

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL092718\
 Data File : VL032562.D
 Acq On : 27 Sep 2018 23:25
 Operator : SY/AP
 Sample : J5094-01
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AA-1

Manual Integrations
 APPROVED

MMDadoda
 10/1/2018 11:57:45 AM

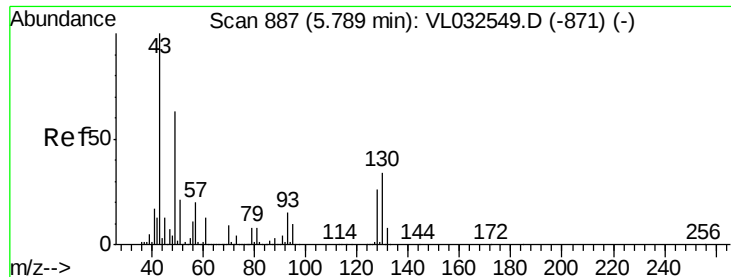
Quant Time: Sep 28 04:22:22 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL092418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Sep 28 04:22:22 2018
 QLast Update : Tue Sep 25 05:17:15 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.79	49	1276947	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.32	114	2857265	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.27	117	3005721	10.00	ppbv	-0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.61	95	2154284	9.50	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.09	85	30799	0.261	ppbv	100
3) Chlorodifluoromethane	3.03	51	178773	1.684	ppbv	100
4) Chloromethane	3.19	50	31037	0.501	ppbv	95
9) Propene	3.06	41	14512	0.315	ppbv	99
11) Trichlorofluoromethane	4.02	101	37765	0.269	ppbv	97
13) Ethanol	3.67	45	129130	9.324	ppbv	99
15) Acetone	3.92	43	671930	5.995	ppbv	99
20) Methylene Chloride	4.43	84	229642	4.231	ppbv	98
26) Hexane	5.80	57	224947	1.831	ppbv #	43
34) 2-Butanone	5.36	43	24820	0.146	ppbv #	90
35) Carbon Tetrachloride	7.16	117	15438m	0.078	ppbv	
36) Benzene	7.04	78	35599m	0.154	ppbv	
53) Toluene	9.98	91	595354	2.116	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.79 min Scan# 886

Delta R.T. -0.02 min

Lab File: VL032562.D

Acq: 27 Sep 2018 23:25

Instrument :

MSVOA_L

ClientSampled :

AA-1

Tgt Ion: 49 Resp: 1276947

Ion Ratio Lower Upper

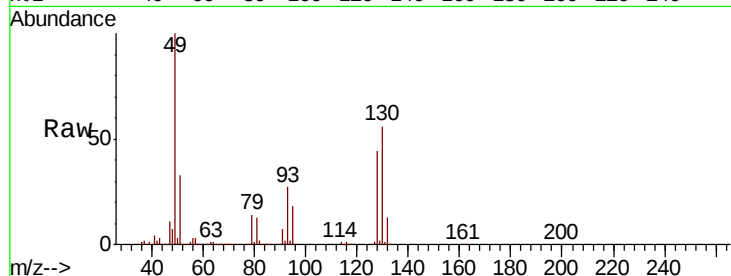
49 100

128 44.4 20.7 62.1

130 56.2 26.6 79.7

Manual Integrations
APPROVED

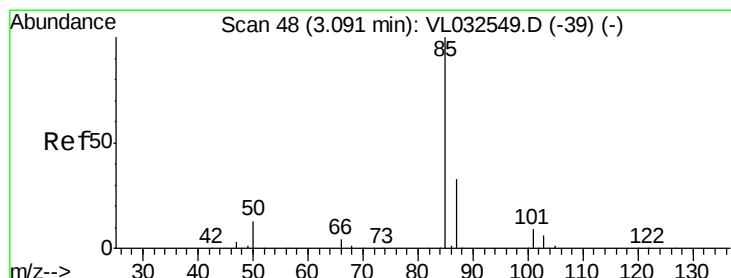
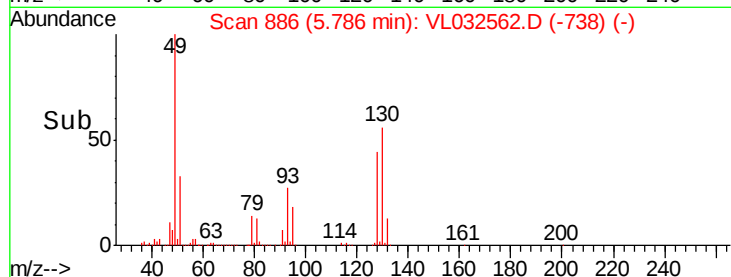
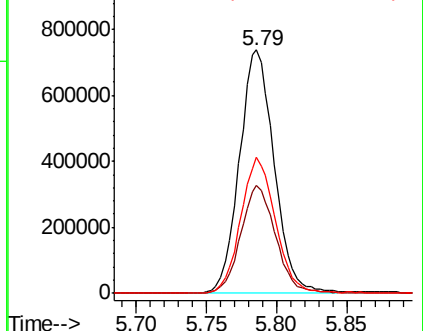
MMDadoda
10/1/2018 11:57:45 AM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.261 ppbv

RT: 3.09 min Scan# 48

Delta R.T. -0.02 min

Lab File: VL032562.D

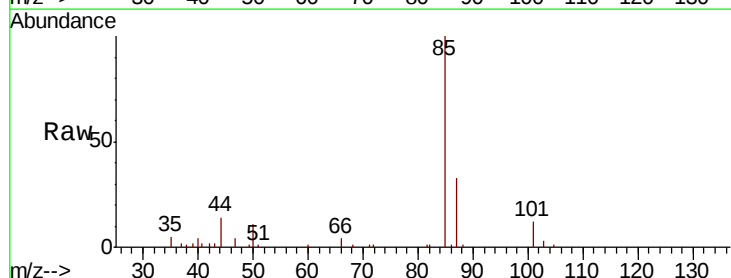
Acq: 27 Sep 2018 23:25

Tgt Ion: 85 Resp: 30799

Ion Ratio Lower Upper

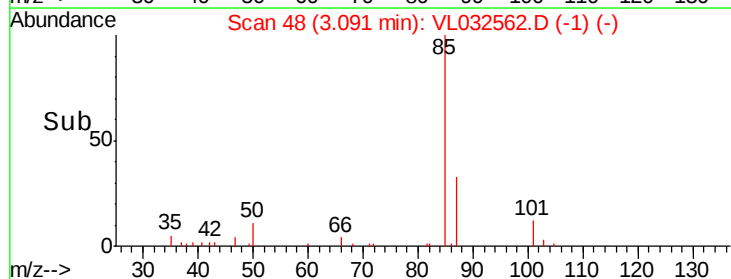
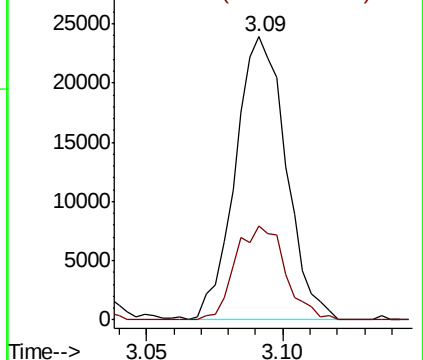
85 100

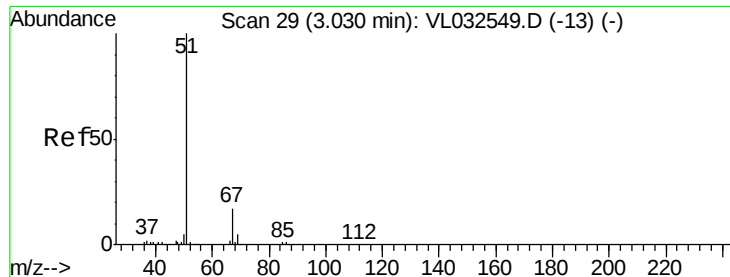
87 33.1 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





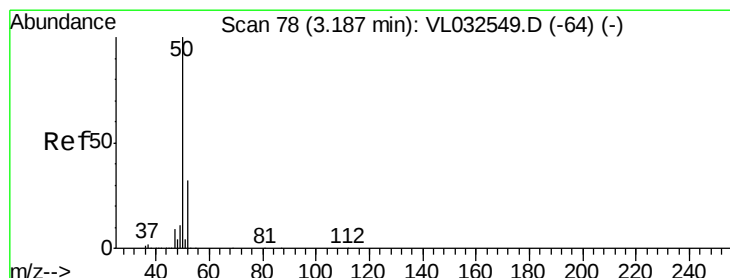
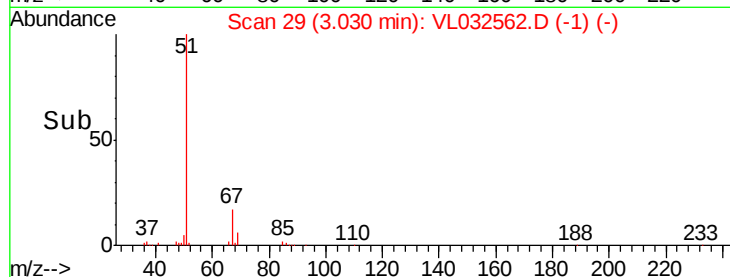
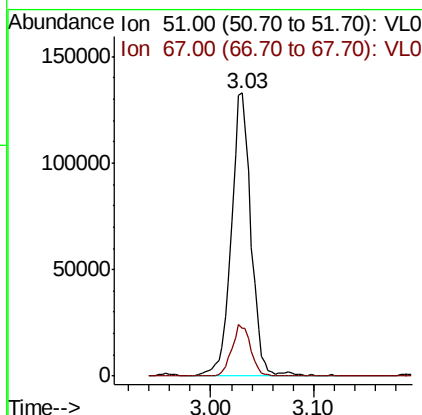
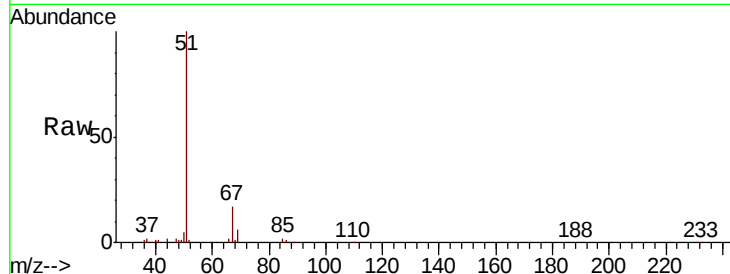
#3
Chlorodifluoromethane
Concen: 1.684 ppbv
RT: 3.03 min Scan# 29
Delta R.T. -0.01 min
Lab File: VL032562.D
Acq: 27 Sep 2018 23:25

Instrument :
MSVOA_L
ClientSampleId :
AA-1

Tgt Ion: 51 Resp: 178773
Ion Ratio Lower Upper
51 100
67 17.4 13.8 20.8

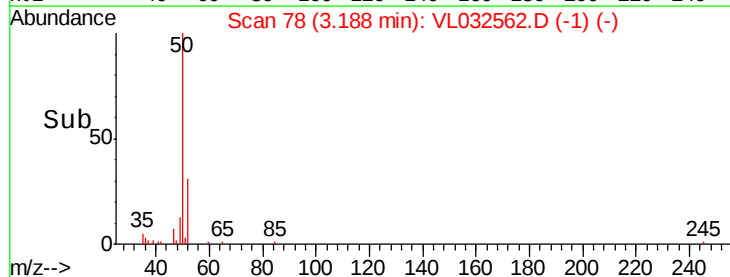
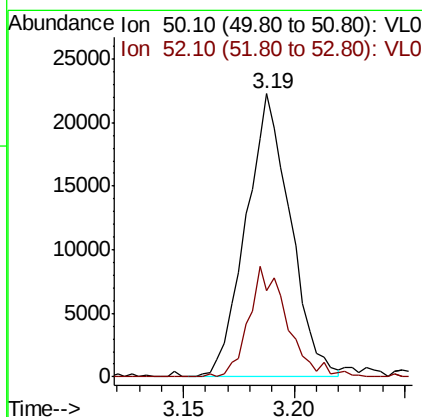
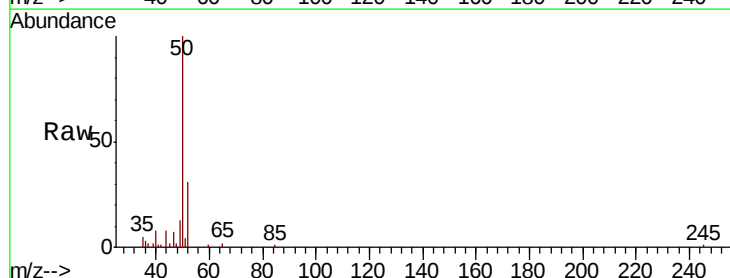
Manual Integrations
APPROVED

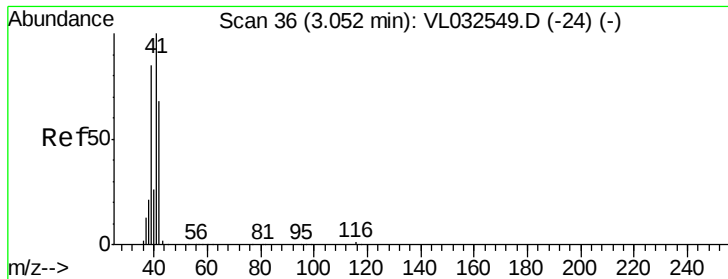
MMDadoda
10/1/2018 11:57:45 AM



#4
Chloromethane
Concen: 0.501 ppbv
RT: 3.19 min Scan# 78
Delta R.T. -0.01 min
Lab File: VL032562.D
Acq: 27 Sep 2018 23:25

Tgt Ion: 50 Resp: 31037
Ion Ratio Lower Upper
50 100
52 29.4 25.6 38.4





#9

Propene

Concen: 0.315 ppbv

RT: 3.06 min Scan# 39

Delta R.T. -0.01 min

Lab File: VL032562.D

Acq: 27 Sep 2018 23:25

Instrument :

MSVOA_L

ClientSampleId :

AA-1

Tgt Ion: 41 Resp: 14512

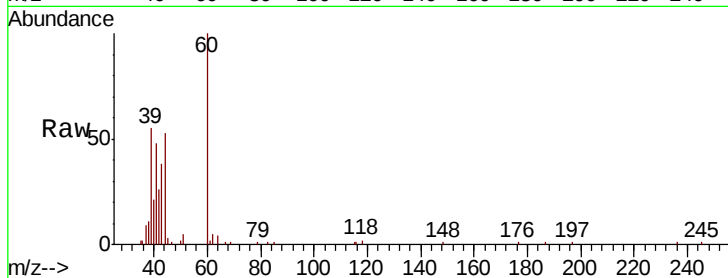
Ion Ratio Lower Upper

41 100

42 70.0 56.6 84.8

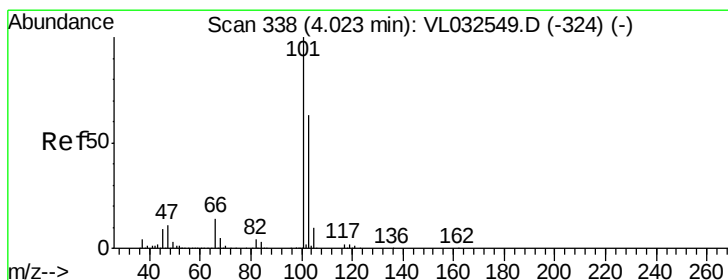
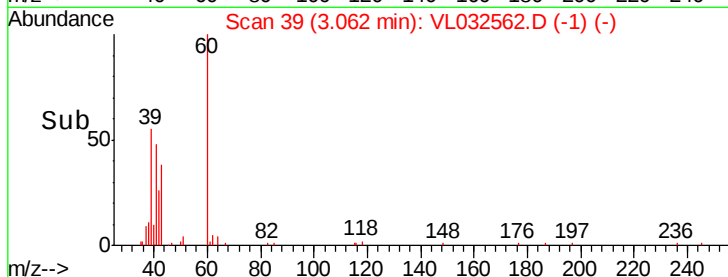
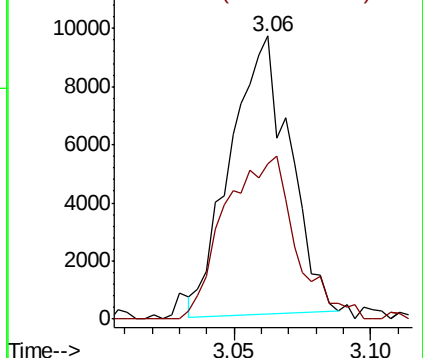
Manual Integrations
APPROVED

MMDadoda
10/1/2018 11:57:45 AM



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#11

Trichlorofluoromethane

Concen: 0.269 ppbv

RT: 4.02 min Scan# 338

Delta R.T. -0.02 min

Lab File: VL032562.D

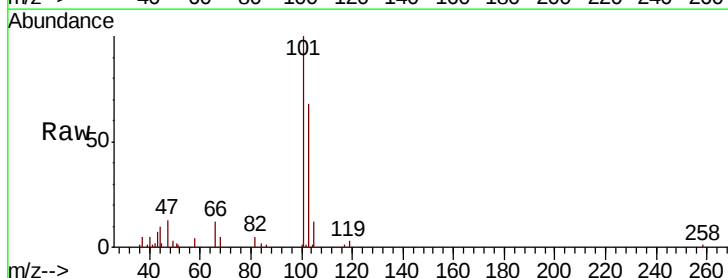
Acq: 27 Sep 2018 23:25

Tgt Ion: 101 Resp: 37765

Ion Ratio Lower Upper

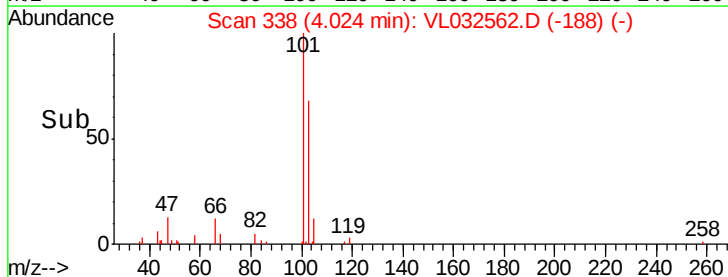
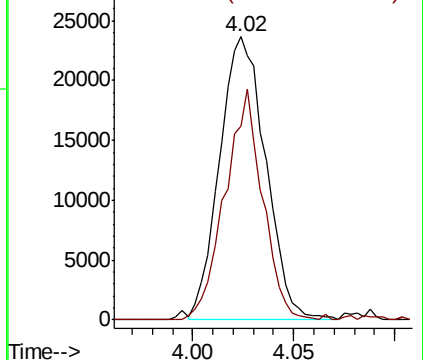
101 100

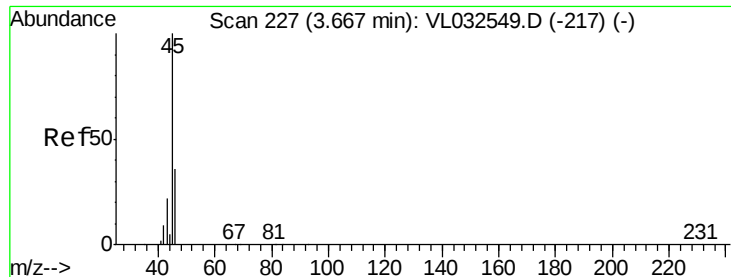
103 68.3 52.8 79.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





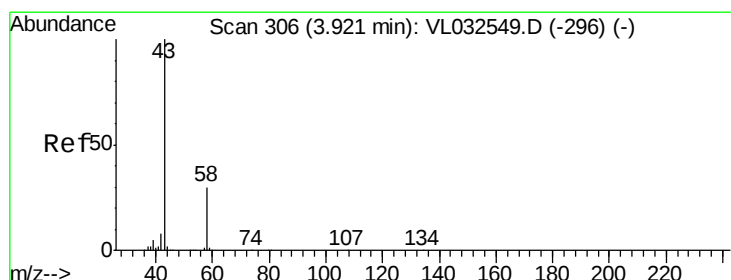
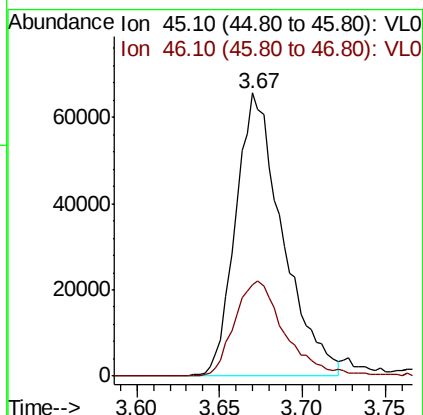
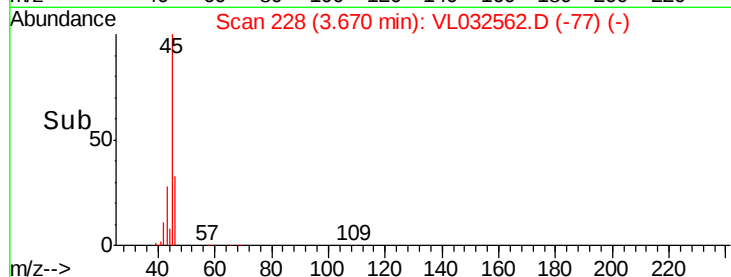
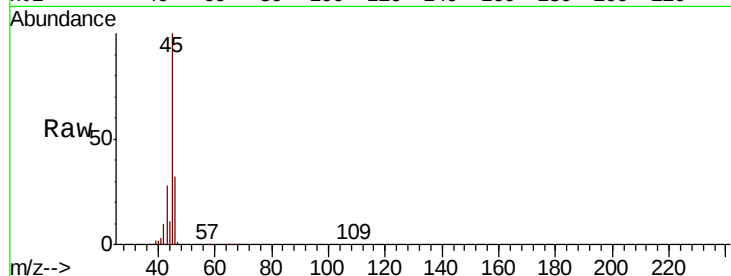
#13
Ethanol
Concen: 9.324 ppbv
RT: 3.67 min Scan# 228
Delta R.T. -0.01 min
Lab File: VL032562.D
Acq: 27 Sep 2018 23:25

Instrument :
MSVOA_L
ClientSampled :
AA-1

Tgt Ion: 45 Resp: 129130
Ion Ratio Lower Upper
45 100
46 36.2 14.2 56.8

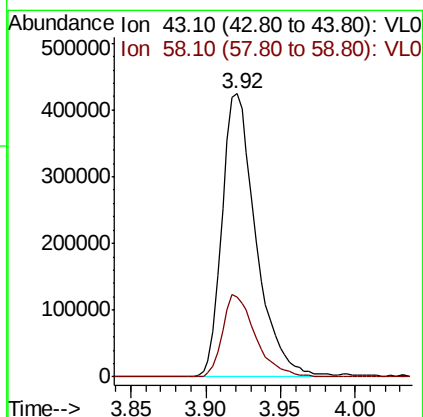
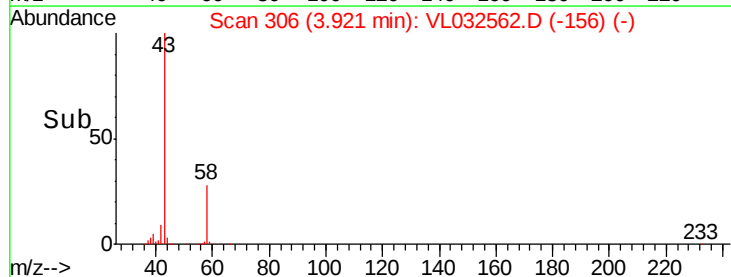
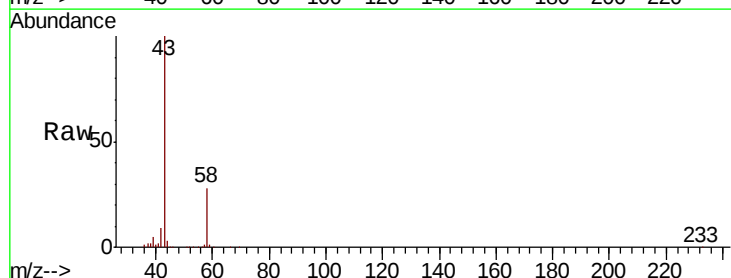
Manual Integrations
APPROVED

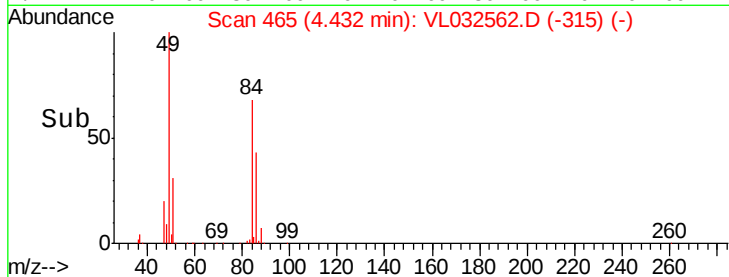
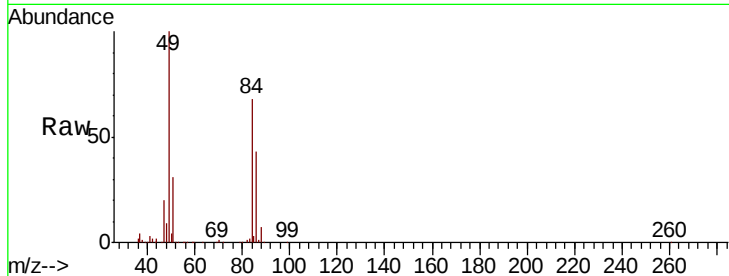
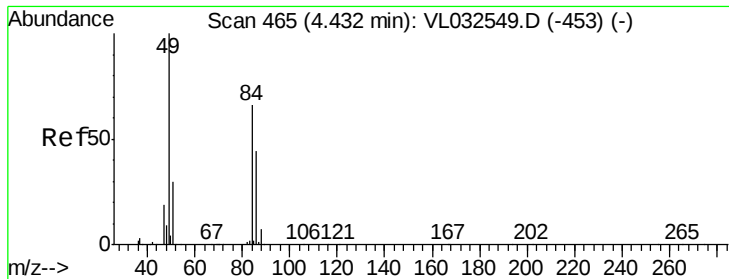
MMDadoda
10/1/2018 11:57:45 AM



#15
Acetone
Concen: 5.995 ppbv
RT: 3.92 min Scan# 306
Delta R.T. -0.02 min
Lab File: VL032562.D
Acq: 27 Sep 2018 23:25

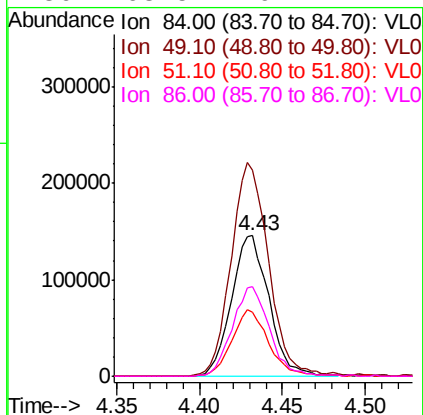
Tgt Ion: 43 Resp: 671930
Ion Ratio Lower Upper
43 100
58 28.6 22.6 33.8





#20
Methylene Chloride
Concen: 4.231 ppbv
RT: 4.43 min Scan# 465
Delta R.T. -0.02 min
Lab File: VL032562.D
Acq: 27 Sep 2018 23:25

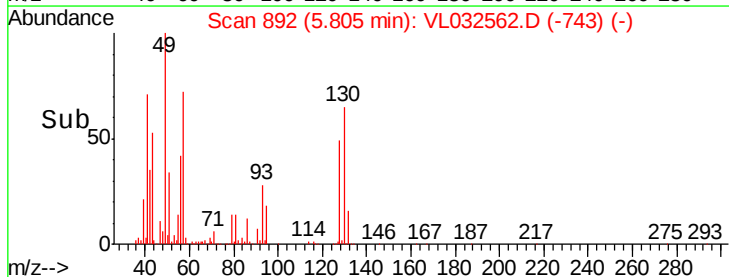
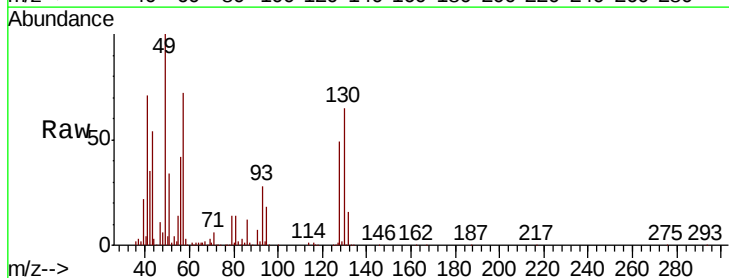
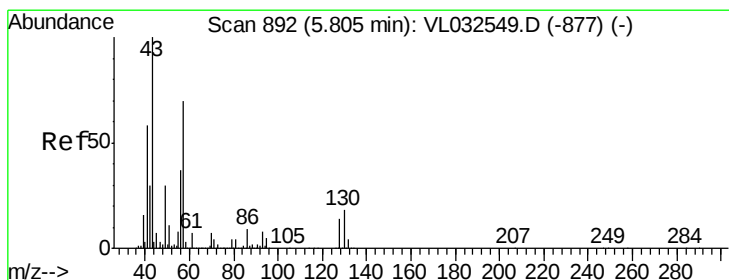
Tgt Ion	Ratio	Lower	Upper
84	100		
49	146.7	119.1	178.7
51	45.9	35.2	52.8
86	63.5	49.4	74.2



Instrument :
MSVOA_L
ClientSampleId :
AA-1

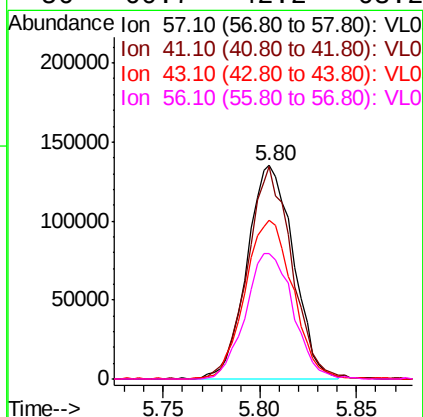
Manual Integrations
APPROVED

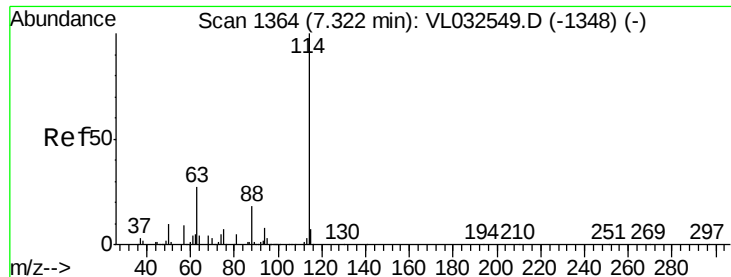
MMDadoda
10/1/2018 11:57:45 AM



#26
Hexane
Concen: 1.831 ppbv
RT: 5.80 min Scan# 892
Delta R.T. -0.02 min
Lab File: VL032562.D
Acq: 27 Sep 2018 23:25

Tgt Ion	Ratio	Lower	Upper
57	100		
41	95.4	69.0	103.4
43	77.4	172.1	258.1#
56	60.7	42.2	63.2





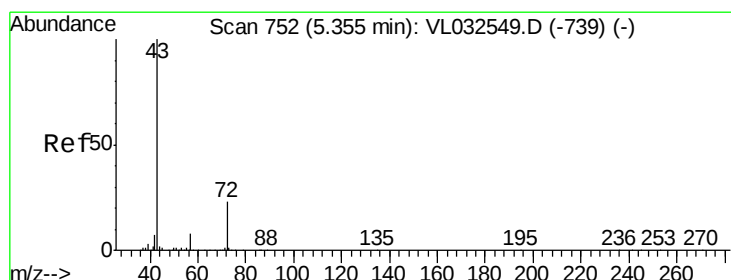
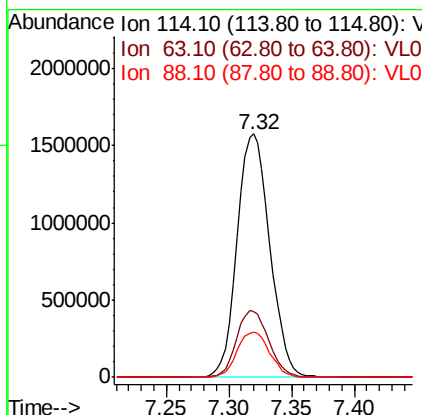
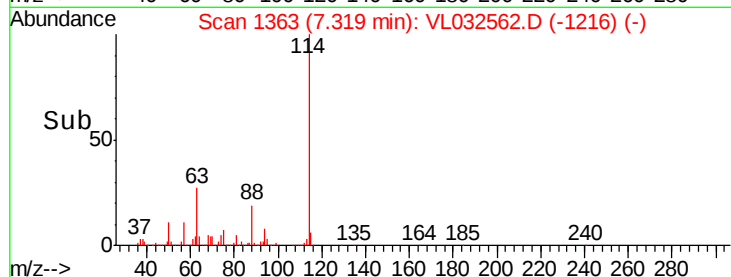
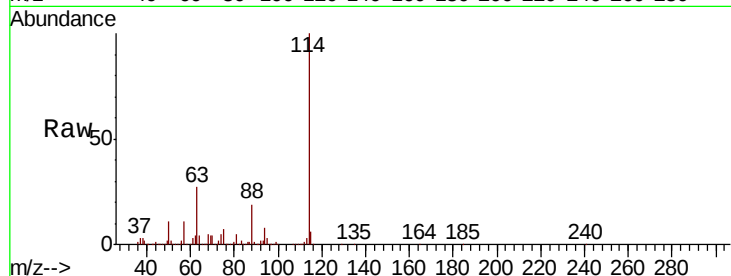
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.32 min Scan# 1363
 Delta R.T. -0.03 min
 Lab File: VL032562.D
 Acq: 27 Sep 2018 23:25

Instrument :
 MSVOA_L
 ClientSampleId :
 AA-1

Tgt Ion	Ratio	Lower	Upper
114	100		
63	27.1	22.2	33.4
88	18.7	15.0	22.4

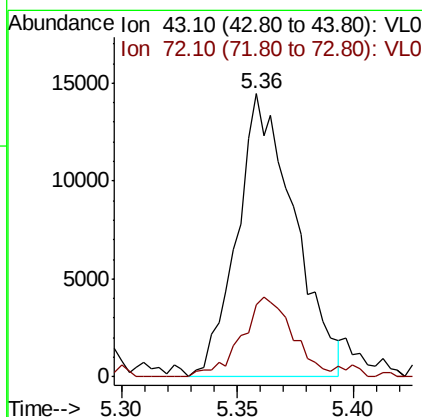
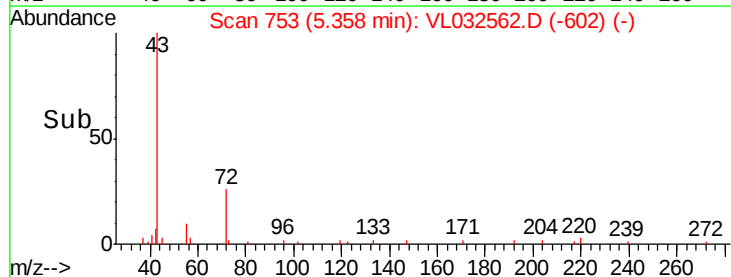
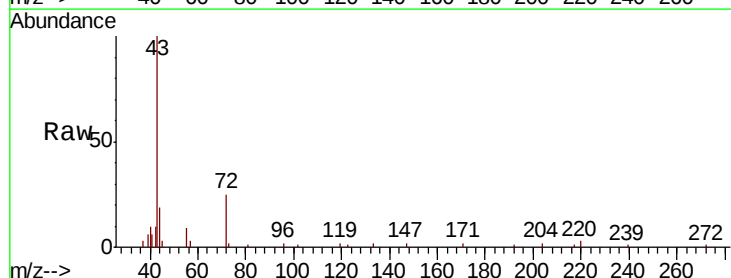
Manual Integrations
 APPROVED

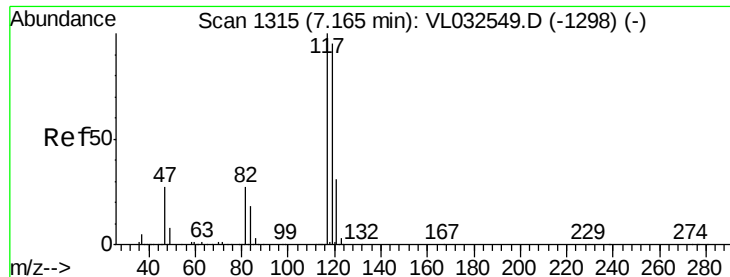
MMDadoda
 10/1/2018 11:57:45 AM



#34
 2-Butanone
 Concen: 0.146 ppbv
 RT: 5.36 min Scan# 753
 Delta R.T. -0.01 min
 Lab File: VL032562.D
 Acq: 27 Sep 2018 23:25

Tgt Ion	Ratio	Lower	Upper
43	100		
72	27.1	17.8	26.6#





#35

Carbon Tetrachloride

Concen: 0.078 ppbv m

RT: 7.16 min Scan# 1312

Delta R.T. -0.03 min

Lab File: VL032562.D

Acq: 27 Sep 2018 23:25

Instrument :

MSVOA_L

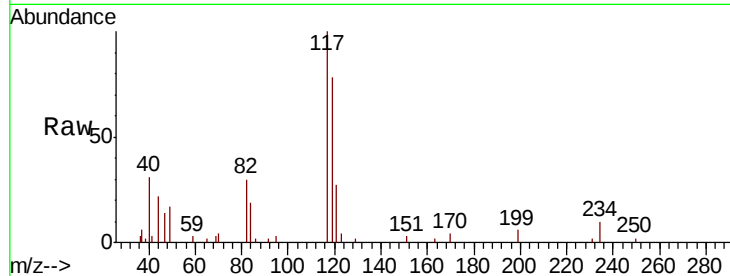
ClientSampled :

AA-1

Tgt Ion	Ratio	Lower	Upper
117	100		
119	78.0	76.6	115.0
121	27.1	24.6	36.8

Manual Integrations
APPROVED

MMDadoda
10/1/2018 11:57:45 AM

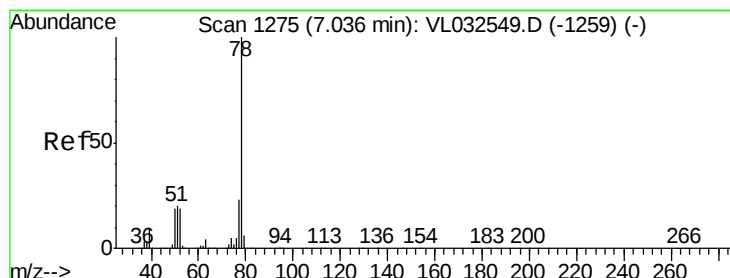
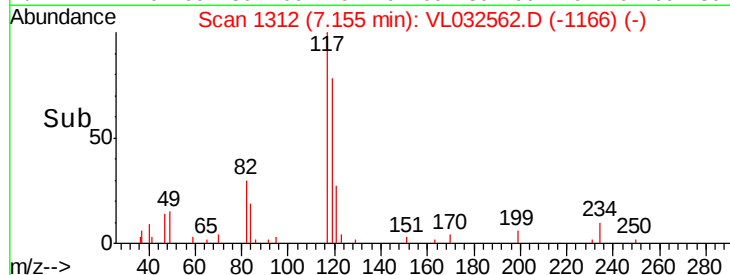
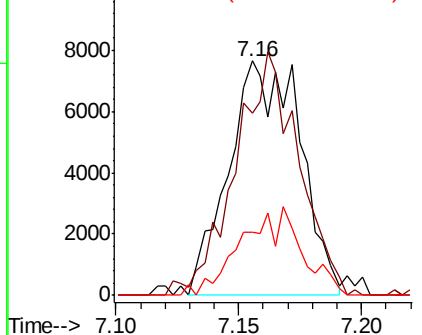


Abundance

Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 0.154 ppbv m

RT: 7.04 min Scan# 1275

Delta R.T. -0.02 min

Lab File: VL032562.D

Acq: 27 Sep 2018 23:25

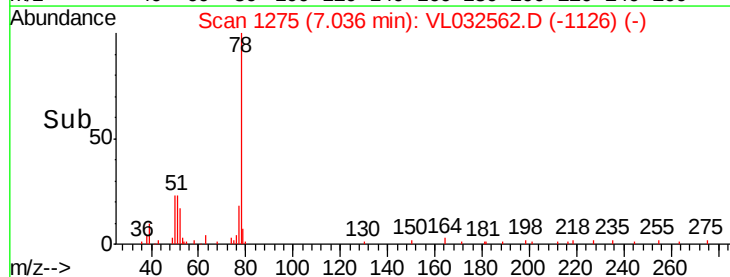
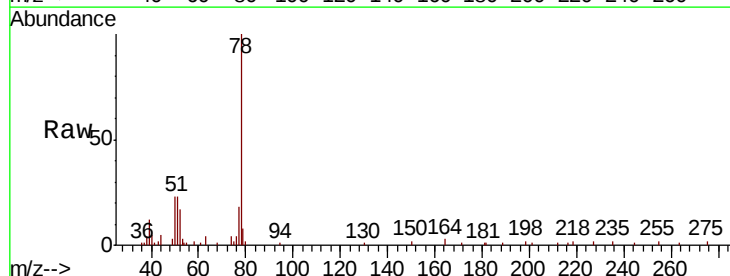
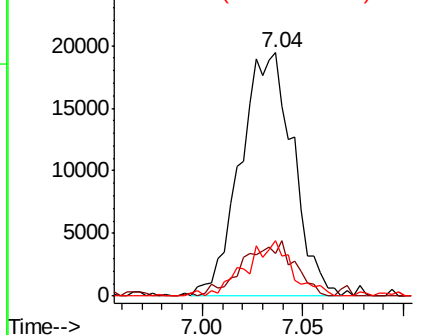
Tgt Ion	Ratio	Lower	Upper
78	100		
77	17.6	18.4	27.6#
50	22.6	14.4	21.6#

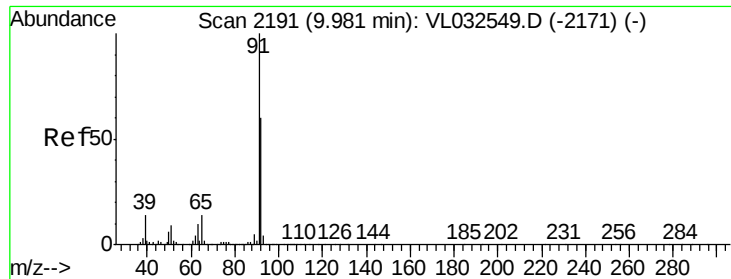
Abundance

Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#53

Toluene

Concen: 2.116 ppbv

RT: 9.98 min Scan# 2190

Delta R.T. -0.03 min

Lab File: VL032562.D

Acq: 27 Sep 2018 23:25

Instrument :

MSVOA_L

ClientSampleId :

AA-1

Tgt Ion: 91 Resp: 595354

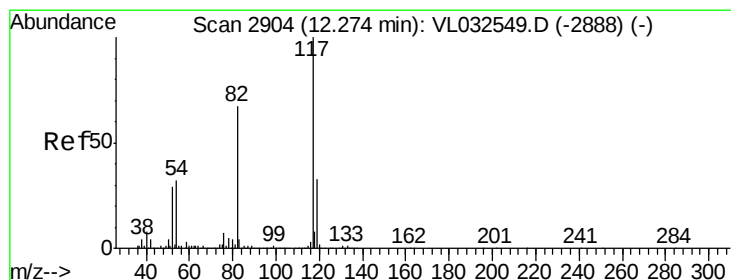
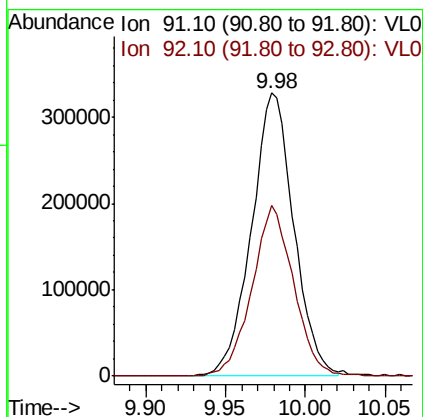
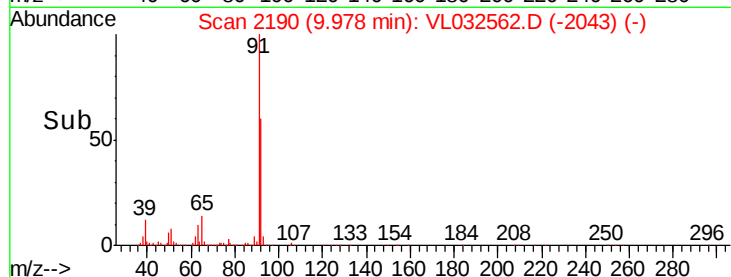
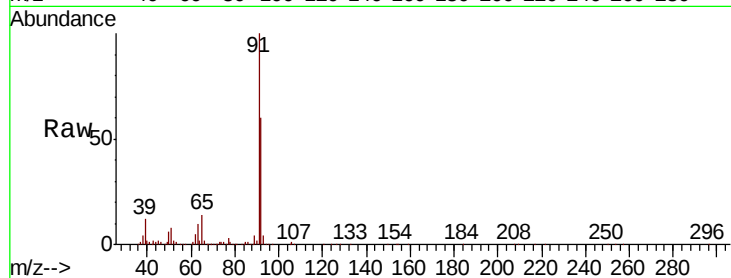
Ion Ratio Lower Upper

91 100

92 59.6 48.1 72.1

Manual Integrations
APPROVED

MMDadoda
10/1/2018 11:57:45 AM



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.27 min Scan# 2903

Delta R.T. -0.03 min

Lab File: VL032562.D

Acq: 27 Sep 2018 23:25

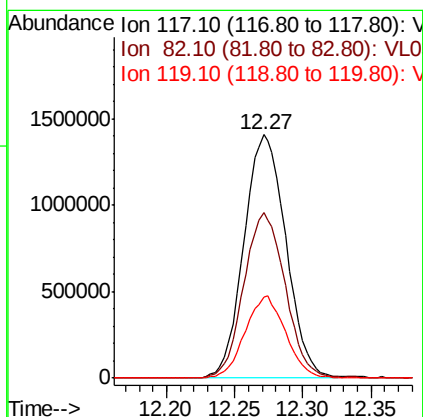
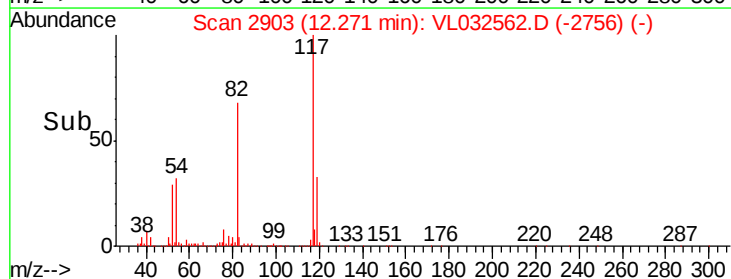
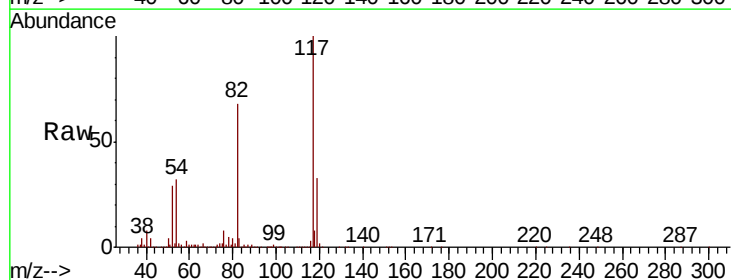
Tgt Ion: 117 Resp: 3005721

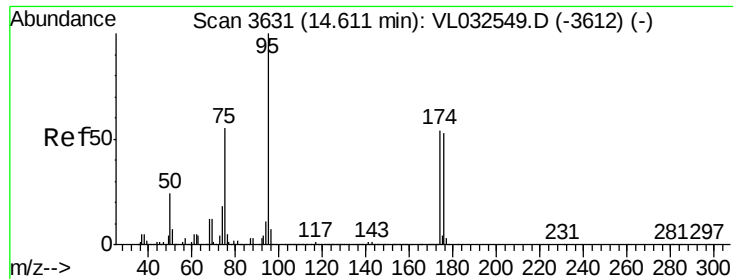
Ion Ratio Lower Upper

117 100

82 67.7 53.0 79.6

119 32.8 45.9 68.9#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.504 ppbv
 RT: 14.61 min Scan# 3630
 Delta R.T. -0.03 min
 Lab File: VL032562.D
 Acq: 27 Sep 2018 23:25

Instrument :
 MSVOA_L
 ClientSampleId :
 AA-1

Tgt Ion	Ratio	Lower	Upper
95	100		
174	58.3	46.3	69.5
175	4.1	3.4	5.0

Manual Integrations
 APPROVED

MMDadoda
 10/1/2018 11:57:45 AM

