

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL102015\
 Data File : VL026222.D
 Acq On : 21 Oct 2015 1:41
 Operator : SY/MD
 Sample : G4086-01 60X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ERD45INFLUENT-100215

Manual Integrations
 APPROVED

MMDadoda
 10/22/2015 4:32:11 PM

Quant Time: Oct 22 16:31:23 2015
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL102015AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Oct 22 2015
 QLast Update : Wed Oct 21 01:20:55 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.63	49	576549	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	8.32	114	1752156	10.00	ppbv	0.00
55) Chlorobenzene-d5	13.72	117	1914313	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	16.25	95	1540085	10.43	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	3.56	51	84205m	1.15	ppbv	
5) Vinyl Chloride	3.87	62	197222	4.76	ppbv	99
9) Propene	3.59	41	21992	0.64	ppbv	91
10) Heptane	9.35	43	93445	0.82	ppbv	95
13) Ethanol	4.32	45	66891	13.05	ppbv	100
15) Acetone	4.59	43	2200760	25.93	ppbv	98
18) 1,1-Dichloroethene	5.07	96	16597	0.46	ppbv #	76
19) Isopropyl Alcohol	4.75	45	145697	4.39	ppbv #	27
22) trans-1,2-Dichloroethene	5.74	96	104826	2.25	ppbv	97
26) Hexane	6.63	57	58267m	0.73	ppbv	
27) Carbon Disulfide	5.37	76	46979	0.46	ppbv	96
30) Cyclohexane	8.26	84	20548	0.26	ppbv	91
31) cis-1,2-Dichloroethene	6.49	61	4754560	65.87	ppbv	100
34) 2-Butanone	6.21	43	687641	6.94	ppbv	98
36) Benzene	8.02	78	26321	0.15	ppbv	96
38) Trichloroethene	9.07	130	16134371	186.36	ppbv	94
50) 4-Methyl-2-Pentanone	10.10	43	40794	0.31	ppbv #	80
52) Tetrachloroethene	12.77	164	34655	0.34	ppbv	94
53) Toluene	11.23	91	112790	0.46	ppbv	98
59) m/p-Xylene	14.66	91	74295	0.31	ppbv	97
60) o-Xylene	15.46	91	28055	0.11	ppbv	95
73) 1,3,5-Trimethylbenzene	17.96	105	28497	0.10	ppbv	97
74) 1,2,4-Trimethylbenzene	18.80	105	88931	0.31	ppbv #	77

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

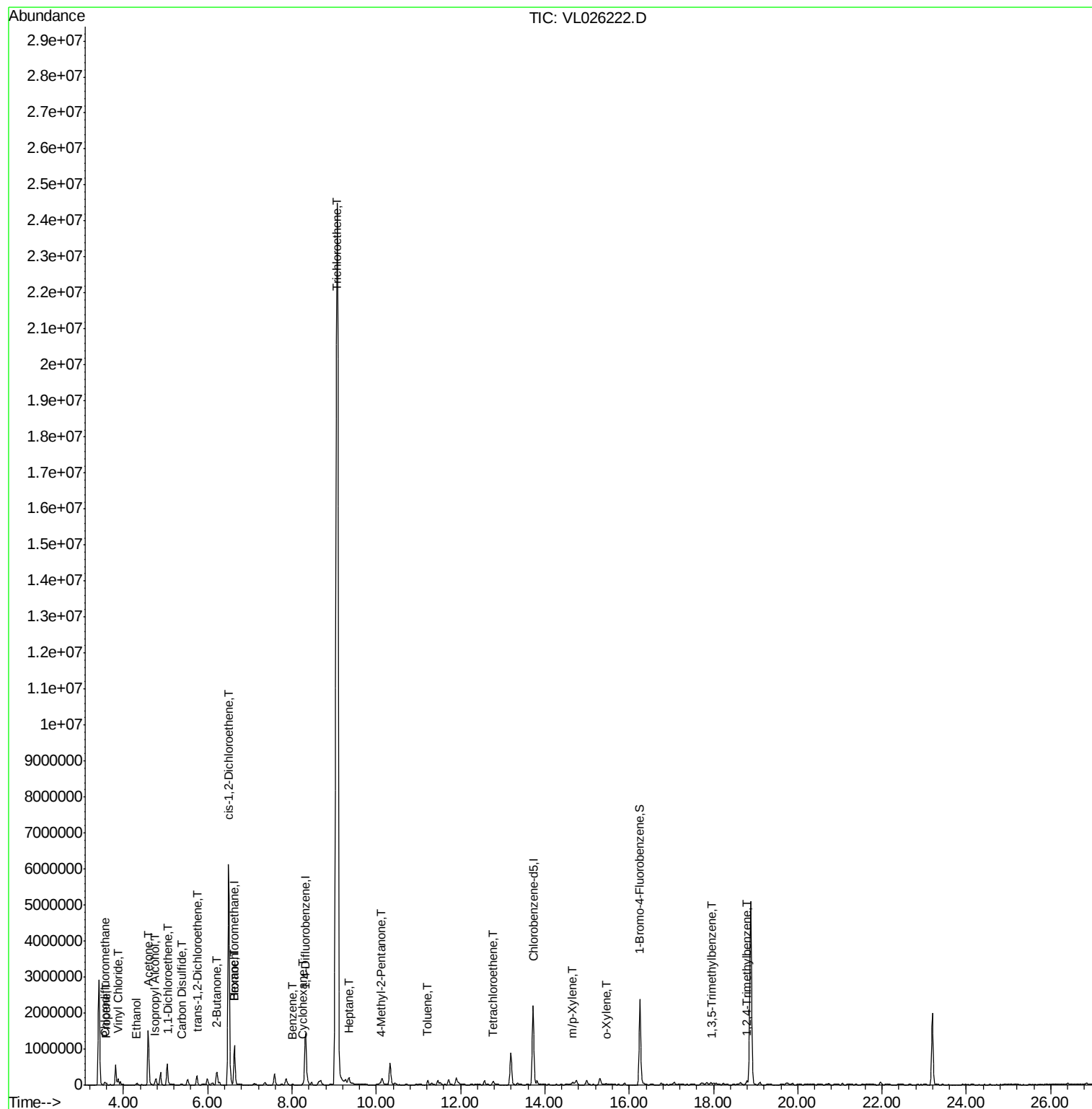
Data Path : W:\HPCHEM1\MSVOA L\DATA\VL102015\
Data File : VL026222.D
Acq On : 21 Oct 2015 1:41
Operator : SY/MD
Sample : G4086-01 60X
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

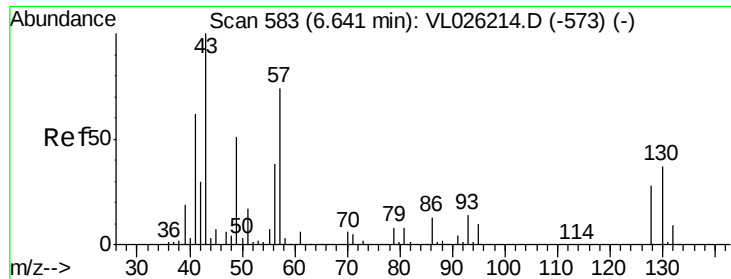
Instrument :
MSVOA_L
ClientSampleId :
ERD45INFLUENT-100215

Manual Integrations
APPROVED

MMDadoda
10/22/2015 4:32:11 PM

Quant Time: Oct 22 16:31:23 2015
Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL102015AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Oct
QLast Update : Wed Oct 21 01:20:55 2015
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.63 min Scan# 582

Delta R.T. -0.01 min

Lab File: VL026222.D

Acq: 21 Oct 2015 1:41

Instrument :

MSVOA_L

ClientSampleId :

ERD45INFLUENT-100215

Tot Ion: 49 Resp: 576549

Ion Ratio Lower Upper

49 100

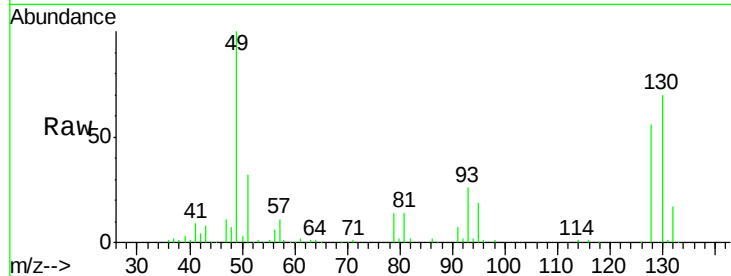
128 56.2 28.2 84.7

130 71.9 36.0 108.1

Manual Integrations
APPROVED

MMDadoda

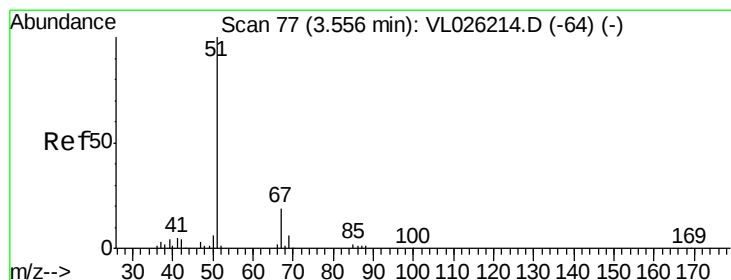
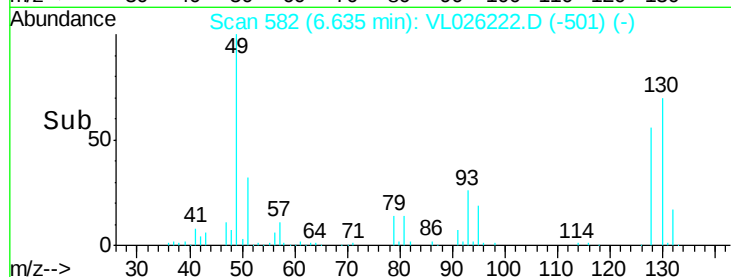
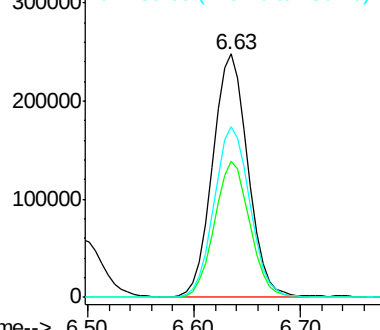
10/22/2015 4:32:11 PM



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



#3

Chlorodifluoromethane

Concen: 1.15 ppbv m

RT: 3.56 min Scan# 77

Delta R.T. 0.00 min

Lab File: VL026222.D

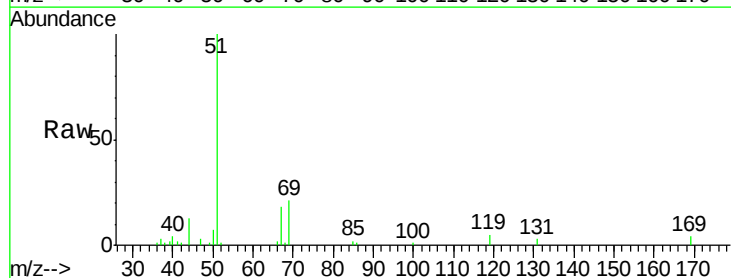
Acq: 21 Oct 2015 1:41

Tgt Ion: 51 Resp: 84205

Ion Ratio Lower Upper

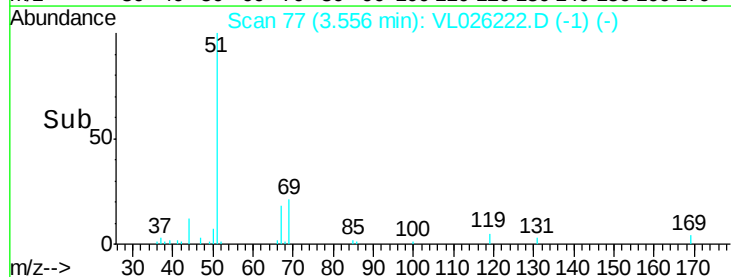
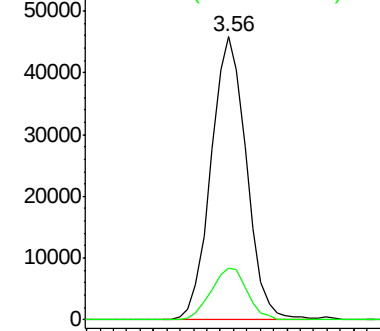
51 100

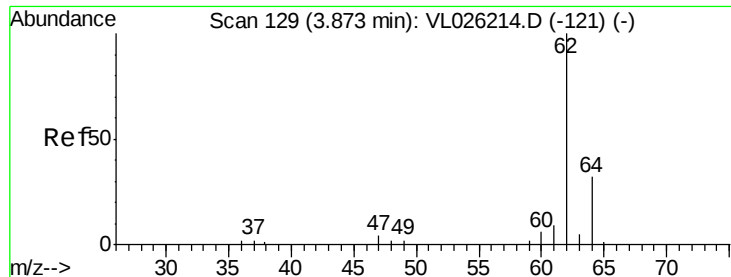
67 18.6 15.3 22.9



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#5

Vinyl Chloride

Concen: 4.76 ppbv

RT: 3.87 min Scan# 129

Delta R.T. 0.00 min

Lab File: VL026222.D

Acq: 21 Oct 2015 1:41

Instrument :

MSVOA_L

ClientSampleId :

ERD45INFLUENT-100215

Tot Ion: 62 Resp: 197222

Ion Ratio Lower Upper

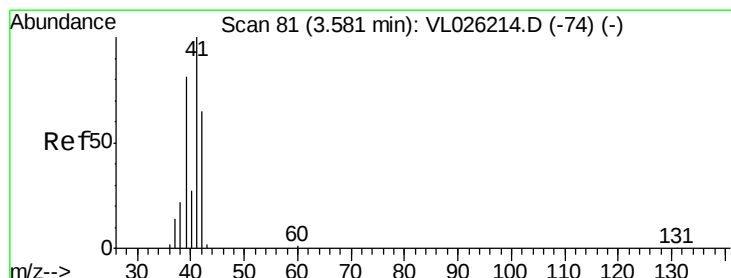
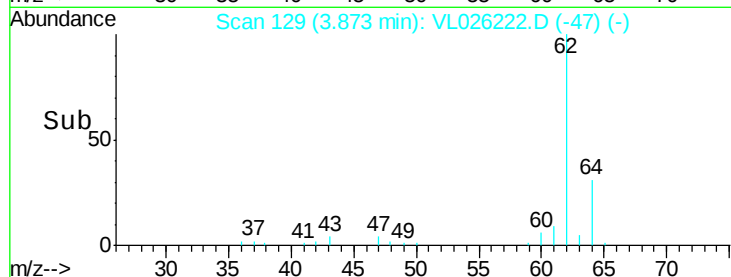
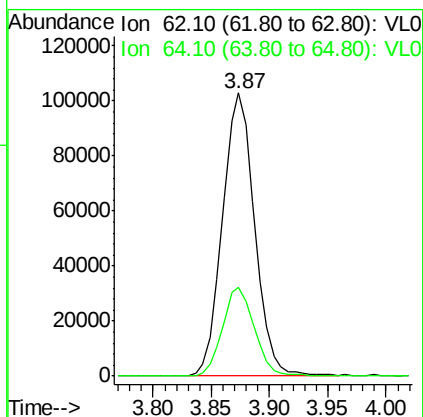
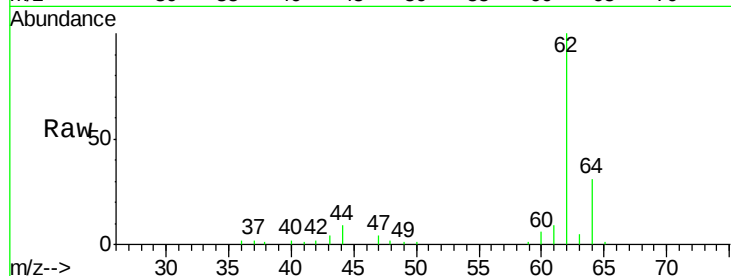
62 100

64 31.4 25.6 38.4

Manual Integrations
APPROVED

MMDadoda

10/22/2015 4:32:11 PM



#9

Propene

Concen: 0.64 ppbv

RT: 3.59 min Scan# 82

Delta R.T. 0.01 min

Lab File: VL026222.D

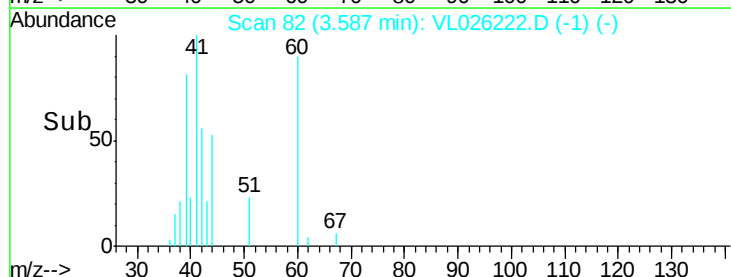
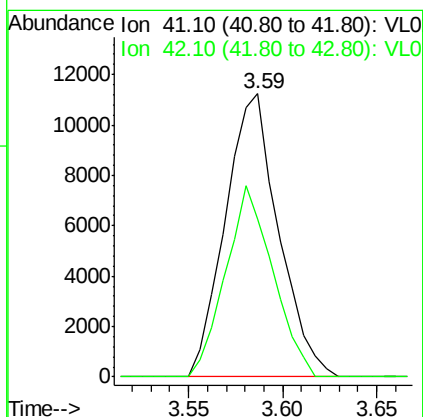
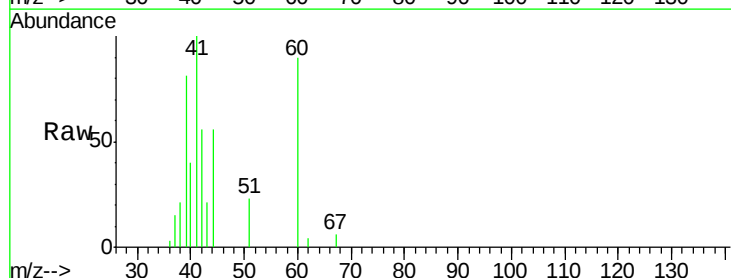
Acq: 21 Oct 2015 1:41

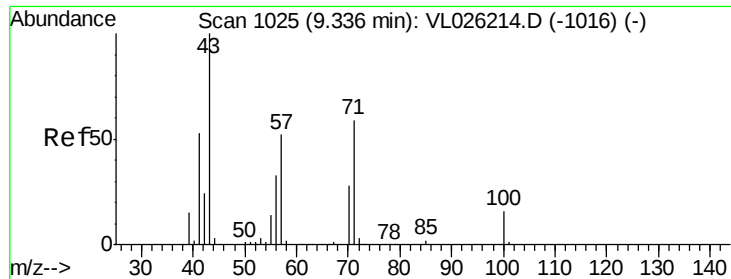
Tgt Ion: 41 Resp: 21992

Ion Ratio Lower Upper

41 100

42 59.9 53.8 80.8





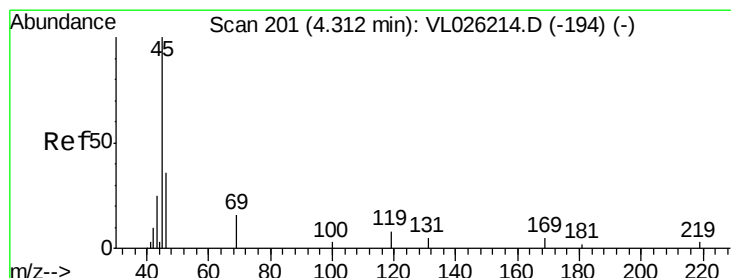
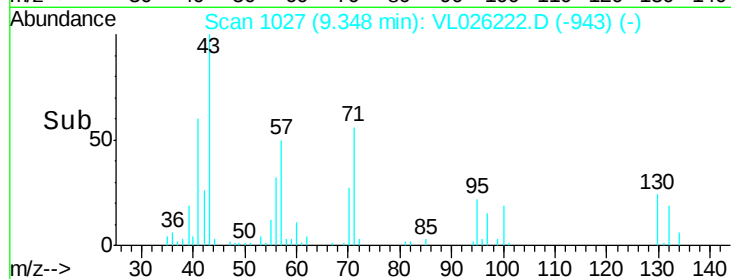
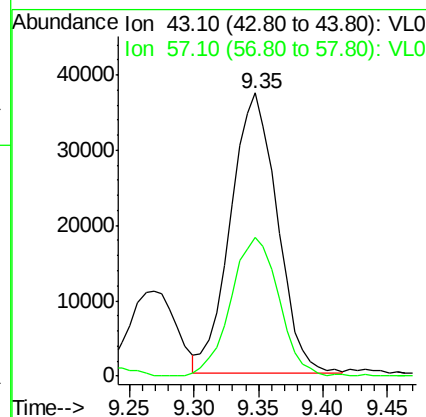
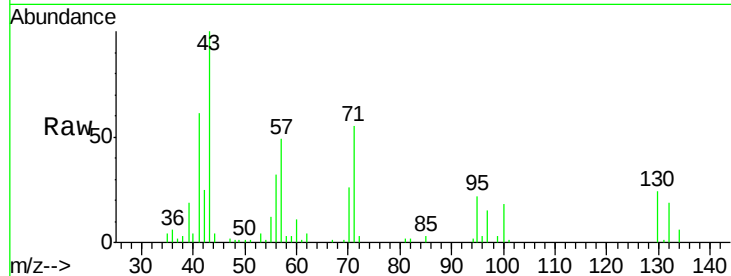
#10
Heptane
Concen: 0.82 ppbv
RT: 9.35 min Scan# 1027
Delta R.T. 0.01 min
Lab File: VL026222.D
Acq: 21 Oct 2015 1:41

Instrument :
MSVOA_L
ClientSampleId :
ERD45INFLUENT-100215

Tot Ion: 43 Resp: 93445
Ion Ratio Lower Upper
43 100
57 51.2 43.7 65.5

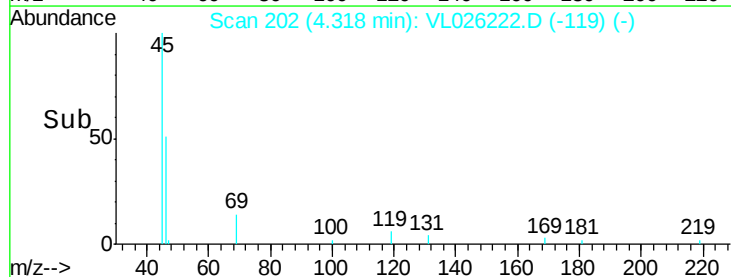
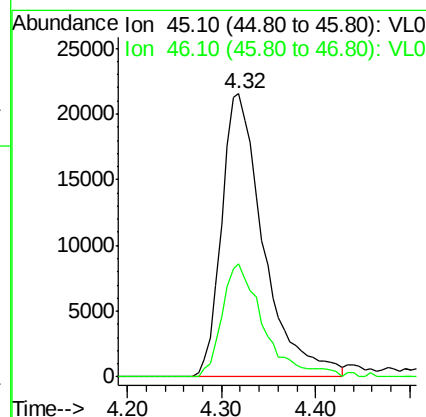
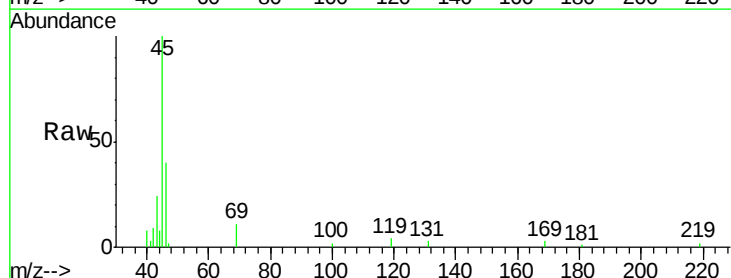
Manual Integrations
APPROVED

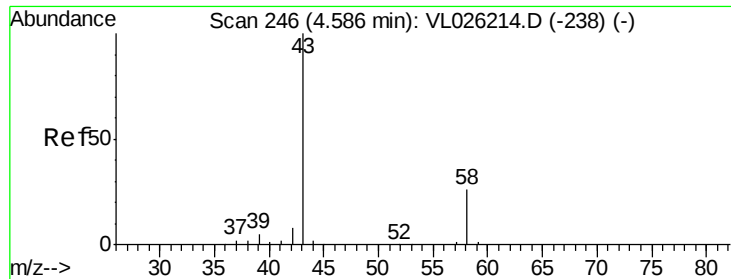
MMDadoda
10/22/2015 4:32:11 PM



#13
Ethanol
Concen: 13.05 ppbv
RT: 4.32 min Scan# 202
Delta R.T. 0.01 min
Lab File: VL026222.D
Acq: 21 Oct 2015 1:41

Tgt Ion: 45 Resp: 66891
Ion Ratio Lower Upper
45 100
46 39.5 15.8 63.0





#15

Acetone

Concen: 25.93 ppbv

RT: 4.59 min Scan# 246

Delta R.T. 0.00 min

Lab File: VL026222.D

Acq: 21 Oct 2015 1:41

Instrument :

MSVOA_L

ClientSampleId :

ERD45INFLUENT-100215

Tot Ion: 43 Resp: 2200760

Ion Ratio Lower Upper

43 100

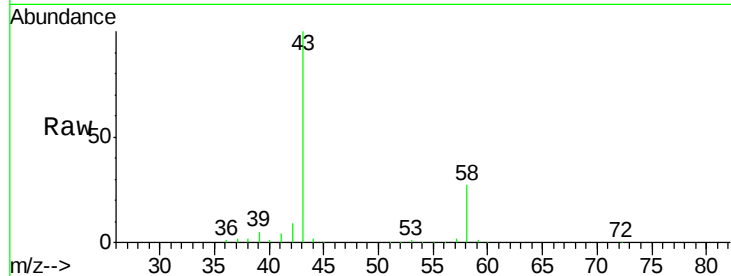
58 28.0 21.8 32.6

Manual Integrations

APPROVED

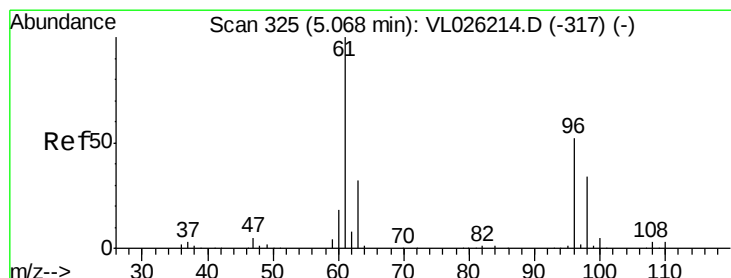
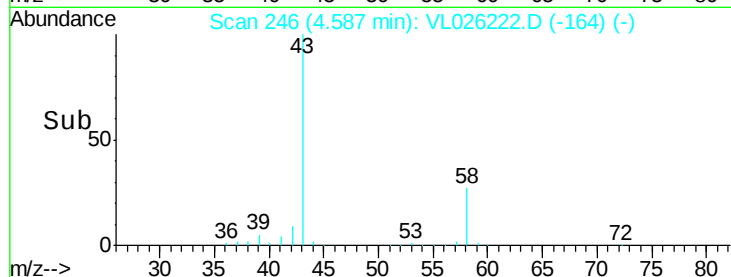
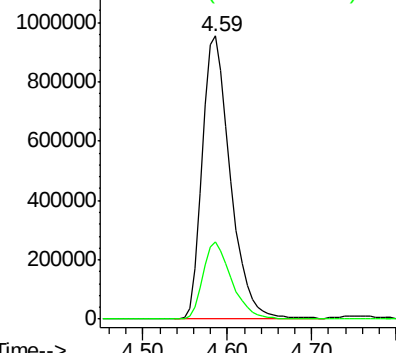
MMDadoda

10/22/2015 4:32:11 PM



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#18

1,1-Dichloroethene

Concen: 0.46 ppbv

RT: 5.07 min Scan# 325

Delta R.T. 0.00 min

Lab File: VL026222.D

Acq: 21 Oct 2015 1:41

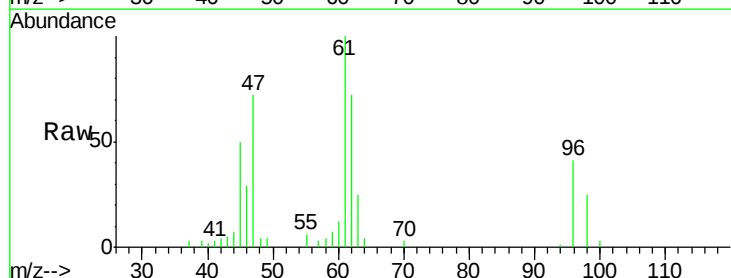
Tgt Ion: 96 Resp: 16597

Ion Ratio Lower Upper

96 100

61 237.2 153.7 230.5#

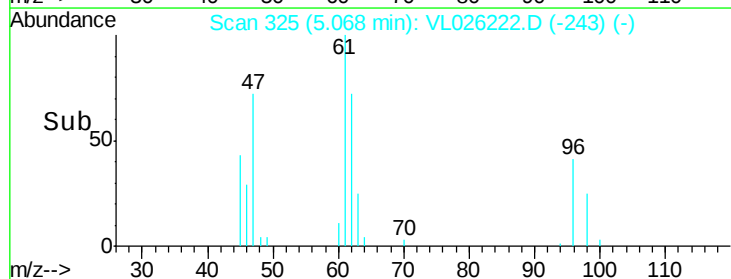
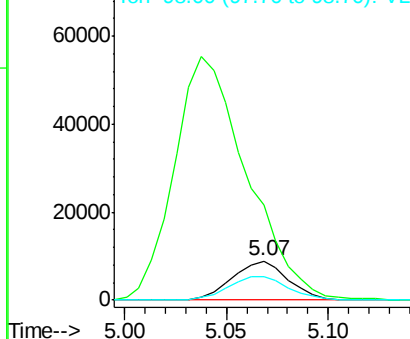
98 60.0 51.6 77.4

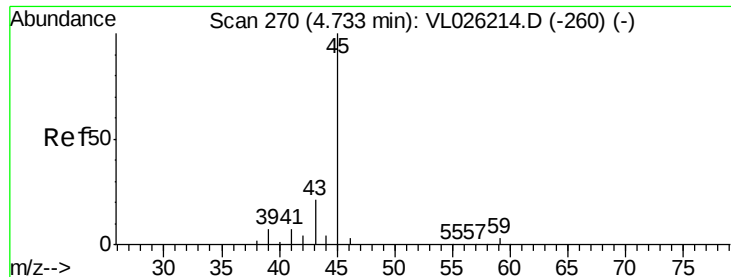


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#19

Isopropyl Alcohol

Concen: 4.39 ppbv

RT: 4.75 min Scan# 273

Delta R.T. 0.02 min

Lab File: VL026222.D

Acq: 21 Oct 2015 1:41

Instrument :

MSVOA_L

ClientSampleId :

ERD45INFLUENT-100215

Tot Ion: 45 Resp: 145697

Ion Ratio Lower Upper

45 100

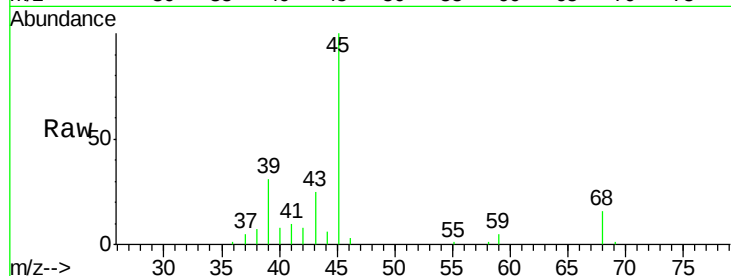
58 0.0 40.3 60.5#

Manual Integrations

APPROVED

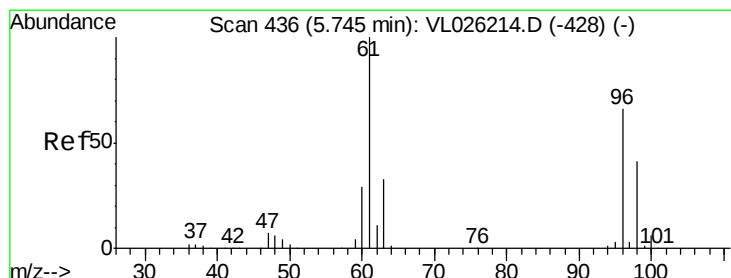
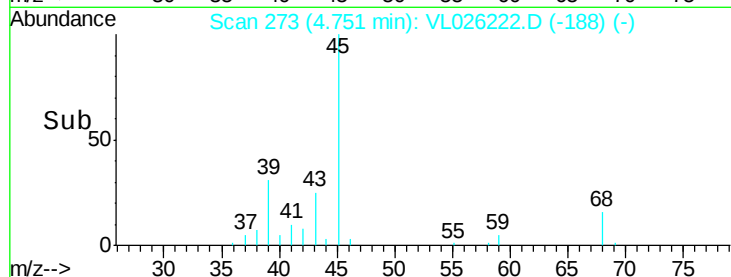
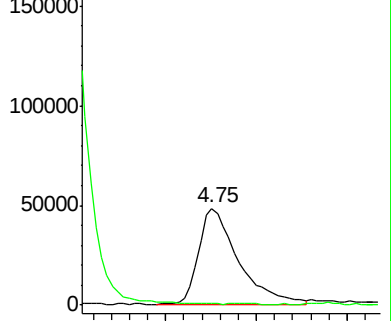
MMDadoda

10/22/2015 4:32:11 PM



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#22

trans-1,2-Dichloroethene

Concen: 2.25 ppbv

RT: 5.74 min Scan# 436

Delta R.T. 0.00 min

Lab File: VL026222.D

Acq: 21 Oct 2015 1:41

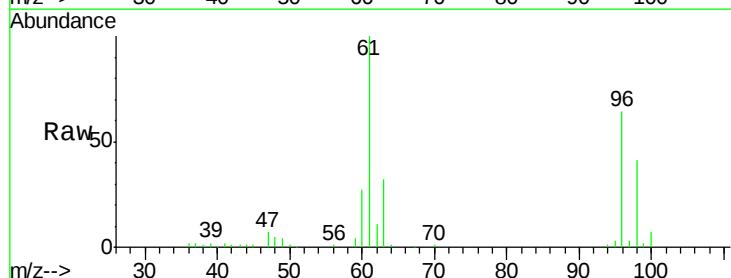
Tgt Ion: 96 Resp: 104826

Ion Ratio Lower Upper

96 100

61 155.9 121.5 182.3

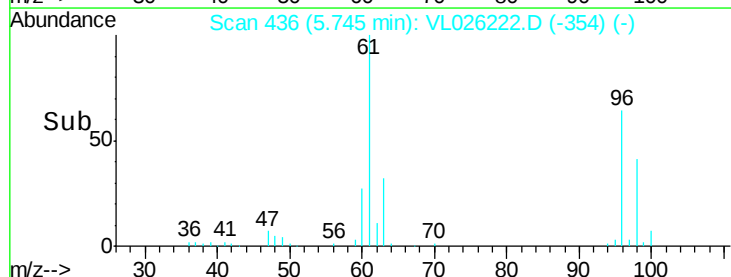
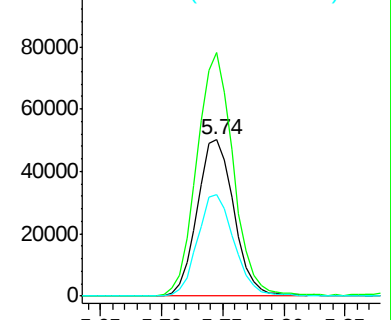
98 64.6 49.7 74.5

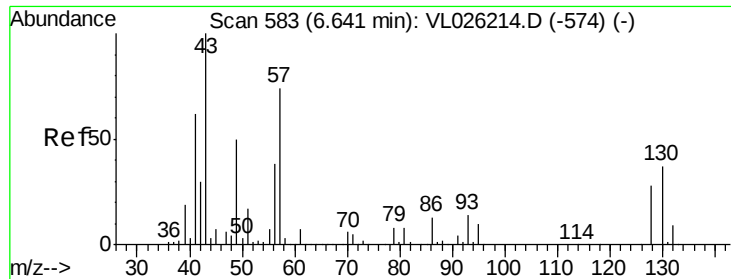


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





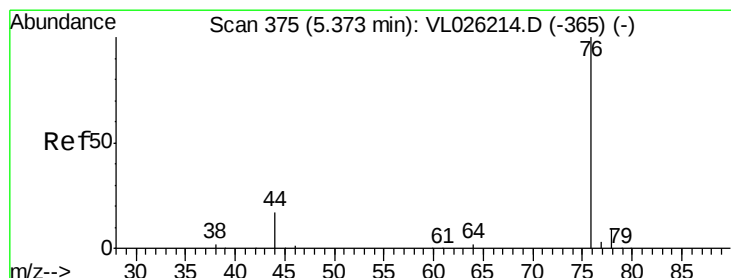
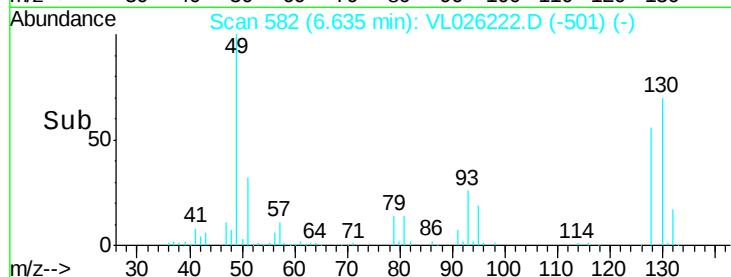
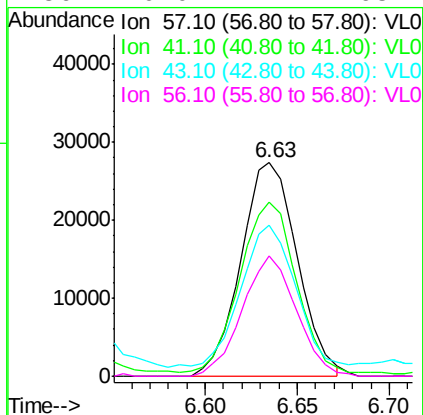
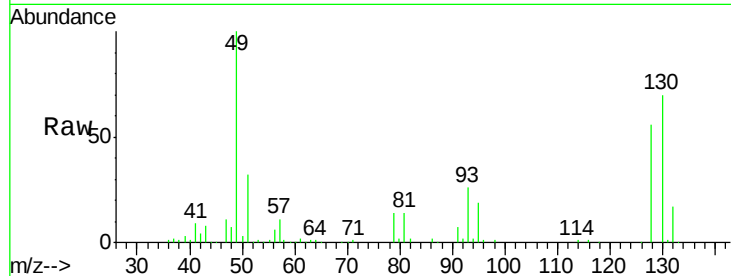
#26
Hexane
Concen: 0.73 ppbv m
RT: 6.63 min Scan# 582
Delta R.T. -0.01 min
Lab File: VL026222.D
Acq: 21 Oct 2015 1:41

Instrument :
MSVOA_L
ClientSampleId :
ERD45INFLUENT-100215

Tot Ion	Ratio	Lower	Upper
57	100		
41	0.0	68.1	102.1#
43	0.0	163.4	245.2#
56	0.0	42.2	63.4#

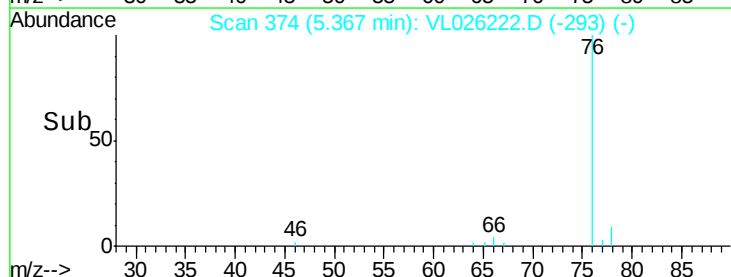
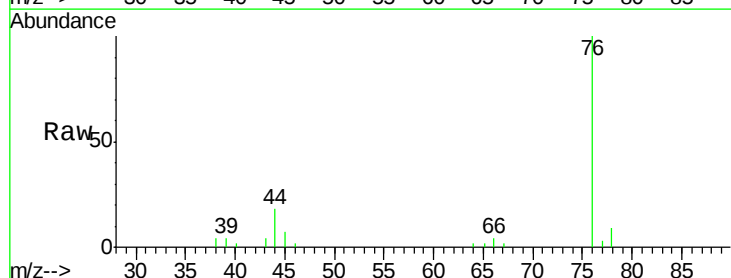
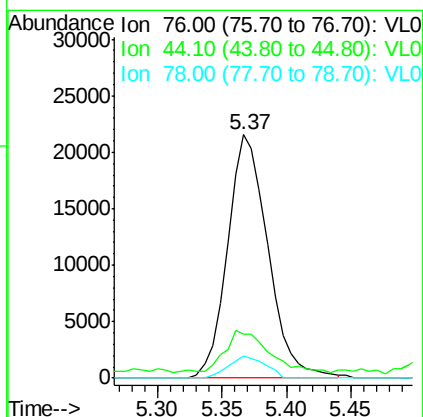
Manual Integrations
APPROVED

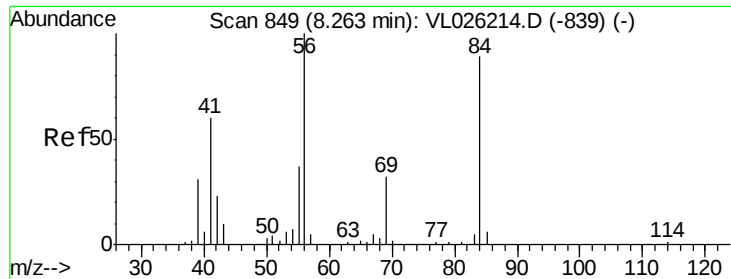
MMDadoda
10/22/2015 4:32:11 PM



#27
Carbon Disulfide
Concen: 0.46 ppbv
RT: 5.37 min Scan# 374
Delta R.T. -0.01 min
Lab File: VL026222.D
Acq: 21 Oct 2015 1:41

Tgt Ion	Ratio	Lower	Upper
76	100		
44	19.7	14.0	21.0
78	8.3	7.4	11.2





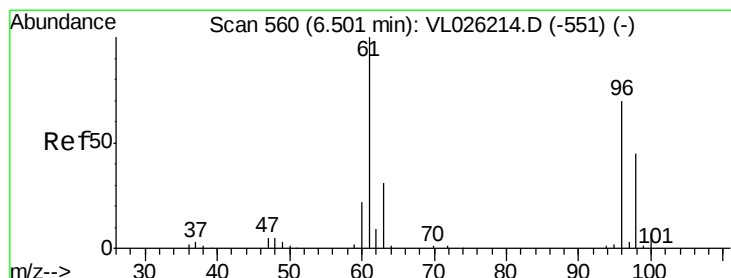
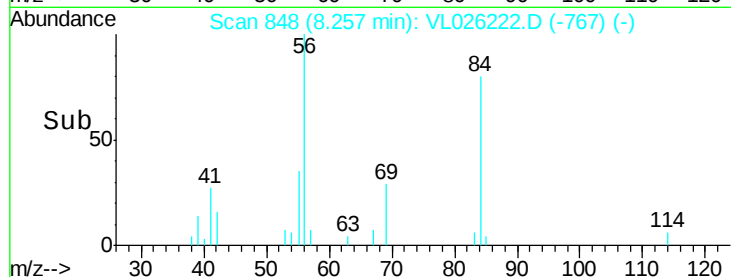
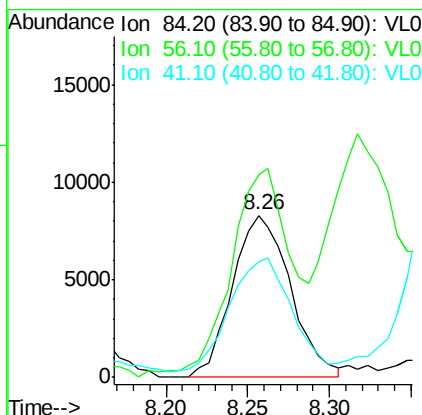
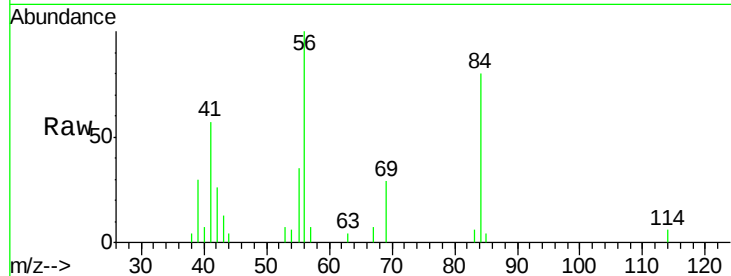
#30
Cyclohexane
Concen: 0.26 ppbv
RT: 8.26 min Scan# 848
Delta R.T. -0.01 min
Lab File: VL026222.D
Acq: 21 Oct 2015 1:41

Instrument :
MSVOA_L
ClientSampleId :
ERD45INFLUENT-100215

Tot Ion	Ratio	Lower	Upper
84	100		
56	134.1	95.9	143.9
41	70.3	54.8	82.2

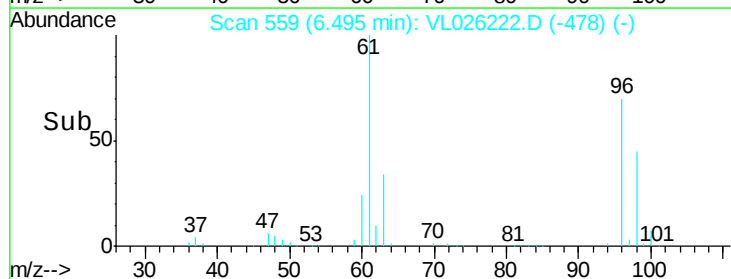
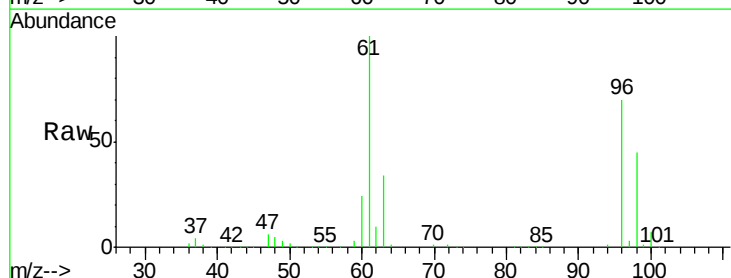
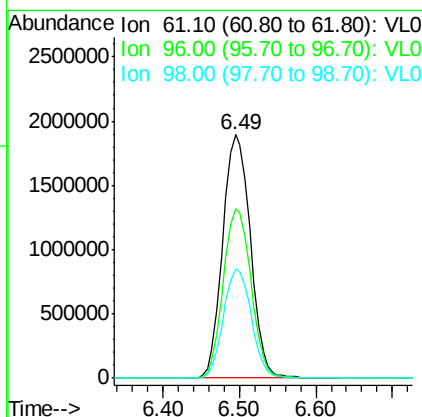
Manual Integrations
APPROVED

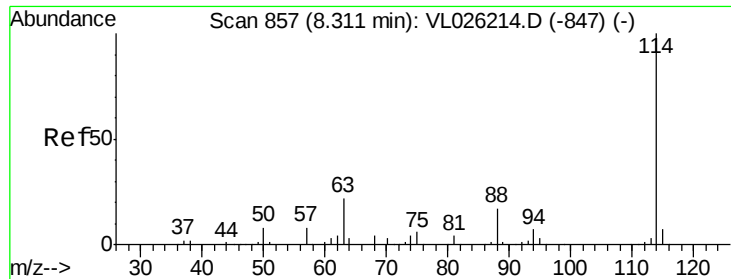
MMDadoda
10/22/2015 4:32:11 PM



#31
cis-1,2-Dichloroethene
Concen: 65.87 ppbv
RT: 6.49 min Scan# 559
Delta R.T. -0.01 min
Lab File: VL026222.D
Acq: 21 Oct 2015 1:41

Tgt Ion	Ratio	Lower	Upper
61	100		
96	69.6	56.0	84.0
98	44.8	36.1	54.1





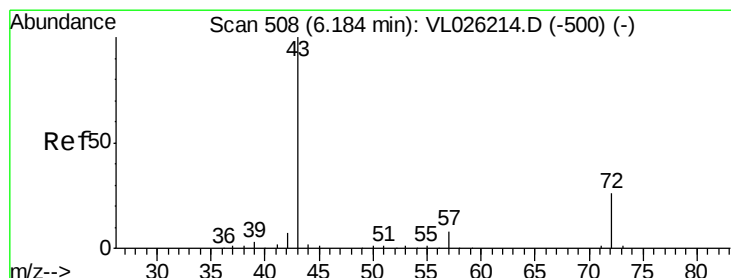
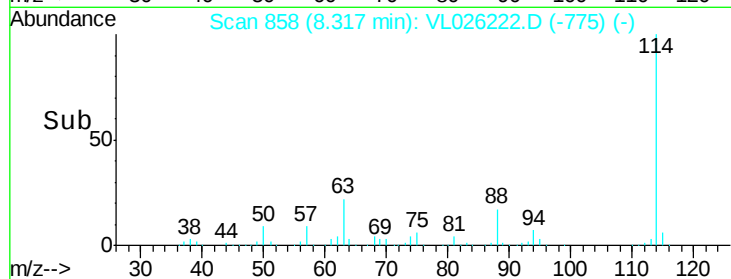
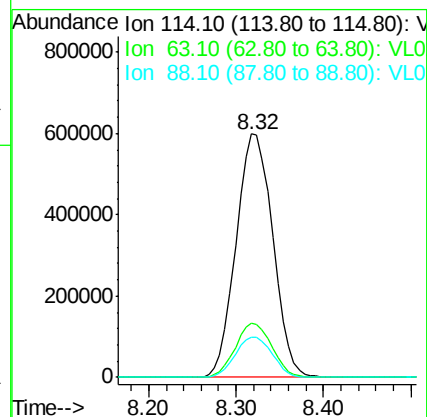
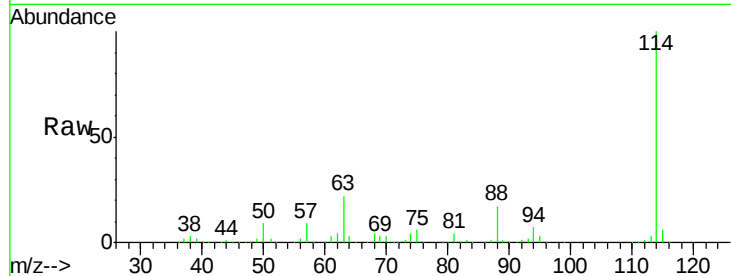
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 8.32 min Scan# 858
 Delta R.T. 0.01 min
 Lab File: VL026222.D
 Acq: 21 Oct 2015 1:41

Instrument :
 MSVOA_L
 ClientSampleId :
 ERD45INFLUENT-100215

Tot Ion	Ratio	Lower	Upper
114	100		
63	22.2	18.2	27.4
88	16.8	13.5	20.3

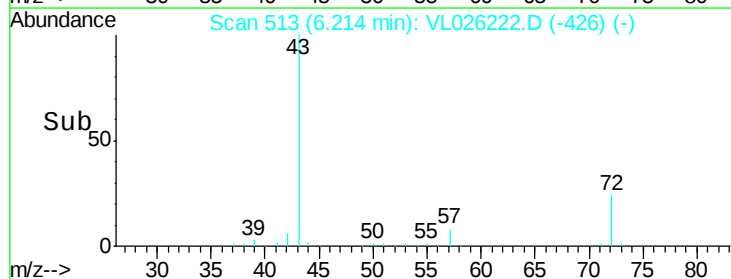
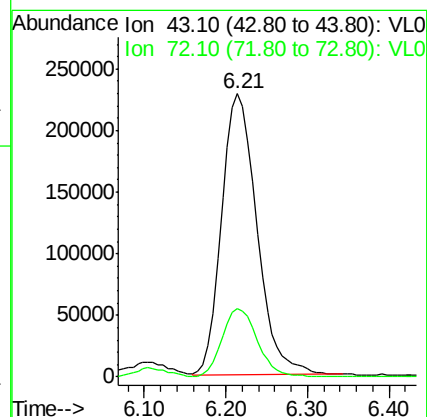
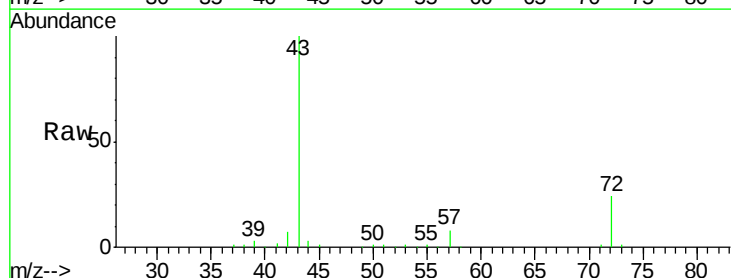
Manual Integrations
 APPROVED

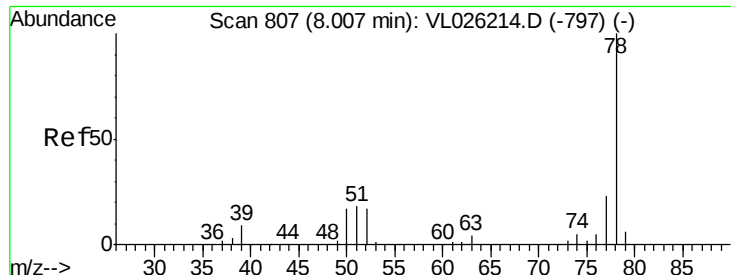
MMDadoda
 10/22/2015 4:32:11 PM



#34
 2-Butanone
 Concen: 6.94 ppbv
 RT: 6.21 min Scan# 513
 Delta R.T. 0.03 min
 Lab File: VL026222.D
 Acq: 21 Oct 2015 1:41

Tgt Ion	Ratio	Lower	Upper
43	100		
72	24.3	20.1	30.1





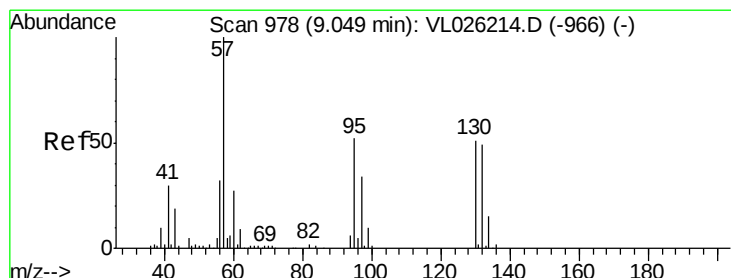
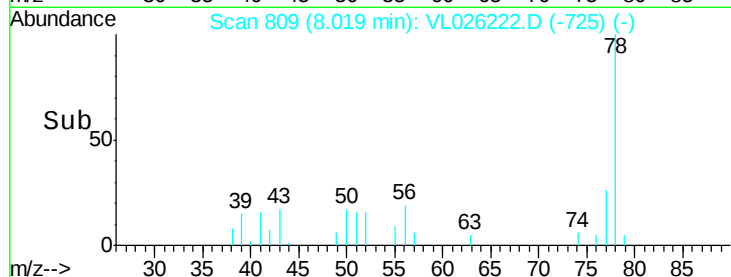
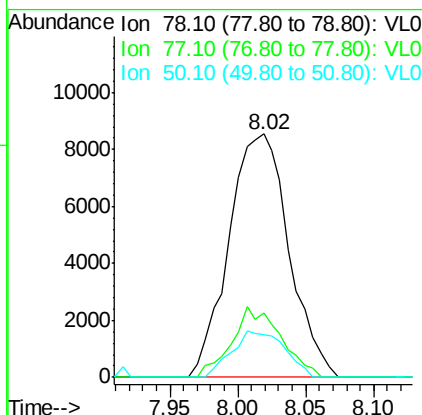
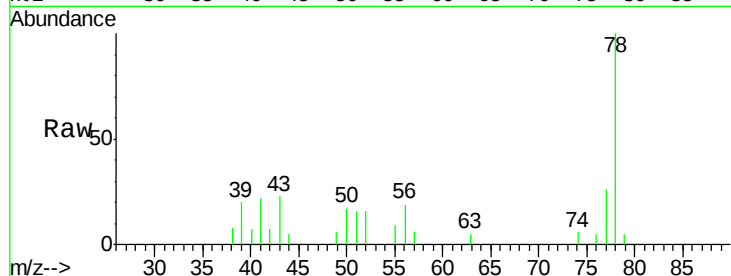
#36
Benzene
Concen: 0.15 ppbv
RT: 8.02 min Scan# 809
Delta R.T. 0.01 min
Lab File: VL026222.D
Acq: 21 Oct 2015 1:41

Instrument :
MSVOA_L
ClientSampleId :
ERD45INFLUENT-100215

Tot Ion	Ratio	Lower	Upper
78	100		
77	26.3	18.1	27.1
50	17.3	13.8	20.8

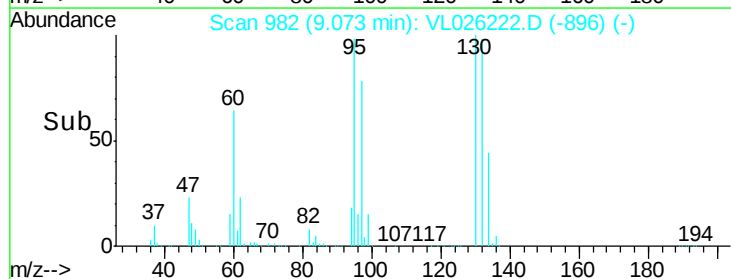
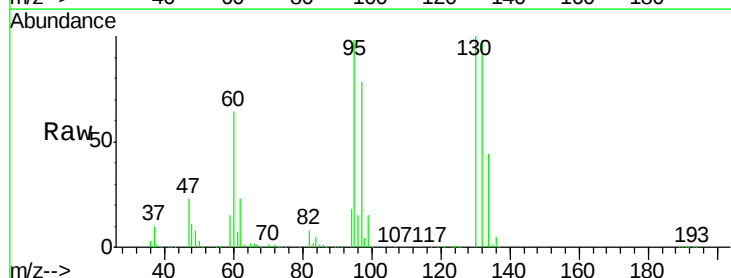
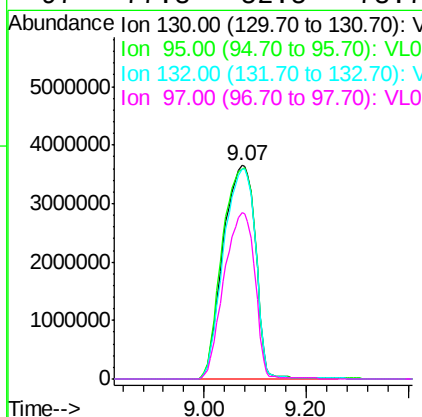
Manual Integrations
APPROVED

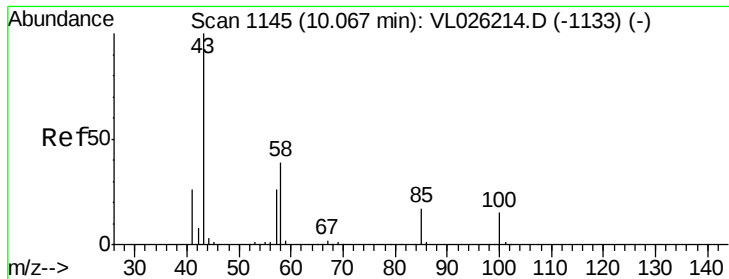
MMDadoda
10/22/2015 4:32:11 PM



#38
Trichloroethene
Concen: 186.36 ppbv
RT: 9.07 min Scan# 982
Delta R.T. 0.02 min
Lab File: VL026222.D
Acq: 21 Oct 2015 1:41

Tgt Ion	Ratio	Lower	Upper
130	100		
95	98.4	81.0	121.4
132	98.1	76.5	114.7
97	77.8	52.5	78.7





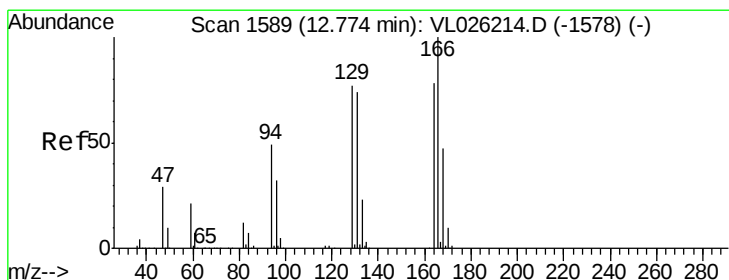
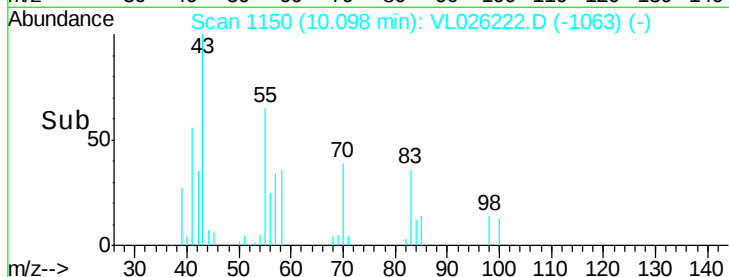
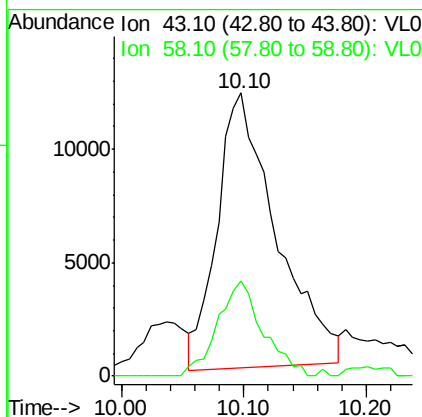
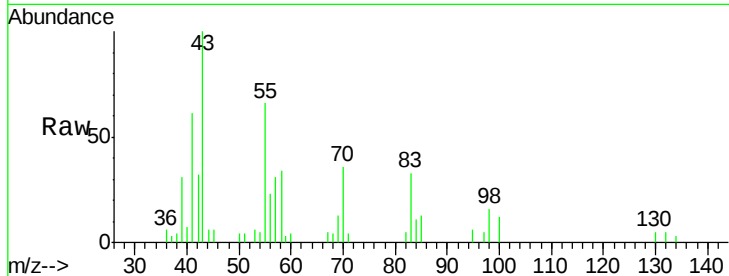
#50
4-Methyl-2-Pentanone
Concen: 0.31 ppbv
RT: 10.10 min Scan# 1150
Delta R.T. 0.03 min
Lab File: VL026222.D
Acq: 21 Oct 2015 1:41

Instrument :
MSVOA_L
ClientSampleId :
ERD45INFLUENT-100215

Tot Ion: 43 Resp: 40794
Ion Ratio Lower Upper
43 100
58 26.4 31.1 46.7#

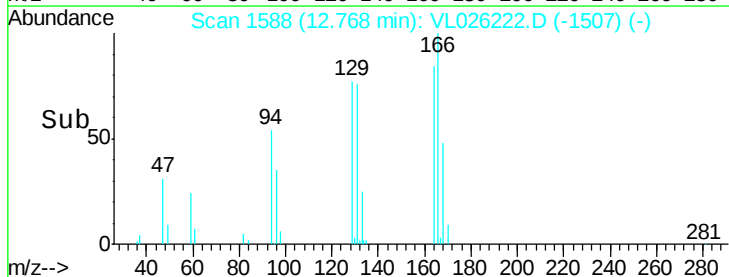
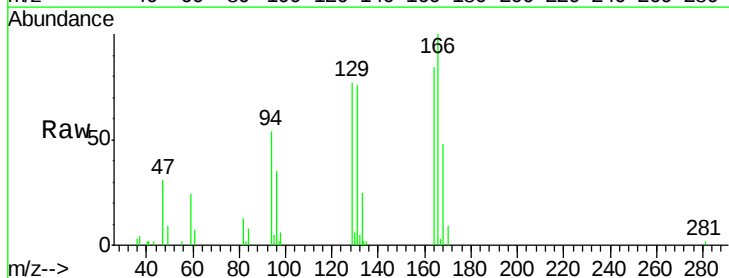
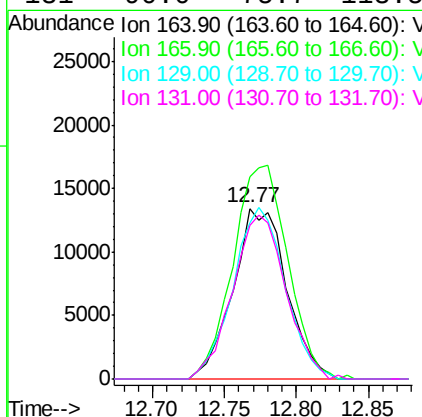
Manual Integrations
APPROVED

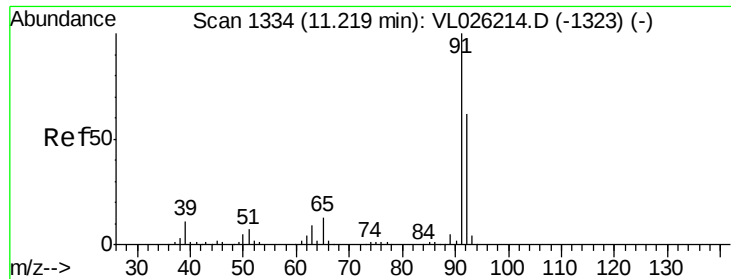
MMDadoda
10/22/2015 4:32:11 PM



#52
Tetrachloroethene
Concen: 0.34 ppbv
RT: 12.77 min Scan# 1588
Delta R.T. -0.01 min
Lab File: VL026222.D
Acq: 21 Oct 2015 1:41

Tgt Ion: 164 Resp: 34655
Ion Ratio Lower Upper
164 100
166 118.8 102.3 153.5
129 91.9 78.2 117.4
131 90.0 75.7 113.5





#53

Toluene

Concen: 0.46 ppbv

RT: 11.23 min Scan# 1335

Delta R.T. 0.01 min

Lab File: VL026222.D

Acq: 21 Oct 2015 1:41

Instrument :

MSVOA_L

ClientSampleId :

ERD45INFLUENT-100215

Tot Ion: 91 Resp: 112790

Ion Ratio Lower Upper

91 100

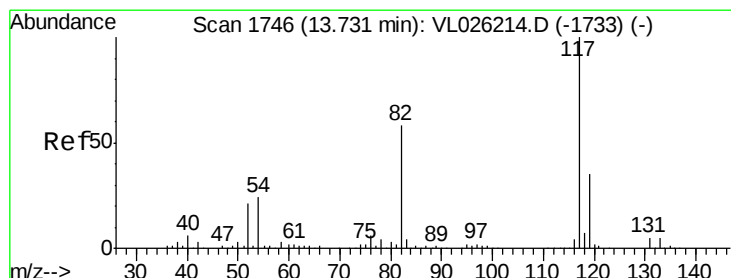
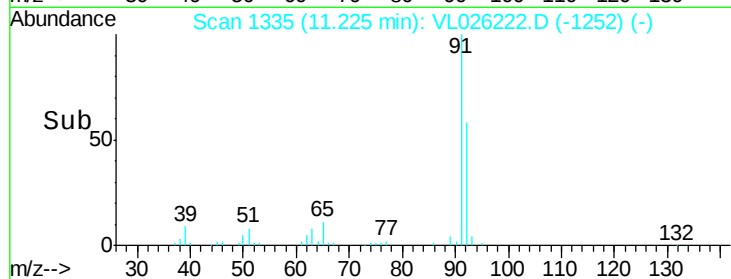
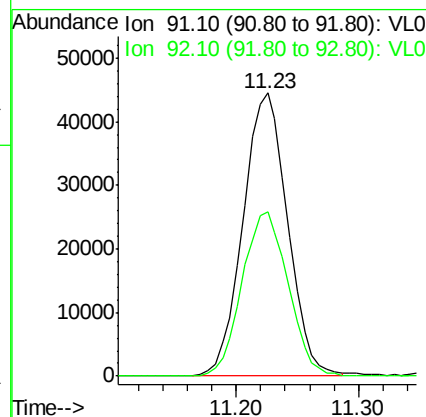
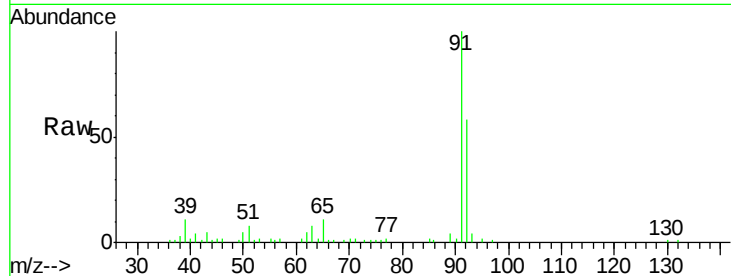
92 59.6 49.2 73.8

Manual Integrations

APPROVED

MMDadoda

10/22/2015 4:32:11 PM



#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 13.72 min Scan# 1744

Delta R.T. -0.01 min

Lab File: VL026222.D

Acq: 21 Oct 2015 1:41

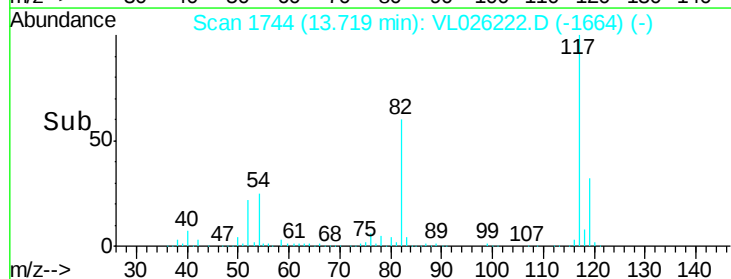
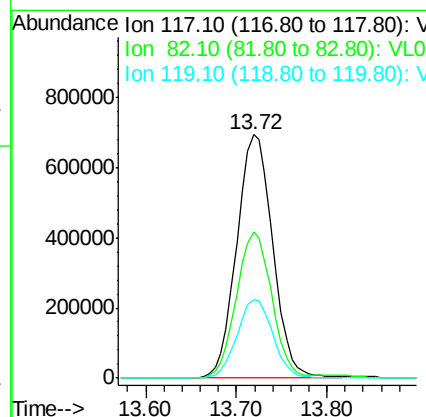
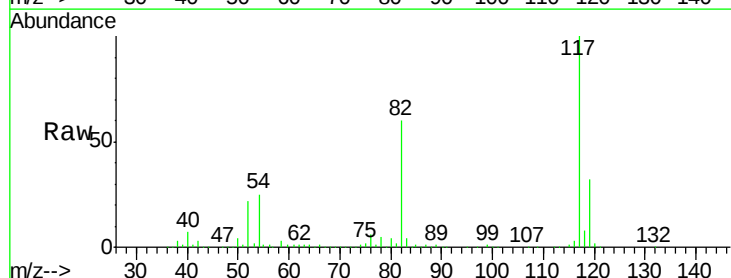
Tgt Ion: 117 Resp: 1914313

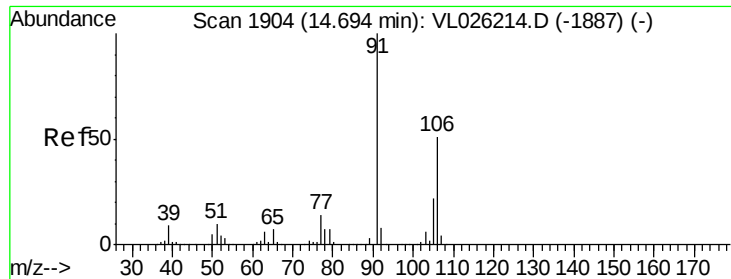
Ion Ratio Lower Upper

117 100

82 60.8 45.8 68.8

119 32.6 45.0 67.4#





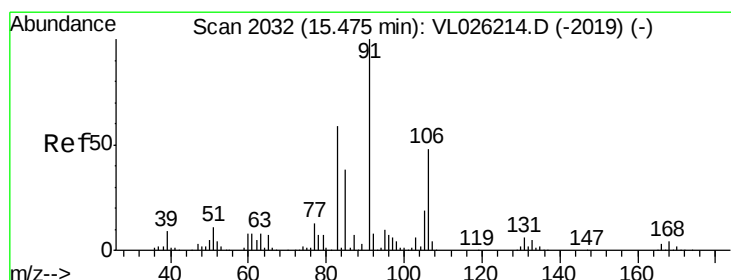
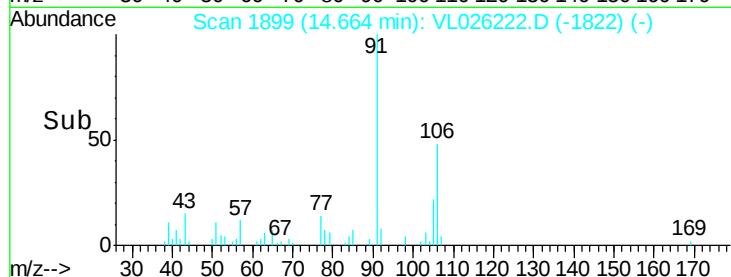
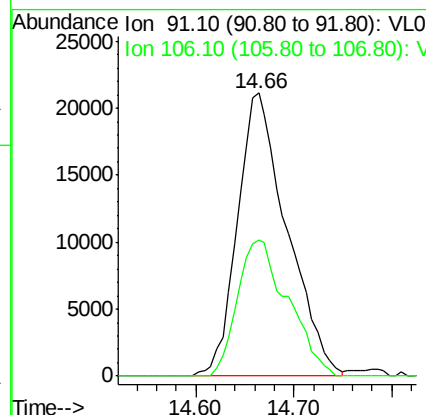
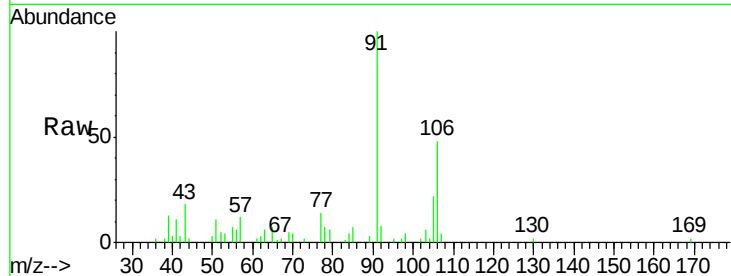
#59
m/p-Xylene
Concen: 0.31 ppbv
RT: 14.66 min Scan# 1899
Delta R.T. -0.03 min
Lab File: VL026222.D
Acq: 21 Oct 2015 1:41

Instrument :
MSVOA_L
ClientSampleId :
ERD45INFLUENT-100215

Tot Ion: 91 Resp: 74295
Ion Ratio Lower Upper
91 100
106 48.7 40.6 61.0

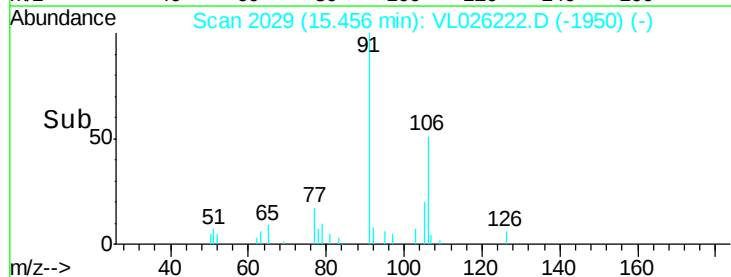
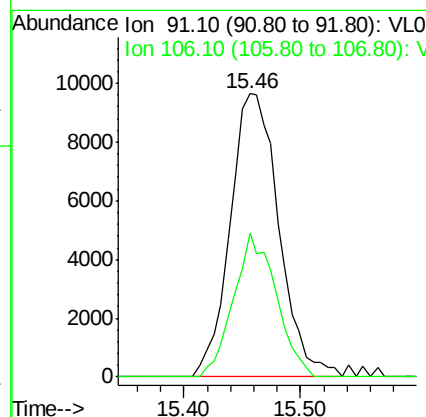
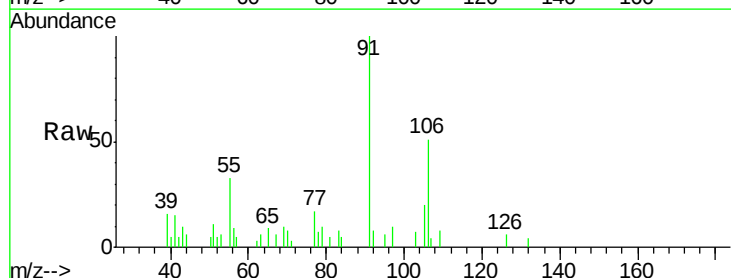
Manual Integrations
APPROVED

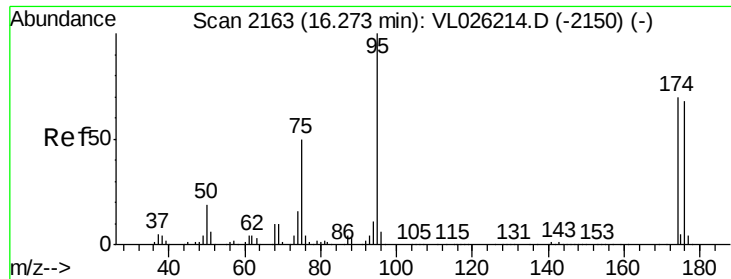
MMDadoda
10/22/2015 4:32:11 PM



#60
o-Xylene
Concen: 0.11 ppbv
RT: 15.46 min Scan# 2029
Delta R.T. -0.02 min
Lab File: VL026222.D
Acq: 21 Oct 2015 1:41

Tgt Ion: 91 Resp: 28055
Ion Ratio Lower Upper
91 100
106 44.4 23.8 71.5





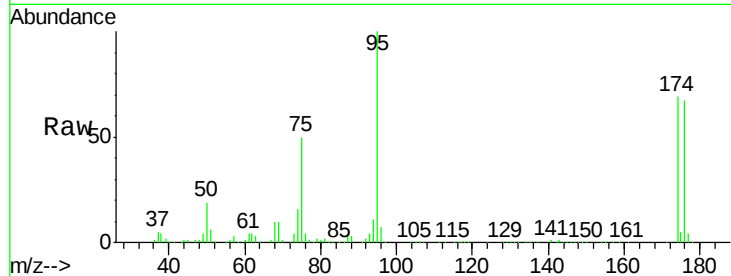
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.43 ppbv
 RT: 16.25 min Scan# 2160
 Delta R.T. -0.02 min
 Lab File: VL026222.D
 Acq: 21 Oct 2015 1:41

Instrument :
 MSVOA_L
 ClientSampleId :
 ERD45INFLUENT-100215

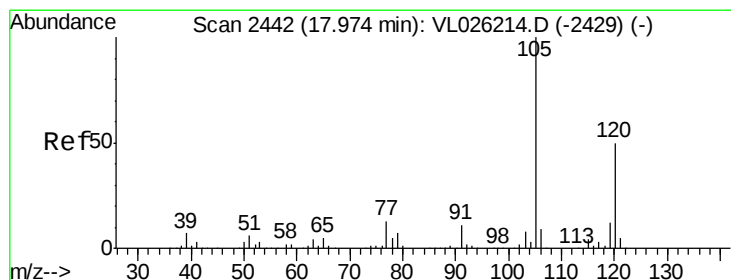
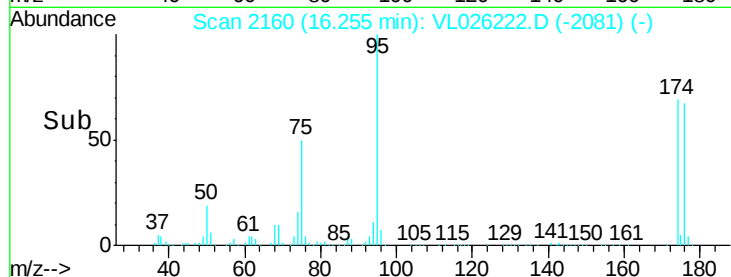
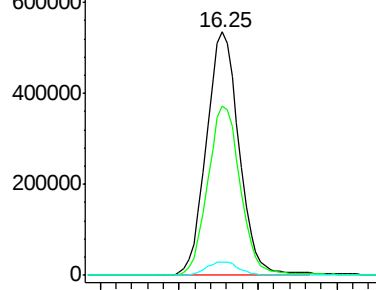
Tot Ion: 95 Resp: 1540085
 Ion Ratio Lower Upper
 95 100
 174 70.3 55.8 83.8
 175 5.6 4.3 6.5

Manual Integrations
 APPROVED

MMDadoda
 10/22/2015 4:32:11 PM

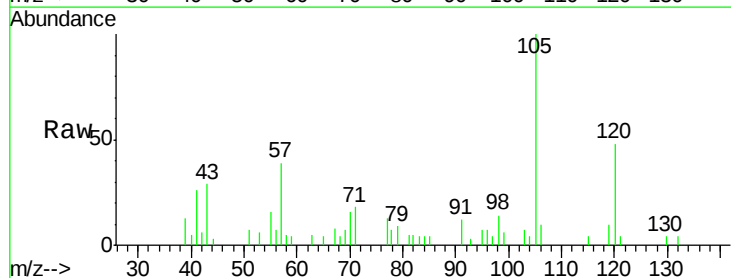


Abundance Ion 95.10 (94.80 to 95.80): VL0
 Ion 174.00 (173.70 to 174.70): V
 Ion 175.00 (174.70 to 175.70): V

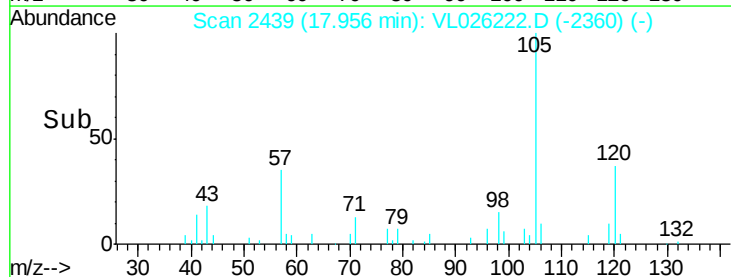
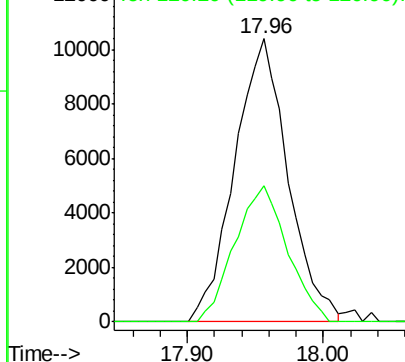


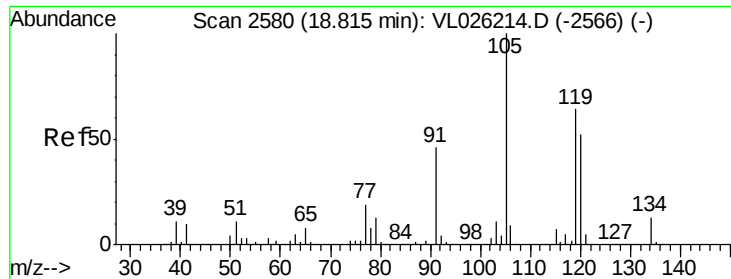
#73
 1,3,5-Trimethylbenzene
 Concen: 0.10 ppbv
 RT: 17.96 min Scan# 2439
 Delta R.T. -0.02 min
 Lab File: VL026222.D
 Acq: 21 Oct 2015 1:41

Tgt Ion: 105 Resp: 28497
 Ion Ratio Lower Upper
 105 100
 120 48.0 39.8 59.6



Abundance Ion 105.10 (104.80 to 105.80): V
 Ion 120.20 (119.90 to 120.90): V





#74
 1,2,4-Trimethylbenzene
 Concen: 0.31 ppbv
 RT: 18.80 min Scan# 2577
 Delta R.T. -0.02 min
 Lab File: VL026222.D
 Acq: 21 Oct 2015 1:41

Instrument :
 MSVOA_L
 ClientSampleId :
 ERD45INFLUENT-100215

Tot Ion:	105	Resp:	88931
Ion Ratio	Lower	Upper	
105	100		
120	50.6	41.2	61.8
91	11.7	37.2	55.8
77	15.2	15.6	23.4

Manual Integrations
 APPROVED

MMDadoda
 10/22/2015 4:32:11 PM

