

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN020819\
 Data File : VN053688.D
 Acq On : 8 Feb 2019 18:12
 Operator : JC/SP
 Sample : VN0208WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0208WBSD01

Manual Integrations
 APPROVED

MMDadoda
 2/11/2019 9:49:55 AM

Quant Time: Feb 09 03:32:47 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N013019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 01 09:11:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	707222	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1126768	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	965319	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	449590	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	378651	53.37	ug/l	0.00
Spiked Amount 50.000			Recovery	=	106.74%	
35) Dibromofluoromethane	7.59	113	362445	50.91	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.82%	
50) Toluene-d8	10.09	98	1312915	49.11	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.22%	
62) 4-Bromofluorobenzene	12.40	95	439316	49.27	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.54%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.85	85	147655	18.732	ug/l	100
3) Chloromethane	2.06	50	168779	20.102	ug/l	98
4) Vinyl Chloride	2.19	62	165507	20.306	ug/l	99
5) Bromomethane	2.57	94	122961	23.073	ug/l	98
6) Chloroethane	2.71	64	113694	24.410	ug/l	98
7) Trichlorofluoromethane	3.02	101	221852	20.072	ug/l	98
8) Diethyl Ether	3.41	74	86518	21.434	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.76	101	134159	19.627	ug/l	99
10) Methyl Iodide	3.96	142	206899	19.284	ug/l	99
11) Tert butyl alcohol	4.78	59	50405	120.044	ug/l #	90
12) 1,1-Dichloroethene	3.74	96	132843	20.284	ug/l	98
13) Acrolein	3.61	56	16421	71.829	ug/l	96
14) Allyl chloride	4.33	41	211265	20.260	ug/l	99
15) Acrylonitrile	4.99	53	256501	113.157	ug/l	99
16) Acetone	3.82	43	170880	93.899	ug/l	99
17) Carbon Disulfide	4.06	76	358502	17.580	ug/l	100
18) Methyl Acetate	4.33	43	126626	23.495	ug/l	97
19) Methyl tert-butyl Ether	5.05	73	371203	22.359	ug/l	100
20) Methylene Chloride	4.55	84	177124	23.199	ug/l	97
21) trans-1,2-Dichloroethene	5.05	96	139566	19.753	ug/l	97
22) Diisopropyl ether	5.95	45	415480	21.504	ug/l	94
23) Vinyl Acetate	5.90	43	1436937	107.506	ug/l	99
24) 1,1-Dichloroethane	5.85	63	268667	20.848	ug/l	100
25) 2-Butanone	6.84	43	271088	104.446	ug/l	98
26) 2,2-Dichloropropane	6.82	77	179667	18.263	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	163213	20.774	ug/l	98
28) Bromochloromethane	7.20	49	121090	21.652	ug/l	97
29) Tetrahydrofuran	7.21	42	190965	114.581	ug/l	98
30) Chloroform	7.37	83	262528	20.550	ug/l	98
31) Cyclohexane	7.65	56	232785	19.297	ug/l	97
32) 1,1,1-Trichloroethane	7.57	97	216731	20.386	ug/l	99
36) 1,1-Dichloropropene	7.79	75	197242	19.419	ug/l	98
37) Ethyl Acetate	6.93	43	128746	22.695	ug/l	100
38) Carbon Tetrachloride	7.78	117	190305	18.599	ug/l	100

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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	215709	17.901	ug/l	99
40) Benzene	8.04	78	614275	19.612	ug/l	98
41) Methacrylonitrile	7.17	41	61311	19.338	ug/l #	86
42) 1,2-Dichloroethane	8.12	62	180483	19.406	ug/l	98
43) Isopropyl Acetate	8.17	43	229363	20.936	ug/l	97
44) Trichloroethene	8.84	130	165175	18.523	ug/l	98
45) 1,2-Dichloropropane	9.12	63	162267	20.255	ug/l	99
46) Dibromomethane	9.21	93	95475	19.770	ug/l	98
47) Bromodichloromethane	9.40	83	196403	19.560	ug/l	98
48) Methyl methacrylate	9.20	41	108982	20.840	ug/l	99
49) 1,4-Dioxane	9.20	88	31513	438.715	ug/l	94
51) 4-Methyl-2-Pentanone	9.99	43	585658	108.788	ug/l	99
52) Toluene	10.16	92	365043	19.637	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	192510	19.146	ug/l	96
54) cis-1,3-Dichloropropene	9.84	75	231103	19.396	ug/l	98
55) 1,1,2-Trichloroethane	10.56	97	134898	20.138	ug/l	99
56) Ethyl methacrylate	10.43	69	167878	21.185	ug/l	97
57) 1,3-Dichloropropane	10.71	76	230194	20.107	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	383179	83.480	ug/l	98
59) 2-Hexanone	10.75	43	362950	99.311	ug/l	99
60) Dibromochloromethane	10.90	129	148941	19.717	ug/l	99
61) 1,2-Dibromoethane	11.01	107	130934	19.749	ug/l	100
64) Tetrachloroethene	10.63	164	154292	18.646	ug/l	98
65) Chlorobenzene	11.43	112	398158	19.418	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	144597	20.192	ug/l	99
67) Ethyl Benzene	11.51	91	661646	19.644	ug/l	99
68) m/p-Xylenes	11.62	106	511067	39.755	ug/l	99
69) o-Xylene	11.95	106	250833	20.197	ug/l	99
70) Styrene	11.96	104	407823	20.260	ug/l	99
71) Bromoform	12.13	173	100937	20.560	ug/l #	100
73) Isopropylbenzene	12.25	105	655150	20.729	ug/l	100
74) N-amyl acetate	12.07	43	165062	21.718	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.50	83	162040	21.422	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	120899m	20.936	ug/l	
77) Bromobenzene	12.53	156	175469	20.600	ug/l	98
78) n-propylbenzene	12.59	91	743584	20.352	ug/l	100
79) 2-Chlorotoluene	12.68	91	445135	20.536	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	554080	21.141	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	41374	20.147	ug/l	99
82) 4-Chlorotoluene	12.77	91	445774	20.041	ug/l	99
83) tert-Butylbenzene	12.99	119	495509	21.391	ug/l	100
84) 1,2,4-Trimethylbenzene	13.04	105	559955	20.971	ug/l	100
85) sec-Butylbenzene	13.17	105	666041	21.130	ug/l	100
86) p-Isopropyltoluene	13.29	119	574557	20.841	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	297216	19.410	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	293980	19.409	ug/l	100
89) n-Butylbenzene	13.62	91	465375	19.503	ug/l	100
90) Hexachloroethane	13.88	117	94341	20.747	ug/l	98
91) 1,2-Dichlorobenzene	13.65	146	298377	20.354	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	23887	22.159	ug/l	99

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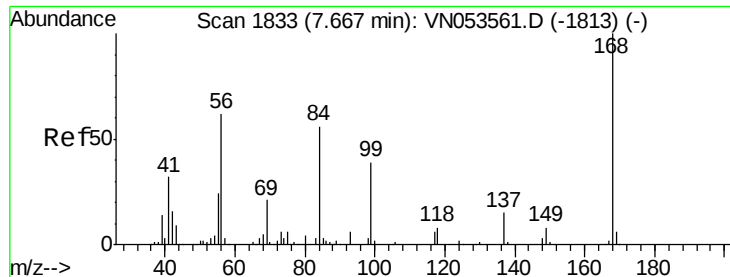
Manual Integrations
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MMDadoda
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	159603	18.983	ug/l	99
94) Hexachlorobutadiene	15.01	225	104132	19.888	ug/l	100
95) Naphthalene	15.13	128	349225	18.805	ug/l	100
96) 1,2,3-Trichlorobenzene	15.31	180	155667	19.955	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN053688.D

Acq: 8 Feb 2019 18:12

Instrument :

MSVOA_N

ClientSampleId :

VN0208WBSD01

Tot Ion:168 Resp: 707222

Ion Ratio Lower Upper

168 100

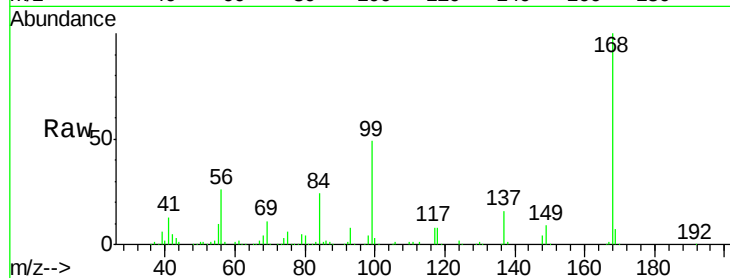
99 48.1 39.1 58.7

Manual Integrations

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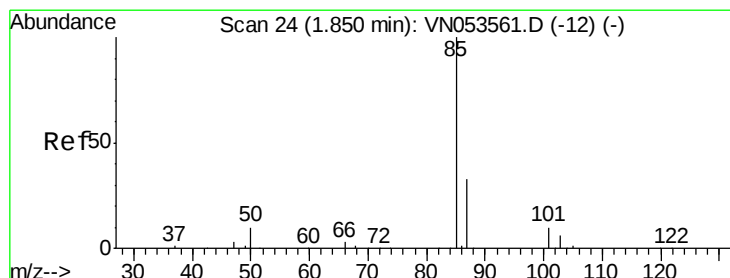
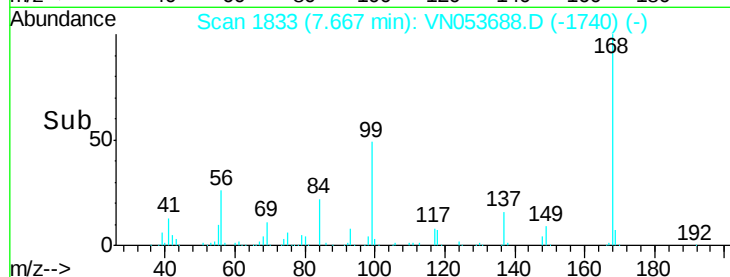
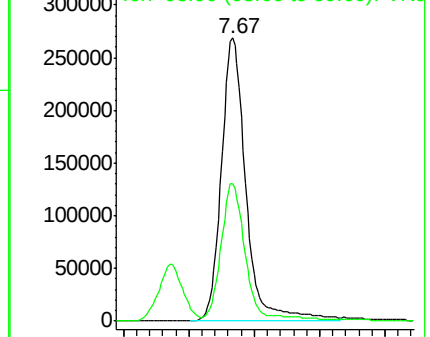
MMDadoda

2/11/2019 9:49:55 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#2

Dichlorodifluoromethane

Concen: 18.732 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN053688.D

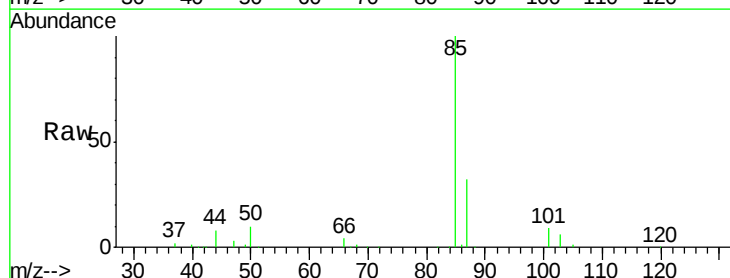
Acq: 8 Feb 2019 18:12

Tgt Ion: 85 Resp: 147655

Ion Ratio Lower Upper

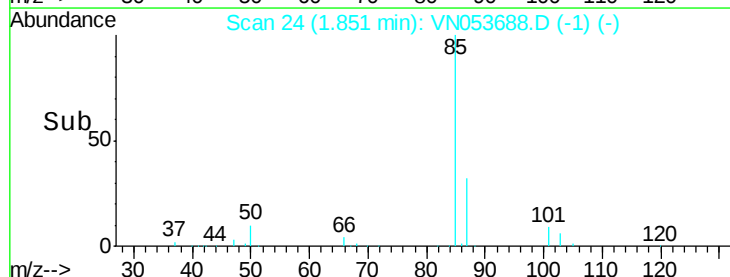
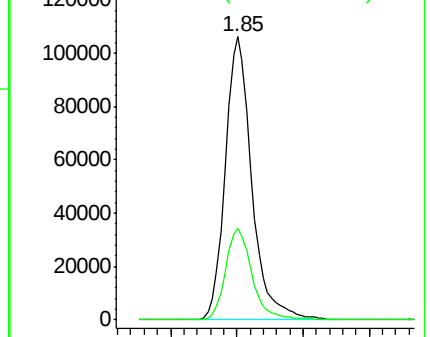
85 100

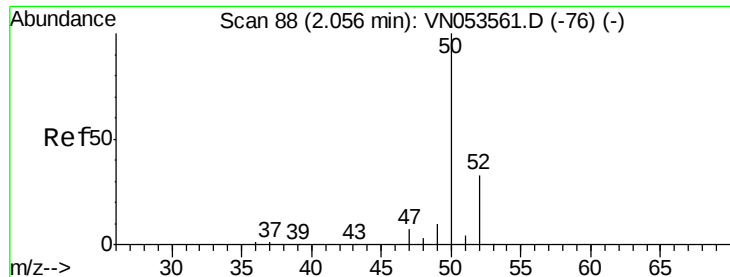
87 32.3 16.2 48.5



Abundance Ion 84.90 (84.60 to 85.60): VN0

Ion 86.90 (86.60 to 87.60): VN0





#3

Chloromethane

Concen: 20.102 ug/l

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN053688.D

Acq: 8 Feb 2019 18:12

Instrument :

MSVOA_N

ClientSampleId :

VN0208WBSD01

Tot Ion: 50 Resp: 168779

Ion Ratio Lower Upper

50 100

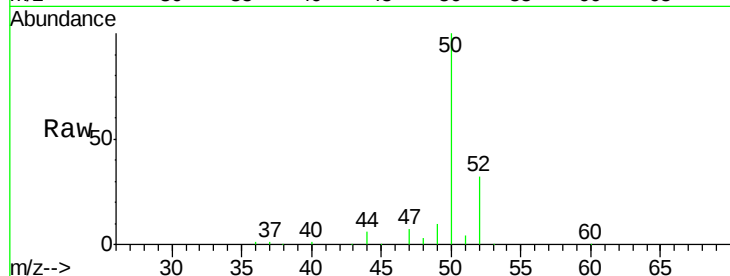
52 32.0 26.6 40.0

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Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0

2.06

120000

100000

80000

60000

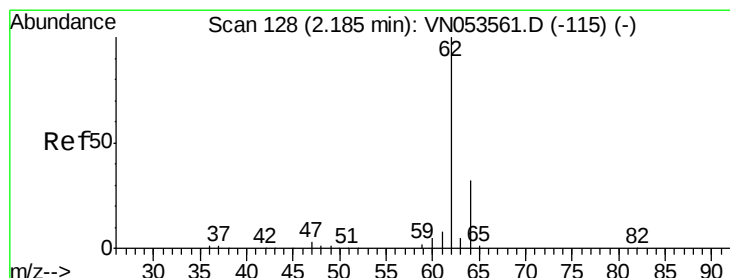
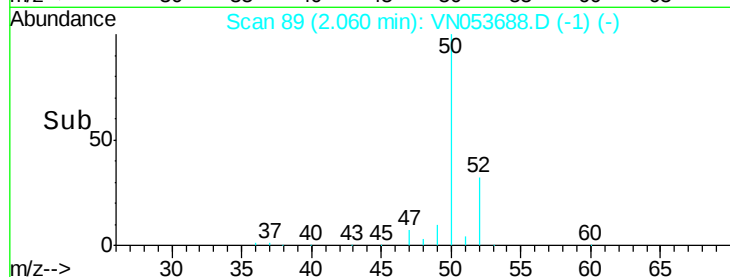
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20000

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Time-->

2.00 2.05 2.10 2.15



#4

Vinyl Chloride

Concen: 20.306 ug/l

RT: 2.19 min Scan# 129

Delta R.T. 0.00 min

Lab File: VN053688.D

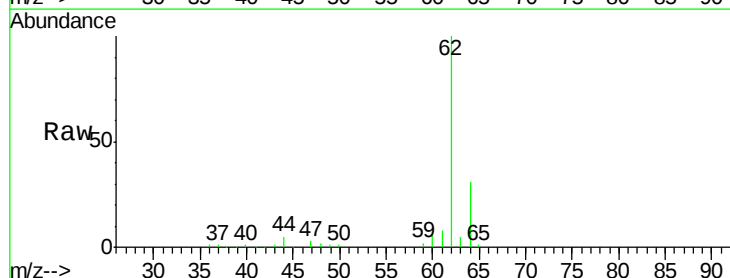
Acq: 8 Feb 2019 18:12

Tgt Ion: 62 Resp: 165507

Ion Ratio Lower Upper

62 100

64 31.3 25.4 38.2



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0

2.19

120000

100000

80000

60000

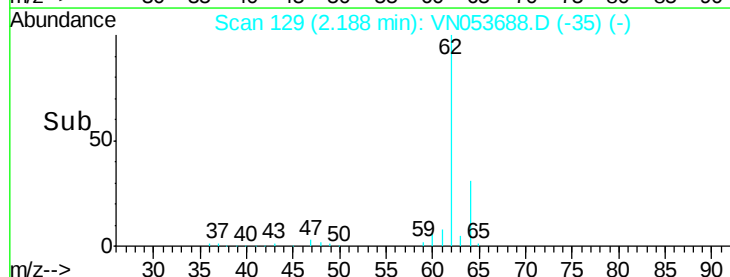
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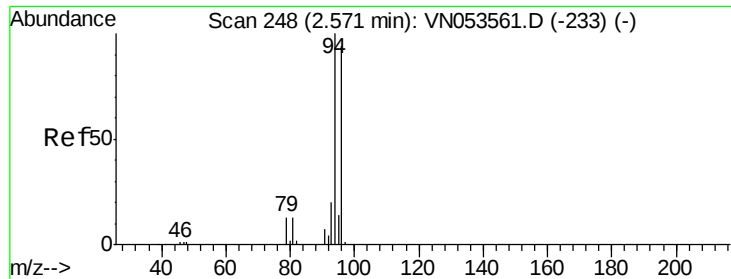
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0

Time-->

2.10 2.15 2.20 2.25 2.30





#5

Bromomethane

Concen: 23.073 ug/l

RT: 2.57 min Scan# 249

Delta R.T. 0.00 min

Lab File: VN053688.D

Acq: 8 Feb 2019 18:12

Instrument :

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ClientSampleId :

VN0208WBSD01

Tot Ion: 94 Resp: 122961

Ion Ratio Lower Upper

94 100

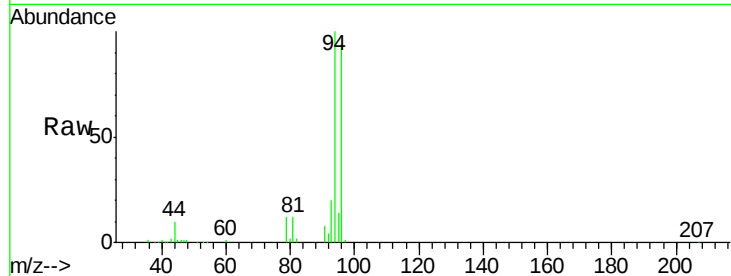
96 93.6 76.8 115.2

Manual Integrations

APPROVED

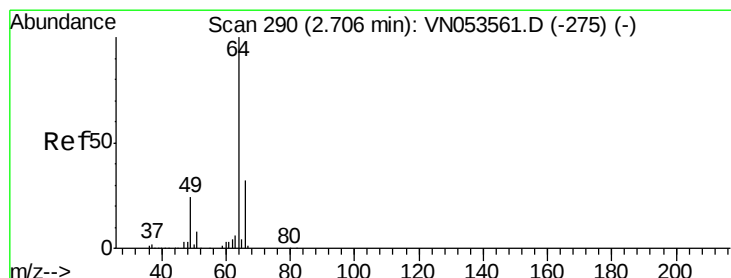
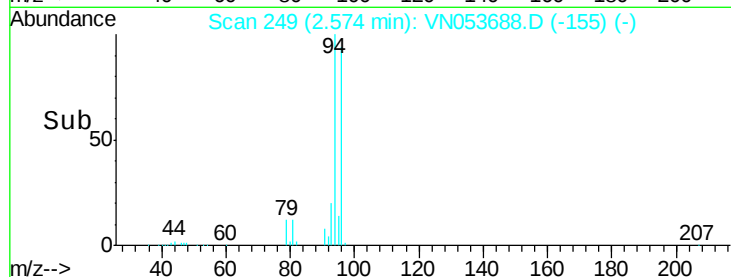
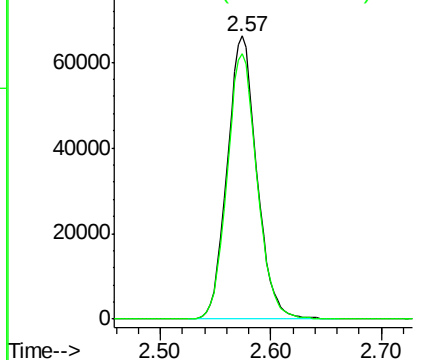
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Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 24.410 ug/l

RT: 2.71 min Scan# 291

Delta R.T. 0.00 min

Lab File: VN053688.D

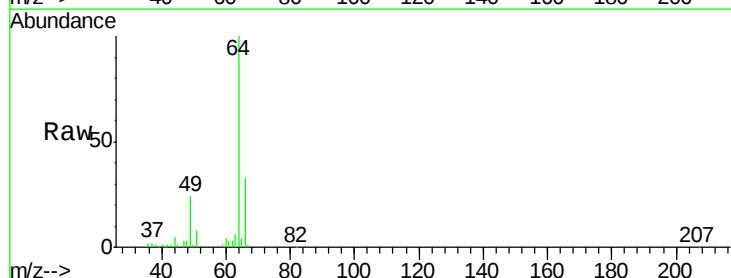
Acq: 8 Feb 2019 18:12

Tgt Ion: 64 Resp: 113694

Ion Ratio Lower Upper

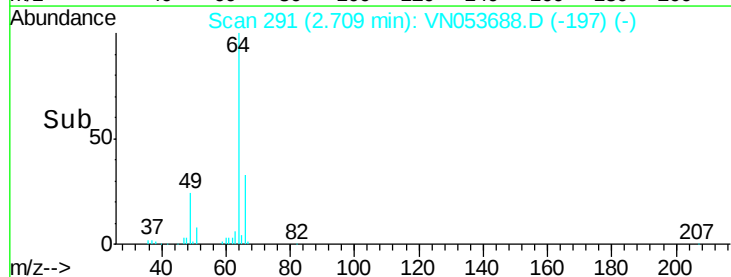
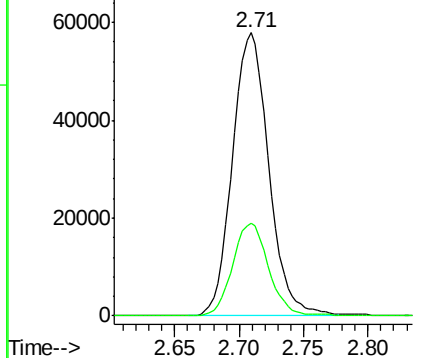
64 100

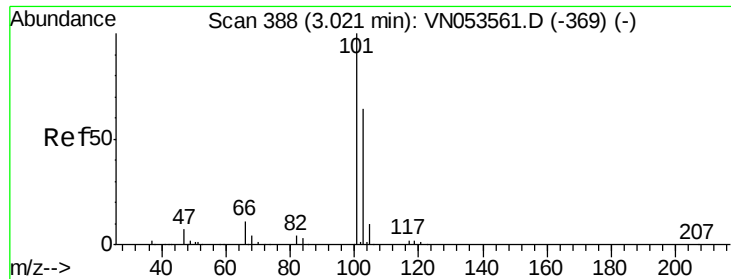
66 32.8 25.1 37.7



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#7

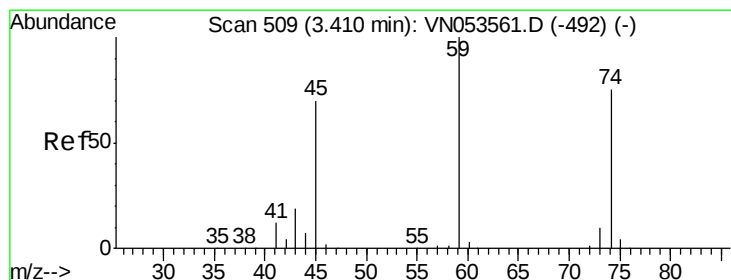
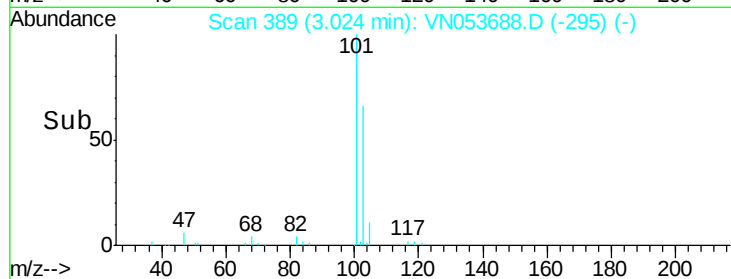
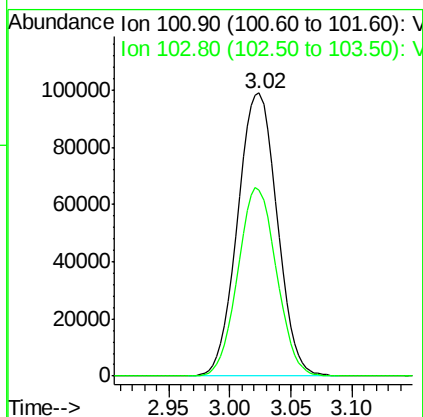
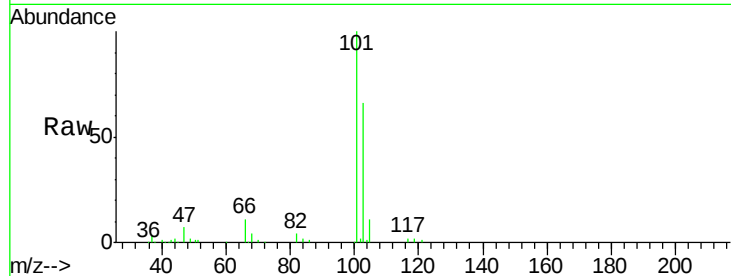
Trichlorofluoromethane
Concen: 20.072 ug/l
RT: 3.02 min Scan# 389
Delta R.T. 0.00 min
Lab File: VN053688.D
Acq: 8 Feb 2019 18:12

Instrument :
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ClientSampleId :
VN0208WBSD01

Tot Ion	Ratio	Lower	Upper
101	100		
103	65.9	51.6	77.4

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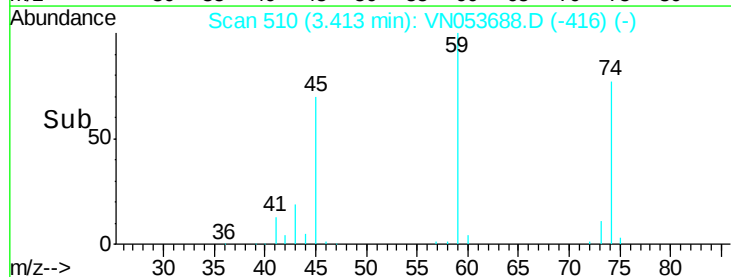
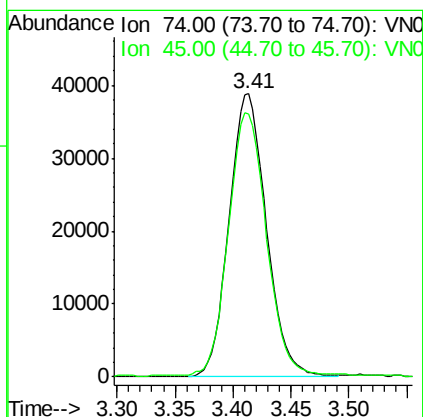
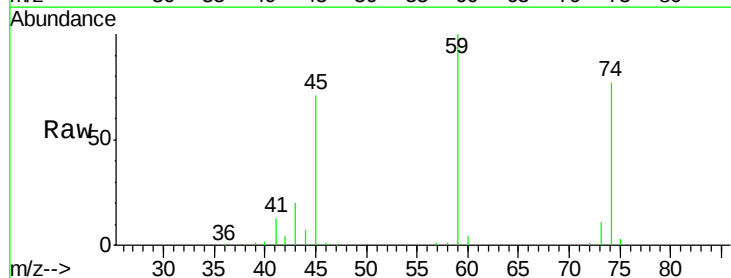
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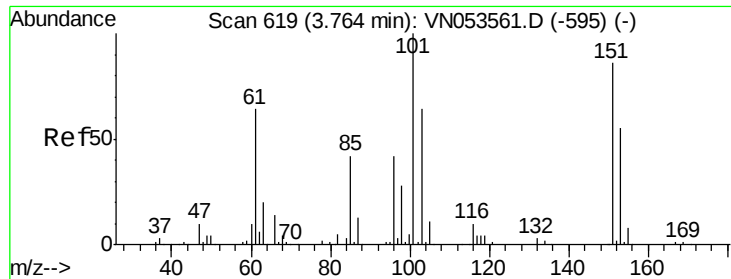


#8

Diethyl Ether
Concen: 21.434 ug/l
RT: 3.41 min Scan# 510
Delta R.T. 0.00 min
Lab File: VN053688.D
Acq: 8 Feb 2019 18:12

Tgt Ion	Ratio	Lower	Upper
74	100		
45	94.3	47.9	143.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.627 ug/l

RT: 3.76 min Scan# 619

Delta R.T. 0.00 min

Lab File: VN053688.D

Acq: 8 Feb 2019 18:12

Instrument :

MSVOA_N

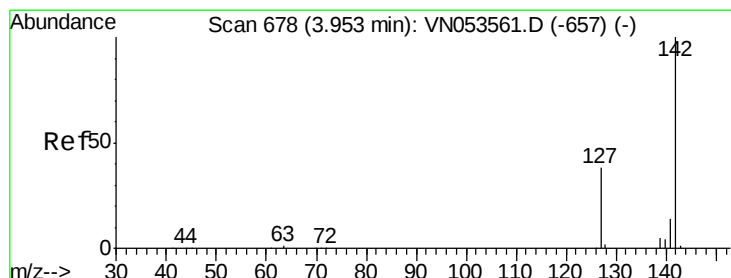
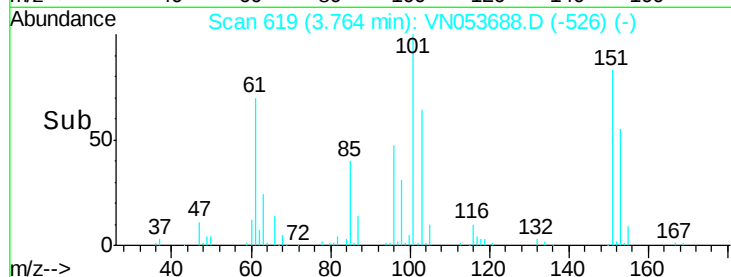
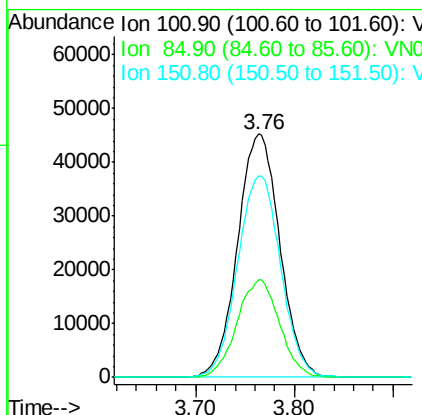
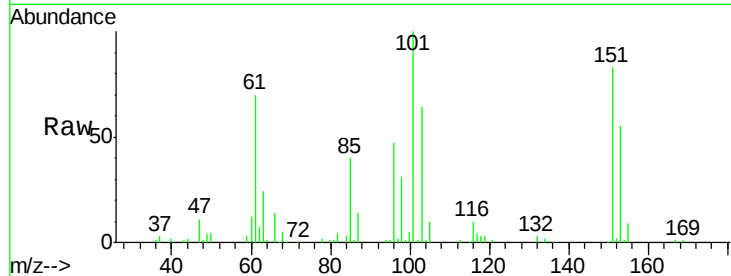
ClientSampleId :

VN0208WBSD01

Tot Ion:	101	Resp:	134159
Ion Ratio	Lower	Upper	
101	100		
85	40.2	32.8	49.2
151	84.6	66.9	100.3

Manual Integrations
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#10

Methyl Iodide

Concen: 19.284 ug/l

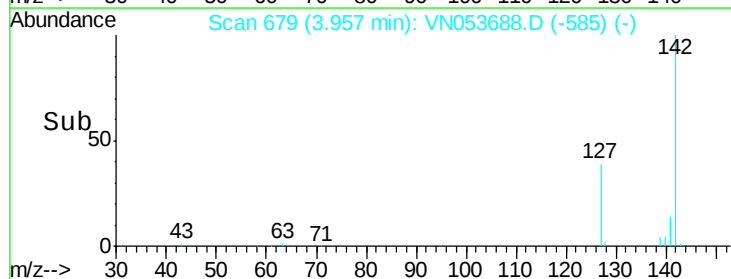
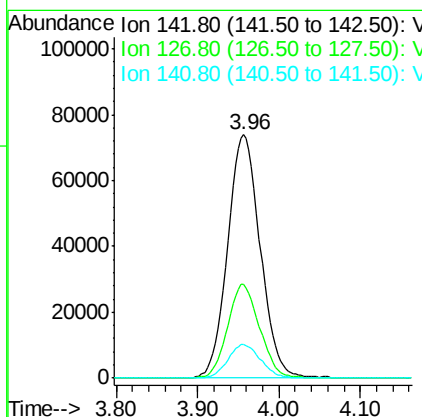
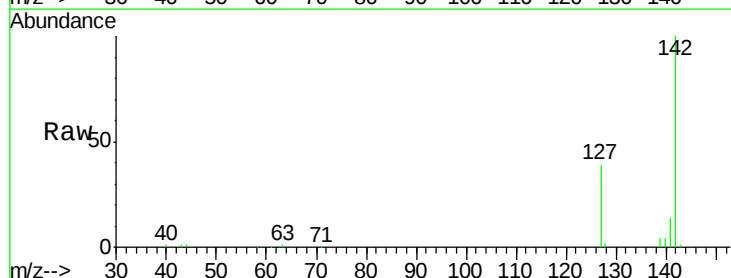
RT: 3.96 min Scan# 679

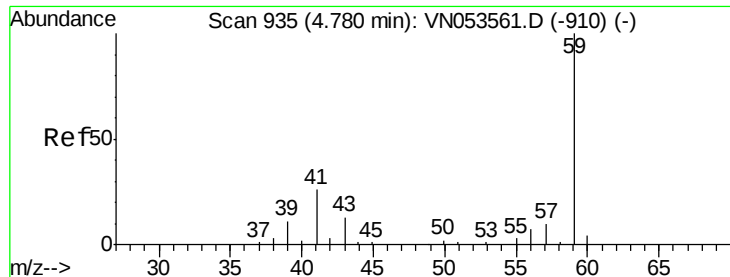
Delta R.T. 0.00 min

Lab File: VN053688.D

Acq: 8 Feb 2019 18:12

Tgt Ion:	142	Resp:	206899
Ion Ratio	Lower	Upper	
142	100		
127	37.9	31.0	46.4
141	13.9	11.1	16.7





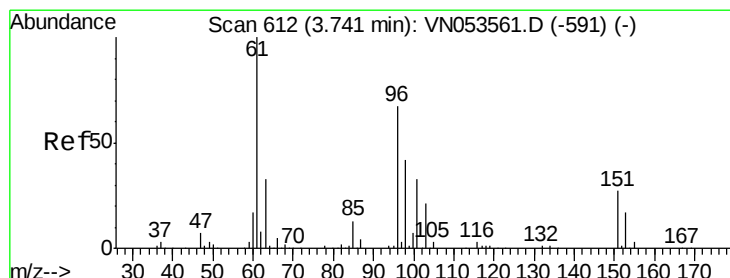
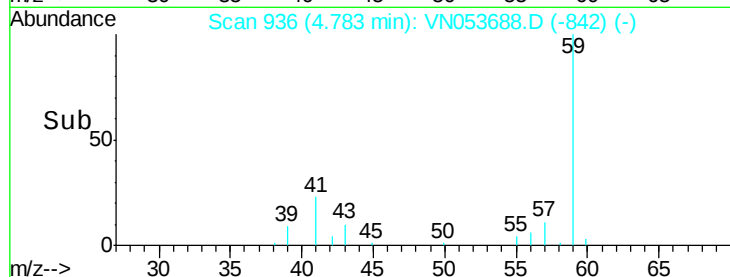
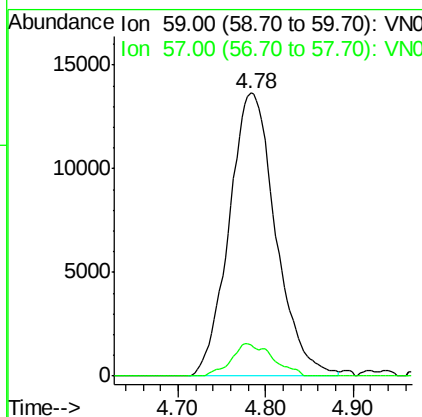
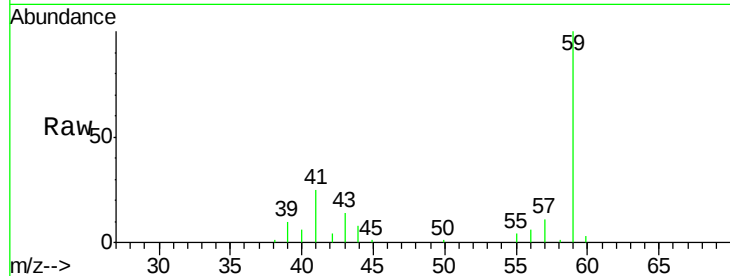
#11
Tert butyl alcohol
Concen: 120.044 ug/l
RT: 4.78 min Scan# 936
Delta R.T. 0.00 min
Lab File: VN053688.D
Acq: 8 Feb 2019 18:12

Instrument :
MSVOA_N
ClientSampleId :
VN0208WBSD01

Tot Ion: 59 Resp: 50405
Ion Ratio Lower Upper
59 100
57 6.5 8.2 12.4#

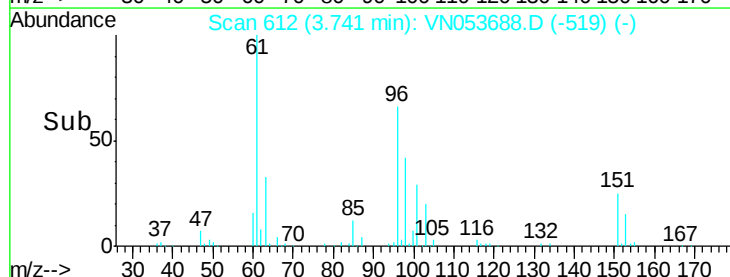
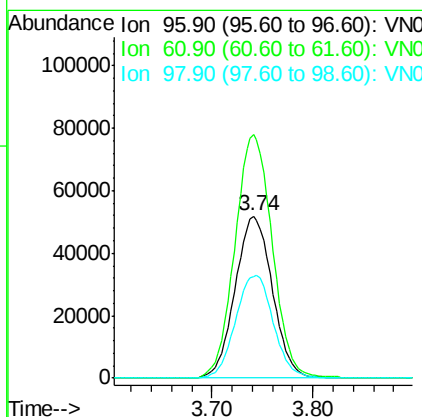
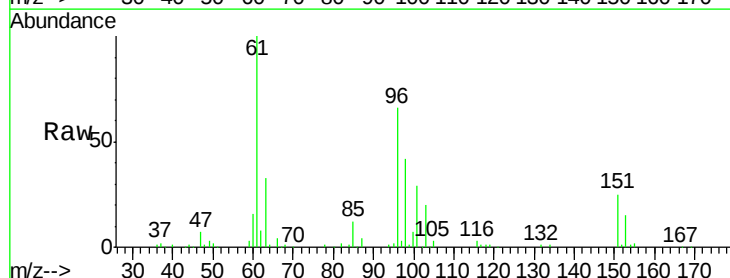
Manual Integrations
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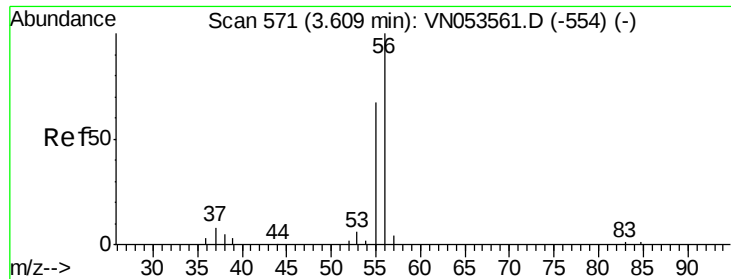
MMDadoda
2/11/2019 9:49:55 AM



#12
1,1-Dichloroethene
Concen: 20.284 ug/l
RT: 3.74 min Scan# 612
Delta R.T. 0.00 min
Lab File: VN053688.D
Acq: 8 Feb 2019 18:12

Tgt Ion: 96 Resp: 132843
Ion Ratio Lower Upper
96 100
61 150.6 122.9 184.3
98 63.0 49.4 74.0





#13

Acrolein

Concen: 71.829 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN053688.D

Acq: 8 Feb 2019 18:12

Instrument :

MSVOA_N

ClientSampleId :

VN0208WBSD01

Tot Ion: 56 Resp: 16421

Ion Ratio Lower Upper

56 100

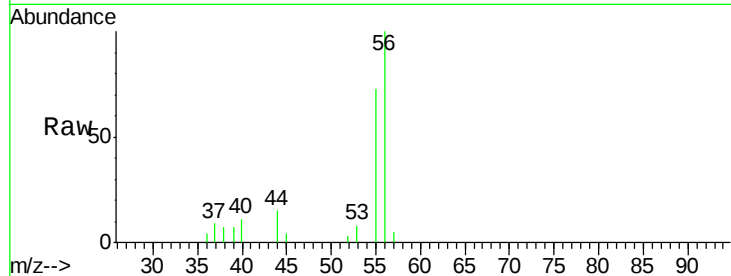
55 75.2 57.4 86.0

Manual Integrations

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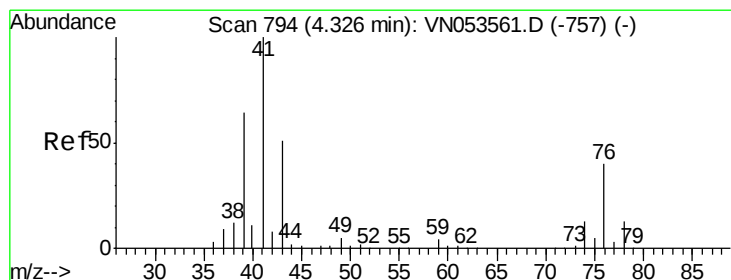
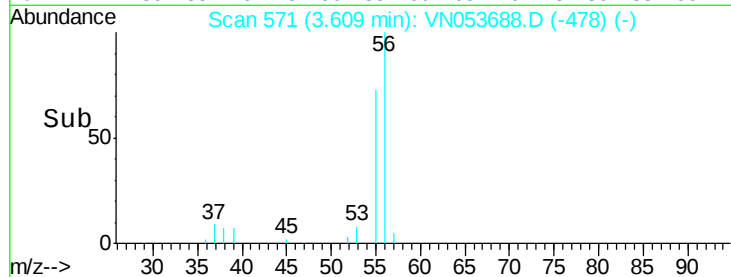
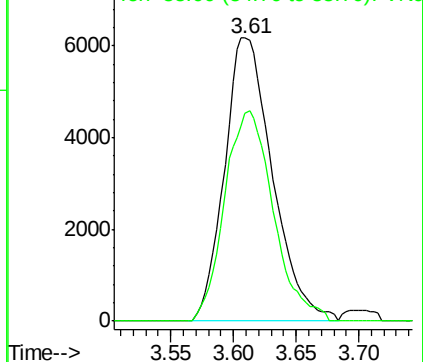
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Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Allyl chloride

Concen: 20.260 ug/l

RT: 4.33 min Scan# 794

Delta R.T. 0.00 min

Lab File: VN053688.D

Acq: 8 Feb 2019 18:12

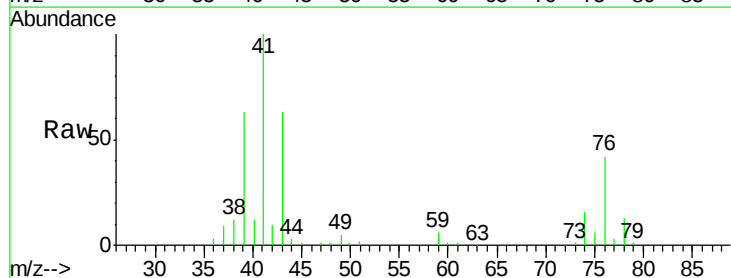
Tgt Ion: 41 Resp: 211265

Ion Ratio Lower Upper

41 100

39 60.9 48.9 73.3

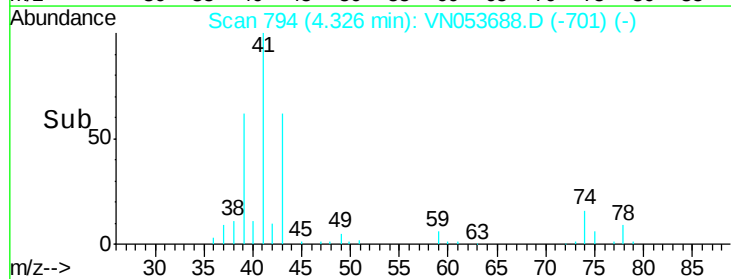
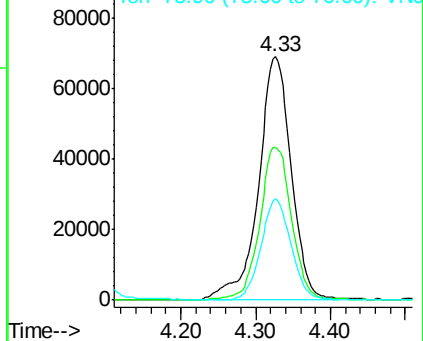
76 38.1 29.4 44.2



Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





#15

Acrylonitrile

Concen: 113.157 ug/l

RT: 4.99 min Scan# 1001

Delta R.T. 0.01 min

Lab File: VN053688.D

Acq: 8 Feb 2019 18:12

Instrument :

MSVOA_N

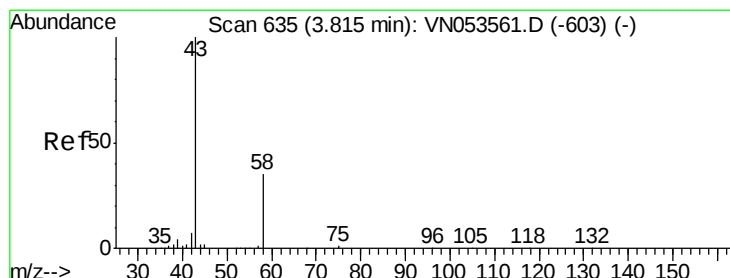
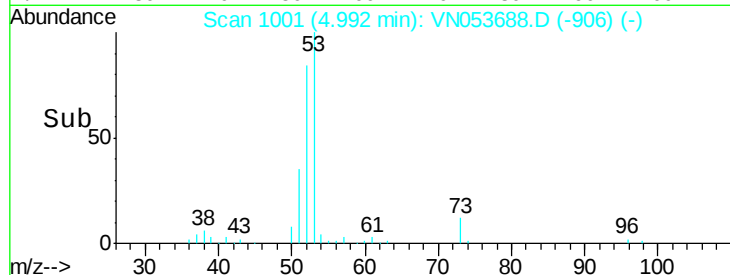
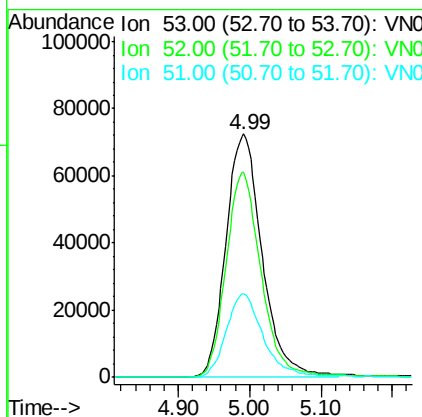
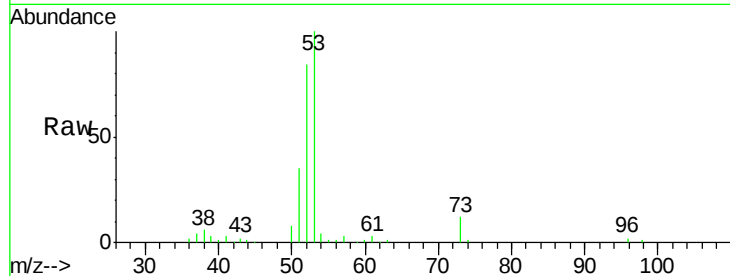
ClientSampleId :

VN0208WBSD01

Tot Ion:	53	Resp:	256501
Ion	Ratio	Lower	Upper
53	100		
52	80.9	66.0	99.0
51	35.1	28.3	42.5

Manual Integrations
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#16

Acetone

Concen: 93.899 ug/l

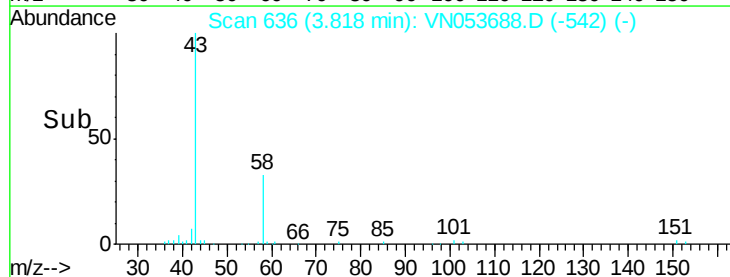
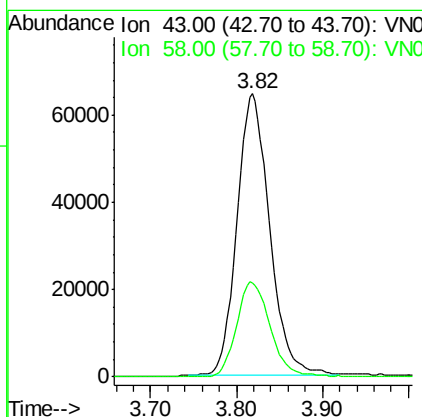
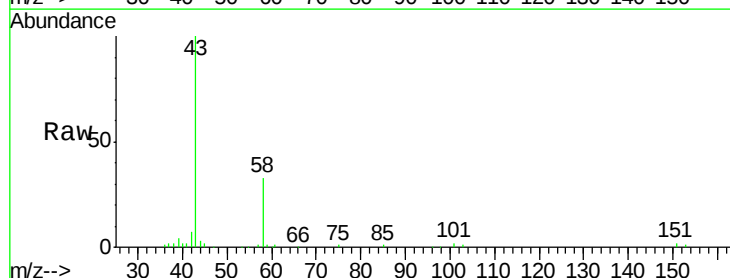
RT: 3.82 min Scan# 636

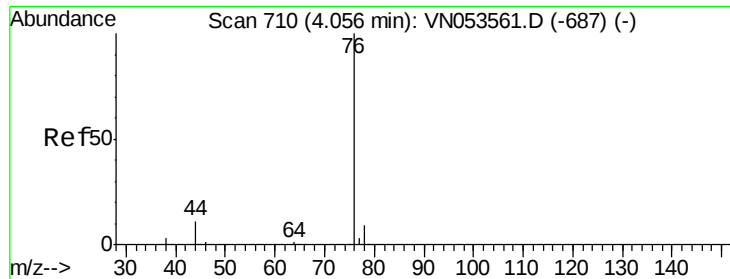
Delta R.T. 0.00 min

Lab File: VN053688.D

Acq: 8 Feb 2019 18:12

Tgt Ion:	43	Resp:	170880
Ion	Ratio	Lower	Upper
43	100		
58	33.2	27.1	40.7





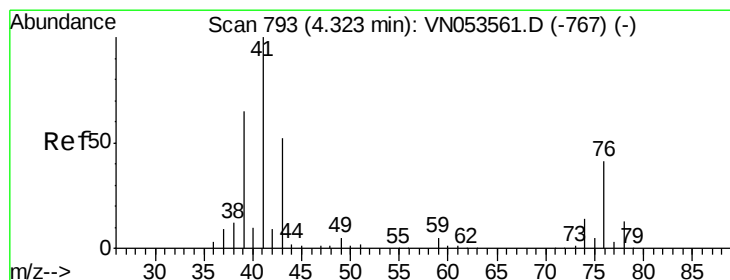
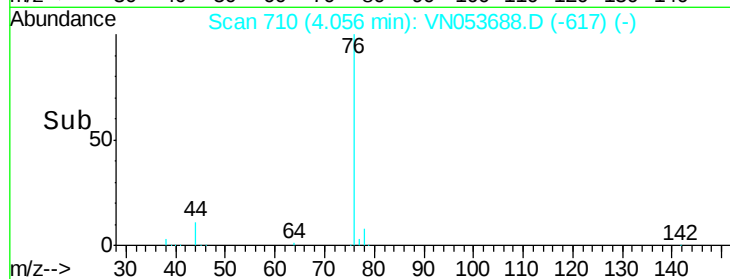
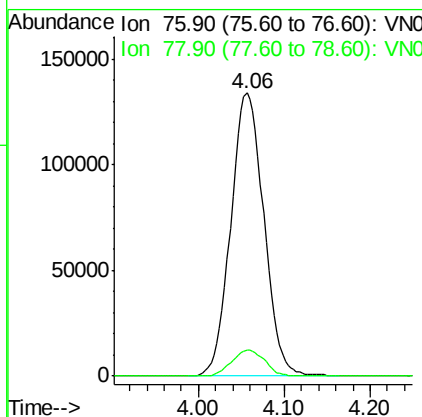
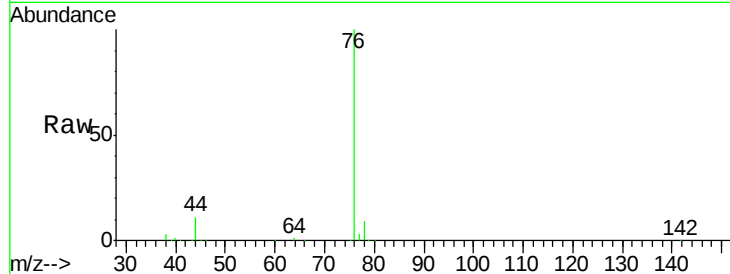
#17
Carbon Disulfide
Concen: 17.580 ug/l
RT: 4.06 min Scan# 710
Delta R.T. 0.00 min
Lab File: VN053688.D
Acq: 8 Feb 2019 18:12

Instrument :
MSVOA_N
ClientSampleId :
VN0208WBSD01

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.3	10.9

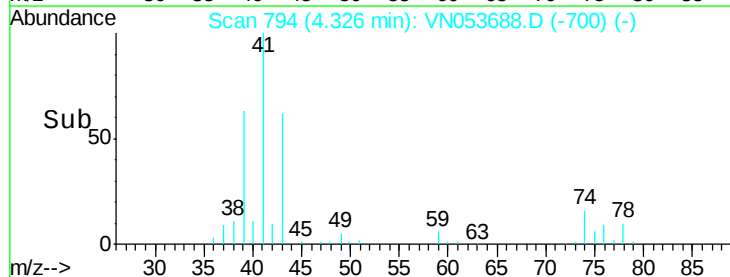
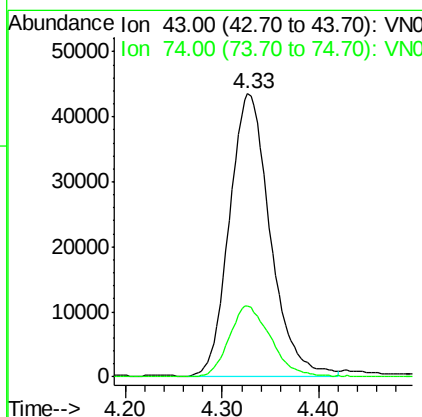
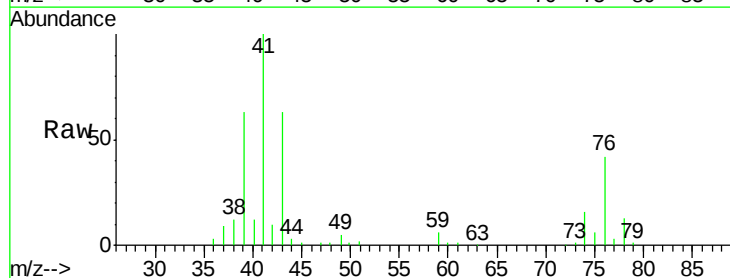
Manual Integrations
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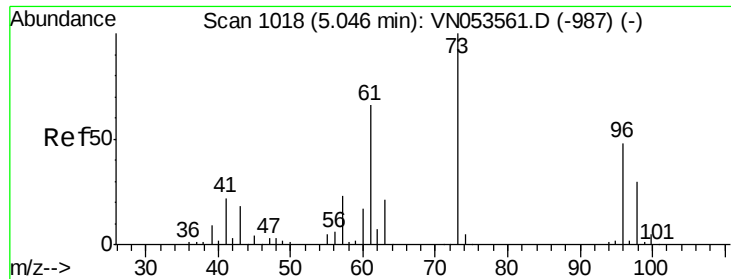
MMDadoda
2/11/2019 9:49:55 AM



#18
Methyl Acetate
Concen: 23.495 ug/l
RT: 4.33 min Scan# 794
Delta R.T. 0.00 min
Lab File: VN053688.D
Acq: 8 Feb 2019 18:12

Tgt Ion	Ratio	Lower	Upper
43	100		
74	25.8	19.4	29.2





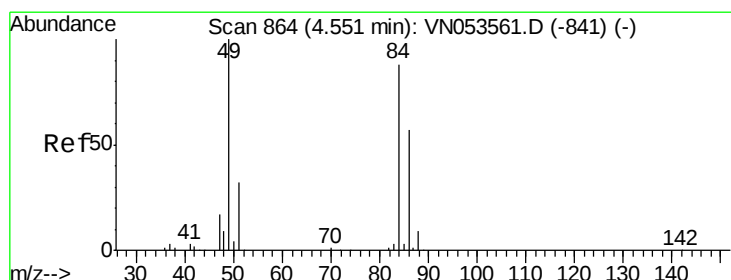
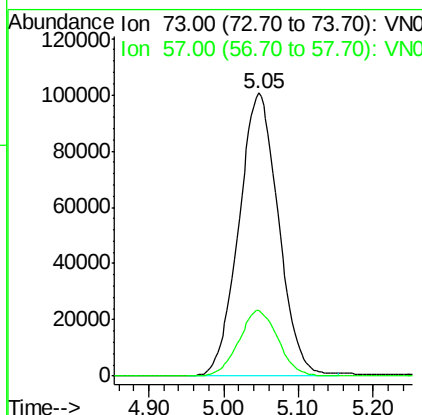
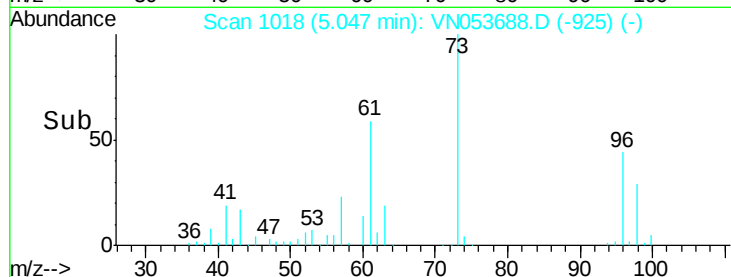
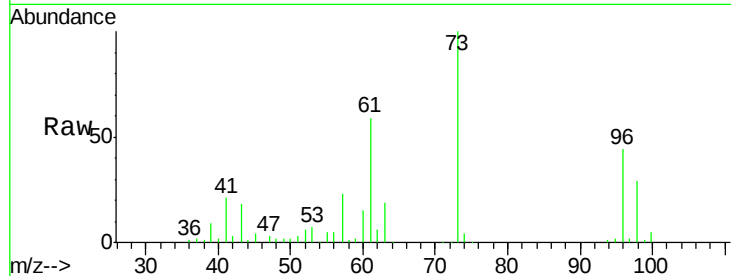
#19
Methvl tert-butvl Ether
Concen: 22.359 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VN053688.D
Acq: 8 Feb 2019 18:12

Instrument :
MSVOA_N
ClientSampleId :
VN0208WBSD01

Tot Ion: 73 Resp: 371203
Ion Ratio Lower Upper
73 100
57 23.1 18.3 27.5

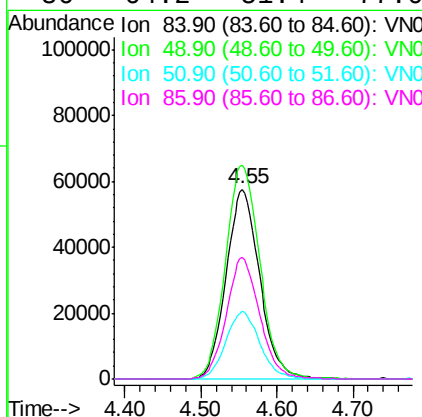
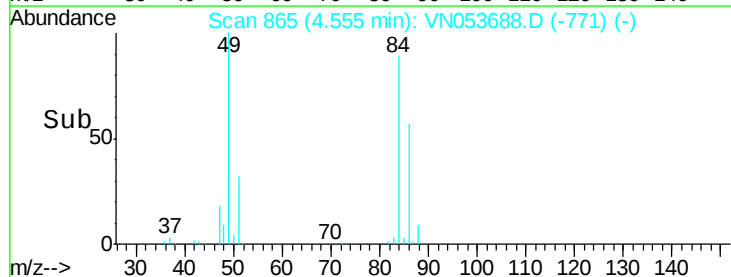
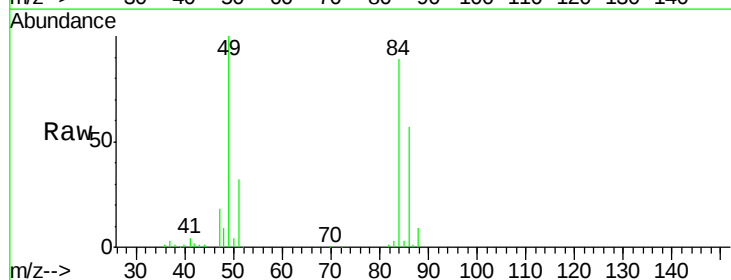
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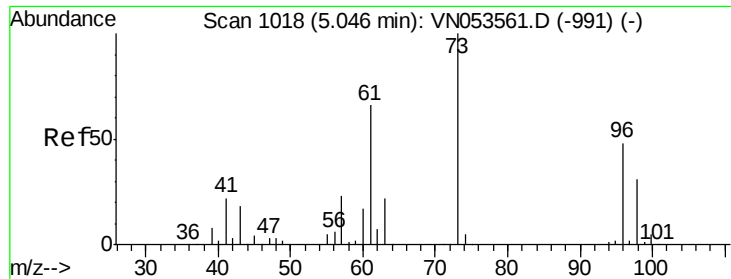
MMDadoda
2/11/2019 9:49:55 AM



#20
Methylene Chloride
Concen: 23.199 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN053688.D
Acq: 8 Feb 2019 18:12

Tgt Ion: 84 Resp: 177124
Ion Ratio Lower Upper
84 100
49 112.4 94.3 141.5
51 35.7 29.4 44.2
86 64.2 51.4 77.0





#21

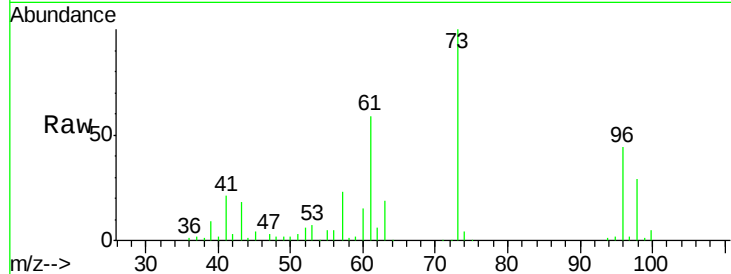
trans-1,2-Dichloroethene
Concen: 19.753 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VN053688.D
Acq: 8 Feb 2019 18:12

Instrument :
MSVOA_N
ClientSampleId :
VN0208WBSD01

Tot Ion	Ratio	Lower	Upper
96	100		
61	133.8	110.1	165.1
98	64.7	50.0	75.0

Manual Integrations
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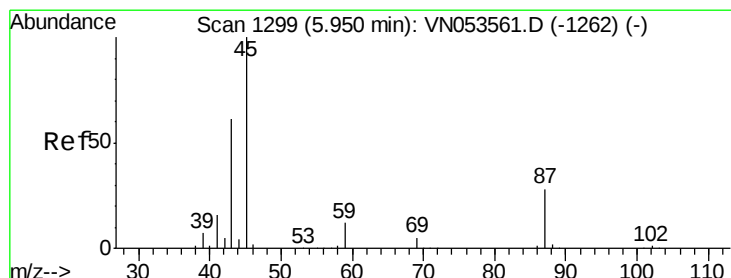
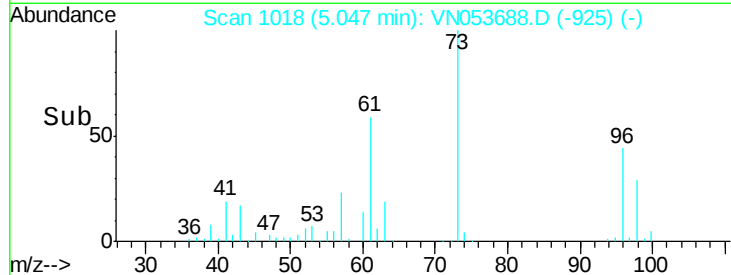
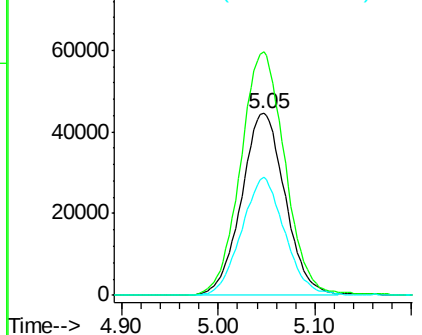


Abundance

Ion 95.90 (95.60 to 96.60): VNO

Ion 60.90 (60.60 to 61.60): VNO

Ion 97.90 (97.60 to 98.60): VNO



#22

Diisopropyl ether
Concen: 21.504 ug/l
RT: 5.95 min Scan# 1300
Delta R.T. 0.00 min
Lab File: VN053688.D
Acq: 8 Feb 2019 18:12

Tgt Ion	Ratio	Lower	Upper
45	100		
43	62.5	44.2	66.4
87	29.1	22.7	34.1
59	12.1	9.4	14.2

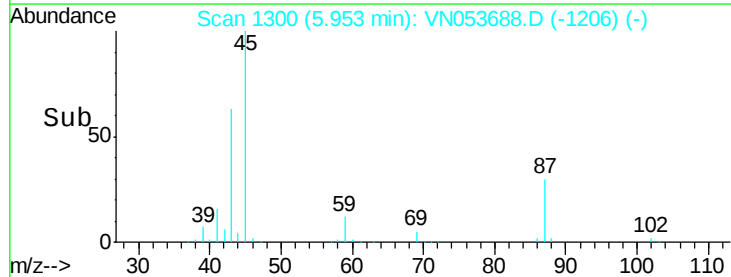
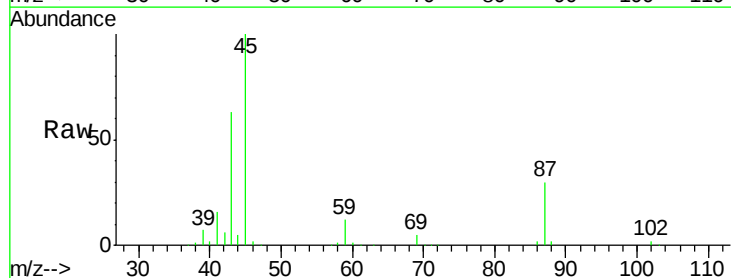
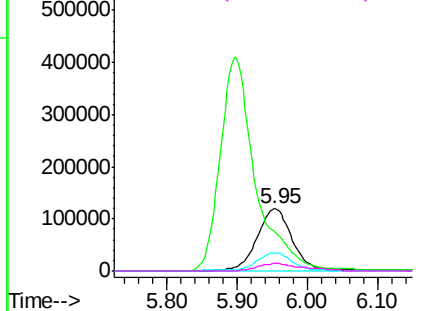
Abundance

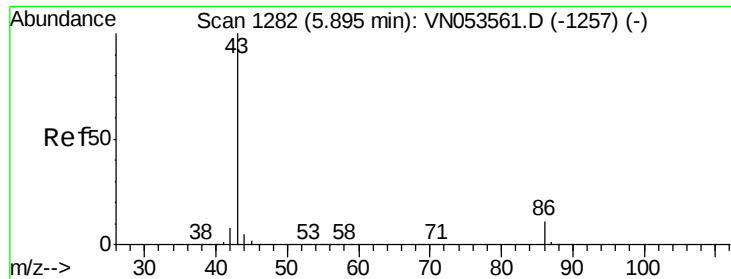
Ion 45.00 (44.70 to 45.70): VNO

Ion 43.00 (42.70 to 43.70): VNO

Ion 87.00 (86.70 to 87.70): VNO

Ion 59.00 (58.70 to 59.70): VNO





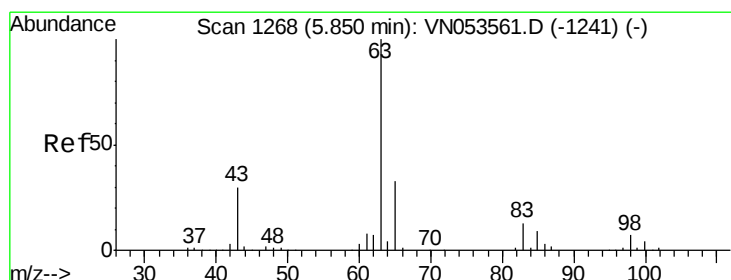
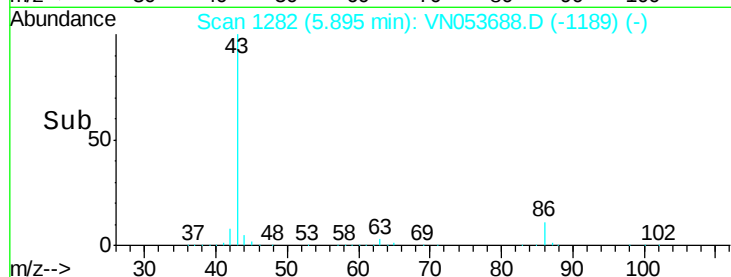
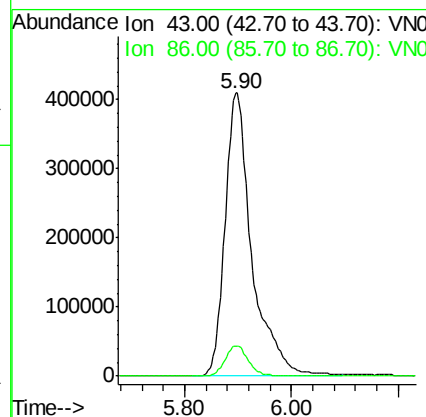
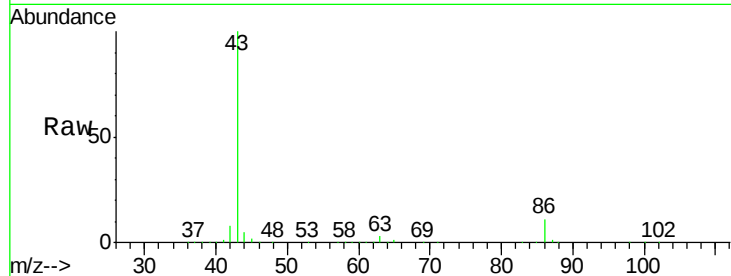
#23
 Vinyl Acetate
 Concen: 107.506 ug/l
 RT: 5.90 min Scan# 1282
 Delta R.T. 0.00 min
 Lab File: VN053688.D
 Acq: 8 Feb 2019 18:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0208WBSD01

Tot Ion: 43 Resp: 1436937
 Ion Ratio Lower Upper
 43 100
 86 10.8 8.4 12.6

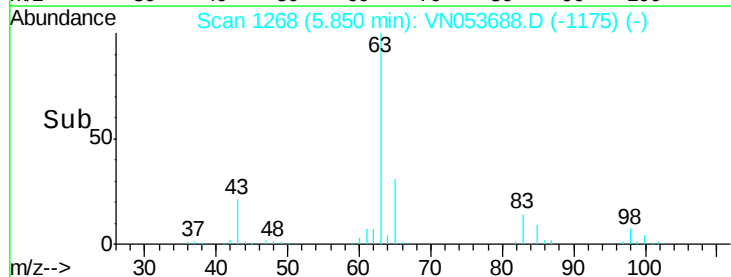
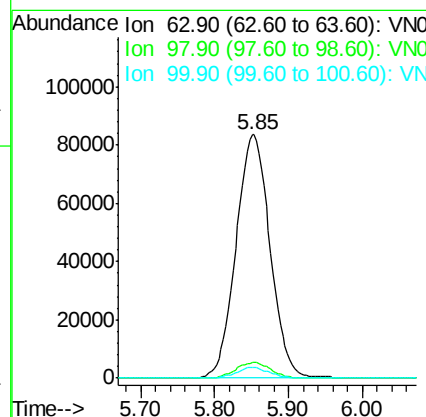
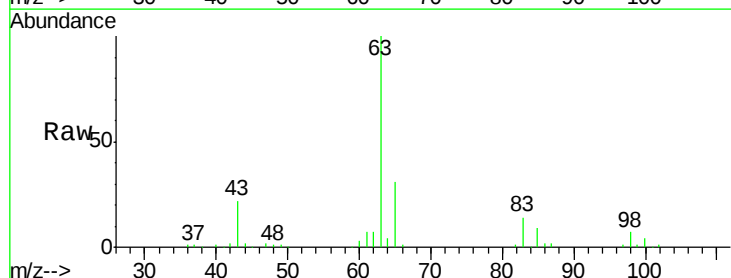
Manual Integrations
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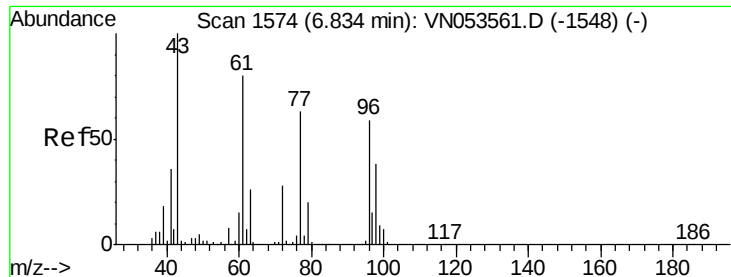
MMDadoda
 2/11/2019 9:49:55 AM



#24
 1,1-Dichloroethane
 Concen: 20.848 ug/l
 RT: 5.85 min Scan# 1268
 Delta R.T. 0.00 min
 Lab File: VN053688.D
 Acq: 8 Feb 2019 18:12

Tgt Ion: 63 Resp: 268667
 Ion Ratio Lower Upper
 63 100
 98 6.6 3.3 9.9
 100 4.5 2.1 6.5





#25

2-Butanone

Concen: 104.446 ug/l

RT: 6.84 min Scan# 1575

Delta R.T. 0.00 min

Lab File: VN053688.D

Acq: 8 Feb 2019 18:12

Instrument :

MSVOA_N

ClientSampleId :

VN0208WBSD01

Tot Ion: 43 Resp: 271088

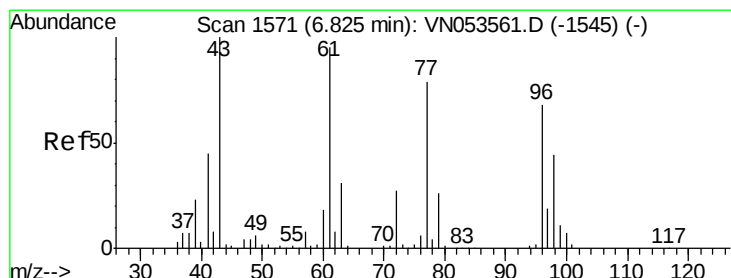
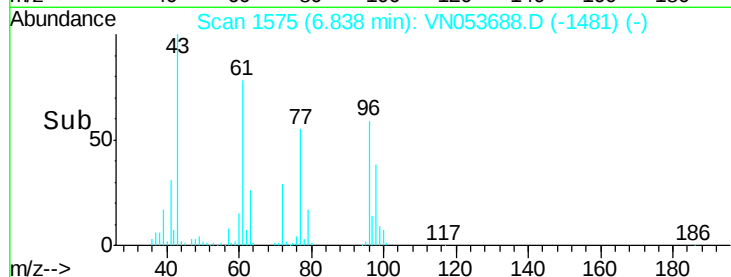
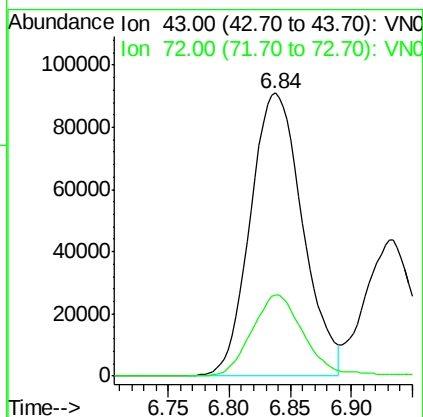
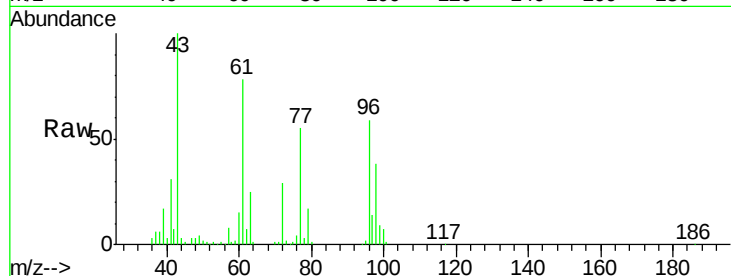
Ion Ratio Lower Upper

43 100

72 28.7 22.0 33.0

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#26

2,2-Dichloropropane

Concen: 18.263 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. 0.00 min

Lab File: VN053688.D

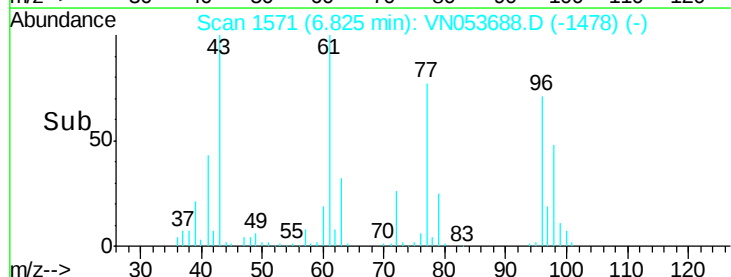
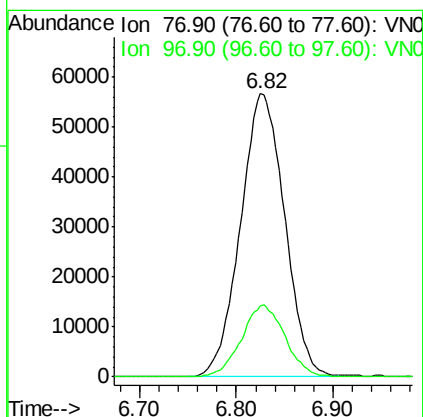
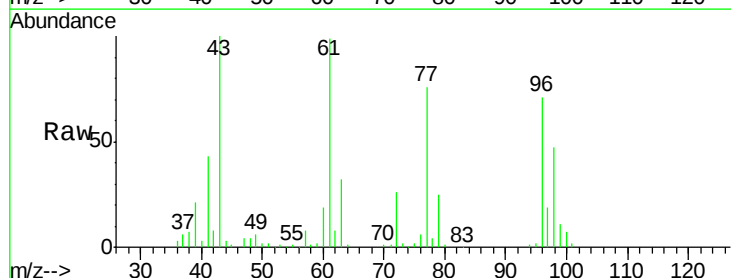
Acq: 8 Feb 2019 18:12

Tgt Ion: 77 Resp: 179667

Ion Ratio Lower Upper

77 100

97 25.1 12.2 36.6





#27

cis-1,2-Dichloroethene

Concen: 20.774 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VN053688.D

Acq: 8 Feb 2019 18:12

Instrument :

MSVOA_N

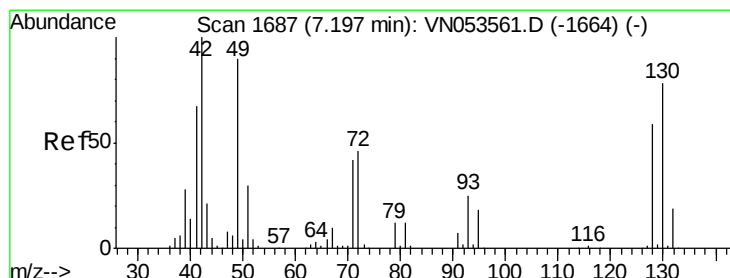
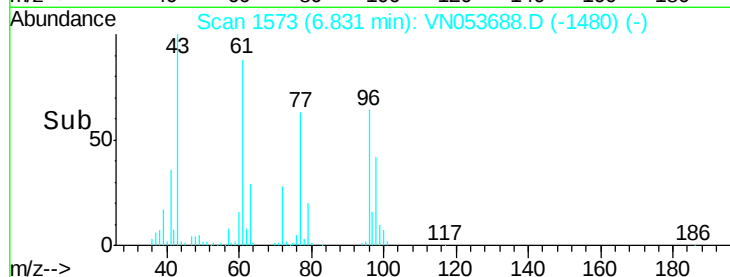
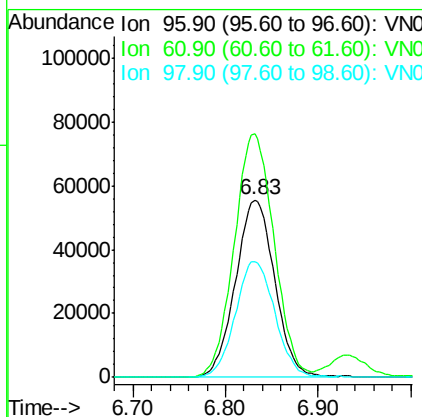
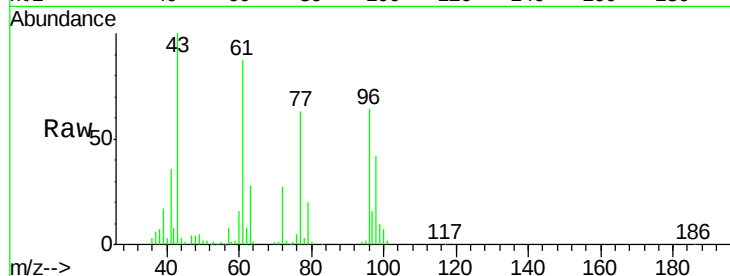
ClientSampleId :

VN0208WBSD01

Tot Ion:	96	Resp:	163213
Ion Ratio	Lower	Upper	
96	100		
61	139.2	0.0	283.8
98	65.8	0.0	129.2

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#28

Bromochloromethane

Concen: 21.652 ug/l

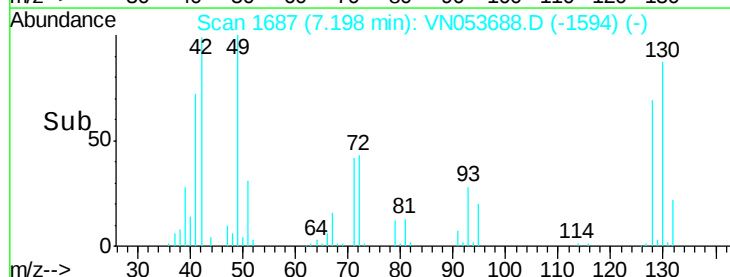
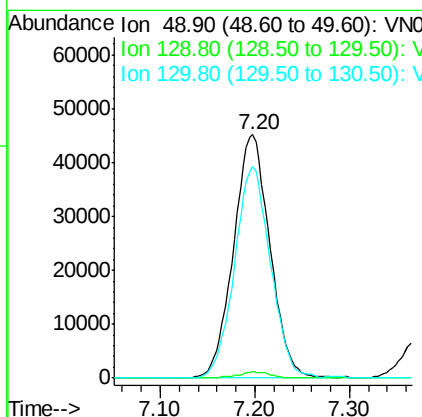
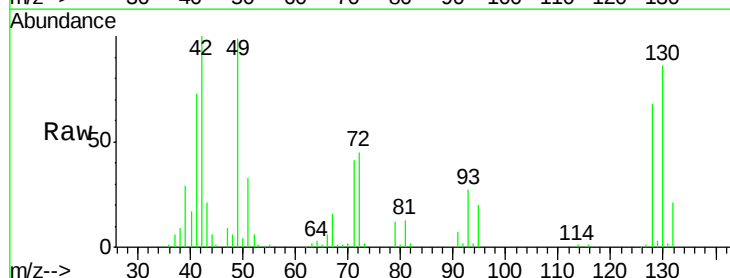
RT: 7.20 min Scan# 1687

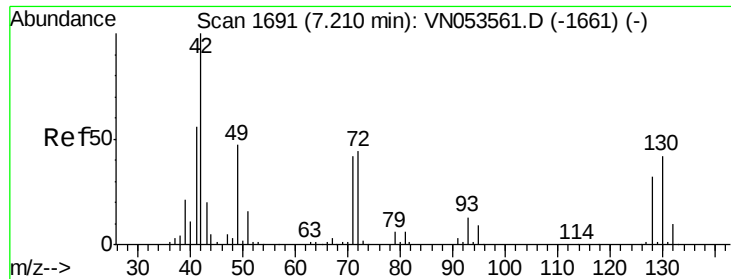
Delta R.T. 0.00 min

Lab File: VN053688.D

Acq: 8 Feb 2019 18:12

Tgt Ion:	49	Resp:	121090
Ion Ratio	Lower	Upper	
49	100		
129	2.1	0.0	4.0
130	86.0	66.3	99.5





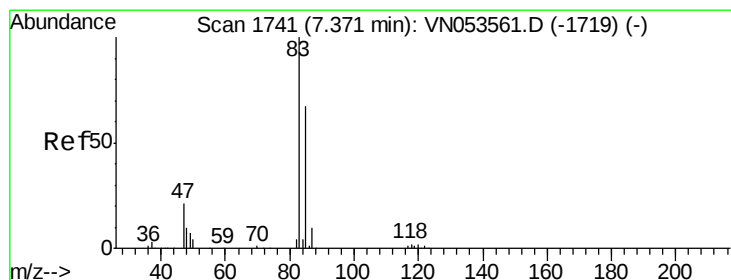
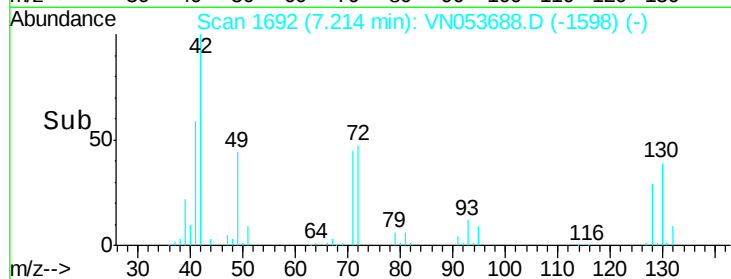
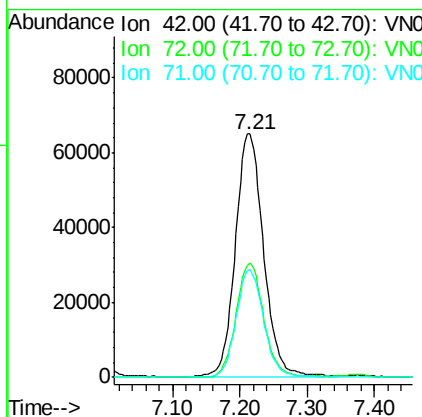
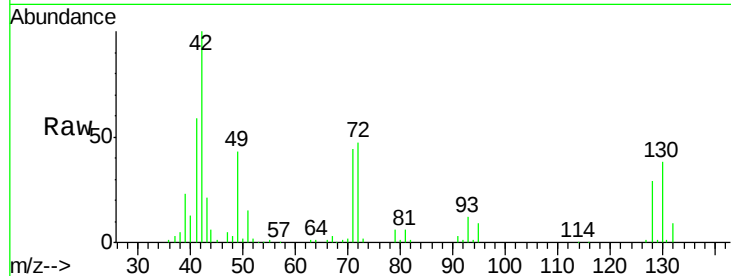
#29
Tetrahydrofuran
Concen: 114.581 ug/l
RT: 7.21 min Scan# 1692
Delta R.T. 0.00 min
Lab File: VN053688.D
Acq: 8 Feb 2019 18:12

Instrument :
MSVOA_N
ClientSampleId :
VN0208WBSD01

Tot Ion	Ratio	Lower	Upper
42	100		
72	45.6	35.2	52.8
71	42.5	33.0	49.4

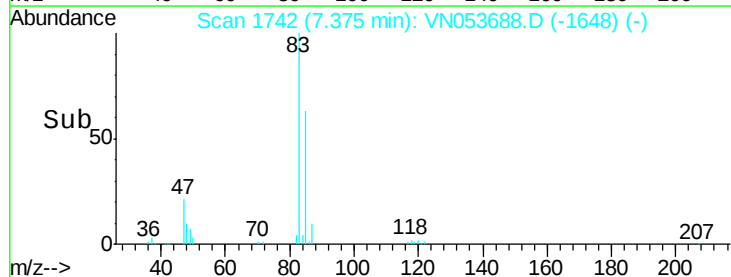
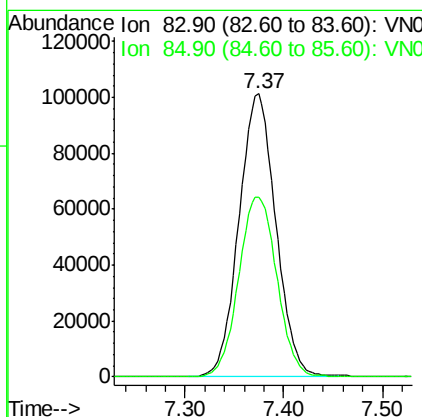
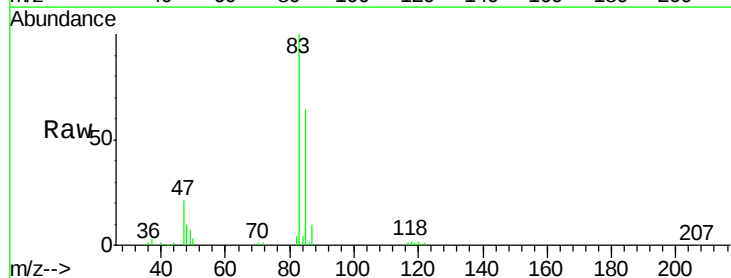
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#30
Chloroform
Concen: 20.550 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN053688.D
Acq: 8 Feb 2019 18:12

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.7	52.2	78.2





#31

Cyclohexane

Concen: 19.297 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN053688.D

Acq: 8 Feb 2019 18:12

Instrument :

MSVOA_N

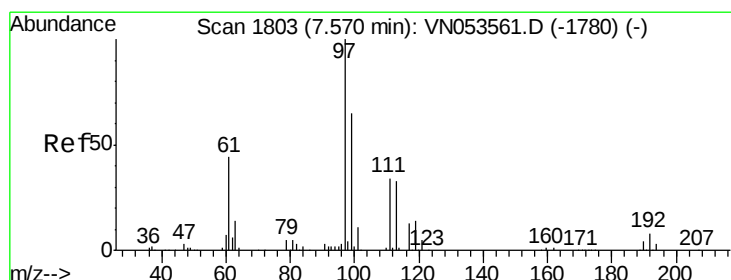
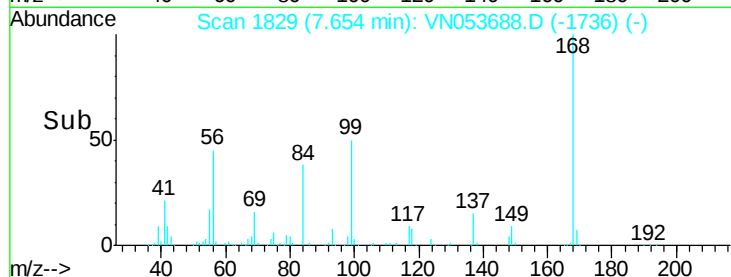
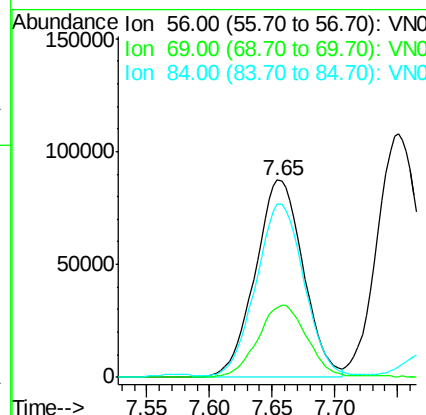
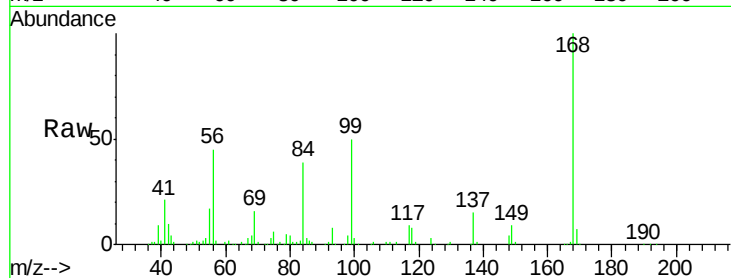
ClientSampled :

VN0208WBSD01

Tot Ion:	56	Resp:	232785
Ion Ratio	Lower	Upper	
56	100		
69	35.4	26.4	39.6
84	86.6	67.9	101.9

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 20.386 ug/l

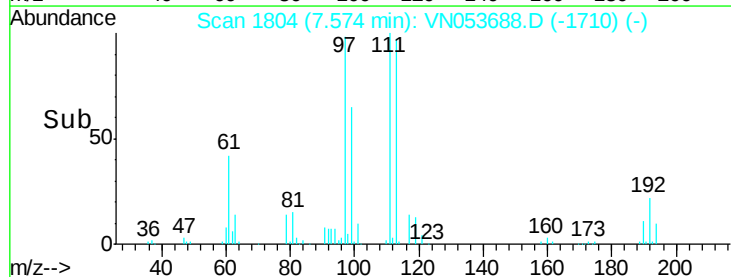
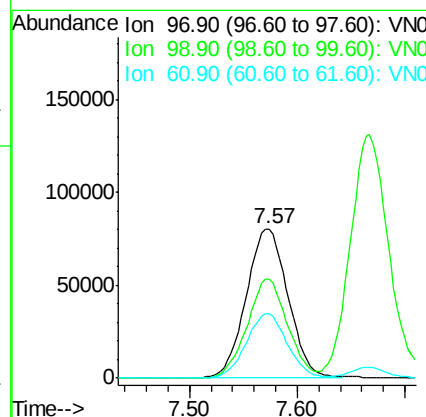
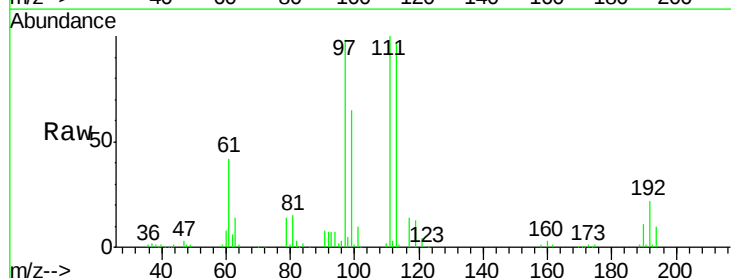
RT: 7.57 min Scan# 1804

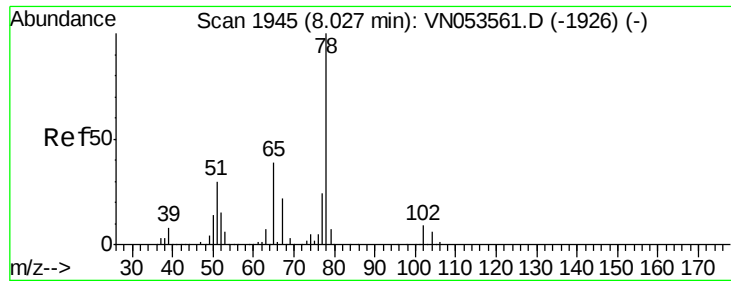
Delta R.T. 0.00 min

Lab File: VN053688.D

Acq: 8 Feb 2019 18:12

Tgt Ion:	97	Resp:	216731
Ion Ratio	Lower	Upper	
97	100		
99	64.0	52.0	78.0
61	42.0	34.4	51.6





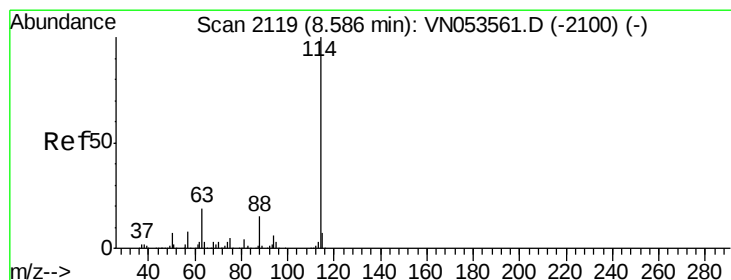
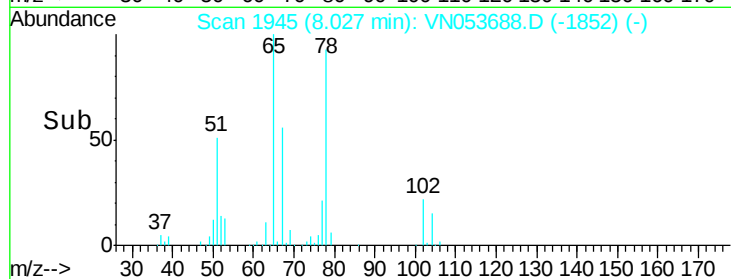
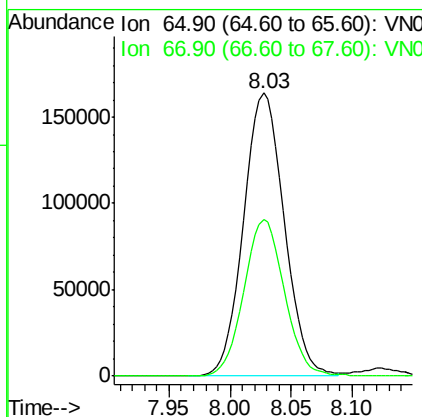
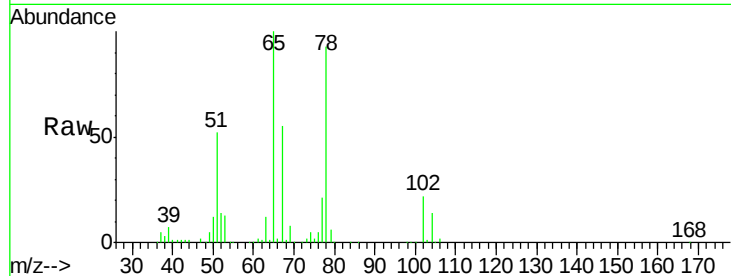
#33
 1,2-Dichloroethane-d4
 Concen: 53.370 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN053688.D
 Acq: 8 Feb 2019 18:12

Instrument :
 MSVOA_N
 ClientSampled :
 VN0208WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	55.3	0.0	111.2	

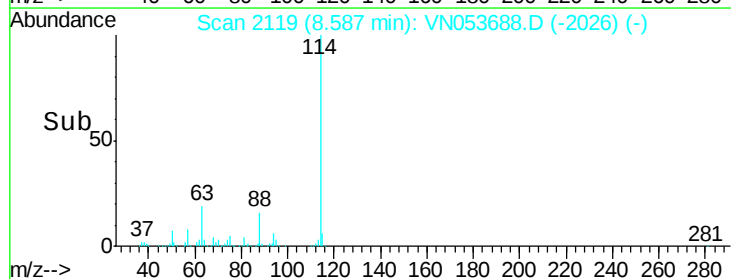
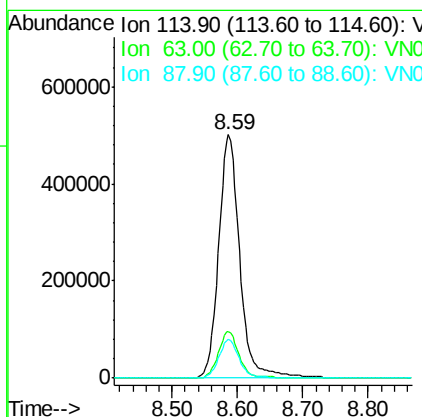
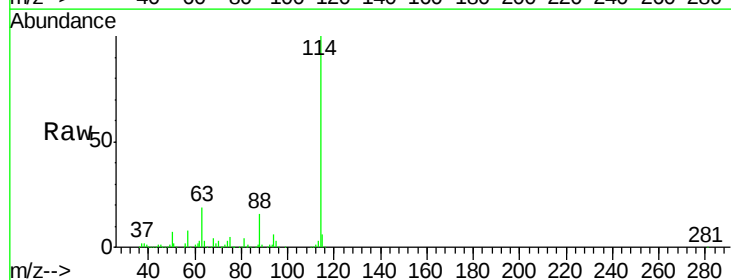
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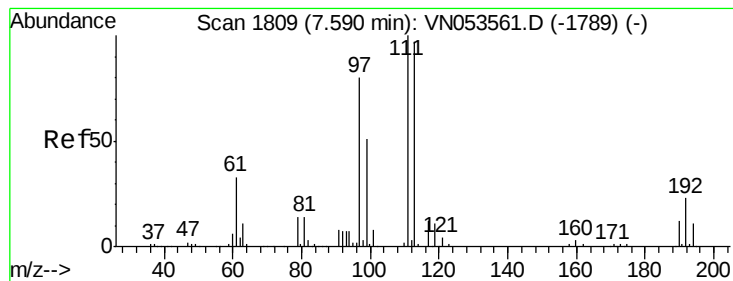
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 2/11/2019 9:49:55 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053688.D
 Acq: 8 Feb 2019 18:12

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	19.3	0.0	38.6	
88	15.8	0.0	30.4	





#35

Dibromofluoromethane

Concen: 50.907 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN053688.D

Acq: 8 Feb 2019 18:12

Instrument :

MSVOA_N

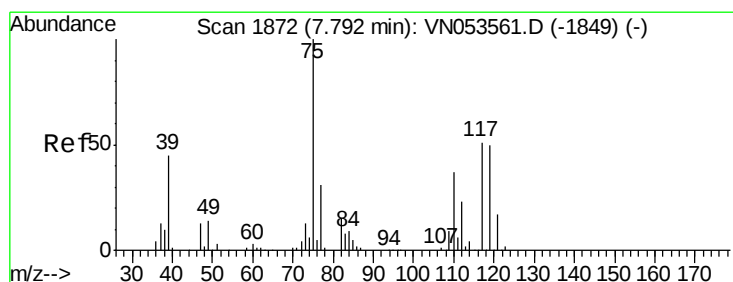
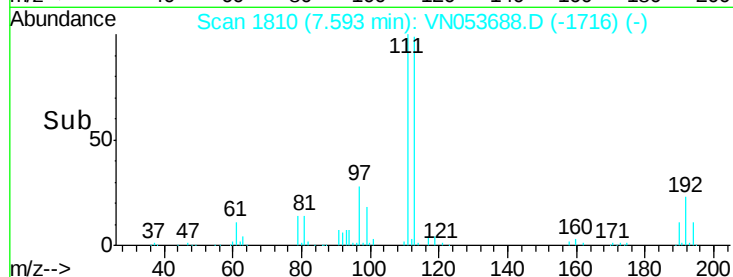
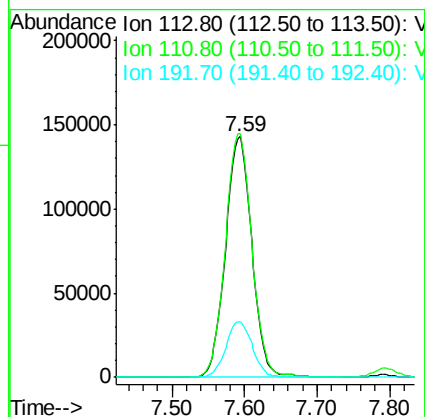
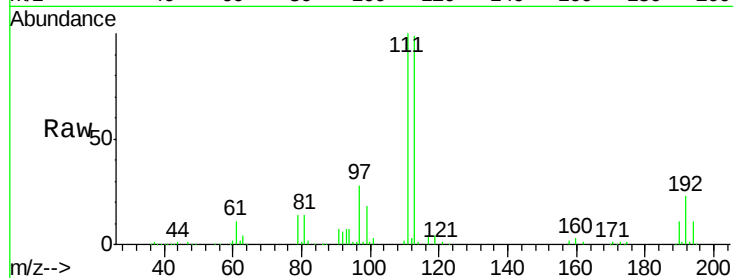
ClientSampleId :

VN0208WBSD01

Tot Ion:	113	Resp:	362445
Ion Ratio	Lower	Upper	
113	100		
111	101.9	81.1	121.7
192	23.3	18.2	27.2

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2/11/2019 9:49:55 AM



#36

1,1-Dichloropropene

Concen: 19.419 ug/l

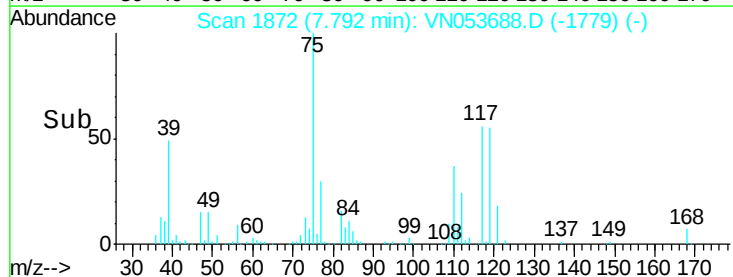
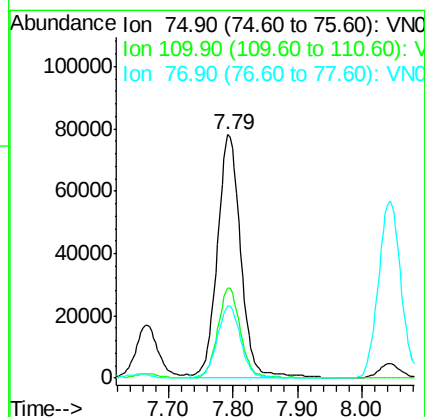
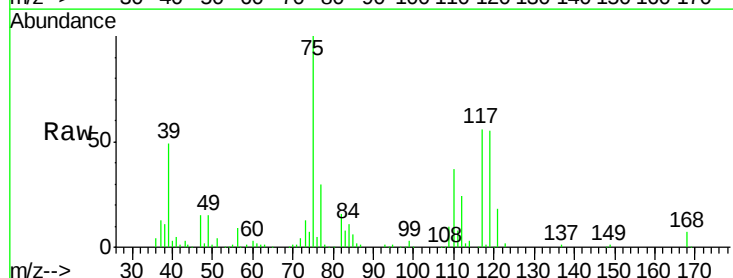
RT: 7.79 min Scan# 1872

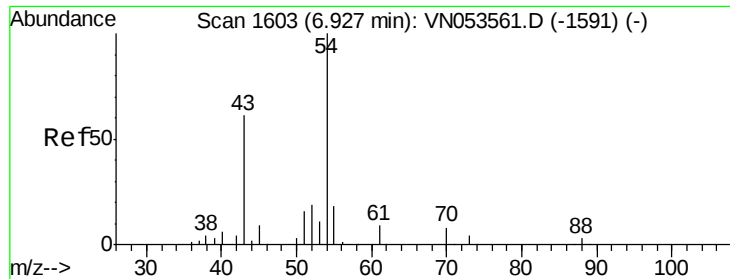
Delta R.T. 0.00 min

Lab File: VN053688.D

Acq: 8 Feb 2019 18:12

Tgt Ion:	75	Resp:	197242
Ion Ratio	Lower	Upper	
75	100		
110	35.8	18.1	54.3
77	29.5	25.1	37.7





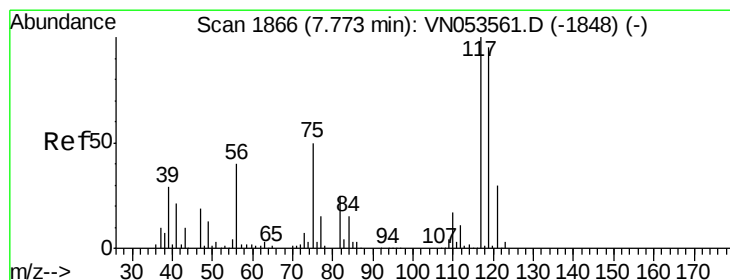
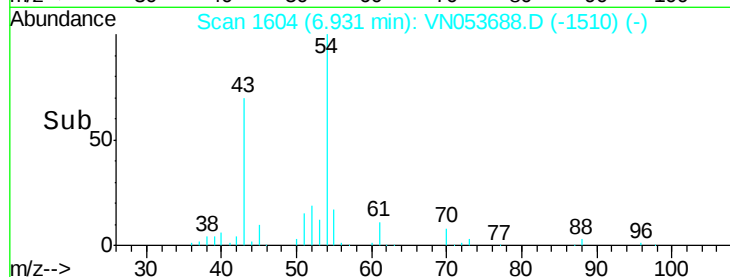
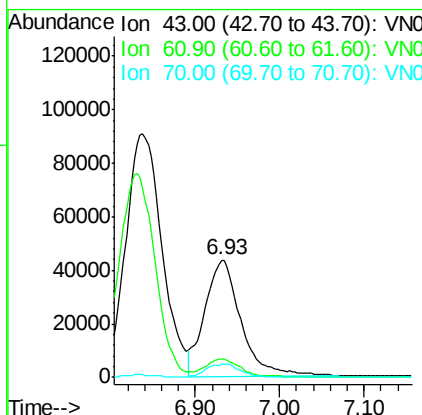
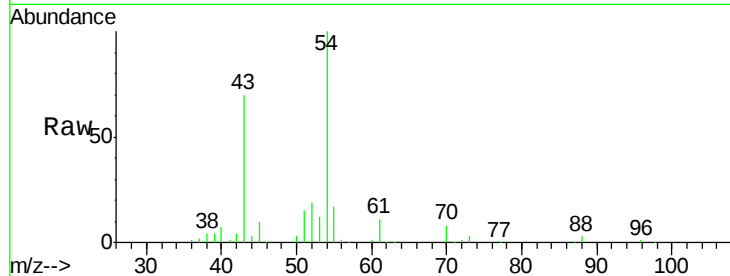
#37
Ethyl Acetate
Concen: 22.695 ug/l
RT: 6.93 min Scan# 1604
Delta R.T. 0.00 min
Lab File: VN053688.D
Acq: 8 Feb 2019 18:12

Instrument :
MSVOA_N
ClientSampled :
VN0208WBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.7	11.8	17.6
70	11.0	8.6	12.8

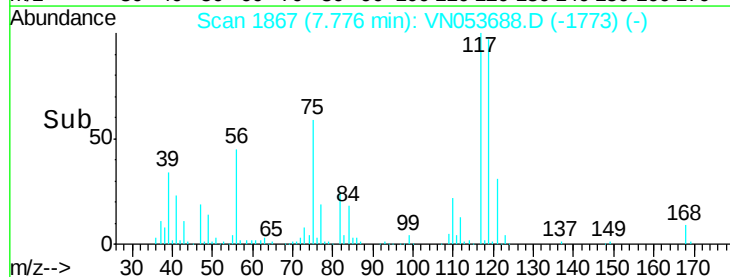
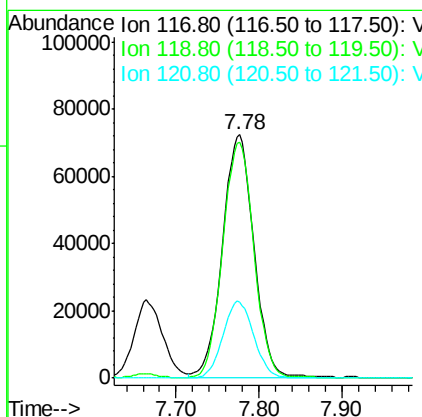
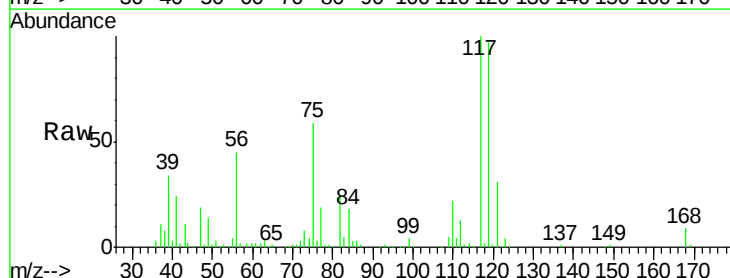
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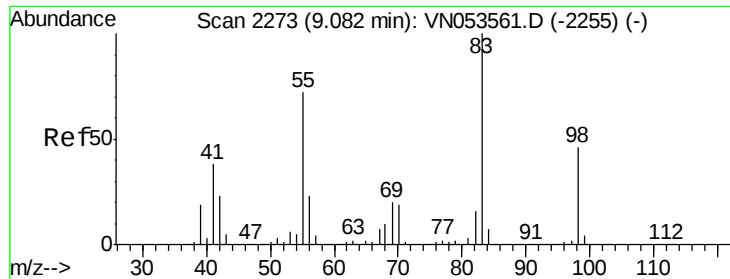
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#38
Carbon Tetrachloride
Concen: 18.599 ug/l
RT: 7.78 min Scan# 1867
Delta R.T. 0.00 min
Lab File: VN053688.D
Acq: 8 Feb 2019 18:12

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.8	77.2	115.8
121	31.1	24.6	37.0





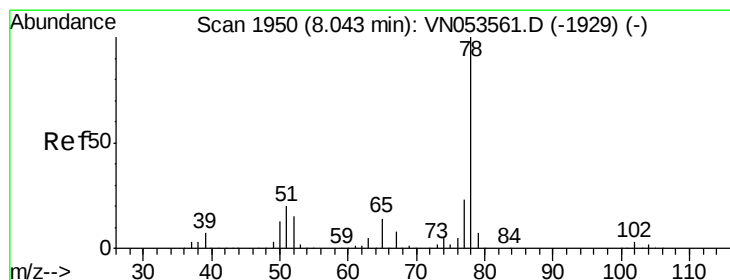
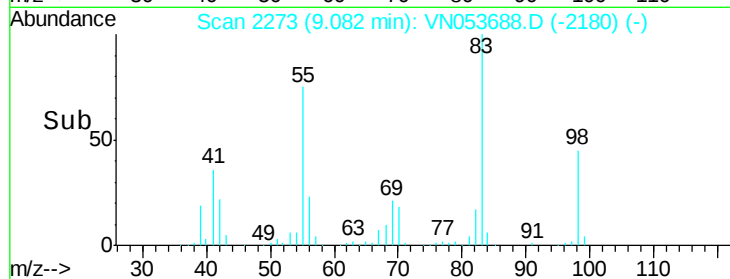
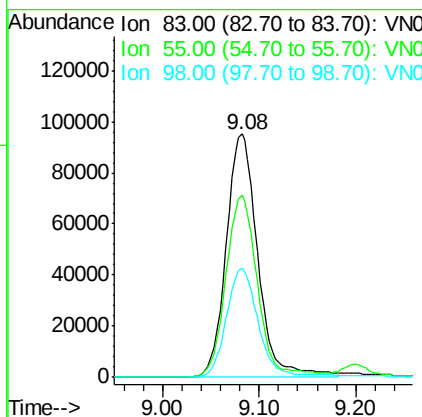
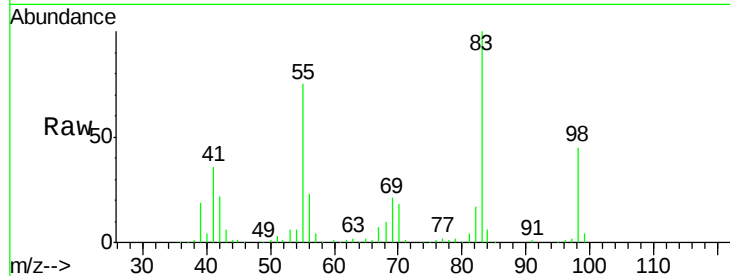
#39
Methvlcvclohexane
Concen: 17.901 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN053688.D
Acq: 8 Feb 2019 18:12

Instrument :
MSVOA_N
ClientSampleId :
VN0208WBSD01

Tot Ion	Ratio	Lower	Upper
83	100		
55	74.6	60.1	90.1
98	44.6	36.6	55.0

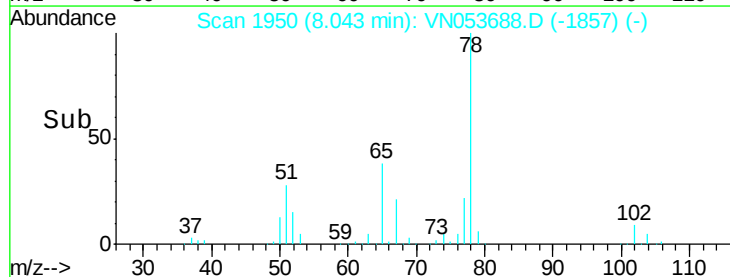
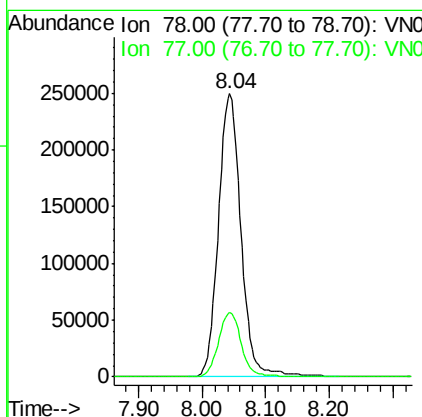
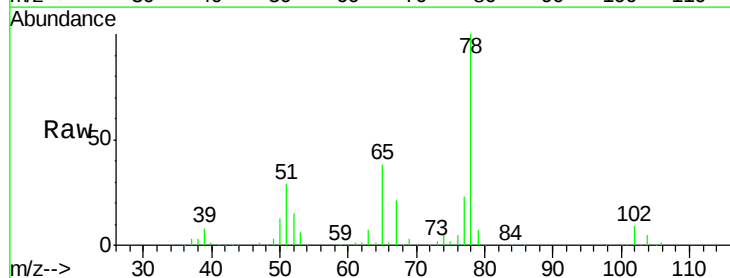
Manual Integrations
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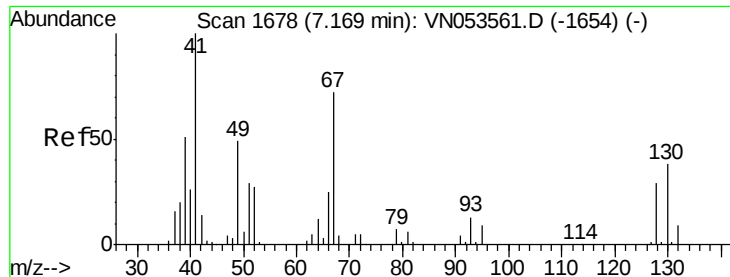
MMDadoda
2/11/2019 9:49:55 AM



#40
Benzene
Concen: 19.612 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN053688.D
Acq: 8 Feb 2019 18:12

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.7	18.8	28.2





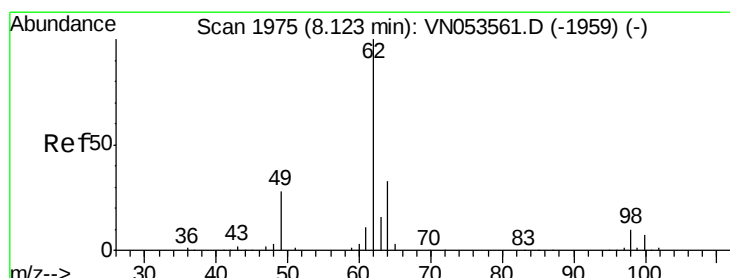
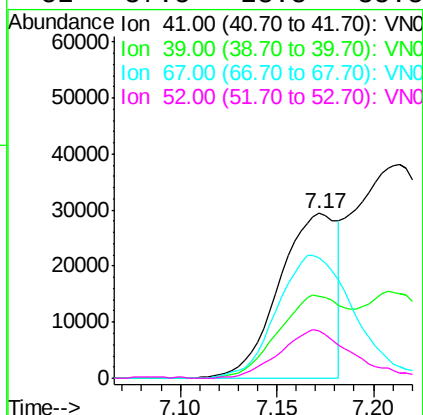
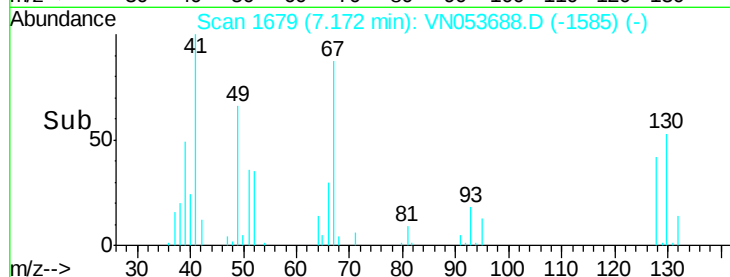
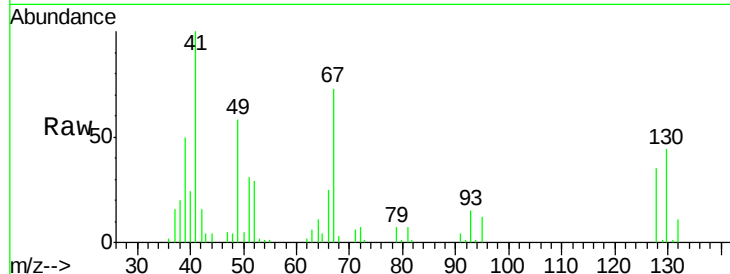
#41
Methacrylonitrile
Concen: 19.338 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. 0.00 min
Lab File: VN053688.D
Acq: 8 Feb 2019 18:12

Instrument :
MSVOA_N
ClientSampleId :
VN0208WBSD01

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	57.9	46.8	70.2	
67	99.5	63.0	94.6	
52	37.5	23.8	35.8	

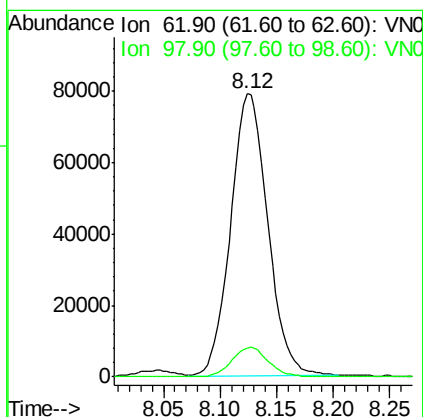
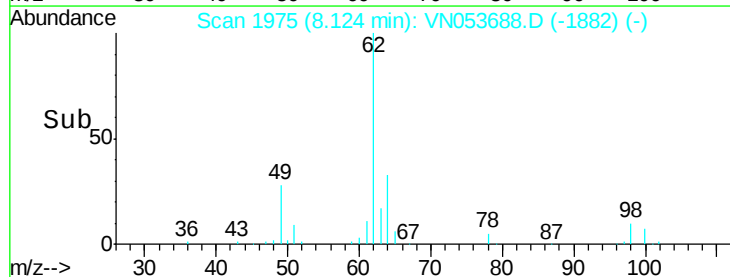
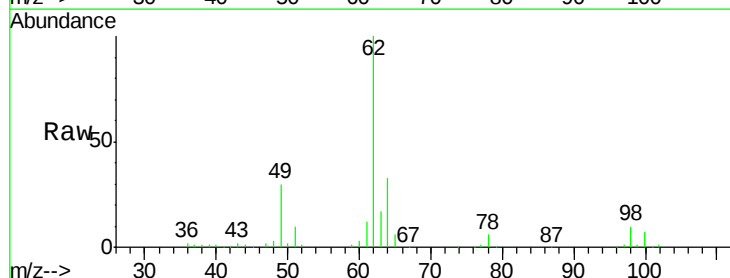
Manual Integrations
APPROVED

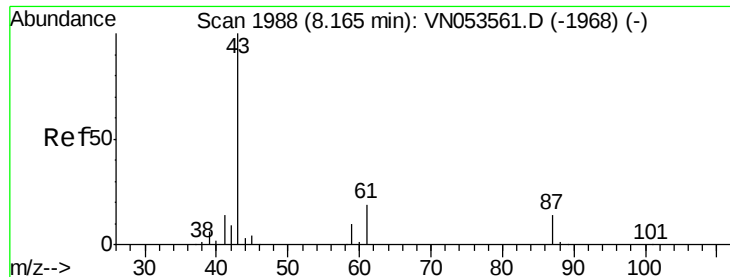
MMDadoda
2/11/2019 9:49:55 AM



#42
1,2-Dichloroethane
Concen: 19.406 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. 0.00 min
Lab File: VN053688.D
Acq: 8 Feb 2019 18:12

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	10.4	0.0	19.6	





#43

Isopropyl Acetate

Concen: 20.936 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN053688.D

Acq: 8 Feb 2019 18:12

Instrument :

MSVOA_N

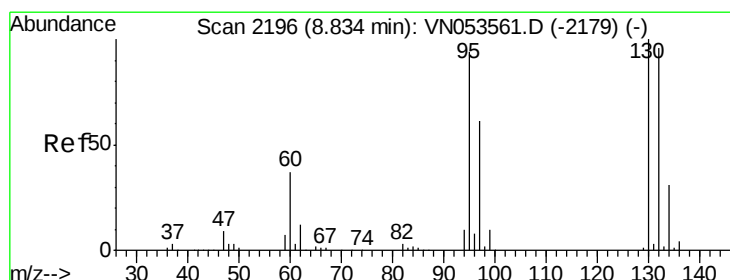
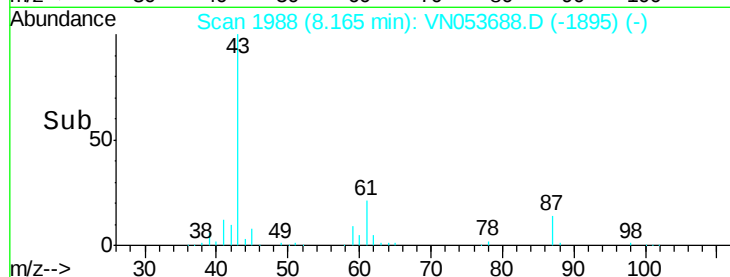
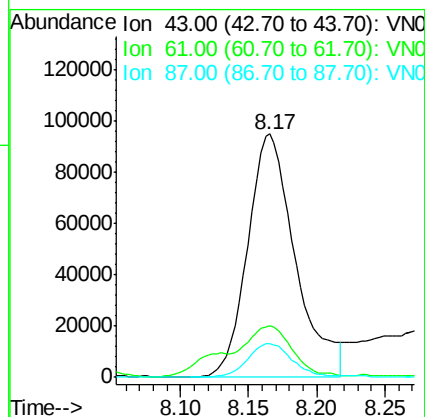
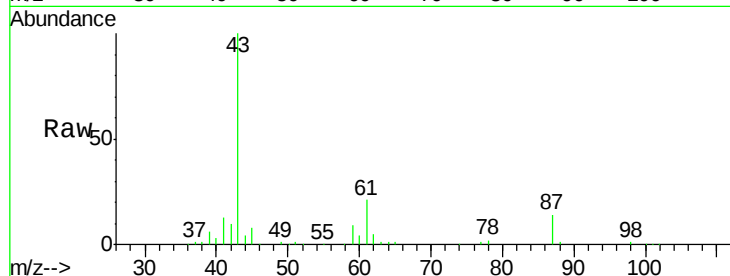
ClientSampleId :

VN0208WBSD01

Tot Ion:	43	Resp:	229363
Ion	Ratio	Lower	Upper
43	100		
61	28.1	23.9	35.9
87	12.9	11.0	16.6

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2/11/2019 9:49:55 AM



#44

Trichloroethene

Concen: 18.523 ug/l

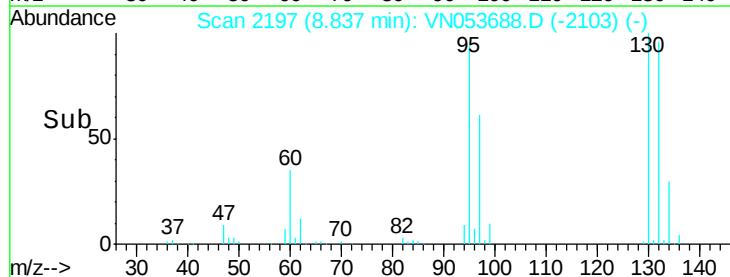
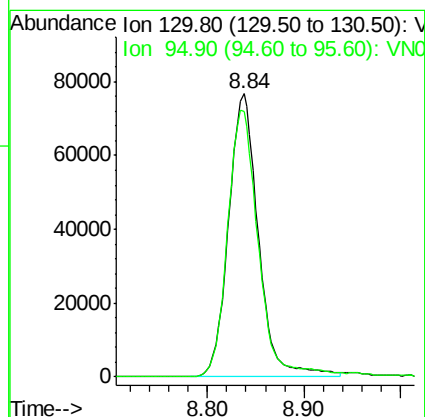
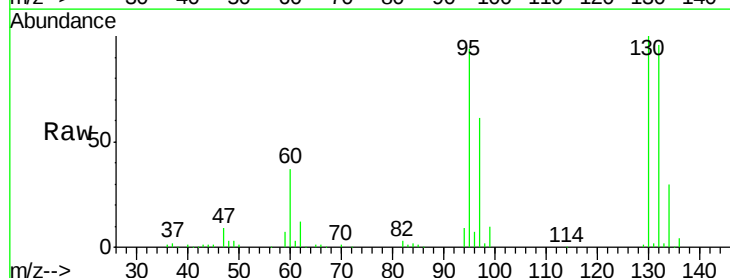
RT: 8.84 min Scan# 2197

Delta R.T. 0.00 min

Lab File: VN053688.D

Acq: 8 Feb 2019 18:12

Tgt Ion:	130	Resp:	165175
Ion	Ratio	Lower	Upper
130	100		
95	93.7	0.0	191.4





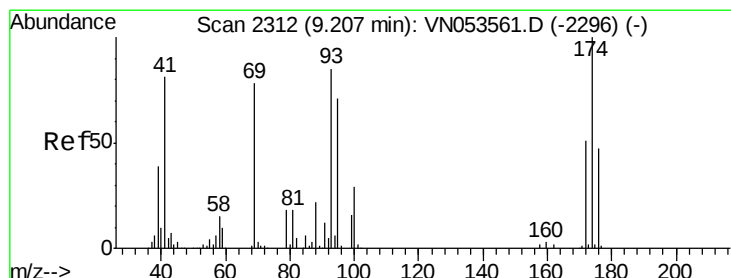
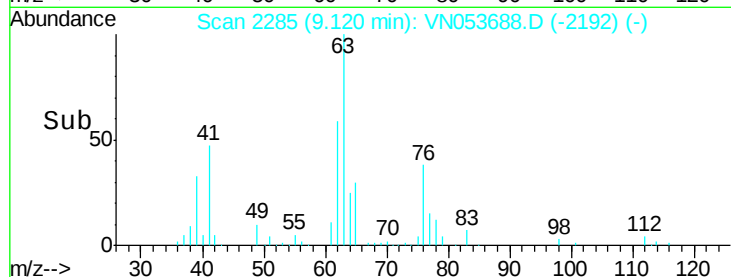
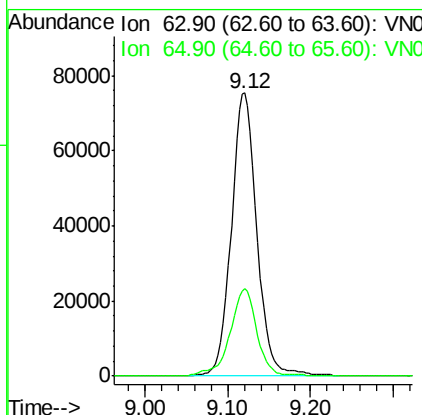
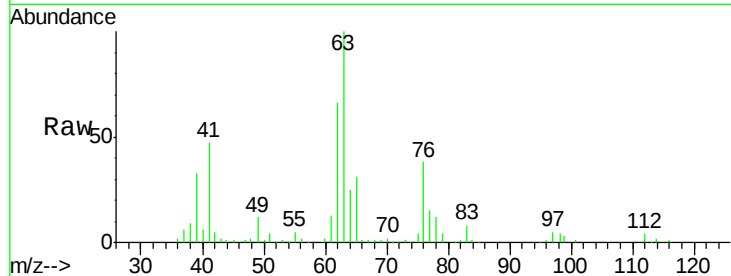
#45
 1,2-Dichloropropane
 Concen: 20.255 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN053688.D
 Acq: 8 Feb 2019 18:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0208WBSD01

Tot Ion: 63 Resp: 162267
 Ion Ratio Lower Upper
 63 100
 65 30.7 25.0 37.4

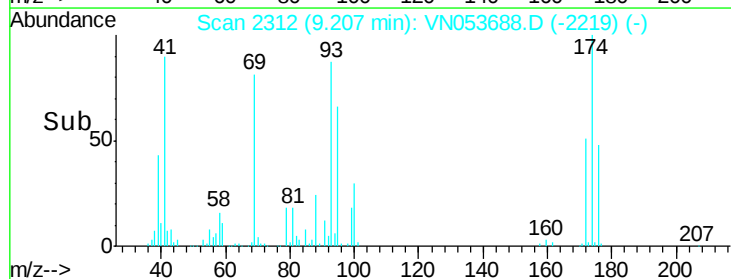
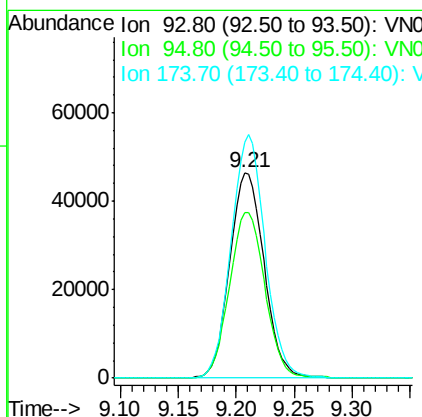
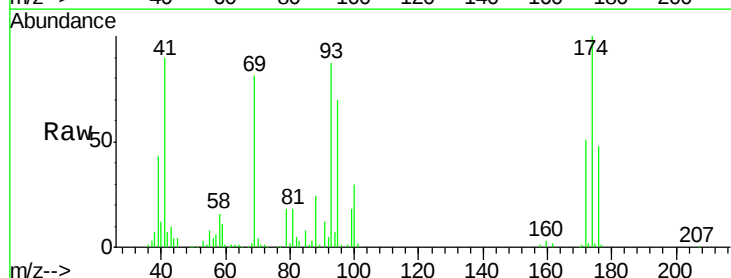
Manual Integrations
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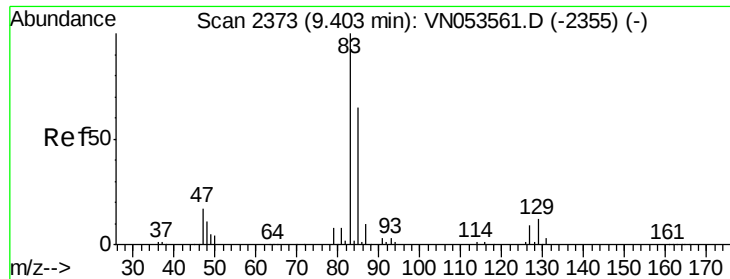
MMDadoda
 2/11/2019 9:49:55 AM



#46
 Dibromomethane
 Concen: 19.770 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. 0.00 min
 Lab File: VN053688.D
 Acq: 8 Feb 2019 18:12

Tgt Ion: 93 Resp: 95475
 Ion Ratio Lower Upper
 93 100
 95 83.3 67.3 100.9
 174 116.7 91.0 136.4





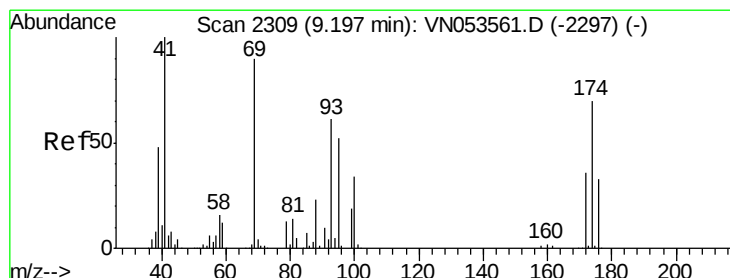
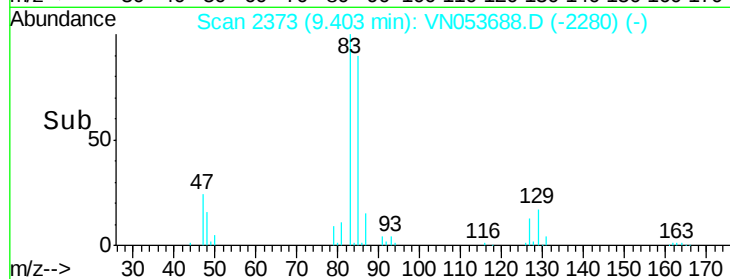
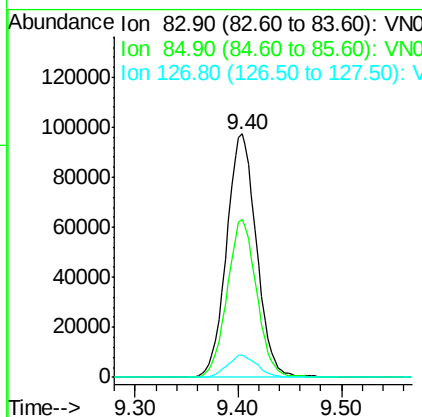
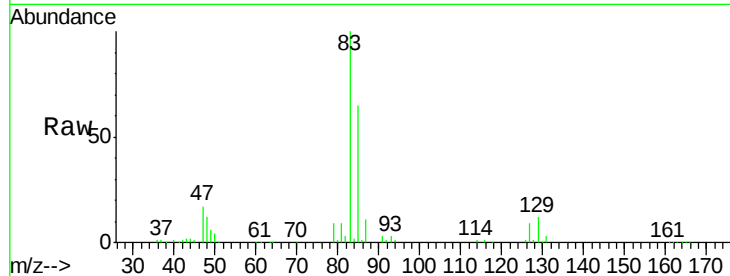
#47
Bromodichloromethane
Concen: 19.560 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. 0.00 min
Lab File: VN053688.D
Acq: 8 Feb 2019 18:12

Instrument :
MSVOA_N
ClientSampleId :
VN0208WBSD01

Tot Ion	83	Resp	196403
Ion Ratio	100	Lower	Upper
83	100		
85	65.0	51.0	76.6
127	9.2	7.0	10.6

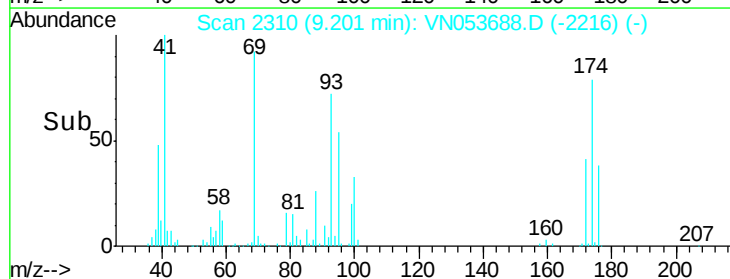
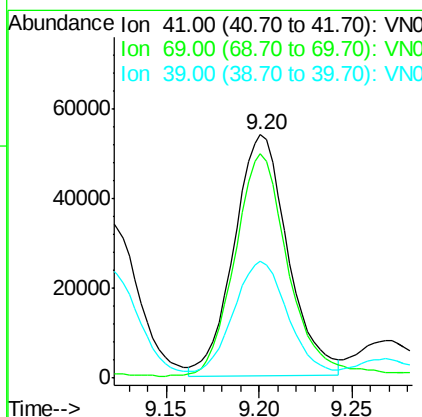
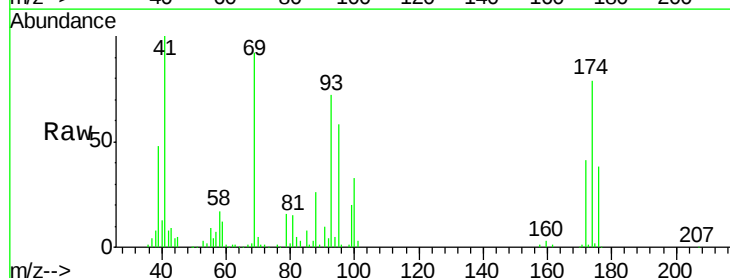
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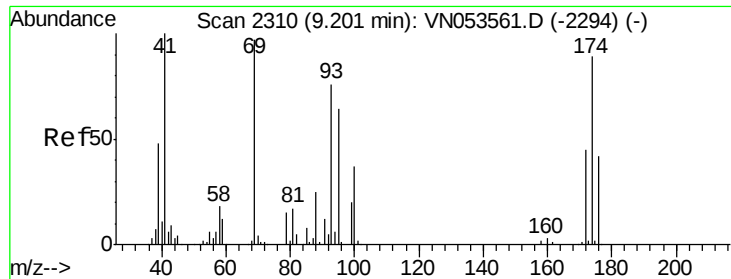
MMDadoda
2/11/2019 9:49:55 AM



#48
Methyl methacrylate
Concen: 20.840 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN053688.D
Acq: 8 Feb 2019 18:12

Tgt Ion	41	Resp	108982
Ion Ratio	100	Lower	Upper
41	100		
69	93.3	73.8	110.6
39	49.2	40.0	60.0





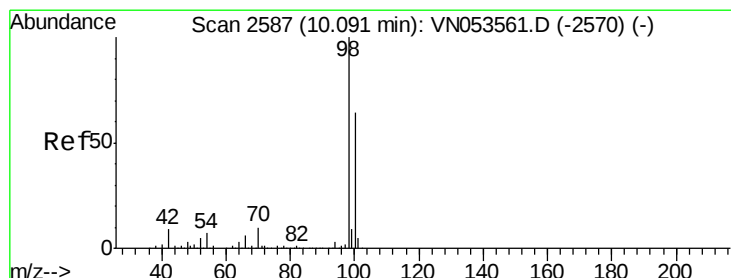
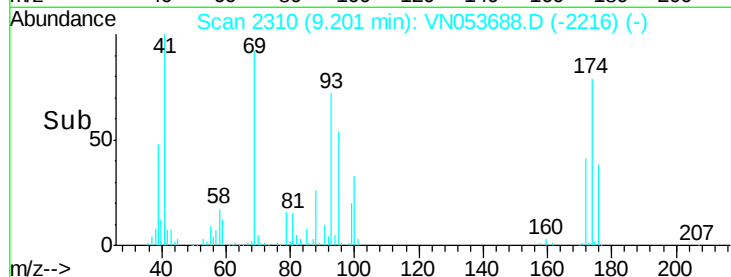
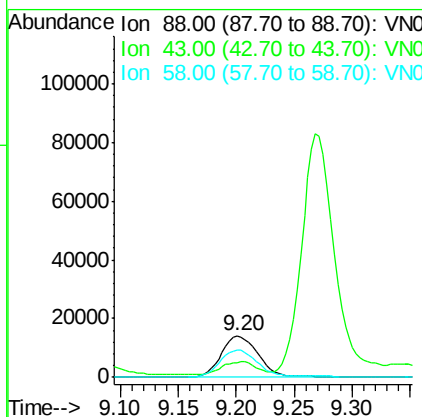
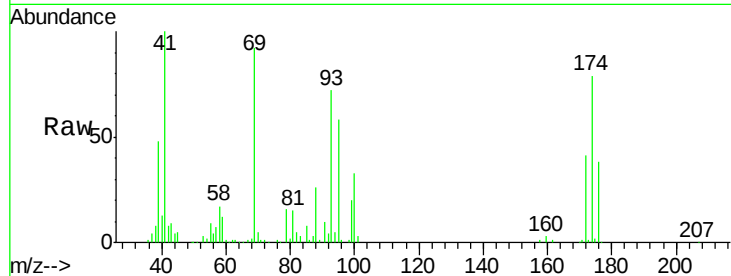
#49
1,4-Dioxane
Concen: 438.715 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN053688.D
Acq: 8 Feb 2019 18:12

Instrument :
MSVOA_N
ClientSampleId :
VN0208WBSD01

Tot Ion	88	Resp	31513
Ion	Ratio	Lower	Upper
88	100		
43	28.3	27.8	41.6
58	67.5	56.5	84.7

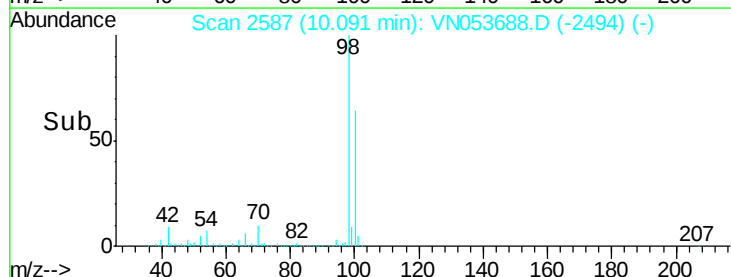
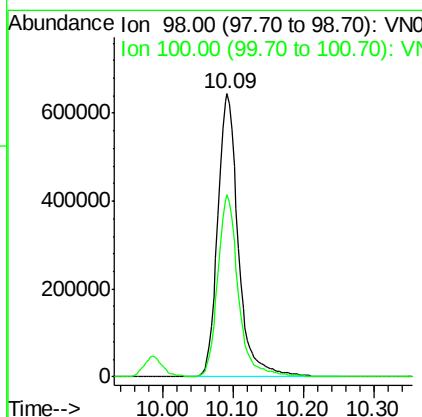
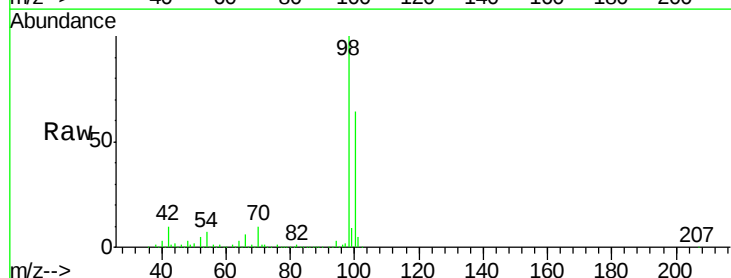
Manual Integrations
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2/11/2019 9:49:55 AM



#50
Toluene-d8
Concen: 49.112 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN053688.D
Acq: 8 Feb 2019 18:12

Tgt Ion	98	Resp	1312915
Ion	Ratio	Lower	Upper
98	100		
100	64.3	51.4	77.0





#51

4-Methyl-2-Pentanone

Concen: 108.788 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN053688.D

Acq: 8 Feb 2019 18:12

Instrument :

MSVOA_N

ClientSampleId :

VN0208WBSD01

Tot Ion: 43 Resp: 585658

Ion Ratio Lower Upper

43 100

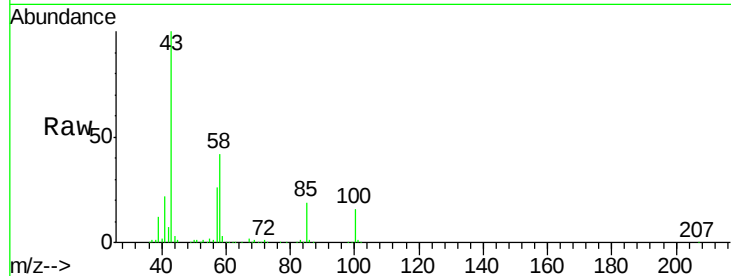
58 40.3 32.8 49.2

Manual Integrations

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MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

9.99

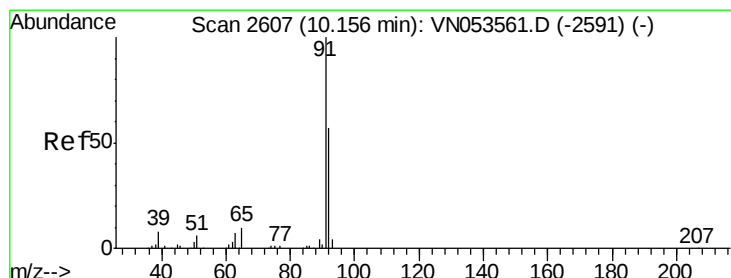
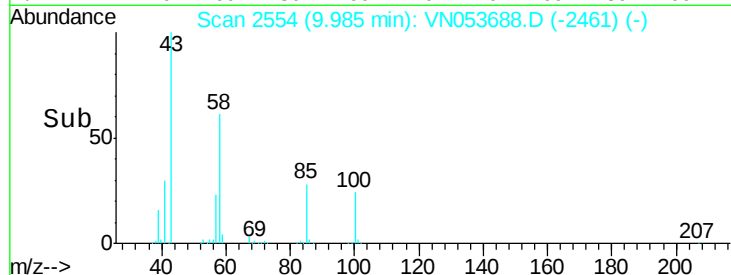
300000

200000

100000

0

Time-->



#52

Toluene

Concen: 19.637 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN053688.D

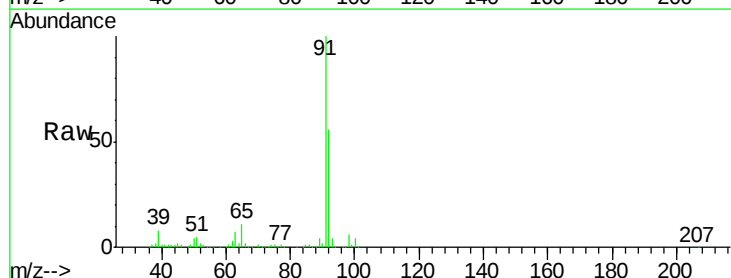
Acq: 8 Feb 2019 18:12

Tgt Ion: 92 Resp: 365043

Ion Ratio Lower Upper

92 100

91 173.2 139.9 209.9



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0

10.16

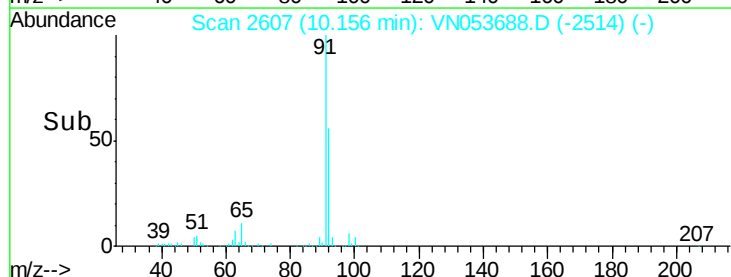
300000

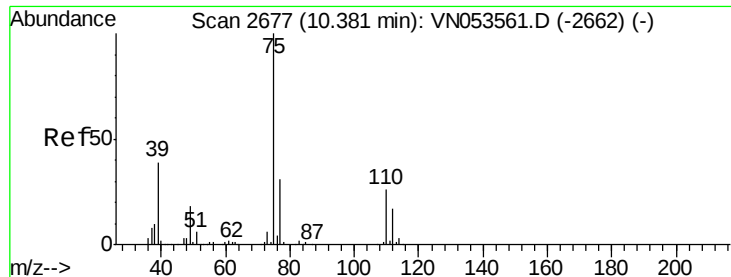
200000

100000

0

Time-->





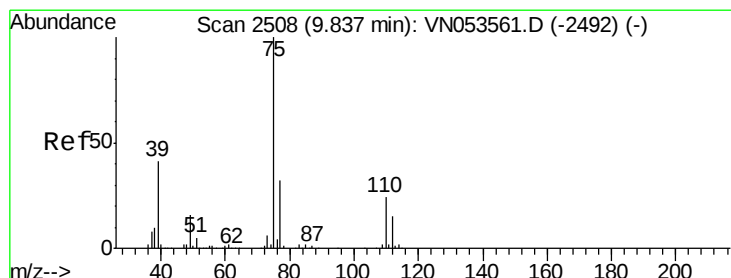
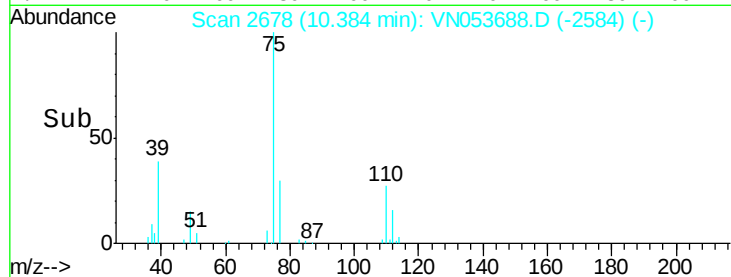
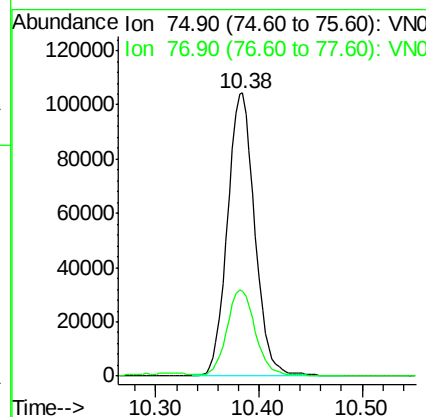
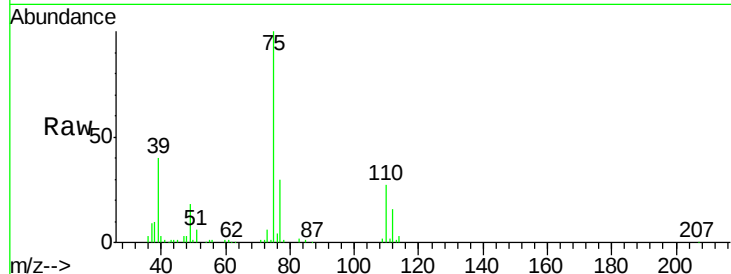
#53
t-1,3-Dichloropropene
Concen: 19.146 ug/l
RT: 10.38 min Scan# 2678
Delta R.T. 0.00 min
Lab File: VN053688.D
Acq: 8 Feb 2019 18:12

Instrument :
MSVOA_N
ClientSampleId :
VN0208WBSD01

Tot Ion	Ratio	Lower	Upper
75	100		
77	29.8	25.5	38.3

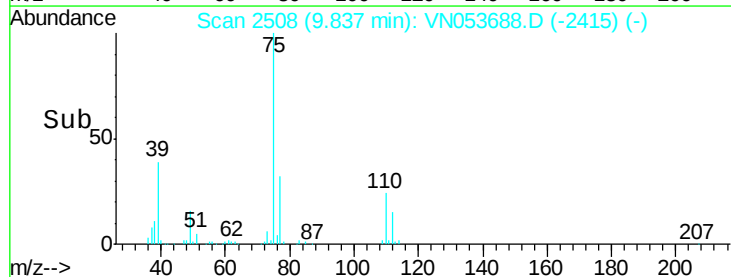
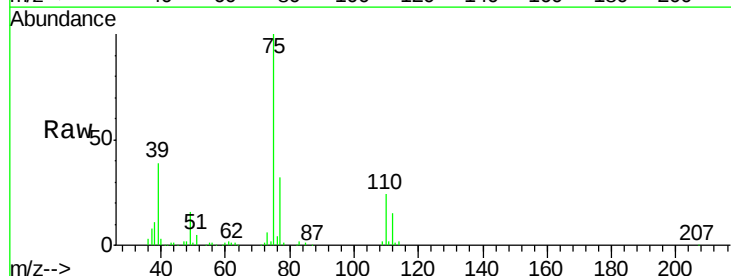
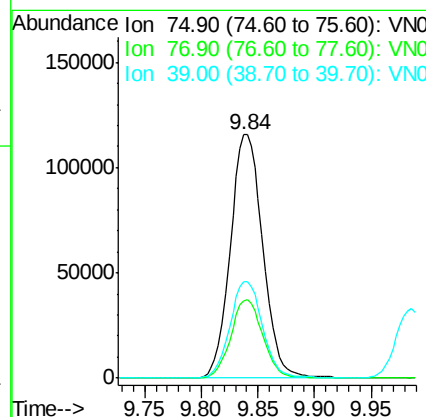
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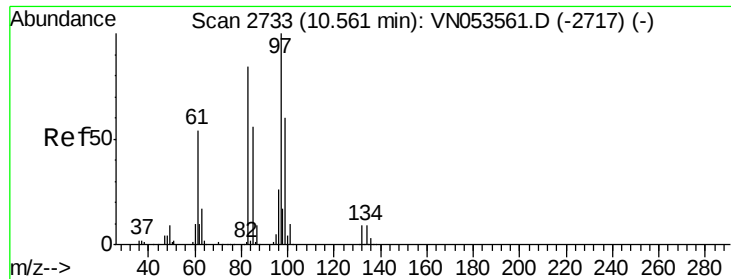
MMDadoda
2/11/2019 9:49:55 AM



#54
cis-1,3-Dichloropropene
Concen: 19.396 ug/l
RT: 9.84 min Scan# 2508
Delta R.T. 0.00 min
Lab File: VN053688.D
Acq: 8 Feb 2019 18:12

Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.8	38.6
39	39.4	33.4	50.0





#55

1,1,2-Trichloroethane

Concen: 20.138 ug/l

RT: 10.56 min Scan# 2734

Delta R.T. 0.00 min

Lab File: VN053688.D

Acq: 8 Feb 2019 18:12

Instrument :

MSVOA_N

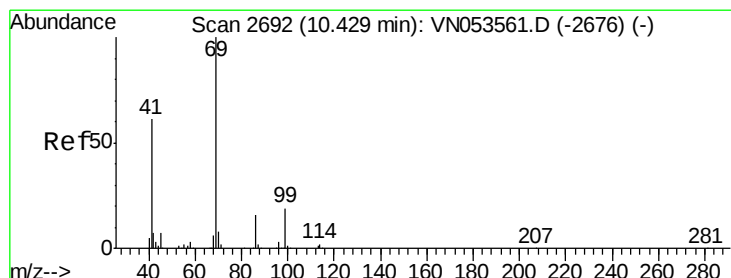
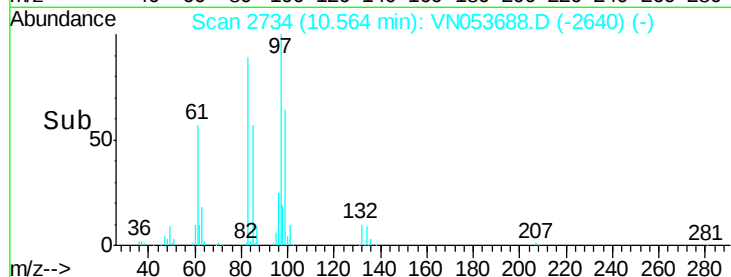
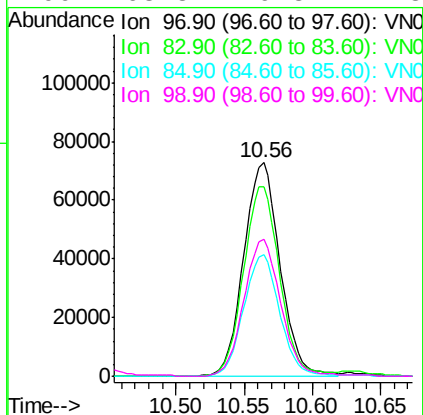
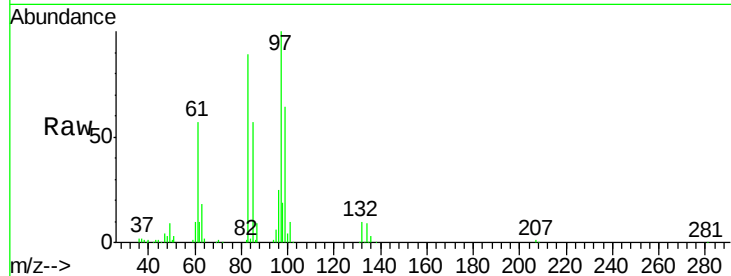
ClientSampleId :

VN0208WBSD01

Tot Ion:	97	Resp:	134898
Ion	Ratio	Lower	Upper
97	100		
83	88.7	70.1	105.1
85	56.9	45.4	68.0
99	63.8	49.8	74.8

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2/11/2019 9:49:55 AM



#56

Ethyl methacrylate

Concen: 21.185 ug/l

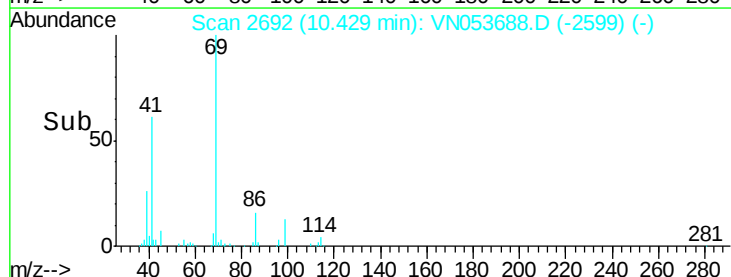
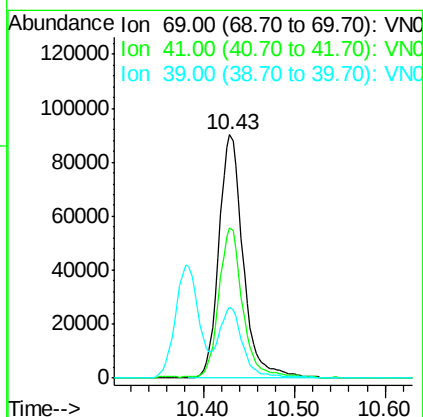
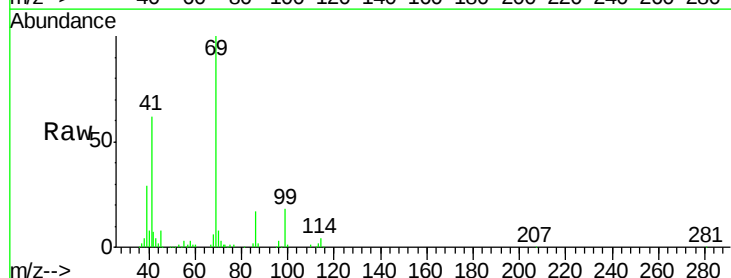
RT: 10.43 min Scan# 2692

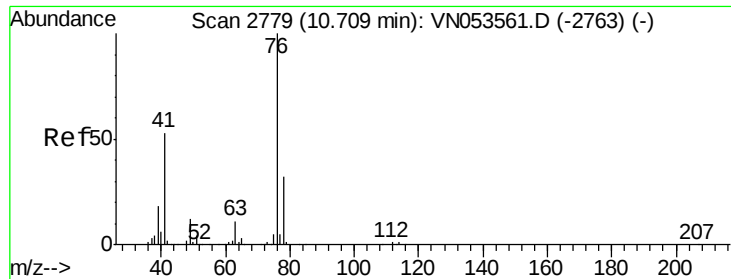
Delta R.T. 0.00 min

Lab File: VN053688.D

Acq: 8 Feb 2019 18:12

Tgt Ion:	69	Resp:	167878
Ion	Ratio	Lower	Upper
69	100		
41	59.3	49.4	74.0
39	27.3	23.3	34.9





#57

1,3-Dichloropropane

Concen: 20.107 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN053688.D

Acq: 8 Feb 2019 18:12

Instrument :

MSVOA_N

ClientSampleId :

VN0208WBSD01

Tot Ion: 76 Resp: 230194

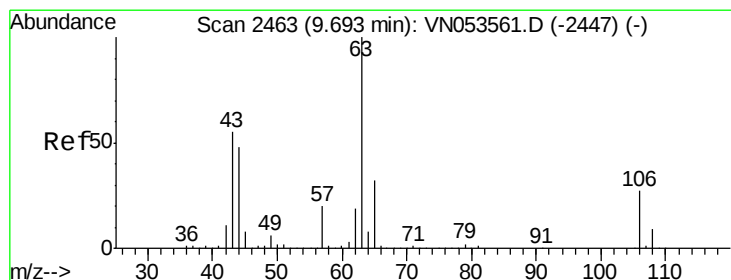
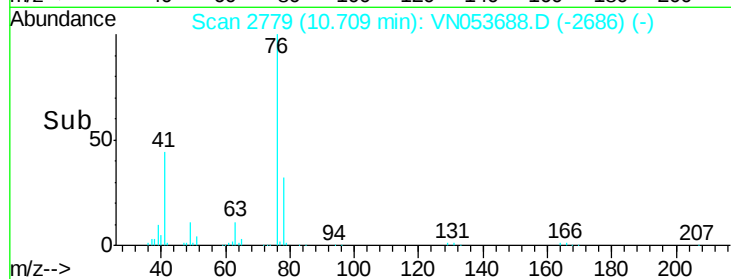
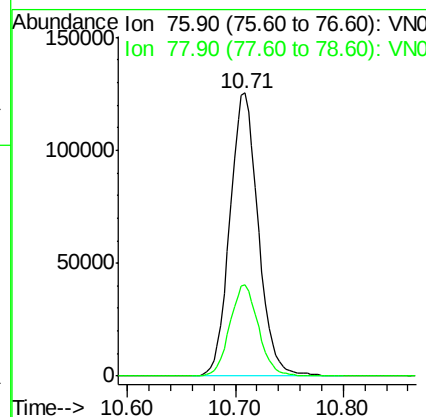
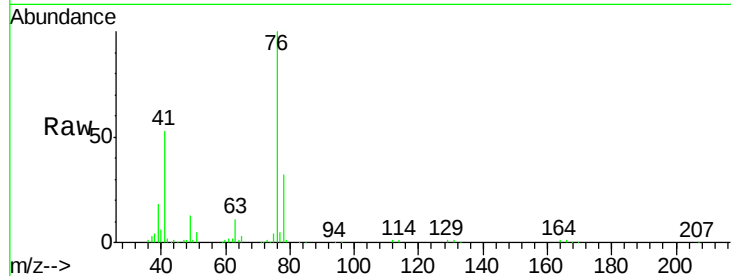
Ion Ratio Lower Upper

76 100

78 32.4 25.6 38.4

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2/11/2019 9:49:55 AM



#58

2-Chloroethyl Vinyl ether

Concen: 83.480 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN053688.D

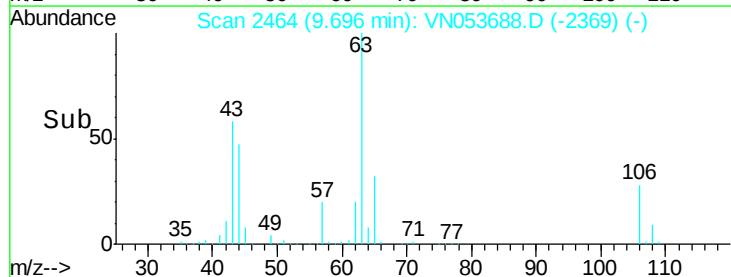
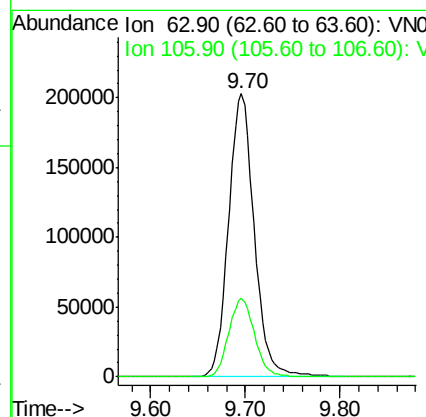
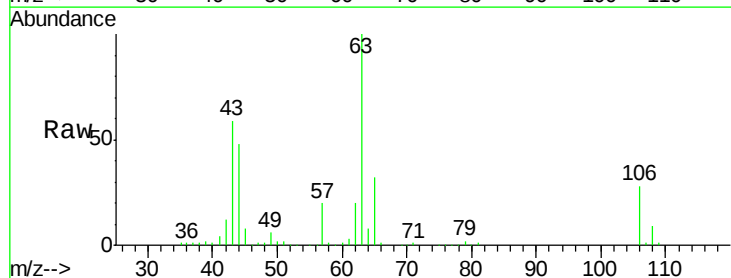
Acq: 8 Feb 2019 18:12

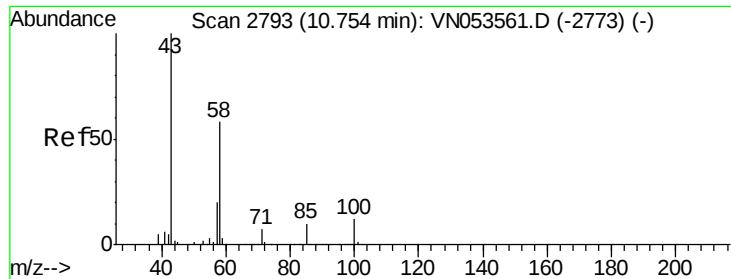
Tgt Ion: 63 Resp: 383179

Ion Ratio Lower Upper

63 100

106 27.9 21.5 32.3





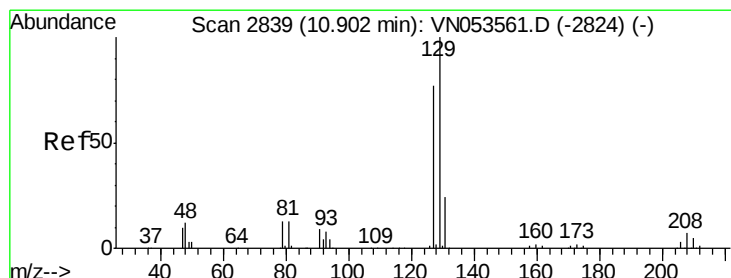
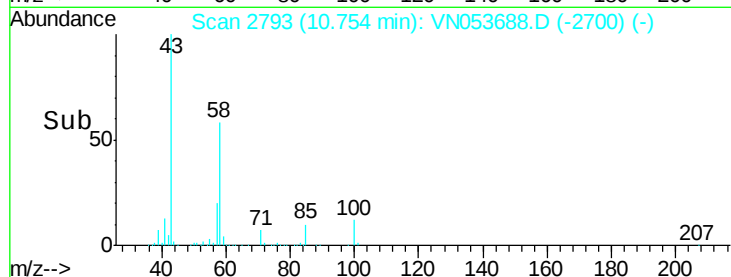
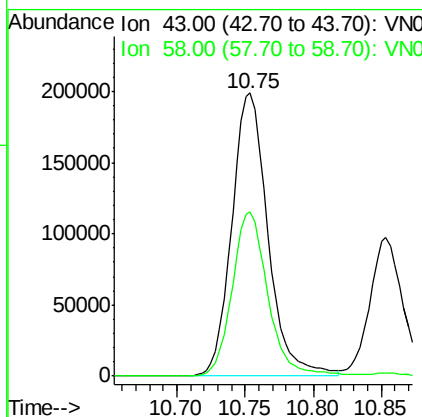
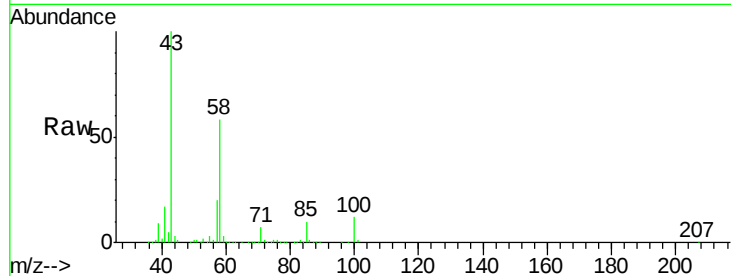
#59
2-Hexanone
Concen: 99.311 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN053688.D
Acq: 8 Feb 2019 18:12

Instrument :
MSVOA_N
ClientSampleId :
VN0208WBSD01

Tot Ion	43	Resp	362950
Ion Ratio	43	100	
Lower	58	57.8	28.6
Upper			85.8

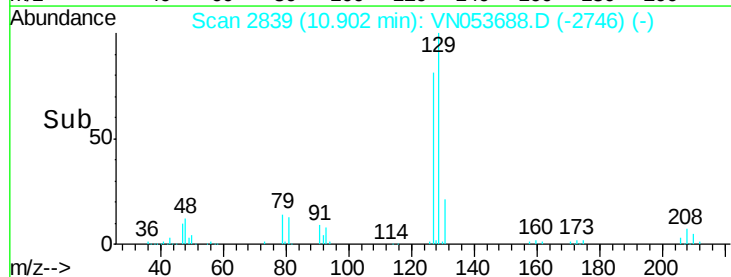
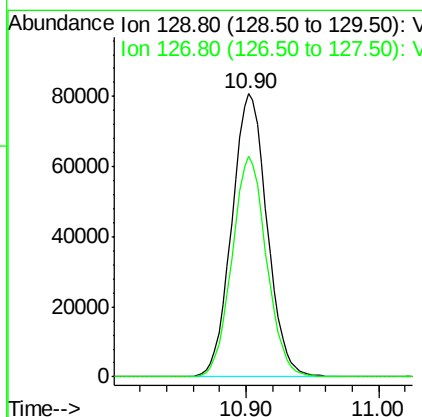
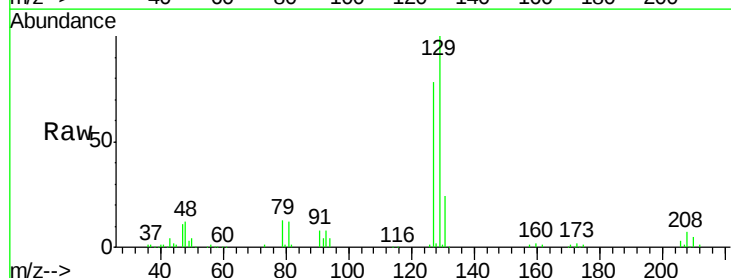
Manual Integrations
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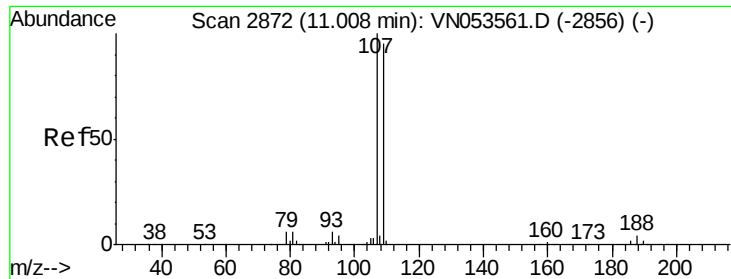
MMDadoda
2/11/2019 9:49:55 AM



#60
Dibromochloromethane
Concen: 19.717 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN053688.D
Acq: 8 Feb 2019 18:12

Tgt Ion	129	Resp	148941
Ion Ratio	129	100	
Lower	127	76.1	38.6
Upper			115.8





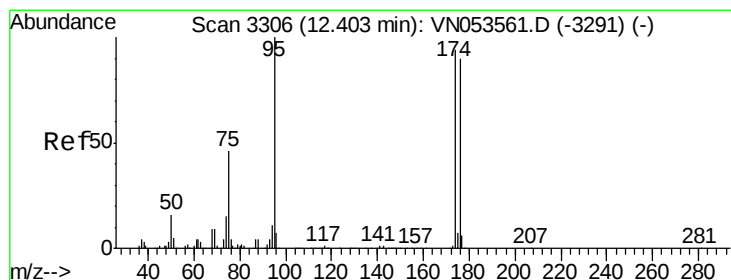
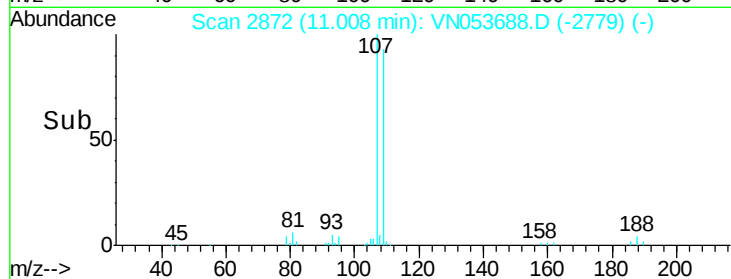
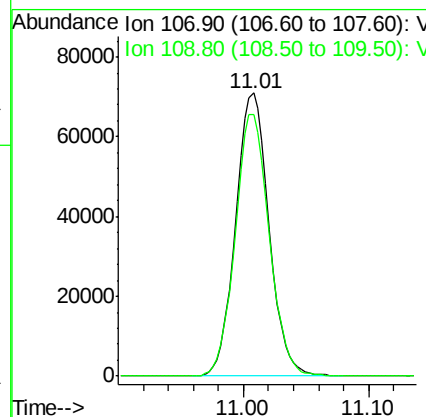
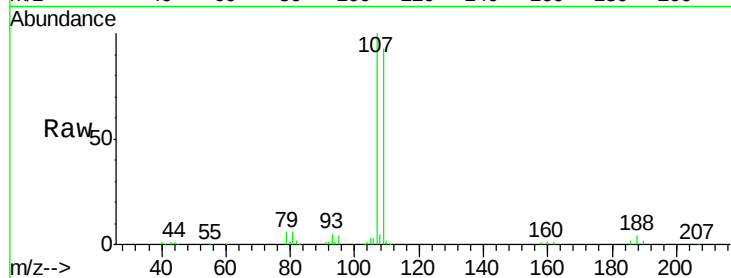
#61
 1,2-Dibromoethane
 Concen: 19.749 ug/l
 RT: 11.01 min Scan# 2872
 Delta R.T. 0.00 min
 Lab File: VN053688.D
 Acq: 8 Feb 2019 18:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0208WBSD01

Tot Ion: 107 Resp: 130934
 Ion Ratio Lower Upper
 107 100
 109 94.4 75.7 113.5

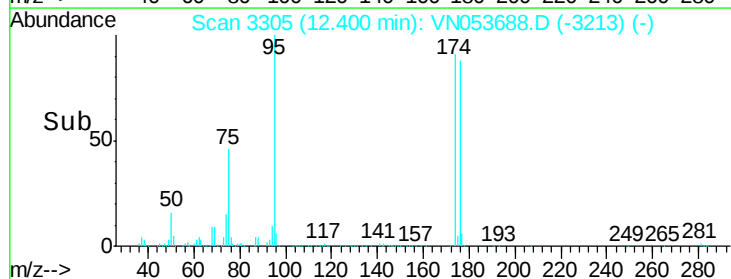
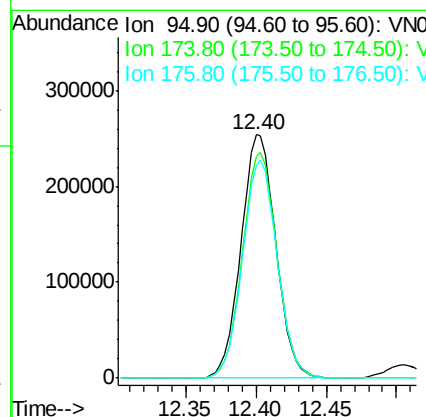
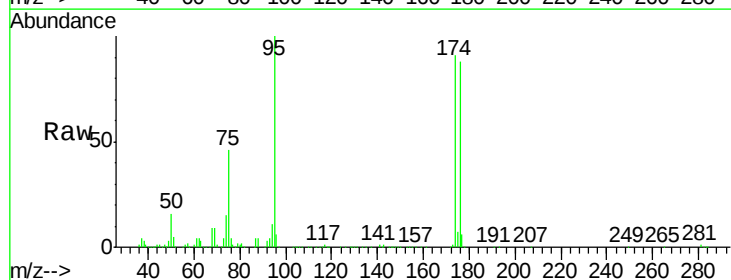
Manual Integrations
 APPROVED

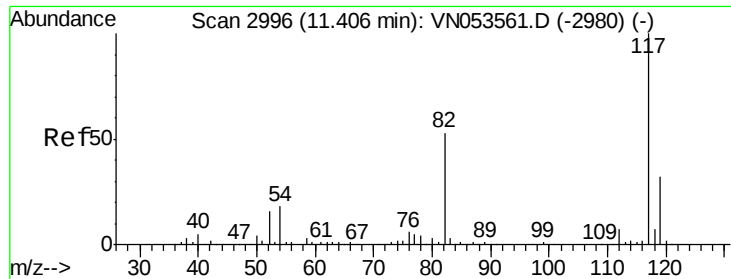
MMDadoda
 2/11/2019 9:49:55 AM



#62
 4-Bromofluorobenzene
 Concen: 49.273 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.00 min
 Lab File: VN053688.D
 Acq: 8 Feb 2019 18:12

Tgt Ion: 95 Resp: 439316
 Ion Ratio Lower Upper
 95 100
 174 92.5 0.0 183.2
 176 89.1 0.0 177.4





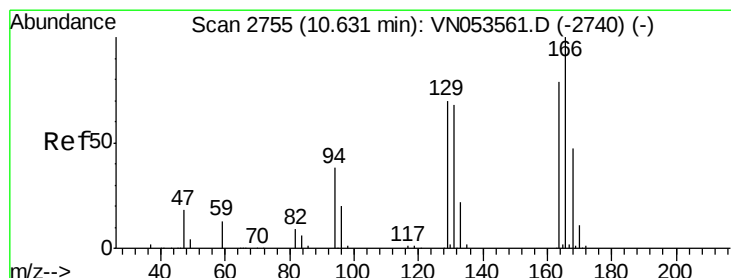
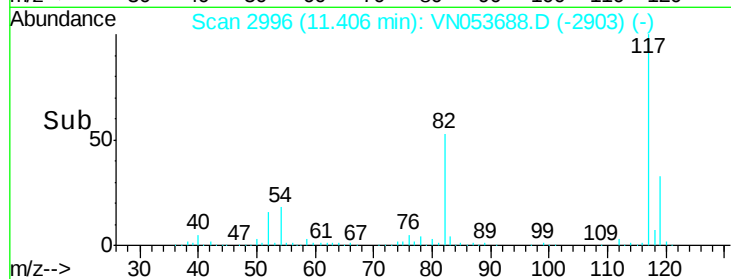
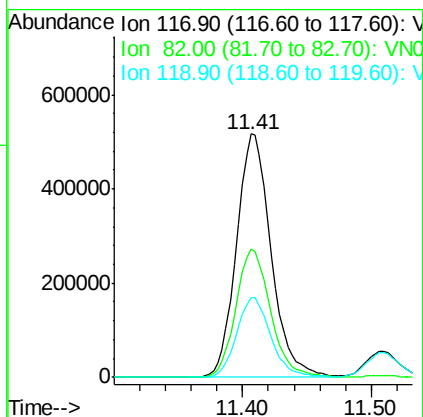
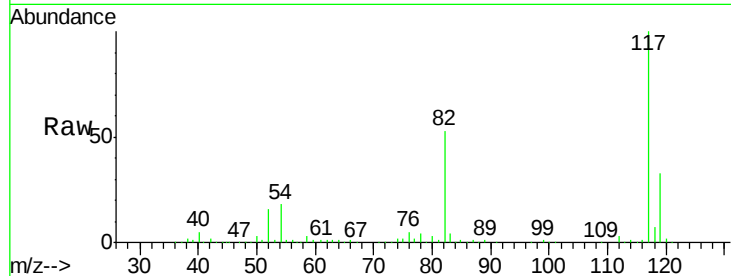
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN053688.D
Acq: 8 Feb 2019 18:12

Instrument :
MSVOA_N
ClientSampleId :
VN0208WBSD01

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.6	42.9	64.3
119	32.9	26.0	39.0

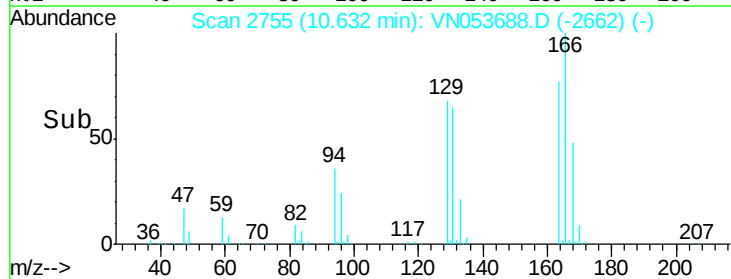
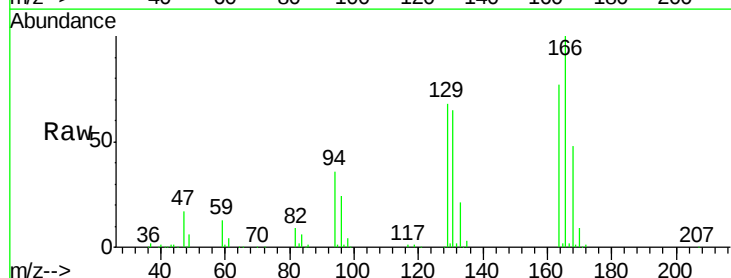
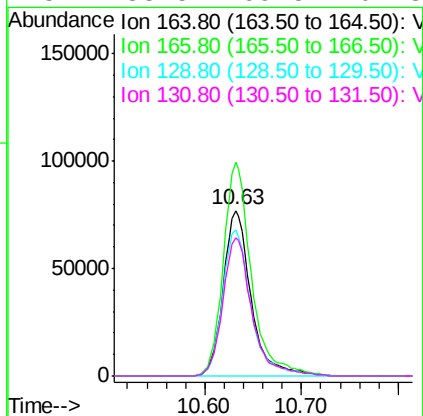
Manual Integrations
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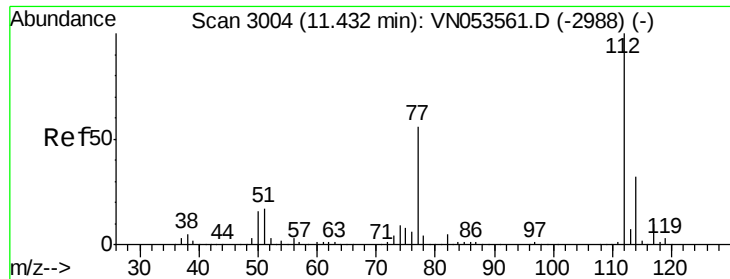
MMDadoda
2/11/2019 9:49:55 AM



#64
Tetrachloroethene
Concen: 18.646 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN053688.D
Acq: 8 Feb 2019 18:12

Tgt Ion	Ratio	Lower	Upper
164	100		
166	129.3	102.2	153.4
129	88.5	72.6	109.0
131	83.5	69.5	104.3





#65

Chlorobenzene

Concen: 19.418 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. 0.00 min

Lab File: VN053688.D

Acq: 8 Feb 2019 18:12

Instrument :

MSVOA_N

ClientSampleId :

VN0208WBSD01

Tot Ion:112 Resp: 398158

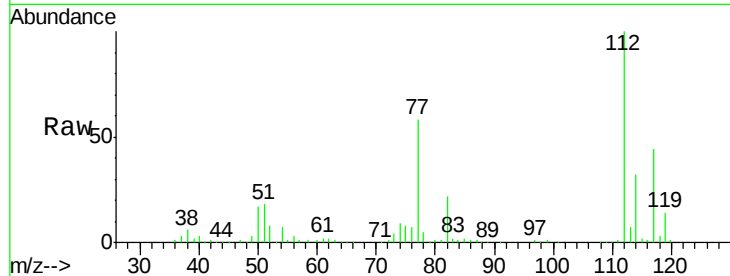
Ion Ratio Lower Upper

112 100

114 32.4 25.3 37.9

Manual Integrations
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Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V

11.43

200000

150000

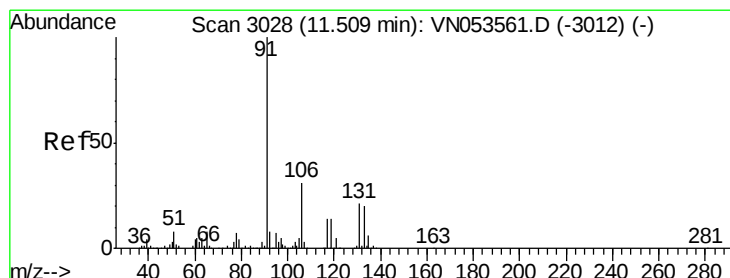
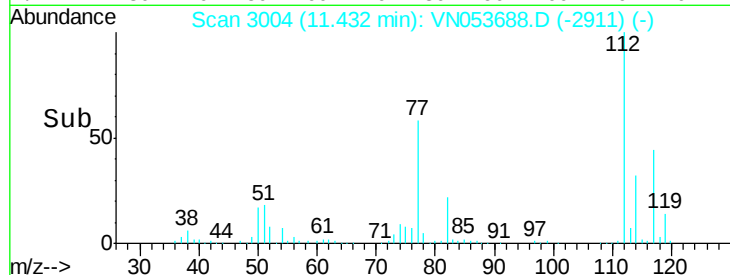
100000

50000

0

11.40 11.50

Time-->



#66

1,1,1,2-Tetrachloroethane

Concen: 20.192 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN053688.D

Acq: 8 Feb 2019 18:12

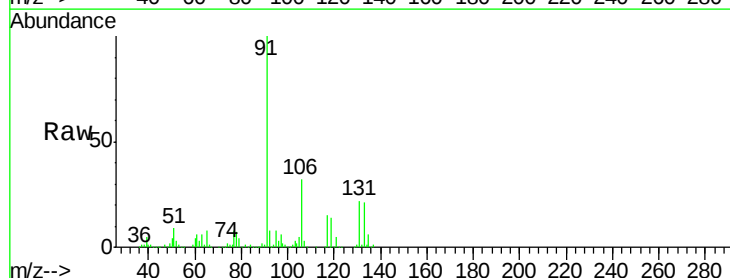
Tgt Ion:131 Resp: 144597

Ion Ratio Lower Upper

131 100

133 96.5 48.0 144.0

119 64.7 33.5 100.5



Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V

200000

150000

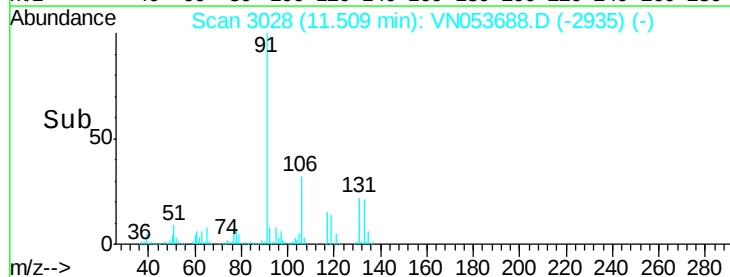
100000

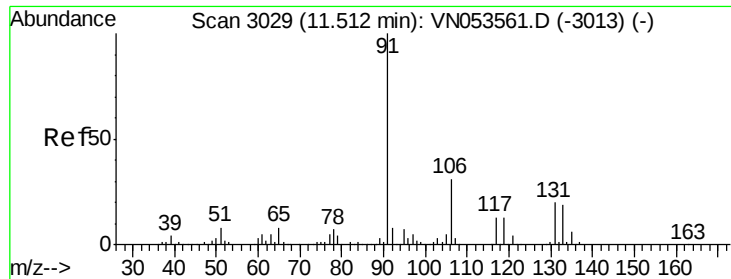
50000

0

11.45 11.50 11.55 11.60

Time-->





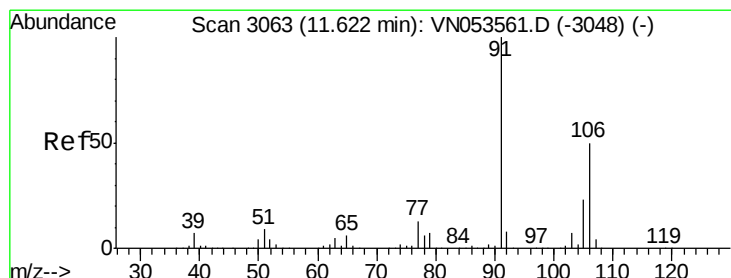
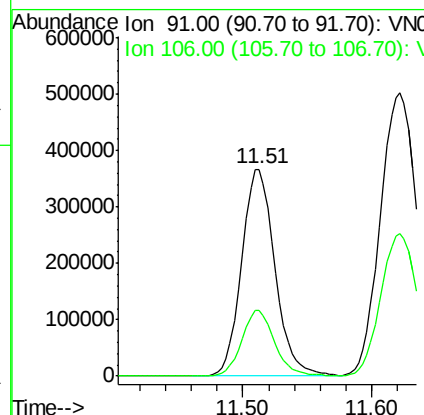
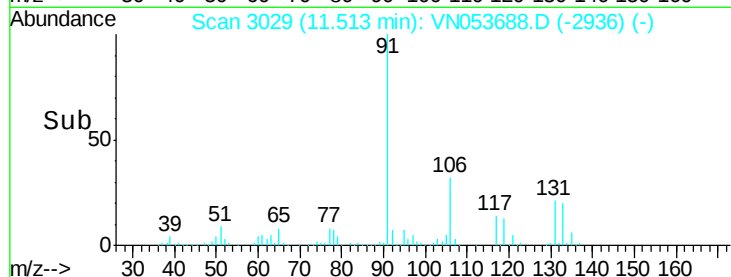
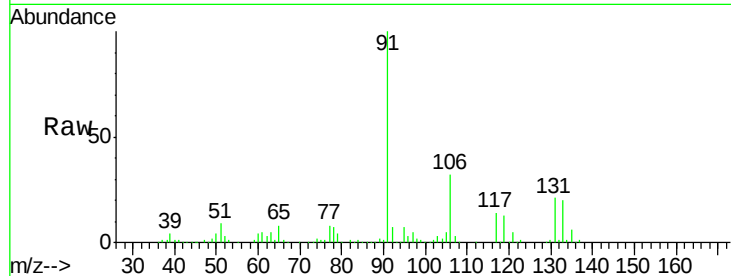
#67
Ethyl Benzene
Concen: 19.644 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. 0.00 min
Lab File: VN053688.D
Acq: 8 Feb 2019 18:12

Instrument :
MSVOA_N
ClientSampled :
VN0208WBSD01

Tot Ion: 91 Resp: 661646
Ion Ratio Lower Upper
91 100
106 31.6 25.0 37.6

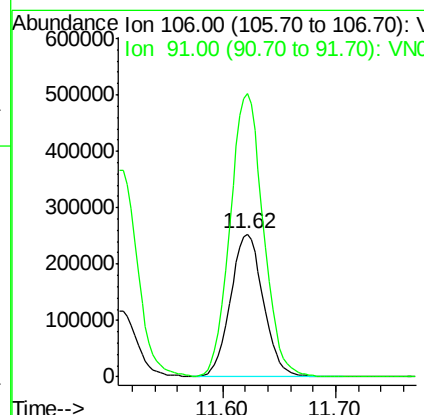
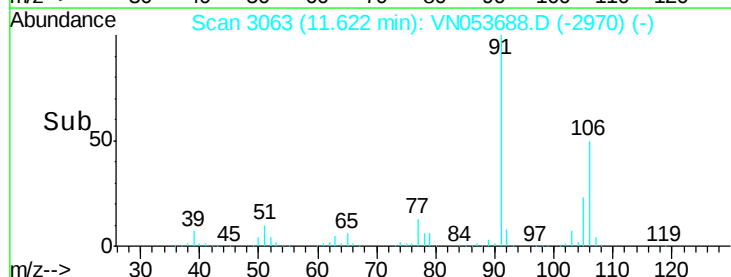
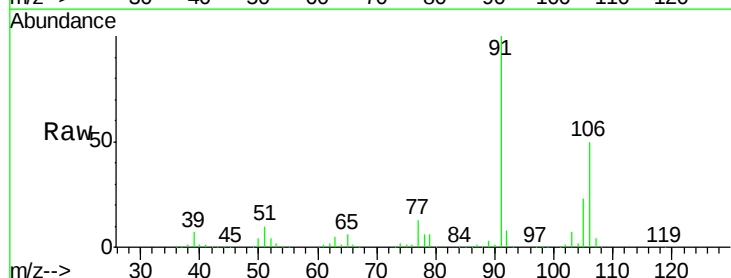
Manual Integrations
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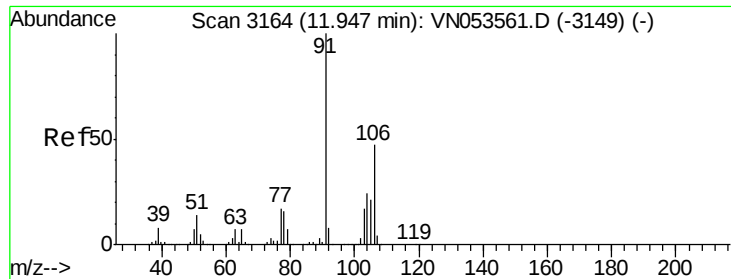
MMDadoda
2/11/2019 9:49:55 AM



#68
m/p-Xylenes
Concen: 39.755 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN053688.D
Acq: 8 Feb 2019 18:12

Tgt Ion: 106 Resp: 511067
Ion Ratio Lower Upper
106 100
91 200.0 161.4 242.2





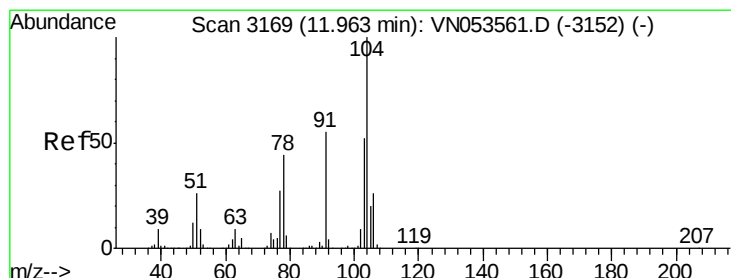
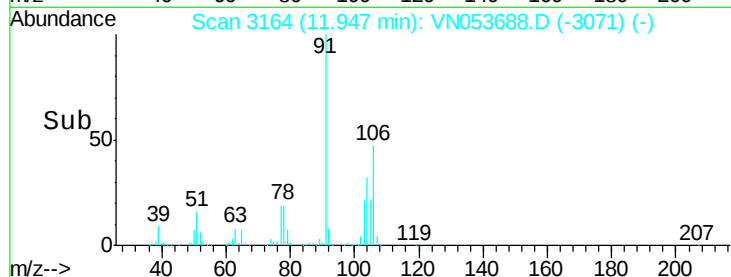
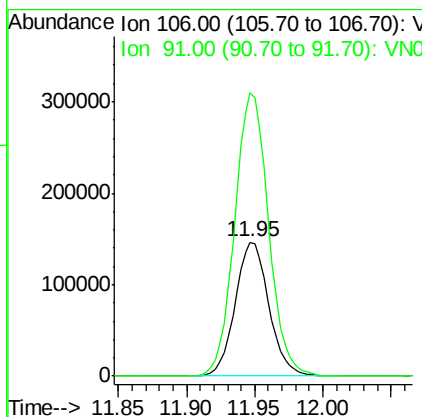
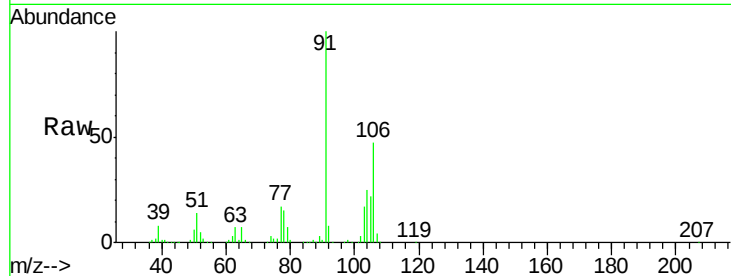
#69
o-Xylene
Concen: 20.197 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN053688.D
Acq: 8 Feb 2019 18:12

Instrument :
MSVOA_N
ClientSampleId :
VN0208WBSD01

Tot Ion	Ratio	Lower	Upper
106	100		
91	212.4	106.9	320.8

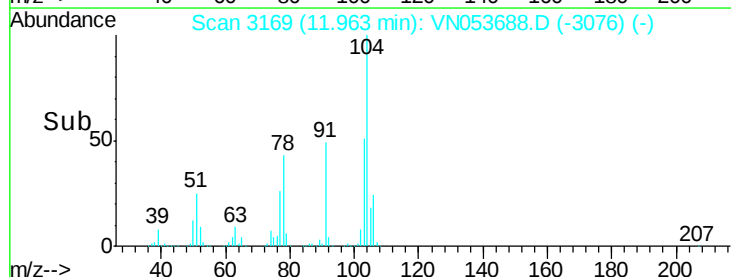
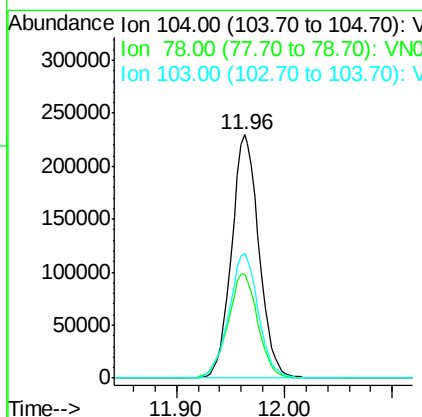
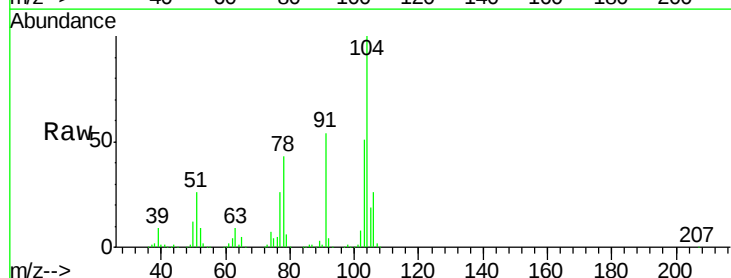
Manual Integrations
APPROVED

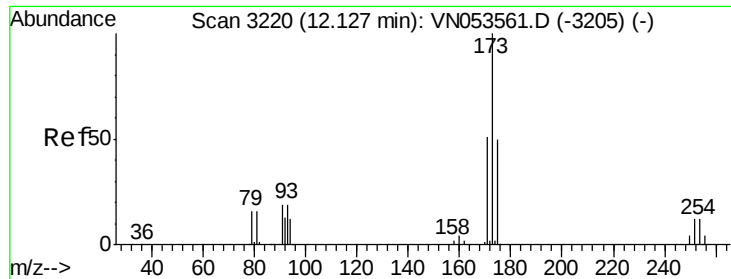
MMDadoda
2/11/2019 9:49:55 AM



#70
Styrene
Concen: 20.260 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN053688.D
Acq: 8 Feb 2019 18:12

Tgt Ion	Ratio	Lower	Upper
104	100		
78	46.8	38.2	57.2
103	54.8	44.4	66.6





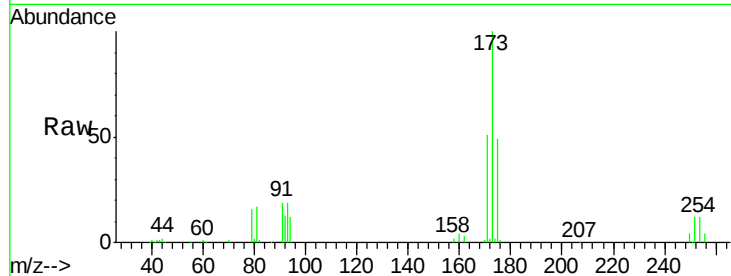
#71
Bromoform
Concen: 20.560 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN053688.D
Acq: 8 Feb 2019 18:12

Instrument :
MSVOA_N
ClientSampleId :
VN0208WBSD01

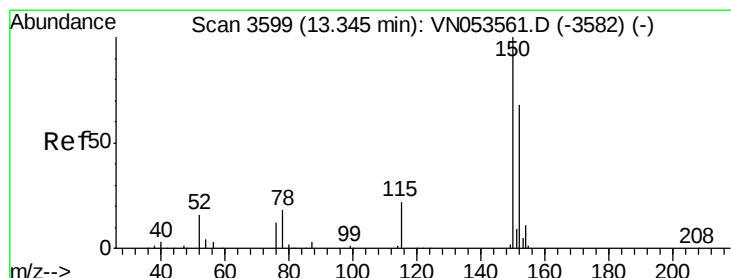
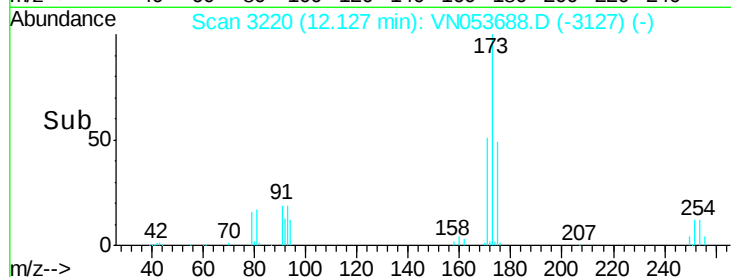
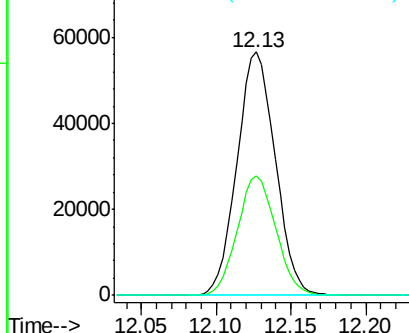
Tot Ion	Ratio	Lower	Upper
173	100		
175	49.2	24.6	74.0
254	0.0	0.2	0.2

Manual Integrations
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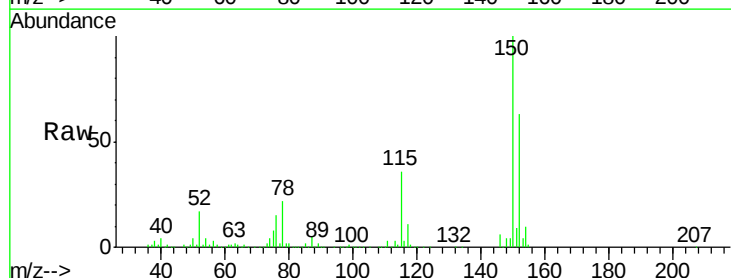


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

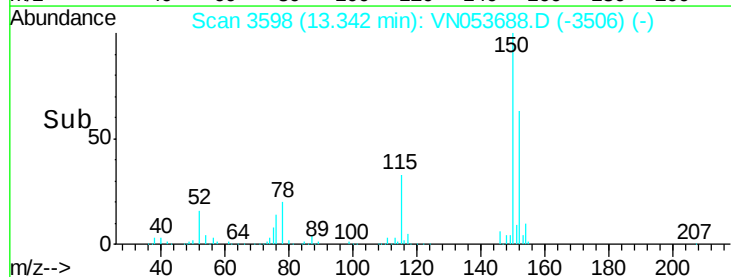
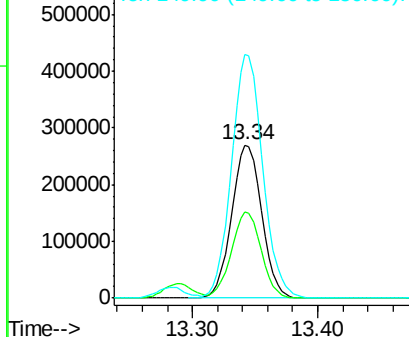


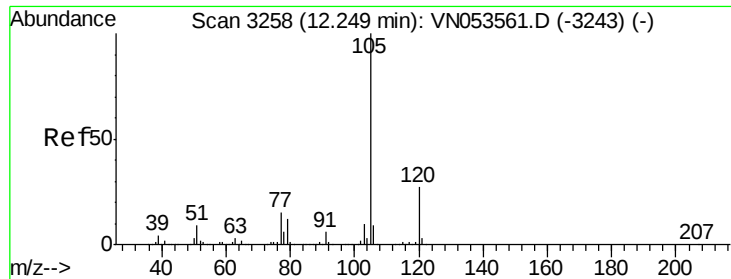
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN053688.D
Acq: 8 Feb 2019 18:12

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.8	27.8	83.4
150	165.3	0.0	349.0



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





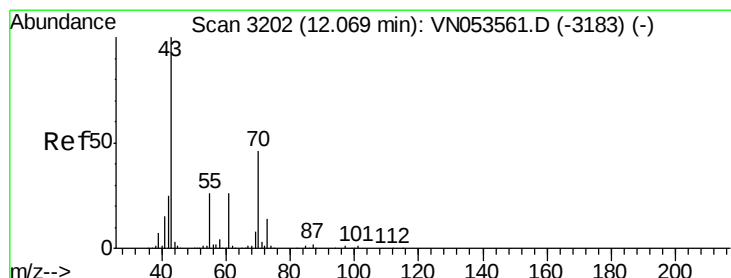
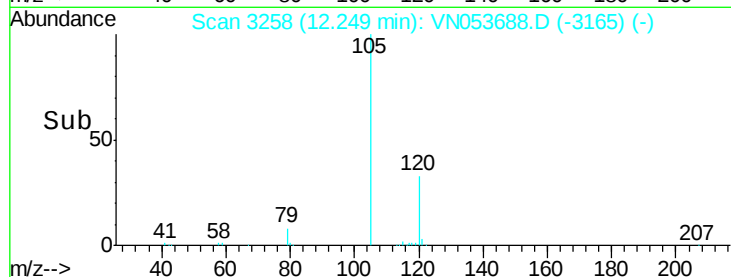
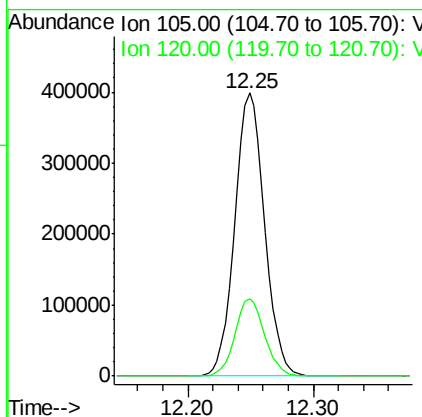
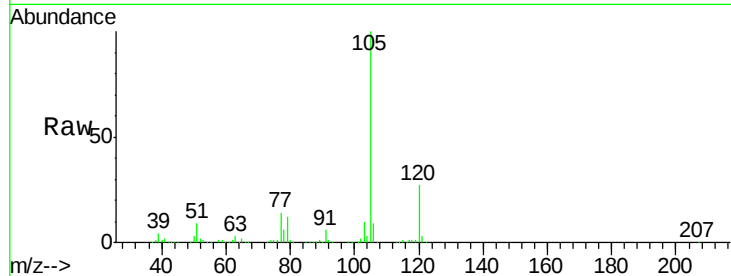
#73
Isopropylbenzene
Concen: 20.729 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. 0.00 min
Lab File: VN053688.D
Acq: 8 Feb 2019 18:12

Instrument :
MSVOA_N
ClientSampleId :
VN0208WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
105	100	655150		
120	27.2	13.6	40.7	

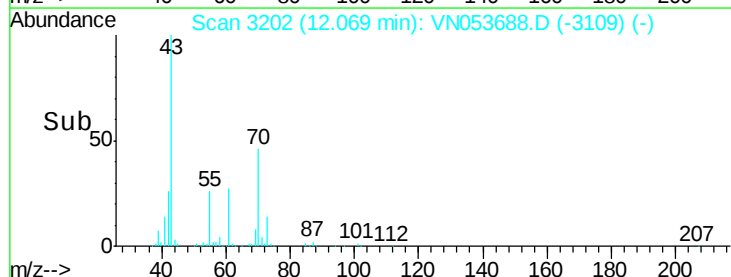
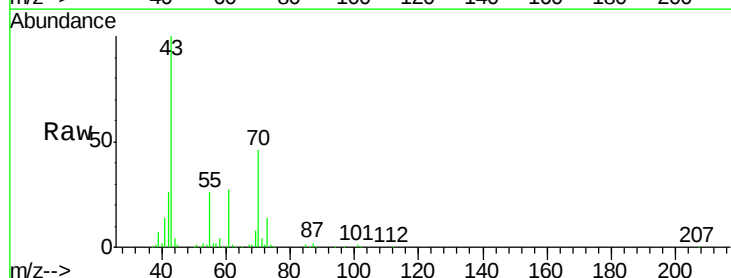
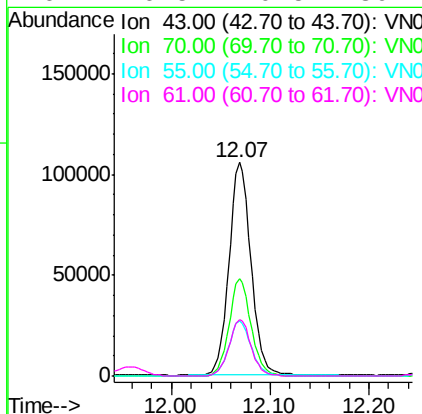
Manual Integrations
APPROVED

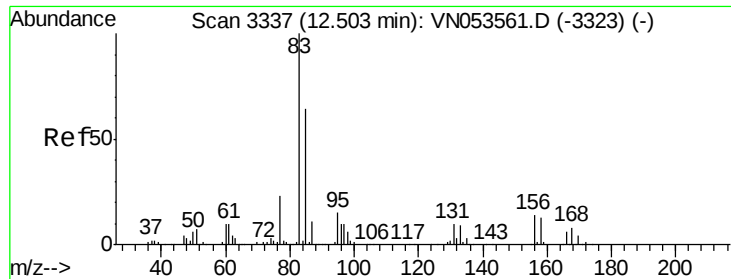
MMDadoda
2/11/2019 9:49:55 AM



#74
N-ethyl acetate
Concen: 21.718 ug/l
RT: 12.07 min Scan# 3202
Delta R.T. 0.00 min
Lab File: VN053688.D
Acq: 8 Feb 2019 18:12

Tgt Ion	Ratio	Resp	Lower	Upper
43	100	165062		
70	45.4	35.4	53.2	
55	26.6	20.9	31.3	
61	26.5	20.5	30.7	





#75

1,1,2,2-Tetrachloroethane

Concen: 21.422 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN053688.D

Acq: 8 Feb 2019 18:12

Instrument :

MSVOA_N

ClientSampleId :

VN0208WBSD01

Tot Ion: 83 Resp: 162040

Ion Ratio Lower Upper

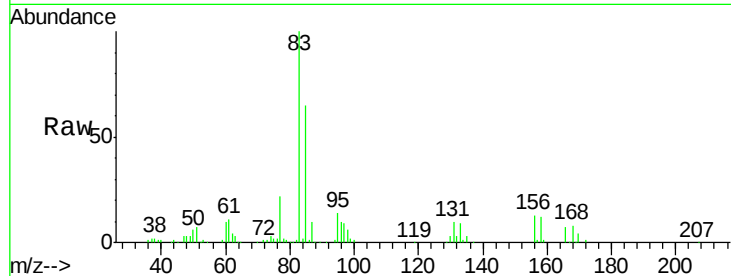
83 100

131 10.3 5.3 15.8

85 64.7 32.1 96.3

Manual Integrations
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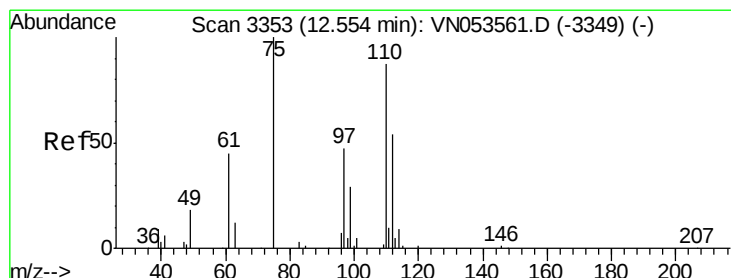
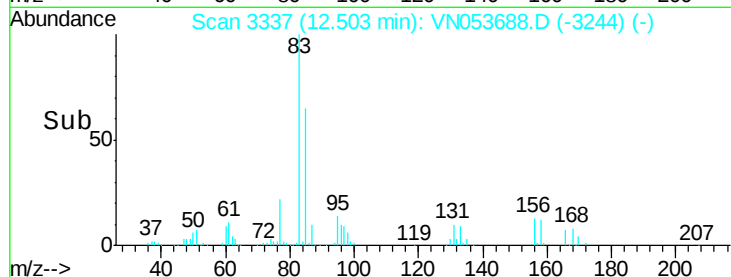
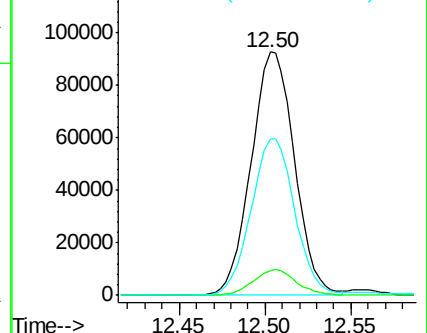
MMDadoda
2/11/2019 9:49:55 AM



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): VN0

Ion 84.90 (84.60 to 85.60): VN0



#76

1,2,3-Trichloropropane

Concen: 20.936 ug/l m

RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

Lab File: VN053688.D

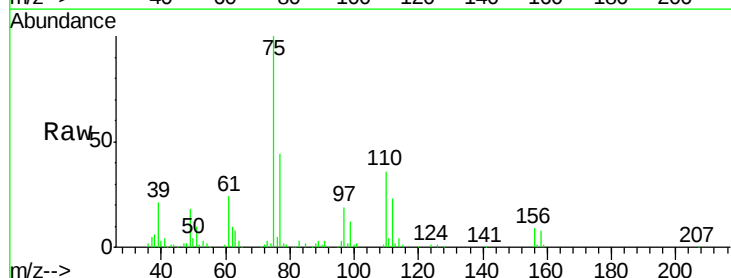
Acq: 8 Feb 2019 18:12

Tgt Ion: 75 Resp: 120899

Ion Ratio Lower Upper

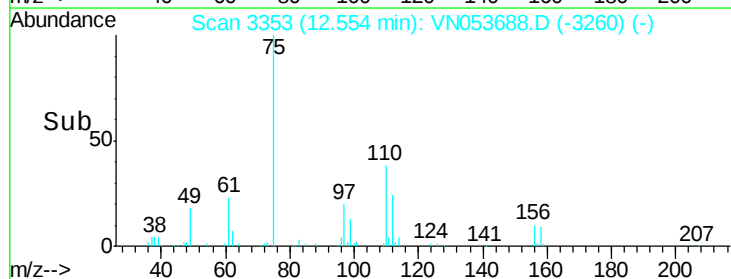
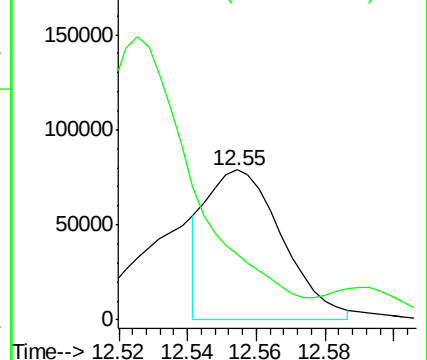
75 100

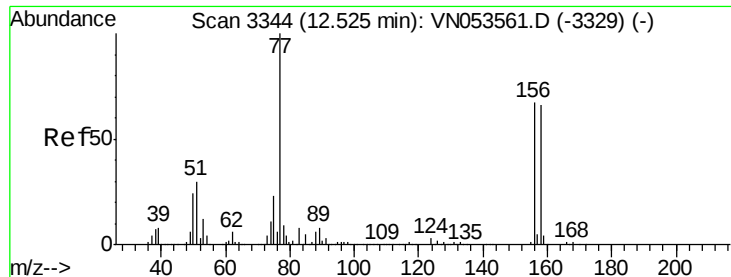
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#77

Bromobenzene

Concen: 20.600 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN053688.D

Acq: 8 Feb 2019 18:12

Instrument :

MSVOA_N

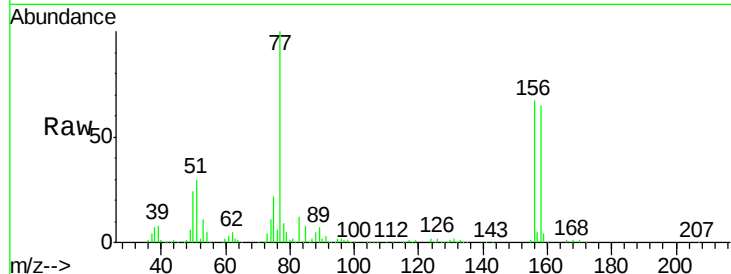
ClientSampleId :

VN0208WBSD01

Tot Ion	Ratio	Lower	Upper
156	100		
77	174.0	87.9	263.8
158	95.6	48.8	146.4

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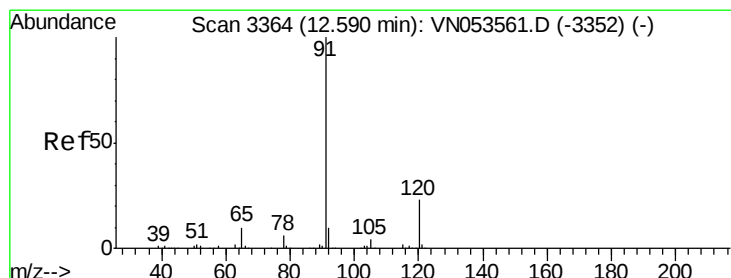
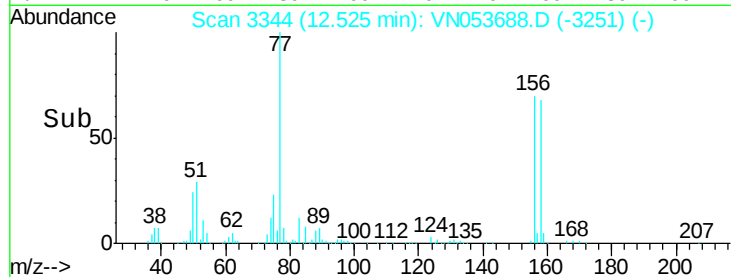
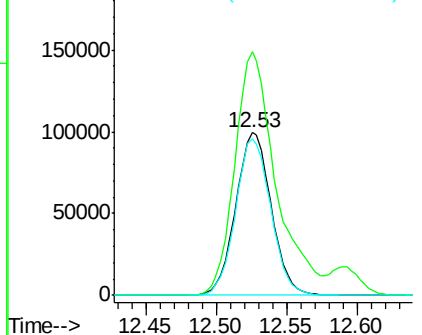
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Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 20.352 ug/l

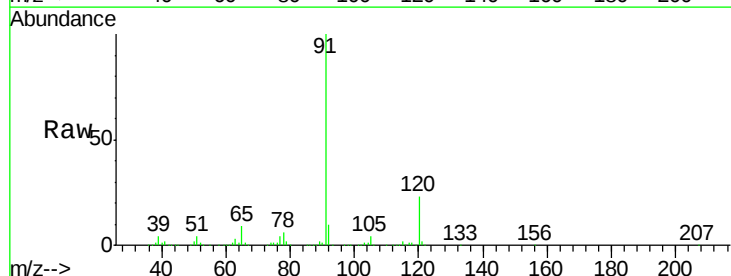
RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN053688.D

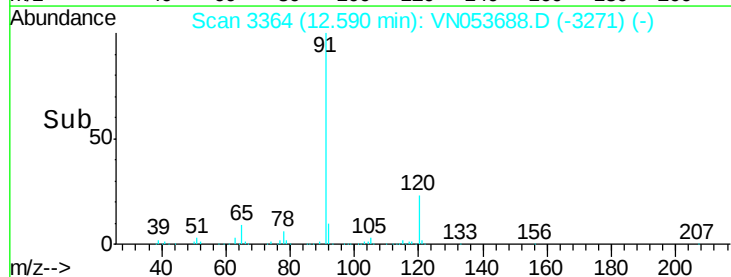
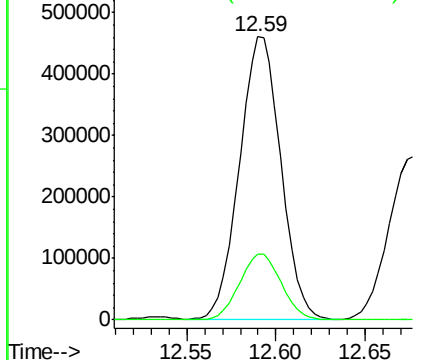
Acq: 8 Feb 2019 18:12

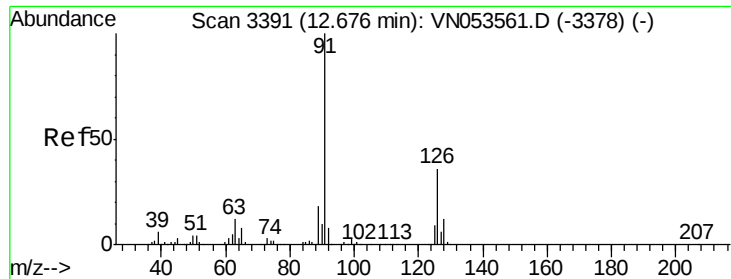
Tgt Ion	Ratio	Lower	Upper
91	100		
120	23.6	11.9	35.5



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 20.536 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN053688.D

Acq: 8 Feb 2019 18:12

Instrument :

MSVOA_N

ClientSampleId :

VN0208WBSD01

Tot Ion: 91 Resp: 445135

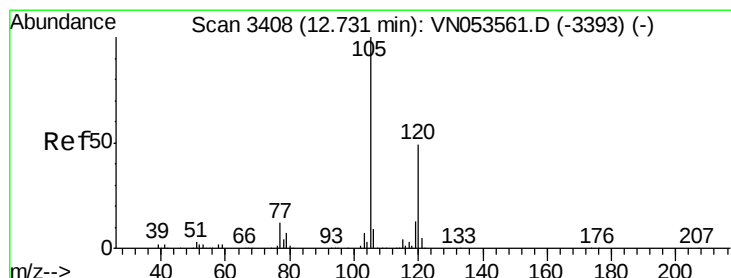
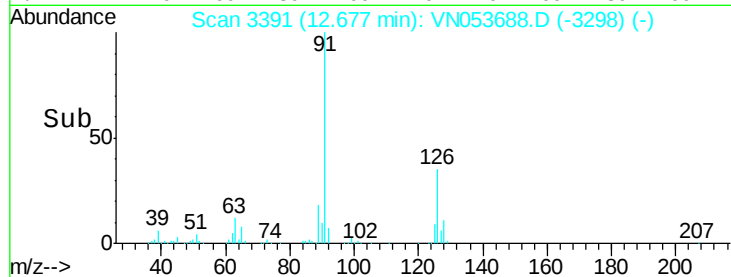
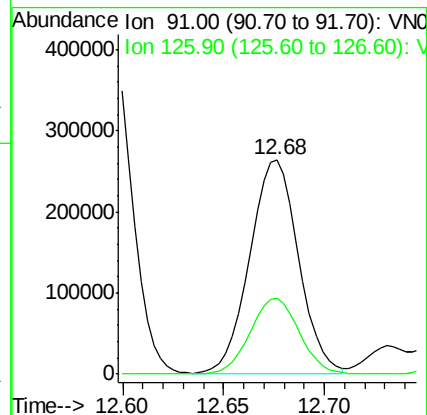
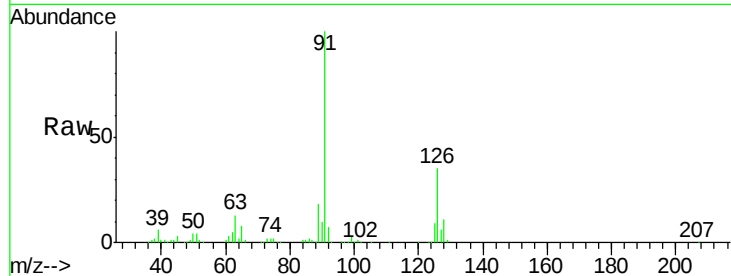
Ion Ratio Lower Upper

91 100

126 36.0 17.9 53.7

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#80

1,3,5-Trimethylbenzene

Concen: 21.141 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN053688.D

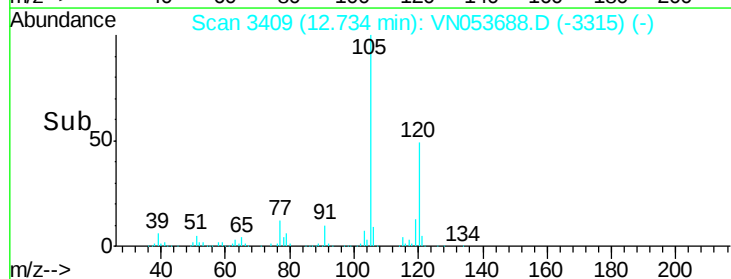
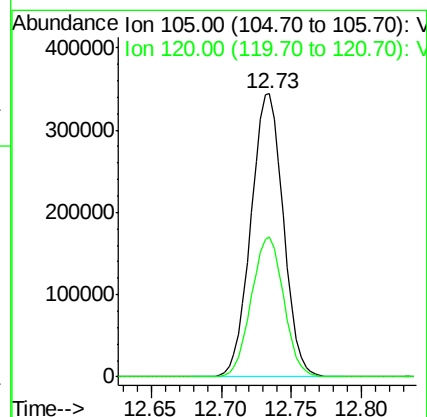
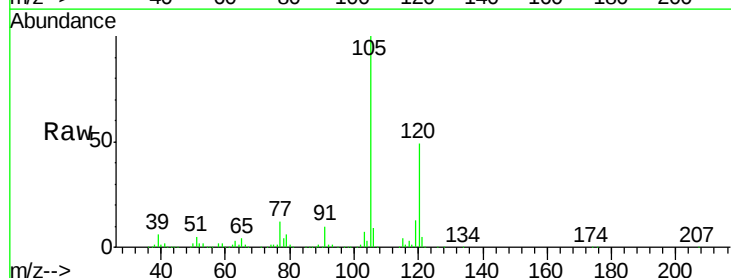
Acq: 8 Feb 2019 18:12

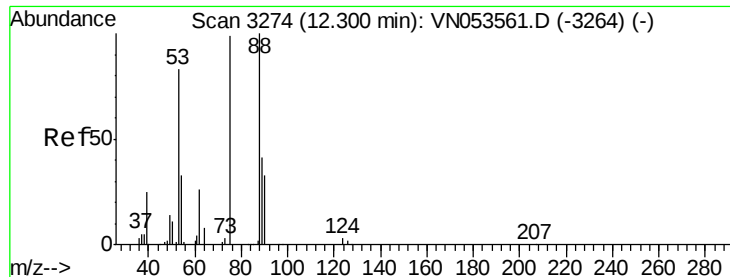
Tgt Ion: 105 Resp: 554080

Ion Ratio Lower Upper

105 100

120 49.5 24.9 74.6





#81

trans-1,4-Dichloro-2-butene

Concen: 20.147 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN053688.D

Acq: 8 Feb 2019 18:12

Instrument :

MSVOA_N

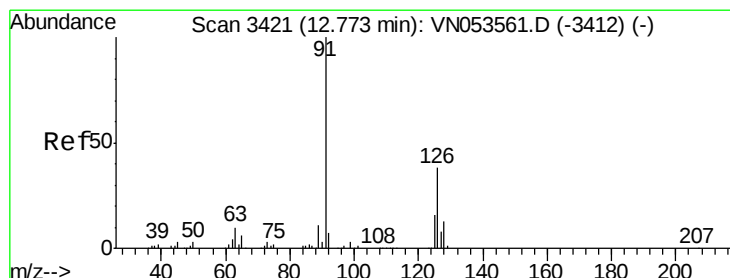
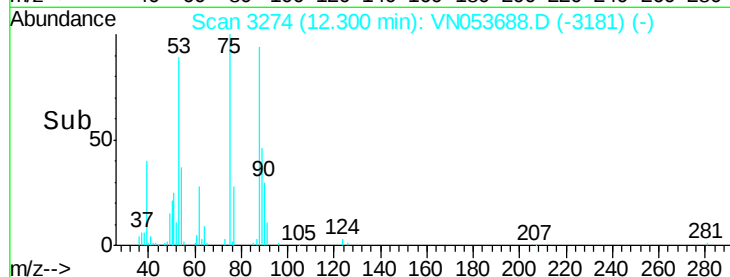
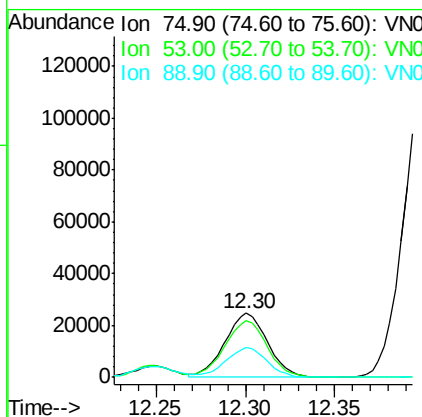
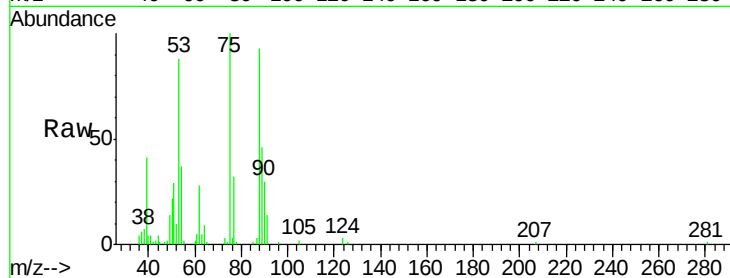
ClientSampleId :

VN0208WBSD01

Tot Ion:	75	Resp:	41374
Ion	Ratio	Lower	Upper
75	100		
53	87.9	69.8	104.6
89	44.6	35.6	53.4

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#82

4-Chlorotoluene

Concen: 20.041 ug/l

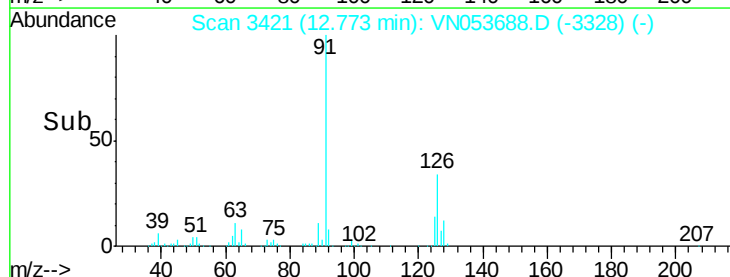
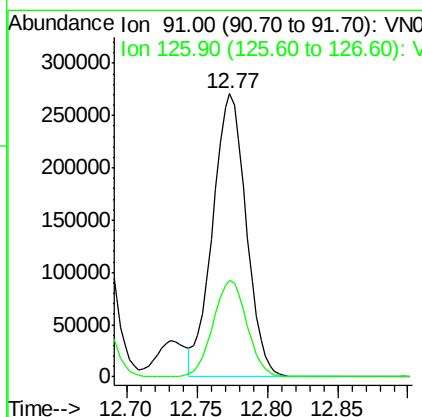
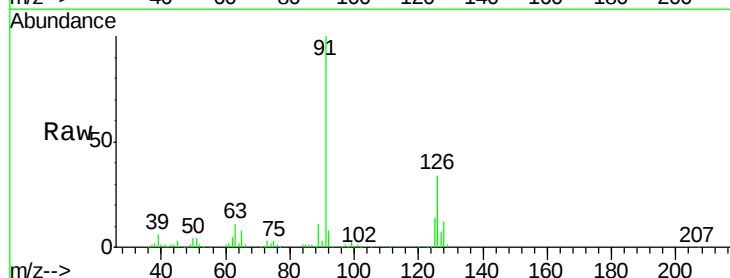
RT: 12.77 min Scan# 3421

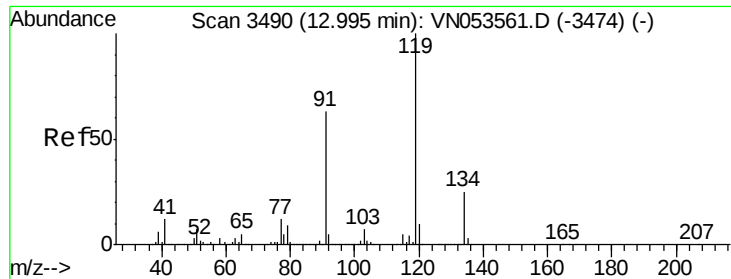
Delta R.T. 0.00 min

Lab File: VN053688.D

Acq: 8 Feb 2019 18:12

Tgt Ion:	91	Resp:	445774
Ion	Ratio	Lower	Upper
91	100		
126	34.5	17.6	52.9





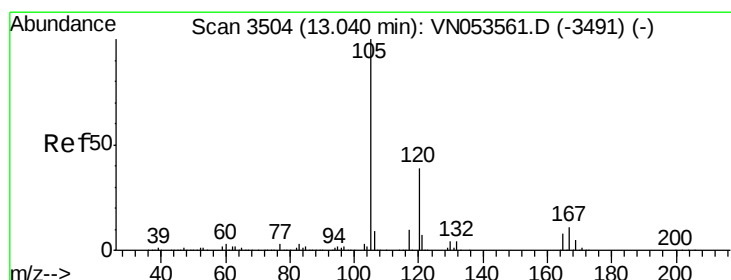
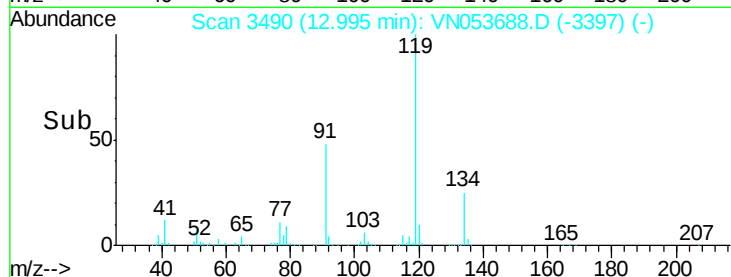
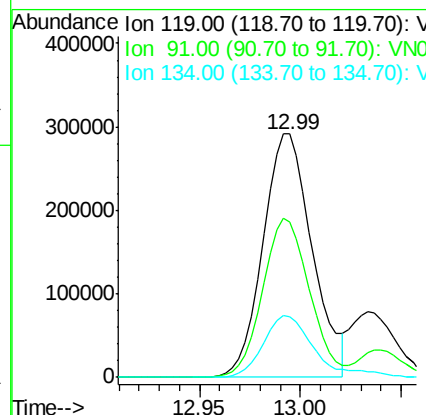
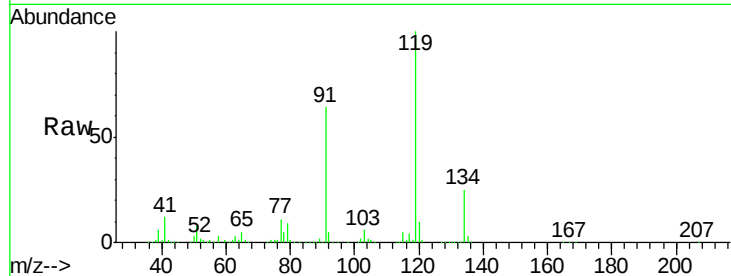
#83
 tert-Butylbenzene
 Concen: 21.391 ug/l
 RT: 12.99 min Scan# 3490
 Delta R.T. 0.00 min
 Lab File: VN053688.D
 Acq: 8 Feb 2019 18:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0208WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	495509		
91	62.6	31.3	93.8	
134	26.5	12.9	38.7	

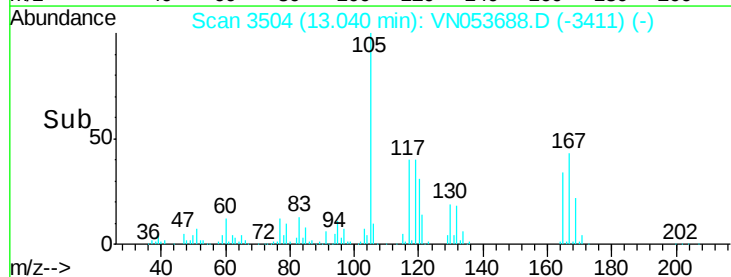
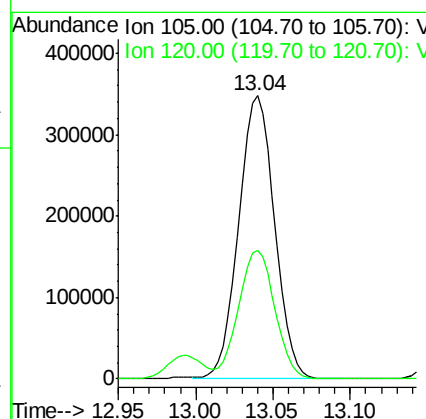
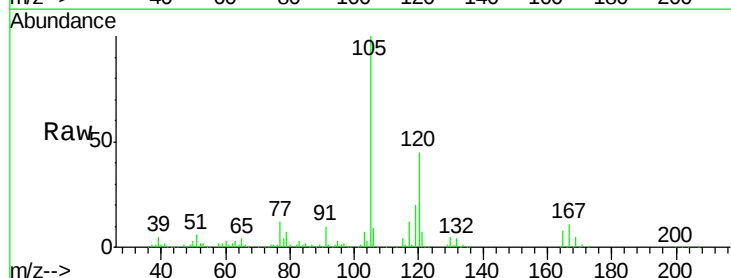
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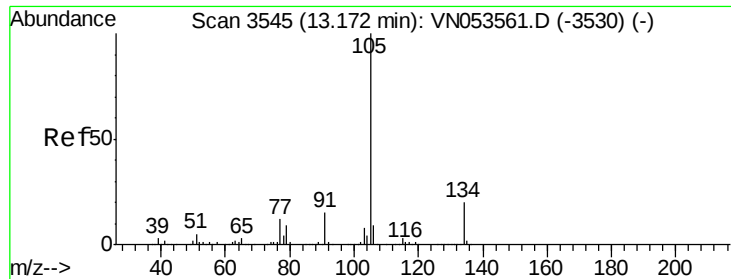
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#84
 1,2,4-Trimethylbenzene
 Concen: 20.971 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.00 min
 Lab File: VN053688.D
 Acq: 8 Feb 2019 18:12

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	559955		
120	45.9	23.0	69.0	





#85

sec-Butylbenzene

Concen: 21.130 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN053688.D

Acq: 8 Feb 2019 18:12

Instrument :

MSVOA_N

ClientSampleId :

VN0208WBSD01

Tot Ion:105 Resp: 666041

Ion Ratio Lower Upper

105 100

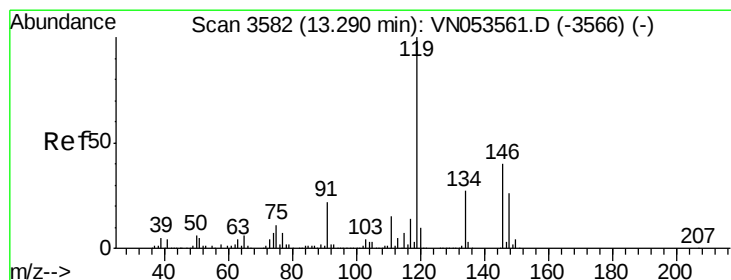
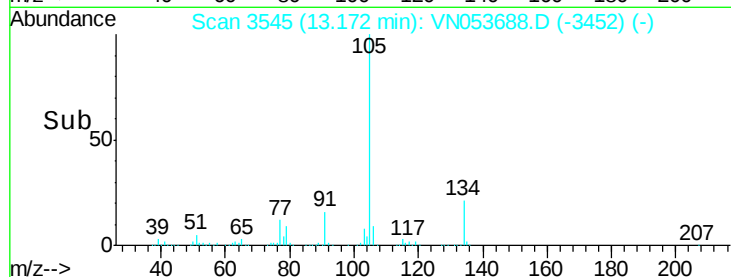
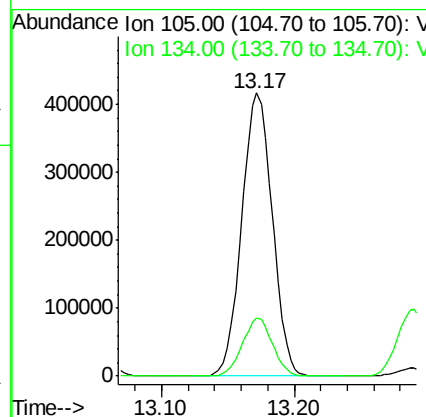
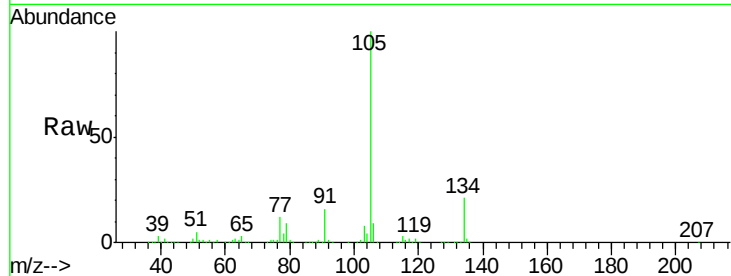
134 20.2 10.2 30.6

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#86

p-Isopropyltoluene

Concen: 20.841 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. -0.00 min

Lab File: VN053688.D

Acq: 8 Feb 2019 18:12

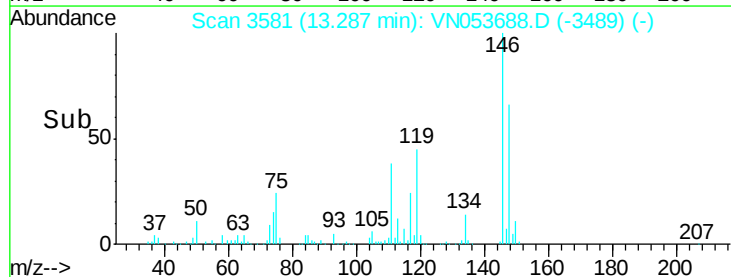
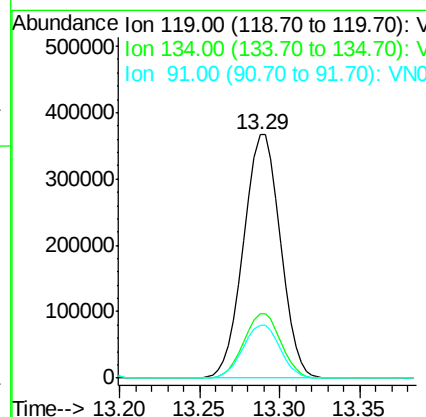
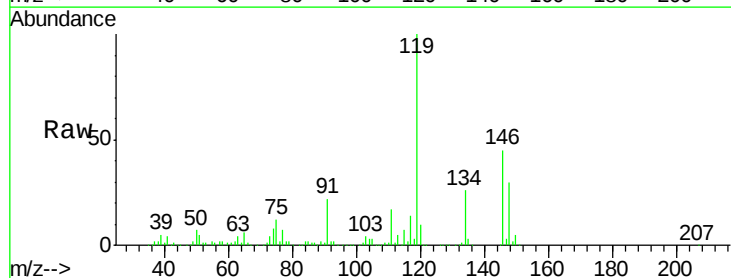
Tgt Ion:119 Resp: 574557

Ion Ratio Lower Upper

119 100

134 26.8 13.5 40.4

91 21.9 11.0 33.0





#87

1,3-Dichlorobenzene

Concen: 19.410 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. 0.00 min

Lab File: VN053688.D

Acq: 8 Feb 2019 18:12

Instrument :

MSVOA_N

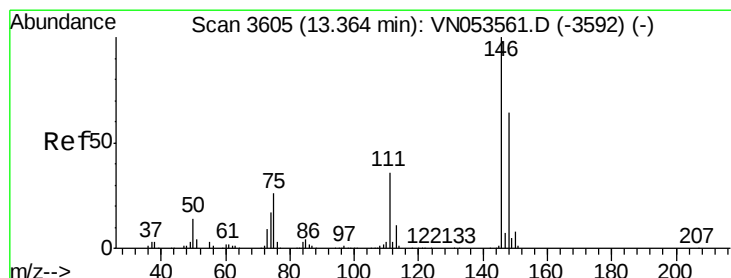
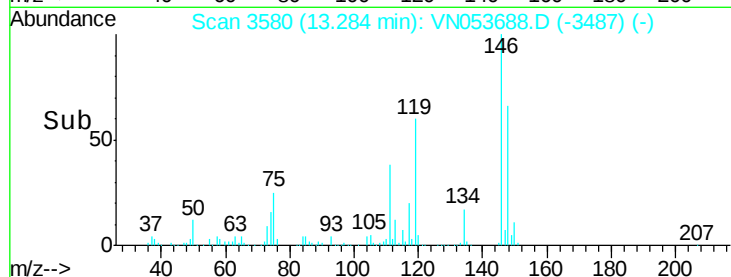
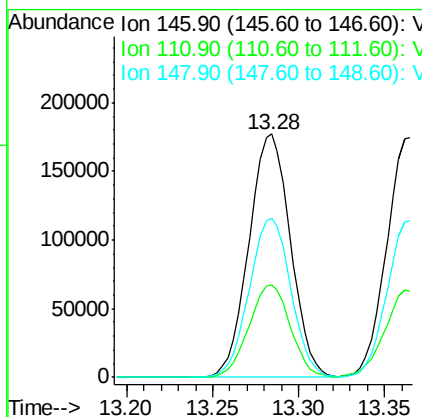
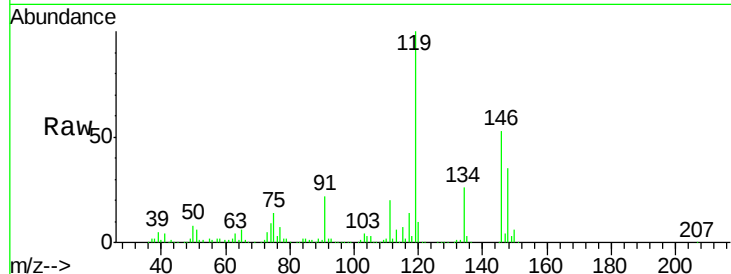
ClientSampleId :

VN0208WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
146	100	297216		
111	37.9	18.8	56.3	
148	65.4	32.0	96.2	

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#88

1,4-Dichlorobenzene

Concen: 19.409 ug/l

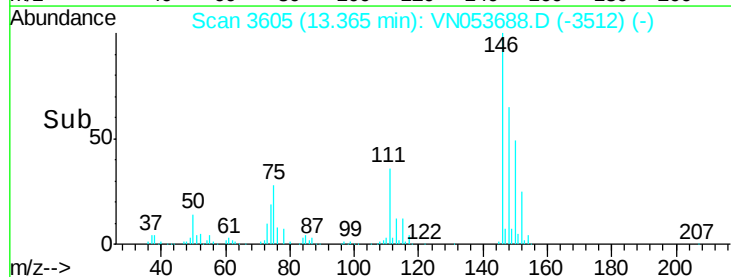
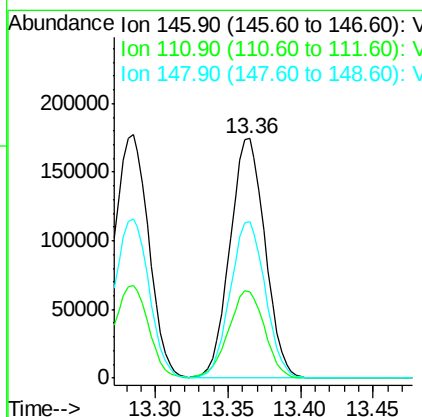
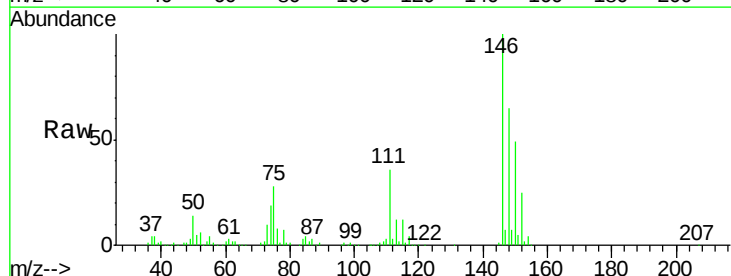
RT: 13.36 min Scan# 3605

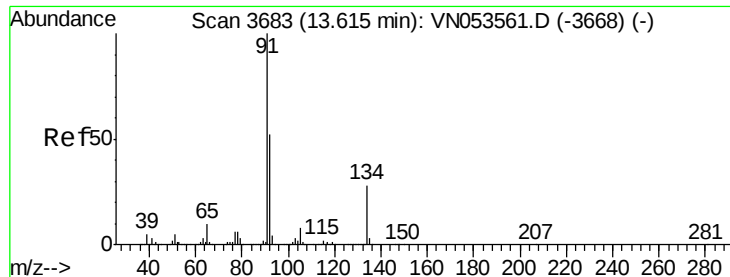
Delta R.T. 0.00 min

Lab File: VN053688.D

Acq: 8 Feb 2019 18:12

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	293980		
111	37.6	18.6	55.8	
148	64.9	32.4	97.0	





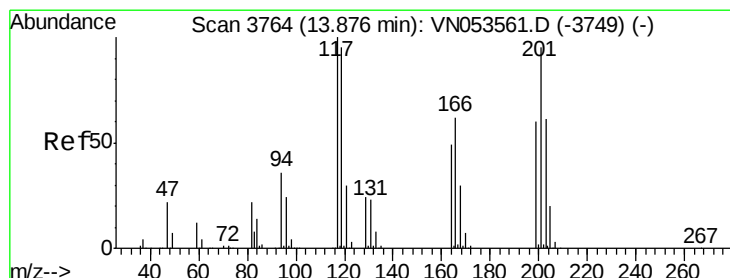
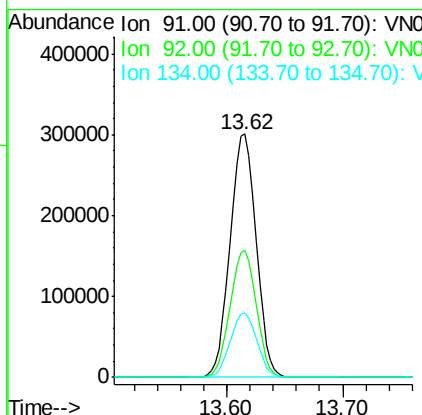
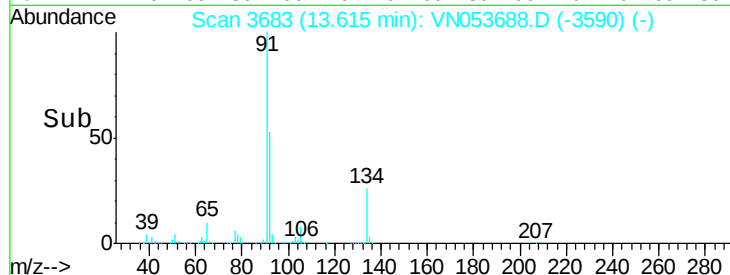
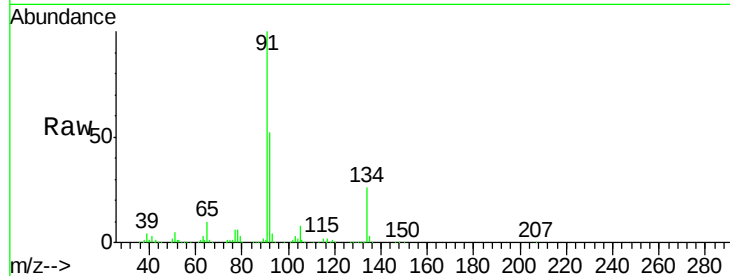
#89
n-Butylbenzene
Concen: 19.503 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN053688.D
Acq: 8 Feb 2019 18:12

Instrument :
MSVOA_N
ClientSampleId :
VN0208WBSD01

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.3	26.3	78.8
134	26.8	13.5	40.5

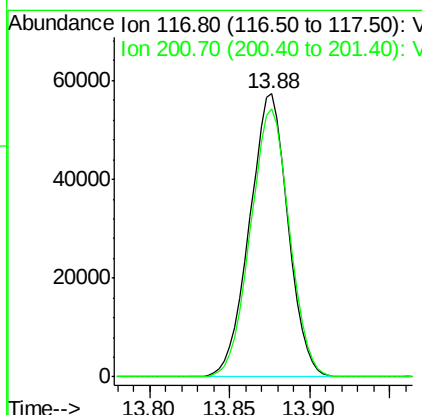
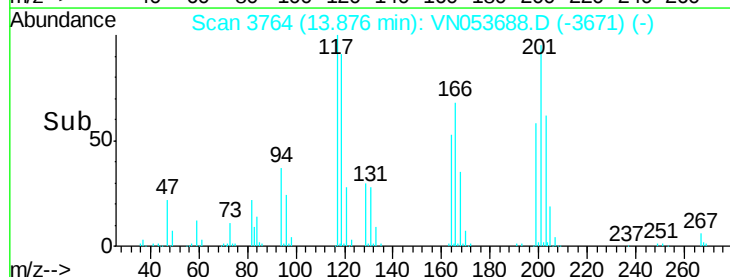
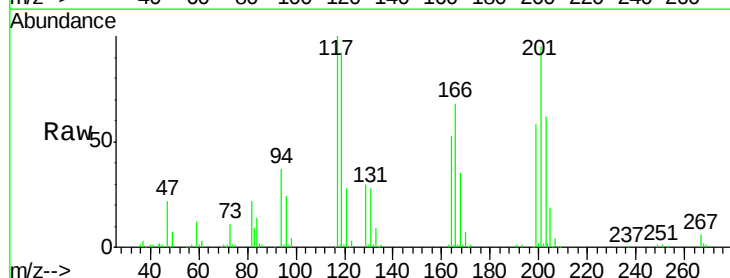
Manual Integrations
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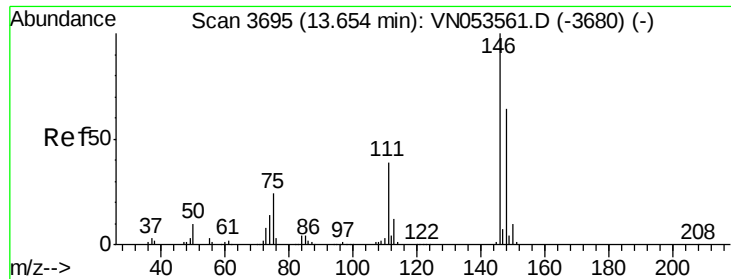
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#90
Hexachloroethane
Concen: 20.747 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. 0.00 min
Lab File: VN053688.D
Acq: 8 Feb 2019 18:12

Tgt Ion	Ratio	Lower	Upper
117	100		
201	96.0	46.8	140.4





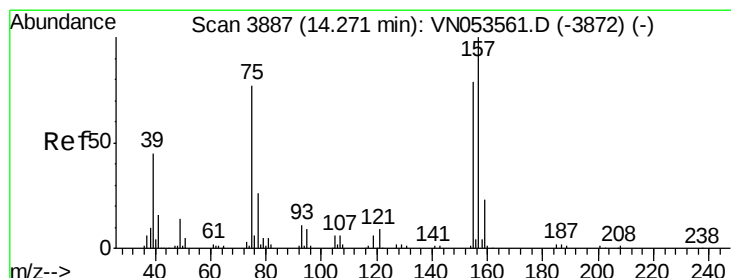
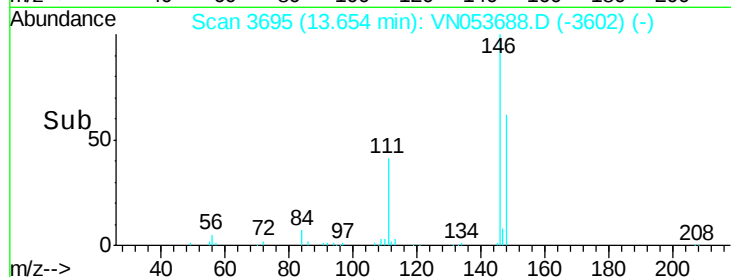
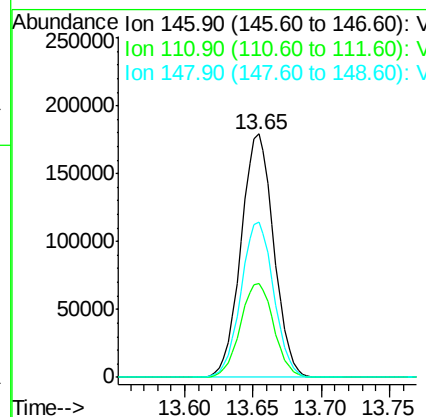
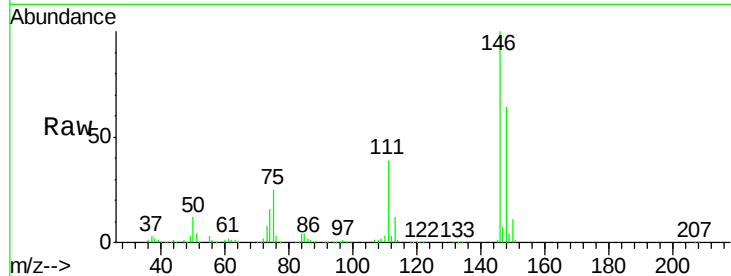
#91
 1,2-Dichlorobenzene
 Concen: 20.354 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN053688.D
 Acq: 8 Feb 2019 18:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0208WBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.4	19.5	58.5
148	63.8	31.9	95.9

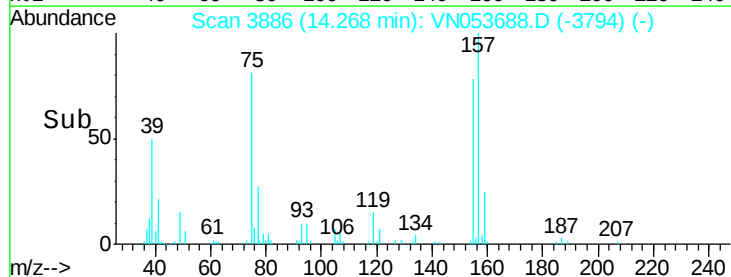
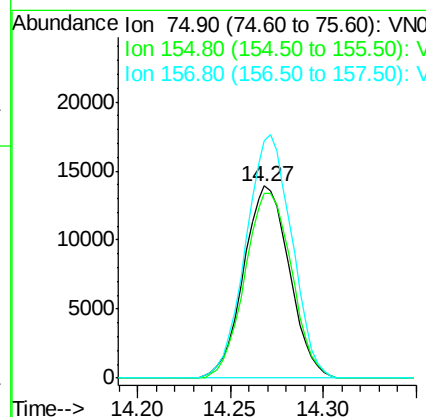
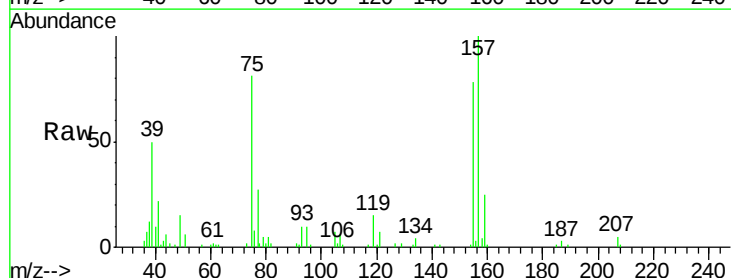
Manual Integrations
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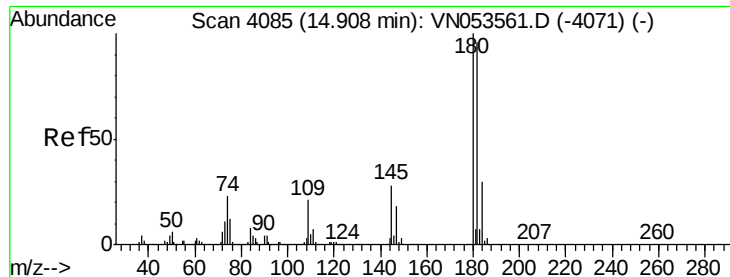
MMDadoda
 2/11/2019 9:49:55 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 22.159 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. -0.00 min
 Lab File: VN053688.D
 Acq: 8 Feb 2019 18:12

Tgt Ion	Ratio	Lower	Upper
75	100		
155	98.4	48.9	146.7
157	126.8	63.7	191.3





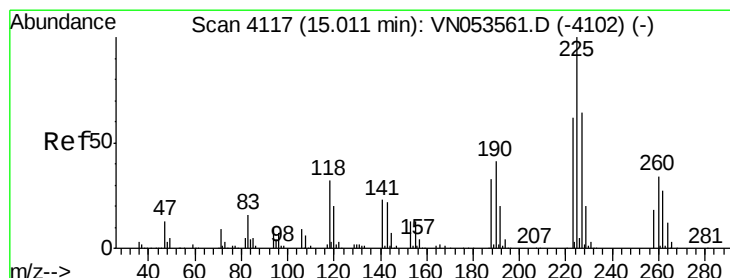
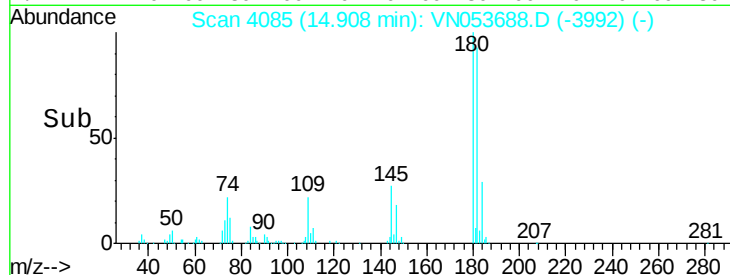
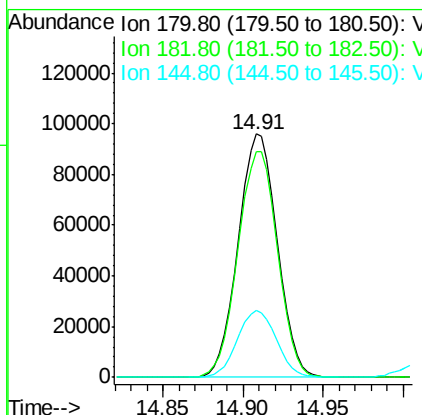
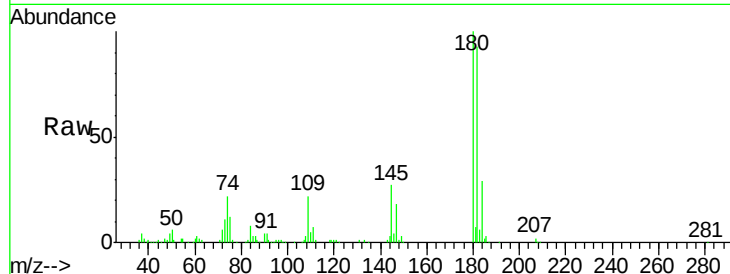
#93
 1,2,4-Trichlorobenzene
 Concen: 18.983 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN053688.D
 Acq: 8 Feb 2019 18:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0208WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	159603		
182	94.4	48.1	144.3	
145	27.6	13.9	41.6	

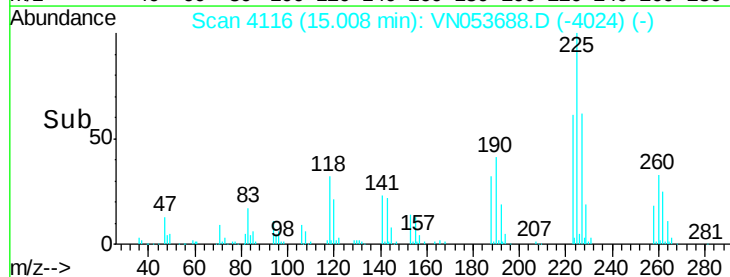
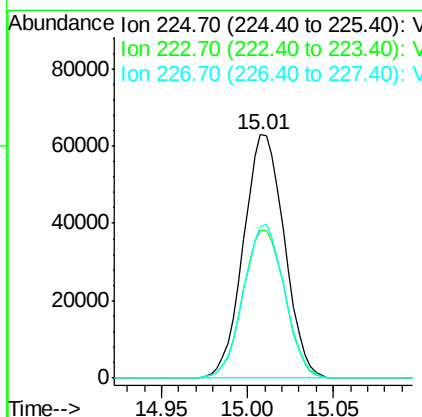
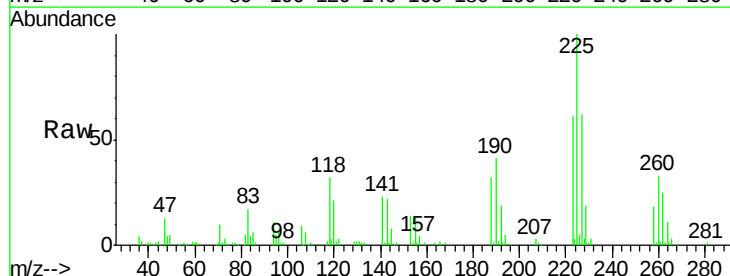
Manual Integrations
 APPROVED

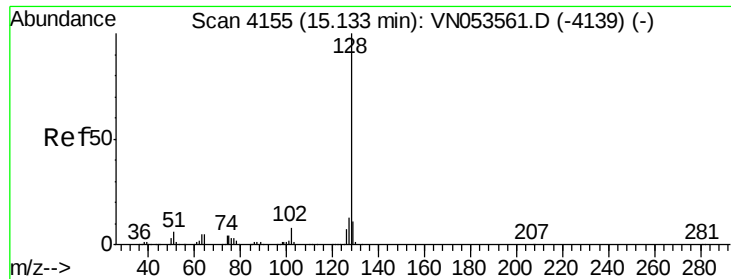
MMDadoda
 2/11/2019 9:49:55 AM



#94
 Hexachlorobutadiene
 Concen: 19.888 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. -0.00 min
 Lab File: VN053688.D
 Acq: 8 Feb 2019 18:12

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	104132		
223	62.1	31.1	93.2	
227	63.5	32.0	96.2	





#95

Naphthalene

Concen: 18.805 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN053688.D

Acq: 8 Feb 2019 18:12

Instrument :

MSVOA_N

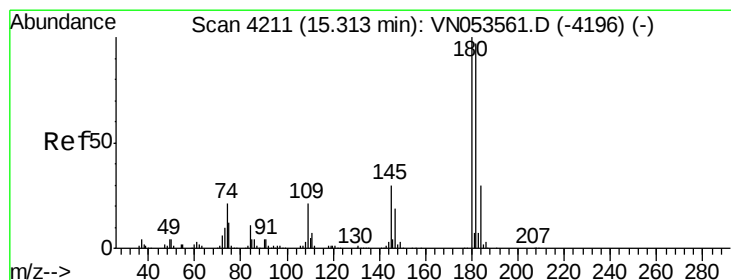
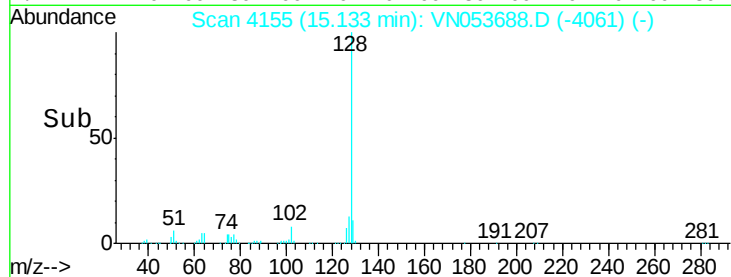
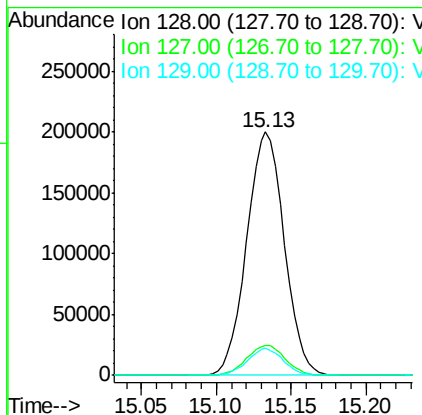
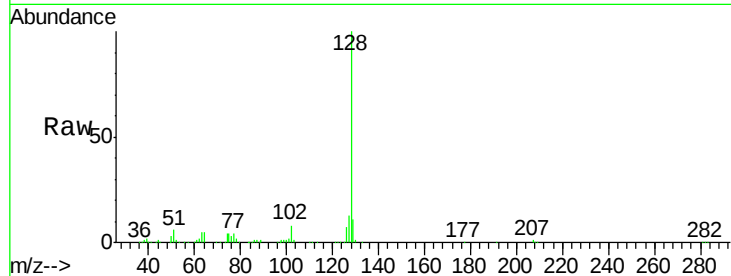
ClientSampleId :

VN0208WBSD01

Tot Ion:	128	Resp:	349225
Ion Ratio	Lower	Upper	
128	100		
127	12.7	10.3	15.5
129	10.6	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
2/11/2019 9:49:55 AM



#96

1,2,3-Trichlorobenzene

Concen: 19.955 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN053688.D

Acq: 8 Feb 2019 18:12

Tgt Ion:	180	Resp:	155667
Ion Ratio	Lower	Upper	
180	100		
182	95.1	47.9	143.8
145	29.2	14.7	44.1

