

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN110518\
 Data File : VN052155.D
 Acq On : 5 Nov 2018 19:00
 Operator : MD\SY
 Sample : VN1105WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1105WBSD01

Manual Integrations
 APPROVED

MMDadoda
 11/6/2018 10:00:20 AM

Quant Time: Nov 06 06:00:14 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110518W.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 05 22:32:25 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	382870	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	667621	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	593859	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	260744	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	236362	52.06	ug/l	0.00
Spiked Amount 50.000			Recovery	=	104.12%	
35) Dibromofluoromethane	7.59	113	206616	49.85	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.70%	
50) Toluene-d8	10.09	98	811054	50.61	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.22%	
62) 4-Bromofluorobenzene	12.40	95	265493	50.47	ug/l	0.00
Spiked Amount 50.000			Recovery	=	100.94%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.85	85	68042	20.380	ug/l	97
3) Chloromethane	2.06	50	90969	20.187	ug/l	96
4) Vinyl Chloride	2.19	62	87276	20.222	ug/l	98
5) Bromomethane	2.57	94	61938	19.196	ug/l	98
6) Chloroethane	2.71	64	55596	20.146	ug/l	100
7) Trichlorofluoromethane	3.02	101	122817	19.590	ug/l	100
8) Diethyl Ether	3.42	74	43766	19.982	ug/l	91
9) 1,1,2-Trichlorotrifluoroet	3.77	101	75093	20.044	ug/l	98
10) Methyl Iodide	3.96	142	100984	19.092	ug/l	100
11) Tert butyl alcohol	4.79	59	20618m	104.468	ug/l	
12) 1,1-Dichloroethene	3.74	96	71107	20.160	ug/l	94
13) Acrolein	3.61	56	21108	124.720	ug/l	96
14) Allyl chloride	4.33	41	117647	19.985	ug/l	98
15) Acrylonitrile	4.99	53	131767	101.982	ug/l	99
16) Acetone	3.82	43	88587	86.124	ug/l	100
17) Carbon Disulfide	4.06	76	191532	19.029	ug/l	100
18) Methyl Acetate	4.33	43	64520	19.739	ug/l	96
19) Methyl tert-butyl Ether	5.05	73	200001	20.604	ug/l	98
20) Methylene Chloride	4.56	84	82062	19.201	ug/l	98
21) trans-1,2-Dichloroethene	5.05	96	76781	19.635	ug/l	91
22) Diisopropyl ether	5.96	45	265471	20.557	ug/l	97
23) Vinyl Acetate	5.90	43	892771	104.589	ug/l	100
24) 1,1-Dichloroethane	5.85	63	148615	20.256	ug/l	100
25) 2-Butanone	6.84	43	151767	95.153	ug/l	95
26) 2,2-Dichloropropane	6.83	77	108264	18.855	ug/l	98
27) cis-1,2-Dichloroethene	6.83	96	92087	20.695	ug/l	95
28) Bromochloromethane	7.19	49	73270	21.107	ug/l	98
29) Tetrahydrofuran	7.22	42	106880	108.304	ug/l	98
30) Chloroform	7.37	83	149700	20.476	ug/l	96
31) Cyclohexane	7.66	56	138688	19.219	ug/l #	93
32) 1,1,1-Trichloroethane	7.57	97	126720	19.675	ug/l	98
36) 1,1-Dichloropropene	7.80	75	113450	19.209	ug/l	99
37) Ethyl Acetate	6.93	43	70440	19.322	ug/l #	93
38) Carbon Tetrachloride	7.78	117	110425	18.701	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	134620	19.246	ug/l	100
40) Benzene	8.04	78	339330	19.545	ug/l	97
41) Methacrylonitrile	7.18	41	37716	19.366	ug/l	97
42) 1,2-Dichloroethane	8.13	62	107438	19.250	ug/l	99
43) Isopropyl Acetate	8.17	43	130691	19.394	ug/l #	90
44) Trichloroethene	8.83	130	88184	19.184	ug/l	100
45) 1,2-Dichloropropane	9.12	63	90024	19.579	ug/l	96
46) Dibromomethane	9.21	93	54914	18.780	ug/l	99
47) Bromodichloromethane	9.40	83	108880	19.092	ug/l	98
48) Methyl methacrylate	9.20	41	65672	20.248	ug/l	96
49) 1,4-Dioxane	9.20	88	12203	433.789	ug/l	95
51) 4-Methyl-2-Pentanone	9.99	43	358406	100.673	ug/l	100
52) Toluene	10.16	92	210052	20.063	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	106272	18.996	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	128822	19.678	ug/l	98
55) 1,1,2-Trichloroethane	10.56	97	73667	19.957	ug/l	97
56) Ethyl methacrylate	10.43	69	96192	19.993	ug/l	99
57) 1,3-Dichloropropane	10.71	76	125481	19.296	ug/l	97
58) 2-Chloroethyl Vinyl ether	9.70	63	272286	105.156	ug/l	99
59) 2-Hexanone	10.75	43	241070	97.273	ug/l	99
60) Dibromochloromethane	10.90	129	79232	18.875	ug/l	99
61) 1,2-Dibromoethane	11.01	107	74840	19.973	ug/l	100
64) Tetrachloroethene	10.63	164	75494	19.622	ug/l	97
65) Chlorobenzene	11.43	112	236377	19.528	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.51	131	82636	20.329	ug/l	99
67) Ethyl Benzene	11.51	91	399097	19.851	ug/l	100
68) m/p-Xylenes	11.62	106	308215	39.732	ug/l	98
69) o-Xylene	11.95	106	149124	19.822	ug/l	99
70) Styrene	11.96	104	233688	19.622	ug/l	99
71) Bromoform	12.13	173	44976	18.461	ug/l #	100
73) Isopropylbenzene	12.25	105	392616	19.915	ug/l	99
74) N-amyl acetate	12.07	43	116163	19.856	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	88072	20.409	ug/l	98
76) 1,2,3-Trichloropropane	12.55	75	85835m	20.918	ug/l	
77) Bromobenzene	12.53	156	93402	19.868	ug/l	97
78) n-propylbenzene	12.59	91	442665	19.647	ug/l	98
79) 2-Chlorotoluene	12.67	91	257023	19.453	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	312860	19.605	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	20178	17.607	ug/l	88
82) 4-Chlorotoluene	12.77	91	260701	19.632	ug/l	100
83) tert-Butylbenzene	12.99	119	274355	19.470	ug/l	98
84) 1,2,4-Trimethylbenzene	13.04	105	316054	19.896	ug/l	97
85) sec-Butylbenzene	13.17	105	373628	19.609	ug/l	100
86) p-Isopropyltoluene	13.29	119	319199	19.904	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	162354	19.542	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	160517	19.330	ug/l	99
89) n-Butylbenzene	13.61	91	259294	18.672	ug/l	97
90) Hexachloroethane	13.88	117	51373	19.007	ug/l	100
91) 1,2-Dichlorobenzene	13.65	146	152327	19.537	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.27	75	11998	21.062	ug/l	87

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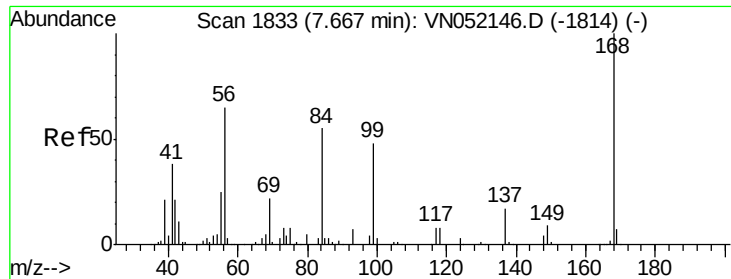
Manual Integrations
APPROVED

MMDadoda
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QLast Update : Mon Nov 05 22:32:25 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	63672	18.778	ug/l	97
94) Hexachlorobutadiene	15.01	225	35471	19.149	ug/l	97
95) Naphthalene	15.13	128	145588	18.234	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	55766	18.731	ug/l	97

(#) = 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: VN052155.D

Acq: 5 Nov 2018 19:00

Instrument :

MSVOA_N

ClientSampleId :

VN1105WBSD01

Tot Ion:168 Resp: 382870

Ion Ratio Lower Upper

168 100

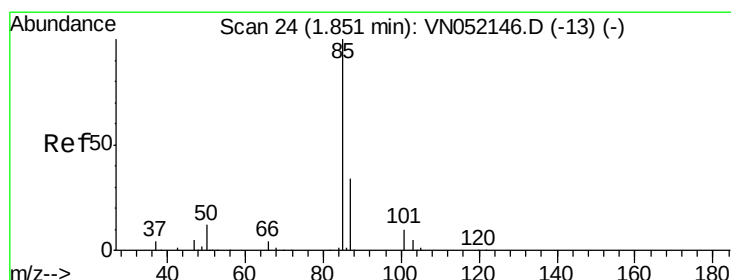
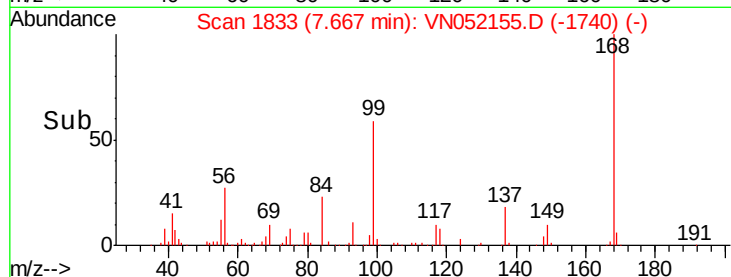
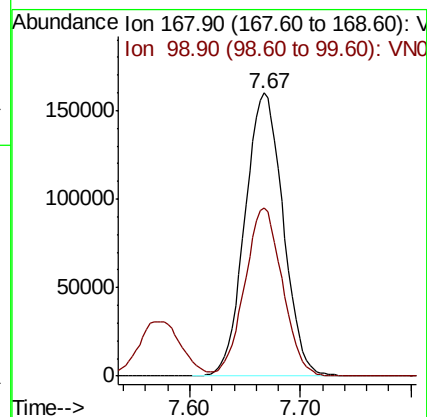
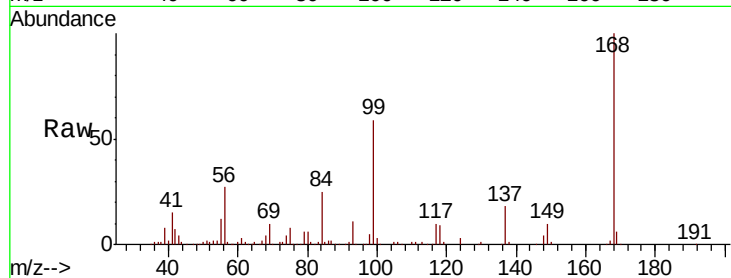
99 59.0 45.4 68.2

Manual Integrations

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11/6/2018 10:00:20 AM



#2

Dichlorodifluoromethane

Concen: 20.380 ug/l

RT: 1.85 min Scan# 24

Delta R.T. -0.00 min

Lab File: VN052155.D

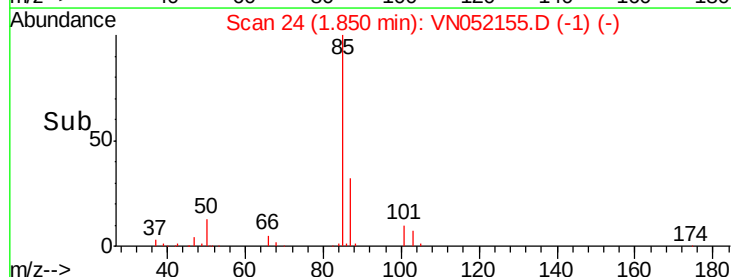
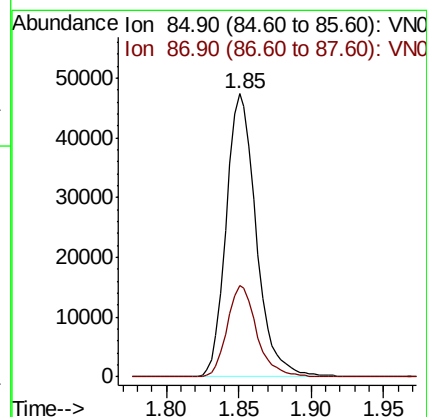
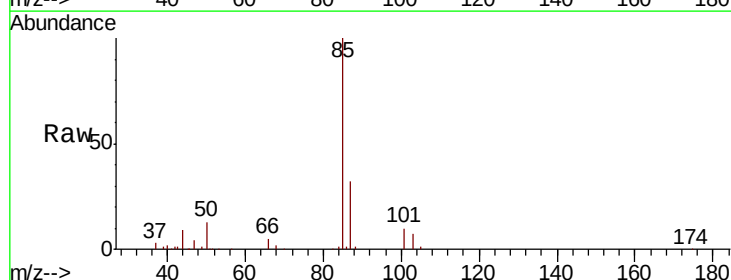
Acq: 5 Nov 2018 19:00

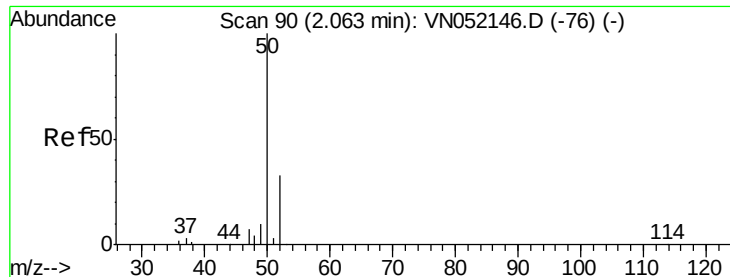
Tgt Ion: 85 Resp: 68042

Ion Ratio Lower Upper

85 100

87 32.2 17.0 51.0





#3

Chloromethane

Concen: 20.187 ug/l

RT: 2.06 min Scan# 90

Delta R.T. -0.00 min

Lab File: VN052155.D

Acq: 5 Nov 2018 19:00

Instrument :

MSVOA_N

ClientSampleId :

VN1105WBSD01

Tot Ion: 50 Resp: 90969

Ion Ratio Lower Upper

50 100

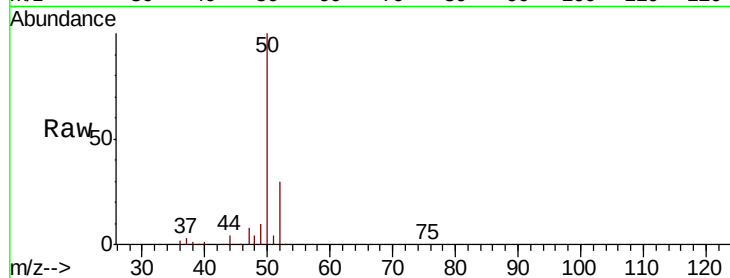
52 30.4 26.2 39.4

Manual Integrations

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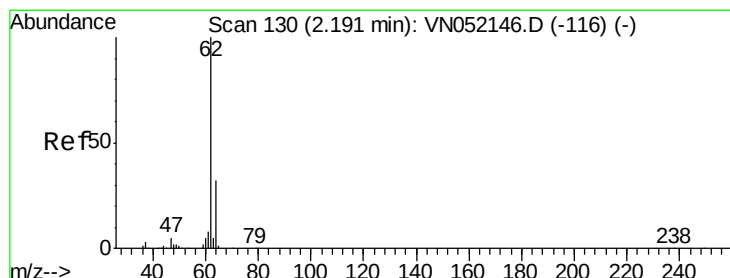
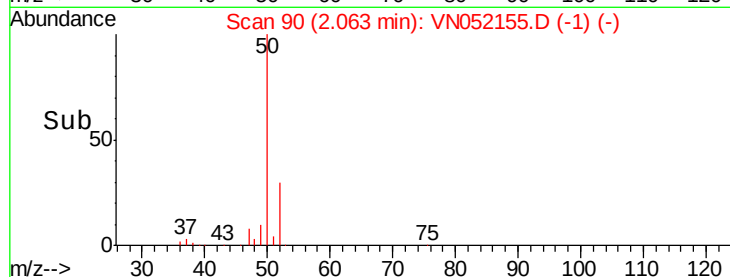
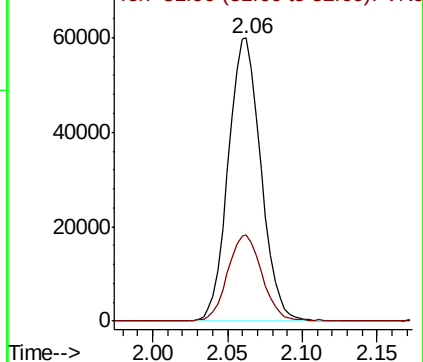
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11/6/2018 10:00:20 AM



Abundance Ion 49.90 (49.60 to 50.60): VNC

Ion 51.90 (51.60 to 52.60): VNC



#4

Vinyl Chloride

Concen: 20.222 ug/l

RT: 2.19 min Scan# 129

Delta R.T. -0.00 min

Lab File: VN052155.D

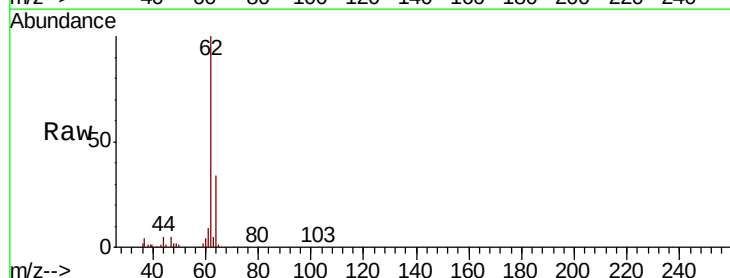
Acq: 5 Nov 2018 19:00

Tgt Ion: 62 Resp: 87276

Ion Ratio Lower Upper

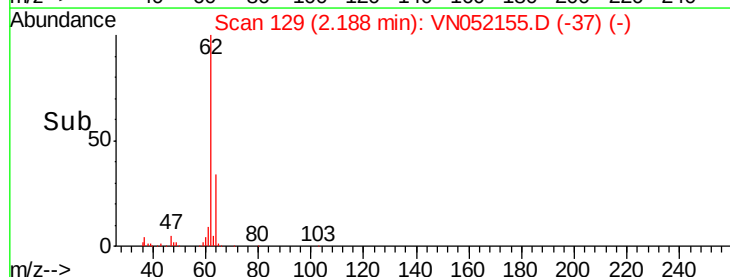
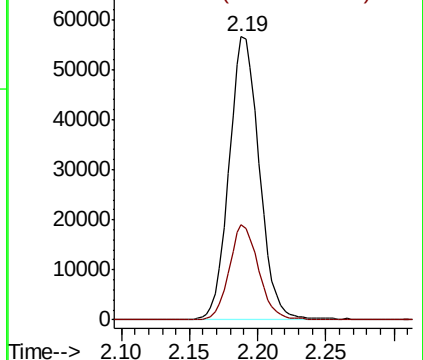
62 100

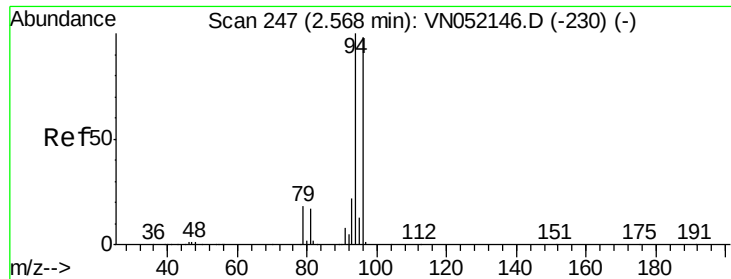
64 33.5 25.8 38.6



Abundance Ion 61.90 (61.60 to 62.60): VNC

Ion 63.90 (63.60 to 64.60): VNC





#5

Bromomethane

Concen: 19.196 ug/l

RT: 2.57 min Scan# 248

Delta R.T. 0.00 min

Lab File: VN052155.D

Acq: 5 Nov 2018 19:00

Instrument :

MSVOA_N

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VN1105WBSD01

Tot Ion: 94 Resp: 61938

Ion Ratio Lower Upper

94 100

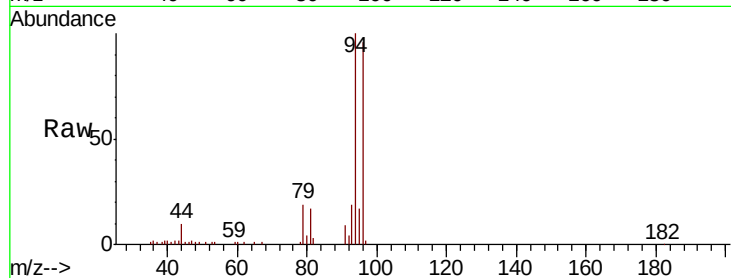
96 96.4 78.3 117.5

Manual Integrations

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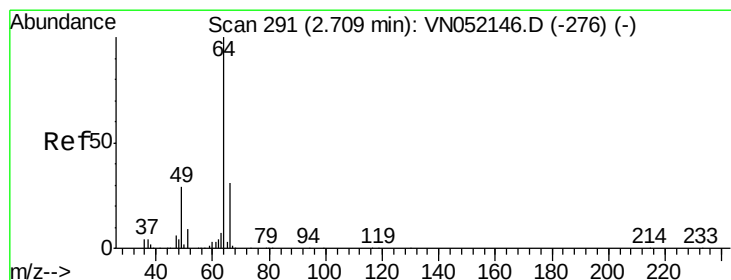
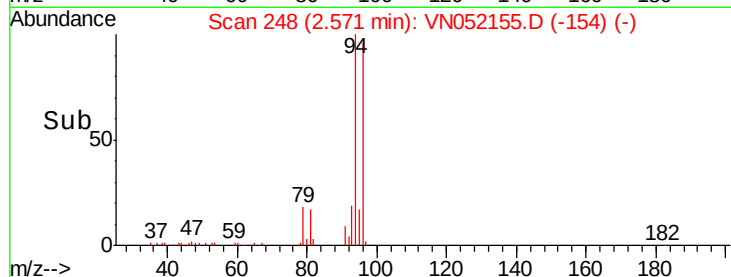
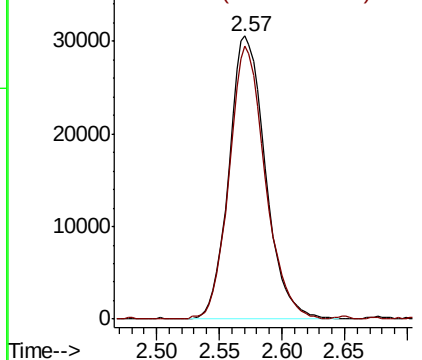
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11/6/2018 10:00:20 AM



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO



#6

Chloroethane

Concen: 20.146 ug/l

RT: 2.71 min Scan# 291

Delta R.T. -0.00 min

Lab File: VN052155.D

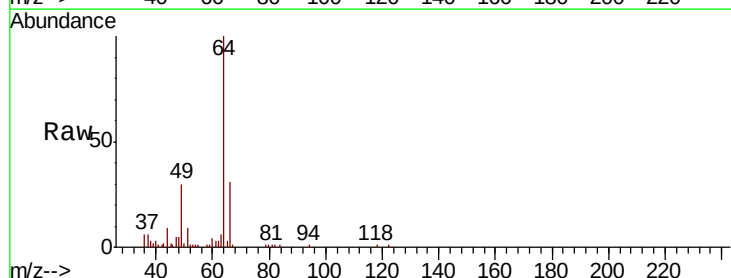
Acq: 5 Nov 2018 19:00

Tgt Ion: 64 Resp: 55596

Ion Ratio Lower Upper

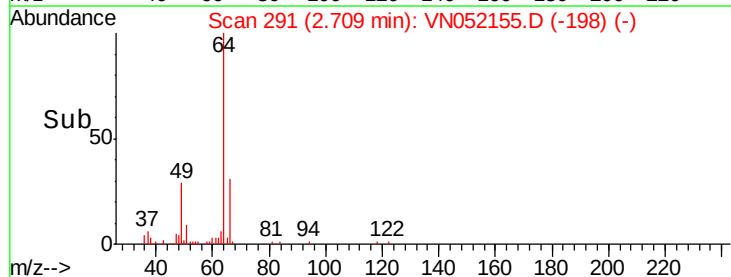
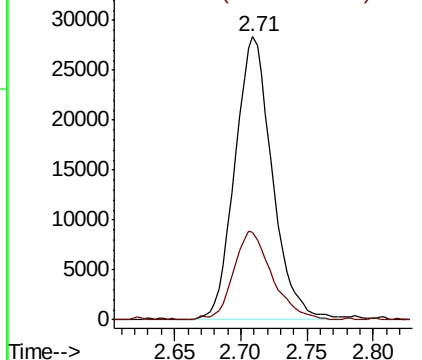
64 100

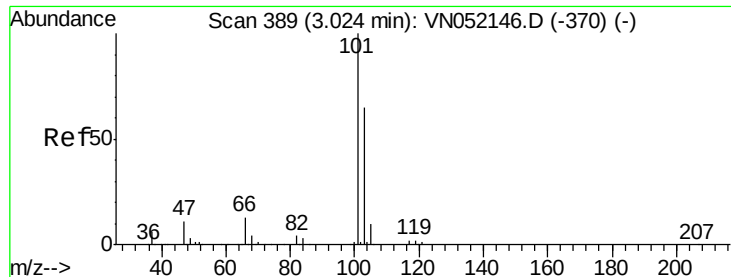
66 31.0 24.7 37.1



Abundance Ion 63.90 (63.60 to 64.60): VNO

Ion 65.90 (65.60 to 66.60): VNO





#7

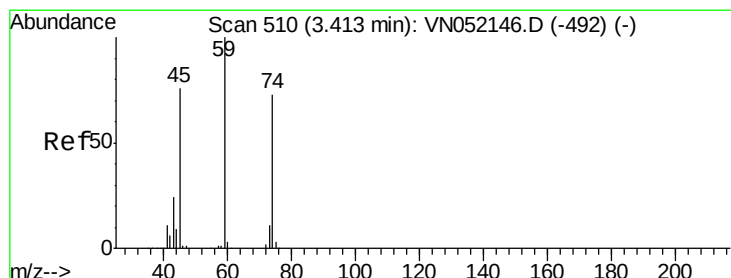
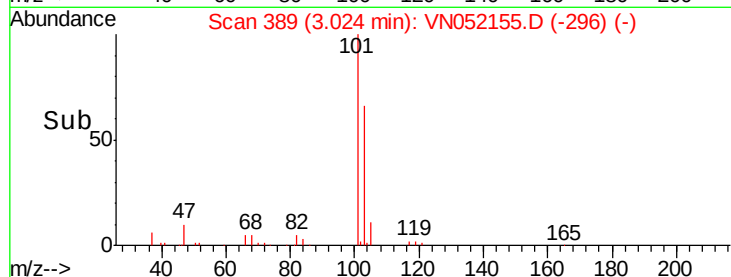
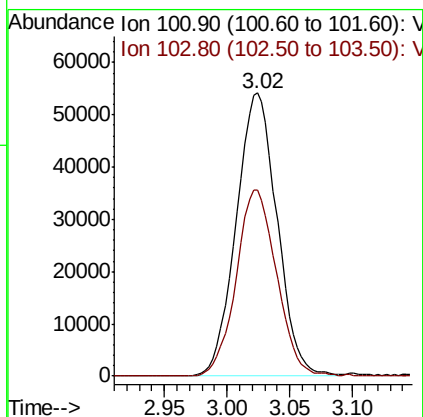
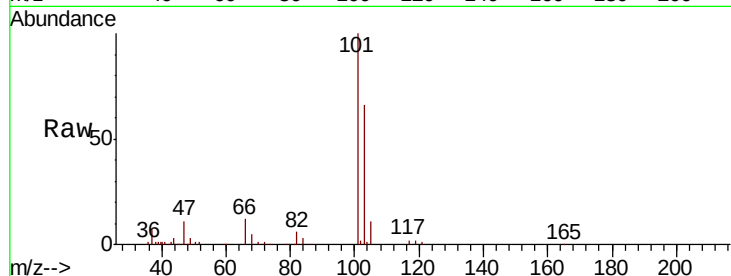
Trichlorofluoromethane
 Concen: 19.590 ug/l
 RT: 3.02 min Scan# 389
 Delta R.T. -0.00 min
 Lab File: VN052155.D
 Acq: 5 Nov 2018 19:00

Instrument :
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Tot Ion	Ion	Ratio	Resp	Lower	Upper
101	100		122817		
103	65.5	52.2	78.4		

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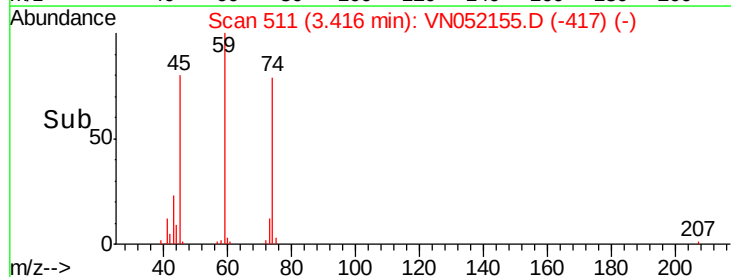
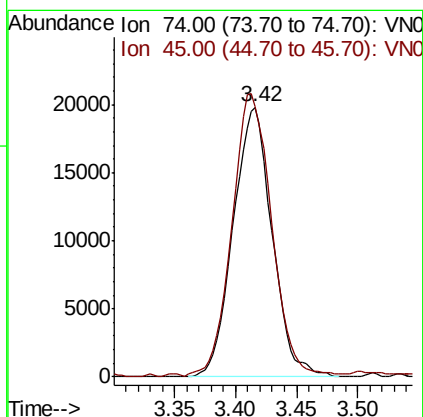
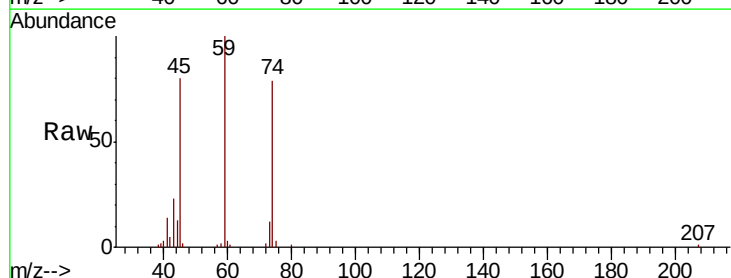
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 11/6/2018 10:00:20 AM

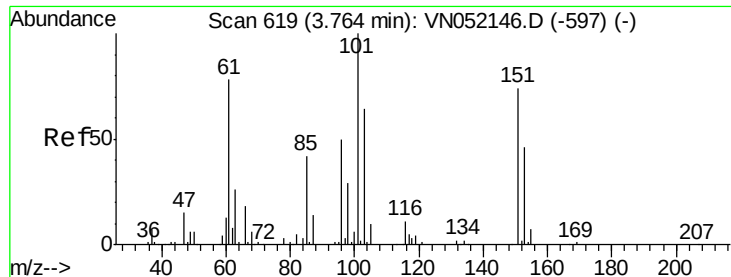


#8

Diethyl Ether
 Concen: 19.982 ug/l
 RT: 3.42 min Scan# 511
 Delta R.T. 0.00 min
 Lab File: VN052155.D
 Acq: 5 Nov 2018 19:00

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
74	100		43766		
45	107.6	49.1	147.3		





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.044 ug/l

RT: 3.77 min Scan# 620

Delta R.T. 0.00 min

Lab File: VN052155.D

Acq: 5 Nov 2018 19:00

Instrument :

MSVOA_N

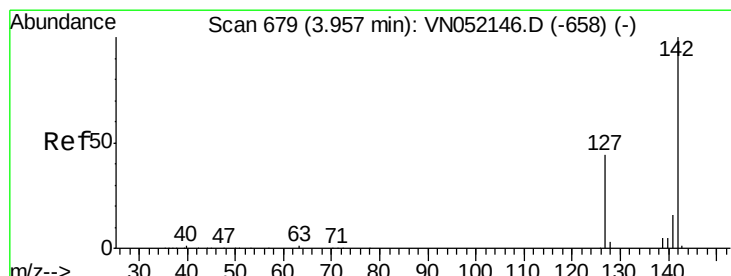
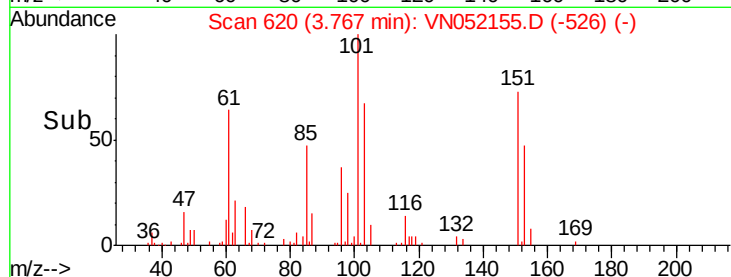
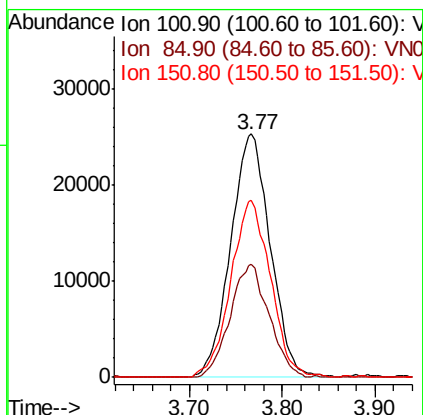
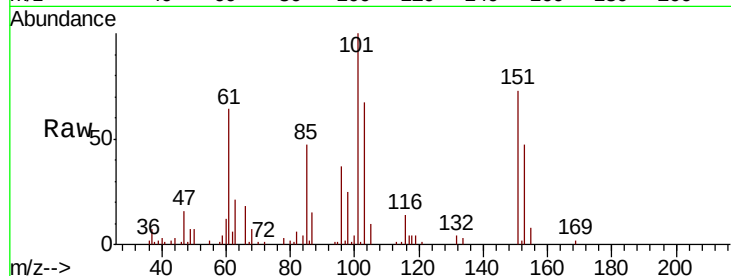
ClientSampleId :

VN1105WBSD01

Tot Ion:	101	Resp:	75093
Ion Ratio	Lower	Upper	
101	100		
85	45.6	36.1	54.1
151	72.9	59.7	89.5

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#10

Methyl Iodide

Concen: 19.092 ug/l

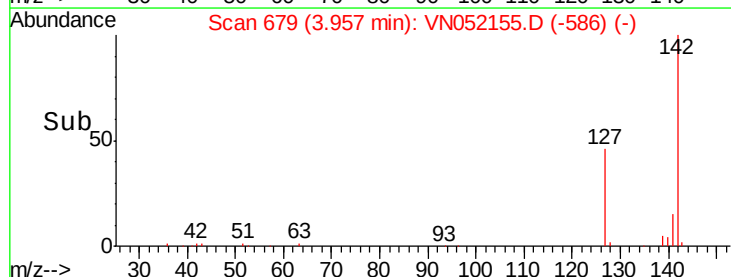
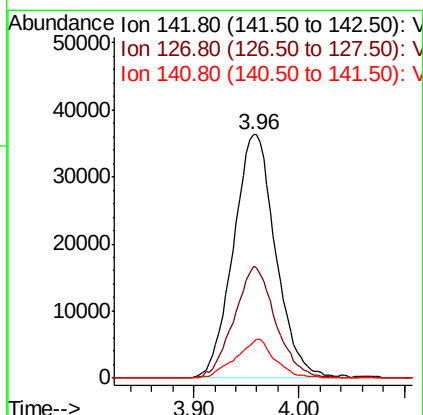
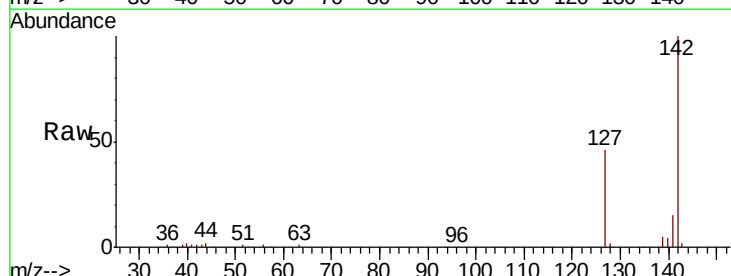
RT: 3.96 min Scan# 679

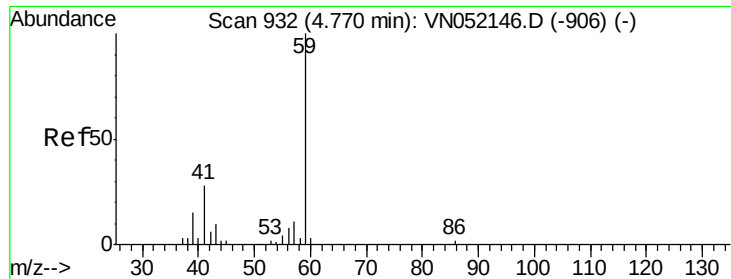
Delta R.T. -0.00 min

Lab File: VN052155.D

Acq: 5 Nov 2018 19:00

Tgt Ion:	142	Resp:	100984
Ion Ratio	Lower	Upper	
142	100		
127	44.9	36.0	54.0
141	14.8	11.8	17.6





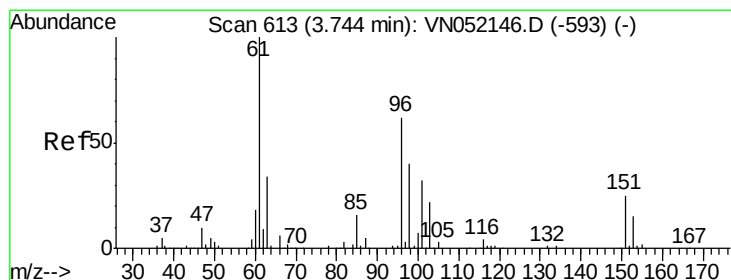
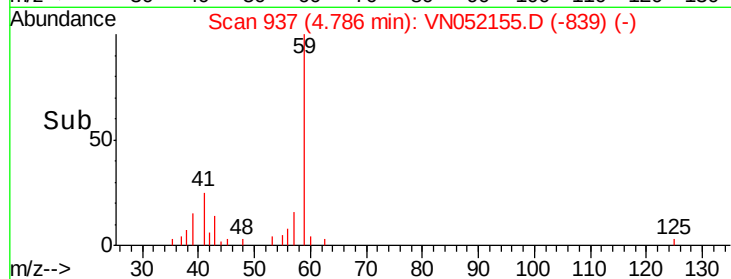
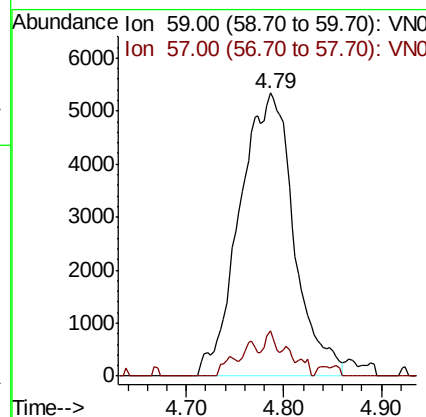
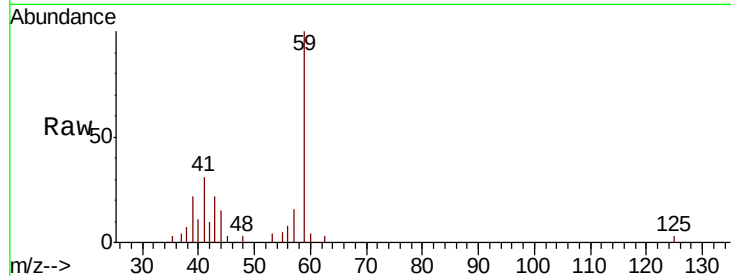
#11
Tert butyl alcohol
Concen: 104.468 ug/l m
RT: 4.79 min Scan# 937
Delta R.T. 0.02 min
Lab File: VN052155.D
Acq: 5 Nov 2018 19:00

Instrument :
MSVOA_N
ClientSampleId :
VN1105WBSD01

Tot Ion: 59 Resp: 20618
Ion Ratio Lower Upper
59 100
57 0.0 5.7 8.5#

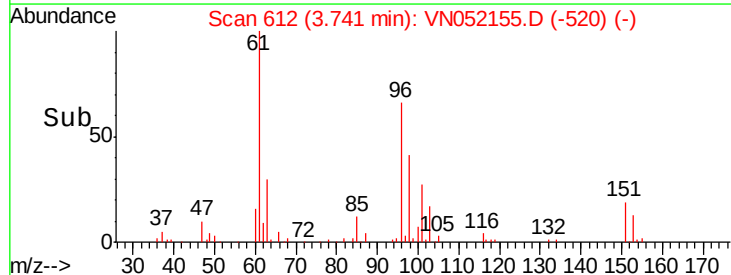
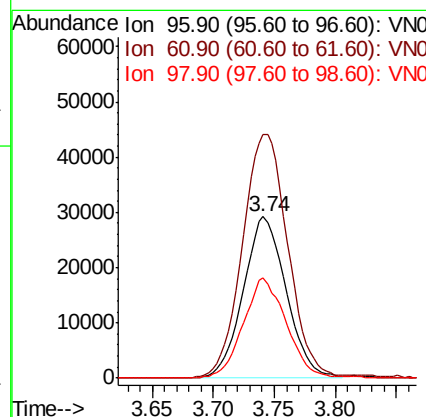
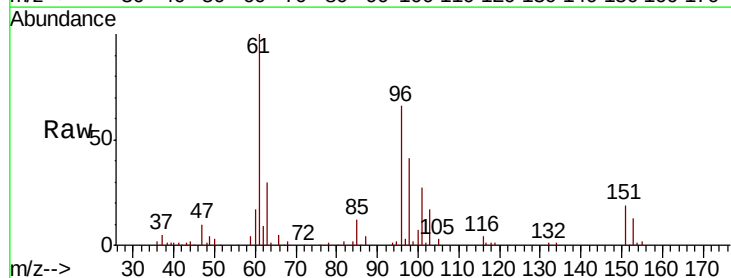
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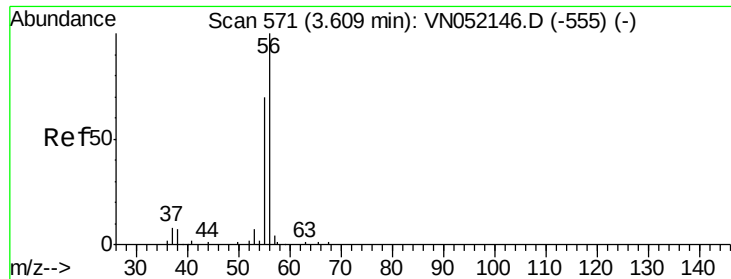
MMDadoda
11/6/2018 10:00:20 AM



#12
1,1-Dichloroethene
Concen: 20.160 ug/l
RT: 3.74 min Scan# 612
Delta R.T. -0.00 min
Lab File: VN052155.D
Acq: 5 Nov 2018 19:00

Tgt Ion: 96 Resp: 71107
Ion Ratio Lower Upper
96 100
61 149.9 128.4 192.6
98 62.3 50.9 76.3





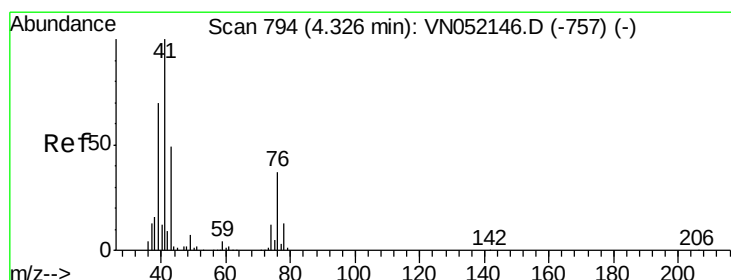
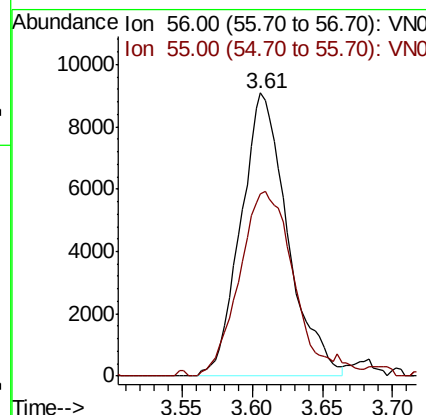
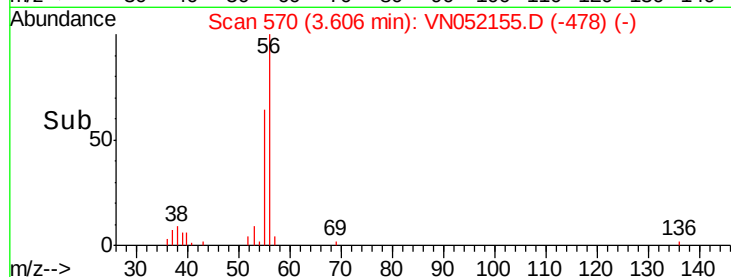
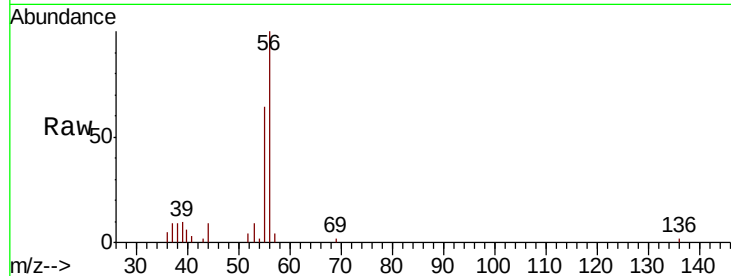
#13
Acrolein
Concen: 124.720 ug/l
RT: 3.61 min Scan# 570
Delta R.T. -0.00 min
Lab File: VN052155.D
Acq: 5 Nov 2018 19:00

Instrument :
MSVOA_N
ClientSampleId :
VN1105WBSD01

Tot Ion	Ratio	Lower	Upper
56	100		
55	74.3	56.6	84.8

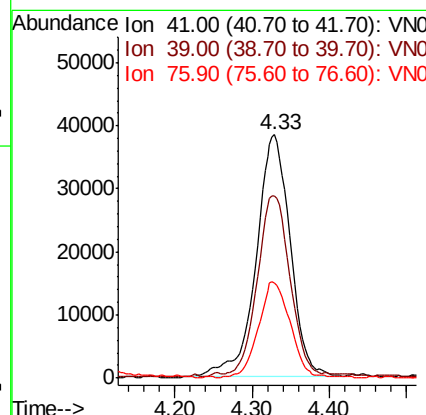
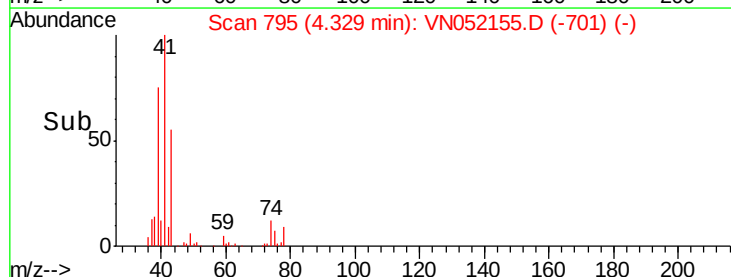
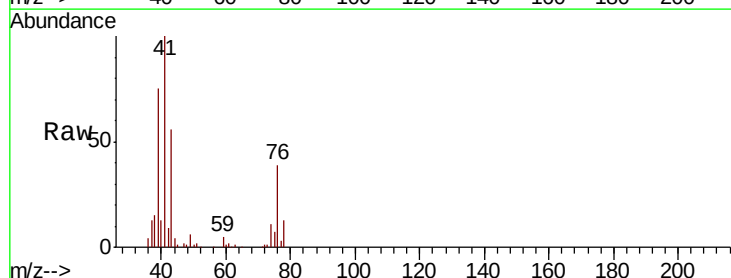
Manual Integrations
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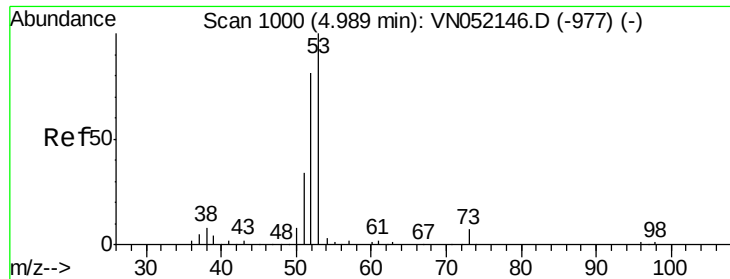
MMDadoda
11/6/2018 10:00:20 AM



#14
Allyl chloride
Concen: 19.985 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.00 min
Lab File: VN052155.D
Acq: 5 Nov 2018 19:00

Tgt Ion	Ratio	Lower	Upper
41	100		
39	69.0	55.3	82.9
76	37.4	27.8	41.8





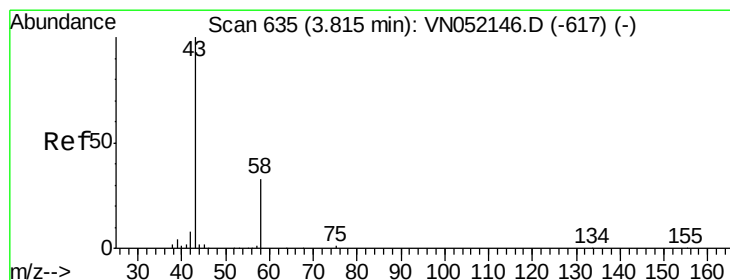
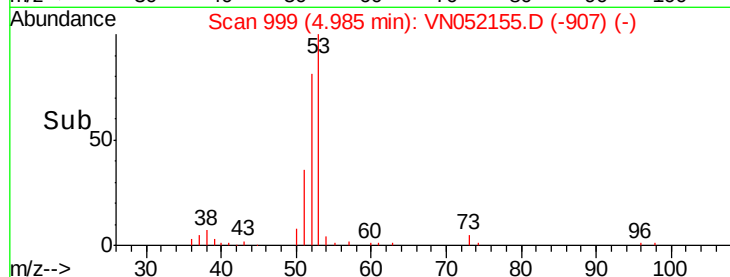
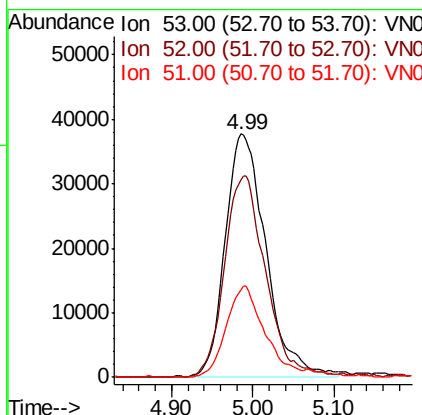
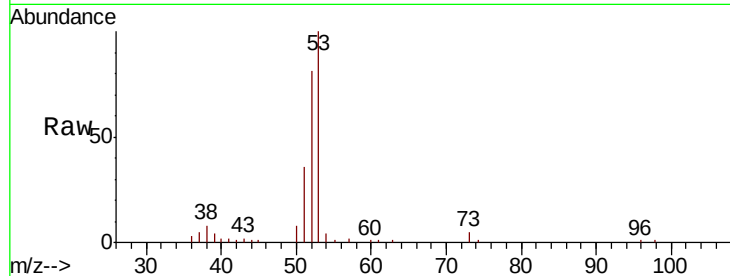
#15
 Acrylonitrile
 Concen: 101.982 ug/l
 RT: 4.99 min Scan# 999
 Delta R.T. -0.00 min
 Lab File: VN052155.D
 Acq: 5 Nov 2018 19:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1105WBSD01

Tot Ion	Ratio	Lower	Upper
53	100		
52	83.4	66.5	99.7
51	35.4	29.2	43.8

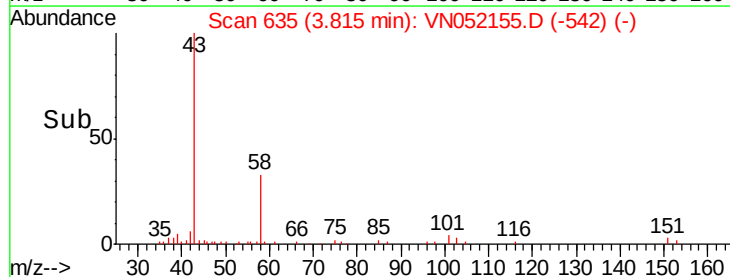
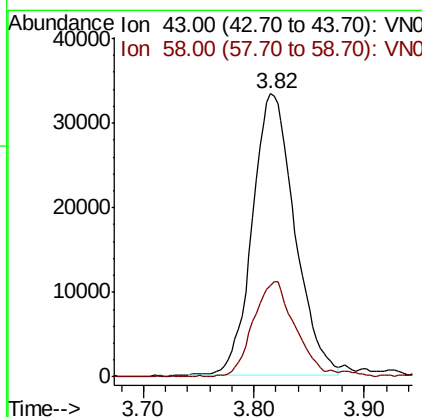
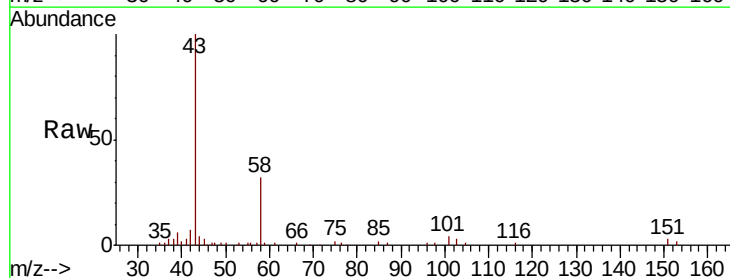
Manual Integrations
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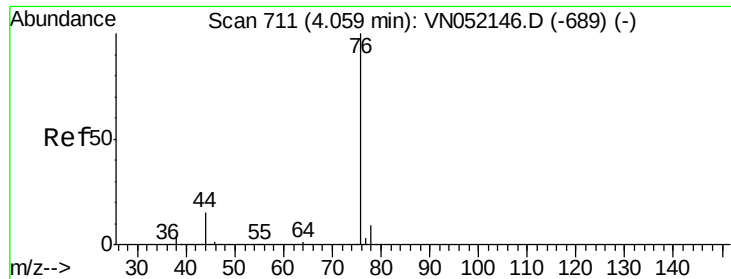
MMDadoda
 11/6/2018 10:00:20 AM



#16
 Acetone
 Concen: 86.124 ug/l
 RT: 3.82 min Scan# 635
 Delta R.T. -0.00 min
 Lab File: VN052155.D
 Acq: 5 Nov 2018 19:00

Tgt Ion	Ratio	Lower	Upper
43	100		
58	32.5	26.2	39.2





#17

Carbon Disulfide

Concen: 19.029 ug/l

RT: 4.06 min Scan# 710

Delta R.T. -0.00 min

Lab File: VN052155.D

Acq: 5 Nov 2018 19:00

Instrument :

MSVOA_N

ClientSampleId :

VN1105WBSD01

Tot Ion: 76 Resp: 191532

Ion Ratio Lower Upper

76 100

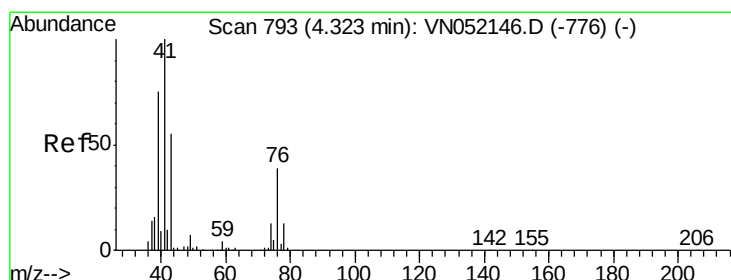
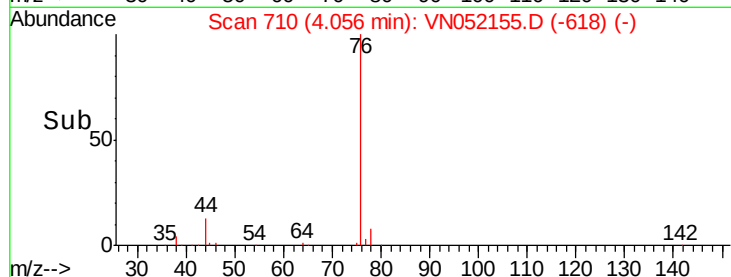
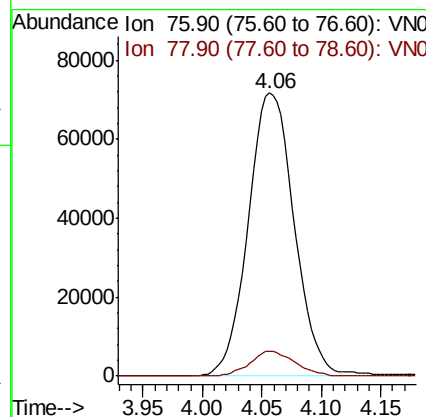
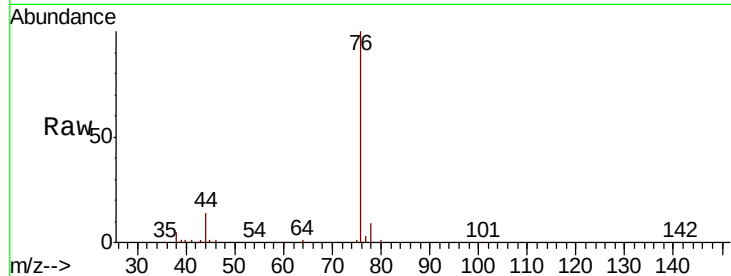
78 9.0 7.0 10.6

Manual Integrations

APPROVED

MMDadoda

11/6/2018 10:00:20 AM



#18

Methyl Acetate

Concen: 19.739 ug/l

RT: 4.33 min Scan# 794

Delta R.T. 0.00 min

Lab File: VN052155.D

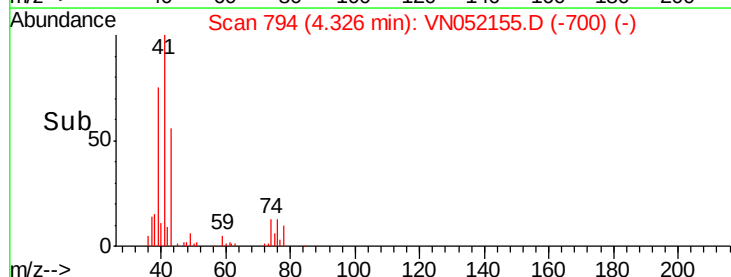
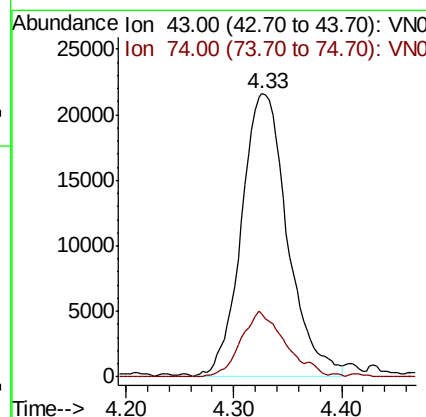
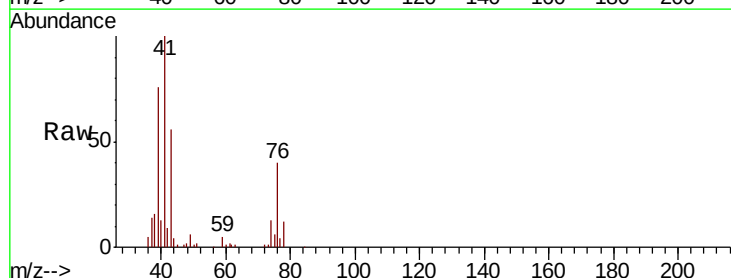
Acq: 5 Nov 2018 19:00

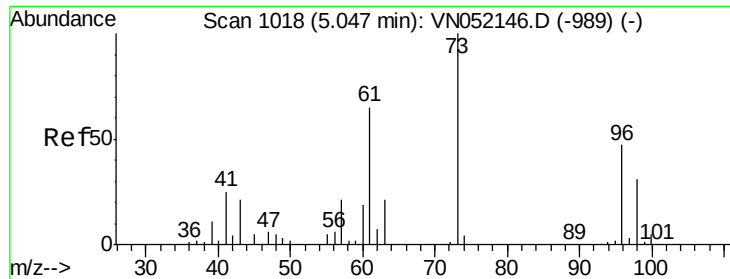
Tgt Ion: 43 Resp: 64520

Ion Ratio Lower Upper

43 100

74 22.1 19.3 28.9





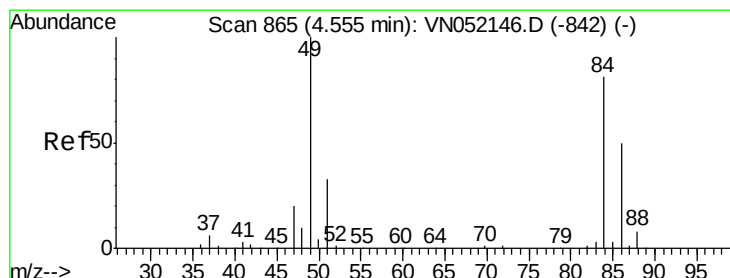
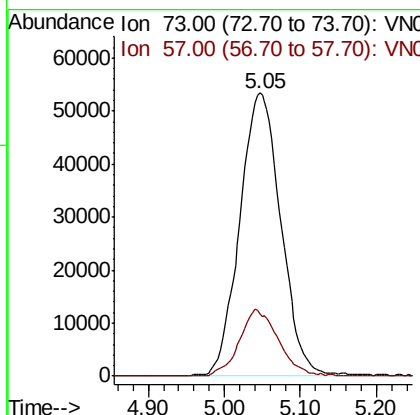
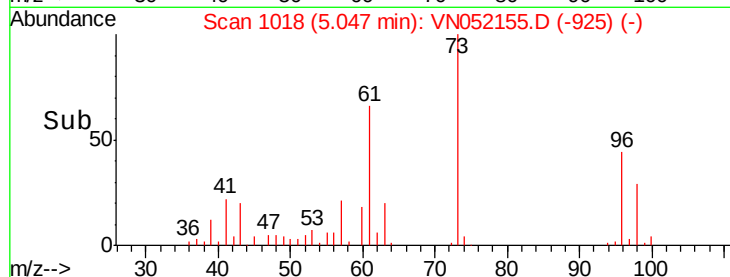
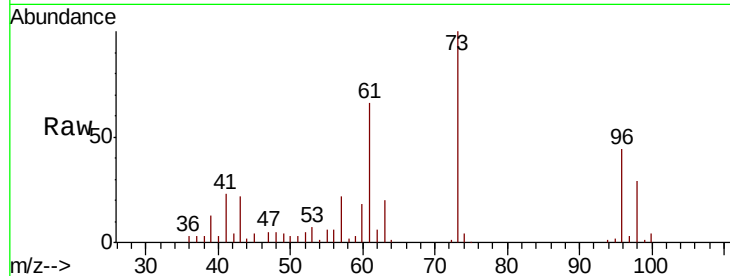
#19
Methvl tert-butyl Ether
Concen: 20.604 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. -0.00 min
Lab File: VN052155.D
Acq: 5 Nov 2018 19:00

Instrument :
MSVOA_N
ClientSampleId :
VN1105WBSD01

Tot Ion	Ratio	Lower	Upper
73	100		
57	22.0	16.8	25.2

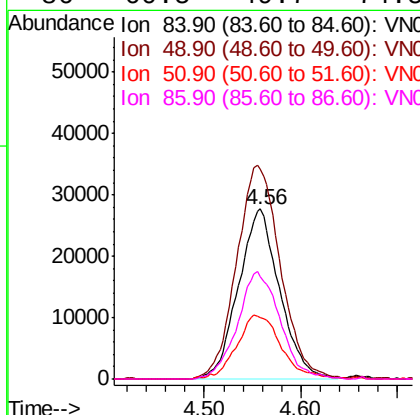
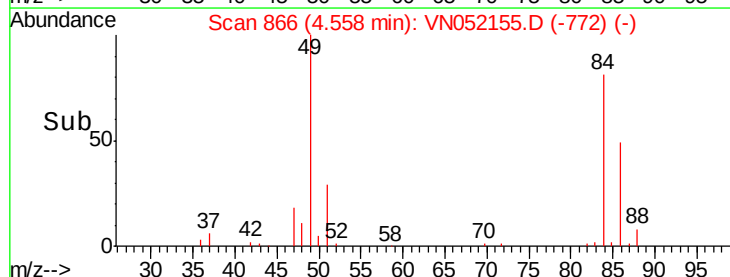
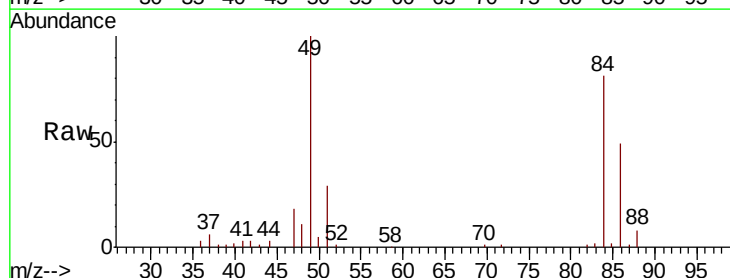
Manual Integrations
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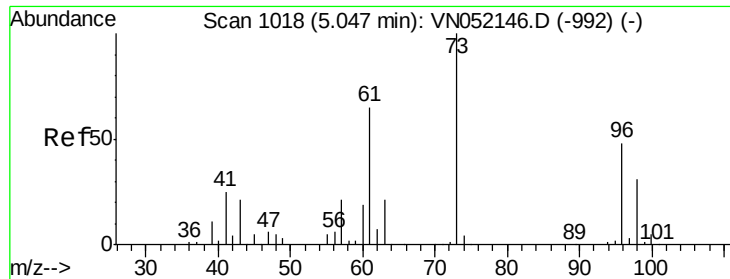
MMDadoda
11/6/2018 10:00:20 AM



#20
Methylene Chloride
Concen: 19.201 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN052155.D
Acq: 5 Nov 2018 19:00

Tgt Ion	Ratio	Lower	Upper
84	100		
49	123.0	98.4	147.6
51	36.1	32.5	48.7
86	60.5	49.7	74.5





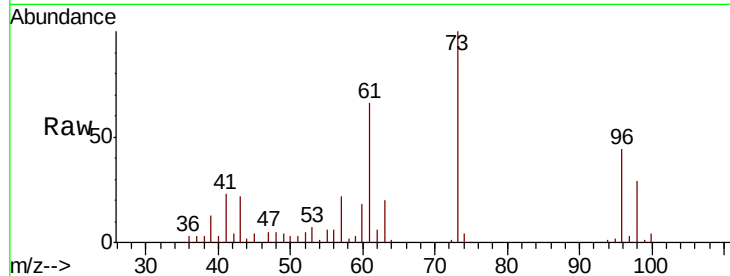
#21
trans-1,2-Dichloroethene
Concen: 19.635 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. -0.00 min
Lab File: VN052155.D
Acq: 5 Nov 2018 19:00

Instrument :
MSVOA_N
ClientSampleId :
VN1105WBSD01

Tot Ion	Ratio	Lower	Upper
96	100		
61	152.3	109.6	164.4
98	66.8	52.0	78.0

Manual Integrations
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11/6/2018 10:00:20 AM

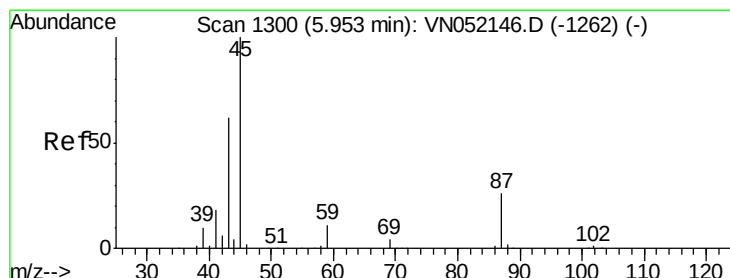
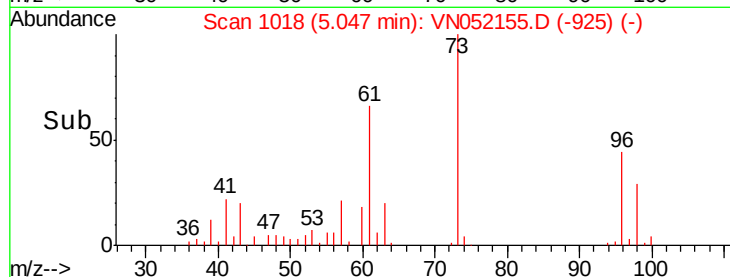
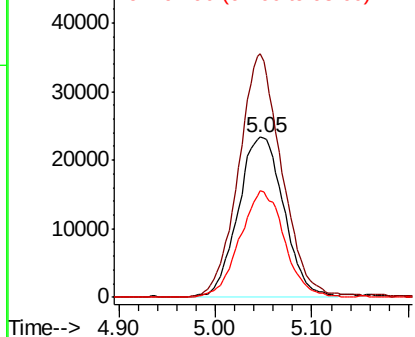


Abundance

Ion 95.90 (95.60 to 96.60): VNC

Ion 60.90 (60.60 to 61.60): VNC

Ion 97.90 (97.60 to 98.60): VNC



#22
Diisopropyl ether
Concen: 20.557 ug/l
RT: 5.96 min Scan# 1301
Delta R.T. 0.00 min
Lab File: VN052155.D
Acq: 5 Nov 2018 19:00

Tgt Ion	Ratio	Lower	Upper
45	100		
43	59.7	49.8	74.6
87	25.2	21.1	31.7
59	11.1	8.9	13.3

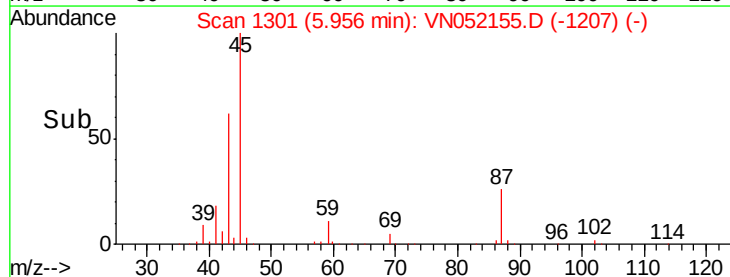
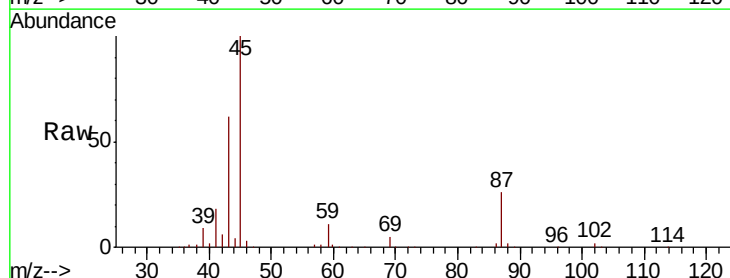
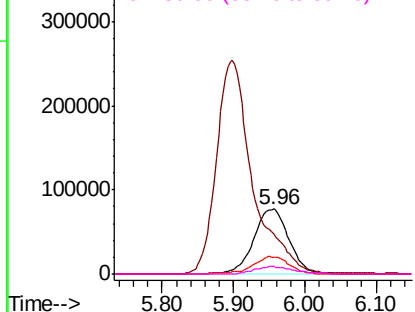
Abundance

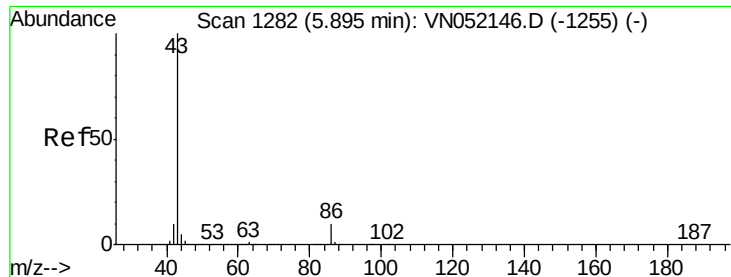
Ion 45.00 (44.70 to 45.70): VNC

Ion 43.00 (42.70 to 43.70): VNC

Ion 87.00 (86.70 to 87.70): VNC

Ion 59.00 (58.70 to 59.70): VNC





#23

Vinyl Acetate

Concen: 104.589 ug/l

RT: 5.90 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VN052155.D

Acq: 5 Nov 2018 19:00

Instrument :

MSVOA_N

ClientSampleId :

VN1105WBSD01

Tot Ion: 43 Resp: 892771

Ion Ratio Lower Upper

43 100

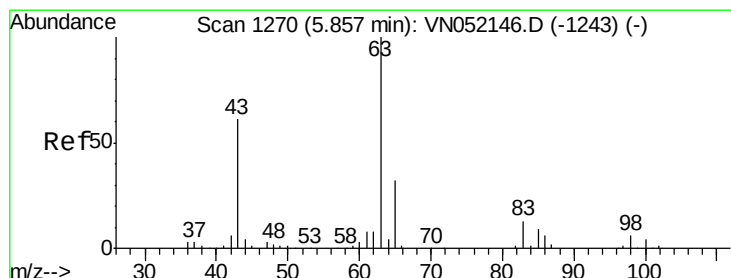
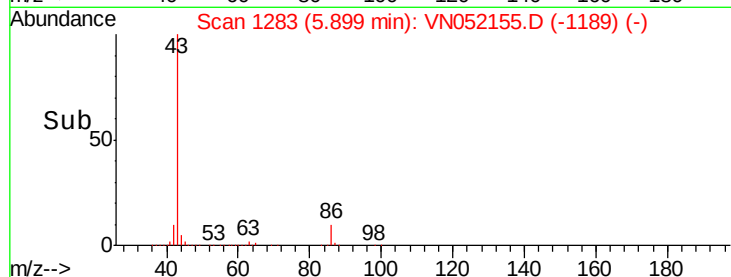
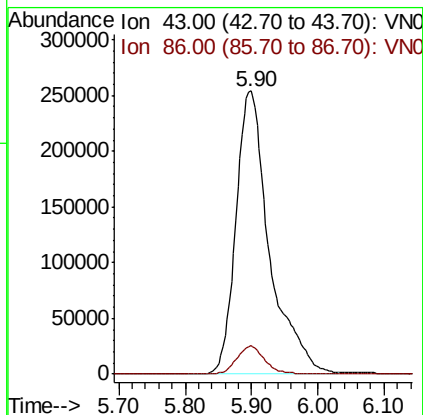
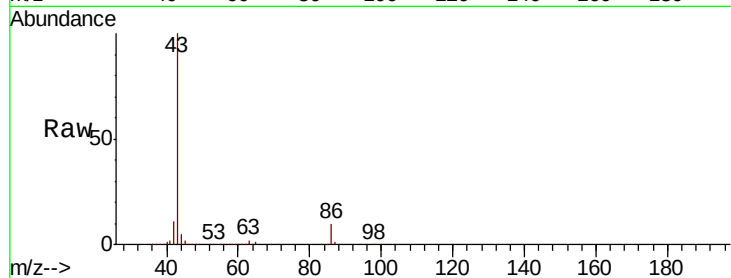
86 10.0 7.9 11.9

Manual Integrations

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MMDadoda

11/6/2018 10:00:20 AM



#24

1,1-Dichloroethane

Concen: 20.256 ug/l

RT: 5.85 min Scan# 1269

Delta R.T. -0.00 min

Lab File: VN052155.D

Acq: 5 Nov 2018 19:00

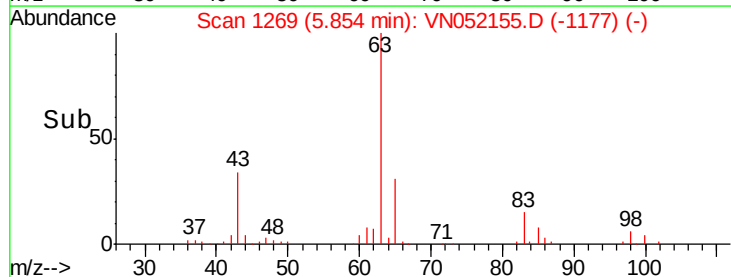
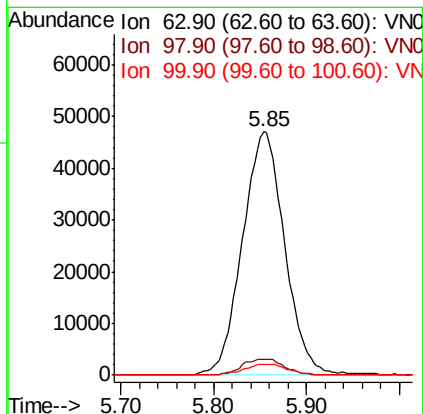
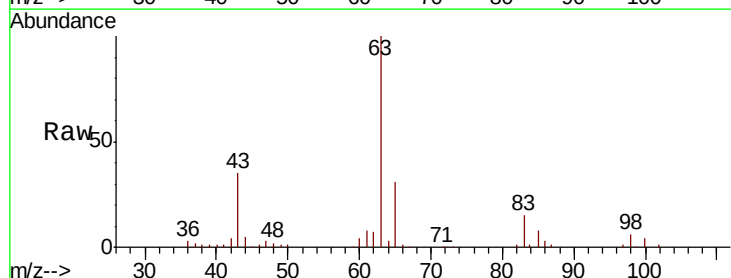
Tgt Ion: 63 Resp: 148615

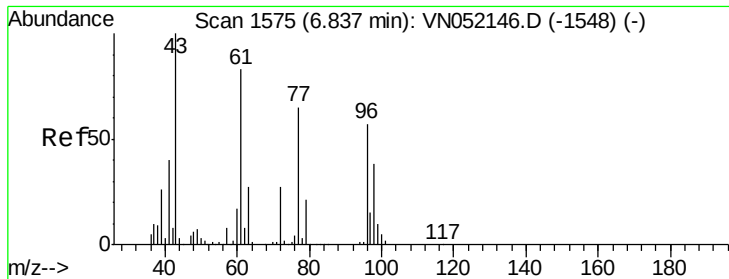
Ion Ratio Lower Upper

63 100

98 6.3 3.1 9.4

100 4.2 2.1 6.2





#25

2-Butanone

Concen: 95.153 ug/l

RT: 6.84 min Scan# 1575

Delta R.T. -0.00 min

Lab File: VN052155.D

Acq: 5 Nov 2018 19:00

Instrument :

MSVOA_N

ClientSampleId :

VN1105WBSD01

Tot Ion: 43 Resp: 151767

Ion Ratio Lower Upper

43 100

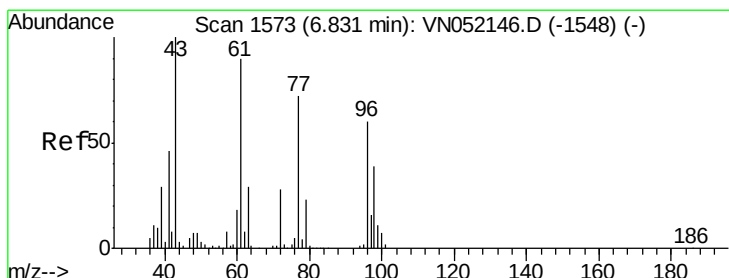
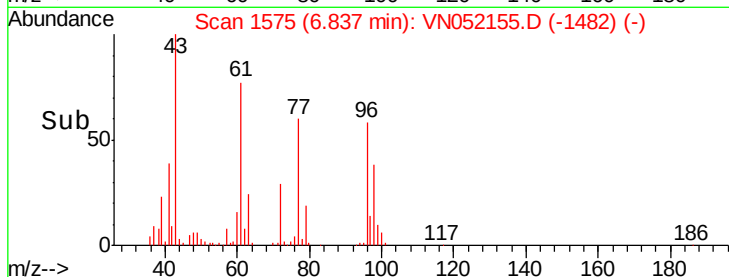
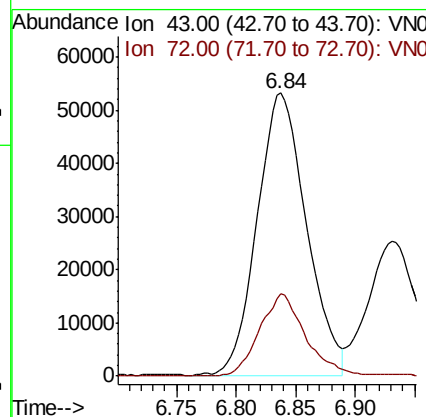
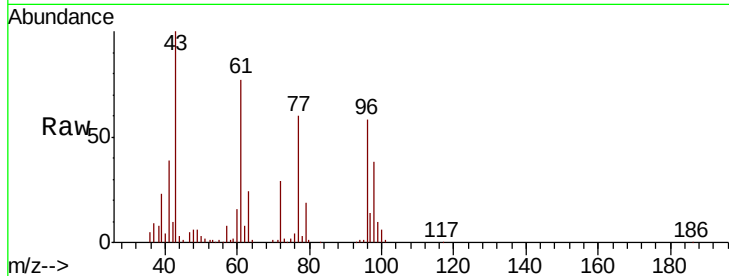
72 29.2 21.4 32.2

Manual Integrations

APPROVED

MMDadoda

11/6/2018 10:00:20 AM



#26

2,2-Dichloropropane

Concen: 18.855 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. -0.00 min

Lab File: VN052155.D

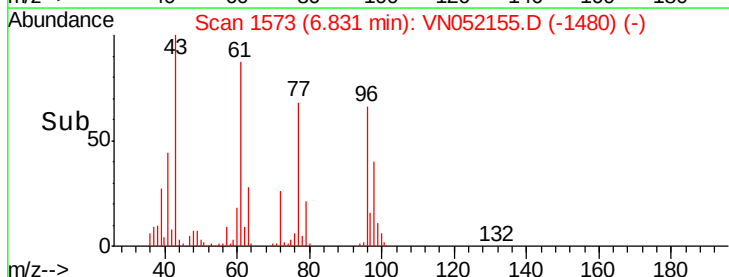
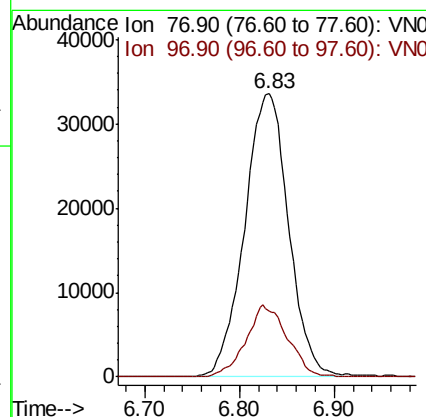
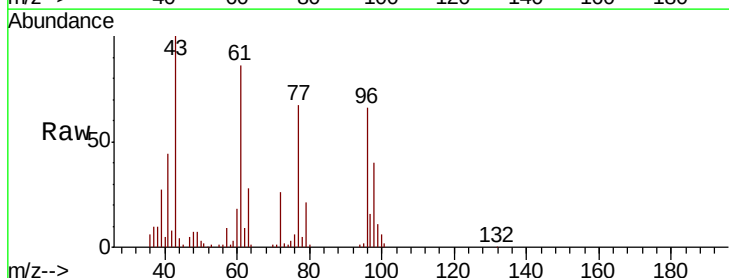
Acq: 5 Nov 2018 19:00

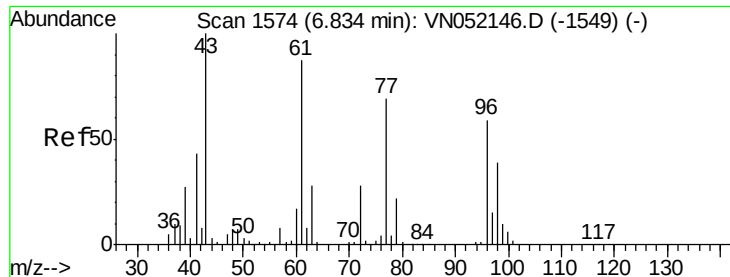
Tgt Ion: 77 Resp: 108264

Ion Ratio Lower Upper

77 100

97 23.8 11.4 34.1





#27

cis-1,2-Dichloroethene

Concen: 20.695 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. -0.00 min

Lab File: VN052155.D

Acq: 5 Nov 2018 19:00

Instrument :

MSVOA_N

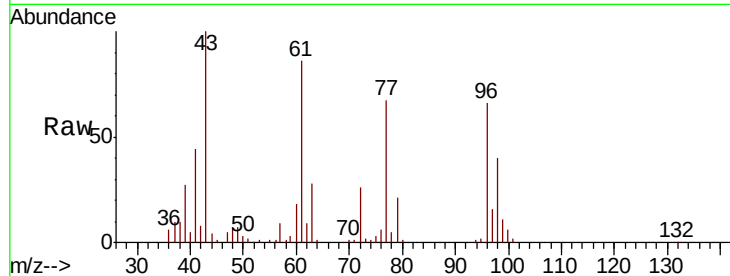
ClientSampleId :

VN1105WBSD01

Tot Ion:	96	Resp:	92087
Ion	Ratio	Lower	Upper
96	100		
61	139.0	0.0	291.8
98	63.1	0.0	130.0

Manual Integrations
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11/6/2018 10:00:20 AM

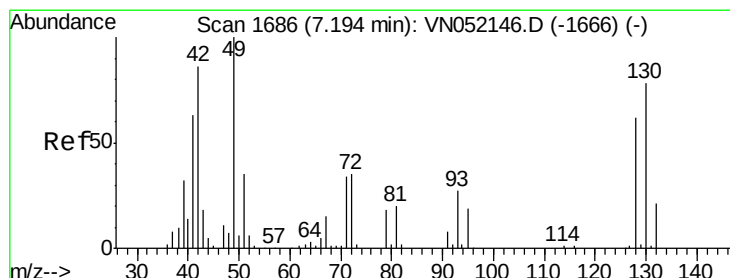
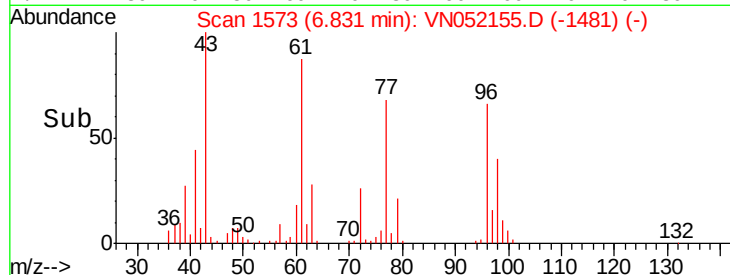
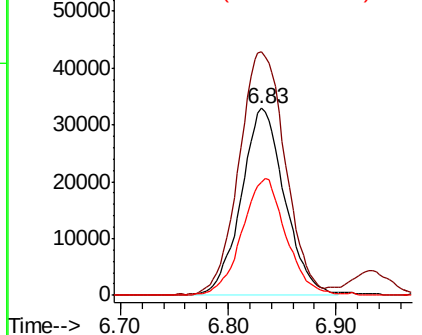


Abundance

Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#28

Bromochloromethane

Concen: 21.107 ug/l

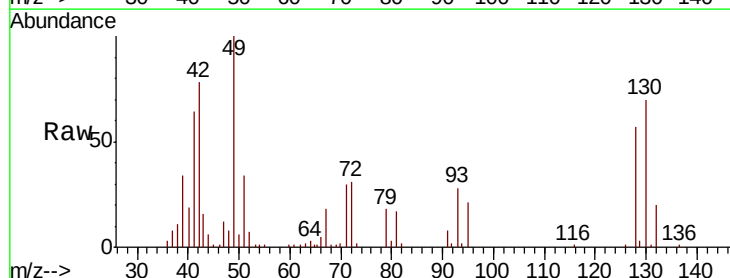
RT: 7.19 min Scan# 1686

Delta R.T. -0.00 min

Lab File: VN052155.D

Acq: 5 Nov 2018 19:00

Tgt Ion:	49	Resp:	73270
Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	4.4
130	72.9	59.8	89.6

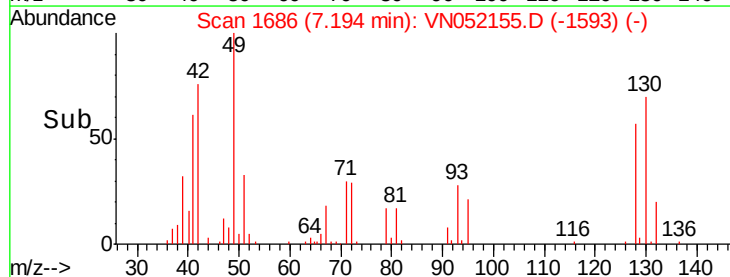
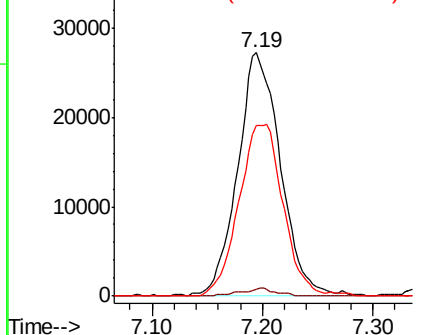


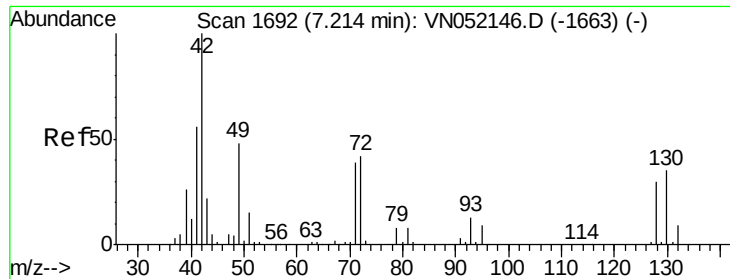
Abundance

Ion 48.90 (48.60 to 49.60): VN0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V





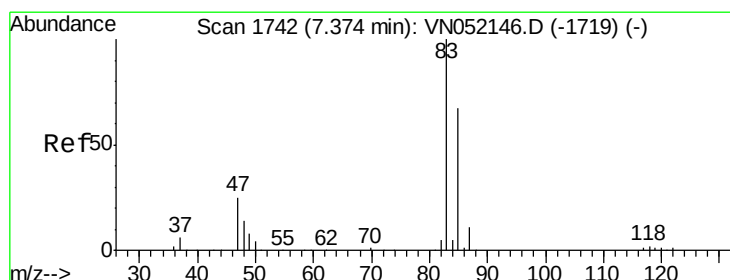
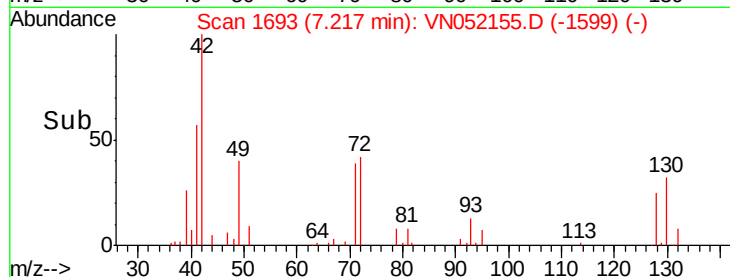
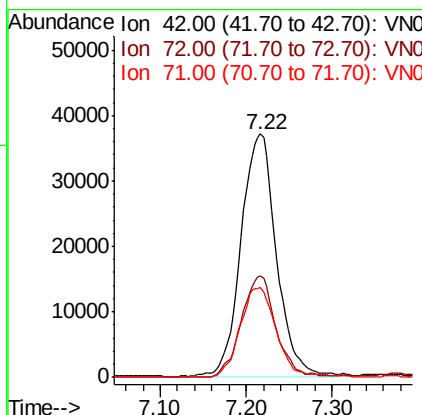
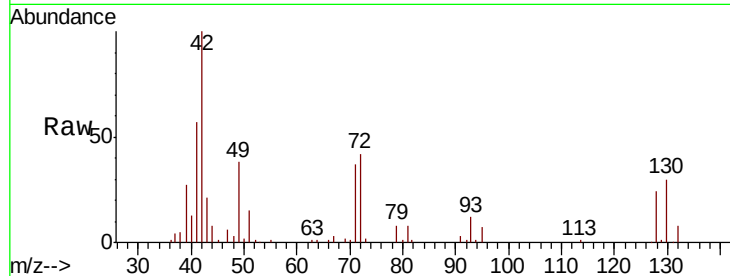
#29
Tetrahydrofuran
Concen: 108.304 ug/l
RT: 7.22 min Scan# 1693
Delta R.T. 0.00 min
Lab File: VN052155.D
Acq: 5 Nov 2018 19:00

Instrument :
MSVOA_N
ClientSampleId :
VN1105WBSD01

Tot Ion	Ratio	Lower	Upper
42	100		
72	40.1	32.3	48.5
71	37.2	31.0	46.6

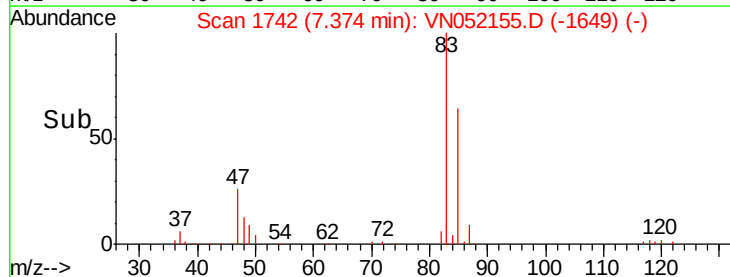
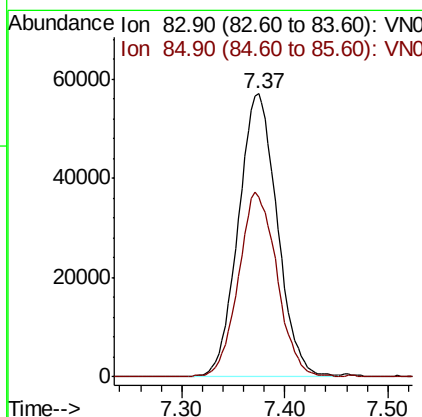
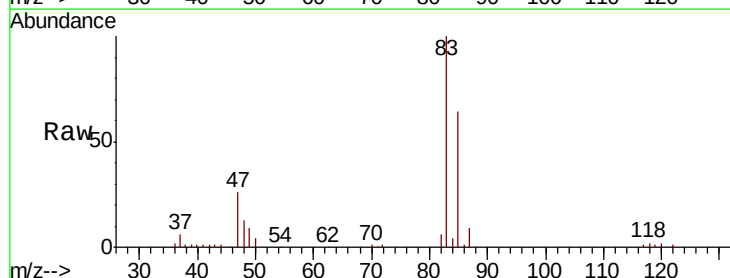
Manual Integrations
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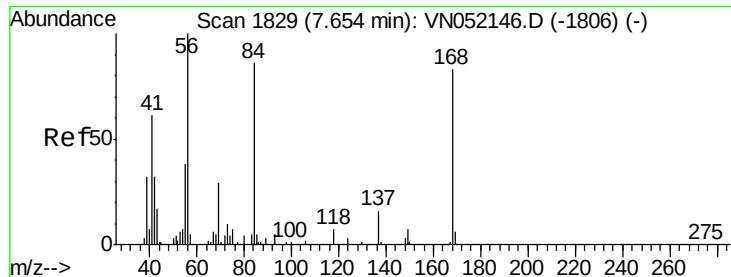
MMDadoda
11/6/2018 10:00:20 AM



#30
Chloroform
Concen: 20.476 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. -0.00 min
Lab File: VN052155.D
Acq: 5 Nov 2018 19:00

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.7	53.7	80.5





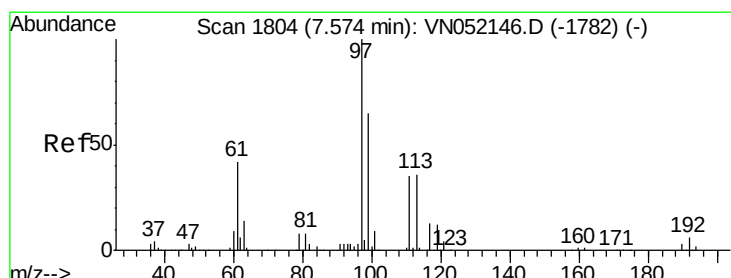
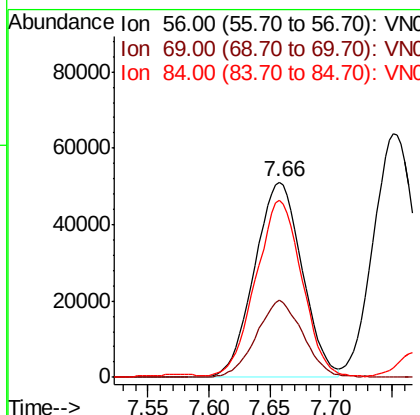
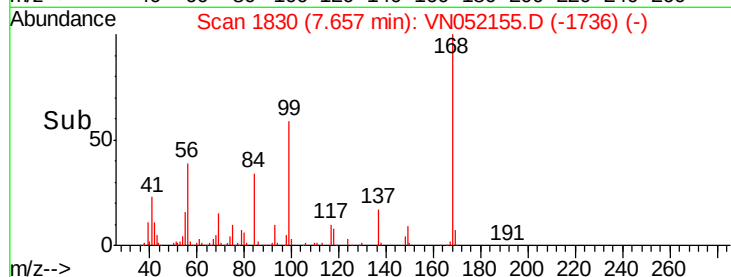
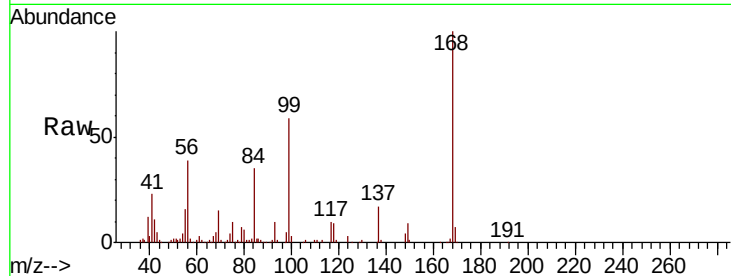
#31
Cyclohexane
Concen: 19.219 ug/l
RT: 7.66 min Scan# 1830
Delta R.T. 0.00 min
Lab File: VN052155.D
Acq: 5 Nov 2018 19:00

Instrument :
MSVOA_N
ClientSampleId :
VN1105WBSD01

Tot Ion	Ratio	Lower	Upper
56	100		
69	39.2	23.5	35.3#
84	89.0	68.7	103.1

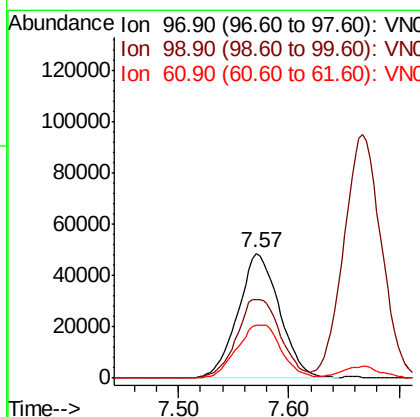
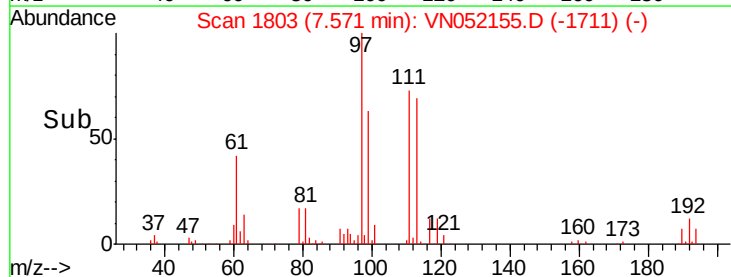
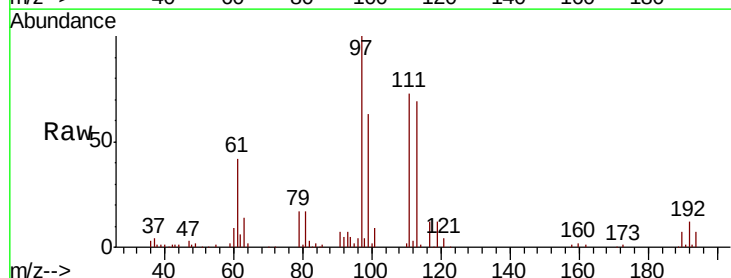
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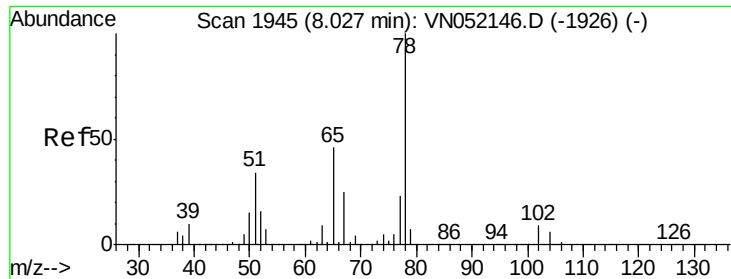
MMDadoda
11/6/2018 10:00:20 AM



#32
1,1,1-Trichloroethane
Concen: 19.675 ug/l
RT: 7.57 min Scan# 1803
Delta R.T. -0.00 min
Lab File: VN052155.D
Acq: 5 Nov 2018 19:00

Tgt Ion	Ratio	Lower	Upper
97	100		
99	66.7	51.6	77.4
61	45.1	35.1	52.7





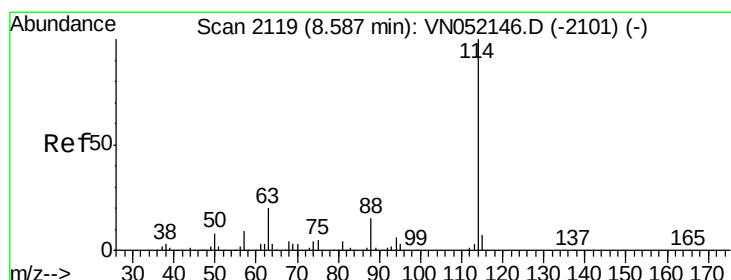
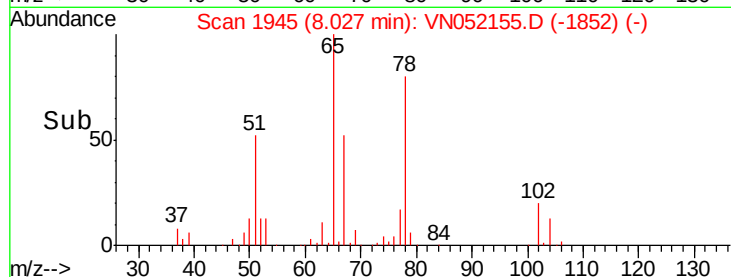
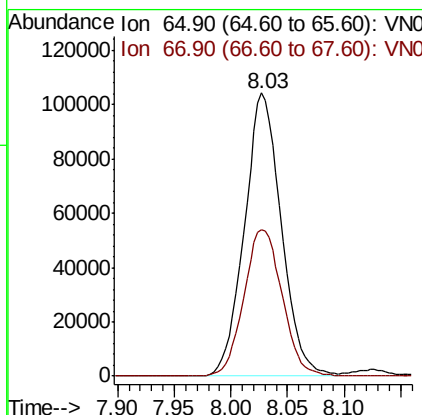
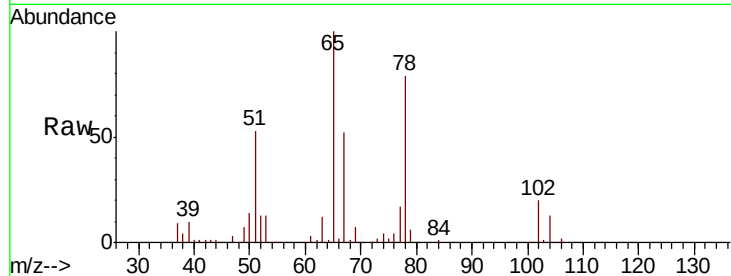
#33
 1,2-Dichloroethane-d4
 Concen: 19.675 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN052155.D
 Acq: 5 Nov 2018 19:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1105WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	236362		
67	53.8	0.0	107.6	

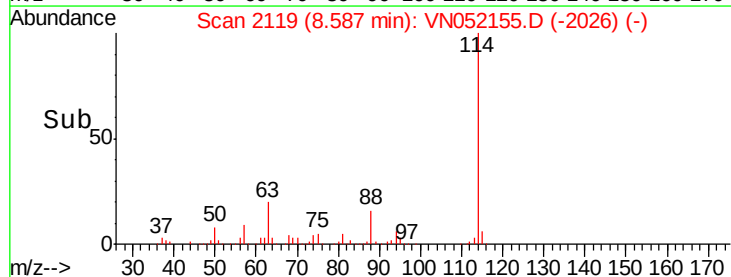
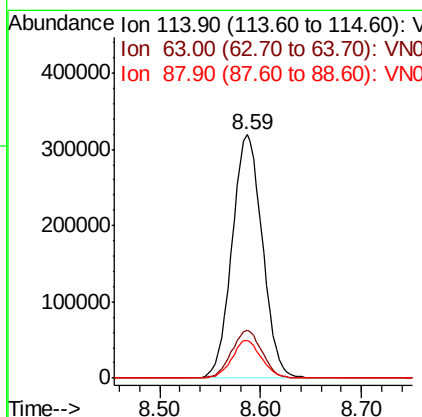
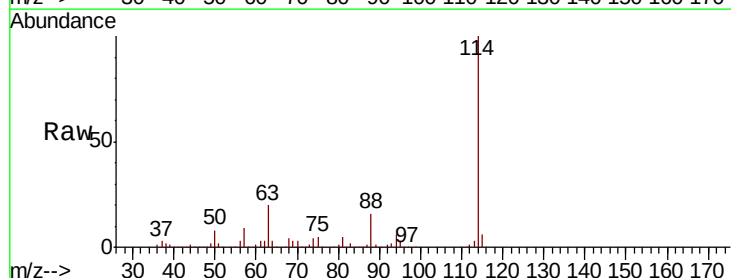
Manual Integrations
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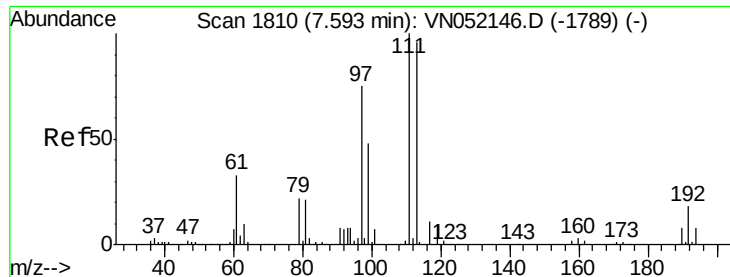
MMDadoda
 11/6/2018 10:00:20 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN052155.D
 Acq: 5 Nov 2018 19:00

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	667621		
63	19.7	0.0	40.0	
88	15.5	0.0	31.0	





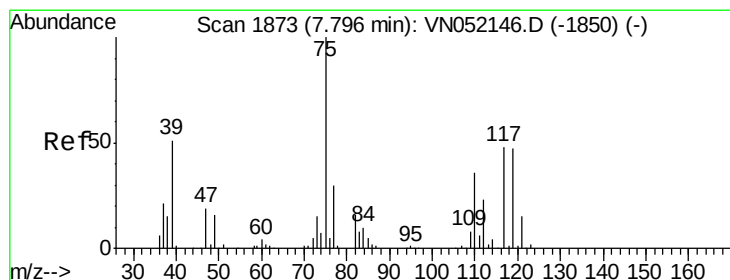
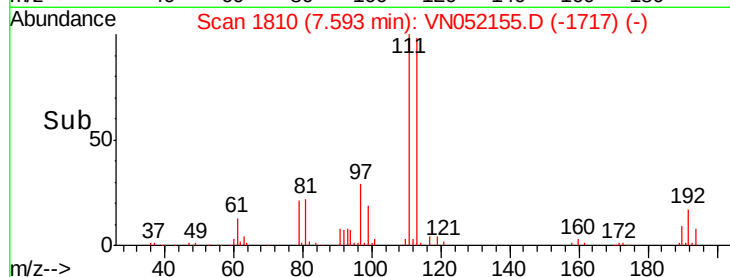
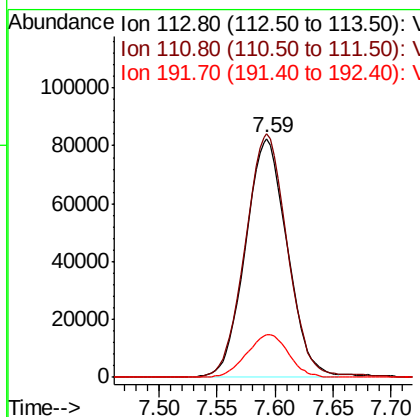
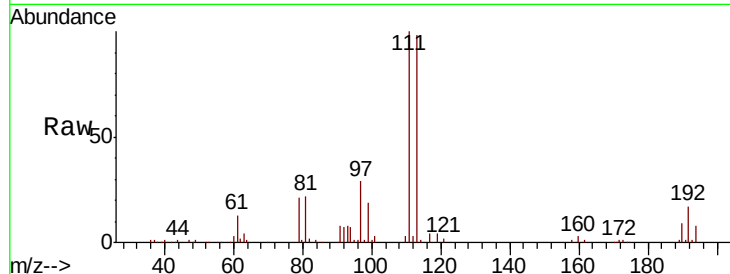
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. -0.00 min
 Lab File: VN052155.D
 Acq: 5 Nov 2018 19:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1105WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	102.7	81.7	122.5	
192	18.0	14.2	21.4	

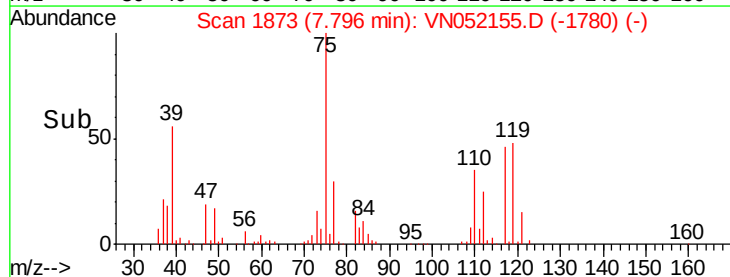
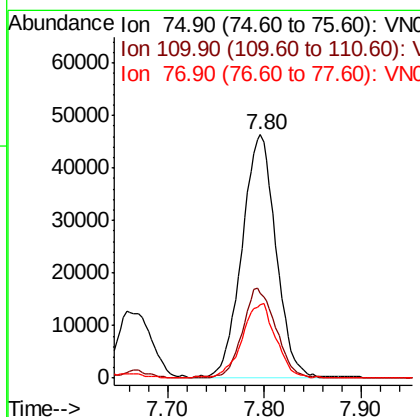
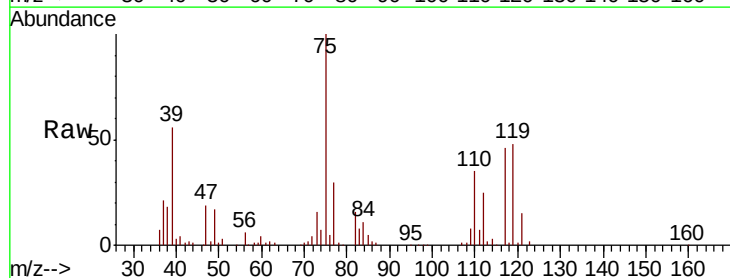
Manual Integrations
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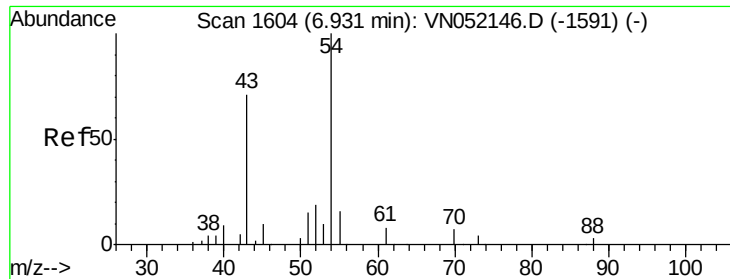
MMDadoda
 11/6/2018 10:00:20 AM



#36
 1,1-Dichloropropene
 Concen: 19.209 ug/l
 RT: 7.80 min Scan# 1873
 Delta R.T. -0.00 min
 Lab File: VN052155.D
 Acq: 5 Nov 2018 19:00

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
110	36.0	17.8	53.5	
77	29.2	24.0	36.0	





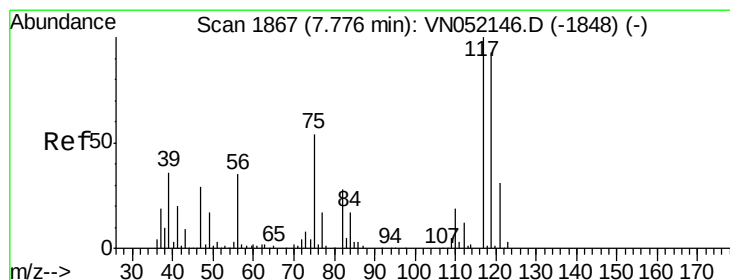
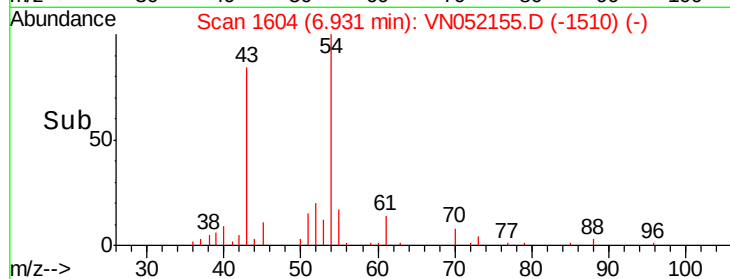
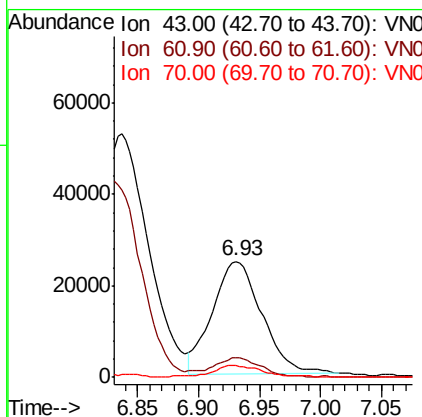
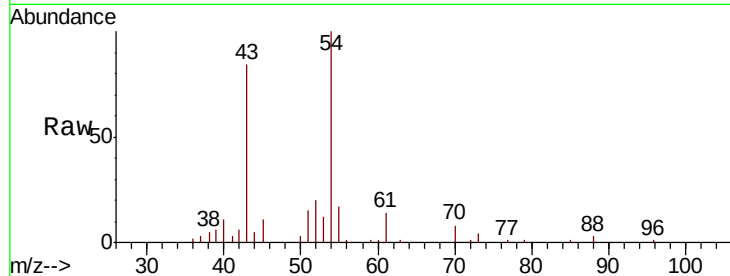
#37
Ethyl Acetate
Concen: 19.322 ug/l
RT: 6.93 min Scan# 1604
Delta R.T. 0.00 min
Lab File: VN052155.D
Acq: 5 Nov 2018 19:00

Instrument :
MSVOA_N
ClientSampled :
VN1105WBSD01

Tot Ion	43	61	70
Resp	70440		
Ratio	100	15.9	10.4
Lower		9.4	7.6
Upper		14.2#	11.4

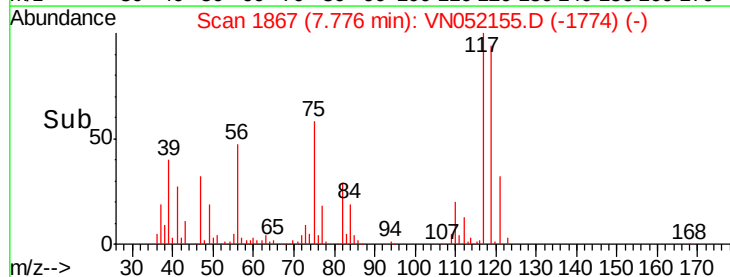
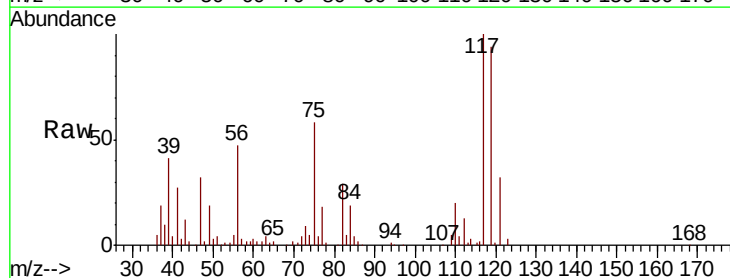
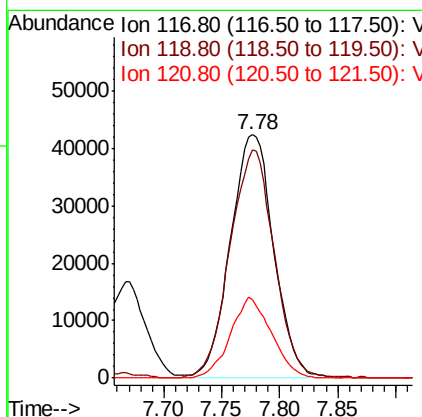
Manual Integrations
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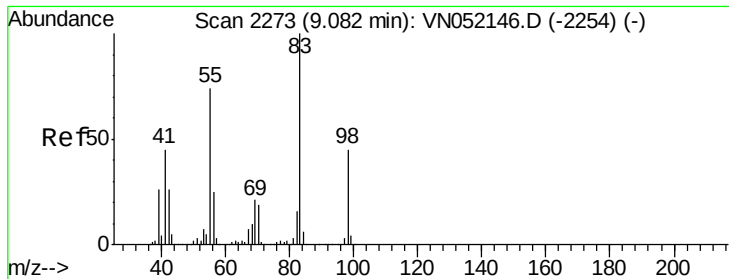
MMDadoda
11/6/2018 10:00:20 AM



#38
Carbon Tetrachloride
Concen: 18.701 ug/l
RT: 7.78 min Scan# 1867
Delta R.T. -0.00 min
Lab File: VN052155.D
Acq: 5 Nov 2018 19:00

Tgt Ion	117	119	121
Resp	110425		
Ratio	100	93.2	32.4
Lower		74.7	24.5
Upper		112.1	36.7





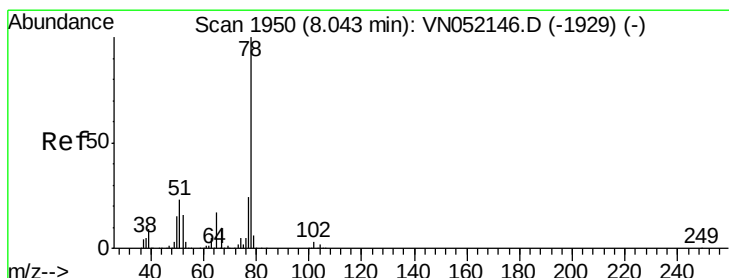
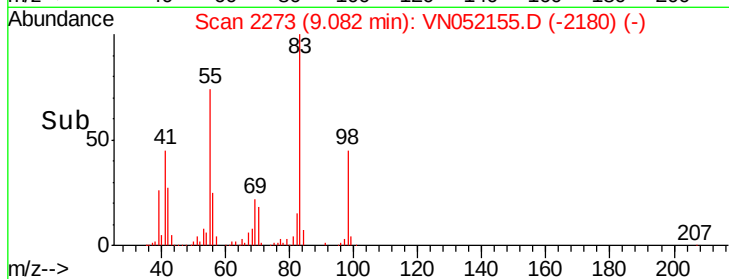
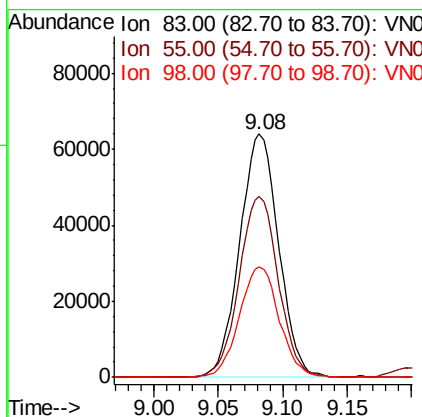
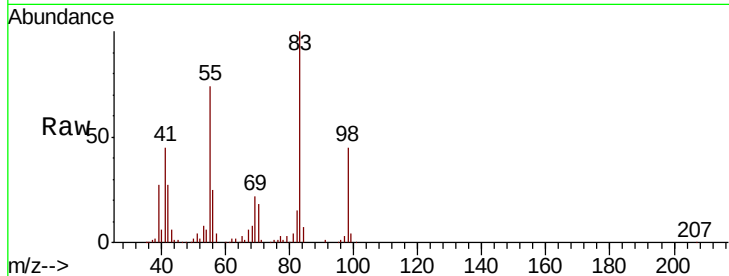
#39
Methylvlcyclohexane
Concen: 19.246 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. -0.00 min
Lab File: VN052155.D
Acq: 5 Nov 2018 19:00

Instrument :
MSVOA_N
ClientSampleId :
VN1105WBSD01

Tot Ion	Ratio	Lower	Upper
83	100		
55	74.2	59.4	89.2
98	45.2	36.3	54.5

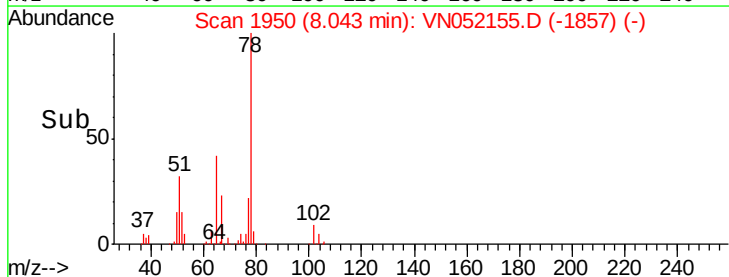
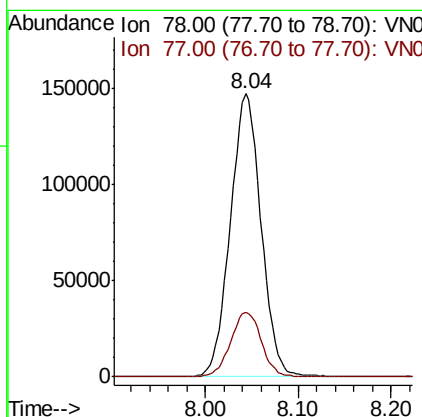
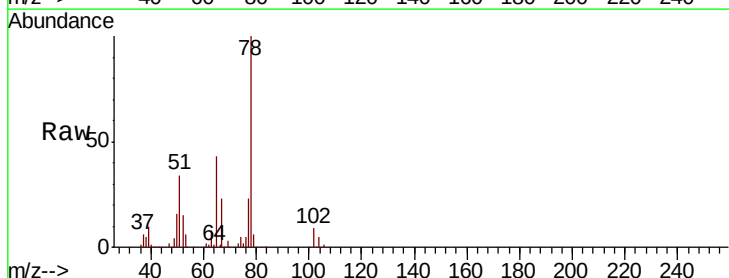
Manual Integrations
APPROVED

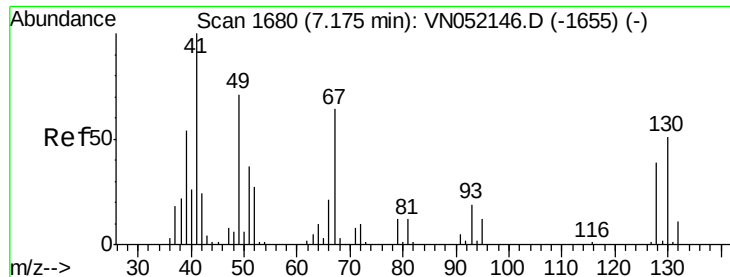
MMDadoda
11/6/2018 10:00:20 AM



#40
Benzene
Concen: 19.545 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. -0.00 min
Lab File: VN052155.D
Acq: 5 Nov 2018 19:00

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.6	19.1	28.7





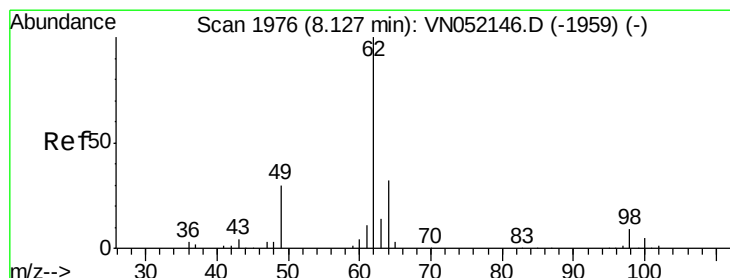
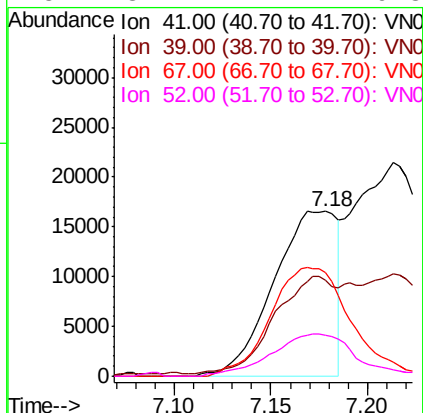
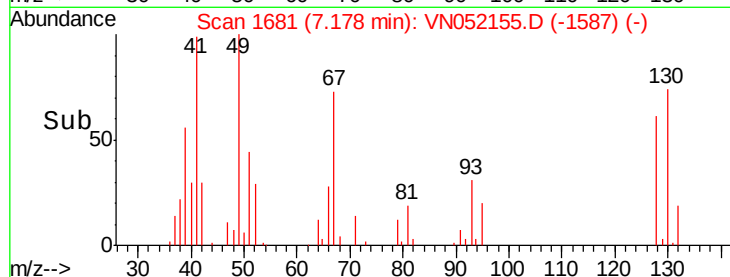
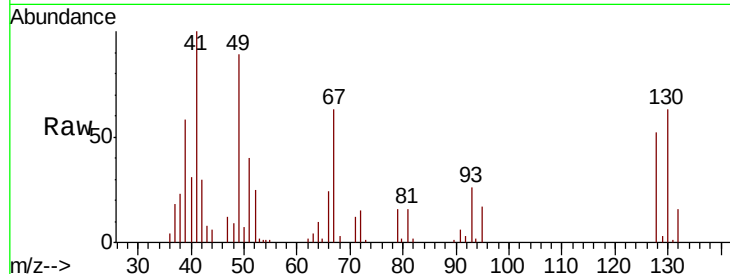
#41
Methacrylonitrile
Concen: 19.366 ug/l
RT: 7.18 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VN052155.D
Acq: 5 Nov 2018 19:00

Instrument :
MSVOA_N
ClientSampleId :
VN1105WBSD01

Tot Ion	41	Resp	37716
Ion	Ratio	Lower	Upper
41	100		
39	56.7	49.6	74.4
67	83.5	65.4	98.2
52	34.2	27.2	40.8

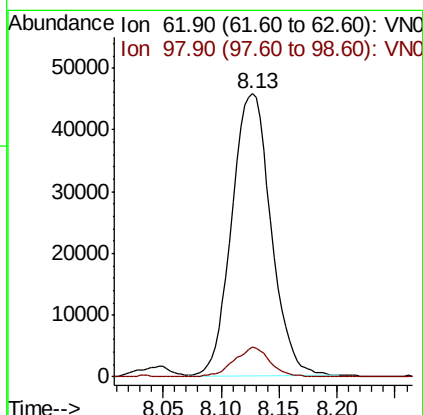
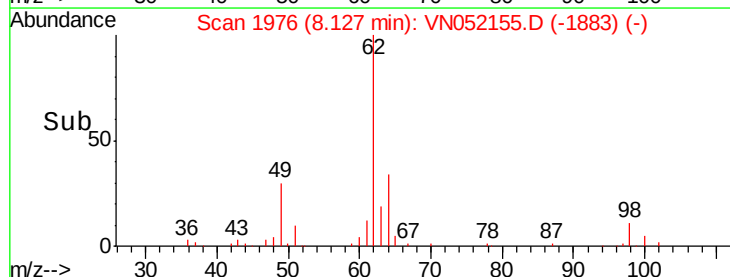
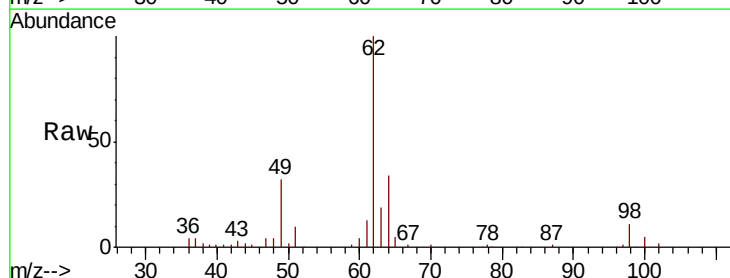
Manual Integrations
APPROVED

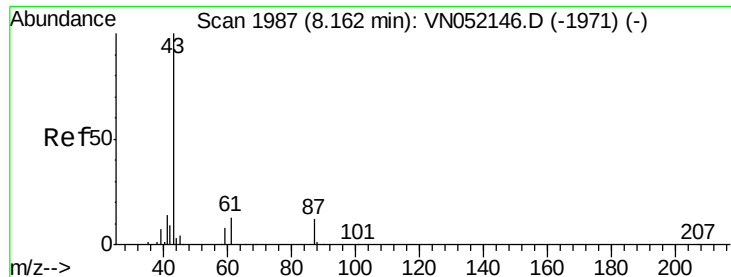
MMDadoda
11/6/2018 10:00:20 AM



#42
1,2-Dichloroethane
Concen: 19.250 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. -0.00 min
Lab File: VN052155.D
Acq: 5 Nov 2018 19:00

Tgt Ion	62	Resp	107438
Ion	Ratio	Lower	Upper
62	100		
98	9.5	0.0	18.2





#43

Isopropyl Acetate

Concen: 19.394 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN052155.D

Acq: 5 Nov 2018 19:00

Instrument :

MSVOA_N

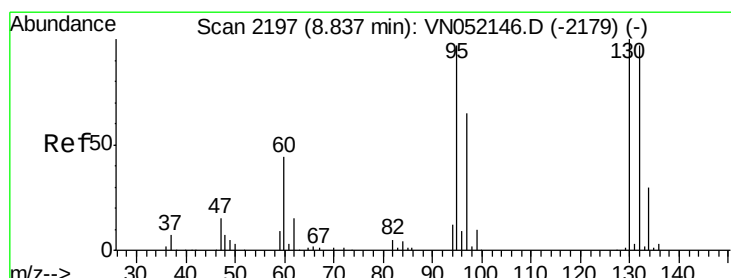
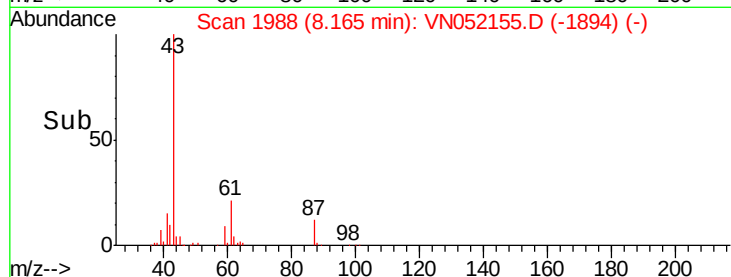
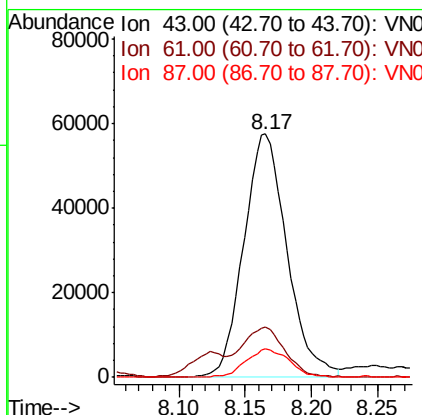
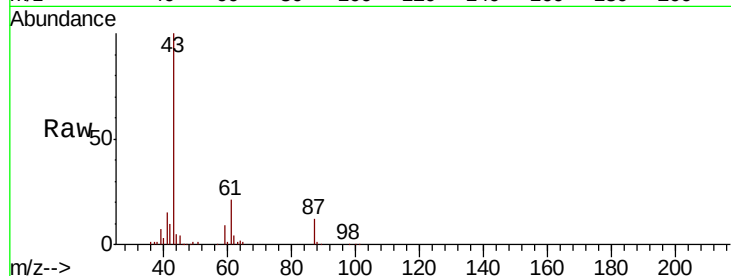
ClientSampleId :

VN1105WBSD01

Tot Ion:	43	Resp:	130691
Ion	Ratio	Lower	Upper
43	100		
61	19.8	21.5	32.3#
87	11.7	10.2	15.2

Manual Integrations
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MMDadoda
11/6/2018 10:00:20 AM



#44

Trichloroethene

Concen: 19.184 ug/l

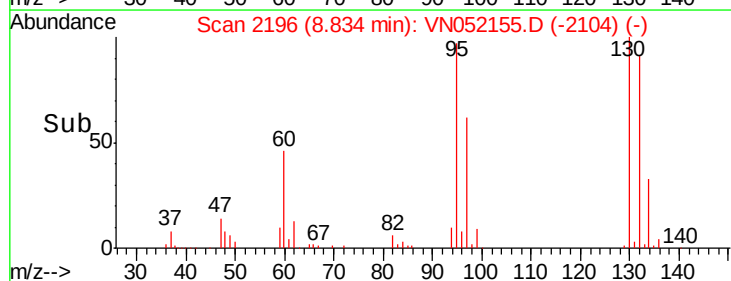
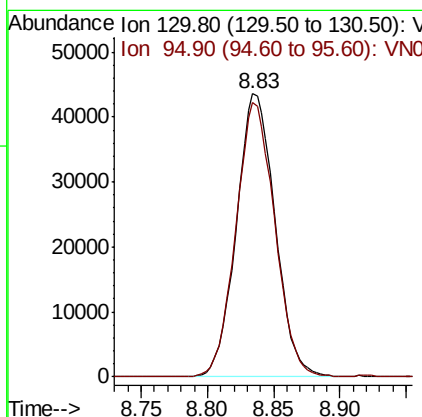
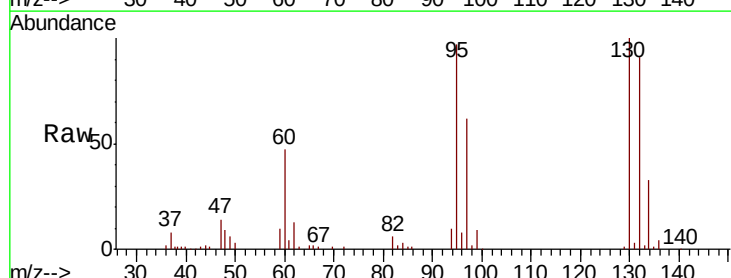
RT: 8.83 min Scan# 2196

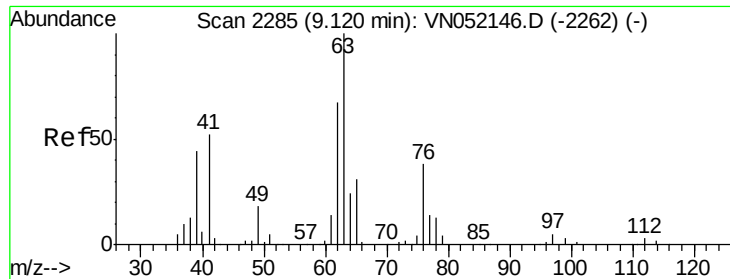
Delta R.T. -0.00 min

Lab File: VN052155.D

Acq: 5 Nov 2018 19:00

Tgt Ion:	130	Resp:	88184
Ion	Ratio	Lower	Upper
130	100		
95	97.1	0.0	193.8





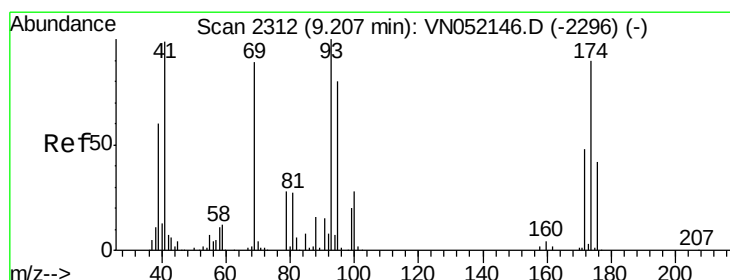
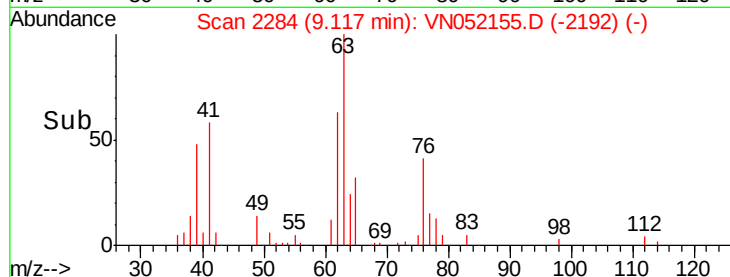
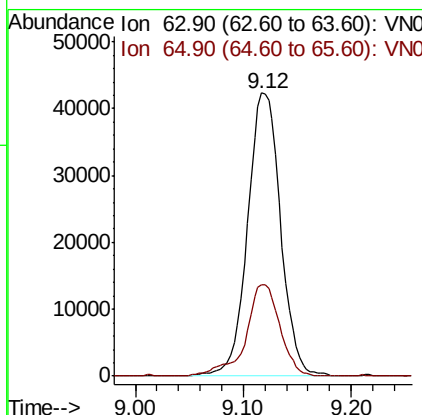
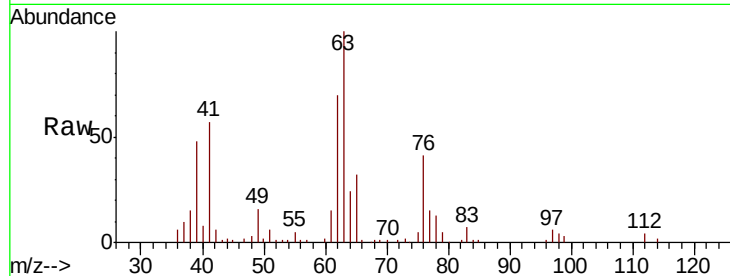
#45
 1,2-Dichloropropane
 Concen: 19.579 ug/l
 RT: 9.12 min Scan# 2284
 Delta R.T. -0.00 min
 Lab File: VN052155.D
 Acq: 5 Nov 2018 19:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1105WBSD01

Tot Ion: 63 Resp: 90024
 Ion Ratio Lower Upper
 63 100
 65 32.4 24.4 36.6

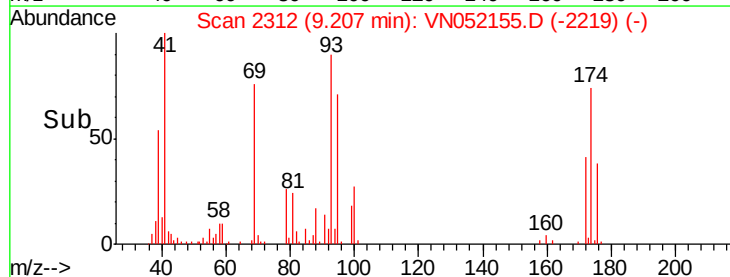
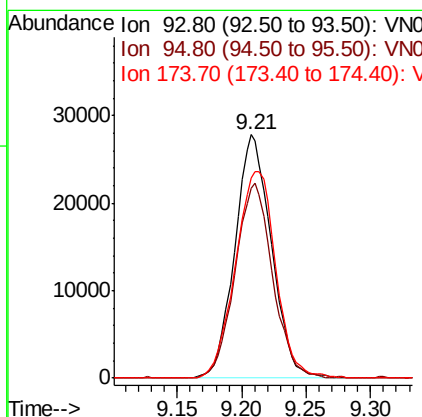
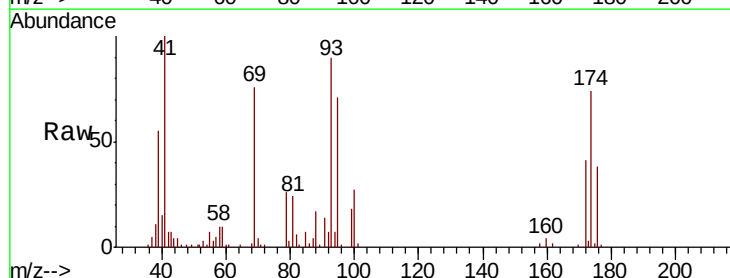
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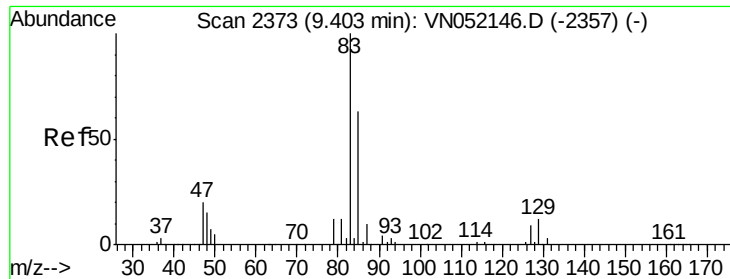
MMDadoda
 11/6/2018 10:00:20 AM



#46
 Dibromomethane
 Concen: 18.780 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. -0.00 min
 Lab File: VN052155.D
 Acq: 5 Nov 2018 19:00

Tgt Ion: 93 Resp: 54914
 Ion Ratio Lower Upper
 93 100
 95 82.0 64.5 96.7
 174 93.5 74.6 112.0





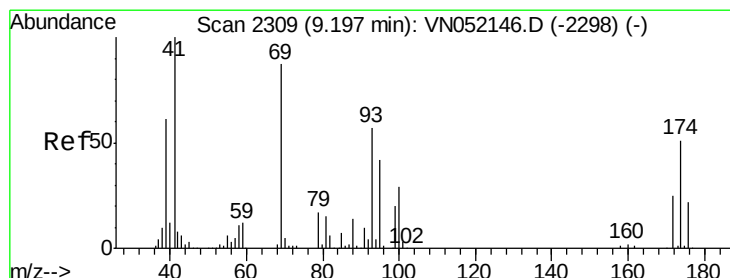
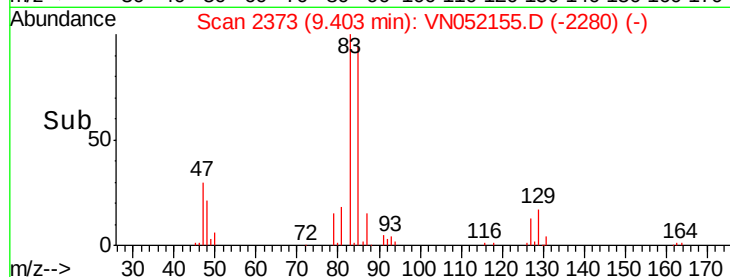
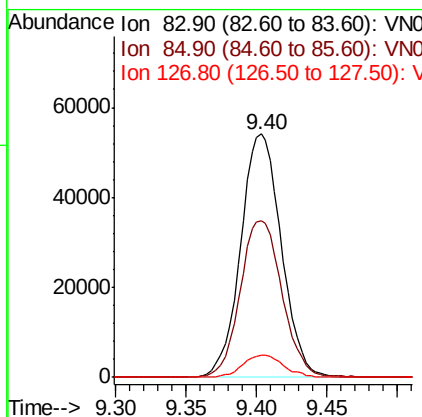
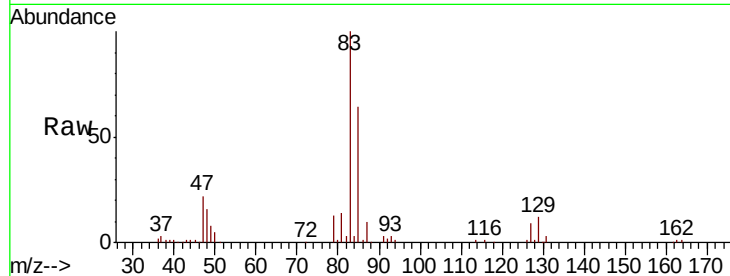
#47
Bromodichloromethane
Concen: 19.092 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. -0.00 min
Lab File: VN052155.D
Acq: 5 Nov 2018 19:00

Instrument :
MSVOA_N
ClientSampled :
VN1105WBSD01

Tot Ion	83	Resp	108880
Ion Ratio	100	Lower	Upper
83	100		
85	64.5	50.5	75.7
127	9.1	7.2	10.8

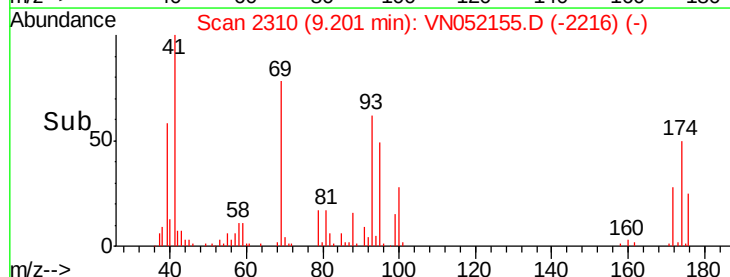
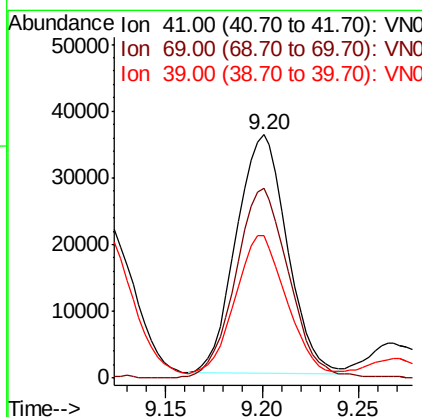
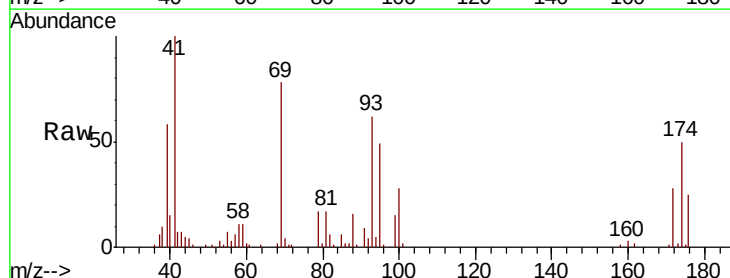
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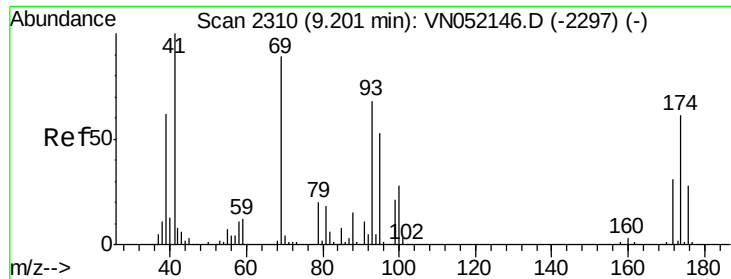
MMDadoda
11/6/2018 10:00:20 AM



#48
Methyl methacrylate
Concen: 20.248 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN052155.D
Acq: 5 Nov 2018 19:00

Tgt Ion	41	Resp	65672
Ion Ratio	100	Lower	Upper
41	100		
69	83.3	69.7	104.5
39	59.9	50.6	76.0





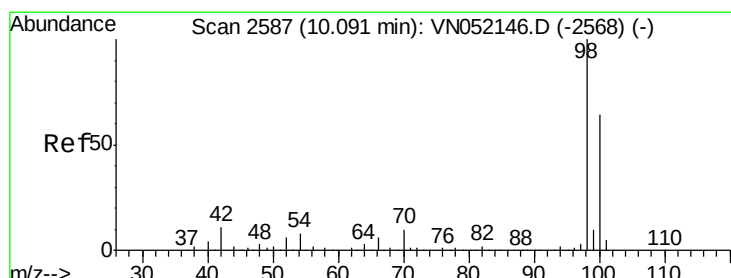
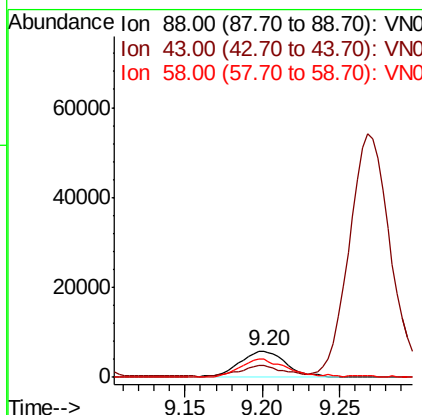
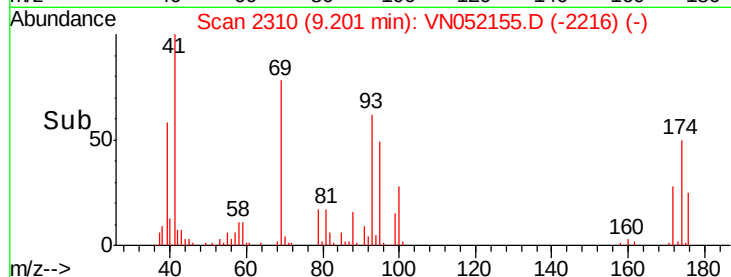
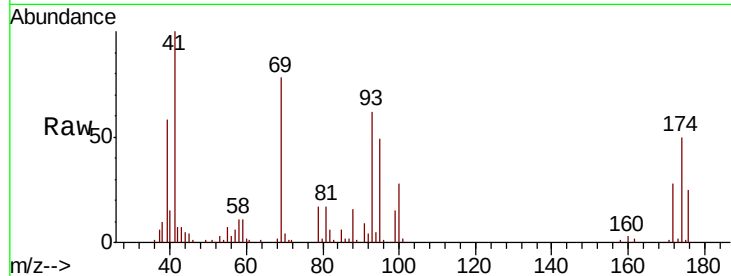
#49
1,4-Dioxane
Concen: 433.789 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN052155.D
Acq: 5 Nov 2018 19:00

Instrument :
MSVOA_N
ClientSampleId :
VN1105WBSD01

Tot Ion	Ratio	Lower	Upper
88	100		
43	46.3	33.0	49.6
58	70.3	58.6	88.0

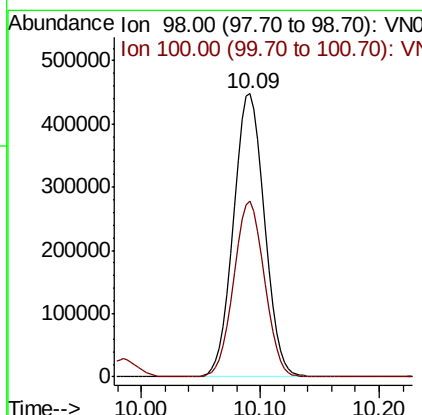
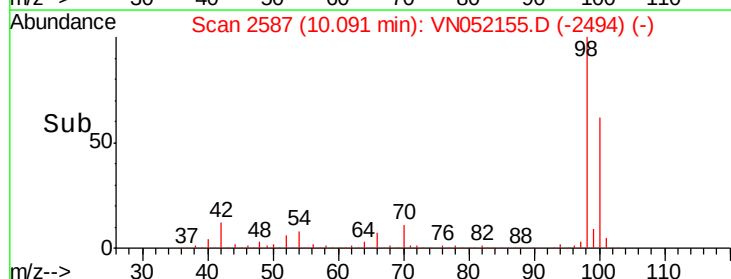
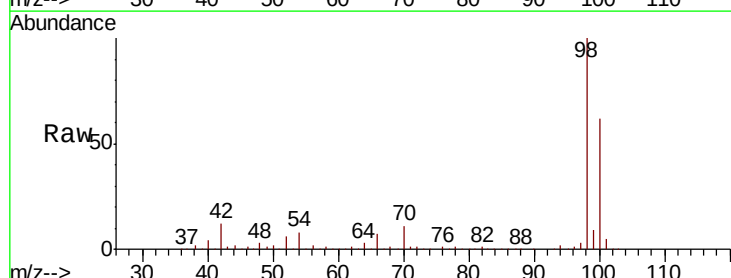
Manual Integrations
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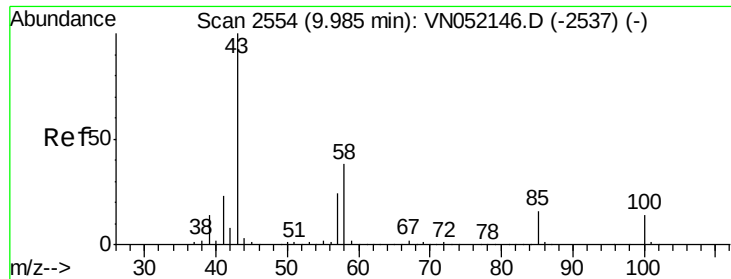
MMDadoda
11/6/2018 10:00:20 AM



#50
Toluene-d8
Concen: 433.789 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN052155.D
Acq: 5 Nov 2018 19:00

Tgt Ion	Ratio	Lower	Upper
98	100		
100	61.4	50.5	75.7





#51

4-Methyl-2-Pentanone

Concen: 100.673 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN052155.D

Acq: 5 Nov 2018 19:00

Instrument :

MSVOA_N

ClientSampleId :

VN1105WBSD01

Tot Ion: 43 Resp: 358406

Ion Ratio Lower Upper

43 100

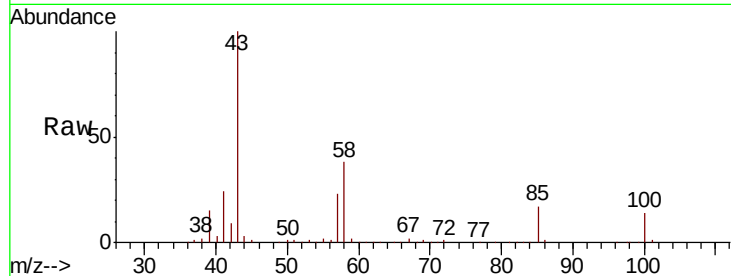
58 37.3 29.6 44.4

Manual Integrations

APPROVED

MMDadoda

11/6/2018 10:00:20 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

200000

150000

100000

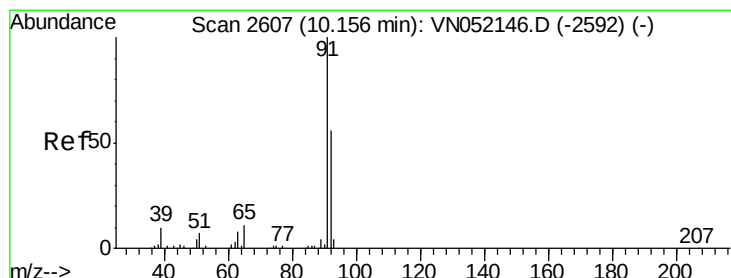
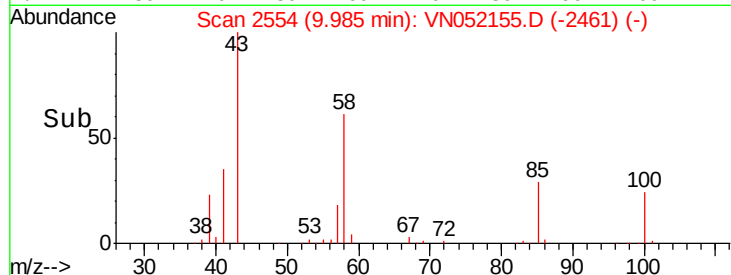
50000

0

9.90

10.00

Time-->



#52

Toluene

Concen: 20.063 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN052155.D

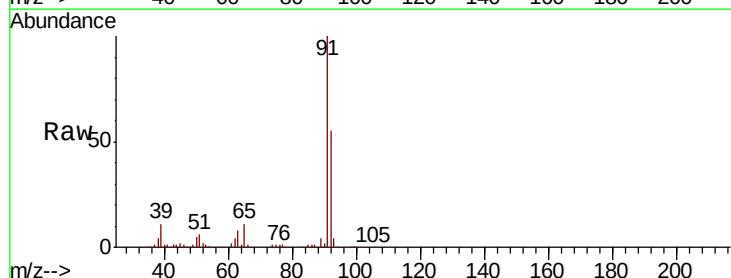
Acq: 5 Nov 2018 19:00

Tgt Ion: 92 Resp: 210052

Ion Ratio Lower Upper

92 100

91 178.7 142.5 213.7



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0

250000

200000

150000

100000

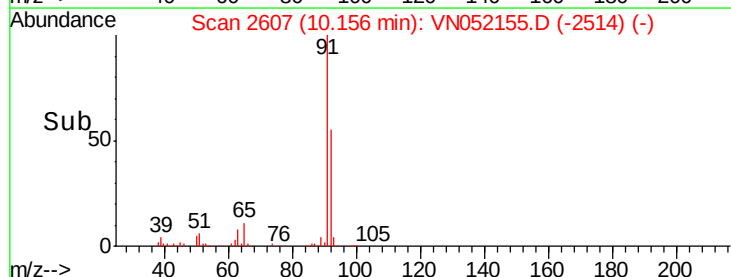
50000

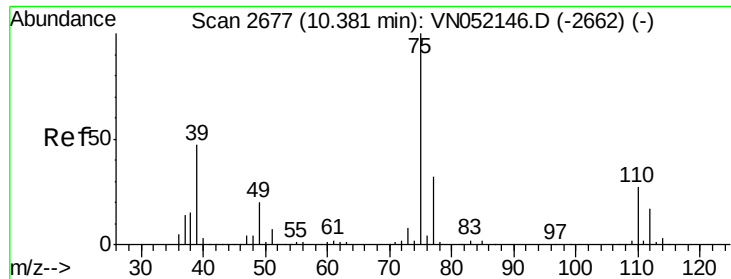
0

10.10

10.20

Time-->





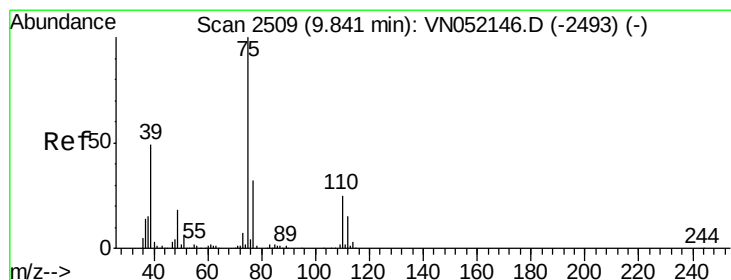
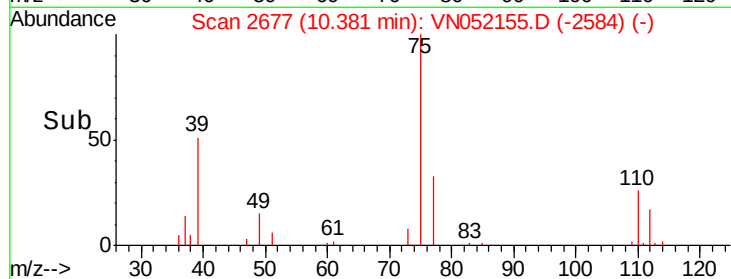
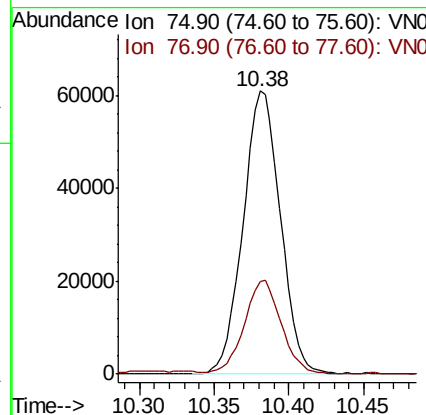
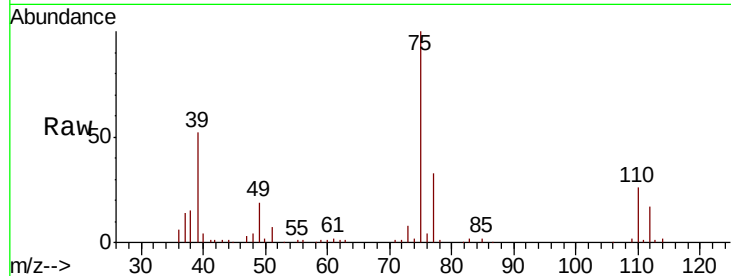
#53
 t-1,3-Dichloropropene
 Concen: 18.996 ug/l
 RT: 10.38 min Scan# 2677
 Delta R.T. -0.00 min
 Lab File: VN052155.D
 Acq: 5 Nov 2018 19:00

Instrument :
 MSVOA_N
 ClientSampled :
 VN1105WBSD01

Tot Ion: 75 Resp: 106272
 Ion Ratio Lower Upper
 75 100
 77 32.9 25.8 38.6

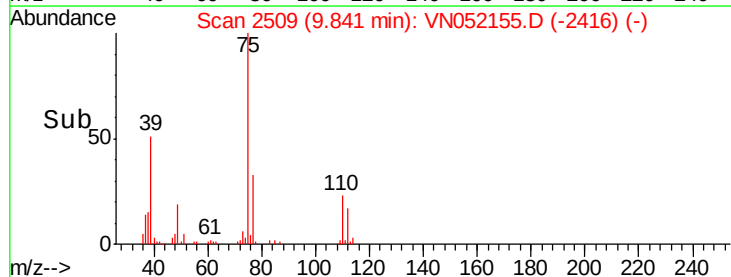
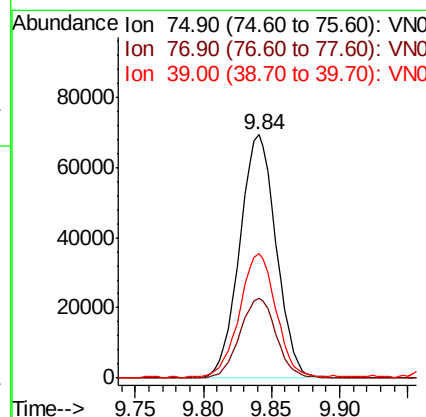
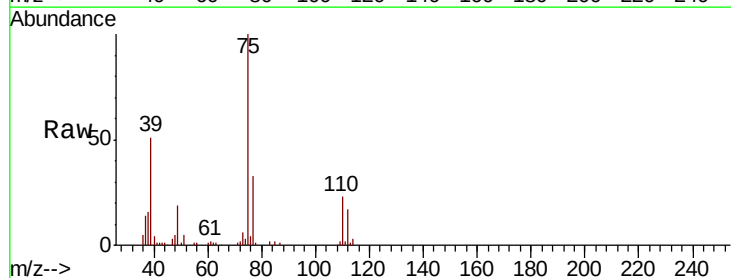
Manual Integrations
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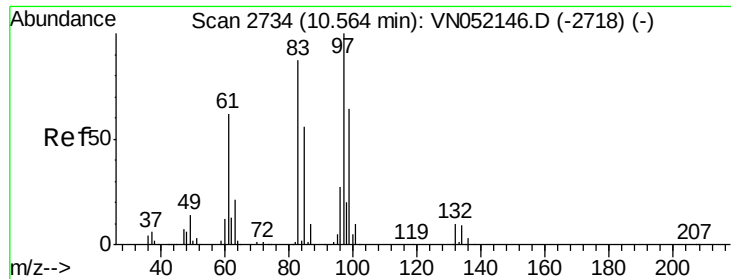
MMDadoda
 11/6/2018 10:00:20 AM



#54
 cis-1,3-Dichloropropene
 Concen: 19.678 ug/l
 RT: 9.84 min Scan# 2509
 Delta R.T. -0.00 min
 Lab File: VN052155.D
 Acq: 5 Nov 2018 19:00

Tgt Ion: 75 Resp: 128822
 Ion Ratio Lower Upper
 75 100
 77 32.5 25.8 38.8
 39 50.6 39.2 58.8





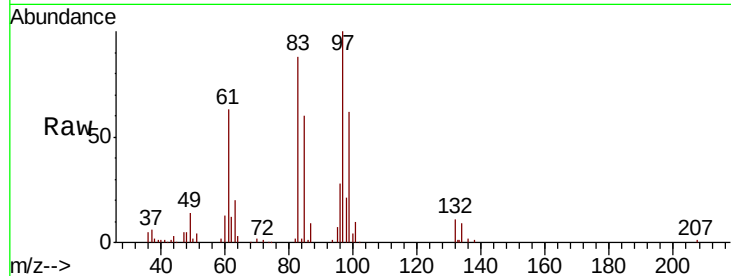
#55
 1,1,2-Trichloroethane
 Concen: 19.957 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. -0.00 min
 Lab File: VN052155.D
 Acq: 5 Nov 2018 19:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1105WBSD01

Tot Ion:	97	Resp:	73667
Ion	Ratio	Lower	Upper
97	100		
83	88.3	69.3	103.9
85	60.4	44.9	67.3
99	61.9	51.5	77.3

Manual Integrations
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MMDadoda
 11/6/2018 10:00:20 AM



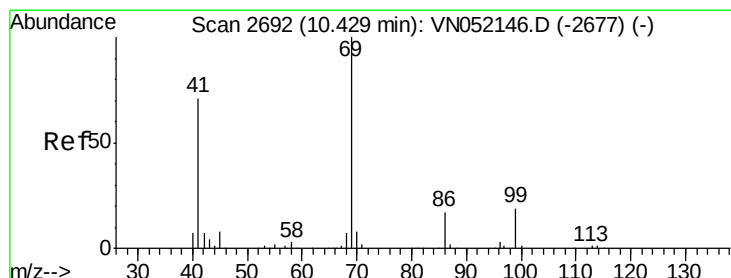
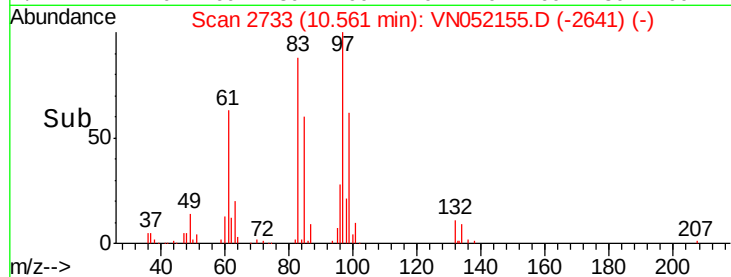
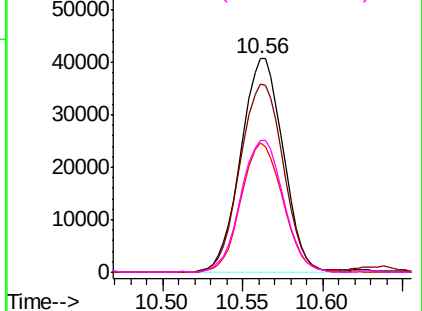
Abundance

Ion 96.90 (96.60 to 97.60): VN0

Ion 82.90 (82.60 to 83.60): VN0

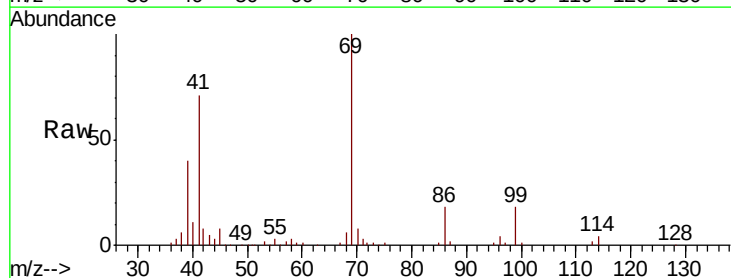
Ion 84.90 (84.60 to 85.60): VN0

Ion 98.90 (98.60 to 99.60): VN0



#56
 Ethyl methacrylate
 Concen: 19.993 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. -0.00 min
 Lab File: VN052155.D
 Acq: 5 Nov 2018 19:00

Tgt Ion:	69	Resp:	96192
Ion	Ratio	Lower	Upper
69	100		
41	68.2	55.4	83.0
39	39.7	32.0	48.0

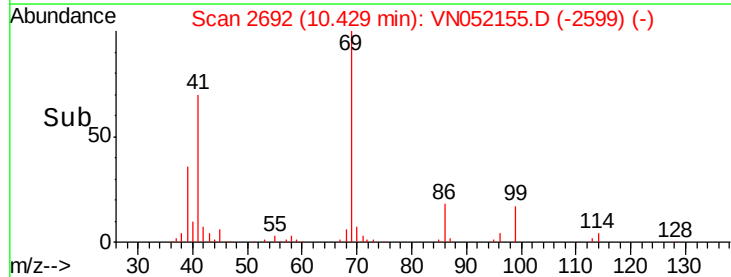
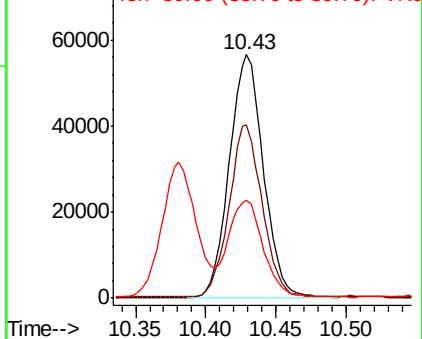


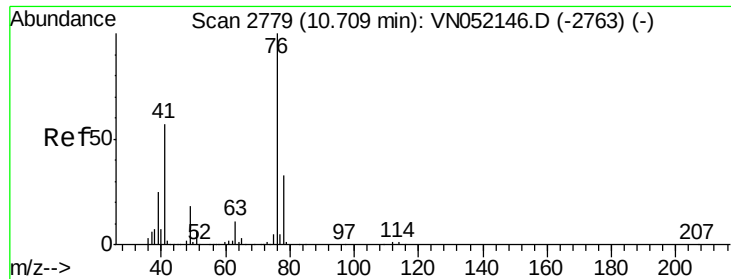
Abundance

Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#57

1,3-Dichloropropane

Concen: 19.296 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. -0.00 min

Lab File: VN052155.D

Acq: 5 Nov 2018 19:00

Instrument :

MSVOA_N

ClientSampled :

VN1105WBSD01

Tot Ion: 76 Resp: 125481

Ion Ratio Lower Upper

76 100

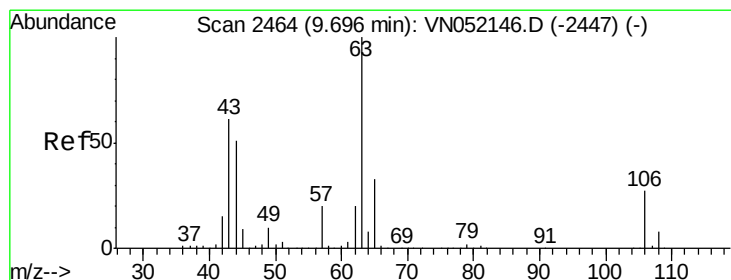
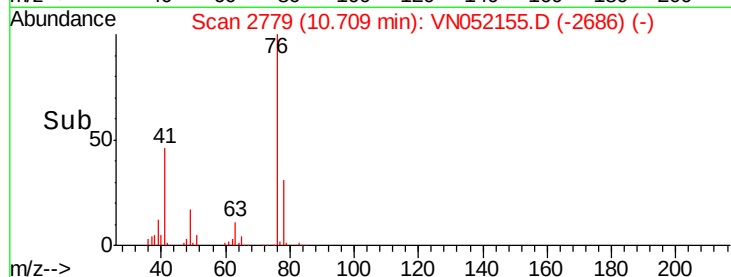
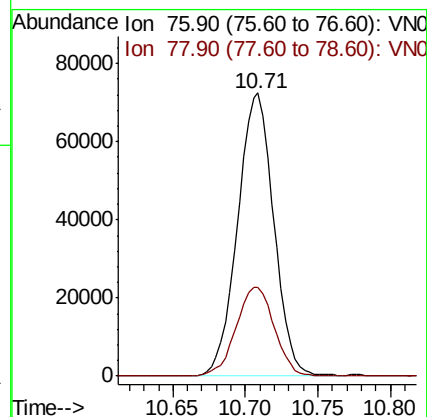
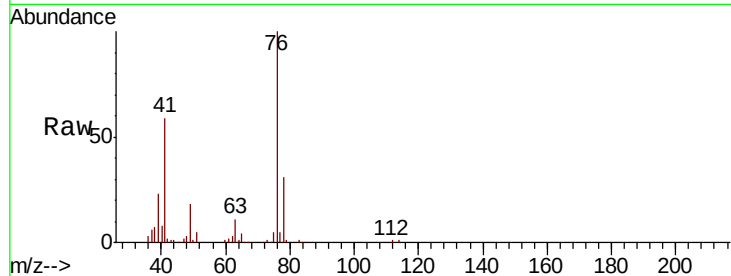
78 33.4 25.5 38.3

Manual Integrations

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MMDadoda

11/6/2018 10:00:20 AM



#58

2-Chloroethyl Vinyl ether

Concen: 105.156 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. -0.00 min

Lab File: VN052155.D

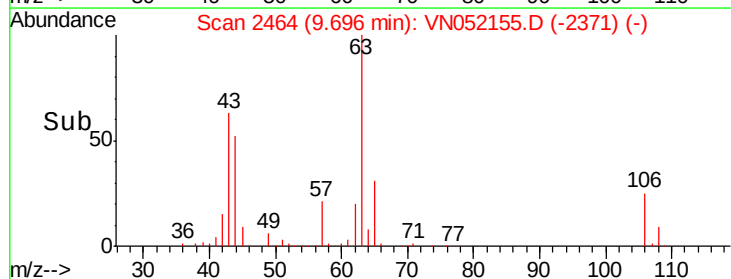
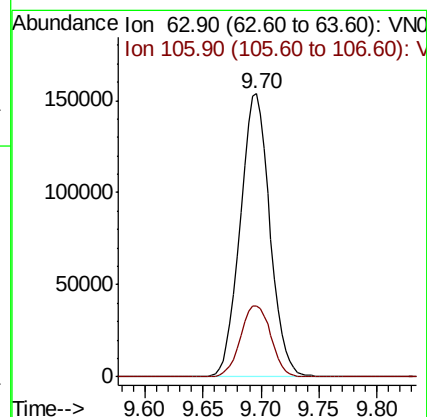
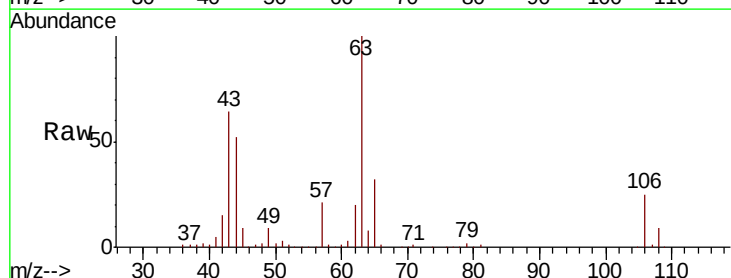
Acq: 5 Nov 2018 19:00

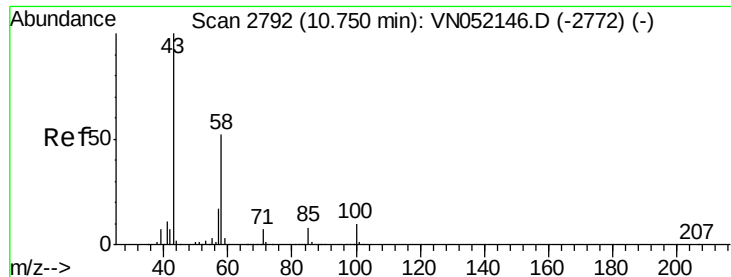
Tgt Ion: 63 Resp: 272286

Ion Ratio Lower Upper

63 100

106 25.9 21.0 31.4





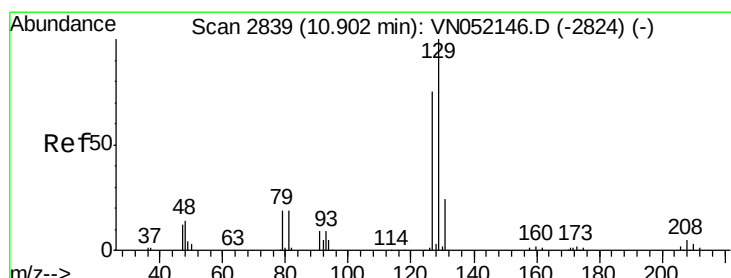
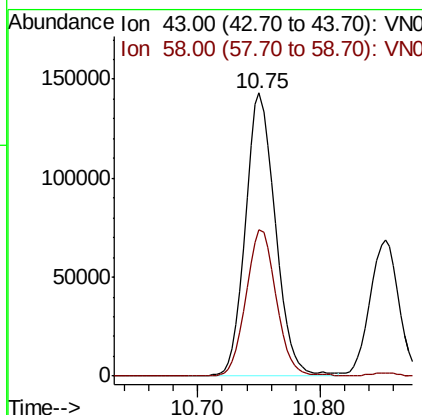
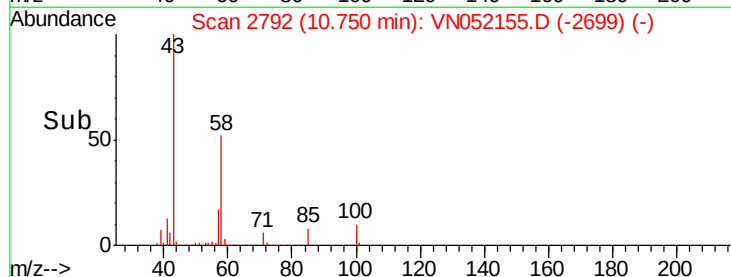
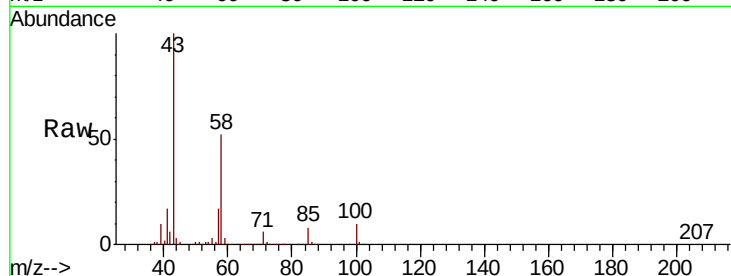
#59
2-Hexanone
Concen: 97.273 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. -0.00 min
Lab File: VN052155.D
Acq: 5 Nov 2018 19:00

Instrument :
MSVOA_N
ClientSampleId :
VN1105WBSD01

Tot Ion: 43 Resp: 241070
Ion Ratio Lower Upper
43 100
58 52.1 25.8 77.4

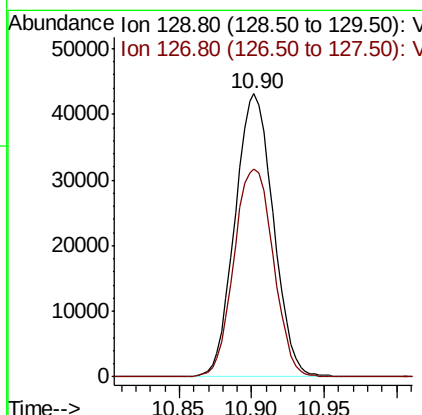
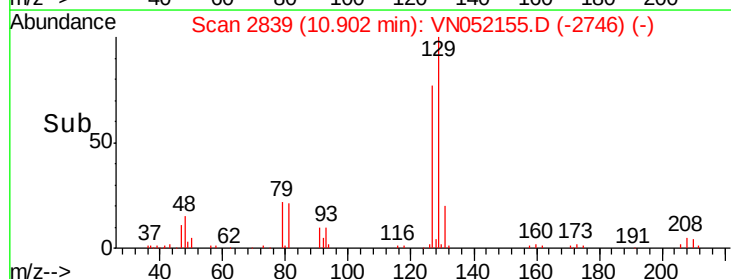
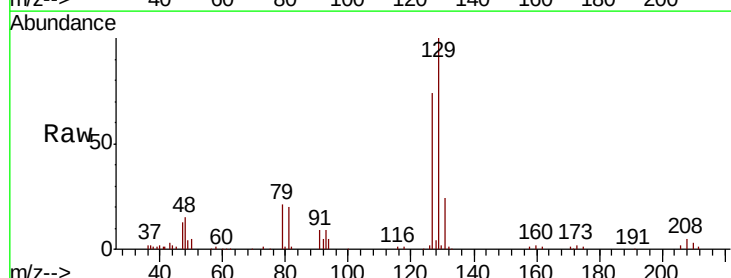
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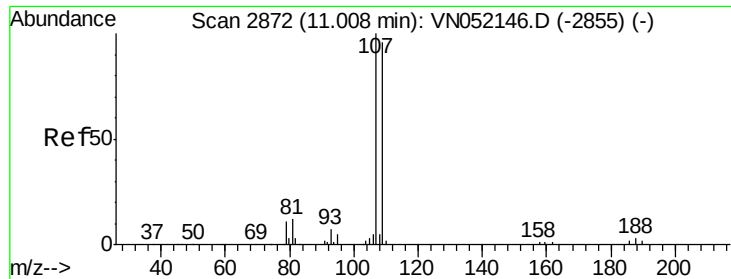
MMDadoda
11/6/2018 10:00:20 AM



#60
Dibromochloromethane
Concen: 18.875 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. -0.00 min
Lab File: VN052155.D
Acq: 5 Nov 2018 19:00

Tgt Ion: 129 Resp: 79232
Ion Ratio Lower Upper
129 100
127 75.6 38.0 114.1





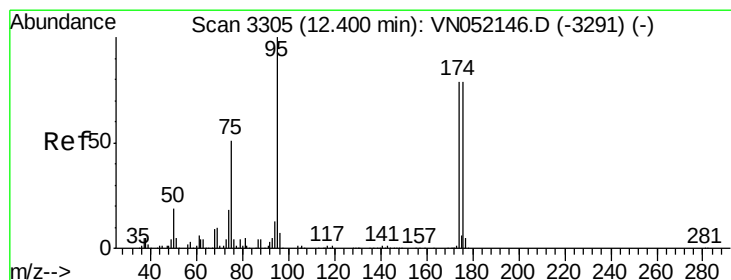
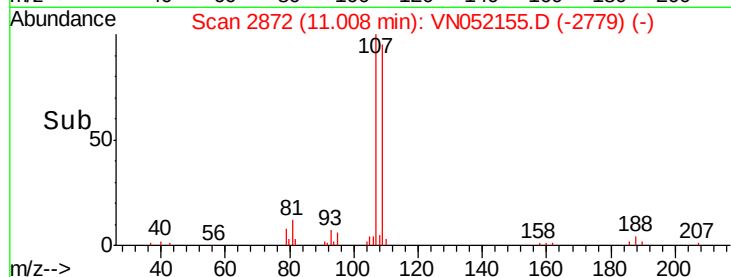
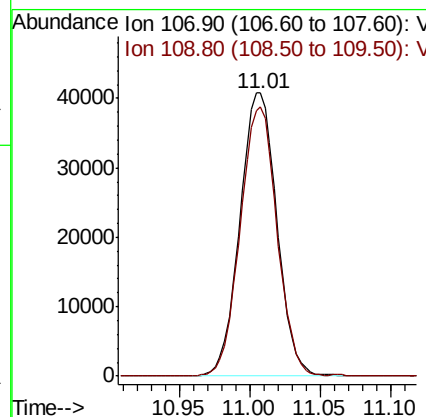
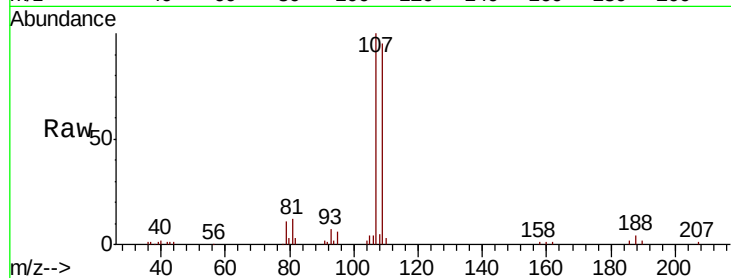
#61
 1,2-Dibromoethane
 Concen: 19.973 ug/l
 RT: 11.01 min Scan# 2872
 Delta R.T. -0.00 min
 Lab File: VN052155.D
 Acq: 5 Nov 2018 19:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1105WBSD01

Tot Ion	Ratio	Lower	Upper
107	100		
109	94.7	76.0	114.0

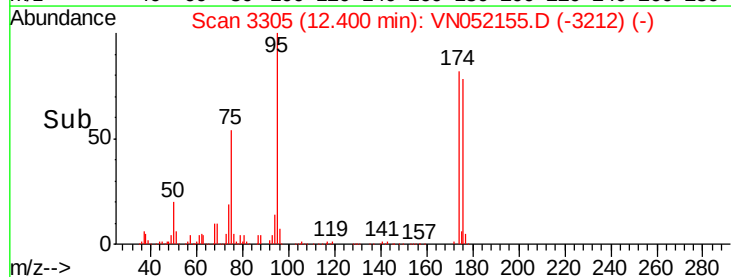
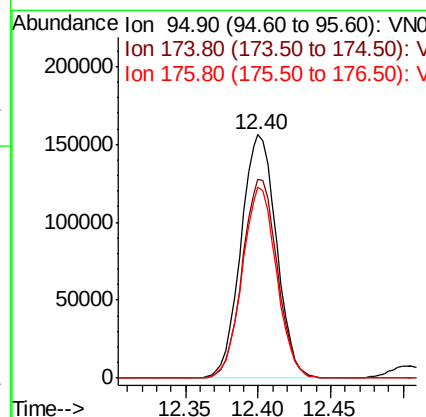
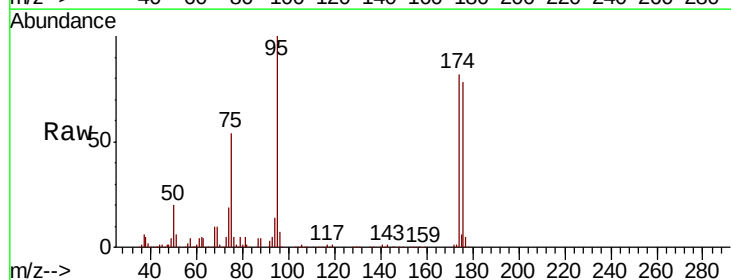
Manual Integrations
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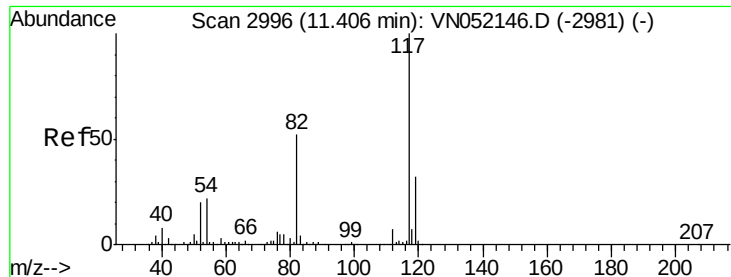
MMDadoda
 11/6/2018 10:00:20 AM



#62
 4-Bromofluorobenzene
 Concen: 19.973 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.00 min
 Lab File: VN052155.D
 Acq: 5 Nov 2018 19:00

Tgt Ion	Ratio	Lower	Upper
95	100		
174	80.5	0.0	162.6
176	76.0	0.0	155.4





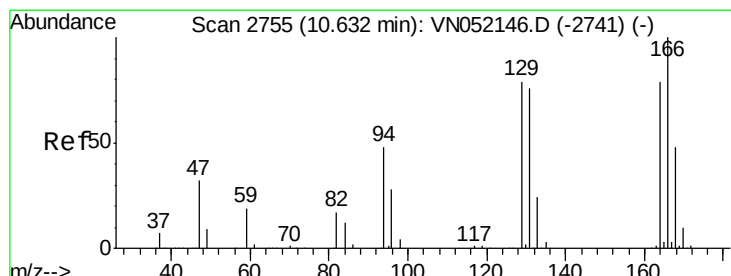
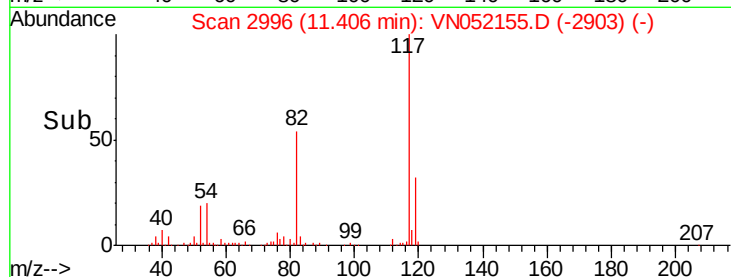
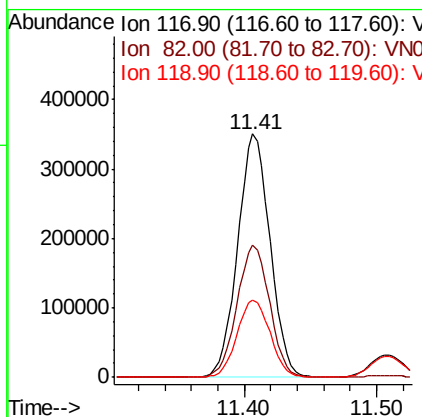
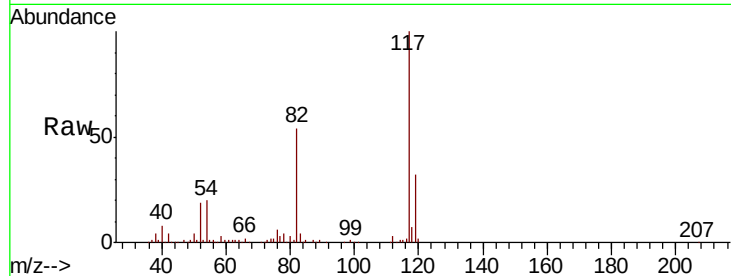
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN052155.D
Acq: 5 Nov 2018 19:00

Instrument :
MSVOA_N
ClientSampleId :
VN1105WBSD01

Tot Ion	Ratio	Lower	Upper
117	100		
82	54.3	41.9	62.9
119	32.0	25.7	38.5

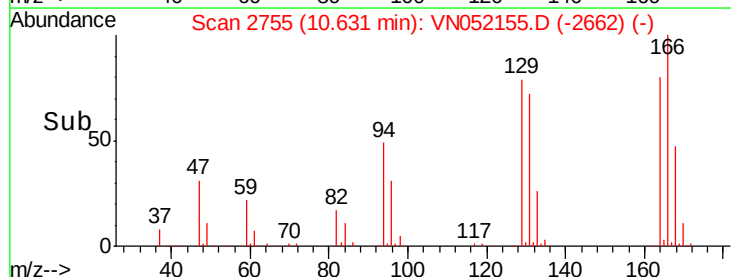
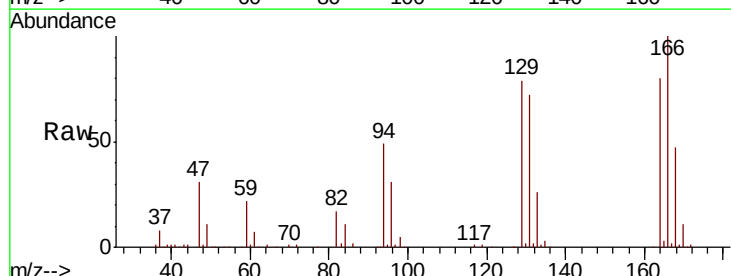
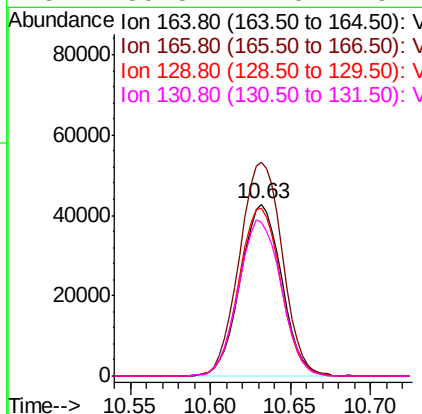
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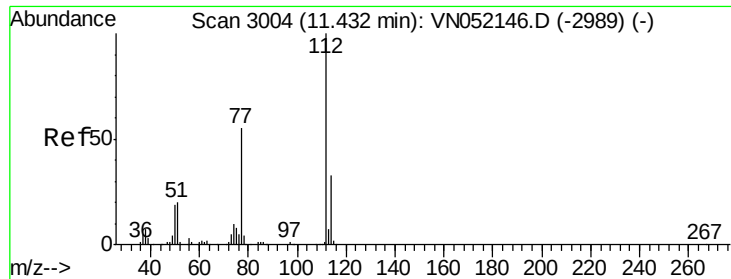
MMDadoda
11/6/2018 10:00:20 AM



#64
Tetrachloroethene
Concen: 19.622 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.00 min
Lab File: VN052155.D
Acq: 5 Nov 2018 19:00

Tgt Ion	Ratio	Lower	Upper
164	100		
166	124.2	100.8	151.2
129	97.5	79.1	118.7
131	89.3	77.0	115.4





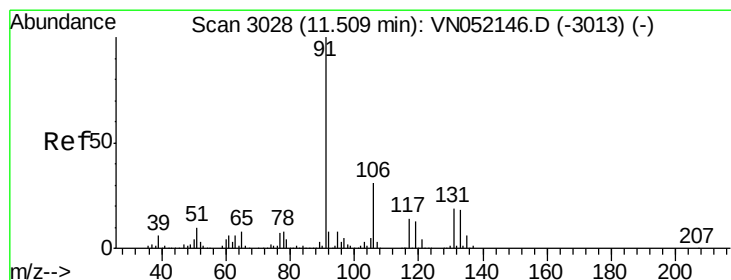
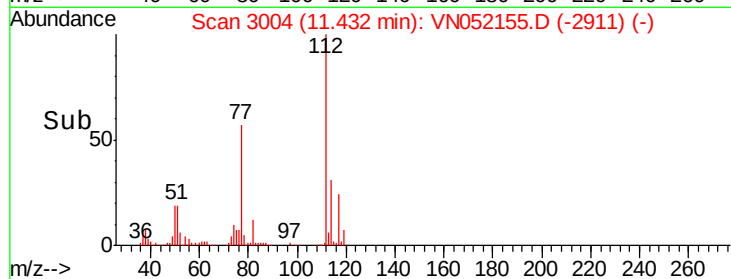
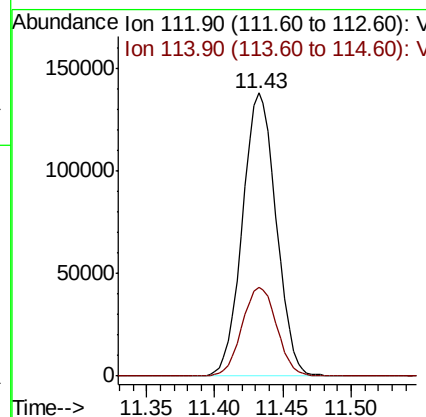
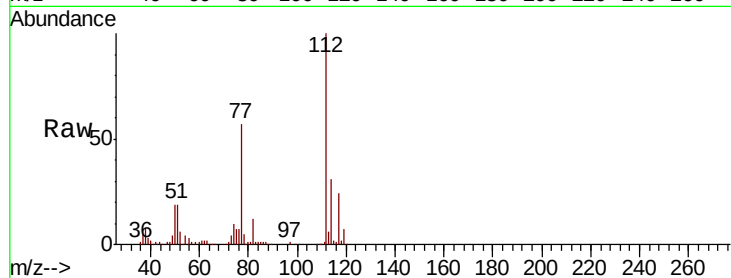
#65
Chlorobenzene
Concen: 19.528 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. -0.00 min
Lab File: VN052155.D
Acq: 5 Nov 2018 19:00

Instrument :
MSVOA_N
ClientSampleId :
VN1105WBSD01

Tot Ion	Ratio	Lower	Upper
112	100		
114	31.3	26.2	39.4

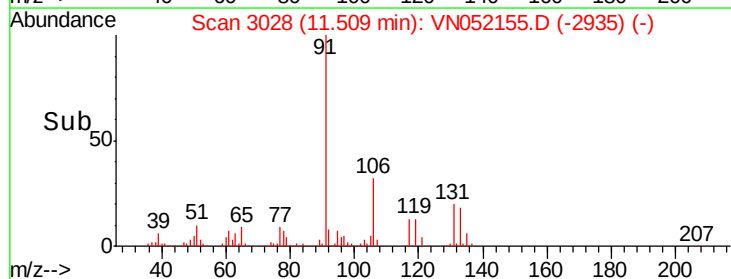
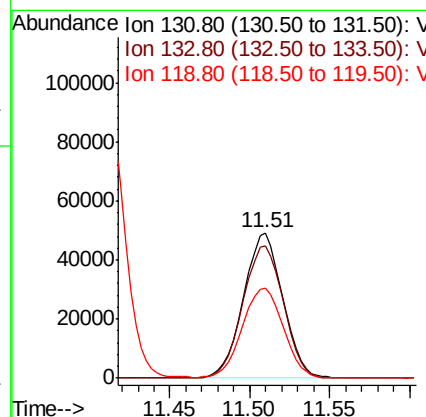
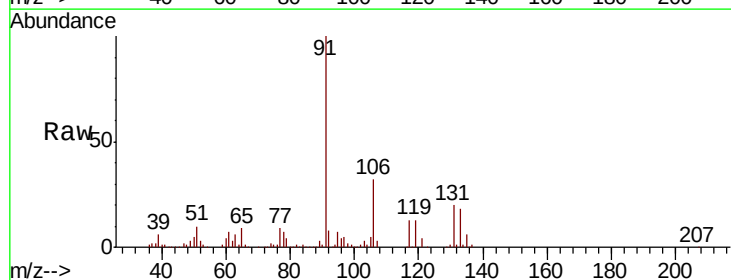
Manual Integrations
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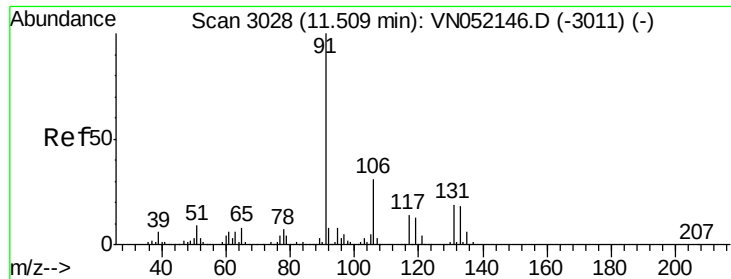
MMDadoda
11/6/2018 10:00:20 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 20.329 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN052155.D
Acq: 5 Nov 2018 19:00

Tgt Ion	Ratio	Lower	Upper
131	100		
133	93.8	46.6	139.8
119	65.1	33.6	100.8





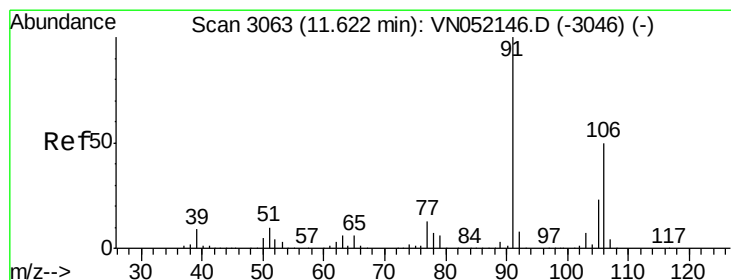
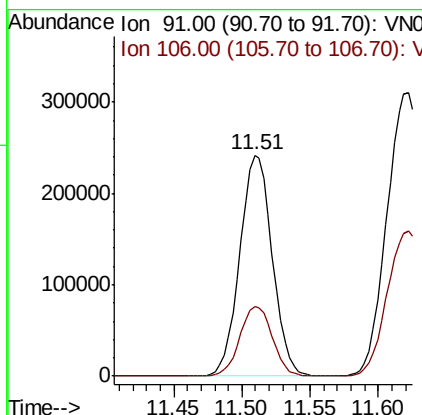
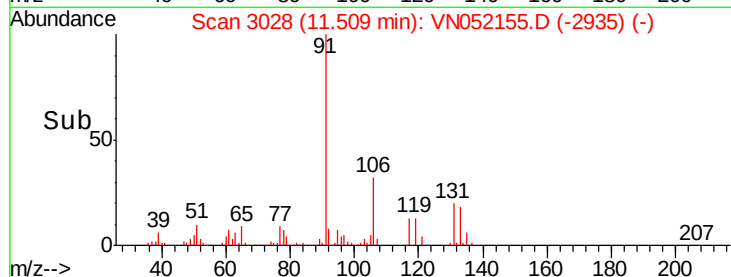
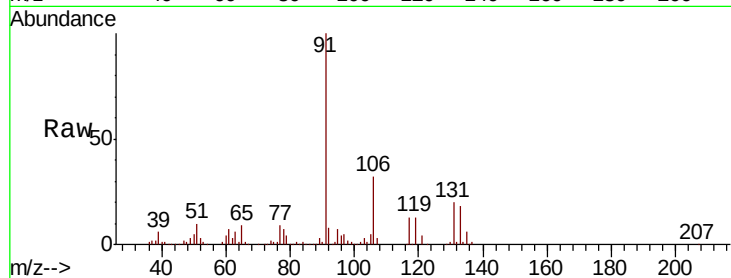
#67
Ethyl Benzene
Concen: 19.851 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN052155.D
Acq: 5 Nov 2018 19:00

Instrument :
MSVOA_N
ClientSampled :
VN1105WBSD01

Tot Ion: 91 Resp: 399097
Ion Ratio Lower Upper
91 100
106 31.5 25.1 37.7

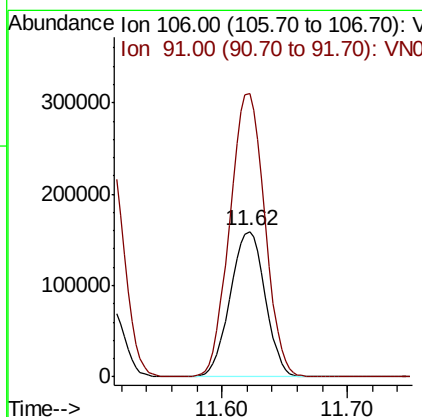
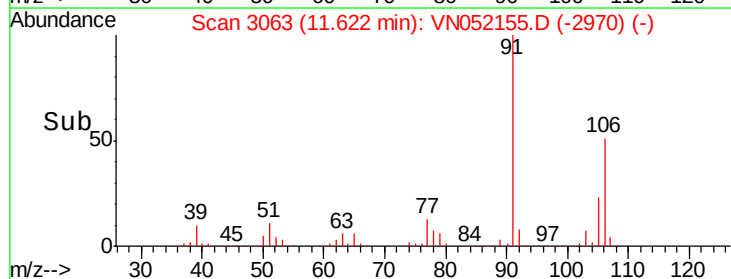
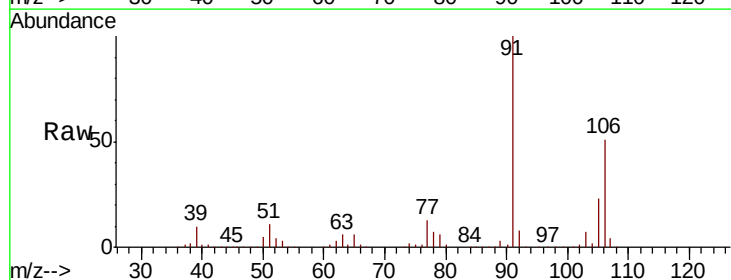
Manual Integrations
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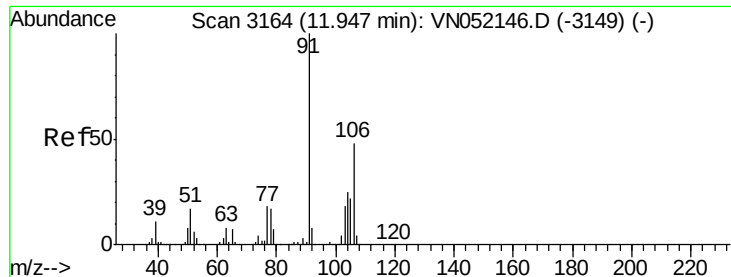
MMDadoda
11/6/2018 10:00:20 AM



#68
m/p-Xylenes
Concen: 39.732 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN052155.D
Acq: 5 Nov 2018 19:00

Tgt Ion: 106 Resp: 308215
Ion Ratio Lower Upper
106 100
91 194.3 158.2 237.4





#69

o-Xylene

Concen: 19.822 ug/l

RT: 11.95 min Scan# 3164

Delta R.T. -0.00 min

Lab File: VN052155.D

Acq: 5 Nov 2018 19:00

Instrument :

MSVOA_N

ClientSampled :

VN1105WBSD01

Tot Ion:106 Resp: 149124

Ion Ratio Lower Upper

106 100

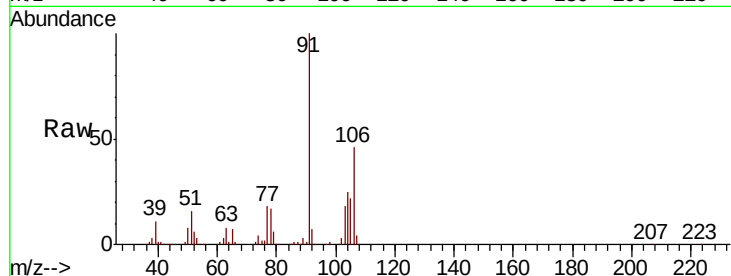
91 208.7 104.8 314.3

Manual Integrations

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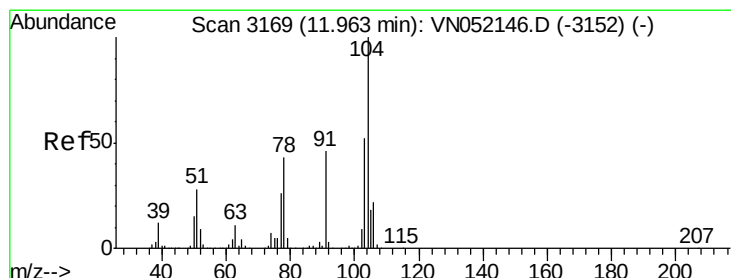
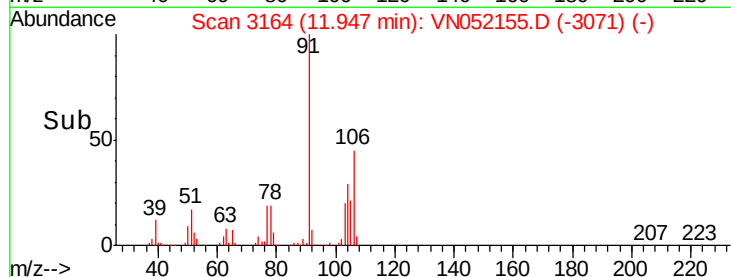
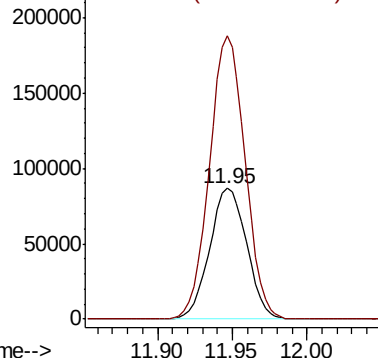
MMDadoda

11/6/2018 10:00:20 AM



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN



#70

Styrene

Concen: 19.622 ug/l

RT: 11.96 min Scan# 3169

Delta R.T. -0.00 min

Lab File: VN052155.D

Acq: 5 Nov 2018 19:00

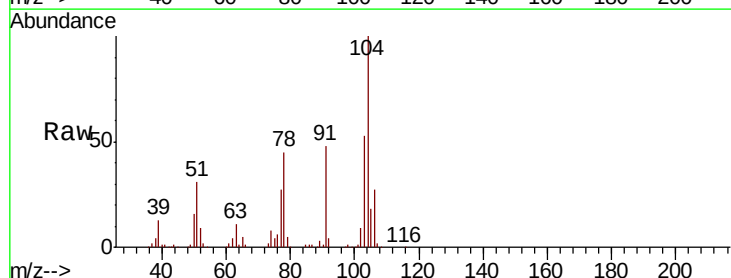
Tgt Ion:104 Resp: 233688

Ion Ratio Lower Upper

104 100

78 49.9 39.4 59.0

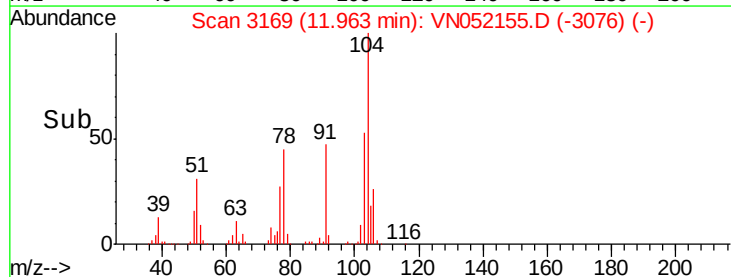
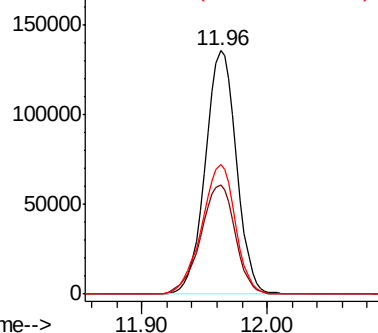
103 57.3 45.1 67.7

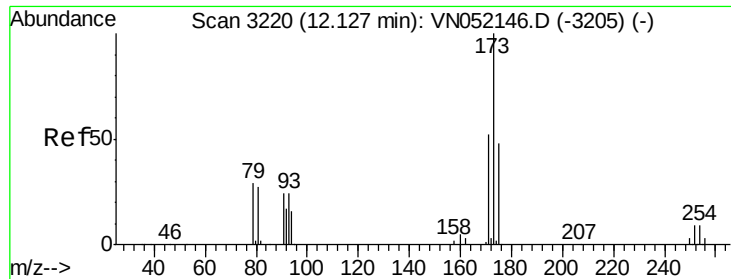


Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VN

Ion 103.00 (102.70 to 103.70): V





#71

Bromoform

Concen: 18.461 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN052155.D

Acq: 5 Nov 2018 19:00

Instrument :

MSVOA_N

ClientSampled :

VN1105WBSD01

Tot Ion:173 Resp: 44976

Ion Ratio Lower Upper

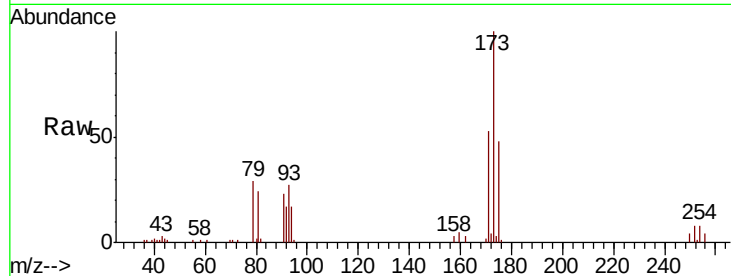
173 100

175 49.5 24.8 74.4

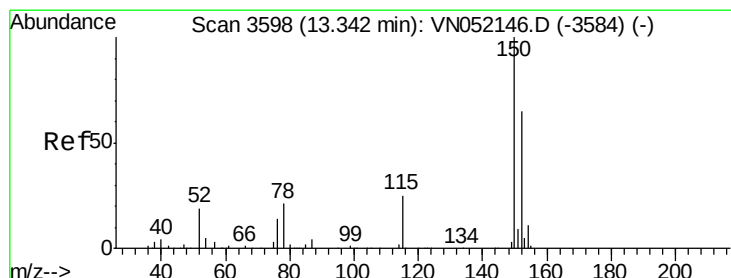
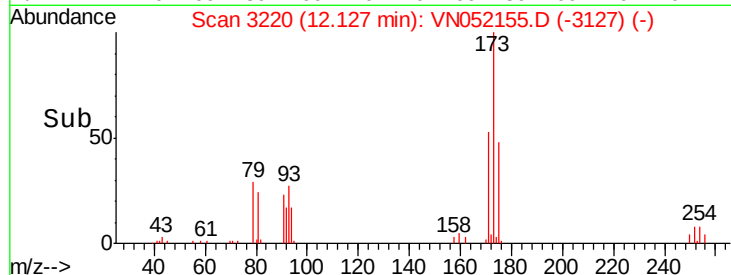
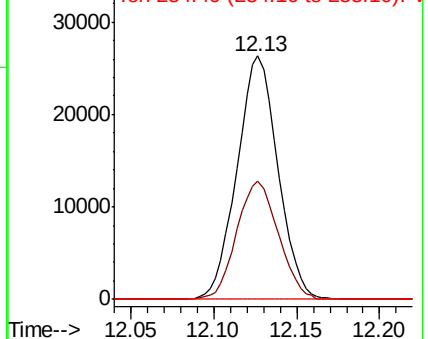
254 0.0 0.2 0.2#

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11/6/2018 10:00:20 AM



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: VN052155.D

Acq: 5 Nov 2018 19:00

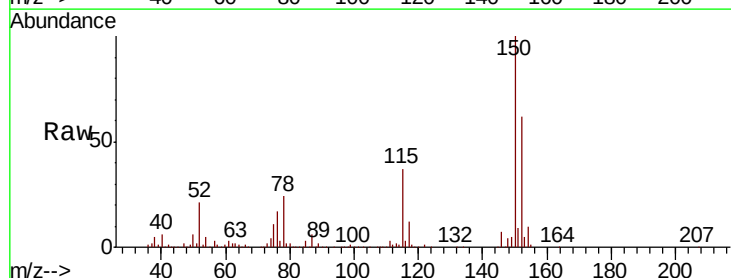
Tgt Ion:152 Resp: 260744

Ion Ratio Lower Upper

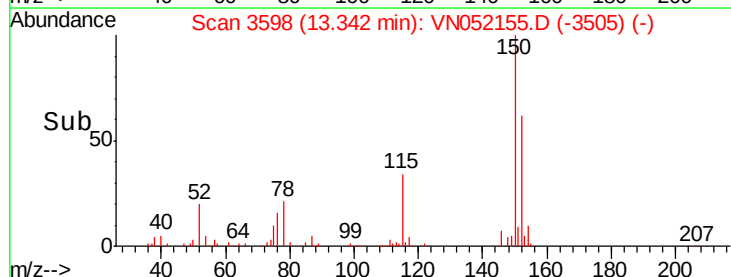
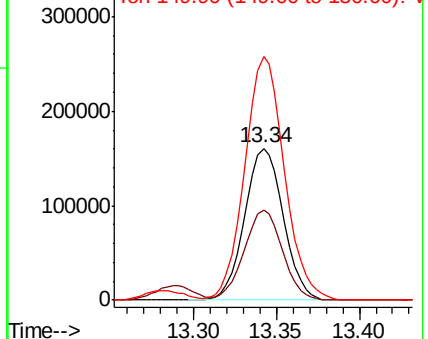
152 100

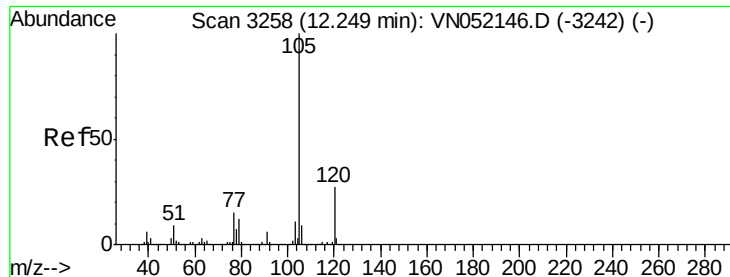
115 58.7 28.5 85.5

150 164.7 0.0 348.6



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: 19.915 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN052155.D

Acq: 5 Nov 2018 19:00

Instrument :

MSVOA_N

ClientSampleId :

VN1105WBSD01

Tot Ion: 105 Resp: 392616

Ion Ratio Lower Upper

105 100

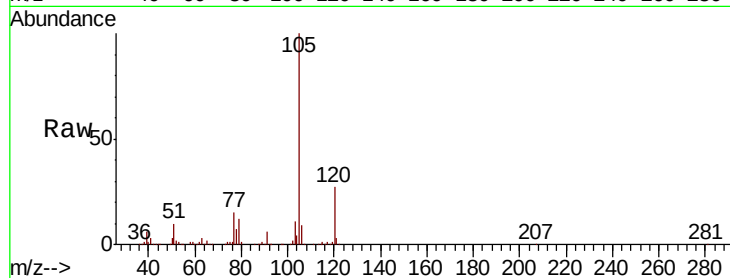
120 27.1 13.3 39.9

Manual Integrations

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MMDadoda

11/6/2018 10:00:20 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

250000

200000

150000

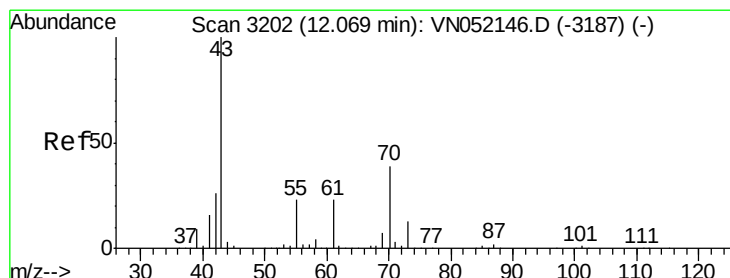
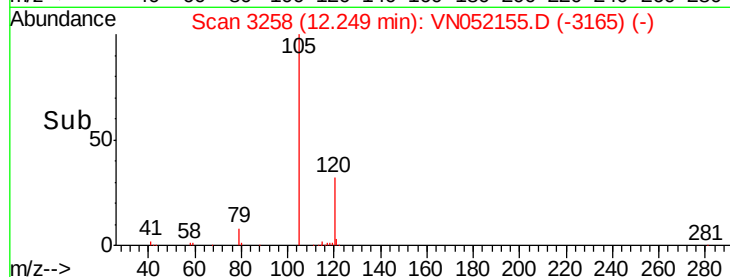
100000

50000

0

12.20 12.25 12.30

Time-->



#74

N-ethyl acetate

Concen: 19.856 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN052155.D

Acq: 5 Nov 2018 19:00

Tgt Ion: 43 Resp: 116163

Ion Ratio Lower Upper

43 100

70 39.8 31.1 46.7

55 23.4 18.5 27.7

61 21.9 18.0 27.0

Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

100000

80000

60000

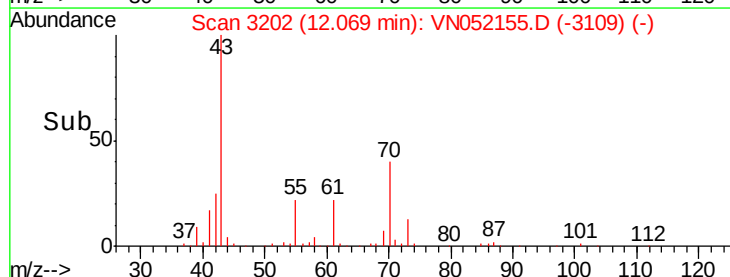
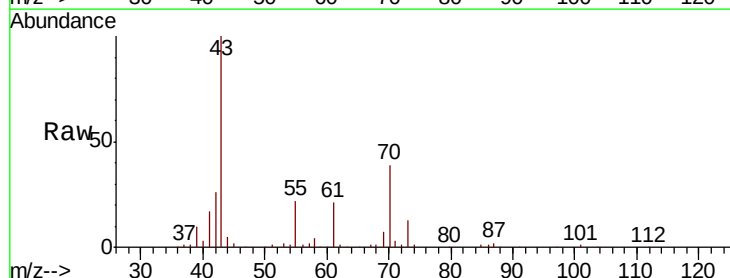
40000

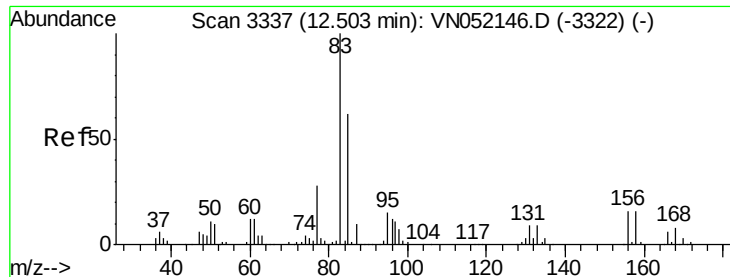
20000

0

12.00 12.05 12.10

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 20.409 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. -0.00 min

Lab File: VN052155.D

Acq: 5 Nov 2018 19:00

Instrument :

MSVOA_N

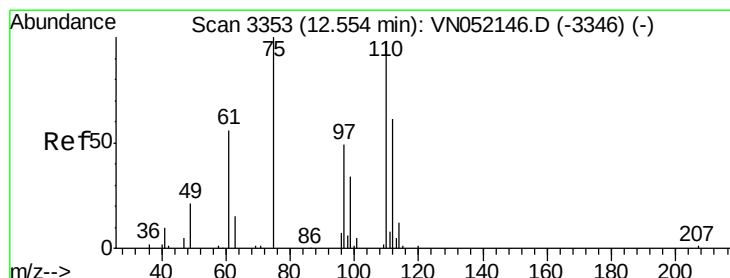
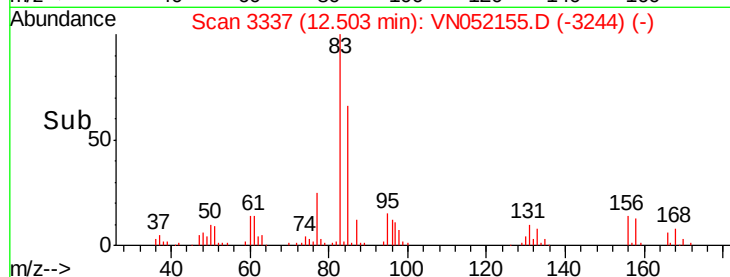
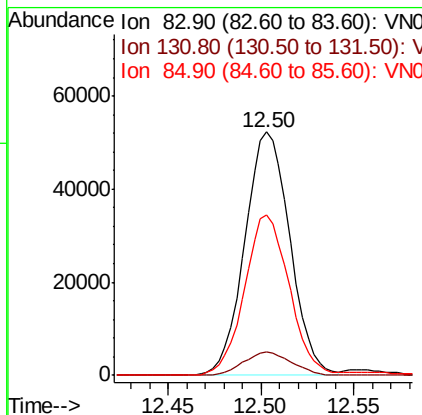
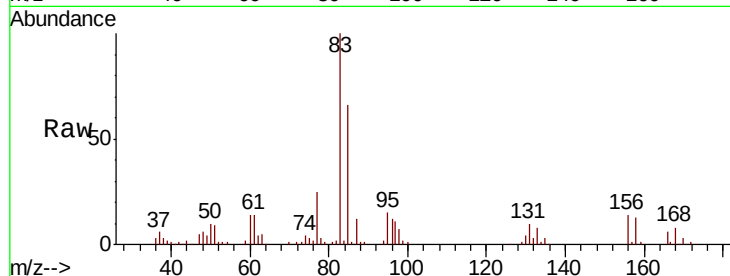
ClientSampleId :

VN1105WBSD01

Tot Ion:	83	Resp:	88072
Ion Ratio	Lower	Upper	
83	100		
131	10.2	5.0	14.9
85	65.3	31.8	95.3

Manual Integrations
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MMDadoda
11/6/2018 10:00:20 AM



#76

1,2,3-Trichloropropane

Concen: 20.918 ug/l m

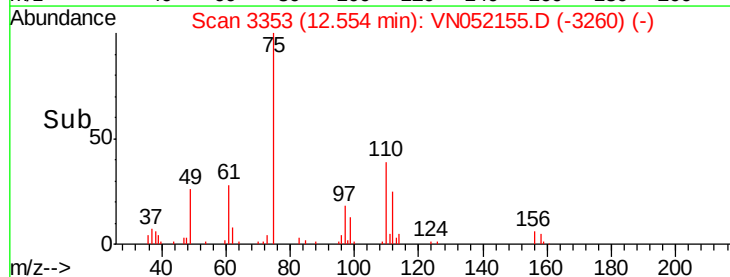
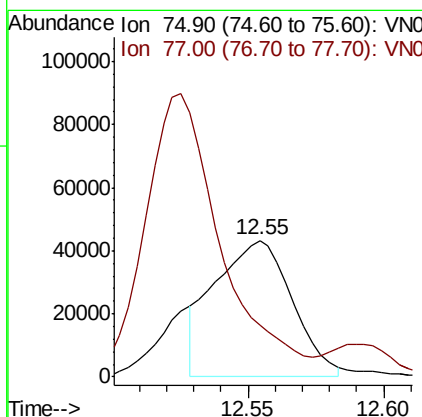
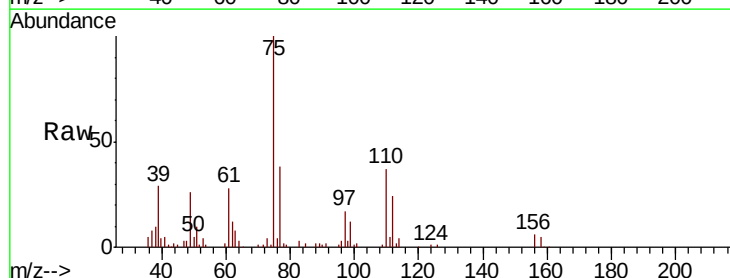
RT: 12.55 min Scan# 3353

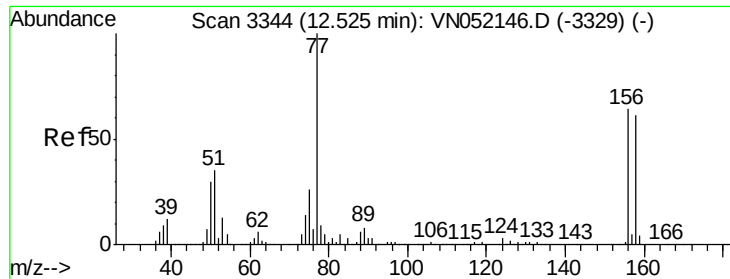
Delta R.T. -0.00 min

Lab File: VN052155.D

Acq: 5 Nov 2018 19:00

Tgt Ion:	75	Resp:	85835
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 19.868 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN052155.D

Acq: 5 Nov 2018 19:00

Instrument :

MSVOA_N

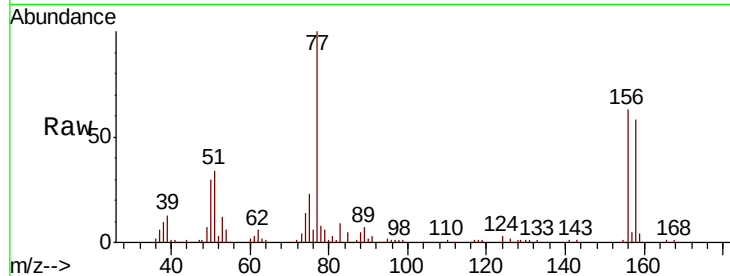
ClientSampleId :

VN1105WBSD01

Tot Ion:	156	Resp:	93402
Ion Ratio	Lower	Upper	
156	100		
77	187.4	91.6	274.9
158	94.3	48.1	144.3

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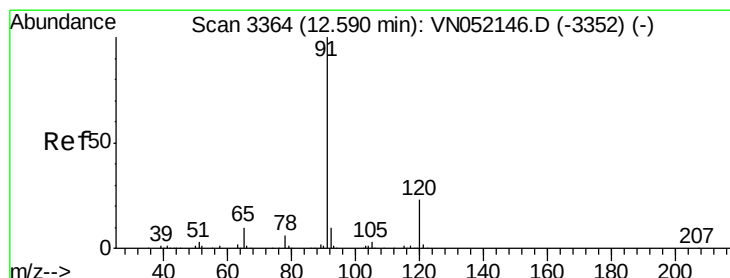
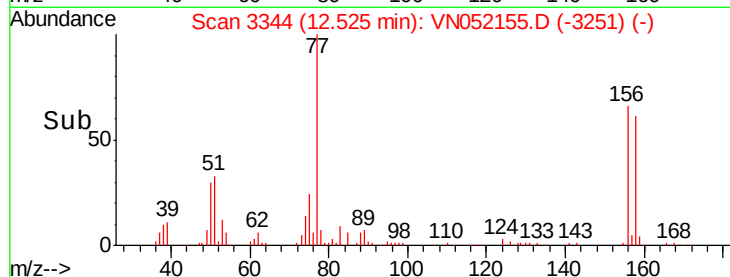
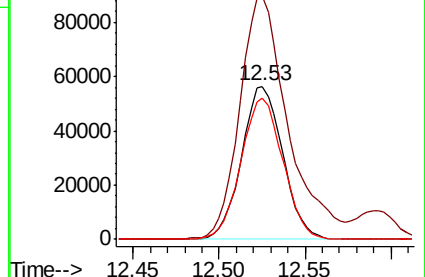
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Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 19.647 ug/l

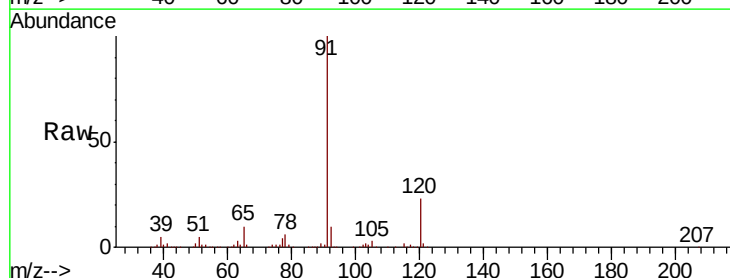
RT: 12.59 min Scan# 3364

Delta R.T. -0.00 min

Lab File: VN052155.D

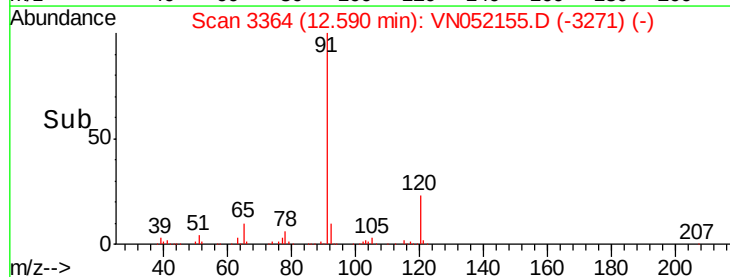
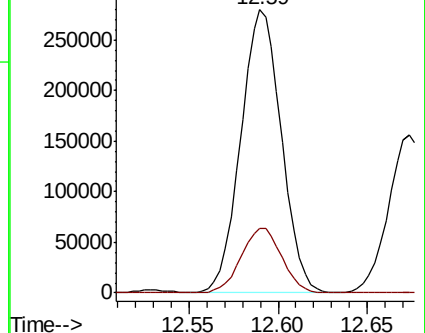
Acq: 5 Nov 2018 19:00

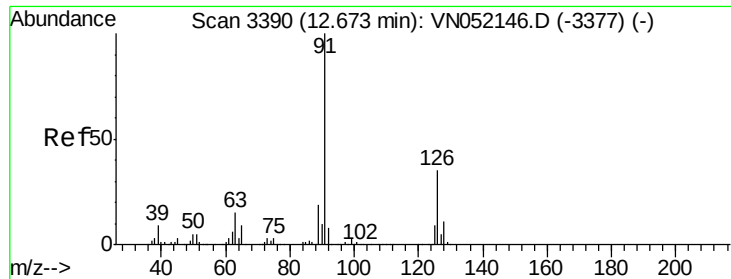
Tgt Ion:	91	Resp:	442665
Ion Ratio	Lower	Upper	
91	100		
120	23.0	11.9	35.7



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 19.453 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN052155.D

Acq: 5 Nov 2018 19:00

Instrument :

MSVOA_N

ClientSampleId :

VN1105WBSD01

Tot Ion: 91 Resp: 257023

Ion Ratio Lower Upper

91 100

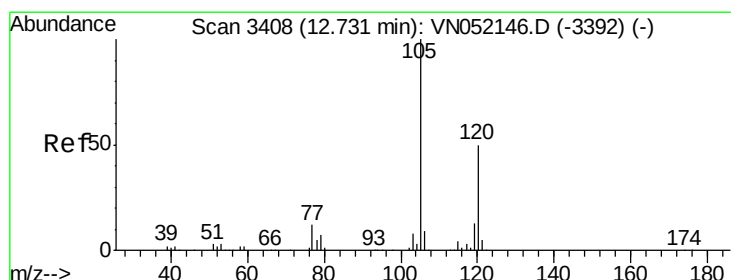
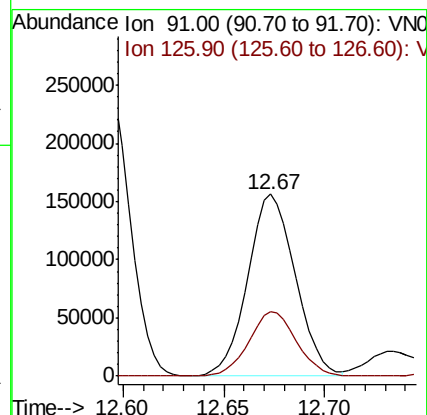
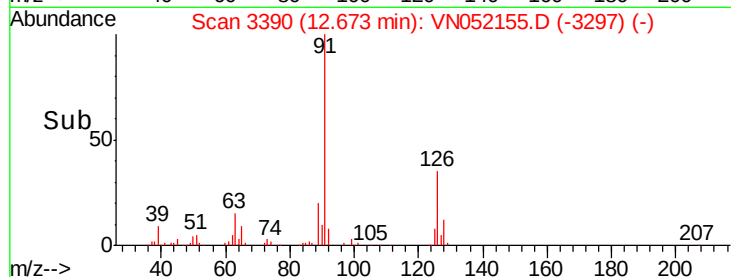
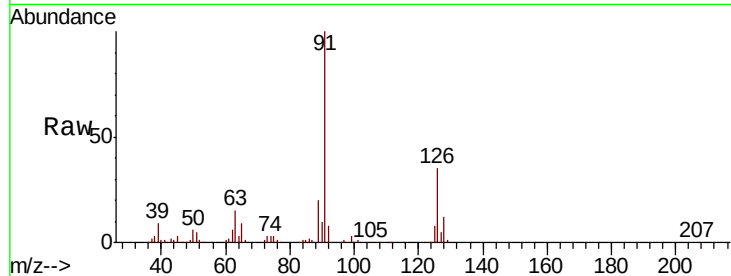
126 35.5 18.0 54.0

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#80

1,3,5-Trimethylbenzene

Concen: 19.605 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN052155.D

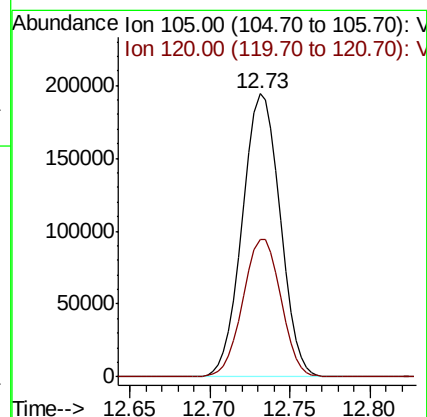
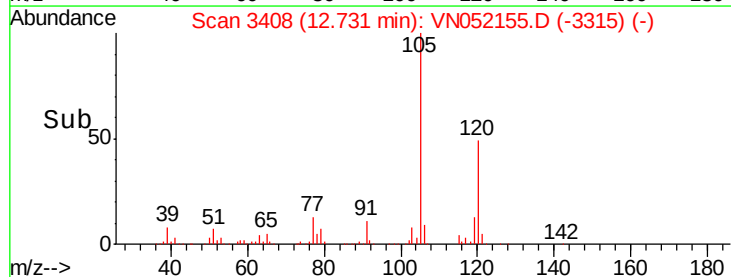
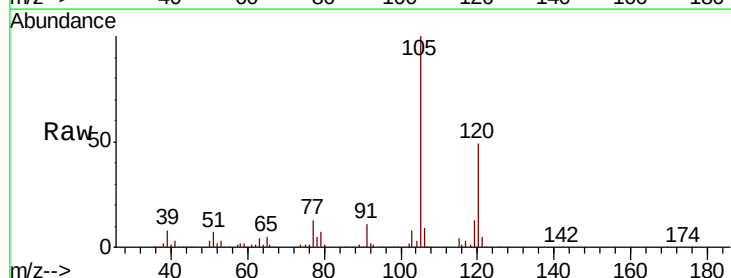
Acq: 5 Nov 2018 19:00

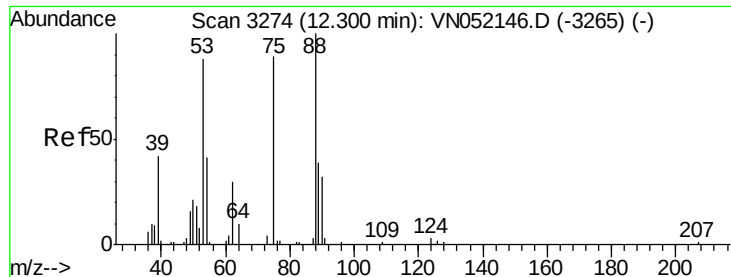
Tgt Ion: 105 Resp: 312860

Ion Ratio Lower Upper

105 100

120 49.1 24.9 74.6





#81

trans-1,4-Dichloro-2-butene

Concen: 17.607 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. -0.00 min

Lab File: VN052155.D

Acq: 5 Nov 2018 19:00

Instrument :

MSVOA_N

ClientSampleId :

VN1105WBSD01

Tot Ion: 75 Resp: 20178

Ion Ratio Lower Upper

75 100

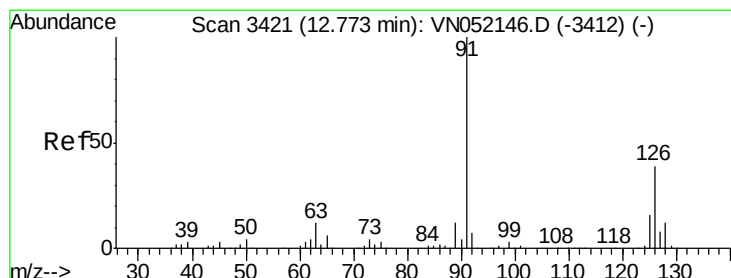
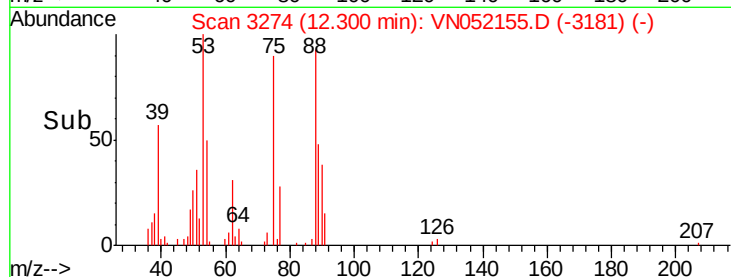
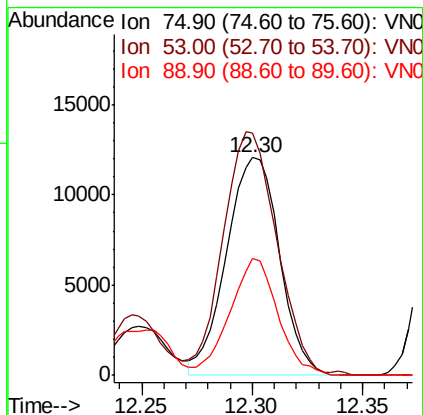
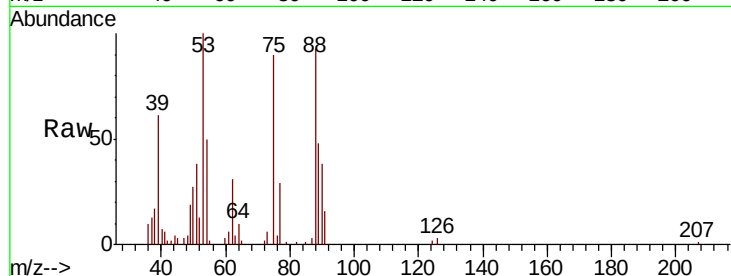
53 113.9 79.4 119.0

89 48.6 35.8 53.8

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#82

4-Chlorotoluene

Concen: 19.632 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. -0.00 min

Lab File: VN052155.D

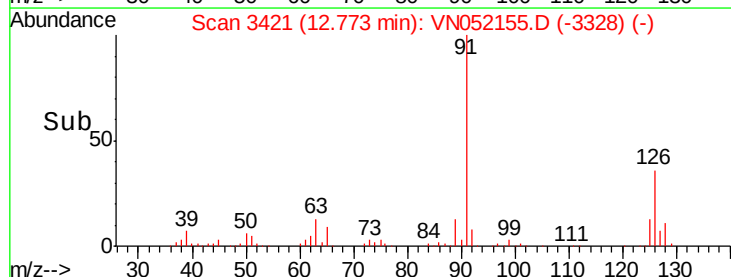
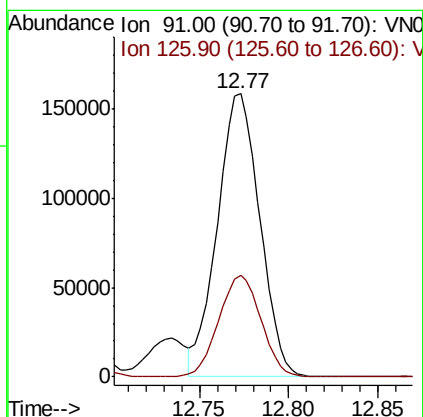
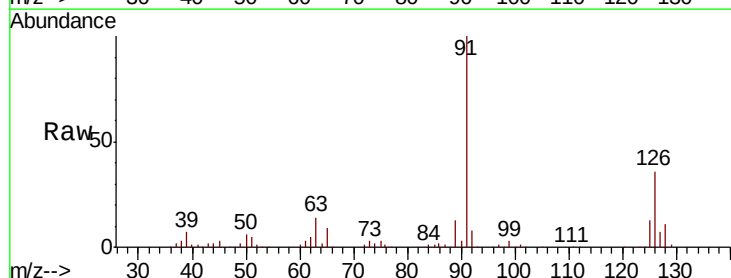
Acq: 5 Nov 2018 19:00

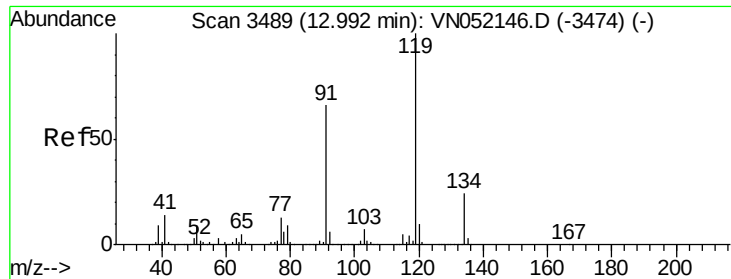
Tgt Ion: 91 Resp: 260701

Ion Ratio Lower Upper

91 100

126 35.9 17.8 53.5





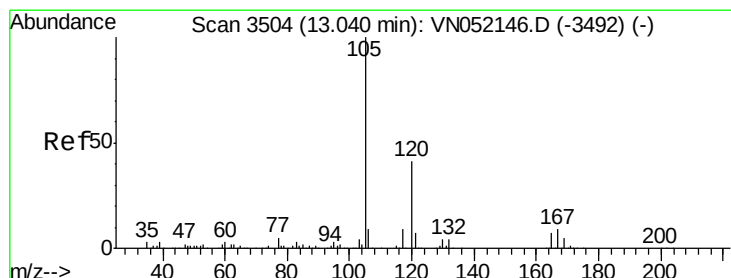
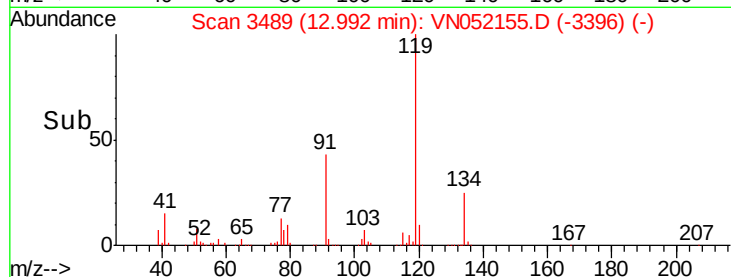
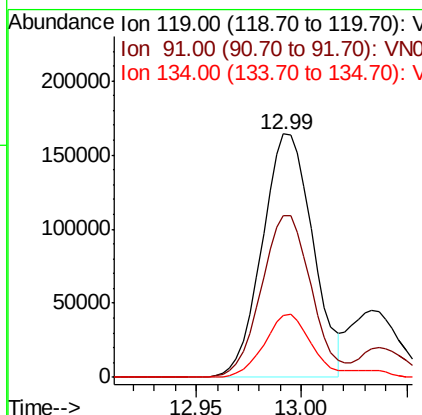
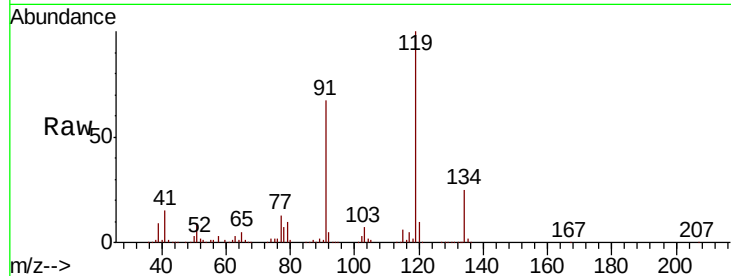
#83
 tert-Butylbenzene
 Concen: 19.470 ug/l
 RT: 12.99 min Scan# 3489
 Delta R.T. -0.00 min
 Lab File: VN052155.D
 Acq: 5 Nov 2018 19:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1105WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	274355		
91	65.6	32.3	96.8	
134	24.1	13.0	38.9	

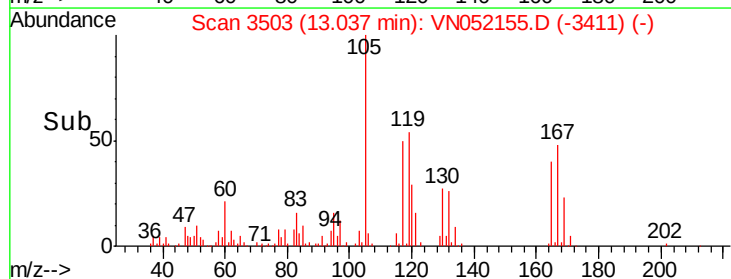
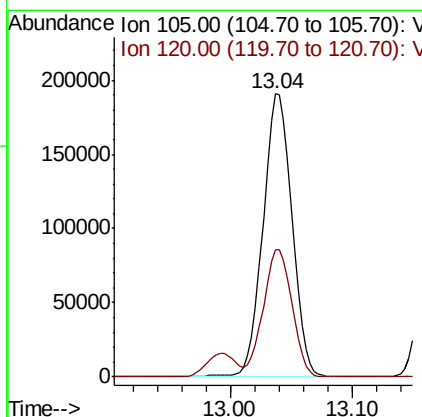
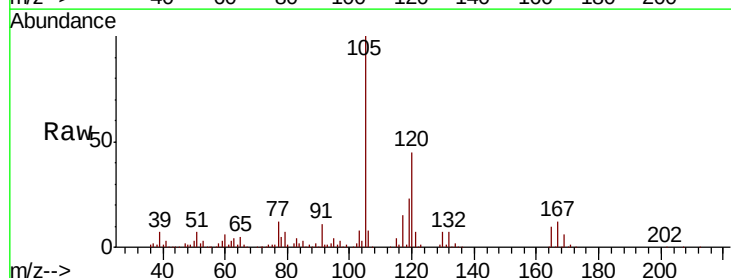
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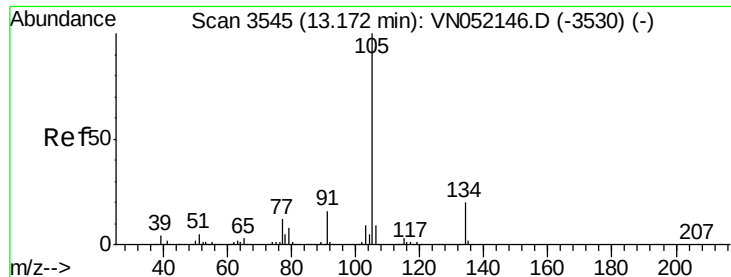
MMDadoda
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#84
 1,2,4-Trimethylbenzene
 Concen: 19.896 ug/l
 RT: 13.04 min Scan# 3503
 Delta R.T. -0.00 min
 Lab File: VN052155.D
 Acq: 5 Nov 2018 19:00

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	316054		
120	44.6	23.2	69.5	





#85

sec-Butylbenzene

Concen: 19.609 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. -0.00 min

Lab File: VN052155.D

Acq: 5 Nov 2018 19:00

Instrument :

MSVOA_N

ClientSampleId :

VN1105WBSD01

Tot Ion:105 Resp: 373628

Ion Ratio Lower Upper

105 100

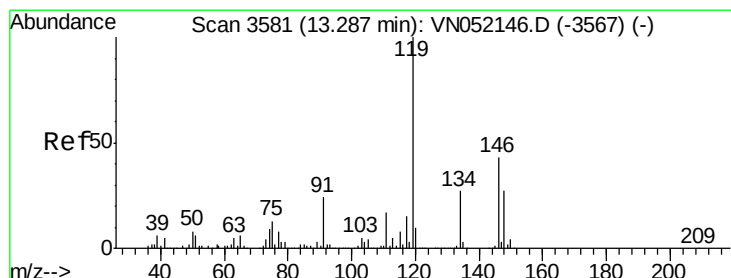
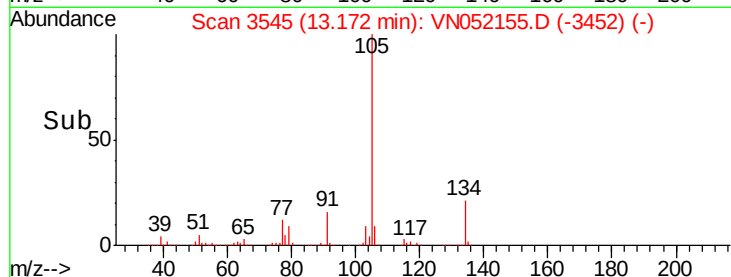
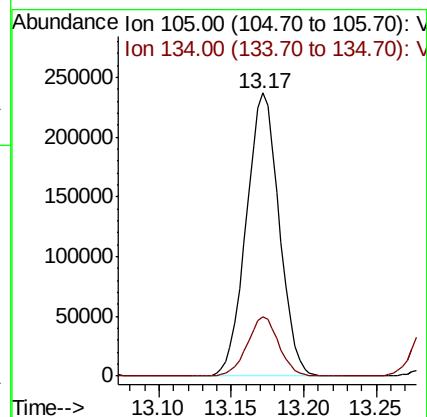
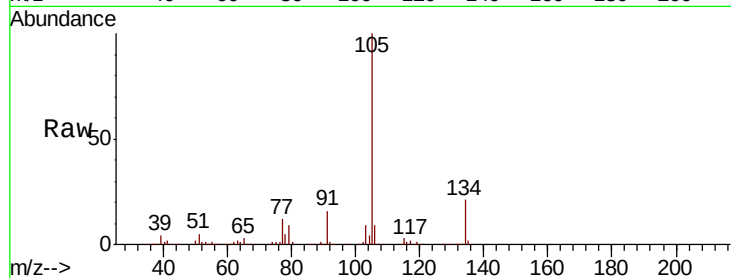
134 20.1 10.2 30.4

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#86

p-Isopropyltoluene

Concen: 19.904 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. -0.00 min

Lab File: VN052155.D

Acq: 5 Nov 2018 19:00

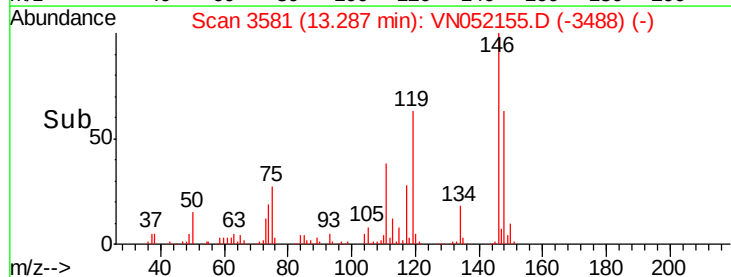
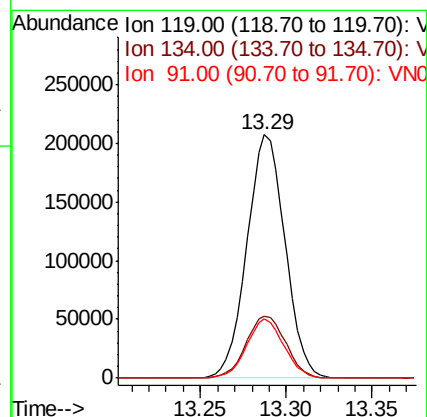
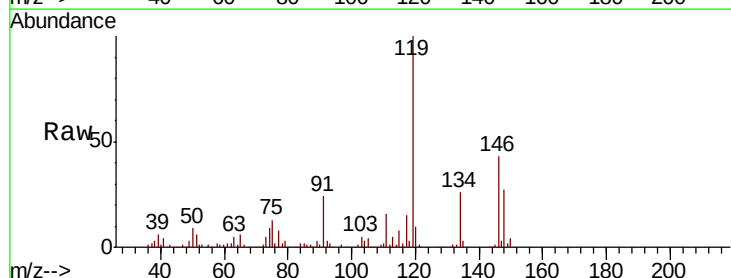
Tgt Ion:119 Resp: 319199

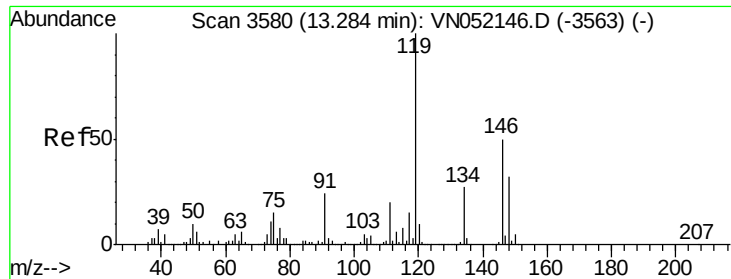
Ion Ratio Lower Upper

119 100

134 26.5 13.5 40.5

91 23.6 11.9 35.7





#87

1,3-Dichlorobenzene

Concen: 19.542 ug/l

RT: 13.28 min Scan# 3579

Delta R.T. -0.00 min

Lab File: VN052155.D

Acq: 5 Nov 2018 19:00

Instrument :

MSVOA_N

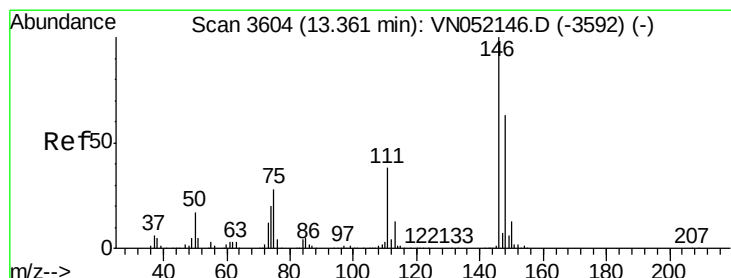
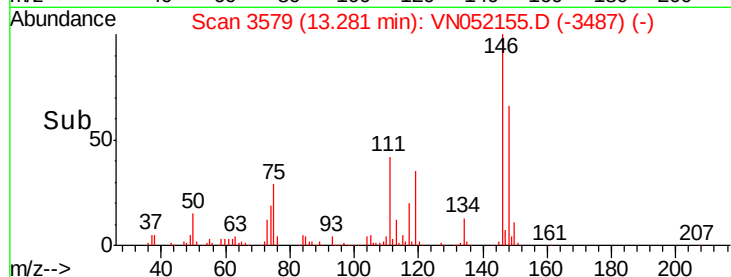
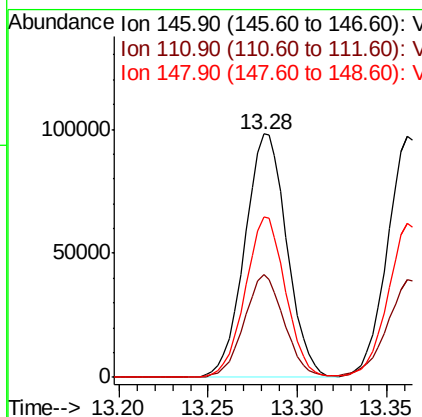
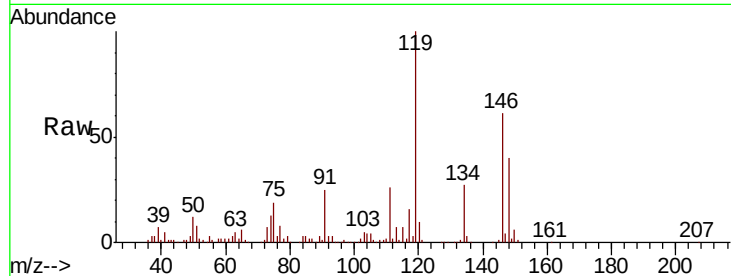
ClientSampleId :

VN1105WBSD01

Tot Ion:	146	Resp:	162354
Ion Ratio	Lower	Upper	
146	100		
111	40.0	20.2	60.6
148	63.0	32.1	96.3

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#88

1,4-Dichlorobenzene

Concen: 19.330 ug/l

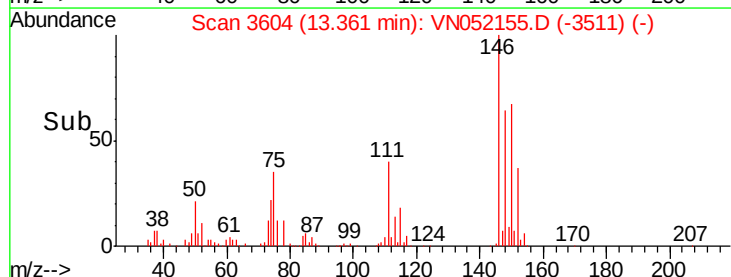
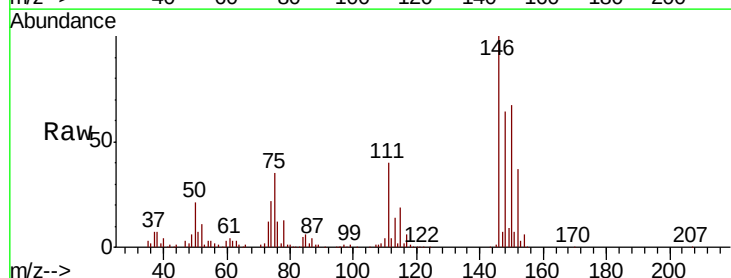
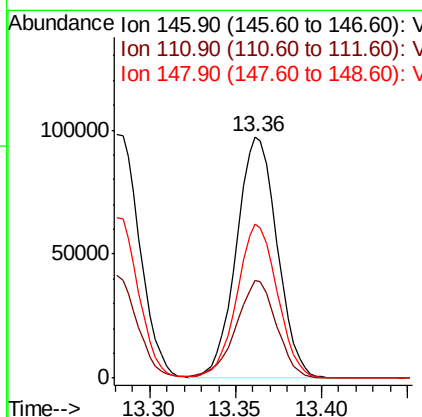
RT: 13.36 min Scan# 3604

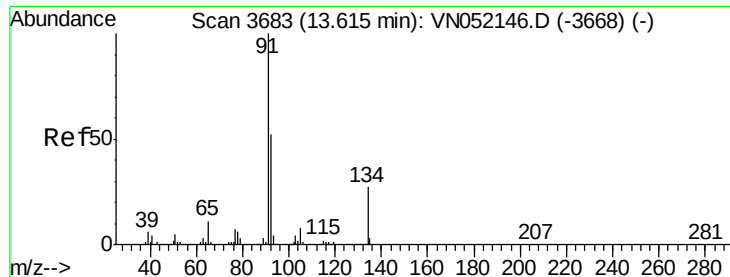
Delta R.T. -0.00 min

Lab File: VN052155.D

Acq: 5 Nov 2018 19:00

Tgt Ion:	146	Resp:	160517
Ion Ratio	Lower	Upper	
146	100		
111	40.3	19.4	58.1
148	63.2	31.5	94.5





#89

n-Butylbenzene

Concen: 18.672 ug/l

RT: 13.61 min Scan# 3682

Delta R.T. -0.00 min

Lab File: VN052155.D

Acq: 5 Nov 2018 19:00

Instrument :

MSVOA_N

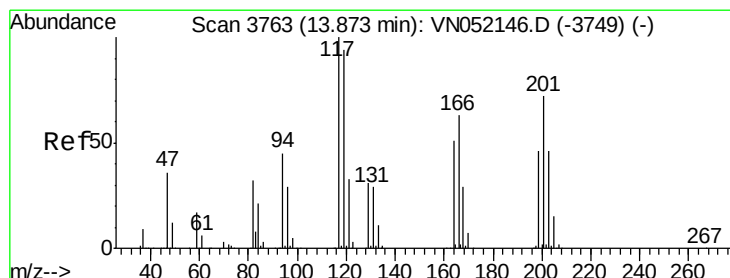
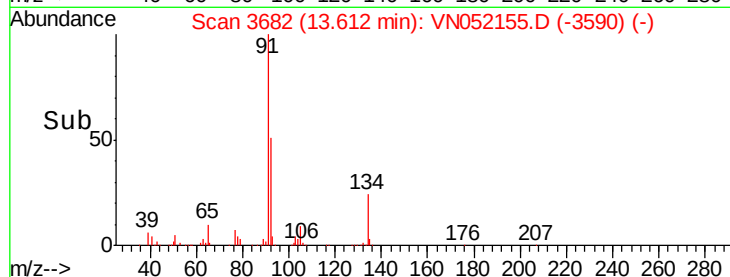
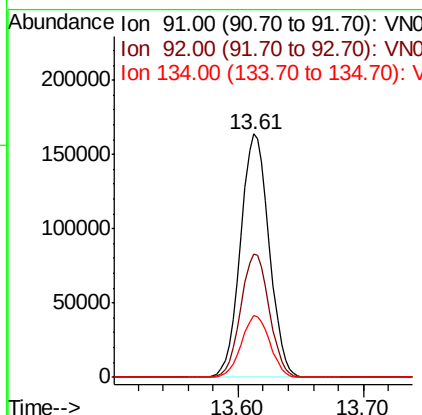
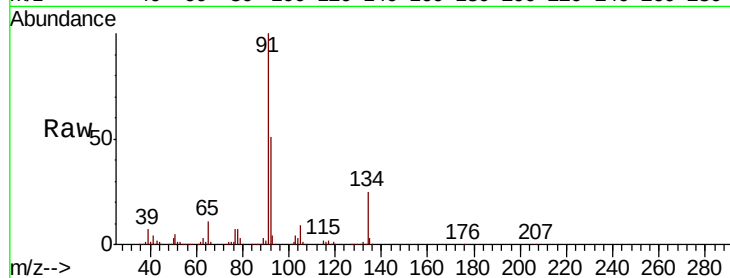
ClientSampleId :

VN1105WBSD01

Tot Ion:	91	Resp:	259294
Ion	Ratio	Lower	Upper
91	100		
92	50.3	26.3	78.8
134	25.1	13.4	40.2

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#90

Hexachloroethane

Concen: 19.007 ug/l

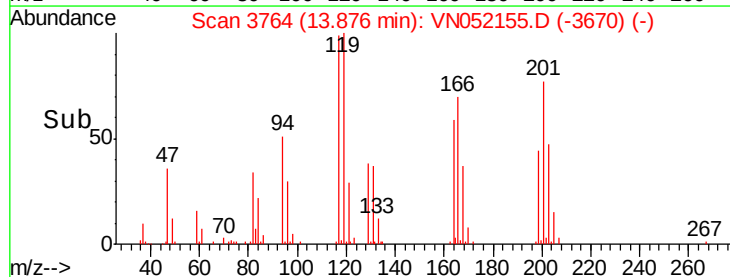
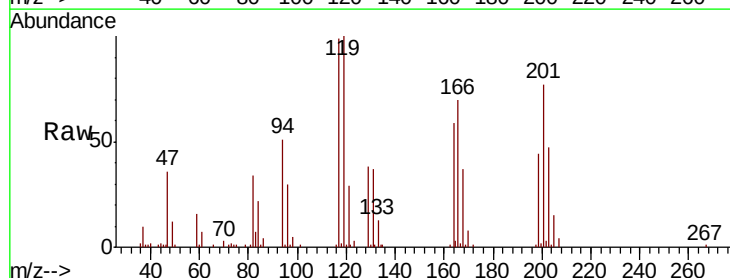
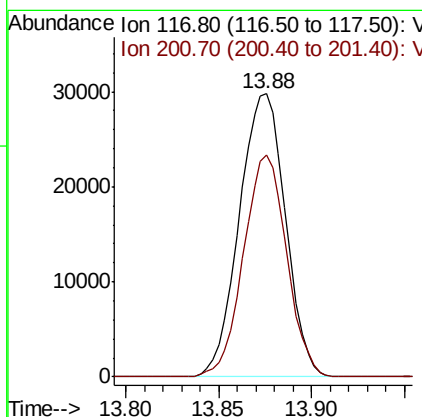
RT: 13.88 min Scan# 3764

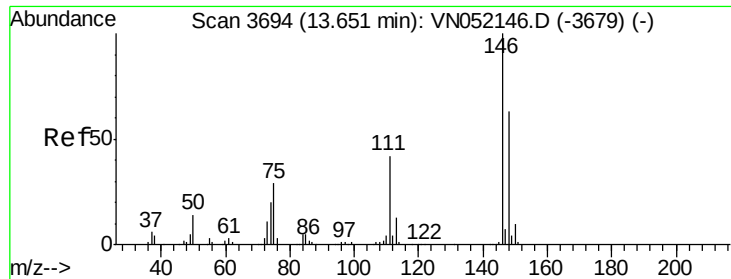
Delta R.T. 0.00 min

Lab File: VN052155.D

Acq: 5 Nov 2018 19:00

Tgt Ion:	117	Resp:	51373
Ion	Ratio	Lower	Upper
117	100		
201	73.2	36.8	110.3





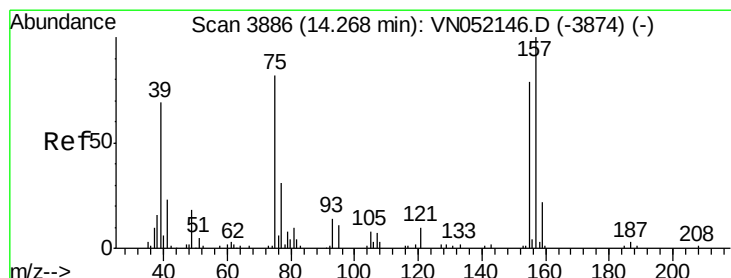
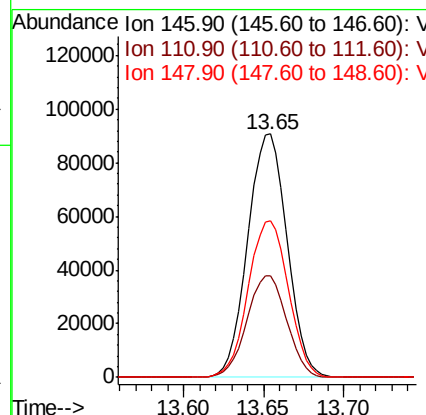
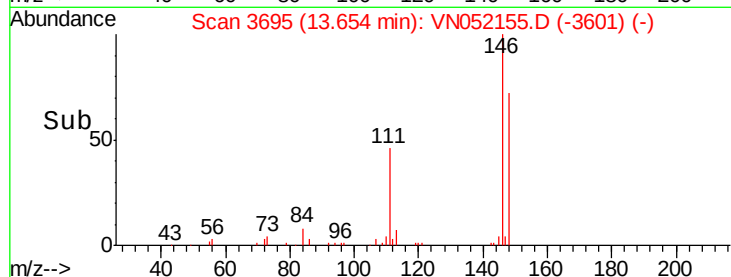
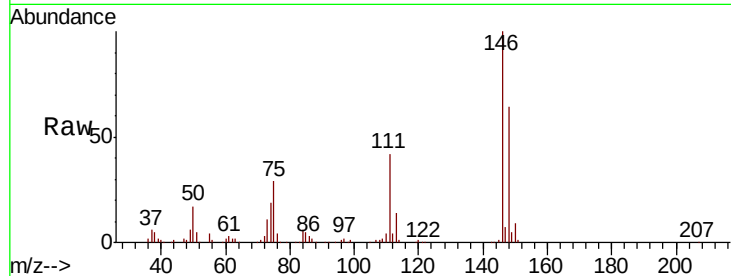
#91
 1,2-Dichlorobenzene
 Concen: 19.537 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN052155.D
 Acq: 5 Nov 2018 19:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1105WBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.3	21.1	63.1
148	65.6	31.4	94.3

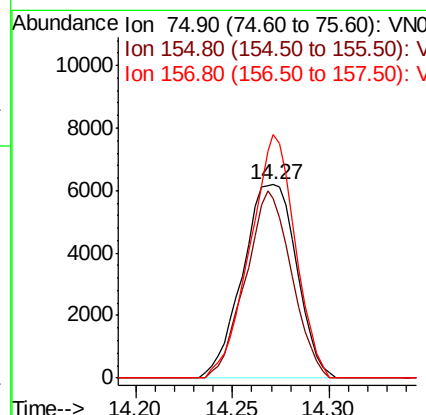
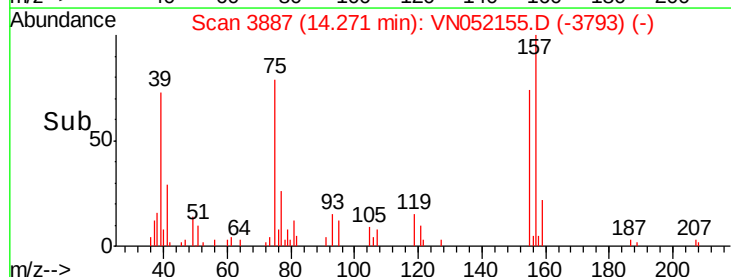
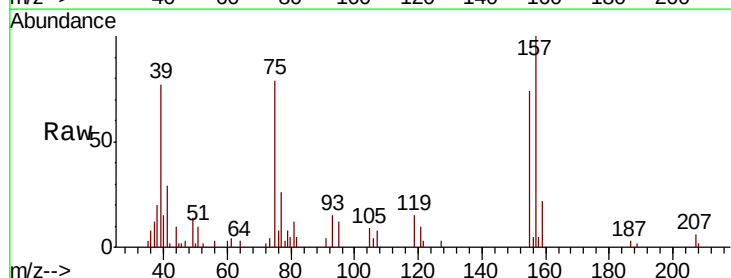
Manual Integrations
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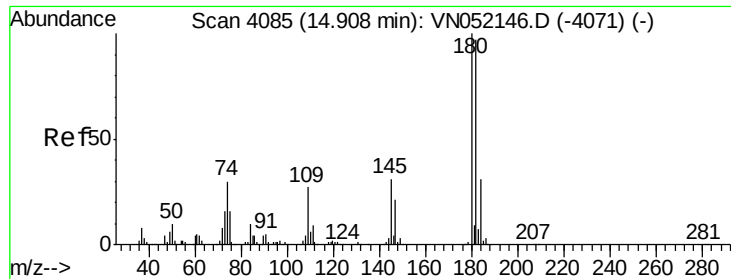
MMDadoda
 11/6/2018 10:00:20 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 21.062 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. 0.00 min
 Lab File: VN052155.D
 Acq: 5 Nov 2018 19:00

Tgt Ion	Ratio	Lower	Upper
75	100		
155	82.3	47.4	142.2
157	105.6	60.3	180.8





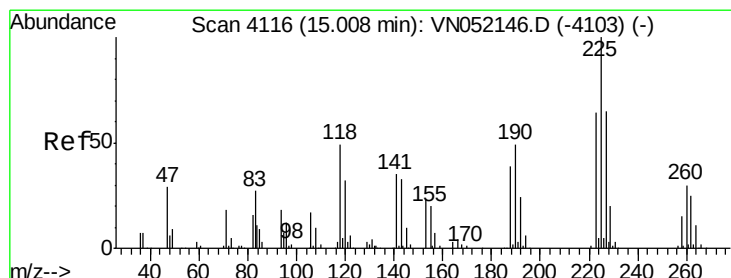
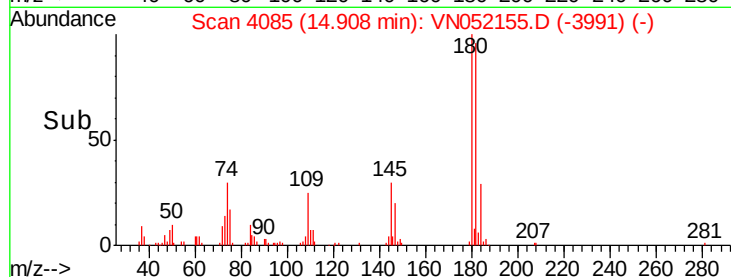
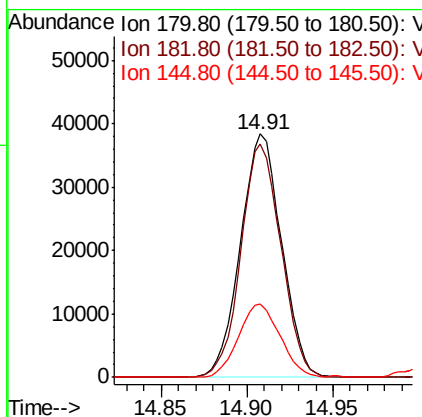
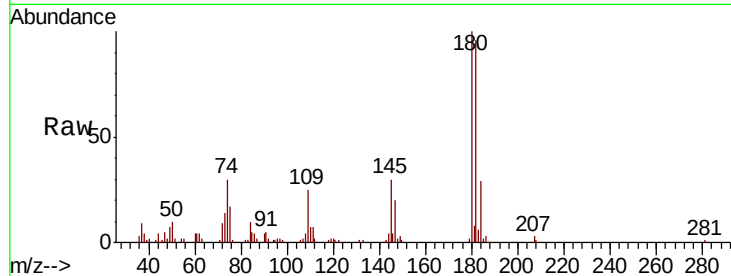
#93
 1,2,4-Trichlorobenzene
 Concen: 18.778 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN052155.D
 Acq: 5 Nov 2018 19:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1105WBSD01

Tot Ion	Ratio	Lower	Upper
180	100		
182	93.2	48.1	144.4
145	30.4	15.3	45.9

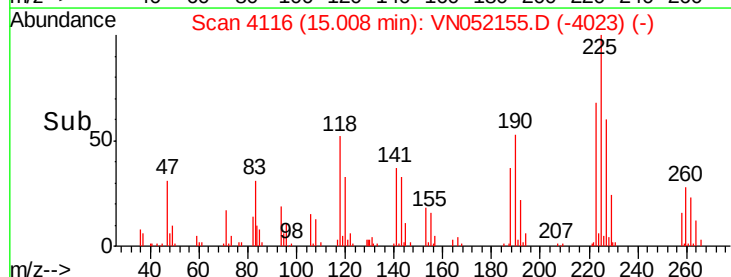
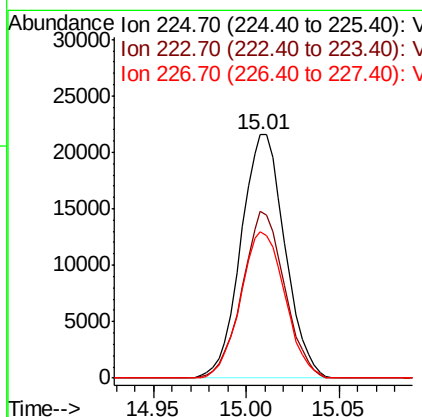
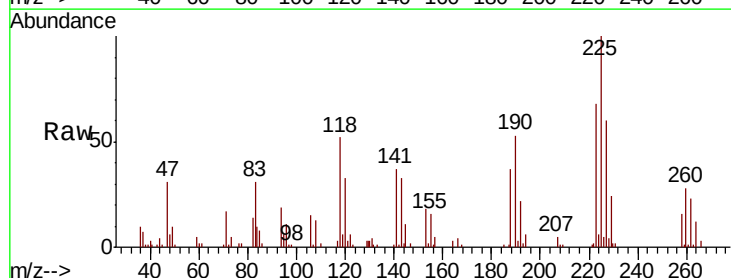
Manual Integrations
 APPROVED

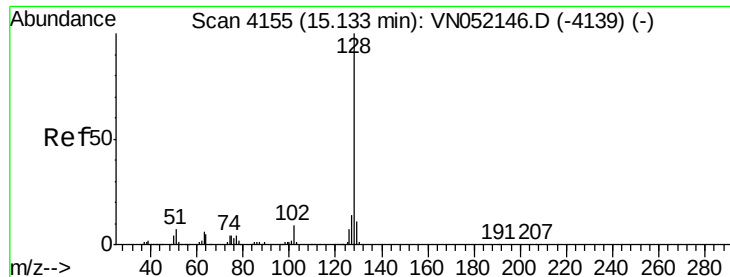
MMDadoda
 11/6/2018 10:00:20 AM



#94
 Hexachlorobutadiene
 Concen: 19.149 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN052155.D
 Acq: 5 Nov 2018 19:00

Tgt Ion	Ratio	Lower	Upper
225	100		
223	66.0	32.3	96.8
227	60.6	31.6	94.8





#95

Naphthalene

Concen: 18.234 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. -0.00 min

Lab File: VN052155.D

Acq: 5 Nov 2018 19:00

Instrument :

MSVOA_N

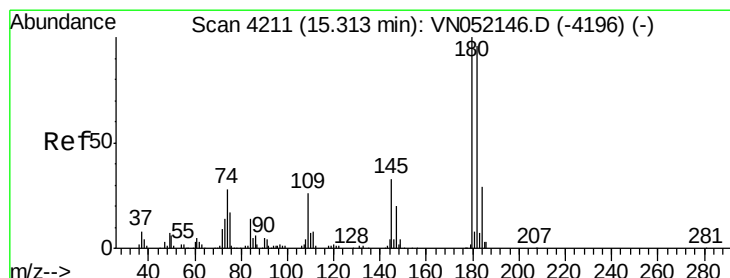
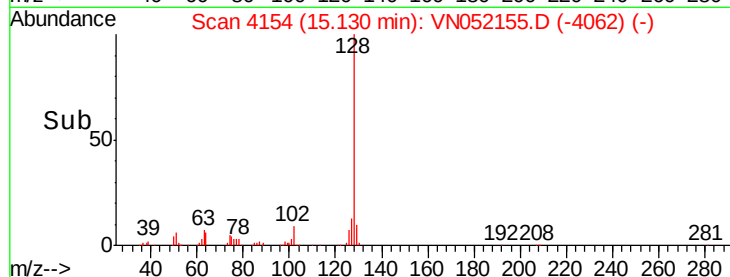
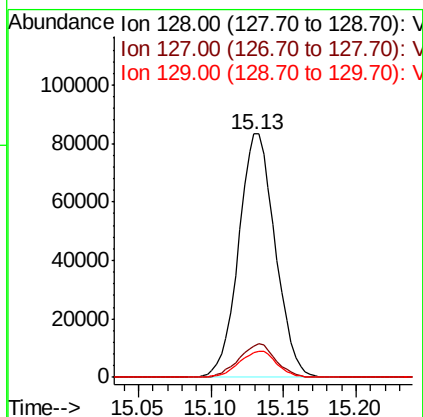
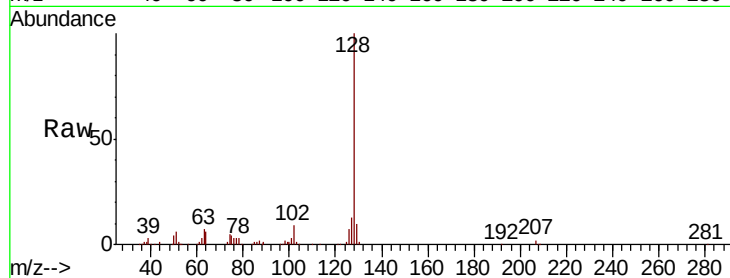
ClientSampleId :

VN1105WBSD01

Tot Ion:	128	Resp:	145588
Ion Ratio	Lower	Upper	
128	100		
127	13.8	10.8	16.2
129	10.9	9.1	13.7

Manual Integrations
APPROVED

MMDadoda
11/6/2018 10:00:20 AM



#96

1,2,3-Trichlorobenzene

Concen: 18.731 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN052155.D

Acq: 5 Nov 2018 19:00

Tgt Ion:	180	Resp:	55766
Ion Ratio	Lower	Upper	
180	100		
182	97.2	46.6	139.7
145	32.7	16.7	50.0

