

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL120418\
 Data File : VL032878.D
 Acq On : 4 Dec 2018 16:04
 Operator : SY/AP
 Sample : J6175-01DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MMSV-06DL

Manual Integrations
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 12/10/2018 12:59:53 PM

Quant Time: Dec 05 14:59:15 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Nov 14 2018
 QLast Update : Wed Nov 14 07:00:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1535704	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3852668	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3948321	10.00	ppbv	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.59	95	2865128	9.70	ppbv	0.00	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.00%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.04	41	469018	9.626	ppbv	94
10) Heptane	8.25	43	624584	3.358	ppbv	98
13) Ethanol	3.66	45	49547	3.105	ppbv	93
15) Acetone	3.91	43	819979m	5.847	ppbv	
26) Hexane	5.79	57	486974	3.347	ppbv #	42
27) Carbon Disulfide	4.63	76	963310	5.221	ppbv	98
30) Cyclohexane	7.26	84	161642	1.270	ppbv #	82
34) 2-Butanone	5.33	43	1856247	9.289	ppbv	99
36) Benzene	7.01	78	596468	1.944	ppbv	97
41) Tetrahydrofuran	6.17	42	218799	1.909	ppbv	99
44) 2,2,4-Trimethylpentane	8.00	57	117234	0.229	ppbv #	5
51) 2-Hexanone	10.30	43	151978m	0.756	ppbv	
53) Toluene	9.96	91	588777	1.840	ppbv	98
58) Ethyl Benzene	12.87	91	188873	0.397	ppbv	96
59) m/p-Xylene	13.14	91	326462m	0.772	ppbv	
60) o-Xylene	13.86	91	154190m	0.363	ppbv	

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

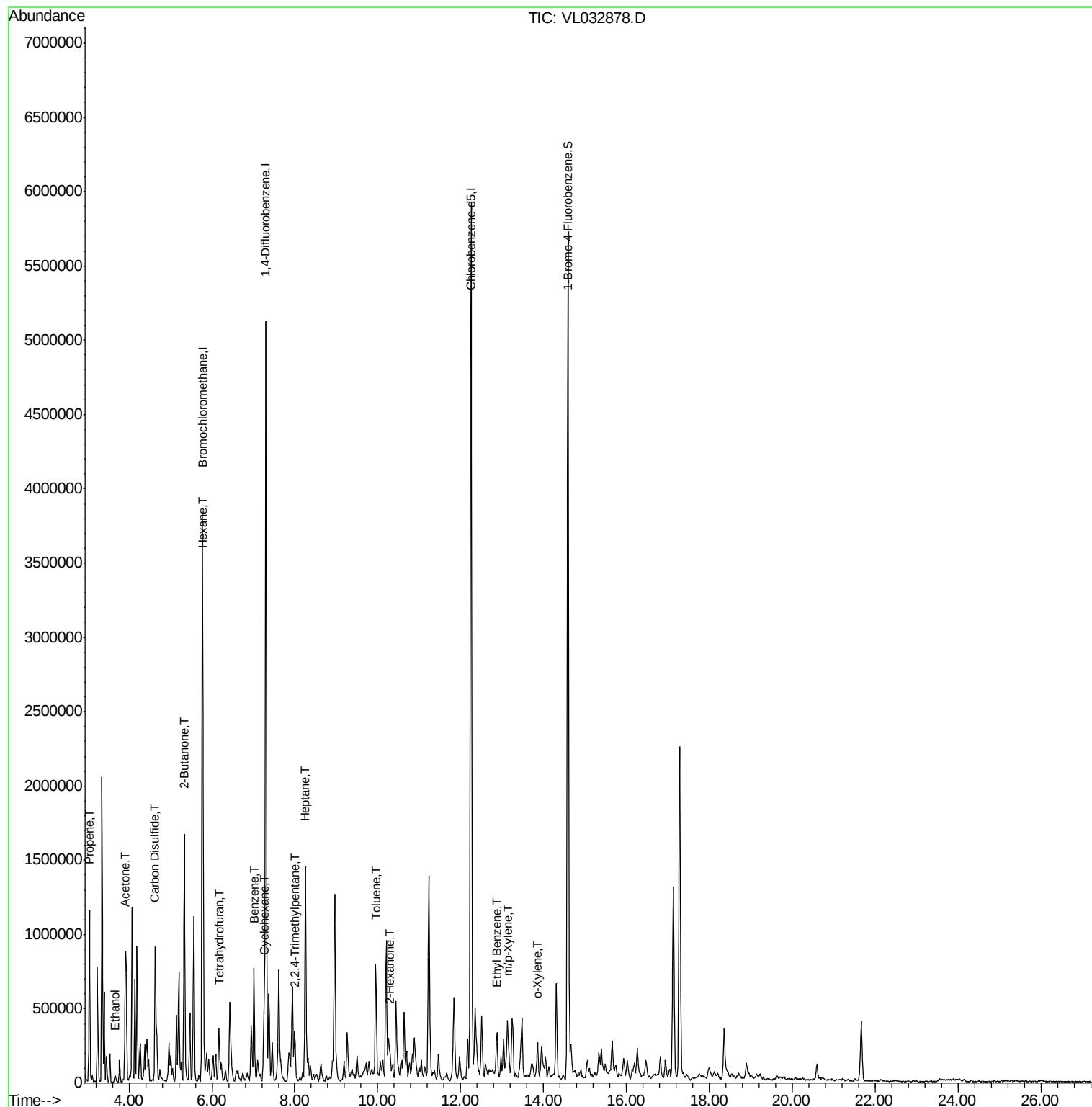
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL120418\
Data File : VL032878.D
Acq On : 4 Dec 2018 16:04
Operator : SY/AP
Sample : J6175-01DL 10X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

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Manual Integrations
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Quant Time: Dec 05 14:59:15 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL111418AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Nov
QLast Update : Wed Nov 14 07:00:23 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 881

Delta R.T. -0.00 min

Lab File: VL032878.D

Acq: 4 Dec 2018 16:04

Instrument :

MSVOA_L

ClientSampleId :

MMSV-06DL

Tot Ion: 49 Resp: 1535704

Ion Ratio Lower Upper

49 100

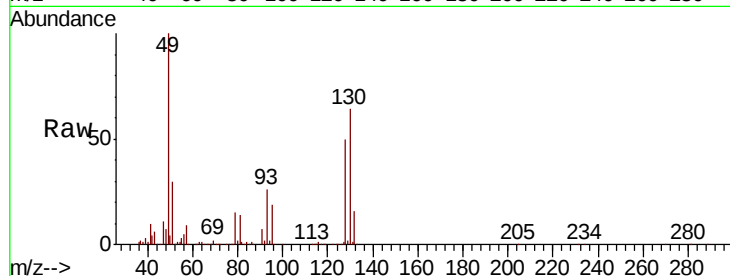
128 52.0 24.9 74.6

130 66.7 31.4 94.2

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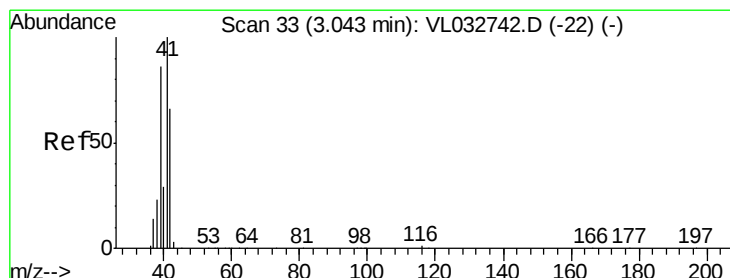
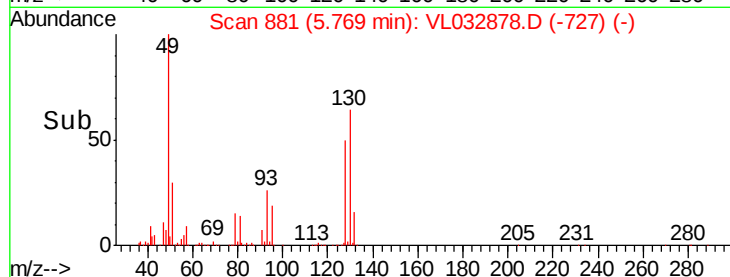
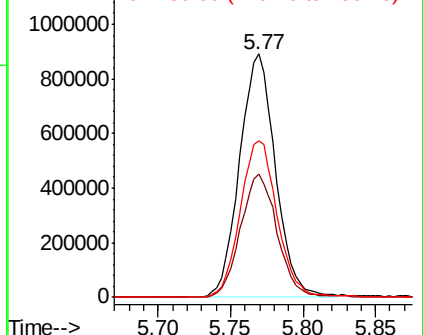
12/10/2018 12:59:53 PM



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



#9

Propene

Concen: 9.626 ppbv

RT: 3.04 min Scan# 33

Delta R.T. -0.00 min

Lab File: VL032878.D

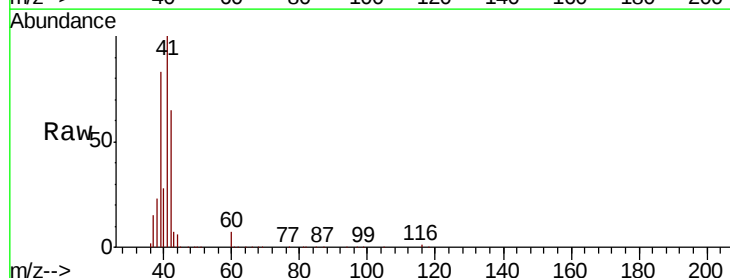
Acq: 4 Dec 2018 16:04

Tgt Ion: 41 Resp: 469018

Ion Ratio Lower Upper

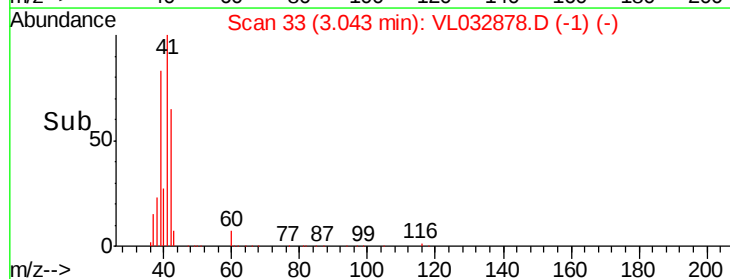
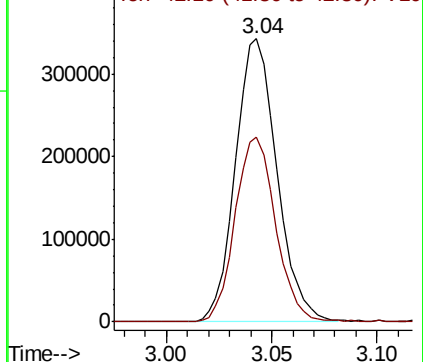
41 100

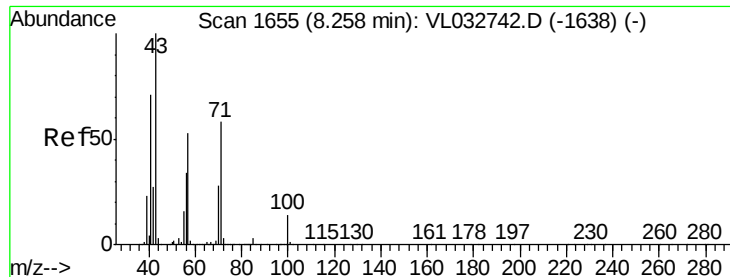
42 64.1 55.0 82.6



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





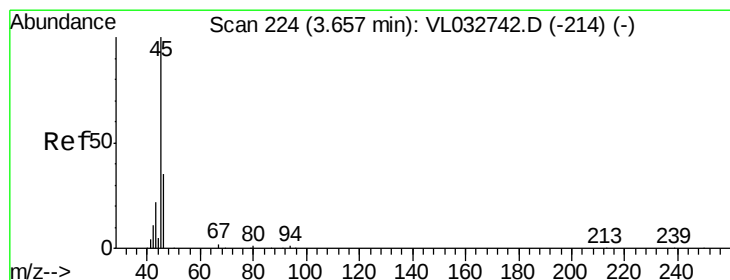
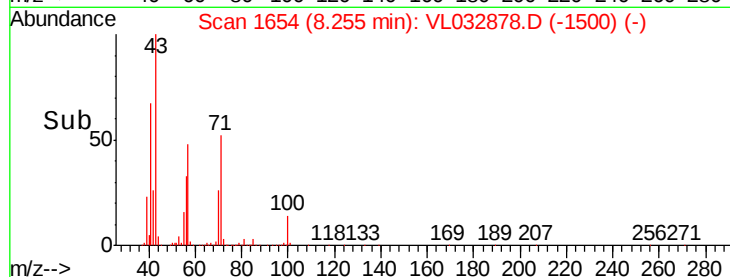
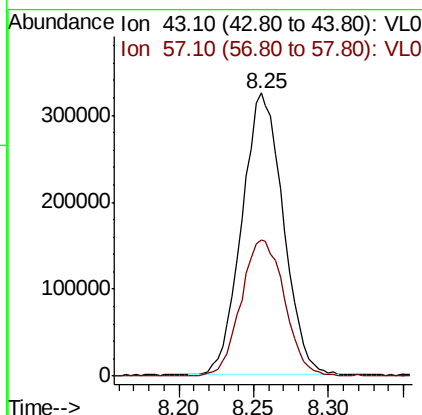
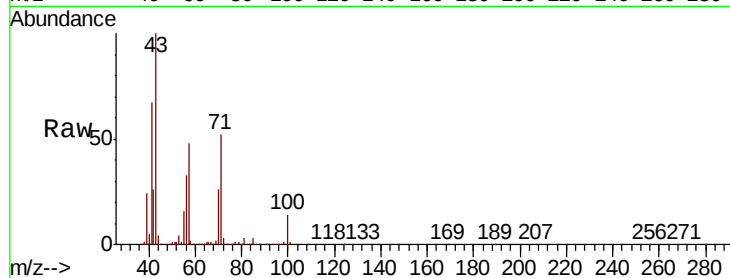
#10
Heptane
Concen: 3.358 ppbv
RT: 8.25 min Scan# 1654
Delta R.T. -0.00 min
Lab File: VL032878.D
Acq: 4 Dec 2018 16:04

Instrument :
MSVOA_L
ClientSampleId :
MMSV-06DL

Tot Ion: 43 Resp: 624584
Ion Ratio Lower Upper
43 100
57 50.9 41.8 62.8

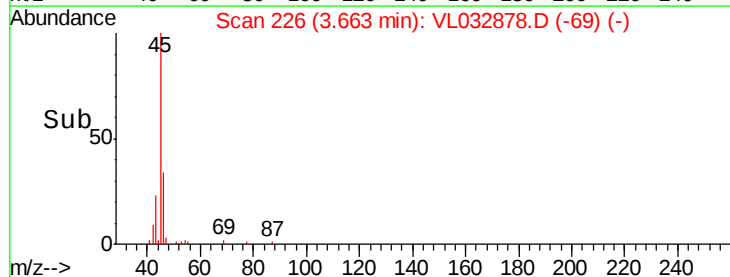
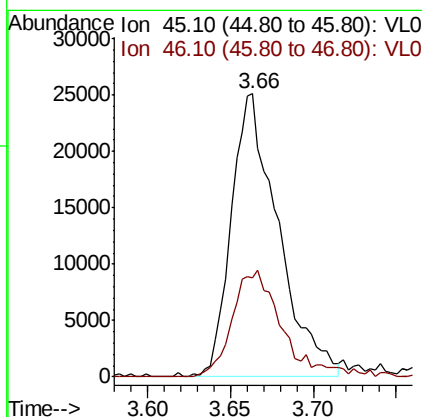
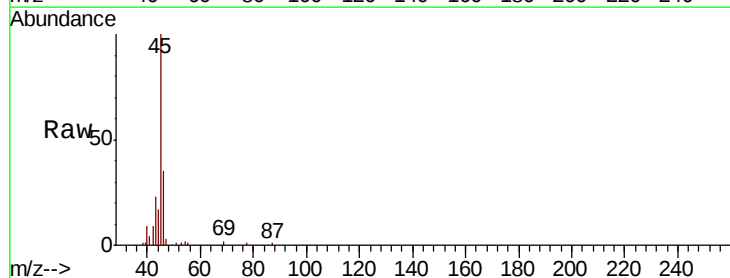
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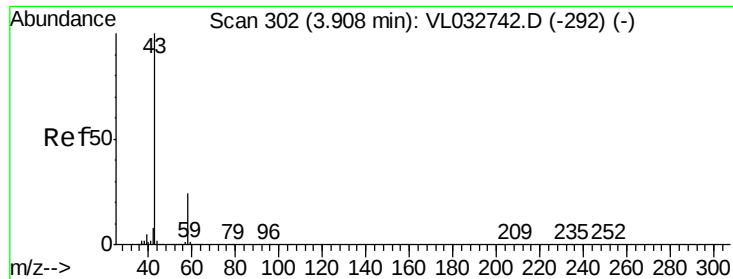
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#13
Ethanol
Concen: 3.105 ppbv
RT: 3.66 min Scan# 226
Delta R.T. 0.01 min
Lab File: VL032878.D
Acq: 4 Dec 2018 16:04

Tgt Ion: 45 Resp: 49547
Ion Ratio Lower Upper
45 100
46 40.4 14.5 57.9





#15

Acetone

Concen: 5.847 ppbv m

RT: 3.91 min Scan# 302

Delta R.T. -0.00 min

Lab File: VL032878.D

Acq: 4 Dec 2018 16:04

Instrument :

MSVOA_L

ClientSampleId :

MMSV-06DL

Tot Ion: 43 Resp: 819979

Ion Ratio Lower Upper

43 100

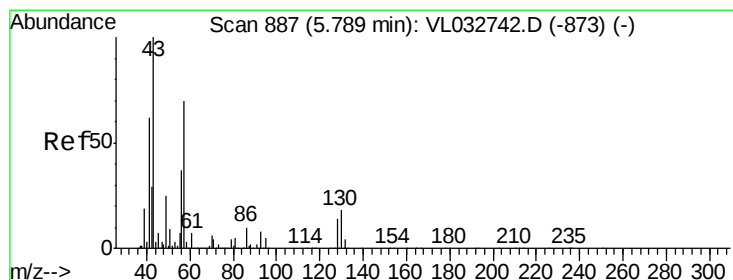
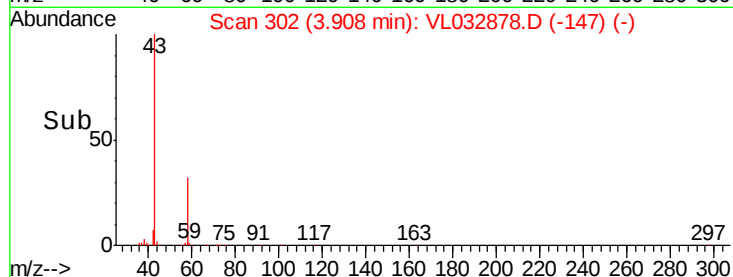
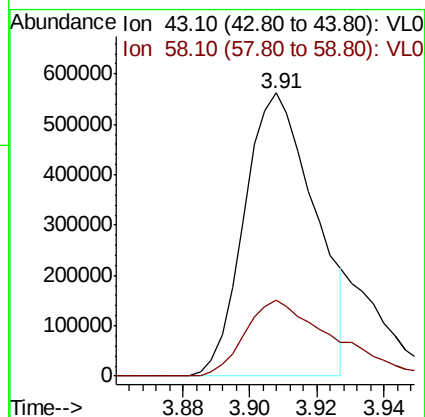
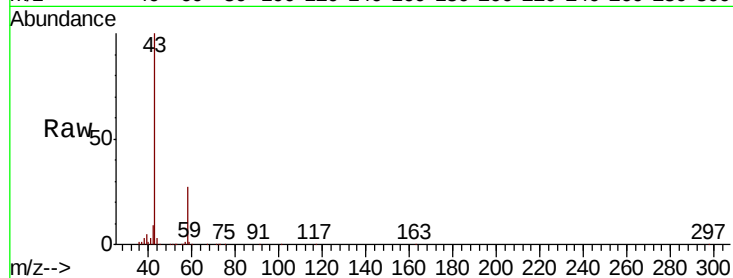
58 33.8 21.1 31.7#

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#26

Hexane

Concen: 3.347 ppbv

RT: 5.79 min Scan# 887

Delta R.T. -0.00 min

Lab File: VL032878.D

Acq: 4 Dec 2018 16:04

Tgt Ion: 57 Resp: 486974

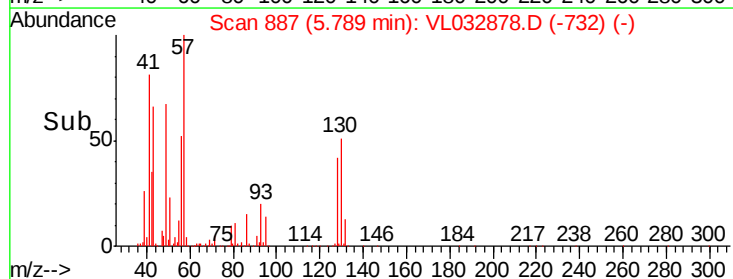
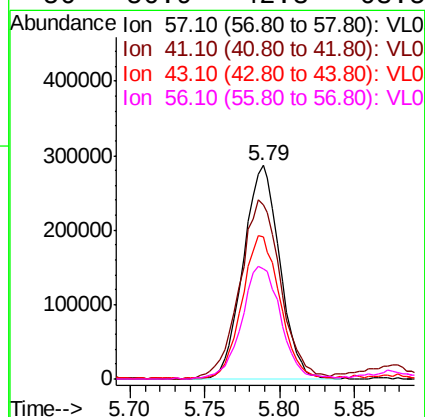
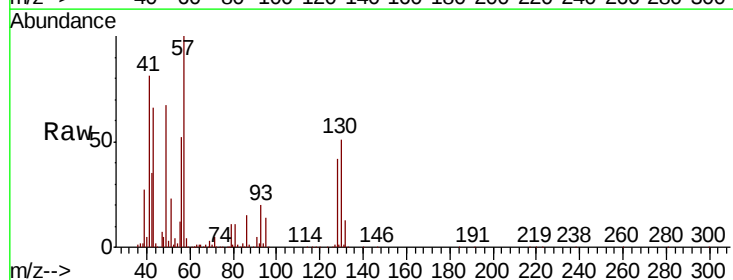
Ion Ratio Lower Upper

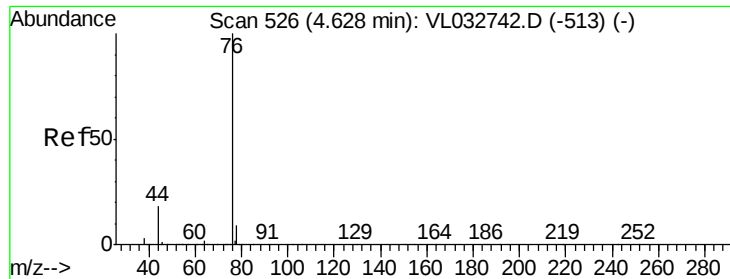
57 100

41 93.4 70.3 105.5

43 69.8 174.0 261.0#

56 56.9 42.3 63.5





#27

Carbon Disulfide

Concen: 5.221 ppbv

RT: 4.63 min Scan# 526

Delta R.T. -0.00 min

Lab File: VL032878.D

Acq: 4 Dec 2018 16:04

Instrument :

MSVOA_L

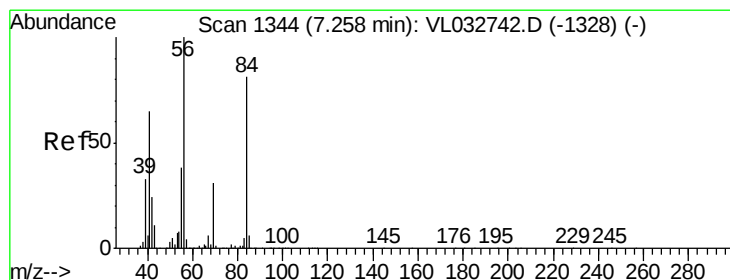
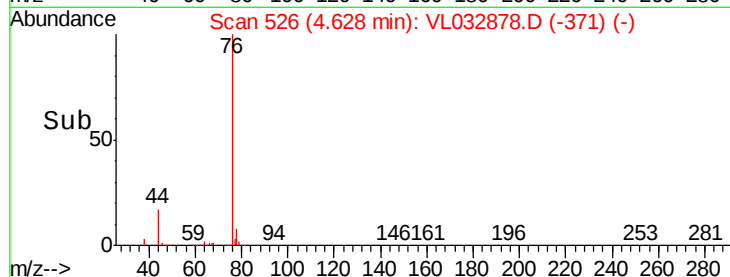
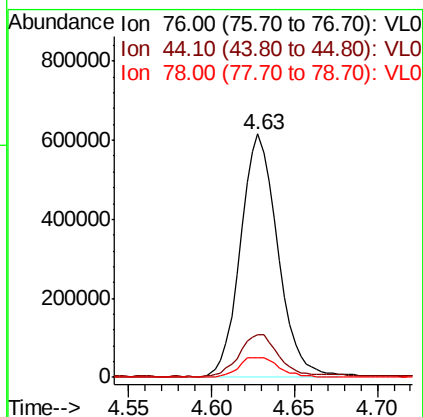
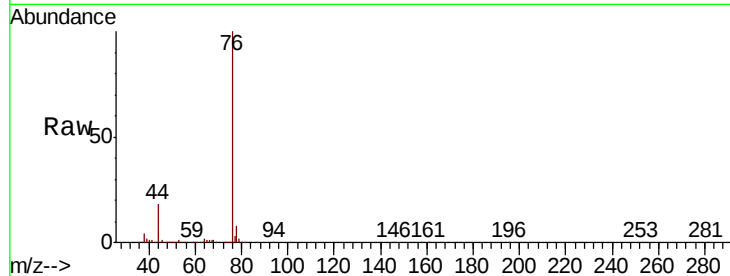
ClientSampleId :

MMSV-06DL

Tot Ion:	76	Resp:	963310
Ion	Ratio	Lower	Upper
76	100		
44	18.9	14.4	21.6
78	9.0	7.7	11.5

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#30

Cyclohexane

Concen: 1.270 ppbv

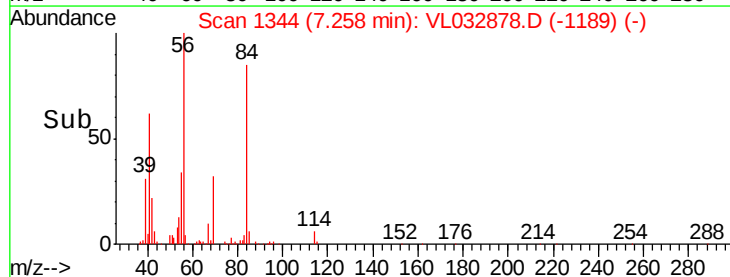
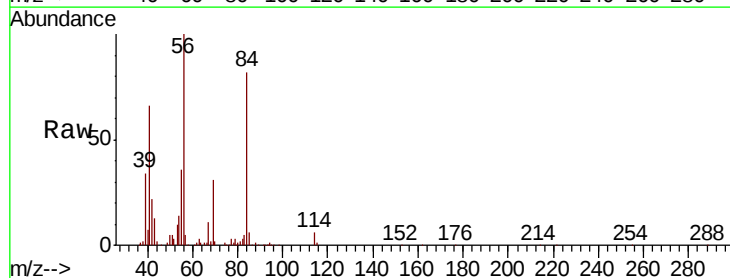
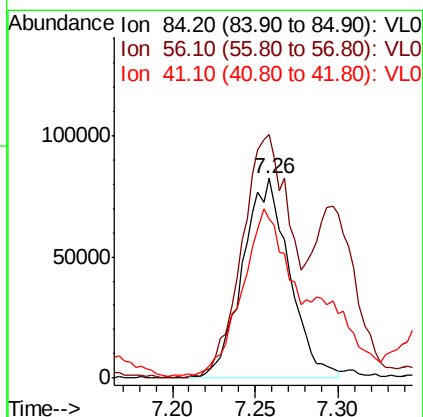
RT: 7.26 min Scan# 1344

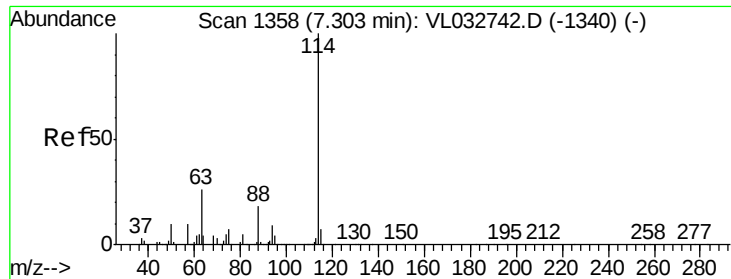
Delta R.T. -0.00 min

Lab File: VL032878.D

Acq: 4 Dec 2018 16:04

Tgt Ion:	84	Resp:	161642
Ion	Ratio	Lower	Upper
84	100		
56	135.1	105.0	157.4
41	119.8	65.3	97.9#





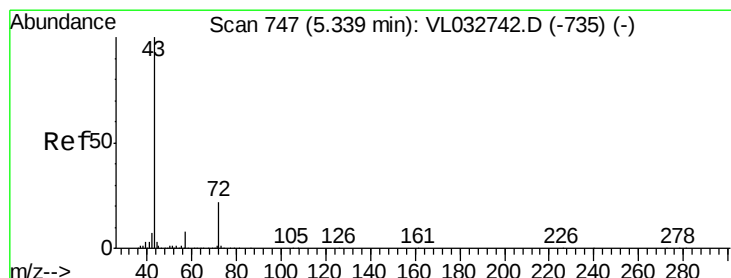
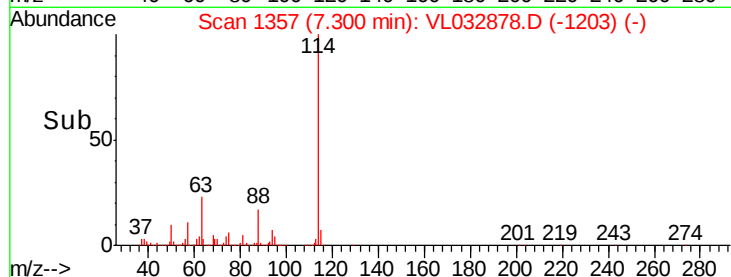
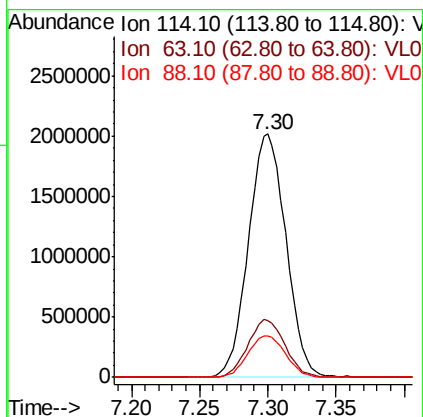
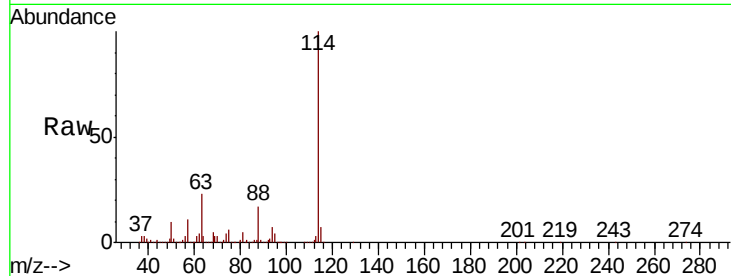
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.30 min Scan# 1357
 Delta R.T. -0.00 min
 Lab File: VL032878.D
 Acq: 4 Dec 2018 16:04

Instrument :
 MSVOA_L
 ClientSampleId :
 MMSV-06DL

Tot Ion:114 Resp: 3852668
 Ion Ratio Lower Upper
 114 100
 63 23.7 20.9 31.3
 88 17.3 14.4 21.6

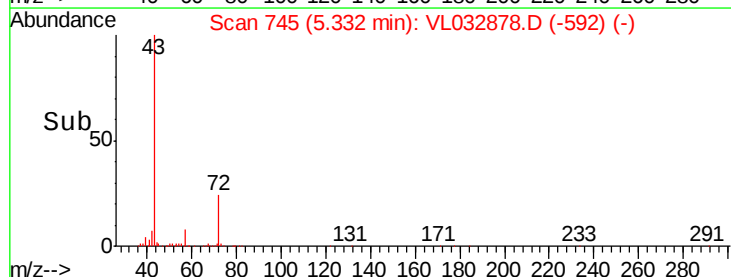
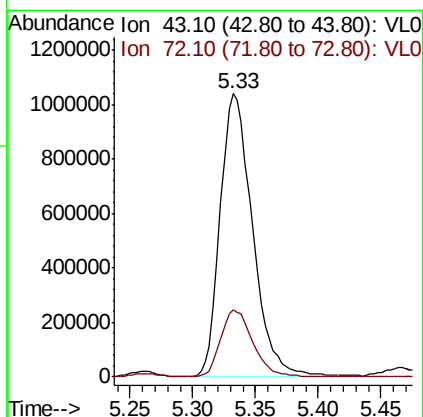
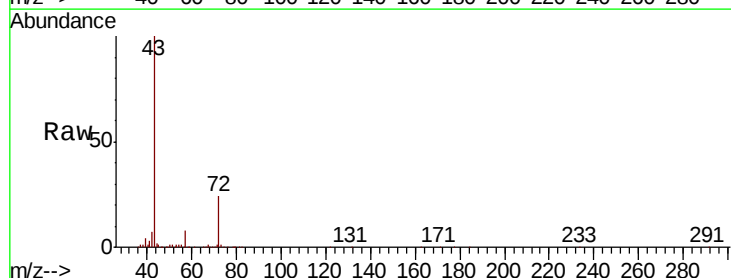
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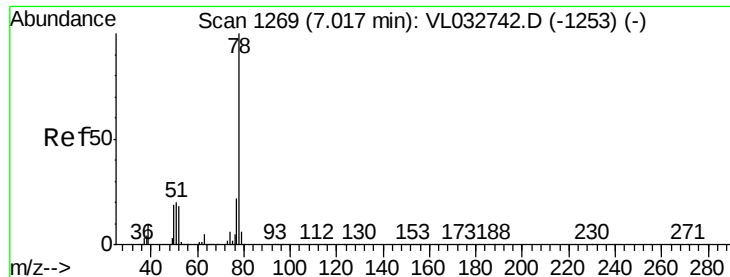
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#34
 2-Butanone
 Concen: 9.289 ppbv
 RT: 5.33 min Scan# 745
 Delta R.T. -0.01 min
 Lab File: VL032878.D
 Acq: 4 Dec 2018 16:04

Tgt Ion: 43 Resp: 1856247
 Ion Ratio Lower Upper
 43 100
 72 23.7 18.4 27.6





#36

Benzene

Concen: 1.944 ppbv

RT: 7.01 min Scan# 1267

Delta R.T. -0.01 min

Lab File: VL032878.D

Acq: 4 Dec 2018 16:04

Instrument :

MSVOA_L

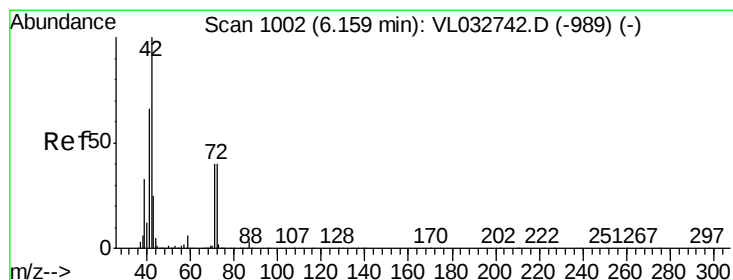
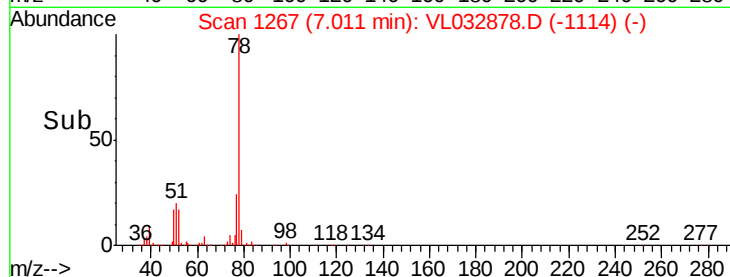
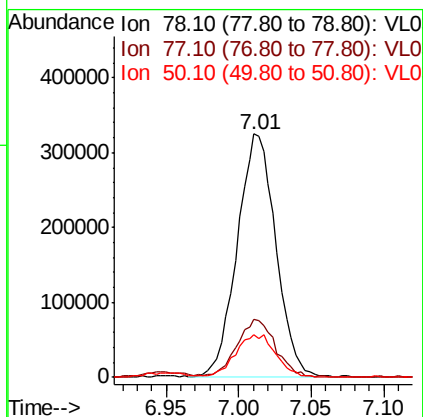
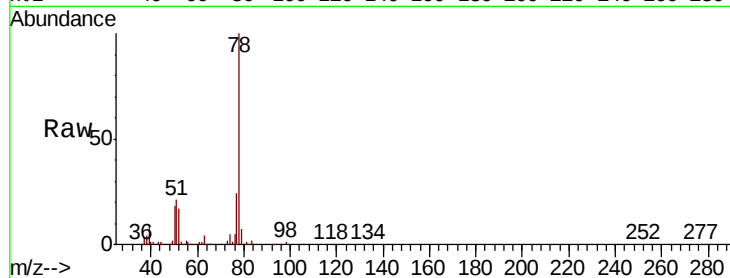
ClientSampleId :

MMSV-06DL

Tot Ion:	78	Resp:	596468
Ion	Ratio	Lower	Upper
78	100		
77	23.6	17.8	26.8
50	17.5	15.4	23.0

Manual Integrations
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#41

Tetrahydrofuran

Concen: 1.909 ppbv

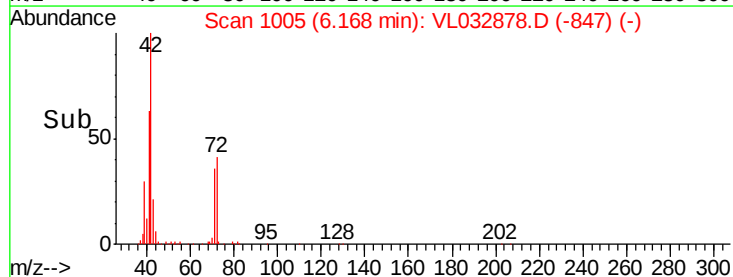
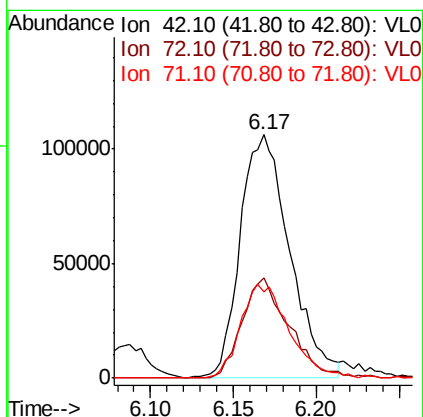
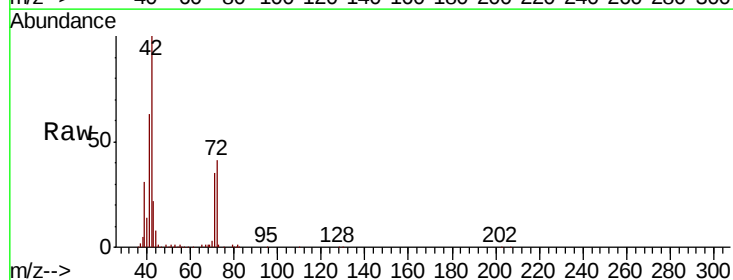
RT: 6.17 min Scan# 1005

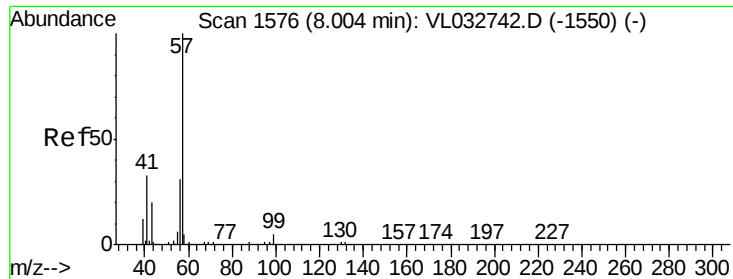
Delta R.T. 0.01 min

Lab File: VL032878.D

Acq: 4 Dec 2018 16:04

Tgt Ion:	42	Resp:	218799
Ion	Ratio	Lower	Upper
42	100		
72	39.5	32.4	48.6
71	39.0	31.6	47.4





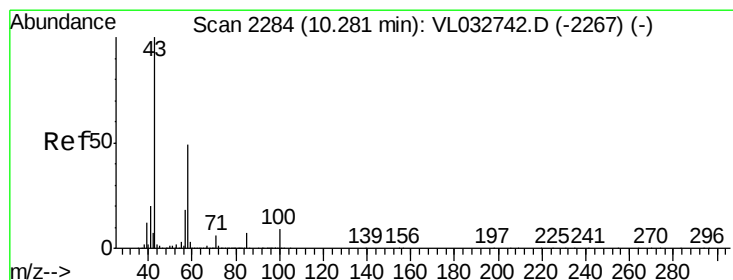
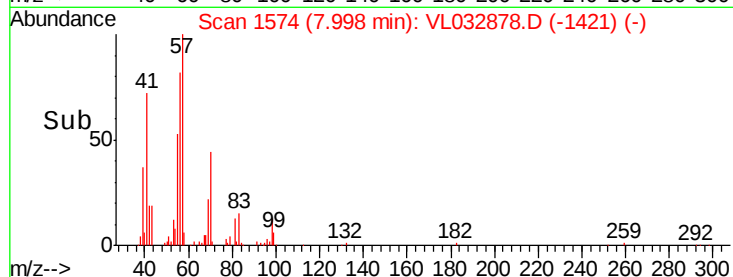
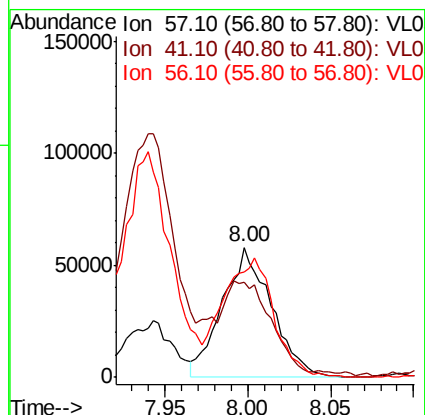
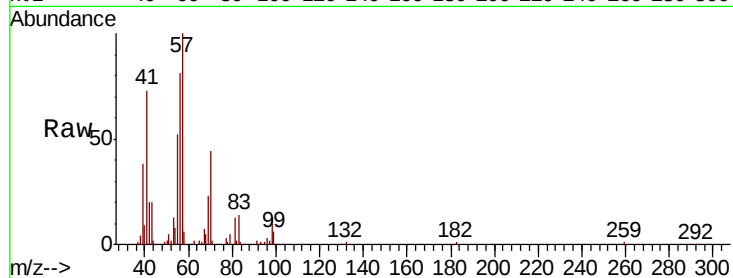
#44
 2,2,4-Trimethylpentane
 Concen: 0.229 ppbv
 RT: 8.00 min Scan# 1574
 Delta R.T. -0.01 min
 Lab File: VL032878.D
 Acq: 4 Dec 2018 16:04

Instrument :
 MSVOA_L
 ClientSampleId :
 MMSV-06DL

Tot Ion	Ratio	Lower	Upper
57	100		
41	72.9	26.6	39.8#
56	98.0	24.8	37.2#

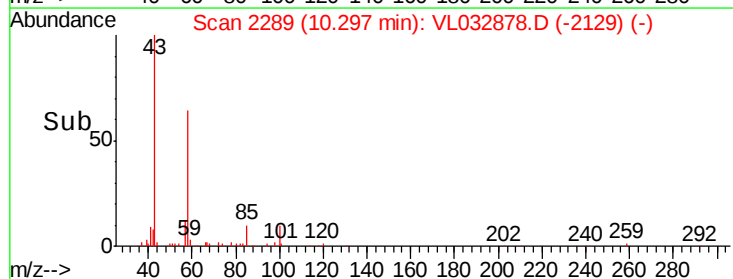
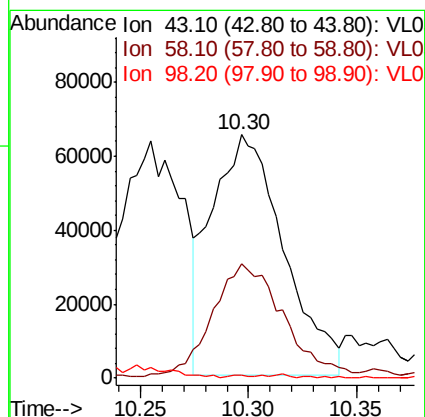
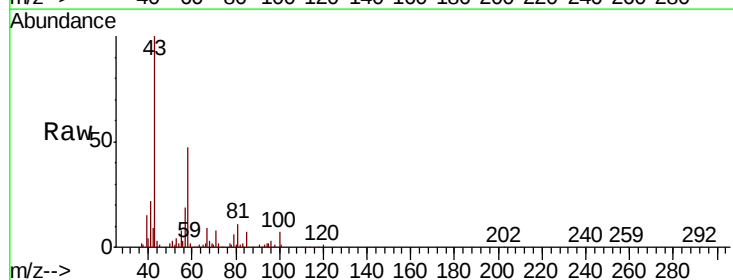
Manual Integrations
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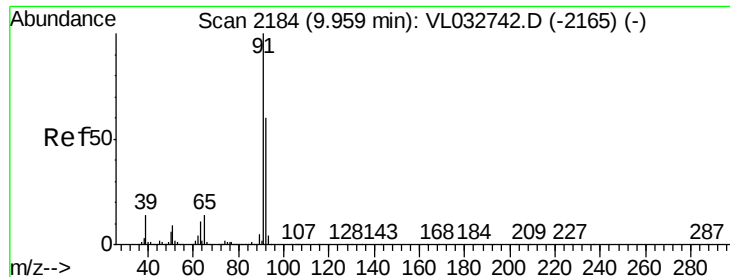
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#51
 2-Hexanone
 Concen: 0.756 ppbv m
 RT: 10.30 min Scan# 2289
 Delta R.T. 0.02 min
 Lab File: VL032878.D
 Acq: 4 Dec 2018 16:04

Tgt Ion	Ratio	Lower	Upper
43	100		
58	0.0	38.9	58.3#
98	0.0	0.2	0.4#





#53

Toluene

Concen: 1.840 ppbv

RT: 9.96 min Scan# 2183

Delta R.T. -0.00 min

Lab File: VL032878.D

Acq: 4 Dec 2018 16:04

Instrument :

MSVOA_L

ClientSampleId :

MMSV-06DL

Tot Ion: 91 Resp: 588777

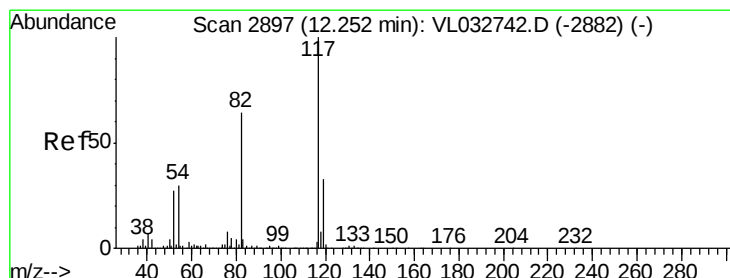
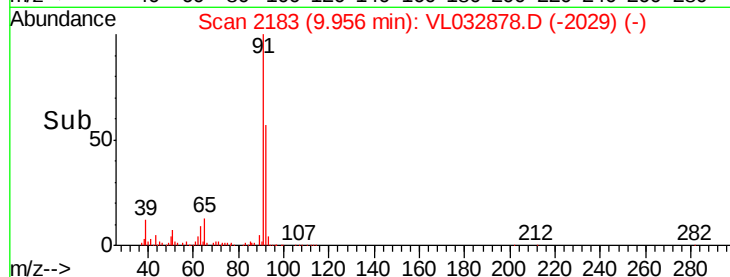
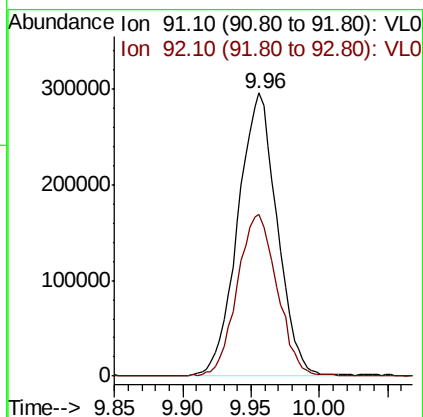
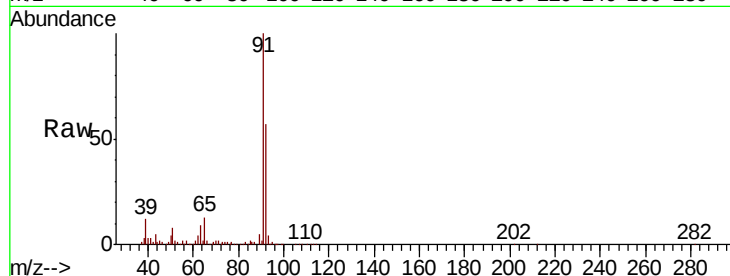
Ion Ratio Lower Upper

91 100

92 58.5 47.9 71.9

Manual Integrations
APPROVED

MMDadoda
12/10/2018 12:59:53 PM



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.25 min Scan# 2896

Delta R.T. -0.00 min

Lab File: VL032878.D

Acq: 4 Dec 2018 16:04

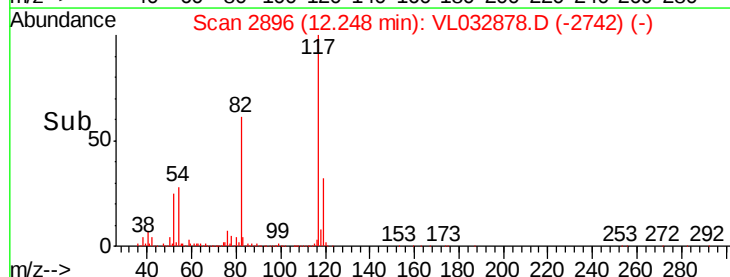
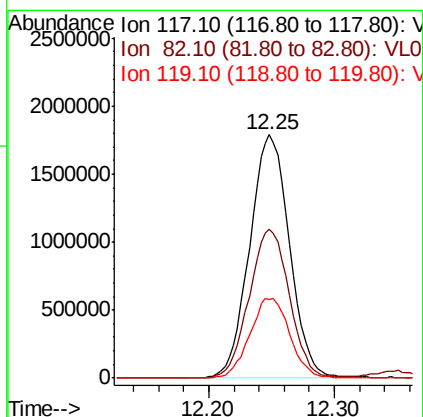
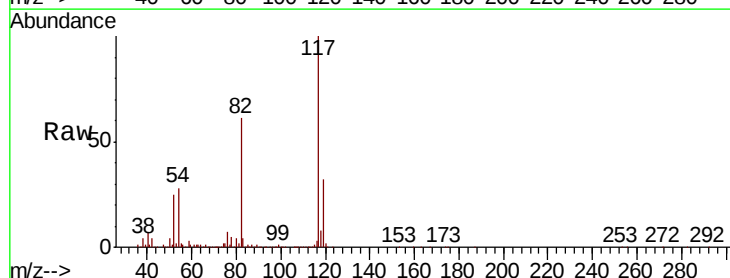
Tgt Ion: 117 Resp: 3948321

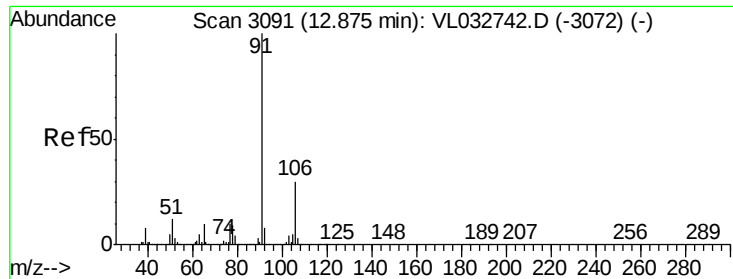
Ion Ratio Lower Upper

117 100

82 62.1 51.0 76.6

119 33.2 28.0 42.0





#58

Ethyl Benzene

Concen: 0.397 ppbv

RT: 12.87 min Scan# 3090

Delta R.T. -0.00 min

Lab File: VL032878.D

Acq: 4 Dec 2018 16:04

Instrument :

MSVOA_L

ClientSampleId :

MMSV-06DL

Tot Ion: 91 Resp: 188873

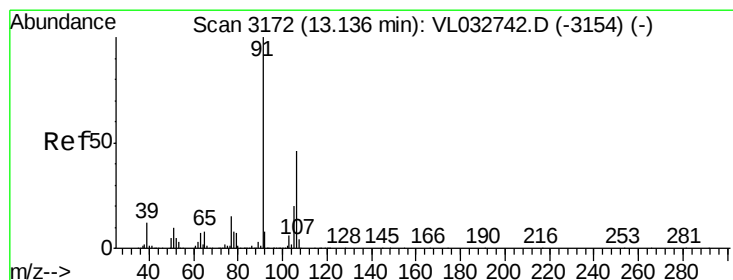
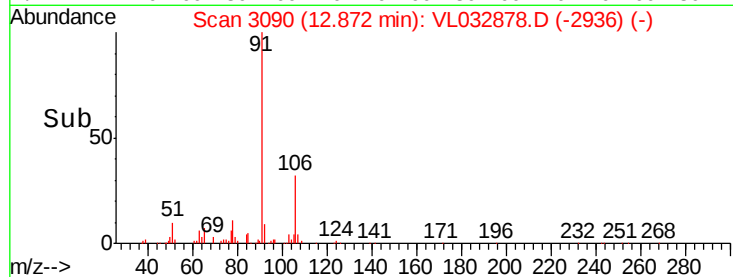
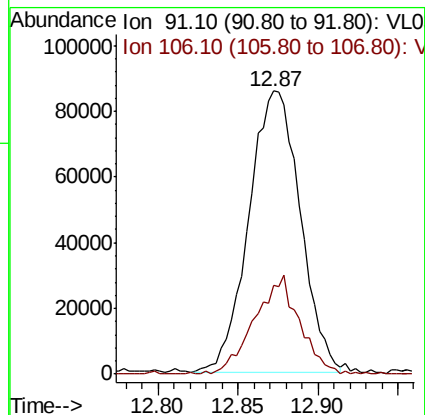
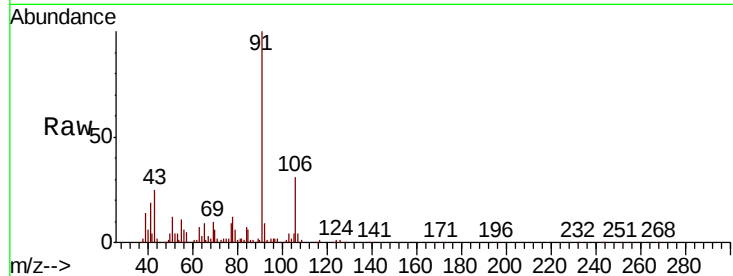
Ion Ratio Lower Upper

91 100

106 31.6 23.6 35.4

Manual Integrations
APPROVED

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#59

m/p-Xylene

Concen: 0.772 ppbv m

RT: 13.14 min Scan# 3172

Delta R.T. -0.00 min

Lab File: VL032878.D

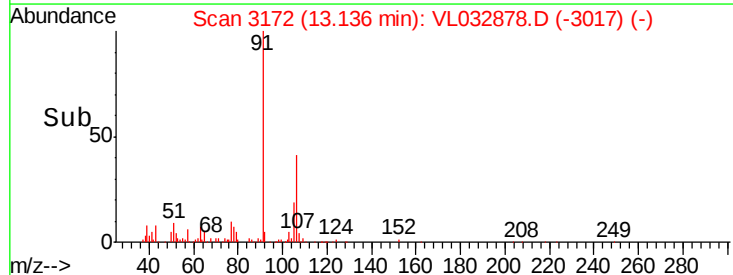
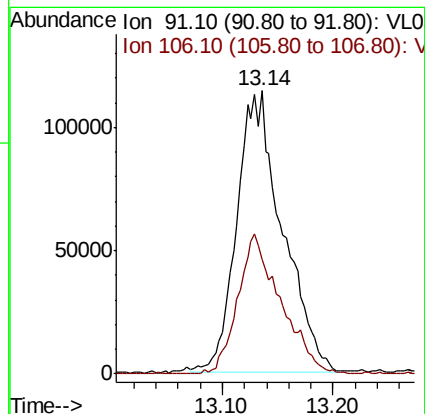
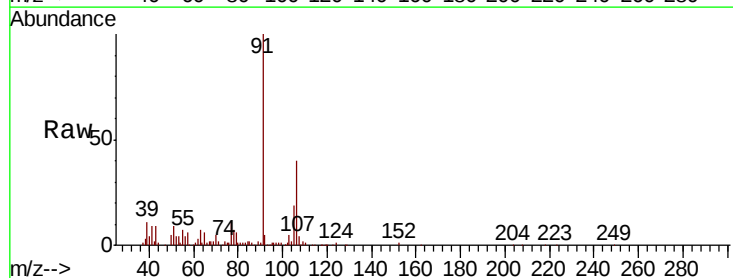
Acq: 4 Dec 2018 16:04

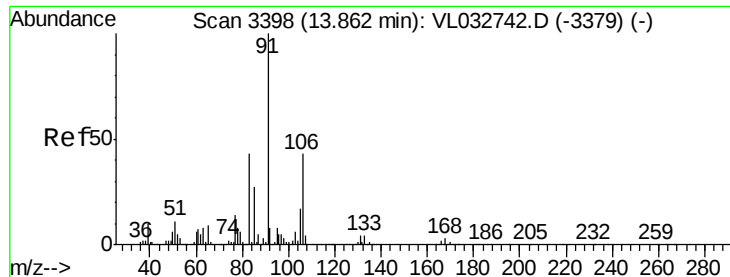
Tgt Ion: 91 Resp: 326462

Ion Ratio Lower Upper

91 100

106 47.2 36.1 54.1





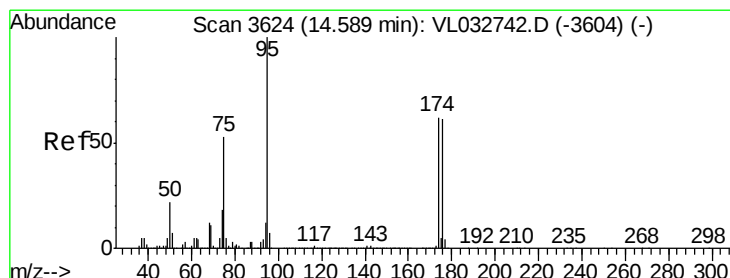
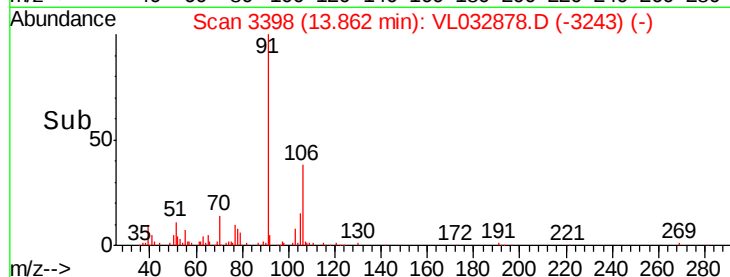
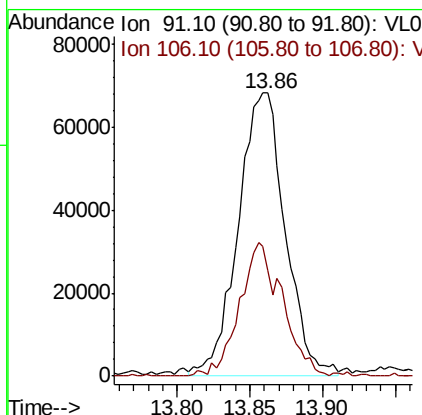
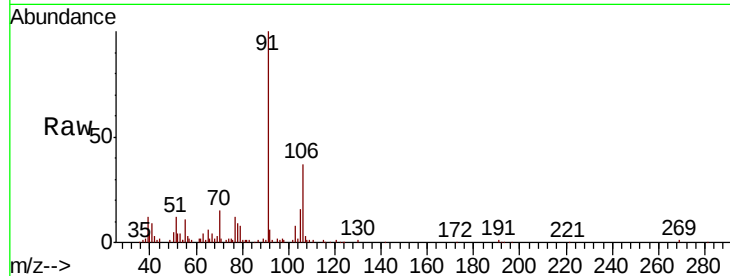
#60
o-Xylene
Concen: 0.363 ppbv m
RT: 13.86 min Scan# 3398
Delta R.T. -0.00 min
Lab File: VL032878.D
Acq: 4 Dec 2018 16:04

Instrument :
MSVOA_L
ClientSampleId :
MMSV-06DL

Tot Ion: 91 Resp: 154190
Ion Ratio Lower Upper
91 100
106 43.4 21.9 65.7

Manual Integrations
APPROVED

MMDadoda
12/10/2018 12:59:53 PM



#68
1-Bromo-4-Fluorobenzene
Concen: 9.702 ppbv
RT: 14.59 min Scan# 3623
Delta R.T. -0.00 min
Lab File: VL032878.D
Acq: 4 Dec 2018 16:04

Tgt Ion: 95 Resp: 2865128
Ion Ratio Lower Upper
95 100
174 67.3 50.7 76.1
175 5.0 3.8 5.6

