

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN021119\
 Data File : VN053696.D
 Acq On : 11 Feb 2019 11:25
 Operator : JC/SP
 Sample : VN0211WBS01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0211WBS01

Manual Integrations
 APPROVED

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 2/12/2019 12:50:23 PM

Quant Time: Feb 11 22:25:35 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	7.66	168	690439	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	1029663	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	881589	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	419887	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	337677	48.75	ug/l	0.00
Spiked Amount						
			Recovery	=	97.50%	
35) Dibromofluoromethane	7.59	113	325281	50.00	ug/l	0.00
Spiked Amount						
			Recovery	=	100.00%	
50) Toluene-d8	10.09	98	1201020	49.16	ug/l	0.00
Spiked Amount						
			Recovery	=	98.32%	
62) 4-Bromofluorobenzene	12.40	95	387356	47.54	ug/l	0.00
Spiked Amount						
			Recovery	=	95.08%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.85	85	138281	17.983	ug/l	99
3) Chloromethane	2.06	50	141560	17.270	ug/l	100
4) Vinyl Chloride	2.19	62	144659	18.180	ug/l	100
5) Bromomethane	2.57	94	104696	20.123	ug/l	100
6) Chloroethane	2.71	64	89966	19.785	ug/l	96
7) Trichlorofluoromethane	3.02	101	204377	18.941	ug/l	97
8) Diethyl Ether	3.41	74	71836	18.229	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.76	101	127130	19.050	ug/l	98
10) Methyl Iodide	3.95	142	177977	16.992	ug/l	99
11) Tert butyl alcohol	4.78	59	39771	97.021	ug/l	99
12) 1,1-Dichloroethene	3.74	96	118778	18.578	ug/l	98
13) Acrolein	3.61	56	11143	49.927	ug/l	91
14) Allyl chloride	4.32	41	185777	18.249	ug/l	99
15) Acrylonitrile	4.99	53	208916	94.405	ug/l	99
16) Acetone	3.82	43	172593	97.145	ug/l	99
17) Carbon Disulfide	4.05	76	333042	16.729	ug/l	100
18) Methyl Acetate	4.32	43	104531	19.867	ug/l	99
19) Methyl tert-butyl Ether	5.04	73	305440	18.845	ug/l	98
20) Methylene Chloride	4.55	84	135645	18.198	ug/l	97
21) trans-1,2-Dichloroethene	5.04	96	126608	18.355	ug/l	96
22) Diisopropyl ether	5.95	45	353722	18.752	ug/l	96
23) Vinyl Acetate	5.90	43	1169243	89.604	ug/l	99
24) 1,1-Dichloroethane	5.85	63	232060	18.445	ug/l	100
25) 2-Butanone	6.84	43	239107	94.364	ug/l	99
26) 2,2-Dichloropropane	6.82	77	176609	18.389	ug/l	100
27) cis-1,2-Dichloroethene	6.83	96	143798	18.748	ug/l	97
28) Bromochloromethane	7.19	49	105309	19.288	ug/l	96
29) Tetrahydrofuran	7.21	42	150501	92.497	ug/l	98
30) Chloroform	7.37	83	231149	18.534	ug/l	98
31) Cyclohexane	7.65	56	208605	17.699	ug/l	92
32) 1,1,1-Trichloroethane	7.57	97	192561	18.553	ug/l	99
36) 1,1-Dichloropropene	7.79	75	171107	18.435	ug/l	97
37) Ethyl Acetate	6.93	43	90940	17.543	ug/l	96
38) Carbon Tetrachloride	7.77	117	174006	18.610	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	201431	18.292	ug/l	99
40) Benzene	8.04	78	529969	18.516	ug/l	100
41) Methacrylonitrile	7.17	41	52441	18.100	ug/l	91
42) 1,2-Dichloroethane	8.12	62	155827	18.335	ug/l	98
43) Isopropyl Acetate	8.16	43	168848	16.866	ug/l	99
44) Trichloroethene	8.83	130	148819	18.263	ug/l	99
45) 1,2-Dichloropropane	9.12	63	139287	19.026	ug/l	99
46) Dibromomethane	9.21	93	81590	18.488	ug/l	98
47) Bromodichloromethane	9.40	83	174338	19.000	ug/l	98
48) Methyl methacrylate	9.20	41	80633	16.873	ug/l	91
49) 1,4-Dioxane	9.20	88	25408	391.683	ug/l #	94
51) 4-Methyl-2-Pentanone	9.99	43	450204	91.513	ug/l	100
52) Toluene	10.16	92	322048	18.958	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	164821	17.938	ug/l	97
54) cis-1,3-Dichloropropene	9.84	75	203401	18.681	ug/l	97
55) 1,1,2-Trichloroethane	10.56	97	117318	19.166	ug/l	99
56) Ethyl methacrylate	10.43	69	126508	17.470	ug/l	98
57) 1,3-Dichloropropane	10.71	76	195446	18.682	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.70	63	339800	81.248	ug/l	98
59) 2-Hexanone	10.75	43	288128	86.273	ug/l	100
60) Dibromochloromethane	10.90	129	131829	19.098	ug/l	100
61) 1,2-Dibromoethane	11.00	107	110323	18.209	ug/l	99
64) Tetrachloroethene	10.63	164	145591	19.265	ug/l	98
65) Chlorobenzene	11.43	112	350045	18.693	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	127170	19.445	ug/l	100
67) Ethyl Benzene	11.51	91	574685	18.682	ug/l	99
68) m/p-Xylenes	11.62	106	452849	38.572	ug/l	99
69) o-Xylene	11.95	106	219253	19.331	ug/l	98
70) Styrene	11.96	104	349967	19.037	ug/l	100
71) Bromoform	12.13	173	86360	19.262	ug/l #	99
73) Isopropylbenzene	12.25	105	585373	19.831	ug/l	99
74) N-amyl acetate	12.07	43	130025	18.319	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	131905	18.672	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	106738m	19.791	ug/l	
77) Bromobenzene	12.53	156	149422	18.783	ug/l	99
78) n-propylbenzene	12.59	91	675433	19.794	ug/l	100
79) 2-Chlorotoluene	12.67	91	399283	19.723	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	498596	20.370	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	33080	17.247	ug/l	97
82) 4-Chlorotoluene	12.77	91	397495	19.135	ug/l	100
83) tert-Butylbenzene	12.99	119	443168	20.485	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	501574	20.113	ug/l	98
85) sec-Butylbenzene	13.17	105	602698	20.473	ug/l	99
86) p-Isopropyltoluene	13.29	119	529299	20.558	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	267274	18.690	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	267957	18.942	ug/l	99
89) n-Butylbenzene	13.61	91	445030	19.969	ug/l	99
90) Hexachloroethane	13.87	117	87040	20.495	ug/l	96
91) 1,2-Dichlorobenzene	13.65	146	263030	19.212	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	19521	19.389	ug/l	96

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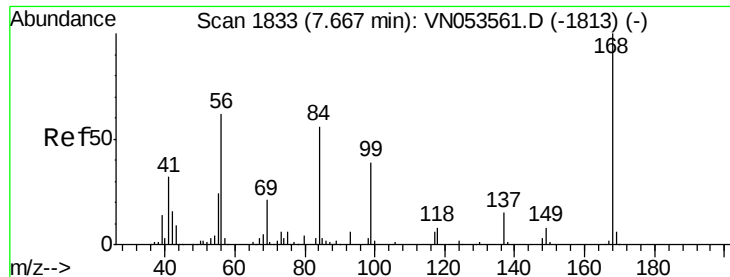
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	143321	18.253	ug/l	99
94) Hexachlorobutadiene	15.01	225	103878	21.243	ug/l	98
95) Naphthalene	15.13	128	270181	15.876	ug/l	100
96) 1,2,3-Trichlorobenzene	15.31	180	135799	18.639	ug/l	100

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN053696.D

Acq: 11 Feb 2019 11:25

Instrument :

MSVOA_N

ClientSampleId :

VN0211WBS01

Tot Ion:168 Resp: 690439

Ion Ratio Lower Upper

168 100

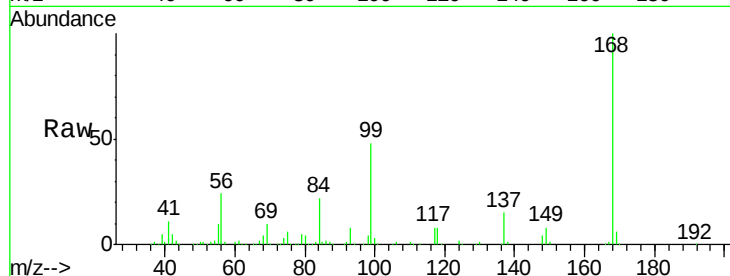
99 47.1 39.1 58.7

Manual Integrations

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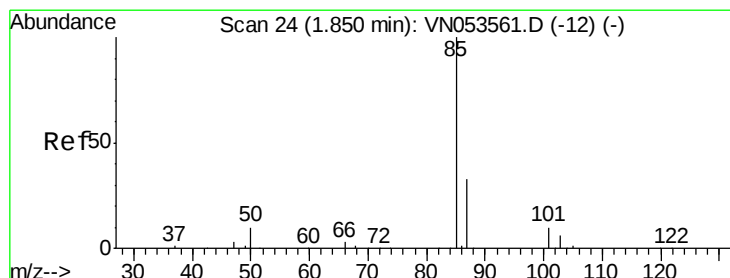
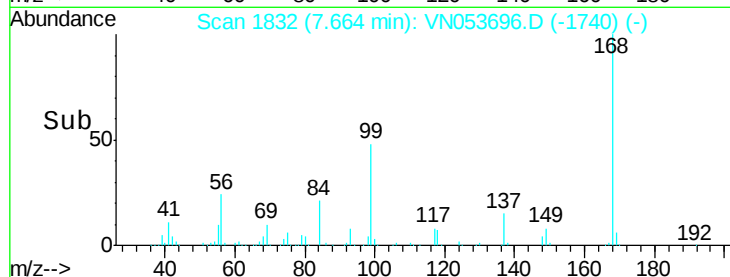
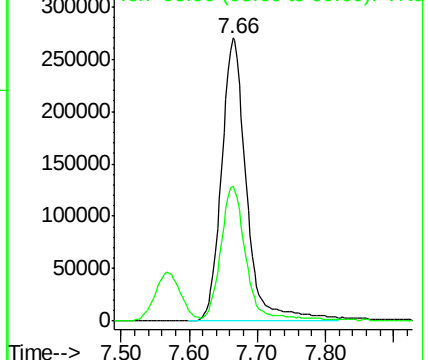
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#2

Dichlorodifluoromethane

Concen: 17.983 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN053696.D

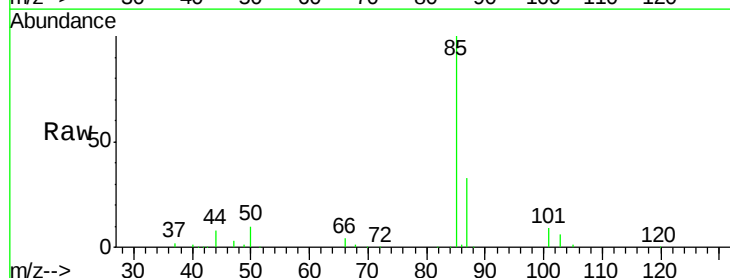
Acq: 11 Feb 2019 11:25

Tgt Ion: 85 Resp: 138281

Ion Ratio Lower Upper

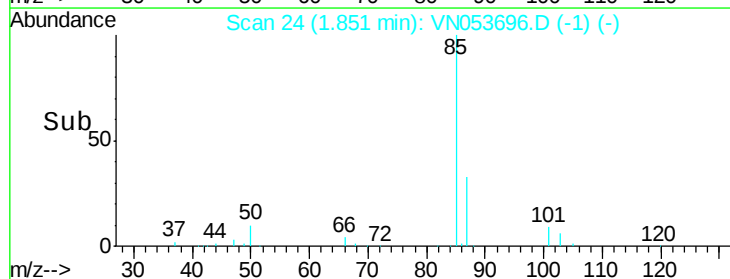
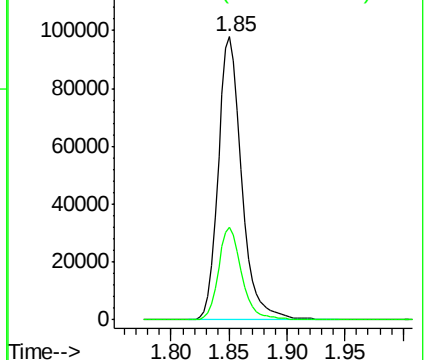
85 100

87 32.6 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: 17.270 ug/l

RT: 2.06 min Scan# 88

Delta R.T. 0.00 min

Lab File: VN053696.D

Acq: 11 Feb 2019 11:25

Instrument :

MSVOA_N

ClientSampleId :

VN0211WBS01

Tot Ion: 50 Resp: 141560

Ion Ratio Lower Upper

50 100

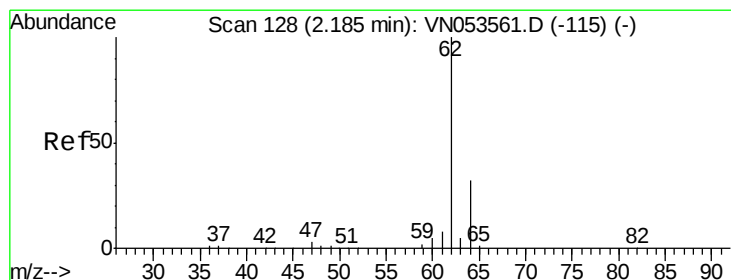
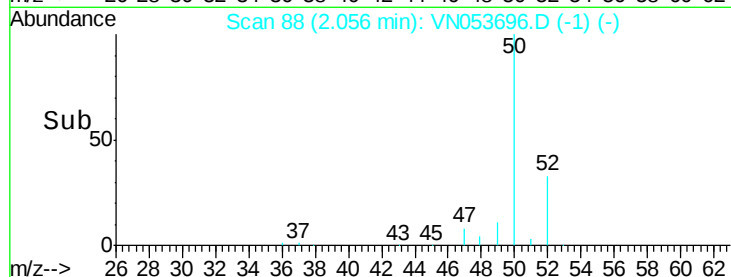
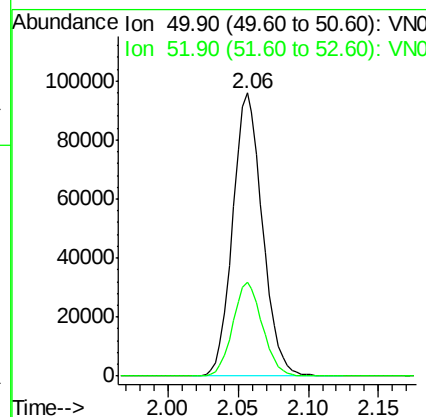
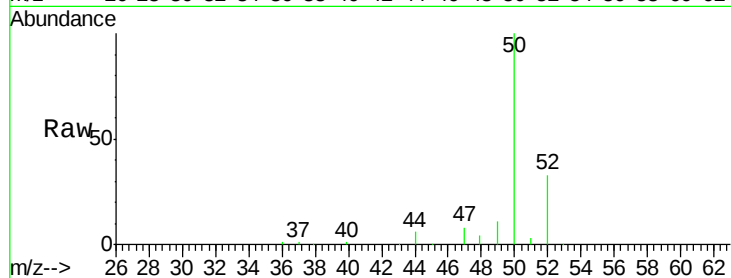
52 33.3 26.6 40.0

Manual Integrations

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#4

Vinyl Chloride

Concen: 18.180 ug/l

RT: 2.19 min Scan# 128

Delta R.T. 0.00 min

Lab File: VN053696.D

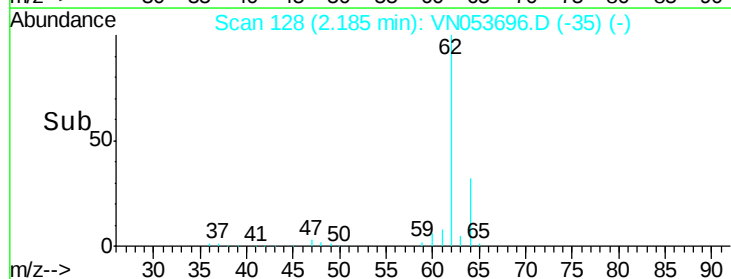
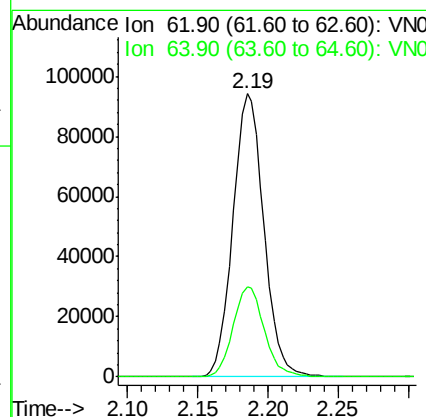
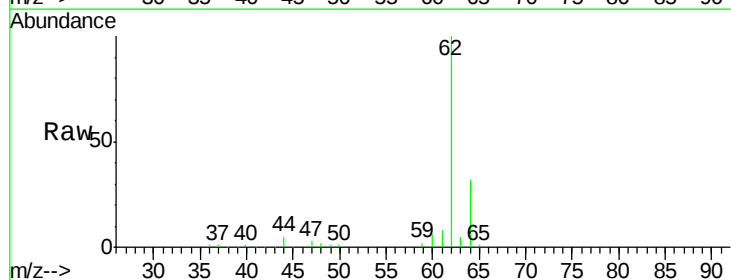
Acq: 11 Feb 2019 11:25

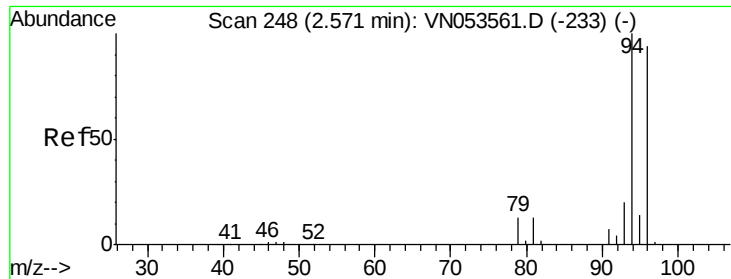
Tgt Ion: 62 Resp: 144659

Ion Ratio Lower Upper

62 100

64 32.0 25.4 38.2





#5

Bromomethane

Concen: 20.123 ug/l

RT: 2.57 min Scan# 248

Delta R.T. 0.00 min

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Acq: 11 Feb 2019 11:25

Instrument :

MSVOA_N

ClientSampleId :

VN0211WBS01

Tot Ion: 94 Resp: 104696

Ion Ratio Lower Upper

94 100

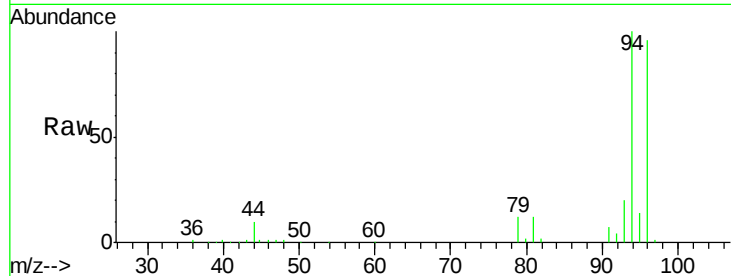
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Manual Integrations

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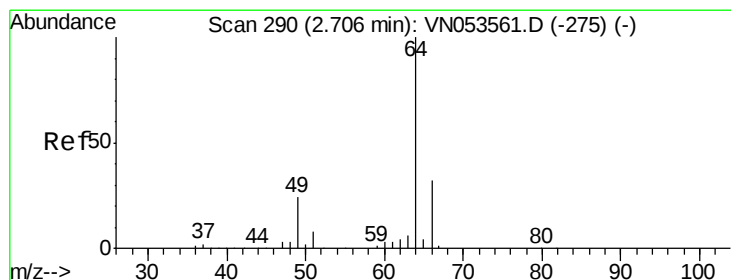
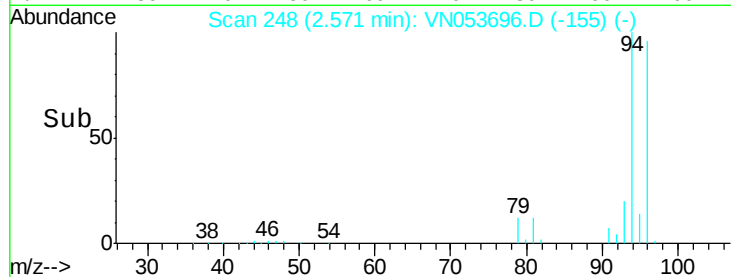
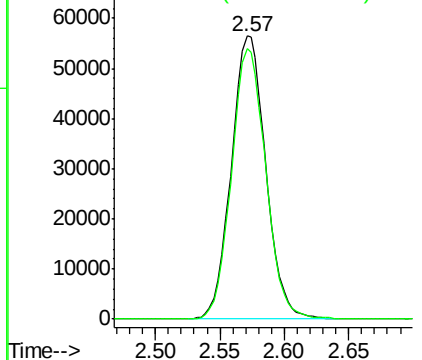
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Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO



#6

Chloroethane

Concen: 19.785 ug/l

RT: 2.71 min Scan# 290

Delta R.T. 0.00 min

Lab File: VN053696.D

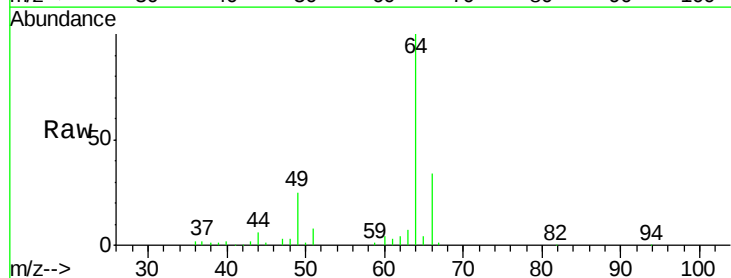
Acq: 11 Feb 2019 11:25

Tgt Ion: 64 Resp: 89966

Ion Ratio Lower Upper

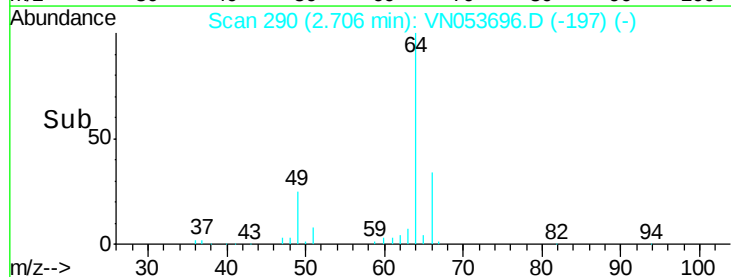
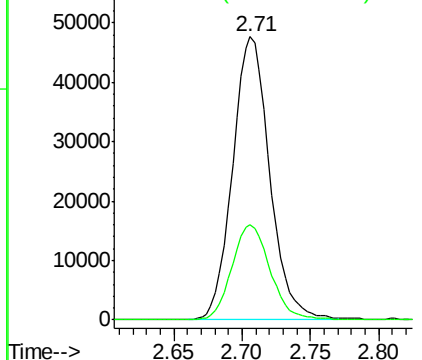
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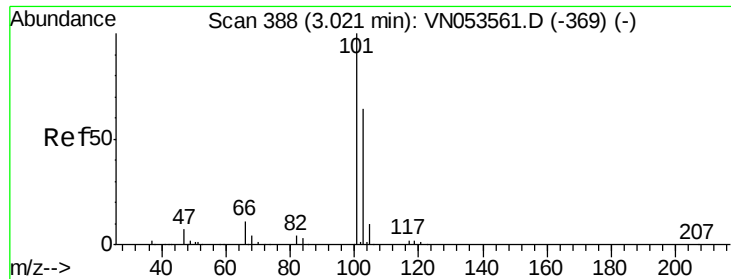
66 33.7 25.1 37.7



Abundance Ion 63.90 (63.60 to 64.60): VNO

Ion 65.90 (65.60 to 66.60): VNO





#7

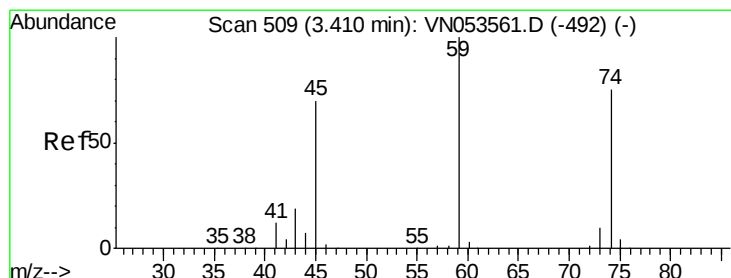
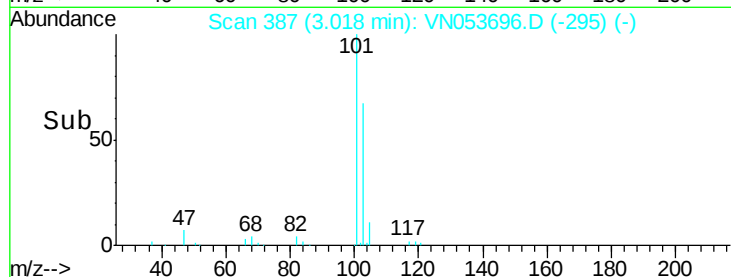
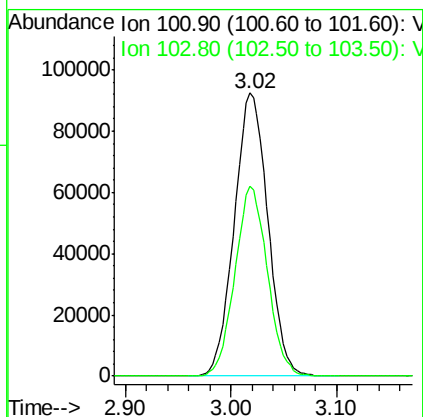
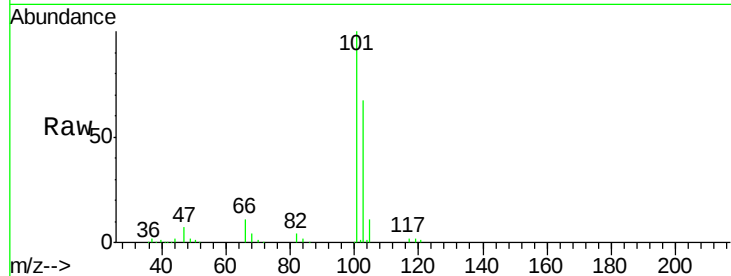
Trichlorofluoromethane
Concen: 18.941 ug/l
RT: 3.02 min Scan# 387
Delta R.T. -0.00 min
Lab File: VN053696.D
Acq: 11 Feb 2019 11:25

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ClientSampled :
VN0211WBS01

Tot Ion	Ratio	Lower	Upper
101	100		
103	67.2	51.6	77.4

Manual Integrations
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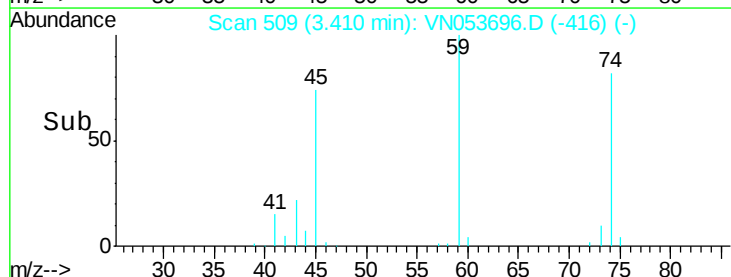
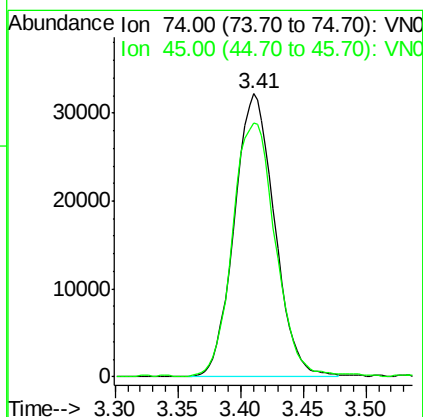
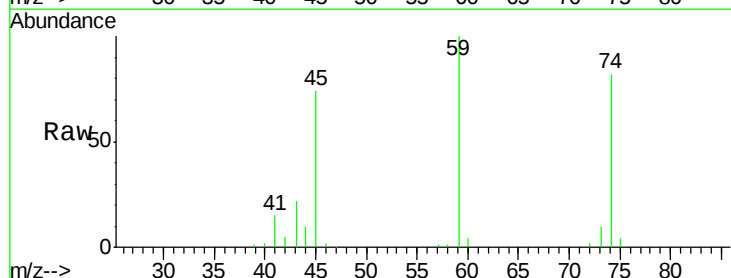
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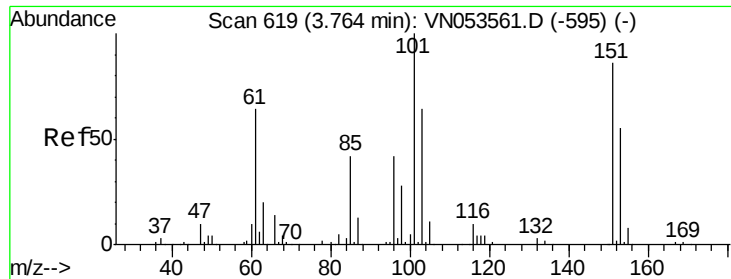


#8

Diethyl Ether
Concen: 18.229 ug/l
RT: 3.41 min Scan# 509
Delta R.T. 0.00 min
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Tgt Ion	Ratio	Lower	Upper
74	100		
45	96.3	47.9	143.7





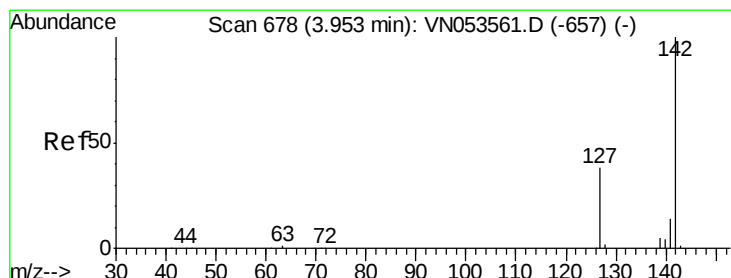
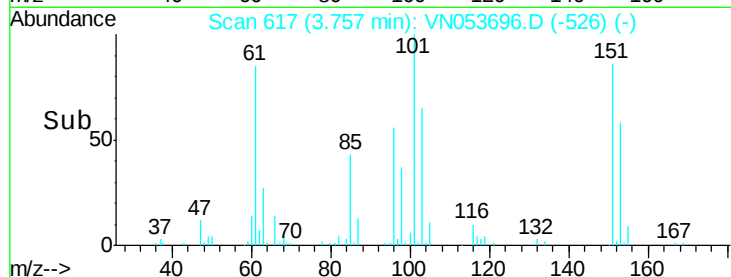
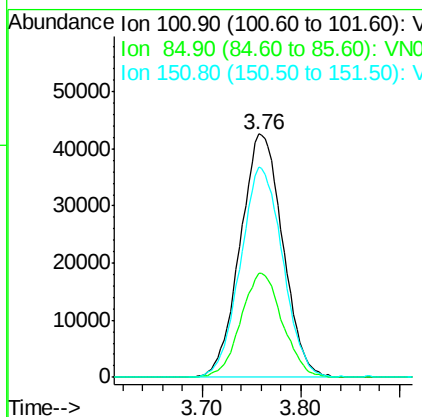
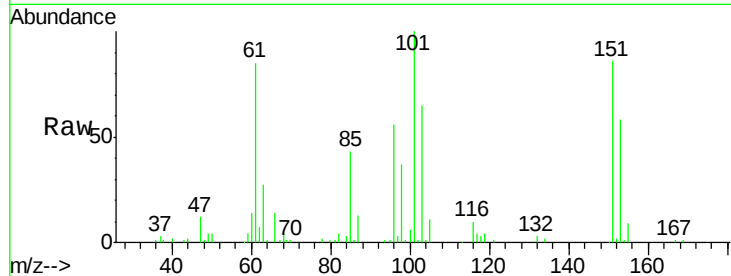
#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 19.050 ug/l
 RT: 3.76 min Scan# 617
 Delta R.T. -0.01 min
 Lab File: VN053696.D
 Acq: 11 Feb 2019 11:25

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0211WBS01

Tot Ion	Ratio	Resp	Lower	Upper
101	100	127130		
85	41.7	32.8	49.2	
151	85.9	66.9	100.3	

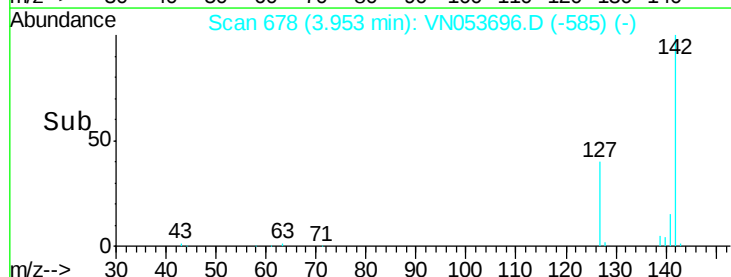
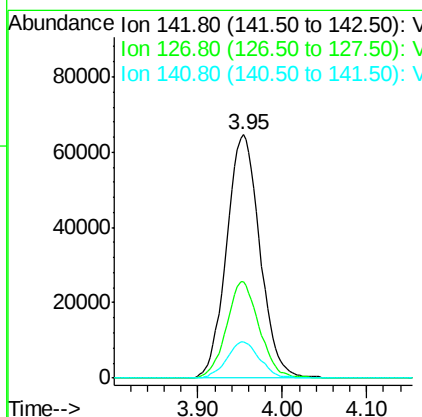
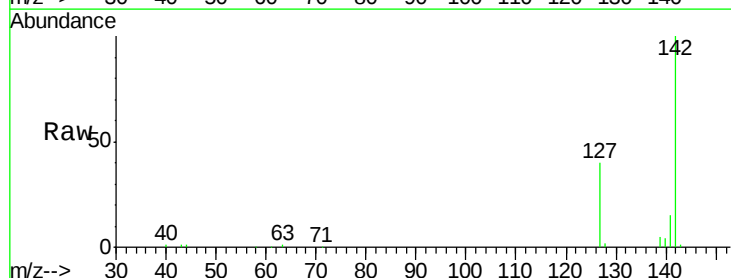
Manual Integrations
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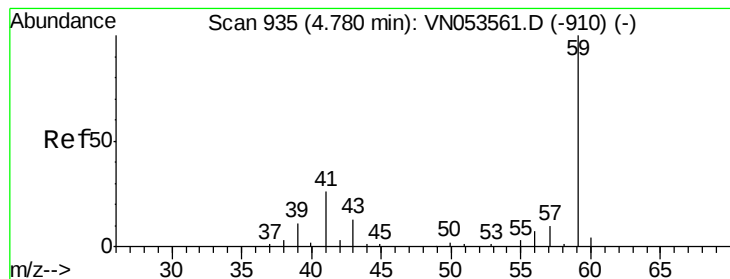
MMDadoda
 2/12/2019 12:50:23 PM



#10
 Methyl Iodide
 Concen: 16.992 ug/l
 RT: 3.95 min Scan# 678
 Delta R.T. 0.00 min
 Lab File: VN053696.D
 Acq: 11 Feb 2019 11:25

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	177977		
127	38.9	31.0	46.4	
141	14.5	11.1	16.7	





#11

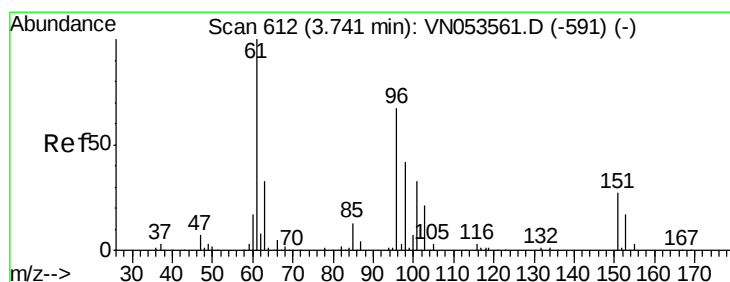
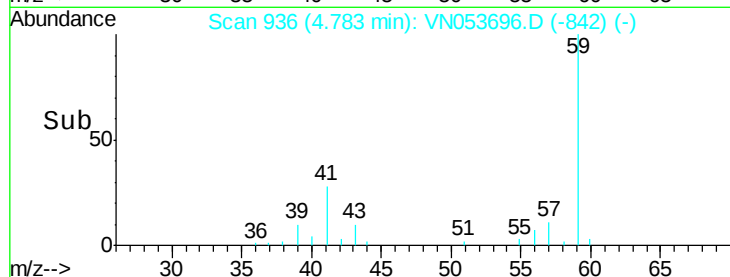
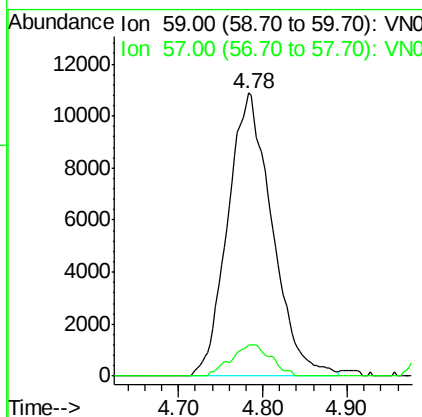
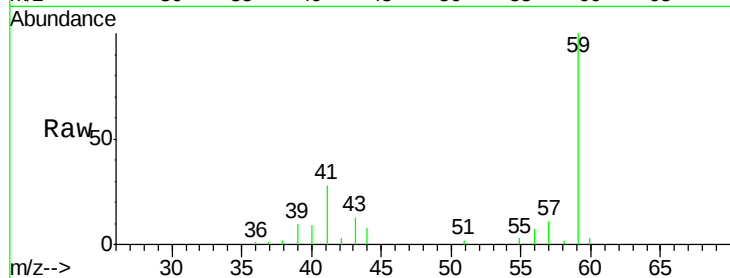
Tert butyl alcohol
 Concen: 97.021 ug/l
 RT: 4.78 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VN053696.D
 Acq: 11 Feb 2019 11:25

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0211WBS01

Tot Ion	59	57	Ratio	100	10.0	Resp	39771	Lower	Upper
59	100								
57		10.0						8.2	12.4

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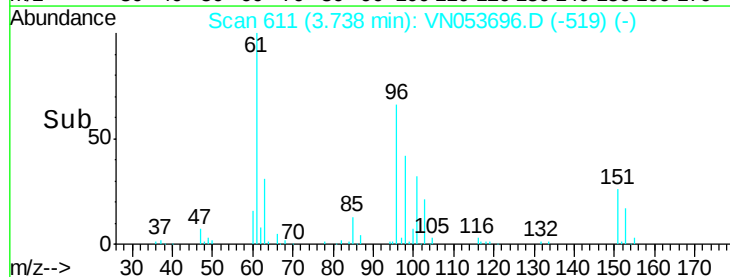
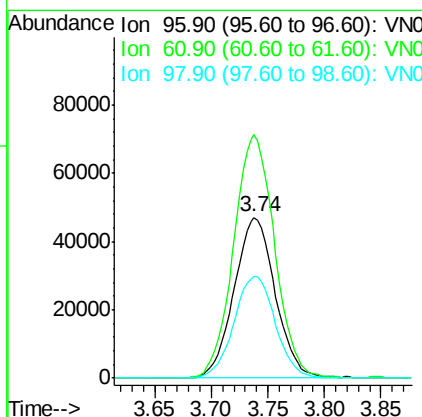
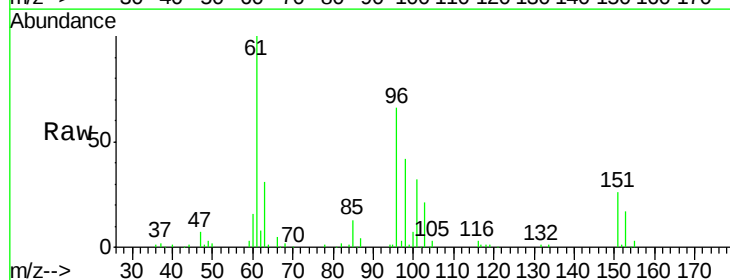
MMDadoda
 2/12/2019 12:50:23 PM

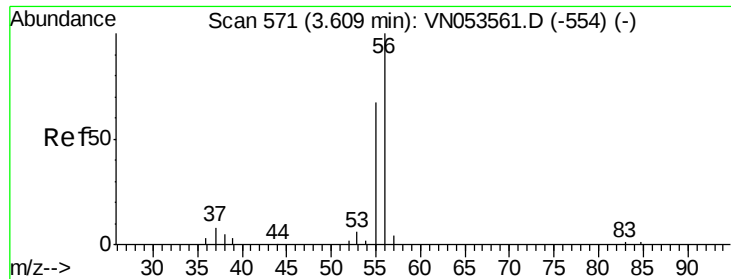


#12

1,1-Dichloroethene
 Concen: 18.578 ug/l
 RT: 3.74 min Scan# 611
 Delta R.T. -0.00 min
 Lab File: VN053696.D
 Acq: 11 Feb 2019 11:25

Tgt Ion	96	61	98	Ratio	100	151.4	63.6	Resp	118778	Lower	Upper
96	100										
61		151.4								122.9	184.3
98		63.6								49.4	74.0





#13

Acrolein

Concen: 49.927 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN053696.D

Acq: 11 Feb 2019 11:25

Instrument :

MSVOA_N

ClientSampleId :

VN0211WBS01

Tot Ion: 56 Resp: 11143

Ion Ratio Lower Upper

56 100

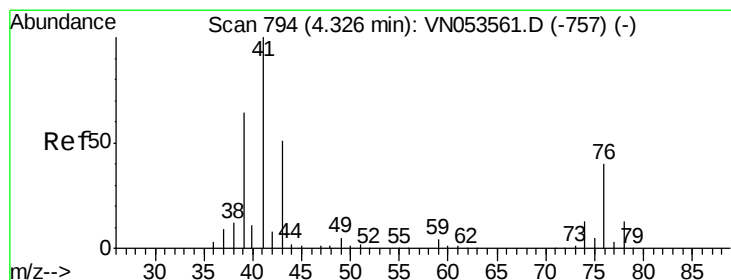
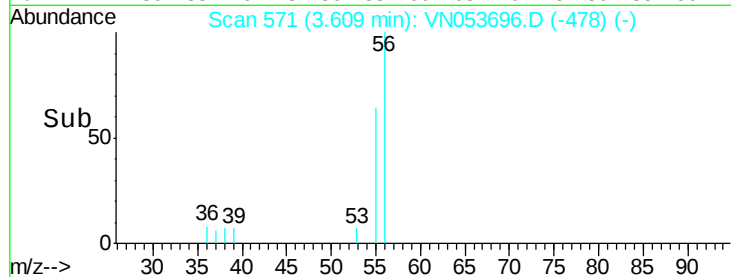
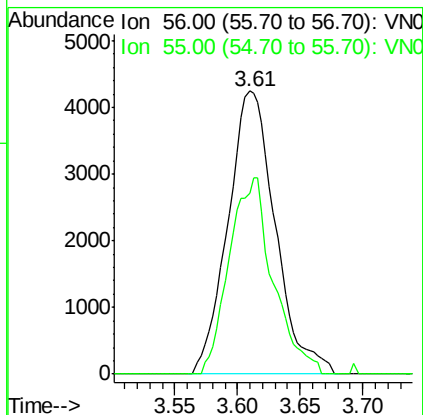
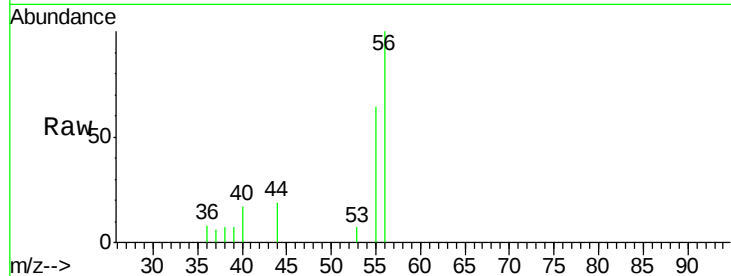
55 64.4 57.4 86.0

Manual Integrations

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#14

Allyl chloride

Concen: 18.249 ug/l

RT: 4.32 min Scan# 793

Delta R.T. -0.00 min

Lab File: VN053696.D

Acq: 11 Feb 2019 11:25

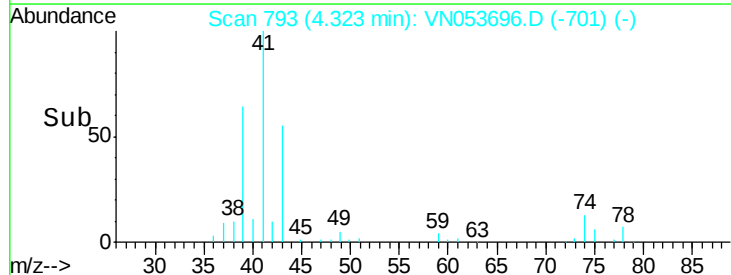
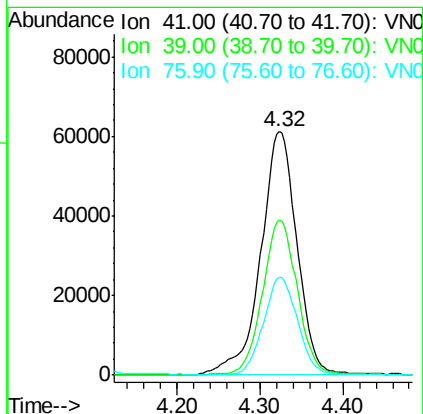
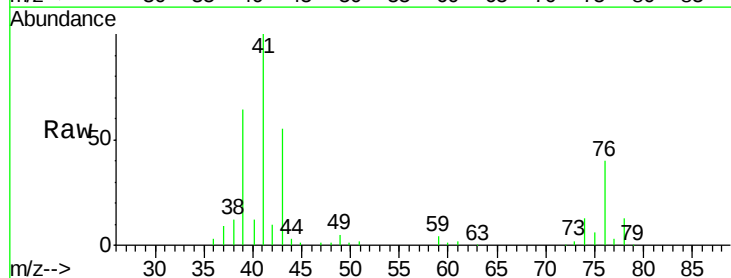
Tgt Ion: 41 Resp: 185777

Ion Ratio Lower Upper

41 100

39 61.3 48.9 73.3

76 37.9 29.4 44.2





#15

Acrylonitrile

Concen: 94.405 ug/l

RT: 4.99 min Scan# 1000

Delta R.T. 0.00 min

Lab File: VN053696.D

Acq: 11 Feb 2019 11:25

Instrument :

MSVOA_N

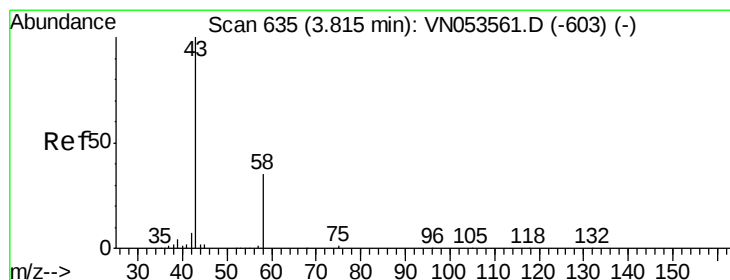
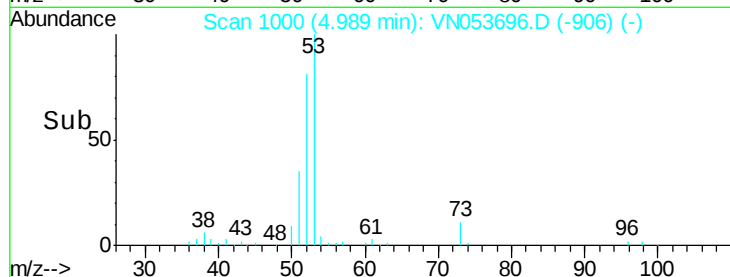
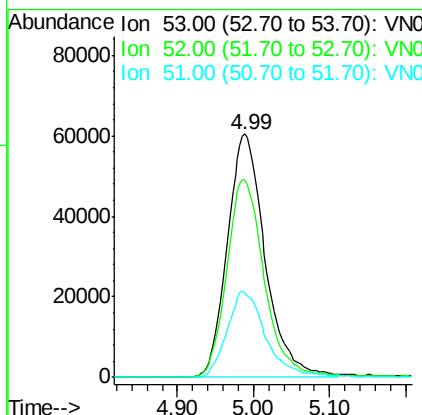
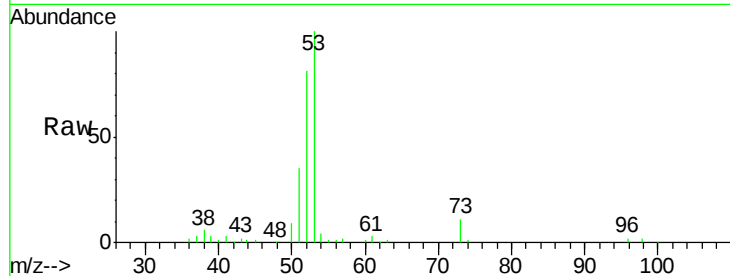
ClientSampleId :

VN0211WBS01

Tot Ion:	53	Resp:	208916
Ion Ratio		Lower	Upper
53	100		
52	80.9	66.0	99.0
51	35.4	28.3	42.5

Manual Integrations
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2/12/2019 12:50:23 PM



#16

Acetone

Concen: 97.145 ug/l

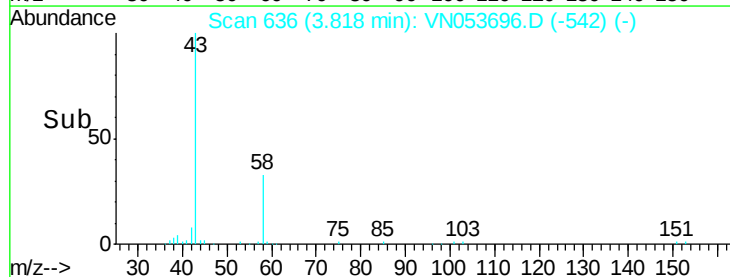
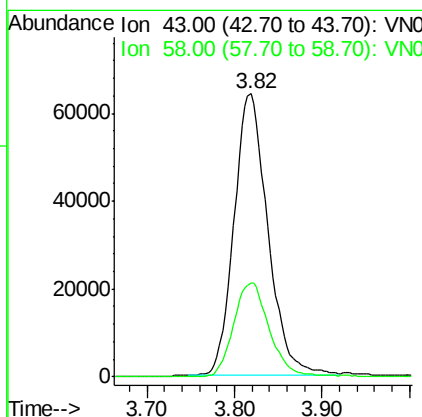
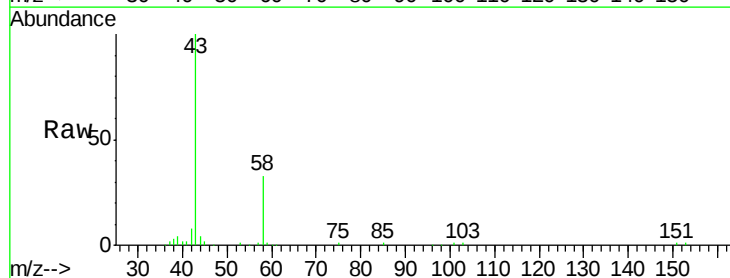
RT: 3.82 min Scan# 636

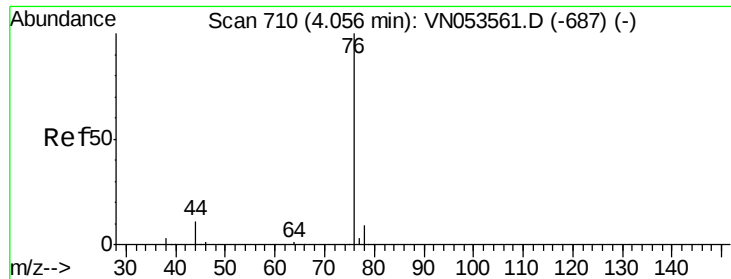
Delta R.T. 0.00 min

Lab File: VN053696.D

Acq: 11 Feb 2019 11:25

Tgt Ion:	43	Resp:	172593
Ion Ratio		Lower	Upper
43	100		
58	33.4	27.1	40.7





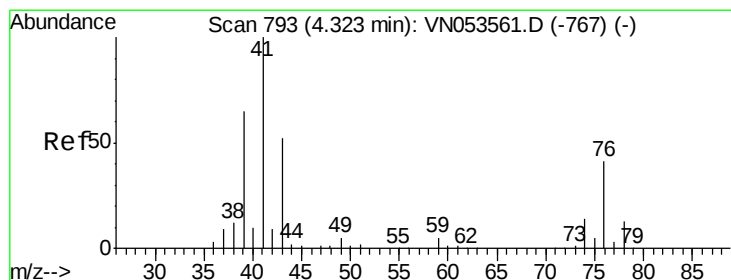
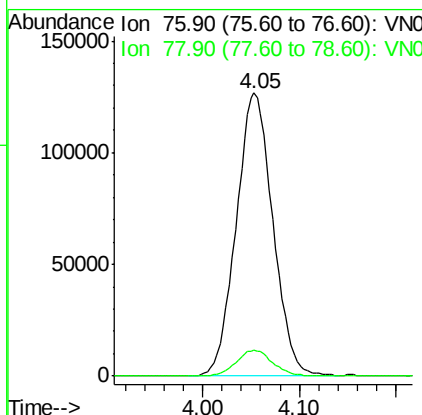
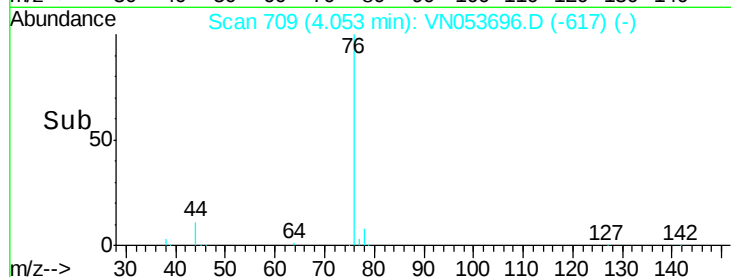
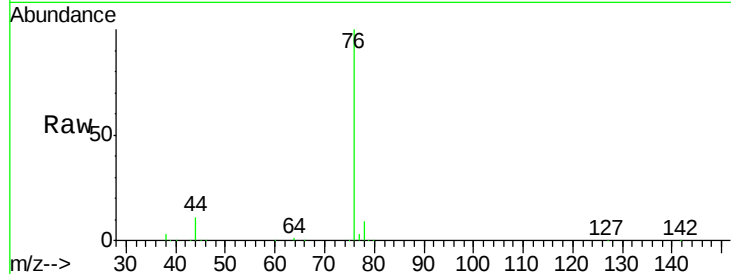
#17
Carbon Disulfide
Concen: 16.729 ug/l
RT: 4.05 min Scan# 709
Delta R.T. -0.00 min
Lab File: VN053696.D
Acq: 11 Feb 2019 11:25

Instrument :
MSVOA_N
ClientSampleId :
VN0211WBS01

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.0	7.3	10.9

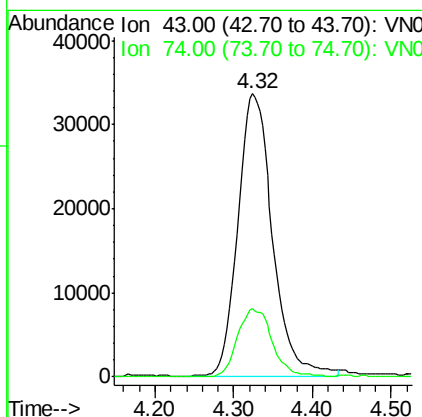
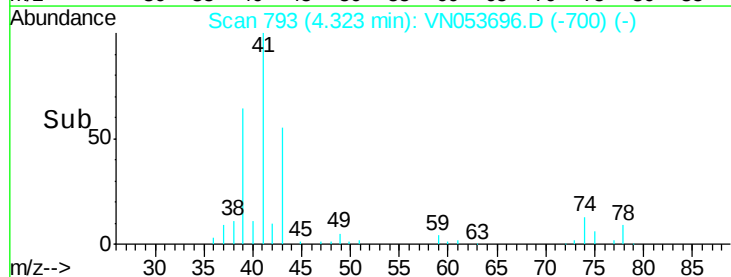
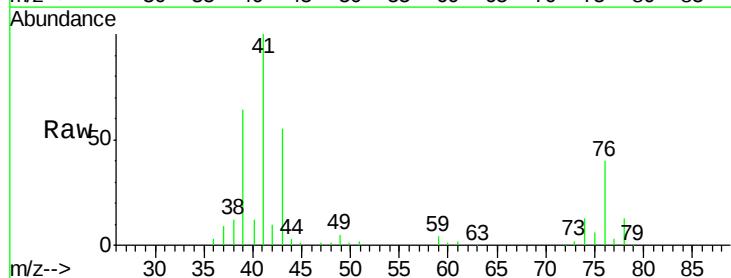
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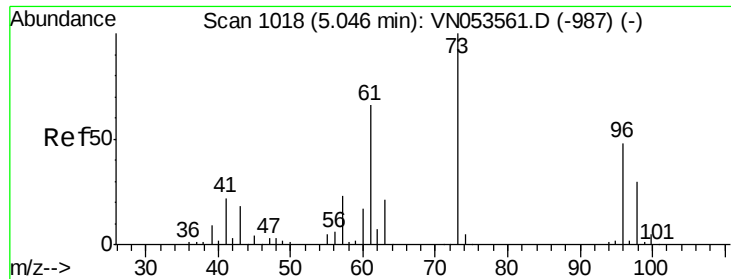
MMDadoda
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#18
Methyl Acetate
Concen: 19.867 ug/l
RT: 4.32 min Scan# 793
Delta R.T. 0.00 min
Lab File: VN053696.D
Acq: 11 Feb 2019 11:25

Tgt Ion	Ratio	Lower	Upper
43	100		
74	24.1	19.4	29.2





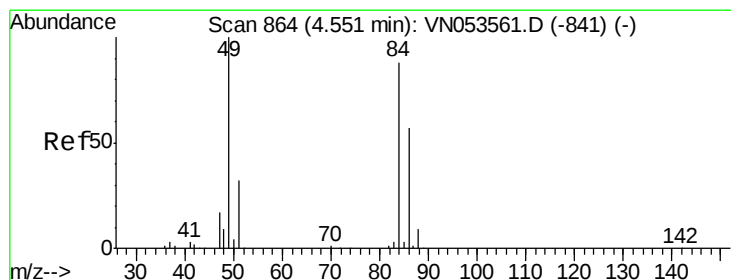
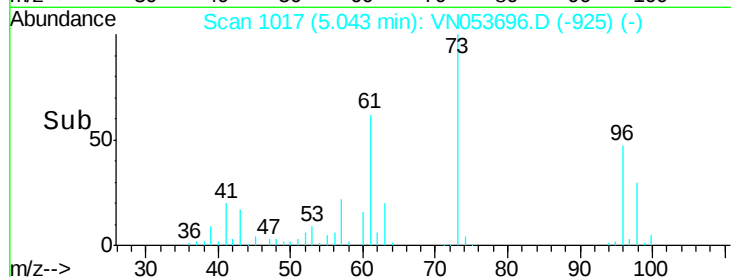
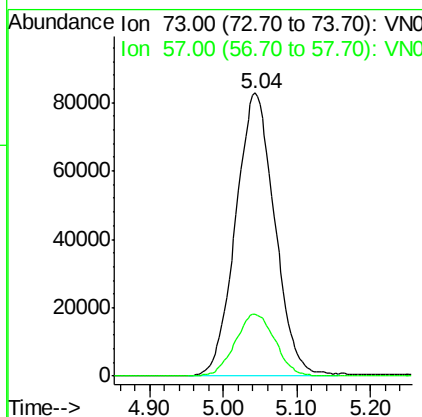
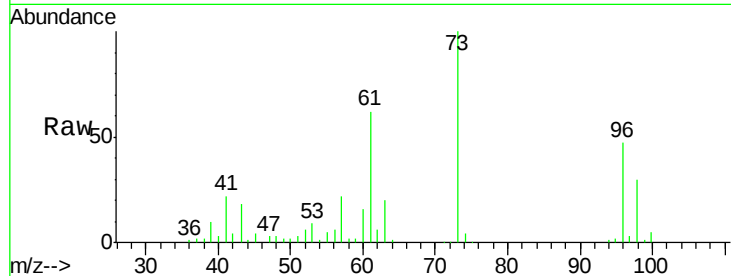
#19
Methyl tert-butyl Ether
Concen: 18.845 ug/l
RT: 5.04 min Scan# 1017
Delta R.T. -0.00 min
Lab File: VN053696.D
Acq: 11 Feb 2019 11:25

Instrument :
MSVOA_N
ClientSampleId :
VN0211WBS01

Tot Ion: 73 Resp: 305440
Ion Ratio Lower Upper
73 100
57 21.9 18.3 27.5

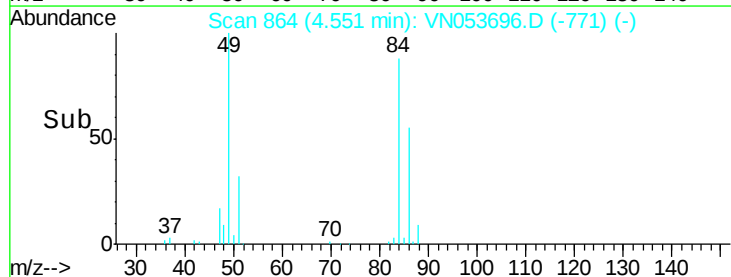
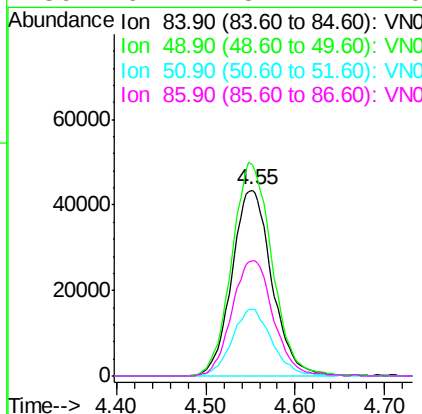
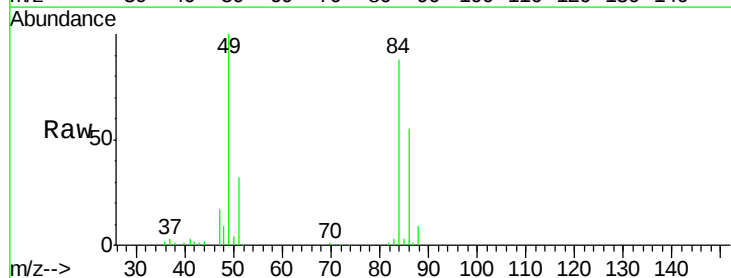
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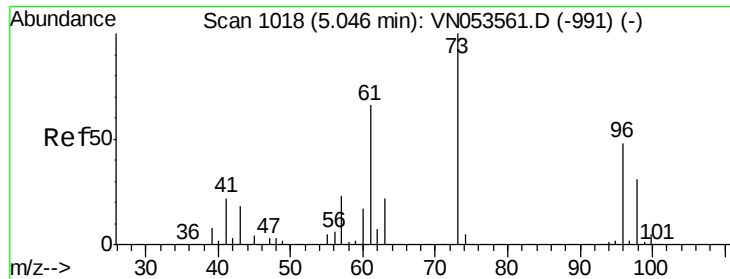
MMDadoda
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#20
Methylene Chloride
Concen: 18.198 ug/l
RT: 4.55 min Scan# 864
Delta R.T. 0.00 min
Lab File: VN053696.D
Acq: 11 Feb 2019 11:25

Tgt Ion: 84 Resp: 135645
Ion Ratio Lower Upper
84 100
49 113.7 94.3 141.5
51 36.1 29.4 44.2
86 62.2 51.4 77.0





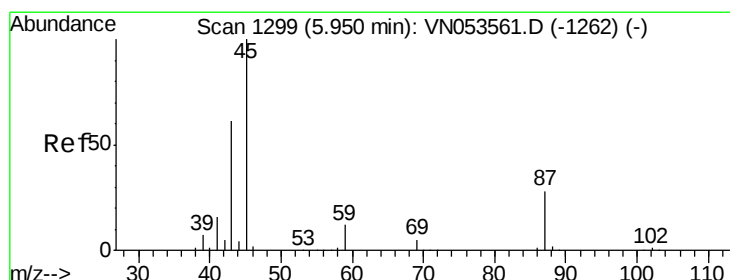
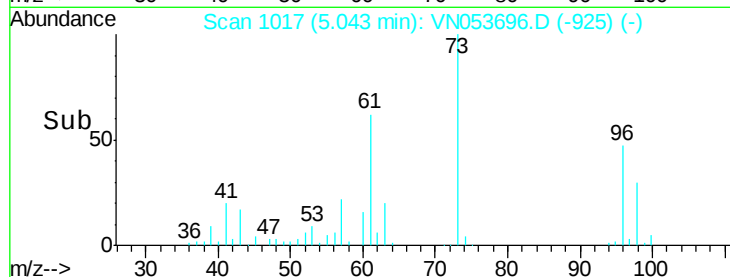
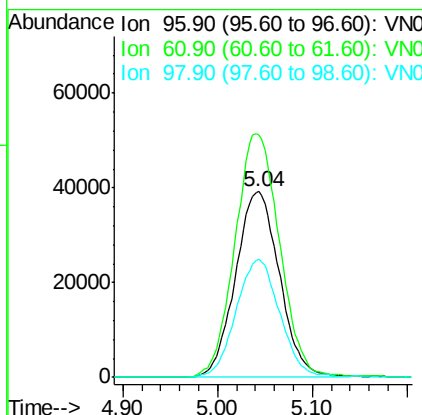
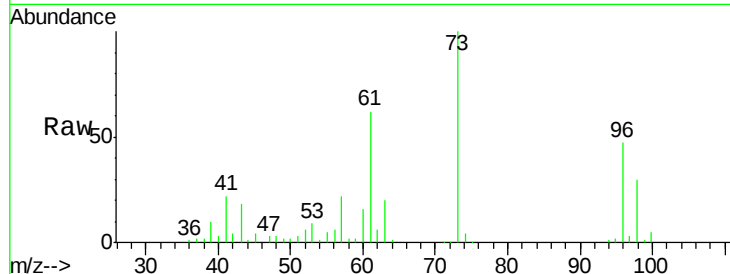
#21
trans-1,2-Dichloroethene
Concen: 18.355 ug/l
RT: 5.04 min Scan# 1017
Delta R.T. -0.00 min
Lab File: VN053696.D
Acq: 11 Feb 2019 11:25

Instrument :
MSVOA_N
ClientSampleId :
VN0211WBS01

Tot Ion	Ratio	Resp	Lower	Upper
96	100	126608		
61	130.6		110.1	165.1
98	63.6		50.0	75.0

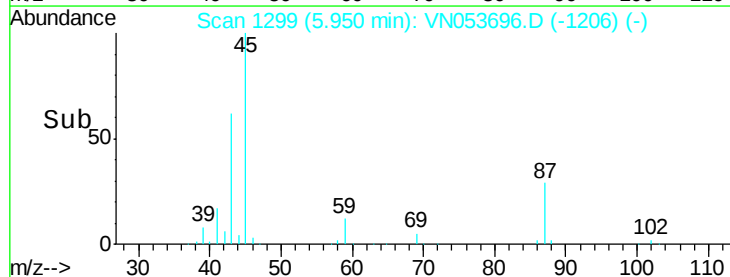
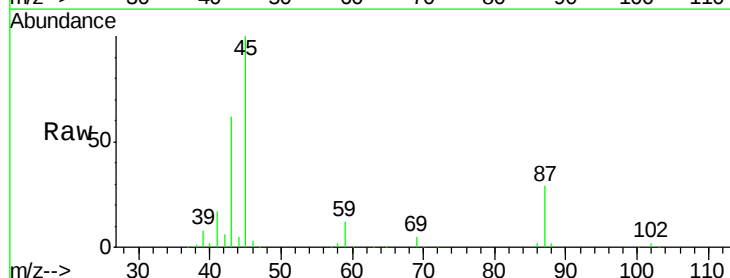
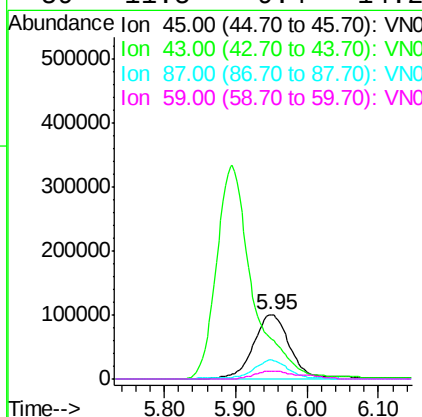
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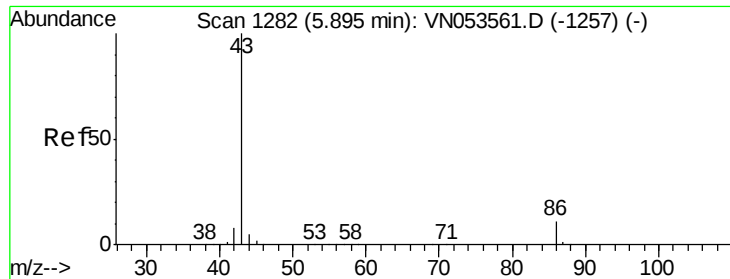
MMDadoda
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#22
Diisopropyl ether
Concen: 18.752 ug/l
RT: 5.95 min Scan# 1299
Delta R.T. 0.00 min
Lab File: VN053696.D
Acq: 11 Feb 2019 11:25

Tgt Ion	Ratio	Resp	Lower	Upper
45	100	353722		
43	60.5		44.2	66.4
87	28.1		22.7	34.1
59	11.5		9.4	14.2





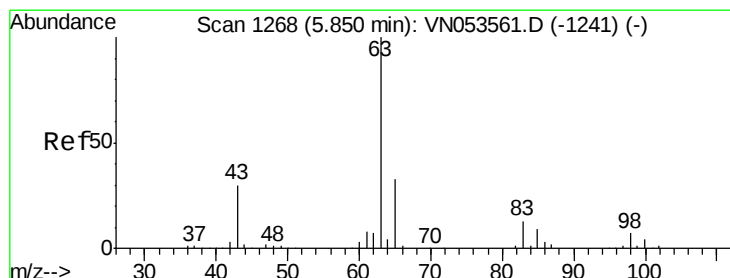
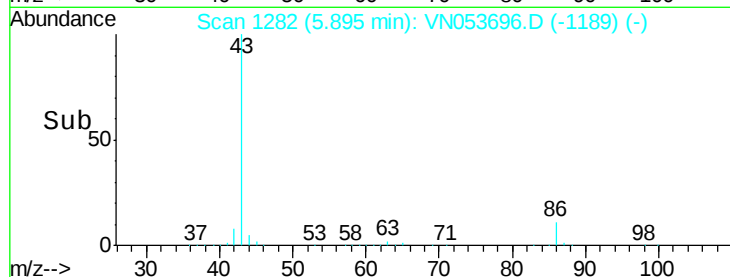
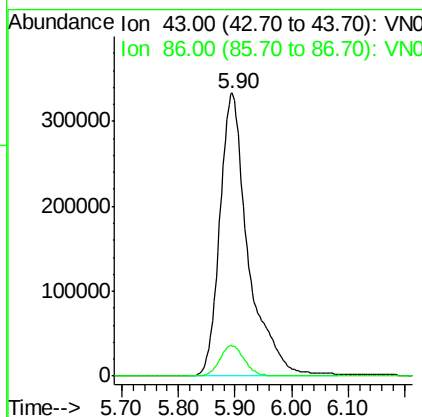
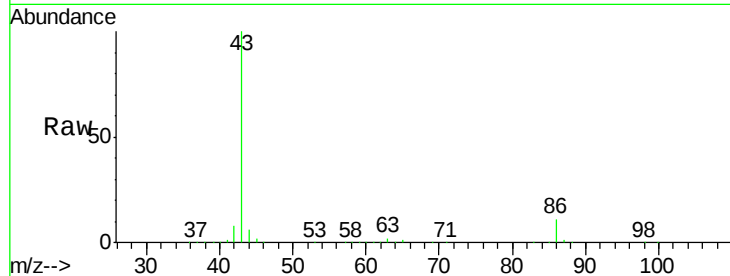
#23
 Vinyl Acetate
 Concen: 89.604 ug/l
 RT: 5.90 min Scan# 1282
 Delta R.T. 0.00 min
 Lab File: VN053696.D
 Acq: 11 Feb 2019 11:25

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0211WBS01

Tot Ion: 43 Resp: 1169243
 Ion Ratio Lower Upper
 43 100
 86 10.7 8.4 12.6

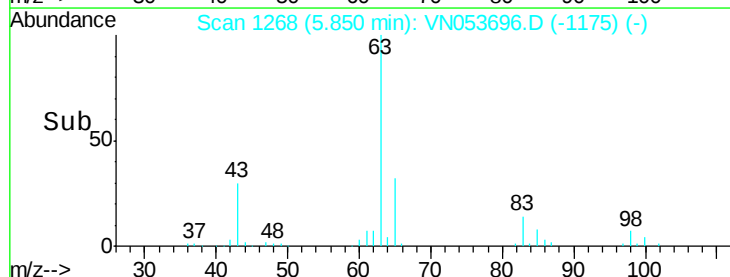
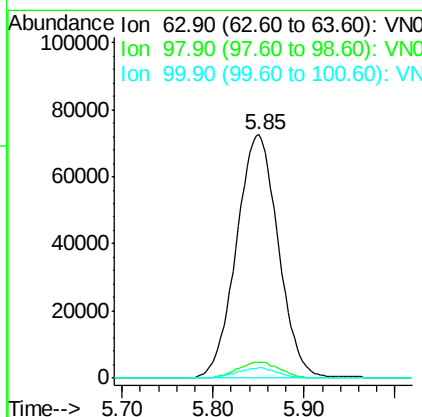
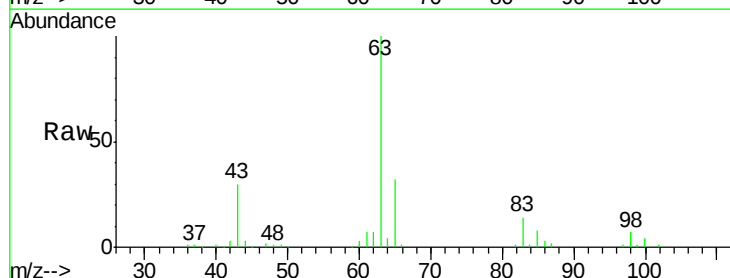
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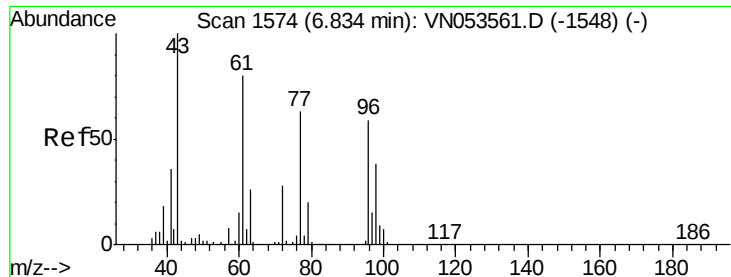
MMDadoda
 2/12/2019 12:50:23 PM



#24
 1,1-Dichloroethane
 Concen: 18.445 ug/l
 RT: 5.85 min Scan# 1268
 Delta R.T. 0.00 min
 Lab File: VN053696.D
 Acq: 11 Feb 2019 11:25

Tgt Ion: 63 Resp: 232060
 Ion Ratio Lower Upper
 63 100
 98 6.6 3.3 9.9
 100 4.1 2.1 6.5





#25

2-Butanone

Concen: 94.364 ug/l

RT: 6.84 min Scan# 1575

Delta R.T. 0.00 min

Lab File: VN053696.D

Acq: 11 Feb 2019 11:25

Instrument :

MSVOA_N

ClientSampleId :

VN0211WBS01

Tot Ion: 43 Resp: 239107

Ion Ratio Lower Upper

43 100

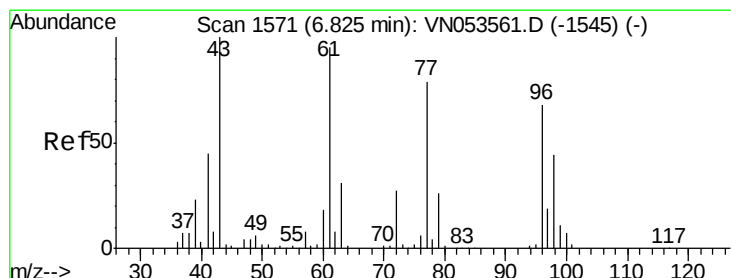
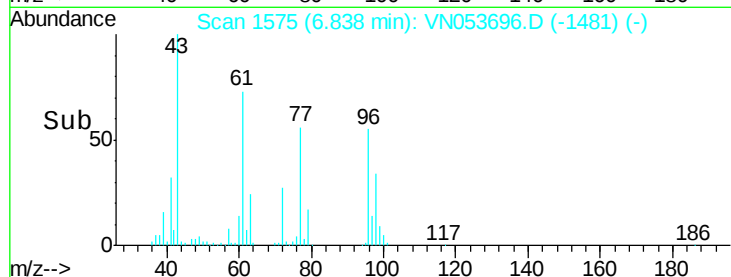
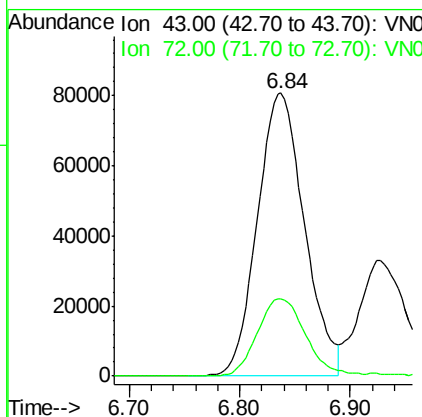
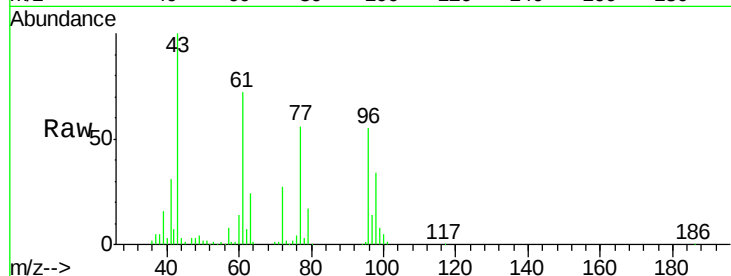
72 27.1 22.0 33.0

Manual Integrations

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MMDadoda

2/12/2019 12:50:23 PM



#26

2,2-Dichloropropane

Concen: 18.389 ug/l

RT: 6.82 min Scan# 1570

Delta R.T. -0.00 min

Lab File: VN053696.D

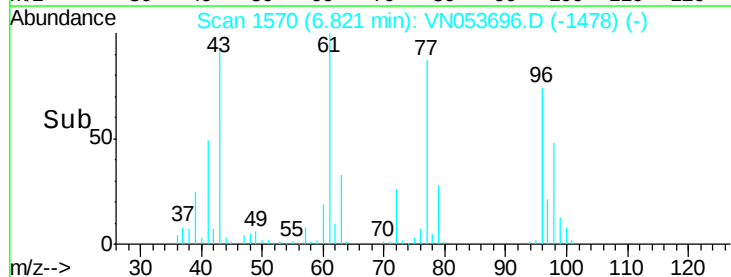
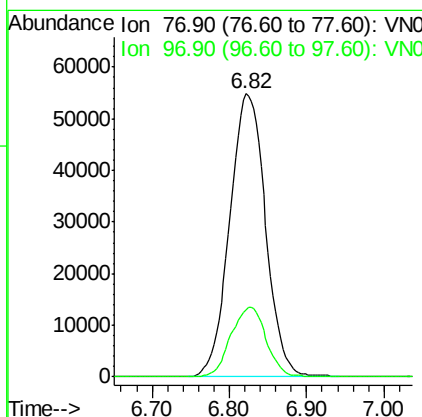
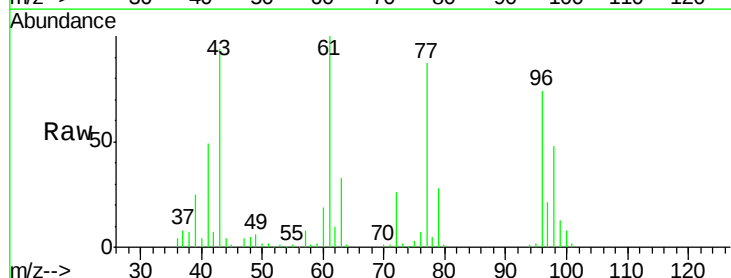
Acq: 11 Feb 2019 11:25

Tgt Ion: 77 Resp: 176609

Ion Ratio Lower Upper

77 100

97 24.2 12.2 36.6





#27

cis-1,2-Dichloroethene

Concen: 18.748 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. -0.00 min

Lab File: VN053696.D

Acq: 11 Feb 2019 11:25

Instrument :

MSVOA_N

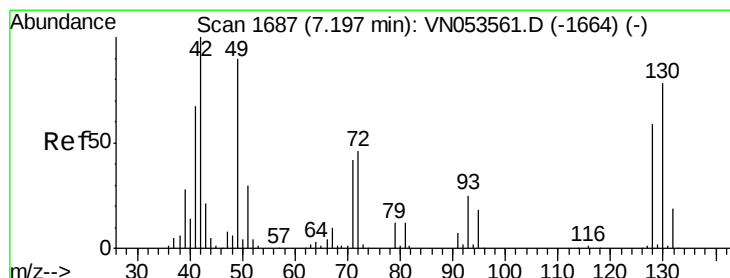
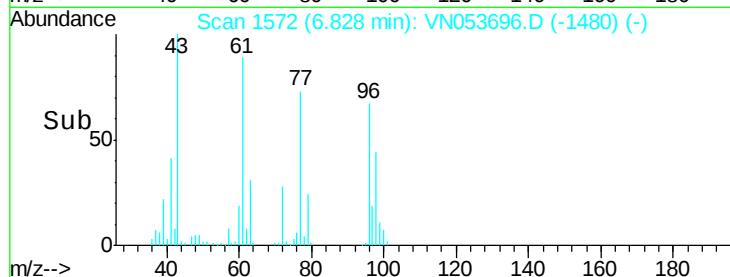
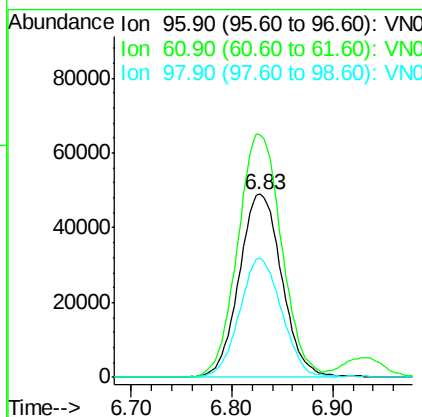
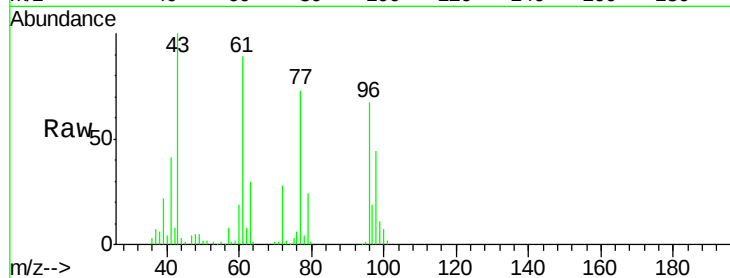
ClientSampleId :

VN0211WBS01

Tot Ion:	96	Resp:	143798
Ion Ratio	Lower	Upper	
96	100		
61	136.5	0.0	283.8
98	64.5	0.0	129.2

Manual Integrations
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#28

Bromochloromethane

Concen: 19.288 ug/l

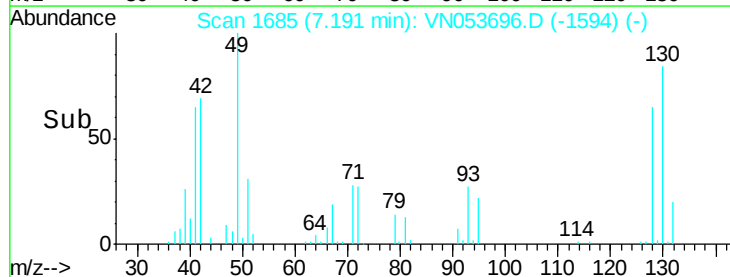
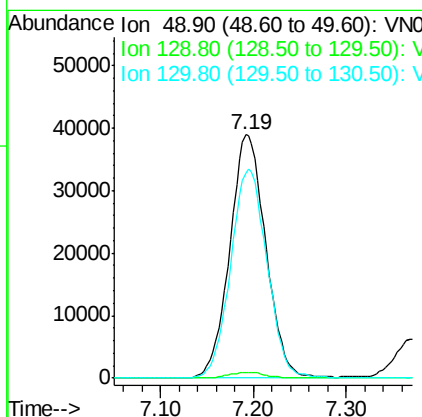
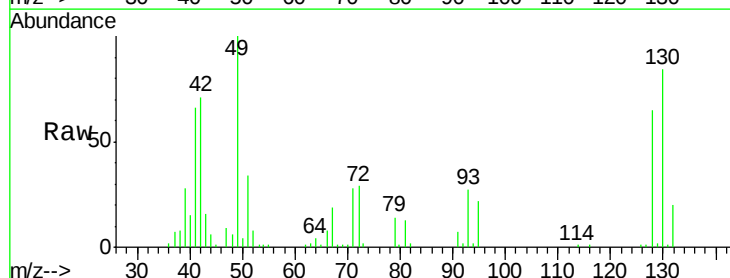
RT: 7.19 min Scan# 1685

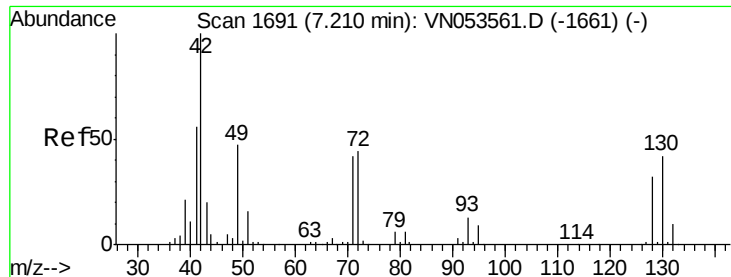
Delta R.T. -0.01 min

Lab File: VN053696.D

Acq: 11 Feb 2019 11:25

Tgt Ion:	49	Resp:	105309
Ion Ratio	Lower	Upper	
49	100		
129	1.2	0.0	4.0
130	86.6	66.3	99.5





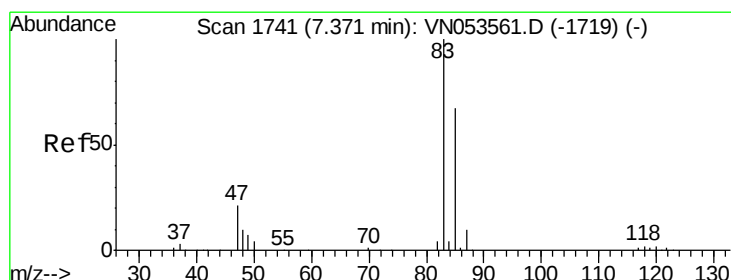
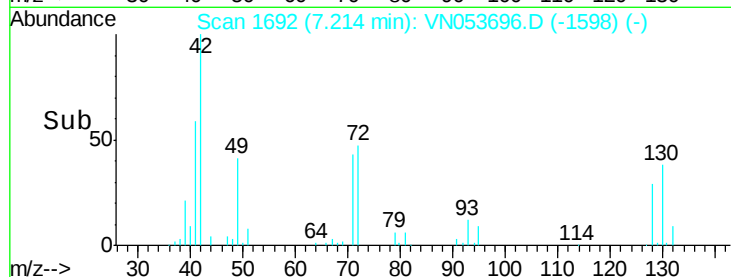
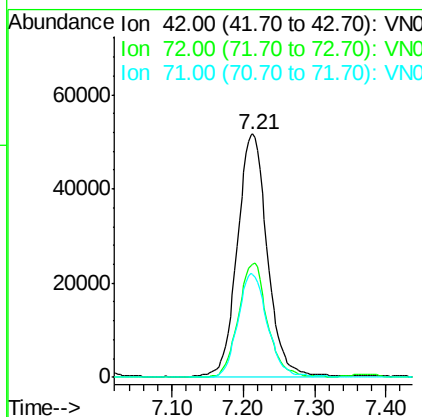
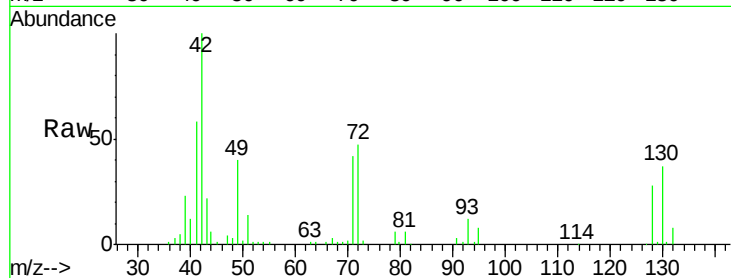
#29
Tetrahydrofuran
Concen: 92.497 ug/l
RT: 7.21 min Scan# 1692
Delta R.T. 0.00 min
Lab File: VN053696.D
Acq: 11 Feb 2019 11:25

Instrument :
MSVOA_N
ClientSampleId :
VN0211WBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	45.6	35.2	52.8
71	41.8	33.0	49.4

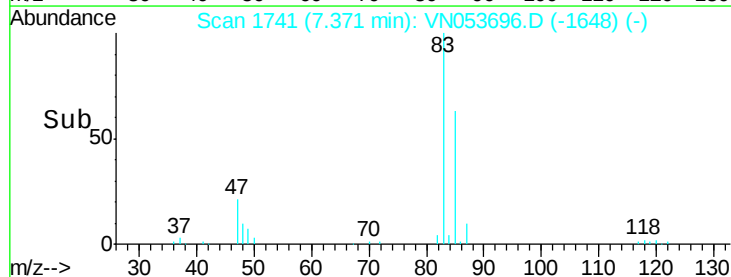
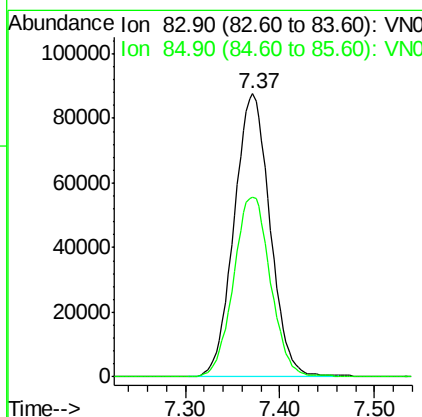
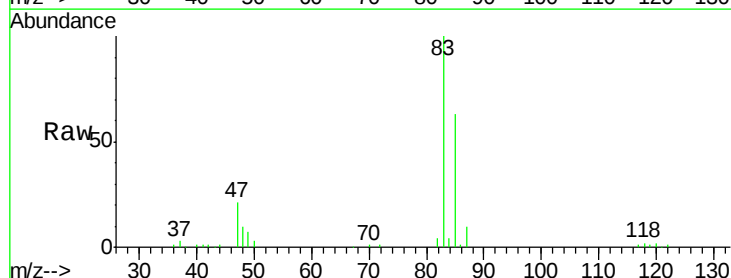
Manual Integrations
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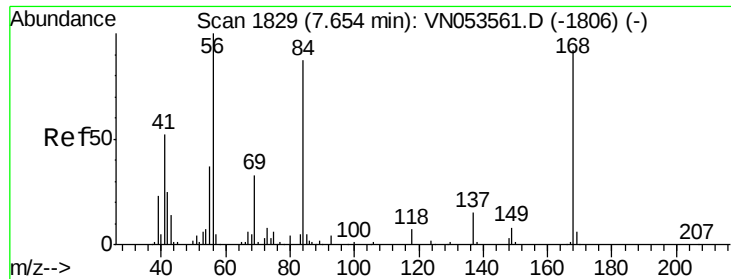
MMDadoda
2/12/2019 12:50:23 PM



#30
Chloroform
Concen: 18.534 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. 0.00 min
Lab File: VN053696.D
Acq: 11 Feb 2019 11:25

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.4	52.2	78.2





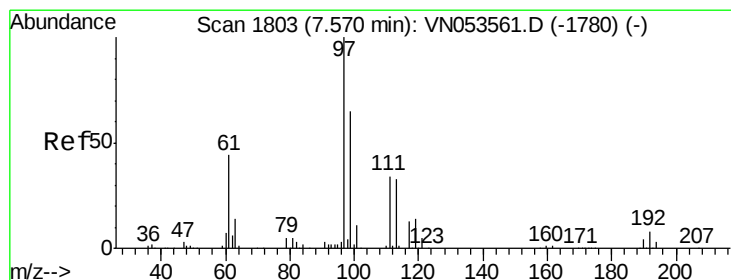
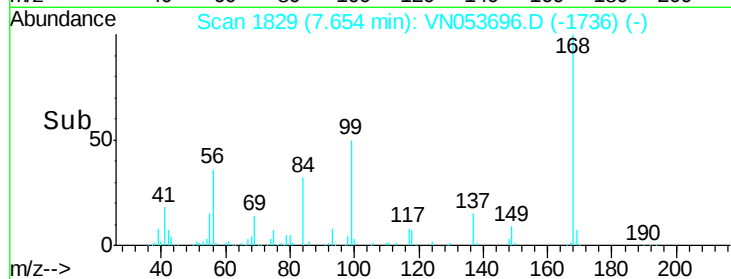
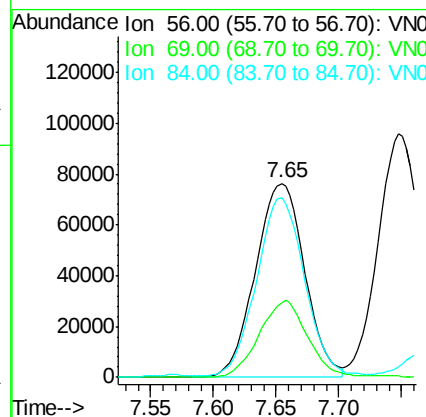
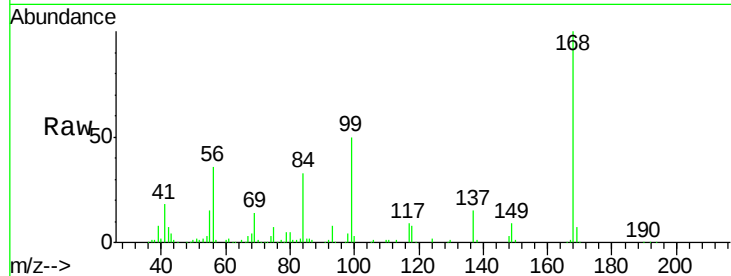
#31
Cyclohexane
Concen: 17.699 ug/l
RT: 7.65 min Scan# 1829
Delta R.T. 0.00 min
Lab File: VN053696.D
Acq: 11 Feb 2019 11:25

Instrument :
MSVOA_N
ClientSampled :
VN0211WBS01

Tot Ion	Ratio	Lower	Upper
56	100		
69	38.9	26.4	39.6
84	91.4	67.9	101.9

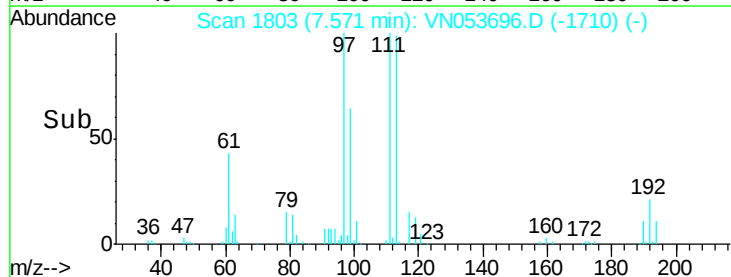
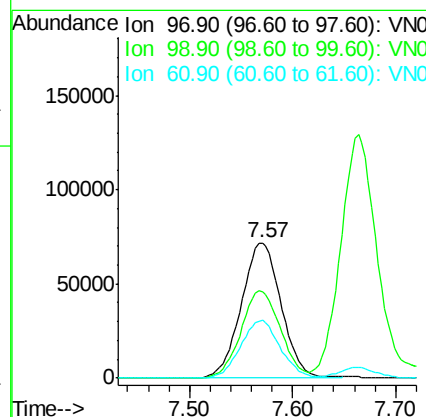
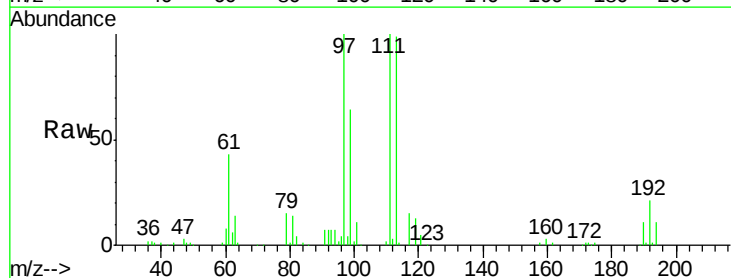
Manual Integrations
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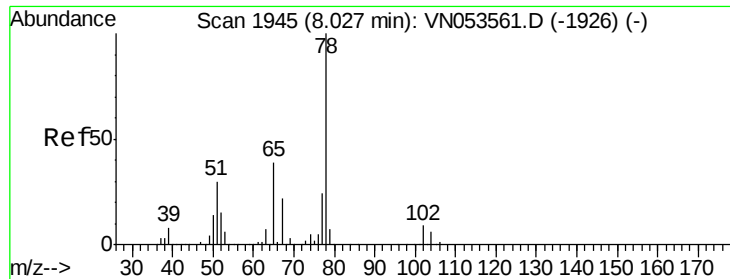
MMDadoda
2/12/2019 12:50:23 PM



#32
1,1,1-Trichloroethane
Concen: 18.553 ug/l
RT: 7.57 min Scan# 1803
Delta R.T. 0.00 min
Lab File: VN053696.D
Acq: 11 Feb 2019 11:25

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.1	52.0	78.0
61	42.2	34.4	51.6





#33

1,2-Dichloroethane-d4

Concen: 48.752 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN053696.D

Acq: 11 Feb 2019 11:25

Instrument :

MSVOA_N

ClientSampleId :

VN0211WBS01

Tot Ion: 65 Resp: 337677

Ion Ratio Lower Upper

65 100

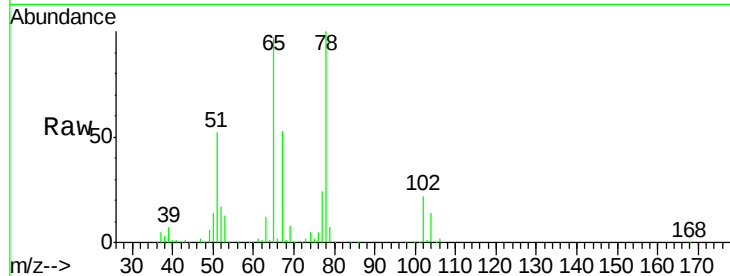
67 55.2 0.0 111.2

Manual Integrations

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Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

8.03

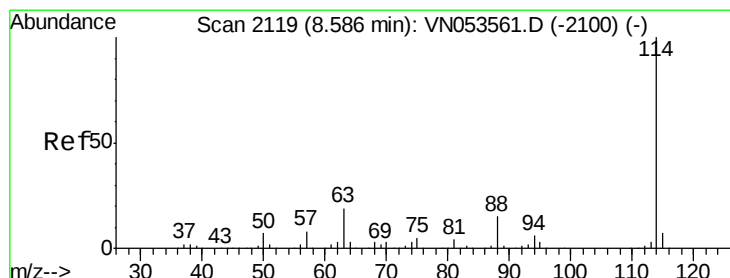
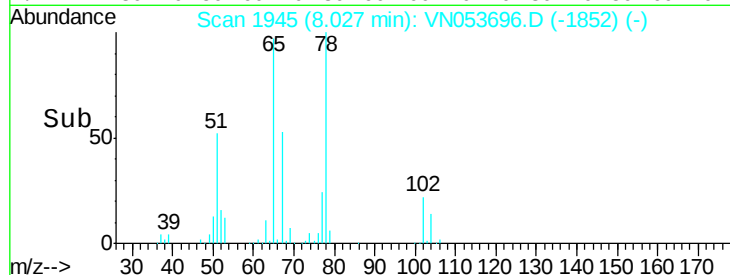
150000

100000

50000

0

Time--> 7.90 7.95 8.00 8.05 8.10



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.58 min Scan# 2118

Delta R.T. -0.00 min

Lab File: VN053696.D

Acq: 11 Feb 2019 11:25

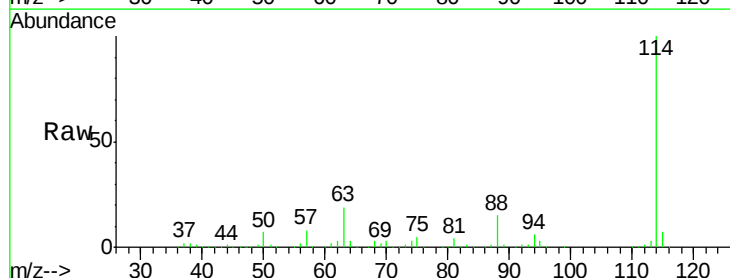
Tgt Ion: 114 Resp: 1029663

Ion Ratio Lower Upper

114 100

63 19.4 0.0 38.6

88 15.3 0.0 30.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0

8.58

600000

500000

400000

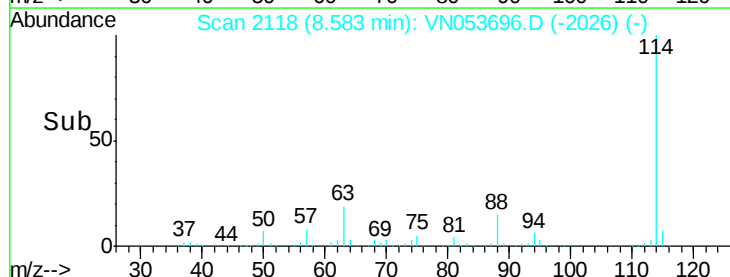
300000

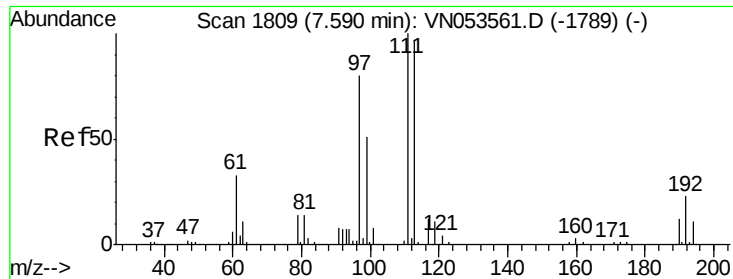
200000

100000

0

Time--> 8.50 8.60 8.70 8.80





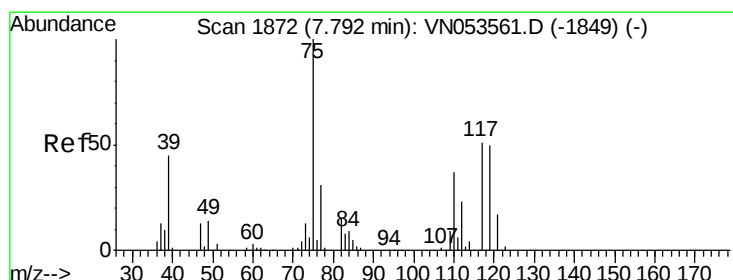
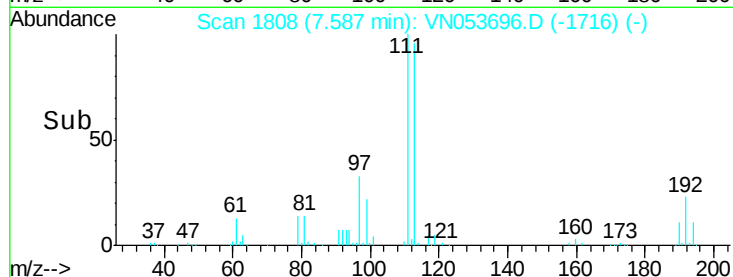
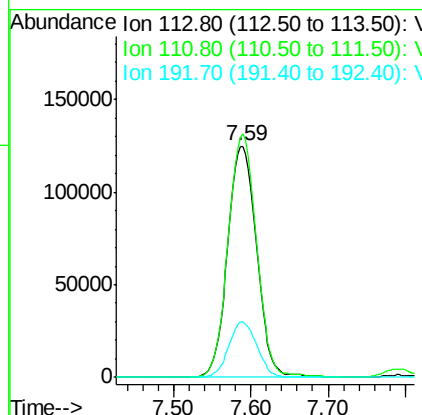
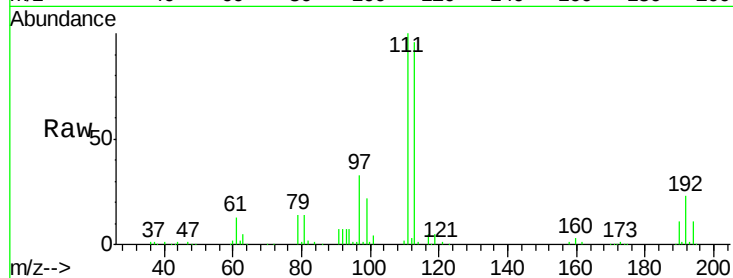
#35
Dibromofluoromethane
Concen: 49.996 ug/l
RT: 7.59 min Scan# 1808
Delta R.T. -0.00 min
Lab File: VN053696.D
Acq: 11 Feb 2019 11:25

Instrument :
MSVOA_N
ClientSampleId :
VN0211WBS01

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	103.1	81.1	121.7	
192	23.1	18.2	27.2	

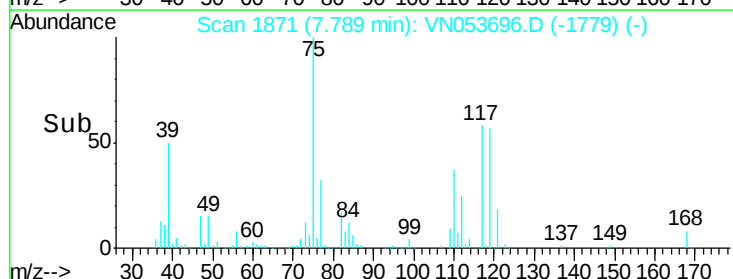
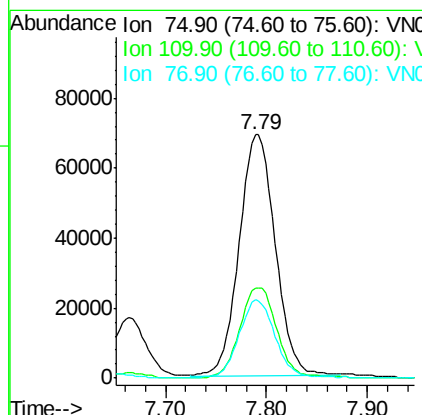
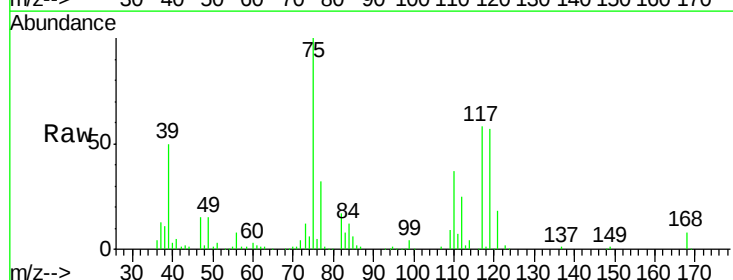
Manual Integrations
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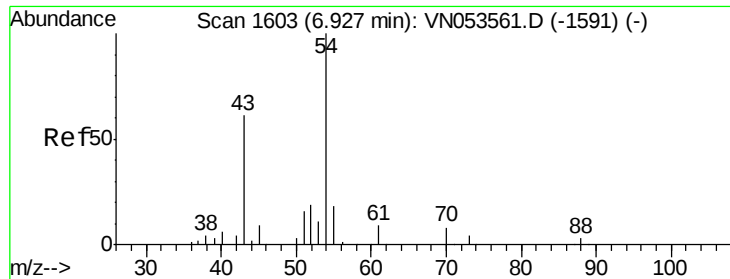
MMDadoda
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#36
1,1-Dichloropropene
Concen: 18.435 ug/l
RT: 7.79 min Scan# 1871
Delta R.T. -0.00 min
Lab File: VN053696.D
Acq: 11 Feb 2019 11:25

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
110	38.5	18.1	54.3	
77	32.5	25.1	37.7	





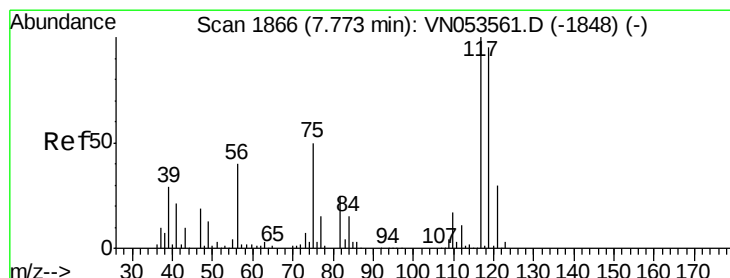
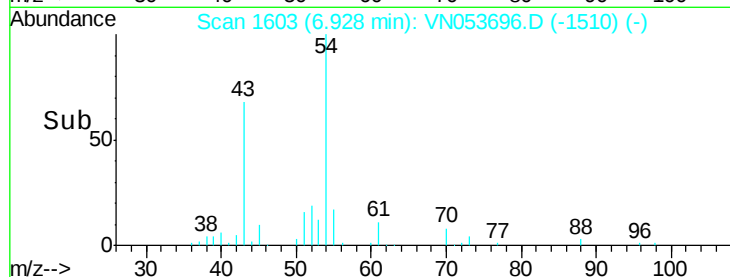
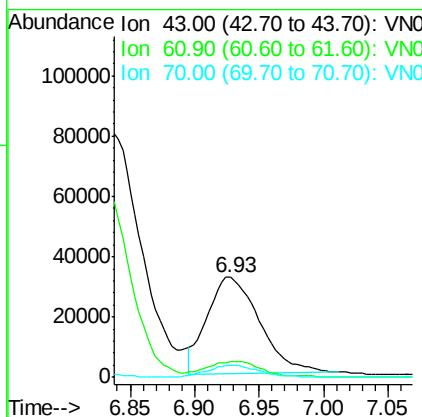
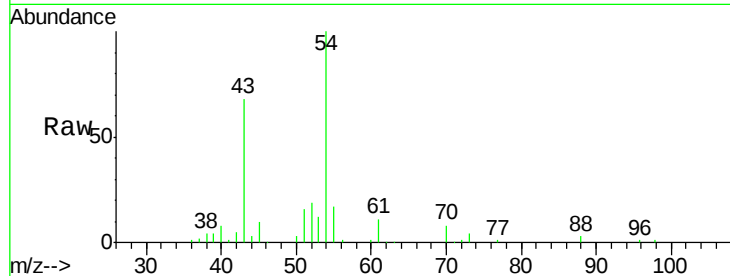
#37
Ethyl Acetate
Concen: 17.543 ug/l
RT: 6.93 min Scan# 1603
Delta R.T. 0.00 min
Lab File: VN053696.D
Acq: 11 Feb 2019 11:25

Instrument :
MSVOA_N
ClientSampled :
VN0211WBS01

Tot Ion	43	61	70
Resp	90940		
Ratio	100	16.5	12.3
Lower		11.8	8.6
Upper		17.6	12.8

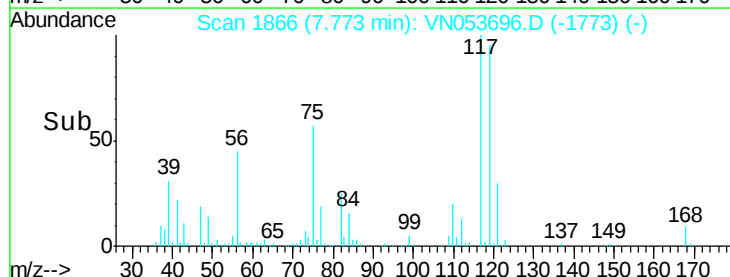
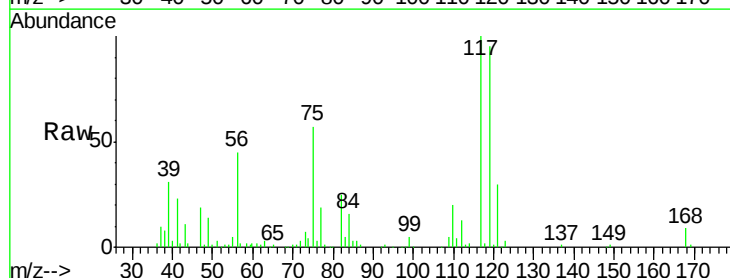
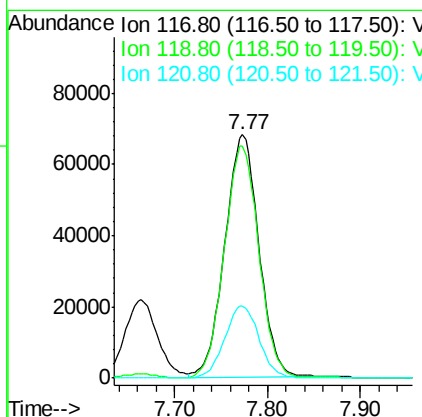
Manual Integrations
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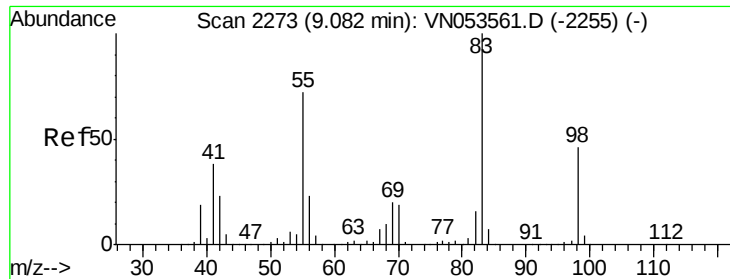
MMDadoda
2/12/2019 12:50:23 PM



#38
Carbon Tetrachloride
Concen: 18.610 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. 0.00 min
Lab File: VN053696.D
Acq: 11 Feb 2019 11:25

Tgt Ion	117	119	121
Resp	174006		
Ratio	100	95.5	29.9
Lower		77.2	24.6
Upper		115.8	37.0





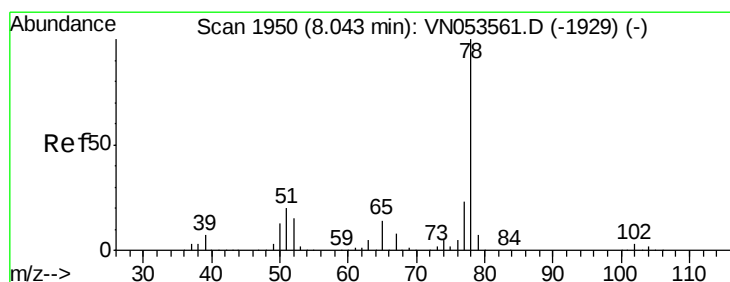
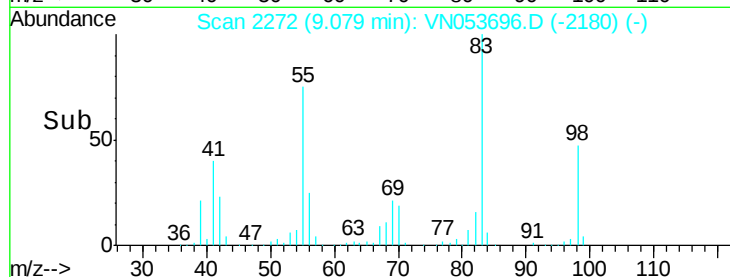
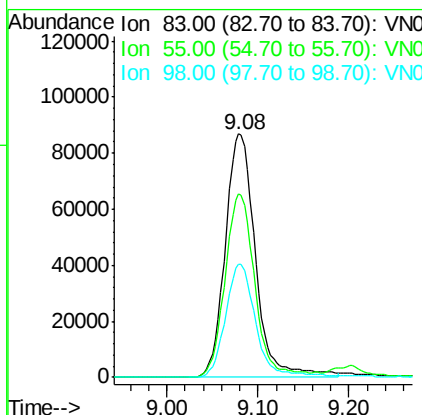
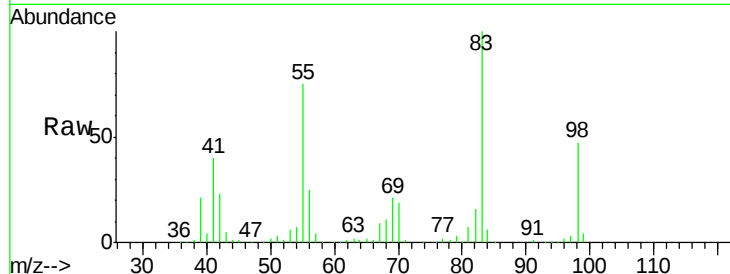
#39
Methvlcvclohexane
Concen: 18.292 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VN053696.D
Acq: 11 Feb 2019 11:25

Instrument :
MSVOA_N
ClientSampleId :
VN0211WBS01

Tot Ion	Ratio	Resp	Lower	Upper
83	100	201431		
55	75.4		60.1	90.1
98	46.7		36.6	55.0

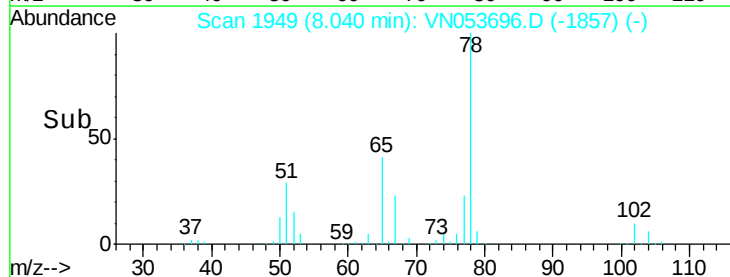
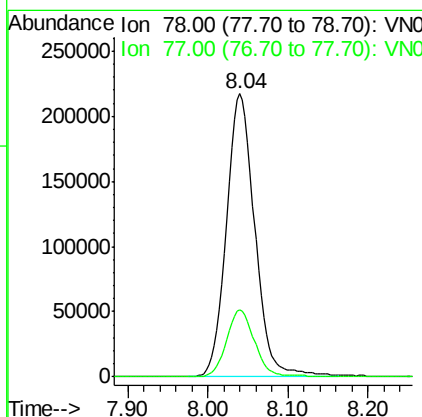
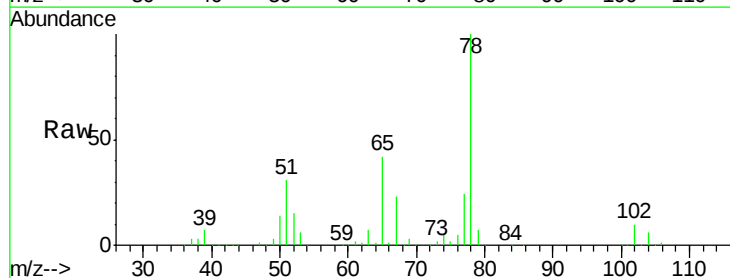
Manual Integrations
APPROVED

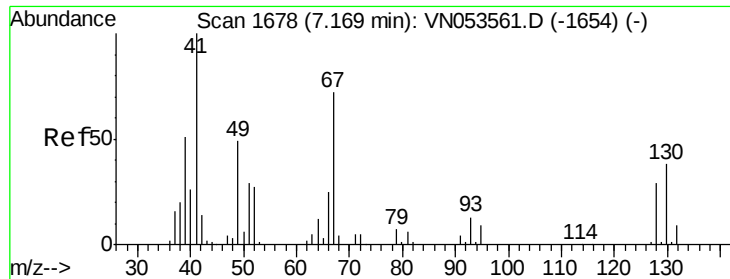
MMDadoda
2/12/2019 12:50:23 PM



#40
Benzene
Concen: 18.516 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. -0.00 min
Lab File: VN053696.D
Acq: 11 Feb 2019 11:25

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	529969		
77	23.6		18.8	28.2





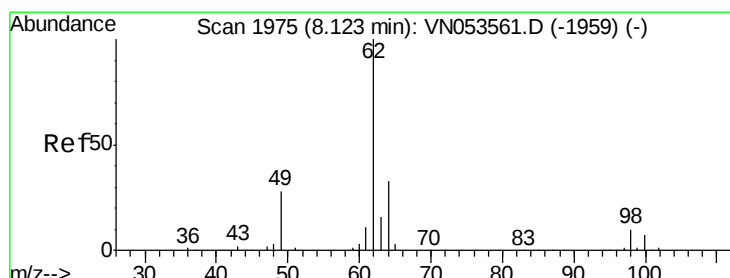
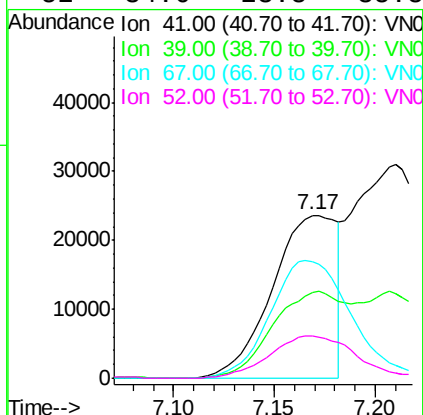
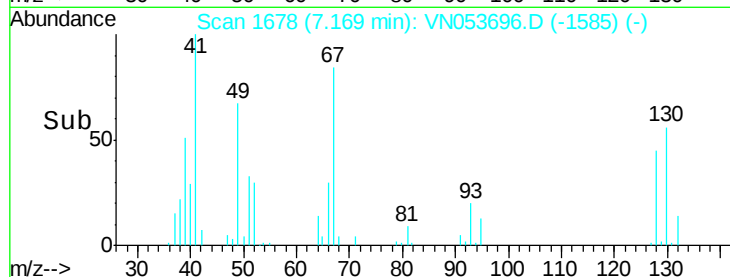
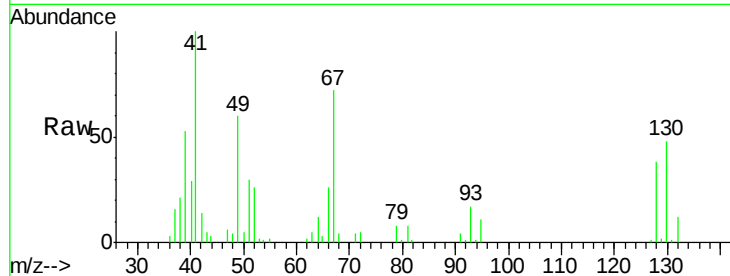
#41
Methacrylonitrile
Concen: 18.100 ug/l
RT: 7.17 min Scan# 1678
Delta R.T. 0.00 min
Lab File: VN053696.D
Acq: 11 Feb 2019 11:25

Instrument :
MSVOA_N
ClientSampleId :
VN0211WBS01

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	60.5	46.8	70.2	
67	91.5	63.0	94.6	
52	34.6	23.8	35.8	

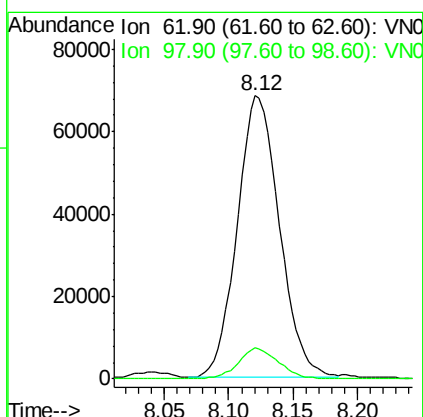
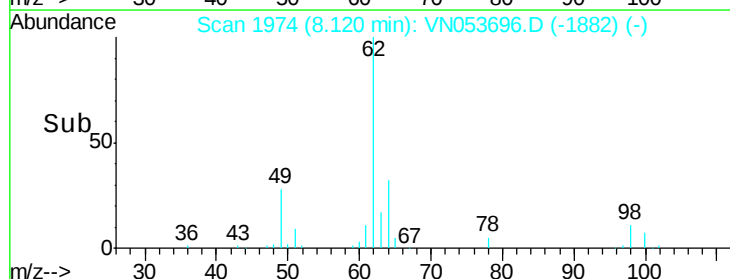
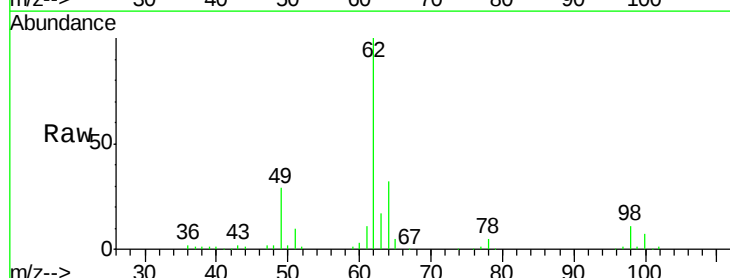
Manual Integrations
APPROVED

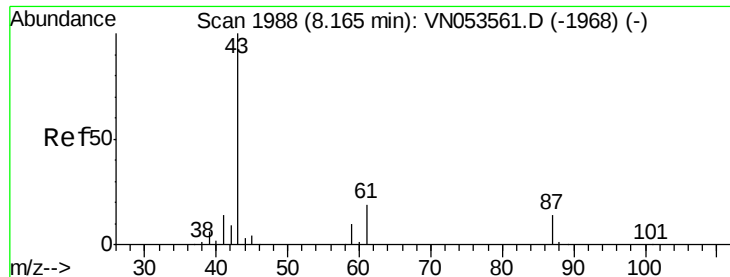
MMDadoda
2/12/2019 12:50:23 PM



#42
1,2-Dichloroethane
Concen: 18.335 ug/l
RT: 8.12 min Scan# 1974
Delta R.T. -0.00 min
Lab File: VN053696.D
Acq: 11 Feb 2019 11:25

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





#43

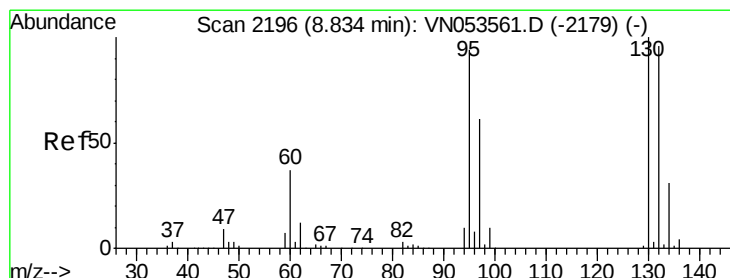
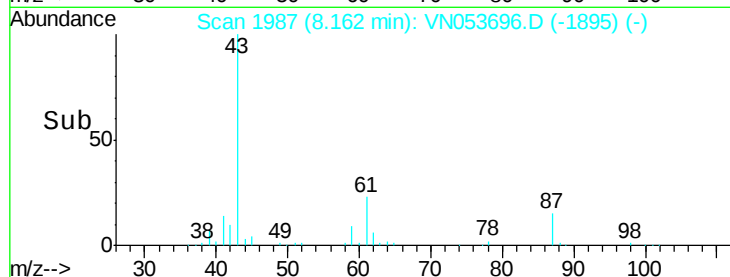
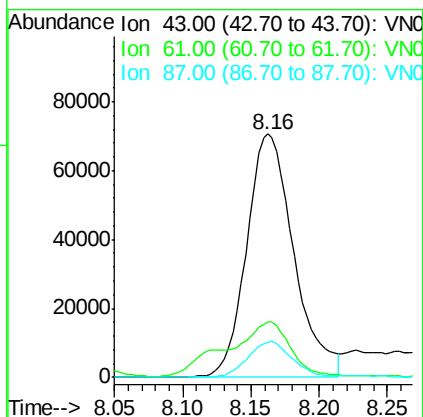
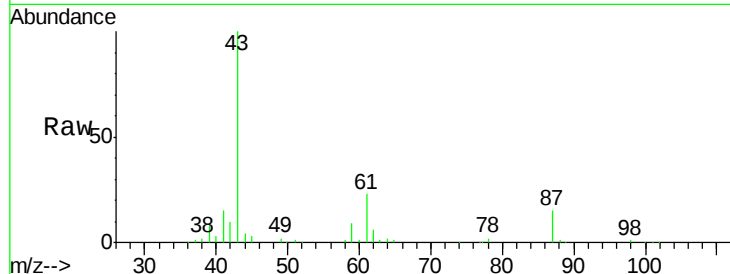
Isopropyl Acetate
 Concen: 16.866 ug/l
 RT: 8.16 min Scan# 1987
 Delta R.T. -0.00 min
 Lab File: VN053696.D
 Acq: 11 Feb 2019 11:25

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0211WBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	30.4	23.9	35.9
87	13.7	11.0	16.6

Manual Integrations
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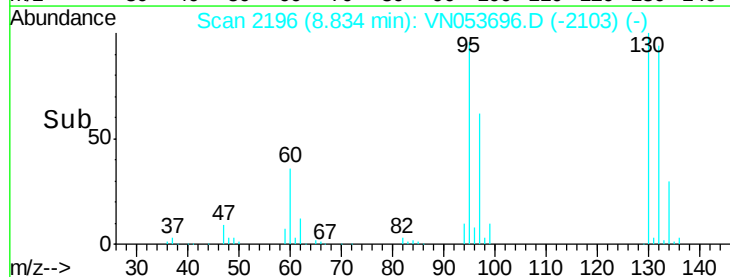
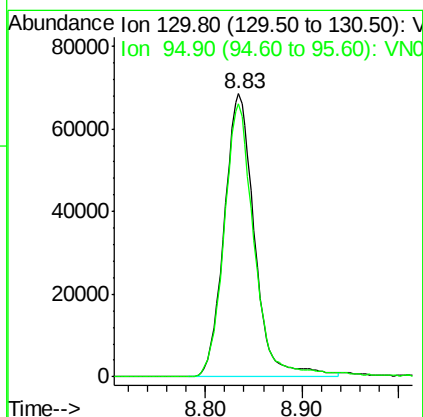
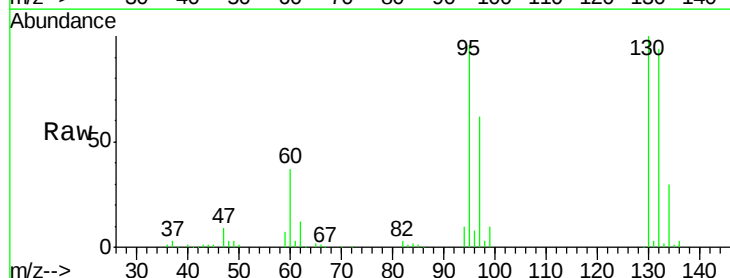
MMDadoda
 2/12/2019 12:50:23 PM



#44

Trichloroethene
 Concen: 18.263 ug/l
 RT: 8.83 min Scan# 2196
 Delta R.T. 0.00 min
 Lab File: VN053696.D
 Acq: 11 Feb 2019 11:25

Tgt Ion	Ratio	Lower	Upper
130	100		
95	96.4	0.0	191.4





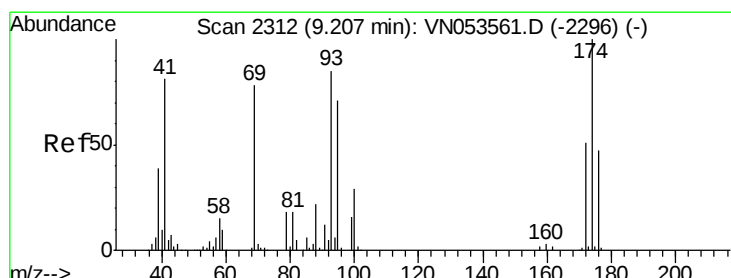
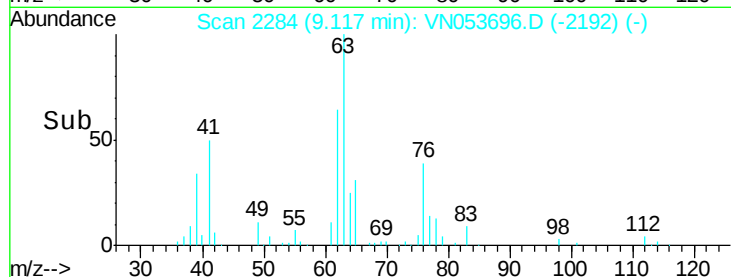
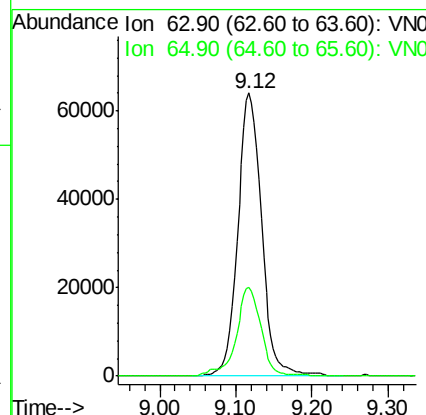
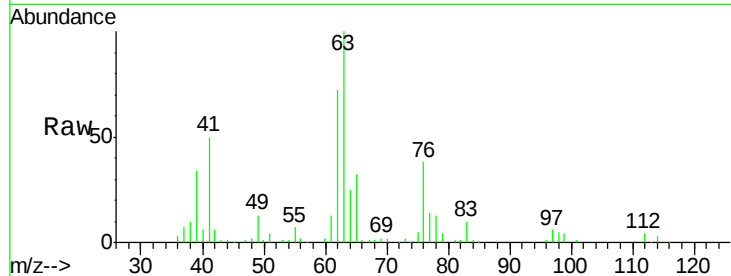
#45
 1,2-Dichloropropane
 Concen: 19.026 ug/l
 RT: 9.12 min Scan# 2284
 Delta R.T. -0.00 min
 Lab File: VN053696.D
 Acq: 11 Feb 2019 11:25

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0211WBS01

Tot Ion: 63 Resp: 139287
 Ion Ratio Lower Upper
 63 100
 65 31.6 25.0 37.4

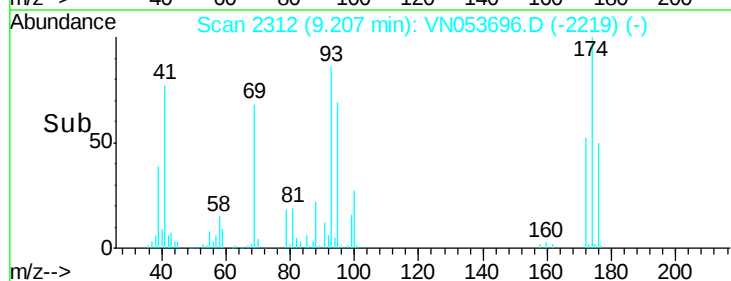
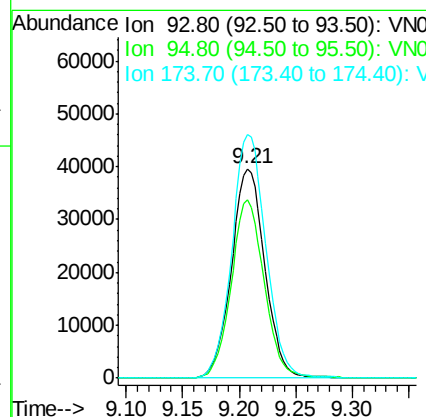
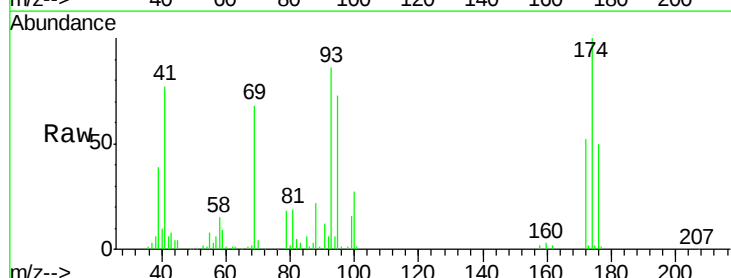
Manual Integrations
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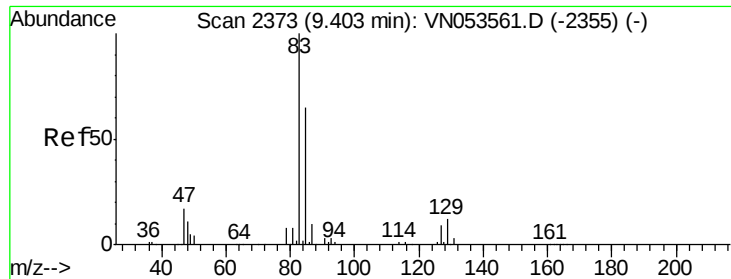
MMDadoda
 2/12/2019 12:50:23 PM



#46
 Dibromomethane
 Concen: 18.488 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. 0.00 min
 Lab File: VN053696.D
 Acq: 11 Feb 2019 11:25

Tgt Ion: 93 Resp: 81590
 Ion Ratio Lower Upper
 93 100
 95 84.1 67.3 100.9
 174 118.3 91.0 136.4





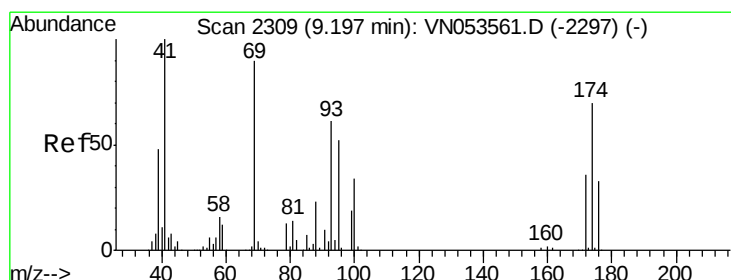
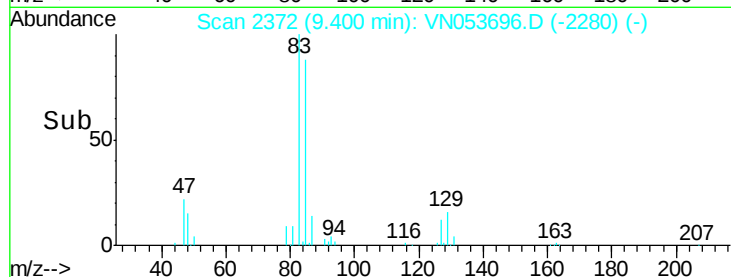
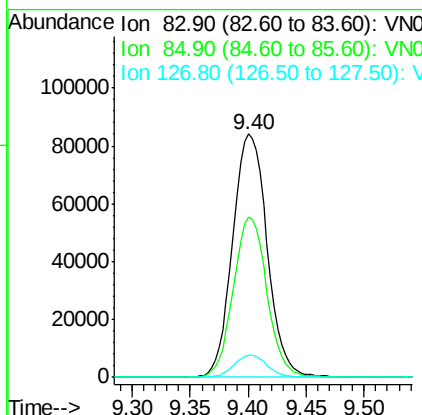
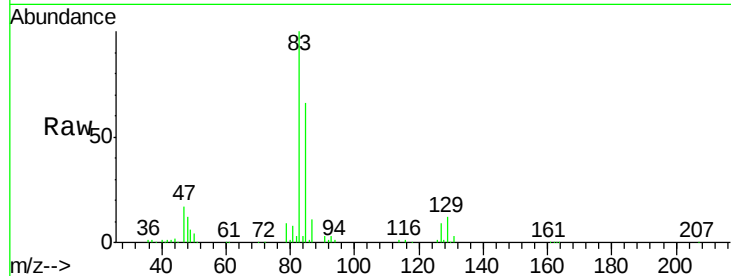
#47
Bromodichloromethane
Concen: 19.000 ug/l
RT: 9.40 min Scan# 2372
Delta R.T. -0.00 min
Lab File: VN053696.D
Acq: 11 Feb 2019 11:25

Instrument :
MSVOA_N
ClientSampleId :
VN0211WBS01

Tot Ion	83	Resp	174338
Ion Ratio	100	Lower	Upper
83	100		
85	65.9	51.0	76.6
127	9.0	7.0	10.6

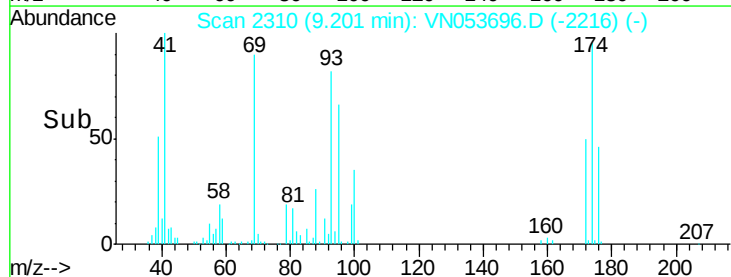
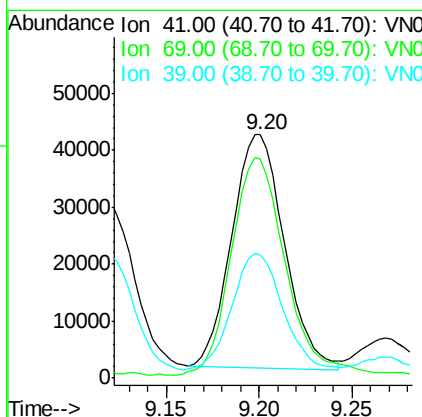
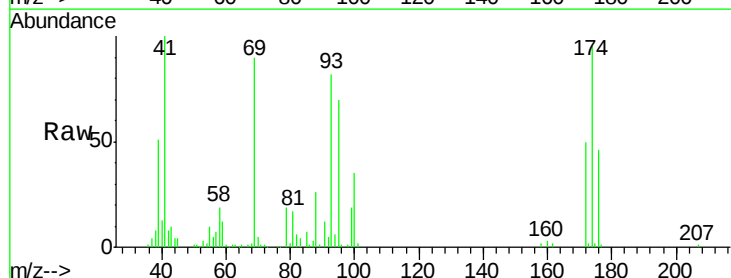
Manual Integrations
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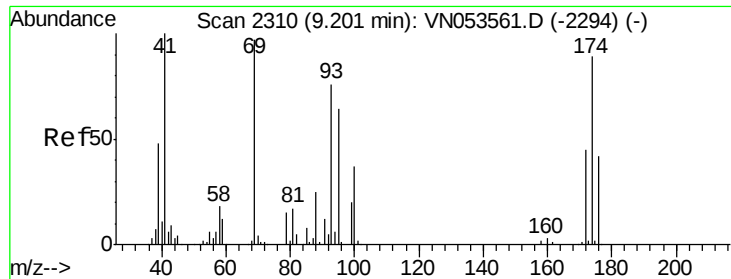
MMDadoda
2/12/2019 12:50:23 PM



#48
Methyl methacrylate
Concen: 16.873 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN053696.D
Acq: 11 Feb 2019 11:25

Tgt Ion	41	Resp	80633
Ion Ratio	100	Lower	Upper
41	100		
69	99.9	73.8	110.6
39	56.4	40.0	60.0





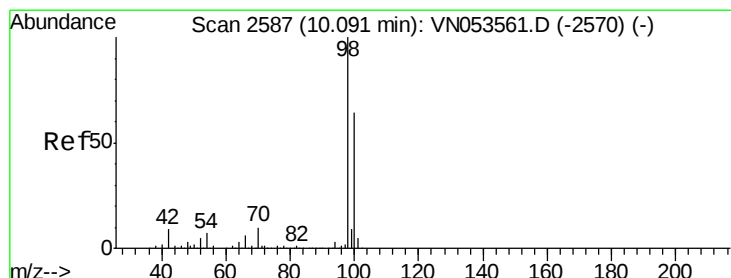
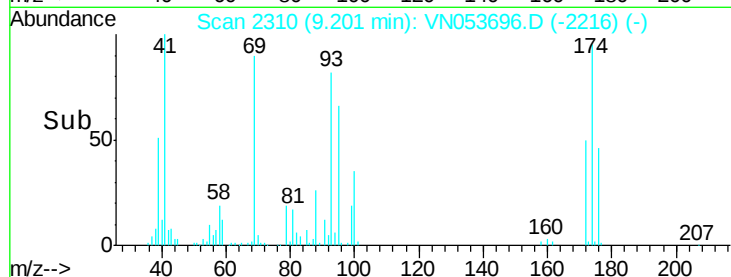
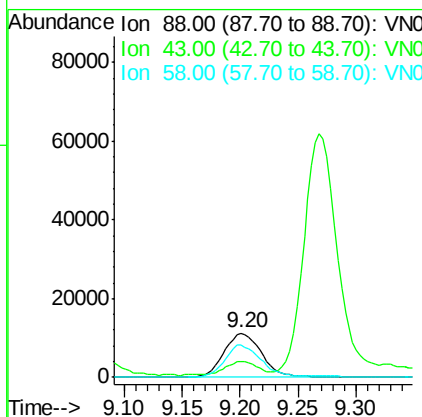
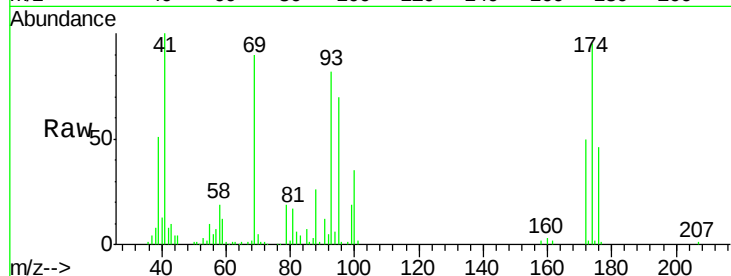
#49
1,4-Dioxane
Concen: 391.683 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN053696.D
Acq: 11 Feb 2019 11:25

Instrument :
MSVOA_N
ClientSampleId :
VN0211WBS01

Tot Ion	Ratio	Lower	Upper
88	100		
43	25.7	27.8	41.6#
58	70.0	56.5	84.7

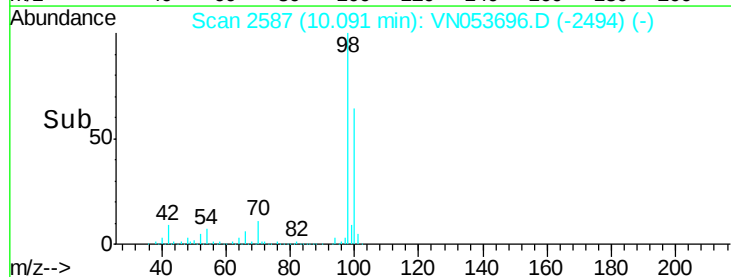
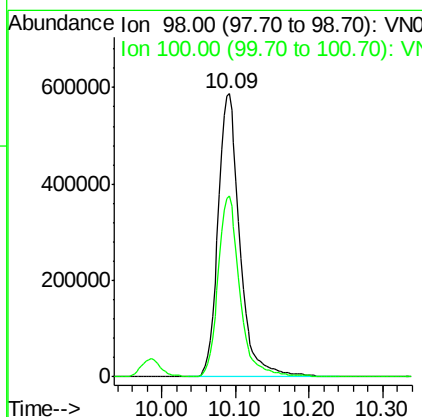
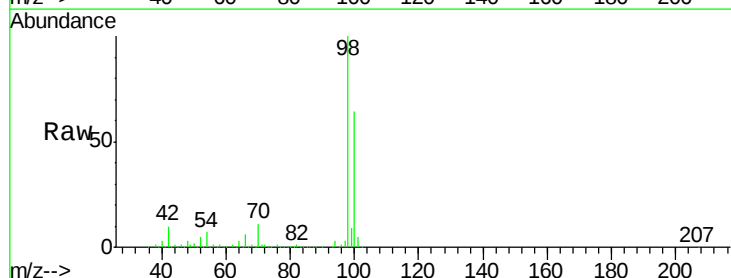
Manual Integrations
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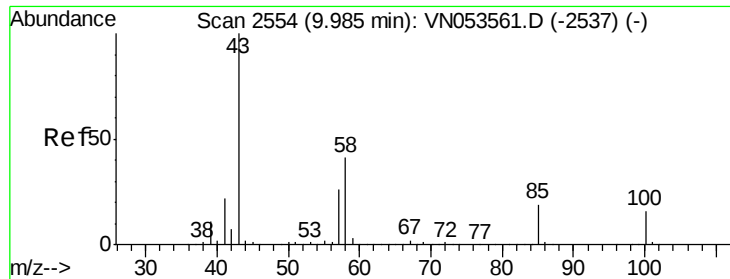
MMDadoda
2/12/2019 12:50:23 PM



#50
Toluene-d8
Concen: 49.163 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN053696.D
Acq: 11 Feb 2019 11:25

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.0	51.4	77.0





#51

4-Methyl-2-Pentanone

Concen: 91.513 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN053696.D

Acq: 11 Feb 2019 11:25

Instrument :

MSVOA_N

ClientSampleId :

VN0211WBS01

Tot Ion: 43 Resp: 450204

Ion Ratio Lower Upper

43 100

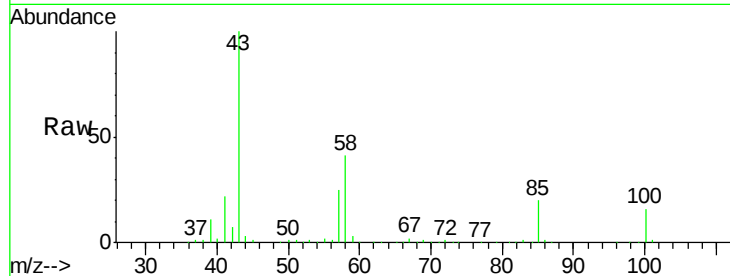
58 40.8 32.8 49.2

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

250000

200000

150000

100000

50000

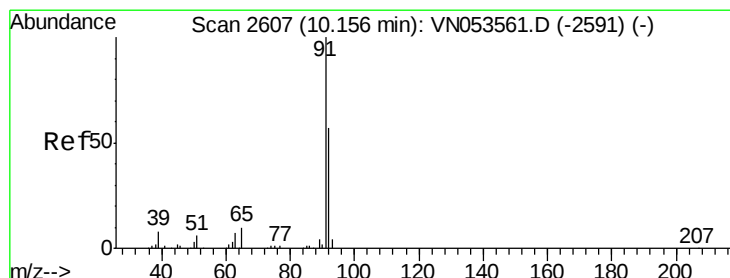
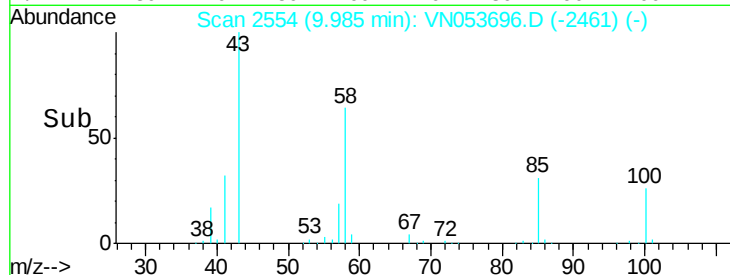
0

9.90

10.00

10.10

Time-->



#52

Toluene

Concen: 18.958 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN053696.D

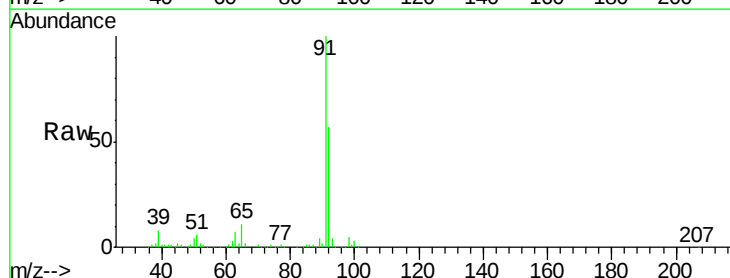
Acq: 11 Feb 2019 11:25

Tgt Ion: 92 Resp: 322048

Ion Ratio Lower Upper

92 100

91 174.1 139.9 209.9



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0

300000

250000

200000

150000

100000

50000

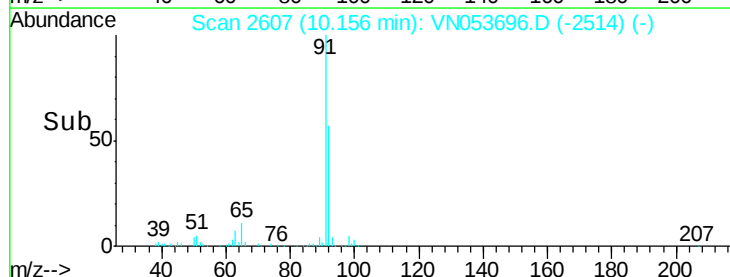
0

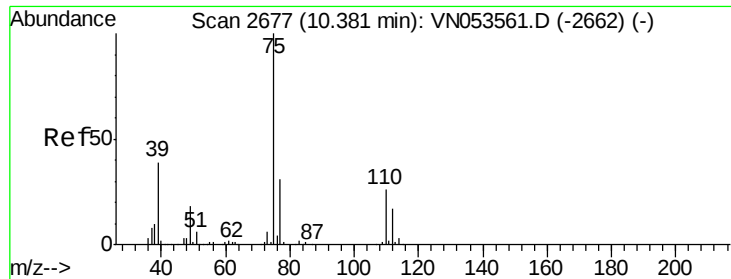
10.10

10.20

10.30

Time-->





#53

t-1,3-Dichloropropene

Concen: 17.938 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. 0.00 min

Lab File: VN053696.D

Acq: 11 Feb 2019 11:25

Instrument :

MSVOA_N

ClientSampleId :

VN0211WBS01

Tot Ion: 75 Resp: 164821

Ion Ratio Lower Upper

75 100

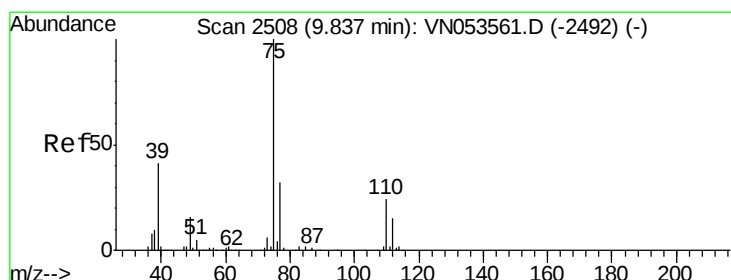
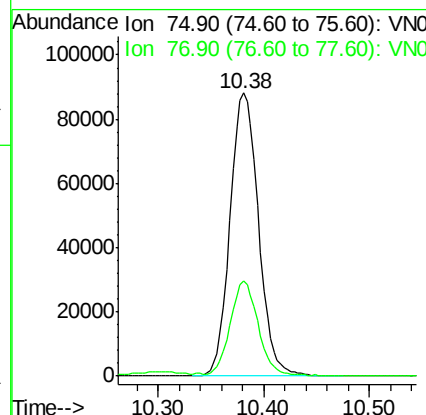
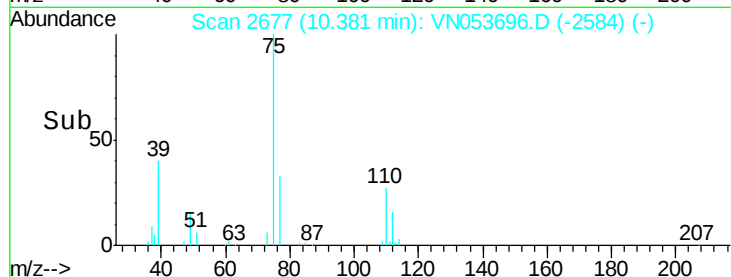
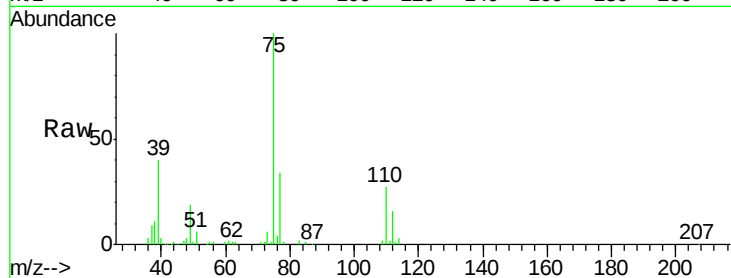
77 33.3 25.5 38.3

Manual Integrations

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#54

cis-1,3-Dichloropropene

Concen: 18.681 ug/l

RT: 9.84 min Scan# 2508

Delta R.T. 0.00 min

Lab File: VN053696.D

Acq: 11 Feb 2019 11:25

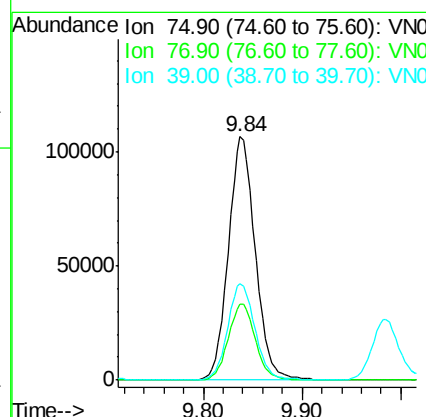
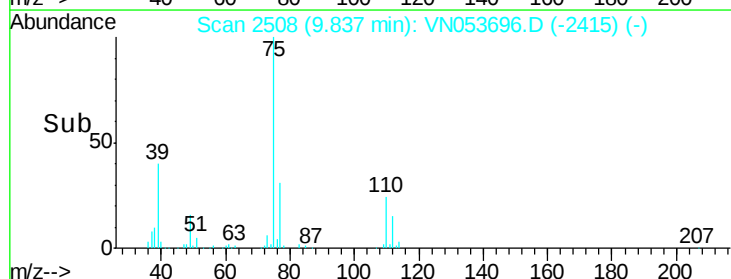
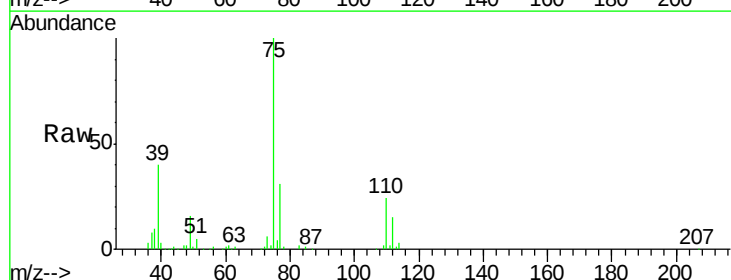
Tgt Ion: 75 Resp: 203401

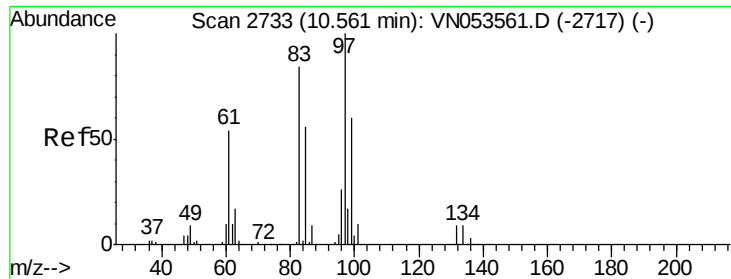
Ion Ratio Lower Upper

75 100

77 31.0 25.8 38.6

39 39.6 33.4 50.0





#55

1,1,2-Trichloroethane

Concen: 19.166 ug/l

RT: 10.56 min Scan# 2733

Delta R.T. 0.00 min

Lab File: VN053696.D

Acq: 11 Feb 2019 11:25

Instrument :

MSVOA_N

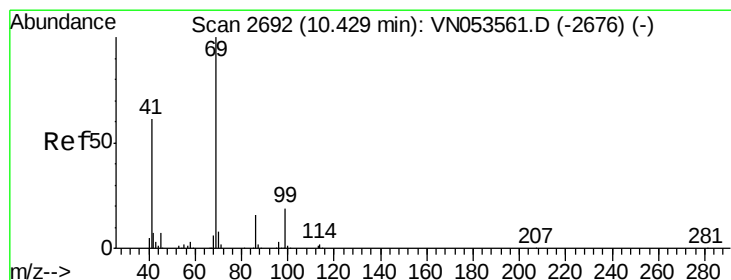
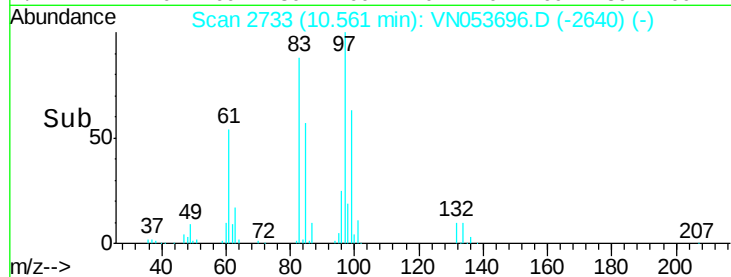
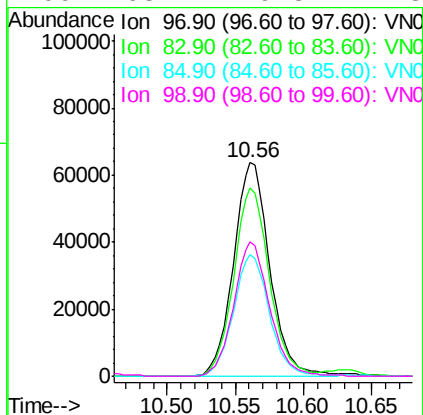
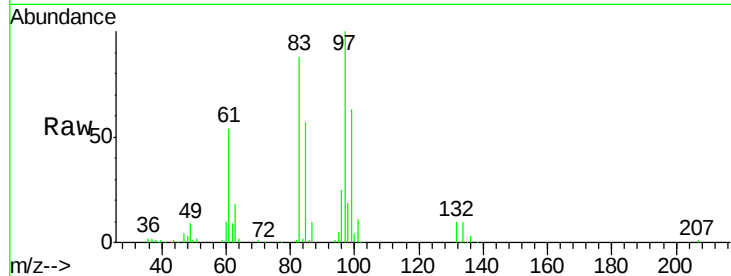
ClientSampled :

VN0211WBS01

Tot Ion:	97	Resp:	117318
Ion	Ratio	Lower	Upper
97	100		
83	88.3	70.1	105.1
85	56.7	45.4	68.0
99	63.1	49.8	74.8

Manual Integrations
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#56

Ethyl methacrylate

Concen: 17.470 ug/l

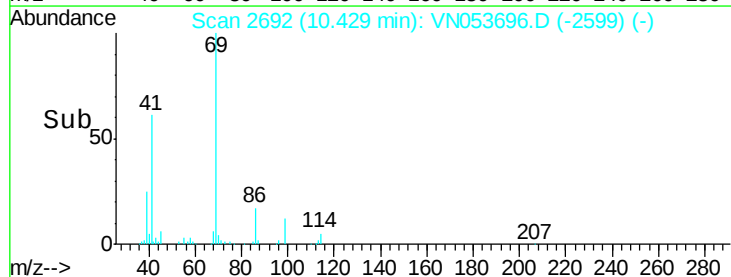
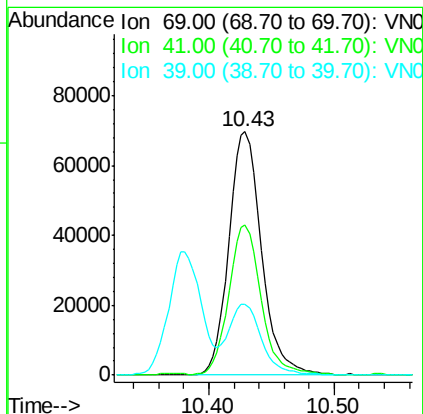
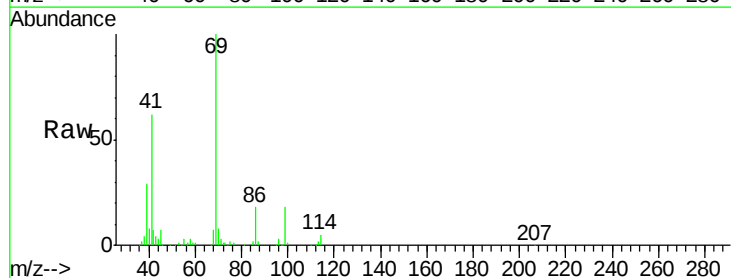
RT: 10.43 min Scan# 2692

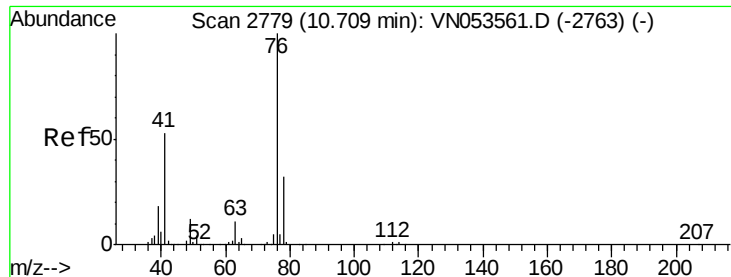
Delta R.T. 0.00 min

Lab File: VN053696.D

Acq: 11 Feb 2019 11:25

Tgt Ion:	69	Resp:	126508
Ion	Ratio	Lower	Upper
69	100		
41	59.9	49.4	74.0
39	29.6	23.3	34.9





#57

1,3-Dichloropropane

Concen: 18.682 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN053696.D

Acq: 11 Feb 2019 11:25

Instrument :

MSVOA_N

ClientSampled :

VN0211WBS01

Tot Ion: 76 Resp: 195446

Ion Ratio Lower Upper

76 100

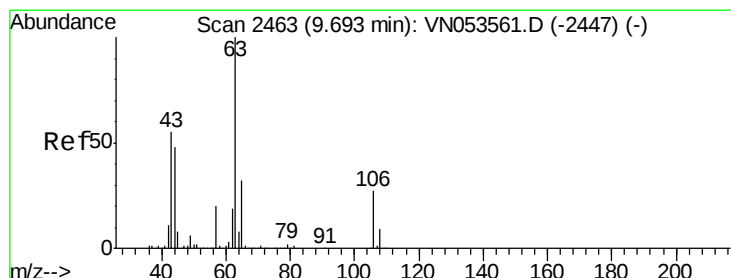
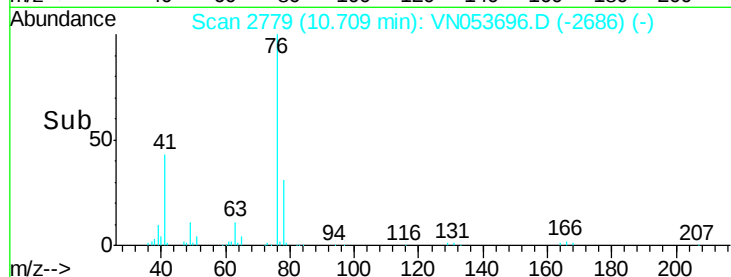
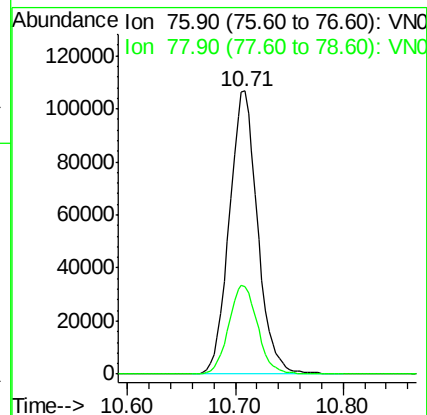
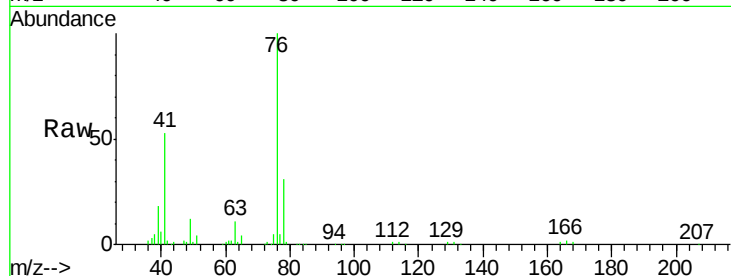
78 32.1 25.6 38.4

Manual Integrations

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#58

2-Chloroethyl Vinyl ether

Concen: 81.248 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN053696.D

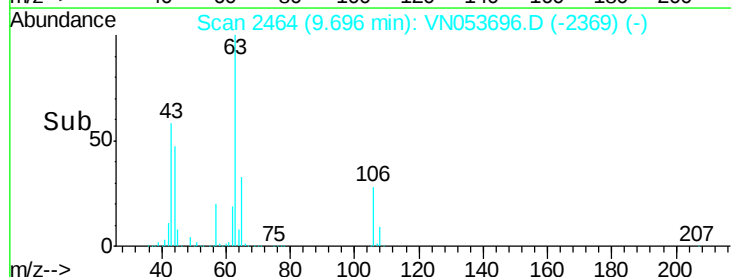
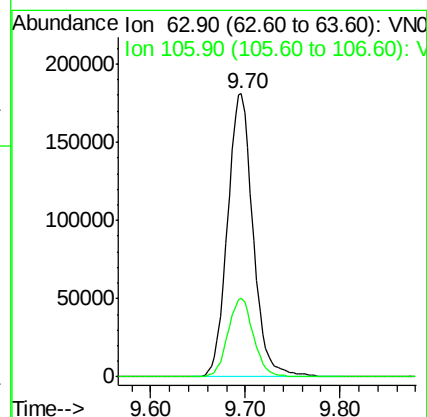
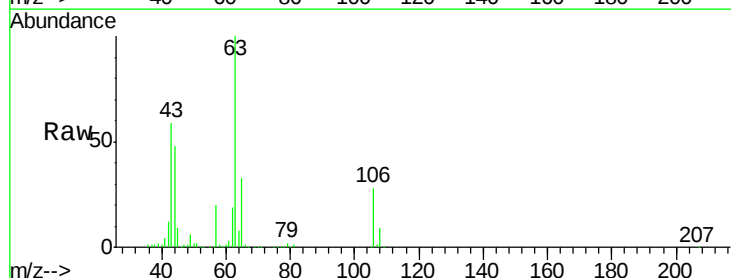
Acq: 11 Feb 2019 11:25

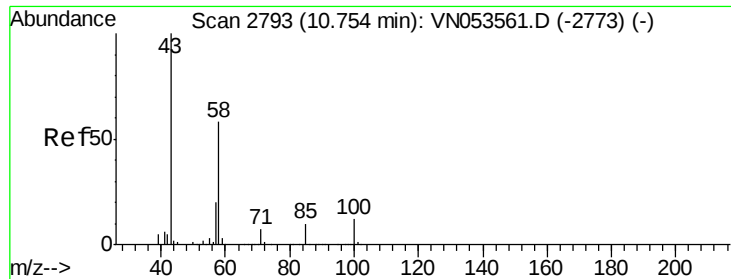
Tgt Ion: 63 Resp: 339800

Ion Ratio Lower Upper

63 100

106 27.7 21.5 32.3





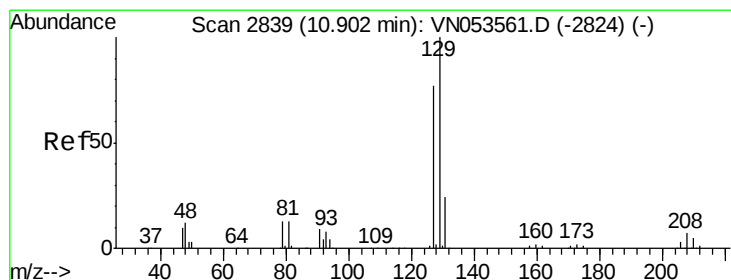
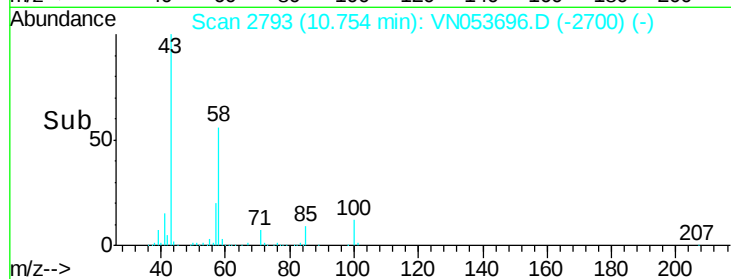
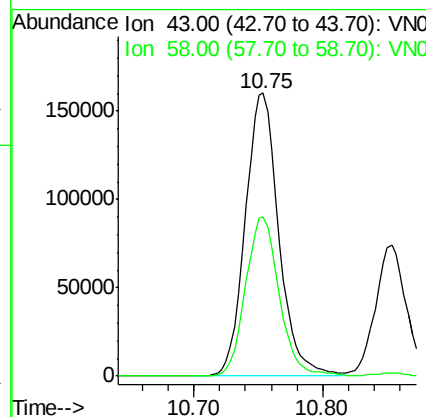
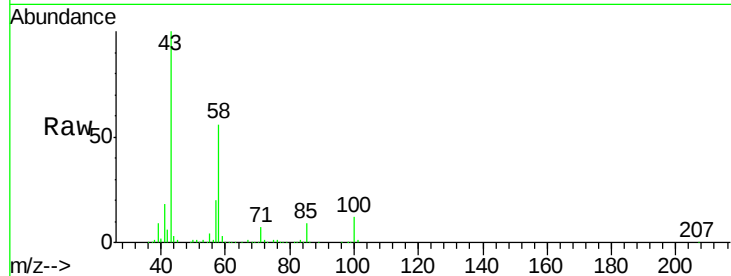
#59
2-Hexanone
Concen: 86.273 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN053696.D
Acq: 11 Feb 2019 11:25

Instrument :
MSVOA_N
ClientSampleId :
VN0211WBS01

Tot Ion	43	Resp	288128
Ion	Ratio	Lower	Upper
43	100		
58	57.0	28.6	85.8

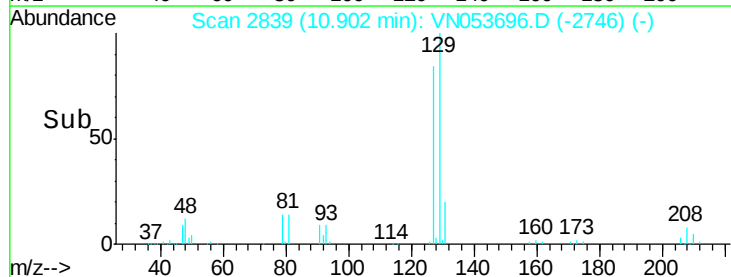
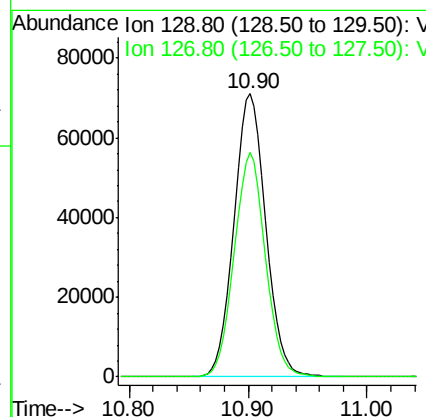
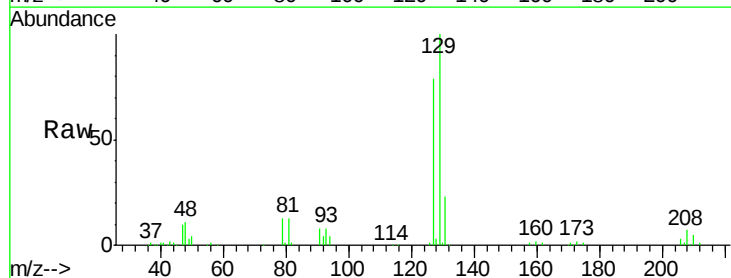
Manual Integrations
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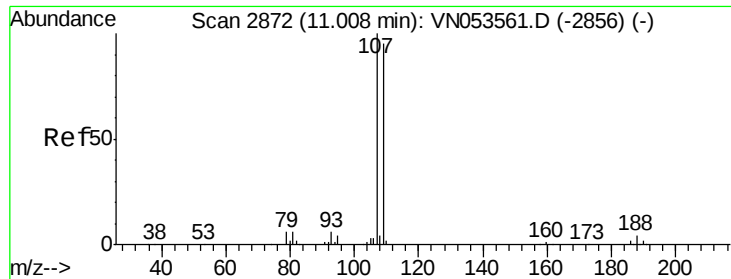
MMDadoda
2/12/2019 12:50:23 PM



#60
Dibromochloromethane
Concen: 19.098 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN053696.D
Acq: 11 Feb 2019 11:25

Tgt Ion	129	Resp	131829
Ion	Ratio	Lower	Upper
129	100		
127	77.5	38.6	115.8





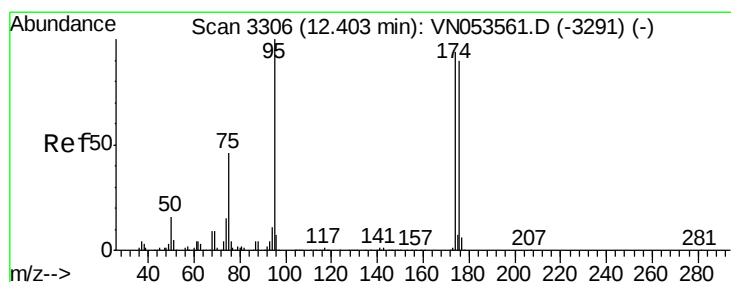
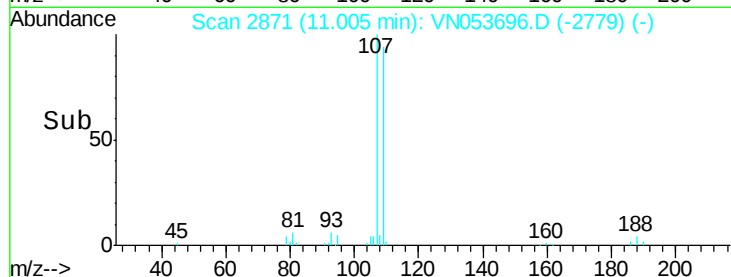
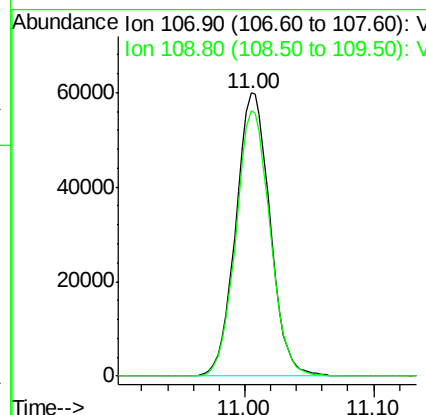
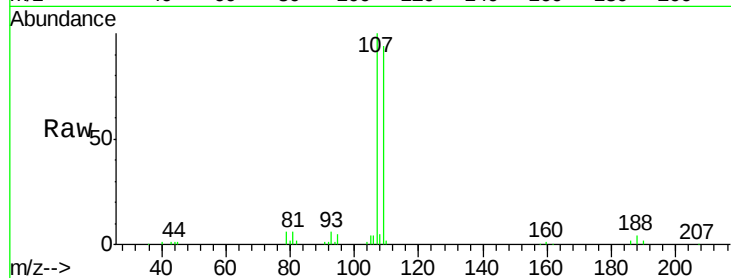
#61
 1,2-Dibromoethane
 Concen: 18.209 ug/l
 RT: 11.00 min Scan# 2871
 Delta R.T. -0.00 min
 Lab File: VN053696.D
 Acq: 11 Feb 2019 11:25

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0211WBS01

Tot Ion	Ratio	Lower	Upper
107	100		
109	94.0	75.7	113.5

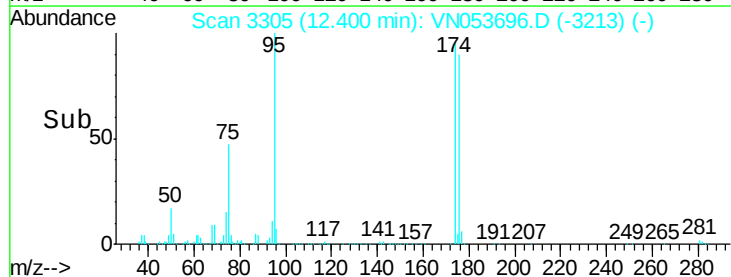
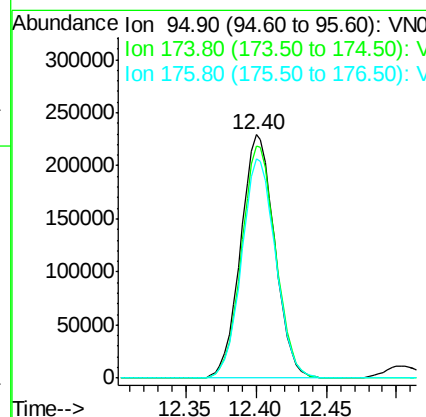
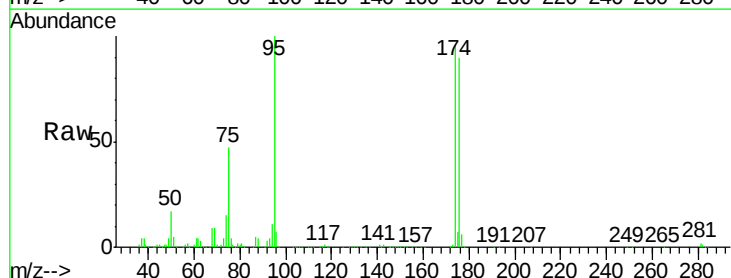
Manual Integrations
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#62
 4-Bromofluorobenzene
 Concen: 47.542 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.00 min
 Lab File: VN053696.D
 Acq: 11 Feb 2019 11:25

Tgt Ion	Ratio	Lower	Upper
95	100		
174	95.7	0.0	183.2
176	90.3	0.0	177.4





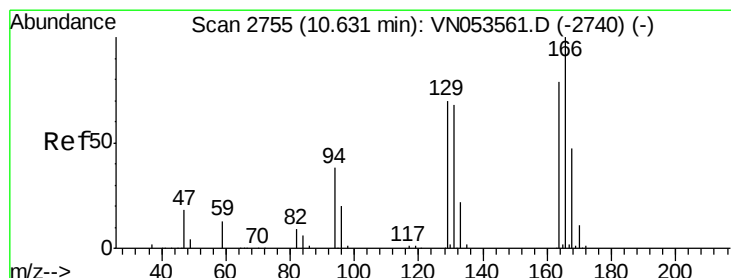
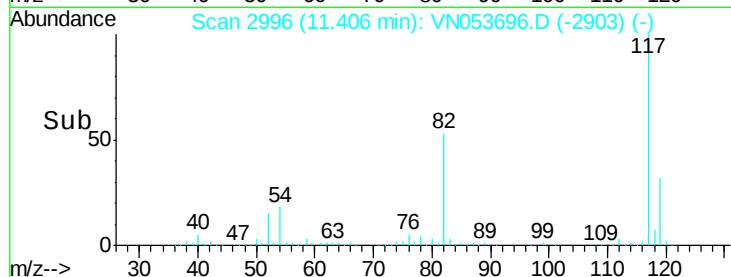
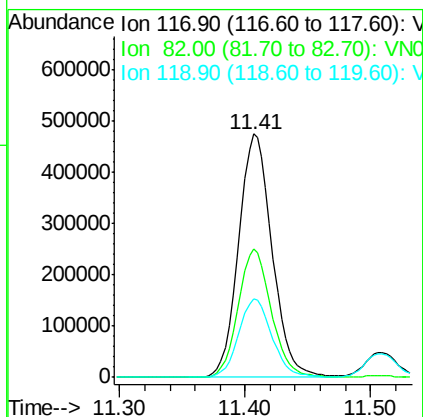
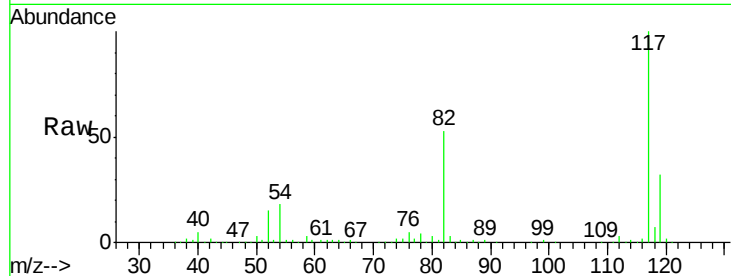
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN053696.D
Acq: 11 Feb 2019 11:25

Instrument :
MSVOA_N
ClientSampleId :
VN0211WBS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.7	42.9	64.3
119	32.3	26.0	39.0

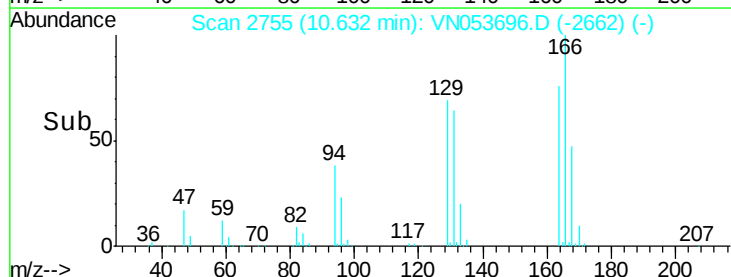
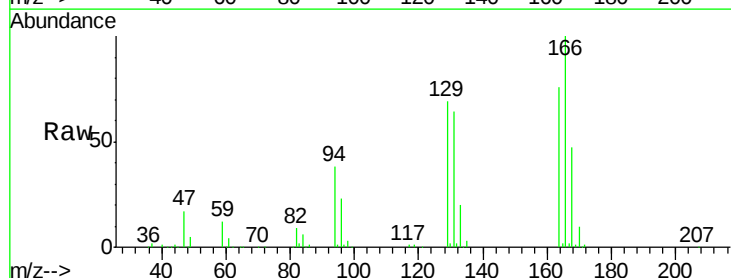
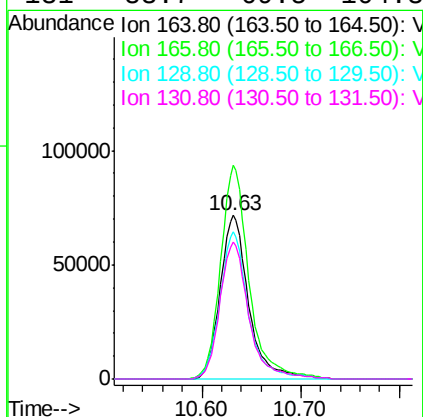
Manual Integrations
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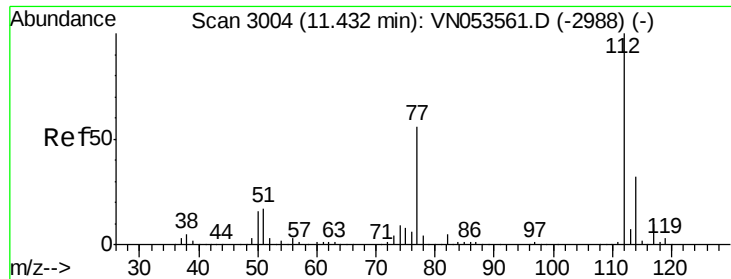
MMDadoda
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#64
Tetrachloroethene
Concen: 19.265 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN053696.D
Acq: 11 Feb 2019 11:25

Tgt Ion	Ratio	Lower	Upper
164	100		
166	130.7	102.2	153.4
129	90.4	72.6	109.0
131	83.7	69.5	104.3





#65

Chlorobenzene

Concen: 18.693 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. 0.00 min

Lab File: VN053696.D

Acq: 11 Feb 2019 11:25

Instrument :

MSVOA_N

ClientSampleId :

VN0211WBS01

Tot Ion:112 Resp: 350045

Ion Ratio Lower Upper

112 100

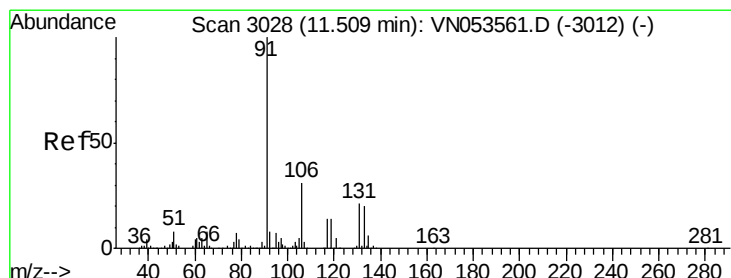
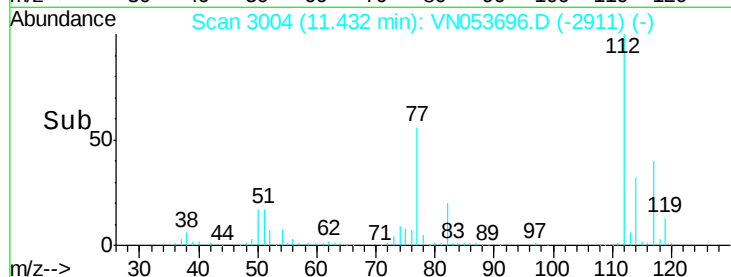
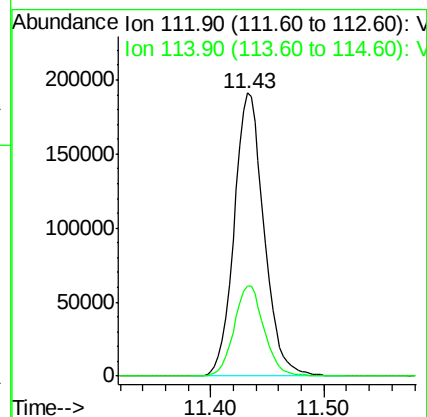
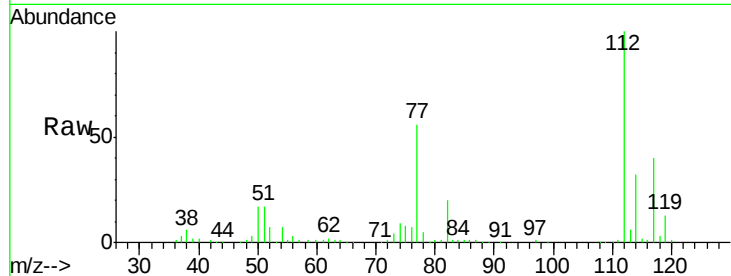
114 32.0 25.3 37.9

Manual Integrations

APPROVED

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#66

1,1,1,2-Tetrachloroethane

Concen: 19.445 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN053696.D

Acq: 11 Feb 2019 11:25

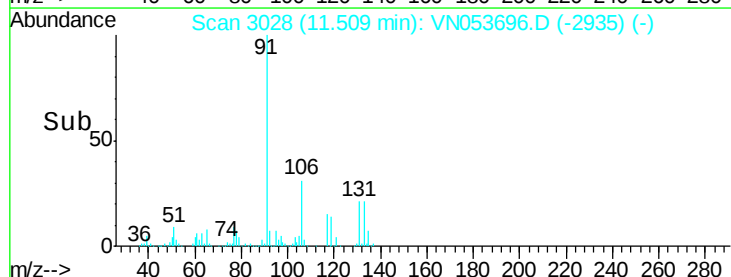
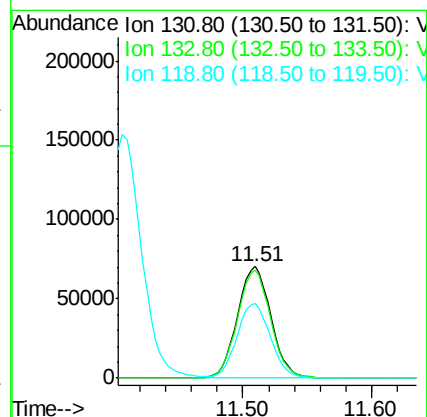
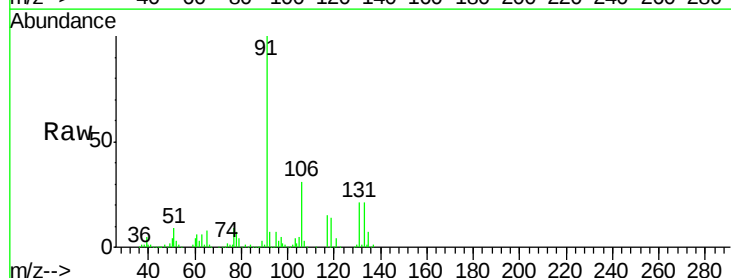
Tgt Ion:131 Resp: 127170

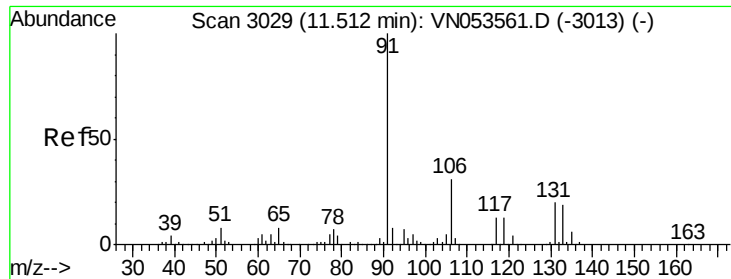
Ion Ratio Lower Upper

131 100

133 96.0 48.0 144.0

119 66.9 33.5 100.5





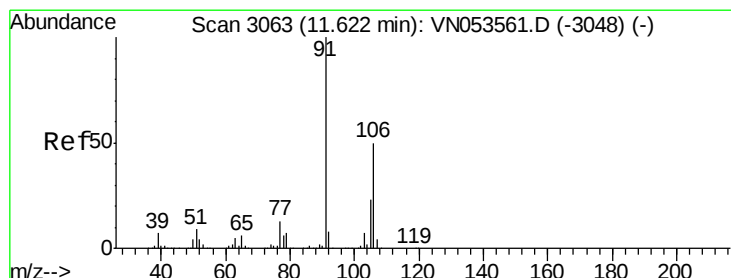
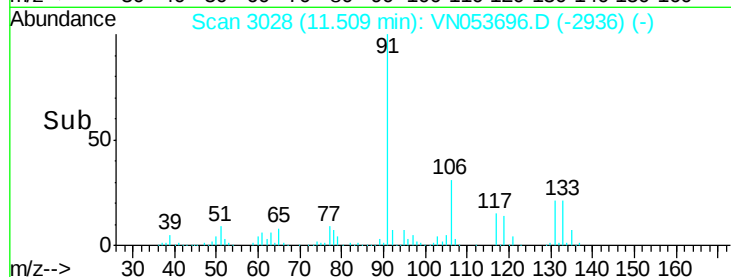
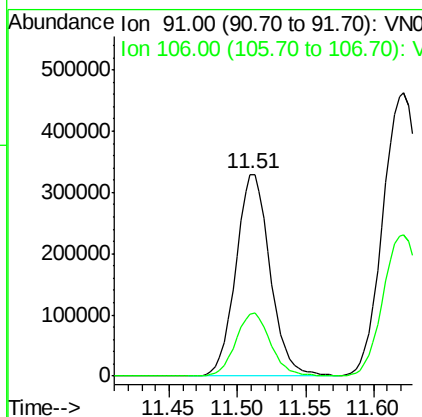
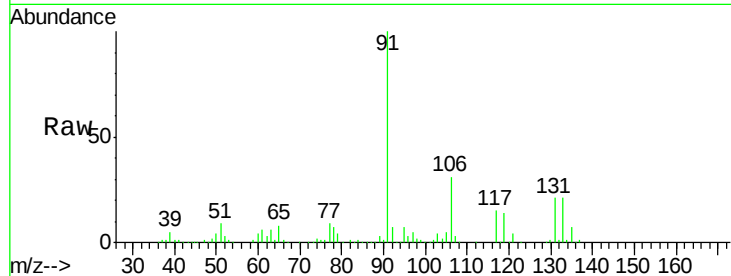
#67
Ethyl Benzene
Concen: 18.682 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN053696.D
Acq: 11 Feb 2019 11:25

Instrument :
MSVOA_N
ClientSampled :
VN0211WBS01

Tot Ion: 91 Resp: 574685
Ion Ratio Lower Upper
91 100
106 31.0 25.0 37.6

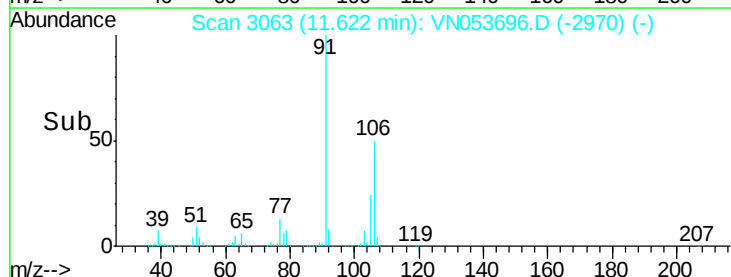
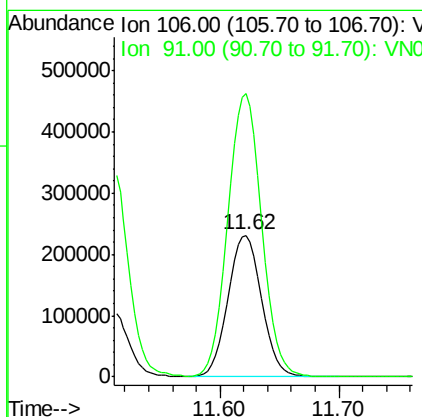
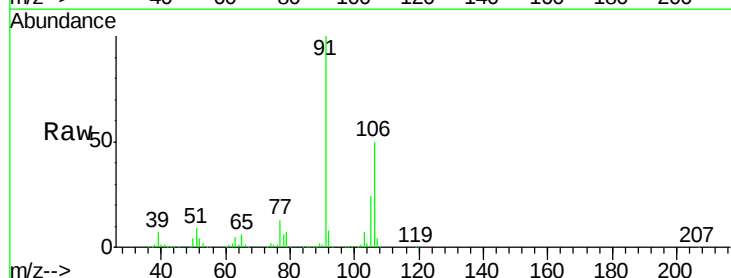
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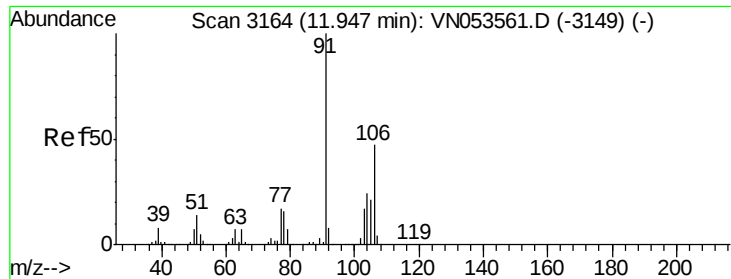
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#68
m/p-Xylenes
Concen: 38.572 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN053696.D
Acq: 11 Feb 2019 11:25

Tgt Ion: 106 Resp: 452849
Ion Ratio Lower Upper
106 100
91 200.8 161.4 242.2





#69

o-Xylene

Concen: 19.331 ug/l

RT: 11.95 min Scan# 3164

Delta R.T. 0.00 min

Lab File: VN053696.D

Acq: 11 Feb 2019 11:25

Instrument :

MSVOA_N

ClientSampleId :

VN0211WBS01

Tot Ion:106 Resp: 219253

Ion Ratio Lower Upper

106 100

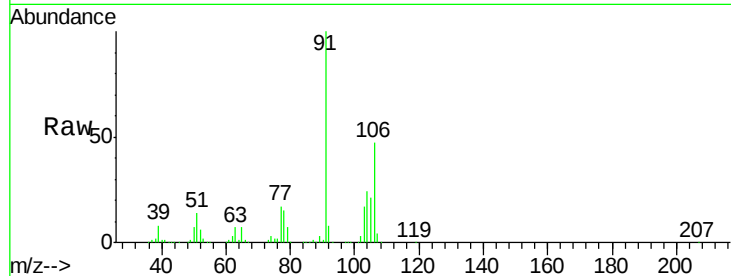
91 211.1 106.9 320.8

Manual Integrations

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Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN0

300000

250000

200000

150000

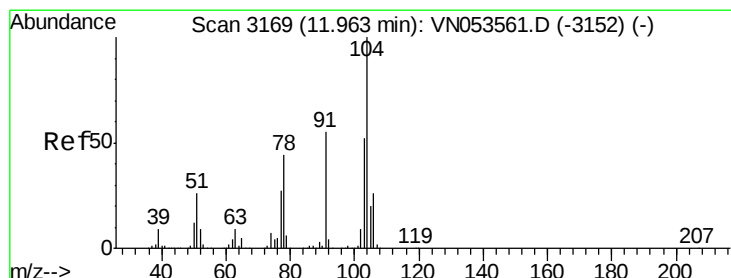
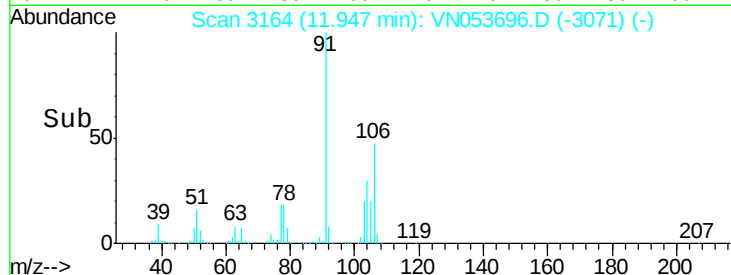
100000

50000

0

11.85 11.90 11.95 12.00

Time-->



#70

Styrene

Concen: 19.037 ug/l

RT: 11.96 min Scan# 3169

Delta R.T. 0.00 min

Lab File: VN053696.D

Acq: 11 Feb 2019 11:25

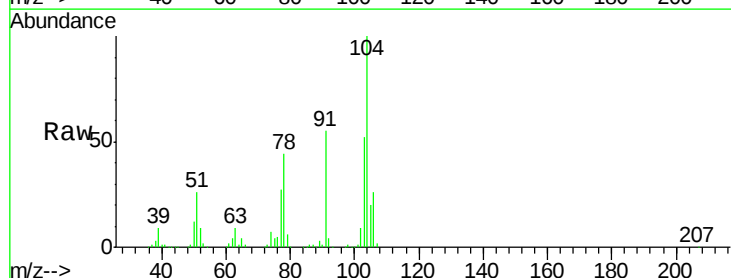
Tgt Ion:104 Resp: 349967

Ion Ratio Lower Upper

104 100

78 47.9 38.2 57.2

103 55.7 44.4 66.6



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VN0

Ion 103.00 (102.70 to 103.70): V

250000

200000

150000

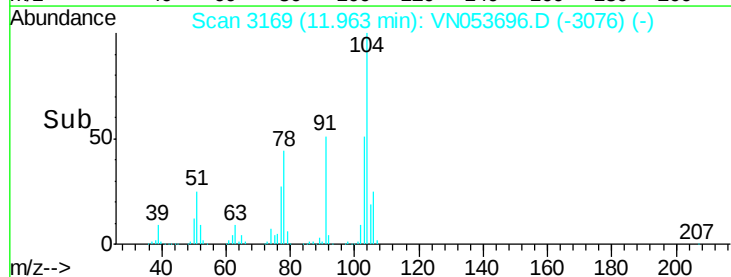
100000

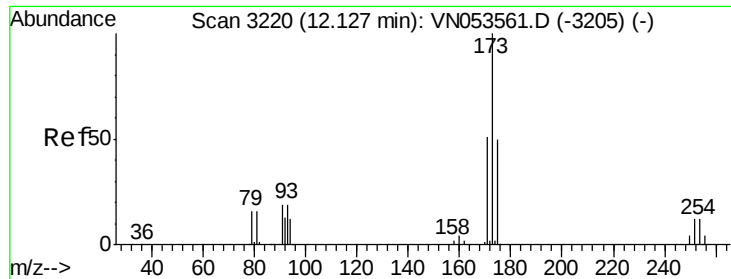
50000

0

11.90 11.95 12.00

Time-->





#71

Bromoform

Concen: 19.262 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN053696.D

Acq: 11 Feb 2019 11:25

Instrument :

MSVOA_N

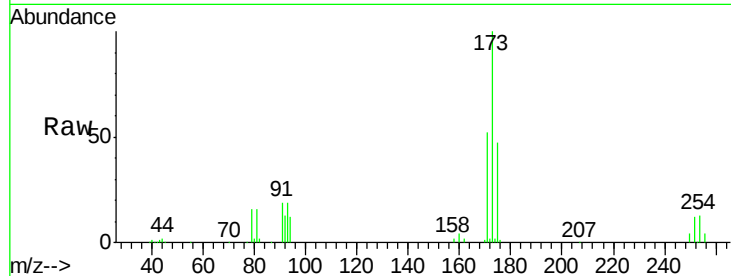
ClientSampleId :

VN0211WBS01

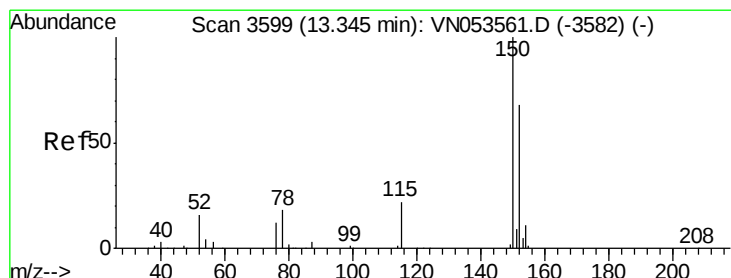
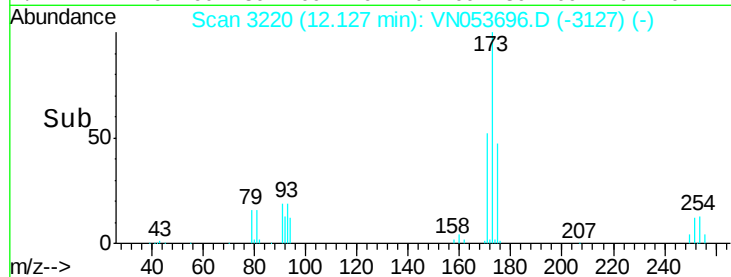
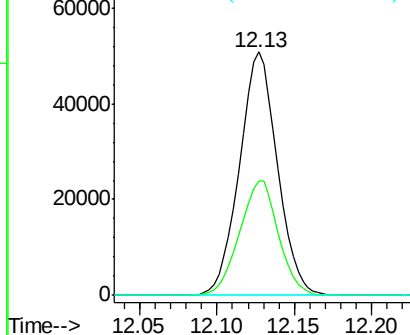
Tot Ion	Ratio	Lower	Upper
173	100		
175	48.4	24.6	74.0
254	0.0	0.2	0.2

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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

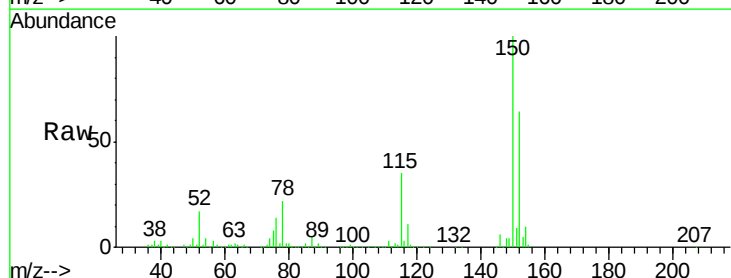
RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

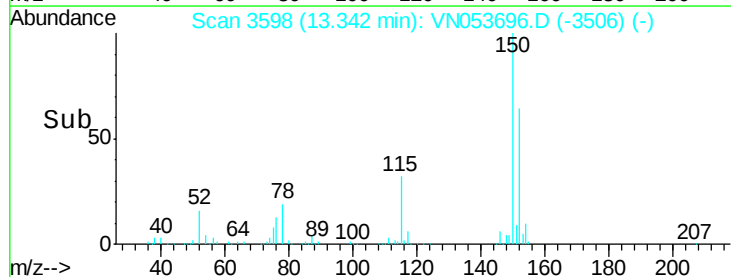
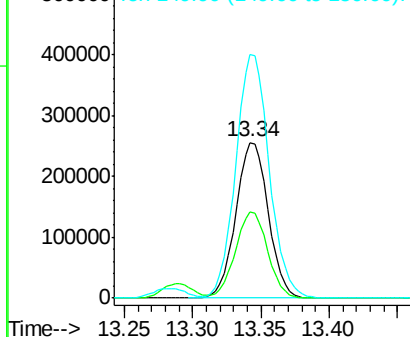
Lab File: VN053696.D

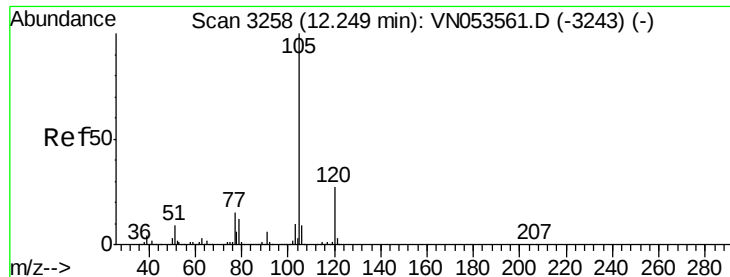
Acq: 11 Feb 2019 11:25

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.1	27.8	83.4
150	162.5	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: 19.831 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN053696.D

Acq: 11 Feb 2019 11:25

Instrument :

MSVOA_N

ClientSampleId :

VN0211WBS01

Tot Ion: 105 Resp: 585373

Ion Ratio Lower Upper

105 100

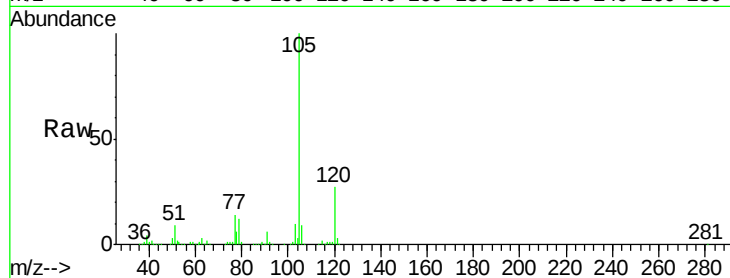
120 26.5 13.6 40.7

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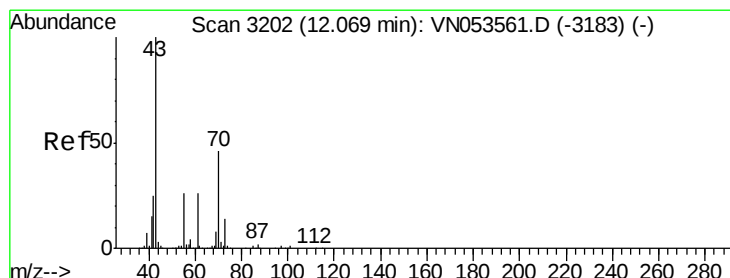
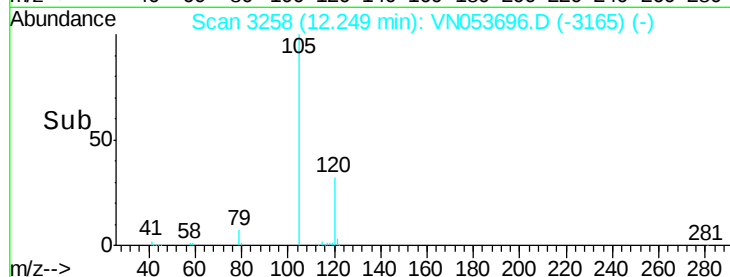
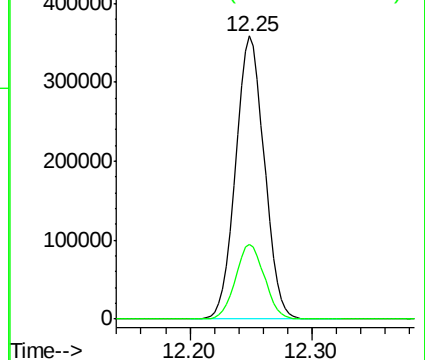
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 18.319 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN053696.D

Acq: 11 Feb 2019 11:25

Tgt Ion: 43 Resp: 130025

Ion Ratio Lower Upper

43 100

70 44.9 35.4 53.2

55 26.2 20.9 31.3

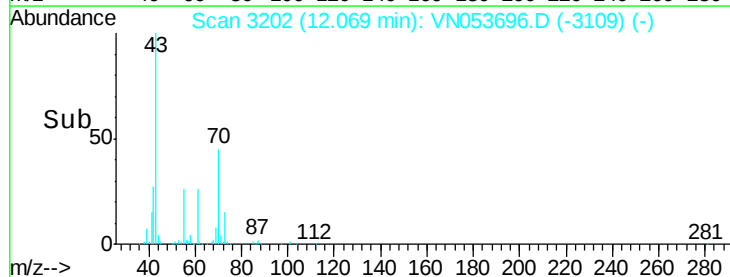
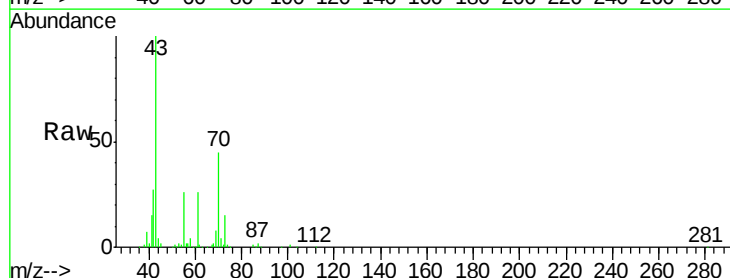
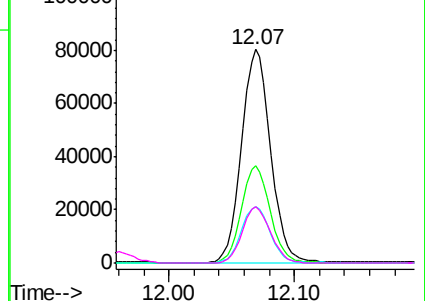
61 25.4 20.5 30.7

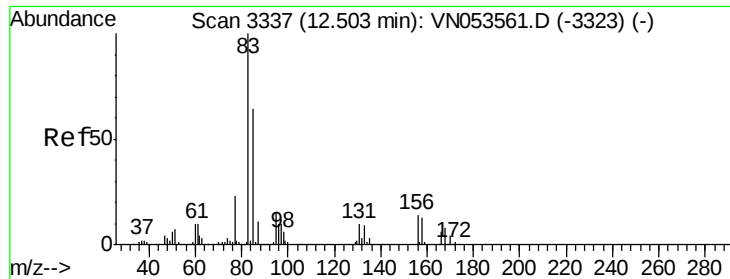
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: 18.672 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN053696.D

Acq: 11 Feb 2019 11:25

Instrument :

MSVOA_N

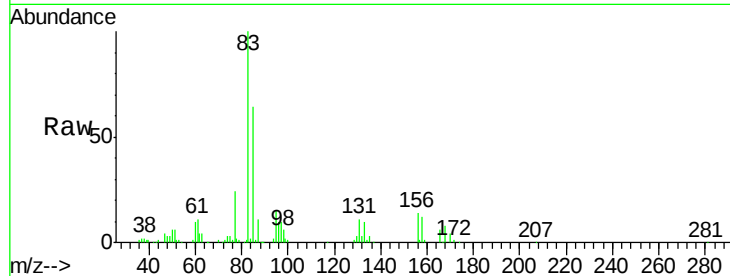
ClientSampled :

VN0211WBS01

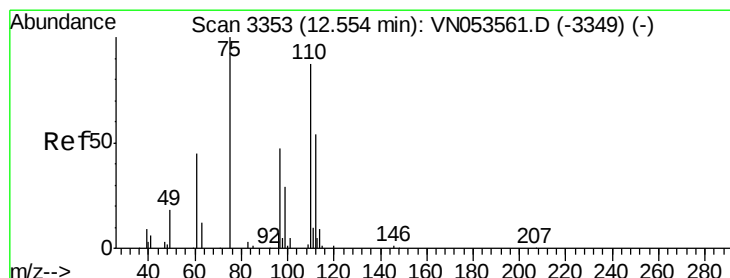
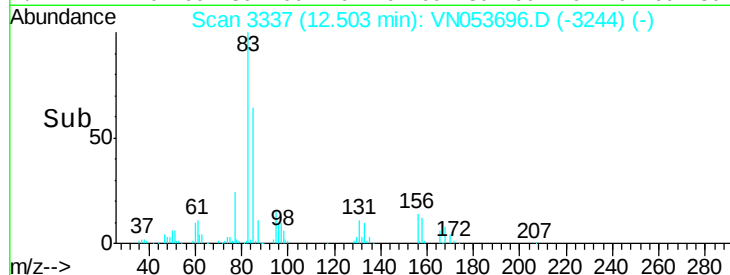
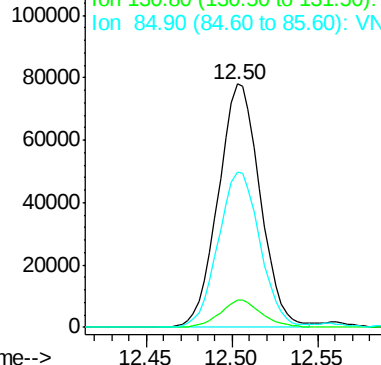
Tot Ion:	83	Resp:	131905
Ion Ratio	Lower	Upper	
83	100		
131	11.0	5.3	15.8
85	63.6	32.1	96.3

Manual Integrations
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Abundance Ion 82.90 (82.60 to 83.60): VN053561.D (-3323) (-)



#76

1,2,3-Trichloropropane

Concen: 19.791 ug/l m

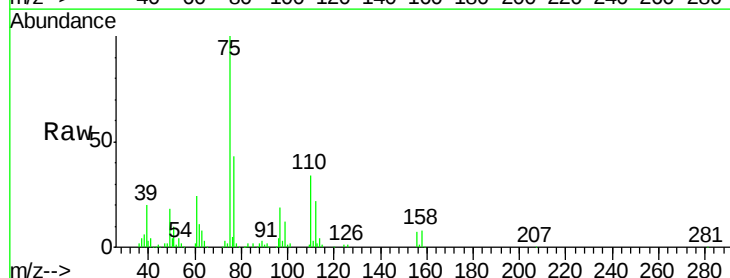
RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

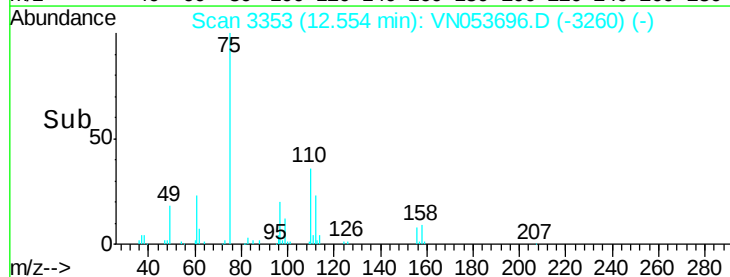
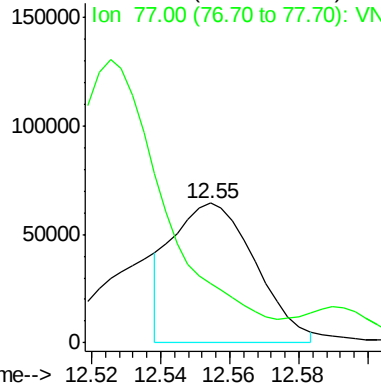
Lab File: VN053696.D

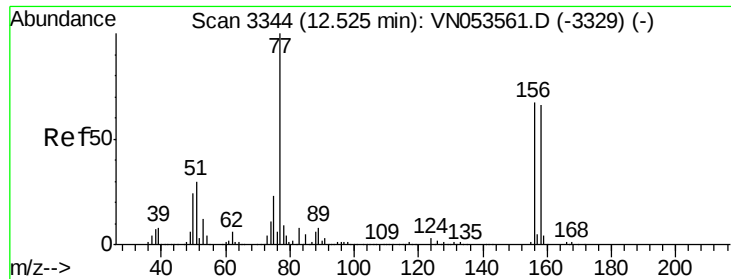
Acq: 11 Feb 2019 11:25

Tgt Ion:	75	Resp:	106738
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0



Abundance Ion 74.90 (74.60 to 75.60): VN053561.D (-3349) (-)





#77

Bromobenzene

Concen: 18.783 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN053696.D

Acq: 11 Feb 2019 11:25

Instrument :

MSVOA_N

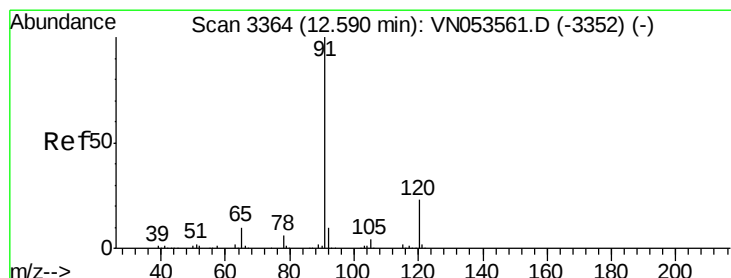
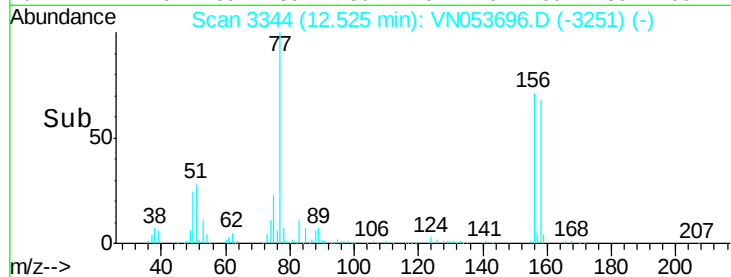
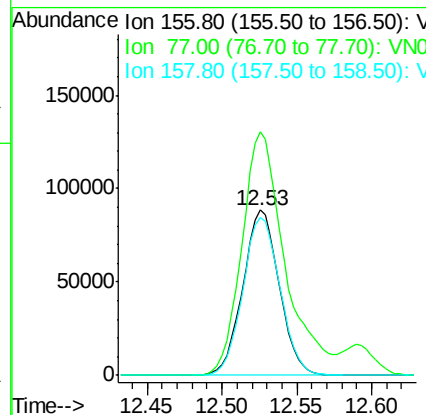
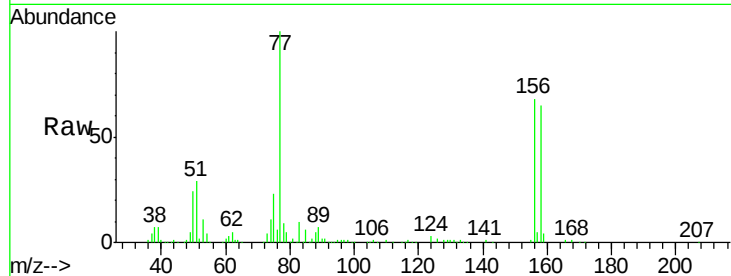
ClientSampleId :

VN0211WBS01

Tot Ion	Ratio	Resp	Lower	Upper
156	100	149422		
77	174.3	87.9	263.8	
158	98.0	48.8	146.4	

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#78

n-propylbenzene

Concen: 19.794 ug/l

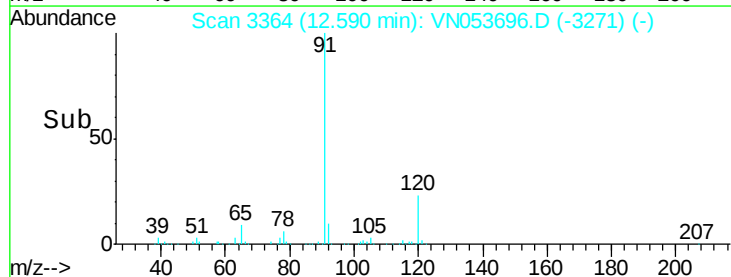
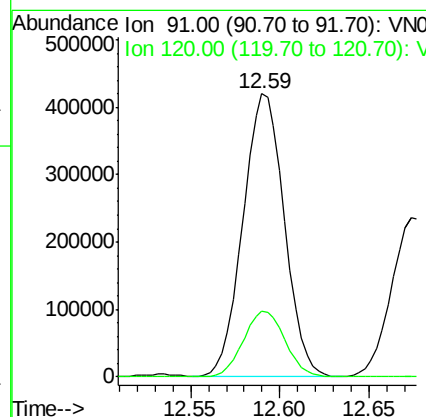
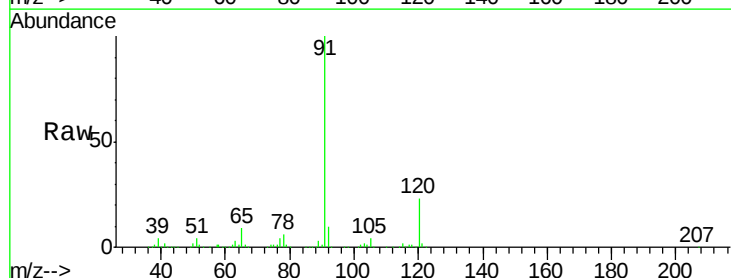
RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN053696.D

Acq: 11 Feb 2019 11:25

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	675433		
120	23.5	11.9	35.5	





#79

2-Chlorotoluene

Concen: 19.723 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN053696.D

Acq: 11 Feb 2019 11:25

Instrument :

MSVOA_N

ClientSampleId :

VN0211WBS01

Tot Ion: 91 Resp: 399283

Ion Ratio Lower Upper

91 100

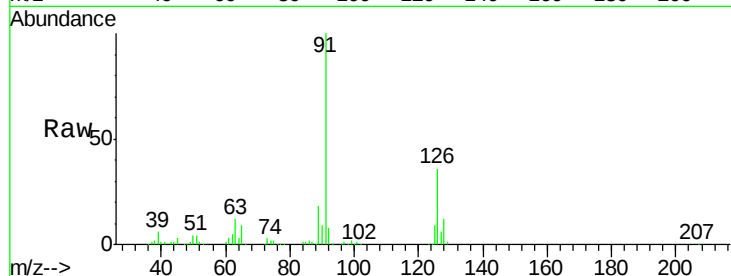
126 36.3 17.9 53.7

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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) (-)

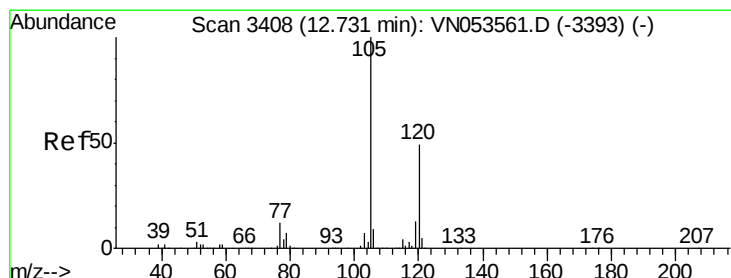
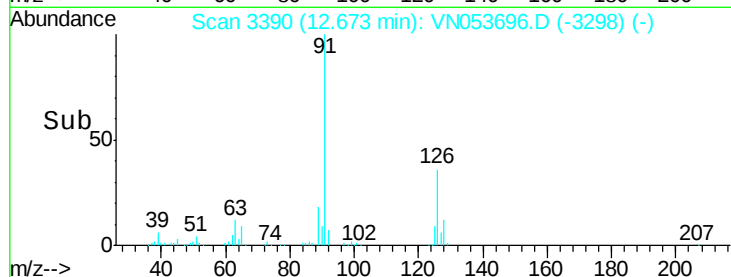
300000

200000

100000

0

Time--> 12.60 12.65 12.70



#80

1,3,5-Trimethylbenzene

Concen: 20.370 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN053696.D

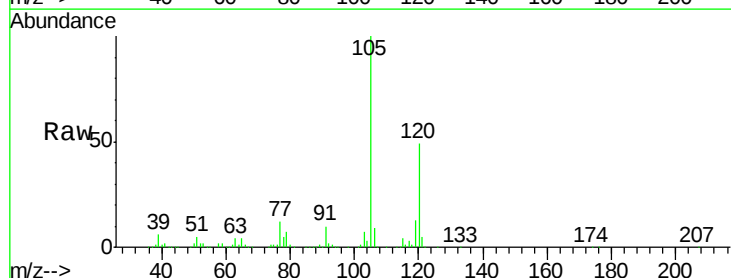
Acq: 11 Feb 2019 11:25

Tgt Ion: 105 Resp: 498596

Ion Ratio Lower Upper

105 100

120 50.3 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) (-)

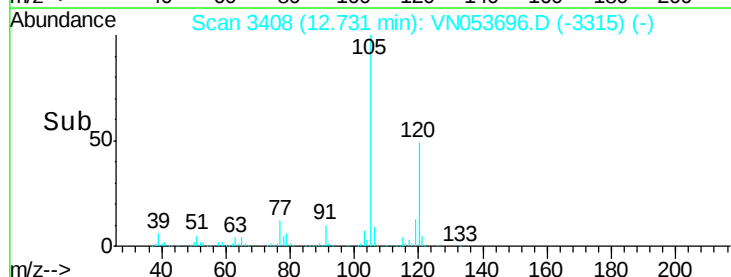
300000

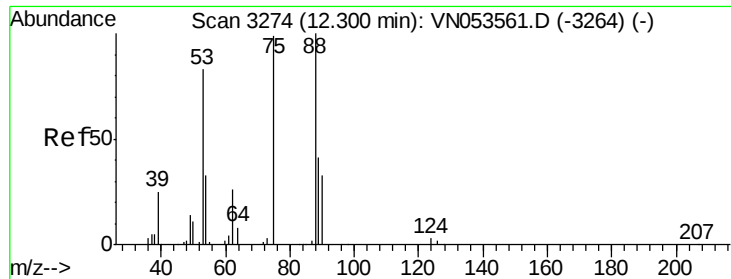
200000

100000

0

Time--> 12.70 12.80





#81

trans-1,4-Dichloro-2-butene

Concen: 17.247 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN053696.D

Acq: 11 Feb 2019 11:25

Instrument :

MSVOA_N

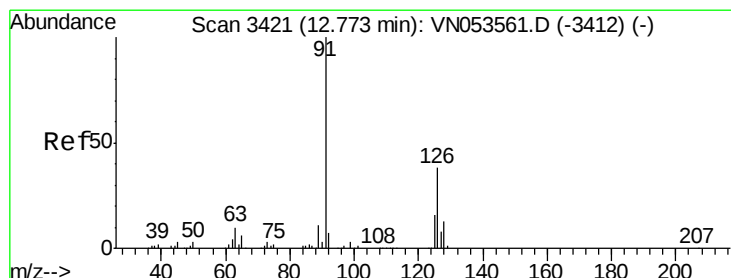
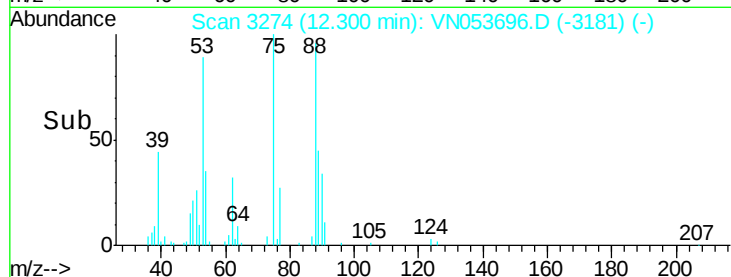
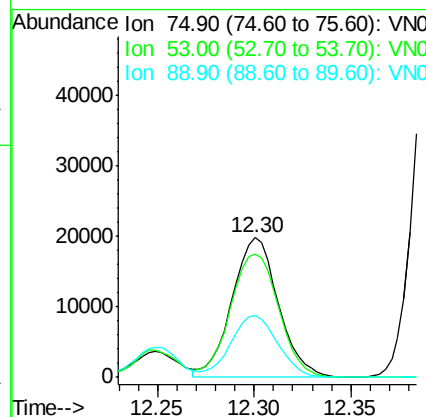
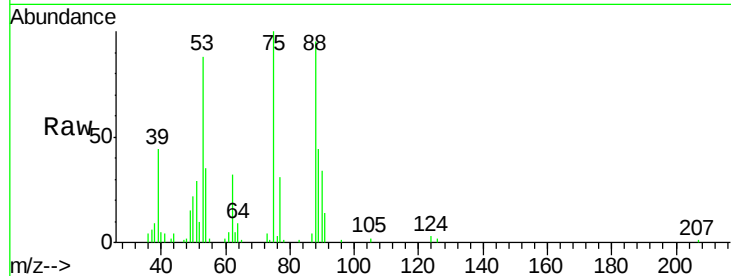
ClientSampleId :

VN0211WBS01

Tot Ion:	75	Resp:	33080
Ion Ratio	Lower	Upper	
75	100		
53	91.8	69.8	104.6
89	44.6	35.6	53.4

Manual Integrations
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#82

4-Chlorotoluene

Concen: 19.135 ug/l

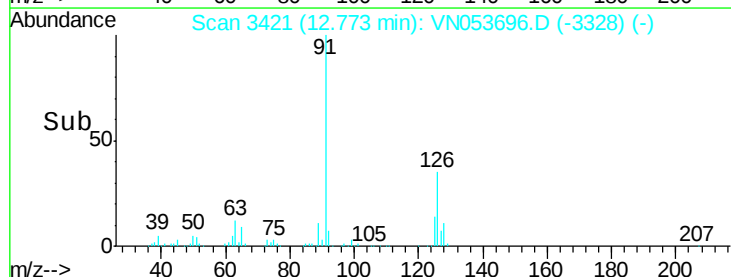
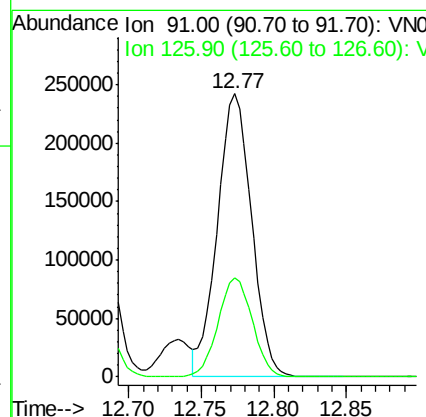
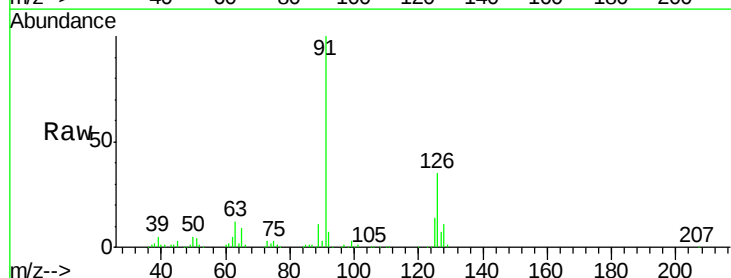
RT: 12.77 min Scan# 3421

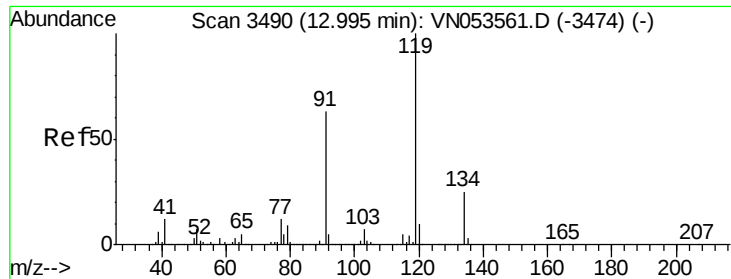
Delta R.T. 0.00 min

Lab File: VN053696.D

Acq: 11 Feb 2019 11:25

Tgt Ion:	91	Resp:	397495
Ion Ratio	Lower	Upper	
91	100		
126	35.1	17.6	52.9





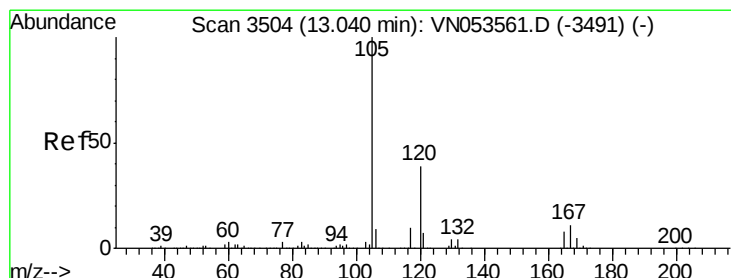
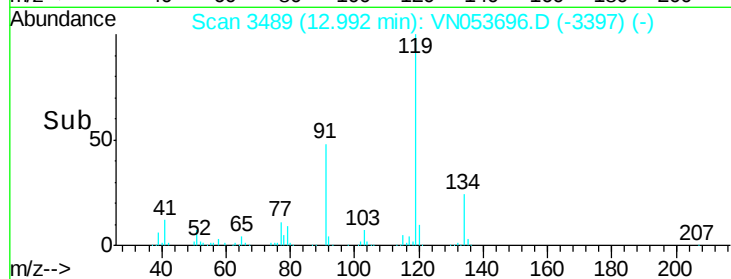
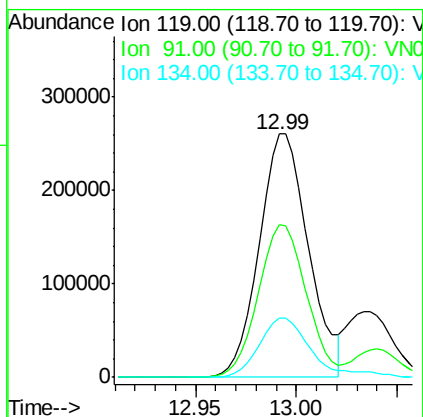
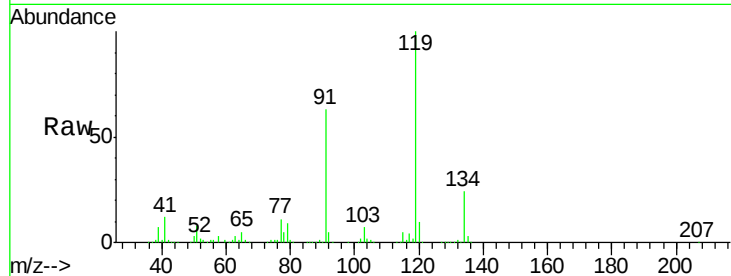
#83
tert-Butylbenzene
Concen: 20.485 ug/l
RT: 12.99 min Scan# 3489
Delta R.T. -0.00 min
Lab File: VN053696.D
Acq: 11 Feb 2019 11:25

Instrument :
MSVOA_N
ClientSampled :
VN0211WBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	443168		
91	61.1		31.3	93.8
134	25.9		12.9	38.7

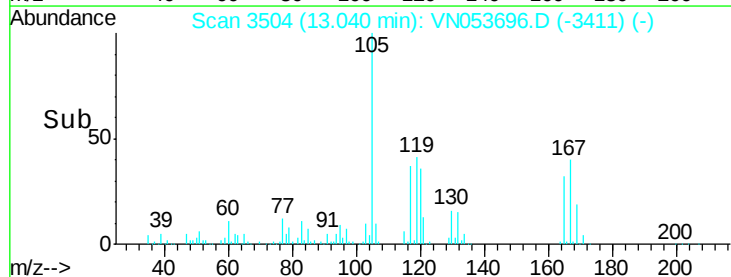
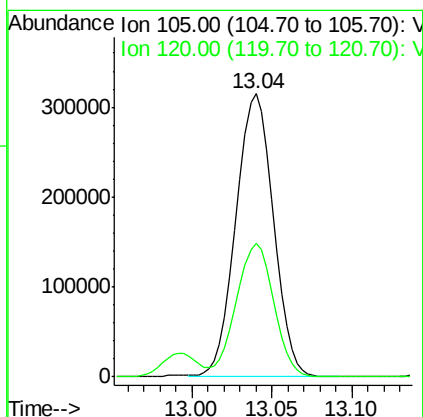
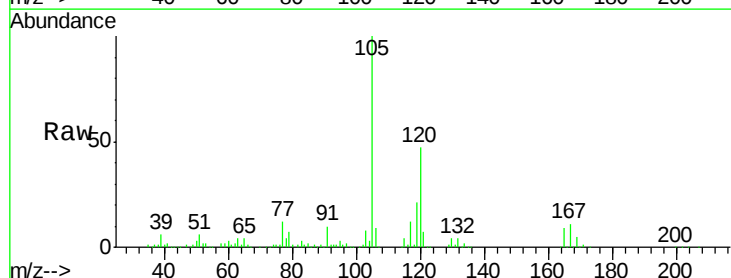
Manual Integrations
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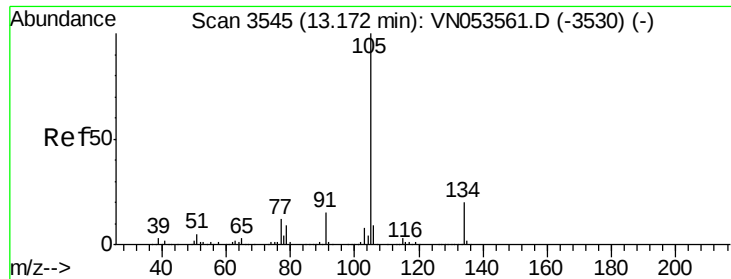
MMDadoda
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#84
1,2,4-Trimethylbenzene
Concen: 20.113 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. 0.00 min
Lab File: VN053696.D
Acq: 11 Feb 2019 11:25

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	501574		
120	47.3		23.0	69.0





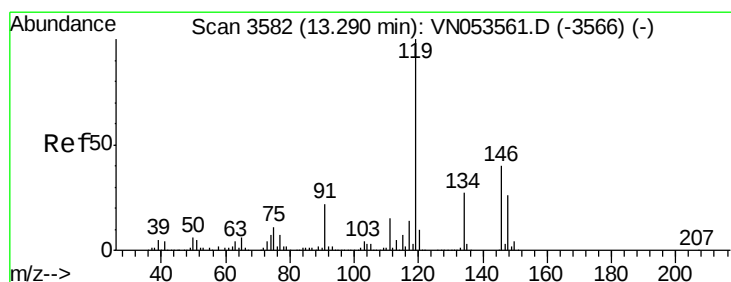
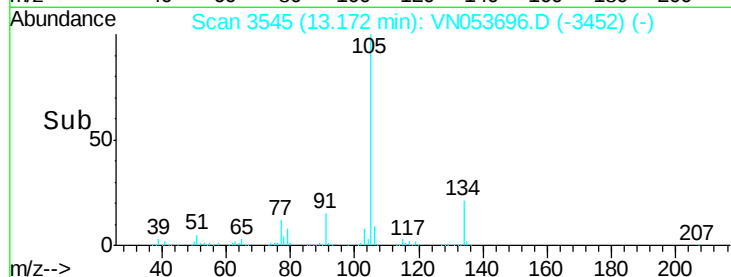
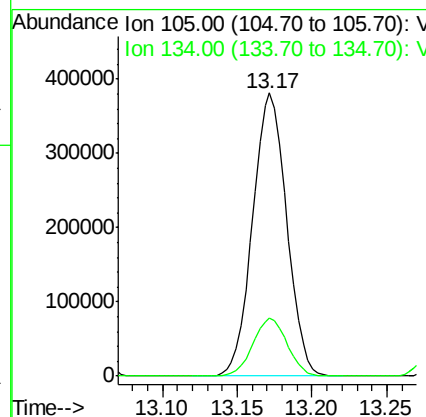
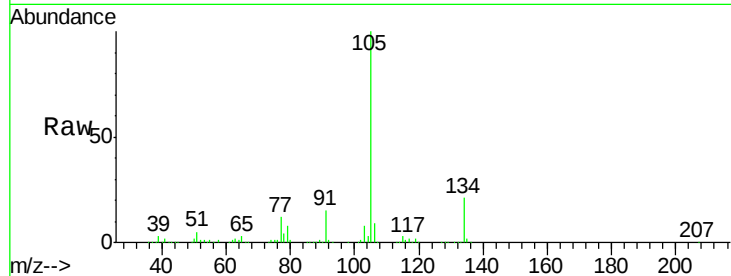
#85
 sec-Butylbenzene
 Concen: 20.473 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. 0.00 min
 Lab File: VN053696.D
 Acq: 11 Feb 2019 11:25

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0211WBS01

Tot Ion	Ratio	Lower	Upper
105	100		
134	20.8	10.2	30.6

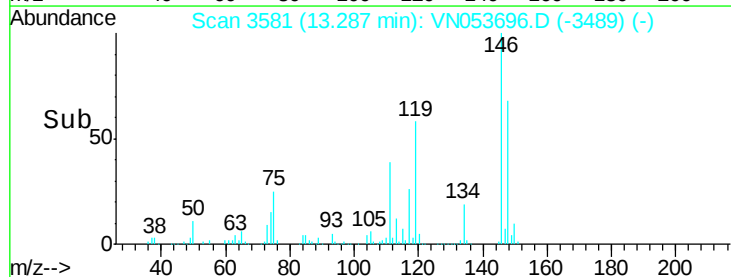
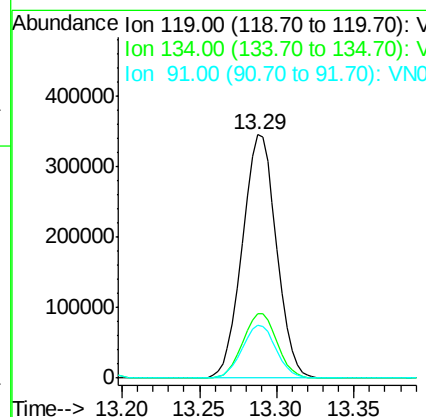
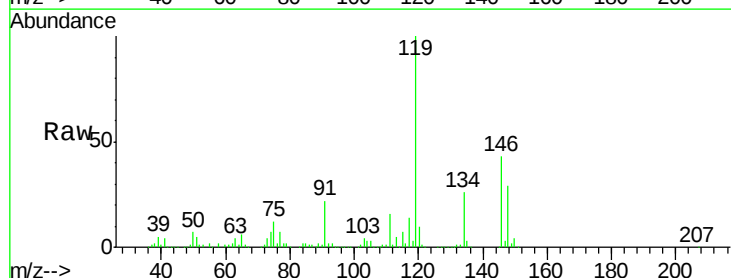
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#86
 p-Isopropyltoluene
 Concen: 20.558 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. -0.00 min
 Lab File: VN053696.D
 Acq: 11 Feb 2019 11:25

Tgt Ion	Ratio	Lower	Upper
119	100		
134	26.7	13.5	40.4
91	21.5	11.0	33.0





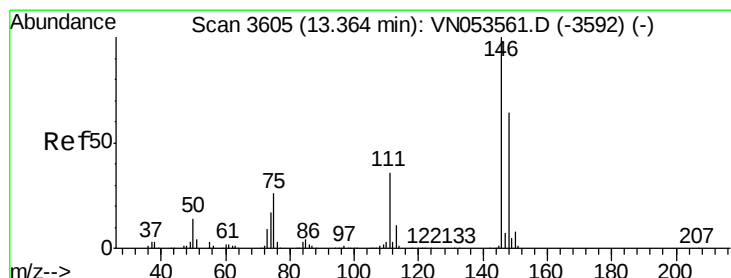
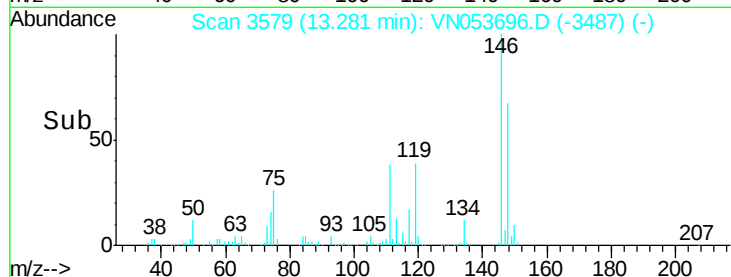
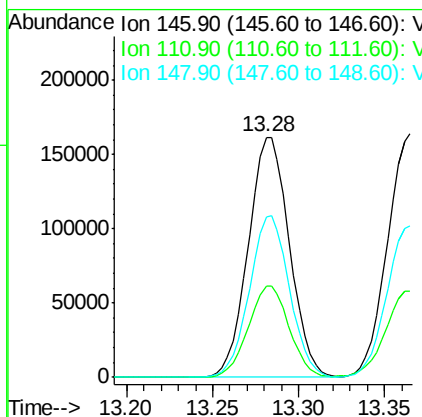
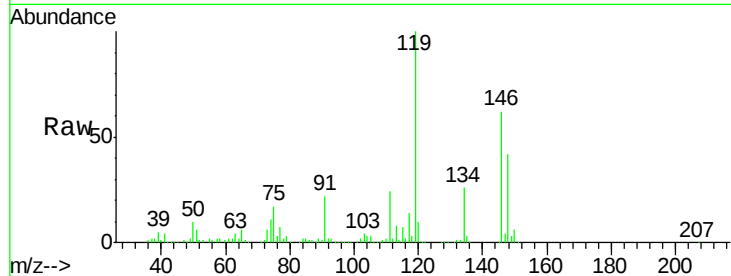
#87
 1,3-Dichlorobenzene
 Concen: 18.690 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. -0.00 min
 Lab File: VN053696.D
 Acq: 11 Feb 2019 11:25

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0211WBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.8	18.8	56.3
148	65.6	32.0	96.2

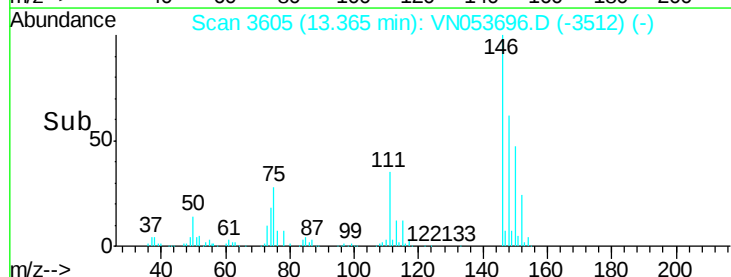
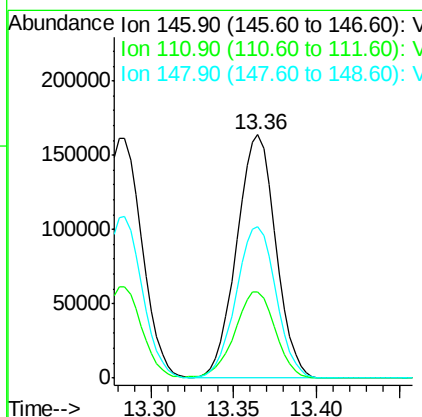
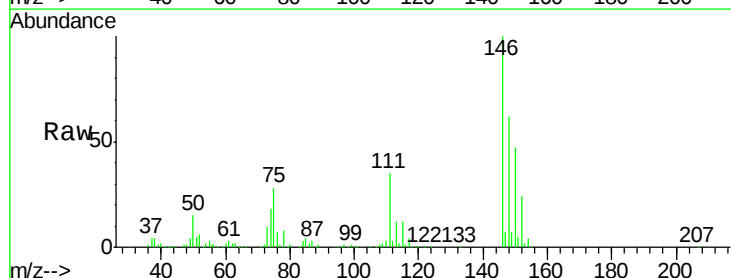
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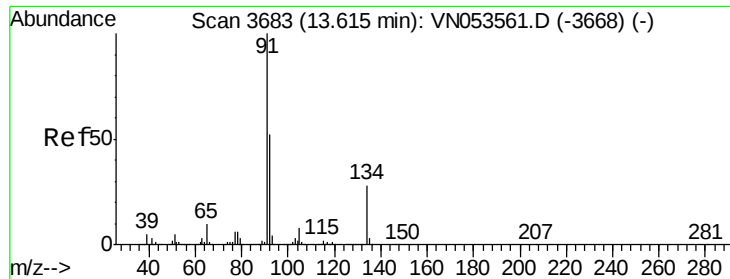
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#88
 1,4-Dichlorobenzene
 Concen: 18.942 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN053696.D
 Acq: 11 Feb 2019 11:25

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.1	18.6	55.8
148	63.6	32.4	97.0





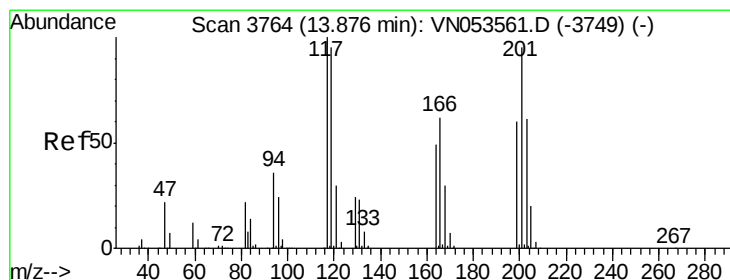
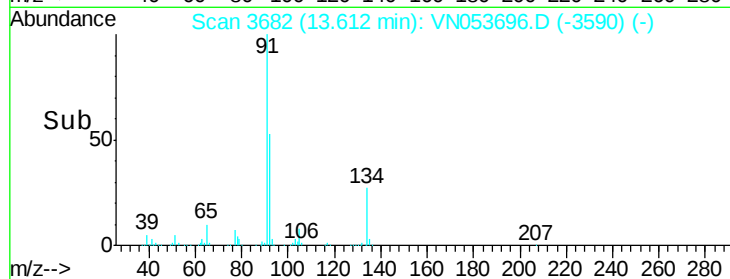
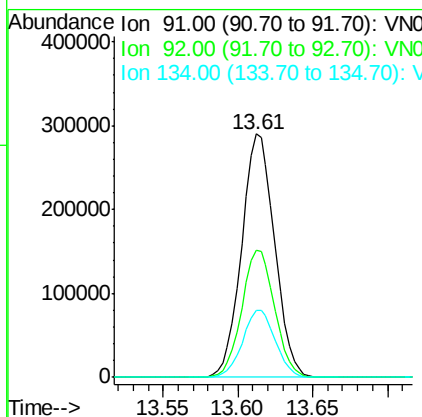
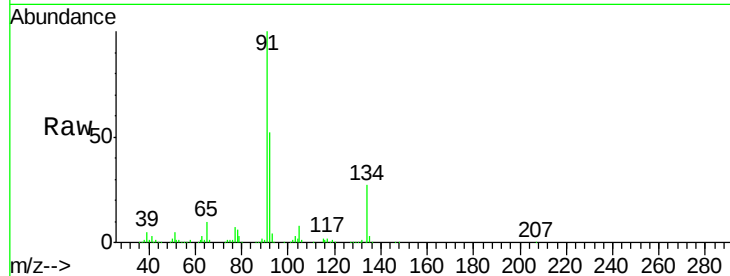
#89
n-Butylbenzene
Concen: 19.969 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. -0.00 min
Lab File: VN053696.D
Acq: 11 Feb 2019 11:25

Instrument :
MSVOA_N
ClientSampleId :
VN0211WBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.1	26.3	78.8
134	27.3	13.5	40.5

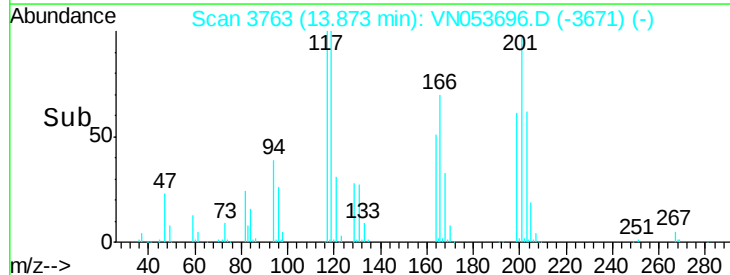
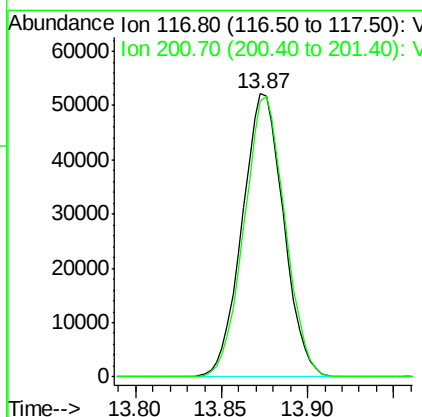
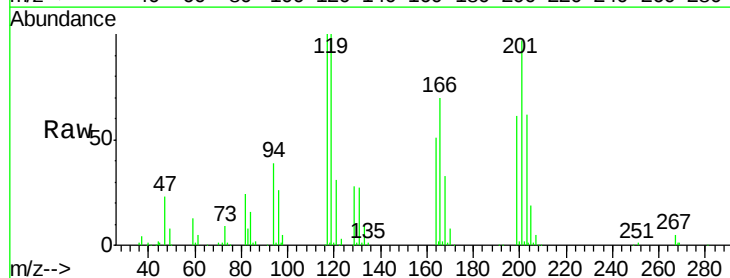
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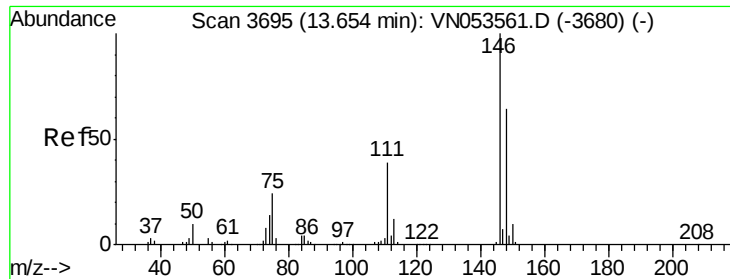
MMDadoda
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#90
Hexachloroethane
Concen: 20.495 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. -0.00 min
Lab File: VN053696.D
Acq: 11 Feb 2019 11:25

Tgt Ion	Ratio	Lower	Upper
117	100		
201	97.8	46.8	140.4





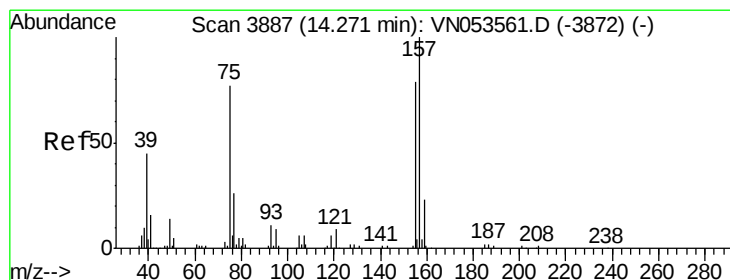
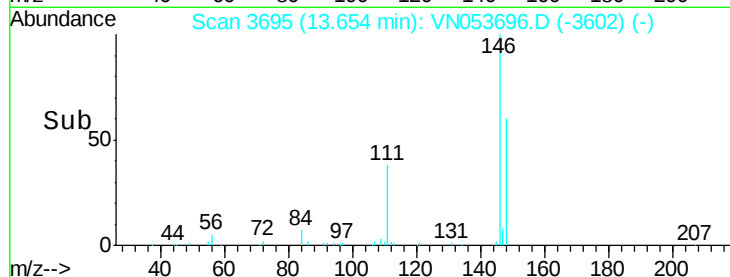
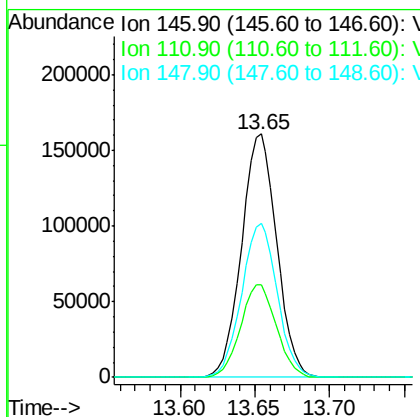
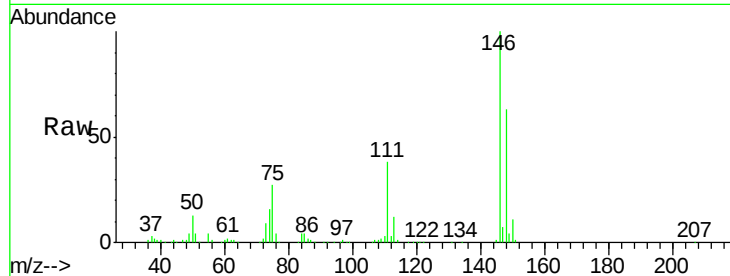
#91
 1,2-Dichlorobenzene
 Concen: 19.212 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN053696.D
 Acq: 11 Feb 2019 11:25

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0211WBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.8	19.5	58.5
148	64.0	31.9	95.9

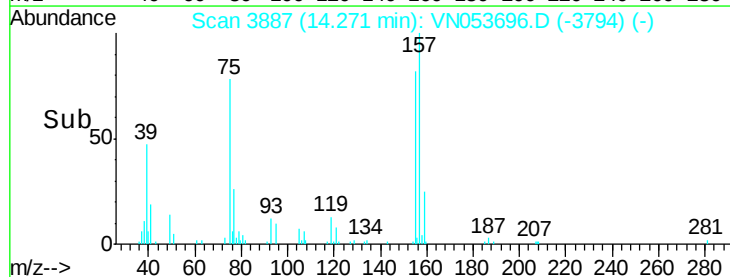
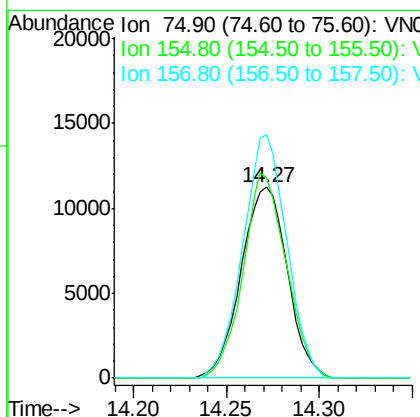
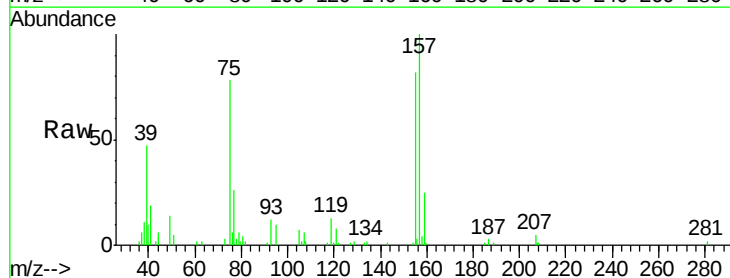
Manual Integrations
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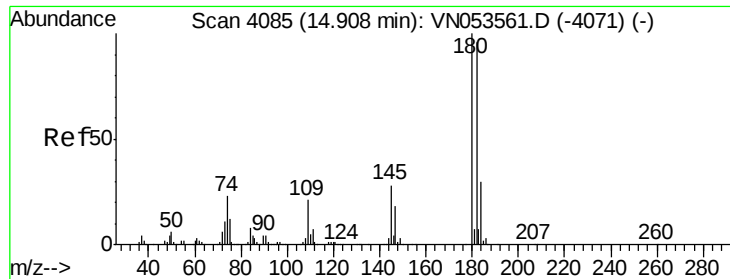
MMDadoda
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 19.389 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. 0.00 min
 Lab File: VN053696.D
 Acq: 11 Feb 2019 11:25

Tgt Ion	Ratio	Lower	Upper
75	100		
155	99.6	48.9	146.7
157	120.7	63.7	191.3





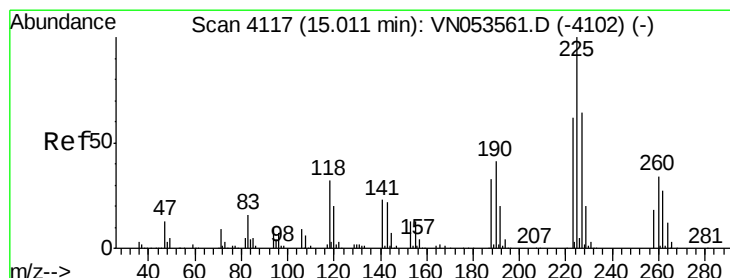
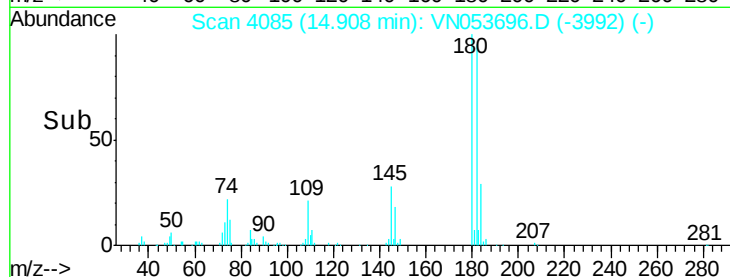
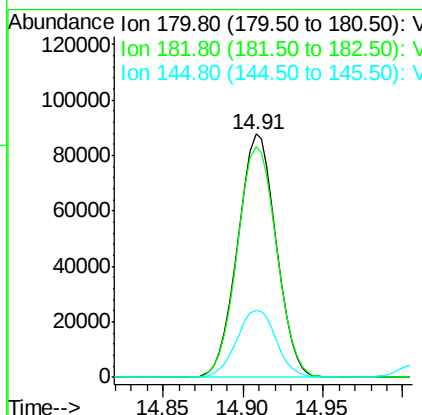
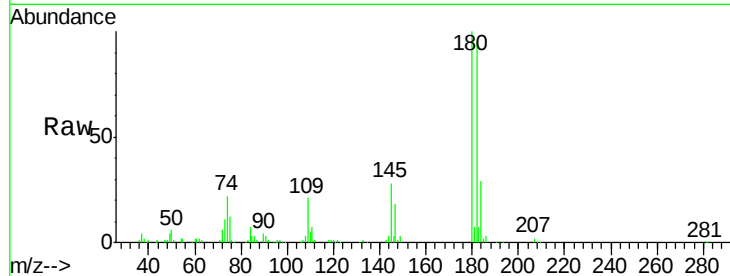
#93
 1,2,4-Trichlorobenzene
 Concen: 18.253 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN053696.D
 Acq: 11 Feb 2019 11:25

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0211WBS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	143321		
182	97.1	48.1	144.3	
145	28.3	13.9	41.6	

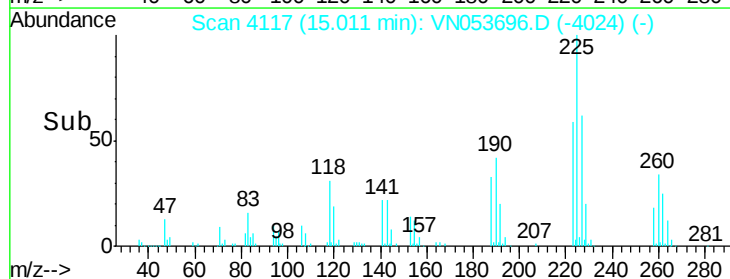
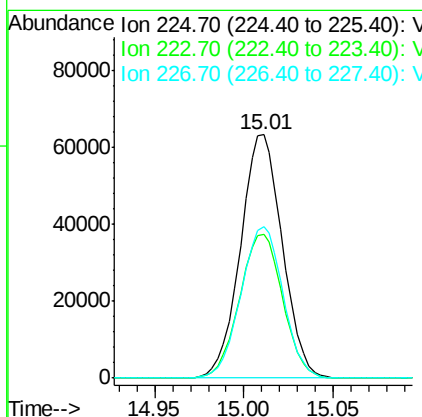
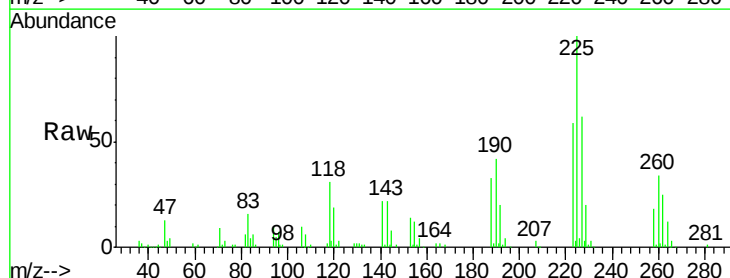
Manual Integrations
 APPROVED

MMDadoda
 2/12/2019 12:50:23 PM



#94
 Hexachlorobutadiene
 Concen: 21.243 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN053696.D
 Acq: 11 Feb 2019 11:25

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	103878		
223	61.2	31.1	93.2	
227	62.5	32.0	96.2	





#95

Naphthalene

Concen: 15.876 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN053696.D

Acq: 11 Feb 2019 11:25

Instrument :

MSVOA_N

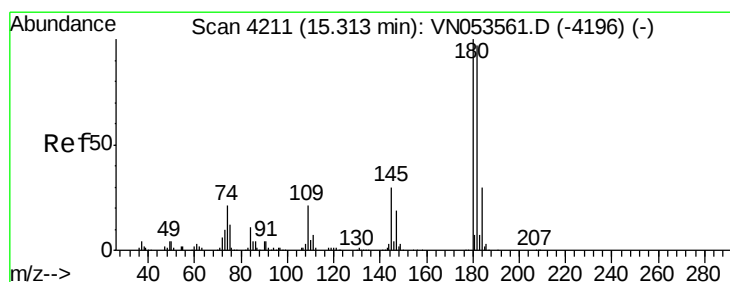
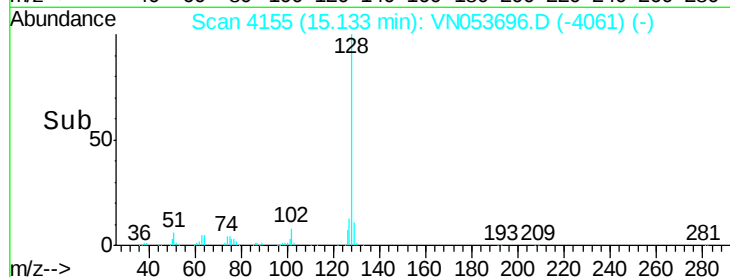
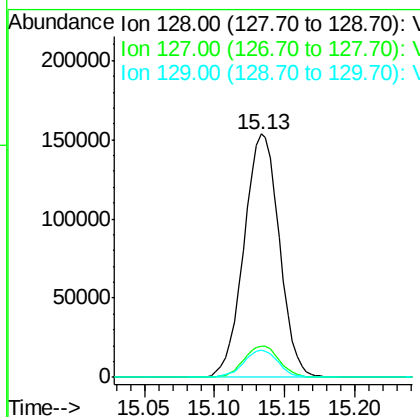
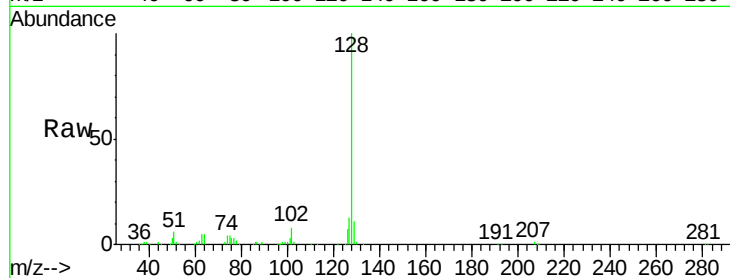
ClientSampleId :

VN0211WBS01

Tot Ion:	128	Resp:	270181
Ion Ratio	Lower	Upper	
128	100		
127	12.9	10.3	15.5
129	10.9	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
2/12/2019 12:50:23 PM



#96

1,2,3-Trichlorobenzene

Concen: 18.639 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN053696.D

Acq: 11 Feb 2019 11:25

Tgt Ion:	180	Resp:	135799
Ion Ratio	Lower	Upper	
180	100		
182	96.0	47.9	143.8
145	29.3	14.7	44.1

