

Data Path : W:\HPCHEM1\MSVOA N\DATA\VN092115\
 Data File : VN027327.D
 Acq On : 21 Sep 2015 11:14
 Operator : MD\FY
 Sample : VSTDIC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Manual Integrations
 APPROVED

MMDadoda
 9/22/2015 2:27:49 PM

Quant Time: Sep 21 12:24:19 2015
 Quant Method : W:\HPCHEM1\MSVOA_N\METHODS\82N092115W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 21 12:16:44 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.75	168	565357	50.00	ug/l	0.00
35) 1,4-Difluorobenzene	8.68	114	1069552	50.00	ug/l	0.00
64) Chlorobenzene-d5	11.52	117	913490	50.00	ug/l	0.00
73) 1,4-Dichlorobenzene-d4	13.47	152	338402	50.00	ug/l	0.00

System Monitoring Compounds

34) 1,2-Dichloroethane-d4	8.12	65	240885	20.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	41.58%	
36) Dibromofluoromethane	7.68	113	152620	20.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	41.18%	
51) Toluene-d8	10.19	98	582071	20.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	40.10%	
63) 4-Bromofluorobenzene	12.52	95	207480	20.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	40.28%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.80	85	118148	17.46	ug/l	96
3) Chlorodifluoromethane	1.82	51	151065	19.30	ug/l #	92
4) Chloromethane	2.01	50	131921	16.19	ug/l	99
5) Vinyl Chloride	2.14	62	151144	18.92	ug/l	98
6) Bromomethane	2.55	94	57438	14.12	ug/l	92
7) Chloroethane	2.69	64	94651	17.43	ug/l	97
8) Trichlorofluoromethane	3.02	101	219078	18.15	ug/l	97
9) Diethyl Ether	3.42	74	98641	17.76	ug/l	88
10) 1,1,2-Trichlorotrifluoroet	3.79	101	139220	18.37	ug/l	96
11) Methyl Iodide	3.99	142	86955	11.80	ug/l #	89
12) Tert butyl alcohol	4.80	59	94914	83.79	ug/l	97
13) 1,1-Dichloroethene	3.77	96	130473	17.97	ug/l	95
14) Acrolein	3.62	56	117574	88.36	ug/l	95
15) Allyl chloride	4.37	41	251932	17.18	ug/l #	83
16) Acrylonitrile	5.03	53	325501	87.87	ug/l	99
17) Acetone	3.83	43	321665	102.99	ug/l	98
18) Carbon Disulfide	4.11	76	385266	16.30	ug/l	100
19) Methyl Acetate	4.36	43	404755	17.89	ug/l	95
20) Methyl tert-butyl Ether	5.12	73	530293	18.20	ug/l	96
21) Methylene Chloride	4.60	84	158172	18.18	ug/l	96
22) trans-1,2-Dichloroethene	5.12	96	141875	18.07	ug/l	98
23) Diisopropyl ether	6.04	45	548323	17.82	ug/l #	87
24) Vinyl Acetate	5.97	43	870643m	85.51	ug/l	
25) 1,1-Dichloroethane	5.93	63	320013	17.91	ug/l	99
26) 2-Butanone	6.91	43	435970	92.70	ug/l	96
27) 2,2-Dichloropropane	6.92	77	286620	18.49	ug/l	94
28) cis-1,2-Dichloroethene	6.92	96	169137	18.78	ug/l	96
29) Bromochloromethane	7.29	49	147496	21.26	ug/l	98
30) Tetrahydrofuran	7.32	42	259880	80.18	ug/l #	87
31) Chloroform	7.46	83	305119	18.90	ug/l	95
32) Cyclohexane	7.77	56	303968	15.32	ug/l #	90
33) 1,1,1-Trichloroethane	7.67	97	265634	18.45	ug/l	97
37) 1,1-Dichloropropene	7.89	75	224331	17.92	ug/l	100
38) Ethyl Acetate	7.02	43	189370	16.46	ug/l	98

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Quant Time: Sep 21 12:24:19 2015
 Quant Method : W:\HPCHEM1\MSVOA_N\METHODS\82N092115W.M
 Quant Title : SW846 8260
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Carbon Tetrachloride	7.88	117	214254	18.20	ug/l	100
40) Methylcyclohexane	9.19	83	266516	17.48	ug/l	97
41) Benzene	8.14	78	666482	18.24	ug/l	99
42) Methacrylonitrile	7.24	41	104019	17.19	ug/l #	87
43) 1,2-Dichloroethane	8.22	62	266140	18.08	ug/l	96
44) Isopropyl Acetate	8.25	43	340813	17.03	ug/l	97
45) Trichloroethene	8.94	130	131496	17.92	ug/l	89
46) 1,2-Dichloropropane	9.22	63	187564	17.85	ug/l	100
47) Dibromomethane	9.31	93	110391	17.89	ug/l	94
48) Bromodichloromethane	9.50	83	235642	18.12	ug/l	98
49) Methyl methacrylate	9.29	41	163240	16.38	ug/l #	85
50) 1,4-Dioxane	9.30	88	39733	339.86	ug/l	98
52) 4-Methyl-2-Pentanone	10.07	43	918211	86.80	ug/l	98
53) Toluene	10.26	92	389315	18.19	ug/l	98
54) t-1,3-Dichloropropene	10.47	75	252527	17.29	ug/l	99
55) cis-1,3-Dichloropropene	9.93	75	275656	17.35	ug/l	92
56) 1,1,2-Trichloroethane	10.66	97	148363	18.45	ug/l	99
57) Ethyl methacrylate	10.52	69	236049	17.42	ug/l #	91
58) 1,3-Dichloropropane	10.81	76	270752	18.14	ug/l	97
59) 2-Chloroethyl Vinyl ether	9.78	63	542865	87.24	ug/l	98
60) 2-Hexanone	10.84	43	628492	87.26	ug/l	99
61) Dibromochloromethane	11.00	129	145307	17.69	ug/l	98
62) 1,2-Dibromoethane	11.11	107	139892	17.70	ug/l	100
65) Tetrachloroethene	10.74	164	104242	17.84	ug/l	93
66) Chlorobenzene	11.54	112	385610	17.88	ug/l	99
67) 1,1,1,2-Tetrachloroethane	11.62	131	130558	17.75	ug/l	98
68) Ethyl Benzene	11.62	91	722769	17.67	ug/l	100
69) m/p-Xylenes	11.73	106	503282	35.67	ug/l	91
70) o-Xylene	12.06	106	251472	17.78	ug/l	89
71) Styrene	12.08	104	407502	17.85	ug/l	95
72) Bromoform	12.24	173	88476	17.29	ug/l #	98
74) Isopropylbenzene	12.36	105	679591	18.22	ug/l	99
75) N-amyl acetate	12.17	43	277235	16.66	ug/l	99
76) 1,1,2,2-Tetrachloroethane	12.61	83	194700	17.58	ug/l	98
77) 1,2,3-Trichloropropane	12.66	75	186913m	18.28	ug/l	
78) Bromobenzene	12.64	156	131728	18.01	ug/l	92
79) n-propylbenzene	12.71	91	802559	18.29	ug/l	98
80) 2-Chlorotoluene	12.79	91	492872	18.71	ug/l	95
81) 1,3,5-Trimethylbenzene	12.85	105	546232	18.23	ug/l	94
82) trans-1,4-Dichloro-2-buten	12.40	75	67211	16.14	ug/l	94
83) 4-Chlorotoluene	12.89	91	479341	18.52	ug/l	96
84) tert-Butylbenzene	13.11	119	438704	17.75	ug/l	89
85) 1,2,4-Trimethylbenzene	13.16	105	545635	18.13	ug/l	95
86) sec-Butylbenzene	13.29	105	658157	18.18	ug/l	99
87) p-Isopropyltoluene	13.41	119	495495	17.77	ug/l	95
88) 1,3-Dichlorobenzene	13.41	146	227757	18.20	ug/l	96
89) 1,4-Dichlorobenzene	13.49	146	229302	18.09	ug/l	95
90) n-Butylbenzene	13.74	91	476410	17.60	ug/l	99
91) Hexachloroethane	14.01	117	105077	17.22	ug/l	94
92) 1,2-Dichlorobenzene	13.78	146	231414	18.71	ug/l	97

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ClientSampleId :
VSTDICC020

Manual Integrations
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Quant Title : SW846 8260
QLast Update : Mon Sep 21 12:16:44 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2-Dibromo-3-Chloropropan	14.40	75	36996	15.27	ug/l	87
94) 1,2,4-Trichlorobenzene	15.06	180	117770	17.63	ug/l	98
95) Hexachlorobutadiene	15.16	225	62434	17.75	ug/l	99
96) Naphthalene	15.29	128	316790	16.18	ug/l	99
97) 1,2,3-Trichlorobenzene	15.47	180	119258	17.96	ug/l	95

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

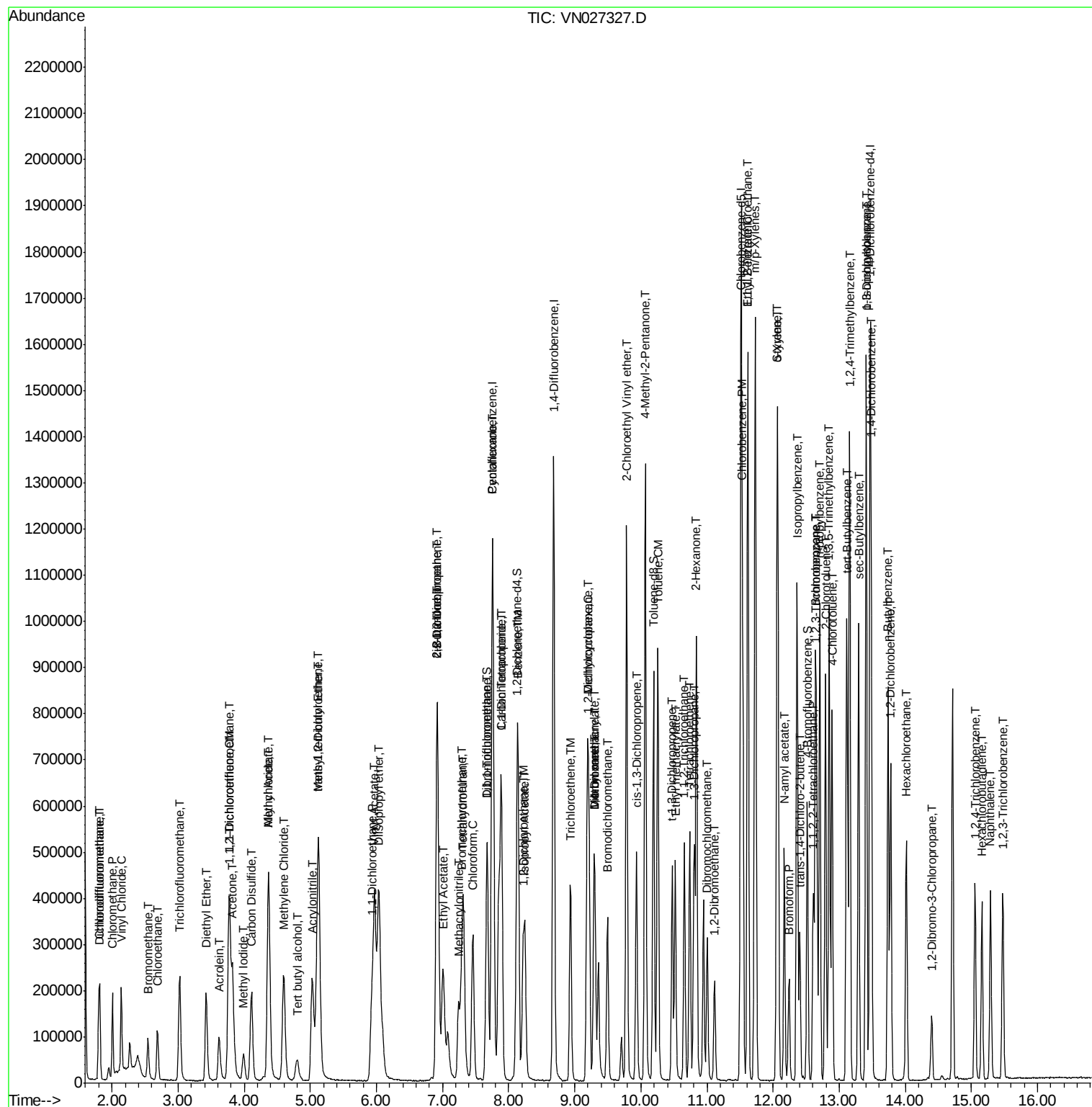
Data Path : W:\HPCHEM1\MSVOA N\DATA\VN092115\
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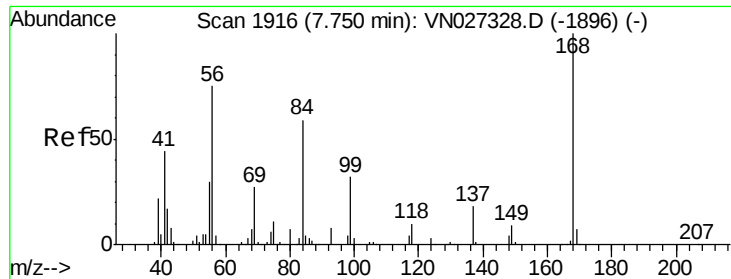
Instrument :
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Manual Integrations
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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.75 min Scan# 1916

Delta R.T. 0.00 min

Lab File: VN027327.D

Acq: 21 Sep 2015 11:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion:168 Resp: 565357

Ion Ratio Lower Upper

168 100

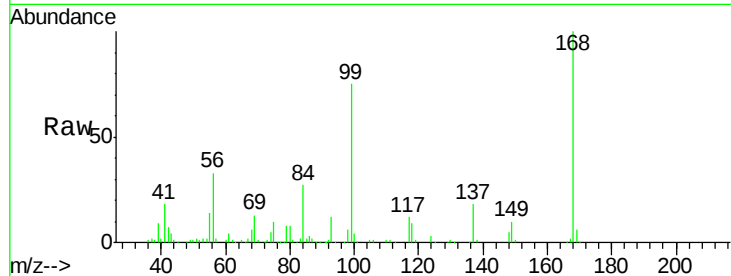
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Manual Integrations

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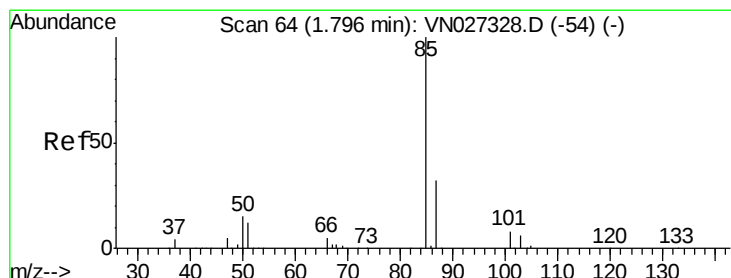
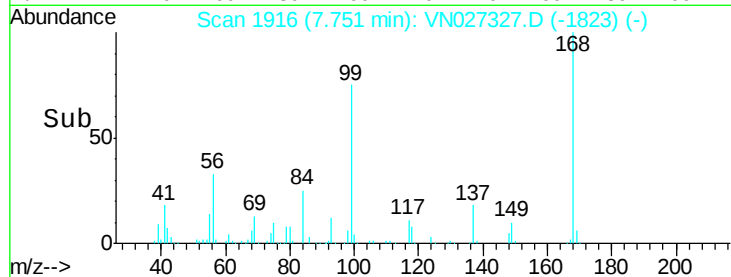
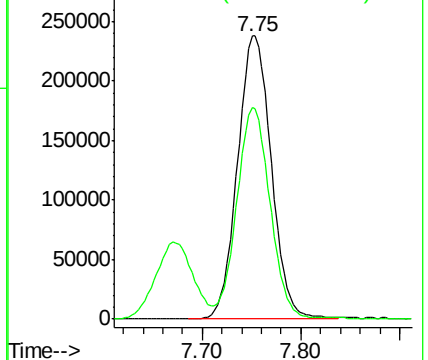
MMDadoda

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#2

Dichlorodifluoromethane

Concen: 17.46 ug/l

RT: 1.80 min Scan# 64

Delta R.T. 0.00 min

Lab File: VN027327.D

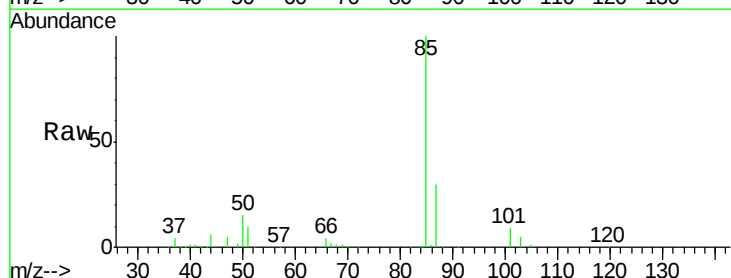
Acq: 21 Sep 2015 11:14

Tgt Ion: 85 Resp: 118148

Ion Ratio Lower Upper

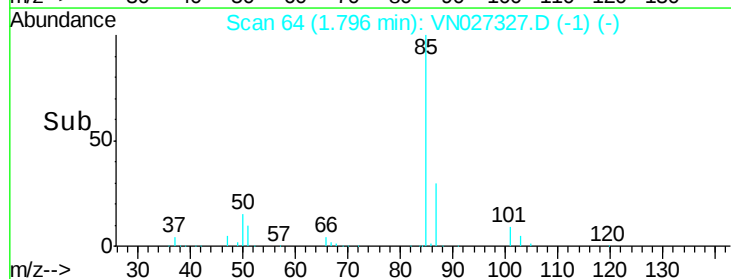
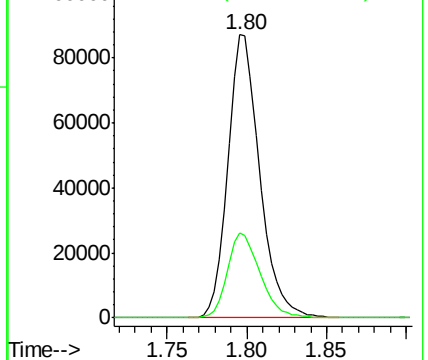
85 100

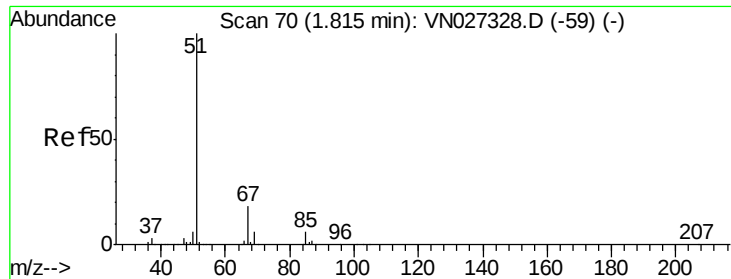
87 30.0 16.3 48.8



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO





#3

Chlorodifluoromethane

Concen: 19.30 ug/l

RT: 1.82 min Scan# 70

Delta R.T. 0.00 min

Lab File: VN027327.D

Acq: 21 Sep 2015 11:14

Instrument :

MSVOA_N

ClientSampled :

VSTDIC020

Tot Ion: 51 Resp: 151065

Ion Ratio Lower Upper

51 100

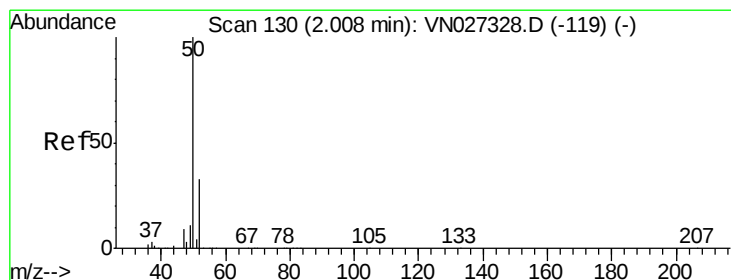
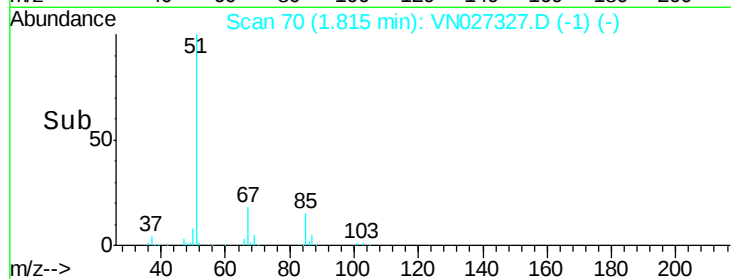
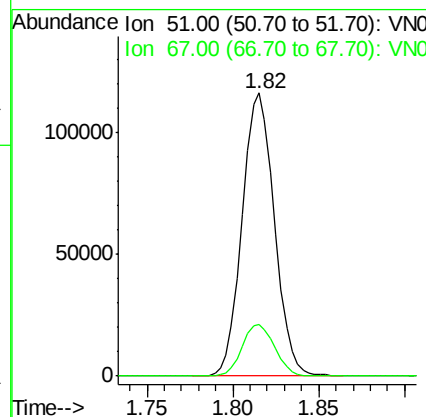
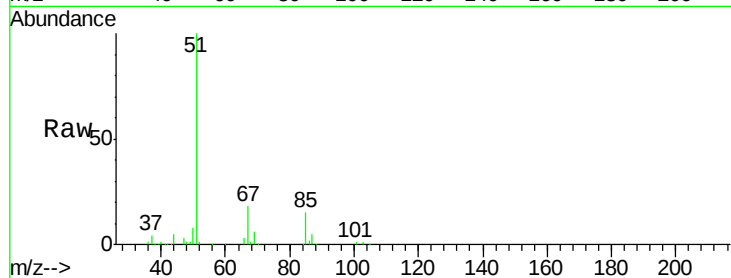
67 18.5 12.2 18.2#

Manual Integrations

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#4

Chloromethane

Concen: 16.19 ug/l

RT: 2.01 min Scan# 130

Delta R.T. 0.00 min

Lab File: VN027327.D

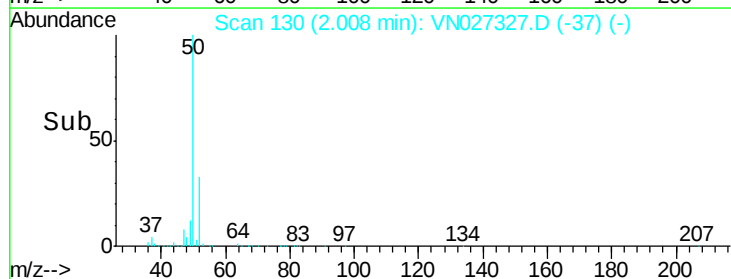
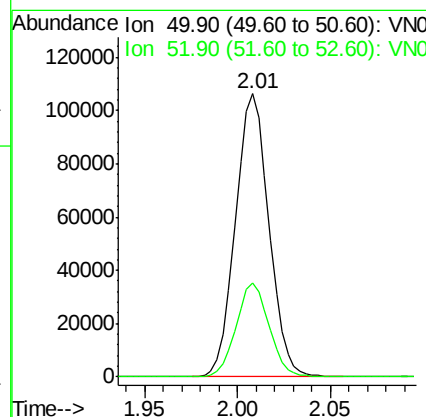
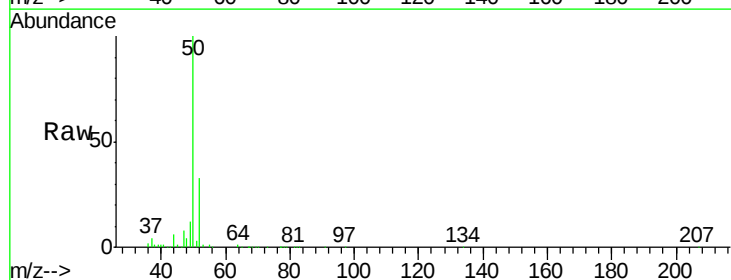
Acq: 21 Sep 2015 11:14

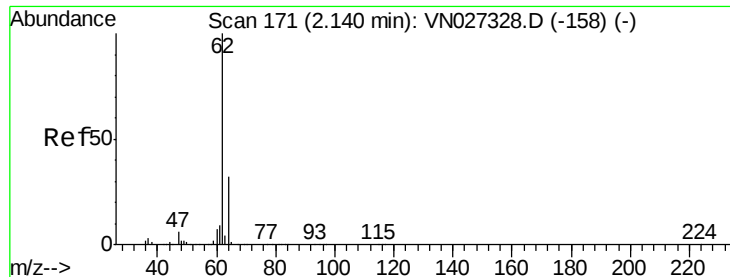
Tgt Ion: 50 Resp: 131921

Ion Ratio Lower Upper

50 100

52 33.2 25.9 38.9





#5

Vinyl Chloride

Concen: 18.92 ug/l

RT: 2.14 min Scan# 171

Delta R.T. 0.00 min

Lab File: VN027327.D

Acq: 21 Sep 2015 11:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 62 Resp: 151144

Ion Ratio Lower Upper

62 100

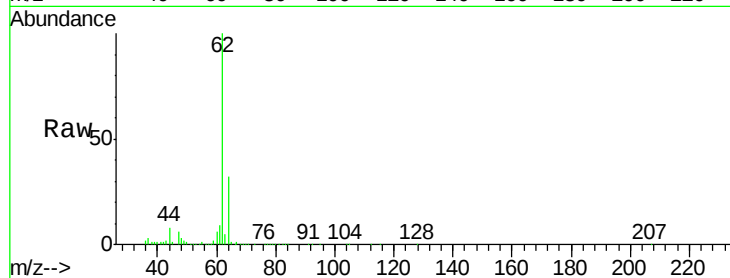
64 31.2 25.9 38.9

Manual Integrations

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Abundance Ion 61.90 (61.60 to 62.60): VNC

Ion 63.90 (63.60 to 64.60): VNC

2.14

120000

100000

80000

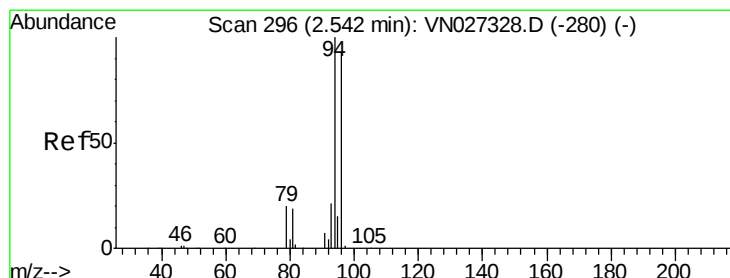
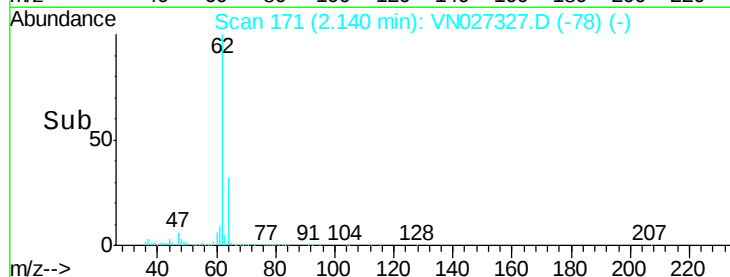
60000

40000

20000

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Time-->



#6

Bromomethane

Concen: 14.12 ug/l

RT: 2.55 min Scan# 297

Delta R.T. 0.00 min

Lab File: VN027327.D

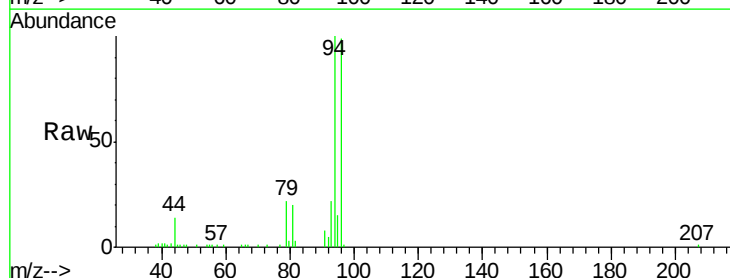
Acq: 21 Sep 2015 11:14

Tgt Ion: 94 Resp: 57438

Ion Ratio Lower Upper

94 100

96 99.1 73.4 110.2



Abundance Ion 93.90 (93.60 to 94.60): VNC

Ion 95.90 (95.60 to 96.60): VNC

2.55

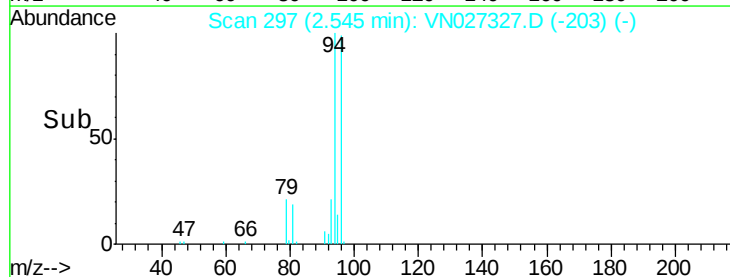
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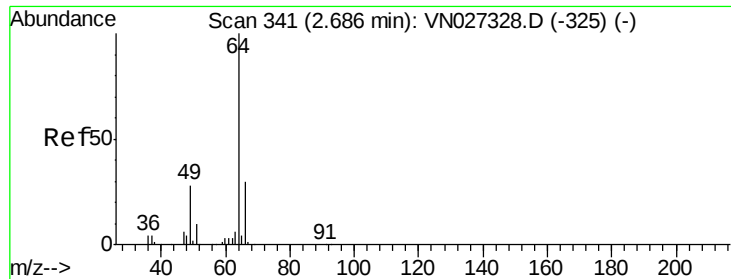
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10000

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Time-->





#7

Chloroethane

Concen: 17.43 ug/l

RT: 2.69 min Scan# 341

Delta R.T. 0.00 min

Lab File: VN027327.D

Acq: 21 Sep 2015 11:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 64 Resp: 94651

Ion Ratio Lower Upper

64 100

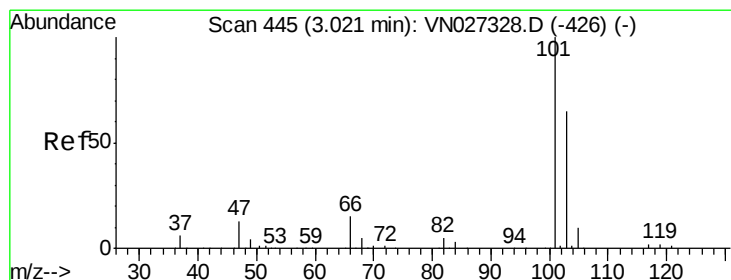
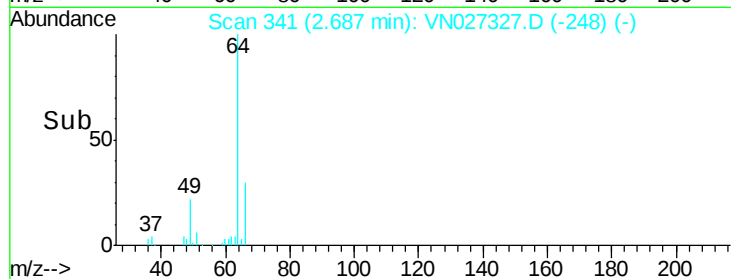
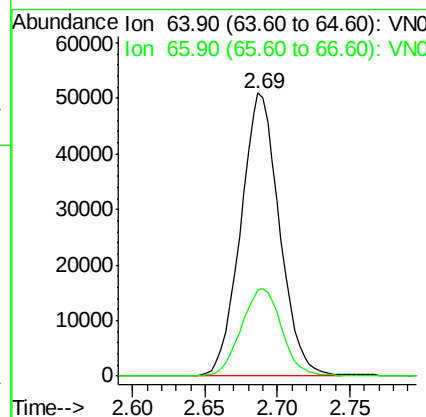
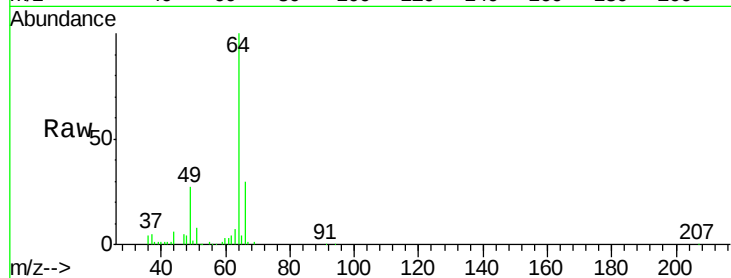
66 30.4 25.5 38.3

Manual Integrations

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9/22/2015 2:27:49 PM



#8

Trichlorofluoromethane

Concen: 18.15 ug/l

RT: 3.02 min Scan# 446

Delta R.T. 0.00 min

Lab File: VN027327.D

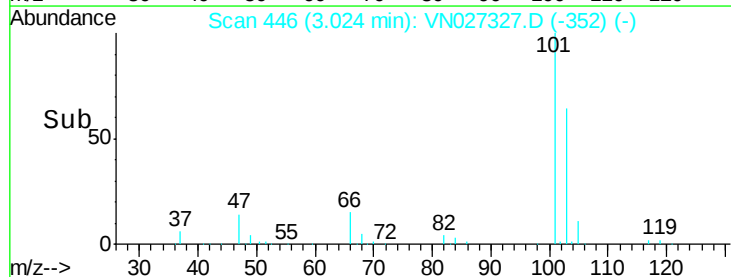
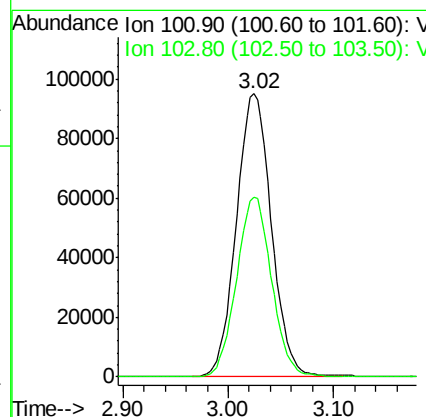
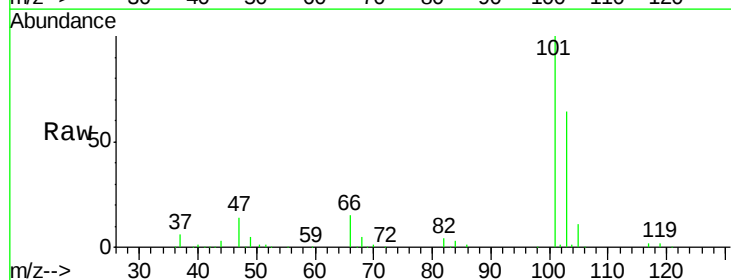
Acq: 21 Sep 2015 11:14

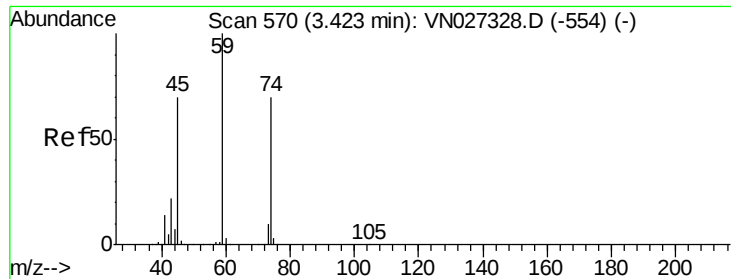
Tgt Ion: 101 Resp: 219078

Ion Ratio Lower Upper

101 100

103 63.7 52.6 79.0





#9

Diethyl Ether

Concen: 17.76 ug/l

RT: 3.42 min Scan# 570

Delta R.T. 0.00 min

Lab File: VN027327.D

Acq: 21 Sep 2015 11:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 74 Resp: 98641

Ion Ratio Lower Upper

74 100

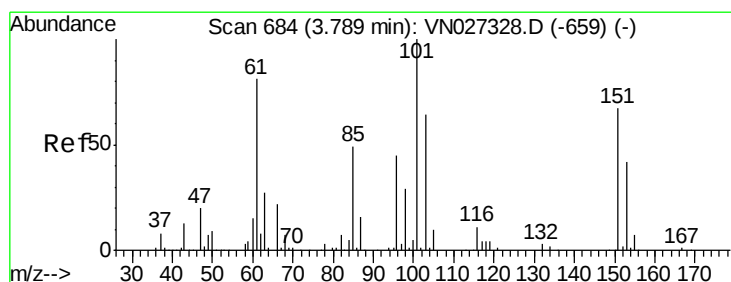
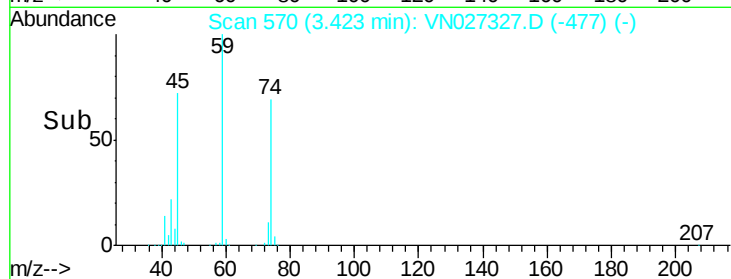
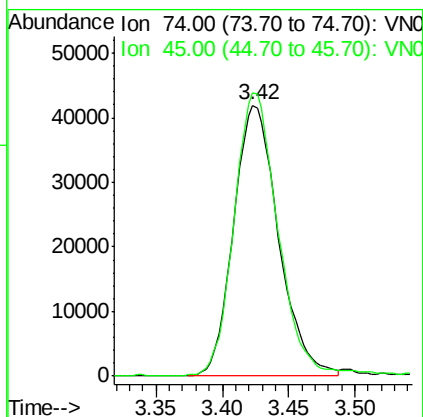
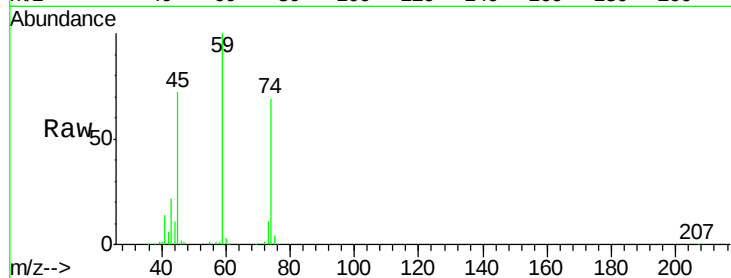
45 103.3 58.1 174.3

Manual Integrations

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#10

1,1,2-Trichlorotrifluoroethane

Concen: 18.37 ug/l

RT: 3.79 min Scan# 685

Delta R.T. 0.00 min

Lab File: VN027327.D

Acq: 21 Sep 2015 11:14

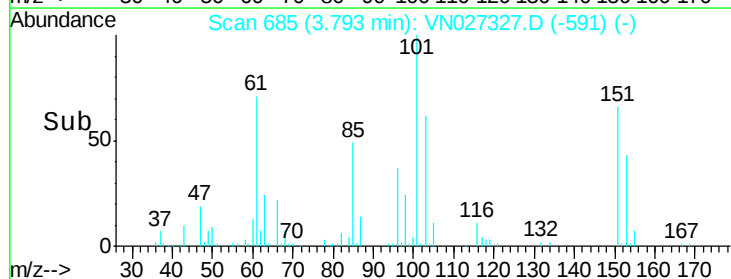
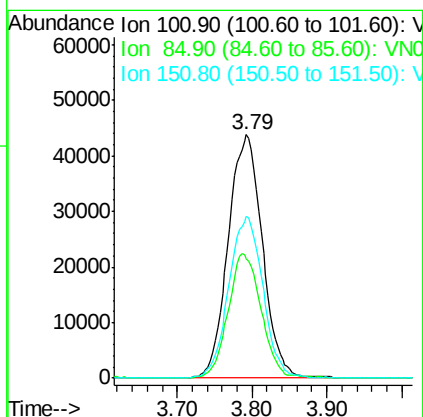
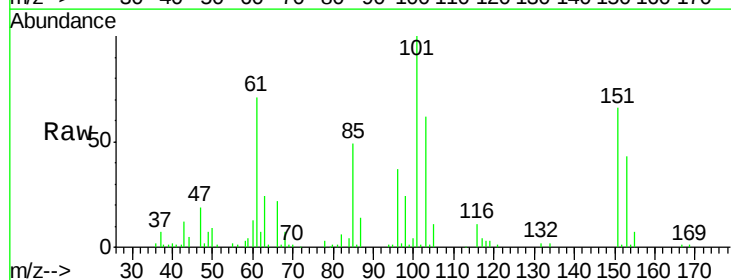
Tgt Ion: 101 Resp: 139220

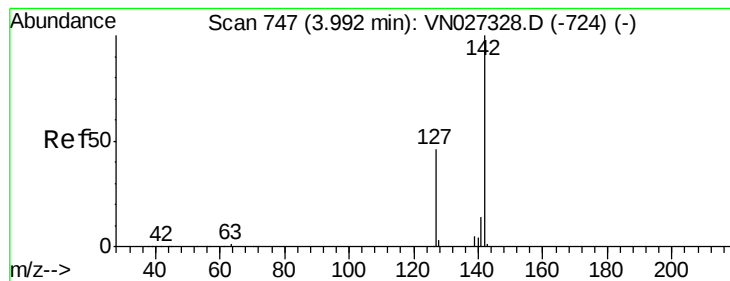
Ion Ratio Lower Upper

101 100

85 48.7 37.4 56.0

151 66.2 55.9 83.9





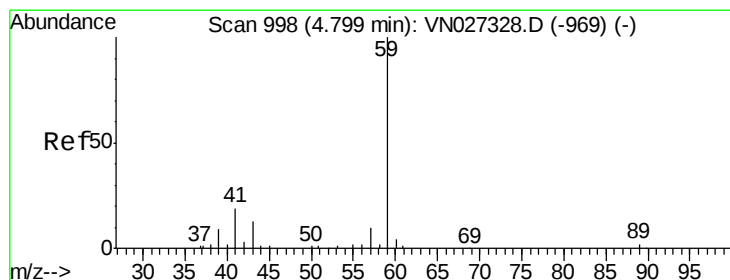
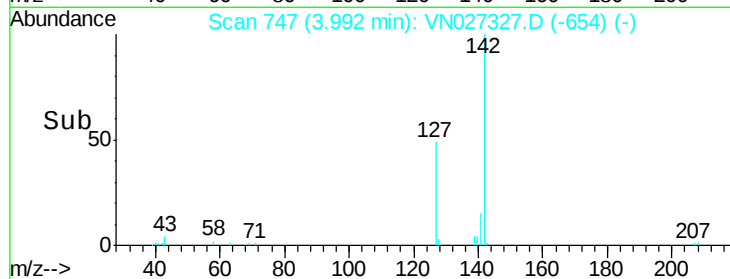
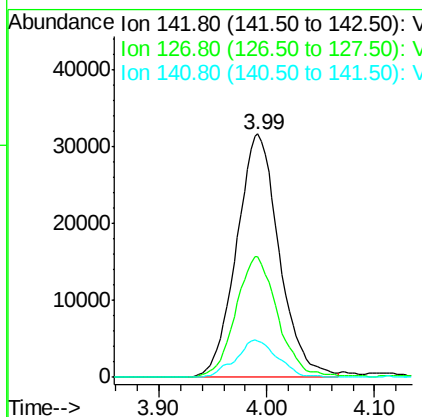
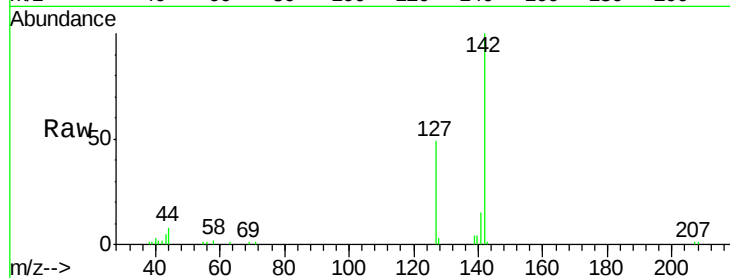
#11
Methvl Iodide
Concen: 11.80 ug/l
RT: 3.99 min Scan# 747
Delta R.T. 0.00 min
Lab File: VN027327.D
Acq: 21 Sep 2015 11:14

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
142	100		
127	49.0	32.3	48.5#
141	14.9	11.2	16.8

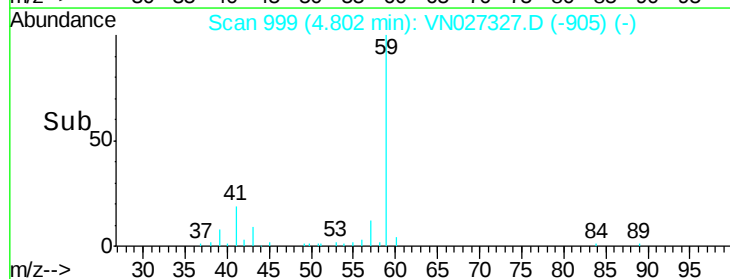
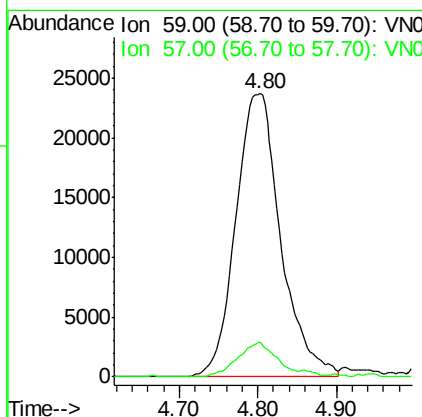
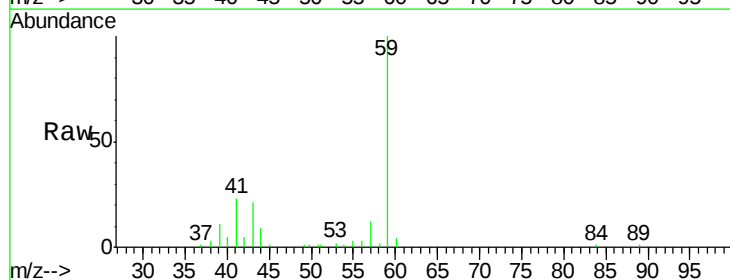
Manual Integrations
APPROVED

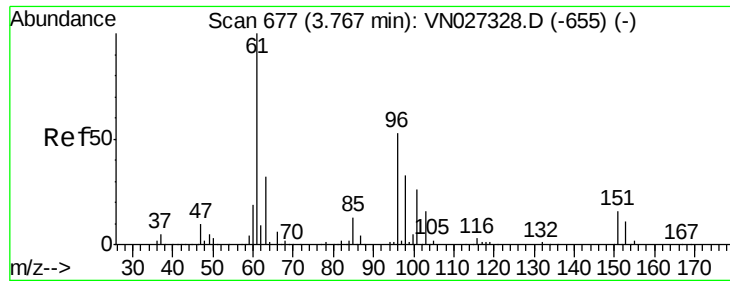
MMDadoda
9/22/2015 2:27:49 PM



#12
Tert butyl alcohol
Concen: 83.79 ug/l
RT: 4.80 min Scan# 999
Delta R.T. 0.00 min
Lab File: VN027327.D
Acq: 21 Sep 2015 11:14

Tgt Ion	Ratio	Lower	Upper
59	100		
57	10.6	7.6	11.4





#13

1,1-Dichloroethene

Concen: 17.97 ug/l

RT: 3.77 min Scan# 677

Delta R.T. 0.00 min

Lab File: VN027327.D

Acq: 21 Sep 2015 11:14

Instrument :

MSVOA_N

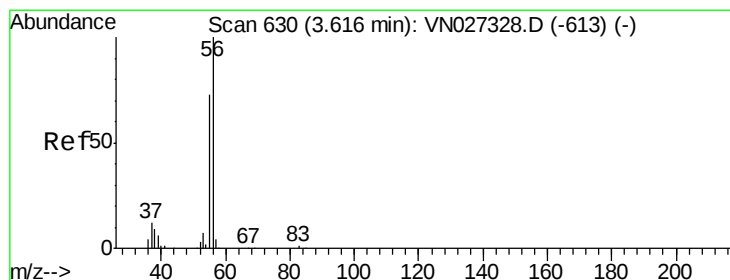
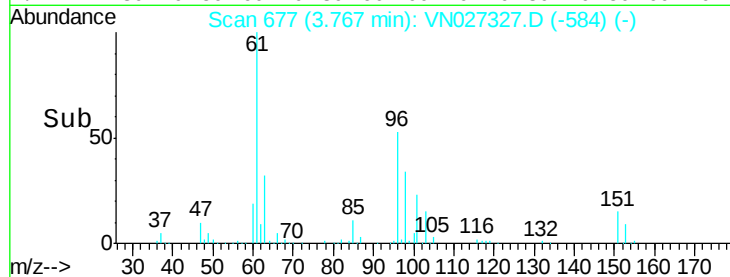
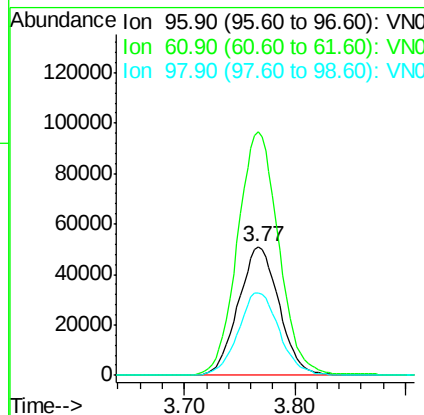
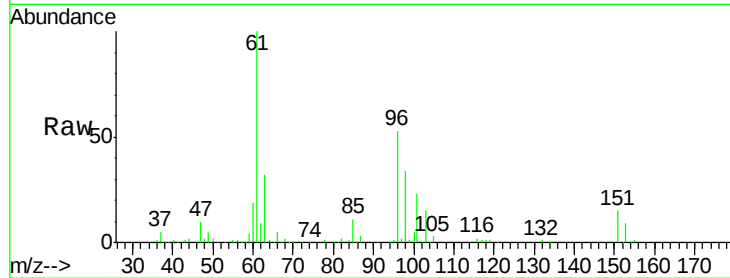
ClientSampleId :

VSTDIC020

Tot Ion:	96	Resp:	130473
Ion	Ratio	Lower	Upper
96	100		
61	188.8	143.8	215.8
98	64.4	50.3	75.5

Manual Integrations
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9/22/2015 2:27:49 PM



#14

Acrolein

Concen: 88.36 ug/l

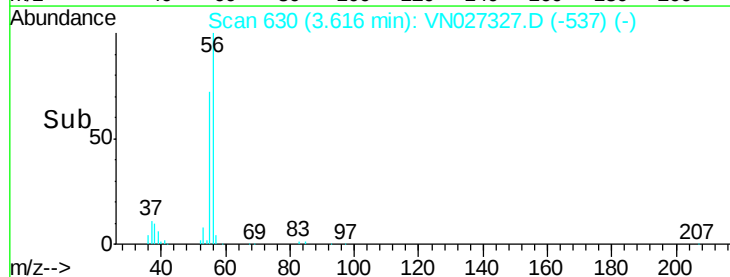
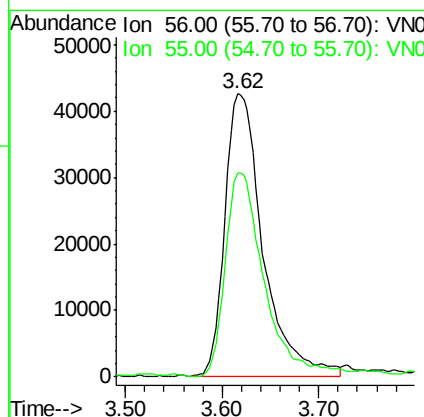
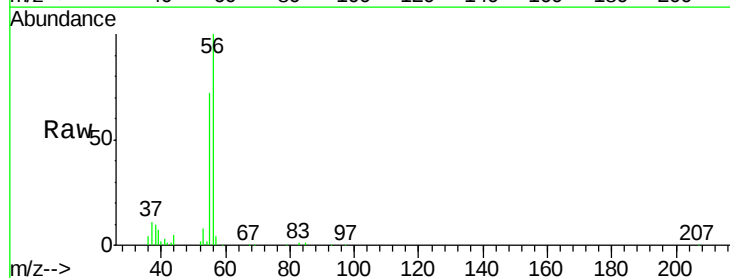
RT: 3.62 min Scan# 630

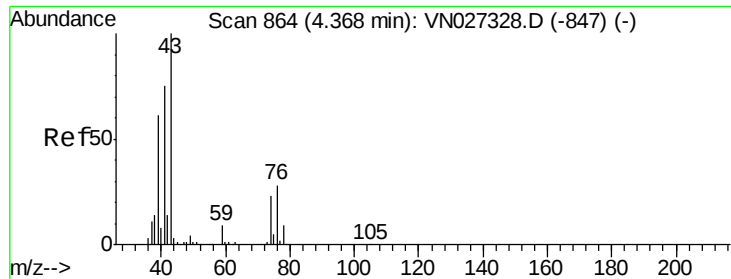
Delta R.T. 0.00 min

Lab File: VN027327.D

Acq: 21 Sep 2015 11:14

Tgt Ion:	56	Resp:	117574
Ion	Ratio	Lower	Upper
56	100		
55	73.6	55.7	83.5





#15

Allvl chloride

Concen: 17.18 ug/l

RT: 4.37 min Scan# 864

Delta R.T. 0.00 min

Lab File: VN027327.D

Acq: 21 Sep 2015 11:14

Instrument :

MSVOA_N

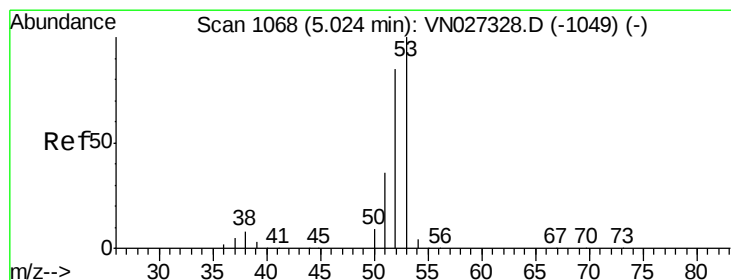
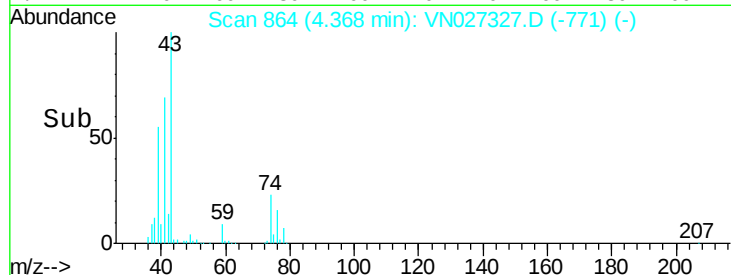
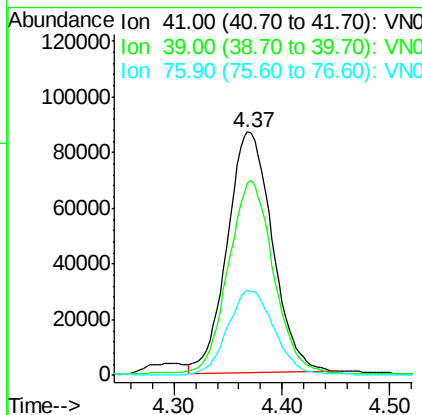
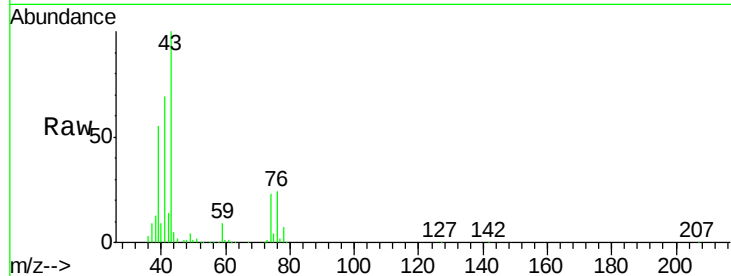
ClientSampleId :

VSTDIC020

Tot Ion:	41	Resp:	251932
Ion	Ratio	Lower	Upper
41	100		
39	78.4	49.7	74.5#
76	35.6	24.8	37.2

Manual Integrations
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#16

Acrylonitrile

Concen: 87.87 ug/l

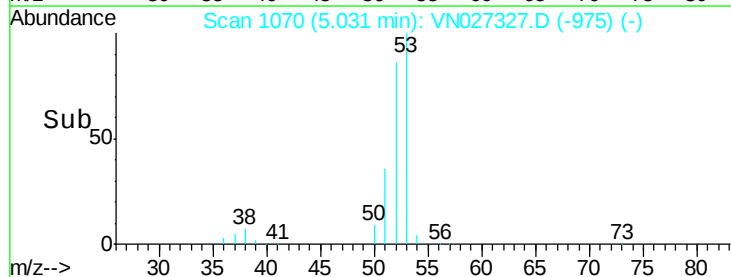
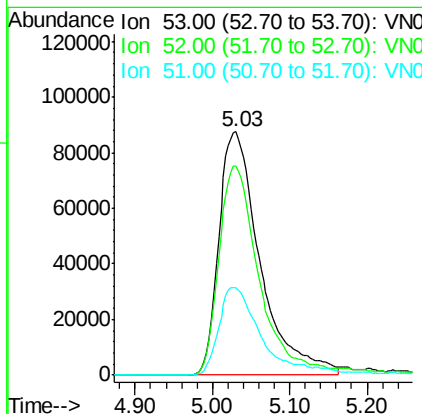
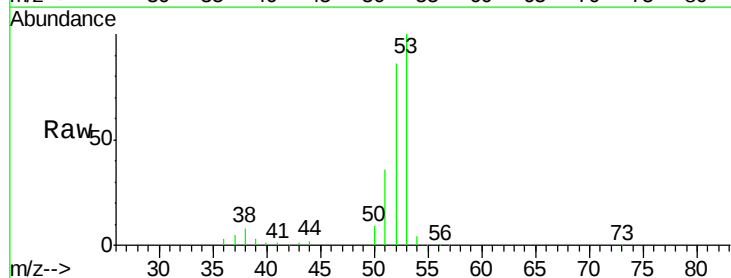
RT: 5.03 min Scan# 1070

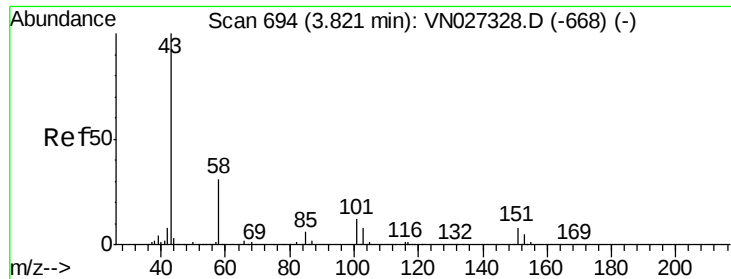
Delta R.T. 0.01 min

Lab File: VN027327.D

Acq: 21 Sep 2015 11:14

Tgt Ion:	53	Resp:	325501
Ion	Ratio	Lower	Upper
53	100		
52	83.1	66.9	100.3
51	35.8	27.4	41.0





#17

Acetone

Concen: 102.99 ug/l

RT: 3.83 min Scan# 696

Delta R.T. 0.01 min

Lab File: VN027327.D

Acq: 21 Sep 2015 11:14

Instrument :

MSVOA_N

ClientSampled :

VSTDIC020

Tot Ion: 43 Resp: 321665

Ion Ratio Lower Upper

43 100

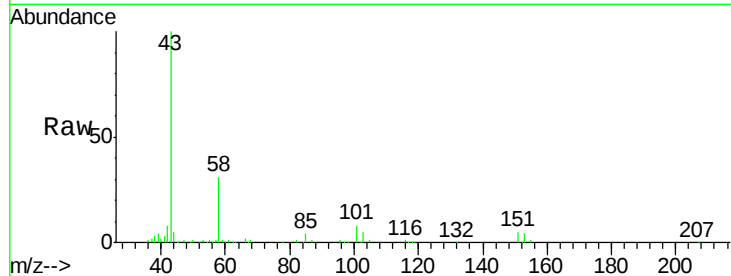
58 30.6 25.4 38.0

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

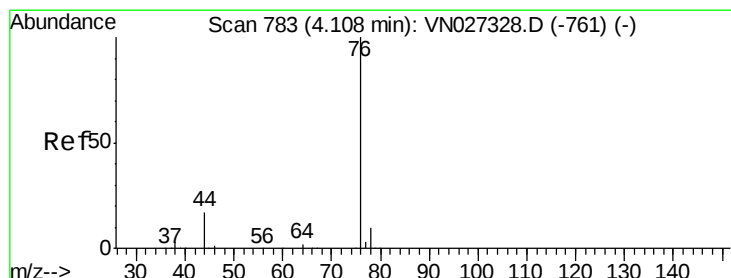
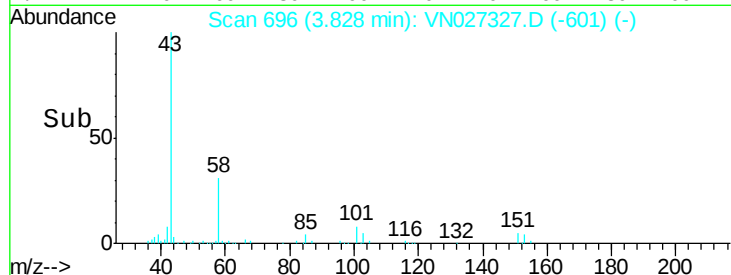
3.83

100000

50000

0

Time-->



#18

Carbon Disulfide

Concen: 16.30 ug/l

RT: 4.11 min Scan# 783

Delta R.T. 0.00 min

Lab File: VN027327.D

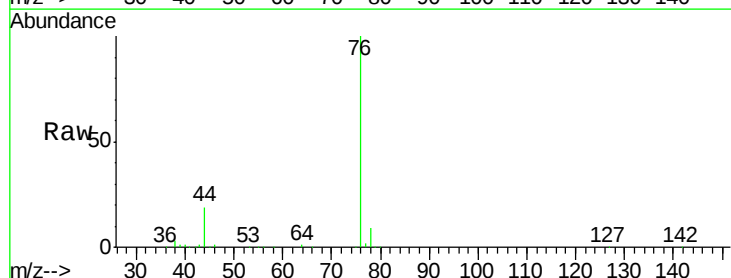
Acq: 21 Sep 2015 11:14

Tgt Ion: 76 Resp: 385266

Ion Ratio Lower Upper

76 100

78 9.0 7.1 10.7



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

4.11

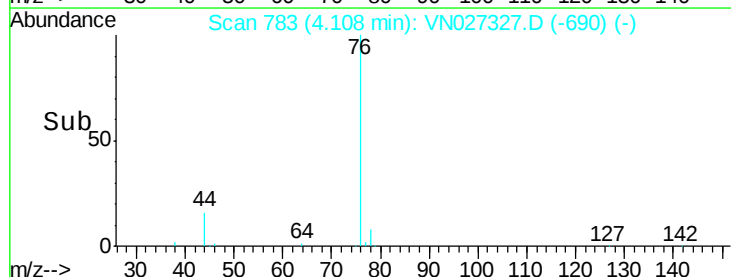
150000

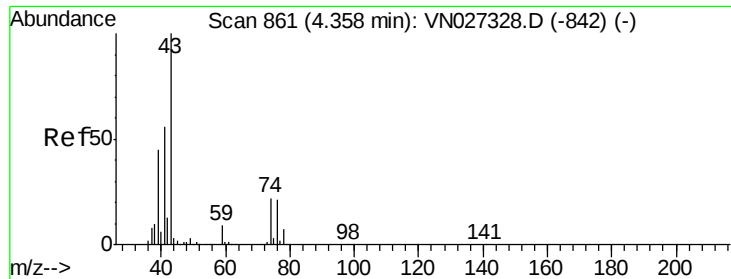
100000

50000

0

Time-->





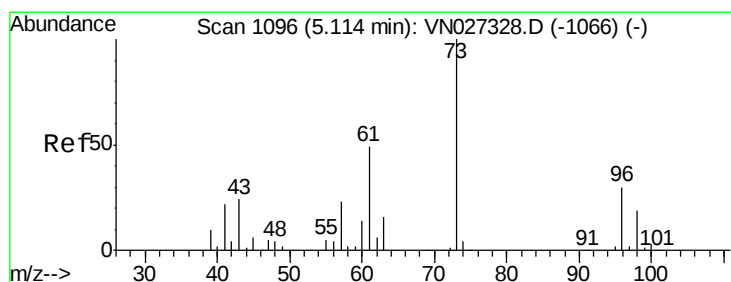
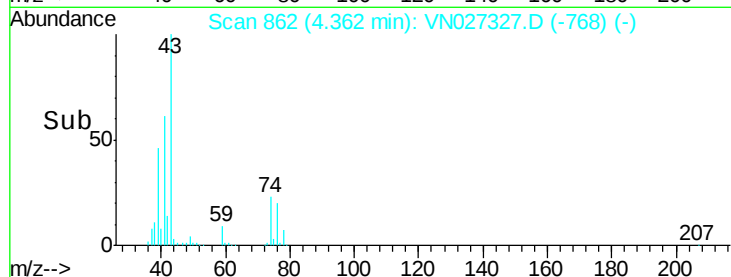
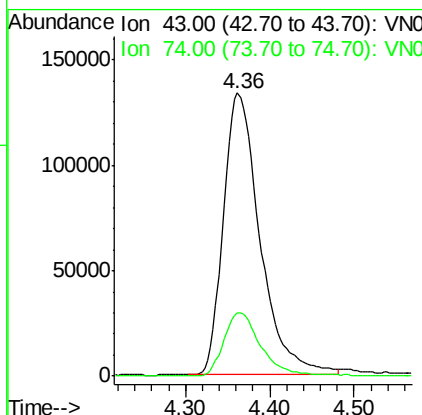
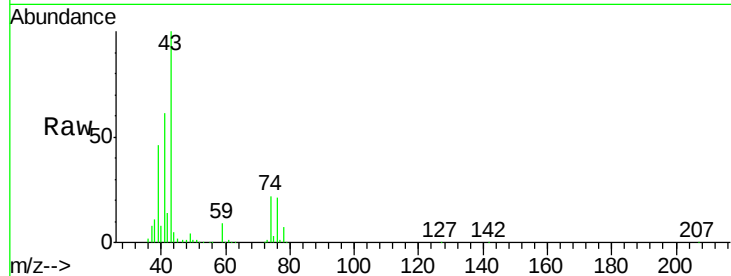
#19
Methvl Acetate
Concen: 17.89 ug/l
RT: 4.36 min Scan# 862
Delta R.T. 0.00 min
Lab File: VN027327.D
Acq: 21 Sep 2015 11:14

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	43	Resp	404755
Ion Ratio	100	Lower	Upper
74	22.5	16.2	24.2

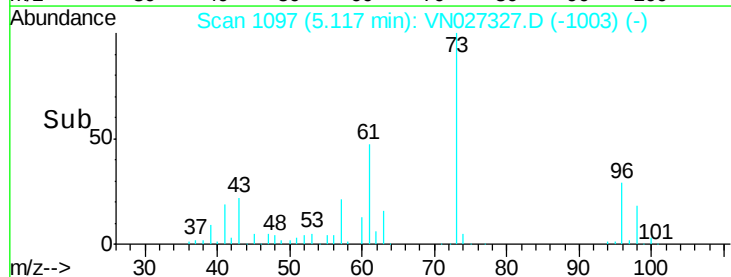
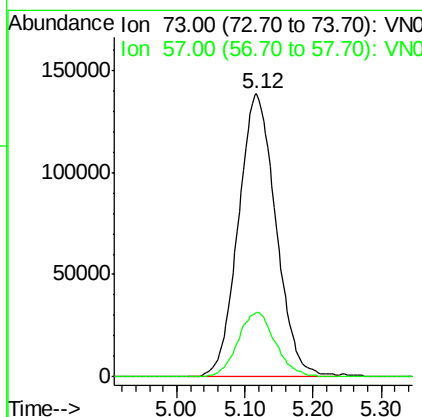
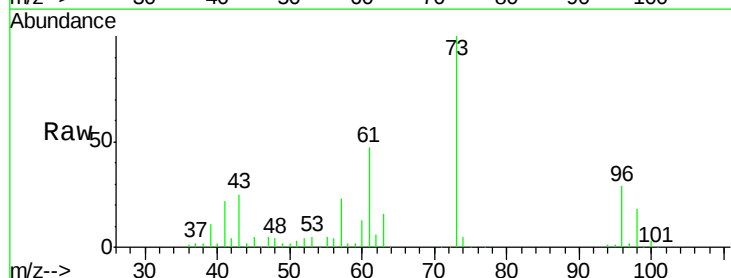
Manual Integrations
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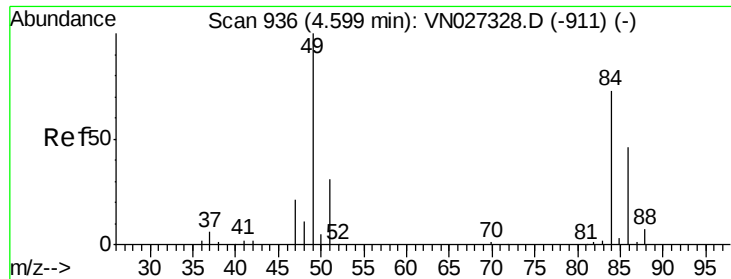
MMDadoda
9/22/2015 2:27:49 PM



#20
Methyl tert-butyl Ether
Concen: 18.20 ug/l
RT: 5.12 min Scan# 1097
Delta R.T. 0.00 min
Lab File: VN027327.D
Acq: 21 Sep 2015 11:14

Tgt Ion	73	Resp	530293
Ion Ratio	100	Lower	Upper
57	22.5	19.8	29.6





#21

Methylene Chloride

Concen: 18.18 ug/l

RT: 4.60 min Scan# 936

Delta R.T. 0.00 min

Lab File: VN027327.D

Acq: 21 Sep 2015 11:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 84 Resp: 158172

Ion Ratio Lower Upper

84 100

49 142.4 112.3 168.5

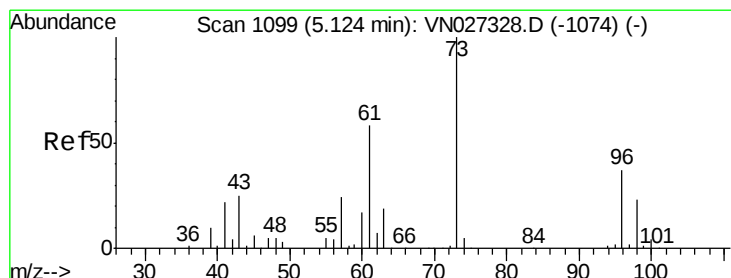
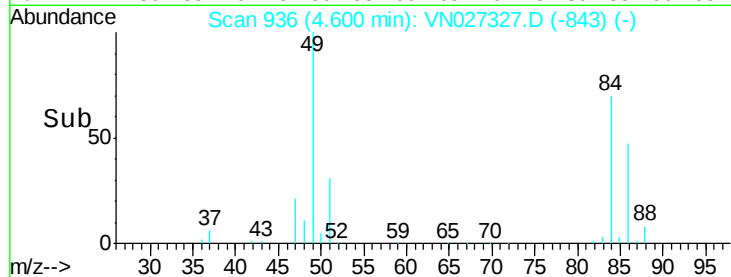
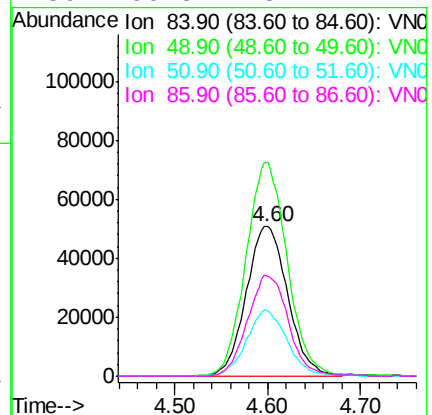
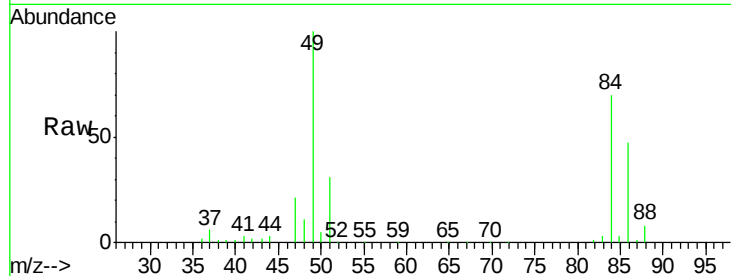
51 44.0 33.8 50.8

86 66.8 48.2 72.4

Manual Integrations
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#22

trans-1,2-Dichloroethene

Concen: 18.07 ug/l

RT: 5.12 min Scan# 1099

Delta R.T. 0.00 min

Lab File: VN027327.D

Acq: 21 Sep 2015 11:14

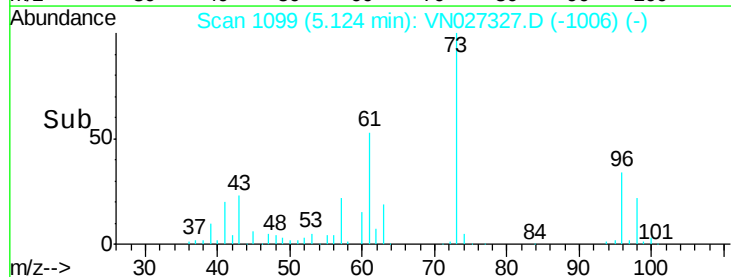
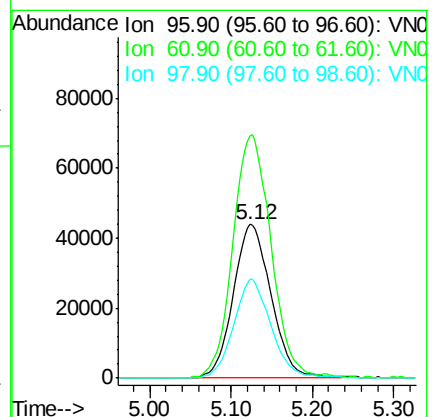
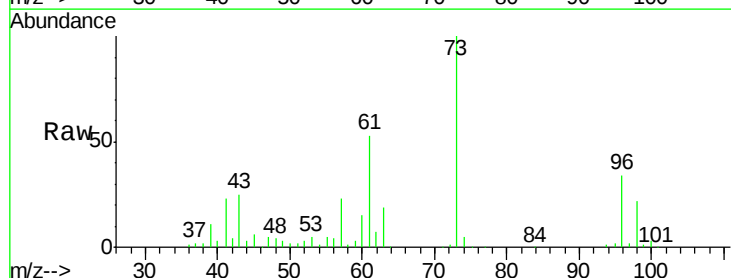
Tgt Ion: 96 Resp: 141875

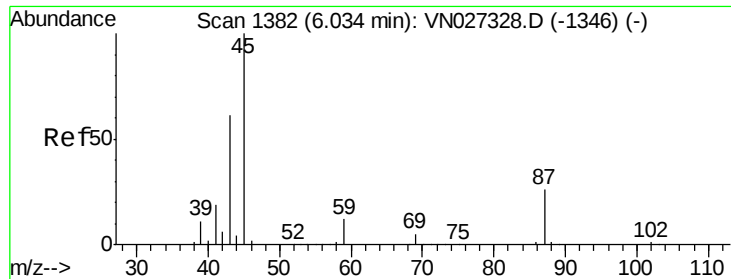
Ion Ratio Lower Upper

96 100

61 156.9 126.6 189.8

98 64.0 47.4 71.2





#23

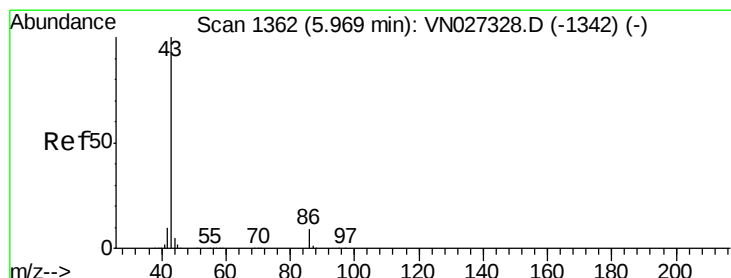
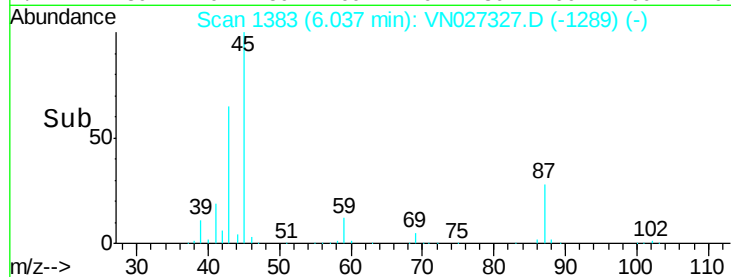
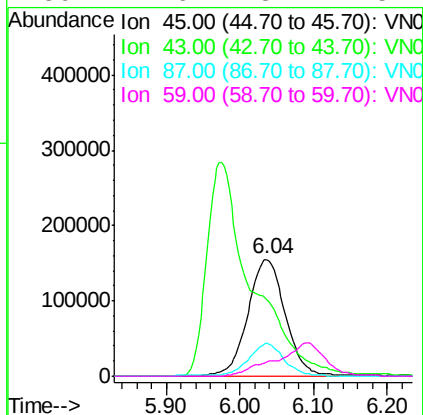
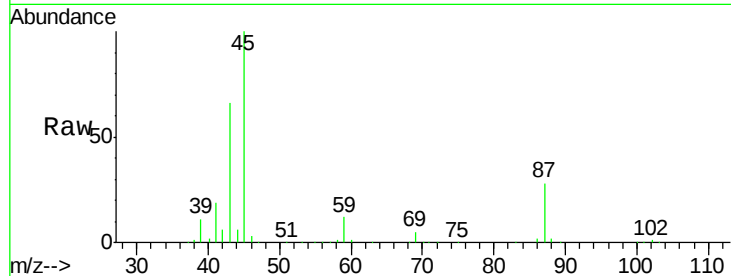
Diisopropyl ether
Concen: 17.82 ug/l
RT: 6.04 min Scan# 1383
Delta R.T. 0.00 min
Lab File: VN027327.D
Acq: 21 Sep 2015 11:14

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ion	Ratio	Lower	Upper
45	100			
43	62.2	41.0	61.6#	
87	27.7	17.5	26.3#	
59	11.6	8.7	13.1	

Manual Integrations
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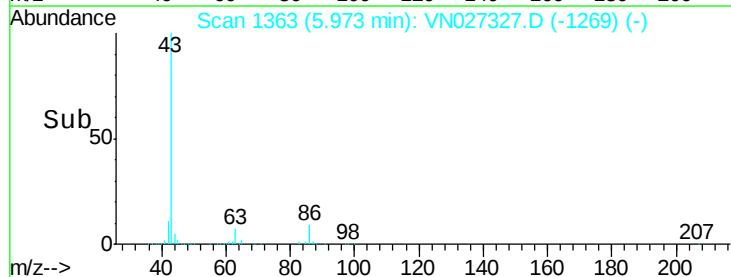
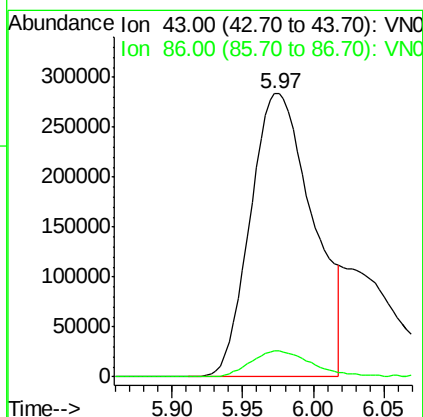
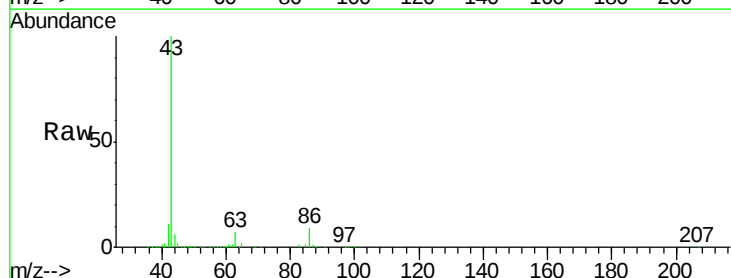
MMDadoda
9/22/2015 2:27:49 PM

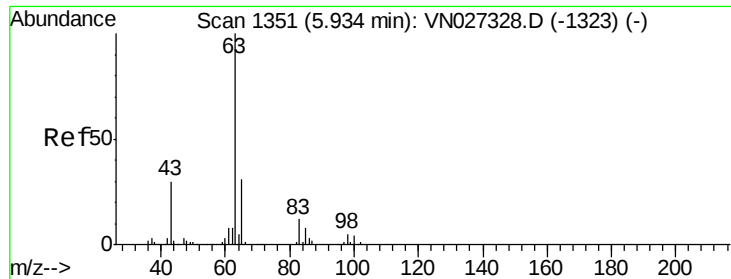


#24

Vinyl Acetate
Concen: 85.51 ug/l m
RT: 5.97 min Scan# 1363
Delta R.T. 0.00 min
Lab File: VN027327.D
Acq: 21 Sep 2015 11:14

Tgt Ion	Ion	Ratio	Lower	Upper
43	100			
86	9.1	6.9	10.3	





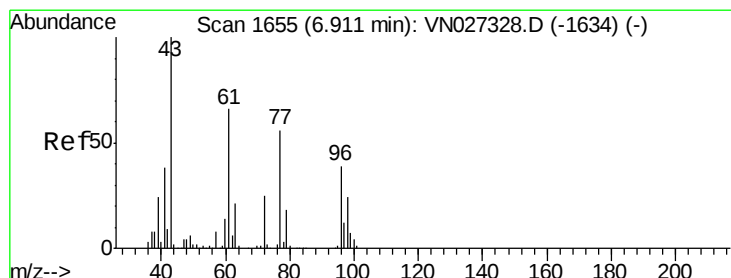
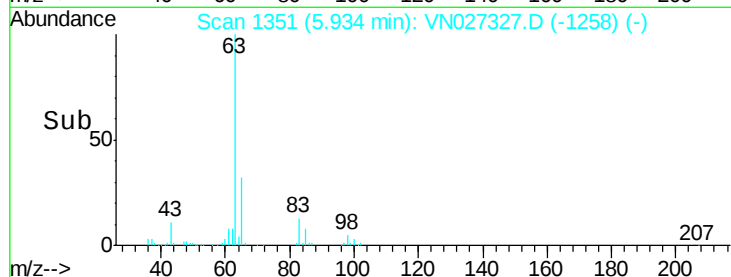
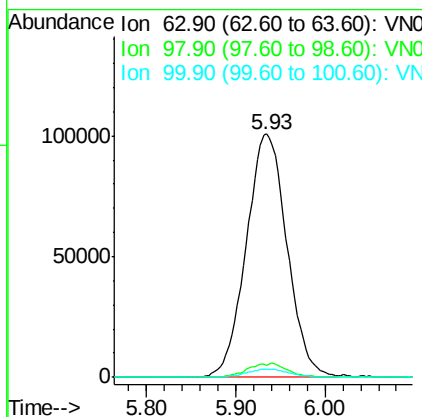
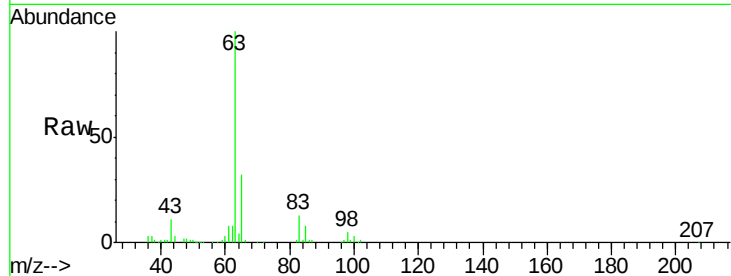
#25
 1,1-Dichloroethane
 Concen: 17.91 ug/l
 RT: 5.93 min Scan# 1351
 Delta R.T. 0.00 min
 Lab File: VN027327.D
 Acq: 21 Sep 2015 11:14

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC020

Tot Ion	Ratio	Resp Lower	Upper
63	100		
98	5.1	2.8	8.3
100	3.3	1.7	5.0

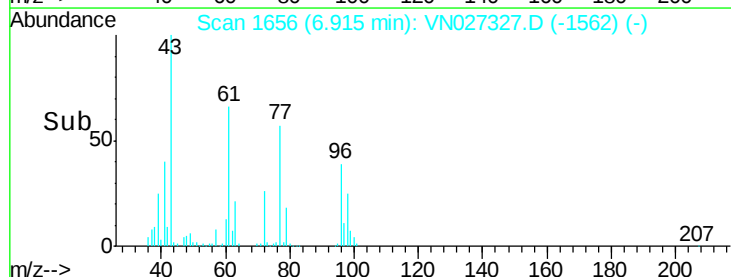
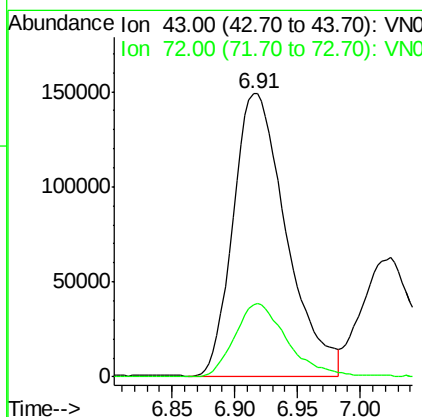
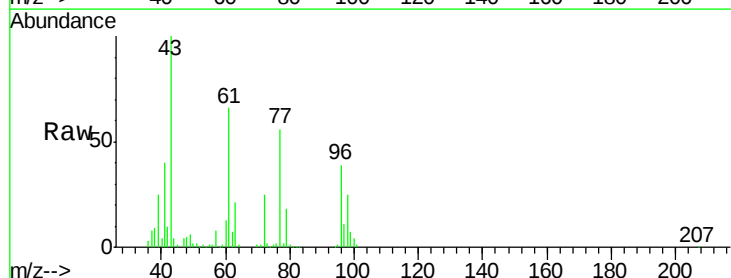
Manual Integrations
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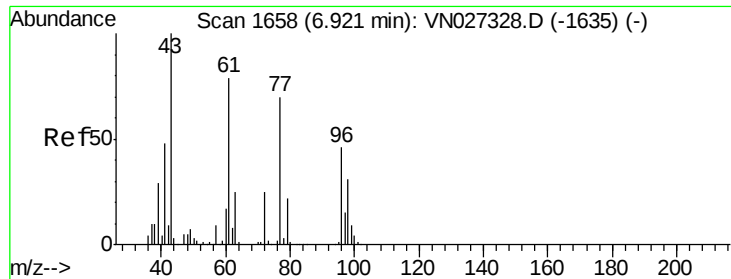
MMDadoda
 9/22/2015 2:27:49 PM



#26
 2-Butanone
 Concen: 92.70 ug/l
 RT: 6.91 min Scan# 1656
 Delta R.T. 0.00 min
 Lab File: VN027327.D
 Acq: 21 Sep 2015 11:14

Tgt Ion	Ratio	Resp Lower	Upper
43	100		
72	25.5	18.8	28.2





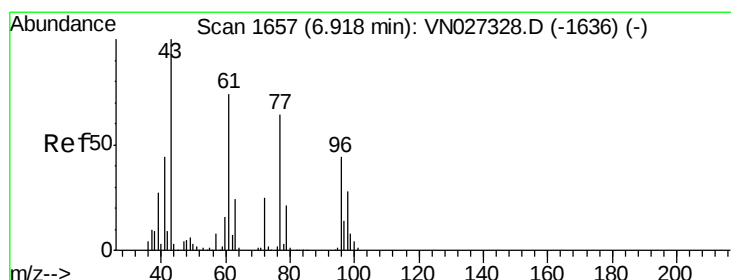
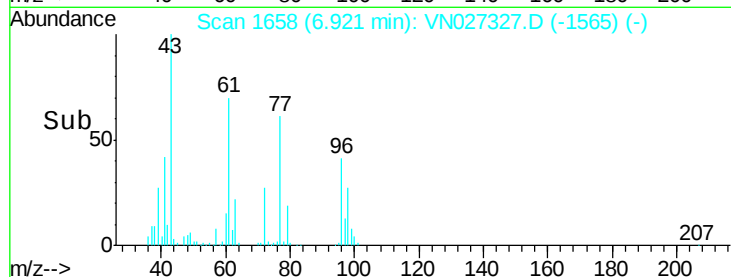
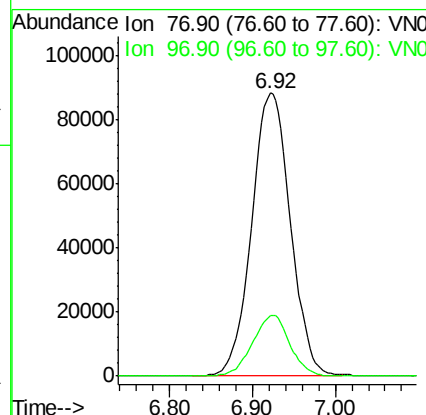
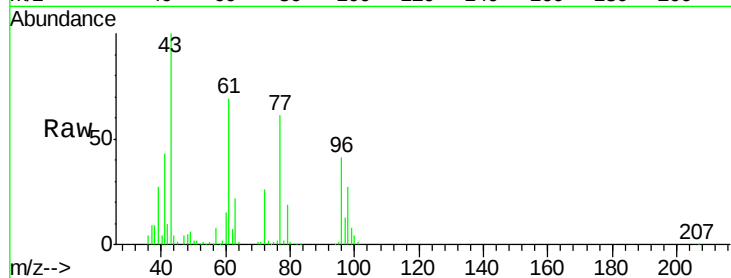
#27
 2,2-Dichloropropane
 Concen: 18.49 ug/l
 RT: 6.92 min Scan# 1658
 Delta R.T. 0.00 min
 Lab File: VN027327.D
 Acq: 21 Sep 2015 11:14

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
77	100		
97	20.7	11.8	35.3

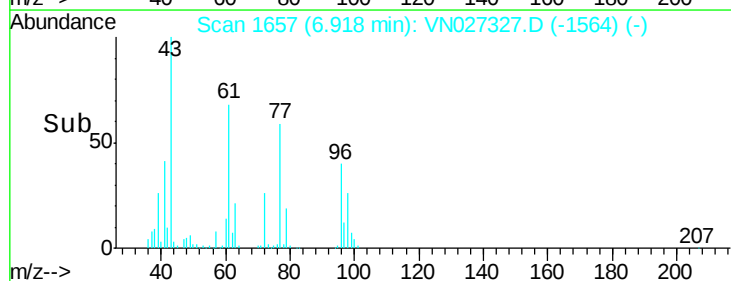
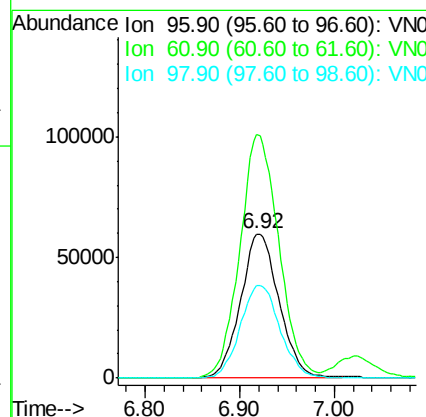
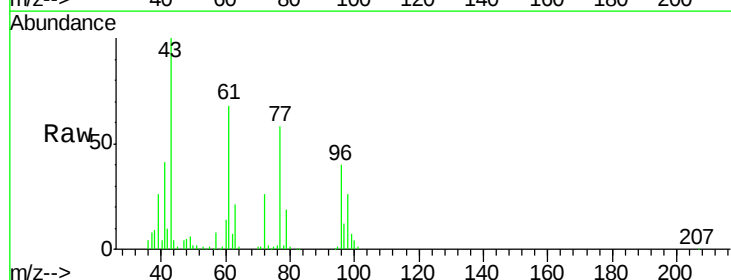
Manual Integrations
 APPROVED

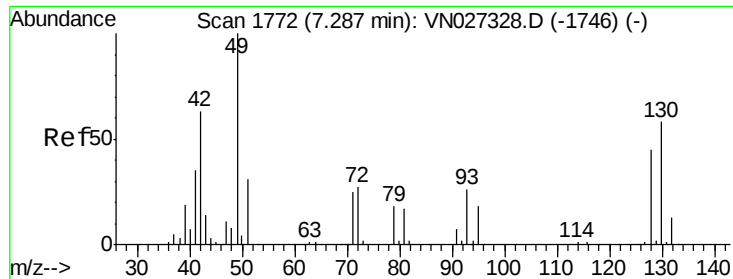
MMDadoda
 9/22/2015 2:27:49 PM



#28
 cis-1,2-Dichloroethene
 Concen: 18.78 ug/l
 RT: 6.92 min Scan# 1657
 Delta R.T. 0.00 min
 Lab File: VN027327.D
 Acq: 21 Sep 2015 11:14

Tgt Ion	Ratio	Lower	Upper
96	100		
61	170.5	0.0	329.2
98	66.3	0.0	126.0





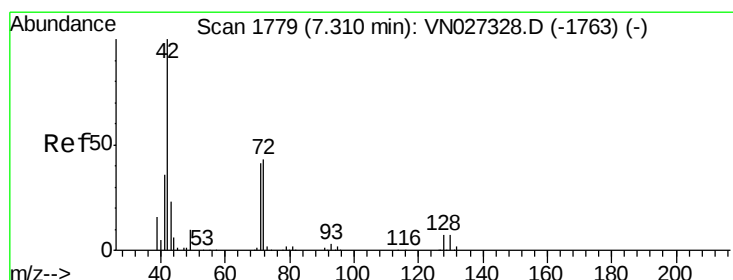
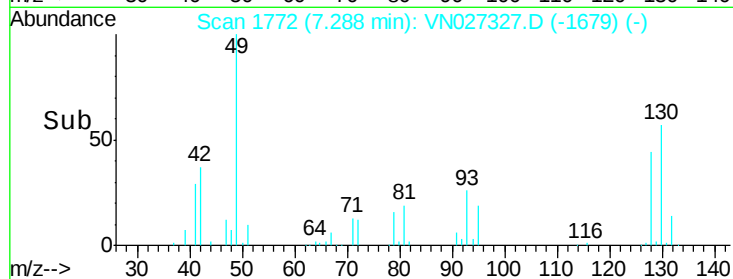
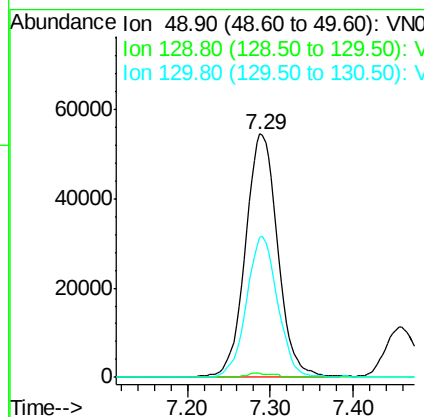
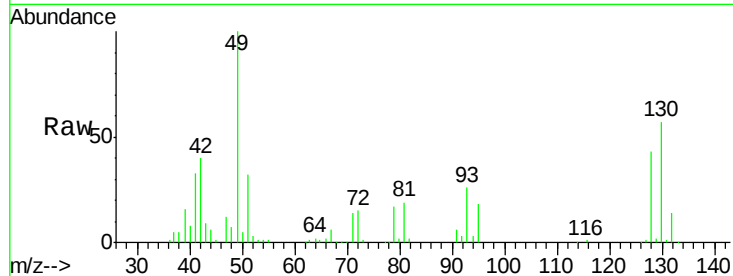
#29
Bromochloromethane
Concen: 21.26 ug/l
RT: 7.29 min Scan# 1772
Delta R.T. 0.00 min
Lab File: VN027327.D
Acq: 21 Sep 2015 11:14

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
49	100		
129	1.0	0.0	3.2
130	55.6	43.2	64.8

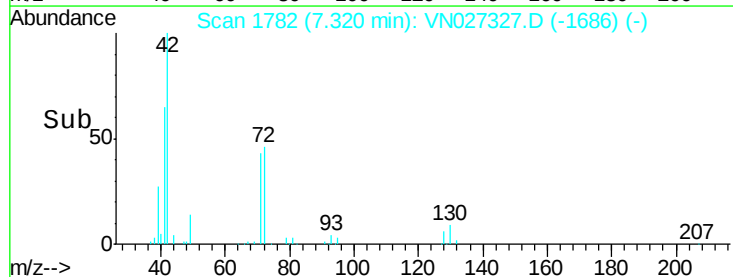
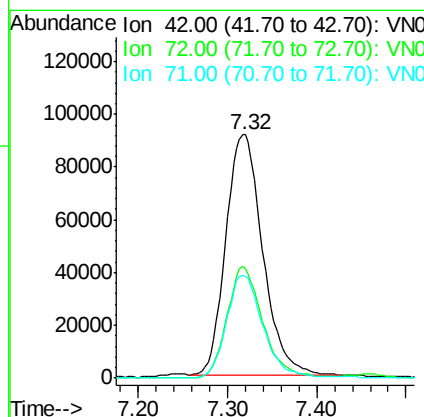
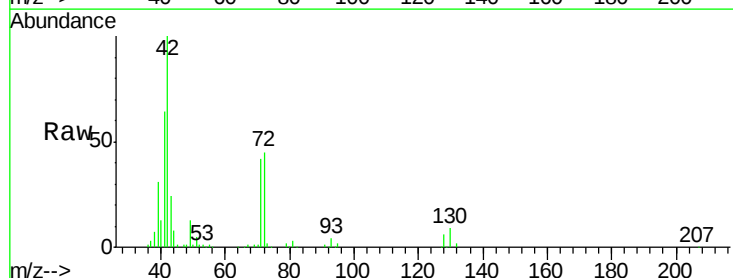
Manual Integrations
APPROVED

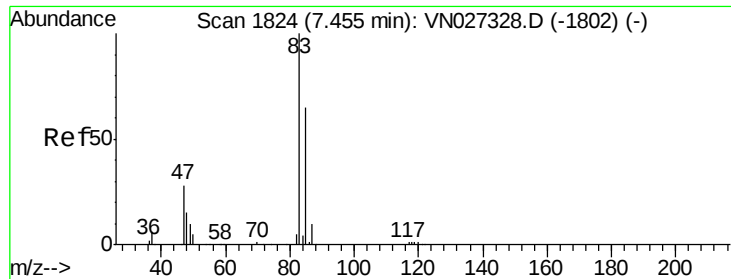
MMDadoda
9/22/2015 2:27:49 PM



#30
Tetrahydrofuran
Concen: 80.18 ug/l
RT: 7.32 min Scan# 1782
Delta R.T. 0.01 min
Lab File: VN027327.D
Acq: 21 Sep 2015 11:14

Tgt Ion	Ratio	Lower	Upper
42	100		
72	45.1	29.9	44.9#
71	42.5	28.3	42.5#





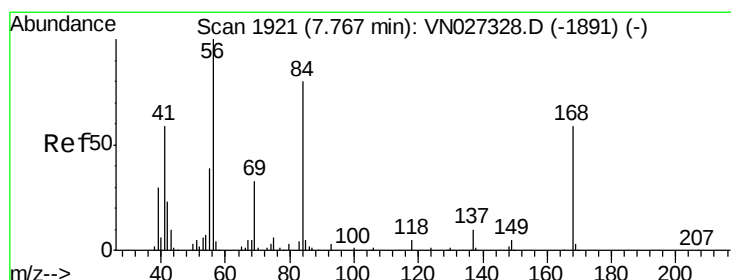
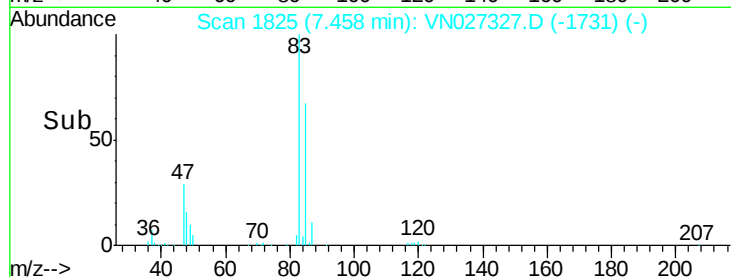
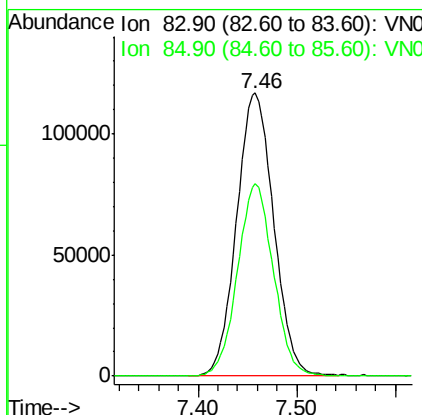
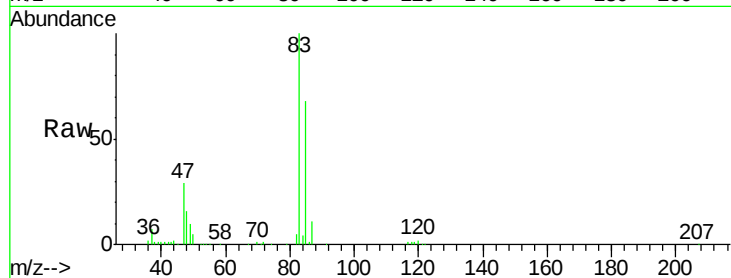
#31
Chloroform
Concen: 18.90 ug/l
RT: 7.46 min Scan# 1825
Delta R.T. 0.00 min
Lab File: VN027327.D
Acq: 21 Sep 2015 11:14

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion	83	Resp	305119
Ion Ratio	100	Lower	Upper
85	67.8	51.1	76.7

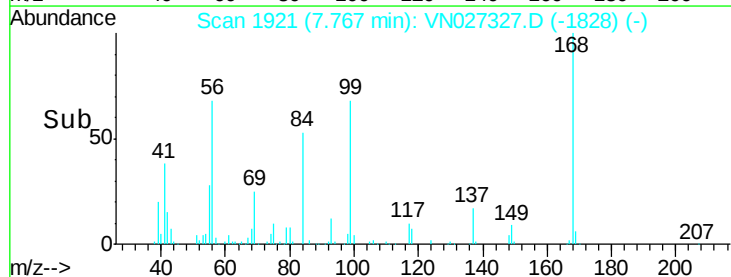
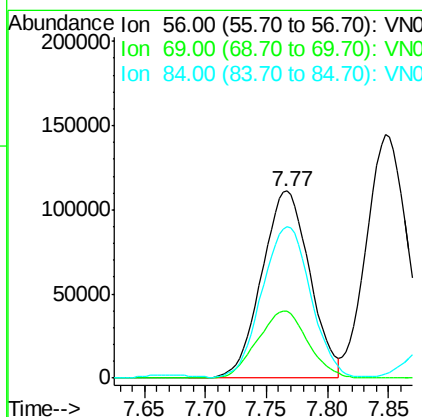
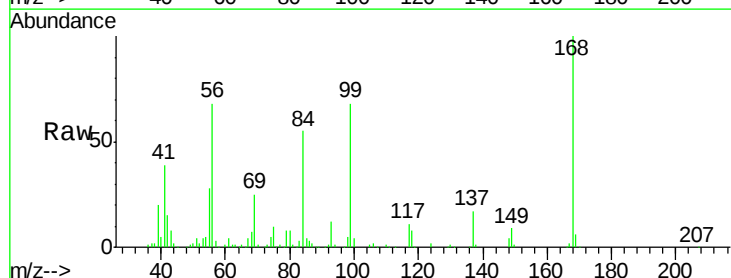
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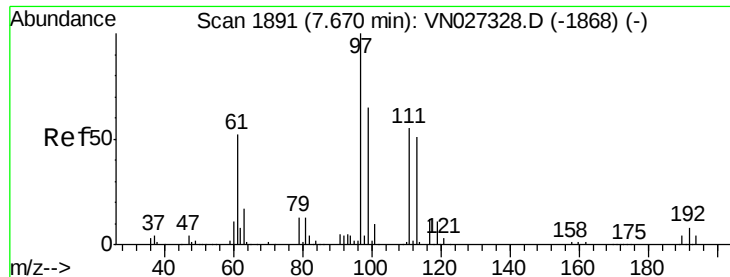
MMDadoda
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#32
Cyclohexane
Concen: 15.32 ug/l
RT: 7.77 min Scan# 1921
Delta R.T. 0.00 min
Lab File: VN027327.D
Acq: 21 Sep 2015 11:14

Tgt Ion	56	Resp	303968
Ion Ratio	100	Lower	Upper
69	36.0	23.0	34.4#
84	79.6	57.8	86.8





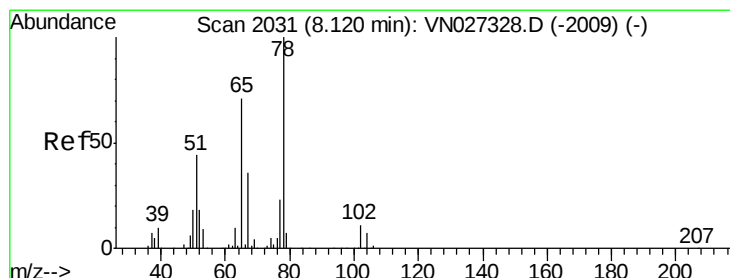
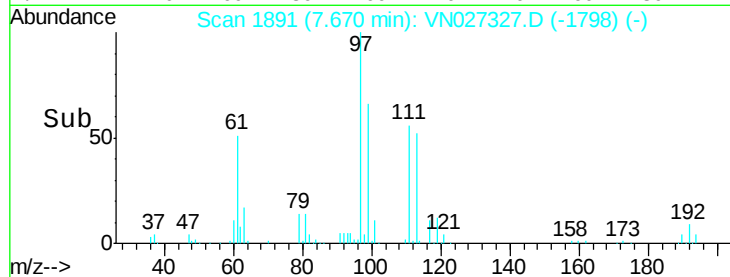
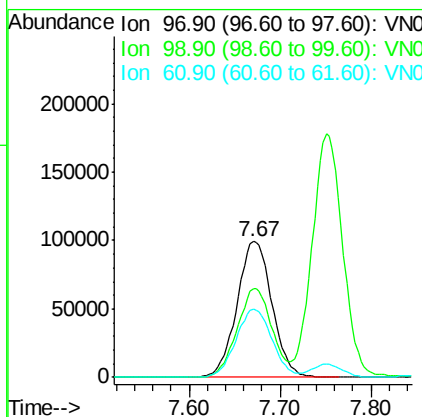
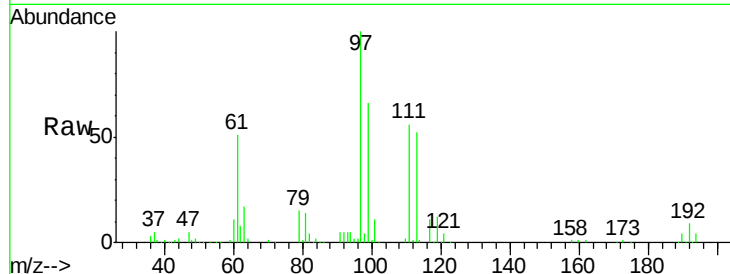
#33
 1,1,1-Trichloroethane
 Concen: 18.45 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. 0.00 min
 Lab File: VN027327.D
 Acq: 21 Sep 2015 11:14

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
97	100		
99	64.5	50.1	75.1
61	51.7	44.0	66.0

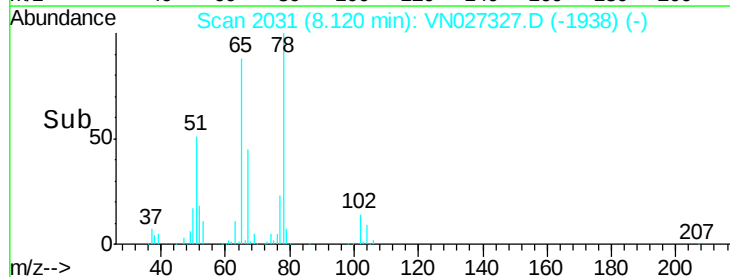
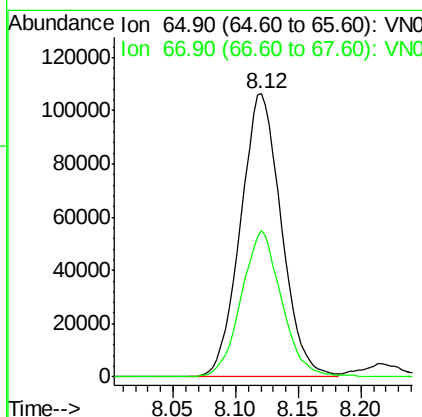
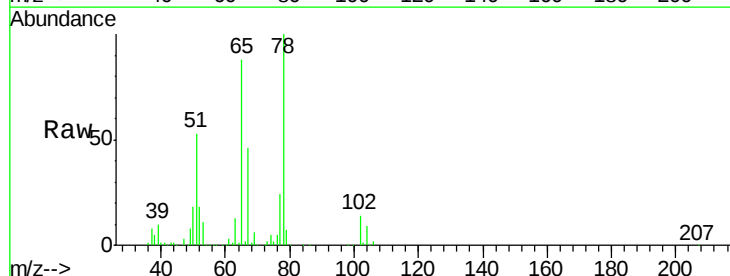
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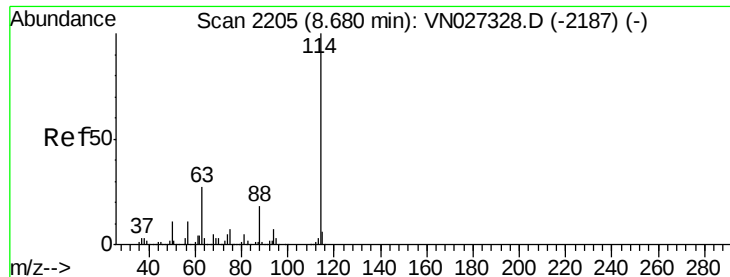
MMDadoda
 9/22/2015 2:27:49 PM



#34
 1,2-Dichloroethane-d4
 Concen: 20.79 ug/l
 RT: 8.12 min Scan# 2031
 Delta R.T. 0.00 min
 Lab File: VN027327.D
 Acq: 21 Sep 2015 11:14

Tgt Ion	Ratio	Lower	Upper
65	100		
67	51.1	0.0	110.6





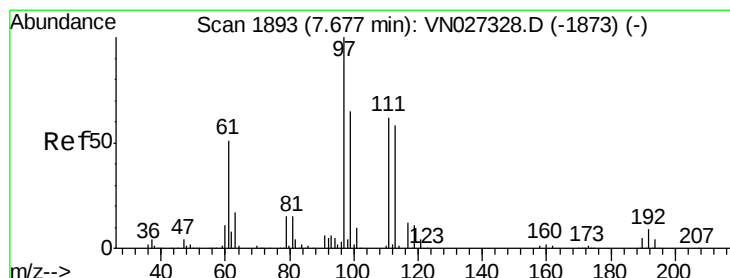
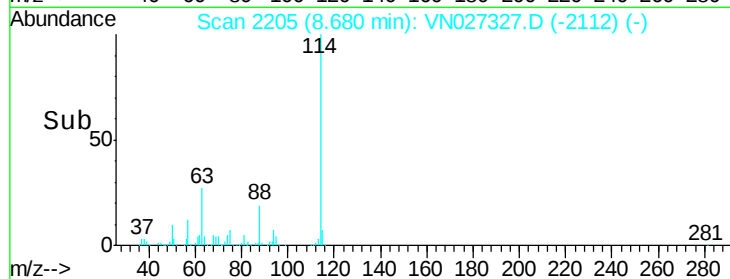
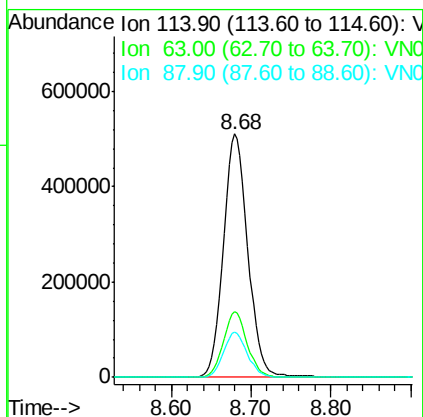
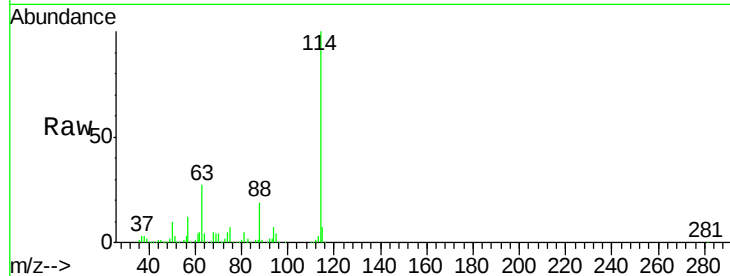
#35
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.68 min Scan# 2205
 Delta R.T. 0.00 min
 Lab File: VN027327.D
 Acq: 21 Sep 2015 11:14

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
114	100		
63	27.1	0.0	48.8
88	18.6	0.0	32.2

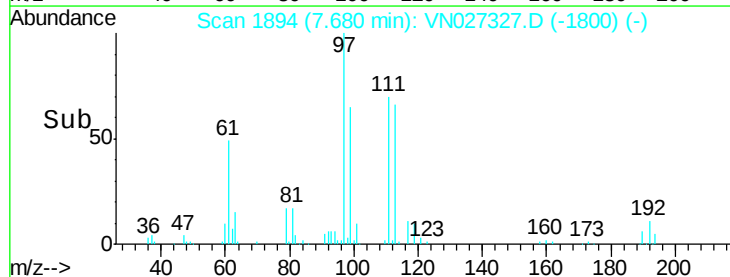
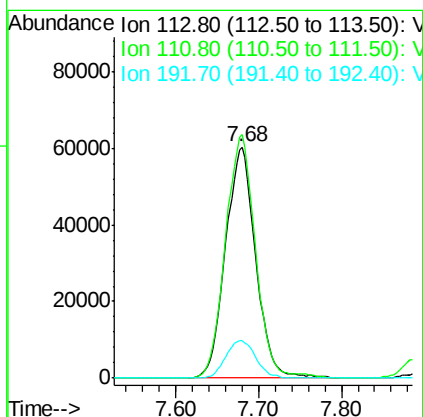
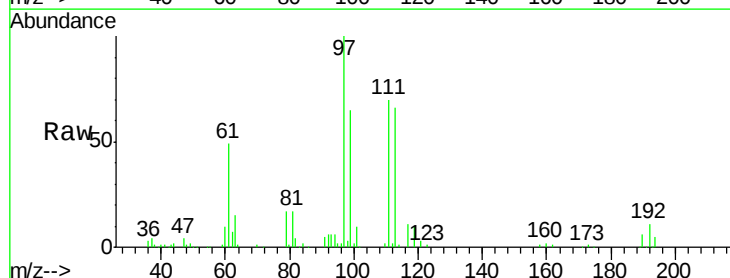
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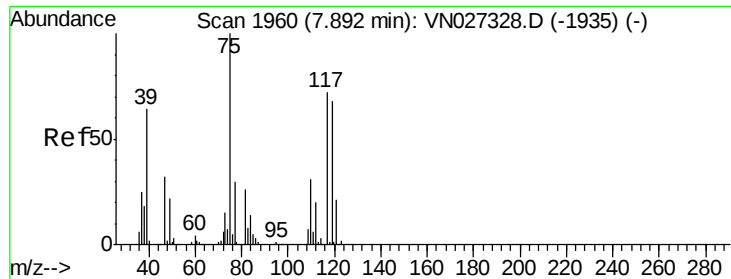
MMDadoda
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#36
 Dibromofluoromethane
 Concen: 20.59 ug/l
 RT: 7.68 min Scan# 1894
 Delta R.T. 0.00 min
 Lab File: VN027327.D
 Acq: 21 Sep 2015 11:14

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.9	83.0	124.4
192	16.1	14.1	21.1





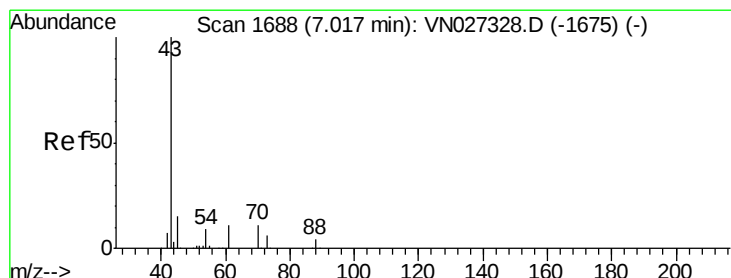
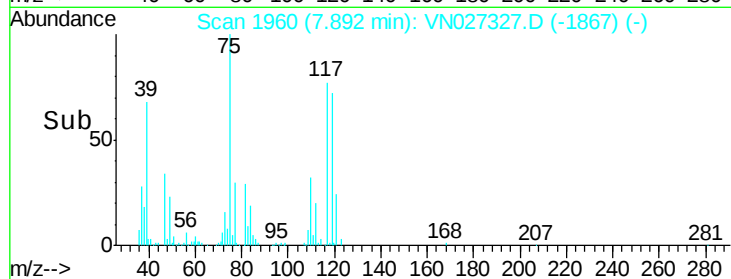
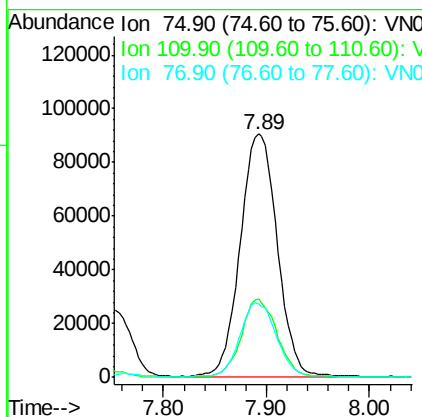
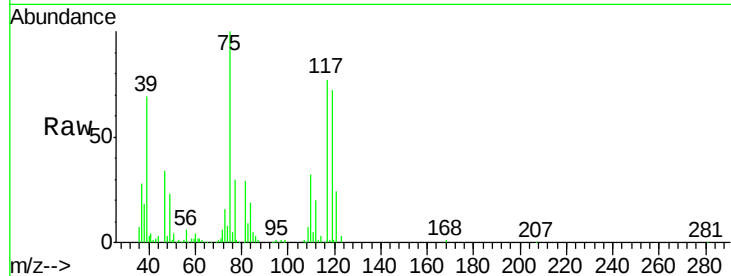
#37
 1,1-Dichloropropene
 Concen: 17.92 ug/l
 RT: 7.89 min Scan# 1960
 Delta R.T. 0.00 min
 Lab File: VN027327.D
 Acq: 21 Sep 2015 11:14

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
75	100		
110	31.5	15.9	47.7
77	31.0	24.9	37.3

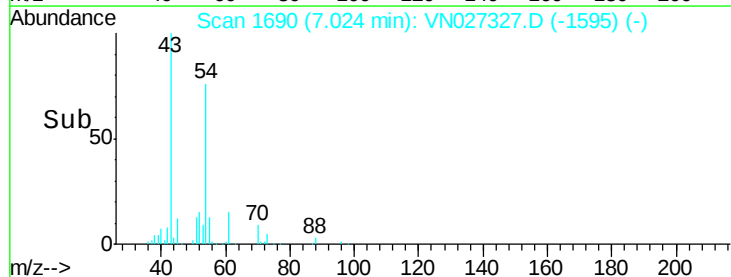
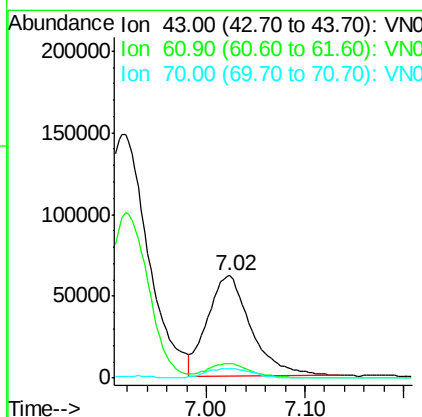
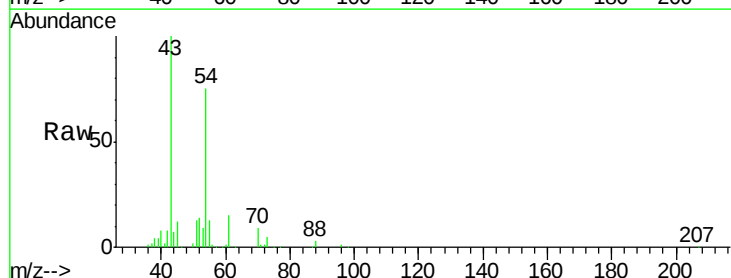
Manual Integrations
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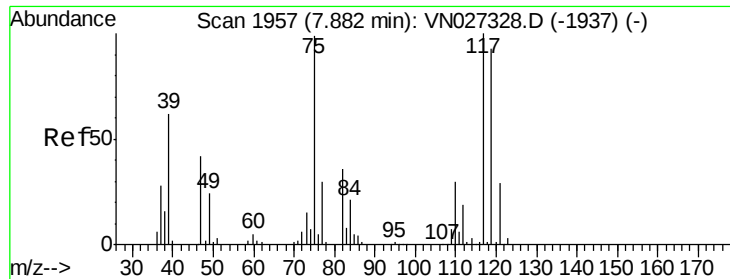
MMDadoda
 9/22/2015 2:27:49 PM



#38
 Ethyl Acetate
 Concen: 16.46 ug/l
 RT: 7.02 min Scan# 1690
 Delta R.T. 0.01 min
 Lab File: VN027327.D
 Acq: 21 Sep 2015 11:14

Tgt Ion	Ratio	Lower	Upper
43	100		
61	13.7	10.2	15.4
70	9.6	7.4	11.0





#39

Carbon Tetrachloride

Concen: 18.20 ug/l

RT: 7.88 min Scan# 1956

Delta R.T. -0.00 min

Lab File: VN027327.D

Acq: 21 Sep 2015 11:14

Instrument :

MSVOA_N

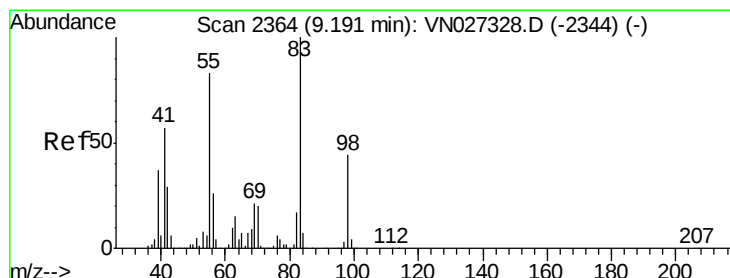
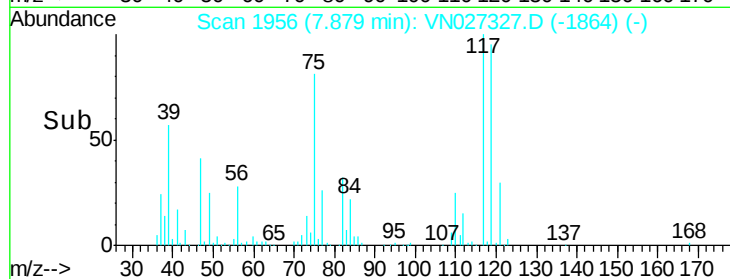
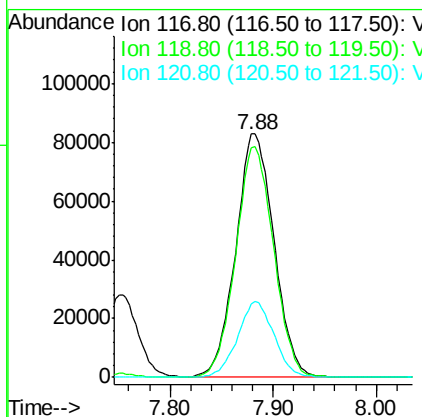
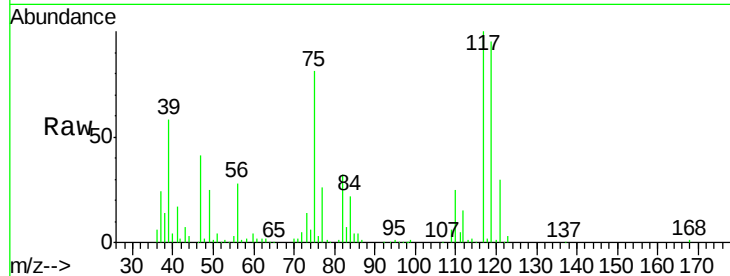
ClientSampled :

VSTDIC020

Tot Ion:	117	Resp:	214254
Ion Ratio	Lower	Upper	
117	100		
119	94.5	75.3	112.9
121	30.1	23.8	35.8

Manual Integrations
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#40

Methylcyclohexane

Concen: 17.48 ug/l

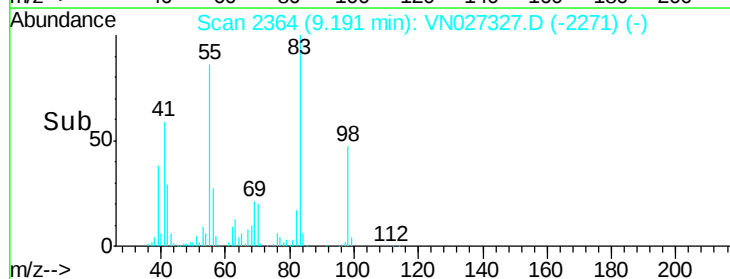
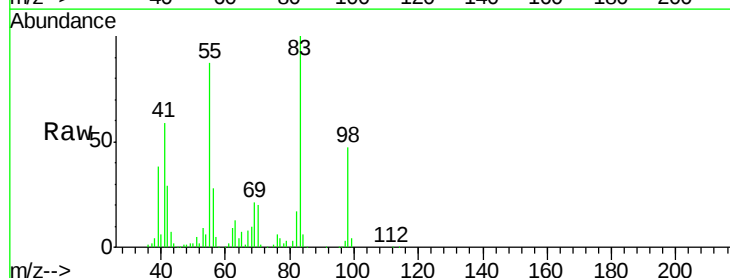
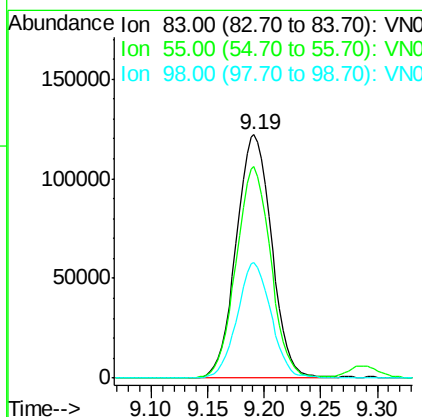
RT: 9.19 min Scan# 2364

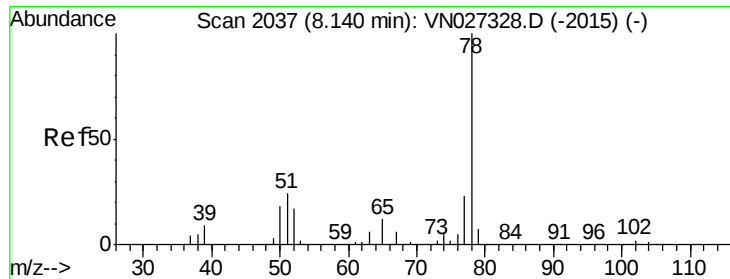
Delta R.T. 0.00 min

Lab File: VN027327.D

Acq: 21 Sep 2015 11:14

Tgt Ion:	83	Resp:	266516
Ion Ratio	Lower	Upper	
83	100		
55	86.6	69.8	104.8
98	47.4	34.3	51.5





#41

Benzene

Concen: 18.24 ug/l

RT: 8.14 min Scan# 2037

Delta R.T. 0.00 min

Lab File: VN027327.D

Acq: 21 Sep 2015 11:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 78 Resp: 666482

Ion Ratio Lower Upper

78 100

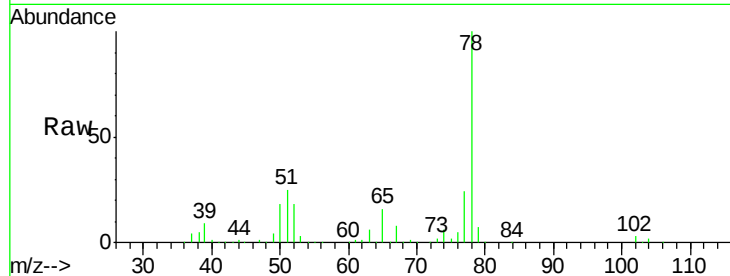
77 24.1 19.0 28.4

Manual Integrations

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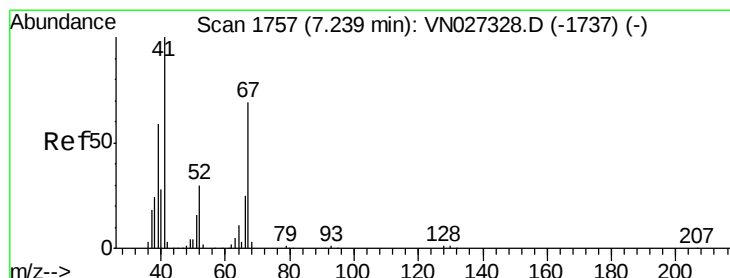
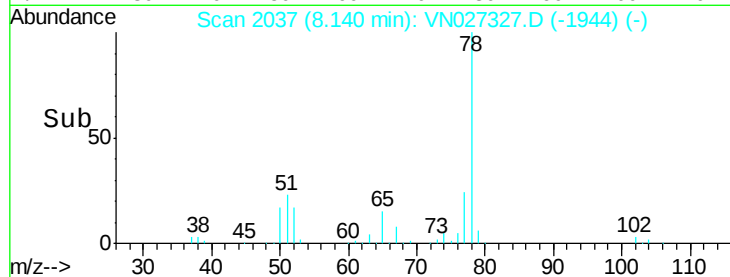
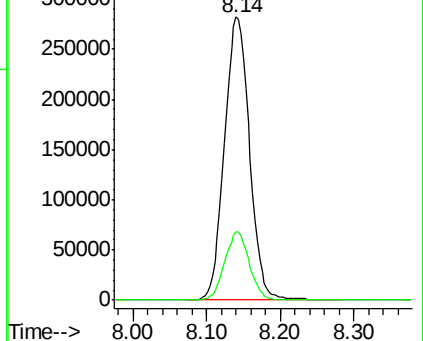
MMDadoda

9/22/2015 2:27:49 PM



Abundance Ion 78.00 (77.70 to 78.70): VNC

Ion 77.00 (76.70 to 77.70): VNC



#42

Methacrylonitrile

Concen: 17.19 ug/l

RT: 7.24 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VN027327.D

Acq: 21 Sep 2015 11:14

Tgt Ion: 41 Resp: 104019

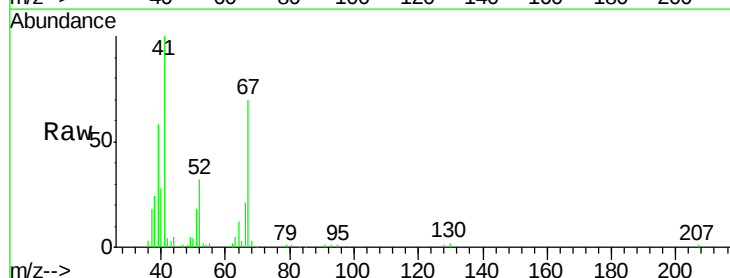
Ion Ratio Lower Upper

41 100

39 60.0 43.0 64.6

67 76.4 52.2 78.2

52 35.6 21.3 31.9#

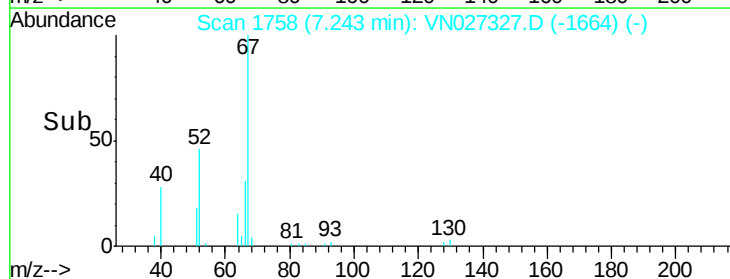
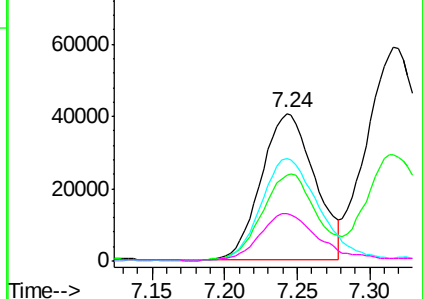


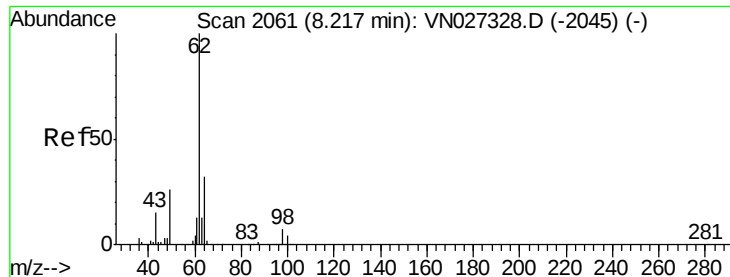
Abundance Ion 41.00 (40.70 to 41.70): VNC

Ion 39.00 (38.70 to 39.70): VNC

Ion 67.00 (66.70 to 67.70): VNC

Ion 52.00 (51.70 to 52.70): VNC





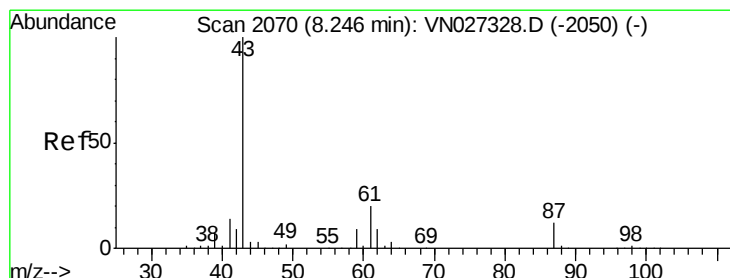
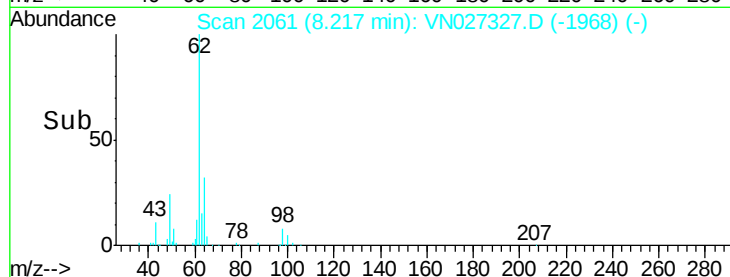
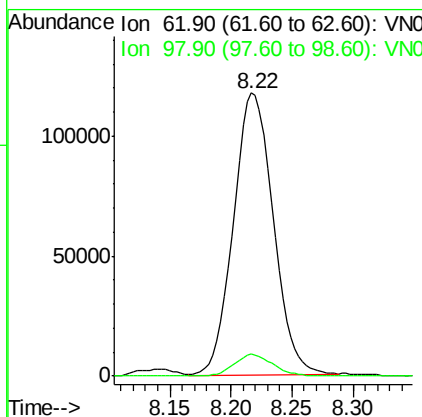
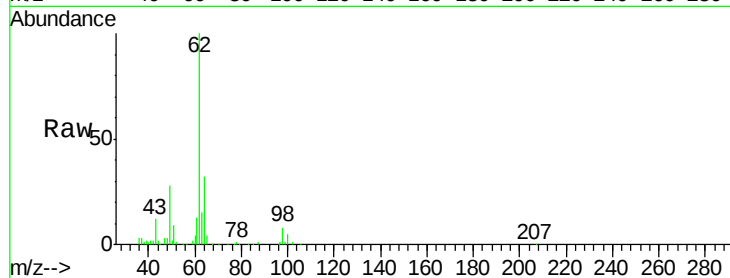
#43
 1,2-Dichloroethane
 Concen: 18.08 ug/l
 RT: 8.22 min Scan# 2061
 Delta R.T. 0.00 min
 Lab File: VN027327.D
 Acq: 21 Sep 2015 11:14

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
62	100	266140		
98	7.7	0.0	18.0	

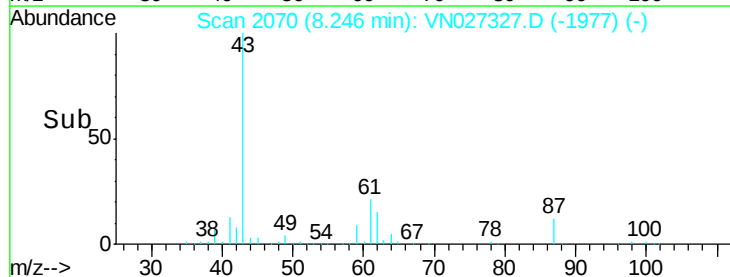
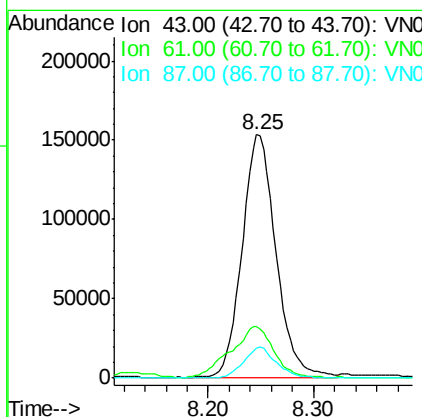
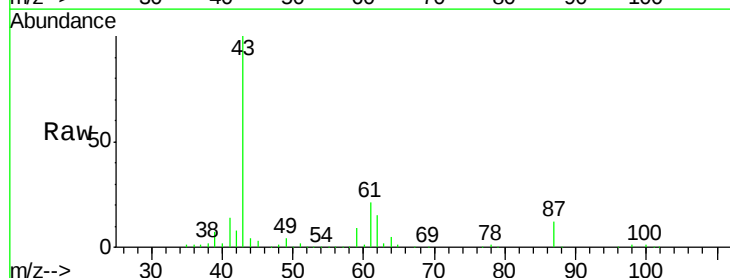
Manual Integrations
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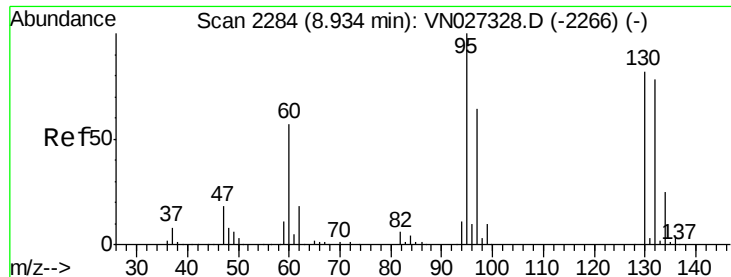
MMDadoda
 9/22/2015 2:27:49 PM



#44
 Isopropyl Acetate
 Concen: 17.03 ug/l
 RT: 8.25 min Scan# 2070
 Delta R.T. 0.00 min
 Lab File: VN027327.D
 Acq: 21 Sep 2015 11:14

Tgt Ion	Ratio	Resp	Lower	Upper
43	100	340813		
61	26.8	20.6	31.0	
87	12.3	8.6	13.0	





#45

Trichloroethene

Concen: 17.92 ug/l

RT: 8.94 min Scan# 2285

Delta R.T. 0.00 min

Lab File: VN027327.D

Acq: 21 Sep 2015 11:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion:130 Resp: 131496

Ion Ratio Lower Upper

130 100

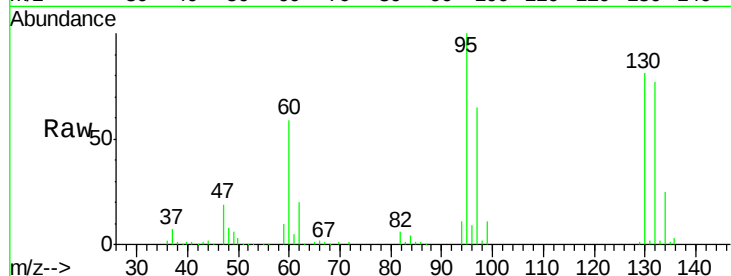
95 122.7 0.0 222.2

Manual Integrations

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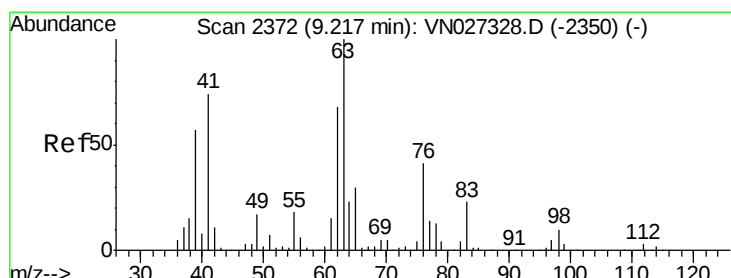
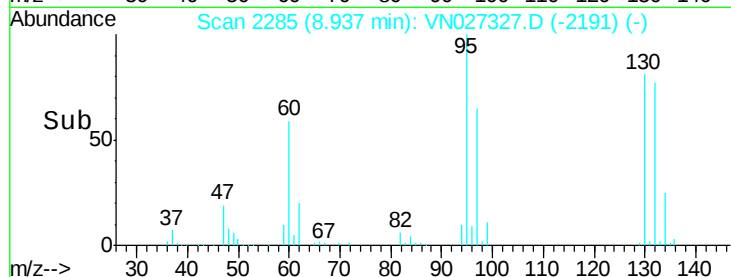
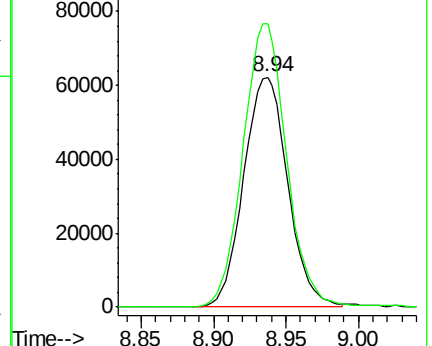
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Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN



#46

1,2-Dichloropropane

Concen: 17.85 ug/l

RT: 9.22 min Scan# 2372

Delta R.T. 0.00 min

Lab File: VN027327.D

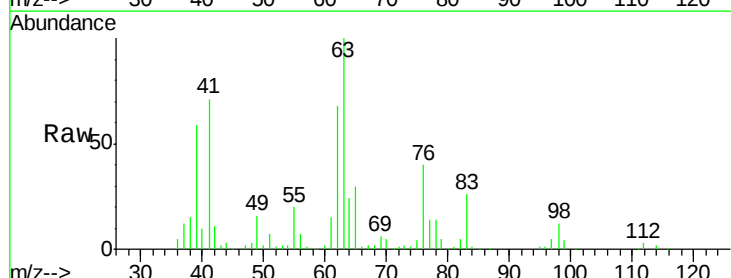
Acq: 21 Sep 2015 11:14

Tgt Ion: 63 Resp: 187564

Ion Ratio Lower Upper

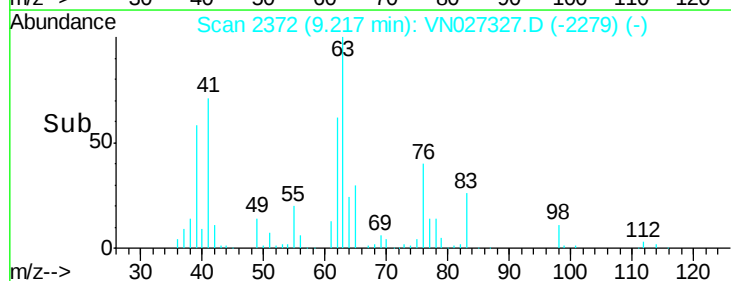
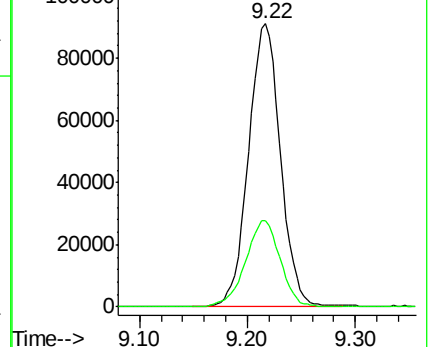
63 100

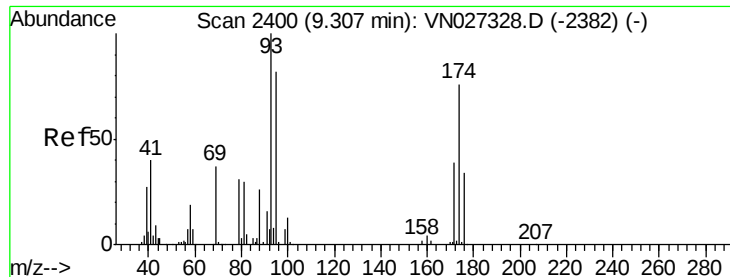
65 30.4 24.4 36.6



Abundance Ion 62.90 (62.60 to 63.60): VN

Ion 64.90 (64.60 to 65.60): VN





#47

Dibromomethane

Concen: 17.89 ug/l

RT: 9.31 min Scan# 2400

Delta R.T. 0.00 min

Lab File: VN027327.D

Acq: 21 Sep 2015 11:14

Instrument :

MSVOA_N

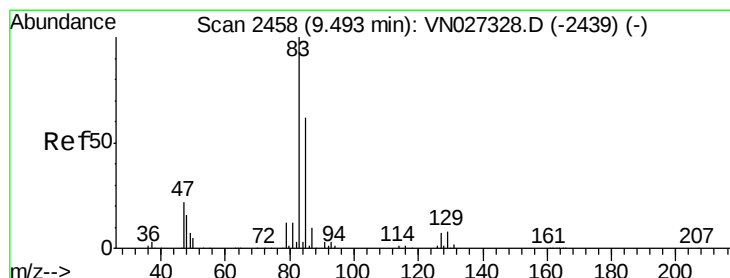
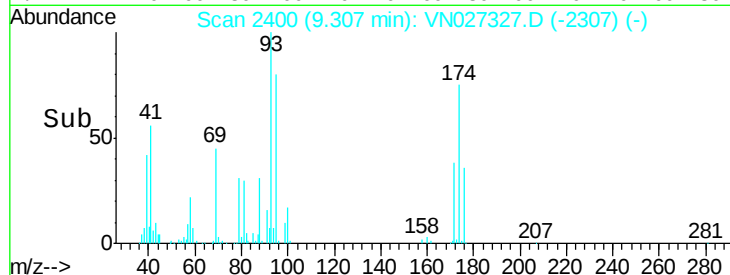
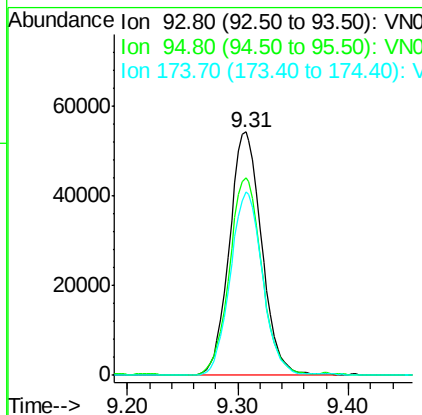
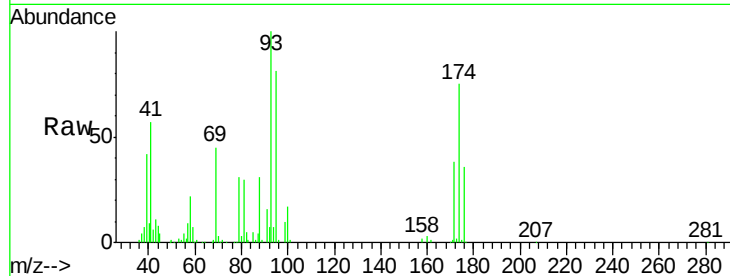
ClientSampleId :

VSTDIC020

Tot Ion:	93	Resp:	110391
Ion Ratio	Lower	Upper	
93	100		
95	81.6	66.3	99.5
174	75.3	67.8	101.6

Manual Integrations
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#48

Bromodichloromethane

Concen: 18.12 ug/l

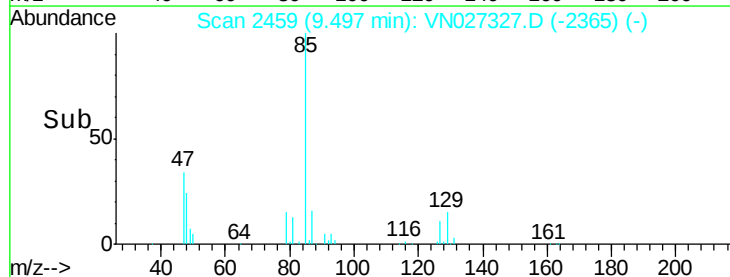
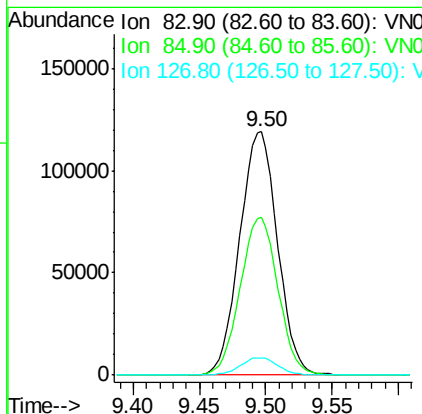
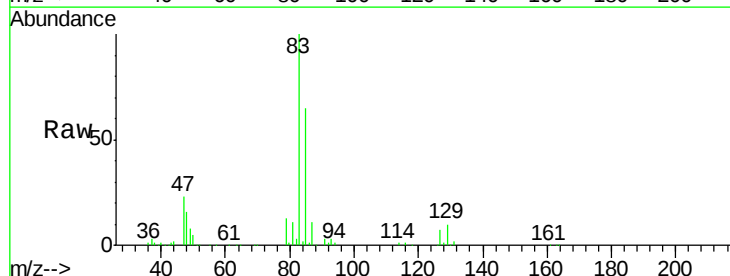
RT: 9.50 min Scan# 2459

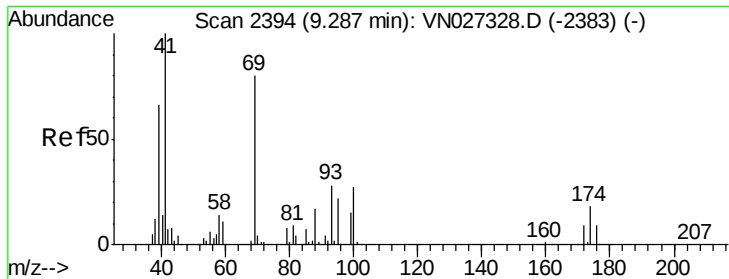
Delta R.T. 0.00 min

Lab File: VN027327.D

Acq: 21 Sep 2015 11:14

Tgt Ion:	83	Resp:	235642
Ion Ratio	Lower	Upper	
83	100		
85	64.7	50.7	76.1
127	7.1	5.5	8.3





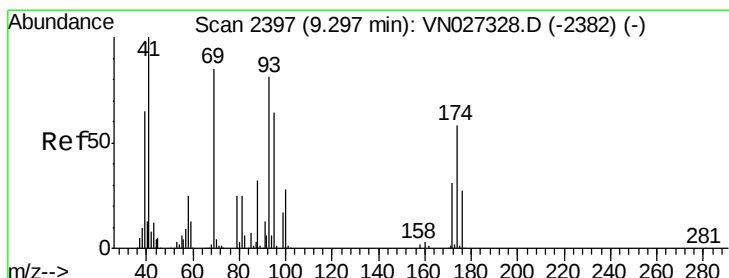
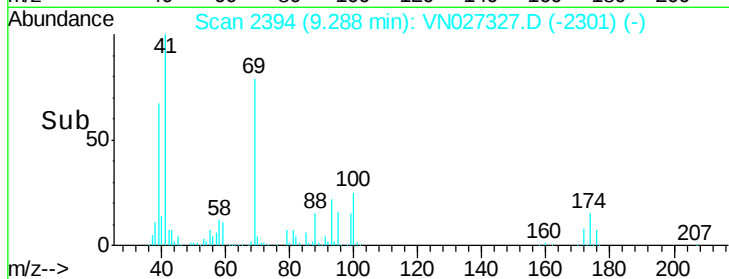
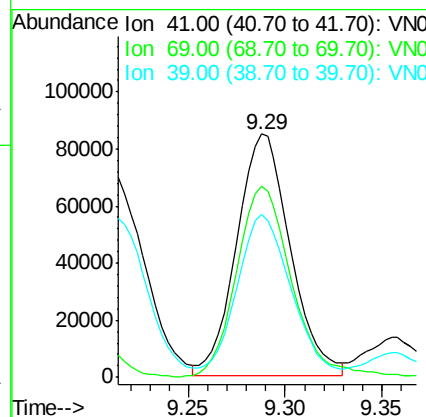
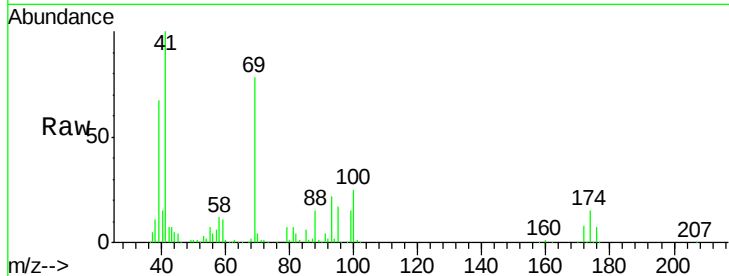
#49
Methvl methacrylate
Concen: 16.38 ug/l
RT: 9.29 min Scan# 2394
Delta R.T. 0.00 min
Lab File: VN027327.D
Acq: 21 Sep 2015 11:14

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
41	100	163240		
69	80.5	59.3	88.9	
39	67.8	39.5	59.3#	

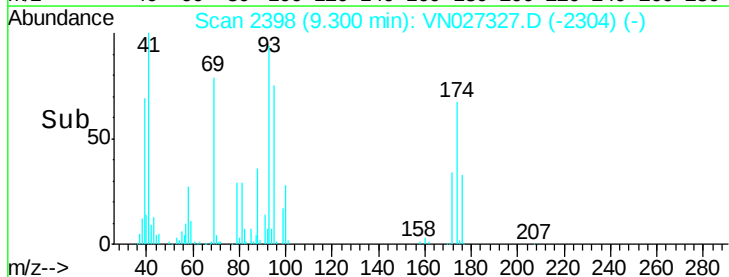
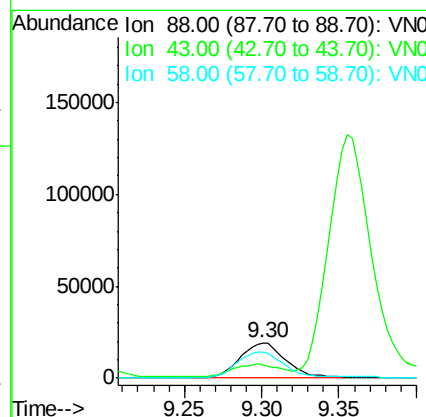
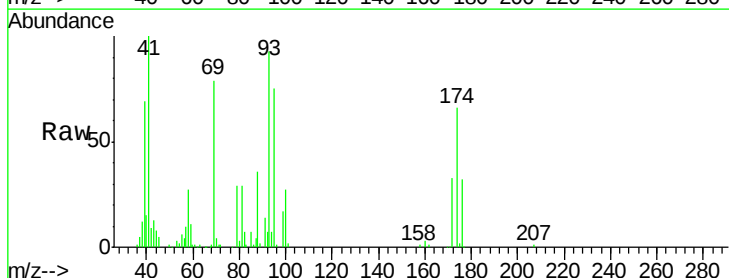
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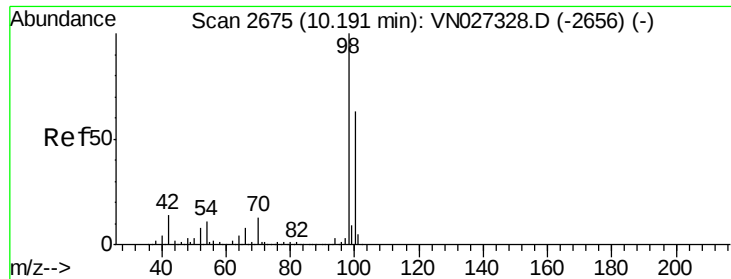
MMDadoda
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#50
1,4-Dioxane
Concen: 339.86 ug/l
RT: 9.30 min Scan# 2398
Delta R.T. 0.00 min
Lab File: VN027327.D
Acq: 21 Sep 2015 11:14

Tgt Ion	Ratio	Resp	Lower	Upper
88	100	39733		
43	35.7	27.6	41.4	
58	77.6	63.1	94.7	





#51

Toluene-d8

Concen: 20.05 ug/l

RT: 10.19 min Scan# 2675

Delta R.T. 0.00 min

Lab File: VN027327.D

Acq: 21 Sep 2015 11:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 98 Resp: 582071

Ion Ratio Lower Upper

98 100

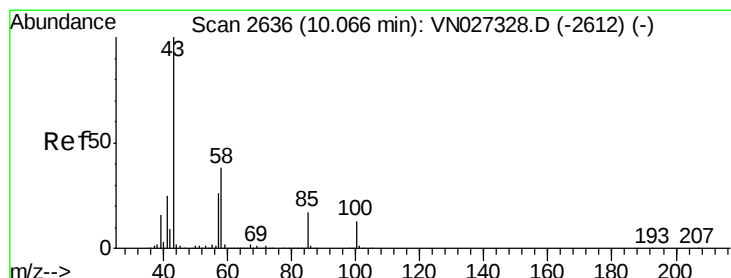
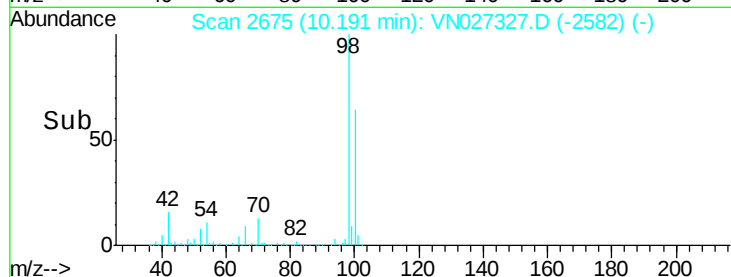
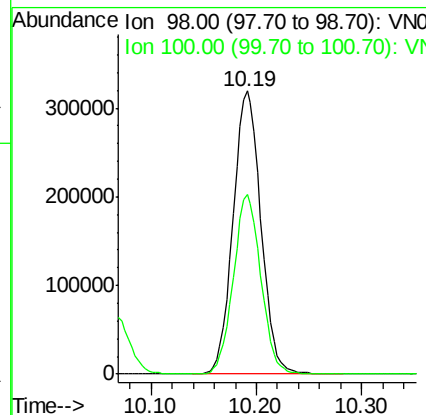
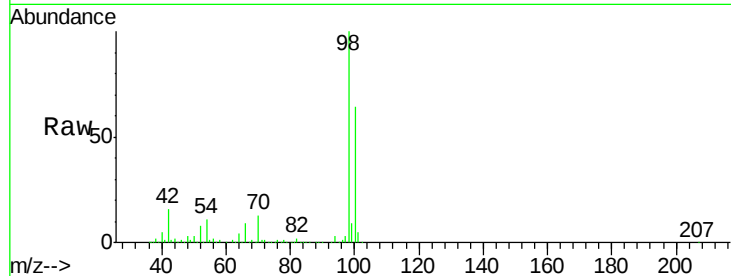
100 62.9 50.5 75.7

Manual Integrations

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9/22/2015 2:27:49 PM



#52

4-Methyl-2-Pentanone

Concen: 86.80 ug/l

RT: 10.07 min Scan# 2636

Delta R.T. 0.00 min

Lab File: VN027327.D

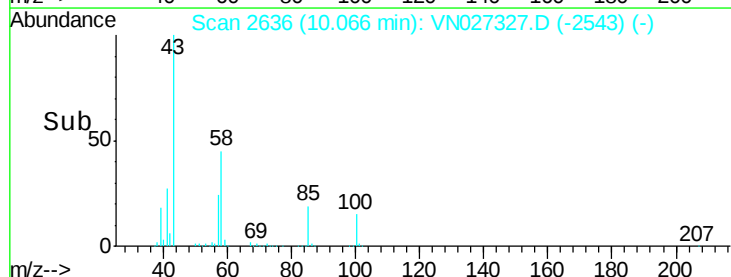
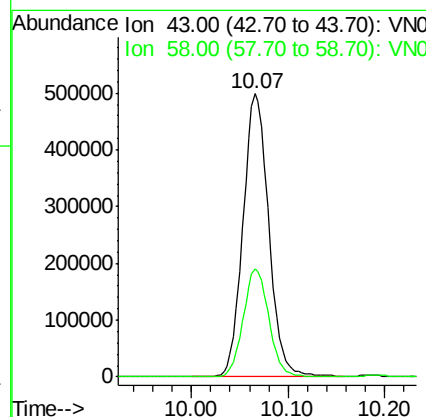
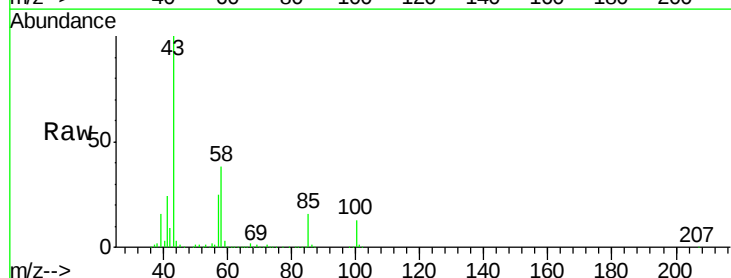
Acq: 21 Sep 2015 11:14

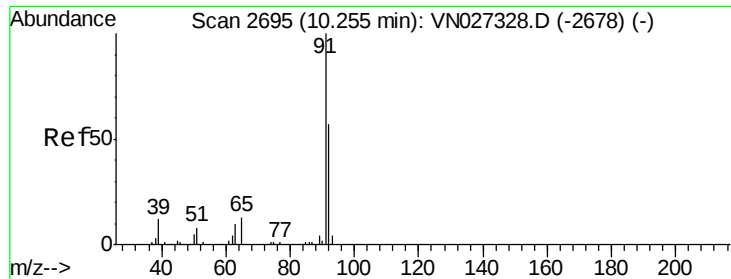
Tgt Ion: 43 Resp: 918211

Ion Ratio Lower Upper

43 100

58 38.3 29.8 44.8





#53

Toluene

Concen: 18.19 ug/l

RT: 10.26 min Scan# 2695

Delta R.T. 0.00 min

Lab File: VN027327.D

Acq: 21 Sep 2015 11:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 92 Resp: 389315

Ion Ratio Lower Upper

92 100

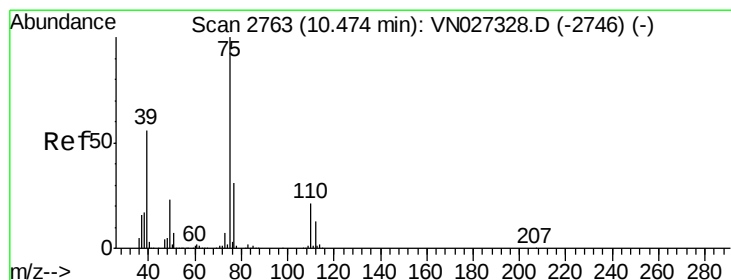
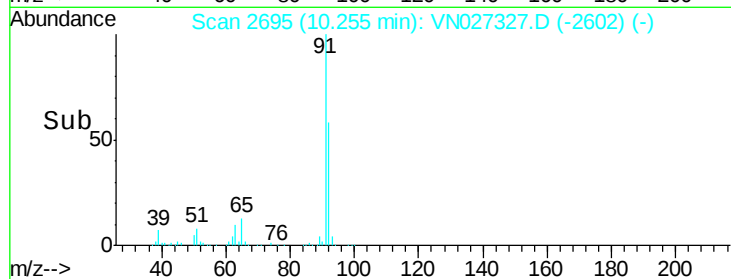
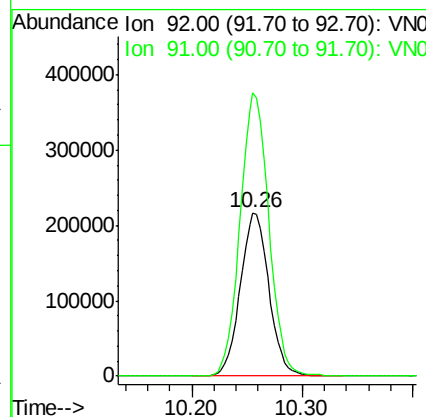
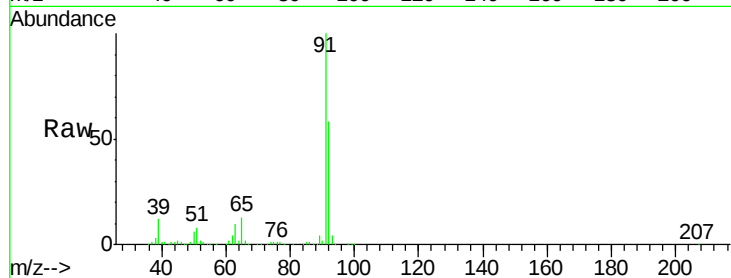
91 174.6 141.4 212.2

Manual Integrations

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#54

t-1,3-Dichloropropene

Concen: 17.29 ug/l

RT: 10.47 min Scan# 2763

Delta R.T. 0.00 min

Lab File: VN027327.D

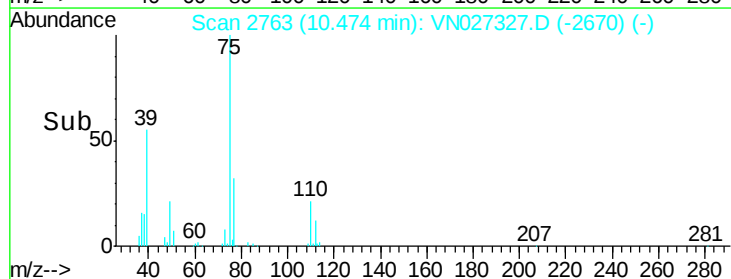
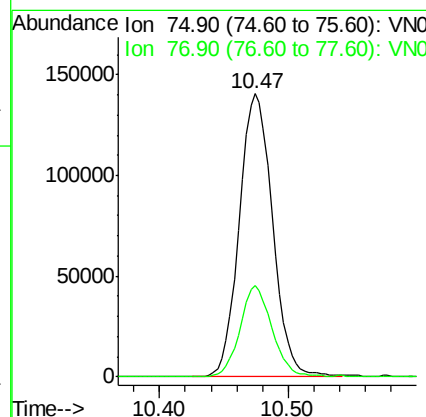
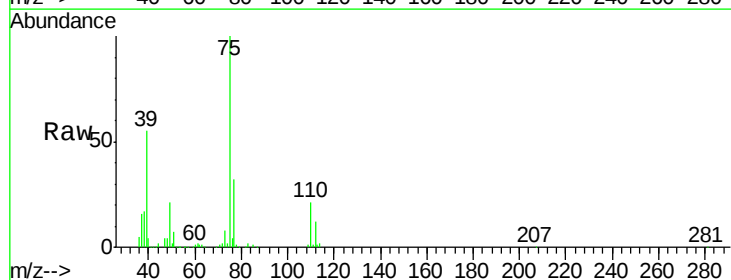
Acq: 21 Sep 2015 11:14

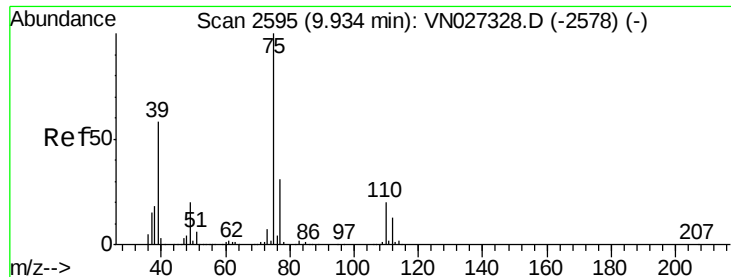
Tgt Ion: 75 Resp: 252527

Ion Ratio Lower Upper

75 100

77 32.3 25.4 38.2





#55

cis-1,3-Dichloropropene

Concen: 17.35 ug/l

RT: 9.93 min Scan# 2595

Delta R.T. 0.00 min

Lab File: VN027327.D

Acq: 21 Sep 2015 11:14

Instrument :

MSVOA_N

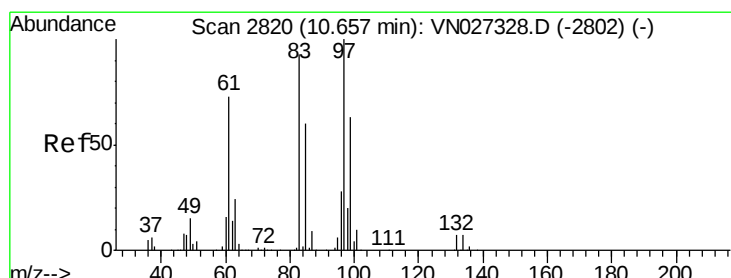
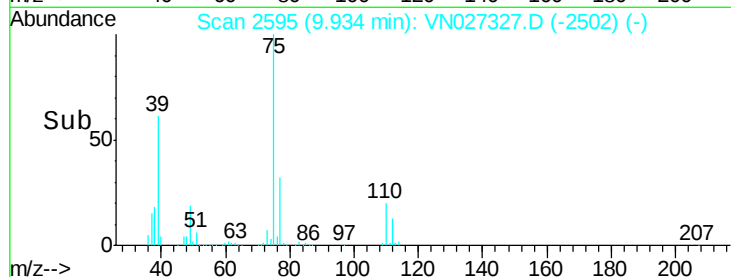
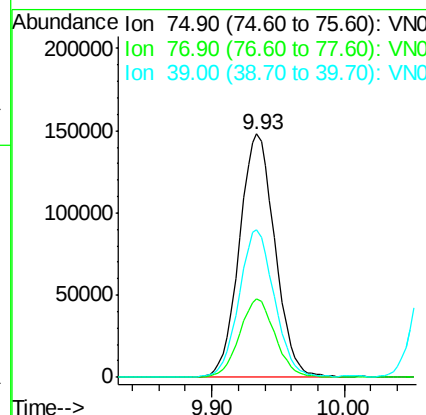
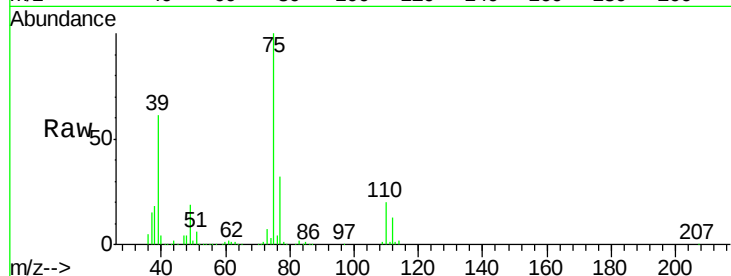
ClientSampleId :

VSTDIC020

Tot Ion:	75	Resp:	275656
Ion	Ratio	Lower	Upper
75	100		
77	32.1	25.6	38.4
39	60.6	41.6	62.4

Manual Integrations
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#56

1,1,2-Trichloroethane

Concen: 18.45 ug/l

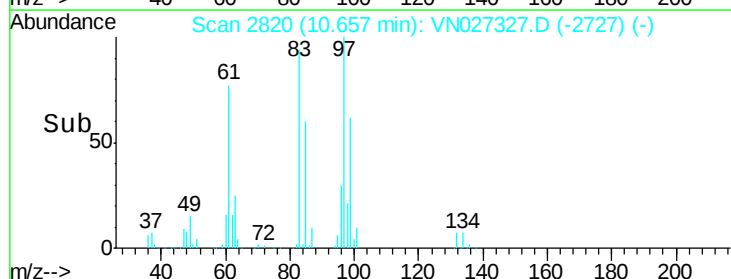
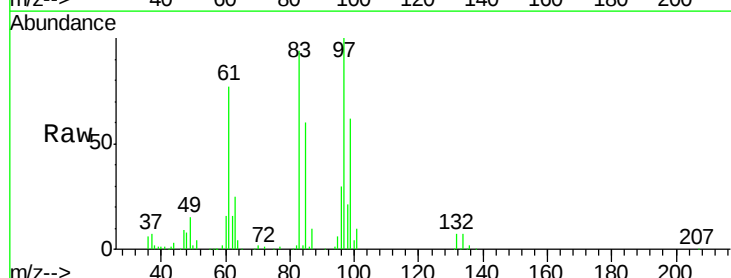
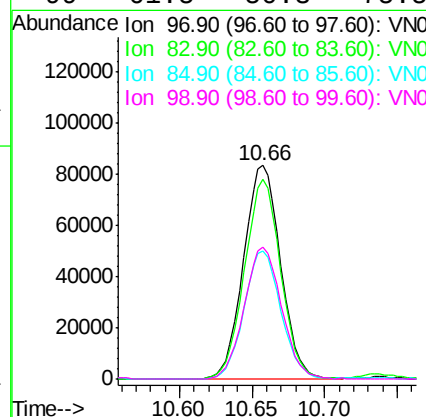
RT: 10.66 min Scan# 2820

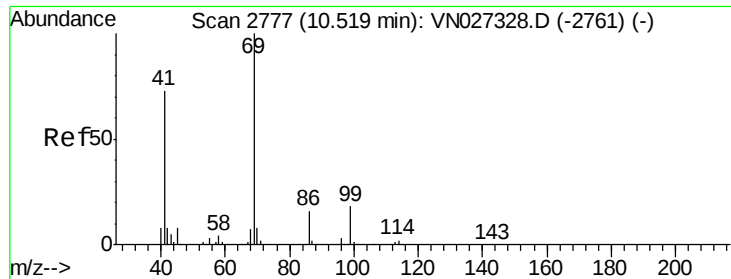
Delta R.T. 0.00 min

Lab File: VN027327.D

Acq: 21 Sep 2015 11:14

Tgt Ion:	97	Resp:	148363
Ion	Ratio	Lower	Upper
97	100		
83	93.7	75.0	112.4
85	59.9	48.0	72.0
99	61.5	50.3	75.5





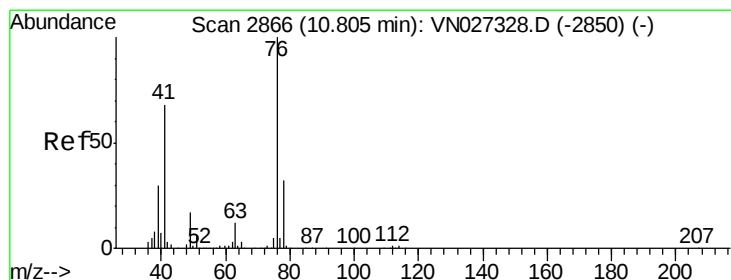
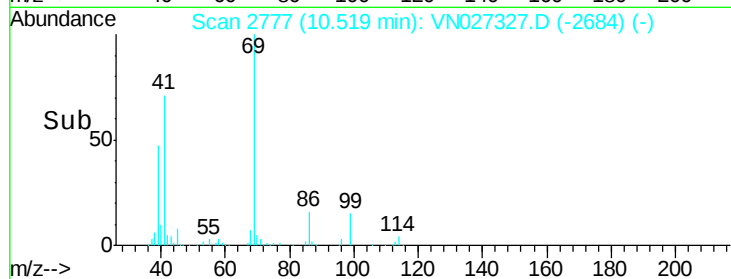
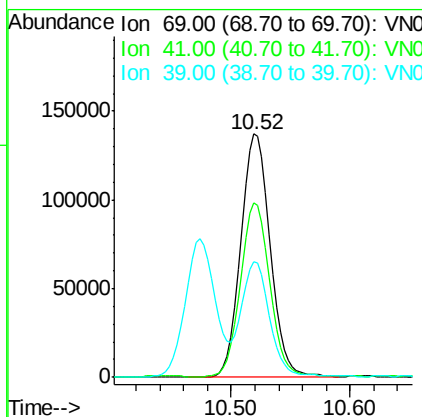
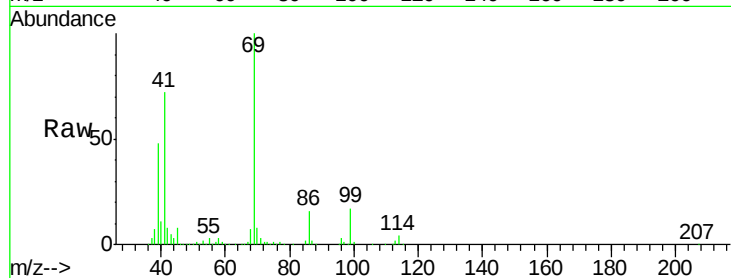
#57
Ethyl methacrylate
Concen: 17.42 ug/l
RT: 10.52 min Scan# 2777
Delta R.T. 0.00 min
Lab File: VN027327.D
Acq: 21 Sep 2015 11:14

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
69	100	236049		
41	70.7	61.3	91.9	
39	44.4	28.4	42.6	

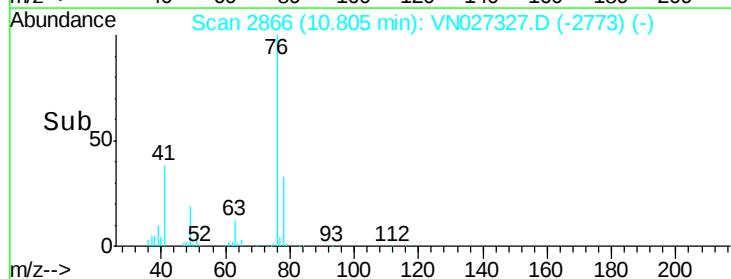
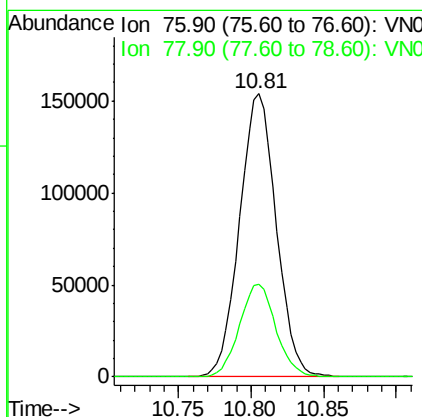
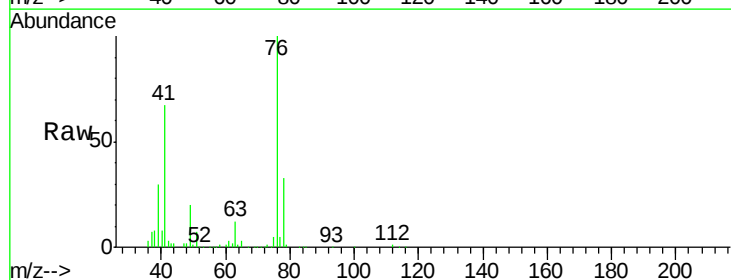
Manual Integrations
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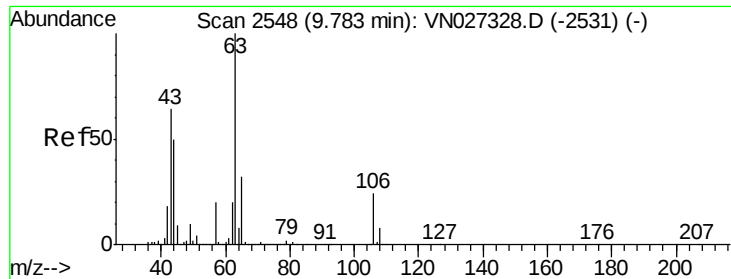
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#58
1,3-Dichloropropane
Concen: 18.14 ug/l
RT: 10.81 min Scan# 2866
Delta R.T. 0.00 min
Lab File: VN027327.D
Acq: 21 Sep 2015 11:14

Tgt Ion	Ratio	Resp	Lower	Upper
76	100	270752		
78	32.7	25.0	37.6	





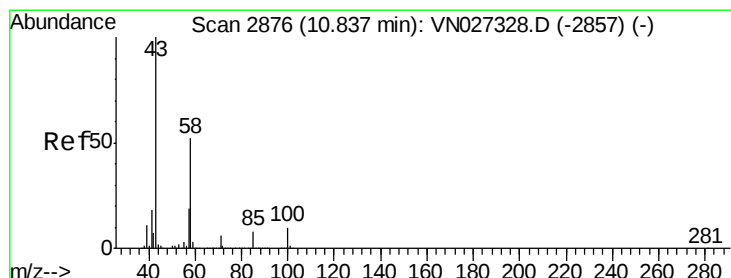
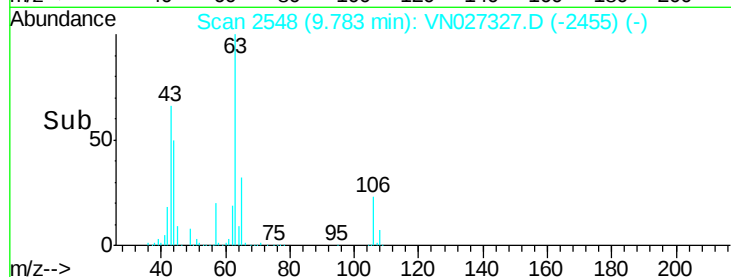
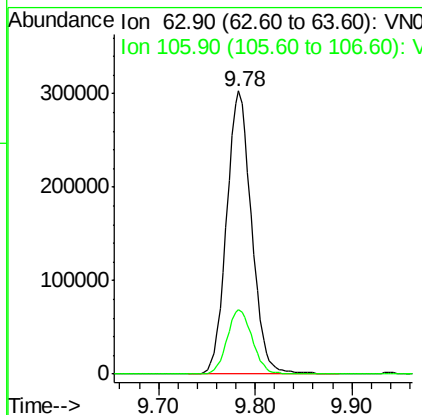
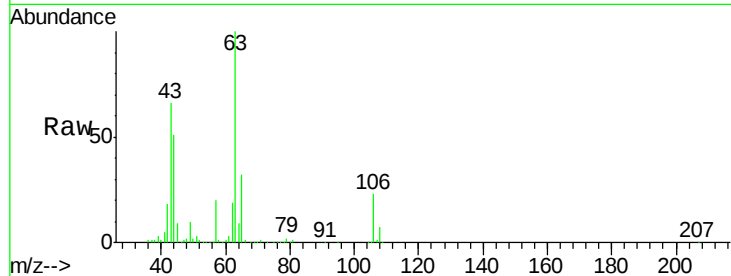
#59
2-Chloroethyl Vinyl ether
Concen: 87.24 ug/l
RT: 9.78 min Scan# 2548
Delta R.T. 0.00 min
Lab File: VN027327.D
Acq: 21 Sep 2015 11:14

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion: 63 Resp: 542865
Ion Ratio Lower Upper
63 100
106 23.0 17.7 26.5

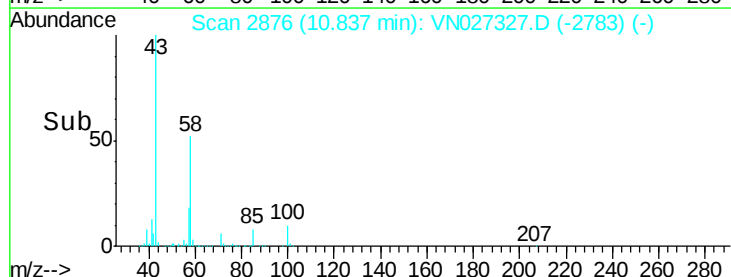
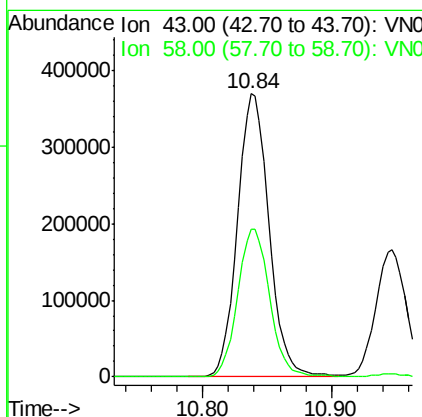
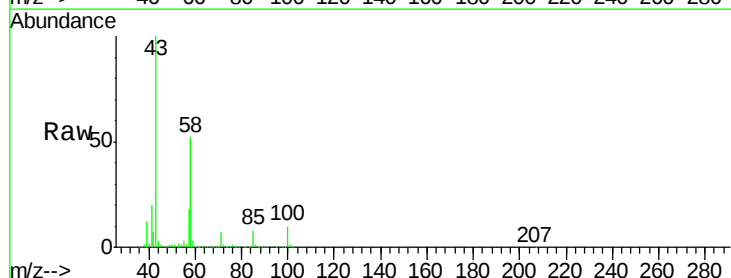
Manual Integrations
APPROVED

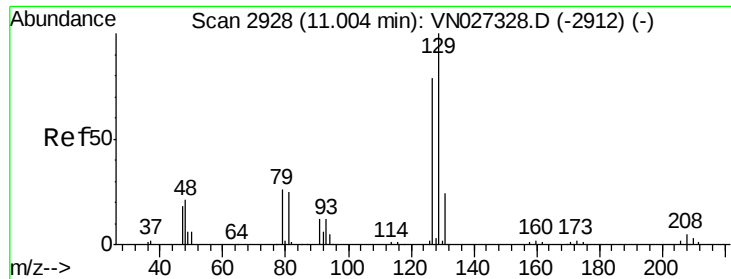
MMDadoda
9/22/2015 2:27:49 PM



#60
2-Hexanone
Concen: 87.26 ug/l
RT: 10.84 min Scan# 2876
Delta R.T. 0.00 min
Lab File: VN027327.D
Acq: 21 Sep 2015 11:14

Tgt Ion: 43 Resp: 628492
Ion Ratio Lower Upper
43 100
58 53.2 26.2 78.5





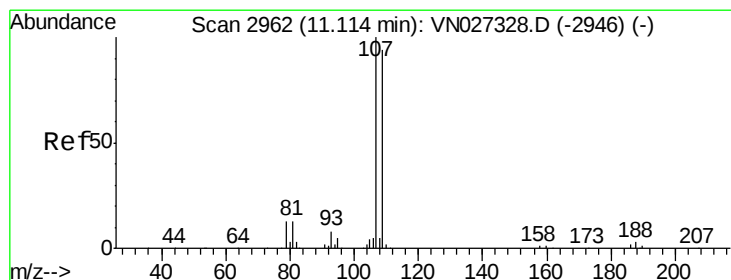
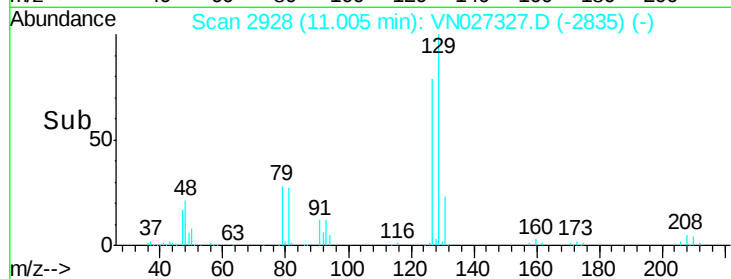
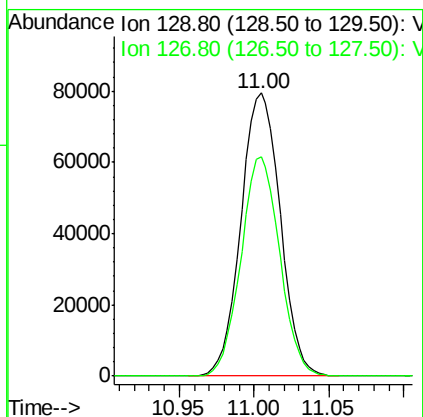
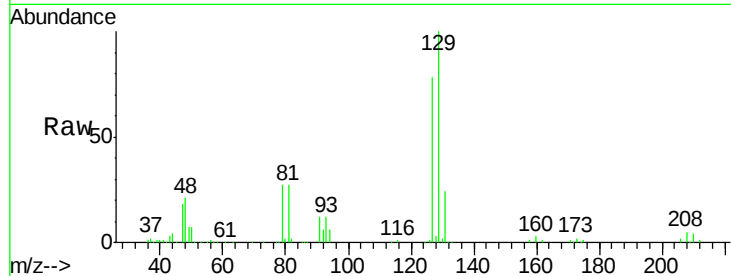
#61
Dibromochloromethane
Concen: 17.69 ug/l
RT: 11.00 min Scan# 2928
Delta R.T. 0.00 min
Lab File: VN027327.D
Acq: 21 Sep 2015 11:14

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ion	Ratio	Resp	Lower	Upper
129	100		145307		
127	76.4	39.1	117.2		

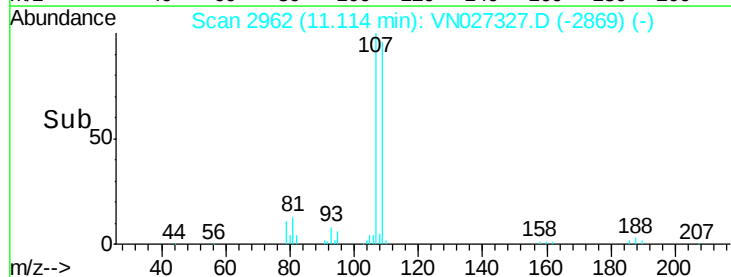
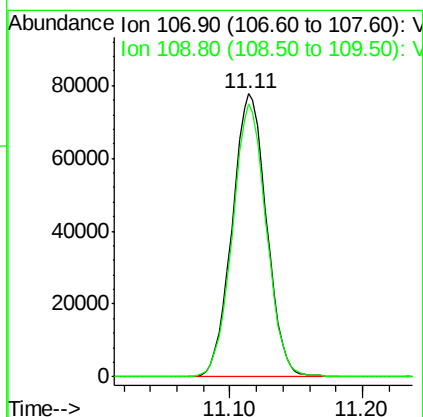
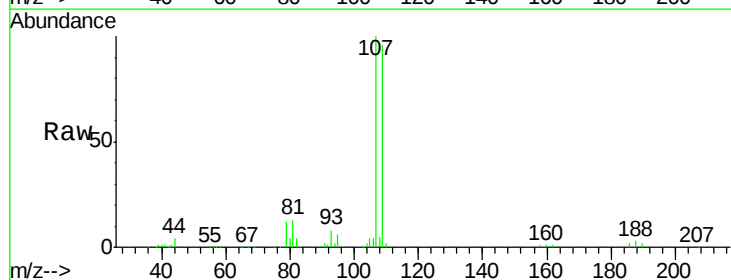
Manual Integrations
APPROVED

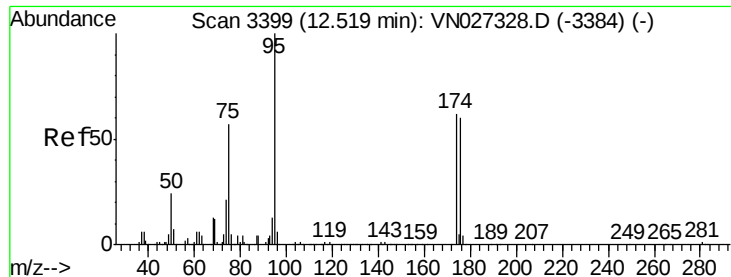
MMDadoda
9/22/2015 2:27:49 PM



#62
1,2-Dibromoethane
Concen: 17.70 ug/l
RT: 11.11 min Scan# 2962
Delta R.T. 0.00 min
Lab File: VN027327.D
Acq: 21 Sep 2015 11:14

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
107	100		139892		
109	95.0	75.6	113.4		





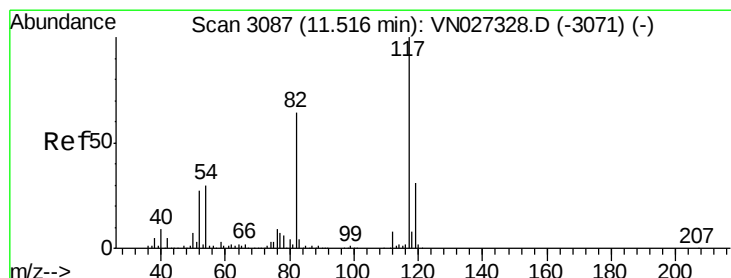
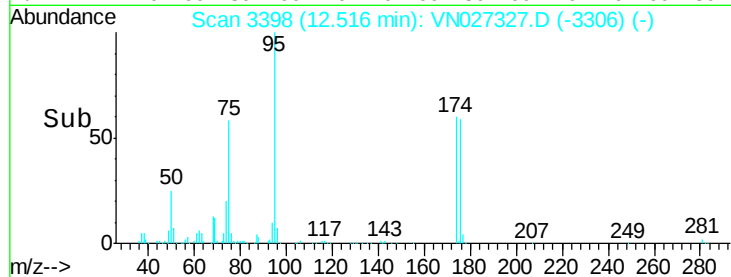
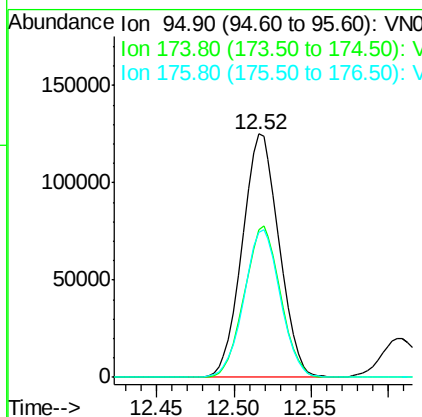
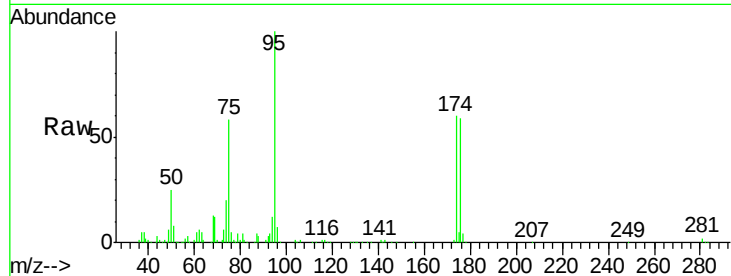
#63
4-Bromofluorobenzene
Concen: 20.14 ug/l
RT: 12.52 min Scan# 3398
Delta R.T. -0.00 min
Lab File: VN027327.D
Acq: 21 Sep 2015 11:14

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
95	100	207480		
174	60.8	0.0	137.0	
176	59.8	0.0	130.8	

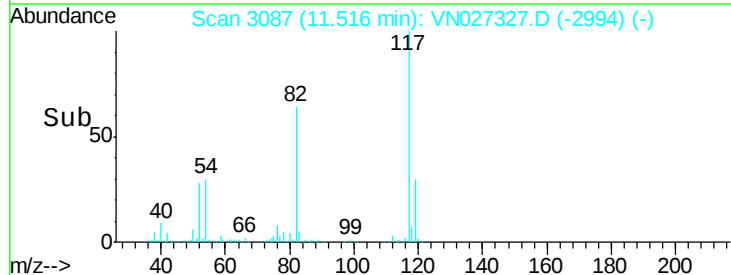
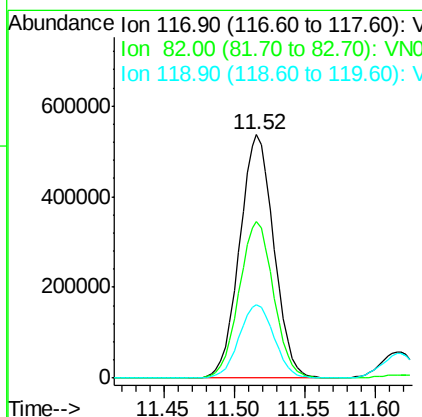
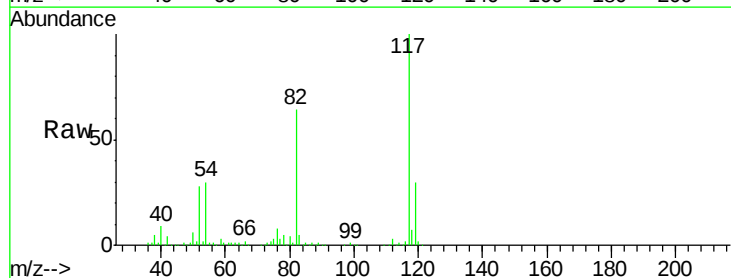
Manual Integrations
APPROVED

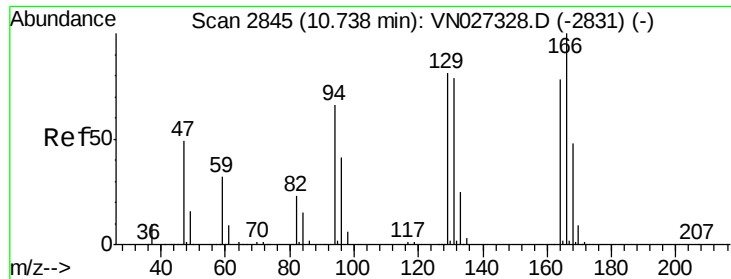
MMDadoda
9/22/2015 2:27:49 PM



#64
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.52 min Scan# 3087
Delta R.T. 0.00 min
Lab File: VN027327.D
Acq: 21 Sep 2015 11:14

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	913490		
82	64.5	49.6	74.4	
119	30.2	24.6	36.8	





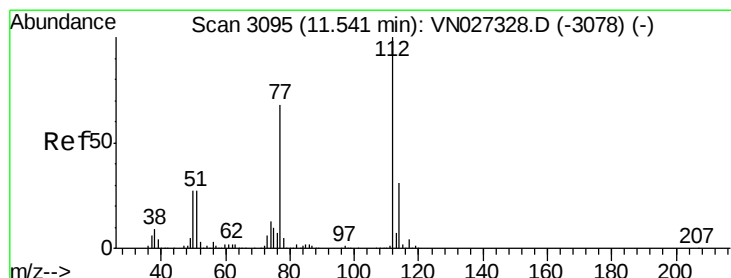
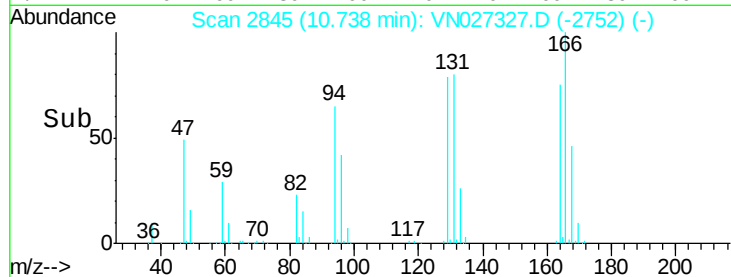
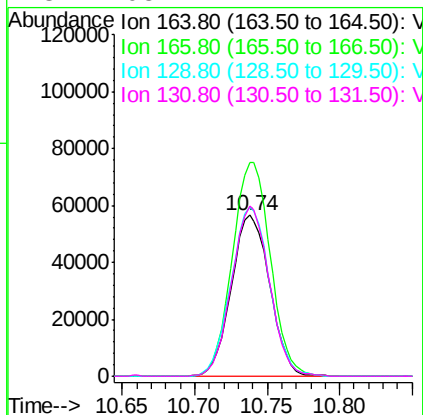
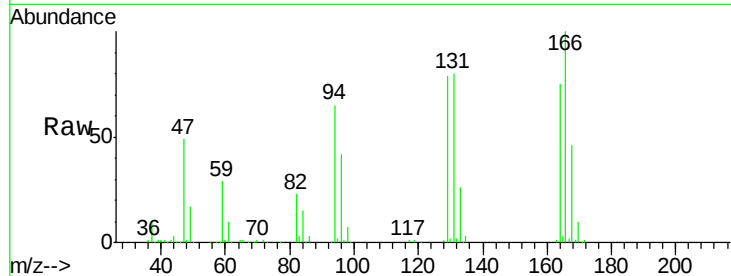
#65
Tetrachloroethene
Concen: 17.84 ug/l
RT: 10.74 min Scan# 2845
Delta R.T. 0.00 min
Lab File: VN027327.D
Acq: 21 Sep 2015 11:14

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
164	100			
166	132.5	103.4	155.0	
129	104.7	77.5	116.3	
131	105.2	74.2	111.4	

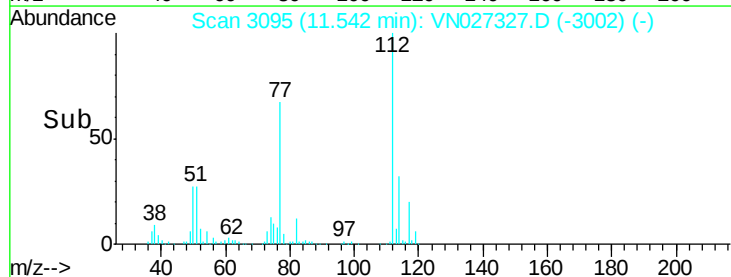
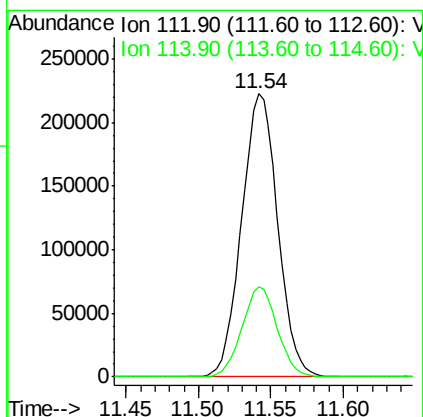
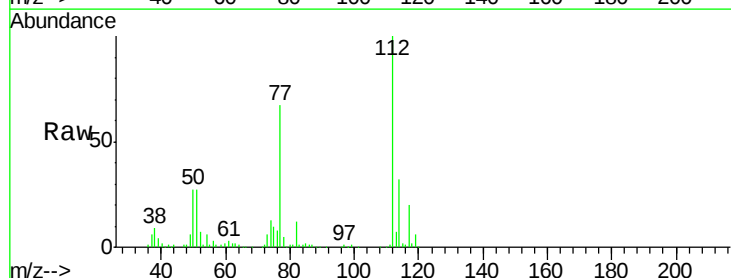
Manual Integrations
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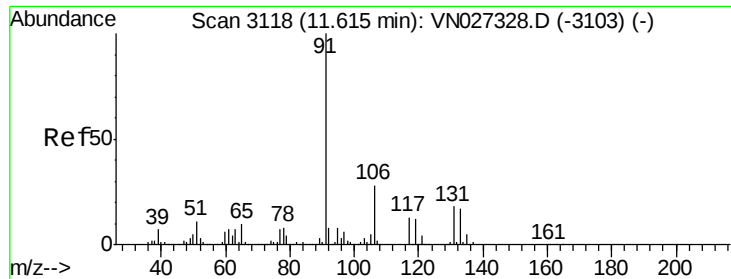
MMDadoda
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#66
Chlorobenzene
Concen: 17.88 ug/l
RT: 11.54 min Scan# 3095
Delta R.T. 0.00 min
Lab File: VN027327.D
Acq: 21 Sep 2015 11:14

Tgt Ion	Ratio	Resp	Lower	Upper
112	100			
114	31.7	24.9	37.3	





#67

1,1,1,2-Tetrachloroethane

Concen: 17.75 ug/l

RT: 11.62 min Scan# 3118

Delta R.T. 0.00 min

Lab File: VN027327.D

Acq: 21 Sep 2015 11:14

Instrument :

MSVOA_N

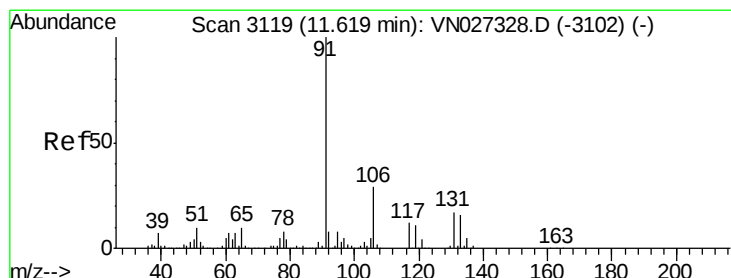
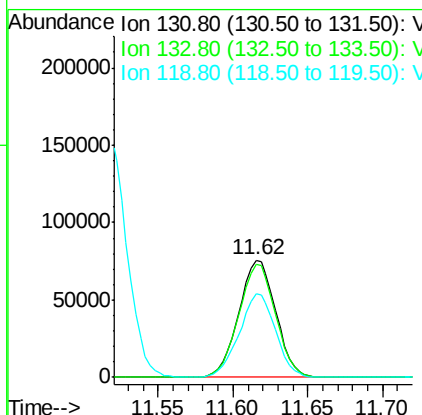
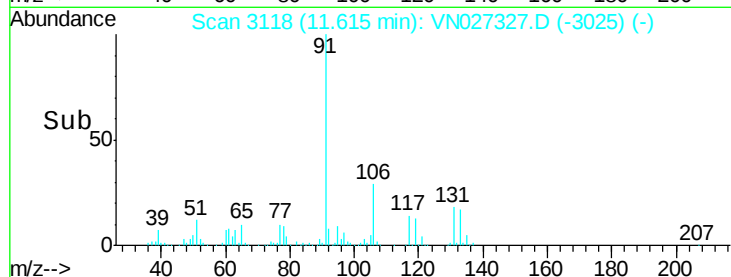
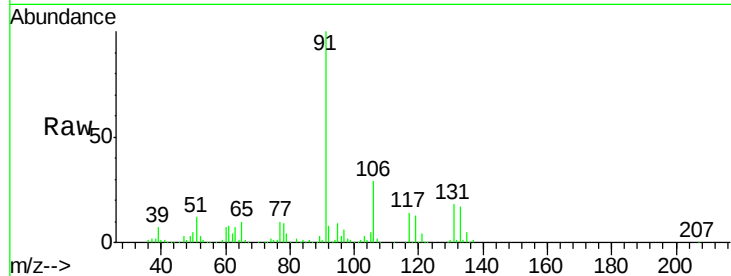
ClientSampled :

VSTDIC020

Tot Ion:	131	Resp:	130558
Ion Ratio	Lower	Upper	
131	100		
133	95.8	47.0	141.2
119	69.3	35.1	105.5

Manual Integrations
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#68

Ethyl Benzene

Concen: 17.67 ug/l

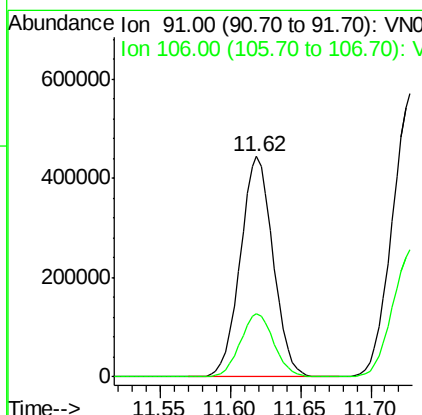
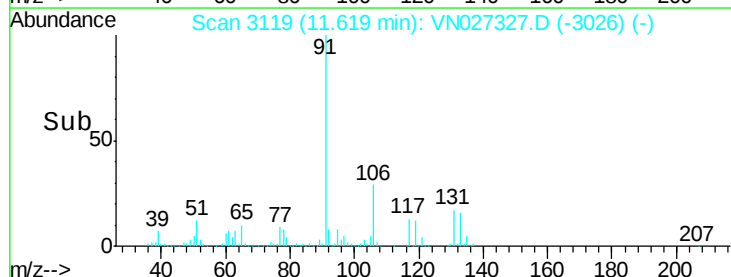
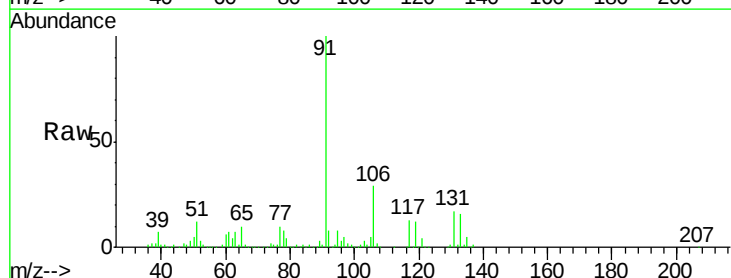
RT: 11.62 min Scan# 3119

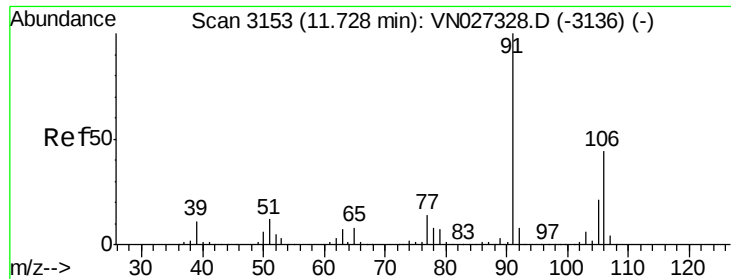
Delta R.T. 0.00 min

Lab File: VN027327.D

Acq: 21 Sep 2015 11:14

Tgt Ion:	91	Resp:	722769
Ion Ratio	Lower	Upper	
91	100		
106	28.7	23.1	34.7





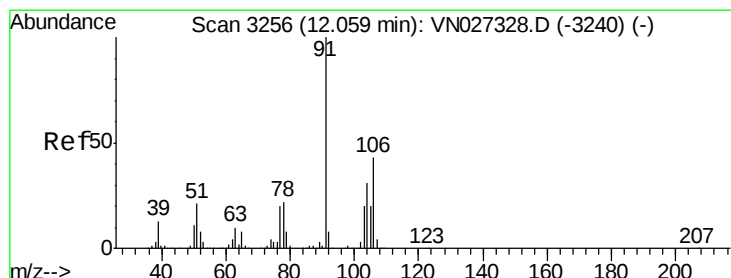
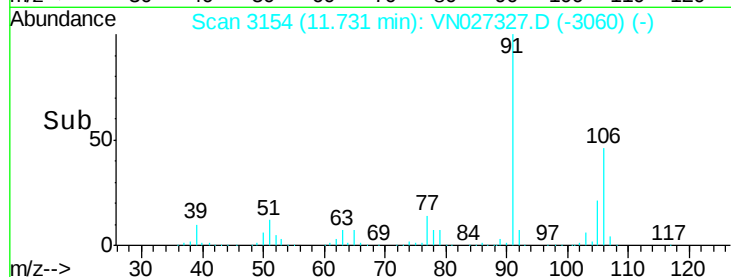
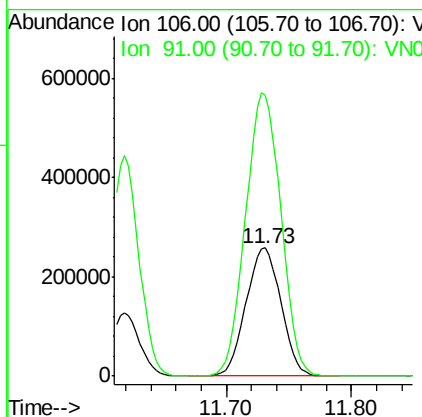
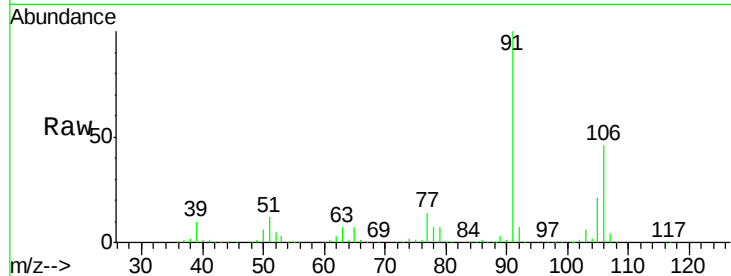
#69
m/p-Xylenes
Concen: 35.67 ug/l
RT: 11.73 min Scan# 3154
Delta R.T. 0.00 min
Lab File: VN027327.D
Acq: 21 Sep 2015 11:14

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion:106 Resp: 503282
Ion Ratio Lower Upper
106 100
91 223.2 167.1 250.7

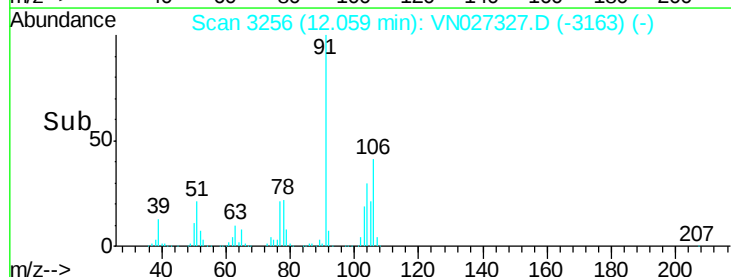
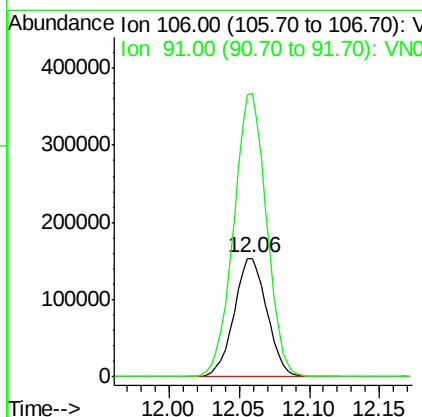
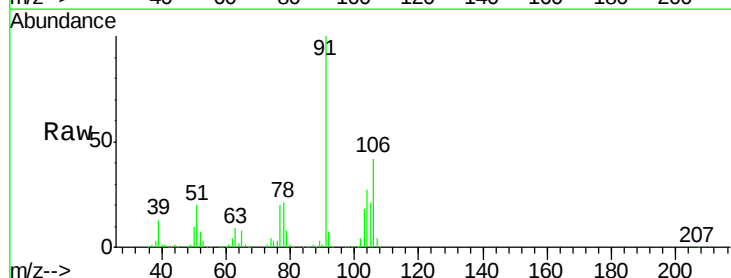
Manual Integrations
APPROVED

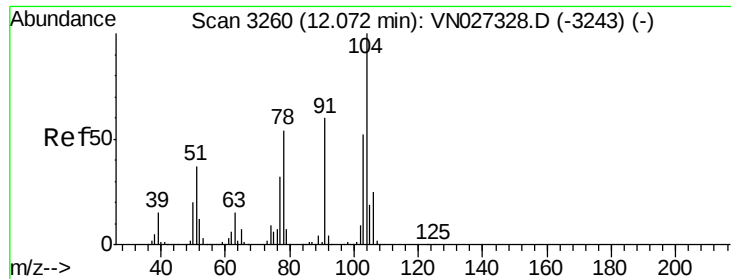
MMDadoda
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#70
o-Xylene
Concen: 17.78 ug/l
RT: 12.06 min Scan# 3256
Delta R.T. 0.00 min
Lab File: VN027327.D
Acq: 21 Sep 2015 11:14

Tgt Ion:106 Resp: 251472
Ion Ratio Lower Upper
106 100
91 238.3 110.7 331.9





#71

Stvrene

Concen: 17.85 ug/l

RT: 12.08 min Scan# 3261

Delta R.T. 0.00 min

Lab File: VN027327.D

Acq: 21 Sep 2015 11:14

Instrument :

MSVOA_N

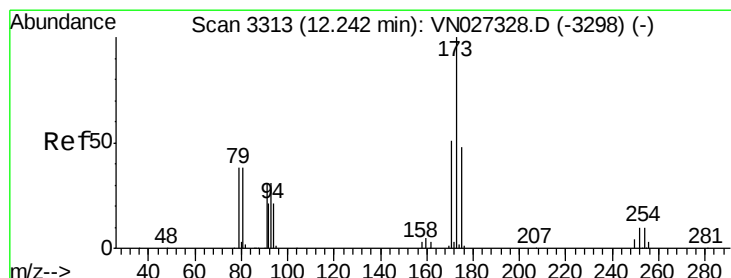
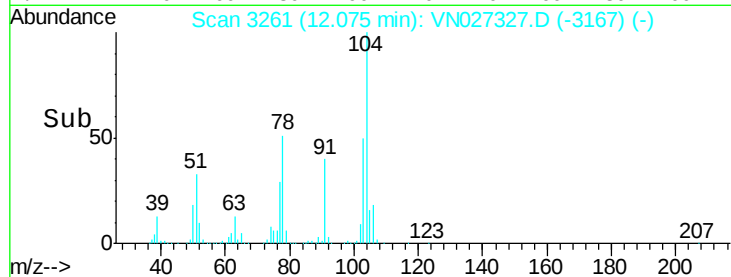
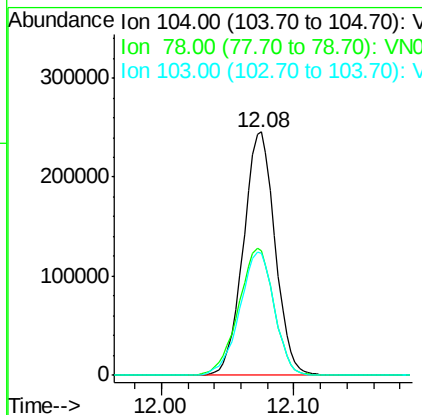
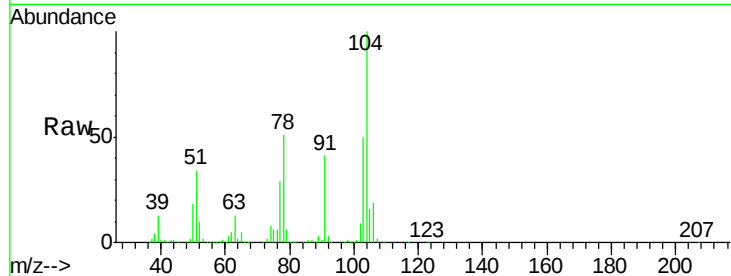
ClientSampleId :

VSTDIC020

Tot Ion:	104	Resp:	407502
Ion Ratio	Lower	Upper	
104	100		
78	58.5	41.6	62.4
103	55.3	44.2	66.2

Manual Integrations
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#72

Bromoform

Concen: 17.29 ug/l

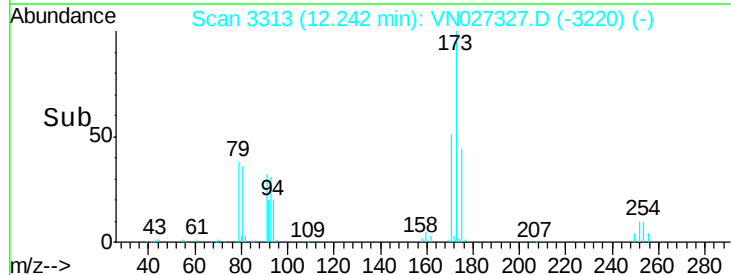
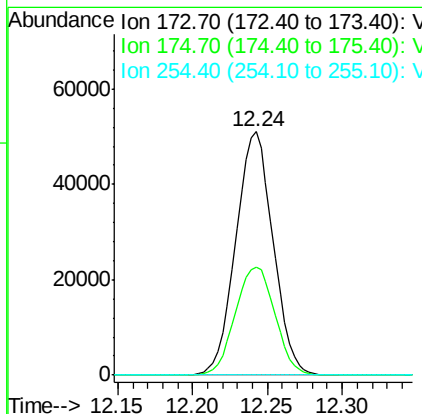
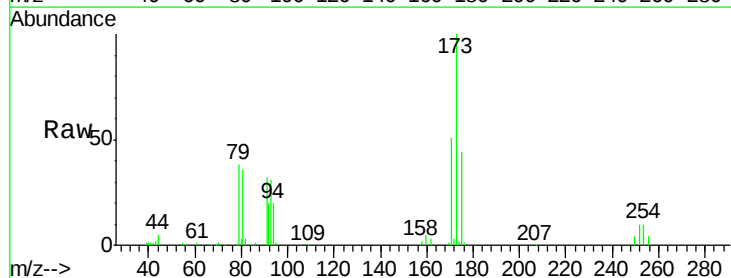
RT: 12.24 min Scan# 3313

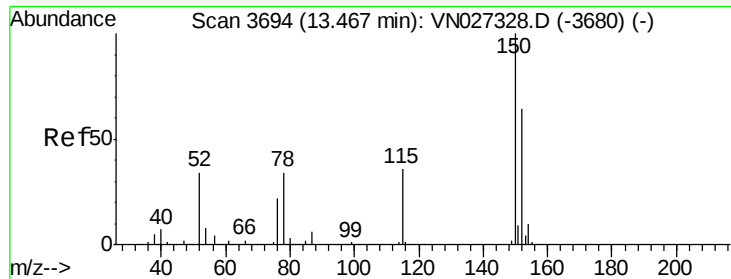
Delta R.T. 0.00 min

Lab File: VN027327.D

Acq: 21 Sep 2015 11:14

Tgt Ion:	173	Resp:	88476
Ion Ratio	Lower	Upper	
173	100		
175	47.3	24.4	73.4
254	0.1	0.1	0.1#





#73

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.47 min Scan# 3694

Delta R.T. 0.00 min

Lab File: VN027327.D

Acq: 21 Sep 2015 11:14

Instrument :

MSVOA_N

ClientSampled :

VSTDIC020

Tot Ion:152 Resp: 338402

Ion Ratio Lower Upper

152 100

115 68.6 30.8 92.3

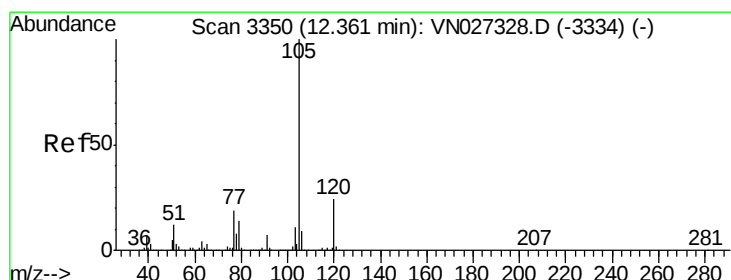
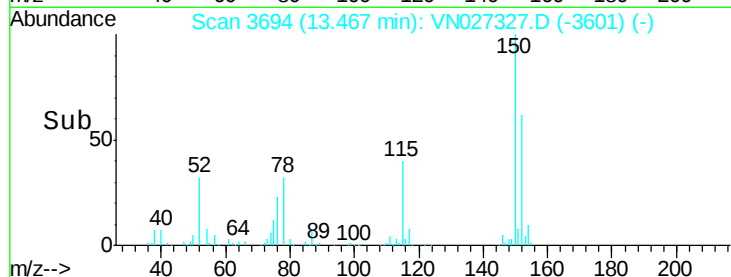
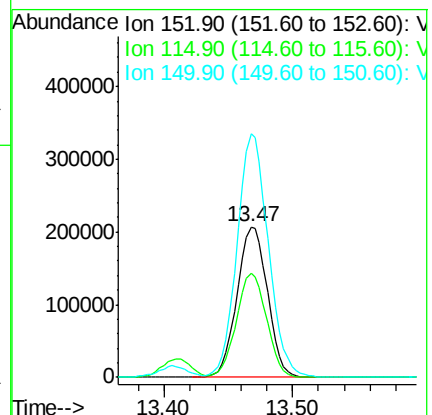
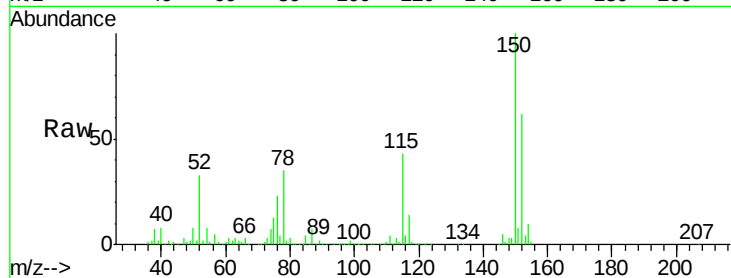
150 165.9 0.0 345.0

Manual Integrations

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#74

Isopropylbenzene

Concen: 18.22 ug/l

RT: 12.36 min Scan# 3350

Delta R.T. 0.00 min

Lab File: VN027327.D

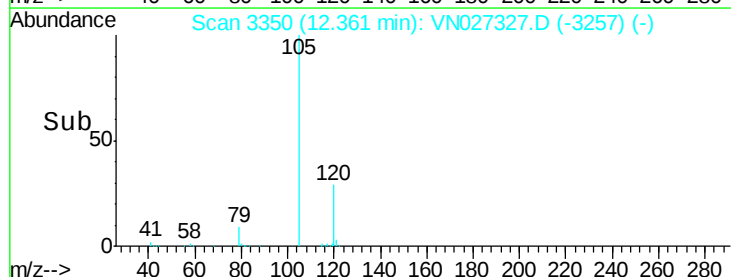
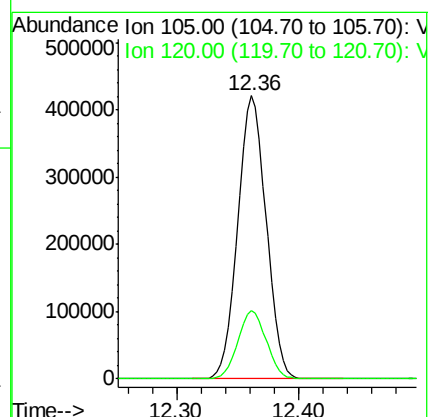
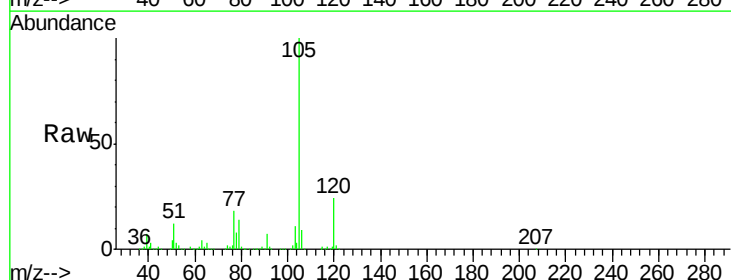
Acq: 21 Sep 2015 11:14

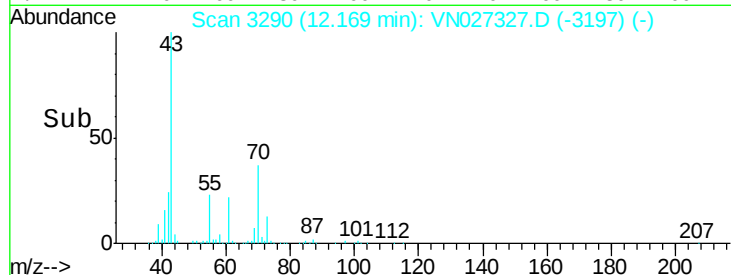
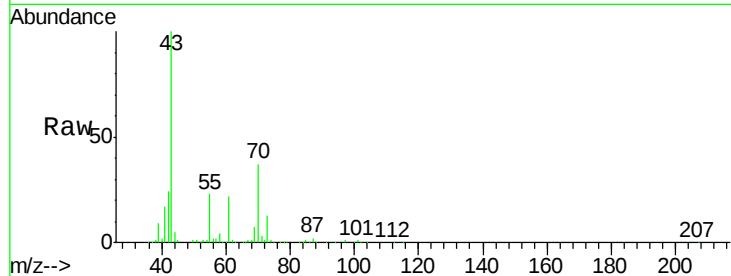
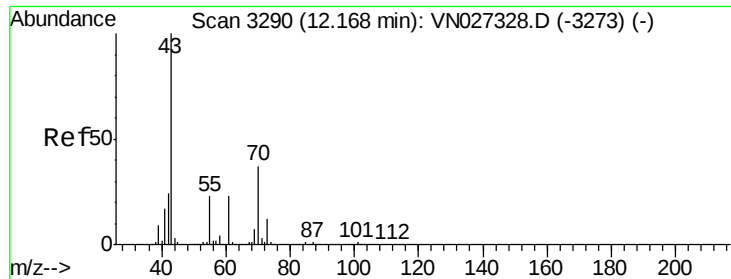
Tgt Ion:105 Resp: 679591

Ion Ratio Lower Upper

105 100

120 24.1 12.4 37.2





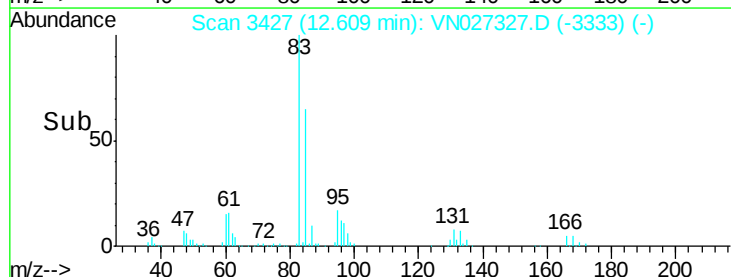
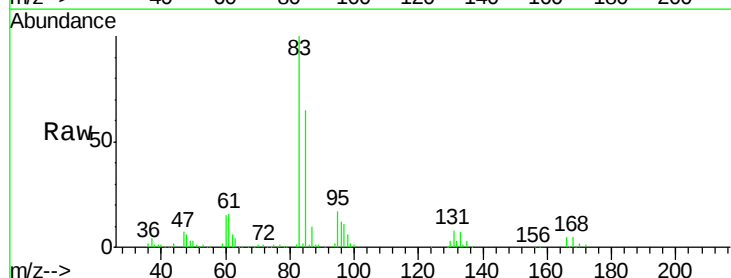
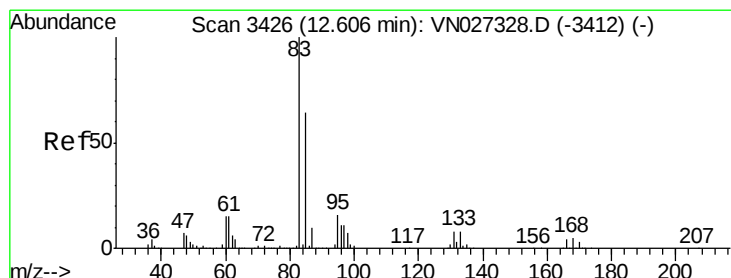
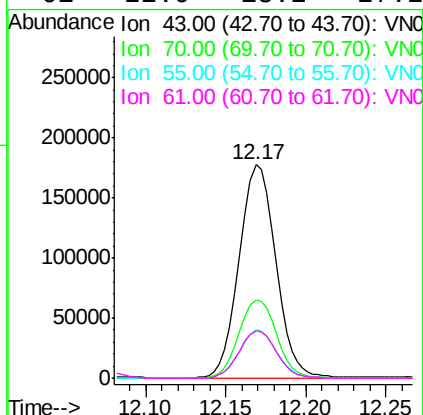
#75
N-amvl acetate
Concen: 16.66 ug/l
RT: 12.17 min Scan# 3290
Delta R.T. 0.00 min
Lab File: VN027327.D
Acq: 21 Sep 2015 11:14

Tot Ion	43	Resp	277235
Ion Ratio	Lower	Upper	
43	100		
70	37.9	29.8	44.8
55	22.6	19.4	29.0
61	22.9	18.2	27.2

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

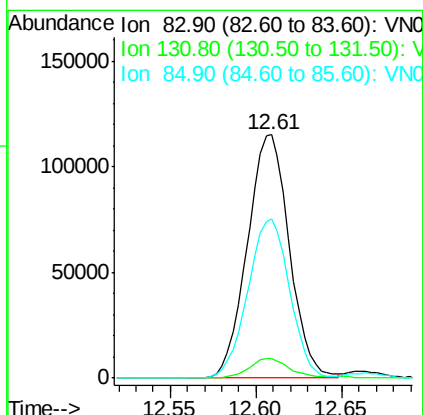
Manual Integrations
APPROVED

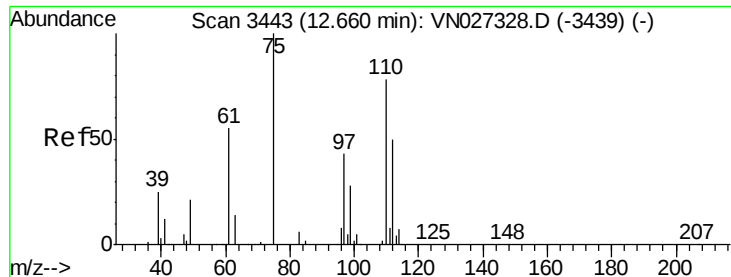
MMDadoda
9/22/2015 2:27:49 PM



#76
1,1,2,2-Tetrachloroethane
Concen: 17.58 ug/l
RT: 12.61 min Scan# 3427
Delta R.T. 0.00 min
Lab File: VN027327.D
Acq: 21 Sep 2015 11:14

Tgt Ion	83	Resp	194700
Ion Ratio	Lower	Upper	
83	100		
131	7.8	4.1	12.3
85	65.1	31.9	95.7





#77

1,2,3-Trichloropropane

Concen: 18.28 ug/l m

RT: 12.66 min Scan# 3443

Delta R.T. 0.00 min

Lab File: VN027327.D

Acq: 21 Sep 2015 11:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 75 Resp: 186913

Ion Ratio Lower Upper

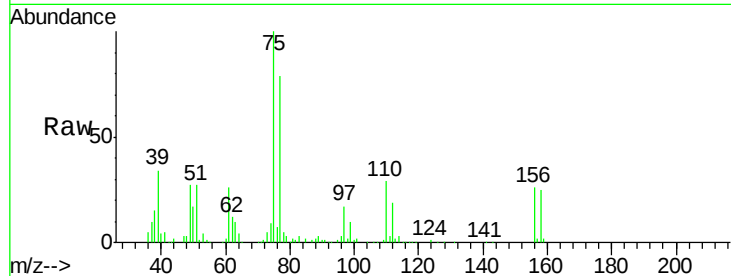
75 100

77 192.8 103.1 309.3

Manual Integrations
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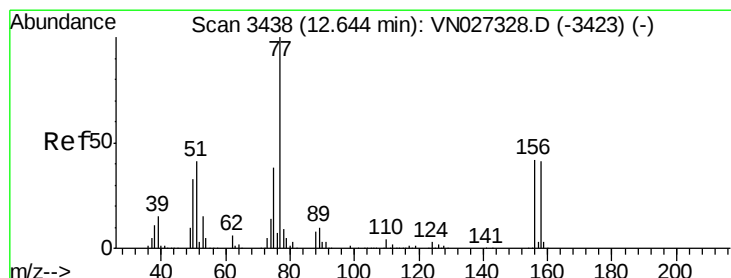
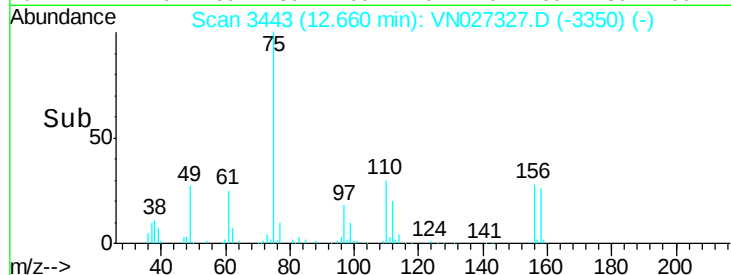
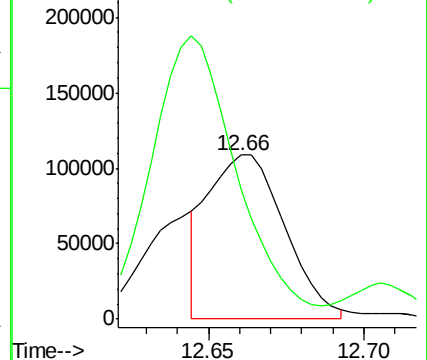
MMDadoda

9/22/2015 2:27:49 PM



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#78

Bromobenzene

Concen: 18.01 ug/l

RT: 12.64 min Scan# 3438

Delta R.T. 0.00 min

Lab File: VN027327.D

Acq: 21 Sep 2015 11:14

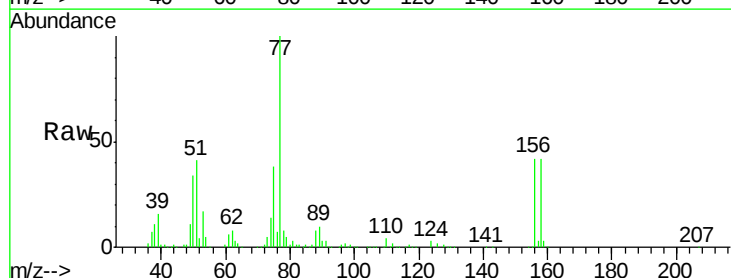
Tgt Ion: 156 Resp: 131728

Ion Ratio Lower Upper

156 100

77 273.5 127.3 381.9

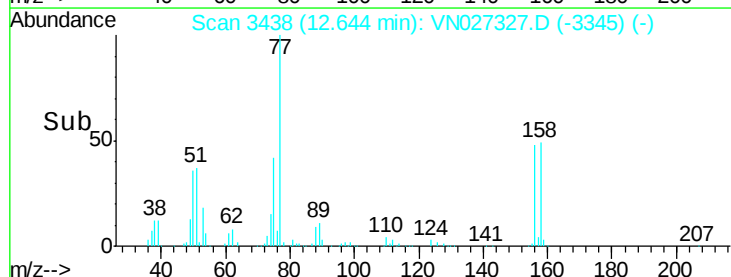
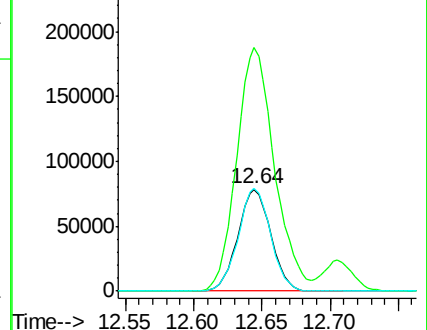
158 98.5 48.0 144.2

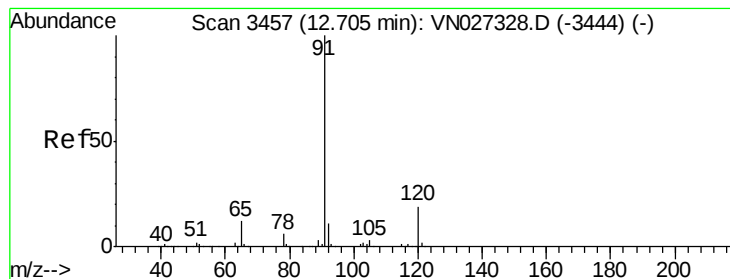


Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V





#79

n-propylbenzene

Concen: 18.29 ug/l

RT: 12.71 min Scan# 3457

Delta R.T. 0.00 min

Lab File: VN027327.D

Acq: 21 Sep 2015 11:14

Instrument :

MSVOA_N

ClientSampled :

VSTDIC020

Tot Ion: 91 Resp: 802559

Ion Ratio Lower Upper

91 100

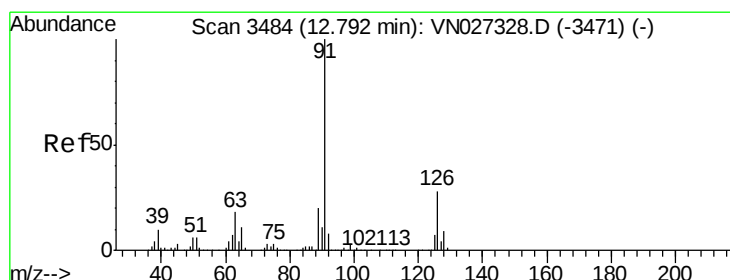
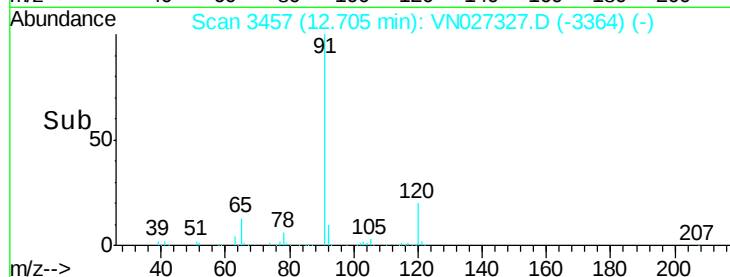
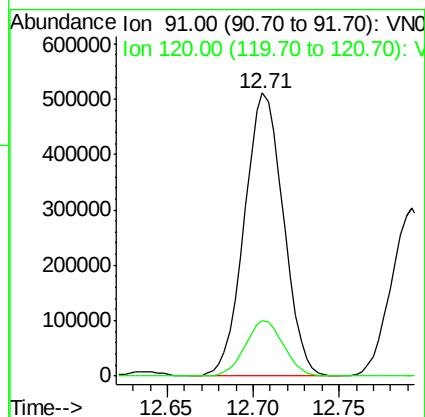
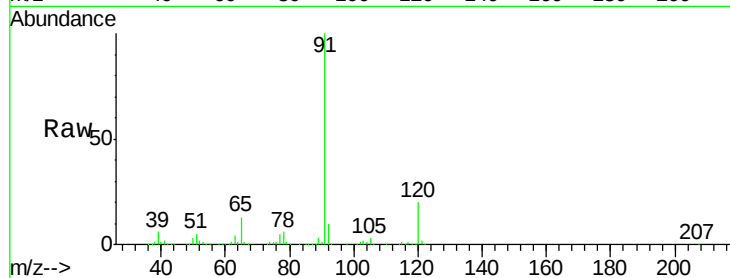
120 19.5 10.3 30.8

Manual Integrations

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#80

2-Chlorotoluene

Concen: 18.71 ug/l

RT: 12.79 min Scan# 3484

Delta R.T. 0.00 min

Lab File: VN027327.D

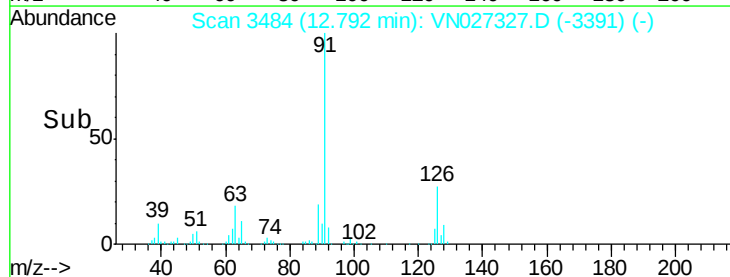
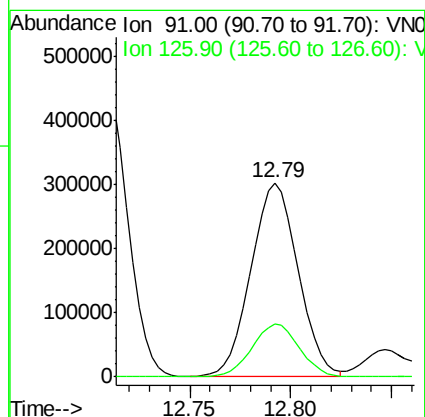
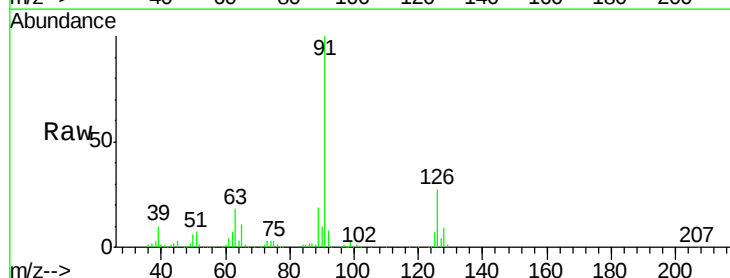
Acq: 21 Sep 2015 11:14

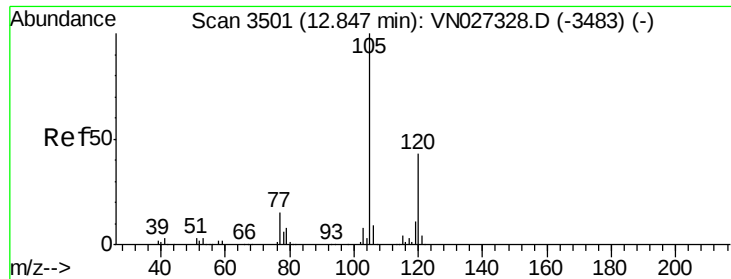
Tgt Ion: 91 Resp: 492872

Ion Ratio Lower Upper

91 100

126 27.5 15.2 45.5





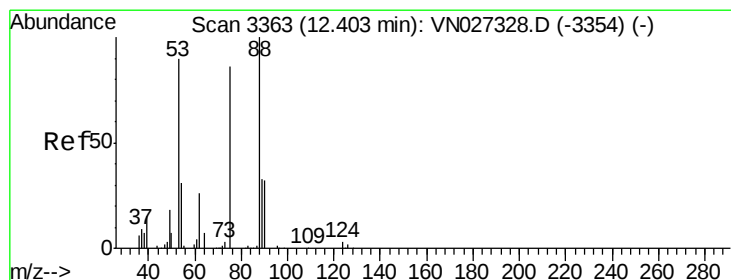
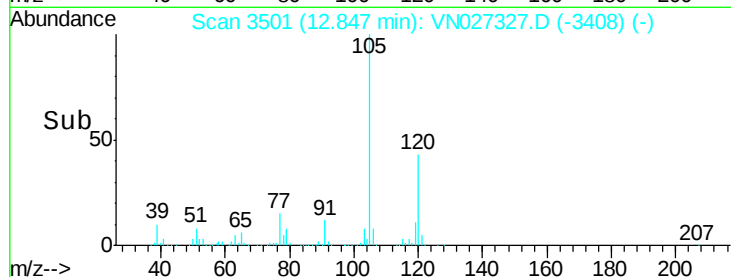
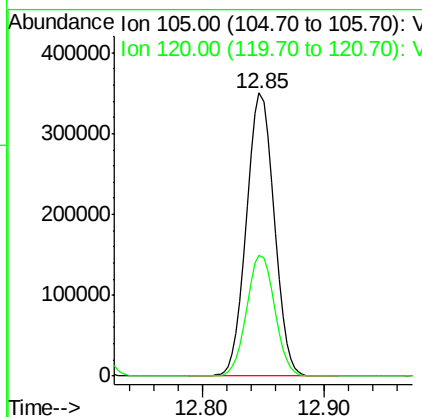
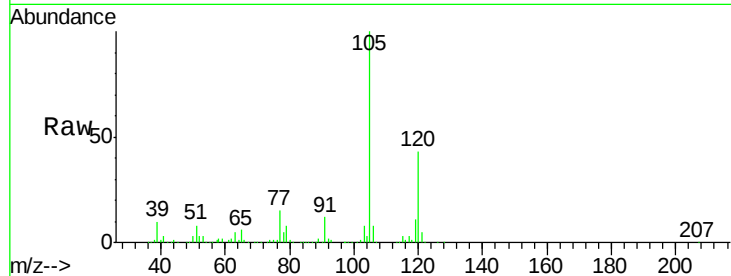
#81
 1,3,5-Trimethylbenzene
 Concen: 18.23 ug/l
 RT: 12.85 min Scan# 3501
 Delta R.T. 0.00 min
 Lab File: VN027327.D
 Acq: 21 Sep 2015 11:14

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC020

Tot Ion:105 Resp: 546232
 Ion Ratio Lower Upper
 105 100
 120 43.0 23.4 70.0

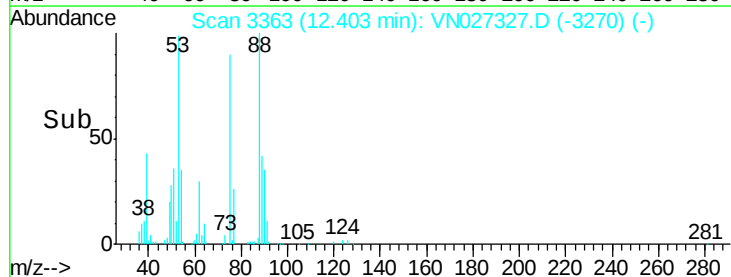
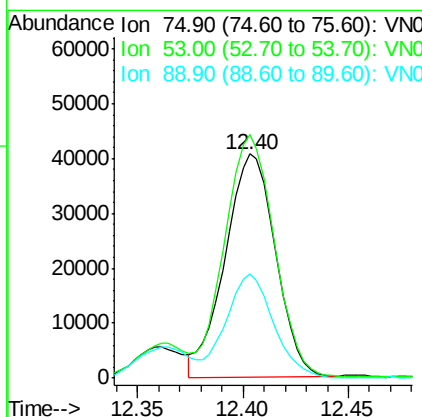
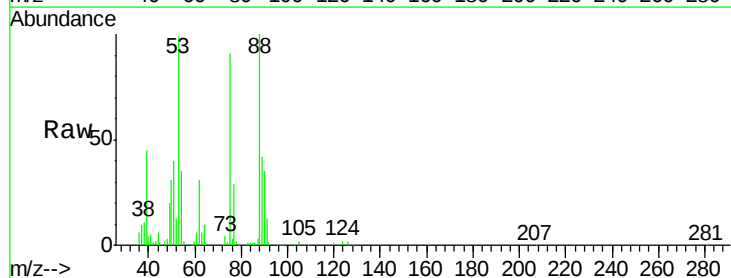
Manual Integrations
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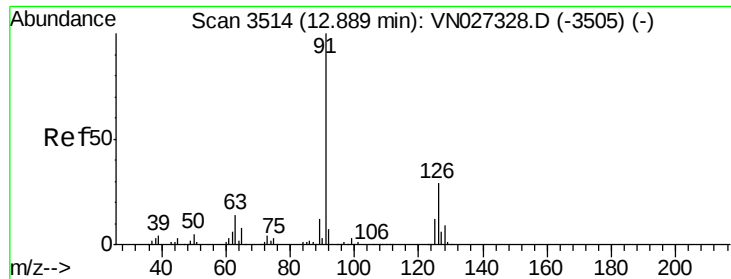
MMDadoda
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#82
 trans-1,4-Dichloro-2-butene
 Concen: 16.14 ug/l
 RT: 12.40 min Scan# 3363
 Delta R.T. 0.00 min
 Lab File: VN027327.D
 Acq: 21 Sep 2015 11:14

Tgt Ion: 75 Resp: 67211
 Ion Ratio Lower Upper
 75 100
 53 109.0 92.9 139.3
 89 44.7 34.2 51.4





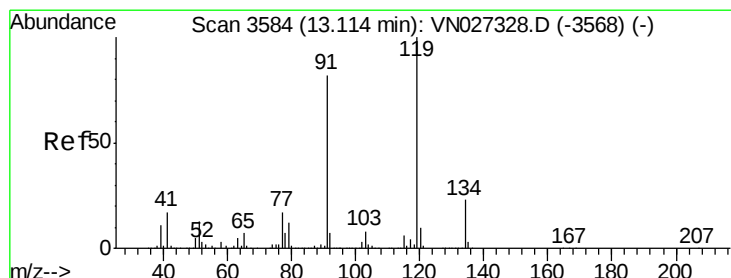
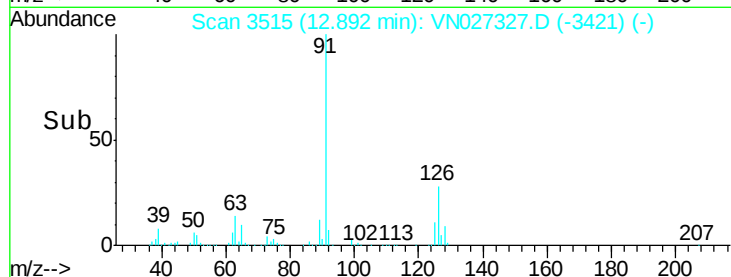
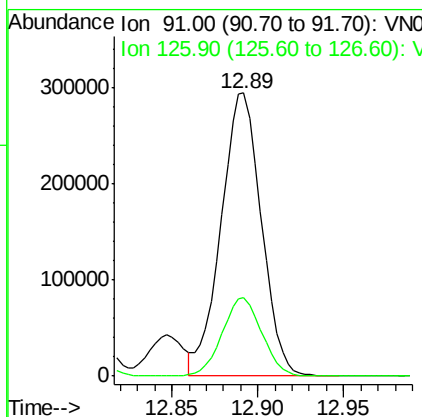
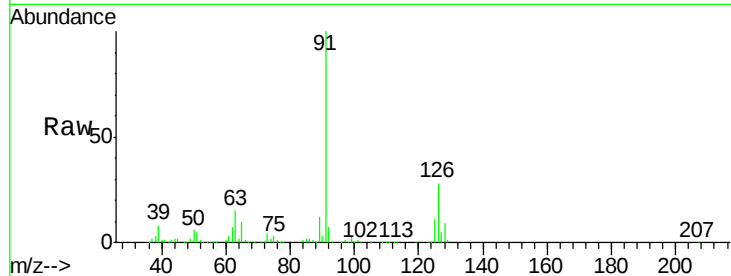
#83
4-Chlorotoluene
Concen: 18.52 ug/l
RT: 12.89 min Scan# 3515
Delta R.T. 0.00 min
Lab File: VN027327.D
Acq: 21 Sep 2015 11:14

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion: 91 Resp: 479341
Ion Ratio Lower Upper
91 100
126 27.4 14.9 44.5

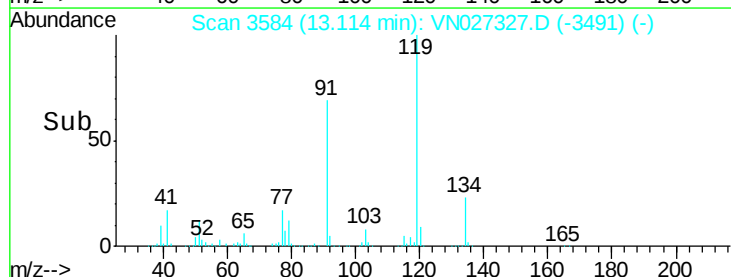
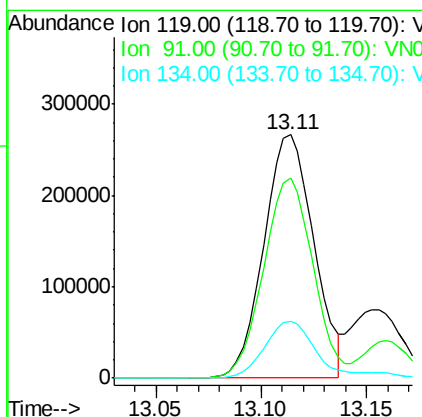
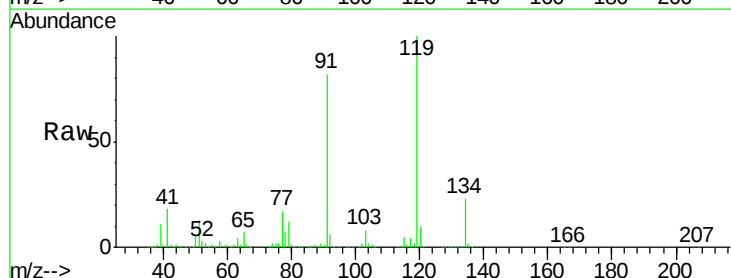
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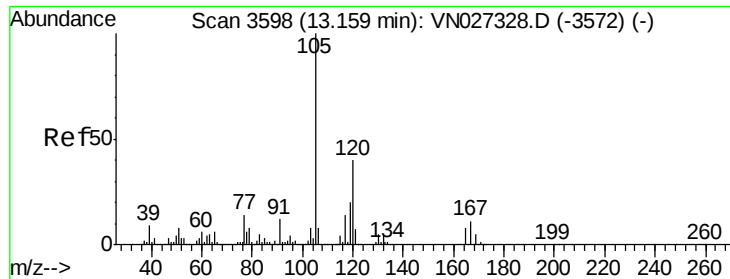
MMDadoda
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#84
tert-Butylbenzene
Concen: 17.75 ug/l
RT: 13.11 min Scan# 3584
Delta R.T. 0.00 min
Lab File: VN027327.D
Acq: 21 Sep 2015 11:14

Tgt Ion: 119 Resp: 438704
Ion Ratio Lower Upper
119 100
91 81.2 34.6 103.8
134 23.5 11.4 34.2





#85

1,2,4-Trimethylbenzene

Concen: 18.13 ug/l

RT: 13.16 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN027327.D

Acq: 21 Sep 2015 11:14

Instrument :

MSVOA_N

ClientSampled :

VSTDIC020

Tot Ion:105 Resp: 545635

Ion Ratio Lower Upper

105 100

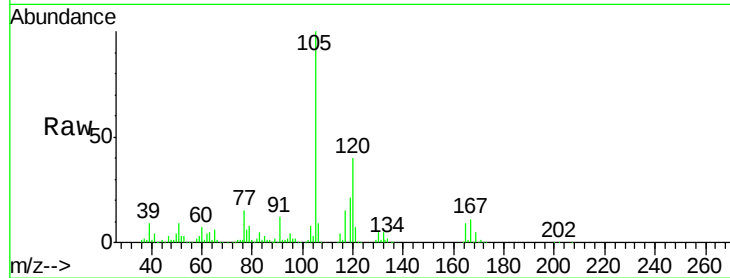
120 40.5 21.9 65.5

Manual Integrations

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

13.16

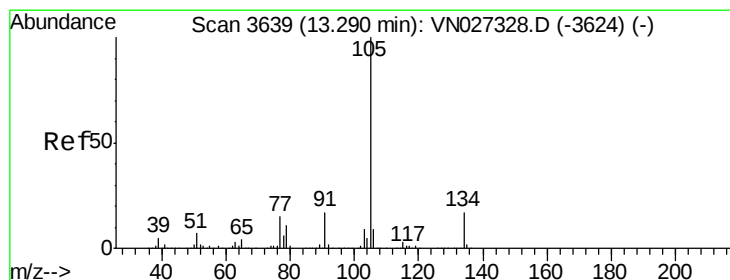
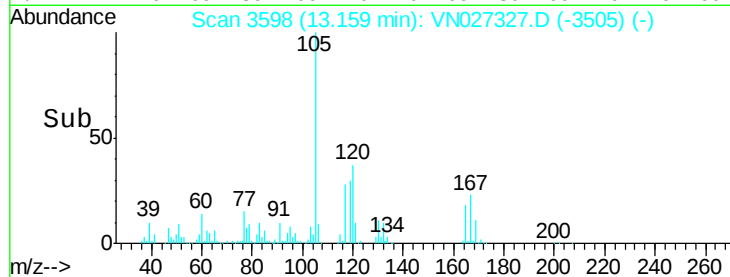
300000

200000

100000

0

Time-->



#86

sec-Butylbenzene

Concen: 18.18 ug/l

RT: 13.29 min Scan# 3640

Delta R.T. 0.00 min

Lab File: VN027327.D

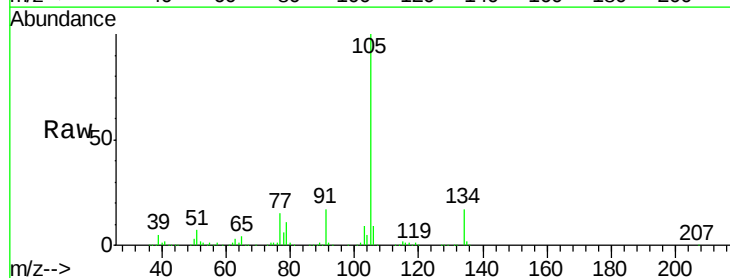
Acq: 21 Sep 2015 11:14

Tgt Ion:105 Resp: 658157

Ion Ratio Lower Upper

105 100

134 17.2 8.8 26.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

13.29

500000

400000

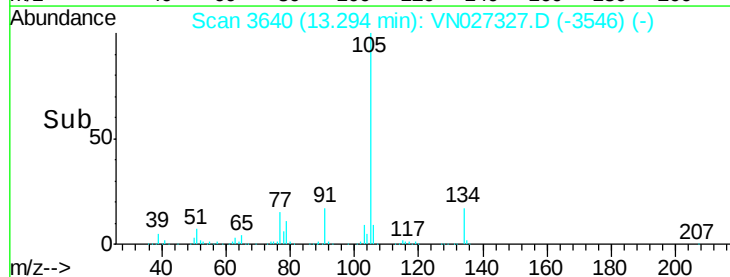
300000

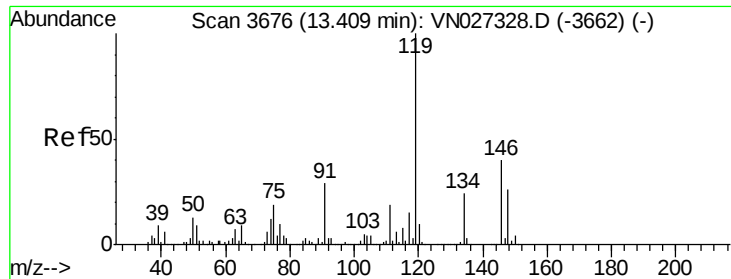
200000

100000

0

Time-->





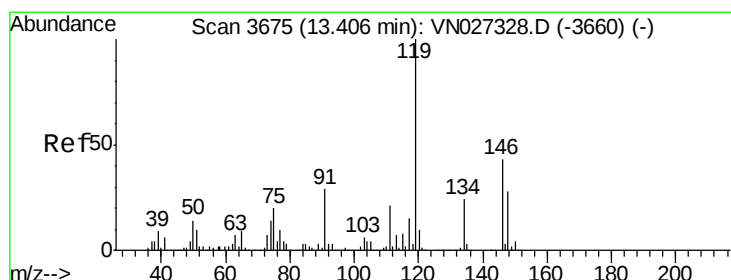
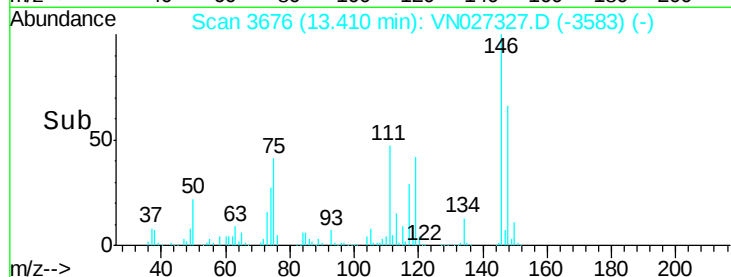
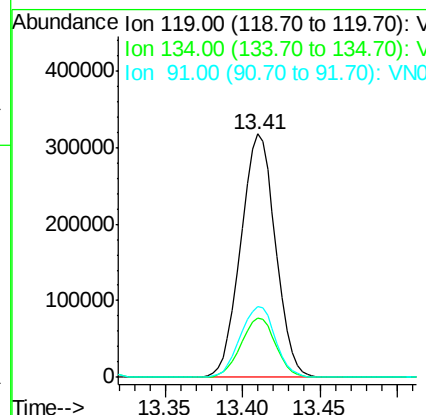
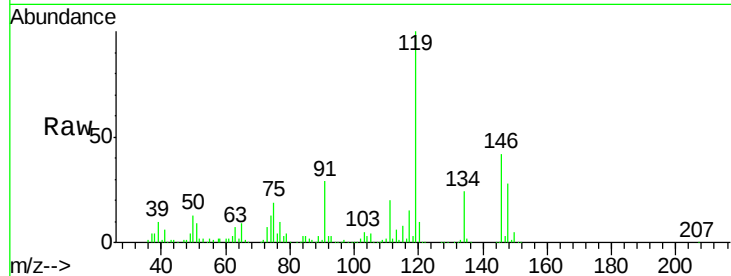
#87
 p-Isopropyltoluene
 Concen: 17.77 ug/l
 RT: 13.41 min Scan# 3676
 Delta R.T. 0.00 min
 Lab File: VN027327.D
 Acq: 21 Sep 2015 11:14

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
119	100	495495		
134	24.4	12.4	37.0	
91	29.2	12.0	36.1	

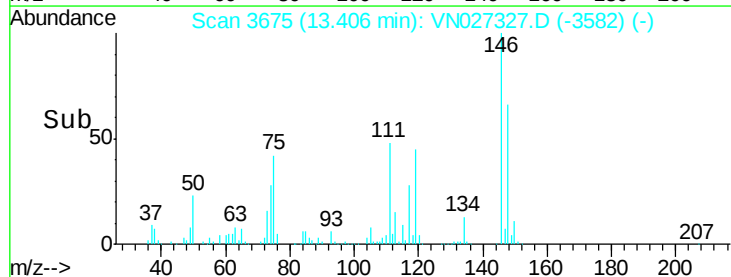
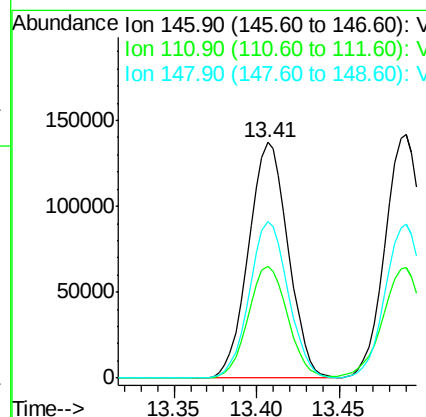
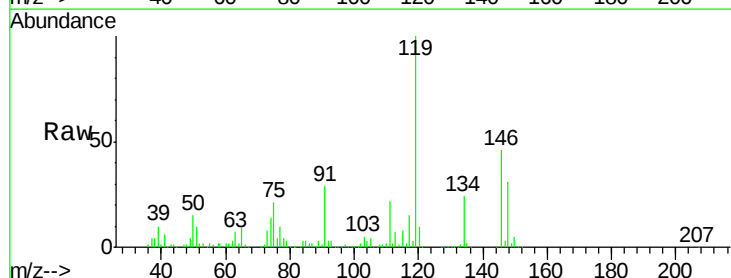
Manual Integrations
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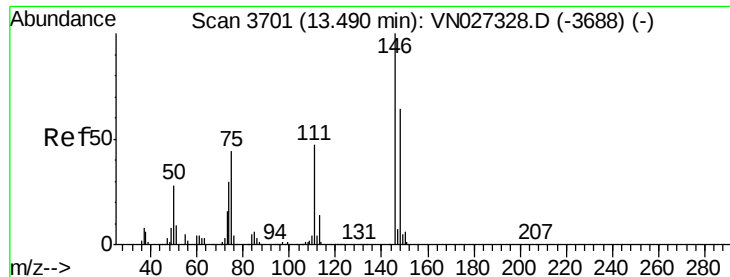
MMDadoda
 9/22/2015 2:27:49 PM



#88
 1,3-Dichlorobenzene
 Concen: 18.20 ug/l
 RT: 13.41 min Scan# 3675
 Delta R.T. 0.00 min
 Lab File: VN027327.D
 Acq: 21 Sep 2015 11:14

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	227757		
111	47.3	21.0	63.0	
148	65.2	31.9	95.9	





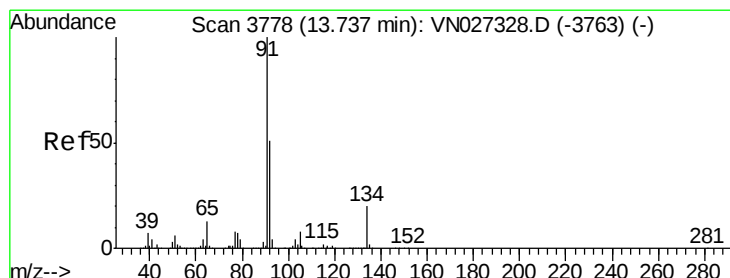
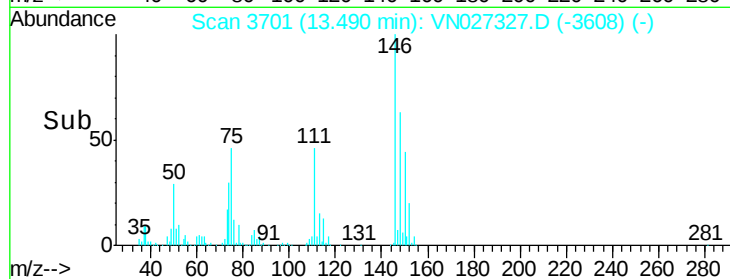
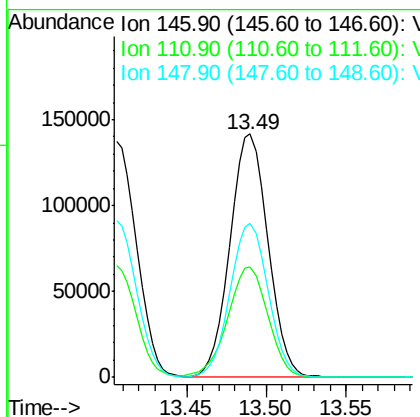
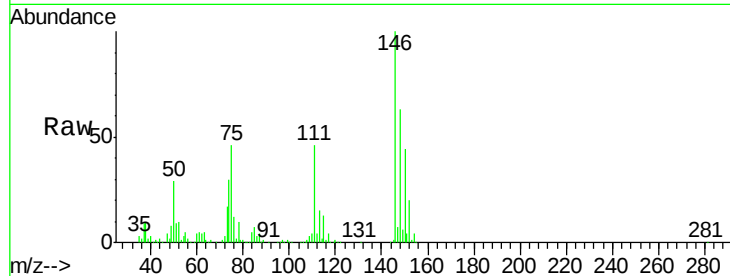
#89
 1,4-Dichlorobenzene
 Concen: 18.09 ug/l
 RT: 13.49 min Scan# 3701
 Delta R.T. 0.00 min
 Lab File: VN027327.D
 Acq: 21 Sep 2015 11:14

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
146	100		
111	47.9	19.9	59.6
148	63.7	31.7	95.1

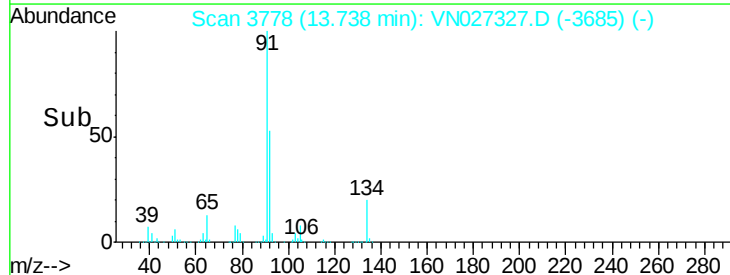
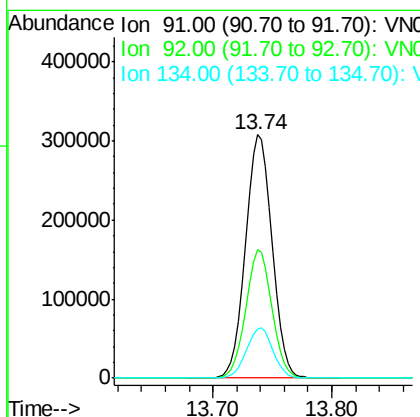
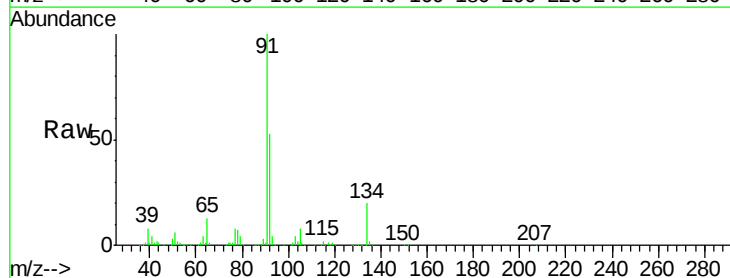
Manual Integrations
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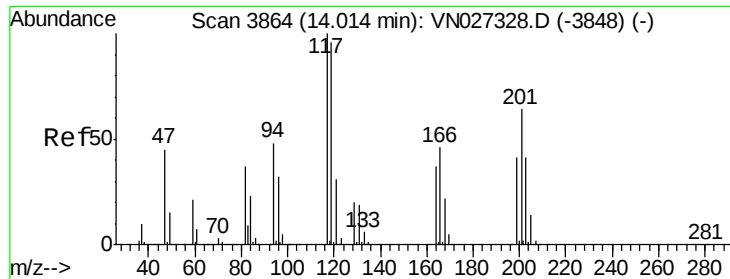
MMDadoda
 9/22/2015 2:27:49 PM



#90
 n-Butylbenzene
 Concen: 17.60 ug/l
 RT: 13.74 min Scan# 3778
 Delta R.T. 0.00 min
 Lab File: VN027327.D
 Acq: 21 Sep 2015 11:14

Tgt Ion	Ratio	Lower	Upper
91	100		
92	51.9	26.1	78.2
134	20.7	11.1	33.1





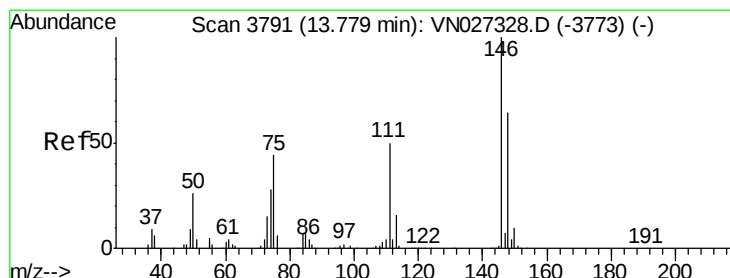
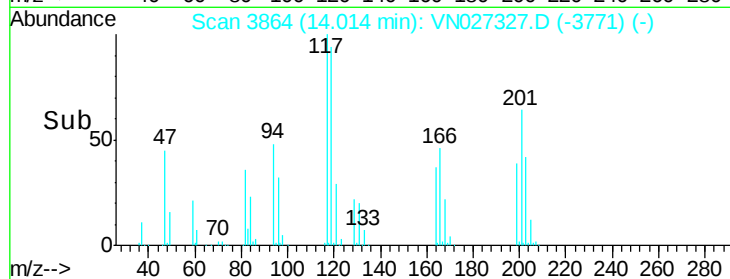
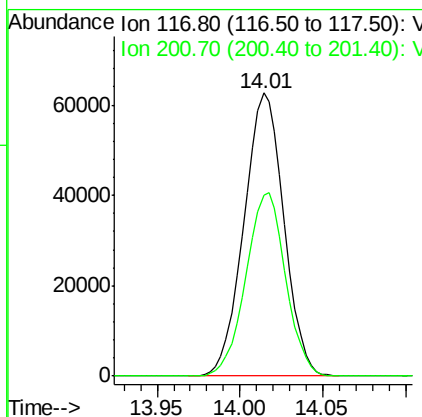
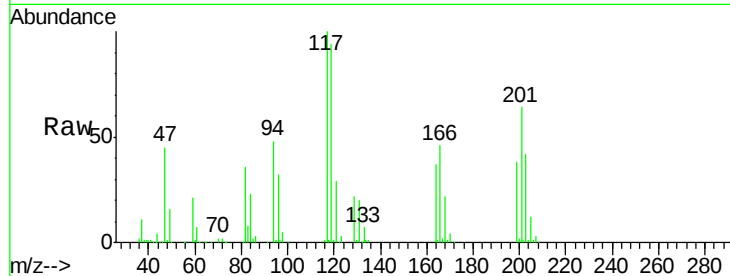
#91
Hexachloroethane
Concen: 17.22 ug/l
RT: 14.01 min Scan# 3864
Delta R.T. 0.00 min
Lab File: VN027327.D
Acq: 21 Sep 2015 11:14

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion:117 Resp: 105077
Ion Ratio Lower Upper
117 100
201 64.5 34.9 104.7

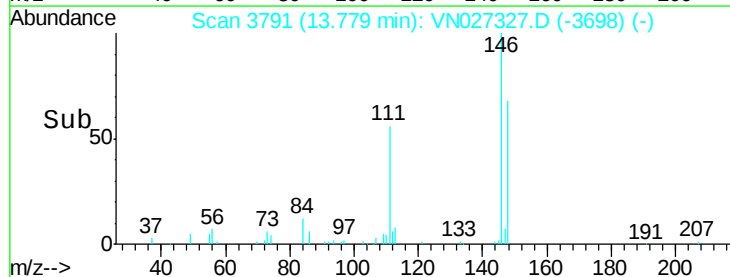
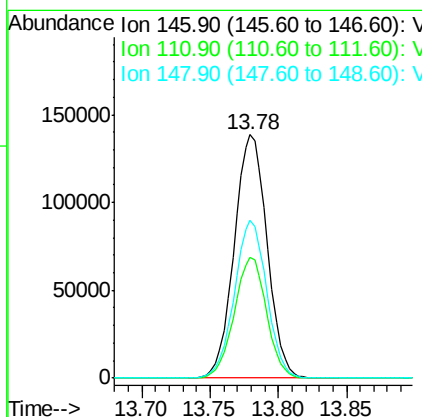
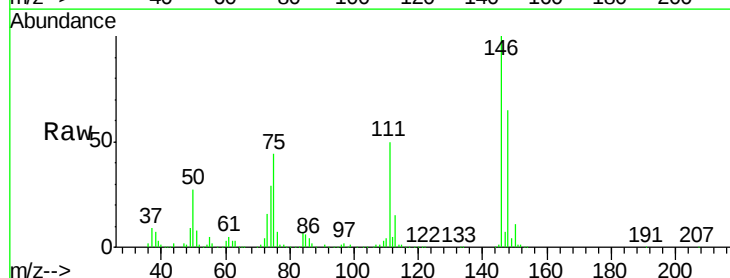
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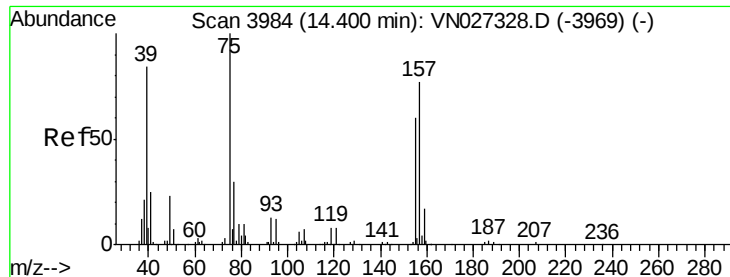
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9/22/2015 2:27:49 PM



#92
1,2-Dichlorobenzene
Concen: 18.71 ug/l
RT: 13.78 min Scan# 3791
Delta R.T. 0.00 min
Lab File: VN027327.D
Acq: 21 Sep 2015 11:14

Tgt Ion:146 Resp: 231414
Ion Ratio Lower Upper
146 100
111 48.7 22.1 66.3
148 63.6 32.0 96.0





#93

1,2-Dibromo-3-Chloropropane

Concen: 15.27 ug/l

RT: 14.40 min Scan# 3984

Delta R.T. 0.00 min

Lab File: VN027327.D

Acq: 21 Sep 2015 11:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 75 Resp: 36996

Ion Ratio Lower Upper

75 100

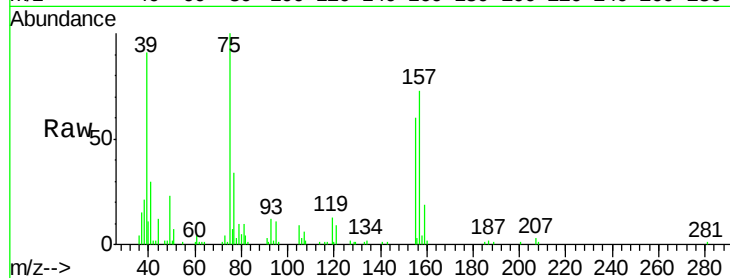
155 59.8 35.6 106.9

157 76.8 44.6 133.8

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9/22/2015 2:27:49 PM

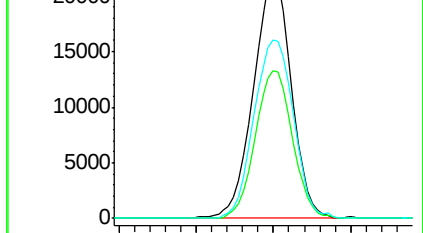
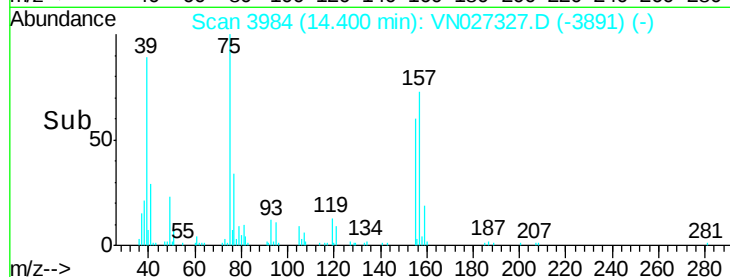


Abundance Ion 74.90 (74.60 to 75.60): VN027327.D (-3891) (-)

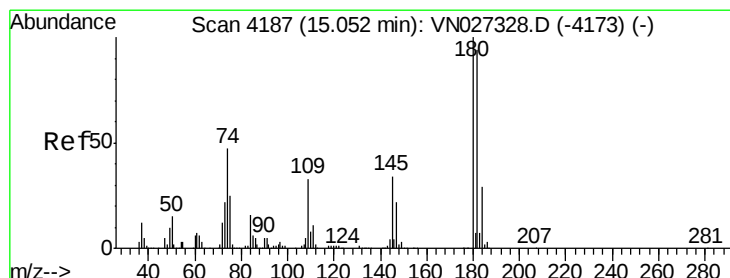
Ion 154.80 (154.50 to 155.50): VN027327.D (-3891) (-)

Ion 156.80 (156.50 to 157.50): VN027327.D (-3891) (-)

Time--> 14.30 14.35 14.40 14.45



Time--> 14.30 14.35 14.40 14.45



#94

1,2,4-Trichlorobenzene

Concen: 17.63 ug/l

RT: 15.06 min Scan# 4188

Delta R.T. 0.00 min

Lab File: VN027327.D

Acq: 21 Sep 2015 11:14

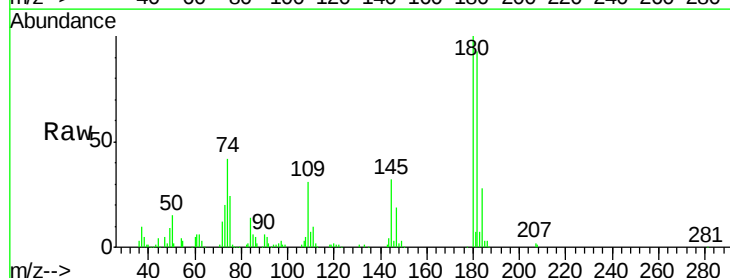
Tgt Ion: 180 Resp: 117770

Ion Ratio Lower Upper

180 100

182 94.0 47.5 142.5

145 33.3 15.1 45.3

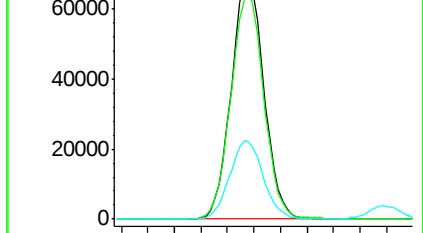
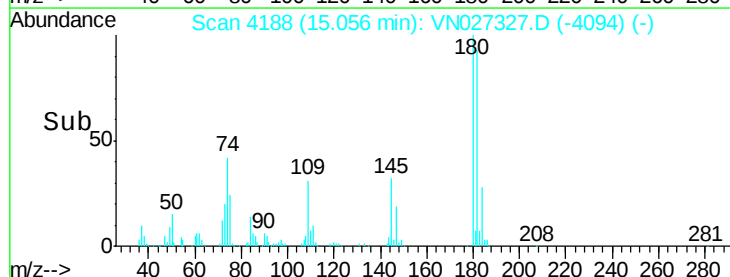


Abundance Ion 179.80 (179.50 to 180.50): VN027327.D (-4094) (-)

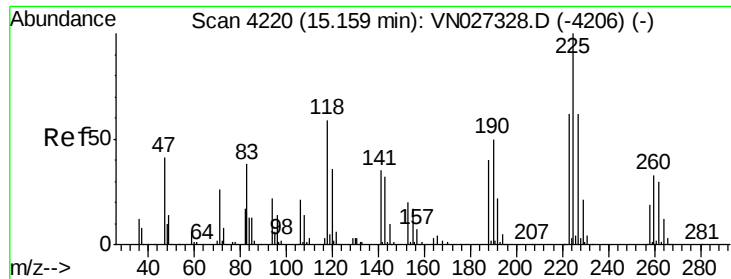
Ion 181.80 (181.50 to 182.50): VN027327.D (-4094) (-)

Ion 144.80 (144.50 to 145.50): VN027327.D (-4094) (-)

Time--> 15.00 15.05 15.10



Time--> 15.00 15.05 15.10



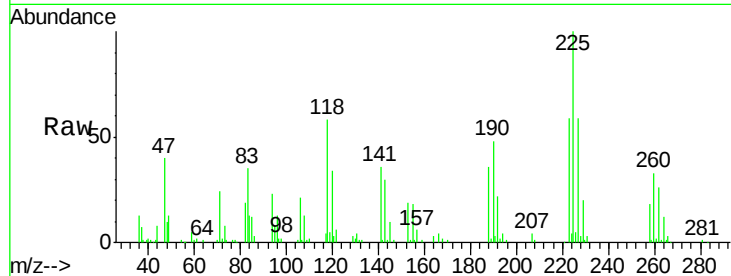
#95
Hexachlorobutadiene
Concen: 17.75 ug/l
RT: 15.16 min Scan# 4220
Delta R.T. 0.00 min
Lab File: VN027327.D
Acq: 21 Sep 2015 11:14

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
225	100		
223	62.0	30.8	92.3
227	61.8	31.7	95.1

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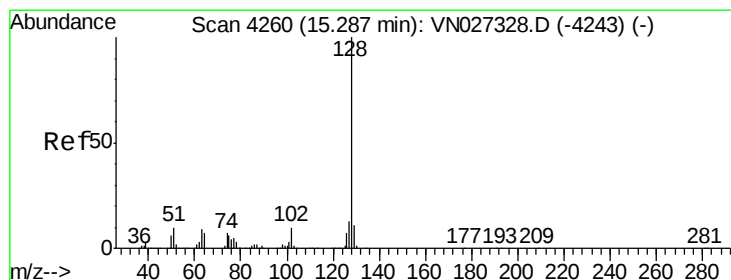
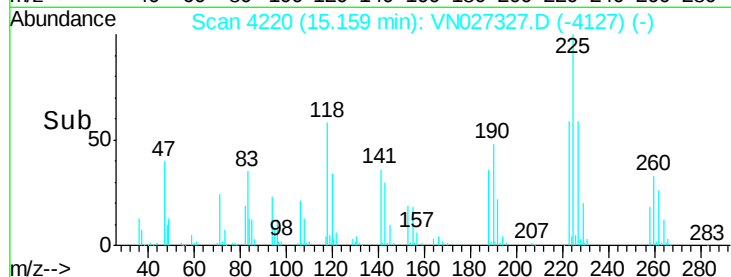
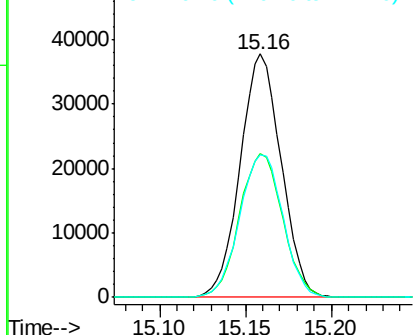


Abundance

Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#96
Naphthalene
Concen: 16.18 ug/l
RT: 15.29 min Scan# 4260
Delta R.T. 0.00 min
Lab File: VN027327.D
Acq: 21 Sep 2015 11:14

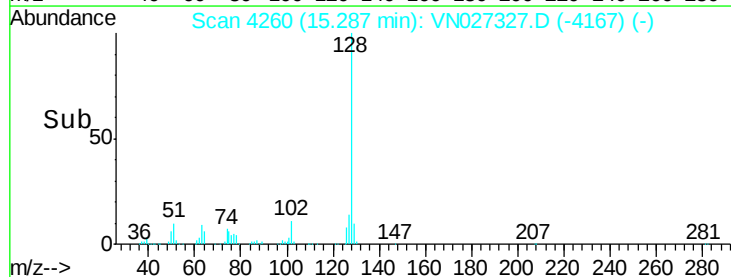
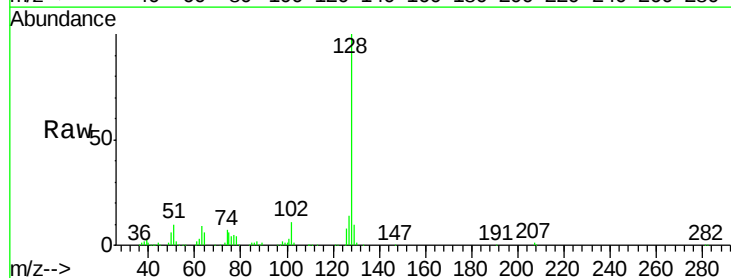
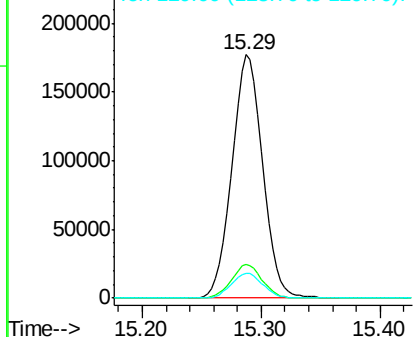
Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.7	10.4	15.6
129	10.7	8.6	12.8

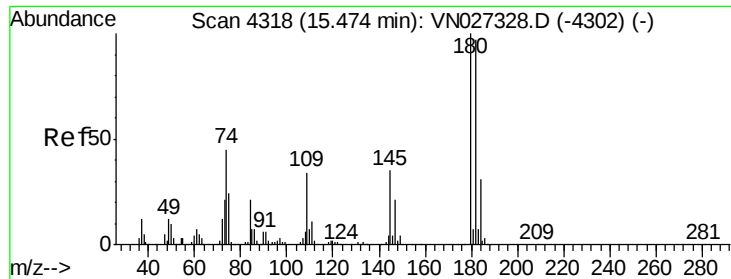
Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#97
 1,2,3-Trichlorobenzene
 Concen: 17.96 ug/l
 RT: 15.47 min Scan# 4318
 Delta R.T. 0.00 min
 Lab File: VN027327.D
 Acq: 21 Sep 2015 11:14

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion:	180	Resp:	119258
Ion Ratio	Lower	Upper	
180	100		
182	91.2	48.8	146.4
145	34.1	16.6	49.8

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