

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN111518\
 Data File : VN052332.D
 Acq On : 15 Nov 2018 10:23
 Operator : MD\SY
 Sample : VN1115WBS01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1115WBS01

Manual Integrations
 APPROVED

MMDadoda
 11/16/2018 4:06:52 PM

Quant Time: Nov 16 03:03:24 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N111418W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 15 03:02:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	273992	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	450217	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	403612	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	176555	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	190075	49.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.24%	
35) Dibromofluoromethane	7.59	113	149176	51.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.74%	
50) Toluene-d8	10.09	98	571563	50.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.06%	
62) 4-Bromofluorobenzene	12.40	95	188706	50.21	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.42%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	56424	19.43	ug/l	99
3) Chloromethane	2.06	50	76920	19.06	ug/l	100
4) Vinyl Chloride	2.19	62	63712	18.27	ug/l	99
5) Bromomethane	2.58	94	38380	17.65	ug/l	97
6) Chloroethane	2.71	64	34916	17.71	ug/l	98
7) Trichlorofluoromethane	3.02	101	92712	19.21	ug/l	99
8) Diethyl Ether	3.41	74	33129	18.01	ug/l	93
9) 1,1,2-Trichlorotrifluoroet	3.77	101	56898	18.67	ug/l	99
10) Methyl Iodide	3.95	142	67741	16.55	ug/l	97
11) Tert butyl alcohol	4.77	59	18212m	89.11	ug/l	
12) 1,1-Dichloroethene	3.74	96	51159	18.14	ug/l	94
13) Acrolein	3.61	56	23118	90.24	ug/l	99
14) Allyl chloride	4.33	41	103883	17.94	ug/l	99
15) Acrylonitrile	4.99	53	105656	90.54	ug/l	99
16) Acetone	3.82	43	96574	90.64	ug/l	94
17) Carbon Disulfide	4.06	76	145269	17.96	ug/l	100
18) Methyl Acetate	4.33	43	53214	18.10	ug/l	96
19) Methyl tert-butyl Ether	5.04	73	148419	18.31	ug/l	95
20) Methylene Chloride	4.55	84	64244	19.39	ug/l	98
21) trans-1,2-Dichloroethene	5.05	96	53755	17.70	ug/l	97
22) Diisopropyl ether	5.95	45	222681	18.84	ug/l	96
23) Vinyl Acetate	5.90	43	749497	93.50	ug/l	100
24) 1,1-Dichloroethane	5.85	63	116423	18.37	ug/l	99
25) 2-Butanone	6.83	43	137034	91.37	ug/l	100
26) 2,2-Dichloropropane	6.83	77	85348	18.32	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	63729	18.03	ug/l	97
28) Bromochloromethane	7.20	49	63191	19.40	ug/l	97
29) Tetrahydrofuran	7.21	42	88812	90.14	ug/l	99
30) Chloroform	7.37	83	117129	19.40	ug/l	95
31) Cyclohexane	7.66	56	112080	18.38	ug/l	95
32) 1,1,1-Trichloroethane	7.57	97	92947	18.07	ug/l	98
36) 1,1-Dichloropropene	7.79	75	87210	19.33	ug/l	99
37) Ethyl Acetate	6.93	43	61391	18.75	ug/l	98
38) Carbon Tetrachloride	7.78	117	82011	19.78	ug/l	98

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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N111418W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 15 03:02:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	99276	19.27	ug/l	96
40) Benzene	8.04	78	246296	19.11	ug/l	99
41) Methacrylonitrile	7.17	41	31120	19.54	ug/l #	100
42) 1,2-Dichloroethane	8.12	62	87436	19.02	ug/l	100
43) Isopropyl Acetate	8.16	43	111564	17.65	ug/l #	86
44) Trichloroethene	8.83	130	61428	19.34	ug/l	98
45) 1,2-Dichloropropane	9.12	63	70200	19.19	ug/l	96
46) Dibromomethane	9.21	93	38947	18.39	ug/l	97
47) Bromodichloromethane	9.40	83	84553	19.45	ug/l	96
48) Methyl methacrylate	9.20	41	56839	17.73	ug/l	98
49) 1,4-Dioxane	9.20	88	9462	384.39	ug/l	95
51) 4-Methyl-2-Pentanone	9.98	43	302394	95.06	ug/l	99
52) Toluene	10.16	92	148236	19.22	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	80744	18.42	ug/l	98
54) cis-1,3-Dichloropropene	9.84	75	93991	18.81	ug/l	98
55) 1,1,2-Trichloroethane	10.56	97	51280	18.34	ug/l	98
56) Ethyl methacrylate	10.43	69	69108	18.80	ug/l	99
57) 1,3-Dichloropropane	10.71	76	94386	19.06	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.69	63	210437	100.53	ug/l	98
59) 2-Hexanone	10.75	43	205015	93.70	ug/l	99
60) Dibromochloromethane	10.90	129	55633	18.39	ug/l	100
61) 1,2-Dibromoethane	11.00	107	51322	18.43	ug/l	97
64) Tetrachloroethene	10.63	164	56344	19.64	ug/l	97
65) Chlorobenzene	11.43	112	160504	18.81	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	55851	19.20	ug/l	99
67) Ethyl Benzene	11.51	91	285197	19.26	ug/l	99
68) m/p-Xylenes	11.62	106	210598	38.93	ug/l	99
69) o-Xylene	11.95	106	104999	20.25	ug/l	95
70) Styrene	11.96	104	160961	19.38	ug/l	99
71) Bromoform	12.13	173	30635	17.83	ug/l #	99
73) Isopropylbenzene	12.25	105	277517	19.55	ug/l	98
74) N-amyl acetate	12.07	43	93540	18.50	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.50	83	63730	18.57	ug/l	98
76) 1,2,3-Trichloropropane	12.55	75	59640m	19.91	ug/l	
77) Bromobenzene	12.53	156	61165	18.52	ug/l	100
78) n-propylbenzene	12.59	91	320761	19.32	ug/l	99
79) 2-Chlorotoluene	12.67	91	188588	19.45	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	226464	20.06	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	15478	16.76	ug/l	92
82) 4-Chlorotoluene	12.77	91	189499	19.07	ug/l	98
83) tert-Butylbenzene	12.99	119	195249	19.59	ug/l	96
84) 1,2,4-Trimethylbenzene	13.04	105	221567	19.55	ug/l	99
85) sec-Butylbenzene	13.17	105	270348	19.91	ug/l	100
86) p-Isopropyltoluene	13.29	119	225416	19.60	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	111560	19.02	ug/l	100
88) 1,4-Dichlorobenzene	13.36	146	108885	18.67	ug/l	99
89) n-Butylbenzene	13.61	91	195296	19.77	ug/l	99
90) Hexachloroethane	13.87	117	38445	18.87	ug/l	96
91) 1,2-Dichlorobenzene	13.65	146	108440	19.08	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.26	75	9352	18.48	ug/l	92

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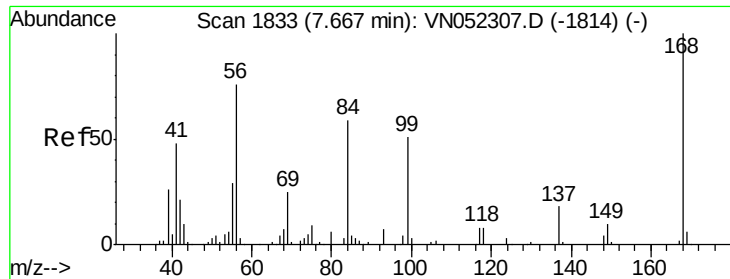
Manual Integrations
APPROVED

MMDadoda
11/16/2018 4:06:52 PM

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Quant Title : SW846 8260
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	43120	17.83	ug/l	97
94) Hexachlorobutadiene	15.01	225	25599	19.68	ug/l	98
95) Naphthalene	15.13	128	97294	17.36	ug/l	98
96) 1,2,3-Trichlorobenzene	15.31	180	41044	19.01	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN052332.D

Acq: 15 Nov 2018 10:23

Instrument :

MSVOA_N

ClientSampleId :

VN1115WBS01

Tgt Ion: 168 Resp: 273992

Ion Ratio Lower Upper

168 100

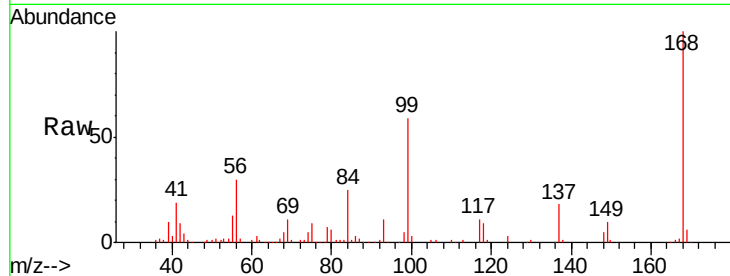
99 58.3 47.9 71.9

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

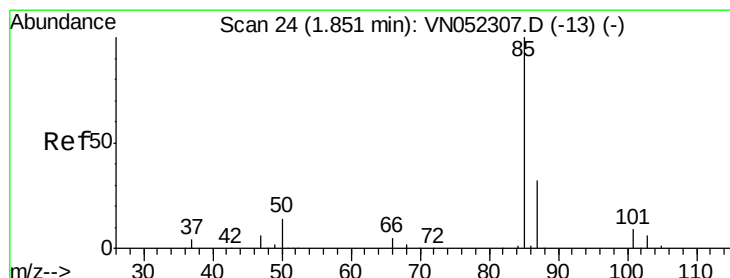
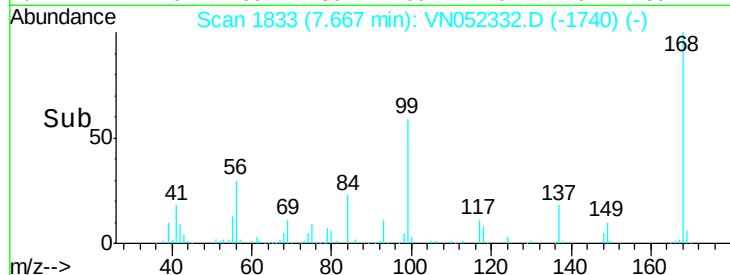
7.67

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 19.43 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN052332.D

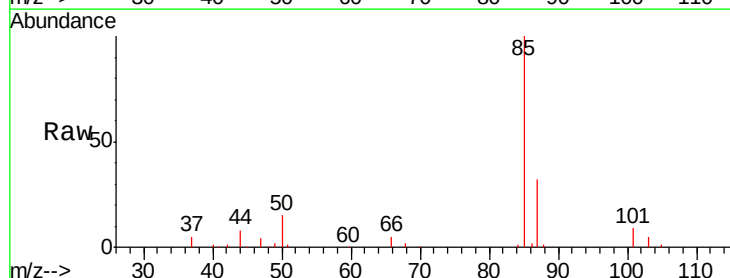
Acq: 15 Nov 2018 10:23

Tgt Ion: 85 Resp: 56424

Ion Ratio Lower Upper

85 100

87 32.2 15.9 47.6



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

1.85

40000

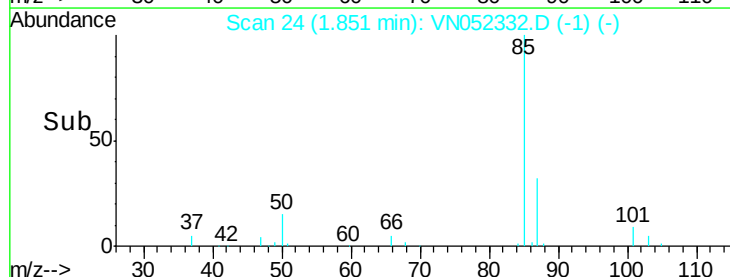
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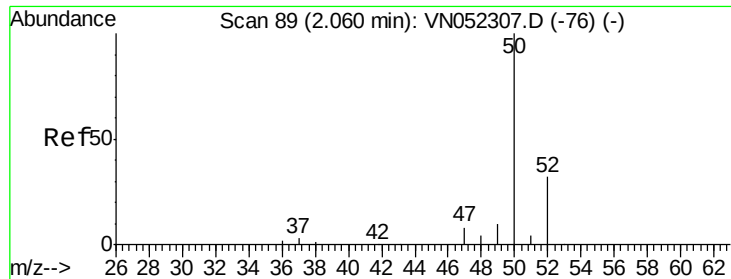
20000

10000

0

Time-->





#3

Chloromethane

Concen: 19.06 ug/l

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN052332.D

Acq: 15 Nov 2018 10:23

Instrument :

MSVOA_N

ClientSampleId :

VN1115WBS01

Tgt Ion: 50 Resp: 76920

Ion Ratio Lower Upper

50 100

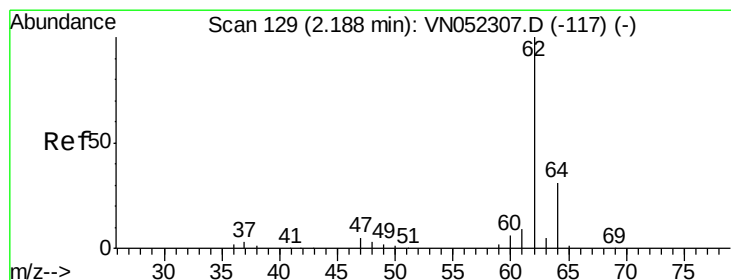
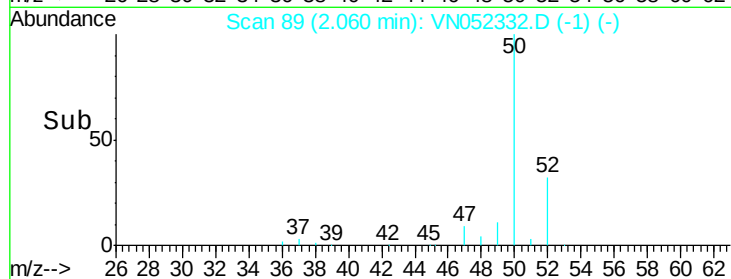
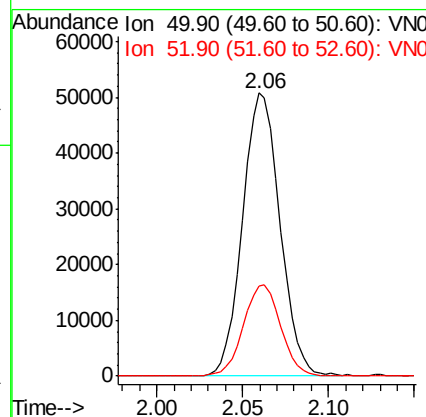
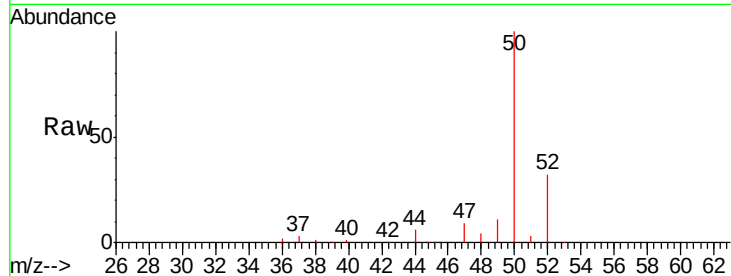
52 32.0 25.5 38.3

Manual Integrations

APPROVED

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11/16/2018 4:06:52 PM



#4

Vinyl Chloride

Concen: 18.27 ug/l

RT: 2.19 min Scan# 129

Delta R.T. 0.00 min

Lab File: VN052332.D

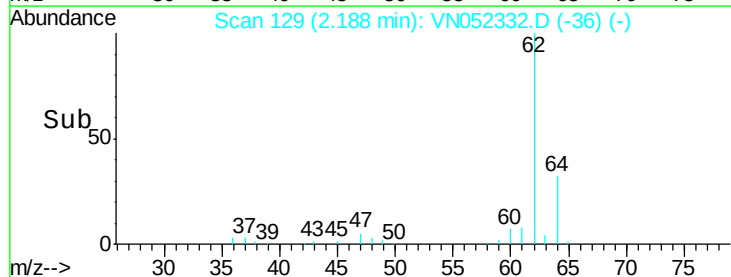
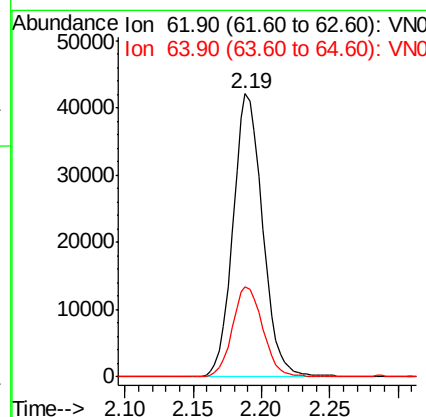
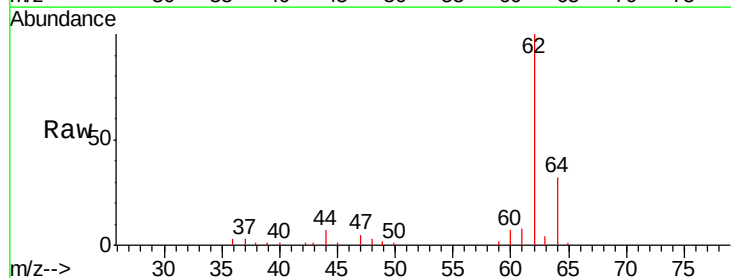
Acq: 15 Nov 2018 10:23

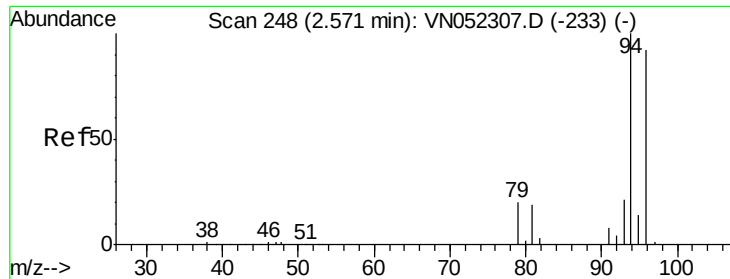
Tgt Ion: 62 Resp: 63712

Ion Ratio Lower Upper

62 100

64 32.0 25.2 37.8





#5

Bromomethane

Concen: 17.65 ug/l

RT: 2.58 min Scan# 250

Delta R.T. 0.01 min

Lab File: VN052332.D

Acq: 15 Nov 2018 10:23

Instrument :

MSVOA_N

ClientSampleId :

VN1115WBS01

Tgt Ion: 94 Resp: 38380

Ion Ratio Lower Upper

94 100

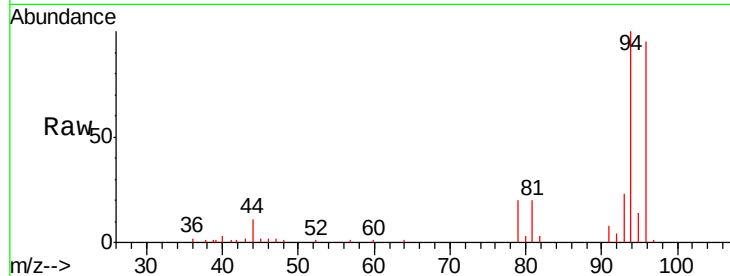
96 95.1 73.6 110.4

Manual Integrations

APPROVED

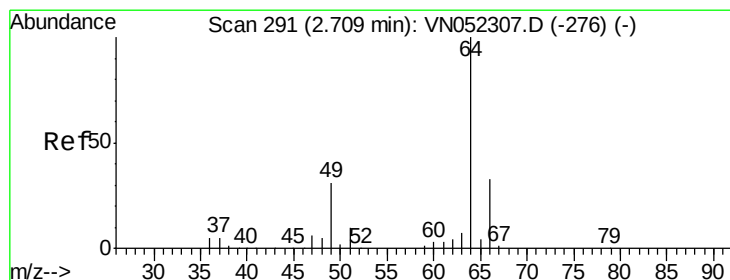
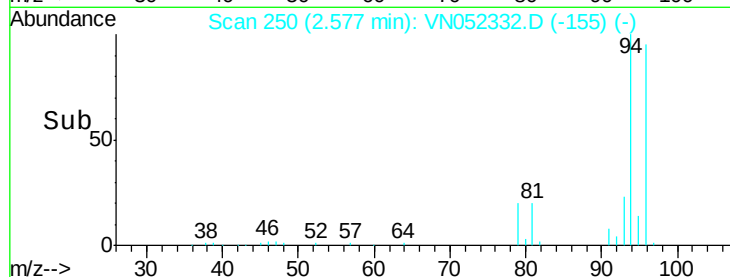
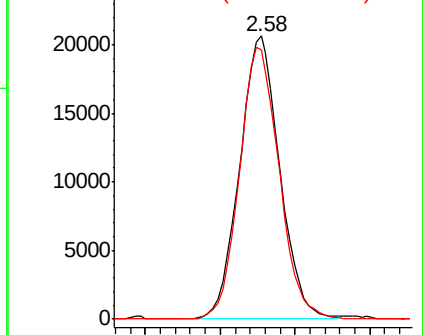
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Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 17.71 ug/l

RT: 2.71 min Scan# 291

Delta R.T. 0.00 min

Lab File: VN052332.D

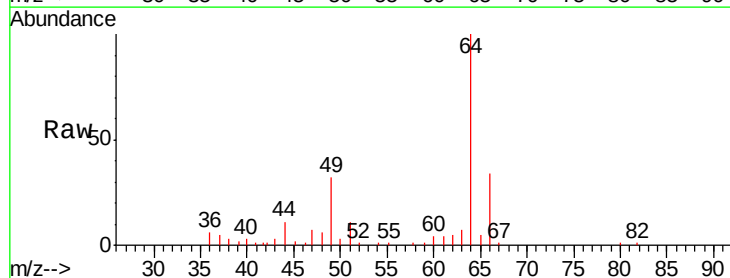
Acq: 15 Nov 2018 10:23

Tgt Ion: 64 Resp: 34916

Ion Ratio Lower Upper

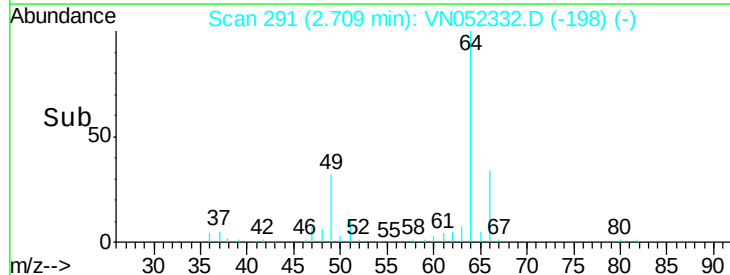
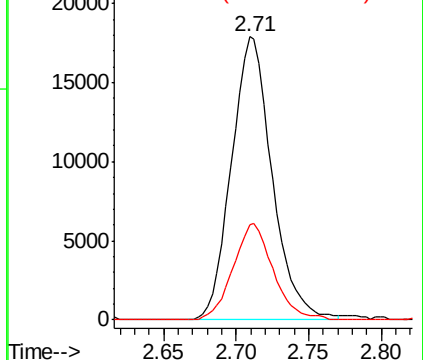
64 100

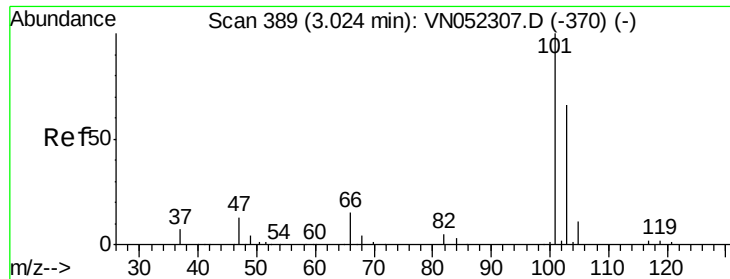
66 33.6 26.2 39.2



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#7

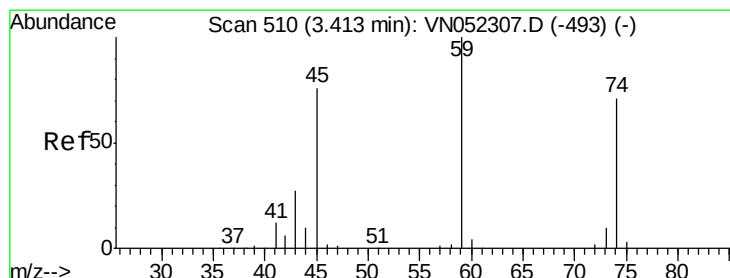
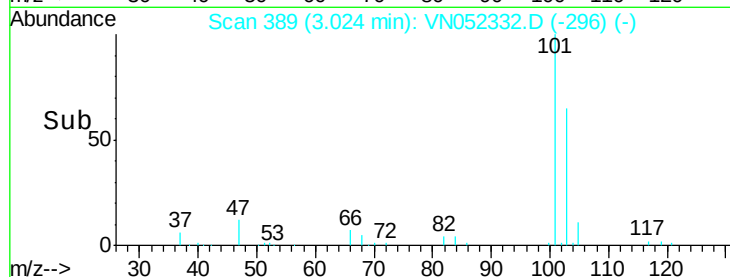
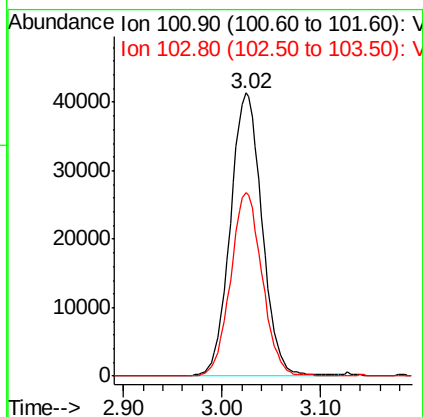
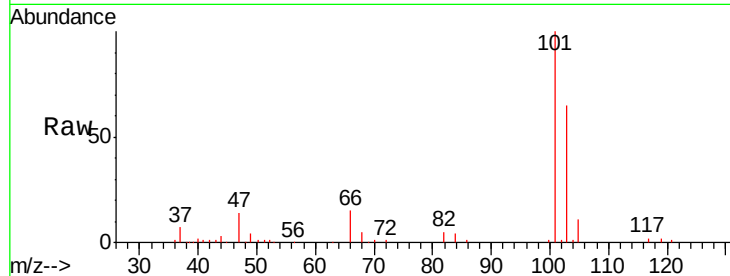
Trichlorofluoromethane
Concen: 19.21 ug/l
RT: 3.02 min Scan# 389
Delta R.T. 0.00 min
Lab File: VN052332.D
Acq: 15 Nov 2018 10:23

Instrument :
MSVOA_N
ClientSampleId :
VN1115WBS01

Tgt Ion: 101 Resp: 92712
Ion Ratio Lower Upper
101 100
103 64.9 52.8 79.2

Manual Integrations
APPROVED

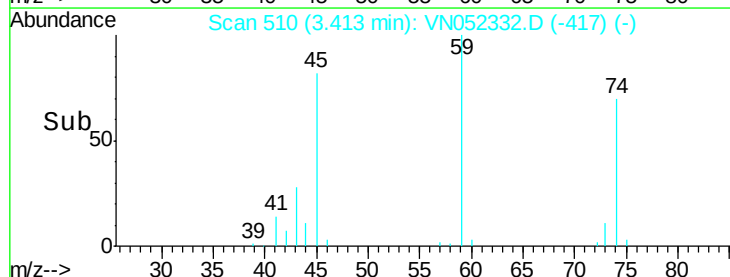
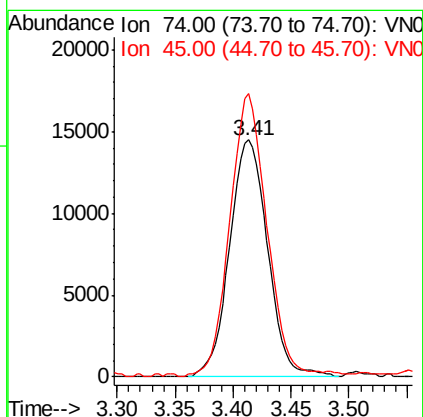
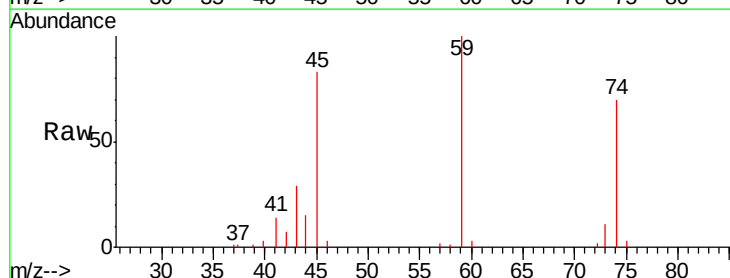
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11/16/2018 4:06:52 PM

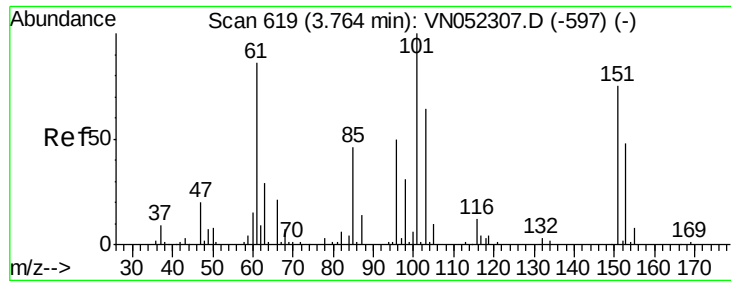


#8

Diethyl Ether
Concen: 18.01 ug/l
RT: 3.41 min Scan# 510
Delta R.T. 0.00 min
Lab File: VN052332.D
Acq: 15 Nov 2018 10:23

Tgt Ion: 74 Resp: 33129
Ion Ratio Lower Upper
74 100
45 116.2 54.3 162.9





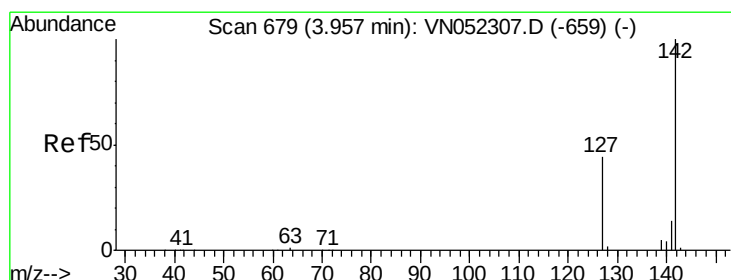
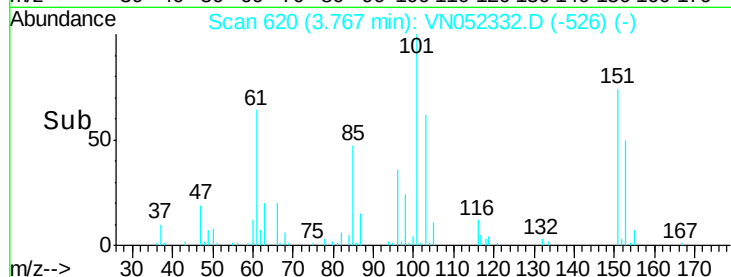
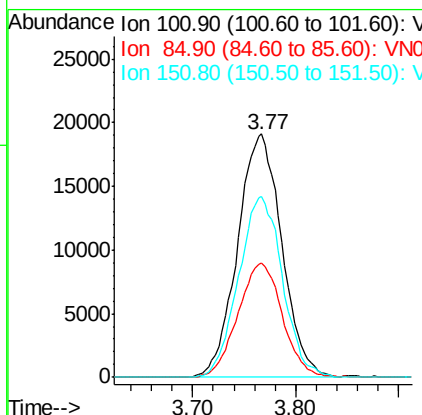
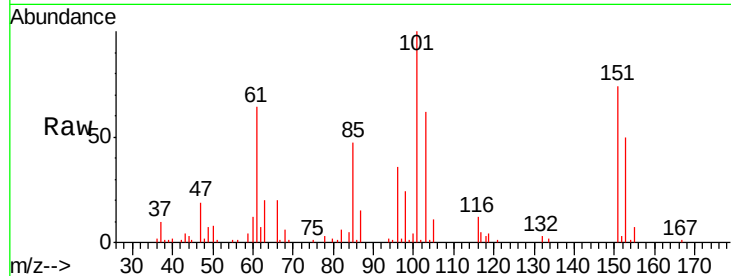
#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 18.67 ug/l
 RT: 3.77 min Scan# 620
 Delta R.T. 0.00 min
 Lab File: VN052332.D
 Acq: 15 Nov 2018 10:23

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1115WBS01

Tgt Ion	Ratio	Lower	Upper
101	100		
85	47.1	37.4	56.0
151	73.8	58.6	88.0

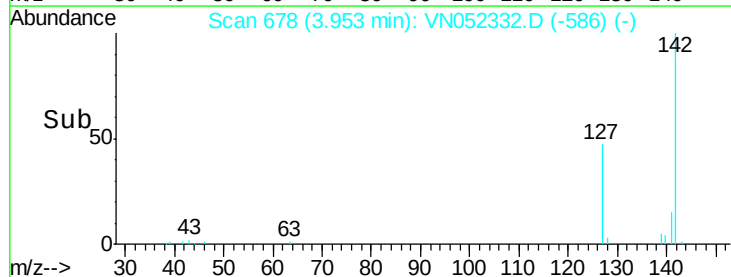
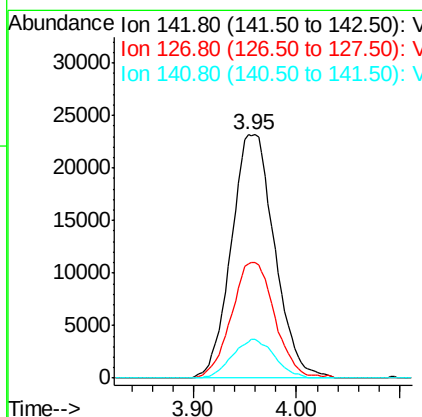
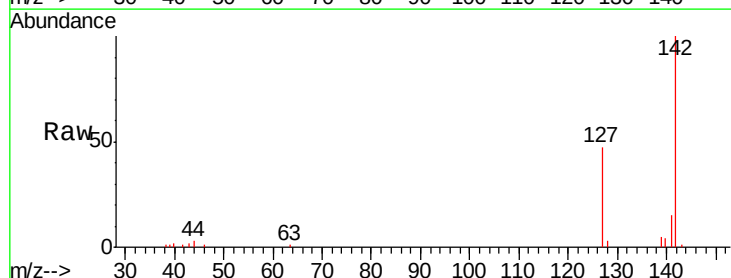
Manual Integrations
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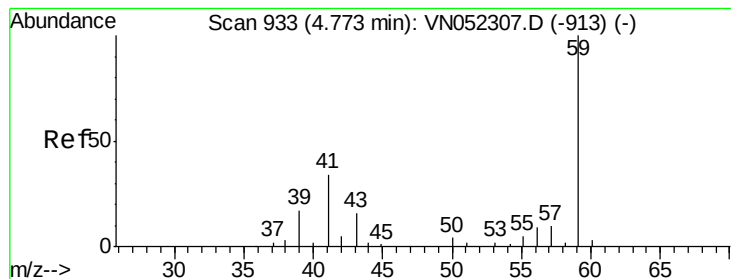
MMDadoda
 11/16/2018 4:06:52 PM



#10
 Methyl Iodide
 Concen: 16.55 ug/l
 RT: 3.95 min Scan# 678
 Delta R.T. -0.00 min
 Lab File: VN052332.D
 Acq: 15 Nov 2018 10:23

Tgt Ion	Ratio	Lower	Upper
142	100		
127	47.5	36.3	54.5
141	15.5	11.4	17.2





#11

Tert butyl alcohol

Concen: 89.11 ug/l m

RT: 4.77 min Scan# 931

Delta R.T. -0.01 min

Lab File: VN052332.D

Acq: 15 Nov 2018 10:23

Instrument :

MSVOA_N

ClientSampleId :

VN1115WBS01

Tgt Ion: 59 Resp: 18212

Ion Ratio Lower Upper

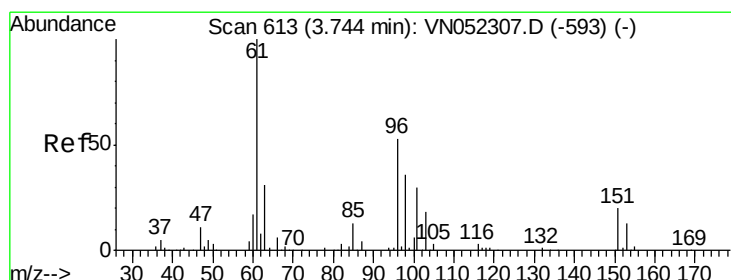
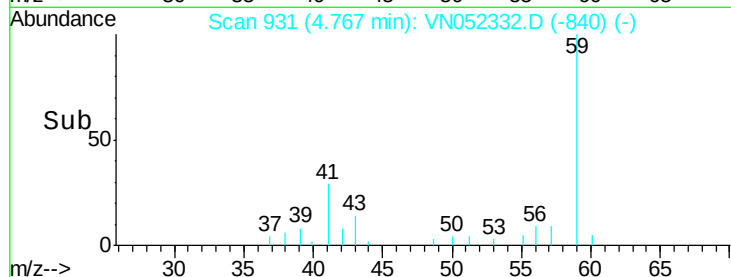
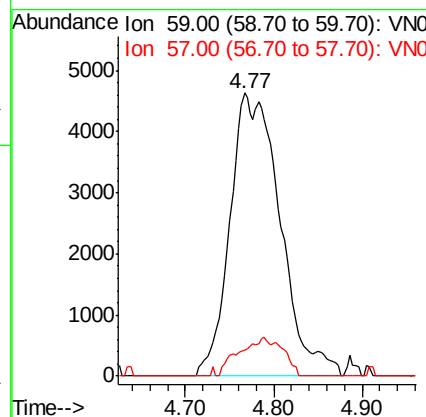
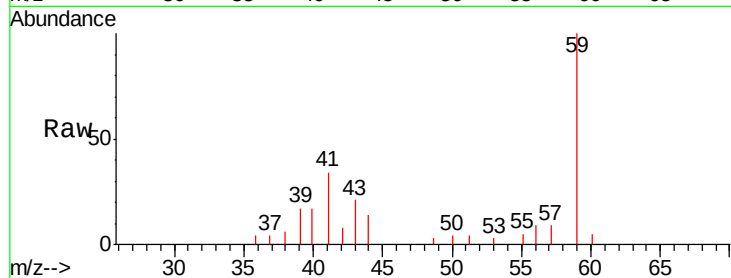
59 100

57 0.0 8.5 12.7#

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#12

1,1-Dichloroethene

Concen: 18.14 ug/l

RT: 3.74 min Scan# 612

Delta R.T. -0.00 min

Lab File: VN052332.D

Acq: 15 Nov 2018 10:23

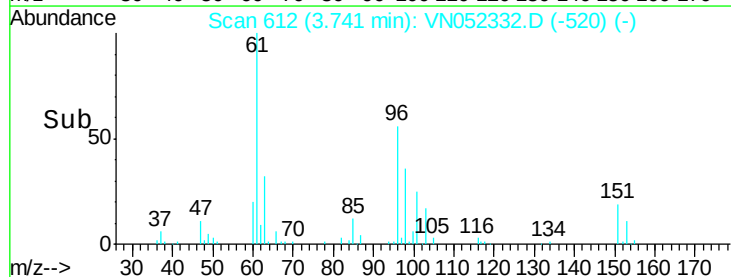
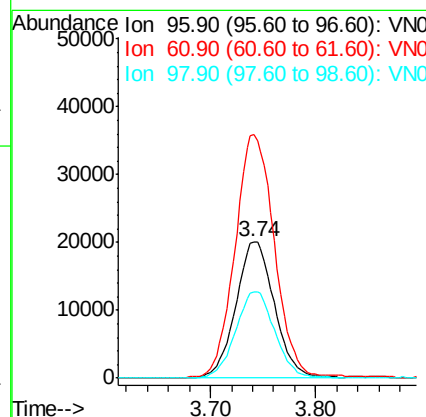
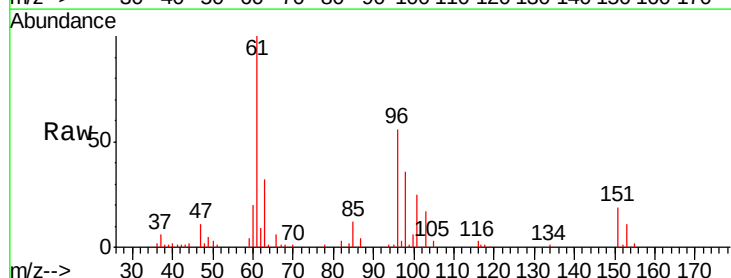
Tgt Ion: 96 Resp: 51159

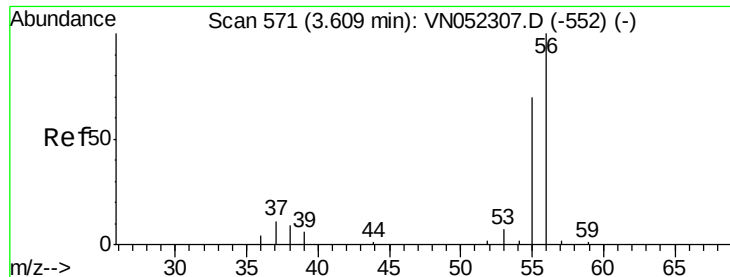
Ion Ratio Lower Upper

96 100

61 177.1 149.6 224.4

98 63.3 54.2 81.2





#13

Acrolein

Concen: 90.24 ug/l

RT: 3.61 min Scan# 570

Delta R.T. -0.00 min

Lab File: VN052332.D

Acq: 15 Nov 2018 10:23

Instrument :

MSVOA_N

ClientSampleId :

VN1115WBS01

Tgt Ion: 56 Resp: 23118

Ion Ratio Lower Upper

56 100

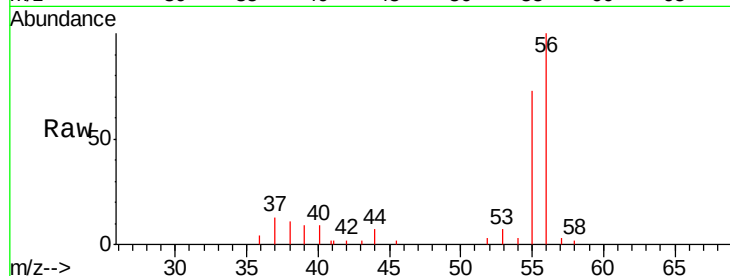
55 72.5 57.6 86.4

Manual Integrations

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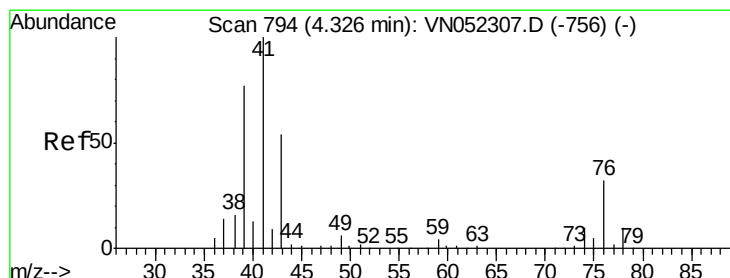
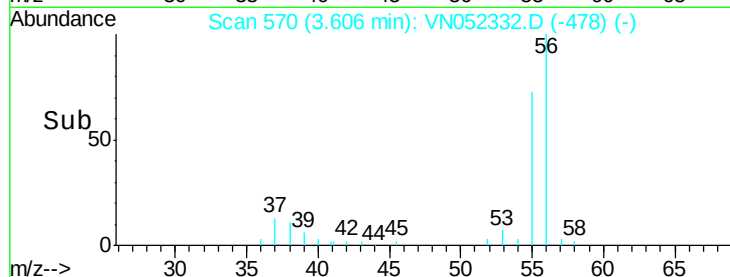
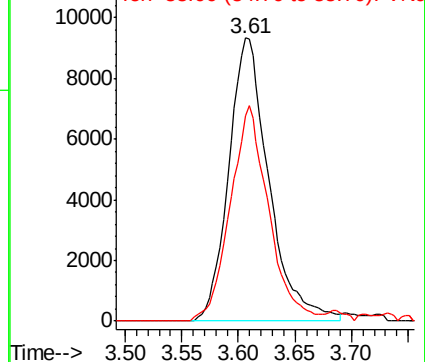
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Abundance Ion 56.00 (55.70 to 56.70): VNO

Ion 55.00 (54.70 to 55.70): VNO



#14

Allyl chloride

Concen: 17.94 ug/l

RT: 4.33 min Scan# 794

Delta R.T. 0.00 min

Lab File: VN052332.D

Acq: 15 Nov 2018 10:23

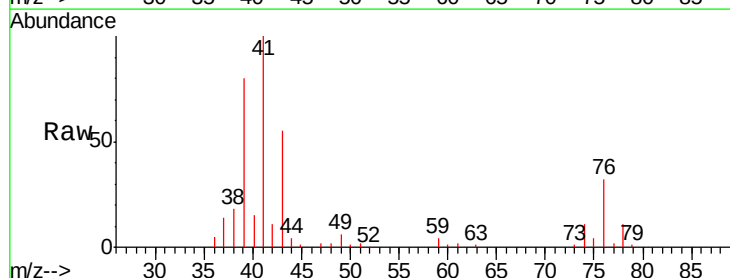
Tgt Ion: 41 Resp: 103883

Ion Ratio Lower Upper

41 100

39 73.2 59.1 88.7

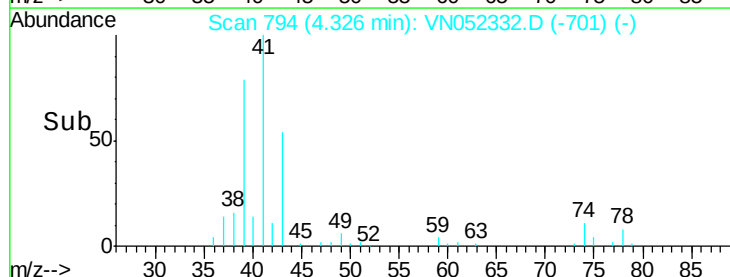
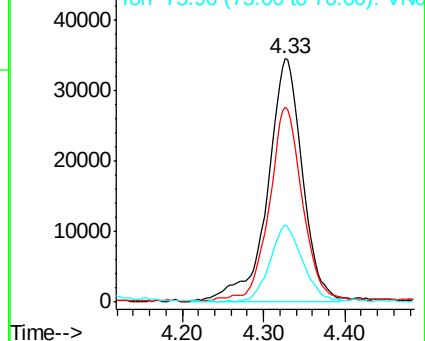
76 29.7 24.1 36.1

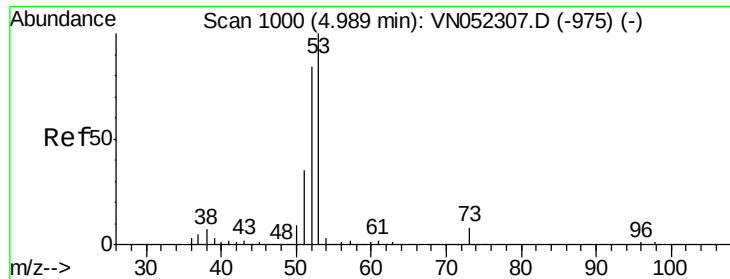


Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

Ion 75.90 (75.60 to 76.60): VNO





#15

Acrylonitrile

Concen: 90.54 ug/l

RT: 4.99 min Scan# 999

Delta R.T. -0.00 min

Lab File: VN052332.D

Acq: 15 Nov 2018 10:23

Instrument :

MSVOA_N

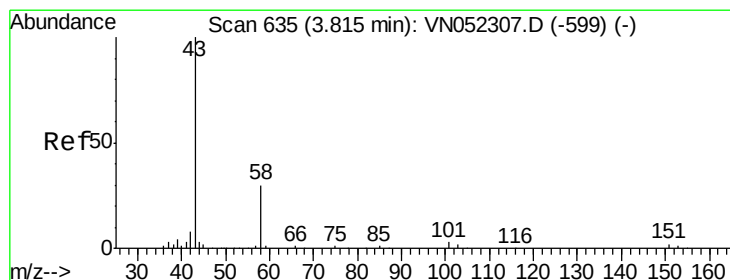
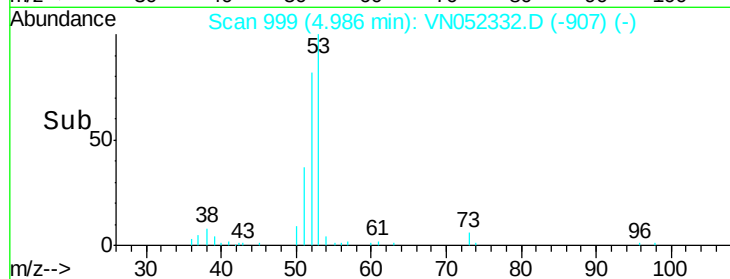
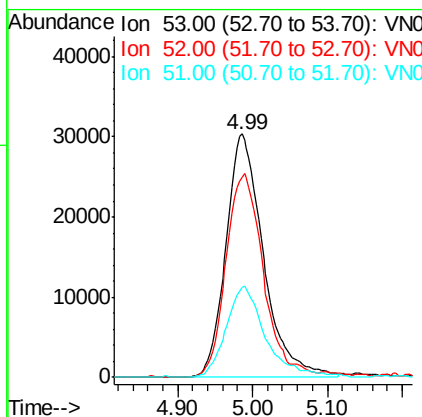
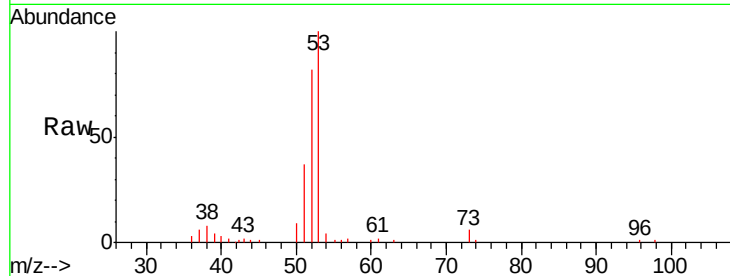
ClientSampleId :

VN1115WBS01

Tgt Ion:	53	Resp:	105656
Ion	Ratio	Lower	Upper
53	100		
52	83.3	67.5	101.3
51	37.6	29.9	44.9

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#16

Acetone

Concen: 90.64 ug/l

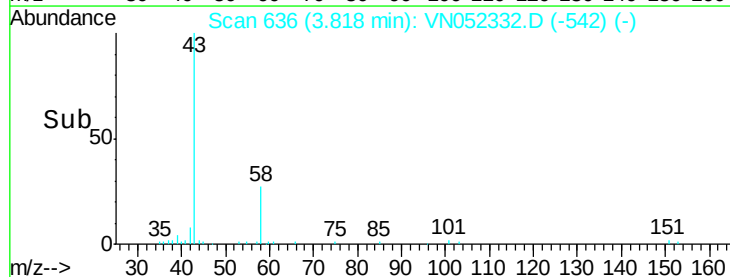
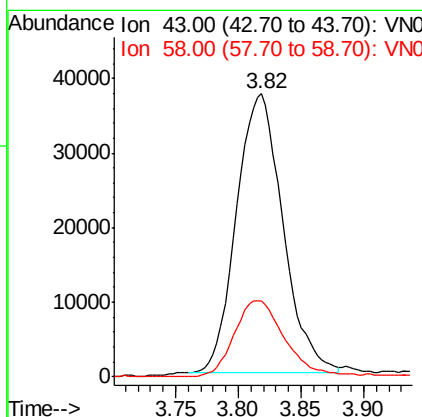
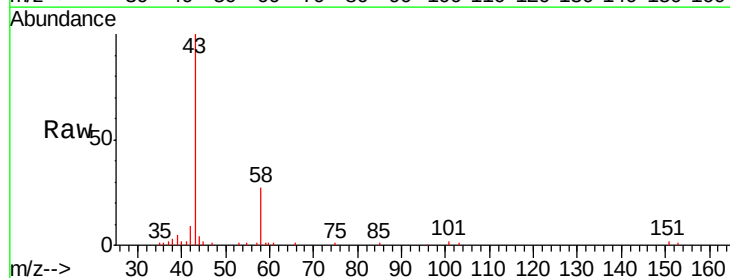
RT: 3.82 min Scan# 636

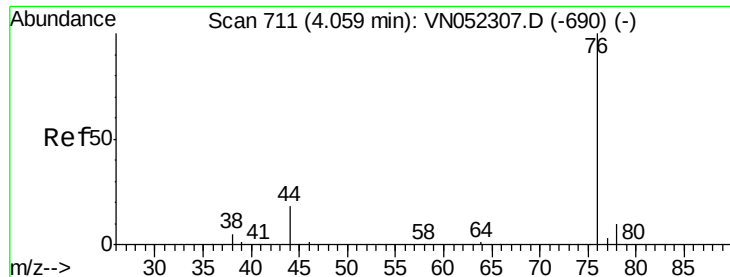
Delta R.T. 0.00 min

Lab File: VN052332.D

Acq: 15 Nov 2018 10:23

Tgt Ion:	43	Resp:	96574
Ion	Ratio	Lower	Upper
43	100		
58	27.3	24.2	36.4





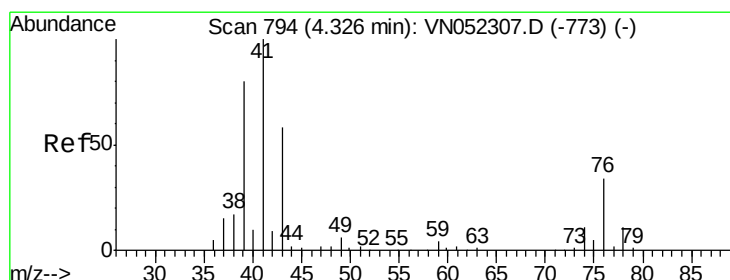
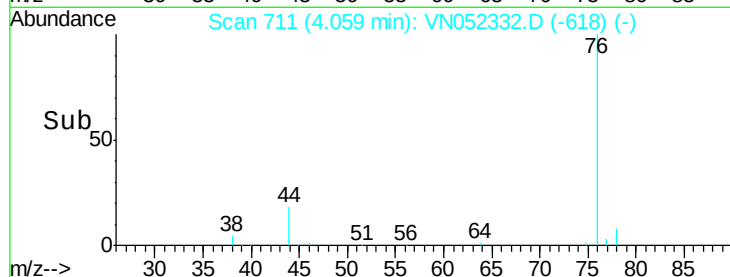
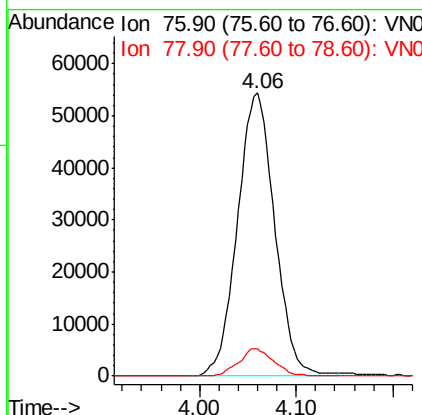
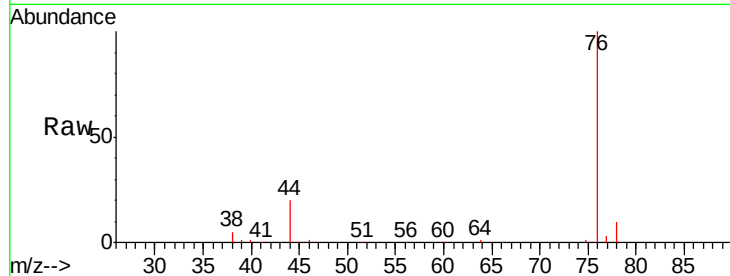
#17
Carbon Disulfide
Concen: 17.96 ug/l
RT: 4.06 min Scan# 711
Delta R.T. 0.00 min
Lab File: VN052332.D
Acq: 15 Nov 2018 10:23

Instrument :
MSVOA_N
ClientSampleId :
VN1115WBS01

Tgt Ion: 76 Resp: 145269
Ion Ratio Lower Upper
76 100
78 9.5 7.7 11.5

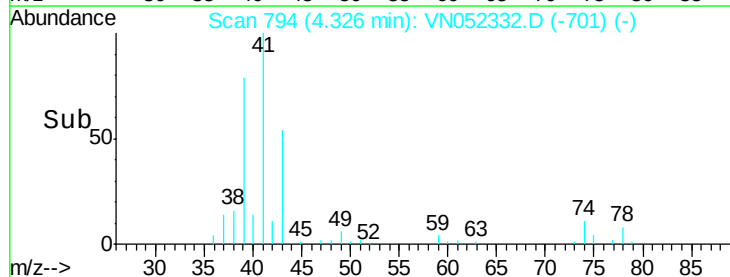
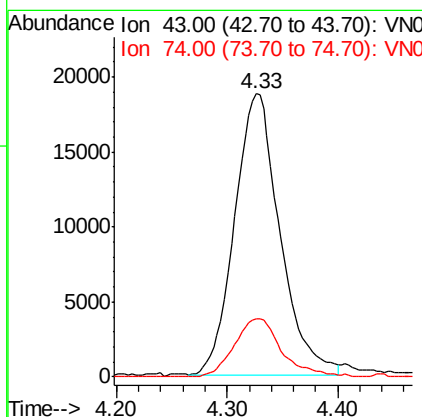
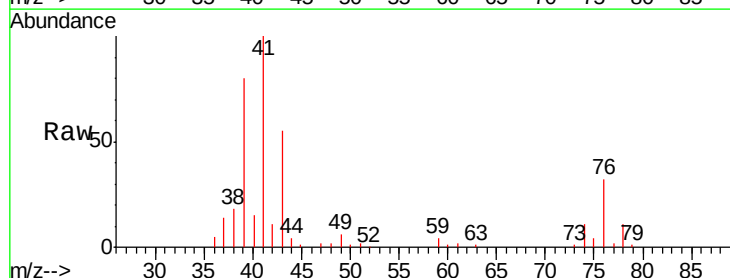
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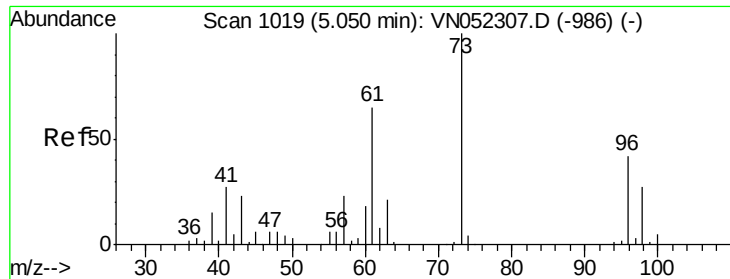
MMDadoda
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#18
Methyl Acetate
Concen: 18.10 ug/l
RT: 4.33 min Scan# 794
Delta R.T. 0.00 min
Lab File: VN052332.D
Acq: 15 Nov 2018 10:23

Tgt Ion: 43 Resp: 53214
Ion Ratio Lower Upper
43 100
74 21.8 15.9 23.9





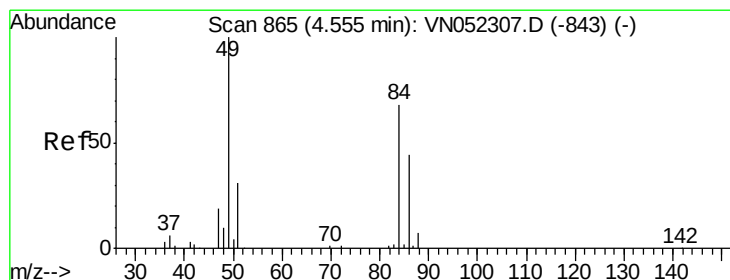
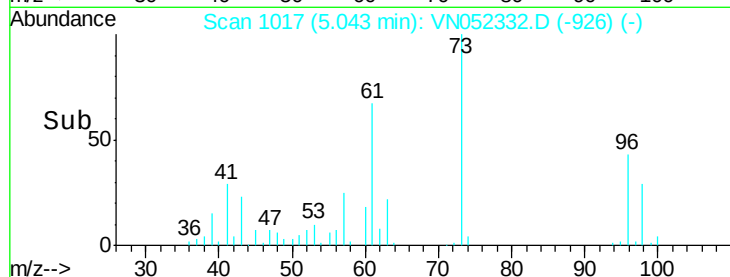
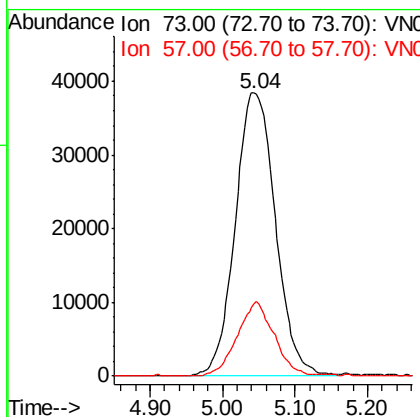
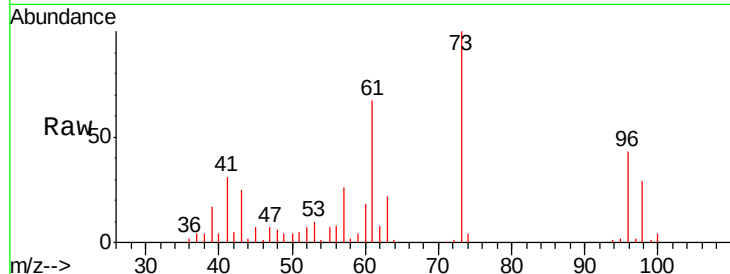
#19
Methyl tert-butyl Ether
Concen: 18.31 ug/l
RT: 5.04 min Scan# 1017
Delta R.T. -0.01 min
Lab File: VN052332.D
Acq: 15 Nov 2018 10:23

Instrument :
MSVOA_N
ClientSampleId :
VN1115WBS01

Tgt Ion: 73 Resp: 148419
Ion Ratio Lower Upper
73 100
57 25.7 18.7 28.1

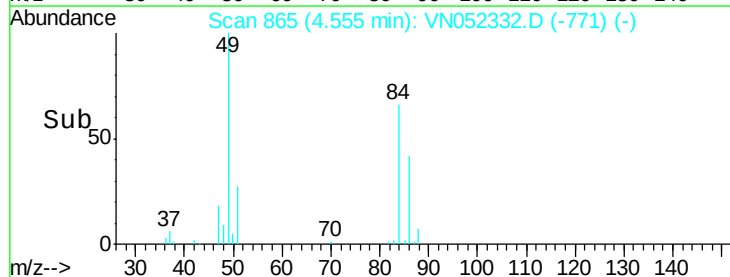
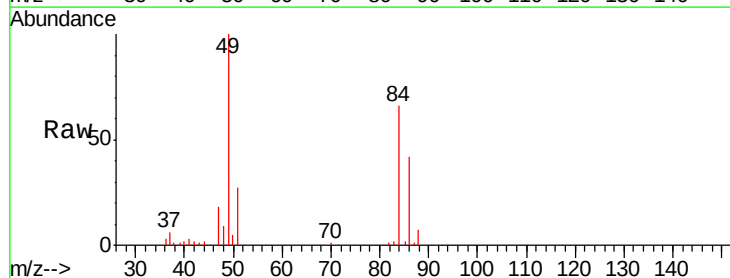
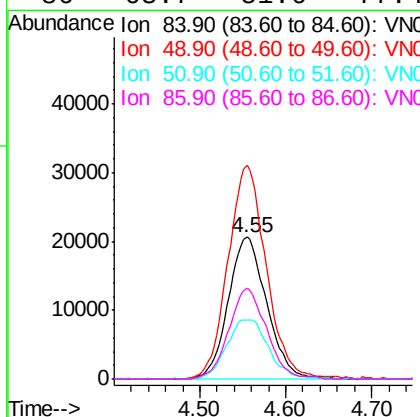
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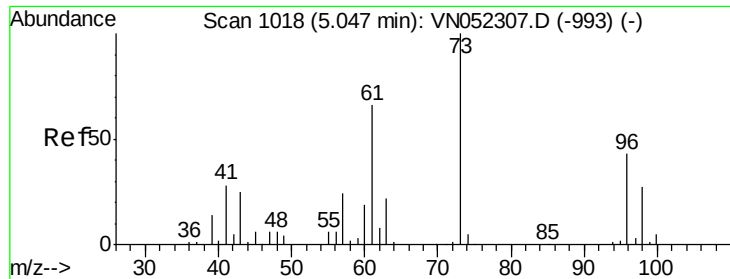
MMDadoda
11/16/2018 4:06:52 PM



#20
Methylene Chloride
Concen: 19.39 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN052332.D
Acq: 15 Nov 2018 10:23

Tgt Ion: 84 Resp: 64244
Ion Ratio Lower Upper
84 100
49 149.8 118.2 177.2
51 41.4 36.1 54.1
86 63.7 51.6 77.4





#21

trans-1,2-Dichloroethene

Concen: 17.70 ug/l

RT: 5.05 min Scan# 1018

Delta R.T. -0.00 min

Lab File: VN052332.D

Acq: 15 Nov 2018 10:23

Instrument :

MSVOA_N

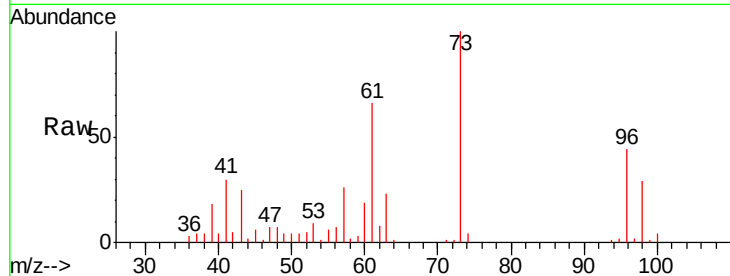
ClientSampleId :

VN1115WBS01

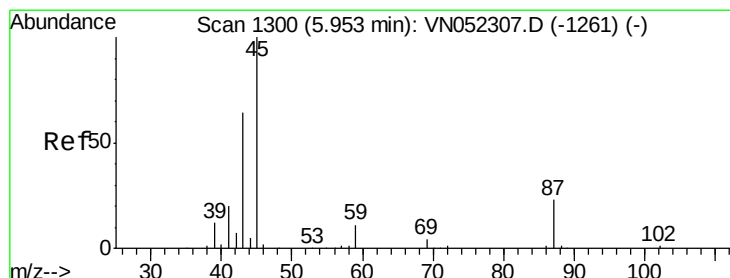
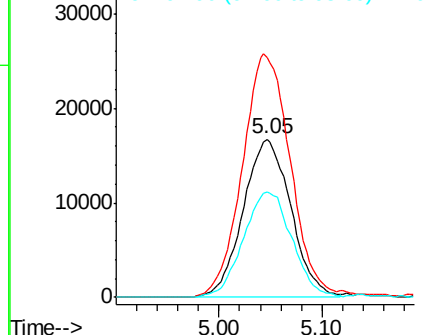
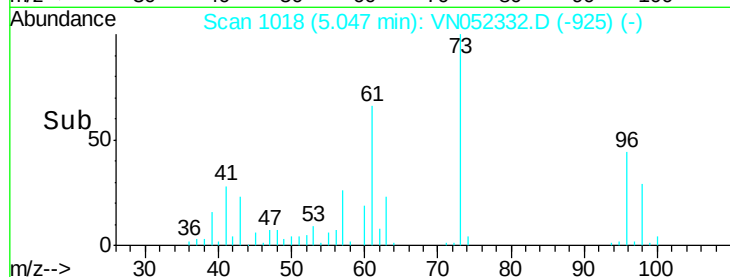
Tgt Ion:	96	Resp:	53755
Ion	Ratio	Lower	Upper
96	100		
61	151.8	123.6	185.4
98	66.9	50.7	76.1

Manual Integrations
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Abundance Ion 95.90 (95.60 to 96.60): VN052332.D (-925) (-)



#22

Diisopropyl ether

Concen: 18.84 ug/l

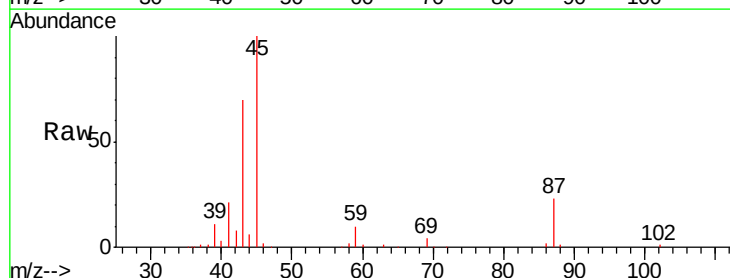
RT: 5.95 min Scan# 1299

Delta R.T. -0.00 min

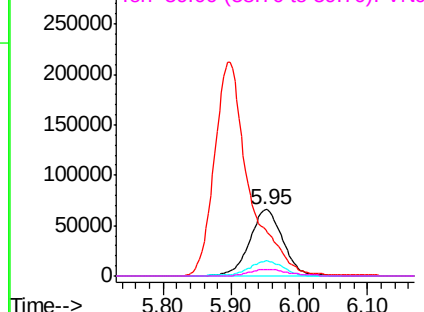
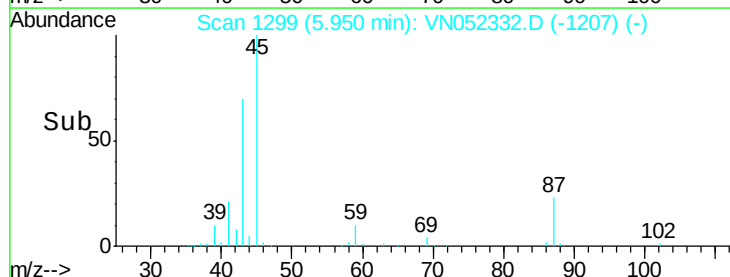
Lab File: VN052332.D

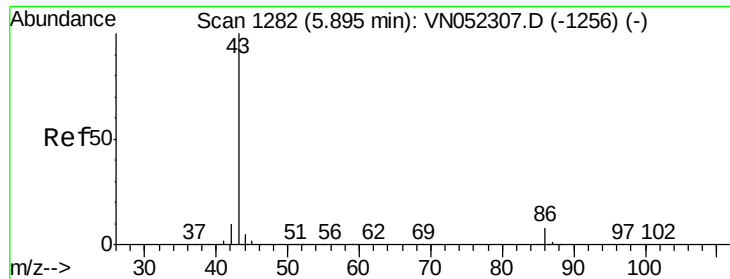
Acq: 15 Nov 2018 10:23

Tgt Ion:	45	Resp:	222681
Ion	Ratio	Lower	Upper
45	100		
43	68.6	51.4	77.2
87	22.8	18.8	28.2
59	10.0	8.6	12.8



Abundance Ion 45.00 (44.70 to 45.70): VN052332.D (-1207) (-)





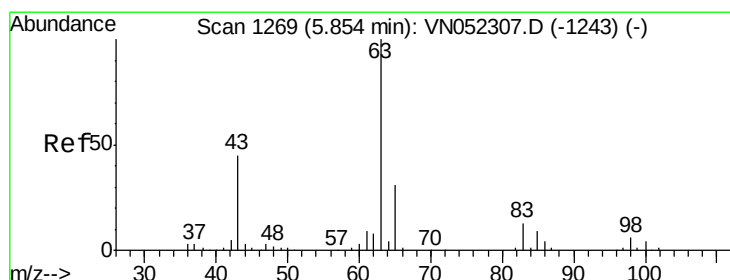
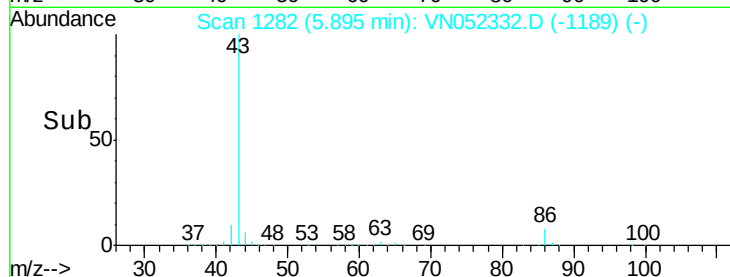
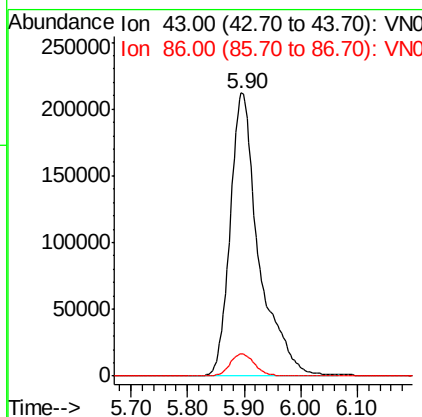
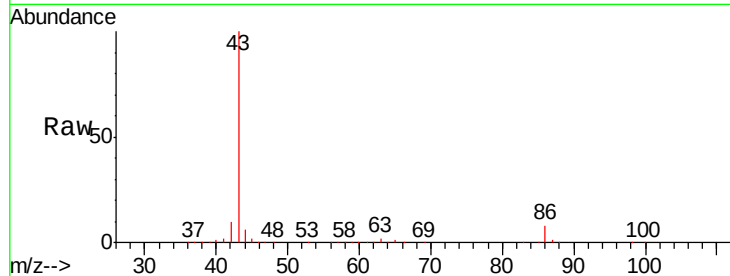
#23
 Vinyl Acetate
 Concen: 93.50 ug/l
 RT: 5.90 min Scan# 1282
 Delta R.T. 0.00 min
 Lab File: VN052332.D
 Acq: 15 Nov 2018 10:23

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1115WBS01

Tgt Ion	Ratio	Lower	Upper
43	100		
86	7.9	6.5	9.7

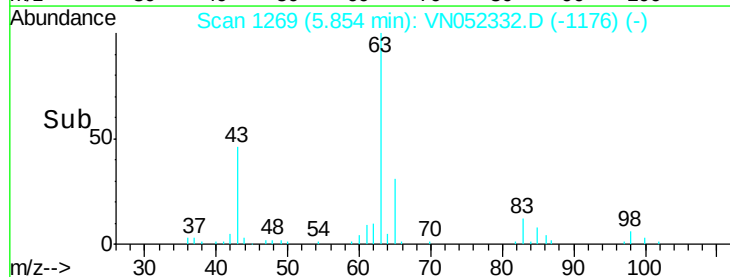
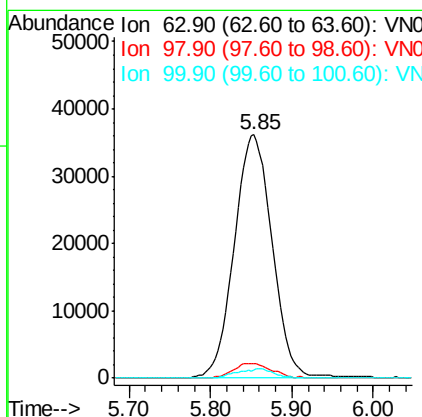
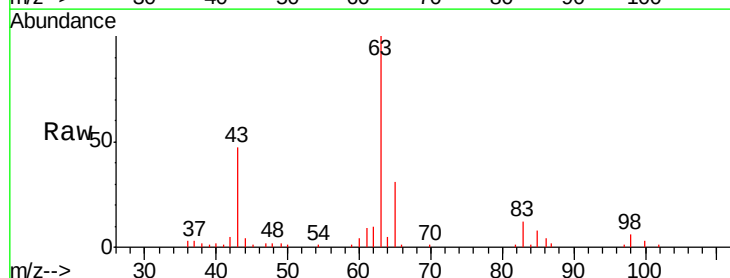
Manual Integrations
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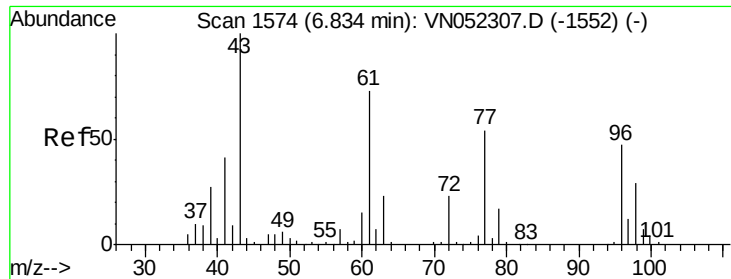
MMDadoda
 11/16/2018 4:06:52 PM



#24
 1,1-Dichloroethane
 Concen: 18.37 ug/l
 RT: 5.85 min Scan# 1269
 Delta R.T. 0.00 min
 Lab File: VN052332.D
 Acq: 15 Nov 2018 10:23

Tgt Ion	Ratio	Lower	Upper
63	100		
98	6.0	2.9	8.6
100	3.2	1.9	5.7





#25

2-Butanone

Concen: 91.37 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. 0.00 min

Lab File: VN052332.D

Acq: 15 Nov 2018 10:23

Instrument :

MSVOA_N

ClientSampleId :

VN1115WBS01

Tgt Ion: 43 Resp: 137034

Ion Ratio Lower Upper

43 100

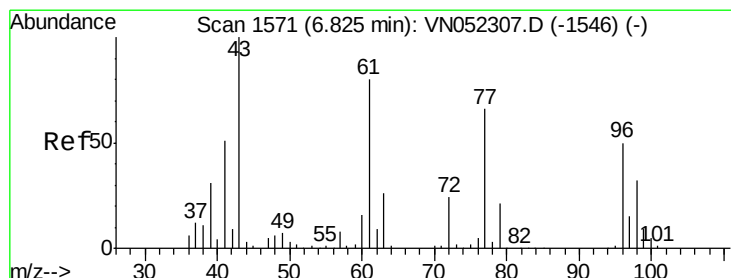
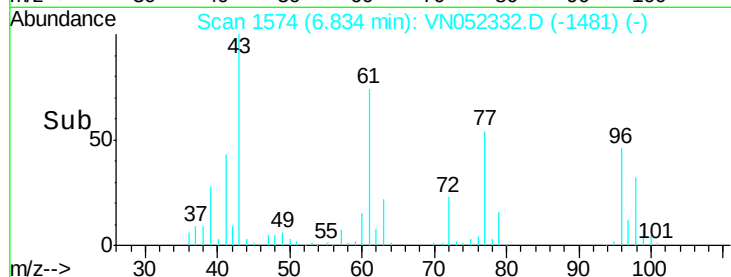
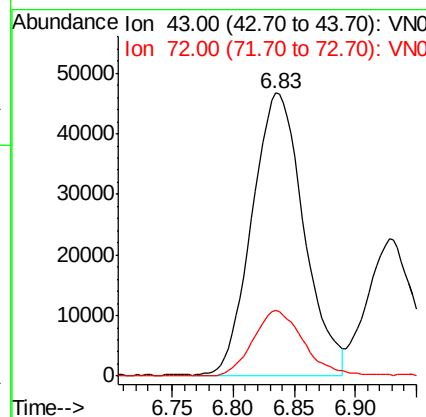
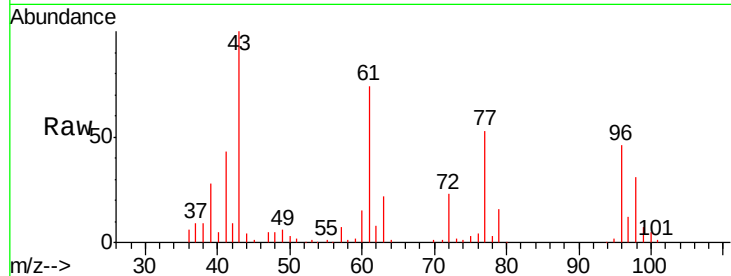
72 23.4 18.6 27.8

Manual Integrations

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11/16/2018 4:06:52 PM



#26

2,2-Dichloropropane

Concen: 18.32 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VN052332.D

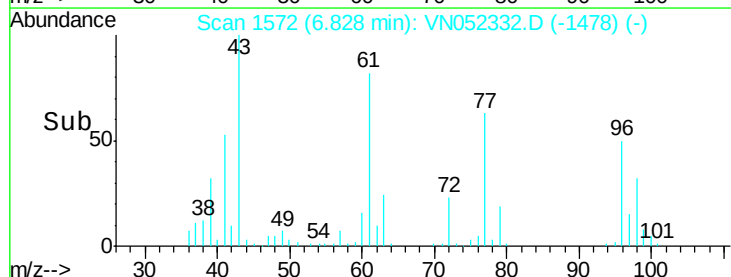
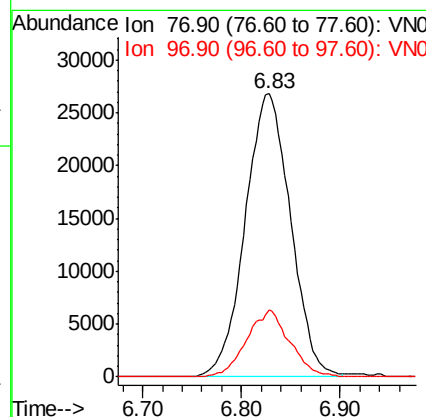
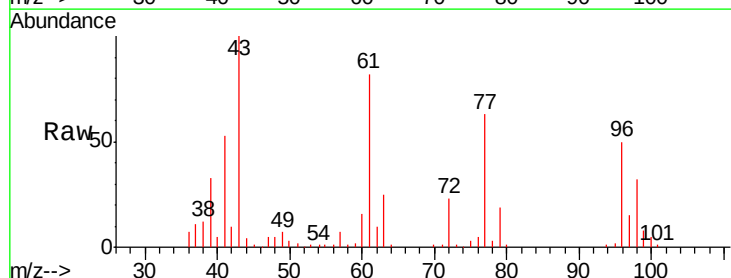
Acq: 15 Nov 2018 10:23

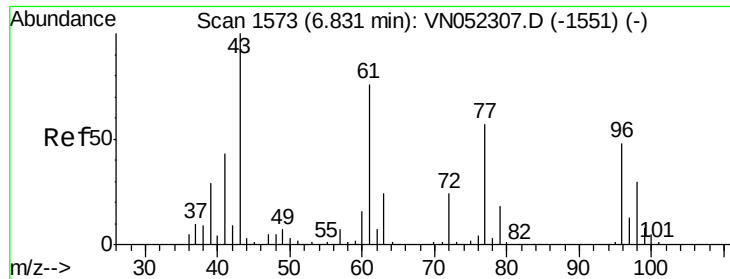
Tgt Ion: 77 Resp: 85348

Ion Ratio Lower Upper

77 100

97 22.4 11.1 33.1





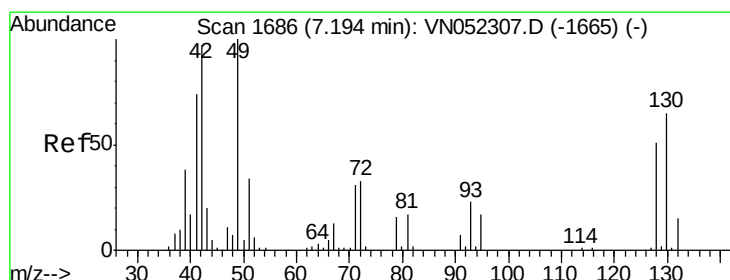
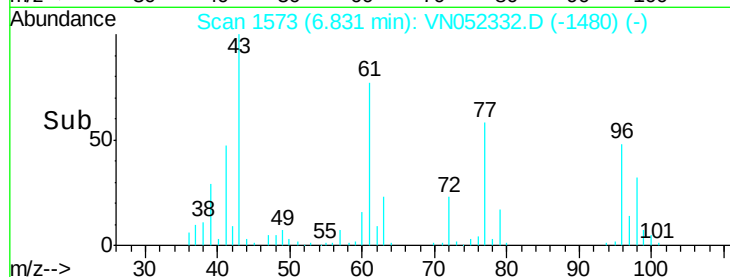
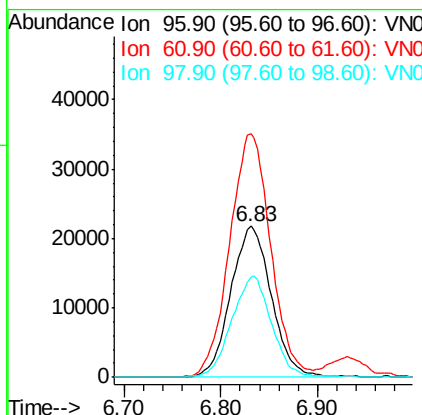
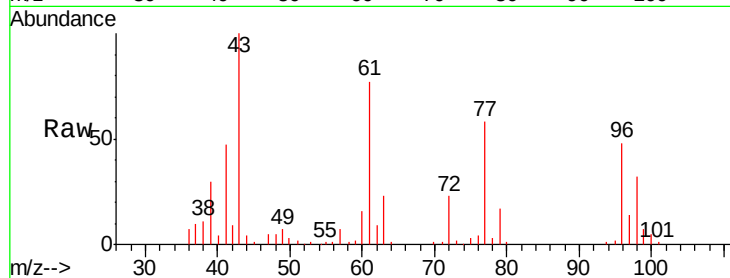
#27
 cis-1,2-Dichloroethene
 Concen: 18.03 ug/l
 RT: 6.83 min Scan# 1573
 Delta R.T. 0.00 min
 Lab File: VN052332.D
 Acq: 15 Nov 2018 10:23

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1115WBS01

Tgt Ion	Ratio	Lower	Upper
96	100		
61	162.1	0.0	316.8
98	65.3	0.0	126.6

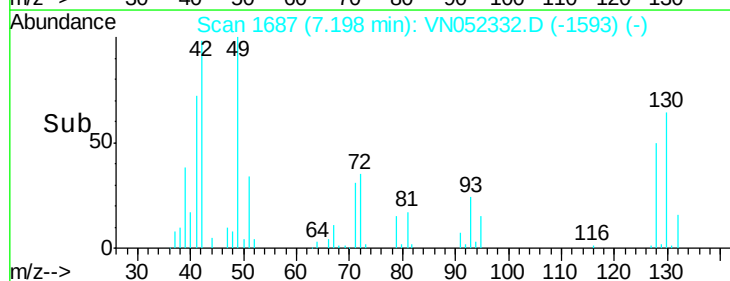
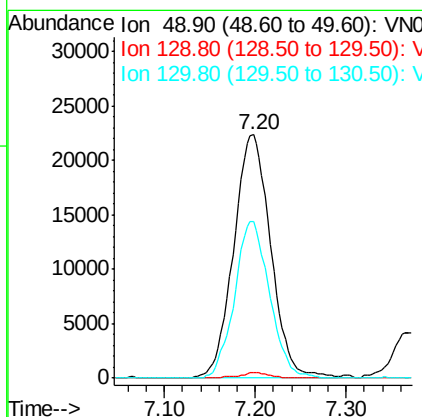
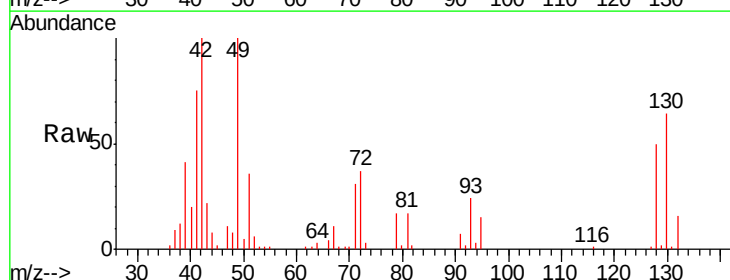
Manual Integrations
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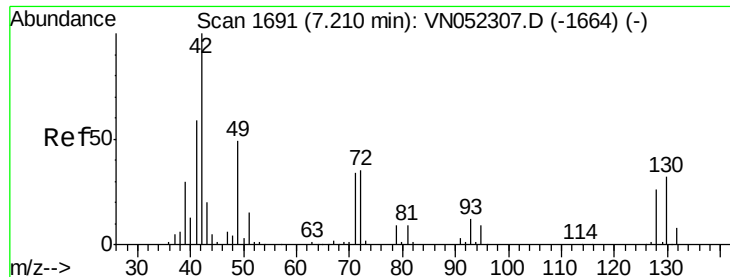
MMDadoda
 11/16/2018 4:06:52 PM



#28
 Bromochloromethane
 Concen: 19.40 ug/l
 RT: 7.20 min Scan# 1687
 Delta R.T. 0.00 min
 Lab File: VN052332.D
 Acq: 15 Nov 2018 10:23

Tgt Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	3.0
130	60.8	50.4	75.6





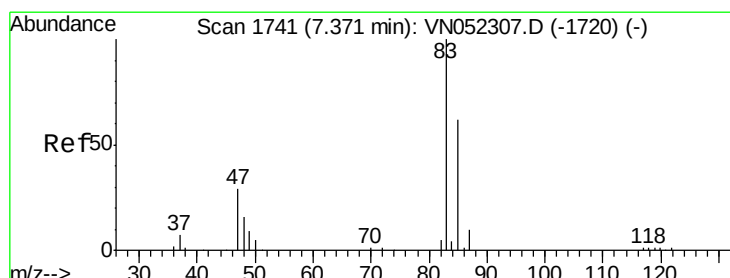
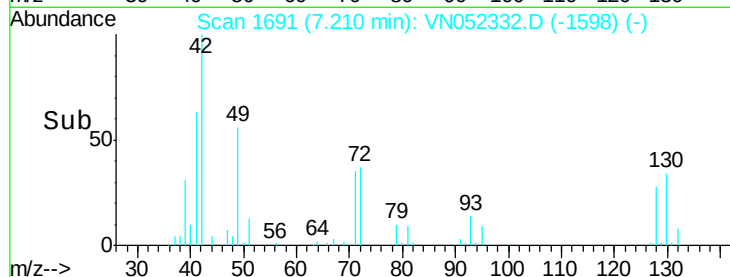
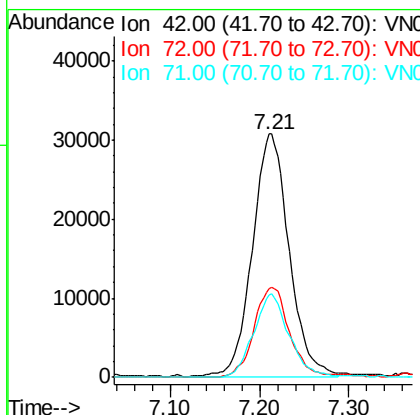
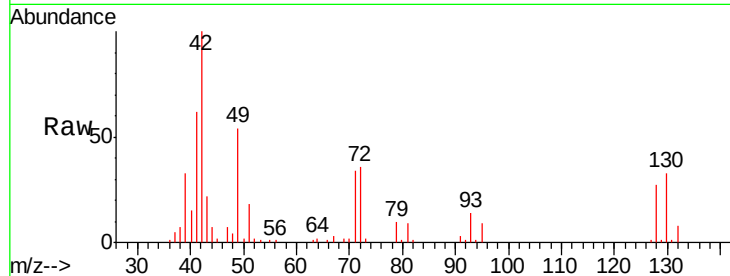
#29
Tetrahydrofuran
Concen: 90.14 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. -0.00 min
Lab File: VN052332.D
Acq: 15 Nov 2018 10:23

Instrument :
MSVOA_N
ClientSampleId :
VN1115WBS01

Tgt Ion	Ratio	Lower	Upper
42	100		
72	35.3	28.6	42.8
71	32.8	26.7	40.1

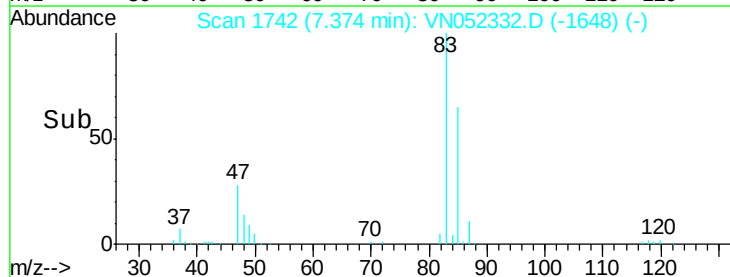
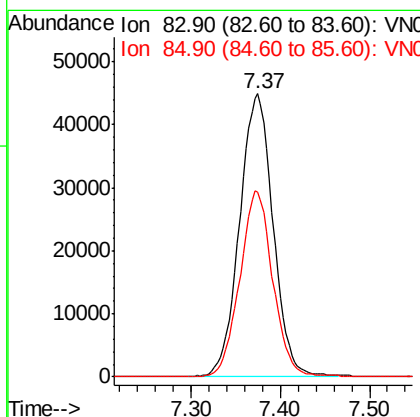
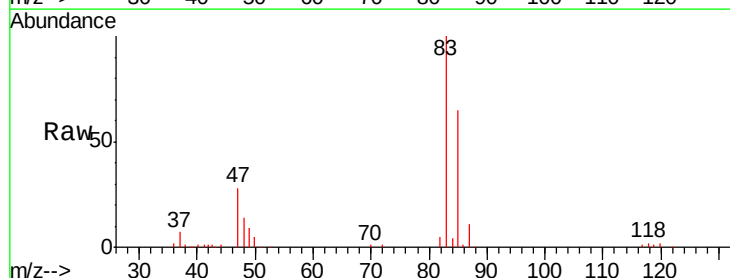
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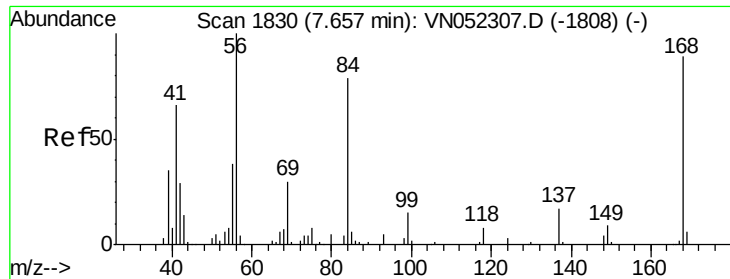
MMDadoda
11/16/2018 4:06:52 PM



#30
Chloroform
Concen: 19.40 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN052332.D
Acq: 15 Nov 2018 10:23

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.3	49.4	74.2





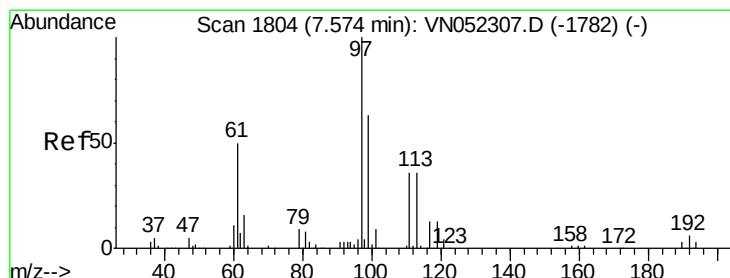
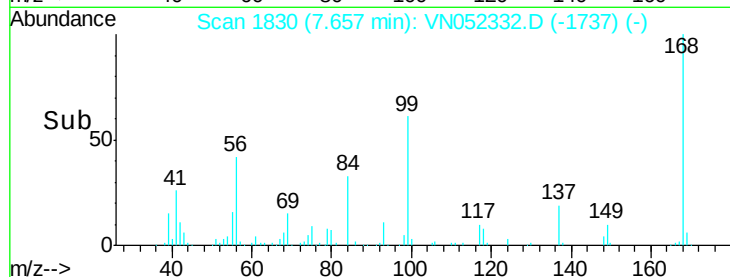
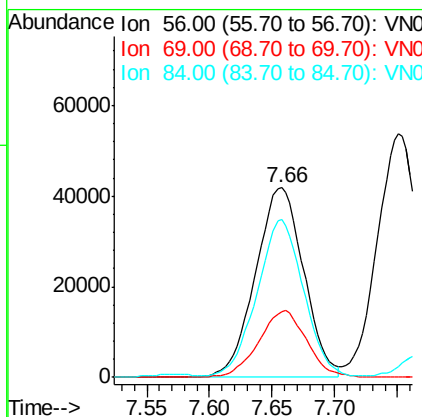
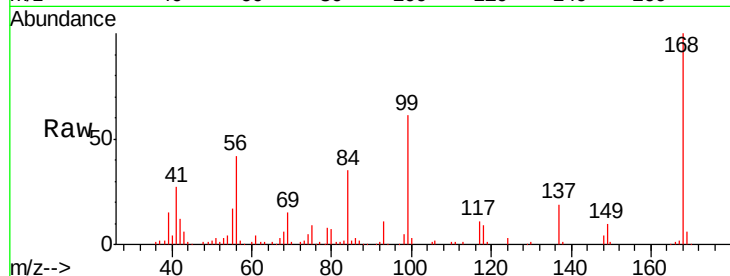
#31
Cyclohexane
Concen: 18.38 ug/l
RT: 7.66 min Scan# 1830
Delta R.T. 0.00 min
Lab File: VN052332.D
Acq: 15 Nov 2018 10:23

Instrument :
MSVOA_N
ClientSampleId :
VN1115WBS01

Tgt Ion	Ratio	Lower	Upper
56	100		
69	34.9	23.8	35.8
84	82.1	63.0	94.6

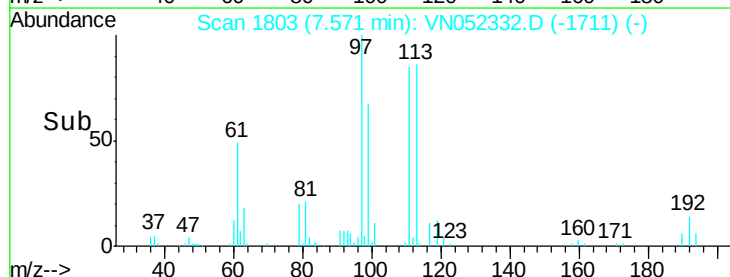
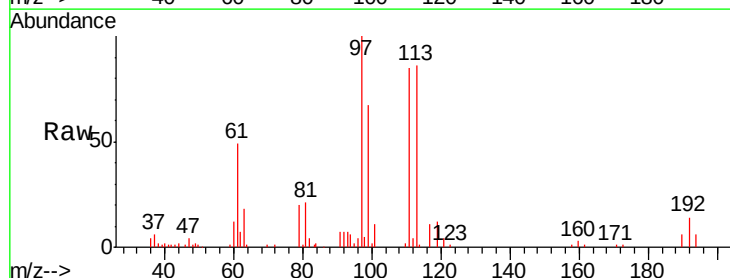
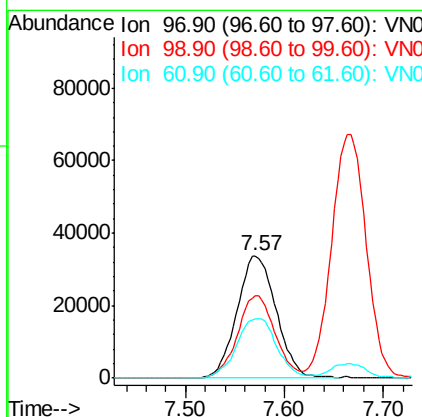
Manual Integrations
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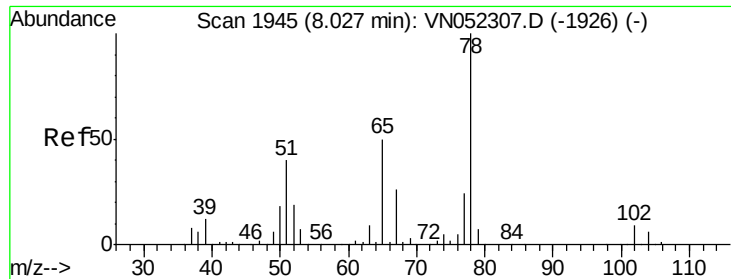
MMDadoda
11/16/2018 4:06:52 PM



#32
1,1,1-Trichloroethane
Concen: 18.07 ug/l
RT: 7.57 min Scan# 1803
Delta R.T. -0.00 min
Lab File: VN052332.D
Acq: 15 Nov 2018 10:23

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.6	50.2	75.2
61	50.0	40.2	60.4





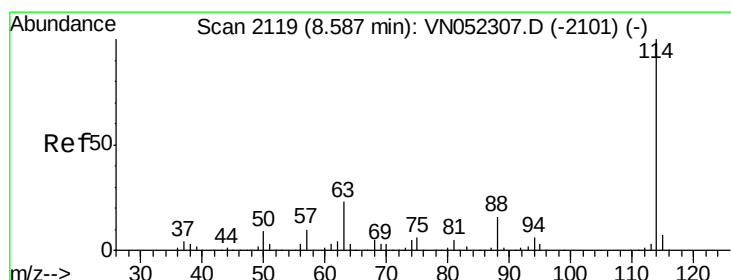
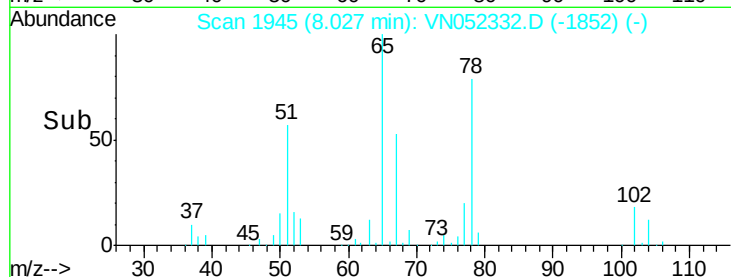
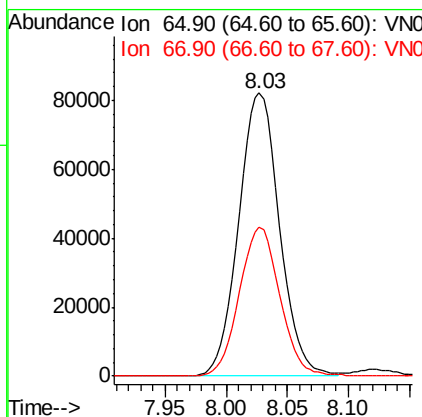
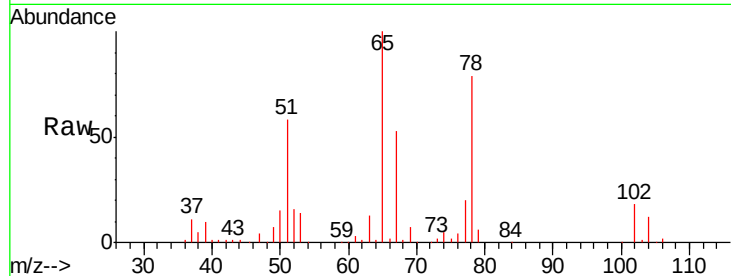
#33
 1,2-Dichloroethane-d4
 Concen: 18.07 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN052332.D
 Acq: 15 Nov 2018 10:23

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1115WBS01

Tgt Ion: 65 Resp: 190075
 Ion Ratio Lower Upper
 65 100
 67 52.2 0.0 105.2

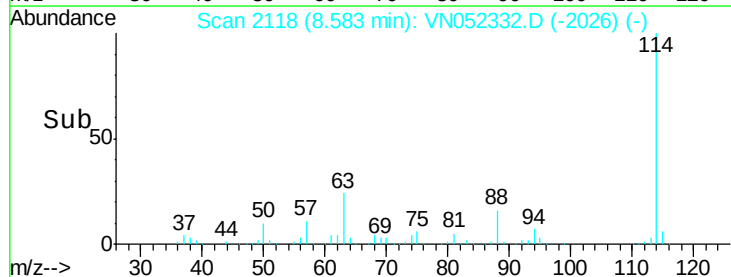
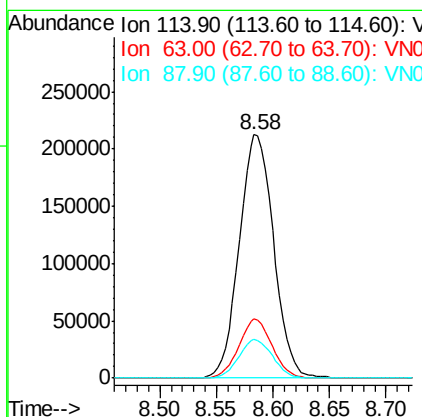
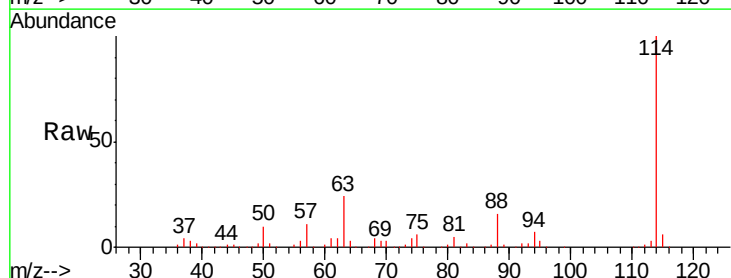
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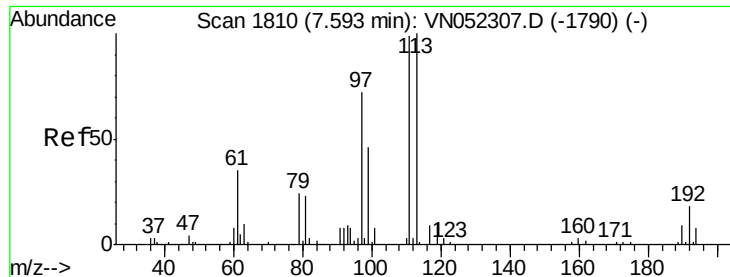
MMDadoda
 11/16/2018 4:06:52 PM



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN052332.D
 Acq: 15 Nov 2018 10:23

Tgt Ion: 114 Resp: 450217
 Ion Ratio Lower Upper
 114 100
 63 24.4 0.0 45.4
 88 15.8 0.0 31.2





#35

Dibromofluoromethane

Concen: 50.00 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. -0.00 min

Lab File: VN052332.D

Acq: 15 Nov 2018 10:23

Instrument :

MSVOA_N

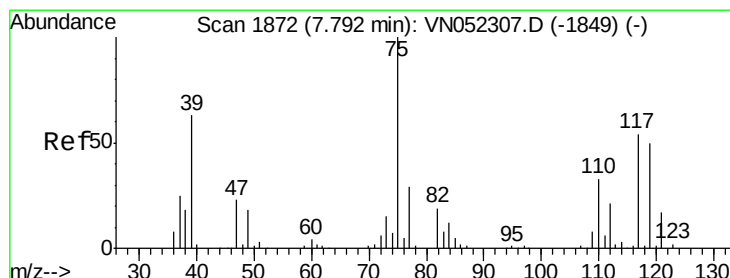
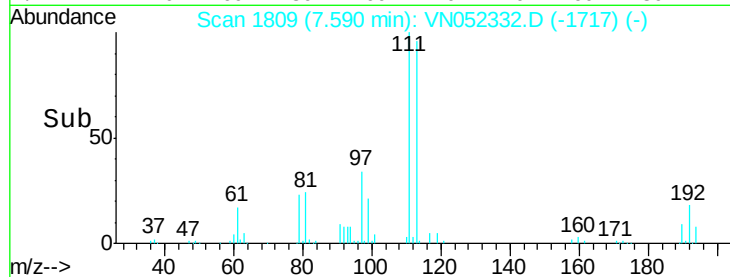
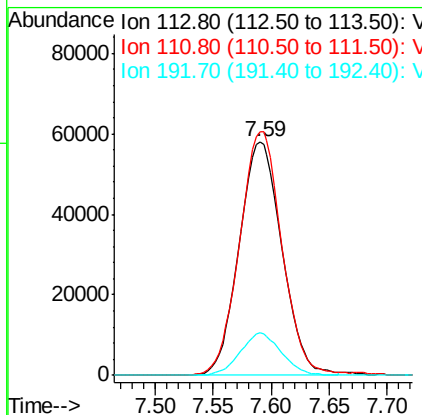
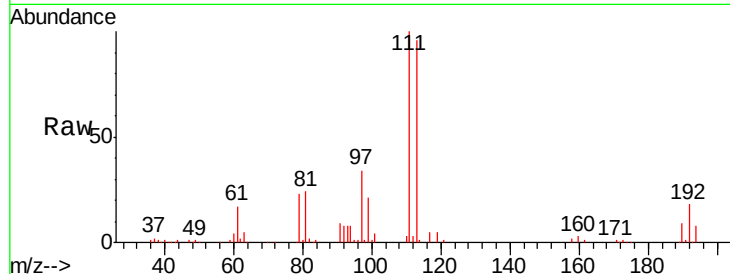
ClientSampleId :

VN1115WBS01

Tgt Ion:	113	Resp:	149176
Ion	Ratio	Lower	Upper
113	100		
111	103.5	81.0	121.6
192	17.4	13.8	20.6

Manual Integrations
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#36

1,1-Dichloropropene

Concen: 19.33 ug/l

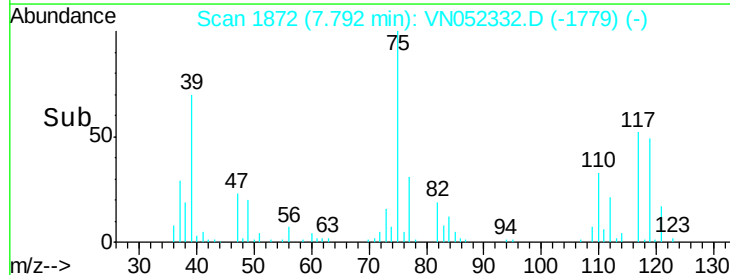
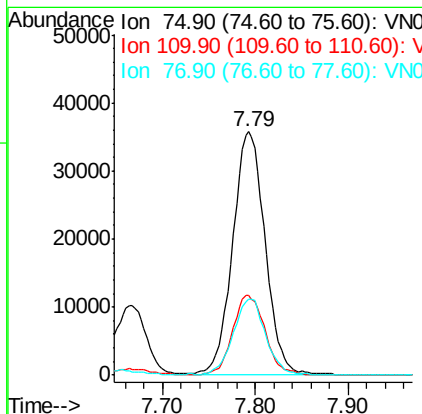
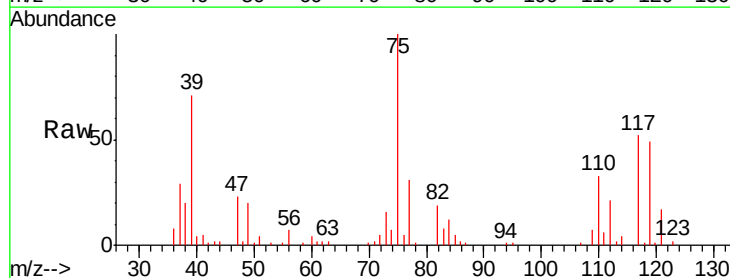
RT: 7.79 min Scan# 1872

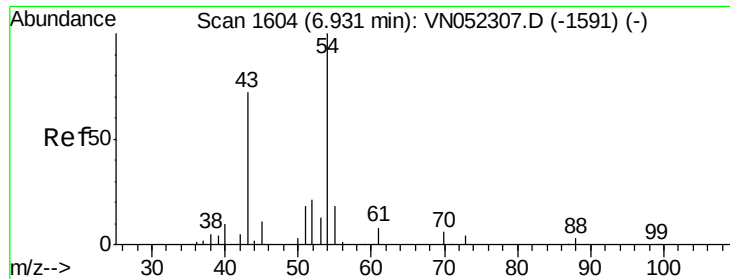
Delta R.T. 0.00 min

Lab File: VN052332.D

Acq: 15 Nov 2018 10:23

Tgt Ion:	75	Resp:	87210
Ion	Ratio	Lower	Upper
75	100		
110	32.5	16.5	49.5
77	31.1	24.2	36.2





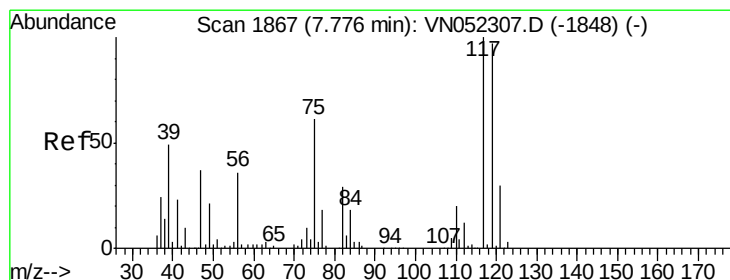
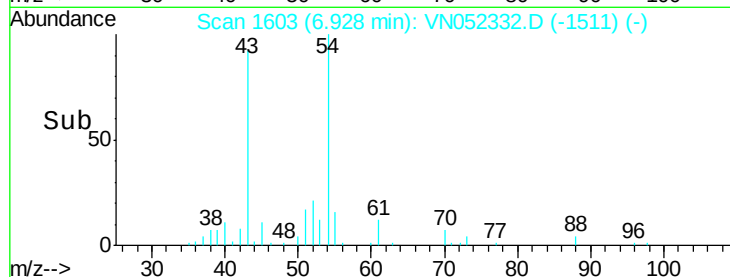
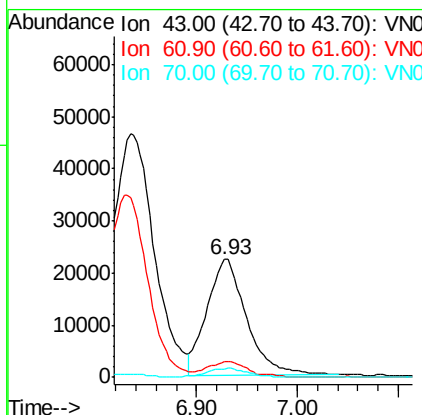
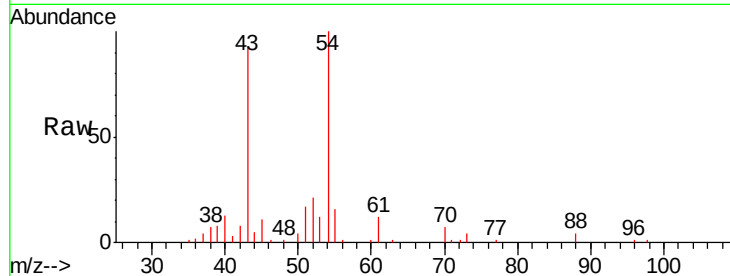
#37
Ethyl Acetate
Concen: 18.75 ug/l
RT: 6.93 min Scan# 1603
Delta R.T. -0.00 min
Lab File: VN052332.D
Acq: 15 Nov 2018 10:23

Instrument :
MSVOA_N
ClientSampleId :
VN1115WBS01

Tgt Ion	Ratio	Lower	Upper
43	100		
61	13.6	10.3	15.5
70	7.9	5.6	8.4

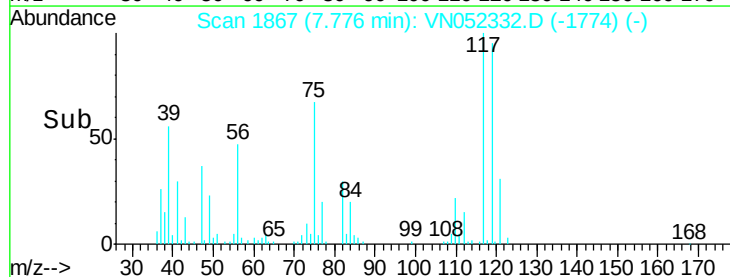
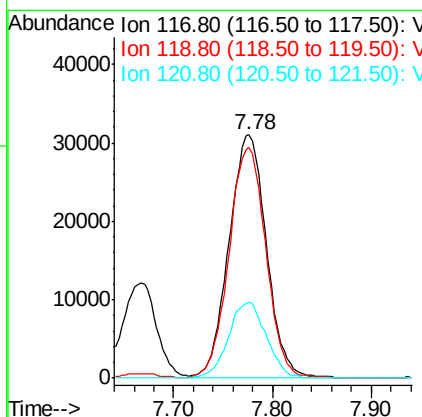
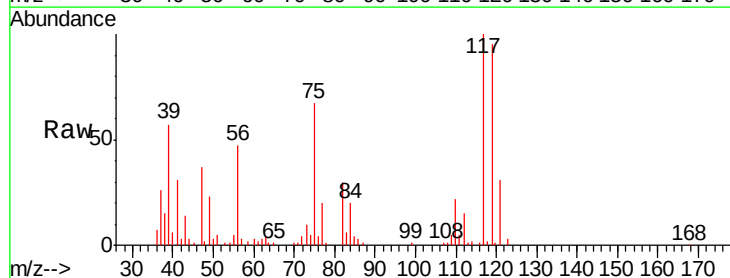
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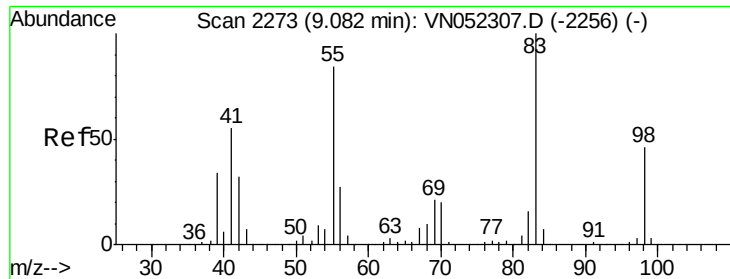
MMDadoda
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#38
Carbon Tetrachloride
Concen: 19.78 ug/l
RT: 7.78 min Scan# 1867
Delta R.T. 0.00 min
Lab File: VN052332.D
Acq: 15 Nov 2018 10:23

Tgt Ion	Ratio	Lower	Upper
117	100		
119	94.8	77.4	116.0
121	31.3	24.0	36.0





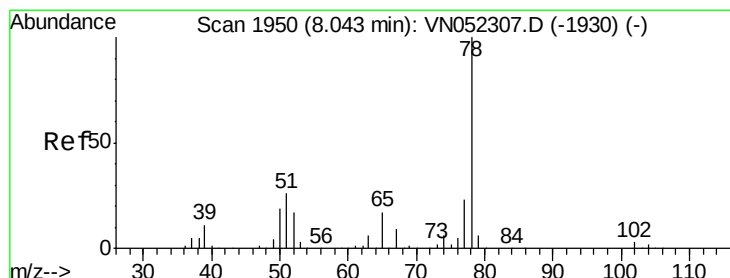
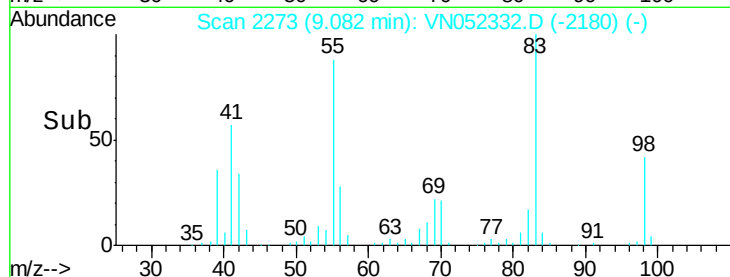
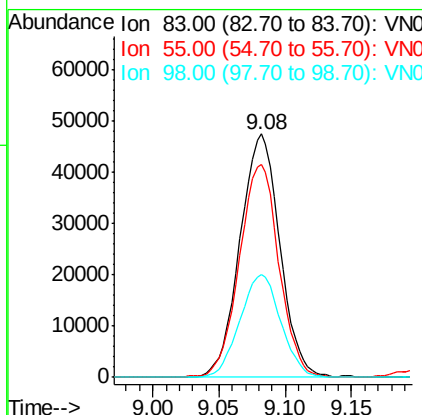
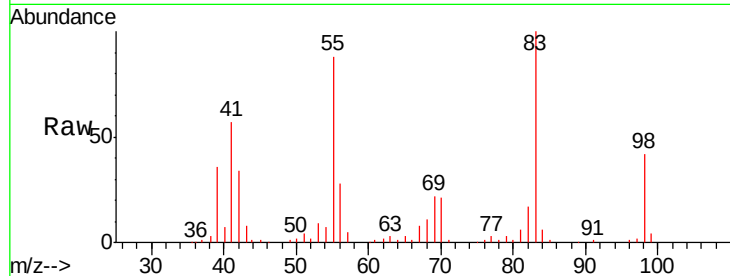
#39
Methylcyclohexane
Concen: 19.27 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN052332.D
Acq: 15 Nov 2018 10:23

Instrument :
MSVOA_N
ClientSampleId :
VN1115WBS01

Tgt Ion	Ratio	Lower	Upper
83	100		
55	87.3	66.8	100.2
98	42.2	36.4	54.6

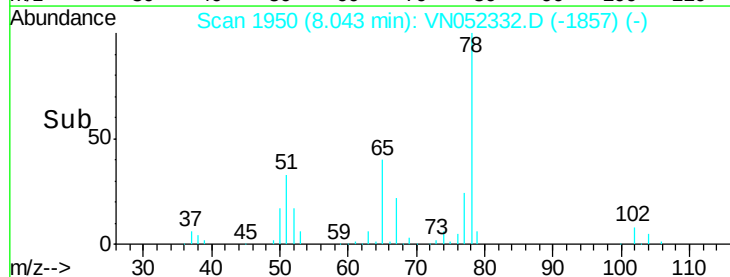
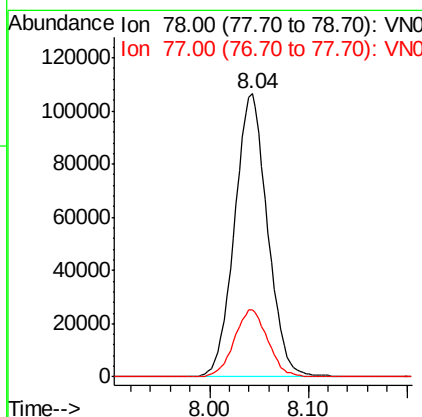
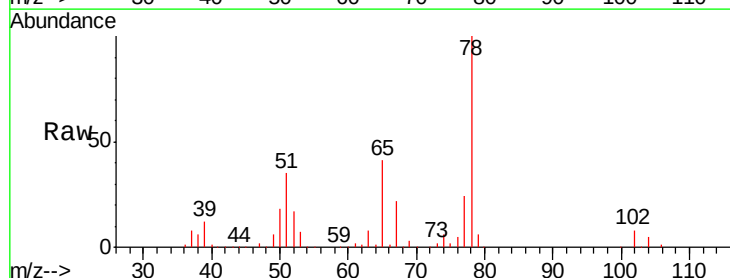
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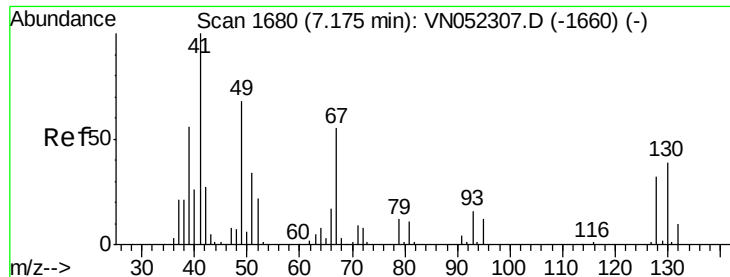
MMDadoda
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#40
Benzene
Concen: 19.11 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN052332.D
Acq: 15 Nov 2018 10:23

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.7	18.7	28.1





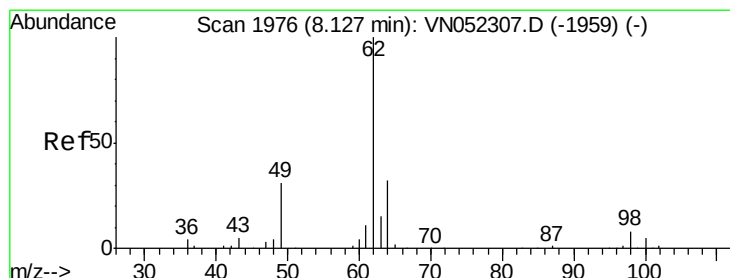
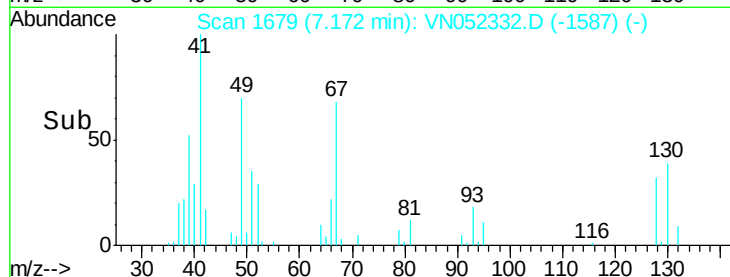
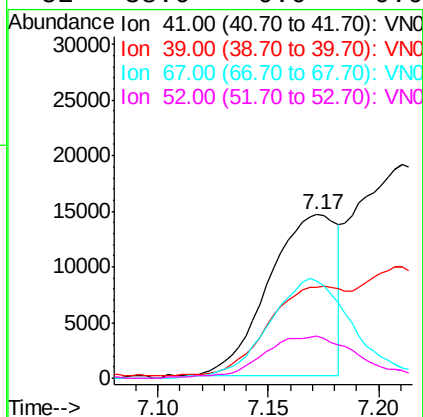
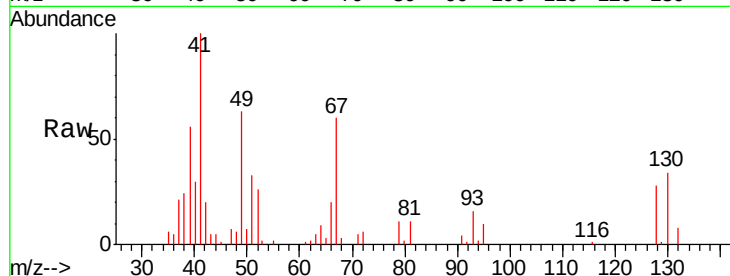
#41
Methacrylonitrile
Concen: 19.54 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. -0.00 min
Lab File: VN052332.D
Acq: 15 Nov 2018 10:23

Instrument :
MSVOA_N
ClientSampleId :
VN1115WBS01

Tgt Ion	Ratio	Lower	Upper
41	100		
39	61.2	0.0	0.0#
67	76.9	0.0	0.0#
52	38.0	0.0	0.0#

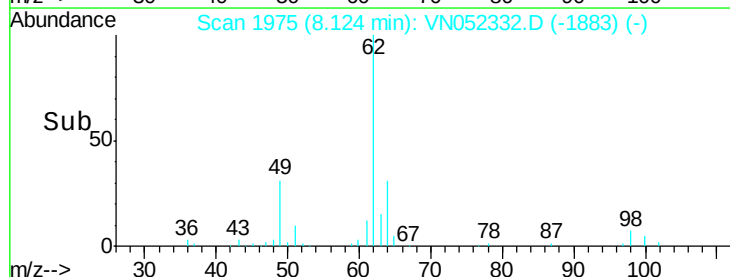
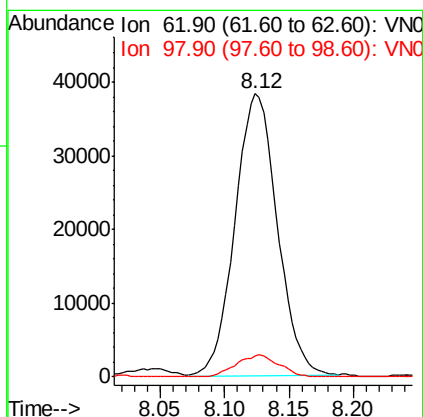
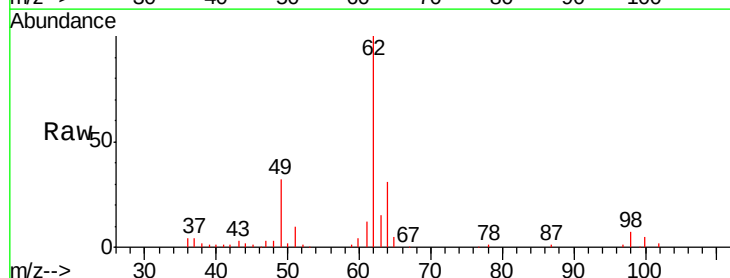
Manual Integrations
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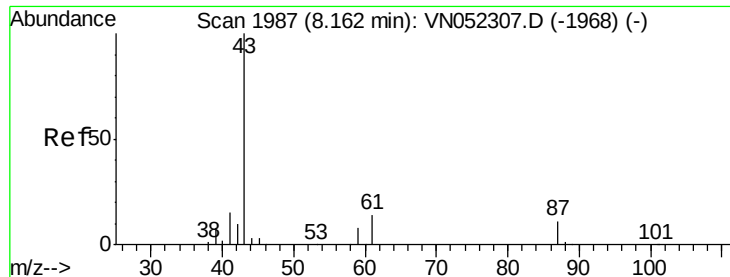
MMDadoda
11/16/2018 4:06:52 PM



#42
1,2-Dichloroethane
Concen: 19.02 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. -0.00 min
Lab File: VN052332.D
Acq: 15 Nov 2018 10:23

Tgt Ion	Ratio	Lower	Upper
62	100		
98	7.8	0.0	15.6





#43

Isopropyl Acetate

Concen: 17.65 ug/l

RT: 8.16 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN052332.D

Acq: 15 Nov 2018 10:23

Instrument :

MSVOA_N

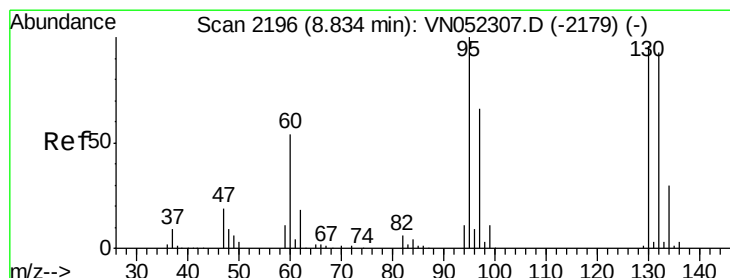
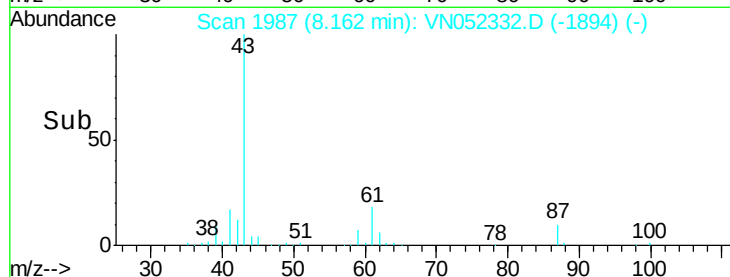
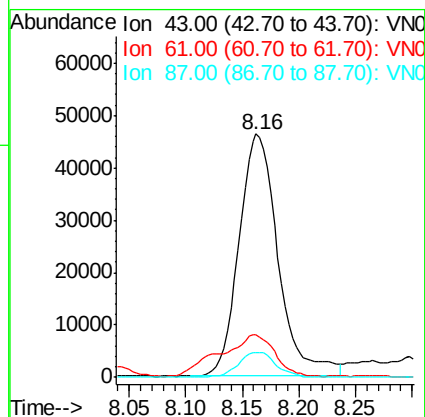
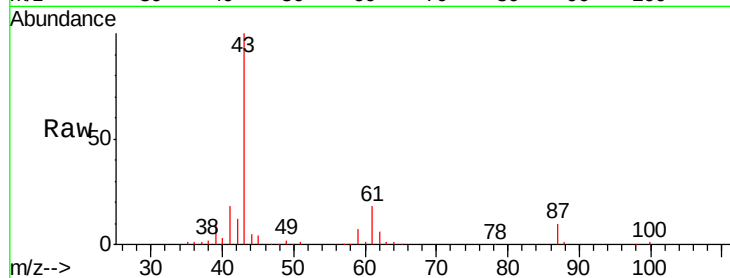
ClientSampleId :

VN1115WBS01

Tgt Ion:	43	Resp:	111564
Ion	Ratio	Lower	Upper
43	100		
61	24.6	12.0	18.0#
87	9.8	8.3	12.5

Manual Integrations
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#44

Trichloroethene

Concen: 19.34 ug/l

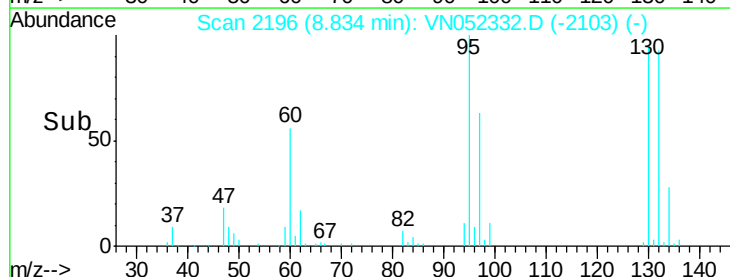
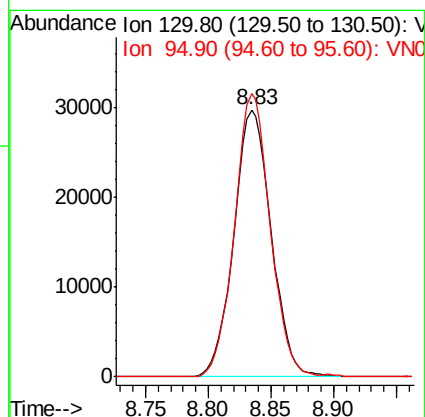
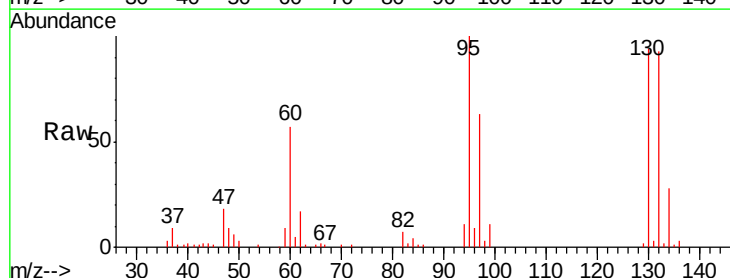
RT: 8.83 min Scan# 2196

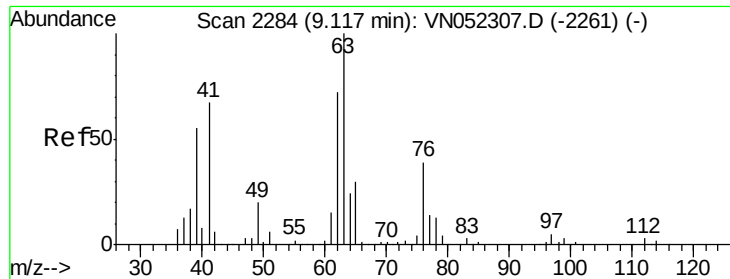
Delta R.T. 0.00 min

Lab File: VN052332.D

Acq: 15 Nov 2018 10:23

Tgt Ion:	130	Resp:	61428
Ion	Ratio	Lower	Upper
130	100		
95	106.1	0.0	208.4





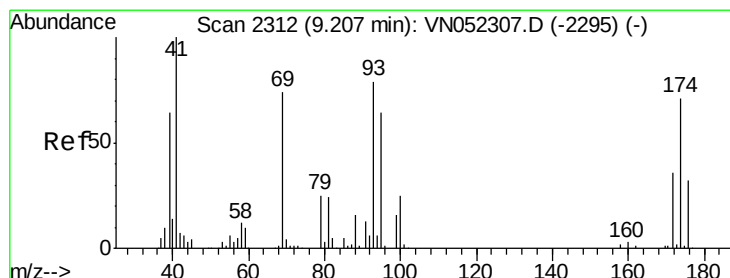
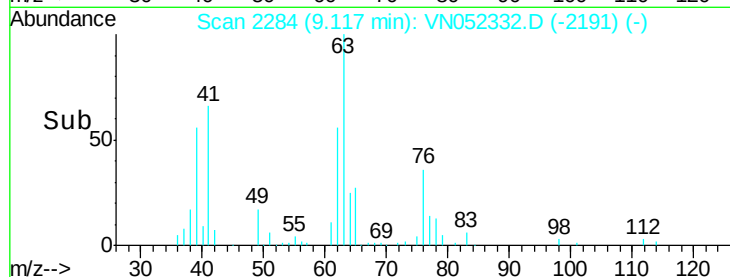
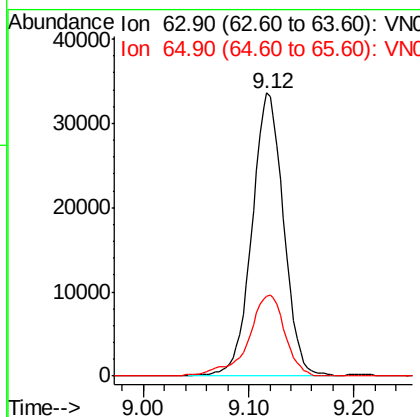
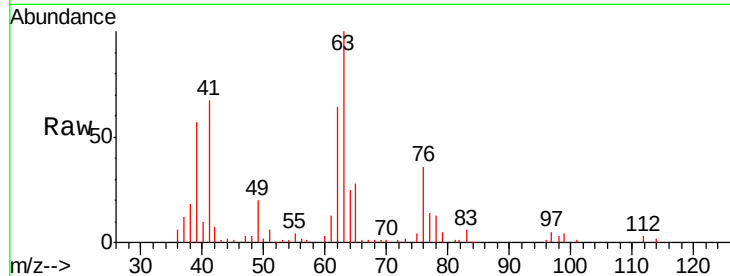
#45
 1,2-Dichloropropane
 Concen: 19.19 ug/l
 RT: 9.12 min Scan# 2284
 Delta R.T. 0.00 min
 Lab File: VN052332.D
 Acq: 15 Nov 2018 10:23

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1115WBS01

Tgt Ion: 63 Resp: 70200
 Ion Ratio Lower Upper
 63 100
 65 28.1 24.2 36.4

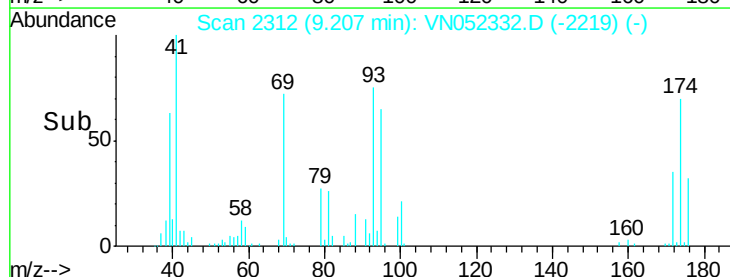
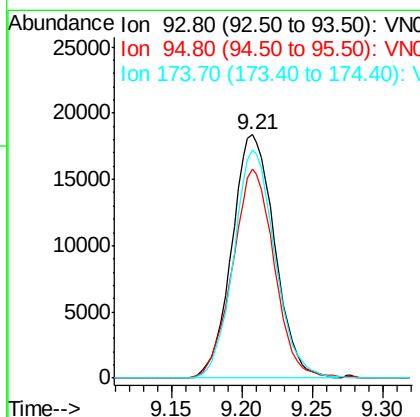
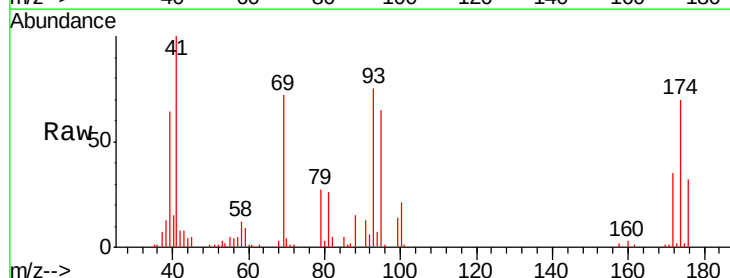
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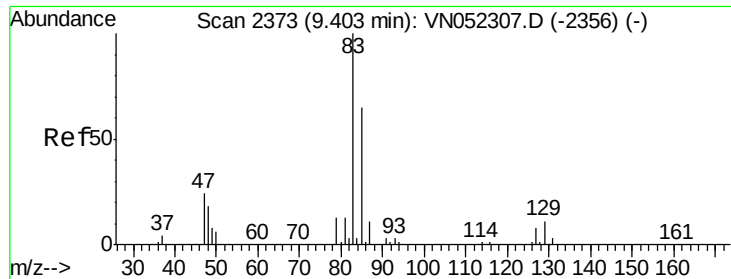
MMDadoda
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#46
 Dibromomethane
 Concen: 18.39 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. 0.00 min
 Lab File: VN052332.D
 Acq: 15 Nov 2018 10:23

Tgt Ion: 93 Resp: 38947
 Ion Ratio Lower Upper
 93 100
 95 83.9 64.2 96.2
 174 90.8 70.9 106.3





#47

Bromodichloromethane

Concen: 19.45 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN052332.D

Acq: 15 Nov 2018 10:23

Instrument :

MSVOA_N

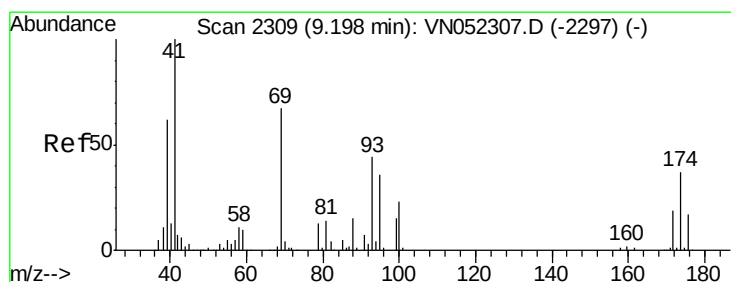
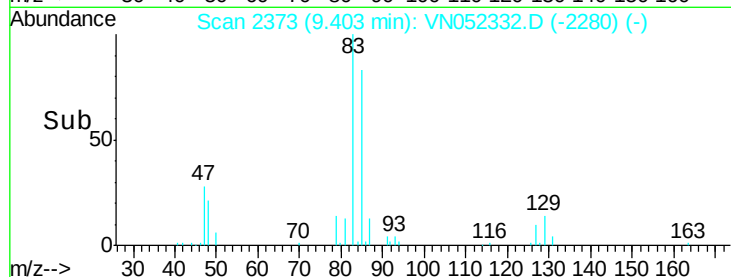
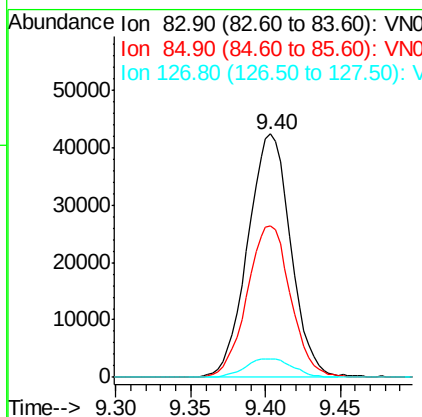
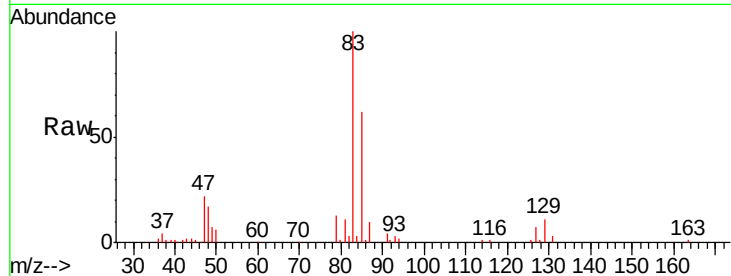
ClientSampleId :

VN1115WBS01

Tgt Ion:	83	Resp:	84553
Ion	Ratio	Lower	Upper
83	100		
85	62.3	52.2	78.4
127	7.4	6.7	10.1

Manual Integrations
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#48

Methyl methacrylate

Concen: 17.73 ug/l

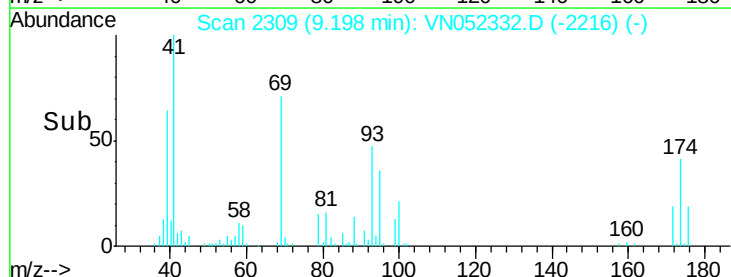
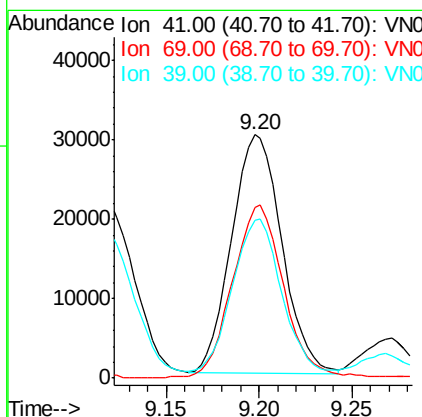
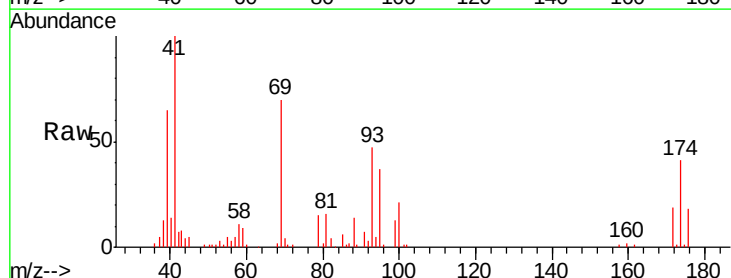
RT: 9.20 min Scan# 2309

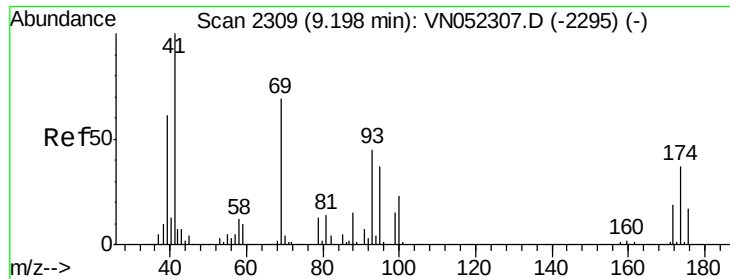
Delta R.T. 0.00 min

Lab File: VN052332.D

Acq: 15 Nov 2018 10:23

Tgt Ion:	41	Resp:	56839
Ion	Ratio	Lower	Upper
41	100		
69	73.8	57.1	85.7
39	65.4	52.5	78.7





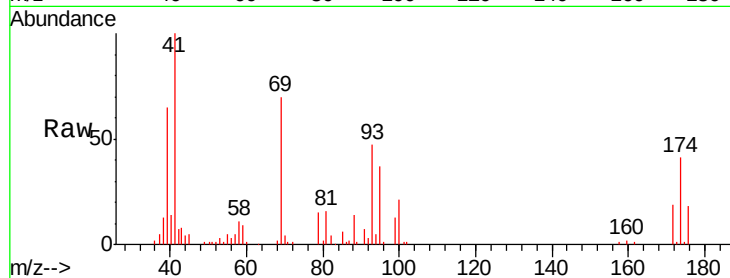
#49
1,4-Dioxane
Concen: 384.39 ug/l
RT: 9.20 min Scan# 2309
Delta R.T. 0.00 min
Lab File: VN052332.D
Acq: 15 Nov 2018 10:23

Instrument :
MSVOA_N
ClientSampleId :
VN1115WBS01

Tgt Ion	Ratio	Lower	Upper
88	100		
43	44.3	33.3	49.9
58	78.5	59.2	88.8

Manual Integrations
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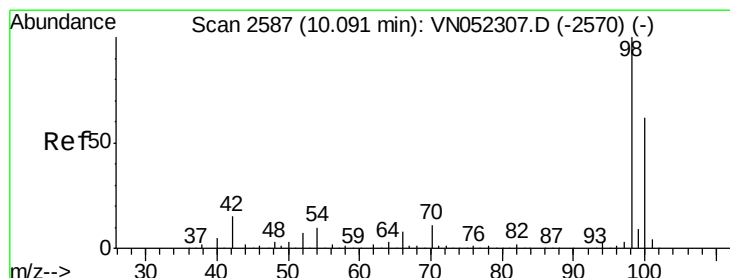
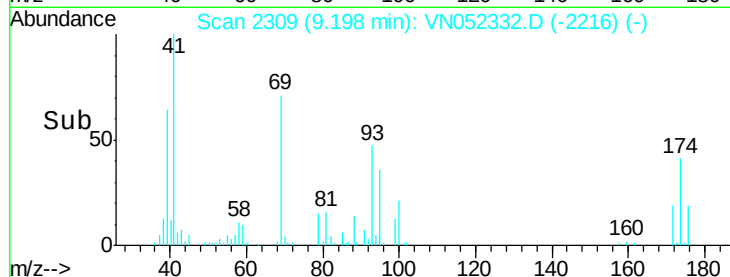
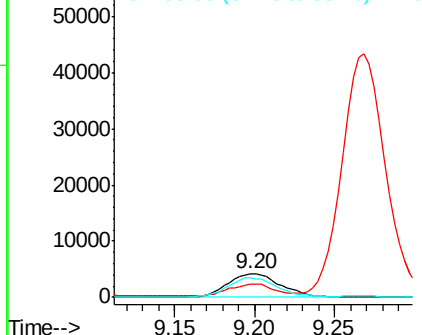


Abundance

Ion 88.00 (87.70 to 88.70): VN052332.D (-2216) (-)

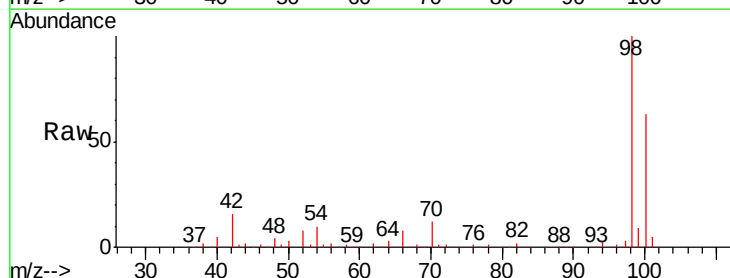
Ion 43.00 (42.70 to 43.70): VN052332.D (-2216) (-)

Ion 58.00 (57.70 to 58.70): VN052332.D (-2216) (-)



#50
Toluene-d8
Concen: 384.39 ug/l
RT: 10.09 min Scan# 2586
Delta R.T. -0.00 min
Lab File: VN052332.D
Acq: 15 Nov 2018 10:23

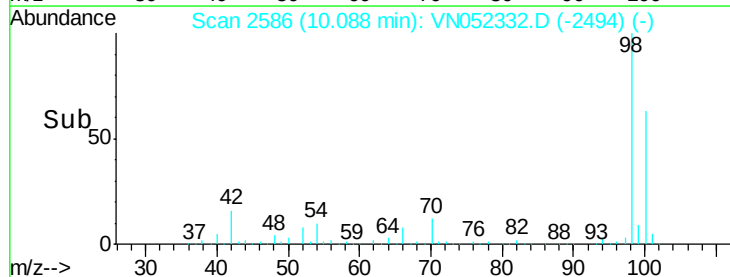
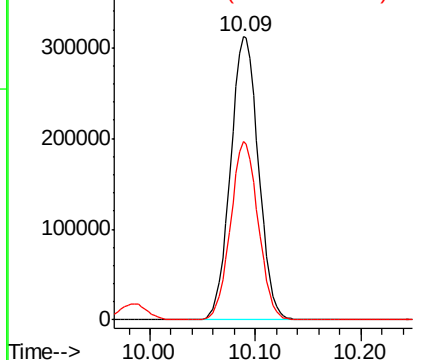
Tgt Ion	Ratio	Lower	Upper
98	100		
100	62.3	49.5	74.3

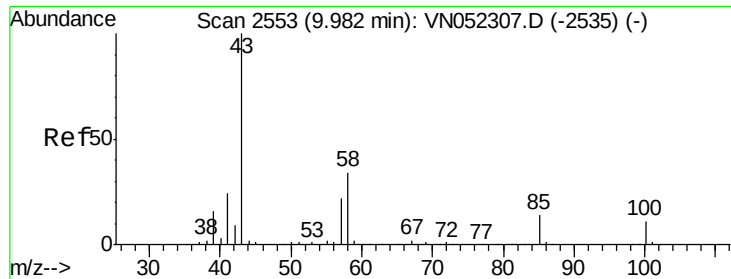


Abundance

Ion 98.00 (97.70 to 98.70): VN052332.D (-2494) (-)

Ion 100.00 (99.70 to 100.70): VN052332.D (-2494) (-)





#51

4-Methyl-2-Pentanone

Concen: 95.06 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. 0.00 min

Lab File: VN052332.D

Acq: 15 Nov 2018 10:23

Instrument :

MSVOA_N

ClientSampleId :

VN1115WBS01

Tgt Ion: 43 Resp: 302394

Ion Ratio Lower Upper

43 100

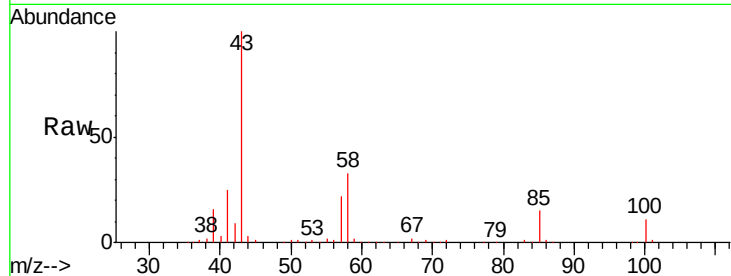
58 33.2 27.0 40.6

Manual Integrations

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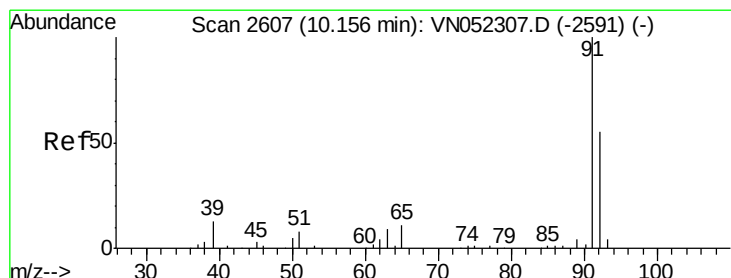
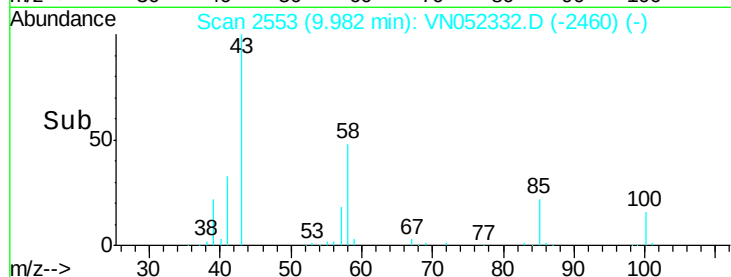
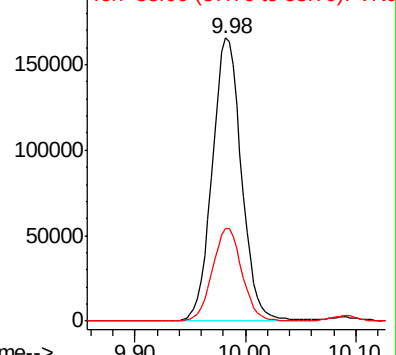
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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 19.22 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN052332.D

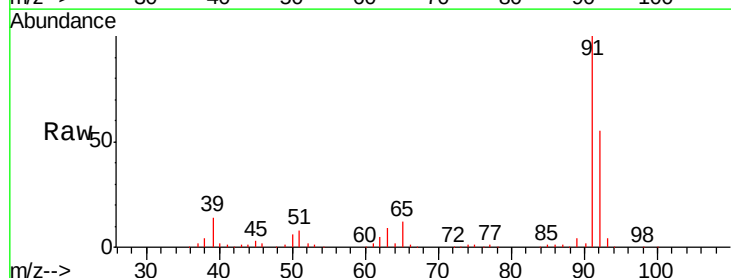
Acq: 15 Nov 2018 10:23

Tgt Ion: 92 Resp: 148236

Ion Ratio Lower Upper

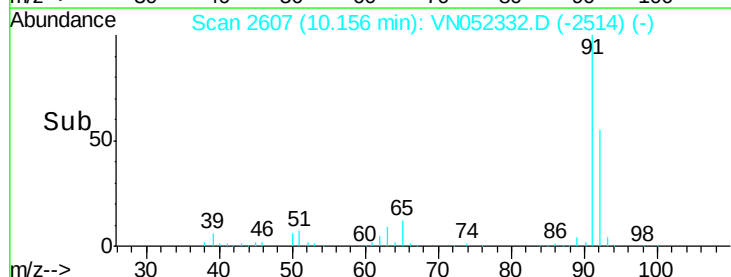
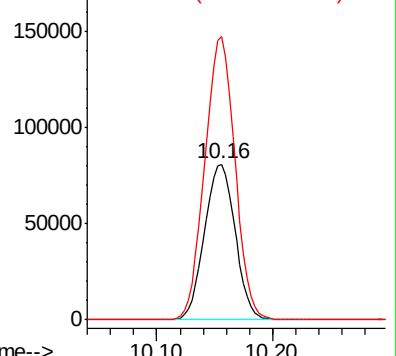
92 100

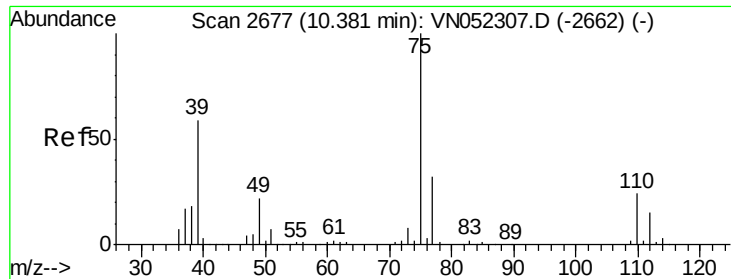
91 179.2 143.6 215.4



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





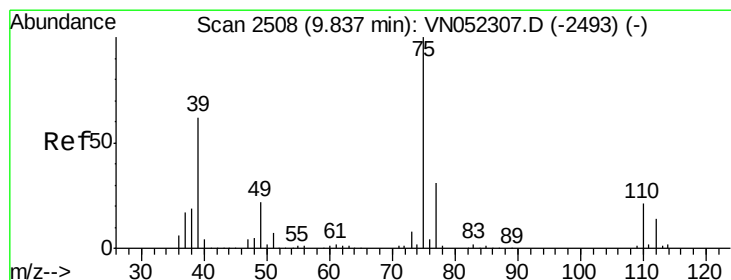
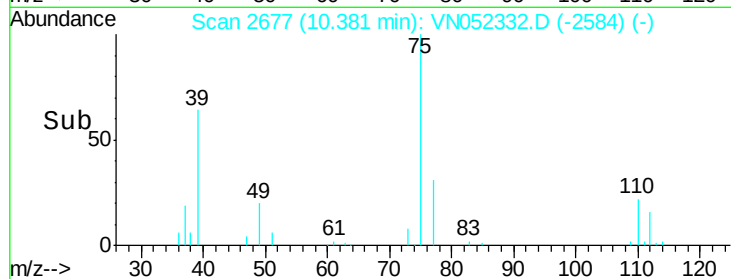
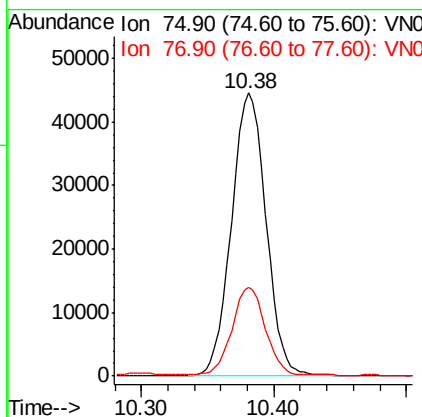
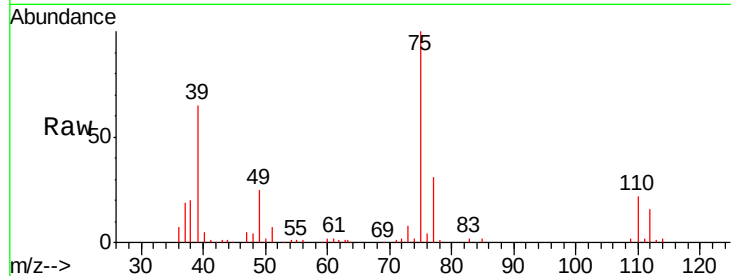
#53
t-1,3-Dichloropropene
Concen: 18.42 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. 0.00 min
Lab File: VN052332.D
Acq: 15 Nov 2018 10:23

Instrument :
MSVOA_N
ClientSampleId :
VN1115WBS01

Tgt Ion: 75 Resp: 80744
Ion Ratio Lower Upper
75 100
77 31.0 25.7 38.5

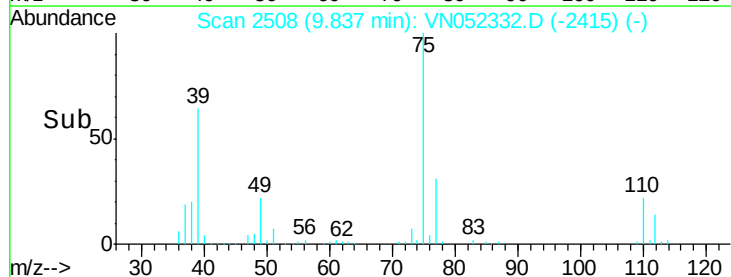
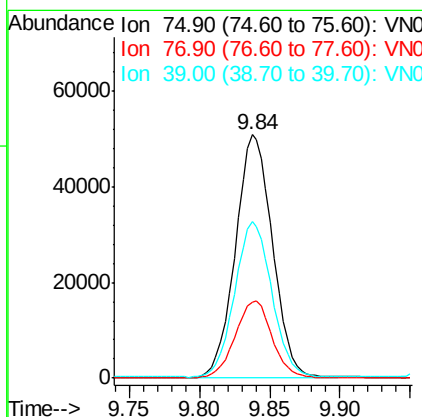
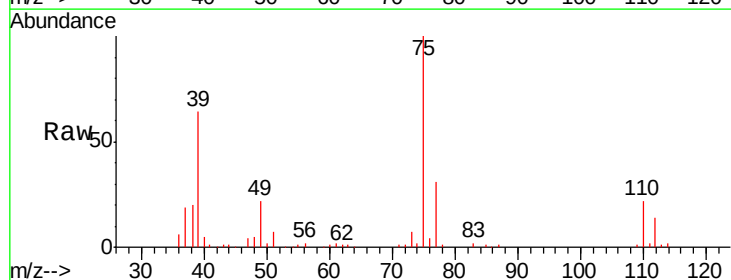
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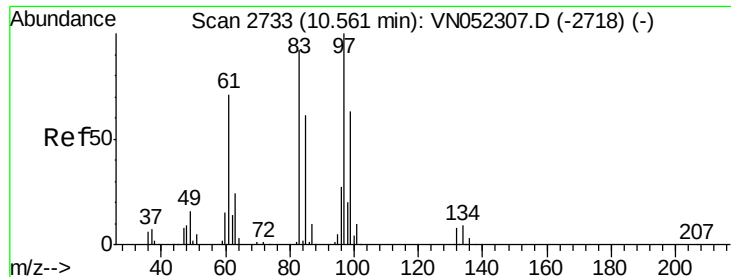
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#54
cis-1,3-Dichloropropene
Concen: 18.81 ug/l
RT: 9.84 min Scan# 2508
Delta R.T. 0.00 min
Lab File: VN052332.D
Acq: 15 Nov 2018 10:23

Tgt Ion: 75 Resp: 93991
Ion Ratio Lower Upper
75 100
77 31.4 24.6 36.8
39 63.7 49.9 74.9





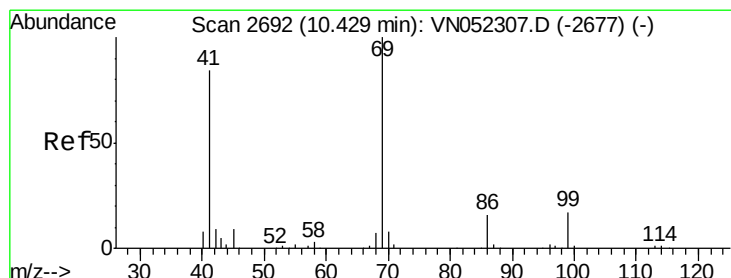
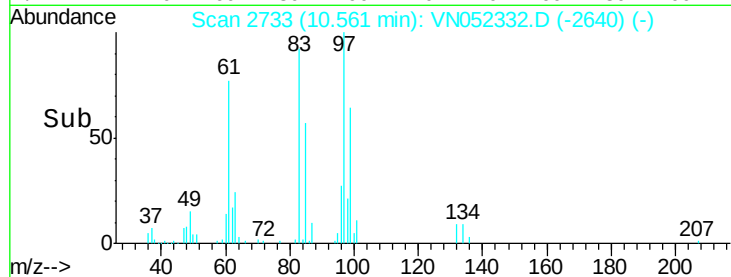
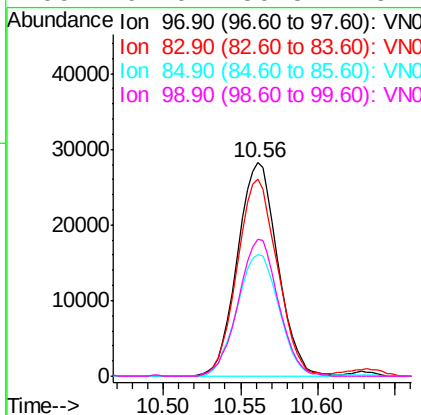
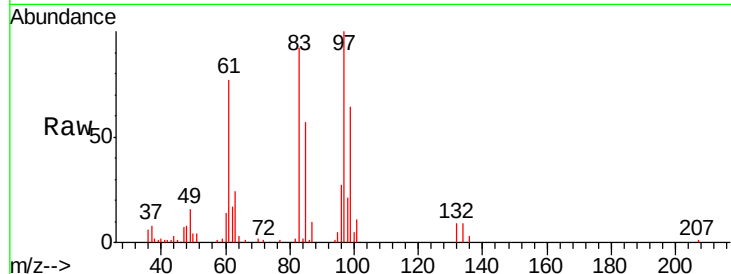
#55
 1,1,2-Trichloroethane
 Concen: 18.34 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. 0.00 min
 Lab File: VN052332.D
 Acq: 15 Nov 2018 10:23

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1115WBS01

Tgt Ion	Ratio	Lower	Upper
97	100		
83	92.2	73.8	110.6
85	57.1	49.0	73.4
99	64.0	50.5	75.7

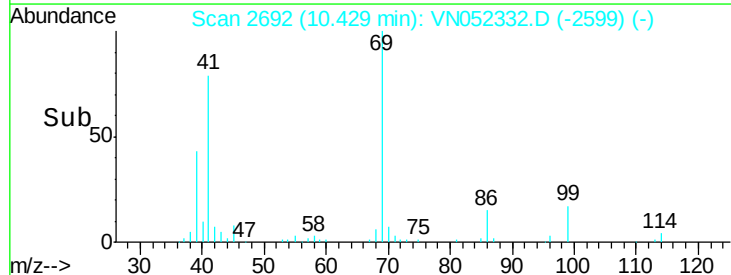
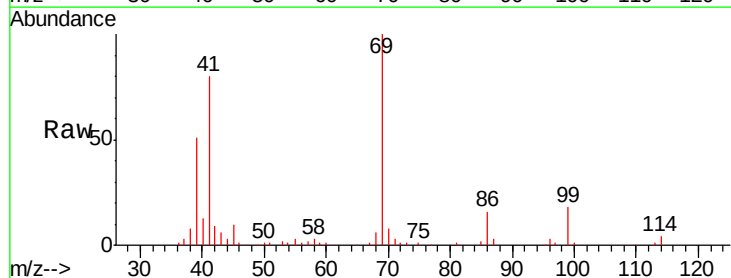
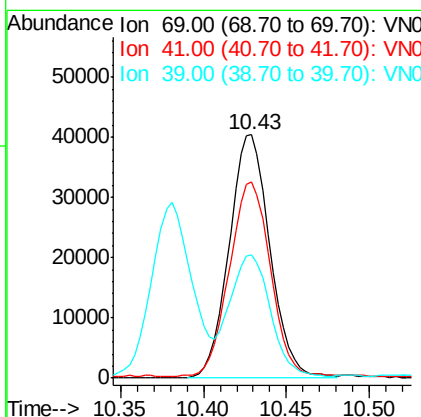
Manual Integrations
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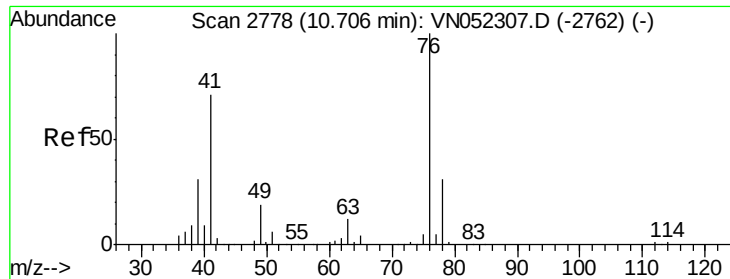
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#56
 Ethyl methacrylate
 Concen: 18.80 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN052332.D
 Acq: 15 Nov 2018 10:23

Tgt Ion	Ratio	Lower	Upper
69	100		
41	80.5	64.8	97.2
39	49.5	41.0	61.6





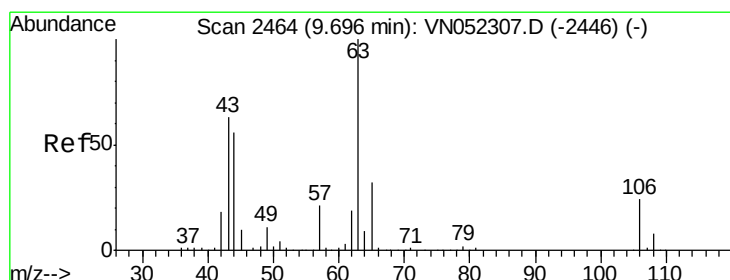
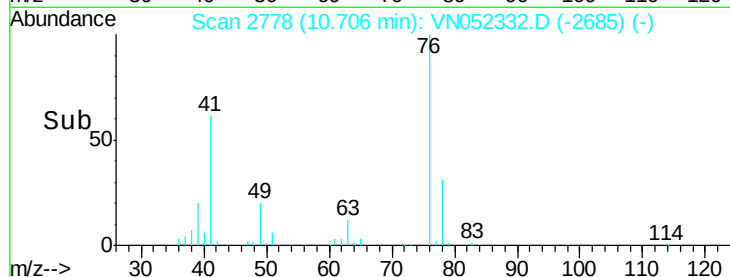
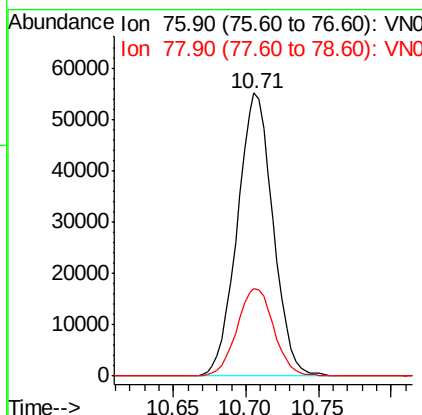
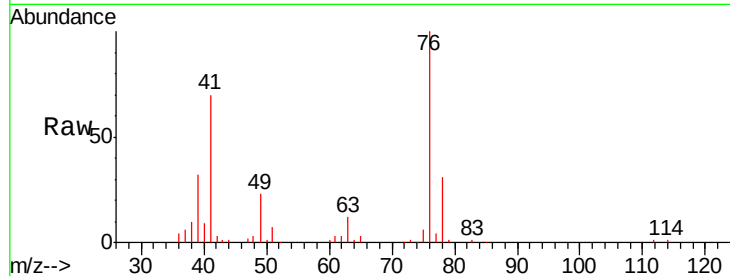
#57
 1,3-Dichloropropane
 Concen: 19.06 ug/l
 RT: 10.71 min Scan# 2778
 Delta R.T. 0.00 min
 Lab File: VN052332.D
 Acq: 15 Nov 2018 10:23

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1115WBS01

Tgt Ion: 76 Resp: 94386
 Ion Ratio Lower Upper
 76 100
 78 32.0 25.7 38.5

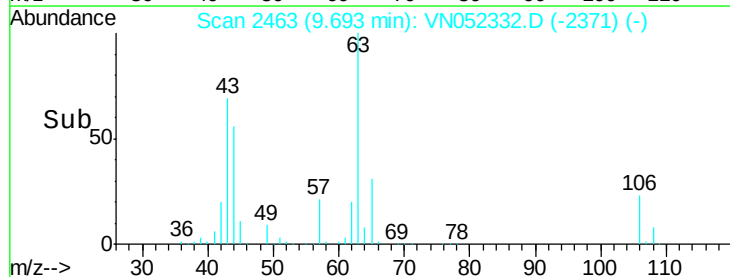
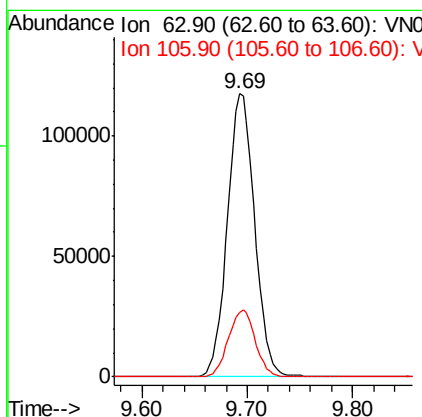
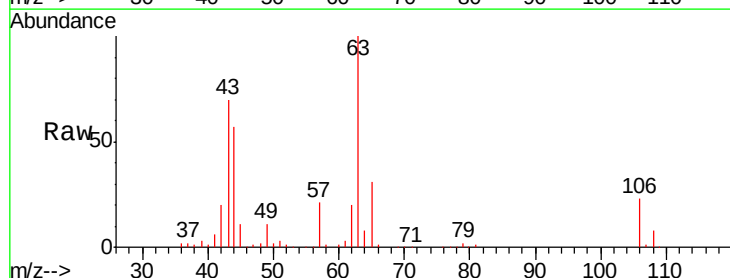
Manual Integrations
 APPROVED

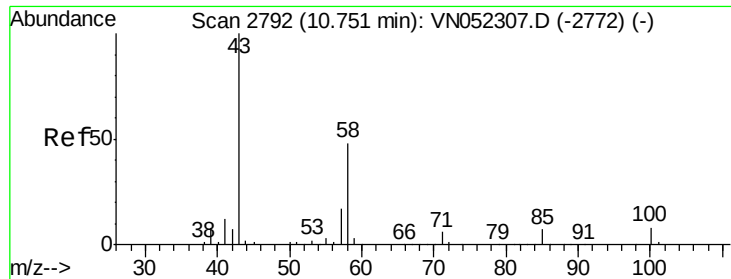
MMDadoda
 11/16/2018 4:06:52 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 100.53 ug/l
 RT: 9.69 min Scan# 2463
 Delta R.T. -0.00 min
 Lab File: VN052332.D
 Acq: 15 Nov 2018 10:23

Tgt Ion: 63 Resp: 210437
 Ion Ratio Lower Upper
 63 100
 106 23.3 19.3 28.9





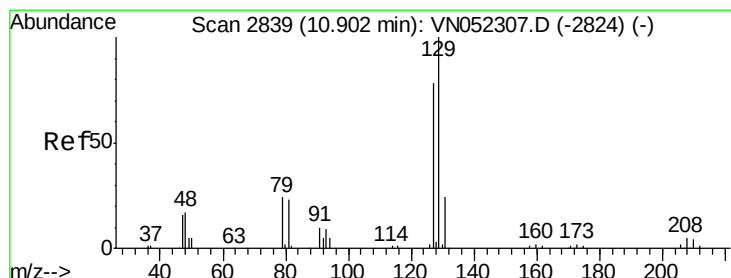
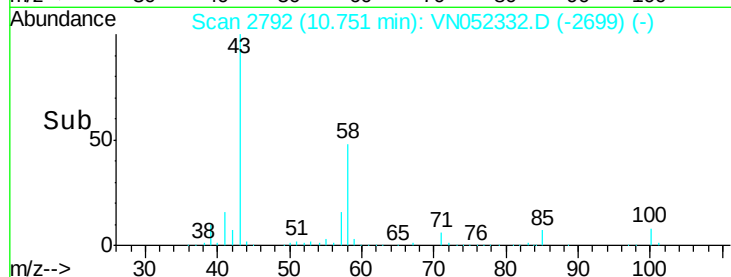
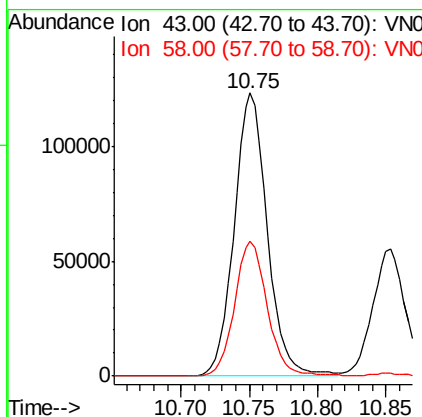
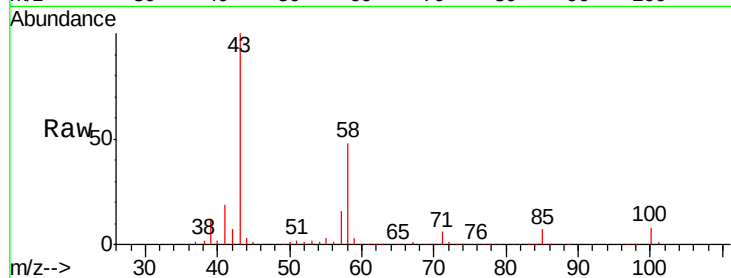
#59
2-Hexanone
Concen: 93.70 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. -0.00 min
Lab File: VN052332.D
Acq: 15 Nov 2018 10:23

Instrument :
MSVOA_N
ClientSampleId :
VN1115WBS01

Tgt Ion: 43 Resp: 205015
Ion Ratio Lower Upper
43 100
58 47.5 23.5 70.6

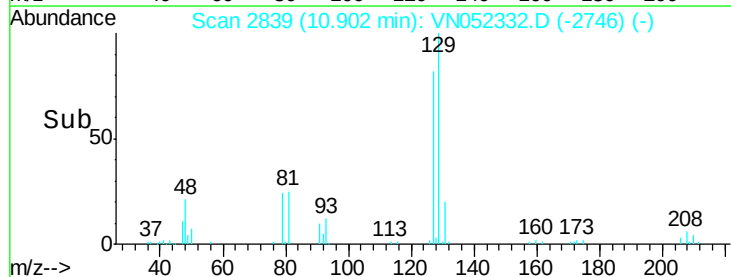
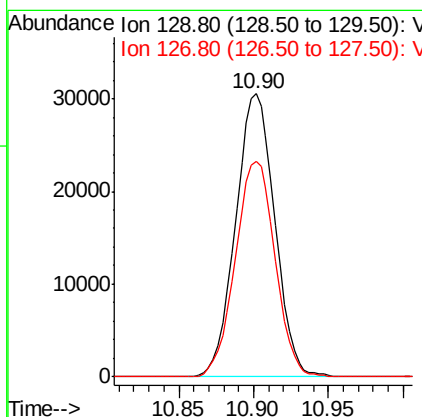
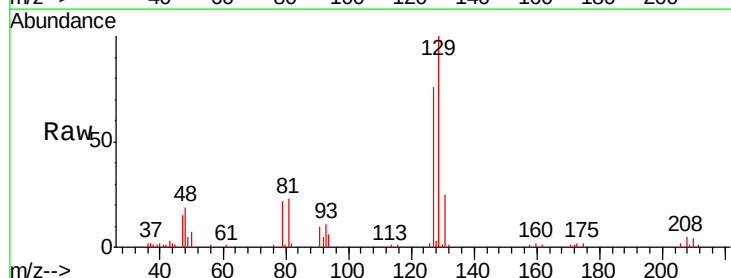
Manual Integrations
APPROVED

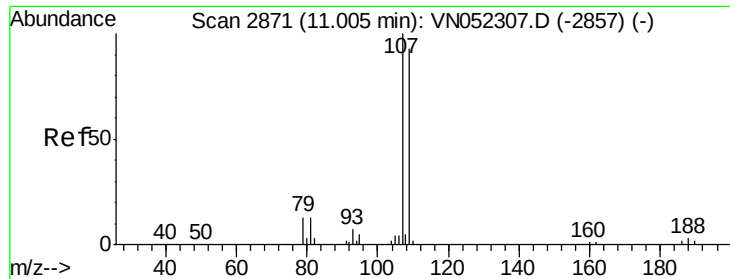
MMDadoda
11/16/2018 4:06:52 PM



#60
Dibromochloromethane
Concen: 18.39 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN052332.D
Acq: 15 Nov 2018 10:23

Tgt Ion: 129 Resp: 55633
Ion Ratio Lower Upper
129 100
127 77.2 38.5 115.5





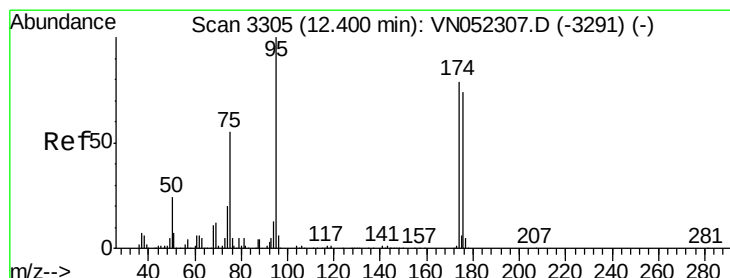
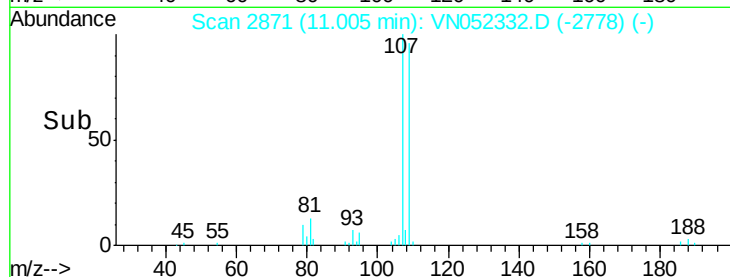
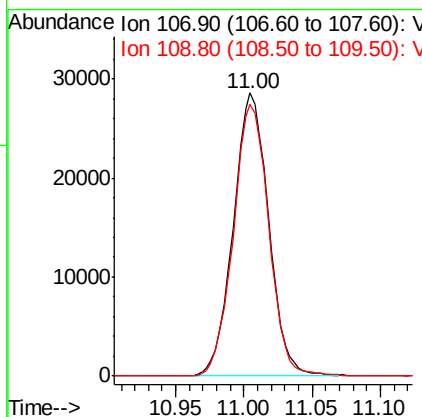
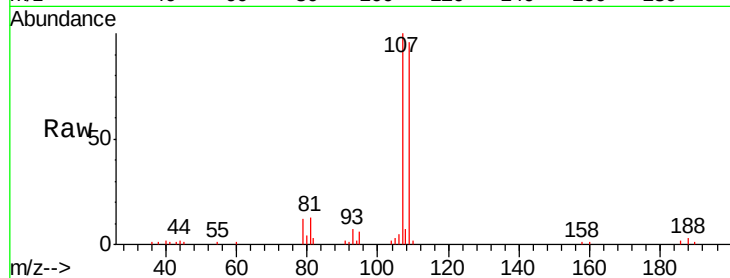
#61
 1,2-Dibromoethane
 Concen: 18.43 ug/l
 RT: 11.00 min Scan# 2871
 Delta R.T. 0.00 min
 Lab File: VN052332.D
 Acq: 15 Nov 2018 10:23

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1115WBS01

Tgt Ion	Ratio	Lower	Upper
107	100		
109	96.4	74.9	112.3

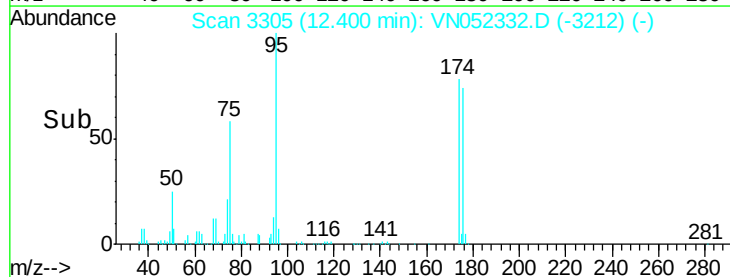
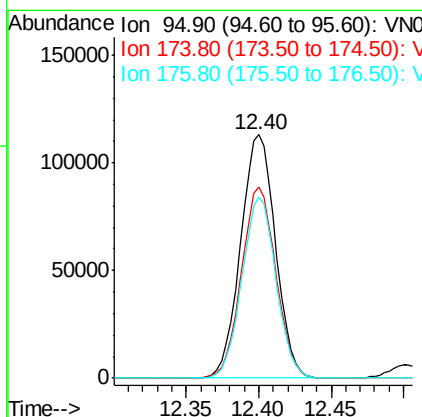
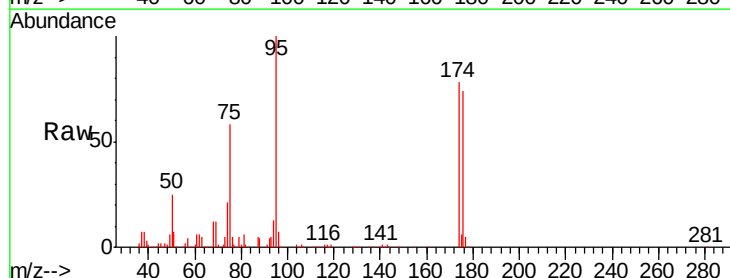
Manual Integrations
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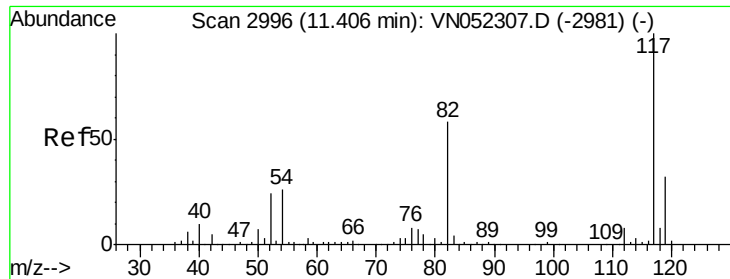
MMDadoda
 11/16/2018 4:06:52 PM



#62
 4-Bromofluorobenzene
 Concen: 18.43 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.00 min
 Lab File: VN052332.D
 Acq: 15 Nov 2018 10:23

Tgt Ion	Ratio	Lower	Upper
95	100		
174	77.7	0.0	156.0
176	73.0	0.0	148.4





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN052332.D

Acq: 15 Nov 2018 10:23

Instrument :

MSVOA_N

ClientSampleId :

VN1115WBS01

Tgt Ion:117 Resp: 403612

Ion Ratio Lower Upper

117 100

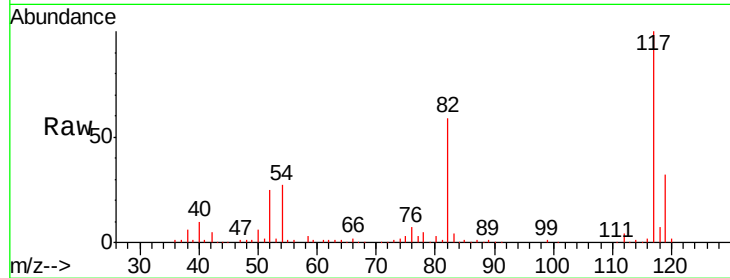
82 58.9 46.5 69.7

119 31.7 25.7 38.5

Manual Integrations
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MMDadoda

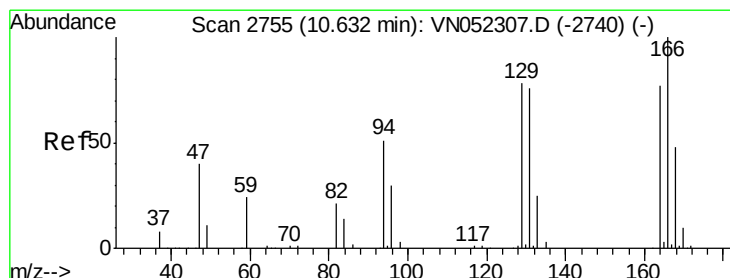
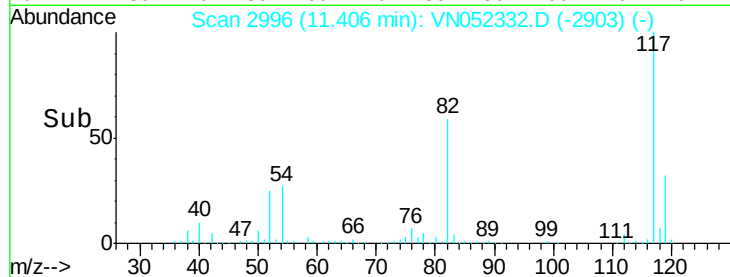
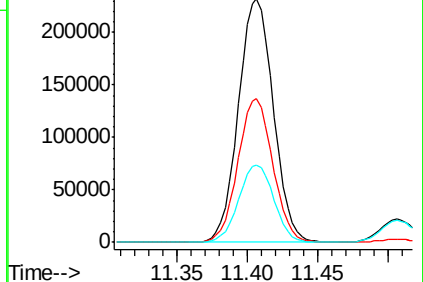
11/16/2018 4:06:52 PM



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN

Ion 118.90 (118.60 to 119.60): V



#64

Tetrachloroethene

Concen: 19.64 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. -0.00 min

Lab File: VN052332.D

Acq: 15 Nov 2018 10:23

Tgt Ion:164 Resp: 56344

Ion Ratio Lower Upper

164 100

166 124.2 103.8 155.6

129 97.8 80.7 121.1

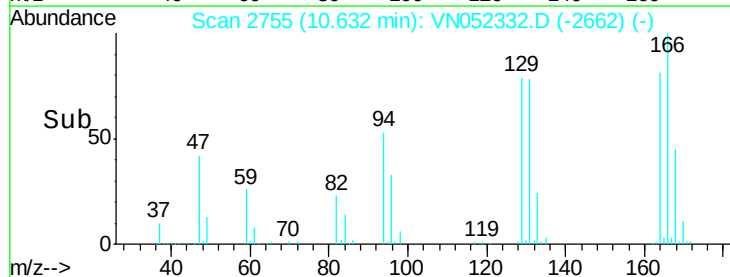
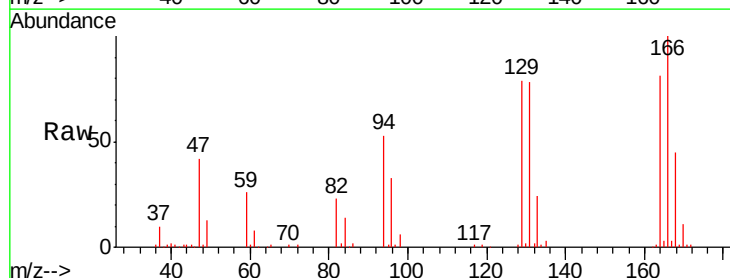
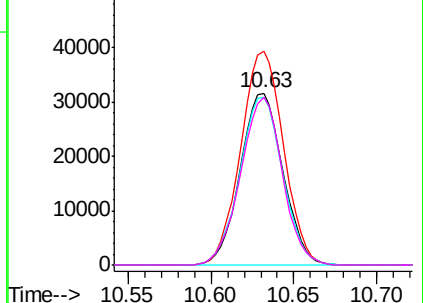
131 97.3 78.5 117.7

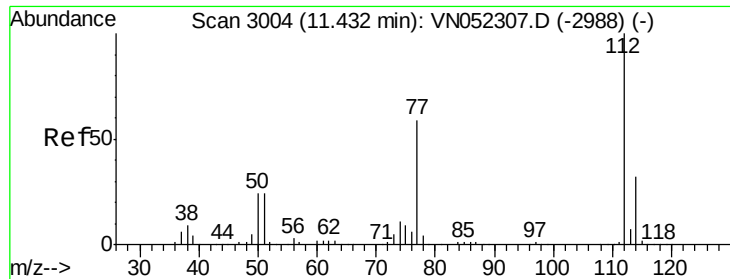
Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





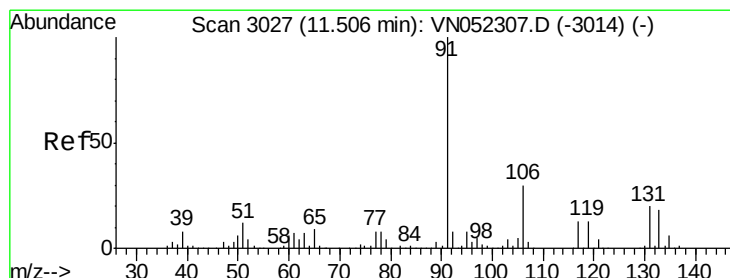
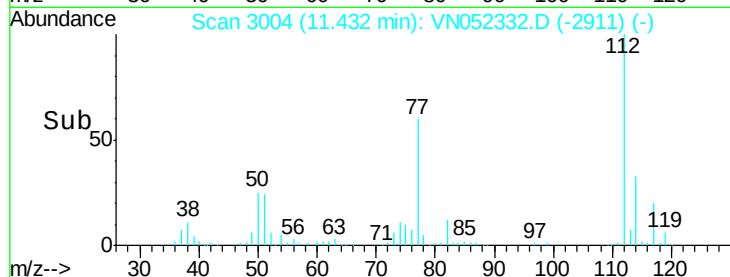
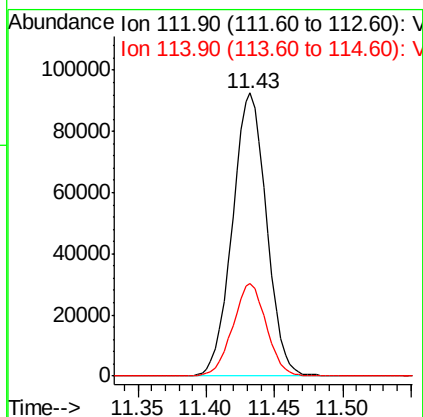
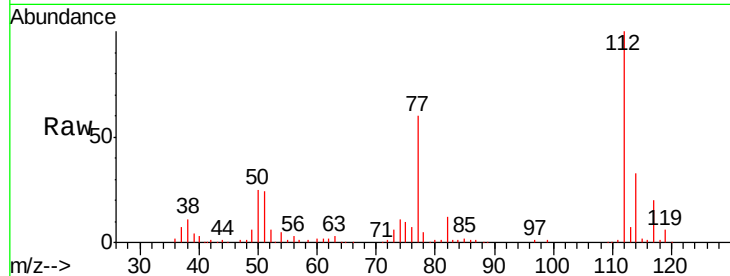
#65
Chlorobenzene
Concen: 18.81 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN052332.D
Acq: 15 Nov 2018 10:23

Instrument :
MSVOA_N
ClientSampled :
VN1115WBS01

Tgt Ion:112 Resp: 160504
Ion Ratio Lower Upper
112 100
114 32.8 25.9 38.9

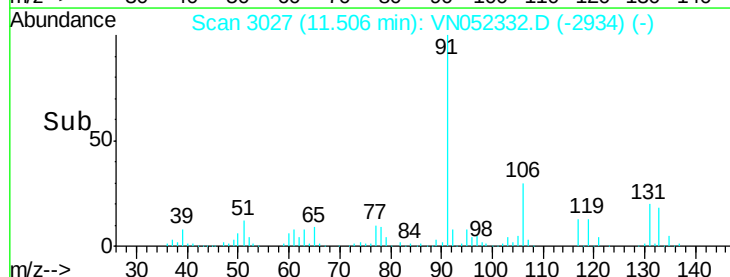
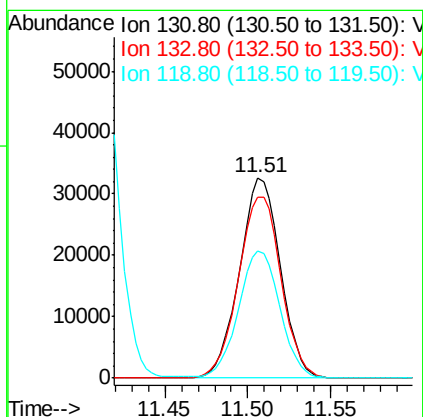
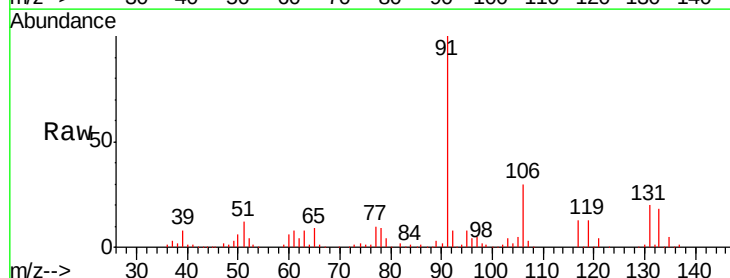
Manual Integrations
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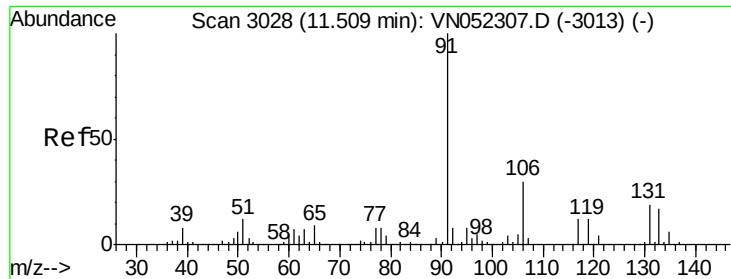
MMDadoda
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#66
1,1,1,2-Tetrachloroethane
Concen: 19.20 ug/l
RT: 11.51 min Scan# 3027
Delta R.T. 0.00 min
Lab File: VN052332.D
Acq: 15 Nov 2018 10:23

Tgt Ion:131 Resp: 55851
Ion Ratio Lower Upper
131 100
133 94.6 47.4 142.3
119 64.7 33.3 99.9





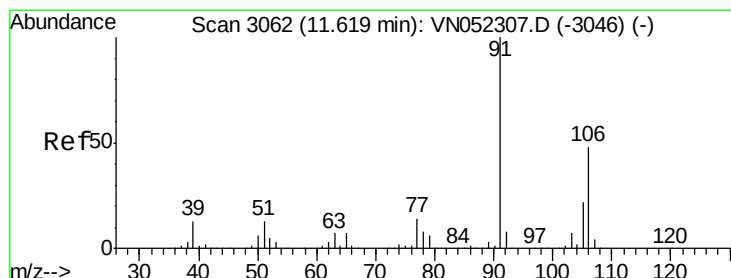
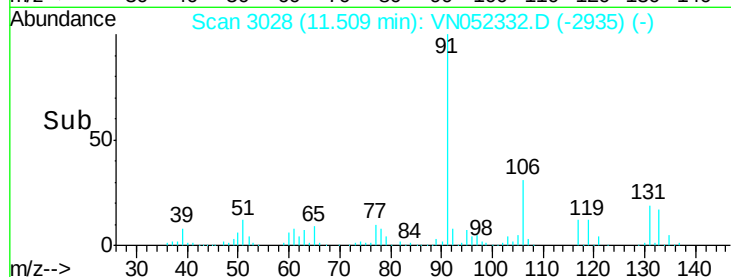
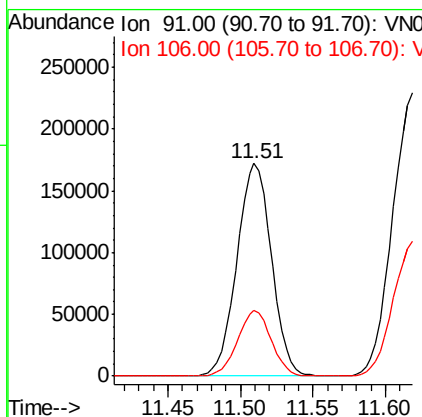
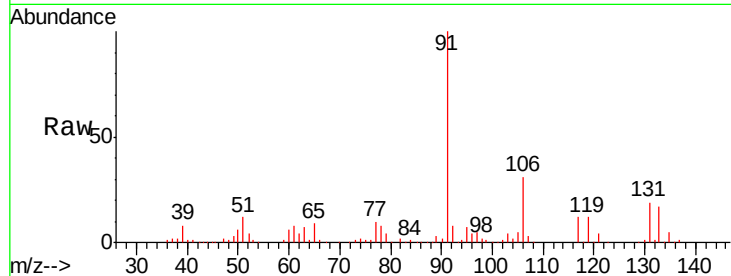
#67
Ethyl Benzene
Concen: 19.26 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN052332.D
Acq: 15 Nov 2018 10:23

Instrument :
MSVOA_N
ClientSampleId :
VN1115WBS01

Tgt Ion: 91 Resp: 285197
Ion Ratio Lower Upper
91 100
106 31.0 24.2 36.2

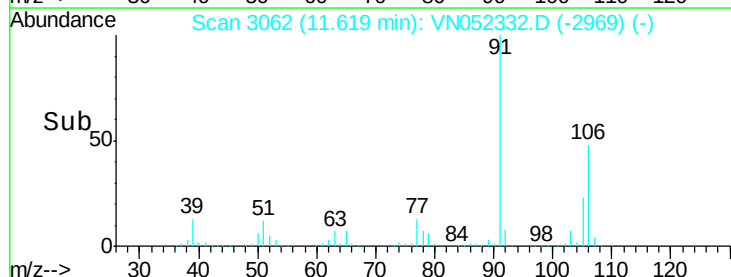
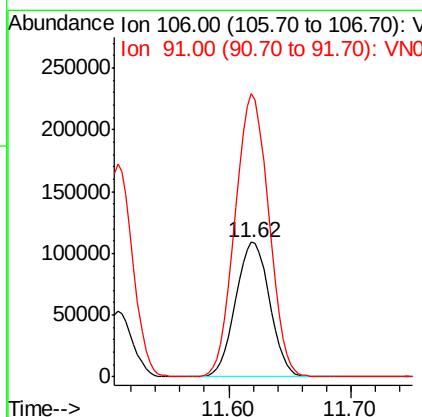
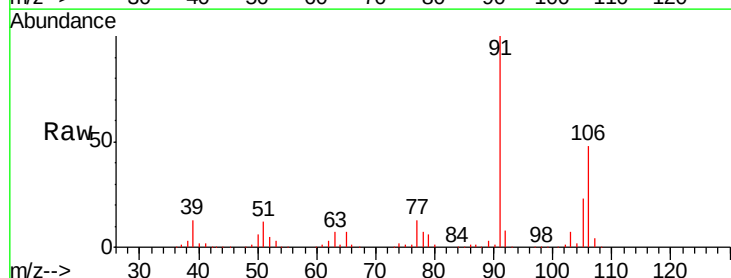
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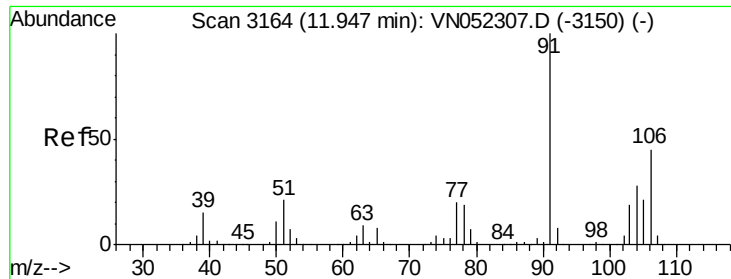
MMDadoda
11/16/2018 4:06:52 PM



#68
m/p-Xylenes
Concen: 38.93 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN052332.D
Acq: 15 Nov 2018 10:23

Tgt Ion: 106 Resp: 210598
Ion Ratio Lower Upper
106 100
91 208.0 165.5 248.3





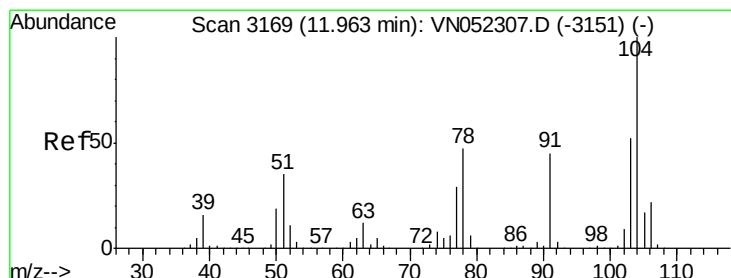
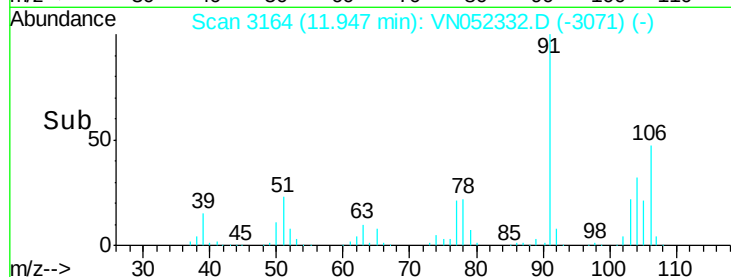
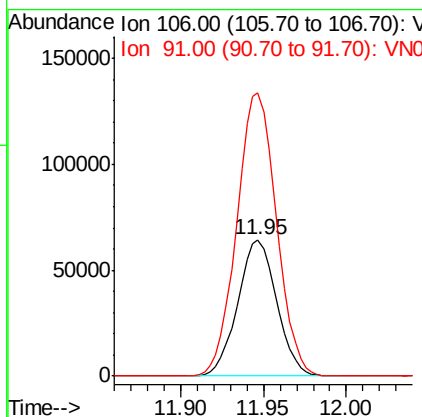
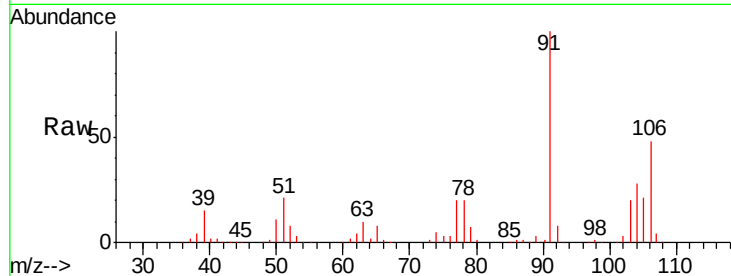
#69
o-Xylene
Concen: 20.25 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN052332.D
Acq: 15 Nov 2018 10:23

Instrument :
MSVOA_N
ClientSampleId :
VN1115WBS01

Tgt Ion:106 Resp: 104999
Ion Ratio Lower Upper
106 100
91 211.5 110.0 330.0

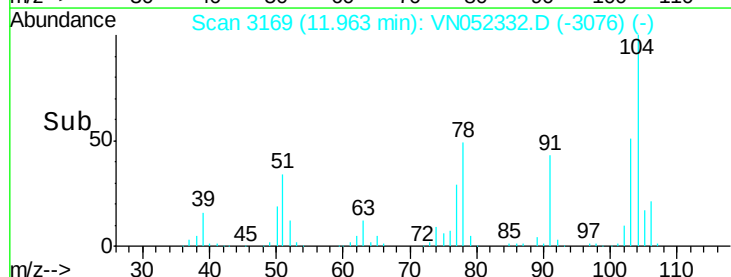
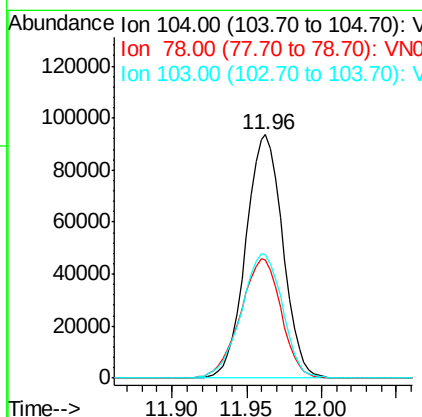
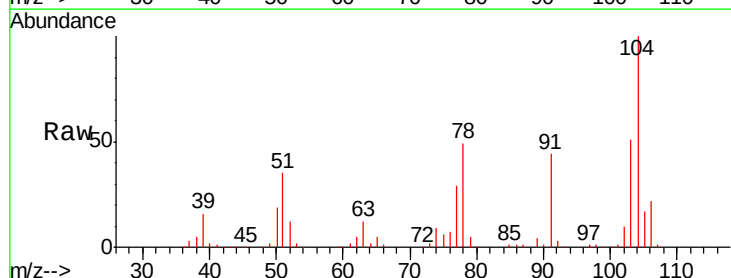
Manual Integrations
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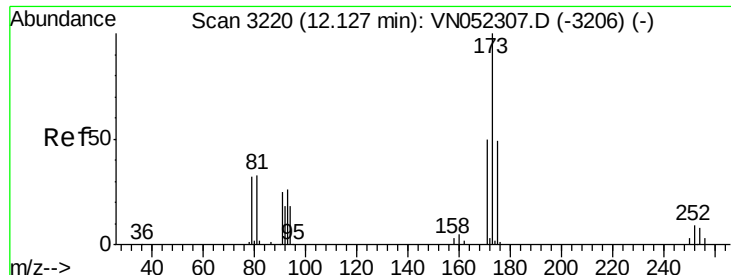
MMDadoda
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#70
Styrene
Concen: 19.38 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN052332.D
Acq: 15 Nov 2018 10:23

Tgt Ion:104 Resp: 160961
Ion Ratio Lower Upper
104 100
78 54.2 42.7 64.1
103 56.9 45.4 68.0





#71

Bromoform

Concen: 17.83 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN052332.D

Acq: 15 Nov 2018 10:23

Instrument :

MSVOA_N

ClientSampleId :

VN1115WBS01

Tgt Ion:173 Resp: 30635

Ion Ratio Lower Upper

173 100

175 50.7 25.0 75.0

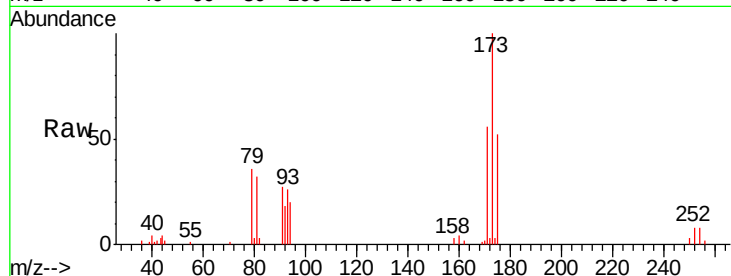
254 0.0 0.0 0.0

Manual Integrations

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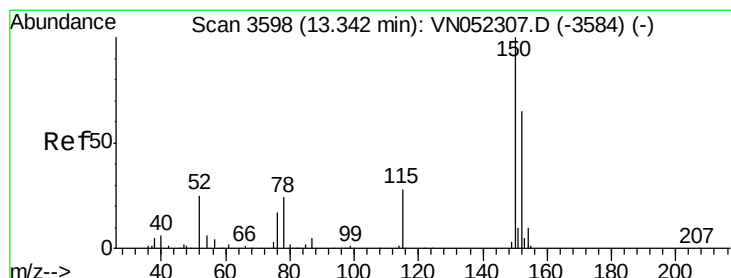
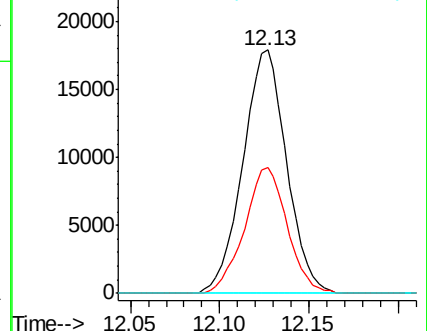
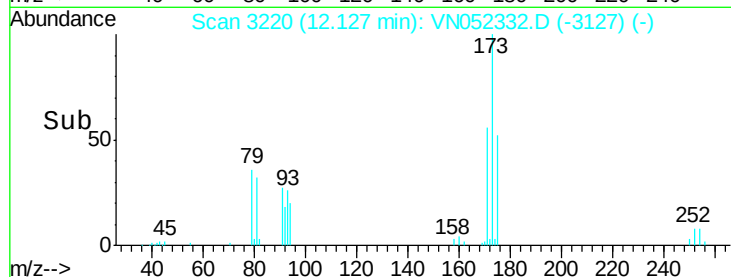
11/16/2018 4:06:52 PM



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: 50.00 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN052332.D

Acq: 15 Nov 2018 10:23

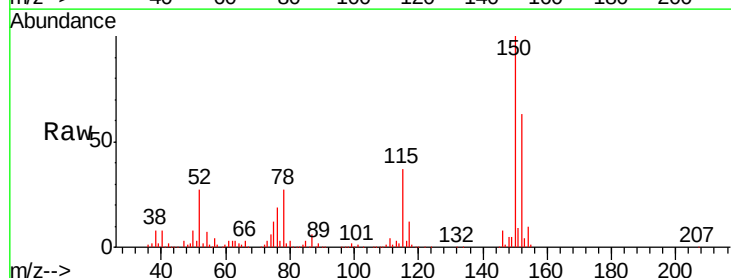
Tgt Ion:152 Resp: 176555

Ion Ratio Lower Upper

152 100

115 60.0 30.3 91.0

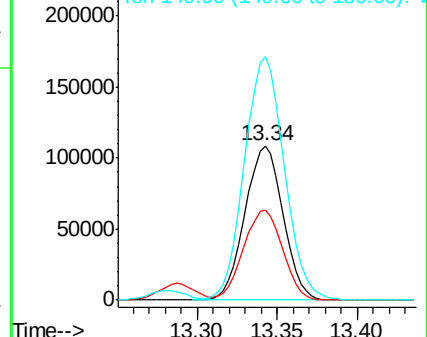
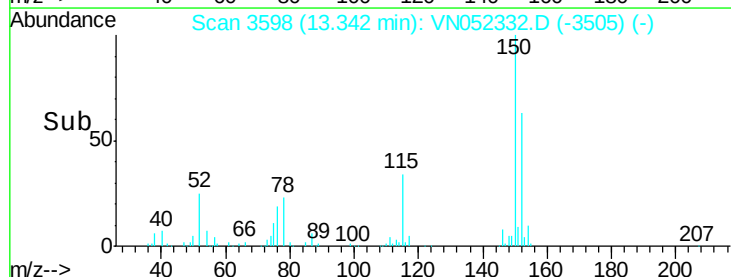
150 165.4 0.0 348.2

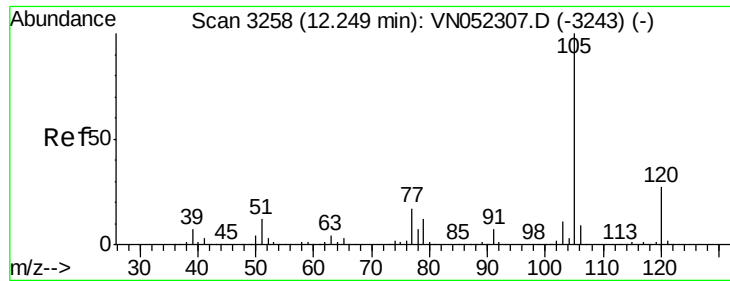


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 19.55 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN052332.D

Acq: 15 Nov 2018 10:23

Instrument :

MSVOA_N

ClientSampleId :

VN1115WBS01

Tgt Ion: 105 Resp: 277517

Ion Ratio Lower Upper

105 100

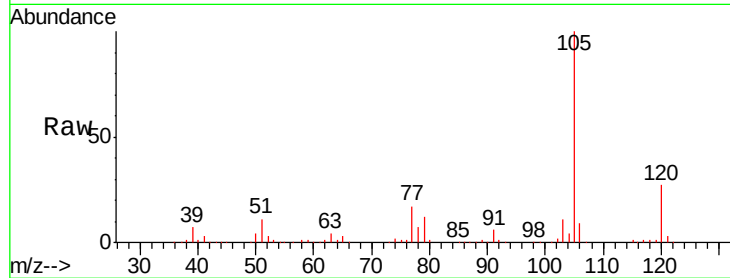
120 25.9 13.4 40.1

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

200000

150000

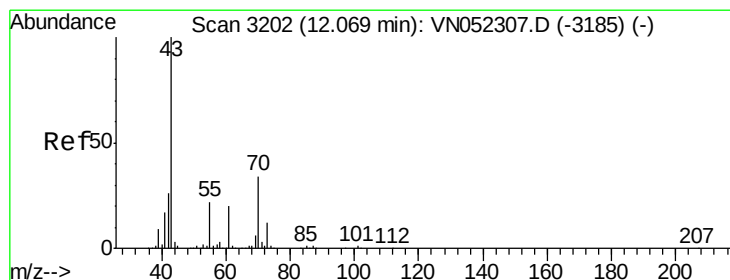
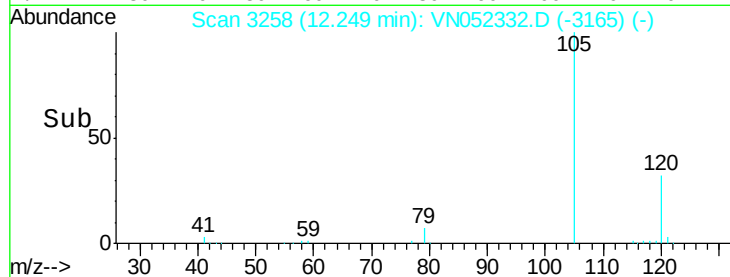
100000

50000

0

12.15 12.20 12.25 12.30

Time-->



#74

N-ethyl acetate

Concen: 18.50 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN052332.D

Acq: 15 Nov 2018 10:23

Tgt Ion: 43 Resp: 93540

Ion Ratio Lower Upper

43 100

70 34.2 27.1 40.7

55 23.1 17.4 26.0

61 19.4 16.1 24.1

Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V

80000

60000

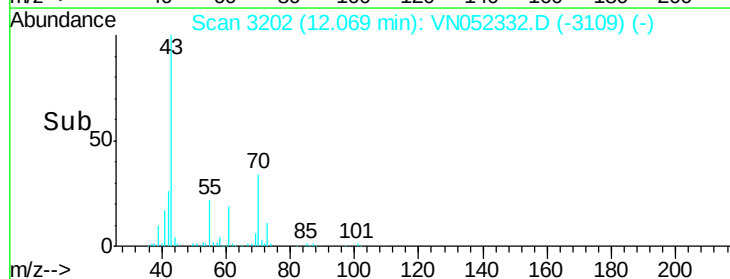
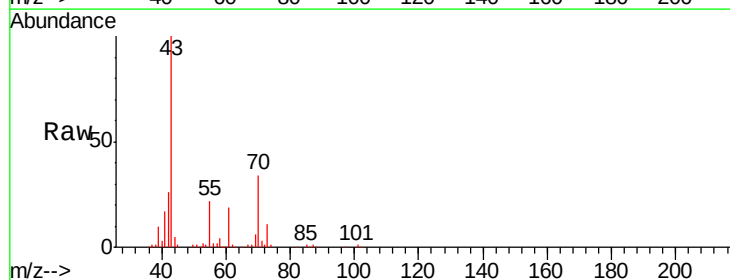
40000

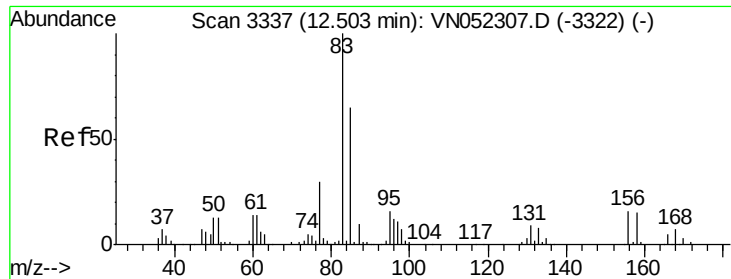
20000

0

12.00 12.05 12.10 12.15

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 18.57 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN052332.D

Acq: 15 Nov 2018 10:23

Instrument :

MSVOA_N

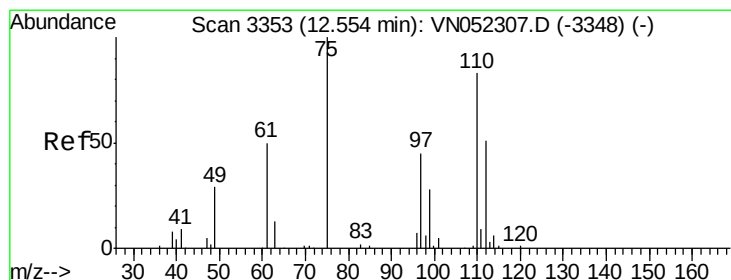
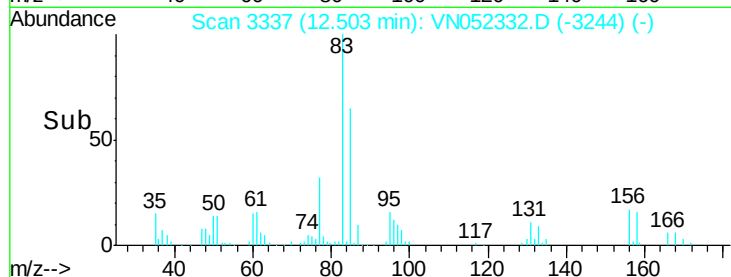
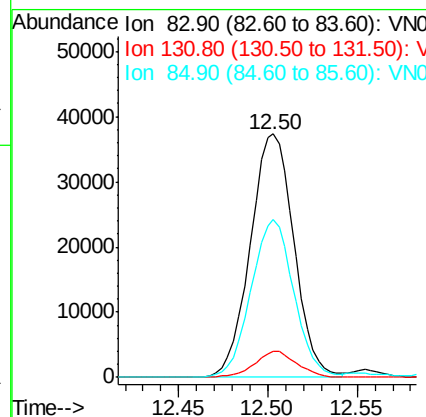
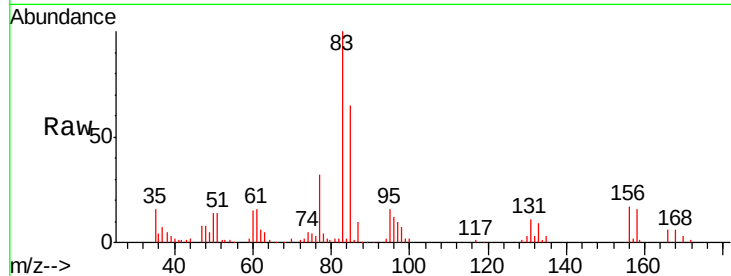
ClientSampleId :

VN1115WBS01

Tgt Ion:	83	Resp:	63730
Ion	Ratio	Lower	Upper
83	100		
131	10.2	4.7	14.1
85	63.6	32.4	97.2

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 19.91 ug/l m

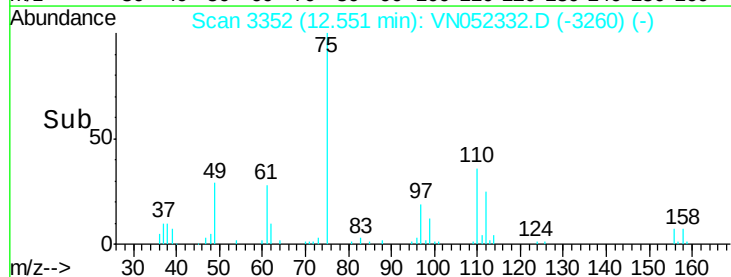
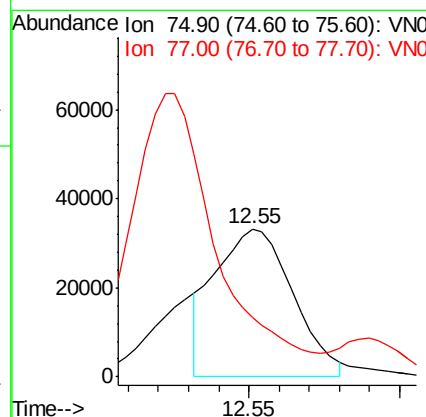
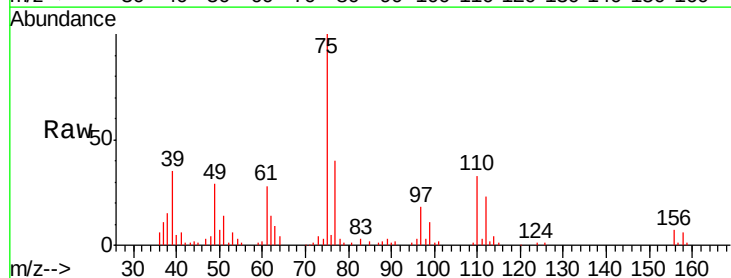
RT: 12.55 min Scan# 3352

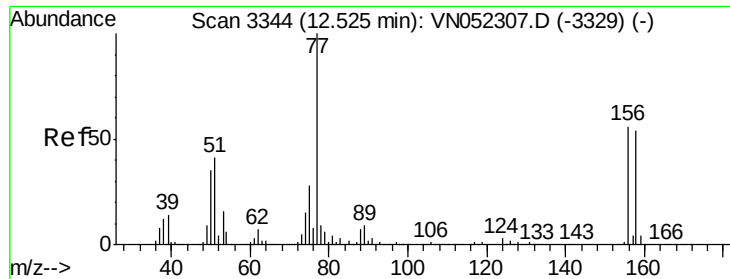
Delta R.T. -0.00 min

Lab File: VN052332.D

Acq: 15 Nov 2018 10:23

Tgt Ion:	75	Resp:	59640
Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 18.52 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN052332.D

Acq: 15 Nov 2018 10:23

Instrument :

MSVOA_N

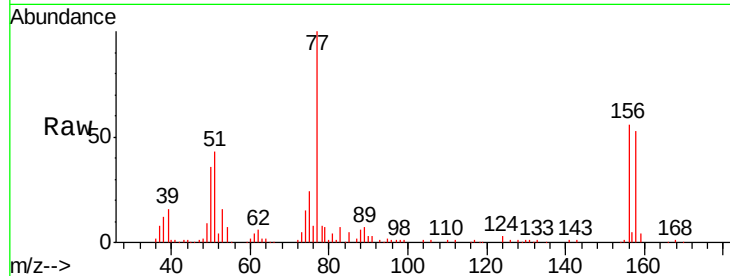
ClientSampleId :

VN1115WBS01

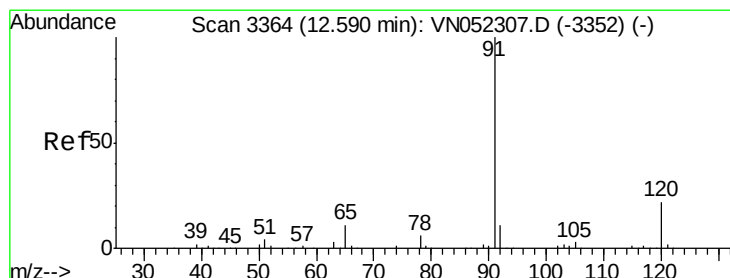
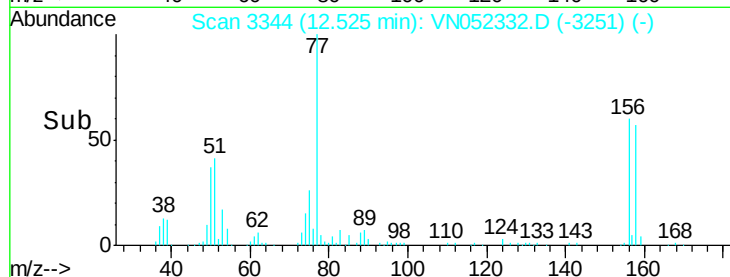
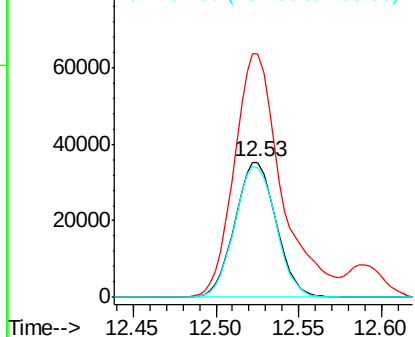
Tgt Ion: 156 Resp: 61165
 Ion Ratio Lower Upper
 156 100
 77 206.9 103.6 310.9
 158 97.1 48.1 144.4

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Abundance Ion 155.80 (155.50 to 156.50): V
 Ion 77.00 (76.70 to 77.70): VN0
 Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 19.32 ug/l

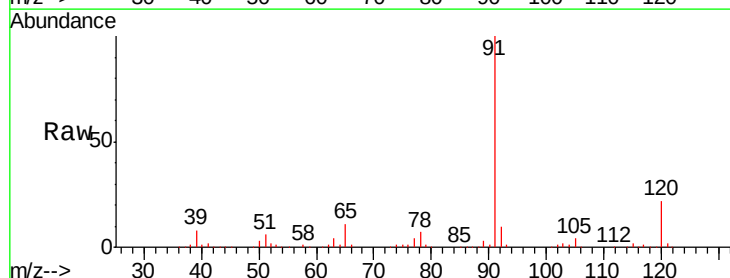
RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

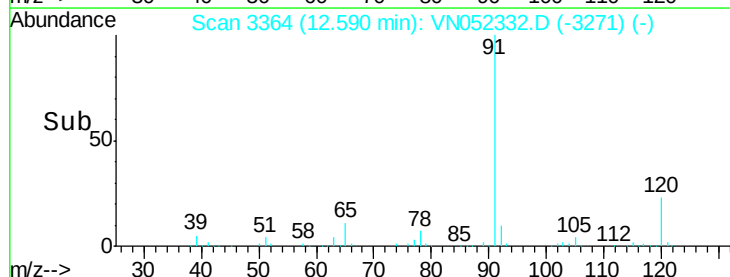
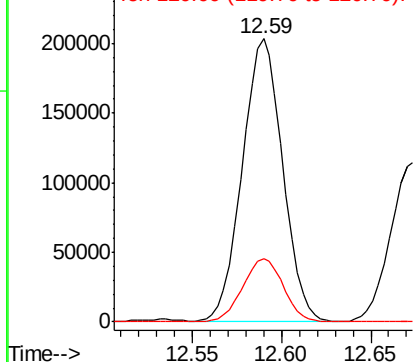
Lab File: VN052332.D

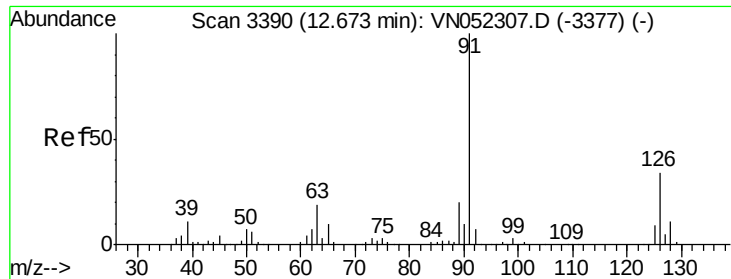
Acq: 15 Nov 2018 10:23

Tgt Ion: 91 Resp: 320761
 Ion Ratio Lower Upper
 91 100
 120 22.7 11.1 33.1



Abundance Ion 91.00 (90.70 to 91.70): VN0
 Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 19.45 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN052332.D

Acq: 15 Nov 2018 10:23

Instrument :

MSVOA_N

ClientSampleId :

VN1115WBS01

Tgt Ion: 91 Resp: 188588

Ion Ratio Lower Upper

91 100

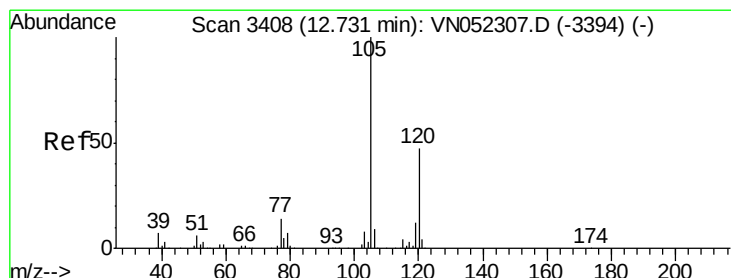
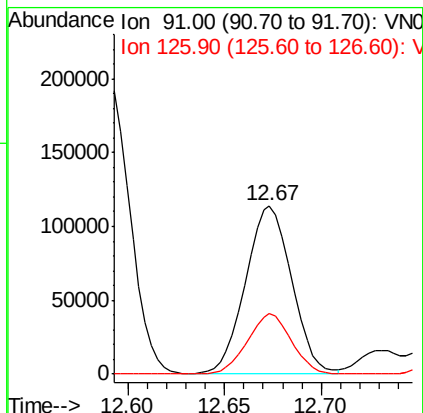
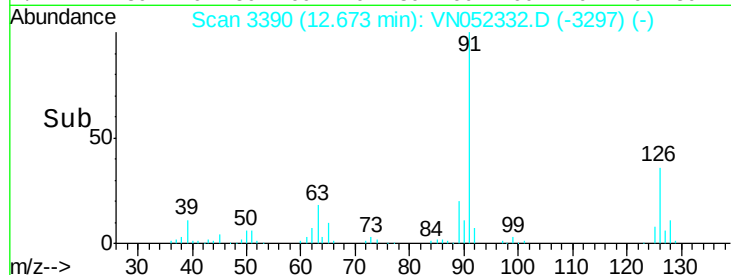
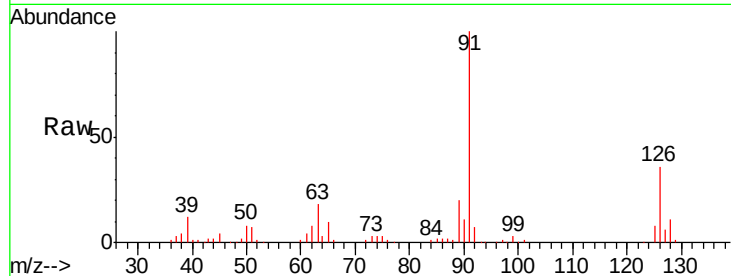
126 34.4 17.0 51.0

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#80

1,3,5-Trimethylbenzene

Concen: 20.06 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN052332.D

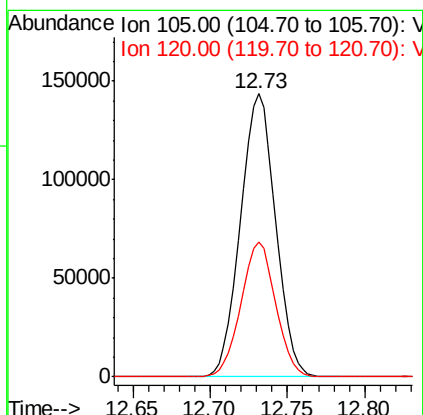
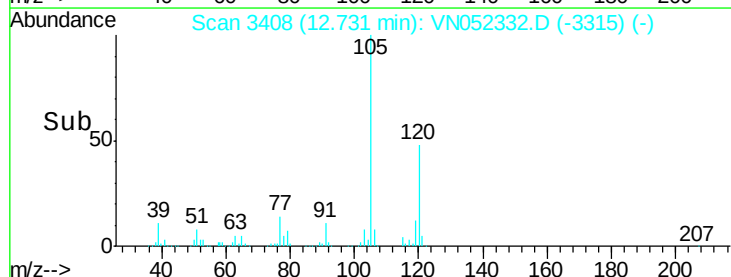
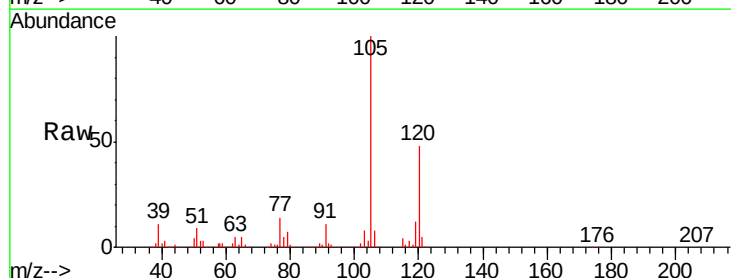
Acq: 15 Nov 2018 10:23

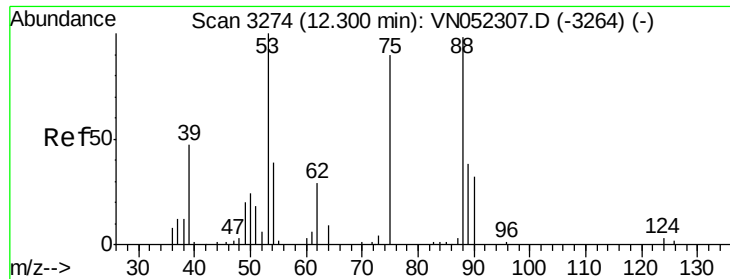
Tgt Ion: 105 Resp: 226464

Ion Ratio Lower Upper

105 100

120 47.2 23.7 71.1





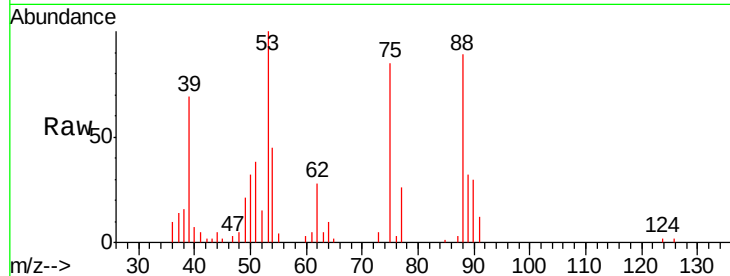
#81
trans-1,4-Dichloro-2-butene
Concen: 16.76 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. 0.00 min
Lab File: VN052332.D
Acq: 15 Nov 2018 10:23

Instrument :
MSVOA_N
ClientSampleId :
VN1115WBS01

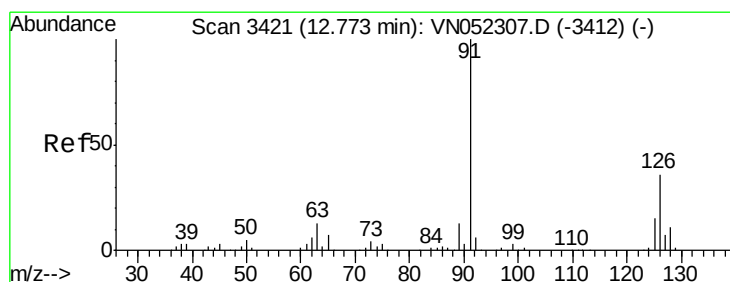
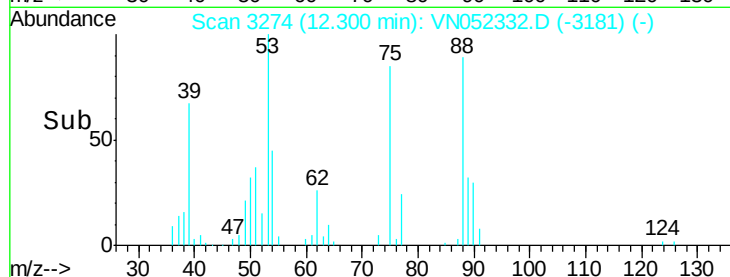
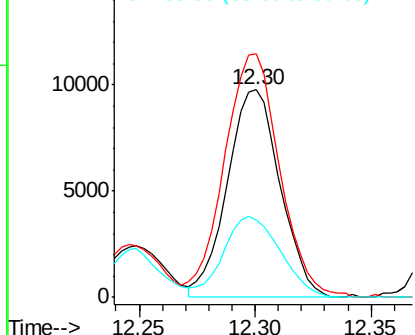
Tgt Ion: 75 Resp: 15478
Ion Ratio Lower Upper
75 100
53 122.9 90.2 135.2
89 42.0 35.4 53.0

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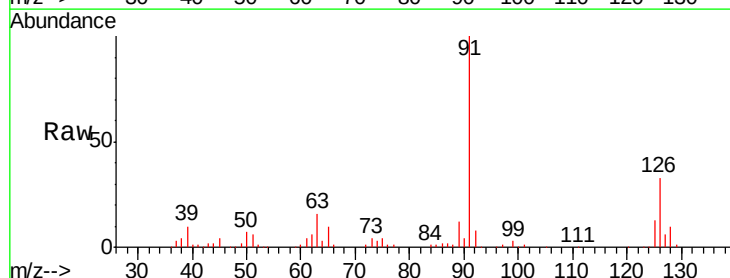


Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 53.00 (52.70 to 53.70): VN0
Ion 88.90 (88.60 to 89.60): VN0

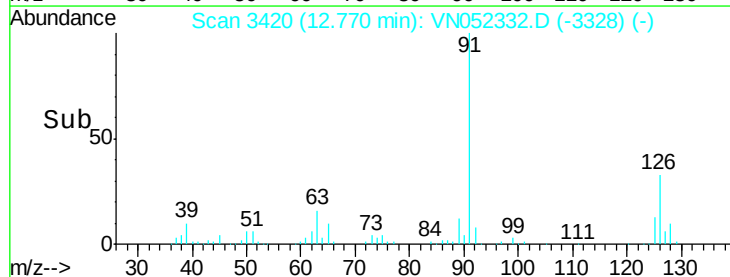
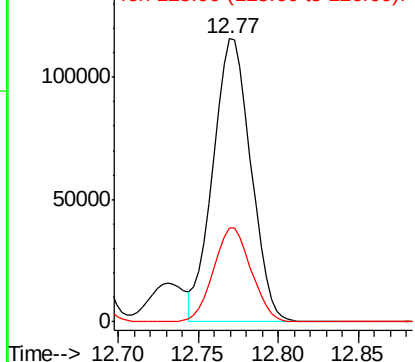


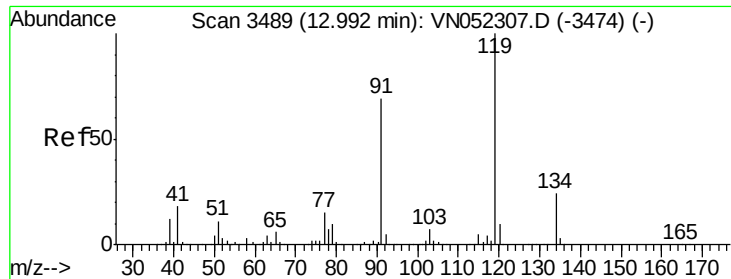
#82
4-Chlorotoluene
Concen: 19.07 ug/l
RT: 12.77 min Scan# 3420
Delta R.T. -0.00 min
Lab File: VN052332.D
Acq: 15 Nov 2018 10:23

Tgt Ion: 91 Resp: 189499
Ion Ratio Lower Upper
91 100
126 32.8 17.0 50.9



Abundance Ion 91.00 (90.70 to 91.70): VN0
Ion 125.90 (125.60 to 126.60): V





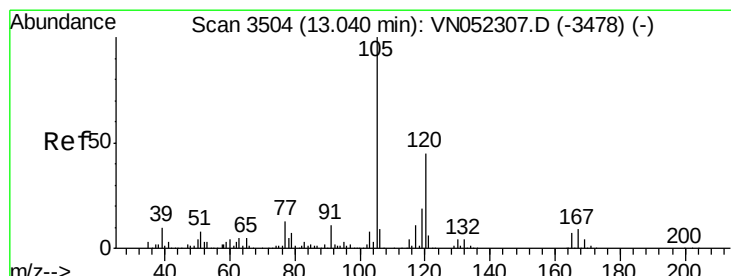
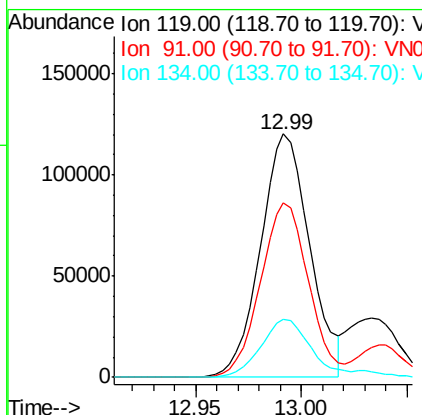
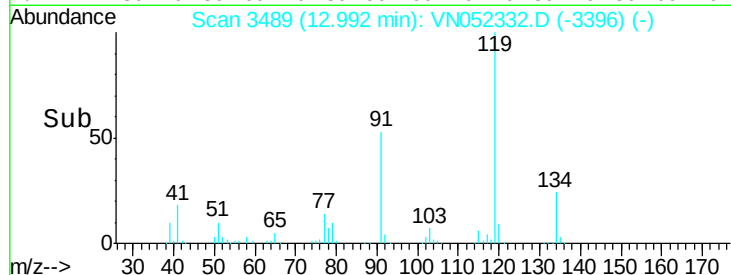
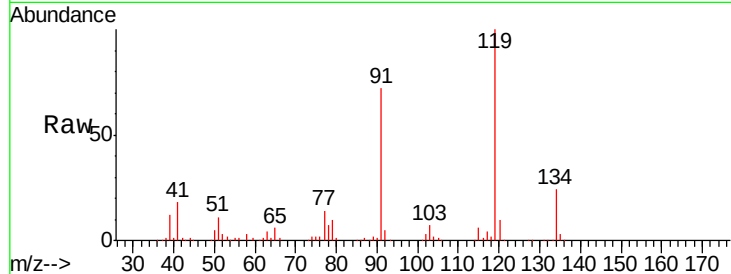
#83
 tert-Butylbenzene
 Concen: 19.59 ug/l
 RT: 12.99 min Scan# 3489
 Delta R.T. 0.00 min
 Lab File: VN052332.D
 Acq: 15 Nov 2018 10:23

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1115WBS01

Tgt Ion	Ratio	Lower	Upper
119	100		
91	70.4	33.8	101.3
134	25.7	11.9	35.9

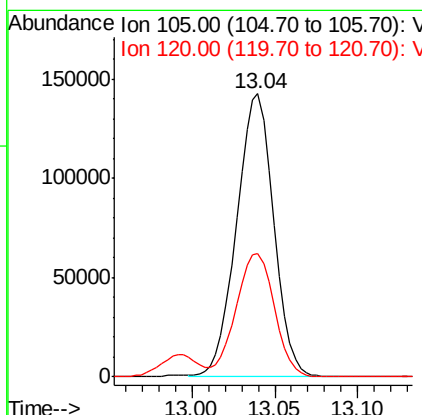
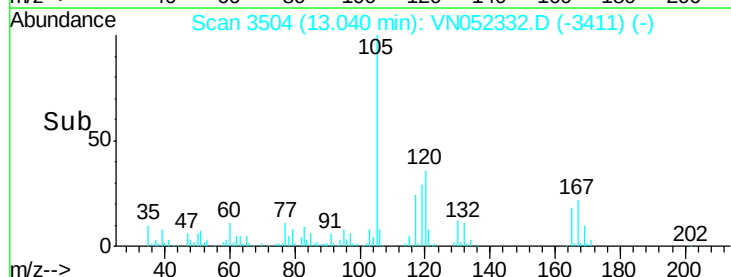
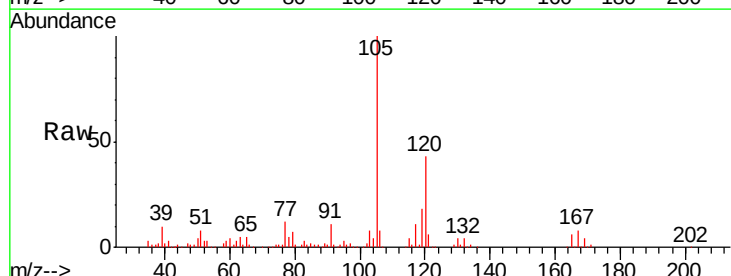
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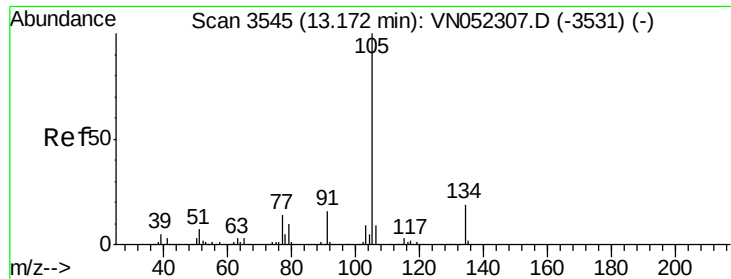
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#84
 1,2,4-Trimethylbenzene
 Concen: 19.55 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.00 min
 Lab File: VN052332.D
 Acq: 15 Nov 2018 10:23

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.4	22.5	67.5





#85

sec-Butylbenzene

Concen: 19.91 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN052332.D

Acq: 15 Nov 2018 10:23

Instrument :

MSVOA_N

ClientSampleId :

VN1115WBS01

Tgt Ion:105 Resp: 270348

Ion Ratio Lower Upper

105 100

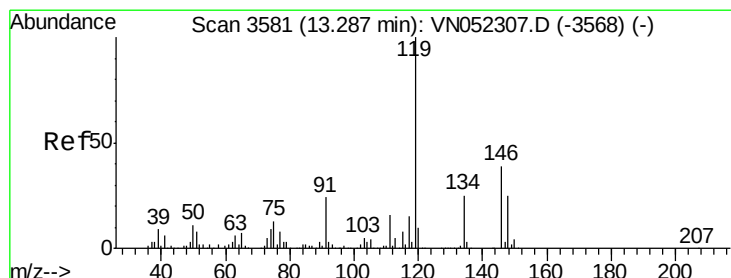
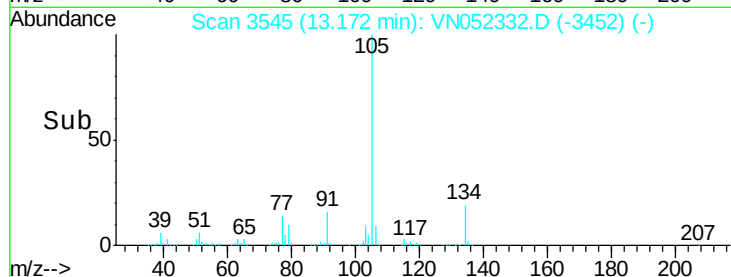
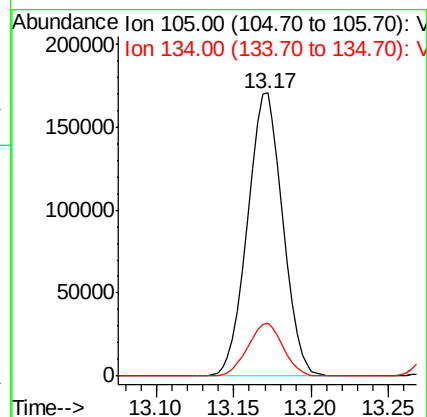
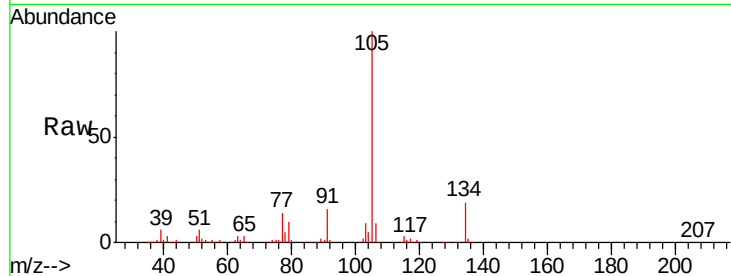
134 18.8 9.5 28.5

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#86

p-Isopropyltoluene

Concen: 19.60 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.00 min

Lab File: VN052332.D

Acq: 15 Nov 2018 10:23

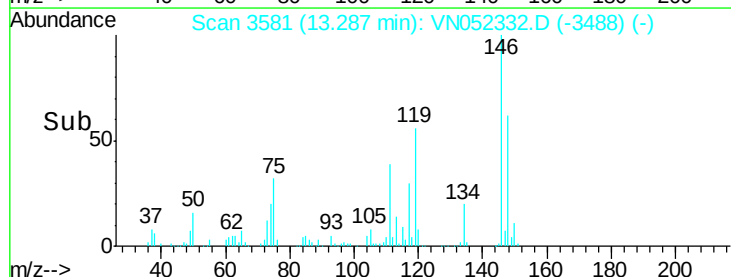
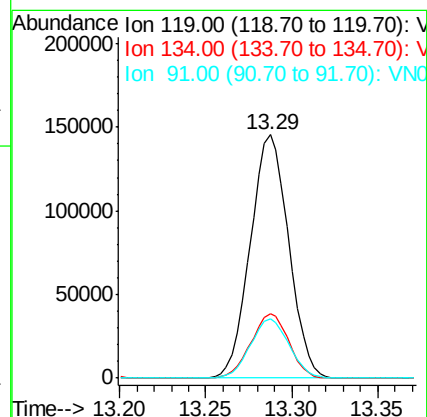
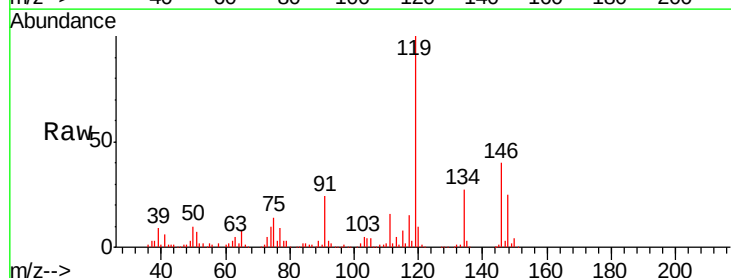
Tgt Ion:119 Resp: 225416

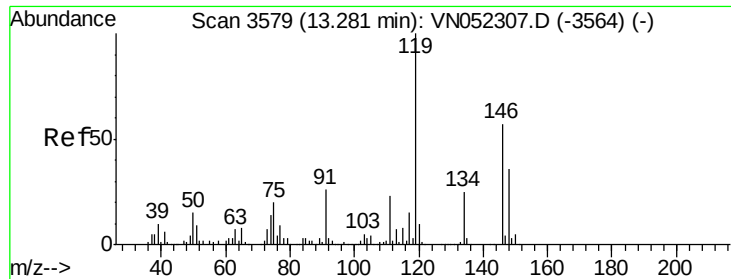
Ion Ratio Lower Upper

119 100

134 26.3 13.0 38.9

91 24.6 12.4 37.0





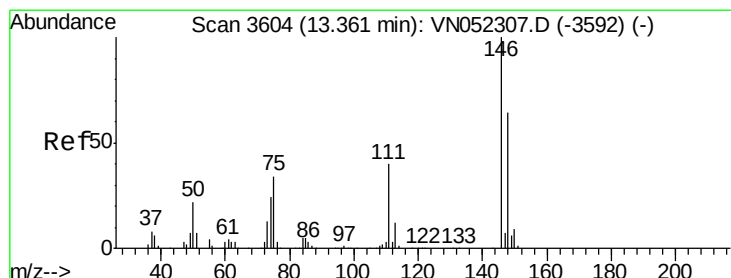
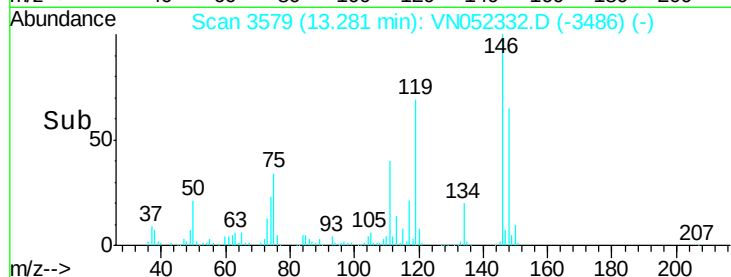
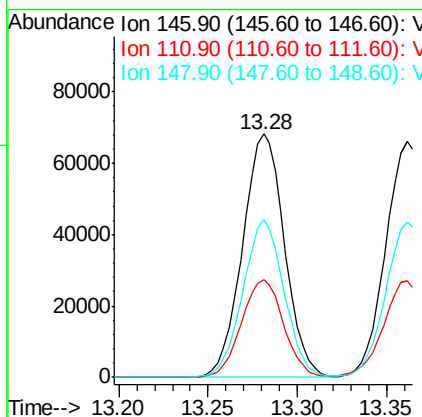
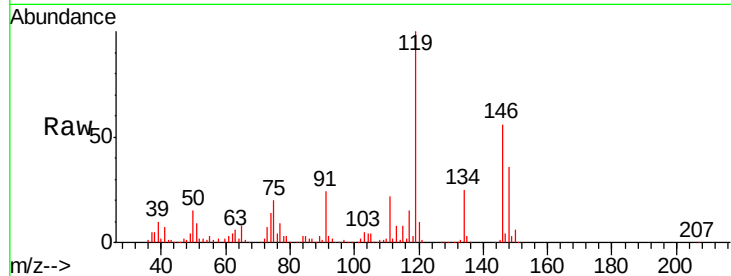
#87
 1,3-Dichlorobenzene
 Concen: 19.02 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. 0.00 min
 Lab File: VN052332.D
 Acq: 15 Nov 2018 10:23

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1115WBS01

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.4	20.3	61.0
148	63.7	31.8	95.4

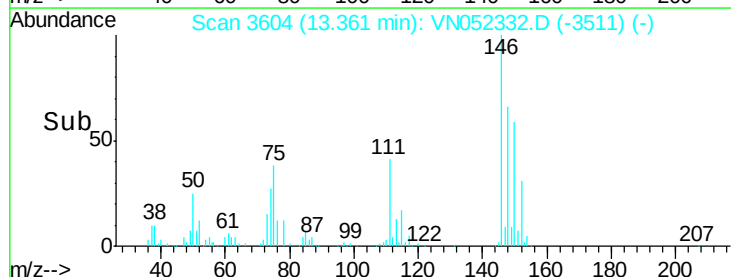
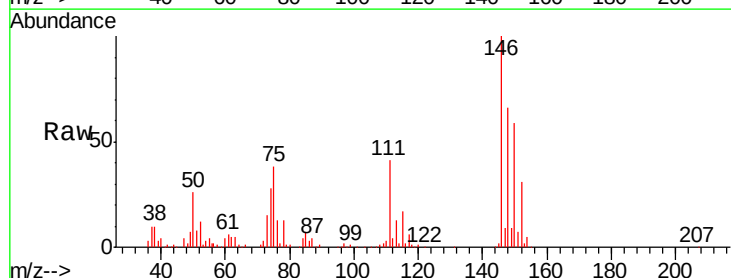
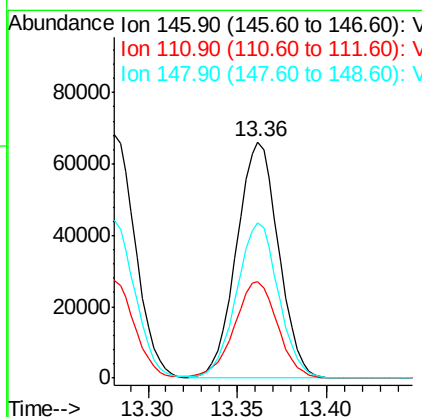
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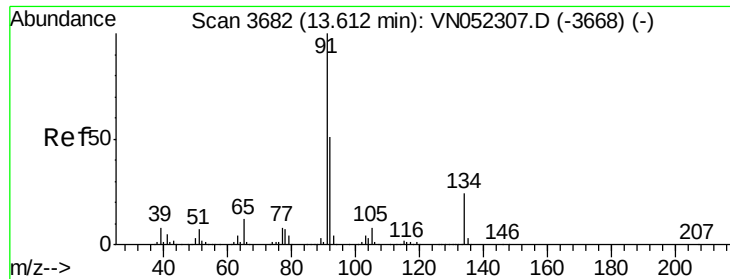
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#88
 1,4-Dichlorobenzene
 Concen: 18.67 ug/l
 RT: 13.36 min Scan# 3604
 Delta R.T. 0.00 min
 Lab File: VN052332.D
 Acq: 15 Nov 2018 10:23

Tgt Ion	Ratio	Lower	Upper
146	100		
111	42.1	20.6	61.8
148	65.8	32.4	97.2





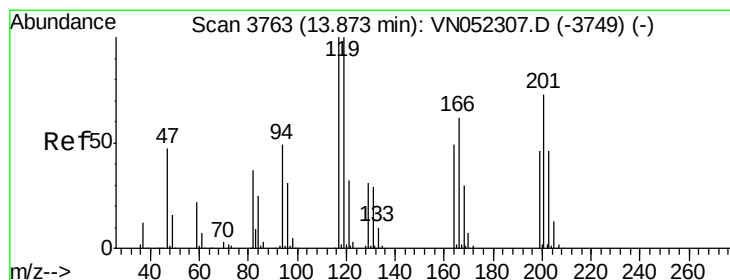
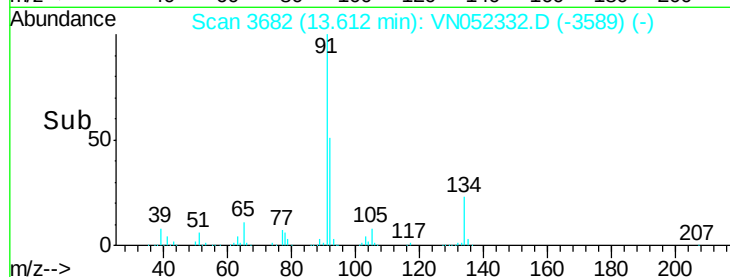
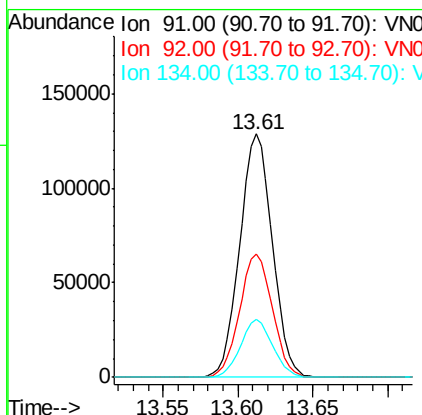
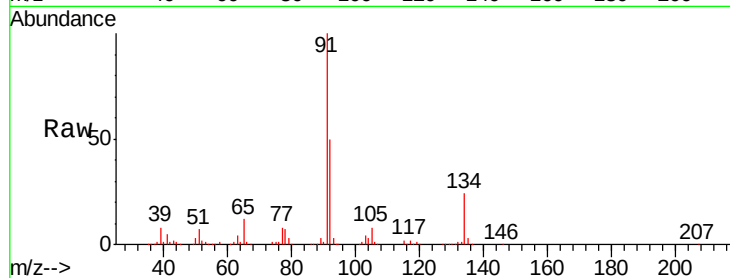
#89
n-Butylbenzene
Concen: 19.77 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. 0.00 min
Lab File: VN052332.D
Acq: 15 Nov 2018 10:23

Instrument :
MSVOA_N
ClientSampleId :
VN1115WBS01

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	195296		
92	50.9	25.4	76.2	
134	23.5	12.2	36.4	

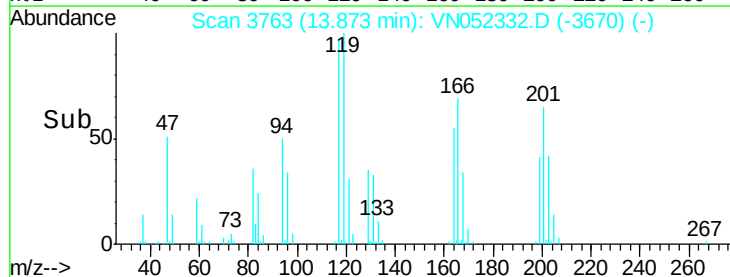
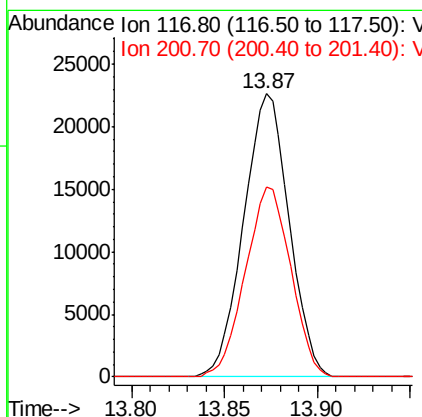
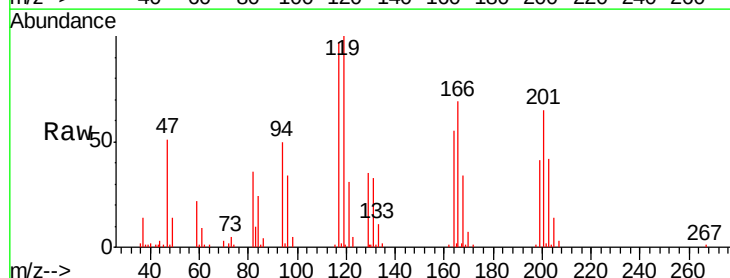
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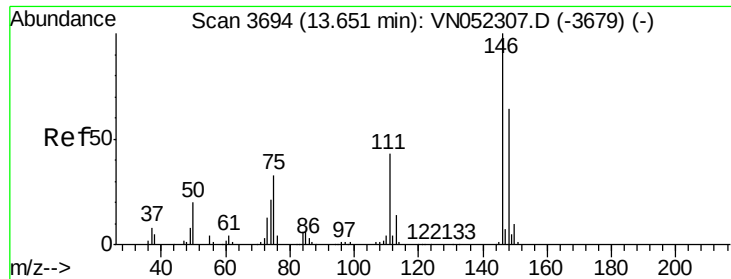
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#90
Hexachloroethane
Concen: 18.87 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. 0.00 min
Lab File: VN052332.D
Acq: 15 Nov 2018 10:23

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	38445		
201	66.9	35.3	105.9	





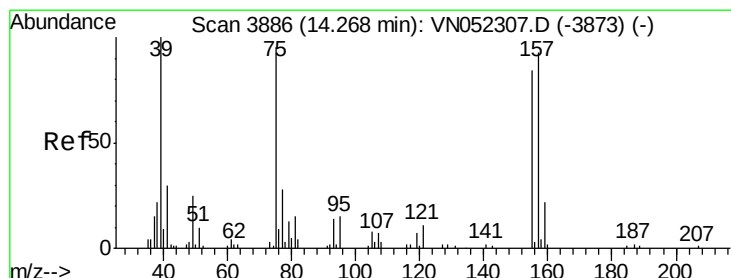
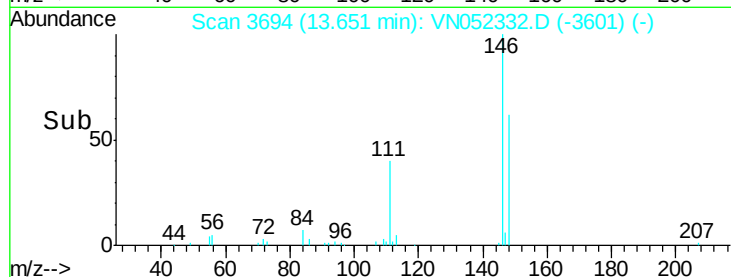
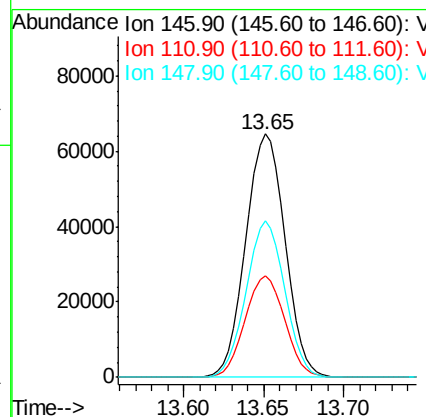
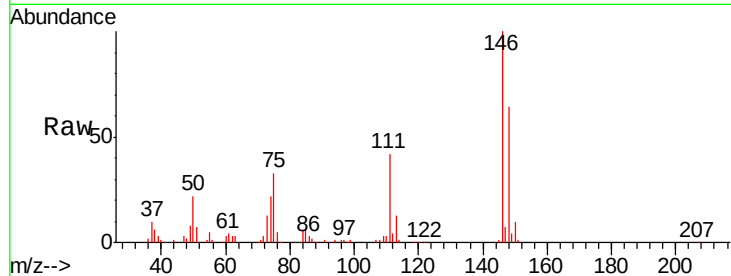
#91
 1,2-Dichlorobenzene
 Concen: 19.08 ug/l
 RT: 13.65 min Scan# 3694
 Delta R.T. 0.00 min
 Lab File: VN052332.D
 Acq: 15 Nov 2018 10:23

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1115WBS01

Tgt Ion	Ratio	Lower	Upper
146	100		
111	42.0	21.3	63.9
148	63.0	31.6	94.8

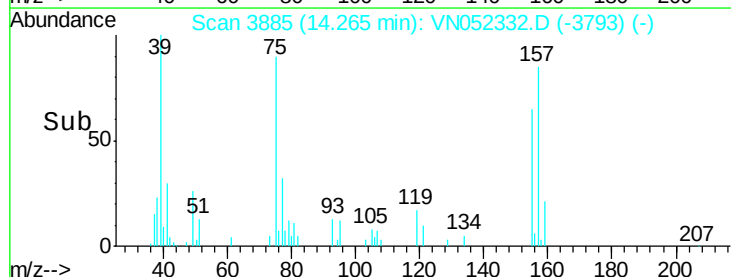
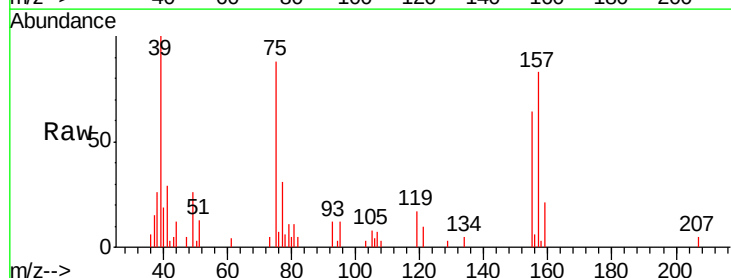
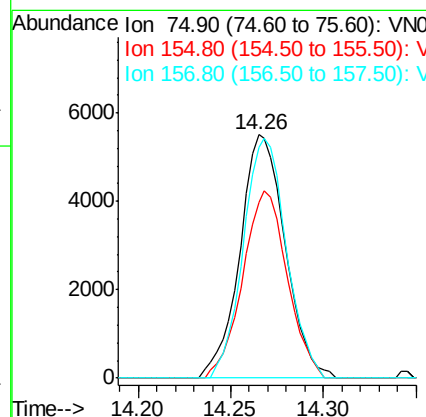
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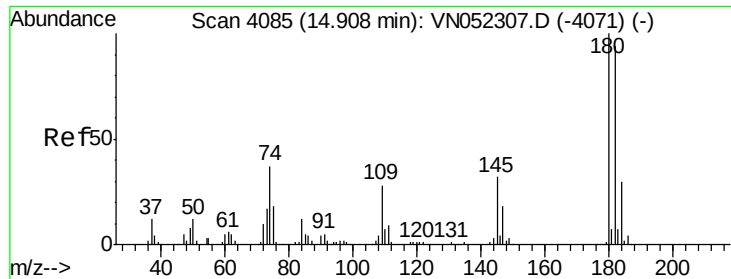
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 11/16/2018 4:06:52 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 18.48 ug/l
 RT: 14.26 min Scan# 3885
 Delta R.T. -0.00 min
 Lab File: VN052332.D
 Acq: 15 Nov 2018 10:23

Tgt Ion	Ratio	Lower	Upper
75	100		
155	75.4	42.4	127.3
157	93.6	49.6	149.0





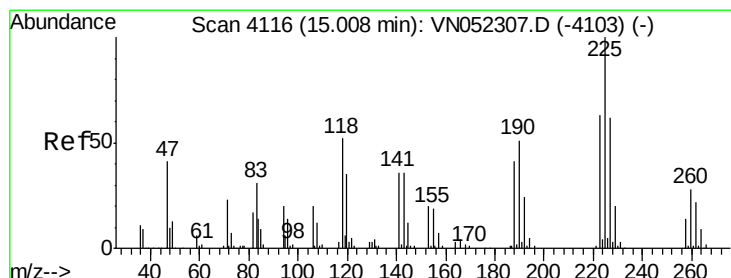
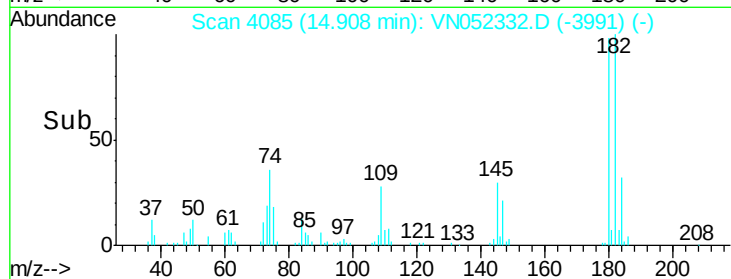
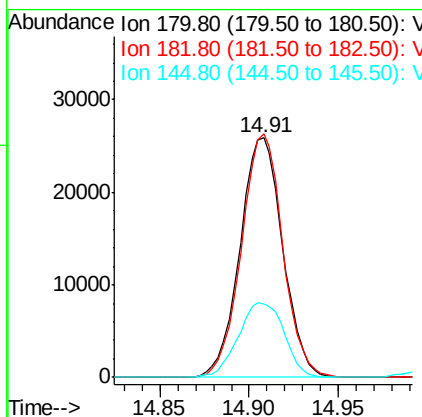
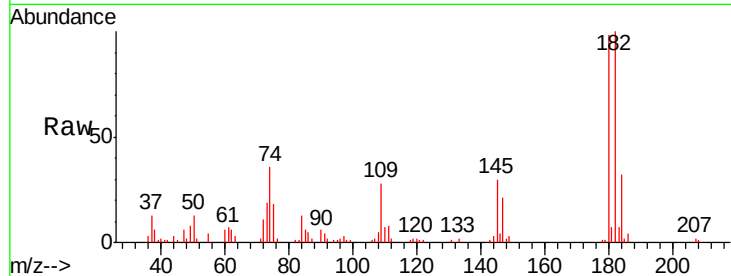
#93
 1,2,4-Trichlorobenzene
 Concen: 17.83 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN052332.D
 Acq: 15 Nov 2018 10:23

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1115WBS01

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	43120		
182	98.2	47.6	142.9	
145	33.5	15.5	46.5	

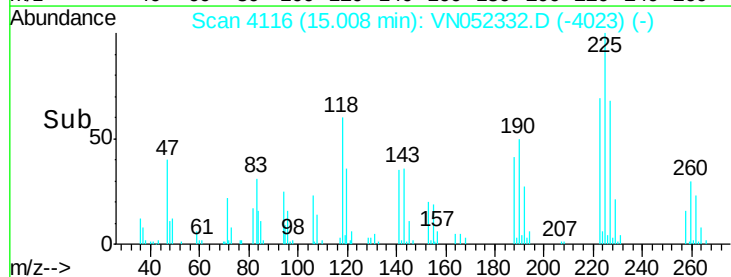
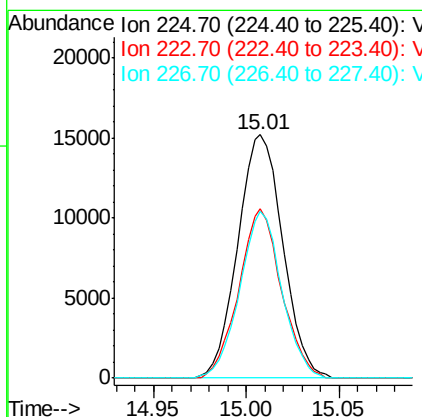
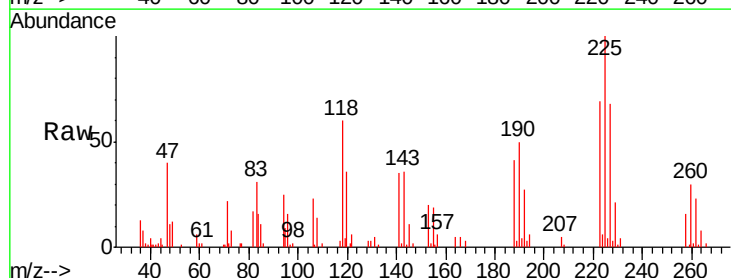
Manual Integrations
 APPROVED

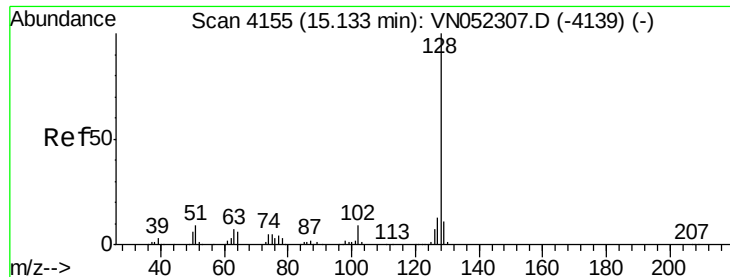
MMDadoda
 11/16/2018 4:06:52 PM



#94
 Hexachlorobutadiene
 Concen: 19.68 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN052332.D
 Acq: 15 Nov 2018 10:23

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	25599		
223	65.8	31.9	95.5	
227	63.7	31.6	95.0	





#95

Naphthalene

Concen: 17.36 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. -0.00 min

Lab File: VN052332.D

Acq: 15 Nov 2018 10:23

Instrument :

MSVOA_N

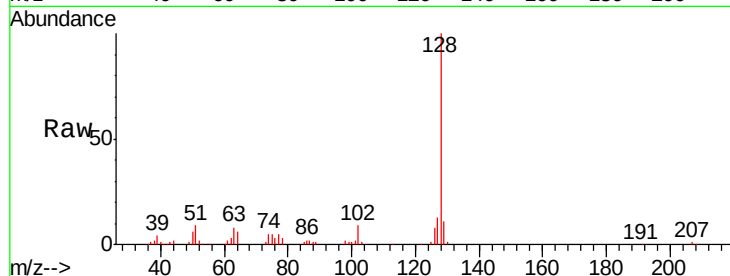
ClientSampleId :

VN1115WBS01

Tgt Ion:	128	Resp:	97294
Ion	Ratio	Lower	Upper
128	100		
127	14.0	10.4	15.6
129	11.2	8.6	13.0

Manual Integrations
APPROVED

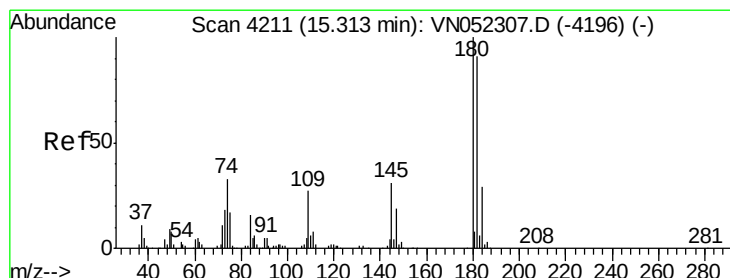
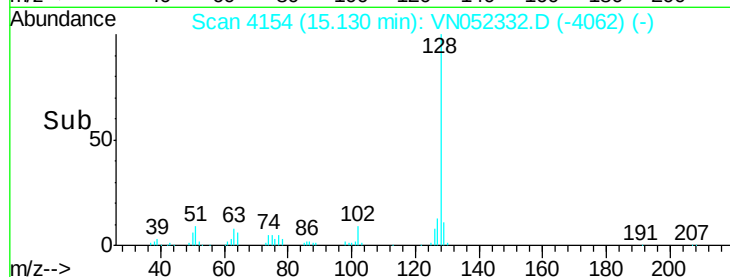
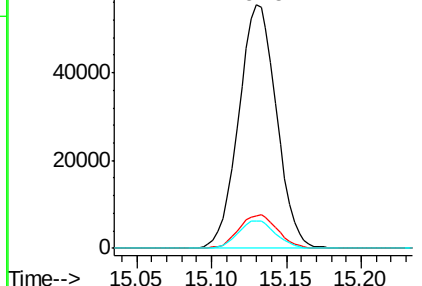
MMDadoda
11/16/2018 4:06:52 PM



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 19.01 ug/l

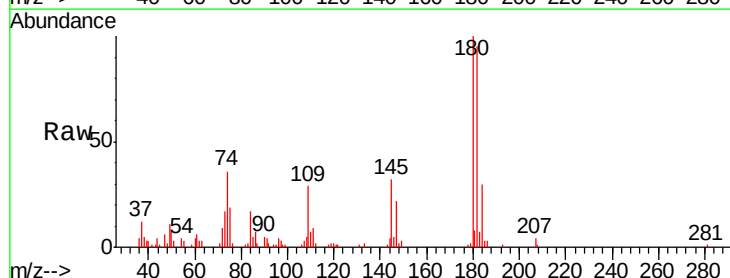
RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN052332.D

Acq: 15 Nov 2018 10:23

Tgt Ion:	180	Resp:	41044
Ion	Ratio	Lower	Upper
180	100		
182	95.0	46.5	139.3
145	31.7	16.4	49.2



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

