

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN020819\
 Data File : VN053677.D
 Acq On : 8 Feb 2019 13:17
 Operator : JC/SP
 Sample : VN0208WBS01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0208WBS01

Manual Integrations
 APPROVED

MMDadoda
 2/11/2019 9:50:21 AM

Quant Time: Feb 09 02:50:58 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N013019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 01 09:11:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	618058	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	999884	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	867599	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	411298	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	338393	54.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.16%	
35) Dibromofluoromethane	7.59	113	326021	51.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.20%	
50) Toluene-d8	10.09	98	1180363	49.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.52%	
62) 4-Bromofluorobenzene	12.40	95	393882	49.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.56%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	138379	20.063	ug/l	98
3) Chloromethane	2.06	50	150978	20.576	ug/l	98
4) Vinyl Chloride	2.19	62	147373	20.690	ug/l	97
5) Bromomethane	2.57	94	110136	23.648	ug/l	97
6) Chloroethane	2.71	64	100657	24.729	ug/l	98
7) Trichlorofluoromethane	3.02	101	214362	22.193	ug/l	98
8) Diethyl Ether	3.41	74	74669	21.167	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	3.76	101	127719	21.380	ug/l	100
10) Methyl Iodide	3.96	142	188154	20.067	ug/l	100
11) Tert butyl alcohol	4.78	59	43632	118.905	ug/l	96
12) 1,1-Dichloroethene	3.74	96	120789	21.104	ug/l	99
13) Acrolein	3.61	56	26047	130.373	ug/l	99
14) Allyl chloride	4.33	41	192174	21.088	ug/l	97
15) Acrylonitrile	4.99	53	234166	118.207	ug/l	99
16) Acetone	3.82	43	174996	110.033	ug/l	99
17) Carbon Disulfide	4.06	76	341152	19.143	ug/l	100
18) Methyl Acetate	4.33	43	113229	24.040	ug/l	99
19) Methyl tert-butyl Ether	5.05	73	328086	22.613	ug/l	99
20) Methylene Chloride	4.55	84	143203	21.462	ug/l	98
21) trans-1,2-Dichloroethene	5.05	96	129015	20.894	ug/l	99
22) Diisopropyl ether	5.95	45	370666	21.952	ug/l	93
23) Vinyl Acetate	5.90	43	1294259	110.800	ug/l	100
24) 1,1-Dichloroethane	5.85	63	242689	21.549	ug/l	99
25) 2-Butanone	6.84	43	260704	114.936	ug/l	98
26) 2,2-Dichloropropane	6.82	77	177296	20.622	ug/l	100
27) cis-1,2-Dichloroethene	6.83	96	149898	21.832	ug/l	96
28) Bromochloromethane	7.20	49	100992	20.664	ug/l	96
29) Tetrahydrofuran	7.21	42	170898	117.333	ug/l	98
30) Chloroform	7.37	83	239606	21.462	ug/l	98
31) Cyclohexane	7.66	56	209738	19.900	ug/l	96
32) 1,1,1-Trichloroethane	7.57	97	200279	21.556	ug/l	99
36) 1,1-Dichloropropene	7.79	75	172444	19.132	ug/l	97
37) Ethyl Acetate	6.93	43	115496	22.943	ug/l	100
38) Carbon Tetrachloride	7.77	117	177350	19.532	ug/l	100

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 Quant Title : SW846 8260
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	195588	18.291	ug/l	99
40) Benzene	8.04	78	549978	19.787	ug/l	99
41) Methacrylonitrile	7.17	41	51516	18.310	ug/l #	78
42) 1,2-Dichloroethane	8.12	62	164861	19.976	ug/l	99
43) Isopropyl Acetate	8.17	43	204783	21.065	ug/l	97
44) Trichloroethene	8.84	130	152886	19.321	ug/l	98
45) 1,2-Dichloropropane	9.12	63	146423	20.596	ug/l	99
46) Dibromomethane	9.21	93	88397	20.627	ug/l	98
47) Bromodichloromethane	9.40	83	181250	20.341	ug/l	97
48) Methyl methacrylate	9.20	41	88807	19.137	ug/l	87
49) 1,4-Dioxane	9.20	88	28056	440.024	ug/l	93
51) 4-Methyl-2-Pentanone	9.99	43	518036	108.438	ug/l	100
52) Toluene	10.16	92	331722	20.109	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	177649	19.910	ug/l	100
54) cis-1,3-Dichloropropene	9.84	75	207480	19.624	ug/l	98
55) 1,1,2-Trichloroethane	10.56	97	127837	21.506	ug/l	99
56) Ethyl methacrylate	10.43	69	148201	21.075	ug/l	98
57) 1,3-Dichloropropane	10.71	76	206736	20.350	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.70	63	363539	88.698	ug/l	99
59) 2-Hexanone	10.75	43	329945	101.736	ug/l	99
60) Dibromochloromethane	10.90	129	138064	20.597	ug/l	100
61) 1,2-Dibromoethane	11.01	107	118168	20.085	ug/l	100
64) Tetrachloroethene	10.63	164	143542	19.301	ug/l	99
65) Chlorobenzene	11.44	112	363386	19.718	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	133978	20.817	ug/l	99
67) Ethyl Benzene	11.51	91	602121	19.890	ug/l	100
68) m/p-Xylenes	11.62	106	469857	40.666	ug/l	99
69) o-Xylene	11.95	106	229834	20.590	ug/l	99
70) Styrene	11.96	104	371392	20.528	ug/l	99
71) Bromoform	12.13	173	95602	21.667	ug/l #	98
73) Isopropylbenzene	12.25	105	600219	20.759	ug/l	100
74) N-amyl acetate	12.07	43	148318	21.332	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.50	83	147300	21.287	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	121406m	22.981	ug/l	
77) Bromobenzene	12.53	156	158722	20.369	ug/l	100
78) n-propylbenzene	12.59	91	691165	20.678	ug/l	100
79) 2-Chlorotoluene	12.68	91	409575	20.654	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	513054	21.398	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	37025	19.707	ug/l	97
82) 4-Chlorotoluene	12.77	91	409063	20.103	ug/l	99
83) tert-Butylbenzene	12.99	119	446848	21.087	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	517639	21.191	ug/l	99
85) sec-Butylbenzene	13.17	105	620405	21.514	ug/l	100
86) p-Isopropyltoluene	13.29	119	532355	21.108	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	279478	19.951	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	271398	19.586	ug/l	98
89) n-Butylbenzene	13.61	91	441297	20.215	ug/l	99
90) Hexachloroethane	13.87	117	90634	21.787	ug/l	98
91) 1,2-Dichlorobenzene	13.65	146	272515	20.321	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	21881	22.187	ug/l	99

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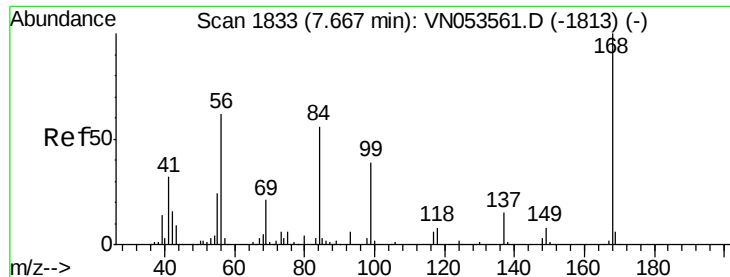
Manual Integrations
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MMDadoda
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	144797	18.826	ug/l	98
94) Hexachlorobutadiene	15.01	225	102393	21.377	ug/l	99
95) Naphthalene	15.13	128	303844	17.969	ug/l	100
96) 1,2,3-Trichlorobenzene	15.31	180	140646	19.708	ug/l	100

(#) = 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: VN053677.D

Acq: 8 Feb 2019 13:17

Instrument :

MSVOA_N

ClientSampleId :

VN0208WBS01

Tot Ion:168 Resp: 618058

Ion Ratio Lower Upper

168 100

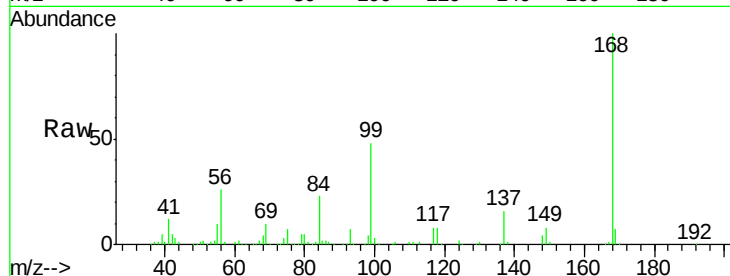
99 46.5 39.1 58.7

Manual Integrations

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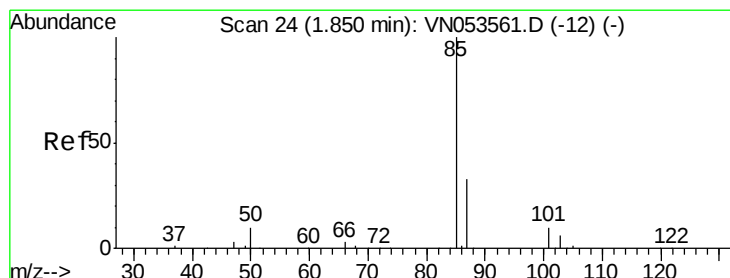
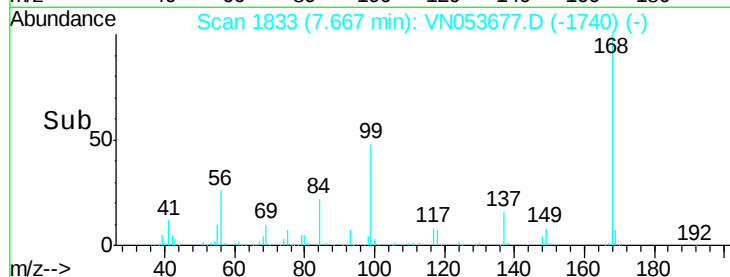
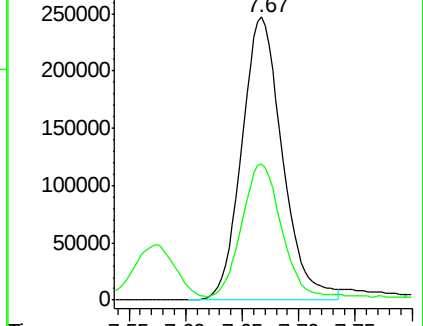
MMDadoda

2/11/2019 9:50:21 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#2

Dichlorodifluoromethane

Concen: 20.063 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN053677.D

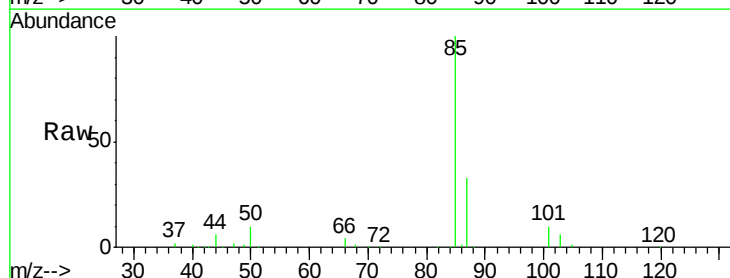
Acq: 8 Feb 2019 13:17

Tgt Ion: 85 Resp: 138379

Ion Ratio Lower Upper

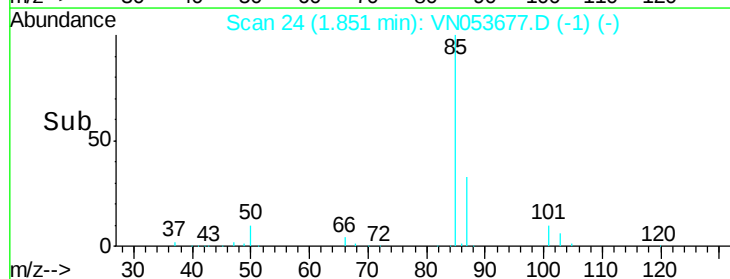
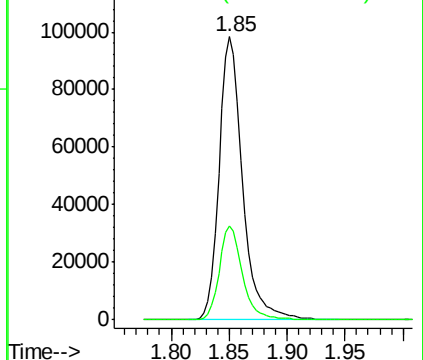
85 100

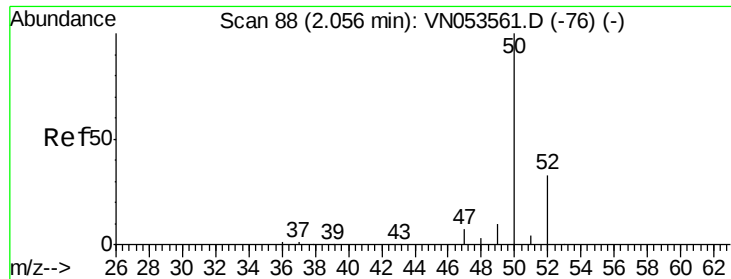
87 33.4 16.2 48.5



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN





#3

Chloromethane

Concen: 20.576 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.01 min

Lab File: VN053677.D

Acq: 8 Feb 2019 13:17

Instrument :

MSVOA_N

ClientSampleId :

VN0208WBS01

Tot Ion: 50 Resp: 150978

Ion Ratio Lower Upper

50 100

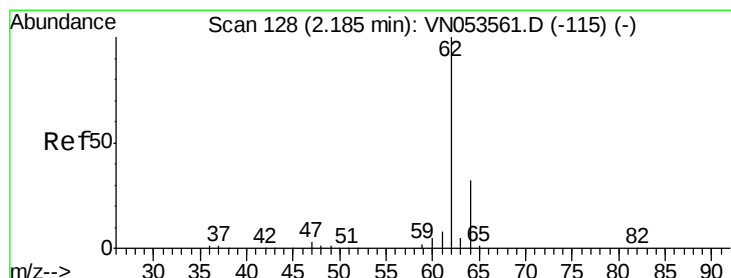
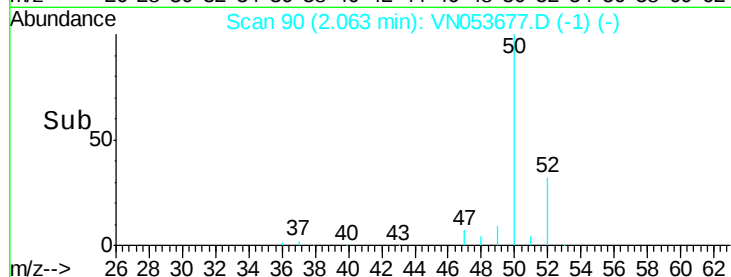
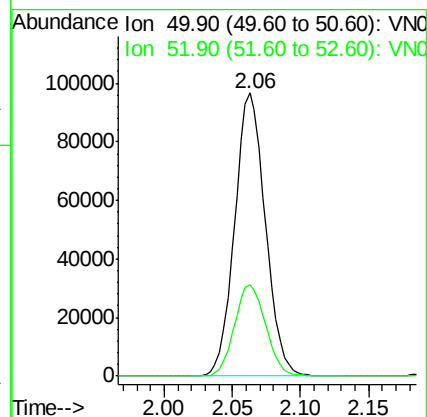
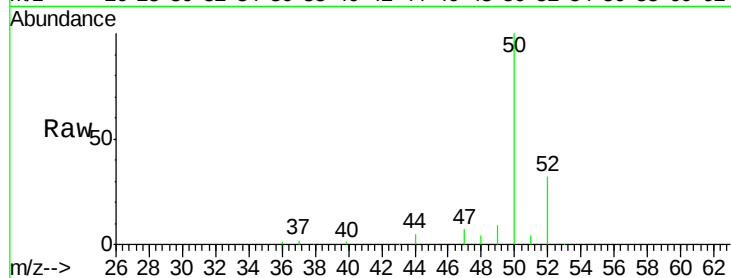
52 32.4 26.6 40.0

Manual Integrations

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#4

Vinyl Chloride

Concen: 20.690 ug/l

RT: 2.19 min Scan# 129

Delta R.T. 0.00 min

Lab File: VN053677.D

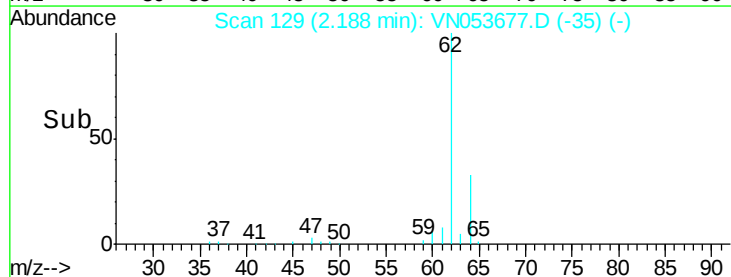
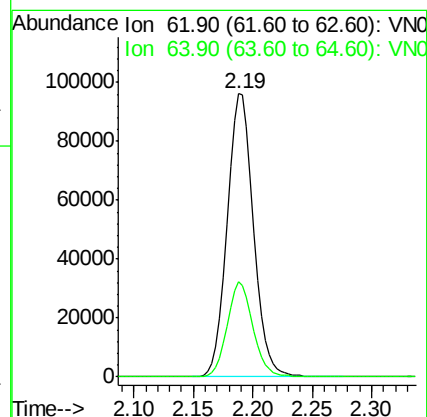
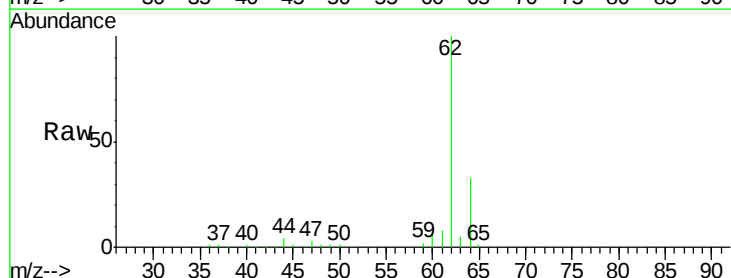
Acq: 8 Feb 2019 13:17

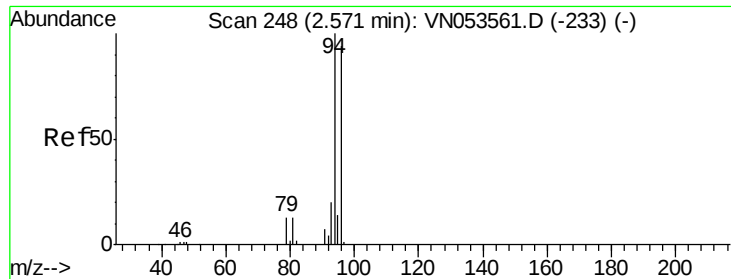
Tgt Ion: 62 Resp: 147373

Ion Ratio Lower Upper

62 100

64 33.5 25.4 38.2





#5

Bromomethane

Concen: 23.648 ug/l

RT: 2.57 min Scan# 249

Delta R.T. 0.00 min

Lab File: VN053677.D

Acq: 8 Feb 2019 13:17

Instrument :

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ClientSampleId :

VN0208WBS01

Tot Ion: 94 Resp: 110136

Ion Ratio Lower Upper

94 100

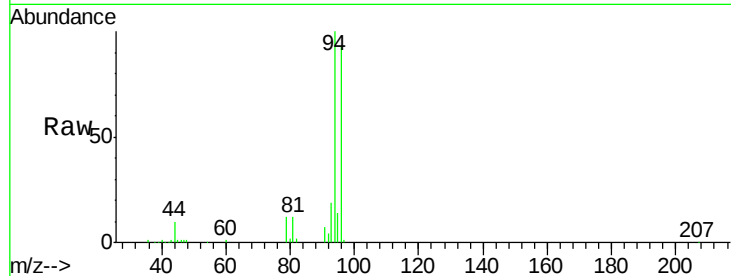
96 93.1 76.8 115.2

Manual Integrations

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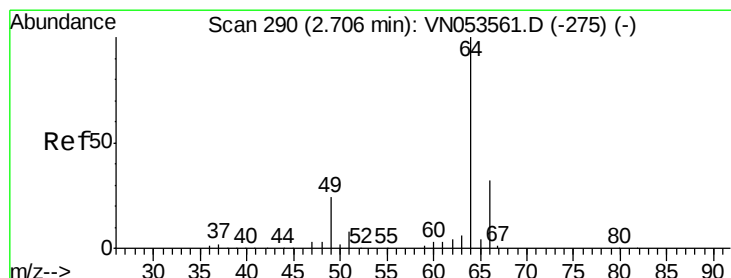
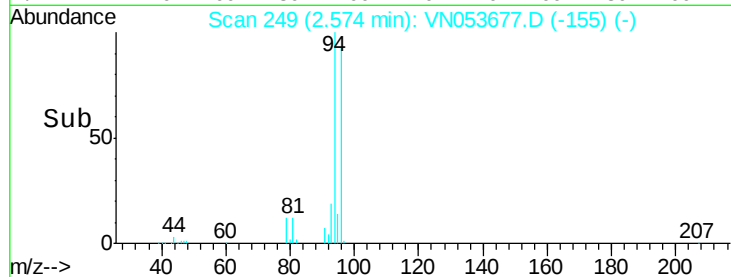
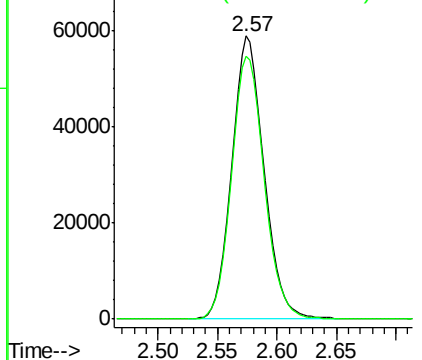
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Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 24.729 ug/l

RT: 2.71 min Scan# 291

Delta R.T. 0.00 min

Lab File: VN053677.D

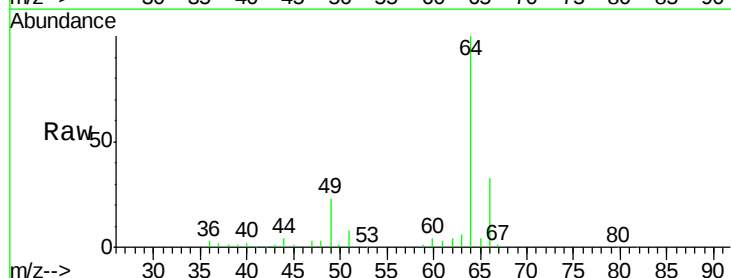
Acq: 8 Feb 2019 13:17

Tgt Ion: 64 Resp: 100657

Ion Ratio Lower Upper

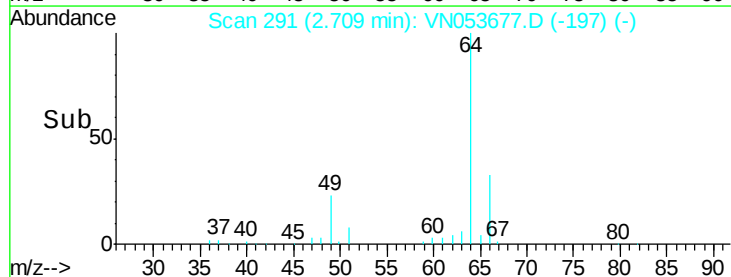
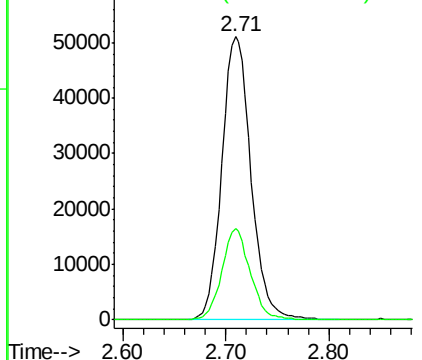
64 100

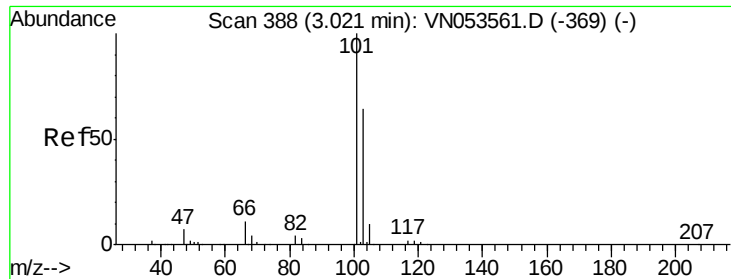
66 32.5 25.1 37.7



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#7

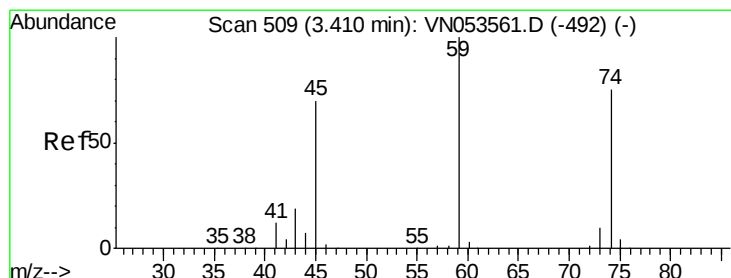
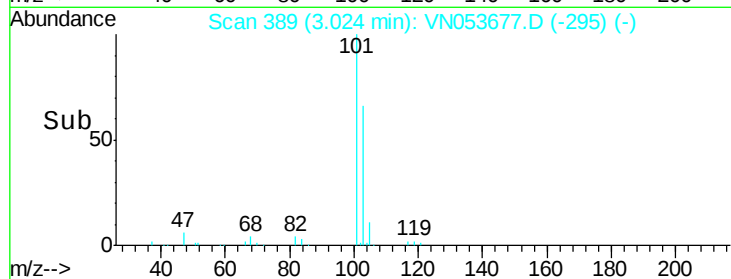
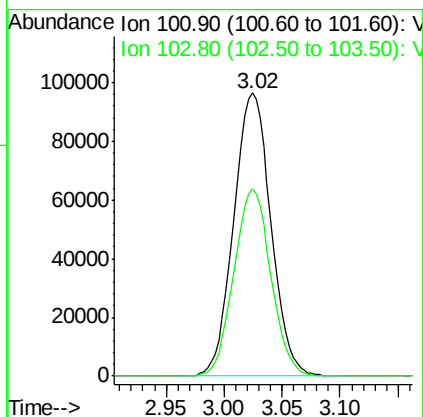
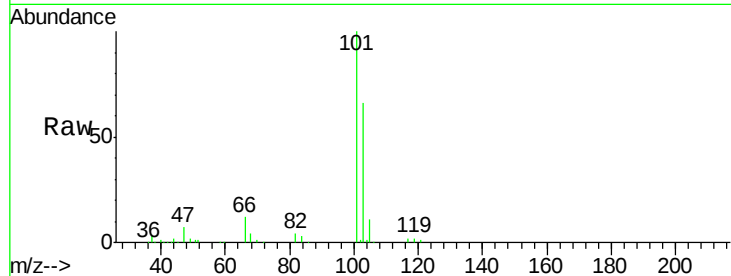
Trichlorofluoromethane
Concen: 22.193 ug/l
RT: 3.02 min Scan# 389
Delta R.T. 0.00 min
Lab File: VN053677.D
Acq: 8 Feb 2019 13:17

Instrument :
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ClientSampleId :
VN0208WBS01

Tot Ion	Ratio	Lower	Upper
101	100		
103	66.0	51.6	77.4

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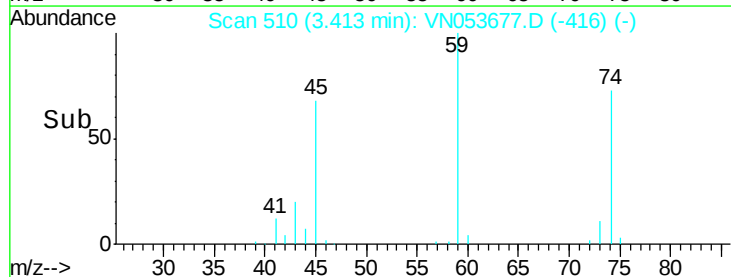
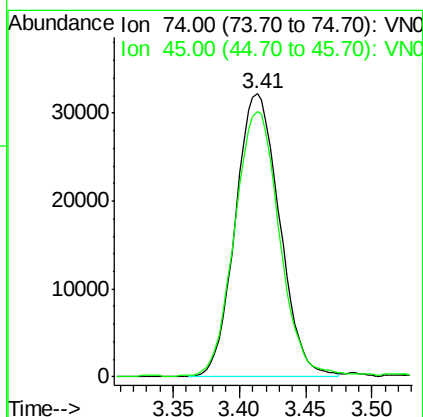
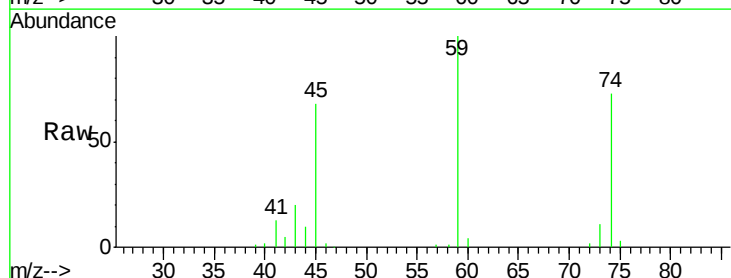
MMDadoda
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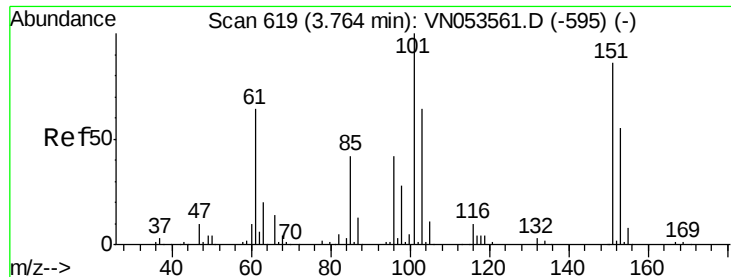


#8

Diethyl Ether
Concen: 21.167 ug/l
RT: 3.41 min Scan# 510
Delta R.T. 0.00 min
Lab File: VN053677.D
Acq: 8 Feb 2019 13:17

Tgt Ion	Ratio	Lower	Upper
74	100		
45	96.2	47.9	143.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 21.380 ug/l

RT: 3.76 min Scan# 619

Delta R.T. 0.00 min

Lab File: VN053677.D

Acq: 8 Feb 2019 13:17

Instrument :

MSVOA_N

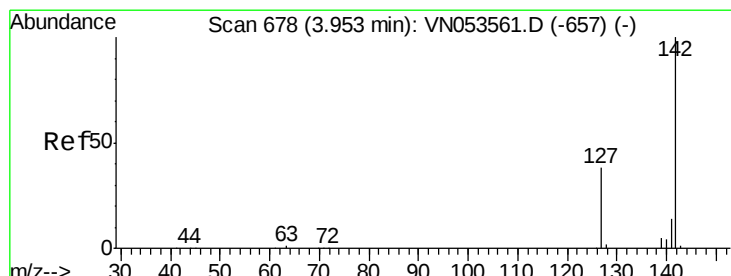
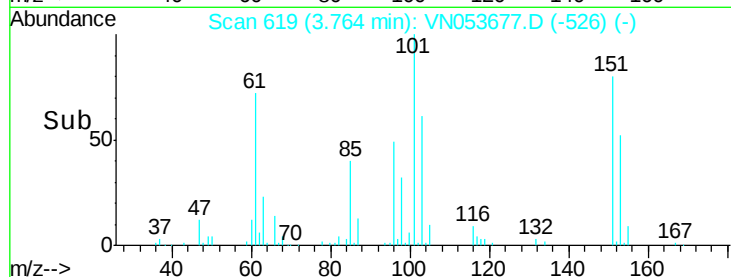
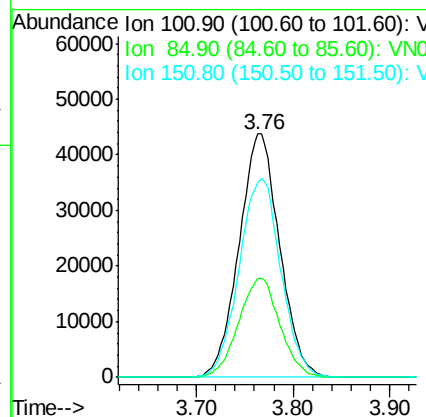
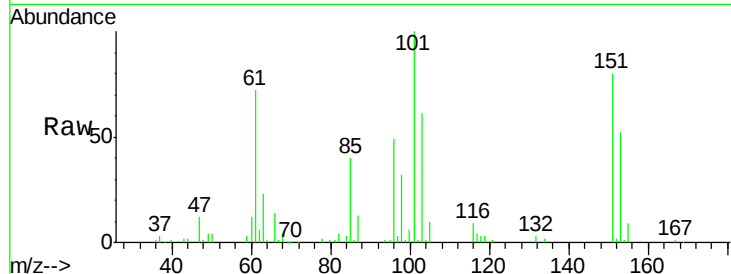
ClientSampleId :

VN0208WBS01

Tot Ion:	101	Resp:	127719
Ion Ratio	Lower	Upper	
101	100		
85	41.2	32.8	49.2
151	84.0	66.9	100.3

Manual Integrations
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#10

Methyl Iodide

Concen: 20.067 ug/l

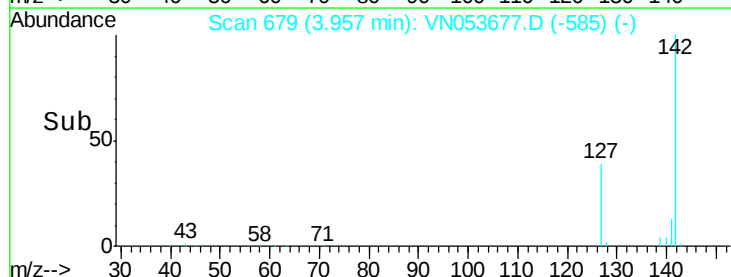
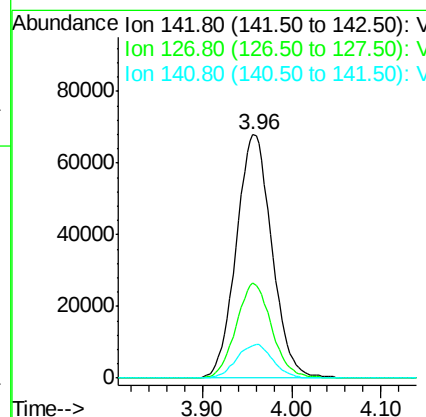
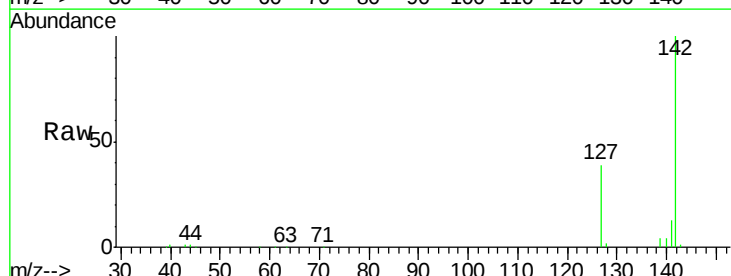
RT: 3.96 min Scan# 679

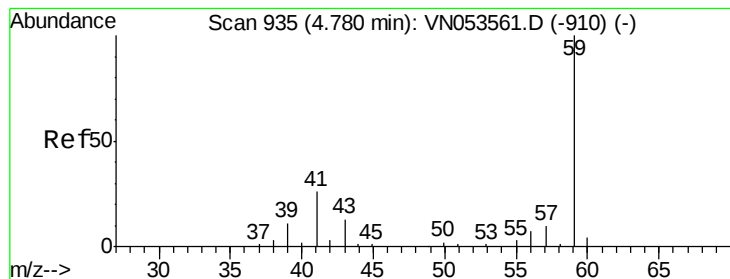
Delta R.T. 0.00 min

Lab File: VN053677.D

Acq: 8 Feb 2019 13:17

Tgt Ion:	142	Resp:	188154
Ion Ratio	Lower	Upper	
142	100		
127	39.0	31.0	46.4
141	14.1	11.1	16.7





#11

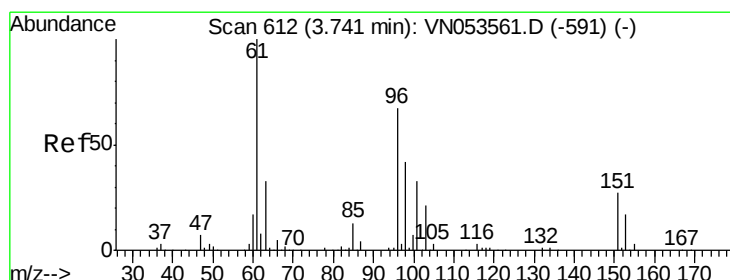
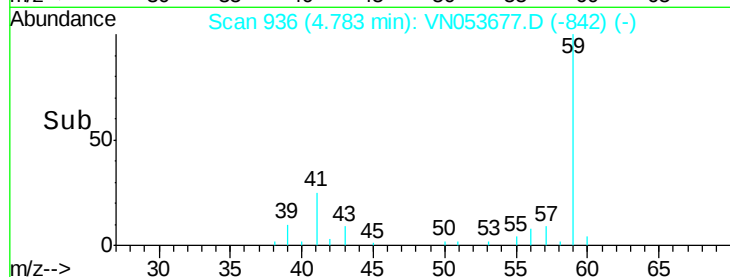
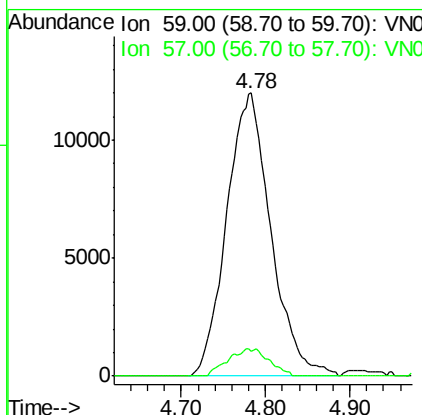
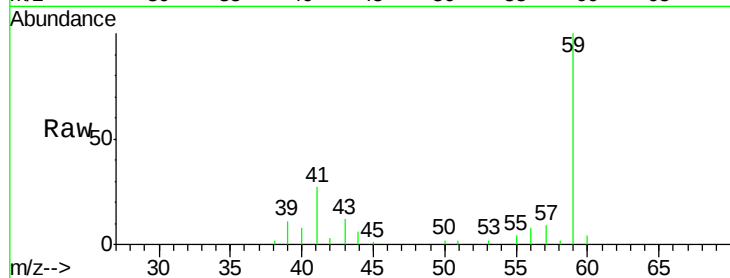
Tert butyl alcohol
Concen: 118.905 ug/l
RT: 4.78 min Scan# 936
Delta R.T. 0.00 min
Lab File: VN053677.D
Acq: 8 Feb 2019 13:17

Instrument :
MSVOA_N
ClientSampled :
VN0208WBS01

Tot Ion	Ratio	Lower	Upper
59	100		
57	9.0	8.2	12.4

Manual Integrations
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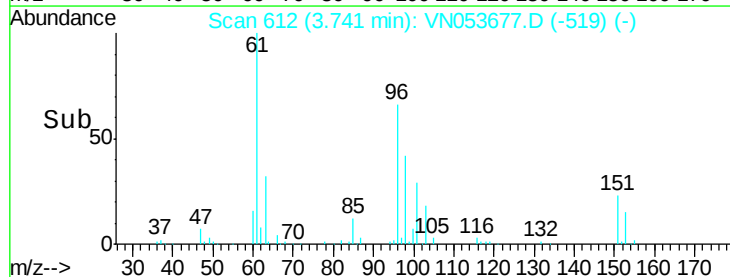
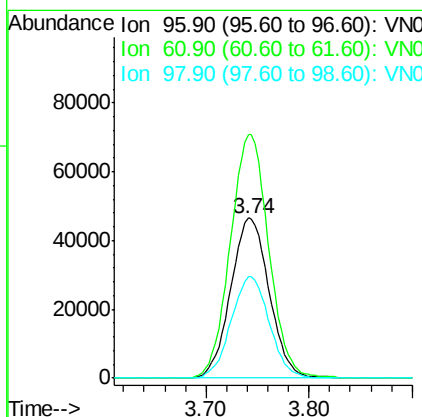
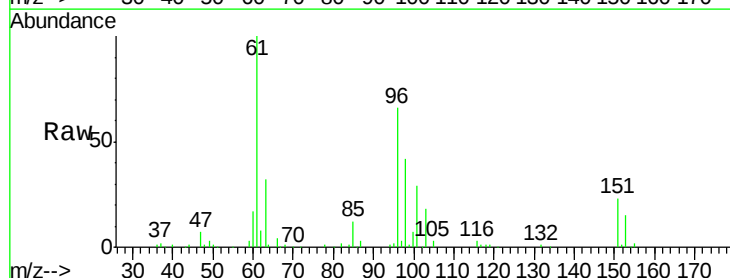
MMDadoda
2/11/2019 9:50:21 AM

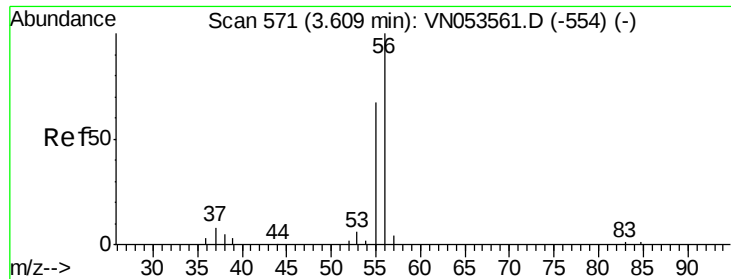


#12

1,1-Dichloroethene
Concen: 21.104 ug/l
RT: 3.74 min Scan# 612
Delta R.T. 0.00 min
Lab File: VN053677.D
Acq: 8 Feb 2019 13:17

Tgt Ion	Ratio	Lower	Upper
96	100		
61	152.2	122.9	184.3
98	63.5	49.4	74.0





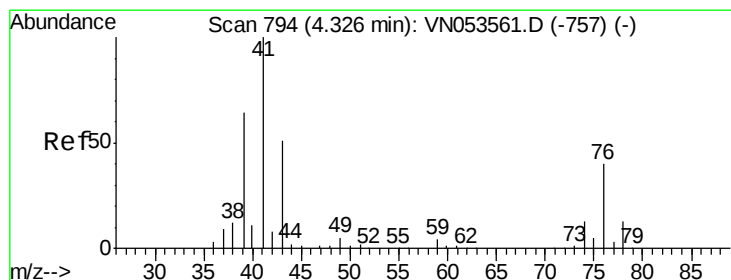
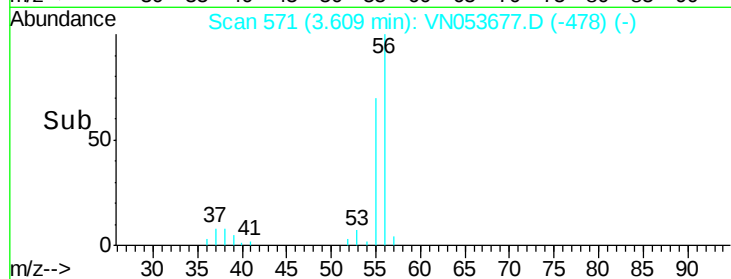
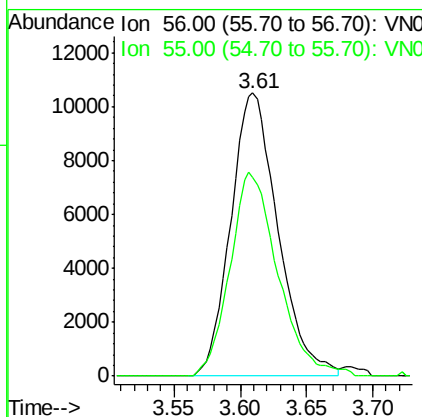
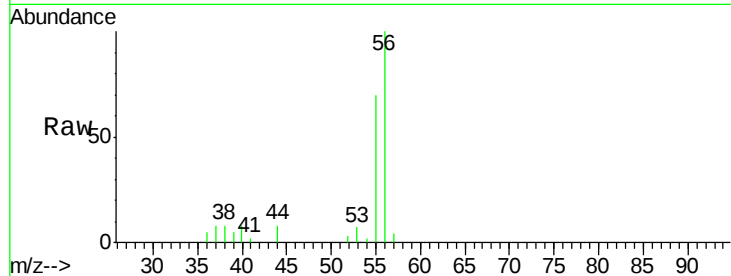
#13
Acrolein
Concen: 130.373 ug/l
RT: 3.61 min Scan# 571
Delta R.T. 0.00 min
Lab File: VN053677.D
Acq: 8 Feb 2019 13:17

Instrument :
MSVOA_N
ClientSampleId :
VN0208WBS01

Tot Ion	56	55	Ratio	Lower	Upper
26047	100	72.9		57.4	86.0

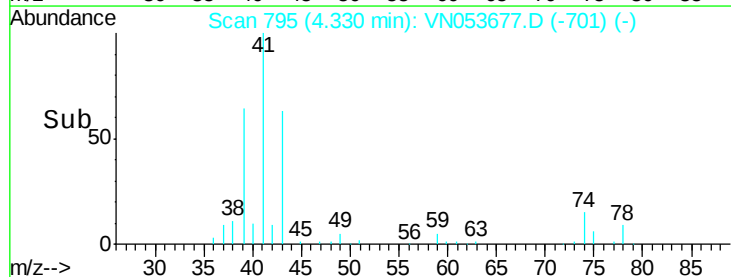
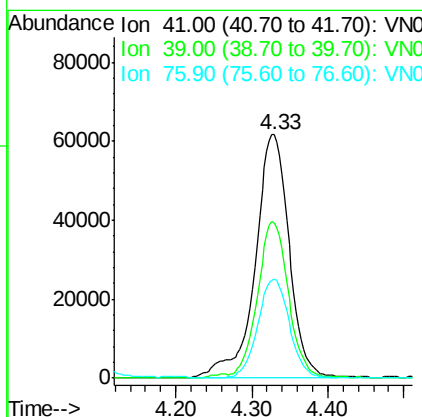
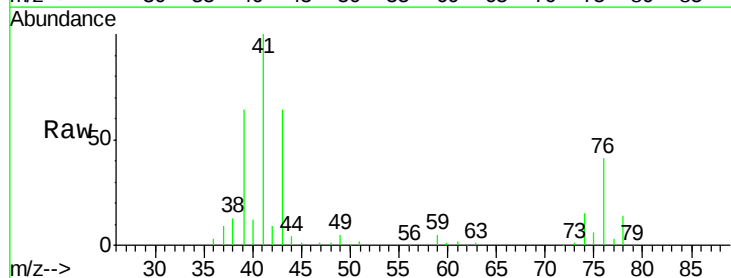
Manual Integrations
APPROVED

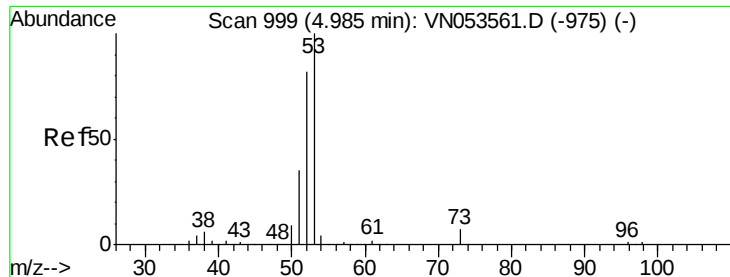
MMDadoda
2/11/2019 9:50:21 AM



#14
Allyl chloride
Concen: 21.088 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.00 min
Lab File: VN053677.D
Acq: 8 Feb 2019 13:17

Tgt Ion	41	39	76	Ratio	Lower	Upper
192174	100	58.3	38.0		48.9	73.3
					29.4	44.2





#15

Acrylonitrile

Concen: 118.207 ug/l

RT: 4.99 min Scan# 1000

Delta R.T. 0.00 min

Lab File: VN053677.D

Acq: 8 Feb 2019 13:17

Instrument :

MSVOA_N

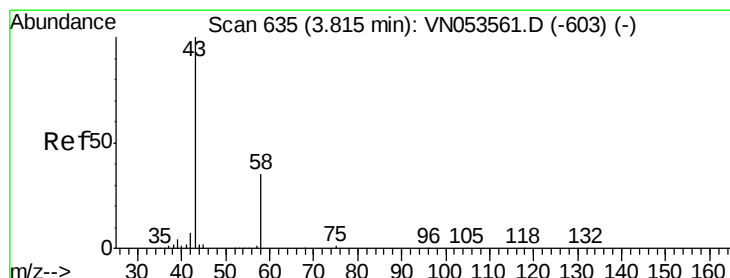
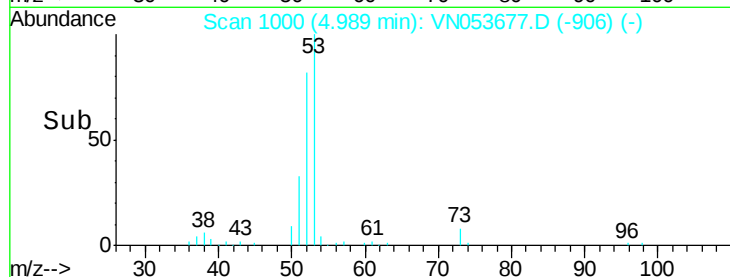
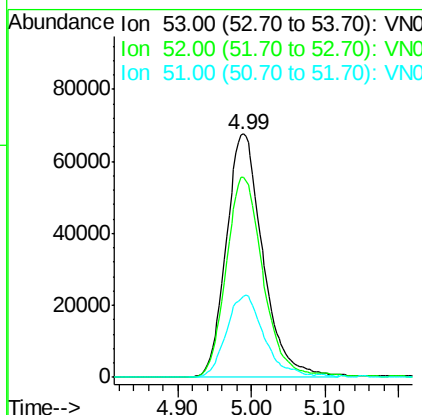
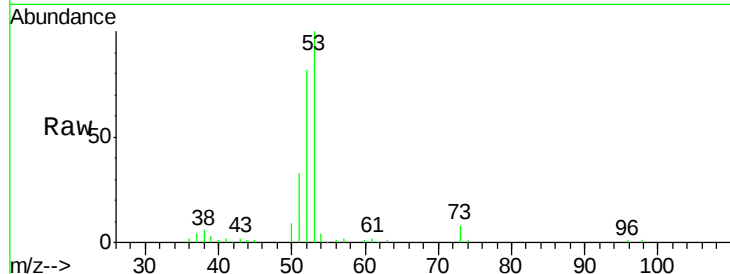
ClientSampleId :

VN0208WBS01

Tot Ion:	53	Resp:	234166
Ion	Ratio	Lower	Upper
53	100		
52	82.0	66.0	99.0
51	34.8	28.3	42.5

Manual Integrations
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2/11/2019 9:50:21 AM



#16

Acetone

Concen: 110.033 ug/l

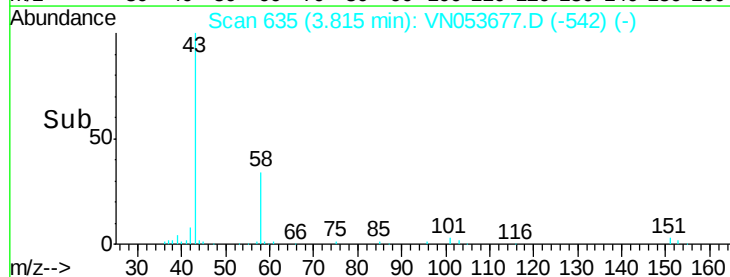
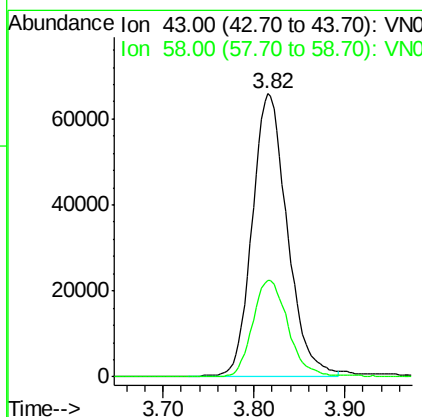
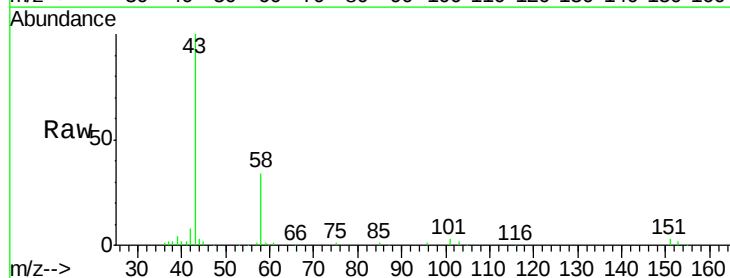
RT: 3.82 min Scan# 635

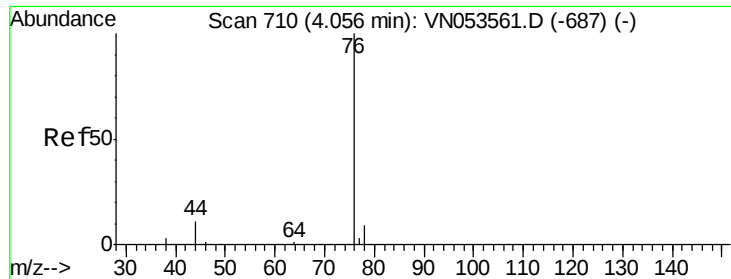
Delta R.T. 0.00 min

Lab File: VN053677.D

Acq: 8 Feb 2019 13:17

Tgt Ion:	43	Resp:	174996
Ion	Ratio	Lower	Upper
43	100		
58	34.4	27.1	40.7





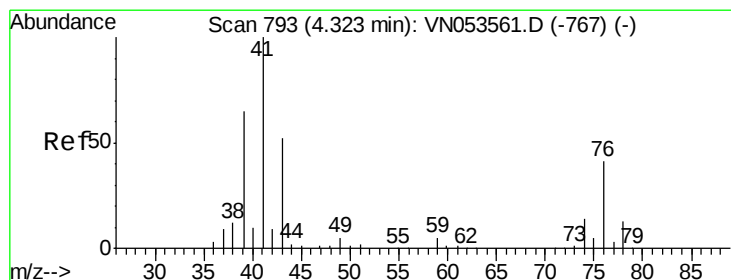
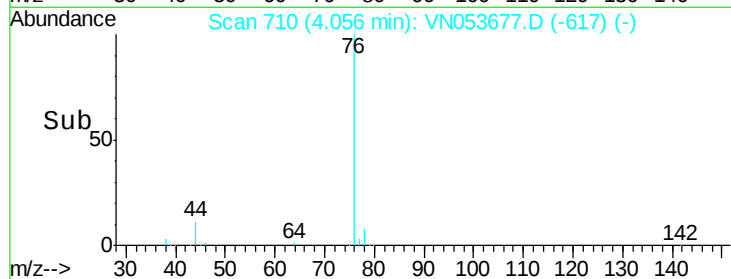
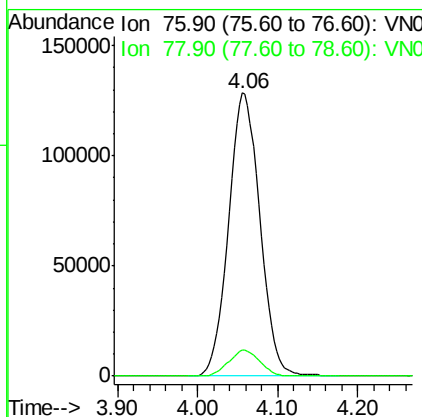
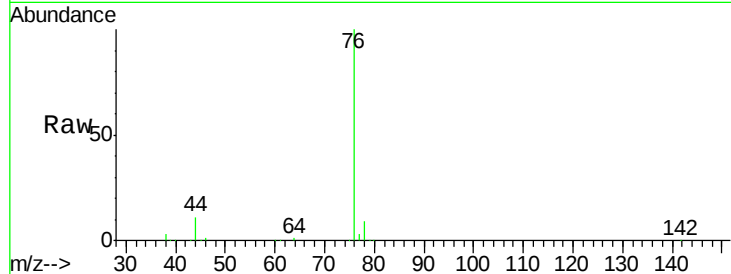
#17
Carbon Disulfide
Concen: 19.143 ug/l
RT: 4.06 min Scan# 710
Delta R.T. 0.00 min
Lab File: VN053677.D
Acq: 8 Feb 2019 13:17

Instrument :
MSVOA_N
ClientSampleId :
VN0208WBS01

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.3	10.9

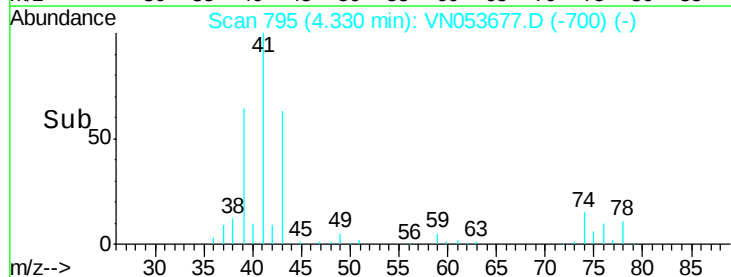
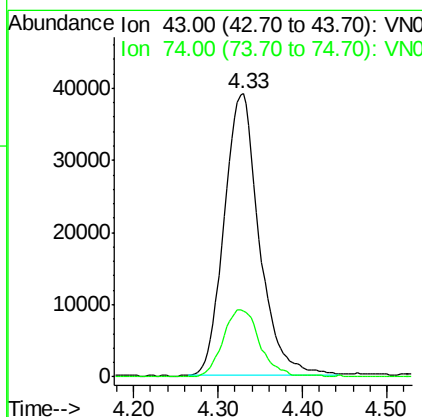
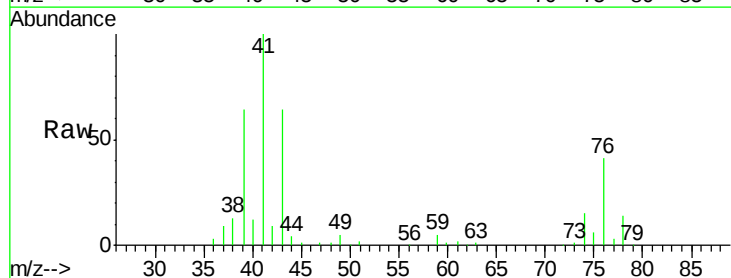
Manual Integrations
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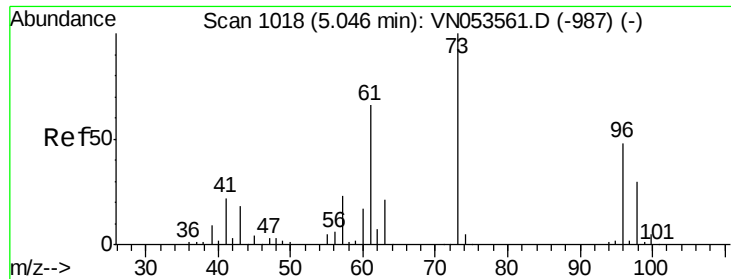
MMDadoda
2/11/2019 9:50:21 AM



#18
Methyl Acetate
Concen: 24.040 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.01 min
Lab File: VN053677.D
Acq: 8 Feb 2019 13:17

Tgt Ion	Ratio	Lower	Upper
43	100		
74	25.0	19.4	29.2





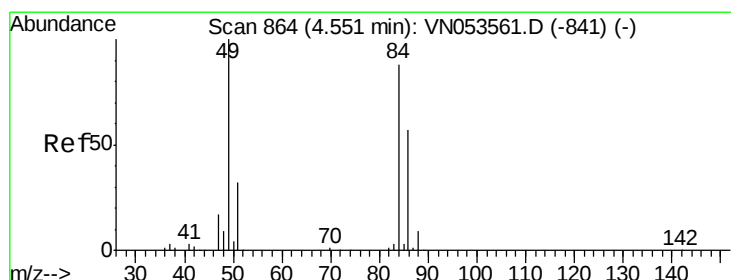
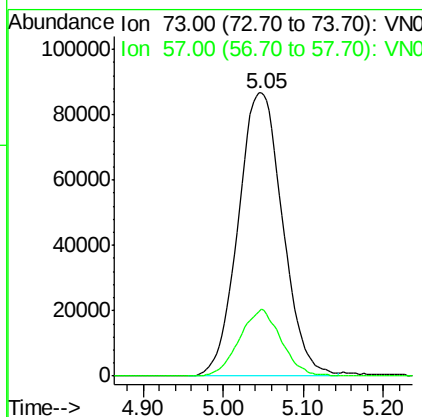
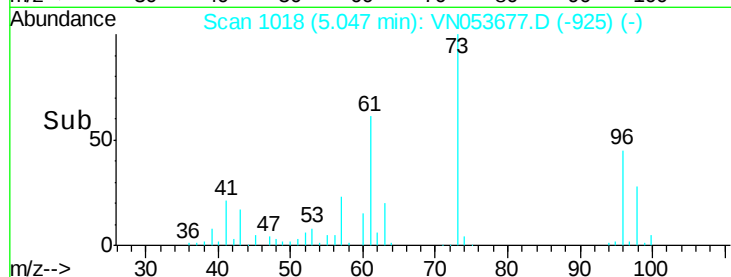
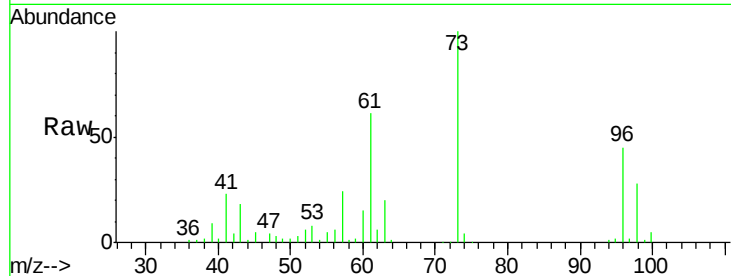
#19
Methyl tert-butyl Ether
Concen: 22.613 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VN053677.D
Acq: 8 Feb 2019 13:17

Instrument :
MSVOA_N
ClientSampleId :
VN0208WBS01

Tot Ion: 73 Resp: 328086
Ion Ratio Lower Upper
73 100
57 23.6 18.3 27.5

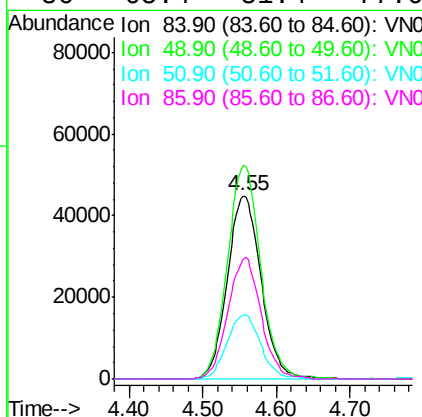
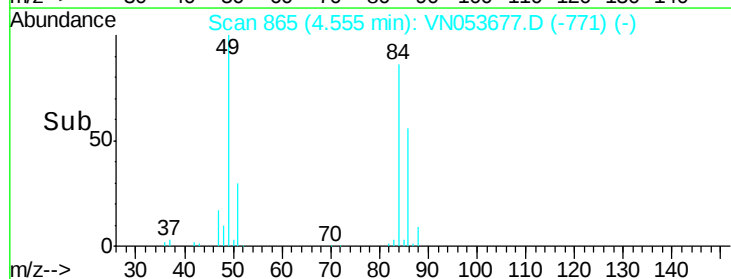
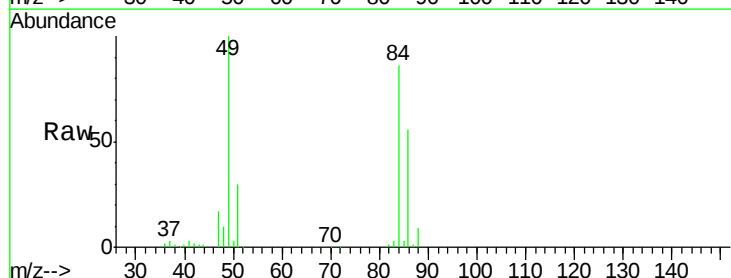
Manual Integrations
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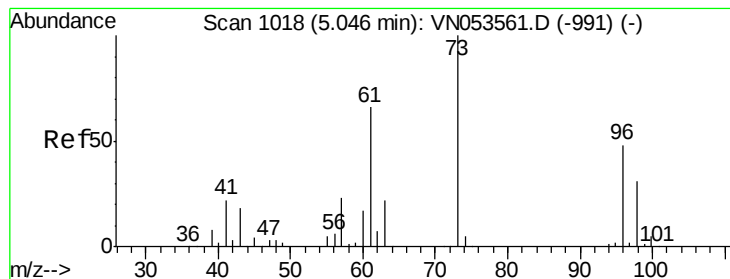
MMDadoda
2/11/2019 9:50:21 AM



#20
Methylene Chloride
Concen: 21.462 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN053677.D
Acq: 8 Feb 2019 13:17

Tgt Ion: 84 Resp: 143203
Ion Ratio Lower Upper
84 100
49 116.3 94.3 141.5
51 34.7 29.4 44.2
86 65.4 51.4 77.0





#21

trans-1,2-Dichloroethene

Concen: 20.894 ug/l

RT: 5.05 min Scan# 1018

Delta R.T. 0.00 min

Lab File: VN053677.D

Acq: 8 Feb 2019 13:17

Instrument :

MSVOA_N

ClientSampleId :

VN0208WBS01

Tot Ion: 96 Resp: 129015

Ion Ratio Lower Upper

96 100

61 136.1 110.1 165.1

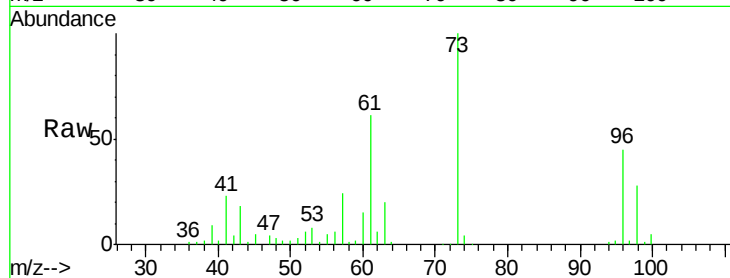
98 62.7 50.0 75.0

Manual Integrations

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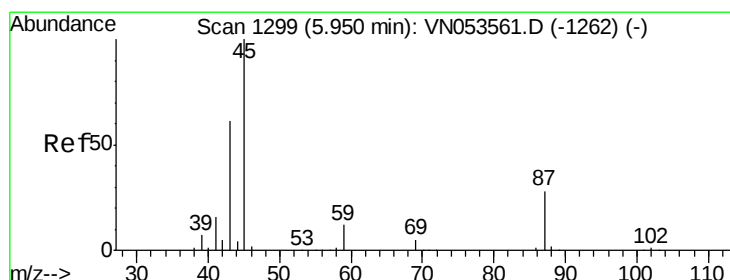
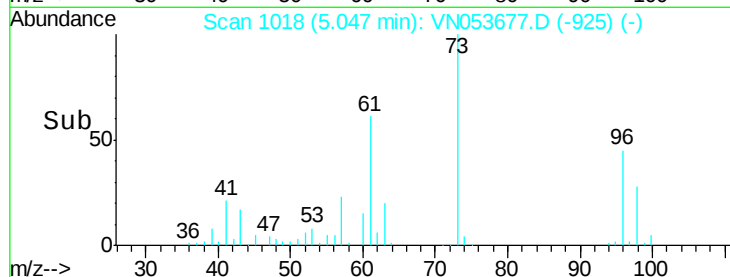
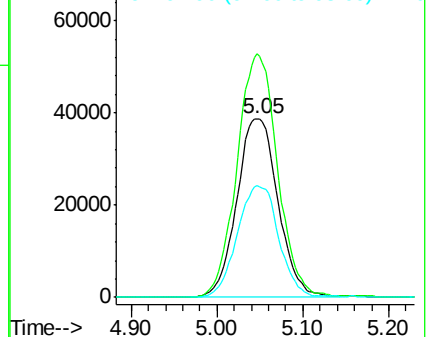
2/11/2019 9:50:21 AM



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: 21.952 ug/l

RT: 5.95 min Scan# 1299

Delta R.T. 0.00 min

Lab File: VN053677.D

Acq: 8 Feb 2019 13:17

Tgt Ion: 45 Resp: 370666

Ion Ratio Lower Upper

45 100

43 64.0 44.2 66.4

87 29.2 22.7 34.1

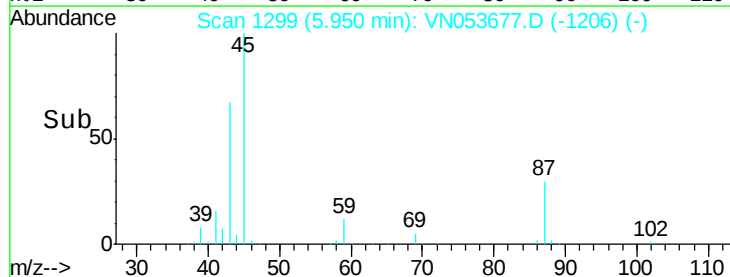
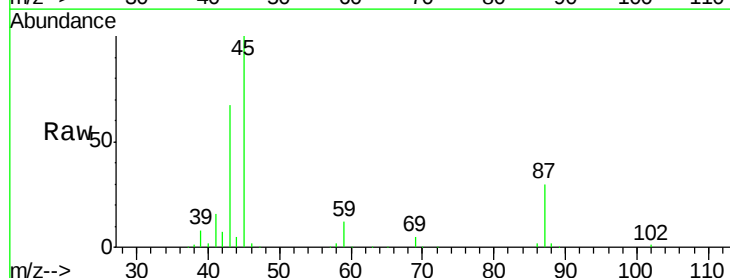
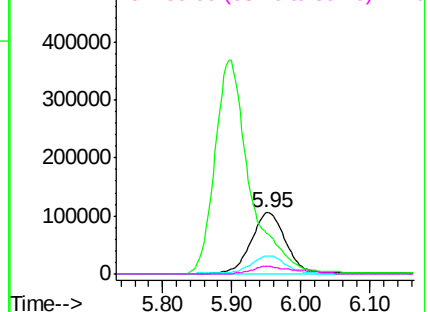
59 11.9 9.4 14.2

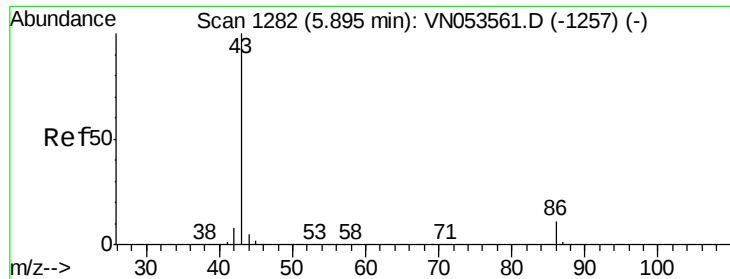
Abundance Ion 45.00 (44.70 to 45.70): VNC

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





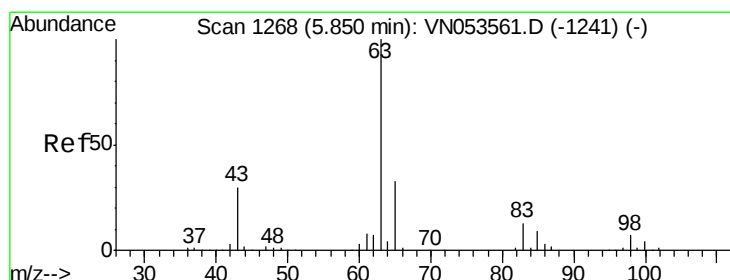
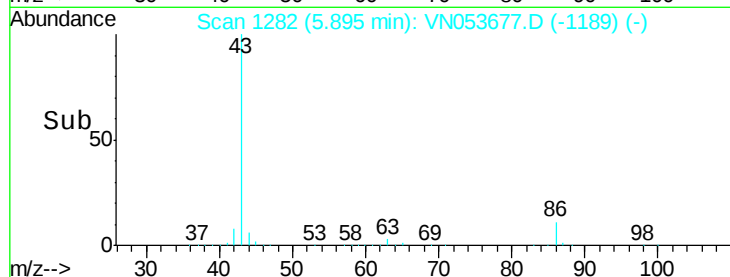
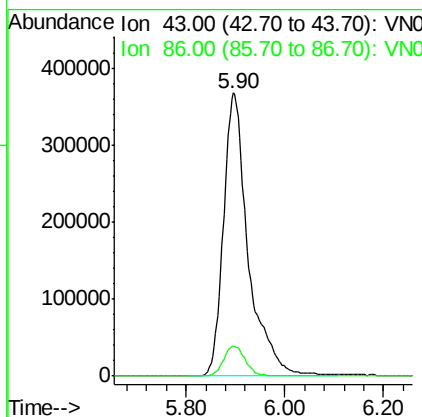
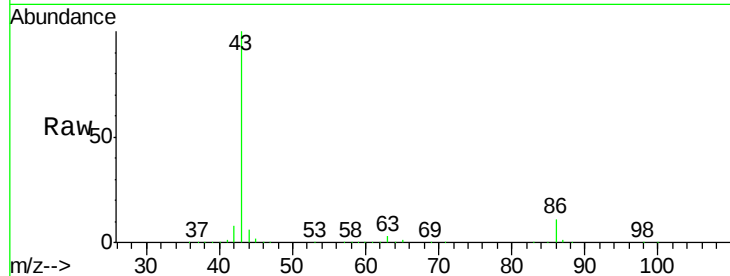
#23
 Vinyl Acetate
 Concen: 110.800 ug/l
 RT: 5.90 min Scan# 1282
 Delta R.T. 0.00 min
 Lab File: VN053677.D
 Acq: 8 Feb 2019 13:17

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0208WBS01

Tot Ion: 43 Resp: 1294259
 Ion Ratio Lower Upper
 43 100
 86 10.6 8.4 12.6

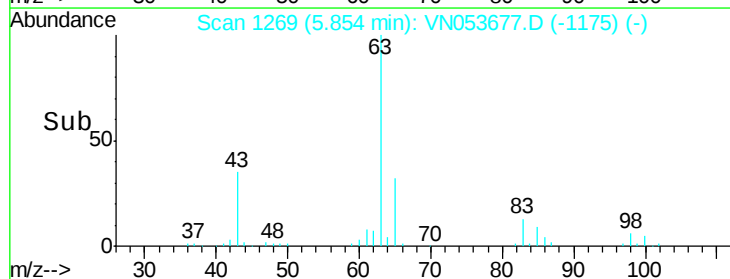
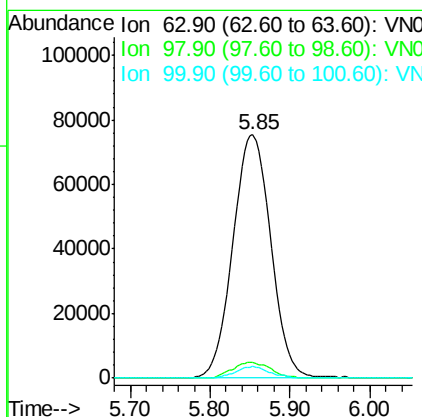
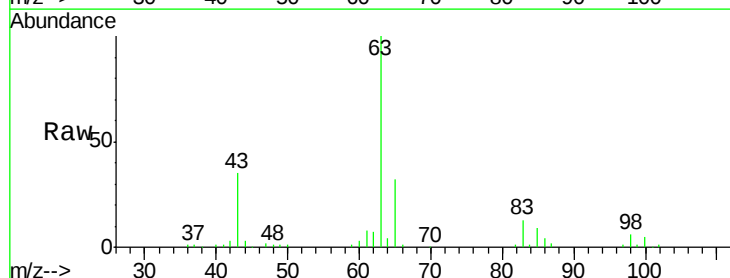
Manual Integrations
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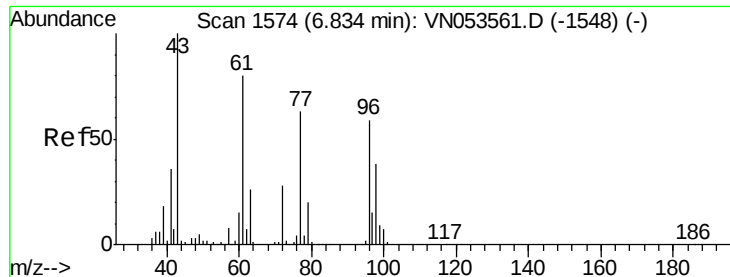
MMDadoda
 2/11/2019 9:50:21 AM



#24
 1,1-Dichloroethane
 Concen: 21.549 ug/l
 RT: 5.85 min Scan# 1269
 Delta R.T. 0.00 min
 Lab File: VN053677.D
 Acq: 8 Feb 2019 13:17

Tgt Ion: 63 Resp: 242689
 Ion Ratio Lower Upper
 63 100
 98 6.3 3.3 9.9
 100 4.7 2.1 6.5





#25

2-Butanone

Concen: 114.936 ug/l

RT: 6.84 min Scan# 1575

Delta R.T. 0.00 min

Lab File: VN053677.D

Acq: 8 Feb 2019 13:17

Instrument :

MSVOA_N

ClientSampleId :

VN0208WBS01

Tot Ion: 43 Resp: 260704

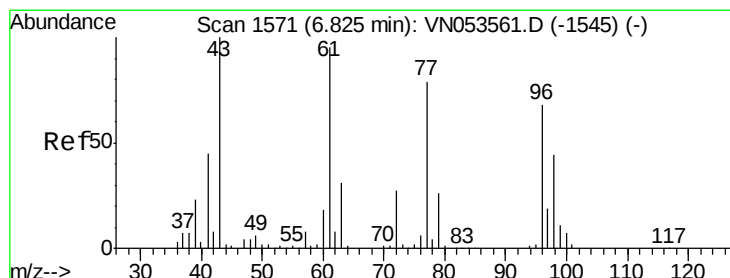
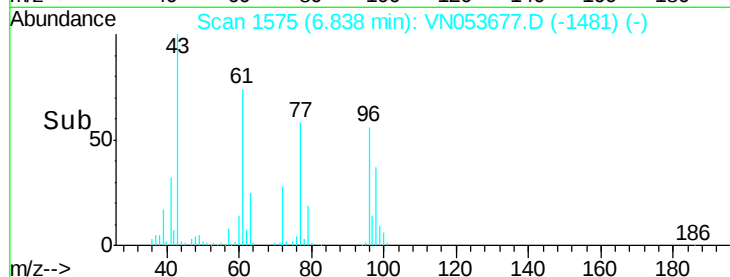
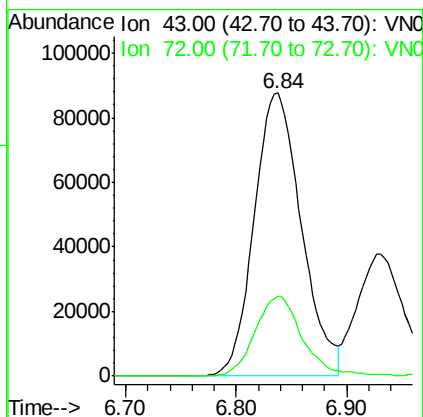
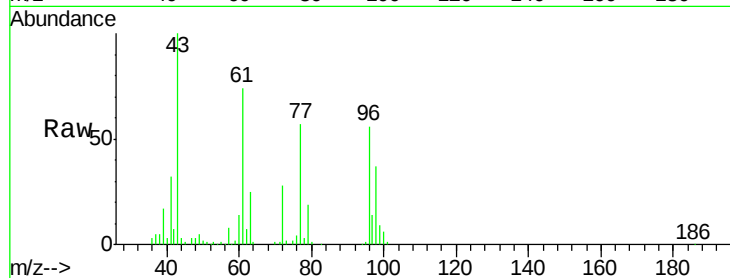
Ion Ratio Lower Upper

43 100

72 28.4 22.0 33.0

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#26

2,2-Dichloropropane

Concen: 20.622 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. 0.00 min

Lab File: VN053677.D

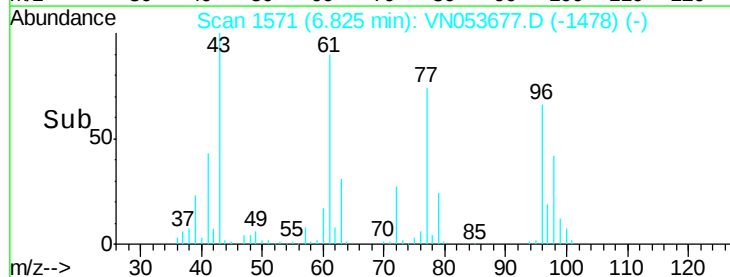
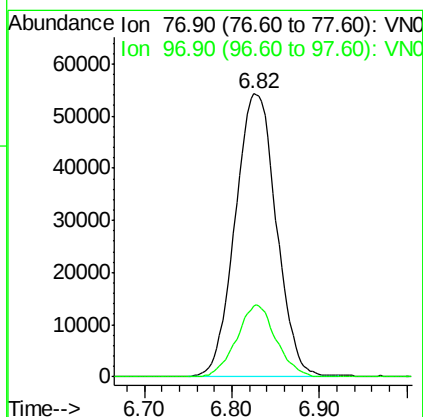
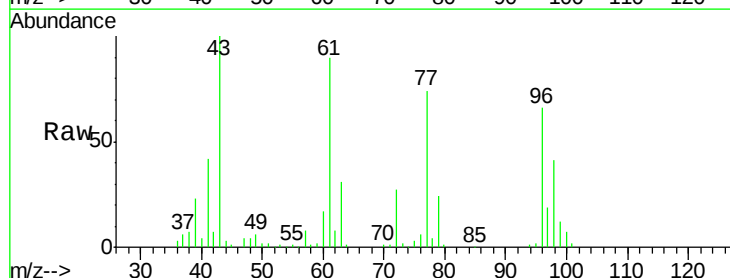
Acq: 8 Feb 2019 13:17

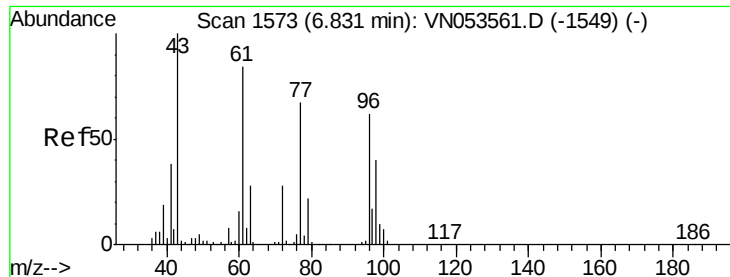
Tgt Ion: 77 Resp: 177296

Ion Ratio Lower Upper

77 100

97 24.4 12.2 36.6





#27

cis-1,2-Dichloroethene

Concen: 21.832 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. 0.00 min

Lab File: VN053677.D

Acq: 8 Feb 2019 13:17

Instrument :

MSVOA_N

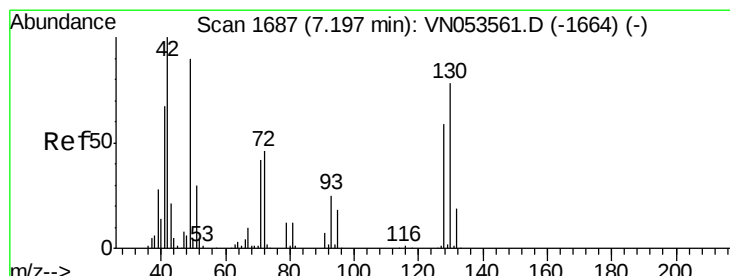
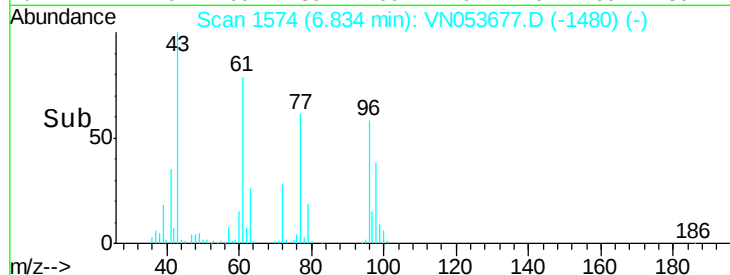
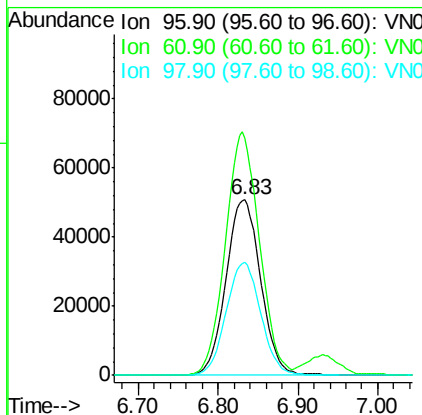
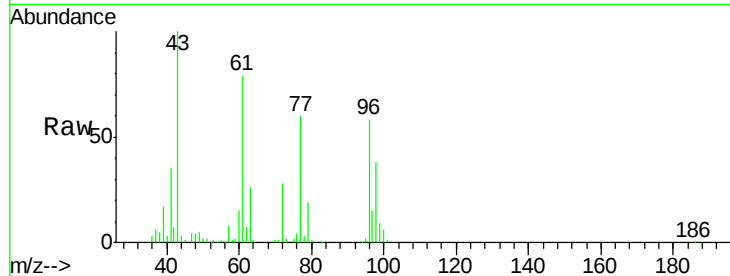
ClientSampleId :

VN0208WBS01

Tot Ion:	96	Resp:	149898
Ion	Ratio	Lower	Upper
96	100		
61	135.8	0.0	283.8
98	64.3	0.0	129.2

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#28

Bromochloromethane

Concen: 20.664 ug/l

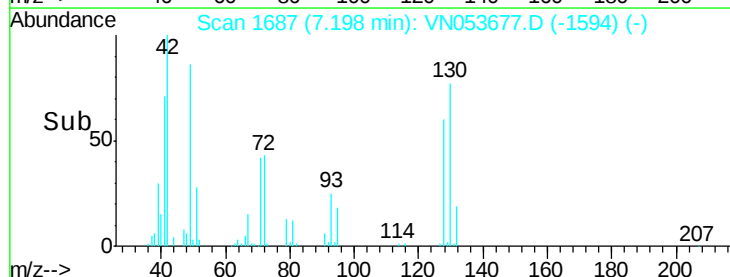
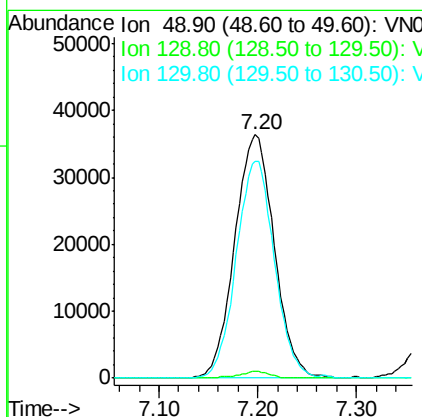
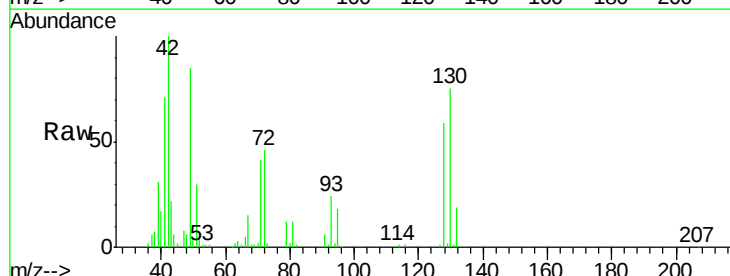
RT: 7.20 min Scan# 1687

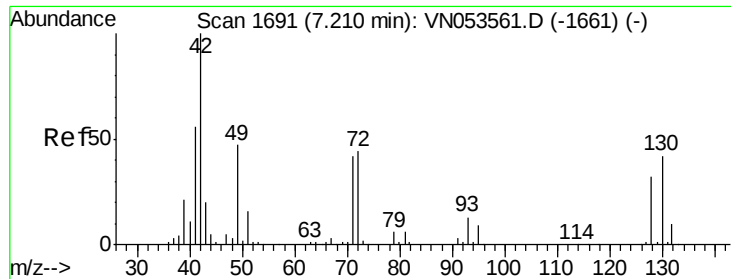
Delta R.T. 0.00 min

Lab File: VN053677.D

Acq: 8 Feb 2019 13:17

Tgt Ion:	49	Resp:	100992
Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	4.0
130	86.2	66.3	99.5





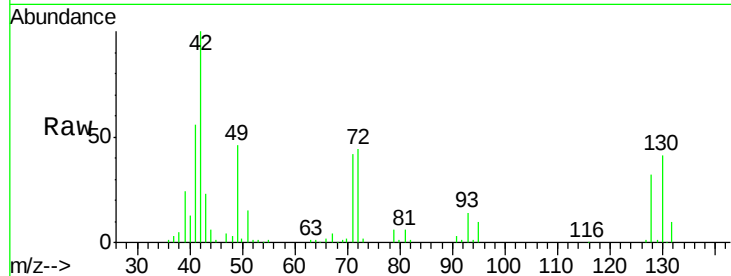
#29
Tetrahydrofuran
Concen: 117.333 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. 0.00 min
Lab File: VN053677.D
Acq: 8 Feb 2019 13:17

Instrument :
MSVOA_N
ClientSampleId :
VN0208WBS01

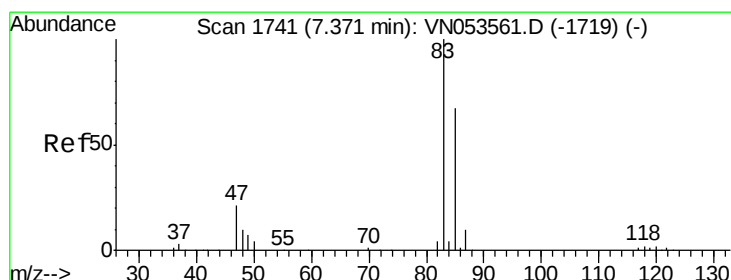
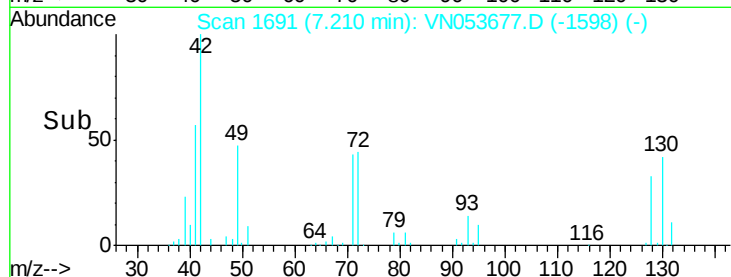
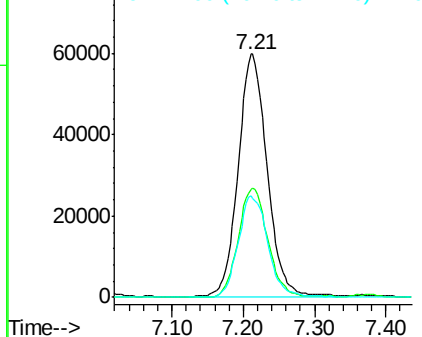
Tot Ion	Ratio	Lower	Upper
42	100		
72	45.2	35.2	52.8
71	42.4	33.0	49.4

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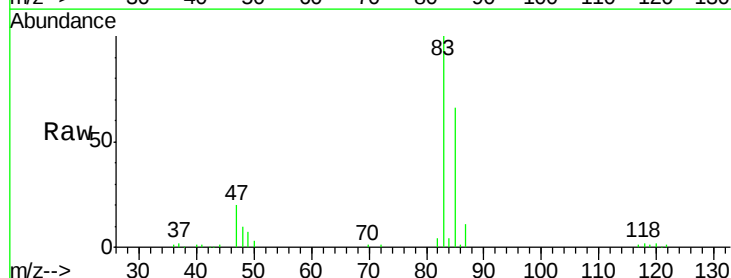


Abundance Ion 42.00 (41.70 to 42.70): VN0
Ion 72.00 (71.70 to 72.70): VN0
Ion 71.00 (70.70 to 71.70): VN0

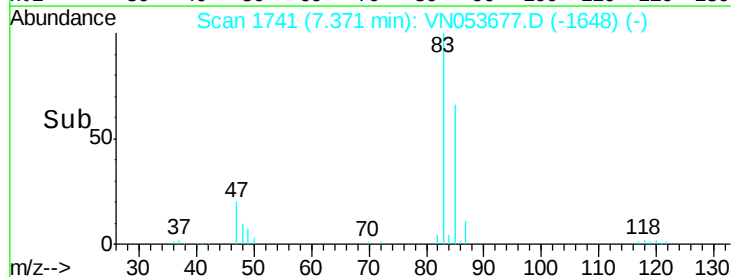
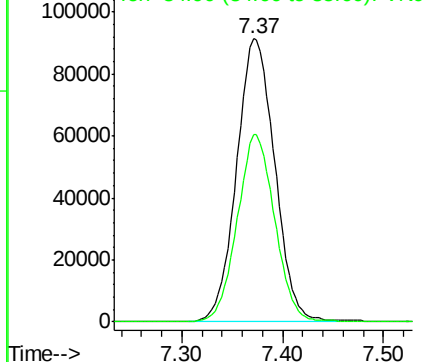


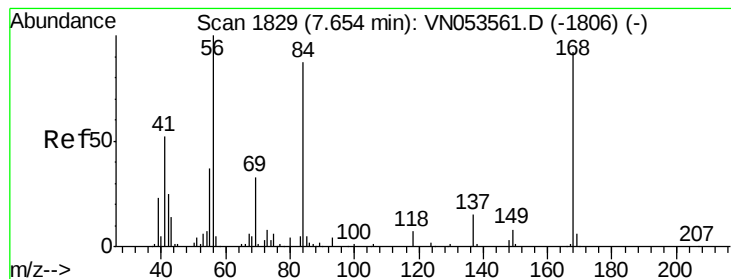
#30
Chloroform
Concen: 21.462 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. 0.00 min
Lab File: VN053677.D
Acq: 8 Feb 2019 13:17

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.4	52.2	78.2



Abundance Ion 82.90 (82.60 to 83.60): VN0
Ion 84.90 (84.60 to 85.60): VN0





#31

Cyclohexane

Concen: 19.900 ug/l

RT: 7.66 min Scan# 1830

Delta R.T. 0.00 min

Lab File: VN053677.D

Acq: 8 Feb 2019 13:17

Instrument :

MSVOA_N

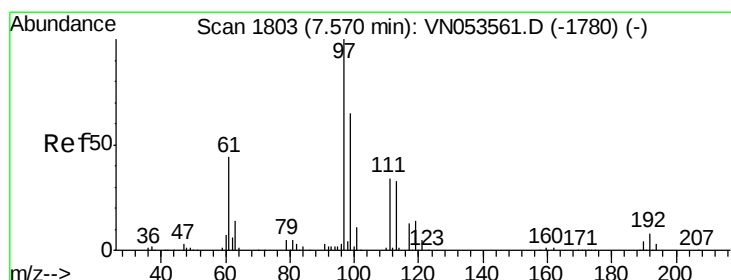
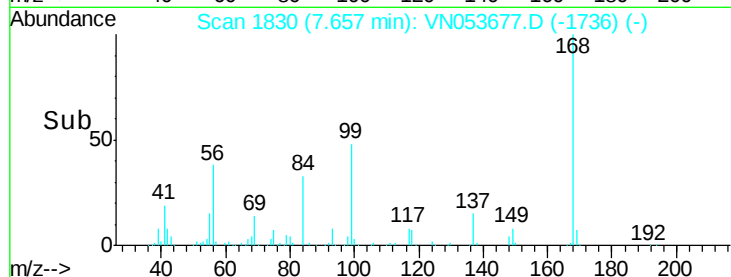
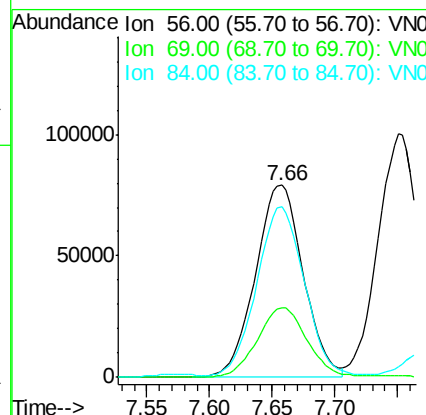
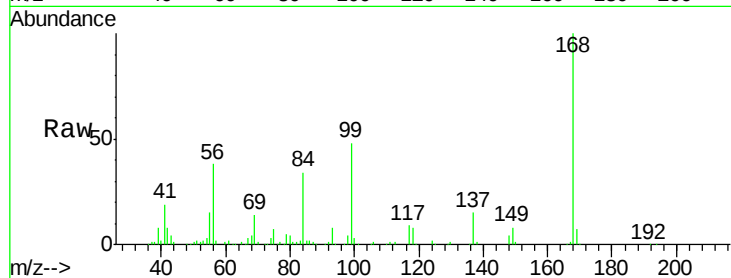
ClientSampled :

VN0208WBS01

Tot Ion:	56	Resp:	209738
Ion Ratio		Lower	Upper
56	100		
69	36.5	26.4	39.6
84	87.3	67.9	101.9

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#32

1,1,1-Trichloroethane

Concen: 21.556 ug/l

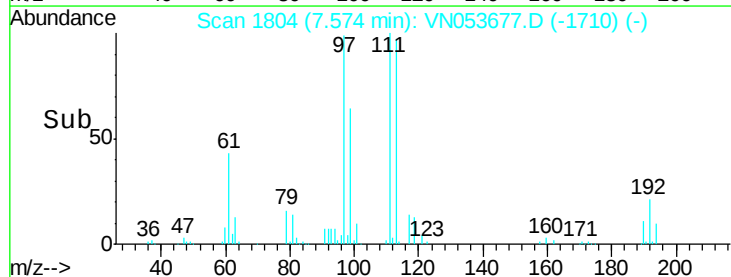
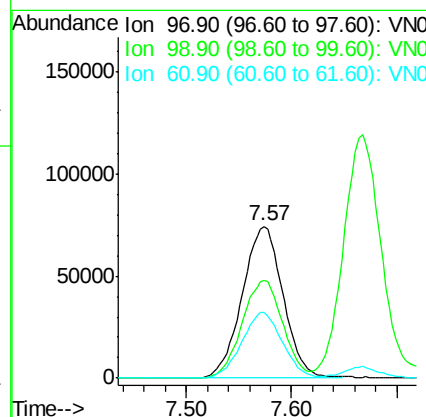
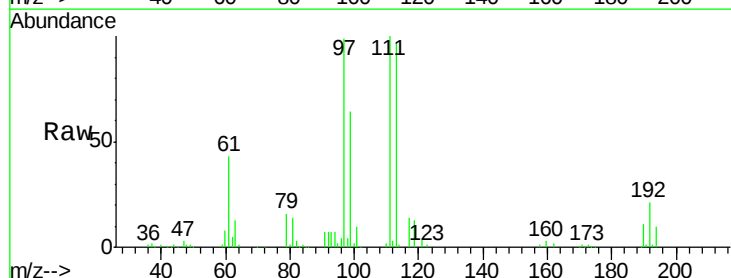
RT: 7.57 min Scan# 1804

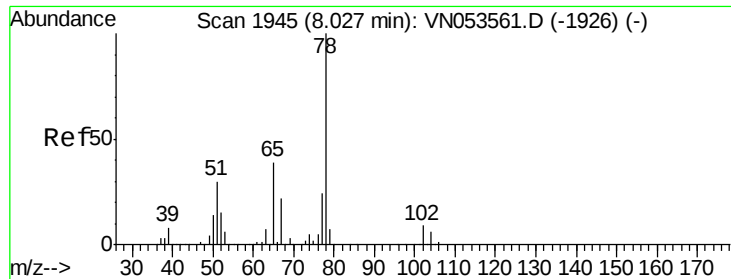
Delta R.T. 0.00 min

Lab File: VN053677.D

Acq: 8 Feb 2019 13:17

Tgt Ion:	97	Resp:	200279
Ion Ratio		Lower	Upper
97	100		
99	64.3	52.0	78.0
61	43.0	34.4	51.6





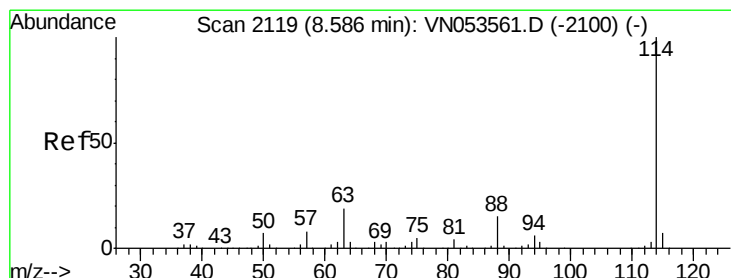
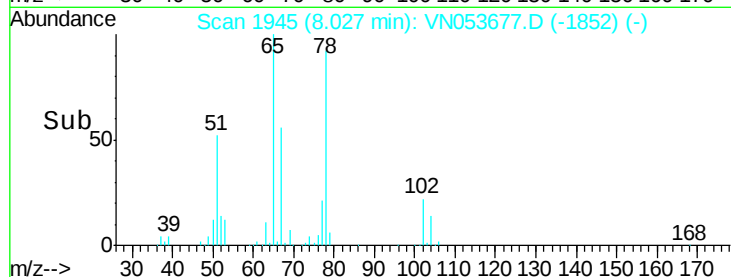
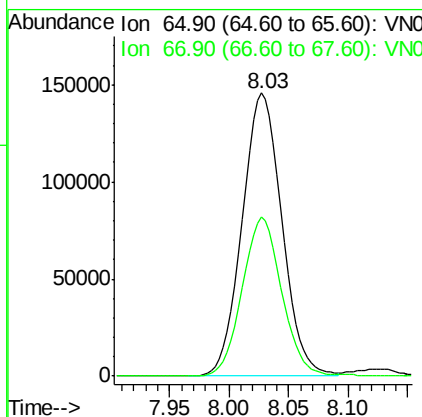
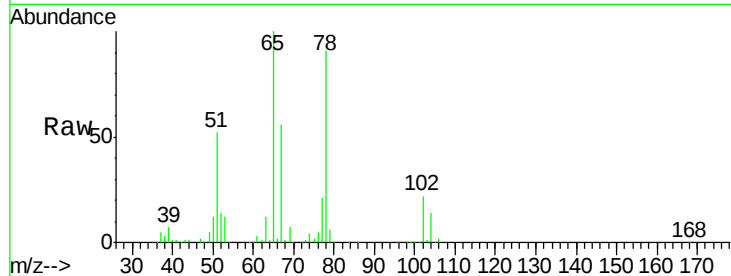
#33
 1,2-Dichloroethane-d4
 Concen: 54.577 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN053677.D
 Acq: 8 Feb 2019 13:17

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0208WBS01

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	55.7	0.0	111.2	

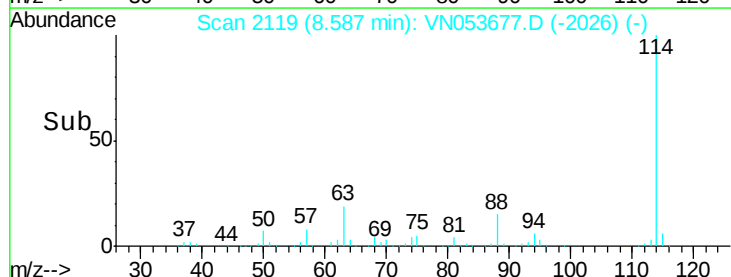
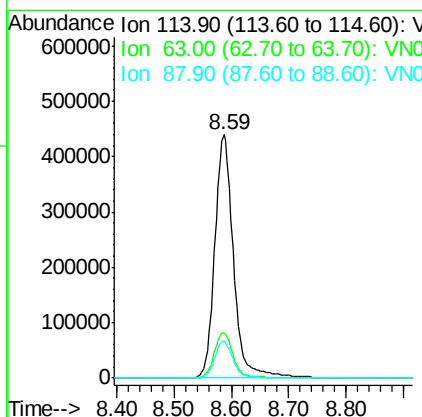
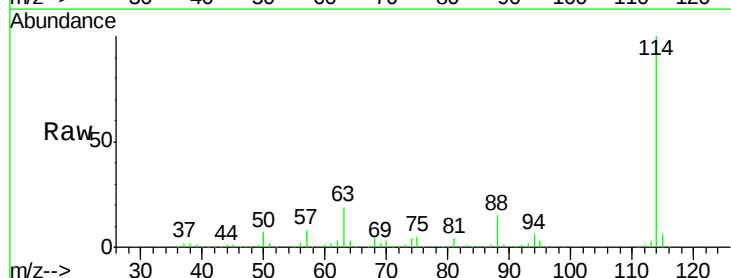
Manual Integrations
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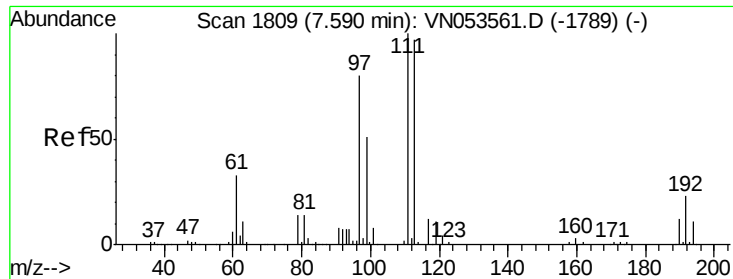
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 2/11/2019 9:50:21 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053677.D
 Acq: 8 Feb 2019 13:17

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	18.8	0.0	38.6	
88	15.2	0.0	30.4	





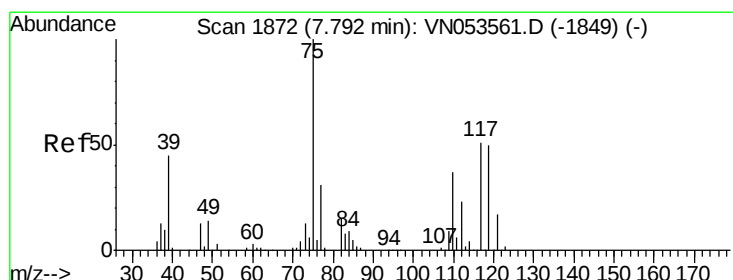
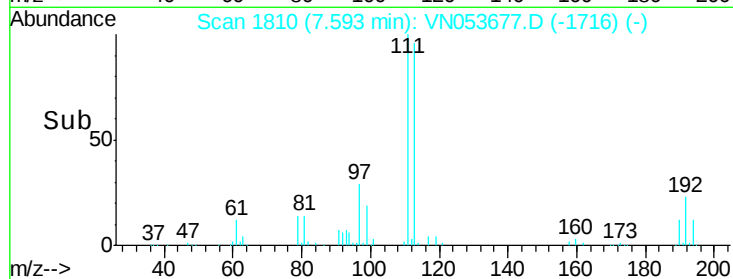
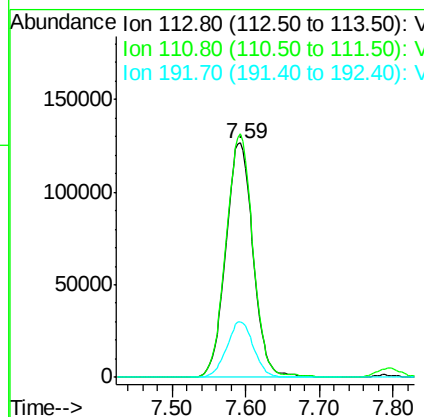
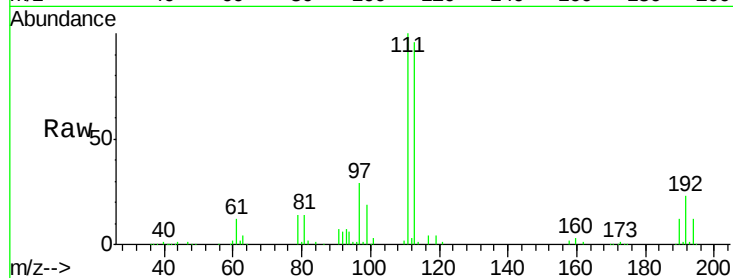
#35
 Dibromofluoromethane
 Concen: 51.602 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN053677.D
 Acq: 8 Feb 2019 13:17

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0208WBS01

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	102.0	81.1	121.7	
192	23.3	18.2	27.2	

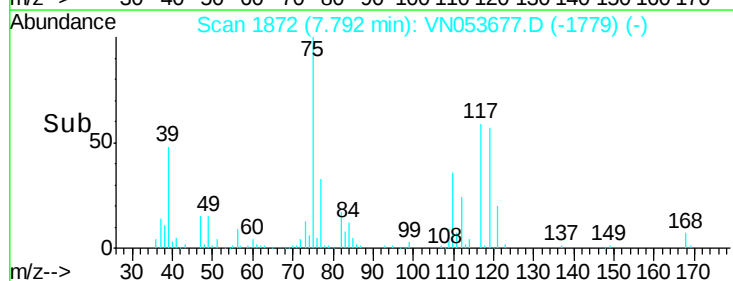
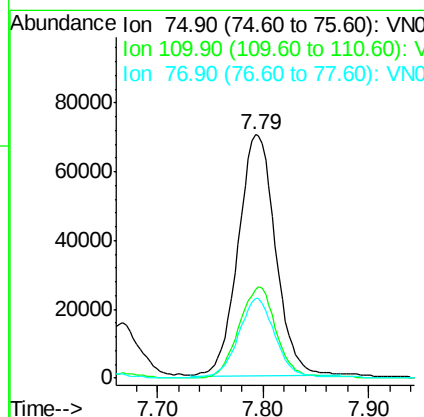
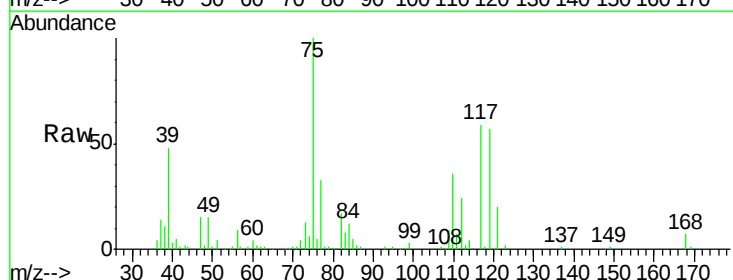
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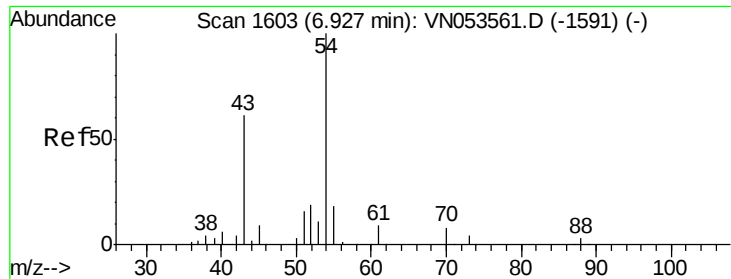
MMDadoda
 2/11/2019 9:50:21 AM



#36
 1,1-Dichloropropene
 Concen: 19.132 ug/l
 RT: 7.79 min Scan# 1872
 Delta R.T. 0.00 min
 Lab File: VN053677.D
 Acq: 8 Feb 2019 13:17

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
110	38.0	18.1	54.3	
77	33.0	25.1	37.7	





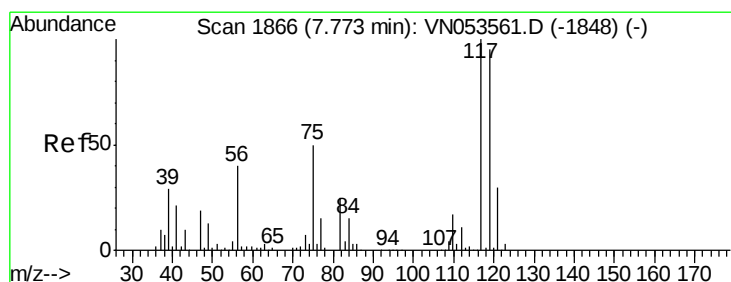
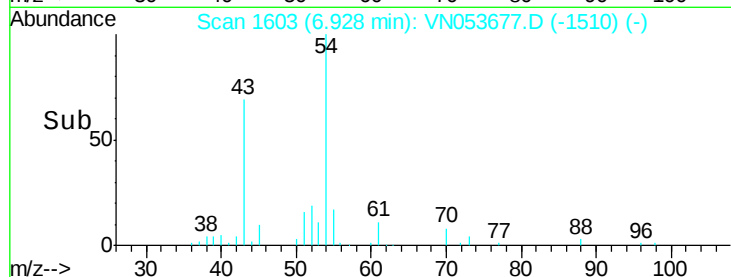
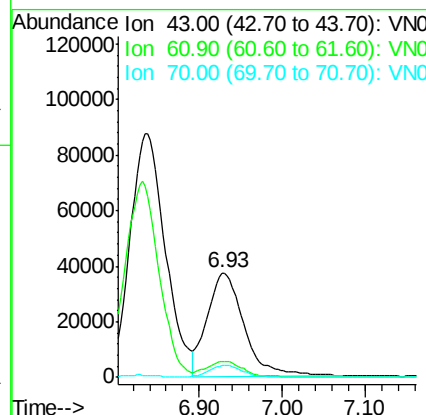
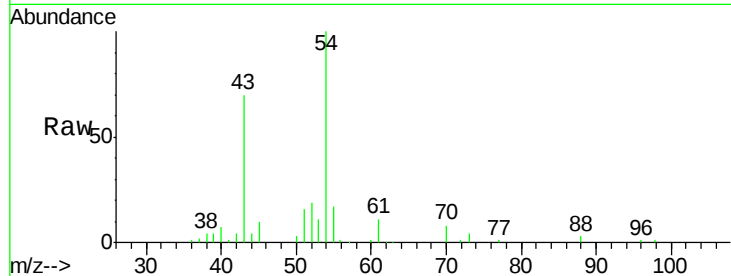
#37
Ethyl Acetate
Concen: 22.943 ug/l
RT: 6.93 min Scan# 1603
Delta R.T. 0.00 min
Lab File: VN053677.D
Acq: 8 Feb 2019 13:17

Instrument :
MSVOA_N
ClientSampleId :
VN0208WBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.9	11.8	17.6
70	10.6	8.6	12.8

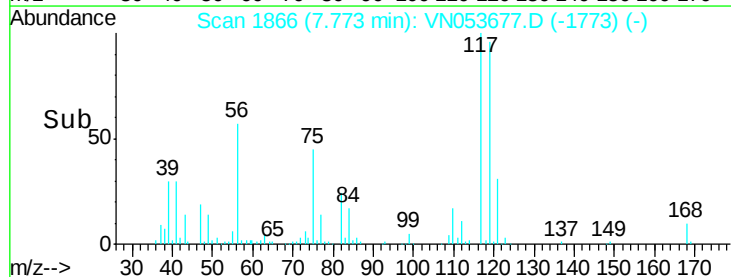
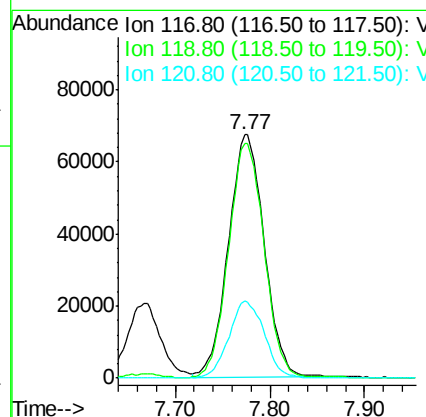
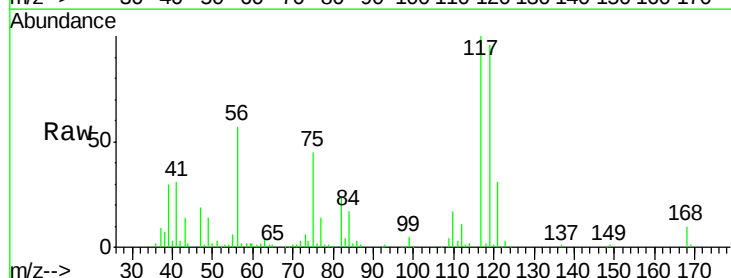
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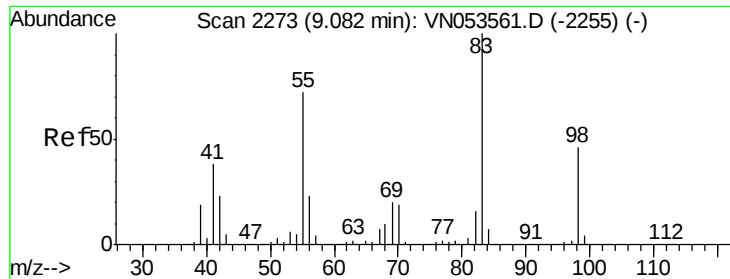
MMDadoda
2/11/2019 9:50:21 AM



#38
Carbon Tetrachloride
Concen: 19.532 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. 0.00 min
Lab File: VN053677.D
Acq: 8 Feb 2019 13:17

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.5	77.2	115.8
121	31.7	24.6	37.0





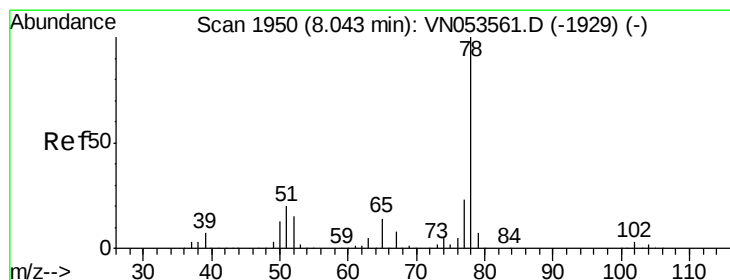
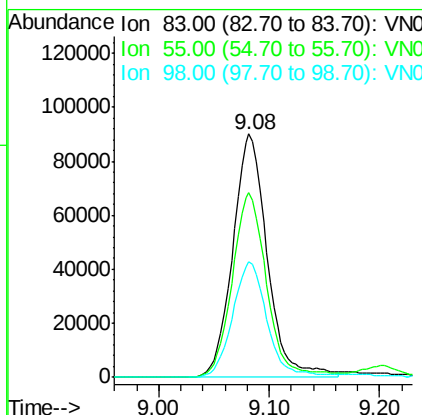
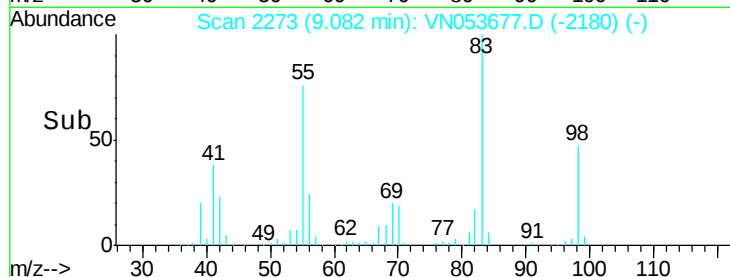
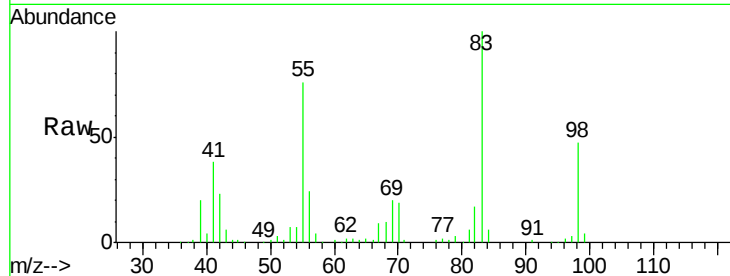
#39
Methvlcvclohexane
Concen: 18.291 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN053677.D
Acq: 8 Feb 2019 13:17

Instrument :
MSVOA_N
ClientSampleId :
VN0208WBS01

Tot Ion	Ratio	Resp	Lower	Upper
83	100	195588		
55	75.6	60.1	90.1	
98	47.4	36.6	55.0	

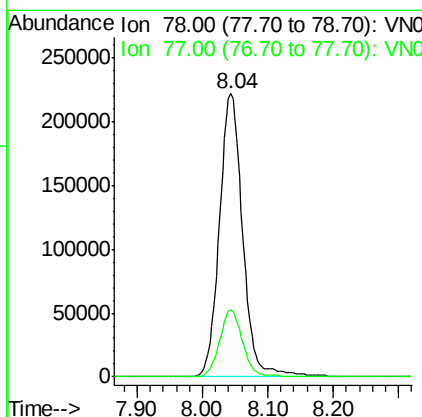
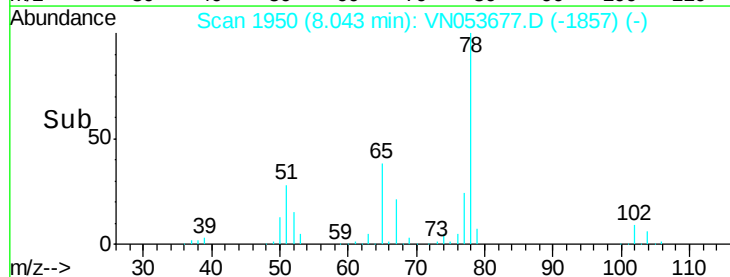
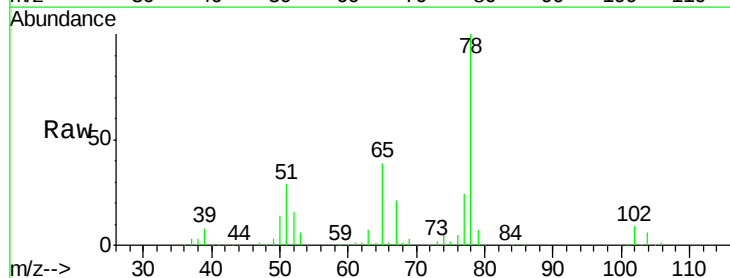
Manual Integrations
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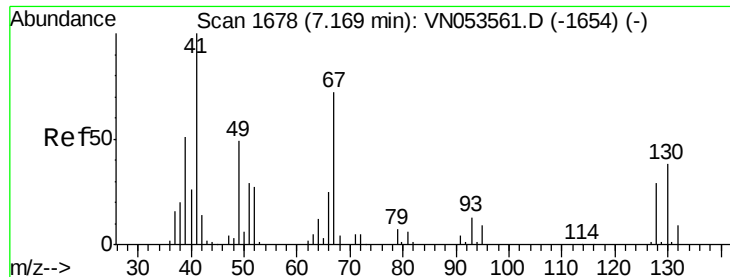
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2/11/2019 9:50:21 AM



#40
Benzene
Concen: 19.787 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN053677.D
Acq: 8 Feb 2019 13:17

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	549978		
77	23.8	18.8	28.2	





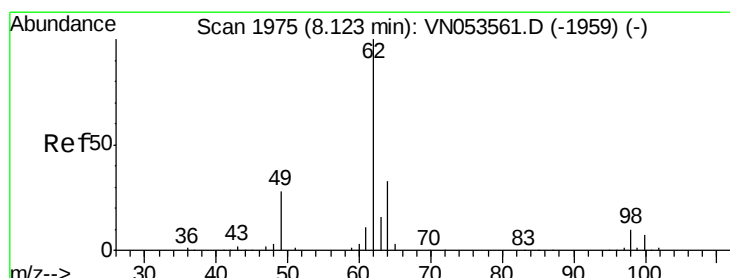
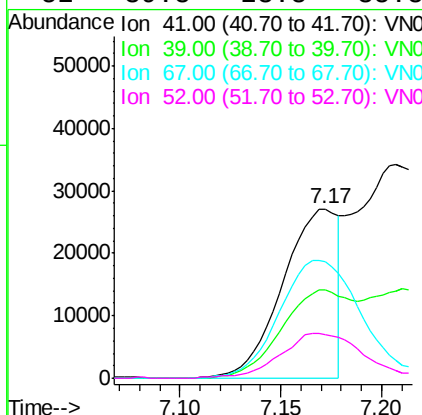
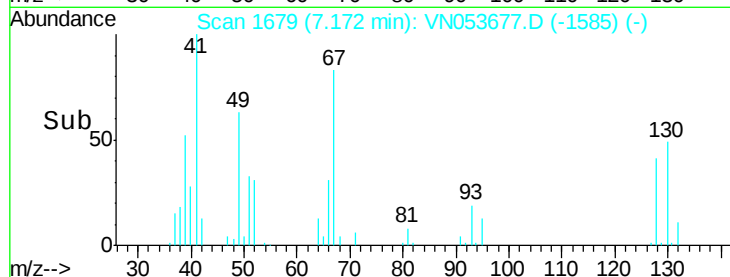
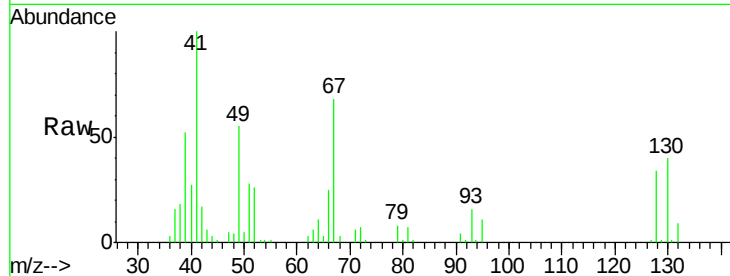
#41
Methacrylonitrile
Concen: 18.310 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. 0.00 min
Lab File: VN053677.D
Acq: 8 Feb 2019 13:17

Instrument :
MSVOA_N
ClientSampleId :
VN0208WBS01

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	67.0	46.8	70.2	
67	105.3	63.0	94.6	#
52	39.8	23.8	35.8	#

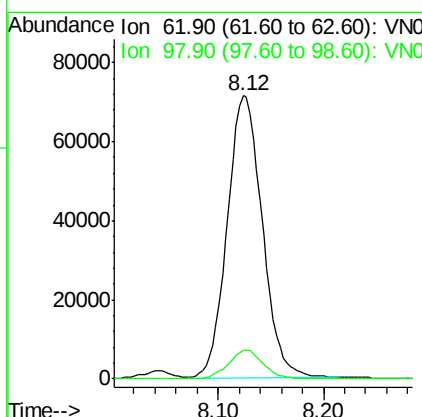
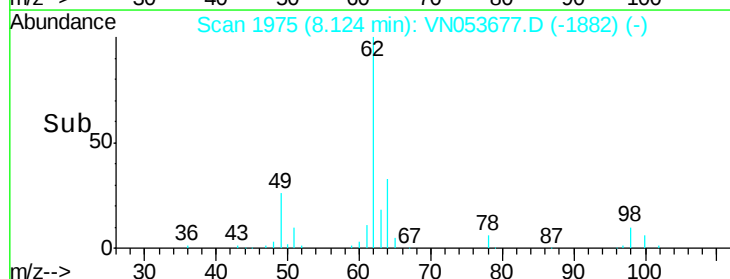
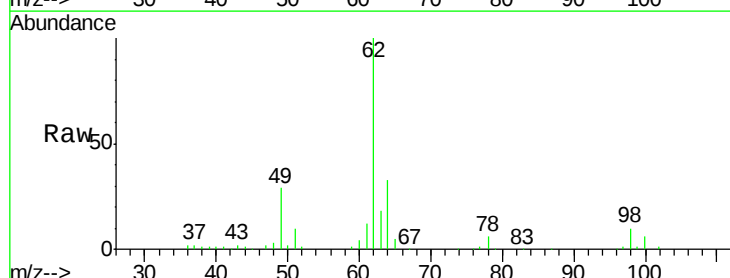
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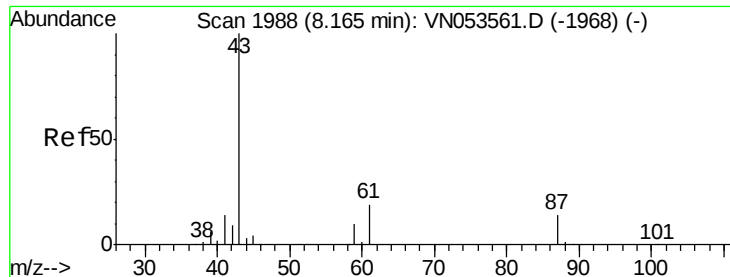
MMDadoda
2/11/2019 9:50:21 AM



#42
1,2-Dichloroethane
Concen: 19.976 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. 0.00 min
Lab File: VN053677.D
Acq: 8 Feb 2019 13:17

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	10.0	0.0	19.6	





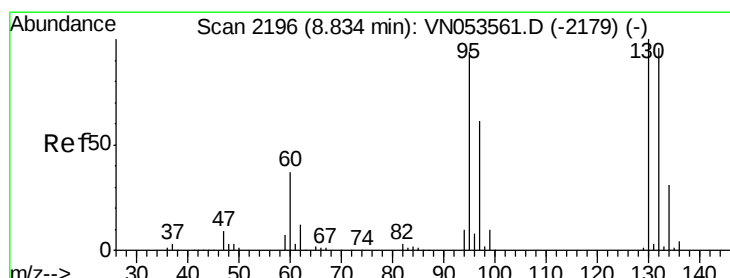
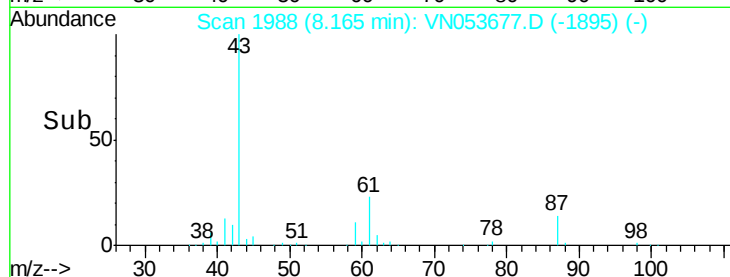
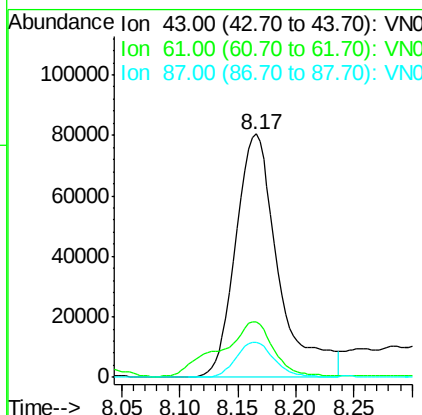
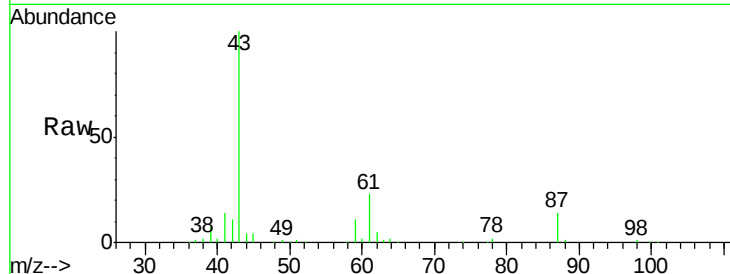
#43
Isopropyl Acetate
Concen: 21.065 ug/l
RT: 8.17 min Scan# 1988
Delta R.T. 0.00 min
Lab File: VN053677.D
Acq: 8 Feb 2019 13:17

Instrument :
MSVOA_N
ClientSampleId :
VN0208WBS01

Tot Ion	43	Resp	204783
Ion Ratio	100	Lower	Upper
43	100		
61	28.2	23.9	35.9
87	12.9	11.0	16.6

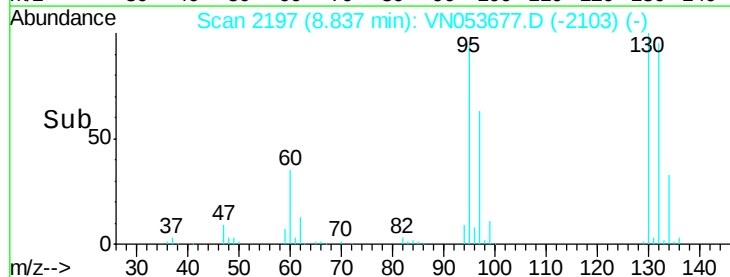
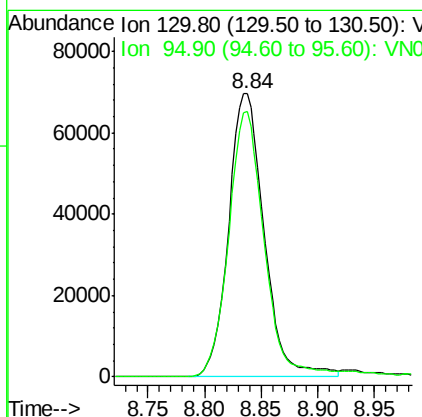
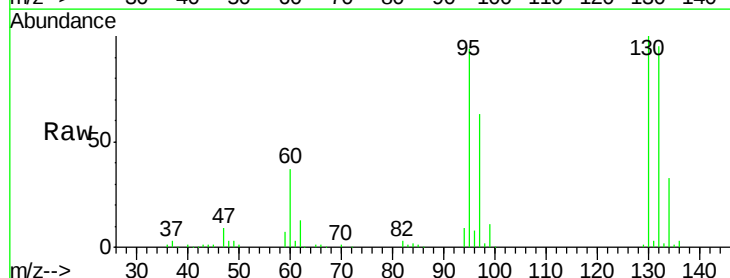
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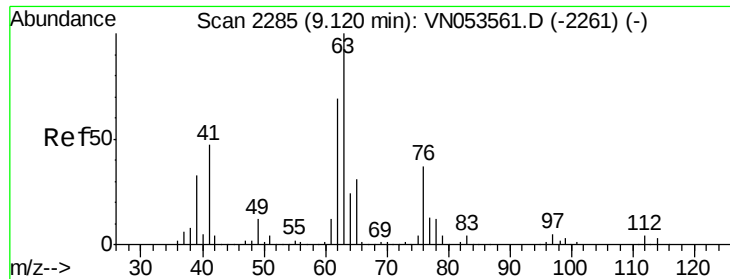
MMDadoda
2/11/2019 9:50:21 AM



#44
Trichloroethene
Concen: 19.321 ug/l
RT: 8.84 min Scan# 2197
Delta R.T. 0.00 min
Lab File: VN053677.D
Acq: 8 Feb 2019 13:17

Tgt Ion	130	Resp	152886
Ion Ratio	100	Lower	Upper
130	100		
95	93.6	0.0	191.4





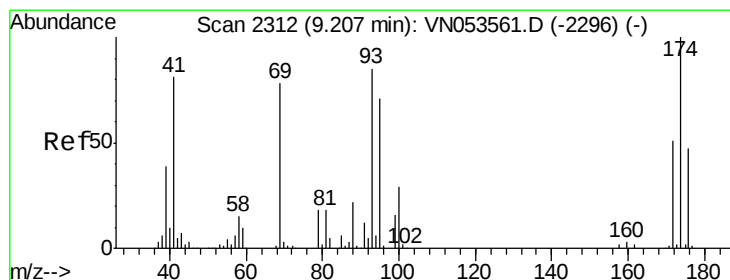
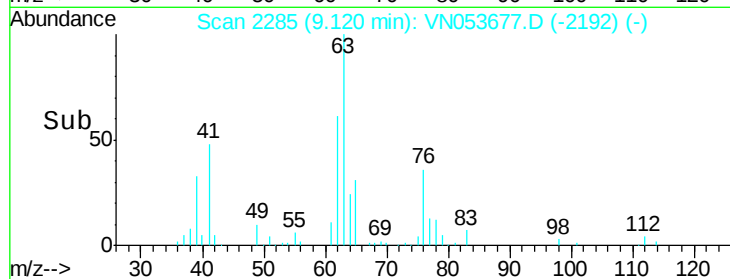
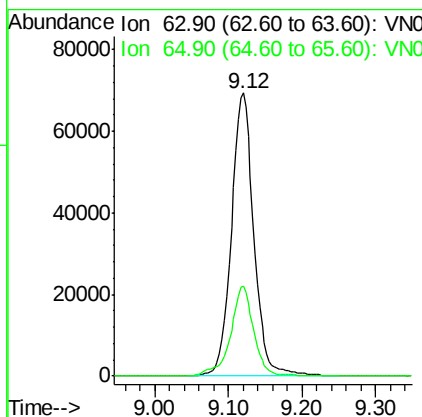
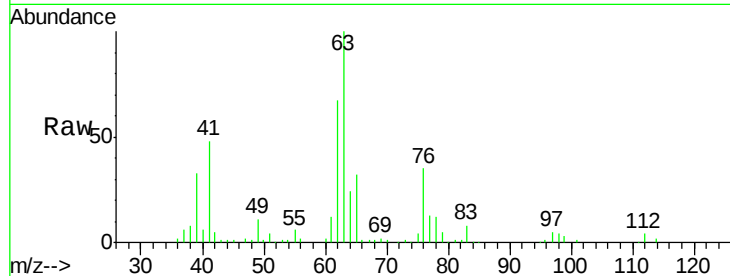
#45
 1,2-Dichloropropane
 Concen: 20.596 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN053677.D
 Acq: 8 Feb 2019 13:17

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0208WBS01

Tot Ion: 63 Resp: 146423
 Ion Ratio Lower Upper
 63 100
 65 31.9 25.0 37.4

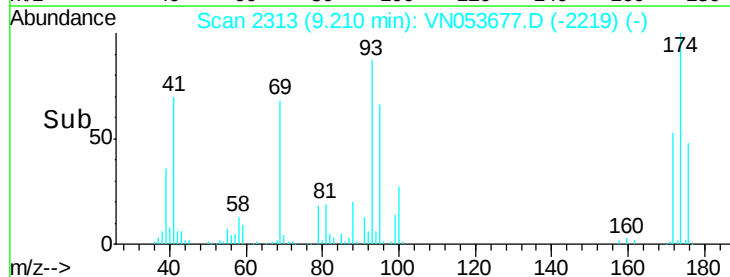
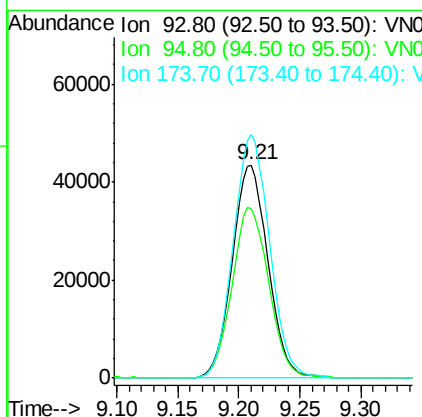
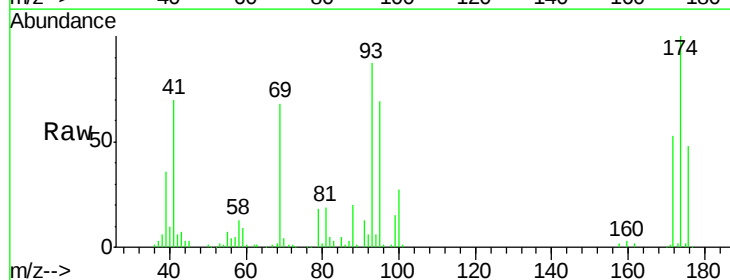
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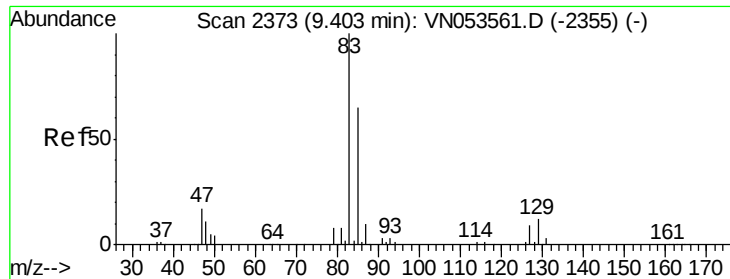
MMDadoda
 2/11/2019 9:50:21 AM



#46
 Dibromomethane
 Concen: 20.627 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN053677.D
 Acq: 8 Feb 2019 13:17

Tgt Ion: 93 Resp: 88397
 Ion Ratio Lower Upper
 93 100
 95 82.4 67.3 100.9
 174 116.3 91.0 136.4





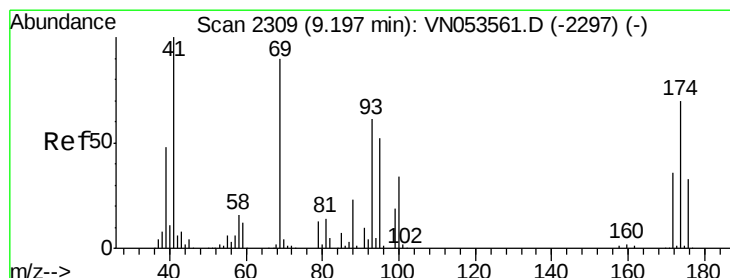
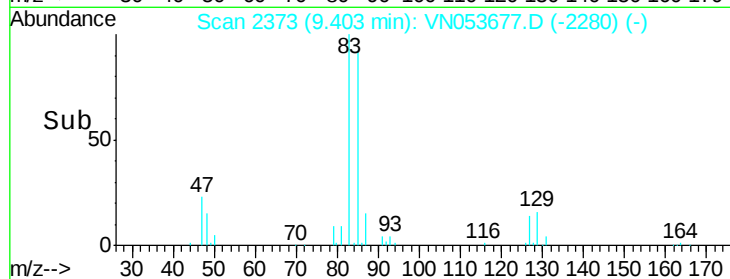
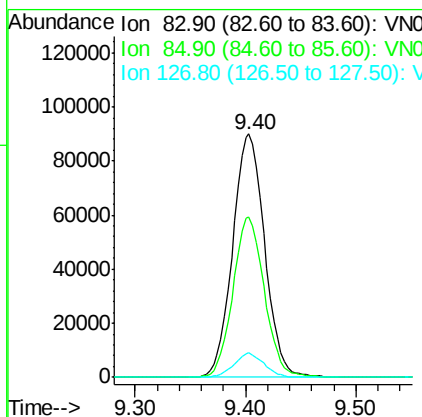
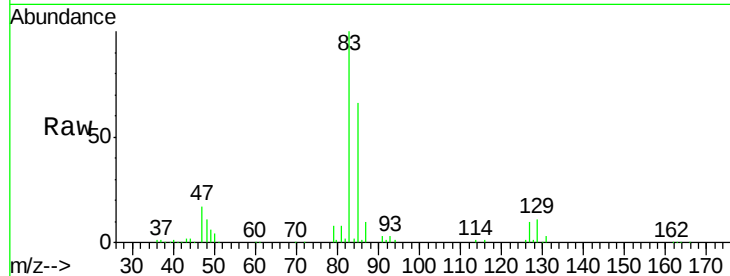
#47
Bromodichloromethane
Concen: 20.341 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. 0.00 min
Lab File: VN053677.D
Acq: 8 Feb 2019 13:17

Instrument :
MSVOA_N
ClientSampleId :
VN0208WBS01

Tot Ion	83	Resp	181250
Ion Ratio	100	Lower	Upper
83	100		
85	65.8	51.0	76.6
127	9.9	7.0	10.6

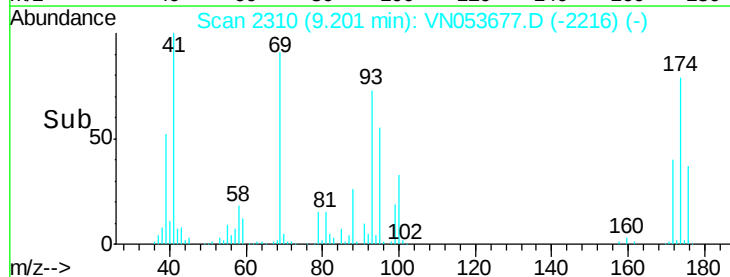
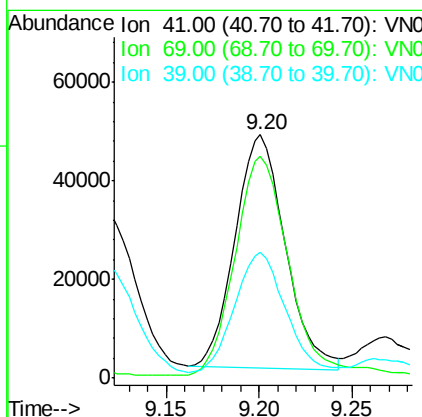
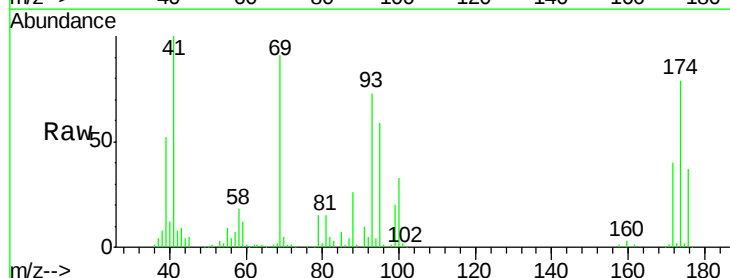
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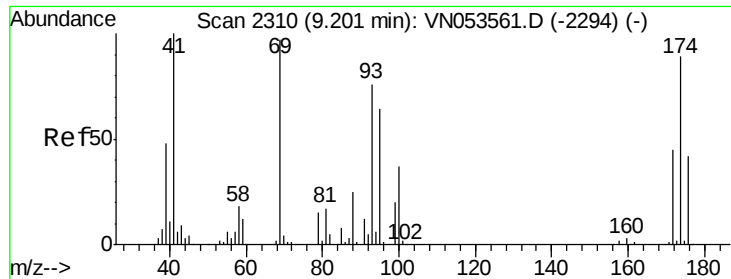
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#48
Methyl methacrylate
Concen: 19.137 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN053677.D
Acq: 8 Feb 2019 13:17

Tgt Ion	41	Resp	88807
Ion Ratio	100	Lower	Upper
41	100		
69	105.4	73.8	110.6
39	57.3	40.0	60.0





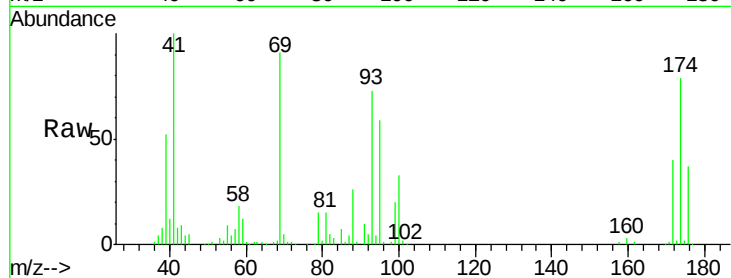
#49
1,4-Dioxane
Concen: 440.024 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN053677.D
Acq: 8 Feb 2019 13:17

Instrument :
MSVOA_N
ClientSampleId :
VN0208WBS01

Tot Ion	Ratio	Lower	Upper
88	100		
43	27.9	27.8	41.6
58	67.0	56.5	84.7

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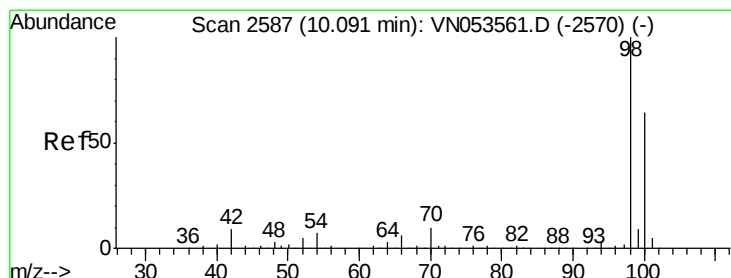
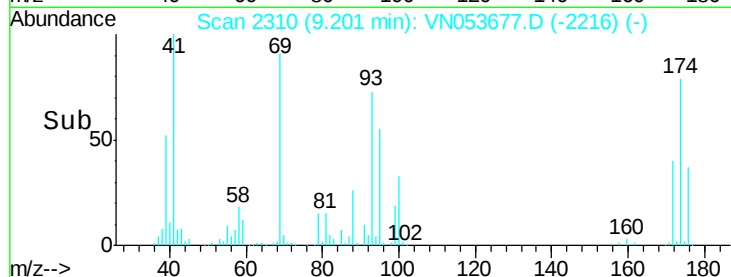
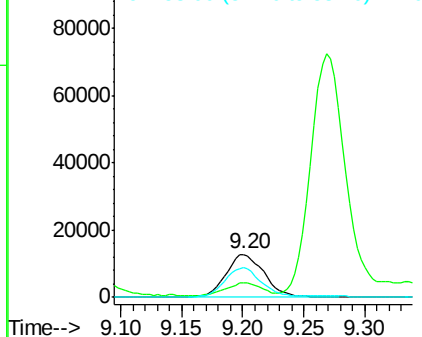


Abundance

Ion 88.00 (87.70 to 88.70): VN053561.D (-2294) (-)

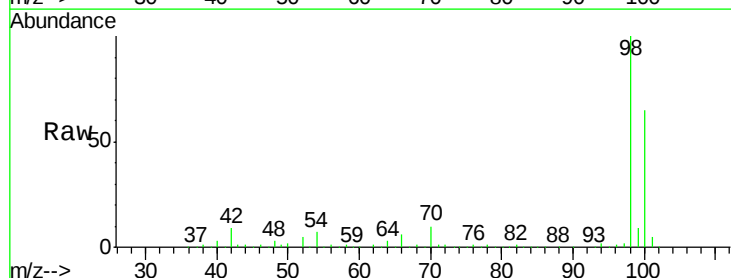
Ion 43.00 (42.70 to 43.70): VN053561.D (-2294) (-)

Ion 58.00 (57.70 to 58.70): VN053561.D (-2294) (-)



#50
Toluene-d8
Concen: 49.757 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN053677.D
Acq: 8 Feb 2019 13:17

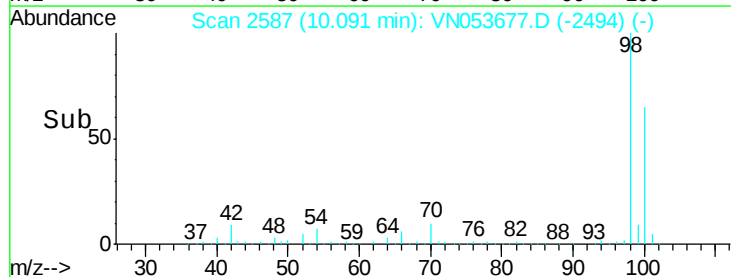
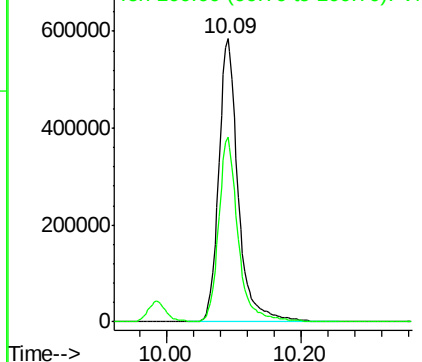
Tgt Ion	Ratio	Lower	Upper
98	100		
100	65.3	51.4	77.0

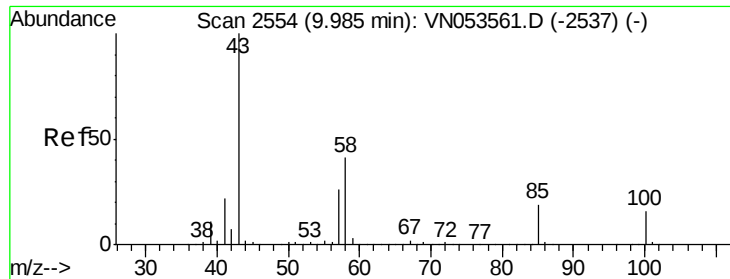


Abundance

Ion 98.00 (97.70 to 98.70): VN053561.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN053561.D (-2570) (-)





#51

4-Methyl-2-Pentanone

Concen: 108.438 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN053677.D

Acq: 8 Feb 2019 13:17

Instrument :

MSVOA_N

ClientSampleId :

VN0208WBS01

Tot Ion: 43 Resp: 518036

Ion Ratio Lower Upper

43 100

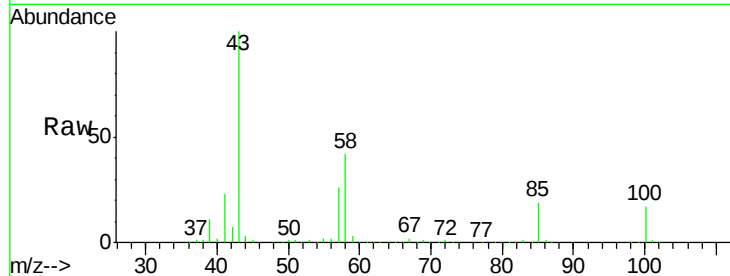
58 41.2 32.8 49.2

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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

9.99

250000

200000

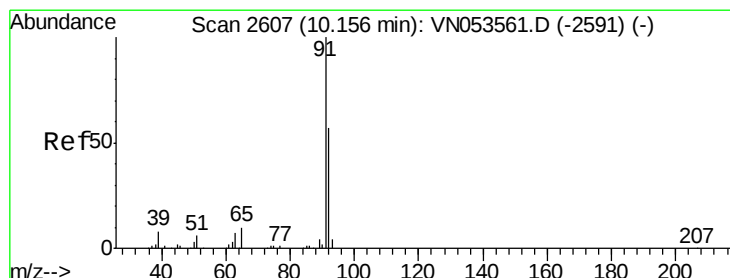
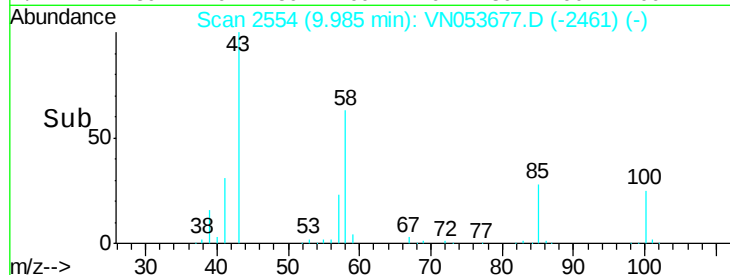
150000

100000

50000

0

Time-->



#52

Toluene

Concen: 20.109 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN053677.D

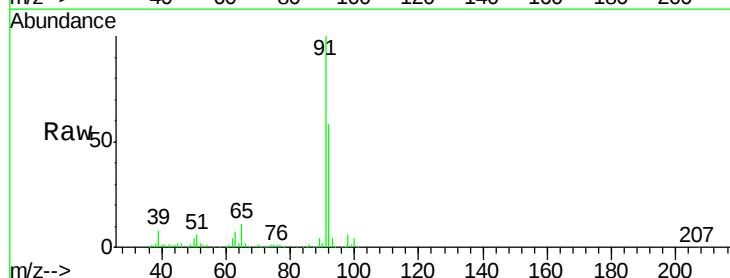
Acq: 8 Feb 2019 13:17

Tgt Ion: 92 Resp: 331722

Ion Ratio Lower Upper

92 100

91 173.8 139.9 209.9



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0

10.16

300000

250000

200000

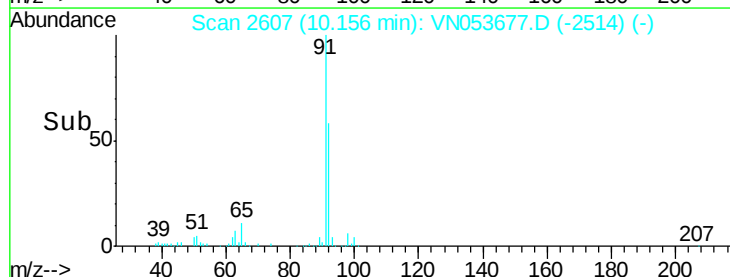
150000

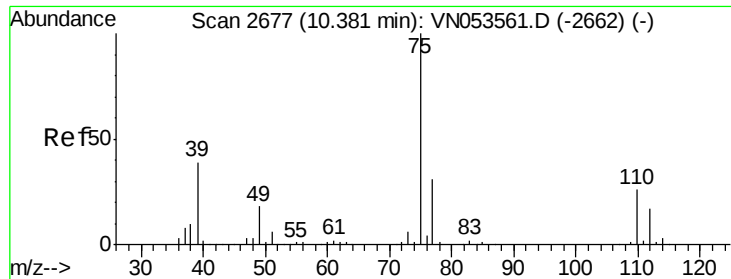
100000

50000

0

Time-->





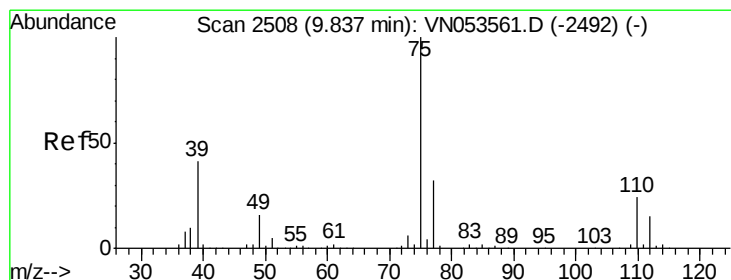
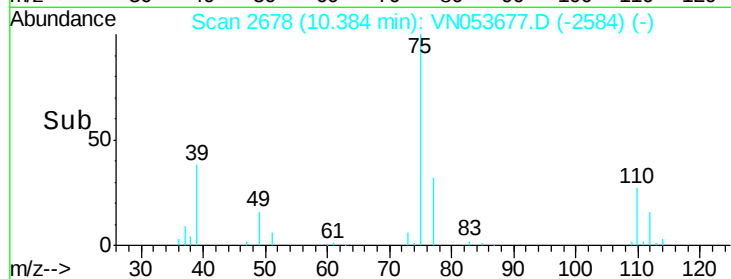
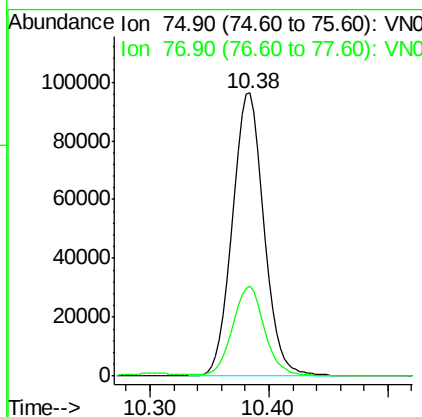
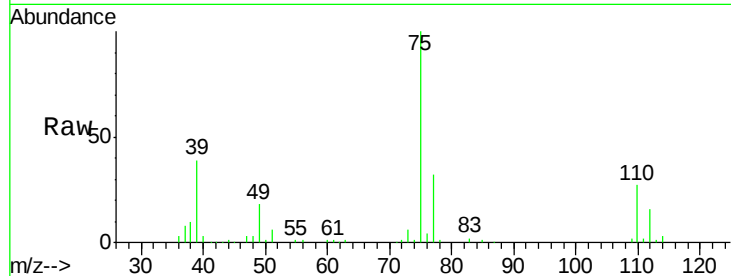
#53
t-1,3-Dichloropropene
Concen: 19.910 ug/l
RT: 10.38 min Scan# 2678
Delta R.T. 0.00 min
Lab File: VN053677.D
Acq: 8 Feb 2019 13:17

Instrument :
MSVOA_N
ClientSampleId :
VN0208WBS01

Tot Ion: 75 Resp: 177649
Ion Ratio Lower Upper
75 100
77 31.6 25.5 38.3

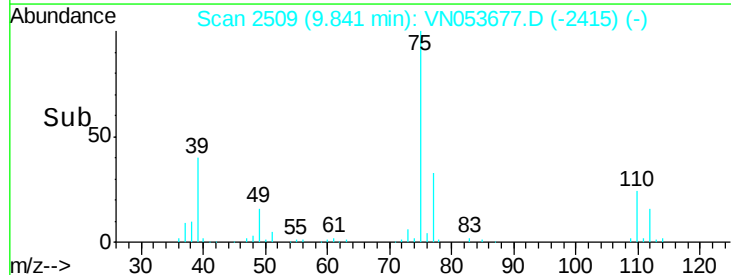
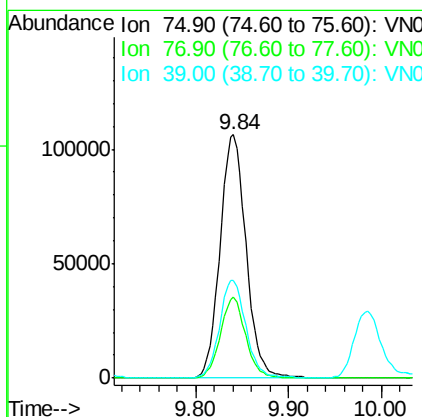
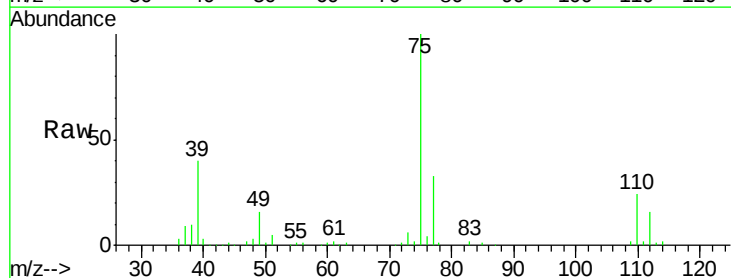
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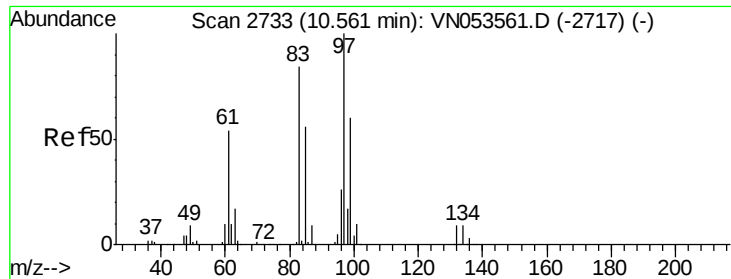
MMDadoda
2/11/2019 9:50:21 AM



#54
cis-1,3-Dichloropropene
Concen: 19.624 ug/l
RT: 9.84 min Scan# 2509
Delta R.T. 0.00 min
Lab File: VN053677.D
Acq: 8 Feb 2019 13:17

Tgt Ion: 75 Resp: 207480
Ion Ratio Lower Upper
75 100
77 33.3 25.8 38.6
39 40.0 33.4 50.0





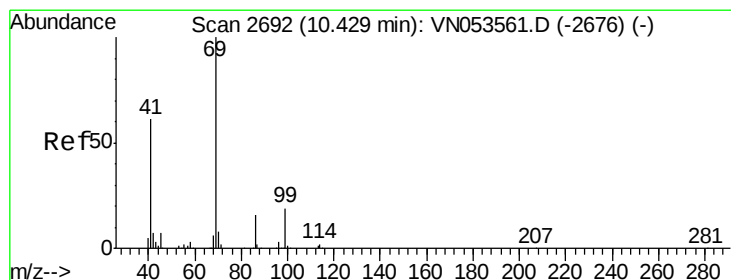
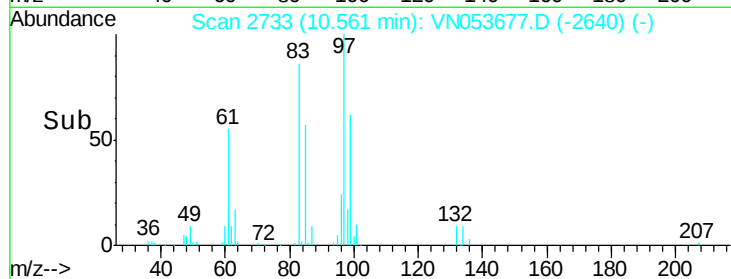
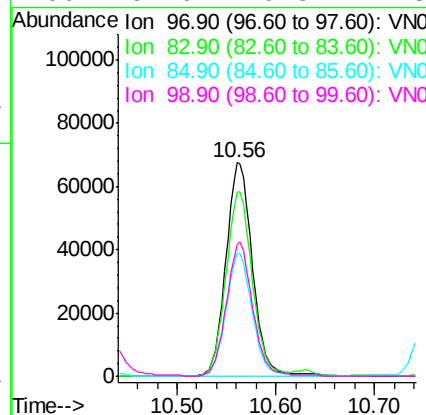
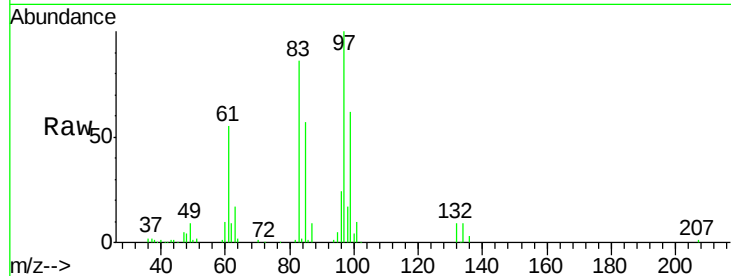
#55
 1,1,2-Trichloroethane
 Concen: 21.506 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. 0.00 min
 Lab File: VN053677.D
 Acq: 8 Feb 2019 13:17

Instrument :
 MSVOA_N
 ClientSampled :
 VN0208WBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		127837		
83	86.5	70.1	105.1		
85	57.5	45.4	68.0		
99	61.6	49.8	74.8		

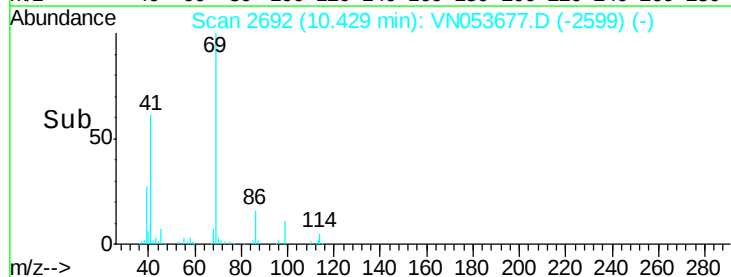
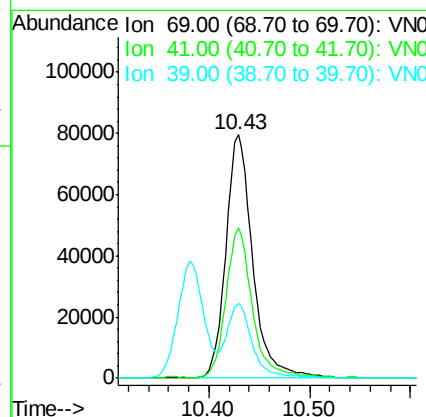
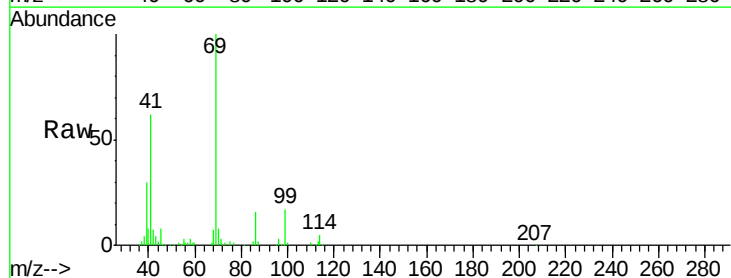
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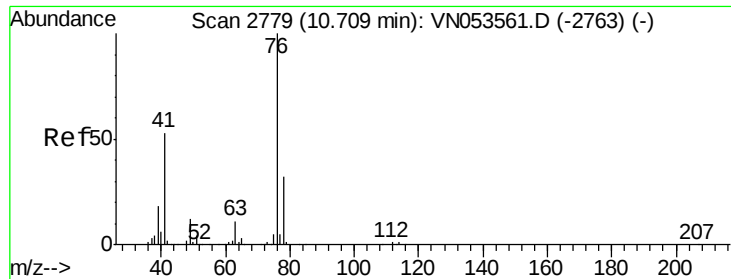
MMDadoda
 2/11/2019 9:50:21 AM



#56
 Ethyl methacrylate
 Concen: 21.075 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN053677.D
 Acq: 8 Feb 2019 13:17

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		148201		
41	60.1	49.4	74.0		
39	28.6	23.3	34.9		





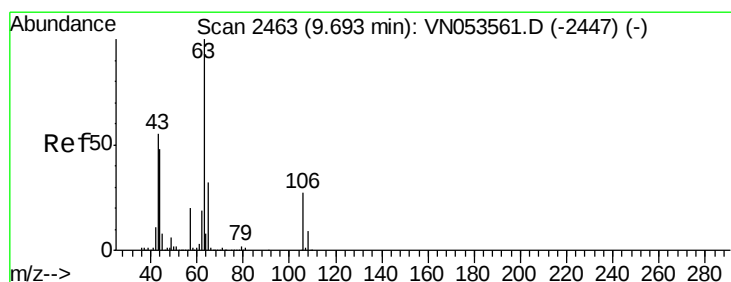
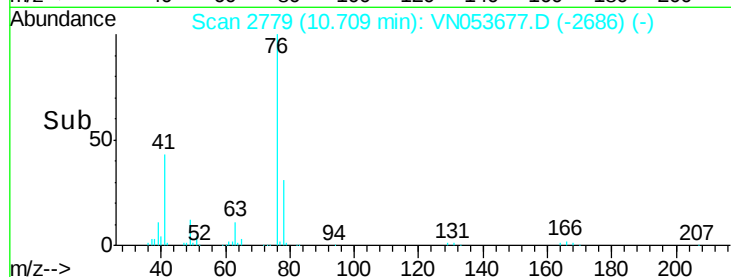
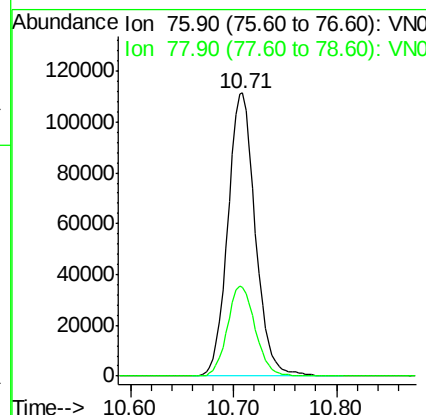
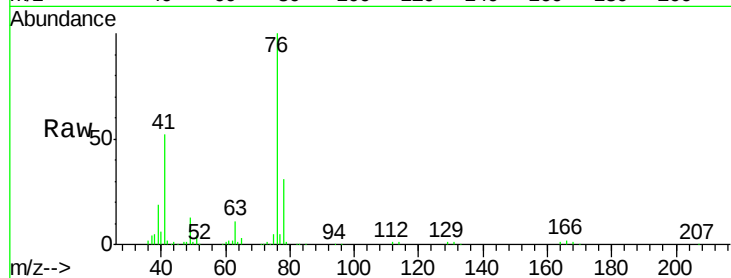
#57
 1,3-Dichloropropane
 Concen: 20.350 ug/l
 RT: 10.71 min Scan# 2779
 Delta R.T. 0.00 min
 Lab File: VN053677.D
 Acq: 8 Feb 2019 13:17

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0208WBS01

Tot Ion: 76 Resp: 206736
 Ion Ratio Lower Upper
 76 100
 78 32.2 25.6 38.4

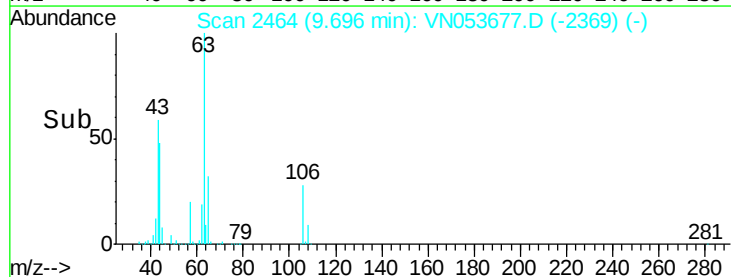
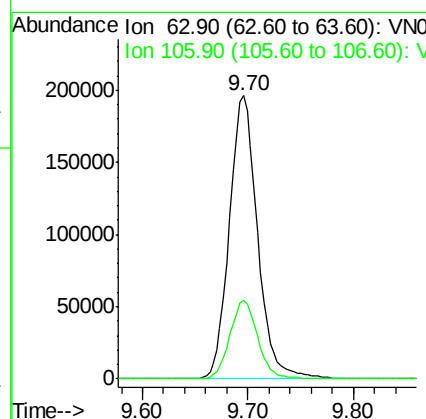
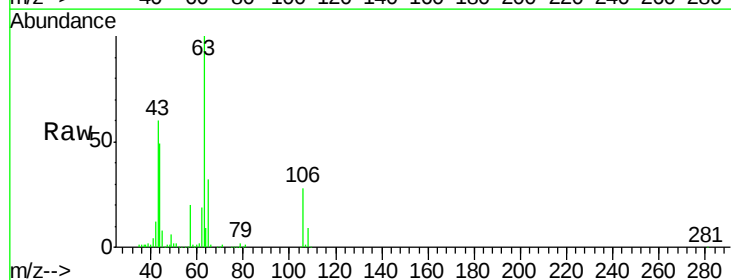
Manual Integrations
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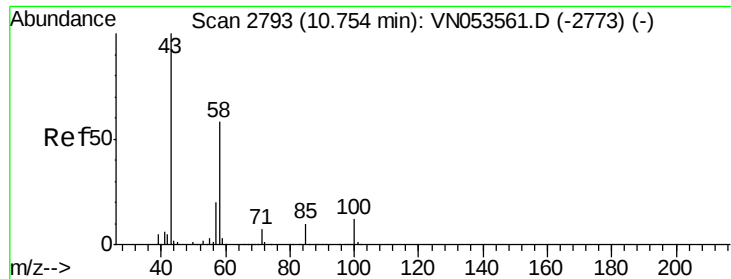
MMDadoda
 2/11/2019 9:50:21 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 88.698 ug/l
 RT: 9.70 min Scan# 2464
 Delta R.T. 0.00 min
 Lab File: VN053677.D
 Acq: 8 Feb 2019 13:17

Tgt Ion: 63 Resp: 363539
 Ion Ratio Lower Upper
 63 100
 106 27.6 21.5 32.3





#59

2-Hexanone

Concen: 101.736 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.00 min

Lab File: VN053677.D

Acq: 8 Feb 2019 13:17

Instrument :

MSVOA_N

ClientSampleId :

VN0208WBS01

Tot Ion: 43 Resp: 329945

Ion Ratio Lower Upper

43 100

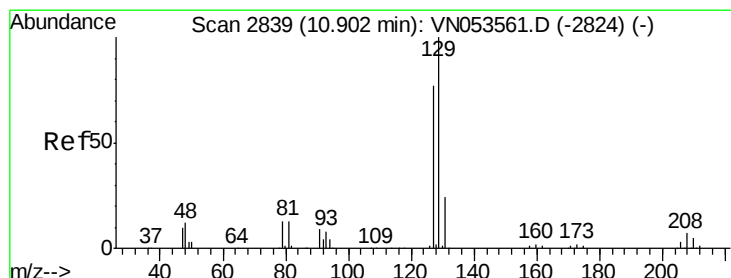
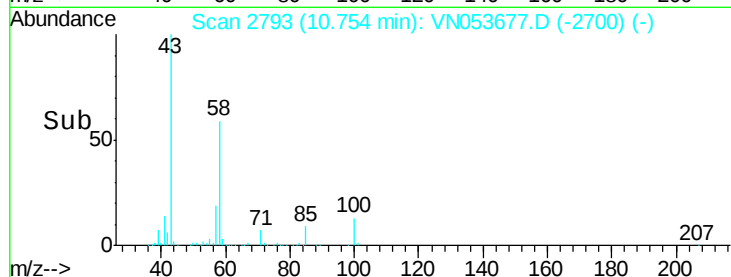
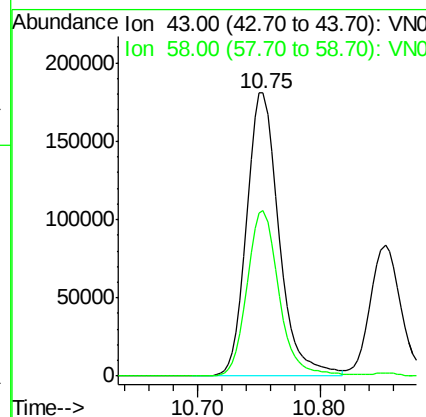
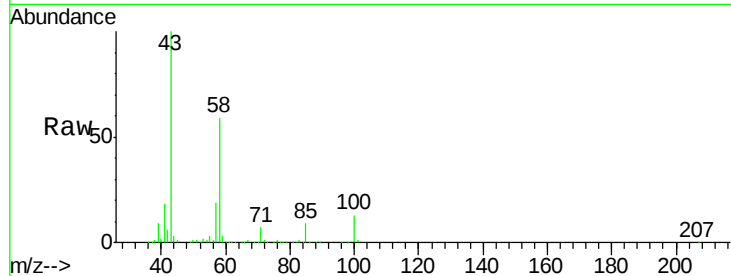
58 57.8 28.6 85.8

Manual Integrations

APPROVED

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2/11/2019 9:50:21 AM



#60

Dibromochloromethane

Concen: 20.597 ug/l

RT: 10.90 min Scan# 2839

Delta R.T. 0.00 min

Lab File: VN053677.D

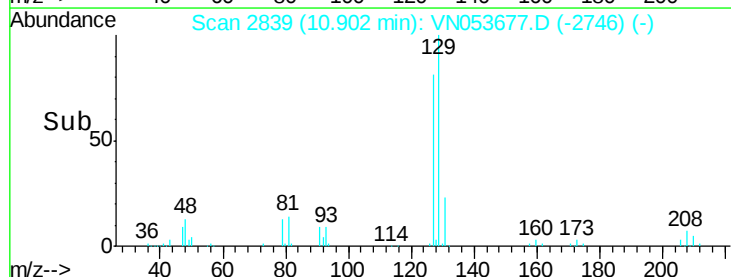
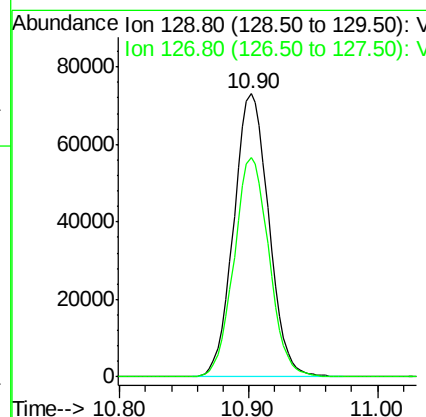
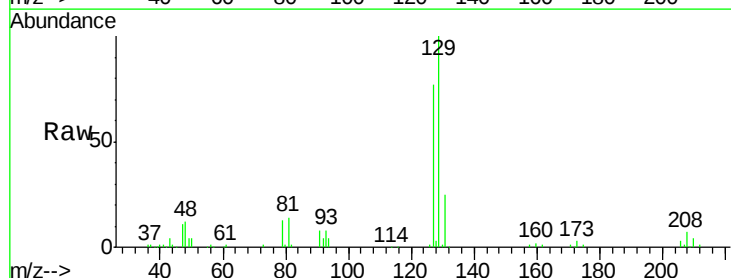
Acq: 8 Feb 2019 13:17

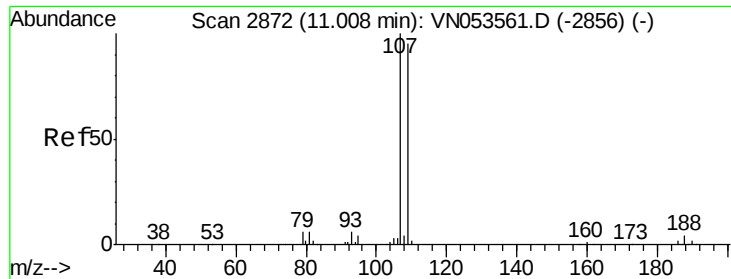
Tgt Ion: 129 Resp: 138064

Ion Ratio Lower Upper

129 100

127 77.3 38.6 115.8





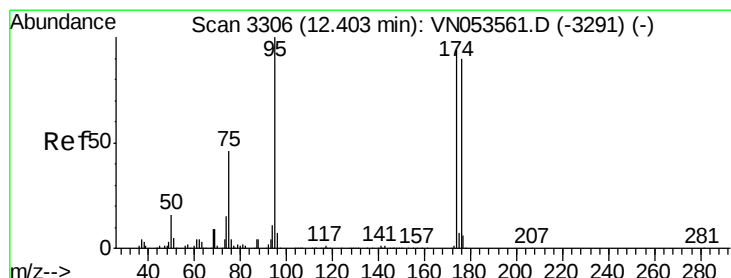
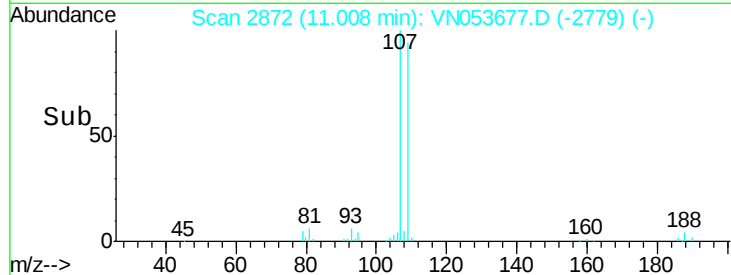
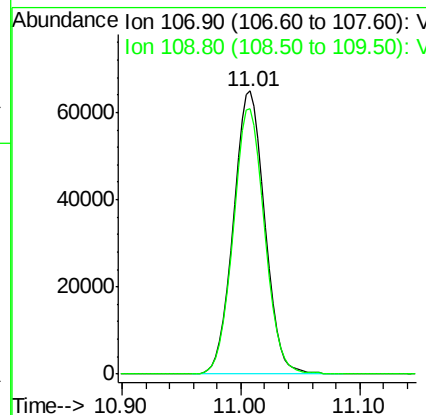
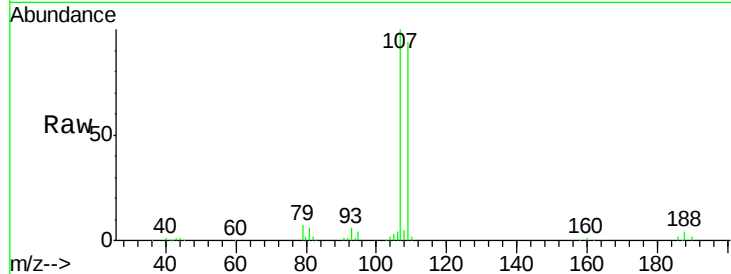
#61
 1,2-Dibromoethane
 Concen: 20.085 ug/l
 RT: 11.01 min Scan# 2872
 Delta R.T. 0.00 min
 Lab File: VN053677.D
 Acq: 8 Feb 2019 13:17

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0208WBS01

Tot Ion	Ratio	Lower	Upper
107	100		
109	94.2	75.7	113.5

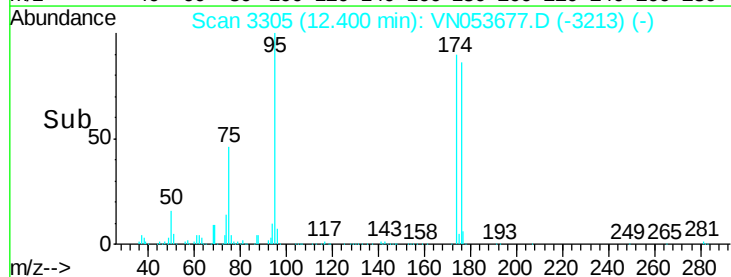
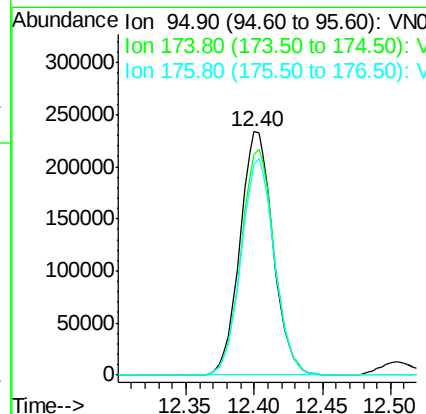
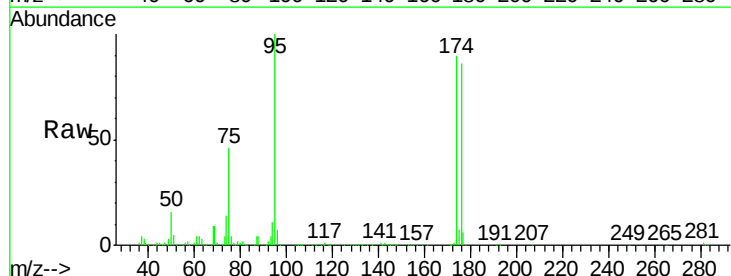
Manual Integrations
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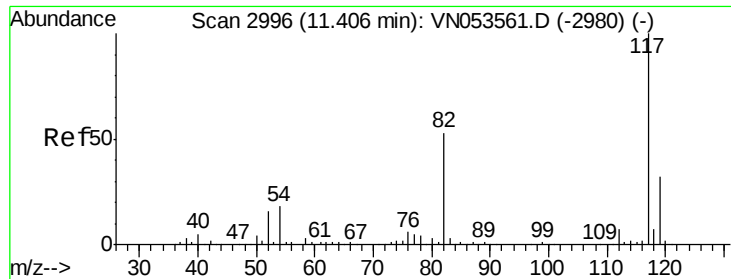
MMDadoda
 2/11/2019 9:50:21 AM



#62
 4-Bromofluorobenzene
 Concen: 49.783 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.00 min
 Lab File: VN053677.D
 Acq: 8 Feb 2019 13:17

Tgt Ion	Ratio	Lower	Upper
95	100		
174	93.0	0.0	183.2
176	89.7	0.0	177.4





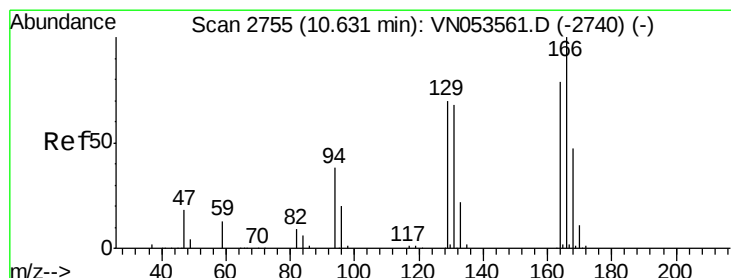
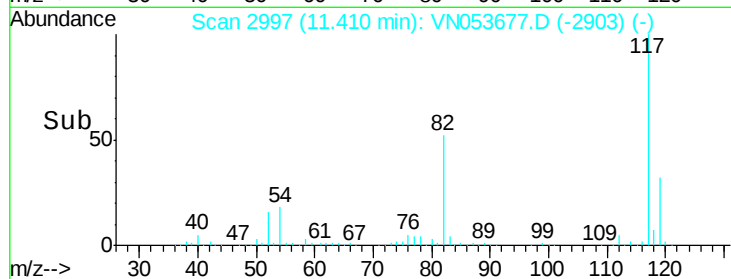
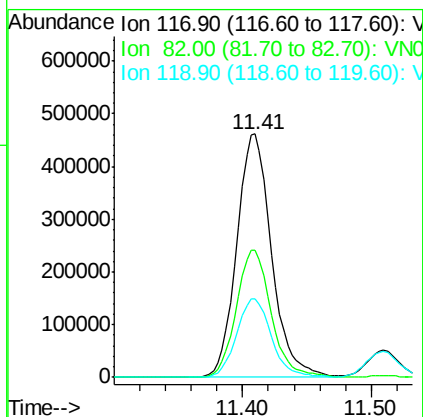
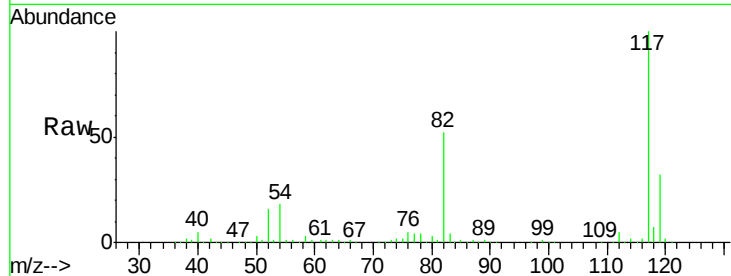
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN053677.D
Acq: 8 Feb 2019 13:17

Instrument :
MSVOA_N
ClientSampleId :
VN0208WBS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.4	42.9	64.3
119	32.4	26.0	39.0

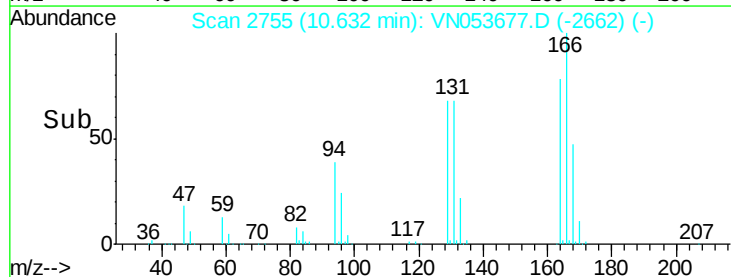
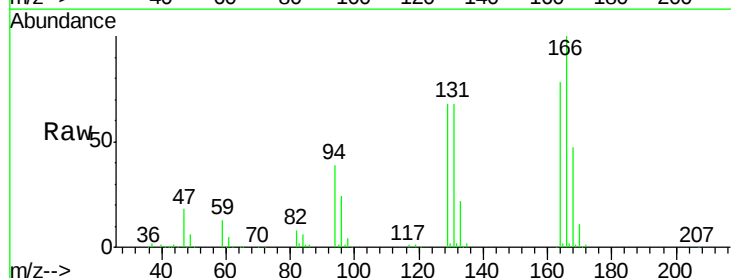
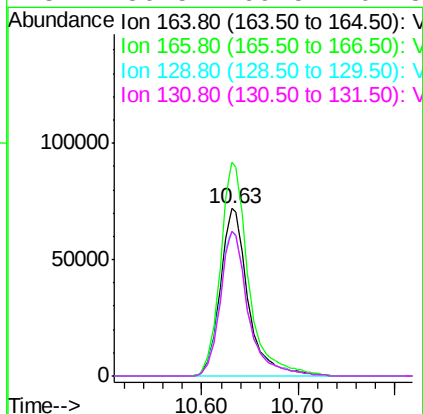
Manual Integrations
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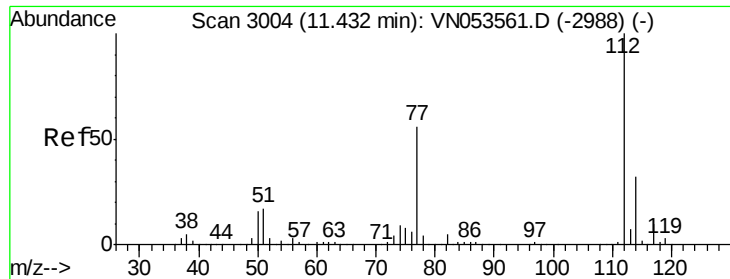
MMDadoda
2/11/2019 9:50:21 AM



#64
Tetrachloroethene
Concen: 19.301 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN053677.D
Acq: 8 Feb 2019 13:17

Tgt Ion	Ratio	Lower	Upper
164	100		
166	127.8	102.2	153.4
129	86.5	72.6	109.0
131	86.5	69.5	104.3





#65

Chlorobenzene

Concen: 19.718 ug/l

RT: 11.44 min Scan# 3005

Delta R.T. 0.00 min

Lab File: VN053677.D

Acq: 8 Feb 2019 13:17

Instrument :

MSVOA_N

ClientSampleId :

VN0208WBS01

Tot Ion:112 Resp: 363386

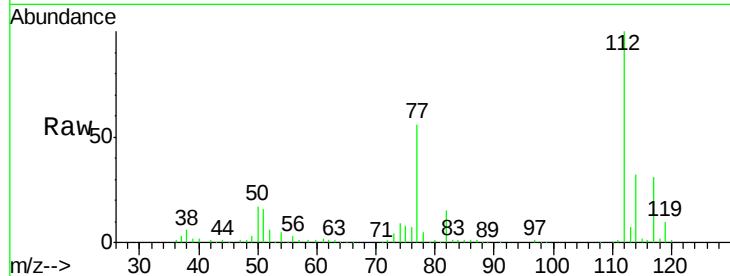
Ion Ratio Lower Upper

112 100

114 31.7 25.3 37.9

Manual Integrations
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2/11/2019 9:50:21 AM



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V

11.44

200000

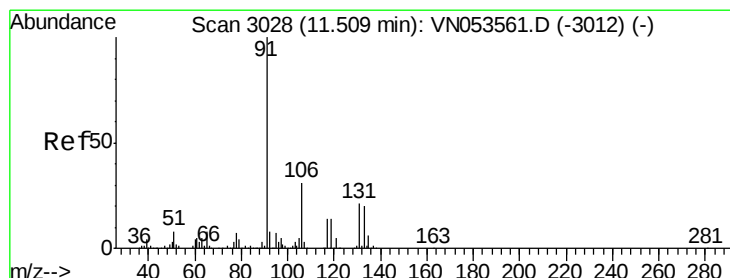
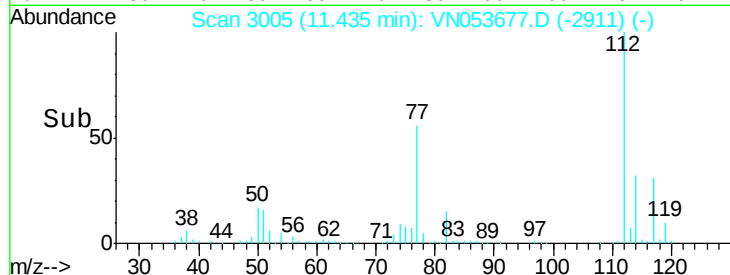
150000

100000

50000

0

Time-->



#66

1,1,1,2-Tetrachloroethane

Concen: 20.817 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN053677.D

Acq: 8 Feb 2019 13:17

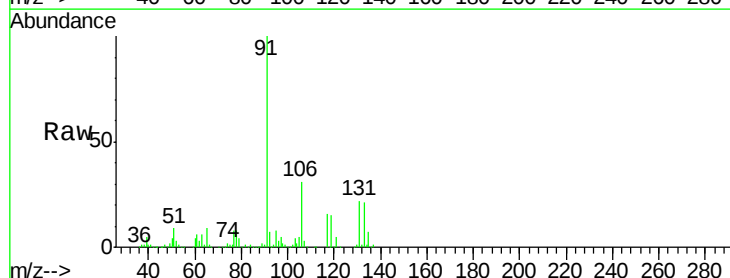
Tgt Ion:131 Resp: 133978

Ion Ratio Lower Upper

131 100

133 96.3 48.0 144.0

119 66.1 33.5 100.5



Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V

200000

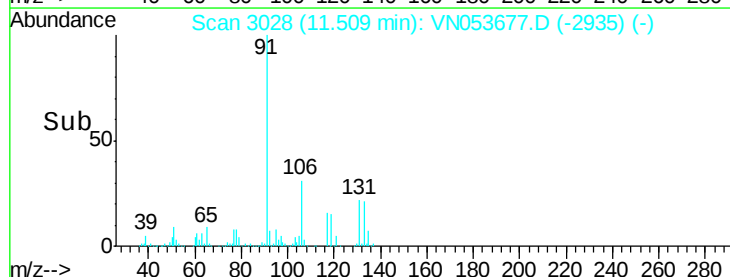
150000

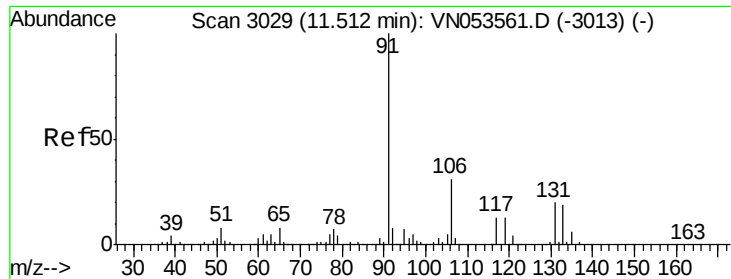
100000

50000

0

Time-->





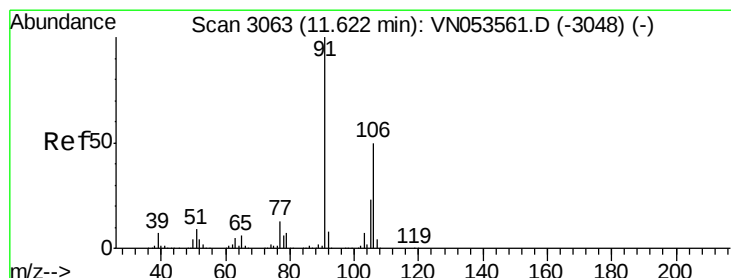
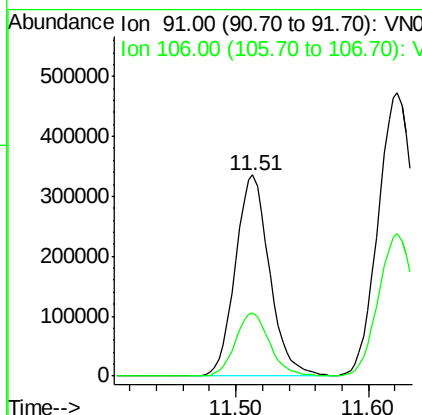
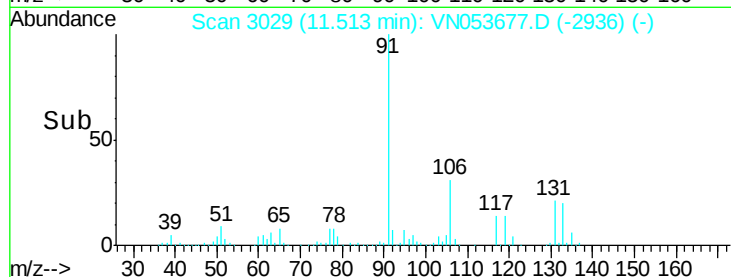
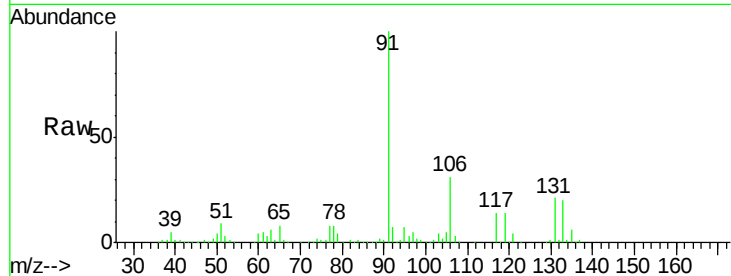
#67
Ethyl Benzene
Concen: 19.890 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. 0.00 min
Lab File: VN053677.D
Acq: 8 Feb 2019 13:17

Instrument :
MSVOA_N
ClientSampled :
VN0208WBS01

Tot Ion: 91 Resp: 602121
Ion Ratio Lower Upper
91 100
106 31.1 25.0 37.6

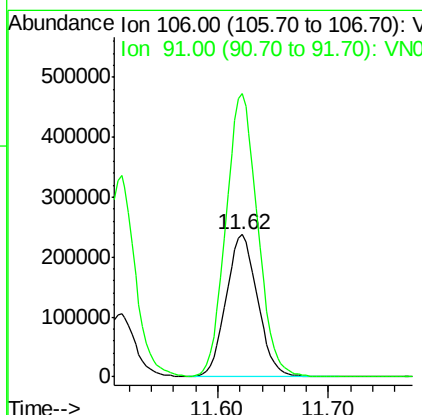
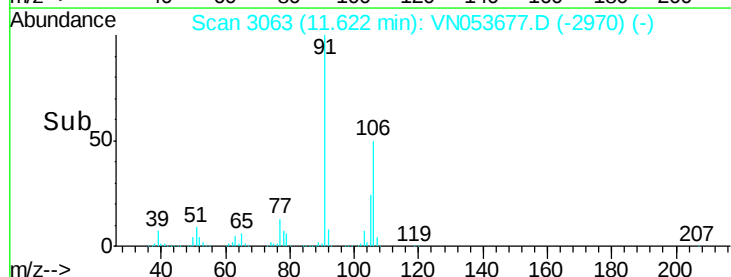
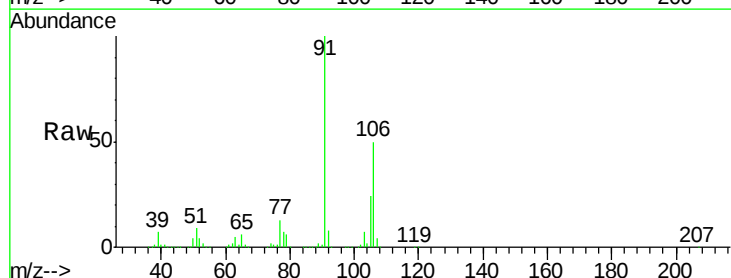
Manual Integrations
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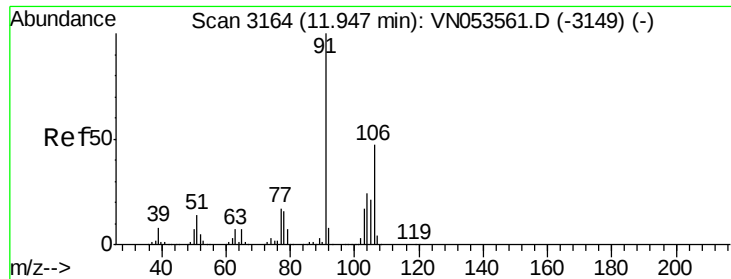
MMDadoda
2/11/2019 9:50:21 AM



#68
m/p-Xylenes
Concen: 40.666 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN053677.D
Acq: 8 Feb 2019 13:17

Tgt Ion: 106 Resp: 469857
Ion Ratio Lower Upper
106 100
91 200.4 161.4 242.2





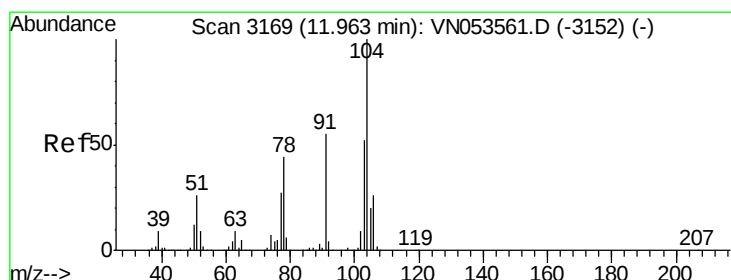
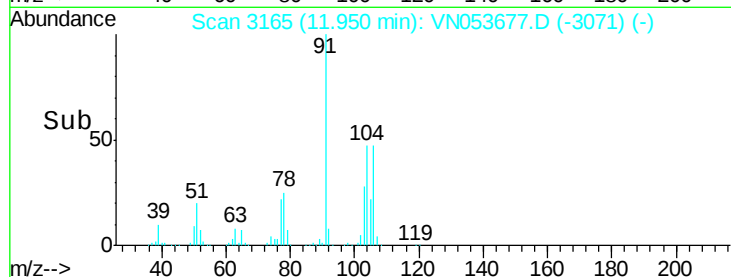
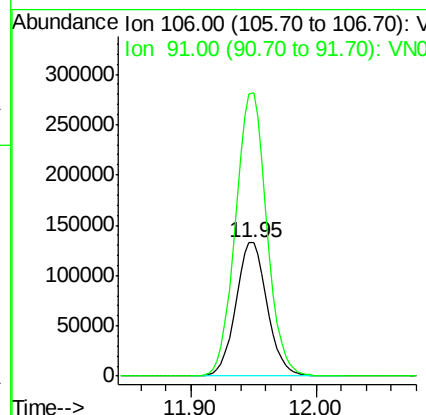
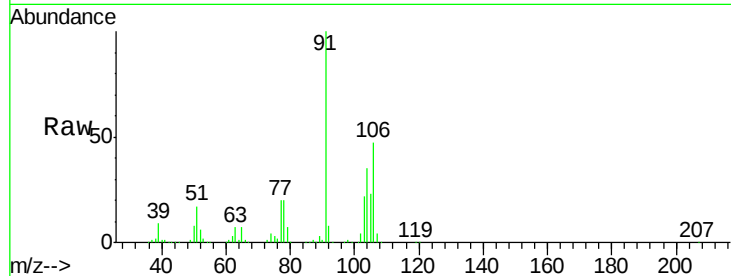
#69
o-Xylene
Concen: 20.590 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. 0.00 min
Lab File: VN053677.D
Acq: 8 Feb 2019 13:17

Instrument :
MSVOA_N
ClientSampleId :
VN0208WBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	106	100	229834		
91	91	211.6	106.9	320.8	

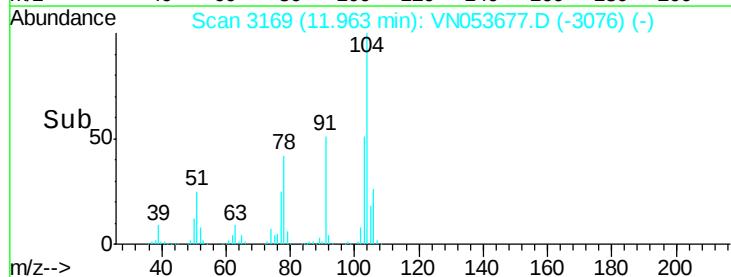
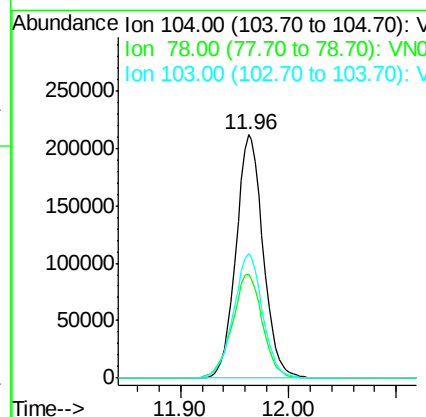
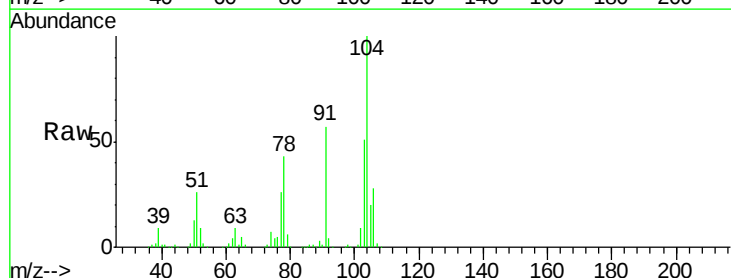
Manual Integrations
APPROVED

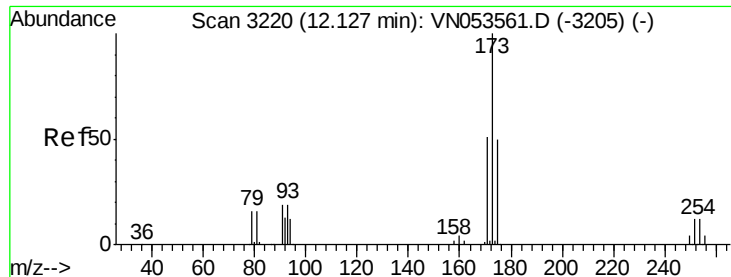
MMDadoda
2/11/2019 9:50:21 AM



#70
Styrene
Concen: 20.528 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN053677.D
Acq: 8 Feb 2019 13:17

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	104	100	371392		
78	78	47.3	38.2	57.2	
103	103	55.0	44.4	66.6	





#71

Bromoform

Concen: 21.667 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN053677.D

Acq: 8 Feb 2019 13:17

Instrument :

MSVOA_N

ClientSampleId :

VN0208WBS01

Tot Ion:173 Resp: 95602

Ion Ratio Lower Upper

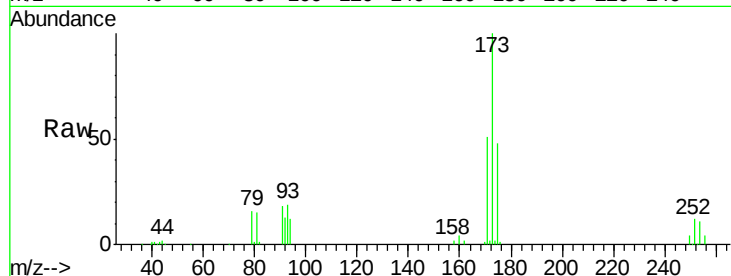
173 100

175 48.2 24.6 74.0

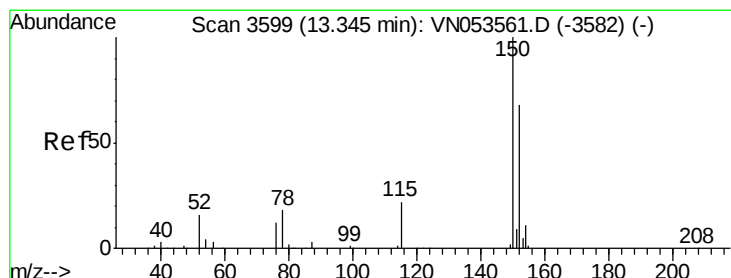
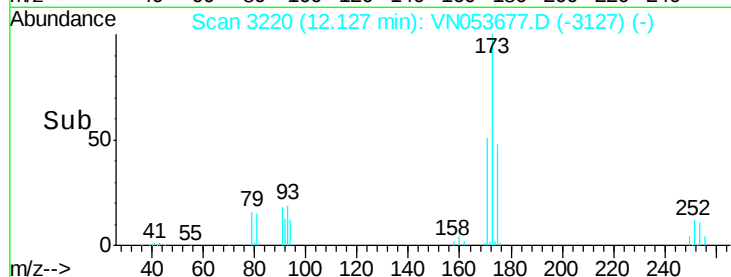
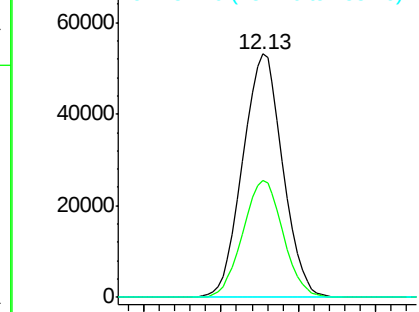
254 0.0 0.2 0.2#

Manual Integrations
APPROVED

MMDadoda
2/11/2019 9:50:21 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: VN053677.D

Acq: 8 Feb 2019 13:17

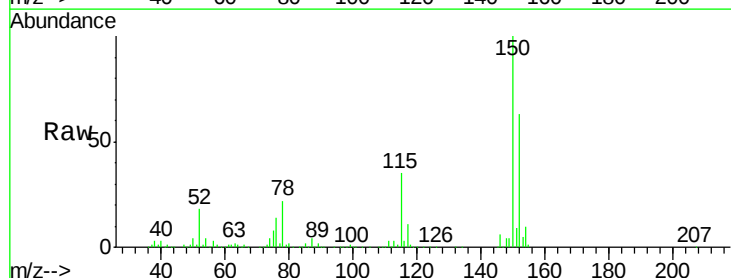
Tgt Ion:152 Resp: 411298

Ion Ratio Lower Upper

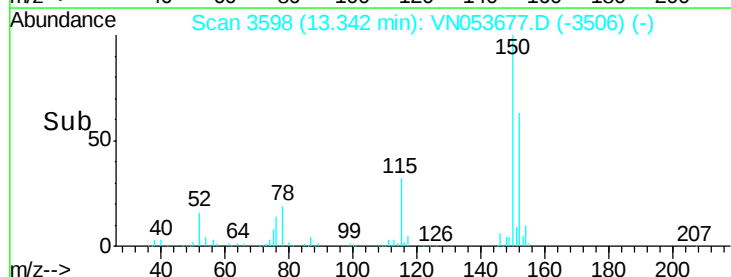
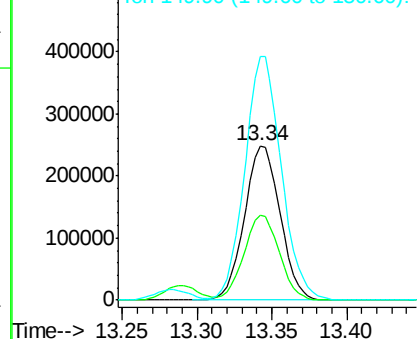
152 100

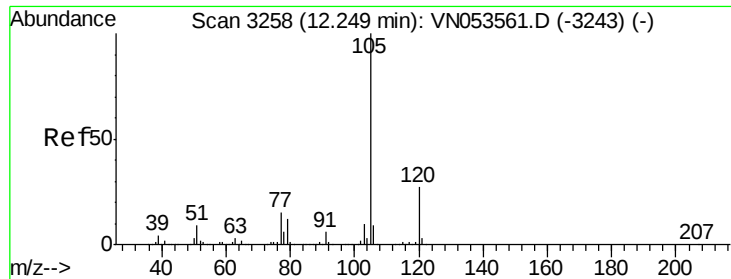
115 54.8 27.8 83.4

150 162.6 0.0 349.0



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





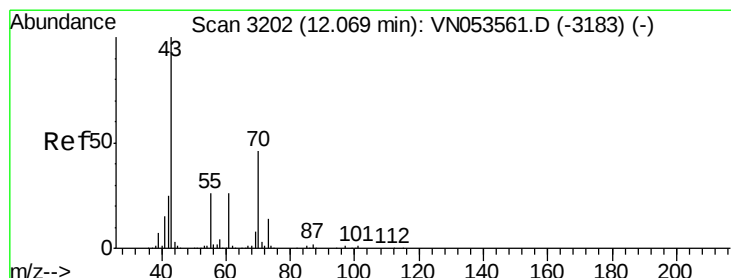
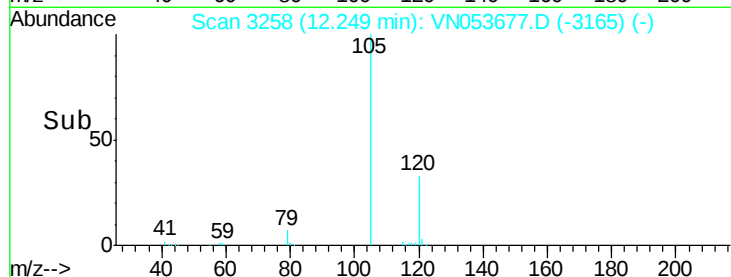
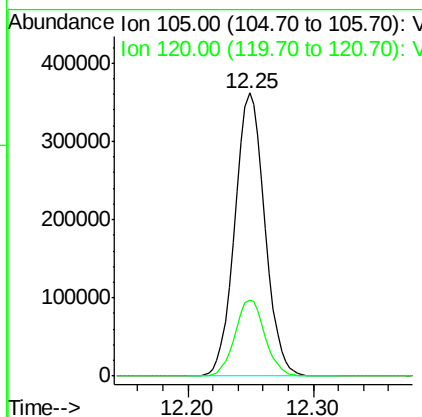
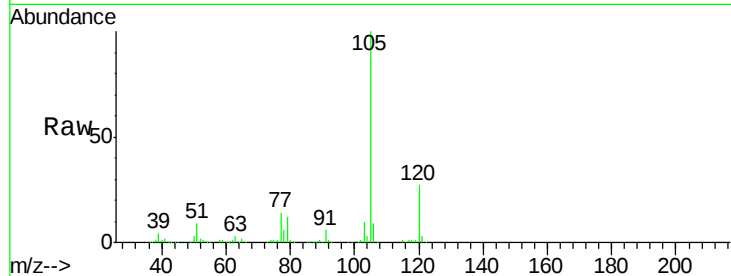
#73
Isopropylbenzene
Concen: 20.759 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. 0.00 min
Lab File: VN053677.D
Acq: 8 Feb 2019 13:17

Instrument :
MSVOA_N
ClientSampleId :
VN0208WBS01

Tot Ion	Ratio	Lower	Upper
105	100		
120	26.9	13.6	40.7

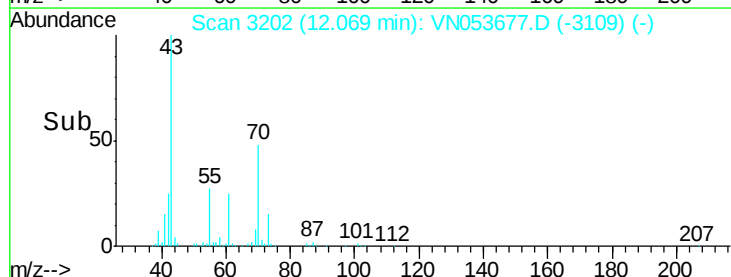
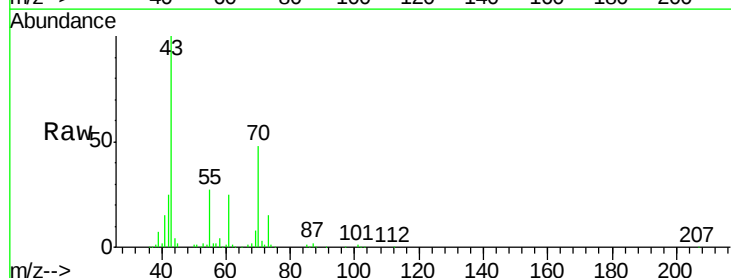
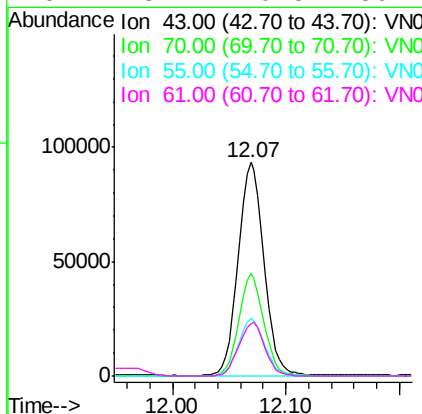
Manual Integrations
APPROVED

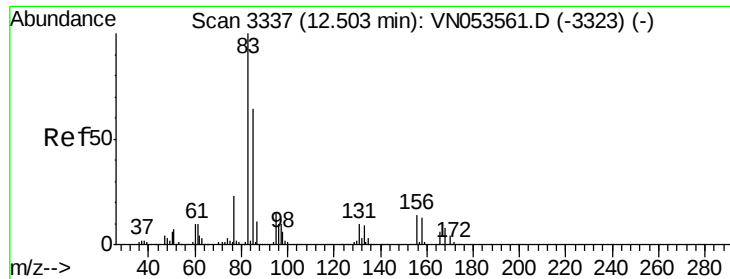
MMDadoda
2/11/2019 9:50:21 AM



#74
N-ethyl acetate
Concen: 21.332 ug/l
RT: 12.07 min Scan# 3202
Delta R.T. 0.00 min
Lab File: VN053677.D
Acq: 8 Feb 2019 13:17

Tgt Ion	Ratio	Lower	Upper
43	100		
70	46.1	35.4	53.2
55	27.3	20.9	31.3
61	25.2	20.5	30.7





#75

1,1,2,2-Tetrachloroethane

Concen: 21.287 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN053677.D

Acq: 8 Feb 2019 13:17

Instrument :

MSVOA_N

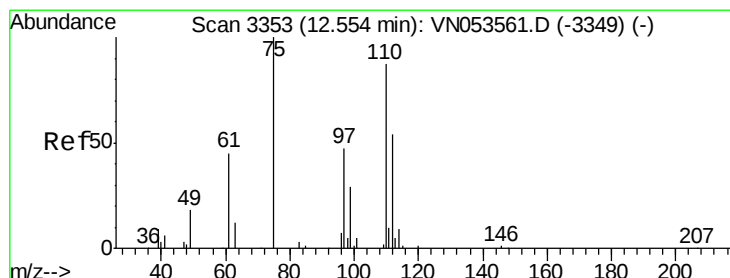
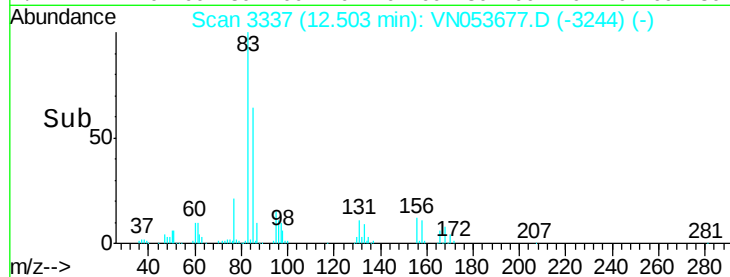
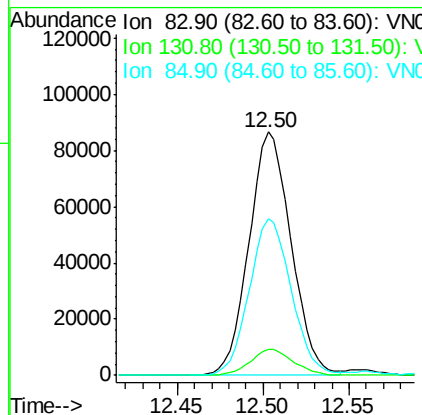
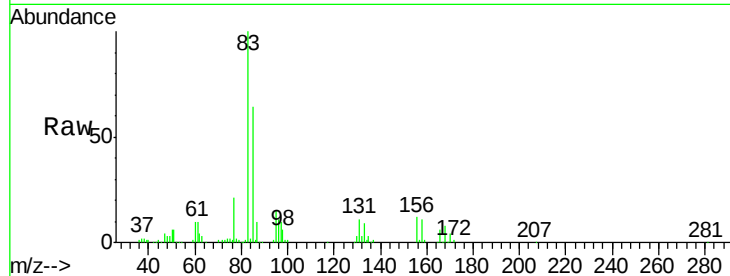
ClientSampleId :

VN0208WBS01

Tot Ion:	83	Resp:	147300
Ion Ratio	Lower	Upper	
83	100		
131	10.7	5.3	15.8
85	64.3	32.1	96.3

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 22.981 ug/l m

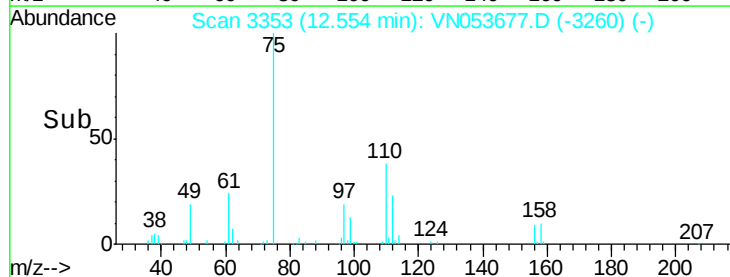
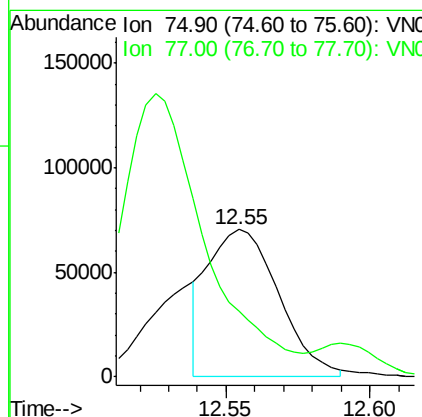
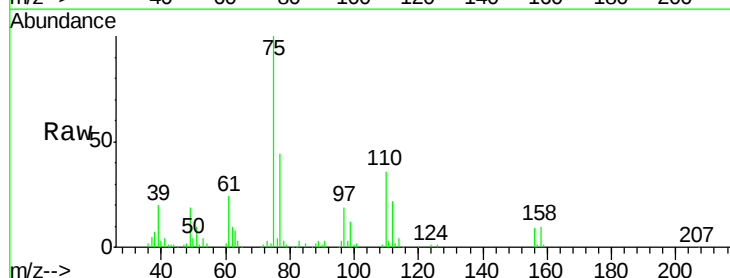
RT: 12.55 min Scan# 3353

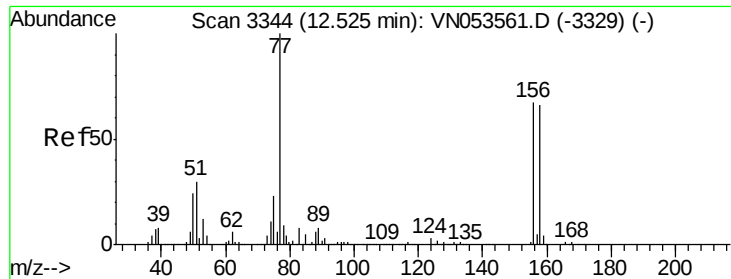
Delta R.T. 0.00 min

Lab File: VN053677.D

Acq: 8 Feb 2019 13:17

Tgt Ion:	75	Resp:	121406
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 20.369 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN053677.D

Acq: 8 Feb 2019 13:17

Instrument :

MSVOA_N

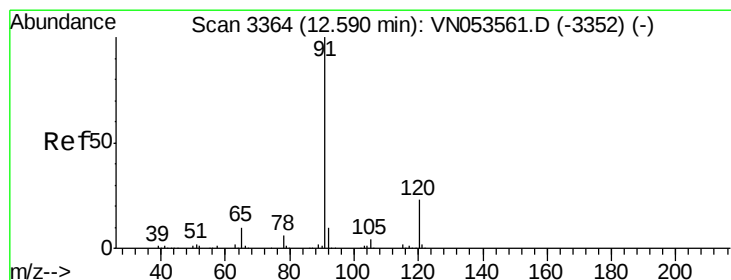
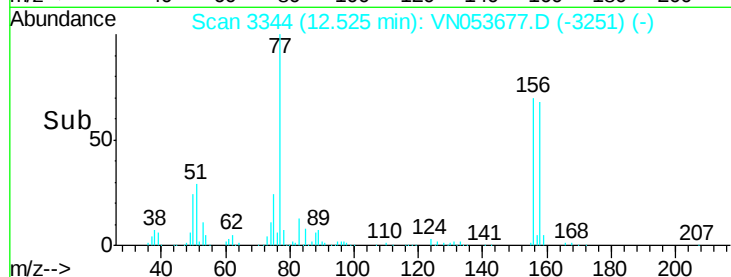
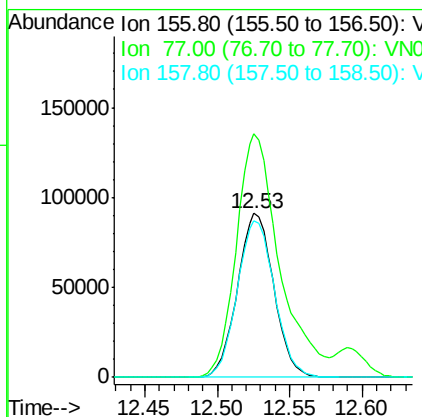
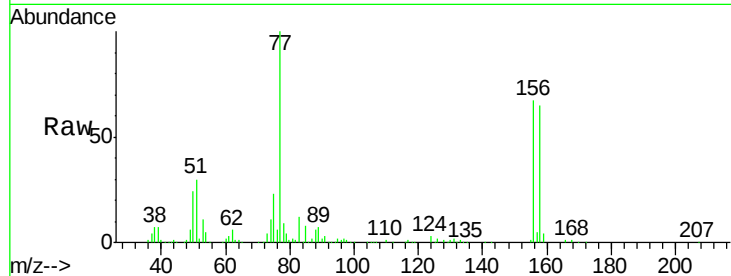
ClientSampleId :

VN0208WBS01

Tot Ion	Ratio	Resp	Lower	Upper
156	100	158722		
77	176.5	87.9	263.8	
158	98.1	48.8	146.4	

Manual Integrations
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2/11/2019 9:50:21 AM



#78

n-propylbenzene

Concen: 20.678 ug/l

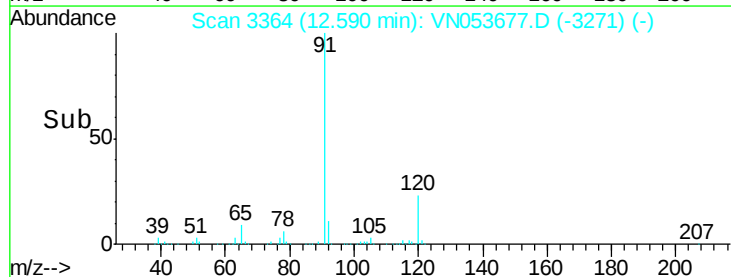
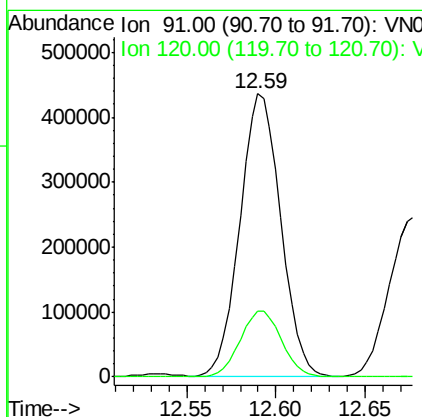
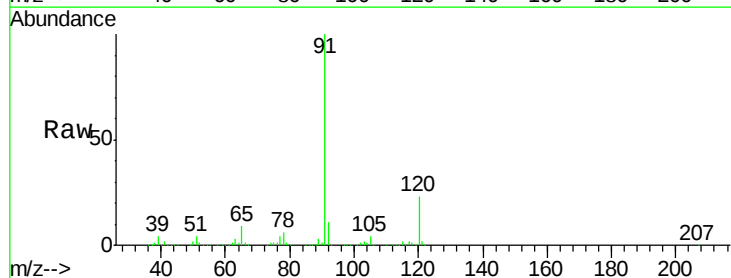
RT: 12.59 min Scan# 3364

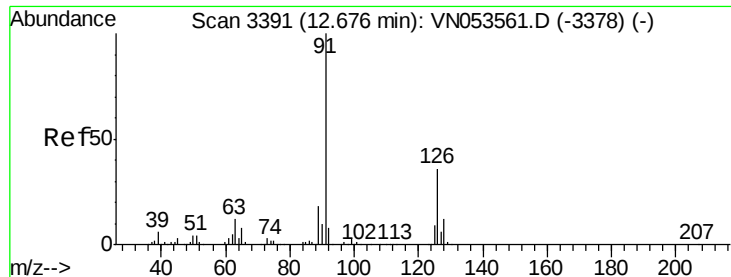
Delta R.T. 0.00 min

Lab File: VN053677.D

Acq: 8 Feb 2019 13:17

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	691165		
120	23.7	11.9	35.5	





#79

2-Chlorotoluene

Concen: 20.654 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN053677.D

Acq: 8 Feb 2019 13:17

Instrument :

MSVOA_N

ClientSampleId :

VN0208WBS01

Tot Ion: 91 Resp: 409575

Ion Ratio Lower Upper

91 100

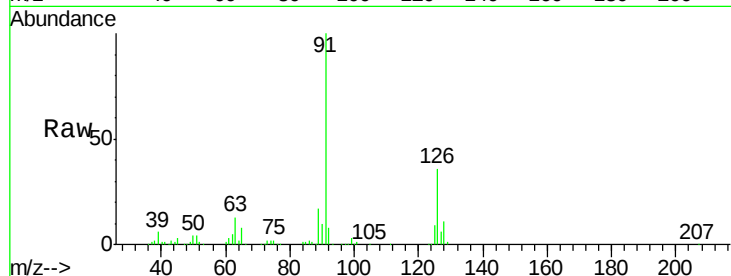
126 35.6 17.9 53.7

Manual Integrations

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Abundance Ion 91.00 (90.70 to 91.70): VN053561.D (-3378) (-)

Ion 125.90 (125.60 to 126.60): VN053561.D (-3378) (-)

400000

300000

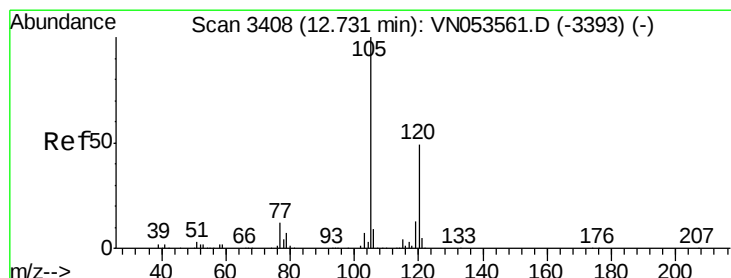
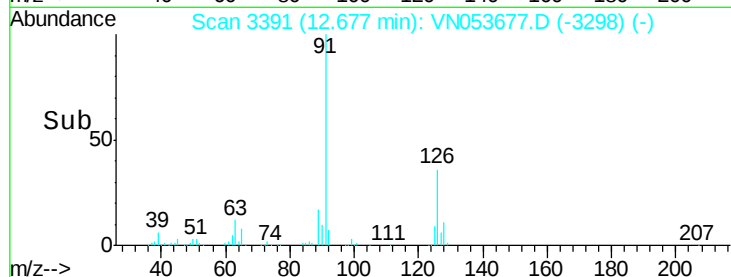
200000

100000

0

12.60 12.65 12.70

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 21.398 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN053677.D

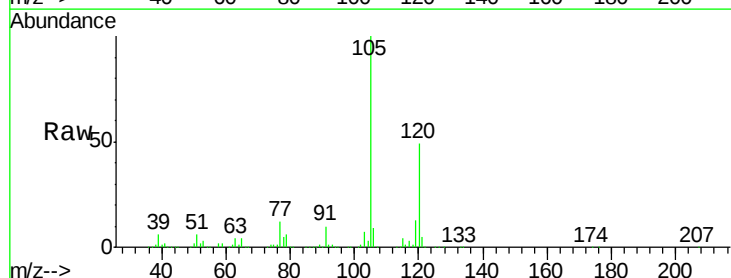
Acq: 8 Feb 2019 13:17

Tgt Ion: 105 Resp: 513054

Ion Ratio Lower Upper

105 100

120 49.6 24.9 74.6



Abundance Ion 105.00 (104.70 to 105.70): VN053561.D (-3393) (-)

Ion 120.00 (119.70 to 120.70): VN053561.D (-3393) (-)

300000

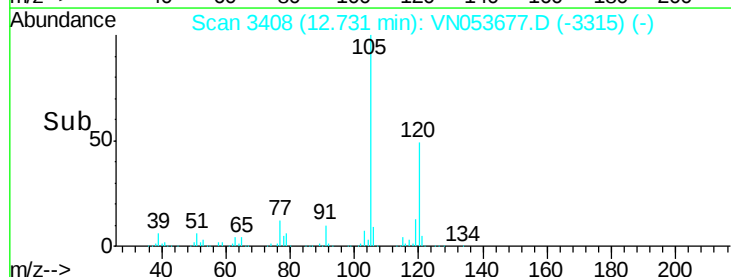
200000

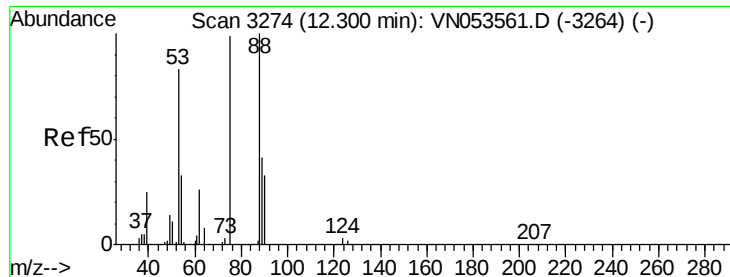
100000

0

12.70 12.80

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 19.707 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN053677.D

Acq: 8 Feb 2019 13:17

Instrument :

MSVOA_N

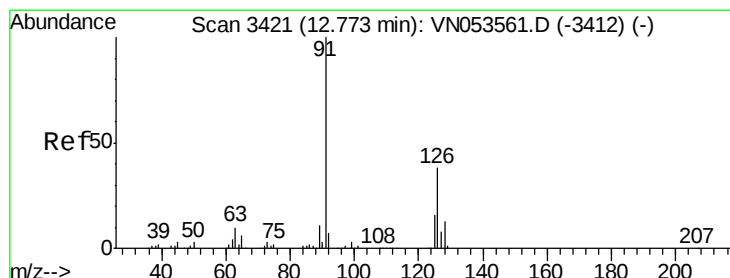
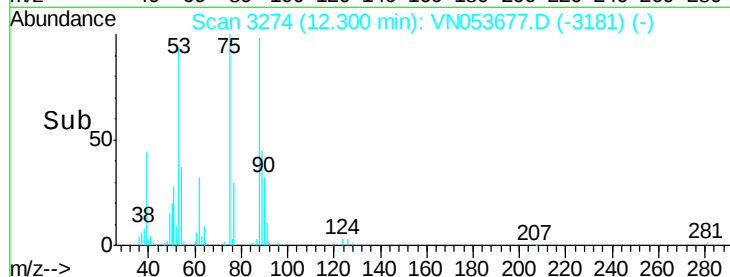
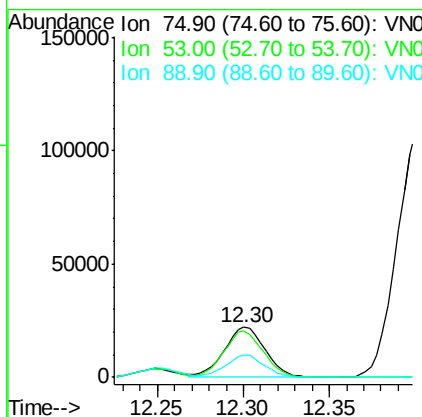
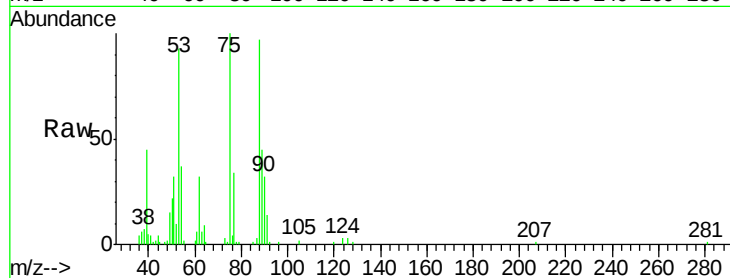
ClientSampleId :

VN0208WBS01

Tot Ion:	75	Resp:	37025
Ion	Ratio	Lower	Upper
75	100		
53	90.2	69.8	104.6
89	42.7	35.6	53.4

Manual Integrations
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#82

4-Chlorotoluene

Concen: 20.103 ug/l

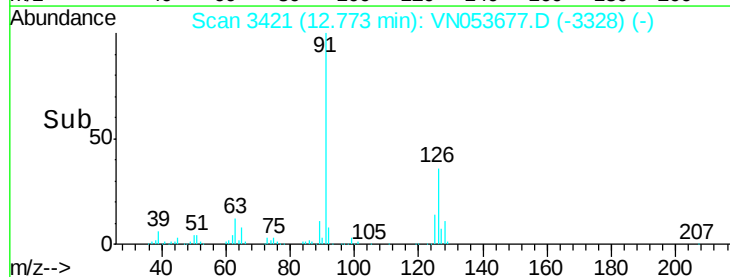
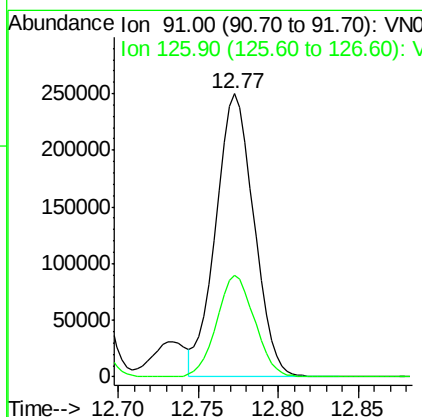
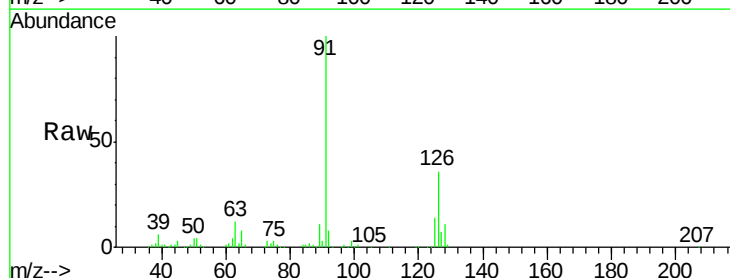
RT: 12.77 min Scan# 3421

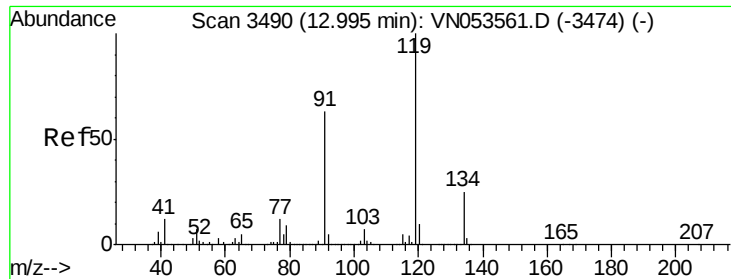
Delta R.T. 0.00 min

Lab File: VN053677.D

Acq: 8 Feb 2019 13:17

Tgt Ion:	91	Resp:	409063
Ion	Ratio	Lower	Upper
91	100		
126	35.7	17.6	52.9





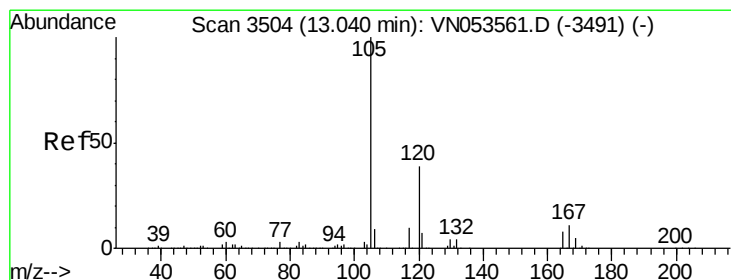
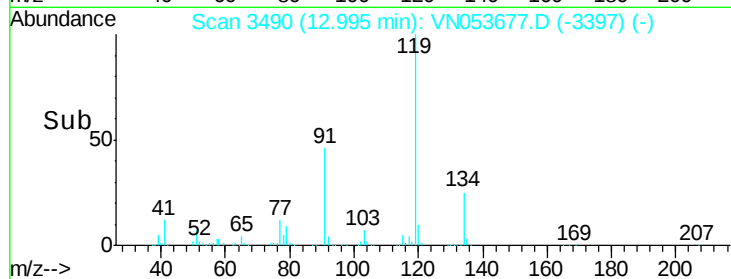
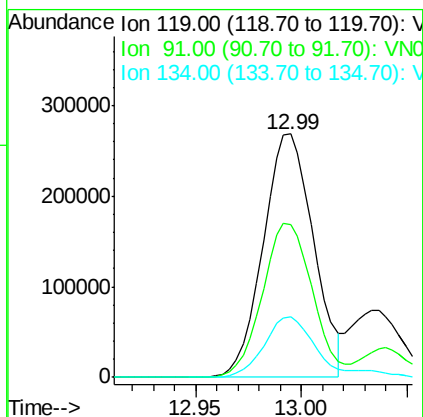
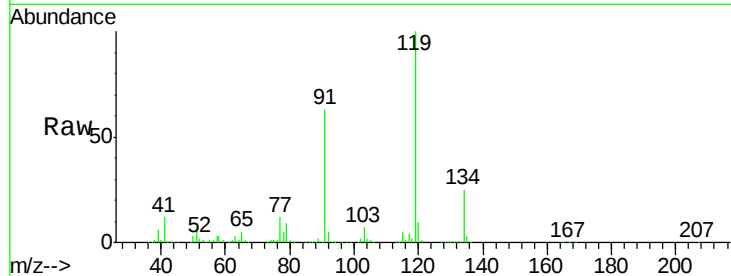
#83
tert-Butylbenzene
Concen: 21.087 ug/l
RT: 12.99 min Scan# 3490
Delta R.T. 0.00 min
Lab File: VN053677.D
Acq: 8 Feb 2019 13:17

Instrument :
MSVOA_N
ClientSampleId :
VN0208WBS01

Tot Ion	Ratio	Lower	Upper
119	100		
91	62.8	31.3	93.8
134	24.7	12.9	38.7

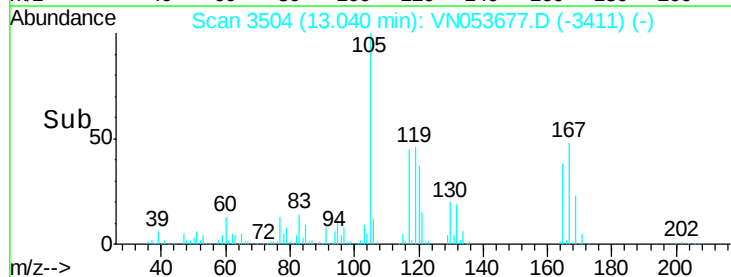
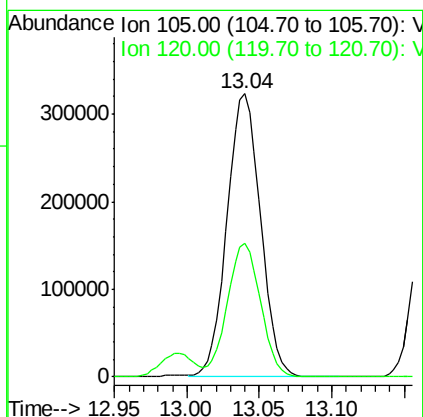
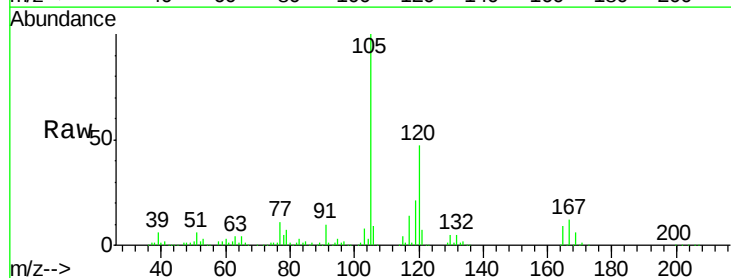
Manual Integrations
APPROVED

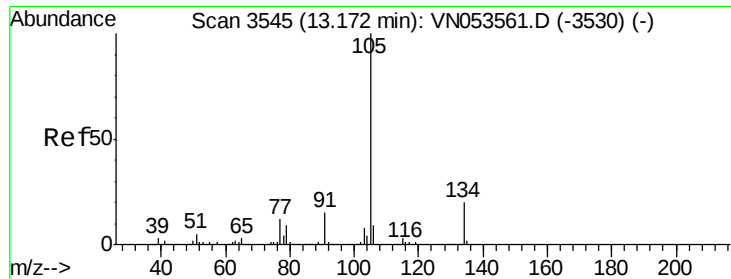
MMDadoda
2/11/2019 9:50:21 AM



#84
1,2,4-Trimethylbenzene
Concen: 21.191 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. 0.00 min
Lab File: VN053677.D
Acq: 8 Feb 2019 13:17

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.8	23.0	69.0





#85

sec-Butylbenzene

Concen: 21.514 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN053677.D

Acq: 8 Feb 2019 13:17

Instrument :

MSVOA_N

ClientSampleId :

VN0208WBS01

Tot Ion:105 Resp: 620405

Ion Ratio Lower Upper

105 100

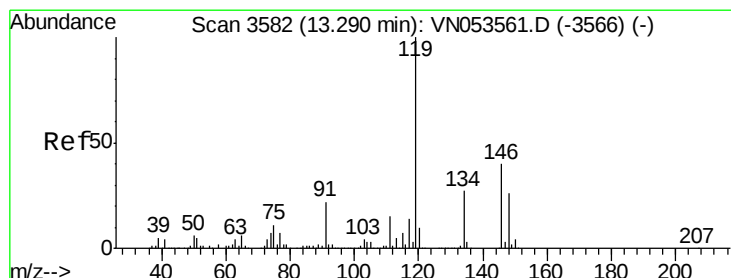
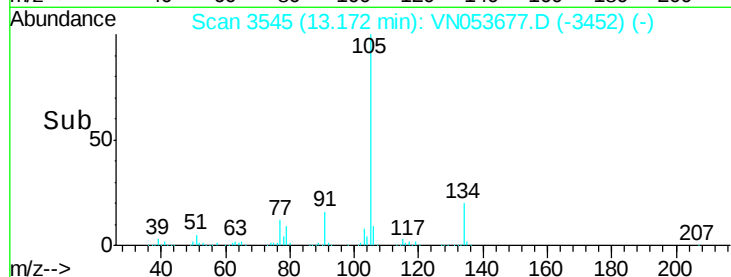
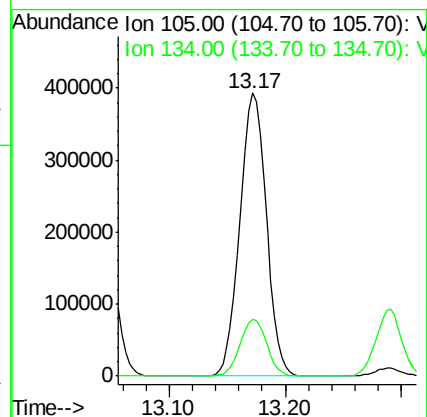
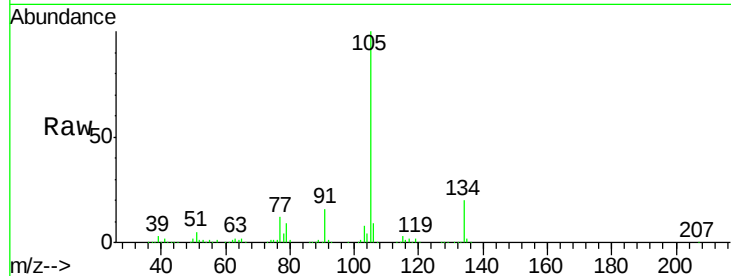
134 20.2 10.2 30.6

Manual Integrations

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#86

p-Isopropyltoluene

Concen: 21.108 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN053677.D

Acq: 8 Feb 2019 13:17

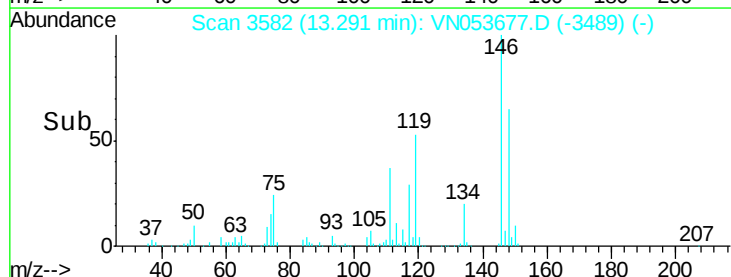
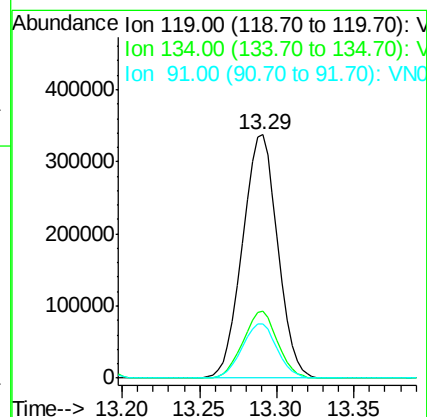
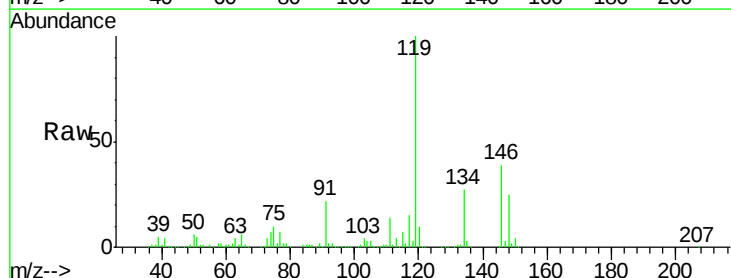
Tgt Ion:119 Resp: 532355

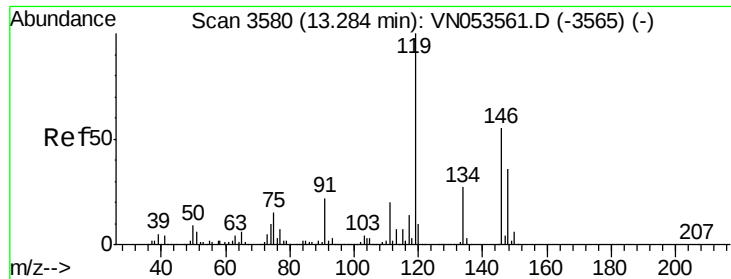
Ion Ratio Lower Upper

119 100

134 27.0 13.5 40.4

91 22.3 11.0 33.0





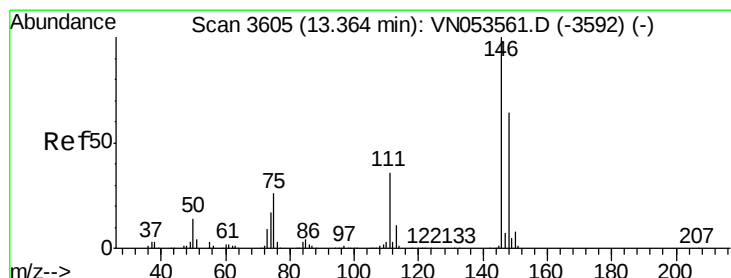
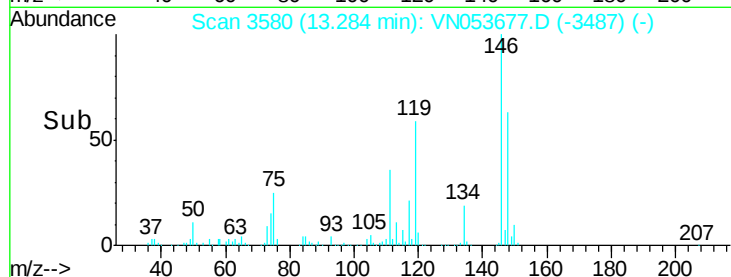
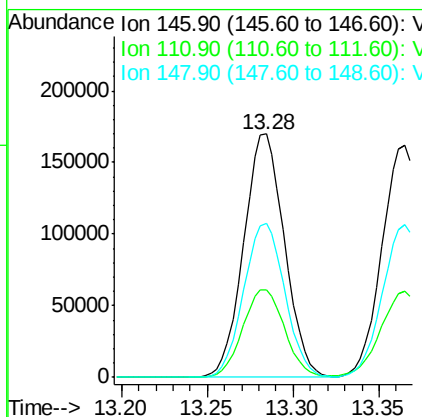
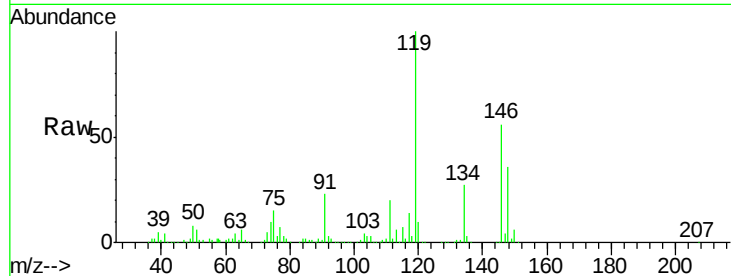
#87
 1,3-Dichlorobenzene
 Concen: 19.951 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN053677.D
 Acq: 8 Feb 2019 13:17

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0208WBS01

Tot Ion	Ratio	Resp	Lower	Upper
146	100	279478		
111	36.9	18.8	56.3	
148	63.8	32.0	96.2	

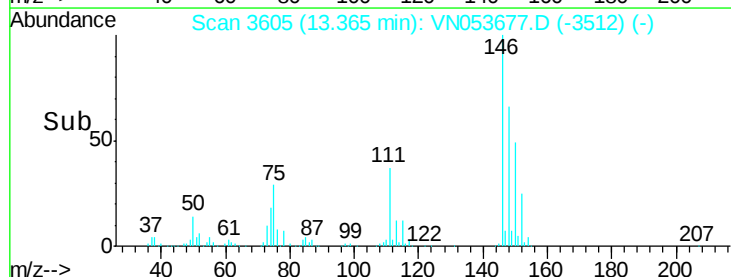
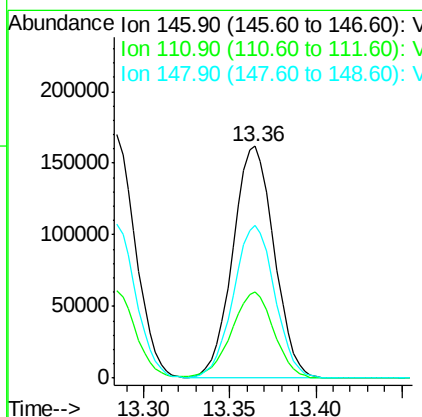
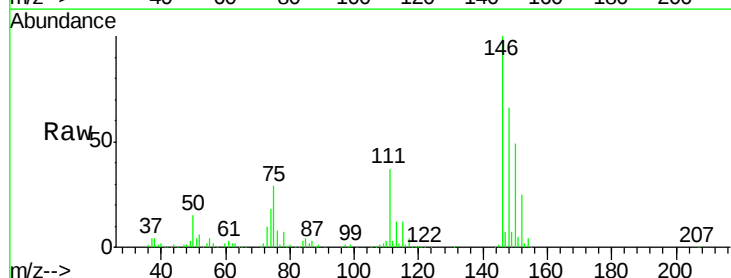
Manual Integrations
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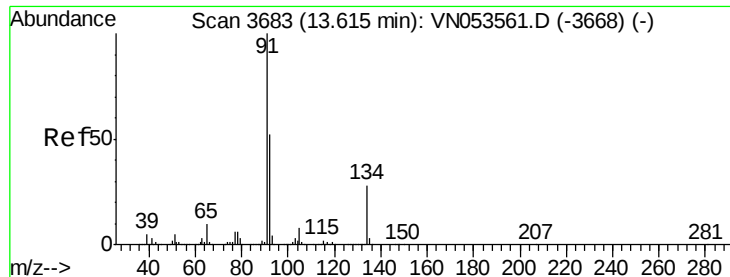
MMDadoda
 2/11/2019 9:50:21 AM



#88
 1,4-Dichlorobenzene
 Concen: 19.586 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN053677.D
 Acq: 8 Feb 2019 13:17

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	271398		
111	38.1	18.6	55.8	
148	66.0	32.4	97.0	





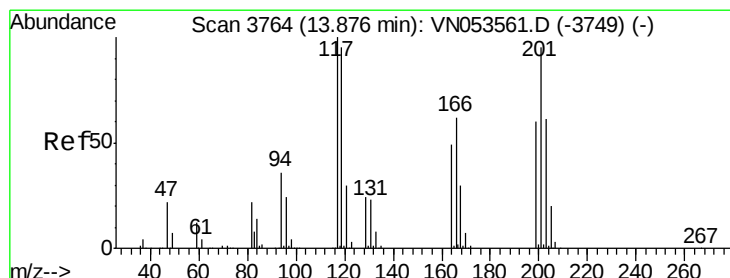
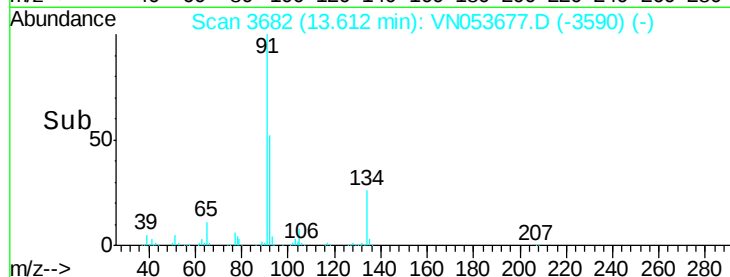
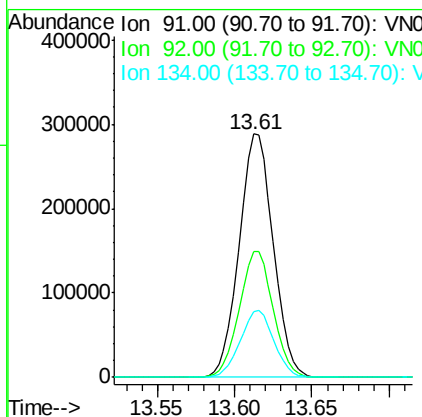
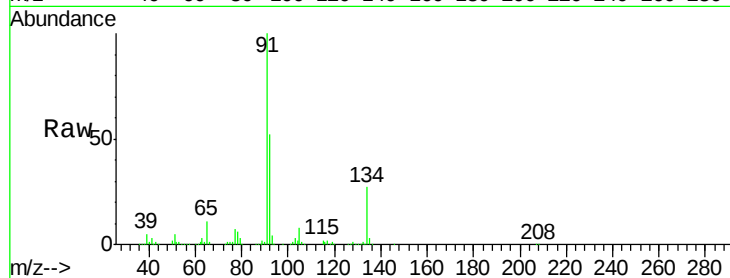
#89
n-Butylbenzene
Concen: 20.215 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. -0.00 min
Lab File: VN053677.D
Acq: 8 Feb 2019 13:17

Instrument :
MSVOA_N
ClientSampleId :
VN0208WBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.5	26.3	78.8
134	27.1	13.5	40.5

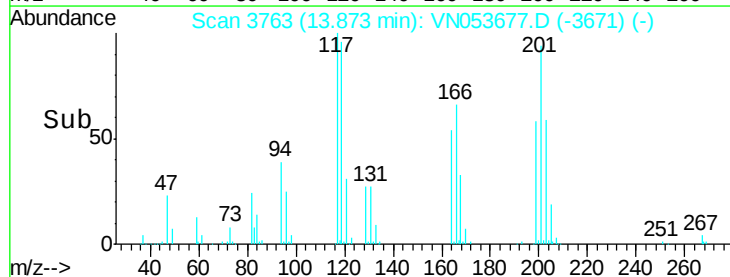
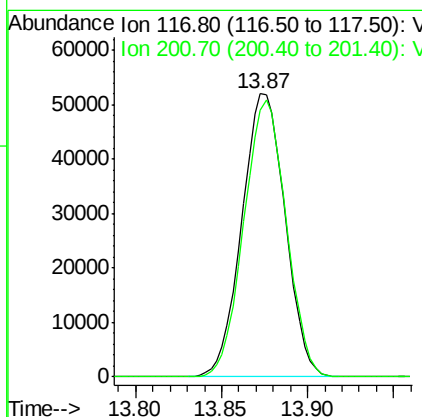
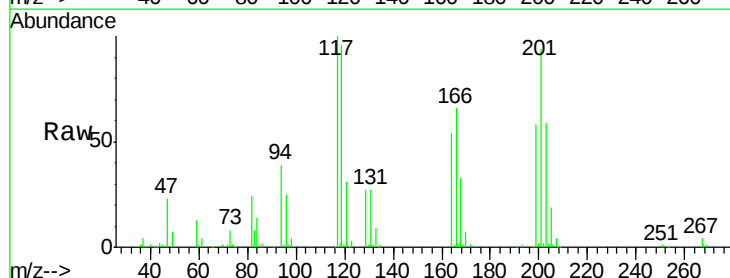
Manual Integrations
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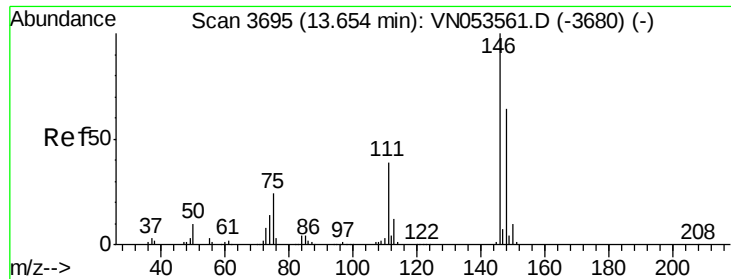
MMDadoda
2/11/2019 9:50:21 AM



#90
Hexachloroethane
Concen: 21.787 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. -0.00 min
Lab File: VN053677.D
Acq: 8 Feb 2019 13:17

Tgt Ion	Ratio	Lower	Upper
117	100		
201	95.7	46.8	140.4





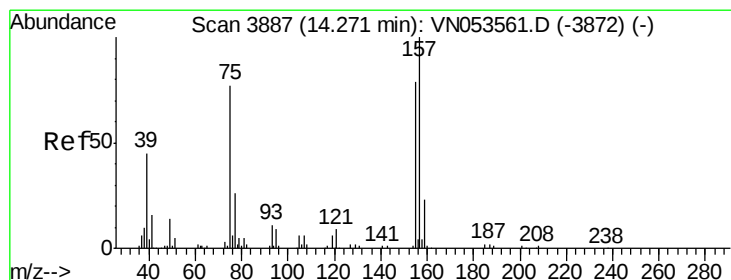
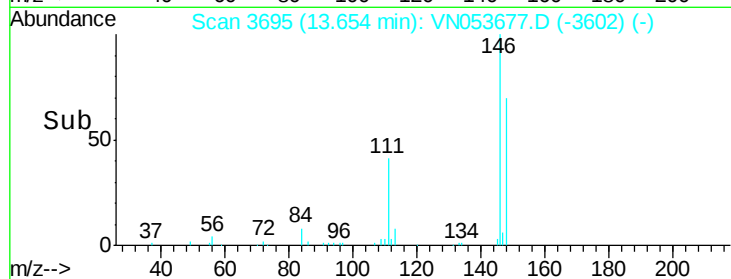
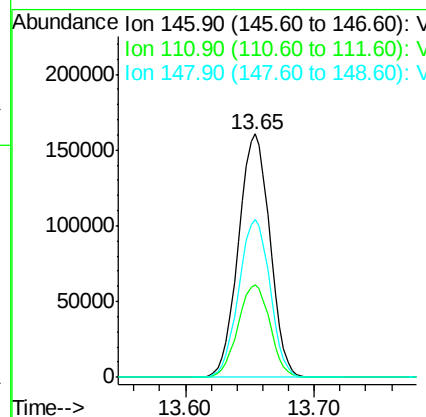
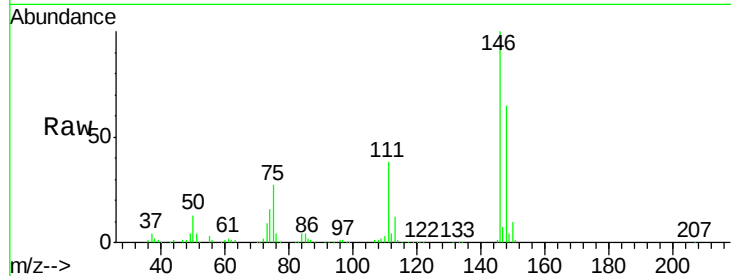
#91
 1,2-Dichlorobenzene
 Concen: 20.321 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN053677.D
 Acq: 8 Feb 2019 13:17

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0208WBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.6	19.5	58.5
148	64.6	31.9	95.9

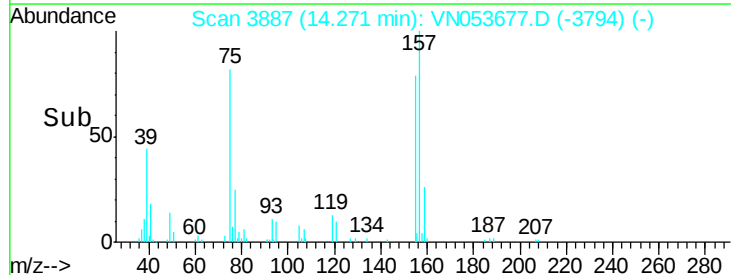
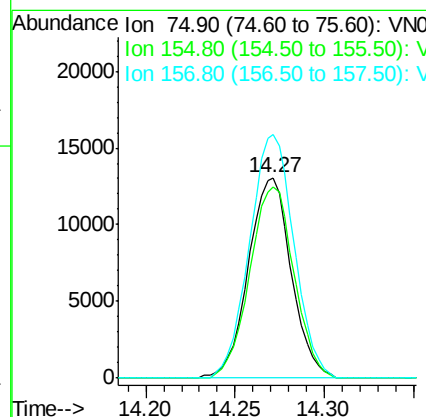
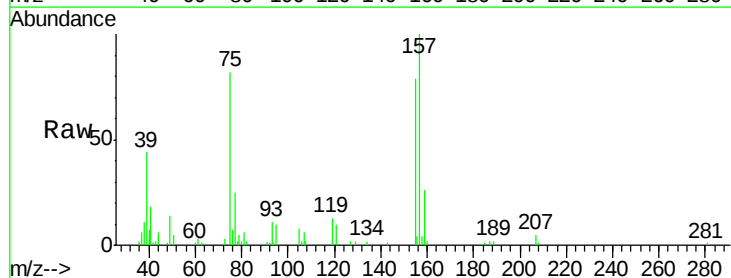
Manual Integrations
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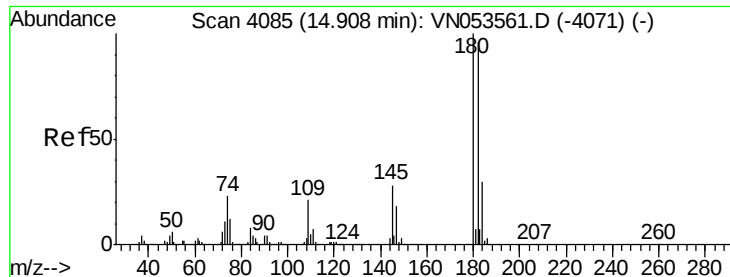
MMDadoda
 2/11/2019 9:50:21 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 22.187 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. 0.00 min
 Lab File: VN053677.D
 Acq: 8 Feb 2019 13:17

Tgt Ion	Ratio	Lower	Upper
75	100		
155	98.6	48.9	146.7
157	126.0	63.7	191.3





#93

1,2,4-Trichlorobenzene

Concen: 18.826 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. 0.00 min

Lab File: VN053677.D

Acq: 8 Feb 2019 13:17

Instrument :

MSVOA_N

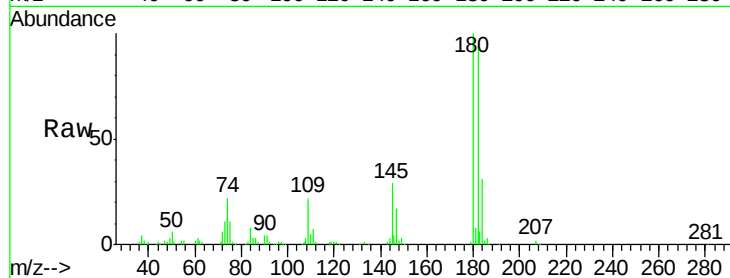
ClientSampleId :

VN0208WBS01

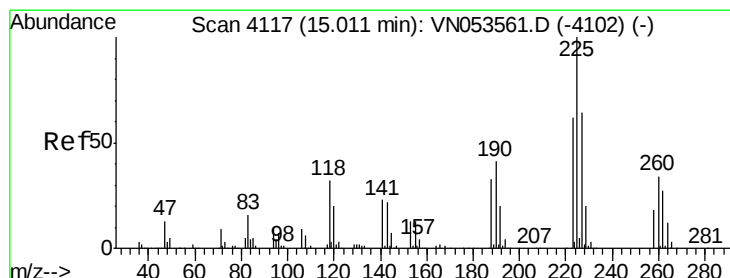
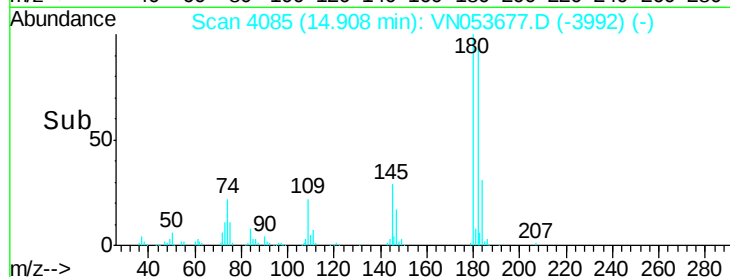
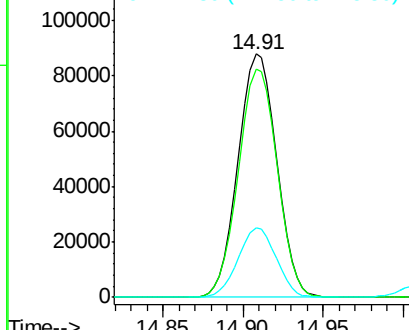
Tot Ion:	180	Resp:	144797
Ion Ratio	Lower	Upper	
180	100		
182	94.3	48.1	144.3
145	28.2	13.9	41.6

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Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.80 (144.50 to 145.50): V



#94

Hexachlorobutadiene

Concen: 21.377 ug/l

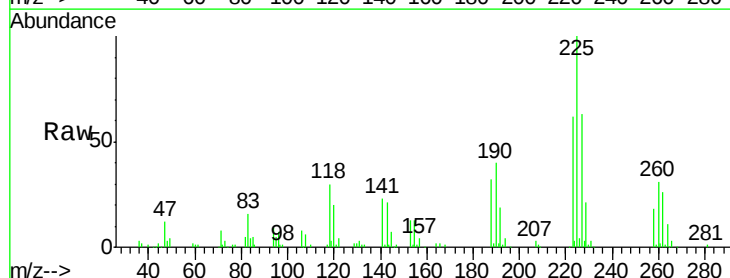
RT: 15.01 min Scan# 4117

Delta R.T. 0.00 min

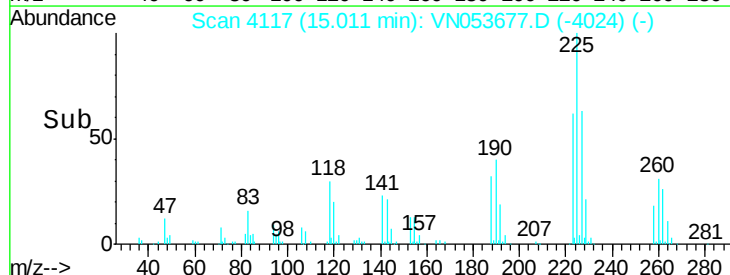
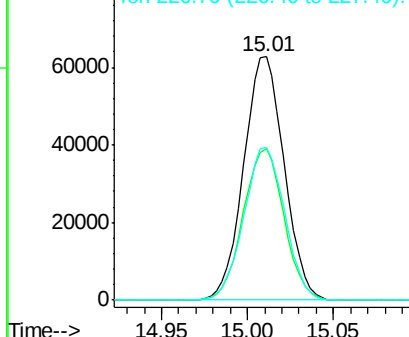
Lab File: VN053677.D

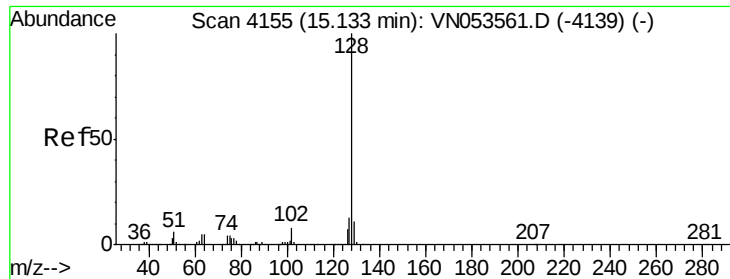
Acq: 8 Feb 2019 13:17

Tgt Ion:	225	Resp:	102393
Ion Ratio	Lower	Upper	
225	100		
223	62.5	31.1	93.2
227	63.4	32.0	96.2



Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V





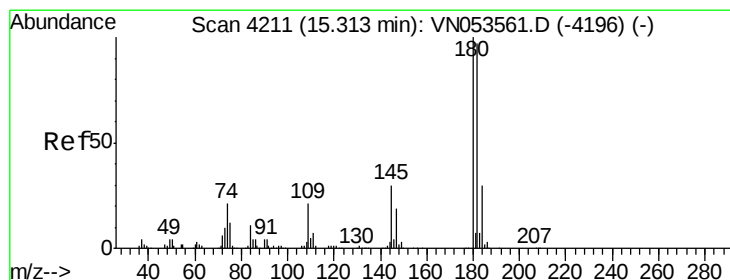
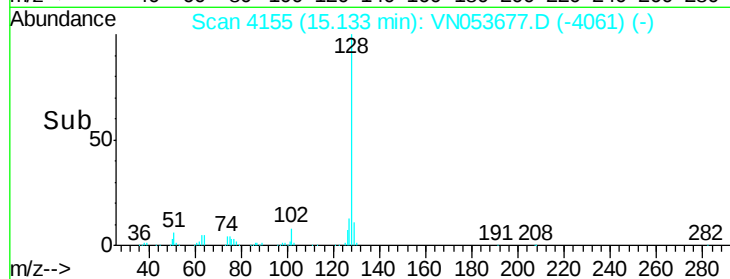
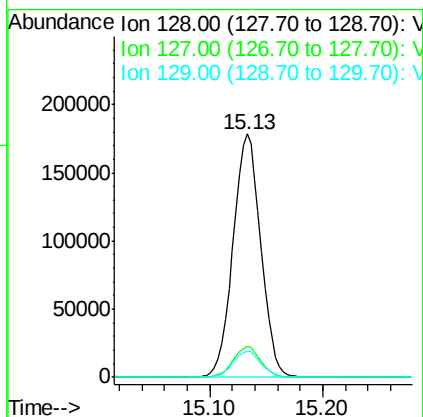
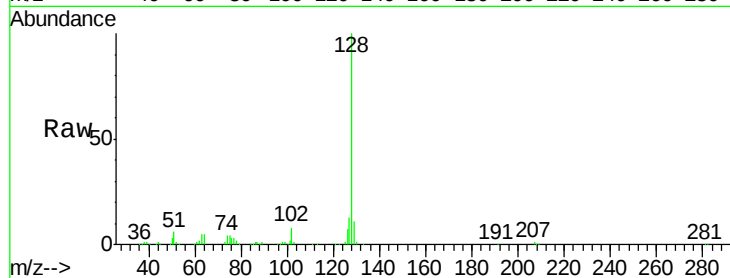
#95
Naphthalene
Concen: 17.969 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN053677.D
Acq: 8 Feb 2019 13:17

Instrument :
MSVOA_N
ClientSampleId :
VN0208WBS01

Tot Ion	Ratio	Resp	Lower	Upper
128	100	303844		
127	12.7	10.3	15.5	
129	10.9	8.6	13.0	

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2/11/2019 9:50:21 AM



#96
1,2,3-Trichlorobenzene
Concen: 19.708 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. 0.00 min
Lab File: VN053677.D
Acq: 8 Feb 2019 13:17

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	140646		
182	96.1	47.9	143.8	
145	29.6	14.7	44.1	

