

Data Path : W:\HPCHEM1\MSVOA H\DATA\XH091715\
 Data File : VH057073.D
 Acq On : 17 Sep 2015 19:02
 Operator : SY/FY
 Sample : VSTDICCC050
 Misc : 5mL/MSVOA H/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_H
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

MMDadoda
 9/18/2015 3:41:08 PM

Quant Time: Sep 18 09:42:48 2015
 Quant Method : W:\HPCHEM1\MSVOA_H\METHODS\82H091715W.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 18 09:34:12 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.85	168	766717	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.57	114	1421414	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.73	117	1172798	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.49	152	358976	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.81	65	665826	55.01	ug/l	0.00
Spiked Amount 50.000	Range 66 - 150		Recovery =	110.02%		
35) Dibromofluoromethane	4.08	113	575330	55.92	ug/l	0.00
Spiked Amount 50.000	Range 76 - 130		Recovery =	111.84%		
48) Toluene-d8	7.52	98	1624646	59.48	ug/l	0.00
Spiked Amount 50.000	Range 78 - 121		Recovery =	118.96%		
62) 4-Bromofluorobenzene	11.35	95	597740	60.04	ug/l	0.00
Spiked Amount 50.000	Range 70 - 131		Recovery =	120.08%		

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.93	85	474468	48.99	ug/l	96
3) Chloromethane	1.03	50	598609	44.26	ug/l	96
4) Vinyl Chloride	1.08	62	490632	44.09	ug/l	99
5) Bromomethane	1.26	94	227935	41.49	ug/l	95
6) Chloroethane	1.35	64	214601	38.41	ug/l	95
7) Trichlorofluoromethane	1.40	101	498327m	60.31	ug/l	
8) Tert butyl alcohol	2.55	59	599907	235.43	ug/l #	95
9) Diethyl Ether	1.61	74	228103	41.49	ug/l	79
10) Diisopropyl ether	2.79	45	1672392	41.95	ug/l	99
11) 1,1-Dichloroethene	1.76	96	338503	43.40	ug/l	95
12) Methyl Iodide	1.87	142	590996	45.82	ug/l	98
13) Acrolein	1.97	56	361234	217.31	ug/l	97
14) 1,1,2-Trichlorotrifluoroet	1.80	101	330715	44.27	ug/l	98
15) Acrylonitrile	2.91	53	1092199	192.00	ug/l	96
16) Allyl Chloride	2.08	41	707199	39.49	ug/l	92
17) Acetone	2.21	43	1484051	237.21	ug/l	100
18) Carbon Disulfide	1.78	76	1012934	42.28	ug/l	98
19) Methyl Acetate	2.32	43	1697867	38.04	ug/l	100
20) Methyl tert-butyl Ether	2.40	73	1379008	45.35	ug/l	96
21) Methylene Chloride	2.15	84	370984m	41.76	ug/l	
22) trans-1,2-Dichloroethene	2.29	96	379743	44.15	ug/l	97
23) Vinyl Acetate	3.17	43	3949308	226.15	ug/l	99
24) 1,1-Dichloroethane	2.85	63	802945	42.95	ug/l	99
25) 2-Butanone	4.31	43	3047220	220.67	ug/l	99
26) 2,2-Dichloropropane	3.57	77	498460	48.53	ug/l	98
27) cis-1,2-Dichloroethene	3.45	96	530045	48.89	ug/l	97
28) Bromochloromethane	3.69	128	189555	46.85	ug/l	88
29) Chloroform	3.83	83	967556	49.38	ug/l	98
30) Cyclohexane	3.67	56	659068	46.17	ug/l	94
31) Tetrahydrofuran	4.05	42	1769630	220.53	ug/l	96
32) 1,1,1-Trichloroethane	4.06	97	639989	47.04	ug/l	98
36) 1,1-Dichloropropene	4.25	75	742006	50.90	ug/l	96
37) Ethyl acetate	4.08	43	1391317	45.64	ug/l #	55
38) Carbon Tetrachloride	3.97	117	588150	51.20	ug/l	94

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Benzene	4.60	78	1774968	48.47	ug/l	98
40) Methacrylonitrile	4.72	41	645379	45.62	ug/l	93
41) 1,2-Dichloroethane	4.92	62	796645	50.75	ug/l	98
42) Isopropyl Acetate	5.46	43	1833145	46.51	ug/l	98
43) Trichloroethene	5.48	130	471465	51.77	ug/l	93
44) Methylcyclohexane	5.43	83	441140	48.89	ug/l	99
45) 1,2-Dichloropropane	6.19	63	576683	48.96	ug/l	99
46) Dibromomethane	6.06	93	372158	50.28	ug/l	98
47) Bromodichloromethane	6.35	83	775355	51.31	ug/l	98
49) 4-Methyl-2-Pentanone	8.22	43	5520065	228.48	ug/l	99
50) Toluene	7.58	92	1156134	49.37	ug/l	92
51) t-1,3-Dichloropropene	8.24	75	910321	52.32	ug/l	99
52) Methyl Methacrylate	6.69	69	599262	50.46	ug/l	95
53) 1,4-Dioxane	6.68	88	131444	1127.51	ug/l	97
54) cis-1,3-Dichloropropene	7.27	75	937739	49.40	ug/l	96
55) 1,1,2-Trichloroethane	8.44	97	521637	54.71	ug/l	98
56) Ethyl Methacrylate	8.58	69	1038070	52.49	ug/l	94
57) 1,3-Dichloropropane	8.80	76	1044211	52.21	ug/l	99
58) 2-Chloroethyl Vinyl ether	7.26	63	2661504	156.76	ug/l	98
59) 2-Hexanone	9.44	43	4364922	247.78	ug/l	99
60) Dibromochloromethane	8.66	129	583753	53.94	ug/l	98
61) 1,2-Dibromoethane	8.94	107	606841	54.34	ug/l	100
64) Tetrachloroethene	8.11	164	317705	48.08	ug/l	91
65) Chlorobenzene	9.75	112	1307423	53.40	ug/l	97
66) 1,1,1,2-Tetrachloroethane	9.87	131	439603	51.13	ug/l	95
67) Ethyl Benzene	9.85	106	598700	48.78	ug/l	96
68) m/p-Xylenes	10.08	106	1498122	101.60	ug/l	98
69) o-Xylene	10.66	106	713695	50.15	ug/l	96
70) Styrene	10.73	104	1266471	52.81	ug/l	99
71) Bromoform	10.72	173	385538	54.78	ug/l	96
73) Isopropylbenzene	11.07	105	1509508	44.74	ug/l	100
74) n-Amyl Acetate	11.32	43	1589791	43.33	ug/l	96
75) 1,1,2,2-Tetrachloroethane	11.64	83	791159	45.36	ug/l	97
76) 1,2,3-Trichloropropane	11.73	75	617420	45.48	ug/l	96
77) Bromobenzene	11.44	156	449490	49.41	ug/l	87
78) n-propylbenzene	11.54	91	1667571	47.00	ug/l	98
79) 2-Chlorotoluene	11.66	91	978575	45.53	ug/l	97
80) 1,3,5-Trimethylbenzene	11.77	105	1004728	48.14	ug/l	99
81) trans-1,4-Dichloro-2-Buten	11.81	75	454514	43.84	ug/l	98
82) 4-Chlorotoluene	11.84	91	1235529	48.11	ug/l	94
83) tert-Butylbenzene	12.07	119	923753	47.06	ug/l	99
84) 1,2,4-Trimethylbenzene	12.14	105	1052588	49.91	ug/l	100
85) sec-Butylbenzene	12.25	105	1054142	50.47	ug/l	100
86) p-Isopropyltoluene	12.40	119	785664	49.05	ug/l	97
87) 1,3-Dichlorobenzene	12.42	146	529875	48.79	ug/l	100
88) 1,4-Dichlorobenzene	12.50	146	544889	47.66	ug/l	98
89) n-Butylbenzene	12.79	91	647007	51.55	ug/l	98
90) Hexachloroethane	12.85	117	167669	49.17	ug/l	97
91) 1,2-Dichlorobenzene	12.88	146	468907	50.21	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	13.57	75	90130	51.00	ug/l	80

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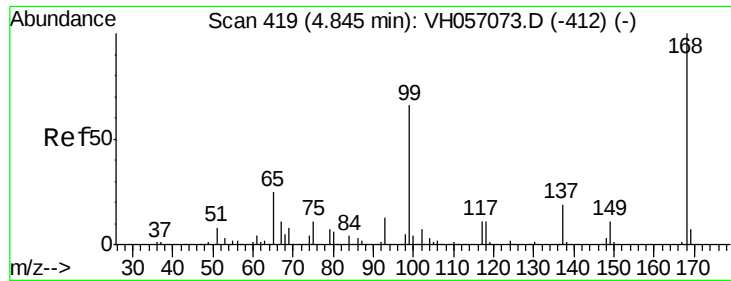
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.13	180	107771	64.15	ug/l	87
94) Hexachlorobutadiene	14.12	225	51873	61.26	ug/l	92
95) Naphthalene	14.38	128	397642	55.03	ug/l	97
96) 1,2,3-Trichlorobenzene	14.53	180	67239	63.08	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.85 min Scan# 419

Delta R.T. 0.00 min

Lab File: VH057073.D

Acq: 17 Sep 2015 19:02

Instrument :

MSVOA_H

ClientSampled :

VSTDICCC050

Tot Ion:168 Resp: 766717

Ion Ratio Lower Upper

168 100

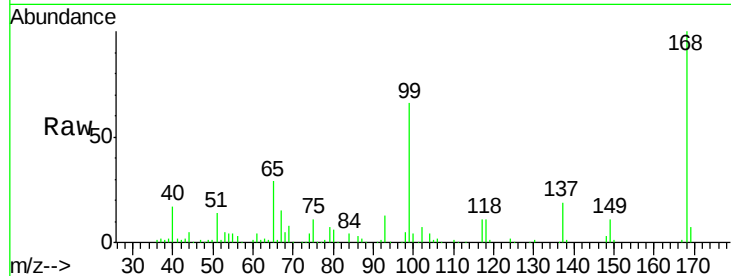
99 66.2 55.8 83.6

Manual Integrations

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Abundance Ion 168.00 (167.70 to 168.70): V

Ion 99.00 (98.70 to 99.70): VHC

4.85

250000

200000

150000

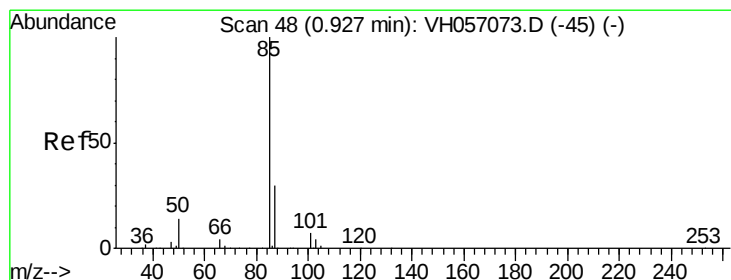
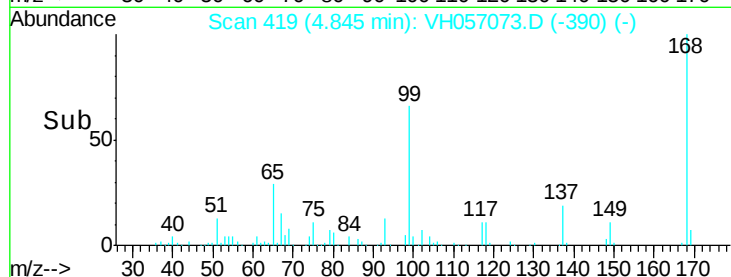
100000

50000

0

4.70 4.80 4.90 5.00

Time-->



#2

Dichlorodifluoromethane

Concen: 48.99 ug/l

RT: 0.93 min Scan# 48

Delta R.T. 0.00 min

Lab File: VH057073.D

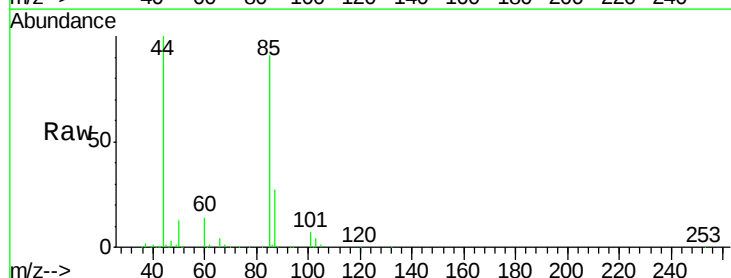
Acq: 17 Sep 2015 19:02

Tgt Ion: 85 Resp: 474468

Ion Ratio Lower Upper

85 100

87 29.7 16.0 47.9



Abundance Ion 85.00 (84.70 to 85.70): VHC

Ion 87.00 (86.70 to 87.70): VHC

0.93

150000

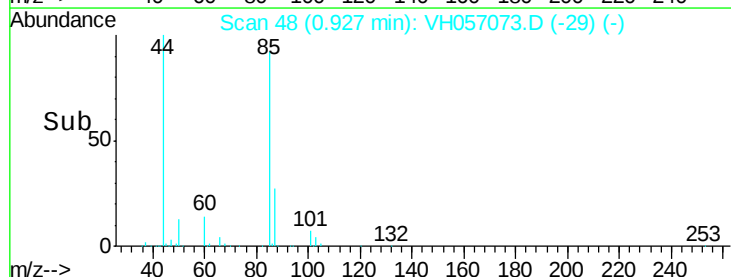
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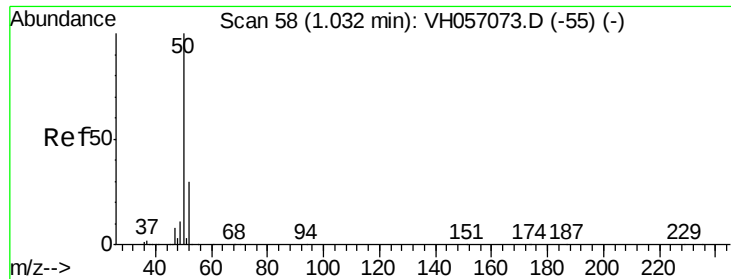
50000

0

0.80 0.90 1.00 1.10

Time-->





#3

Chloromethane

Concen: 44.26 ug/l

RT: 1.03 min Scan# 58

Delta R.T. 0.00 min

Lab File: VH057073.D

Acq: 17 Sep 2015 19:02

Instrument :

MSVOA_H

ClientSampleId :

VSTDICCC050

Tot Ion: 50 Resp: 598609

Ion Ratio Lower Upper

50 100

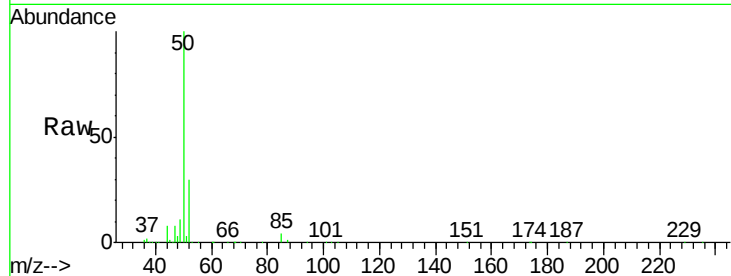
52 30.1 25.8 38.8

Manual Integrations

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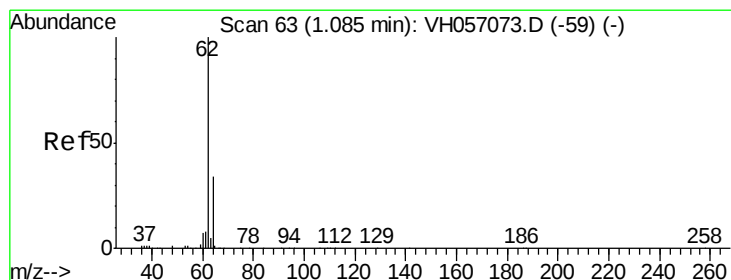
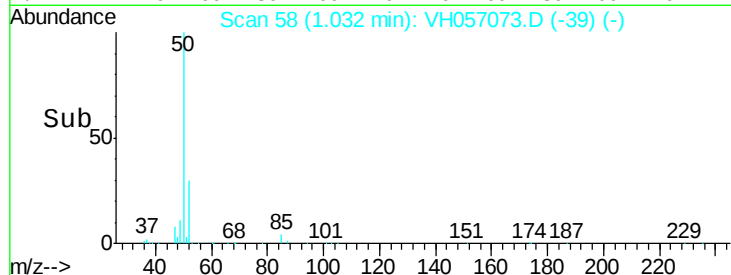
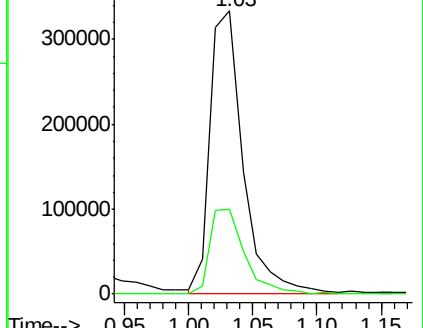
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Abundance Ion 50.00 (49.70 to 50.70): VH0

Ion 52.00 (51.70 to 52.70): VH0



#4

Vinyl Chloride

Concen: 44.09 ug/l

RT: 1.08 min Scan# 63

Delta R.T. 0.00 min

Lab File: VH057073.D

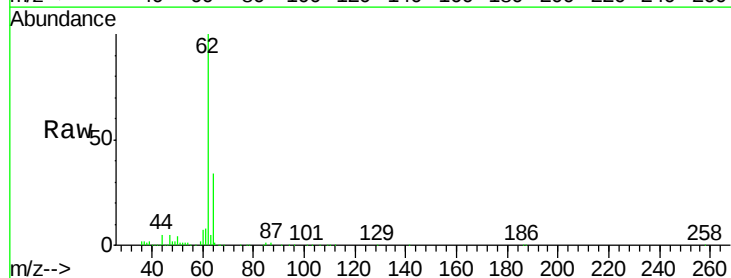
Acq: 17 Sep 2015 19:02

Tgt Ion: 62 Resp: 490632

Ion Ratio Lower Upper

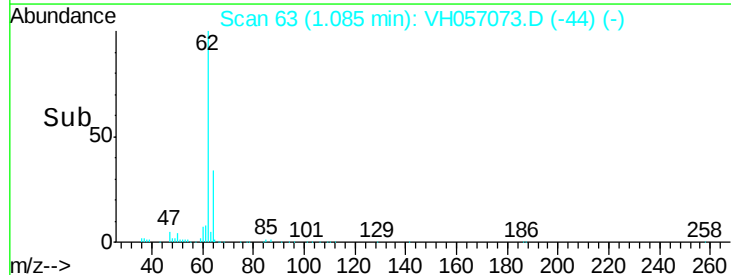
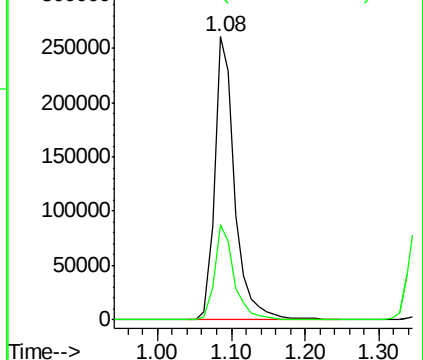
62 100

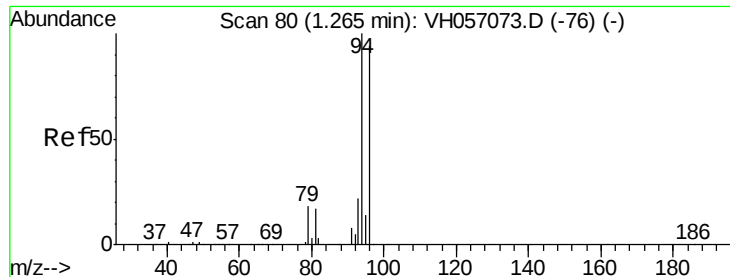
64 33.7 26.6 40.0



Abundance Ion 62.00 (61.70 to 62.70): VH0

Ion 64.00 (63.70 to 64.70): VH0





#5

Bromomethane

Concen: 41.49 ug/l

RT: 1.26 min Scan# 80

Delta R.T. 0.00 min

Lab File: VH057073.D

Acq: 17 Sep 2015 19:02

Instrument :

MSVOA_H

ClientSampleId :

VSTDICCC050

Tot Ion: 94 Resp: 227935

Ion Ratio Lower Upper

94 100

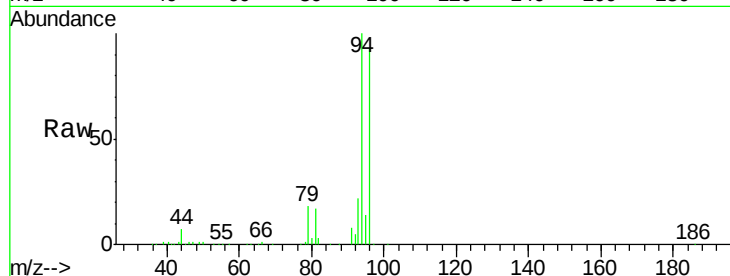
96 93.2 78.5 117.7

Manual Integrations

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Abundance Ion 94.00 (93.70 to 94.70): VH0

Ion 96.00 (95.70 to 96.70): VH0

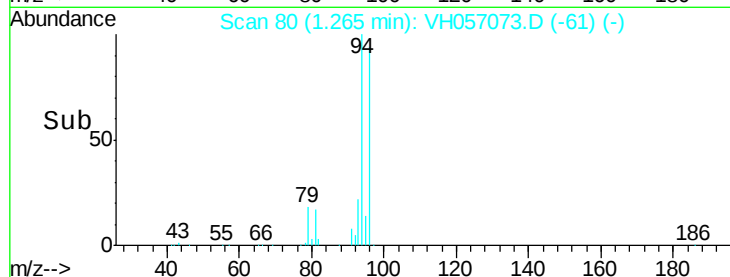
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100000

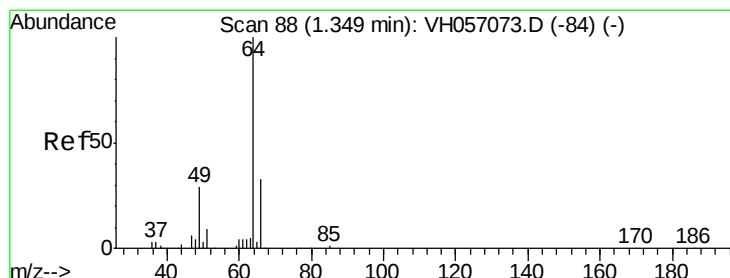
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0

Time-->



Time-->



#6

Chloroethane

Concen: 38.41 ug/l

RT: 1.35 min Scan# 88

Delta R.T. 0.00 min

Lab File: VH057073.D

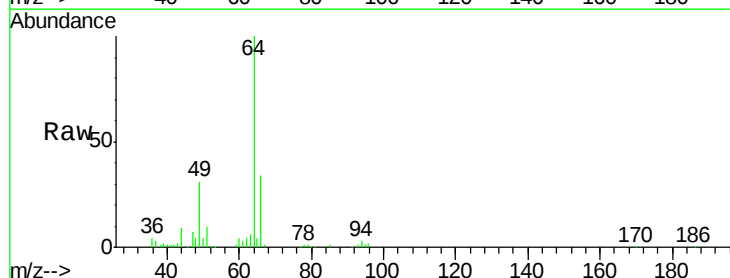
Acq: 17 Sep 2015 19:02

Tgt Ion: 64 Resp: 214601

Ion Ratio Lower Upper

64 100

66 34.1 25.2 37.8



Abundance Ion 64.00 (63.70 to 64.70): VH0

Ion 66.00 (65.70 to 66.70): VH0

100000

80000

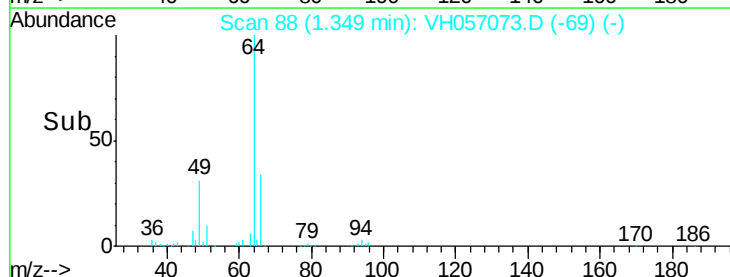
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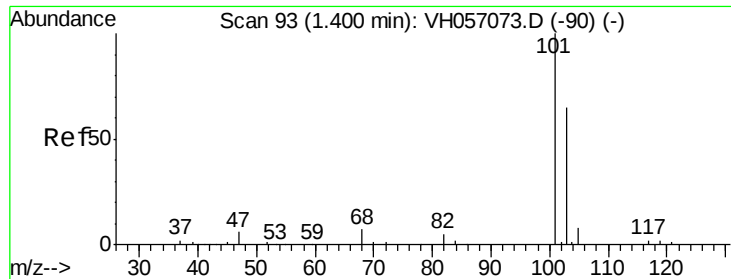
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0

Time-->



Time-->



#7

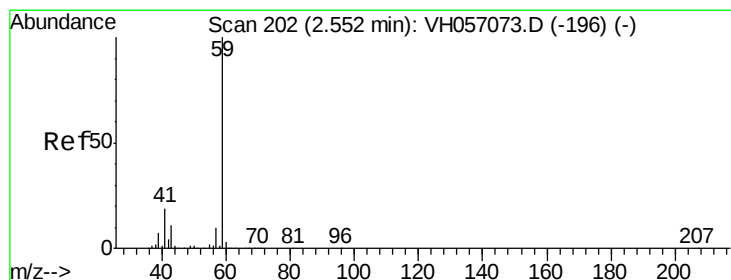
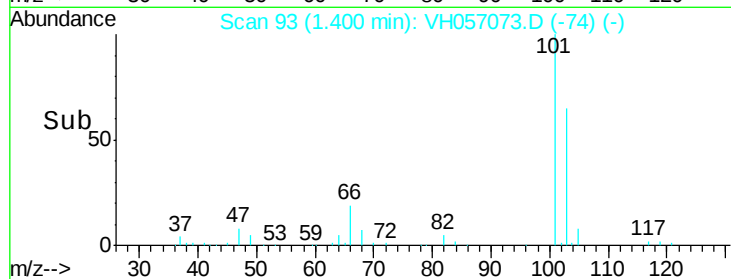
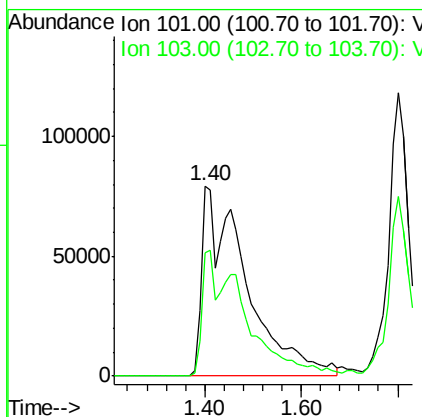
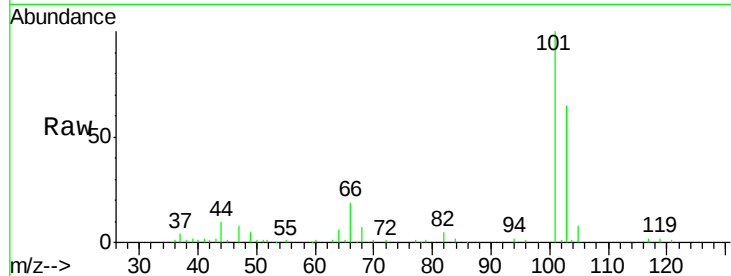
Trichlorofluoromethane
 Concen: 60.31 ug/l m
 RT: 1.40 min Scan# 93
 Delta R.T. 0.00 min
 Lab File: VH057073.D
 Acq: 17 Sep 2015 19:02

Instrument :
 MSVOA_H
 ClientSampleId :
 VSTDICCC050

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.9	54.9	82.3

Manual Integrations
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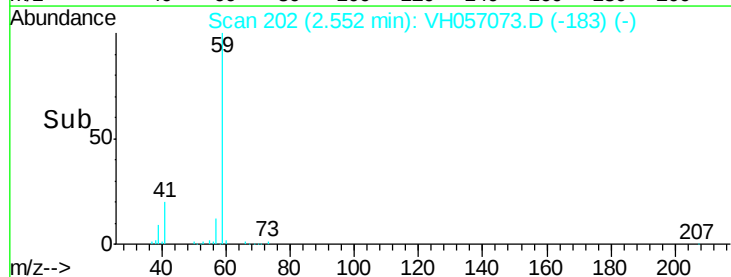
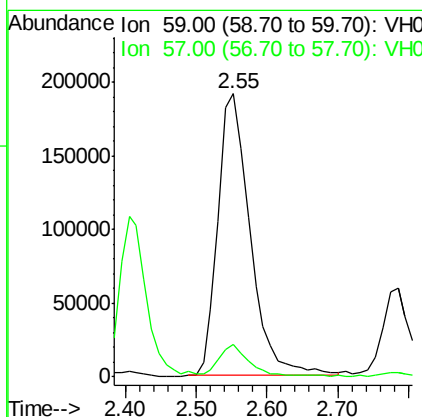
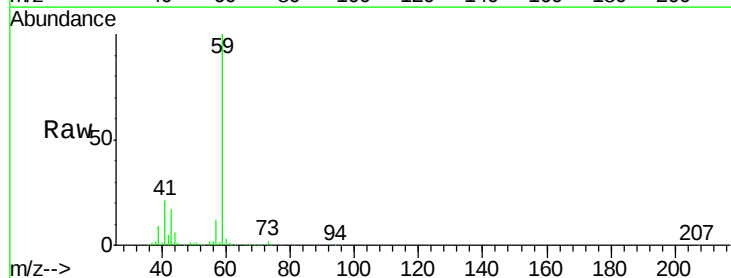
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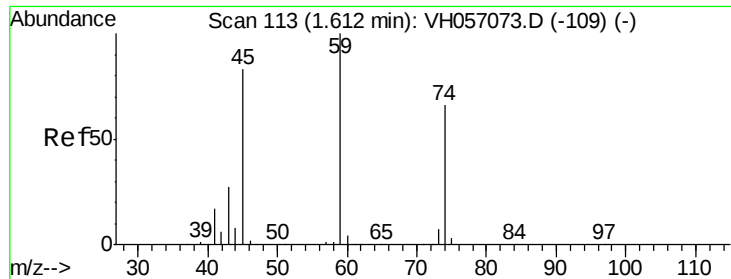


#8

Tert butyl alcohol
 Concen: 235.43 ug/l
 RT: 2.55 min Scan# 202
 Delta R.T. 0.00 min
 Lab File: VH057073.D
 Acq: 17 Sep 2015 19:02

Tgt Ion	Ratio	Lower	Upper
59	100		
57	11.7	9.0	11.0#





#9

Diethyl Ether

Concen: 41.49 ug/l

RT: 1.61 min Scan# 113

Delta R.T. 0.00 min

Lab File: VH057073.D

Acq: 17 Sep 2015 19:02

Instrument :

MSVOA_H

ClientSampleId :

VSTDICCC050

Tot Ion: 74 Resp: 228103

Ion Ratio Lower Upper

74 100

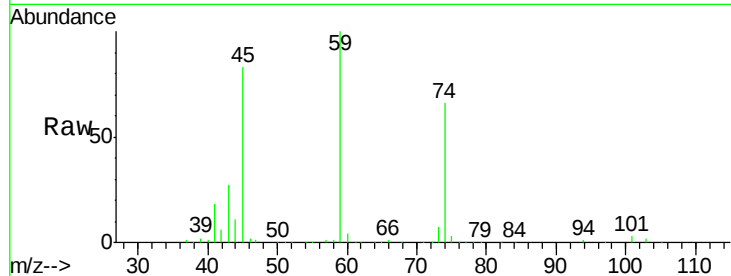
45 125.9 0.0 304.4

Manual Integrations

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Abundance Ion 74.00 (73.70 to 74.70): VH0

Ion 45.00 (44.70 to 45.70): VH0

200000

150000

100000

50000

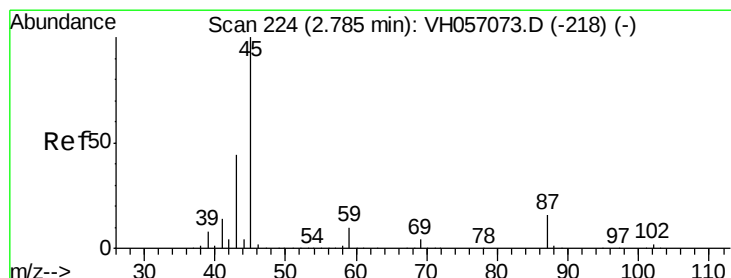
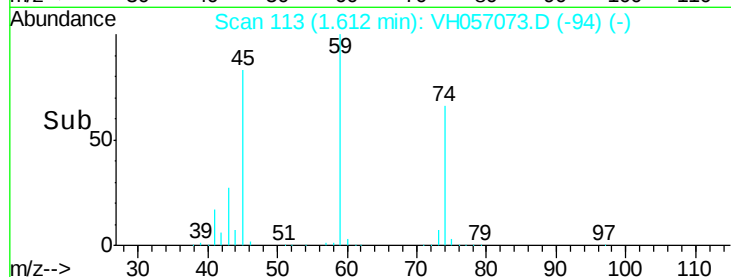
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1.61

1.60

1.70

Time-->



#10

Diisopropyl ether

Concen: 41.95 ug/l

RT: 2.79 min Scan# 224

Delta R.T. 0.00 min

Lab File: VH057073.D

Acq: 17 Sep 2015 19:02

Tgt Ion: 45 Resp: 1672392

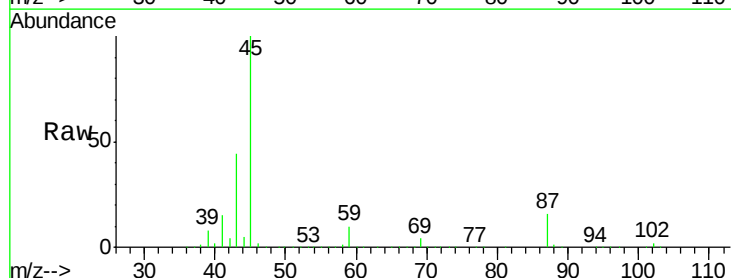
Ion Ratio Lower Upper

45 100

43 44.2 34.6 52.0

87 15.6 12.6 19.0

59 10.0 8.4 12.6



Abundance Ion 45.00 (44.70 to 45.70): VH0

Ion 43.00 (42.70 to 43.70): VH0

Ion 87.00 (86.70 to 87.70): VH0

Ion 59.00 (58.70 to 59.70): VH0

800000

600000

400000

200000

0

2.79

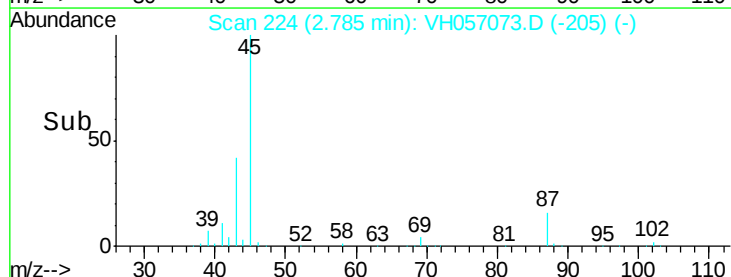
2.70

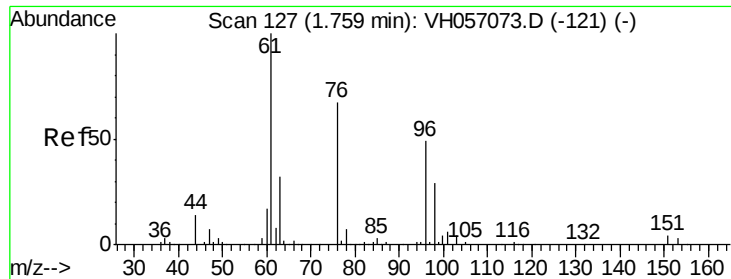
2.80

2.90

3.00

Time-->





#11

1,1-Dichloroethene

Concen: 43.40 ug/l

RT: 1.76 min Scan# 127

Delta R.T. 0.00 min

Lab File: VH057073.D

Acq: 17 Sep 2015 19:02

Instrument :

MSVOA_H

ClientSampleId :

VSTDICCC050

Tot Ion: 96 Resp: 338503

Ion Ratio Lower Upper

96 100

61 205.6 158.4 237.6

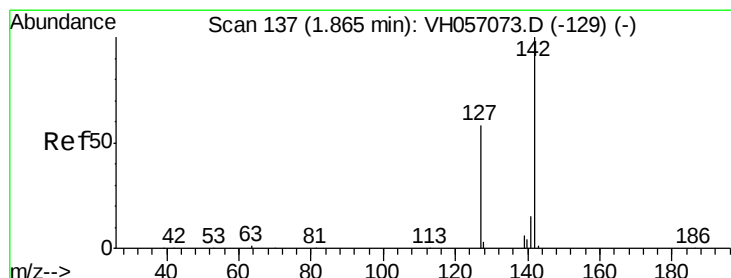
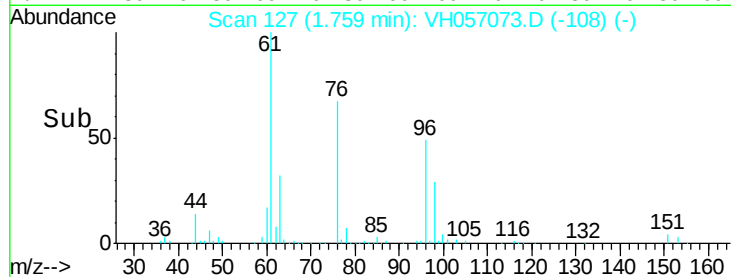
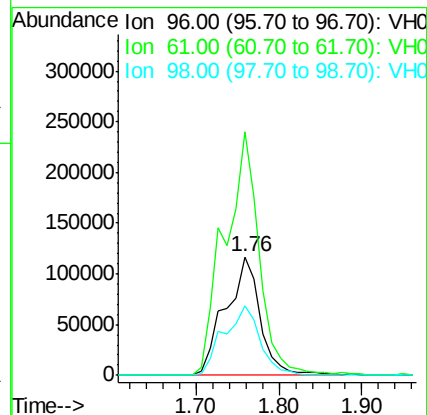
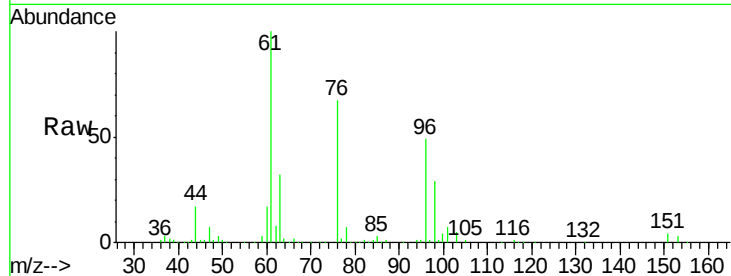
98 59.1 50.6 75.8

Manual Integrations

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#12

Methyl Iodide

Concen: 45.82 ug/l

RT: 1.87 min Scan# 137

Delta R.T. 0.00 min

Lab File: VH057073.D

Acq: 17 Sep 2015 19:02

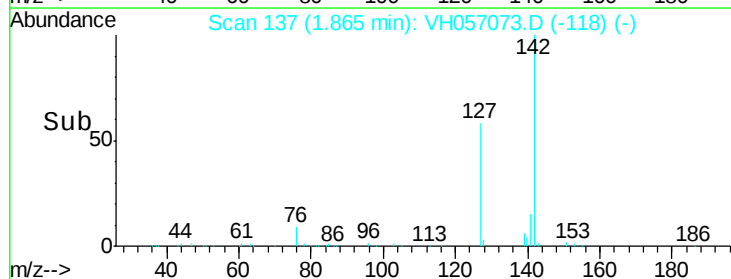
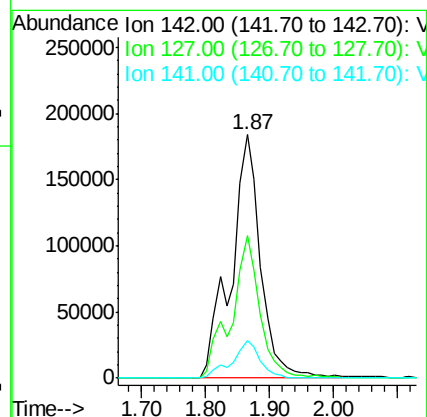
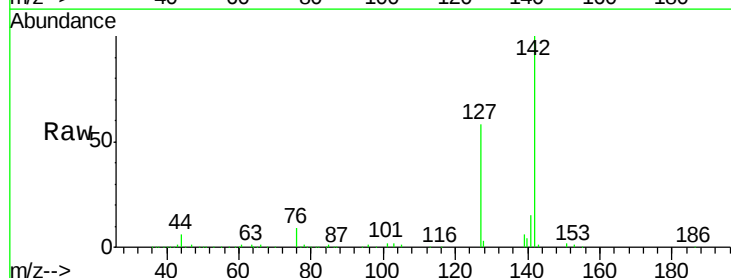
Tgt Ion: 142 Resp: 590996

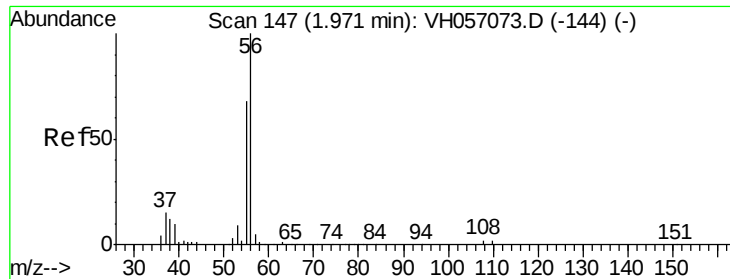
Ion Ratio Lower Upper

142 100

127 58.5 30.0 90.1

141 15.2 7.1 21.4





#13

Acrolein

Concen: 217.31 ug/l

RT: 1.97 min Scan# 147

Delta R.T. 0.00 min

Lab File: VH057073.D

Acq: 17 Sep 2015 19:02

Instrument :

MSVOA_H

ClientSampleId :

VSTDICCC050

Tot Ion: 56 Resp: 361234

Ion Ratio Lower Upper

56 100

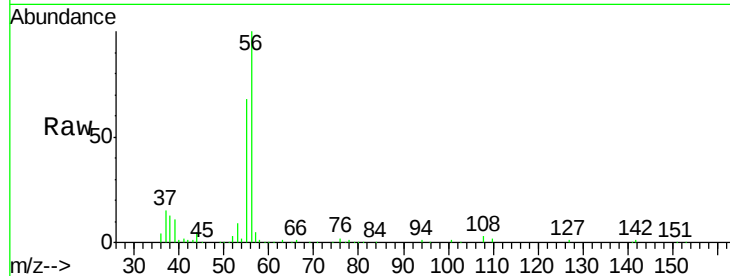
55 68.3 52.9 79.3

Manual Integrations

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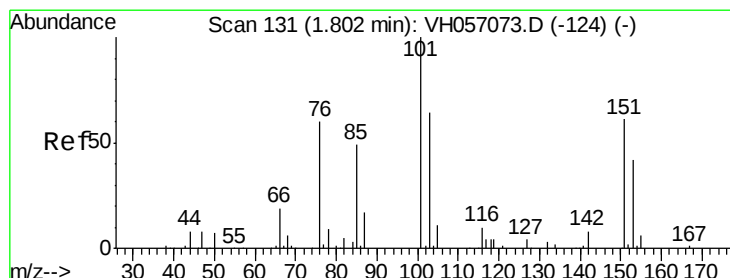
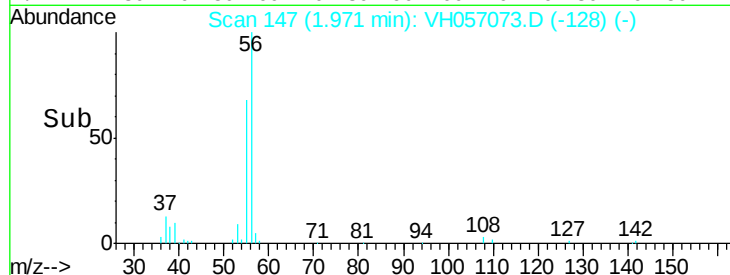
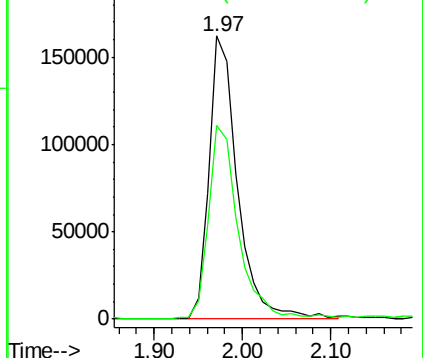
MMDadoda

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Abundance Ion 56.00 (55.70 to 56.70): VH0

Ion 55.00 (54.70 to 55.70): VH0



#14

1,1,2-Trichlorotrifluoroethane

Concen: 44.27 ug/l

RT: 1.80 min Scan# 131

Delta R.T. 0.00 min

Lab File: VH057073.D

Acq: 17 Sep 2015 19:02

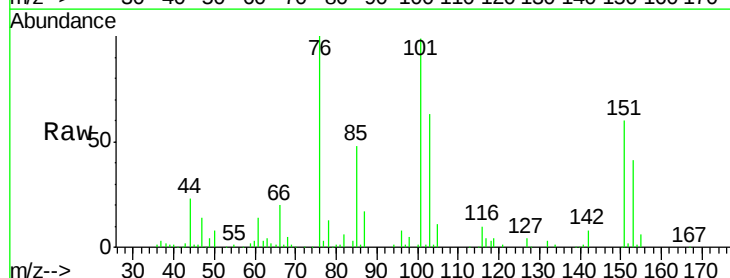
Tgt Ion:101 Resp: 330715

Ion Ratio Lower Upper

101 100

85 47.8 37.9 56.9

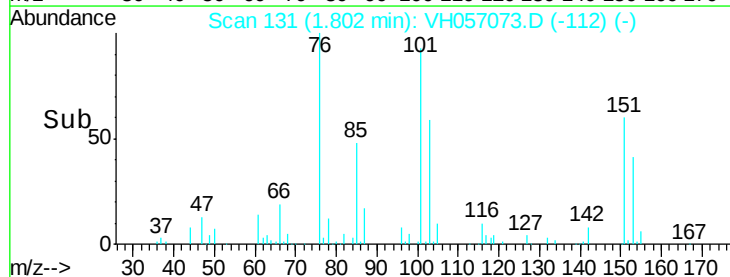
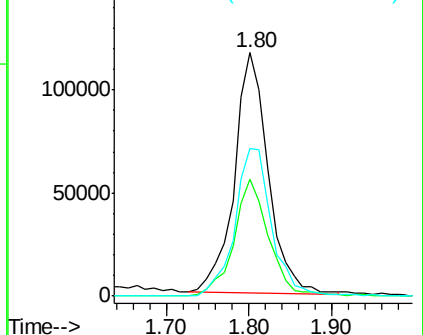
151 60.4 50.6 76.0

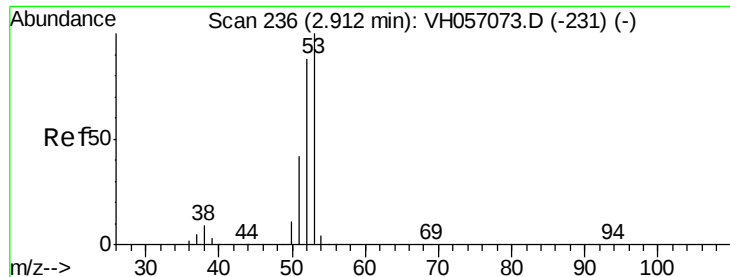


Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VH0

Ion 151.00 (150.70 to 151.70): V





#15

Acrylonitrile

Concen: 192.00 ug/l

RT: 2.91 min Scan# 236

Delta R.T. 0.00 min

Lab File: VH057073.D

Acq: 17 Sep 2015 19:02

Instrument :

MSVOA_H

ClientSampleId :

VSTDICCC050

Tot Ion: 53 Resp: 1092199

Ion Ratio Lower Upper

53 100

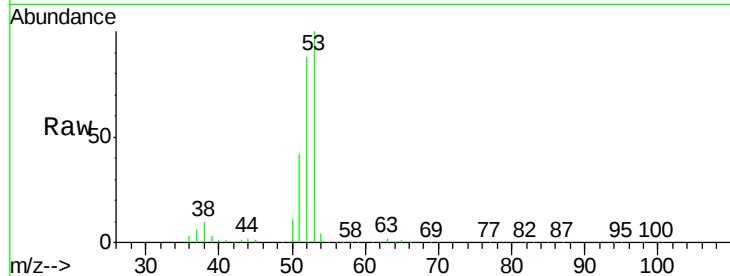
52 88.3 67.6 101.4

51 41.9 31.8 47.6

Manual Integrations
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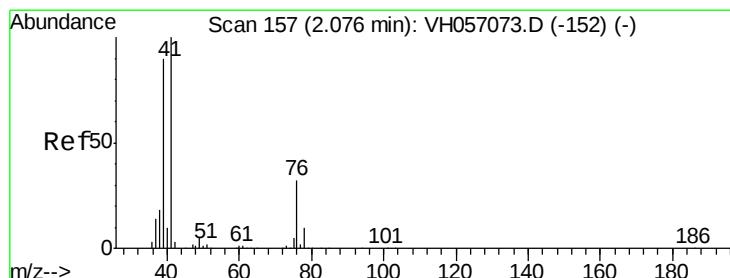
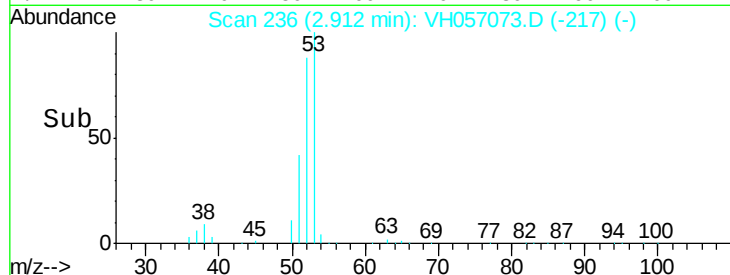
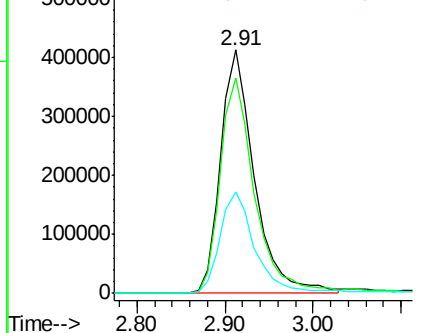
9/18/2015 3:41:08 PM



Abundance Ion 53.00 (52.70 to 53.70): VH0

Ion 52.00 (51.70 to 52.70): VH0

Ion 51.00 (50.70 to 51.70): VH0



#16

Allyl Chloride

Concen: 39.49 ug/l

RT: 2.08 min Scan# 157

Delta R.T. 0.00 min

Lab File: VH057073.D

Acq: 17 Sep 2015 19:02

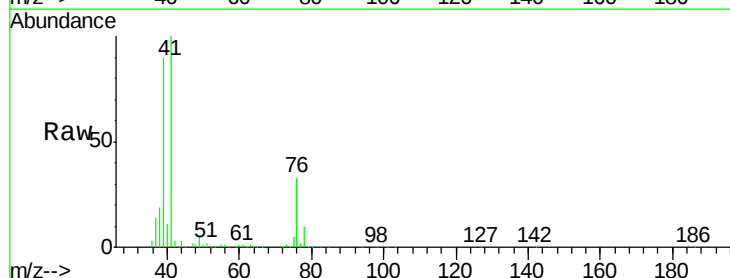
Tgt Ion: 41 Resp: 707199

Ion Ratio Lower Upper

41 100

39 90.0 41.0 123.2

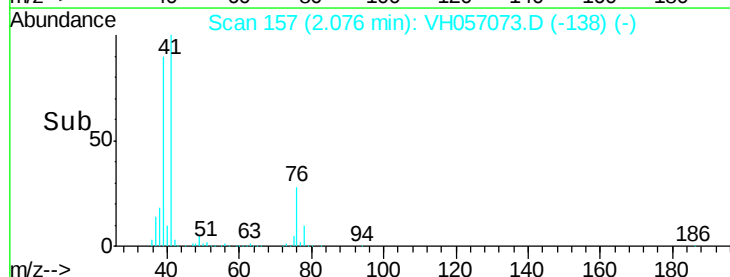
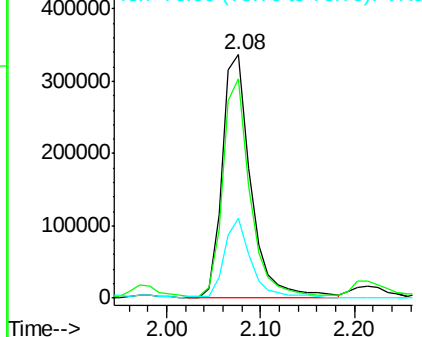
76 32.6 14.3 42.9

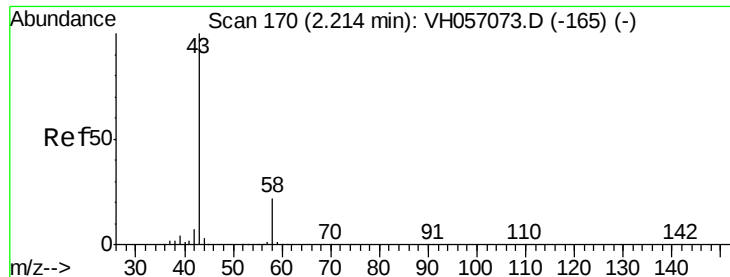


Abundance Ion 41.00 (40.70 to 41.70): VH0

Ion 39.00 (38.70 to 39.70): VH0

Ion 76.00 (75.70 to 76.70): VH0





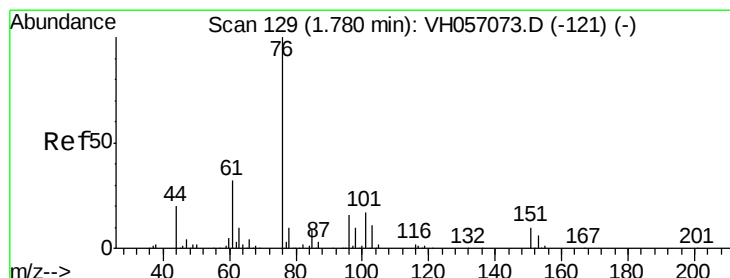
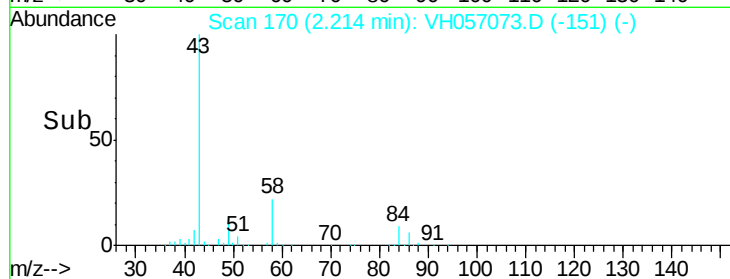
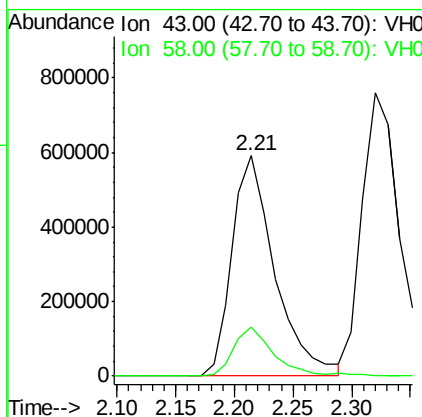
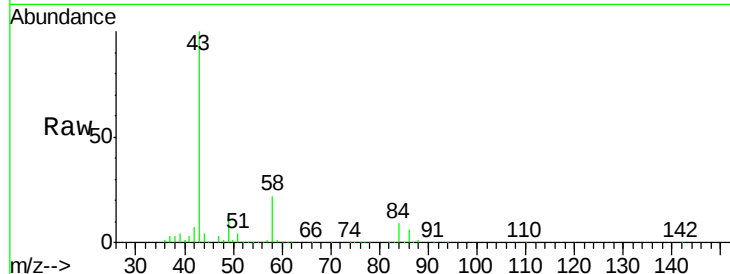
#17
Acetone
Concen: 237.21 ug/l
RT: 2.21 min Scan# 170
Delta R.T. 0.00 min
Lab File: VH057073.D
Acq: 17 Sep 2015 19:02

Instrument :
MSVOA_H
ClientSampleId :
VSTDICCC050

Tot Ion: 43 Resp: 1484051
Ion Ratio Lower Upper
43 100
58 22.1 17.7 26.5

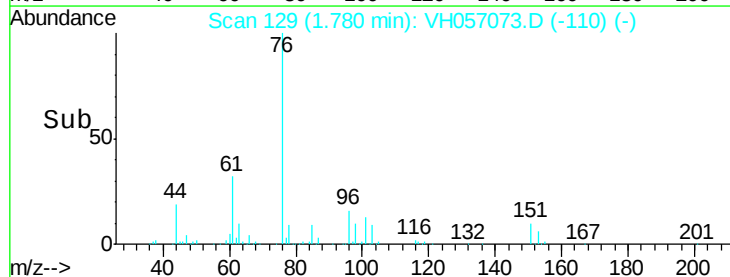
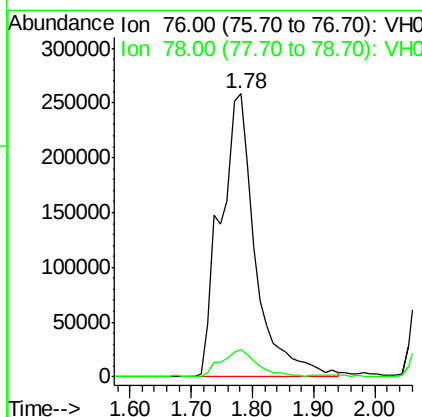
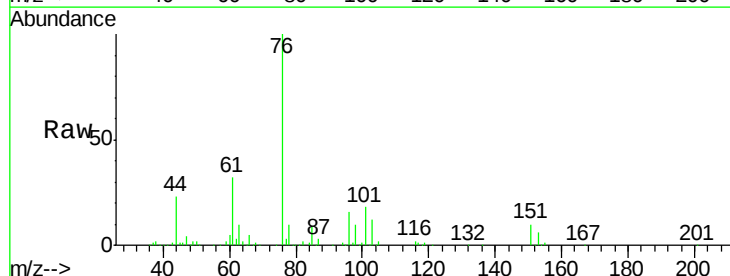
Manual Integrations
APPROVED

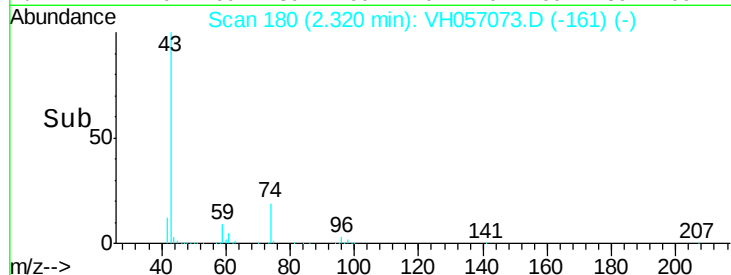
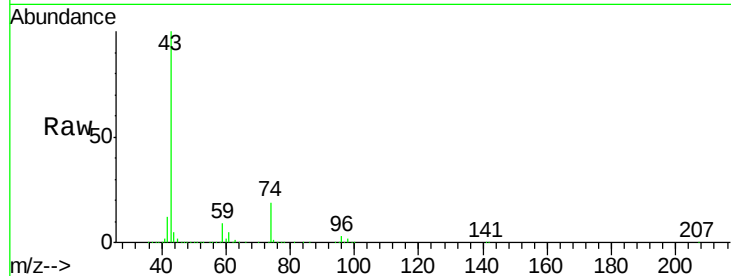
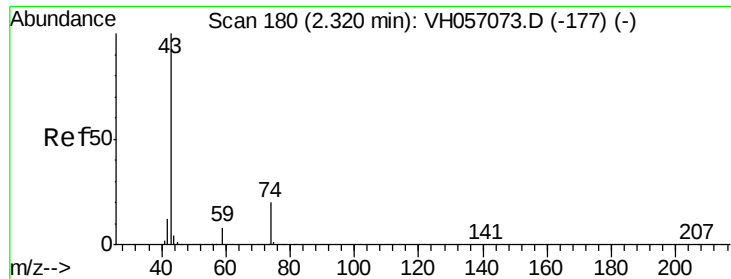
MMDadoda
9/18/2015 3:41:08 PM



#18
Carbon Disulfide
Concen: 42.28 ug/l
RT: 1.78 min Scan# 129
Delta R.T. 0.00 min
Lab File: VH057073.D
Acq: 17 Sep 2015 19:02

Tgt Ion: 76 Resp: 1012934
Ion Ratio Lower Upper
76 100
78 9.5 7.1 10.7





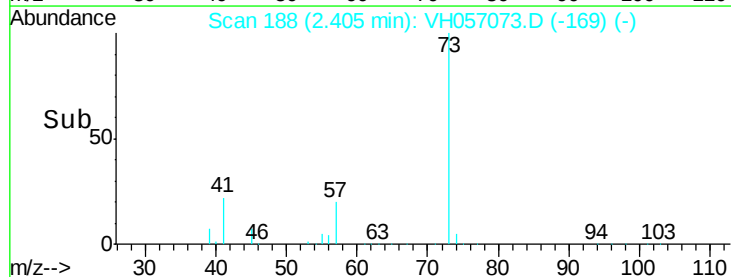
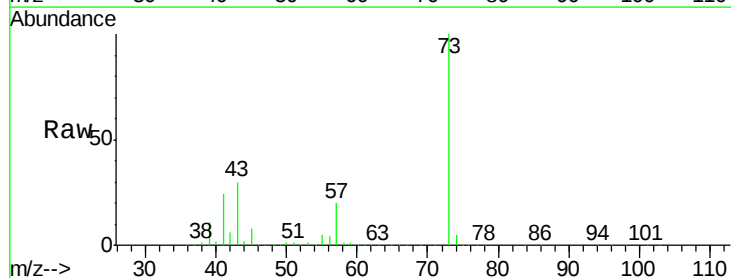
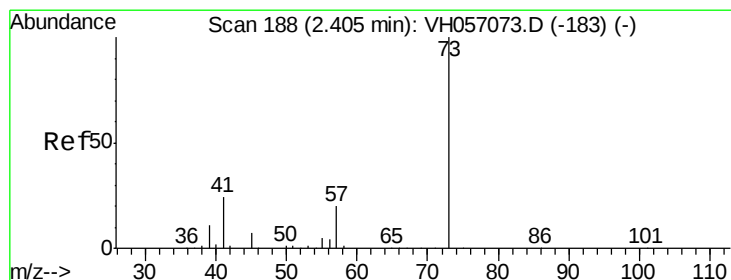
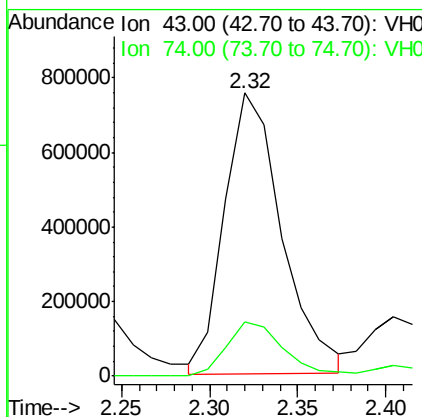
#19
Methyl Acetate
Concen: 38.04 ug/l
RT: 2.32 min Scan# 180
Delta R.T. 0.00 min
Lab File: VH057073.D
Acq: 17 Sep 2015 19:02

Tot Ion: 43 Resp: 1697867
Ion Ratio Lower Upper
43 100
74 19.1 13.3 24.7

Instrument :
MSVOA_H
ClientSampleId :
VSTDICCC050

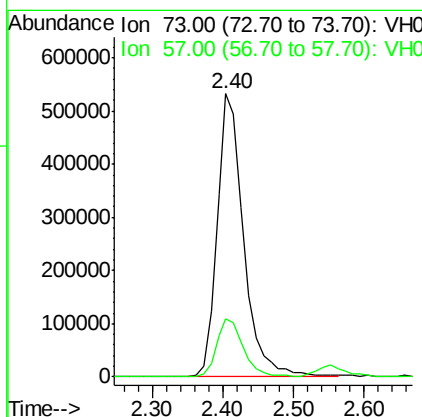
Manual Integrations
APPROVED

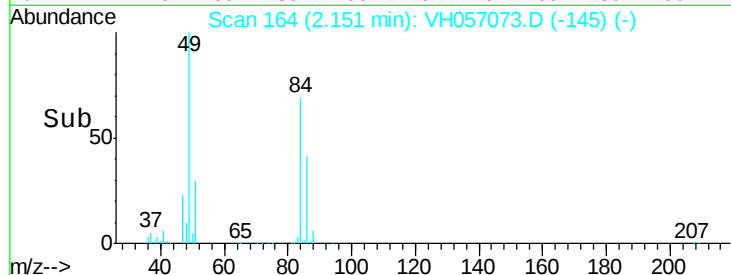
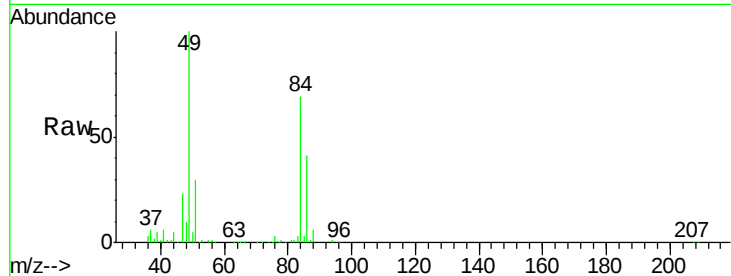
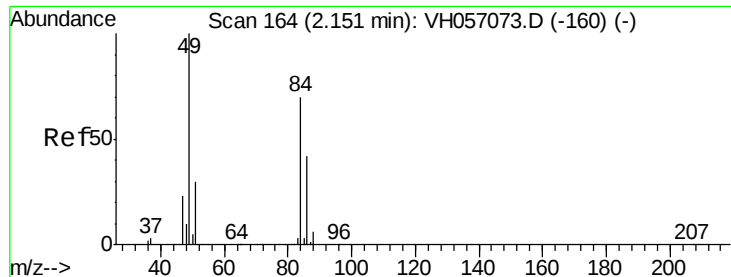
MMDadoda
9/18/2015 3:41:08 PM



#20
Methyl tert-butyl Ether
Concen: 45.35 ug/l
RT: 2.40 min Scan# 188
Delta R.T. 0.00 min
Lab File: VH057073.D
Acq: 17 Sep 2015 19:02

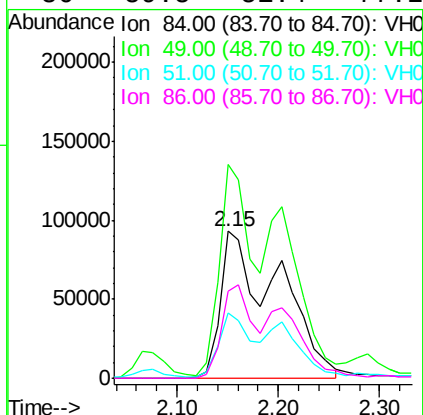
Tgt Ion: 73 Resp: 1379008
Ion Ratio Lower Upper
73 100
57 20.5 18.0 27.0





#21
Methvlene Chloride
Concen: 41.76 ug/l m
RT: 2.15 min Scan# 164
Delta R.T. 0.00 min
Lab File: VH057073.D
Acq: 17 Sep 2015 19:02

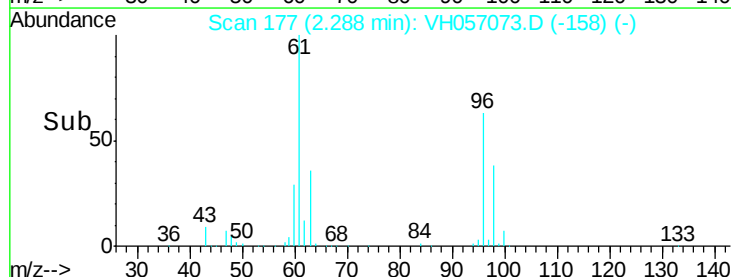
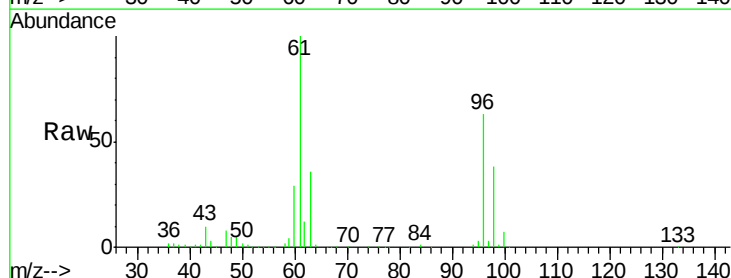
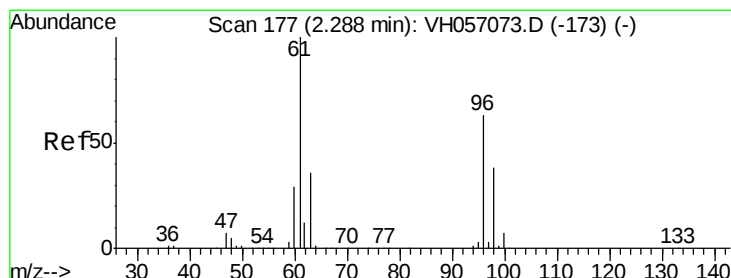
Tot Ion	Ion	Ratio	Lower	Upper
84	100			
49	145.4	132.8	199.2	
51	44.3	39.5	59.3	
86	59.5	51.4	77.2	



Instrument :
MSVOA_H
ClientSampleId :
VSTDICCC050

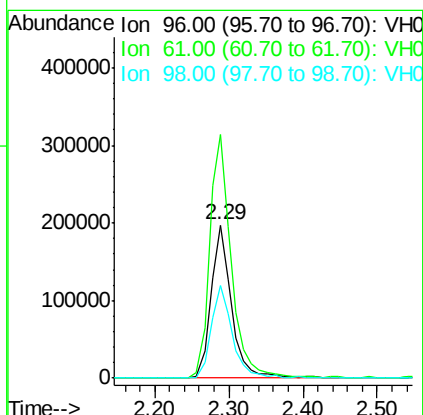
Manual Integrations
APPROVED

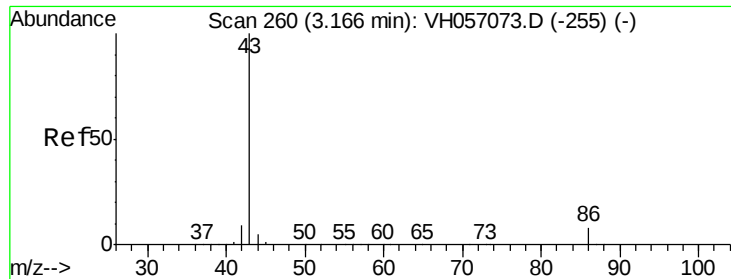
MMDadoda
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#22
trans-1,2-Dichloroethene
Concen: 44.15 ug/l
RT: 2.29 min Scan# 177
Delta R.T. 0.00 min
Lab File: VH057073.D
Acq: 17 Sep 2015 19:02

Tgt Ion	Ion	Ratio	Lower	Upper
96	100			
61	159.4	131.7	197.5	
98	60.2	49.5	74.3	





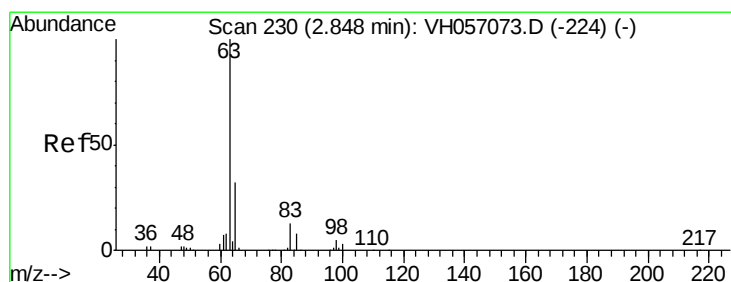
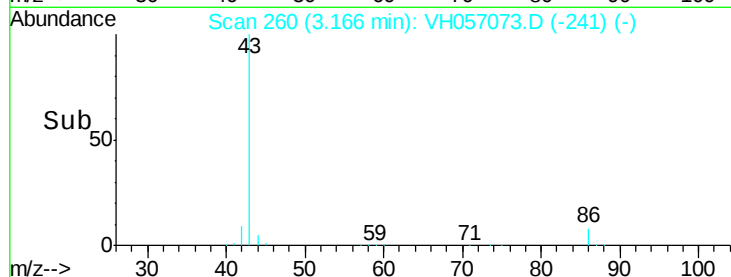
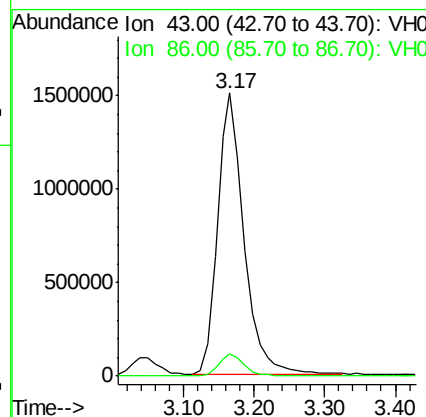
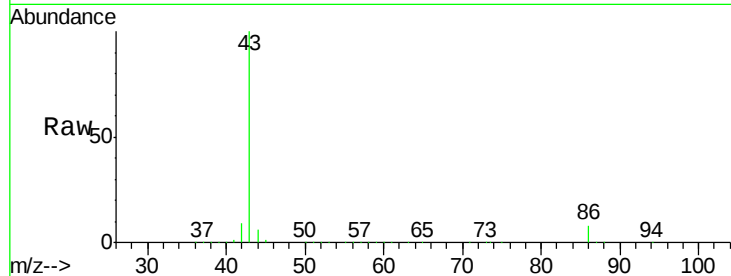
#23
 Vinyl Acetate
 Concen: 226.15 ug/l
 RT: 3.17 min Scan# 260
 Delta R.T. 0.00 min
 Lab File: VH057073.D
 Acq: 17 Sep 2015 19:02

Instrument :
 MSVOA_H
 ClientSampleId :
 VSTDICCC050

Tot Ion: 43 Resp: 3949308
 Ion Ratio Lower Upper
 43 100
 86 7.9 6.2 9.2

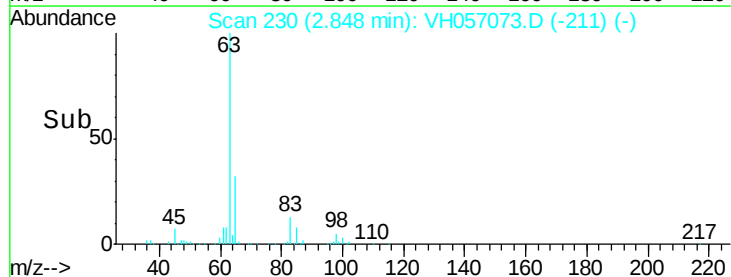
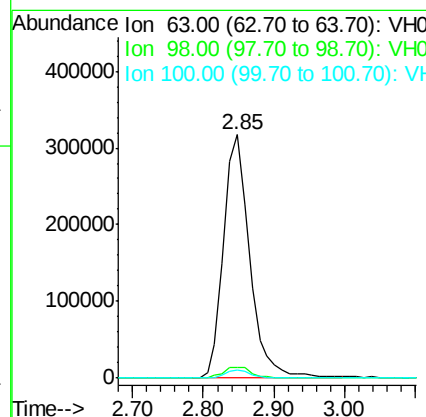
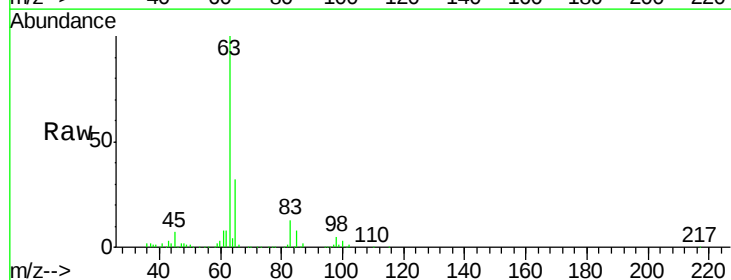
Manual Integrations
 APPROVED

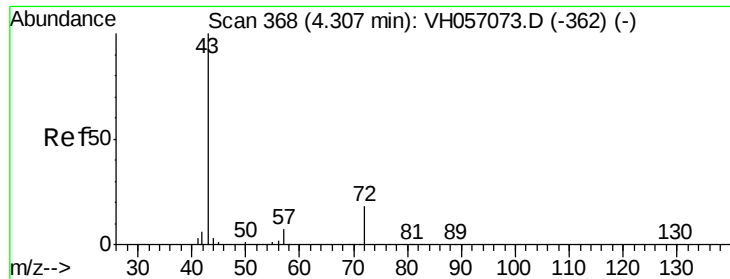
MMDadoda
 9/18/2015 3:41:08 PM



#24
 1,1-Dichloroethane
 Concen: 42.95 ug/l
 RT: 2.85 min Scan# 230
 Delta R.T. 0.00 min
 Lab File: VH057073.D
 Acq: 17 Sep 2015 19:02

Tgt Ion: 63 Resp: 802945
 Ion Ratio Lower Upper
 63 100
 98 4.6 2.6 7.8
 100 3.5 1.7 5.0





#25

2-Butanone

Concen: 220.67 ug/l

RT: 4.31 min Scan# 368

Delta R.T. 0.00 min

Lab File: VH057073.D

Acq: 17 Sep 2015 19:02

Instrument :

MSVOA_H

ClientSampleId :

VSTDICCC050

Tot Ion: 43 Resp: 3047220

Ion Ratio Lower Upper

43 100

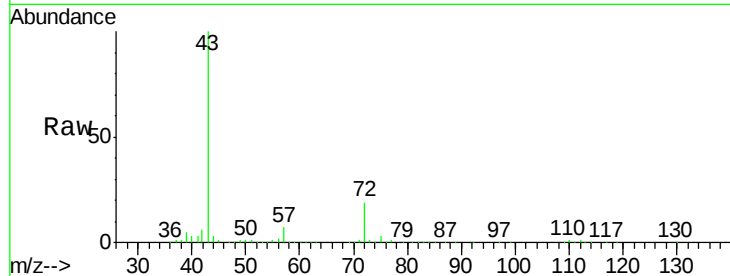
72 19.3 0.0 39.2

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VH0

Ion 72.00 (71.70 to 72.70): VH0

1000000

800000

600000

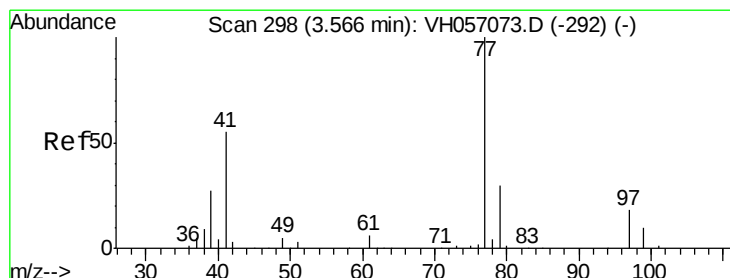
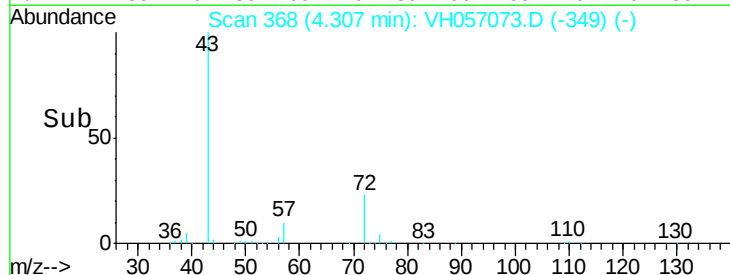
400000

200000

0

4.20 4.30 4.40 4.50

Time-->



#26

2,2-Dichloropropane

Concen: 48.53 ug/l

RT: 3.57 min Scan# 298

Delta R.T. 0.00 min

Lab File: VH057073.D

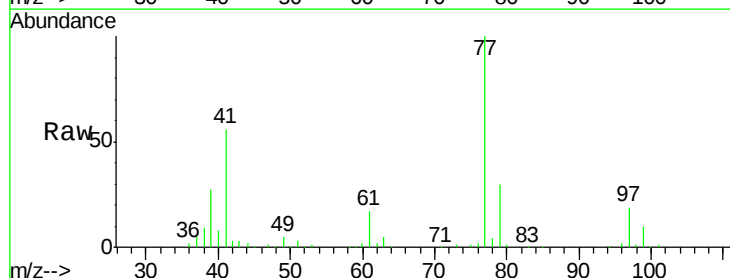
Acq: 17 Sep 2015 19:02

Tgt Ion: 77 Resp: 498460

Ion Ratio Lower Upper

77 100

97 18.5 8.8 26.4



Abundance Ion 77.00 (76.70 to 77.70): VH0

Ion 97.00 (96.70 to 97.70): VH0

150000

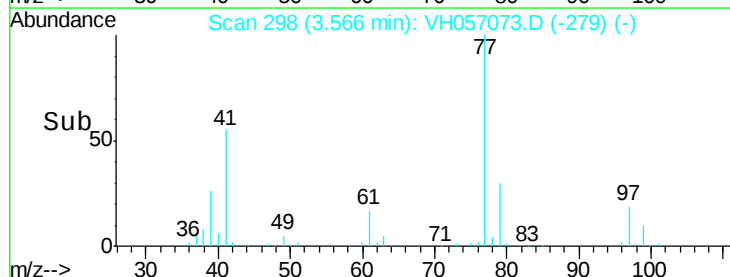
100000

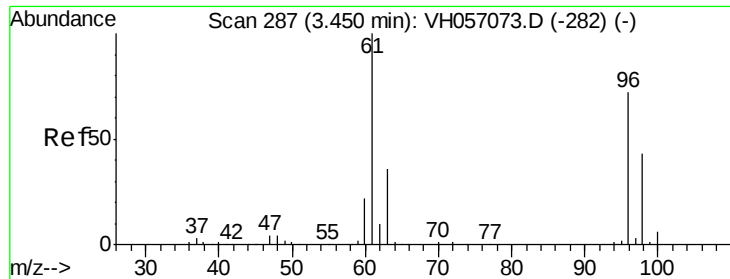
50000

0

3.40 3.50 3.60 3.70 3.80

Time-->





#27

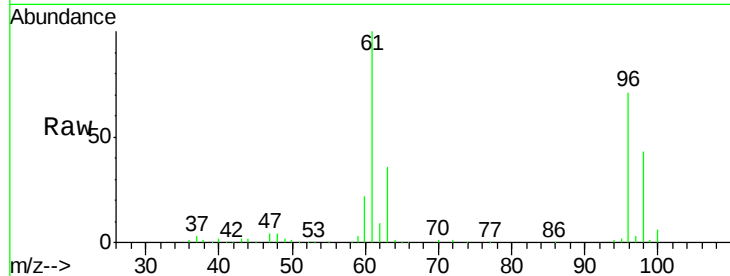
cis-1,2-Dichloroethene
Concen: 48.89 ug/l
RT: 3.45 min Scan# 287
Delta R.T. 0.00 min
Lab File: VH057073.D
Acq: 17 Sep 2015 19:02

Instrument :
MSVOA_H
ClientSampleId :
VSTDICCC050

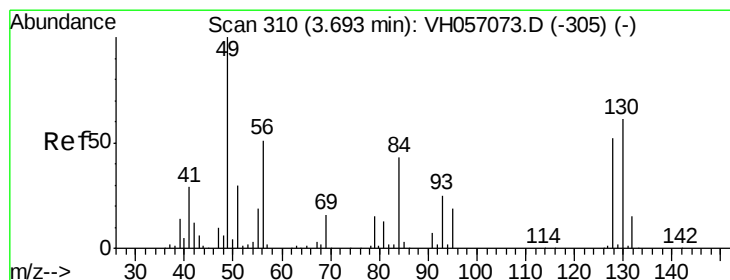
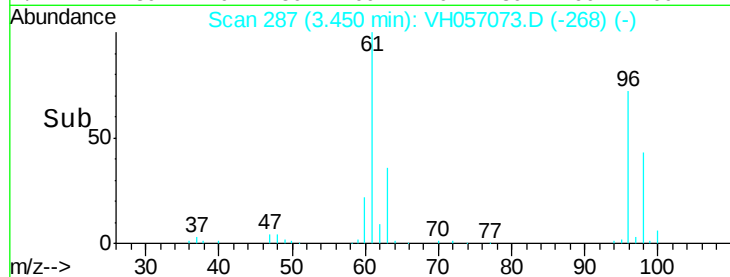
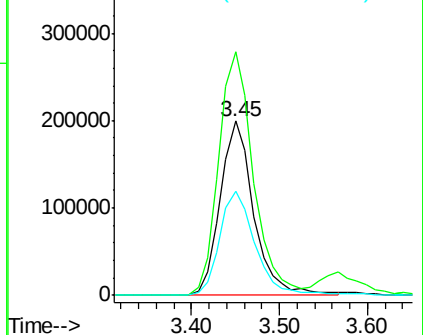
Tot Ion	Ratio	Lower	Upper
96	100		
61	140.0	115.4	173.0
98	59.6	49.7	74.5

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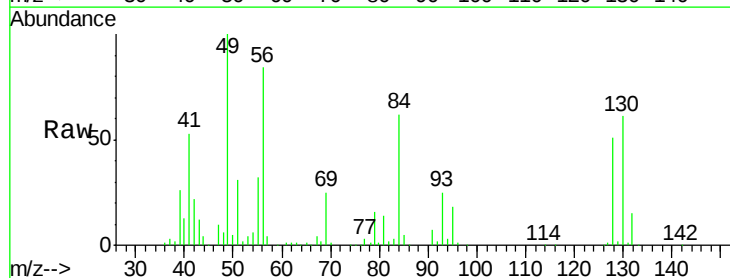
Abundance Ion 96.00 (95.70 to 96.70): VH0
Ion 61.00 (60.70 to 61.70): VH0
Ion 98.00 (97.70 to 98.70): VH0



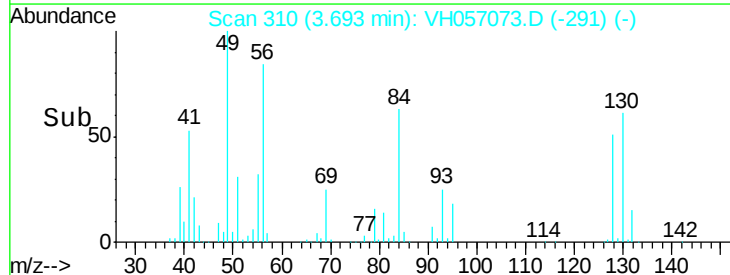
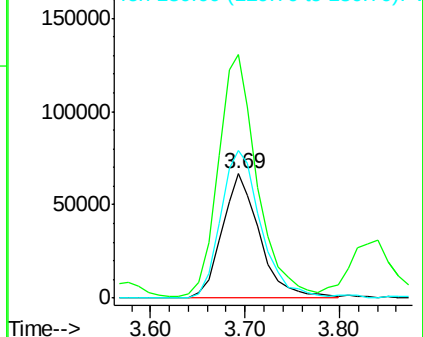
#28

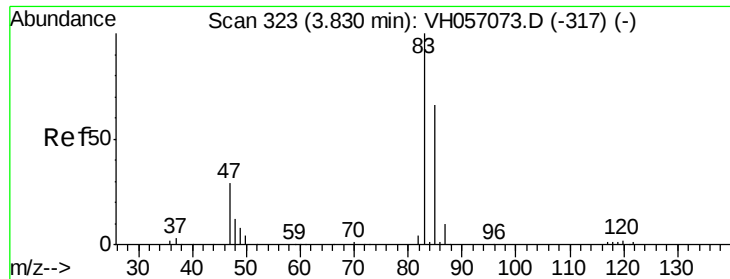
Bromochloromethane
Concen: 46.85 ug/l
RT: 3.69 min Scan# 310
Delta R.T. 0.00 min
Lab File: VH057073.D
Acq: 17 Sep 2015 19:02

Tgt Ion	Ratio	Lower	Upper
128	100		
49	196.0	0.0	441.4
130	118.6	100.7	151.1



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 49.00 (48.70 to 49.70): VH0
Ion 130.00 (129.70 to 130.70): V





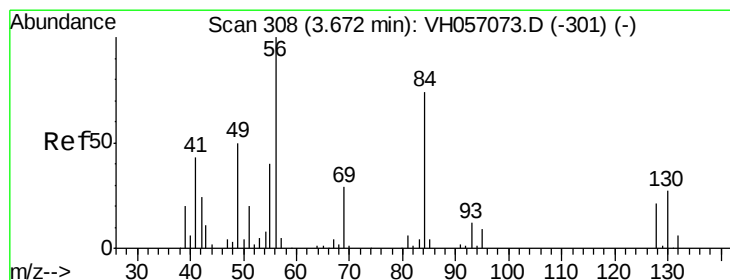
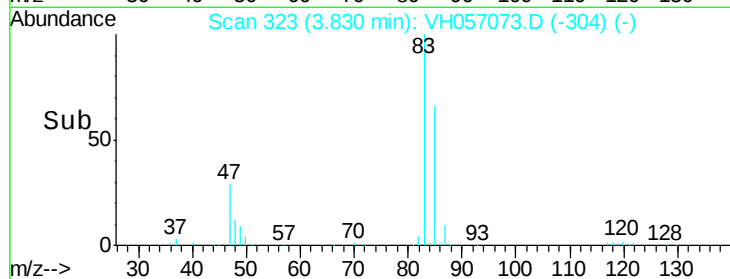
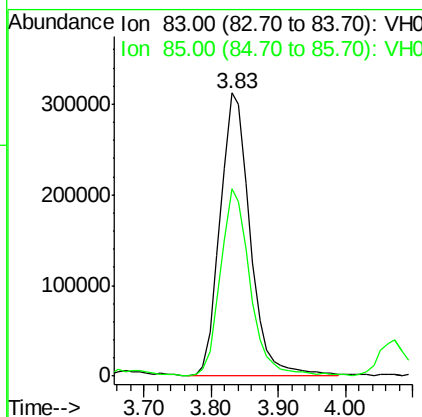
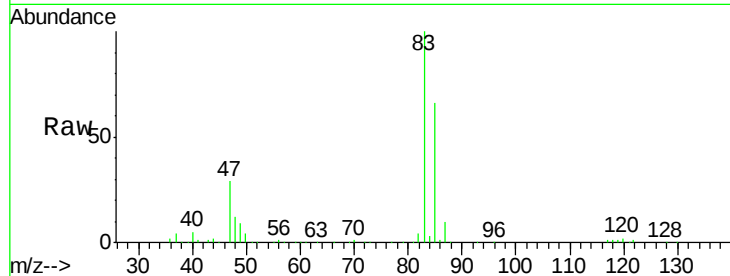
#29
Chloroform
Concen: 49.38 ug/l
RT: 3.83 min Scan# 323
Delta R.T. 0.00 min
Lab File: VH057073.D
Acq: 17 Sep 2015 19:02

Instrument :
MSVOA_H
ClientSampleId :
VSTDICCC050

Tot Ion	83	Resp	967556
Ion Ratio	100	Lower	Upper
85	66.1	54.3	81.5

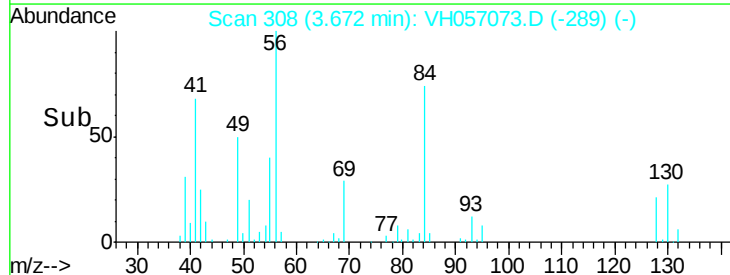
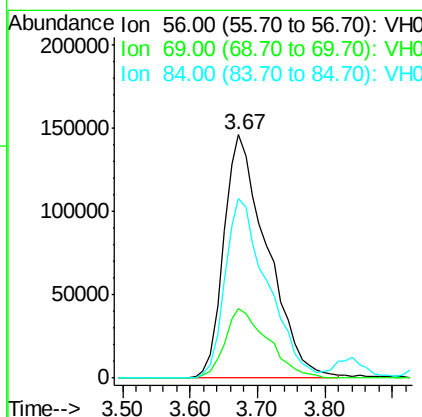
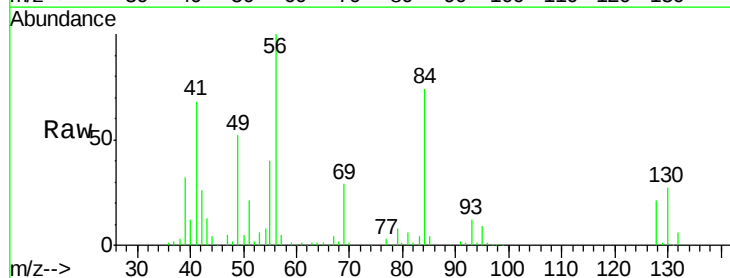
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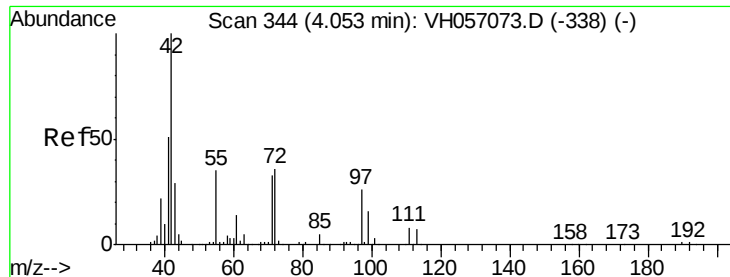
MMDadoda
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#30
Cyclohexane
Concen: 46.17 ug/l
RT: 3.67 min Scan# 308
Delta R.T. 0.00 min
Lab File: VH057073.D
Acq: 17 Sep 2015 19:02

Tgt Ion	56	Resp	659068
Ion Ratio	100	Lower	Upper
69	28.7	18.1	33.7
84	73.6	0.0	136.8





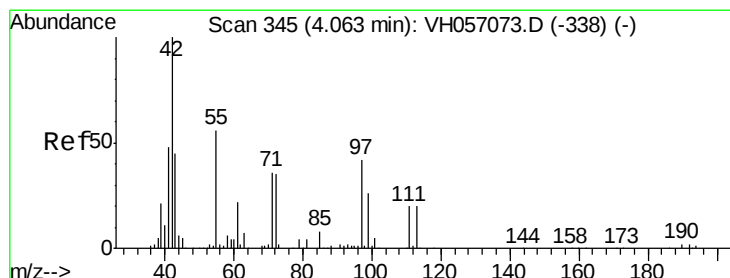
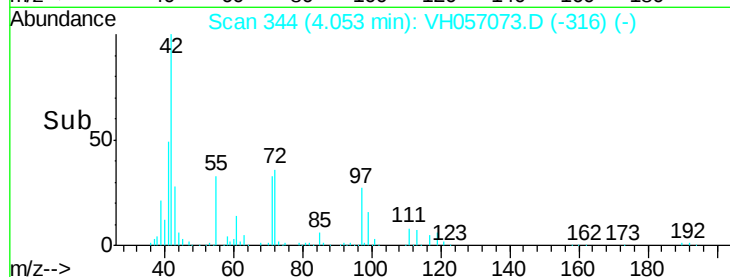
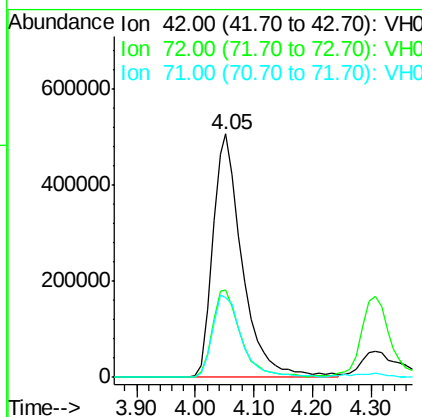
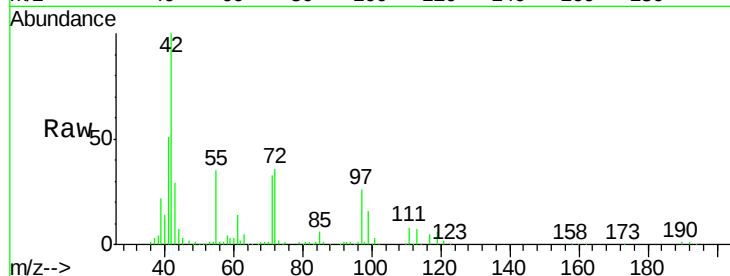
#31
Tetrahydrofuran
Concen: 220.53 ug/l
RT: 4.05 min Scan# 344
Delta R.T. 0.00 min
Lab File: VH057073.D
Acq: 17 Sep 2015 19:02

Instrument :
MSVOA_H
ClientSampleId :
VSTDICCC050

Tot Ion	Ratio	Lower	Upper
42	100		
72	34.6	25.5	38.3
71	33.7	25.4	38.0

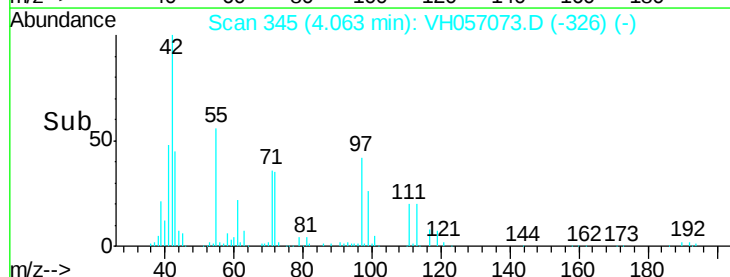
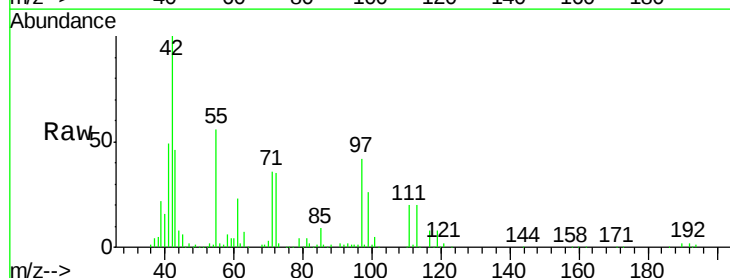
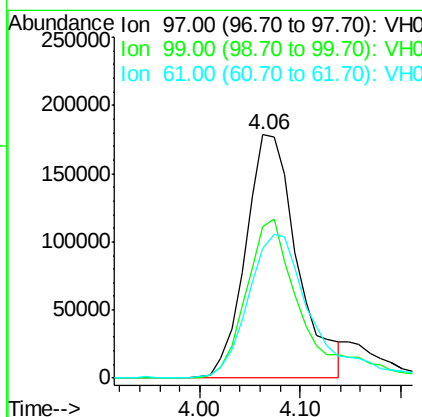
Manual Integrations
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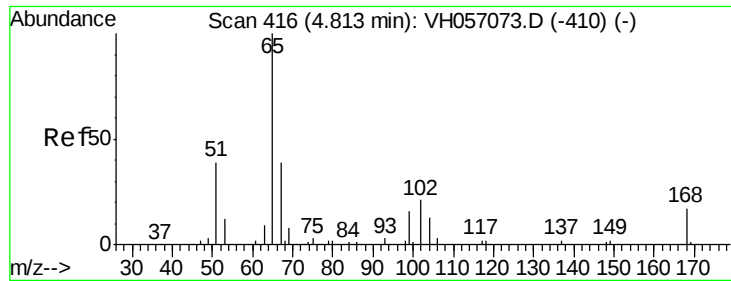
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#32
1,1,1-Trichloroethane
Concen: 47.04 ug/l
RT: 4.06 min Scan# 345
Delta R.T. 0.00 min
Lab File: VH057073.D
Acq: 17 Sep 2015 19:02

Tgt Ion	Ratio	Lower	Upper
97	100		
99	62.2	49.8	74.6
61	53.3	45.0	67.4





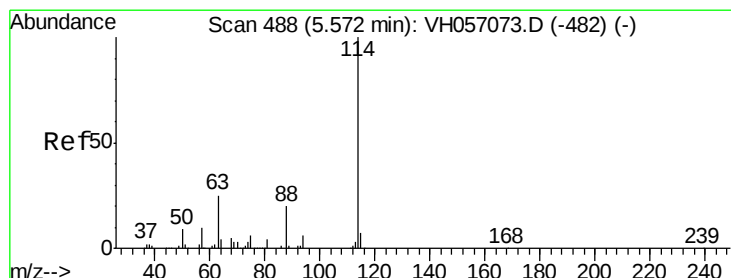
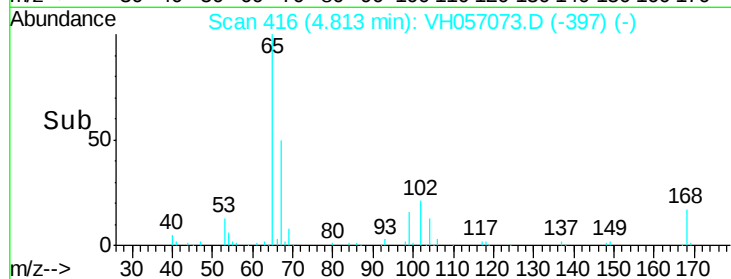
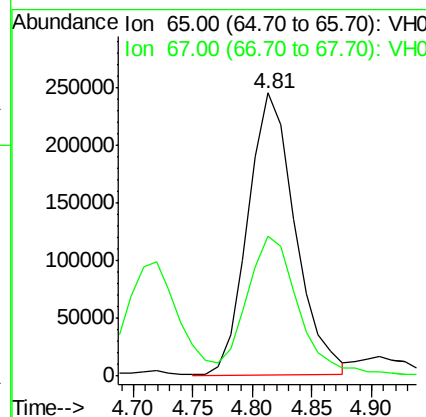
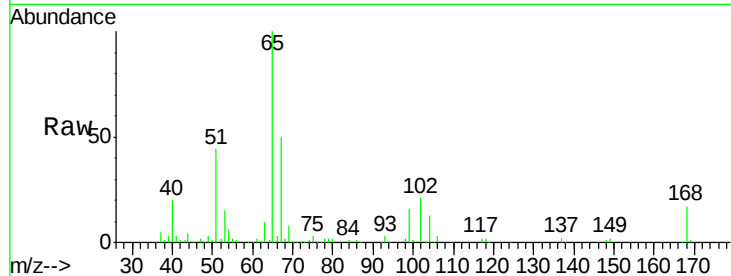
#33
 1,2-Dichloroethane-d4
 Concen: 55.01 ug/l
 RT: 4.81 min Scan# 416
 Delta R.T. 0.00 min
 Lab File: VH057073.D
 Acq: 17 Sep 2015 19:02

Instrument :
 MSVOA_H
 ClientSampleId :
 VSTDICCC050

Tot Ion: 65 Resp: 665826
 Ion Ratio Lower Upper
 65 100
 67 49.6 43.2 64.8

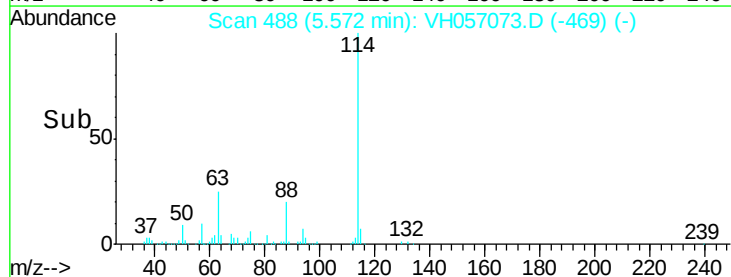
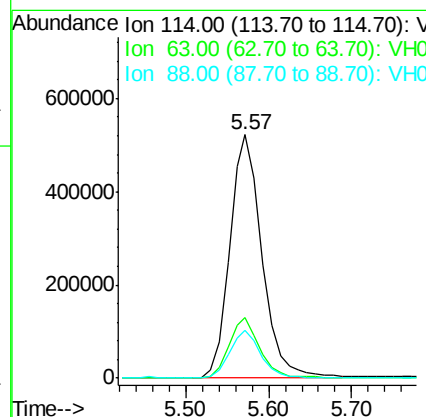
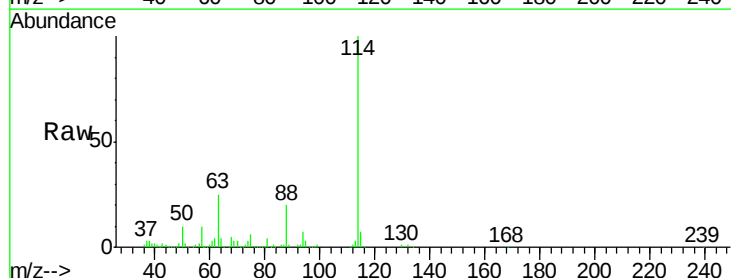
Manual Integrations
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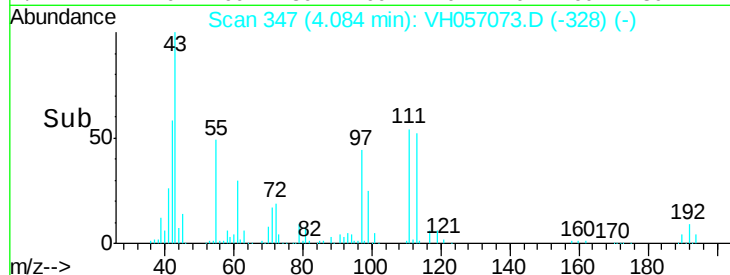
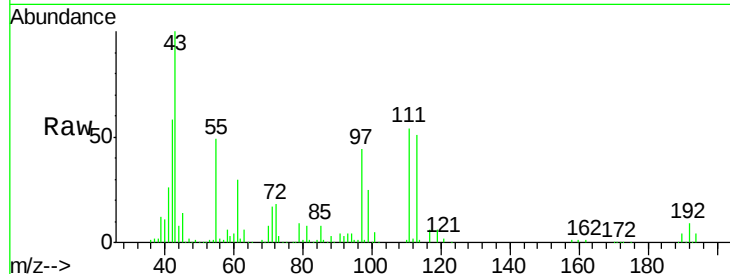
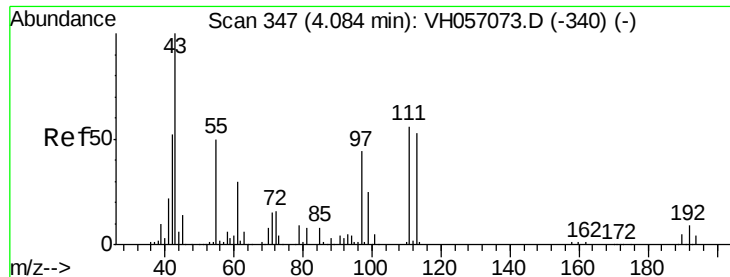
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#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.57 min Scan# 488
 Delta R.T. 0.00 min
 Lab File: VH057073.D
 Acq: 17 Sep 2015 19:02

Tgt Ion: 114 Resp: 1421414
 Ion Ratio Lower Upper
 114 100
 63 24.8 19.0 28.4
 88 19.5 15.7 23.5





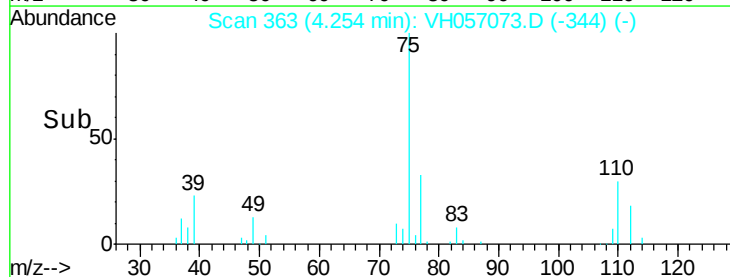
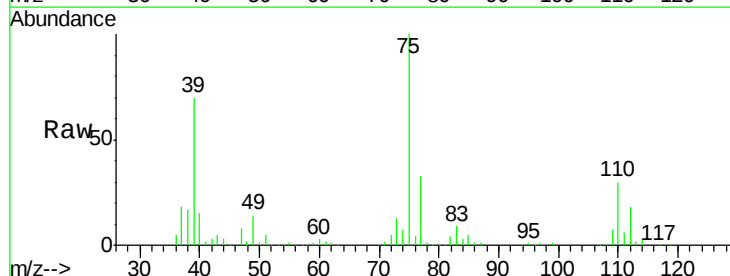
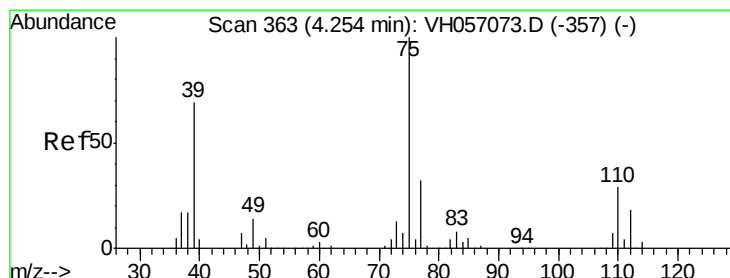
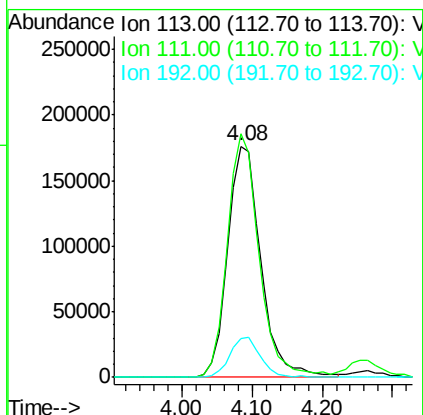
#35
Dibromofluoromethane
Concen: 55.92 ug/l
RT: 4.08 min Scan# 347
Delta R.T. 0.00 min
Lab File: VH057073.D
Acq: 17 Sep 2015 19:02

Tot Ion	Ratio	Resp	Lower	Upper
113	100	575330		
111	105.3	84.0	126.0	
192	17.0	13.6	20.4	

Instrument :
MSVOA_H
ClientSampleId :
VSTDICCC050

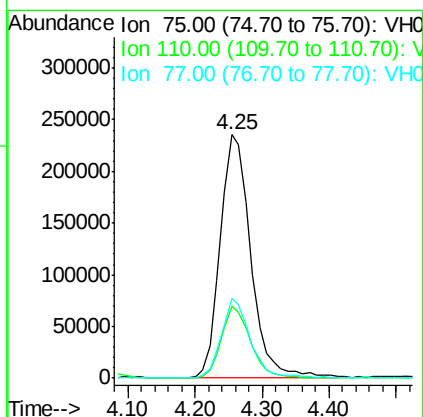
Manual Integrations
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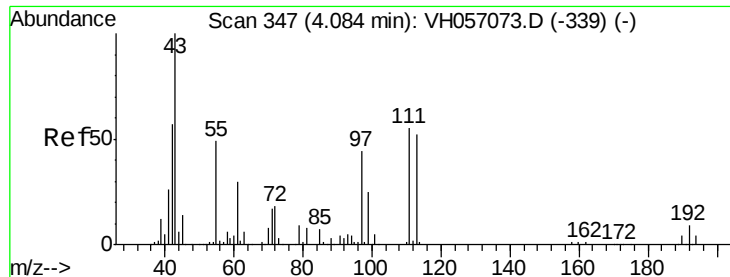
MMDadoda
9/18/2015 3:41:08 PM



#36
1,1-Dichloropropene
Concen: 50.90 ug/l
RT: 4.25 min Scan# 363
Delta R.T. 0.00 min
Lab File: VH057073.D
Acq: 17 Sep 2015 19:02

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	742006		
110	29.5	13.7	41.1	
77	32.5	24.0	36.0	





#37

Ethyl acetate

Concen: 45.64 ug/l

RT: 4.08 min Scan# 347

Delta R.T. 0.00 min

Lab File: VH057073.D

Acq: 17 Sep 2015 19:02

Instrument :

MSVOA_H

ClientSampleId :

VSTDICCC050

Tot Ion: 43 Resp: 1391317

Ion Ratio Lower Upper

43 100

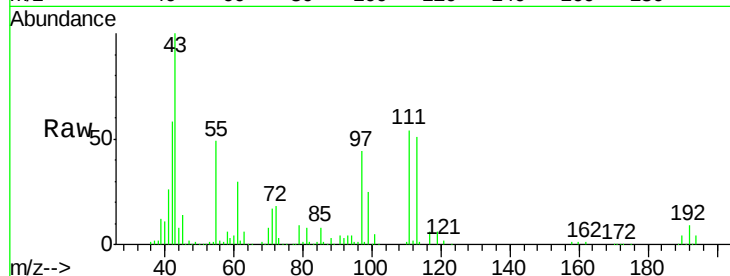
61 0.0 23.9 35.9#

70 7.3 5.4 8.0

Manual Integrations
APPROVED

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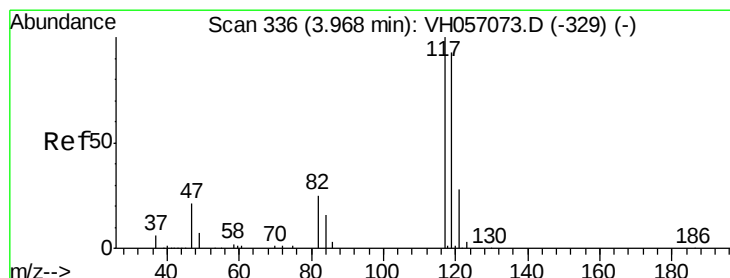
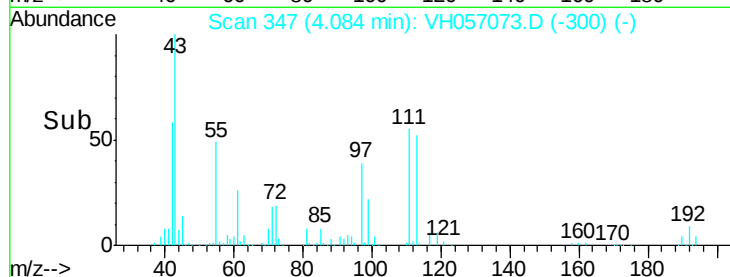
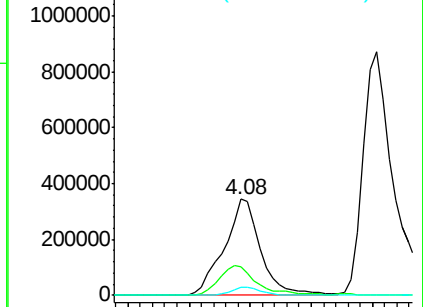
9/18/2015 3:41:08 PM



Abundance Ion 43.05 (42.75 to 43.75): VH057073.D (-339) (-)

Ion 61.00 (60.70 to 61.70): VH057073.D (-339) (-)

Ion 70.05 (69.75 to 70.75): VH057073.D (-339) (-)



#38

Carbon Tetrachloride

Concen: 51.20 ug/l

RT: 3.97 min Scan# 336

Delta R.T. 0.00 min

Lab File: VH057073.D

Acq: 17 Sep 2015 19:02

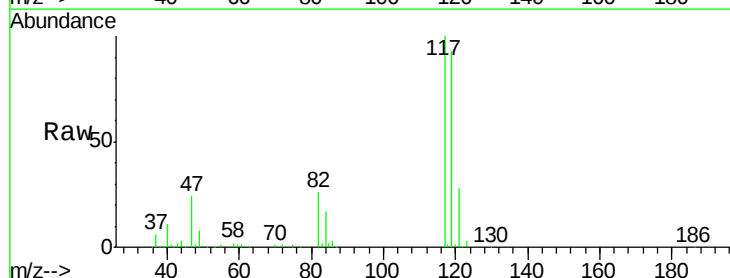
Tgt Ion: 117 Resp: 588150

Ion Ratio Lower Upper

117 100

119 93.4 78.7 118.1

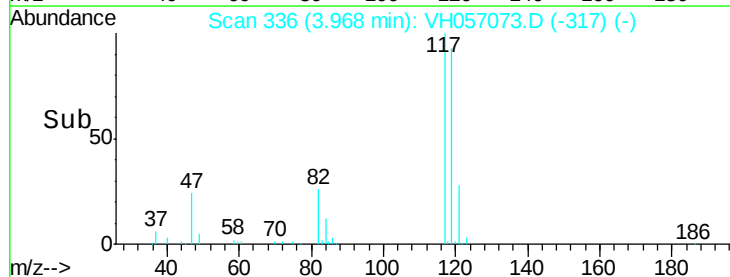
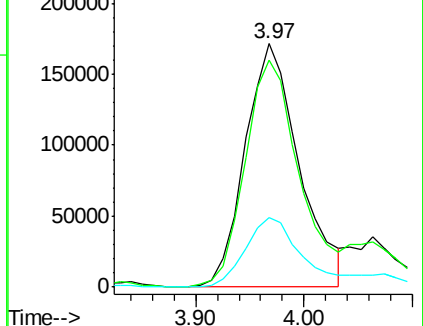
121 28.5 25.9 38.9

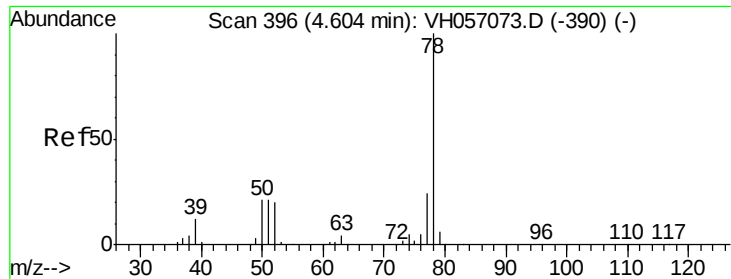


Abundance Ion 117.00 (116.70 to 117.70): VH057073.D (-329) (-)

Ion 119.00 (118.70 to 119.70): VH057073.D (-329) (-)

Ion 121.00 (120.70 to 121.70): VH057073.D (-329) (-)





#39

Benzene

Concen: 48.47 ug/l

RT: 4.60 min Scan# 396

Delta R.T. 0.00 min

Lab File: VH057073.D

Acq: 17 Sep 2015 19:02

Instrument :

MSVOA_H

ClientSampleId :

VSTDICCC050

Tot Ion: 78 Resp: 1774968

Ion Ratio Lower Upper

78 100

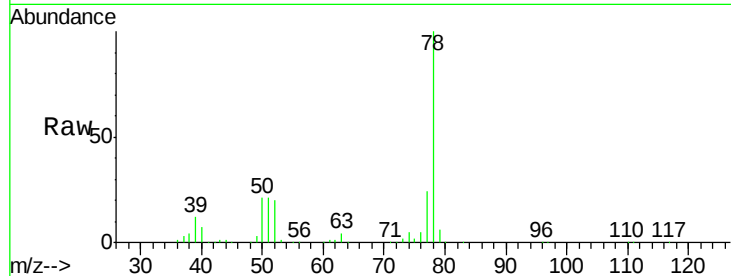
77 24.1 18.5 27.7

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Abundance Ion 78.10 (77.80 to 78.80): VH0

Ion 77.00 (76.70 to 77.70): VH0

4.60

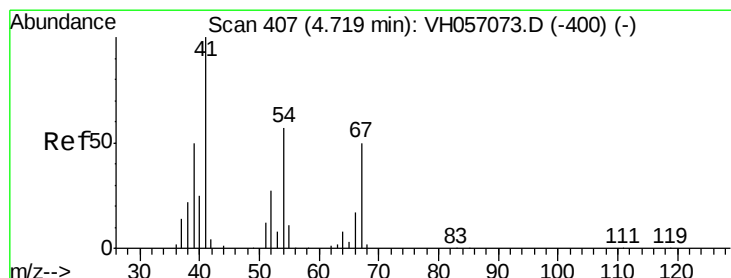
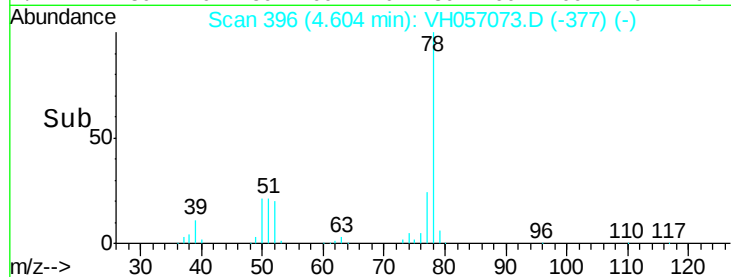
600000

400000

200000

0

Time-->



#40

Methacrylonitrile

Concen: 45.62 ug/l

RT: 4.72 min Scan# 407

Delta R.T. 0.00 min

Lab File: VH057073.D

Acq: 17 Sep 2015 19:02

Tgt Ion: 41 Resp: 645379

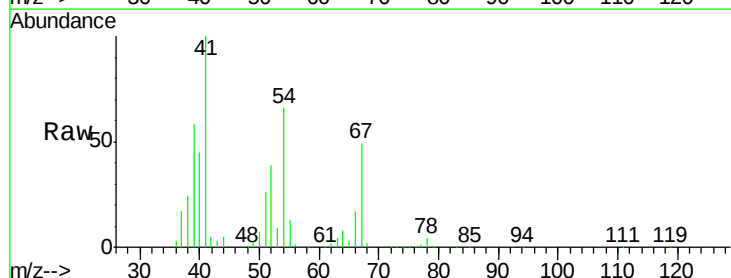
Ion Ratio Lower Upper

41 100

39 57.5 25.1 75.2

67 49.3 22.5 67.5

52 39.0 19.0 57.0



Abundance Ion 41.00 (40.70 to 41.70): VH0

Ion 39.00 (38.70 to 39.70): VH0

Ion 67.00 (66.70 to 67.70): VH0

Ion 52.00 (51.70 to 52.70): VH0

4.72

300000

250000

200000

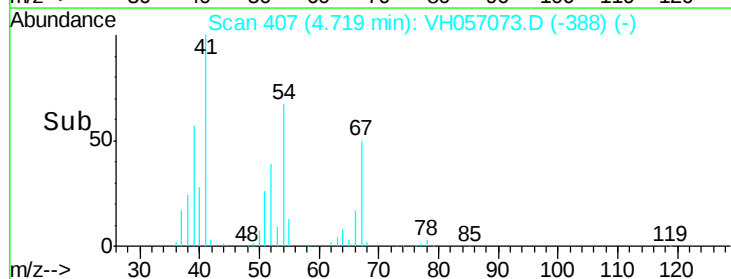
150000

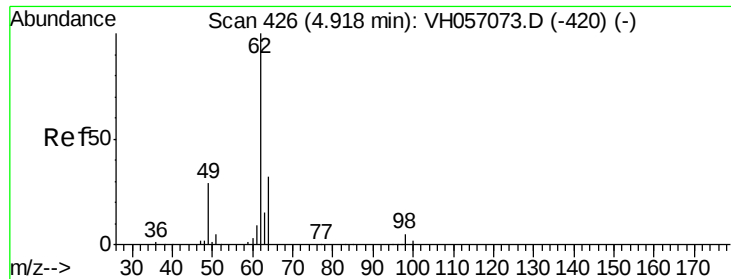
100000

50000

0

Time-->





#41

1,2-Dichloroethane

Concen: 50.75 ug/l

RT: 4.92 min Scan# 426

Delta R.T. 0.00 min

Lab File: VH057073.D

Acq: 17 Sep 2015 19:02

Instrument :

MSVOA_H

ClientSampleId :

VSTDICCC050

Tot Ion: 62 Resp: 796645

Ion Ratio Lower Upper

62 100

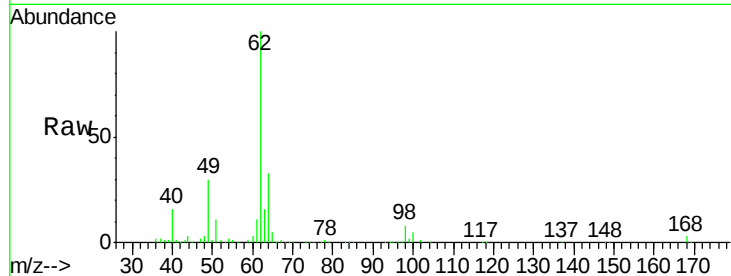
98 8.4 7.3 10.9

Manual Integrations

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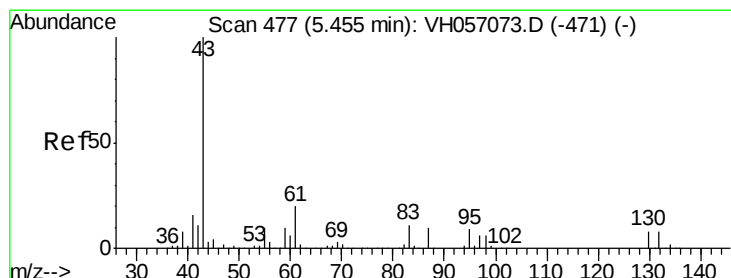
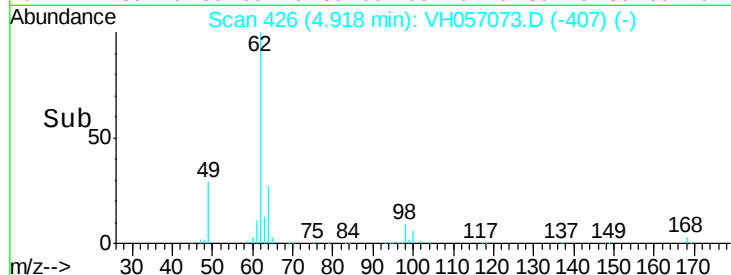
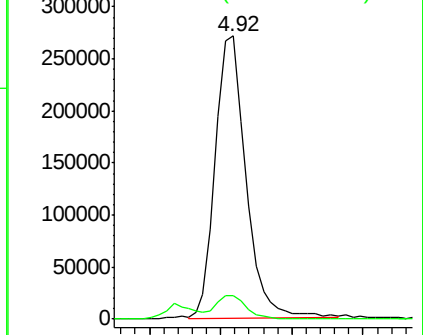
MMDadoda

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Abundance Ion 62.00 (61.70 to 62.70): VH0

Ion 98.00 (97.70 to 98.70): VH0



#42

Isopropyl Acetate

Concen: 46.51 ug/l

RT: 5.46 min Scan# 477

Delta R.T. 0.00 min

Lab File: VH057073.D

Acq: 17 Sep 2015 19:02

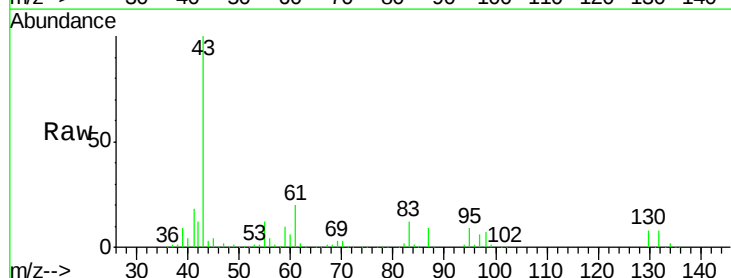
Tgt Ion: 43 Resp: 1833145

Ion Ratio Lower Upper

43 100

61 20.4 15.8 23.6

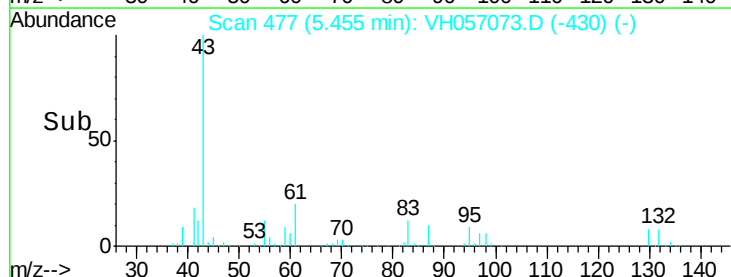
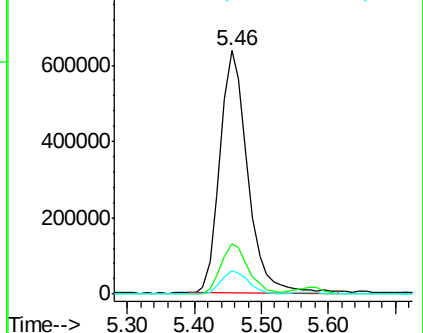
87 9.5 7.0 10.6

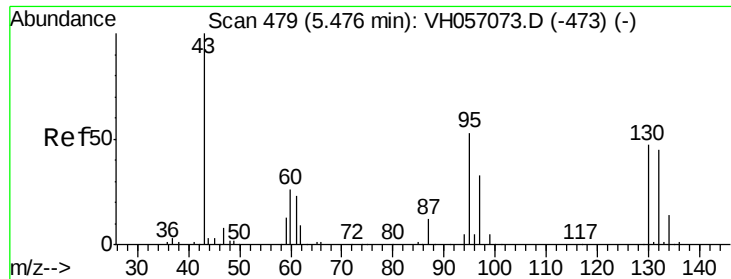


Abundance Ion 43.05 (42.75 to 43.75): VH0

Ion 61.00 (60.70 to 61.70): VH0

Ion 87.00 (86.70 to 87.70): VH0





#43

Trichloroethene

Concen: 51.77 ug/l

RT: 5.48 min Scan# 479

Delta R.T. 0.00 min

Lab File: VH057073.D

Acq: 17 Sep 2015 19:02

Instrument :

MSVOA_H

ClientSampled :

VSTDICCC050

Tot Ion:130 Resp: 471465

Ion Ratio Lower Upper

130 100

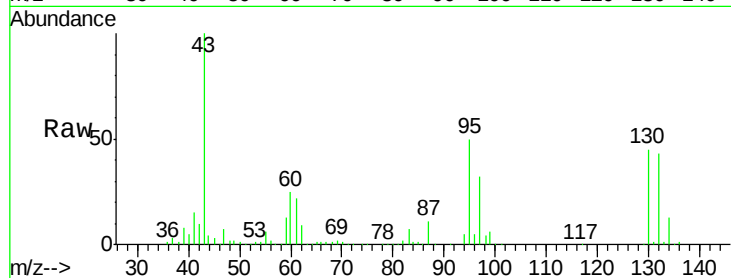
95 112.1 84.0 126.0

Manual Integrations

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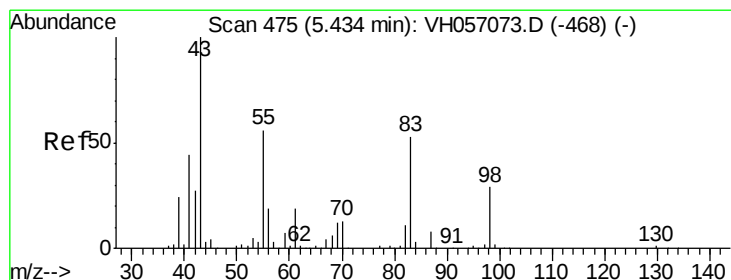
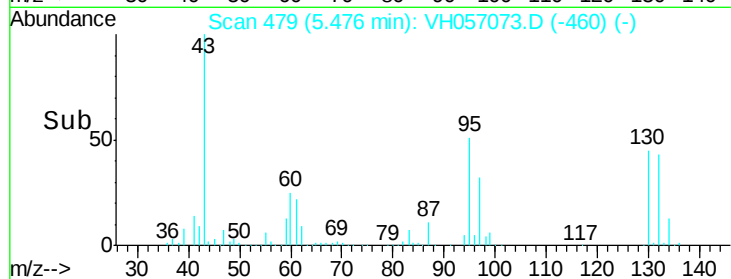
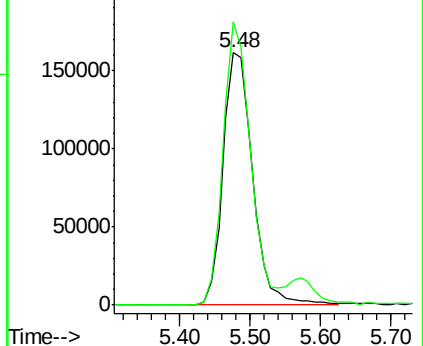
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Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VH0



#44

Methylcyclohexane

Concen: 48.89 ug/l

RT: 5.43 min Scan# 475

Delta R.T. 0.00 min

Lab File: VH057073.D

Acq: 17 Sep 2015 19:02

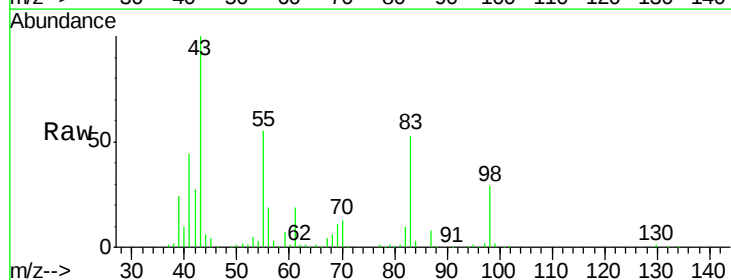
Tgt Ion: 83 Resp: 441140

Ion Ratio Lower Upper

83 100

55 105.0 0.0 207.2

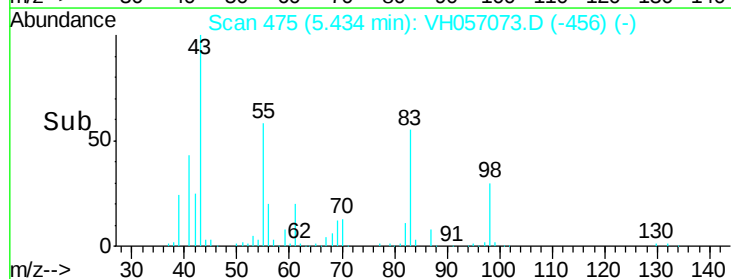
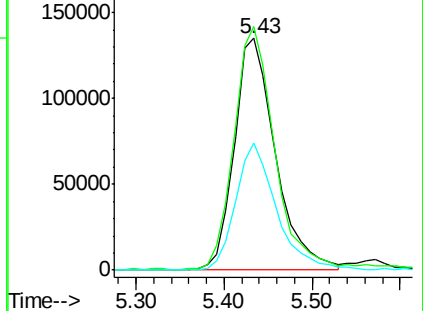
98 54.6 0.0 108.4

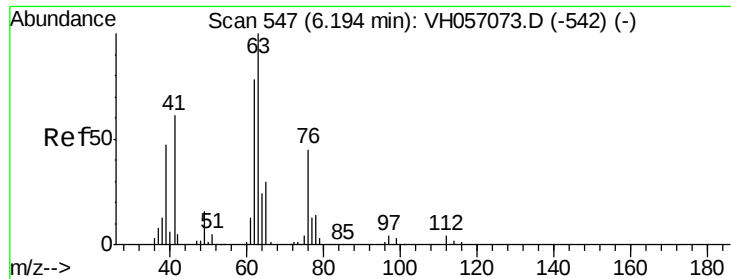


Abundance Ion 83.00 (82.70 to 83.70): VH0

Ion 55.00 (54.70 to 55.70): VH0

Ion 98.00 (97.70 to 98.70): VH0





#45

1,2-Dichloropropane

Concen: 48.96 ug/l

RT: 6.19 min Scan# 547

Delta R.T. 0.00 min

Lab File: VH057073.D

Acq: 17 Sep 2015 19:02

Instrument :

MSVOA_H

ClientSampleId :

VSTDICCC050

Tot Ion: 63 Resp: 576683

Ion Ratio Lower Upper

63 100

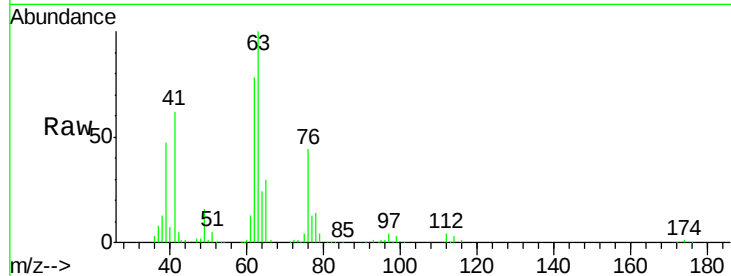
65 30.2 23.8 35.8

Manual Integrations

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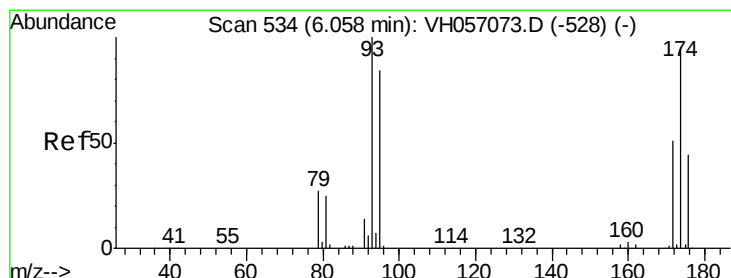
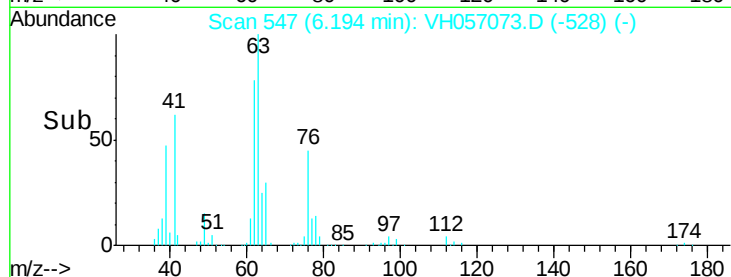
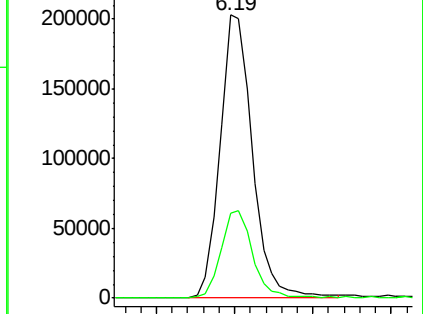
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Abundance Ion 63.00 (62.70 to 63.70): VH0

Ion 65.00 (64.70 to 65.70): VH0



#46

Dibromomethane

Concen: 50.28 ug/l

RT: 6.06 min Scan# 534

Delta R.T. 0.00 min

Lab File: VH057073.D

Acq: 17 Sep 2015 19:02

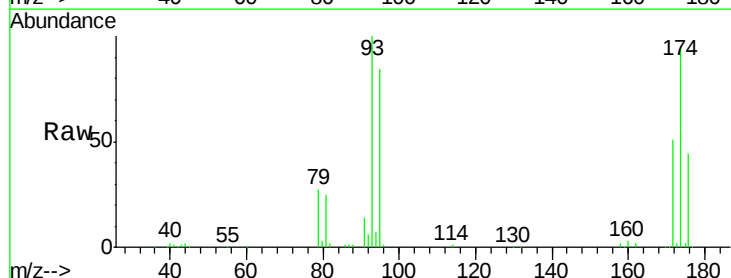
Tgt Ion: 93 Resp: 372158

Ion Ratio Lower Upper

93 100

95 84.1 69.5 104.3

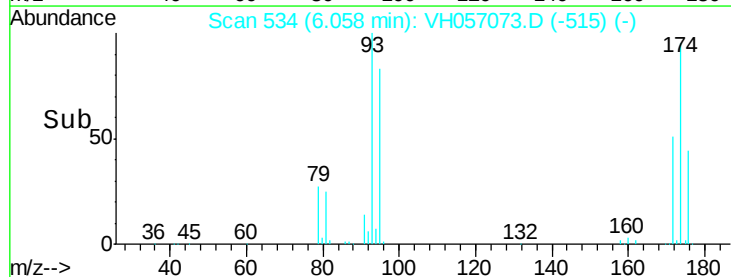
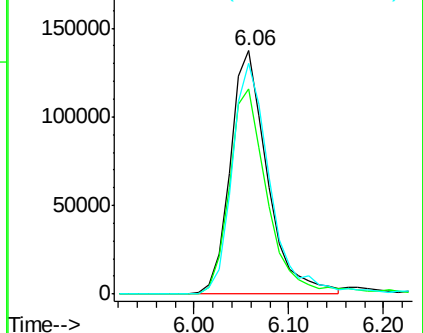
174 95.0 75.8 113.6

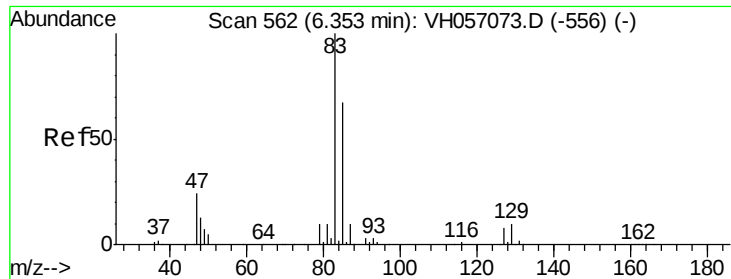


Abundance Ion 93.00 (92.70 to 93.70): VH0

Ion 95.00 (94.70 to 95.70): VH0

Ion 174.00 (173.70 to 174.70): V





#47

Bromodichloromethane

Concen: 51.31 ug/l

RT: 6.35 min Scan# 562

Delta R.T. 0.00 min

Lab File: VH057073.D

Acq: 17 Sep 2015 19:02

Instrument :

MSVOA_H

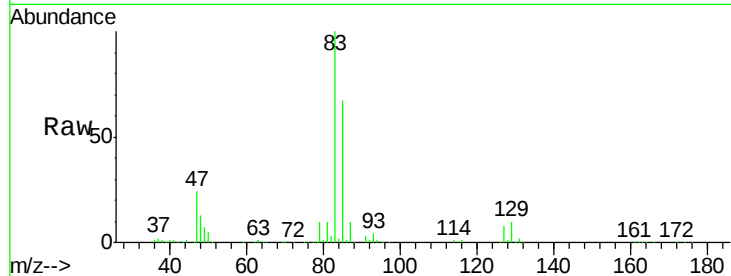
ClientSampleId :

VSTDICCC050

Tot Ion:	83	Resp:	775355
Ion Ratio	Lower	Upper	
83	100		
85	67.1	52.6	78.8
127	8.3	6.8	10.2

Manual Integrations
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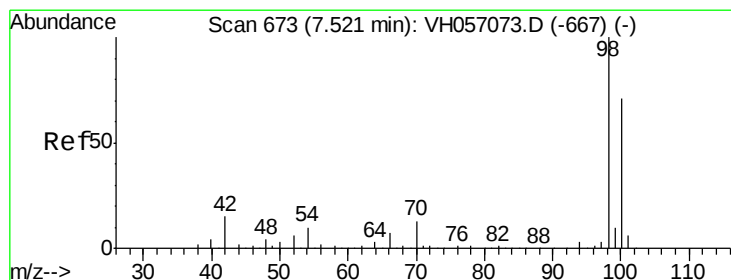
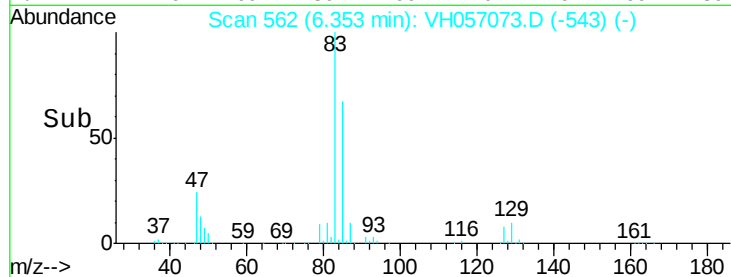
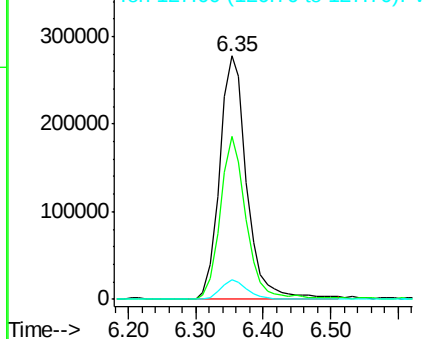
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Abundance Ion 83.00 (82.70 to 83.70): VH0

Ion 85.00 (84.70 to 85.70): VH0

Ion 127.00 (126.70 to 127.70): V



#48

Toluene-d8

Concen: 59.48 ug/l

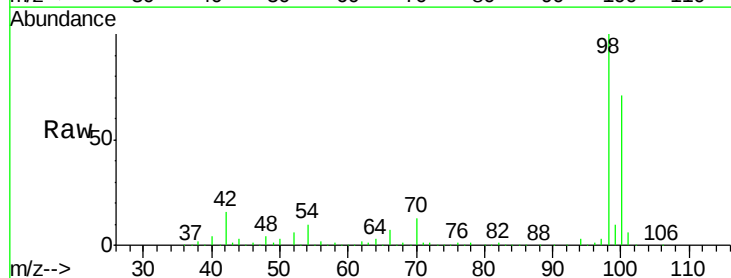
RT: 7.52 min Scan# 673

Delta R.T. 0.00 min

Lab File: VH057073.D

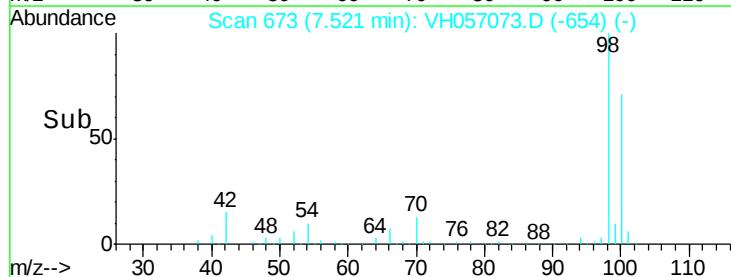
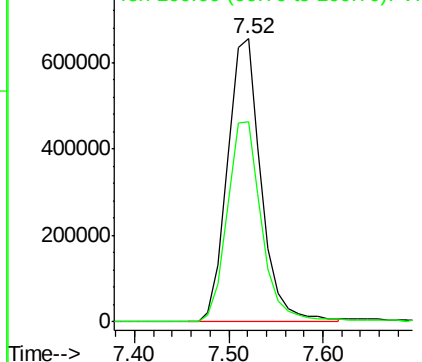
Acq: 17 Sep 2015 19:02

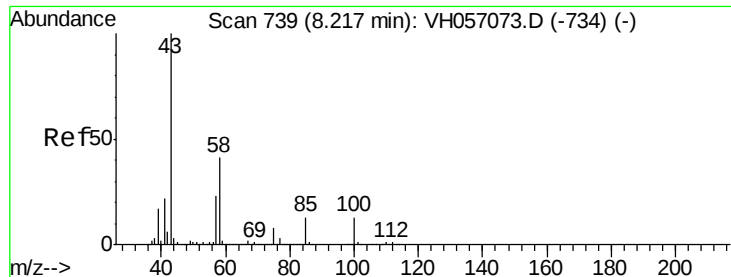
Tgt Ion:	98	Resp:	1624646
Ion Ratio	Lower	Upper	
98	100		
100	70.9	56.7	85.1



Abundance Ion 98.00 (97.70 to 98.70): VH0

Ion 100.00 (99.70 to 100.70): VH





#49

4-Methyl-2-Pentanone

Concen: 228.48 ug/l

RT: 8.22 min Scan# 739

Delta R.T. 0.00 min

Lab File: VH057073.D

Acq: 17 Sep 2015 19:02

Instrument :

MSVOA_H

ClientSampleId :

VSTDICCC050

Tot Ion: 43 Resp: 5520065

Ion Ratio Lower Upper

43 100

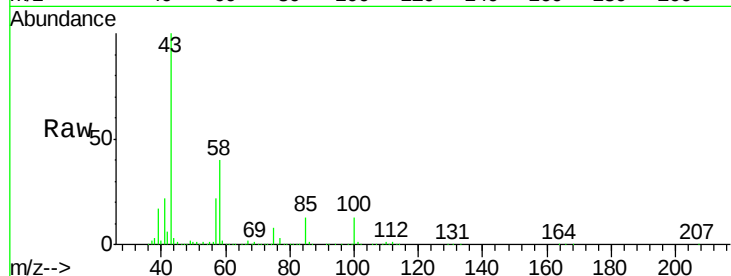
58 40.5 20.0 60.0

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Abundance Ion 43.00 (42.70 to 43.70): VH0

Ion 58.00 (57.70 to 58.70): VH0

2500000

2000000

1500000

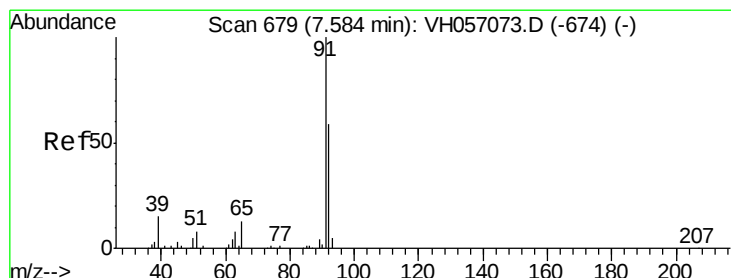
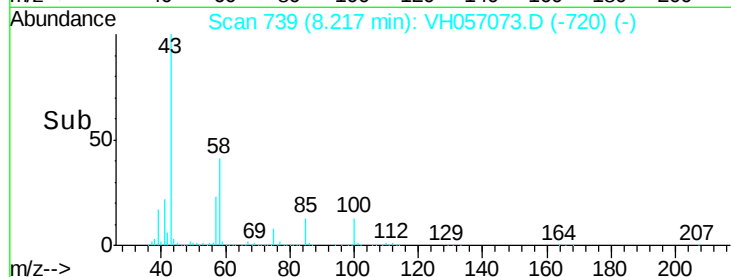
1000000

500000

0

8.10 8.20 8.30 8.40

Time-->



#50

Toluene

Concen: 49.37 ug/l

RT: 7.58 min Scan# 679

Delta R.T. 0.00 min

Lab File: VH057073.D

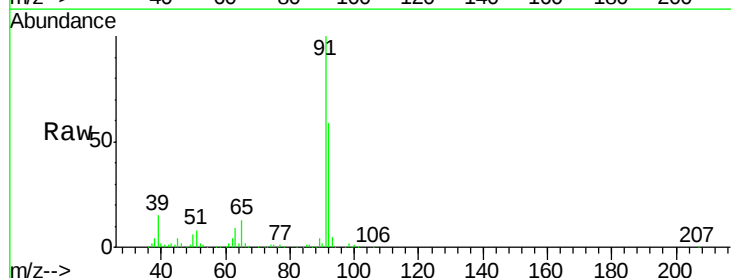
Acq: 17 Sep 2015 19:02

Tgt Ion: 92 Resp: 1156134

Ion Ratio Lower Upper

92 100

91 168.2 125.8 188.6



Abundance Ion 92.00 (91.70 to 92.70): VH0

Ion 91.00 (90.70 to 91.70): VH0

800000

600000

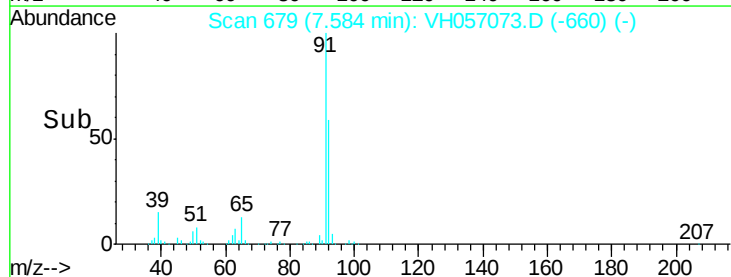
400000

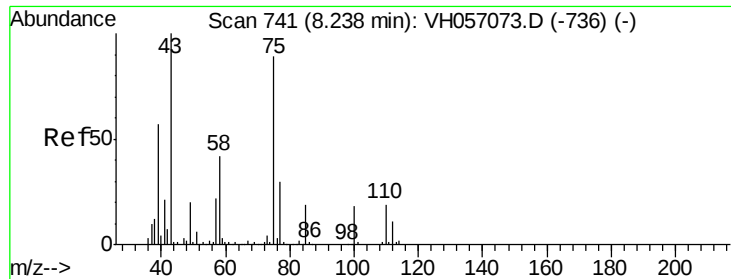
200000

0

7.50 7.60 7.70 7.80

Time-->





#51

t-1,3-Dichloropropene

Concen: 52.32 ug/l

RT: 8.24 min Scan# 741

Delta R.T. 0.00 min

Lab File: VH057073.D

Acq: 17 Sep 2015 19:02

Instrument :

MSVOA_H

ClientSampleId :

VSTDICCC050

Tot Ion: 75 Resp: 910321

Ion Ratio Lower Upper

75 100

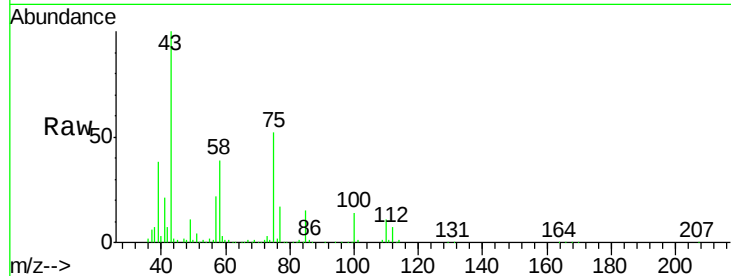
77 33.4 26.2 39.2

Manual Integrations

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Abundance Ion 75.00 (74.70 to 75.70): VH0

Ion 77.00 (76.70 to 77.70): VH0

8.24

400000

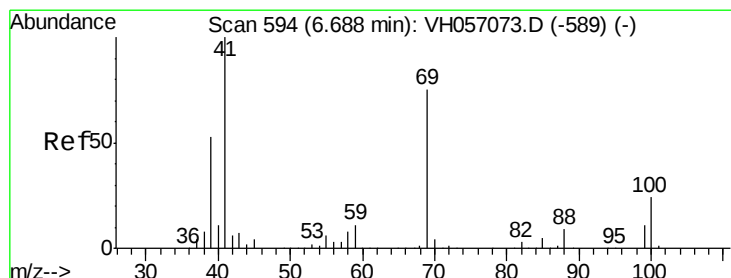
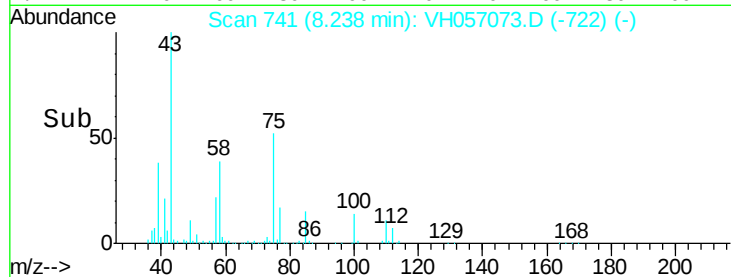
300000

200000

100000

0

Time--> 8.10 8.20 8.30 8.40



#52

Methyl Methacrylate

Concen: 50.46 ug/l

RT: 6.69 min Scan# 594

Delta R.T. 0.00 min

Lab File: VH057073.D

Acq: 17 Sep 2015 19:02

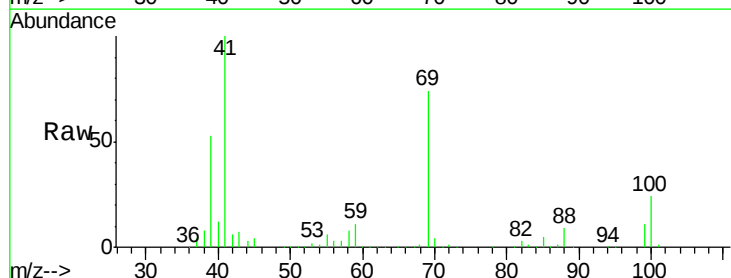
Tgt Ion: 69 Resp: 599262

Ion Ratio Lower Upper

69 100

41 134.4 70.0 209.8

39 71.1 37.5 112.5



Abundance Ion 69.00 (68.70 to 69.70): VH0

Ion 41.00 (40.70 to 41.70): VH0

Ion 39.00 (38.70 to 39.70): VH0

6.69

400000

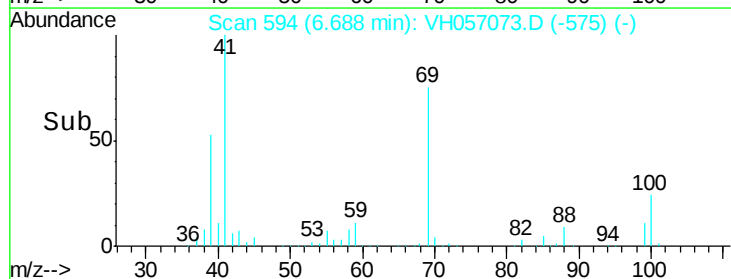
300000

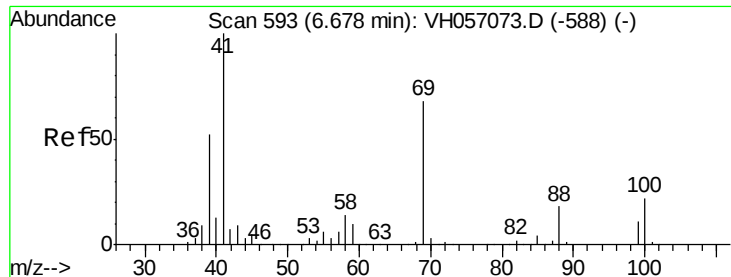
200000

100000

0

Time--> 6.60 6.70 6.80 6.90





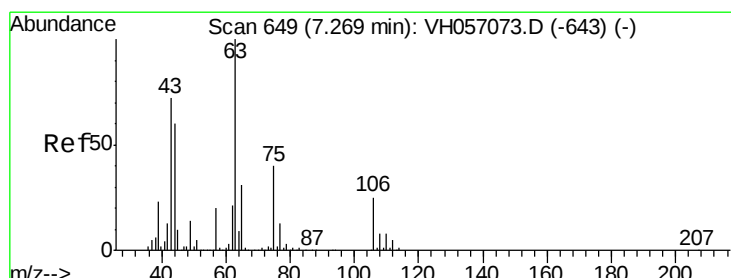
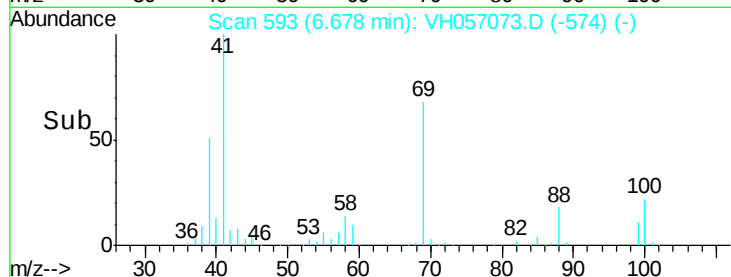
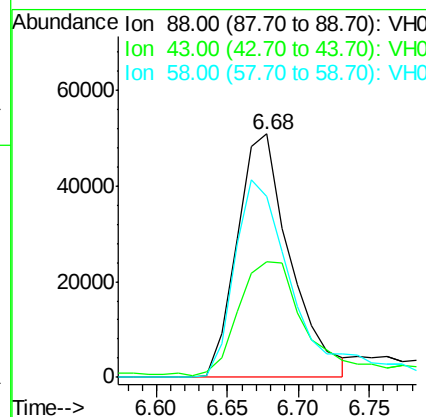
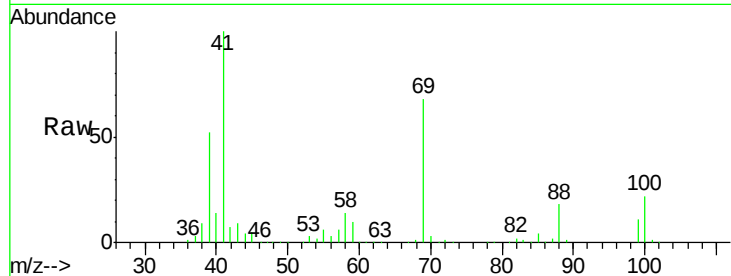
#53
1,4-Dioxane
Concen: 1127.51 ug/l
RT: 6.68 min Scan# 593
Delta R.T. 0.00 min
Lab File: VH057073.D
Acq: 17 Sep 2015 19:02

Instrument :
MSVOA_H
ClientSampleId :
VSTDICCC050

Tot Ion	Ratio	Resp	Lower	Upper
88	100			
43	47.6	39.6	59.4	
58	74.6	61.4	92.2	

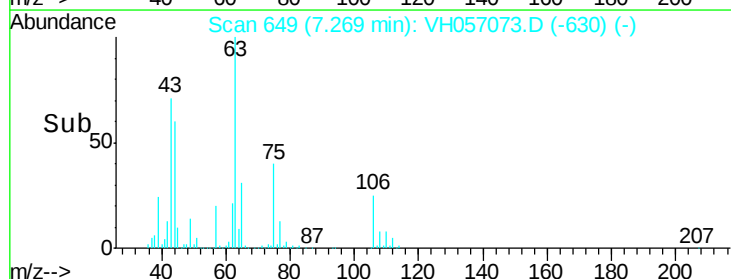
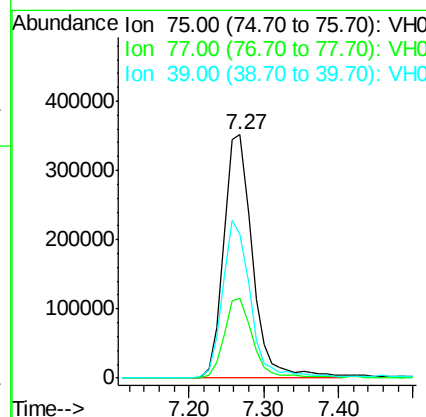
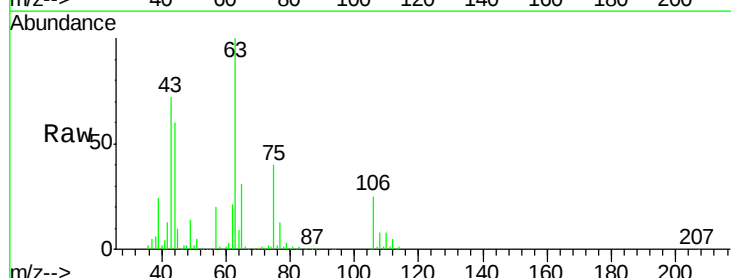
Manual Integrations
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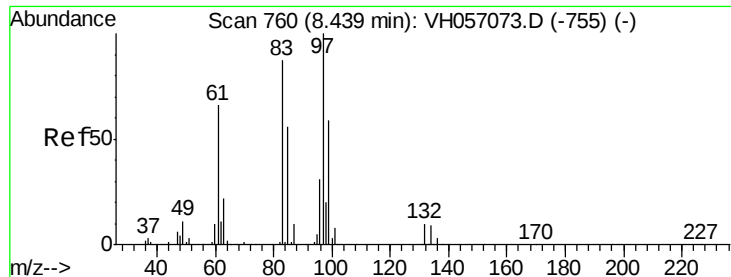
MMDadoda
9/18/2015 3:41:08 PM



#54
cis-1,3-Dichloropropene
Concen: 49.40 ug/l
RT: 7.27 min Scan# 649
Delta R.T. 0.00 min
Lab File: VH057073.D
Acq: 17 Sep 2015 19:02

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
77	32.9	25.2	37.8	
39	59.3	50.7	76.1	





#55

1,1,2-Trichloroethane

Concen: 54.71 ug/l

RT: 8.44 min Scan# 760

Delta R.T. 0.00 min

Lab File: VH057073.D

Acq: 17 Sep 2015 19:02

Instrument :

MSVOA_H

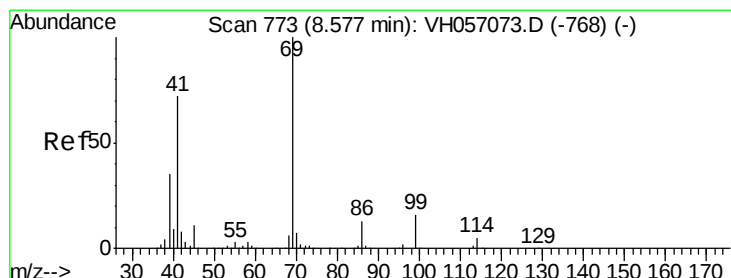
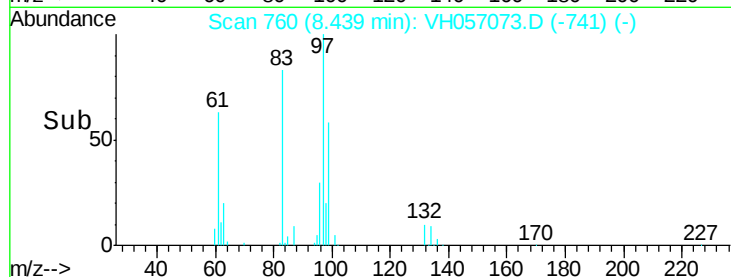
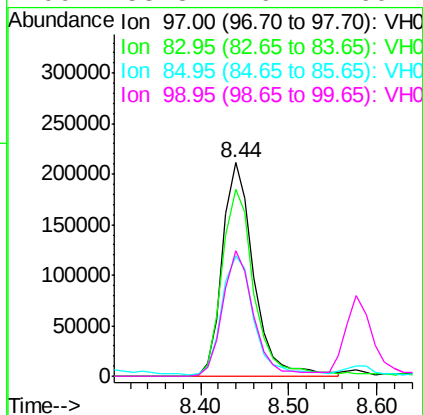
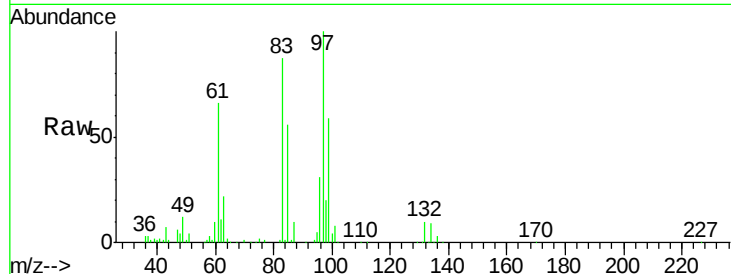
ClientSampleId :

VSTDICCC050

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		521637		
83	87.3	72.7	109.1		
85	56.4	45.5	68.3		
99	58.8	46.2	69.2		

Manual Integrations
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#56

Ethyl Methacrylate

Concen: 52.49 ug/l

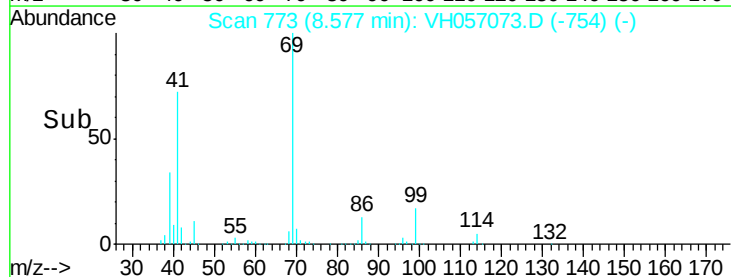
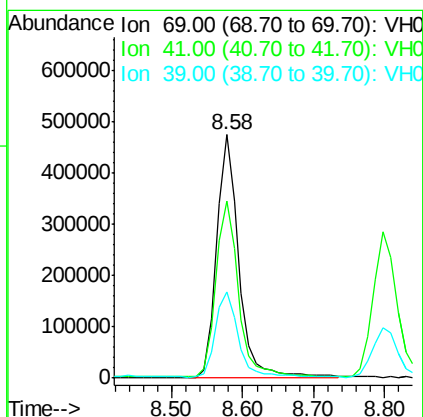
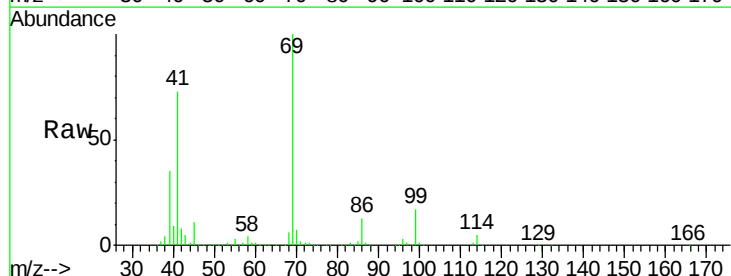
RT: 8.58 min Scan# 773

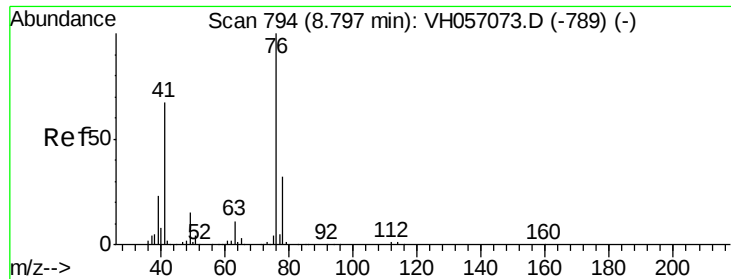
Delta R.T. 0.00 min

Lab File: VH057073.D

Acq: 17 Sep 2015 19:02

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		1038070		
41	72.6	39.1	117.3		
39	35.3	19.2	57.6		





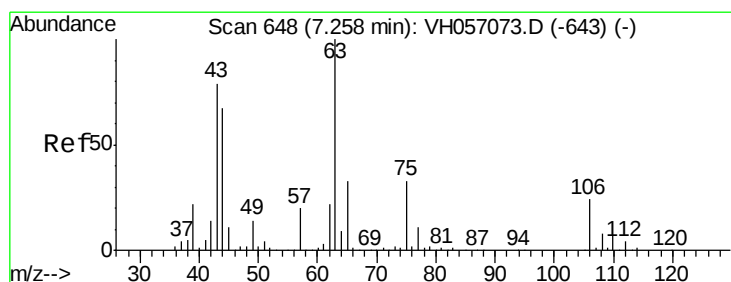
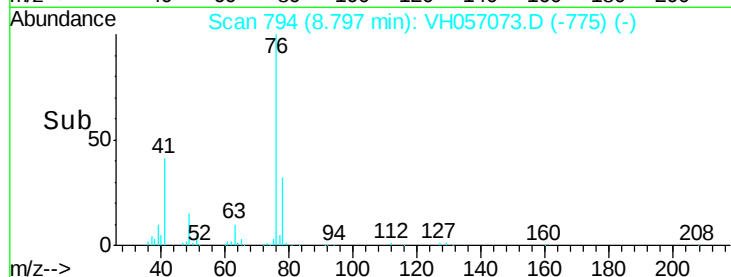
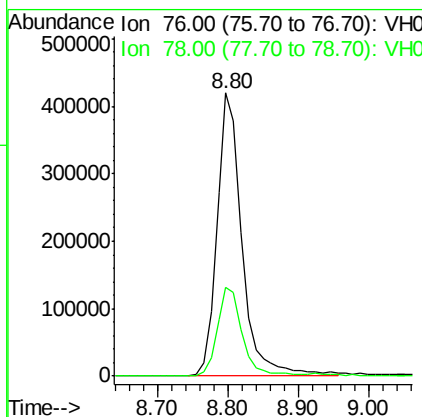
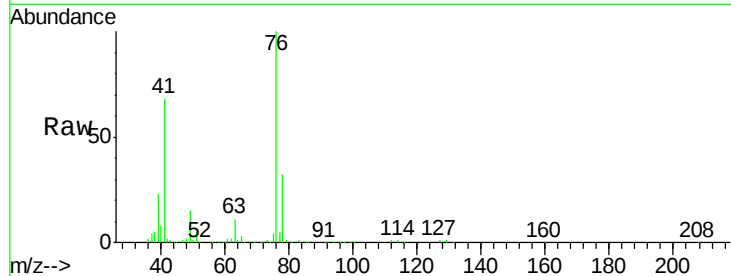
#57
 1,3-Dichloropropane
 Concen: 52.21 ug/l
 RT: 8.80 min Scan# 794
 Delta R.T. 0.00 min
 Lab File: VH057073.D
 Acq: 17 Sep 2015 19:02

Instrument :
 MSVOA_H
 ClientSampleId :
 VSTDICCC050

Tot Ion: 76 Resp: 1044211
 Ion Ratio Lower Upper
 76 100
 78 31.5 25.7 38.5

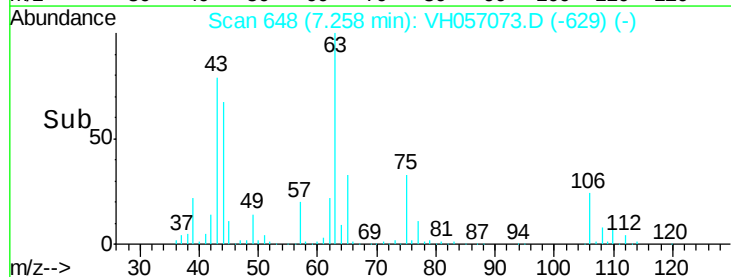
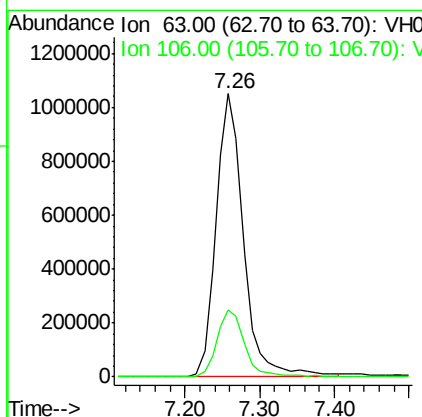
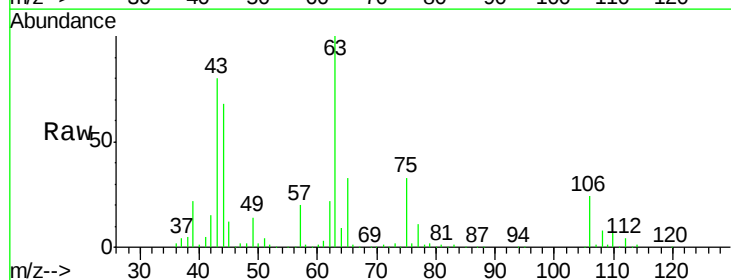
Manual Integrations
 APPROVED

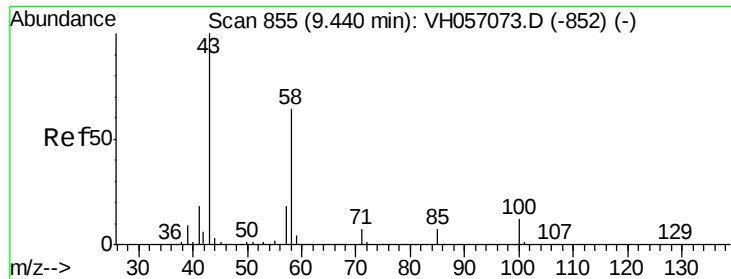
MMDadoda
 9/18/2015 3:41:08 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 156.76 ug/l
 RT: 7.26 min Scan# 648
 Delta R.T. 0.00 min
 Lab File: VH057073.D
 Acq: 17 Sep 2015 19:02

Tgt Ion: 63 Resp: 2661504
 Ion Ratio Lower Upper
 63 100
 106 23.7 18.0 27.0





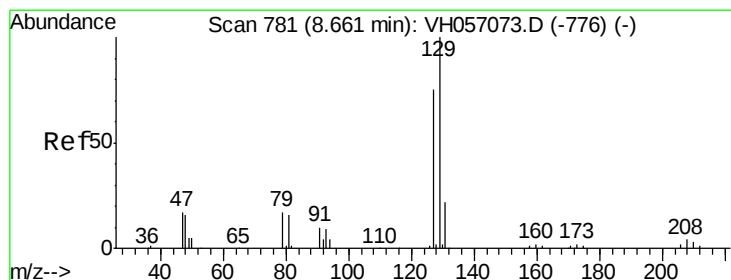
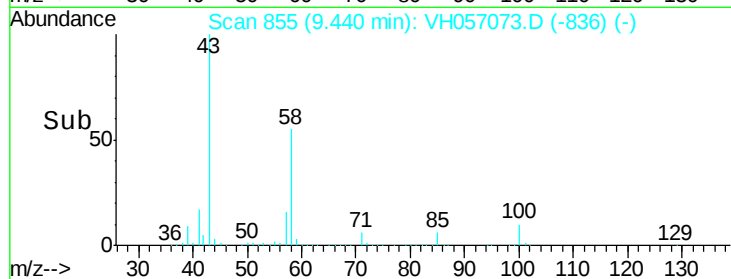
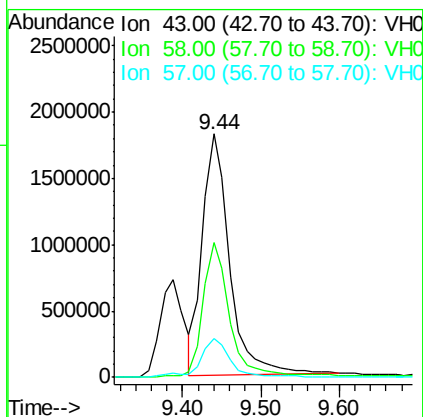
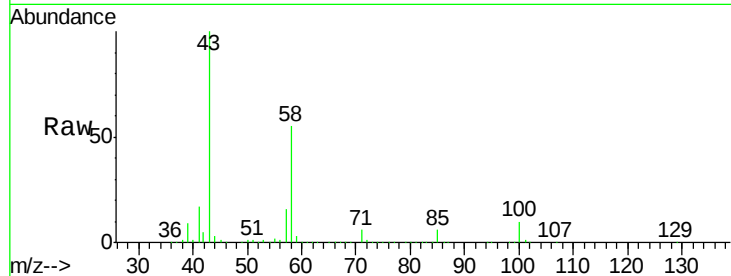
#59
2-Hexanone
Concen: 247.78 ug/l
RT: 9.44 min Scan# 855
Delta R.T. 0.00 min
Lab File: VH057073.D
Acq: 17 Sep 2015 19:02

Instrument :
MSVOA_H
ClientSampleId :
VSTDICCC050

Tot Ion: 43 Resp: 4364922
Ion Ratio Lower Upper
43 100
58 55.4 27.1 81.2
57 16.2 8.1 24.3

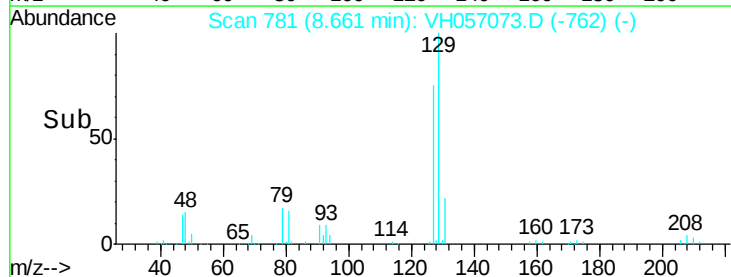
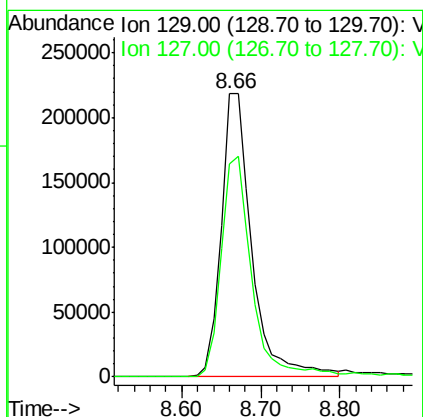
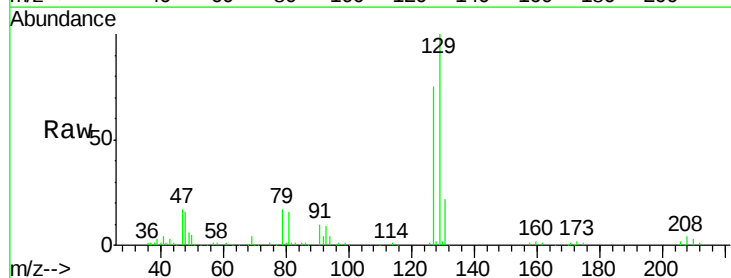
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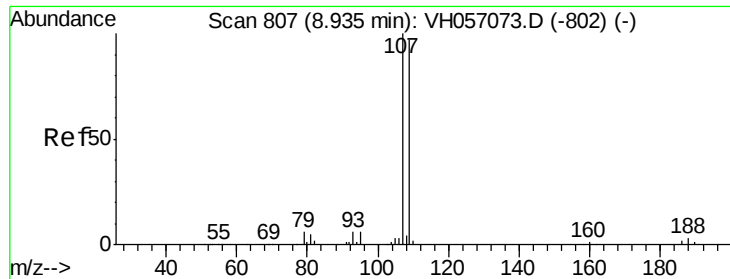
MMDadoda
9/18/2015 3:41:08 PM



#60
Dibromochloromethane
Concen: 53.94 ug/l
RT: 8.66 min Scan# 781
Delta R.T. 0.00 min
Lab File: VH057073.D
Acq: 17 Sep 2015 19:02

Tgt Ion: 129 Resp: 583753
Ion Ratio Lower Upper
129 100
127 75.2 38.5 115.3





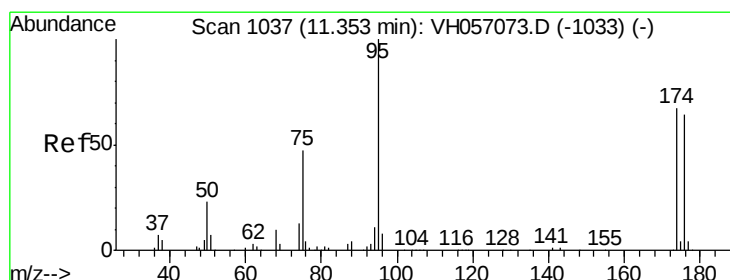
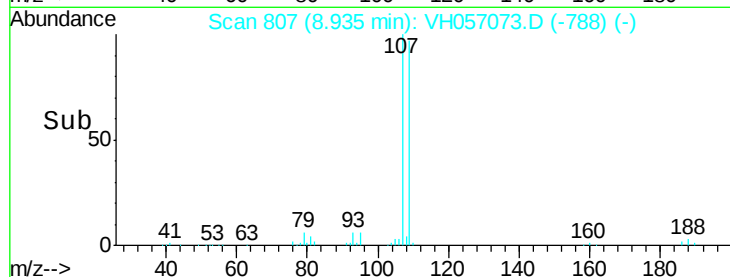
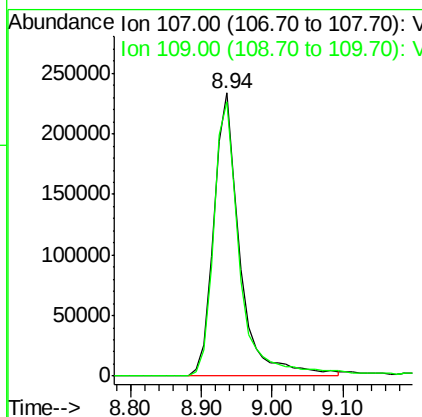
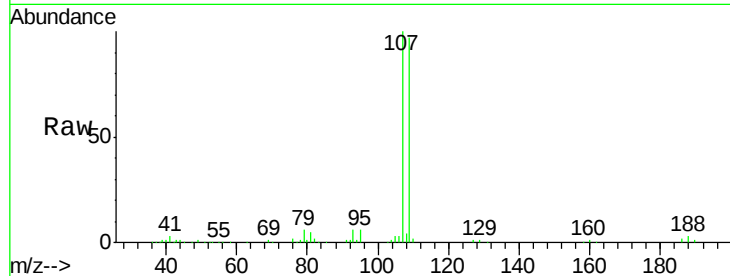
#61
 1,2-Dibromoethane
 Concen: 54.34 ug/l
 RT: 8.94 min Scan# 807
 Delta R.T. 0.00 min
 Lab File: VH057073.D
 Acq: 17 Sep 2015 19:02

Instrument :
 MSVOA_H
 ClientSampleId :
 VSTDICCC050

Tot Ion	Ion	Ratio	Resp	Lower	Upper
107	107	100	606841		
109	109	96.8	77.7	116.5	

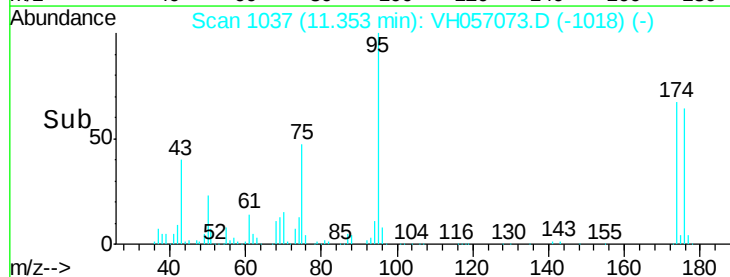
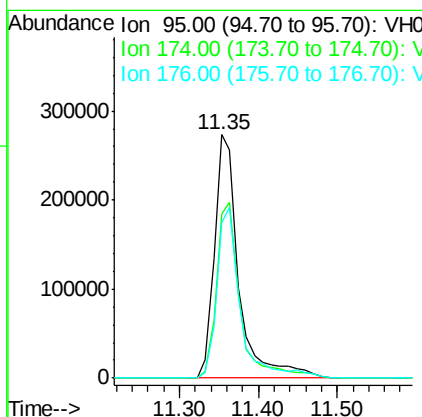
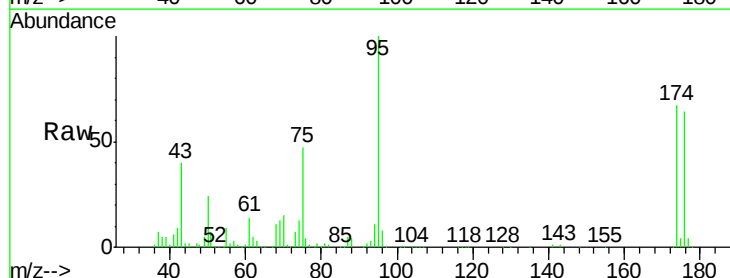
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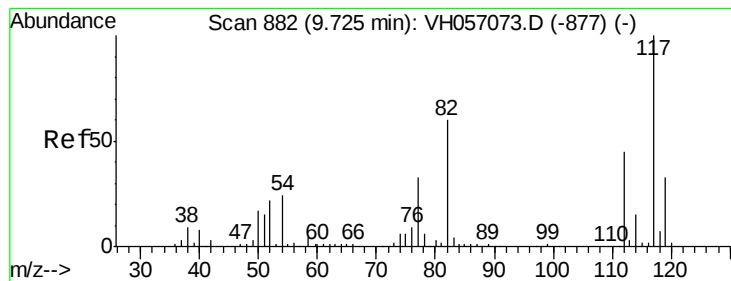
MMDadoda
 9/18/2015 3:41:08 PM



#62
 4-Bromofluorobenzene
 Concen: 60.04 ug/l
 RT: 11.35 min Scan# 1037
 Delta R.T. 0.00 min
 Lab File: VH057073.D
 Acq: 17 Sep 2015 19:02

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
95	95	100	597740		
174	174	67.3	58.4	87.6	
176	176	63.8	54.3	81.5	





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 9.73 min Scan# 882

Delta R.T. 0.00 min

Lab File: VH057073.D

Acq: 17 Sep 2015 19:02

Instrument :

MSVOA_H

ClientSampleId :

VSTDICCC050

Tot Ion:117 Resp: 1172798

Ion Ratio Lower Upper

117 100

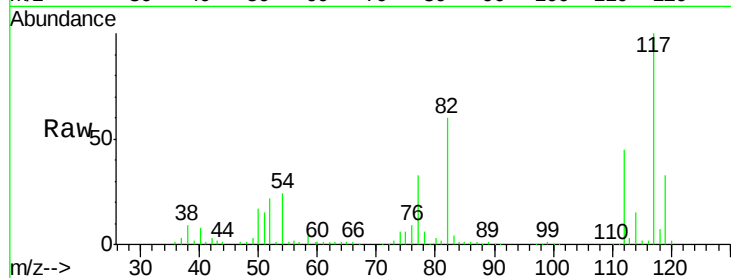
82 59.9 51.0 76.6

119 33.0 26.7 40.1

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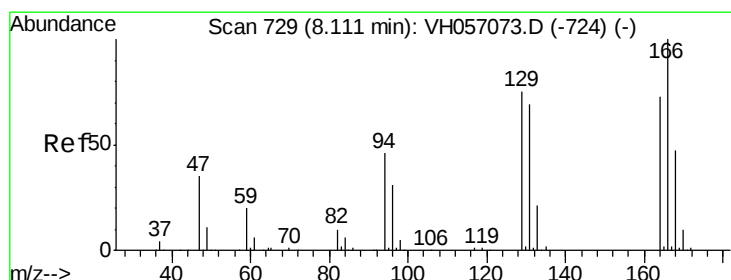
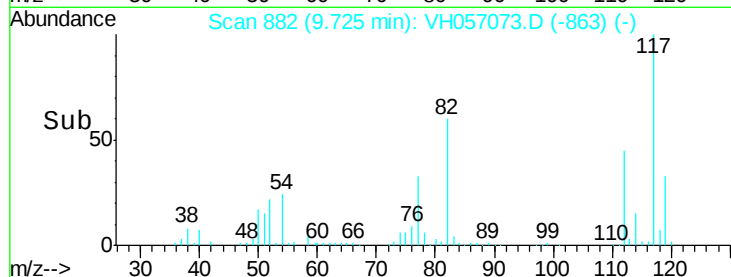
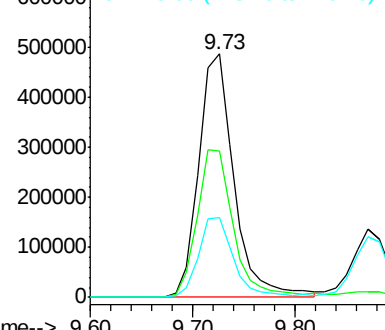
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Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): V

Ion 119.00 (118.70 to 119.70): V



#64

Tetrachloroethene

Concen: 48.08 ug/l

RT: 8.11 min Scan# 729

Delta R.T. 0.00 min

Lab File: VH057073.D

Acq: 17 Sep 2015 19:02

Tgt Ion:164 Resp: 317705

Ion Ratio Lower Upper

164 100

166 137.3 103.2 154.8

129 103.3 73.4 110.0

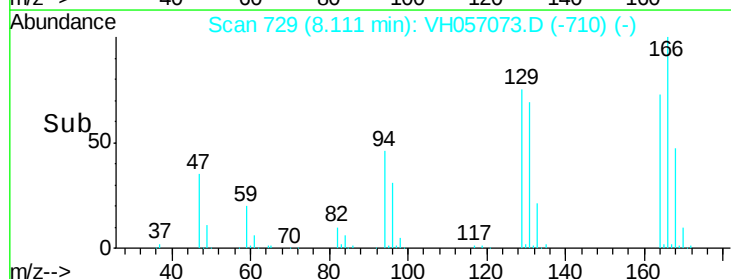
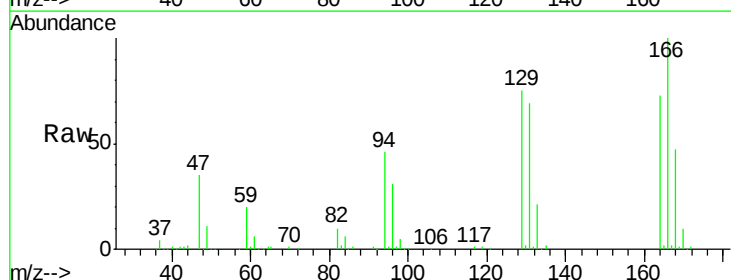
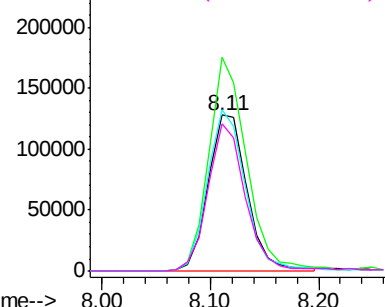
131 94.7 70.8 106.2

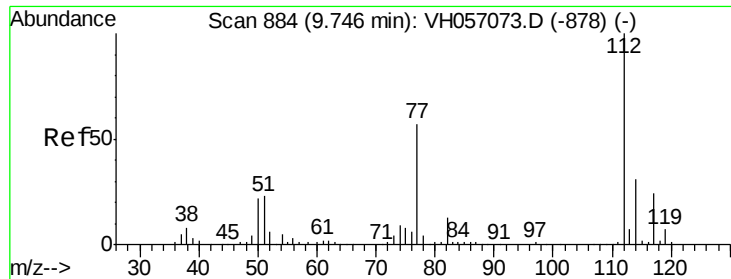
Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V





#65

Chlorobenzene

Concen: 53.40 ug/l

RT: 9.75 min Scan# 884

Delta R.T. 0.00 min

Lab File: VH057073.D

Acq: 17 Sep 2015 19:02

Instrument :

MSVOA_H

ClientSampleId :

VSTDICCC050

Tot Ion:112 Resp: 1307423

Ion Ratio Lower Upper

112 100

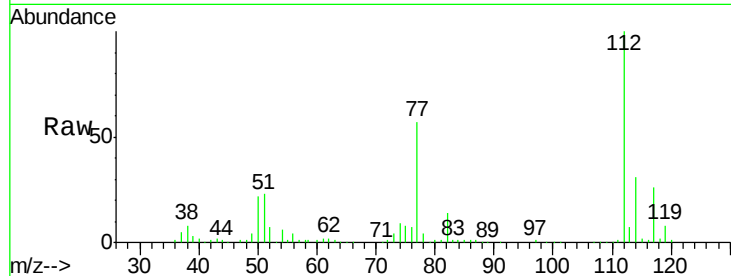
114 31.2 26.3 39.5

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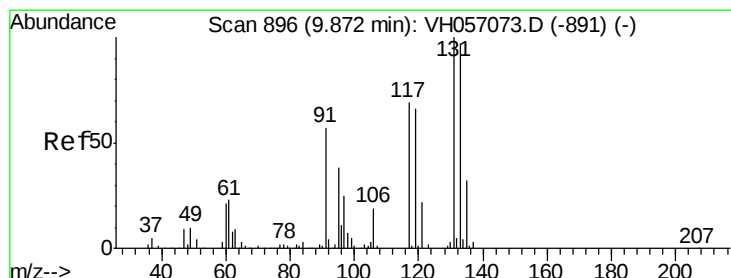
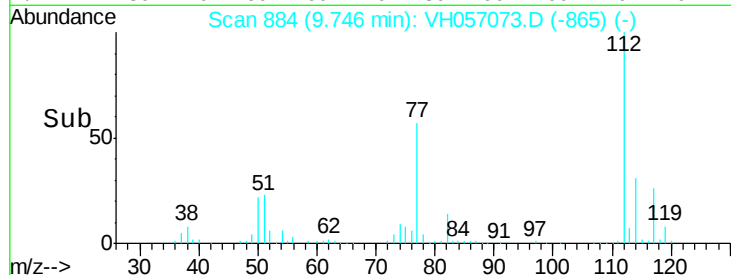
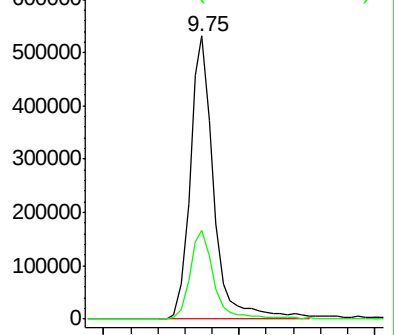
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Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V



#66

1,1,1,2-Tetrachloroethane

Concen: 51.13 ug/l

RT: 9.87 min Scan# 896

Delta R.T. 0.00 min

Lab File: VH057073.D

Acq: 17 Sep 2015 19:02

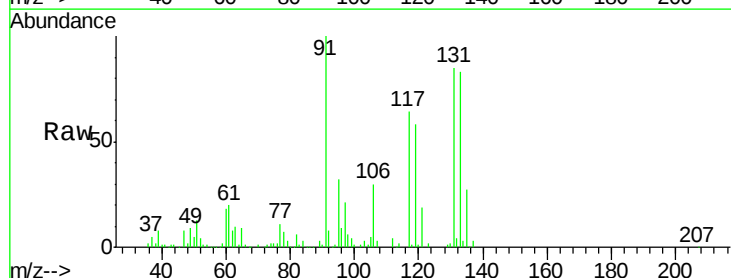
Tgt Ion:131 Resp: 439603

Ion Ratio Lower Upper

131 100

133 97.3 51.1 153.3

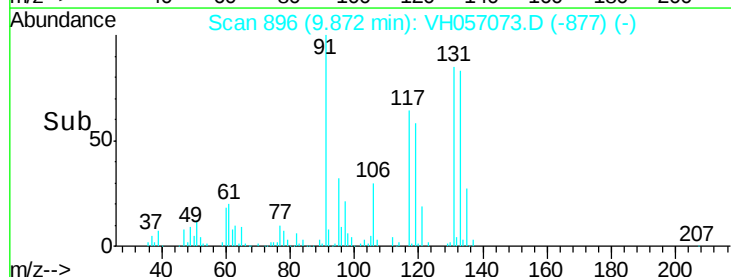
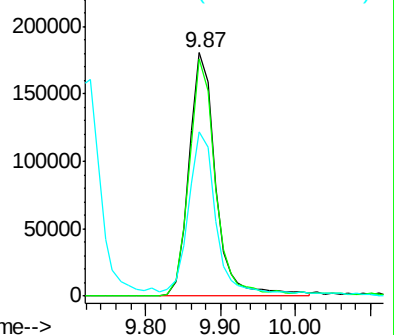
119 67.7 36.3 108.9

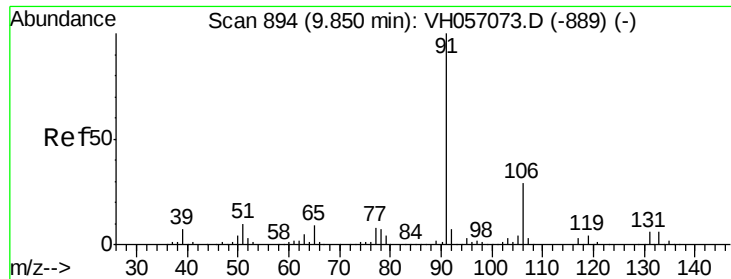


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#67

Ethyl Benzene

Concen: 48.78 ug/l

RT: 9.85 min Scan# 894

Delta R.T. 0.00 min

Lab File: VH057073.D

Acq: 17 Sep 2015 19:02

Instrument :

MSVOA_H

ClientSampleId :

VSTDICCC050

Tot Ion:106 Resp: 598700

Ion Ratio Lower Upper

106 100

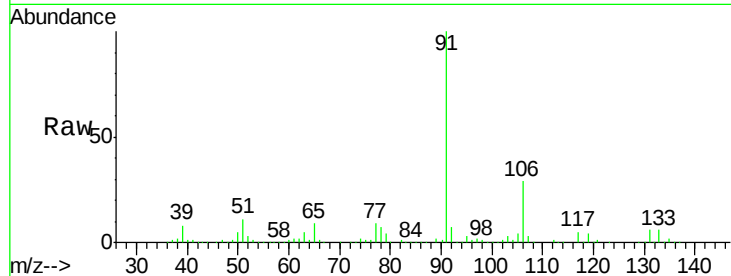
91 339.3 264.9 397.3

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Abundance Ion 106.05 (105.75 to 106.75): V

Ion 91.00 (90.70 to 91.70): VH0

1500000

1000000

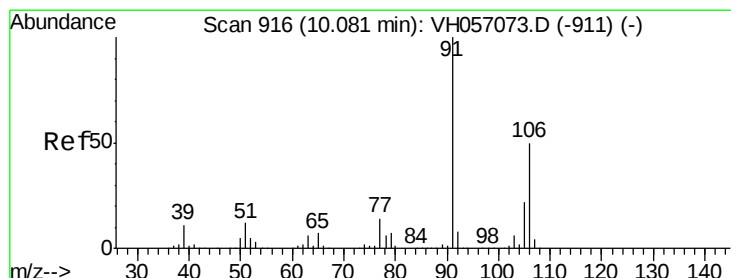
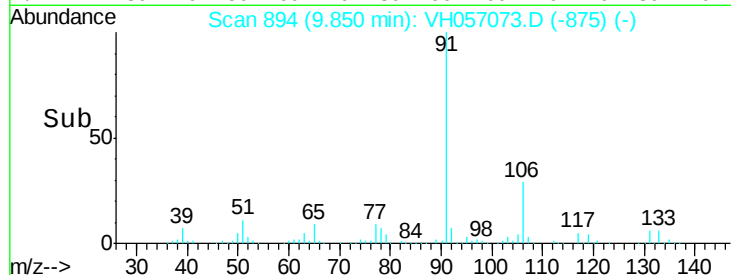
500000

0

9.85

9.70 9.80 9.90 10.00

Time-->



#68

m/p-Xylenes

Concen: 101.60 ug/l

RT: 10.08 min Scan# 916

Delta R.T. 0.00 min

Lab File: VH057073.D

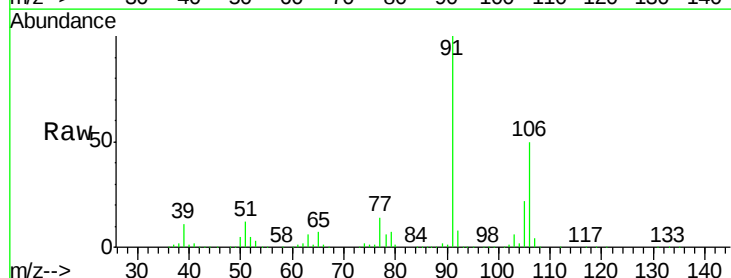
Acq: 17 Sep 2015 19:02

Tgt Ion:106 Resp: 1498122

Ion Ratio Lower Upper

106 100

91 201.7 164.4 246.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VH0

1500000

1000000

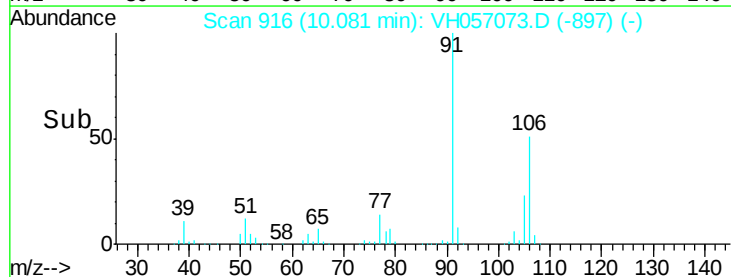
500000

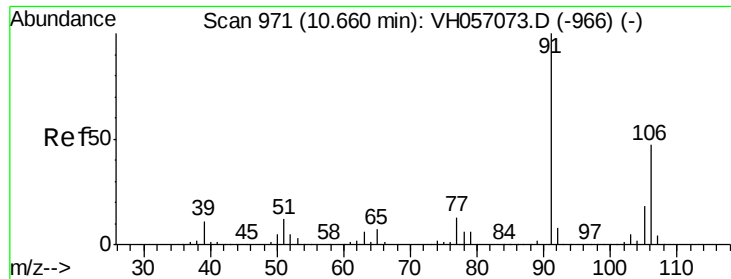
0

10.08

10.00 10.10 10.20 10.30

Time-->





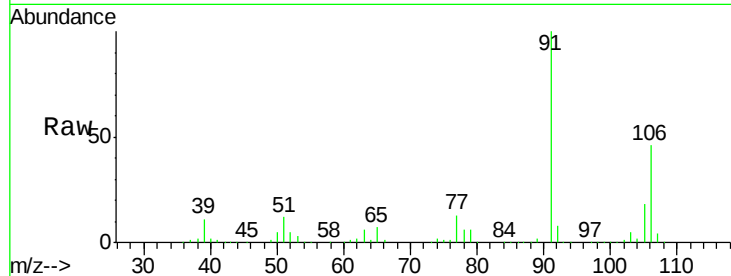
#69
o-Xylene
Concen: 50.15 ug/l
RT: 10.66 min Scan# 971
Delta R.T. 0.00 min
Lab File: VH057073.D
Acq: 17 Sep 2015 19:02

Instrument :
MSVOA_H
ClientSampled :
VSTDICCC050

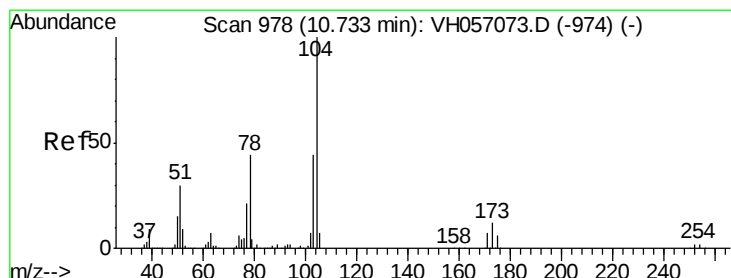
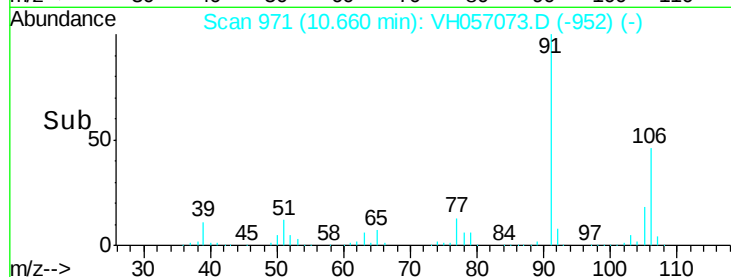
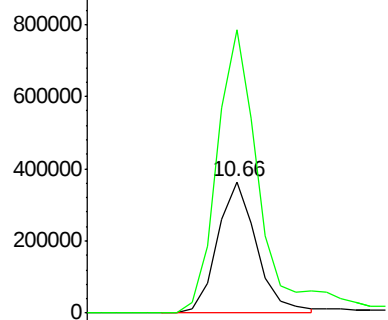
Tot Ion:106 Resp: 713695
Ion Ratio Lower Upper
106 100
91 215.2 104.2 312.6

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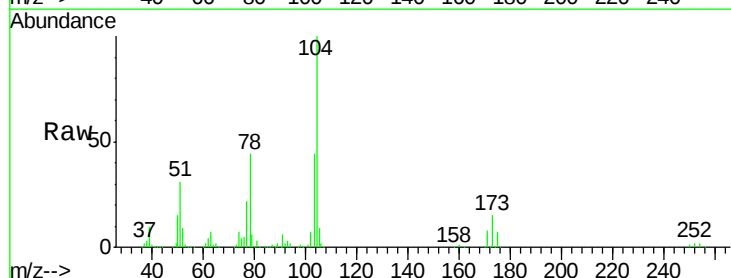


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VH0

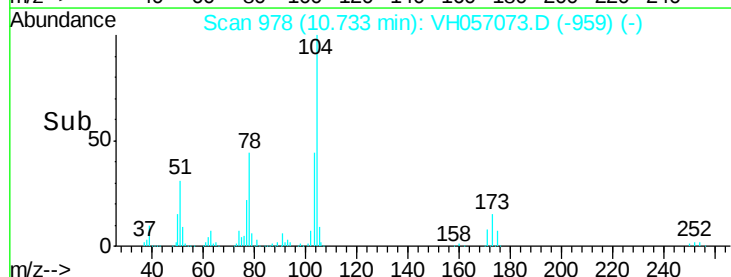
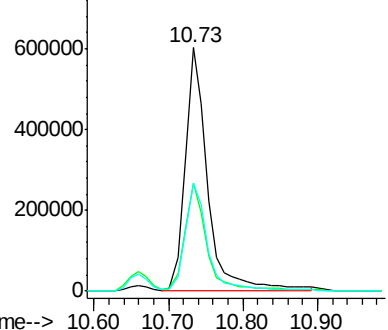


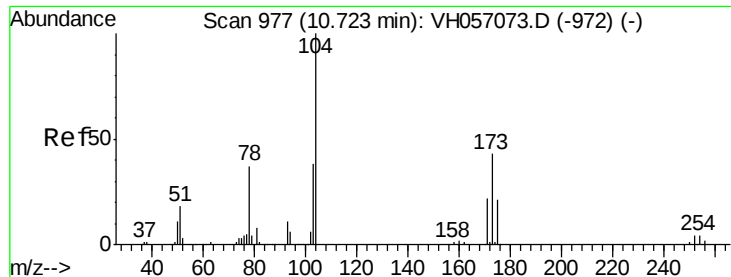
#70
Styrene
Concen: 52.81 ug/l
RT: 10.73 min Scan# 978
Delta R.T. 0.00 min
Lab File: VH057073.D
Acq: 17 Sep 2015 19:02

Tgt Ion:104 Resp: 1266471
Ion Ratio Lower Upper
104 100
78 44.1 35.2 52.8
103 44.1 35.8 53.6



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VH0
Ion 103.00 (102.70 to 103.70): V





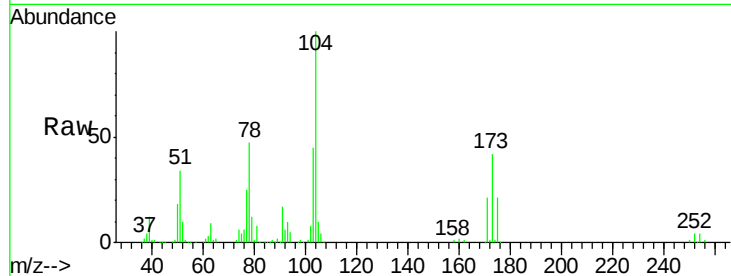
#71
Bromoform
Concen: 54.78 ug/l
RT: 10.72 min Scan# 977
Delta R.T. 0.00 min
Lab File: VH057073.D
Acq: 17 Sep 2015 19:02

Instrument :
MSVOA_H
ClientSampleId :
VSTDICCC050

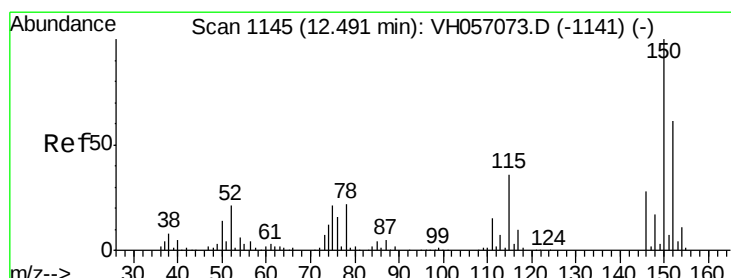
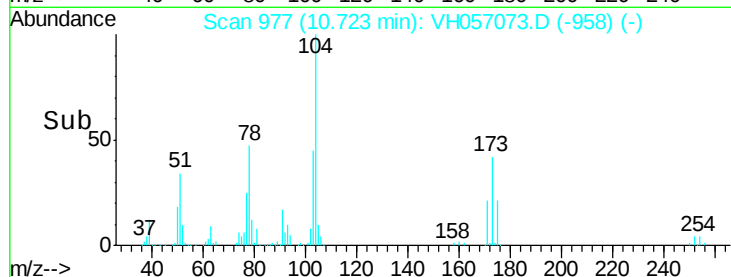
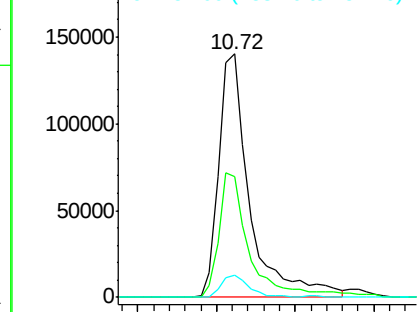
Tot Ion	Ratio	Resp	Lower	Upper
173	100			
175	49.4	23.3	69.9	
254	9.3	4.4	13.2	

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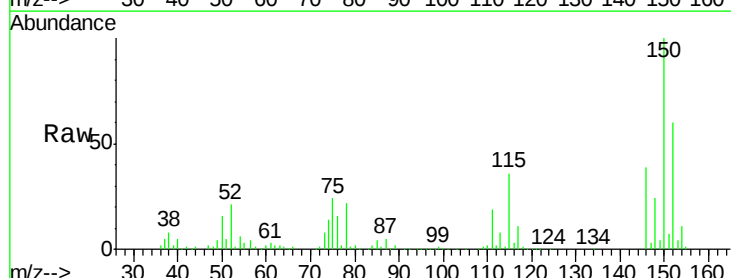


Abundance Ion 173.00 (172.70 to 173.70): V
Ion 175.00 (174.70 to 175.70): V
Ion 254.00 (253.70 to 254.70): V

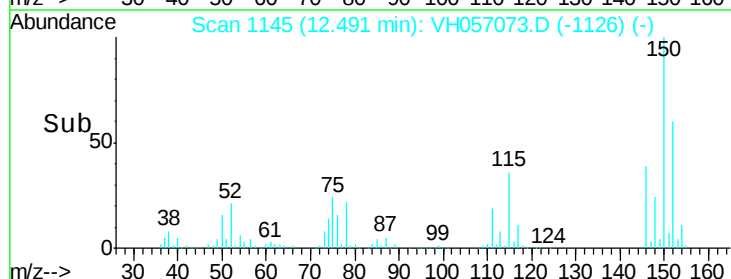
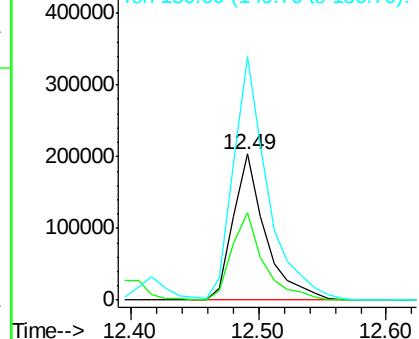


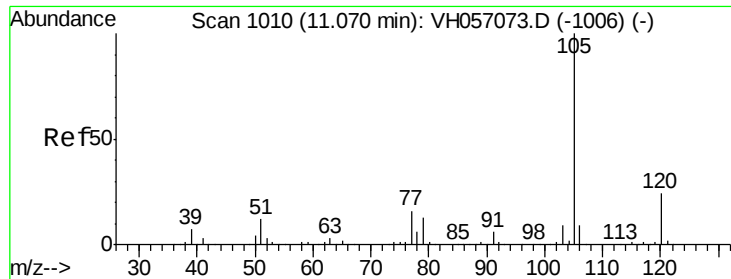
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.49 min Scan# 1145
Delta R.T. 0.00 min
Lab File: VH057073.D
Acq: 17 Sep 2015 19:02

Tgt Ion	Ratio	Resp	Lower	Upper
152	100			
115	59.8	28.2	84.6	
150	166.9	0.0	332.0	



Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V





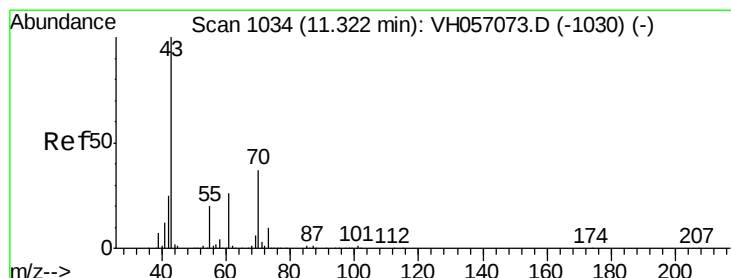
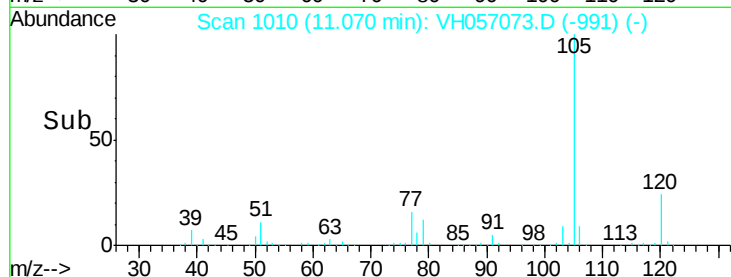
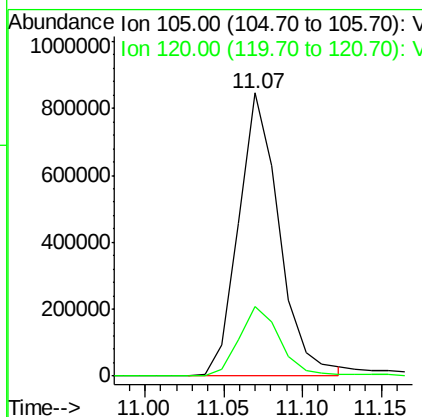
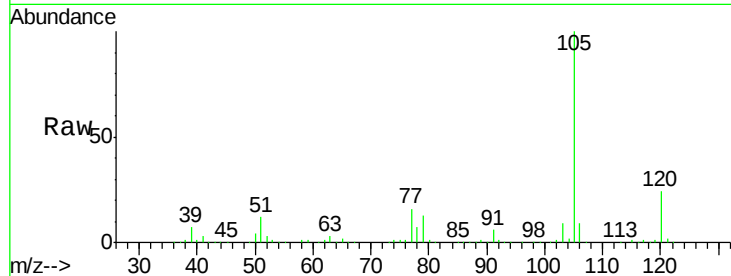
#73
Isopropylbenzene
Concen: 44.74 ug/l
RT: 11.07 min Scan# 1010
Delta R.T. 0.00 min
Lab File: VH057073.D
Acq: 17 Sep 2015 19:02

Instrument :
MSVOA_H
ClientSampleId :
VSTDICCC050

Tot Ion:105 Resp: 1509508
Ion Ratio Lower Upper
105 100
120 24.4 12.2 36.4

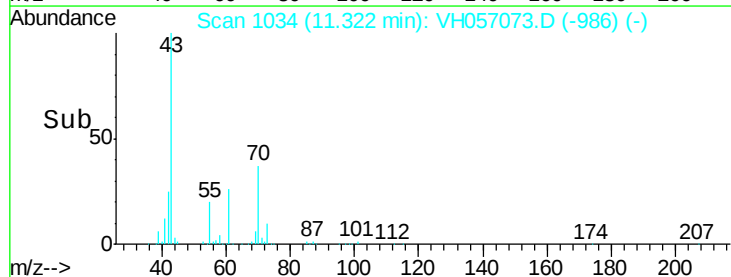
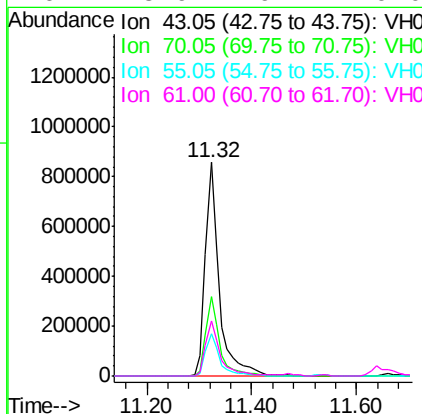
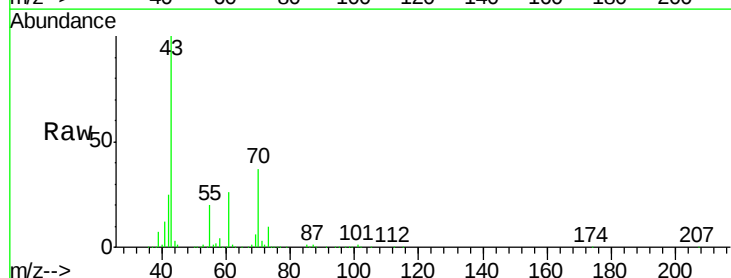
Manual Integrations
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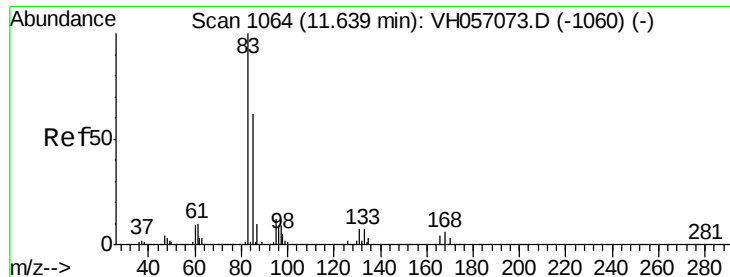
MMDadoda
9/18/2015 3:41:08 PM



#74
n-Amyl Acetate
Concen: 43.33 ug/l
RT: 11.32 min Scan# 1034
Delta R.T. 0.00 min
Lab File: VH057073.D
Acq: 17 Sep 2015 19:02

Tgt Ion: 43 Resp: 1589791
Ion Ratio Lower Upper
43 100
70 37.1 27.3 40.9
55 19.5 15.3 22.9
61 25.9 19.4 29.0





#75

1,1,2,2-Tetrachloroethane

Concen: 45.36 ug/l

RT: 11.64 min Scan# 1064

Delta R.T. 0.00 min

Lab File: VH057073.D

Acq: 17 Sep 2015 19:02

Instrument :

MSVOA_H

ClientSampleId :

VSTDICCC050

Tot Ion: 83 Resp: 791159
Ion Ratio Lower Upper

83 100

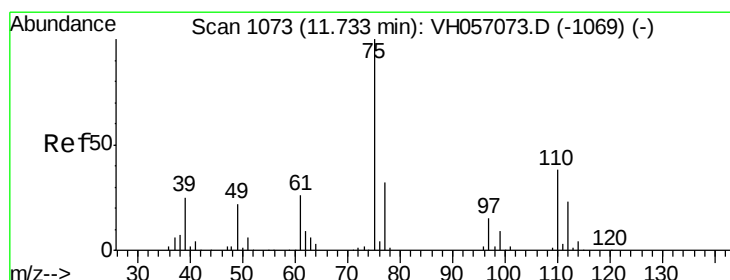
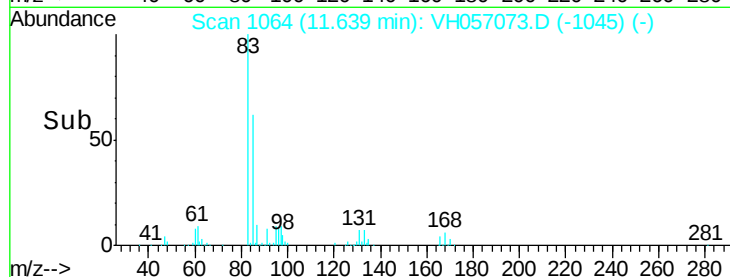
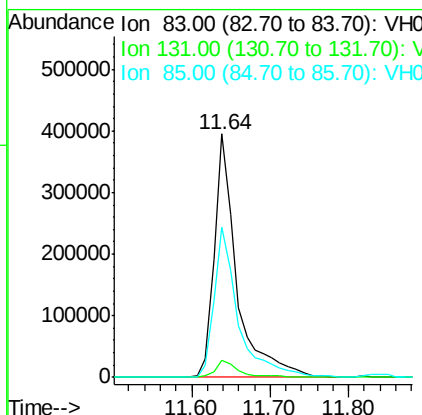
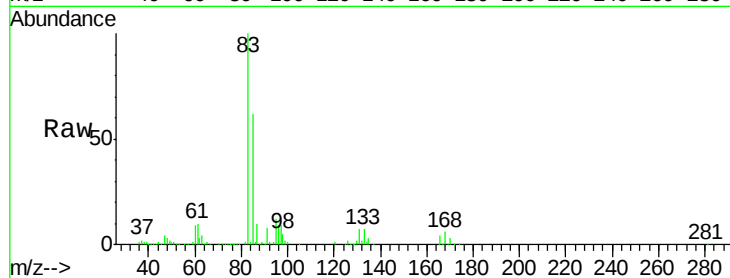
131 7.2 3.1 9.3

85 61.9 32.3 96.8

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 45.48 ug/l

RT: 11.73 min Scan# 1073

Delta R.T. 0.00 min

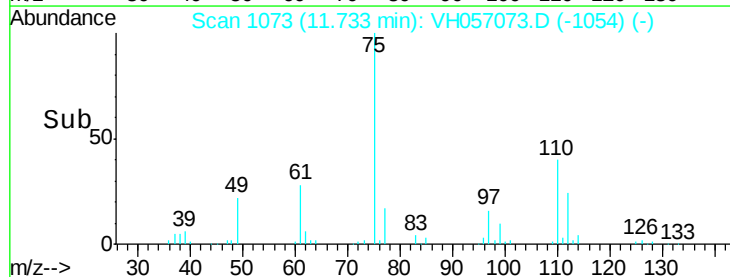
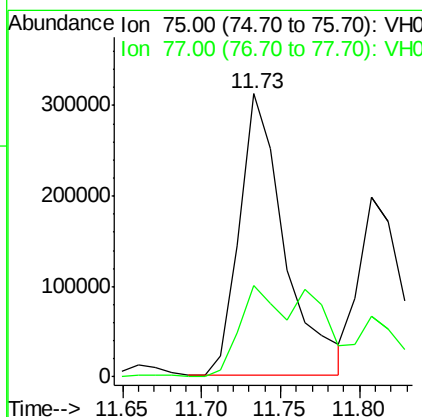
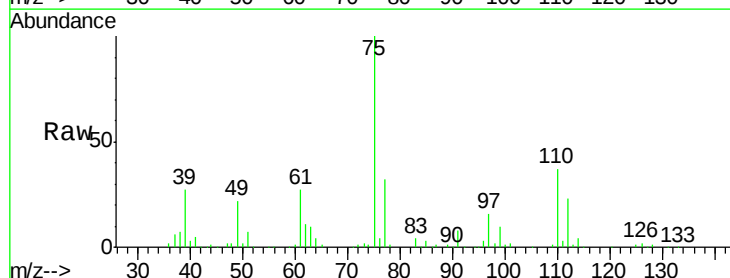
Lab File: VH057073.D

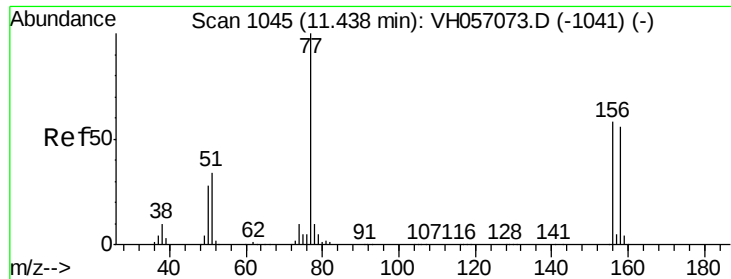
Acq: 17 Sep 2015 19:02

Tgt Ion: 75 Resp: 617420
Ion Ratio Lower Upper

75 100

77 32.1 14.9 44.9





#77

Bromobenzene

Concen: 49.41 ug/l

RT: 11.44 min Scan# 1045

Delta R.T. 0.00 min

Lab File: VH057073.D

Acq: 17 Sep 2015 19:02

Instrument :

MSVOA_H

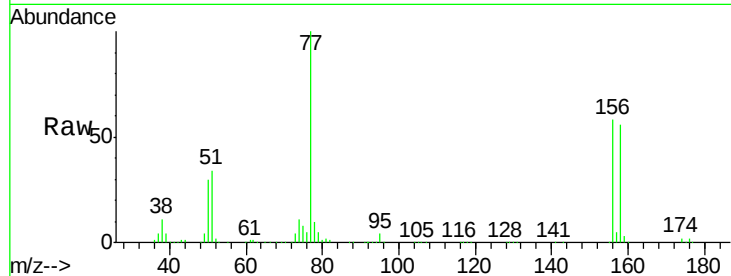
ClientSampleId :

VSTDICCC050

Tot Ion	Ion	Ratio	Resp	Lower	Upper
156	100		449490		
77	171.5	73.5	220.5		
158	96.3	46.8	140.3		

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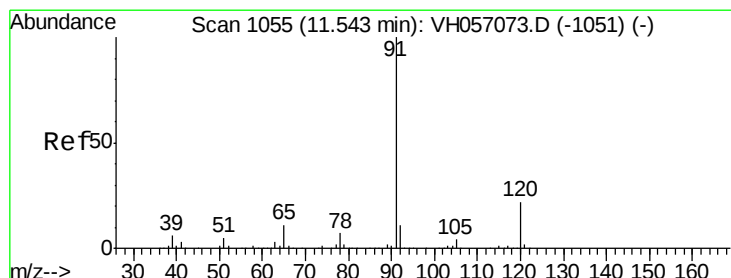
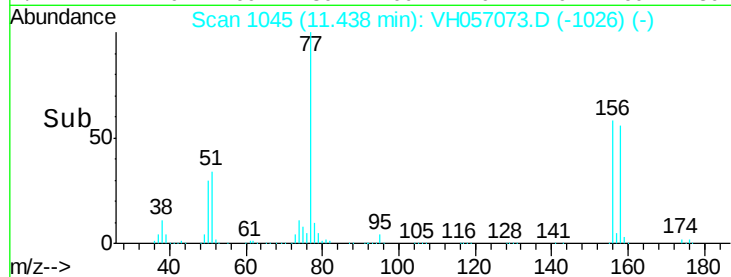
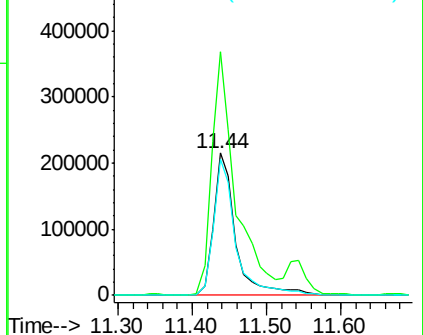


Abundance

Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): V

Ion 158.00 (157.70 to 158.70): V



#78

n-propylbenzene

Concen: 47.00 ug/l

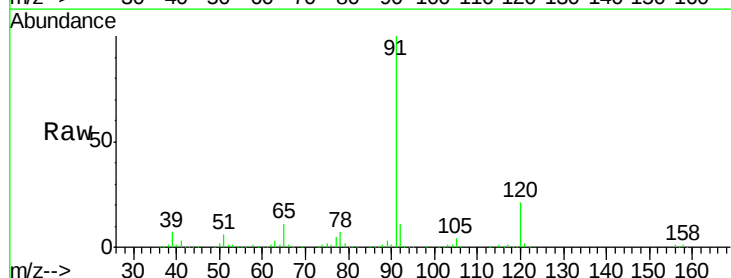
RT: 11.54 min Scan# 1055

Delta R.T. 0.00 min

Lab File: VH057073.D

Acq: 17 Sep 2015 19:02

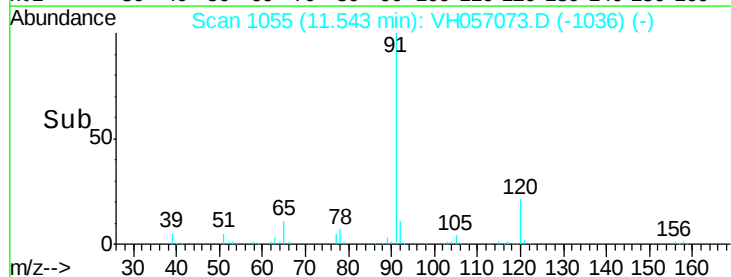
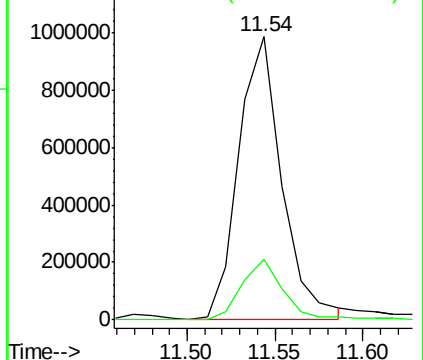
Tgt Ion	Ion	Ratio	Resp	Lower	Upper
91	100		1667571		
120	21.5	10.2	30.6		

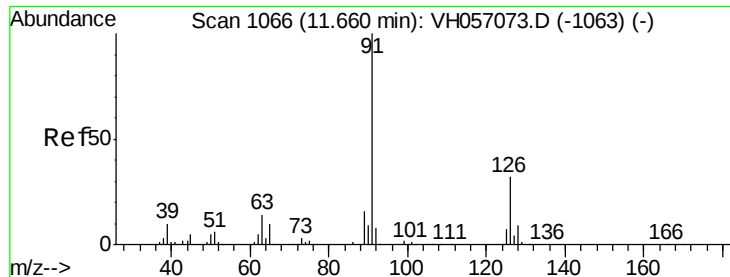


Abundance

Ion 91.00 (90.70 to 91.70): V

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 45.53 ug/l

RT: 11.66 min Scan# 1066

Delta R.T. 0.00 min

Lab File: VH057073.D

Acq: 17 Sep 2015 19:02

Instrument :

MSVOA_H

ClientSampleId :

VSTDICCC050

Tot Ion: 91 Resp: 978575

Ion Ratio Lower Upper

91 100

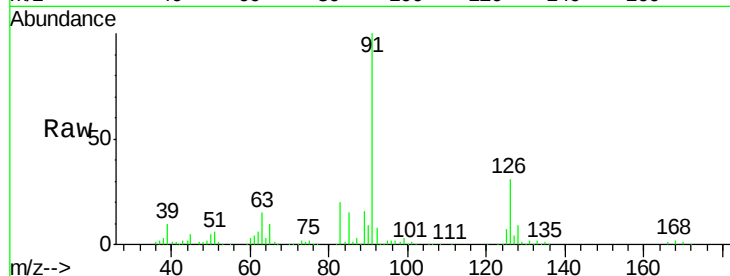
126 30.8 16.3 48.9

Manual Integrations

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Abundance Ion 91.00 (90.70 to 91.70): VH057073.D (-1063) (-)

Ion 126.00 (125.70 to 126.70): VH057073.D (-1063) (-)

11.66

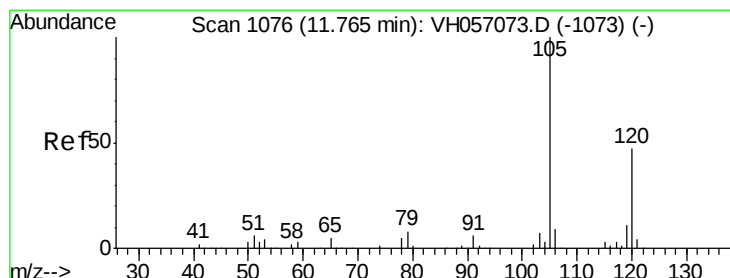
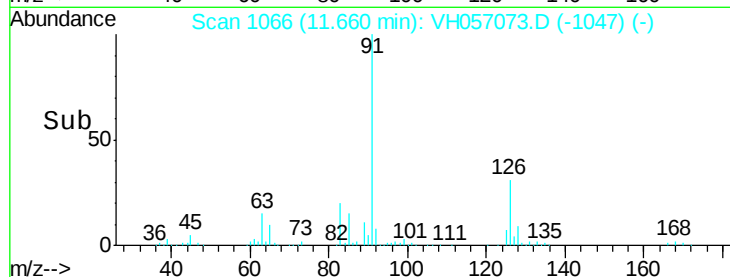
600000

400000

200000

0

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 48.14 ug/l

RT: 11.77 min Scan# 1076

Delta R.T. 0.00 min

Lab File: VH057073.D

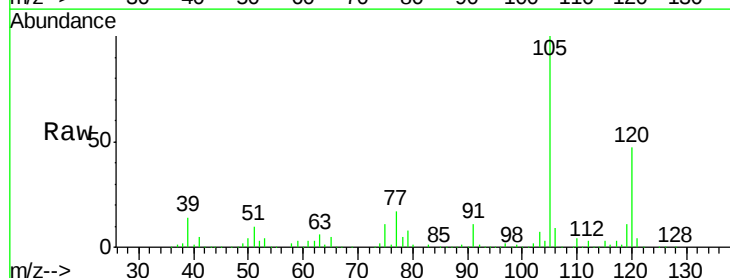
Acq: 17 Sep 2015 19:02

Tgt Ion:105 Resp: 1004728

Ion Ratio Lower Upper

105 100

120 47.0 23.6 71.0



Abundance Ion 105.00 (104.70 to 105.70): VH057073.D (-1073) (-)

Ion 120.00 (119.70 to 120.70): VH057073.D (-1073) (-)

11.77

600000

500000

400000

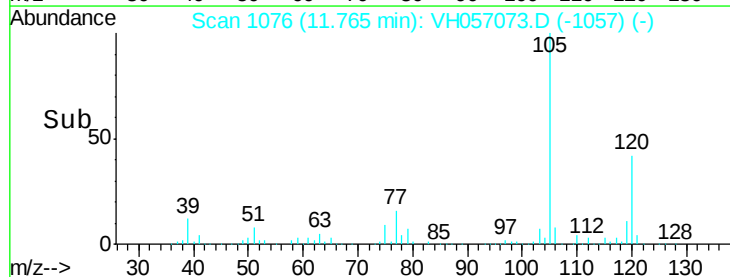
300000

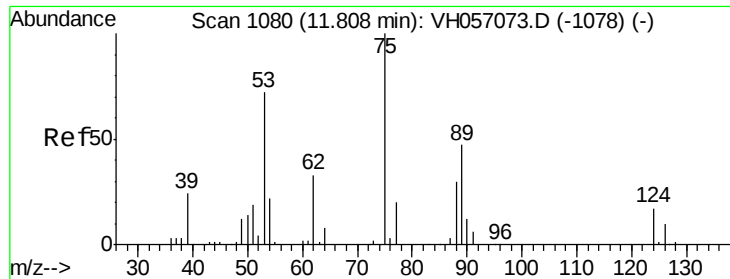
200000

100000

0

Time-->





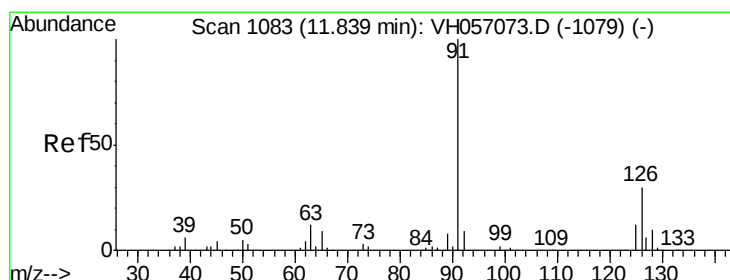
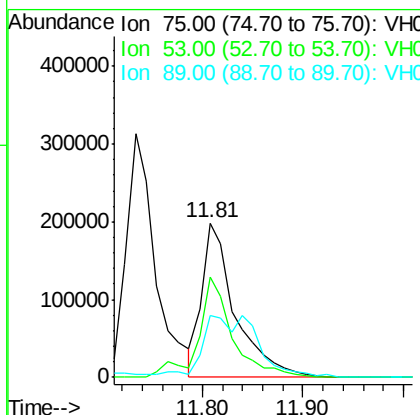
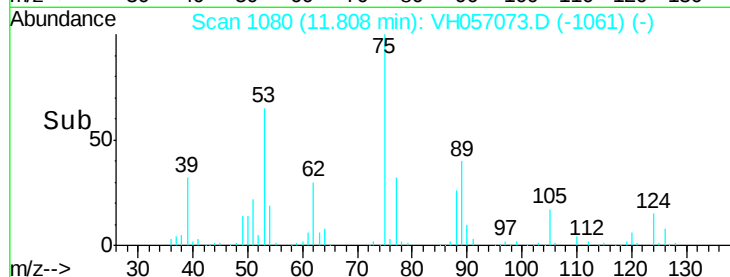
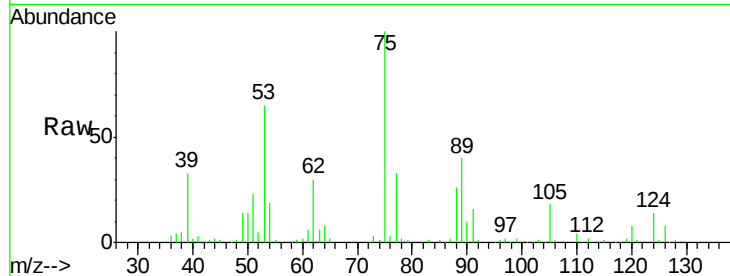
#81
trans-1,4-Dichloro-2-Butene
Concen: 43.84 ug/l
RT: 11.81 min Scan# 1080
Delta R.T. 0.00 min
Lab File: VH057073.D
Acq: 17 Sep 2015 19:02

Instrument :
MSVOA_H
ClientSampleId :
VSTDICCC050

Tot Ion	Ratio	Lower	Upper
75	100		
53	64.8	32.0	96.2
89	40.4	21.1	63.3

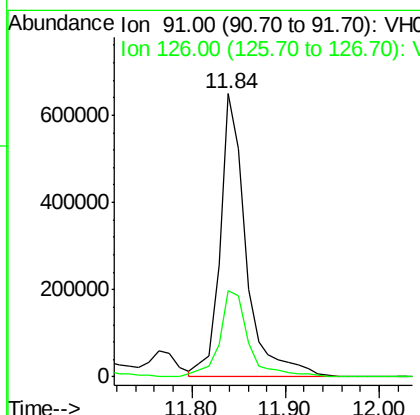
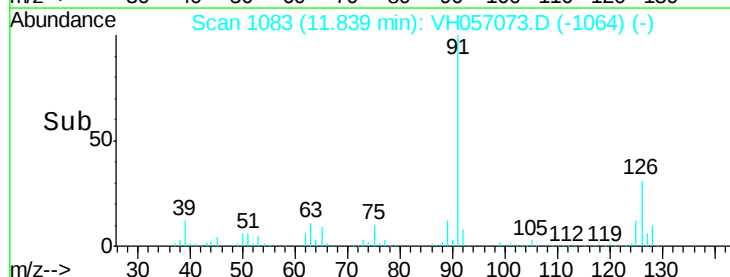
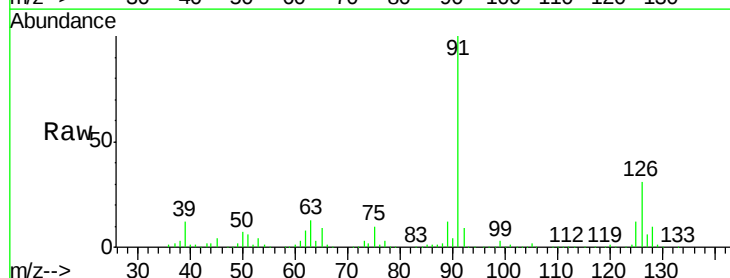
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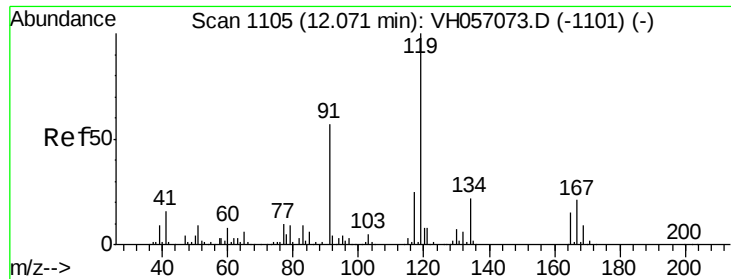
MMDadoda
9/18/2015 3:41:08 PM



#82
4-Chlorotoluene
Concen: 48.11 ug/l
RT: 11.84 min Scan# 1083
Delta R.T. 0.00 min
Lab File: VH057073.D
Acq: 17 Sep 2015 19:02

Tgt Ion	Ratio	Lower	Upper
91	100		
126	30.6	17.0	51.0





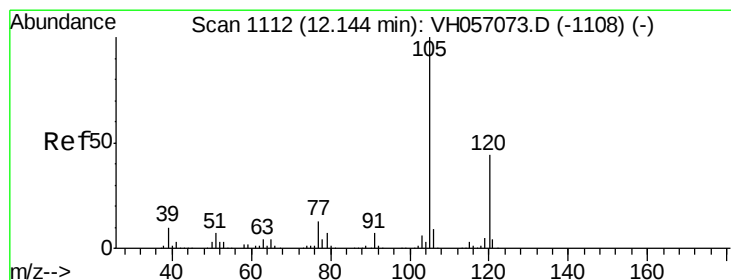
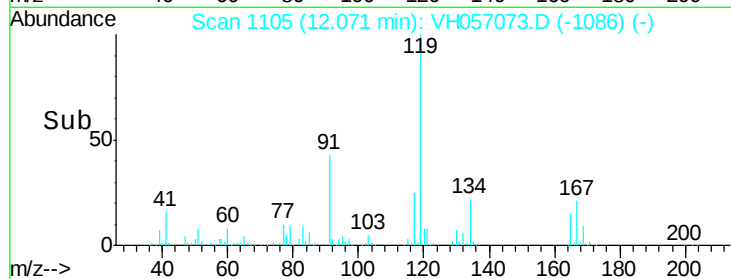
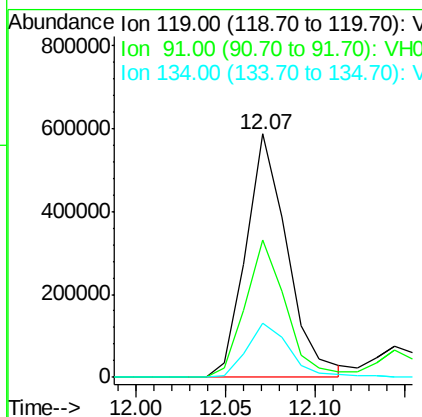
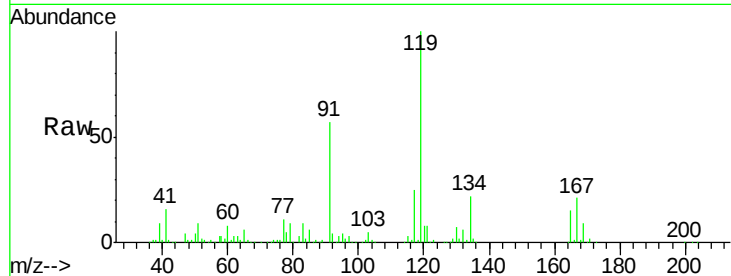
#83
 tert-Butylbenzene
 Concen: 47.06 ug/l
 RT: 12.07 min Scan# 1105
 Delta R.T. 0.00 min
 Lab File: VH057073.D
 Acq: 17 Sep 2015 19:02

Instrument :
 MSVOA_H
 ClientSampleId :
 VSTDICCC050

Tot Ion	Ratio	Resp	Lower	Upper
119	100	923753		
91	56.6	28.5	85.6	
134	22.2	11.5	34.5	

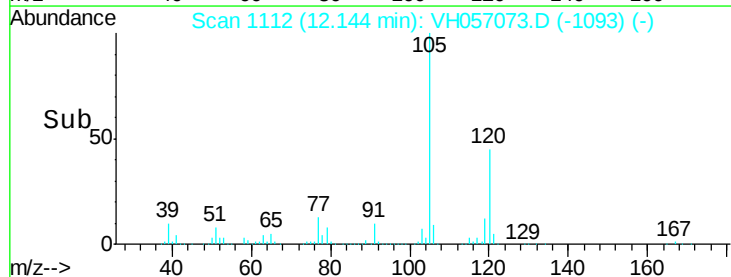
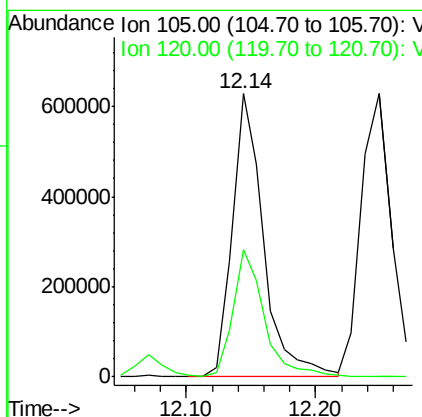
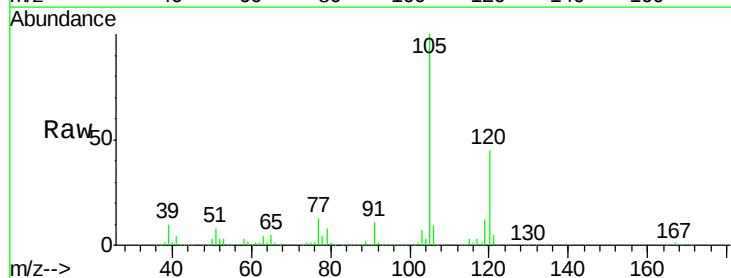
Manual Integrations
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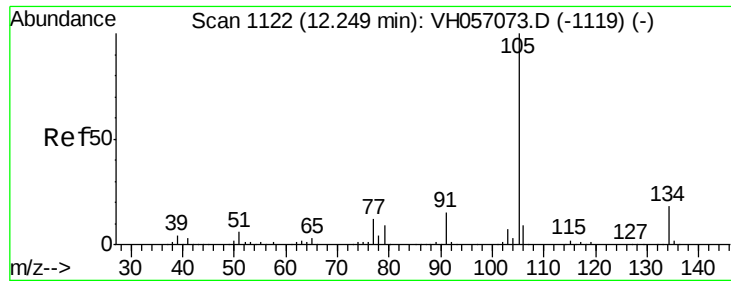
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#84
 1,2,4-Trimethylbenzene
 Concen: 49.91 ug/l
 RT: 12.14 min Scan# 1112
 Delta R.T. 0.00 min
 Lab File: VH057073.D
 Acq: 17 Sep 2015 19:02

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	1052588		
120	44.9	22.6	67.7	





#85

sec-Butylbenzene

Concen: 50.47 ug/l

RT: 12.25 min Scan# 1122

Delta R.T. 0.00 min

Lab File: VH057073.D

Acq: 17 Sep 2015 19:02

Instrument :

MSVOA_H

ClientSampleId :

VSTDICCC050

Tot Ion:105 Resp: 1054142

Ion Ratio Lower Upper

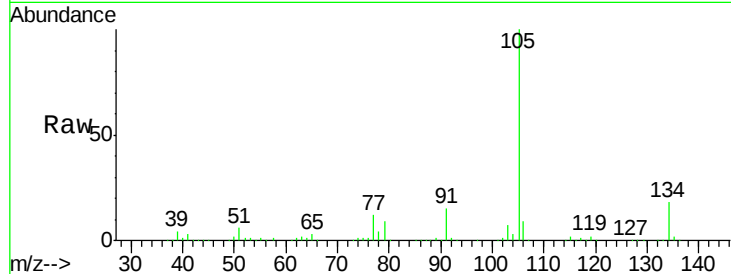
105 100

134 18.2 9.1 27.3

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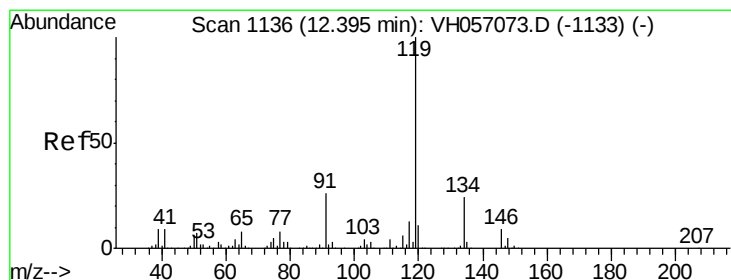
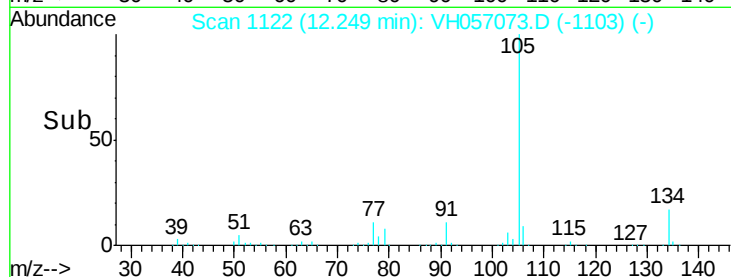
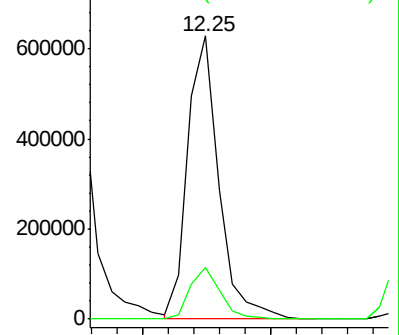
MMDadoda

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 49.05 ug/l

RT: 12.40 min Scan# 1136

Delta R.T. 0.00 min

Lab File: VH057073.D

Acq: 17 Sep 2015 19:02

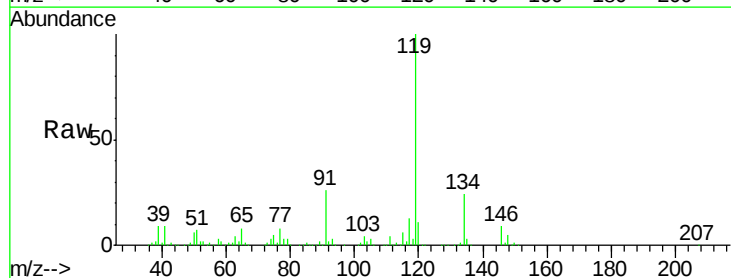
Tgt Ion:119 Resp: 785664

Ion Ratio Lower Upper

119 100

134 23.9 13.0 38.9

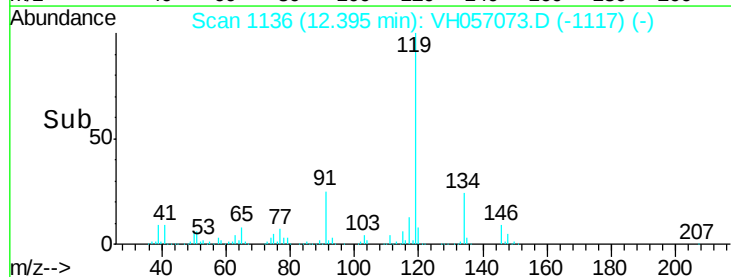
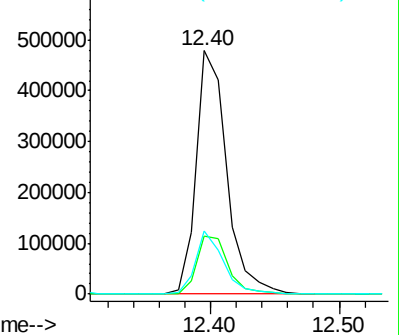
91 26.0 12.5 37.5

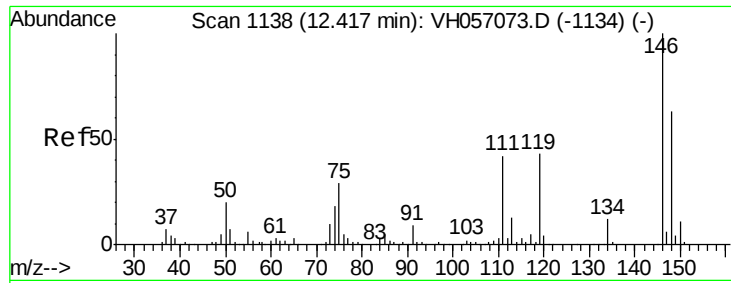


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





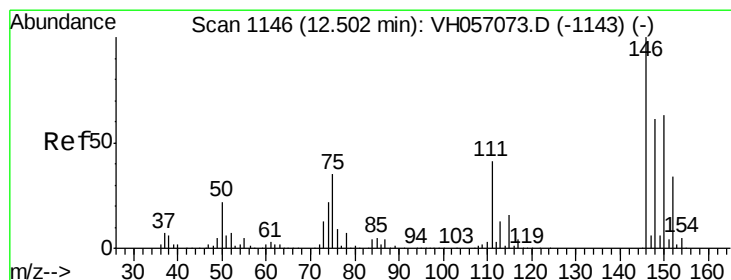
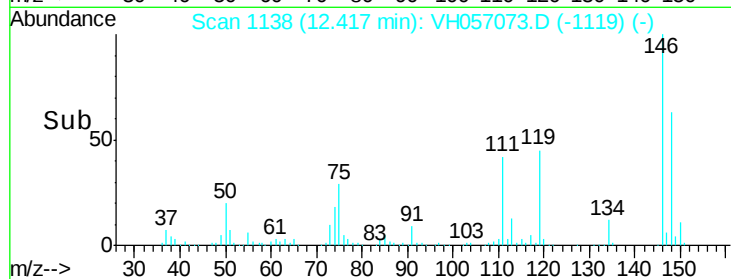
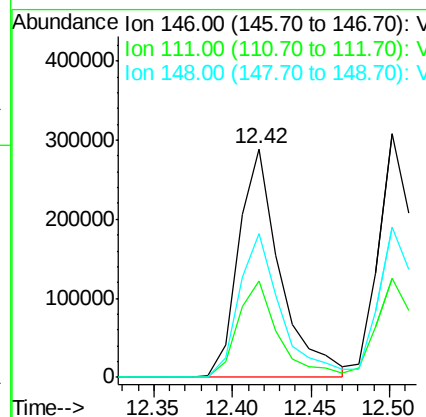
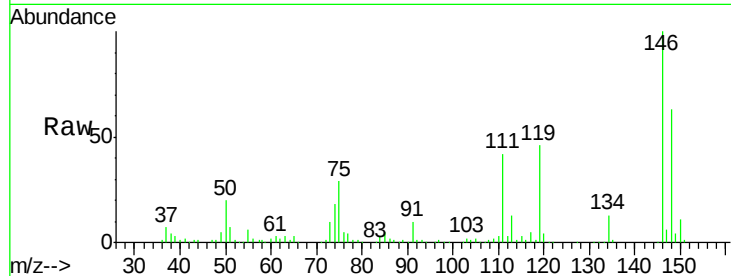
#87
 1,3-Dichlorobenzene
 Concen: 48.79 ug/l
 RT: 12.42 min Scan# 1138
 Delta R.T. 0.00 min
 Lab File: VH057073.D
 Acq: 17 Sep 2015 19:02

Instrument :
 MSVOA_H
 ClientSampleId :
 VSTDICCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.0	21.0	63.0
148	62.9	31.6	94.7

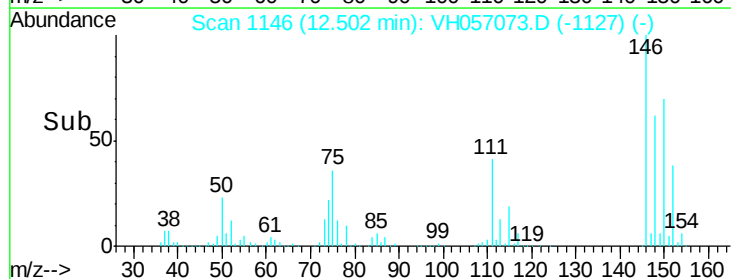
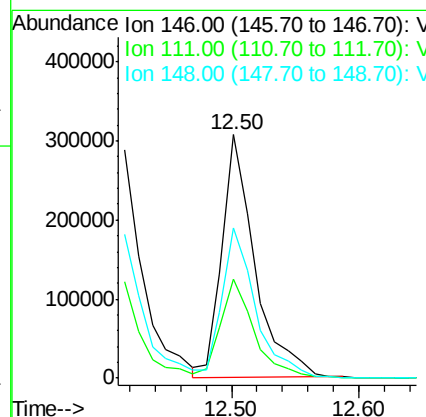
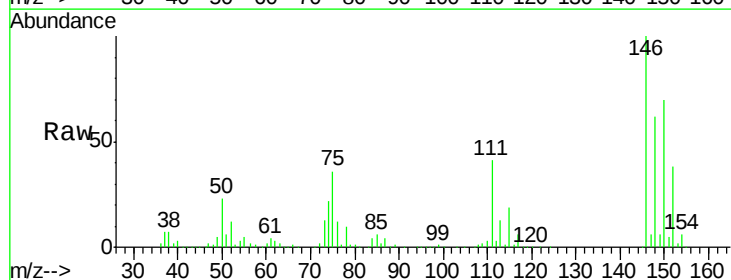
Manual Integrations
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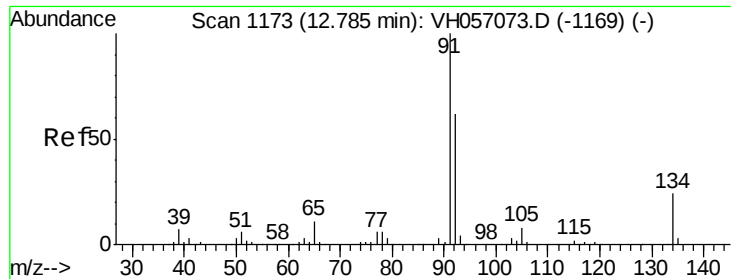
MMDadoda
 9/18/2015 3:41:08 PM



#88
 1,4-Dichlorobenzene
 Concen: 47.66 ug/l
 RT: 12.50 min Scan# 1146
 Delta R.T. 0.00 min
 Lab File: VH057073.D
 Acq: 17 Sep 2015 19:02

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.9	19.8	59.3
148	61.7	30.3	90.9





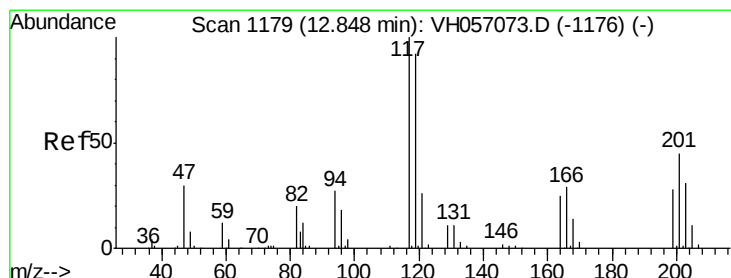
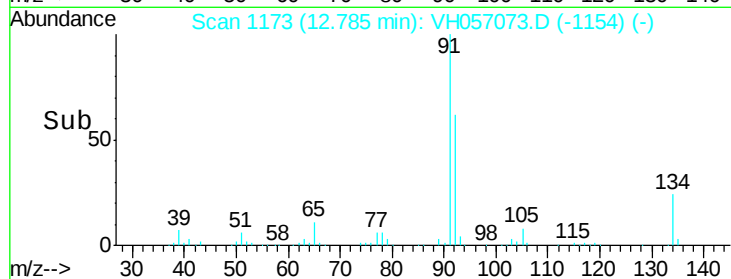
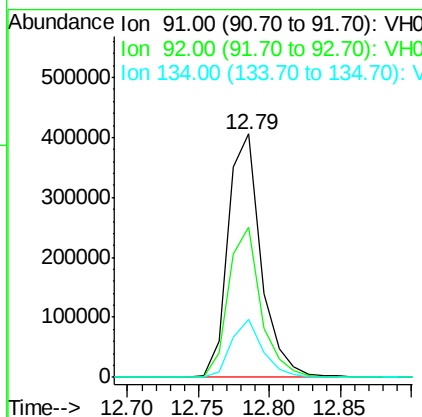
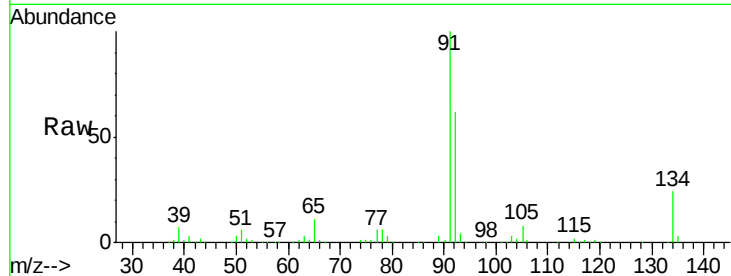
#89
n-Butylbenzene
Concen: 51.55 ug/l
RT: 12.79 min Scan# 1173
Delta R.T. 0.00 min
Lab File: VH057073.D
Acq: 17 Sep 2015 19:02

Instrument :
MSVOA_H
ClientSampleId :
VSTDICCC050

Tot Ion	Ratio	Lower	Upper
91	100		
92	61.7	31.3	93.9
134	23.9	10.5	31.6

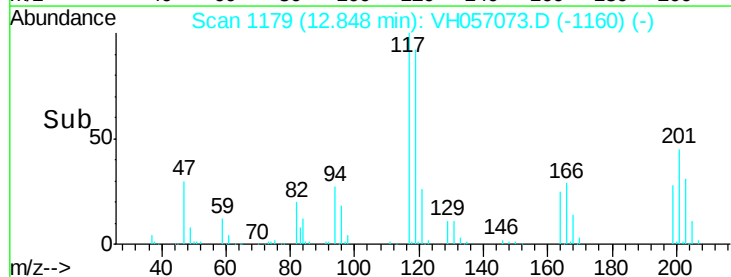
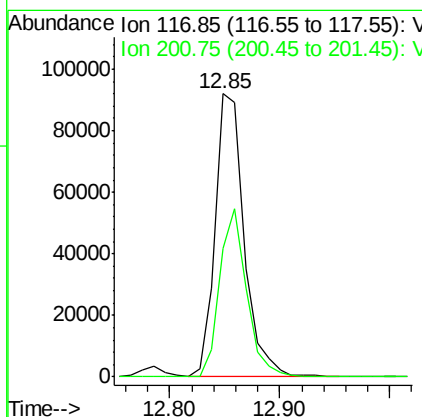
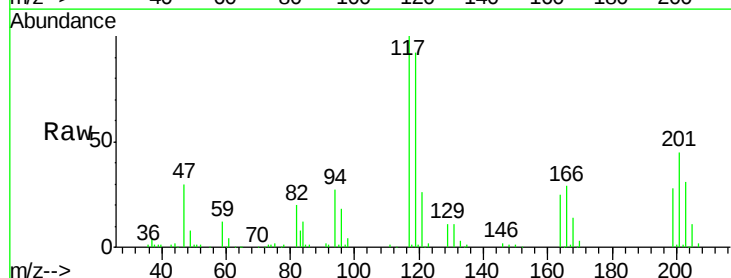
Manual Integrations
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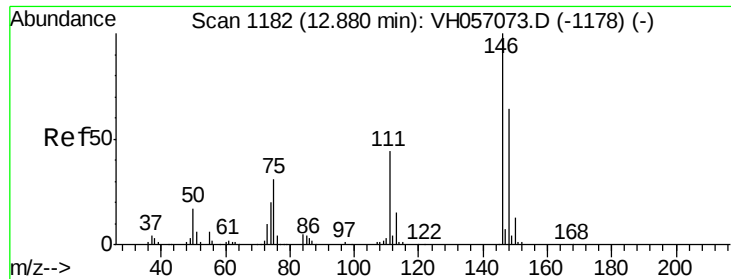
MMDadoda
9/18/2015 3:41:08 PM



#90
Hexachloroethane
Concen: 49.17 ug/l
RT: 12.85 min Scan# 1179
Delta R.T. 0.00 min
Lab File: VH057073.D
Acq: 17 Sep 2015 19:02

Tgt Ion	Ratio	Lower	Upper
117	100		
201	45.3	14.0	80.8





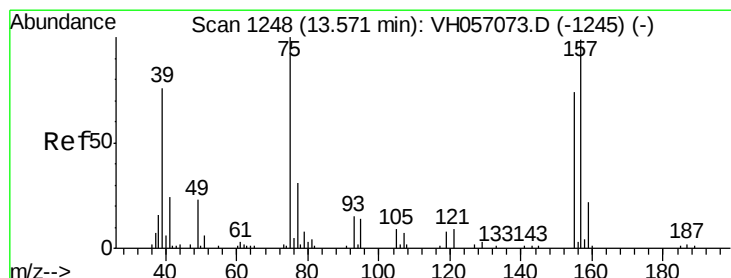
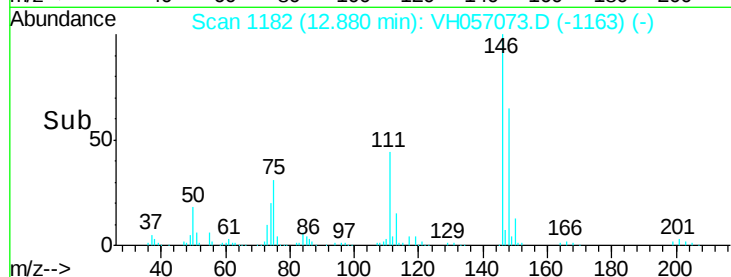
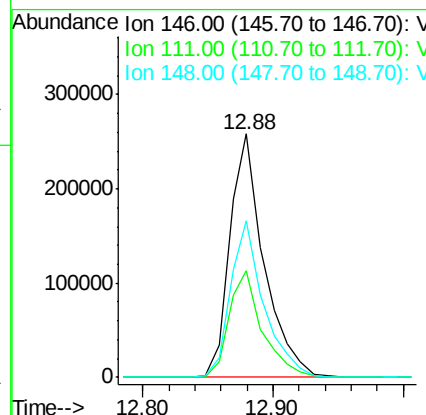
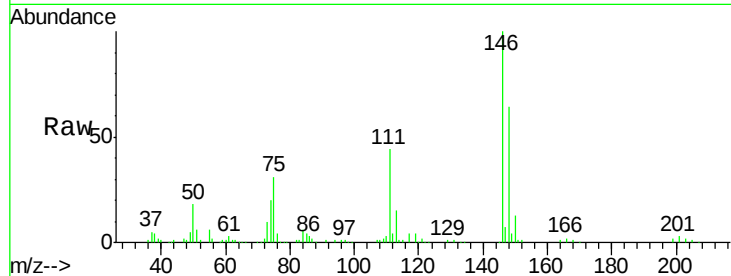
#91
 1,2-Dichlorobenzene
 Concen: 50.21 ug/l
 RT: 12.88 min Scan# 1182
 Delta R.T. 0.00 min
 Lab File: VH057073.D
 Acq: 17 Sep 2015 19:02

Instrument :
 MSVOA_H
 ClientSampleId :
 VSTDICCC050

Tot Ion	Ratio	Resp	Lower	Upper
146	100	468907		
111	44.0	22.1	66.1	
148	64.5	31.4	94.3	

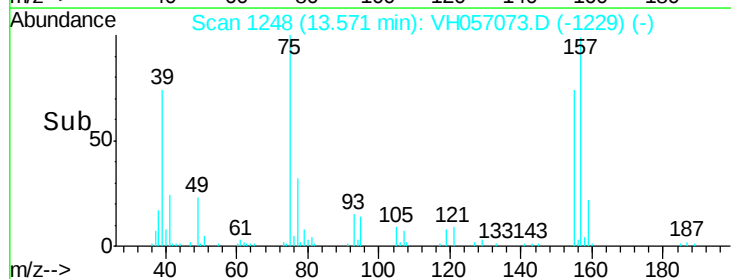
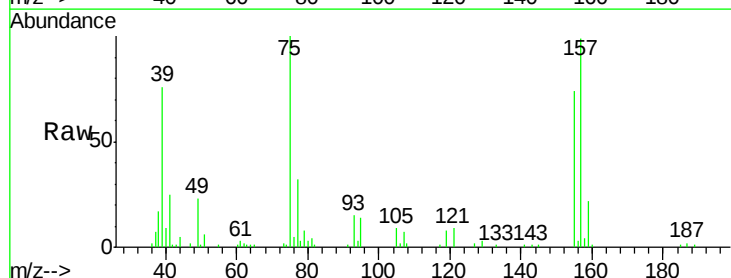
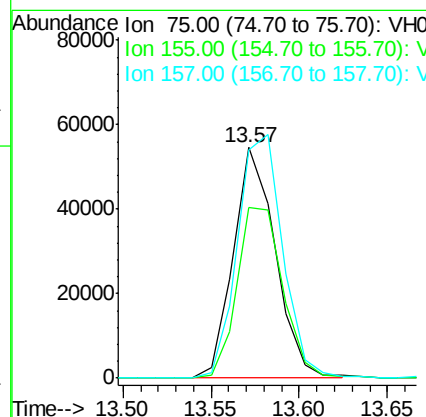
Manual Integrations
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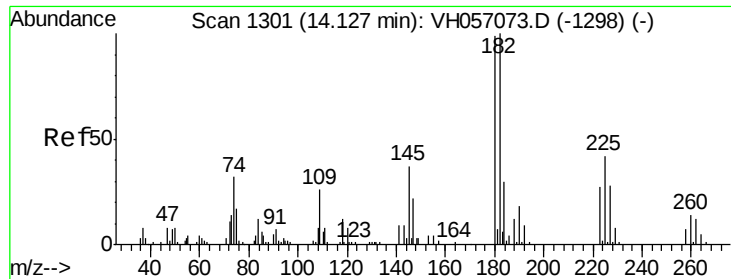
MMDadoda
 9/18/2015 3:41:08 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 51.00 ug/l
 RT: 13.57 min Scan# 1248
 Delta R.T. 0.00 min
 Lab File: VH057073.D
 Acq: 17 Sep 2015 19:02

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	90130		
155	73.8	43.4	130.2	
157	98.9	62.8	188.4	





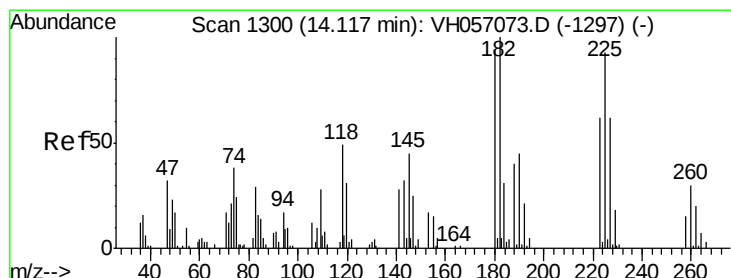
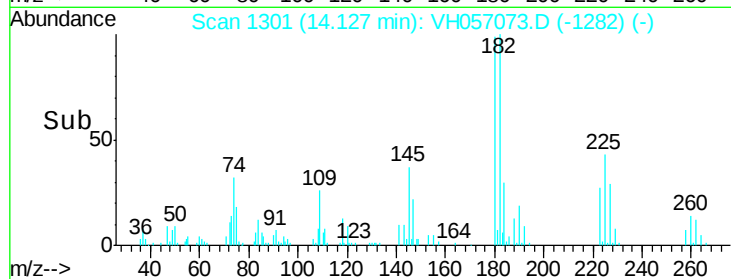
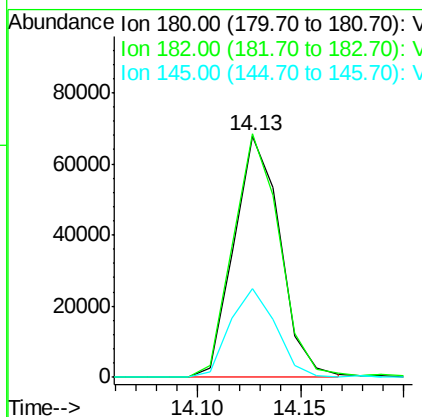
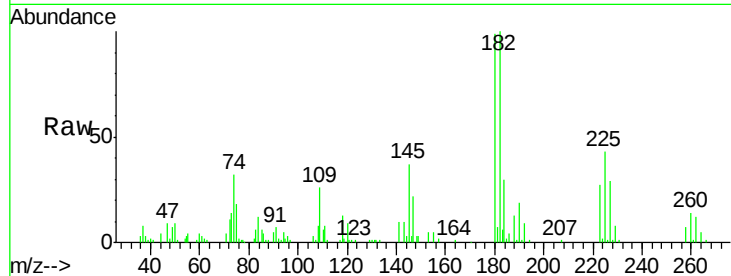
#93
 1,2,4-Trichlorobenzene
 Concen: 64.15 ug/l
 RT: 14.13 min Scan# 1301
 Delta R.T. 0.00 min
 Lab File: VH057073.D
 Acq: 17 Sep 2015 19:02

Instrument :
 MSVOA_H
 ClientSampleId :
 VSTDICCC050

Tot Ion	Ratio	Resp	Lower	Upper
180	100	107771		
182	100.8	43.0	129.2	
145	37.0	17.3	52.0	

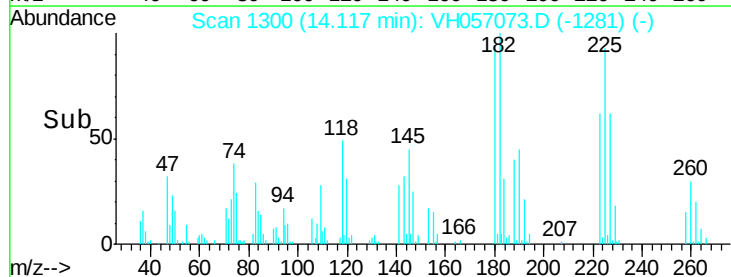
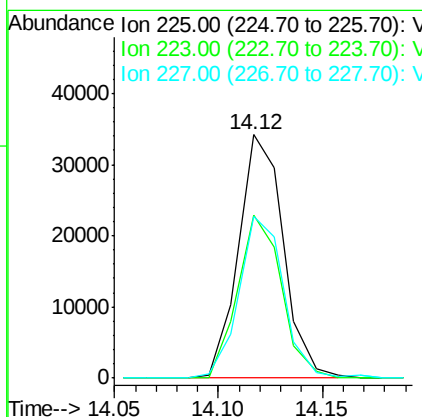
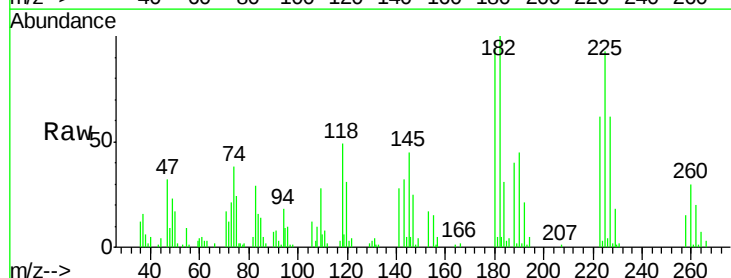
Manual Integrations
 APPROVED

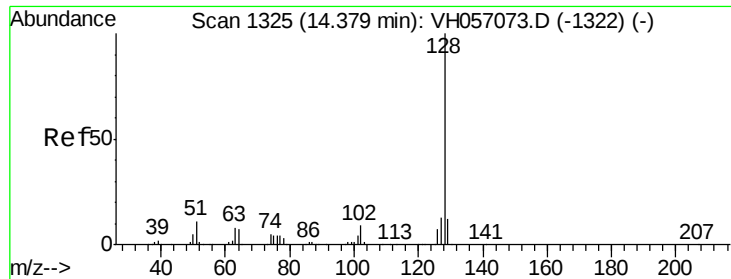
MMDadoda
 9/18/2015 3:41:08 PM



#94
 Hexachlorobutadiene
 Concen: 61.26 ug/l
 RT: 14.12 min Scan# 1300
 Delta R.T. 0.00 min
 Lab File: VH057073.D
 Acq: 17 Sep 2015 19:02

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	51873		
223	67.0	30.3	90.8	
227	66.3	30.5	91.5	





#95

Naphthalene

Concen: 55.03 ug/l

RT: 14.38 min Scan# 1325

Delta R.T. 0.00 min

Lab File: VH057073.D

Acq: 17 Sep 2015 19:02

Instrument :

MSVOA_H

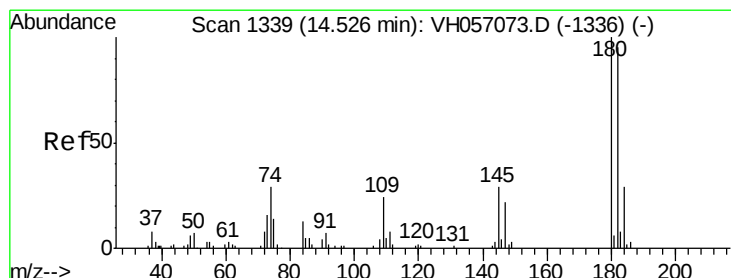
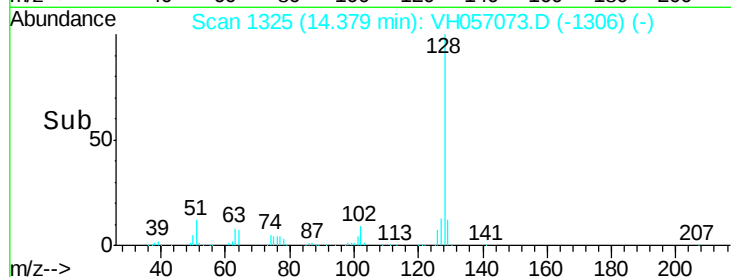
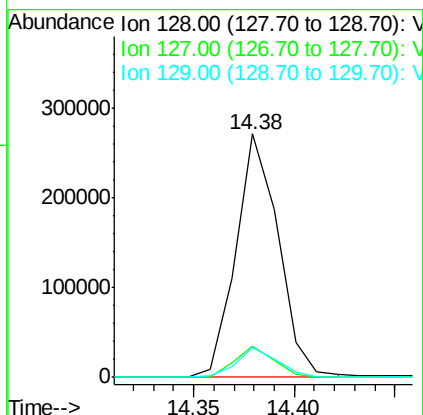
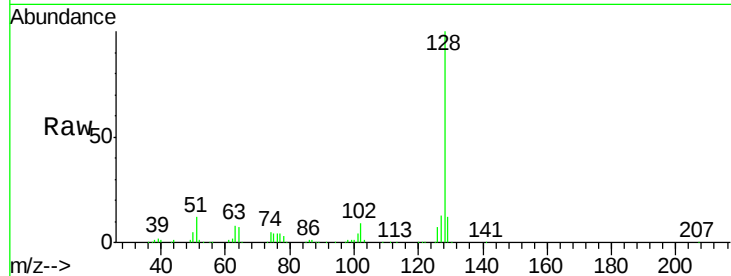
ClientSampleId :

VSTDICCC050

Tot Ion	Ratio	Resp	Lower	Upper
128	100	397642		
127	12.6		9.6	14.4
129	12.3		8.7	13.1

Manual Integrations
APPROVED

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9/18/2015 3:41:08 PM



#96

1,2,3-Trichlorobenzene

Concen: 63.08 ug/l

RT: 14.53 min Scan# 1339

Delta R.T. 0.00 min

Lab File: VH057073.D

Acq: 17 Sep 2015 19:02

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	67239		
182	95.2		47.1	141.3
145	28.6		12.5	37.5

