

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL101718\
 Data File : VL032646.D
 Acq On : 17 Oct 2018 18:15
 Operator : SY/AP
 Sample : J5500-01 10X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS08-MIVI

Manual Integrations
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 10/19/2018 4:36:40 PM

Quant Time: Oct 18 10:42:04 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL101718AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Wed Oct 17 08:55:11 2018
 QLast Update : Wed Oct 17 08:55:11 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.78	49	1243979	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.31	114	2834040	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.26	117	2872102	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.60	95	2304714	10.66	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Chloromethane	3.18	50	31657	0.56	ppbv	95
9) Propene	3.06	41	591964m	15.51	ppbv	
10) Heptane	8.27	43	2738050	19.16	ppbv	99
13) Ethanol	3.67	45	76690m	6.50	ppbv	
19) Isopropyl Alcohol	4.05	45	65826	0.84	ppbv #	93
20) Methylene Chloride	4.42	84	45285	0.91	ppbv	97
26) Hexane	5.80	57	4268295	36.18	ppbv #	43
27) Carbon Disulfide	4.64	76	24560	0.17	ppbv #	74
29) Chloroform	5.87	83	377280	1.82	ppbv	94
30) Cyclohexane	7.27	84	5521121	59.34	ppbv	97
34) 2-Butanone	5.35	43	80393	0.51	ppbv	97
35) Carbon Tetrachloride	7.16	117	83749	0.38	ppbv	94
36) Benzene	7.03	78	1175678	5.12	ppbv	99
52) Tetrachloroethene	11.40	164	104299	1.38	ppbv	97
53) Toluene	9.97	91	13025435	49.74	ppbv	95
58) Ethyl Benzene	12.89	91	5437419	16.86	ppbv	99
59) m/p-Xylene	13.15	91	11212919	38.94	ppbv	97
60) o-Xylene	13.87	91	4102983	14.30	ppbv	99
62) Isopropylbenzene	14.85	105	298608	0.73	ppbv	99
64) n-propylbenzene	15.75	120	160333	1.55	ppbv	93
67) sec-Butylbenzene	17.48	105	54137	0.10	ppbv	94
69) p-Isopropyltoluene	17.84	119	85437m	0.22	ppbv	
70) n-Butylbenzene	18.74	91	151826m	0.35	ppbv	
72) 4-Ethyltoluene	16.02	105	1360192	4.39	ppbv	98
73) 1,3,5-Trimethylbenzene	16.18	105	851613	2.76	ppbv	97
74) 1,2,4-Trimethylbenzene	16.95	105	2534130	7.46	ppbv #	79

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

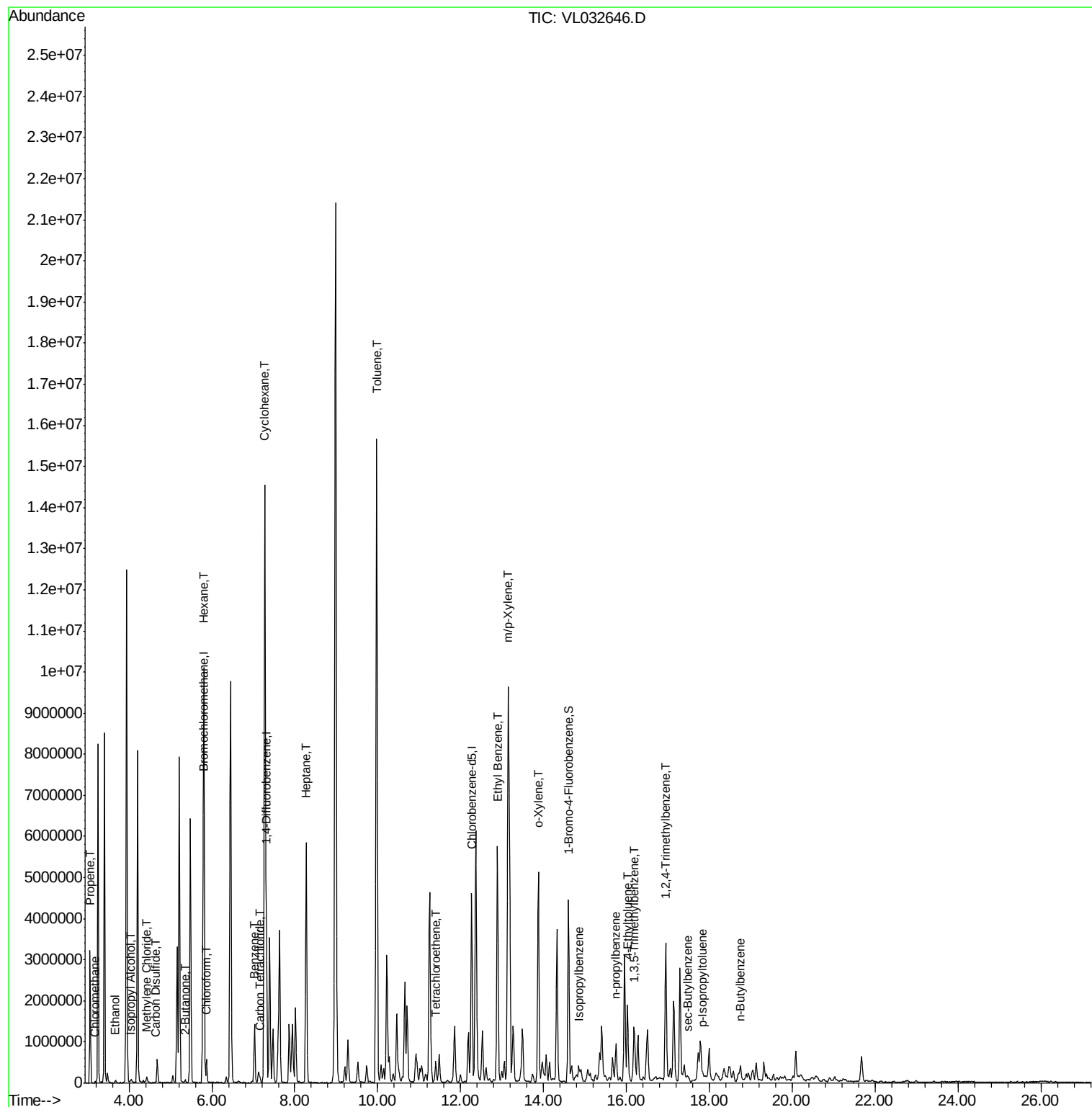
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_L\DATA\VL101718\
Data File : VL032646.D
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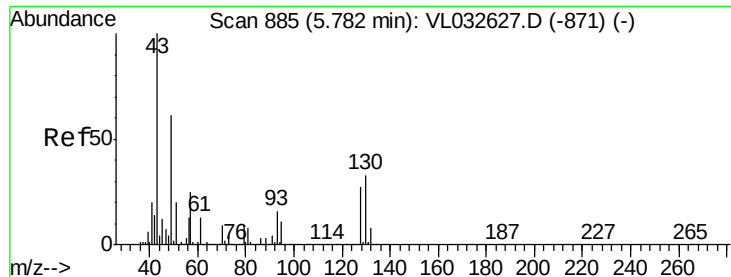
Instrument :
MSVOA_L
ClientSampleId :
SS08-MIVI

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Quant Time: Oct 18 10:42:04 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL101718AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Oct
QLast Update : Wed Oct 17 08:55:11 2018
Response via : Initial Calibration





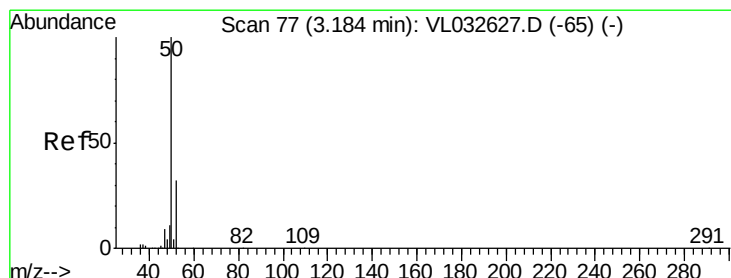
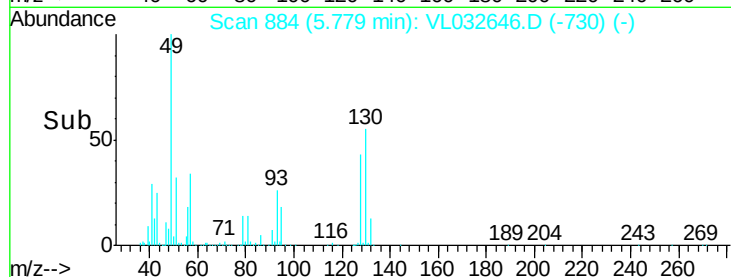
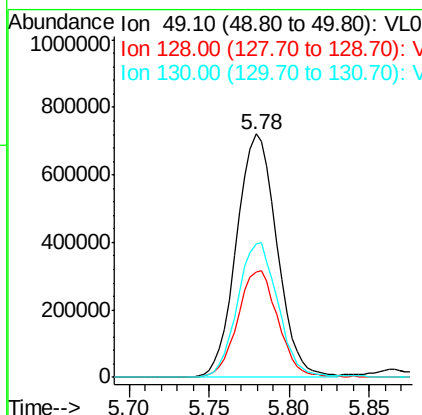
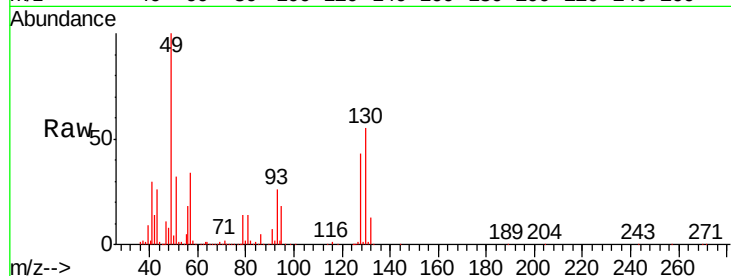
#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 5.78 min Scan# 884
Delta R.T. -0.00 min
Lab File: VL032646.D
Acq: 17 Oct 2018 18:15

Instrument :
MSVOA_L
ClientSampleId :
SS08-MIVI

Tgt Ion	Ratio	Lower	Upper
49	100		
128	44.0	22.3	66.8
130	55.8	28.4	85.3

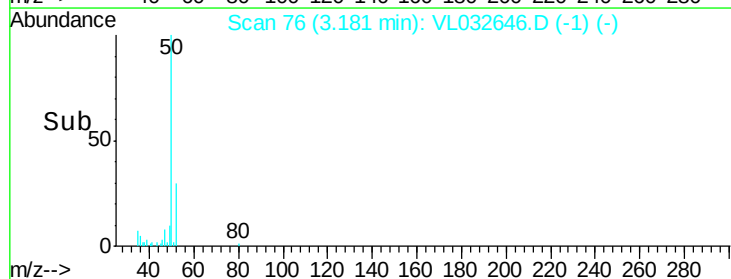
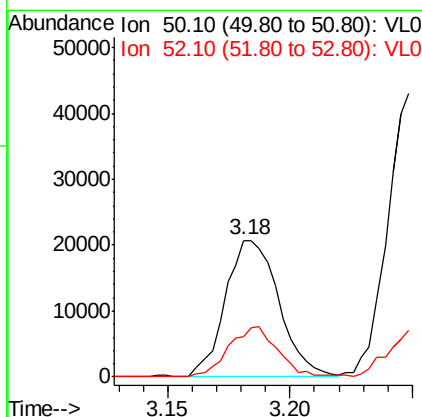
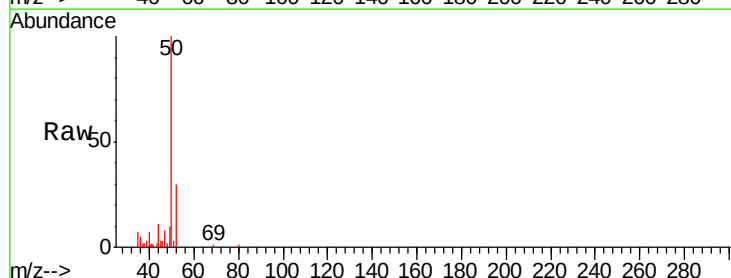
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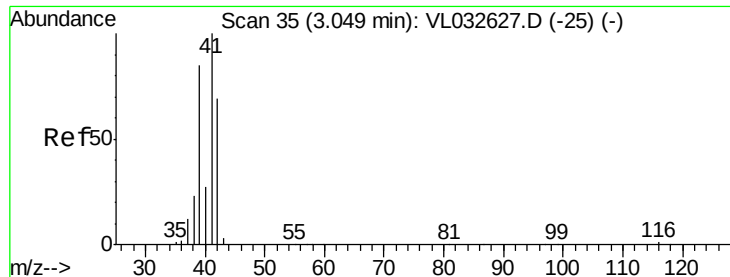
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#4
Chloromethane
Concen: 0.56 ppbv
RT: 3.18 min Scan# 76
Delta R.T. -0.00 min
Lab File: VL032646.D
Acq: 17 Oct 2018 18:15

Tgt Ion	Ratio	Lower	Upper
50	100		
52	29.7	25.9	38.9





#9

Propene

Concen: 15.51 ppbv m

RT: 3.06 min Scan# 39

Delta R.T. 0.01 min

Lab File: VL032646.D

Acq: 17 Oct 2018 18:15

Instrument :

MSVOA_L

ClientSampleId :

SS08-MIVI

Tgt Ion: 41 Resp: 591964

Ion Ratio Lower Upper

41 100

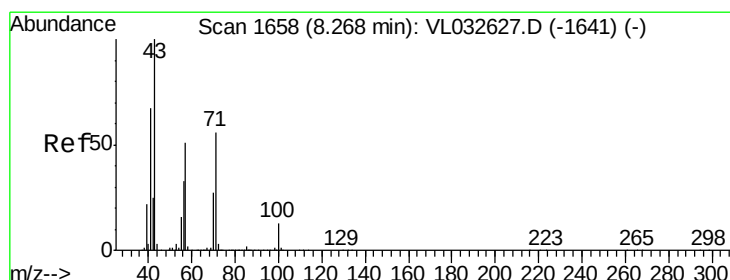
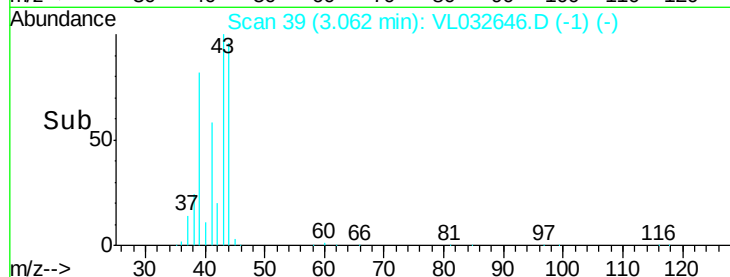
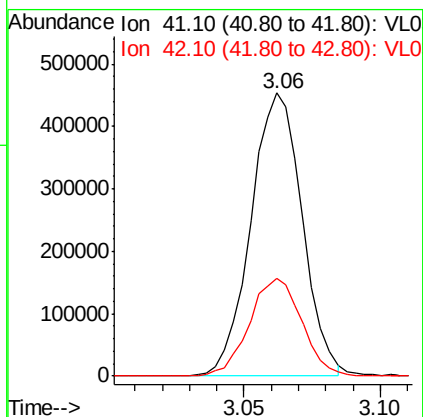
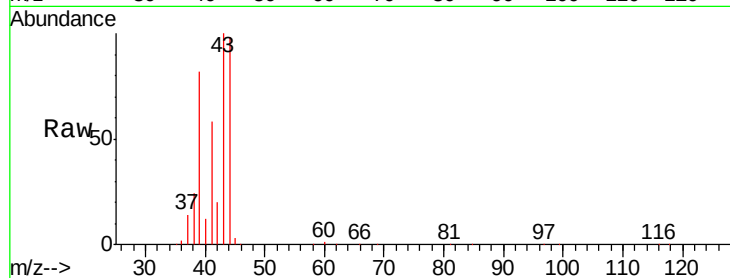
42 276.7 55.4 83.0#

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#10

Heptane

Concen: 19.16 ppbv

RT: 8.27 min Scan# 1660

Delta R.T. 0.01 min

Lab File: VL032646.D

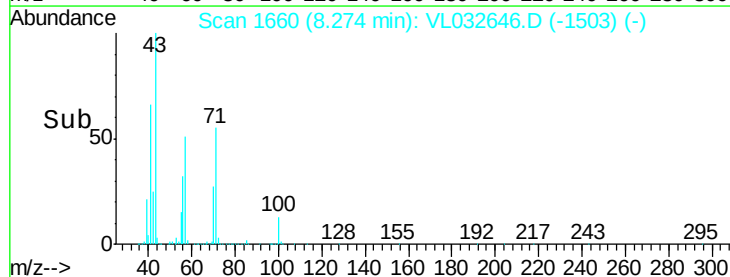
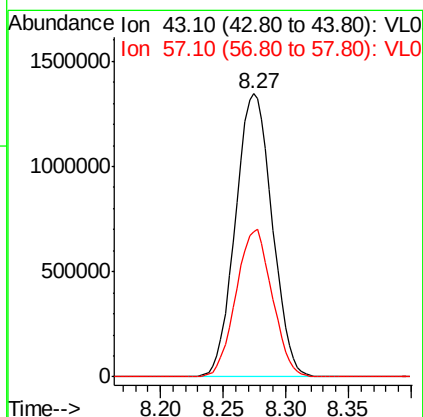
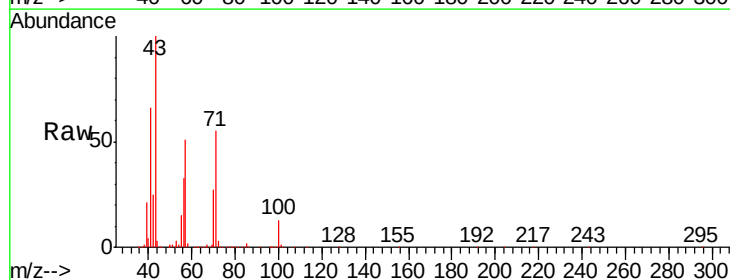
Acq: 17 Oct 2018 18:15

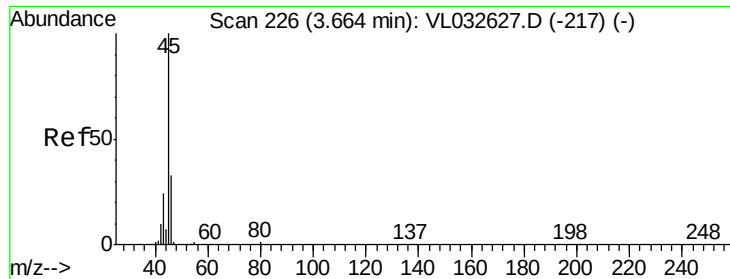
Tgt Ion: 43 Resp: 2738050

Ion Ratio Lower Upper

43 100

57 51.4 41.5 62.3





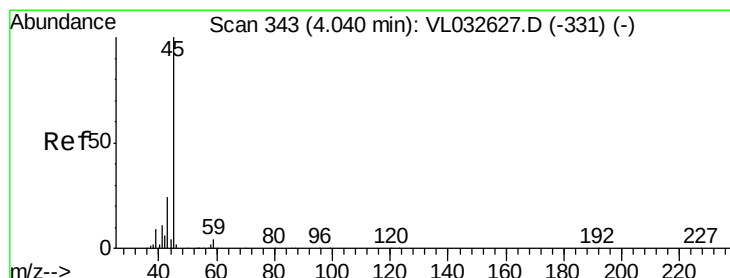
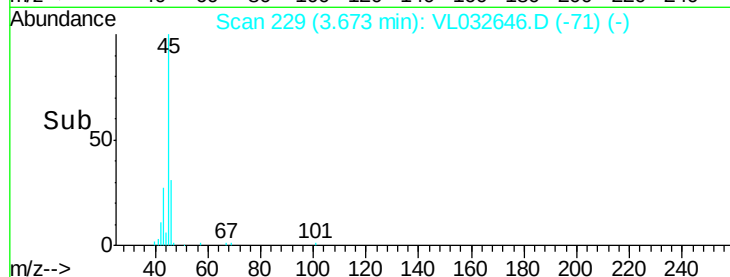
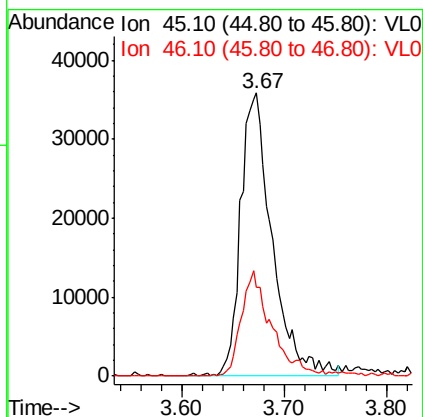
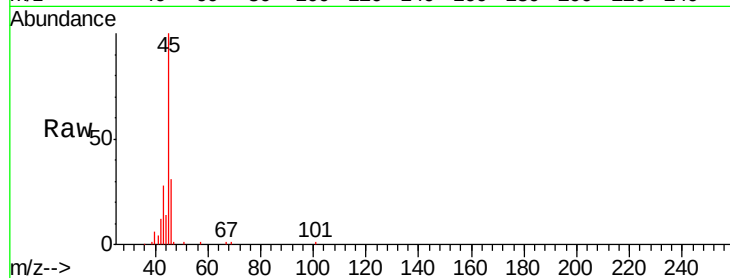
#13
Ethanol
Concen: 6.50 ppbv m
RT: 3.67 min Scan# 229
Delta R.T. 0.01 min
Lab File: VL032646.D
Acq: 17 Oct 2018 18:15

Instrument :
MSVOA_L
ClientSampleId :
SS08-MIVI

Tgt Ion: 45 Resp: 76690
Ion Ratio Lower Upper
45 100
46 35.6 15.4 61.8

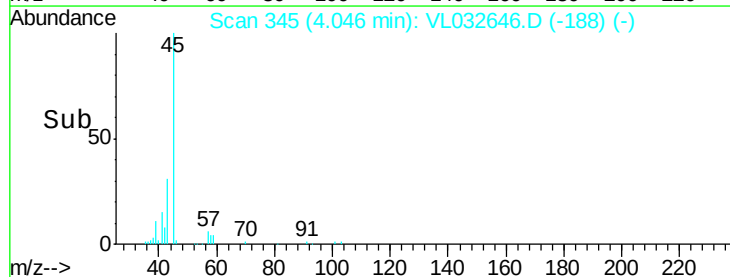
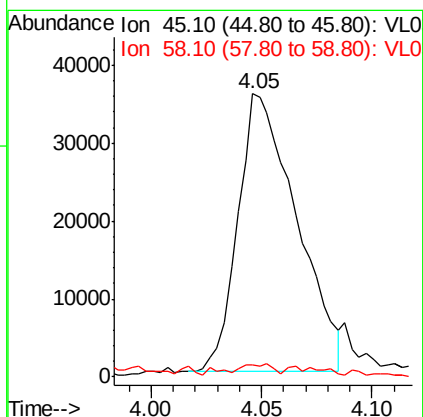
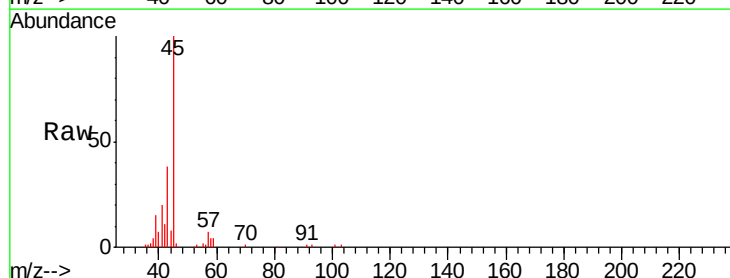
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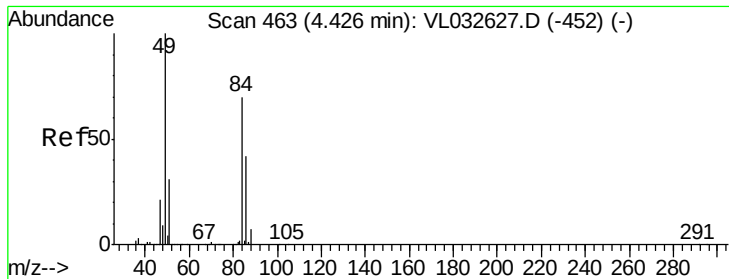
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#19
Isopropyl Alcohol
Concen: 0.84 ppbv
RT: 4.05 min Scan# 345
Delta R.T. 0.01 min
Lab File: VL032646.D
Acq: 17 Oct 2018 18:15

Tgt Ion: 45 Resp: 65826
Ion Ratio Lower Upper
45 100
58 0.0 2.0 3.0#





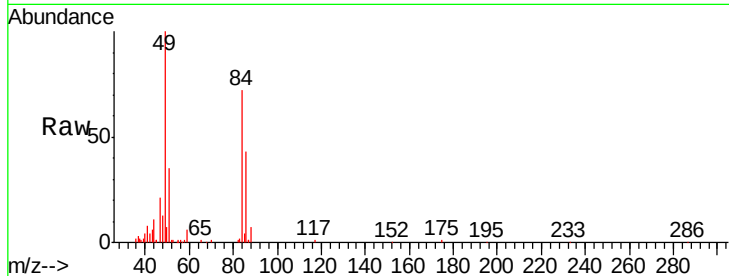
#20
Methylene Chloride
Concen: 0.91 ppbv
RT: 4.42 min Scan# 462
Delta R.T. -0.00 min
Lab File: VL032646.D
Acq: 17 Oct 2018 18:15

Instrument :
MSVOA_L
ClientSampleId :
SS08-MIVI

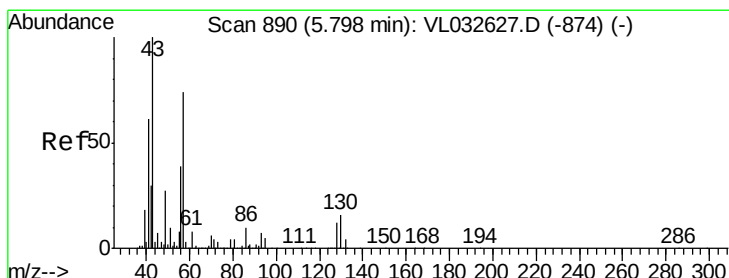
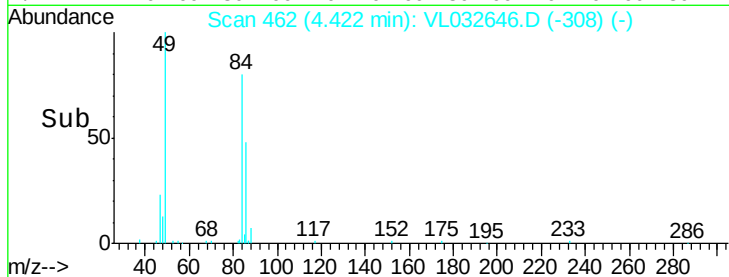
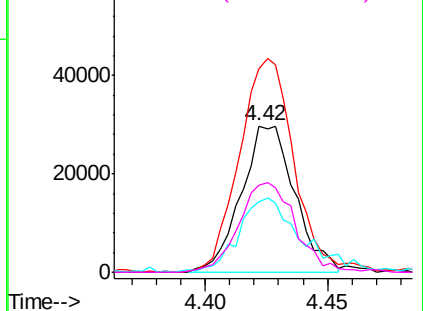
Tgt Ion:	84	Resp:	45285
Ion	Ratio	Lower	Upper
84	100		
49	137.6	113.5	170.3
51	45.7	34.8	52.2
86	58.9	47.9	71.9

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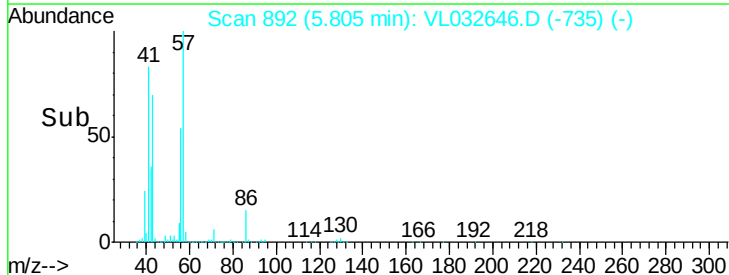
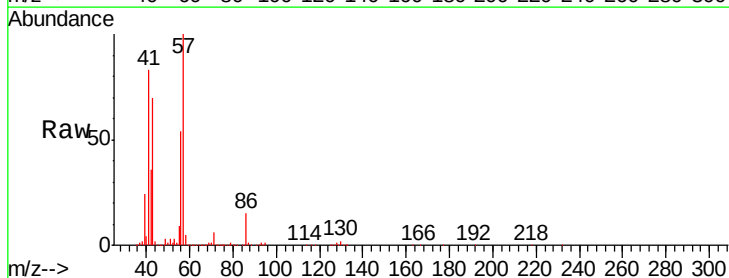
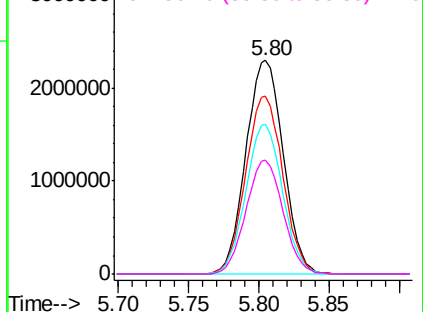
Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

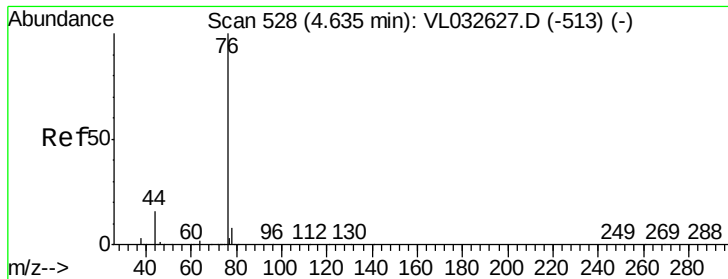


#26
Hexane
Concen: 36.18 ppbv
RT: 5.80 min Scan# 892
Delta R.T. 0.01 min
Lab File: VL032646.D
Acq: 17 Oct 2018 18:15

Tgt Ion:	57	Resp:	4268295
Ion	Ratio	Lower	Upper
57	100		
41	83.0	67.4	101.0
43	68.8	171.9	257.9#
56	52.8	42.6	63.8

Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 0.17 ppbv

RT: 4.64 min Scan# 530

Delta R.T. 0.01 min

Lab File: VL032646.D

Acq: 17 Oct 2018 18:15

Instrument :

MSVOA_L

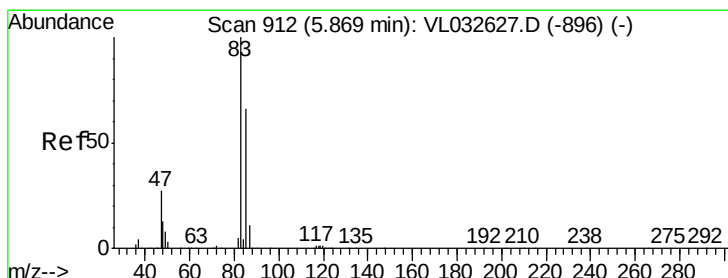
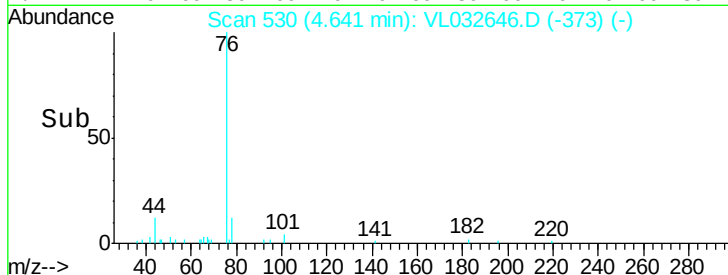
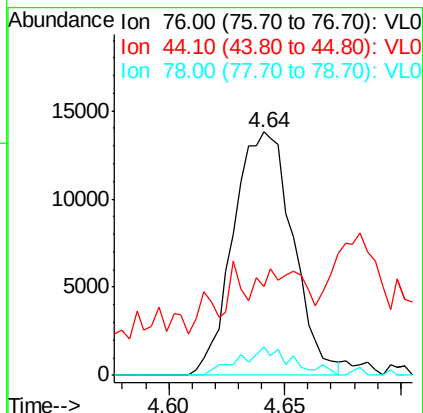
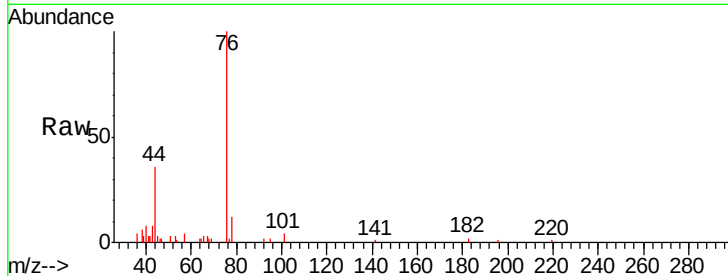
ClientSampled :

SS08-MIVI

Tgt Ion:	76	Resp:	24560
Ion Ratio	Lower	Upper	
76	100		
44	0.0	13.7	20.5#
78	10.3	7.4	11.2

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#29

Chloroform

Concen: 1.82 ppbv

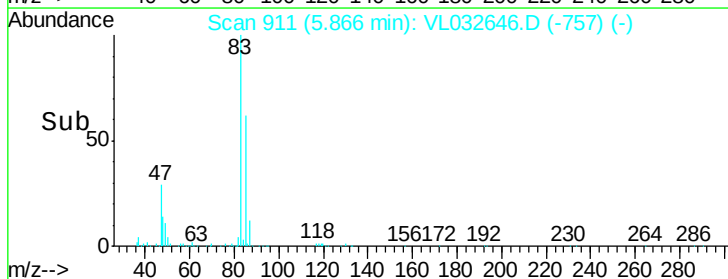
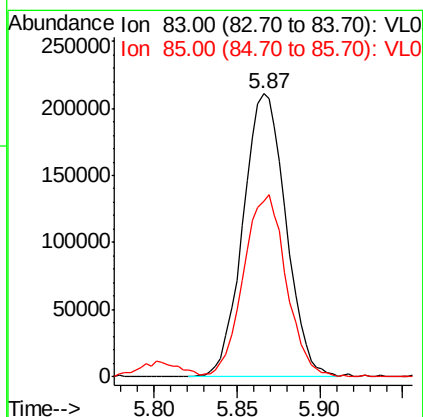
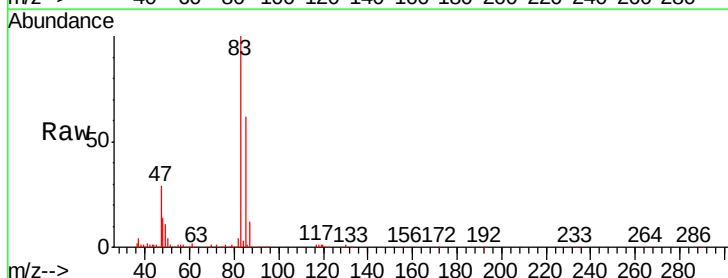
RT: 5.87 min Scan# 911

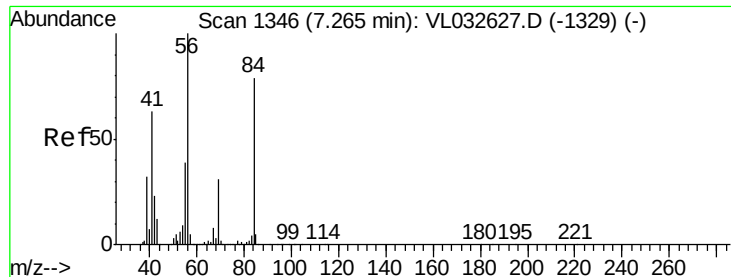
Delta R.T. -0.00 min

Lab File: VL032646.D

Acq: 17 Oct 2018 18:15

Tgt Ion:	83	Resp:	377280
Ion Ratio	Lower	Upper	
83	100		
85	61.7	53.0	79.6





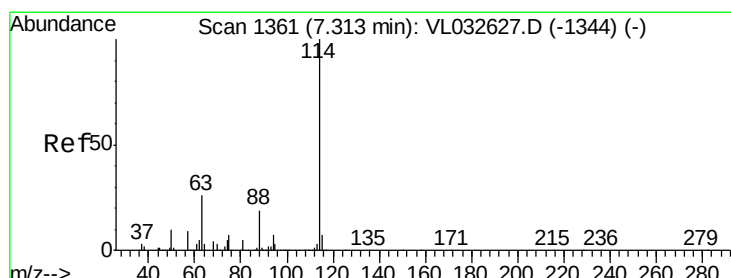
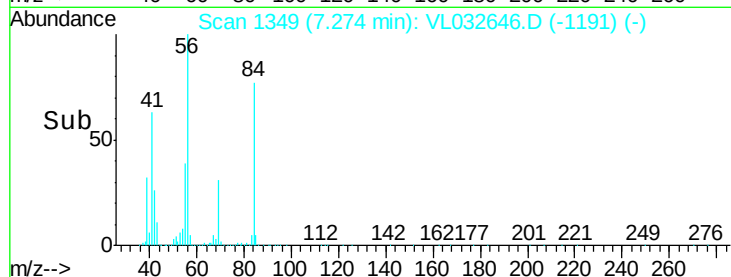
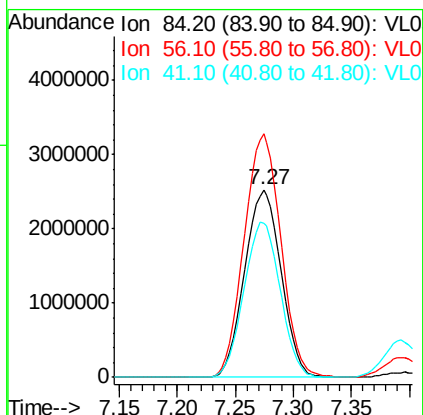
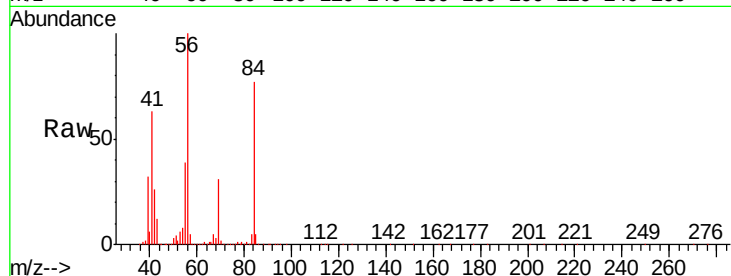
#30
Cyclohexane
Concen: 59.34 ppbv
RT: 7.27 min Scan# 1349
Delta R.T. 0.01 min
Lab File: VL032646.D
Acq: 17 Oct 2018 18:15

Instrument :
MSVOA_L
ClientSampleId :
SS08-MIVI

Tgt Ion: 84 Resp: 5521121
Ion Ratio Lower Upper
84 100
56 131.3 108.3 162.5
41 82.3 64.8 97.2

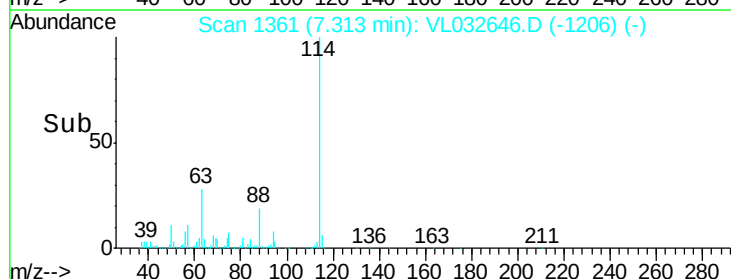
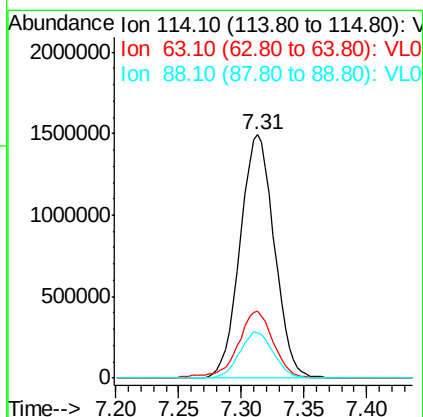
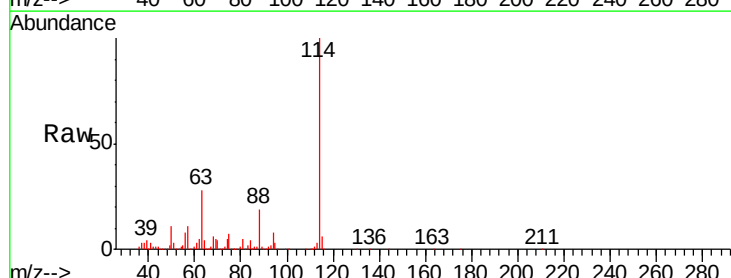
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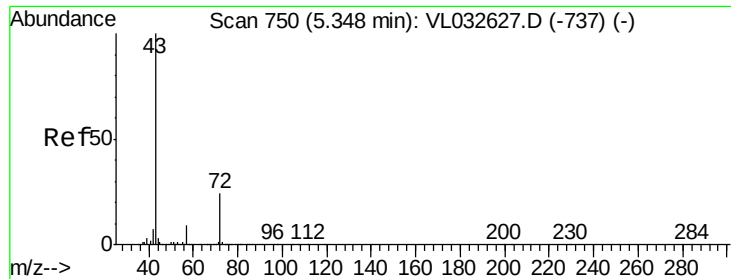
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#33
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 7.31 min Scan# 1361
Delta R.T. -0.00 min
Lab File: VL032646.D
Acq: 17 Oct 2018 18:15

Tgt Ion: 114 Resp: 2834040
Ion Ratio Lower Upper
114 100
63 28.8 21.7 32.5
88 18.7 14.9 22.3





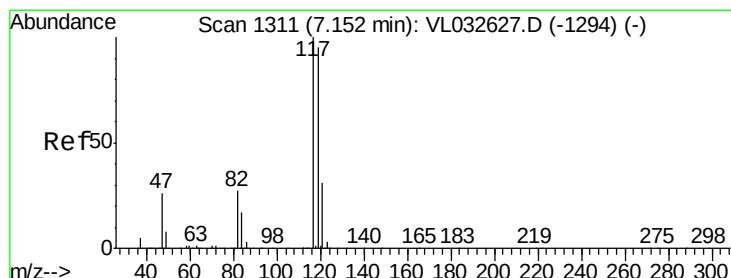
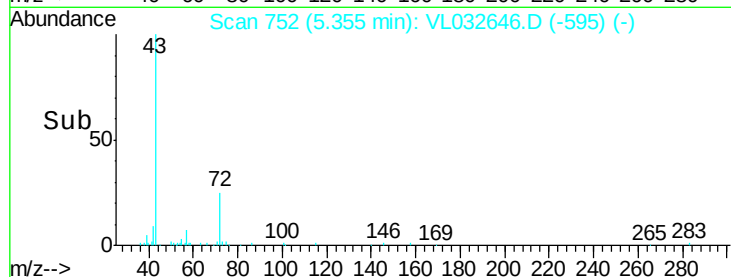
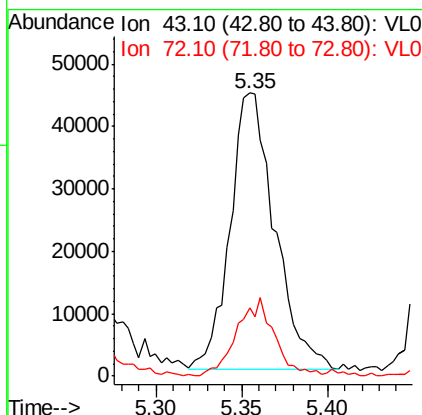
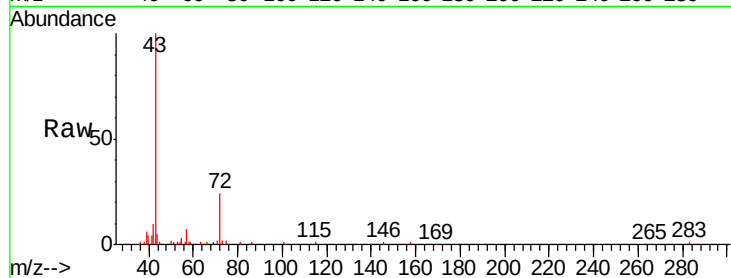
#34
2-Butanone
Concen: 0.51 ppbv
RT: 5.35 min Scan# 752
Delta R.T. 0.01 min
Lab File: VL032646.D
Acq: 17 Oct 2018 18:15

Instrument :
MSVOA_L
ClientSampleId :
SS08-MIVI

Tgt Ion: 43 Resp: 80393
Ion Ratio Lower Upper
43 100
72 24.8 18.6 27.8

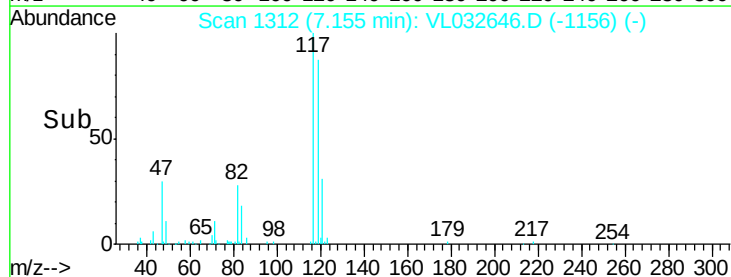
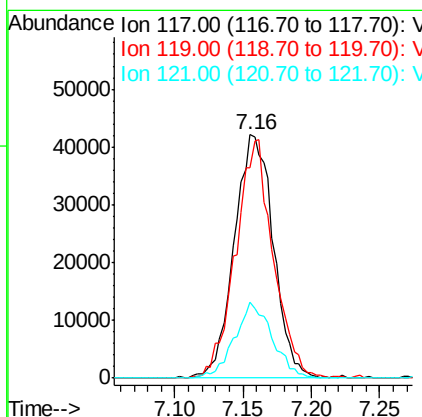
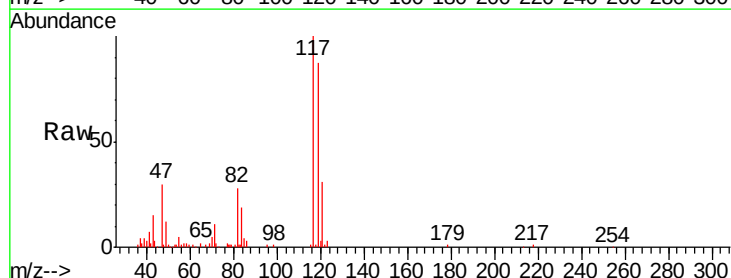
Manual Integrations
APPROVED

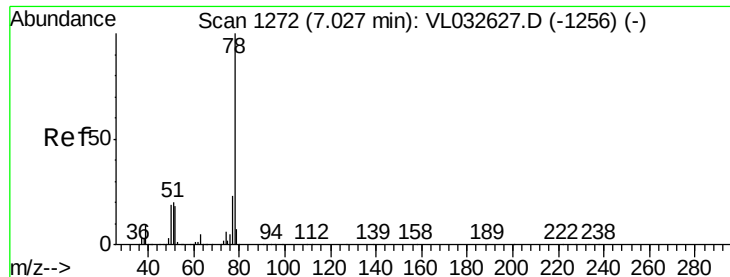
MMDadoda
10/19/2018 4:36:40 PM



#35
Carbon Tetrachloride
Concen: 0.38 ppbv
RT: 7.16 min Scan# 1312
Delta R.T. 0.00 min
Lab File: VL032646.D
Acq: 17 Oct 2018 18:15

Tgt Ion: 117 Resp: 83749
Ion Ratio Lower Upper
117 100
119 86.6 75.7 113.5
121 31.2 24.7 37.1





#36

Benzene

Concen: 5.12 ppbv

RT: 7.03 min Scan# 1272

Delta R.T. -0.00 min

Lab File: VL032646.D

Acq: 17 Oct 2018 18:15

Instrument :

MSVOA_L

ClientSampleId :

SS08-MIVI

Tgt Ion: 78 Resp: 1175678

Ion Ratio Lower Upper

78 100

77 21.4 18.1 27.1

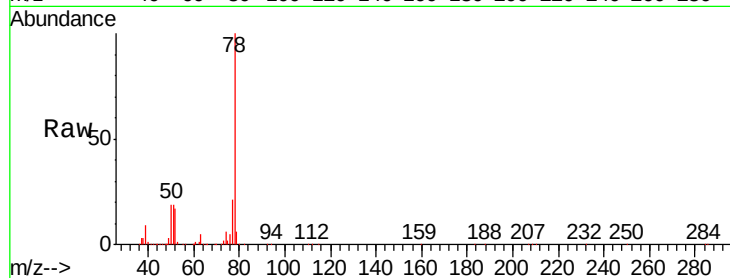
50 18.7 15.1 22.7

Manual Integrations

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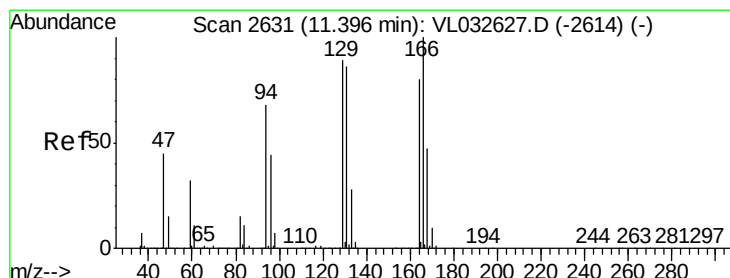
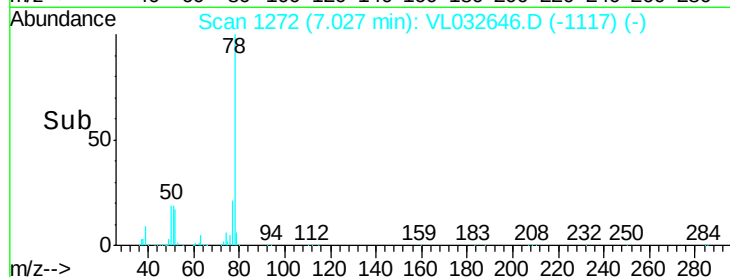
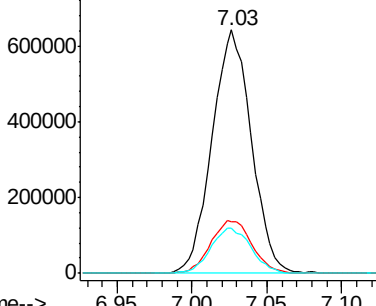
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Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0



#52

Tetrachloroethene

Concen: 1.38 ppbv

RT: 11.40 min Scan# 2632

Delta R.T. 0.00 min

Lab File: VL032646.D

Acq: 17 Oct 2018 18:15

Tgt Ion: 164 Resp: 104299

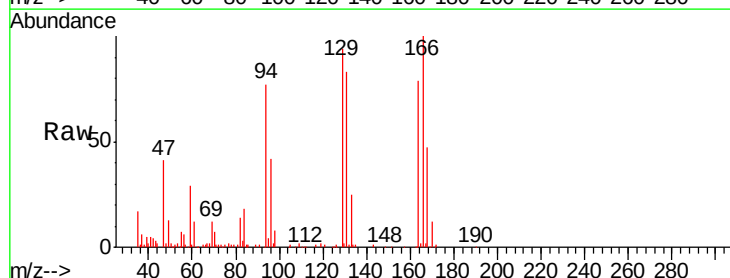
Ion Ratio Lower Upper

164 100

166 125.7 100.5 150.7

129 118.9 90.0 135.0

131 104.4 86.6 129.8

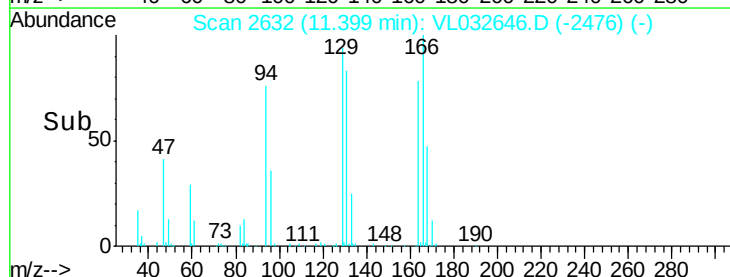
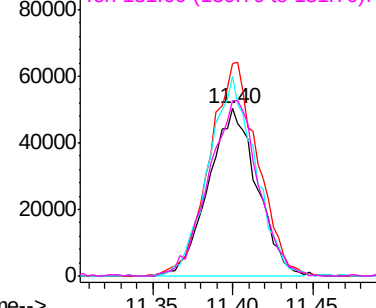


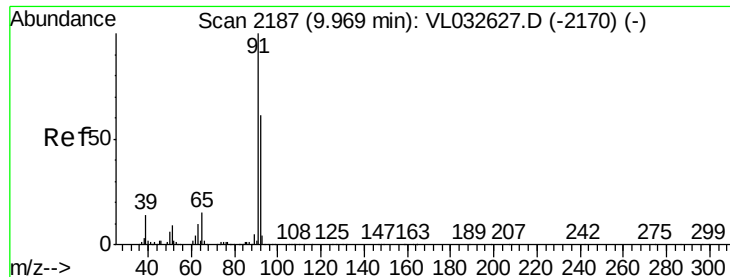
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 49.74 ppbv

RT: 9.97 min Scan# 2189

Delta R.T. 0.01 min

Lab File: VL032646.D

Acq: 17 Oct 2018 18:15

Instrument :

MSVOA_L

ClientSampleId :

SS08-MIVI

Tgt Ion: 91 Resp:13025435

Ion Ratio Lower Upper

91 100

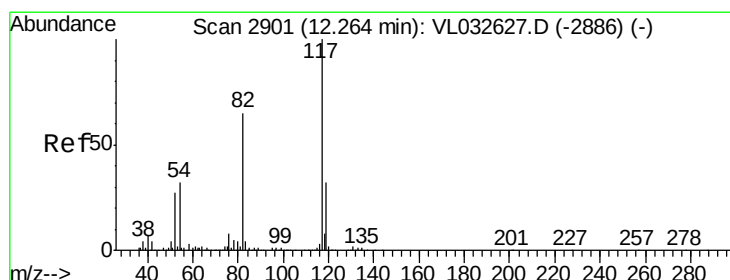
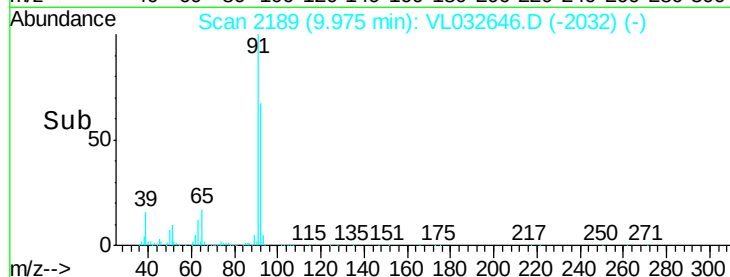
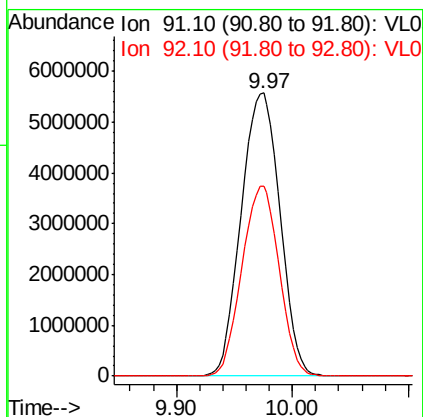
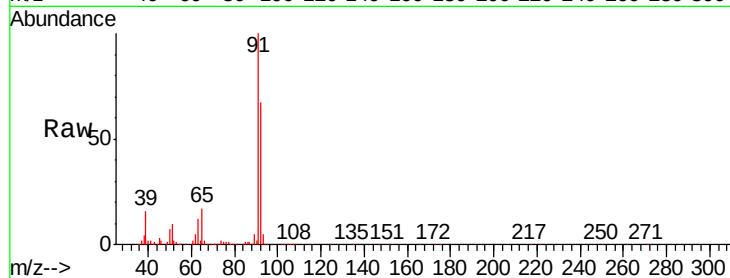
92 64.3 48.4 72.6

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#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.26 min Scan# 2901

Delta R.T. -0.00 min

Lab File: VL032646.D

Acq: 17 Oct 2018 18:15

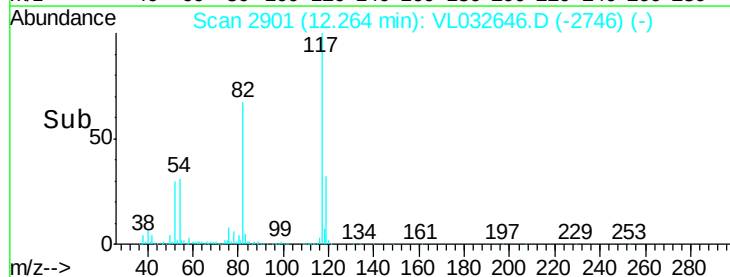
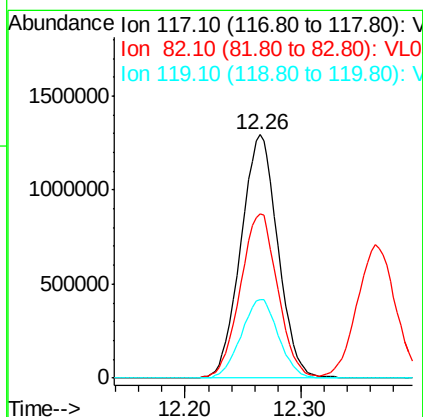
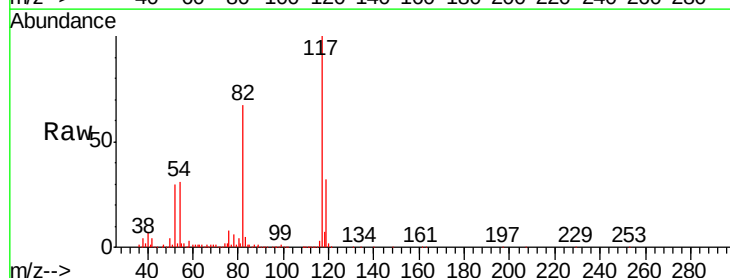
Tgt Ion:117 Resp: 2872102

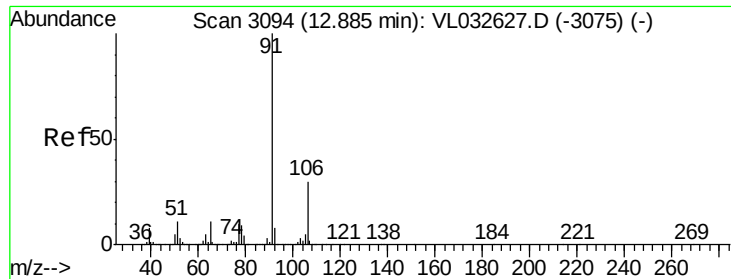
Ion Ratio Lower Upper

117 100

82 68.1 52.7 79.1

119 32.5 26.7 40.1





#58

Ethyl Benzene

Concen: 16.86 ppbv

RT: 12.89 min Scan# 3095

Delta R.T. 0.00 min

Lab File: VL032646.D

Acq: 17 Oct 2018 18:15

Instrument :

MSVOA_L

ClientSampleId :

SS08-MIVI

Tgt Ion: 91 Resp: 5437419

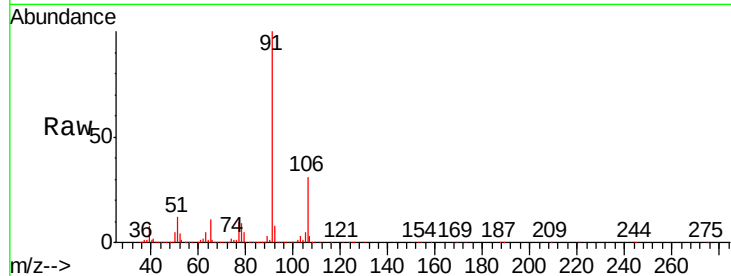
Ion Ratio Lower Upper

91 100

106 30.6 24.2 36.2

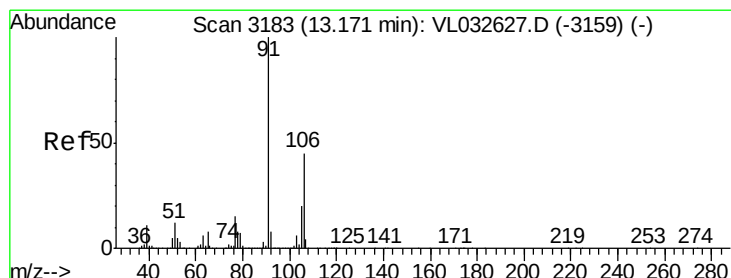
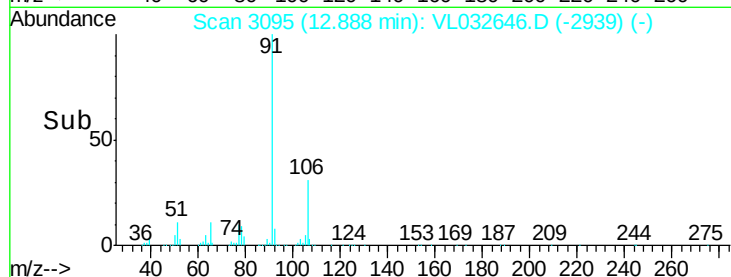
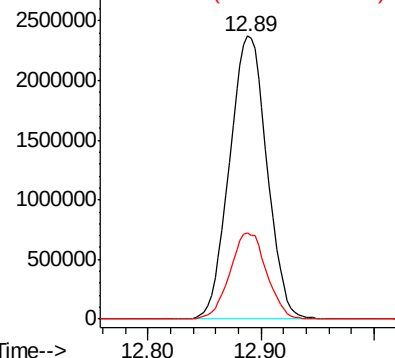
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#59

m/p-Xylene

Concen: 38.94 ppbv

RT: 13.15 min Scan# 3176

Delta R.T. -0.02 min

Lab File: VL032646.D

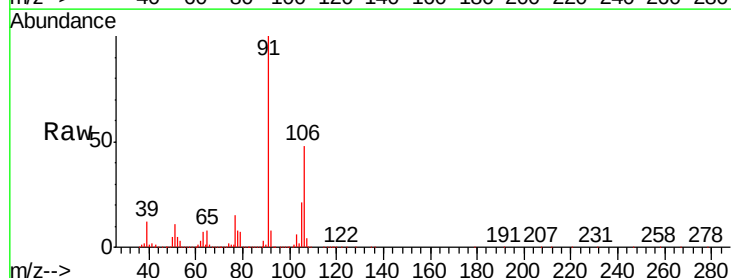
Acq: 17 Oct 2018 18:15

Tgt Ion: 91 Resp: 11212919

Ion Ratio Lower Upper

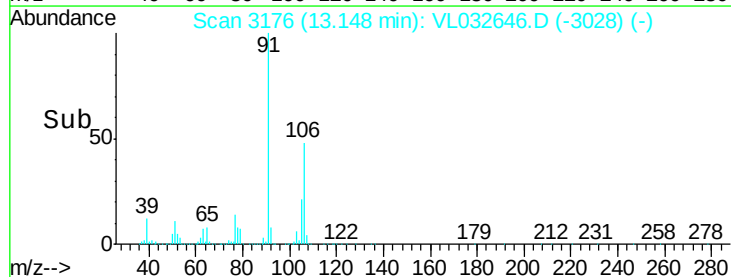
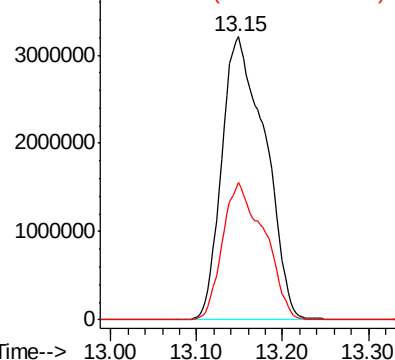
91 100

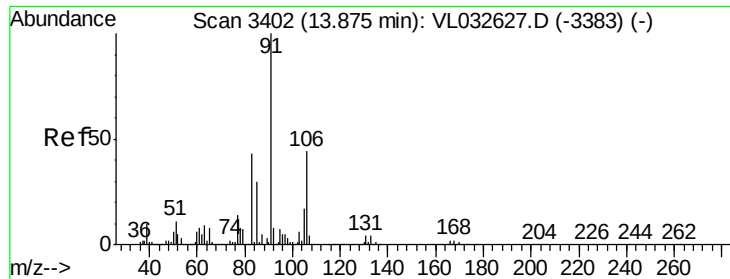
106 47.0 35.9 53.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#60

o-Xylene

Concen: 14.30 ppbv

RT: 13.87 min Scan# 3401

Delta R.T. -0.00 min

Lab File: VL032646.D

Acq: 17 Oct 2018 18:15

Instrument :

MSVOA_L

ClientSampleId :

SS08-MIVI

Tgt Ion: 91 Resp: 4102983

Ion Ratio Lower Upper

91 100

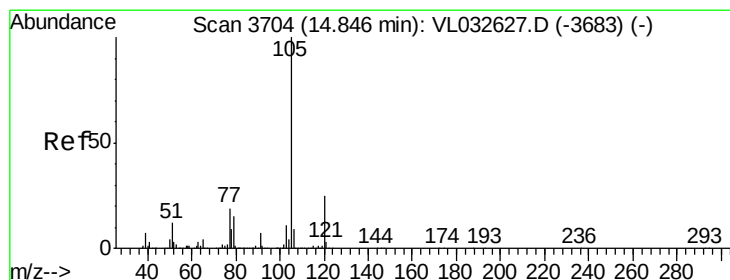
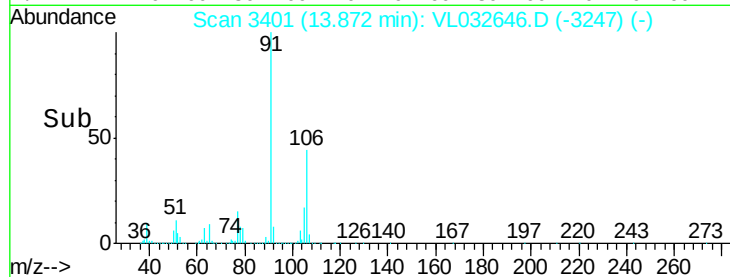
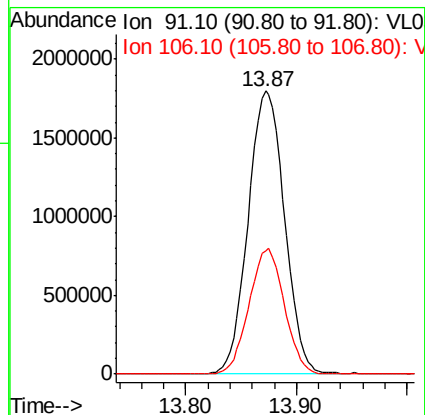
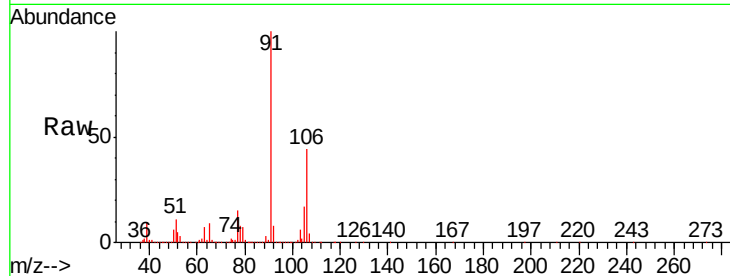
106 43.3 22.1 66.1

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#62

Isopropylbenzene

Concen: 0.73 ppbv

RT: 14.85 min Scan# 3705

Delta R.T. 0.00 min

Lab File: VL032646.D

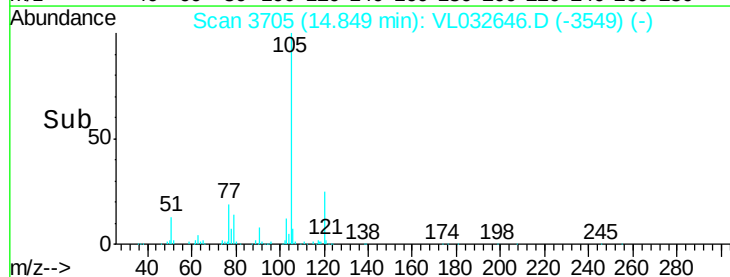
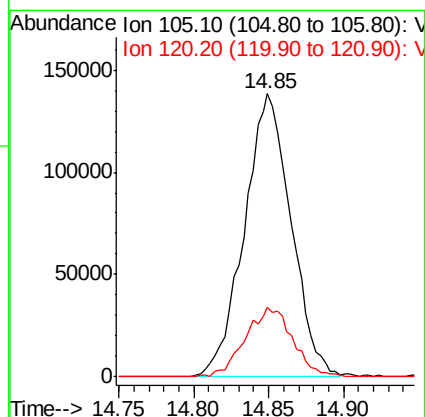
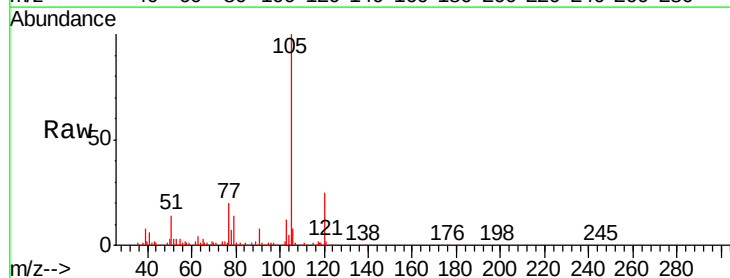
Acq: 17 Oct 2018 18:15

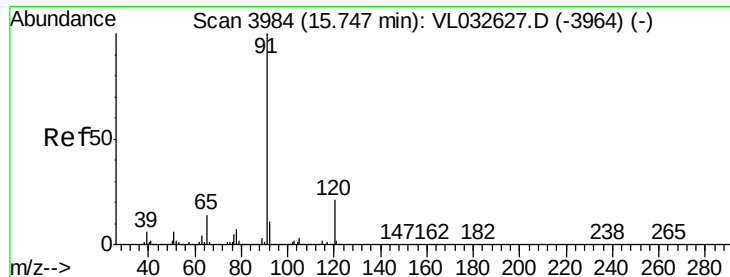
Tgt Ion: 105 Resp: 298608

Ion Ratio Lower Upper

105 100

120 25.2 20.5 30.7





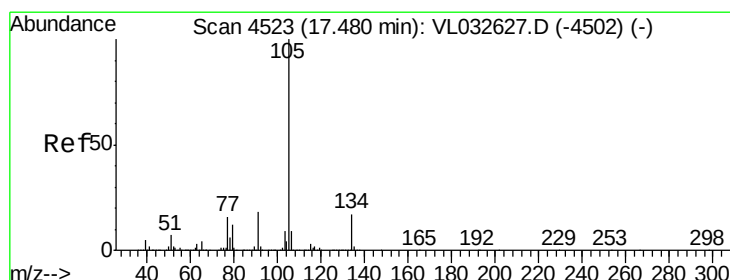
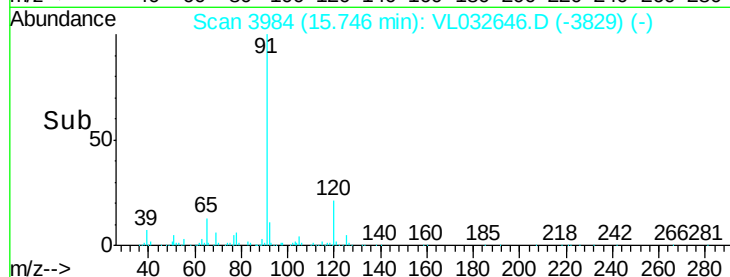
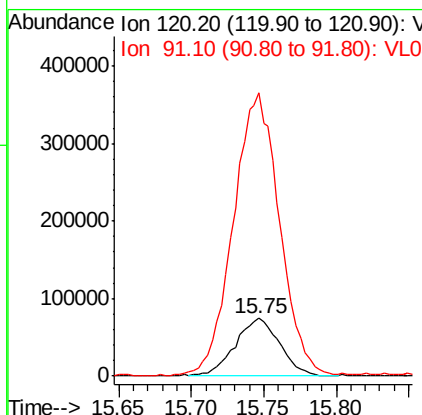
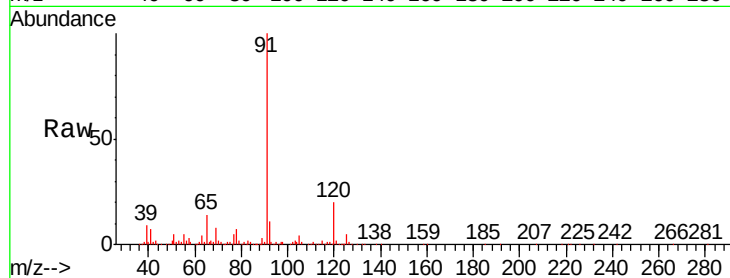
#64
n-propylbenzene
Concen: 1.55 ppbv
RT: 15.75 min Scan# 3984
Delta R.T. -0.00 min
Lab File: VL032646.D
Acq: 17 Oct 2018 18:15

Instrument :
MSVOA_L
ClientSampleId :
SS08-MIVI

Tgt Ion:120 Resp: 160333
Ion Ratio Lower Upper
120 100
91 507.7 390.2 585.2

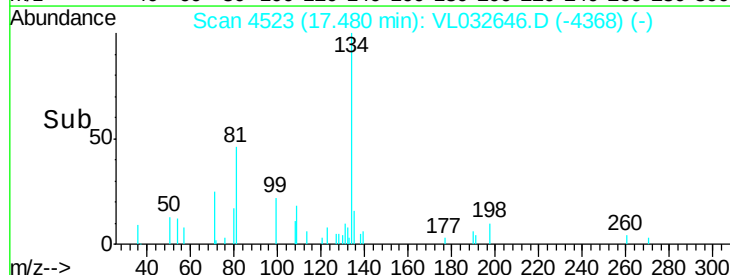
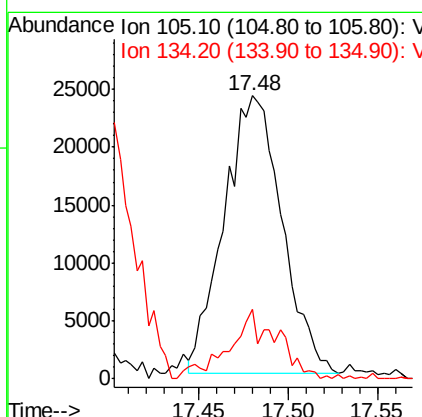
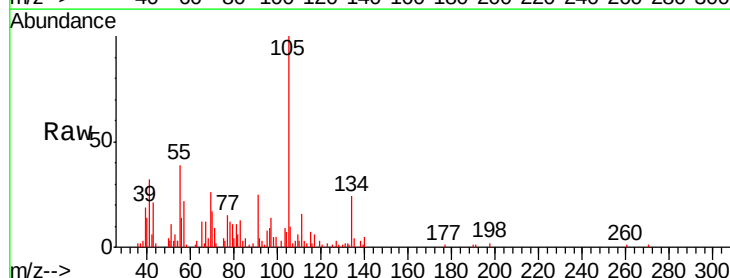
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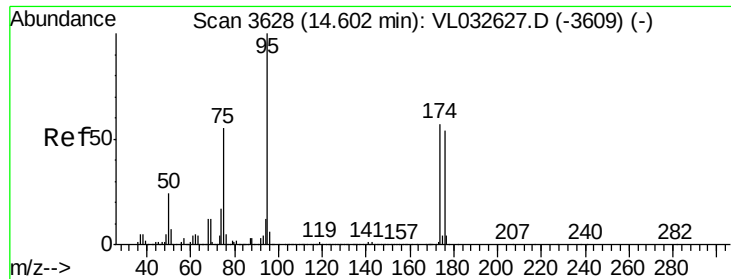
MMDadoda
10/19/2018 4:36:40 PM



#67
sec-Butylbenzene
Concen: 0.10 ppbv
RT: 17.48 min Scan# 4523
Delta R.T. -0.00 min
Lab File: VL032646.D
Acq: 17 Oct 2018 18:15

Tgt Ion:105 Resp: 54137
Ion Ratio Lower Upper
105 100
134 20.5 14.2 21.2





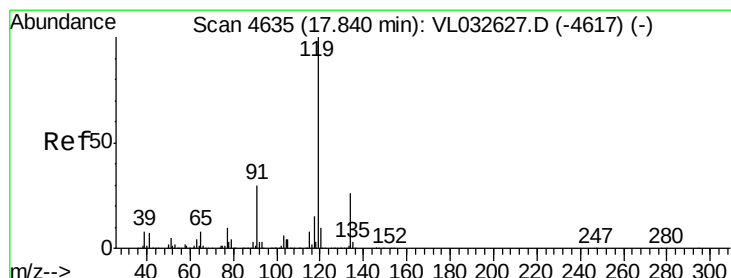
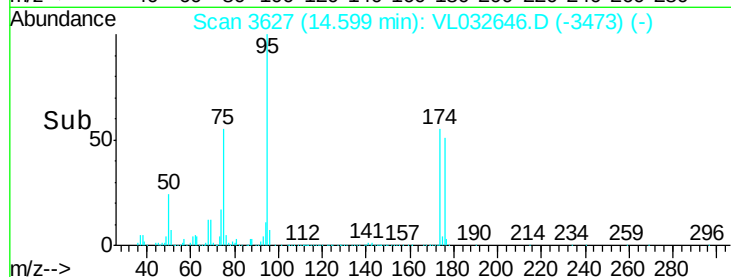
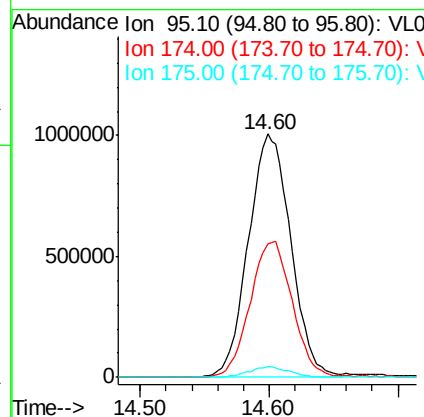
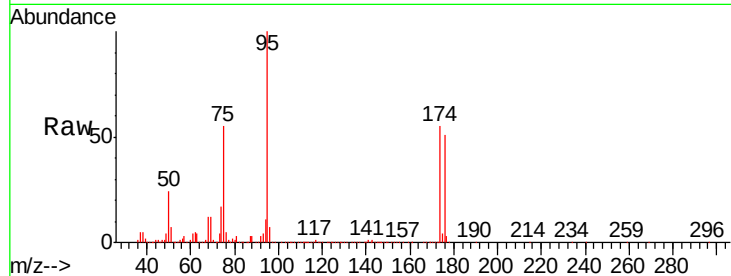
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.66 ppbv
 RT: 14.60 min Scan# 3627
 Delta R.T. -0.00 min
 Lab File: VL032646.D
 Acq: 17 Oct 2018 18:15

Instrument :
 MSVOA_L
 ClientSampleId :
 SS08-MIVI

Tgt Ion: 95 Resp: 2304714
 Ion Ratio Lower Upper
 95 100
 174 56.4 46.0 69.0
 175 4.2 3.4 5.0

Manual Integrations
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#69
 p-Isopropyltoluene
 Concen: 0.22 ppbv m
 RT: 17.84 min Scan# 4634
 Delta R.T. -0.00 min
 Lab File: VL032646.D
 Acq: 17 Oct 2018 18:15

Tgt Ion: 119 Resp: 85437
 Ion Ratio Lower Upper
 119 100
 134 37.4 20.2 30.2#
 91 46.5 24.0 36.0#

