

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN103018\
 Data File : VN052064.D
 Acq On : 30 Oct 2018 15:10
 Operator : MD\SY
 Sample : VN1030WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1030WBSD01

Manual Integrations
 APPROVED

MMDadoda
 11/1/2018 11:48:22 AM

Quant Time: Oct 31 04:14:51 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N103018W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 31 02:45:22 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	248726	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	489571	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	437270	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	176081	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	201866	50.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.16%	
35) Dibromofluoromethane	7.59	113	151087	49.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.66%	
50) Toluene-d8	10.09	98	608982	49.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.50%	
62) 4-Bromofluorobenzene	12.40	95	213367	47.48	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.96%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	70115	23.191	ug/l	95
3) Chloromethane	2.06	50	84422	22.156	ug/l	97
4) Vinyl Chloride	2.19	62	89825	21.902	ug/l	98
5) Bromomethane	2.57	94	60291	19.598	ug/l	99
6) Chloroethane	2.71	64	53810	20.322	ug/l	97
7) Trichlorofluoromethane	3.02	101	99144	21.169	ug/l	97
8) Diethyl Ether	3.41	74	37686	21.570	ug/l	94
9) 1,1,2-Trichlorotrifluoroet	3.76	101	61504	22.259	ug/l	97
10) Methyl Iodide	3.96	142	78922	21.796	ug/l	99
11) Tert butyl alcohol	4.78	59	18760	93.861	ug/l #	76
12) 1,1-Dichloroethene	3.74	96	60214	23.077	ug/l	92
13) Acrolein	3.61	56	24012	131.998	ug/l	97
14) Allyl chloride	4.33	41	106620	20.418	ug/l	97
15) Acrylonitrile	4.99	53	111943	97.970	ug/l	97
16) Acetone	3.82	43	78736	92.417	ug/l	96
17) Carbon Disulfide	4.06	76	176656	21.486	ug/l	97
18) Methyl Acetate	4.33	43	52115	19.215	ug/l	99
19) Methyl tert-butyl Ether	5.05	73	174992	20.418	ug/l	99
20) Methylene Chloride	4.56	84	71635	22.067	ug/l	96
21) trans-1,2-Dichloroethene	5.05	96	64464	21.667	ug/l	96
22) Diisopropyl ether	5.95	45	238024	21.089	ug/l	97
23) Vinyl Acetate	5.90	43	808328	103.363	ug/l	100
24) 1,1-Dichloroethane	5.85	63	132634	21.015	ug/l	99
25) 2-Butanone	6.84	43	132945	99.489	ug/l	97
26) 2,2-Dichloropropane	6.83	77	93142	18.583	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	74887	21.076	ug/l	100
28) Bromochloromethane	7.20	49	59390	18.988	ug/l	96
29) Tetrahydrofuran	7.21	42	87618	98.420	ug/l	95
30) Chloroform	7.37	83	128440	20.388	ug/l	96
31) Cyclohexane	7.66	56	125281	19.624	ug/l	94
32) 1,1,1-Trichloroethane	7.57	97	105726	20.868	ug/l	100
36) 1,1-Dichloropropene	7.79	75	99128	19.913	ug/l	99
37) Ethyl Acetate	6.93	43	60539	18.169	ug/l #	95
38) Carbon Tetrachloride	7.78	117	86327	20.112	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

39) Methylcyclohexane	9.08	83	117085	19.820	ug/l	94
40) Benzene	8.04	78	293164	20.360	ug/l	97
41) Methacrylonitrile	7.17	41	31868	18.624	ug/l #	81
42) 1,2-Dichloroethane	8.13	62	103132	19.409	ug/l	98
43) Isopropyl Acetate	8.17	43	115694	19.523	ug/l #	87
44) Trichloroethene	8.83	130	67848	21.070	ug/l	98
45) 1,2-Dichloropropane	9.12	63	80990	19.745	ug/l	98
46) Dibromomethane	9.21	93	48813	21.293	ug/l	97
47) Bromodichloromethane	9.40	83	96430	20.169	ug/l	94
48) Methyl methacrylate	9.20	41	58432	19.448	ug/l	97
49) 1,4-Dioxane	9.20	88	10702	439.207	ug/l #	86
51) 4-Methyl-2-Pentanone	9.98	43	319763	99.273	ug/l	100
52) Toluene	10.16	92	176384	20.293	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	93420	18.481	ug/l	97
54) cis-1,3-Dichloropropene	9.84	75	110527	19.689	ug/l	97
55) 1,1,2-Trichloroethane	10.56	97	64202	20.739	ug/l	100
56) Ethyl methacrylate	10.43	69	87655	19.794	ug/l	99
57) 1,3-Dichloropropane	10.71	76	112920	19.824	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.70	63	235592	100.018	ug/l	99
59) 2-Hexanone	10.75	43	212413	92.539	ug/l	98
60) Dibromochloromethane	10.90	129	58667	19.250	ug/l	98
61) 1,2-Dibromoethane	11.00	107	60436	19.638	ug/l	98
64) Tetrachloroethene	10.63	164	53286	20.115	ug/l	95
65) Chlorobenzene	11.43	112	189864	20.615	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	59110	20.440	ug/l	99
67) Ethyl Benzene	11.51	91	336520	20.490	ug/l	99
68) m/p-Xylenes	11.62	106	248620	42.292	ug/l	99
69) o-Xylene	11.95	106	124291	21.367	ug/l	99
70) Styrene	11.96	104	191020	20.295	ug/l	97
71) Bromoform	12.13	173	31448	18.363	ug/l #	98
73) Isopropylbenzene	12.25	105	323196	21.464	ug/l	100
74) N-amyl acetate	12.07	43	105721	20.119	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	76566	21.206	ug/l	98
76) 1,2,3-Trichloropropane	12.55	75	72650m	22.539	ug/l	
77) Bromobenzene	12.52	156	66348	21.060	ug/l	96
78) n-propylbenzene	12.59	91	379034	20.774	ug/l	100
79) 2-Chlorotoluene	12.67	91	226831	21.326	ug/l	98
80) 1,3,5-Trimethylbenzene	12.73	105	261150	21.313	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	18686	19.242	ug/l	92
82) 4-Chlorotoluene	12.77	91	233939	21.569	ug/l	99
83) tert-Butylbenzene	12.99	119	219523	21.327	ug/l	98
84) 1,2,4-Trimethylbenzene	13.04	105	261432	21.435	ug/l	99
85) sec-Butylbenzene	13.17	105	316958	21.556	ug/l	100
86) p-Isopropyltoluene	13.29	119	249935	20.872	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	117867	20.515	ug/l	100
88) 1,4-Dichlorobenzene	13.36	146	120649	20.952	ug/l	97
89) n-Butylbenzene	13.61	91	236168	20.680	ug/l	100
90) Hexachloroethane	13.87	117	41791	20.364	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	115987	21.472	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.27	75	10597	20.907	ug/l	98

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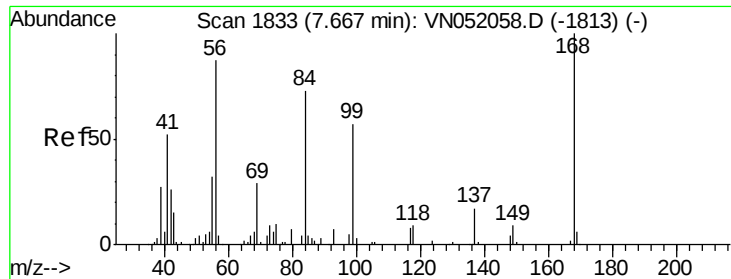
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	45598	22.669	ug/l	96
94) Hexachlorobutadiene	15.01	225	25180	22.366	ug/l	95
95) Naphthalene	15.13	128	112168	22.232	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	39235	22.603	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN052064.D

Acq: 30 Oct 2018 15:10

Instrument :

MSVOA_N

ClientSampleId :

VN1030WBSD01

Tot Ion:168 Resp: 248726

Ion Ratio Lower Upper

168 100

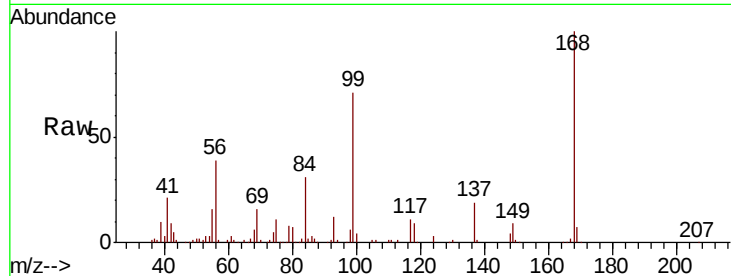
99 70.9 56.6 85.0

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

120000

100000

80000

60000

40000

20000

0

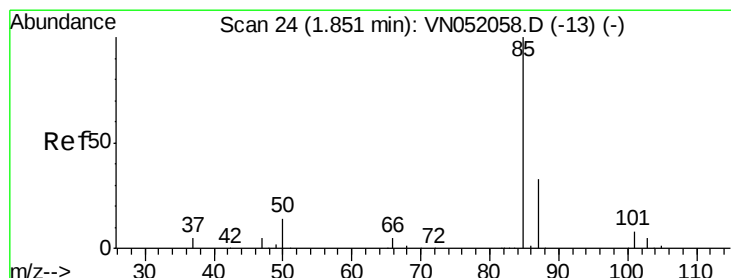
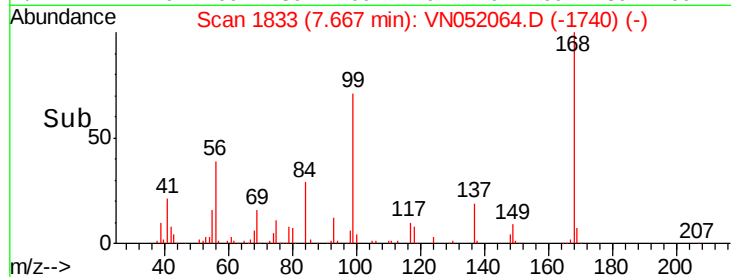
7.60

7.67

7.70

7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 23.191 ug/l

RT: 1.85 min Scan# 25

Delta R.T. 0.00 min

Lab File: VN052064.D

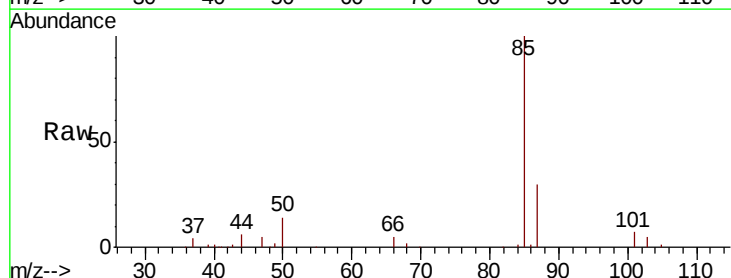
Acq: 30 Oct 2018 15:10

Tgt Ion: 85 Resp: 70115

Ion Ratio Lower Upper

85 100

87 29.9 16.3 48.8



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

60000

50000

40000

30000

20000

10000

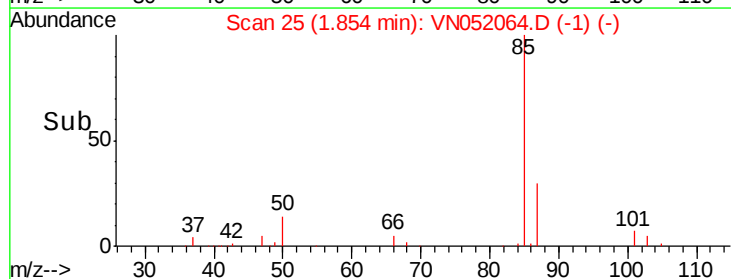
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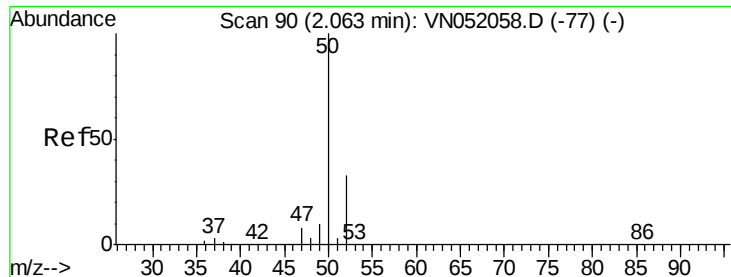
1.80

1.85

1.90

Time-->





#3

Chloromethane

Concen: 22.156 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN052064.D

Acq: 30 Oct 2018 15:10

Instrument :

MSVOA_N

ClientSampleId :

VN1030WBSD01

Tot Ion: 50 Resp: 84422

Ion Ratio Lower Upper

50 100

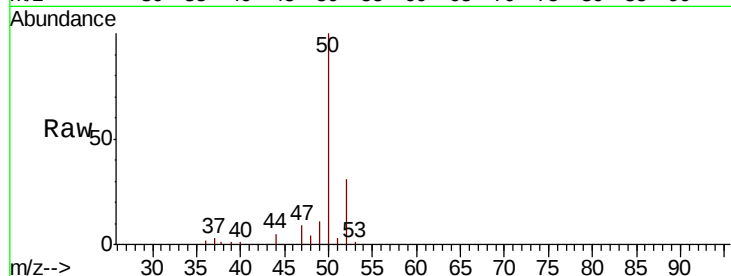
52 31.3 26.6 39.8

Manual Integrations

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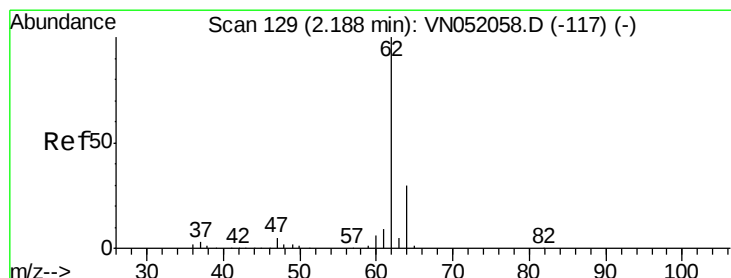
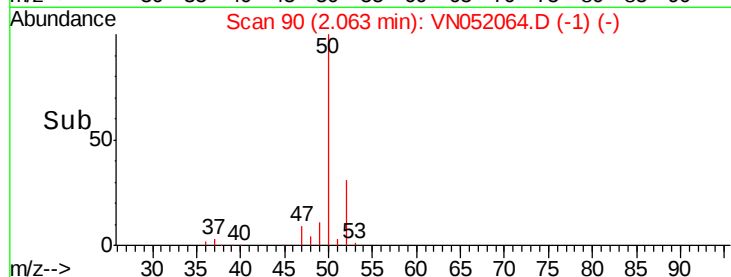
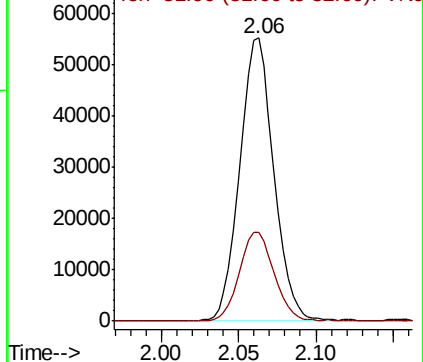
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Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO



#4

Vinyl Chloride

Concen: 21.902 ug/l

RT: 2.19 min Scan# 130

Delta R.T. 0.00 min

Lab File: VN052064.D

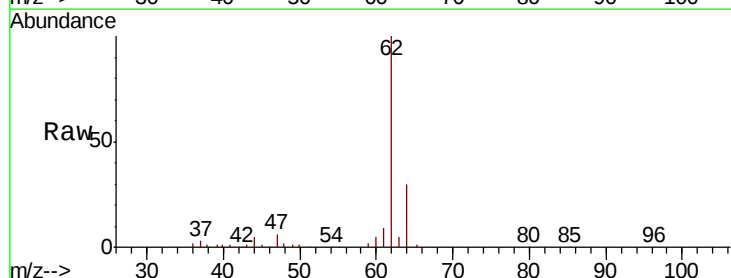
Acq: 30 Oct 2018 15:10

Tgt Ion: 62 Resp: 89825

Ion Ratio Lower Upper

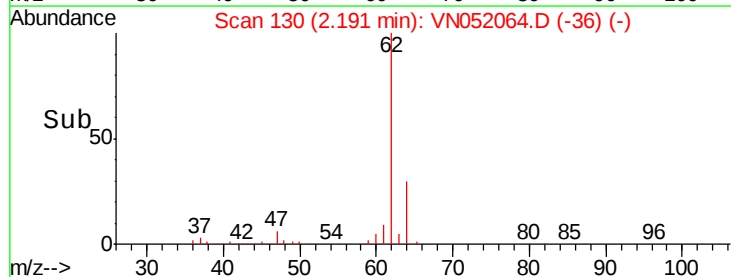
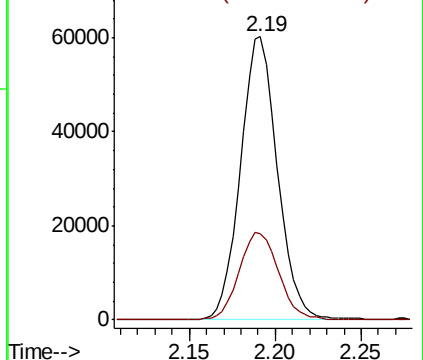
62 100

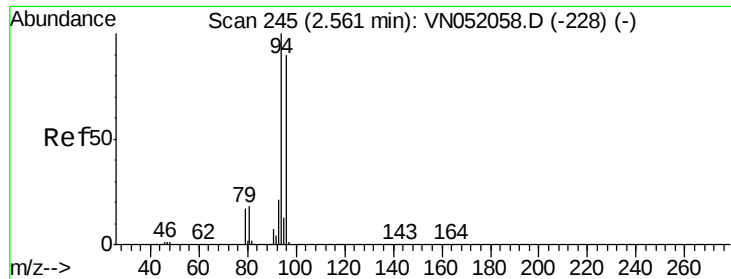
64 30.5 23.7 35.5



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO





#5

Bromomethane

Concen: 19.598 ug/l

RT: 2.57 min Scan# 247

Delta R.T. 0.01 min

Lab File: VN052064.D

Acq: 30 Oct 2018 15:10

Instrument :

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ClientSampleId :

VN1030WBSD01

Tot Ion: 94 Resp: 60291

Ion Ratio Lower Upper

94 100

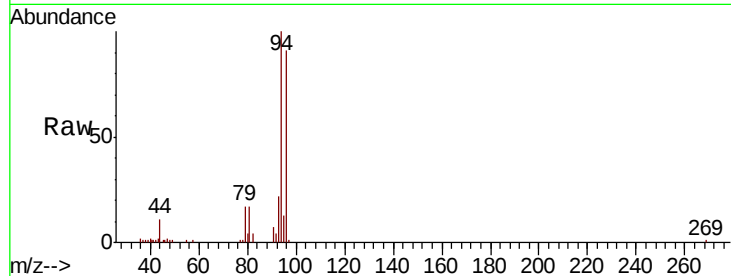
96 90.6 71.8 107.6

Manual Integrations

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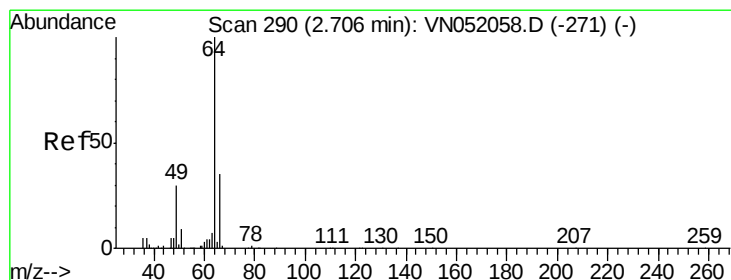
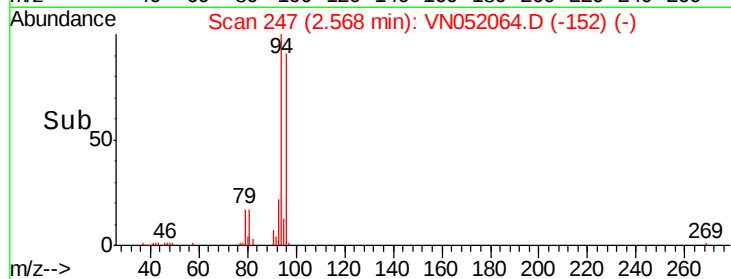
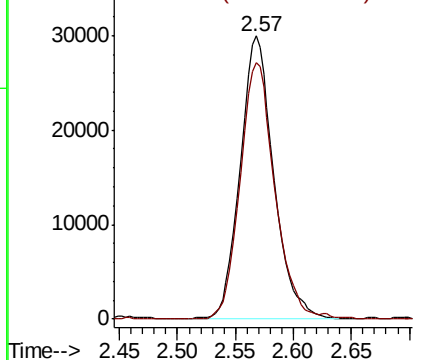
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Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 20.322 ug/l

RT: 2.71 min Scan# 291

Delta R.T. 0.00 min

Lab File: VN052064.D

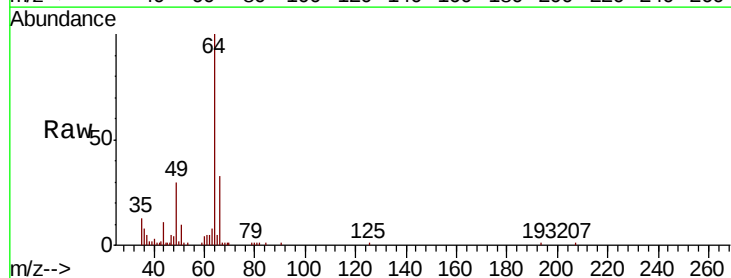
Acq: 30 Oct 2018 15:10

Tgt Ion: 64 Resp: 53810

Ion Ratio Lower Upper

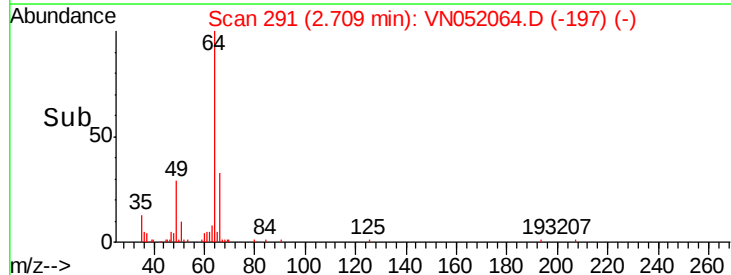
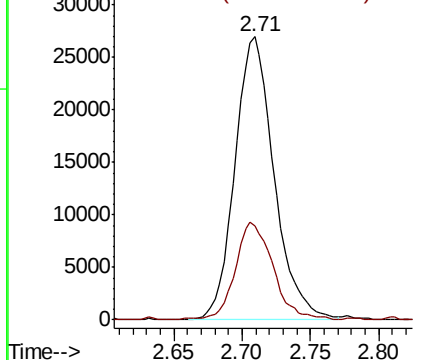
64 100

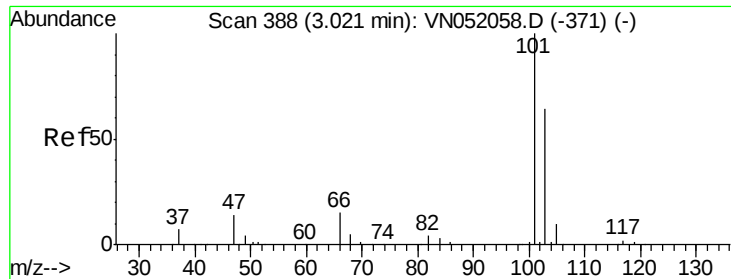
66 33.1 27.9 41.9



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#7

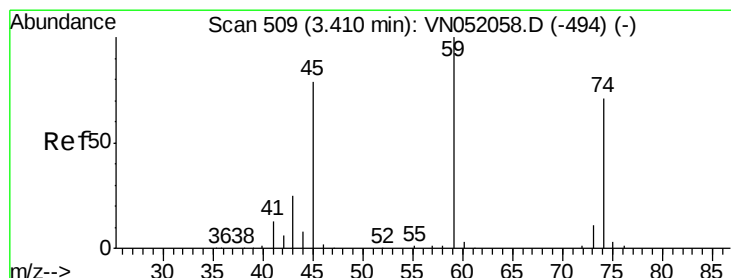
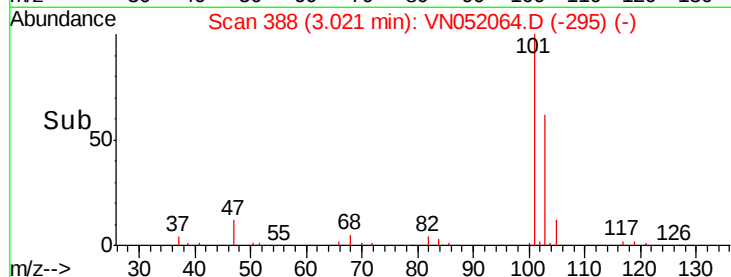
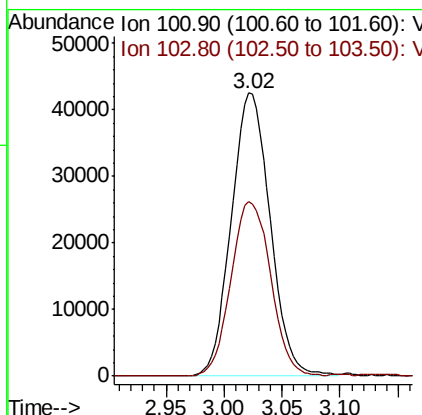
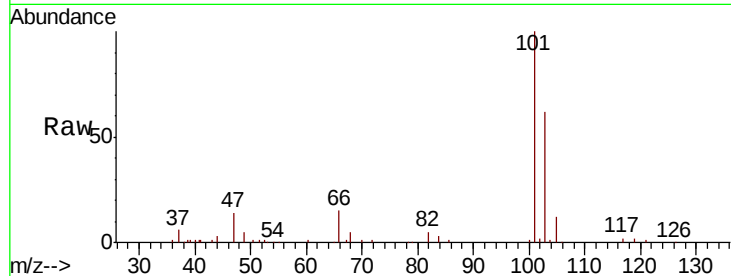
Trichlorofluoromethane
 Concen: 21.169 ug/l
 RT: 3.02 min Scan# 388
 Delta R.T. 0.00 min
 Lab File: VN052064.D
 Acq: 30 Oct 2018 15:10

Instrument :
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 VN1030WBSD01

Tot Ion:101 Resp: 99144
 Ion Ratio Lower Upper
 101 100
 103 61.6 51.0 76.4

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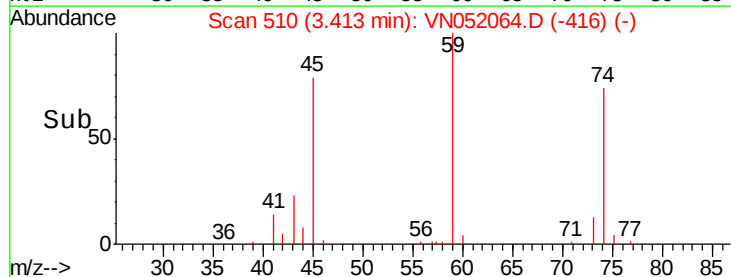
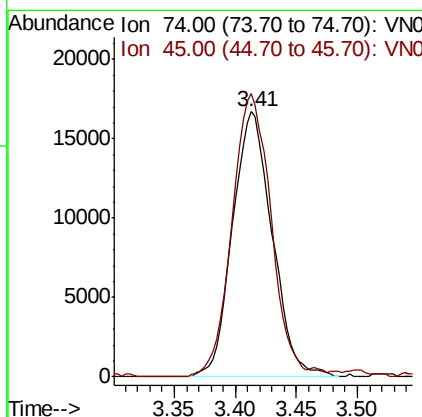
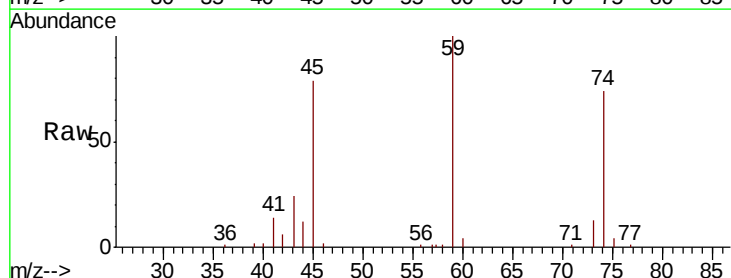
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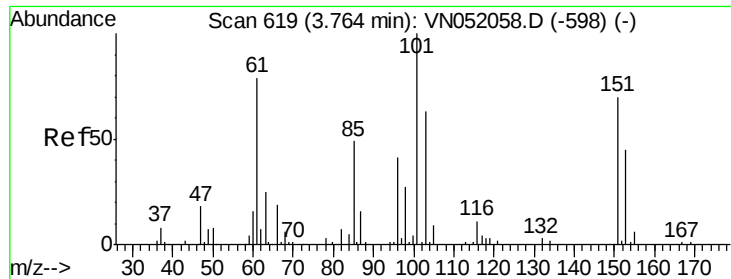


#8

Diethyl Ether
 Concen: 21.570 ug/l
 RT: 3.41 min Scan# 510
 Delta R.T. 0.00 min
 Lab File: VN052064.D
 Acq: 30 Oct 2018 15:10

Tgt Ion: 74 Resp: 37686
 Ion Ratio Lower Upper
 74 100
 45 104.8 55.6 166.8





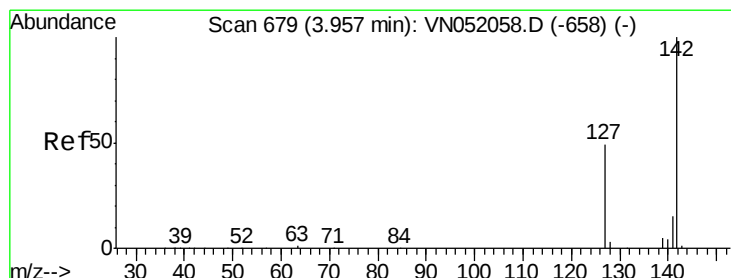
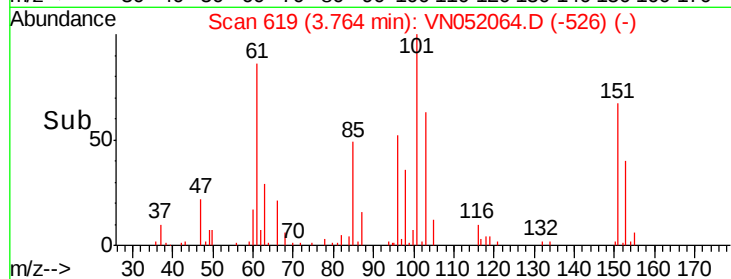
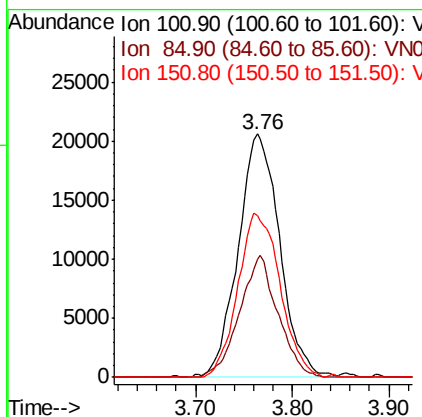
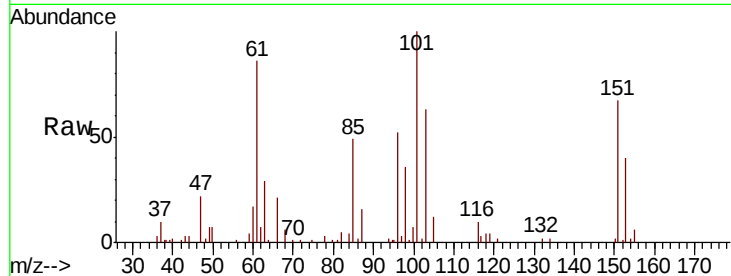
#9
1,1,2-Trichlorotrifluoroethane
Concen: 22.259 ug/l
RT: 3.76 min Scan# 619
Delta R.T. 0.00 min
Lab File: VN052064.D
Acq: 30 Oct 2018 15:10

Instrument :
MSVOA_N
ClientSampleId :
VN1030WBSD01

Tot Ion	Ratio	Lower	Upper
101	100		
85	46.2	38.6	58.0
151	68.3	52.6	78.8

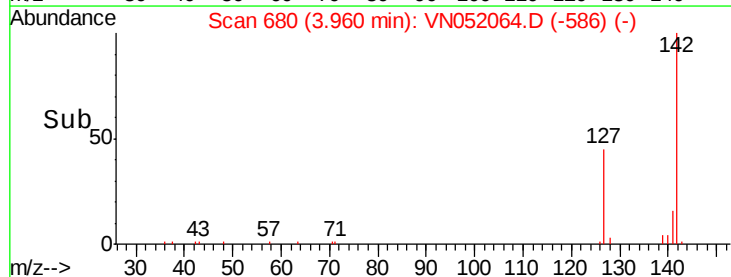
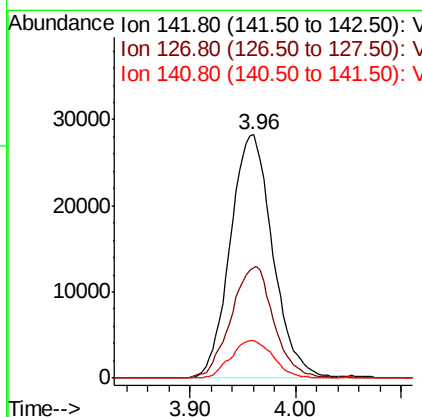
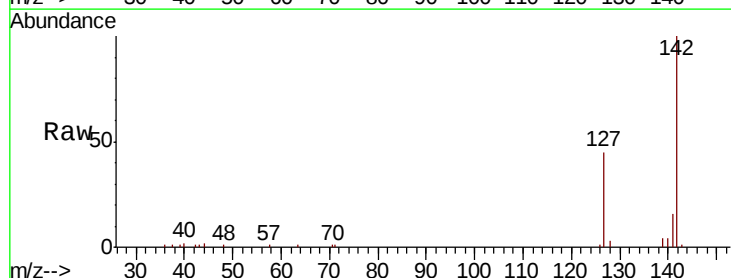
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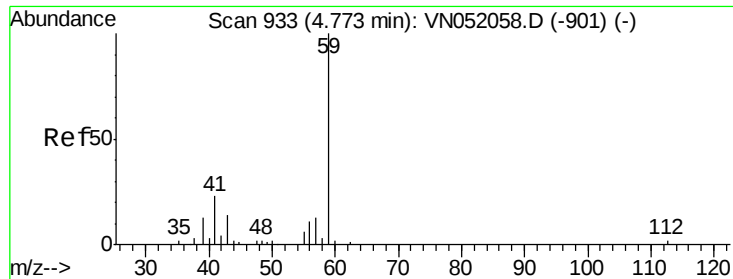
MMDadoda
11/1/2018 11:48:22 AM



#10
Methyl Iodide
Concen: 21.796 ug/l
RT: 3.96 min Scan# 680
Delta R.T. 0.00 min
Lab File: VN052064.D
Acq: 30 Oct 2018 15:10

Tgt Ion	Ratio	Lower	Upper
142	100		
127	46.1	37.3	55.9
141	15.5	11.4	17.2





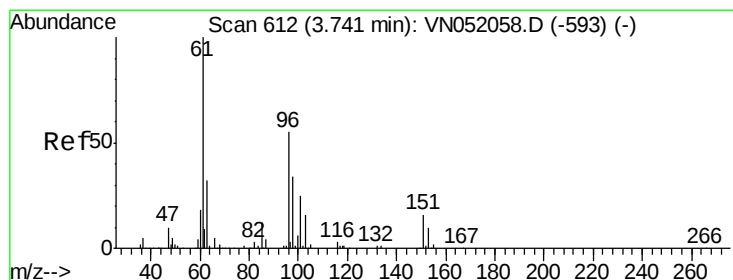
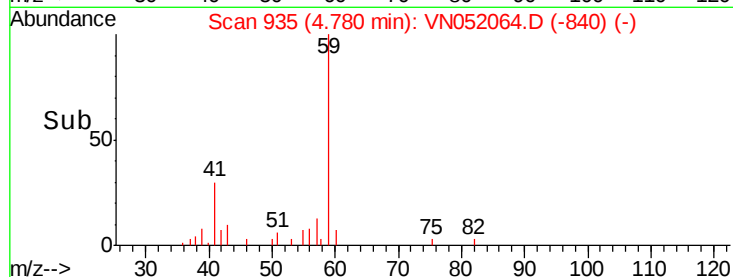
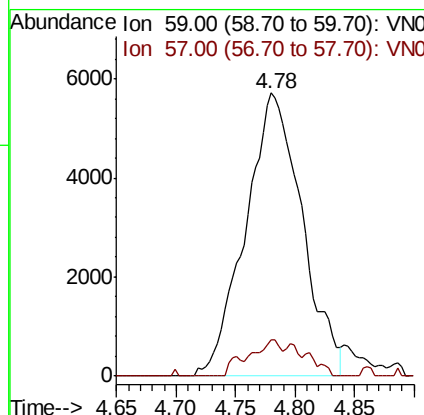
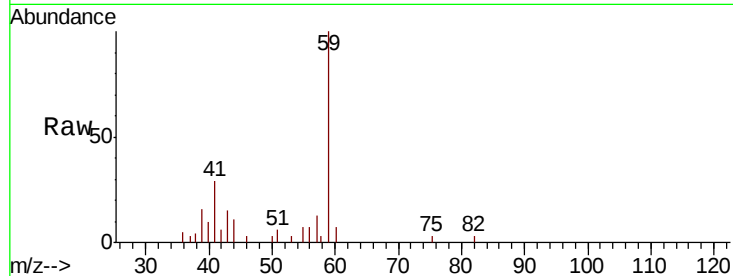
#11
Tert butyl alcohol
Concen: 93.861 ug/l
RT: 4.78 min Scan# 935
Delta R.T. 0.01 min
Lab File: VN052064.D
Acq: 30 Oct 2018 15:10

Instrument :
MSVOA_N
ClientSampleId :
VN1030WBSD01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
59	100		18760		
57	0.0		7.0	10.6	

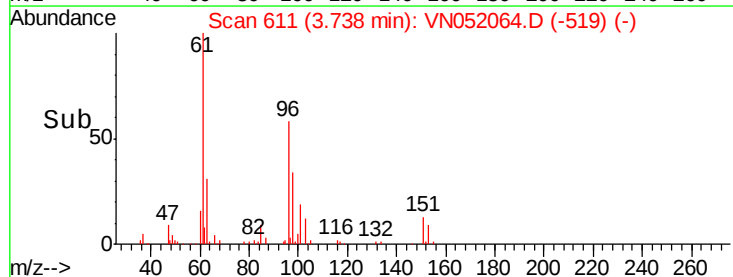
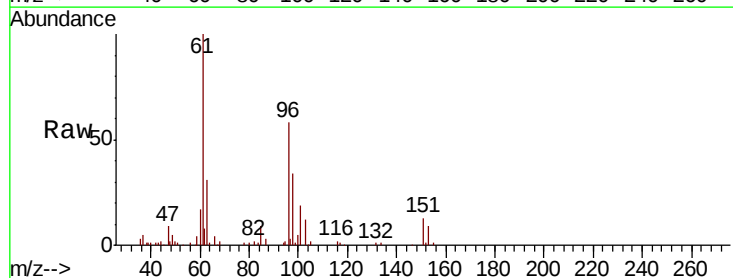
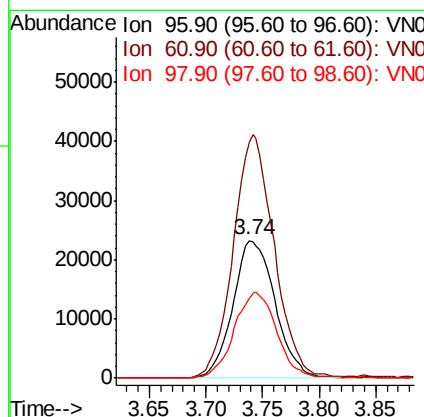
Manual Integrations
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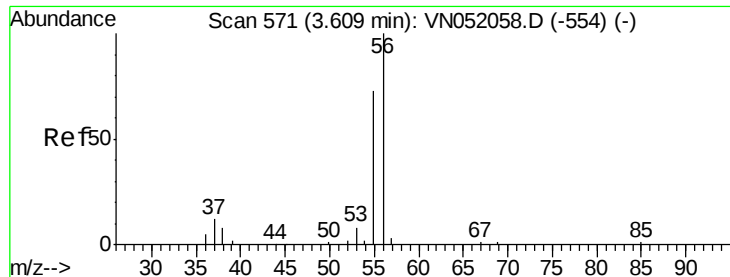
MMDadoda
11/1/2018 11:48:22 AM



#12
1,1-Dichloroethene
Concen: 23.077 ug/l
RT: 3.74 min Scan# 611
Delta R.T. -0.00 min
Lab File: VN052064.D
Acq: 30 Oct 2018 15:10

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
96	100		60214		
61	170.5		145.7	218.5	
98	57.7		49.8	74.8	





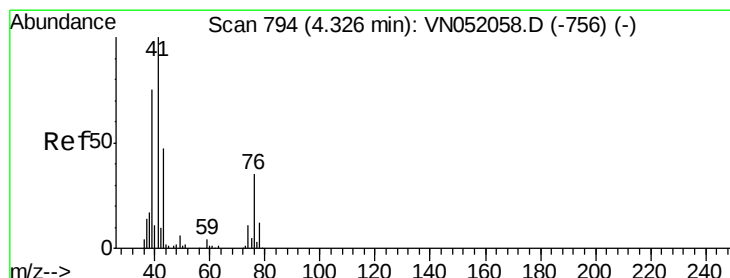
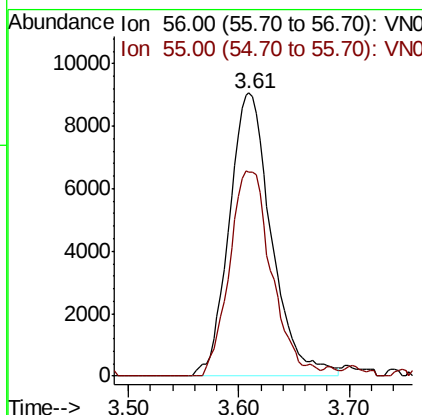
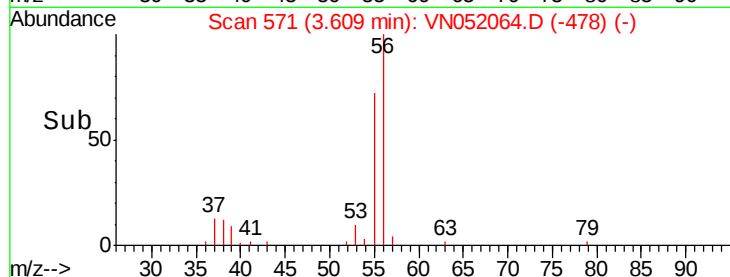
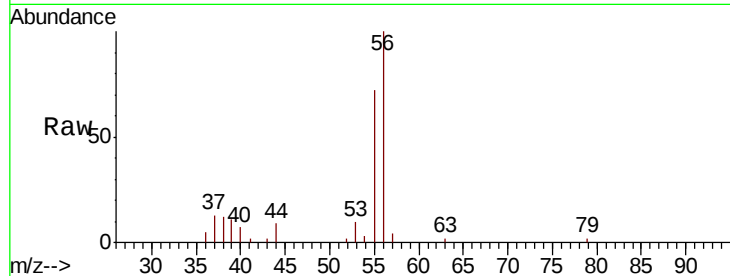
#13
Acrolein
Concen: 131.998 ug/l
RT: 3.61 min Scan# 571
Delta R.T. 0.00 min
Lab File: VN052064.D
Acq: 30 Oct 2018 15:10

Instrument :
MSVOA_N
ClientSampleId :
VN1030WBSD01

Tot Ion	56	55	Ratio	Lower	Upper
24012	100	72.2		59.9	89.9

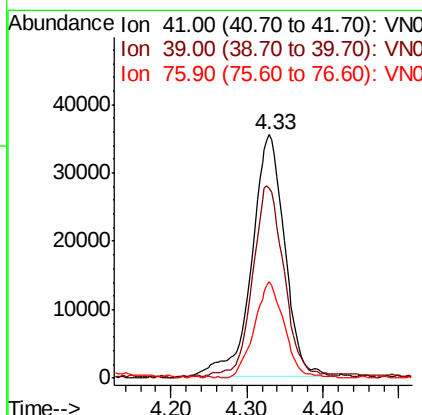
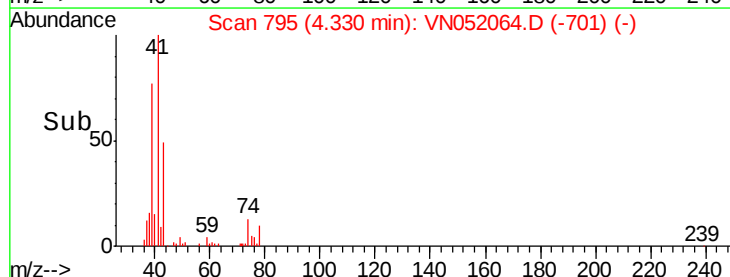
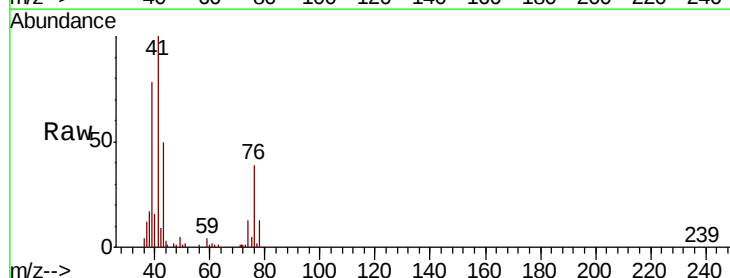
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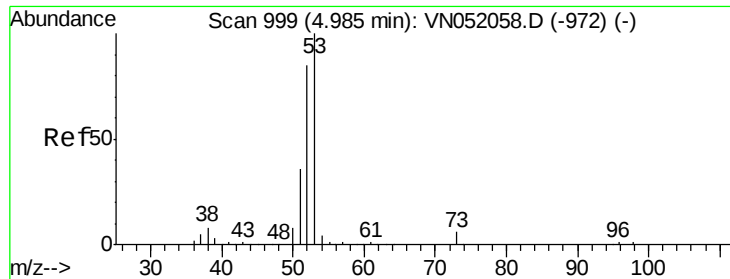
MMDadoda
11/1/2018 11:48:22 AM



#14
Allyl chloride
Concen: 20.418 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.00 min
Lab File: VN052064.D
Acq: 30 Oct 2018 15:10

Tgt Ion	41	39	76	Ratio	Lower	Upper
106620	100	73.8	36.2		58.1	87.1





#15

Acrylonitrile

Concen: 97.970 ug/l

RT: 4.99 min Scan# 1001

Delta R.T. 0.01 min

Lab File: VN052064.D

Acq: 30 Oct 2018 15:10

Instrument :

MSVOA_N

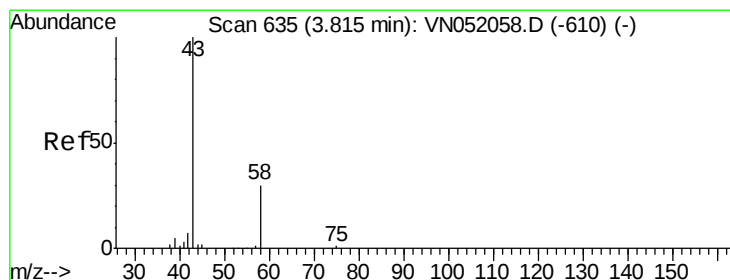
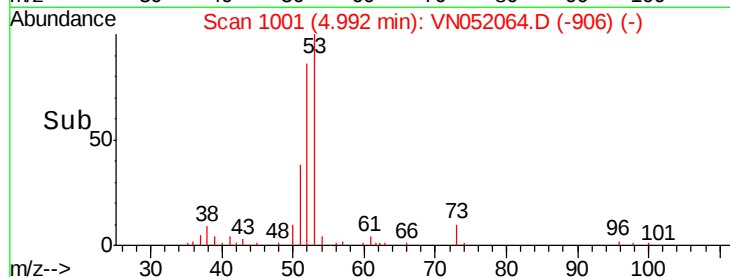
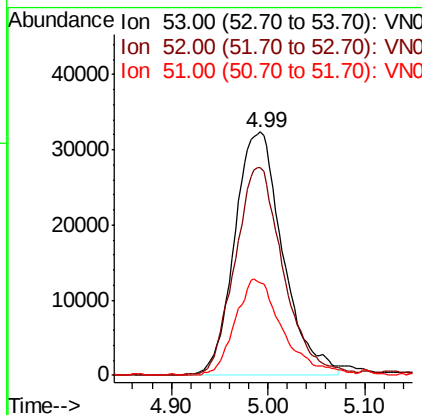
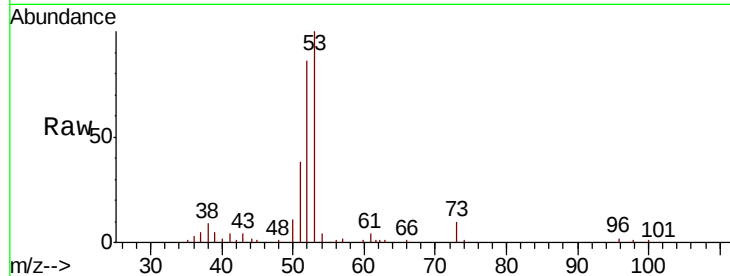
ClientSampleId :

VN1030WBSD01

Tot Ion:	53	Resp:	111943
Ion	Ratio	Lower	Upper
53	100		
52	85.9	66.6	100.0
51	39.2	29.0	43.6

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#16

Acetone

Concen: 92.417 ug/l

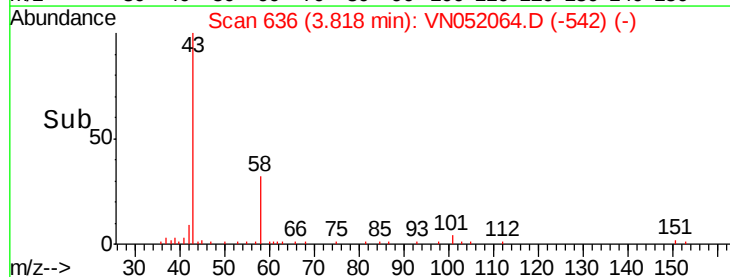
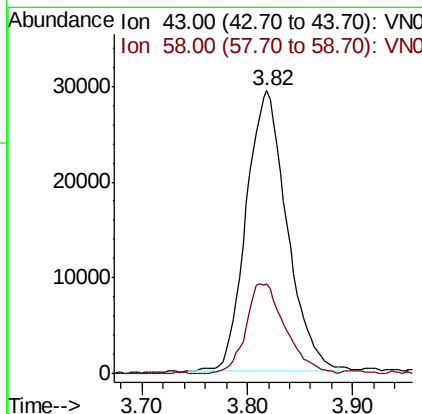
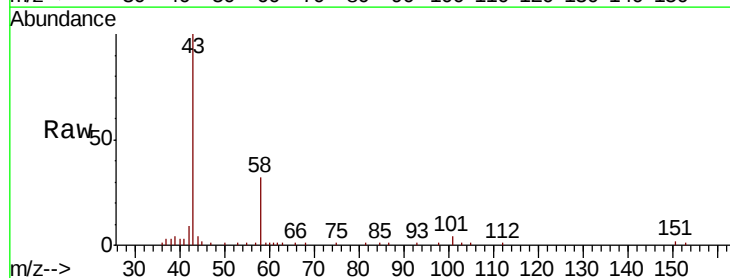
RT: 3.82 min Scan# 636

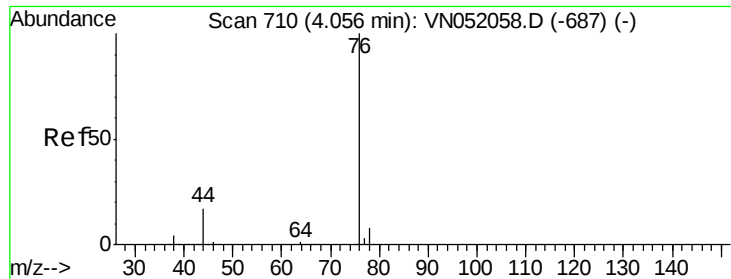
Delta R.T. 0.00 min

Lab File: VN052064.D

Acq: 30 Oct 2018 15:10

Tgt Ion:	43	Resp:	78736
Ion	Ratio	Lower	Upper
43	100		
58	32.1	24.2	36.2





#17

Carbon Disulfide

Concen: 21.486 ug/l

RT: 4.06 min Scan# 711

Delta R.T. 0.00 min

Lab File: VN052064.D

Acq: 30 Oct 2018 15:10

Tot Ion: 76 Resp: 176656

Ion Ratio Lower Upper

76 100

78 9.5 6.8 10.2

Instrument :

MSVOA_N

ClientSampleId :

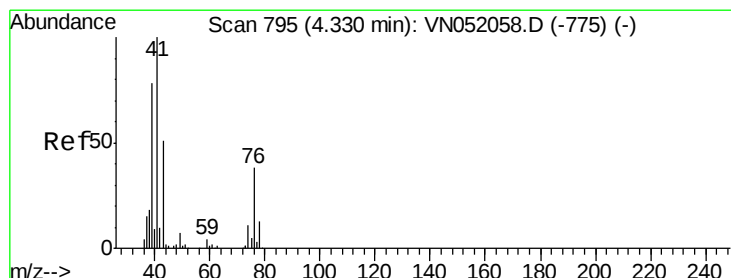
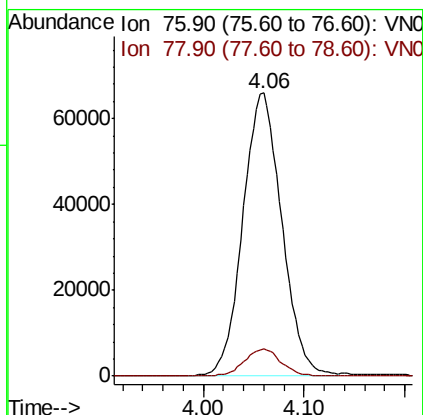
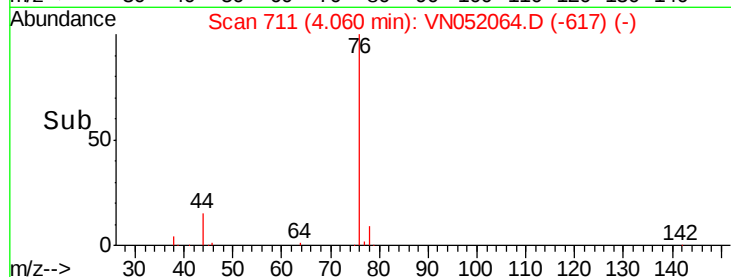
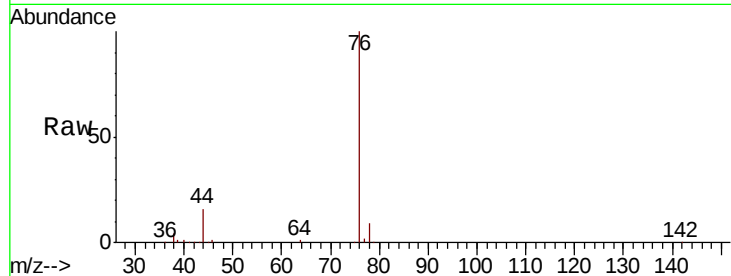
VN1030WBSD01

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#18

Methyl Acetate

Concen: 19.215 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.00 min

Lab File: VN052064.D

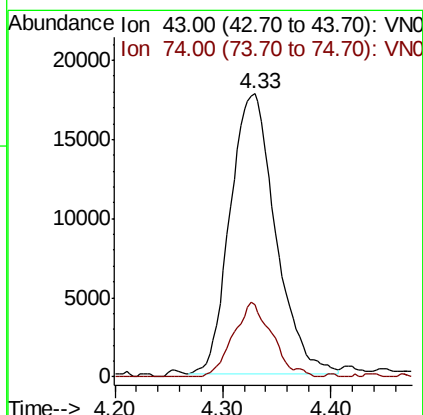
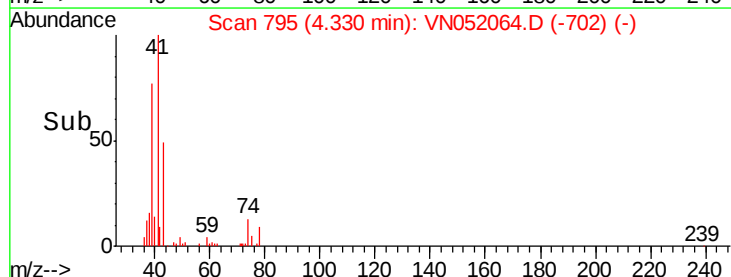
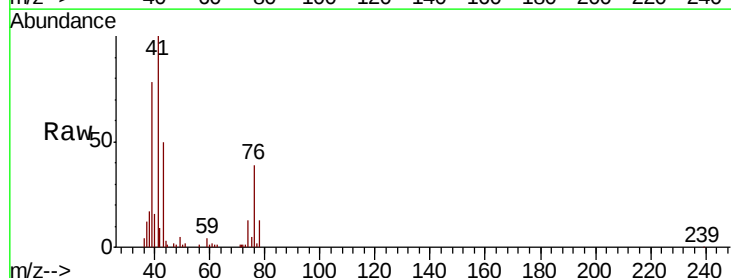
Acq: 30 Oct 2018 15:10

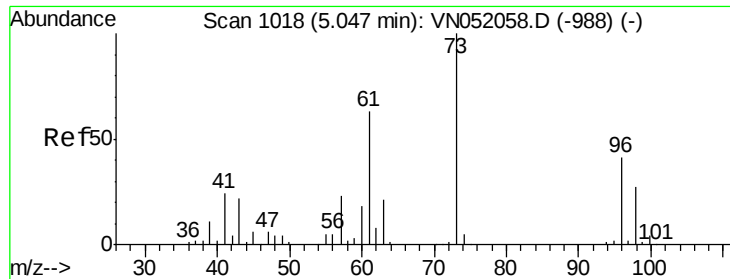
Tgt Ion: 43 Resp: 52115

Ion Ratio Lower Upper

43 100

74 22.7 17.9 26.9





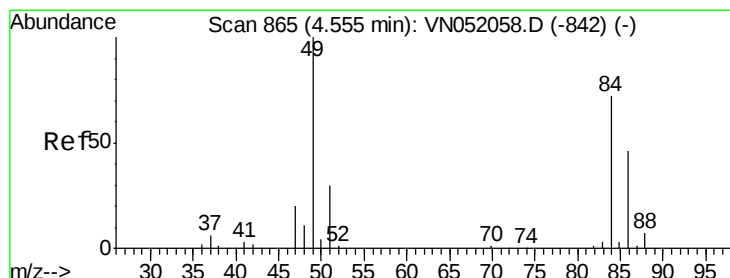
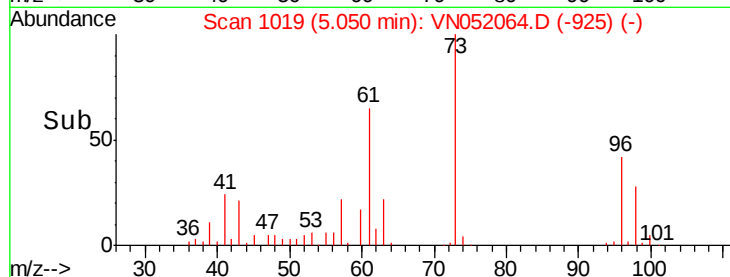
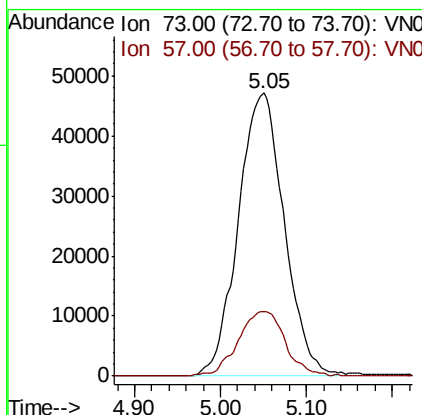
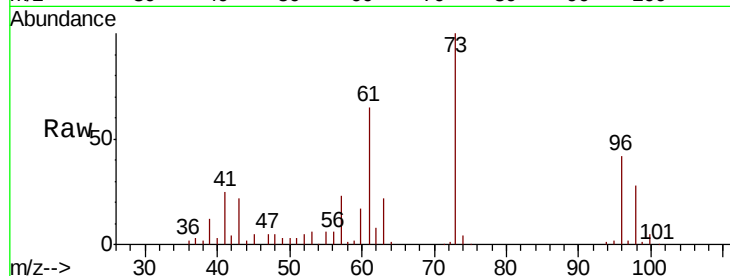
#19
Methvl tert-butvl Ether
Concen: 20.418 ug/l
RT: 5.05 min Scan# 1019
Delta R.T. 0.00 min
Lab File: VN052064.D
Acq: 30 Oct 2018 15:10

Instrument :
MSVOA_N
ClientSampleId :
VN1030WBSD01

Tot Ion: 73 Resp: 174992
Ion Ratio Lower Upper
73 100
57 23.0 18.7 28.1

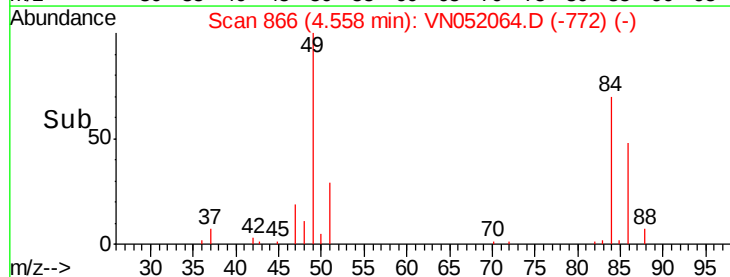
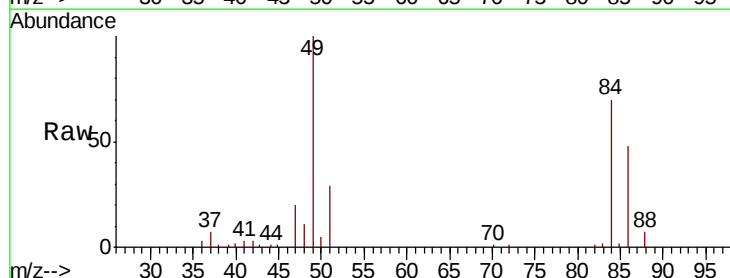
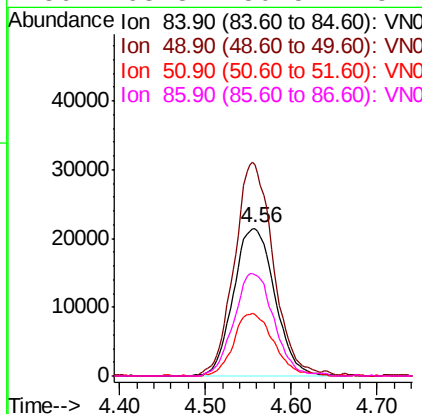
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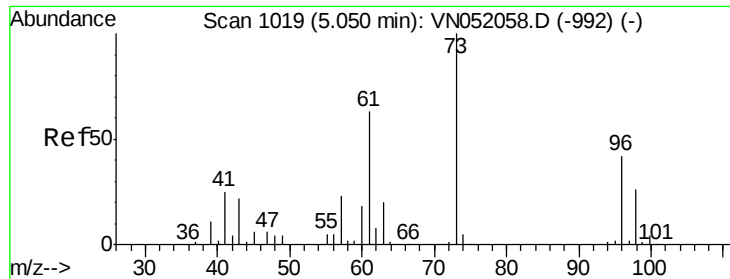
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#20
Methylene Chloride
Concen: 22.067 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN052064.D
Acq: 30 Oct 2018 15:10

Tgt Ion: 84 Resp: 71635
Ion Ratio Lower Upper
84 100
49 143.3 110.6 165.8
51 41.5 33.7 50.5
86 68.8 50.5 75.7





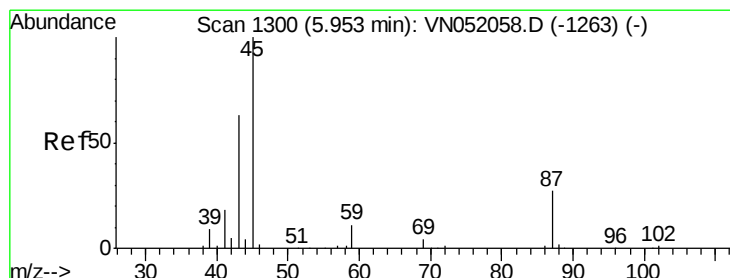
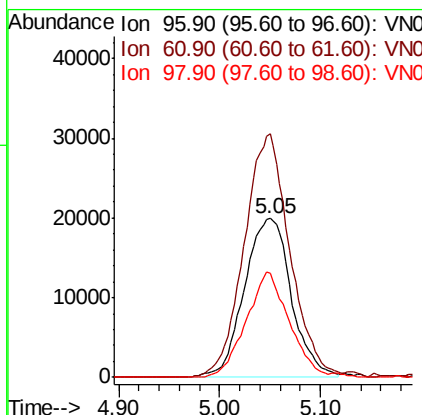
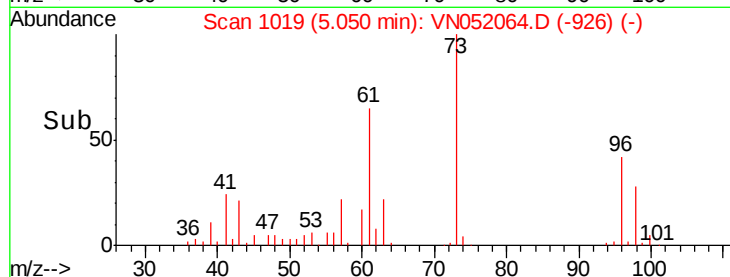
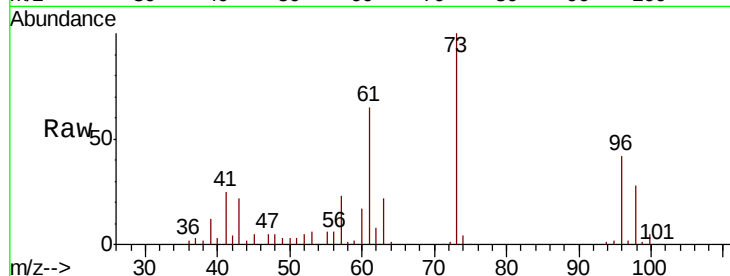
#21
trans-1,2-Dichloroethene
Concen: 21.667 ug/l
RT: 5.05 min Scan# 1019
Delta R.T. 0.00 min
Lab File: VN052064.D
Acq: 30 Oct 2018 15:10

Instrument :
MSVOA_N
ClientSampleId :
VN1030WBSD01

Tot Ion	Ratio	Lower	Upper
96	100		
61	153.5	118.6	178.0
98	65.7	49.7	74.5

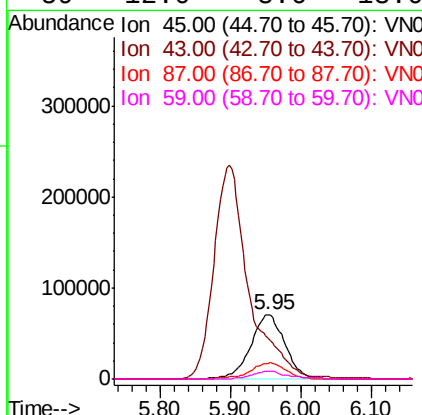
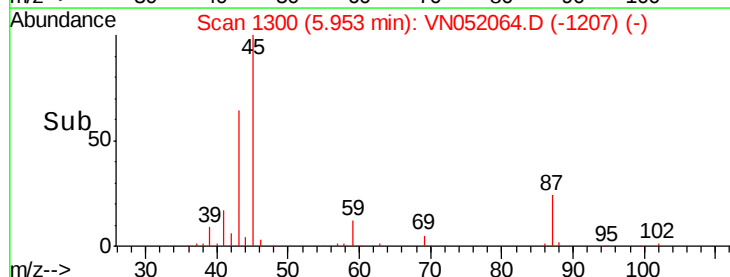
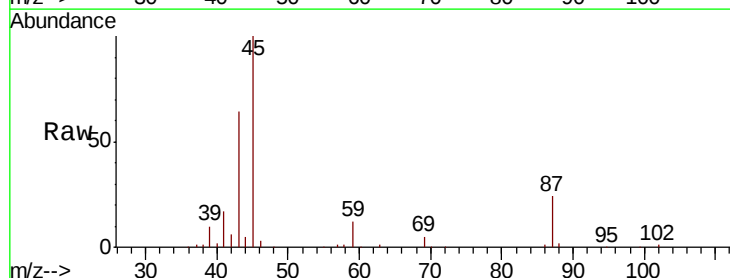
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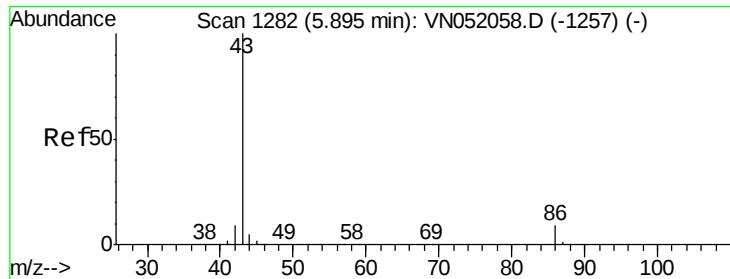
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#22
Diisopropyl ether
Concen: 21.089 ug/l
RT: 5.95 min Scan# 1300
Delta R.T. 0.00 min
Lab File: VN052064.D
Acq: 30 Oct 2018 15:10

Tgt Ion	Ratio	Lower	Upper
45	100		
43	61.9	50.5	75.7
87	24.3	21.5	32.3
59	12.0	8.6	13.0





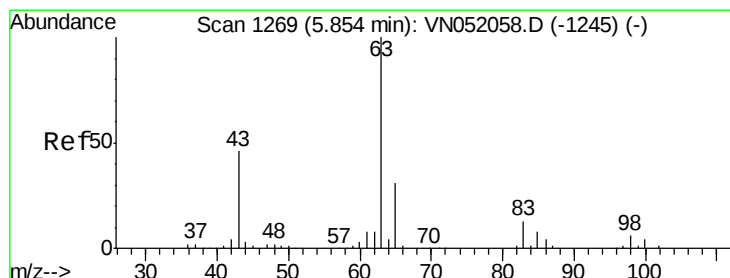
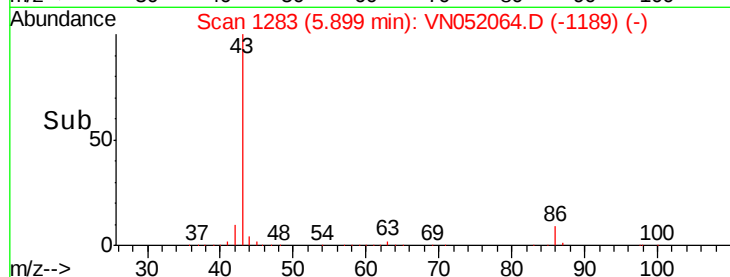
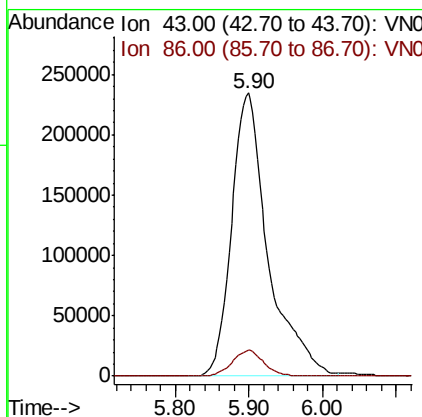
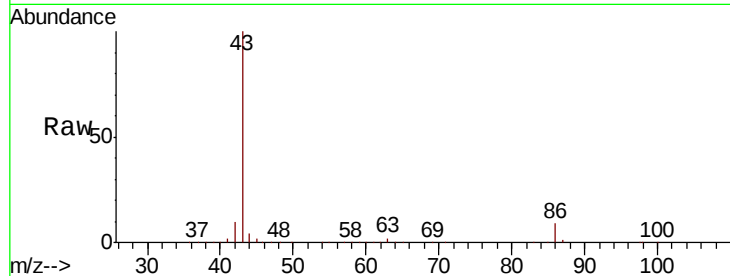
#23
 Vinyl Acetate
 Concen: 103.363 ug/l
 RT: 5.90 min Scan# 1283
 Delta R.T. 0.00 min
 Lab File: VN052064.D
 Acq: 30 Oct 2018 15:10

Instrument :
 MSVOA_N
 ClientSampleID :
 VN1030WBSD01

Tot Ion	43	Resp	808328
Ion Ratio	100	Lower	Upper
43	100		
86	9.2	7.3	10.9

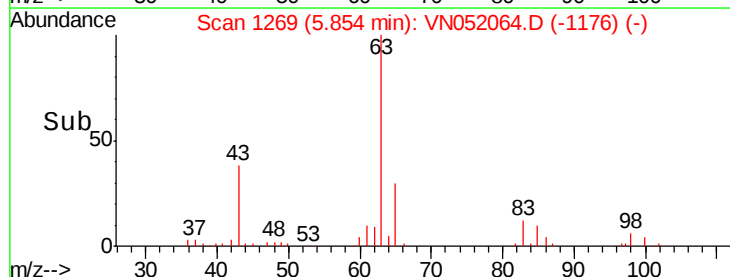
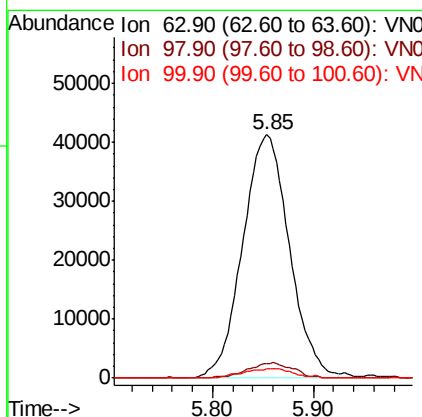
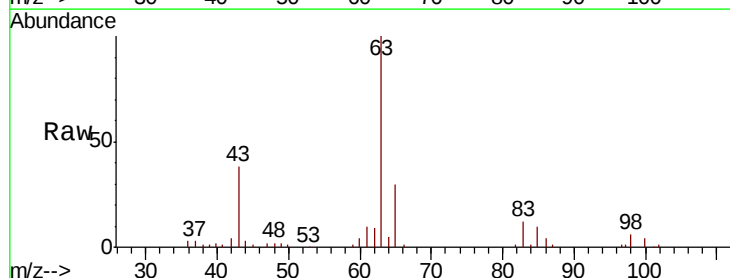
Manual Integrations
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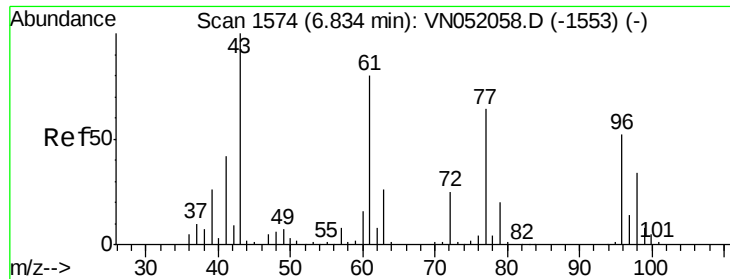
MMDadoda
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#24
 1,1-Dichloroethane
 Concen: 21.015 ug/l
 RT: 5.85 min Scan# 1269
 Delta R.T. 0.00 min
 Lab File: VN052064.D
 Acq: 30 Oct 2018 15:10

Tgt Ion	63	Resp	132634
Ion Ratio	100	Lower	Upper
63	100		
98	6.2	2.8	8.4
100	3.8	2.0	6.0





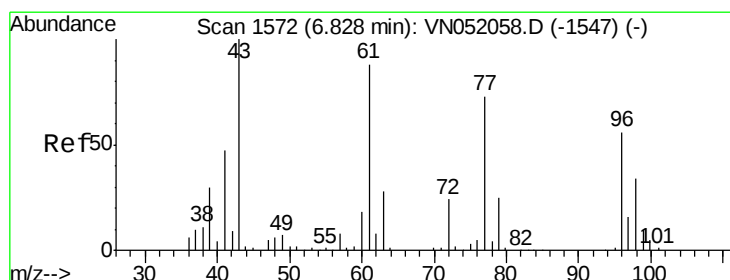
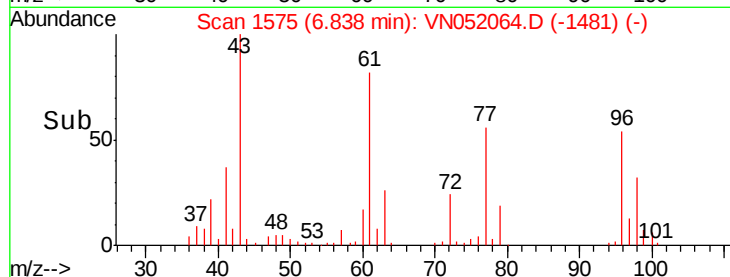
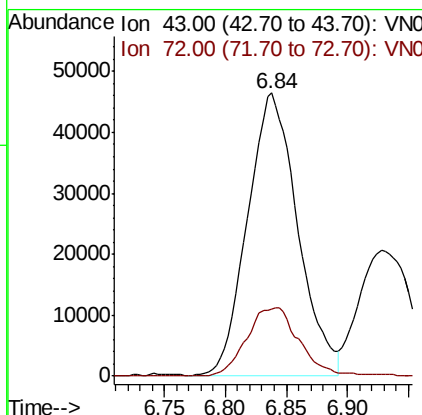
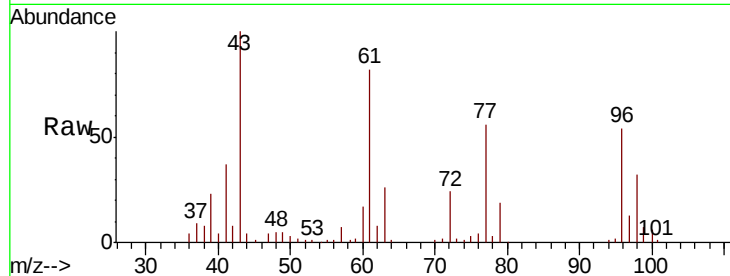
#25
2-Butanone
Concen: 99.489 ug/l
RT: 6.84 min Scan# 1575
Delta R.T. 0.00 min
Lab File: VN052064.D
Acq: 30 Oct 2018 15:10

Instrument :
MSVOA_N
ClientSampled :
VN1030WBSD01

Tot Ion: 43 Resp: 132945
Ion Ratio Lower Upper
43 100
72 23.8 20.2 30.2

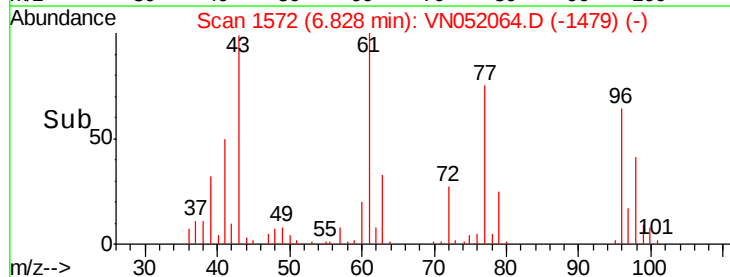
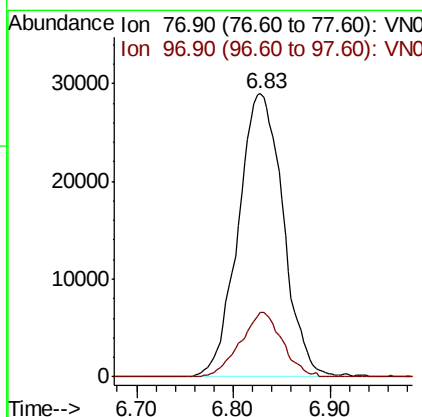
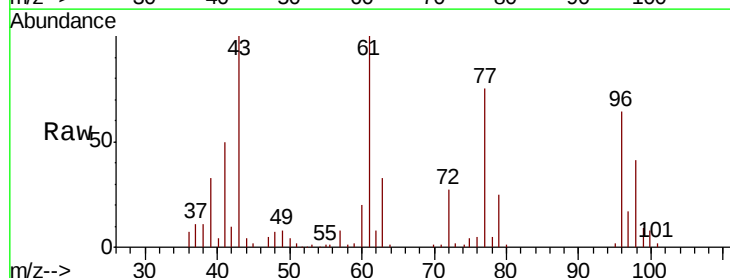
Manual Integrations
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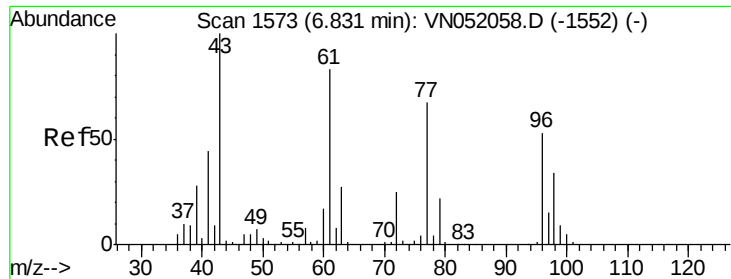
MMDadoda
11/1/2018 11:48:22 AM



#26
2,2-Dichloropropane
Concen: 18.583 ug/l
RT: 6.83 min Scan# 1572
Delta R.T. 0.00 min
Lab File: VN052064.D
Acq: 30 Oct 2018 15:10

Tgt Ion: 77 Resp: 93142
Ion Ratio Lower Upper
77 100
97 21.4 10.5 31.5





#27

cis-1,2-Dichloroethene

Concen: 21.076 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. 0.00 min

Lab File: VN052064.D

Acq: 30 Oct 2018 15:10

Instrument :

MSVOA_N

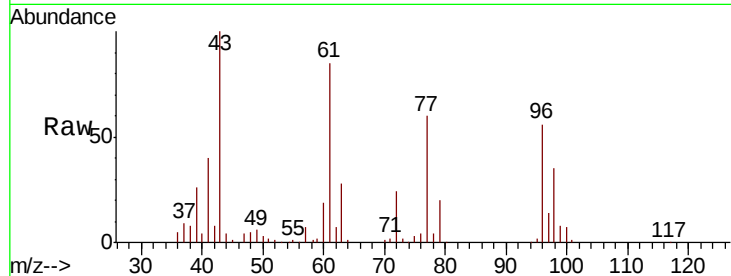
ClientSampleId :

VN1030WBSD01

Tot Ion:	96	Resp:	74887
Ion	Ratio	Lower	Upper
96	100		
61	157.0	0.0	312.8
98	63.0	0.0	127.0

Manual Integrations
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11/1/2018 11:48:22 AM

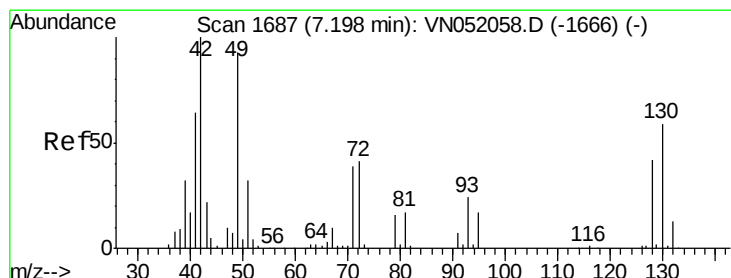
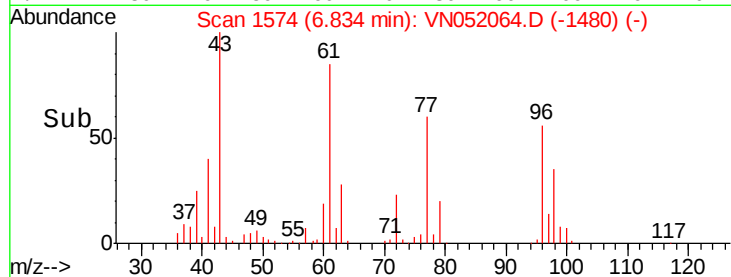
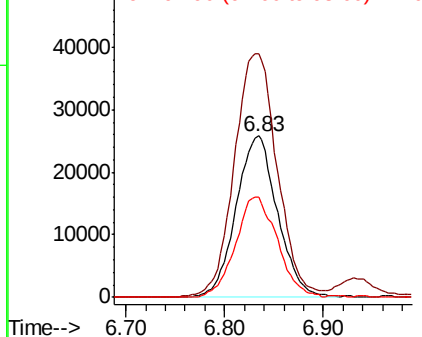


Abundance

Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#28

Bromochloromethane

Concen: 18.988 ug/l

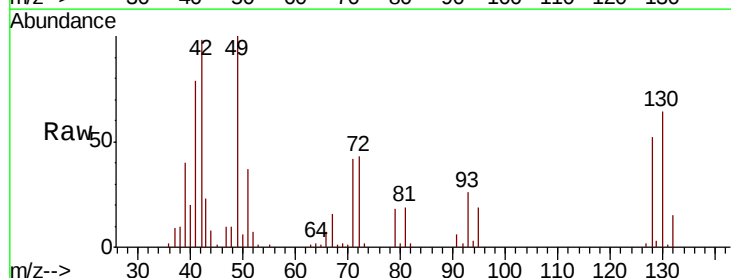
RT: 7.20 min Scan# 1687

Delta R.T. 0.00 min

Lab File: VN052064.D

Acq: 30 Oct 2018 15:10

Tgt Ion:	49	Resp:	59390
Ion	Ratio	Lower	Upper
49	100		
129	1.4	0.0	2.4
130	66.6	50.8	76.2

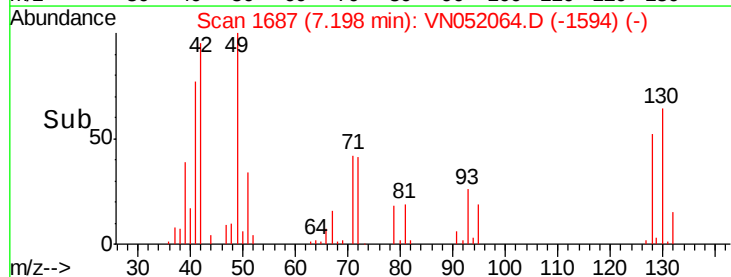
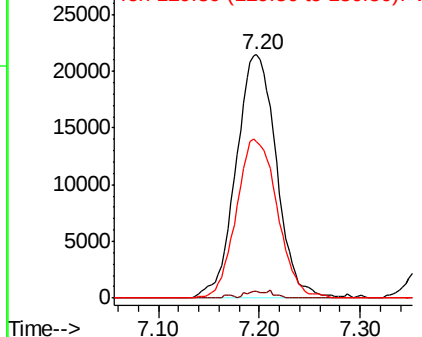


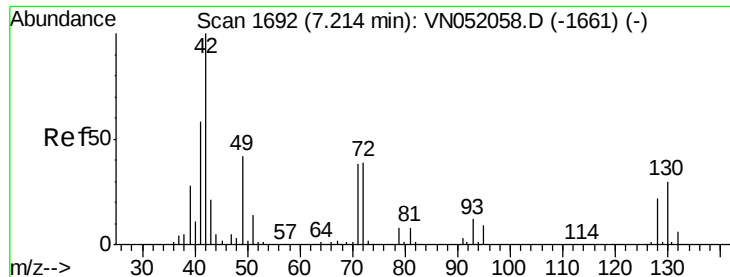
Abundance

Ion 48.90 (48.60 to 49.60): VN0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V





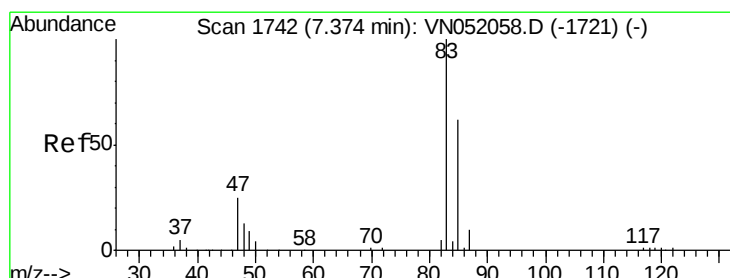
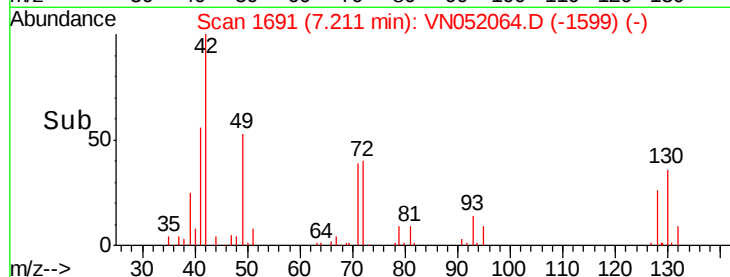
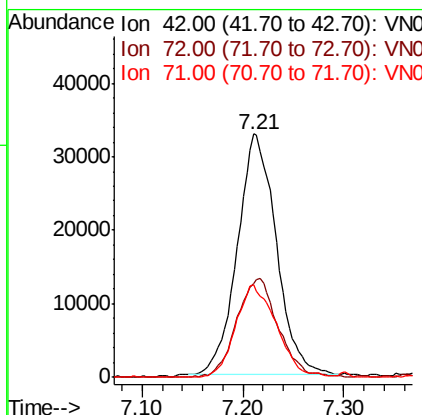
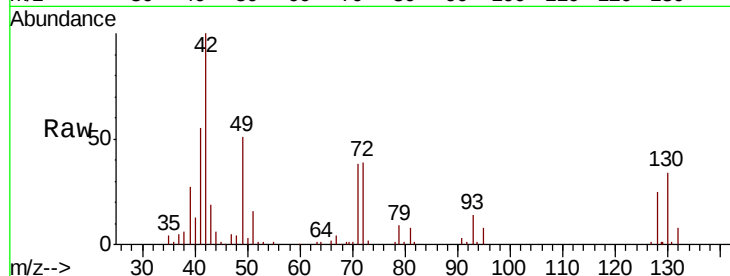
#29
Tetrahydrofuran
Concen: 98.420 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. -0.00 min
Lab File: VN052064.D
Acq: 30 Oct 2018 15:10

Instrument :
MSVOA_N
ClientSampleId :
VN1030WBSD01

Tot Ion	Ratio	Lower	Upper
42	100		
72	44.0	32.5	48.7
71	40.5	30.6	46.0

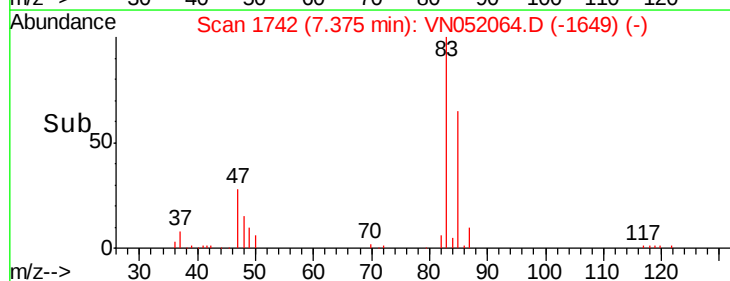
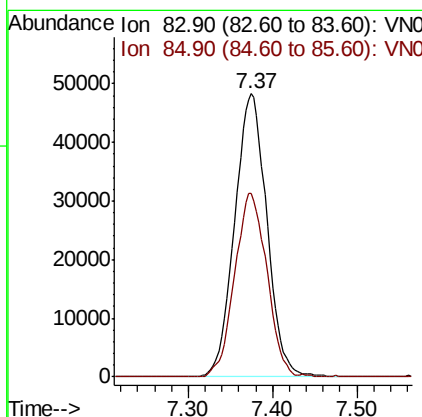
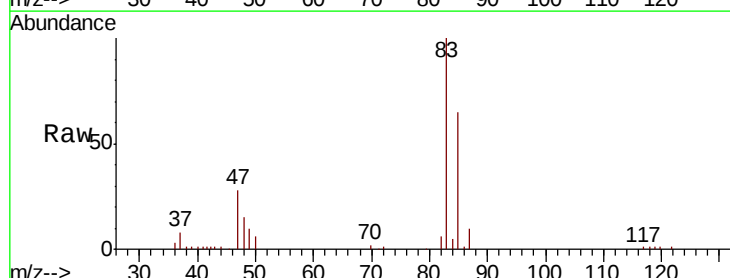
Manual Integrations
APPROVED

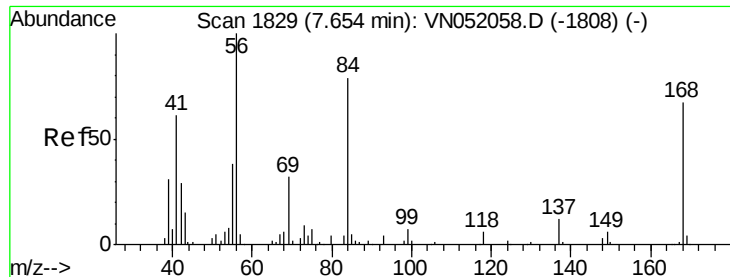
MMDadoda
11/1/2018 11:48:22 AM



#30
Chloroform
Concen: 20.388 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN052064.D
Acq: 30 Oct 2018 15:10

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.8	49.6	74.4





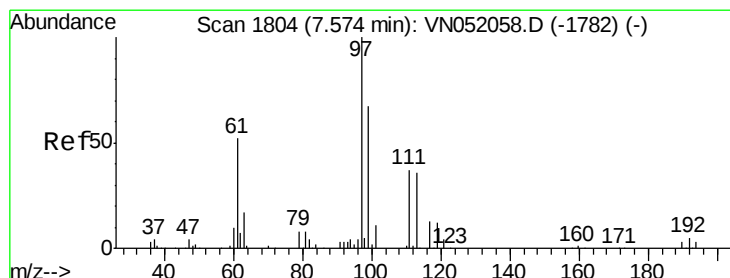
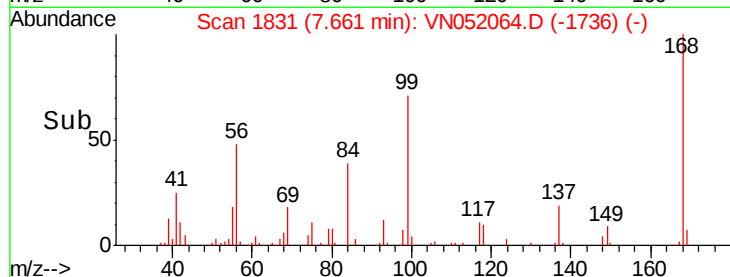
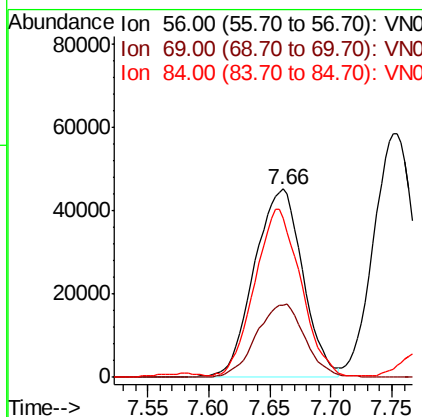
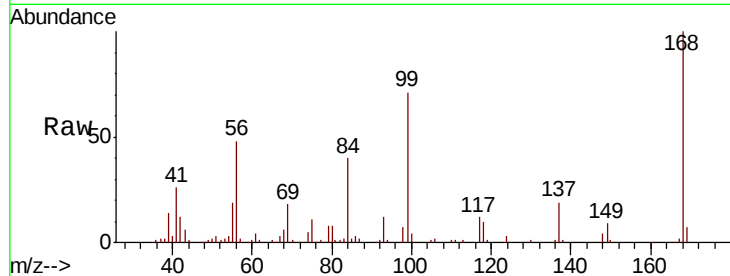
#31
Cyclohexane
Concen: 19.624 ug/l
RT: 7.66 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN052064.D
Acq: 30 Oct 2018 15:10

Instrument :
MSVOA_N
ClientSampled :
VN1030WBSD01

Tot Ion	Ratio	Lower	Upper
56	100		
69	38.6	25.8	38.6
84	82.3	63.5	95.3

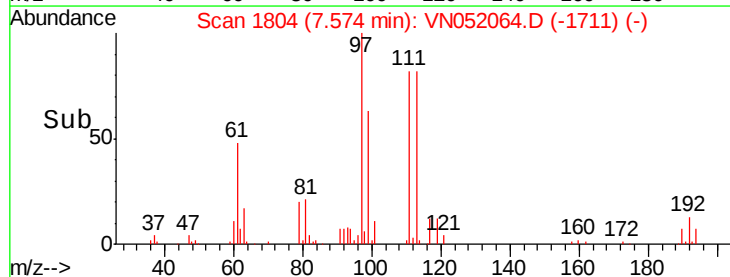
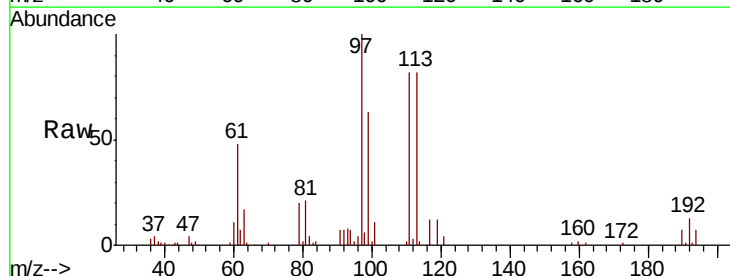
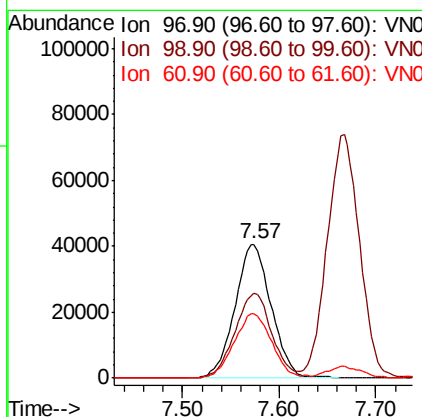
Manual Integrations
APPROVED

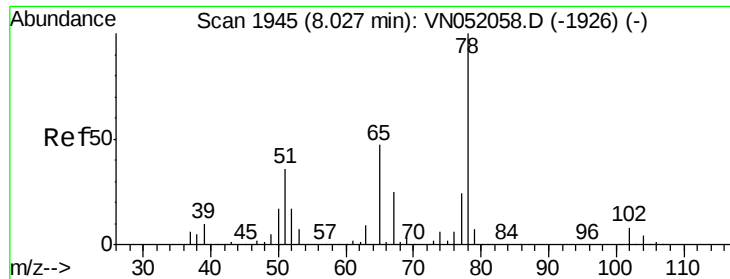
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#32
1,1,1-Trichloroethane
Concen: 20.868 ug/l
RT: 7.57 min Scan# 1804
Delta R.T. 0.00 min
Lab File: VN052064.D
Acq: 30 Oct 2018 15:10

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.1	51.4	77.2
61	50.2	40.3	60.5





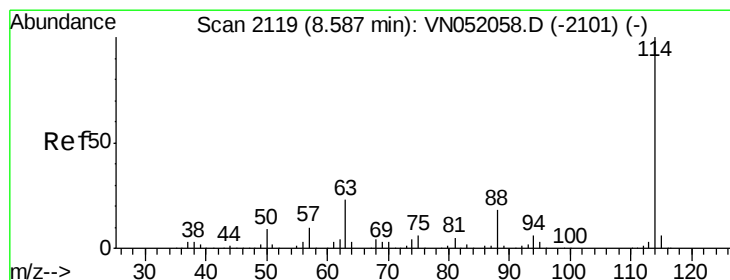
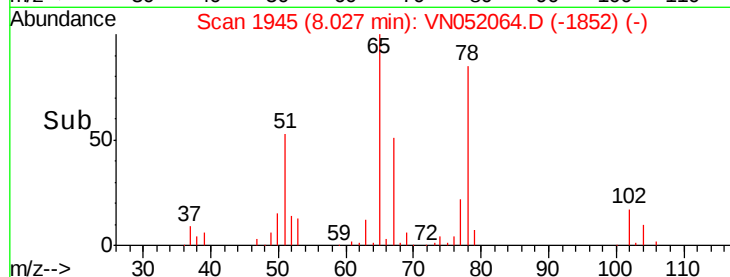
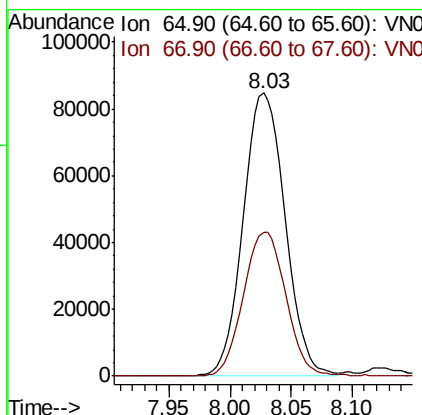
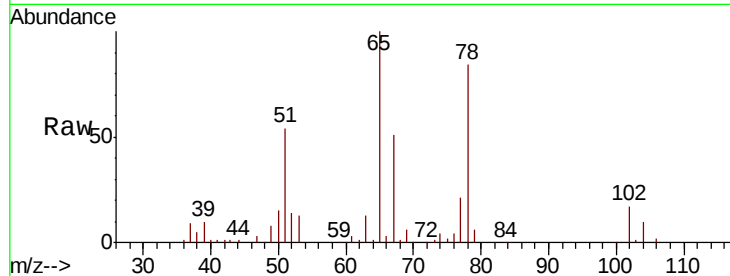
#33
 1,2-Dichloroethane-d4
 Concen: 20.868 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN052064.D
 Acq: 30 Oct 2018 15:10

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1030WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	201866		
67	51.5	0.0	105.2	

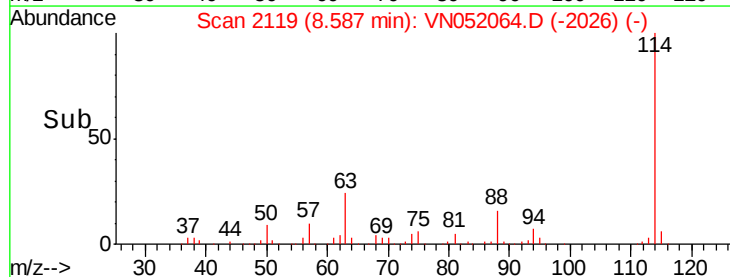
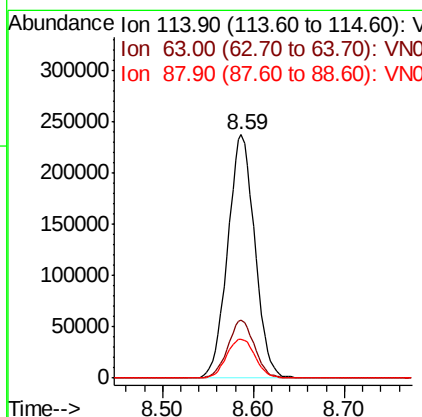
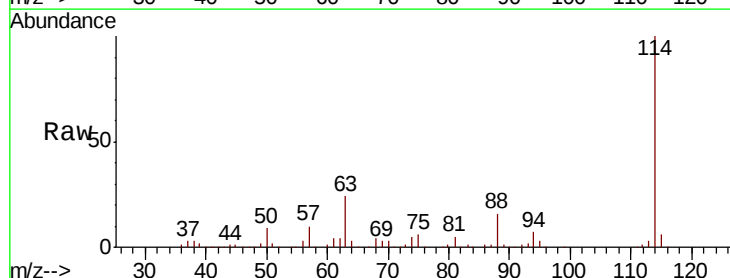
Manual Integrations
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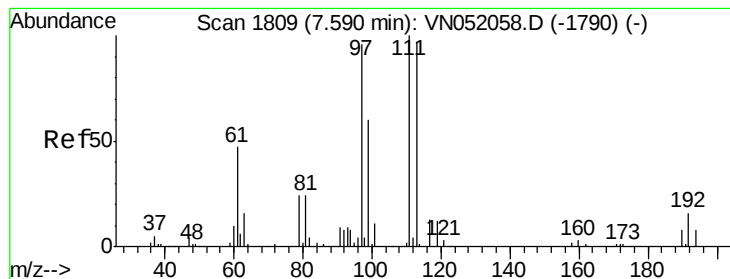
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 11/1/2018 11:48:22 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN052064.D
 Acq: 30 Oct 2018 15:10

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	489571		
63	23.7	0.0	46.0	
88	15.8	0.0	35.4	





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN052064.D

Acq: 30 Oct 2018 15:10

Instrument :

MSVOA_N

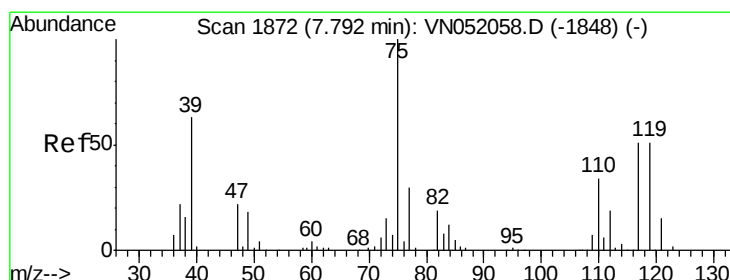
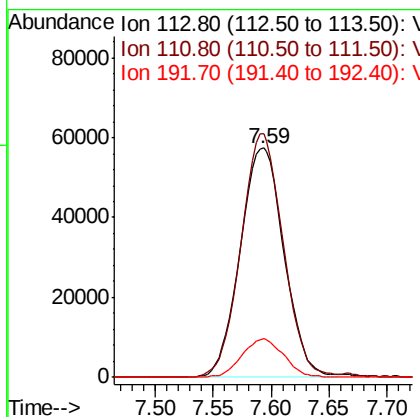
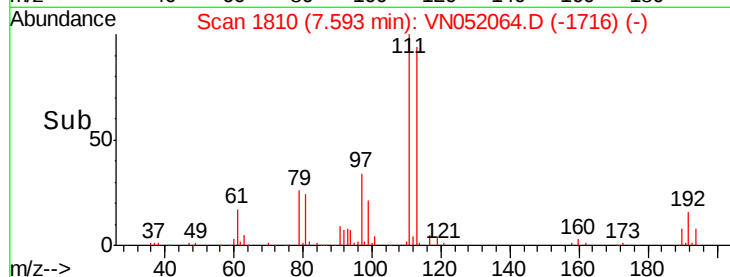
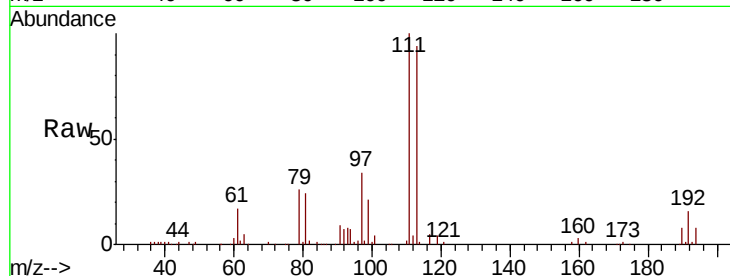
ClientSampleId :

VN1030WBSD01

Tot Ion:	113	Resp:	151087
Ion Ratio	Lower	Upper	
113	100		
111	102.3	83.1	124.7
192	16.1	12.7	19.1

Manual Integrations
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#36

1,1-Dichloropropene

Concen: 19.913 ug/l

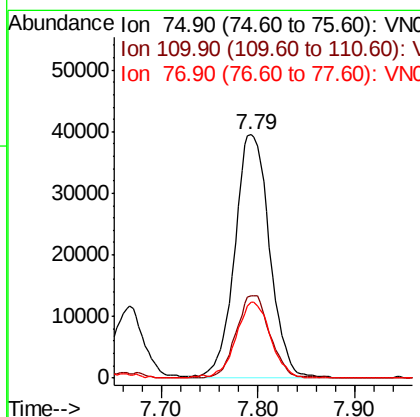
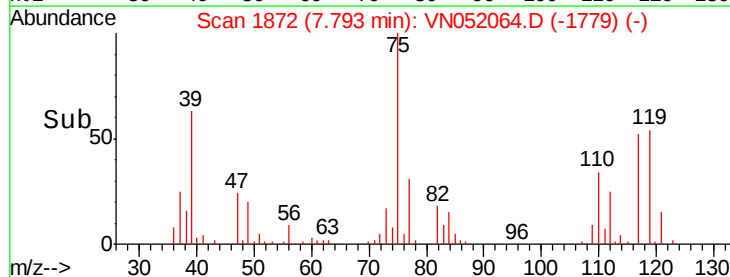
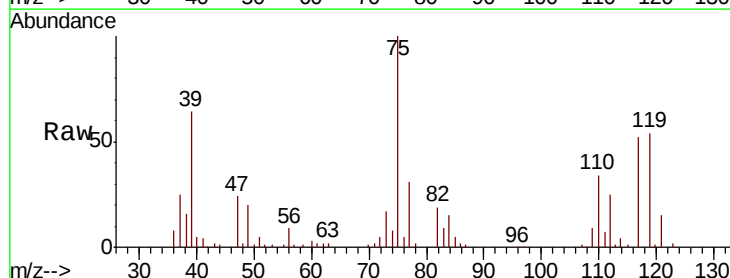
RT: 7.79 min Scan# 1872

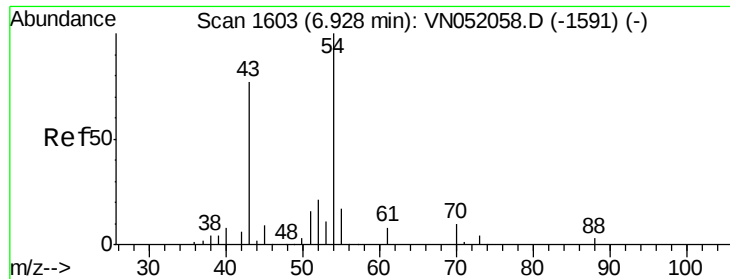
Delta R.T. 0.00 min

Lab File: VN052064.D

Acq: 30 Oct 2018 15:10

Tgt Ion:	75	Resp:	99128
Ion Ratio	Lower	Upper	
75	100		
110	32.7	16.0	48.0
77	30.5	24.5	36.7





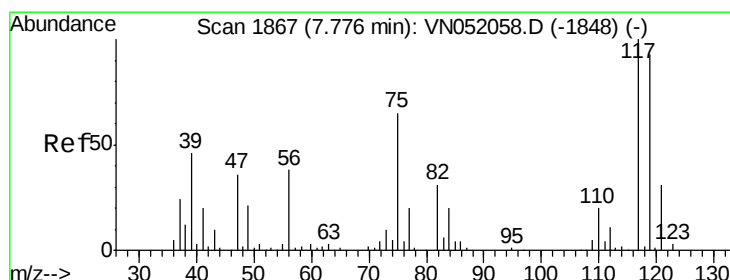
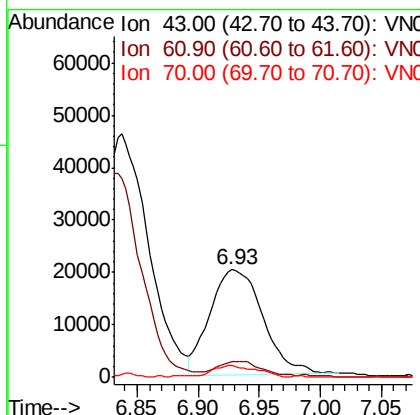
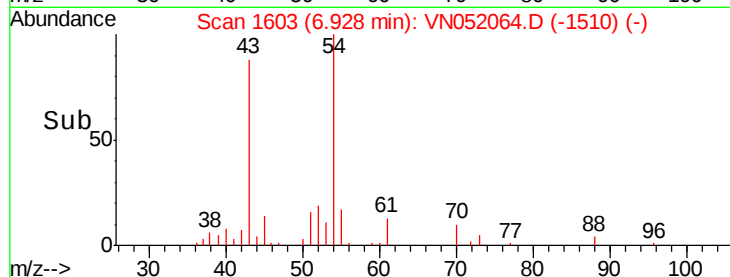
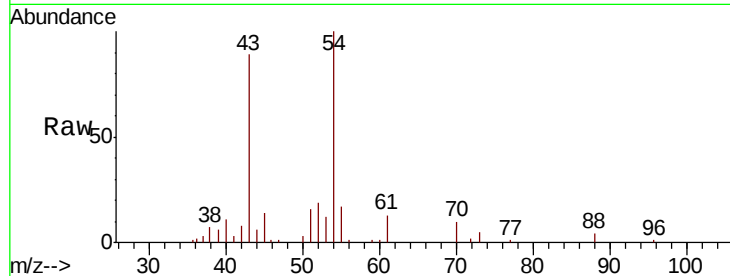
#37
Ethyl Acetate
Concen: 18.169 ug/l
RT: 6.93 min Scan# 1603
Delta R.T. 0.00 min
Lab File: VN052064.D
Acq: 30 Oct 2018 15:10

Instrument :
MSVOA_N
ClientSampleId :
VN1030WBSD01

Tot Ion	43	Resp	60539
Ion Ratio	Lower	Upper	
43	100		
61	10.7	10.9	16.3#
70	10.2	8.6	12.8

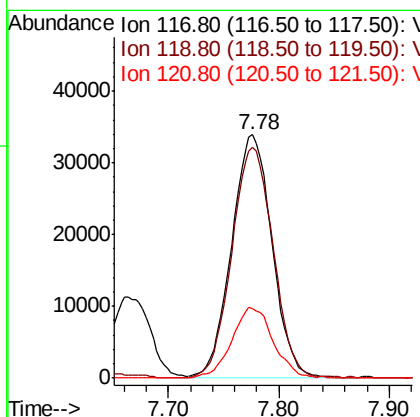
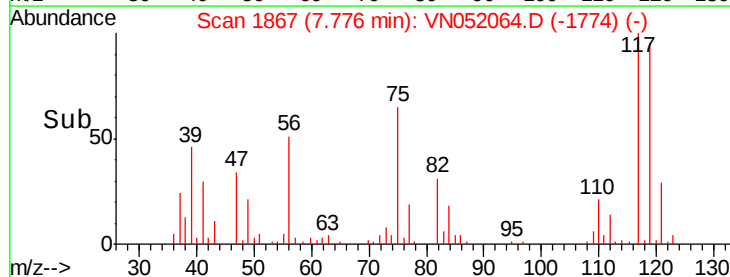
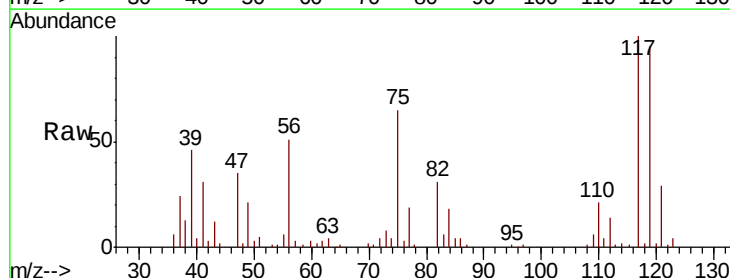
Manual Integrations
APPROVED

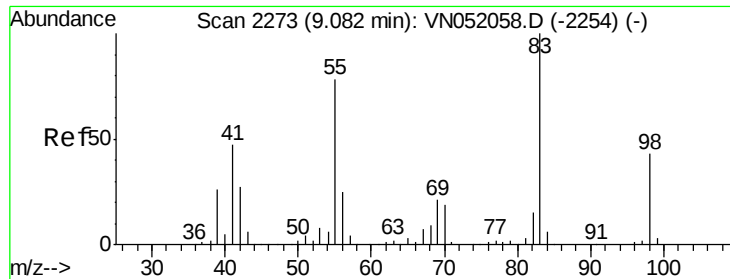
MMDadoda
11/1/2018 11:48:22 AM



#38
Carbon Tetrachloride
Concen: 20.112 ug/l
RT: 7.78 min Scan# 1867
Delta R.T. 0.00 min
Lab File: VN052064.D
Acq: 30 Oct 2018 15:10

Tgt Ion	117	Resp	86327
Ion Ratio	Lower	Upper	
117	100		
119	95.0	74.8	112.2
121	28.6	25.1	37.7





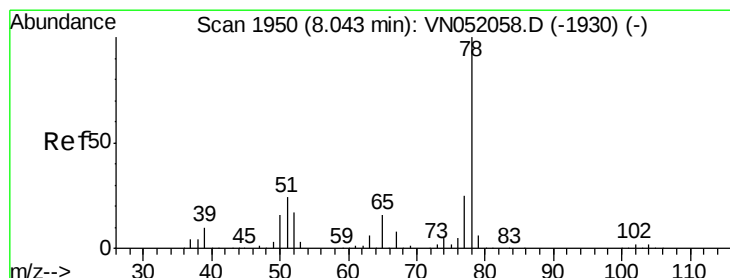
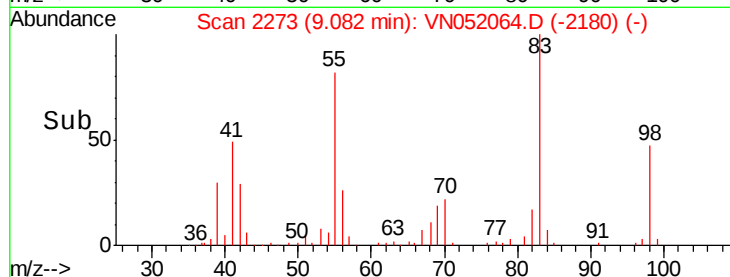
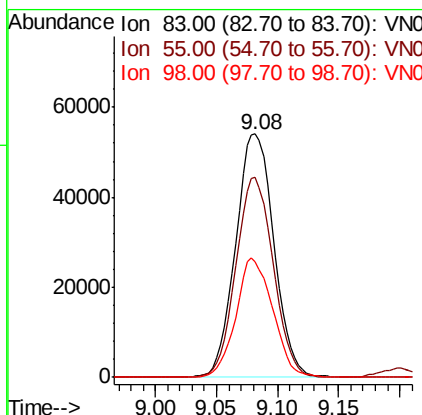
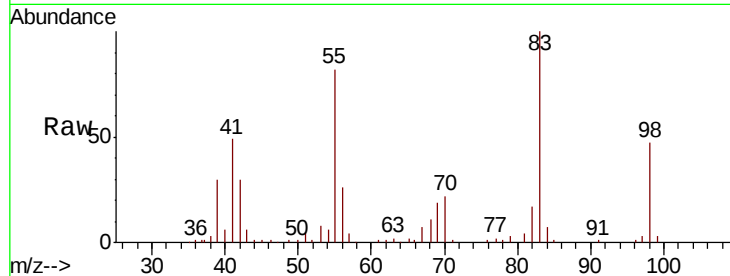
#39
Methvlcvclohexane
Concen: 19.820 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN052064.D
Acq: 30 Oct 2018 15:10

Instrument :
MSVOA_N
ClientSampled :
VN1030WBSD01

Tot Ion	83	Resp	117085
Ion Ratio	100	Lower	Upper
83	100		
55	82.2	62.0	93.0
98	47.5	34.7	52.1

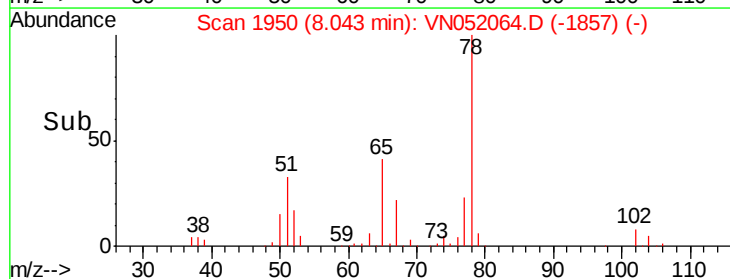
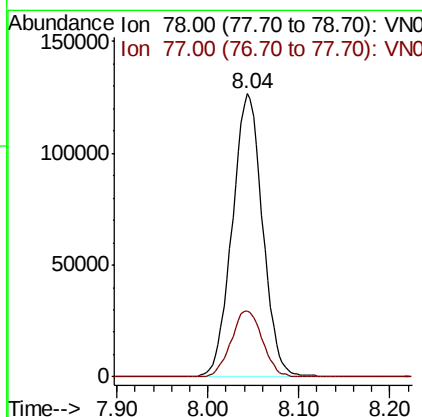
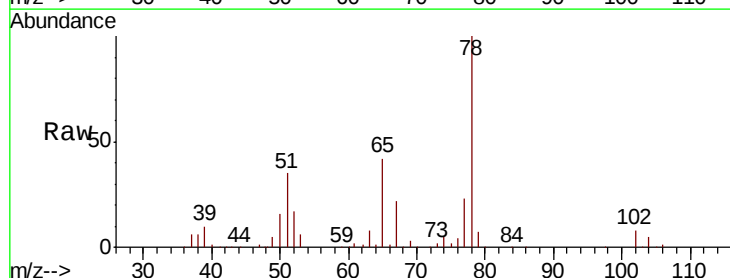
Manual Integrations
APPROVED

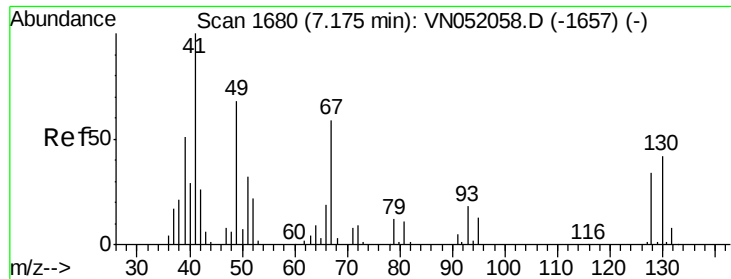
MMDadoda
11/1/2018 11:48:22 AM



#40
Benzene
Concen: 20.360 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN052064.D
Acq: 30 Oct 2018 15:10

Tgt Ion	78	Resp	293164
Ion Ratio	100	Lower	Upper
78	100		
77	23.4	19.8	29.6





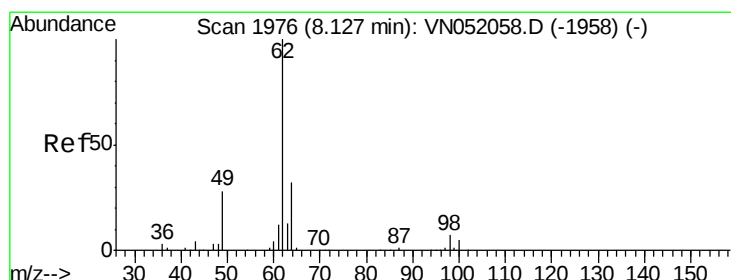
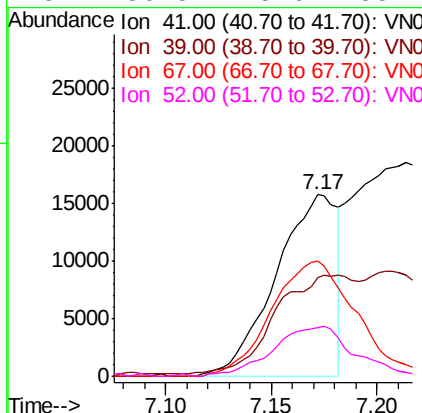
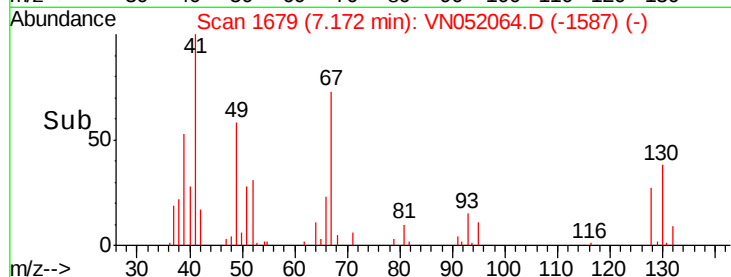
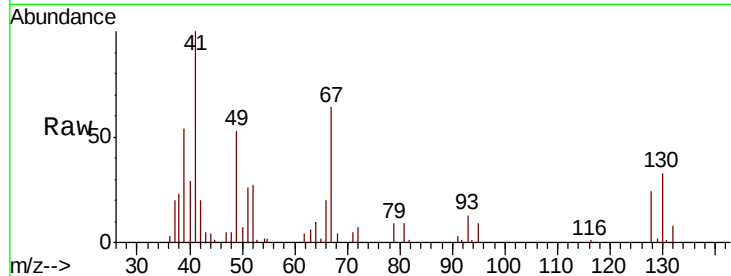
#41
Methacrylonitrile
Concen: 18.624 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. -0.00 min
Lab File: VN052064.D
Acq: 30 Oct 2018 15:10

Instrument :
MSVOA_N
ClientSampleId :
VN1030WBSD01

Tot Ion	Ratio	Lower	Upper
41	100		
39	70.3	33.2	49.8#
67	87.2	63.5	95.3
52	36.5	25.6	38.4

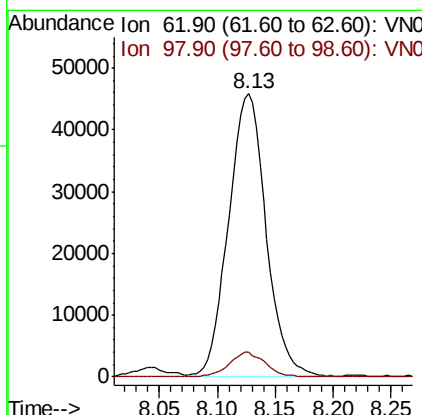
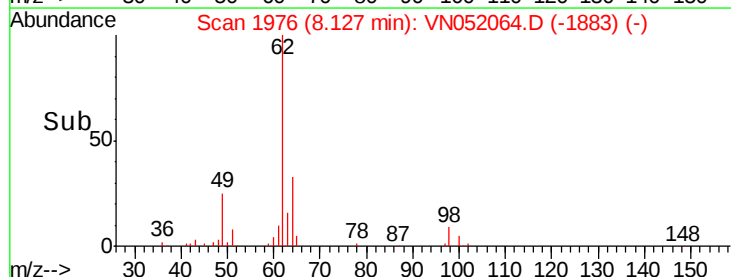
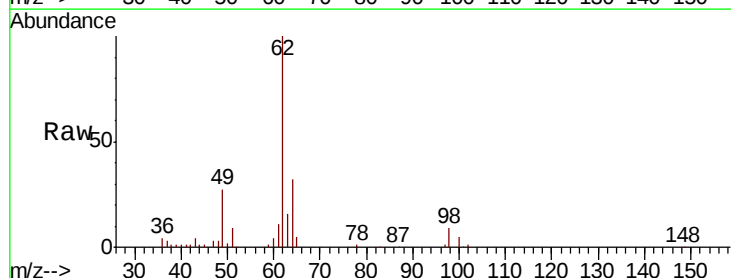
Manual Integrations
APPROVED

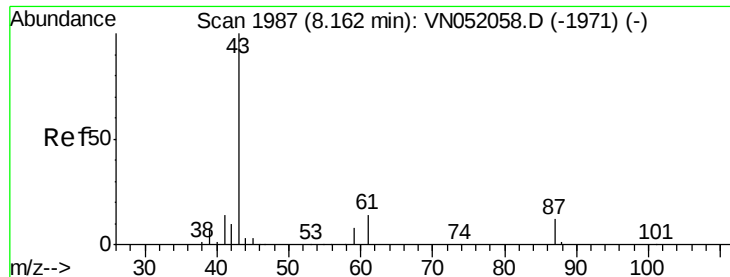
MMDadoda
11/1/2018 11:48:22 AM



#42
1,2-Dichloroethane
Concen: 19.409 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN052064.D
Acq: 30 Oct 2018 15:10

Tgt Ion	Ratio	Lower	Upper
62	100		
98	8.3	0.0	15.2





#43

Isopropyl Acetate

Concen: 19.523 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN052064.D

Acq: 30 Oct 2018 15:10

Instrument :

MSVOA_N

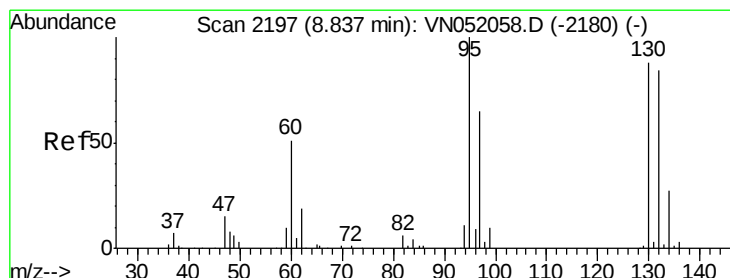
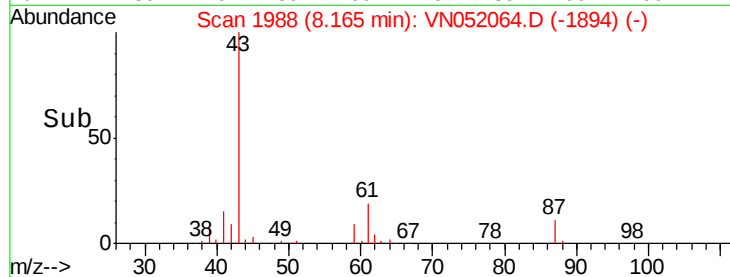
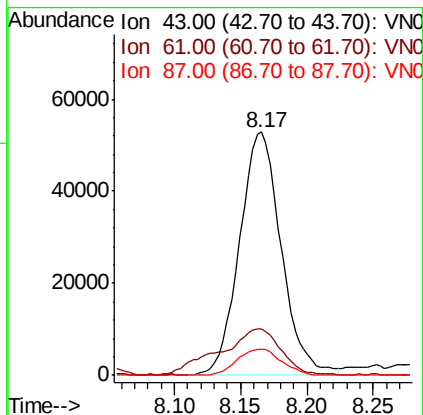
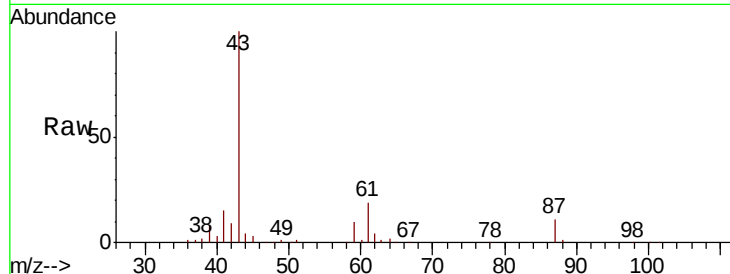
ClientSampleId :

VN1030WBSD01

Tot Ion:	43	Resp:	115694
Ion	Ratio	Lower	Upper
43	100		
61	28.4	15.4	23.0#
87	11.5	9.8	14.8

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#44

Trichloroethene

Concen: 21.070 ug/l

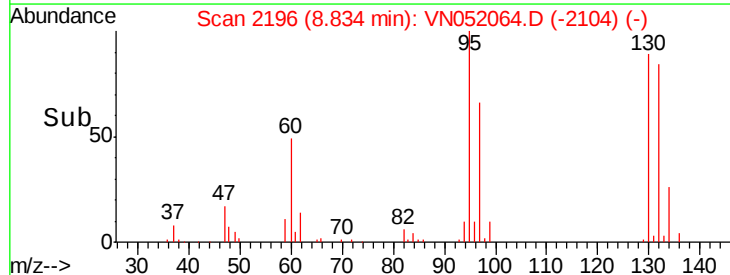
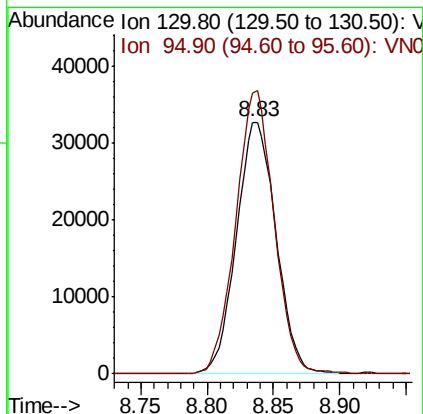
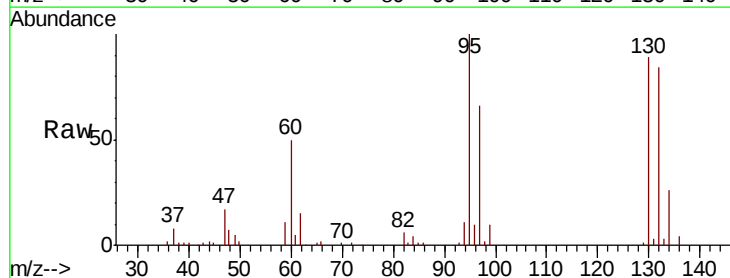
RT: 8.83 min Scan# 2196

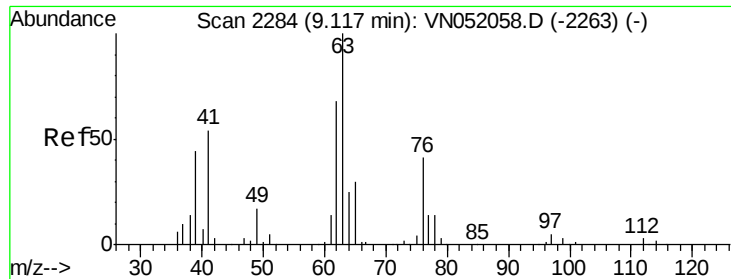
Delta R.T. -0.00 min

Lab File: VN052064.D

Acq: 30 Oct 2018 15:10

Tgt Ion:	130	Resp:	67848
Ion	Ratio	Lower	Upper
130	100		
95	111.9	0.0	228.4





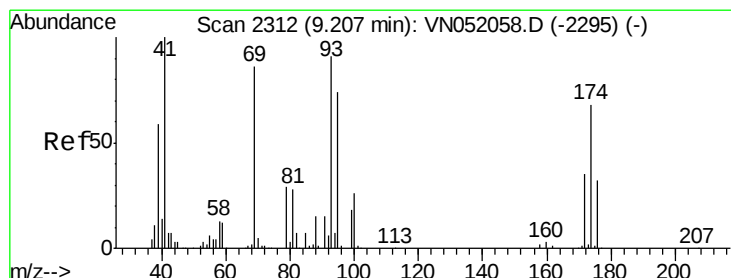
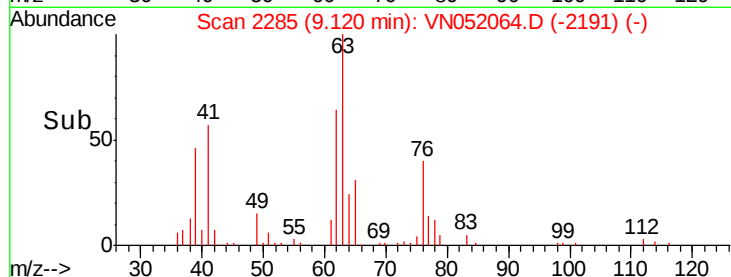
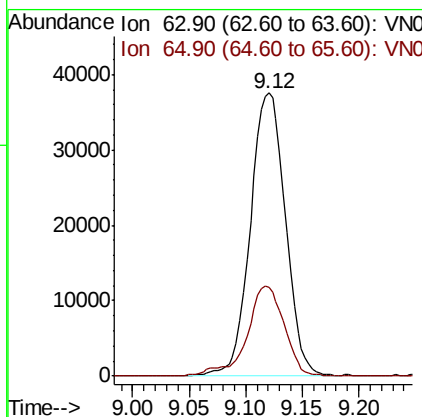
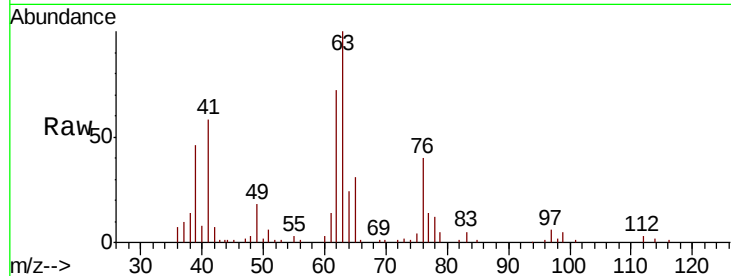
#45
 1,2-Dichloropropane
 Concen: 19.745 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN052064.D
 Acq: 30 Oct 2018 15:10

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1030WBSD01

Tot Ion: 63 Resp: 80990
 Ion Ratio Lower Upper
 63 100
 65 31.5 24.5 36.7

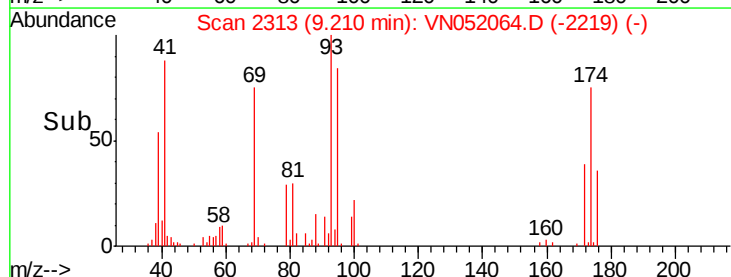
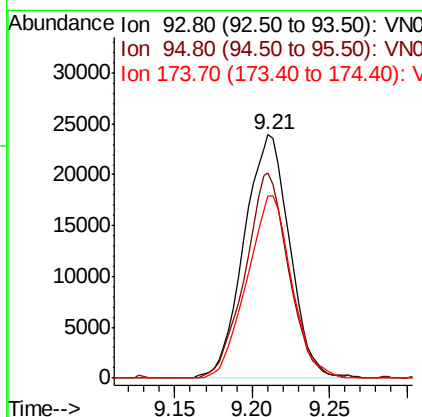
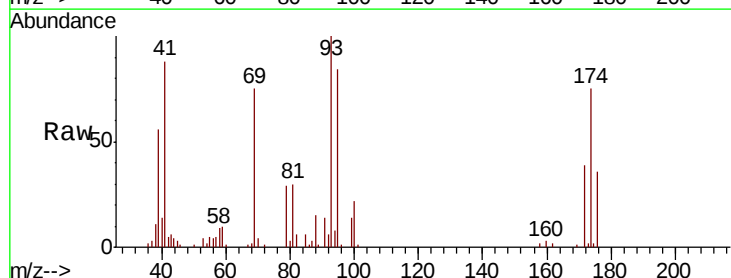
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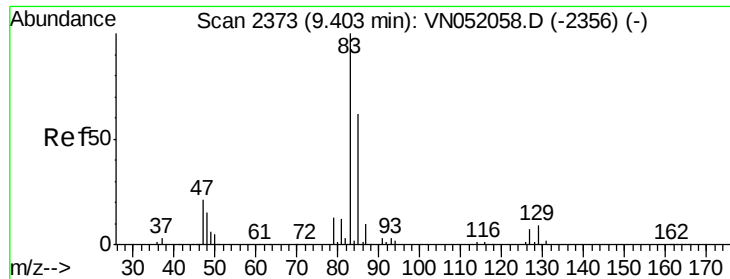
MMDadoda
 11/1/2018 11:48:22 AM



#46
 Dibromomethane
 Concen: 21.293 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN052064.D
 Acq: 30 Oct 2018 15:10

Tgt Ion: 93 Resp: 48813
 Ion Ratio Lower Upper
 93 100
 95 80.7 67.2 100.8
 174 73.4 59.7 89.5





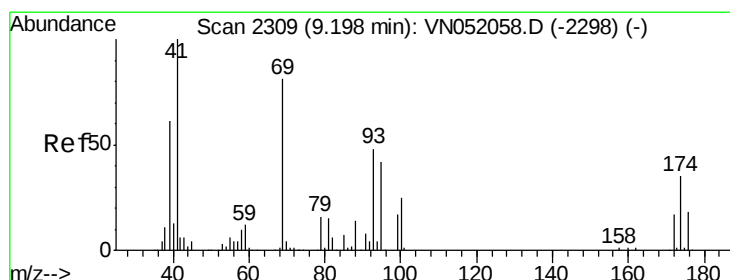
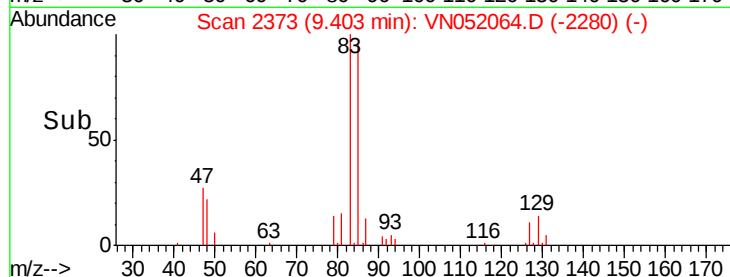
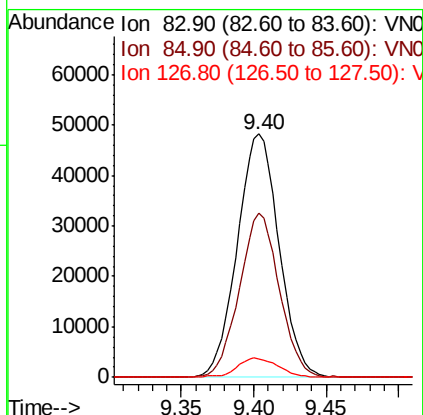
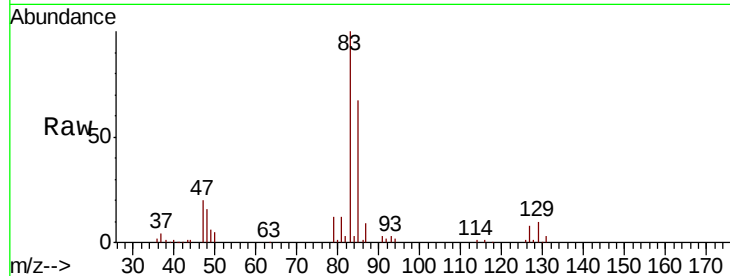
#47
Bromodichloromethane
Concen: 20.169 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. 0.00 min
Lab File: VN052064.D
Acq: 30 Oct 2018 15:10

Instrument :
MSVOA_N
ClientSampleId :
VN1030WBSD01

Tot Ion	83	Resp	96430
Ion Ratio	100	Lower	Upper
83	100		
85	67.3	49.4	74.2
127	7.6	5.8	8.8

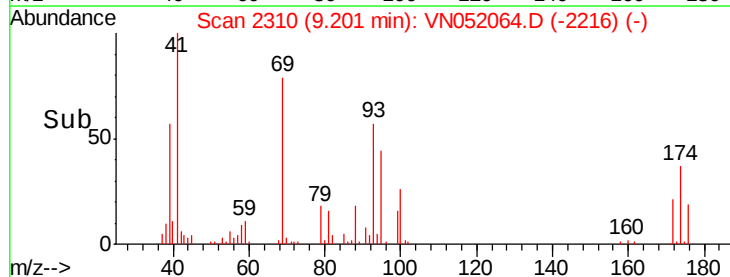
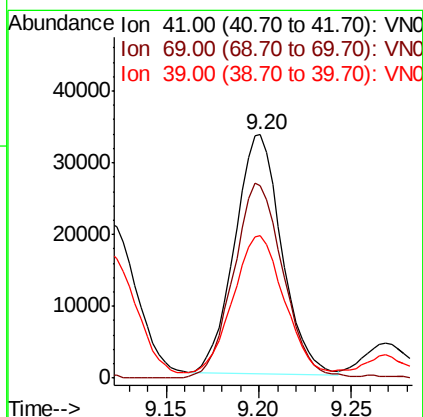
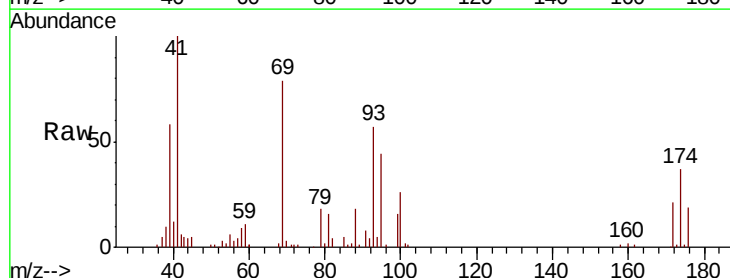
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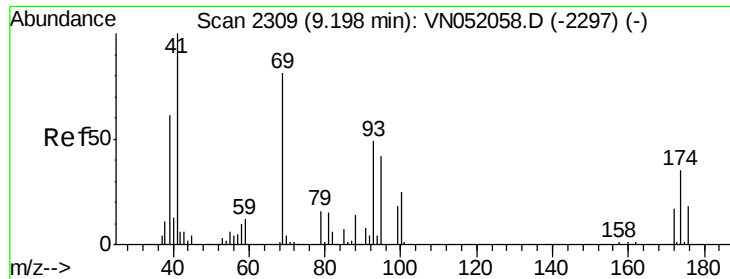
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#48
Methyl methacrylate
Concen: 19.448 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN052064.D
Acq: 30 Oct 2018 15:10

Tgt Ion	41	Resp	58432
Ion Ratio	100	Lower	Upper
41	100		
69	86.3	67.1	100.7
39	66.5	50.5	75.7





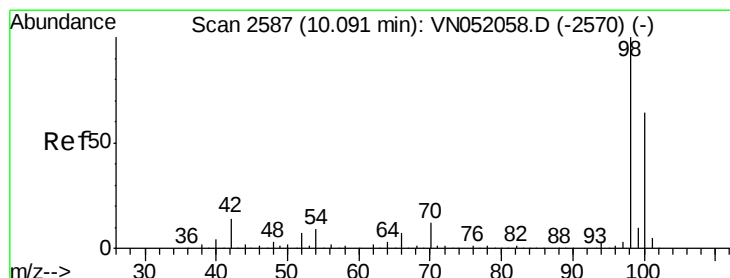
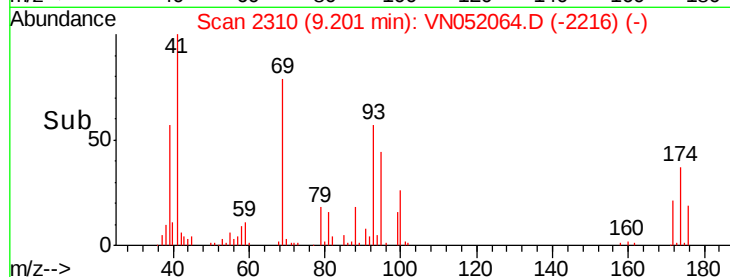
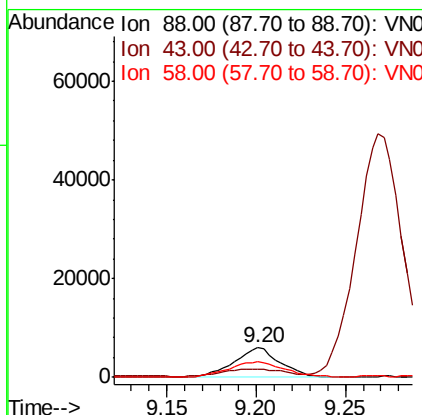
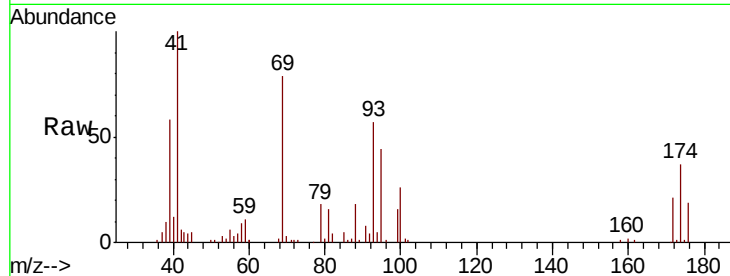
#49
1,4-Dioxane
Concen: 439.207 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN052064.D
Acq: 30 Oct 2018 15:10

Instrument :
MSVOA_N
ClientSampleId :
VN1030WBSD01

Tot Ion	Ratio	Lower	Upper
88	100		
43	33.5	34.1	51.1#
58	66.6	62.8	94.2

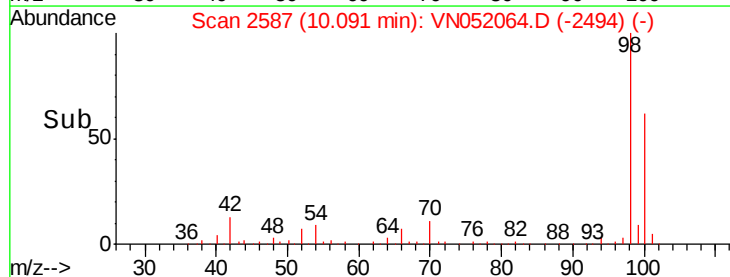
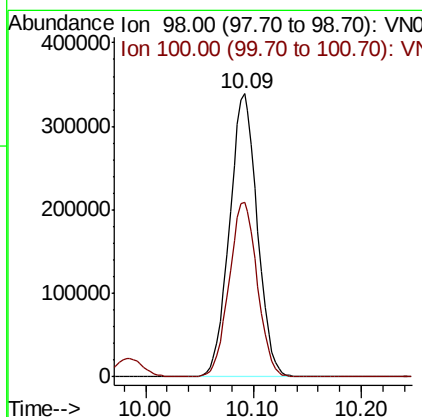
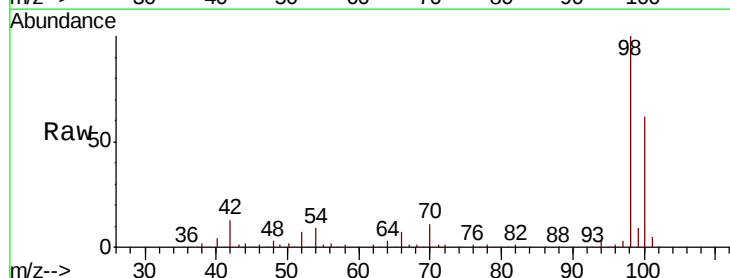
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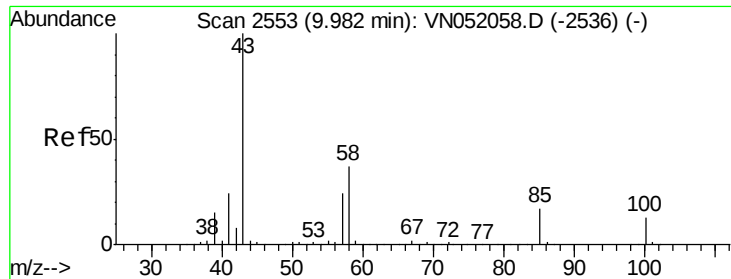
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#50
Toluene-d8
Concen: 439.207 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN052064.D
Acq: 30 Oct 2018 15:10

Tgt Ion	Ratio	Lower	Upper
98	100		
100	62.6	51.4	77.2





#51

4-Methyl-2-Pentanone

Concen: 99.273 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. 0.00 min

Lab File: VN052064.D

Acq: 30 Oct 2018 15:10

Instrument :

MSVOA_N

ClientSampleId :

VN1030WBSD01

Tot Ion: 43 Resp: 319763

Ion Ratio Lower Upper

43 100

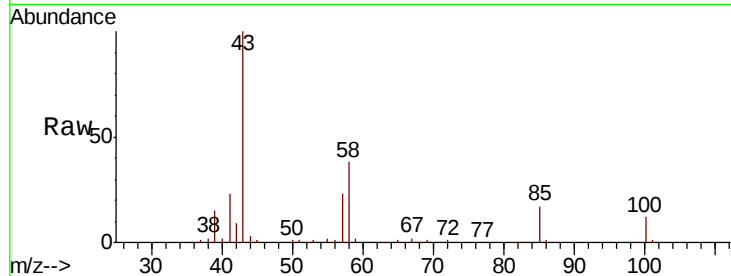
58 37.0 29.7 44.5

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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

200000

150000

100000

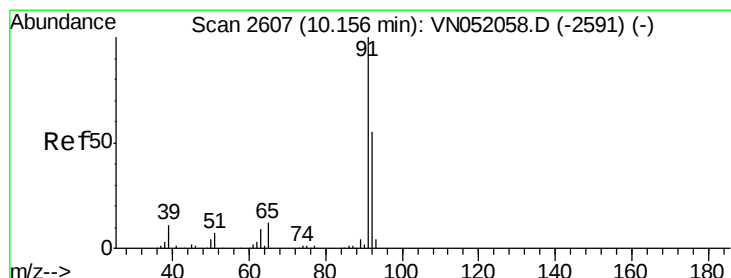
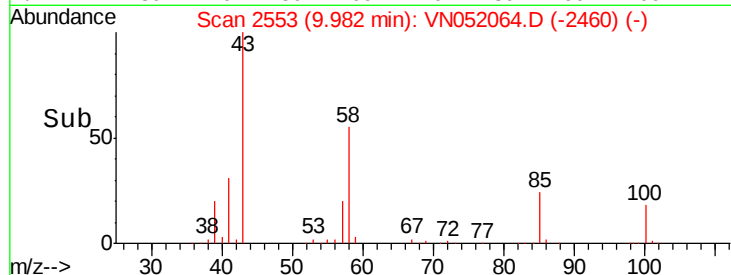
50000

0

9.90

10.00

Time-->



#52

Toluene

Concen: 20.293 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN052064.D

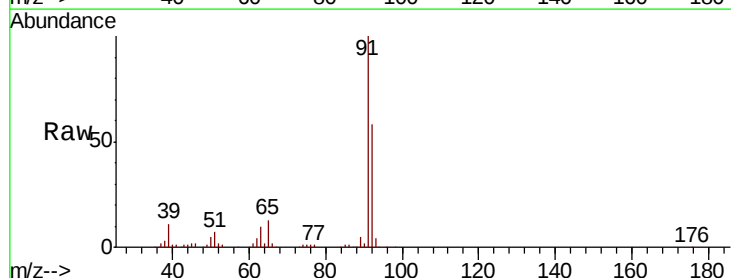
Acq: 30 Oct 2018 15:10

Tgt Ion: 92 Resp: 176384

Ion Ratio Lower Upper

92 100

91 178.8 143.9 215.9



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0

200000

150000

100000

50000

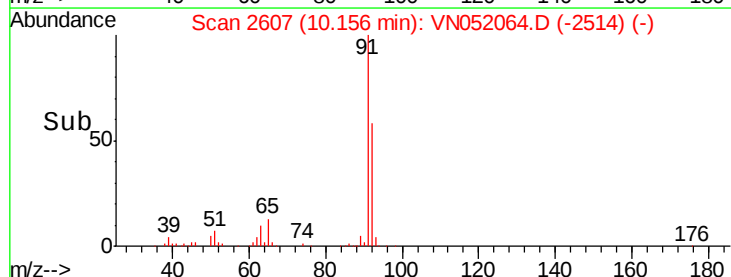
0

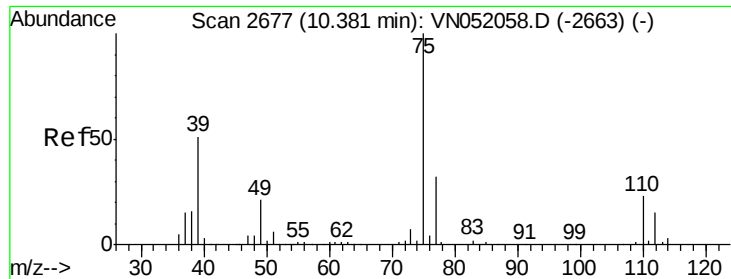
10.10

10.15

10.20

Time-->





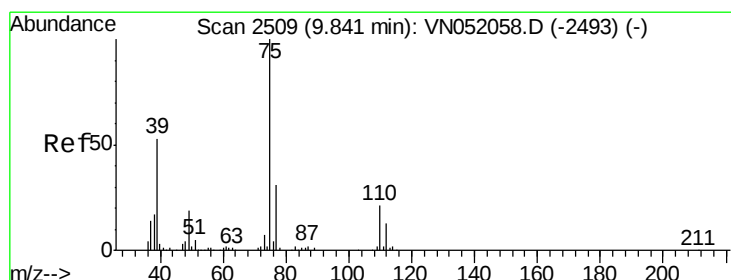
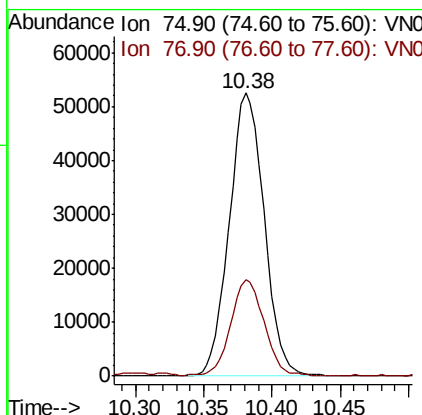
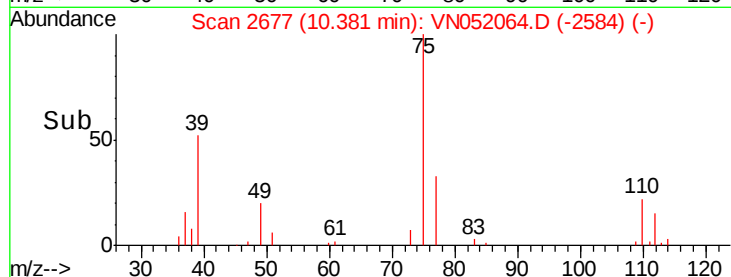
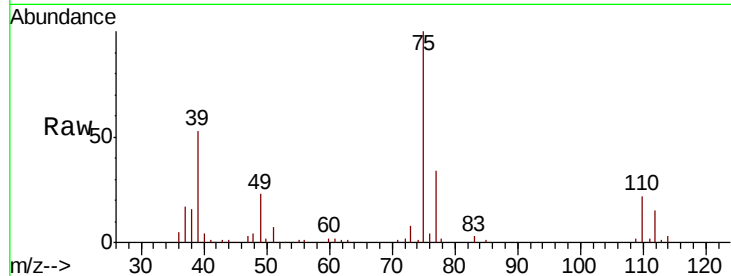
#53
t-1,3-Dichloropropene
Concen: 18.481 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. 0.00 min
Lab File: VN052064.D
Acq: 30 Oct 2018 15:10

Instrument :
MSVOA_N
ClientSampled :
VN1030WBSD01

Tot Ion: 75 Resp: 93420
Ion Ratio Lower Upper
75 100
77 33.9 25.6 38.4

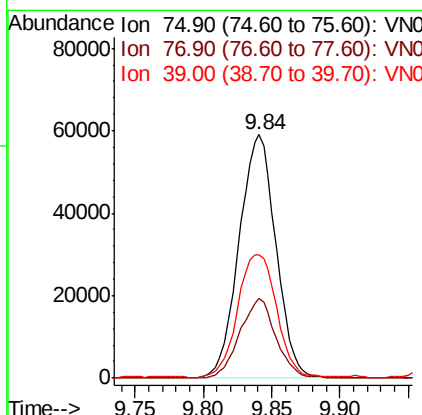
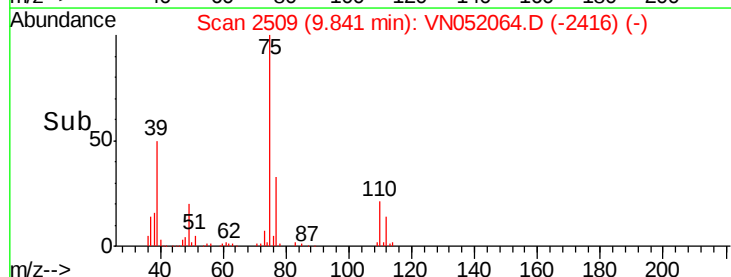
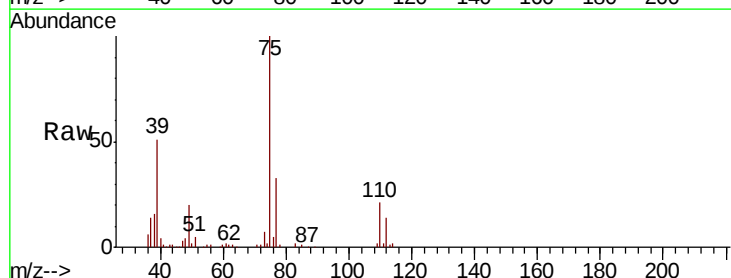
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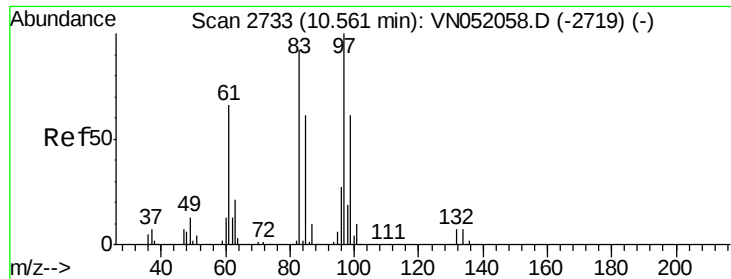
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#54
cis-1,3-Dichloropropene
Concen: 19.689 ug/l
RT: 9.84 min Scan# 2509
Delta R.T. 0.00 min
Lab File: VN052064.D
Acq: 30 Oct 2018 15:10

Tgt Ion: 75 Resp: 110527
Ion Ratio Lower Upper
75 100
77 32.7 25.0 37.4
39 50.5 42.3 63.5





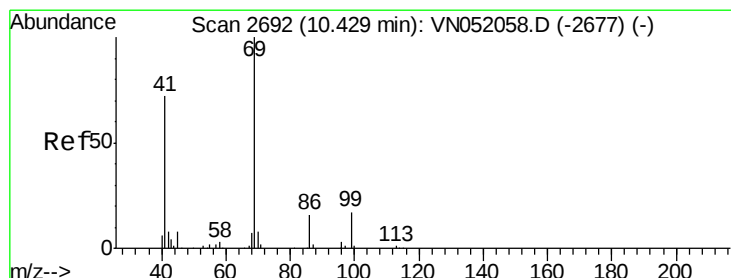
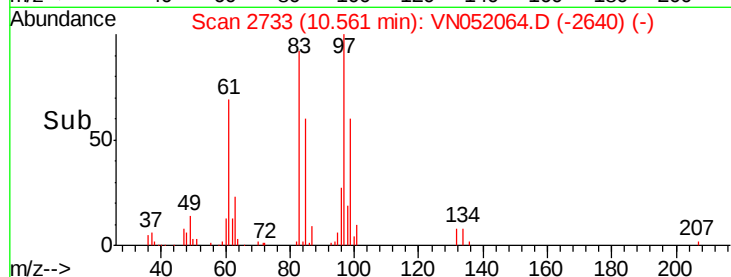
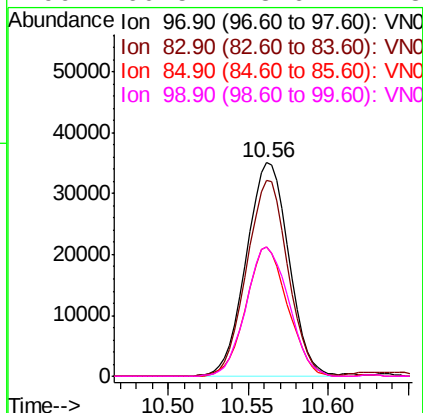
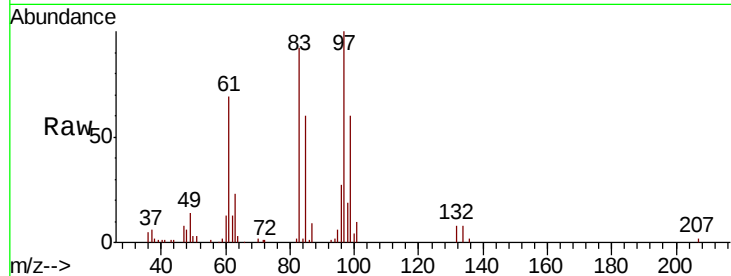
#55
 1,1,2-Trichloroethane
 Concen: 20.739 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. 0.00 min
 Lab File: VN052064.D
 Acq: 30 Oct 2018 15:10

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1030WBSD01

Tot Ion:	97	Resp:	64202
Ion	Ratio	Lower	Upper
97	100		
83	91.9	73.8	110.8
85	60.3	48.4	72.6
99	60.5	48.6	72.8

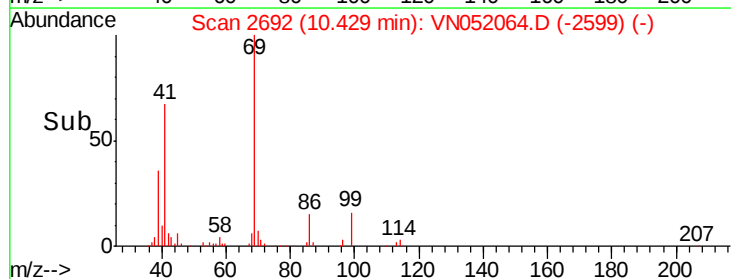
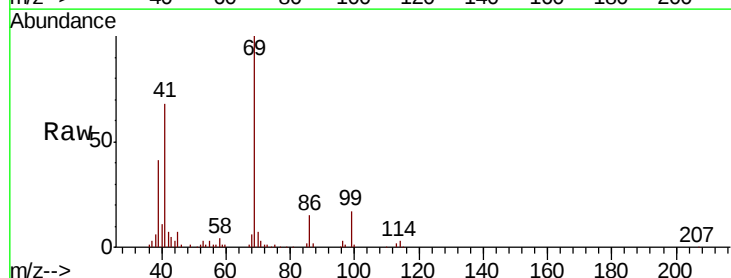
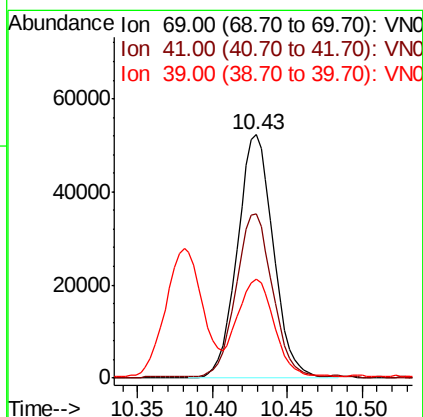
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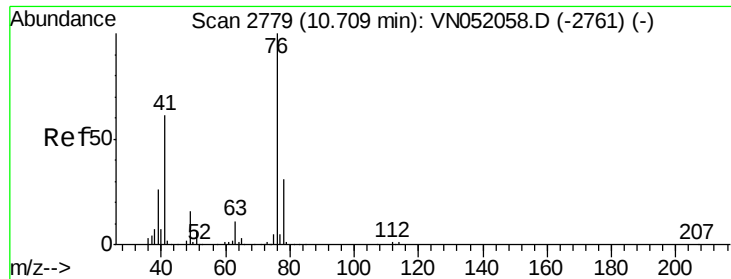
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#56
 Ethyl methacrylate
 Concen: 19.794 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN052064.D
 Acq: 30 Oct 2018 15:10

Tgt Ion:	69	Resp:	87655
Ion	Ratio	Lower	Upper
69	100		
41	67.8	55.5	83.3
39	40.8	33.0	49.4





#57

1,3-Dichloropropane

Concen: 19.824 ug/l

RT: 10.71 min Scan# 2778

Delta R.T. -0.00 min

Lab File: VN052064.D

Acq: 30 Oct 2018 15:10

Instrument :

MSVOA_N

ClientSampleId :

VN1030WBSD01

Tot Ion: 76 Resp: 112920

Ion Ratio Lower Upper

76 100

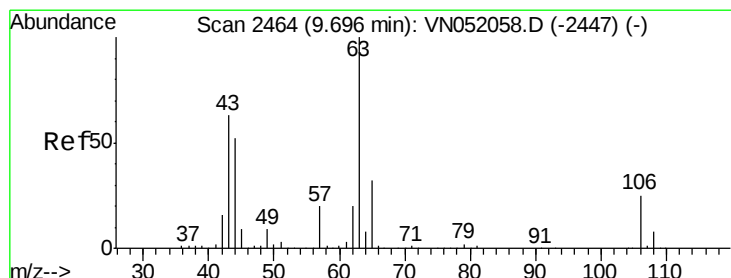
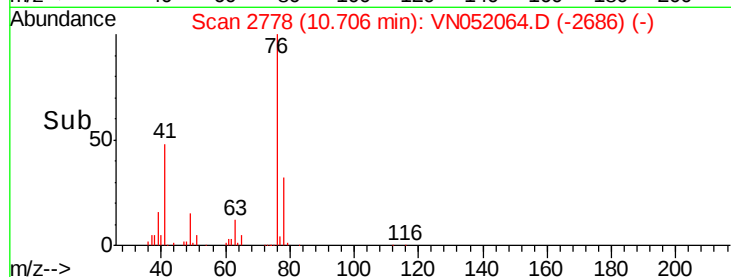
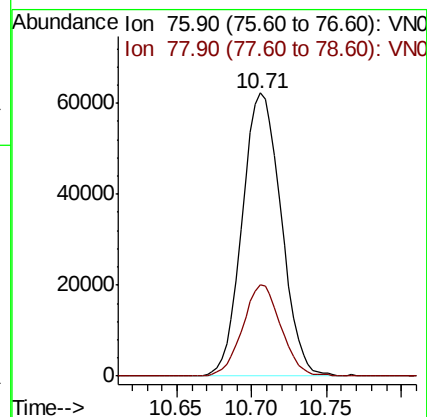
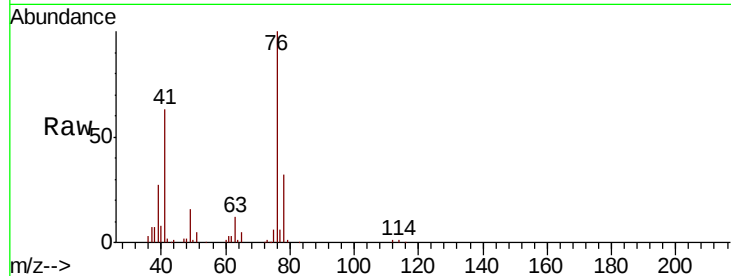
78 31.6 25.4 38.0

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#58

2-Chloroethyl Vinyl ether

Concen: 100.018 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN052064.D

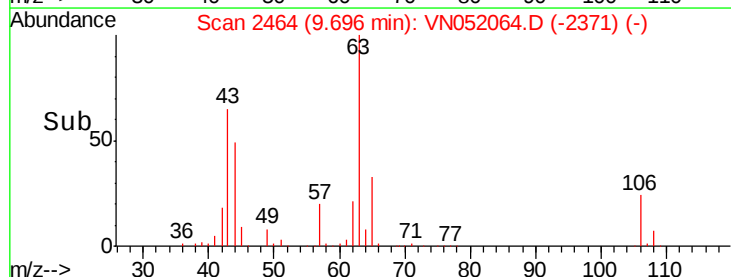
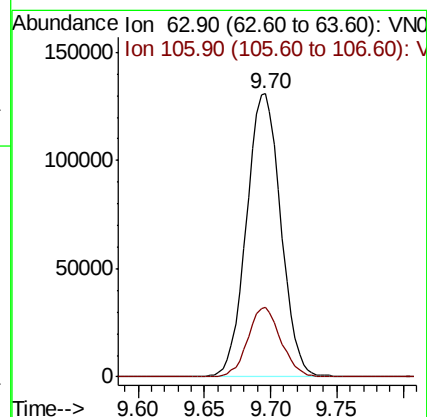
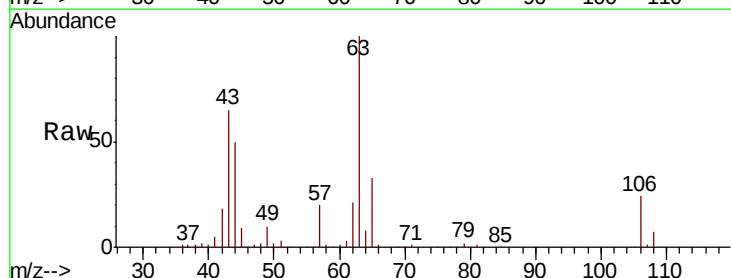
Acq: 30 Oct 2018 15:10

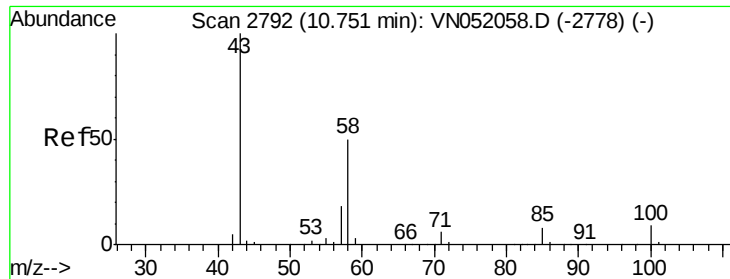
Tgt Ion: 63 Resp: 235592

Ion Ratio Lower Upper

63 100

106 23.6 19.4 29.2





#59

2-Hexanone

Concen: 92.539 ug/l

RT: 10.75 min Scan# 2792

Delta R.T. 0.00 min

Lab File: VN052064.D

Acq: 30 Oct 2018 15:10

Instrument :

MSVOA_N

ClientSampleId :

VN1030WBSD01

Tot Ion: 43 Resp: 212413

Ion Ratio Lower Upper

43 100

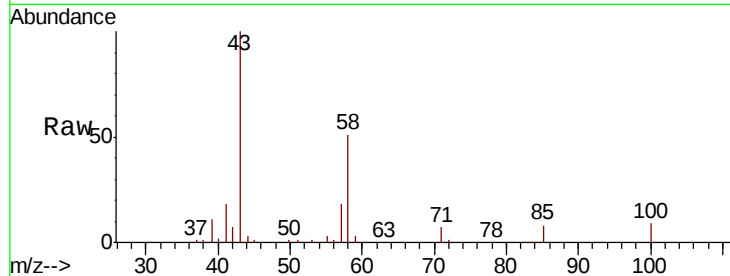
58 51.6 25.2 75.6

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VN052058.D (-2778) (-)

Ion 58.00 (57.70 to 58.70): VN052058.D (-2778) (-)

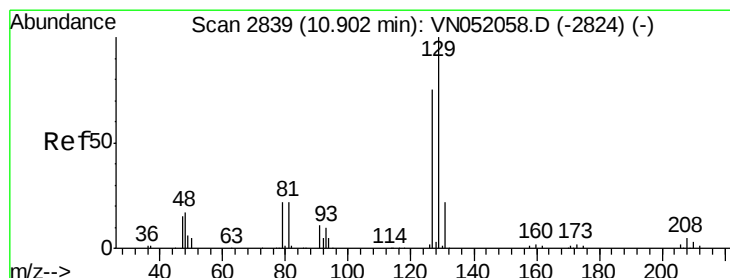
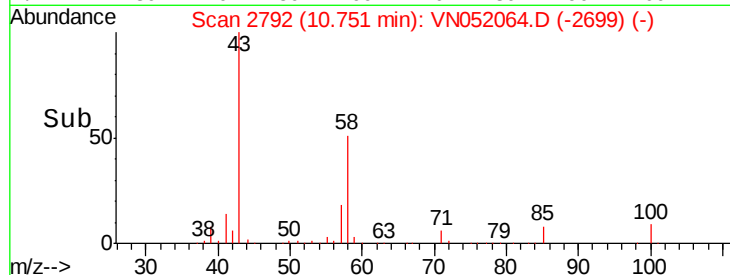
10.75

100000

50000

0

Time-->



#60

Dibromochloromethane

Concen: 19.250 ug/l

RT: 10.90 min Scan# 2839

Delta R.T. 0.00 min

Lab File: VN052064.D

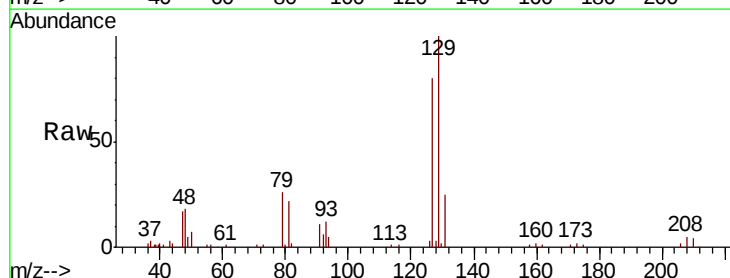
Acq: 30 Oct 2018 15:10

Tgt Ion:129 Resp: 58667

Ion Ratio Lower Upper

129 100

127 78.9 38.5 115.5



Abundance Ion 128.80 (128.50 to 129.50): VN052058.D (-2824) (-)

Ion 126.80 (126.50 to 127.50): VN052058.D (-2824) (-)

10.90

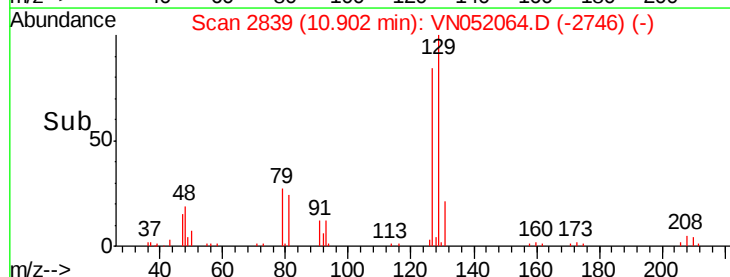
30000

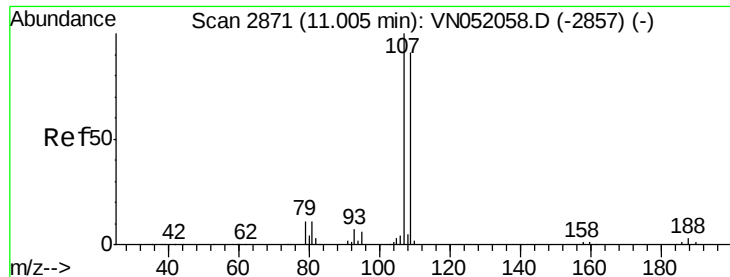
20000

10000

0

Time-->





#61

1,2-Dibromoethane

Concen: 19.638 ug/l

RT: 11.00 min Scan# 2871

Delta R.T. 0.00 min

Lab File: VN052064.D

Acq: 30 Oct 2018 15:10

Instrument :

MSVOA_N

ClientSampleId :

VN1030WBSD01

Tot Ion: 107 Resp: 60436

Ion Ratio Lower Upper

107 100

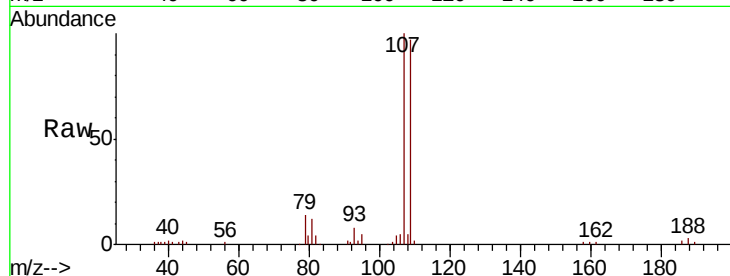
109 96.0 75.1 112.7

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Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

11.00

30000

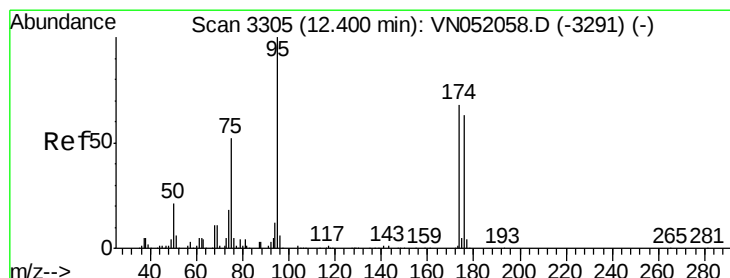
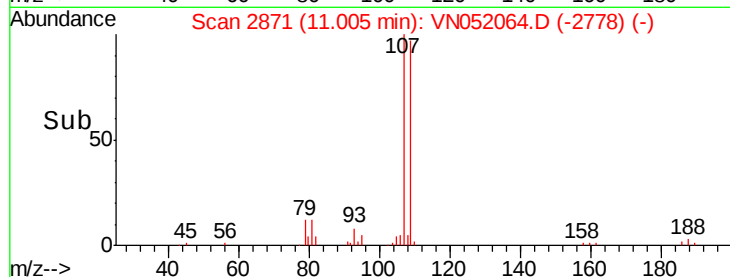
20000

10000

0

Time-->

10.95 11.00 11.05



#62

4-Bromofluorobenzene

Concen: 19.638 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN052064.D

Acq: 30 Oct 2018 15:10

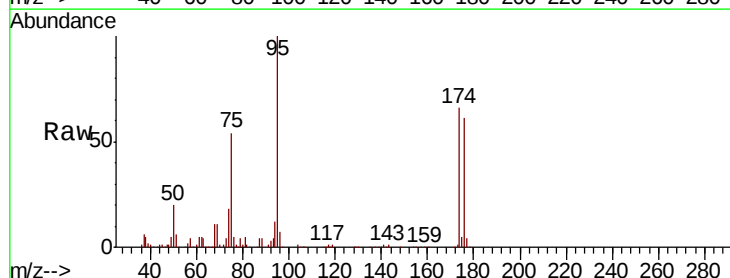
Tgt Ion: 95 Resp: 213367

Ion Ratio Lower Upper

95 100

174 65.8 0.0 131.8

176 61.7 0.0 126.0



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

12.40

150000

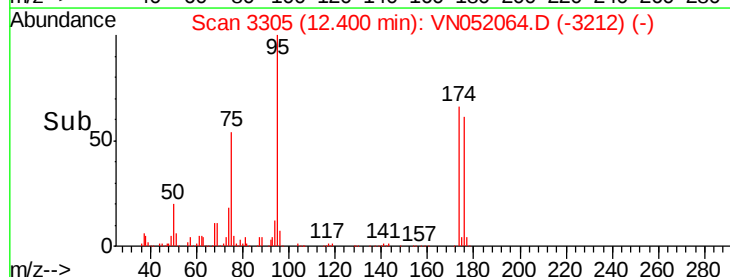
100000

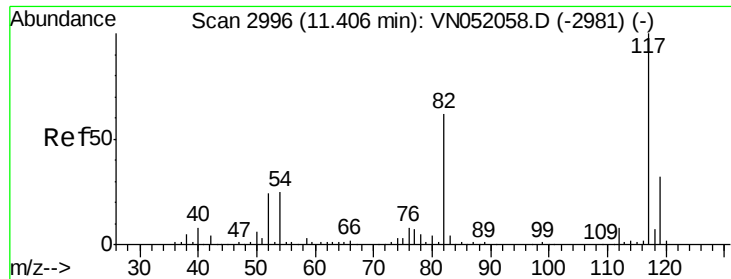
50000

0

Time-->

12.35 12.40 12.45





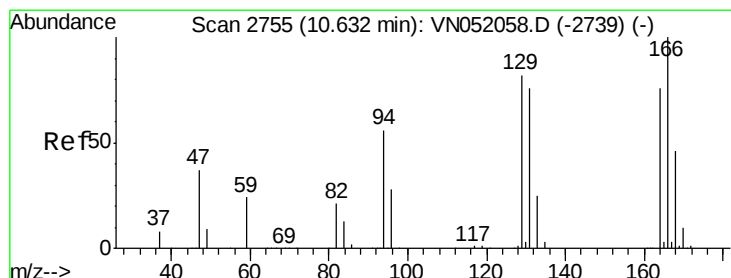
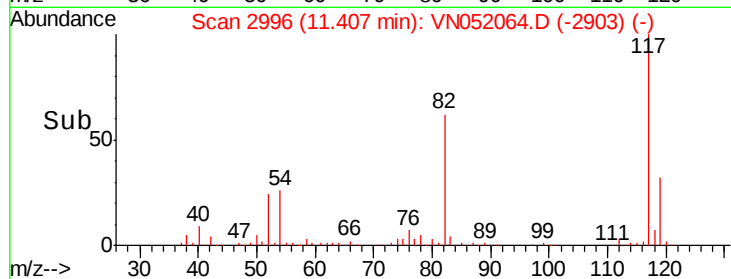
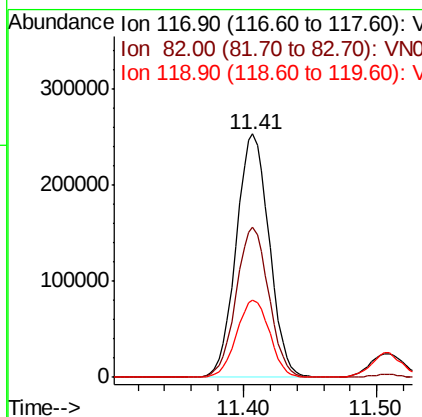
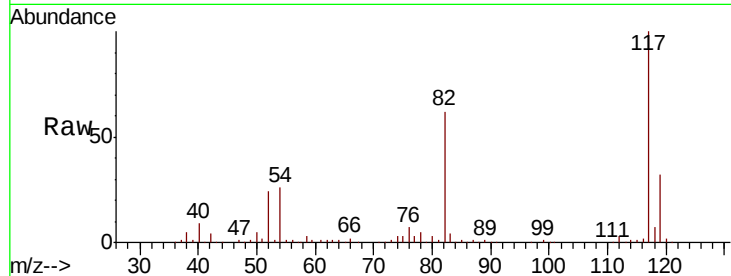
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN052064.D
Acq: 30 Oct 2018 15:10

Instrument :
MSVOA_N
ClientSampleId :
VN1030WBSD01

Tot Ion	Ratio	Lower	Upper
117	100		
82	61.5	49.9	74.9
119	31.6	25.7	38.5

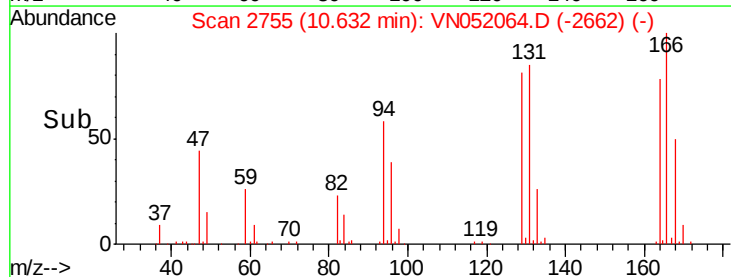
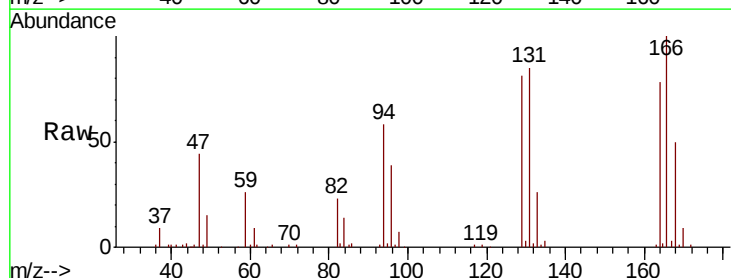
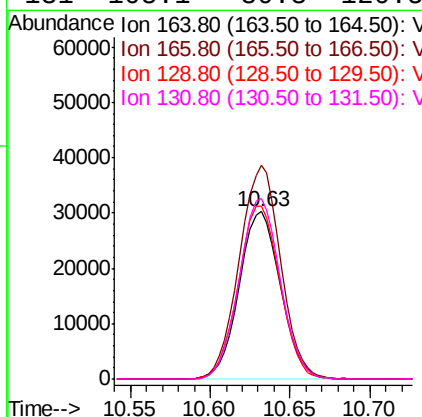
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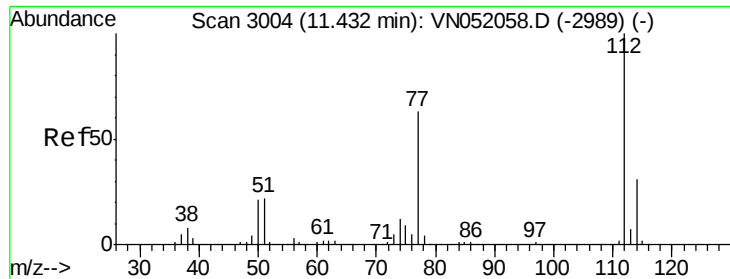
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#64
Tetrachloroethene
Concen: 20.115 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN052064.D
Acq: 30 Oct 2018 15:10

Tgt Ion	Ratio	Lower	Upper
164	100		
166	127.5	105.4	158.0
129	103.6	86.1	129.1
131	108.1	80.3	120.5





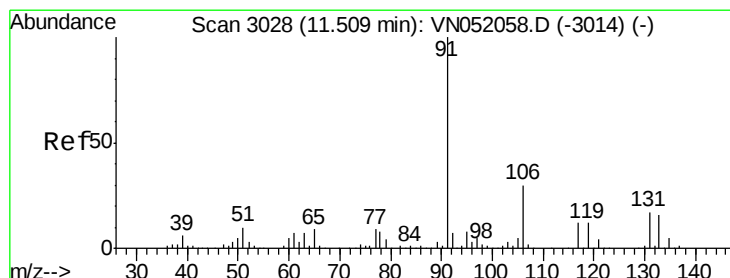
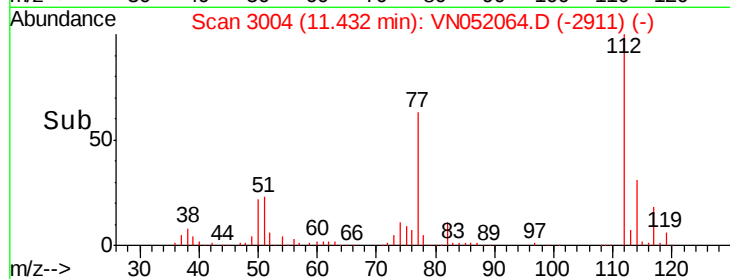
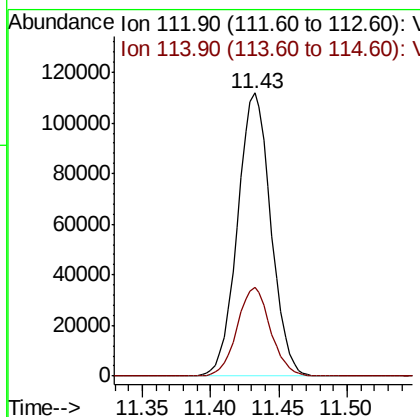
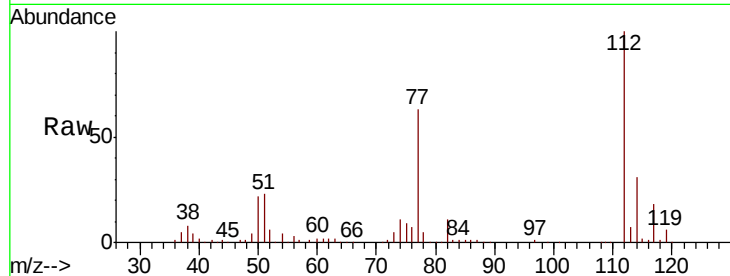
#65
Chlorobenzene
Concen: 20.615 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN052064.D
Acq: 30 Oct 2018 15:10

Instrument :
MSVOA_N
ClientSampleId :
VN1030WBSD01

Tot Ion:112 Resp: 189864
Ion Ratio Lower Upper
112 100
114 31.3 25.1 37.7

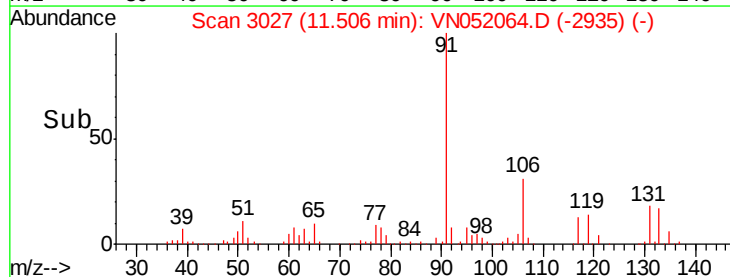
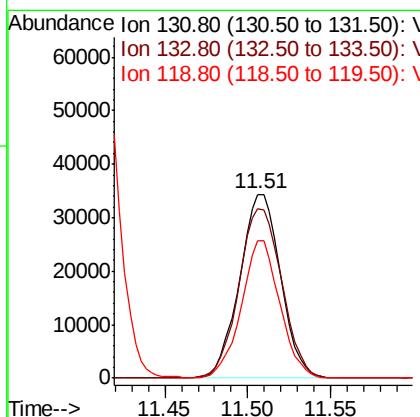
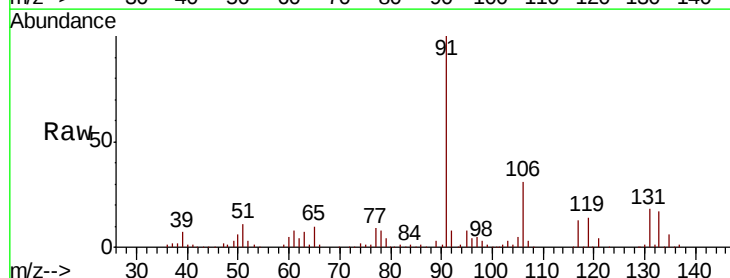
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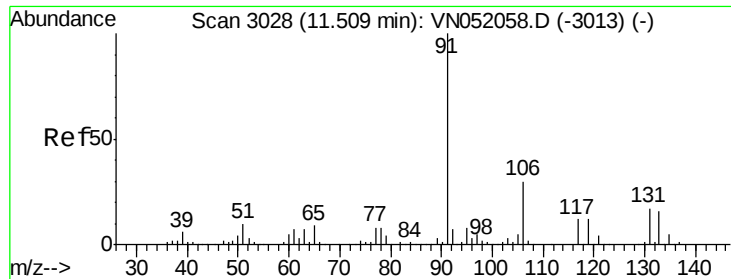
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#66
1,1,1,2-Tetrachloroethane
Concen: 20.440 ug/l
RT: 11.51 min Scan# 3027
Delta R.T. -0.00 min
Lab File: VN052064.D
Acq: 30 Oct 2018 15:10

Tgt Ion:131 Resp: 59110
Ion Ratio Lower Upper
131 100
133 96.4 47.6 142.9
119 70.3 34.4 103.2





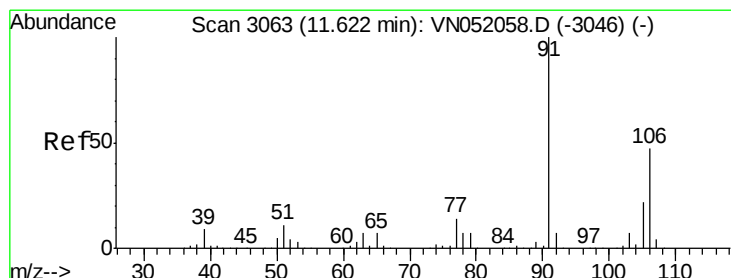
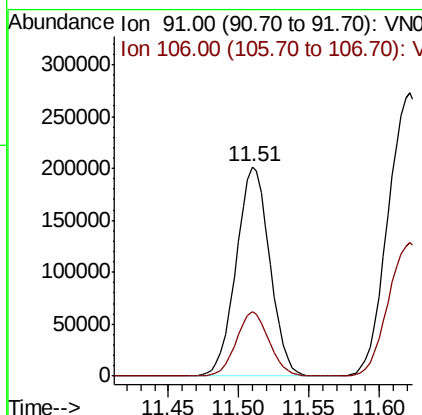
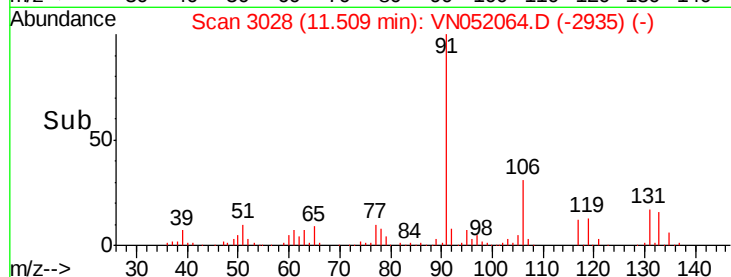
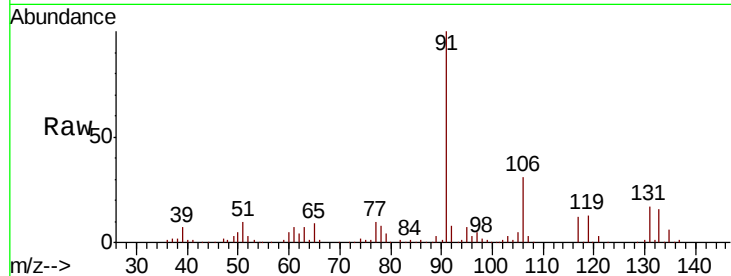
#67
Ethyl Benzene
Concen: 20.490 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN052064.D
Acq: 30 Oct 2018 15:10

Instrument :
MSVOA_N
ClientSampleId :
VN1030WBSD01

Tot Ion: 91 Resp: 336520
Ion Ratio Lower Upper
91 100
106 30.6 24.1 36.1

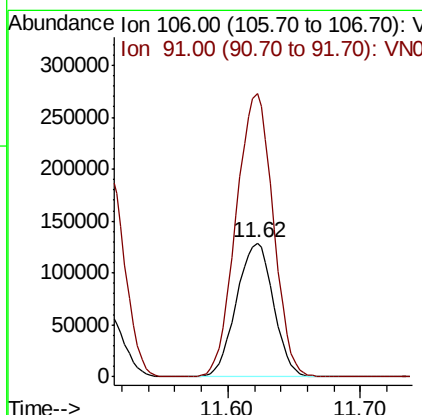
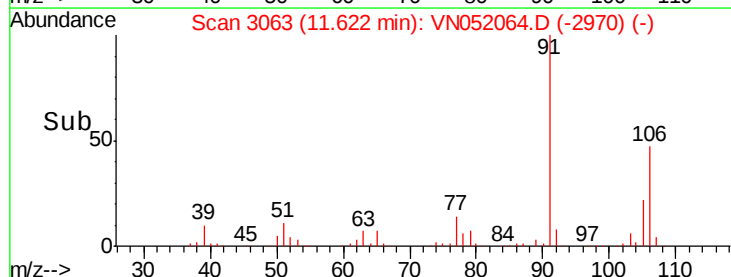
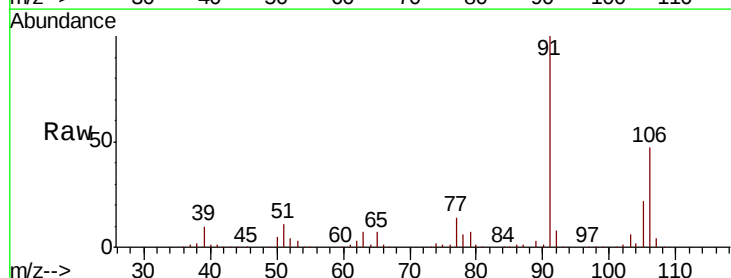
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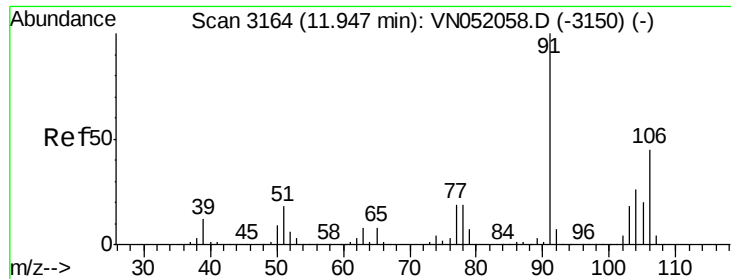
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#68
m/p-Xylenes
Concen: 42.292 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN052064.D
Acq: 30 Oct 2018 15:10

Tgt Ion: 106 Resp: 248620
Ion Ratio Lower Upper
106 100
91 212.9 168.7 253.1





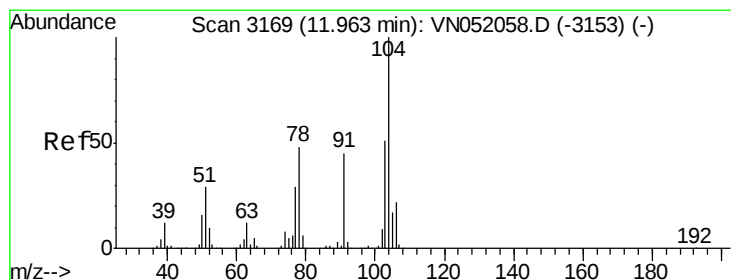
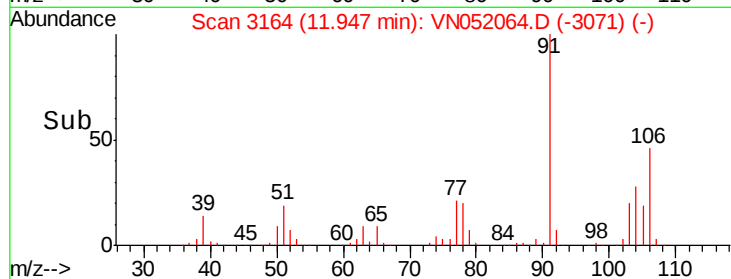
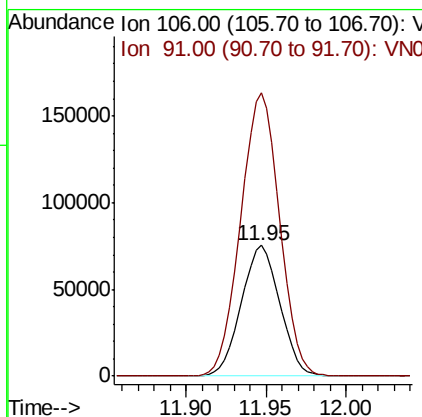
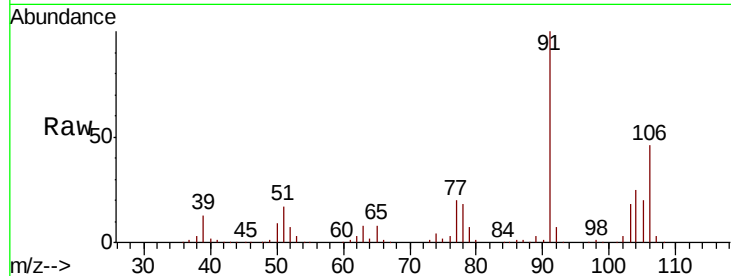
#69
o-Xylene
Concen: 21.367 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN052064.D
Acq: 30 Oct 2018 15:10

Instrument :
MSVOA_N
ClientSampled :
VN1030WBSD01

Tot Ion	Ratio	Lower	Upper
106	100		
91	218.0	109.6	328.6

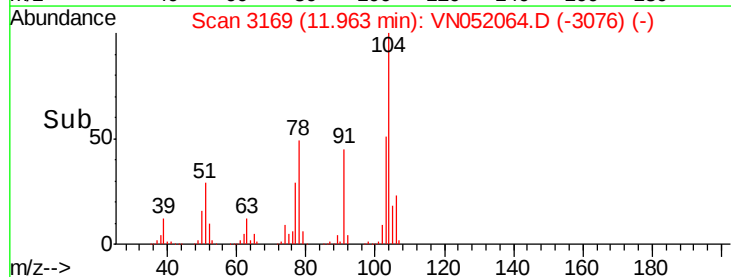
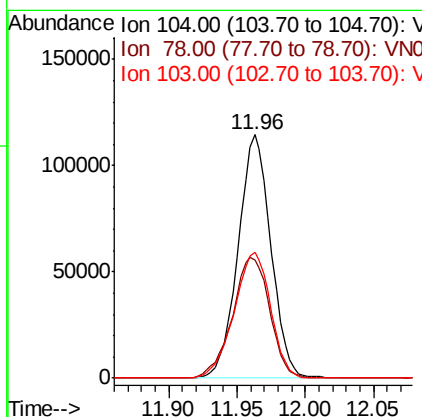
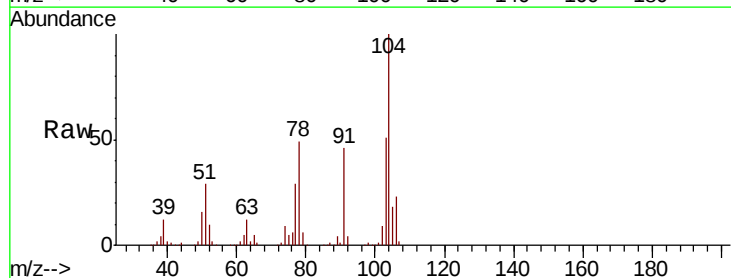
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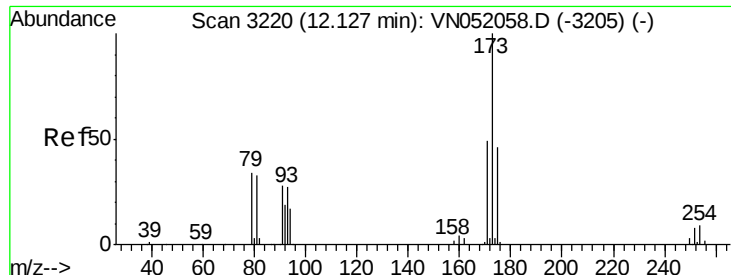
MMDadoda
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#70
Styrene
Concen: 20.295 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN052064.D
Acq: 30 Oct 2018 15:10

Tgt Ion	Ratio	Lower	Upper
104	100		
78	56.5	43.0	64.6
103	57.4	45.1	67.7





#71

Bromoform

Concen: 18.363 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN052064.D

Acq: 30 Oct 2018 15:10

Instrument :

MSVOA_N

ClientSampleId :

VN1030WBSD01

Tot Ion:173 Resp: 31448

Ion Ratio Lower Upper

173 100

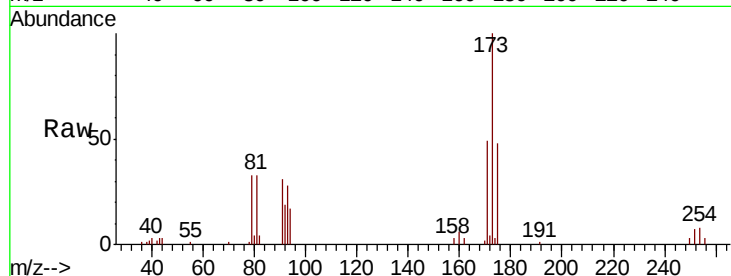
175 46.1 23.9 71.7

254 0.0 0.0 0.0

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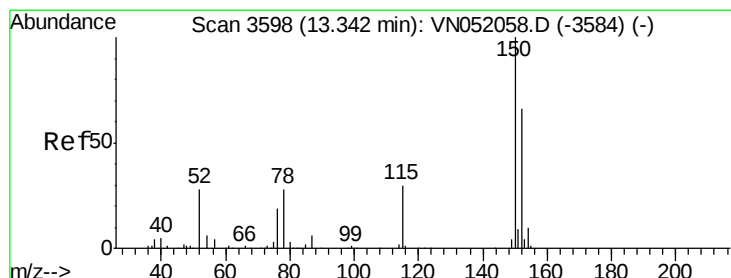
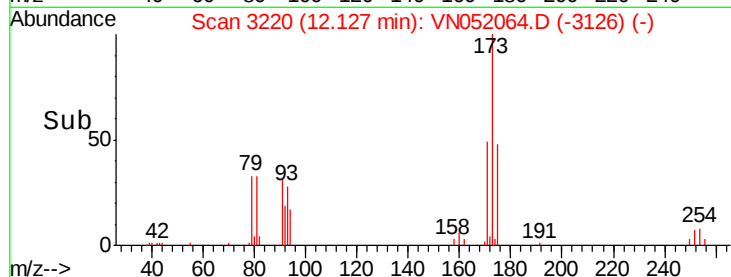
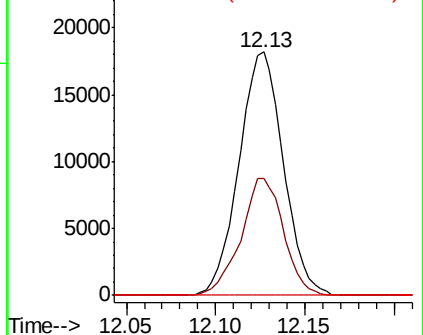
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Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN052064.D

Acq: 30 Oct 2018 15:10

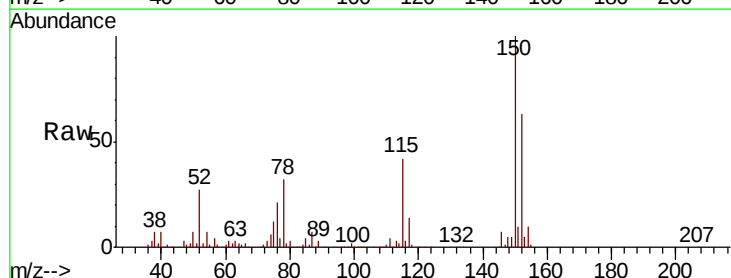
Tgt Ion:152 Resp: 176081

Ion Ratio Lower Upper

152 100

115 66.9 31.6 95.0

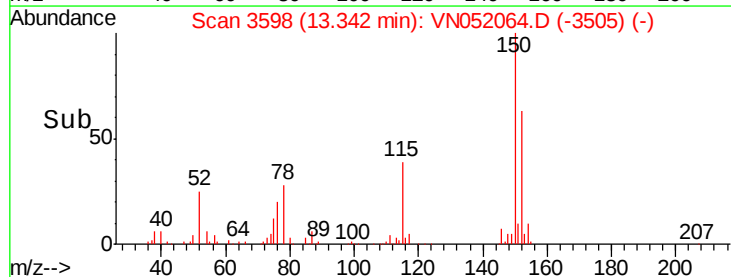
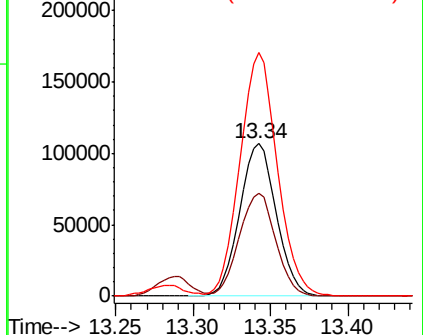
150 162.9 0.0 345.0

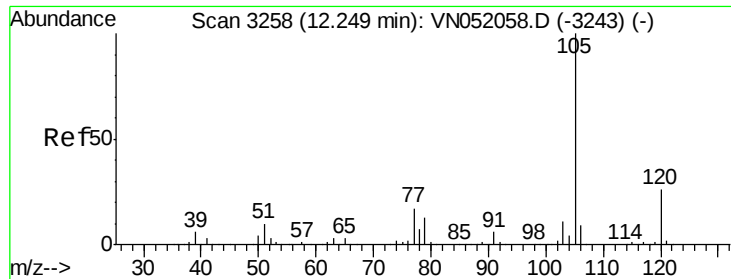


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 21.464 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN052064.D

Acq: 30 Oct 2018 15:10

Instrument :

MSVOA_N

ClientSampleId :

VN1030WBSD01

Tot Ion: 105 Resp: 323196

Ion Ratio Lower Upper

105 100

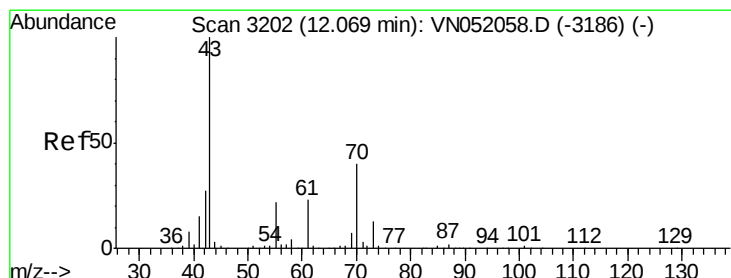
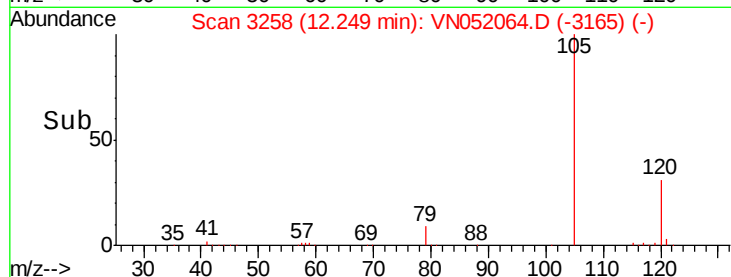
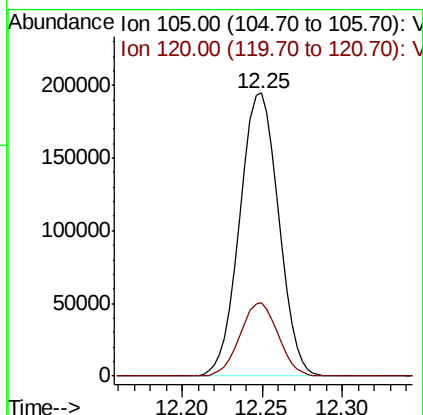
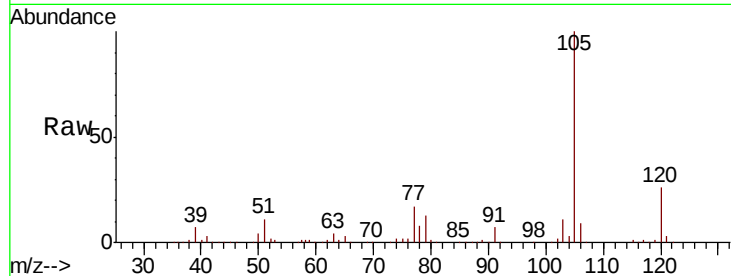
120 25.4 12.8 38.4

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#74

N-ethyl acetate

Concen: 20.119 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN052064.D

Acq: 30 Oct 2018 15:10

Tgt Ion: 43 Resp: 105721

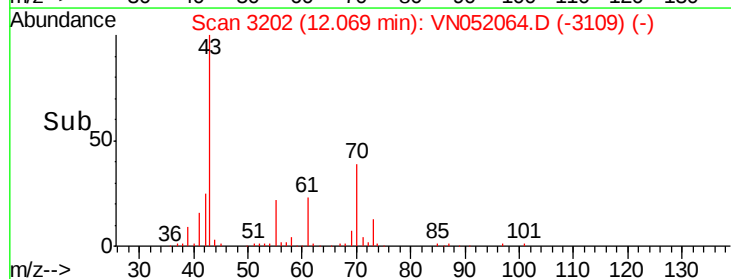
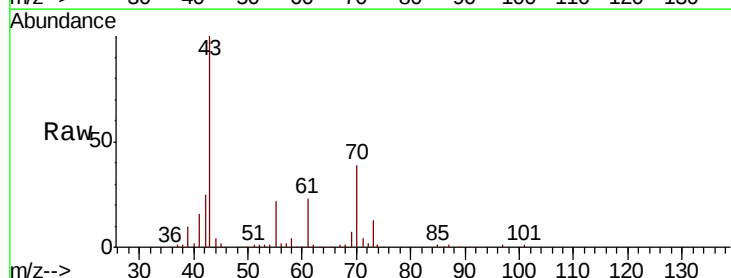
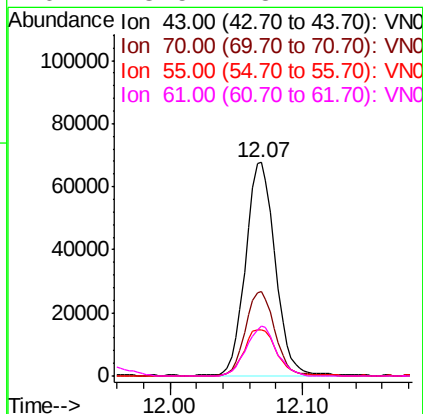
Ion Ratio Lower Upper

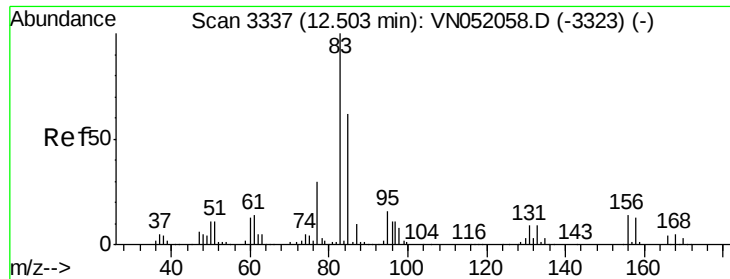
43 100

70 39.3 31.9 47.9

55 24.0 18.4 27.6

61 23.5 18.2 27.4





#75

1,1,2,2-Tetrachloroethane

Concen: 21.206 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN052064.D

Acq: 30 Oct 2018 15:10

Instrument :

MSVOA_N

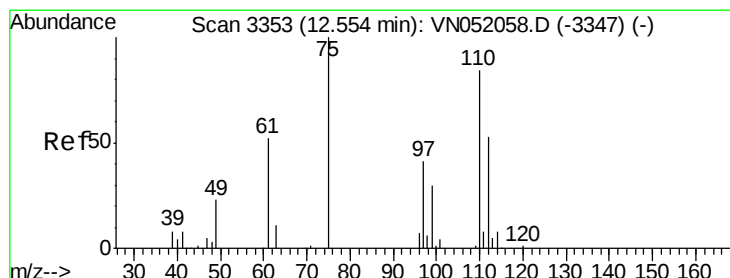
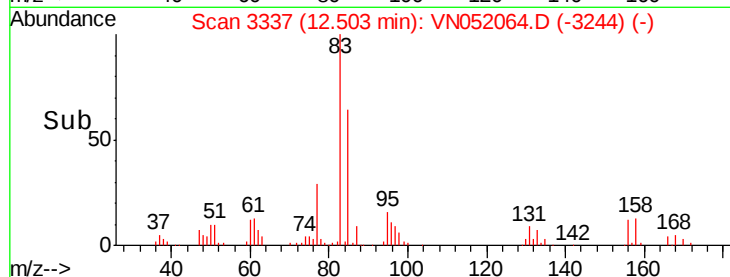
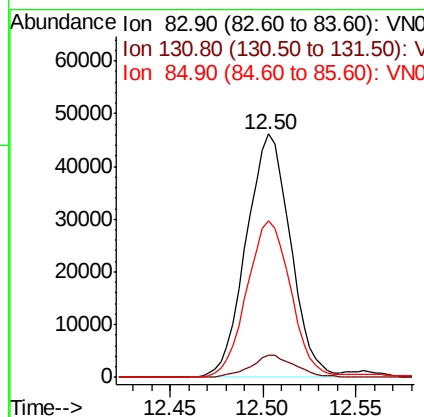
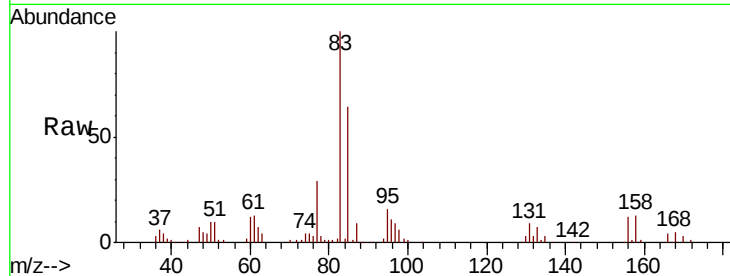
ClientSampleId :

VN1030WBSD01

Tot Ion:	83	Resp:	76566
Ion	Ratio	Lower	Upper
83	100		
131	9.0	4.5	13.4
85	64.2	31.3	93.9

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#76

1,2,3-Trichloropropane

Concen: 22.539 ug/l m

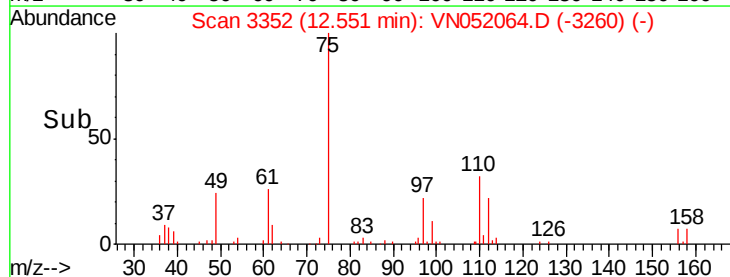
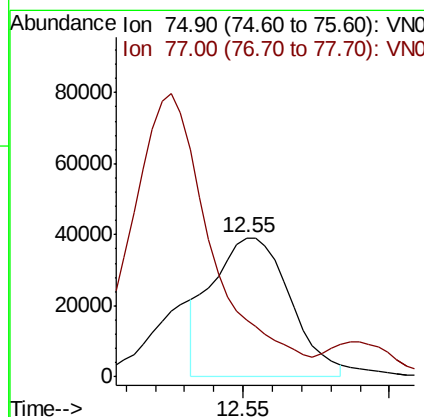
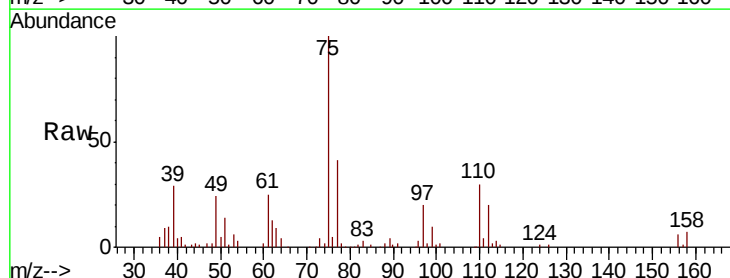
RT: 12.55 min Scan# 3352

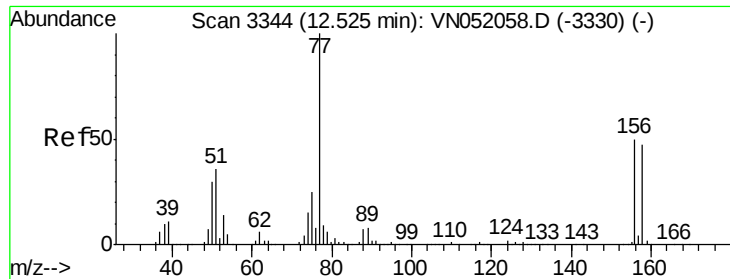
Delta R.T. -0.00 min

Lab File: VN052064.D

Acq: 30 Oct 2018 15:10

Tgt Ion:	75	Resp:	72650
Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 21.060 ug/l

RT: 12.52 min Scan# 3343

Delta R.T. -0.00 min

Lab File: VN052064.D

Acq: 30 Oct 2018 15:10

Instrument :

MSVOA_N

ClientSampleId :

VN1030WBSD01

Tot Ion:156 Resp: 66348

Ion Ratio Lower Upper

156 100

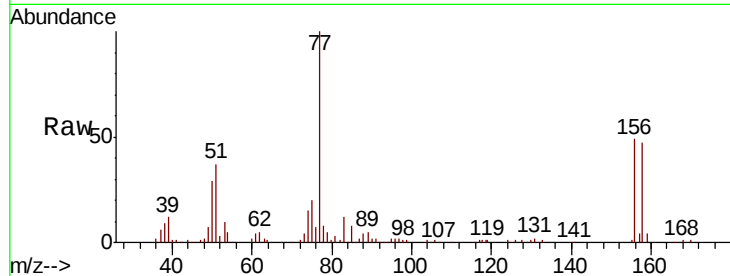
77 231.2 119.6 358.6

158 96.8 47.8 143.4

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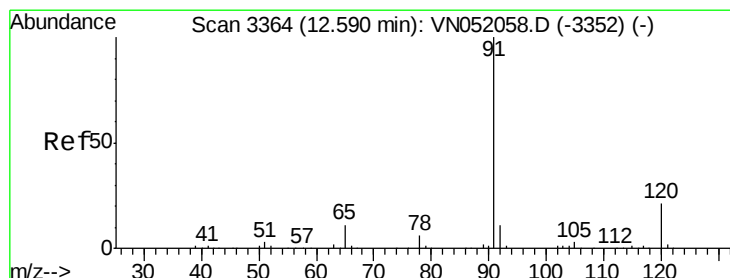
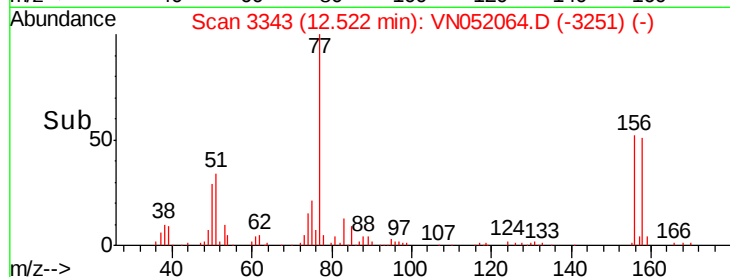
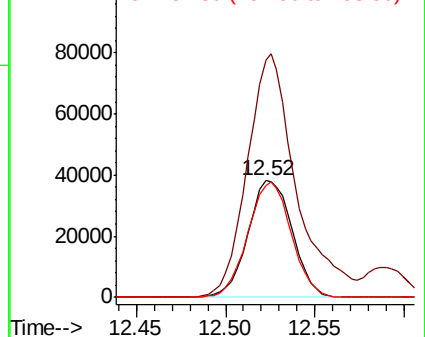
11/1/2018 11:48:22 AM



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 20.774 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN052064.D

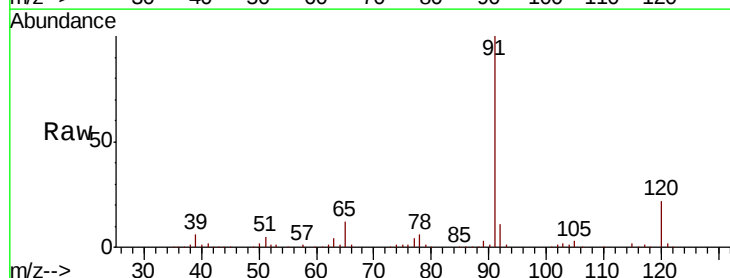
Acq: 30 Oct 2018 15:10

Tgt Ion: 91 Resp: 379034

Ion Ratio Lower Upper

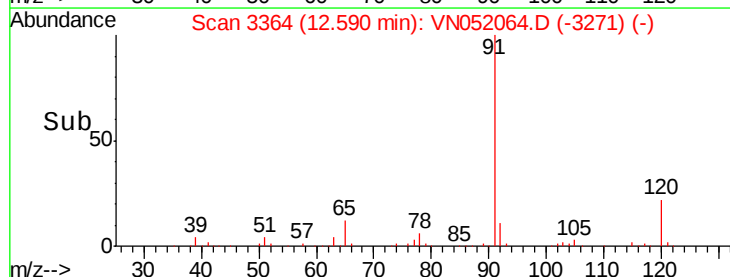
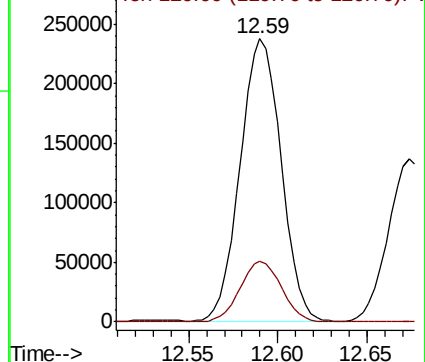
91 100

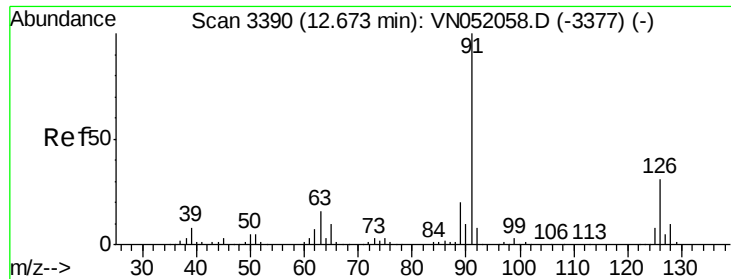
120 21.7 10.8 32.4



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





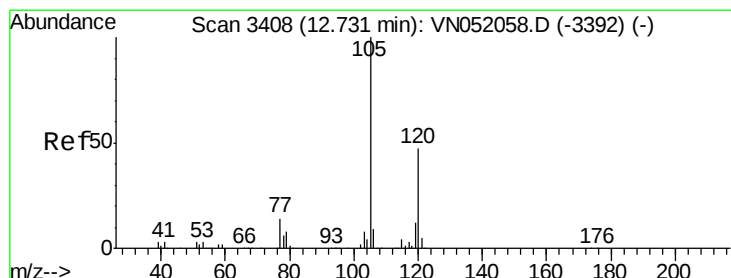
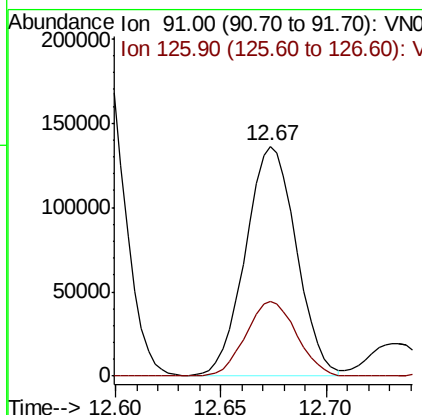
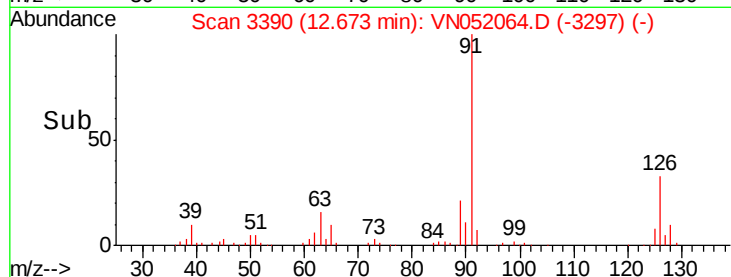
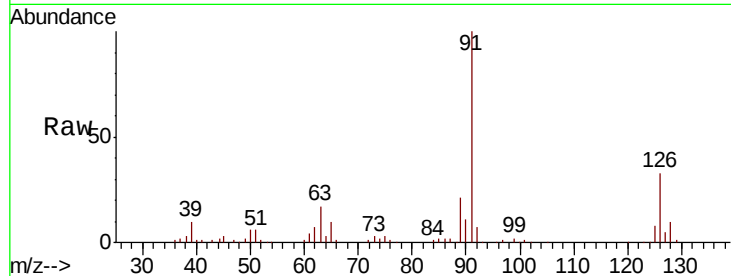
#79
2-Chlorotoluene
Concen: 21.326 ug/l
RT: 12.67 min Scan# 3390
Delta R.T. 0.00 min
Lab File: VN052064.D
Acq: 30 Oct 2018 15:10

Instrument :
MSVOA_N
ClientSampled :
VN1030WBSD01

Tot Ion	Ratio	Lower	Upper
91	100		
126	32.7	15.9	47.6

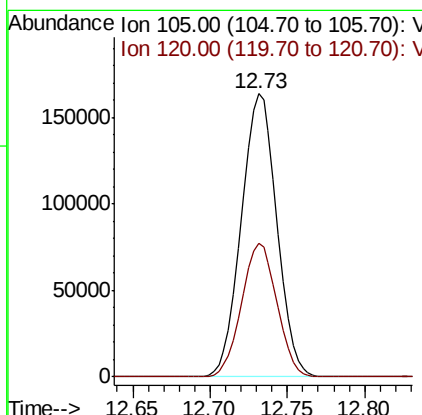
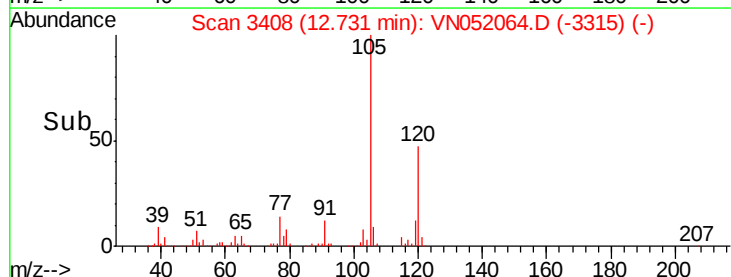
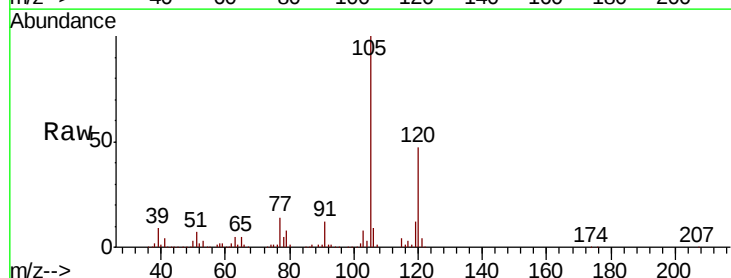
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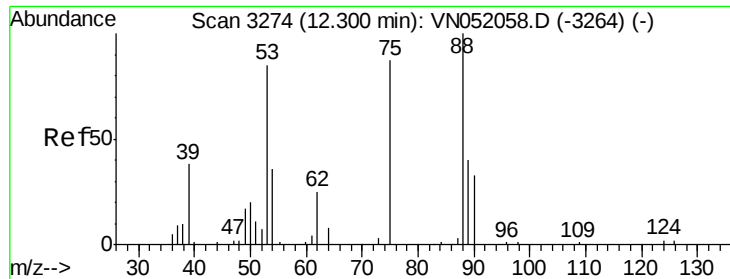
MMDadoda
11/1/2018 11:48:22 AM



#80
1,3,5-Trimethylbenzene
Concen: 21.313 ug/l
RT: 12.73 min Scan# 3408
Delta R.T. 0.00 min
Lab File: VN052064.D
Acq: 30 Oct 2018 15:10

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.9	23.4	70.0





#81

trans-1,4-Dichloro-2-butene

Concen: 19.242 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN052064.D

Acq: 30 Oct 2018 15:10

Instrument :

MSVOA_N

ClientSampleId :

VN1030WBSD01

Tot Ion: 75 Resp: 18686

Ion Ratio Lower Upper

75 100

53 111.3 81.8 122.6

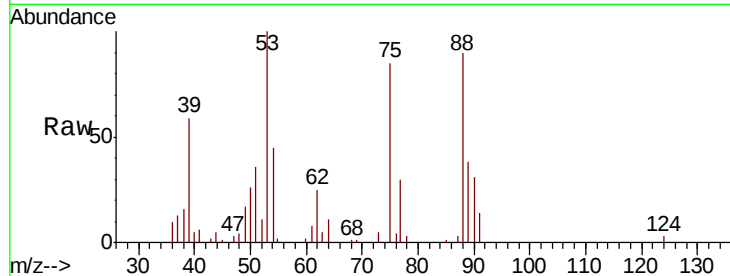
89 41.7 36.6 54.8

Manual Integrations

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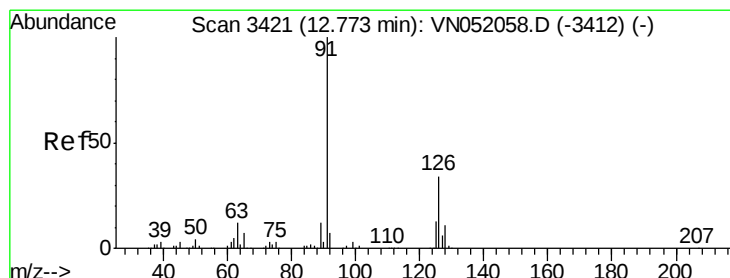
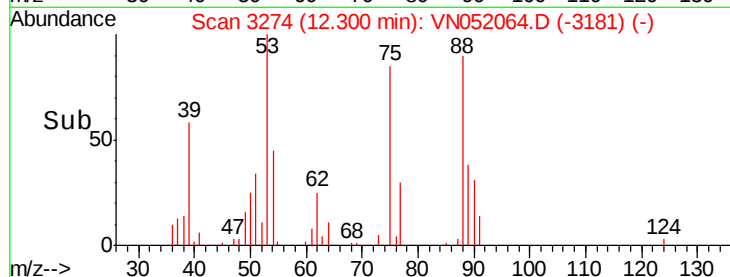
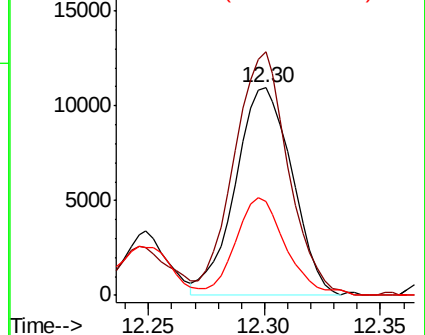
11/1/2018 11:48:22 AM



Abundance Ion 74.90 (74.60 to 75.60): VN052058.D (-3264) (-)

Ion 53.00 (52.70 to 53.70): VN052058.D (-3264) (-)

Ion 88.90 (88.60 to 89.60): VN052058.D (-3264) (-)



#82

4-Chlorotoluene

Concen: 21.569 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. 0.00 min

Lab File: VN052064.D

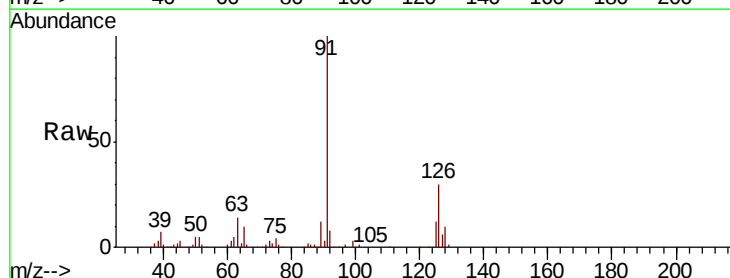
Acq: 30 Oct 2018 15:10

Tgt Ion: 91 Resp: 233939

Ion Ratio Lower Upper

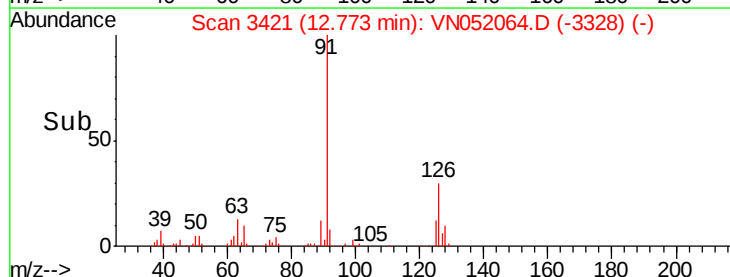
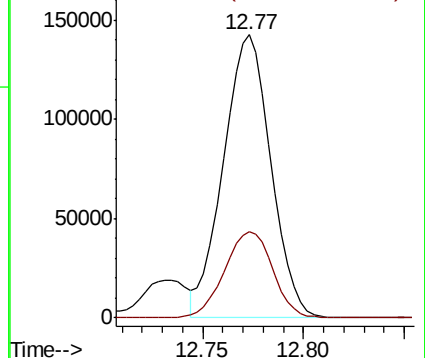
91 100

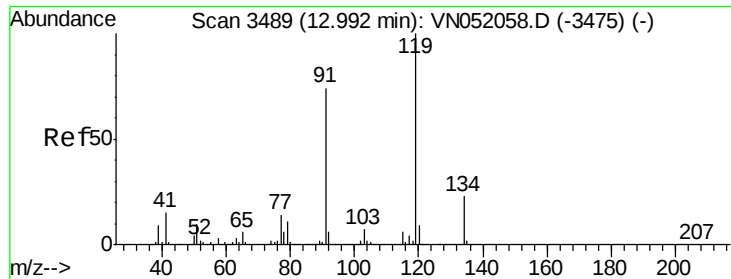
126 31.1 15.7 47.1



Abundance Ion 91.00 (90.70 to 91.70): VN052058.D (-3412) (-)

Ion 125.90 (125.60 to 126.60): VN052058.D (-3412) (-)





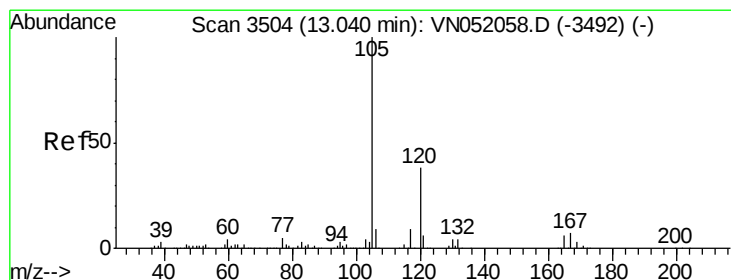
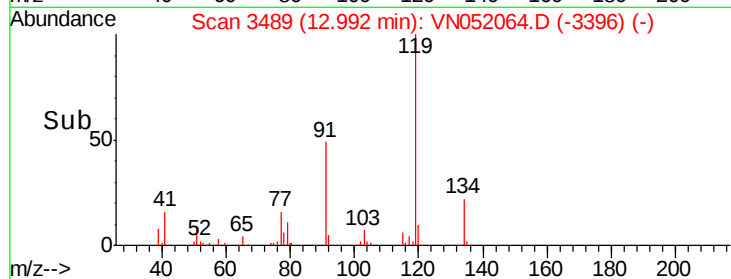
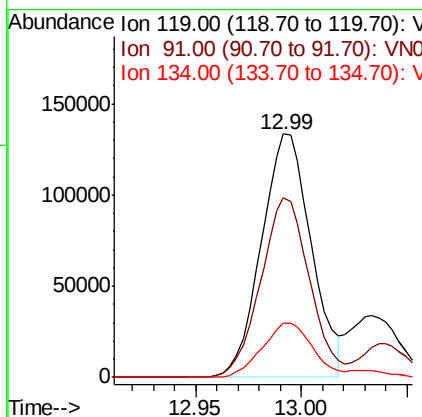
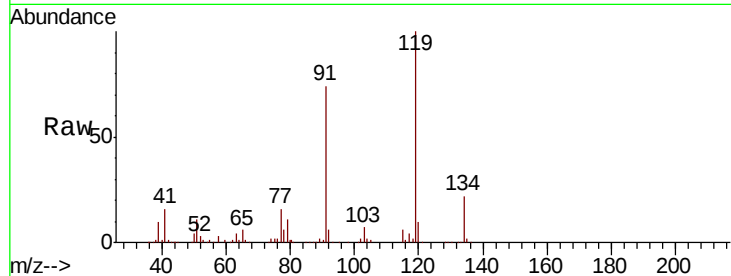
#83
tert-Butylbenzene
Concen: 21.327 ug/l
RT: 12.99 min Scan# 3489
Delta R.T. 0.00 min
Lab File: VN052064.D
Acq: 30 Oct 2018 15:10

Instrument :
MSVOA_N
ClientSampled :
VN1030WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	219523		
91	72.2	36.6	109.9	
134	22.6	12.5	37.5	

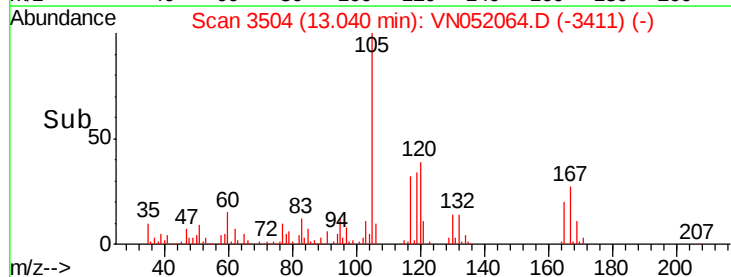
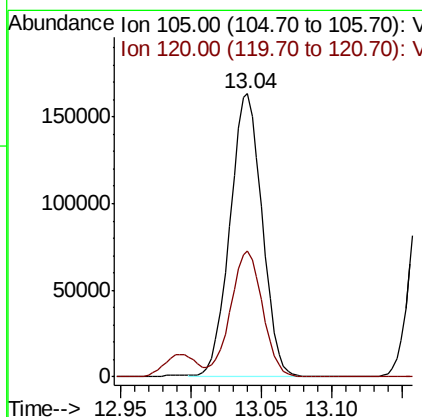
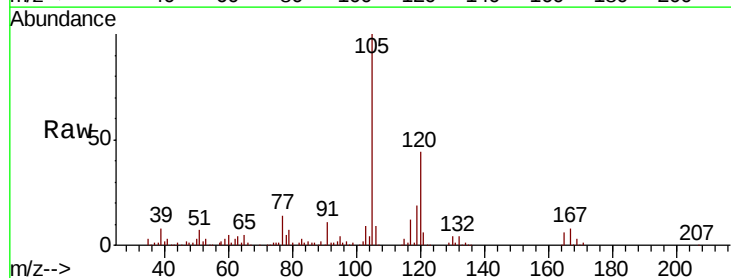
Manual Integrations
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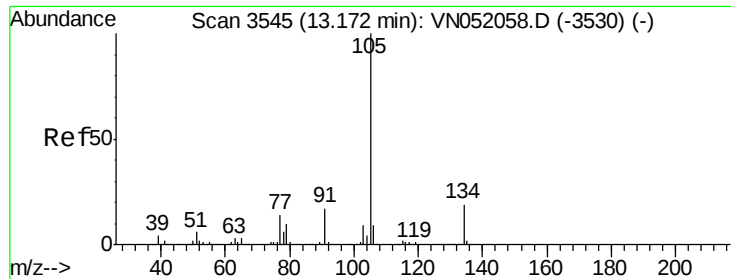
MMDadoda
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#84
1,2,4-Trimethylbenzene
Concen: 21.435 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. 0.00 min
Lab File: VN052064.D
Acq: 30 Oct 2018 15:10

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	261432		
120	44.1	21.9	65.5	





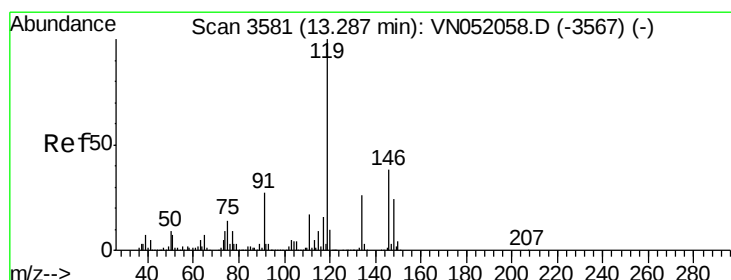
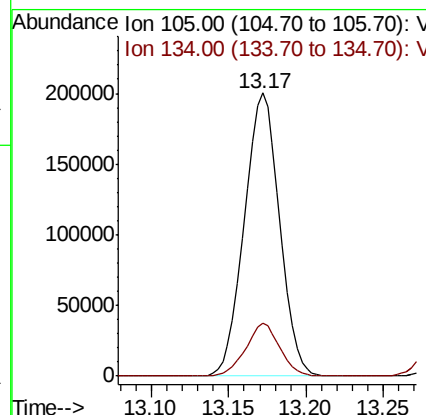
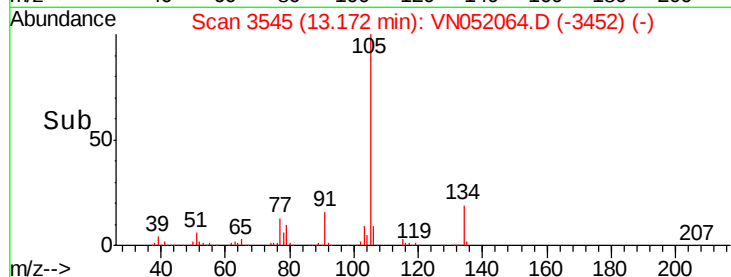
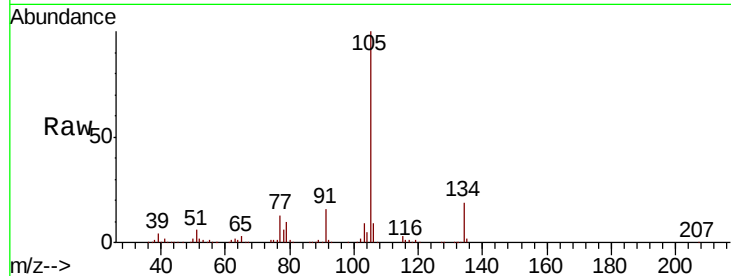
#85
 sec-Butylbenzene
 Concen: 21.556 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. 0.00 min
 Lab File: VN052064.D
 Acq: 30 Oct 2018 15:10

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1030WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
105	100	316958		
134	18.1	9.1	27.3	

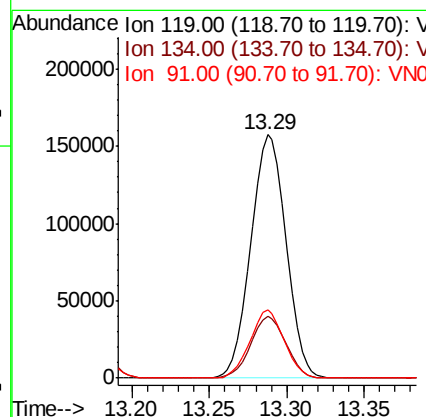
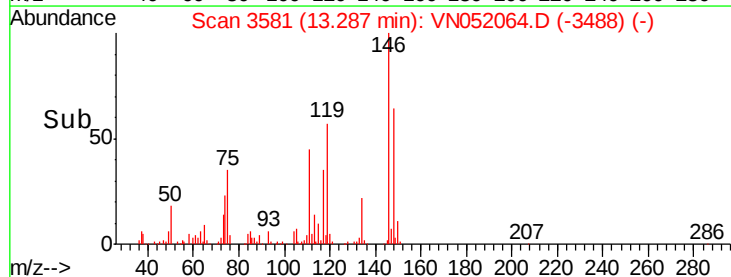
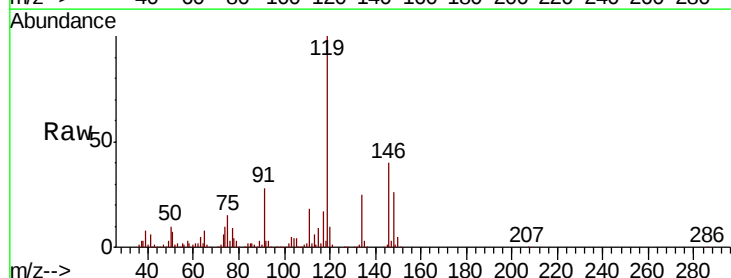
Manual Integrations
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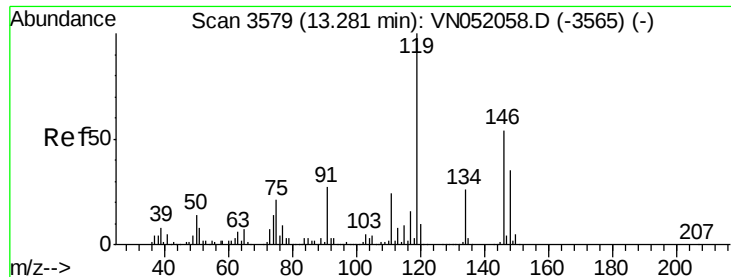
MMDadoda
 11/1/2018 11:48:22 AM



#86
 p-Isopropyltoluene
 Concen: 20.872 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. 0.00 min
 Lab File: VN052064.D
 Acq: 30 Oct 2018 15:10

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	249935		
134	25.3	12.8	38.3	
91	27.2	13.4	40.2	





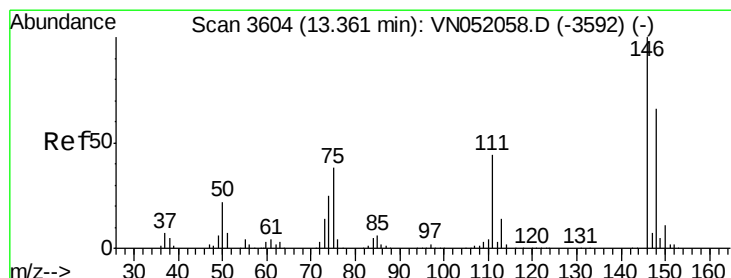
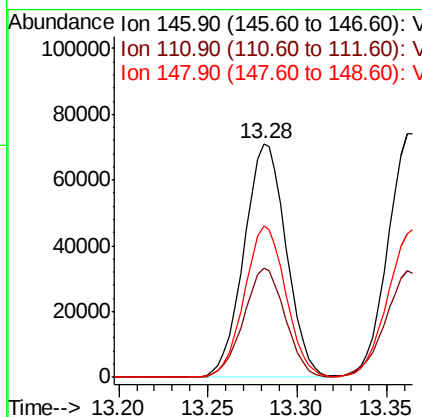
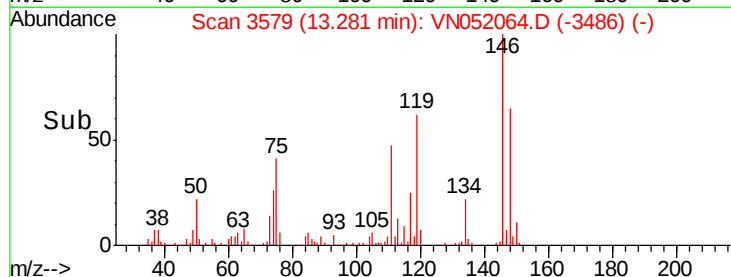
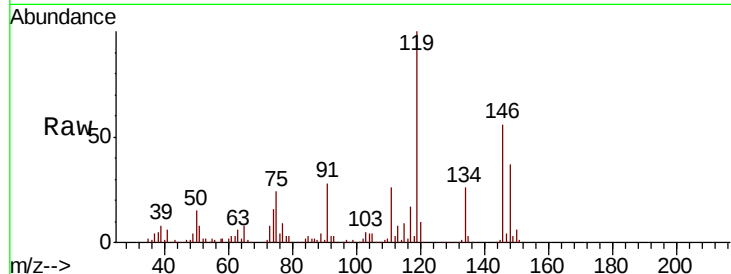
#87
 1,3-Dichlorobenzene
 Concen: 20.515 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. 0.00 min
 Lab File: VN052064.D
 Acq: 30 Oct 2018 15:10

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1030WBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	45.9	22.9	68.8
148	63.6	31.8	95.4

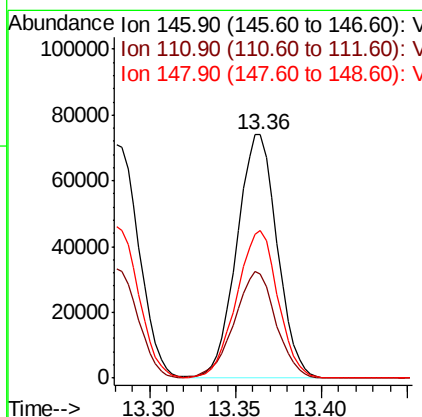
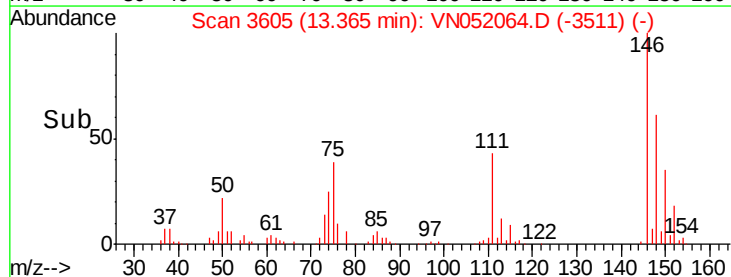
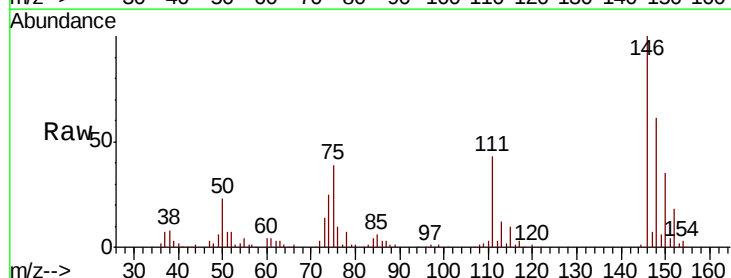
Manual Integrations
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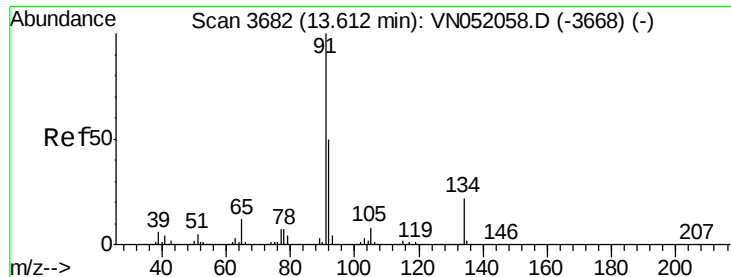
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#88
 1,4-Dichlorobenzene
 Concen: 20.952 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN052064.D
 Acq: 30 Oct 2018 15:10

Tgt Ion	Ratio	Lower	Upper
146	100		
111	45.0	21.9	65.8
148	62.0	32.6	98.0





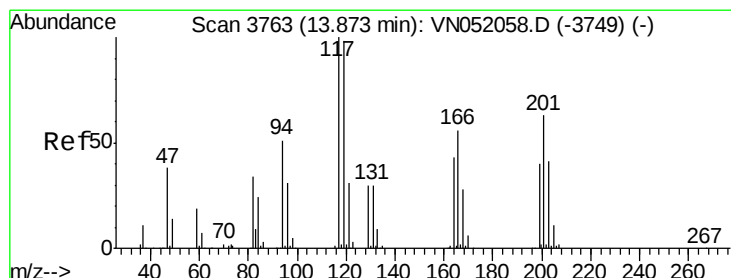
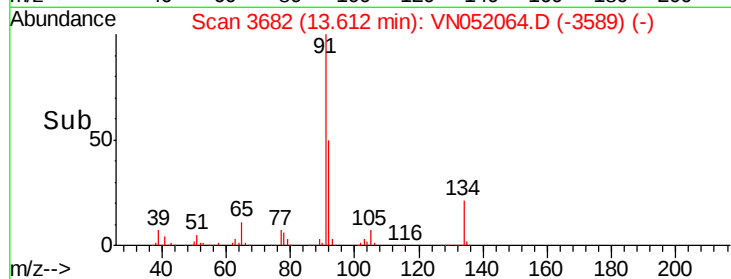
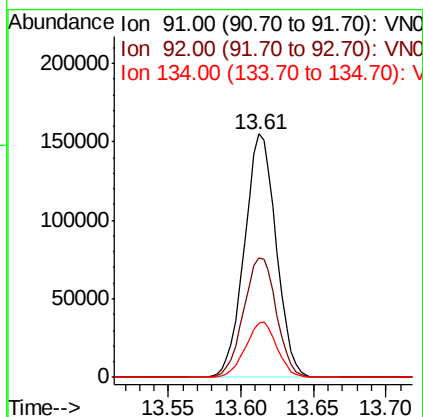
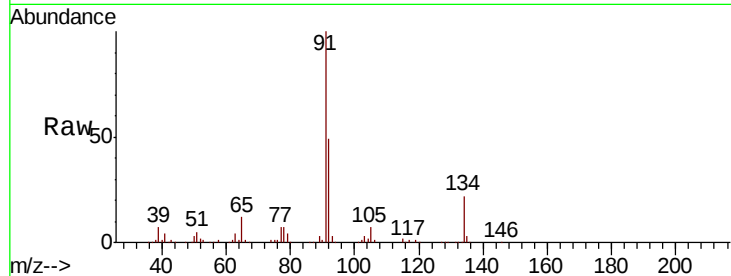
#89
n-Butylbenzene
Concen: 20.680 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. 0.00 min
Lab File: VN052064.D
Acq: 30 Oct 2018 15:10

Instrument :
MSVOA_N
ClientSampleId :
VN1030WBSD01

Tot Ion	Ratio	Lower	Upper
91	100		
92	50.8	25.3	75.8
134	22.3	11.2	33.5

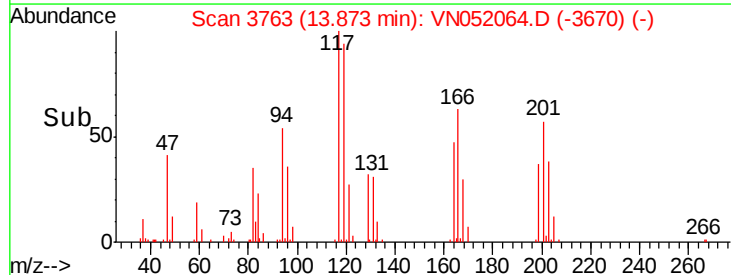
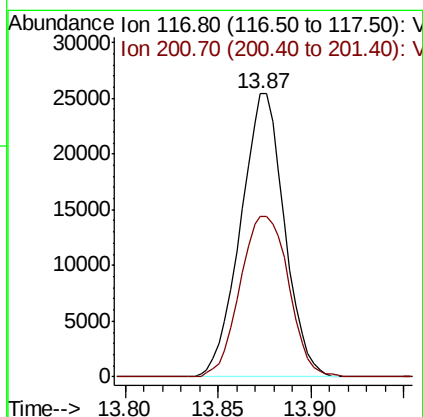
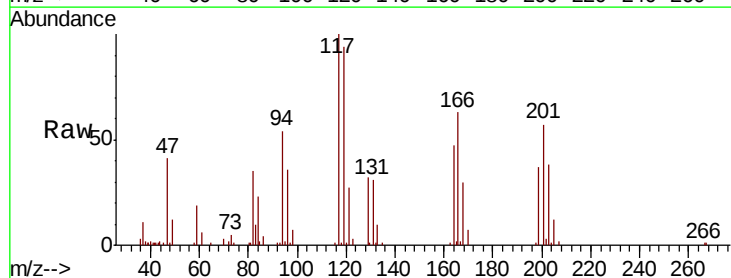
Manual Integrations
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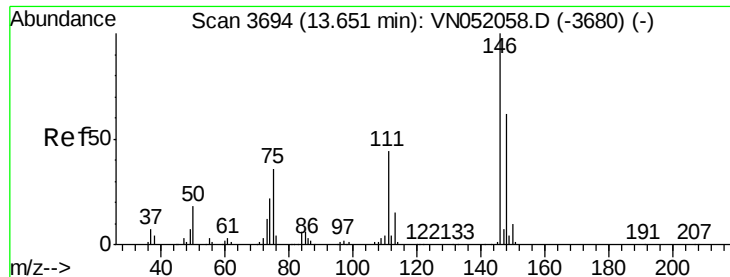
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#90
Hexachloroethane
Concen: 20.364 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. 0.00 min
Lab File: VN052064.D
Acq: 30 Oct 2018 15:10

Tgt Ion	Ratio	Lower	Upper
117	100		
201	63.0	31.1	93.5





#91

1,2-Dichlorobenzene

Concen: 21.472 ug/l

RT: 13.65 min Scan# 3694

Delta R.T. 0.00 min

Lab File: VN052064.D

Acq: 30 Oct 2018 15:10

Instrument :

MSVOA_N

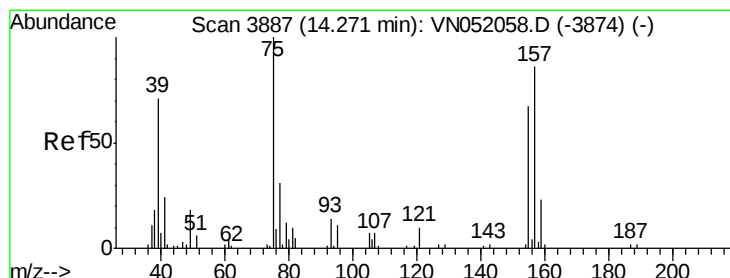
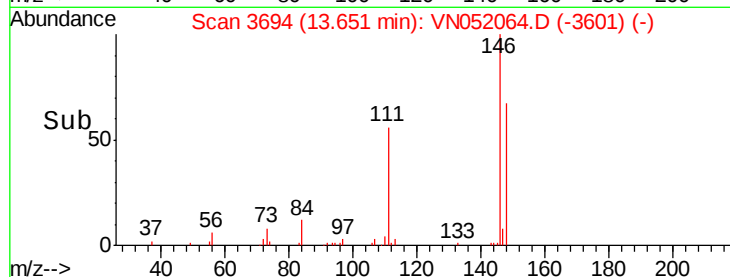
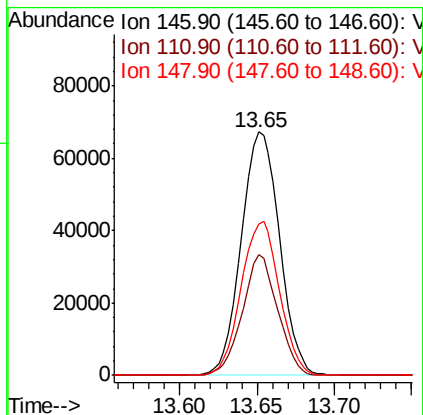
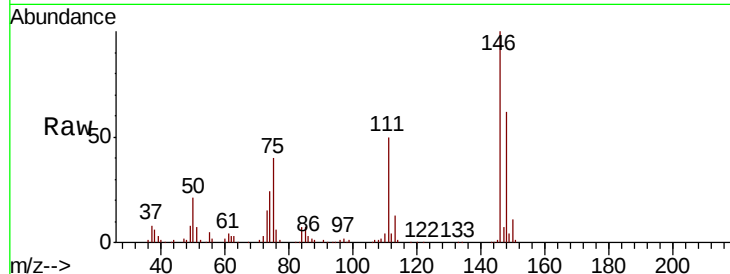
ClientSampleId :

VN1030WBSD01

Tot Ion:	146	Resp:	115987
Ion Ratio	Lower	Upper	
146	100		
111	45.8	22.5	67.5
148	63.3	30.9	92.8

Manual Integrations
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11/1/2018 11:48:22 AM



#92

1,2-Dibromo-3-Chloropropane

Concen: 20.907 ug/l

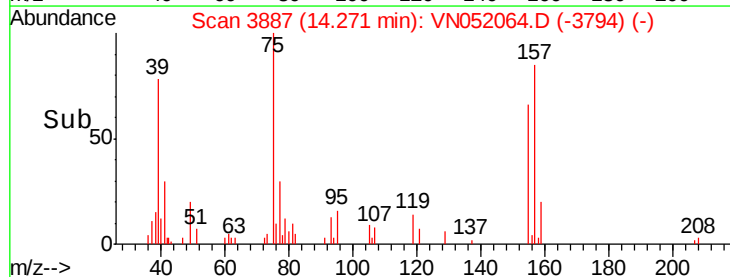
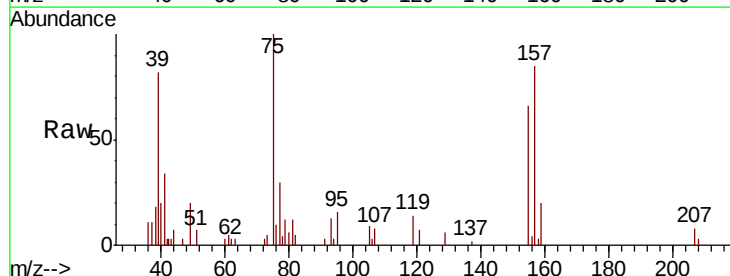
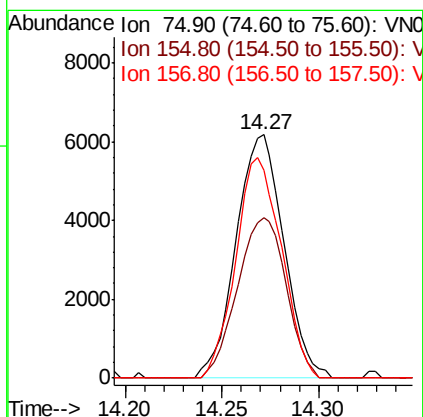
RT: 14.27 min Scan# 3887

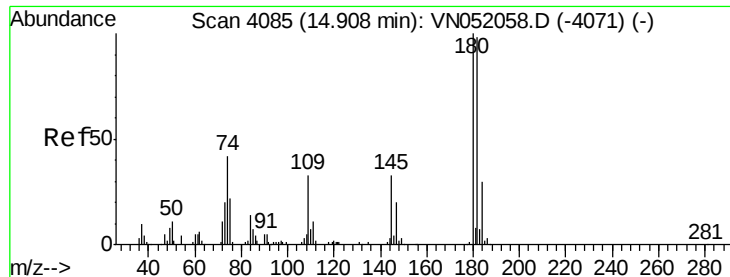
Delta R.T. 0.00 min

Lab File: VN052064.D

Acq: 30 Oct 2018 15:10

Tgt Ion:	75	Resp:	10597
Ion Ratio	Lower	Upper	
75	100		
155	67.2	34.0	102.0
157	86.5	42.1	126.4





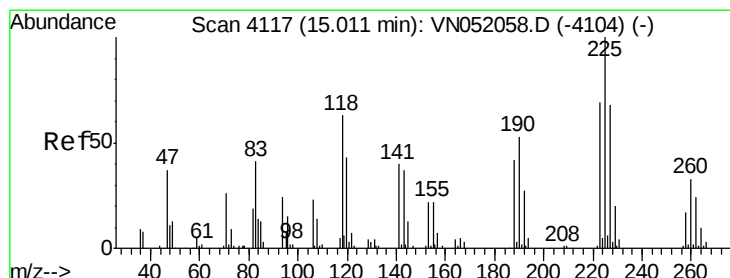
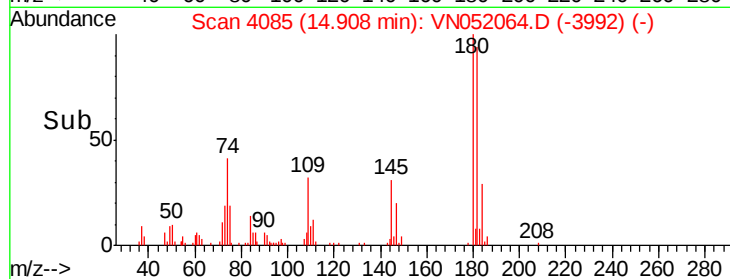
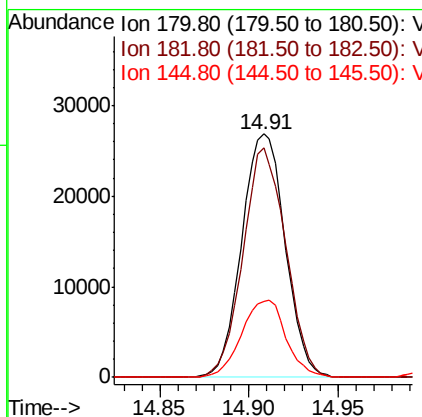
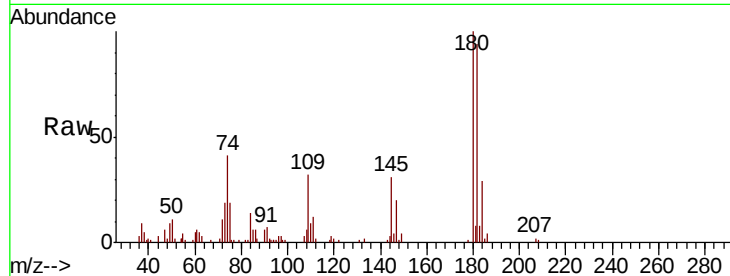
#93
 1,2,4-Trichlorobenzene
 Concen: 22.669 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN052064.D
 Acq: 30 Oct 2018 15:10

Instrument :
 MSVOA_N
 ClientSampled :
 VN1030WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	93.0	49.1	147.4	
145	32.5	16.4	49.2	

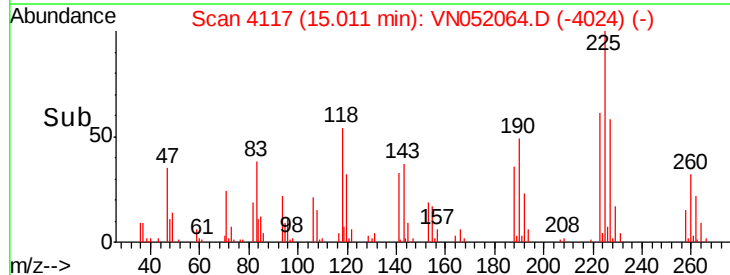
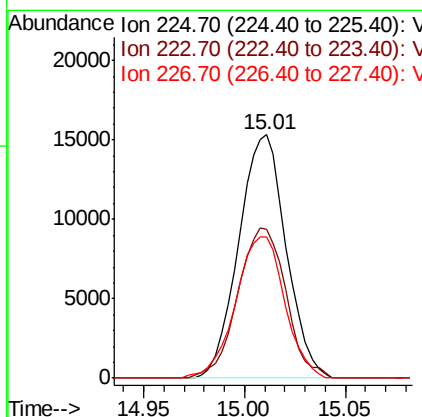
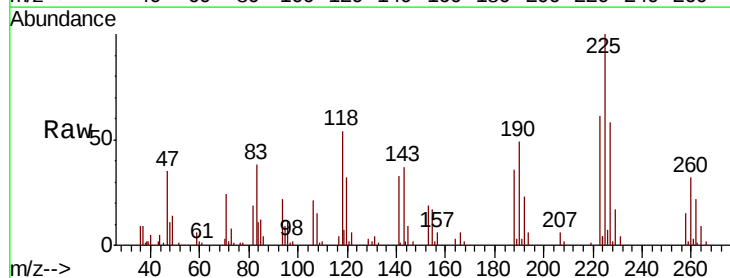
Manual Integrations
 APPROVED

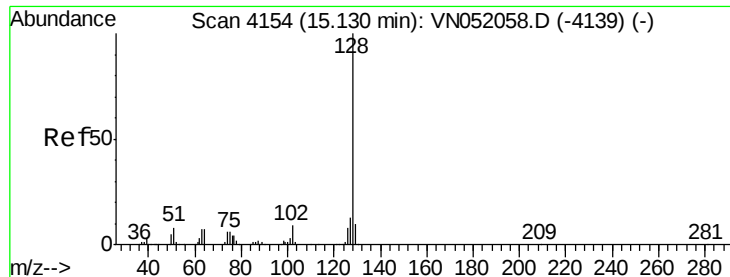
MMDadoda
 11/1/2018 11:48:22 AM



#94
 Hexachlorobutadiene
 Concen: 22.366 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN052064.D
 Acq: 30 Oct 2018 15:10

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	62.9	33.1	99.3	
227	60.2	32.6	97.8	





#95

Naphthalene

Concen: 22.232 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN052064.D

Acq: 30 Oct 2018 15:10

Instrument :

MSVOA_N

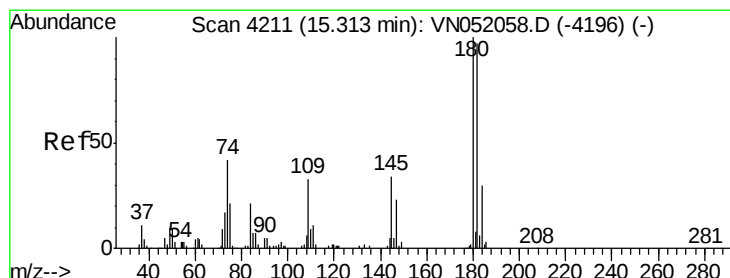
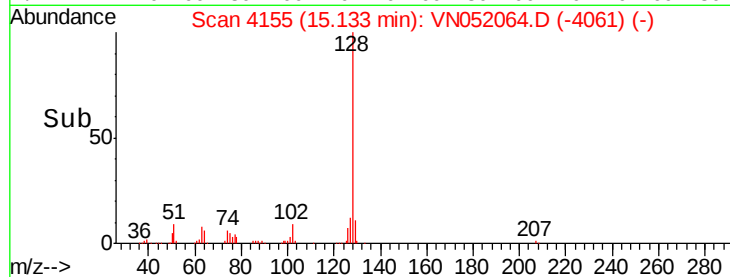
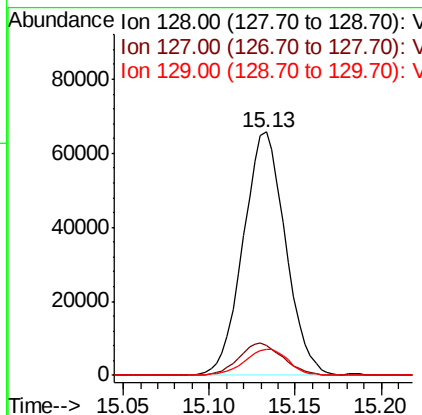
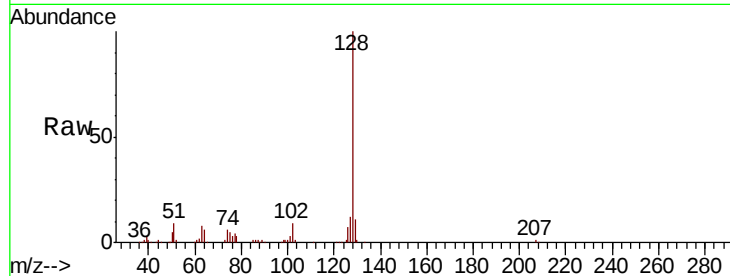
ClientSampleId :

VN1030WBSD01

Tot Ion:	128	Resp:	112168
Ion Ratio	Lower	Upper	
128	100		
127	13.8	10.5	15.7
129	11.1	8.6	12.8

Manual Integrations
APPROVED

MMDadoda
11/1/2018 11:48:22 AM



#96

1,2,3-Trichlorobenzene

Concen: 22.603 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN052064.D

Acq: 30 Oct 2018 15:10

Tgt Ion:	180	Resp:	39235
Ion Ratio	Lower	Upper	
180	100		
182	93.3	47.2	141.6
145	34.0	16.6	49.7

