

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL112018\
 Data File : VL032779.D
 Acq On : 20 Nov 2018 15:32
 Operator : SY/AP
 Sample : J5961-03 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Manual Integrations
 APPROVED

MMDadoda
 11/26/2018 9:18:41 AM

Quant Time: Nov 21 21:18:31 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 14 07:00:23 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	1436776	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3742160	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.26	117	3552111	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.60	95	2853980	10.74	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	107.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
13) Ethanol	3.68	45	14206m	0.951	ppbv	
15) Acetone	3.92	43	139098	1.060	ppbv	94
26) Hexane	5.79	57	156726	1.151	ppbv #	42
27) Carbon Disulfide	4.64	76	181235	1.050	ppbv	96
29) Chloroform	5.85	83	30823	0.127	ppbv	84
38) Trichloroethene	7.97	130	127628	1.058	ppbv	89
52) Tetrachloroethene	11.44	164	33439388	322.581	ppbv	88
53) Toluene	9.96	91	164864	0.530	ppbv	99
58) Ethyl Benzene	12.89	91	104968	0.246	ppbv	96
59) m/p-Xylene	13.15	91	466230	1.225	ppbv	99
60) o-Xylene	13.88	91	220776m	0.577	ppbv	
72) 4-Ethyltoluene	16.02	105	114450	0.273	ppbv #	93
73) 1,3,5-Trimethylbenzene	16.17	105	108067m	0.264	ppbv	
74) 1,2,4-Trimethylbenzene	16.95	105	367402	0.837	ppbv #	70

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

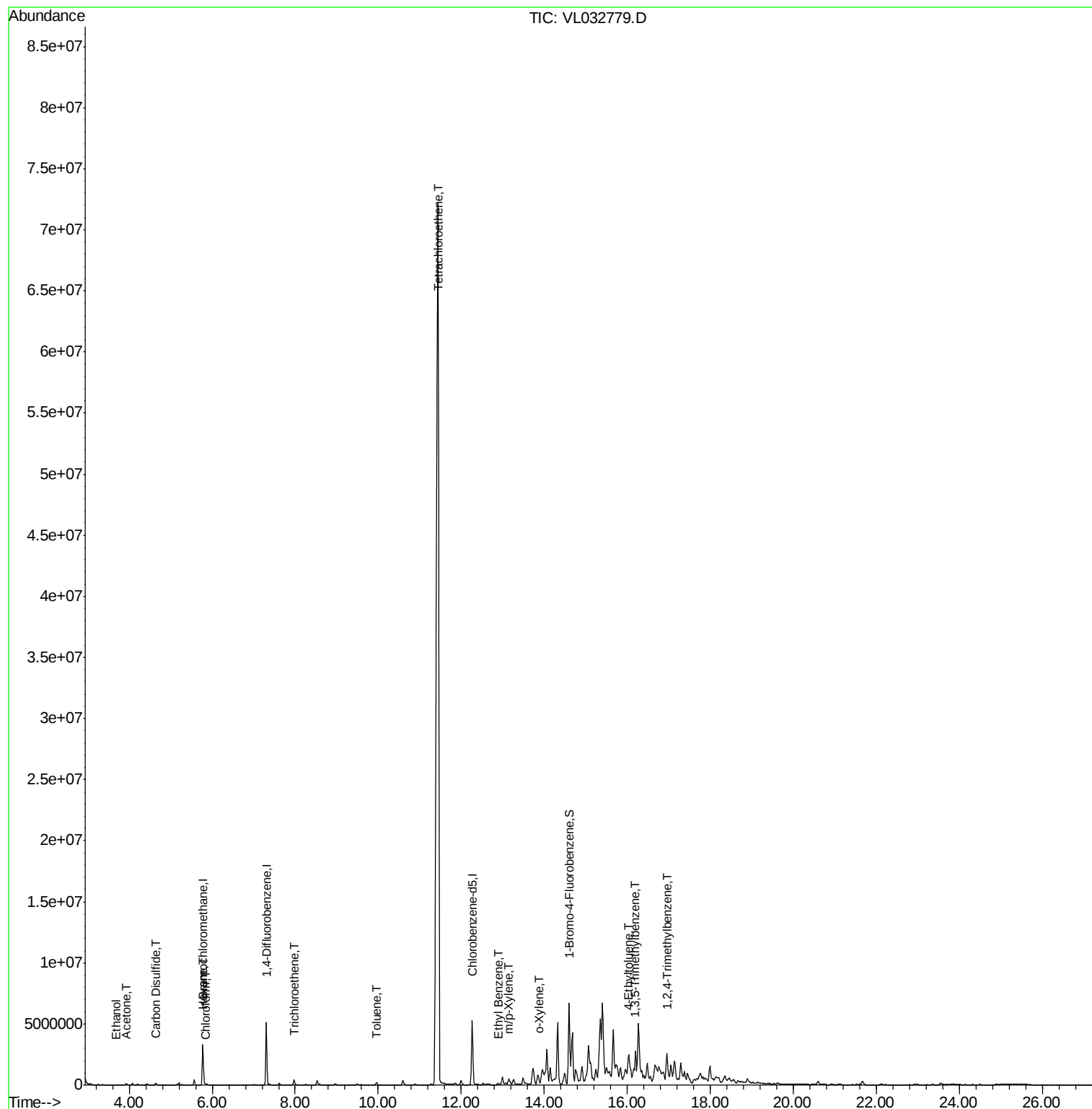
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL112018\
Data File : VL032779.D
Acq On : 20 Nov 2018 15:32
Operator : SY/AP
Sample : J5961-03 10X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

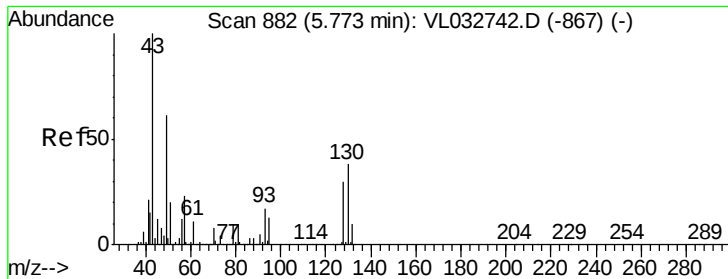
Instrument :
MSVOA_L
ClientSampleId :
SV1

Manual Integrations
APPROVED

MMDadoda
11/26/2018 9:18:41 AM

Quant Time: Nov 21 21:18:31 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# 882

Delta R.T. 0.00 min

Lab File: VL032779.D

Acq: 20 Nov 2018 15:32

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tot Ion: 49 Resp: 1436776

Ion Ratio Lower Upper

49 100

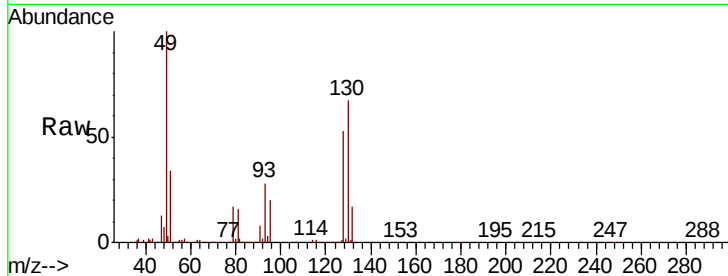
128 53.2 24.9 74.6

130 68.6 31.4 94.2

Manual Integrations
APPROVED

MMDadoda

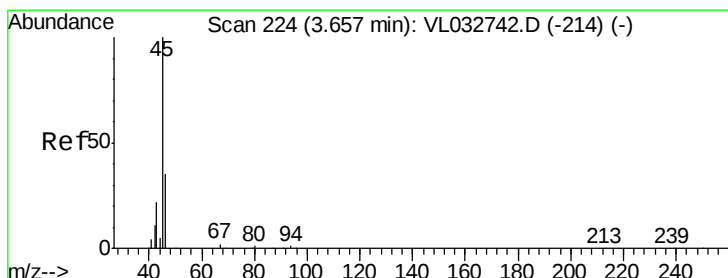
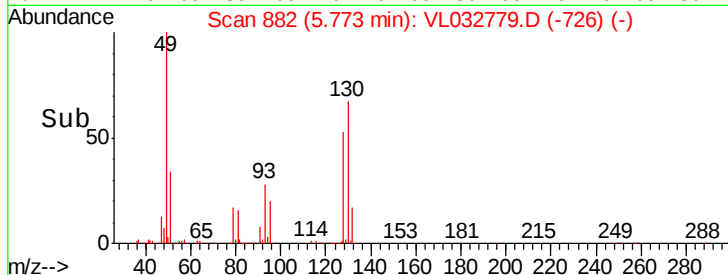
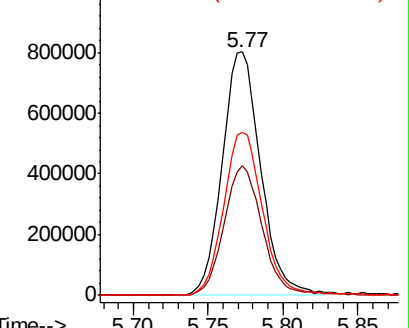
11/26/2018 9:18:41 AM



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



#13

Ethanol

Concen: 0.951 ppbv m

RT: 3.68 min Scan# 231

Delta R.T. 0.02 min

Lab File: VL032779.D

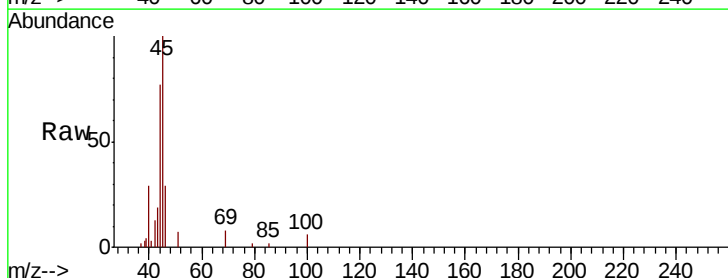
Acq: 20 Nov 2018 15:32

Tgt Ion: 45 Resp: 14206

Ion Ratio Lower Upper

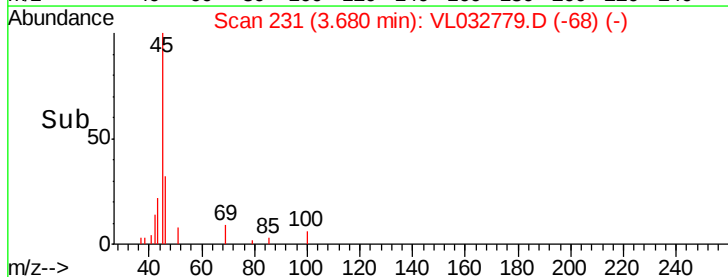
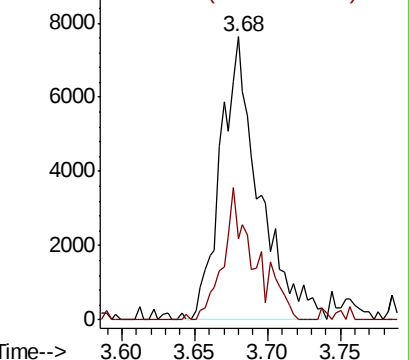
45 100

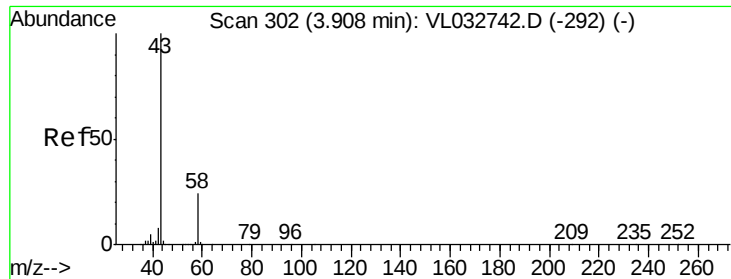
46 0.0 14.5 57.9#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





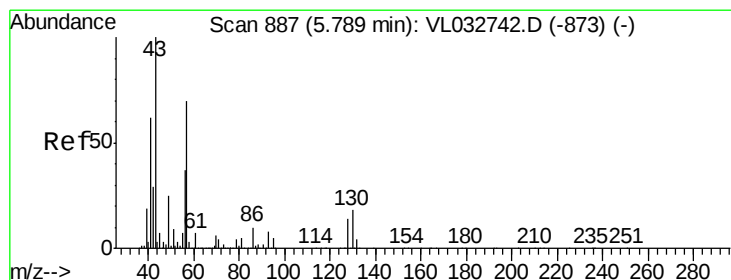
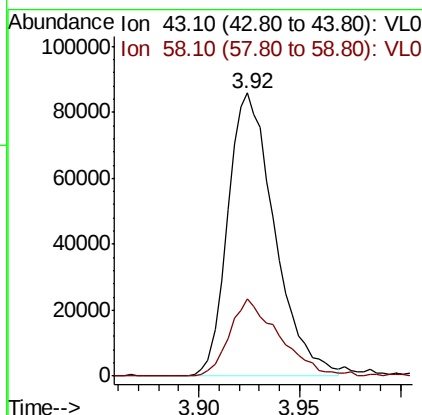
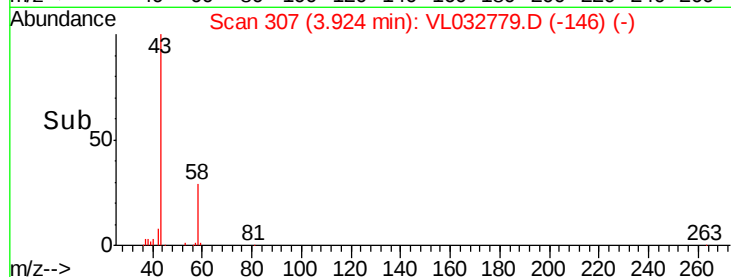
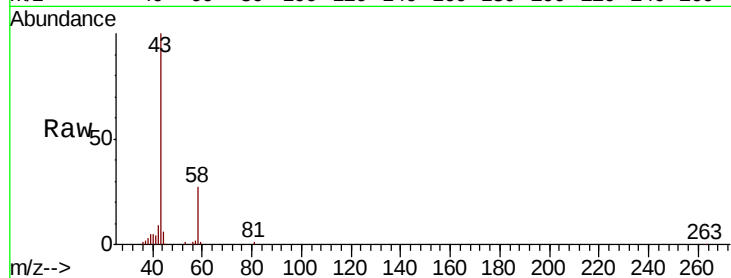
#15
Acetone
Concen: 1.060 ppbv
RT: 3.92 min Scan# 307
Delta R.T. 0.02 min
Lab File: VL032779.D
Acq: 20 Nov 2018 15:32

Instrument :
MSVOA_L
ClientSampled :
SV1

Tot Ion: 43 Resp: 139098
Ion Ratio Lower Upper
43 100
58 29.5 21.1 31.7

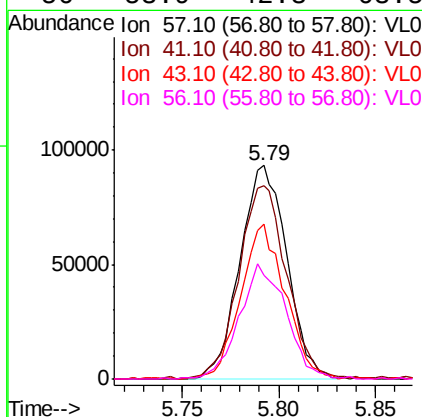
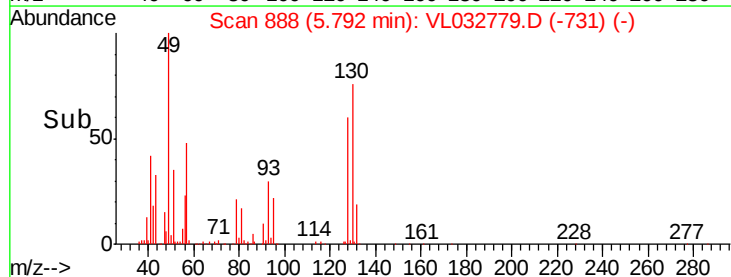
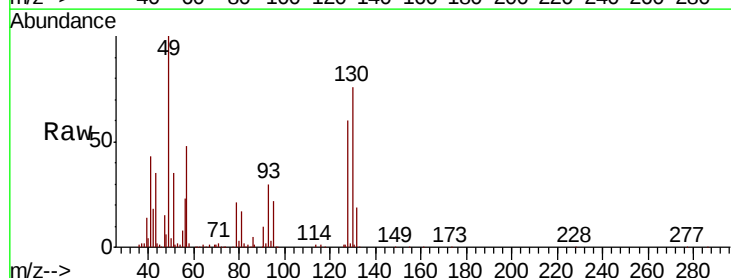
Manual Integrations
APPROVED

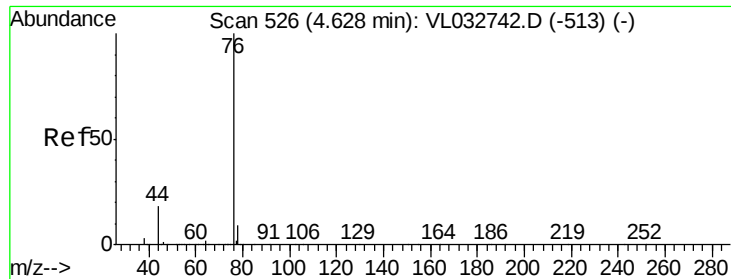
MMDadoda
11/26/2018 9:18:41 AM



#26
Hexane
Concen: 1.151 ppbv
RT: 5.79 min Scan# 888
Delta R.T. 0.00 min
Lab File: VL032779.D
Acq: 20 Nov 2018 15:32

Tgt Ion: 57 Resp: 156726
Ion Ratio Lower Upper
57 100
41 93.8 70.3 105.5
43 70.3 174.0 261.0#
56 53.9 42.3 63.5





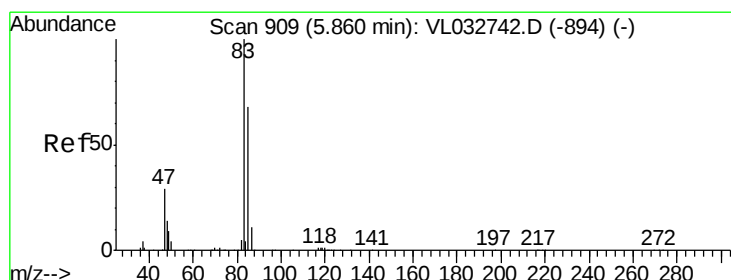
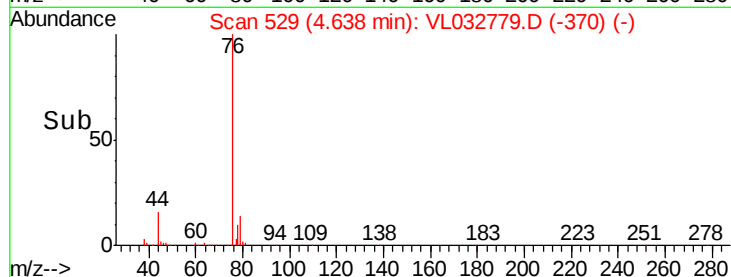
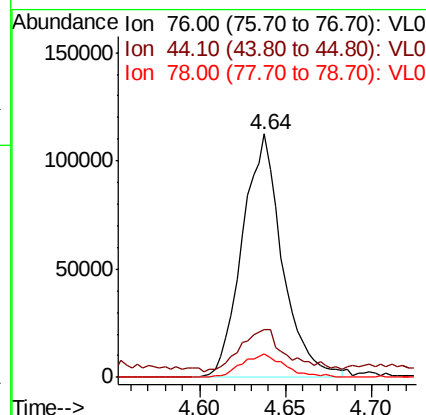
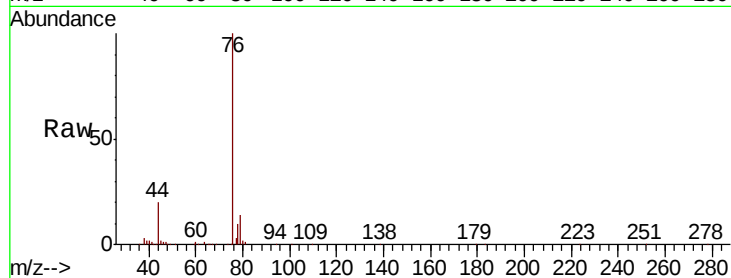
#27
Carbon Disulfide
Concen: 1.050 ppbv
RT: 4.64 min Scan# 529
Delta R.T. 0.01 min
Lab File: VL032779.D
Acq: 20 Nov 2018 15:32

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tot Ion	Ratio	Lower	Upper
76	100		
44	19.9	14.4	21.6
78	10.3	7.7	11.5

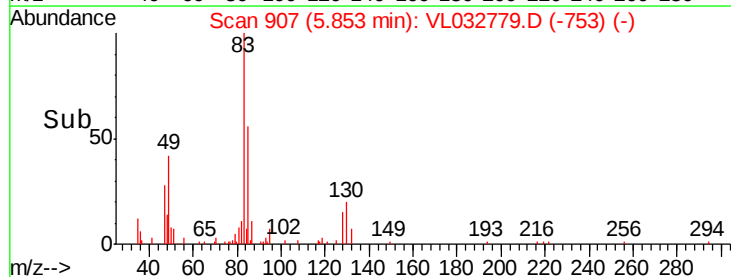
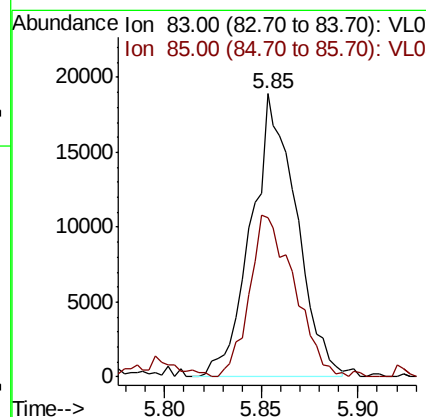
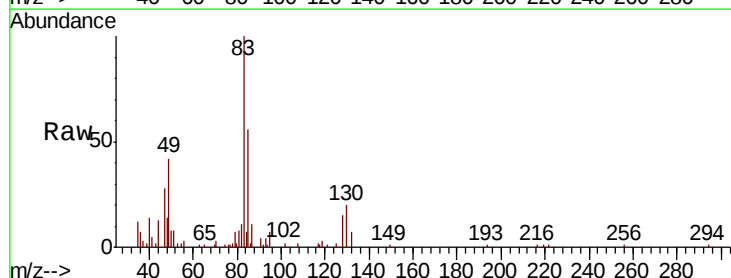
Manual Integrations
APPROVED

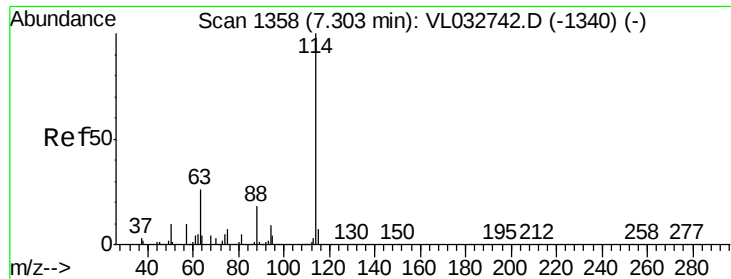
MMDadoda
11/26/2018 9:18:41 AM



#29
Chloroform
Concen: 0.127 ppbv
RT: 5.85 min Scan# 907
Delta R.T. -0.01 min
Lab File: VL032779.D
Acq: 20 Nov 2018 15:32

Tgt Ion	Ratio	Lower	Upper
83	100		
85	55.1	54.2	81.4





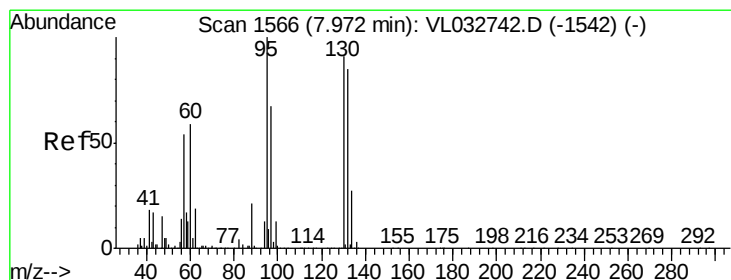
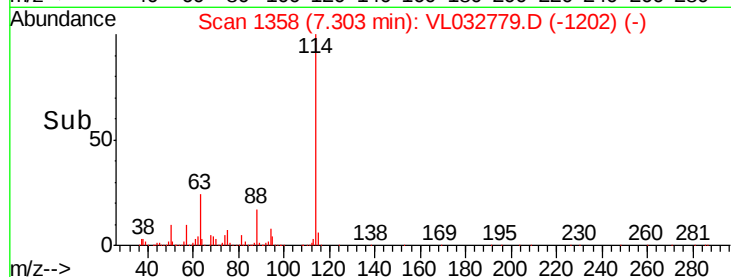
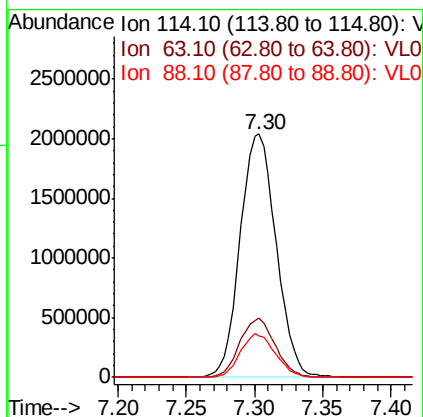
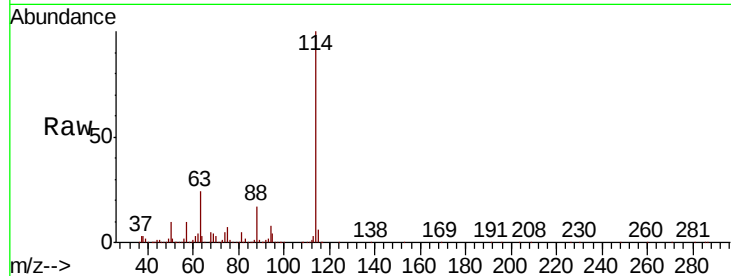
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.30 min Scan# 1358
 Delta R.T. 0.00 min
 Lab File: VL032779.D
 Acq: 20 Nov 2018 15:32

Instrument :
 MSVOA_L
 ClientSampled :
 SV1

Tot Ion:114 Resp: 3742160
 Ion Ratio Lower Upper
 114 100
 63 23.9 20.9 31.3
 88 17.6 14.4 21.6

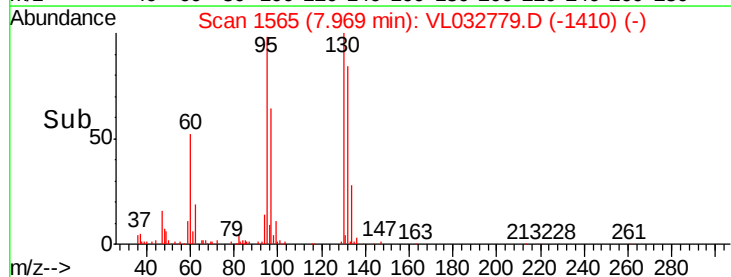
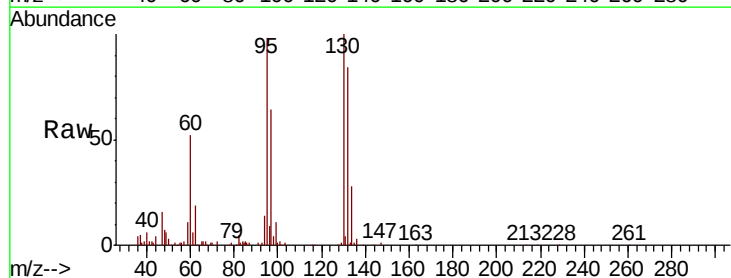
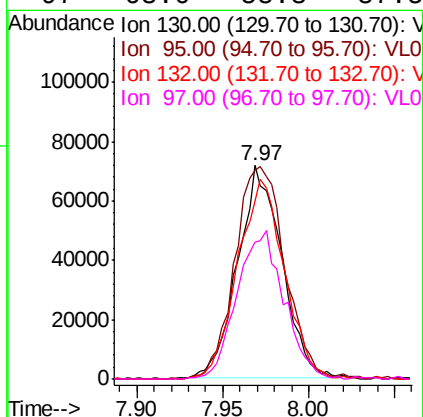
Manual Integrations
 APPROVED

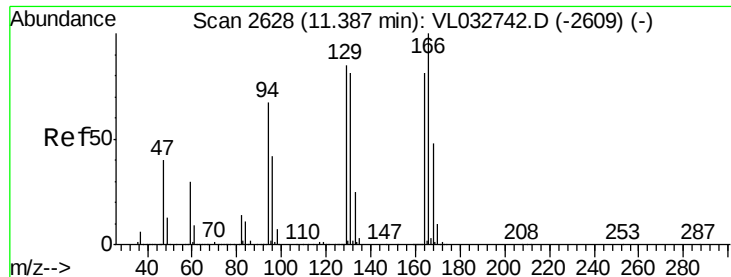
MMDadoda
 11/26/2018 9:18:41 AM



#38
 Trichloroethene
 Concen: 1.058 ppbv
 RT: 7.97 min Scan# 1565
 Delta R.T. -0.00 min
 Lab File: VL032779.D
 Acq: 20 Nov 2018 15:32

Tgt Ion:130 Resp: 127628
 Ion Ratio Lower Upper
 130 100
 95 97.6 87.7 131.5
 132 83.4 74.6 111.8
 97 63.0 58.3 87.5





#52

Tetrachloroethene

Concen: 322.581 ppbv

RT: 11.44 min Scan# 2645

Delta R.T. 0.05 min

Lab File: VL032779.D

Acq: 20 Nov 2018 15:32

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tot Ion:164 Resp:33439388

Ion Ratio Lower Upper

164 100

166 106.6 99.3 148.9

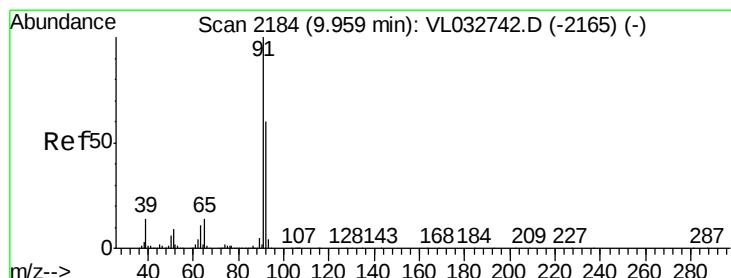
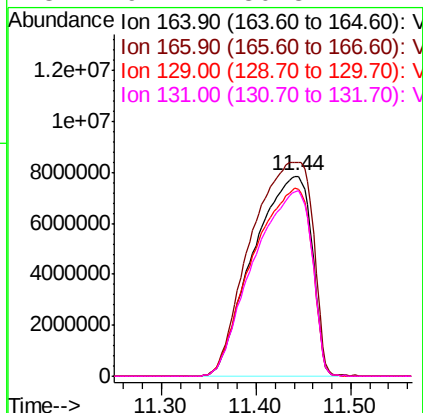
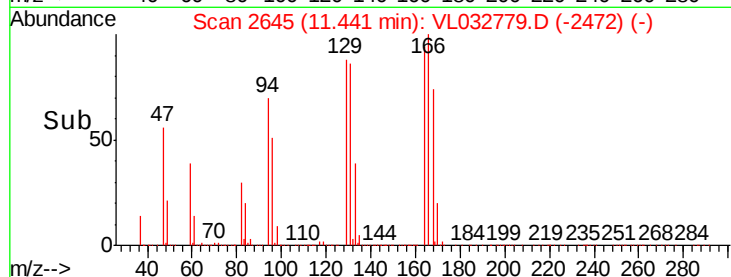
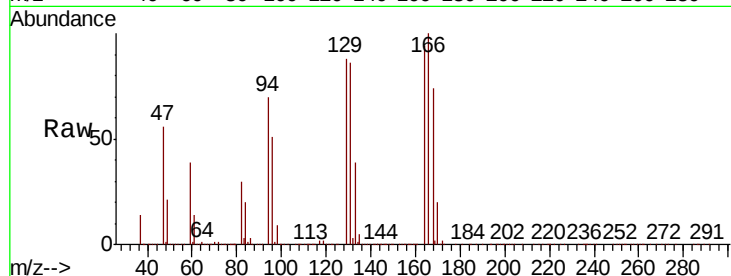
129 94.0 83.9 125.9

131 92.1 80.8 121.2

Manual Integrations
APPROVED

MMDadoda

11/26/2018 9:18:41 AM



#53

Toluene

Concen: 0.530 ppbv

RT: 9.96 min Scan# 2185

Delta R.T. 0.00 min

Lab File: VL032779.D

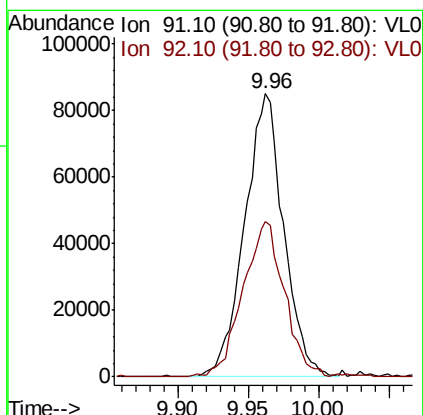
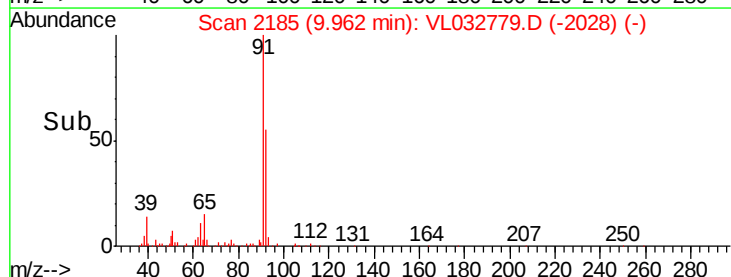
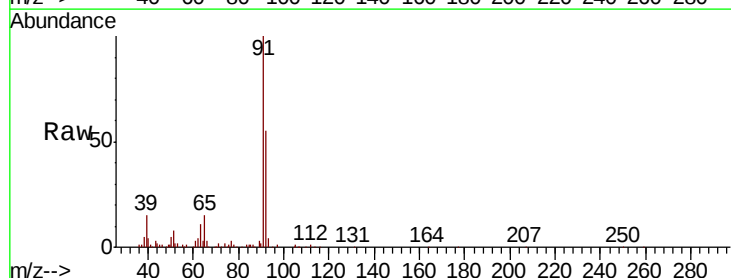
Acq: 20 Nov 2018 15:32

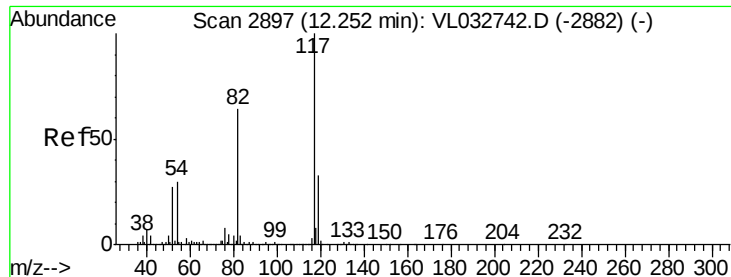
Tgt Ion: 91 Resp: 164864

Ion Ratio Lower Upper

91 100

92 59.0 47.9 71.9





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.26 min Scan# 2900

Delta R.T. 0.01 min

Lab File: VL032779.D

Acq: 20 Nov 2018 15:32

Instrument :

MSVOA_L

ClientSampleId :

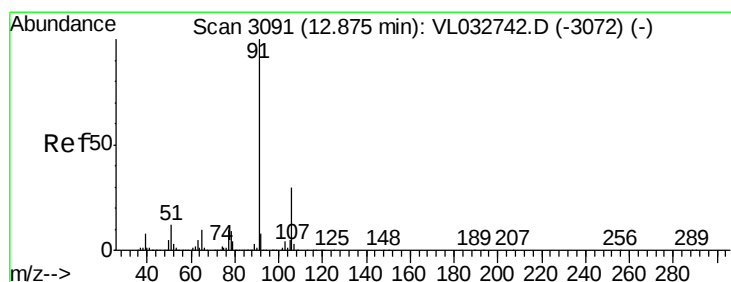
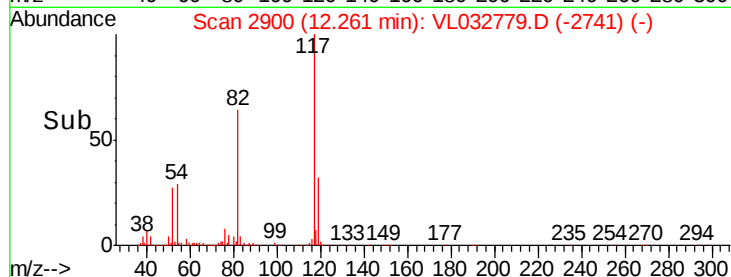
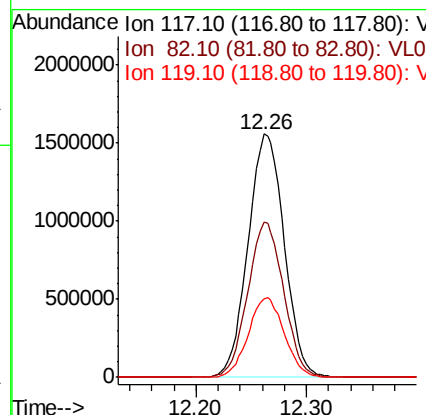
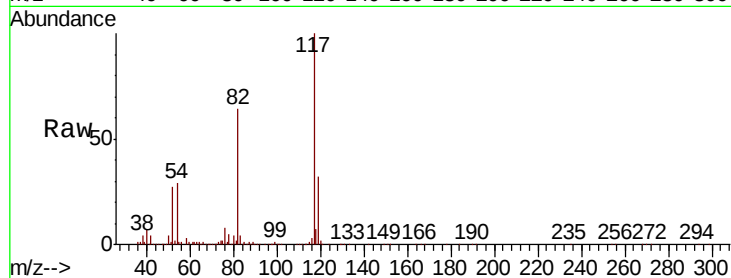
SV1

Tot Ion:117 Resp: 3552111

Ion	Ratio	Lower	Upper
117	100		
82	63.6	51.0	76.6
119	32.6	28.0	42.0

Manual Integrations
APPROVED

MMDadoda
11/26/2018 9:18:41 AM



#58

Ethyl Benzene

Concen: 0.246 ppbv

RT: 12.89 min Scan# 3095

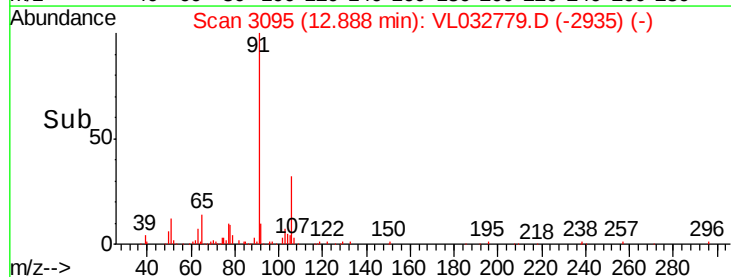
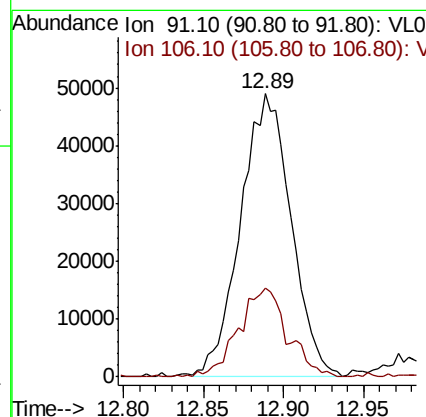
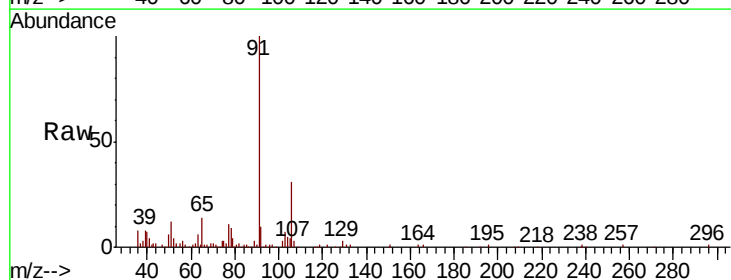
Delta R.T. 0.01 min

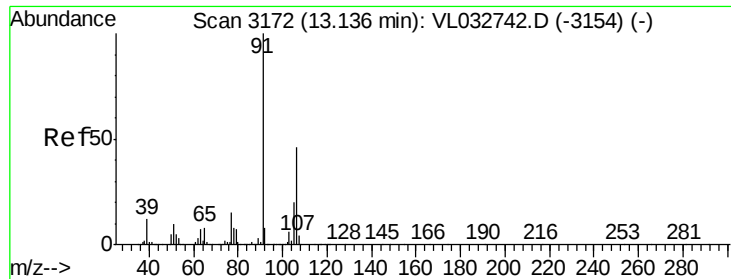
Lab File: VL032779.D

Acq: 20 Nov 2018 15:32

Tgt Ion: 91 Resp: 104968

Ion	Ratio	Lower	Upper
91	100		
106	31.5	23.6	35.4





#59

m/p-Xylene

Concen: 1.225 ppbv

RT: 13.15 min Scan# 3175

Delta R.T. 0.01 min

Lab File: VL032779.D

Acq: 20 Nov 2018 15:32

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tot Ion: 91 Resp: 466230

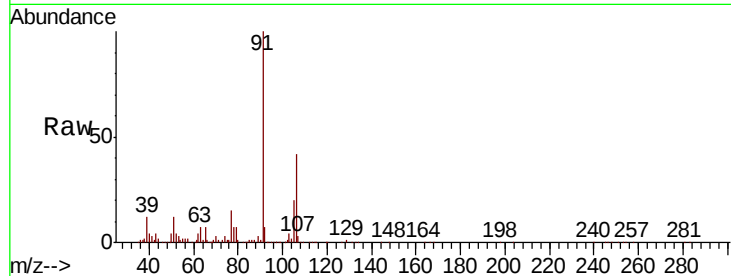
Ion Ratio Lower Upper

91 100

106 44.6 36.1 54.1

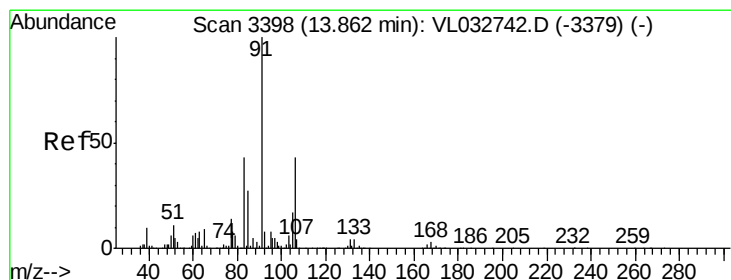
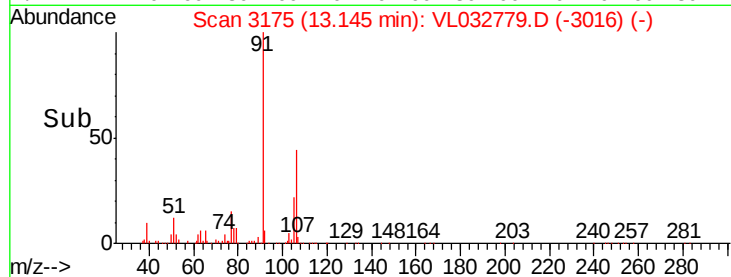
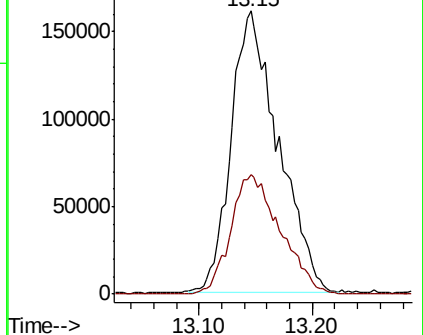
Manual Integrations
APPROVED

MMDadoda
11/26/2018 9:18:41 AM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 0.577 ppbv m

RT: 13.88 min Scan# 3402

Delta R.T. 0.01 min

Lab File: VL032779.D

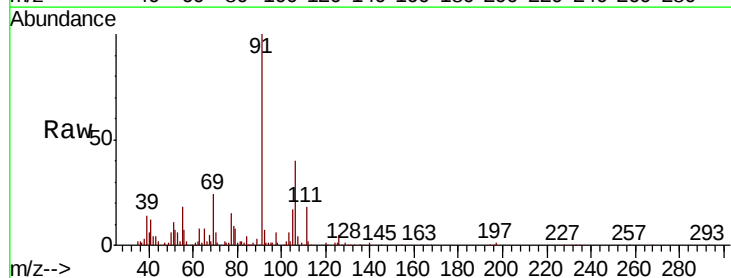
Acq: 20 Nov 2018 15:32

Tgt Ion: 91 Resp: 220776

Ion Ratio Lower Upper

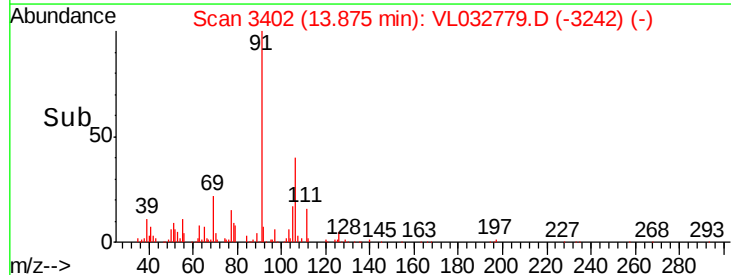
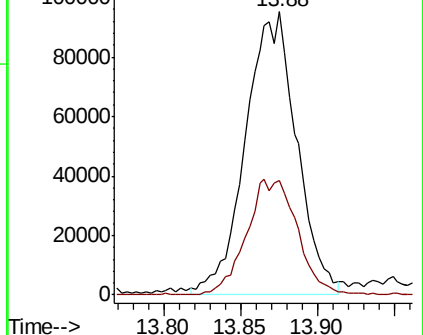
91 100

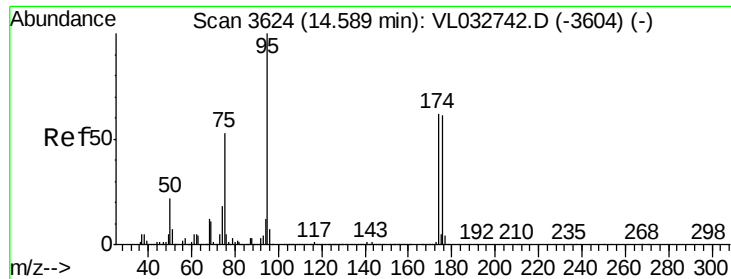
106 0.0 21.9 65.7#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 10.742 ppbv

RT: 14.60 min Scan# 3627

Delta R.T. 0.01 min

Lab File: VL032779.D

Acq: 20 Nov 2018 15:32

Instrument :

MSVOA_L

ClientSampled :

SV1

Tot Ion: 95 Resp: 2853980

Ion Ratio Lower Upper

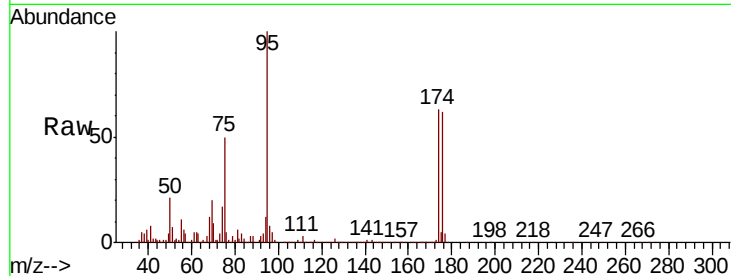
95 100

174 65.8 50.7 76.1

175 4.9 3.8 5.6

Manual Integrations
APPROVED

MMDadoda
11/26/2018 9:18:41 AM

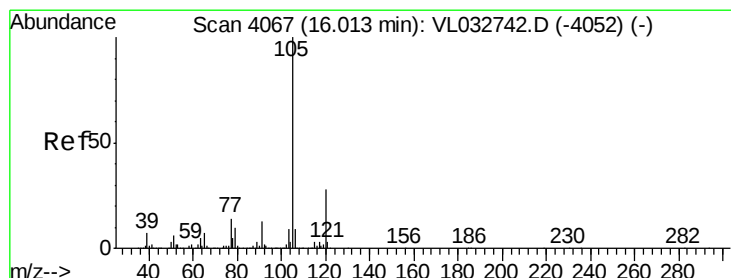
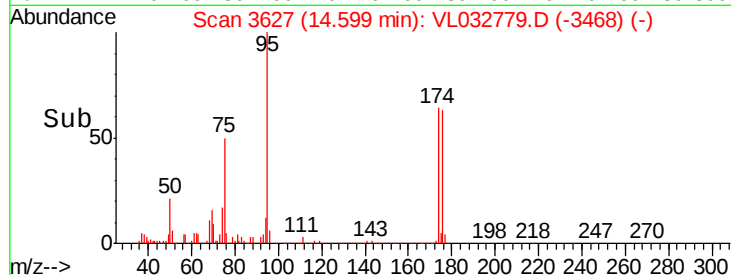
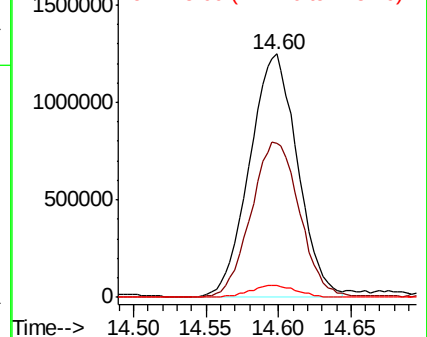


Abundance

Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V



#72

4-Ethyltoluene

Concen: 0.273 ppbv

RT: 16.02 min Scan# 4070

Delta R.T. 0.01 min

Lab File: VL032779.D

Acq: 20 Nov 2018 15:32

Tgt Ion:105 Resp: 114450

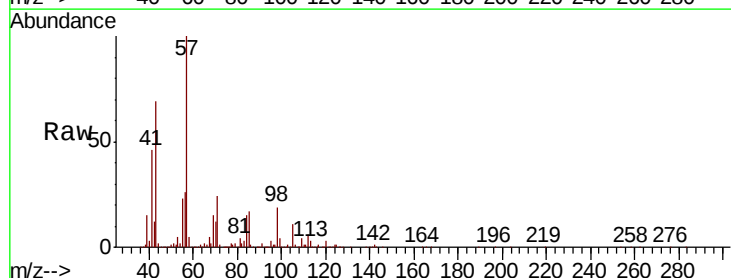
Ion Ratio Lower Upper

105 100

120 30.7 22.9 34.3

91 17.4 10.6 15.8#

77 17.9 11.4 17.2#



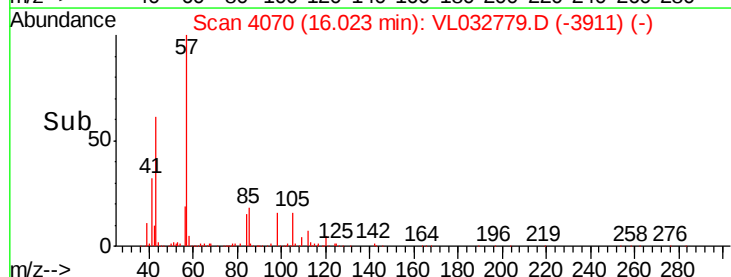
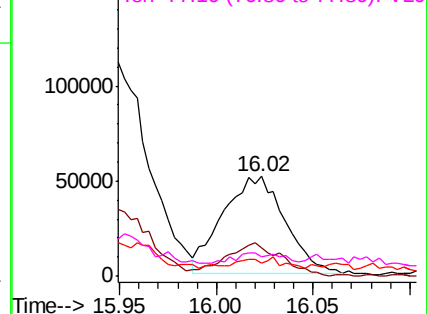
Abundance

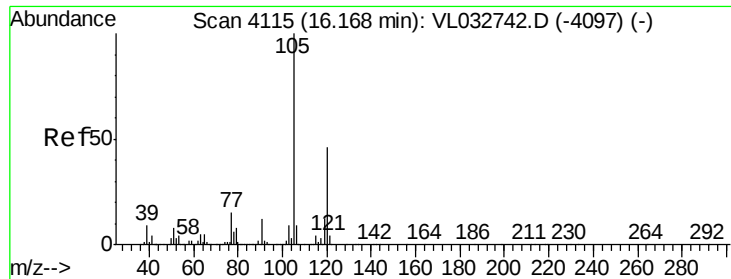
Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#73

1,3,5-Trimethylbenzene

Concen: 0.264 ppbv m

RT: 16.17 min Scan# 4117

Delta R.T. 0.01 min

Lab File: VL032779.D

Acq: 20 Nov 2018 15:32

Instrument :

MSVOA_L

ClientSampled :

SV1

Tot Ion:105 Resp: 108067

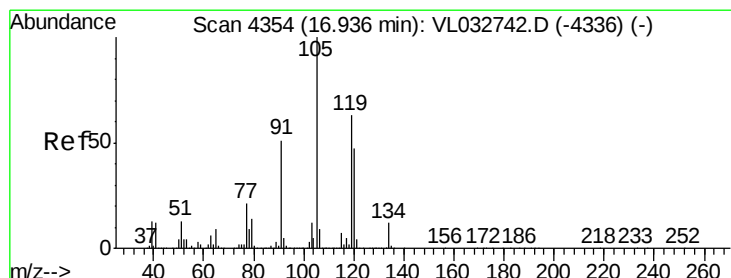
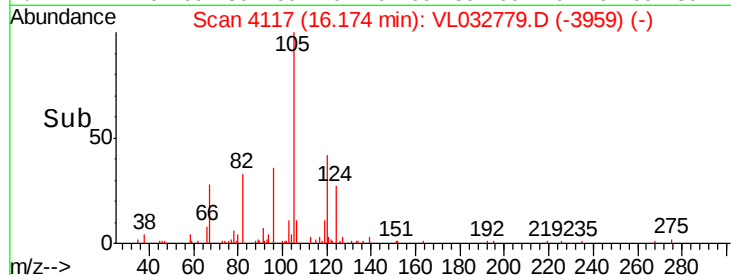
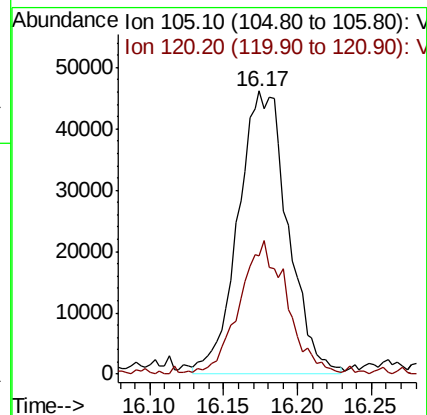
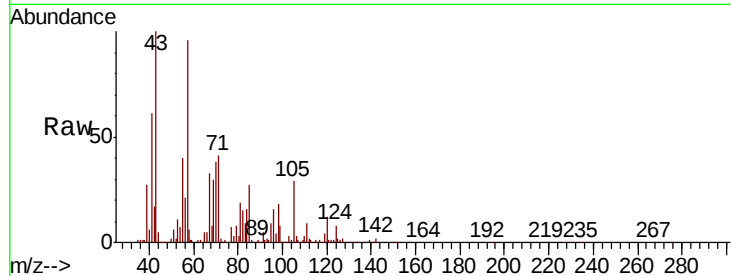
Ion Ratio Lower Upper

105 100

120 41.8 36.6 55.0

Manual Integrations
APPROVED

MMDadoda
11/26/2018 9:18:41 AM



#74

1,2,4-Trimethylbenzene

Concen: 0.837 ppbv

RT: 16.95 min Scan# 4357

Delta R.T. 0.01 min

Lab File: VL032779.D

Acq: 20 Nov 2018 15:32

Tgt Ion:105 Resp: 367402

Ion Ratio Lower Upper

105 100

120 44.0 37.6 56.4

91 10.3 42.5 63.7#

77 17.1 17.4 26.2#

