

Data Path : W:\HPCHEM1\MSVOA H\DATA\XH091715\
 Data File : VH057074.D
 Acq On : 17 Sep 2015 19:56
 Operator : SY/FY
 Sample : VSTDICC100
 Misc : 5mL/MSVOA H/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_H
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

MMDadoda
 9/18/2015 3:41:13 PM

Quant Time: Sep 18 09:43:56 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	4.84	168	786553	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.57	114	1451475	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.72	117	1101522	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.49	152	327520	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.81	65	1356784	109.27	ug/l	0.00
Spiked Amount	50.000	Range	66 - 150	Recovery	=	218.54%#
35) Dibromofluoromethane	4.09	113	1086417	103.41	ug/l	0.00
Spiked Amount	50.000	Range	76 - 130	Recovery	=	206.82%#
48) Toluene-d8	7.52	98	3146720	112.83	ug/l	0.00
Spiked Amount	50.000	Range	78 - 121	Recovery	=	225.66%#
62) 4-Bromofluorobenzene	11.36	95	1034194	101.73	ug/l	0.00
Spiked Amount	50.000	Range	70 - 131	Recovery	=	203.46%#

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.93	85	1004687	101.12	ug/l	99
3) Chloromethane	1.02	50	1227766	88.49	ug/l	100
4) Vinyl Chloride	1.08	62	961839	84.25	ug/l	100
5) Bromomethane	1.27	94	419049	74.36	ug/l	98
6) Chloroethane	1.35	64	395666	69.03	ug/l	98
7) Trichlorofluoromethane	1.40	101	1009455m	119.09	ug/l	
8) Tert butyl alcohol	2.55	59	1147038	438.80	ug/l	# 96
9) Diethyl Ether	1.61	74	430523	76.33	ug/l	78
10) Diisopropyl ether	2.78	45	3346259	81.82	ug/l	98
11) 1,1-Dichloroethene	1.76	96	659056	82.37	ug/l	98
12) Methyl Iodide	1.86	142	1178879	89.09	ug/l	99
13) Acrolein	1.97	56	648962	380.55	ug/l	93
14) 1,1,2-Trichlorotrifluoroet	1.79	101	677144	88.37	ug/l	97
15) Acrylonitrile	2.91	53	2226245	381.49	ug/l	93
16) Allyl Chloride	2.07	41	1415706	77.06	ug/l	92
17) Acetone	2.21	43	2674776	416.76	ug/l	96
18) Carbon Disulfide	1.77	76	1930823	78.56	ug/l	95
19) Methyl Acetate	2.32	43	3403273	74.33	ug/l	99
20) Methyl tert-butyl Ether	2.41	73	2803741	89.88	ug/l	97
21) Methylene Chloride	2.15	84	736601m	80.82	ug/l	
22) trans-1,2-Dichloroethene	2.29	96	783211	88.76	ug/l	98
23) Vinyl Acetate	3.16	43	7654862	427.29	ug/l	96
24) 1,1-Dichloroethane	2.84	63	1658260	86.47	ug/l	100
25) 2-Butanone	4.30	43	6102024	430.74	ug/l	100
26) 2,2-Dichloropropane	3.57	77	976106	92.64	ug/l	96
27) cis-1,2-Dichloroethene	3.45	96	1127736	101.40	ug/l	99
28) Bromochloromethane	3.69	128	387141	93.28	ug/l	83
29) Chloroform	3.83	83	1987678	98.88	ug/l	94
30) Cyclohexane	3.67	56	1342104	91.66	ug/l	96
31) Tetrahydrofuran	4.05	42	3512718	426.71	ug/l	95
32) 1,1,1-Trichloroethane	4.07	97	1464317	104.91	ug/l	97
36) 1,1-Dichloropropene	4.26	75	1587378	106.65	ug/l	99
37) Ethyl acetate	4.09	43	2898695	93.12	ug/l	# 55
38) Carbon Tetrachloride	3.97	117	1251742	106.70	ug/l	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Benzene	4.61	78	3727938	99.69	ug/l	98
40) Methacrylonitrile	4.72	41	1340741	92.82	ug/l	96
41) 1,2-Dichloroethane	4.91	62	1666262	103.95	ug/l	99
42) Isopropyl Acetate	5.45	43	3752488	93.24	ug/l	97
43) Trichloroethene	5.48	130	998318	107.34	ug/l	98
44) Methylcyclohexane	5.43	83	922278	100.11	ug/l	96
45) 1,2-Dichloropropane	6.20	63	1191032	99.02	ug/l	99
46) Dibromomethane	6.05	93	784052	103.73	ug/l	98
47) Bromodichloromethane	6.35	83	1631313	105.71	ug/l	97
49) 4-Methyl-2-Pentanone	8.22	43	10919717	442.61	ug/l	95
50) Toluene	7.58	92	2444106	102.22	ug/l	100
51) t-1,3-Dichloropropene	8.24	75	1969293	110.84	ug/l	100
52) Methyl Methacrylate	6.69	69	1249278	103.01	ug/l	99
53) 1,4-Dioxane	6.67	88	254721	2139.72	ug/l	90
54) cis-1,3-Dichloropropene	7.26	75	1957134	100.97	ug/l	98
55) 1,1,2-Trichloroethane	8.45	97	1056389	108.50	ug/l	97
56) Ethyl Methacrylate	8.57	69	2180326	107.97	ug/l	98
57) 1,3-Dichloropropane	8.80	76	2154492	105.50	ug/l	99
58) 2-Chloroethyl Vinyl ether	7.26	63	3958601	228.33	ug/l	94
59) 2-Hexanone	9.44	43	8871201	493.15	ug/l	98
60) Dibromochloromethane	8.67	129	1240567	112.26	ug/l	97
61) 1,2-Dibromoethane	8.93	107	1293076	113.40	ug/l	95
64) Tetrachloroethene	8.11	164	671335	108.18	ug/l	98
65) Chlorobenzene	9.75	112	2510084	109.15	ug/l	100
66) 1,1,1,2-Tetrachloroethane	9.87	131	863288	106.90	ug/l	98
67) Ethyl Benzene	9.84	106	1247413	108.20	ug/l	96
68) m/p-Xylenes	10.07	106	2896740	209.16	ug/l	94
69) o-Xylene	10.66	106	1456314	108.95	ug/l	97
70) Styrene	10.73	104	2484130	110.29	ug/l	99
71) Bromoform	10.71	173	826766	125.07	ug/l	99
73) Isopropylbenzene	11.07	105	2997341	97.38	ug/l	98
74) n-Amyl Acetate	11.33	43	3278667	97.95	ug/l	91
75) 1,1,2,2-Tetrachloroethane	11.64	83	1619214	101.76	ug/l	98
76) 1,2,3-Trichloropropane	11.74	75	1252814	101.14	ug/l	94
77) Bromobenzene	11.44	156	909321	109.56	ug/l	97
78) n-propylbenzene	11.54	91	3110347	96.08	ug/l	97
79) 2-Chlorotoluene	11.67	91	1854684	94.57	ug/l	99
80) 1,3,5-Trimethylbenzene	11.77	105	1918897	100.78	ug/l	99
81) trans-1,4-Dichloro-2-Buten	11.81	75	986472	104.29	ug/l	98
82) 4-Chlorotoluene	11.85	91	2305091	98.37	ug/l	99
83) tert-Butylbenzene	12.07	119	1680261	93.81	ug/l	98
84) 1,2,4-Trimethylbenzene	12.14	105	1957571	101.74	ug/l	97
85) sec-Butylbenzene	12.25	105	1884697	98.91	ug/l	98
86) p-Isopropyltoluene	12.40	119	1481721	101.40	ug/l	97
87) 1,3-Dichlorobenzene	12.42	146	1036112	104.57	ug/l	97
88) 1,4-Dichlorobenzene	12.50	146	1093458	104.84	ug/l	99
89) n-Butylbenzene	12.78	91	1222192	106.73	ug/l	96
90) Hexachloroethane	12.85	117	271832	87.38	ug/l	98
91) 1,2-Dichlorobenzene	12.88	146	958566	112.49	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.57	75	193668	120.10	ug/l	88

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.13	180	217093	141.64	ug/l	87
94) Hexachlorobutadiene	14.12	225	99840	129.22	ug/l	91
95) Naphthalene	14.38	128	903592	137.05	ug/l	98
96) 1,2,3-Trichlorobenzene	14.52	180	154138	158.49	ug/l	89

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

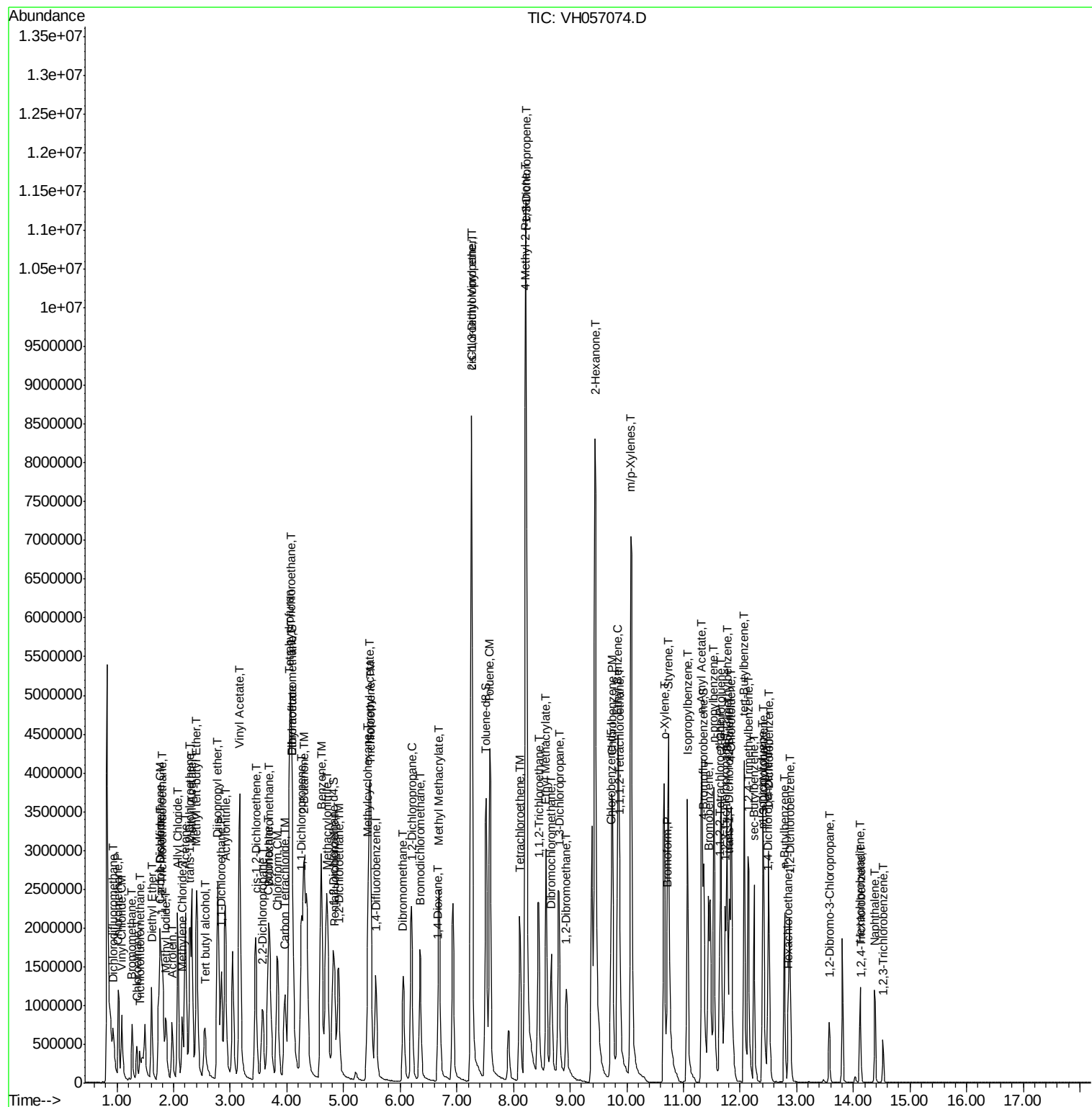
Data Path : W:\HPCHEM1\MSVOA H\DATA\XH091715\
 Data File : VH057074.D
 Acd On : 17 Sep 2015 19:56
 Operator : SY/FY
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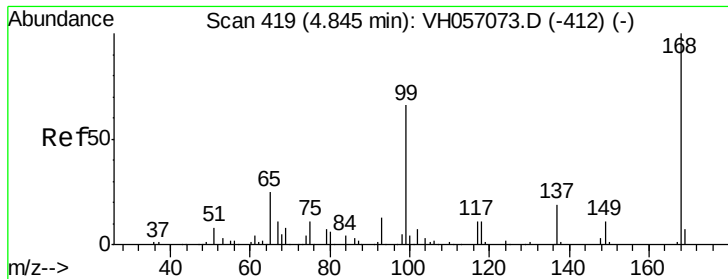
Instrument :
 MSVOA_H
 ClientSampleID :
 VSTDIC100

Manual Integrations
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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.84 min Scan# 419

Delta R.T. -0.00 min

Lab File: VH057074.D

Acq: 17 Sep 2015 19:56

Instrument :

MSVOA_H

ClientSampleId :

VSTDIC100

Tot Ion:168 Resp: 786553

Ion Ratio Lower Upper

168 100

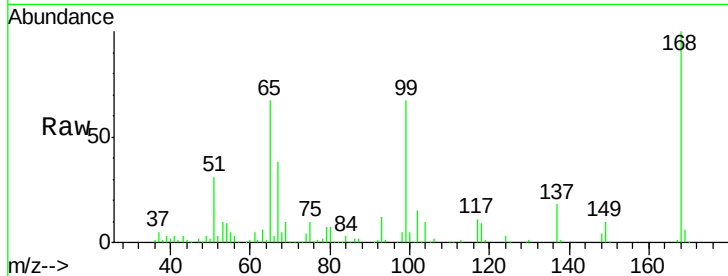
99 67.3 55.8 83.6

Manual Integrations

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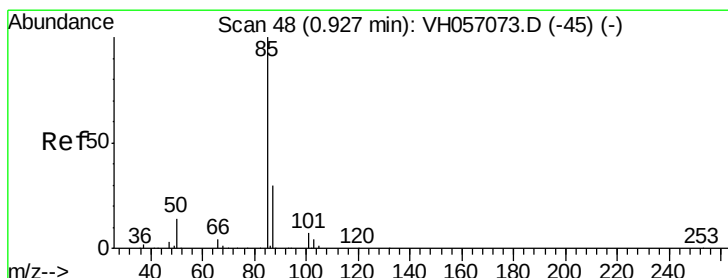
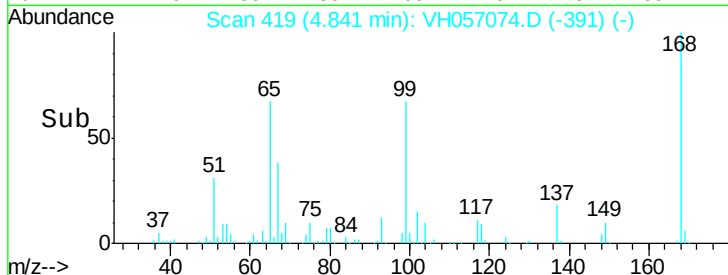
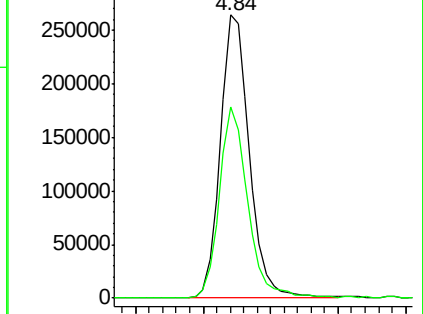
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Abundance Ion 168.00 (167.70 to 168.70): V

Ion 99.00 (98.70 to 99.70): VHC



#2

Dichlorodifluoromethane

Concen: 101.12 ug/l

RT: 0.93 min Scan# 48

Delta R.T. 0.00 min

Lab File: VH057074.D

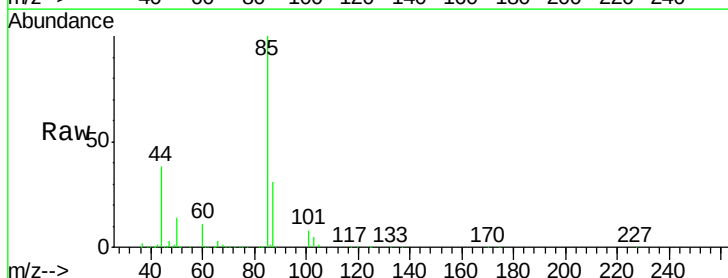
Acq: 17 Sep 2015 19:56

Tgt Ion: 85 Resp: 1004687

Ion Ratio Lower Upper

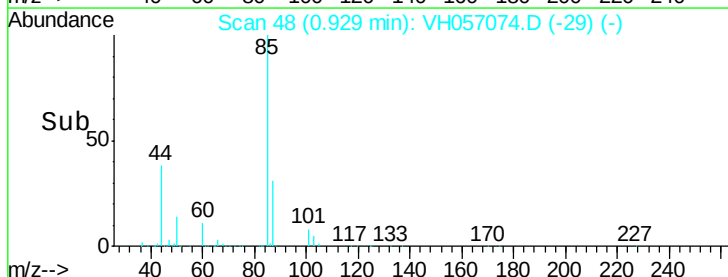
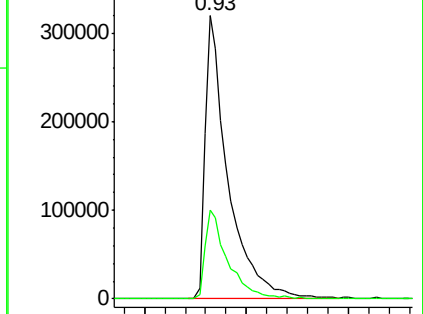
85 100

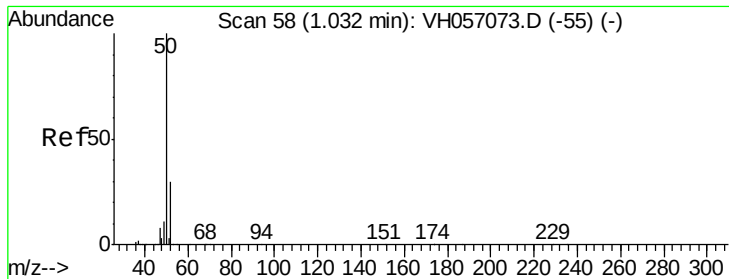
87 31.4 16.0 47.9



Abundance Ion 85.00 (84.70 to 85.70): VHC

Ion 87.00 (86.70 to 87.70): VHC





#3

Chloromethane

Concen: 88.49 ug/l

RT: 1.02 min Scan# 57

Delta R.T. -0.01 min

Lab File: VH057074.D

Acq: 17 Sep 2015 19:56

Instrument :

MSVOA_H

ClientSampleId :

VSTDIC100

Tot Ion: 50 Resp: 1227766

Ion Ratio Lower Upper

50 100

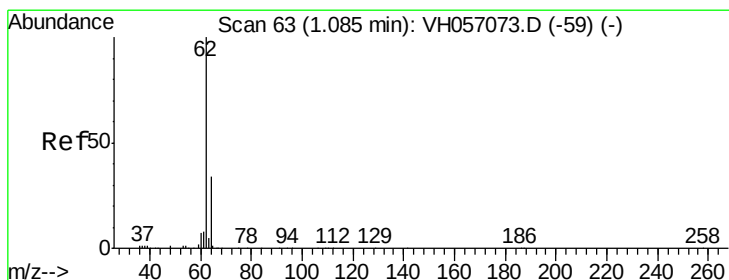
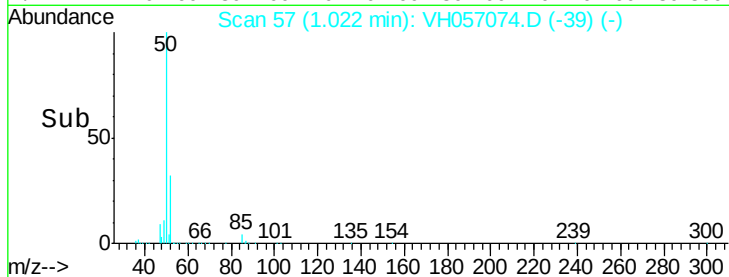
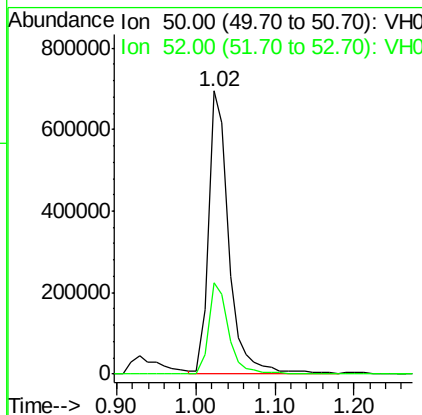
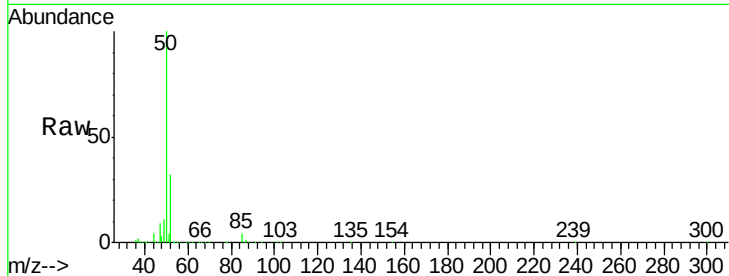
52 32.4 25.8 38.8

Manual Integrations

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#4

Vinyl Chloride

Concen: 84.25 ug/l

RT: 1.08 min Scan# 63

Delta R.T. -0.00 min

Lab File: VH057074.D

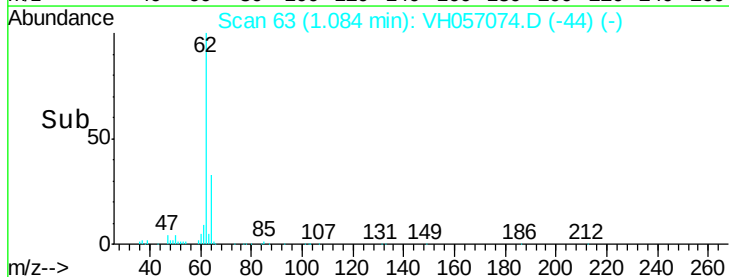
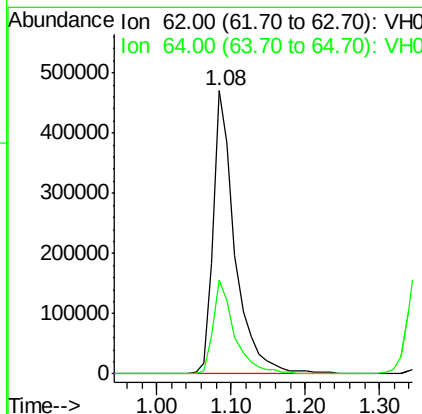
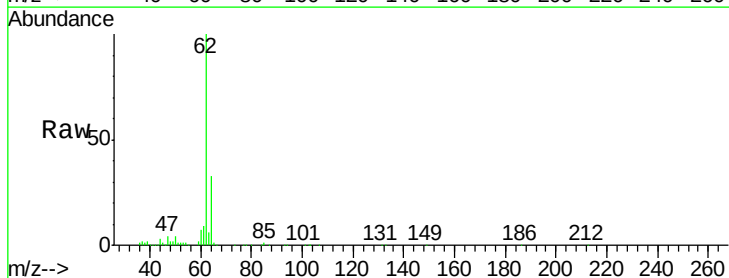
Acq: 17 Sep 2015 19:56

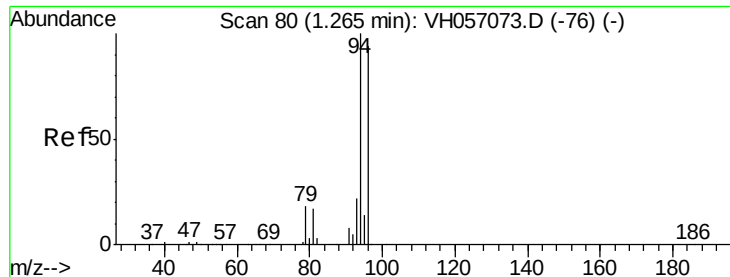
Tgt Ion: 62 Resp: 961839

Ion Ratio Lower Upper

62 100

64 33.2 26.6 40.0





#5

Bromomethane

Concen: 74.36 ug/l

RT: 1.27 min Scan# 80

Delta R.T. 0.00 min

Lab File: VH057074.D

Acq: 17 Sep 2015 19:56

Instrument :

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ClientSampleId :

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Tot Ion: 94 Resp: 419049

Ion Ratio Lower Upper

94 100

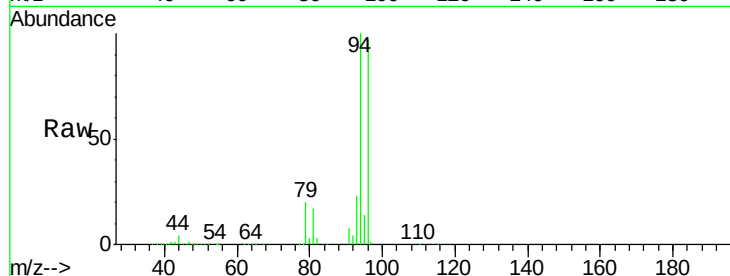
96 96.5 78.5 117.7

Manual Integrations

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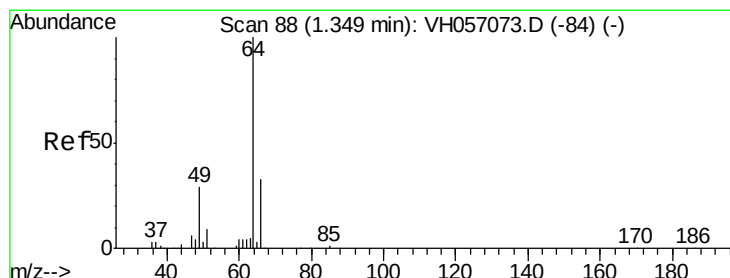
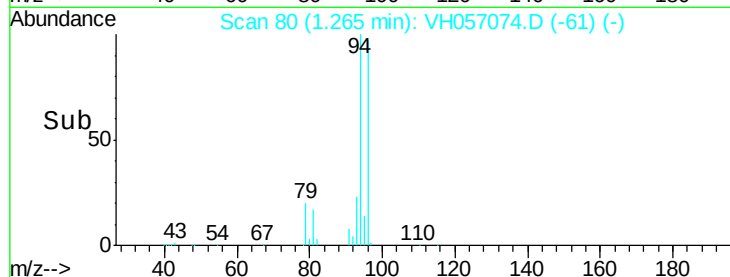
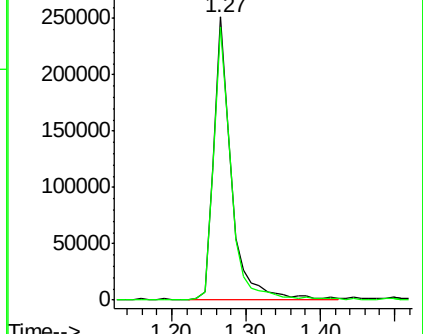
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Abundance Ion 94.00 (93.70 to 94.70): VH0

Ion 96.00 (95.70 to 96.70): VH0



#6

Chloroethane

Concen: 69.03 ug/l

RT: 1.35 min Scan# 88

Delta R.T. 0.00 min

Lab File: VH057074.D

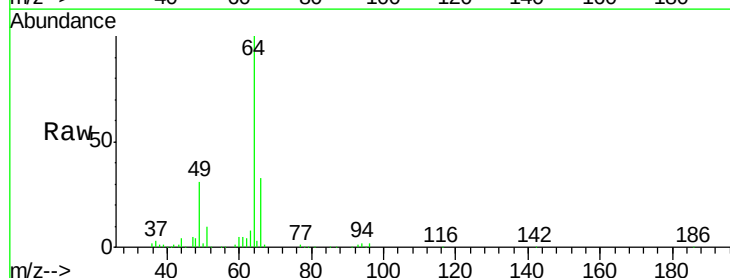
Acq: 17 Sep 2015 19:56

Tgt Ion: 64 Resp: 395666

Ion Ratio Lower Upper

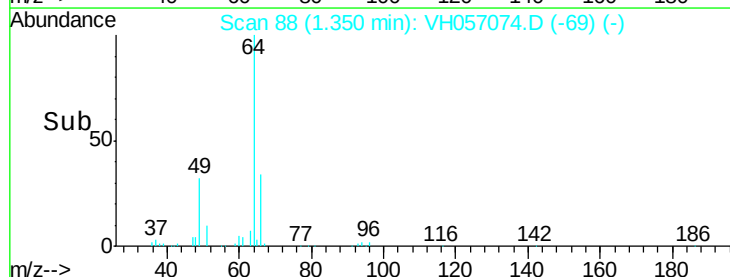
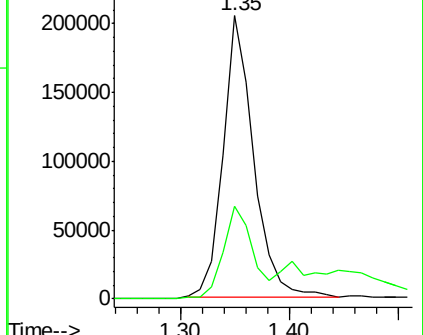
64 100

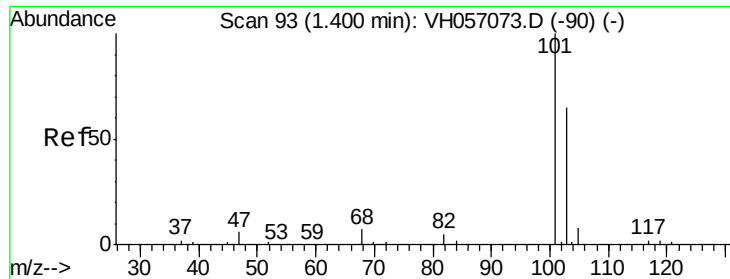
66 32.5 25.2 37.8



Abundance Ion 64.00 (63.70 to 64.70): VH0

Ion 66.00 (65.70 to 66.70): VH0





#7

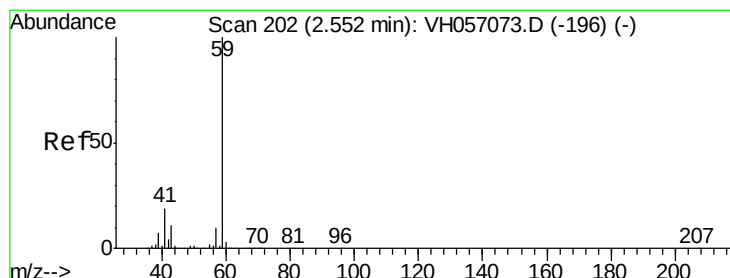
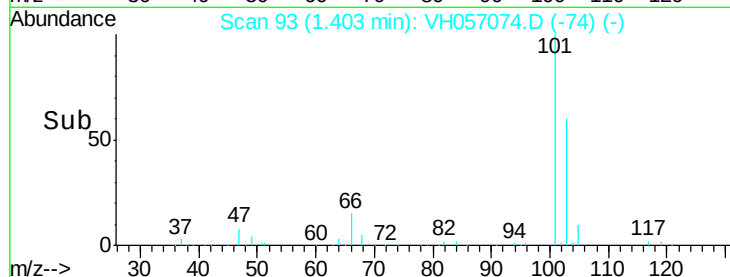
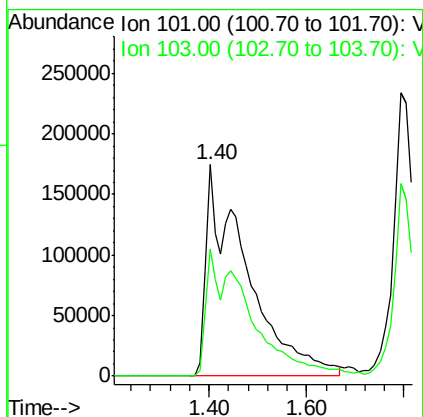
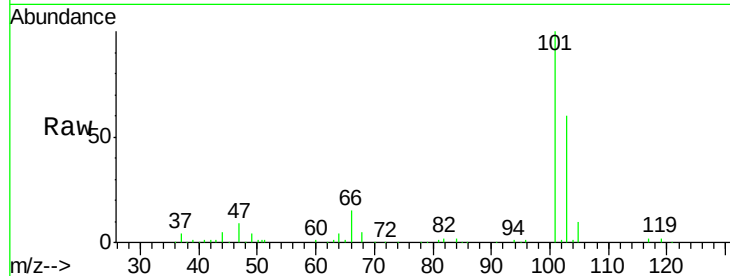
Trichlorofluoromethane
Concen: 119.09 ug/l m
RT: 1.40 min Scan# 93
Delta R.T. 0.00 min
Lab File: VH057074.D
Acq: 17 Sep 2015 19:56

Instrument :
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Tot Ion:101 Resp: 1009455
Ion Ratio Lower Upper
101 100
103 60.1 54.9 82.3

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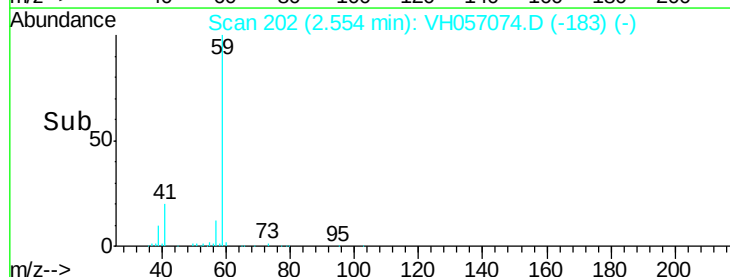
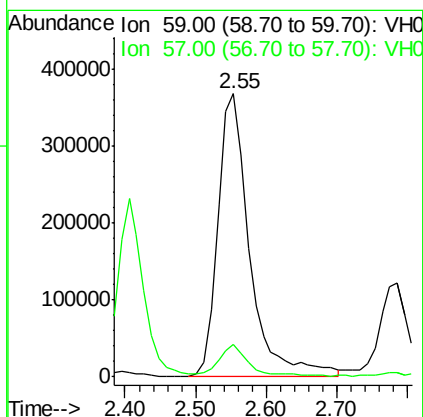
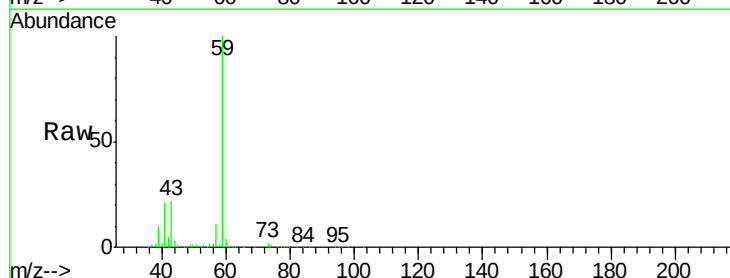
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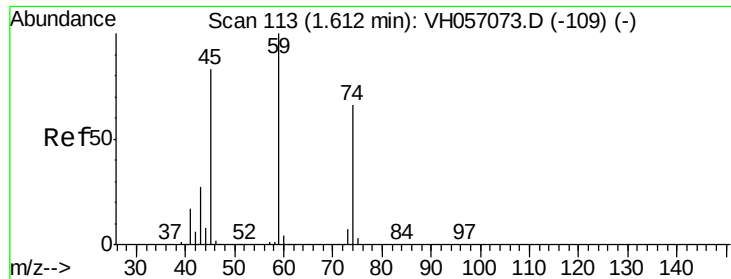


#8

Tert butyl alcohol
Concen: 438.80 ug/l
RT: 2.55 min Scan# 202
Delta R.T. 0.00 min
Lab File: VH057074.D
Acq: 17 Sep 2015 19:56

Tgt Ion: 59 Resp: 1147038
Ion Ratio Lower Upper
59 100
57 11.4 9.0 11.0#





#9

Diethyl Ether

Concen: 76.33 ug/l

RT: 1.61 min Scan# 113

Delta R.T. 0.00 min

Lab File: VH057074.D

Acq: 17 Sep 2015 19:56

Instrument :

MSVOA_H

ClientSampleId :

VSTDIC100

Tot Ion: 74 Resp: 430523

Ion Ratio Lower Upper

74 100

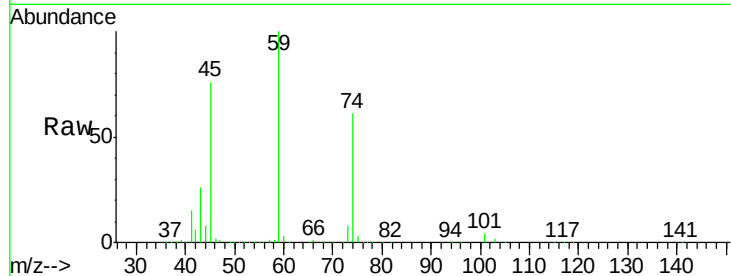
45 124.2 0.0 304.4

Manual Integrations

APPROVED

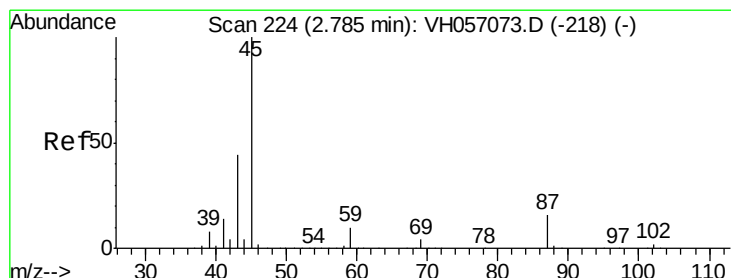
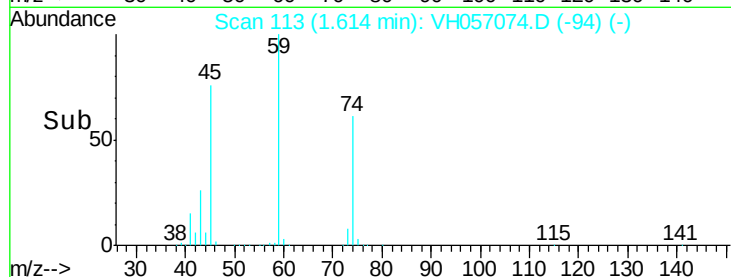
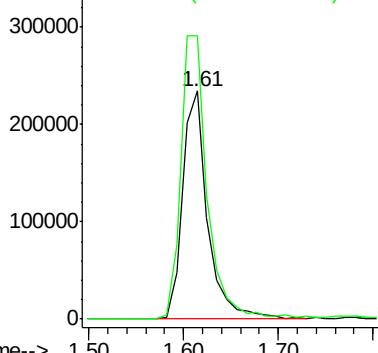
MMDadoda

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Abundance Ion 74.00 (73.70 to 74.70): VH0

Ion 45.00 (44.70 to 45.70): VH0



#10

Diisopropyl ether

Concen: 81.82 ug/l

RT: 2.78 min Scan# 223

Delta R.T. -0.01 min

Lab File: VH057074.D

Acq: 17 Sep 2015 19:56

Tgt Ion: 45 Resp: 3346259

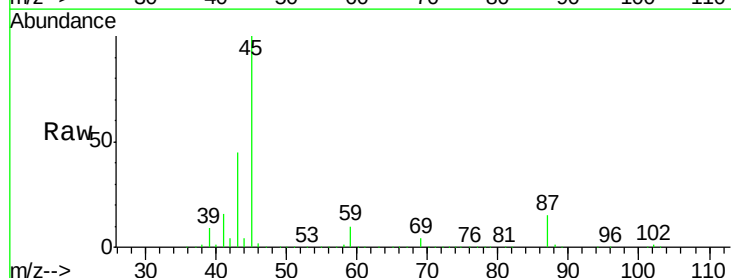
Ion Ratio Lower Upper

45 100

43 45.0 34.6 52.0

87 15.2 12.6 19.0

59 9.9 8.4 12.6

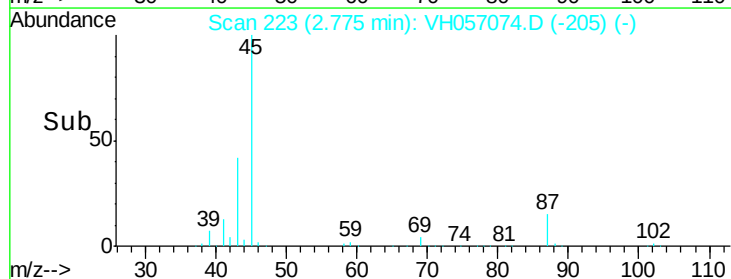
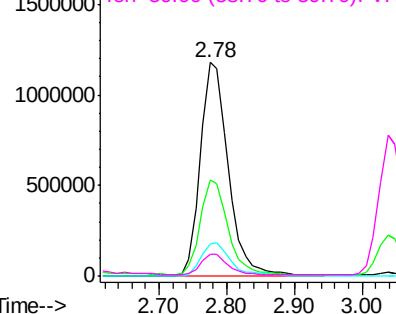


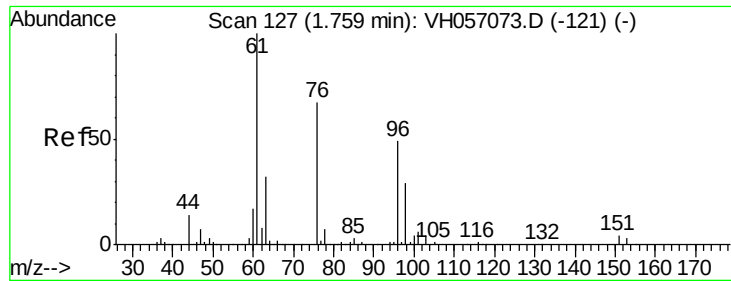
Abundance Ion 45.00 (44.70 to 45.70): VH0

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





#11

1,1-Dichloroethene

Concen: 82.37 ug/l

RT: 1.76 min Scan# 127

Delta R.T. 0.00 min

Lab File: VH057074.D

Acq: 17 Sep 2015 19:56

Instrument :

MSVOA_H

ClientSampleId :

VSTDIC100

Tot Ion: 96 Resp: 659056

Ion Ratio Lower Upper

96 100

61 202.3 158.4 237.6

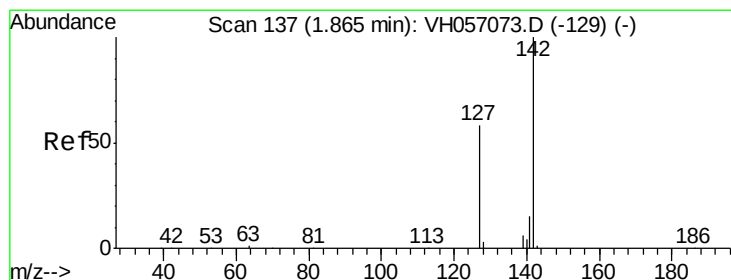
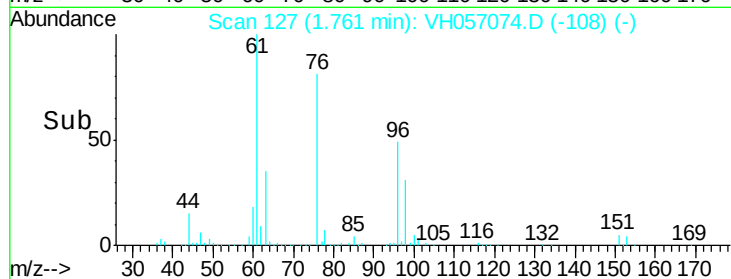
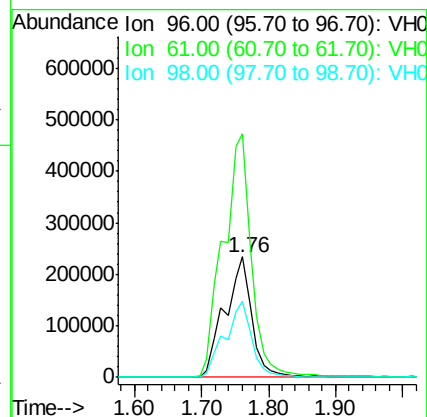
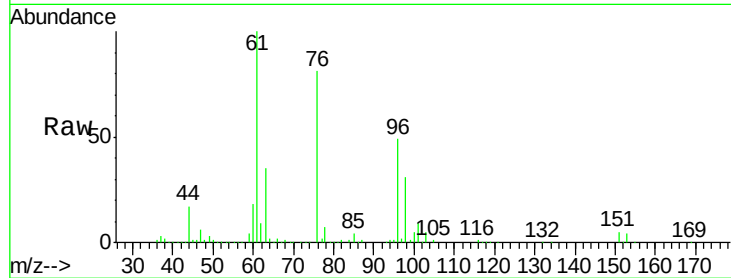
98 62.9 50.6 75.8

Manual Integrations

APPROVED

MMDadoda

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#12

Methyl Iodide

Concen: 89.09 ug/l

RT: 1.86 min Scan# 136

Delta R.T. -0.01 min

Lab File: VH057074.D

Acq: 17 Sep 2015 19:56

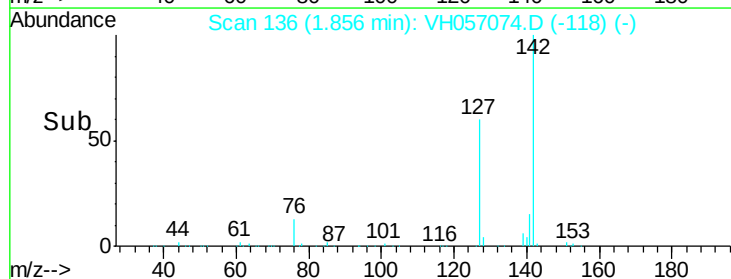
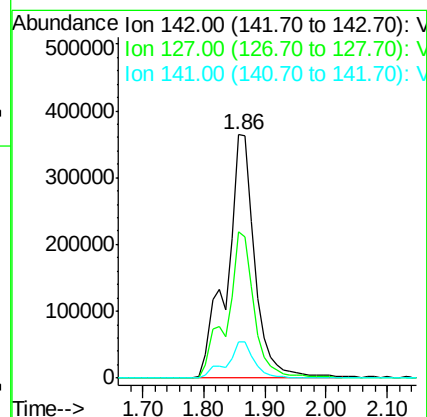
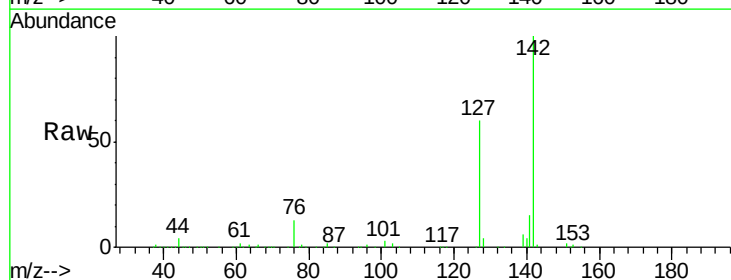
Tgt Ion: 142 Resp: 1178879

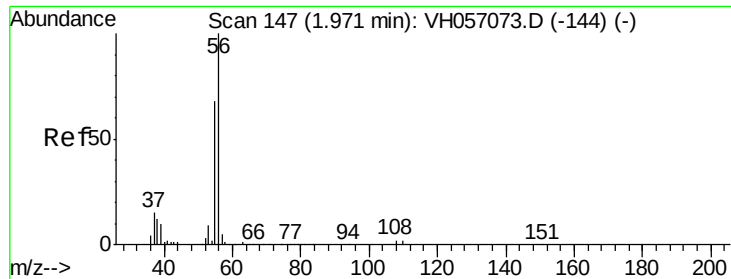
Ion Ratio Lower Upper

142 100

127 59.9 30.0 90.1

141 15.1 7.1 21.4





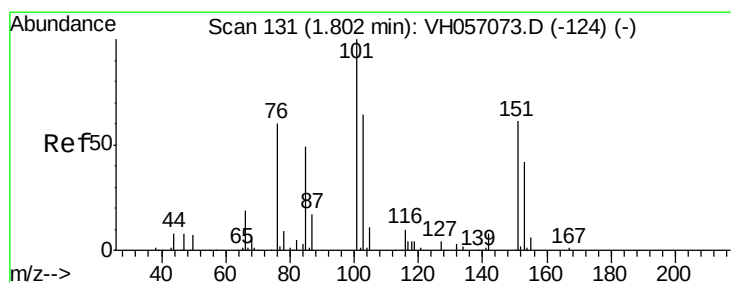
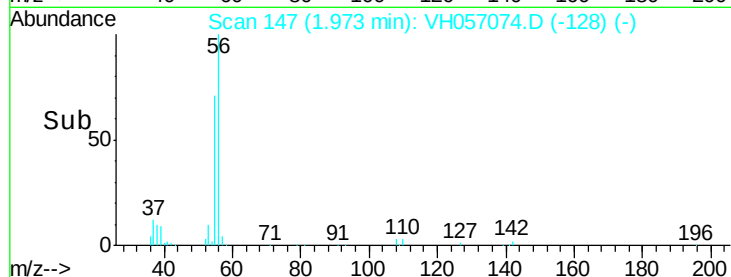
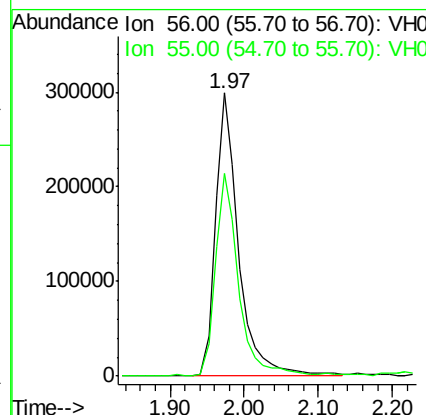
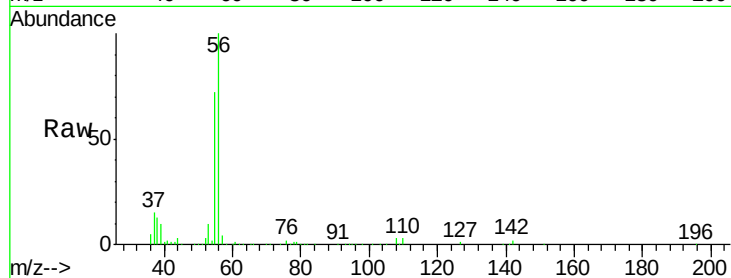
#13
Acrolein
Concen: 380.55 ug/l
RT: 1.97 min Scan# 147
Delta R.T. 0.00 min
Lab File: VH057074.D
Acq: 17 Sep 2015 19:56

Instrument :
MSVOA_H
ClientSampleId :
VSTDIC100

Tot Ion	56	Resp	648962
Ion Ratio	100	Lower	Upper
55	71.7	52.9	79.3

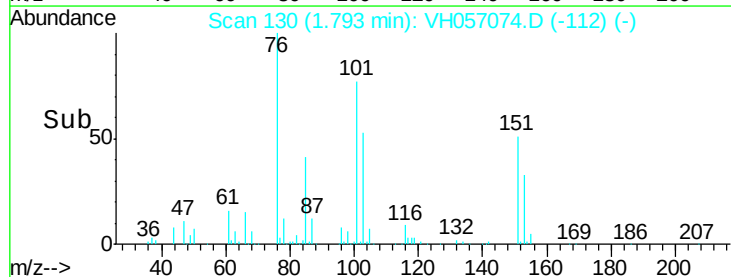
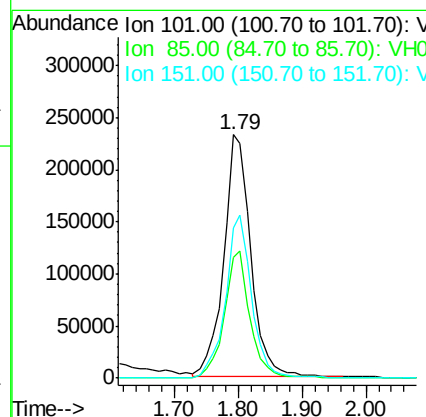
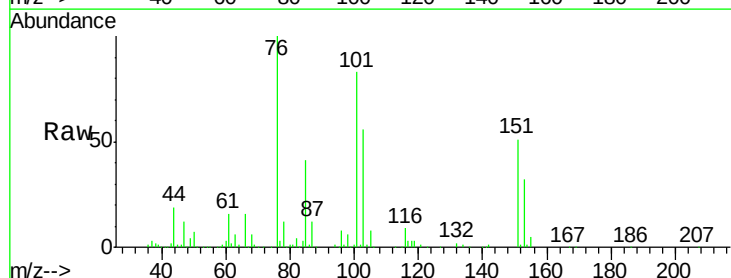
Manual Integrations
APPROVED

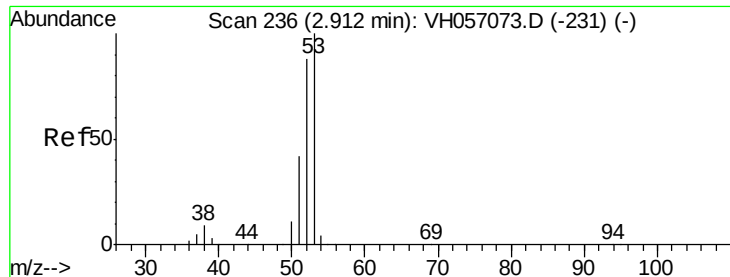
MMDadoda
9/18/2015 3:41:13 PM



#14
1,1,2-Trichlorotrifluoroethane
Concen: 88.37 ug/l
RT: 1.79 min Scan# 130
Delta R.T. -0.01 min
Lab File: VH057074.D
Acq: 17 Sep 2015 19:56

Tgt Ion	101	Resp	677144
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
85	49.8	37.9	56.9
151	61.7	50.6	76.0





#15

Acrylonitrile

Concen: 381.49 ug/l

RT: 2.91 min Scan# 236

Delta R.T. 0.00 min

Lab File: VH057074.D

Acq: 17 Sep 2015 19:56

Instrument :

MSVOA_H

ClientSampleId :

VSTDIC100

Tot Ion: 53 Resp: 2226245

Ion Ratio Lower Upper

53 100

52 91.7 67.6 101.4

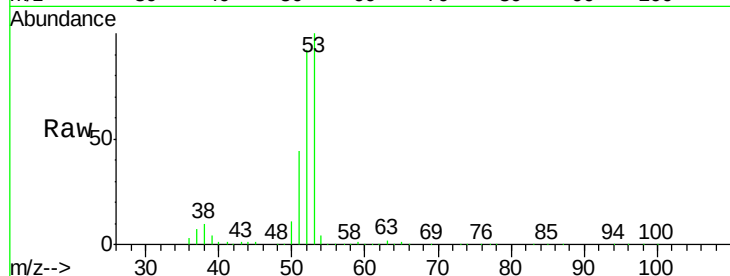
51 43.7 31.8 47.6

Manual Integrations

APPROVED

MMDadoda

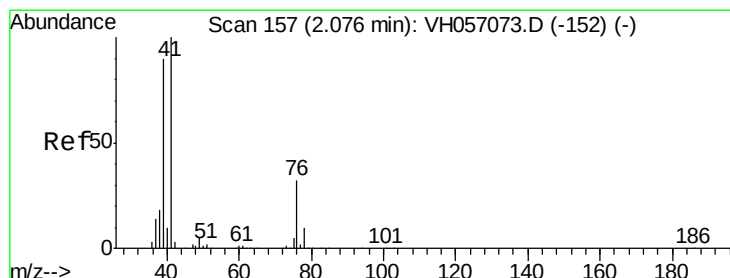
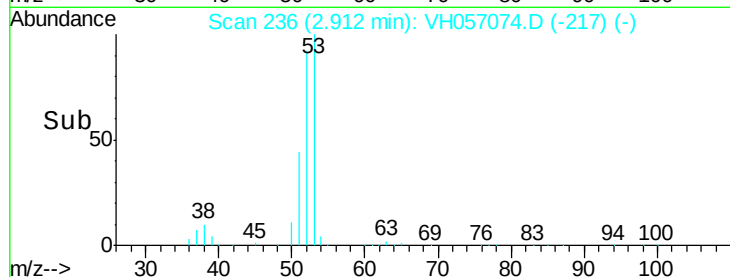
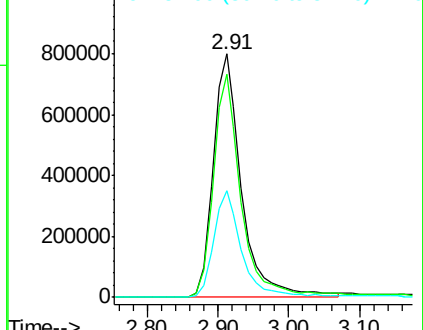
9/18/2015 3:41:13 PM



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: 77.06 ug/l

RT: 2.07 min Scan# 156

Delta R.T. -0.01 min

Lab File: VH057074.D

Acq: 17 Sep 2015 19:56

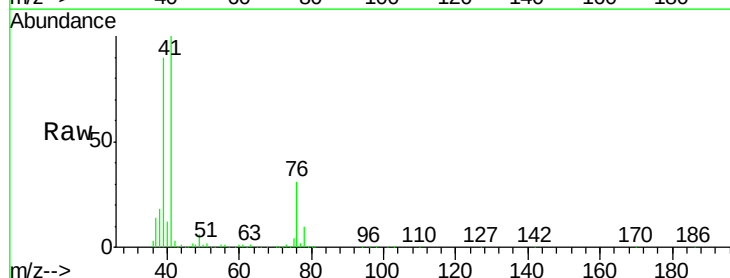
Tgt Ion: 41 Resp: 1415706

Ion Ratio Lower Upper

41 100

39 90.5 41.0 123.2

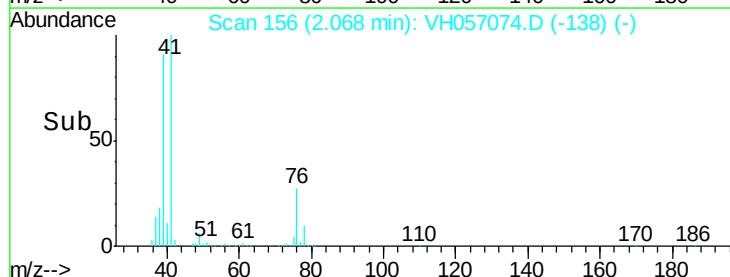
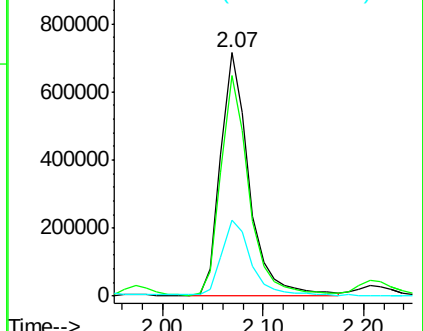
76 31.5 14.3 42.9

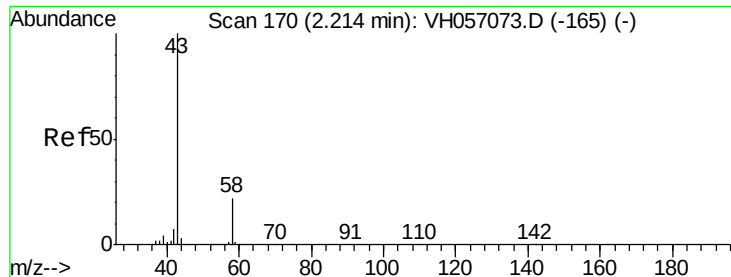


Abundance Ion 41.00 (40.70 to 41.70): VH0

Ion 39.00 (38.70 to 39.70): VH0

Ion 76.00 (75.70 to 76.70): VH0





#17

Acetone

Concen: 416.76 ug/l

RT: 2.21 min Scan# 169

Delta R.T. -0.01 min

Lab File: VH057074.D

Acq: 17 Sep 2015 19:56

Instrument :

MSVOA_H

ClientSampleId :

VSTDIC100

Tot Ion: 43 Resp: 2674776

Ion Ratio Lower Upper

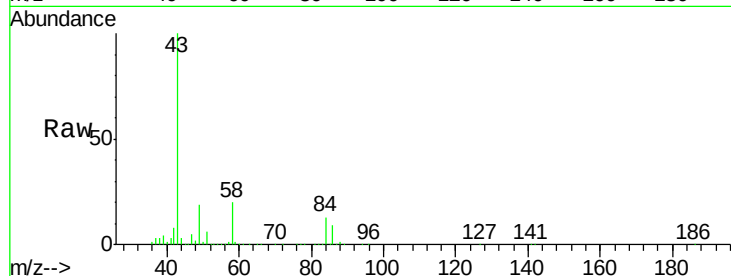
43 100

58 20.1 17.7 26.5

Manual Integrations
APPROVED

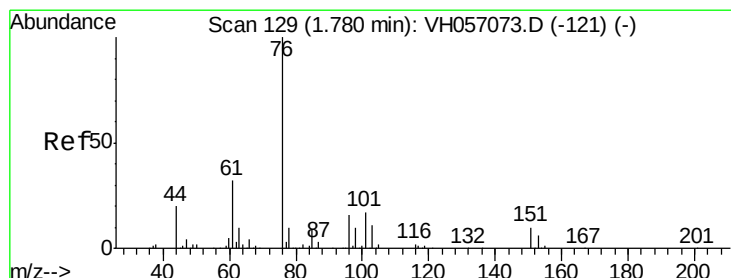
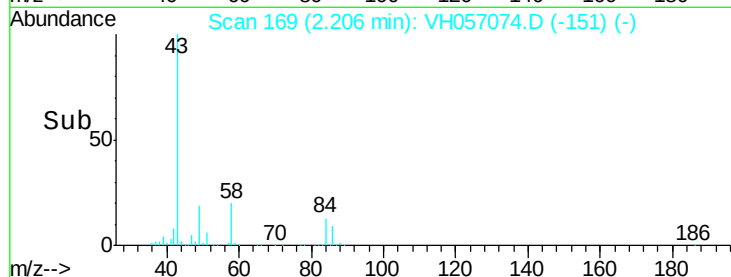
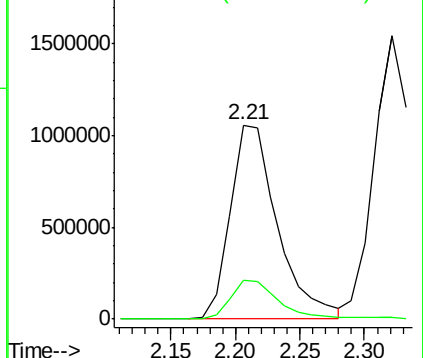
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VH0

Ion 58.00 (57.70 to 58.70): VH0



#18

Carbon Disulfide

Concen: 78.56 ug/l

RT: 1.77 min Scan# 128

Delta R.T. -0.01 min

Lab File: VH057074.D

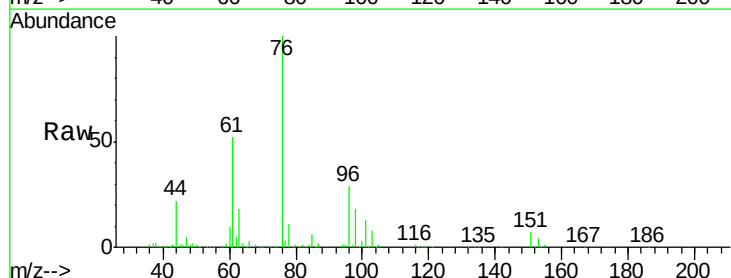
Acq: 17 Sep 2015 19:56

Tgt Ion: 76 Resp: 1930823

Ion Ratio Lower Upper

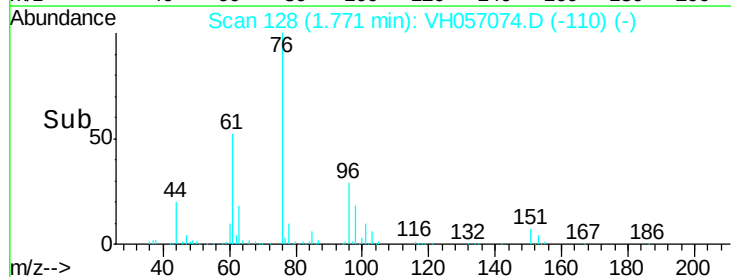
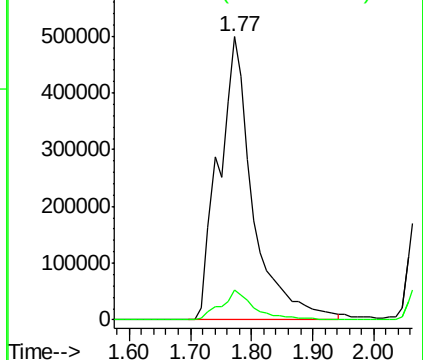
76 100

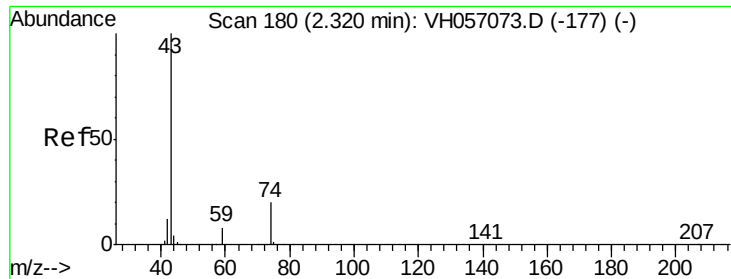
78 10.6 7.1 10.7



Abundance Ion 76.00 (75.70 to 76.70): VH0

Ion 78.00 (77.70 to 78.70): VH0





#19

Methyl Acetate

Concen: 74.33 ug/l

RT: 2.32 min Scan# 180

Delta R.T. 0.00 min

Lab File: VH057074.D

Acq: 17 Sep 2015 19:56

Tot Ion: 43 Resp: 3403273

Ion Ratio Lower Upper

43 100

74 18.7 13.3 24.7

Instrument :

MSVOA_H

ClientSampleId :

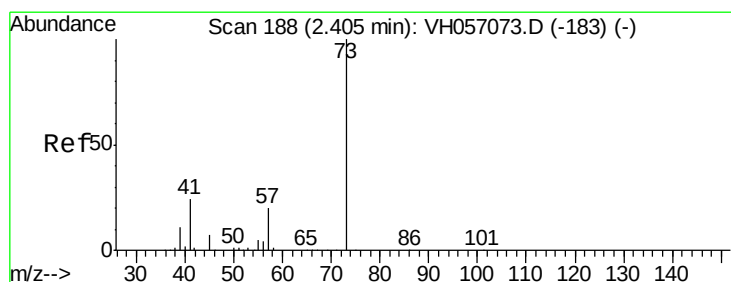
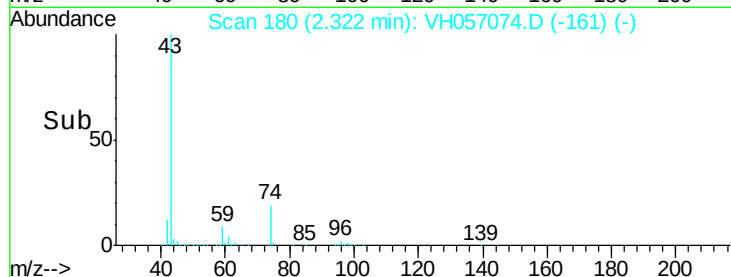
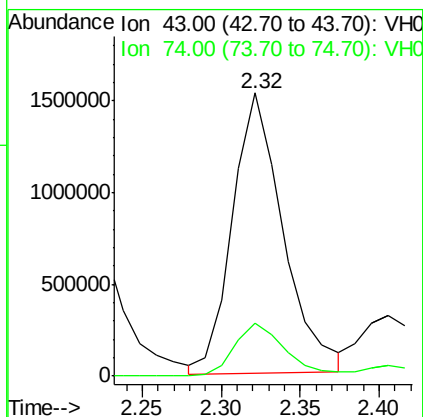
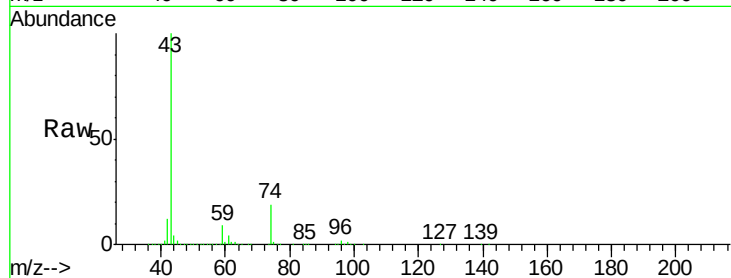
VSTDIC100

Manual Integrations

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MMDadoda

9/18/2015 3:41:13 PM



#20

Methyl tert-butyl Ether

Concen: 89.88 ug/l

RT: 2.41 min Scan# 188

Delta R.T. 0.00 min

Lab File: VH057074.D

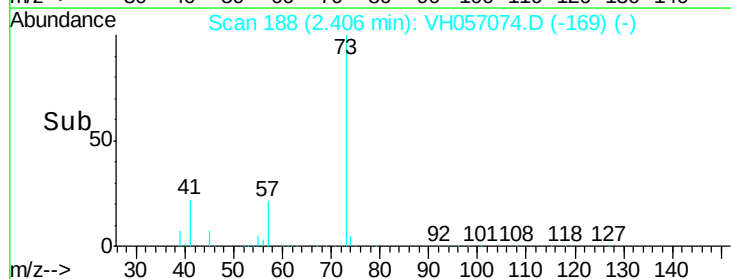
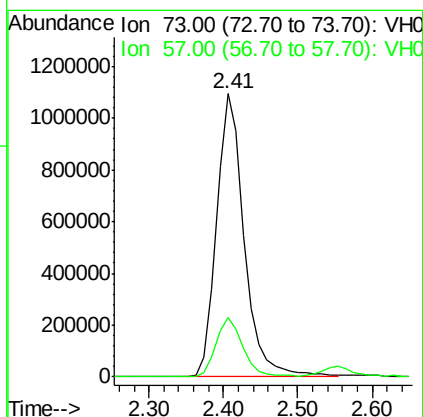
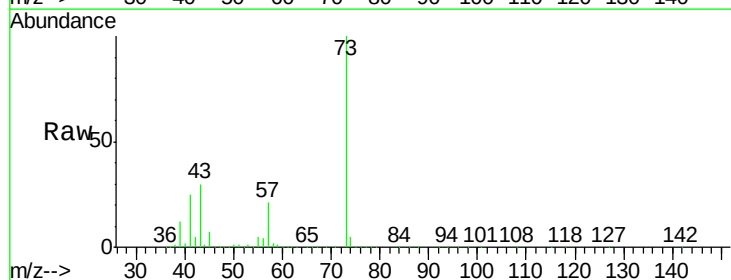
Acq: 17 Sep 2015 19:56

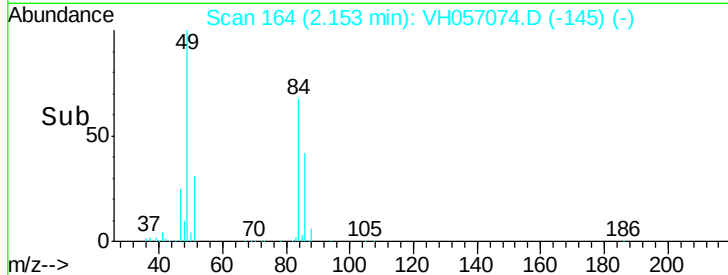
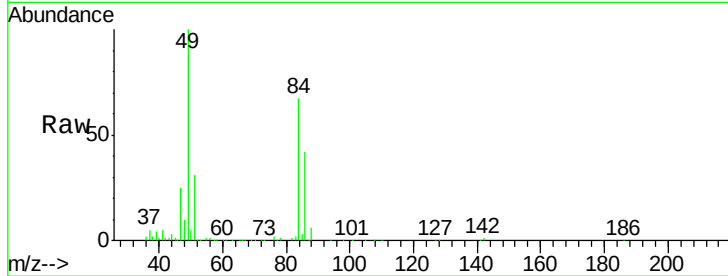
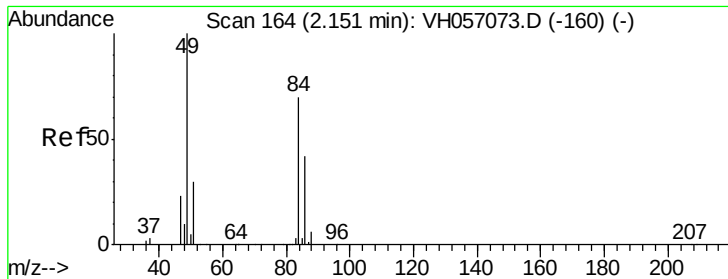
Tgt Ion: 73 Resp: 2803741

Ion Ratio Lower Upper

73 100

57 21.2 18.0 27.0





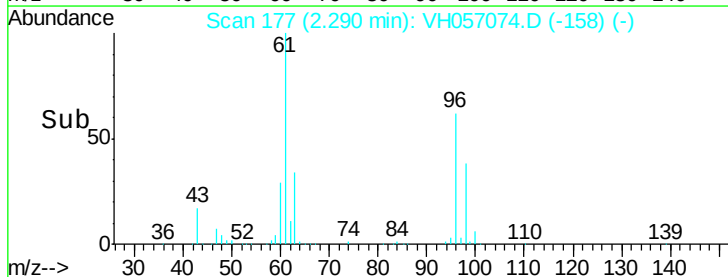
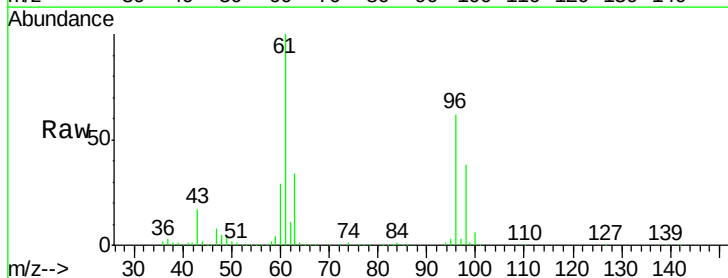
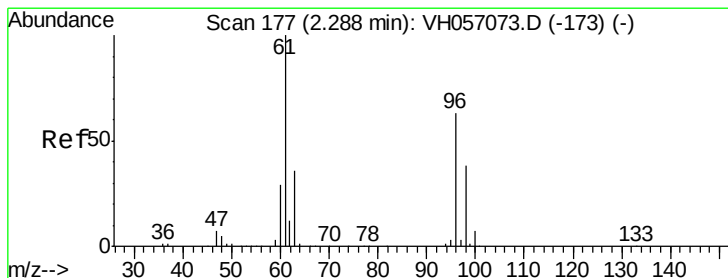
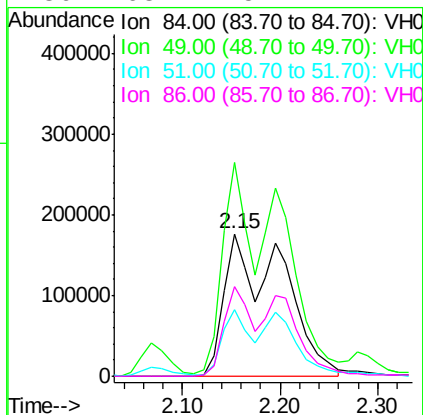
#21
Methylene Chloride
Concen: 80.82 ug/l m
RT: 2.15 min Scan# 164
Delta R.T. 0.00 min
Lab File: VH057074.D
Acq: 17 Sep 2015 19:56

Tot Ion	84	Resp	736601
Ion Ratio	Lower	Upper	
84	100		
49	149.7	132.8	199.2
51	46.9	39.5	59.3
86	63.1	51.4	77.2

Instrument :
MSVOA_H
ClientSampleId :
VSTDIC100

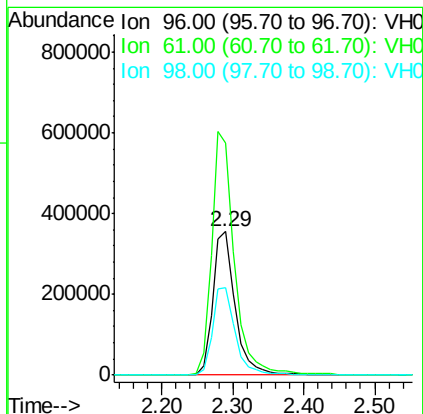
Manual Integrations
APPROVED

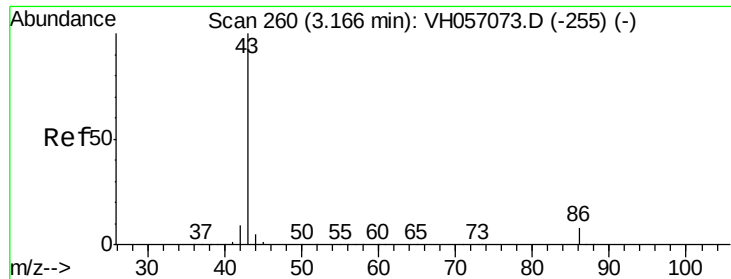
MMDadoda
9/18/2015 3:41:13 PM



#22
trans-1,2-Dichloroethene
Concen: 88.76 ug/l
RT: 2.29 min Scan# 177
Delta R.T. 0.00 min
Lab File: VH057074.D
Acq: 17 Sep 2015 19:56

Tgt Ion	96	Resp	783211
Ion Ratio	Lower	Upper	
96	100		
61	161.5	131.7	197.5
98	61.2	49.5	74.3





#23

Vinyl Acetate

Concen: 427.29 ug/l

RT: 3.16 min Scan# 260

Delta R.T. -0.00 min

Lab File: VH057074.D

Acq: 17 Sep 2015 19:56

Instrument :

MSVOA_H

ClientSampleId :

VSTDIC100

Tot Ion: 43 Resp: 7654862

Ion Ratio Lower Upper

43 100

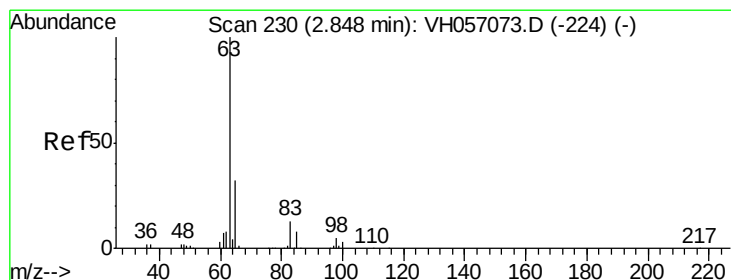
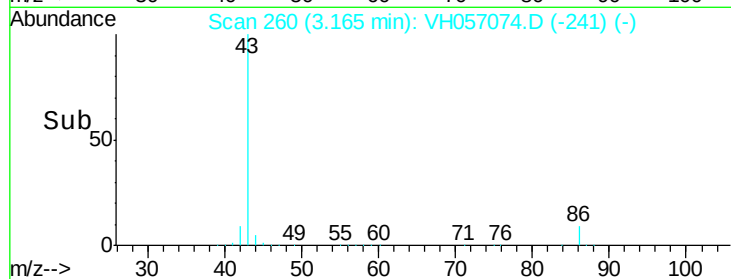
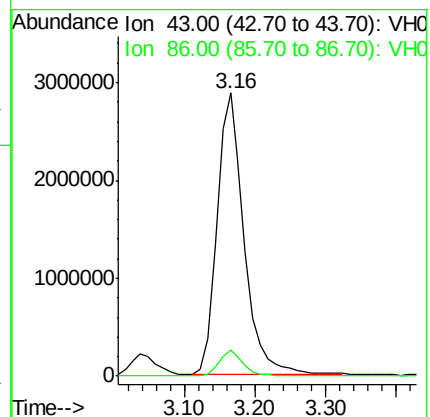
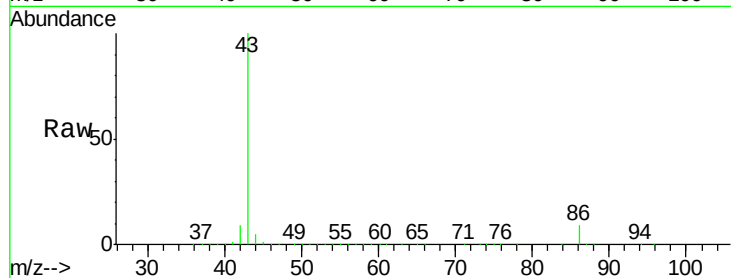
86 9.0 6.2 9.2

Manual Integrations

APPROVED

MMDadoda

9/18/2015 3:41:13 PM



#24

1,1-Dichloroethane

Concen: 86.47 ug/l

RT: 2.84 min Scan# 229

Delta R.T. -0.01 min

Lab File: VH057074.D

Acq: 17 Sep 2015 19:56

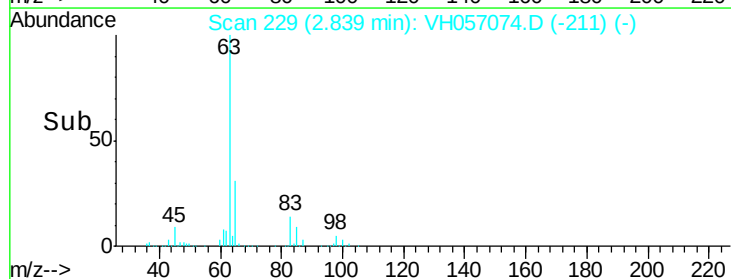
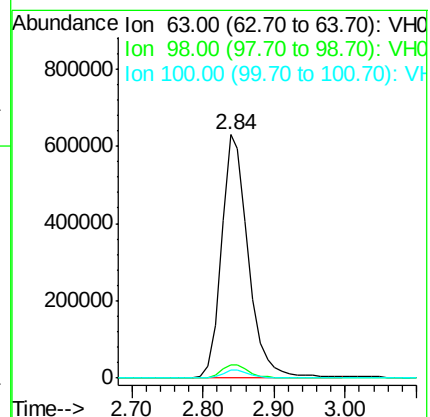
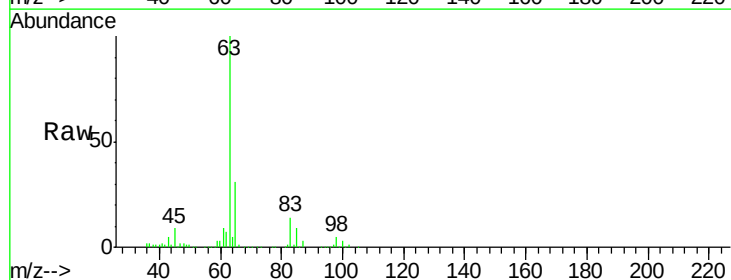
Tgt Ion: 63 Resp: 1658260

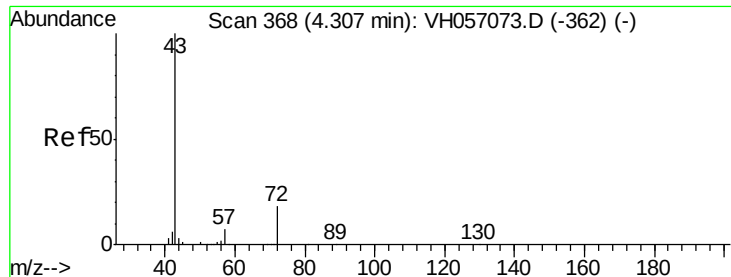
Ion Ratio Lower Upper

63 100

98 5.2 2.6 7.8

100 3.1 1.7 5.0





#25

2-Butanone

Concen: 430.74 ug/l

RT: 4.30 min Scan# 368

Delta R.T. -0.00 min

Lab File: VH057074.D

Acq: 17 Sep 2015 19:56

Tot Ion: 43 Resp: 6102024

Ion Ratio Lower Upper

43 100

72 19.7 0.0 39.2

Instrument :

MSVOA_H

ClientSampleId :

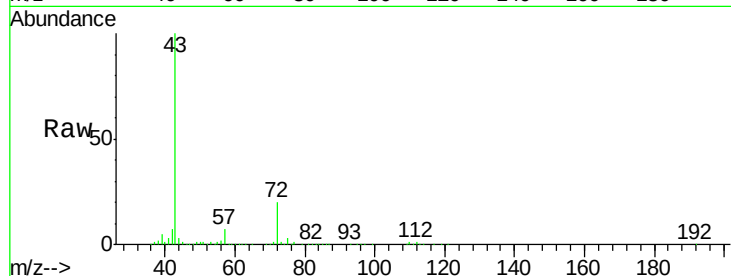
VSTDIC100

Manual Integrations

APPROVED

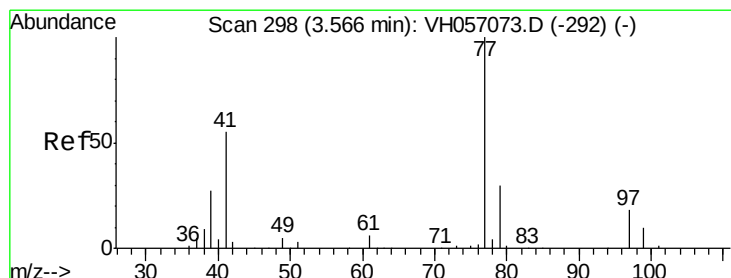
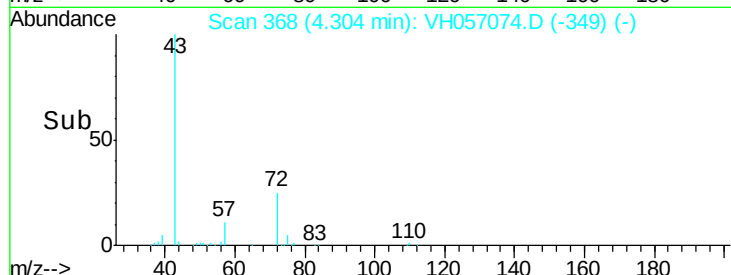
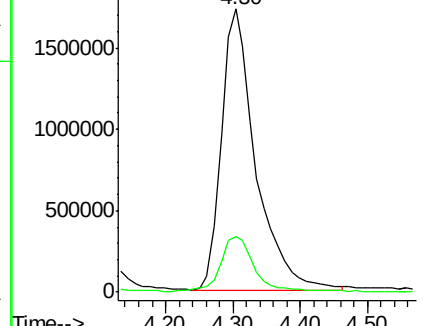
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Abundance Ion 43.00 (42.70 to 43.70): VH0

Ion 72.00 (71.70 to 72.70): VH0



#26

2,2-Dichloropropane

Concen: 92.64 ug/l

RT: 3.57 min Scan# 298

Delta R.T. -0.00 min

Lab File: VH057074.D

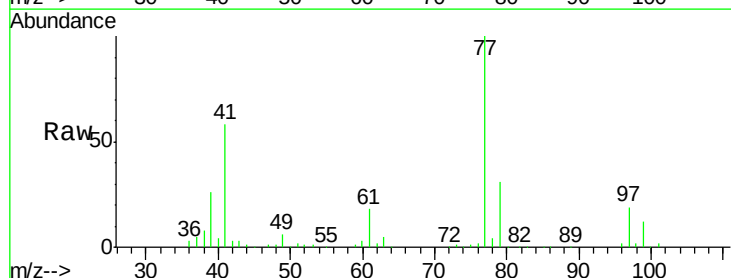
Acq: 17 Sep 2015 19:56

Tgt Ion: 77 Resp: 976106

Ion Ratio Lower Upper

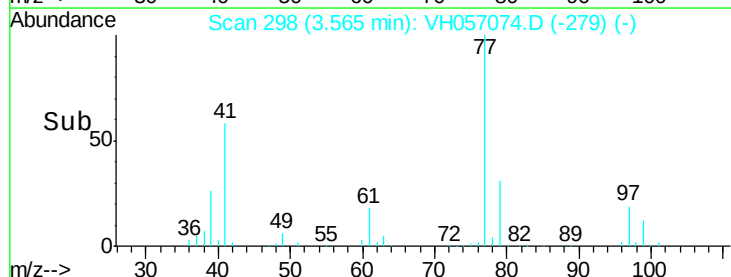
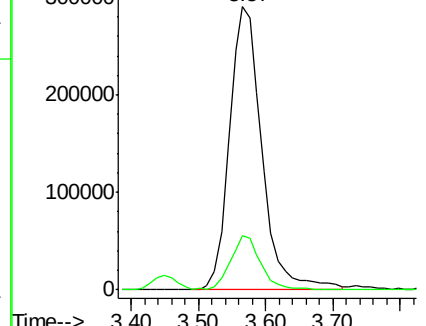
77 100

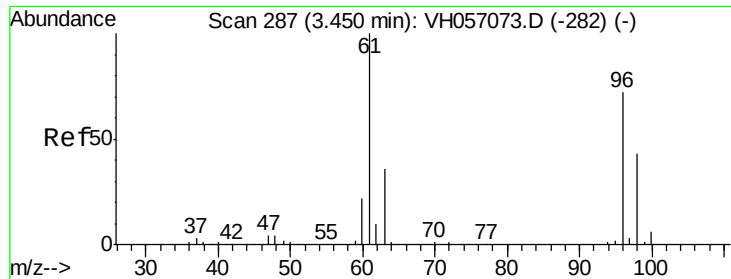
97 19.2 8.8 26.4



Abundance Ion 77.00 (76.70 to 77.70): VH0

Ion 97.00 (96.70 to 97.70): VH0





#27

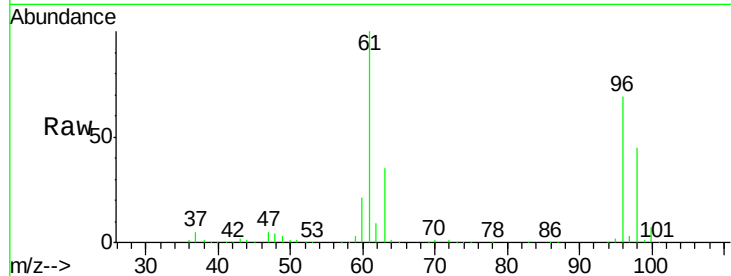
cis-1,2-Dichloroethene
Concen: 101.40 ug/l
RT: 3.45 min Scan# 287
Delta R.T. -0.00 min
Lab File: VH057074.D
Acq: 17 Sep 2015 19:56

Instrument :
MSVOA_H
ClientSampleId :
VSTDIC100

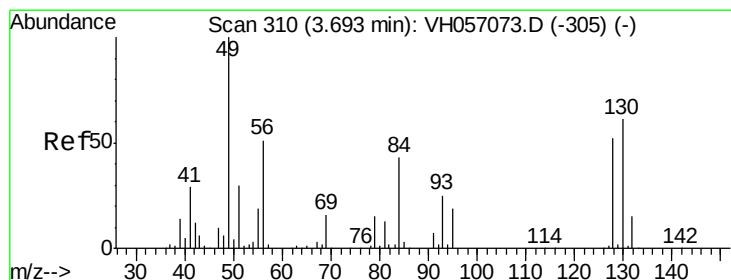
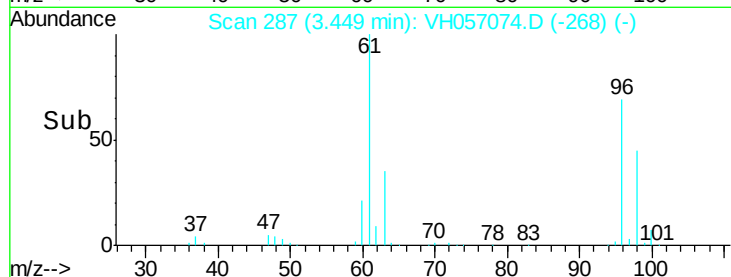
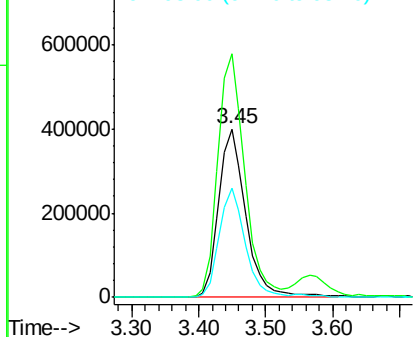
Tot Ion	Ion	Ratio	Lower	Upper
96	100			
61	144.5	115.4	173.0	
98	64.6	49.7	74.5	

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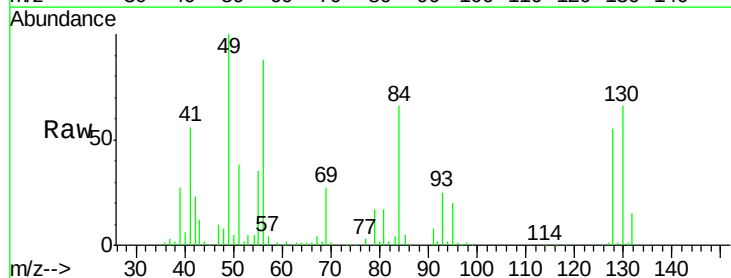
Abundance Ion 96.00 (95.70 to 96.70): VH0
Ion 61.00 (60.70 to 61.70): VH0
Ion 98.00 (97.70 to 98.70): VH0



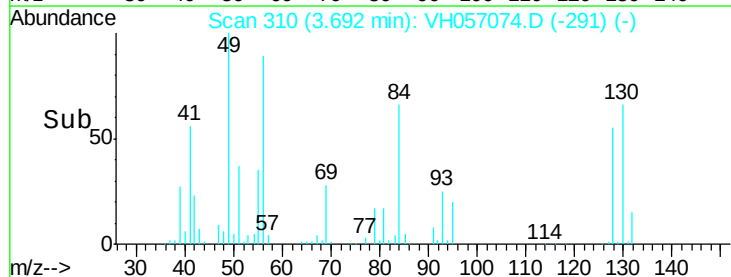
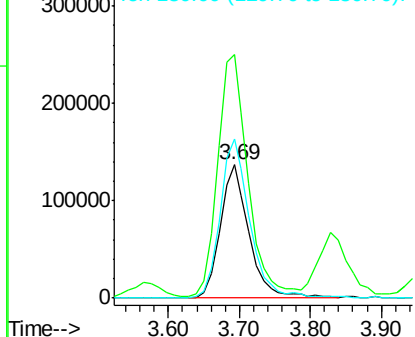
#28

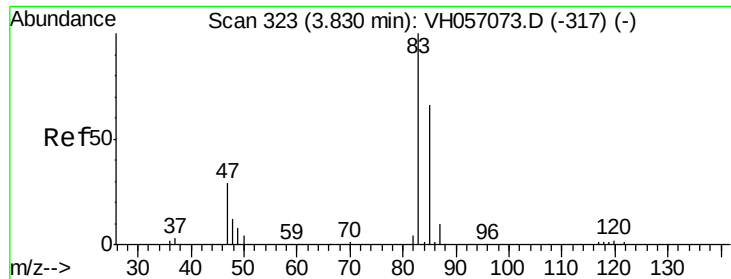
Bromochloromethane
Concen: 93.28 ug/l
RT: 3.69 min Scan# 310
Delta R.T. -0.00 min
Lab File: VH057074.D
Acq: 17 Sep 2015 19:56

Tgt Ion	Ion	Ratio	Lower	Upper
128	100			
49	182.6	0.0	441.4	
130	119.6	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





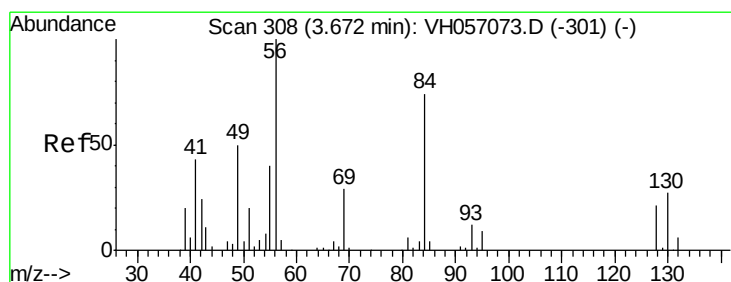
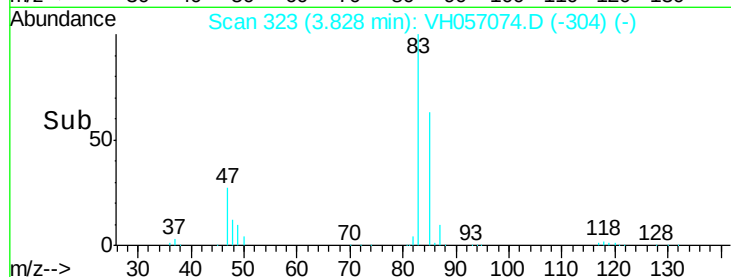
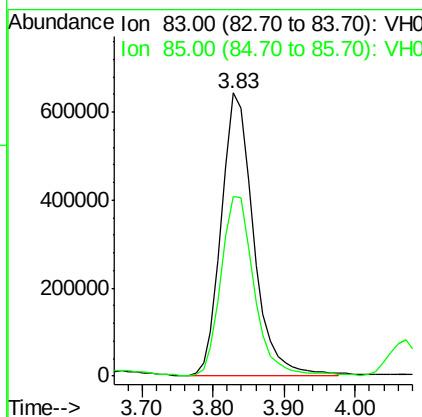
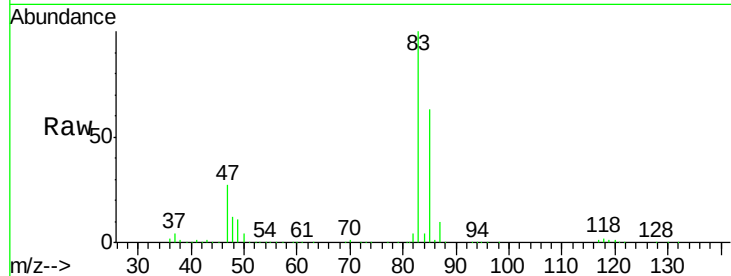
#29
Chloroform
Concen: 98.88 ug/l
RT: 3.83 min Scan# 323
Delta R.T. -0.00 min
Lab File: VH057074.D
Acq: 17 Sep 2015 19:56

Instrument :
MSVOA_H
ClientSampleId :
VSTDIC100

Tot Ion: 83 Resp: 1987678
Ion Ratio Lower Upper
83 100
85 63.4 54.3 81.5

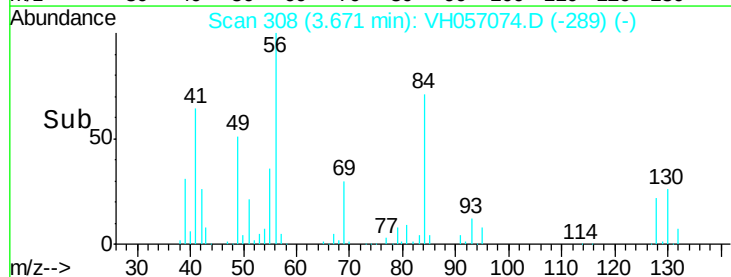
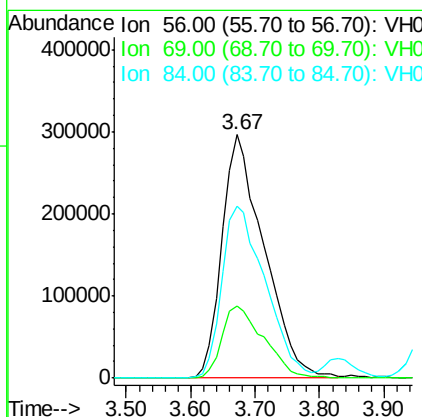
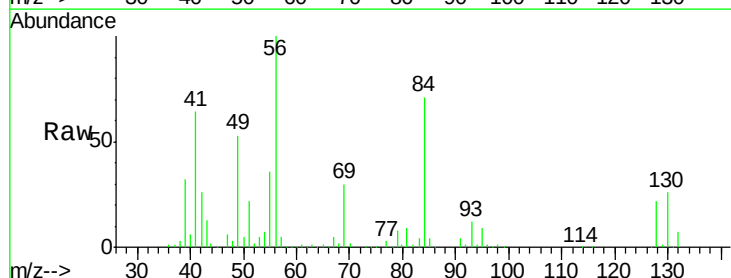
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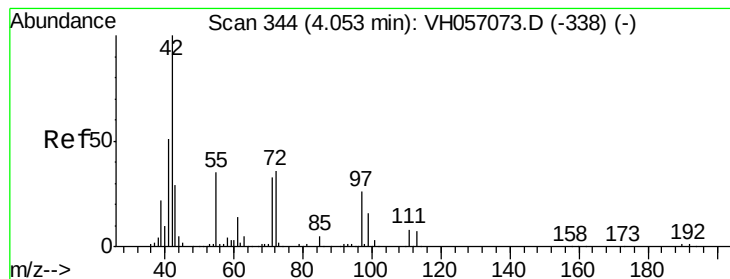
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#30
Cyclohexane
Concen: 91.66 ug/l
RT: 3.67 min Scan# 308
Delta R.T. -0.00 min
Lab File: VH057074.D
Acq: 17 Sep 2015 19:56

Tgt Ion: 56 Resp: 1342104
Ion Ratio Lower Upper
56 100
69 29.6 18.1 33.7
84 70.5 0.0 136.8





#31

Tetrahydrofuran

Concen: 426.71 ug/l

RT: 4.05 min Scan# 344

Delta R.T. -0.00 min

Lab File: VH057074.D

Acq: 17 Sep 2015 19:56

Instrument :

MSVOA_H

ClientSampleId :

VSTDIC100

Tot Ion: 42 Resp: 3512718

Ion Ratio Lower Upper

42 100

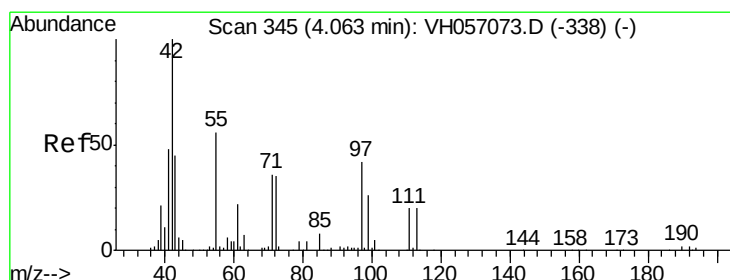
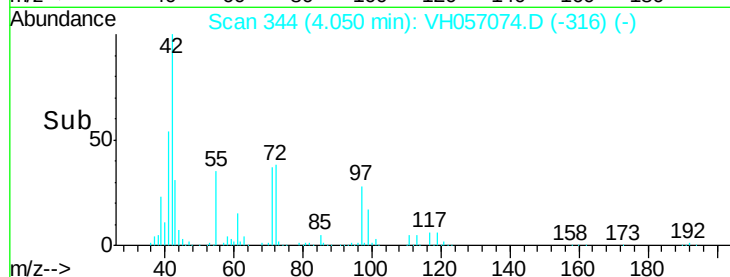
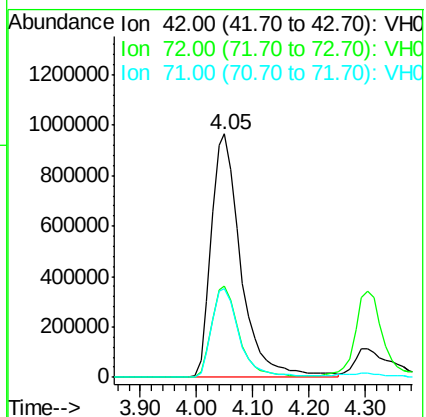
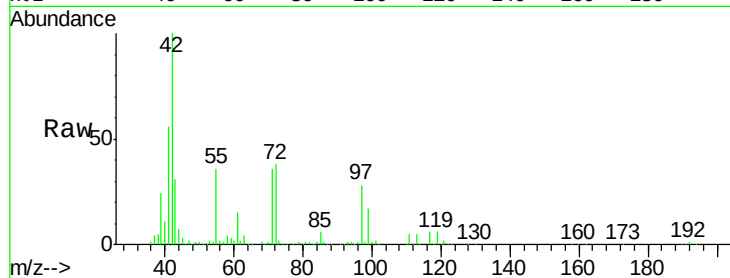
72 34.5 25.5 38.3

71 34.1 25.4 38.0

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 104.91 ug/l

RT: 4.07 min Scan# 346

Delta R.T. 0.01 min

Lab File: VH057074.D

Acq: 17 Sep 2015 19:56

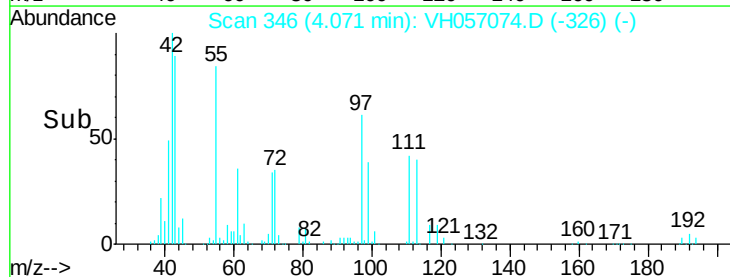
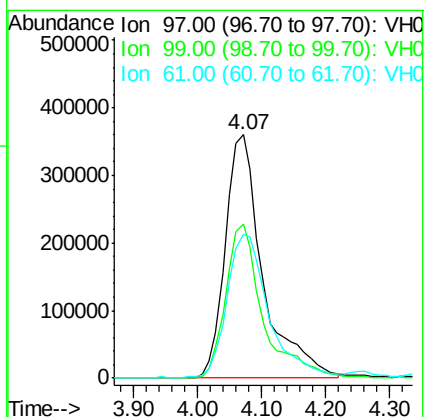
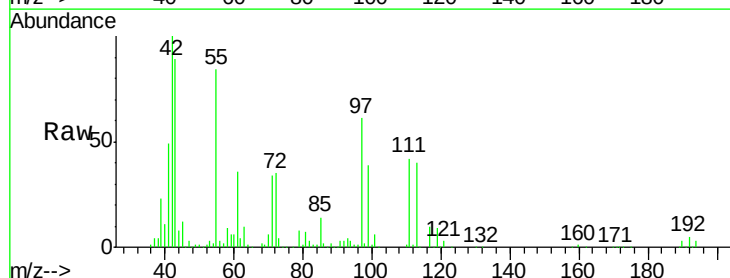
Tgt Ion: 97 Resp: 1464317

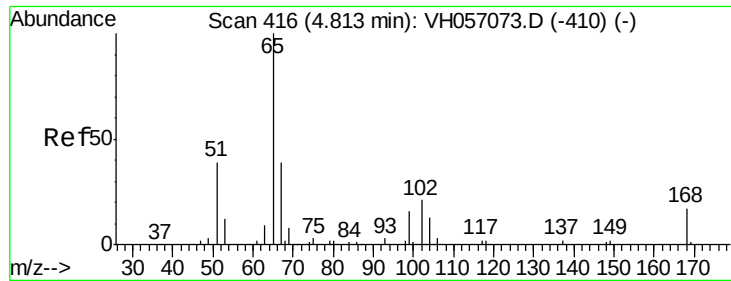
Ion Ratio Lower Upper

97 100

99 63.1 49.8 74.6

61 59.1 45.0 67.4





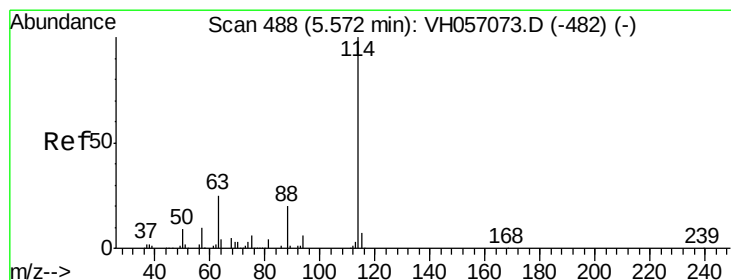
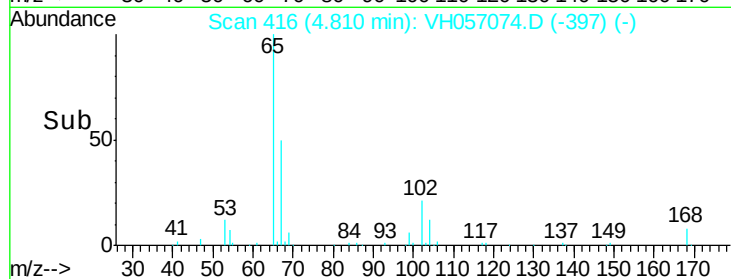
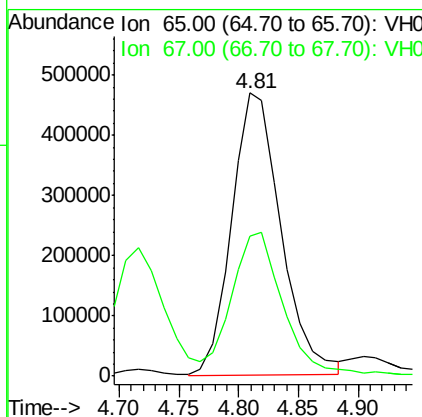
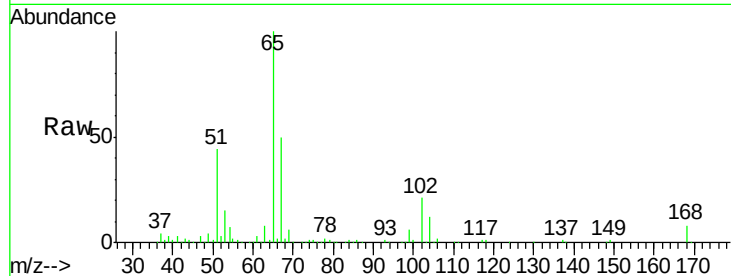
#33
 1,2-Dichloroethane-d4
 Concen: 109.27 ug/l
 RT: 4.81 min Scan# 416
 Delta R.T. -0.00 min
 Lab File: VH057074.D
 Acq: 17 Sep 2015 19:56

Instrument :
 MSVOA_H
 ClientSampleId :
 VSTDIC100

Tot Ion: 65 Resp: 1356784
 Ion Ratio Lower Upper
 65 100
 67 49.6 43.2 64.8

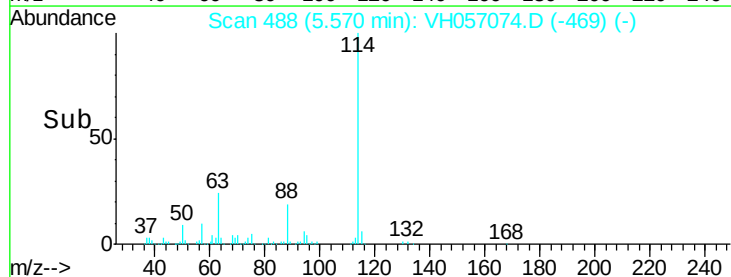
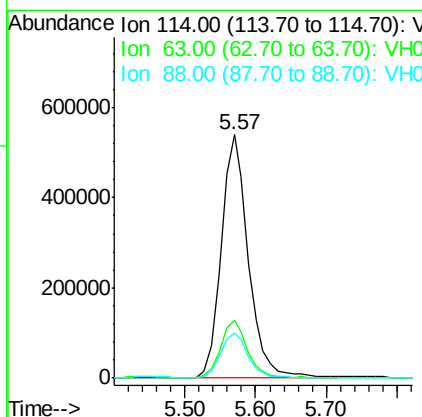
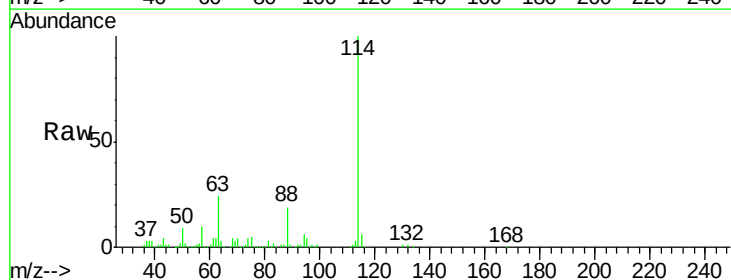
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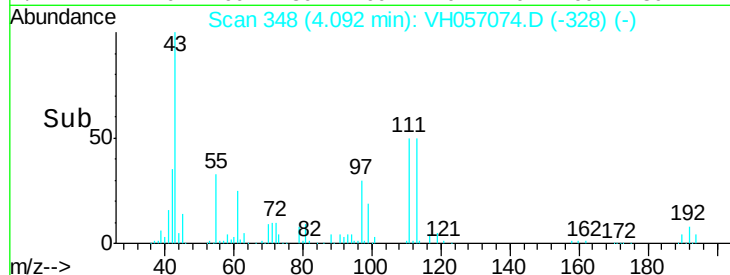
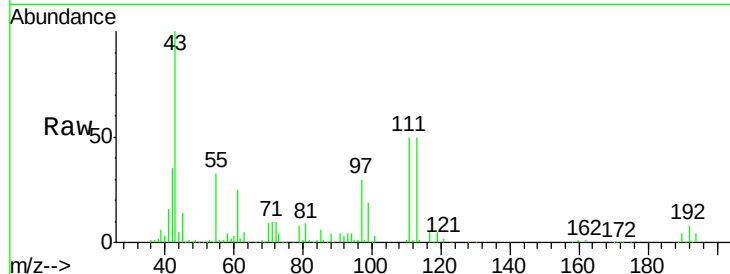
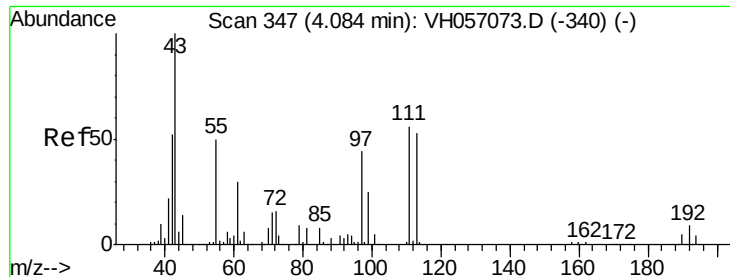
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#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.57 min Scan# 488
 Delta R.T. -0.00 min
 Lab File: VH057074.D
 Acq: 17 Sep 2015 19:56

Tgt Ion: 114 Resp: 1451475
 Ion Ratio Lower Upper
 114 100
 63 23.9 19.0 28.4
 88 18.5 15.7 23.5





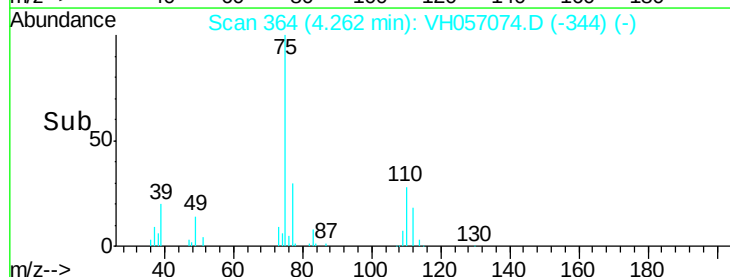
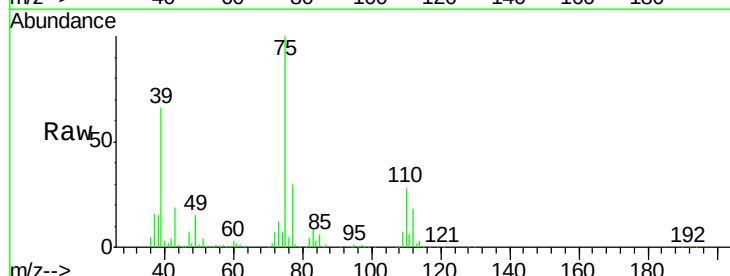
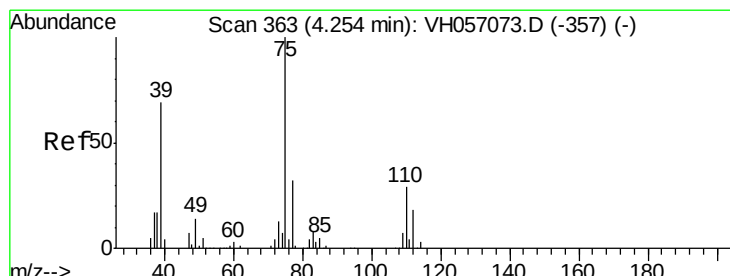
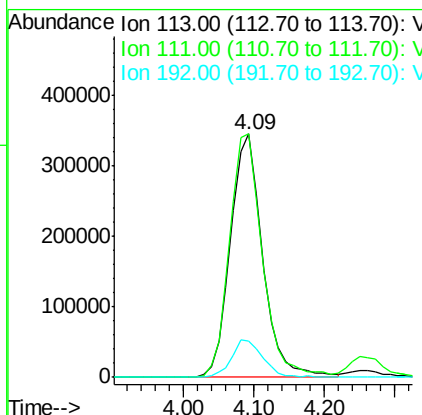
#35
Dibromofluoromethane
Concen: 103.41 ug/l
RT: 4.09 min Scan# 348
Delta R.T. 0.01 min
Lab File: VH057074.D
Acq: 17 Sep 2015 19:56

Tot Ion	Ratio	Lower	Upper
113	100		
111	100.0	84.0	126.0
192	15.0	13.6	20.4

Instrument :
MSVOA_H
ClientSampleId :
VSTDIC100

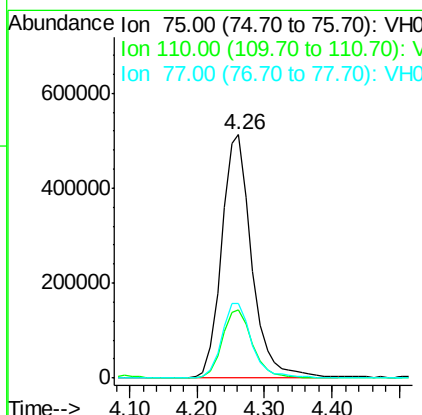
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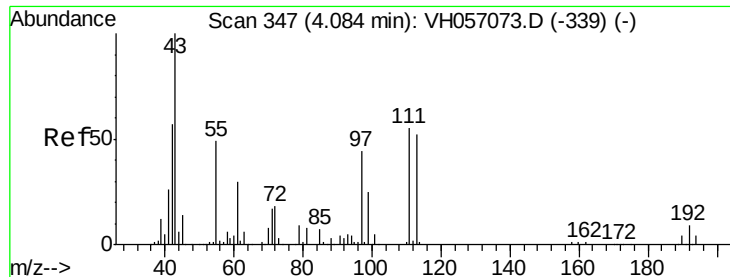
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#36
1,1-Dichloropropene
Concen: 106.65 ug/l
RT: 4.26 min Scan# 364
Delta R.T. 0.01 min
Lab File: VH057074.D
Acq: 17 Sep 2015 19:56

Tgt Ion	Ratio	Lower	Upper
75	100		
110	27.8	13.7	41.1
77	30.4	24.0	36.0





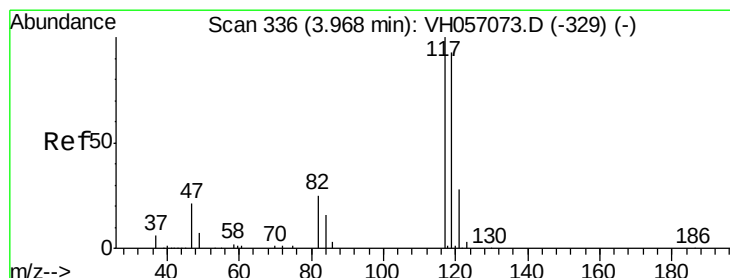
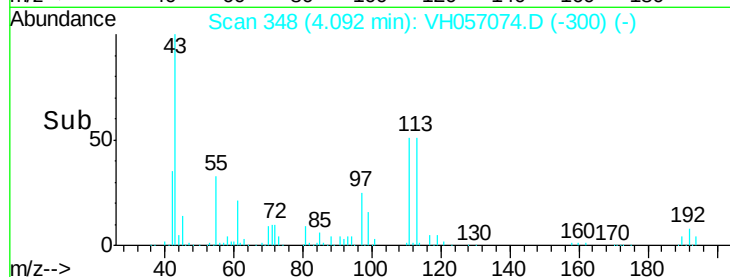
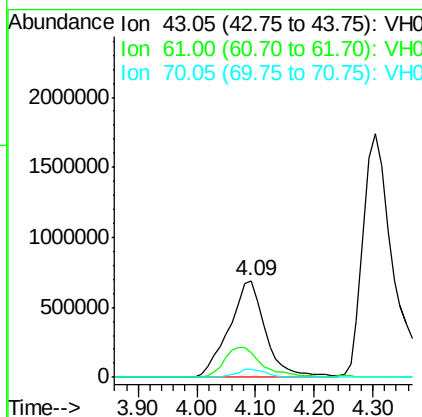
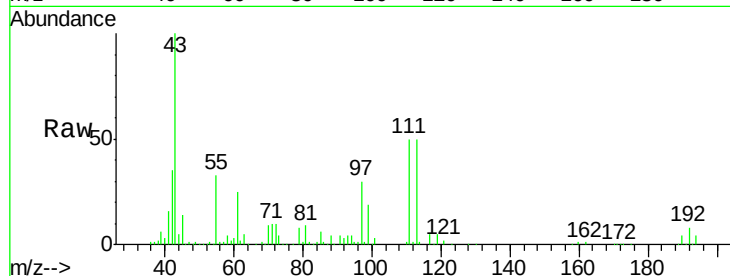
#37
Ethyl acetate
Concen: 93.12 ug/l
RT: 4.09 min Scan# 348
Delta R.T. 0.01 min
Lab File: VH057074.D
Acq: 17 Sep 2015 19:56

Instrument :
MSVOA_H
ClientSampleId :
VSTDIC100

Tot Ion: 43 Resp: 2898695
Ion Ratio Lower Upper
43 100
61 0.0 23.9 35.9#
70 7.0 5.4 8.0

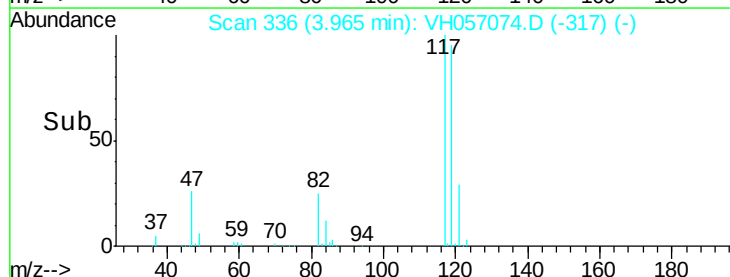
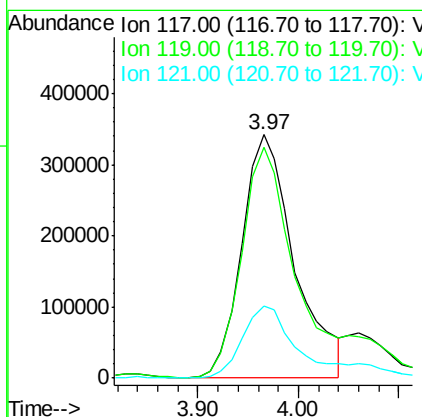
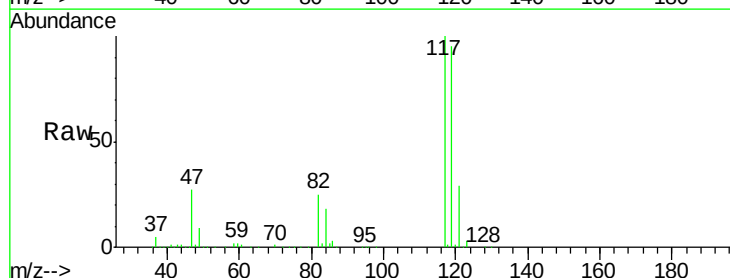
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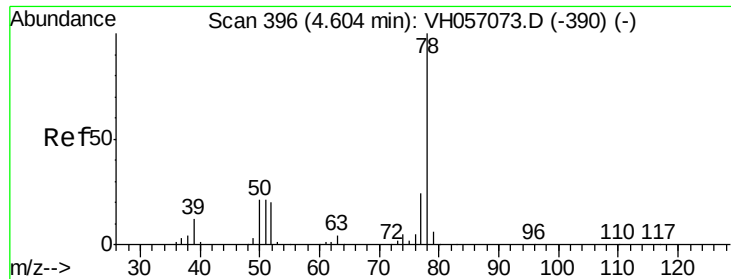
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#38
Carbon Tetrachloride
Concen: 106.70 ug/l
RT: 3.97 min Scan# 336
Delta R.T. -0.00 min
Lab File: VH057074.D
Acq: 17 Sep 2015 19:56

Tgt Ion: 117 Resp: 1251742
Ion Ratio Lower Upper
117 100
119 95.0 78.7 118.1
121 29.4 25.9 38.9





#39

Benzene

Concen: 99.69 ug/l

RT: 4.61 min Scan# 397

Delta R.T. 0.01 min

Lab File: VH057074.D

Acq: 17 Sep 2015 19:56

Tot Ion: 78 Resp: 3727938

Ion Ratio Lower Upper

78 100

77 24.3 18.5 27.7

Instrument :

MSVOA_H

ClientSampleId :

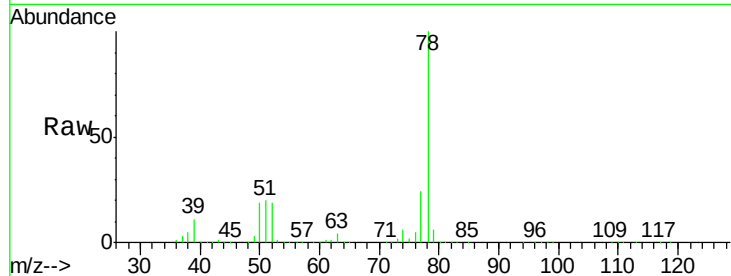
VSTDIC100

Manual Integrations

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Abundance Ion 78.10 (77.80 to 78.80): VH0

Ion 77.00 (76.70 to 77.70): VH0

4.61

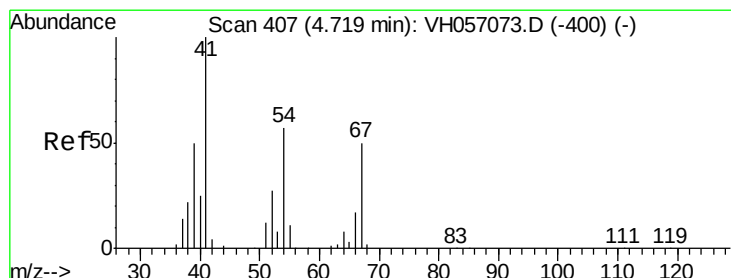
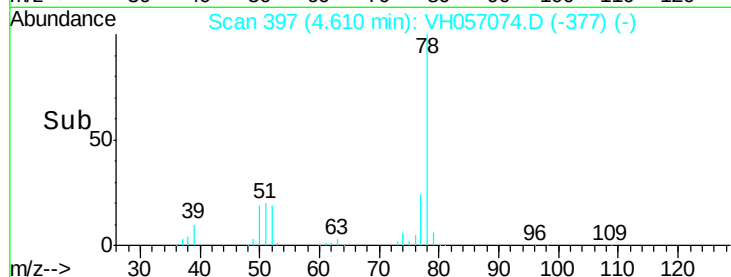
1000000

500000

0

4.50 4.60 4.70 4.80

Time-->



#40

Methacrylonitrile

Concen: 92.82 ug/l

RT: 4.72 min Scan# 407

Delta R.T. -0.00 min

Lab File: VH057074.D

Acq: 17 Sep 2015 19:56

Tgt Ion: 41 Resp: 1340741

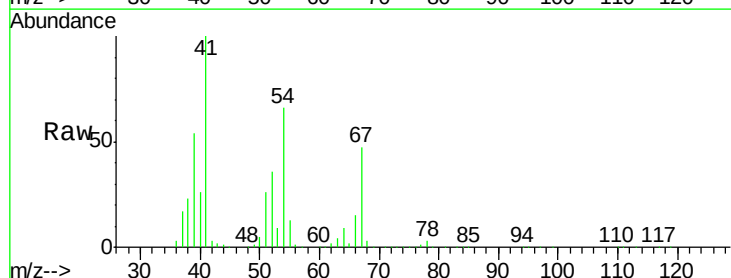
Ion Ratio Lower Upper

41 100

39 54.4 25.1 75.2

67 46.8 22.5 67.5

52 36.2 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

600000

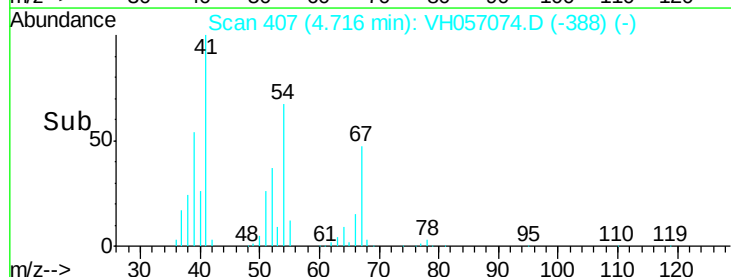
400000

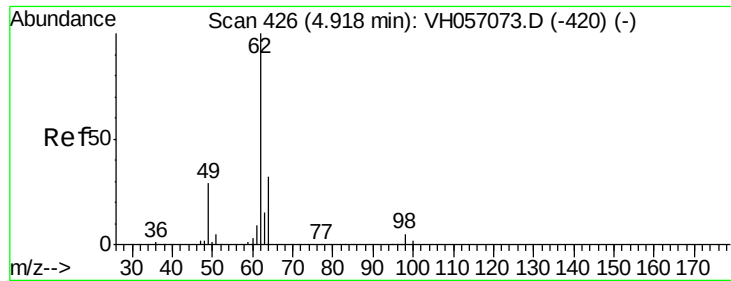
200000

0

4.60 4.70 4.80 4.90

Time-->





#41

1,2-Dichloroethane

Concen: 103.95 ug/l

RT: 4.91 min Scan# 426

Delta R.T. -0.00 min

Lab File: VH057074.D

Acq: 17 Sep 2015 19:56

Instrument :

MSVOA_H

ClientSampleId :

VSTDIC100

Tot Ion: 62 Resp: 1666262

Ion Ratio Lower Upper

62 100

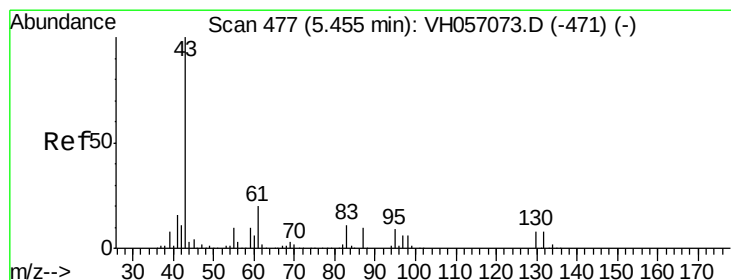
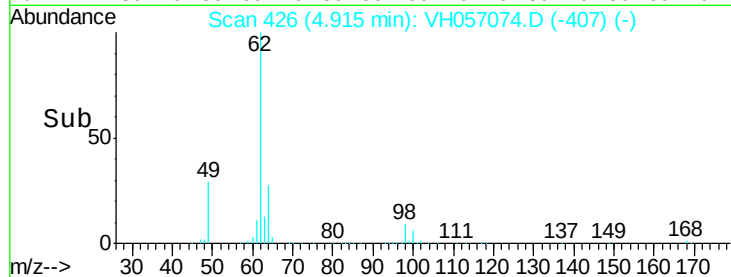
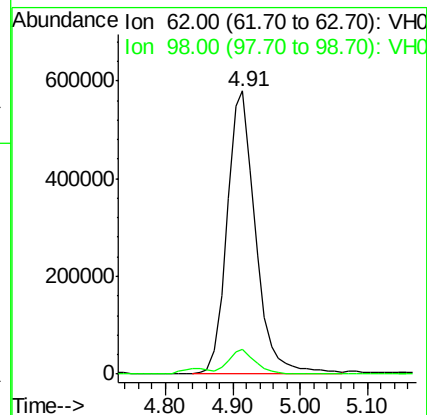
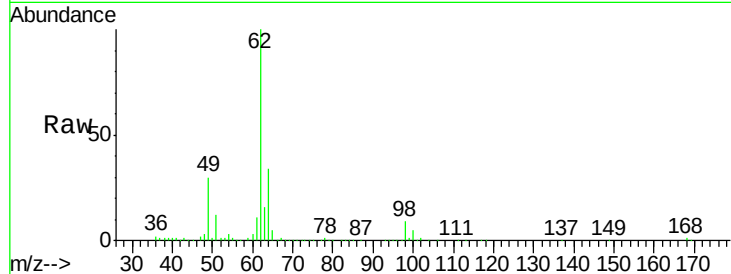
98 8.9 7.3 10.9

Manual Integrations

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#42

Isopropyl Acetate

Concen: 93.24 ug/l

RT: 5.45 min Scan# 477

Delta R.T. -0.00 min

Lab File: VH057074.D

Acq: 17 Sep 2015 19:56

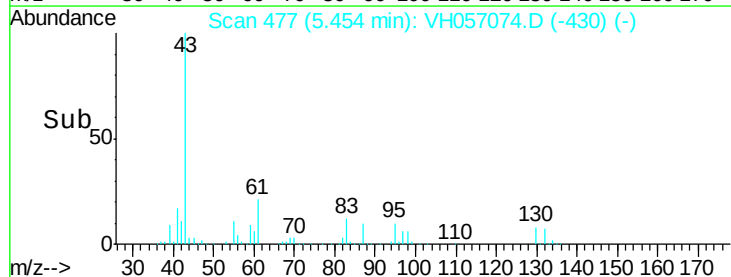
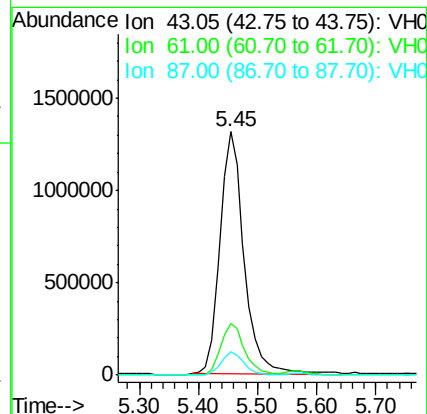
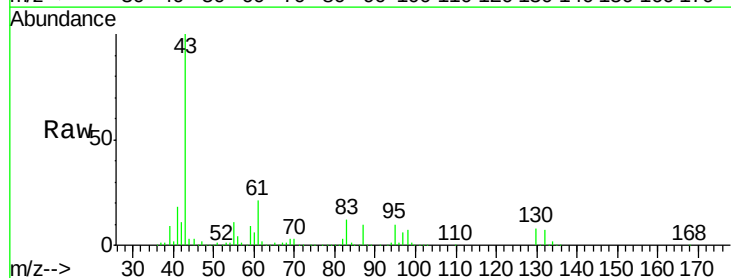
Tgt Ion: 43 Resp: 3752488

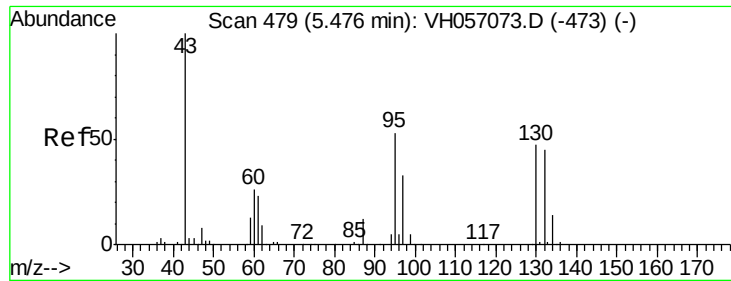
Ion Ratio Lower Upper

43 100

61 21.0 15.8 23.6

87 9.8 7.0 10.6





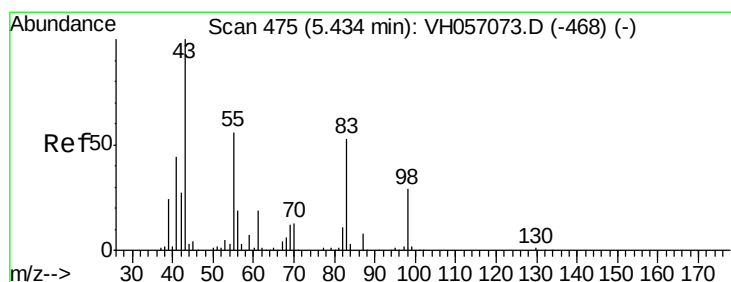
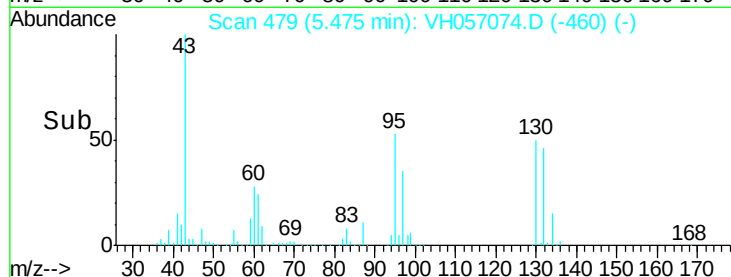
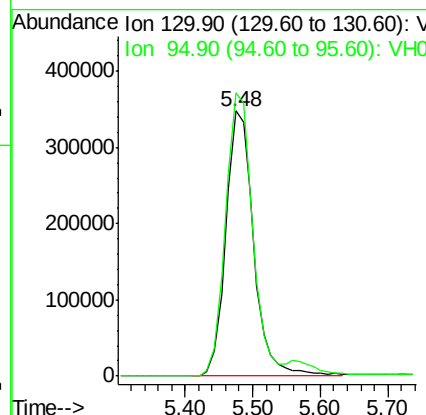
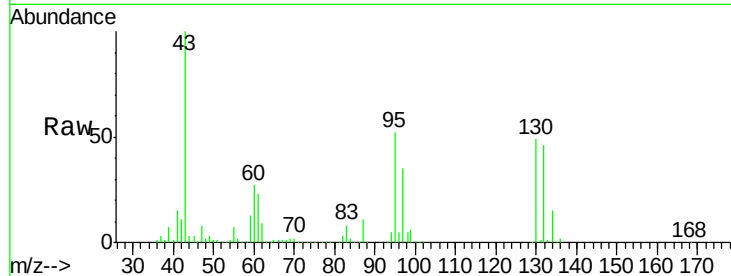
#43
 Trichloroethene
 Concen: 107.34 ug/l
 RT: 5.48 min Scan# 479
 Delta R.T. -0.00 min
 Lab File: VH057074.D
 Acq: 17 Sep 2015 19:56

Instrument :
 MSVOA_H
 ClientSampleId :
 VSTDIC100

Tot Ion:130 Resp: 998318
 Ion Ratio Lower Upper
 130 100
 95 106.7 84.0 126.0

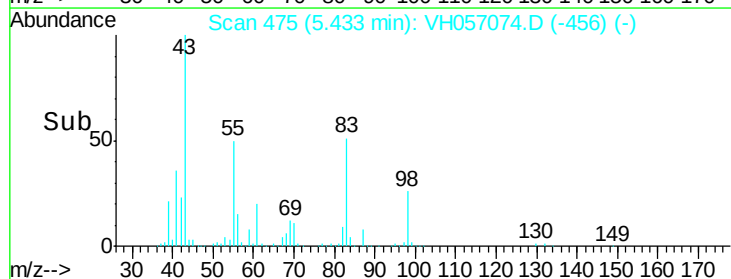
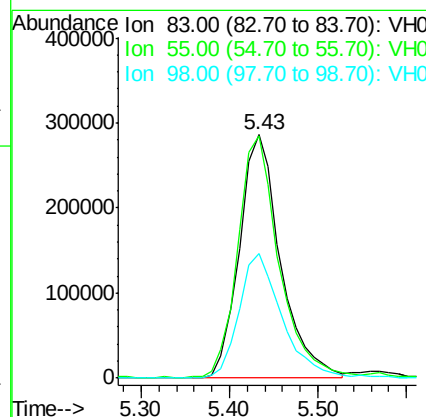
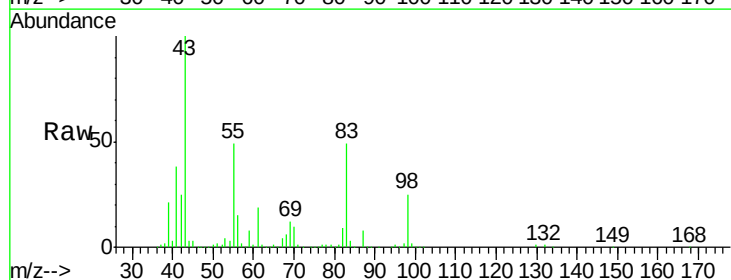
Manual Integrations
 APPROVED

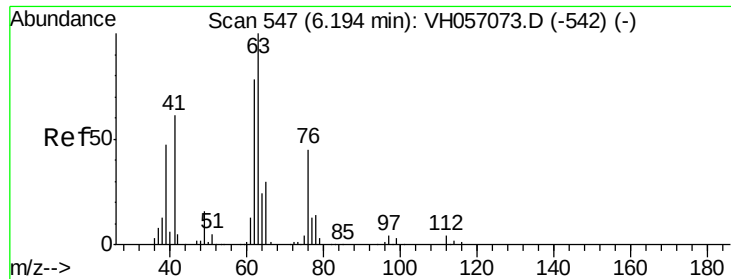
MMDadoda
 9/18/2015 3:41:13 PM



#44
 Methylcyclohexane
 Concen: 100.11 ug/l
 RT: 5.43 min Scan# 475
 Delta R.T. -0.00 min
 Lab File: VH057074.D
 Acq: 17 Sep 2015 19:56

Tgt Ion: 83 Resp: 922278
 Ion Ratio Lower Upper
 83 100
 55 99.7 0.0 207.2
 98 51.1 0.0 108.4





#45

1,2-Dichloropropane

Concen: 99.02 ug/l

RT: 6.20 min Scan# 548

Delta R.T. 0.01 min

Lab File: VH057074.D

Acq: 17 Sep 2015 19:56

Instrument :

MSVOA_H

ClientSampleId :

VSTDIC100

Tot Ion: 63 Resp: 1191032

Ion Ratio Lower Upper

63 100

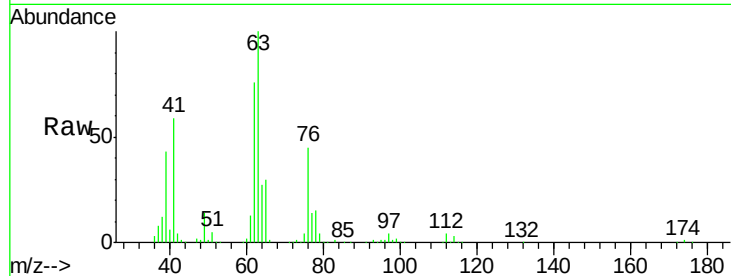
65 30.3 23.8 35.8

Manual Integrations

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Abundance Ion 63.00 (62.70 to 63.70): VH0

Ion 65.00 (64.70 to 65.70): VH0

6.20

400000

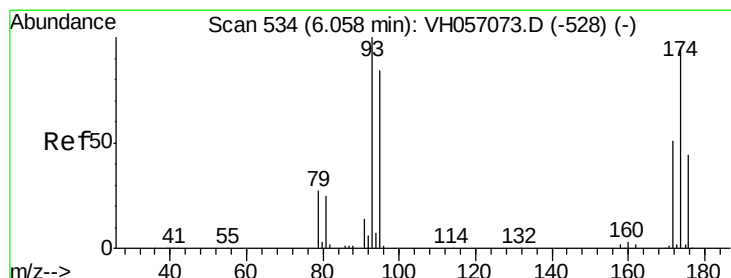
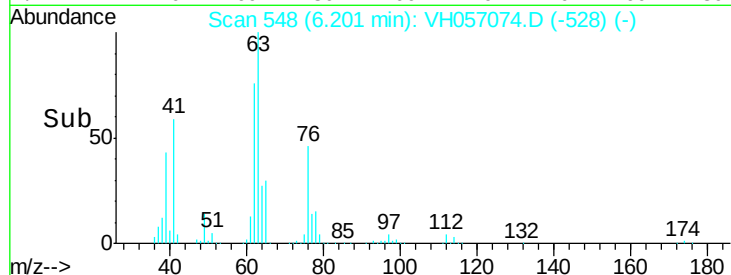
300000

200000

100000

0

Time-->



#46

Dibromomethane

Concen: 103.73 ug/l

RT: 6.05 min Scan# 534

Delta R.T. -0.00 min

Lab File: VH057074.D

Acq: 17 Sep 2015 19:56

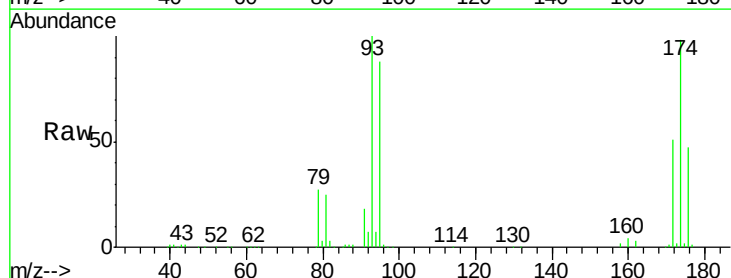
Tgt Ion: 93 Resp: 784052

Ion Ratio Lower Upper

93 100

95 87.6 69.5 104.3

174 98.4 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

6.05

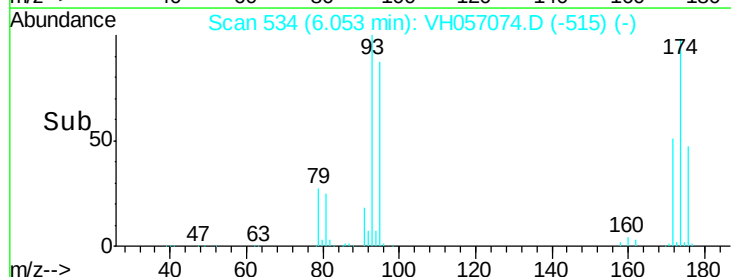
300000

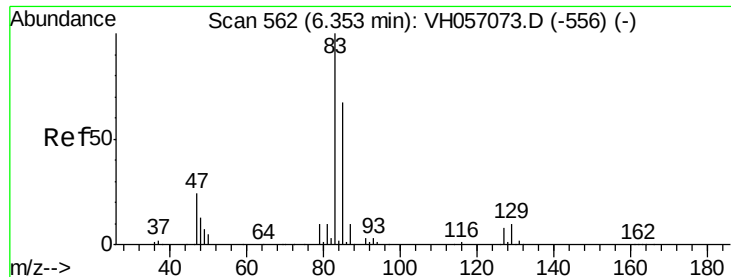
200000

100000

0

Time-->





#47

Bromodichloromethane

Concen: 105.71 ug/l

RT: 6.35 min Scan# 562

Delta R.T. -0.00 min

Lab File: VH057074.D

Acq: 17 Sep 2015 19:56

Instrument :

MSVOA_H

ClientSampleId :

VSTDIC100

Tot Ion: 83 Resp: 1631313

Ion Ratio Lower Upper

83 100

85 63.8 52.6 78.8

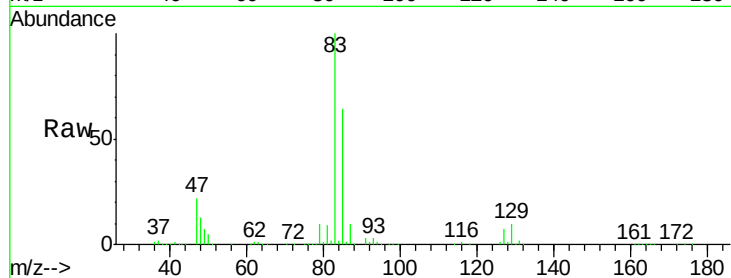
127 7.1 6.8 10.2

Manual Integrations

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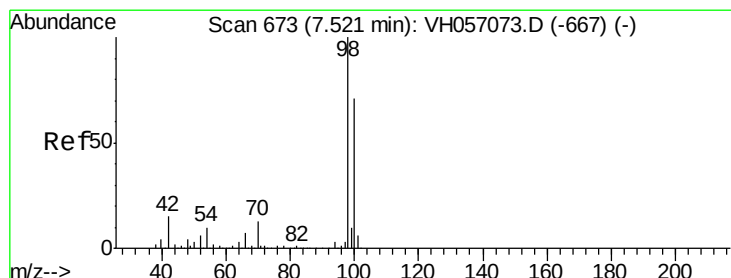
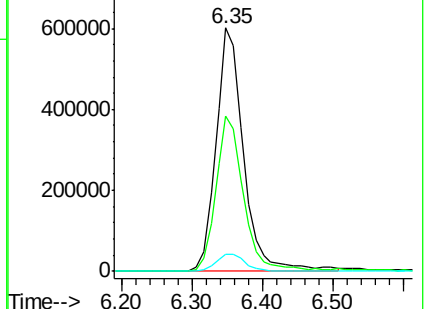
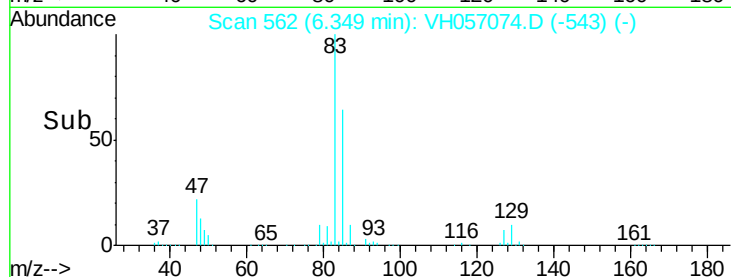
9/18/2015 3:41:13 PM



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: 112.83 ug/l

RT: 7.52 min Scan# 673

Delta R.T. -0.00 min

Lab File: VH057074.D

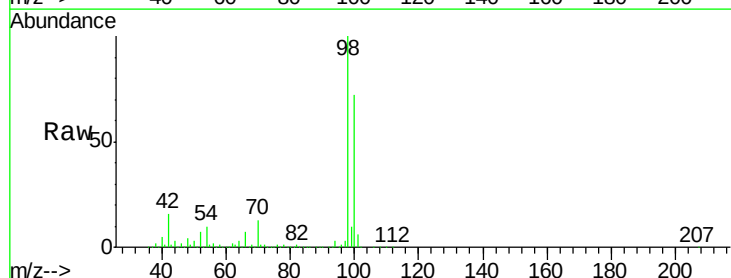
Acq: 17 Sep 2015 19:56

Tgt Ion: 98 Resp: 3146720

Ion Ratio Lower Upper

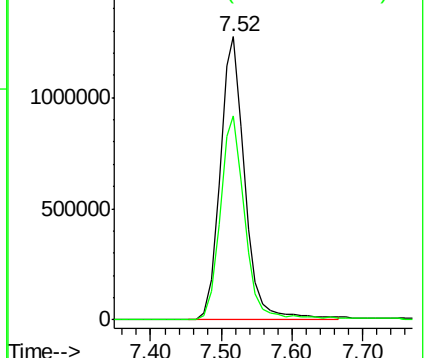
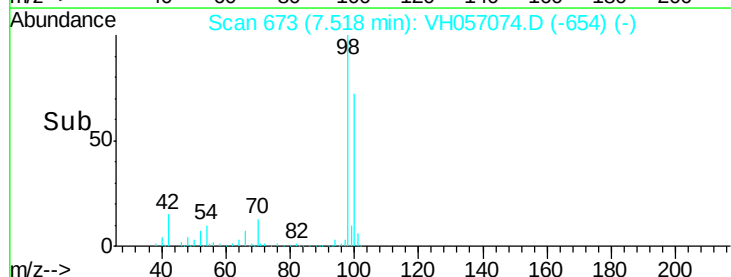
98 100

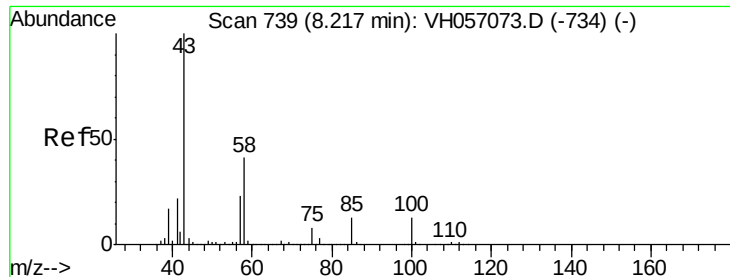
100 72.3 56.7 85.1



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: 442.61 ug/l

RT: 8.22 min Scan# 739

Delta R.T. -0.00 min

Lab File: VH057074.D

Acq: 17 Sep 2015 19:56

Tot Ion: 43 Resp: 10919717

Ion Ratio Lower Upper

43 100

58 43.1 20.0 60.0

Instrument :

MSVOA_H

ClientSampleId :

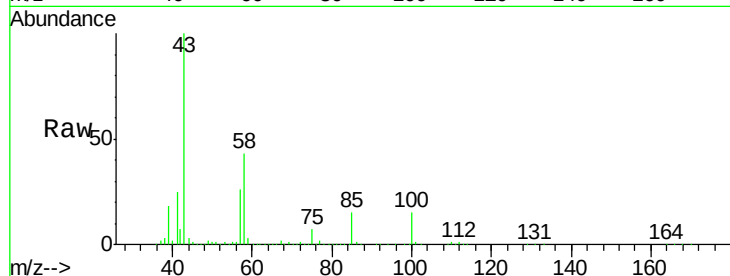
VSTDIC100

Manual Integrations

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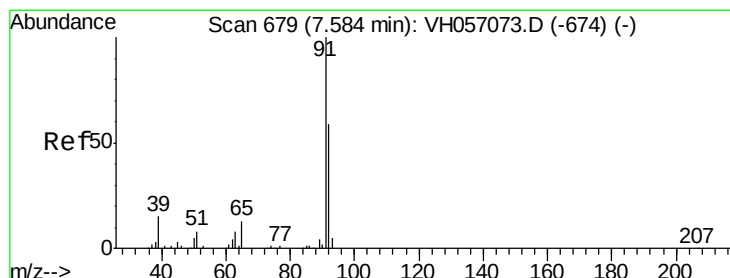
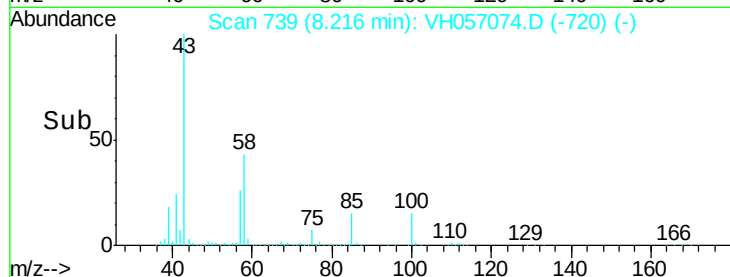
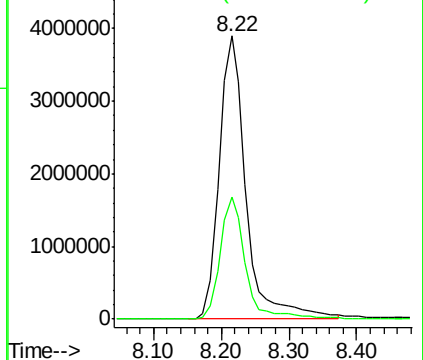
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VH0

Ion 58.00 (57.70 to 58.70): VH0



#50

Toluene

Concen: 102.22 ug/l

RT: 7.58 min Scan# 679

Delta R.T. -0.00 min

Lab File: VH057074.D

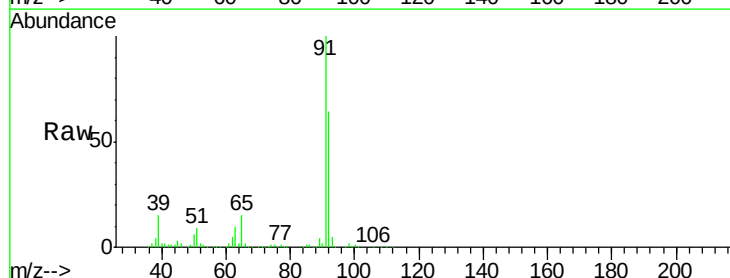
Acq: 17 Sep 2015 19:56

Tgt Ion: 92 Resp: 2444106

Ion Ratio Lower Upper

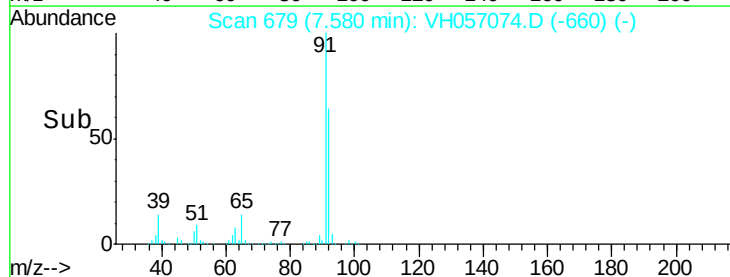
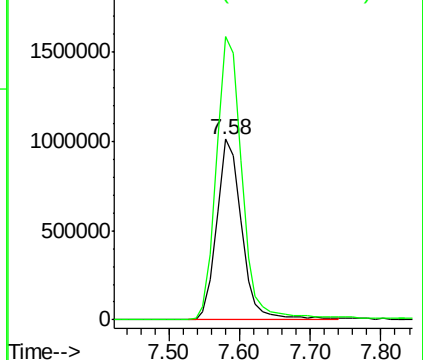
92 100

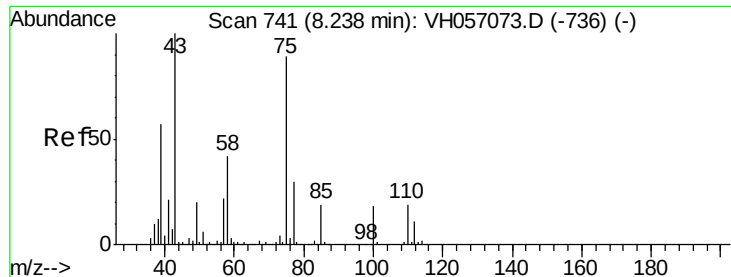
91 156.7 125.8 188.6



Abundance Ion 92.00 (91.70 to 92.70): VH0

Ion 91.00 (90.70 to 91.70): VH0





#51

t-1,3-Dichloropropene

Concen: 110.84 ug/l

RT: 8.24 min Scan# 741

Delta R.T. -0.00 min

Lab File: VH057074.D

Acq: 17 Sep 2015 19:56

Tot Ion: 75 Resp: 1969293

Ion Ratio Lower Upper

75 100

77 32.8 26.2 39.2

Instrument :

MSVOA_H

ClientSampleId :

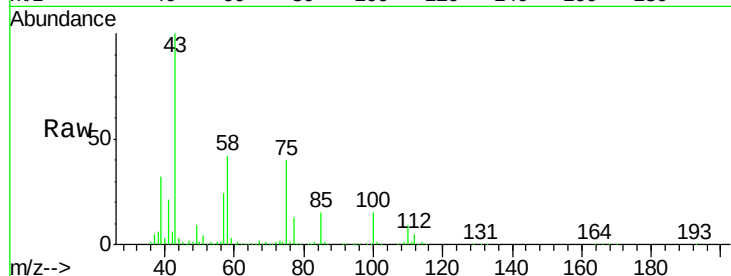
VSTDIC100

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

800000

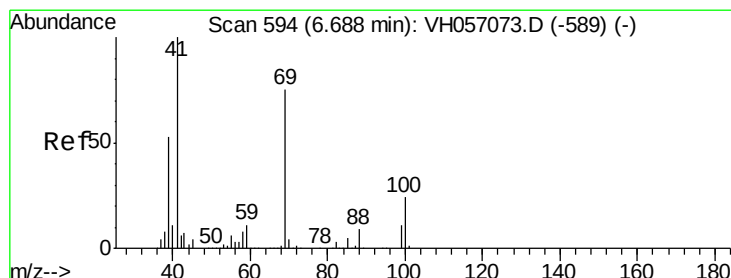
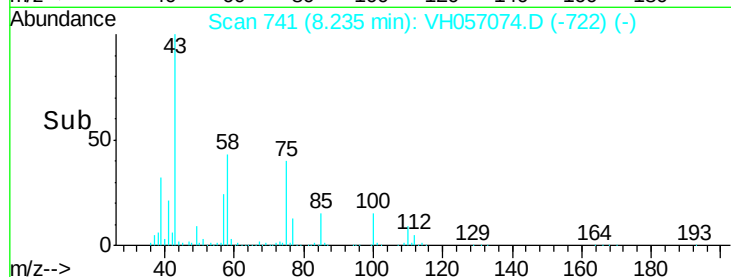
600000

400000

200000

0

Time-->



#52

Methyl Methacrylate

Concen: 103.01 ug/l

RT: 6.69 min Scan# 594

Delta R.T. -0.00 min

Lab File: VH057074.D

Acq: 17 Sep 2015 19:56

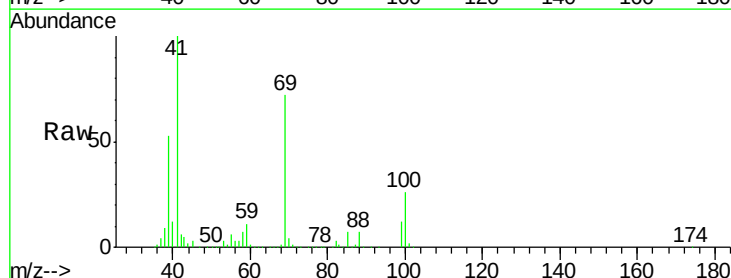
Tgt Ion: 69 Resp: 1249278

Ion Ratio Lower Upper

69 100

41 138.0 70.0 209.8

39 73.8 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

800000

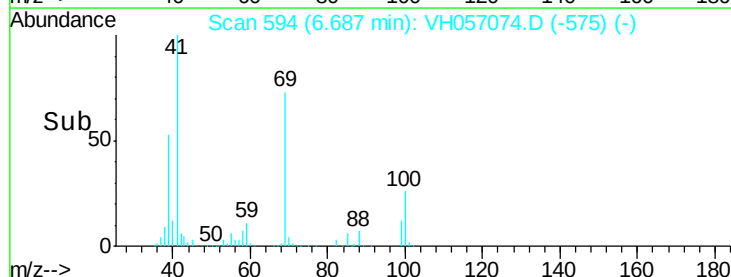
600000

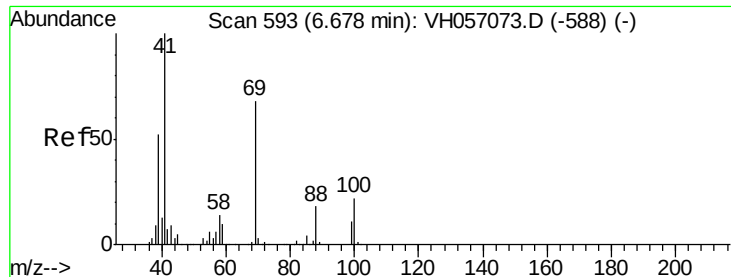
400000

200000

0

Time-->





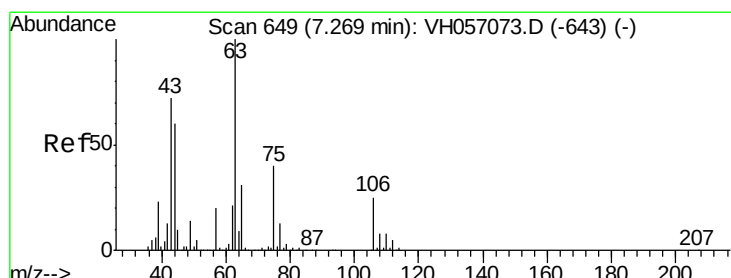
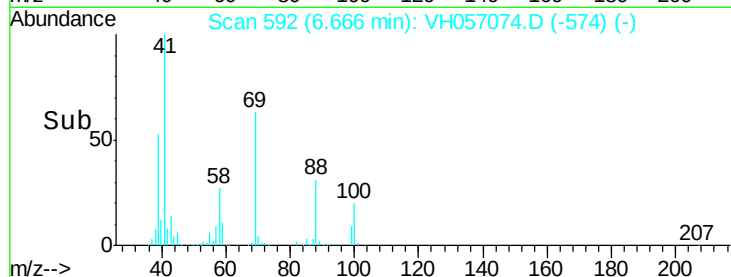
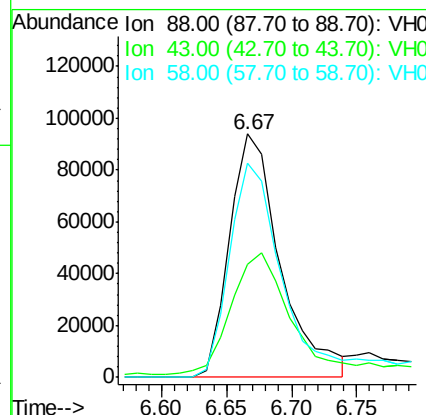
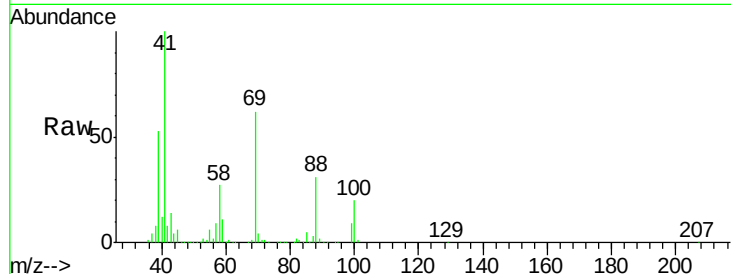
#53
1,4-Dioxane
Concen: 2139.72 ug/l
RT: 6.67 min Scan# 592
Delta R.T. -0.01 min
Lab File: VH057074.D
Acq: 17 Sep 2015 19:56

Instrument :
MSVOA_H
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Resp	Lower	Upper
88	100	254721		
43	46.4		39.6	59.4
58	88.0		61.4	92.2

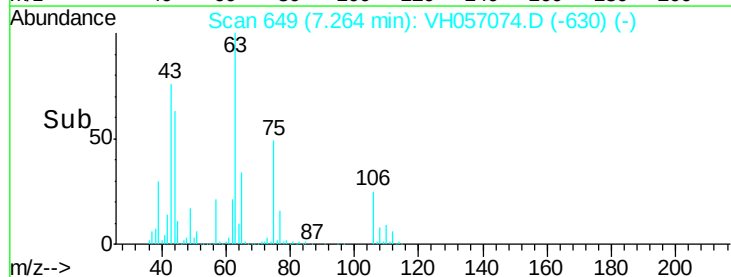
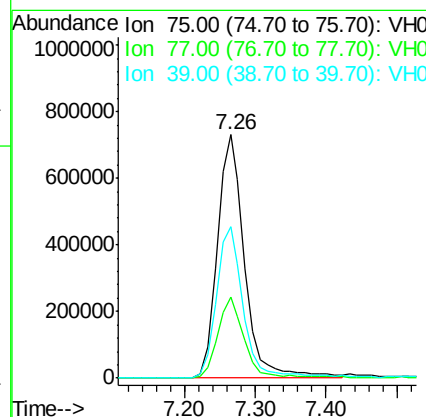
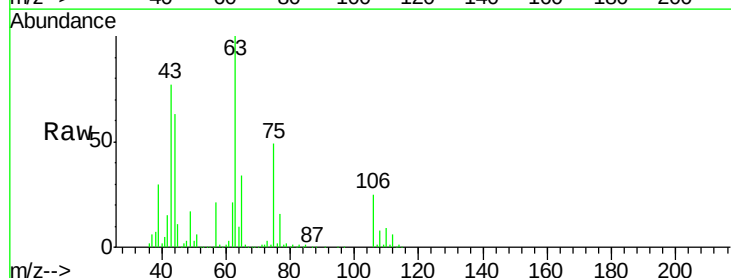
Manual Integrations
APPROVED

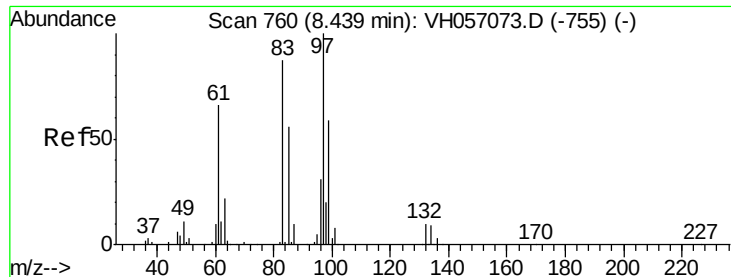
MMDadoda
9/18/2015 3:41:13 PM



#54
cis-1,3-Dichloropropene
Concen: 100.97 ug/l
RT: 7.26 min Scan# 649
Delta R.T. -0.00 min
Lab File: VH057074.D
Acq: 17 Sep 2015 19:56

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	1957134		
77	33.4		25.2	37.8
39	62.3		50.7	76.1





#55

1,1,2-Trichloroethane

Concen: 108.50 ug/l

RT: 8.45 min Scan# 761

Delta R.T. 0.01 min

Lab File: VH057074.D

Acq: 17 Sep 2015 19:56

Instrument :

MSVOA_H

ClientSampleId :

VSTDIC100

Tot Ion: 97 Resp: 1056389

Ion Ratio Lower Upper

97 100

83 90.0 72.7 109.1

85 60.3 45.5 68.3

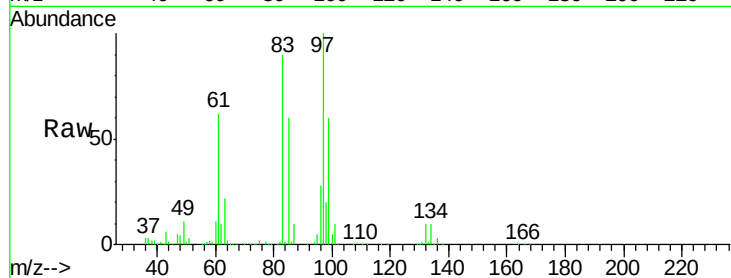
99 60.1 46.2 69.2

Manual Integrations

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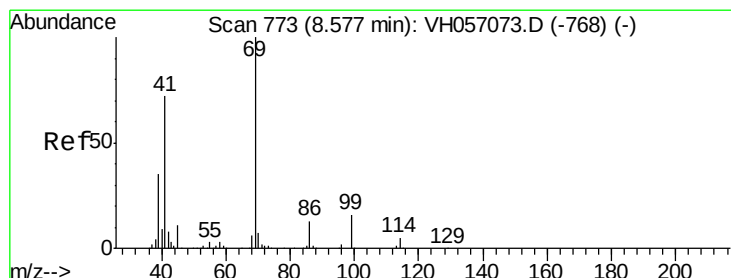
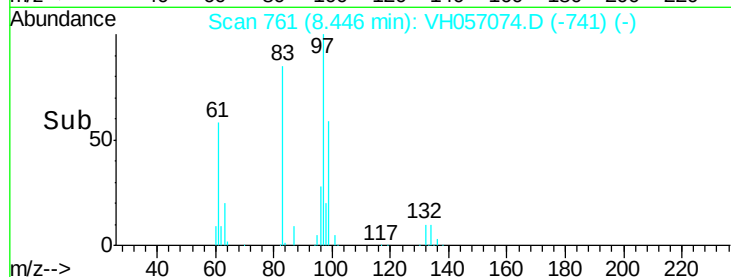
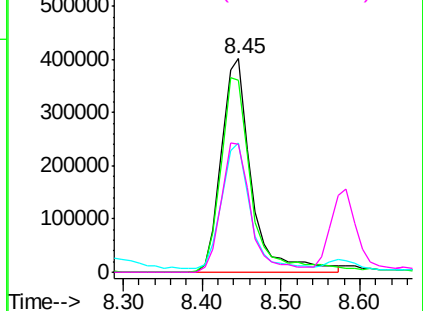


Abundance Ion 97.00 (96.70 to 97.70): VH0

Ion 82.95 (82.65 to 83.65): VH0

Ion 84.95 (84.65 to 85.65): VH0

Ion 98.95 (98.65 to 99.65): VH0



#56

Ethyl Methacrylate

Concen: 107.97 ug/l

RT: 8.57 min Scan# 773

Delta R.T. -0.00 min

Lab File: VH057074.D

Acq: 17 Sep 2015 19:56

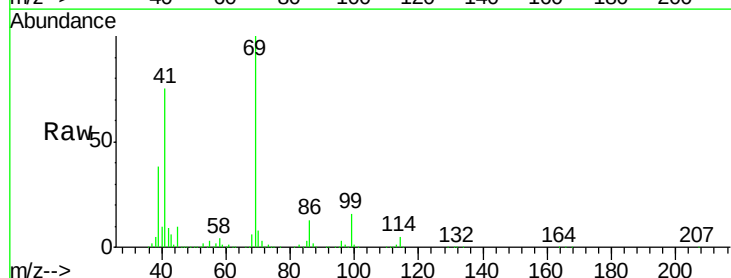
Tgt Ion: 69 Resp: 2180326

Ion Ratio Lower Upper

69 100

41 75.5 39.1 117.3

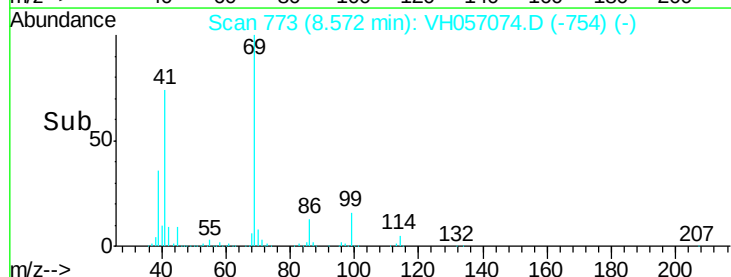
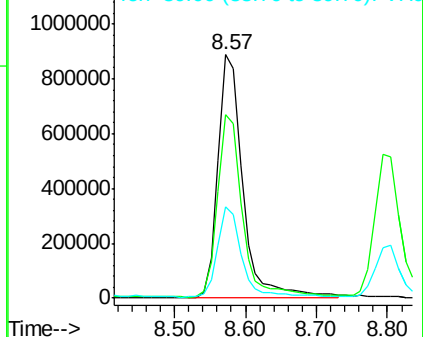
39 37.7 19.2 57.6

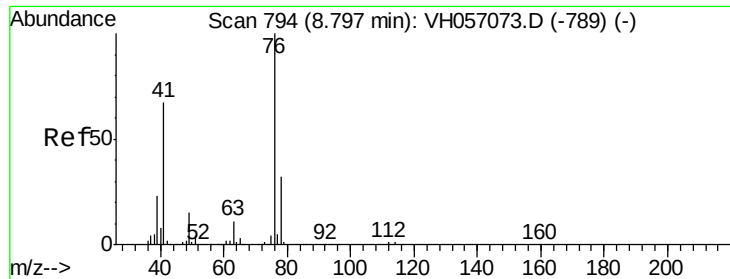


Abundance Ion 69.00 (68.70 to 69.70): VH0

Ion 41.00 (40.70 to 41.70): VH0

Ion 39.00 (38.70 to 39.70): VH0





#57

1,3-Dichloropropane

Concen: 105.50 ug/l

RT: 8.80 min Scan# 795

Delta R.T. 0.01 min

Lab File: VH057074.D

Acq: 17 Sep 2015 19:56

Tot Ion: 76 Resp: 2154492

Ion Ratio Lower Upper

76 100

78 31.7 25.7 38.5

Instrument :

MSVOA_H

ClientSampleId :

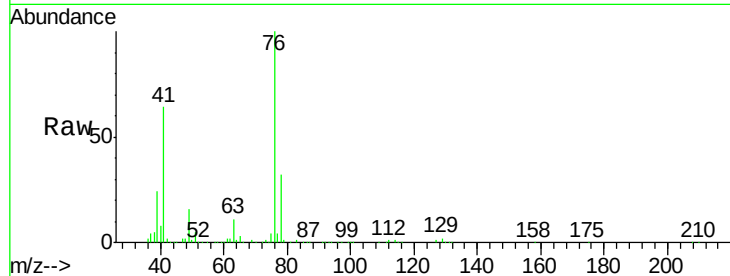
VSTDIC100

Manual Integrations

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Abundance Ion 76.00 (75.70 to 76.70): VH0

Ion 78.00 (77.70 to 78.70): VH0

8.80

800000

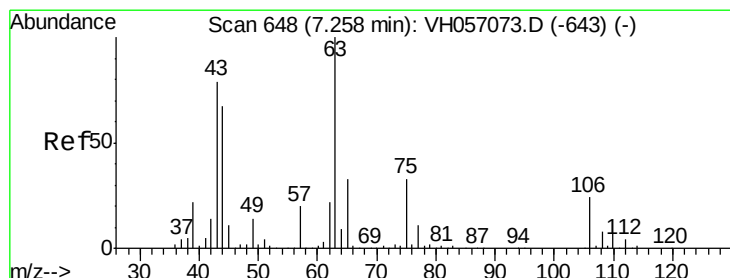
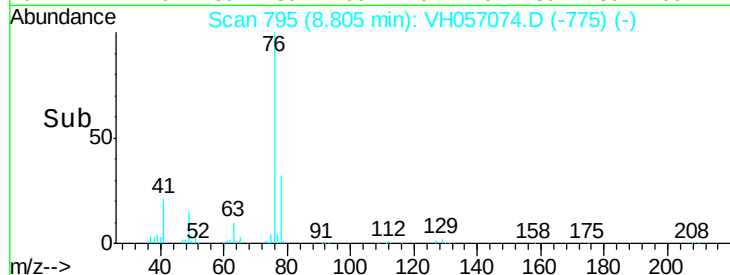
600000

400000

200000

0

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 228.33 ug/l

RT: 7.26 min Scan# 649

Delta R.T. 0.01 min

Lab File: VH057074.D

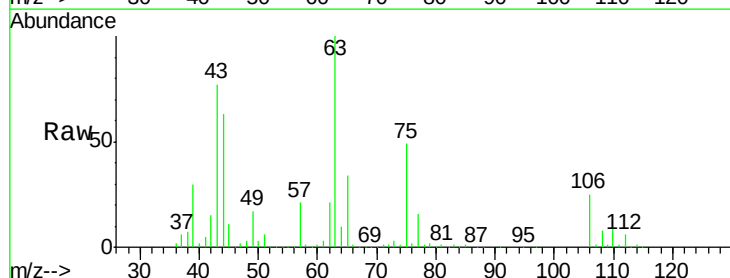
Acq: 17 Sep 2015 19:56

Tgt Ion: 63 Resp: 3958601

Ion Ratio Lower Upper

63 100

106 25.5 18.0 27.0



Abundance Ion 63.00 (62.70 to 63.70): VH0

Ion 106.00 (105.70 to 106.70): V

7.26

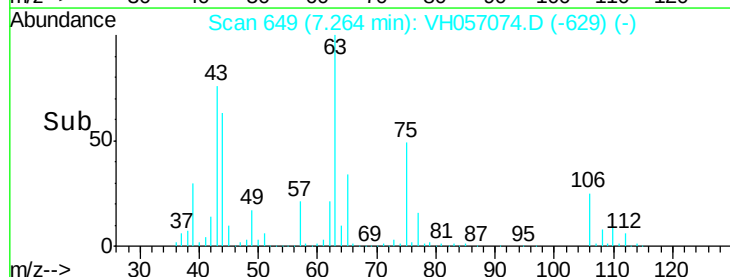
1500000

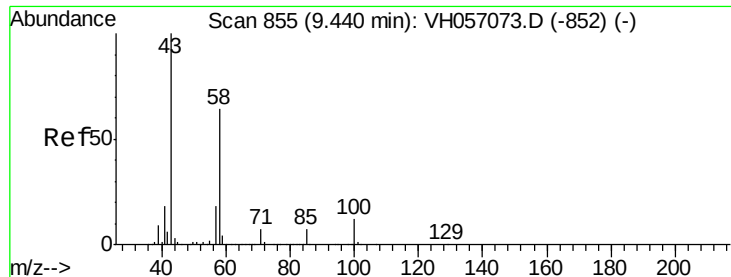
1000000

500000

0

Time-->





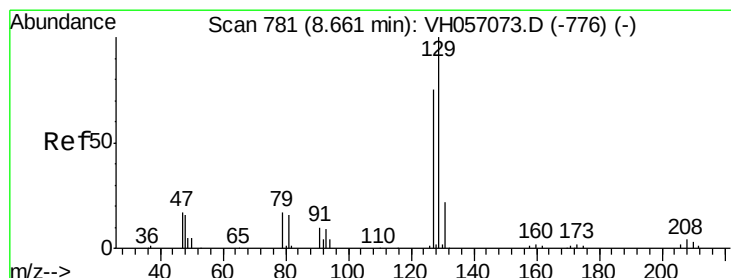
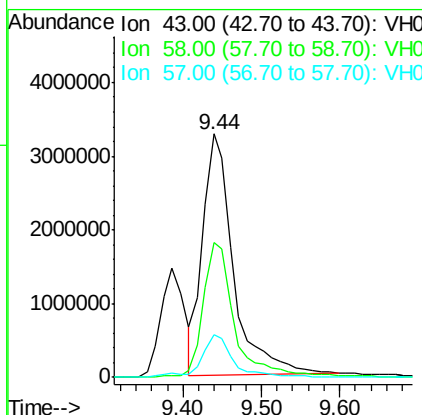
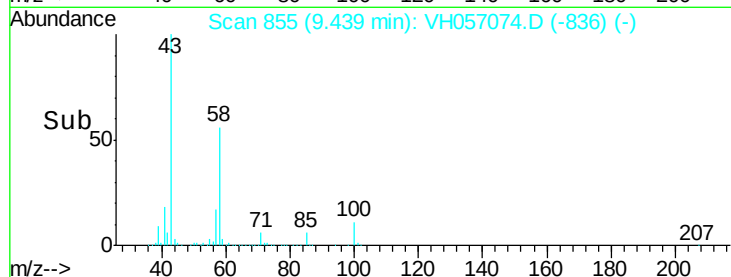
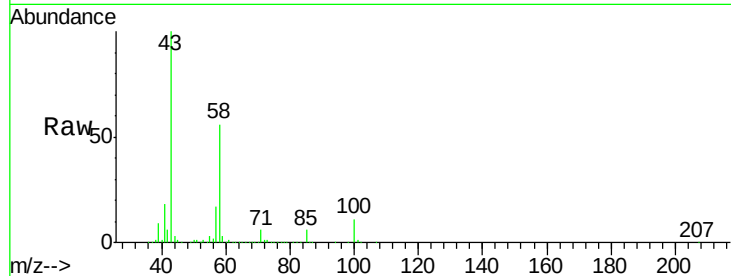
#59
2-Hexanone
Concen: 493.15 ug/l
RT: 9.44 min Scan# 855
Delta R.T. -0.00 min
Lab File: VH057074.D
Acq: 17 Sep 2015 19:56

Instrument :
MSVOA_H
ClientSampleId :
VSTDIC100

Tot Ion: 43 Resp: 8871201
Ion Ratio Lower Upper
43 100
58 55.6 27.1 81.2
57 17.4 8.1 24.3

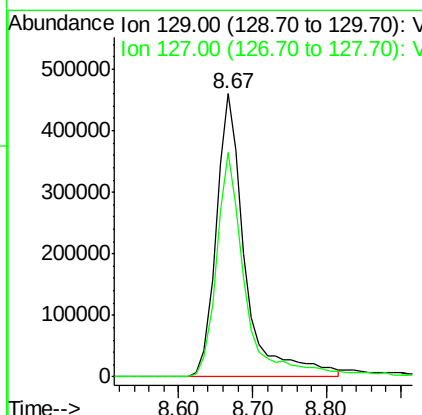
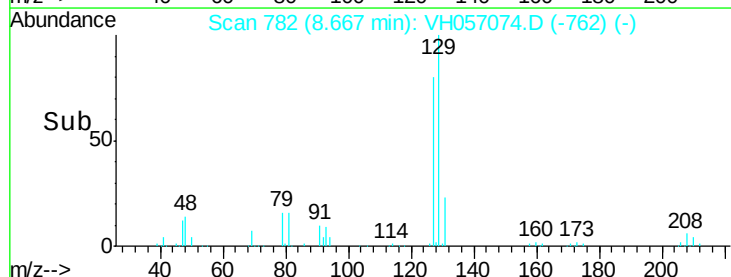
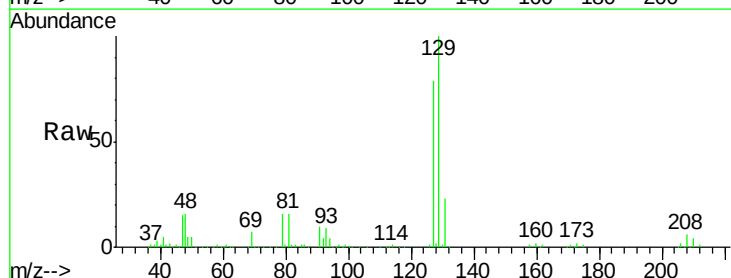
Manual Integrations
APPROVED

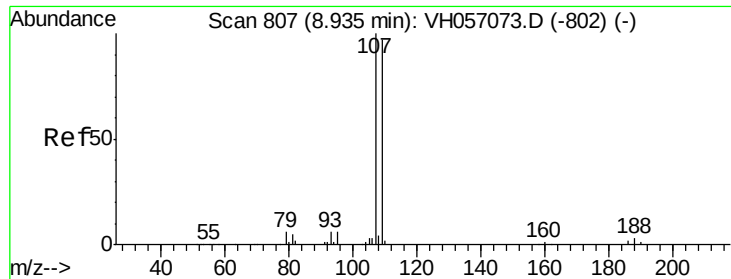
MMDadoda
9/18/2015 3:41:13 PM



#60
Dibromochloromethane
Concen: 112.26 ug/l
RT: 8.67 min Scan# 782
Delta R.T. 0.01 min
Lab File: VH057074.D
Acq: 17 Sep 2015 19:56

Tgt Ion: 129 Resp: 1240567
Ion Ratio Lower Upper
129 100
127 79.4 38.5 115.3





#61

1,2-Dibromoethane

Concen: 113.40 ug/l

RT: 8.93 min Scan# 807

Delta R.T. -0.00 min

Lab File: VH057074.D

Acq: 17 Sep 2015 19:56

Instrument :

MSVOA_H

ClientSampleId :

VSTDIC100

Tot Ion:107 Resp: 1293076

Ion Ratio Lower Upper

107 100

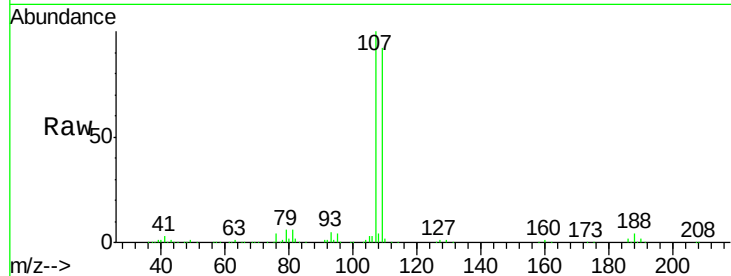
109 92.2 77.7 116.5

Manual Integrations

APPROVED

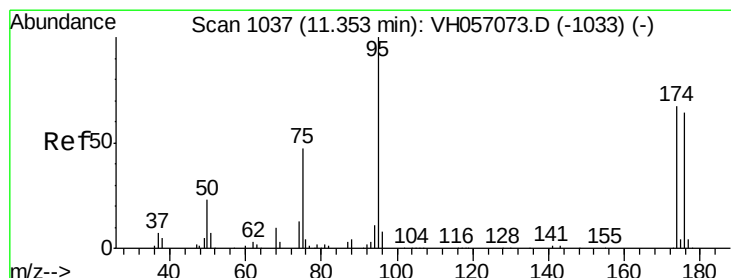
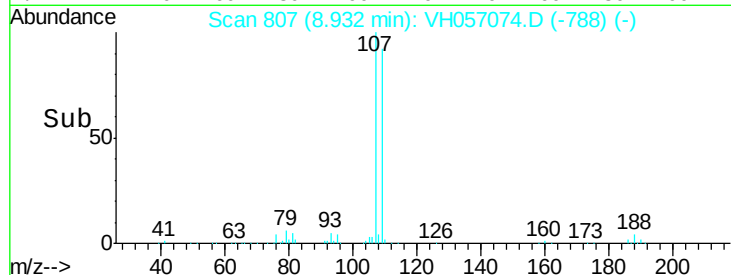
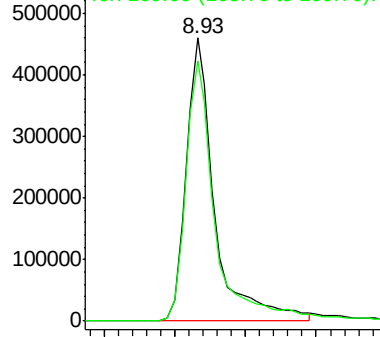
MMDadoda

9/18/2015 3:41:13 PM



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 101.73 ug/l

RT: 11.36 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VH057074.D

Acq: 17 Sep 2015 19:56

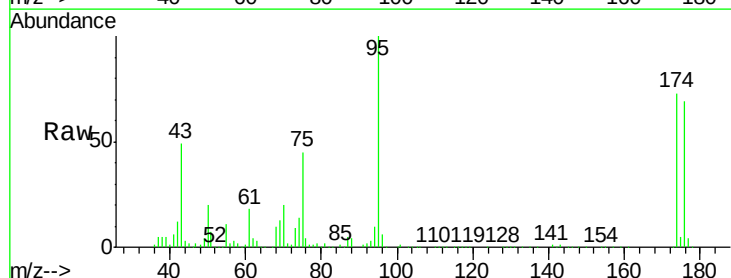
Tgt Ion: 95 Resp: 1034194

Ion Ratio Lower Upper

95 100

174 72.6 58.4 87.6

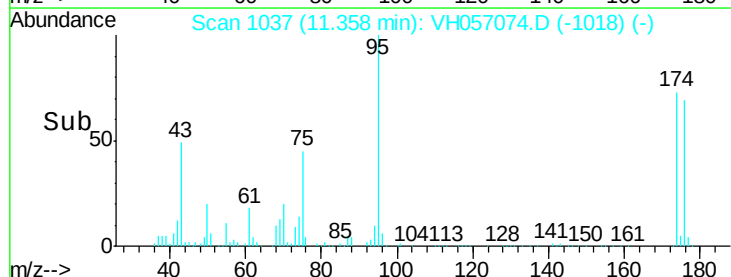
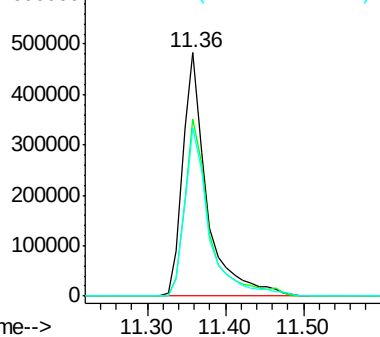
176 69.0 54.3 81.5

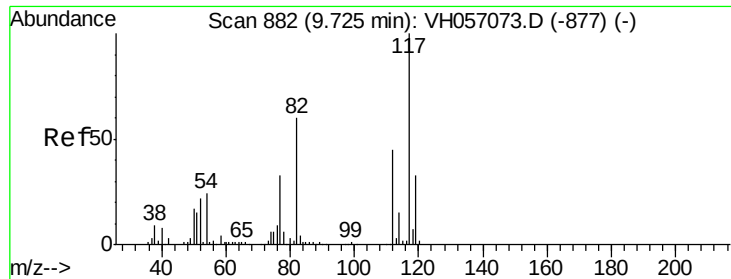


Abundance Ion 95.00 (94.70 to 95.70): V

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V





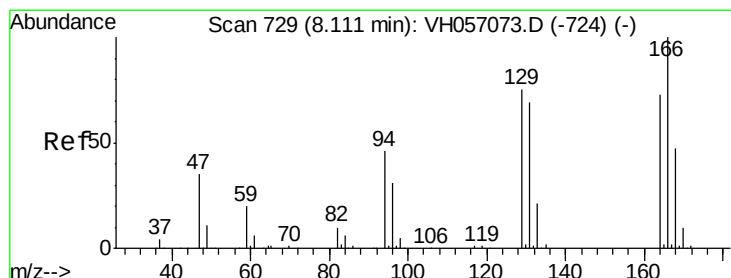
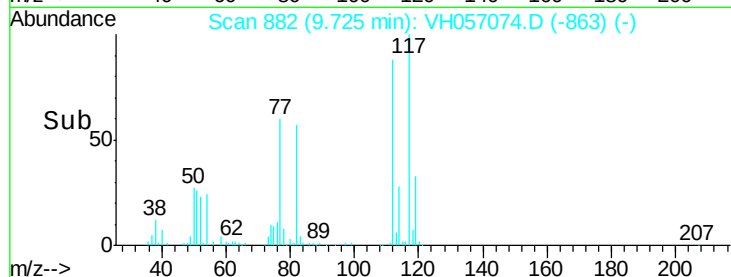
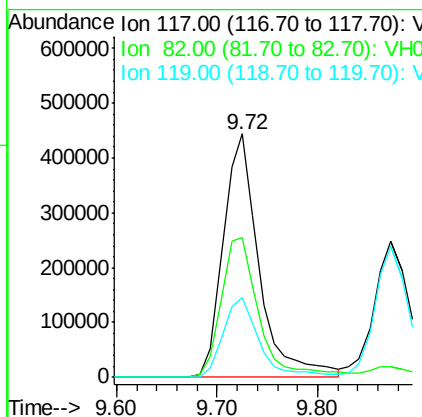
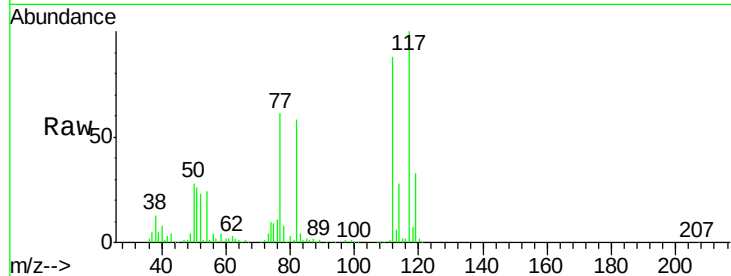
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.72 min Scan# 882
Delta R.T. -0.00 min
Lab File: VH057074.D
Acq: 17 Sep 2015 19:56

Instrument :
MSVOA_H
ClientSampleId :
VSTDICC100

Tot Ion:117 Resp: 1101522
Ion Ratio Lower Upper
117 100
82 57.5 51.0 76.6
119 32.7 26.7 40.1

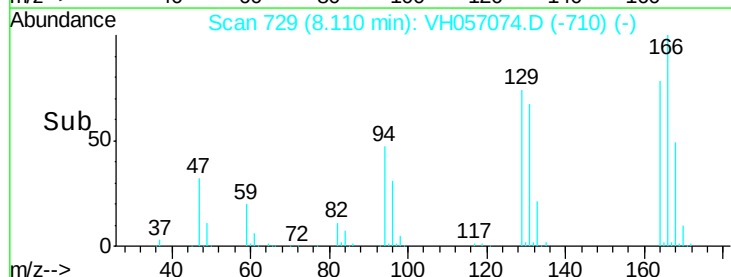
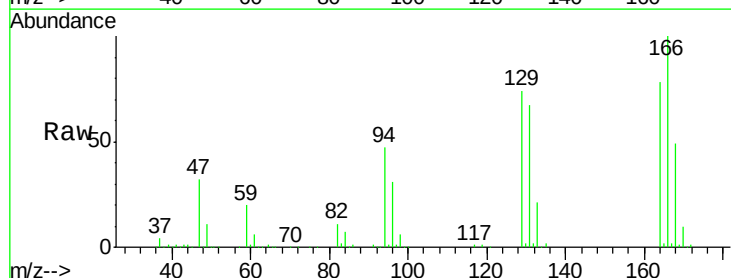
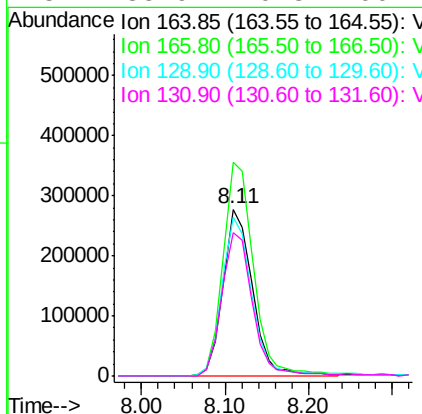
Manual Integrations
APPROVED

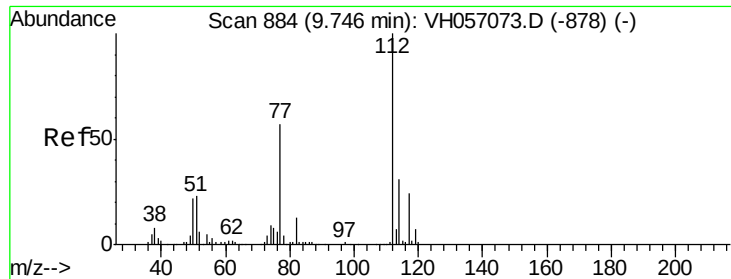
MMDadoda
9/18/2015 3:41:13 PM



#64
Tetrachloroethene
Concen: 108.18 ug/l
RT: 8.11 min Scan# 729
Delta R.T. -0.00 min
Lab File: VH057074.D
Acq: 17 Sep 2015 19:56

Tgt Ion:164 Resp: 671335
Ion Ratio Lower Upper
164 100
166 128.0 103.2 154.8
129 95.0 73.4 110.0
131 85.9 70.8 106.2





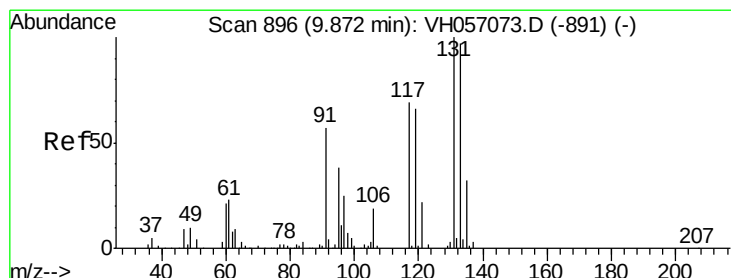
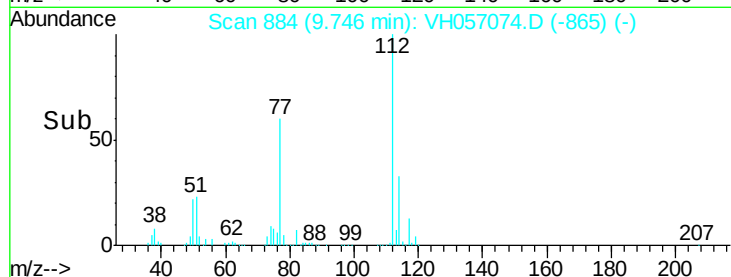
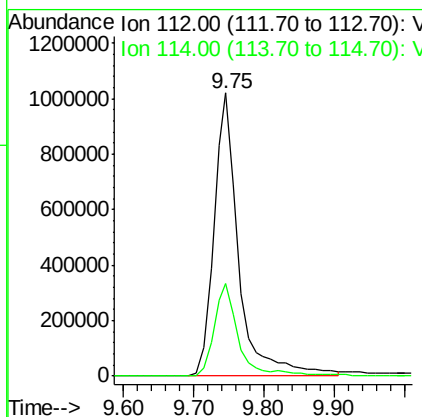
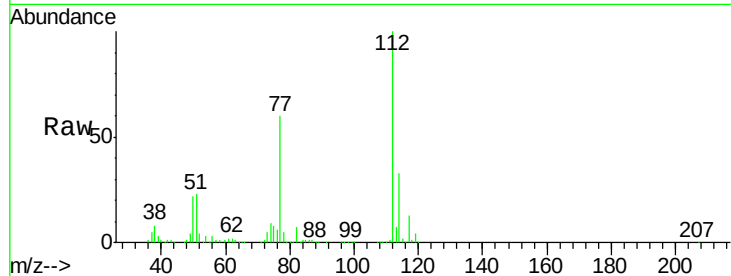
#65
Chlorobenzene
Concen: 109.15 ug/l
RT: 9.75 min Scan# 884
Delta R.T. 0.00 min
Lab File: VH057074.D
Acq: 17 Sep 2015 19:56

Instrument :
MSVOA_H
ClientSampleId :
VSTDIC100

Tot Ion:112 Resp: 2510084
Ion Ratio Lower Upper
112 100
114 32.7 26.3 39.5

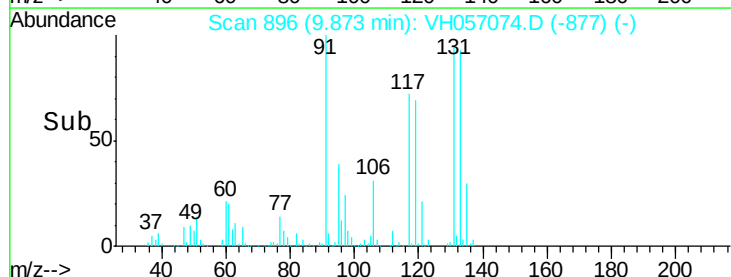
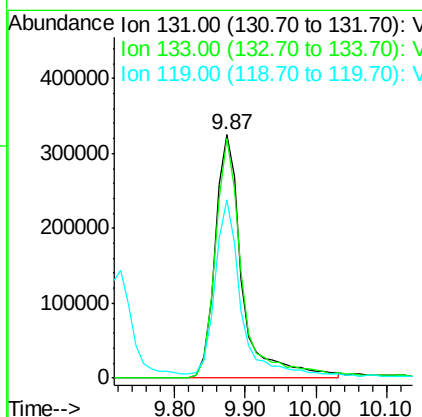
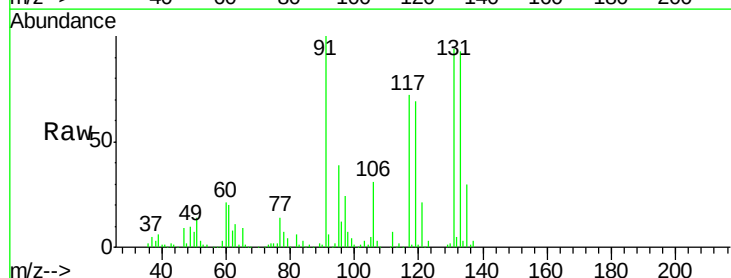
Manual Integrations
APPROVED

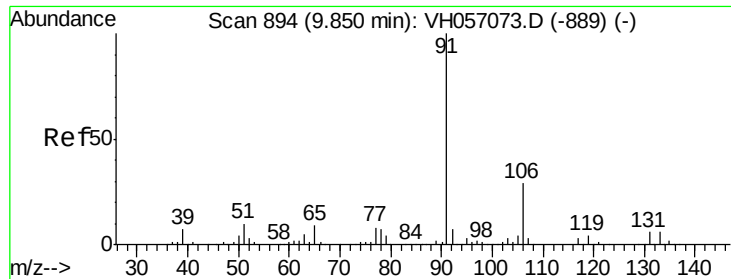
MMDadoda
9/18/2015 3:41:13 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 106.90 ug/l
RT: 9.87 min Scan# 896
Delta R.T. 0.00 min
Lab File: VH057074.D
Acq: 17 Sep 2015 19:56

Tgt Ion:131 Resp: 863288
Ion Ratio Lower Upper
131 100
133 98.7 51.1 153.3
119 73.2 36.3 108.9





#67

Ethyl Benzene

Concen: 108.20 ug/l

RT: 9.84 min Scan# 893

Delta R.T. -0.01 min

Lab File: VH057074.D

Acq: 17 Sep 2015 19:56

Instrument :

MSVOA_H

ClientSampleId :

VSTDIC100

Tot Ion:106 Resp: 1247413

Ion Ratio Lower Upper

106 100

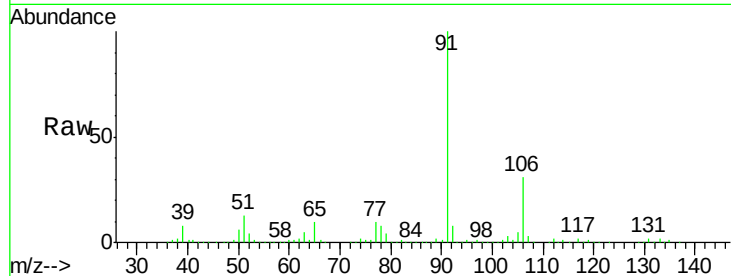
91 323.1 264.9 397.3

Manual Integrations

APPROVED

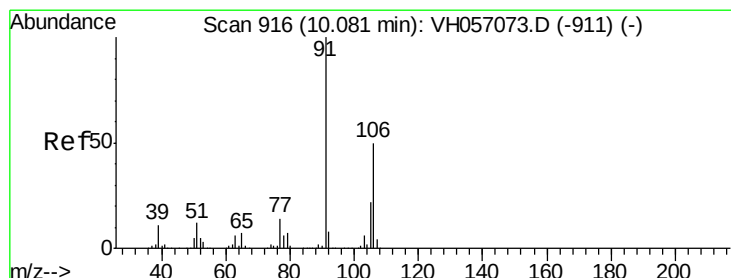
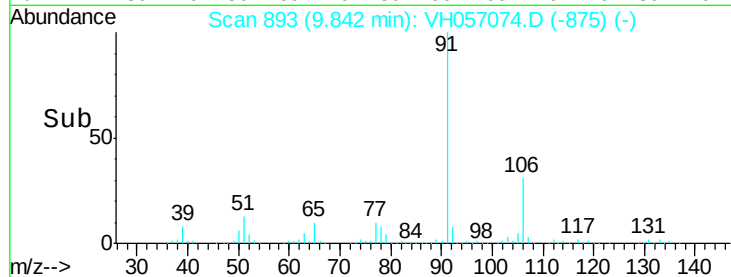
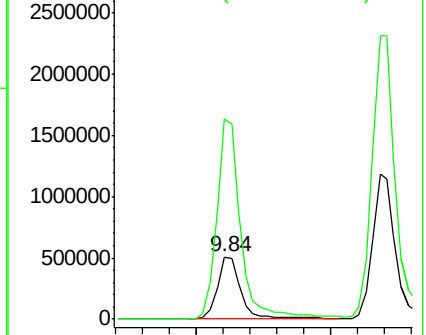
MMDadoda

9/18/2015 3:41:13 PM



Abundance Ion 106.05 (105.75 to 106.75): V

Ion 91.00 (90.70 to 91.70): VH0



#68

m/p-Xylenes

Concen: 209.16 ug/l

RT: 10.07 min Scan# 915

Delta R.T. -0.01 min

Lab File: VH057074.D

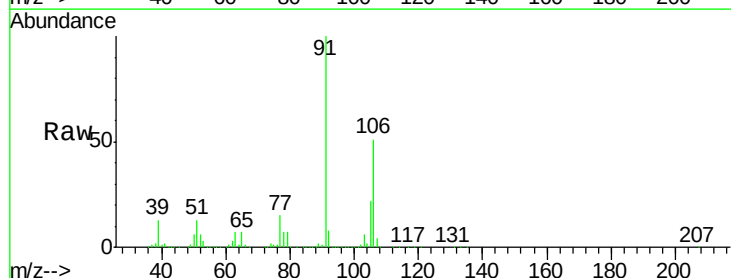
Acq: 17 Sep 2015 19:56

Tgt Ion:106 Resp: 2896740

Ion Ratio Lower Upper

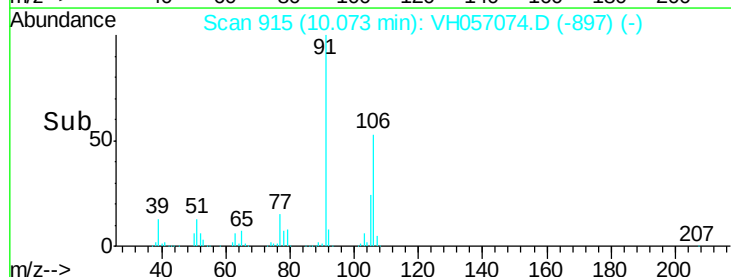
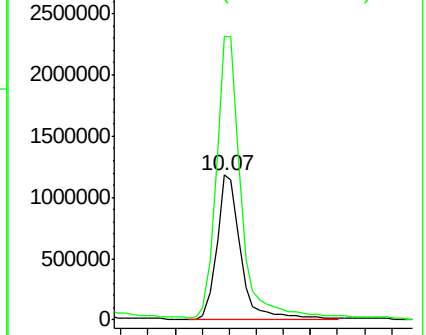
106 100

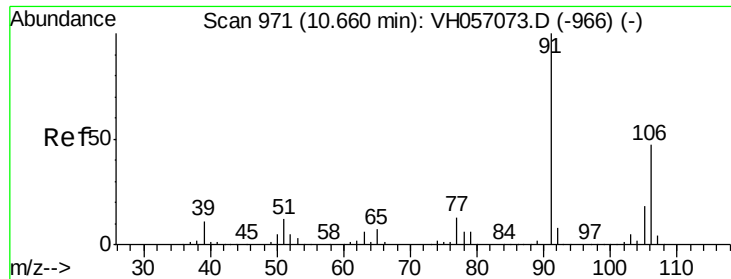
91 195.7 164.4 246.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VH0





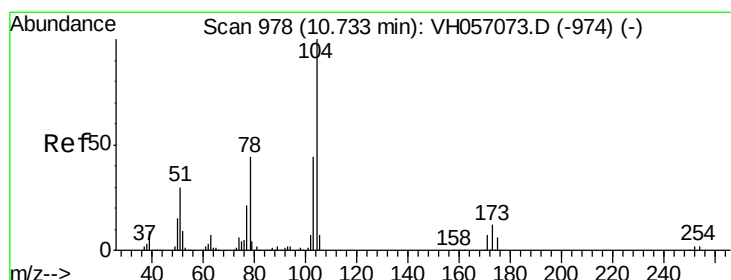
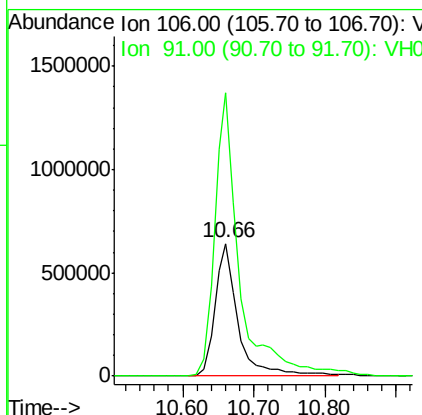
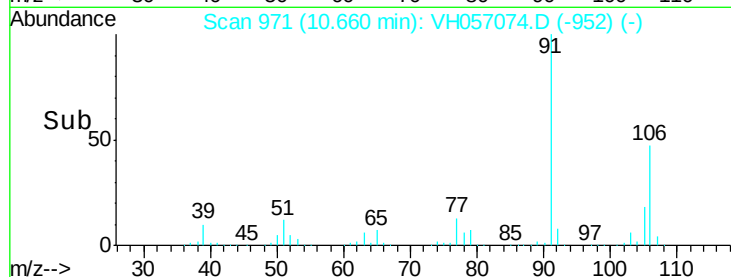
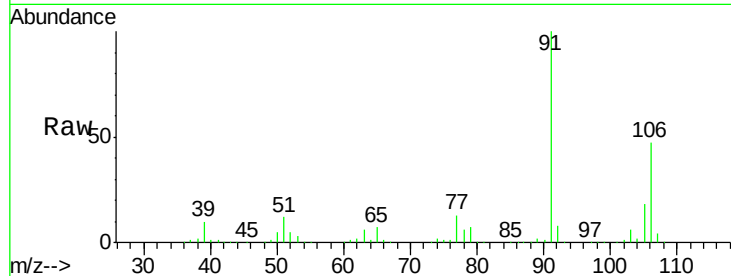
#69
o-Xylene
Concen: 108.95 ug/l
RT: 10.66 min Scan# 971
Delta R.T. 0.00 min
Lab File: VH057074.D
Acq: 17 Sep 2015 19:56

Instrument :
MSVOA_H
ClientSampleId :
VSTDIC100

Tot Ion:106 Resp: 1456314
Ion Ratio Lower Upper
106 100
91 213.5 104.2 312.6

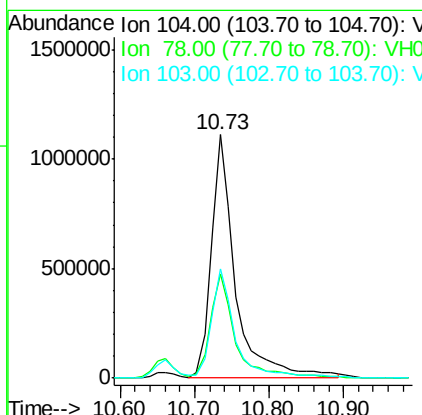
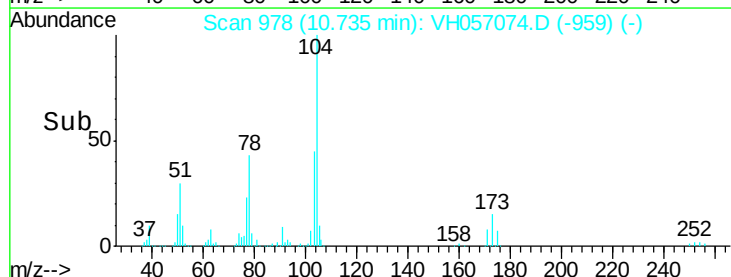
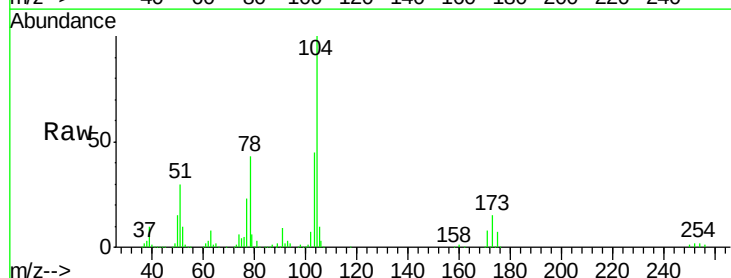
Manual Integrations
APPROVED

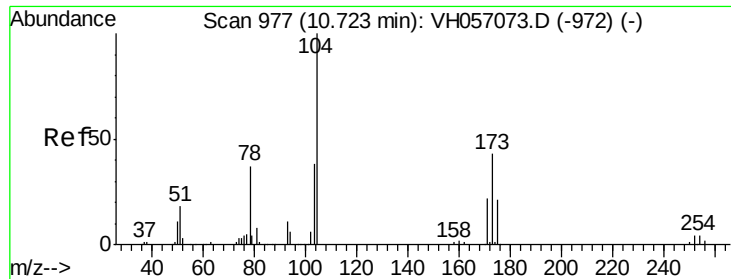
MMDadoda
9/18/2015 3:41:13 PM



#70
Styrene
Concen: 110.29 ug/l
RT: 10.73 min Scan# 978
Delta R.T. 0.00 min
Lab File: VH057074.D
Acq: 17 Sep 2015 19:56

Tgt Ion:104 Resp: 2484130
Ion Ratio Lower Upper
104 100
78 42.6 35.2 52.8
103 44.6 35.8 53.6





#71

Bromoform

Concen: 125.07 ug/l

RT: 10.71 min Scan# 976

Delta R.T. -0.01 min

Lab File: VH057074.D

Acq: 17 Sep 2015 19:56

Instrument :

MSVOA_H

ClientSampleId :

VSTDIC100

Tot Ion:173 Resp: 826766

Ion Ratio Lower Upper

173 100

175 47.2 23.3 69.9

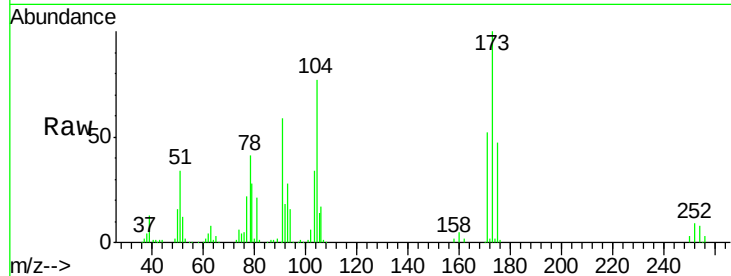
254 8.2 4.4 13.2

Manual Integrations

APPROVED

MMDadoda

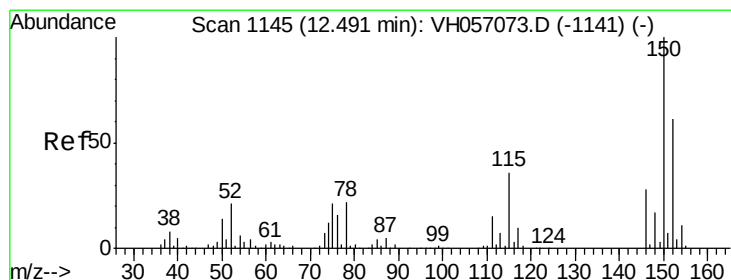
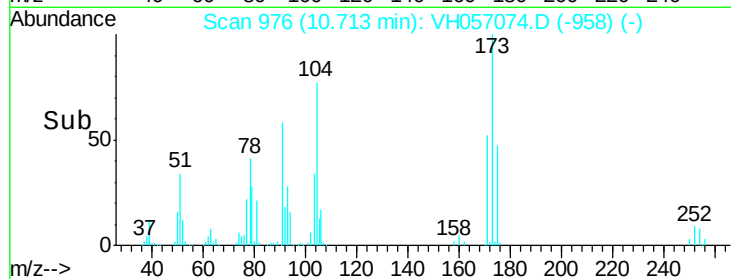
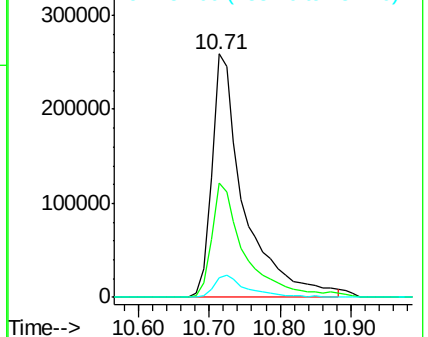
9/18/2015 3:41:13 PM



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# 1144

Delta R.T. 0.00 min

Lab File: VH057074.D

Acq: 17 Sep 2015 19:56

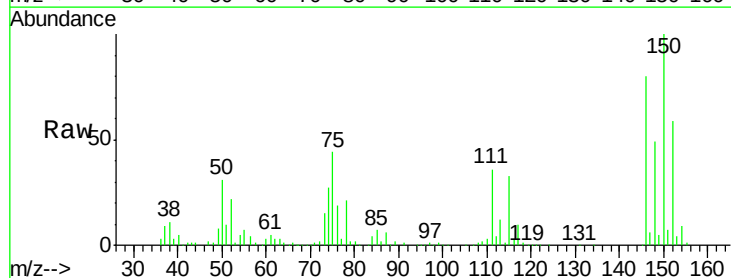
Tgt Ion:152 Resp: 327520

Ion Ratio Lower Upper

152 100

115 54.9 28.2 84.6

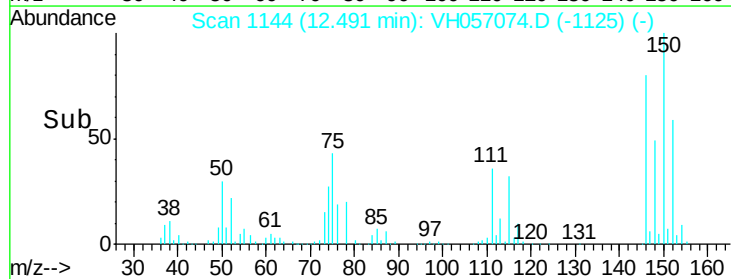
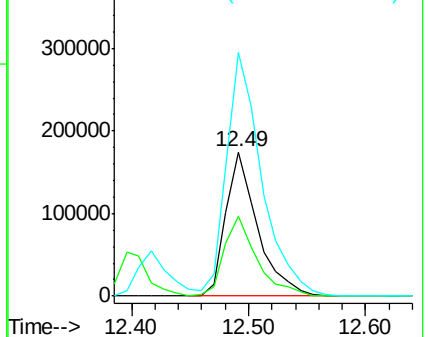
150 168.7 0.0 332.0

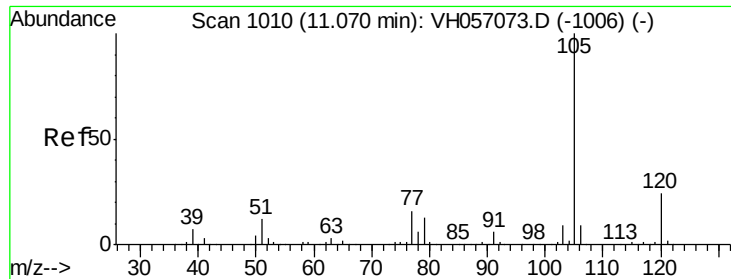


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 97.38 ug/l

RT: 11.07 min Scan# 1010

Delta R.T. 0.00 min

Lab File: VH057074.D

Acq: 17 Sep 2015 19:56

Instrument :

MSVOA_H

ClientSampleId :

VSTDIC100

Tot Ion:105 Resp: 2997341

Ion Ratio Lower Upper

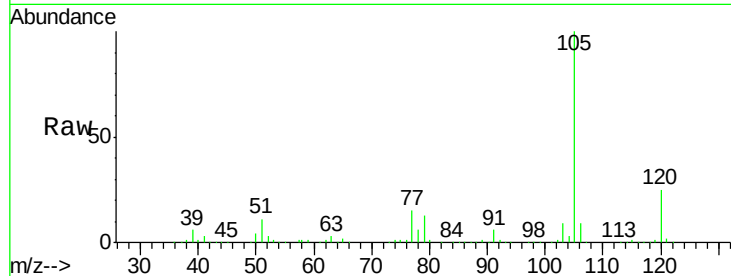
105 100

120 25.3 12.2 36.4

Manual Integrations
APPROVED

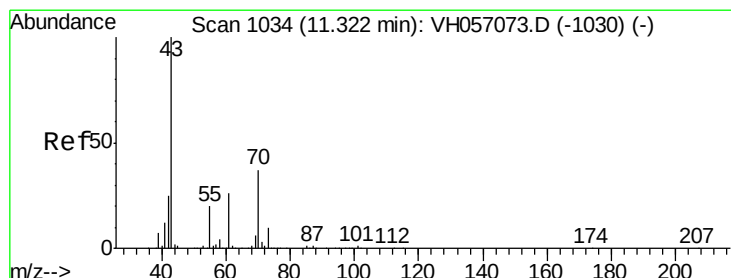
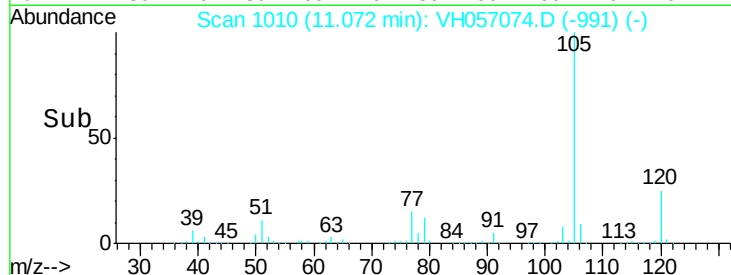
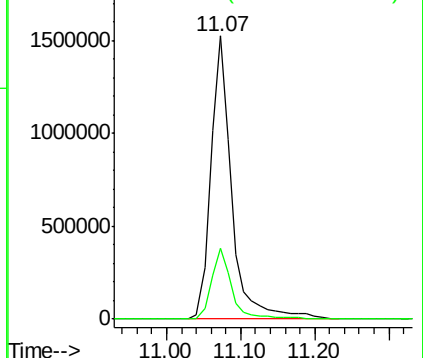
MMDadoda

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

n-Amyl Acetate

Concen: 97.95 ug/l

RT: 11.33 min Scan# 1034

Delta R.T. 0.00 min

Lab File: VH057074.D

Acq: 17 Sep 2015 19:56

Tgt Ion: 43 Resp: 3278667

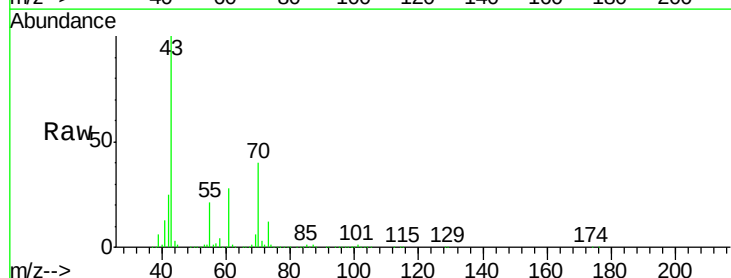
Ion Ratio Lower Upper

43 100

70 40.4 27.3 40.9

55 21.2 15.3 22.9

61 28.2 19.4 29.0

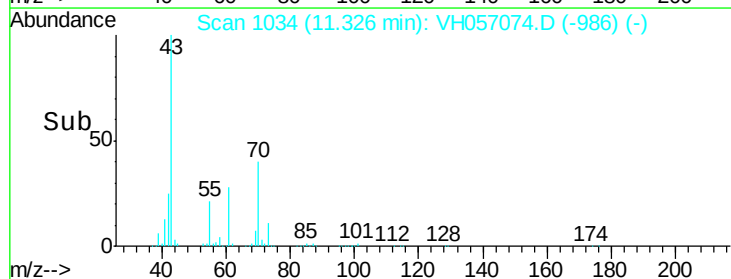
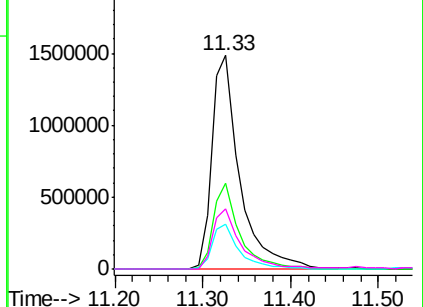


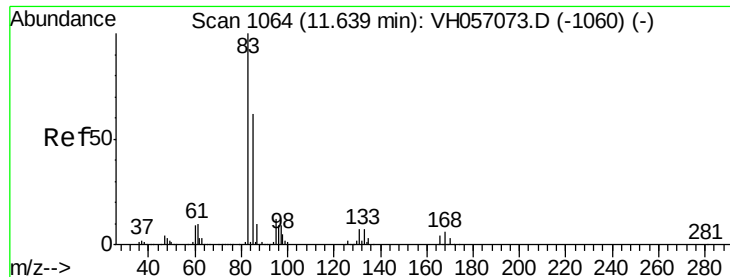
Abundance Ion 43.05 (42.75 to 43.75): V

Ion 70.05 (69.75 to 70.75): V

Ion 55.05 (54.75 to 55.75): V

Ion 61.00 (60.70 to 61.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: 101.76 ug/l

RT: 11.64 min Scan# 1064

Delta R.T. 0.01 min

Lab File: VH057074.D

Acq: 17 Sep 2015 19:56

Instrument :

MSVOA_H

ClientSampleId :

VSTDIC100

Tot Ion: 83 Resp: 1619214

Ion Ratio Lower Upper

83 100

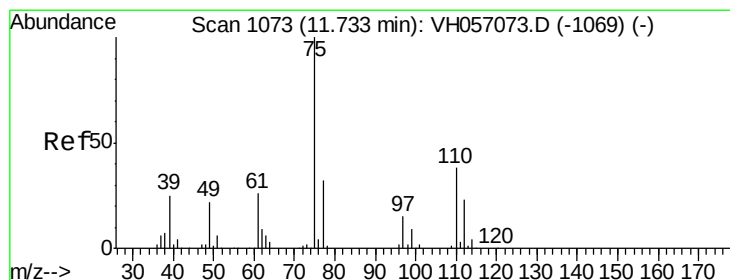
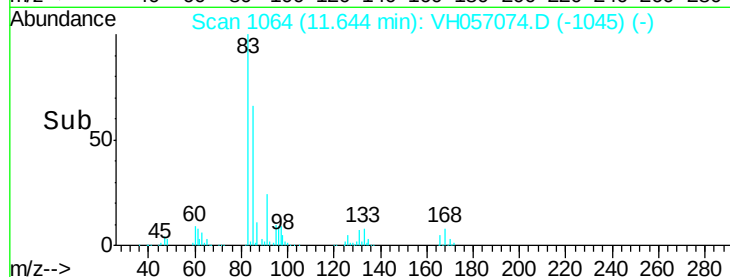
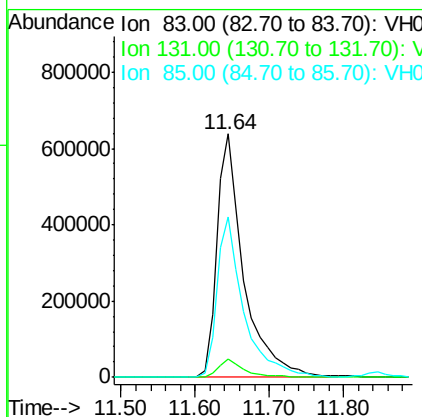
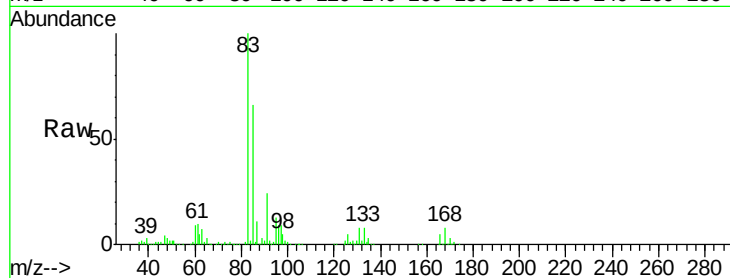
131 7.6 3.1 9.3

85 65.7 32.3 96.8

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 101.14 ug/l

RT: 11.74 min Scan# 1073

Delta R.T. 0.01 min

Lab File: VH057074.D

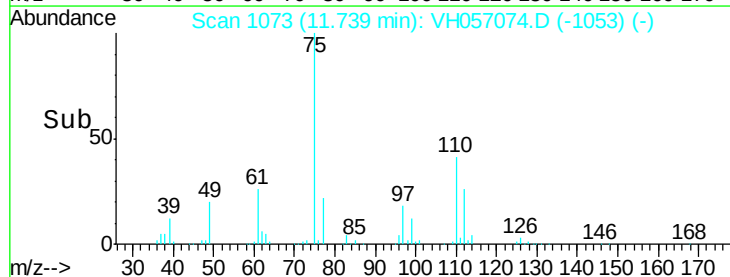
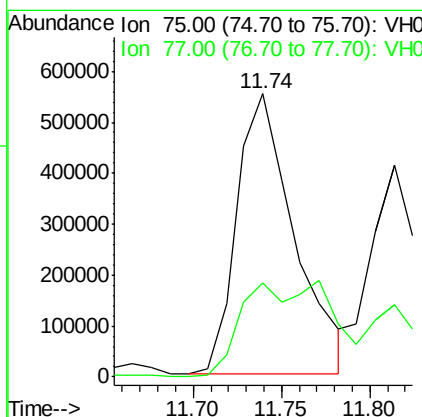
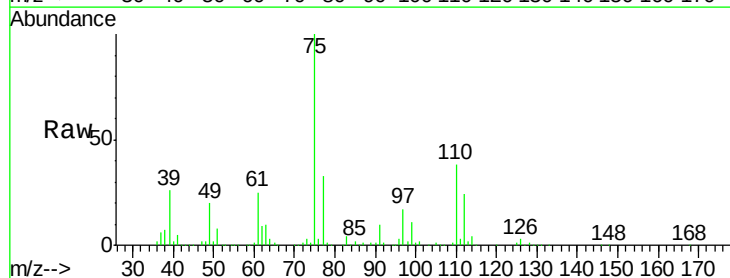
Acq: 17 Sep 2015 19:56

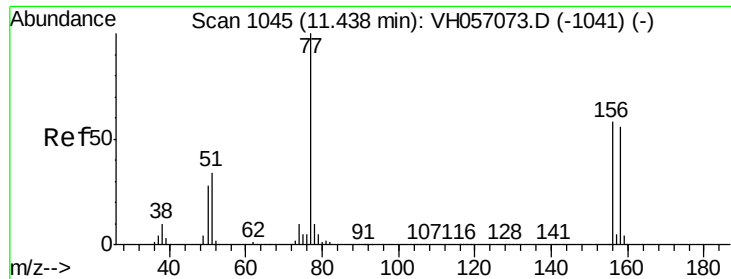
Tgt Ion: 75 Resp: 1252814

Ion Ratio Lower Upper

75 100

77 33.2 14.9 44.9





#77

Bromobenzene

Concen: 109.56 ug/l

RT: 11.44 min Scan# 1045

Delta R.T. 0.01 min

Lab File: VH057074.D

Acq: 17 Sep 2015 19:56

Instrument :

MSVOA_H

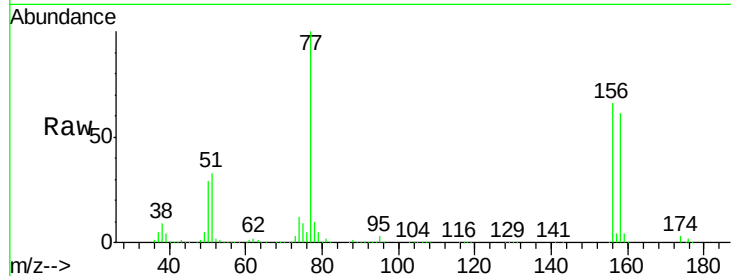
ClientSampleId :

VSTDIC100

Tot Ion	Ion	Ratio	Resp	Lower	Upper
156	100		909321		
77	152.6	73.5	220.5		
158	92.7	46.8	140.3		

Manual Integrations
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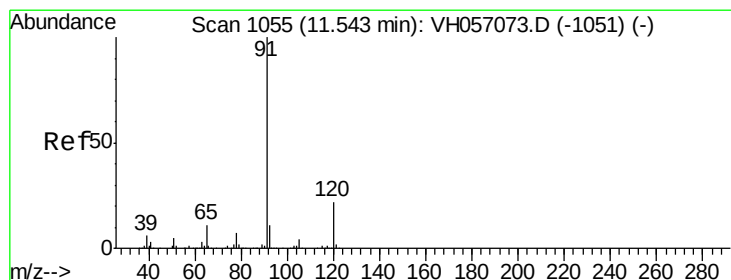
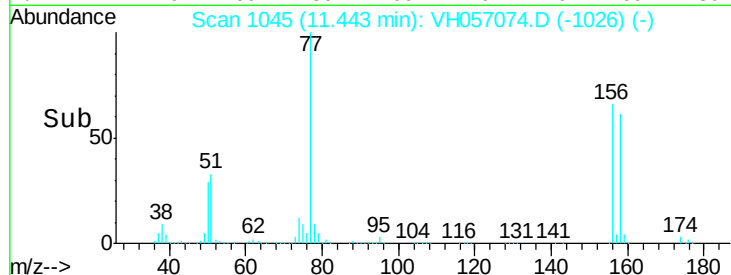
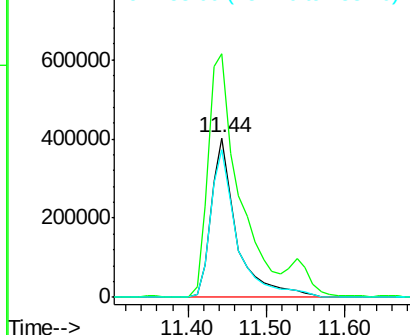


Abundance

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: 96.08 ug/l

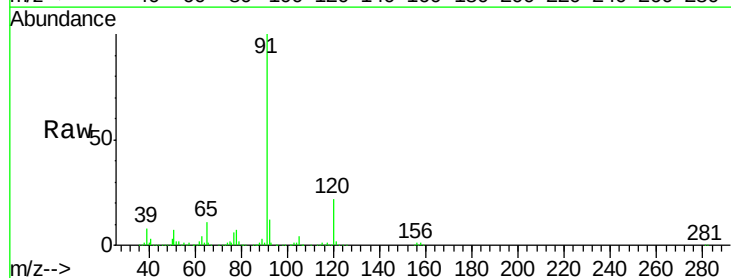
RT: 11.54 min Scan# 1054

Delta R.T. -0.00 min

Lab File: VH057074.D

Acq: 17 Sep 2015 19:56

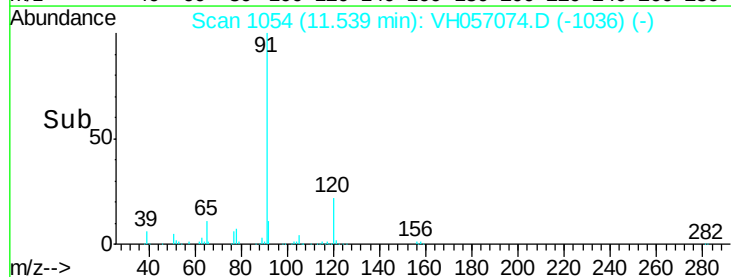
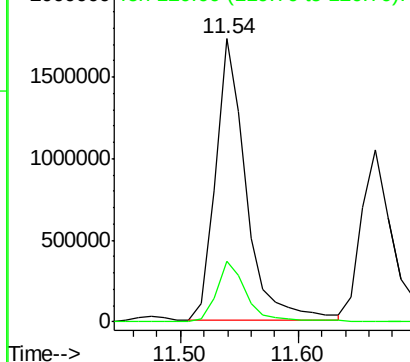
Tgt Ion	Ion	Ratio	Resp	Lower	Upper
91	100		3110347		
120	21.7	10.2	30.6		

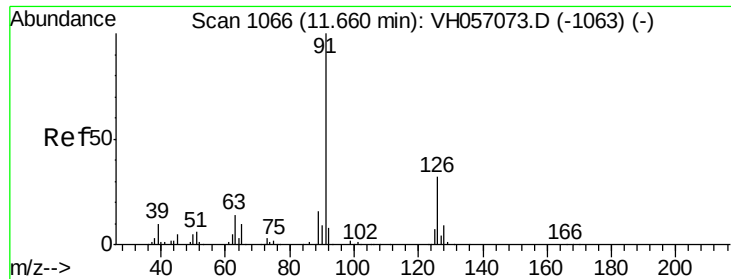


Abundance

Ion 91.00 (90.70 to 91.70): V

Ion 120.00 (119.70 to 120.70): V





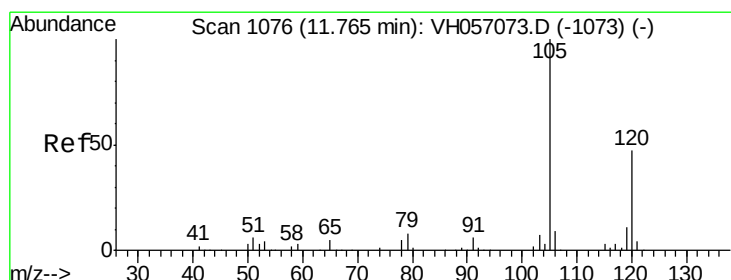
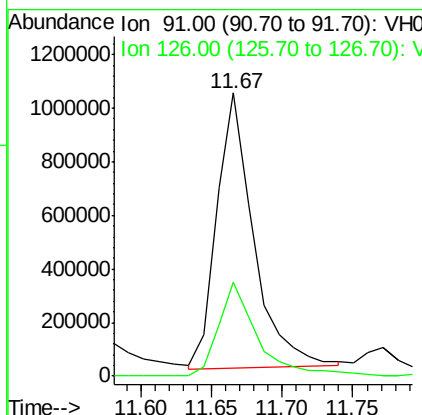
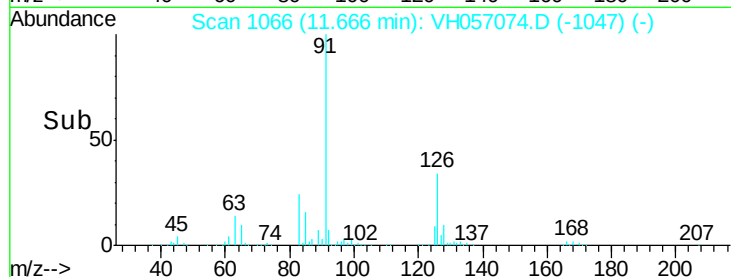
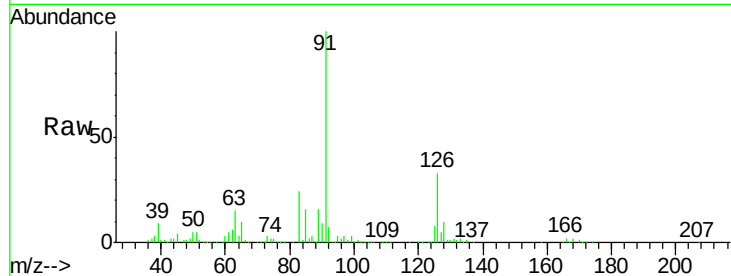
#79
2-Chlorotoluene
Concen: 94.57 ug/l
RT: 11.67 min Scan# 1066
Delta R.T. 0.01 min
Lab File: VH057074.D
Acq: 17 Sep 2015 19:56

Instrument :
MSVOA_H
ClientSampleId :
VSTDIC100

Tot Ion: 91 Resp: 1854684
Ion Ratio Lower Upper
91 100
126 33.0 16.3 48.9

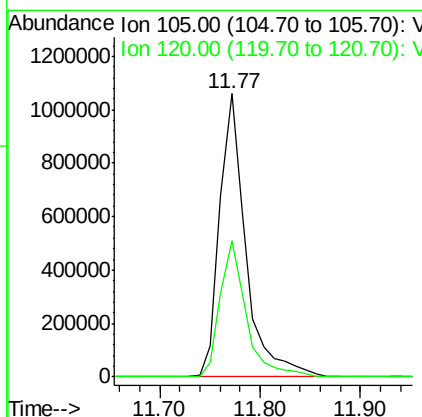
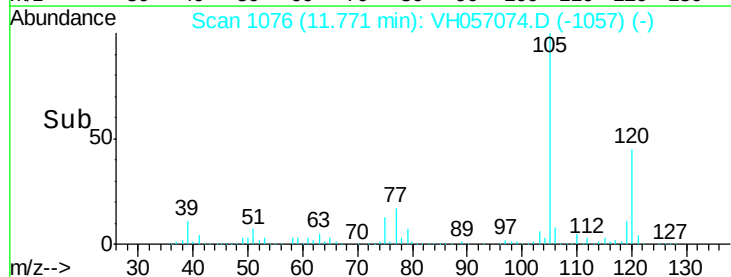
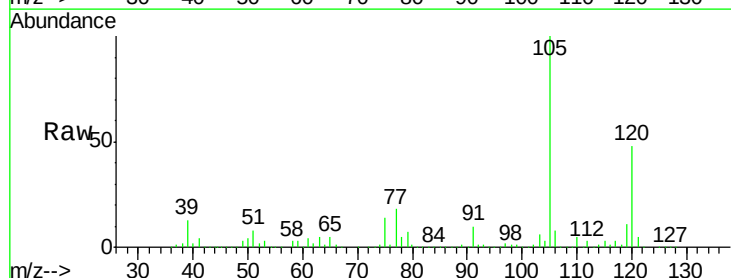
Manual Integrations
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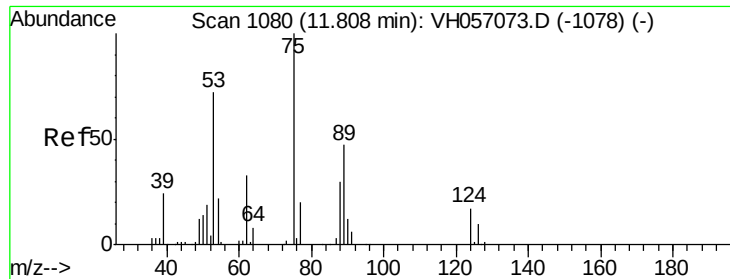
MMDadoda
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#80
1,3,5-Trimethylbenzene
Concen: 100.78 ug/l
RT: 11.77 min Scan# 1076
Delta R.T. 0.01 min
Lab File: VH057074.D
Acq: 17 Sep 2015 19:56

Tgt Ion:105 Resp: 1918897
Ion Ratio Lower Upper
105 100
120 48.3 23.6 71.0





#81

trans-1,4-Dichloro-2-Butene

Concen: 104.29 ug/l

RT: 11.81 min Scan# 1080

Delta R.T. 0.01 min

Lab File: VH057074.D

Acq: 17 Sep 2015 19:56

Instrument :

MSVOA_H

ClientSampleId :

VSTDIC100

Tot Ion: 75 Resp: 986472

Ion Ratio Lower Upper

75 100

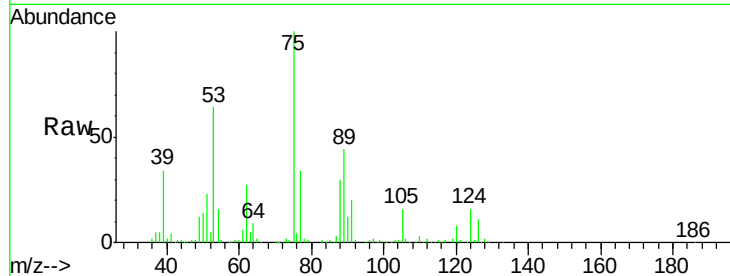
53 63.6 32.0 96.2

89 44.0 21.1 63.3

Manual Integrations
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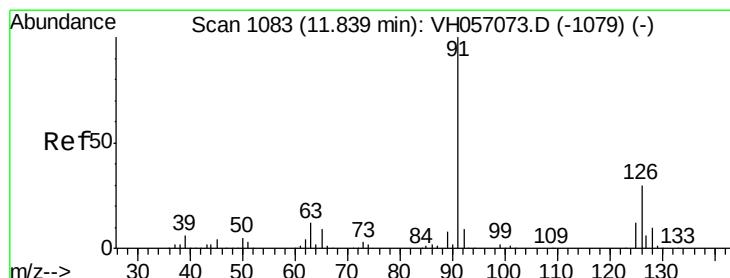
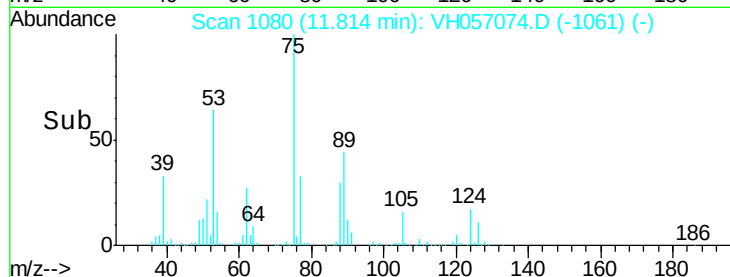
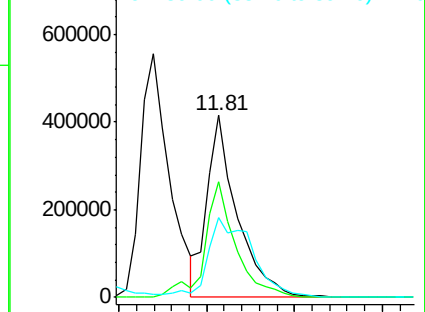
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Abundance Ion 75.00 (74.70 to 75.70): VH0

Ion 53.00 (52.70 to 53.70): VH0

Ion 89.00 (88.70 to 89.70): VH0



#82

4-Chlorotoluene

Concen: 98.37 ug/l

RT: 11.85 min Scan# 1083

Delta R.T. 0.01 min

Lab File: VH057074.D

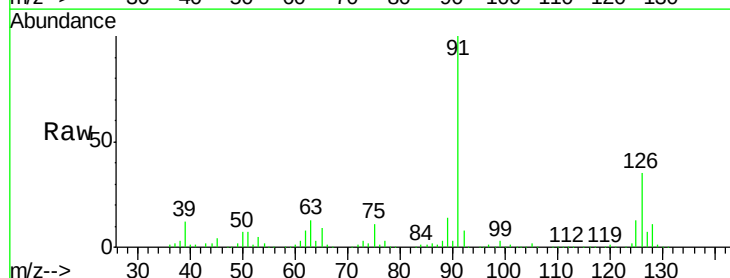
Acq: 17 Sep 2015 19:56

Tgt Ion: 91 Resp: 2305091

Ion Ratio Lower Upper

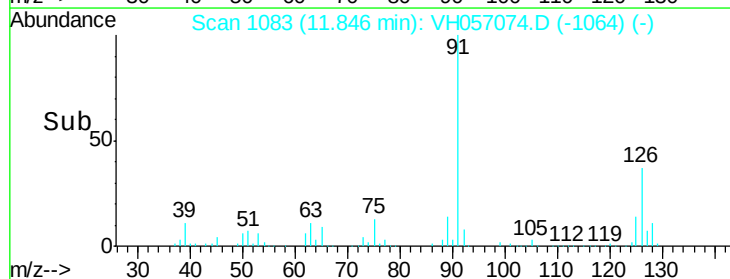
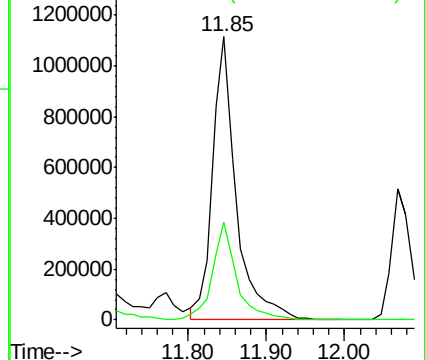
91 100

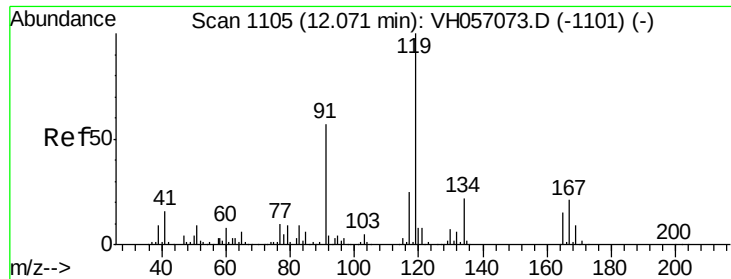
126 34.6 17.0 51.0



Abundance Ion 91.00 (90.70 to 91.70): VH0

Ion 126.00 (125.70 to 126.70): V





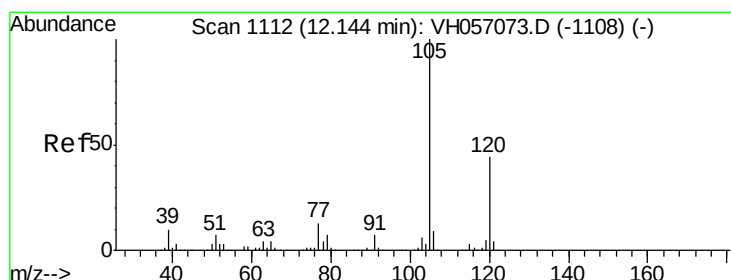
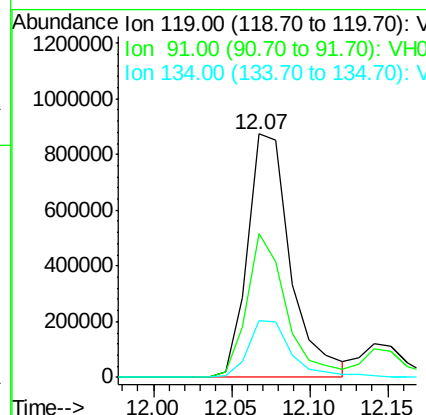
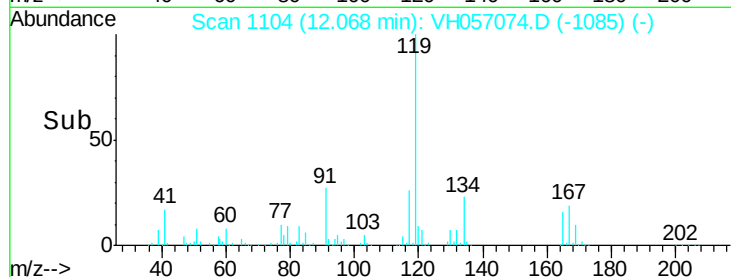
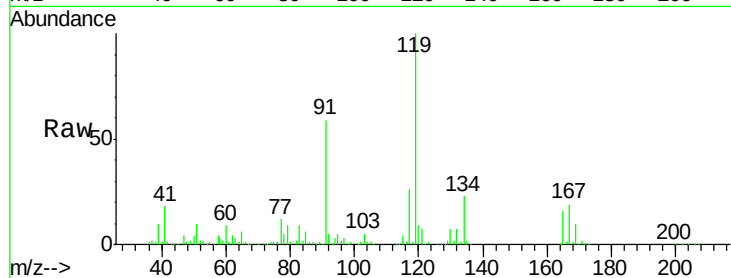
#83
 tert-Butylbenzene
 Concen: 93.81 ug/l
 RT: 12.07 min Scan# 1104
 Delta R.T. -0.00 min
 Lab File: VH057074.D
 Acq: 17 Sep 2015 19:56

Instrument :
 MSVOA_H
 ClientSampleId :
 VSTDIC100

Tot Ion:119 Resp: 1680261
 Ion Ratio Lower Upper
 119 100
 91 59.1 28.5 85.6
 134 23.2 11.5 34.5

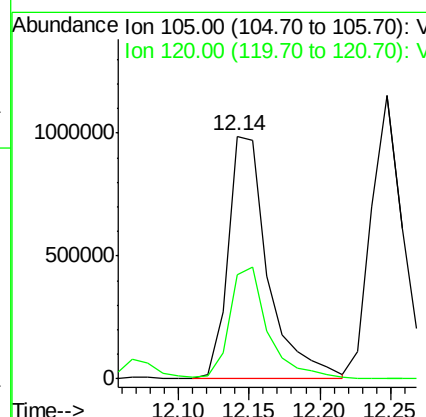
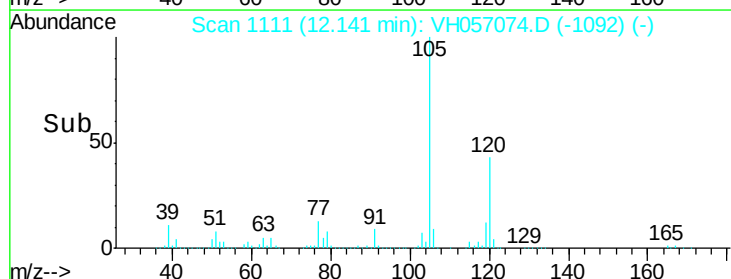
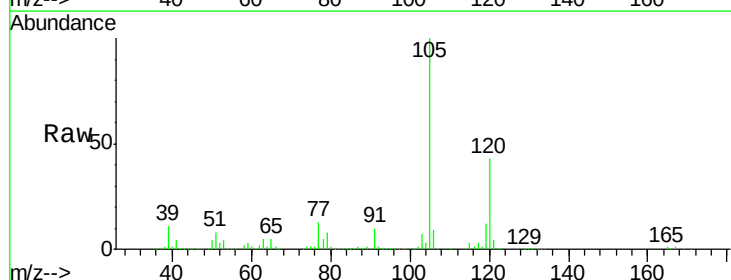
Manual Integrations
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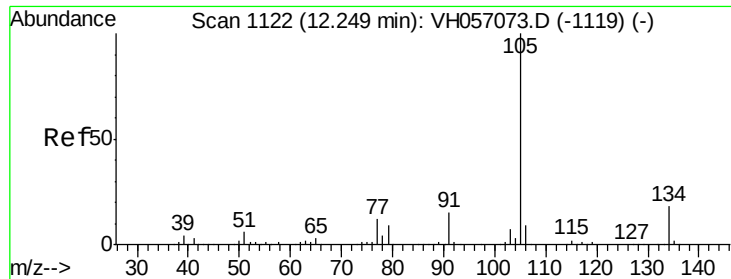
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#84
 1,2,4-Trimethylbenzene
 Concen: 101.74 ug/l
 RT: 12.14 min Scan# 1111
 Delta R.T. -0.00 min
 Lab File: VH057074.D
 Acq: 17 Sep 2015 19:56

Tgt Ion:105 Resp: 1957571
 Ion Ratio Lower Upper
 105 100
 120 42.8 22.6 67.7





#85

sec-Butylbenzene

Concen: 98.91 ug/l

RT: 12.25 min Scan# 1121

Delta R.T. -0.00 min

Lab File: VH057074.D

Acq: 17 Sep 2015 19:56

Instrument :

MSVOA_H

ClientSampled :

VSTDIC100

Tot Ion:105 Resp: 1884697

Ion Ratio Lower Upper

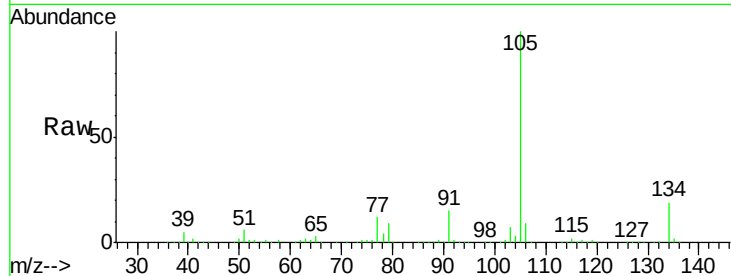
105 100

134 19.0 9.1 27.3

Manual Integrations
APPROVED

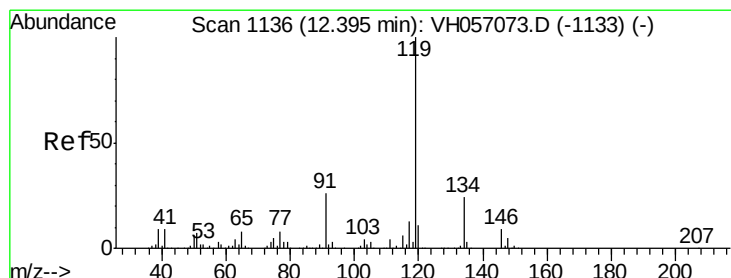
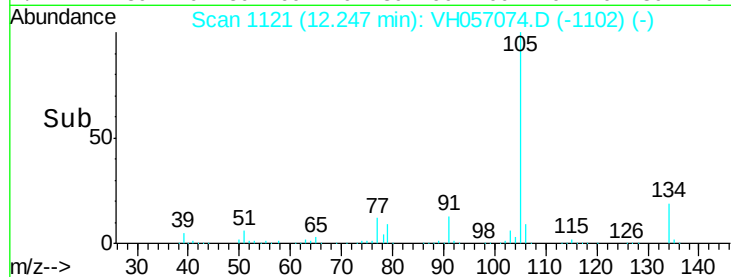
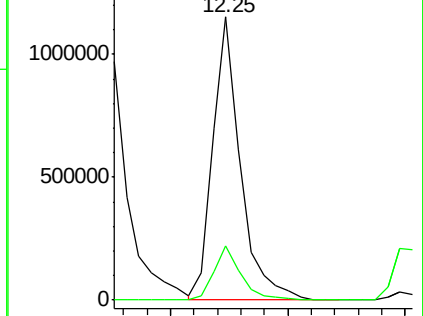
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 101.40 ug/l

RT: 12.40 min Scan# 1135

Delta R.T. 0.00 min

Lab File: VH057074.D

Acq: 17 Sep 2015 19:56

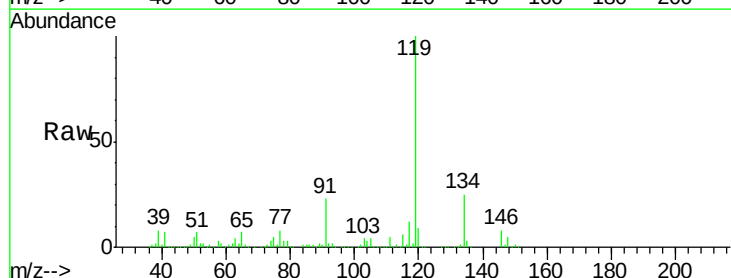
Tgt Ion:119 Resp: 1481721

Ion Ratio Lower Upper

119 100

134 24.7 13.0 38.9

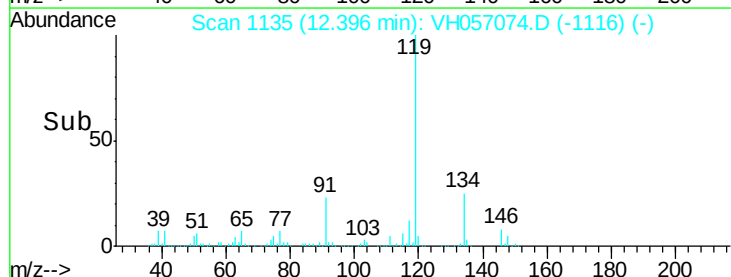
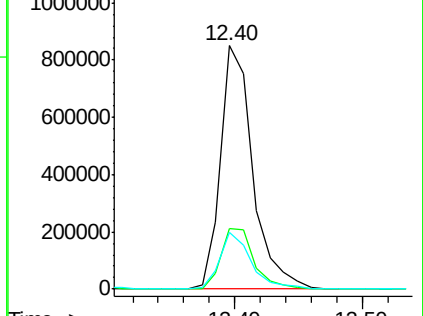
91 23.3 12.5 37.5

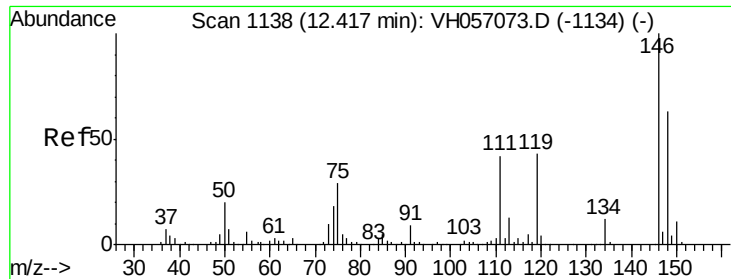


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





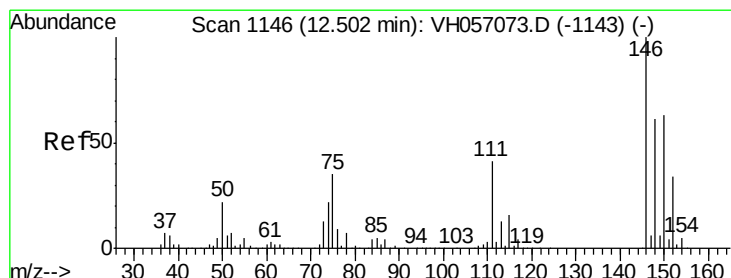
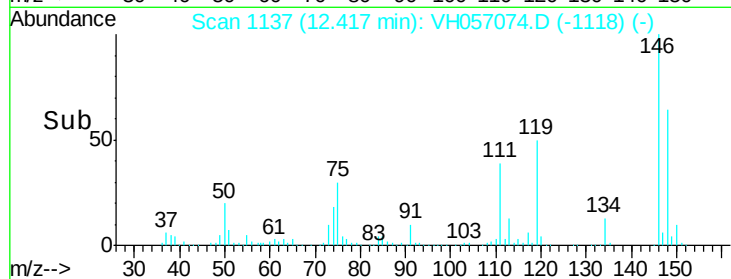
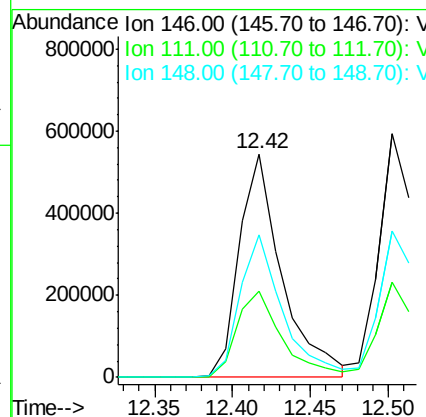
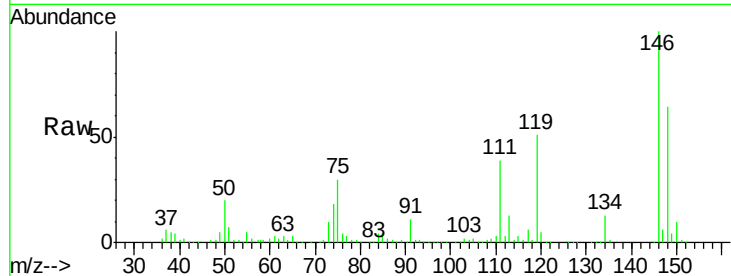
#87
 1,3-Dichlorobenzene
 Concen: 104.57 ug/l
 RT: 12.42 min Scan# 1137
 Delta R.T. 0.00 min
 Lab File: VH057074.D
 Acq: 17 Sep 2015 19:56

Instrument :
 MSVOA_H
 ClientSampleId :
 VSTDIC100

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.6	21.0	63.0
148	64.0	31.6	94.7

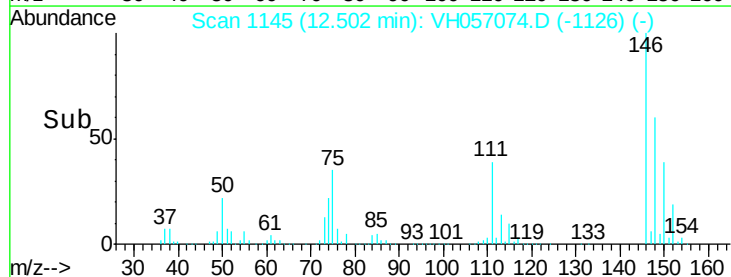
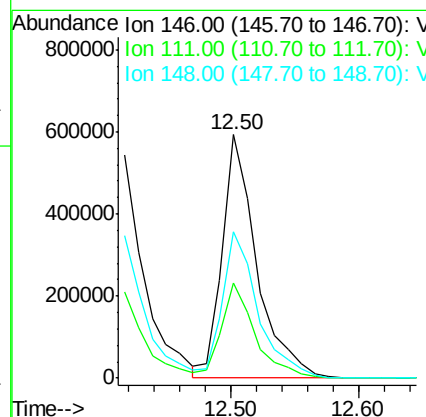
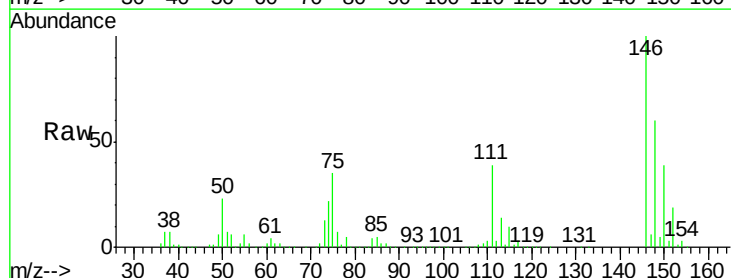
Manual Integrations
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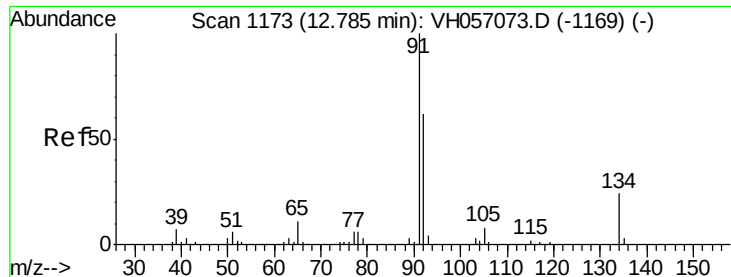
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#88
 1,4-Dichlorobenzene
 Concen: 104.84 ug/l
 RT: 12.50 min Scan# 1145
 Delta R.T. 0.00 min
 Lab File: VH057074.D
 Acq: 17 Sep 2015 19:56

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.1	19.8	59.3
148	59.9	30.3	90.9





#89

n-Butylbenzene

Concen: 106.73 ug/l

RT: 12.78 min Scan# 1172

Delta R.T. -0.00 min

Lab File: VH057074.D

Acq: 17 Sep 2015 19:56

Instrument :

MSVOA_H

ClientSampleId :

VSTDIC100

Tot Ion: 91 Resp: 1222192

Ion Ratio Lower Upper

91 100

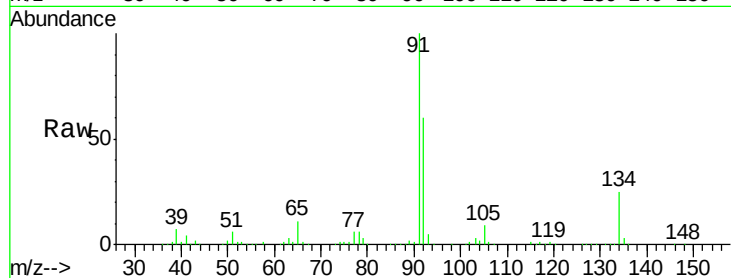
92 60.4 31.3 93.9

134 25.0 10.5 31.6

Manual Integrations
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Abundance Ion 91.00 (90.70 to 91.70): VH057073.D (-1169) (-)

Ion 92.00 (91.70 to 92.70): VH057073.D (-1169) (-)

Ion 134.00 (133.70 to 134.70): VH057073.D (-1169) (-)

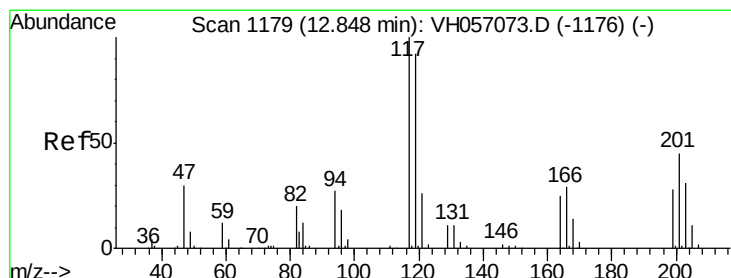
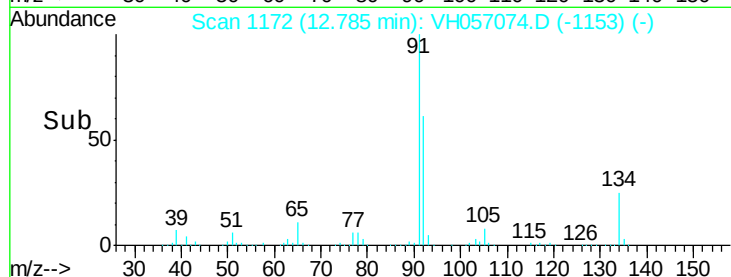
Time-->

12.78

12.75

12.80

12.85



#90

Hexachloroethane

Concen: 87.38 ug/l

RT: 12.85 min Scan# 1178

Delta R.T. 0.00 min

Lab File: VH057074.D

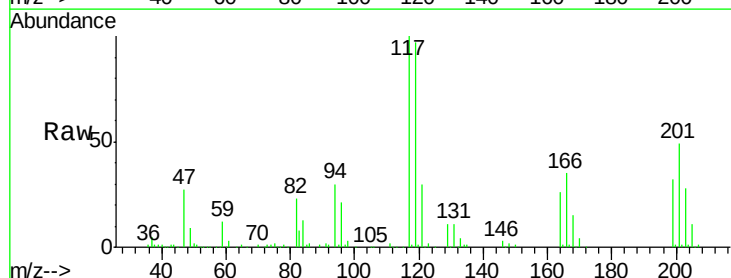
Acq: 17 Sep 2015 19:56

Tgt Ion: 117 Resp: 271832

Ion Ratio Lower Upper

117 100

201 48.6 14.0 80.8



Abundance Ion 116.85 (116.55 to 117.55): VH057073.D (-1176) (-)

Ion 200.75 (200.45 to 201.45): VH057073.D (-1176) (-)

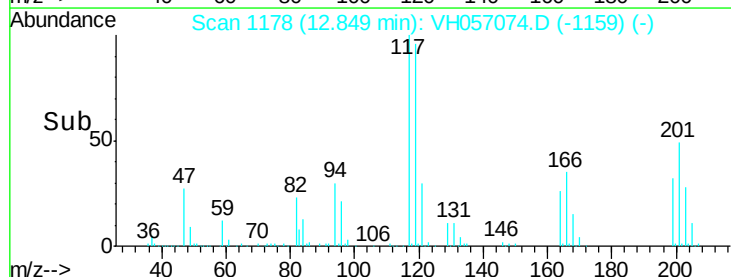
Time-->

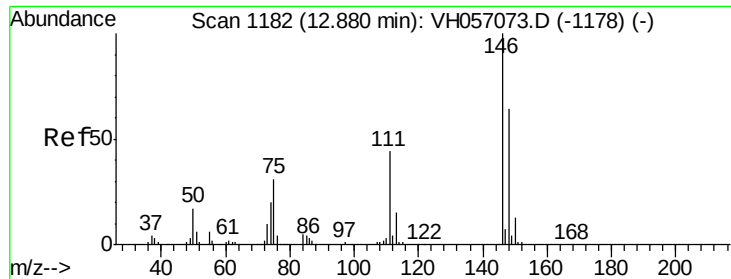
12.85

12.80

12.90

12.95





#91

1,2-Dichlorobenzene

Concen: 112.49 ug/l

RT: 12.88 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VH057074.D

Acq: 17 Sep 2015 19:56

Instrument :

MSVOA_H

ClientSampleId :

VSTDIC100

Tot Ion:146 Resp: 958566
Ion Ratio Lower Upper

146 100

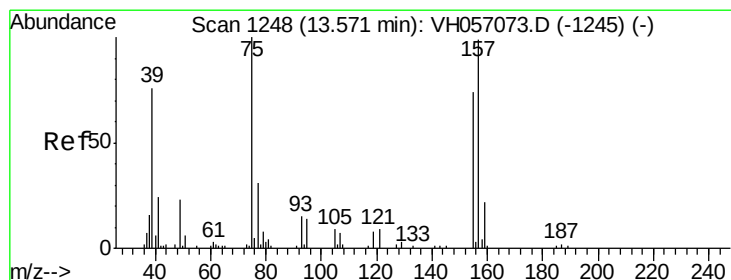
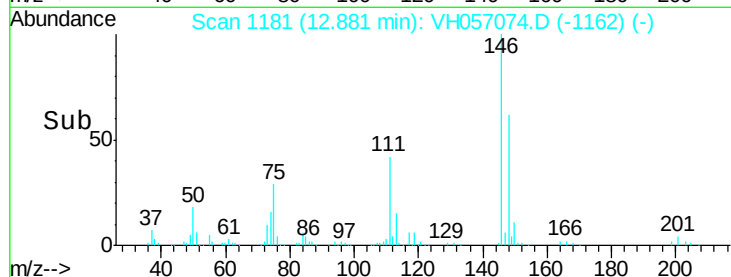
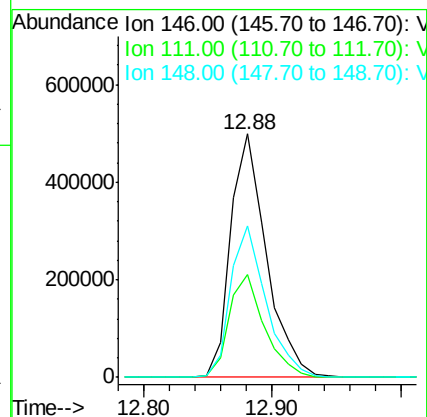
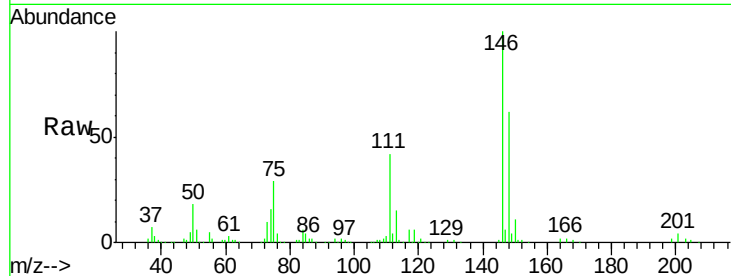
111 42.0 22.1 66.1

148 62.1 31.4 94.3

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#92

1,2-Dibromo-3-Chloropropane

Concen: 120.10 ug/l

RT: 13.57 min Scan# 1247

Delta R.T. 0.00 min

Lab File: VH057074.D

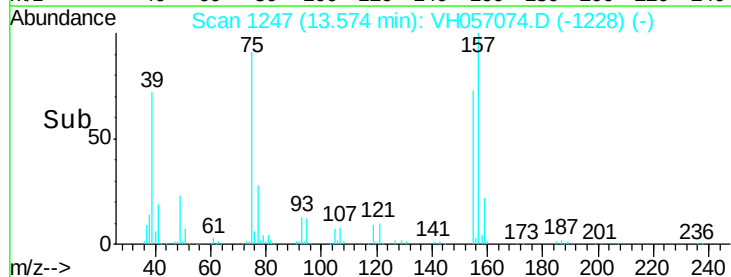
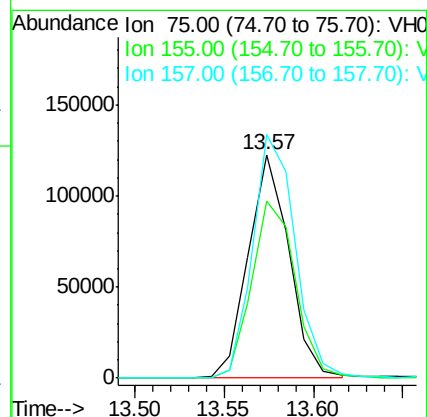
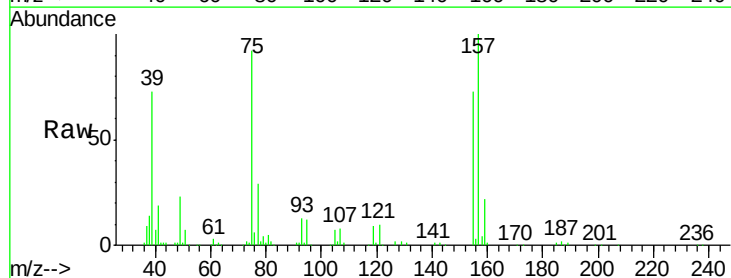
Acq: 17 Sep 2015 19:56

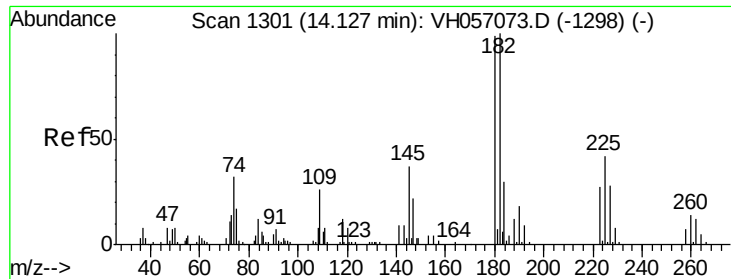
Tgt Ion: 75 Resp: 193668
Ion Ratio Lower Upper

75 100

155 79.4 43.4 130.2

157 109.1 62.8 188.4





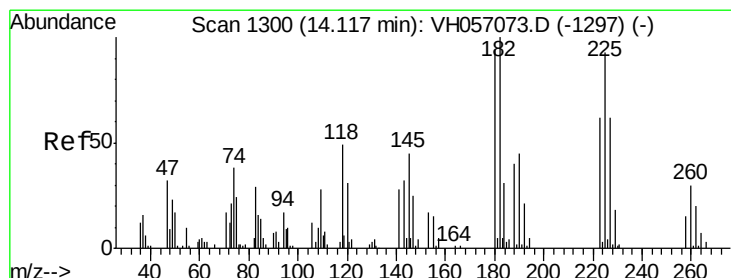
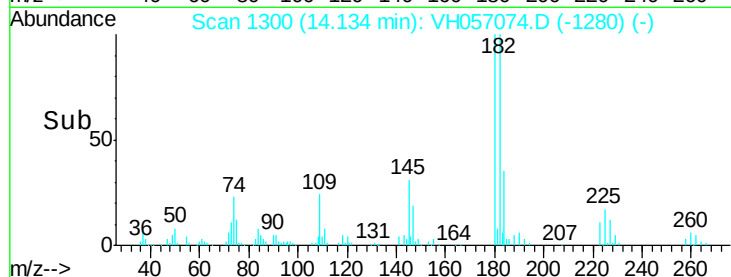
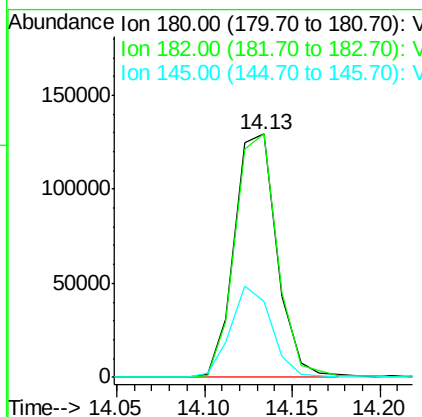
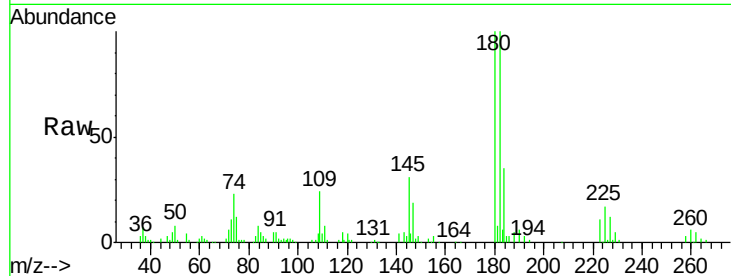
#93
 1,2,4-Trichlorobenzene
 Concen: 141.64 ug/l
 RT: 14.13 min Scan# 1300
 Delta R.T. 0.01 min
 Lab File: VH057074.D
 Acq: 17 Sep 2015 19:56

Instrument :
 MSVOA_H
 ClientSampleId :
 VSTDIC100

Tot Ion	Ratio	Resp	Lower	Upper
180	100	217093		
182	100.0	43.0	129.2	
145	31.0	17.3	52.0	

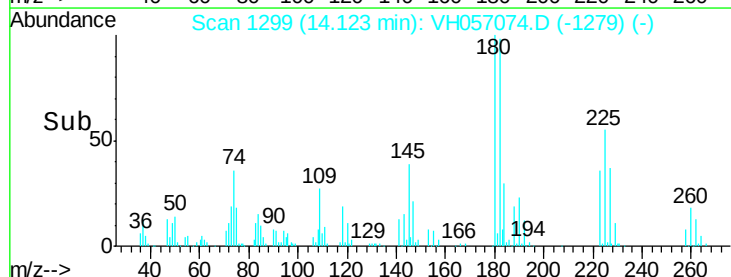
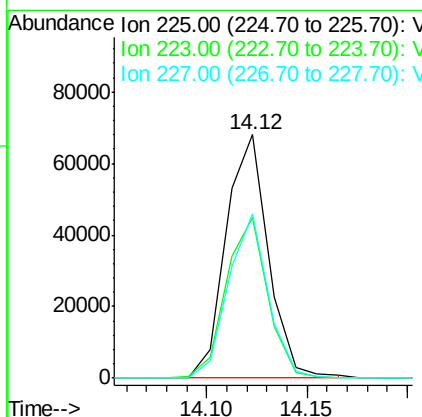
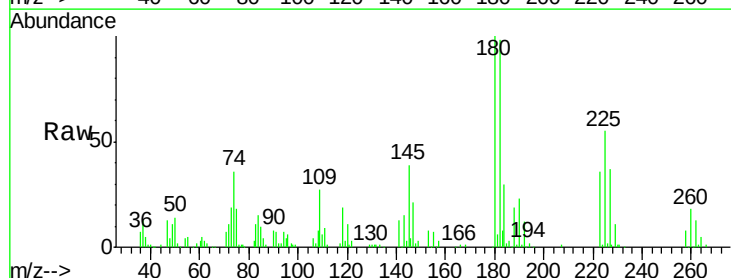
Manual Integrations
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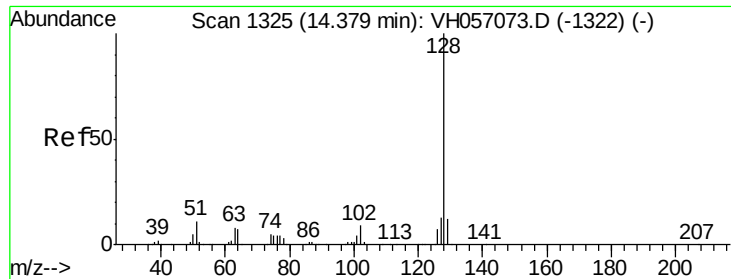
MMDadoda
 9/18/2015 3:41:13 PM



#94
 Hexachlorobutadiene
 Concen: 129.22 ug/l
 RT: 14.12 min Scan# 1299
 Delta R.T. 0.01 min
 Lab File: VH057074.D
 Acq: 17 Sep 2015 19:56

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	99840		
223	65.6	30.3	90.8	
227	69.1	30.5	91.5	





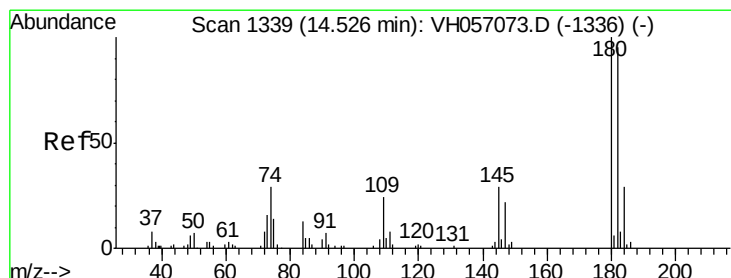
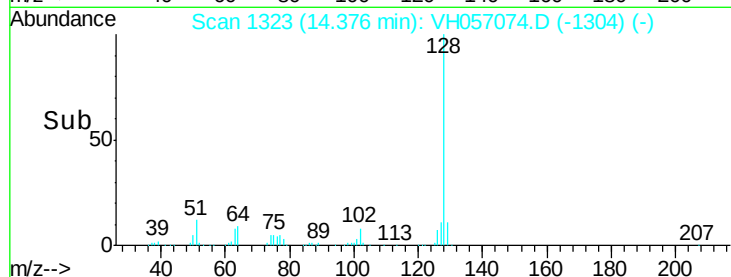
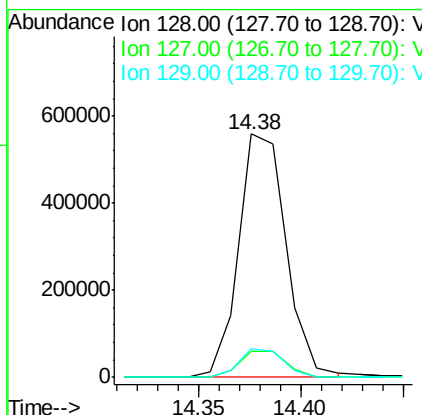
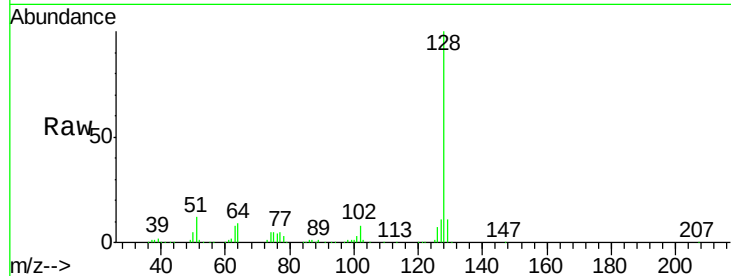
#95
Naphthalene
Concen: 137.05 ug/l
RT: 14.38 min Scan# 1323
Delta R.T. -0.00 min
Lab File: VH057074.D
Acq: 17 Sep 2015 19:56

Instrument :
MSVOA_H
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Resp Lower	Upper
128	100		
127	10.8	9.6	14.4
129	11.5	8.7	13.1

Manual Integrations
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MMDadoda
9/18/2015 3:41:13 PM



#96
1,2,3-Trichlorobenzene
Concen: 158.49 ug/l
RT: 14.52 min Scan# 1337
Delta R.T. -0.00 min
Lab File: VH057074.D
Acq: 17 Sep 2015 19:56

Tgt Ion	Ratio	Resp Lower	Upper
180	100		
182	102.5	47.1	141.3
145	34.7	12.5	37.5

