

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN021119\
 Data File : VN053713.D
 Acq On : 11 Feb 2019 19:01
 Operator : JC/SP
 Sample : VN0211WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0211WBSD01

Manual Integrations
 APPROVED

MMDadoda
 2/12/2019 12:49:57 PM

Quant Time: Feb 11 23:16:50 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N013019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 01 09:11:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	581884	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	974451	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	841114	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	395824	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	340279	58.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	116.58%	
35) Dibromofluoromethane	7.59	113	319861	51.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.90%	
50) Toluene-d8	10.09	98	1178992	51.00	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.00%	
62) 4-Bromofluorobenzene	12.40	95	389512	50.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.04%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	131236	20.208	ug/l	99
3) Chloromethane	2.06	50	142653	20.650	ug/l	99
4) Vinyl Chloride	2.19	62	141502	21.101	ug/l	99
5) Bromomethane	2.57	94	85394	19.475	ug/l	100
6) Chloroethane	2.71	64	90336	23.573	ug/l	97
7) Trichlorofluoromethane	3.02	101	200204	22.015	ug/l	98
8) Diethyl Ether	3.41	74	74044	22.295	ug/l	94
9) 1,1,2-Trichlorotrifluoroet	3.76	101	119993	21.335	ug/l	98
10) Methyl Iodide	3.96	142	129527	14.673	ug/l	99
11) Tert butyl alcohol	4.79	59	40855	118.258	ug/l #	93
12) 1,1-Dichloroethene	3.74	96	114015	21.159	ug/l	96
13) Acrolein	3.61	56	16309	86.706	ug/l	100
14) Allyl chloride	4.33	41	182492	21.271	ug/l	99
15) Acrylonitrile	4.99	53	221447	118.736	ug/l	99
16) Acetone	3.82	43	142340	95.064	ug/l	98
17) Carbon Disulfide	4.06	76	319340	19.033	ug/l	100
18) Methyl Acetate	4.33	43	113766	25.656	ug/l	100
19) Methyl tert-butyl Ether	5.05	73	316775	23.190	ug/l	99
20) Methylene Chloride	4.56	84	137941	21.959	ug/l	98
21) trans-1,2-Dichloroethene	5.05	96	122685	21.104	ug/l	94
22) Diisopropyl ether	5.95	45	350727	22.062	ug/l	95
23) Vinyl Acetate	5.90	43	1217290	110.689	ug/l	99
24) 1,1-Dichloroethane	5.85	63	231276	21.812	ug/l	99
25) 2-Butanone	6.84	43	230233	107.812	ug/l	100
26) 2,2-Dichloropropane	6.83	77	148972	18.405	ug/l	100
27) cis-1,2-Dichloroethene	6.83	96	142322	22.017	ug/l	97
28) Bromochloromethane	7.20	49	100429	21.826	ug/l	95
29) Tetrahydrofuran	7.21	42	161610	117.854	ug/l	98
30) Chloroform	7.37	83	234293	22.291	ug/l	99
31) Cyclohexane	7.66	56	202661	20.429	ug/l	96
32) 1,1,1-Trichloroethane	7.57	97	193584	22.131	ug/l	99
36) 1,1-Dichloropropene	7.79	75	163793	18.647	ug/l	98
37) Ethyl Acetate	6.93	43	104773	21.356	ug/l	99
38) Carbon Tetrachloride	7.77	117	166846	18.855	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	182667	17.528	ug/l	98
40) Benzene	8.04	78	531921	19.637	ug/l	100
41) Methacrylonitrile	7.18	41	52562	19.170	ug/l #	85
42) 1,2-Dichloroethane	8.12	62	158135	19.661	ug/l	99
43) Isopropyl Acetate	8.17	43	197513	20.847	ug/l	97
44) Trichloroethene	8.84	130	149065	19.330	ug/l	96
45) 1,2-Dichloropropane	9.12	63	140009	20.208	ug/l	97
46) Dibromomethane	9.21	93	84022	20.118	ug/l	97
47) Bromodichloromethane	9.40	83	175729	20.236	ug/l	99
48) Methyl methacrylate	9.20	41	94258	20.842	ug/l	99
49) 1,4-Dioxane	9.20	88	28235	453.113	ug/l	94
51) 4-Methyl-2-Pentanone	9.99	43	497973	106.959	ug/l	99
52) Toluene	10.16	92	321848	20.020	ug/l	98
53) t-1,3-Dichloropropene	10.38	75	166606	19.160	ug/l	100
54) cis-1,3-Dichloropropene	9.84	75	199616	19.373	ug/l	97
55) 1,1,2-Trichloroethane	10.56	97	122262	21.105	ug/l	98
56) Ethyl methacrylate	10.43	69	142463	20.788	ug/l	98
57) 1,3-Dichloropropane	10.71	76	201435	20.346	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	324721	81.964	ug/l	99
59) 2-Hexanone	10.75	43	311627	98.596	ug/l	99
60) Dibromochloromethane	10.90	129	132893	20.343	ug/l	100
61) 1,2-Dibromoethane	11.01	107	112798	19.673	ug/l	99
64) Tetrachloroethene	10.63	164	138948	19.271	ug/l	99
65) Chlorobenzene	11.44	112	348635	19.514	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	127913	20.500	ug/l	100
67) Ethyl Benzene	11.51	91	576624	19.647	ug/l	99
68) m/p-Xylenes	11.62	106	453899	40.522	ug/l	98
69) o-Xylene	11.95	106	217422	20.092	ug/l	100
70) Styrene	11.96	104	352489	20.097	ug/l	99
71) Bromoform	12.13	173	90414	21.136	ug/l #	100
73) Isopropylbenzene	12.25	105	574574	20.649	ug/l	100
74) N-amyl acetate	12.07	43	142767	21.337	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	140088	21.036	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	114741m	22.569	ug/l	
77) Bromobenzene	12.53	156	154194	20.561	ug/l	97
78) n-propylbenzene	12.59	91	658971	20.486	ug/l	99
79) 2-Chlorotoluene	12.67	91	393973	20.644	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	491734	21.311	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	34252	18.944	ug/l	99
82) 4-Chlorotoluene	12.77	91	394222	20.131	ug/l	100
83) tert-Butylbenzene	12.99	119	440486	21.599	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	495969	21.097	ug/l	99
85) sec-Butylbenzene	13.17	105	588832	21.218	ug/l	99
86) p-Isopropyltoluene	13.29	119	504765	20.797	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	263893	19.575	ug/l	98
88) 1,4-Dichlorobenzene	13.36	146	264506	19.835	ug/l	99
89) n-Butylbenzene	13.62	91	414604	19.735	ug/l	99
90) Hexachloroethane	13.88	117	85377	21.326	ug/l	95
91) 1,2-Dichlorobenzene	13.65	146	263574	20.422	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	21122	22.255	ug/l	99

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ClientSampleId :
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QLast Update : Fri Feb 01 09:11:52 2019
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	141001	19.049	ug/l	98
94) Hexachlorobutadiene	15.01	225	100046	21.703	ug/l	100
95) Naphthalene	15.13	128	288274	17.740	ug/l	100
96) 1,2,3-Trichlorobenzene	15.31	180	136807	19.919	ug/l	100

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

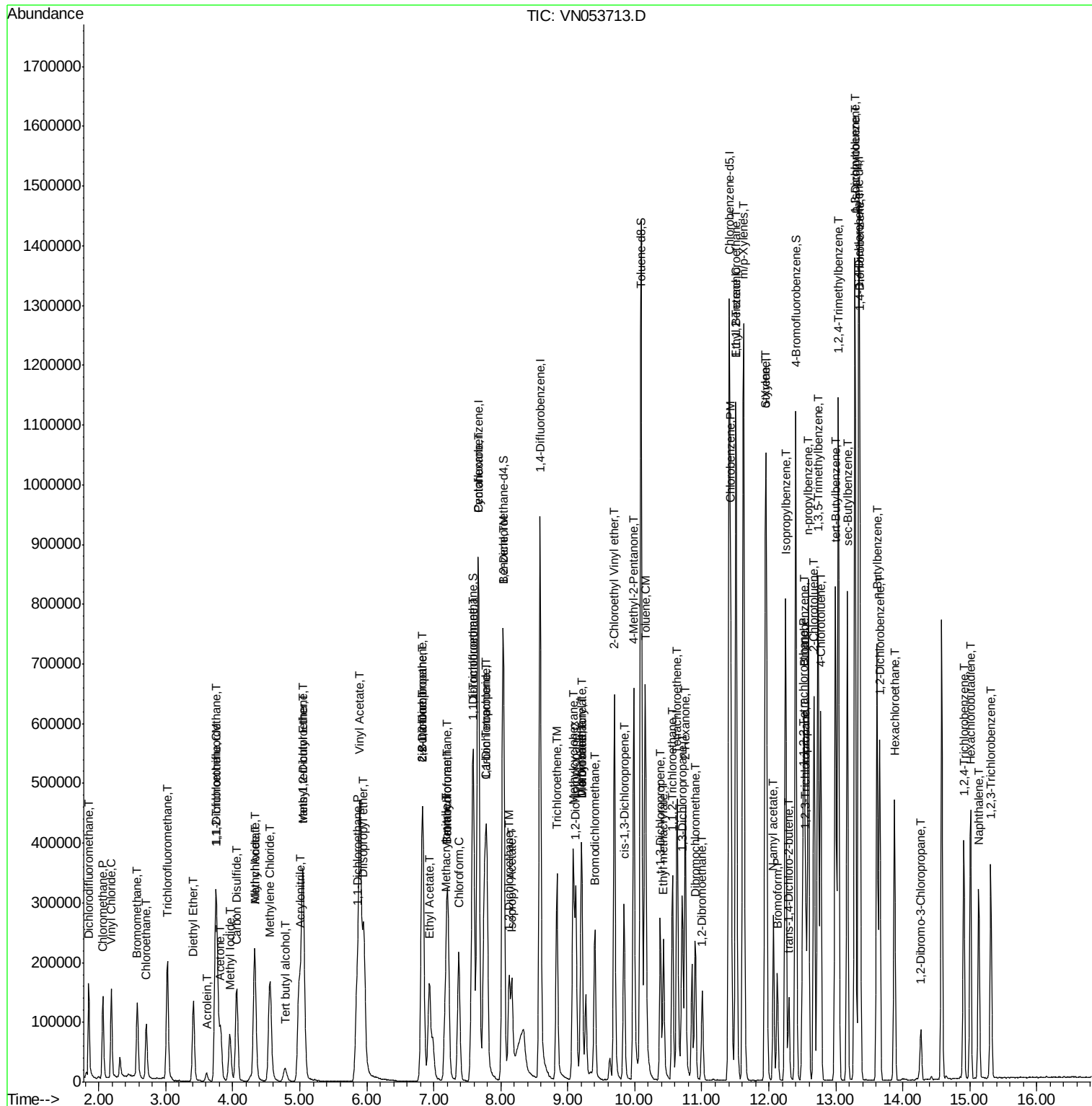
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 Data File : VN053713.D
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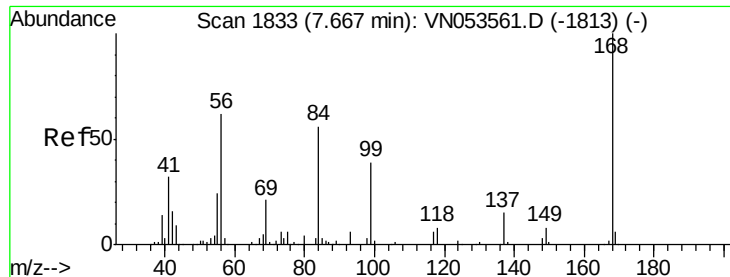
Instrument :
 MSVOA_N
 ClientSampleId :
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN053713.D

Acq: 11 Feb 2019 19:01

Instrument :

MSVOA_N

ClientSampled :

VN0211WBSD01

Tot Ion:168 Resp: 581884

Ion Ratio Lower Upper

168 100

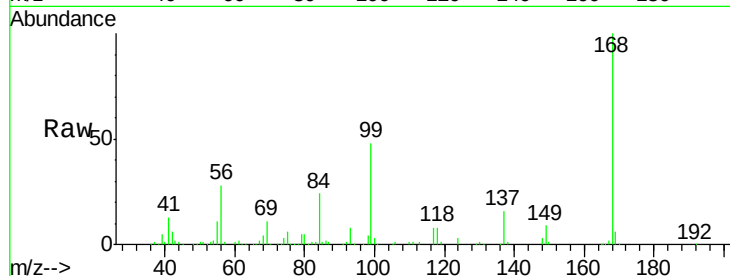
99 46.2 39.1 58.7

Manual Integrations

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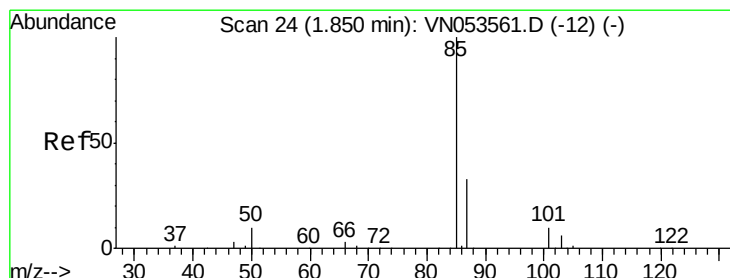
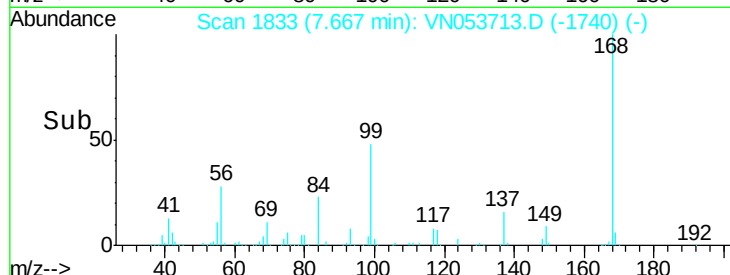
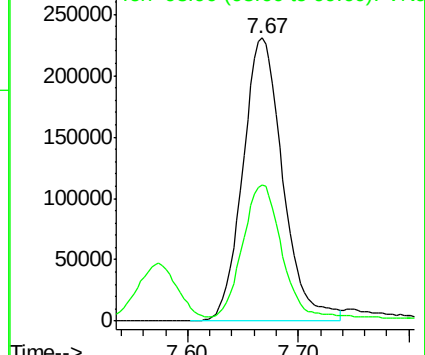
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#2

Dichlorodifluoromethane

Concen: 20.208 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN053713.D

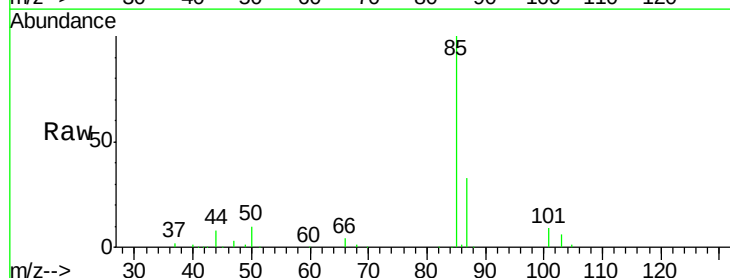
Acq: 11 Feb 2019 19:01

Tgt Ion: 85 Resp: 131236

Ion Ratio Lower Upper

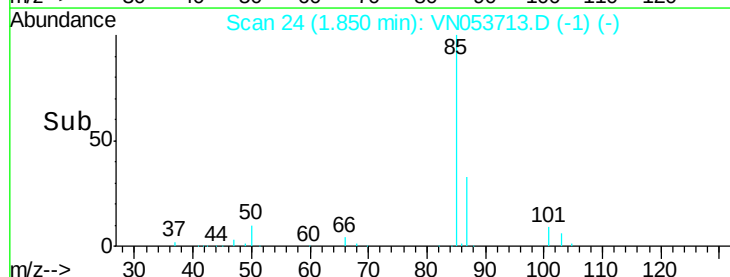
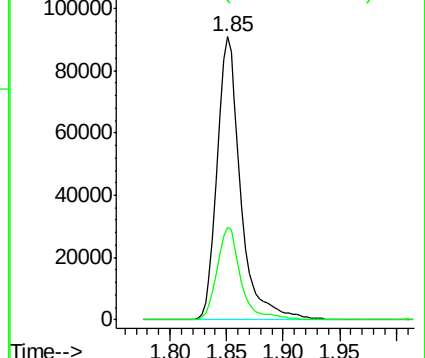
85 100

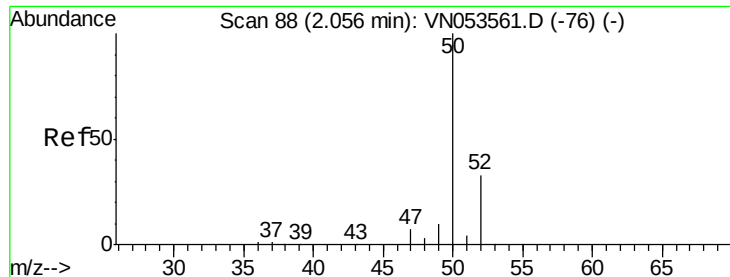
87 32.6 16.2 48.5



Abundance Ion 84.90 (84.60 to 85.60): VN0

Ion 86.90 (86.60 to 87.60): VN0





#3

Chloromethane

Concen: 20.650 ug/l

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN053713.D

Acq: 11 Feb 2019 19:01

Instrument :

MSVOA_N

ClientSampleId :

VN0211WBSD01

Tot Ion: 50 Resp: 142653

Ion Ratio Lower Upper

50 100

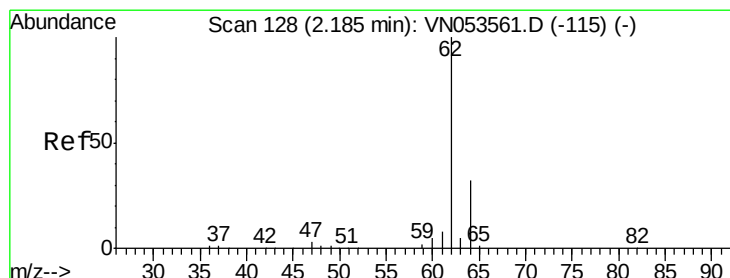
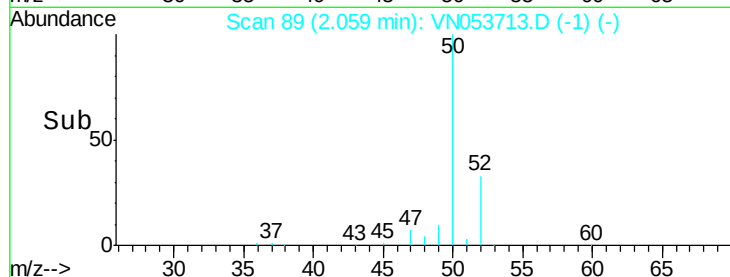
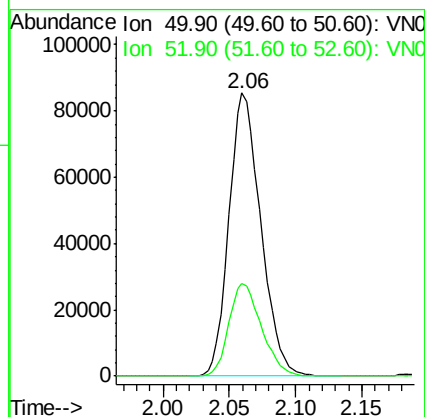
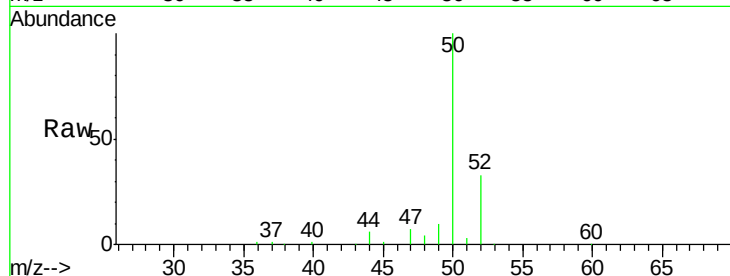
52 32.9 26.6 40.0

Manual Integrations

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#4

Vinyl Chloride

Concen: 21.101 ug/l

RT: 2.19 min Scan# 129

Delta R.T. 0.00 min

Lab File: VN053713.D

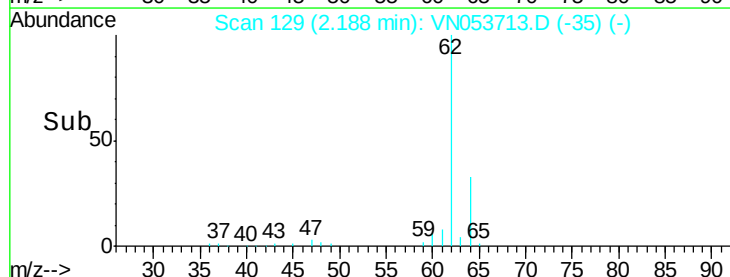
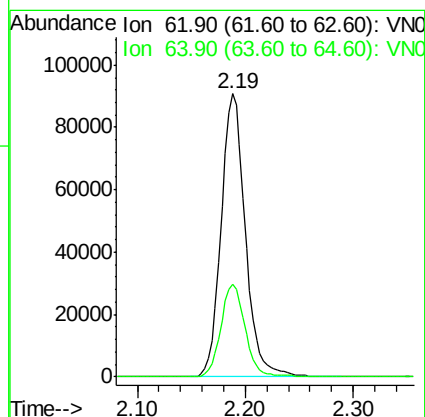
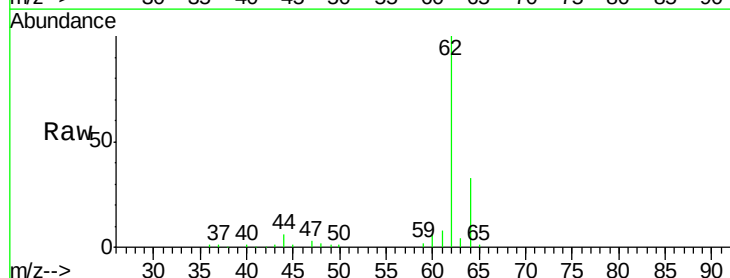
Acq: 11 Feb 2019 19:01

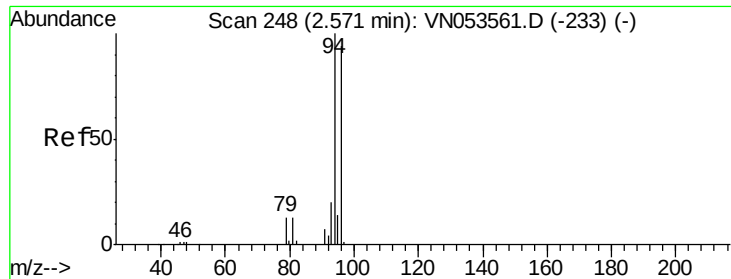
Tgt Ion: 62 Resp: 141502

Ion Ratio Lower Upper

62 100

64 32.6 25.4 38.2





#5

Bromomethane

Concen: 19.475 ug/l

RT: 2.57 min Scan# 249

Delta R.T. 0.00 min

Lab File: VN053713.D

Acq: 11 Feb 2019 19:01

Instrument :

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ClientSampleId :

VN0211WBSD01

Tot Ion: 94 Resp: 85394

Ion Ratio Lower Upper

94 100

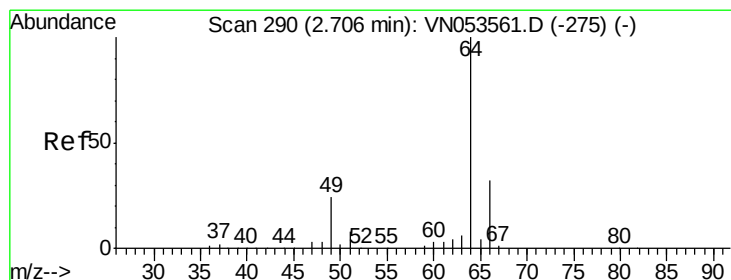
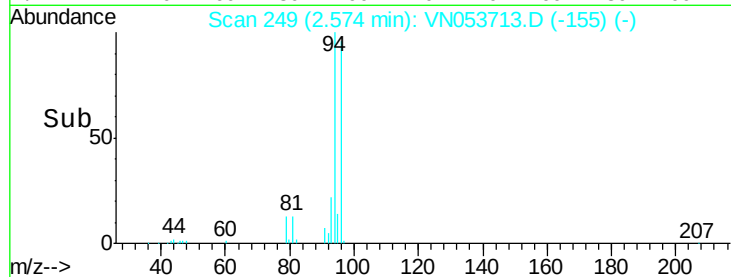
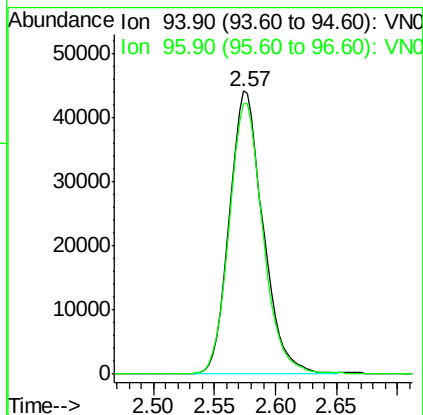
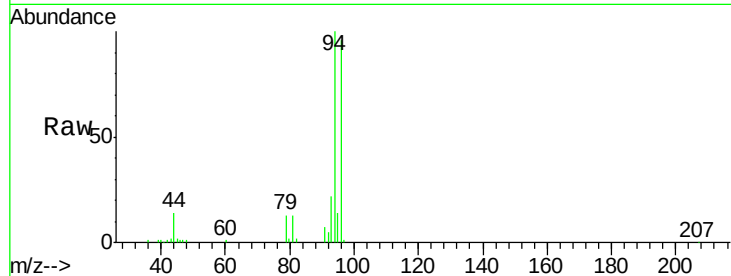
96 95.7 76.8 115.2

Manual Integrations

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#6

Chloroethane

Concen: 23.573 ug/l

RT: 2.71 min Scan# 291

Delta R.T. 0.00 min

Lab File: VN053713.D

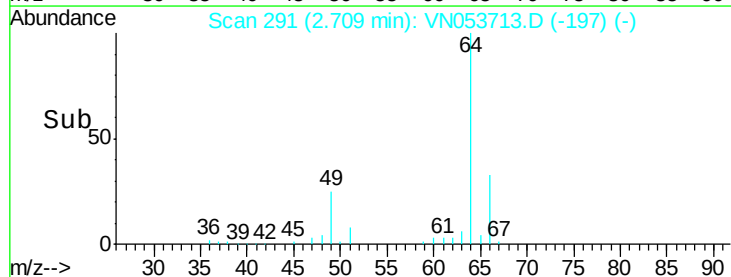
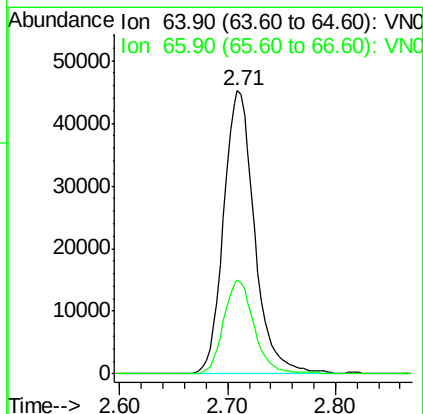
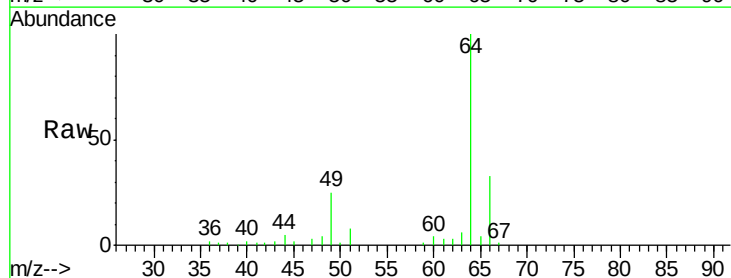
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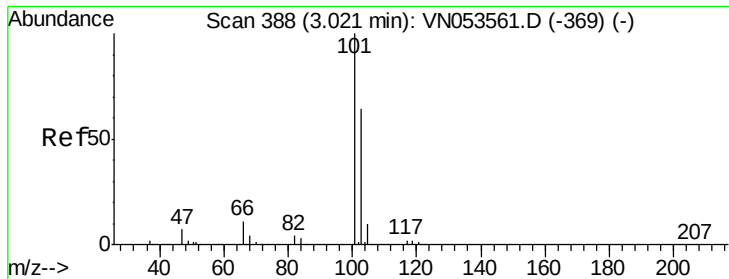
Tgt Ion: 64 Resp: 90336

Ion Ratio Lower Upper

64 100

66 33.3 25.1 37.7





#7

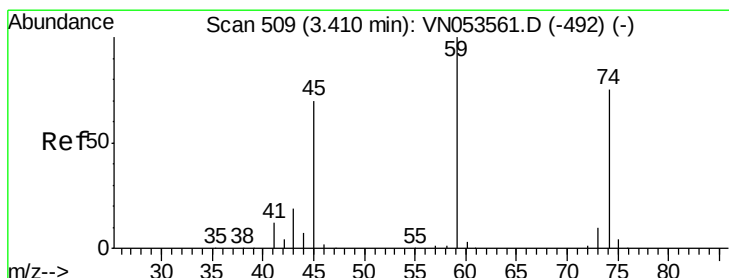
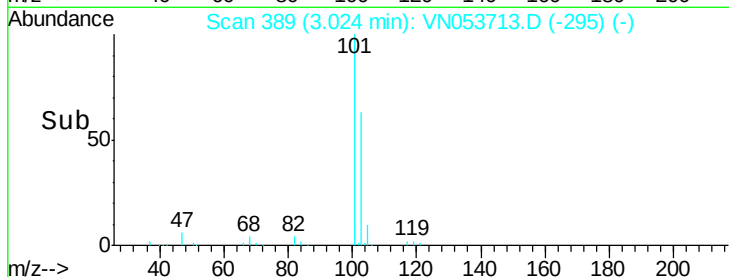
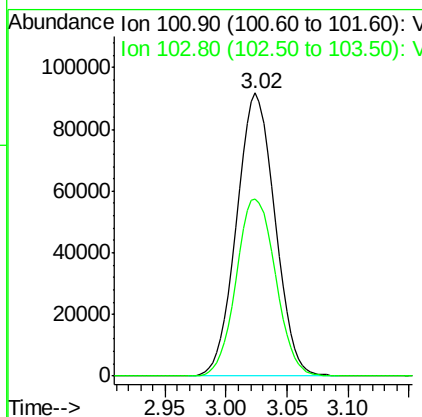
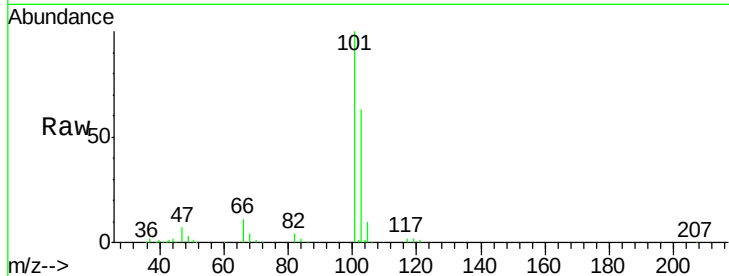
Trichlorofluoromethane
 Concen: 22.015 ug/l
 RT: 3.02 min Scan# 389
 Delta R.T. 0.00 min
 Lab File: VN053713.D
 Acq: 11 Feb 2019 19:01

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Tot Ion	Ratio	Lower	Upper
101	100		
103	62.8	51.6	77.4

Manual Integrations
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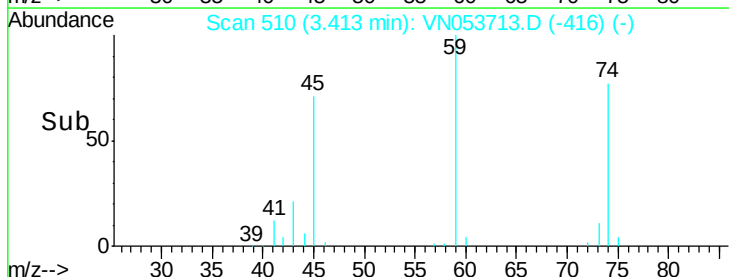
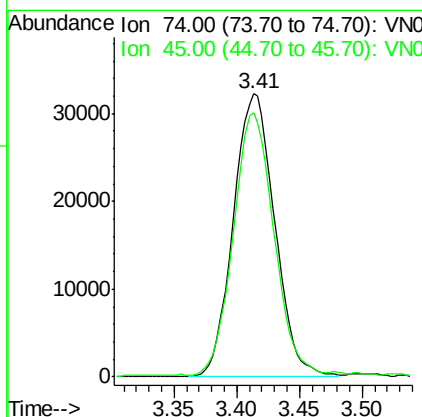
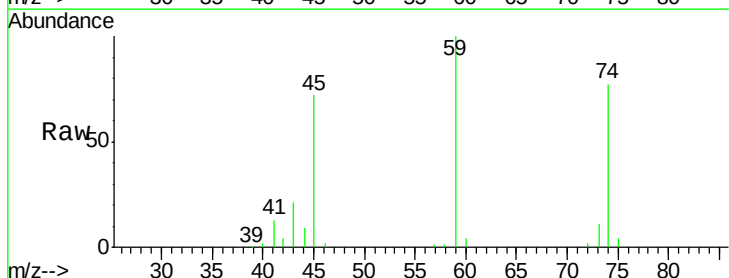
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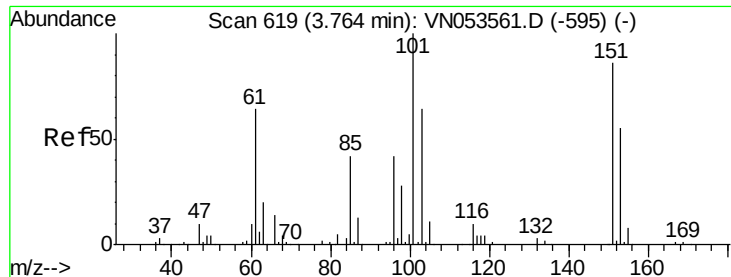


#8

Diethyl Ether
 Concen: 22.295 ug/l
 RT: 3.41 min Scan# 510
 Delta R.T. 0.00 min
 Lab File: VN053713.D
 Acq: 11 Feb 2019 19:01

Tgt Ion	Ratio	Lower	Upper
74	100		
45	90.4	47.9	143.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 21.335 ug/l

RT: 3.76 min Scan# 619

Delta R.T. 0.00 min

Lab File: VN053713.D

Acq: 11 Feb 2019 19:01

Instrument :

MSVOA_N

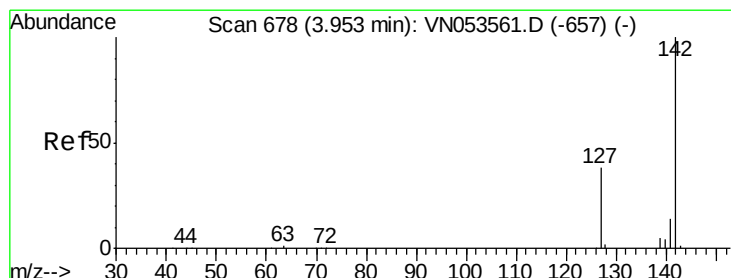
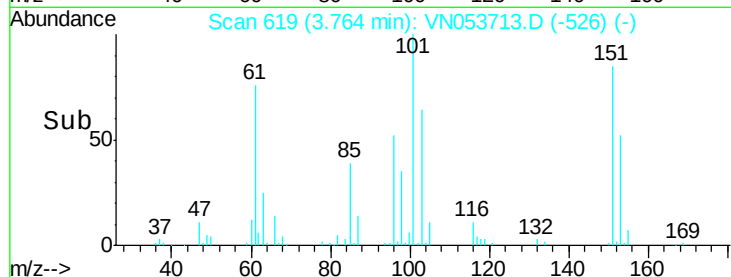
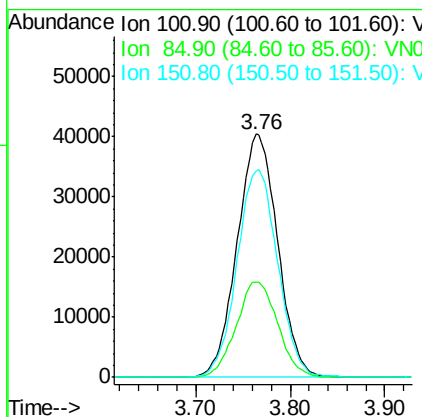
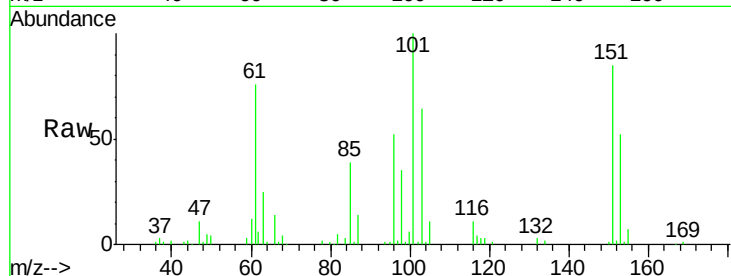
ClientSampleId :

VN0211WBSD01

Tot Ion:	101	Resp:	119993
Ion Ratio	Lower	Upper	
101	100		
85	40.3	32.8	49.2
151	86.2	66.9	100.3

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#10

Methyl Iodide

Concen: 14.673 ug/l

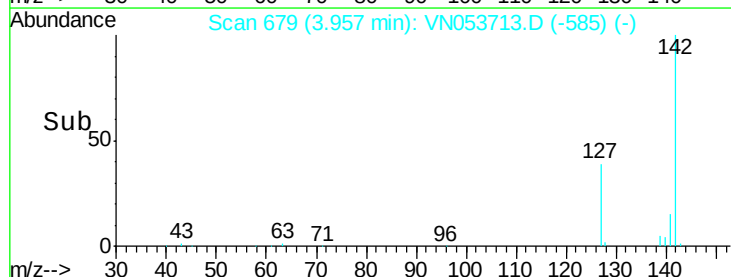
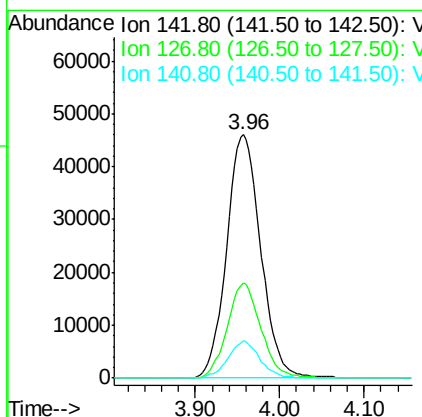
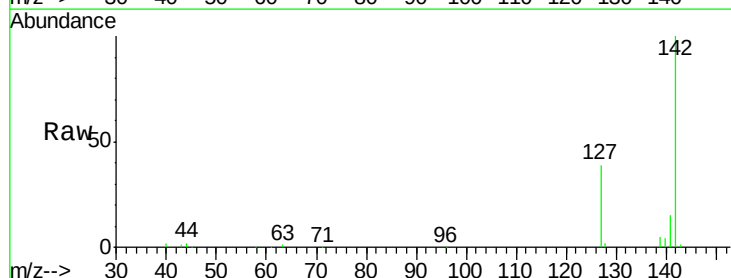
RT: 3.96 min Scan# 679

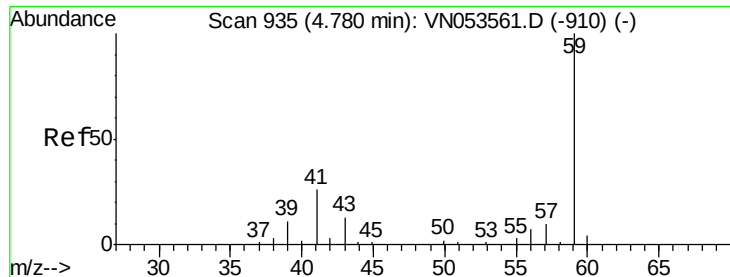
Delta R.T. 0.00 min

Lab File: VN053713.D

Acq: 11 Feb 2019 19:01

Tgt Ion:	142	Resp:	129527
Ion Ratio	Lower	Upper	
142	100		
127	38.4	31.0	46.4
141	14.3	11.1	16.7





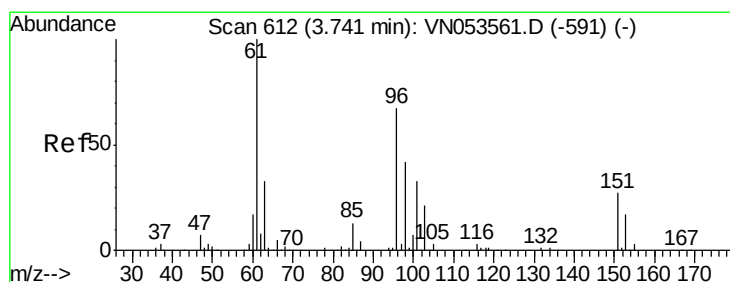
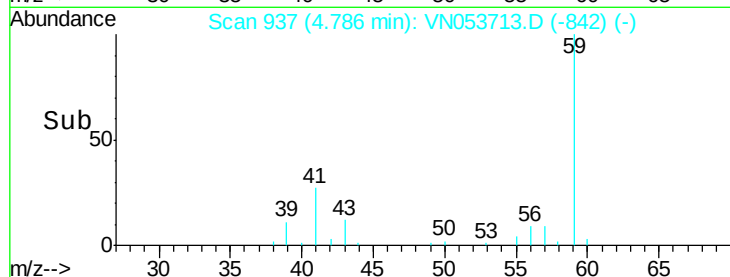
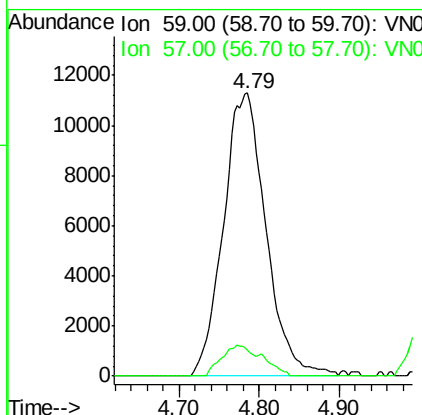
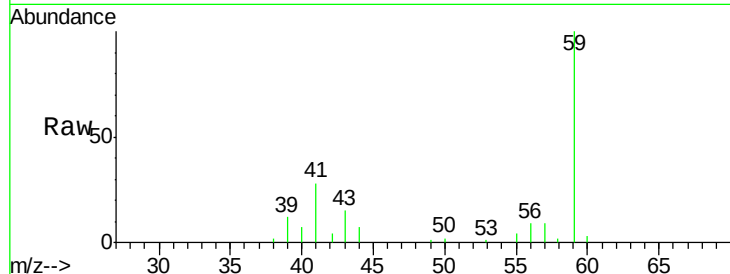
#11
Tert butyl alcohol
Concen: 118.258 ug/l
RT: 4.79 min Scan# 937
Delta R.T. 0.01 min
Lab File: VN053713.D
Acq: 11 Feb 2019 19:01

Instrument :
MSVOA_N
ClientSampleId :
VN0211WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
59	100	40855		
57	7.7		8.2	12.4#

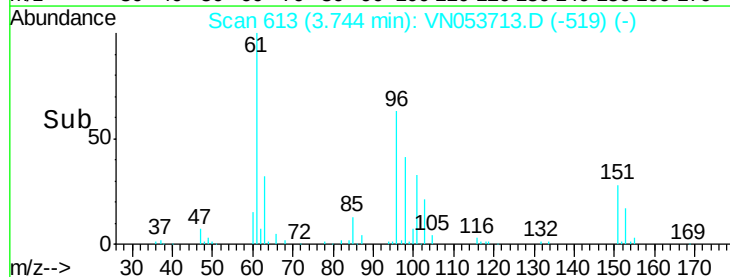
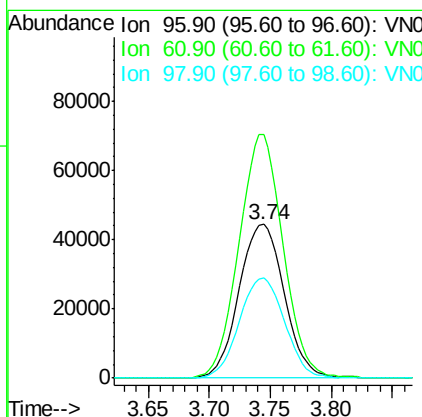
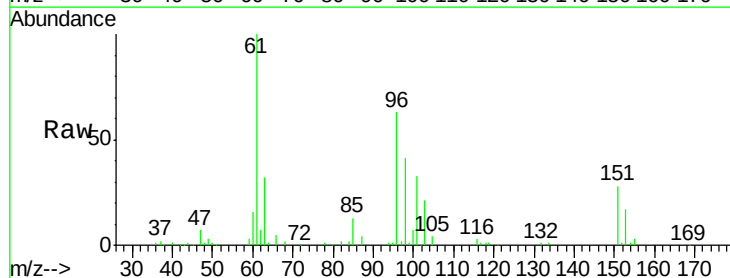
Manual Integrations
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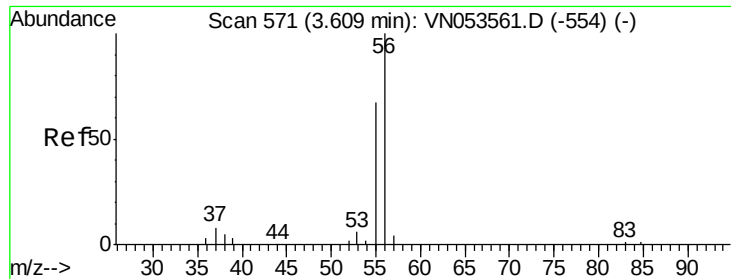
MMDadoda
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#12
1,1-Dichloroethene
Concen: 21.159 ug/l
RT: 3.74 min Scan# 613
Delta R.T. 0.00 min
Lab File: VN053713.D
Acq: 11 Feb 2019 19:01

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	114015		
61	158.0		122.9	184.3
98	64.8		49.4	74.0





#13

Acrolein

Concen: 86.706 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN053713.D

Acq: 11 Feb 2019 19:01

Instrument :

MSVOA_N

ClientSampleId :

VN0211WBSD01

Tot Ion: 56 Resp: 16309

Ion Ratio Lower Upper

56 100

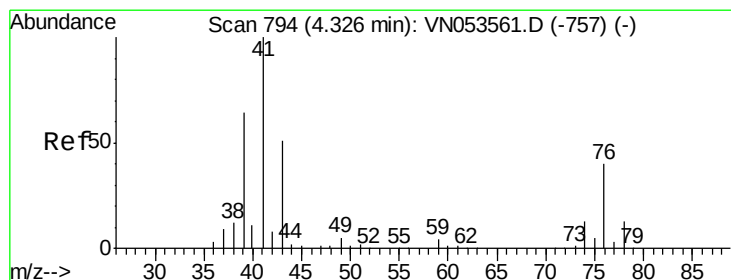
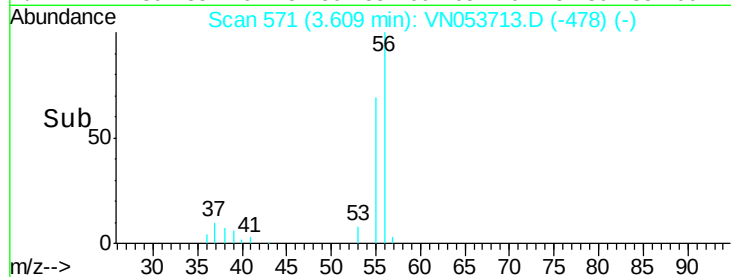
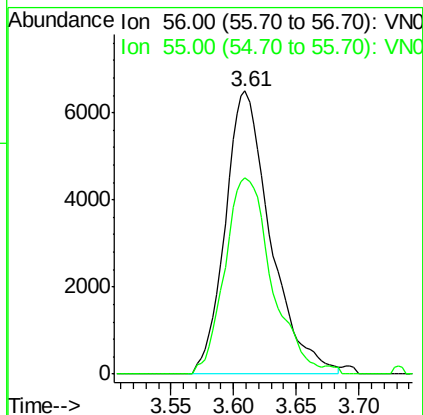
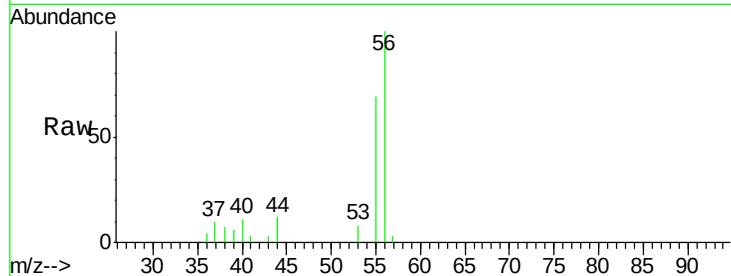
55 71.5 57.4 86.0

Manual Integrations

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#14

Allyl chloride

Concen: 21.271 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.00 min

Lab File: VN053713.D

Acq: 11 Feb 2019 19:01

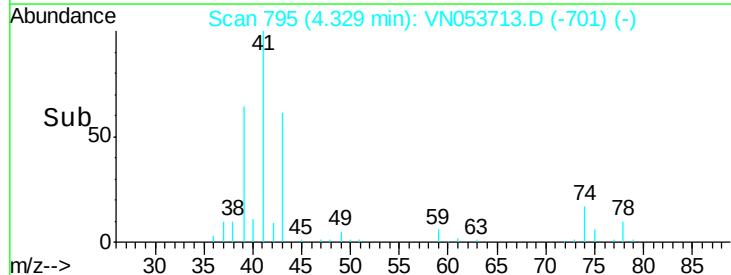
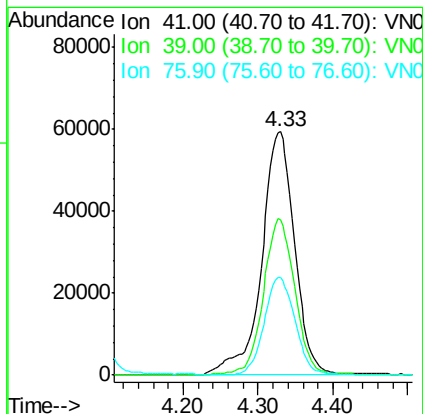
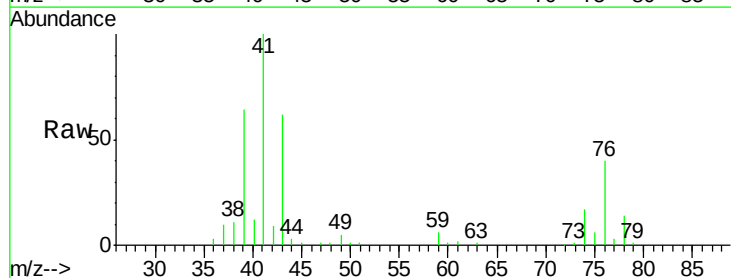
Tgt Ion: 41 Resp: 182492

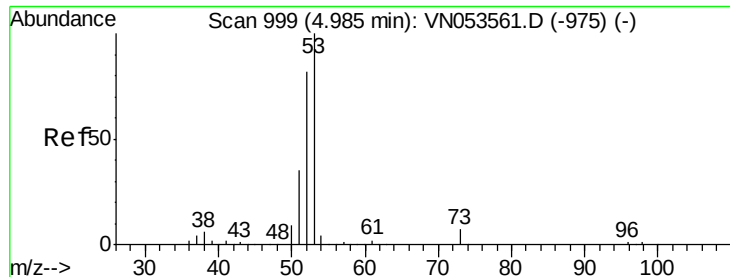
Ion Ratio Lower Upper

41 100

39 61.5 48.9 73.3

76 37.6 29.4 44.2





#15

Acrylonitrile

Concen: 118.736 ug/l

RT: 4.99 min Scan# 1001

Delta R.T. 0.01 min

Lab File: VN053713.D

Acq: 11 Feb 2019 19:01

Instrument :

MSVOA_N

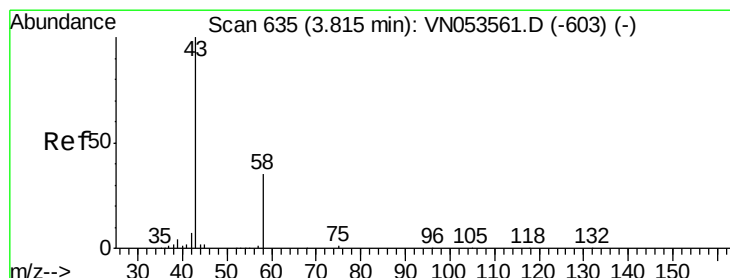
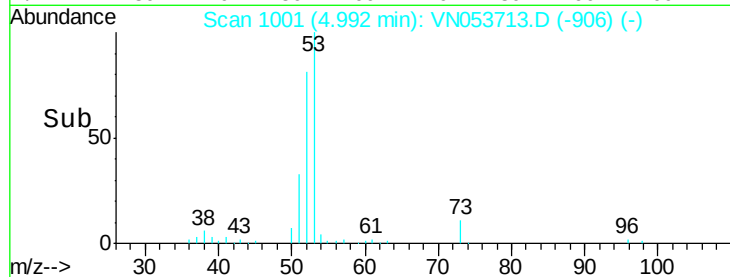
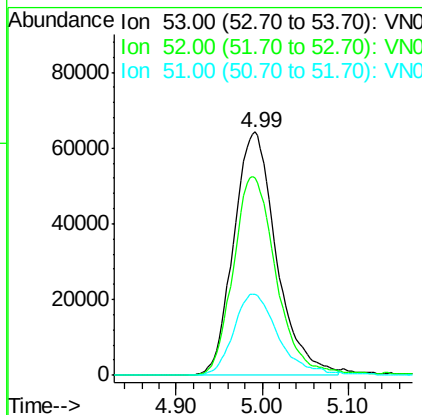
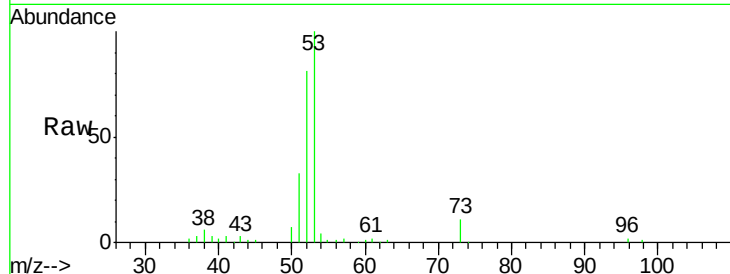
ClientSampleId :

VN0211WBSD01

Tot Ion:	53	Resp:	221447
Ion	Ratio	Lower	Upper
53	100		
52	82.2	66.0	99.0
51	34.8	28.3	42.5

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#16

Acetone

Concen: 95.064 ug/l

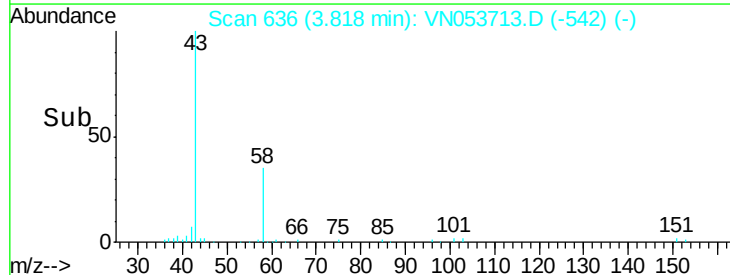
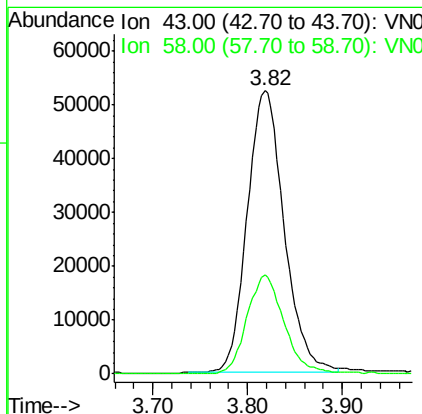
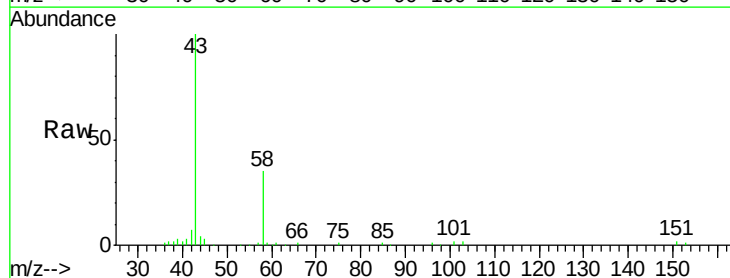
RT: 3.82 min Scan# 636

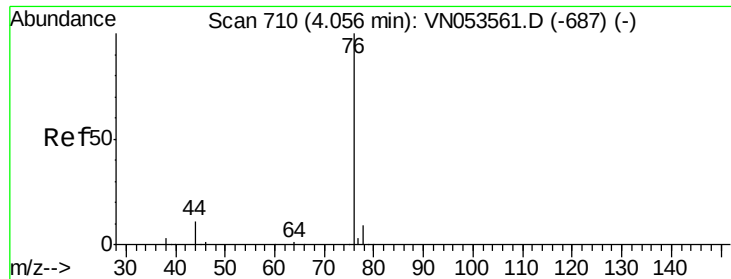
Delta R.T. 0.00 min

Lab File: VN053713.D

Acq: 11 Feb 2019 19:01

Tgt Ion:	43	Resp:	142340
Ion	Ratio	Lower	Upper
43	100		
58	35.3	27.1	40.7





#17

Carbon Disulfide

Concen: 19.033 ug/l

RT: 4.06 min Scan# 711

Delta R.T. 0.00 min

Lab File: VN053713.D

Acq: 11 Feb 2019 19:01

Instrument :

MSVOA_N

ClientSampled :

VN0211WBSD01

Tot Ion: 76 Resp: 319340

Ion Ratio Lower Upper

76 100

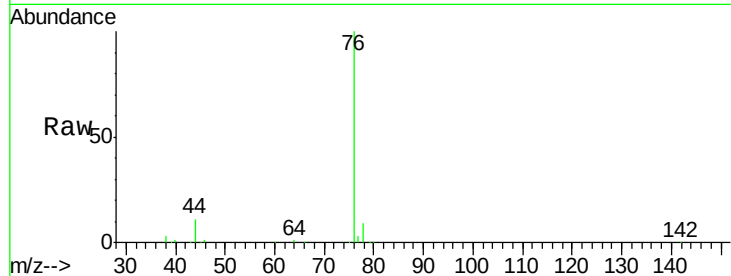
78 9.2 7.3 10.9

Manual Integrations

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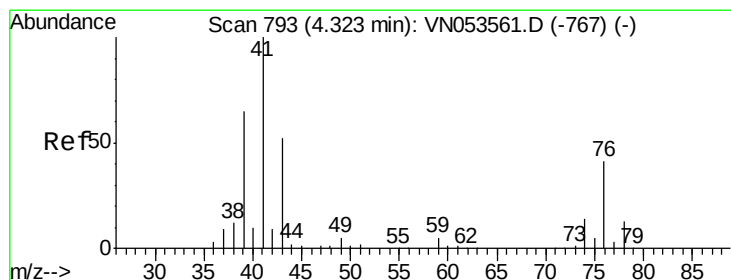
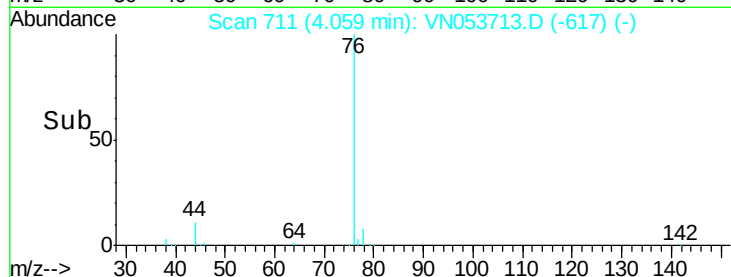
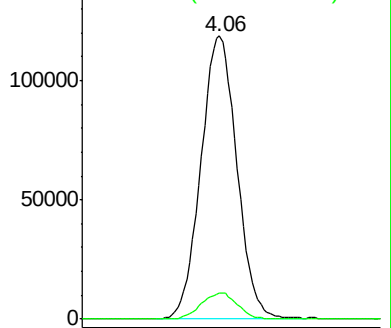
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Abundance Ion 75.90 (75.60 to 76.60): VNC

Ion 77.90 (77.60 to 78.60): VNC



#18

Methyl Acetate

Concen: 25.656 ug/l

RT: 4.33 min Scan# 794

Delta R.T. 0.00 min

Lab File: VN053713.D

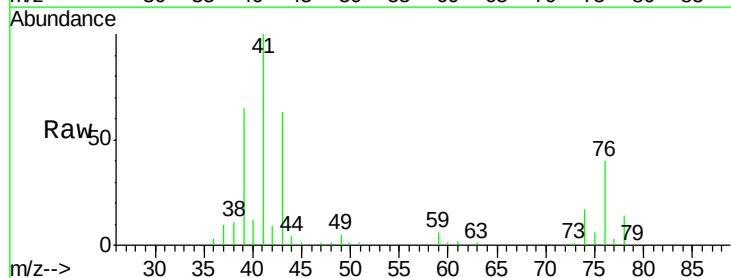
Acq: 11 Feb 2019 19:01

Tgt Ion: 43 Resp: 113766

Ion Ratio Lower Upper

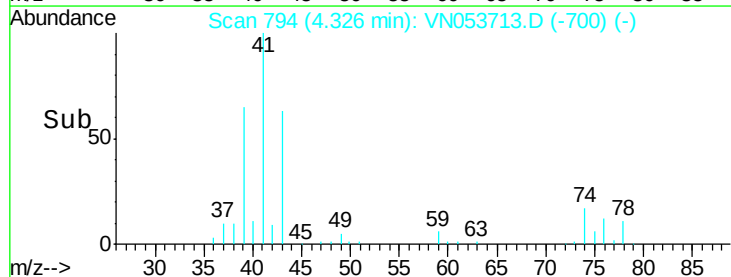
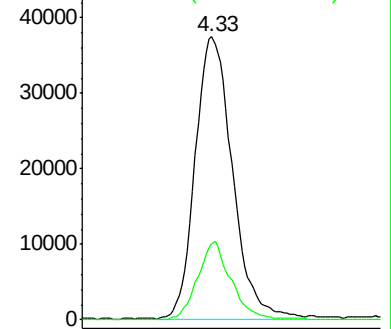
43 100

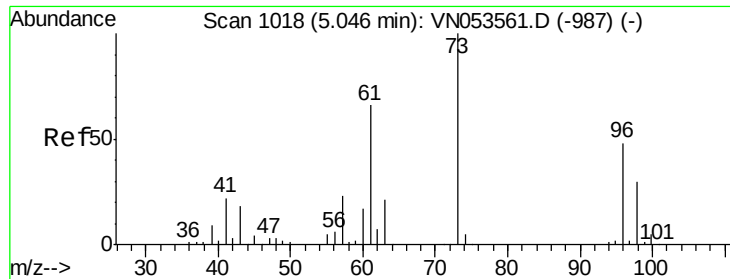
74 24.5 19.4 29.2



Abundance Ion 43.00 (42.70 to 43.70): VNC

Ion 74.00 (73.70 to 74.70): VNC





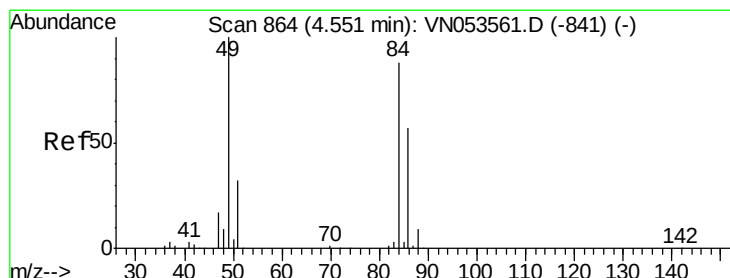
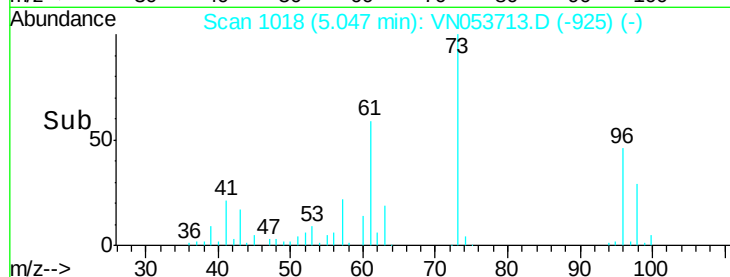
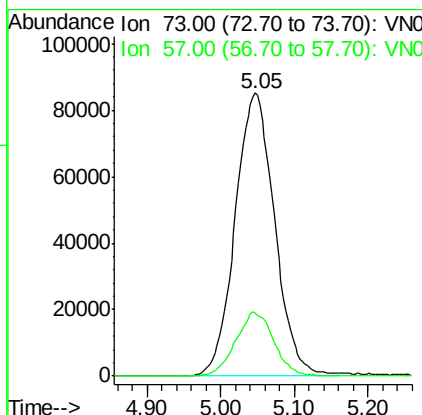
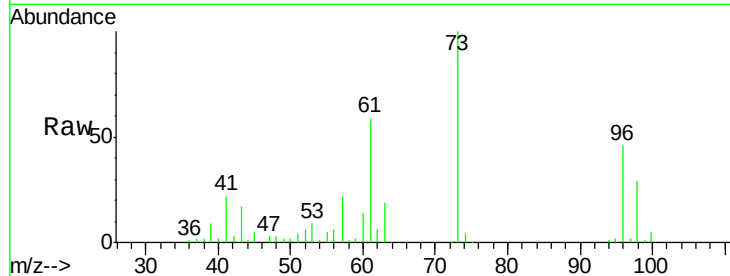
#19
Methyl tert-butyl Ether
Concen: 23.190 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VN053713.D
Acq: 11 Feb 2019 19:01

Instrument :
MSVOA_N
ClientSampleId :
VN0211WBSD01

Tot Ion	Ratio	Lower	Upper
73	100		
57	22.4	18.3	27.5

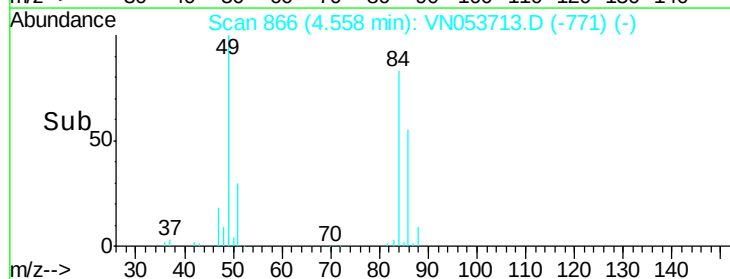
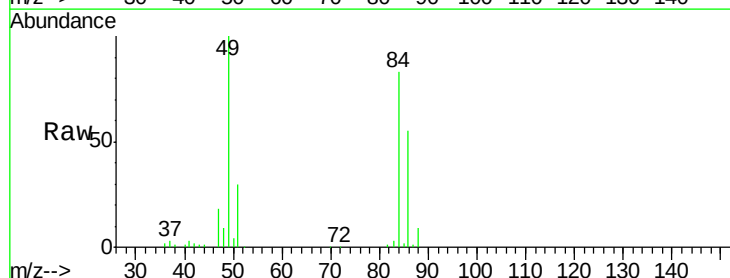
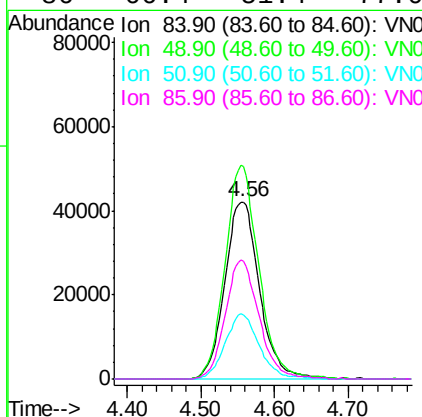
Manual Integrations
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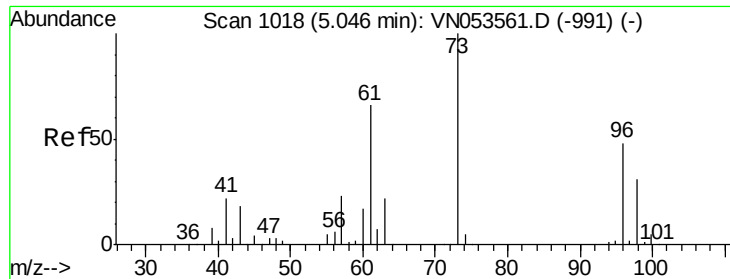
MMDadoda
2/12/2019 12:49:57 PM



#20
Methylene Chloride
Concen: 21.959 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.01 min
Lab File: VN053713.D
Acq: 11 Feb 2019 19:01

Tgt Ion	Ratio	Lower	Upper
84	100		
49	119.8	94.3	141.5
51	36.0	29.4	44.2
86	66.4	51.4	77.0





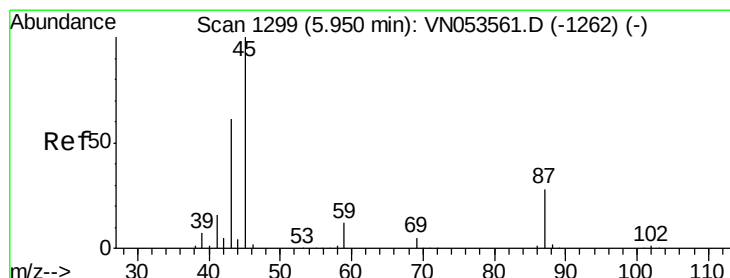
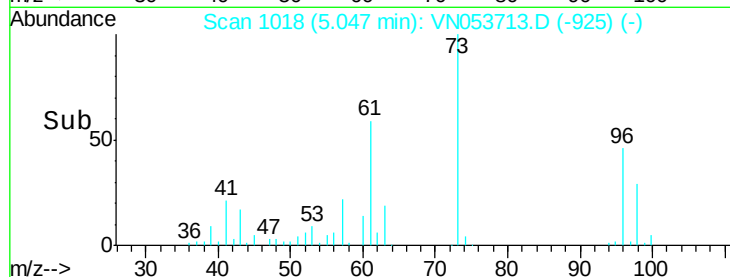
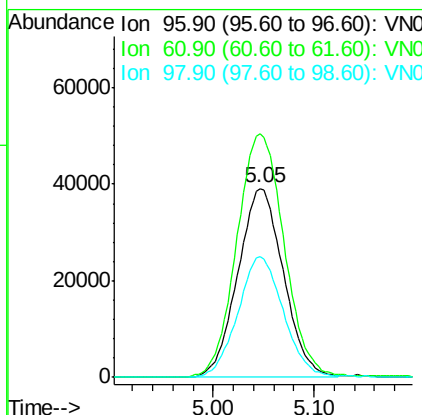
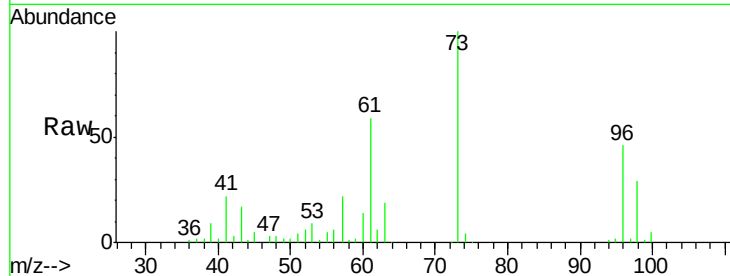
#21
trans-1,2-Dichloroethene
Concen: 21.104 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VN053713.D
Acq: 11 Feb 2019 19:01

Instrument :
MSVOA_N
ClientSampleId :
VN0211WBSD01

Tot Ion	Ratio	Lower	Upper
96	100		
61	128.5	110.1	165.1
98	63.8	50.0	75.0

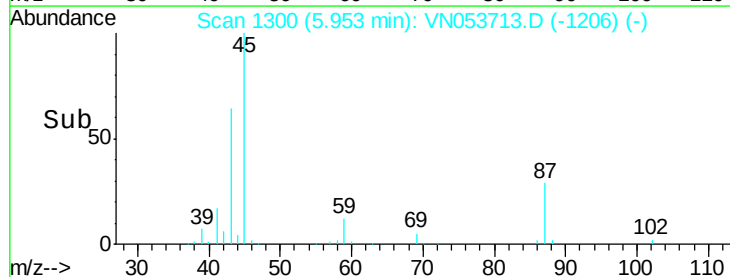
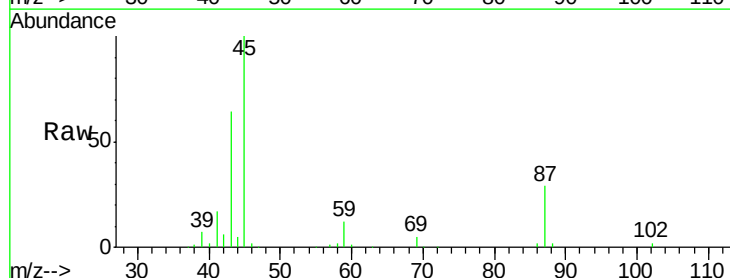
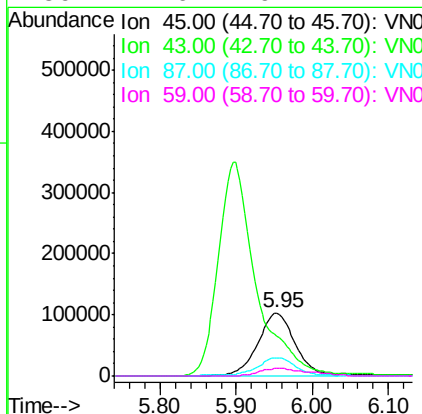
Manual Integrations
APPROVED

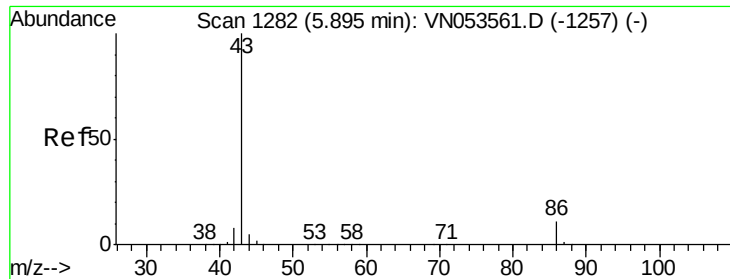
MMDadoda
2/12/2019 12:49:57 PM



#22
Diisopropyl ether
Concen: 22.062 ug/l
RT: 5.95 min Scan# 1300
Delta R.T. 0.00 min
Lab File: VN053713.D
Acq: 11 Feb 2019 19:01

Tgt Ion	Ratio	Lower	Upper
45	100		
43	61.9	44.2	66.4
87	28.2	22.7	34.1
59	11.6	9.4	14.2





#23

Vinyl Acetate

Concen: 110.689 ug/l

RT: 5.90 min Scan# 1282

Delta R.T. 0.00 min

Lab File: VN053713.D

Acq: 11 Feb 2019 19:01

Instrument :

MSVOA_N

ClientSampleId :

VN0211WBSD01

Tot Ion: 43 Resp: 1217290

Ion Ratio Lower Upper

43 100

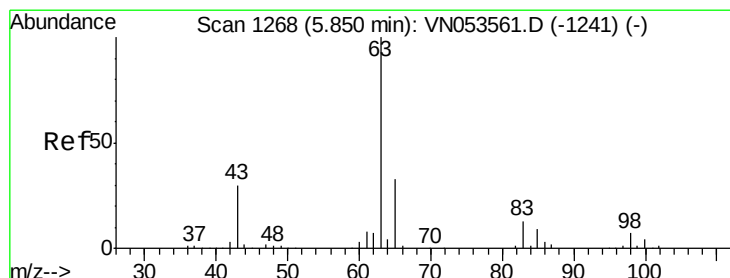
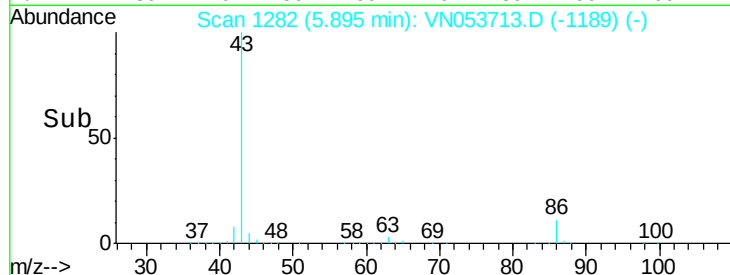
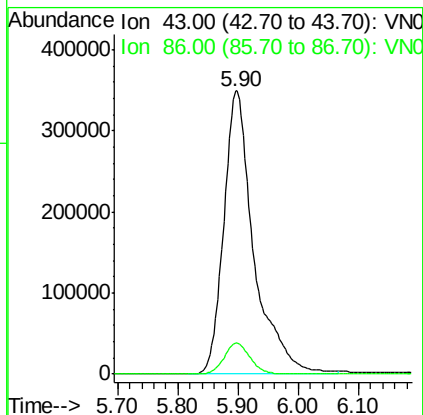
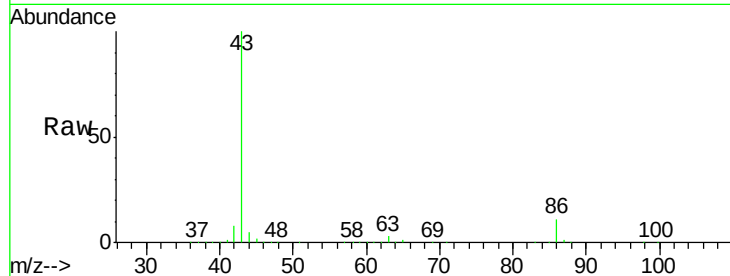
86 11.0 8.4 12.6

Manual Integrations

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2/12/2019 12:49:57 PM



#24

1,1-Dichloroethane

Concen: 21.812 ug/l

RT: 5.85 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VN053713.D

Acq: 11 Feb 2019 19:01

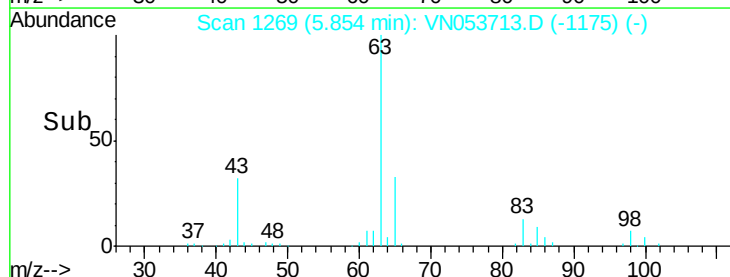
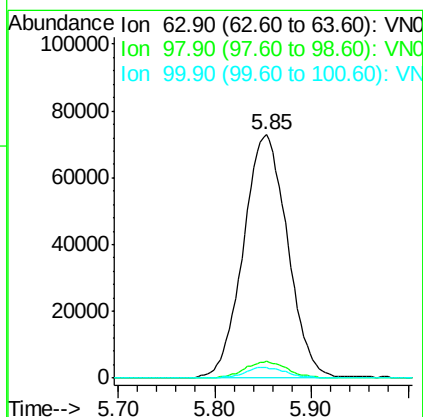
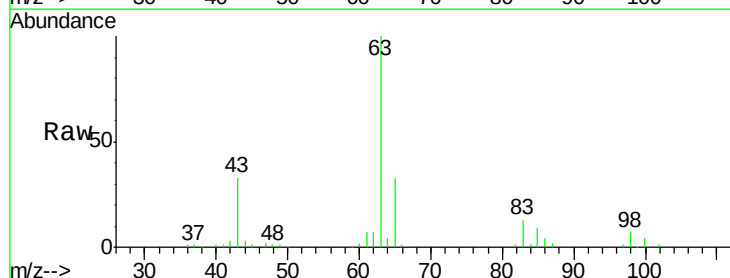
Tgt Ion: 63 Resp: 231276

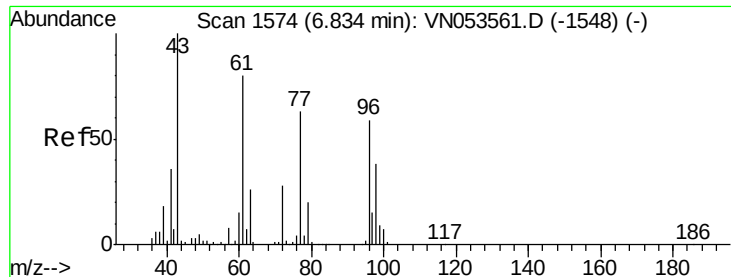
Ion Ratio Lower Upper

63 100

98 6.8 3.3 9.9

100 4.2 2.1 6.5





#25

2-Butanone

Concen: 107.812 ug/l

RT: 6.84 min Scan# 1575

Delta R.T. 0.00 min

Lab File: VN053713.D

Acq: 11 Feb 2019 19:01

Instrument :

MSVOA_N

ClientSampleId :

VN0211WBSD01

Tot Ion: 43 Resp: 230233

Ion Ratio Lower Upper

43 100

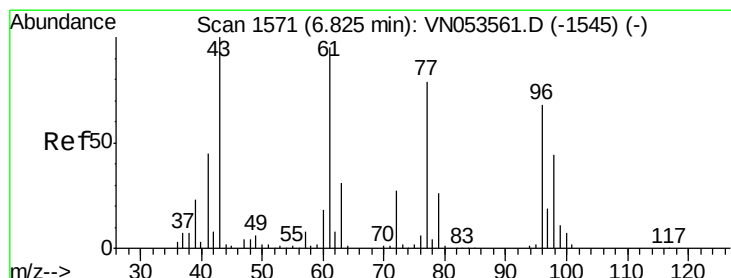
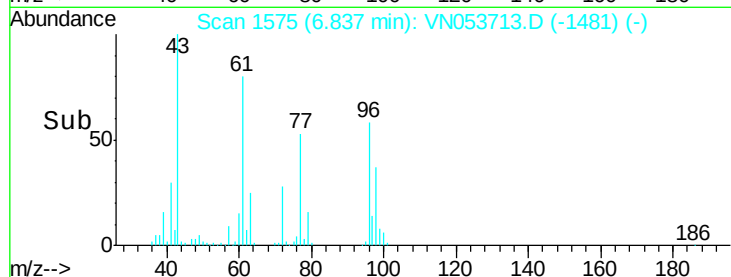
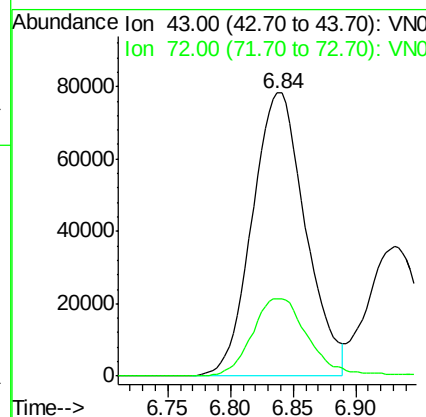
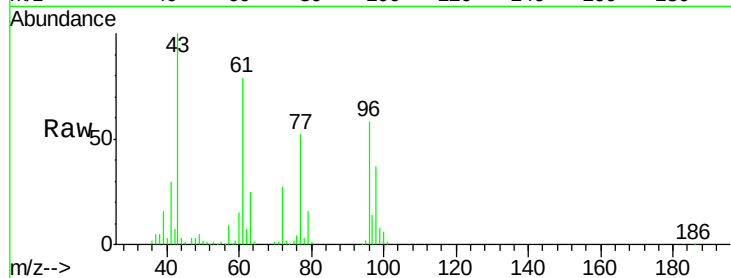
72 27.5 22.0 33.0

Manual Integrations

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2/12/2019 12:49:57 PM



#26

2,2-Dichloropropane

Concen: 18.405 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VN053713.D

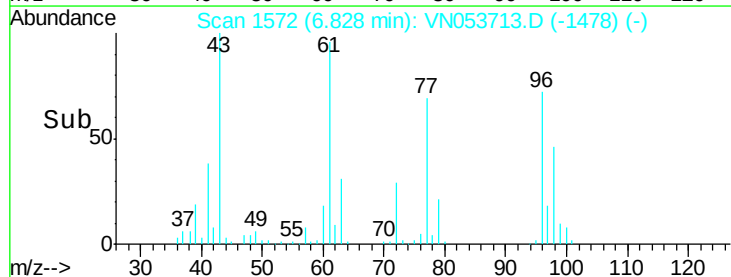
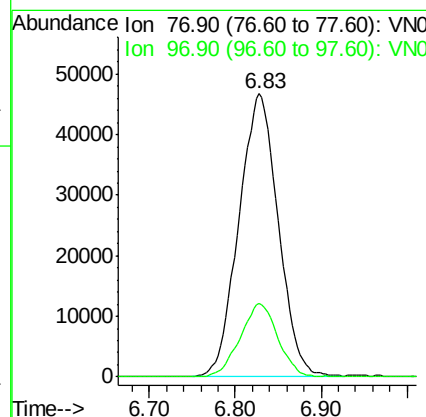
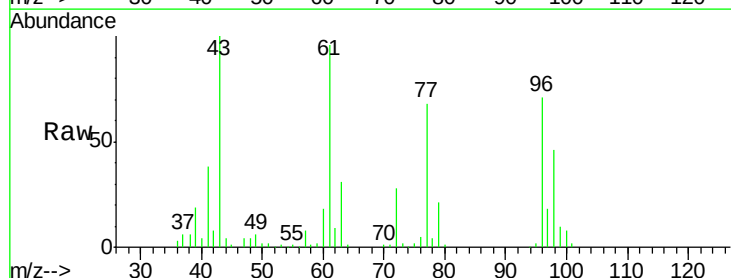
Acq: 11 Feb 2019 19:01

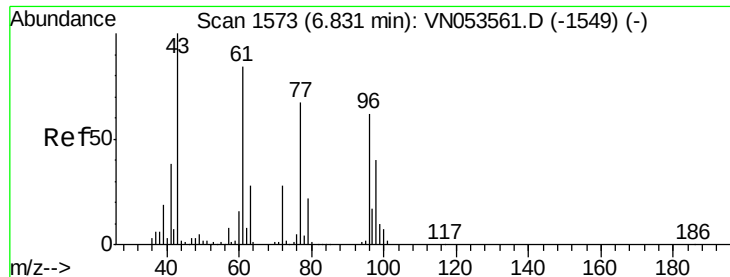
Tgt Ion: 77 Resp: 148972

Ion Ratio Lower Upper

77 100

97 24.6 12.2 36.6





#27

cis-1,2-Dichloroethene

Concen: 22.017 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. -0.00 min

Lab File: VN053713.D

Acq: 11 Feb 2019 19:01

Instrument :

MSVOA_N

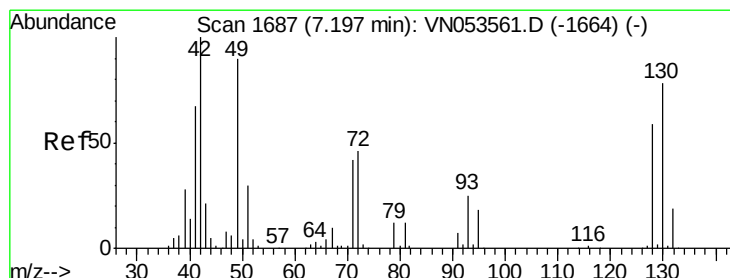
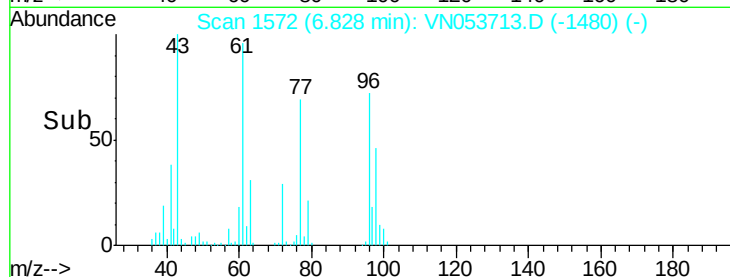
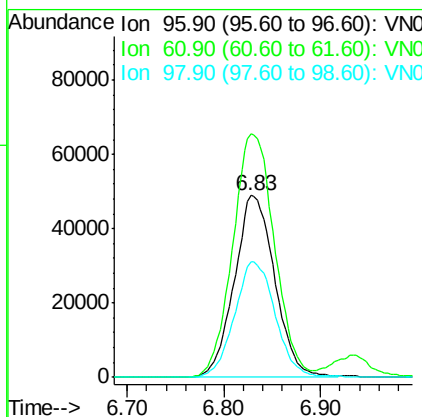
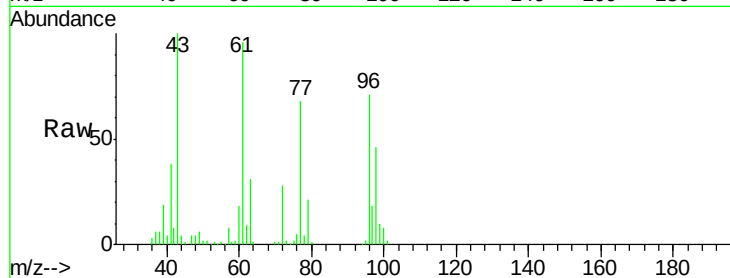
ClientSampleId :

VN0211WBSD01

Tot Ion:	96	Resp:	142322
Ion	Ratio	Lower	Upper
96	100		
61	137.8	0.0	283.8
98	64.0	0.0	129.2

Manual Integrations
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#28

Bromochloromethane

Concen: 21.826 ug/l

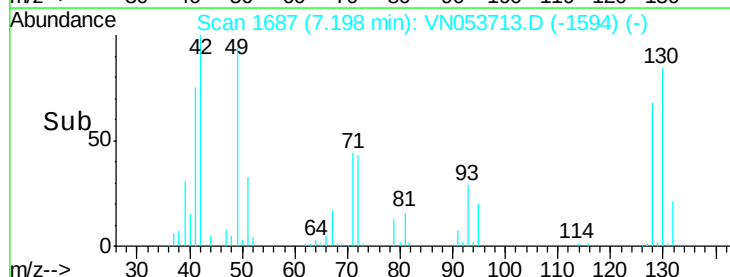
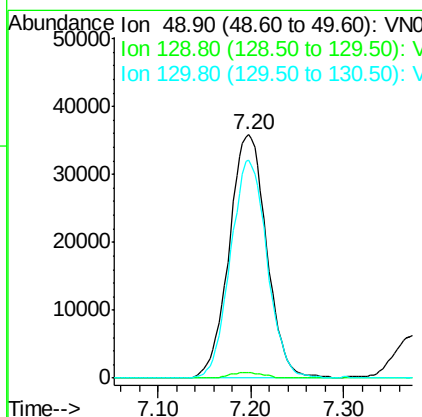
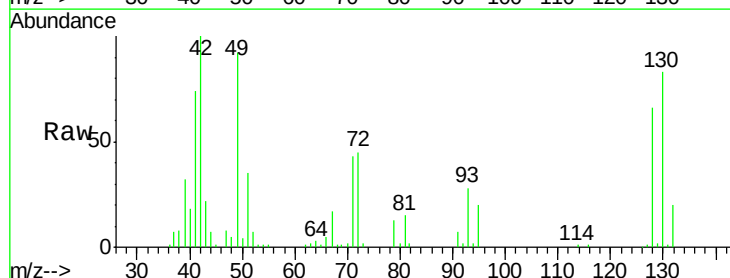
RT: 7.20 min Scan# 1687

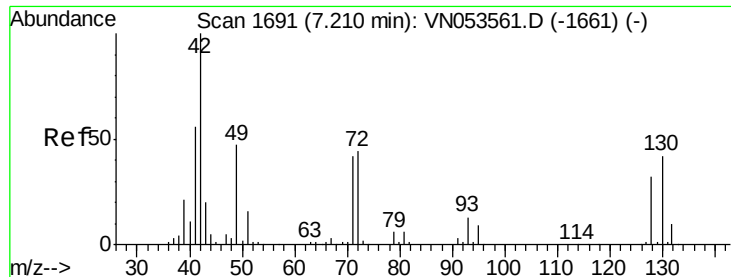
Delta R.T. 0.00 min

Lab File: VN053713.D

Acq: 11 Feb 2019 19:01

Tgt Ion:	49	Resp:	100429
Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	4.0
130	87.6	66.3	99.5





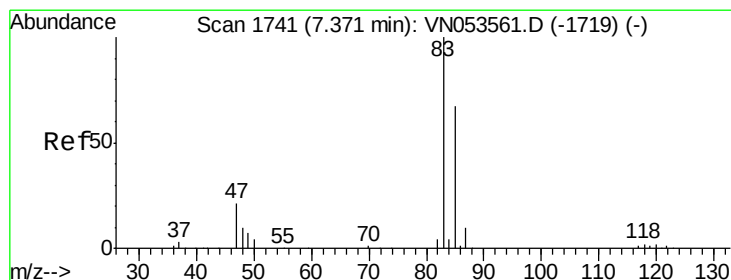
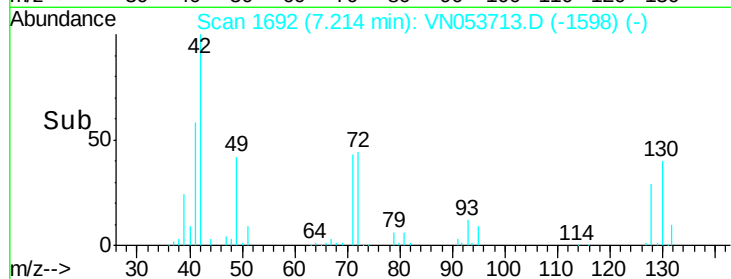
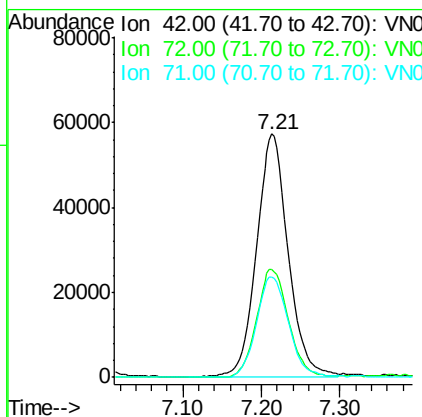
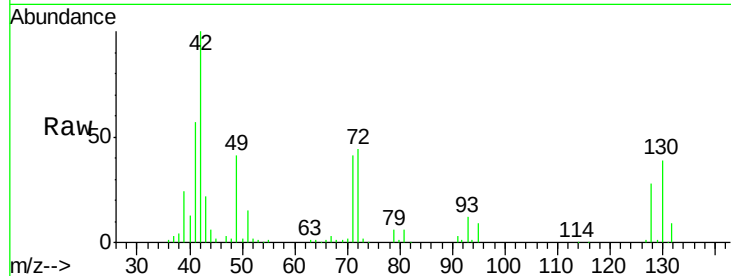
#29
Tetrahydrofuran
Concen: 117.854 ug/l
RT: 7.21 min Scan# 1692
Delta R.T. 0.00 min
Lab File: VN053713.D
Acq: 11 Feb 2019 19:01

Instrument :
MSVOA_N
ClientSampleId :
VN0211WBSD01

Tot Ion	Ratio	Lower	Upper
42	100		
72	45.5	35.2	52.8
71	42.5	33.0	49.4

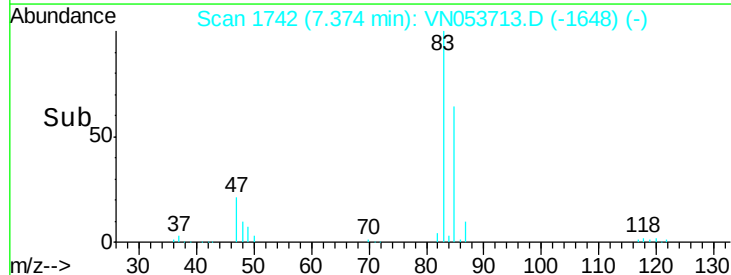
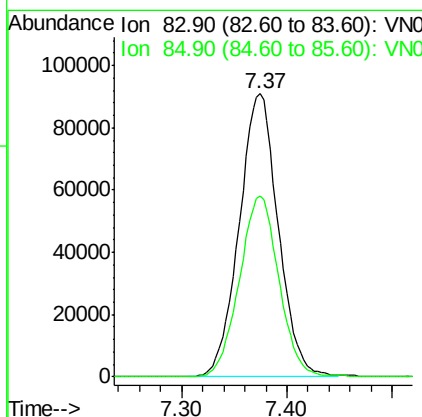
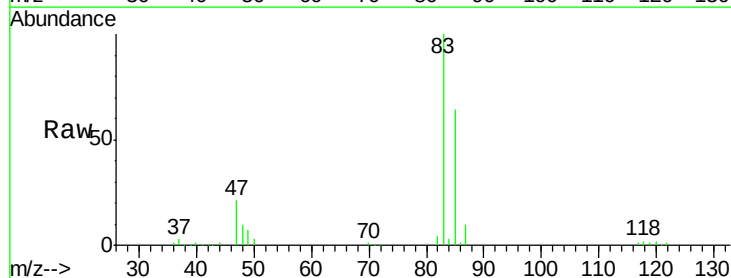
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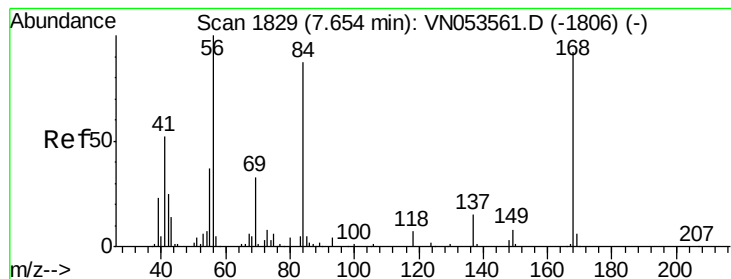
MMDadoda
2/12/2019 12:49:57 PM



#30
Chloroform
Concen: 22.291 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN053713.D
Acq: 11 Feb 2019 19:01

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.1	52.2	78.2





#31

Cyclohexane

Concen: 20.429 ug/l

RT: 7.66 min Scan# 1830

Delta R.T. 0.00 min

Lab File: VN053713.D

Acq: 11 Feb 2019 19:01

Instrument :

MSVOA_N

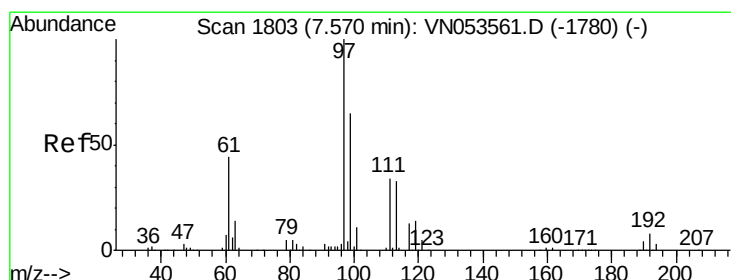
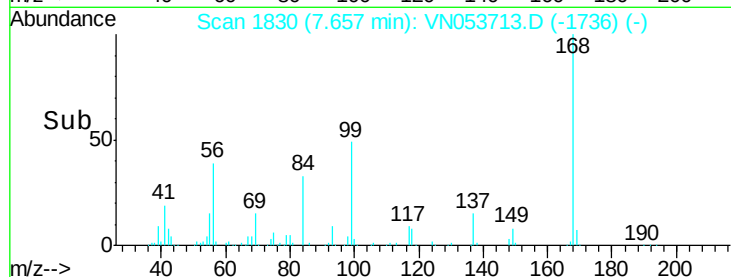
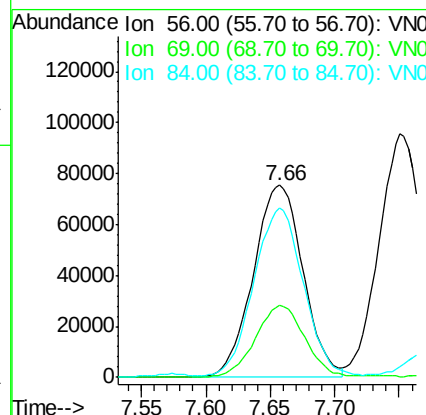
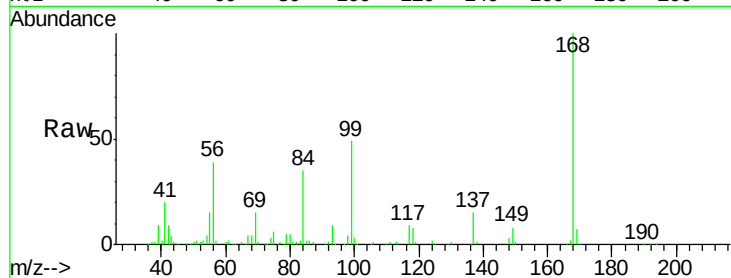
ClientSampleId :

VN0211WBSD01

Tot Ion:	56	Resp:	202661
Ion Ratio	Lower	Upper	
56	100		
69	37.3	26.4	39.6
84	87.3	67.9	101.9

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 22.131 ug/l

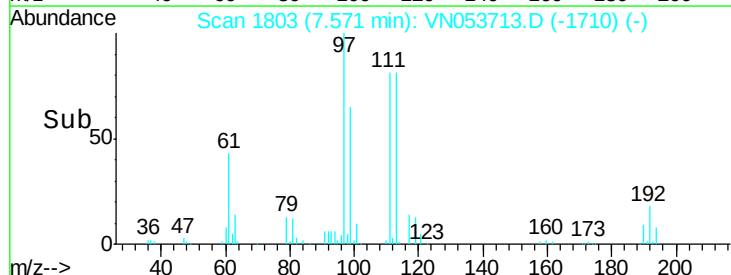
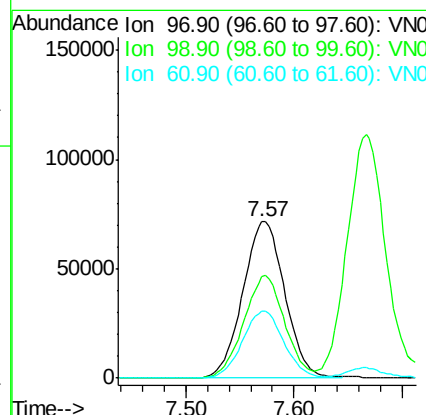
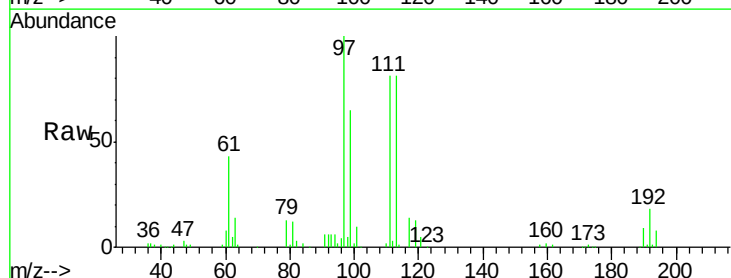
RT: 7.57 min Scan# 1803

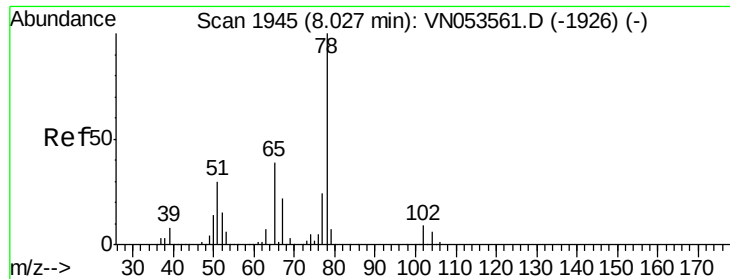
Delta R.T. 0.00 min

Lab File: VN053713.D

Acq: 11 Feb 2019 19:01

Tgt Ion:	97	Resp:	193584
Ion Ratio	Lower	Upper	
97	100		
99	63.8	52.0	78.0
61	42.5	34.4	51.6





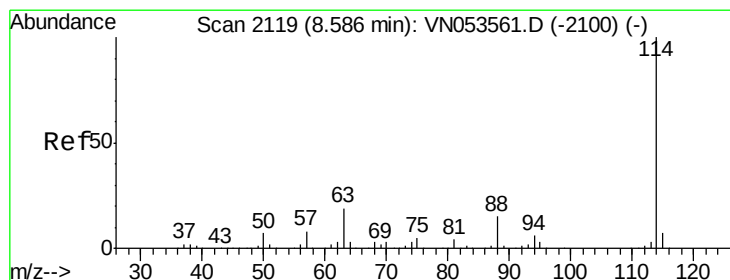
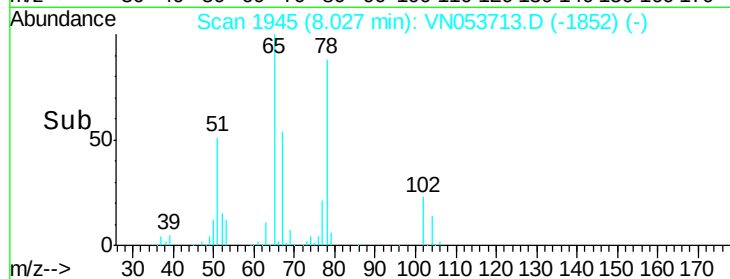
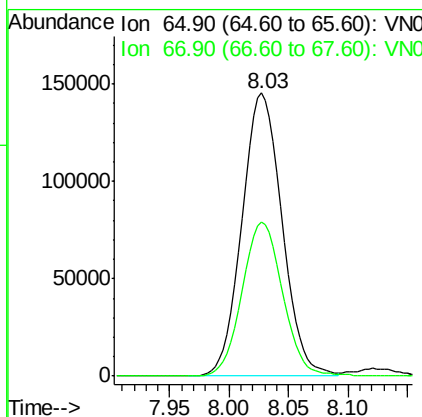
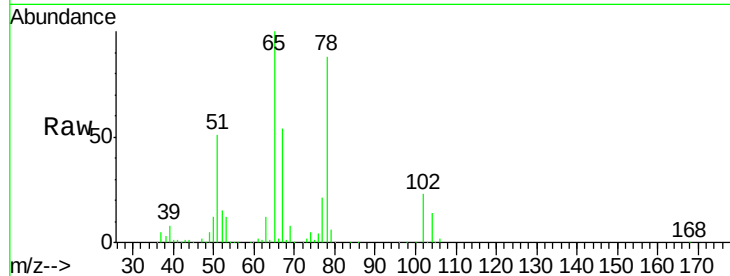
#33
 1,2-Dichloroethane-d4
 Concen: 58.293 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN053713.D
 Acq: 11 Feb 2019 19:01

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0211WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	55.0	0.0	111.2	

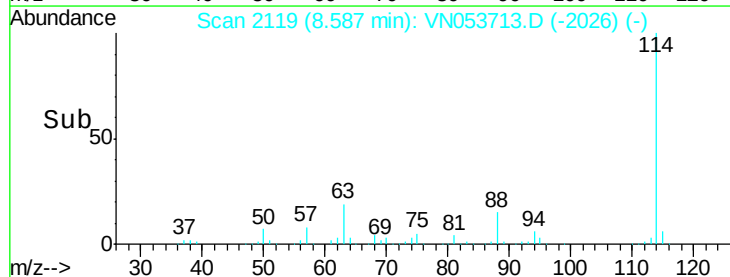
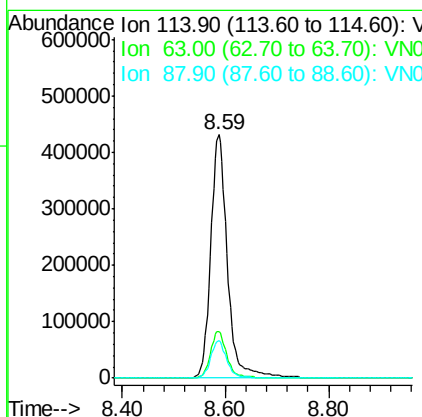
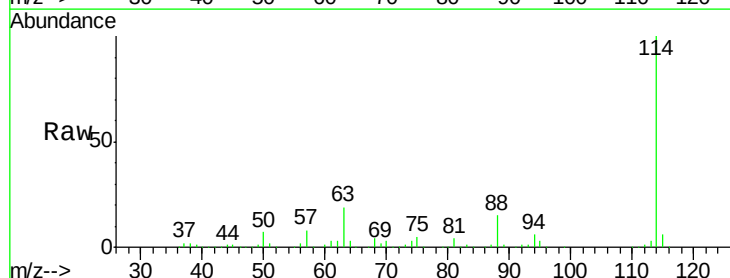
Manual Integrations
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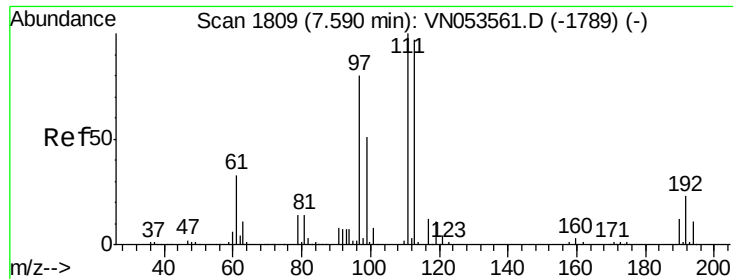
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 2/12/2019 12:49:57 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053713.D
 Acq: 11 Feb 2019 19:01

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	19.3	0.0	38.6	
88	15.4	0.0	30.4	





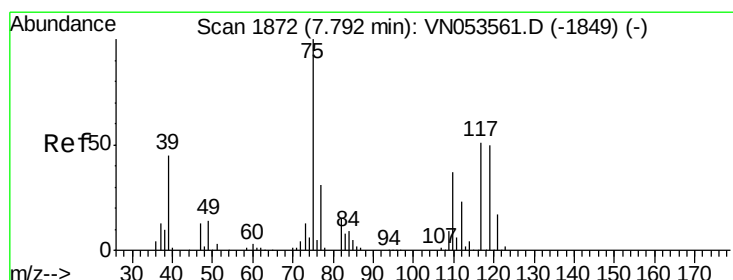
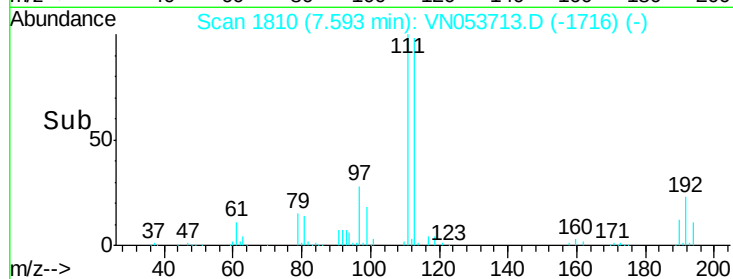
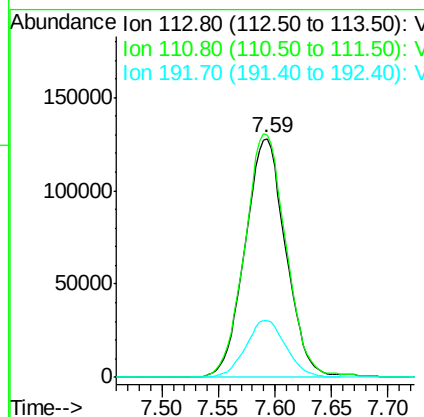
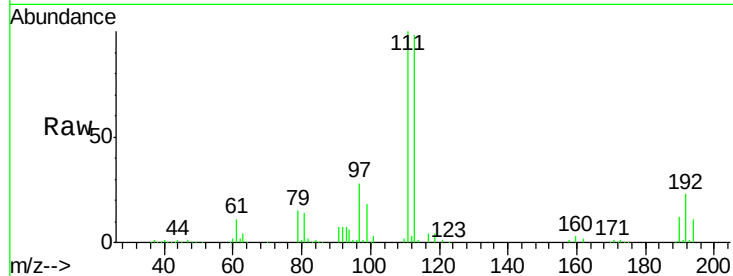
#35
Dibromofluoromethane
Concen: 51.948 ug/l
RT: 7.59 min Scan# 1810
Delta R.T. 0.00 min
Lab File: VN053713.D
Acq: 11 Feb 2019 19:01

Instrument :
MSVOA_N
ClientSampled :
VN0211WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	104.2	81.1	121.7	
192	23.7	18.2	27.2	

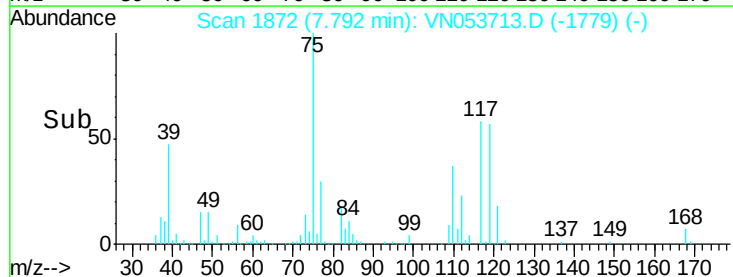
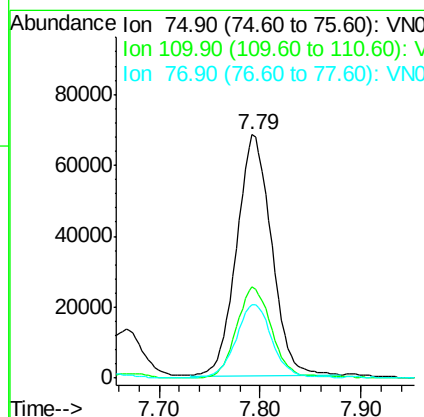
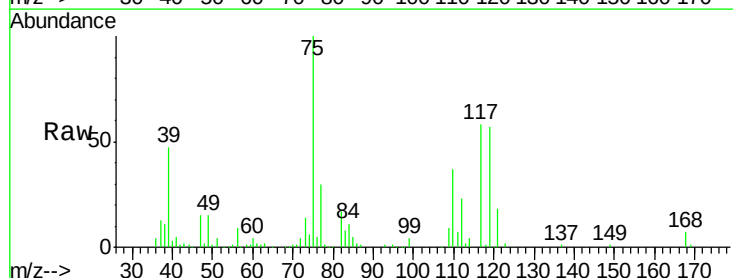
Manual Integrations
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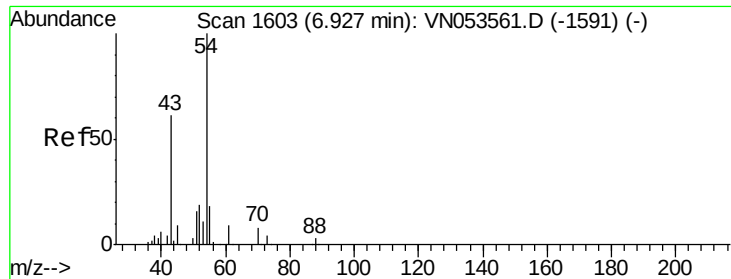
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#36
1,1-Dichloropropene
Concen: 18.647 ug/l
RT: 7.79 min Scan# 1872
Delta R.T. 0.00 min
Lab File: VN053713.D
Acq: 11 Feb 2019 19:01

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
110	38.2	18.1	54.3	
77	31.8	25.1	37.7	





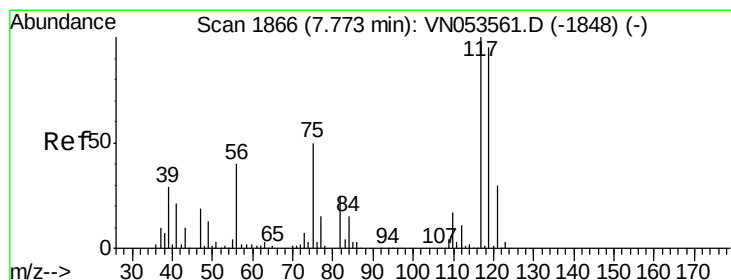
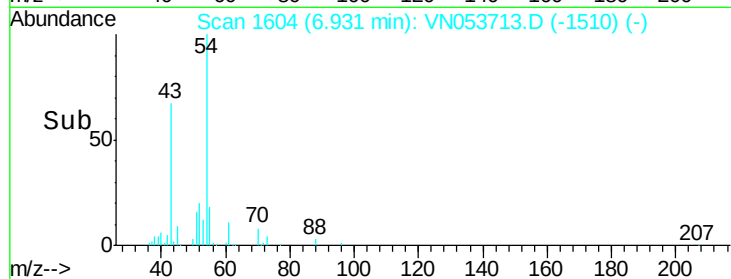
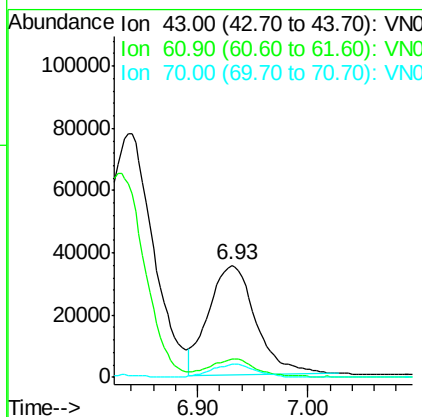
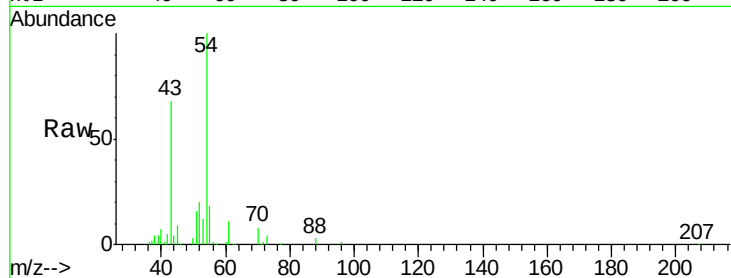
#37
Ethyl Acetate
Concen: 21.356 ug/l
RT: 6.93 min Scan# 1604
Delta R.T. 0.00 min
Lab File: VN053713.D
Acq: 11 Feb 2019 19:01

Instrument :
MSVOA_N
ClientSampleId :
VN0211WBSD01

Tot Ion	43	Resp	104773
Ion Ratio	100	Lower	Upper
43	100		
61	15.1	11.8	17.6
70	11.3	8.6	12.8

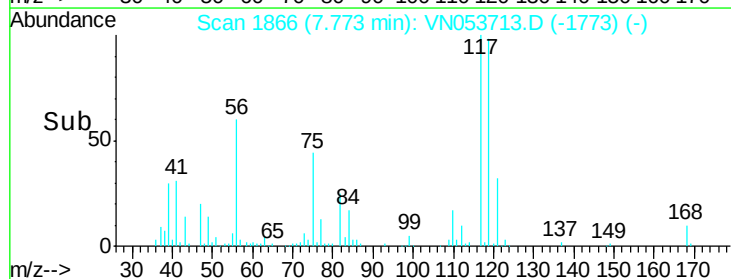
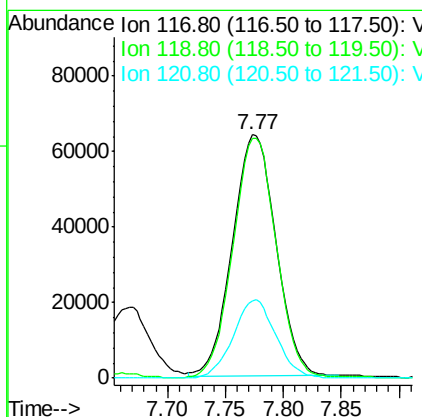
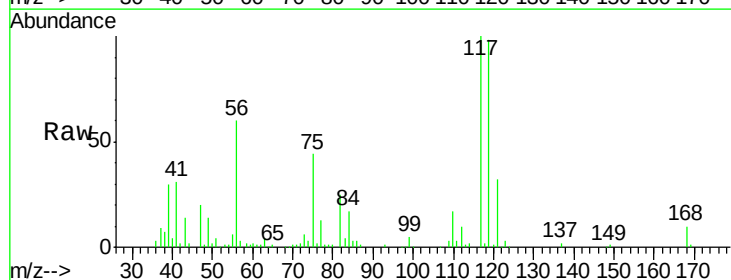
Manual Integrations
APPROVED

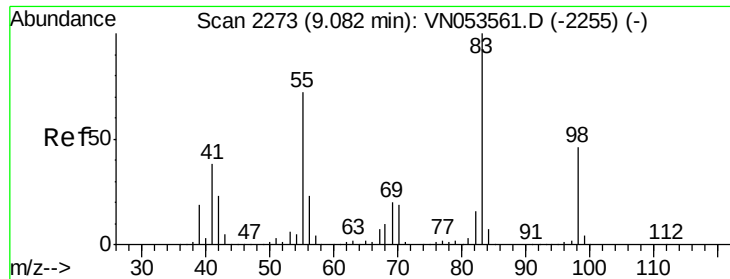
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#38
Carbon Tetrachloride
Concen: 18.855 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. 0.00 min
Lab File: VN053713.D
Acq: 11 Feb 2019 19:01

Tgt Ion	117	Resp	166846
Ion Ratio	100	Lower	Upper
117	100		
119	99.0	77.2	115.8
121	32.1	24.6	37.0





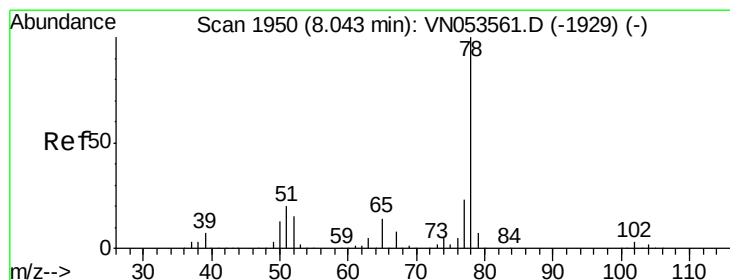
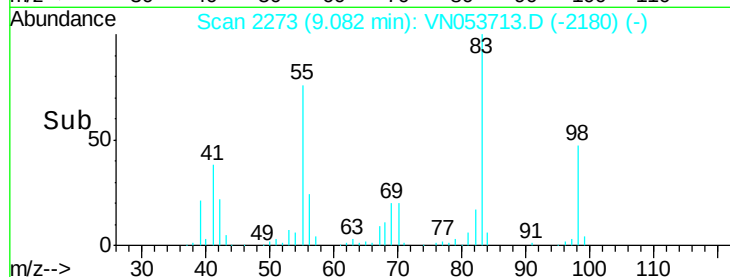
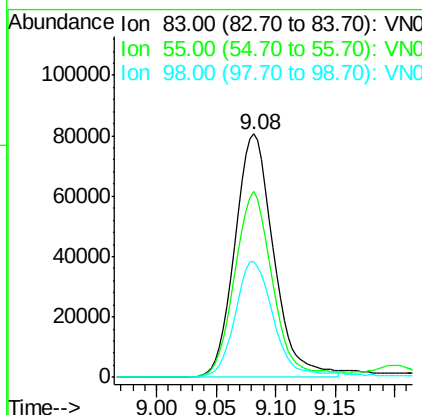
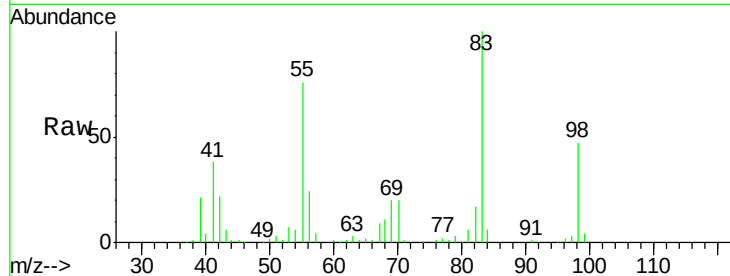
#39
Methylvlcyclohexane
Concen: 17.528 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN053713.D
Acq: 11 Feb 2019 19:01

Instrument :
MSVOA_N
ClientSampleId :
VN0211WBSD01

Tot Ion	Ratio	Lower	Upper
83	100		
55	76.2	60.1	90.1
98	47.4	36.6	55.0

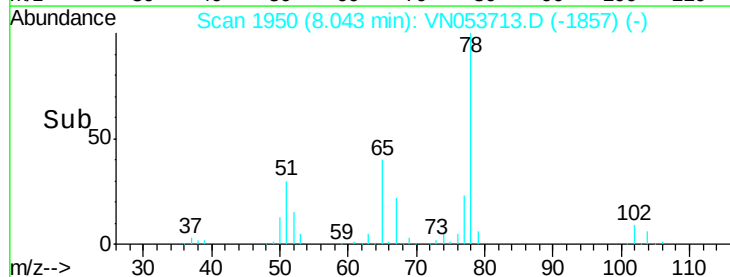
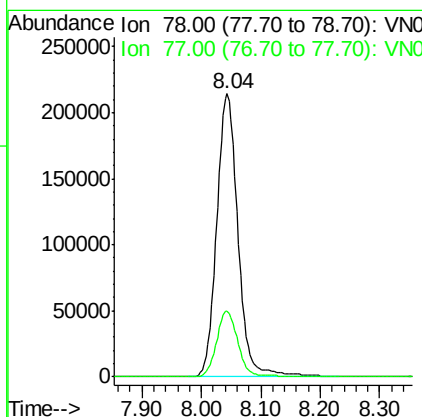
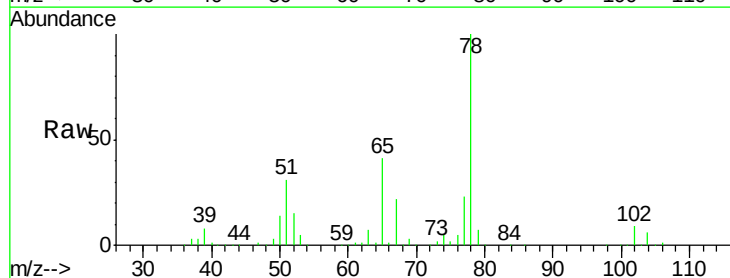
Manual Integrations
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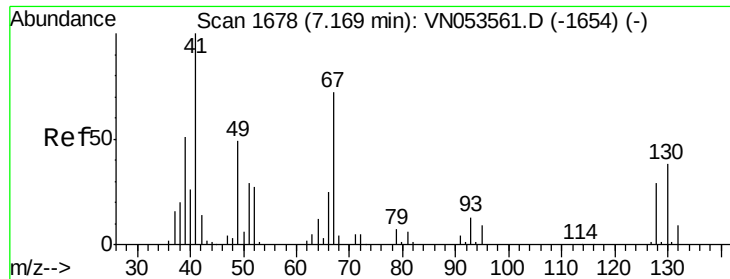
MMDadoda
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#40
Benzene
Concen: 19.637 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN053713.D
Acq: 11 Feb 2019 19:01

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.3	18.8	28.2





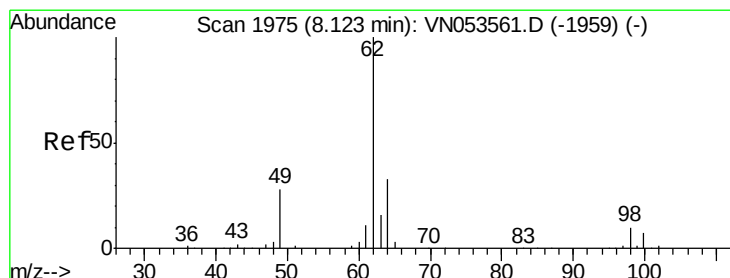
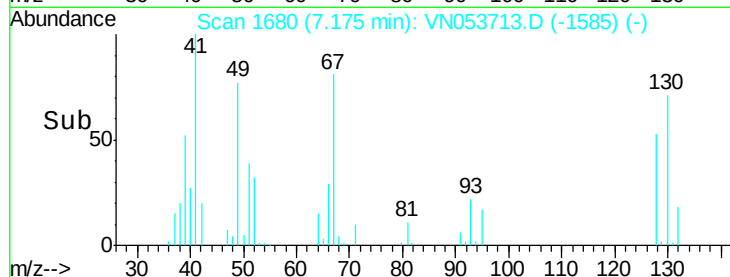
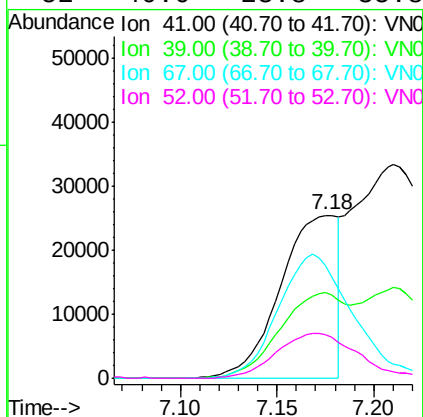
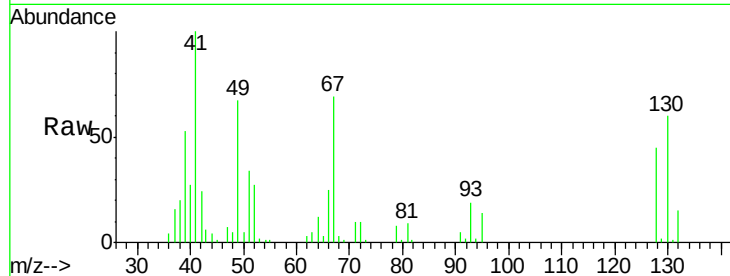
#41
Methacrylonitrile
Concen: 19.170 ug/l
RT: 7.18 min Scan# 1680
Delta R.T. 0.01 min
Lab File: VN053713.D
Acq: 11 Feb 2019 19:01

Instrument :
MSVOA_N
ClientSampleId :
VN0211WBSD01

Tot Ion	Ratio	Lower	Upper
41	100		
39	60.8	46.8	70.2
67	99.3	63.0	94.6#
52	40.0	23.8	35.8#

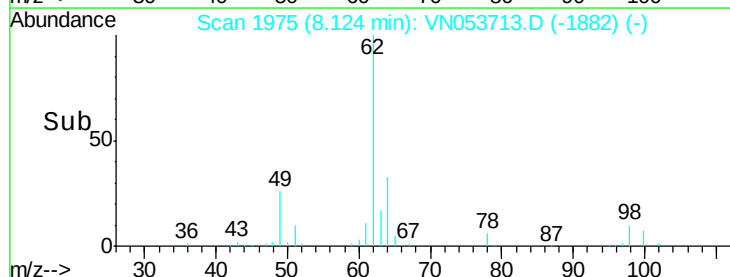
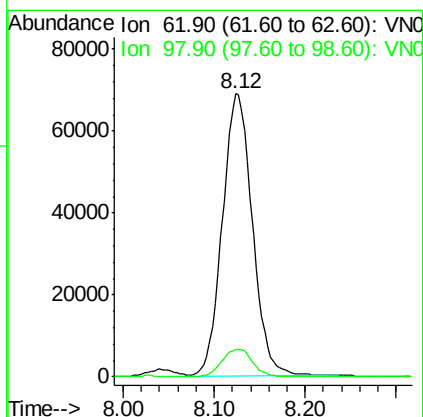
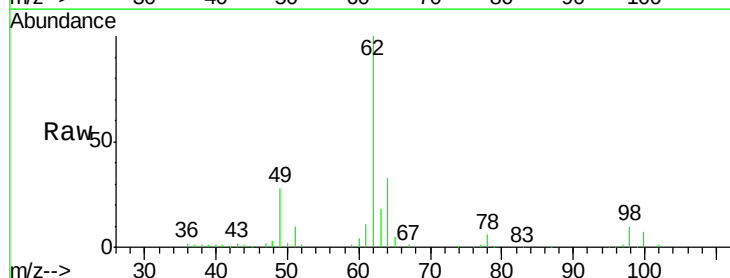
Manual Integrations
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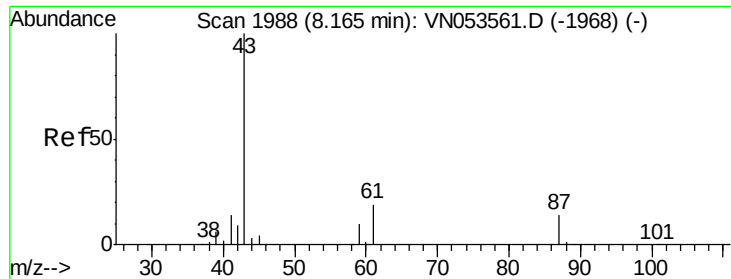
MMDadoda
2/12/2019 12:49:57 PM



#42
1,2-Dichloroethane
Concen: 19.661 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. 0.00 min
Lab File: VN053713.D
Acq: 11 Feb 2019 19:01

Tgt Ion	Ratio	Lower	Upper
62	100		
98	10.0	0.0	19.6





#43

Isopropyl Acetate

Concen: 20.847 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN053713.D

Acq: 11 Feb 2019 19:01

Instrument :

MSVOA_N

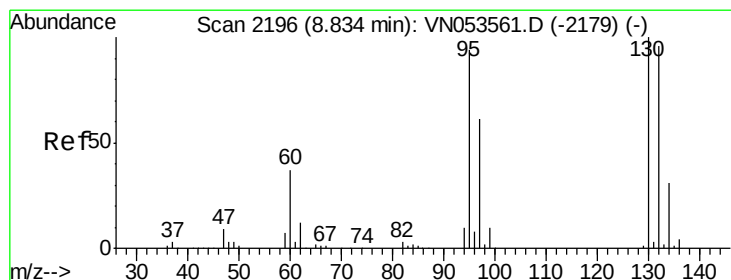
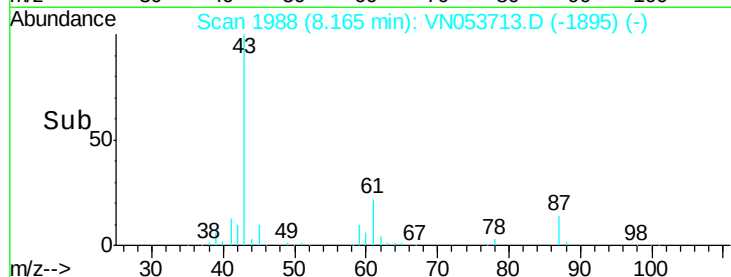
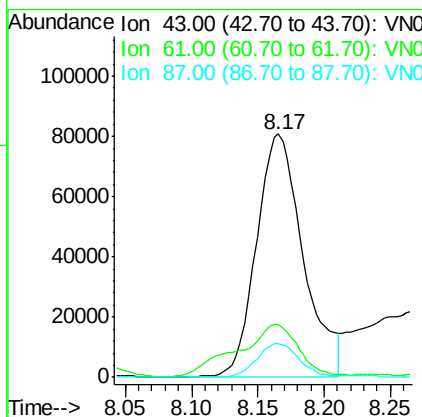
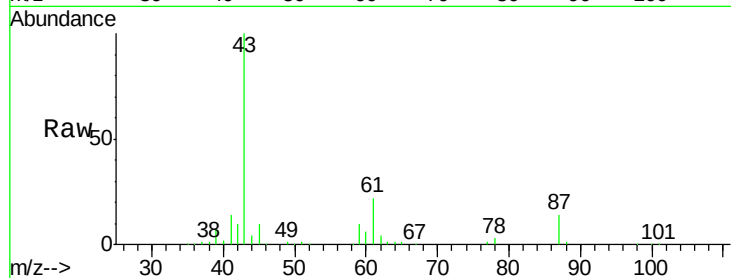
ClientSampleId :

VN0211WBSD01

Tot Ion:	43	Resp:	197513
Ion	Ratio	Lower	Upper
43	100		
61	27.8	23.9	35.9
87	12.9	11.0	16.6

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#44

Trichloroethene

Concen: 19.330 ug/l

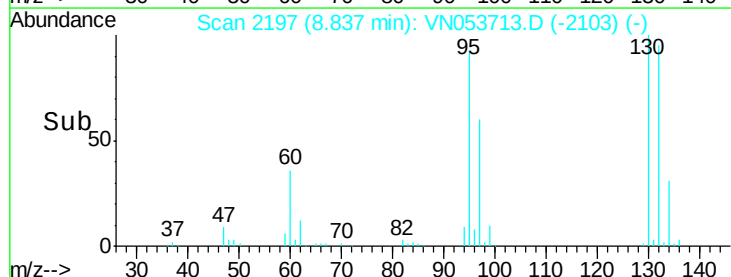
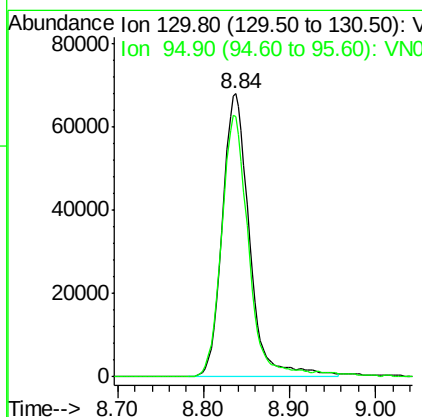
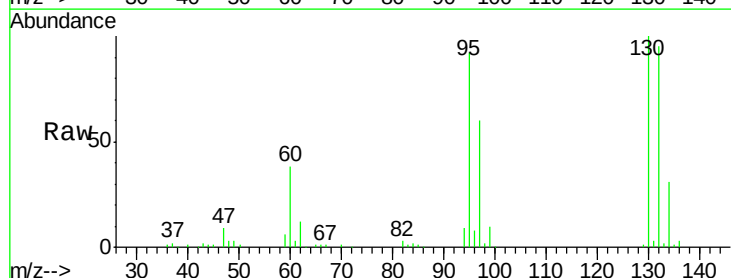
RT: 8.84 min Scan# 2197

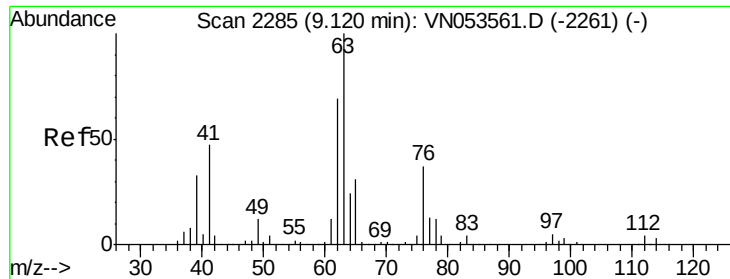
Delta R.T. 0.00 min

Lab File: VN053713.D

Acq: 11 Feb 2019 19:01

Tgt Ion:	130	Resp:	149065
Ion	Ratio	Lower	Upper
130	100		
95	91.9	0.0	191.4





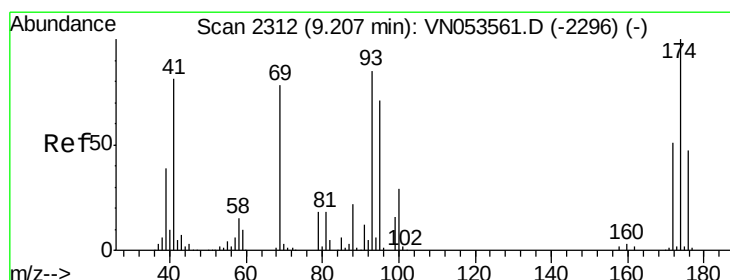
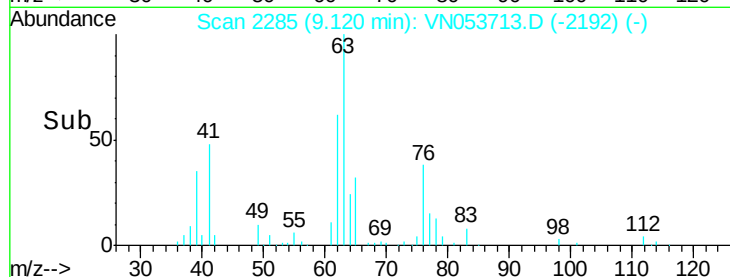
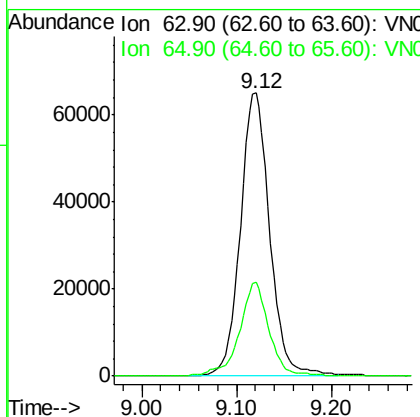
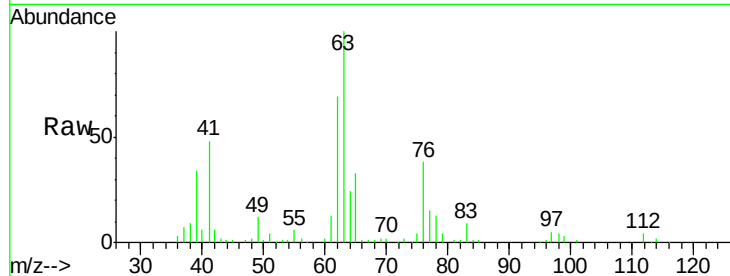
#45
 1,2-Dichloropropane
 Concen: 20.208 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN053713.D
 Acq: 11 Feb 2019 19:01

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0211WBSD01

Tot Ion: 63 Resp: 140009
 Ion Ratio Lower Upper
 63 100
 65 32.9 25.0 37.4

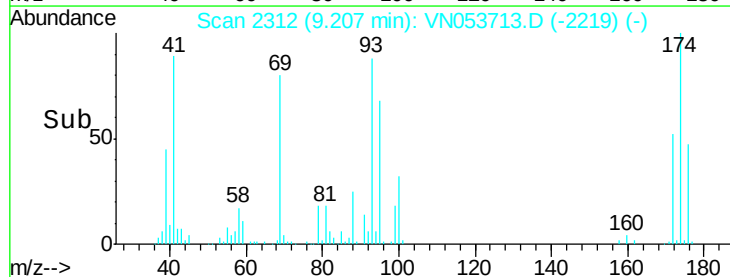
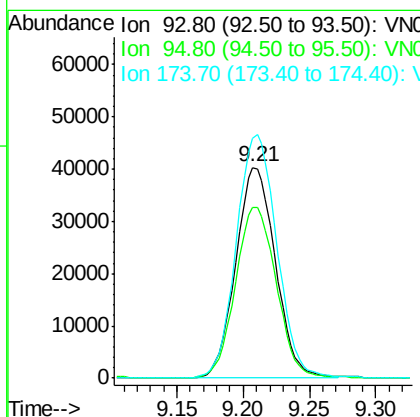
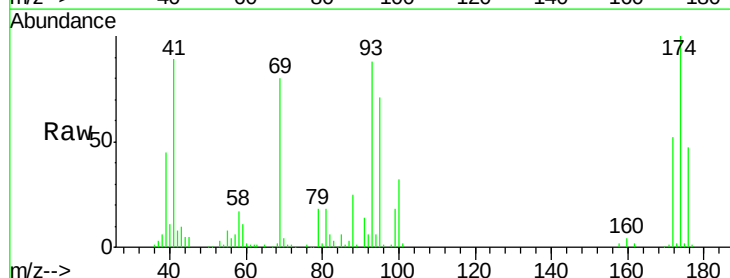
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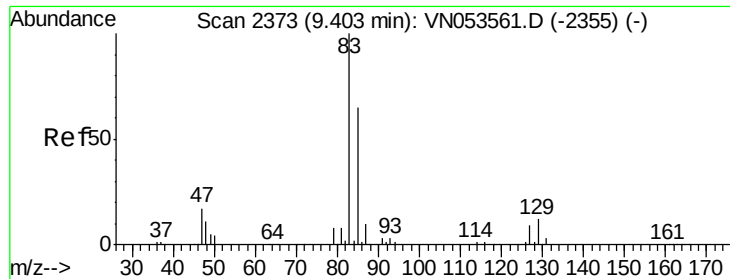
MMDadoda
 2/12/2019 12:49:57 PM



#46
 Dibromomethane
 Concen: 20.118 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. 0.00 min
 Lab File: VN053713.D
 Acq: 11 Feb 2019 19:01

Tgt Ion: 93 Resp: 84022
 Ion Ratio Lower Upper
 93 100
 95 83.5 67.3 100.9
 174 118.2 91.0 136.4





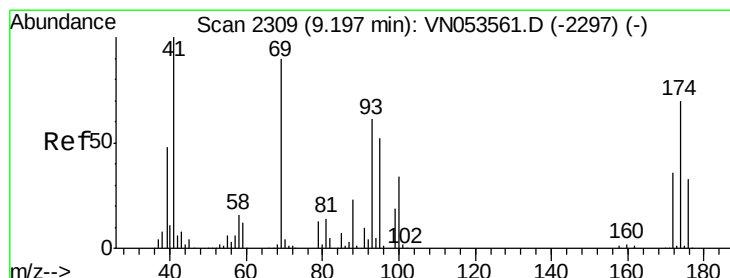
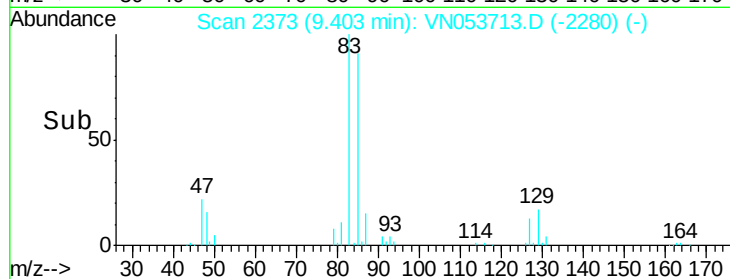
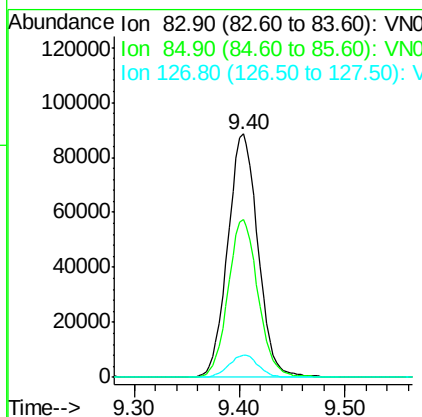
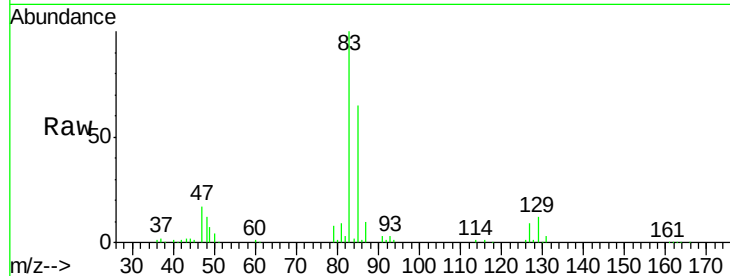
#47
Bromodichloromethane
Concen: 20.236 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. 0.00 min
Lab File: VN053713.D
Acq: 11 Feb 2019 19:01

Instrument :
MSVOA_N
ClientSampleId :
VN0211WBSD01

Tot Ion	83	Resp	175729
Ion Ratio	100	Lower	Upper
83	100		
85	64.6	51.0	76.6
127	9.2	7.0	10.6

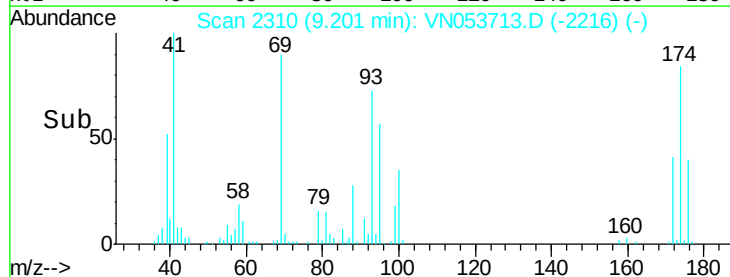
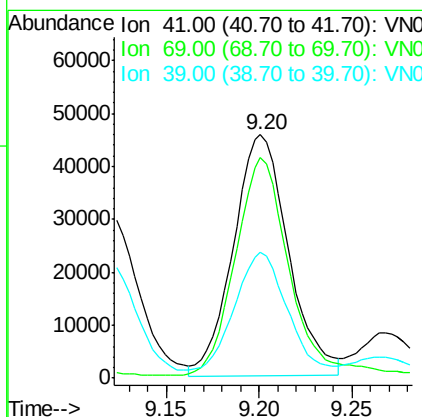
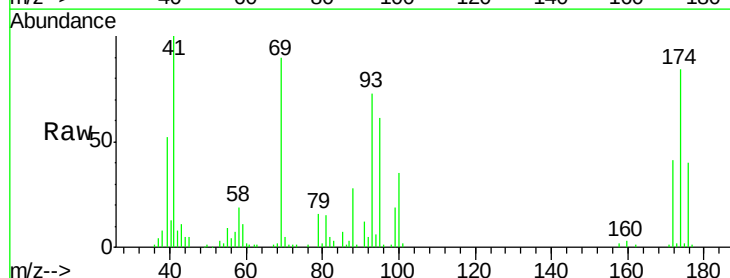
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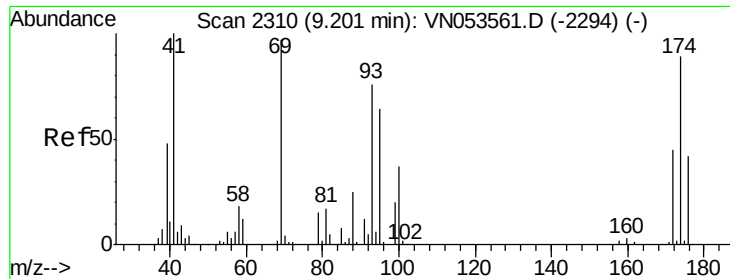
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#48
Methyl methacrylate
Concen: 20.842 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN053713.D
Acq: 11 Feb 2019 19:01

Tgt Ion	41	Resp	94258
Ion Ratio	100	Lower	Upper
41	100		
69	92.8	73.8	110.6
39	50.9	40.0	60.0





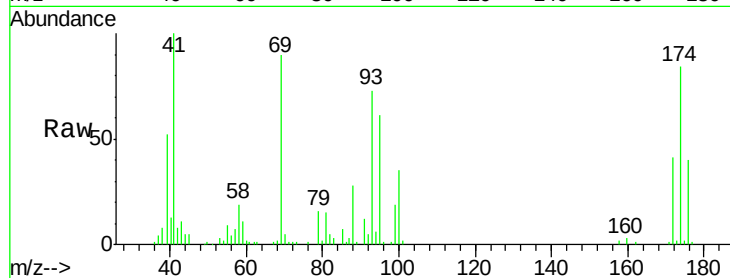
#49
1,4-Dioxane
Concen: 453.113 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN053713.D
Acq: 11 Feb 2019 19:01

Instrument :
MSVOA_N
ClientSampleId :
VN0211WBSD01

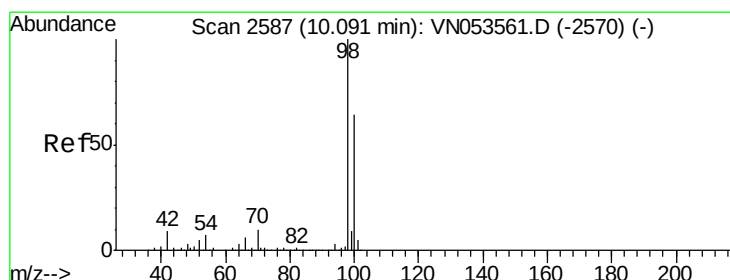
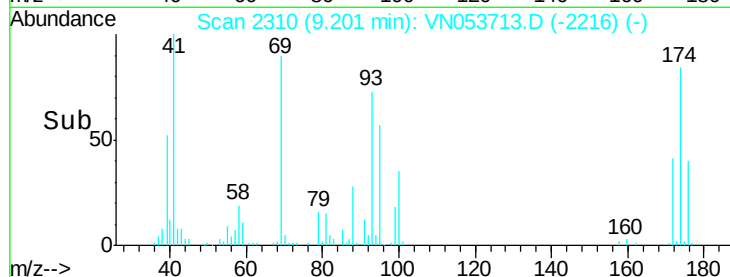
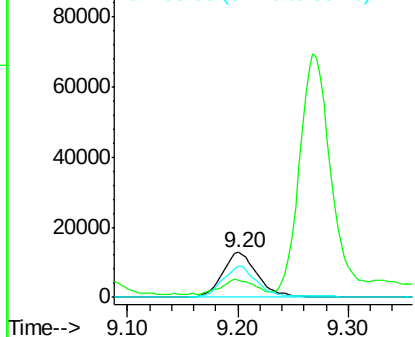
Tot Ion	Ratio	Lower	Upper
88	100		
43	31.5	27.8	41.6
58	66.1	56.5	84.7

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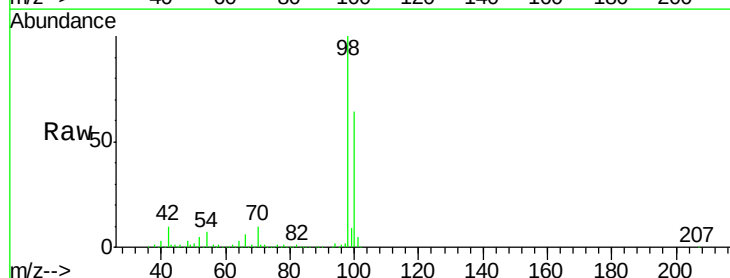


Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0

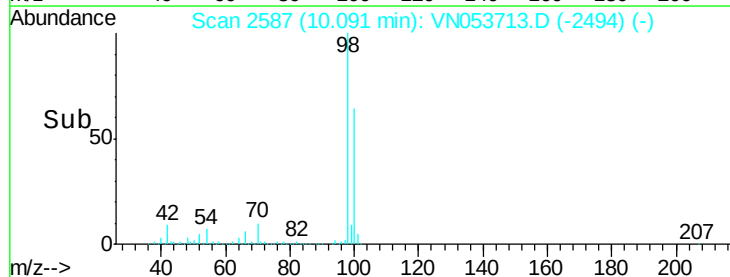
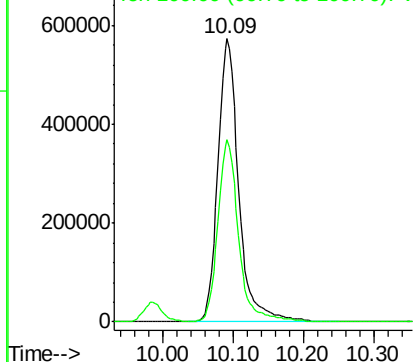


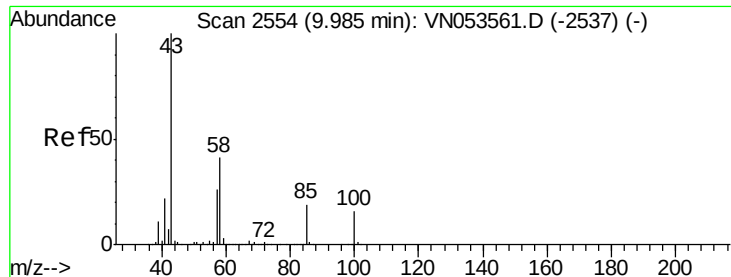
#50
Toluene-d8
Concen: 50.996 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN053713.D
Acq: 11 Feb 2019 19:01

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.2	51.4	77.0



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 106.959 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN053713.D

Acq: 11 Feb 2019 19:01

Instrument :

MSVOA_N

ClientSampleId :

VN0211WBSD01

Tot Ion: 43 Resp: 497973

Ion Ratio Lower Upper

43 100

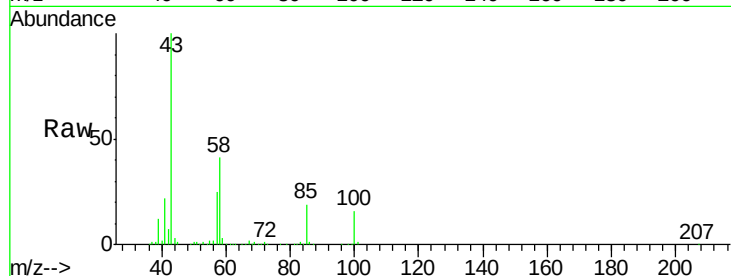
58 40.1 32.8 49.2

Manual Integrations

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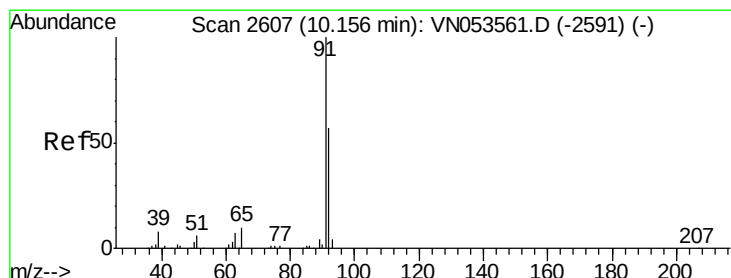
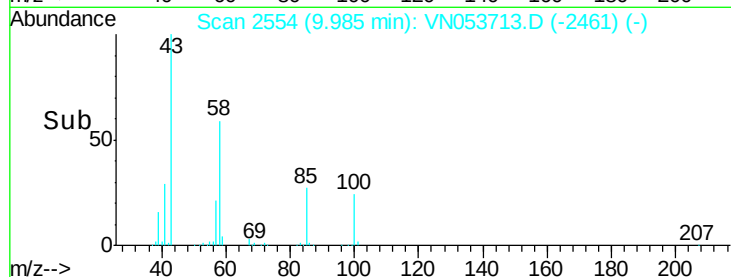
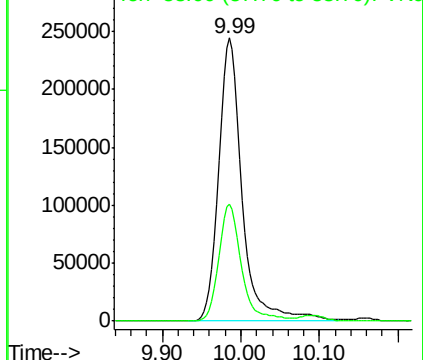
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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 20.020 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN053713.D

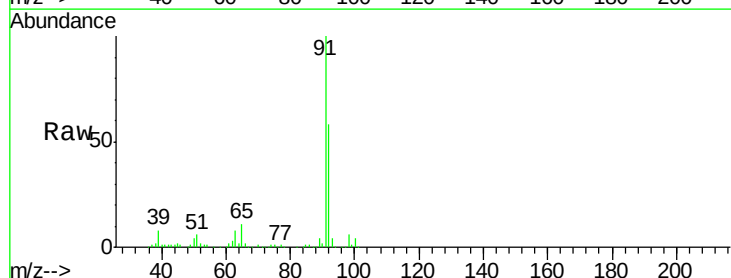
Acq: 11 Feb 2019 19:01

Tgt Ion: 92 Resp: 321848

Ion Ratio Lower Upper

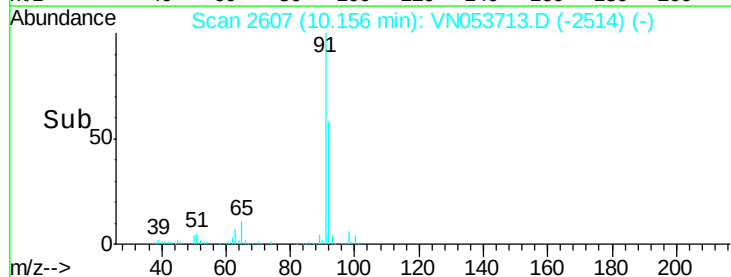
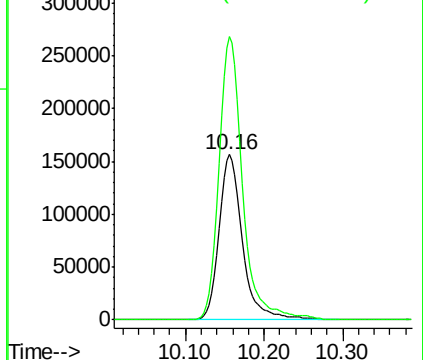
92 100

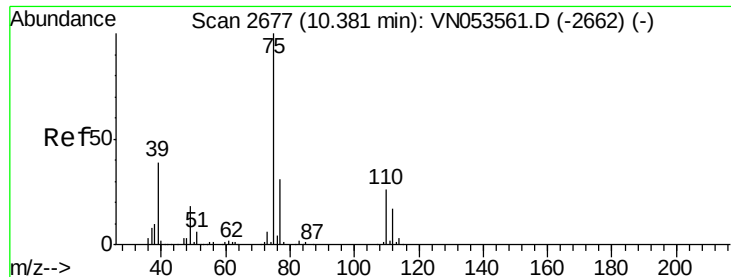
91 172.3 139.9 209.9



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





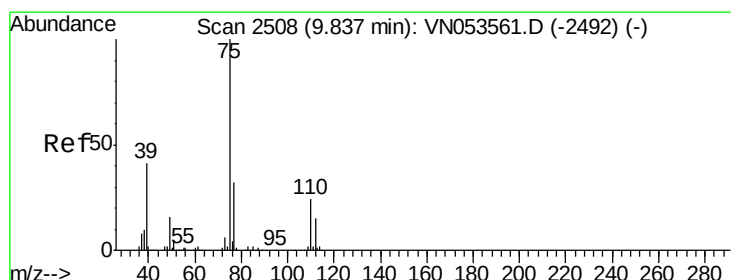
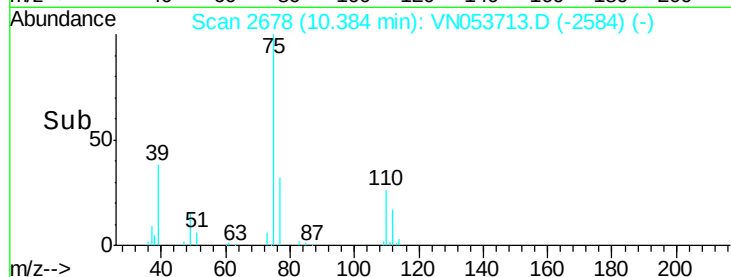
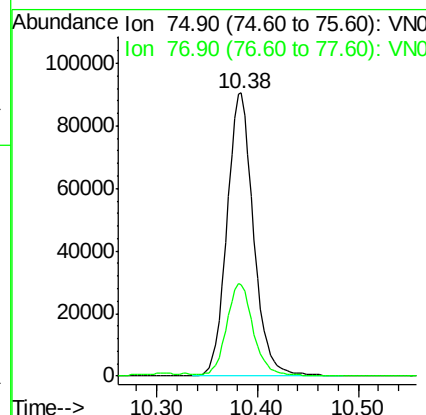
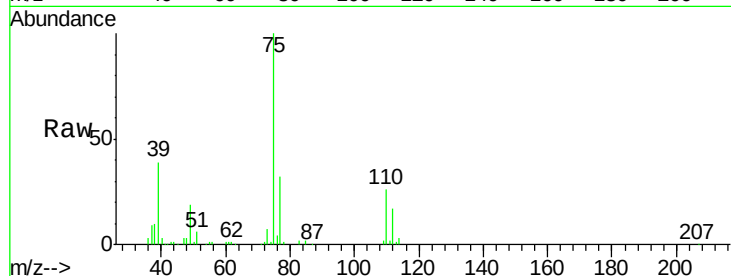
#53
t-1,3-Dichloropropene
Concen: 19.160 ug/l
RT: 10.38 min Scan# 2678
Delta R.T. 0.00 min
Lab File: VN053713.D
Acq: 11 Feb 2019 19:01

Instrument :
MSVOA_N
ClientSampleId :
VN0211WBSD01

Tot Ion	Ratio	Lower	Upper
75	100		
77	32.1	25.5	38.3

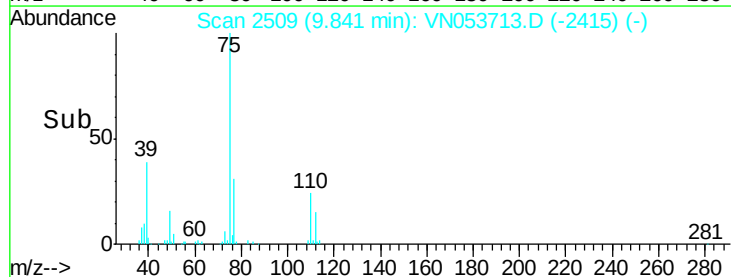
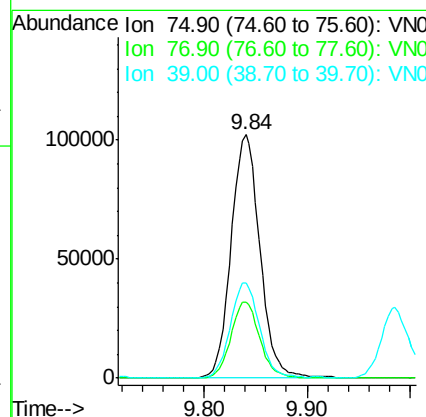
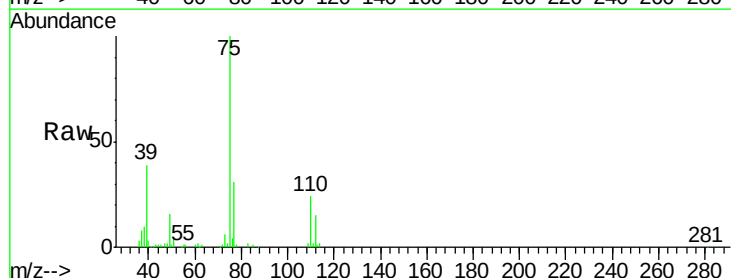
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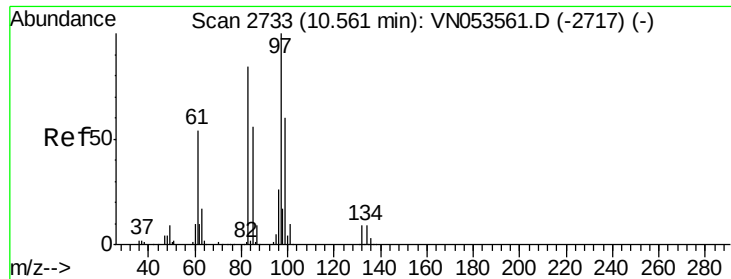
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#54
cis-1,3-Dichloropropene
Concen: 19.373 ug/l
RT: 9.84 min Scan# 2509
Delta R.T. 0.00 min
Lab File: VN053713.D
Acq: 11 Feb 2019 19:01

Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.8	38.6
39	39.0	33.4	50.0





#55

1,1,2-Trichloroethane

Concen: 21.105 ug/l

RT: 10.56 min Scan# 2733

Delta R.T. 0.00 min

Lab File: VN053713.D

Acq: 11 Feb 2019 19:01

Instrument :

MSVOA_N

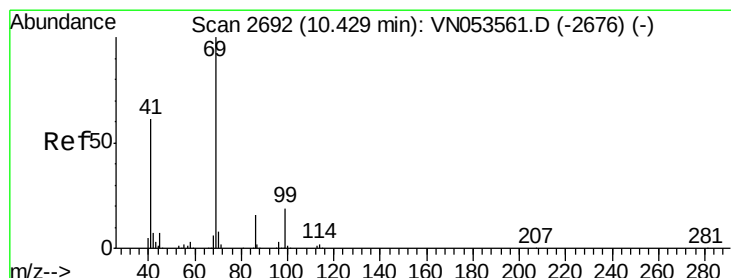
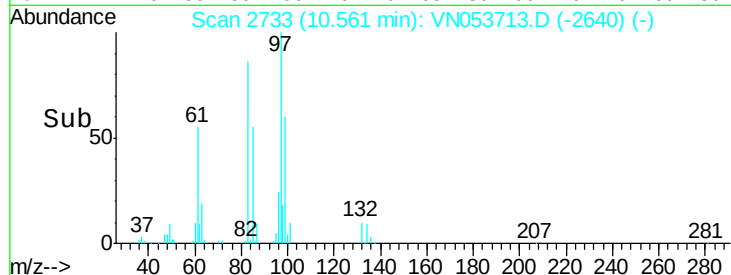
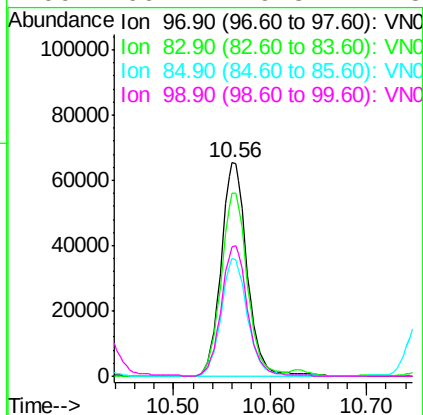
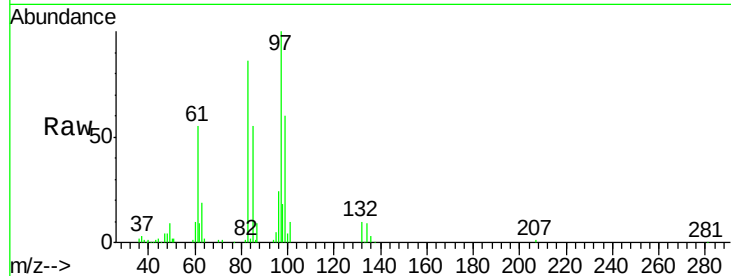
ClientSampleId :

VN0211WBSD01

Tot Ion:	97	Resp:	122262
Ion	Ratio	Lower	Upper
97	100		
83	85.6	70.1	105.1
85	55.1	45.4	68.0
99	60.2	49.8	74.8

Manual Integrations
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#56

Ethyl methacrylate

Concen: 20.788 ug/l

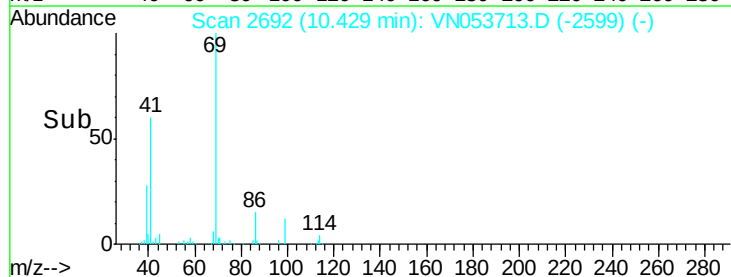
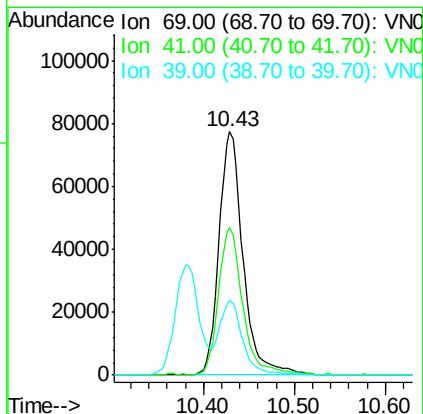
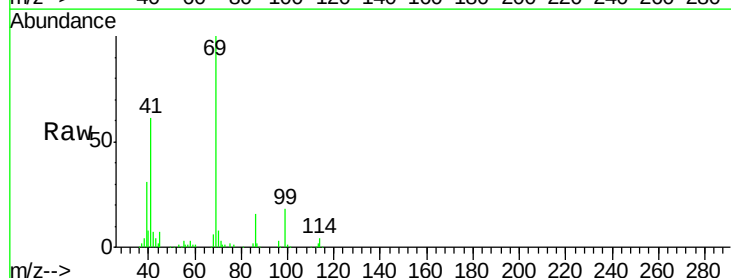
RT: 10.43 min Scan# 2692

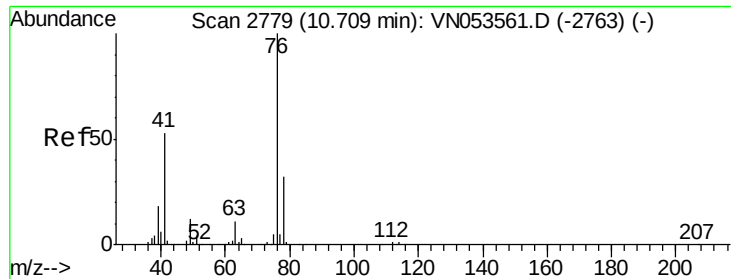
Delta R.T. 0.00 min

Lab File: VN053713.D

Acq: 11 Feb 2019 19:01

Tgt Ion:	69	Resp:	142463
Ion	Ratio	Lower	Upper
69	100		
41	60.0	49.4	74.0
39	29.4	23.3	34.9





#57

1,3-Dichloropropane

Concen: 20.346 ug/l

RT: 10.71 min Scan# 2778

Delta R.T. -0.00 min

Lab File: VN053713.D

Acq: 11 Feb 2019 19:01

Instrument :

MSVOA_N

ClientSampleId :

VN0211WBSD01

Tot Ion: 76 Resp: 201435

Ion Ratio Lower Upper

76 100

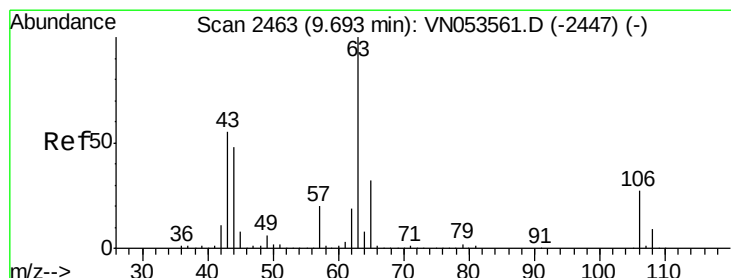
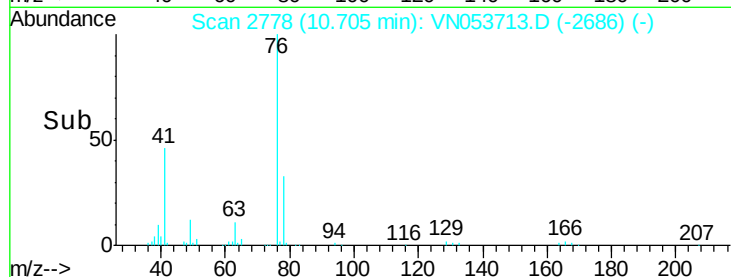
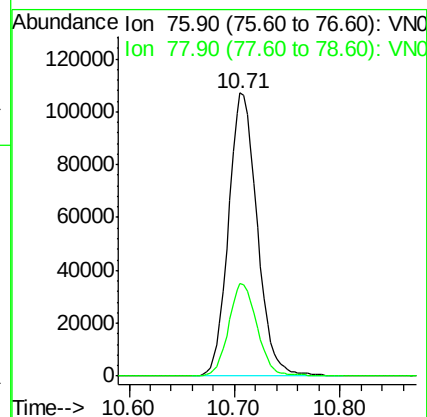
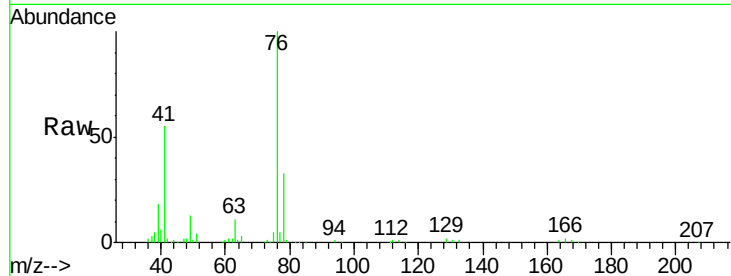
78 32.4 25.6 38.4

Manual Integrations

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#58

2-Chloroethyl Vinyl ether

Concen: 81.964 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN053713.D

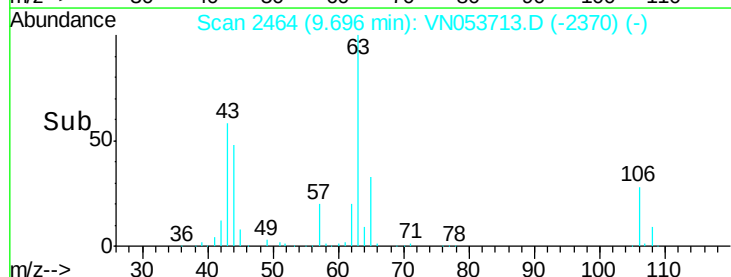
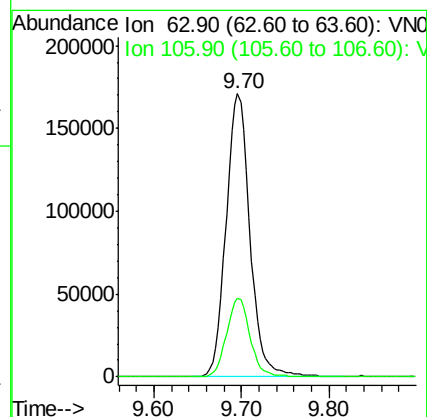
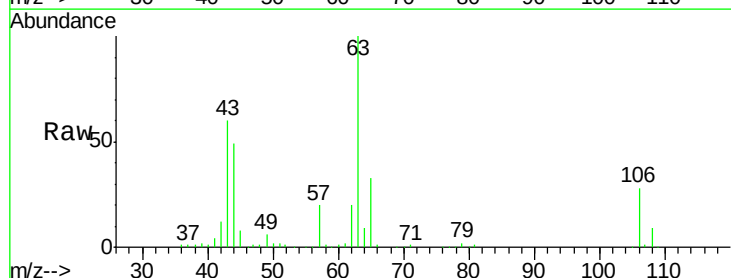
Acq: 11 Feb 2019 19:01

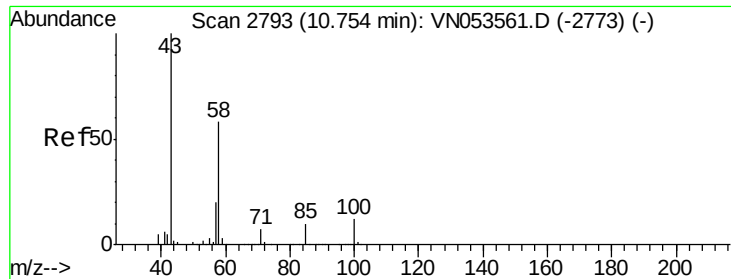
Tgt Ion: 63 Resp: 324721

Ion Ratio Lower Upper

63 100

106 27.4 21.5 32.3





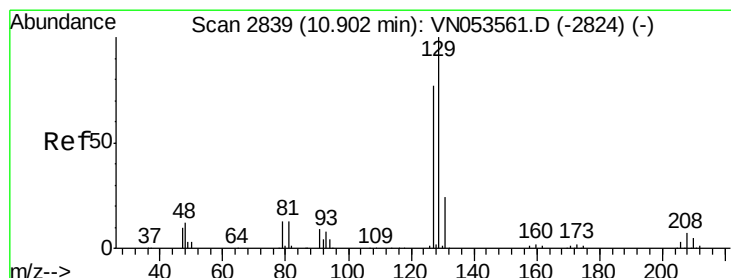
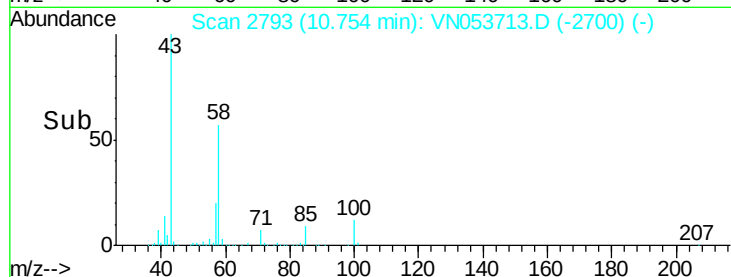
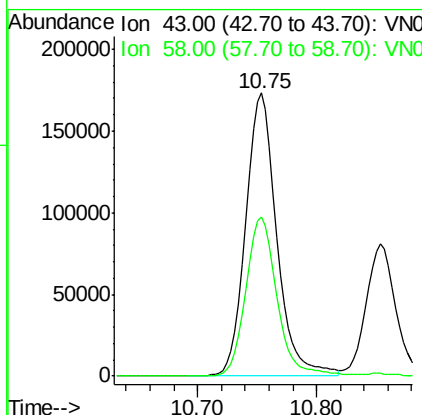
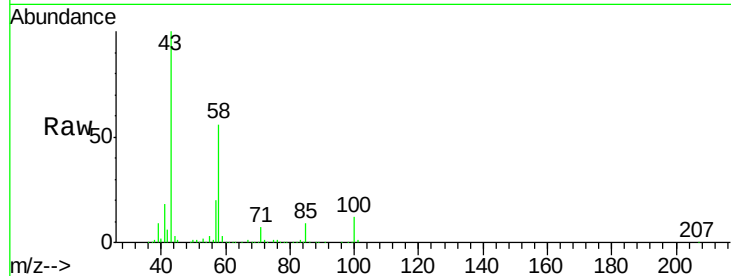
#59
2-Hexanone
Concen: 98.596 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN053713.D
Acq: 11 Feb 2019 19:01

Instrument :
MSVOA_N
ClientSampleId :
VN0211WBSD01

Tot Ion	43	Resp	311627
Ion Ratio	Lower	Upper	
43	100		
58	56.8	28.6	85.8

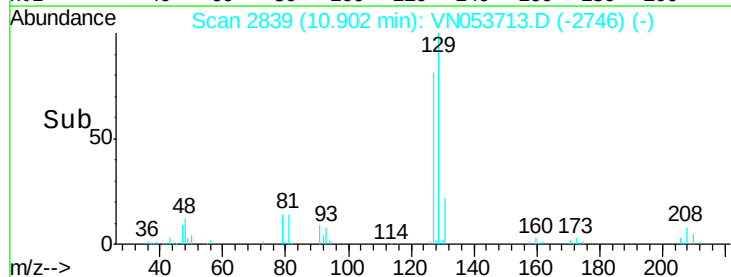
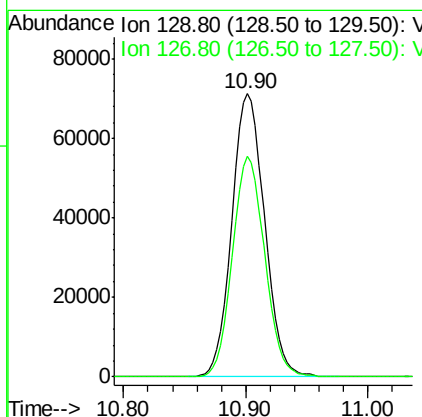
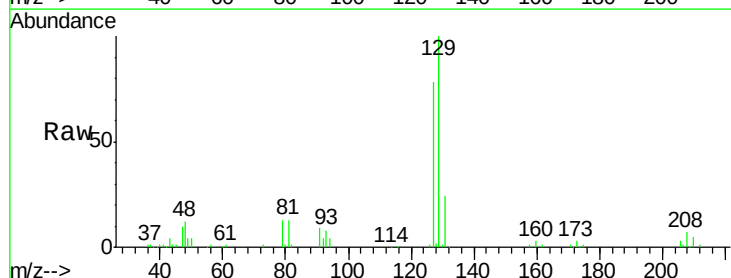
Manual Integrations
APPROVED

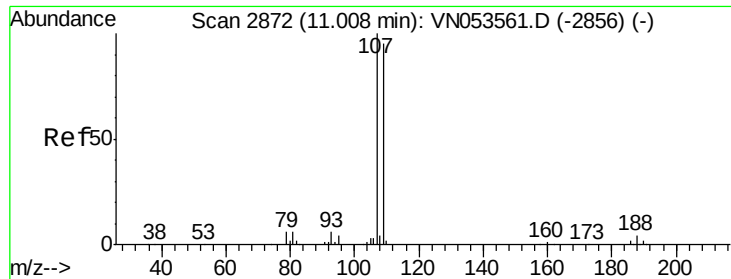
MMDadoda
2/12/2019 12:49:57 PM



#60
Dibromochloromethane
Concen: 20.343 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN053713.D
Acq: 11 Feb 2019 19:01

Tgt Ion	129	Resp	132893
Ion Ratio	Lower	Upper	
129	100		
127	76.8	38.6	115.8





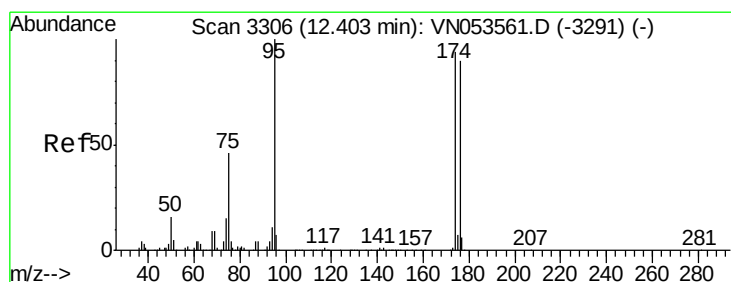
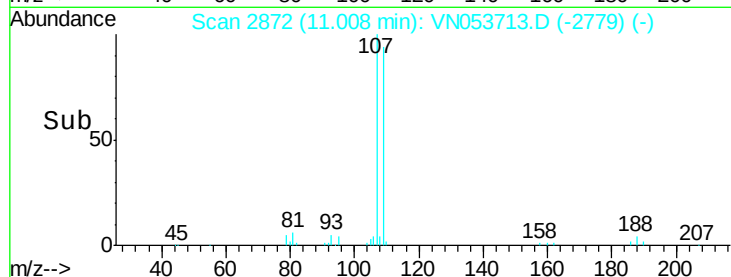
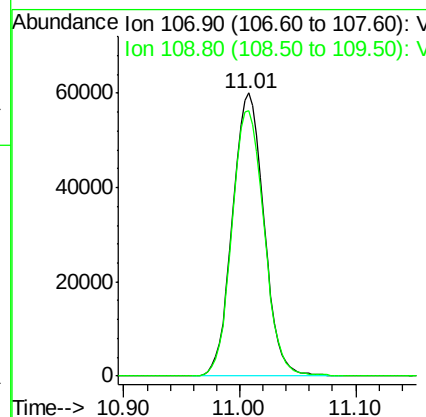
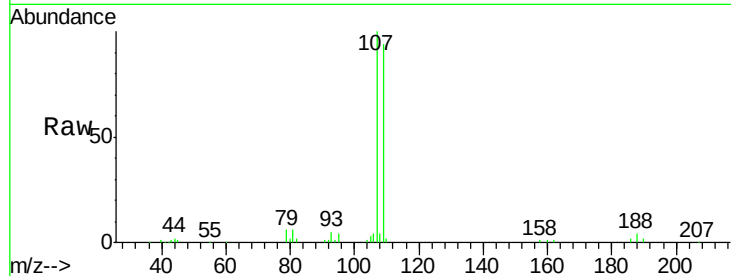
#61
 1,2-Dibromoethane
 Concen: 19.673 ug/l
 RT: 11.01 min Scan# 2872
 Delta R.T. 0.00 min
 Lab File: VN053713.D
 Acq: 11 Feb 2019 19:01

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0211WBSD01

Tot Ion: 107 Resp: 112798
 Ion Ratio Lower Upper
 107 100
 109 95.5 75.7 113.5

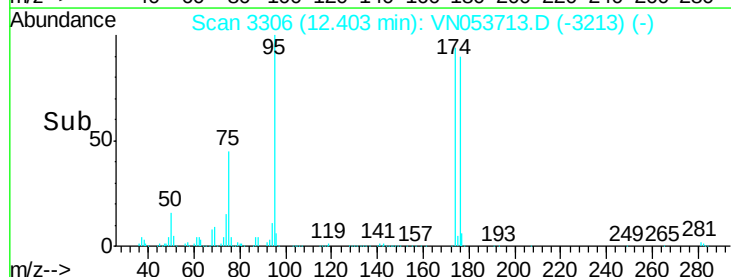
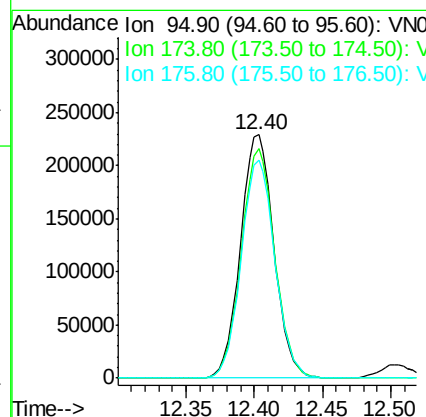
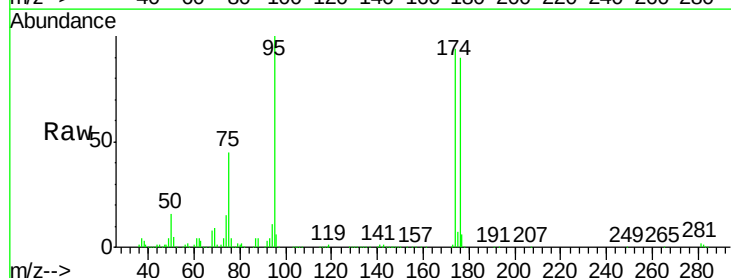
Manual Integrations
 APPROVED

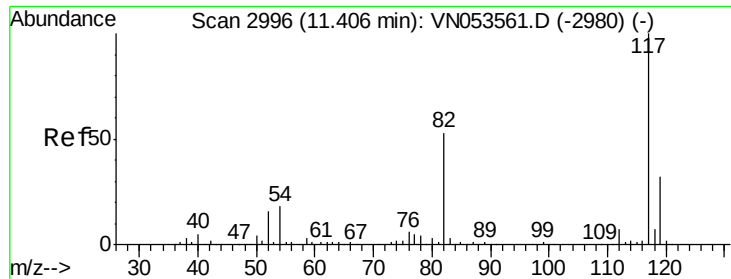
MMDadoda
 2/12/2019 12:49:57 PM



#62
 4-Bromofluorobenzene
 Concen: 50.516 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.00 min
 Lab File: VN053713.D
 Acq: 11 Feb 2019 19:01

Tgt Ion: 95 Resp: 389512
 Ion Ratio Lower Upper
 95 100
 174 94.2 0.0 183.2
 176 90.4 0.0 177.4





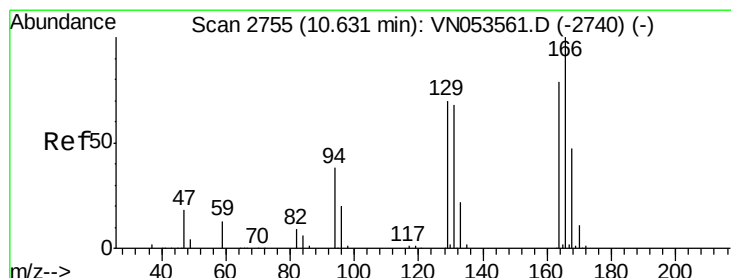
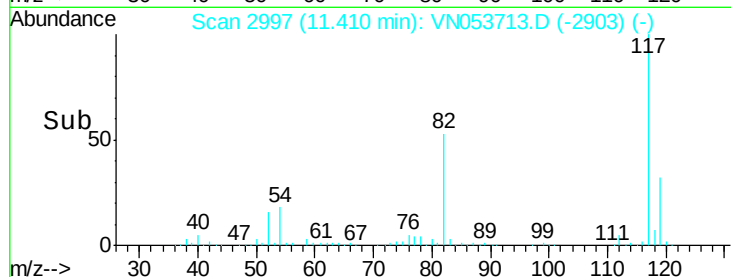
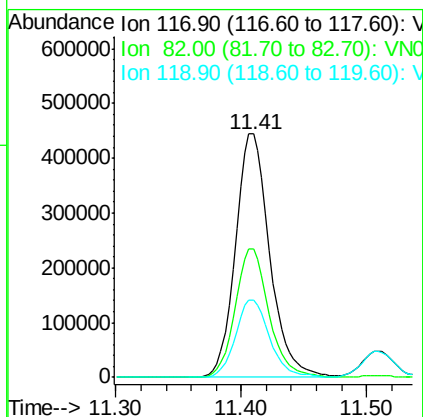
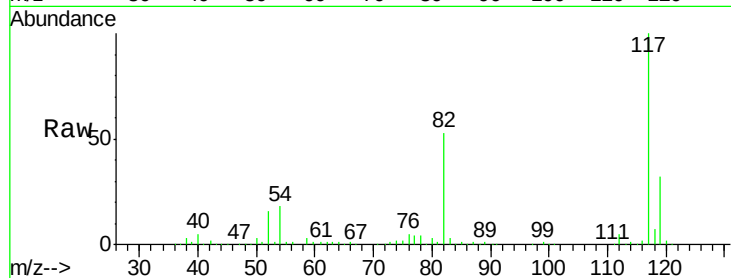
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN053713.D
Acq: 11 Feb 2019 19:01

Instrument :
MSVOA_N
ClientSampleId :
VN0211WBSD01

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.6	42.9	64.3
119	31.9	26.0	39.0

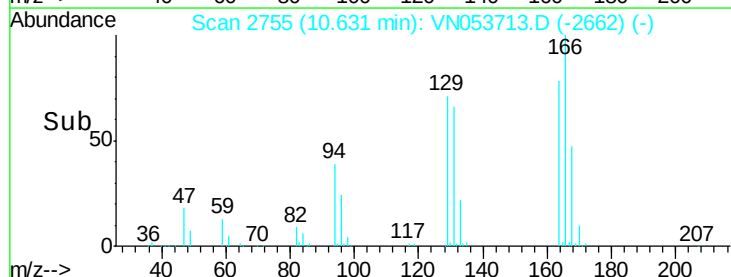
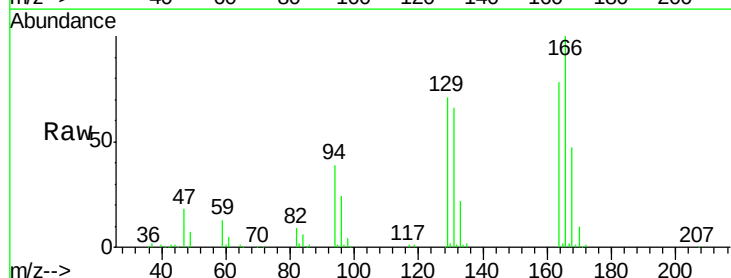
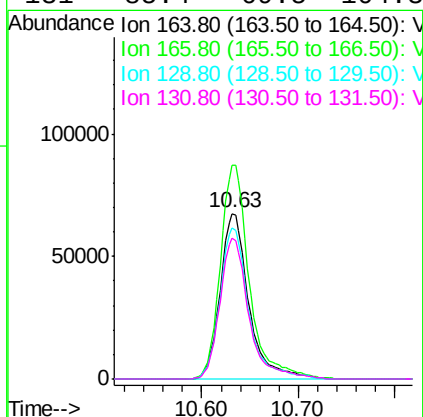
Manual Integrations
APPROVED

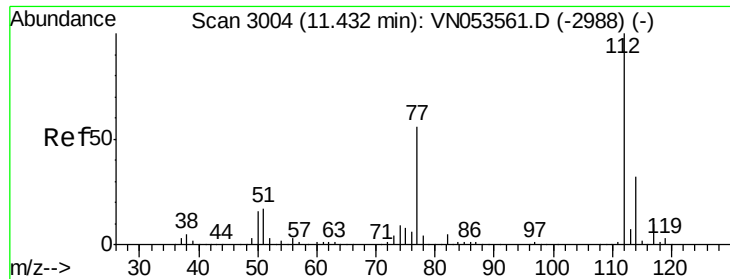
MMDadoda
2/12/2019 12:49:57 PM



#64
Tetrachloroethene
Concen: 19.271 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN053713.D
Acq: 11 Feb 2019 19:01

Tgt Ion	Ratio	Lower	Upper
164	100		
166	129.0	102.2	153.4
129	91.4	72.6	109.0
131	85.4	69.5	104.3





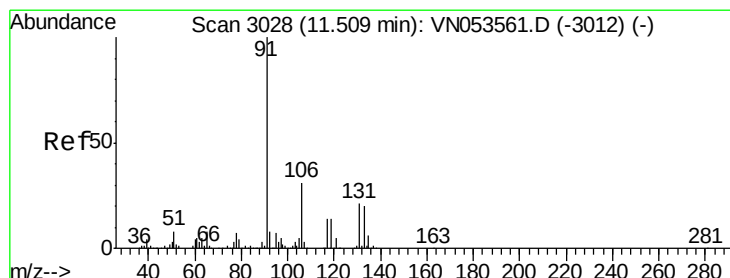
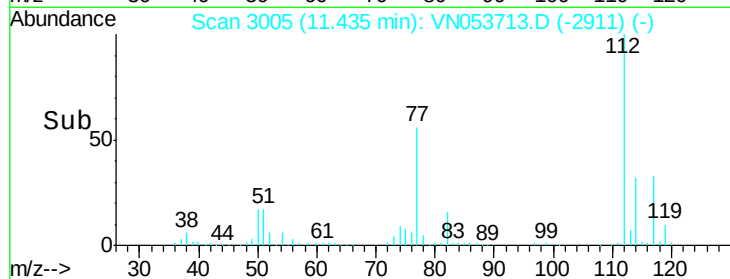
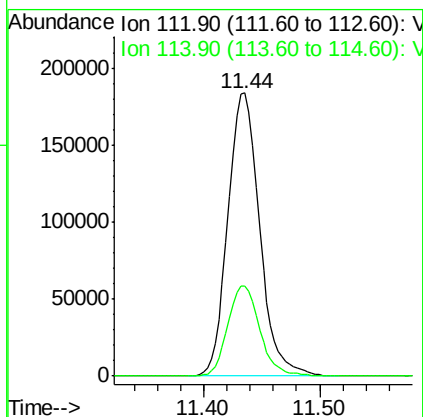
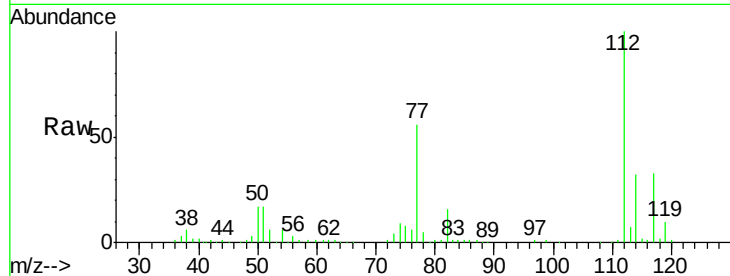
#65
Chlorobenzene
Concen: 19.514 ug/l
RT: 11.44 min Scan# 3005
Delta R.T. 0.00 min
Lab File: VN053713.D
Acq: 11 Feb 2019 19:01

Instrument :
MSVOA_N
ClientSampleId :
VN0211WBSD01

Tot Ion:112 Resp: 348635
Ion Ratio Lower Upper
112 100
114 32.0 25.3 37.9

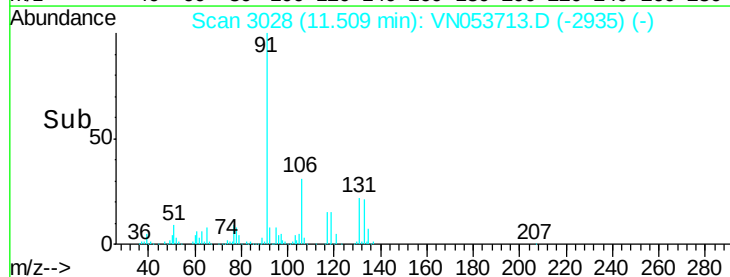
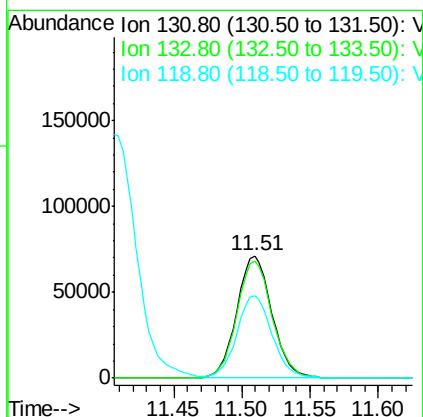
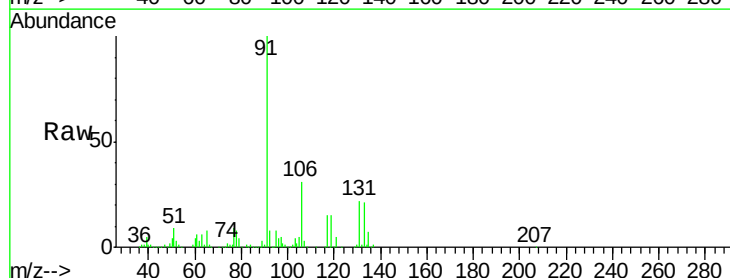
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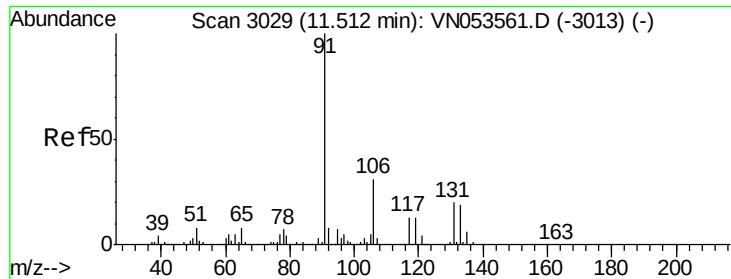
MMDadoda
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#66
1,1,1,2-Tetrachloroethane
Concen: 20.500 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN053713.D
Acq: 11 Feb 2019 19:01

Tgt Ion:131 Resp: 127913
Ion Ratio Lower Upper
131 100
133 96.2 48.0 144.0
119 67.4 33.5 100.5





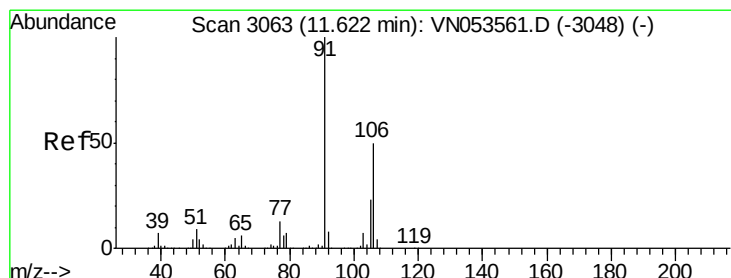
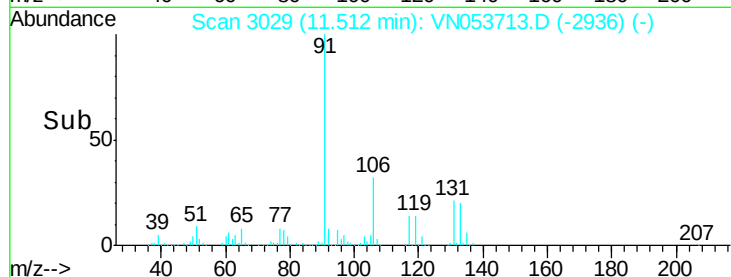
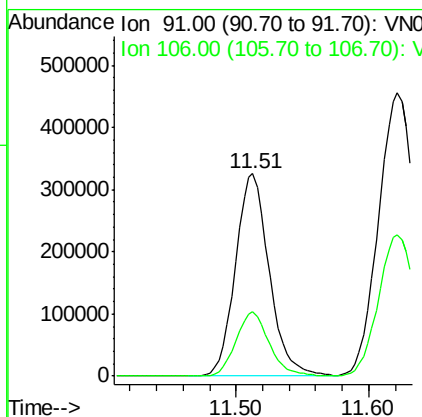
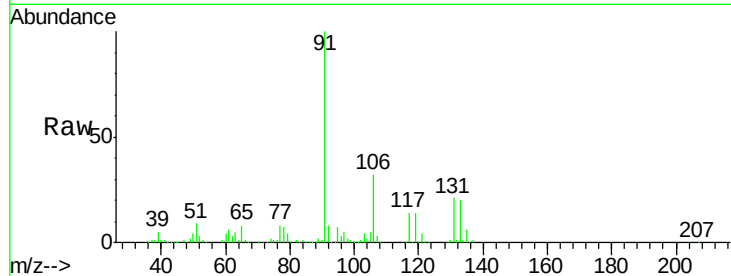
#67
Ethyl Benzene
Concen: 19.647 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. 0.00 min
Lab File: VN053713.D
Acq: 11 Feb 2019 19:01

Instrument :
MSVOA_N
ClientSampleId :
VN0211WBSD01

Tot Ion: 91 Resp: 576624
Ion Ratio Lower Upper
91 100
106 31.6 25.0 37.6

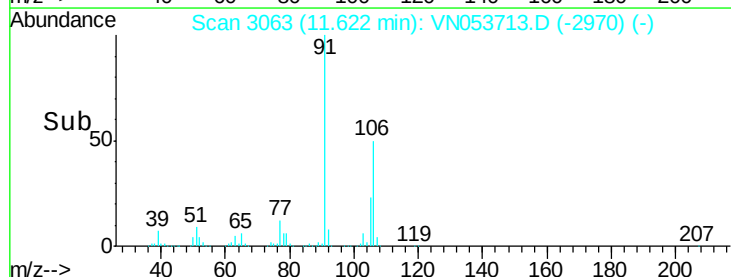
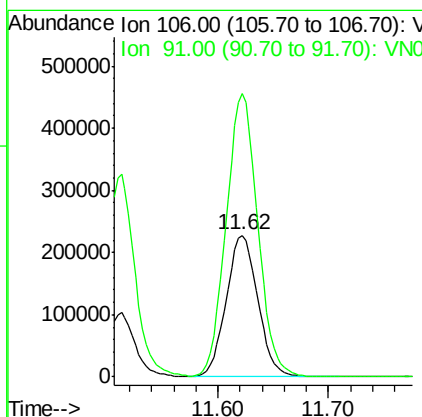
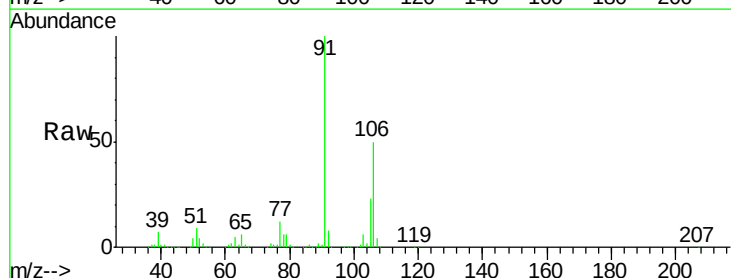
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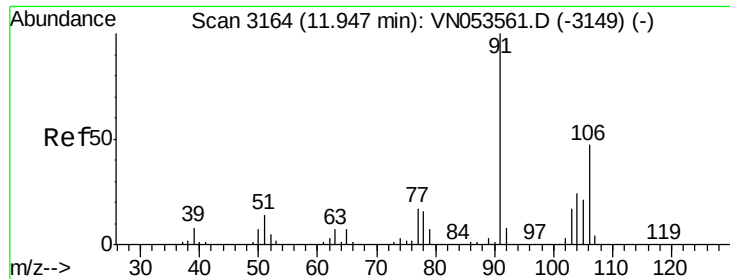
MMDadoda
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#68
m/p-Xylenes
Concen: 40.522 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN053713.D
Acq: 11 Feb 2019 19:01

Tgt Ion: 106 Resp: 453899
Ion Ratio Lower Upper
106 100
91 199.2 161.4 242.2





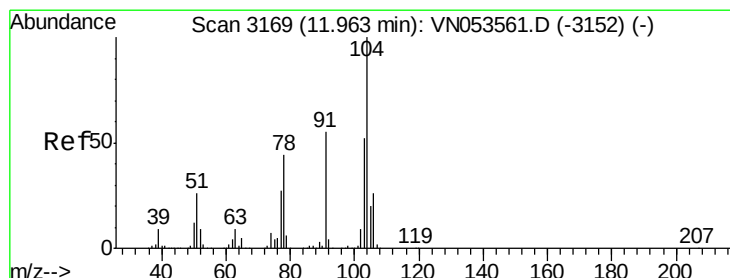
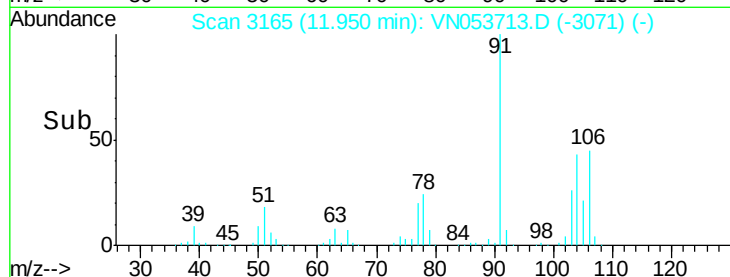
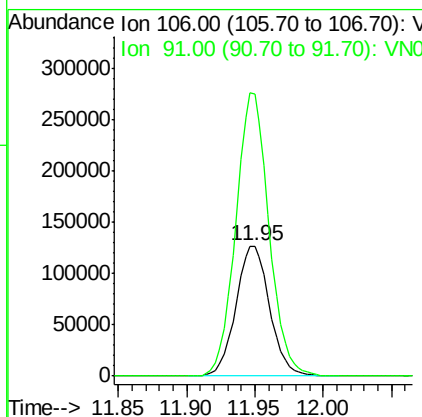
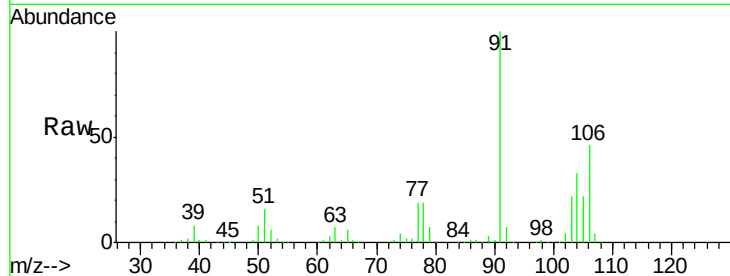
#69
o-Xylene
Concen: 20.092 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. 0.00 min
Lab File: VN053713.D
Acq: 11 Feb 2019 19:01

Instrument :
MSVOA_N
ClientSampleId :
VN0211WBSD01

Tot Ion:106 Resp: 217422
Ion Ratio Lower Upper
106 100
91 213.9 106.9 320.8

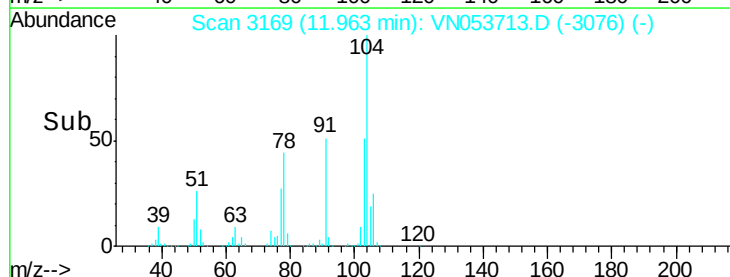
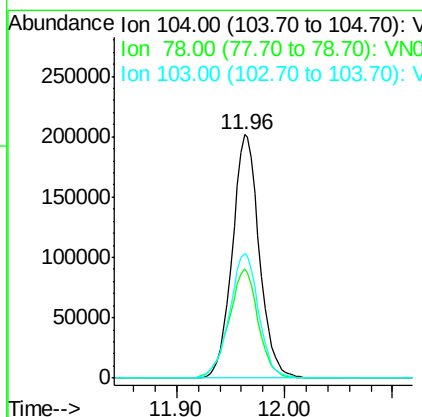
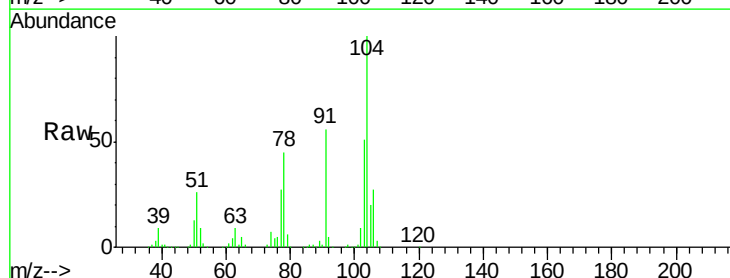
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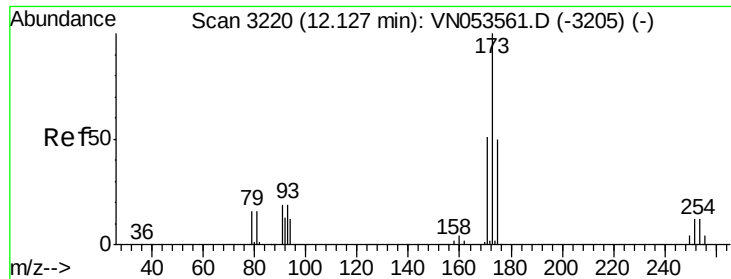
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#70
Styrene
Concen: 20.097 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN053713.D
Acq: 11 Feb 2019 19:01

Tgt Ion:104 Resp: 352489
Ion Ratio Lower Upper
104 100
78 48.4 38.2 57.2
103 55.2 44.4 66.6





#71

Bromoform

Concen: 21.136 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN053713.D

Acq: 11 Feb 2019 19:01

Instrument :

MSVOA_N

ClientSampleId :

VN0211WBSD01

Tot Ion:173 Resp: 90414

Ion Ratio Lower Upper

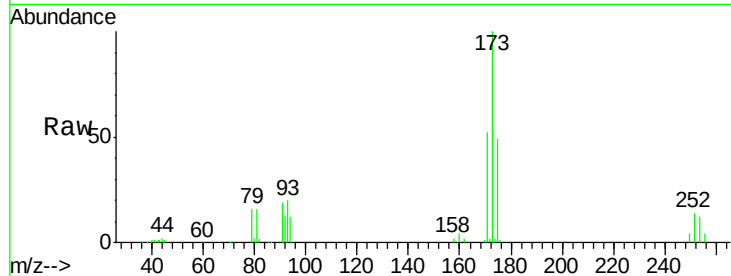
173 100

175 49.5 24.6 74.0

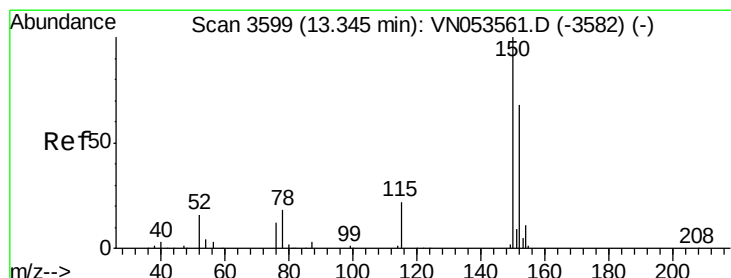
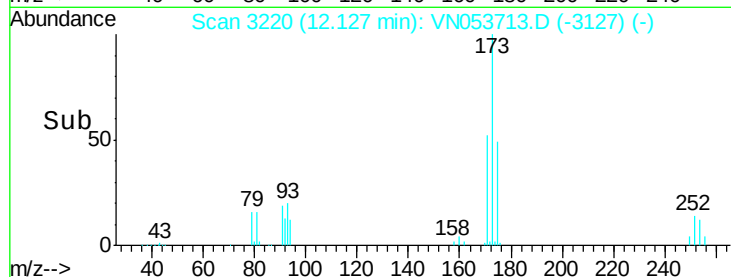
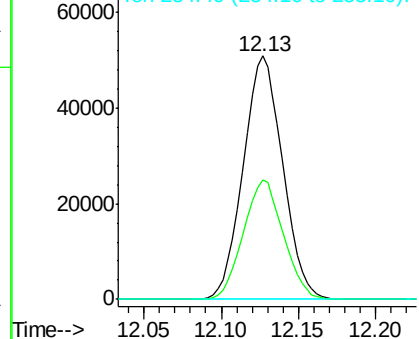
254 0.0 0.2 0.2#

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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN053713.D

Acq: 11 Feb 2019 19:01

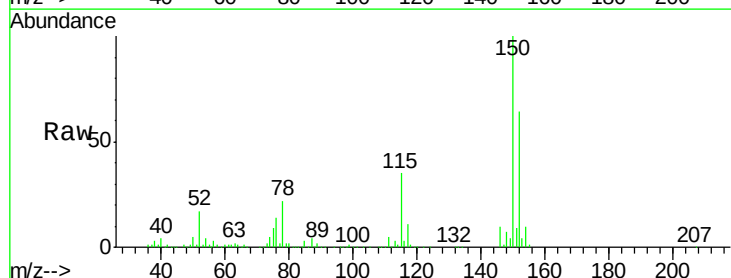
Tgt Ion:152 Resp: 395824

Ion Ratio Lower Upper

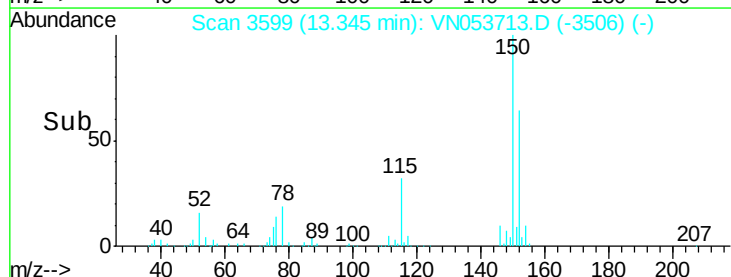
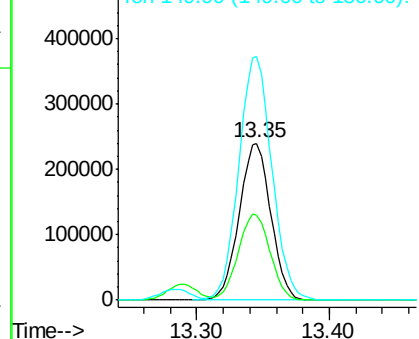
152 100

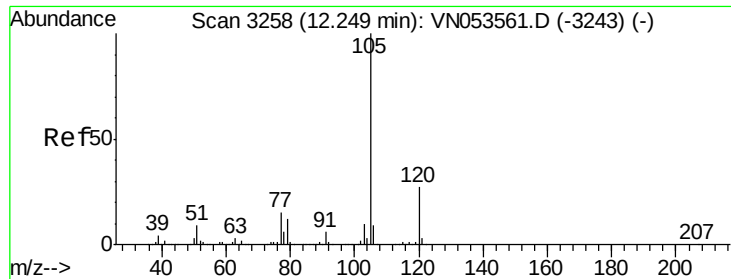
115 55.6 27.8 83.4

150 163.2 0.0 349.0



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





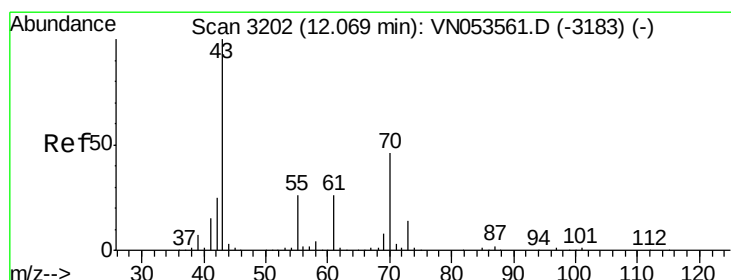
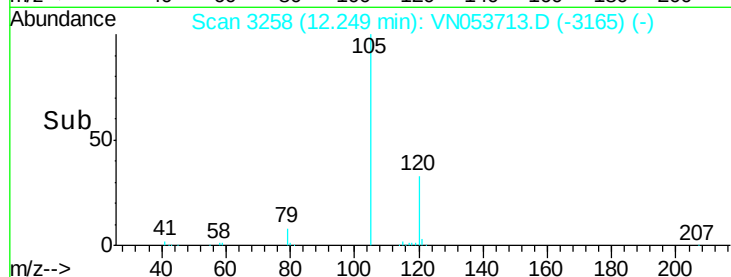
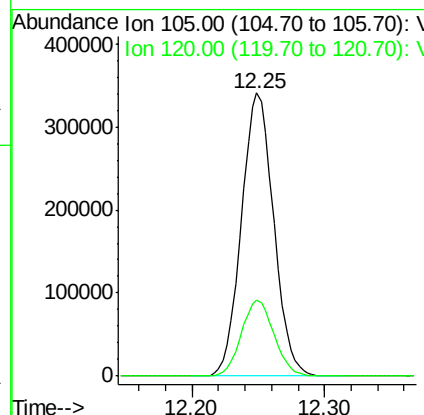
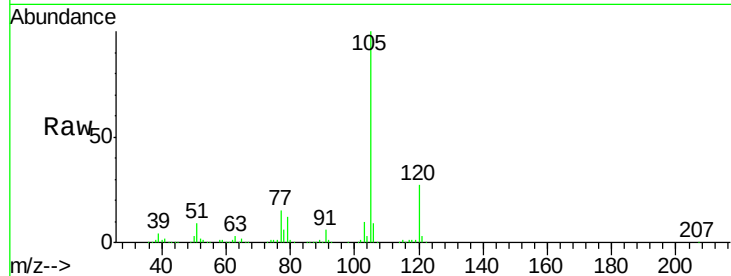
#73
Isopropylbenzene
Concen: 20.649 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. 0.00 min
Lab File: VN053713.D
Acq: 11 Feb 2019 19:01

Instrument :
MSVOA_N
ClientSampleId :
VN0211WBSD01

Tot Ion	Ratio	Lower	Upper
105	100		
120	27.2	13.6	40.7

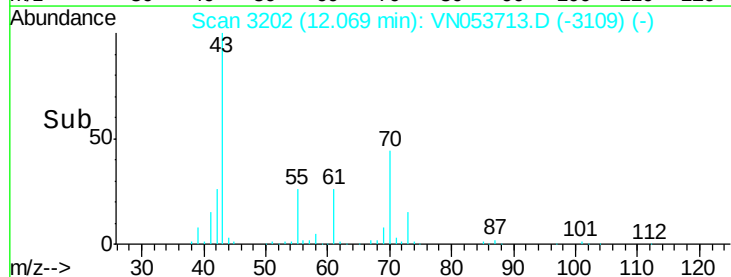
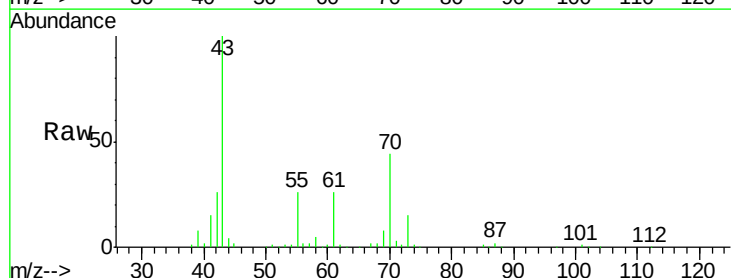
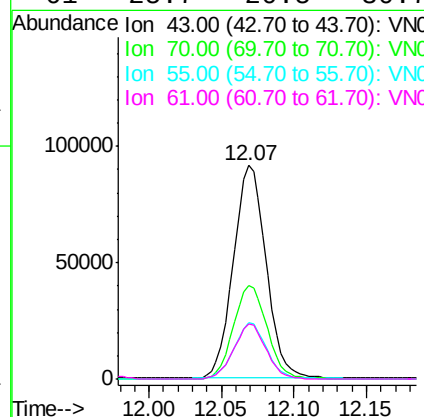
Manual Integrations
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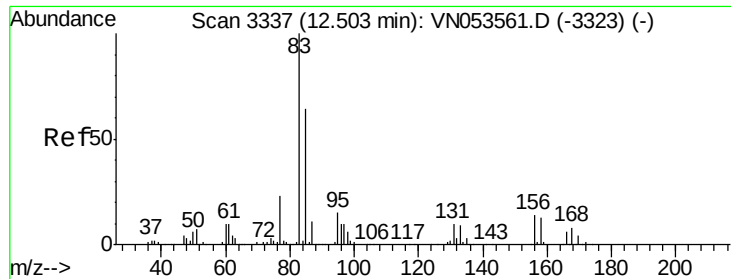
MMDadoda
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#74
N-ethyl acetate
Concen: 21.337 ug/l
RT: 12.07 min Scan# 3202
Delta R.T. 0.00 min
Lab File: VN053713.D
Acq: 11 Feb 2019 19:01

Tgt Ion	Ratio	Lower	Upper
43	100		
70	45.4	35.4	53.2
55	26.4	20.9	31.3
61	25.7	20.5	30.7





#75

1,1,2,2-Tetrachloroethane

Concen: 21.036 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN053713.D

Acq: 11 Feb 2019 19:01

Instrument :

MSVOA_N

ClientSampleId :

VN0211WBSD01

Tot Ion: 83 Resp: 140088

Ion Ratio Lower Upper

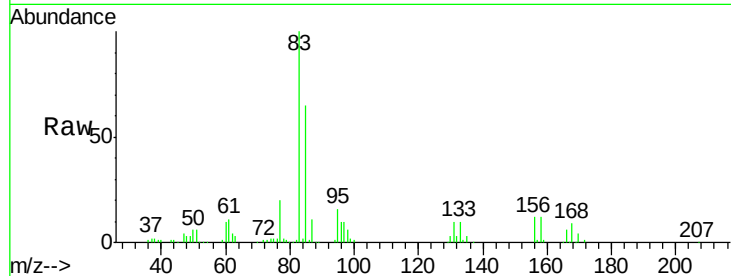
83 100

131 10.4 5.3 15.8

85 64.2 32.1 96.3

Manual Integrations
APPROVED

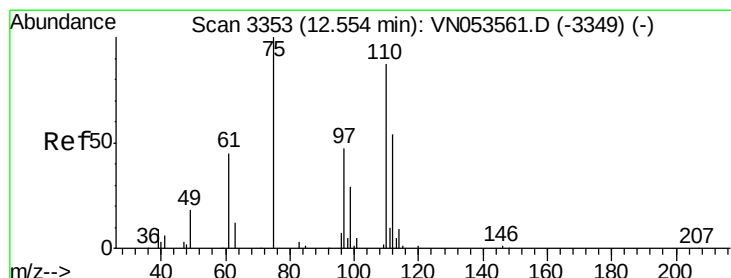
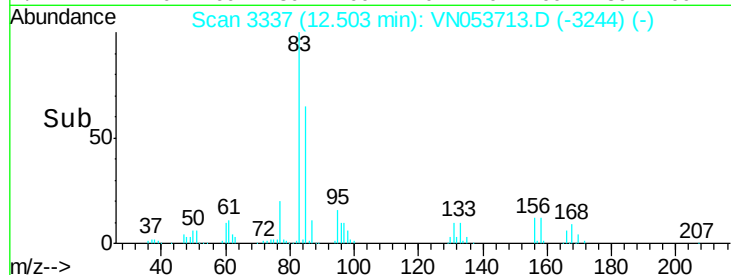
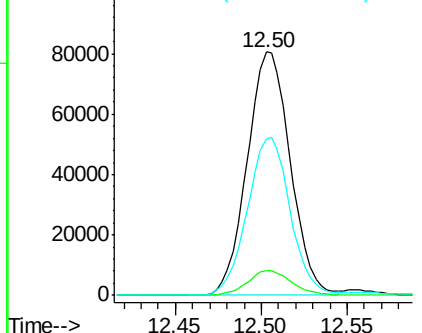
MMDadoda
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Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): VN0

Ion 84.90 (84.60 to 85.60): VN0



#76

1,2,3-Trichloropropane

Concen: 22.569 ug/l m

RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

Lab File: VN053713.D

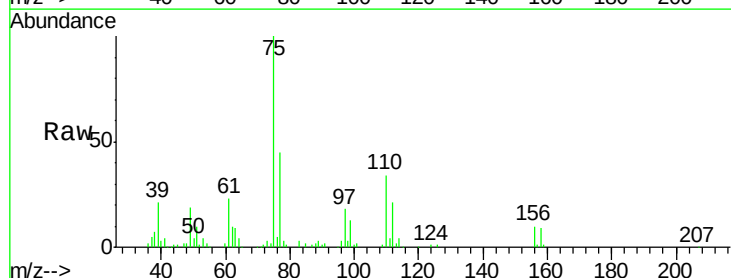
Acq: 11 Feb 2019 19:01

Tgt Ion: 75 Resp: 114741

Ion Ratio Lower Upper

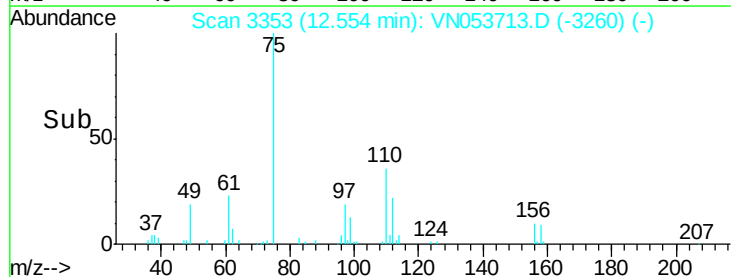
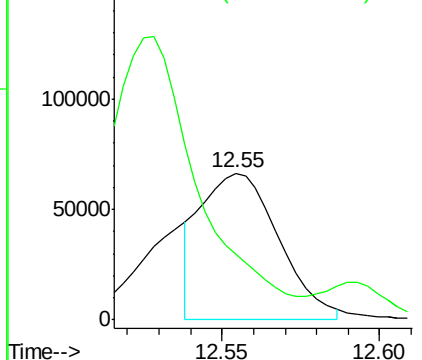
75 100

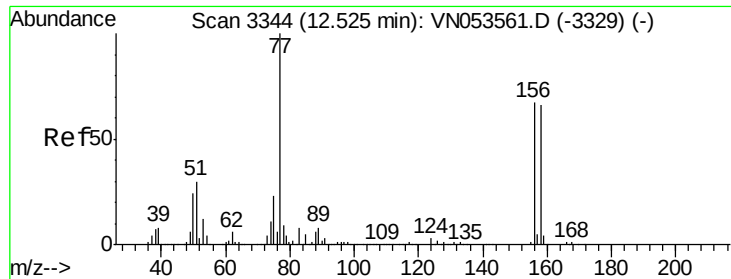
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





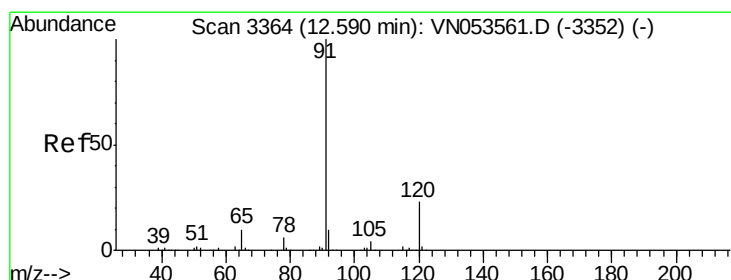
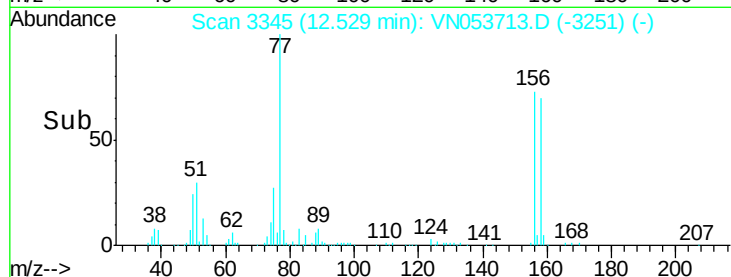
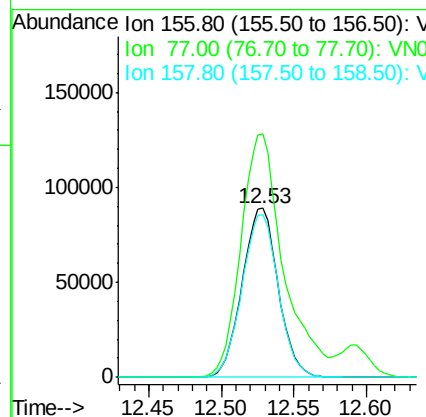
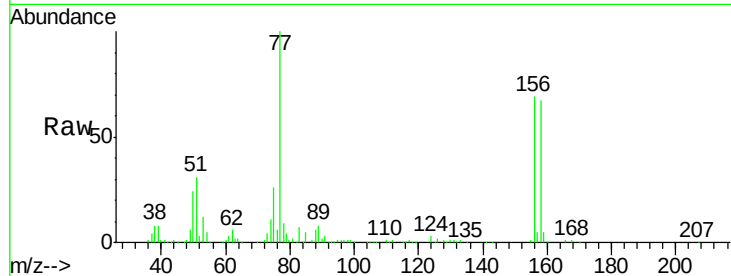
#77
Bromobenzene
Concen: 20.561 ug/l
RT: 12.53 min Scan# 3345
Delta R.T. 0.00 min
Lab File: VN053713.D
Acq: 11 Feb 2019 19:01

Instrument :
MSVOA_N
ClientSampleId :
VN0211WBSD01

Tot Ion	Ratio	Lower	Upper
156	100		
77	169.5	87.9	263.8
158	97.3	48.8	146.4

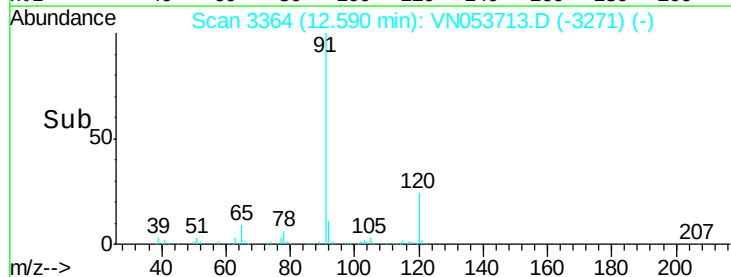
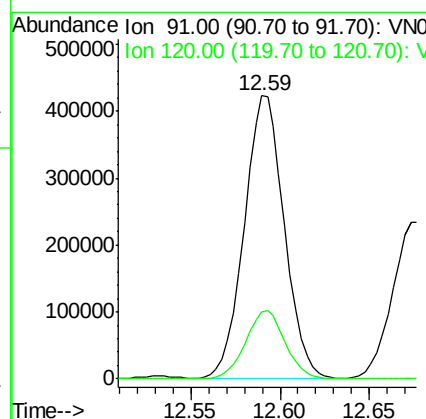
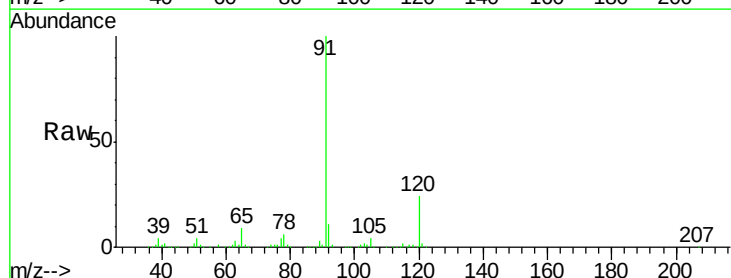
Manual Integrations
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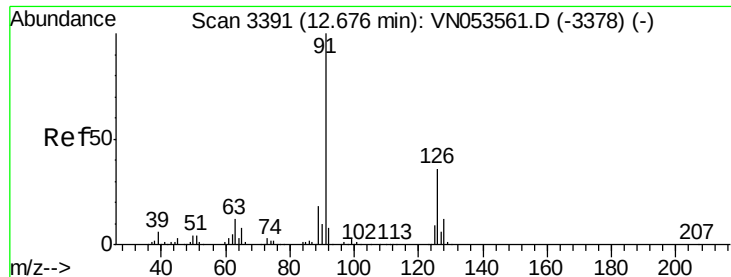
MMDadoda
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#78
n-propylbenzene
Concen: 20.486 ug/l
RT: 12.59 min Scan# 3364
Delta R.T. 0.00 min
Lab File: VN053713.D
Acq: 11 Feb 2019 19:01

Tgt Ion	Ratio	Lower	Upper
91	100		
120	24.0	11.9	35.5





#79

2-Chlorotoluene

Concen: 20.644 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN053713.D

Acq: 11 Feb 2019 19:01

Instrument :

MSVOA_N

ClientSampled :

VN0211WBSD01

Tot Ion: 91 Resp: 393973

Ion Ratio Lower Upper

91 100

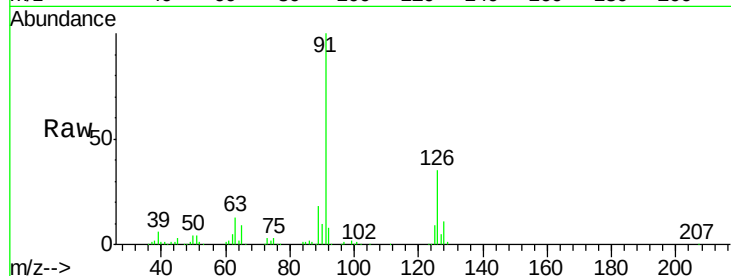
126 35.7 17.9 53.7

Manual Integrations

APPROVED

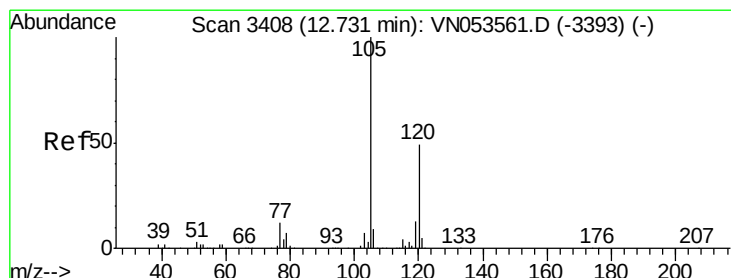
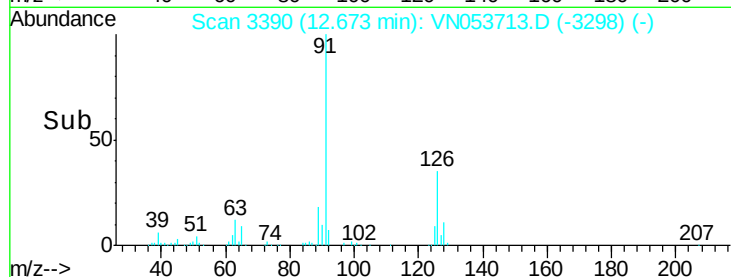
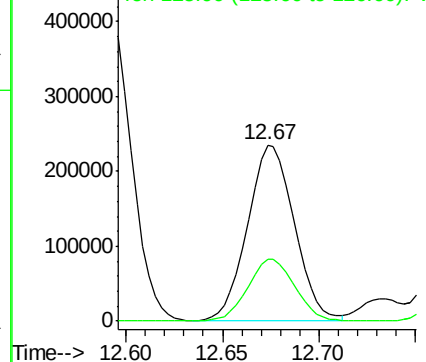
MMDadoda

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Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V



#80

1,3,5-Trimethylbenzene

Concen: 21.311 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN053713.D

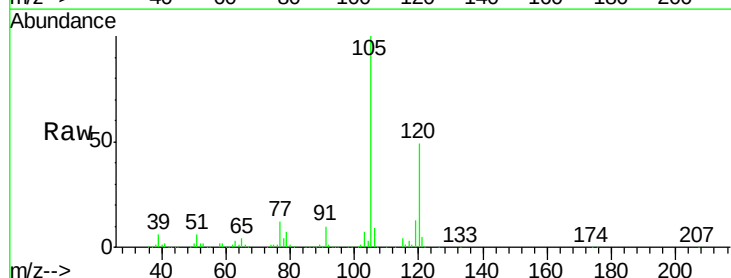
Acq: 11 Feb 2019 19:01

Tgt Ion: 105 Resp: 491734

Ion Ratio Lower Upper

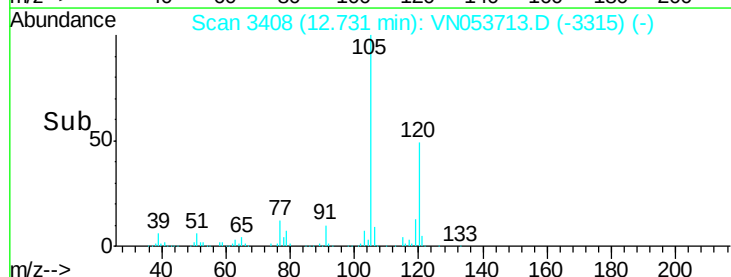
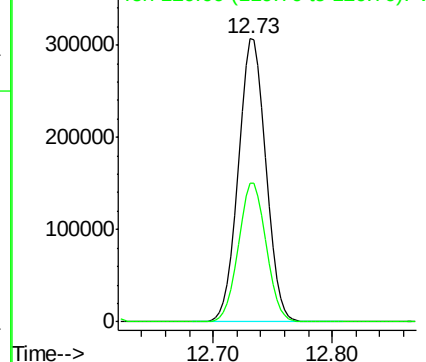
105 100

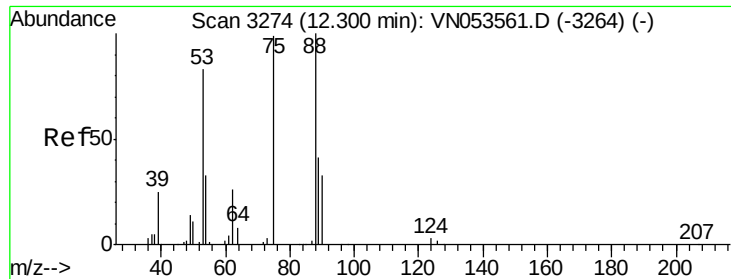
120 49.4 24.9 74.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





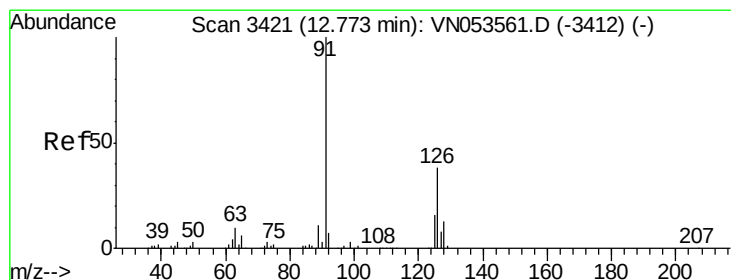
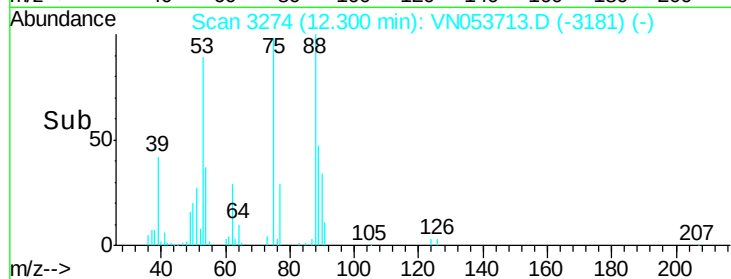
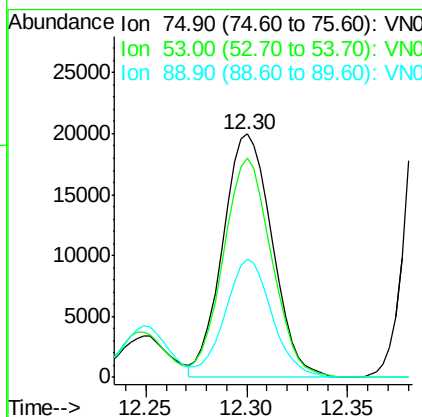
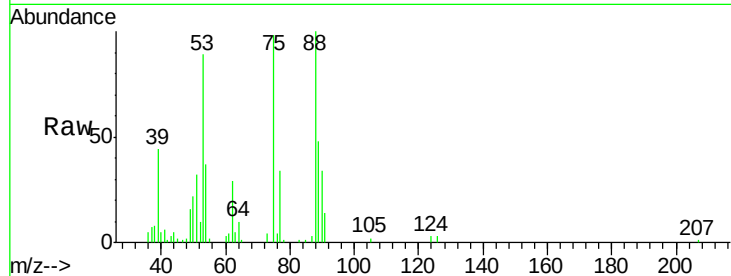
#81
trans-1,4-Dichloro-2-butene
Concen: 18.944 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. 0.00 min
Lab File: VN053713.D
Acq: 11 Feb 2019 19:01

Instrument :
MSVOA_N
ClientSampleId :
VN0211WBSD01

Tot Ion	Ratio	Lower	Upper
75	100		
53	88.2	69.8	104.6
89	45.8	35.6	53.4

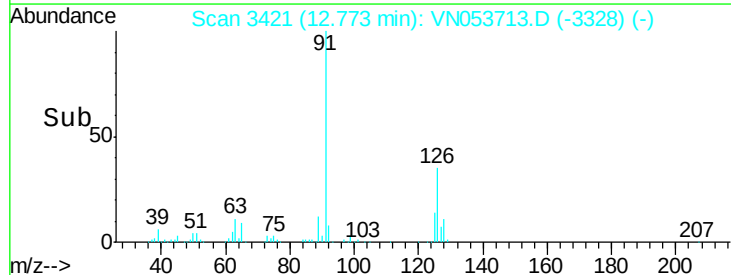
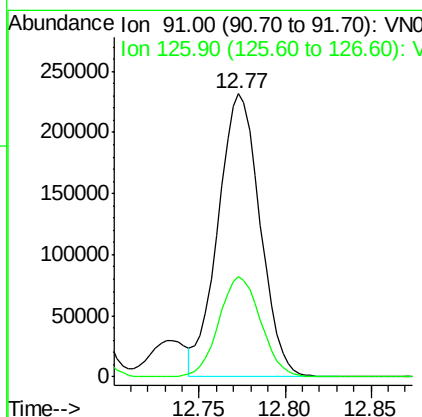
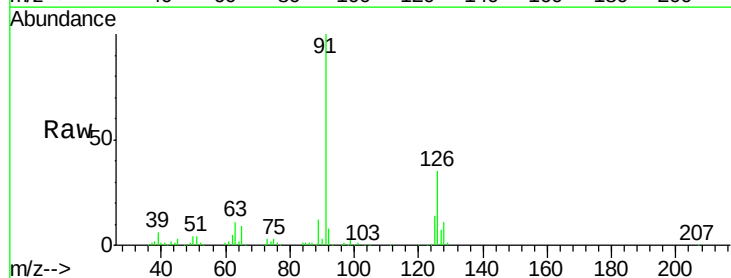
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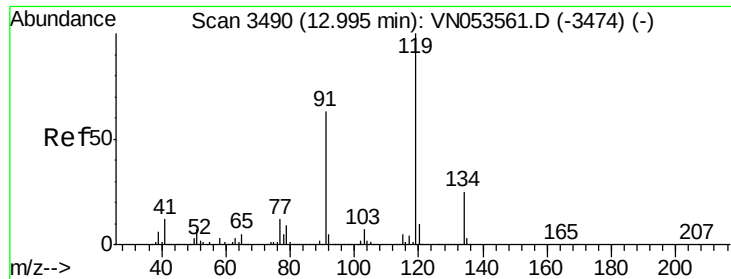
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#82
4-Chlorotoluene
Concen: 20.131 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. 0.00 min
Lab File: VN053713.D
Acq: 11 Feb 2019 19:01

Tgt Ion	Ratio	Lower	Upper
91	100		
126	35.5	17.6	52.9





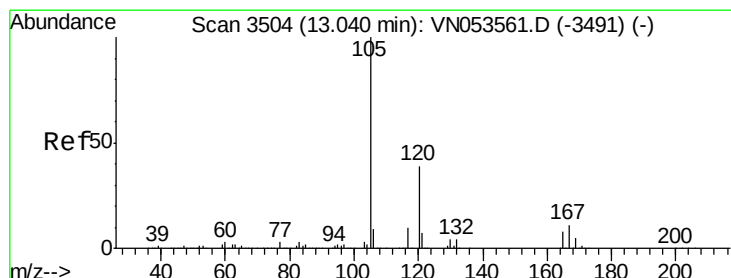
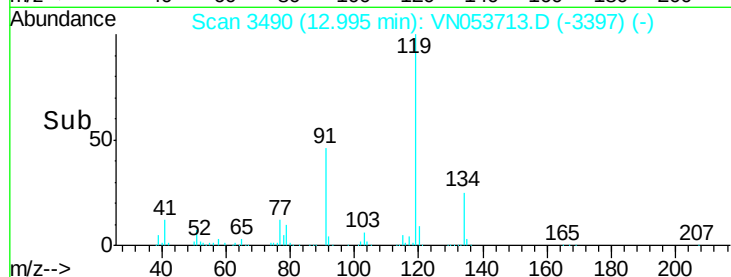
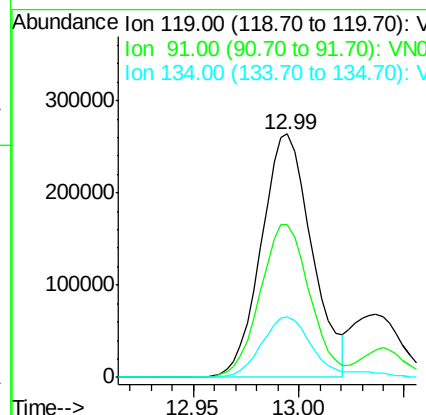
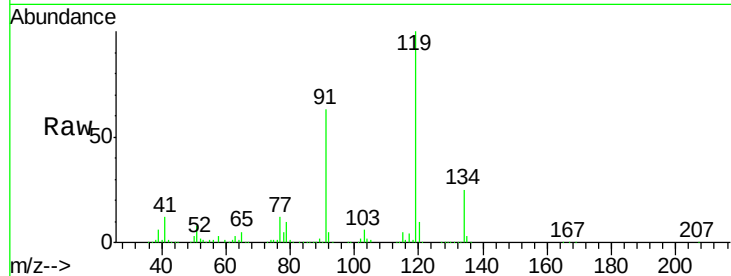
#83
 tert-Butylbenzene
 Concen: 21.599 ug/l
 RT: 12.99 min Scan# 3490
 Delta R.T. 0.00 min
 Lab File: VN053713.D
 Acq: 11 Feb 2019 19:01

Instrument :
 MSVOA_N
 ClientSampled :
 VN0211WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	440486		
91	61.9		31.3	93.8
134	26.0		12.9	38.7

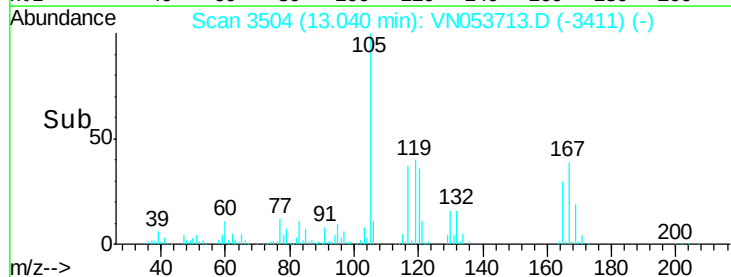
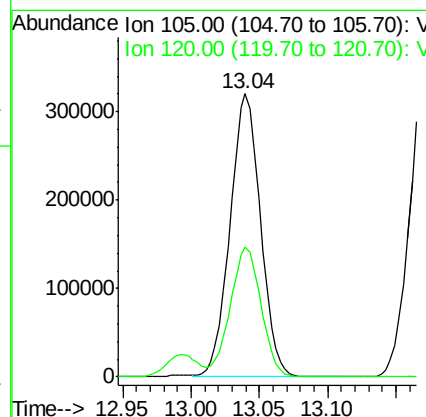
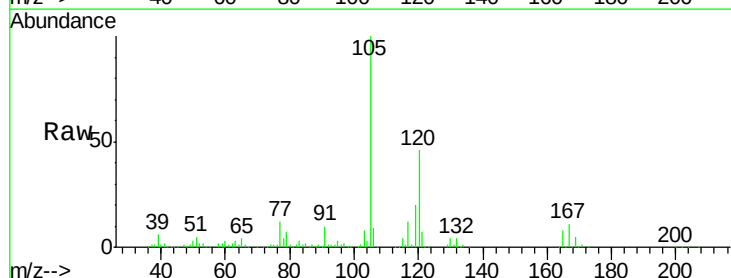
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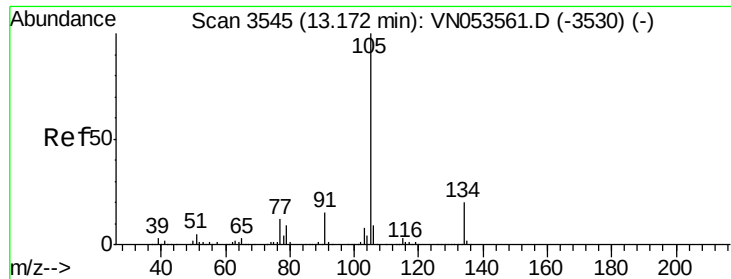
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#84
 1,2,4-Trimethylbenzene
 Concen: 21.097 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.00 min
 Lab File: VN053713.D
 Acq: 11 Feb 2019 19:01

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	495969		
120	46.6		23.0	69.0





#85

sec-Butylbenzene

Concen: 21.218 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN053713.D

Acq: 11 Feb 2019 19:01

Instrument :

MSVOA_N

ClientSampleId :

VN0211WBSD01

Tot Ion:105 Resp: 588832

Ion Ratio Lower Upper

105 100

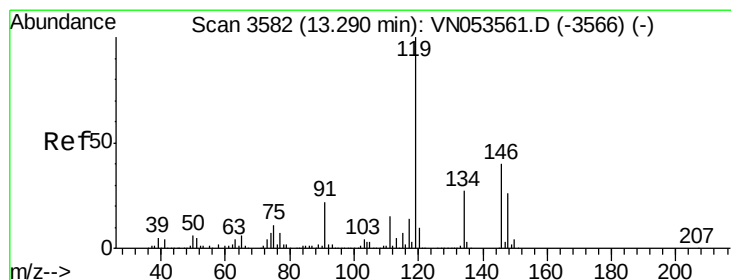
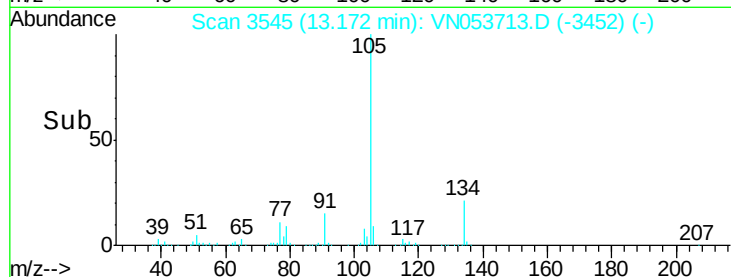
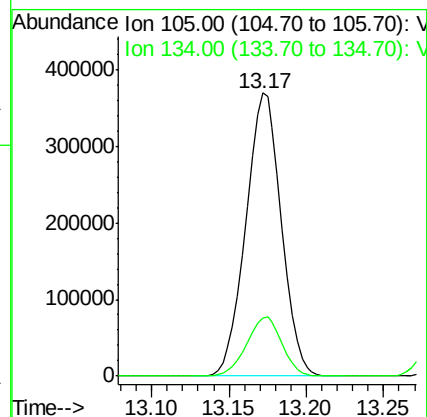
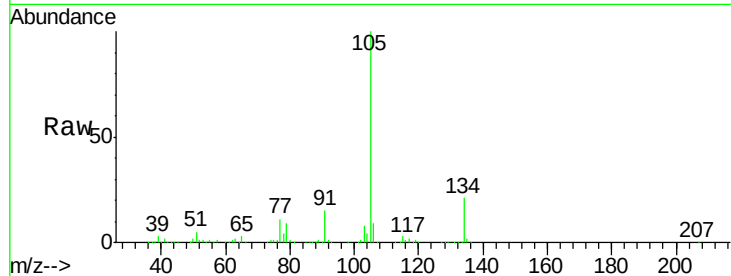
134 20.7 10.2 30.6

Manual Integrations

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#86

p-Isopropyltoluene

Concen: 20.797 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN053713.D

Acq: 11 Feb 2019 19:01

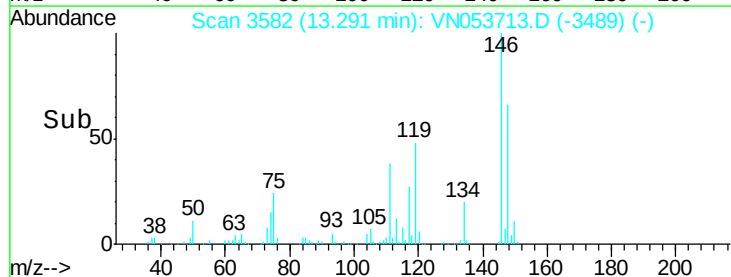
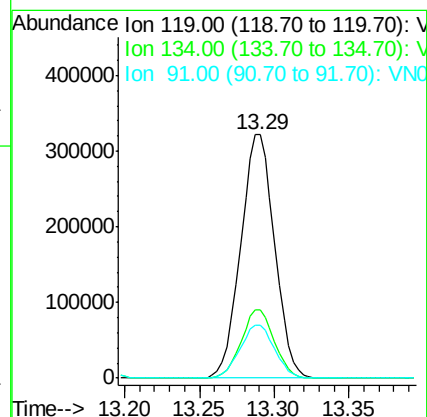
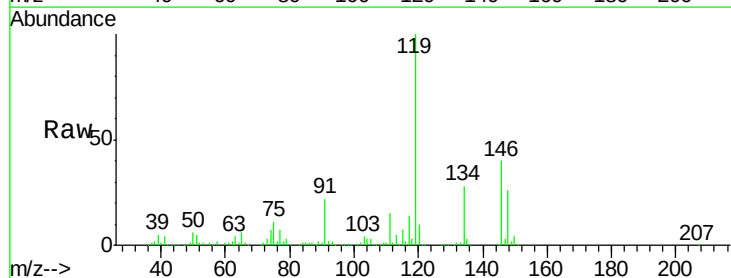
Tgt Ion:119 Resp: 504765

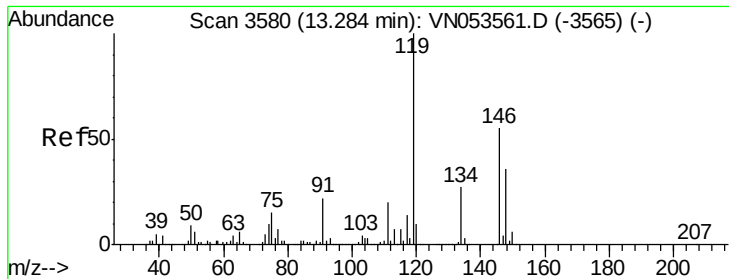
Ion Ratio Lower Upper

119 100

134 27.4 13.5 40.4

91 22.1 11.0 33.0





#87

1,3-Dichlorobenzene

Concen: 19.575 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. 0.00 min

Lab File: VN053713.D

Acq: 11 Feb 2019 19:01

Instrument :

MSVOA_N

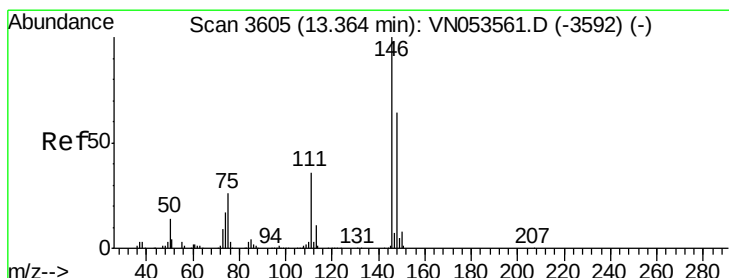
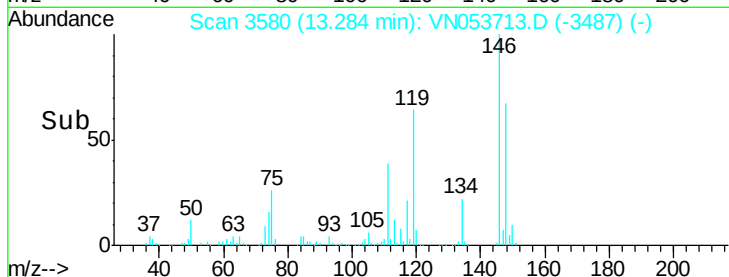
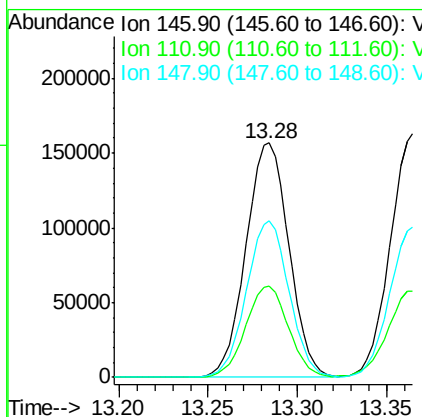
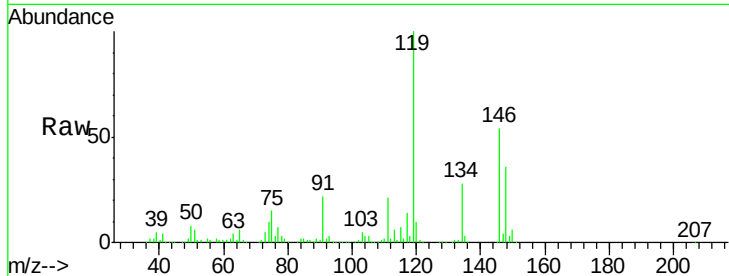
ClientSampled :

VN0211WBSD01

Tot Ion:	146	Resp:	263893
Ion Ratio	Lower	Upper	
146	100		
111	38.7	18.8	56.3
148	66.1	32.0	96.2

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#88

1,4-Dichlorobenzene

Concen: 19.835 ug/l

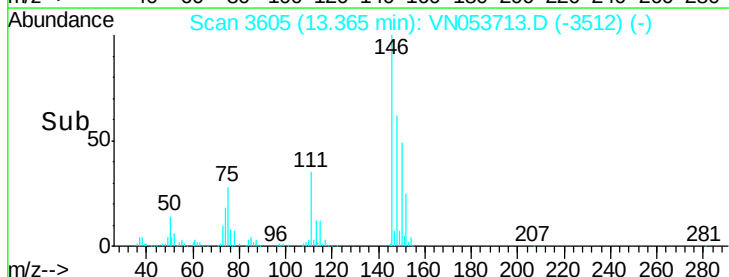
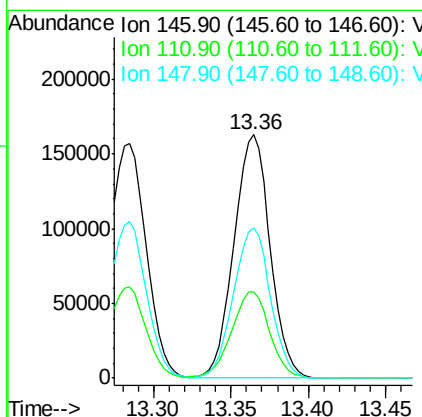
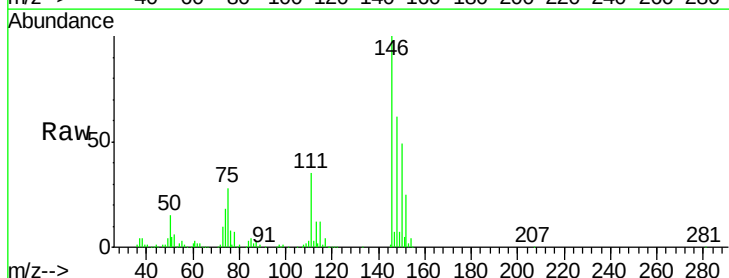
RT: 13.36 min Scan# 3605

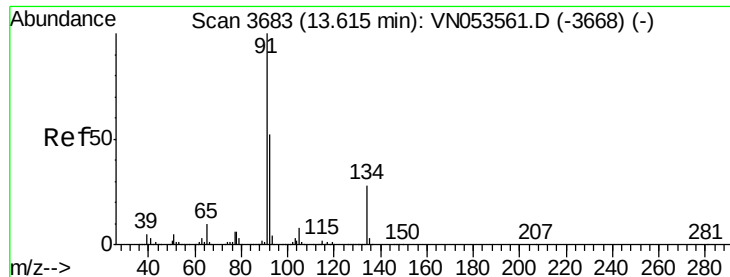
Delta R.T. 0.00 min

Lab File: VN053713.D

Acq: 11 Feb 2019 19:01

Tgt Ion:	146	Resp:	264506
Ion Ratio	Lower	Upper	
146	100		
111	37.3	18.6	55.8
148	63.1	32.4	97.0





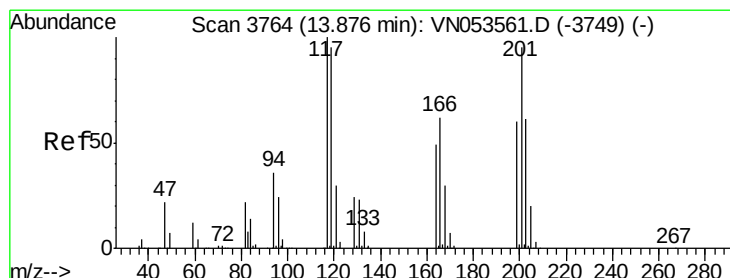
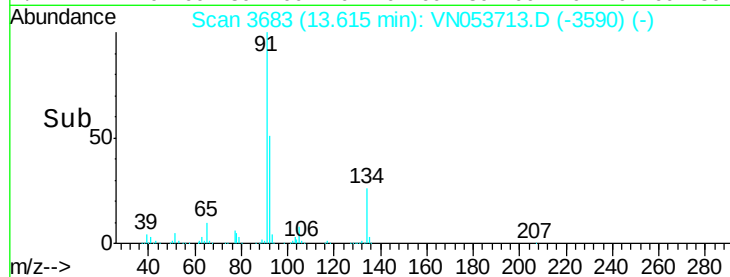
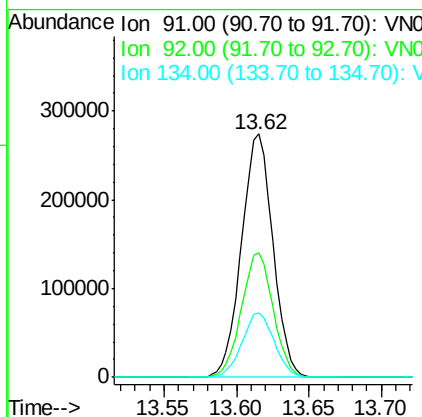
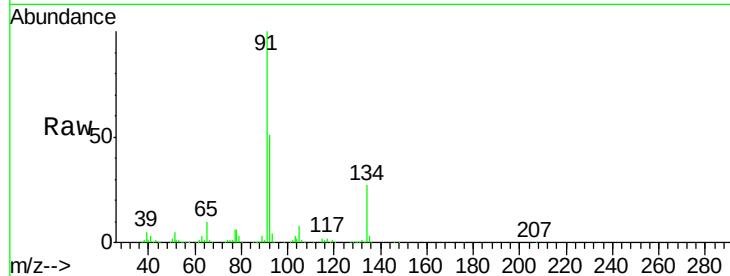
#89
n-Butylbenzene
Concen: 19.735 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN053713.D
Acq: 11 Feb 2019 19:01

Instrument :
MSVOA_N
ClientSampled :
VN0211WBSD01

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.6	26.3	78.8
134	27.0	13.5	40.5

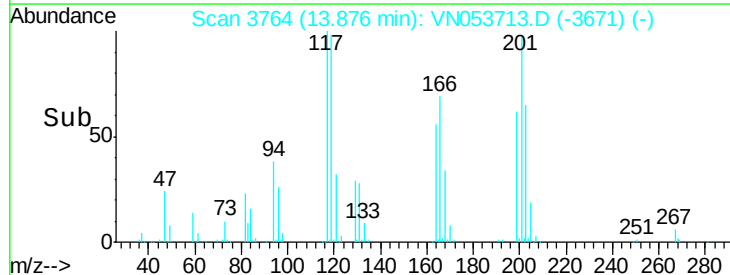
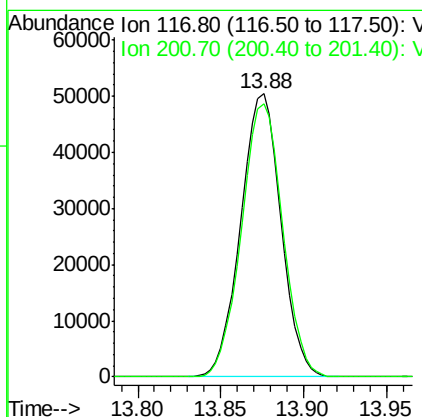
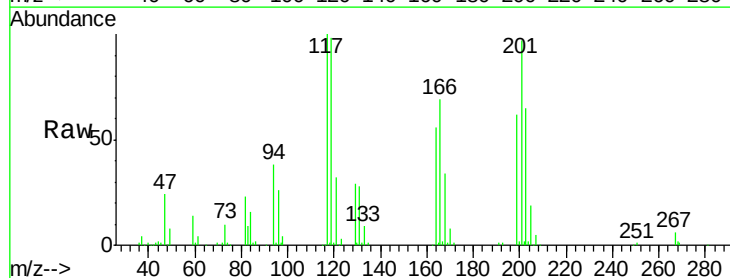
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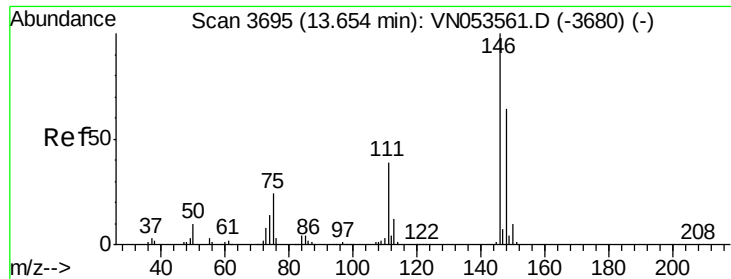
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#90
Hexachloroethane
Concen: 21.326 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. 0.00 min
Lab File: VN053713.D
Acq: 11 Feb 2019 19:01

Tgt Ion	Ratio	Lower	Upper
117	100		
201	98.4	46.8	140.4





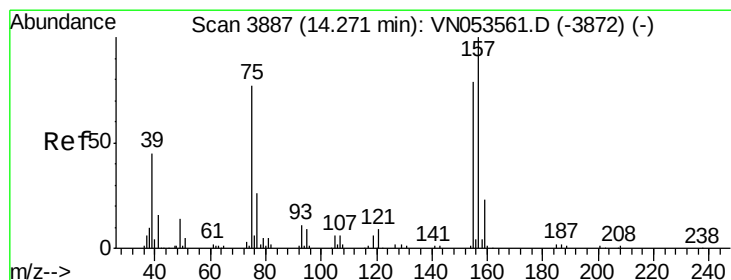
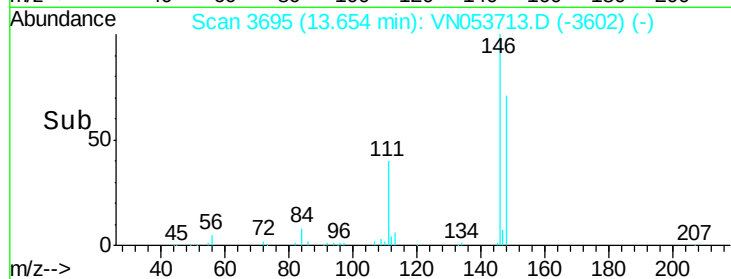
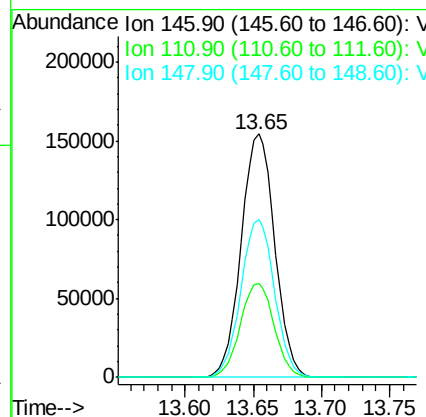
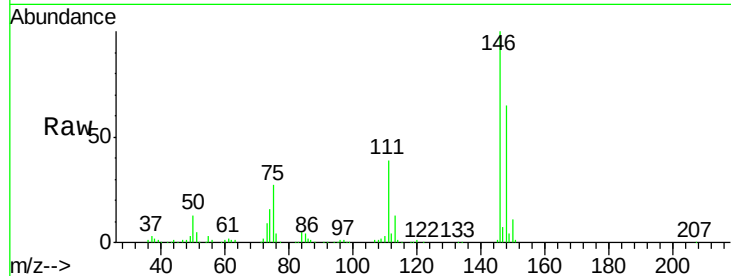
#91
 1,2-Dichlorobenzene
 Concen: 20.422 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN053713.D
 Acq: 11 Feb 2019 19:01

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0211WBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.8	19.5	58.5
148	64.9	31.9	95.9

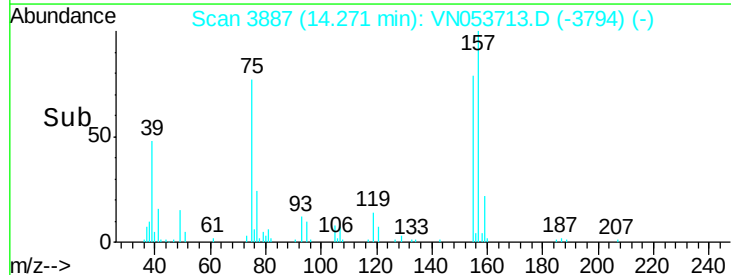
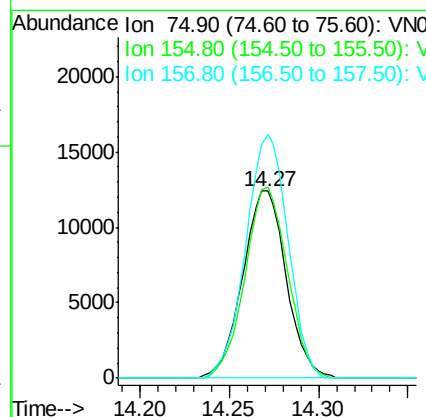
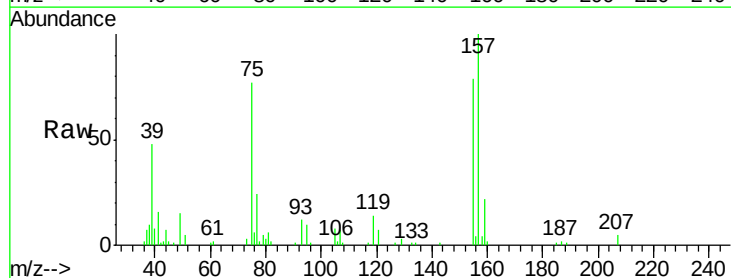
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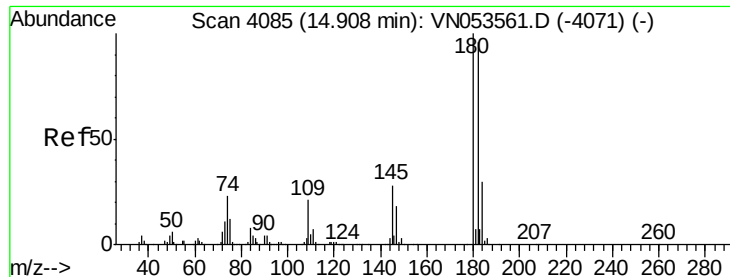
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 2/12/2019 12:49:57 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 22.255 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. 0.00 min
 Lab File: VN053713.D
 Acq: 11 Feb 2019 19:01

Tgt Ion	Ratio	Lower	Upper
75	100		
155	99.8	48.9	146.7
157	126.2	63.7	191.3





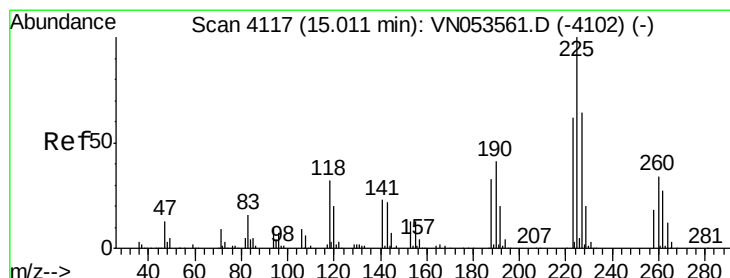
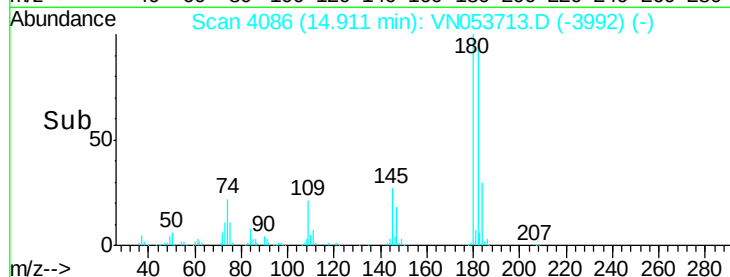
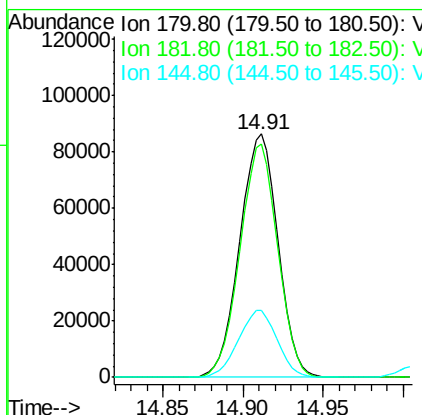
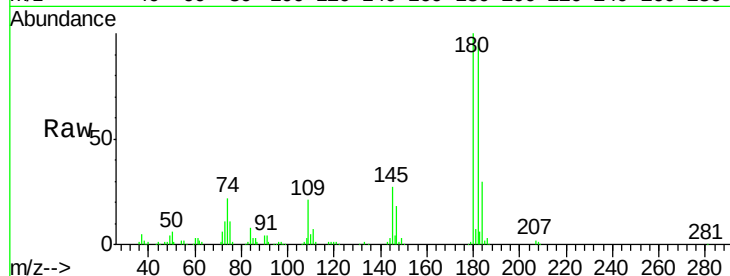
#93
 1,2,4-Trichlorobenzene
 Concen: 19.049 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN053713.D
 Acq: 11 Feb 2019 19:01

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0211WBSD01

Tot Ion:	180	Resp:	141001
Ion Ratio	Lower	Upper	
180	100		
182	94.4	48.1	144.3
145	27.9	13.9	41.6

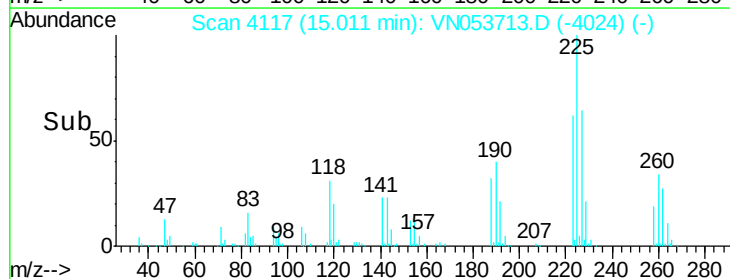
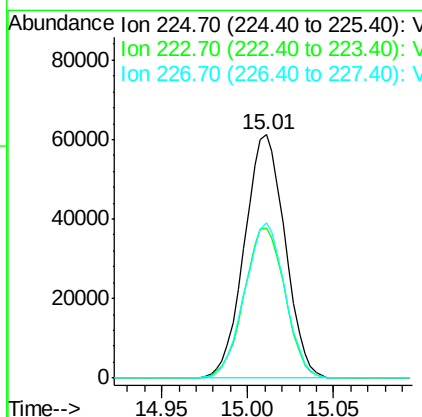
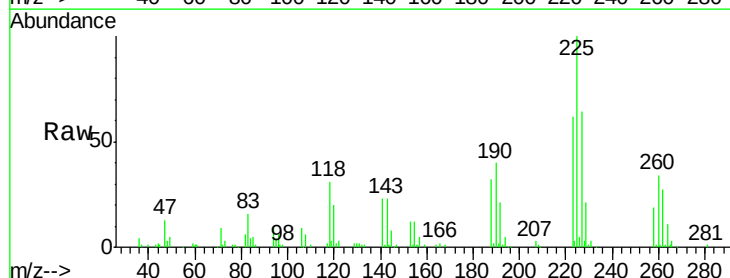
Manual Integrations
 APPROVED

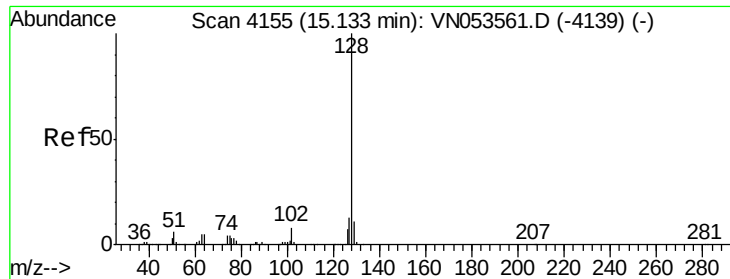
MMDadoda
 2/12/2019 12:49:57 PM



#94
 Hexachlorobutadiene
 Concen: 21.703 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN053713.D
 Acq: 11 Feb 2019 19:01

Tgt Ion:	225	Resp:	100046
Ion Ratio	Lower	Upper	
225	100		
223	62.1	31.1	93.2
227	63.4	32.0	96.2





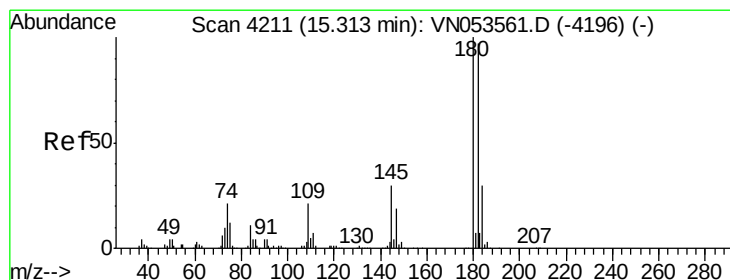
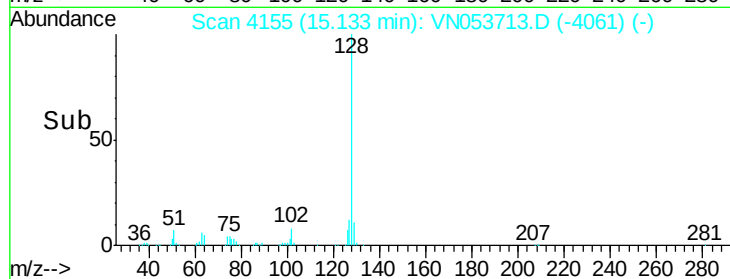
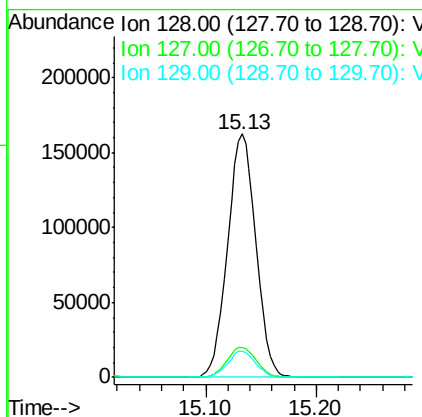
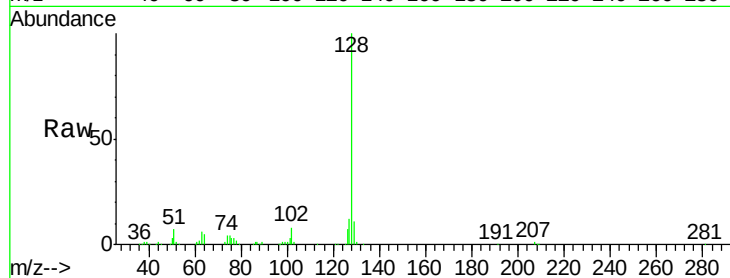
#95
Naphthalene
Concen: 17.740 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN053713.D
Acq: 11 Feb 2019 19:01

Instrument :
MSVOA_N
ClientSampleId :
VN0211WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
128	100	288274		
127	12.7	10.3	15.5	
129	10.7	8.6	13.0	

Manual Integrations
APPROVED

MMDadoda
2/12/2019 12:49:57 PM



#96
1,2,3-Trichlorobenzene
Concen: 19.919 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. 0.00 min
Lab File: VN053713.D
Acq: 11 Feb 2019 19:01

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	136807		
182	95.7	47.9	143.8	
145	29.5	14.7	44.1	

