

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090518\
 Data File : VL032464.D
 Acq On : 5 Sep 2018 19:31
 Operator : SY/AP
 Sample : J4745-01 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VP-6

Manual Integrations
 APPROVED

MMDadoda
 9/7/2018 10:45:59 AM

Quant Time: Sep 06 06:58:35 2018

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL083118AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 31

QLast Update : Fri Aug 31 21:33:46 2018

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.80	49	1648100	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.34	114	3437162	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.30	117	3433457	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.63	95	2668150	10.47	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.70%

Target Compounds

					Ovalue
9) Propene	3.07	41	1077892m	17.91	ppbv
10) Heptane	8.29	43	450857	2.09	ppbv 96
11) Trichlorofluoromethane	4.04	101	20209	0.11	ppbv 97
13) Ethanol	3.68	45	529724	28.24	ppbv 96
15) Acetone	3.93	43	1230892	8.29	ppbv # 47
16) 1,3-Butadiene	3.38	39	99718m	1.43	ppbv
17) tert-Butyl alcohol	4.39	59	612749	26.83	ppbv # 100
20) Methylene Chloride	4.45	84	43792	0.77	ppbv # 92
26) Hexane	5.82	57	733475	4.67	ppbv # 45
27) Carbon Disulfide	4.66	76	39035	0.27	ppbv # 82
34) 2-Butanone	5.37	43	972683	4.26	ppbv 100
36) Benzene	7.05	78	291983	1.00	ppbv # 93
41) Tetrahydrofuran	6.20	42	67165	0.54	ppbv # 91
44) 2,2,4-Trimethylpentane	8.04	57	197442	0.35	ppbv # 60
50) 4-Methyl-2-Pentanone	8.92	43	382875	1.11	ppbv 98
51) 2-Hexanone	10.32	43	658400	2.97	ppbv # 94
52) Tetrachloroethene	11.43	164	53686m	0.59	ppbv
53) Toluene	10.00	91	710196	2.32	ppbv 100
58) Ethyl Benzene	12.92	91	198086	0.48	ppbv 99
59) m/p-Xylene	13.18	91	422286	1.15	ppbv 99
60) o-Xylene	13.90	91	166637	0.46	ppbv 99
69) p-Isopropyltoluene	17.87	119	139783	0.28	ppbv # 91
73) 1,3,5-Trimethylbenzene	16.21	105	106245	0.27	ppbv 87
74) 1,2,4-Trimethylbenzene	16.98	105	330544m	0.77	ppbv

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

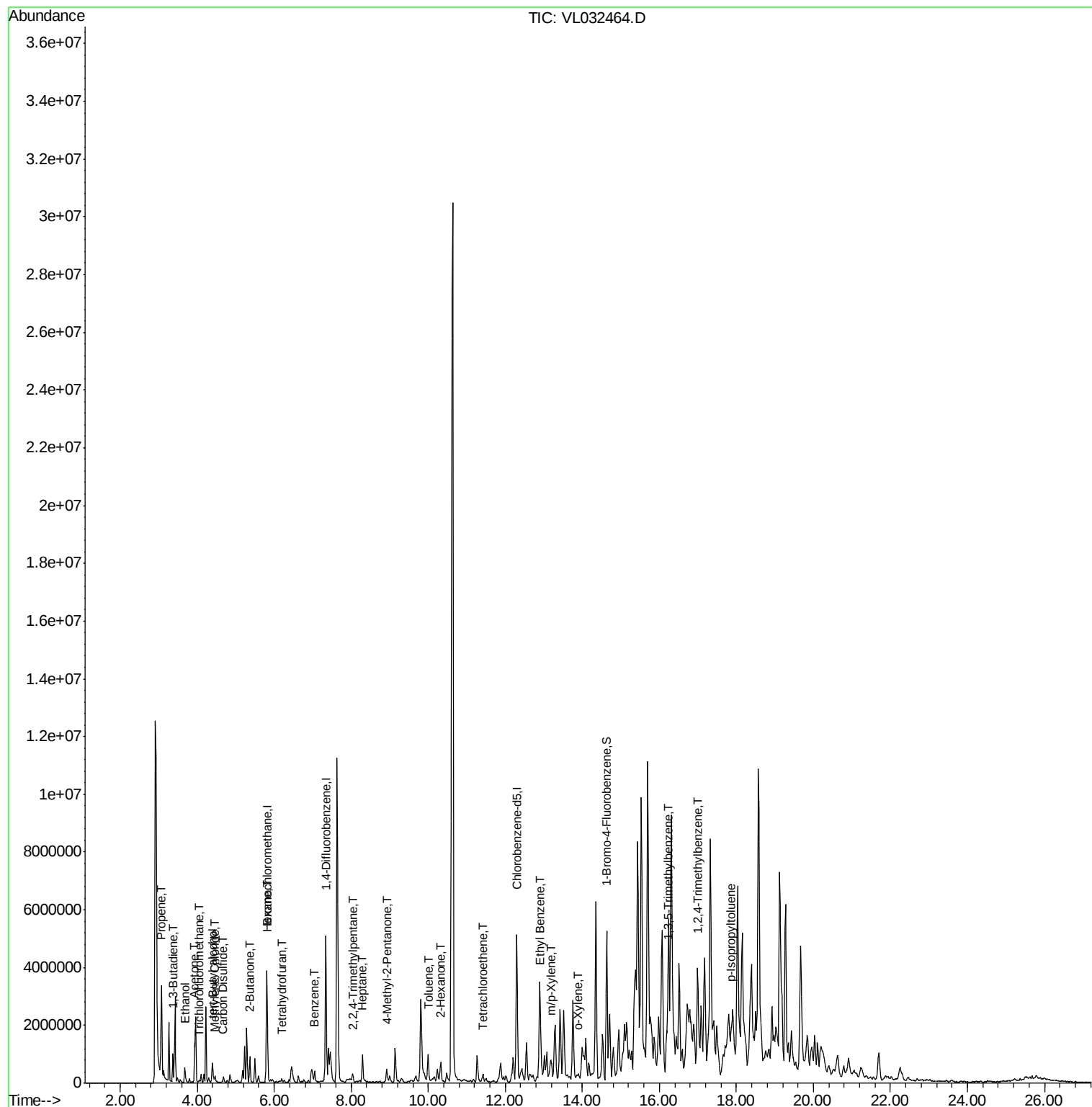
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090518\
Data File : VL032464.D
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Operator : SY/AP
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Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

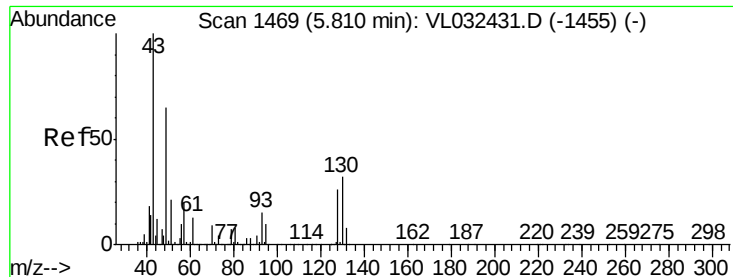
Instrument :
MSVOA_L
ClientSampleId :
VP-6

Manual Integrations
APPROVED

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9/7/2018 10:45:59 AM

Quant Time: Sep 06 06:58:35 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL083118AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Aug 31 21:33:46 2018
Response via : Initial Calibration





#1

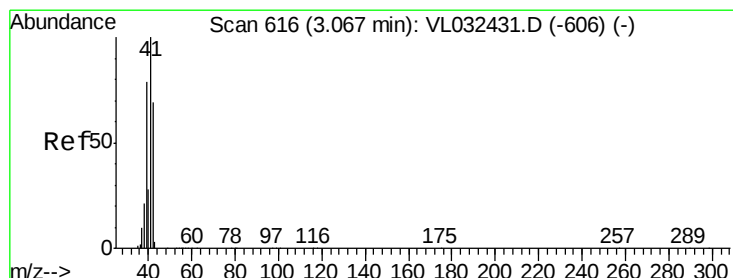
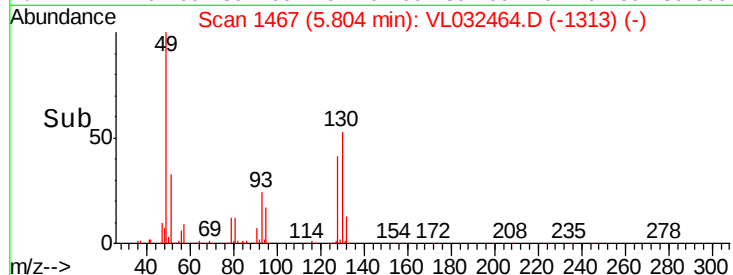
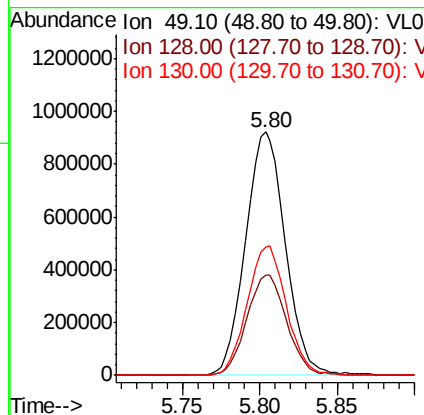
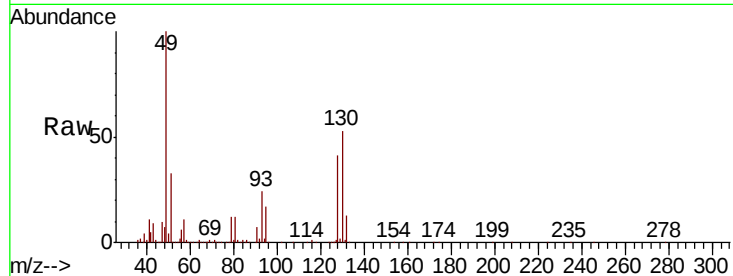
Bromochloromethane
 Concen: 10.00 ppbv
 RT: 5.80 min Scan# 1467
 Delta R.T. -0.01 min
 Lab File: VL032464.D
 Acq: 5 Sep 2018 19:31

Instrument :
 MSVOA_L
 ClientSampled :
 VP-6

Tot Ion: 49 Resp: 1648100
 Ion Ratio Lower Upper
 49 100
 128 41.6 20.7 62.1
 130 52.8 26.6 79.7

Manual Integrations
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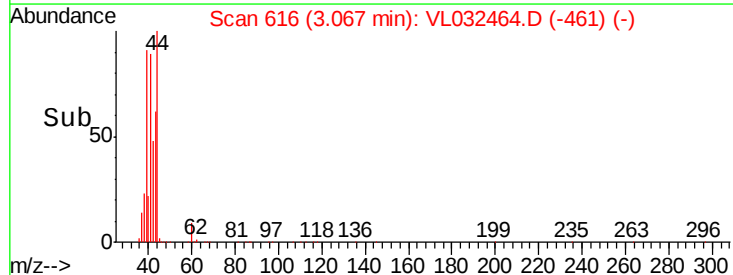
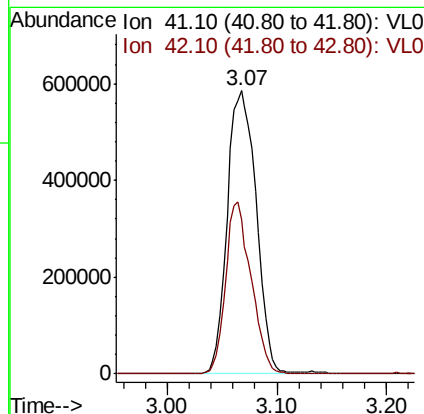
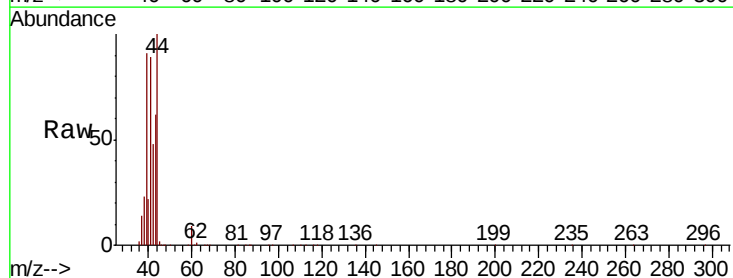
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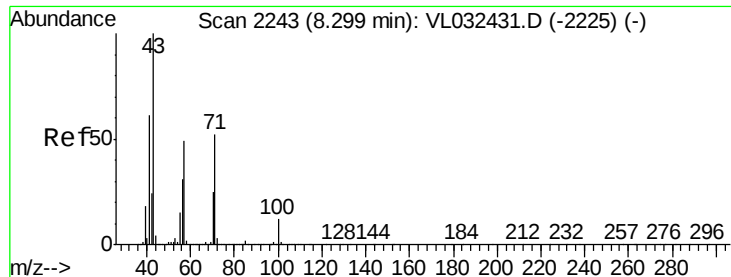


#9

Propene
 Concen: 17.91 ppbv m
 RT: 3.07 min Scan# 616
 Delta R.T. -0.00 min
 Lab File: VL032464.D
 Acq: 5 Sep 2018 19:31

Tgt Ion: 41 Resp: 1077892
 Ion Ratio Lower Upper
 41 100
 42 34.4 56.6 84.8#





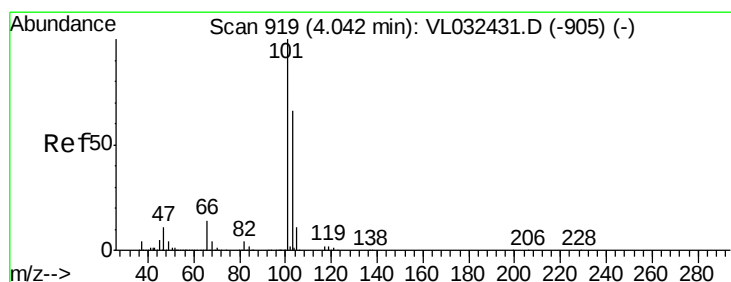
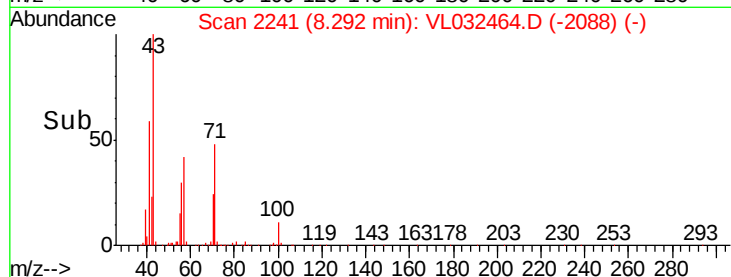
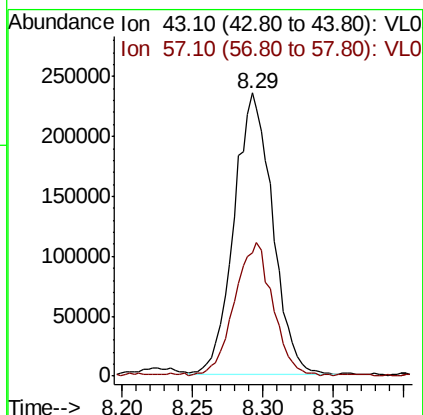
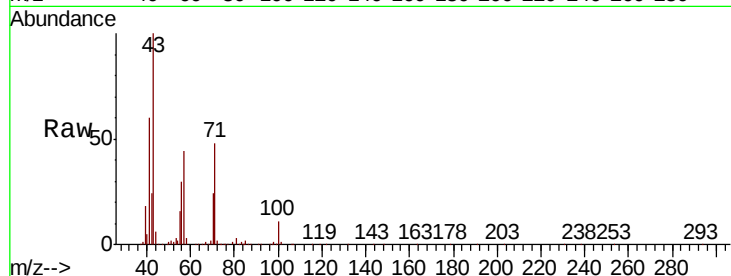
#10
Heptane
Concen: 2.09 ppbv
RT: 8.29 min Scan# 2241
Delta R.T. -0.01 min
Lab File: VL032464.D
Acq: 5 Sep 2018 19:31

Instrument :
MSVOA_L
ClientSampleId :
VP-6

Tot Ion	Ratio	Lower	Upper
43	100		
57	46.5	39.6	59.4

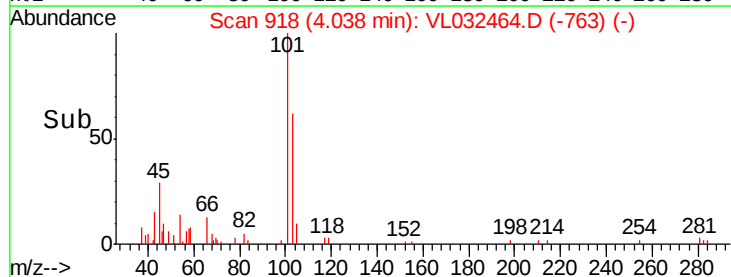
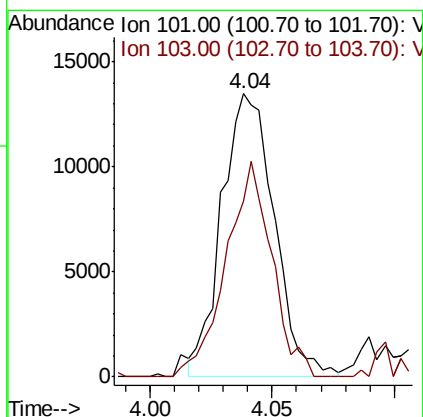
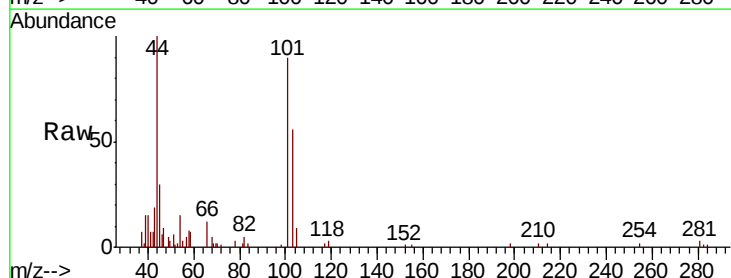
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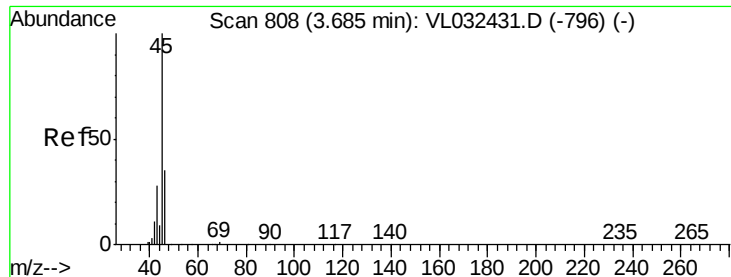
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#11
Trichlorofluoromethane
Concen: 0.11 ppbv
RT: 4.04 min Scan# 918
Delta R.T. -0.00 min
Lab File: VL032464.D
Acq: 5 Sep 2018 19:31

Tgt Ion	Ratio	Lower	Upper
101	100		
103	63.3	52.8	79.2





#13

Ethanol

Concen: 28.24 ppbv

RT: 3.68 min Scan# 807

Delta R.T. -0.00 min

Lab File: VL032464.D

Acq: 5 Sep 2018 19:31

Instrument :

MSVOA_L

ClientSampleId :

VP-6

Tot Ion: 45 Resp: 529724

Ion Ratio Lower Upper

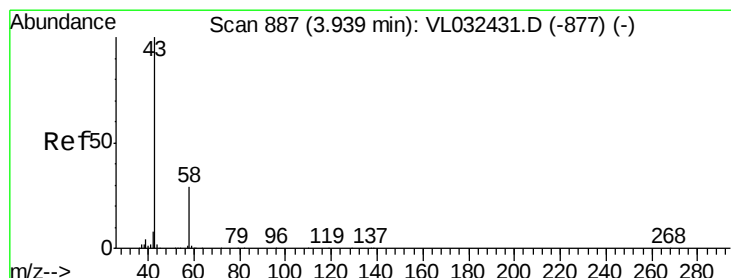
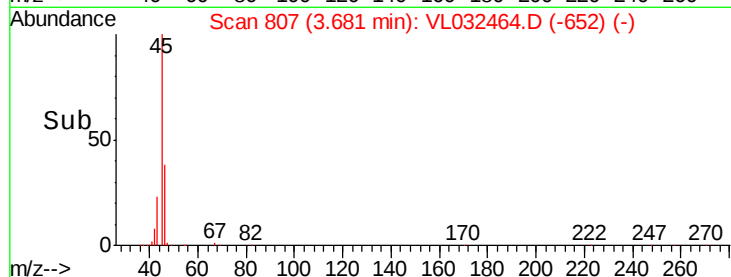
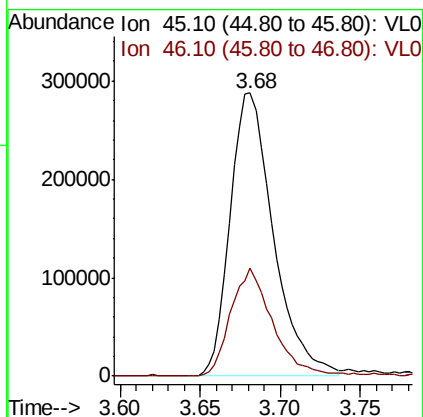
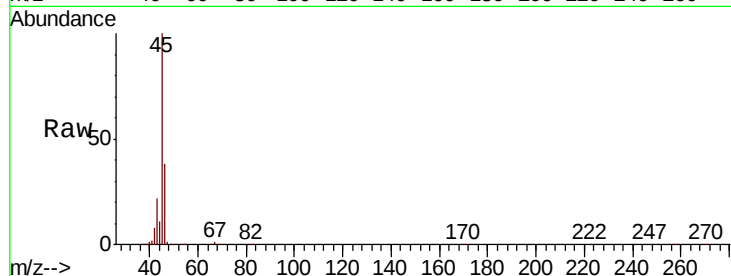
45 100

46 38.1 14.2 56.8

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#15

Acetone

Concen: 8.29 ppbv

RT: 3.93 min Scan# 885

Delta R.T. -0.01 min

Lab File: VL032464.D

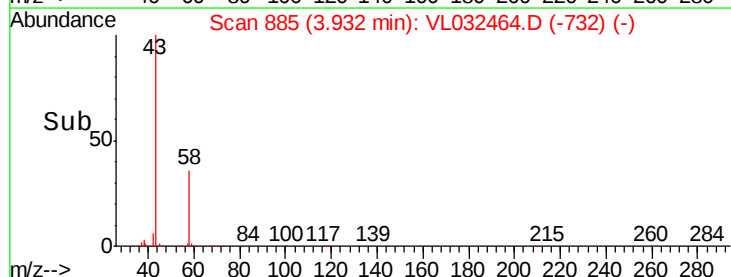
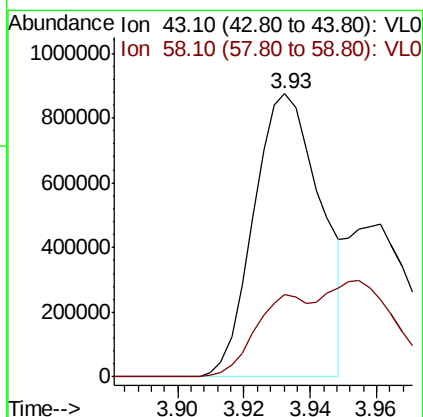
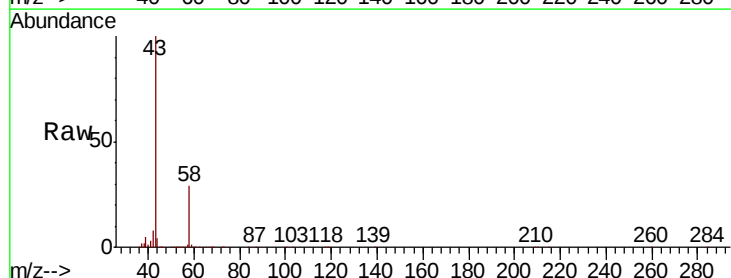
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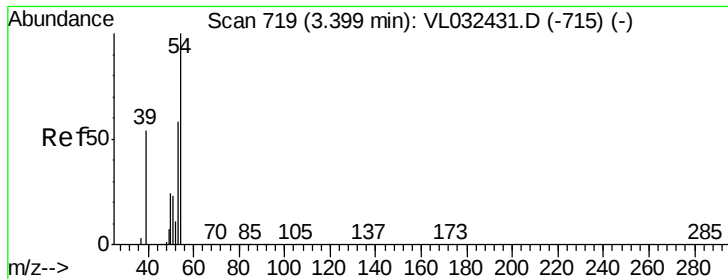
Tgt Ion: 43 Resp: 1230892

Ion Ratio Lower Upper

43 100

58 0.0 22.6 33.8#





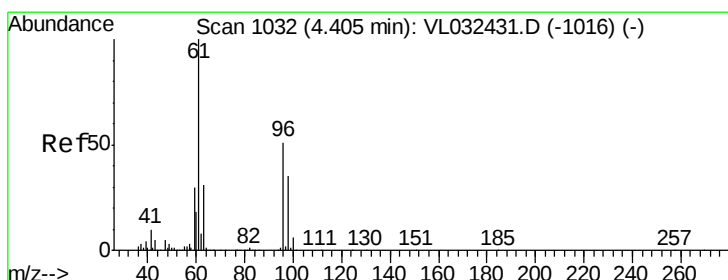
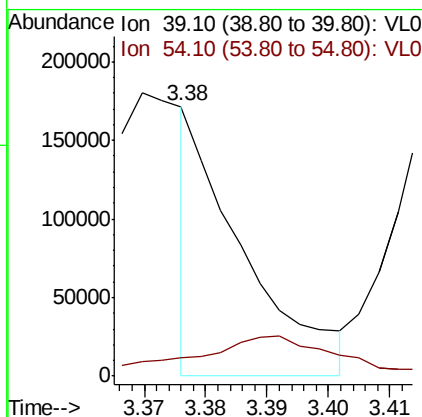
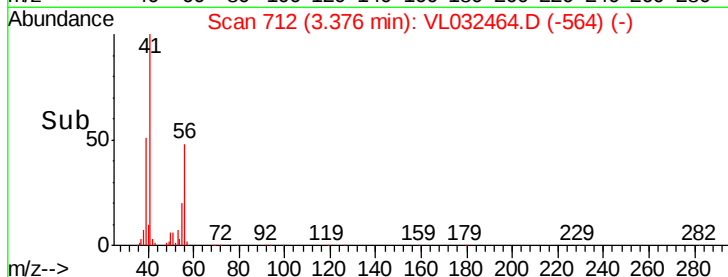
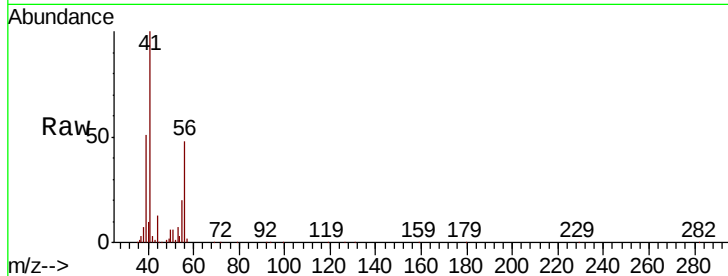
#16
1,3-Butadiene
Concen: 1.43 ppbv m
RT: 3.38 min Scan# 712
Delta R.T. -0.02 min
Lab File: VL032464.D
Acq: 5 Sep 2018 19:31

Instrument :
MSVOA_L
ClientSampleId :
VP-6

Tot Ion	Ratio	Lower	Upper
39	100		
54	49.1	80.8	121.2#

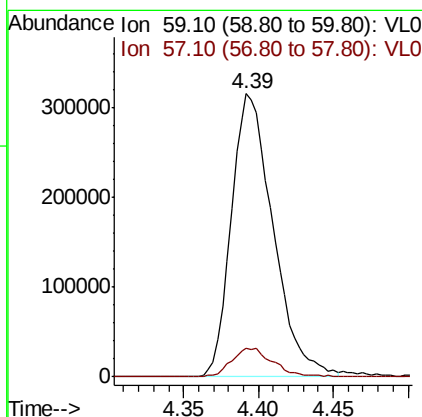
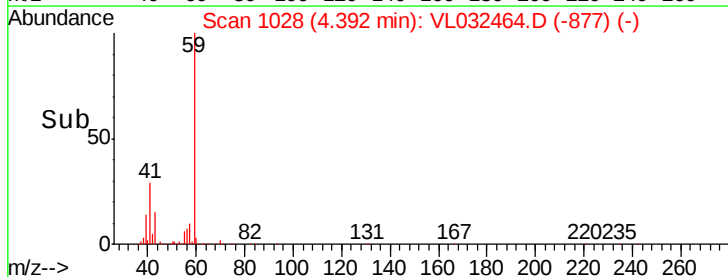
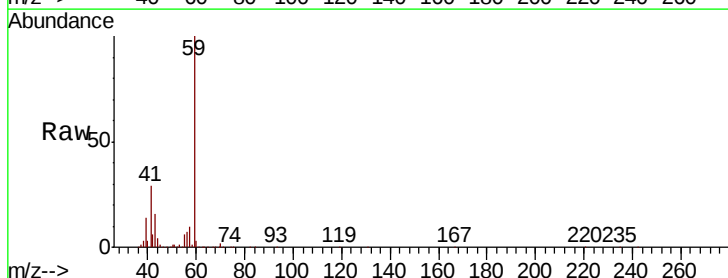
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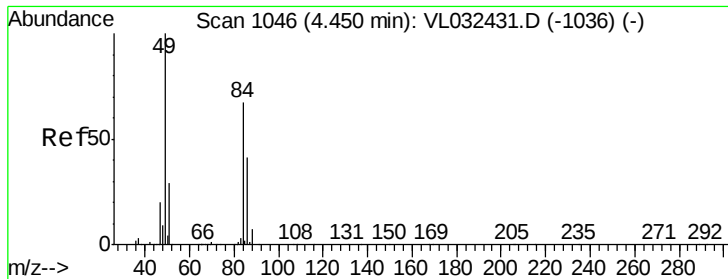
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#17
tert-Butyl alcohol
Concen: 26.83 ppbv
RT: 4.39 min Scan# 1028
Delta R.T. -0.01 min
Lab File: VL032464.D
Acq: 5 Sep 2018 19:31

Tgt Ion	Ratio	Lower	Upper
59	100		
57	10.2	0.0	0.0#





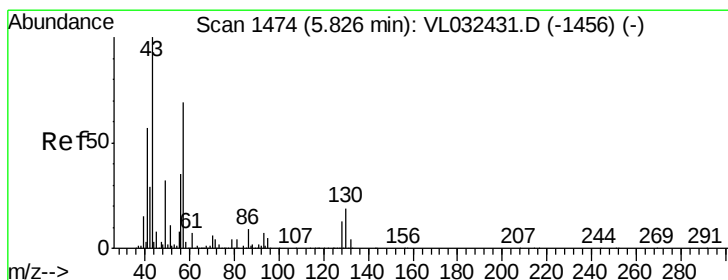
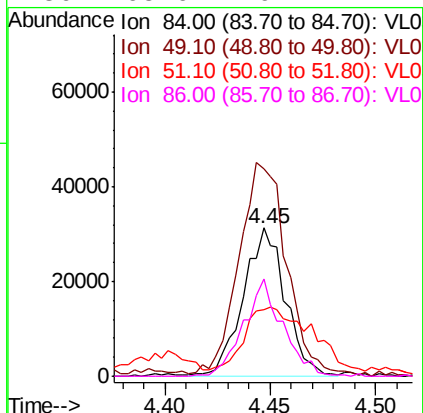
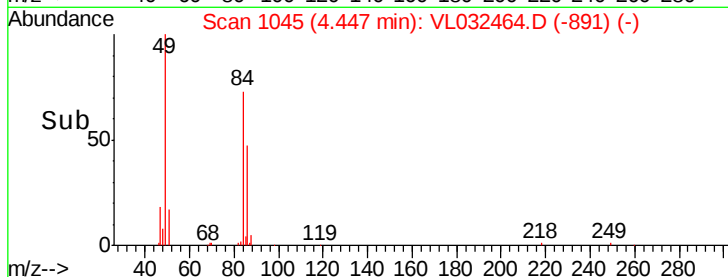
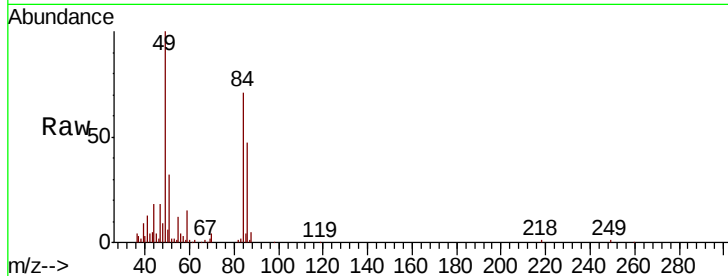
#20
Methvlene Chloride
Concen: 0.77 ppbv
RT: 4.45 min Scan# 1045
Delta R.T. -0.00 min
Lab File: VL032464.D
Acq: 5 Sep 2018 19:31

Instrument :
MSVOA_L
ClientSampleId :
VP-6

Tot Ion	Ratio	Lower	Upper
84	100		
49	138.9	119.1	178.7
51	34.0	35.2	52.8#
86	65.6	49.4	74.2

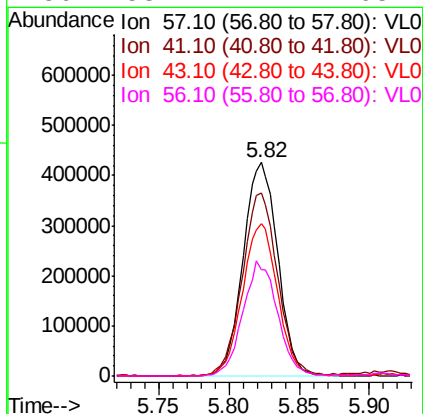
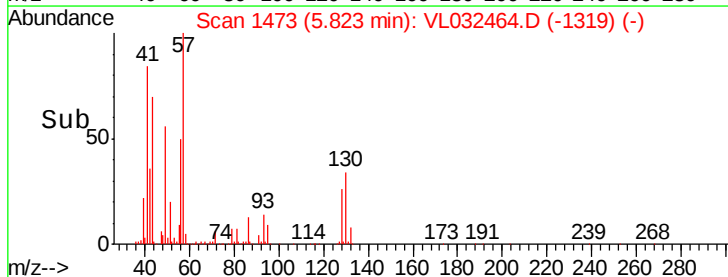
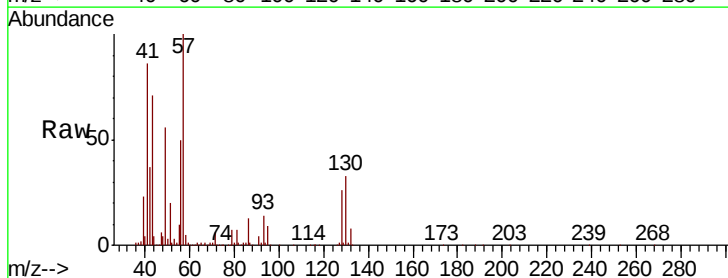
Manual Integrations
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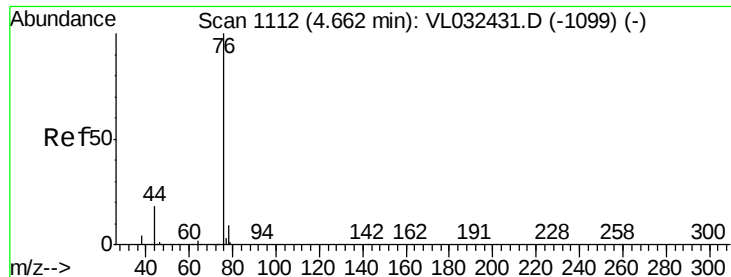
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9/7/2018 10:45:59 AM



#26
Hexane
Concen: 4.67 ppbv
RT: 5.82 min Scan# 1473
Delta R.T. -0.00 min
Lab File: VL032464.D
Acq: 5 Sep 2018 19:31

Tgt Ion	Ratio	Lower	Upper
57	100		
41	87.8	69.0	103.4
43	72.6	172.1	258.1#
56	53.7	42.2	63.2





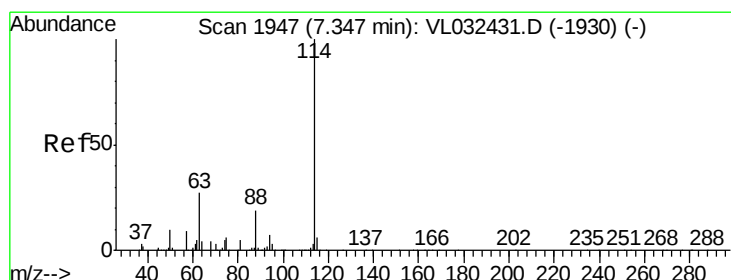
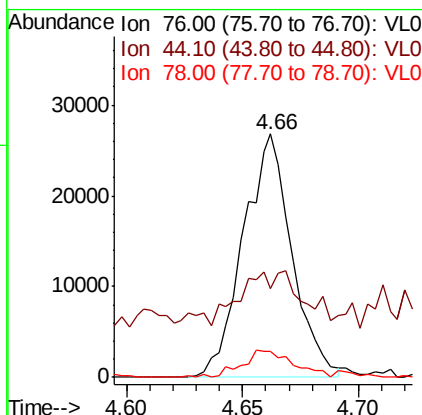
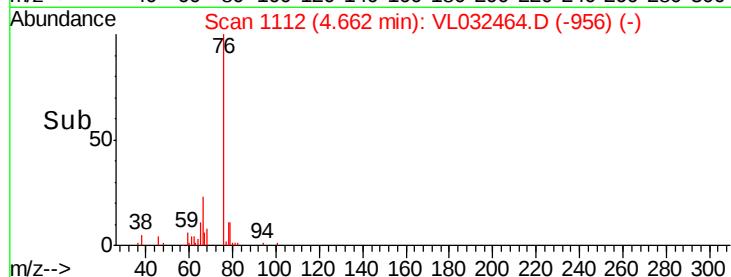
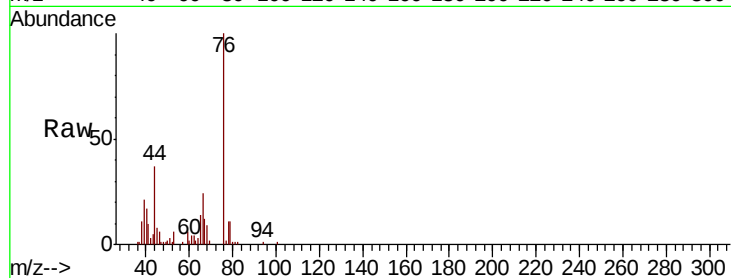
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Carbon Disulfide
Concen: 0.27 ppbv
RT: 4.66 min Scan# 1112
Delta R.T. -0.00 min
Lab File: VL032464.D
Acq: 5 Sep 2018 19:31

Instrument :
MSVOA_L
ClientSampleId :
VP-6

Tot Ion	Ratio	Lower	Upper
76	100		
44	27.2	14.0	21.0#
78	12.9	7.5	11.3#

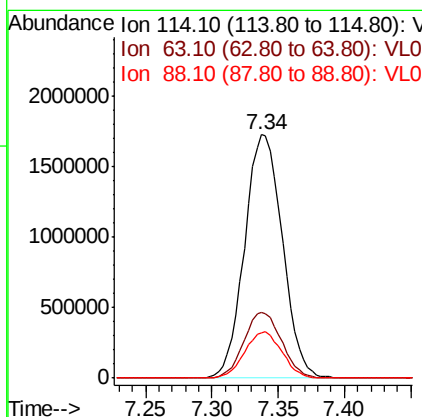
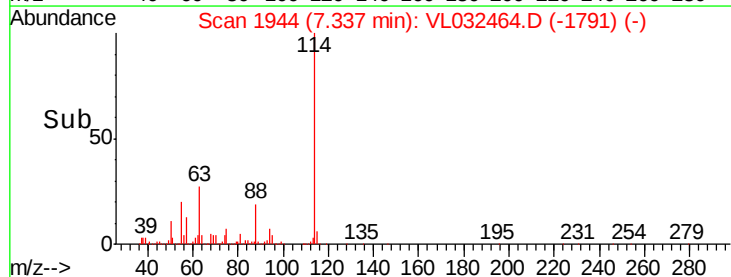
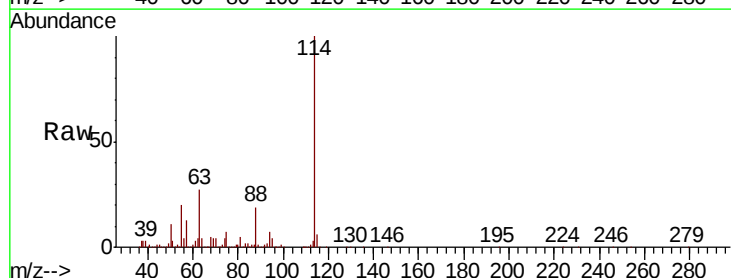
Manual Integrations
APPROVED

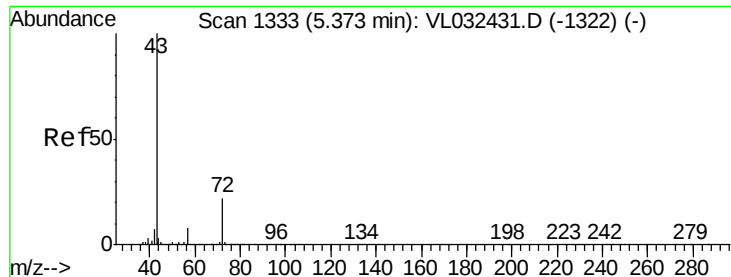
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9/7/2018 10:45:59 AM



#33
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 7.34 min Scan# 1944
Delta R.T. -0.01 min
Lab File: VL032464.D
Acq: 5 Sep 2018 19:31

Tgt Ion	Ratio	Lower	Upper
114	100		
63	27.0	22.2	33.4
88	18.9	15.0	22.4





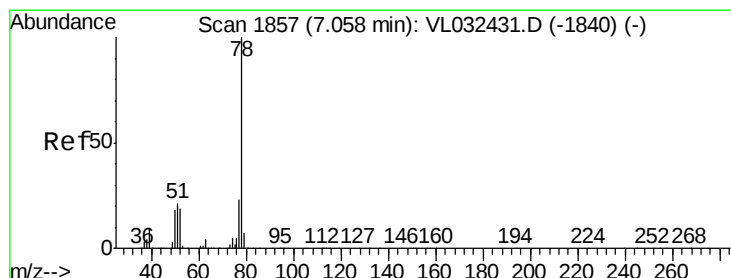
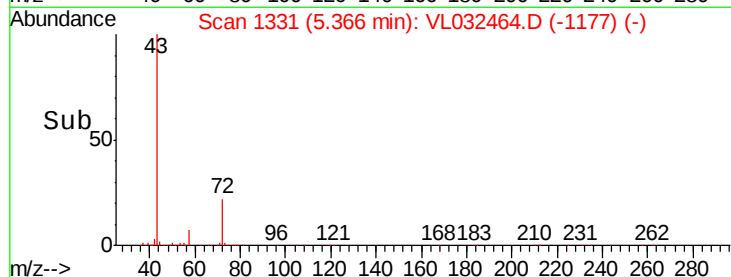
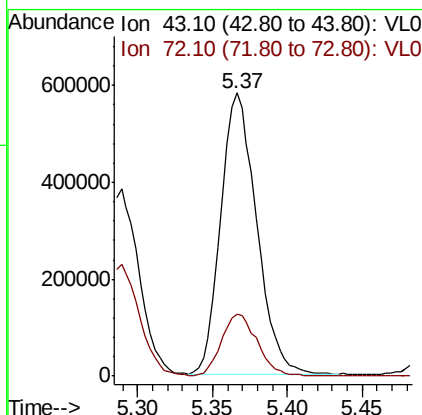
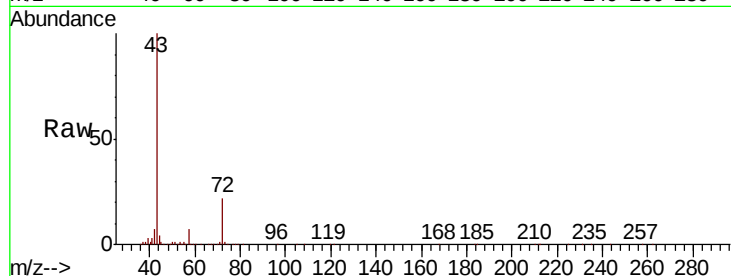
#34
2-Butanone
Concen: 4.26 ppbv
RT: 5.37 min Scan# 1331
Delta R.T. -0.01 min
Lab File: VL032464.D
Acq: 5 Sep 2018 19:31

Instrument :
MSVOA_L
ClientSampled :
VP-6

Tot Ion: 43 Resp: 972683
Ion Ratio Lower Upper
43 100
72 22.3 17.8 26.6

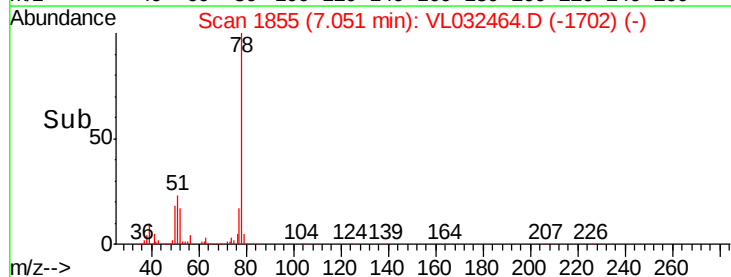
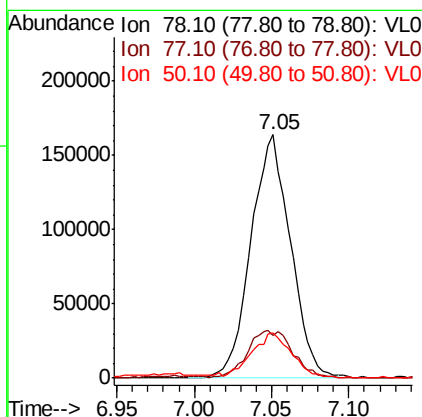
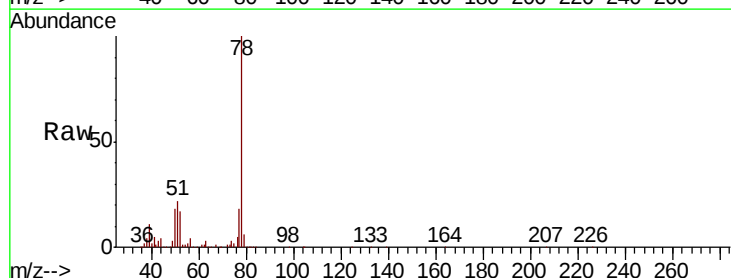
Manual Integrations
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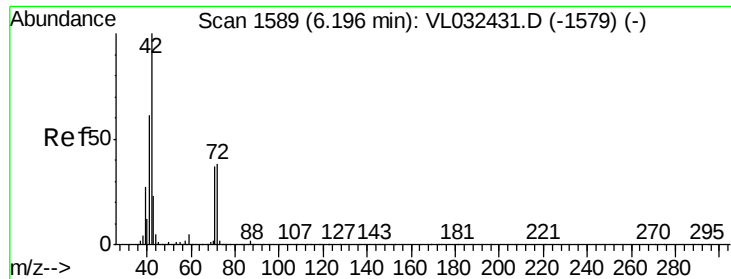
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9/7/2018 10:45:59 AM



#36
Benzene
Concen: 1.00 ppbv
RT: 7.05 min Scan# 1855
Delta R.T. -0.01 min
Lab File: VL032464.D
Acq: 5 Sep 2018 19:31

Tgt Ion: 78 Resp: 291983
Ion Ratio Lower Upper
78 100
77 16.9 18.4 27.6#
50 18.0 14.4 21.6





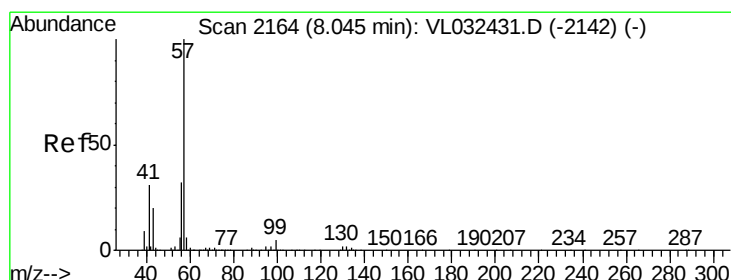
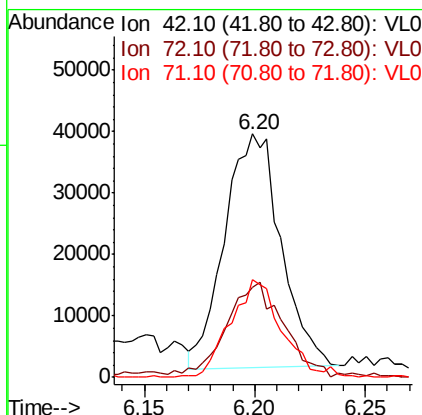
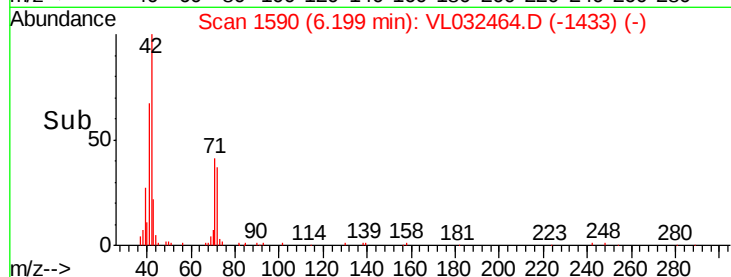
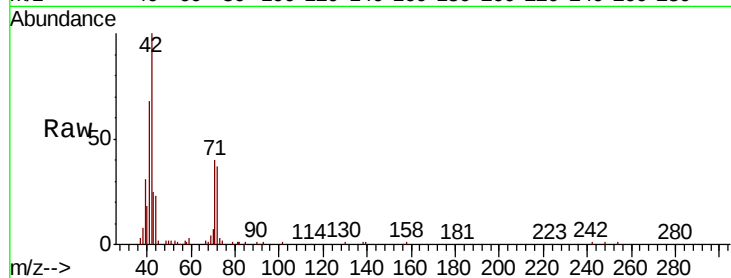
#41
Tetrahydrofuran
Concen: 0.54 ppbv
RT: 6.20 min Scan# 1590
Delta R.T. 0.00 min
Lab File: VL032464.D
Acq: 5 Sep 2018 19:31

Instrument :
MSVOA_L
ClientSampled :
VP-6

Tot Ion	Ratio	Lower	Upper
42	100		
72	44.8	29.5	44.3#
71	38.4	28.3	42.5

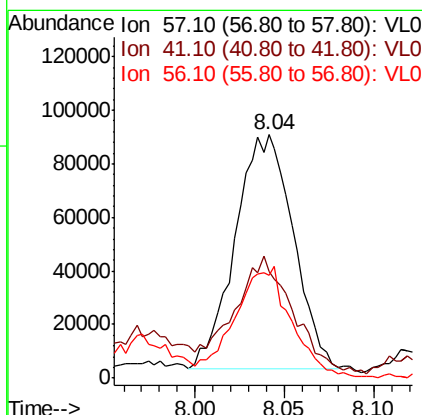
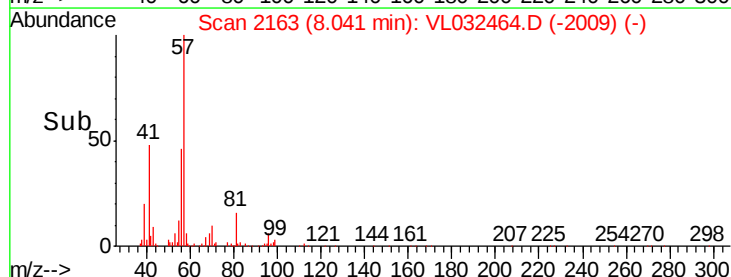
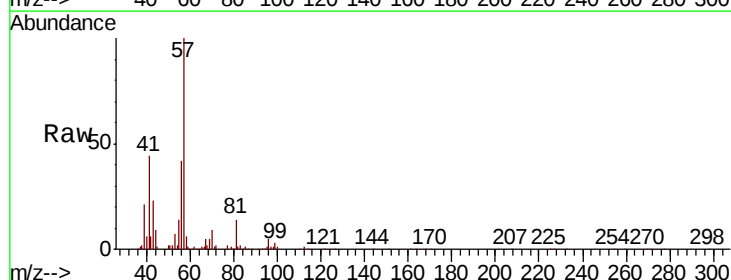
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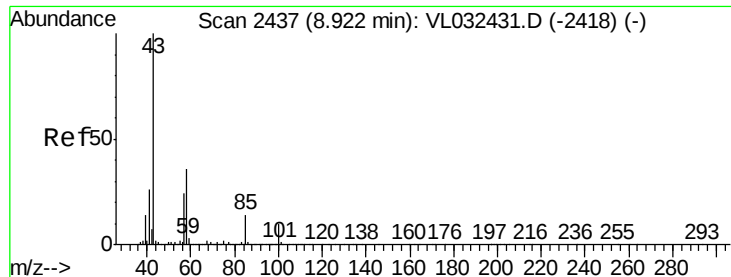
MMDadoda
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#44
2,2,4-Trimethylpentane
Concen: 0.35 ppbv
RT: 8.04 min Scan# 2163
Delta R.T. -0.00 min
Lab File: VL032464.D
Acq: 5 Sep 2018 19:31

Tgt Ion	Ratio	Lower	Upper
57	100		
41	0.0	24.4	36.6#
56	46.5	25.7	38.5#





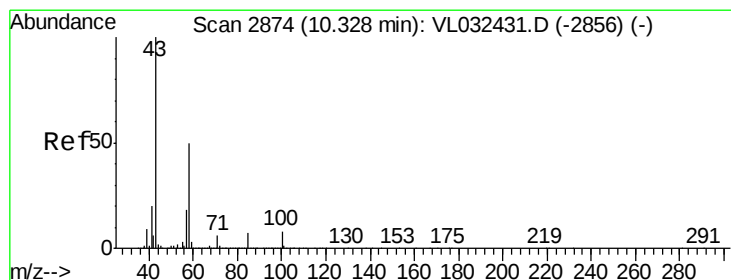
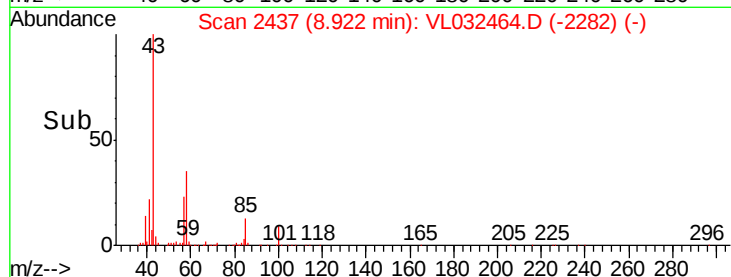
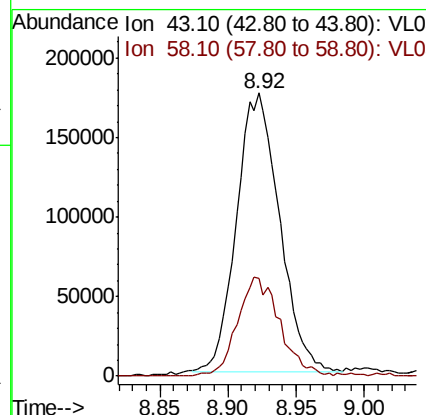
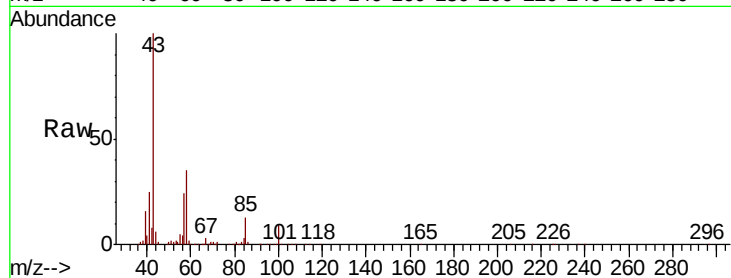
#50
4-Methyl-2-Pentanone
Concen: 1.11 ppbv
RT: 8.92 min Scan# 2437
Delta R.T. -0.00 min
Lab File: VL032464.D
Acq: 5 Sep 2018 19:31

Instrument :
MSVOA_L
ClientSampled :
VP-6

Tot Ion	Ratio	Lower	Upper
43	100		
58	35.2	29.0	43.4

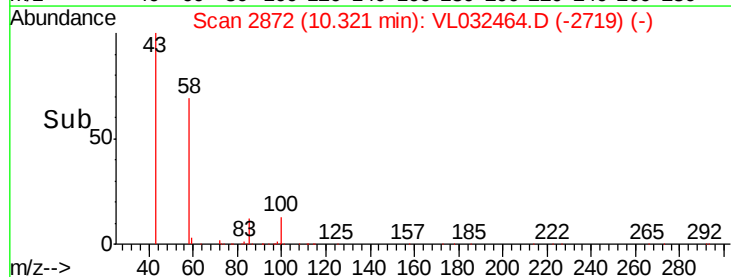
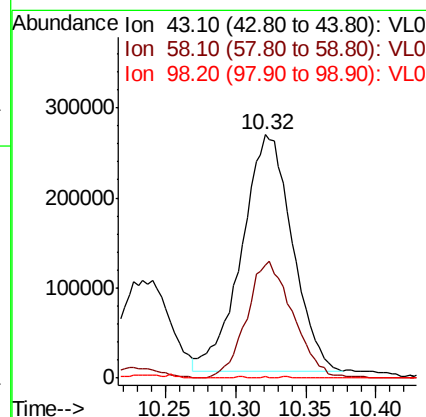
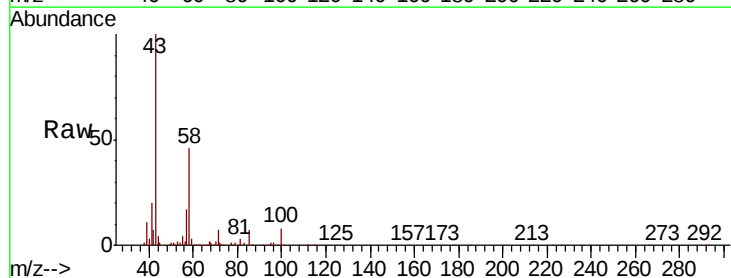
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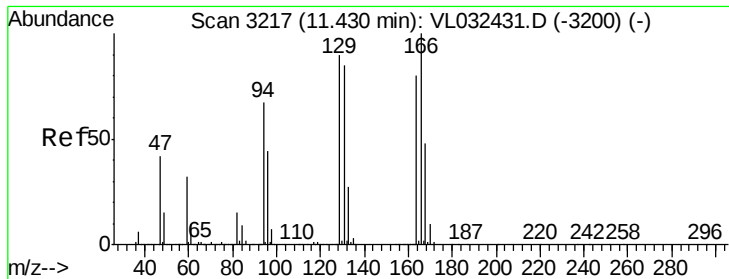
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#51
2-Hexanone
Concen: 2.97 ppbv
RT: 10.32 min Scan# 2872
Delta R.T. -0.01 min
Lab File: VL032464.D
Acq: 5 Sep 2018 19:31

Tgt Ion	Ratio	Lower	Upper
43	100		
58	44.8	39.2	58.8
98	0.3	0.4	0.6#





#52

Tetrachloroethene

Concen: 0.59 ppbv m

RT: 11.43 min Scan# 3217

Delta R.T. -0.00 min

Lab File: VL032464.D

Acq: 5 Sep 2018 19:31

Instrument :

MSVOA_L

ClientSampled :

VP-6

Tot Ion:164 Resp: 53686

Ion Ratio Lower Upper

164 100

166 113.1 100.6 150.8

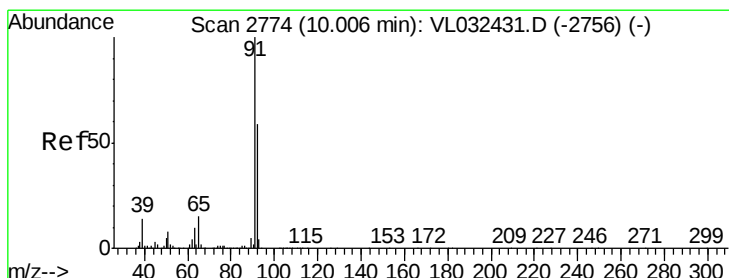
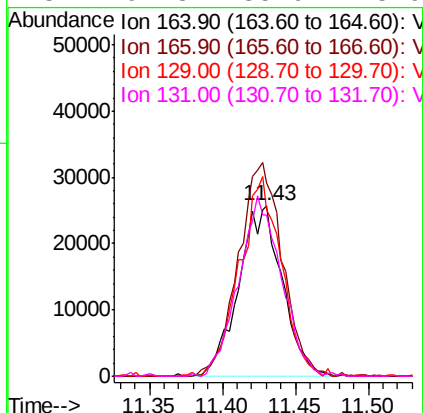
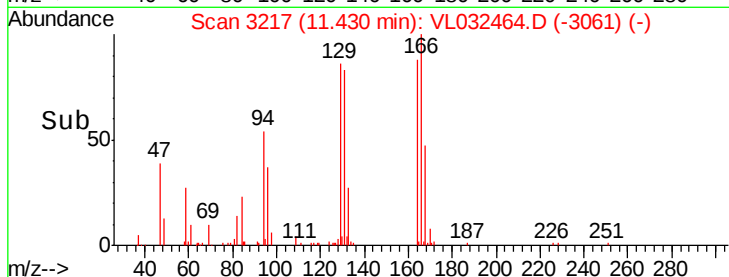
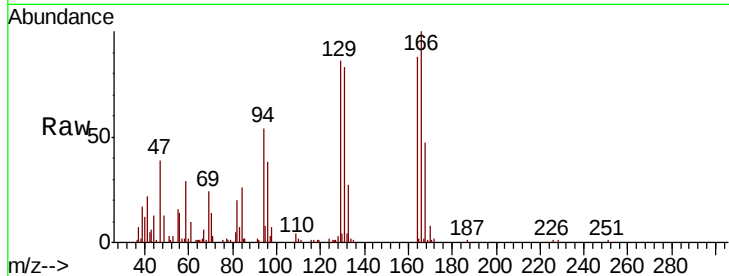
129 97.6 89.9 134.9

131 94.3 85.9 128.9

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9/7/2018 10:45:59 AM



#53

Toluene

Concen: 2.32 ppbv

RT: 10.00 min Scan# 2771

Delta R.T. -0.01 min

Lab File: VL032464.D

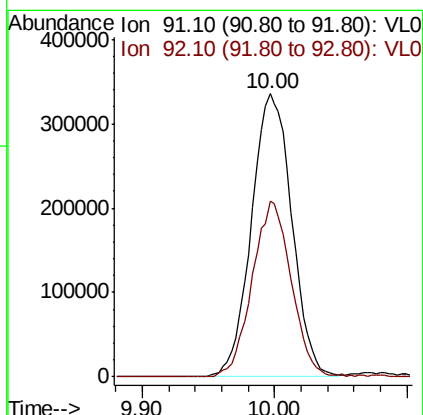
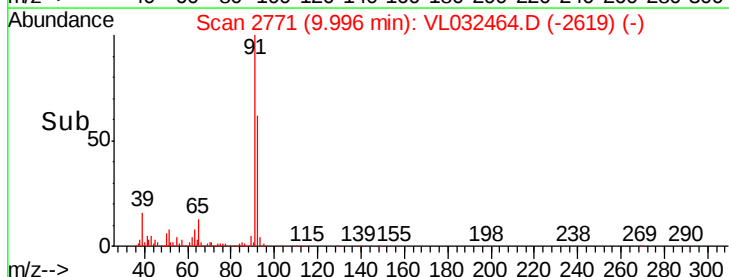
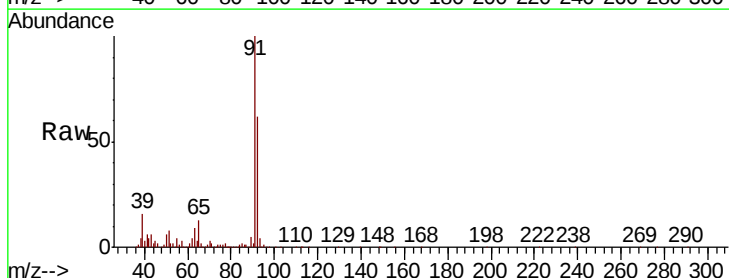
Acq: 5 Sep 2018 19:31

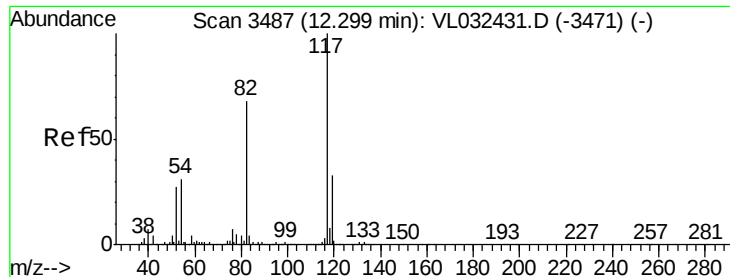
Tgt Ion: 91 Resp: 710196

Ion Ratio Lower Upper

91 100

92 60.1 48.1 72.1





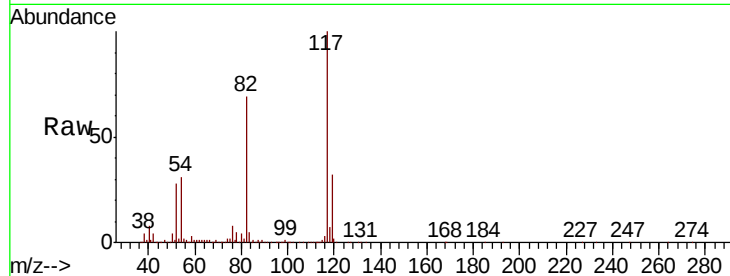
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.30 min Scan# 3487
Delta R.T. -0.00 min
Lab File: VL032464.D
Acq: 5 Sep 2018 19:31

Instrument :
MSVOA_L
ClientSampled :
VP-6

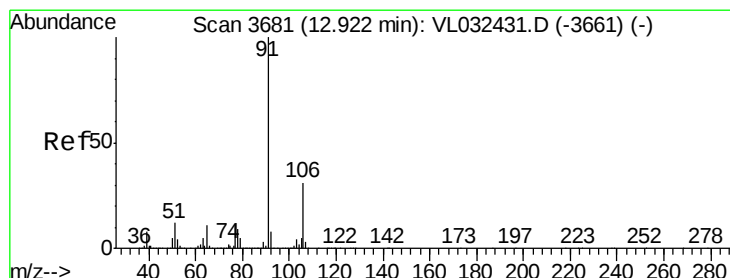
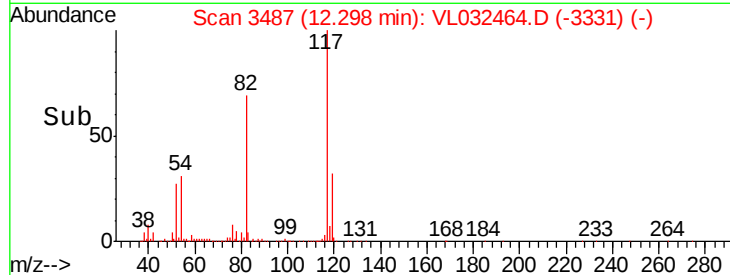
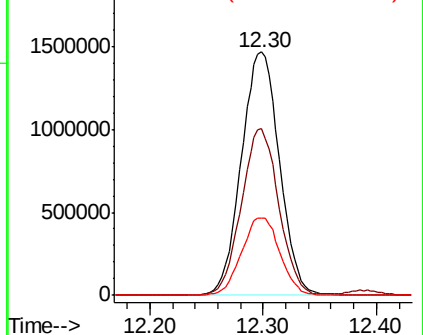
Tot Ion	Ratio	Lower	Upper
117	100		
82	67.2	53.0	79.6
119	32.2	45.9	68.9#

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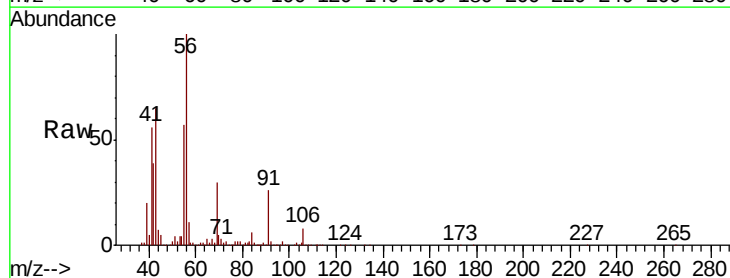


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

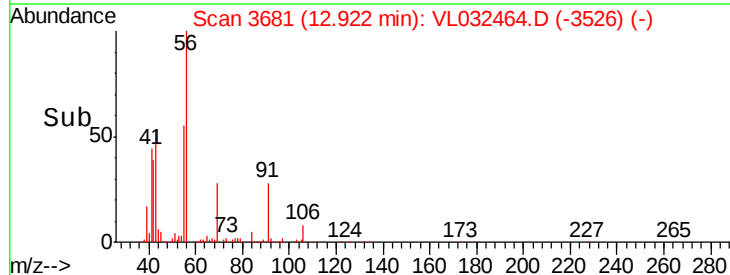
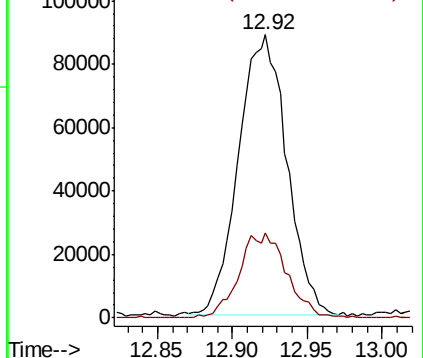


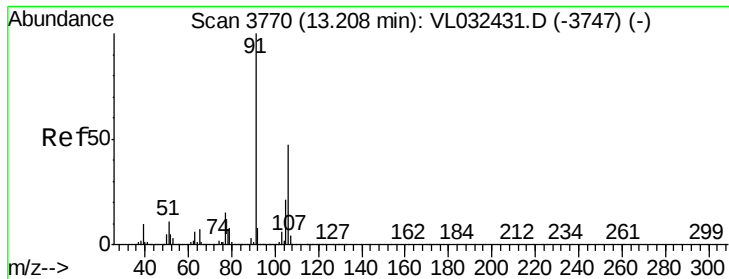
#58
Ethyl Benzene
Concen: 0.48 ppbv
RT: 12.92 min Scan# 3681
Delta R.T. -0.00 min
Lab File: VL032464.D
Acq: 5 Sep 2018 19:31

Tgt Ion	Ratio	Lower	Upper
91	100		
106	30.3	24.8	37.2



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V





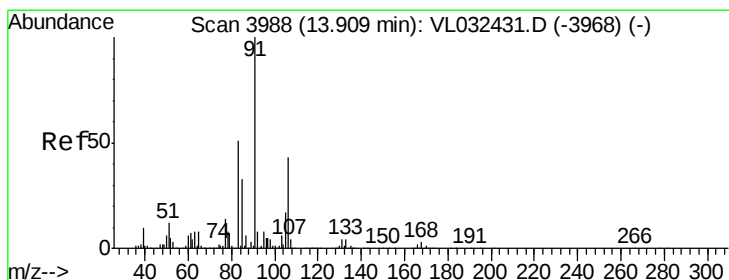
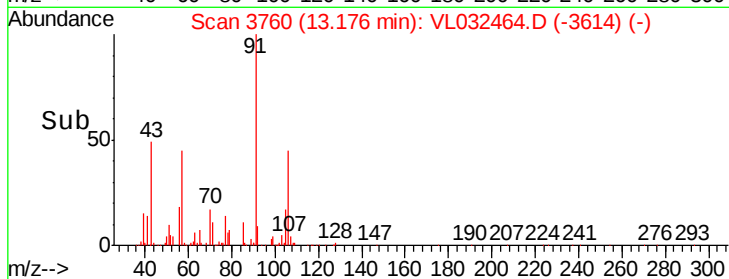
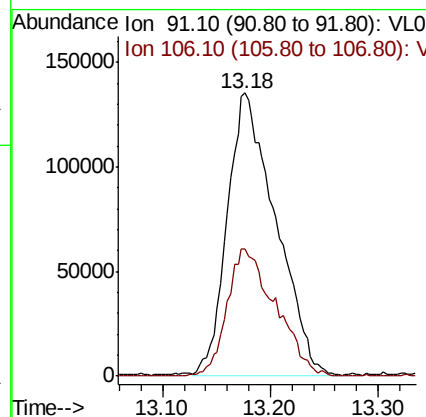
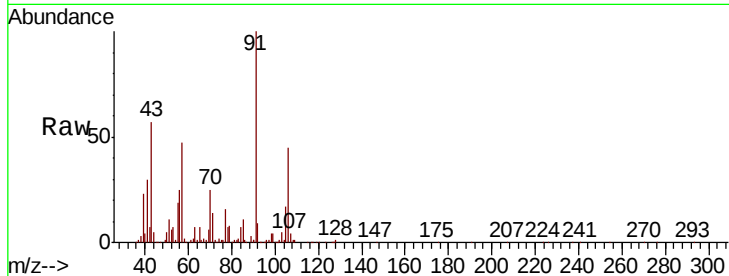
#59
m/p-Xylene
Concen: 1.15 ppbv
RT: 13.18 min Scan# 3760
Delta R.T. -0.03 min
Lab File: VL032464.D
Acq: 5 Sep 2018 19:31

Instrument :
MSVOA_L
ClientSampled :
VP-6

Tot Ion: 91 Resp: 422286
Ion Ratio Lower Upper
91 100
106 45.3 36.6 55.0

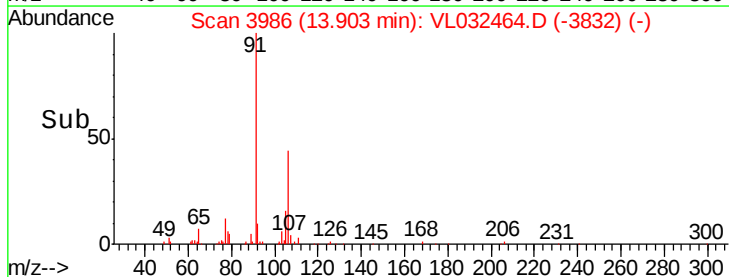
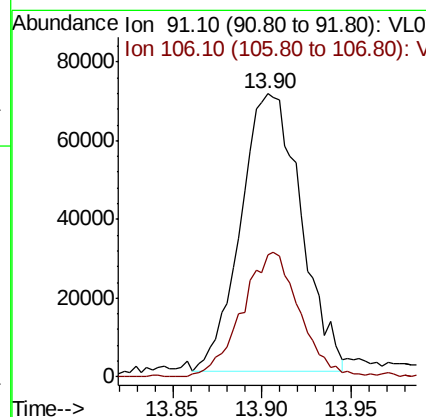
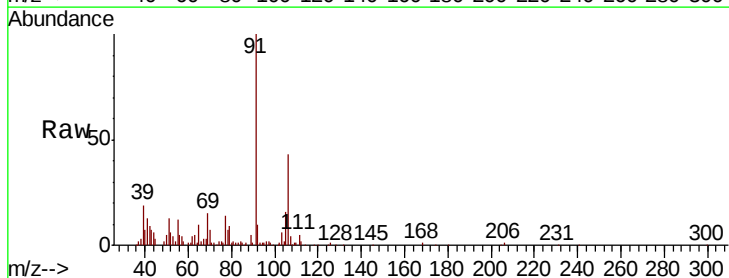
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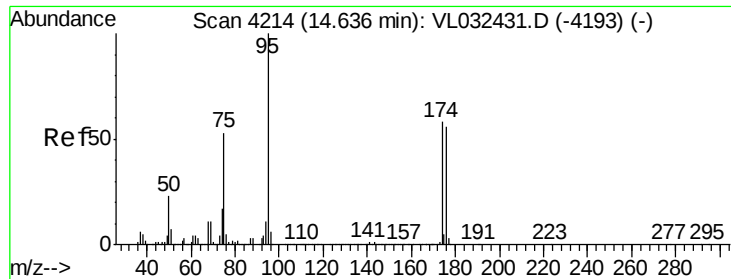
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#60
o-Xylene
Concen: 0.46 ppbv
RT: 13.90 min Scan# 3986
Delta R.T. -0.01 min
Lab File: VL032464.D
Acq: 5 Sep 2018 19:31

Tgt Ion: 91 Resp: 166637
Ion Ratio Lower Upper
91 100
106 43.3 21.9 65.7





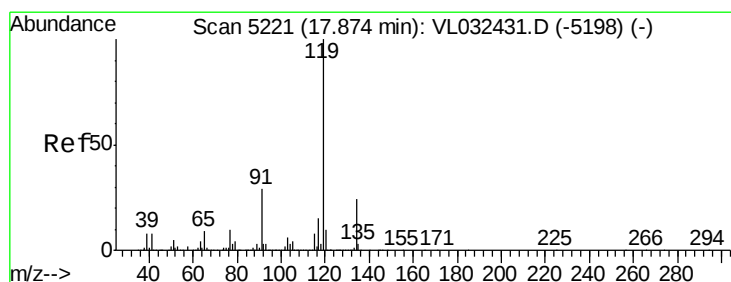
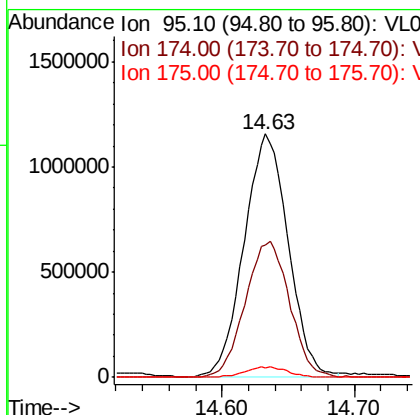
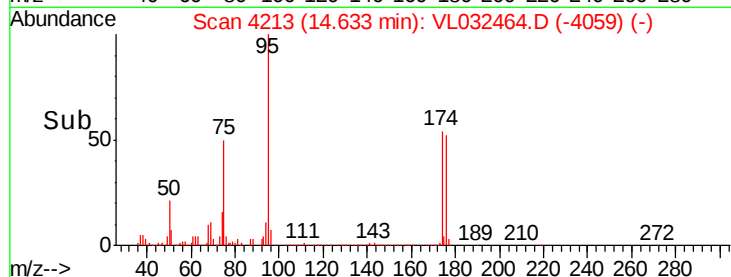
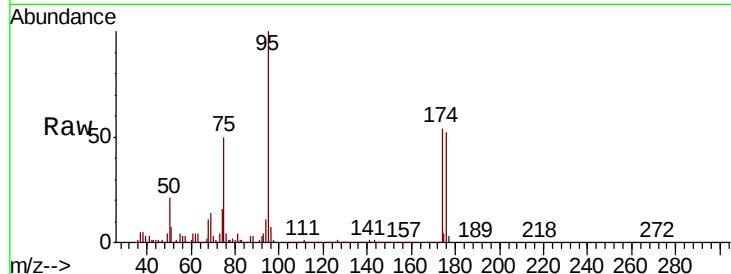
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.47 ppbv
 RT: 14.63 min Scan# 4213
 Delta R.T. -0.00 min
 Lab File: VL032464.D
 Acq: 5 Sep 2018 19:31

Instrument :
 MSVOA_L
 ClientSampled :
 VP-6

Tot Ion	Ratio	Lower	Upper
95	100		
174	56.8	46.3	69.5
175	4.2	3.4	5.0

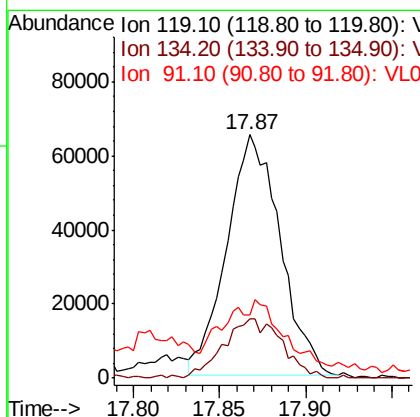
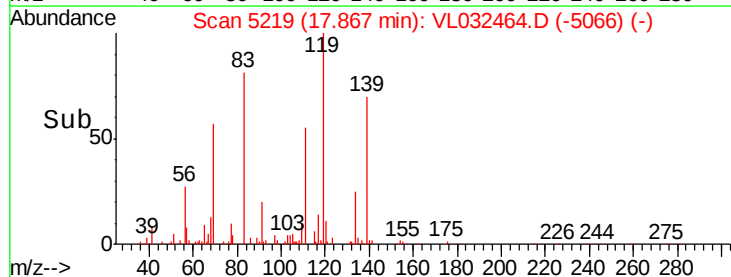
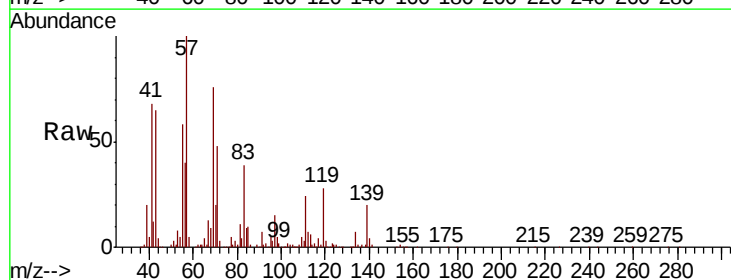
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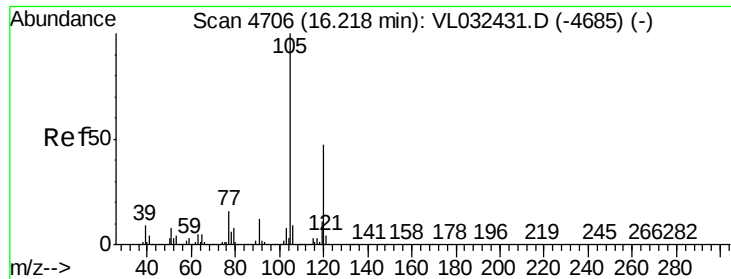
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#69
 p-Isopropyltoluene
 Concen: 0.28 ppbv
 RT: 17.87 min Scan# 5219
 Delta R.T. -0.01 min
 Lab File: VL032464.D
 Acq: 5 Sep 2018 19:31

Tgt Ion	Ratio	Lower	Upper
119	100		
134	27.6	20.4	30.6
91	36.6	23.4	35.2





#73

1,3,5-Trimethylbenzene

Concen: 0.27 ppbv

RT: 16.21 min Scan# 4704

Delta R.T. -0.01 min

Lab File: VL032464.D

Acq: 5 Sep 2018 19:31

Instrument :

MSVOA_L

ClientSampled :

VP-6

Tot Ion:105 Resp: 106245

Ion Ratio Lower Upper

105 100

120 38.5

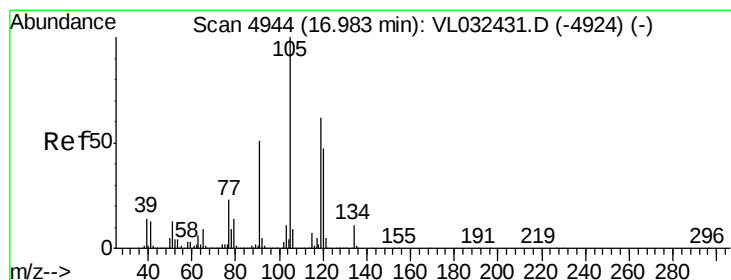
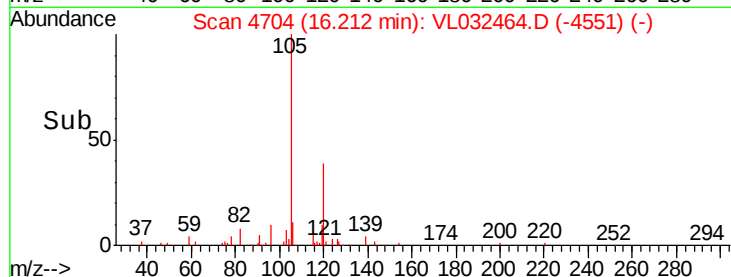
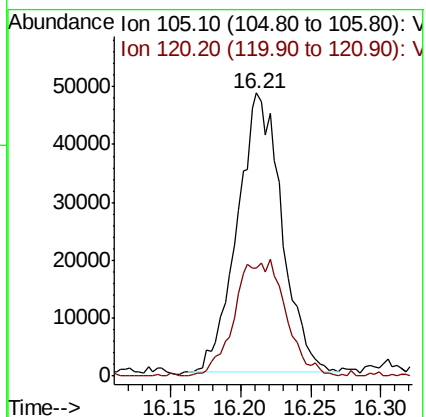
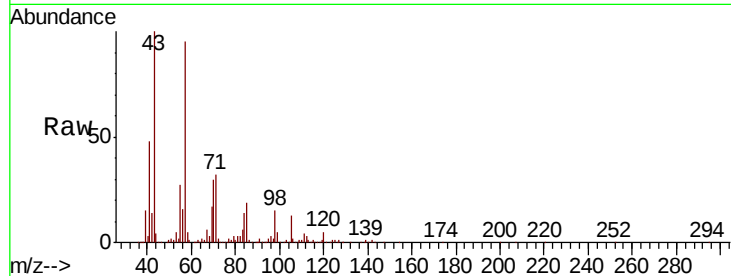
37.9

56.9

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#74

1,2,4-Trimethylbenzene

Concen: 0.77 ppbv m

RT: 16.98 min Scan# 4942

Delta R.T. -0.01 min

Lab File: VL032464.D

Acq: 5 Sep 2018 19:31

Tgt Ion:105 Resp: 330544

Ion Ratio Lower Upper

105 100

120 36.5

37.8

56.8#

91 15.9

41.4

62.0#

77 23.0

18.6

28.0

