43	624832	5.057	ppbv	99
19) Isopropyl Alcohol	4.05	45	70873	0.805	ppbv #	93
20) Methylene Chloride	4.42	84	84464	1.347	ppbv	96
26) Hexane	5.80	57	72813	0.541	ppbv #	76
34) 2-Butanone	5.35	43	155047m	0.844	ppbv	
35) Carbon Tetrachloride	7.15	117	23632m	0.097	ppbv	
36) Benzene	7.02	78	31424m	0.113	ppbv	
52) Tetrachloroethene	11.39	164	4036m	0.042	ppbv	
53) Toluene	9.97	91	624768	1.958	ppbv	99
59) m/p-Xylene	13.14	91	47226m	0.136	ppbv	
72) 4-Ethyltoluene	16.02	105	73945	0.207	ppbv #	93
73) 1,3,5-Trimethylbenzene	16.17	105	102665m	0.295	ppbv	
74) 1,2,4-Trimethylbenzene	16.94	105	264070	0.711	ppbv #	80

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

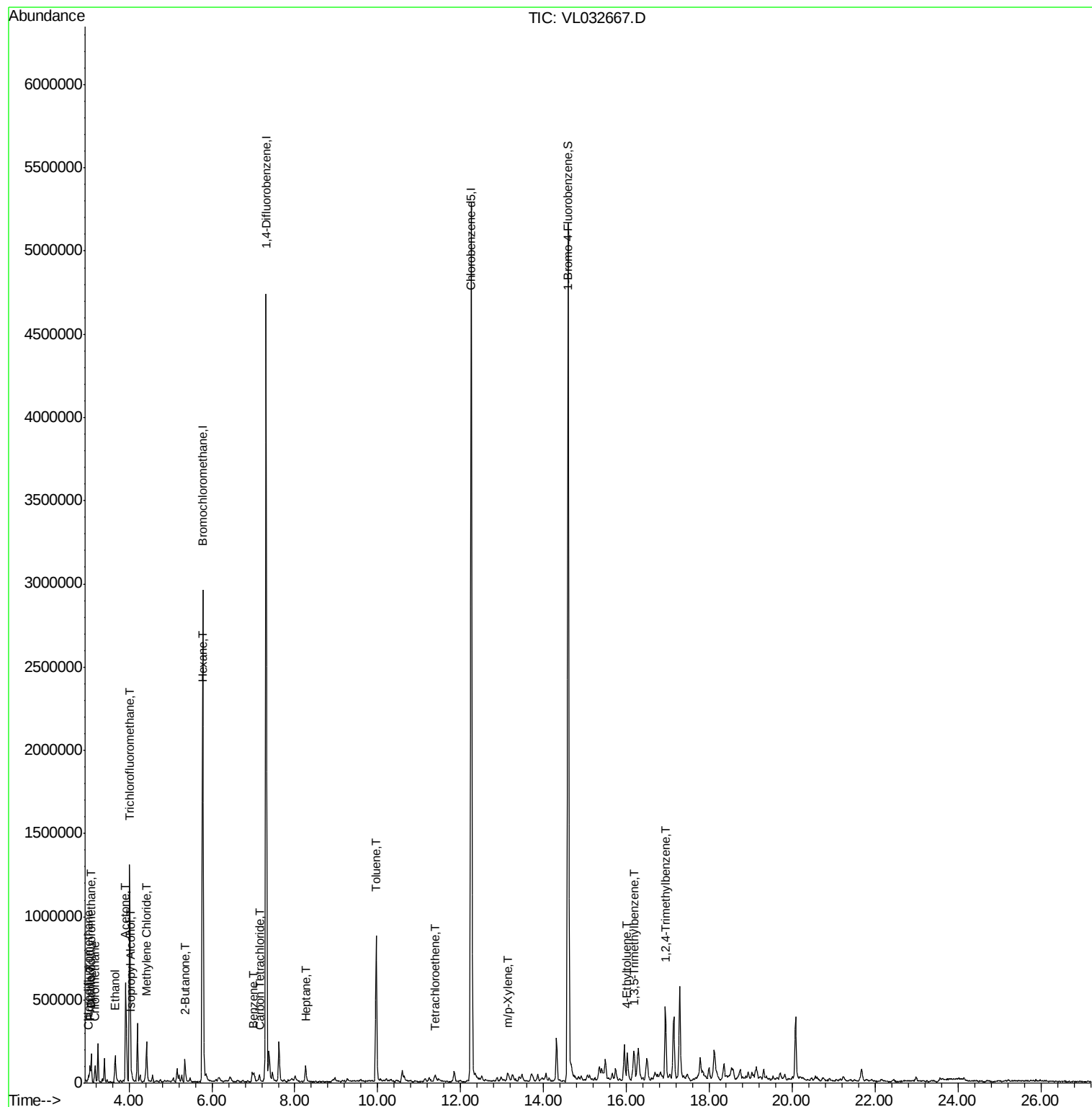
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL101818\
Data File : VL032667.D
Acq On : 19 Oct 2018 3:45
Operator : SY/AP
Sample : J5578-02
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

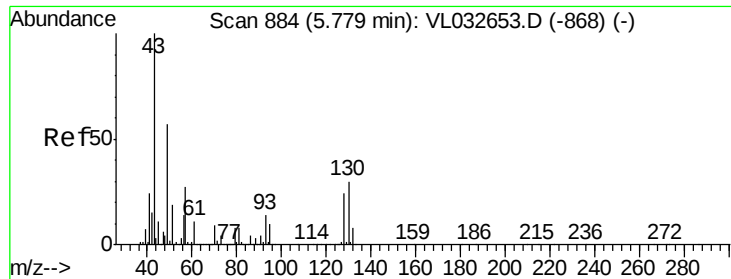
Instrument :
MSVOA_L
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Quant Time: Oct 23 09:58:44 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL101818AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Oct
QLast Update : Fri Oct 19 01:25:37 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.78 min Scan# 883

Delta R.T. -0.00 min

Lab File: VL032667.D

Acq: 19 Oct 2018 3:45

Instrument :

MSVOA_L

ClientSampled :

IA-1

Tot Ion: 49 Resp: 1338010

Ion Ratio Lower Upper

49 100

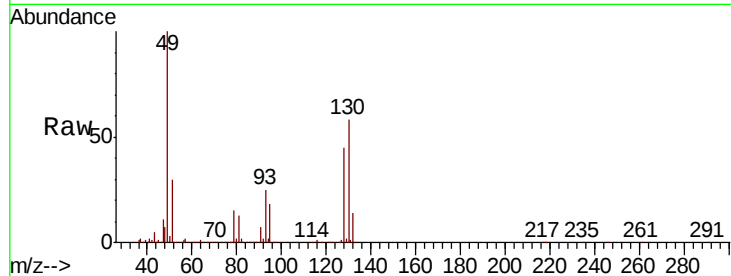
128 48.0 22.3 66.8

130 61.9 28.4 85.3

Manual Integrations
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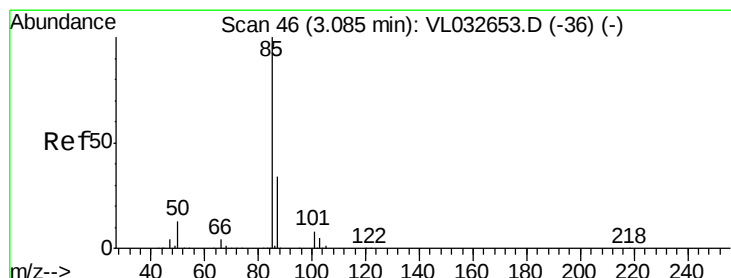
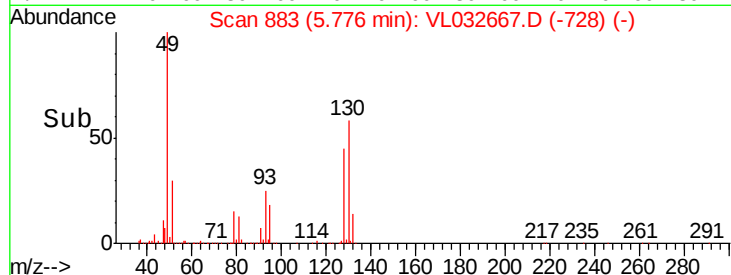
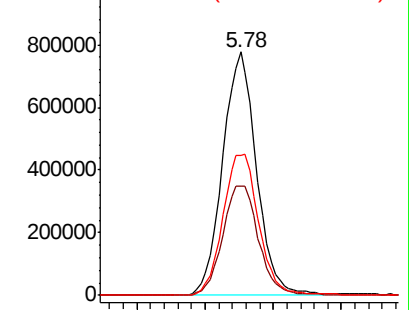
10/24/2018 12:05:18 PM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.882 ppbv

RT: 3.09 min Scan# 47

Delta R.T. 0.00 min

Lab File: VL032667.D

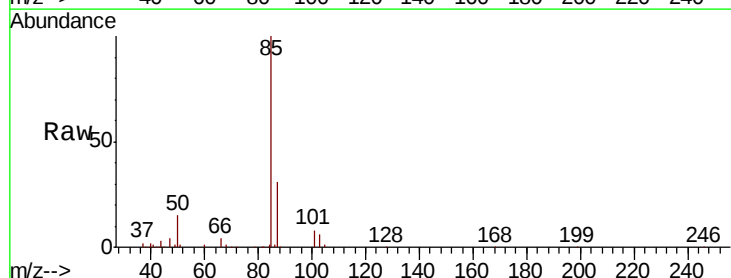
Acq: 19 Oct 2018 3:45

Tgt Ion: 85 Resp: 120172

Ion Ratio Lower Upper

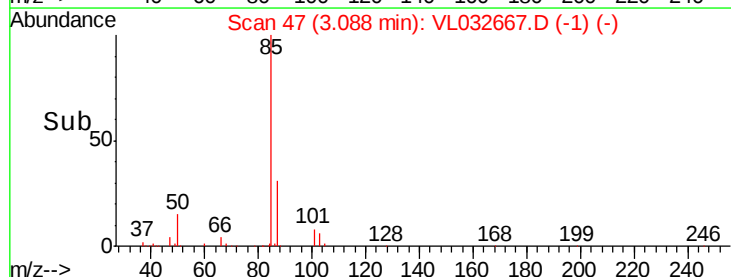
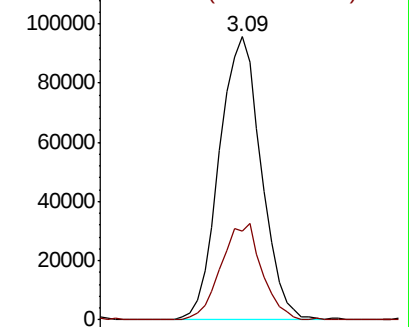
85 100

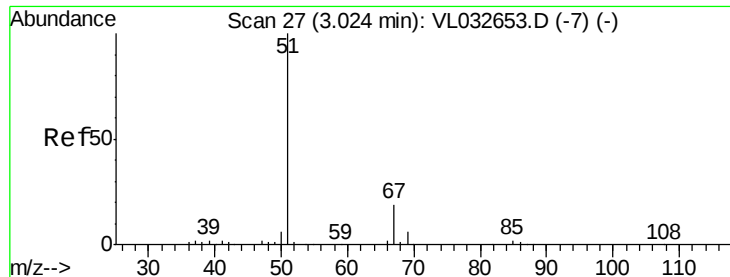
87 31.4 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.470 ppbv

RT: 3.03 min Scan# 28

Delta R.T. 0.00 min

Lab File: VL032667.D

Acq: 19 Oct 2018 3:45

Instrument :

MSVOA_L

ClientSampled :

IA-1

Tot Ion: 51 Resp: 49130

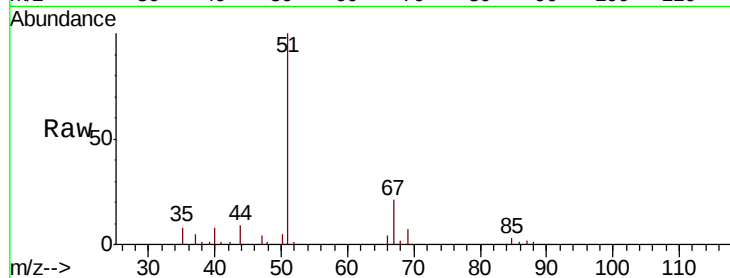
Ion Ratio Lower Upper

51 100

67 15.2 15.2 22.8#

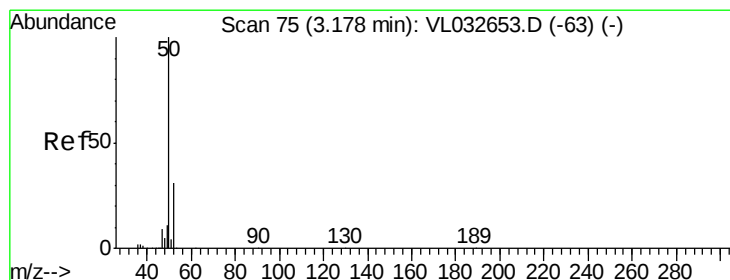
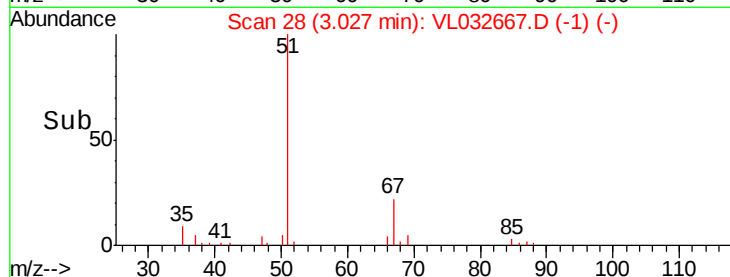
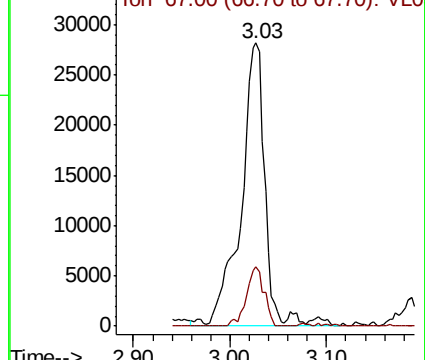
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 1.425 ppbv

RT: 3.18 min Scan# 76

Delta R.T. 0.00 min

Lab File: VL032667.D

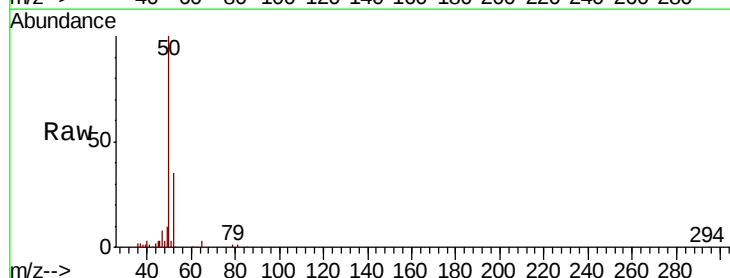
Acq: 19 Oct 2018 3:45

Tgt Ion: 50 Resp: 83337

Ion Ratio Lower Upper

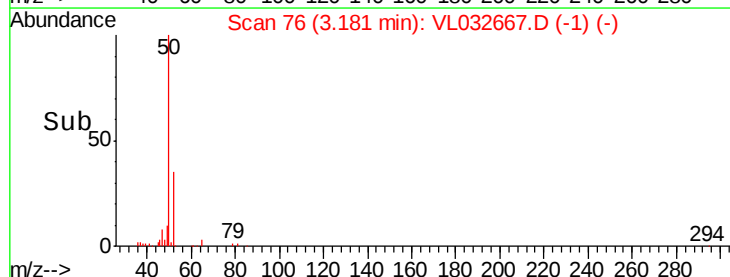
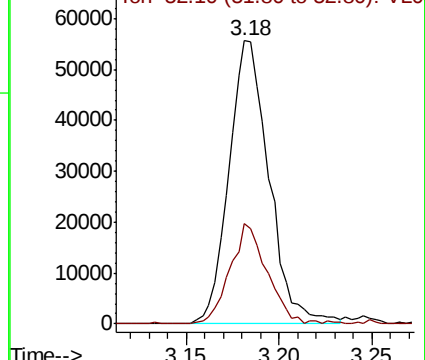
50 100

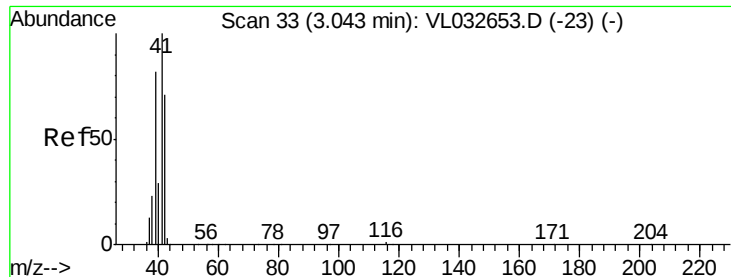
52 35.3 25.9 38.9



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.476 ppbv m

RT: 3.06 min Scan# 37

Delta R.T. 0.01 min

Lab File: VL032667.D

Acq: 19 Oct 2018 3:45

Instrument :

MSVOA_L

ClientSampleId :

IA-1

Tot Ion: 41 Resp: 20489

Ion Ratio Lower Upper

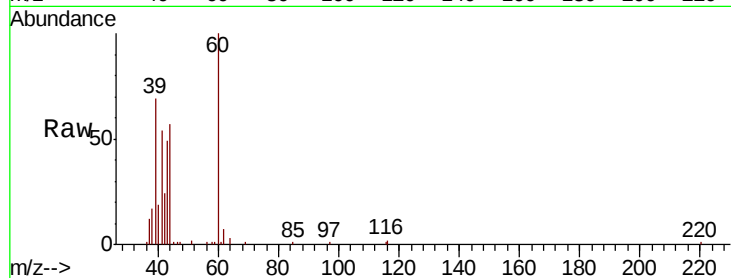
41 100

42 0.0 55.4 83.0#

Manual Integrations
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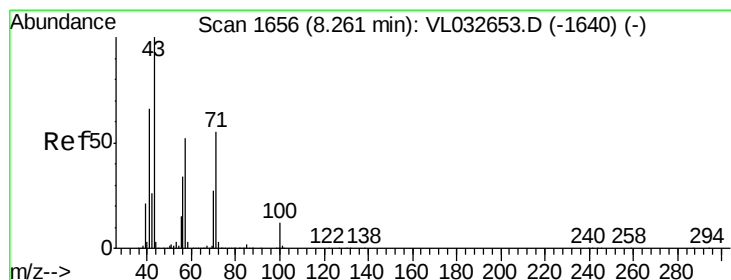
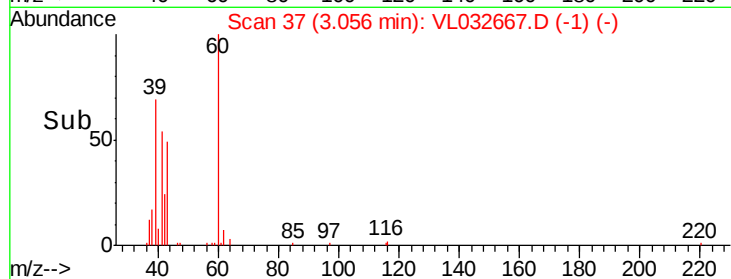
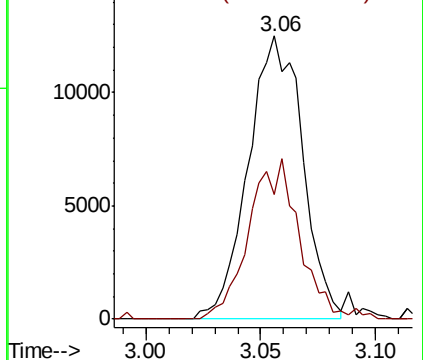
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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 0.188 ppbv m

RT: 8.27 min Scan# 1658

Delta R.T. 0.01 min

Lab File: VL032667.D

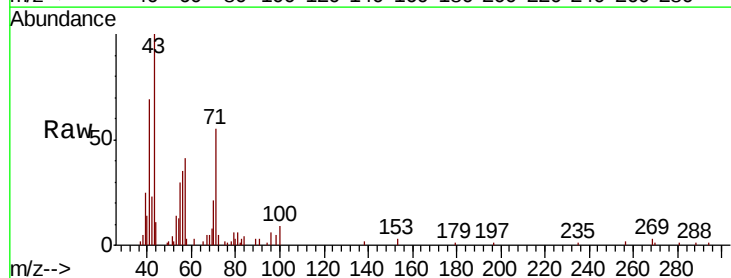
Acq: 19 Oct 2018 3:45

Tgt Ion: 43 Resp: 31262

Ion Ratio Lower Upper

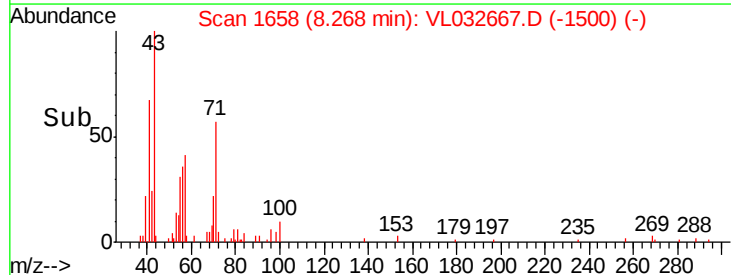
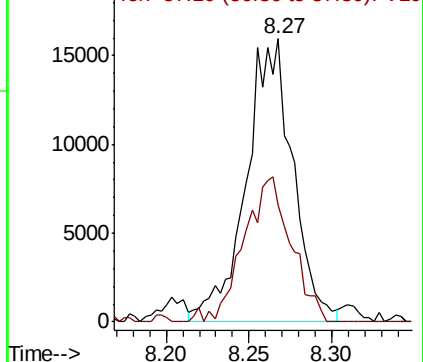
43 100

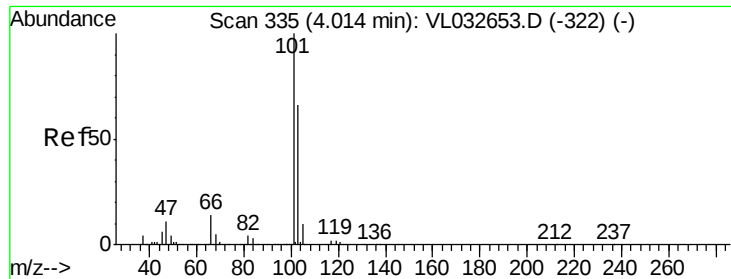
57 0.0 41.5 62.3#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





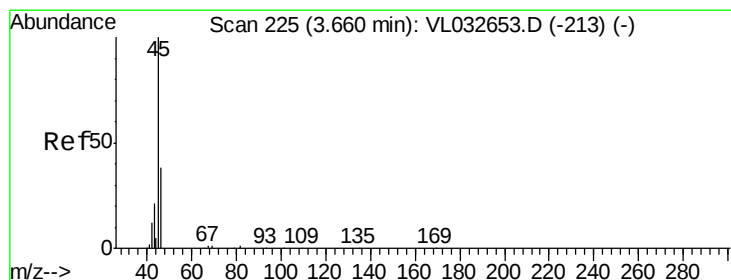
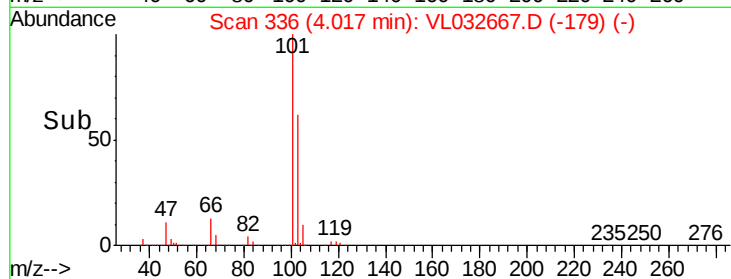
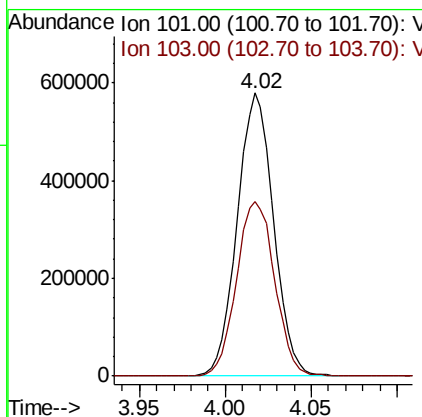
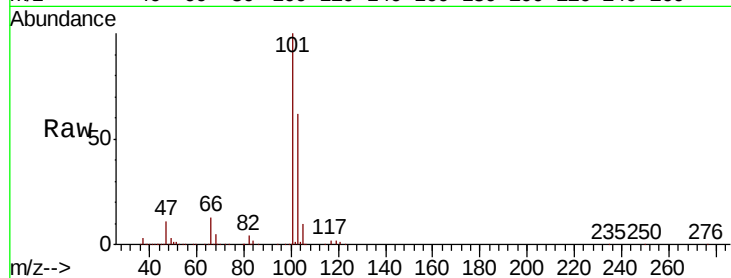
#11
 Trichlorofluoromethane
 Concen: 4.772 ppbv
 RT: 4.02 min Scan# 336
 Delta R.T. 0.00 min
 Lab File: VL032667.D
 Acq: 19 Oct 2018 3:45

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1

Tot Ion	Ion	Ratio	Lower	Upper
849768	101	100		
	103	61.5	51.4	77.2

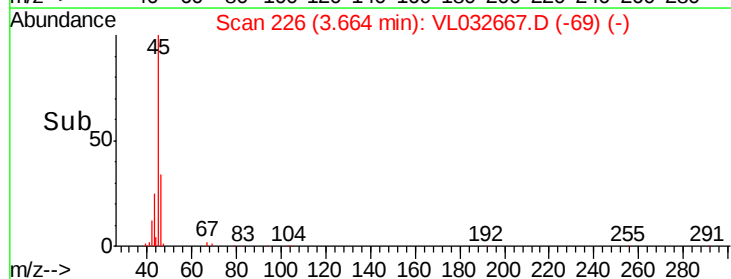
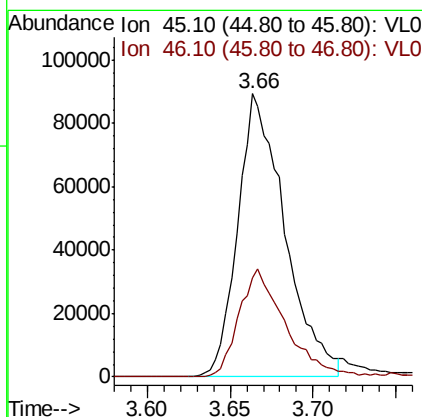
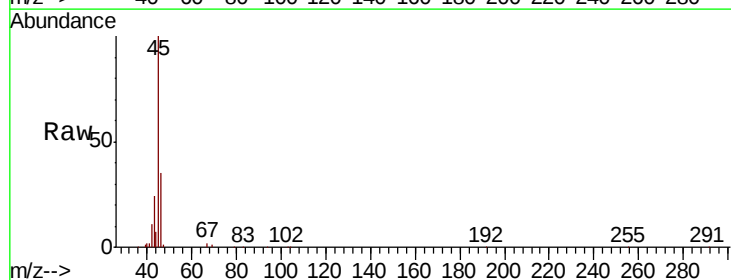
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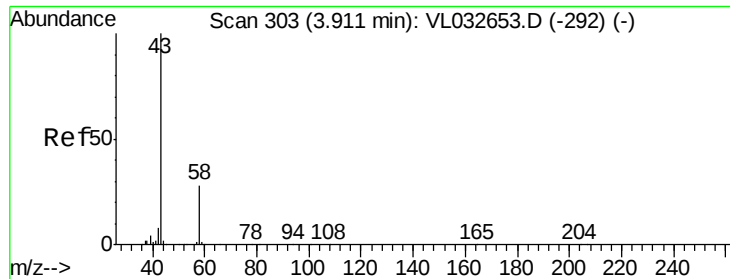
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#13
 Ethanol
 Concen: 14.354 ppbv
 RT: 3.66 min Scan# 226
 Delta R.T. 0.00 min
 Lab File: VL032667.D
 Acq: 19 Oct 2018 3:45

Tgt Ion	Ion	Ratio	Lower	Upper
176665	45	100		
	46	38.2	15.4	61.8





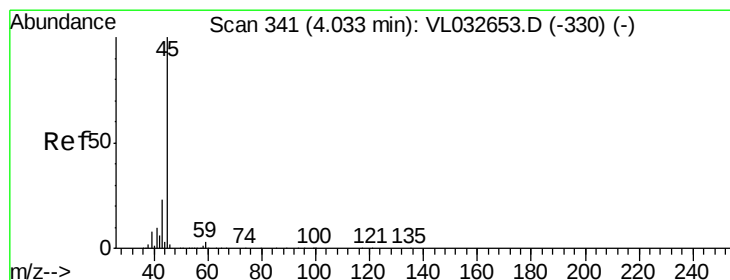
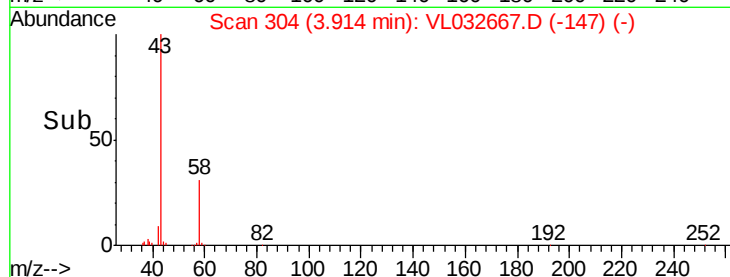
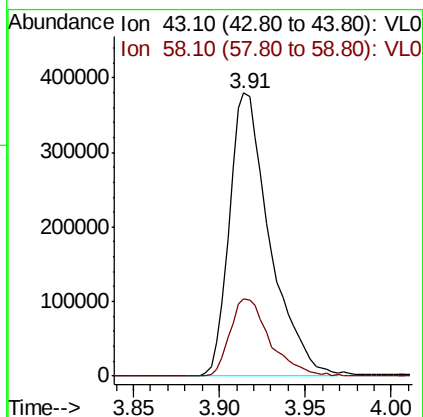
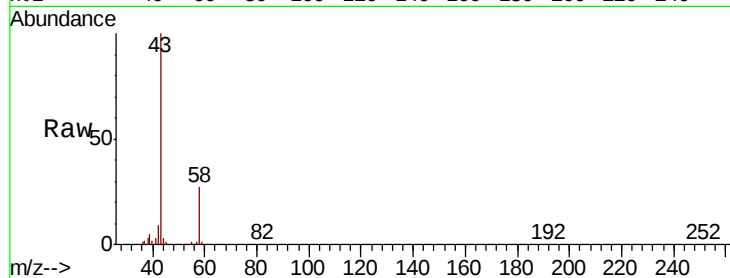
#15
Acetone
Concen: 5.057 ppbv
RT: 3.91 min Scan# 304
Delta R.T. 0.00 min
Lab File: VL032667.D
Acq: 19 Oct 2018 3:45

Instrument :
MSVOA_L
ClientSampleId :
IA-1

Tot Ion: 43 Resp: 624832
Ion Ratio Lower Upper
43 100
58 27.0 22.1 33.1

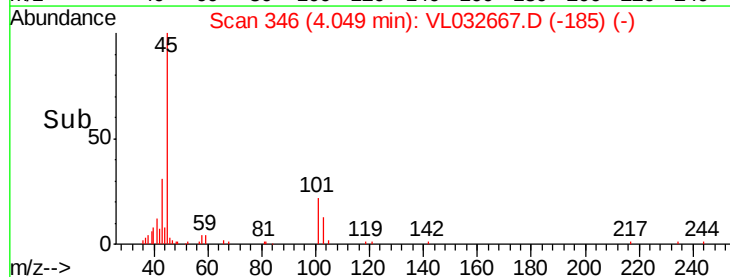
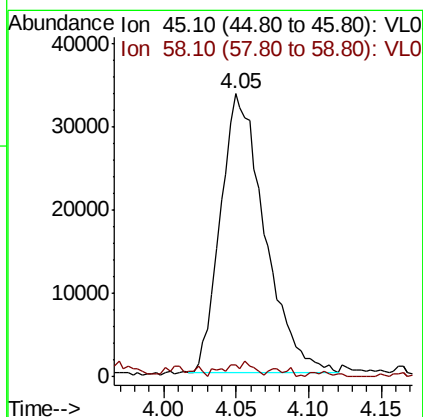
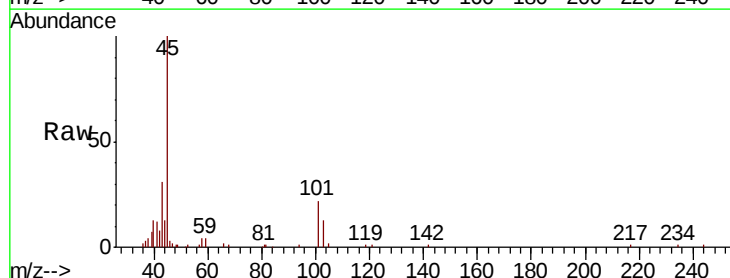
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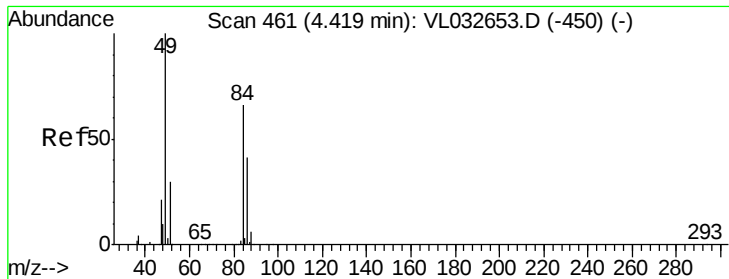
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#19
Isopropyl Alcohol
Concen: 0.805 ppbv
RT: 4.05 min Scan# 346
Delta R.T. 0.02 min
Lab File: VL032667.D
Acq: 19 Oct 2018 3:45

Tgt Ion: 45 Resp: 70873
Ion Ratio Lower Upper
45 100
58 0.0 2.0 3.0#





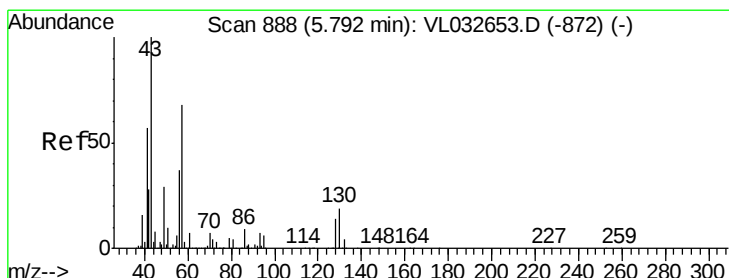
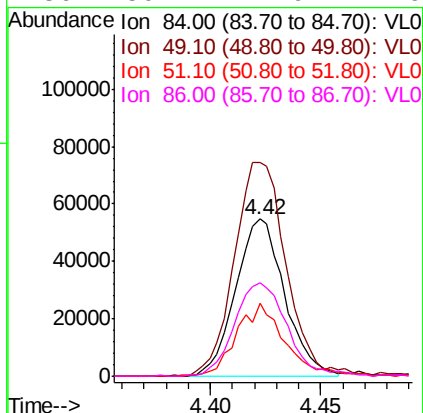
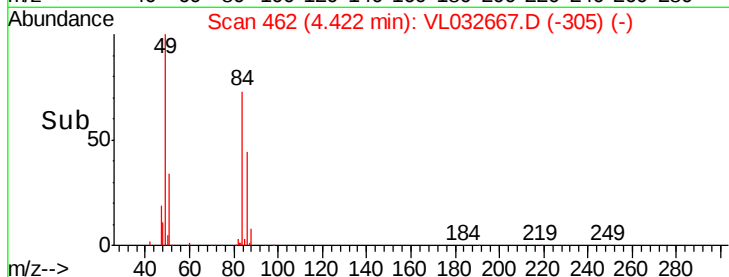
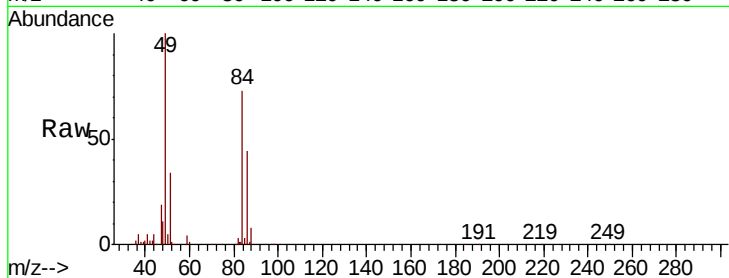
#20
Methvlene Chloride
Concen: 1.347 ppbv
RT: 4.42 min Scan# 462
Delta R.T. 0.00 min
Lab File: VL032667.D
Acq: 19 Oct 2018 3:45

Instrument :
MSVOA_L
ClientSampled :
IA-1

Tot Ion	Ratio	Lower	Upper
84	100		
49	135.8	113.5	170.3
51	45.2	34.8	52.2
86	59.4	47.9	71.9

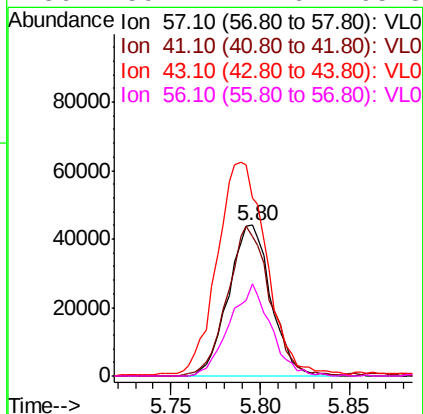
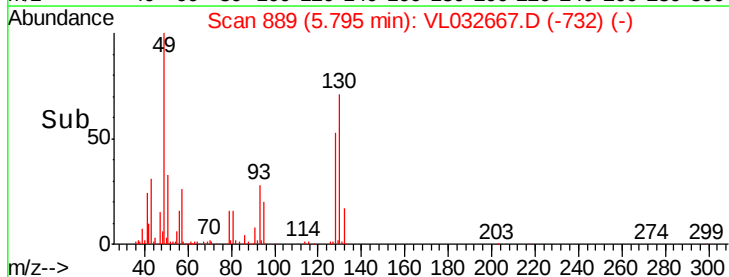
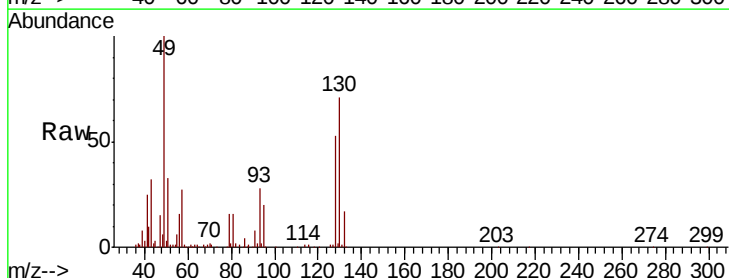
Manual Integrations
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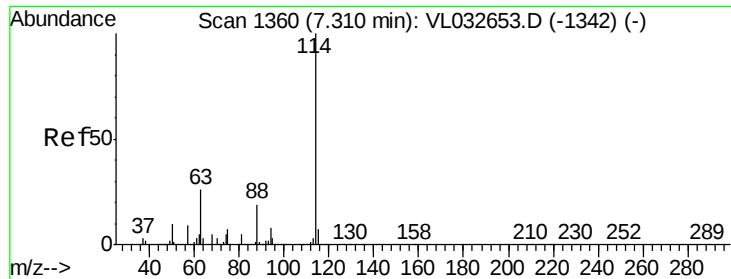
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#26
Hexane
Concen: 0.541 ppbv
RT: 5.80 min Scan# 889
Delta R.T. 0.00 min
Lab File: VL032667.D
Acq: 19 Oct 2018 3:45

Tgt Ion	Ratio	Lower	Upper
57	100		
41	99.6	67.4	101.0
43	167.8	171.9	257.9#
56	59.4	42.6	63.8





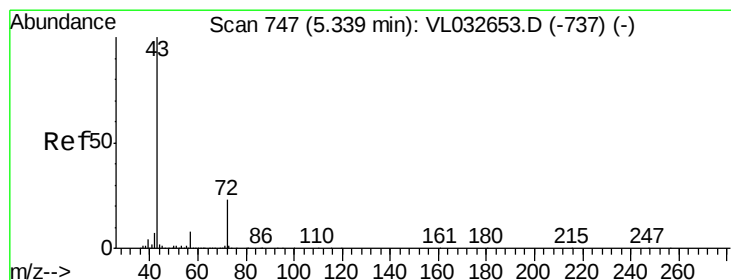
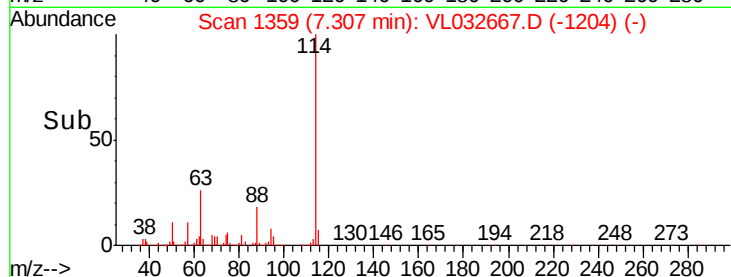
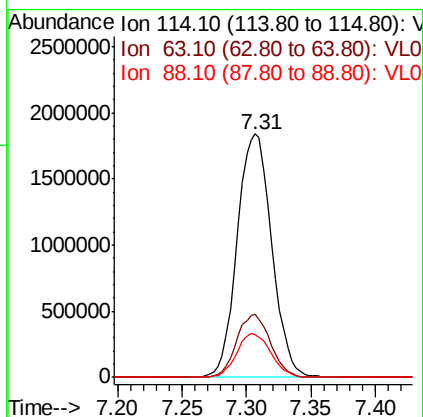
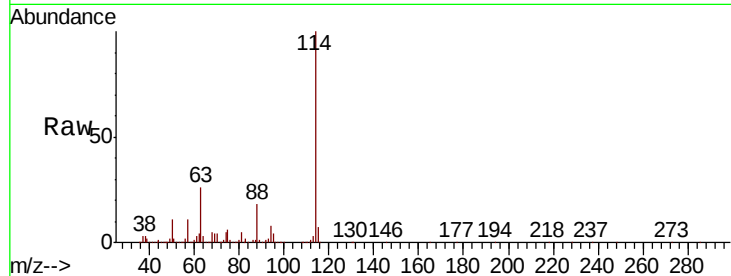
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.31 min Scan# 1359
 Delta R.T. -0.00 min
 Lab File: VL032667.D
 Acq: 19 Oct 2018 3:45

Instrument :
 MSVOA_L
 ClientSampled :
 IA-1

Tot Ion	Ratio	Lower	Upper
114	100		
63	25.4	21.7	32.5
88	17.8	14.9	22.3

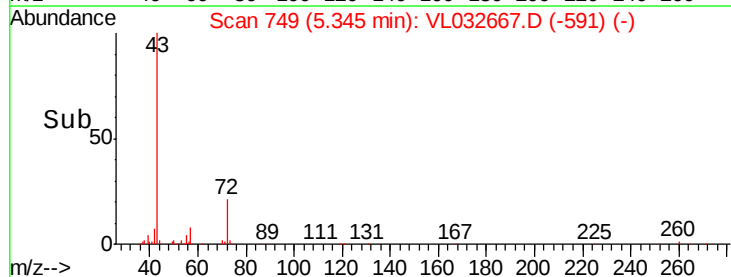
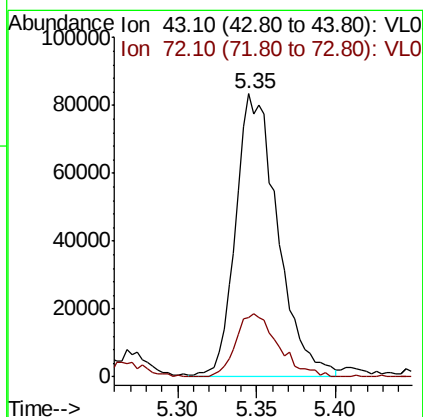
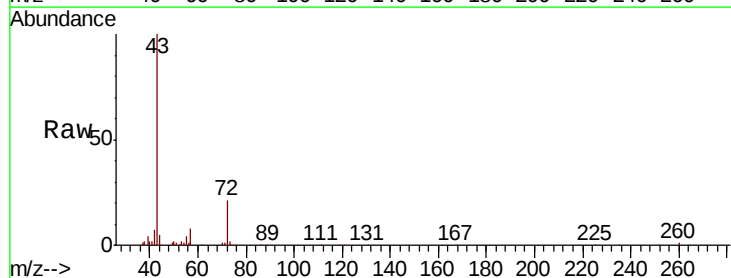
Manual Integrations
 APPROVED

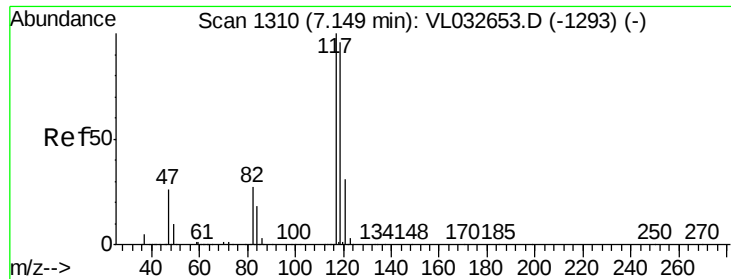
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#34
 2-Butanone
 Concen: 0.844 ppbv m
 RT: 5.35 min Scan# 749
 Delta R.T. 0.01 min
 Lab File: VL032667.D
 Acq: 19 Oct 2018 3:45

Tgt Ion	Ratio	Lower	Upper
43	100		
72	0.0	18.6	27.8#





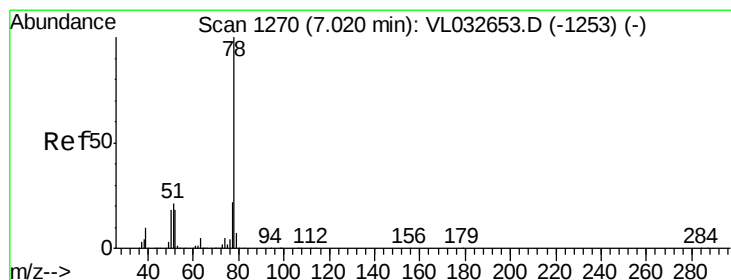
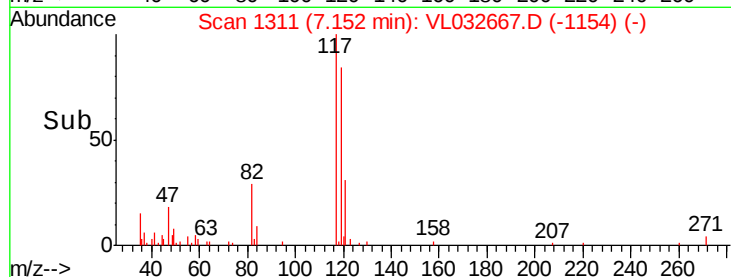
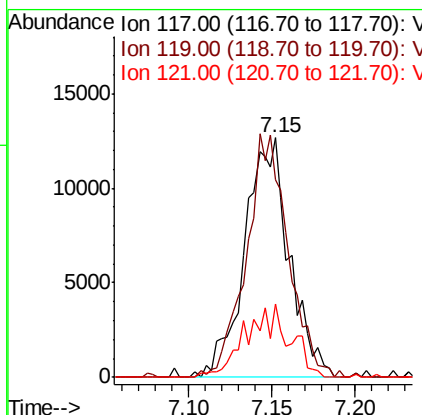
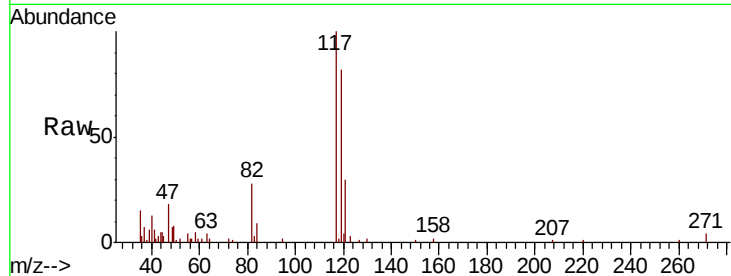
#35
Carbon Tetrachloride
Concen: 0.097 ppbv m
RT: 7.15 min Scan# 1311
Delta R.T. 0.00 min
Lab File: VL032667.D
Acq: 19 Oct 2018 3:45

Instrument :
MSVOA_L
ClientSampled :
IA-1

Tot Ion	Ratio	Lower	Upper
117	100		
119	82.5	75.7	113.5
121	30.4	24.7	37.1

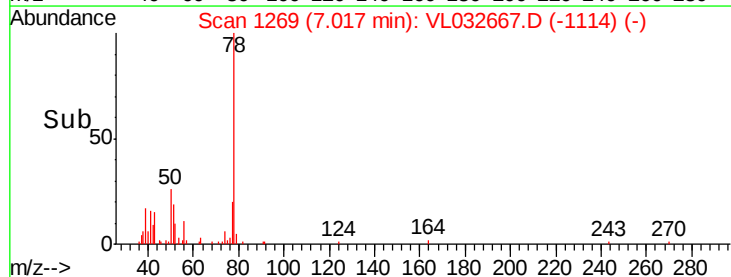
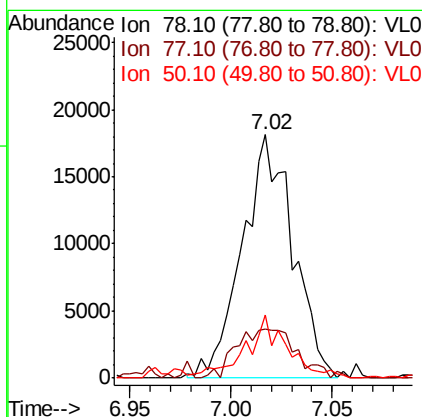
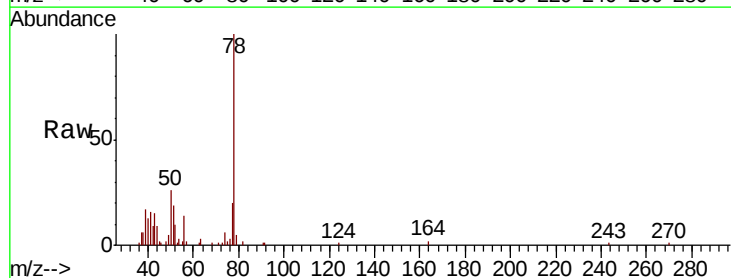
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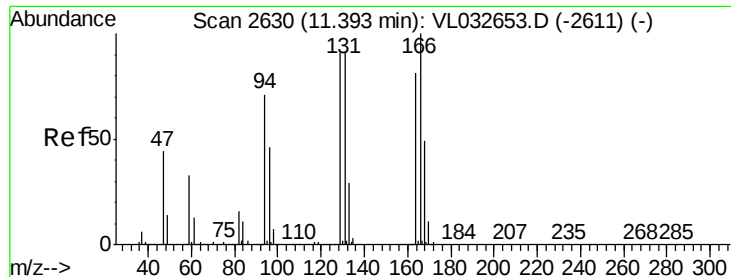
MMDadoda
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#36
Benzene
Concen: 0.113 ppbv m
RT: 7.02 min Scan# 1269
Delta R.T. -0.00 min
Lab File: VL032667.D
Acq: 19 Oct 2018 3:45

Tgt Ion	Ratio	Lower	Upper
78	100		
77	20.0	18.1	27.1
50	26.0	15.1	22.7#





#52

Tetrachloroethene

Concen: 0.042 ppbv

RT: 11.39 min Scan# 2629

Delta R.T. -0.00 min

Lab File: VL032667.D

Acq: 19 Oct 2018 3:45

Instrument :

MSVOA_L

ClientSampleId :

IA-1

Tot Ion:164 Resp: 4036

Ion Ratio Lower Upper

164 100

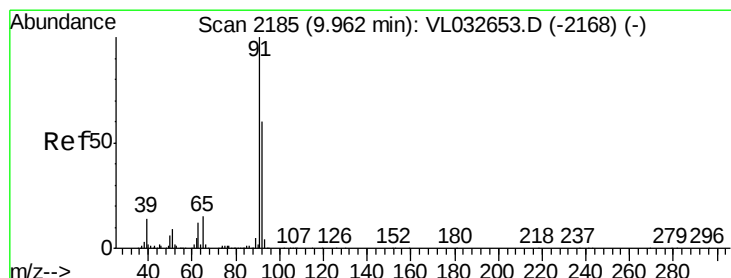
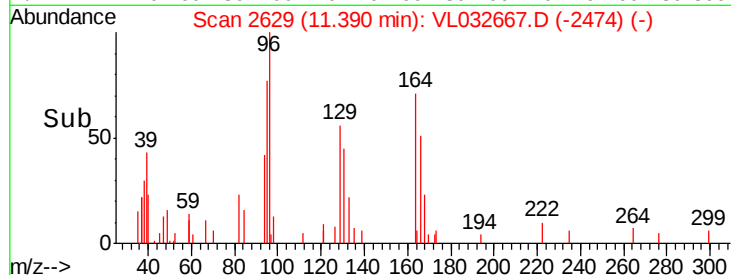
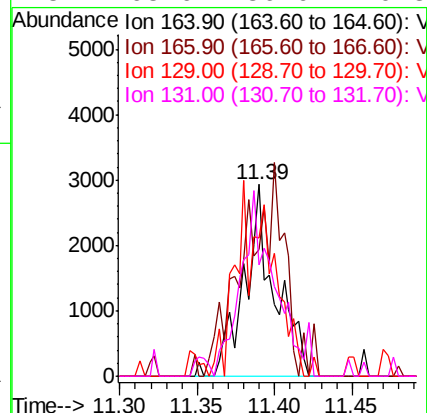
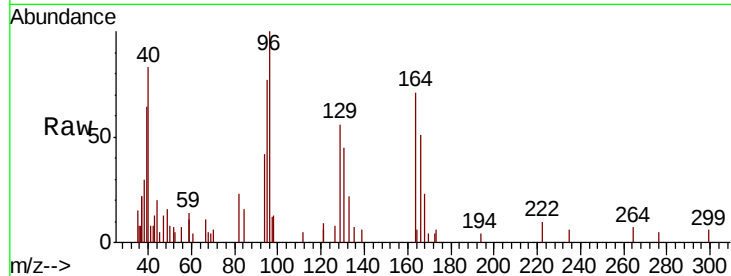
166 71.9 100.5 150.7#

129 78.6 90.0 135.0#

131 63.6 86.6 129.8#

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#53

Toluene

Concen: 1.958 ppbv

RT: 9.97 min Scan# 2186

Delta R.T. 0.00 min

Lab File: VL032667.D

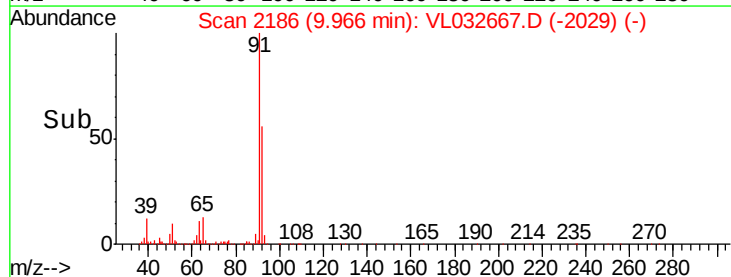
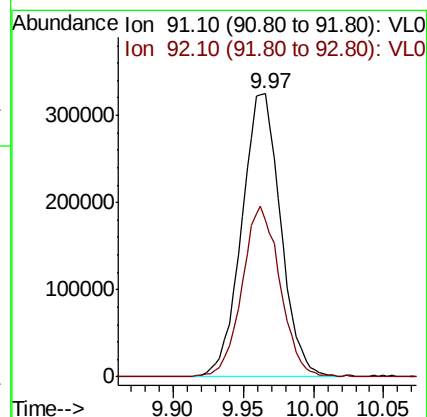
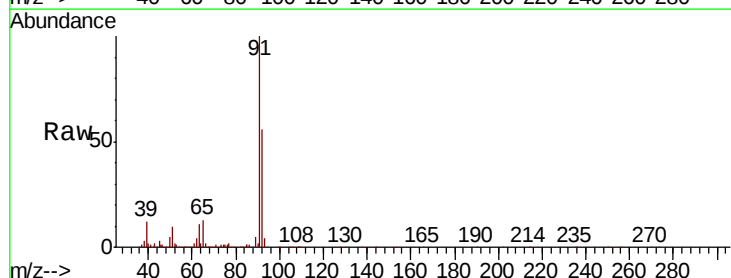
Acq: 19 Oct 2018 3:45

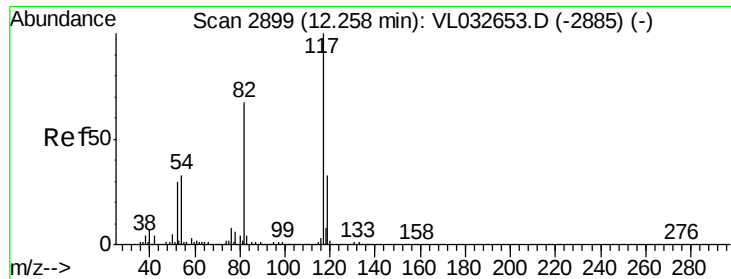
Tgt Ion: 91 Resp: 624768

Ion Ratio Lower Upper

91 100

92 59.4 48.4 72.6





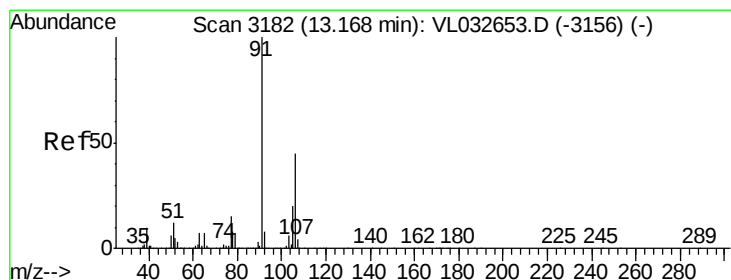
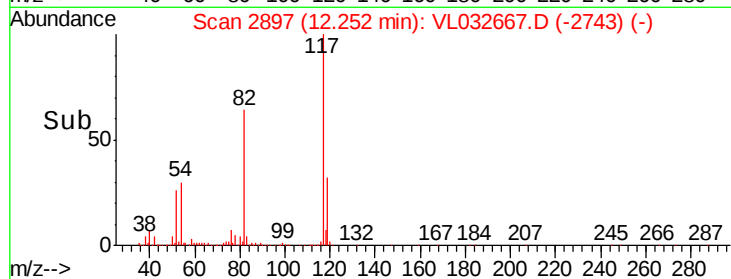
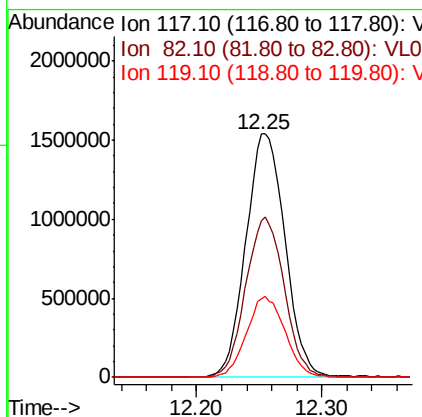
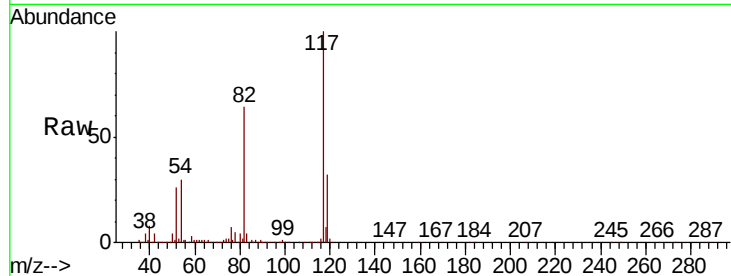
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.25 min Scan# 2897
Delta R.T. -0.01 min
Lab File: VL032667.D
Acq: 19 Oct 2018 3:45

Instrument :
MSVOA_L
ClientSampleId :
IA-1

Tot Ion:117 Resp: 3358916
Ion Ratio Lower Upper
117 100
82 64.5 52.7 79.1
119 32.8 26.7 40.1

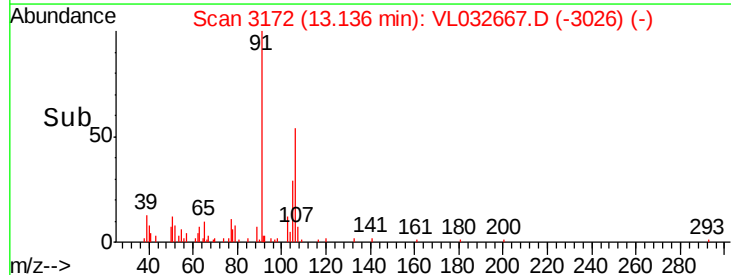
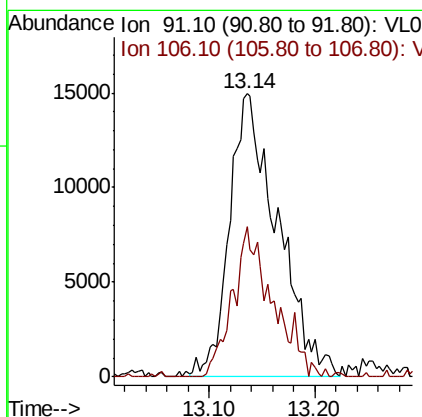
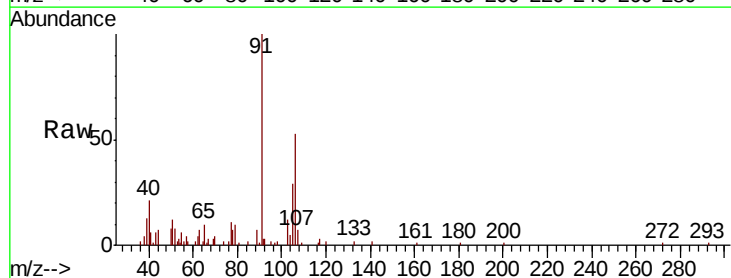
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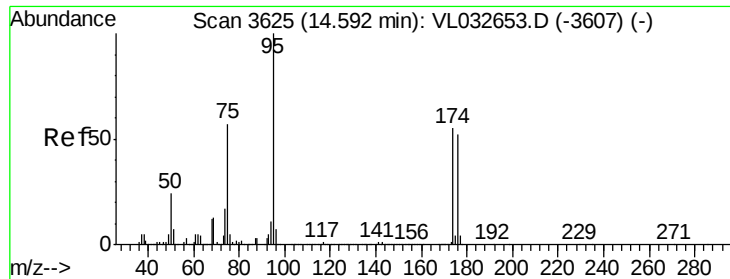
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#59
m/p-Xylene
Concen: 0.136 ppbv m
RT: 13.14 min Scan# 3172
Delta R.T. -0.03 min
Lab File: VL032667.D
Acq: 19 Oct 2018 3:45

Tgt Ion: 91 Resp: 47226
Ion Ratio Lower Upper
91 100
106 0.0 35.9 53.9#





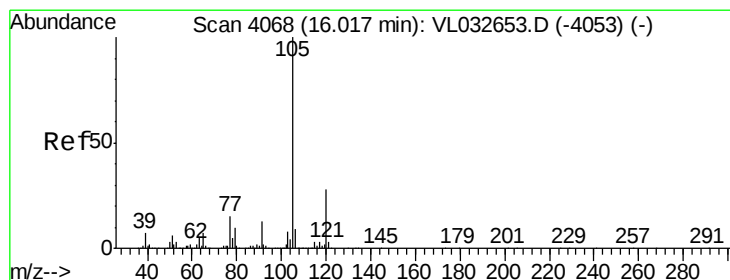
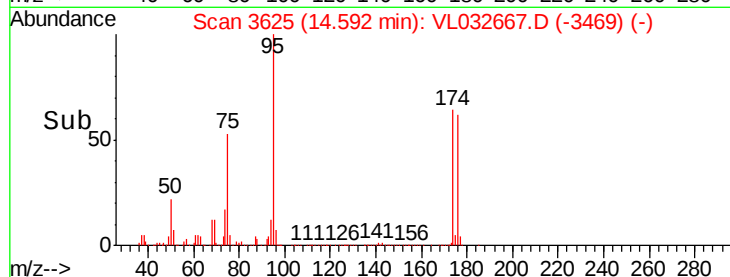
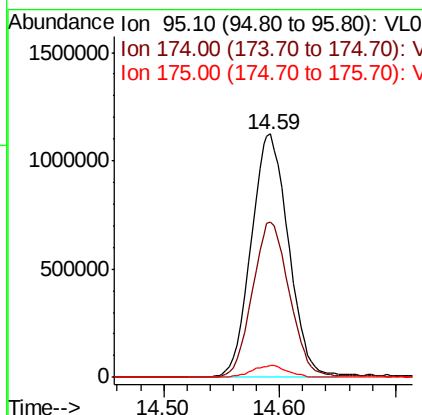
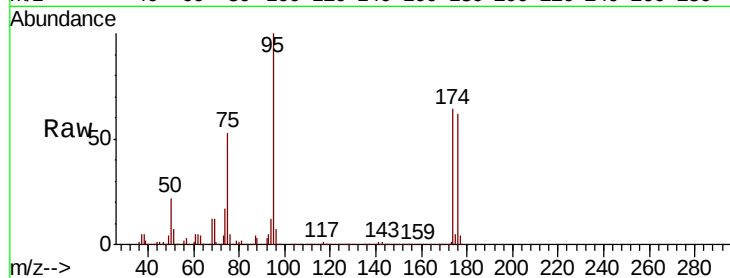
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.049 ppbv
 RT: 14.59 min Scan# 3625
 Delta R.T. 0.00 min
 Lab File: VL032667.D
 Acq: 19 Oct 2018 3:45

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1

Tot Ion: 95 Resp: 2513159
 Ion Ratio Lower Upper
 95 100
 174 64.3 46.0 69.0
 175 4.7 3.4 5.0

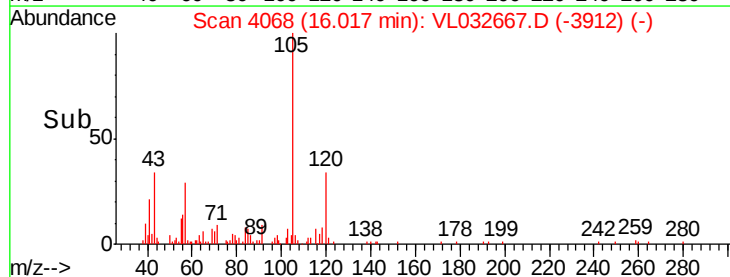
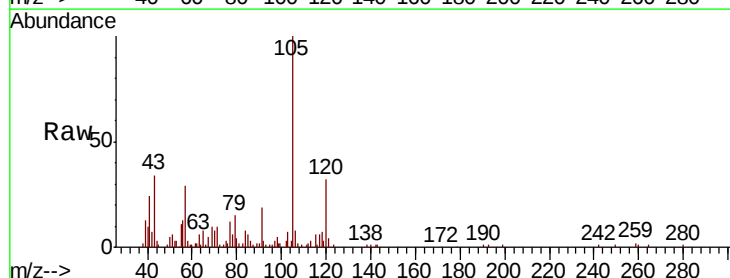
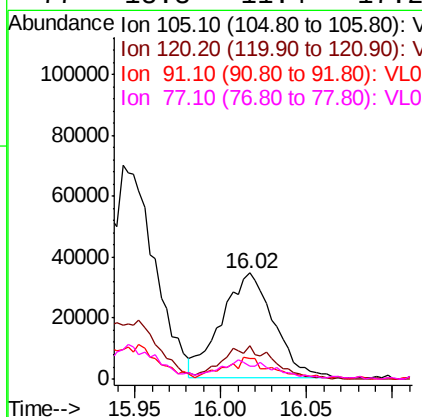
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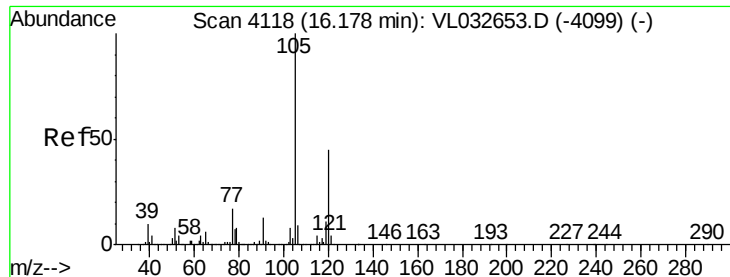
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#72
 4-Ethyltoluene
 Concen: 0.207 ppbv
 RT: 16.02 min Scan# 4068
 Delta R.T. 0.00 min
 Lab File: VL032667.D
 Acq: 19 Oct 2018 3:45

Tgt Ion: 105 Resp: 73945
 Ion Ratio Lower Upper
 105 100
 120 30.4 23.7 35.5
 91 19.5 10.4 15.6#
 77 18.3 11.4 17.2#





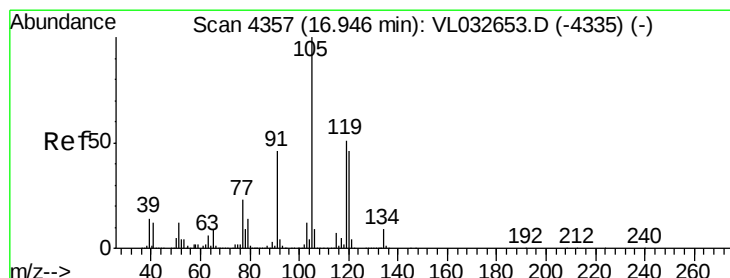
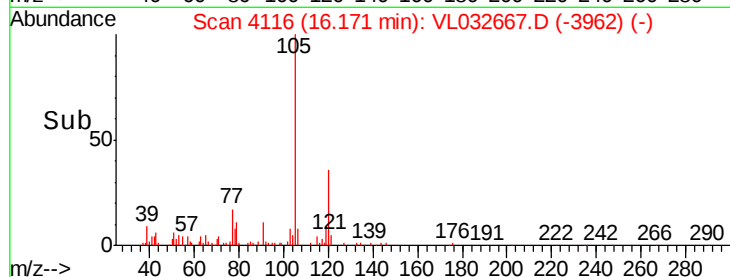
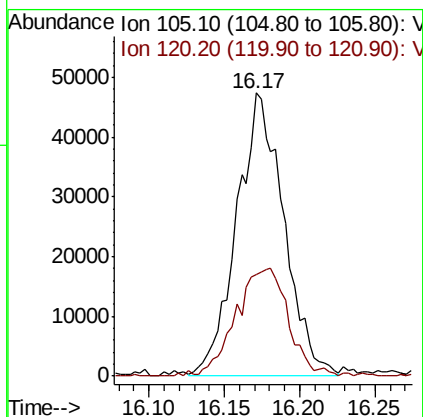
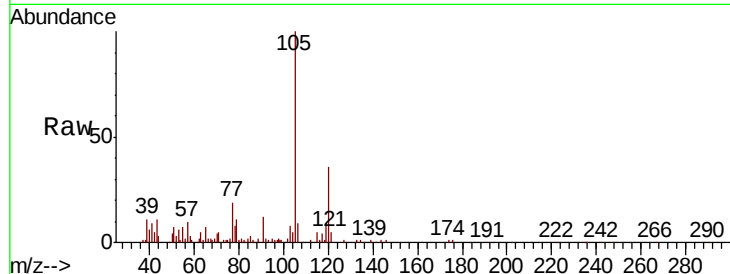
#73
 1,3,5-Trimethylbenzene
 Concen: 0.295 ppbv m
 RT: 16.17 min Scan# 4116
 Delta R.T. -0.01 min
 Lab File: VL032667.D
 Acq: 19 Oct 2018 3:45

Instrument :
 MSVOA_L
 ClientSampled :
 IA-1

Tot Ion	Ratio	Lower	Upper
105	100		
120	35.7	35.4	53.2

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#74
 1,2,4-Trimethylbenzene
 Concen: 0.711 ppbv
 RT: 16.94 min Scan# 4355
 Delta R.T. -0.01 min
 Lab File: VL032667.D
 Acq: 19 Oct 2018 3:45

Tgt Ion	Ratio	Lower	Upper
105	100		
120	44.5	35.8	53.8
91	12.2	33.2	49.8#
77	17.0	16.2	24.4

