

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL113018\
 Data File : VL032851.D
 Acq On : 30 Nov 2018 16:27
 Operator : SY/AP
 Sample : J6132-01DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SITE-D-DUPDL

Manual Integrations
 APPROVED

apatel
 12/4/2018 4:11:02 PM

Quant Time: Dec 03 14:35:43 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 14
 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	1592053	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	4064343	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3885985	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	2951810	10.16	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.05	41	2670855m	52.877	ppbv	
10) Heptane	8.25	43	152058	0.789	ppbv	98
13) Ethanol	3.67	45	63467m	3.836	ppbv	
15) Acetone	3.91	43	369160m	2.539	ppbv	
26) Hexane	5.79	57	479938	3.182	ppbv #	44
27) Carbon Disulfide	4.62	76	2727159	14.258	ppbv	99
30) Cyclohexane	7.26	84	1981145	15.016	ppbv	96
34) 2-Butanone	5.34	43	484099	2.296	ppbv	98
36) Benzene	7.01	78	3930787	12.145	ppbv	98
44) 2,2,4-Trimethylpentane	8.00	57	124698	0.231	ppbv #	1
53) Toluene	9.95	91	1962740	5.813	ppbv	99
58) Ethyl Benzene	12.87	91	362905	0.776	ppbv	99
59) m/p-Xylene	13.13	91	1032072	2.479	ppbv	97
60) o-Xylene	13.86	91	484109	1.156	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	136175m	0.304	ppbv	
74) 1,2,4-Trimethylbenzene	16.94	105	255604	0.532	ppbv #	71

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

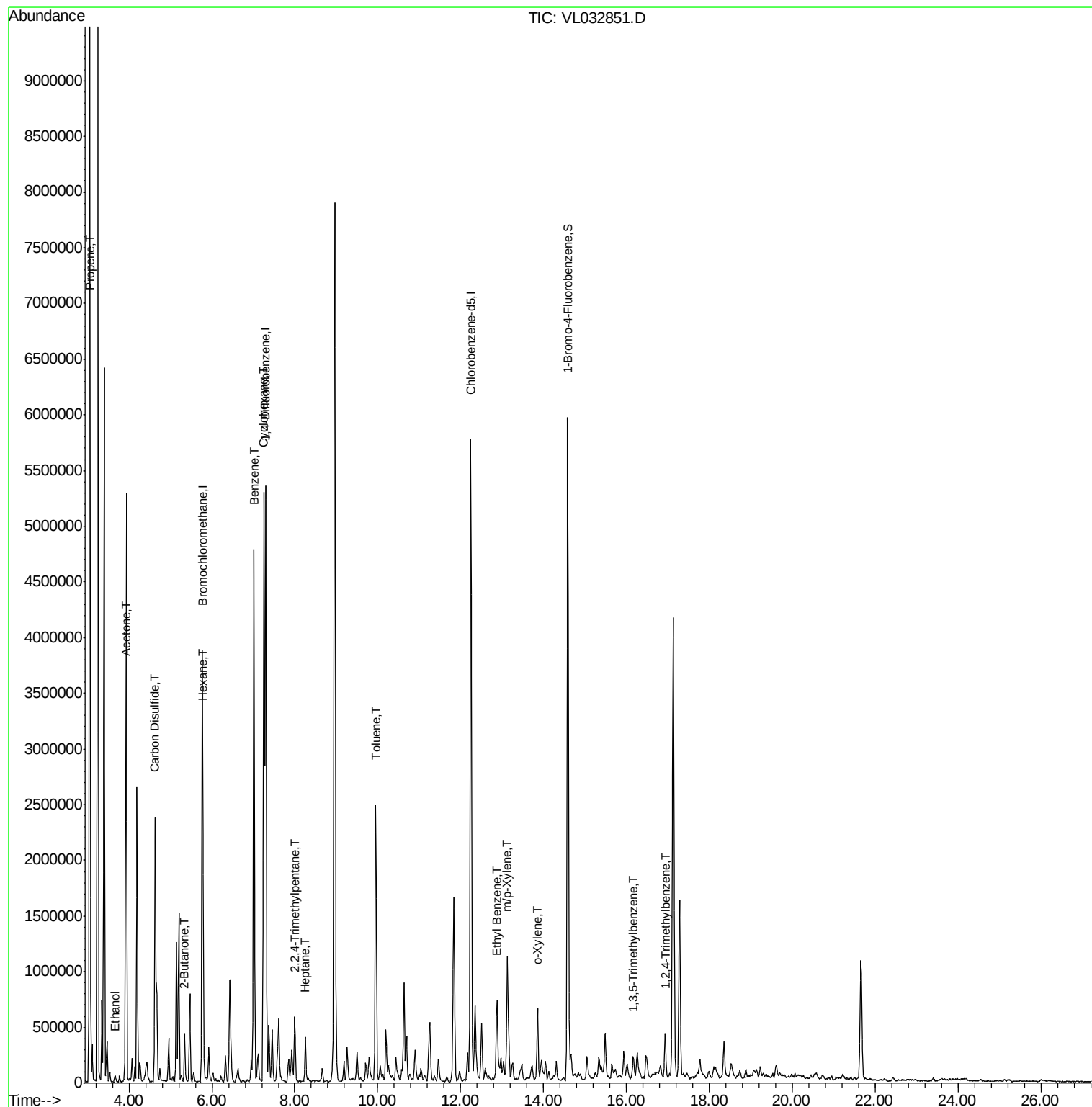
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL113018\
Data File : VL032851.D
Acq On : 30 Nov 2018 16:27
Operator : SY/AP
Sample : J6132-01DL 10X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SITE-D-DUPDL

Manual Integrations
APPROVED

apatel
12/4/2018 4:11:02 PM

Quant Time: Dec 03 14:35:43 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# 880

Delta R.T. -0.01 min

Lab File: VL032851.D

Acq: 30 Nov 2018 16:27

Instrument :

MSVOA_L

ClientSampleId :

SITE-D-DUPDL

Tot Ion: 49 Resp: 1592053

Ion Ratio Lower Upper

49 100

128 52.8 24.9 74.6

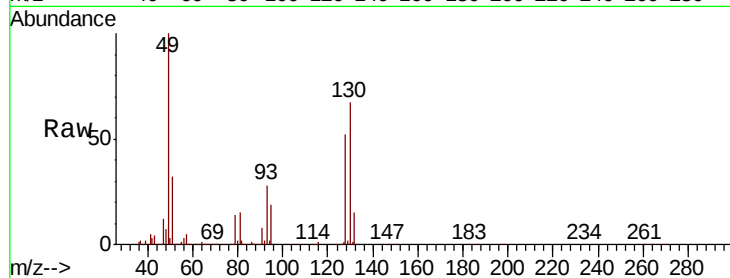
130 67.8 31.4 94.2

Manual Integrations

APPROVED

apatel

12/4/2018 4:11:02 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

1200000

1000000

800000

600000

400000

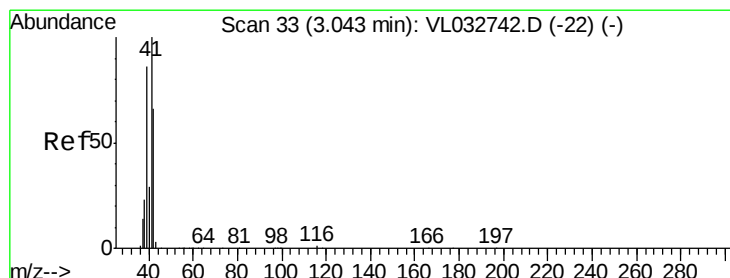
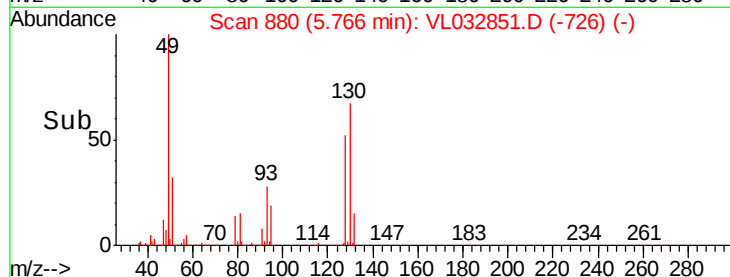
200000

0

5.77

5.75 5.80

Time-->



#9

Propene

Concen: 52.877 ppbv m

RT: 3.05 min Scan# 36

Delta R.T. 0.01 min

Lab File: VL032851.D

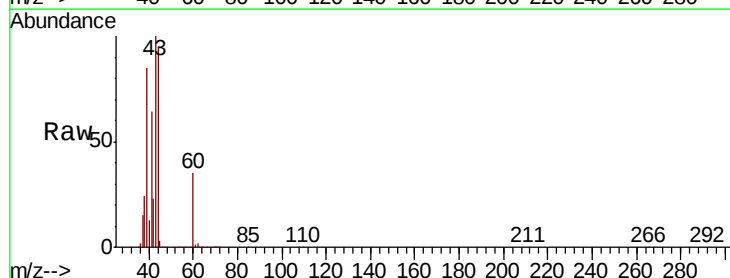
Acq: 30 Nov 2018 16:27

Tgt Ion: 41 Resp: 2670855

Ion Ratio Lower Upper

41 100

42 101.0 55.0 82.6#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

1500000

1000000

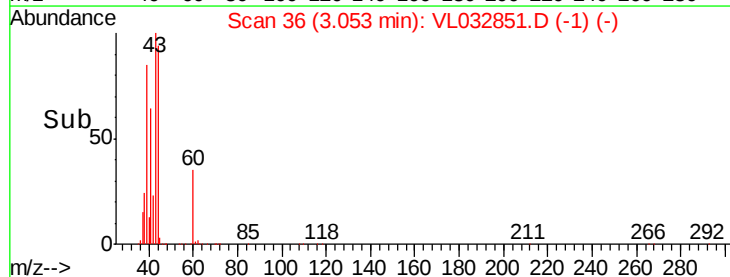
500000

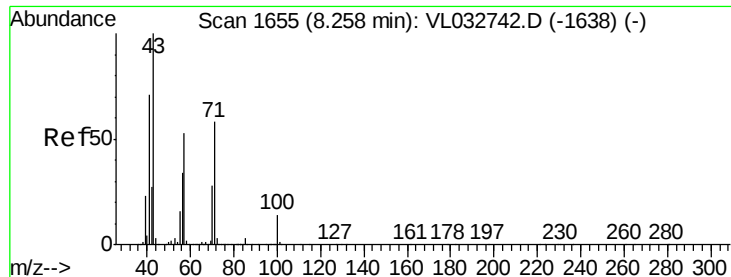
0

3.05

3.00 3.10

Time-->





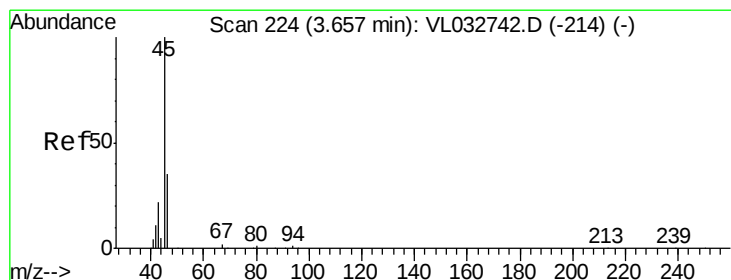
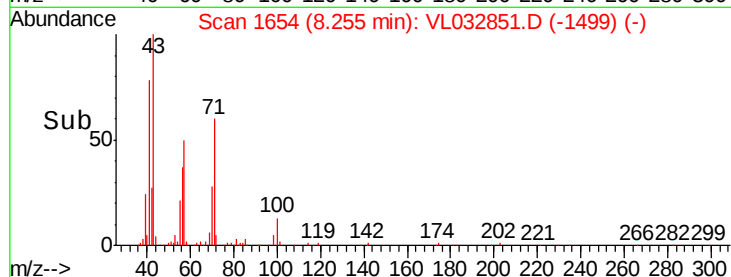
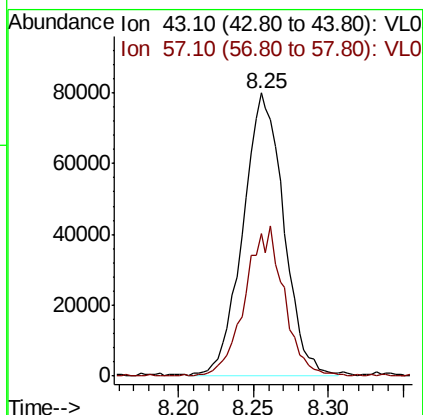
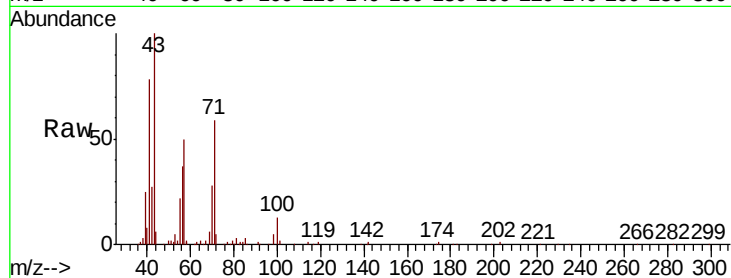
#10
Heptane
Concen: 0.789 ppbv
RT: 8.25 min Scan# 1654
Delta R.T. -0.00 min
Lab File: VL032851.D
Acq: 30 Nov 2018 16:27

Instrument :
MSVOA_L
ClientSampleId :
SITE-D-DUPDL

Tot Ion: 43 Resp: 152058
Ion Ratio Lower Upper
43 100
57 50.6 41.8 62.8

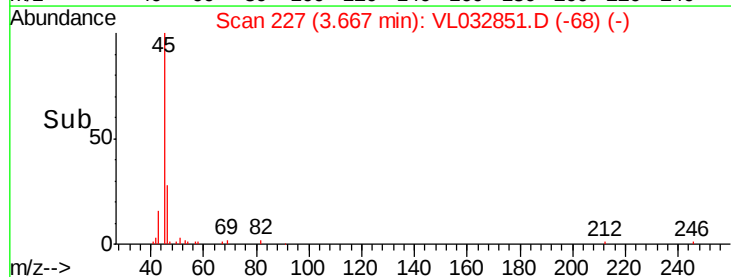
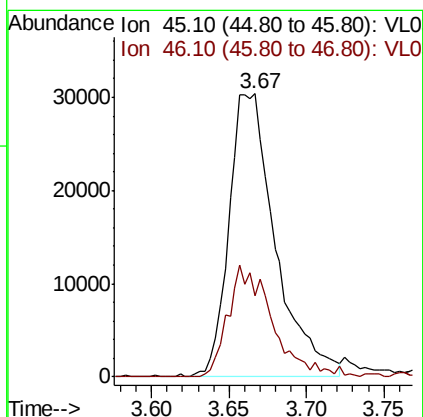
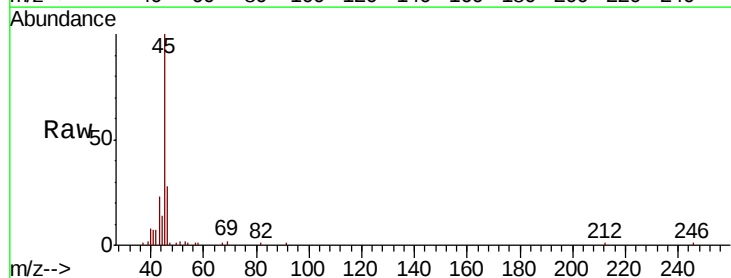
Manual Integrations
APPROVED

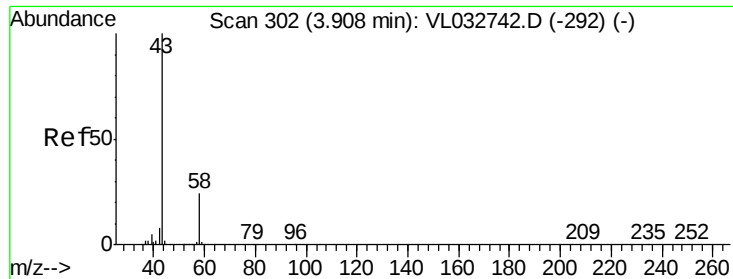
apatel
12/4/2018 4:11:02 PM



#13
Ethanol
Concen: 3.836 ppbv m
RT: 3.67 min Scan# 227
Delta R.T. 0.01 min
Lab File: VL032851.D
Acq: 30 Nov 2018 16:27

Tgt Ion: 45 Resp: 63467
Ion Ratio Lower Upper
45 100
46 37.9 14.5 57.9





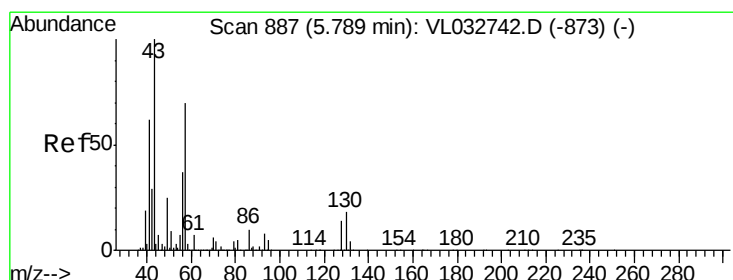
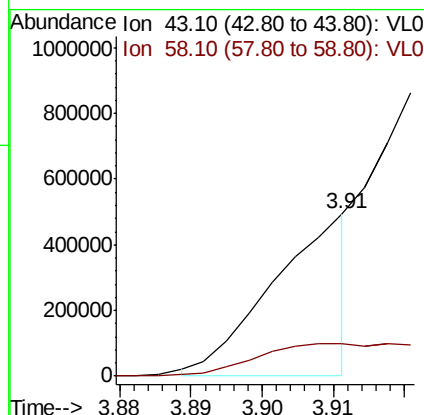
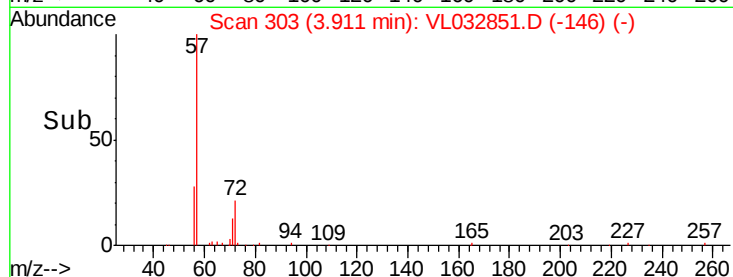
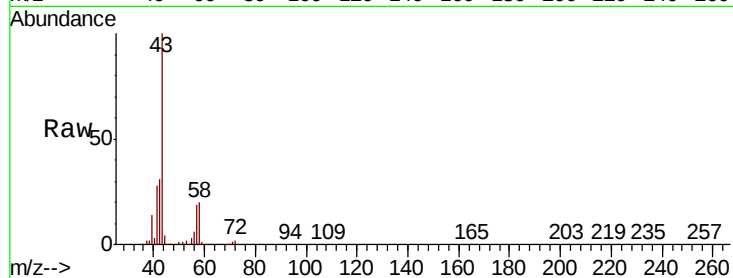
#15
Acetone
Concen: 2.539 ppbv m
RT: 3.91 min Scan# 303
Delta R.T. 0.00 min
Lab File: VL032851.D
Acq: 30 Nov 2018 16:27

Instrument :
MSVOA_L
ClientSampled :
SITE-D-DUPDL

Tot Ion: 43 Resp: 369160
Ion Ratio Lower Upper
43 100
58 67.7 21.1 31.7#

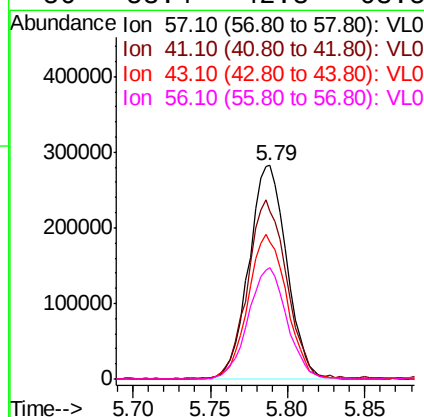
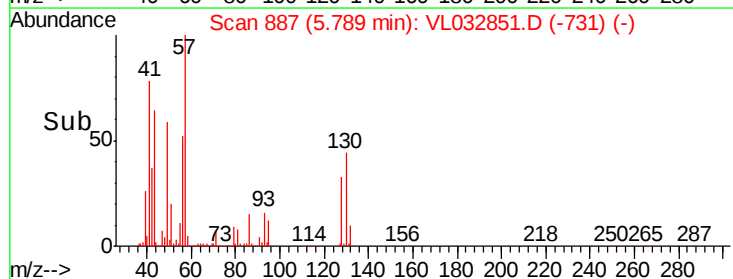
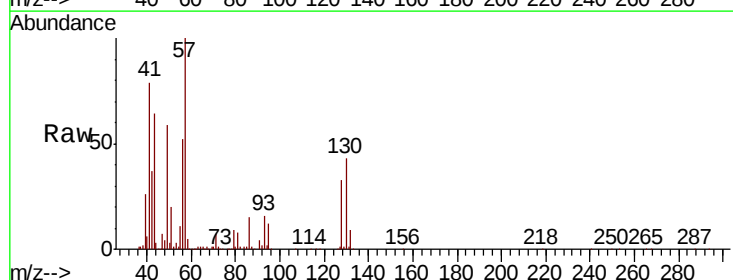
Manual Integrations
APPROVED

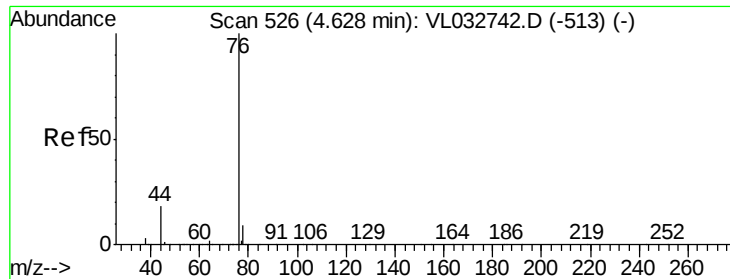
apatel
12/4/2018 4:11:02 PM



#26
Hexane
Concen: 3.182 ppbv
RT: 5.79 min Scan# 887
Delta R.T. 0.00 min
Lab File: VL032851.D
Acq: 30 Nov 2018 16:27

Tgt Ion: 57 Resp: 479938
Ion Ratio Lower Upper
57 100
41 87.7 70.3 105.5
43 69.6 174.0 261.0#
56 53.4 42.3 63.5





#27

Carbon Disulfide

Concen: 14.258 ppbv

RT: 4.62 min Scan# 525

Delta R.T. -0.00 min

Lab File: VL032851.D

Acq: 30 Nov 2018 16:27

Instrument :

MSVOA_L

ClientSampleId :

SITE-D-DUPDL

Tot Ion: 76 Resp: 2727159

Ion Ratio Lower Upper

76 100

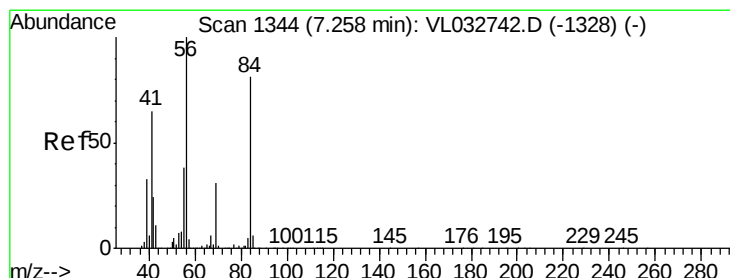
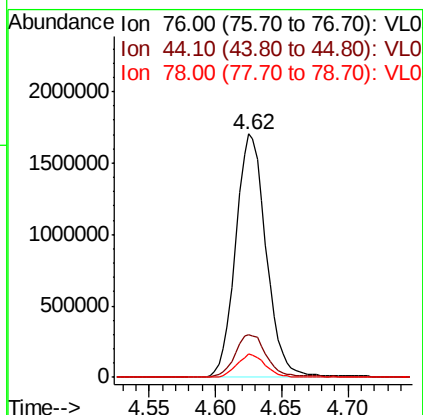
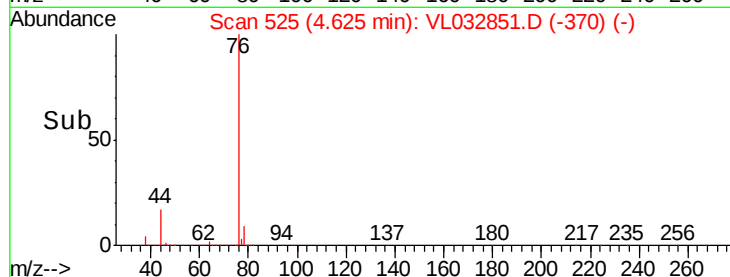
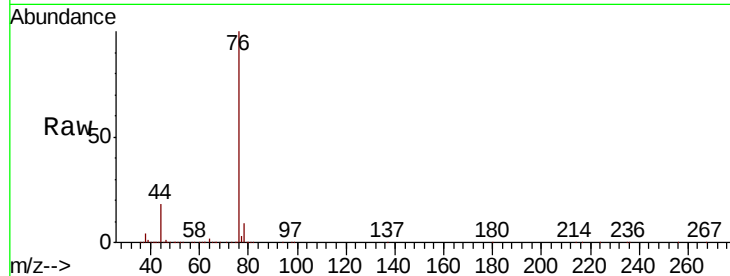
44 17.9 14.4 21.6

78 9.1 7.7 11.5

Manual Integrations
APPROVED

apatel

12/4/2018 4:11:02 PM



#30

Cyclohexane

Concen: 15.016 ppbv

RT: 7.26 min Scan# 1343

Delta R.T. -0.00 min

Lab File: VL032851.D

Acq: 30 Nov 2018 16:27

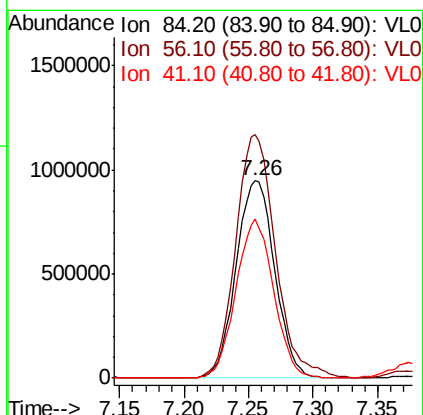
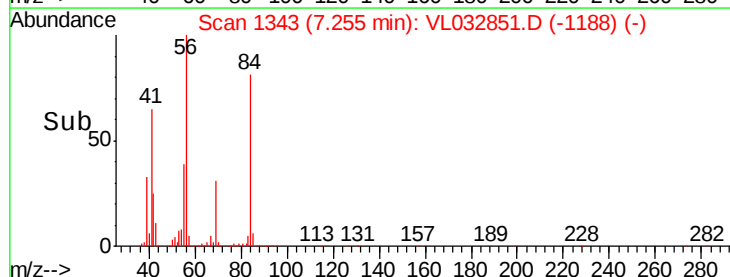
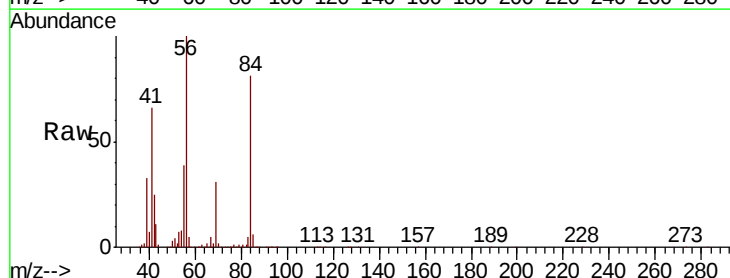
Tgt Ion: 84 Resp: 1981145

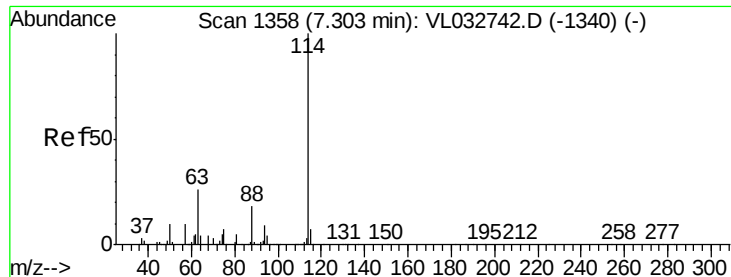
Ion Ratio Lower Upper

84 100

56 127.0 105.0 157.4

41 78.3 65.3 97.9





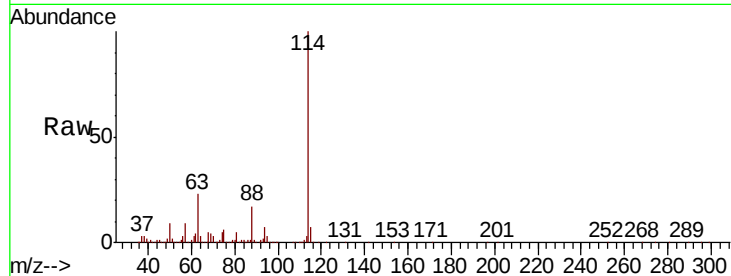
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.30 min Scan# 1356
 Delta R.T. -0.01 min
 Lab File: VL032851.D
 Acq: 30 Nov 2018 16:27

Instrument :
 MSVOA_L
 ClientSampleId :
 SITE-D-DUPDL

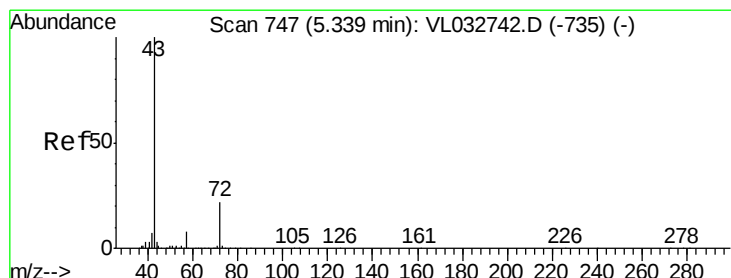
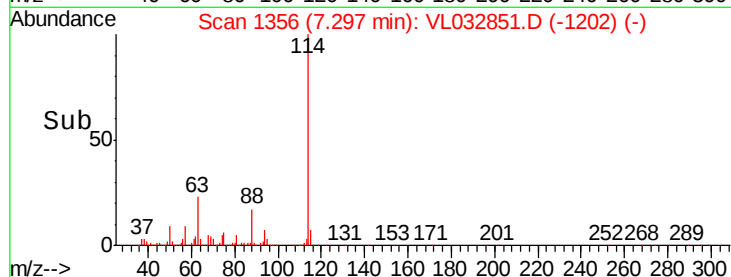
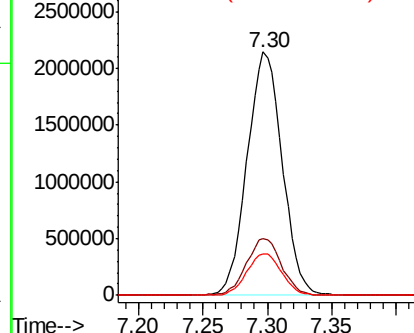
Tot Ion	Ratio	Lower	Upper
114	100		
63	23.8	20.9	31.3
88	17.2	14.4	21.6

Manual Integrations
 APPROVED

apatel
 12/4/2018 4:11:02 PM

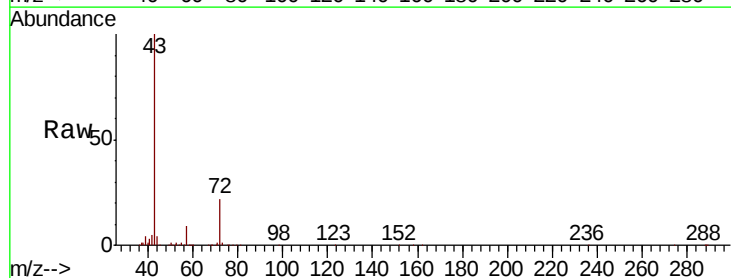


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

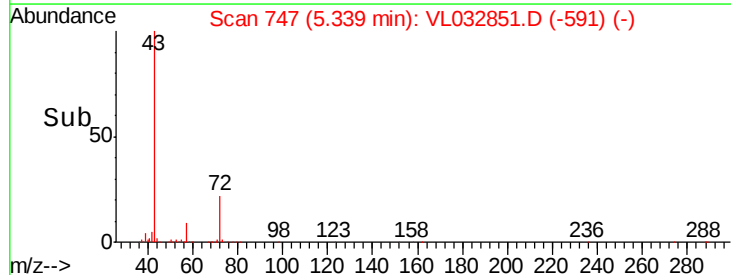
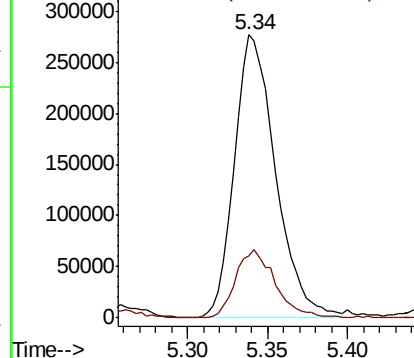


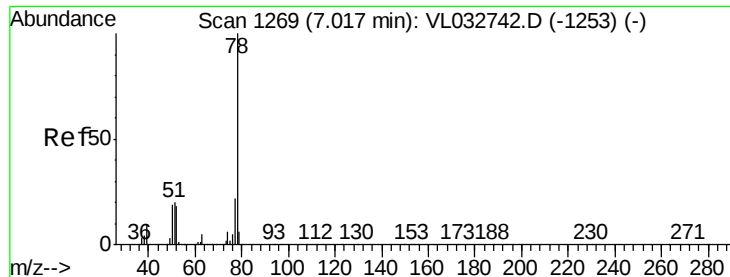
#34
 2-Butanone
 Concen: 2.296 ppbv
 RT: 5.34 min Scan# 747
 Delta R.T. 0.00 min
 Lab File: VL032851.D
 Acq: 30 Nov 2018 16:27

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.7	18.4	27.6



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





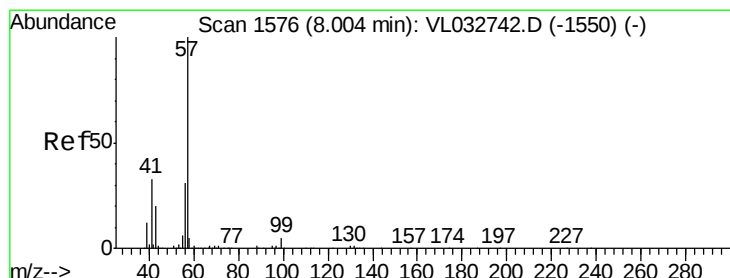
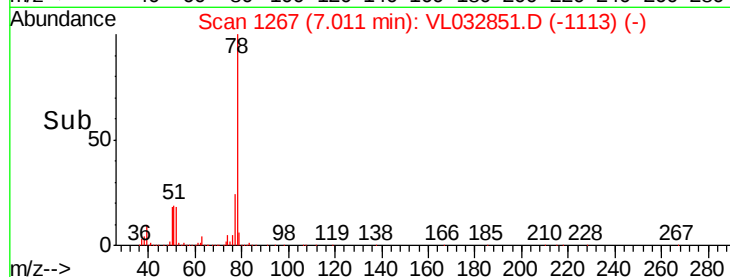
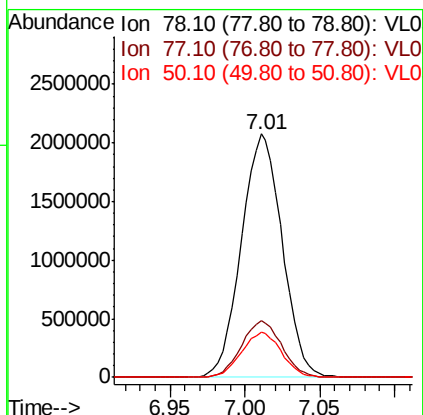
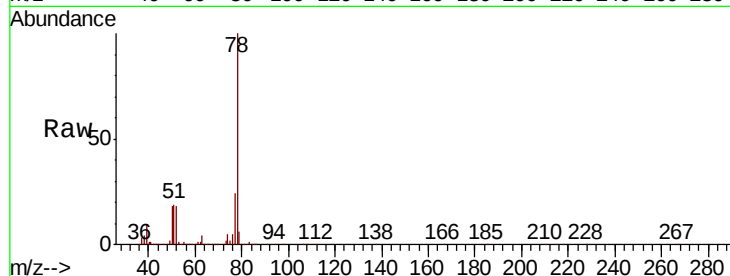
#36
Benzene
Concen: 12.145 ppbv
RT: 7.01 min Scan# 1267
Delta R.T. -0.01 min
Lab File: VL032851.D
Acq: 30 Nov 2018 16:27

Instrument :
MSVOA_L
ClientSampleId :
SITE-D-DUPDL

Tot Ion	Ratio	Lower	Upper
78	100		
77	23.5	17.8	26.8
50	18.3	15.4	23.0

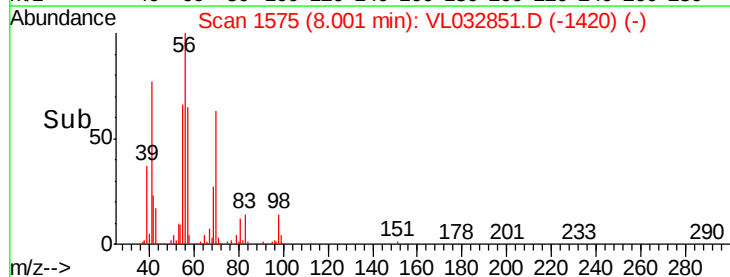
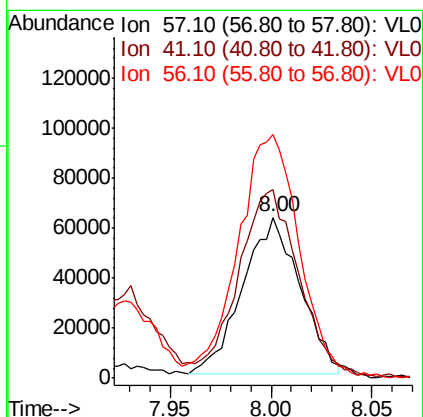
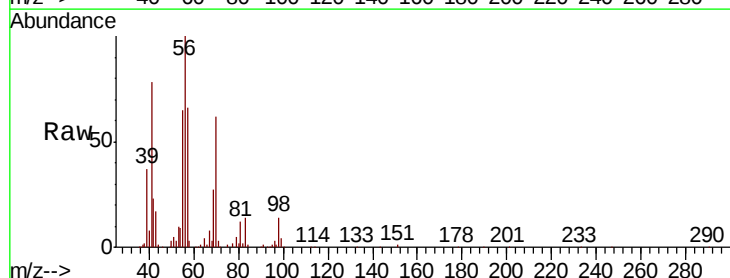
Manual Integrations
APPROVED

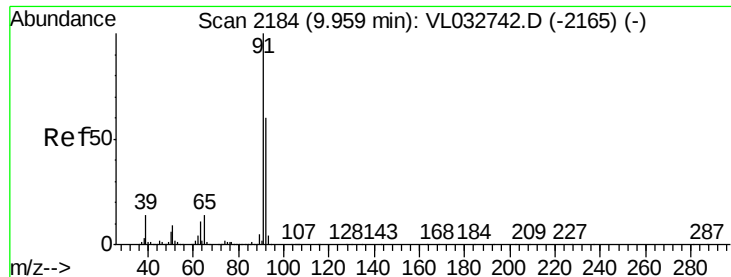
apatel
12/4/2018 4:11:02 PM



#44
2,2,4-Trimethylpentane
Concen: 0.231 ppbv
RT: 8.00 min Scan# 1575
Delta R.T. -0.00 min
Lab File: VL032851.D
Acq: 30 Nov 2018 16:27

Tgt Ion	Ratio	Lower	Upper
57	100		
41	126.6	26.6	39.8#
56	165.4	24.8	37.2#





#53

Toluene

Concen: 5.813 ppbv

RT: 9.95 min Scan# 2182

Delta R.T. -0.01 min

Lab File: VL032851.D

Acq: 30 Nov 2018 16:27

Instrument :

MSVOA_L

ClientSampleId :

SITE-D-DUPDL

Tot Ion: 91 Resp: 1962740

Ion Ratio Lower Upper

91 100

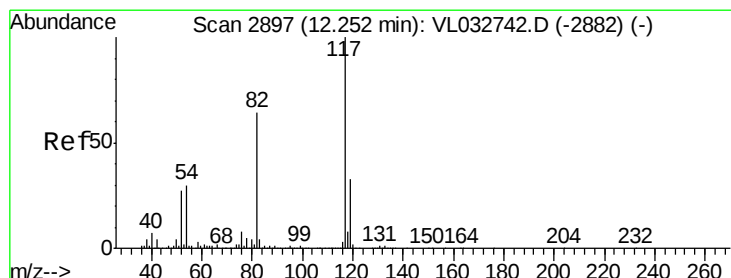
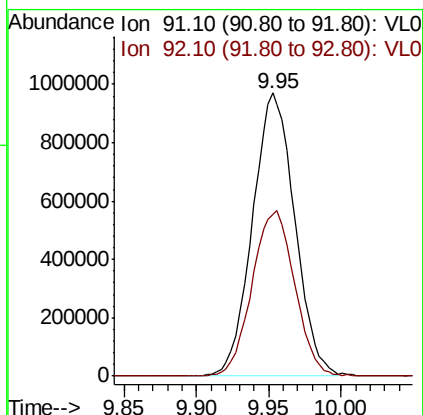
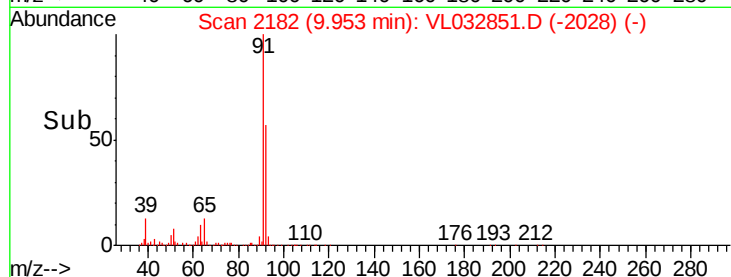
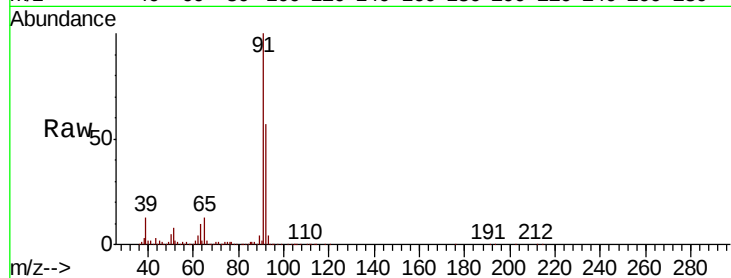
92 59.2 47.9 71.9

Manual Integrations

APPROVED

apatel

12/4/2018 4:11:02 PM



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.25 min Scan# 2896

Delta R.T. -0.00 min

Lab File: VL032851.D

Acq: 30 Nov 2018 16:27

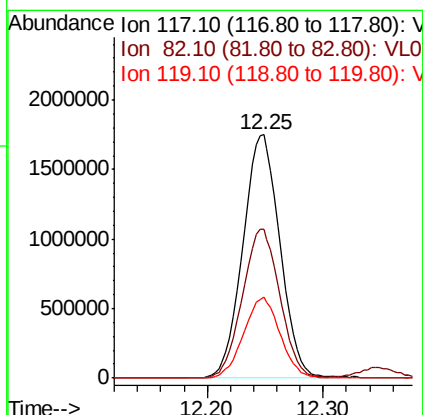
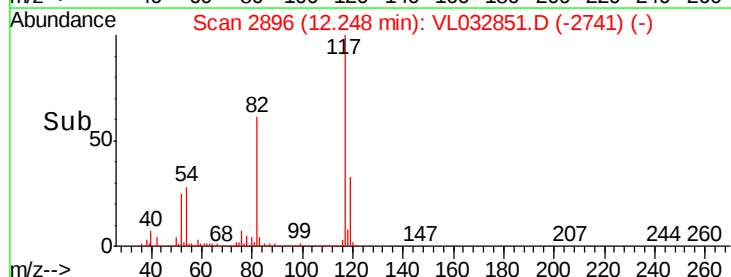
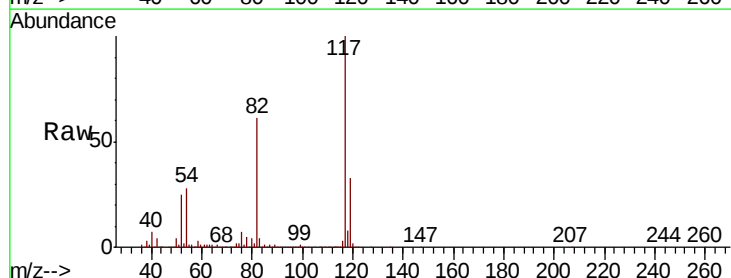
Tgt Ion: 117 Resp: 3885985

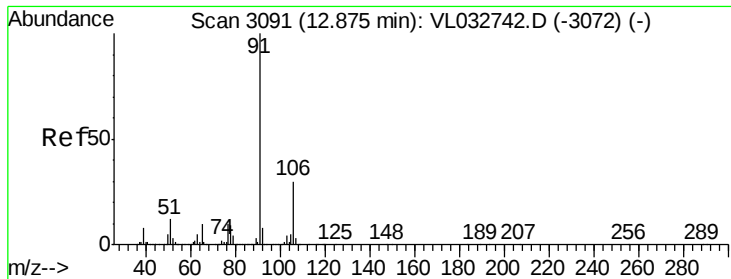
Ion Ratio Lower Upper

117 100

82 62.0 51.0 76.6

119 32.9 28.0 42.0





#58

Ethyl Benzene

Concen: 0.776 ppbv

RT: 12.87 min Scan# 3090

Delta R.T. -0.00 min

Lab File: VL032851.D

Acq: 30 Nov 2018 16:27

Instrument :

MSVOA_L

ClientSampleId :

SITE-D-DUPDL

Tot Ion: 91 Resp: 362905

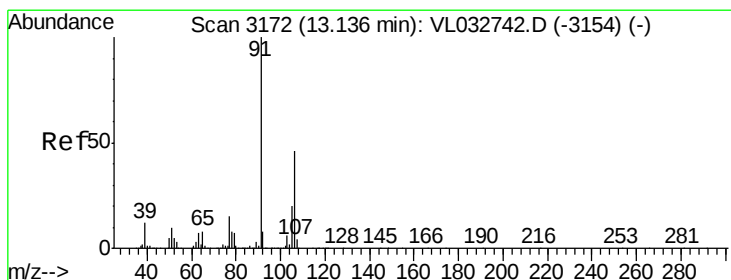
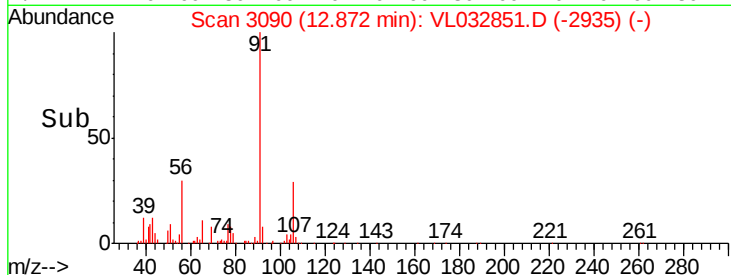
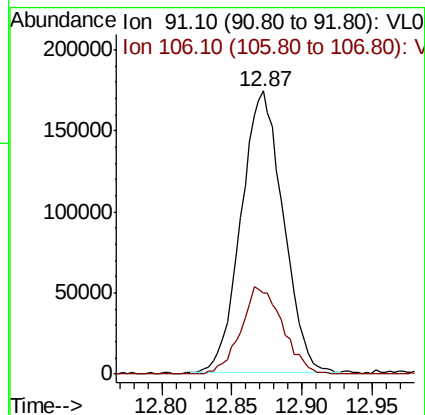
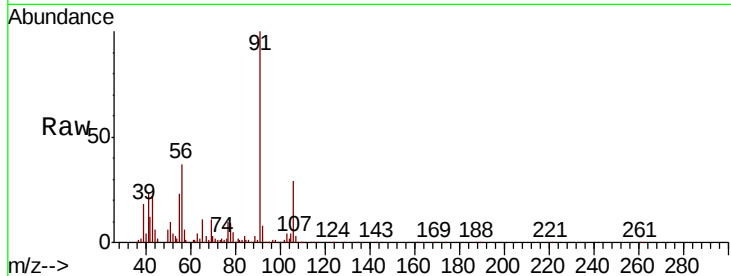
Ion Ratio Lower Upper

91 100

106 29.0 23.6 35.4

Manual Integrations
APPROVED

apatel
12/4/2018 4:11:02 PM



#59

m/p-Xylene

Concen: 2.479 ppbv

RT: 13.13 min Scan# 3169

Delta R.T. -0.01 min

Lab File: VL032851.D

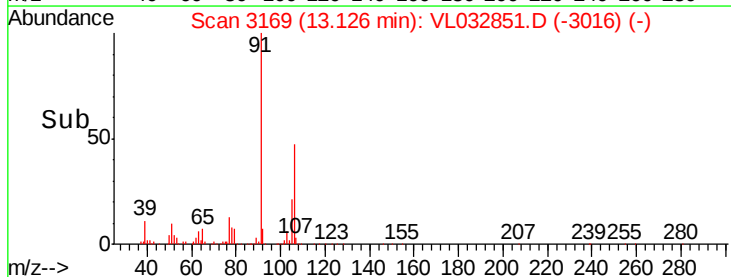
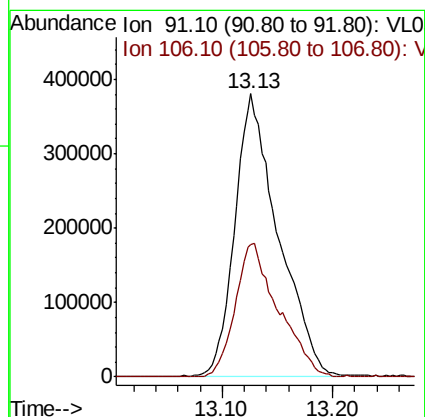
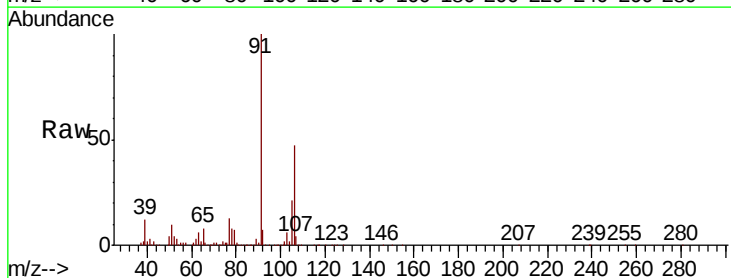
Acq: 30 Nov 2018 16:27

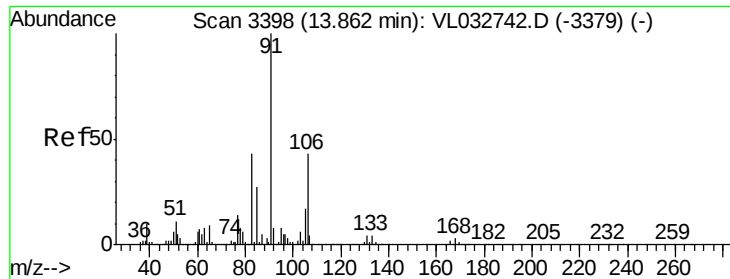
Tgt Ion: 91 Resp: 1032072

Ion Ratio Lower Upper

91 100

106 47.3 36.1 54.1





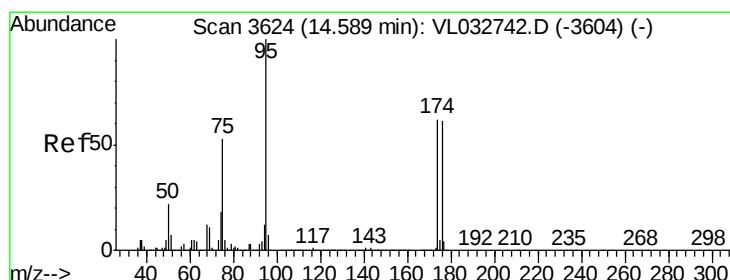
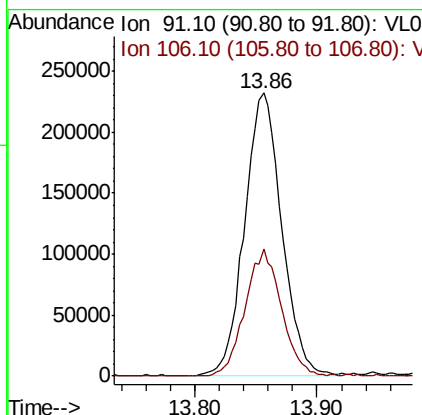
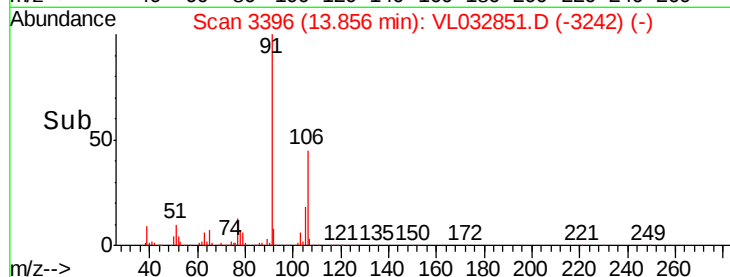
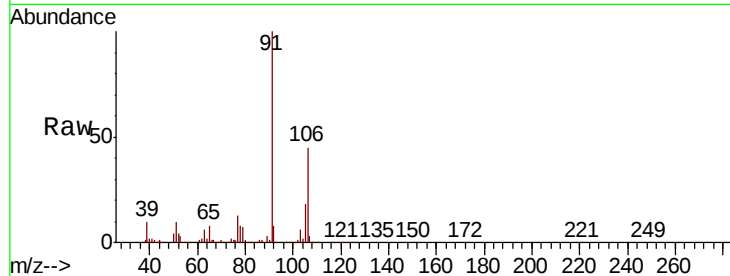
#60
o-Xylene
Concen: 1.156 ppbv
RT: 13.86 min Scan# 3396
Delta R.T. -0.01 min
Lab File: VL032851.D
Acq: 30 Nov 2018 16:27

Instrument :
MSVOA_L
ClientSampled :
SITE-D-DUPDL

Tot Ion: 91 Resp: 484109
Ion Ratio Lower Upper
91 100
106 44.1 21.9 65.7

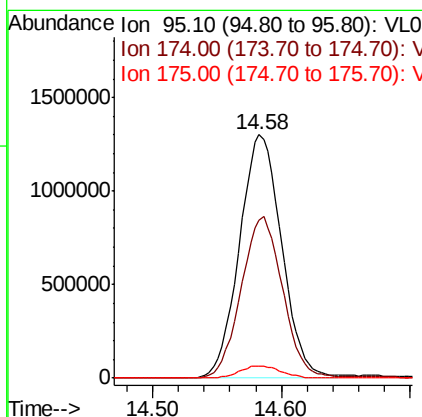
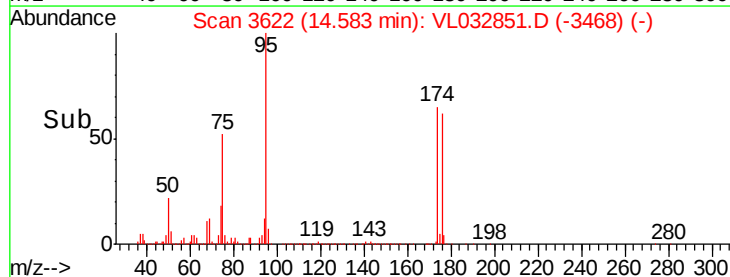
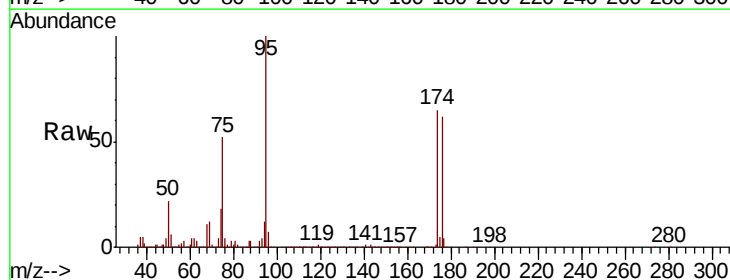
Manual Integrations
APPROVED

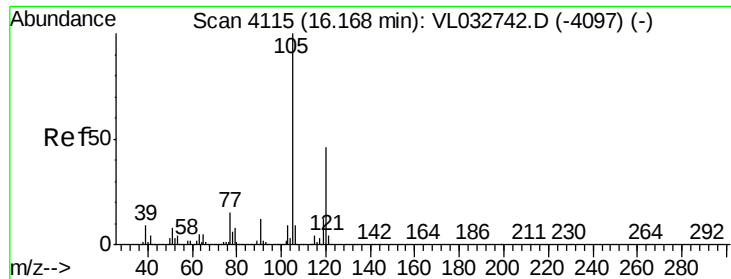
apatel
12/4/2018 4:11:02 PM



#68
1-Bromo-4-Fluorobenzene
Concen: 10.156 ppbv
RT: 14.58 min Scan# 3622
Delta R.T. -0.01 min
Lab File: VL032851.D
Acq: 30 Nov 2018 16:27

Tgt Ion: 95 Resp: 2951810
Ion Ratio Lower Upper
95 100
174 66.6 50.7 76.1
175 5.0 3.8 5.6





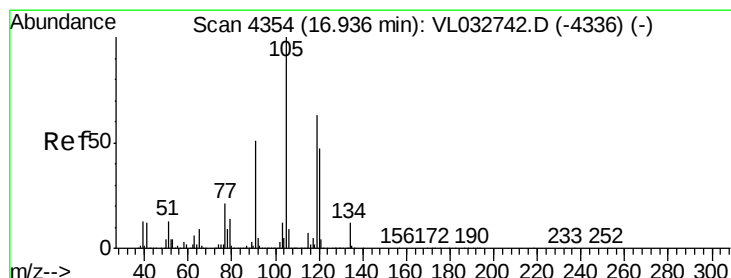
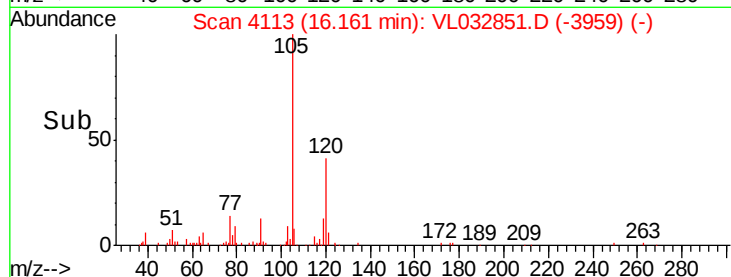
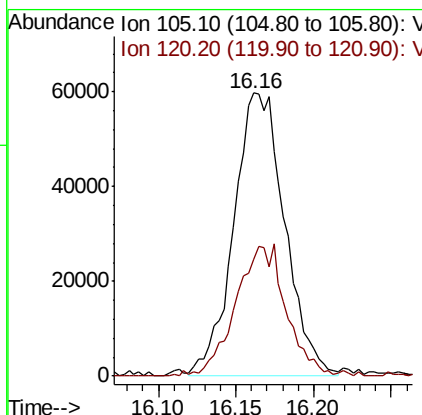
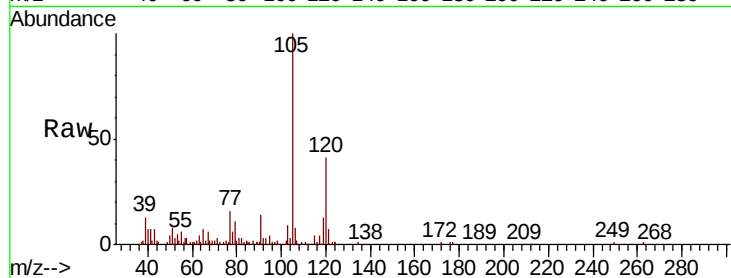
#73
 1,3,5-Trimethylbenzene
 Concen: 0.304 ppbv m
 RT: 16.16 min Scan# 4113
 Delta R.T. -0.01 min
 Lab File: VL032851.D
 Acq: 30 Nov 2018 16:27

Instrument :
 MSVOA_L
 ClientSampleId :
 SITE-D-DUPDL

Tot Ion	Ratio	Lower	Upper
105	100		
120	41.3	36.6	55.0

Manual Integrations
 APPROVED

apatel
 12/4/2018 4:11:02 PM



#74
 1,2,4-Trimethylbenzene
 Concen: 0.532 ppbv
 RT: 16.94 min Scan# 4354
 Delta R.T. 0.00 min
 Lab File: VL032851.D
 Acq: 30 Nov 2018 16:27

Tgt Ion	Ratio	Lower	Upper
105	100		
120	44.1	37.6	56.4
91	12.4	42.5	63.7#
77	14.8	17.4	26.2#

