

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN110218\
 Data File : VN052117.D
 Acq On : 2 Nov 2018 9:53
 Operator : MD\SY
 Sample : VN1102WBS01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1102WBS01

Manual Integrations
 APPROVED

MMDadoda
 11/5/2018 11:52:40 AM

Quant Time: Nov 02 22:40:30 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N103018W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 31 02:45:22 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	340539	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	588446	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	533132	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	233648	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	230854	42.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	84.48%	
35) Dibromofluoromethane	7.59	113	197017	53.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.04%	
50) Toluene-d8	10.09	98	749582	50.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.90%	
62) 4-Bromofluorobenzene	12.40	95	260273	48.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.38%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	85344	20.618	ug/l	97
3) Chloromethane	2.06	50	94236	18.064	ug/l	97
4) Vinyl Chloride	2.19	62	97720	17.403	ug/l	98
5) Bromomethane	2.57	94	67824	16.102	ug/l	98
6) Chloroethane	2.71	64	61491	16.961	ug/l	93
7) Trichlorofluoromethane	3.02	101	131145	20.452	ug/l	93
8) Diethyl Ether	3.41	74	45786	19.141	ug/l	90
9) 1,1,2-Trichlorotrifluoroet	3.77	101	78098	20.644	ug/l	96
10) Methyl Iodide	3.95	142	94710	19.104	ug/l	99
11) Tert butyl alcohol	4.79	59	22063	80.625	ug/l #	93
12) 1,1-Dichloroethene	3.74	96	68544	19.187	ug/l	87
13) Acrolein	3.61	56	17463	81.384	ug/l	99
14) Allyl chloride	4.33	41	119823	16.760	ug/l	95
15) Acrylonitrile	4.99	53	140985	90.121	ug/l	99
16) Acetone	3.82	43	108207	92.766	ug/l	94
17) Carbon Disulfide	4.06	76	195454	17.363	ug/l	96
18) Methyl Acetate	4.33	43	69520	18.722	ug/l	99
19) Methyl tert-butyl Ether	5.05	73	207268	17.664	ug/l	99
20) Methylene Chloride	4.55	84	82063	18.463	ug/l	95
21) trans-1,2-Dichloroethene	5.05	96	76947	18.890	ug/l	92
22) Diisopropyl ether	5.96	45	260640	16.866	ug/l	98
23) Vinyl Acetate	5.90	43	944380	88.202	ug/l	100
24) 1,1-Dichloroethane	5.85	63	149909	17.349	ug/l	97
25) 2-Butanone	6.84	43	170448	93.165	ug/l	99
26) 2,2-Dichloropropane	6.83	77	119658	17.436	ug/l	96
27) cis-1,2-Dichloroethene	6.83	96	89523	18.402	ug/l	95
28) Bromochloromethane	7.20	49	70846	16.544	ug/l	88
29) Tetrahydrofuran	7.22	42	113254	92.917	ug/l	98
30) Chloroform	7.37	83	156537	18.149	ug/l	95
31) Cyclohexane	7.66	56	143833	15.949	ug/l	91
32) 1,1,1-Trichloroethane	7.57	97	132240	19.064	ug/l	96
36) 1,1-Dichloropropene	7.79	75	114046	19.060	ug/l	96
37) Ethyl Acetate	6.93	43	76385	19.073	ug/l	98
38) Carbon Tetrachloride	7.78	117	110694	21.456	ug/l	99

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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	140278	19.756	ug/l	98
40) Benzene	8.04	78	348712	20.149	ug/l	95
41) Methacrylonitrile	7.18	41	44096	21.419	ug/l	94
42) 1,2-Dichloroethane	8.13	62	112413	17.601	ug/l	96
43) Isopropyl Acetate	8.17	43	139707	19.613	ug/l	98
44) Trichloroethene	8.84	130	81906	21.162	ug/l	97
45) 1,2-Dichloropropane	9.12	63	90127	18.281	ug/l	98
46) Dibromomethane	9.21	93	55365	20.093	ug/l	92
47) Bromodichloromethane	9.40	83	114787	19.974	ug/l	98
48) Methyl methacrylate	9.20	41	69831	19.336	ug/l	99
49) 1,4-Dioxane	9.20	88	10555	364.887	ug/l	91
51) 4-Methyl-2-Pentanone	9.99	43	388567	100.364	ug/l	99
52) Toluene	10.16	92	211653	20.259	ug/l	96
53) t-1,3-Dichloropropene	10.38	75	114275	18.809	ug/l	96
54) cis-1,3-Dichloropropene	9.84	75	129300	19.163	ug/l	97
55) 1,1,2-Trichloroethane	10.56	97	75914	20.402	ug/l	97
56) Ethyl methacrylate	10.43	69	97231	18.267	ug/l	98
57) 1,3-Dichloropropane	10.71	76	133202	19.455	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.70	63	275785	97.409	ug/l	95
59) 2-Hexanone	10.75	43	265137	96.100	ug/l	98
60) Dibromochloromethane	10.90	129	79683	21.752	ug/l	100
61) 1,2-Dibromoethane	11.01	107	76428	20.661	ug/l	97
64) Tetrachloroethene	10.63	164	70252	21.751	ug/l	98
65) Chlorobenzene	11.43	112	230275	20.507	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	77709	22.040	ug/l	96
67) Ethyl Benzene	11.51	91	404536	20.202	ug/l	97
68) m/p-Xylenes	11.62	106	312008	43.531	ug/l	94
69) o-Xylene	11.95	106	148259	20.904	ug/l	97
70) Styrene	11.96	104	243167	21.190	ug/l	96
71) Bromoform	12.13	173	43036	20.344	ug/l #	98
73) Isopropylbenzene	12.25	105	393465	19.693	ug/l	99
74) N-amyl acetate	12.07	43	119614	17.154	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.50	83	97556	20.362	ug/l	97
76) 1,2,3-Trichloropropane	12.55	75	76473m	17.880	ug/l	
77) Bromobenzene	12.53	156	89378	21.380	ug/l	84
78) n-propylbenzene	12.59	91	470121	19.418	ug/l	98
79) 2-Chlorotoluene	12.67	91	265535	18.814	ug/l	94
80) 1,3,5-Trimethylbenzene	12.73	105	324396	19.952	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.30	75	23566	18.288	ug/l	98
82) 4-Chlorotoluene	12.77	91	278080	19.322	ug/l	96
83) tert-Butylbenzene	12.99	119	280626	20.546	ug/l	95
84) 1,2,4-Trimethylbenzene	13.04	105	324125	20.028	ug/l	98
85) sec-Butylbenzene	13.17	105	387062	19.838	ug/l	97
86) p-Isopropyltoluene	13.29	119	327769	20.627	ug/l	98
87) 1,3-Dichlorobenzene	13.28	146	161492	21.182	ug/l	95
88) 1,4-Dichlorobenzene	13.36	146	157432	20.603	ug/l	99
89) n-Butylbenzene	13.62	91	286299	18.893	ug/l	99
90) Hexachloroethane	13.88	117	52716	19.359	ug/l	95
91) 1,2-Dichlorobenzene	13.65	146	152291	21.246	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.27	75	12470	18.644	ug/l	87

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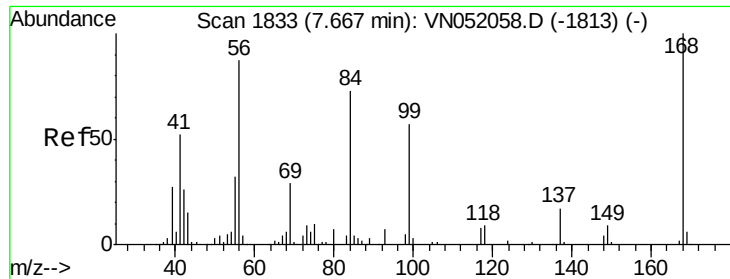
Manual Integrations
APPROVED

MMDadoda
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	59700	22.367	ug/l	98
94) Hexachlorobutadiene	15.01	225	33464	22.401	ug/l	99
95) Naphthalene	15.13	128	144324	21.558	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	53691	23.311	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN052117.D

Acq: 2 Nov 2018 9:53

Instrument :

MSVOA_N

ClientSampleId :

VN1102WBS01

Tot Ion:168 Resp: 340539

Ion Ratio Lower Upper

168 100

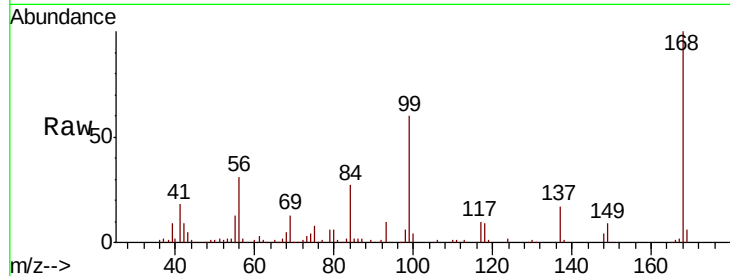
99 60.0 56.6 85.0

Manual Integrations

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11/5/2018 11:52:40 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

150000

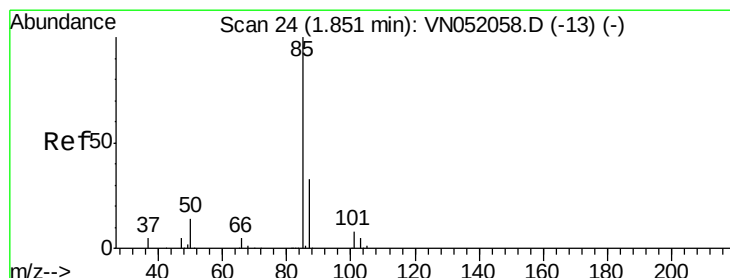
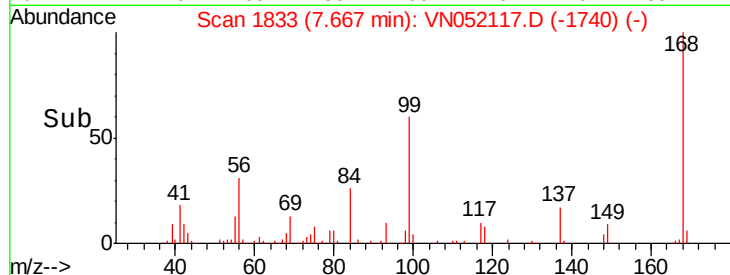
100000

50000

0

7.60 7.67 7.70 7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 20.618 ug/l

RT: 1.85 min Scan# 25

Delta R.T. 0.00 min

Lab File: VN052117.D

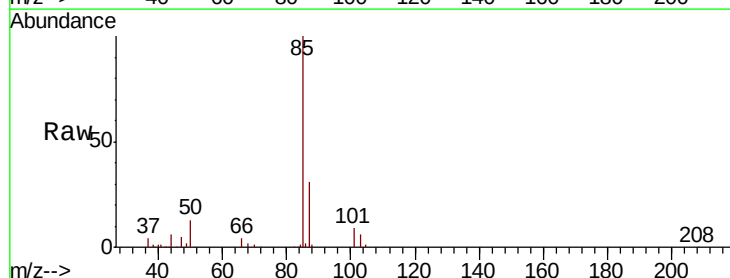
Acq: 2 Nov 2018 9:53

Tgt Ion: 85 Resp: 85344

Ion Ratio Lower Upper

85 100

87 30.7 16.3 48.8



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

60000

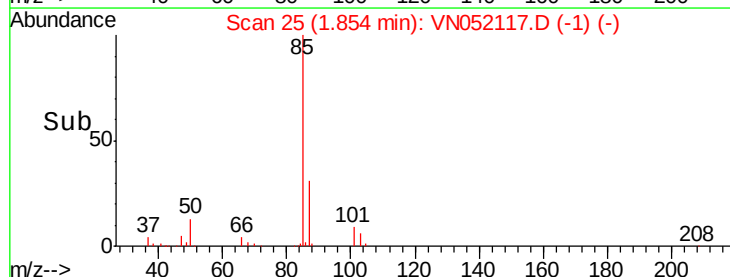
40000

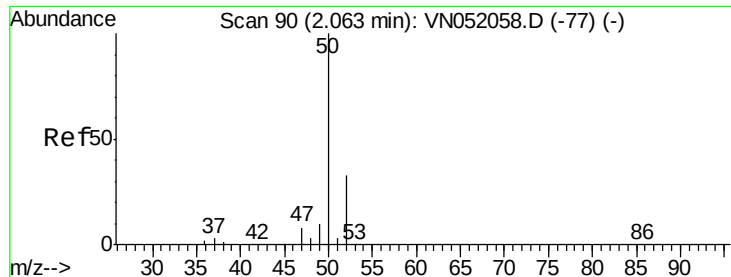
20000

0

1.80 1.85 1.90 1.95

Time-->





#3

Chloromethane

Concen: 18.064 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN052117.D

Acq: 2 Nov 2018 9:53

Instrument :

MSVOA_N

ClientSampleId :

VN1102WBS01

Tot Ion: 50 Resp: 94236

Ion Ratio Lower Upper

50 100

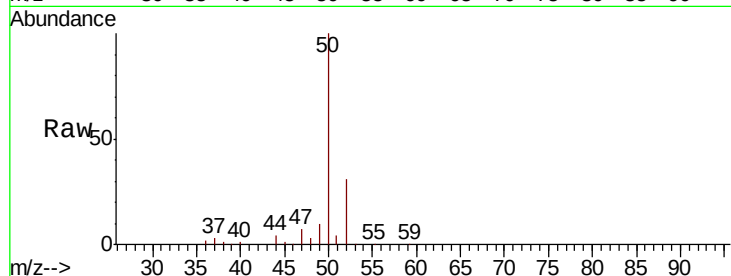
52 31.5 26.6 39.8

Manual Integrations

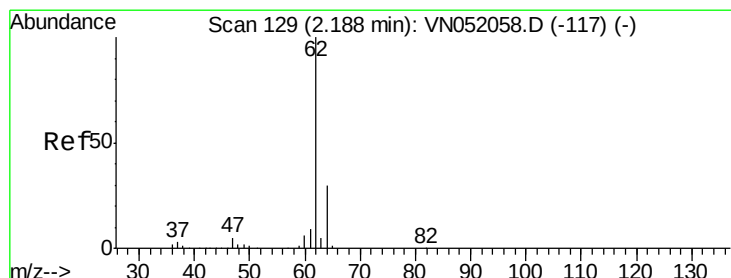
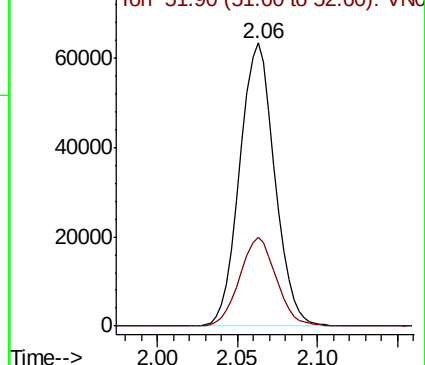
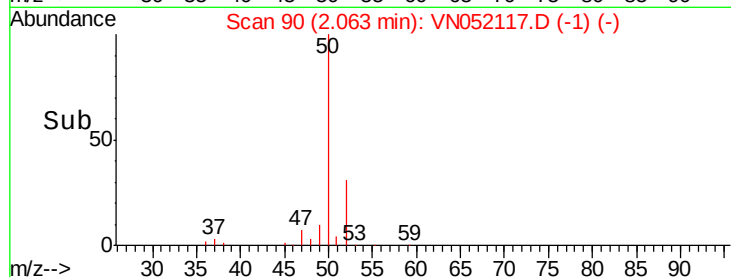
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11/5/2018 11:52:40 AM



Abundance Ion 49.90 (49.60 to 50.60): VN052117.D (-1) (-)



#4

Vinyl Chloride

Concen: 17.403 ug/l

RT: 2.19 min Scan# 129

Delta R.T. -0.00 min

Lab File: VN052117.D

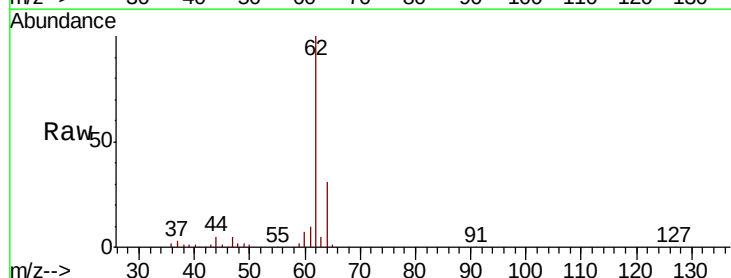
Acq: 2 Nov 2018 9:53

Tgt Ion: 62 Resp: 97720

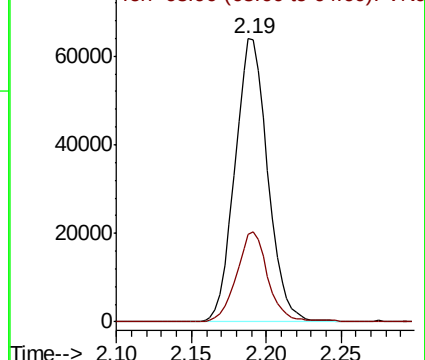
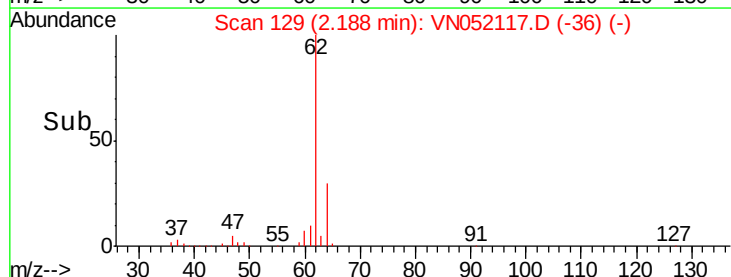
Ion Ratio Lower Upper

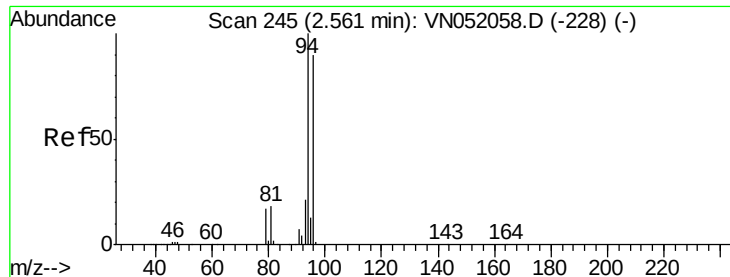
62 100

64 30.7 23.7 35.5



Abundance Ion 61.90 (61.60 to 62.60): VN052117.D (-36) (-)





#5

Bromomethane

Concen: 16.102 ug/l

RT: 2.57 min Scan# 249

Delta R.T. 0.01 min

Lab File: VN052117.D

Acq: 2 Nov 2018 9:53

Instrument :

MSVOA_N

ClientSampleId :

VN1102WBS01

Tot Ion: 94 Resp: 67824

Ion Ratio Lower Upper

94 100

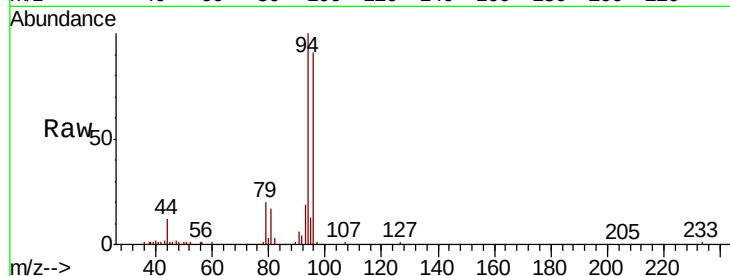
96 91.5 71.8 107.6

Manual Integrations

APPROVED

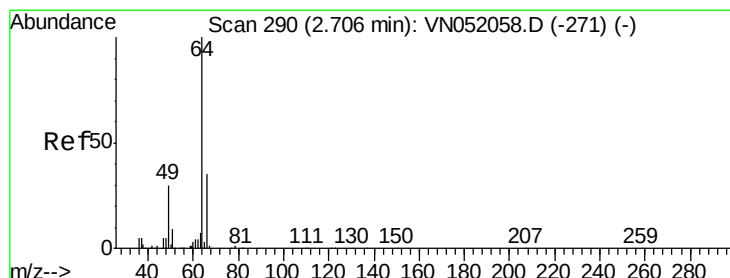
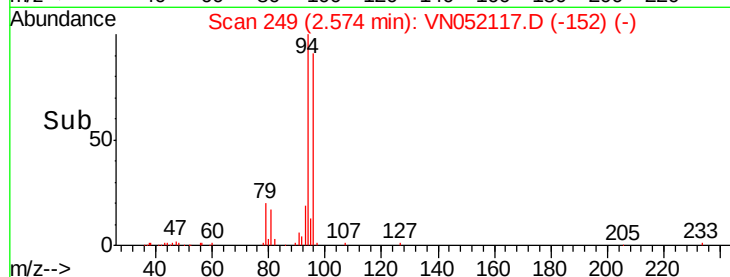
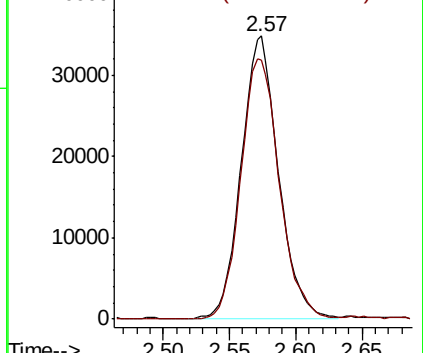
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11/5/2018 11:52:40 AM



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 16.961 ug/l

RT: 2.71 min Scan# 291

Delta R.T. 0.00 min

Lab File: VN052117.D

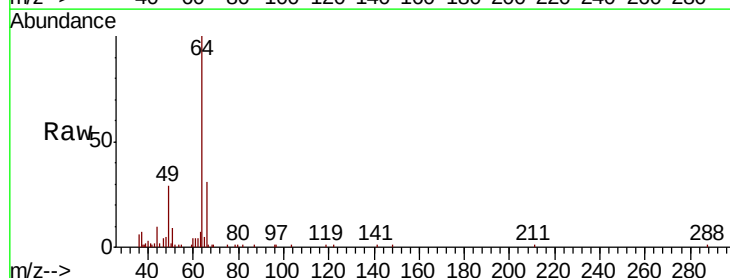
Acq: 2 Nov 2018 9:53

Tgt Ion: 64 Resp: 61491

Ion Ratio Lower Upper

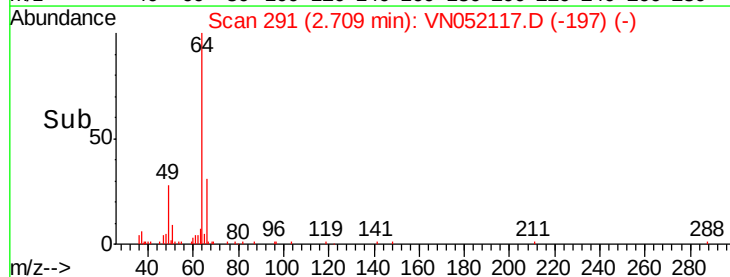
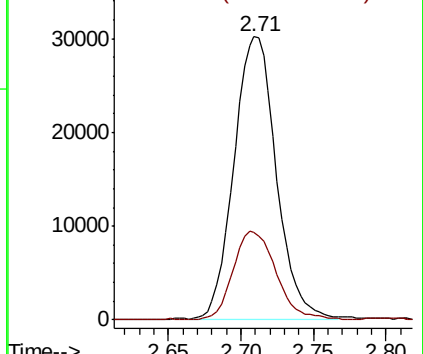
64 100

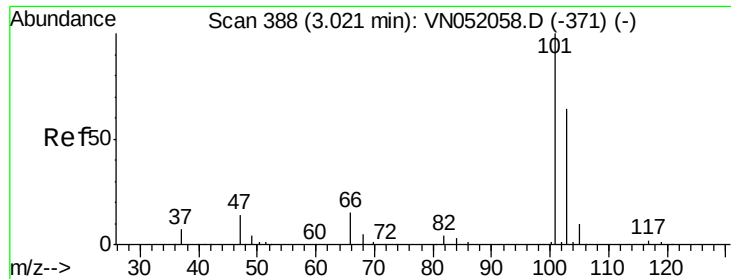
66 30.7 27.9 41.9



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#7

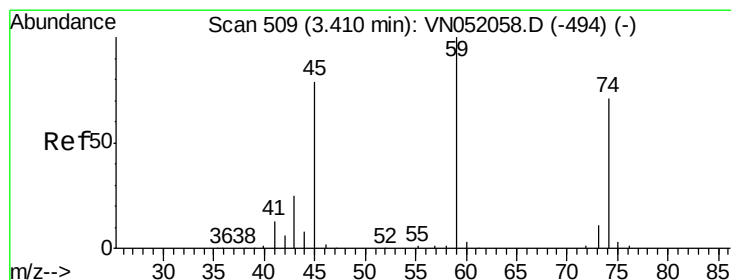
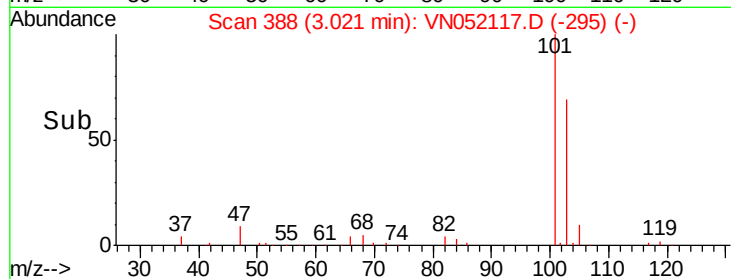
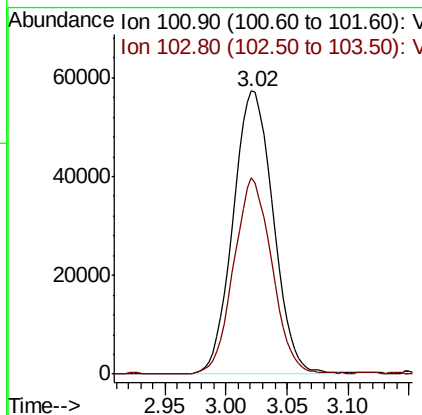
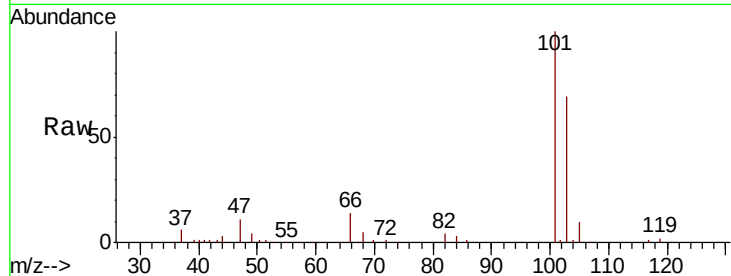
Trichlorofluoromethane
 Concen: 20.452 ug/l
 RT: 3.02 min Scan# 388
 Delta R.T. -0.00 min
 Lab File: VN052117.D
 Acq: 2 Nov 2018 9:53

Instrument :
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 VN1102WBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
101	100		131145		
103	69.3	51.0	76.4		

Manual Integrations
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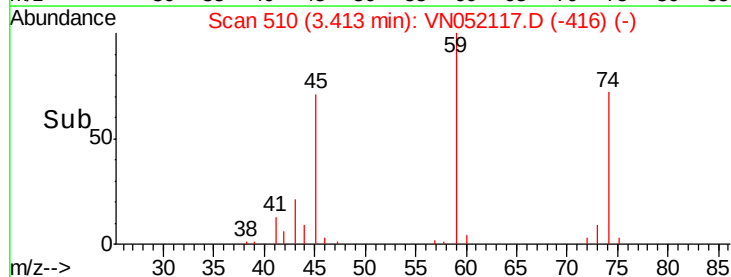
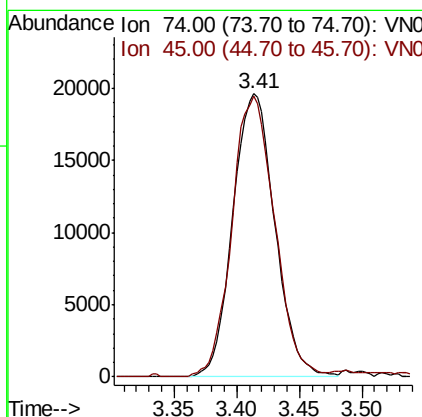
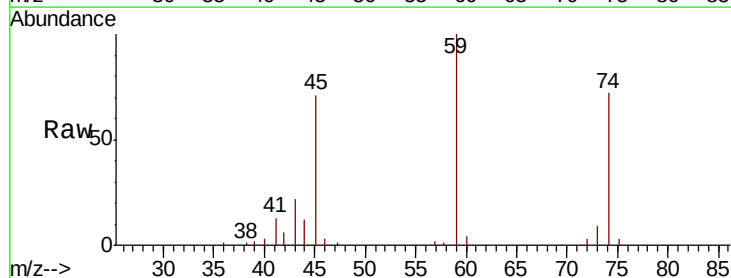
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 11/5/2018 11:52:40 AM

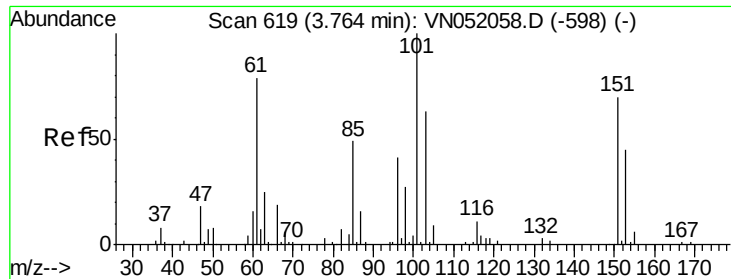


#8

Diethyl Ether
 Concen: 19.141 ug/l
 RT: 3.41 min Scan# 510
 Delta R.T. 0.00 min
 Lab File: VN052117.D
 Acq: 2 Nov 2018 9:53

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
74	100		45786		
45	100.5	55.6	166.8		





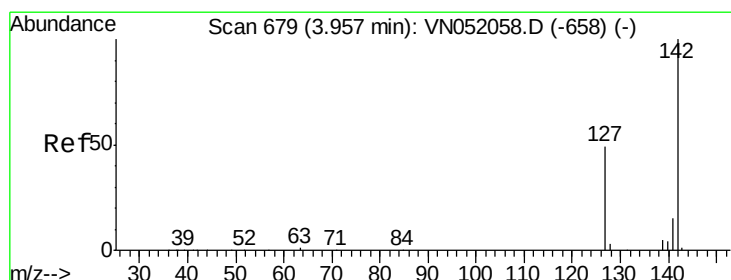
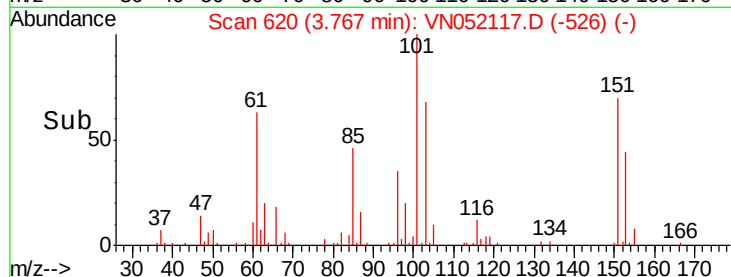
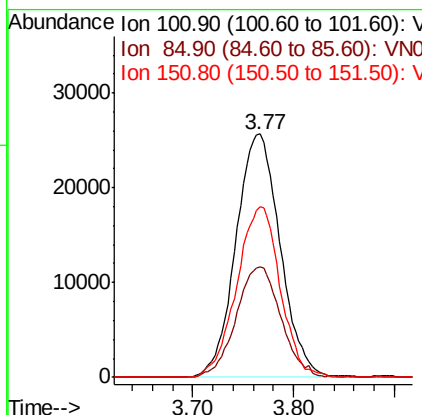
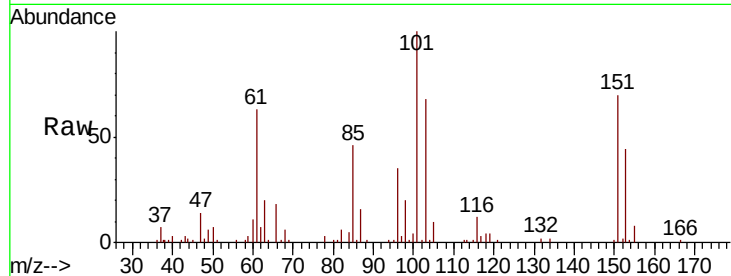
#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.644 ug/l
RT: 3.77 min Scan# 620
Delta R.T. 0.00 min
Lab File: VN052117.D
Acq: 2 Nov 2018 9:53

Instrument :
MSVOA_N
ClientSampleId :
VN1102WBS01

Tot Ion	Ratio	Lower	Upper
101	100		
85	45.9	38.6	58.0
151	68.8	52.6	78.8

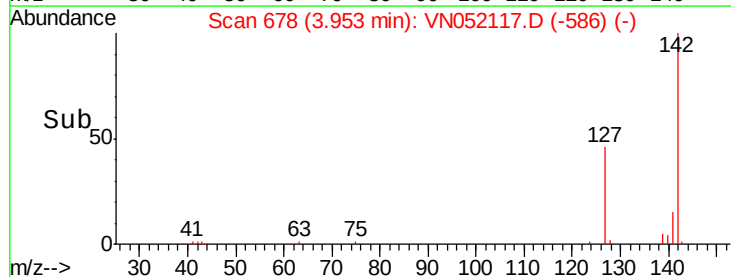
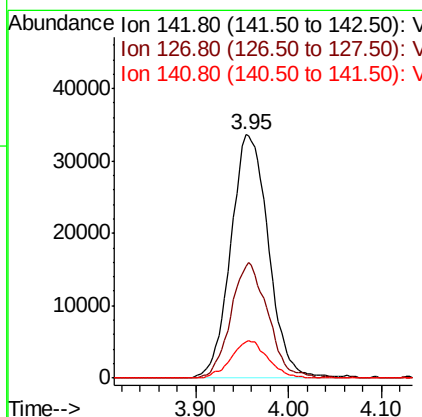
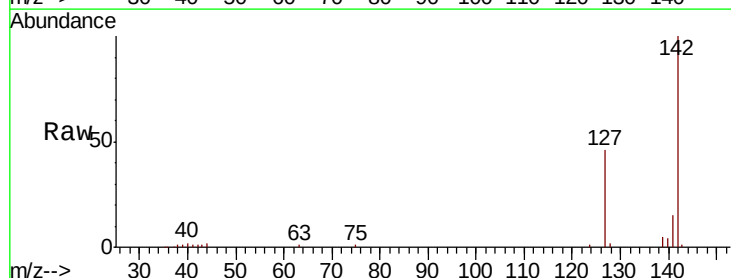
Manual Integrations
APPROVED

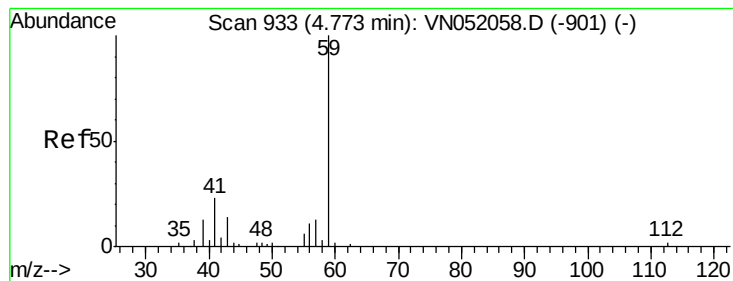
MMDadoda
11/5/2018 11:52:40 AM



#10
Methyl Iodide
Concen: 19.104 ug/l
RT: 3.95 min Scan# 678
Delta R.T. -0.00 min
Lab File: VN052117.D
Acq: 2 Nov 2018 9:53

Tgt Ion	Ratio	Lower	Upper
142	100		
127	46.4	37.3	55.9
141	15.0	11.4	17.2





#11

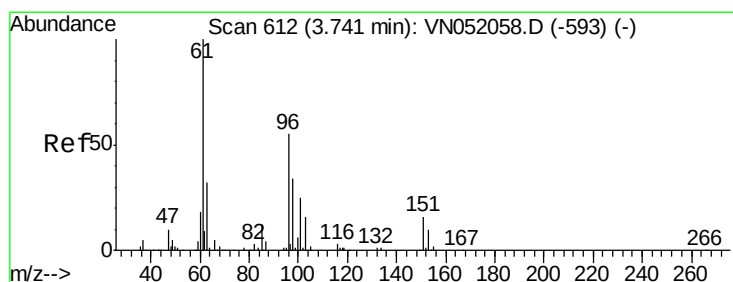
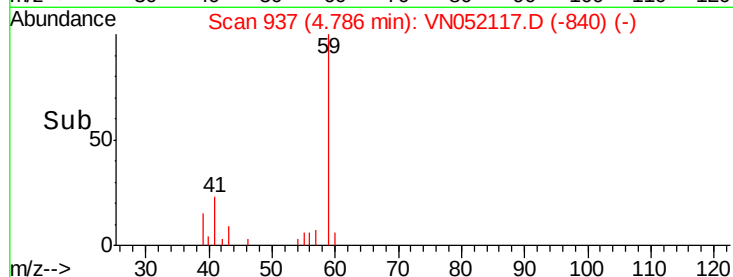
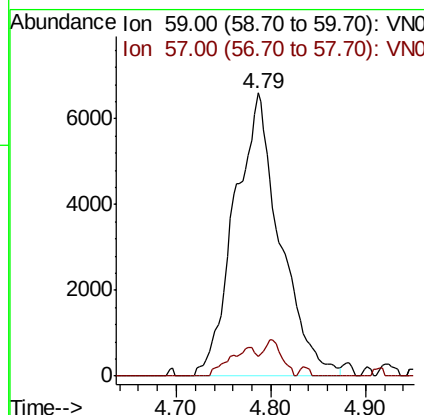
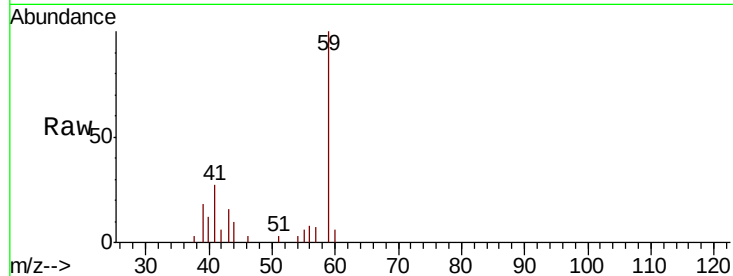
Tert butyl alcohol
 Concen: 80.625 ug/l
 RT: 4.79 min Scan# 937
 Delta R.T. 0.01 min
 Lab File: VN052117.D
 Acq: 2 Nov 2018 9:53

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1102WBS01

Tot Ion	59	57	Ratio	100	6.1	Resp:	22063	Lower	7.0	Upper	10.6#
59	100										
57		6.1									

Manual Integrations
 APPROVED

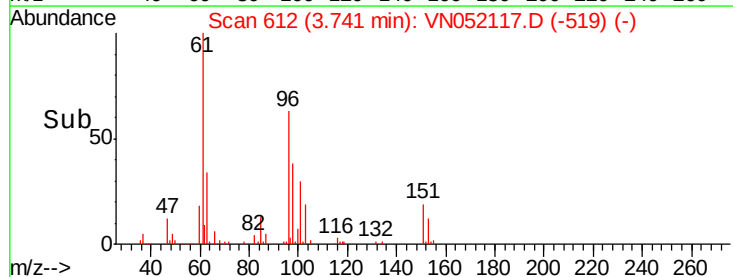
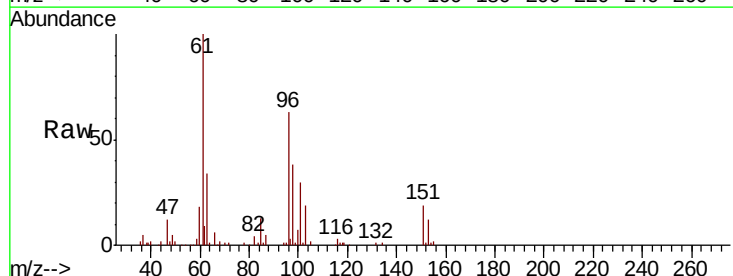
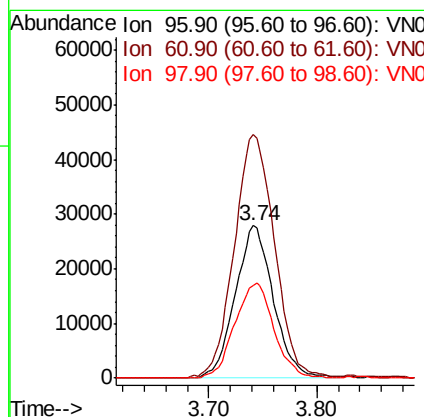
MMDadoda
 11/5/2018 11:52:40 AM

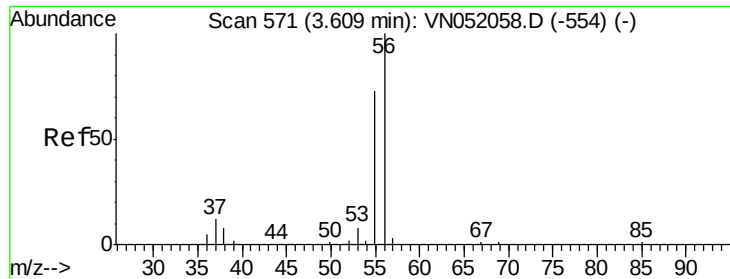


#12

1,1-Dichloroethene
 Concen: 19.187 ug/l
 RT: 3.74 min Scan# 612
 Delta R.T. -0.00 min
 Lab File: VN052117.D
 Acq: 2 Nov 2018 9:53

Tgt Ion	96	61	98	Ratio	100	158.8	60.9	Resp:	68544	Lower	145.7	Upper	218.5	74.8
96	100													
61		158.8												
98		60.9												





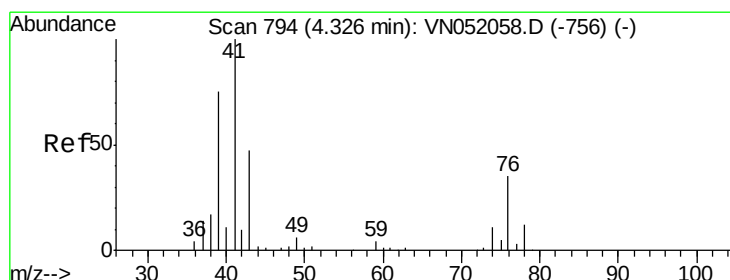
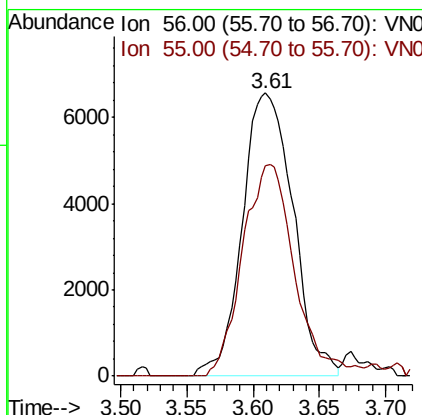
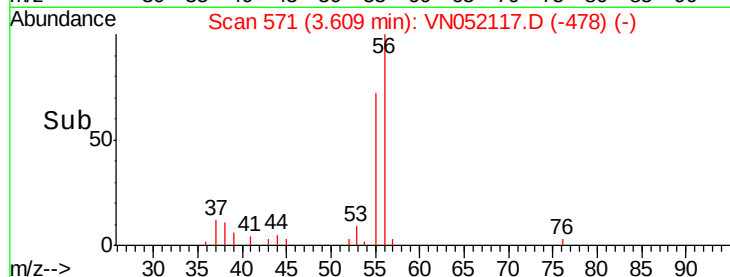
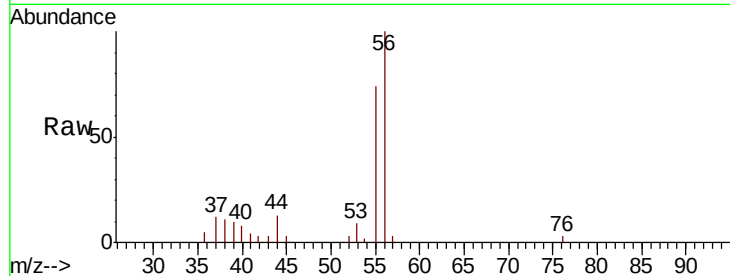
#13
Acrolein
Concen: 81.384 ug/l
RT: 3.61 min Scan# 571
Delta R.T. 0.00 min
Lab File: VN052117.D
Acq: 2 Nov 2018 9:53

Instrument :
MSVOA_N
ClientSampled :
VN1102WBS01

Tot Ion	56	55	Ratio	100	75.9	Resp	17463	Lower	59.9	Upper	89.9
Ion	56	55	Ratio	100	75.9	Resp	17463	Lower	59.9	Upper	89.9

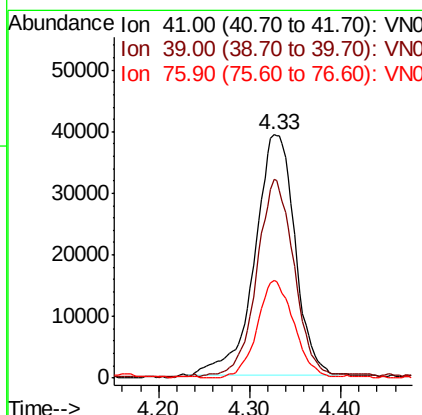
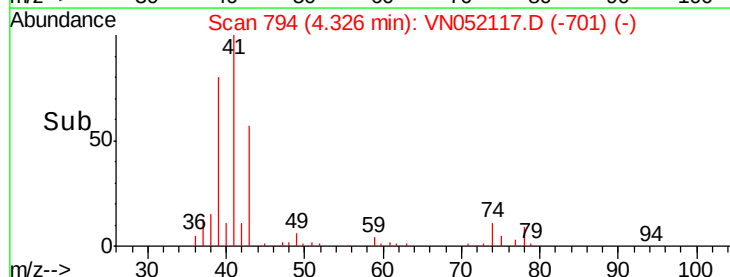
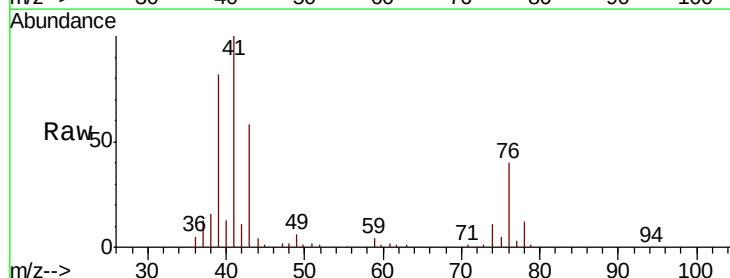
Manual Integrations
APPROVED

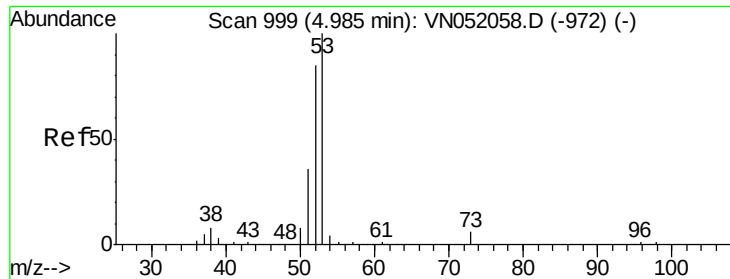
MMDadoda
11/5/2018 11:52:40 AM



#14
Allyl chloride
Concen: 16.760 ug/l
RT: 4.33 min Scan# 794
Delta R.T. -0.00 min
Lab File: VN052117.D
Acq: 2 Nov 2018 9:53

Tgt Ion	41	39	76	Ratio	100	75.4	37.3	Resp	119823	Lower	58.1	Upper	87.1	39.0
Ion	41	39	76	Ratio	100	75.4	37.3	Resp	119823	Lower	58.1	Upper	87.1	39.0





#15

Acrylonitrile

Concen: 90.121 ug/l

RT: 4.99 min Scan# 1000

Delta R.T. 0.00 min

Lab File: VN052117.D

Acq: 2 Nov 2018 9:53

Instrument :

MSVOA_N

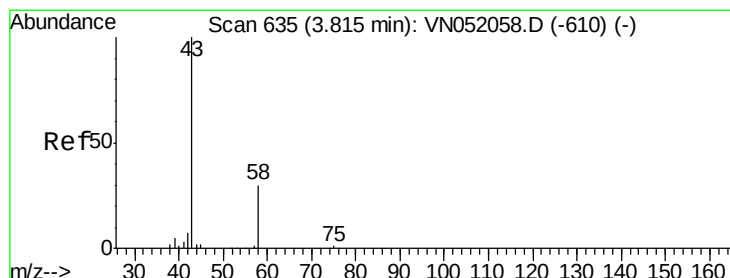
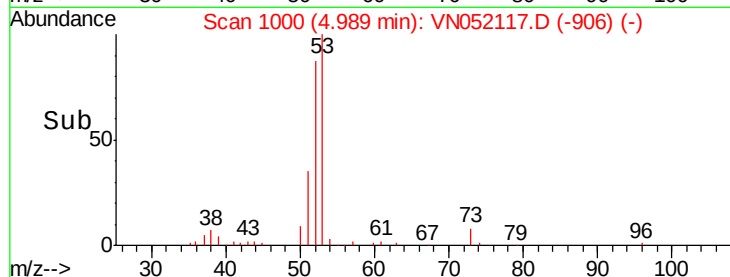
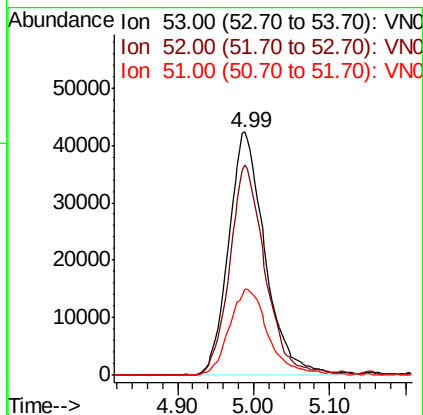
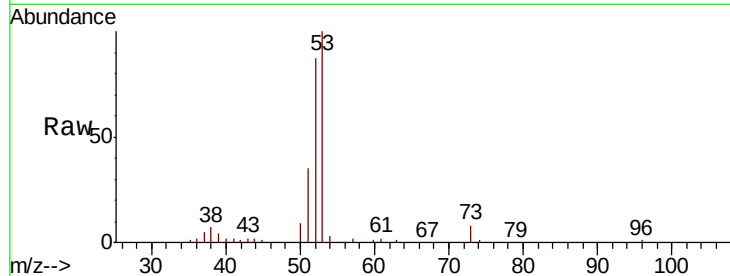
ClientSampleId :

VN1102WBS01

Tot Ion:	53	Resp:	140985
Ion	Ratio	Lower	Upper
53	100		
52	83.3	66.6	100.0
51	37.7	29.0	43.6

Manual Integrations
APPROVED

MMDadoda
11/5/2018 11:52:40 AM



#16

Acetone

Concen: 92.766 ug/l

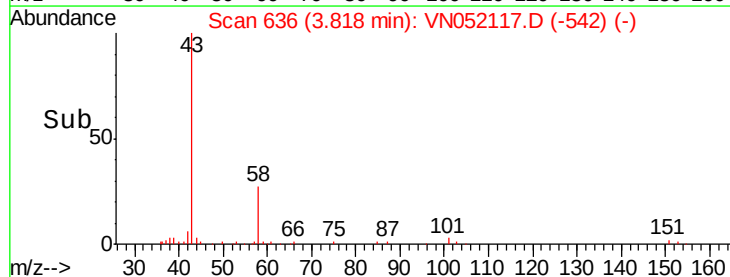
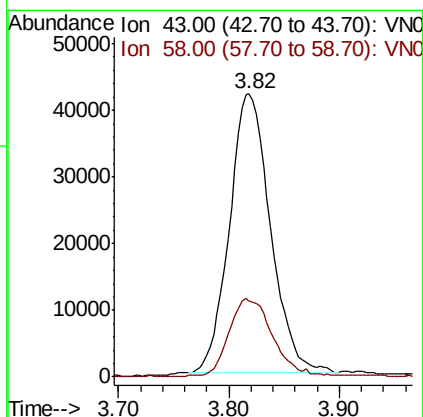
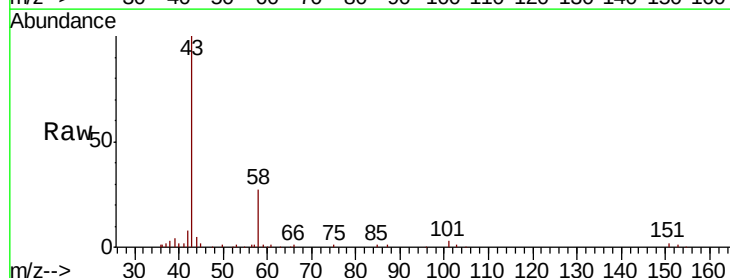
RT: 3.82 min Scan# 636

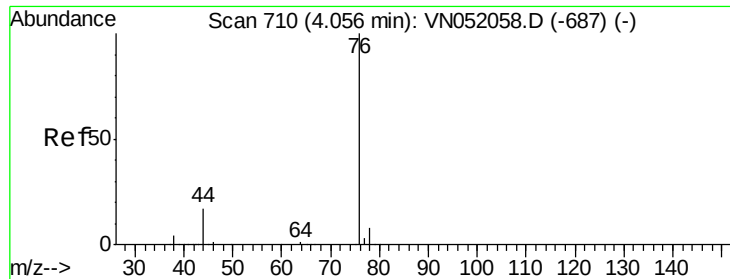
Delta R.T. 0.00 min

Lab File: VN052117.D

Acq: 2 Nov 2018 9:53

Tgt Ion:	43	Resp:	108207
Ion	Ratio	Lower	Upper
43	100		
58	26.8	24.2	36.2





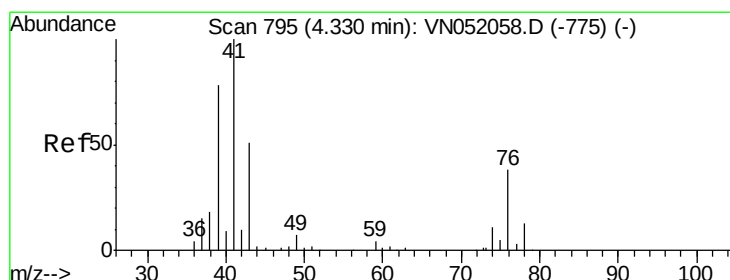
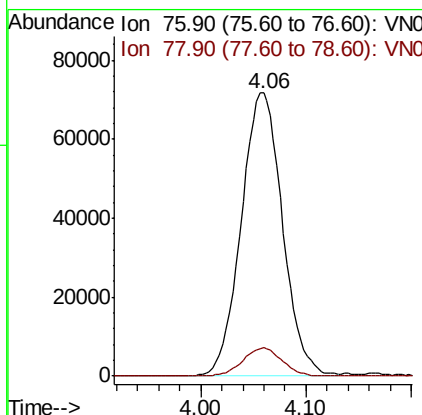
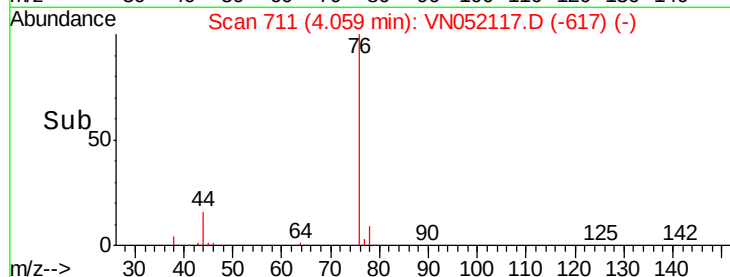
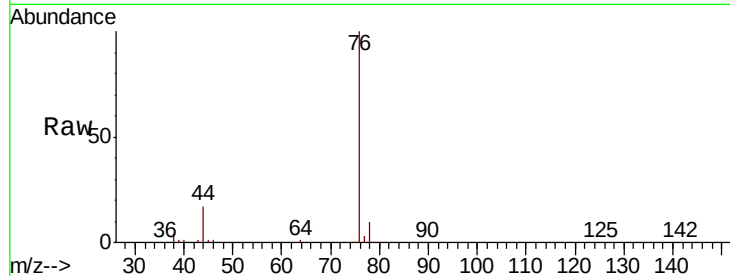
#17
Carbon Disulfide
Concen: 17.363 ug/l
RT: 4.06 min Scan# 711
Delta R.T. 0.00 min
Lab File: VN052117.D
Acq: 2 Nov 2018 9:53

Instrument :
MSVOA_N
ClientSampleId :
VN1102WBS01

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.9	6.8	10.2

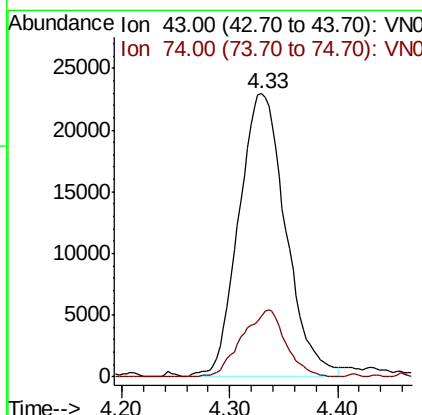
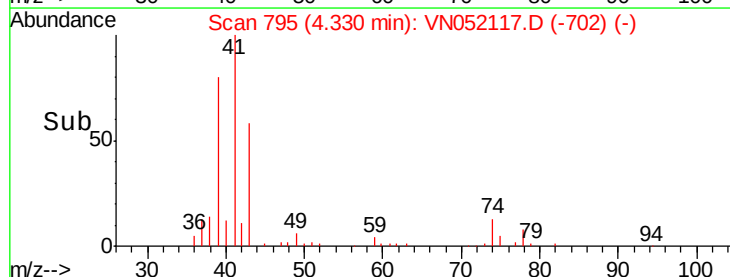
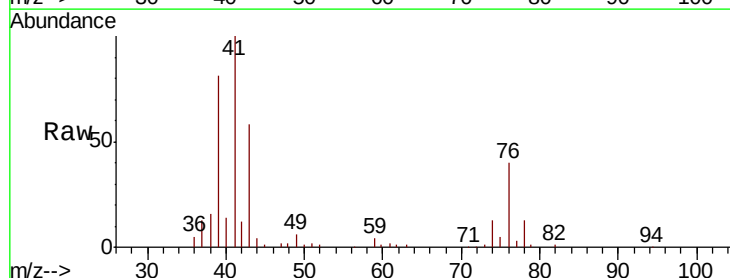
Manual Integrations
APPROVED

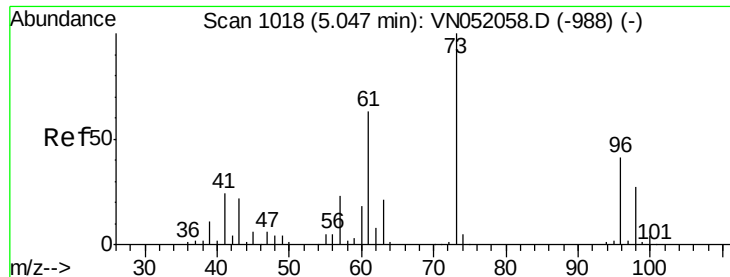
MMDadoda
11/5/2018 11:52:40 AM



#18
Methyl Acetate
Concen: 18.722 ug/l
RT: 4.33 min Scan# 795
Delta R.T. -0.00 min
Lab File: VN052117.D
Acq: 2 Nov 2018 9:53

Tgt Ion	Ratio	Lower	Upper
43	100		
74	22.0	17.9	26.9





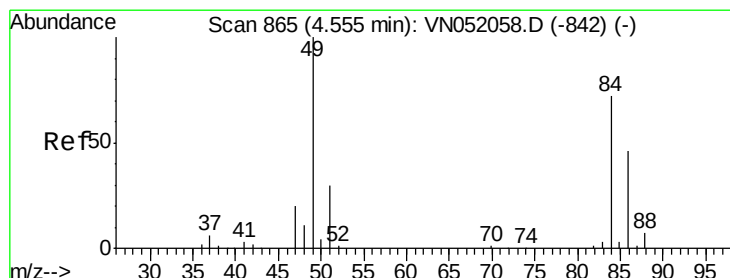
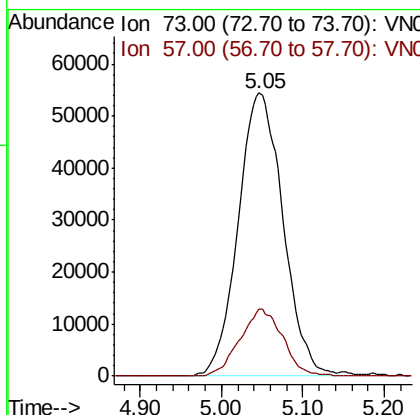
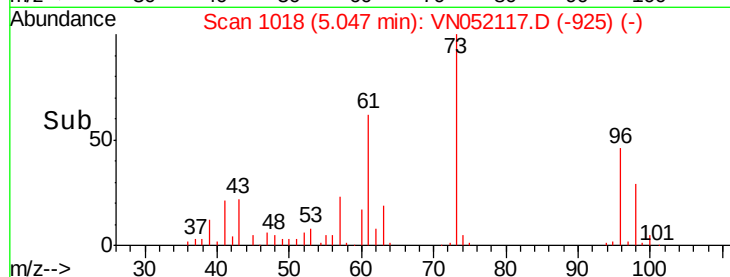
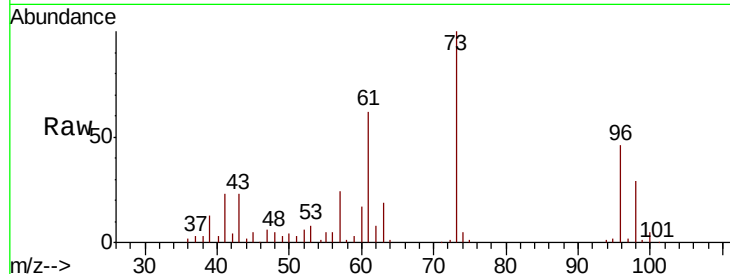
#19
Methyl tert-butyl Ether
Concen: 17.664 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VN052117.D
Acq: 2 Nov 2018 9:53

Instrument :
MSVOA_N
ClientSampled :
VN1102WBS01

Tot Ion: 73 Resp: 207268
Ion Ratio Lower Upper
73 100
57 23.8 18.7 28.1

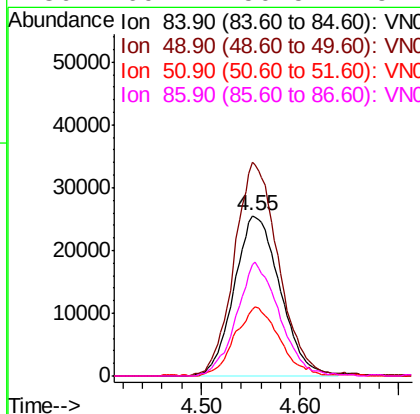
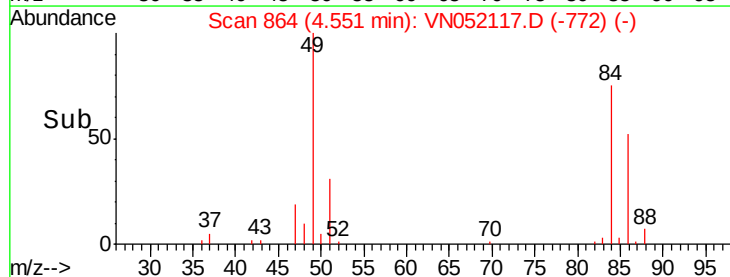
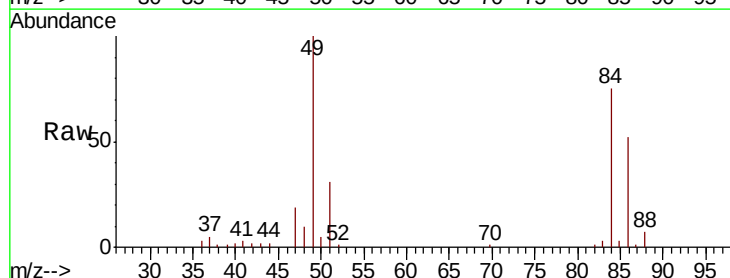
Manual Integrations
APPROVED

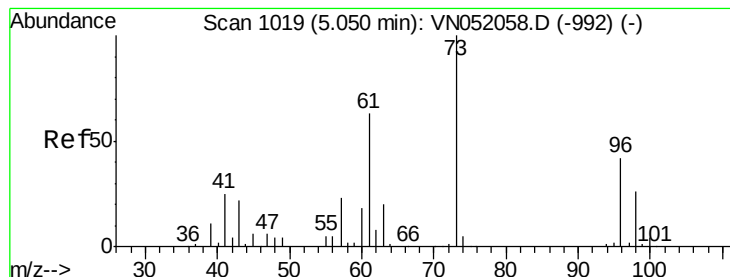
MMDadoda
11/5/2018 11:52:40 AM



#20
Methylene Chloride
Concen: 18.463 ug/l
RT: 4.55 min Scan# 864
Delta R.T. -0.00 min
Lab File: VN052117.D
Acq: 2 Nov 2018 9:53

Tgt Ion: 84 Resp: 82063
Ion Ratio Lower Upper
84 100
49 133.2 110.6 165.8
51 41.9 33.7 50.5
86 69.7 50.5 75.7





#21

trans-1,2-Dichloroethene

Concen: 18.890 ug/l

RT: 5.05 min Scan# 1018

Delta R.T. -0.00 min

Lab File: VN052117.D

Acq: 2 Nov 2018 9:53

Instrument :

MSVOA_N

ClientSampleId :

VN1102WBS01

Tot Ion: 96 Resp: 76947

Ion Ratio Lower Upper

96 100

61 134.4 118.6 178.0

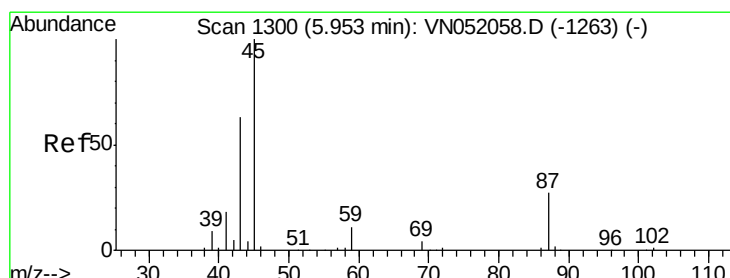
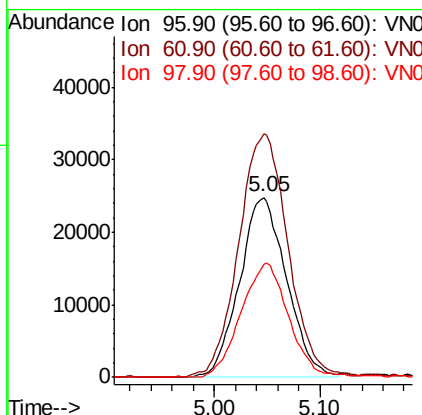
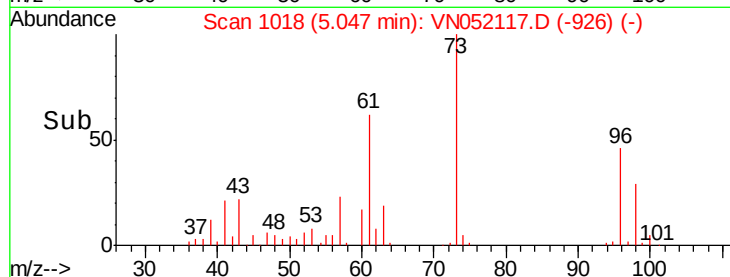
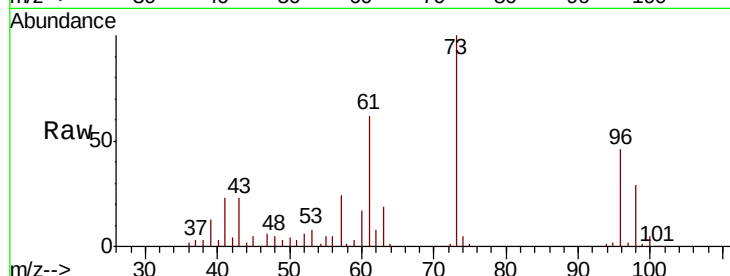
98 62.6 49.7 74.5

Manual Integrations

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11/5/2018 11:52:40 AM



#22

Diisopropyl ether

Concen: 16.866 ug/l

RT: 5.96 min Scan# 1301

Delta R.T. 0.00 min

Lab File: VN052117.D

Acq: 2 Nov 2018 9:53

Tgt Ion: 45 Resp: 260640

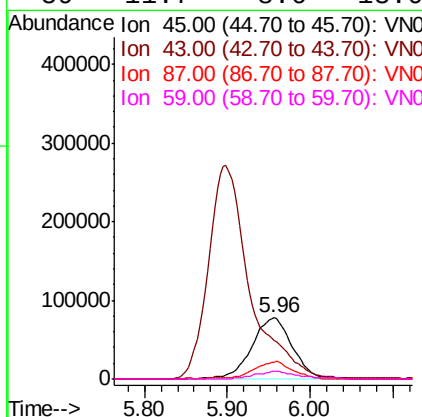
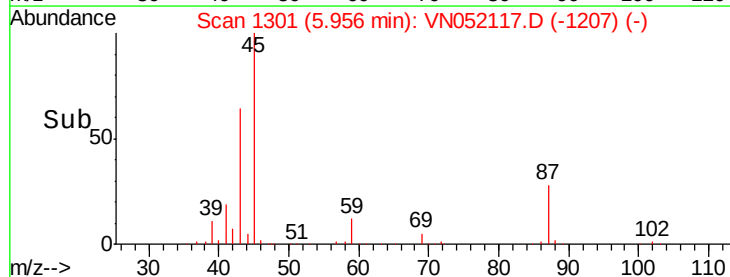
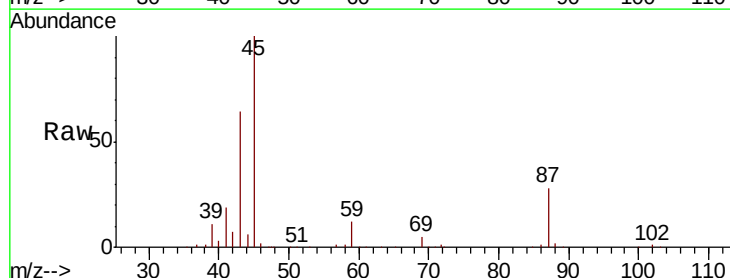
Ion Ratio Lower Upper

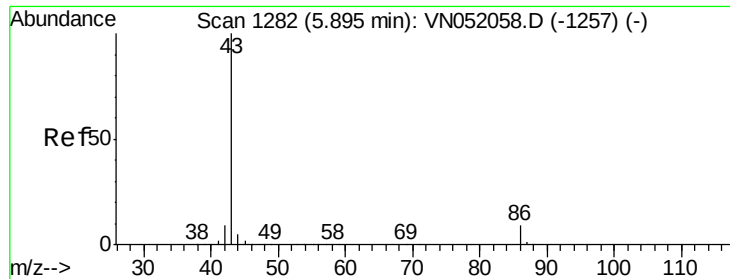
45 100

43 61.1 50.5 75.7

87 27.6 21.5 32.3

59 11.7 8.6 13.0





#23

Vinyl Acetate

Concen: 88.202 ug/l

RT: 5.90 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VN052117.D

Acq: 2 Nov 2018 9:53

Instrument :

MSVOA_N

ClientSampleId :

VN1102WBS01

Tot Ion: 43 Resp: 944380

Ion Ratio Lower Upper

43 100

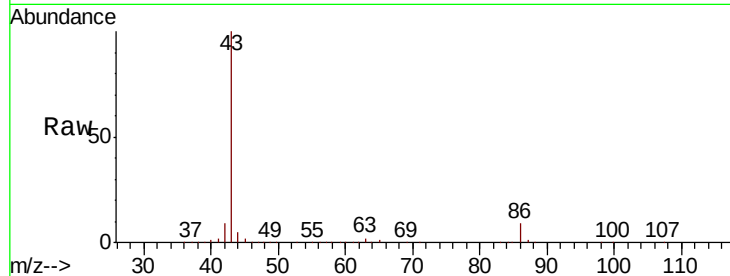
86 9.3 7.3 10.9

Manual Integrations

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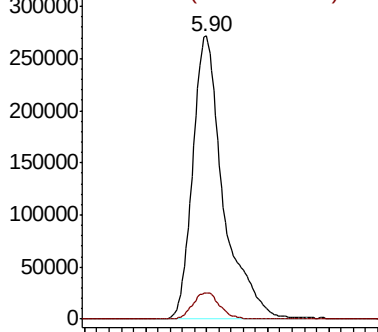
MMDadoda

11/5/2018 11:52:40 AM

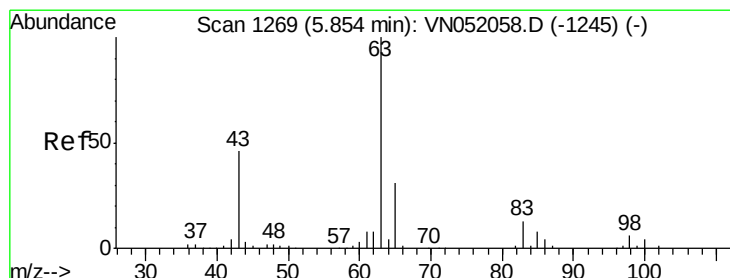
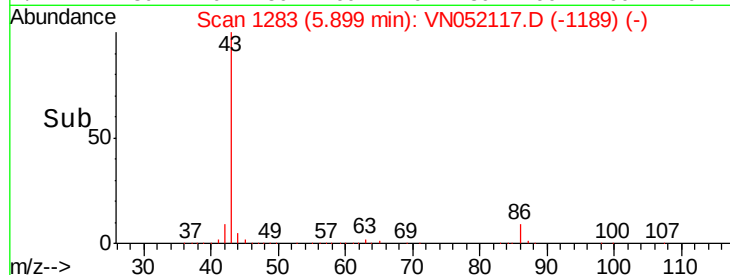


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



Time--> 5.70 5.80 5.90 6.00 6.10



#24

1,1-Dichloroethane

Concen: 17.349 ug/l

RT: 5.85 min Scan# 1268

Delta R.T. -0.00 min

Lab File: VN052117.D

Acq: 2 Nov 2018 9:53

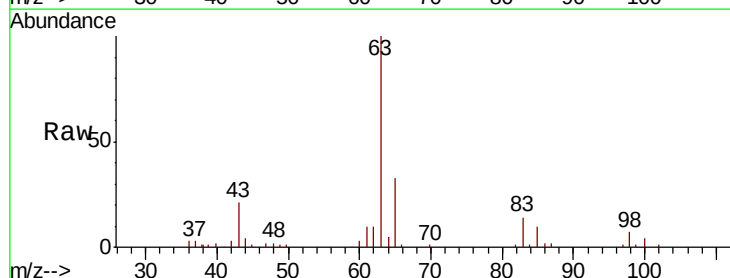
Tgt Ion: 63 Resp: 149909

Ion Ratio Lower Upper

63 100

98 7.2 2.8 8.4

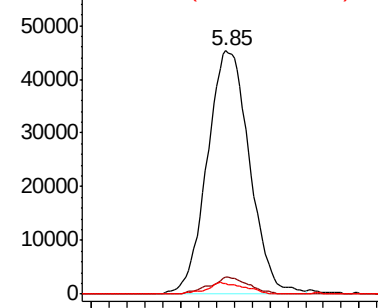
100 4.3 2.0 6.0



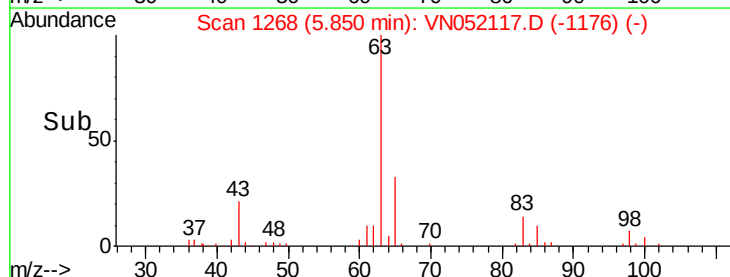
Abundance Ion 62.90 (62.60 to 63.60): VN0

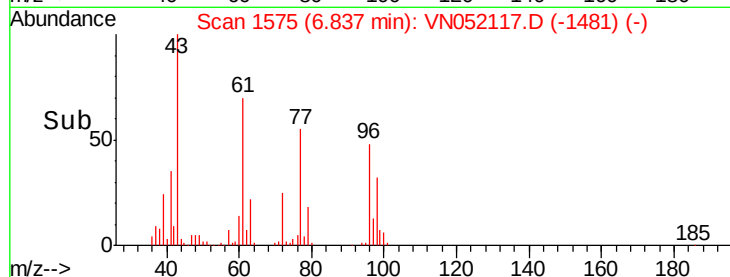
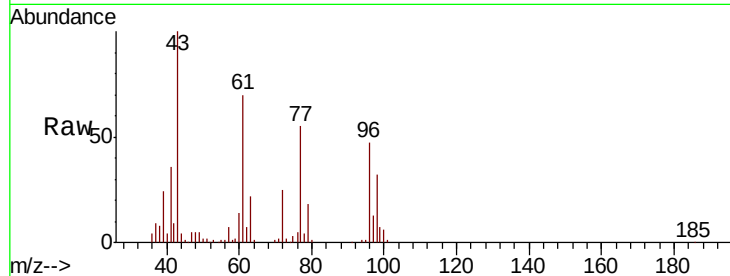
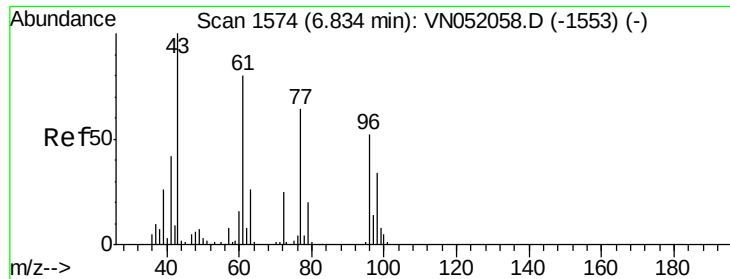
Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0



Time--> 5.70 5.80 5.90 6.00





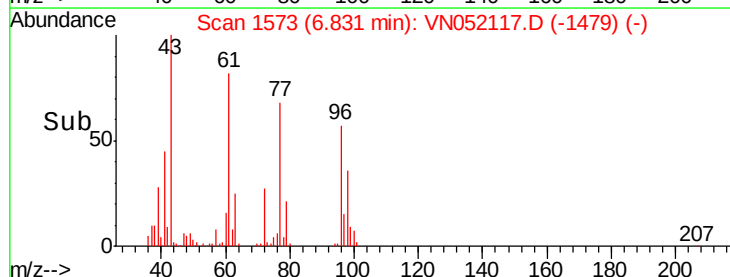
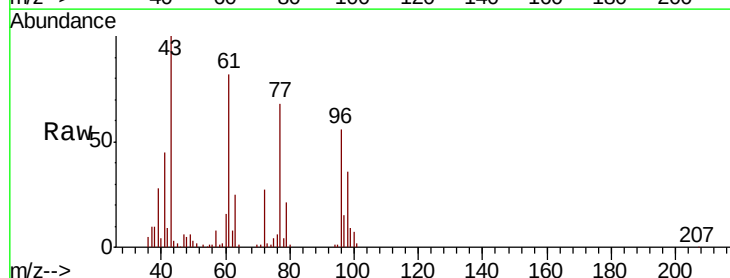
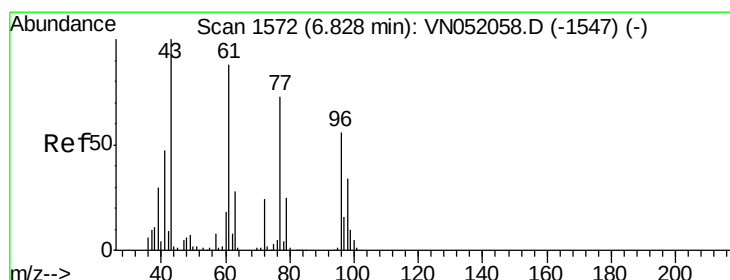
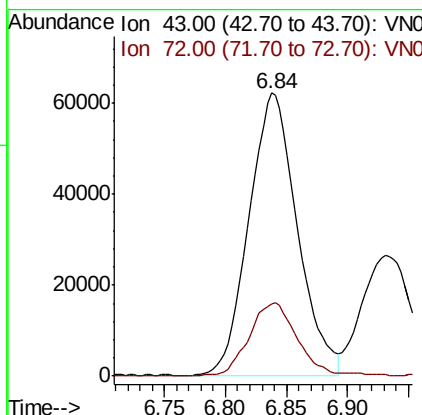
#25
2-Butanone
Concen: 93.165 ug/l
RT: 6.84 min Scan# 1575
Delta R.T. 0.00 min
Lab File: VN052117.D
Acq: 2 Nov 2018 9:53

Tot Ion: 43 Resp: 170448
Ion Ratio Lower Upper
43 100
72 25.5 20.2 30.2

Instrument :
MSVOA_N
ClientSampleId :
VN1102WBS01

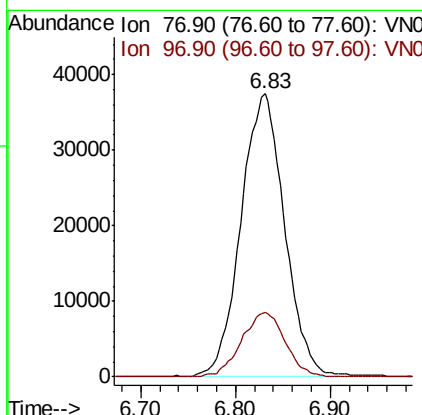
Manual Integrations
APPROVED

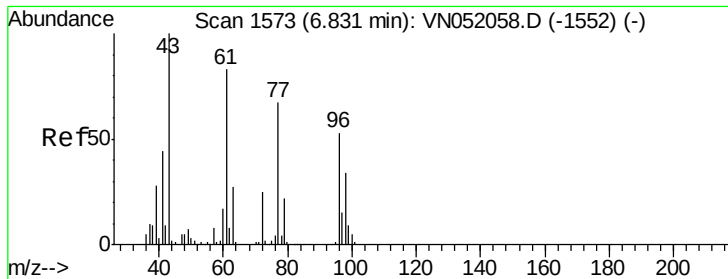
MMDadoda
11/5/2018 11:52:40 AM



#26
2,2-Dichloropropane
Concen: 17.436 ug/l
RT: 6.83 min Scan# 1573
Delta R.T. 0.00 min
Lab File: VN052117.D
Acq: 2 Nov 2018 9:53

Tgt Ion: 77 Resp: 119658
Ion Ratio Lower Upper
77 100
97 22.8 10.5 31.5





#27

cis-1,2-Dichloroethene

Concen: 18.402 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. -0.00 min

Lab File: VN052117.D

Acq: 2 Nov 2018 9:53

Instrument :

MSVOA_N

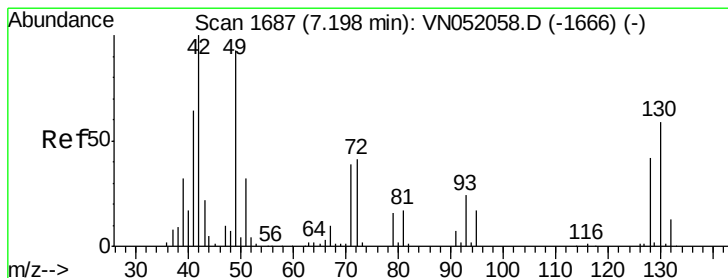
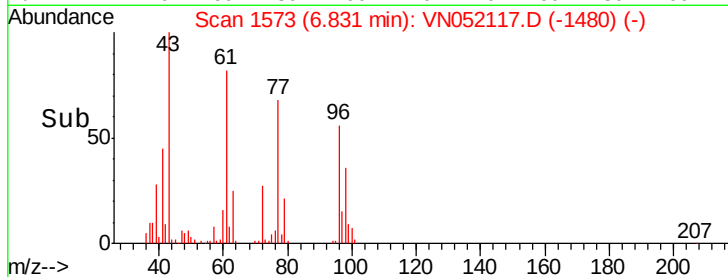
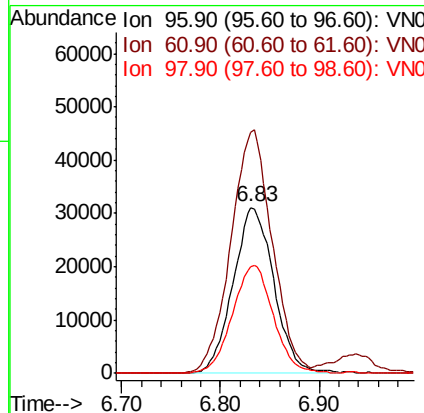
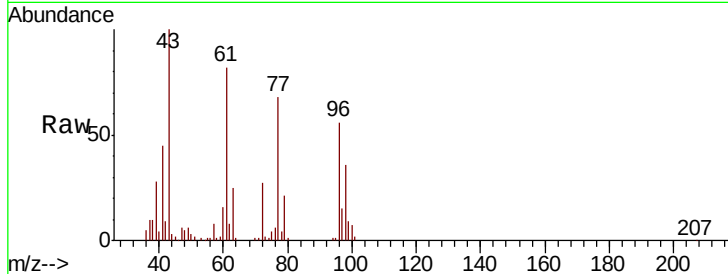
ClientSampleId :

VN1102WBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	148.4	0.0	312.8
98	65.2	0.0	127.0

Manual Integrations
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MMDadoda
11/5/2018 11:52:40 AM



#28

Bromochloromethane

Concen: 16.544 ug/l

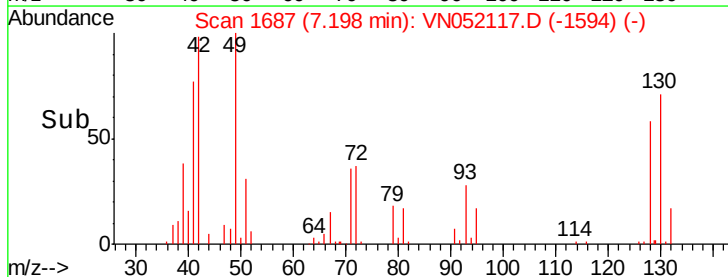
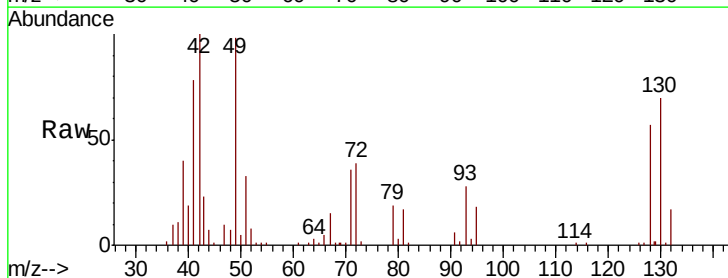
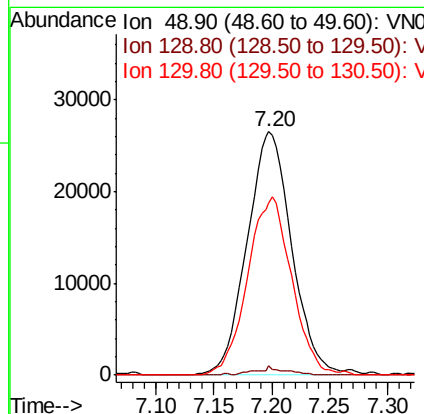
RT: 7.20 min Scan# 1687

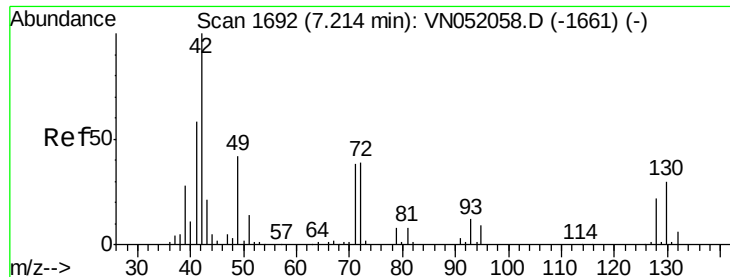
Delta R.T. -0.00 min

Lab File: VN052117.D

Acq: 2 Nov 2018 9:53

Tgt Ion	Ratio	Lower	Upper
49	100		
129	1.6	0.0	2.4
130	72.7	50.8	76.2





#29

Tetrahydrofuran

Concen: 92.917 ug/l

RT: 7.22 min Scan# 1693

Delta R.T. 0.00 min

Lab File: VN052117.D

Acq: 2 Nov 2018 9:53

Instrument :

MSVOA_N

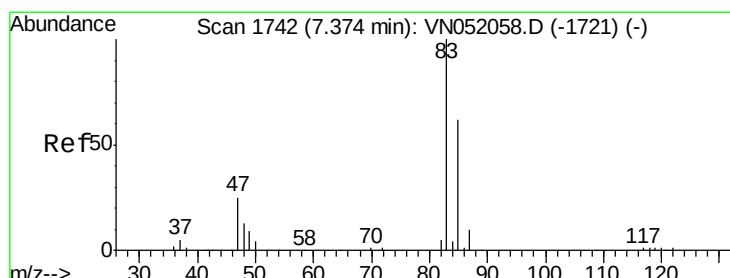
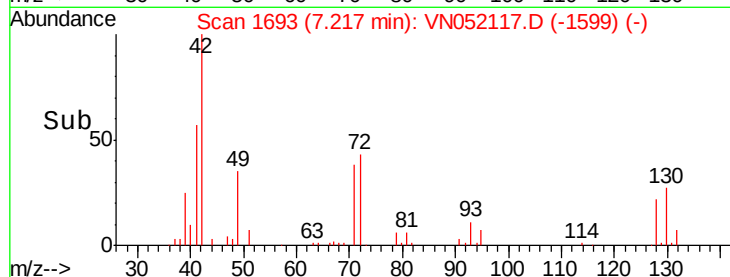
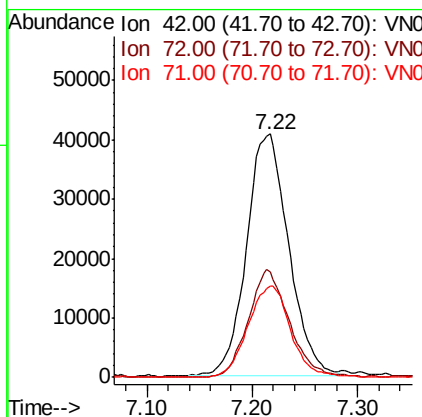
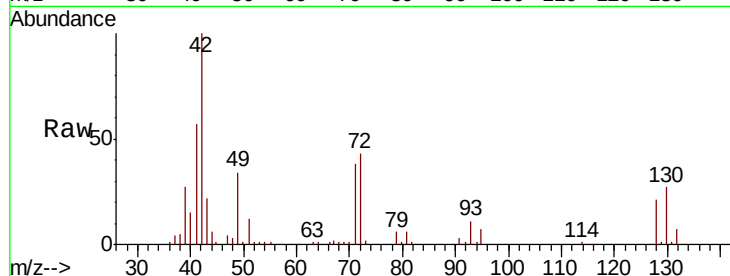
ClientSampleId :

VN1102WBS01

Tot Ion:	42	Resp:	113254
Ion Ratio		Lower	Upper
42	100		
72	43.3	32.5	48.7
71	38.3	30.6	46.0

Manual Integrations
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#30

Chloroform

Concen: 18.149 ug/l

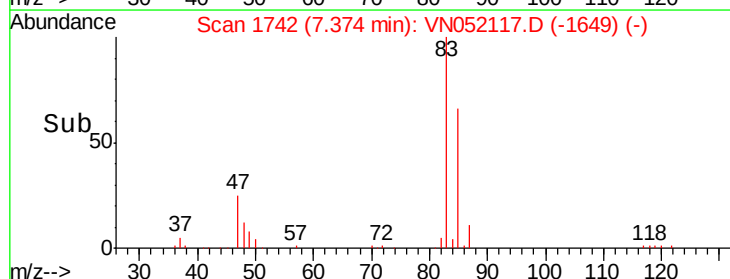
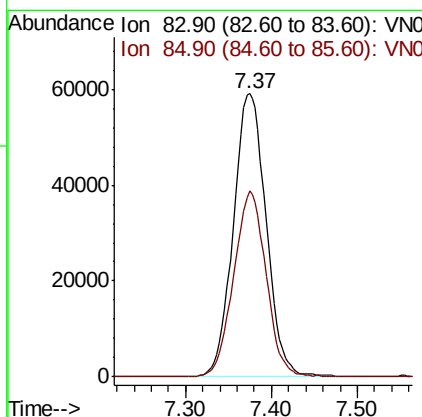
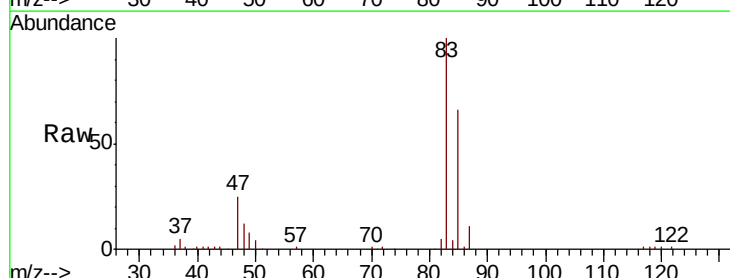
RT: 7.37 min Scan# 1742

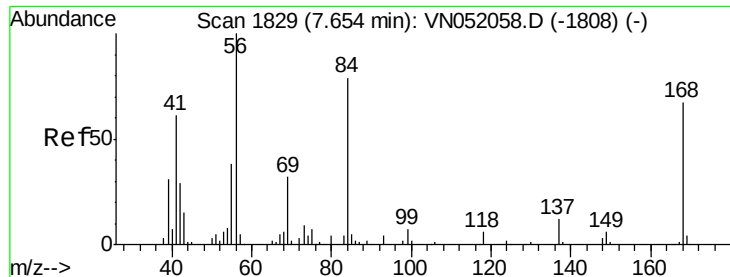
Delta R.T. 0.00 min

Lab File: VN052117.D

Acq: 2 Nov 2018 9:53

Tgt Ion:	83	Resp:	156537
Ion Ratio		Lower	Upper
83	100		
85	65.7	49.6	74.4





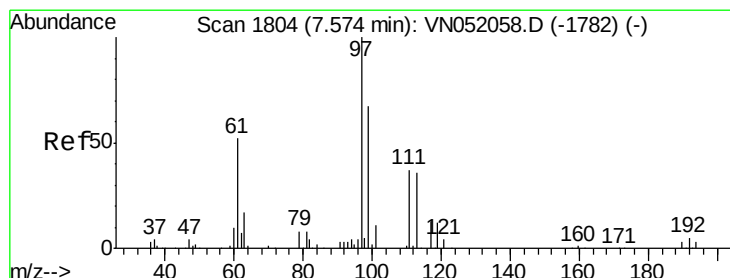
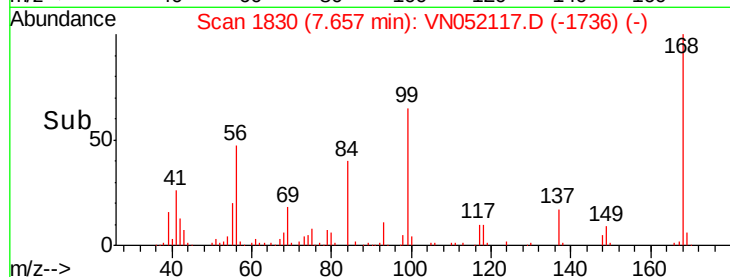
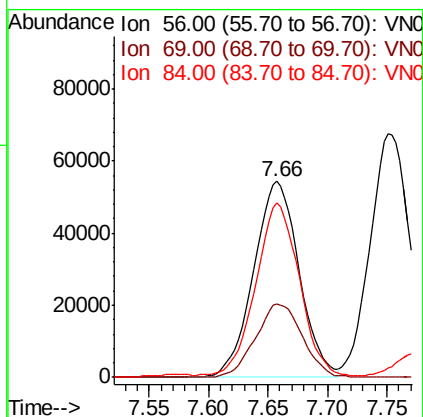
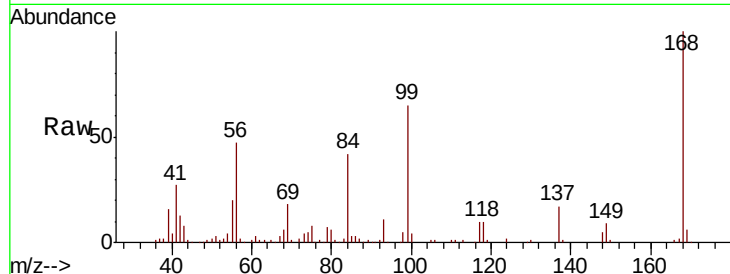
#31
Cyclohexane
Concen: 15.949 ug/l
RT: 7.66 min Scan# 1830
Delta R.T. 0.00 min
Lab File: VN052117.D
Acq: 2 Nov 2018 9:53

Instrument :
MSVOA_N
ClientSampled :
VN1102WBS01

Tot Ion	Ratio	Lower	Upper
56	100		
69	37.2	25.8	38.6
84	87.9	63.5	95.3

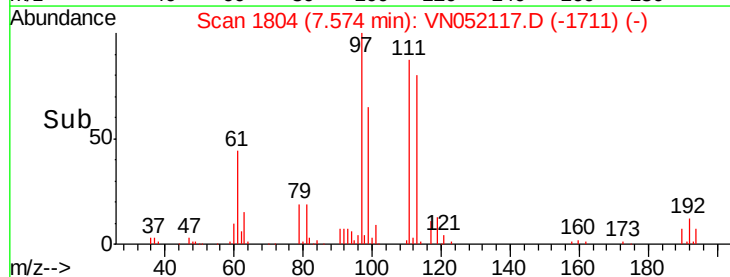
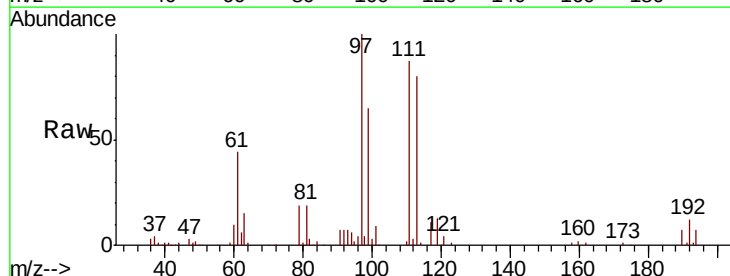
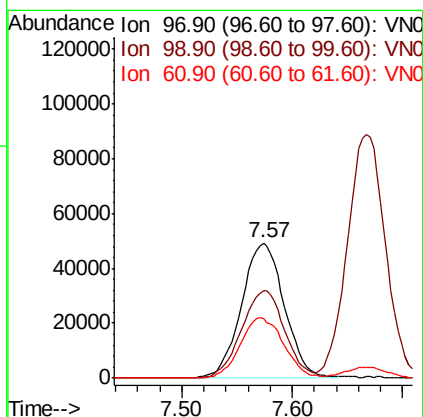
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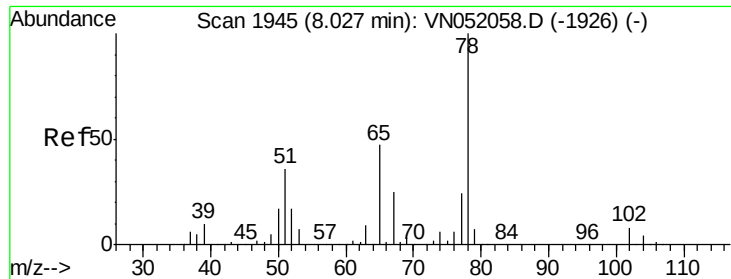
MMDadoda
11/5/2018 11:52:40 AM



#32
1,1,1-Trichloroethane
Concen: 19.064 ug/l
RT: 7.57 min Scan# 1804
Delta R.T. 0.00 min
Lab File: VN052117.D
Acq: 2 Nov 2018 9:53

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.1	51.4	77.2
61	44.3	40.3	60.5





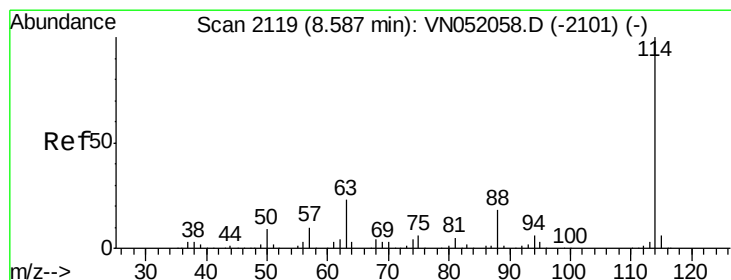
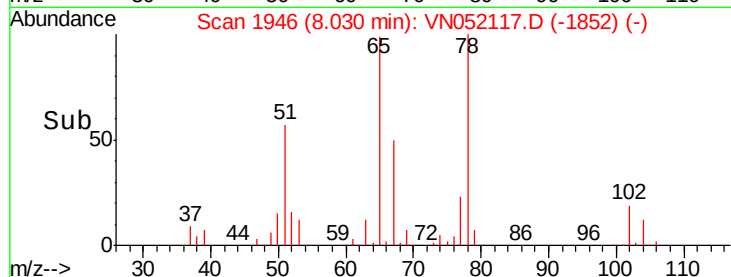
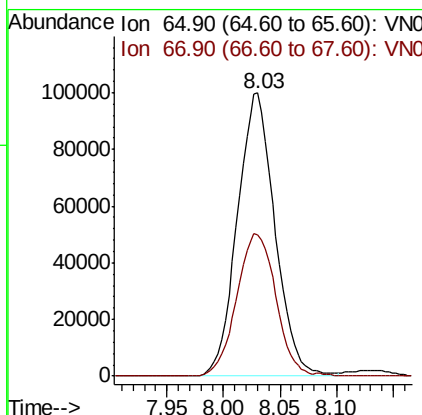
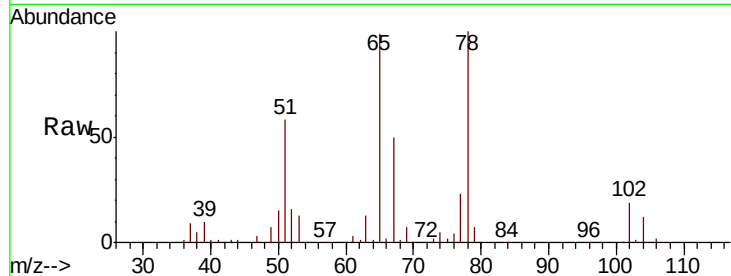
#33
 1,2-Dichloroethane-d4
 Concen: 19.064 ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN052117.D
 Acq: 2 Nov 2018 9:53

Instrument :
 MSVOA_N
 ClientSampled :
 VN1102WBS01

Tot Ion: 65 Resp: 230854
 Ion Ratio Lower Upper
 65 100
 67 52.8 0.0 105.2

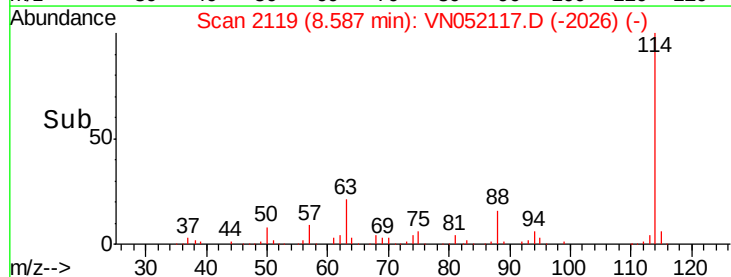
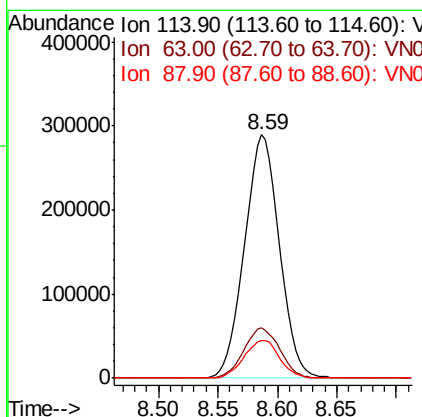
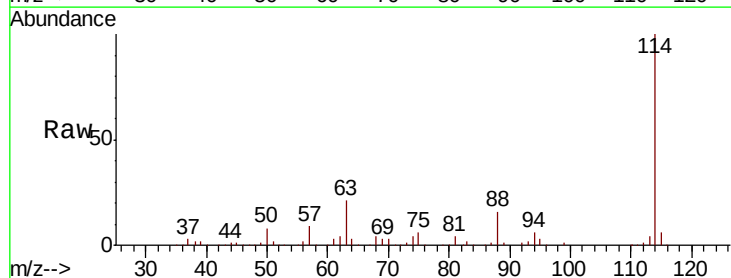
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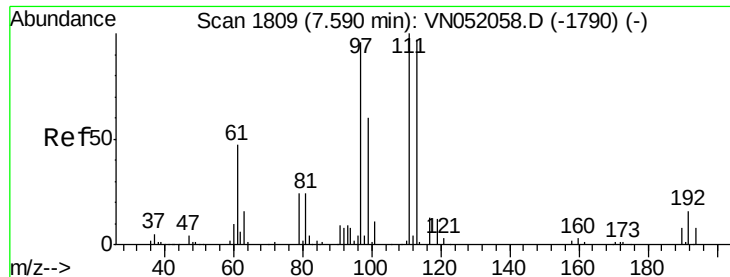
MMDadoda
 11/5/2018 11:52:40 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN052117.D
 Acq: 2 Nov 2018 9:53

Tgt Ion: 114 Resp: 588446
 Ion Ratio Lower Upper
 114 100
 63 20.6 0.0 46.0
 88 15.5 0.0 35.4





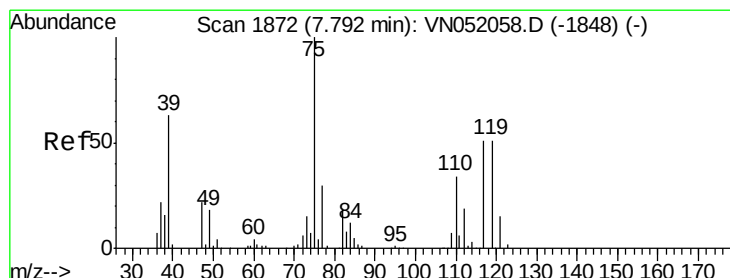
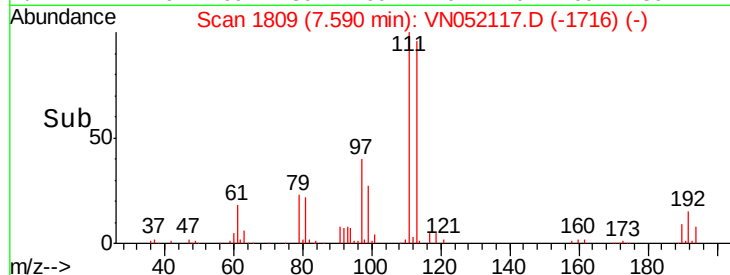
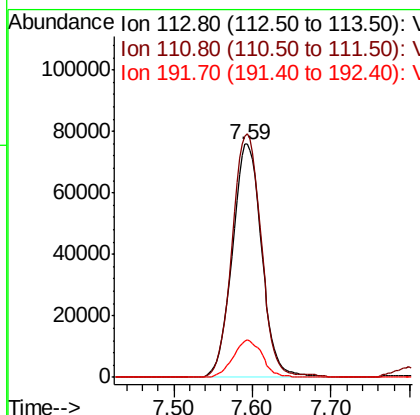
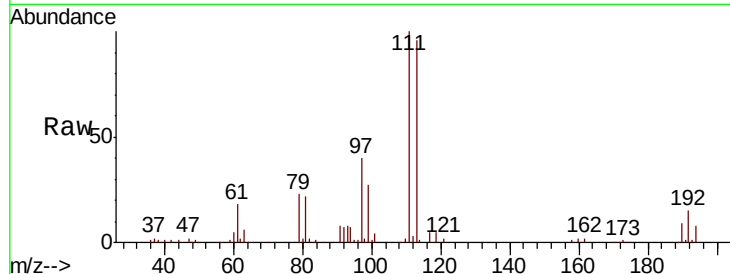
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. -0.00 min
 Lab File: VN052117.D
 Acq: 2 Nov 2018 9:53

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1102WBS01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	197017		
111	102.7	83.1	124.7	
192	15.9	12.7	19.1	

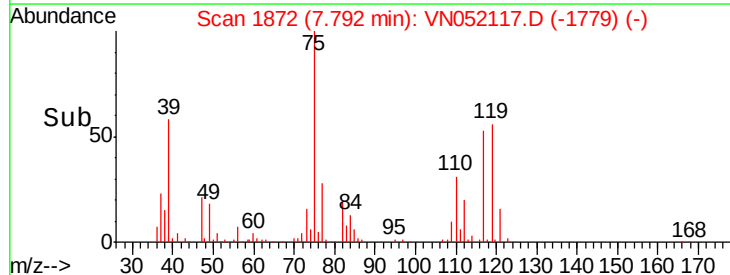
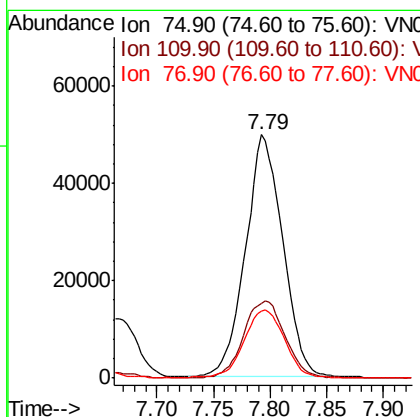
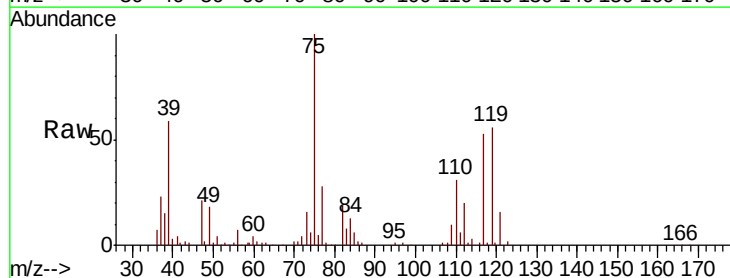
Manual Integrations
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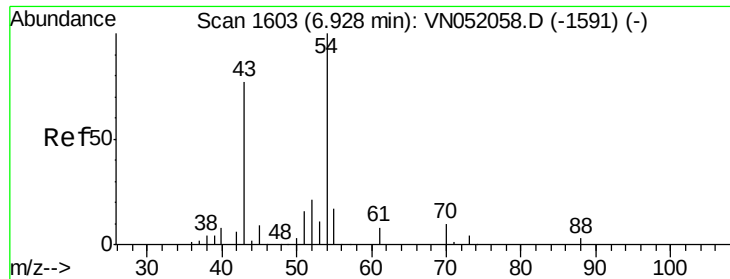
MMDadoda
 11/5/2018 11:52:40 AM



#36
 1,1-Dichloropropene
 Concen: 19.060 ug/l
 RT: 7.79 min Scan# 1872
 Delta R.T. -0.00 min
 Lab File: VN052117.D
 Acq: 2 Nov 2018 9:53

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	114046		
110	35.6	16.0	48.0	
77	31.0	24.5	36.7	





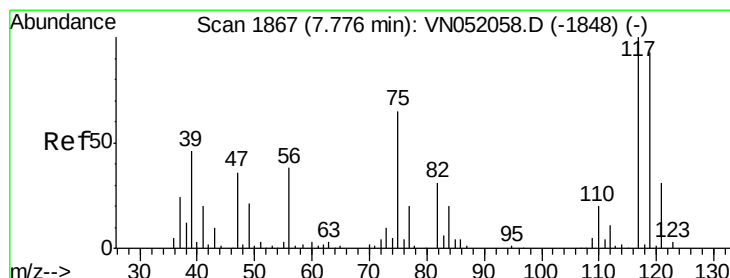
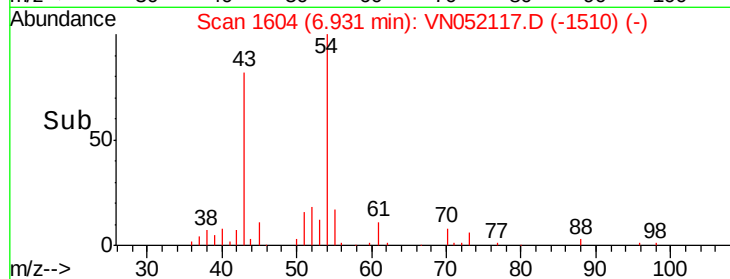
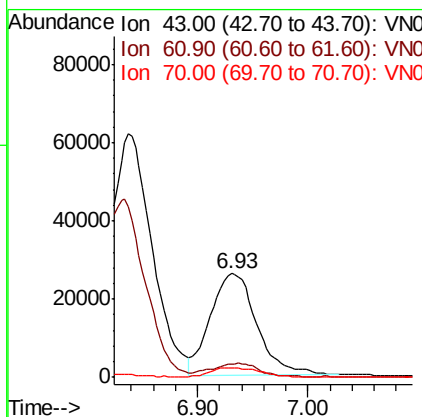
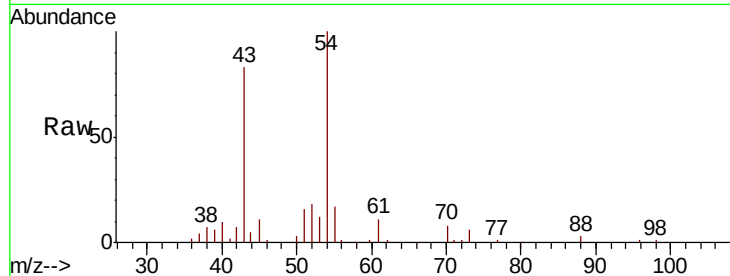
#37
Ethyl Acetate
Concen: 19.073 ug/l
RT: 6.93 min Scan# 1604
Delta R.T. 0.00 min
Lab File: VN052117.D
Acq: 2 Nov 2018 9:53

Instrument :
MSVOA_N
ClientSampled :
VN1102WBS01

Tot Ion	43	61	70
Resp	76385		
Ratio	100	14.8	10.3
Lower		10.9	8.6
Upper		16.3	12.8

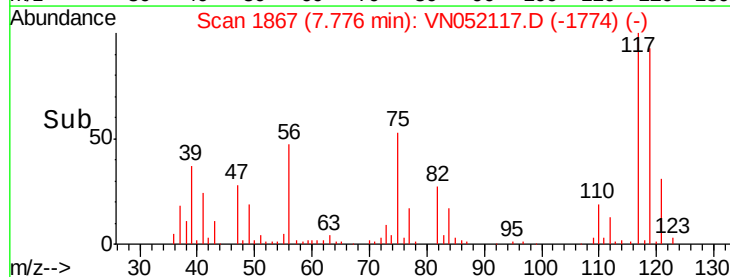
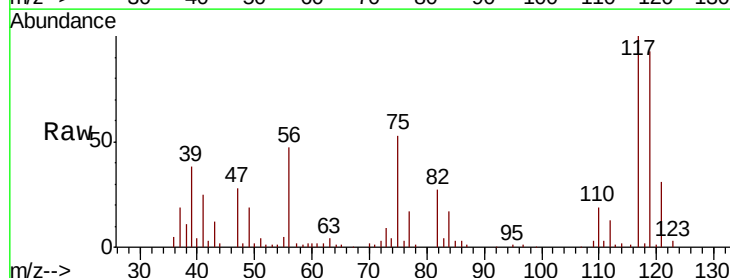
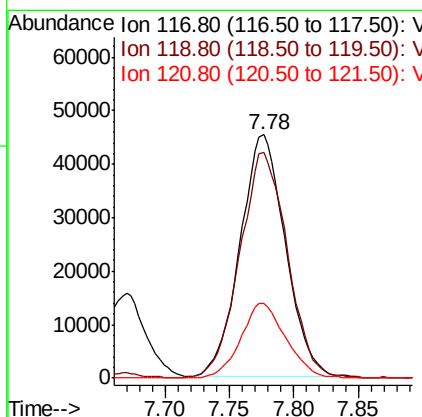
Manual Integrations
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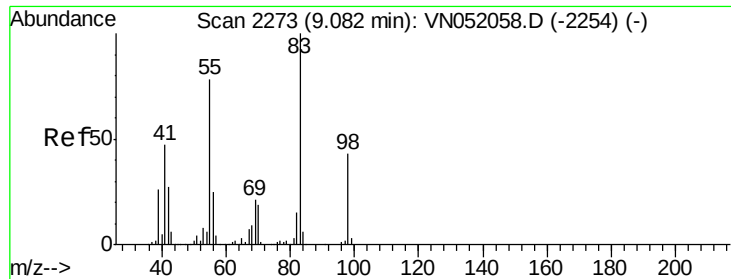
MMDadoda
11/5/2018 11:52:40 AM



#38
Carbon Tetrachloride
Concen: 21.456 ug/l
RT: 7.78 min Scan# 1867
Delta R.T. -0.00 min
Lab File: VN052117.D
Acq: 2 Nov 2018 9:53

Tgt Ion	117	119	121
Resp	110694		
Ratio	100	93.0	30.8
Lower		74.8	25.1
Upper		112.2	37.7





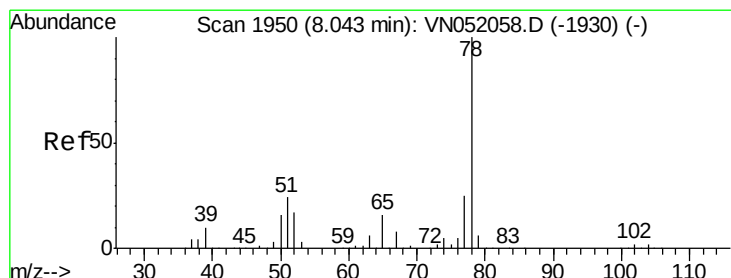
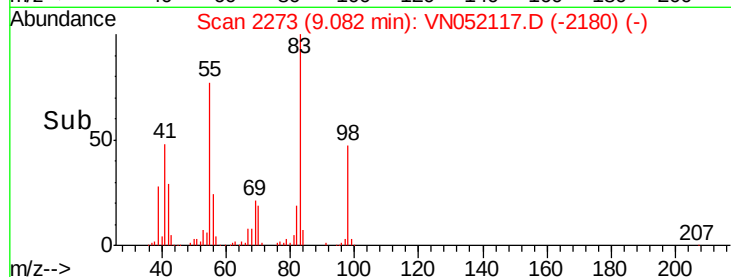
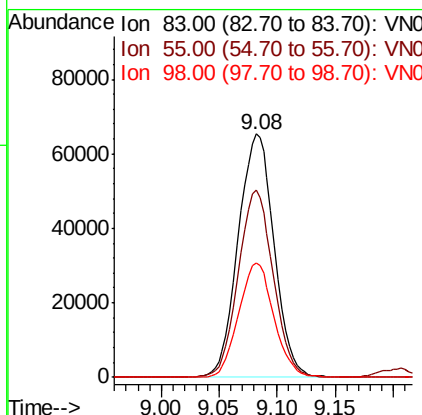
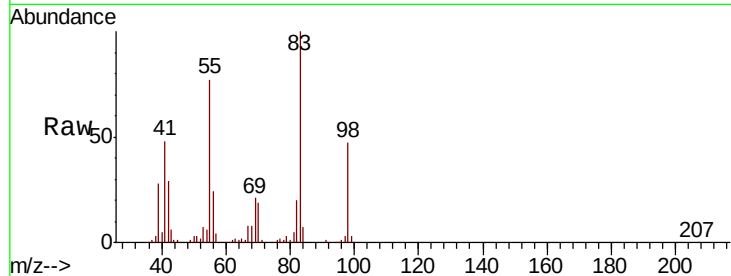
#39
Methylvlcyclohexane
Concen: 19.756 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. -0.00 min
Lab File: VN052117.D
Acq: 2 Nov 2018 9:53

Instrument :
MSVOA_N
ClientSampleId :
VN1102WBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	77.0	62.0	93.0
98	47.2	34.7	52.1

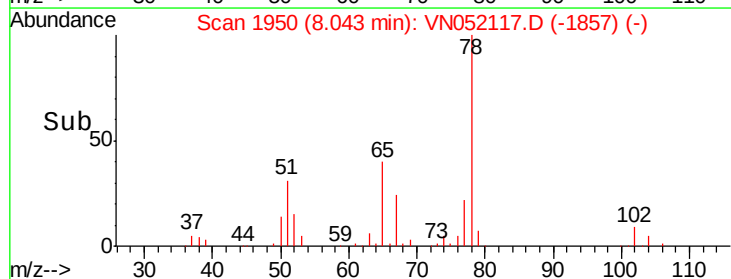
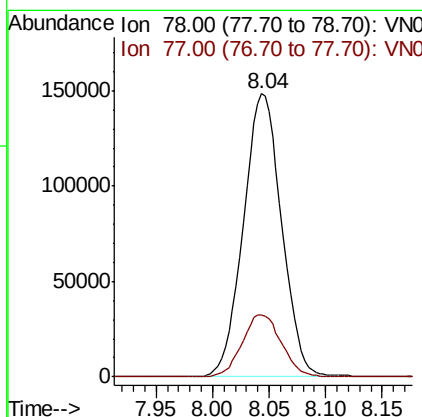
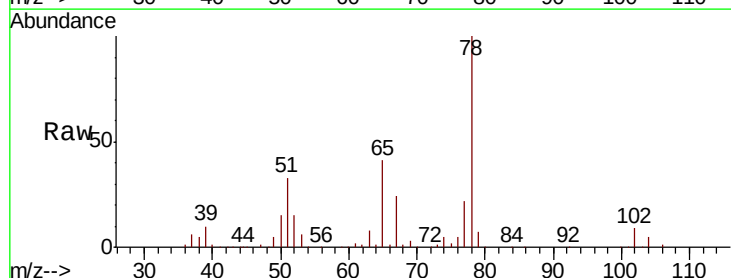
Manual Integrations
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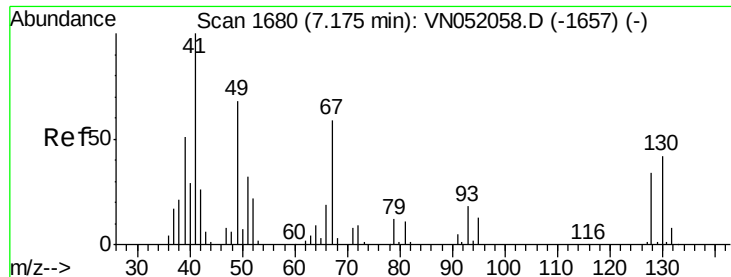
MMDadoda
11/5/2018 11:52:40 AM



#40
Benzene
Concen: 20.149 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN052117.D
Acq: 2 Nov 2018 9:53

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.0	19.8	29.6





#41

Methacrylonitrile

Concen: 21.419 ug/l

RT: 7.18 min Scan# 1680

Delta R.T. 0.00 min

Lab File: VN052117.D

Acq: 2 Nov 2018 9:53

Instrument :

MSVOA_N

ClientSampleId :

VN1102WBS01

Tot Ion: 41 Resp: 44096

Ion Ratio Lower Upper

41 100

39 46.3 33.2 49.8

67 73.2 63.5 95.3

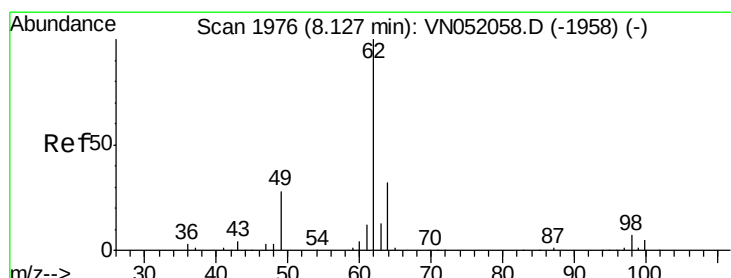
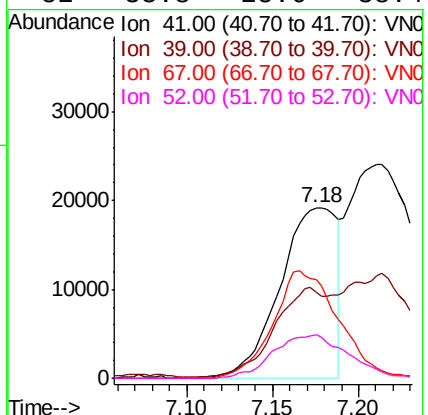
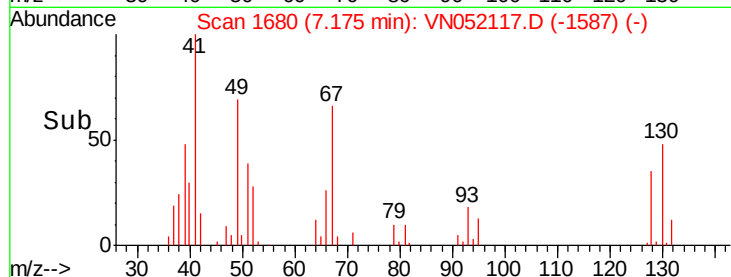
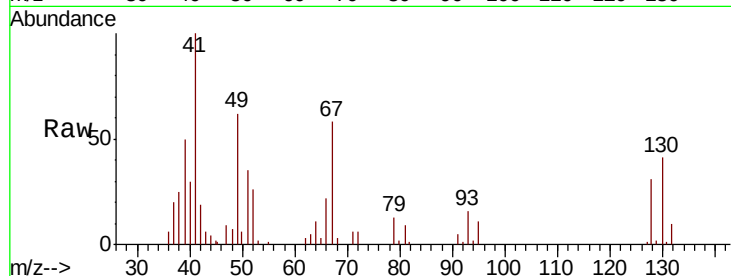
52 33.8 25.6 38.4

Manual Integrations

APPROVED

MMDadoda

11/5/2018 11:52:40 AM



#42

1,2-Dichloroethane

Concen: 17.601 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. 0.00 min

Lab File: VN052117.D

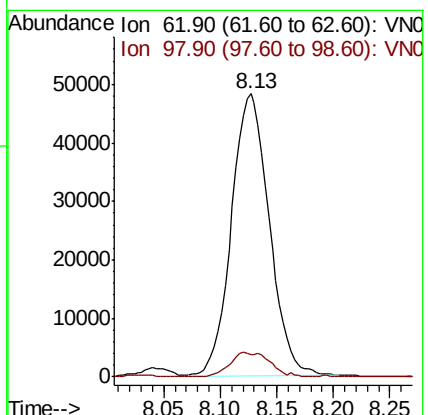
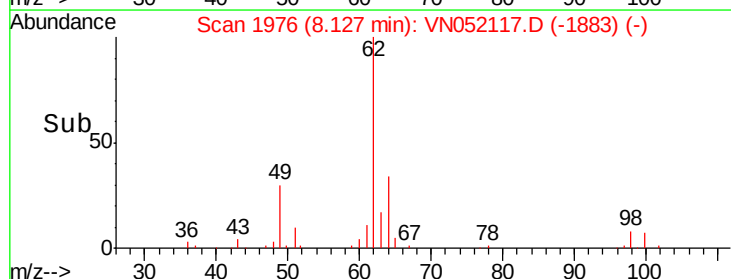
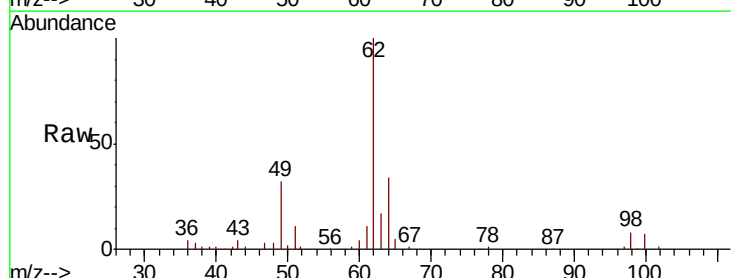
Acq: 2 Nov 2018 9:53

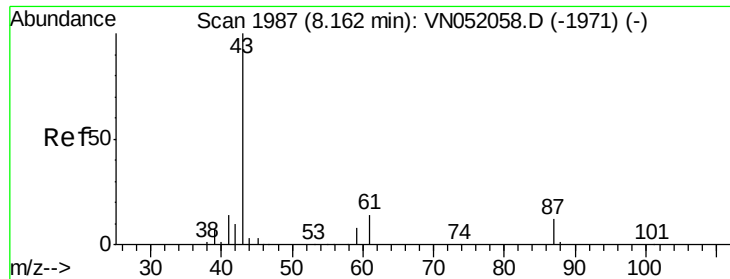
Tgt Ion: 62 Resp: 112413

Ion Ratio Lower Upper

62 100

98 9.1 0.0 15.2





#43

Isopropyl Acetate

Concen: 19.613 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN052117.D

Acq: 2 Nov 2018 9:53

Instrument :

MSVOA_N

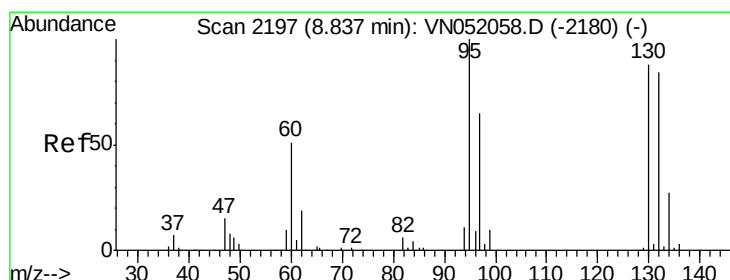
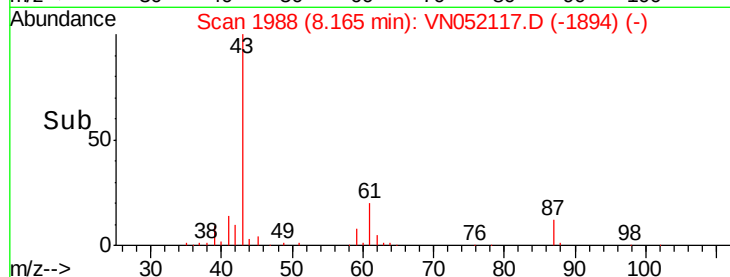
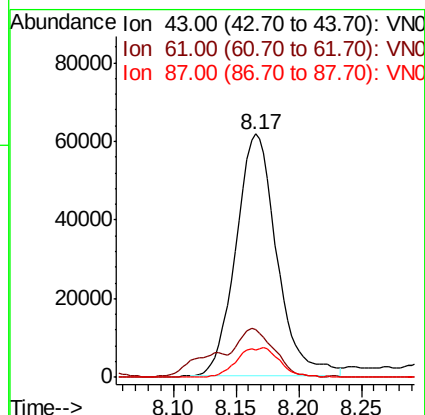
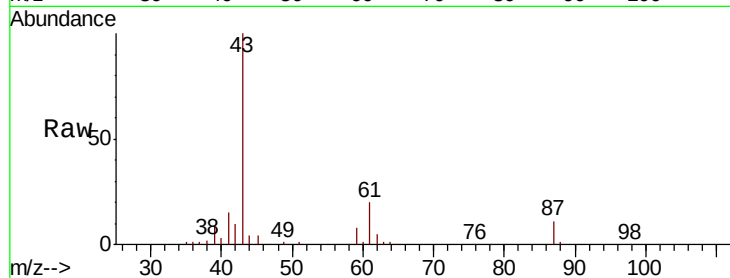
ClientSampleId :

VN1102WBS01

Tot Ion:	43	Resp:	139707
Ion	Ratio	Lower	Upper
43	100		
61	17.9	15.4	23.0
87	12.8	9.8	14.8

Manual Integrations
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#44

Trichloroethene

Concen: 21.162 ug/l

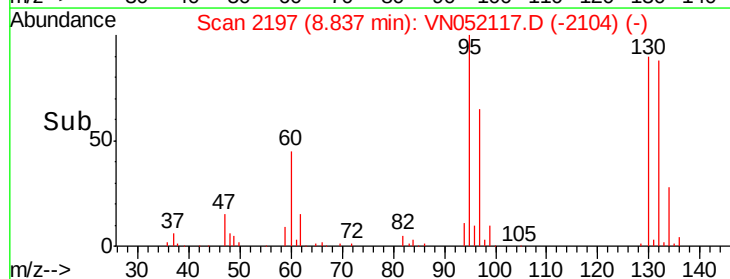
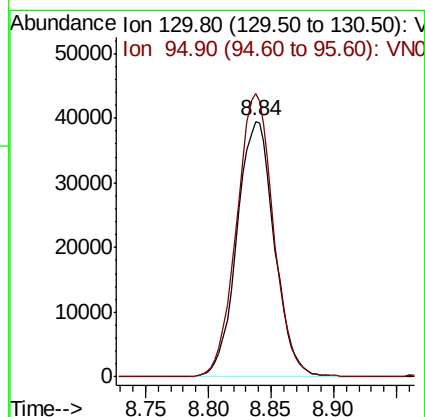
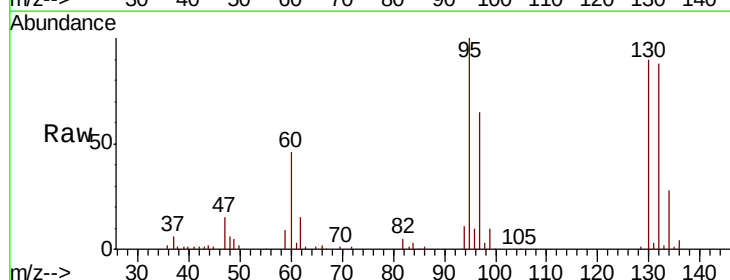
RT: 8.84 min Scan# 2197

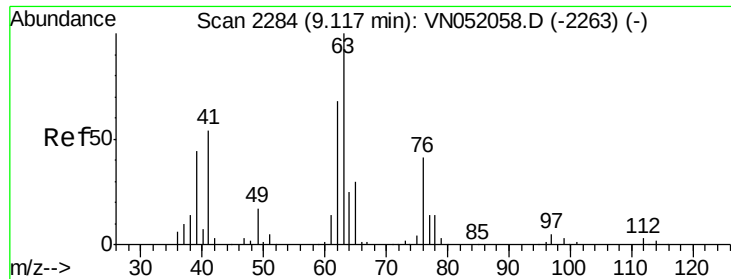
Delta R.T. -0.00 min

Lab File: VN052117.D

Acq: 2 Nov 2018 9:53

Tgt Ion:	130	Resp:	81906
Ion	Ratio	Lower	Upper
130	100		
95	110.7	0.0	228.4





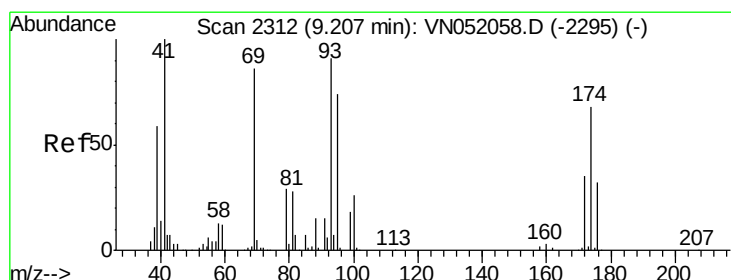
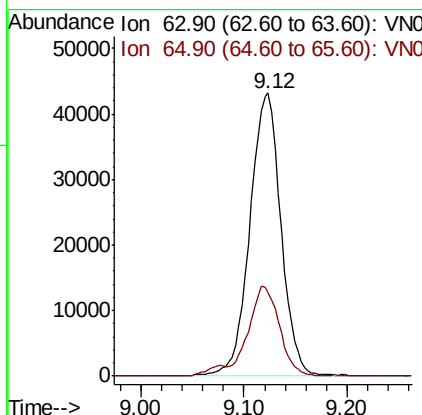
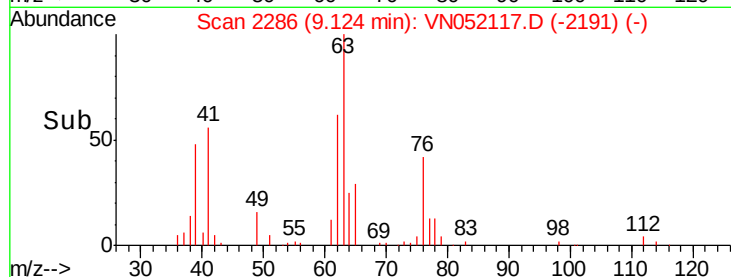
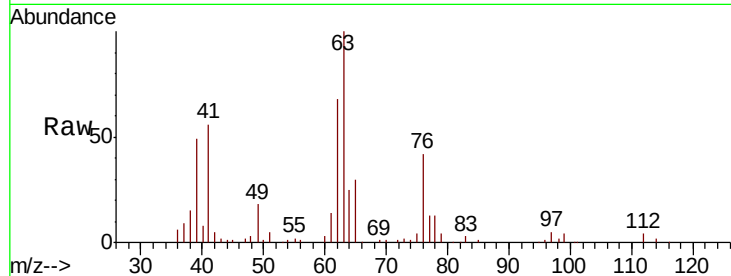
#45
 1,2-Dichloropropane
 Concen: 18.281 ug/l
 RT: 9.12 min Scan# 2286
 Delta R.T. 0.01 min
 Lab File: VN052117.D
 Acq: 2 Nov 2018 9:53

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1102WBS01

Tot Ion: 63 Resp: 90127
 Ion Ratio Lower Upper
 63 100
 65 29.5 24.5 36.7

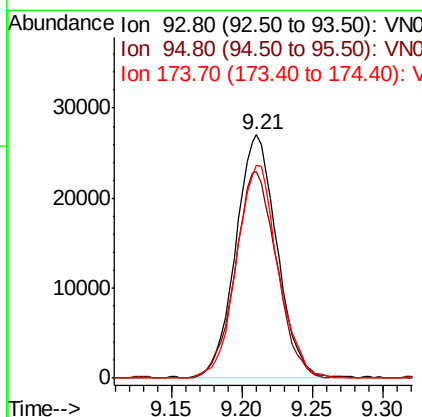
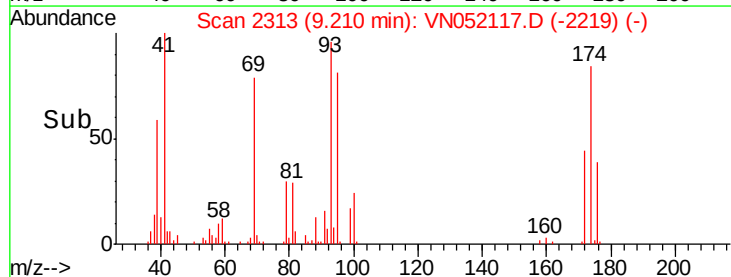
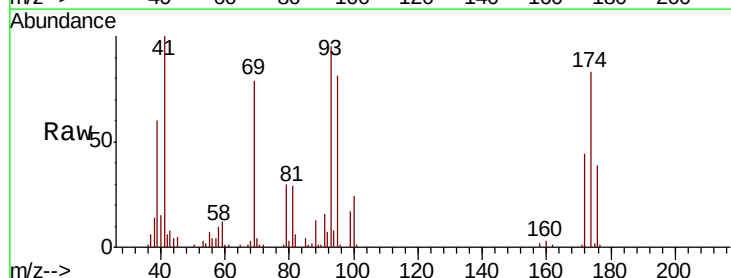
Manual Integrations
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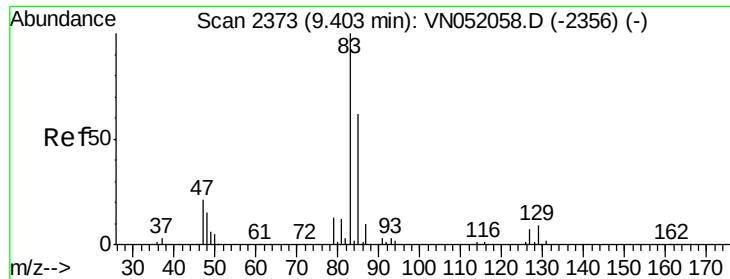
MMDadoda
 11/5/2018 11:52:40 AM



#46
 Dibromomethane
 Concen: 20.093 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN052117.D
 Acq: 2 Nov 2018 9:53

Tgt Ion: 93 Resp: 55365
 Ion Ratio Lower Upper
 93 100
 95 85.2 67.2 100.8
 174 87.7 59.7 89.5





#47

Bromodichloromethane

Concen: 19.974 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. -0.00 min

Lab File: VN052117.D

Acq: 2 Nov 2018 9:53

Instrument :

MSVOA_N

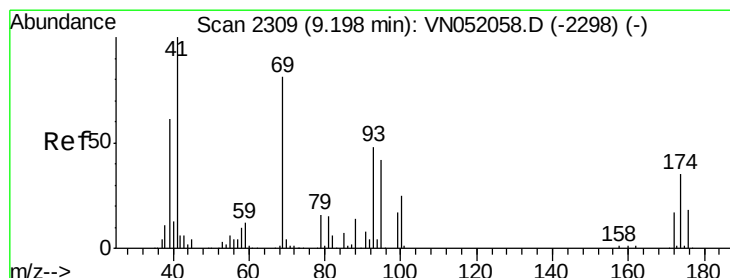
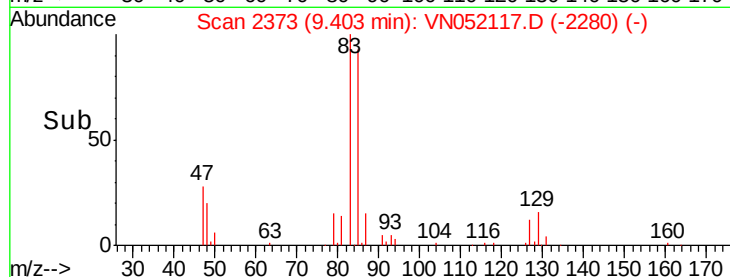
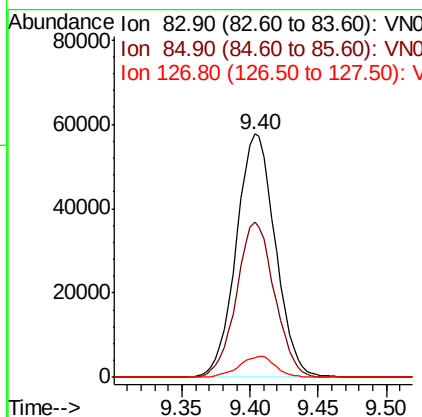
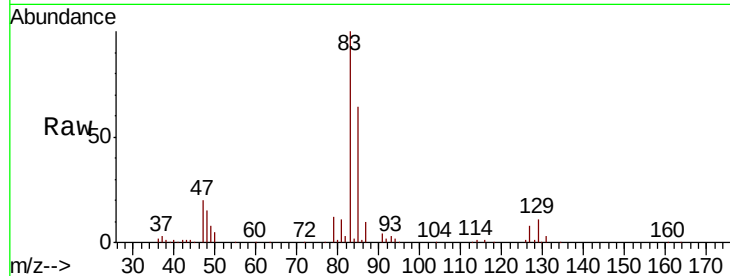
ClientSampleId :

VN1102WBS01

Tot Ion:	83	Resp:	114787
Ion Ratio	Lower	Upper	
83	100		
85	63.7	49.4	74.2
127	8.1	5.8	8.8

Manual Integrations
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#48

Methyl methacrylate

Concen: 19.336 ug/l

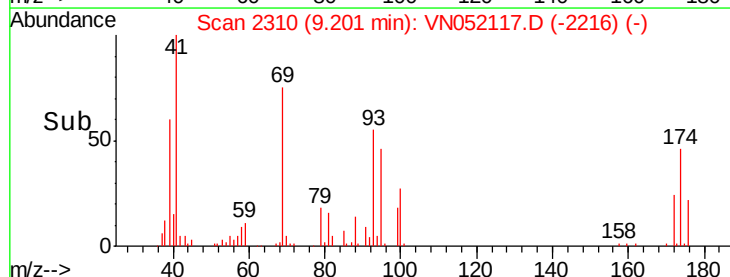
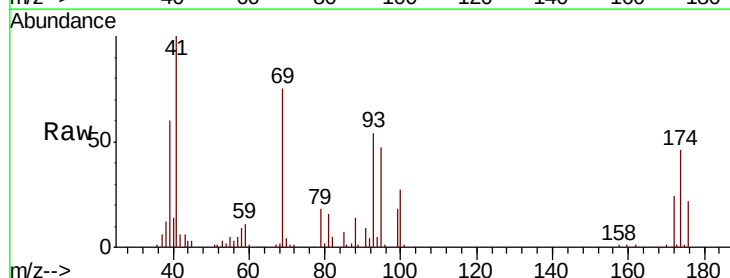
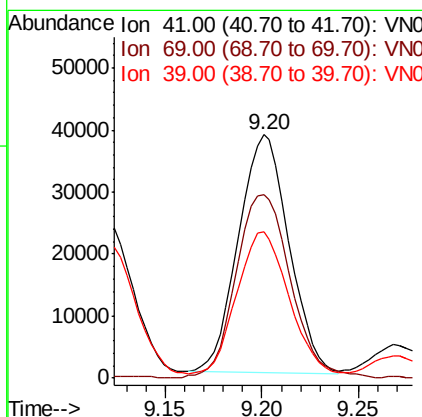
RT: 9.20 min Scan# 2310

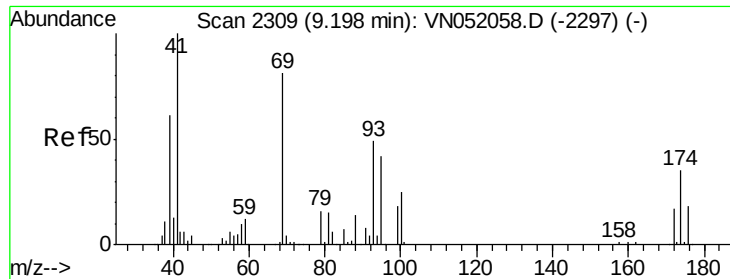
Delta R.T. 0.00 min

Lab File: VN052117.D

Acq: 2 Nov 2018 9:53

Tgt Ion:	41	Resp:	69831
Ion Ratio	Lower	Upper	
41	100		
69	83.3	67.1	100.7
39	63.7	50.5	75.7





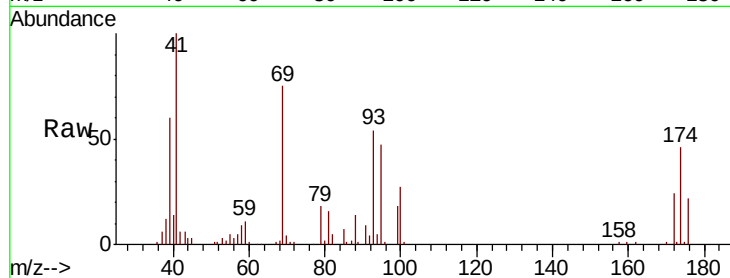
#49
1,4-Dioxane
Concen: 364.887 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN052117.D
Acq: 2 Nov 2018 9:53

Instrument :
MSVOA_N
ClientSampleId :
VN1102WBS01

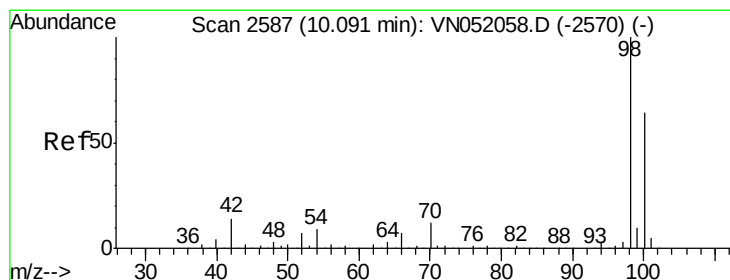
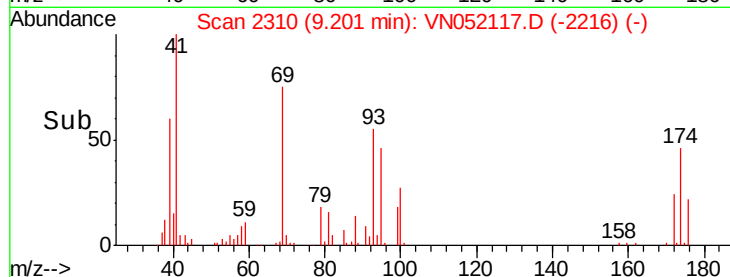
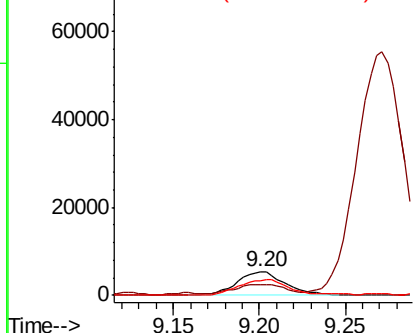
Tot Ion	Ratio	Lower	Upper
88	100		
43	41.0	34.1	51.1
58	67.4	62.8	94.2

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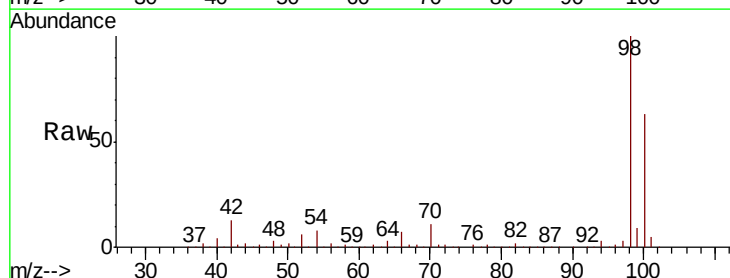


Abundance Ion 88.00 (87.70 to 88.70): VN052058.D (-2297) (-)
Ion 43.00 (42.70 to 43.70): VN052058.D (-2297) (-)
Ion 58.00 (57.70 to 58.70): VN052058.D (-2297) (-)

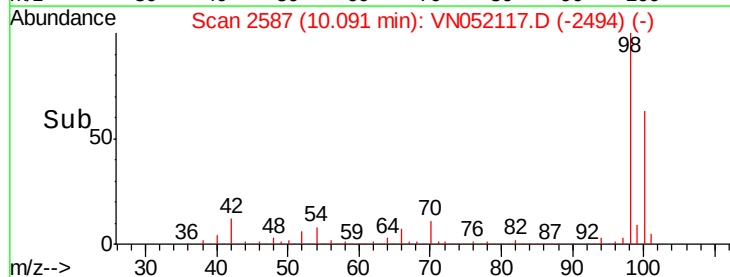
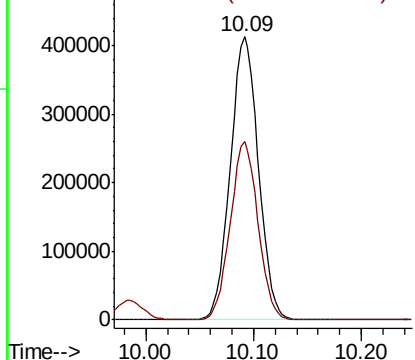


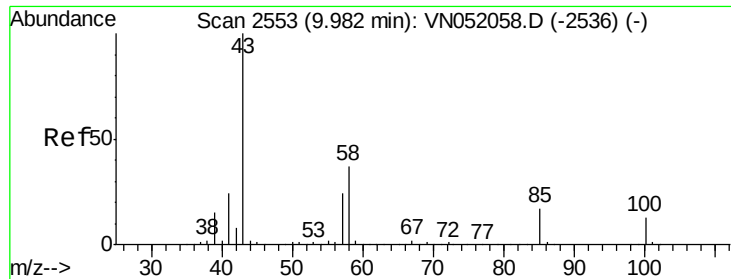
#50
Toluene-d8
Concen: 364.887 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN052117.D
Acq: 2 Nov 2018 9:53

Tgt Ion	Ratio	Lower	Upper
98	100		
100	62.2	51.4	77.2



Abundance Ion 98.00 (97.70 to 98.70): VN052058.D (-2570) (-)
Ion 100.00 (99.70 to 100.70): VN052058.D (-2570) (-)





#51

4-Methyl-2-Pentanone

Concen: 100.364 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN052117.D

Acq: 2 Nov 2018 9:53

Instrument :

MSVOA_N

ClientSampleId :

VN1102WBS01

Tot Ion: 43 Resp: 388567

Ion Ratio Lower Upper

43 100

58 36.7

29.7

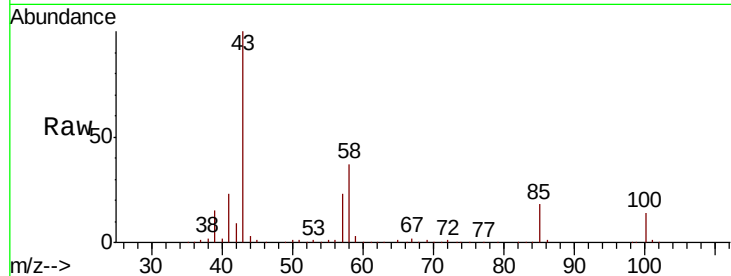
44.5

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11/5/2018 11:52:40 AM



Abundance Ion 43.00 (42.70 to 43.70): VN052058.D (-2536) (-)

Ion 58.00 (57.70 to 58.70): VN052058.D (-2536) (-)

250000

200000

150000

100000

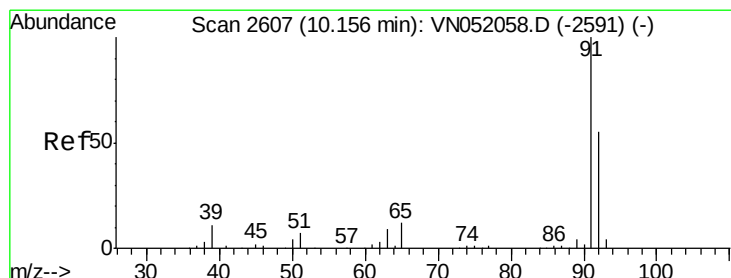
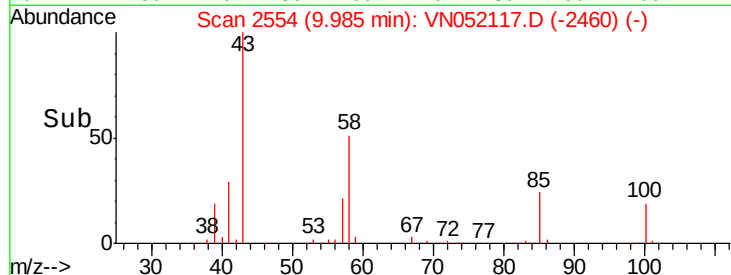
50000

0

9.90

10.00

Time-->



#52

Toluene

Concen: 20.259 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN052117.D

Acq: 2 Nov 2018 9:53

Tgt Ion: 92 Resp: 211653

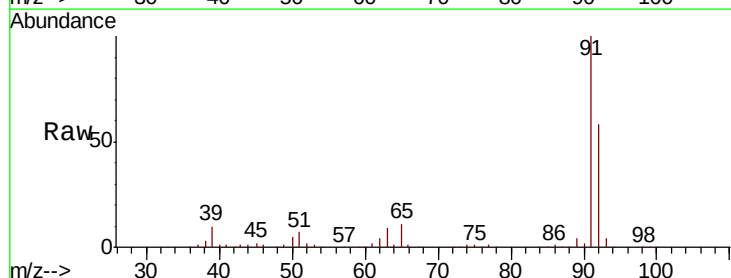
Ion Ratio Lower Upper

92 100

91 174.5

143.9

215.9



Abundance Ion 92.00 (91.70 to 92.70): VN052058.D (-2591) (-)

Ion 91.00 (90.70 to 91.70): VN052058.D (-2591) (-)

200000

150000

100000

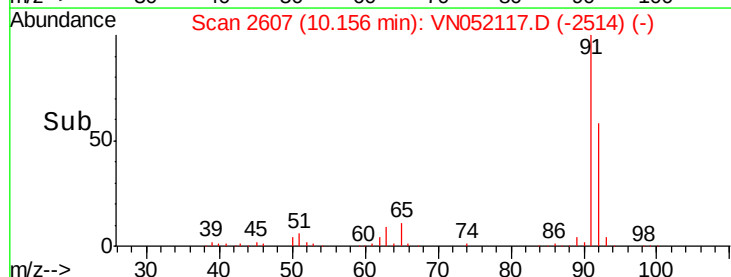
50000

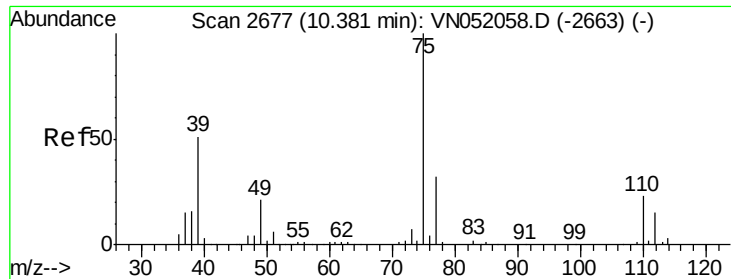
0

10.10

10.20

Time-->





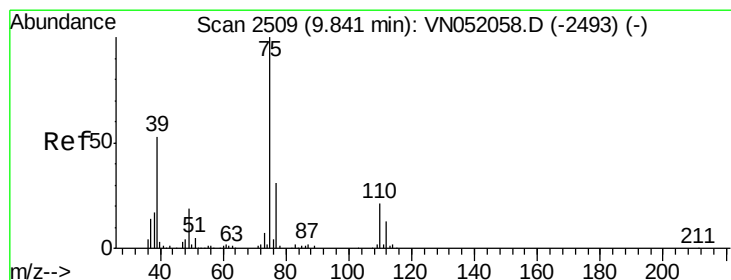
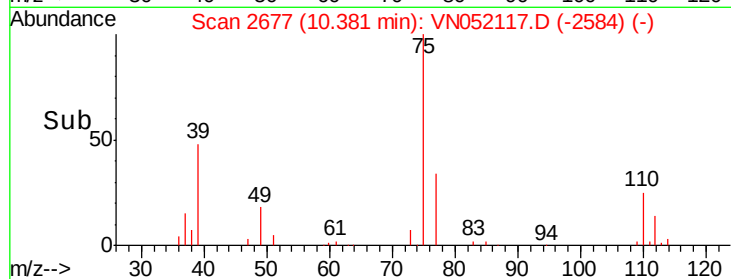
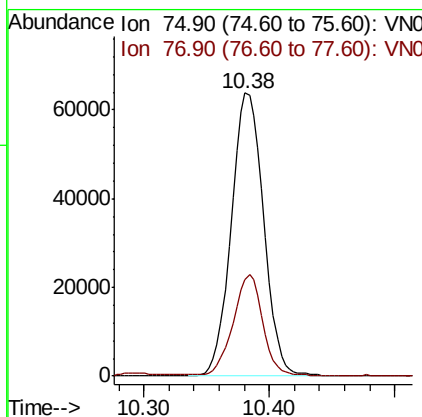
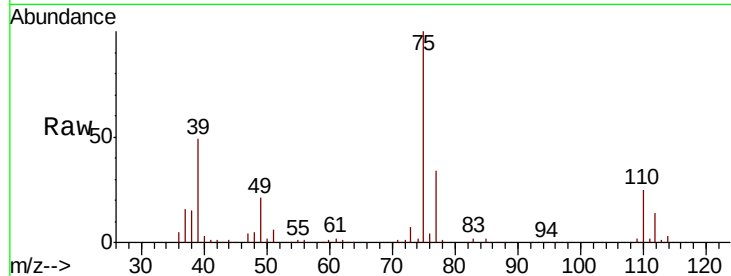
#53
t-1,3-Dichloropropene
Concen: 18.809 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. -0.00 min
Lab File: VN052117.D
Acq: 2 Nov 2018 9:53

Instrument :
MSVOA_N
ClientSampled :
VN1102WBS01

Tot Ion: 75 Resp: 114275
Ion Ratio Lower Upper
75 100
77 34.3 25.6 38.4

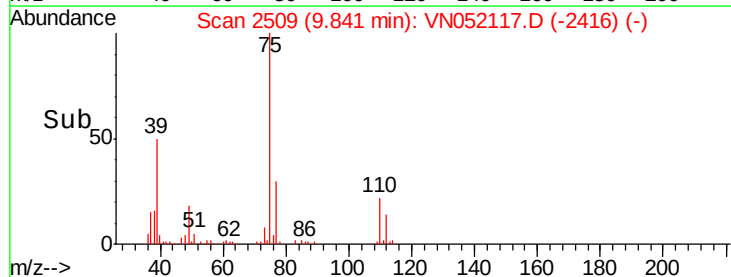
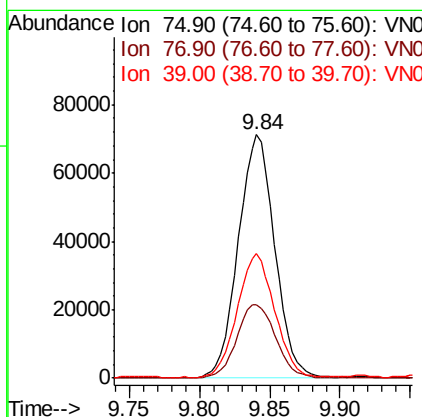
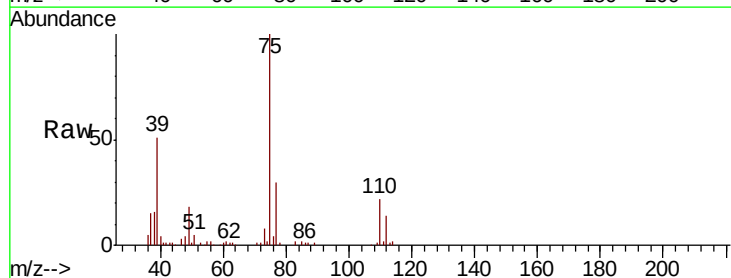
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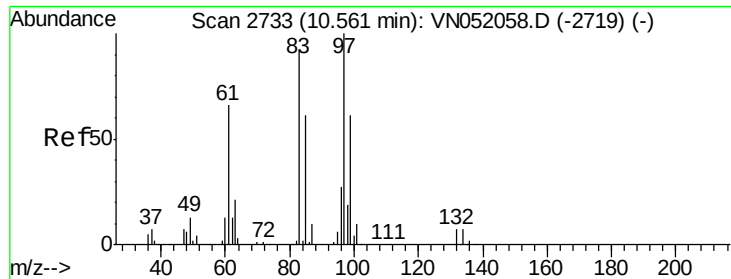
MMDadoda
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#54
cis-1,3-Dichloropropene
Concen: 19.163 ug/l
RT: 9.84 min Scan# 2509
Delta R.T. -0.00 min
Lab File: VN052117.D
Acq: 2 Nov 2018 9:53

Tgt Ion: 75 Resp: 129300
Ion Ratio Lower Upper
75 100
77 30.3 25.0 37.4
39 50.7 42.3 63.5





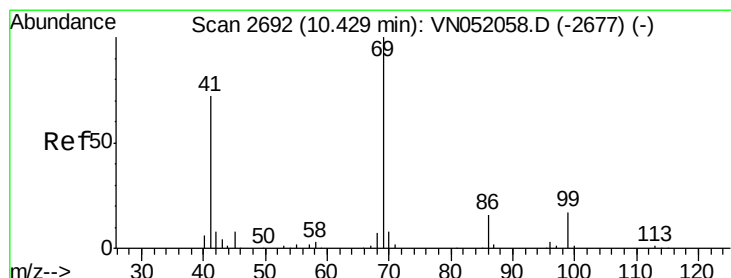
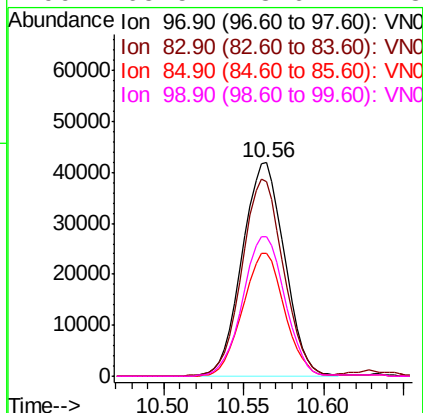
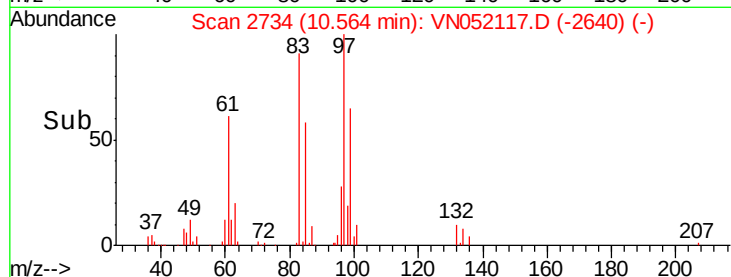
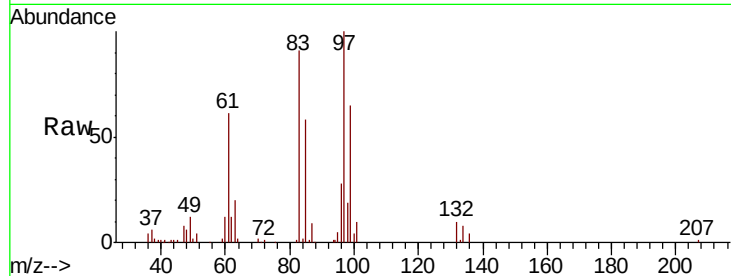
#55
 1,1,2-Trichloroethane
 Concen: 20.402 ug/l
 RT: 10.56 min Scan# 2734
 Delta R.T. 0.00 min
 Lab File: VN052117.D
 Acq: 2 Nov 2018 9:53

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1102WBS01

Tot Ion	Ratio	Lower	Upper
97	100		
83	90.7	73.8	110.8
85	57.8	48.4	72.6
99	65.5	48.6	72.8

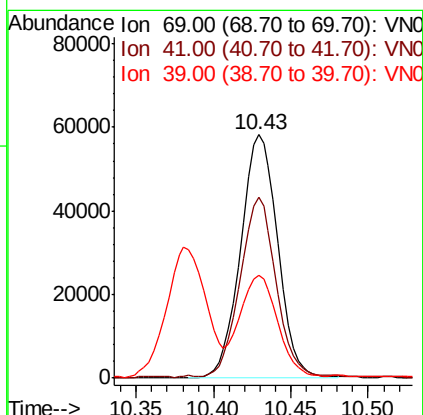
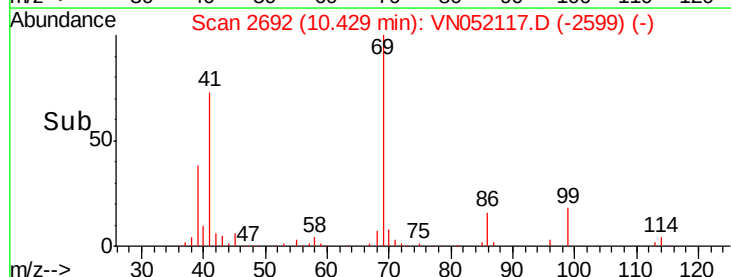
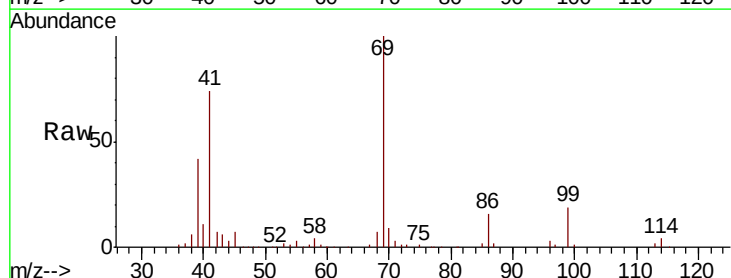
Manual Integrations
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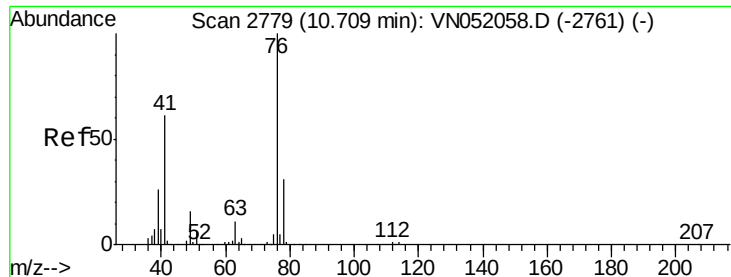
MMDadoda
 11/5/2018 11:52:40 AM



#56
 Ethyl methacrylate
 Concen: 18.267 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. -0.00 min
 Lab File: VN052117.D
 Acq: 2 Nov 2018 9:53

Tgt Ion	Ratio	Lower	Upper
69	100		
41	71.1	55.5	83.3
39	42.2	33.0	49.4





#57

1,3-Dichloropropane

Concen: 19.455 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. -0.00 min

Lab File: VN052117.D

Acq: 2 Nov 2018 9:53

Instrument :

MSVOA_N

ClientSampled :

VN1102WBS01

Tot Ion: 76 Resp: 133202

Ion Ratio Lower Upper

76 100

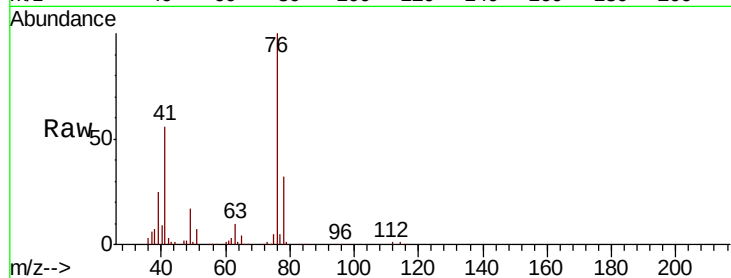
78 31.9 25.4 38.0

Manual Integrations

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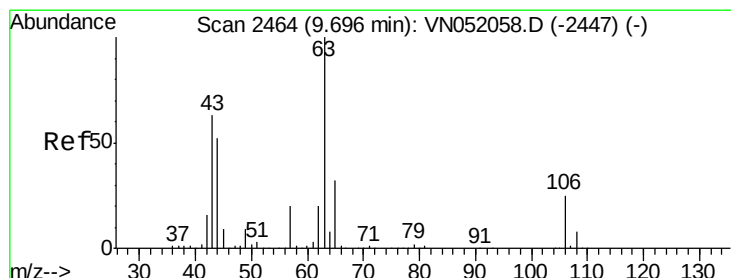
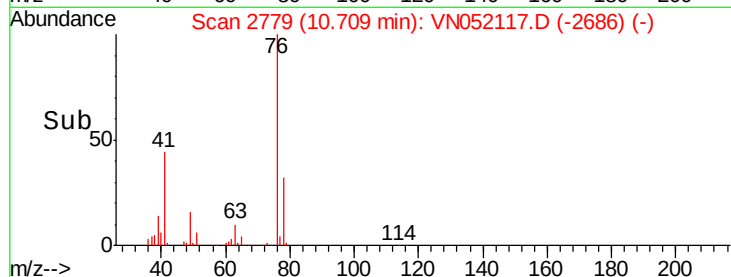
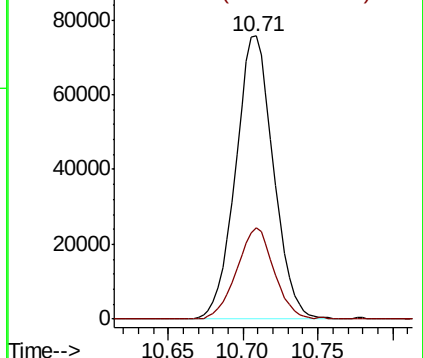
MMDadoda

11/5/2018 11:52:40 AM



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#58

2-Chloroethyl Vinyl ether

Concen: 97.409 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN052117.D

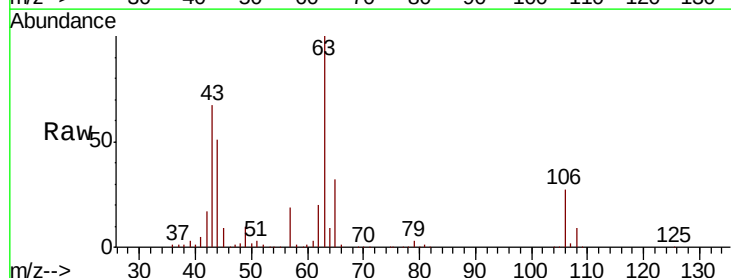
Acq: 2 Nov 2018 9:53

Tgt Ion: 63 Resp: 275785

Ion Ratio Lower Upper

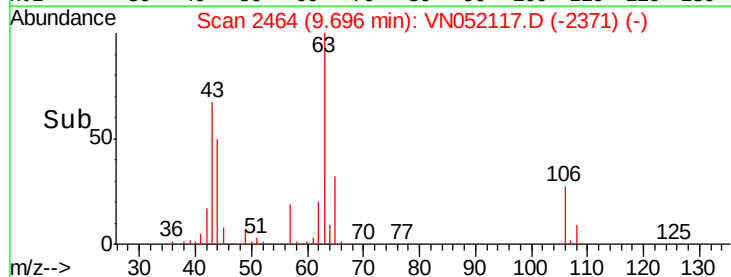
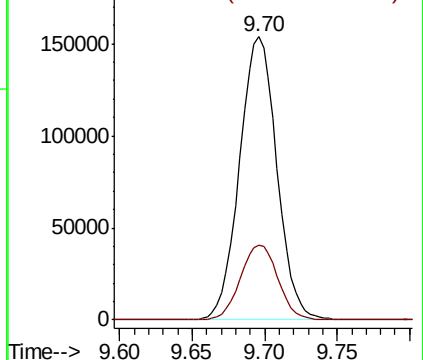
63 100

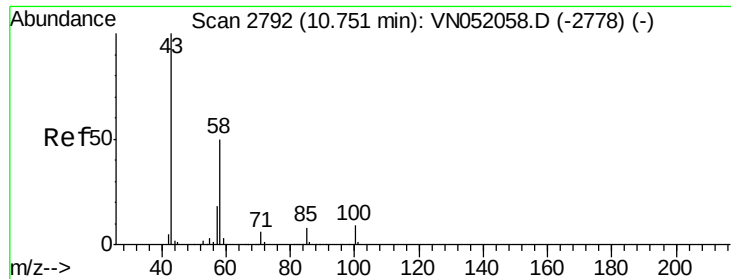
106 26.7 19.4 29.2



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V





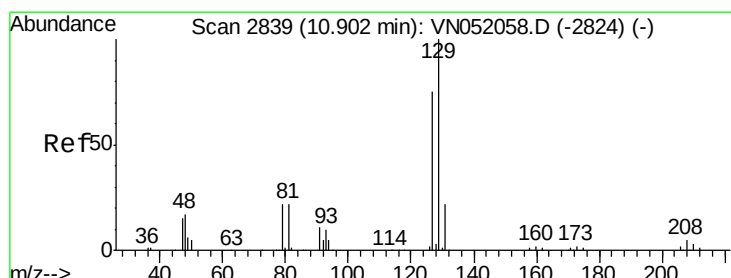
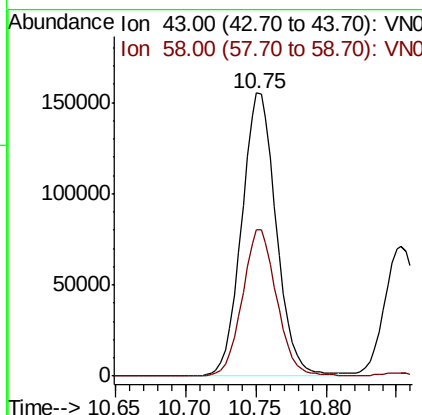
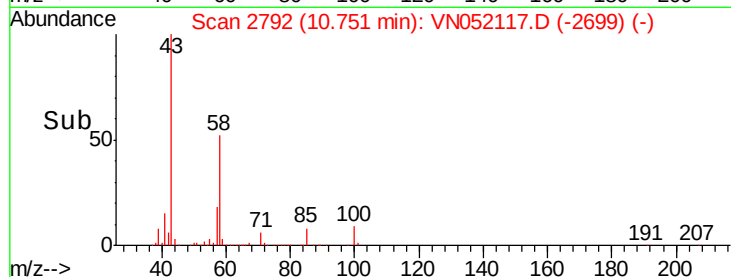
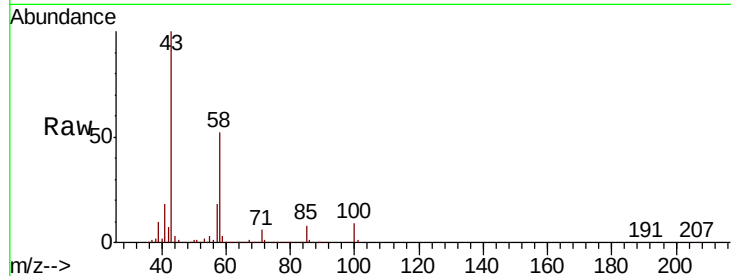
#59
2-Hexanone
Concen: 96.100 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. -0.00 min
Lab File: VN052117.D
Acq: 2 Nov 2018 9:53

Instrument :
MSVOA_N
ClientSampleId :
VN1102WBS01

Tot Ion: 43 Resp: 265137
Ion Ratio Lower Upper
43 100
58 51.9 25.2 75.6

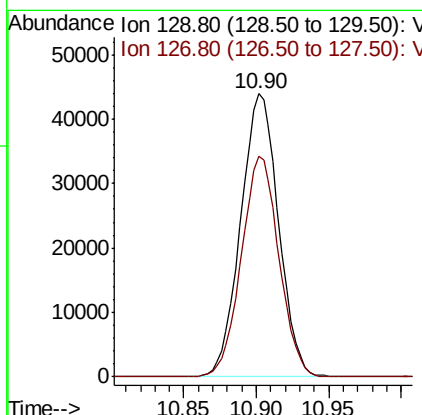
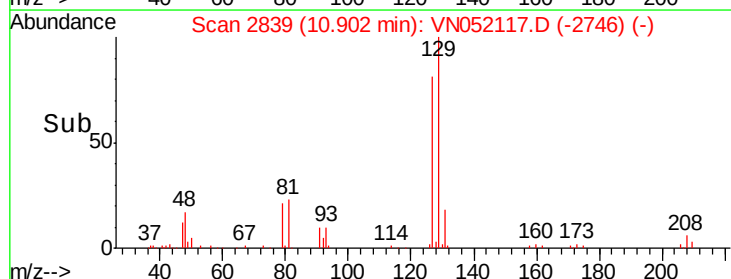
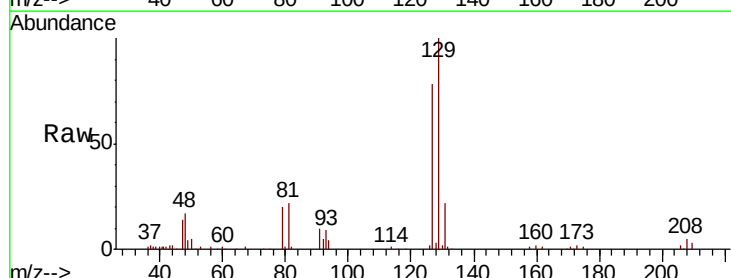
Manual Integrations
APPROVED

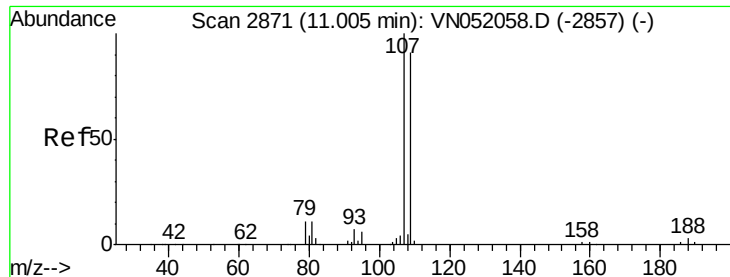
MMDadoda
11/5/2018 11:52:40 AM



#60
Dibromochloromethane
Concen: 21.752 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. -0.00 min
Lab File: VN052117.D
Acq: 2 Nov 2018 9:53

Tgt Ion: 129 Resp: 79683
Ion Ratio Lower Upper
129 100
127 77.4 38.5 115.5





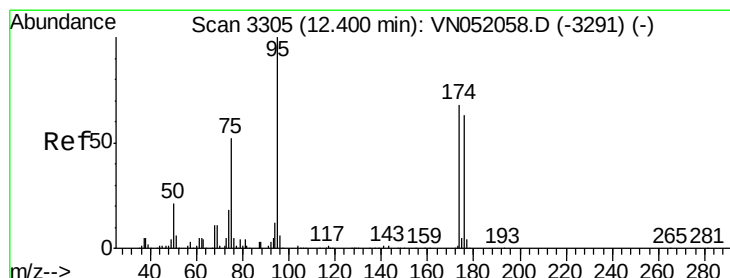
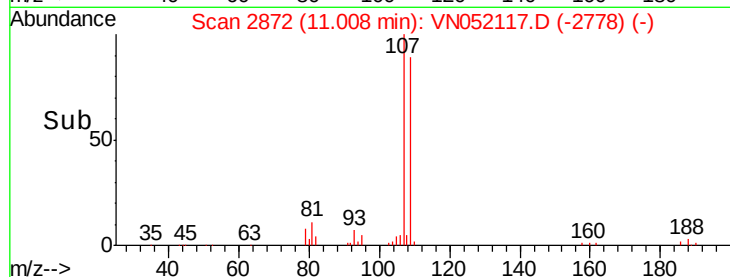
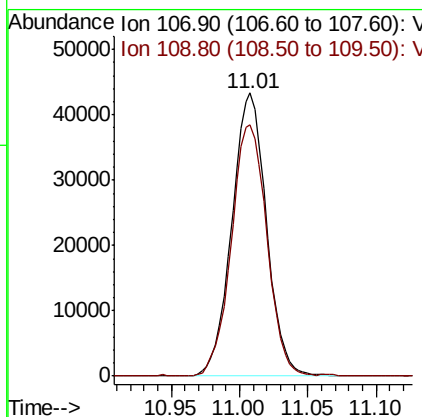
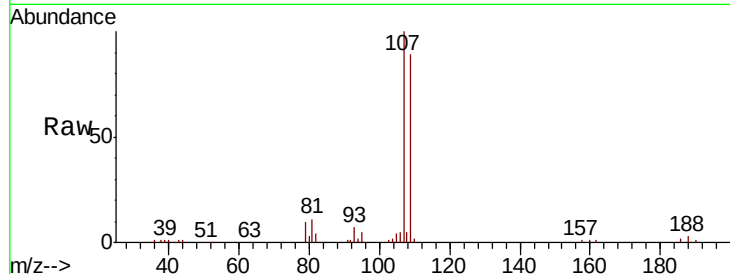
#61
 1,2-Dibromoethane
 Concen: 20.661 ug/l
 RT: 11.01 min Scan# 2872
 Delta R.T. 0.00 min
 Lab File: VN052117.D
 Acq: 2 Nov 2018 9:53

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1102WBS01

Tot Ion	Ratio	Lower	Upper
107	100		
109	91.2	75.1	112.7

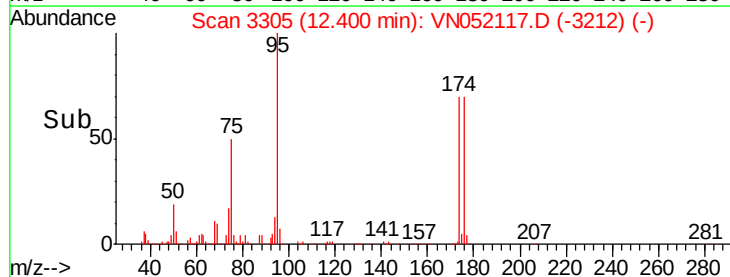
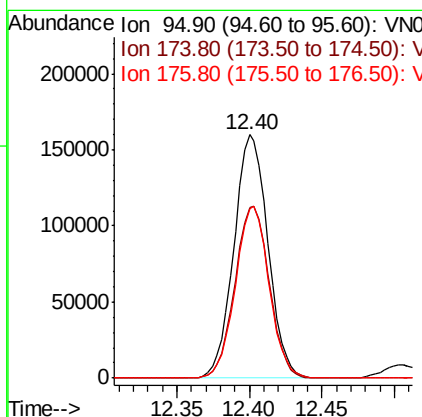
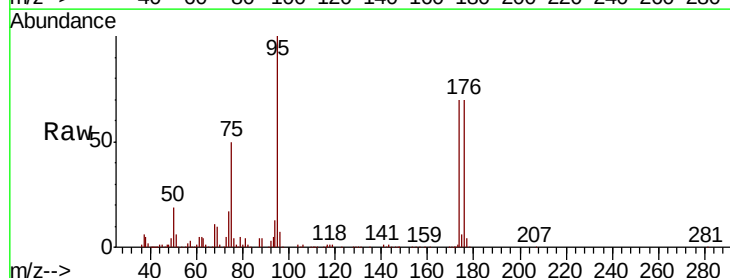
Manual Integrations
 APPROVED

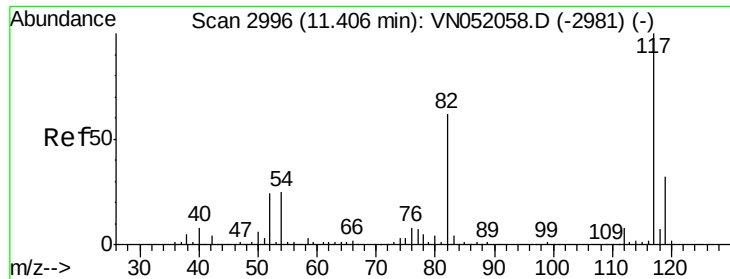
MMDadoda
 11/5/2018 11:52:40 AM



#62
 4-Bromofluorobenzene
 Concen: 20.661 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.00 min
 Lab File: VN052117.D
 Acq: 2 Nov 2018 9:53

Tgt Ion	Ratio	Lower	Upper
95	100		
174	71.6	0.0	131.8
176	69.9	0.0	126.0





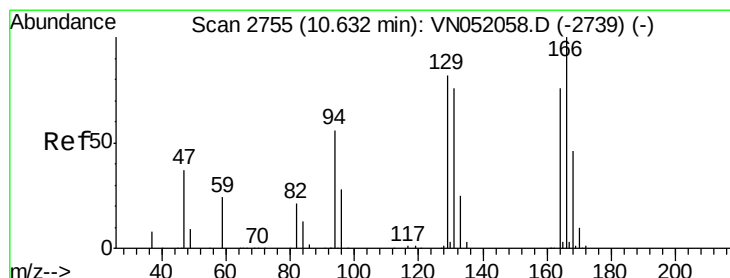
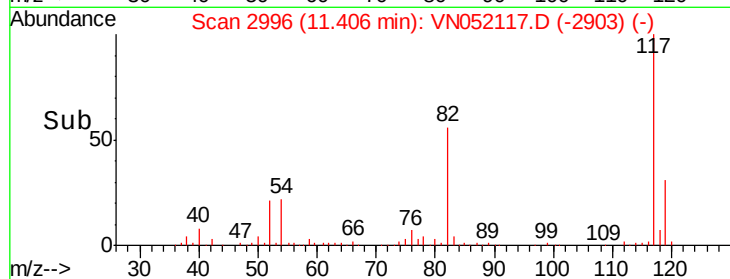
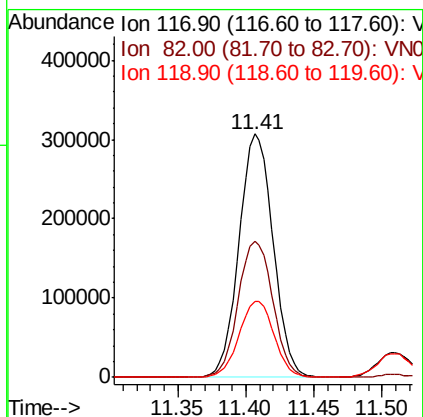
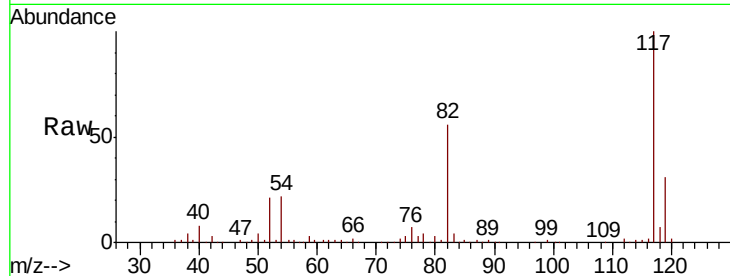
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN052117.D
Acq: 2 Nov 2018 9:53

Instrument :
MSVOA_N
ClientSampleId :
VN1102WBS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	55.7	49.9	74.9
119	31.3	25.7	38.5

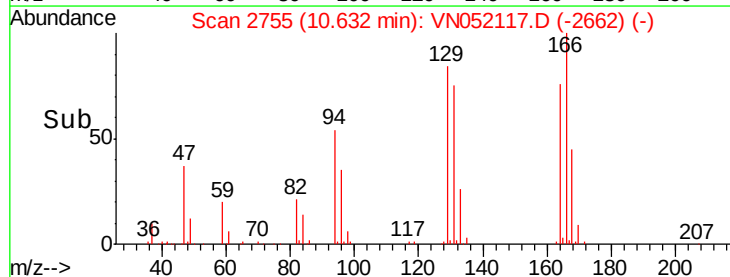
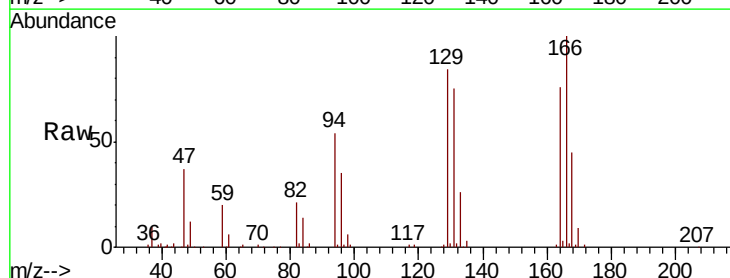
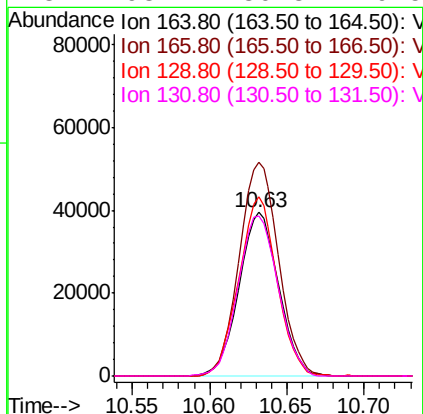
Manual Integrations
APPROVED

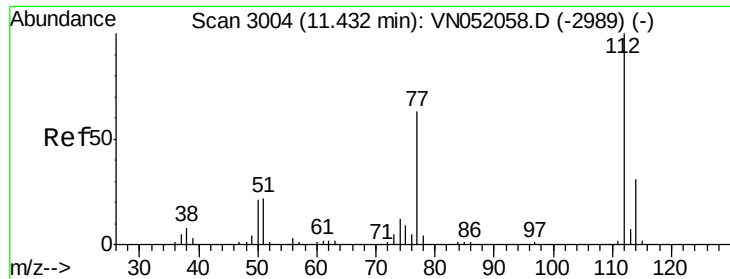
MMDadoda
11/5/2018 11:52:40 AM



#64
Tetrachloroethene
Concen: 21.751 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.00 min
Lab File: VN052117.D
Acq: 2 Nov 2018 9:53

Tgt Ion	Ratio	Lower	Upper
164	100		
166	130.8	105.4	158.0
129	109.6	86.1	129.1
131	98.2	80.3	120.5





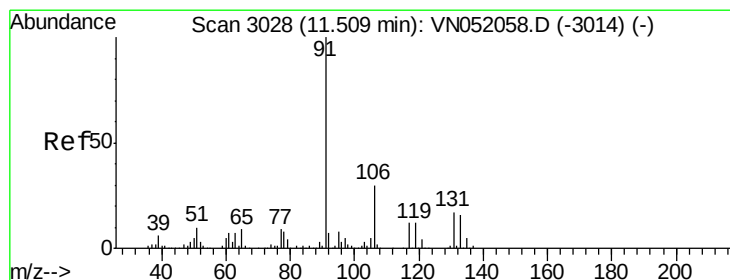
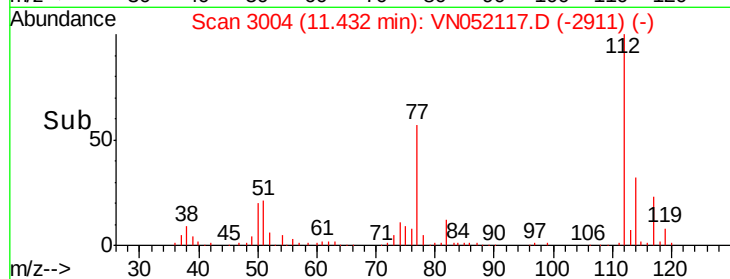
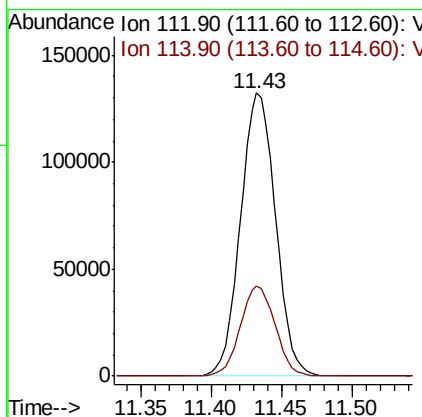
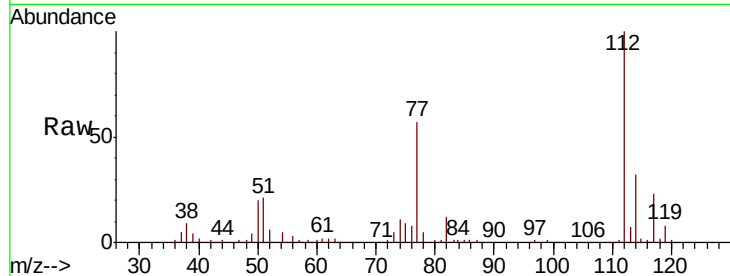
#65
Chlorobenzene
Concen: 20.507 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN052117.D
Acq: 2 Nov 2018 9:53

Instrument :
MSVOA_N
ClientSampled :
VN1102WBS01

Tot Ion:112 Resp: 230275
Ion Ratio Lower Upper
112 100
114 31.8 25.1 37.7

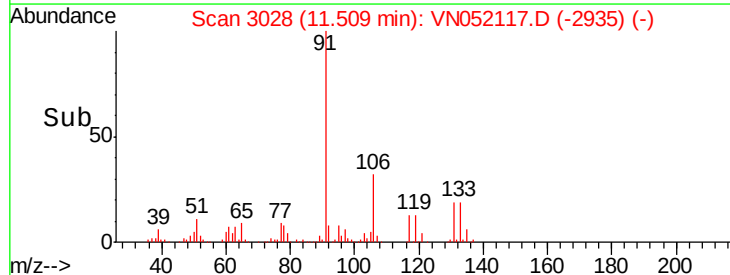
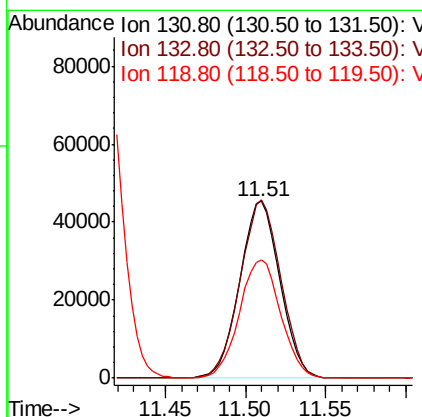
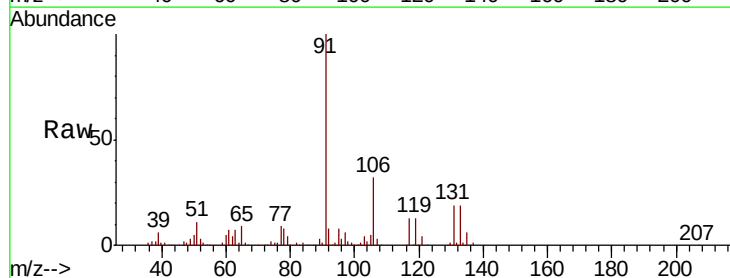
Manual Integrations
APPROVED

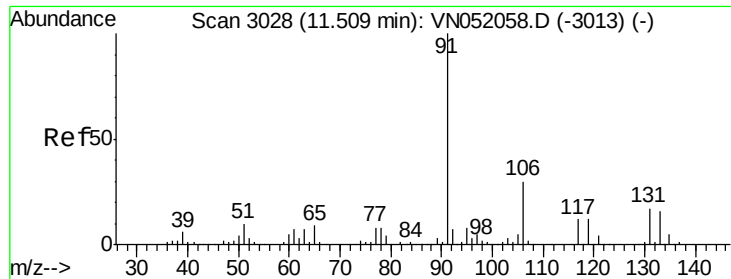
MMDadoda
11/5/2018 11:52:40 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 22.040 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN052117.D
Acq: 2 Nov 2018 9:53

Tgt Ion:131 Resp: 77709
Ion Ratio Lower Upper
131 100
133 102.0 47.6 142.9
119 68.7 34.4 103.2





#67

Ethyl Benzene

Concen: 20.202 ug/l

RT: 11.51 min Scan# 3029

Delta R.T. 0.00 min

Lab File: VN052117.D

Acq: 2 Nov 2018 9:53

Instrument :

MSVOA_N

ClientSampled :

VN1102WBS01

Tot Ion: 91 Resp: 404536

Ion Ratio Lower Upper

91 100

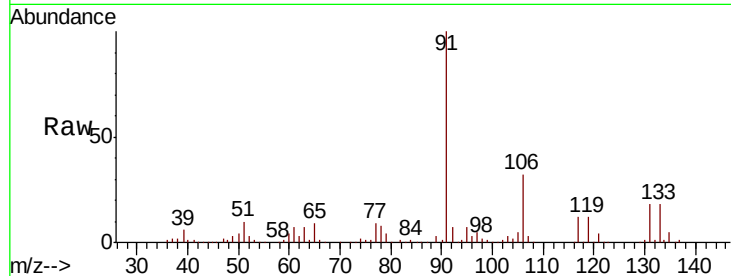
106 31.6 24.1 36.1

Manual Integrations

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MMDadoda

11/5/2018 11:52:40 AM



Abundance Ion 91.00 (90.70 to 91.70): VN052058.D (-3013) (-)

Ion 106.00 (105.70 to 106.70): VN052058.D (-3013) (-)

300000

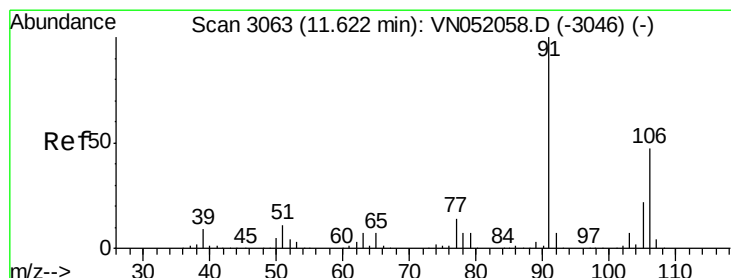
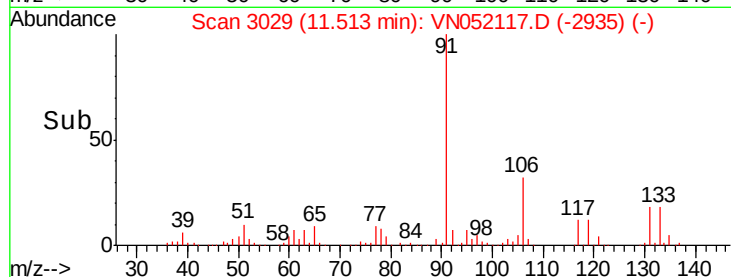
200000

100000

0

11.45 11.50 11.55 11.60

Time-->



#68

m/p-Xylenes

Concen: 43.531 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. 0.00 min

Lab File: VN052117.D

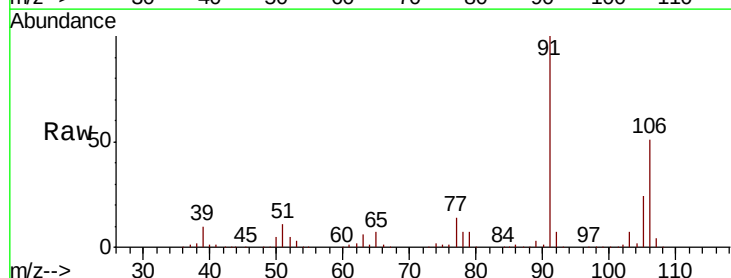
Acq: 2 Nov 2018 9:53

Tgt Ion: 106 Resp: 312008

Ion Ratio Lower Upper

106 100

91 202.3 168.7 253.1



Abundance Ion 106.00 (105.70 to 106.70): VN052058.D (-3046) (-)

Ion 91.00 (90.70 to 91.70): VN052058.D (-3046) (-)

300000

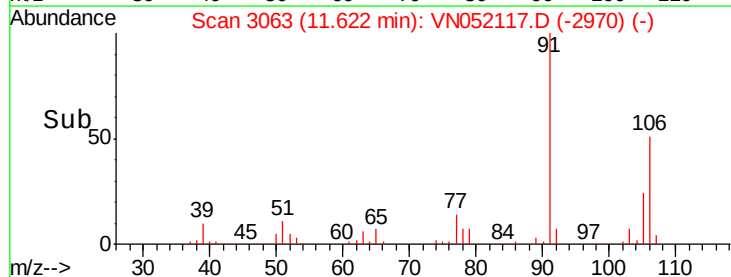
200000

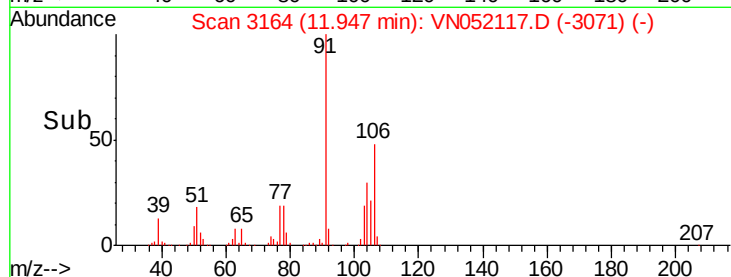
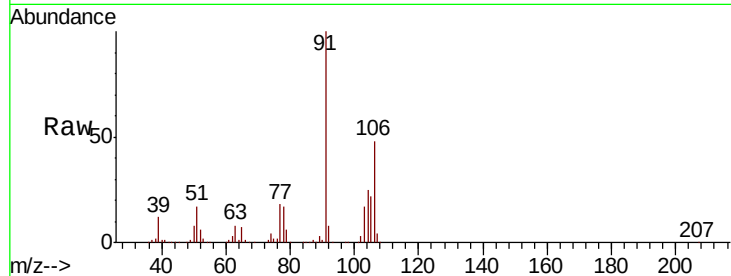
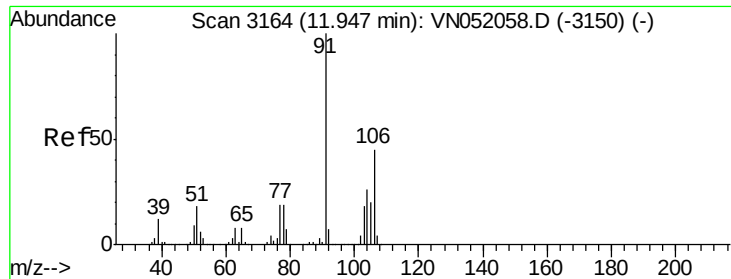
100000

0

11.60 11.62 11.64 11.66 11.68 11.70

Time-->





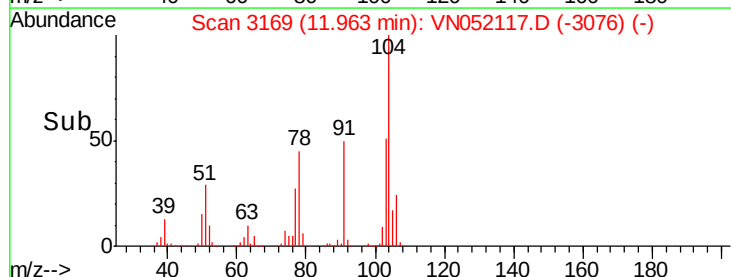
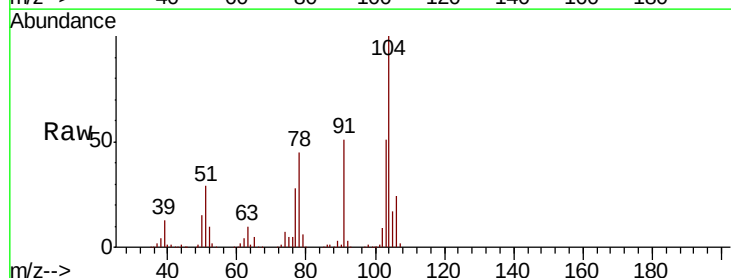
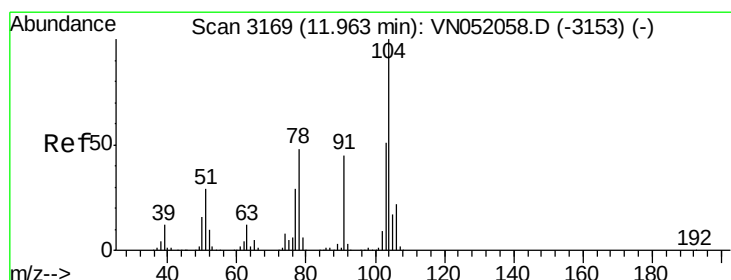
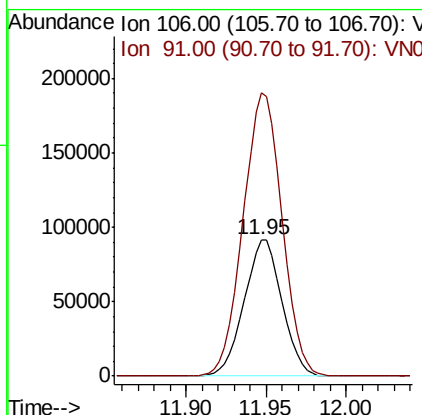
#69
o-Xylene
Concen: 20.904 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN052117.D
Acq: 2 Nov 2018 9:53

Instrument :
MSVOA_N
ClientSampled :
VN1102WBS01

Tot Ion	Ratio	Lower	Upper
106	100		
91	213.8	109.6	328.6

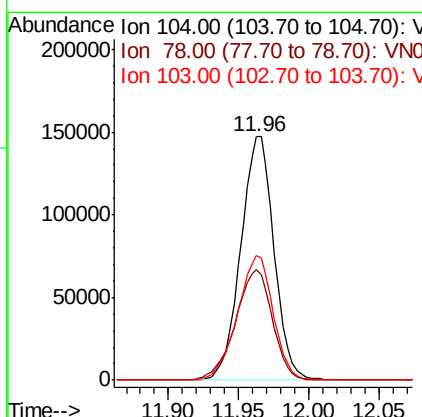
Manual Integrations
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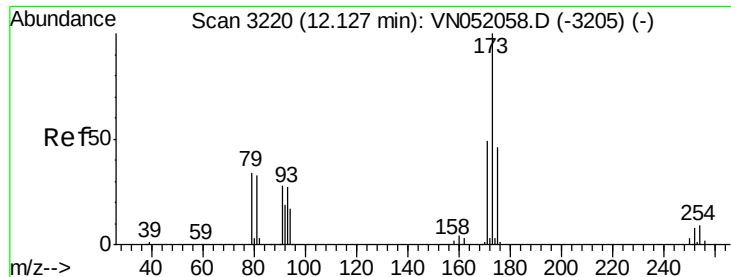
MMDadoda
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#70
Styrene
Concen: 21.190 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN052117.D
Acq: 2 Nov 2018 9:53

Tgt Ion	Ratio	Lower	Upper
104	100		
78	50.1	43.0	64.6
103	55.0	45.1	67.7





#71

Bromoform

Concen: 20.344 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN052117.D

Acq: 2 Nov 2018 9:53

Instrument :

MSVOA_N

ClientSampleId :

VN1102WBS01

Tot Ion:173 Resp: 43036

Ion Ratio Lower Upper

173 100

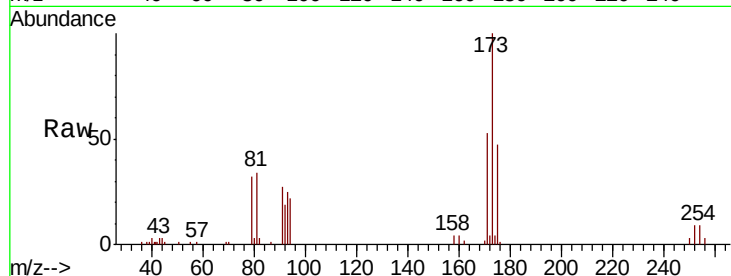
175 49.1 23.9 71.7

254 0.0 0.0 0.0

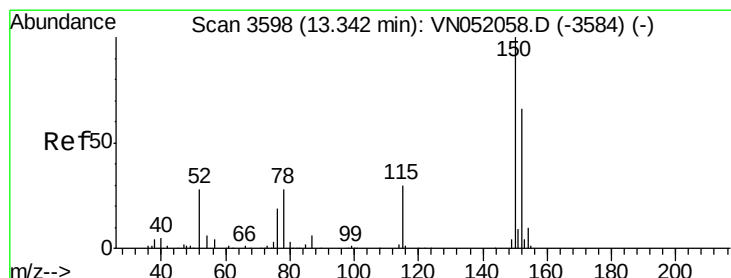
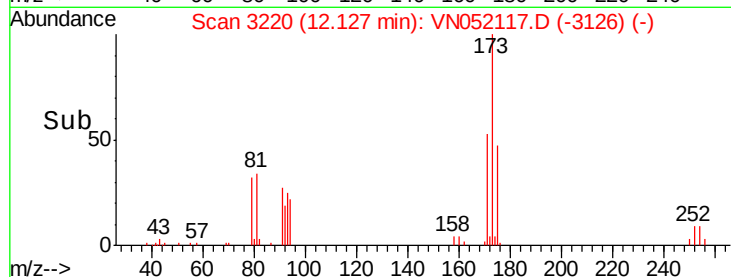
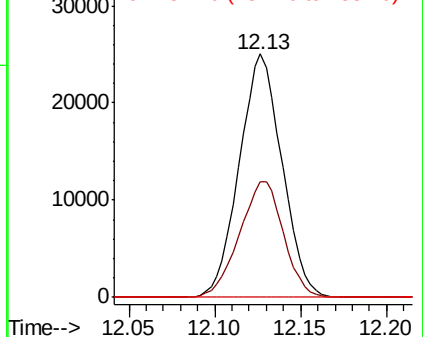
Manual Integrations
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Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN052117.D

Acq: 2 Nov 2018 9:53

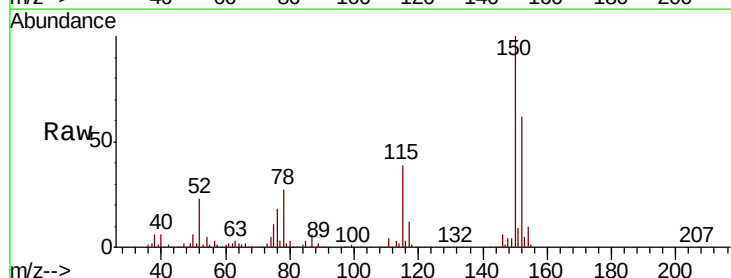
Tgt Ion:152 Resp: 233648

Ion Ratio Lower Upper

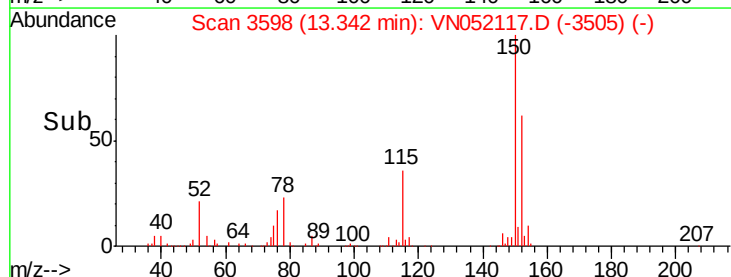
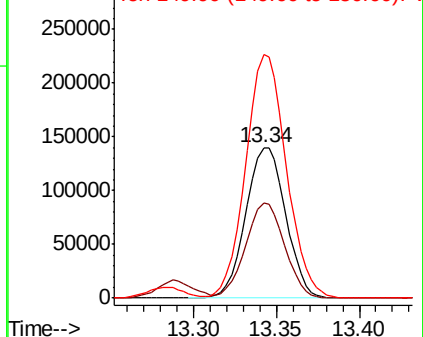
152 100

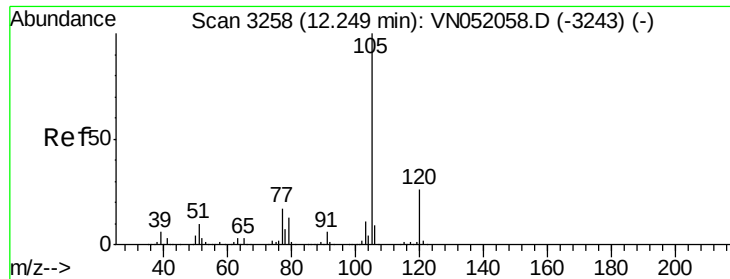
115 61.8 31.6 95.0

150 165.3 0.0 345.0



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





#73

Isopropylbenzene

Concen: 19.693 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN052117.D

Acq: 2 Nov 2018 9:53

Instrument :

MSVOA_N

ClientSampleId :

VN1102WBS01

Tot Ion: 105 Resp: 393465

Ion Ratio Lower Upper

105 100

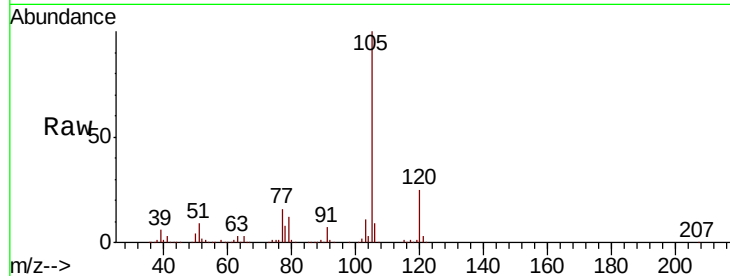
120 26.1 12.8 38.4

Manual Integrations

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

250000

200000

150000

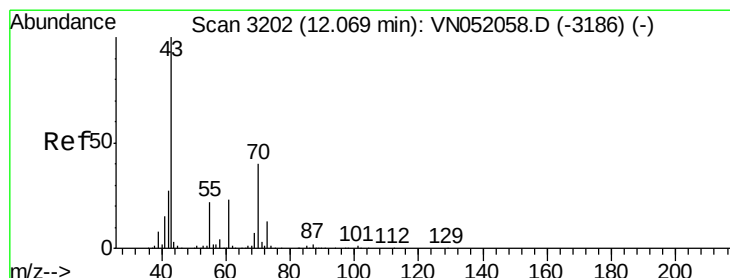
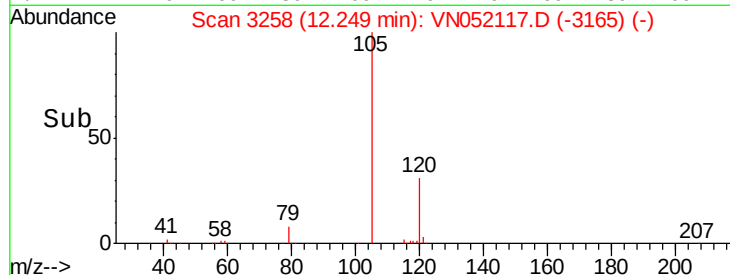
100000

50000

0

12.20 12.25 12.30

Time-->



#74

N-ethyl acetate

Concen: 17.154 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN052117.D

Acq: 2 Nov 2018 9:53

Tgt Ion: 43 Resp: 119614

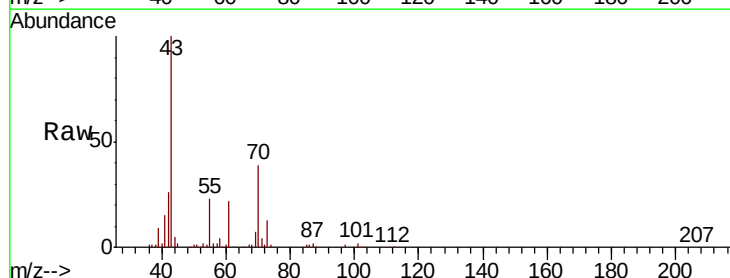
Ion Ratio Lower Upper

43 100

70 38.8 31.9 47.9

55 24.4 18.4 27.6

61 23.0 18.2 27.4



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

120000

100000

80000

60000

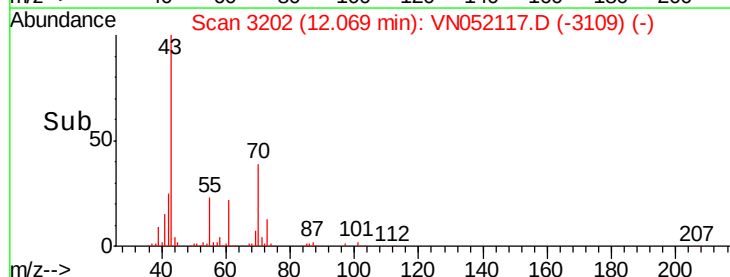
40000

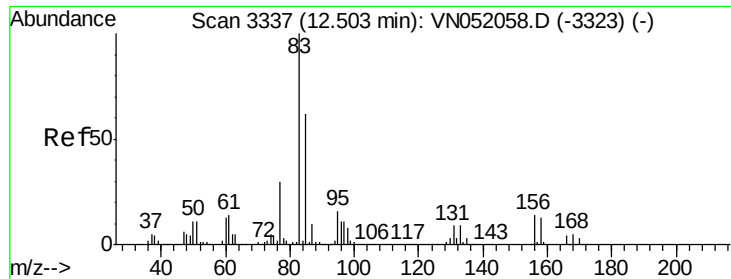
20000

0

12.00 12.05 12.10 12.15

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 20.362 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. -0.00 min

Lab File: VN052117.D

Acq: 2 Nov 2018 9:53

Instrument :

MSVOA_N

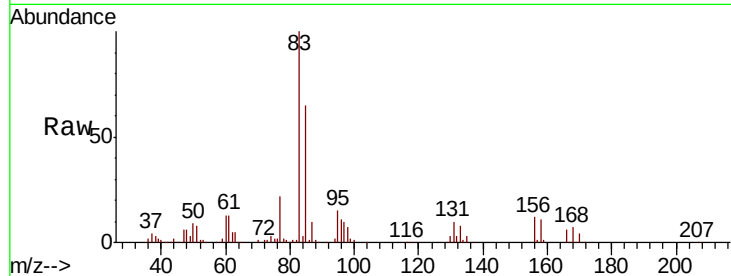
ClientSampleId :

VN1102WBS01

Tot Ion:	83	Resp:	97556
Ion Ratio		Lower	Upper
83	100		
131	10.1	4.5	13.4
85	64.5	31.3	93.9

Manual Integrations
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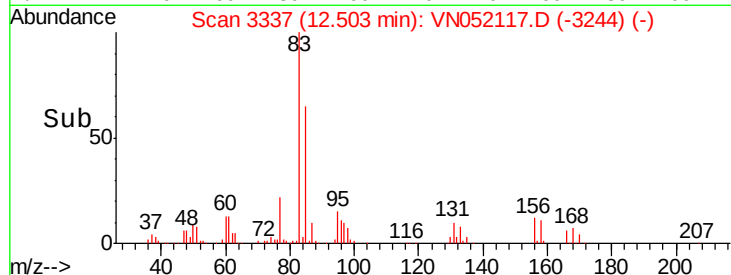


Abundance Ion 82.90 (82.60 to 83.60): VN052117.D (-3244) (-)

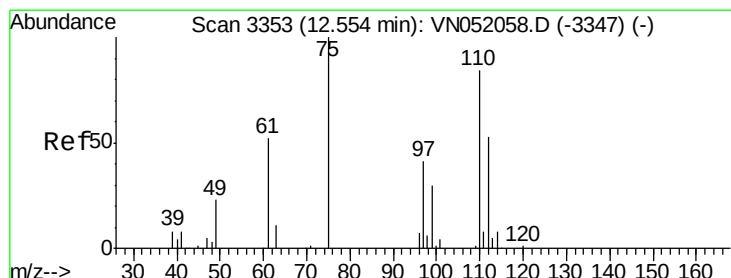
Ion 130.80 (130.50 to 131.50): VN052117.D (-3244) (-)

Ion 84.90 (84.60 to 85.60): VN052117.D (-3244) (-)

Time-->



Time-->



#76

1,2,3-Trichloropropane

Concen: 17.880 ug/l m

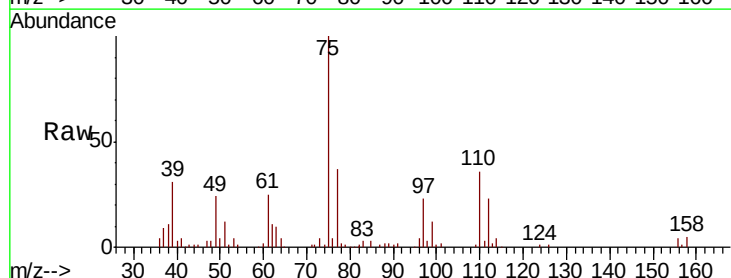
RT: 12.55 min Scan# 3353

Delta R.T. -0.00 min

Lab File: VN052117.D

Acq: 2 Nov 2018 9:53

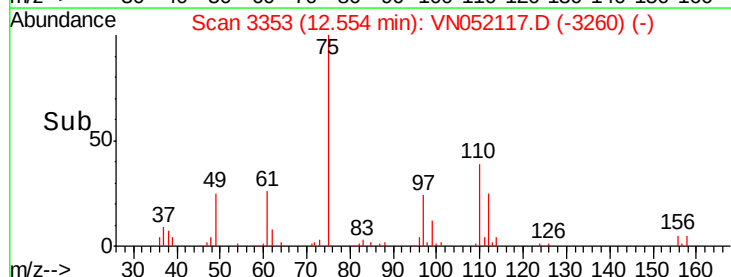
Tgt Ion:	75	Resp:	76473
Ion Ratio		Lower	Upper
75	100		
77	0.0	0.0	0.0



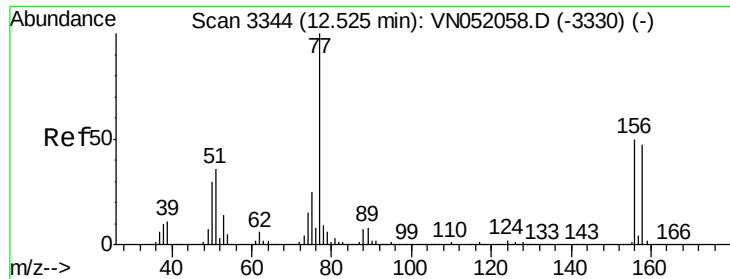
Abundance Ion 74.90 (74.60 to 75.60): VN052117.D (-3260) (-)

Ion 77.00 (76.70 to 77.70): VN052117.D (-3260) (-)

Time-->



Time-->



#77

Bromobenzene

Concen: 21.380 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN052117.D

Acq: 2 Nov 2018 9:53

Instrument :

MSVOA_N

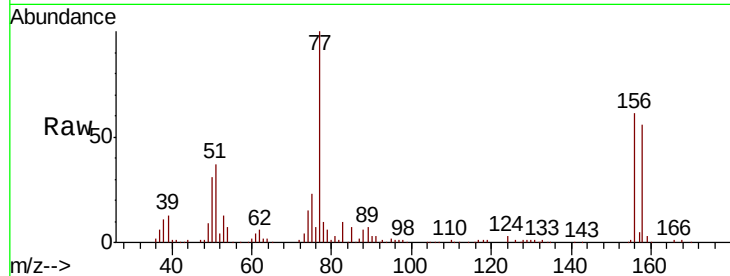
ClientSampleId :

VN1102WBS01

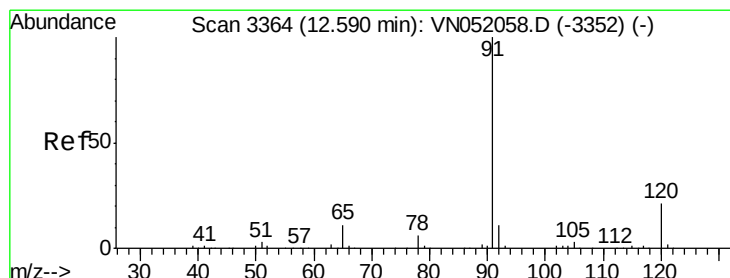
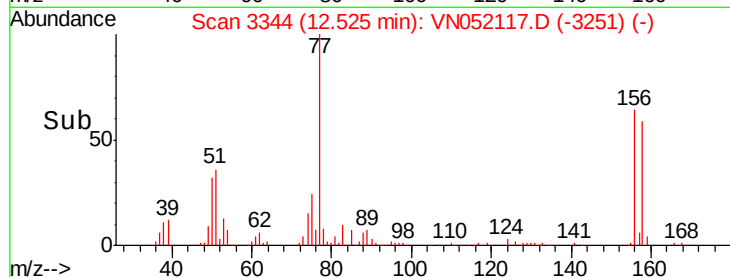
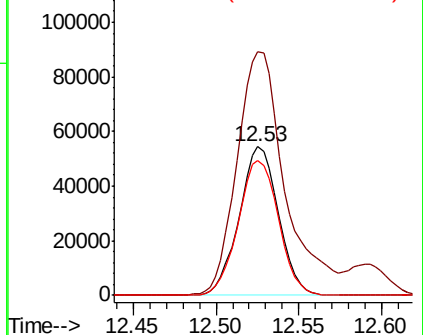
Tot Ion:	156	Resp:	89378
Ion	Ratio	Lower	Upper
156	100		
77	201.8	119.6	358.6
158	93.9	47.8	143.4

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



#78

n-propylbenzene

Concen: 19.418 ug/l

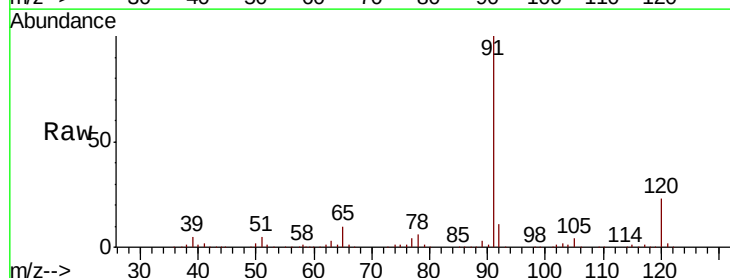
RT: 12.59 min Scan# 3364

Delta R.T. -0.00 min

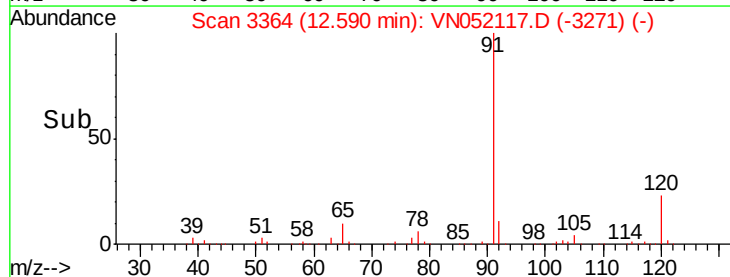
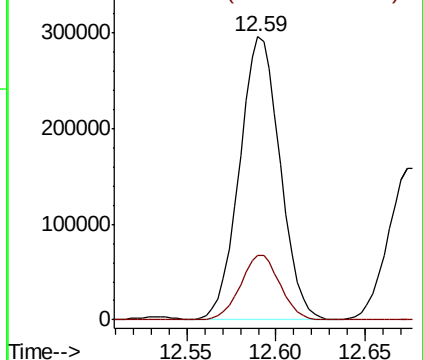
Lab File: VN052117.D

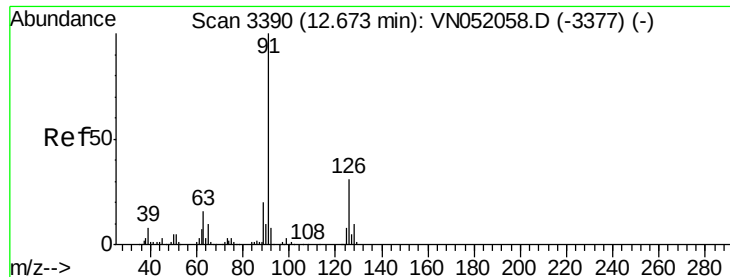
Acq: 2 Nov 2018 9:53

Tgt Ion:	91	Resp:	470121
Ion	Ratio	Lower	Upper
91	100		
120	22.4	10.8	32.4



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





#79

2-Chlorotoluene

Concen: 18.814 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN052117.D

Acq: 2 Nov 2018 9:53

Instrument :

MSVOA_N

ClientSampleId :

VN1102WBS01

Tot Ion: 91 Resp: 265535

Ion Ratio Lower Upper

91 100

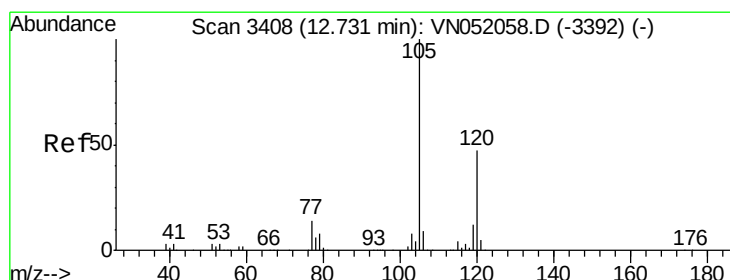
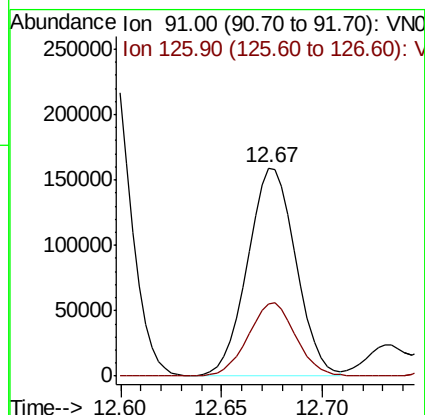
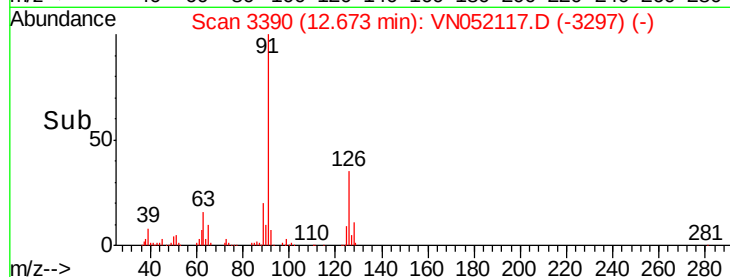
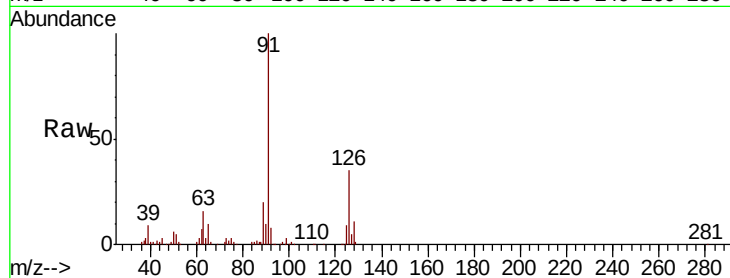
126 34.8 15.9 47.6

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#80

1,3,5-Trimethylbenzene

Concen: 19.952 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN052117.D

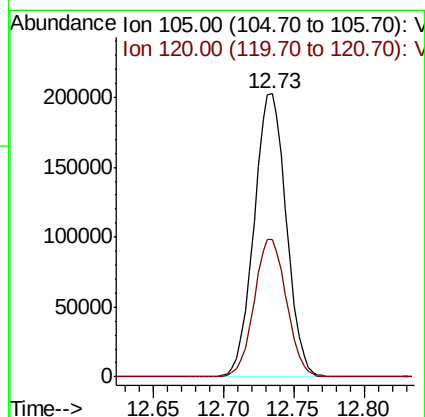
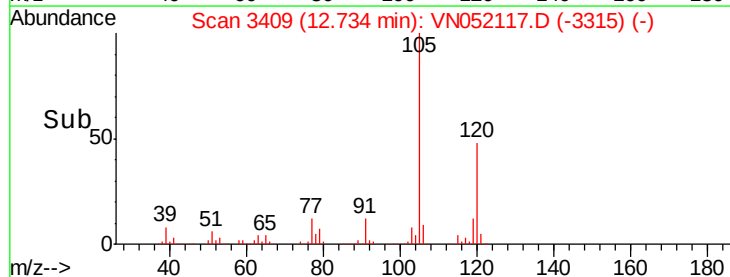
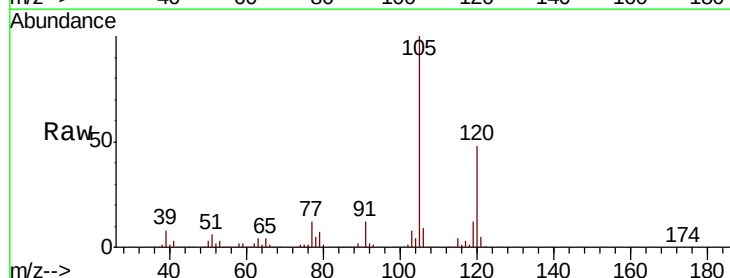
Acq: 2 Nov 2018 9:53

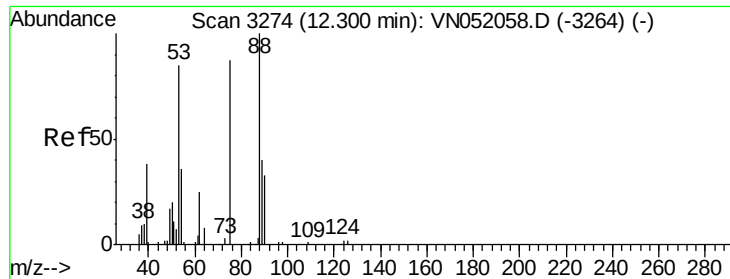
Tgt Ion: 105 Resp: 324396

Ion Ratio Lower Upper

105 100

120 48.5 23.4 70.0





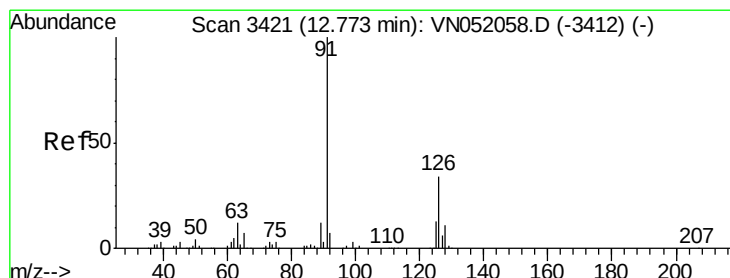
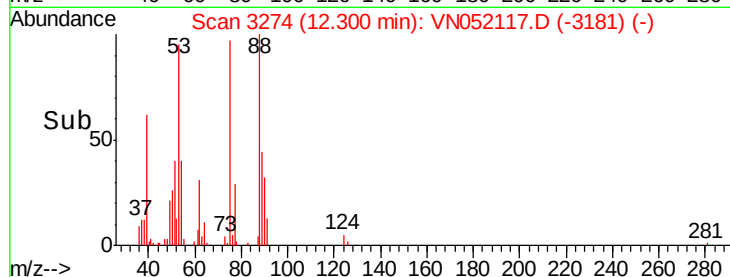
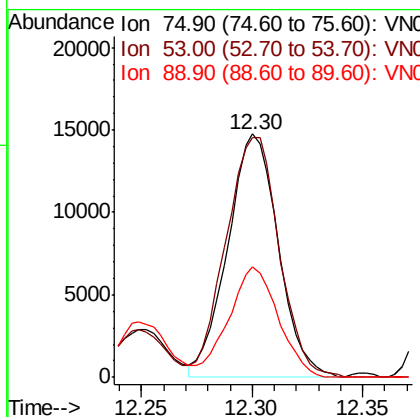
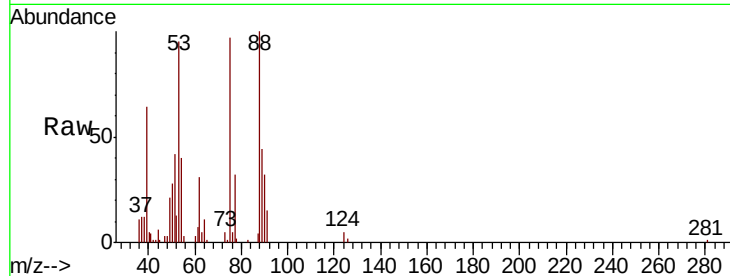
#81
trans-1,4-Dichloro-2-butene
Concen: 18.288 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. -0.00 min
Lab File: VN052117.D
Acq: 2 Nov 2018 9:53

Instrument :
MSVOA_N
ClientSampleId :
VN1102WBS01

Tot Ion	Ratio	Lower	Upper
75	100		
53	103.7	81.8	122.6
89	44.2	36.6	54.8

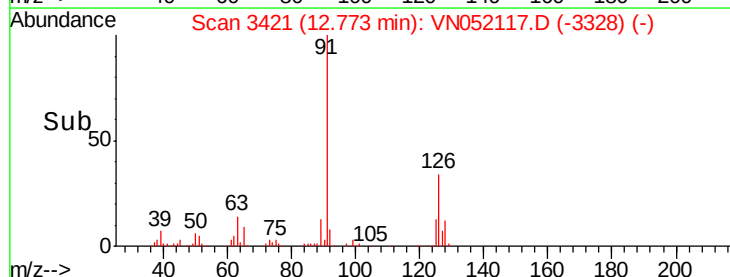
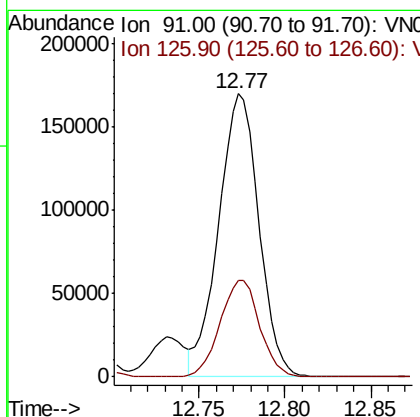
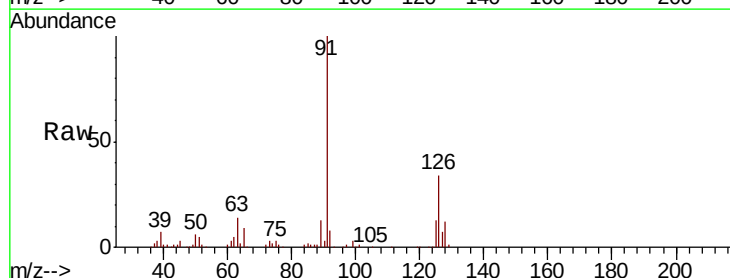
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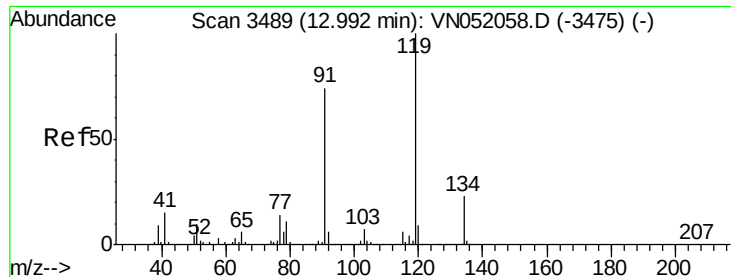
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#82
4-Chlorotoluene
Concen: 19.322 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. -0.00 min
Lab File: VN052117.D
Acq: 2 Nov 2018 9:53

Tgt Ion	Ratio	Lower	Upper
91	100		
126	33.5	15.7	47.1





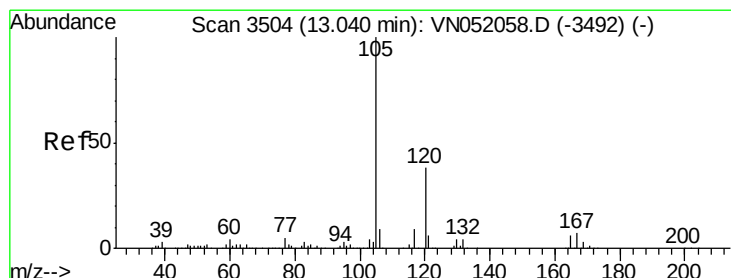
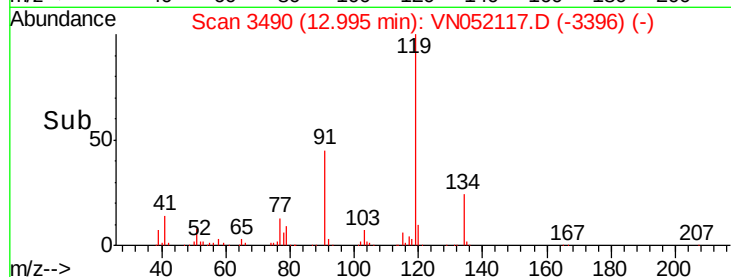
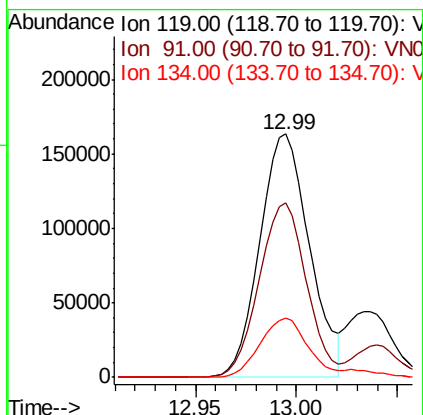
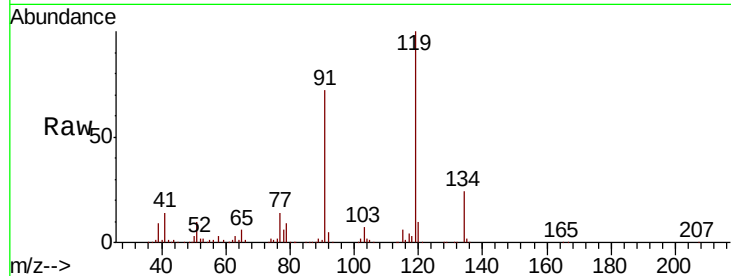
#83
 tert-Butylbenzene
 Concen: 20.546 ug/l
 RT: 12.99 min Scan# 3490
 Delta R.T. 0.00 min
 Lab File: VN052117.D
 Acq: 2 Nov 2018 9:53

Instrument :
 MSVOA_N
 ClientSampled :
 VN1102WBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	280626		
91	68.2		36.6	109.9
134	23.3		12.5	37.5

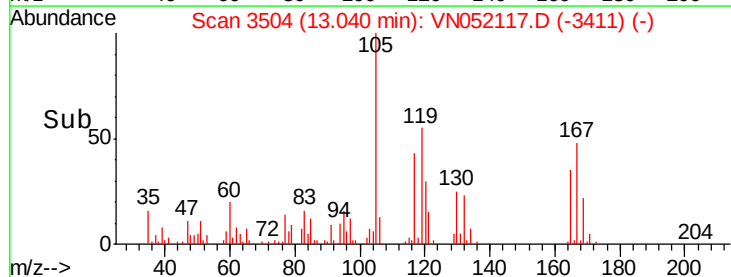
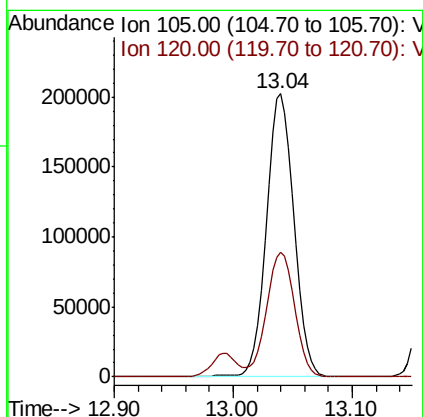
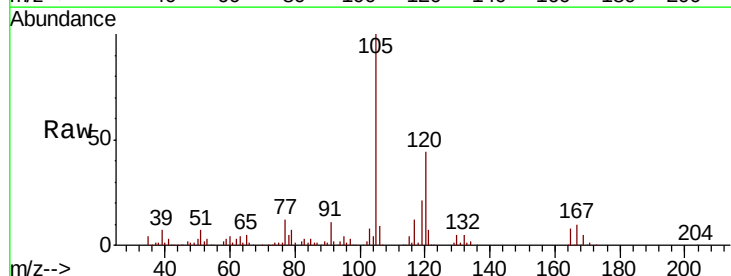
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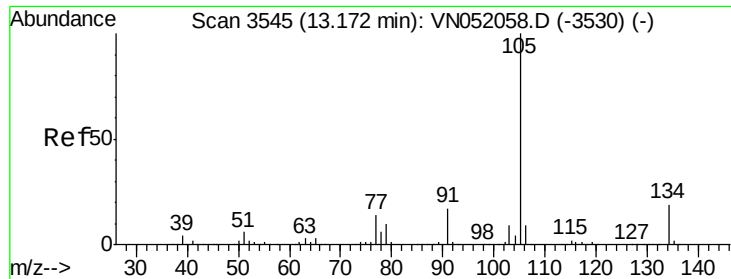
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#84
 1,2,4-Trimethylbenzene
 Concen: 20.028 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.00 min
 Lab File: VN052117.D
 Acq: 2 Nov 2018 9:53

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	324125		
120	44.8		21.9	65.5





#85

sec-Butylbenzene

Concen: 19.838 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. -0.00 min

Lab File: VN052117.D

Acq: 2 Nov 2018 9:53

Instrument :

MSVOA_N

ClientSampled :

VN1102WBS01

Tot Ion:105 Resp: 387062

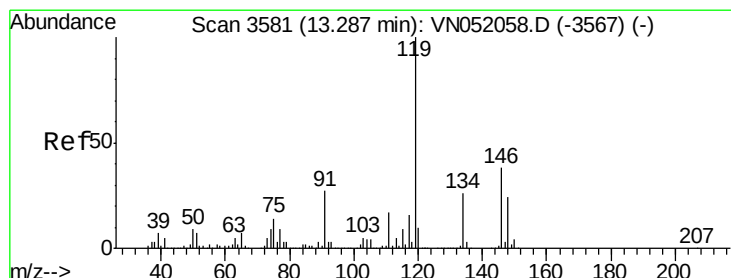
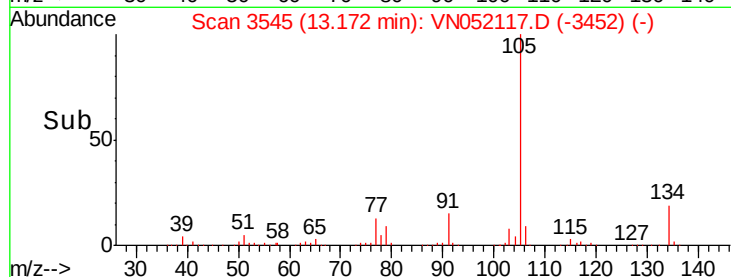
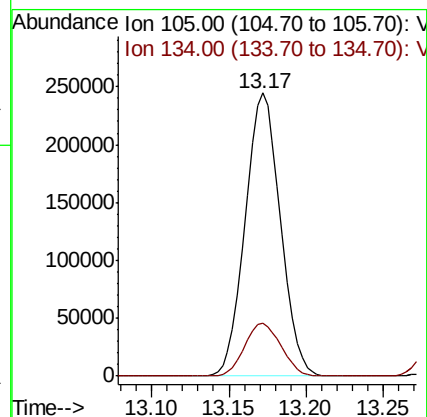
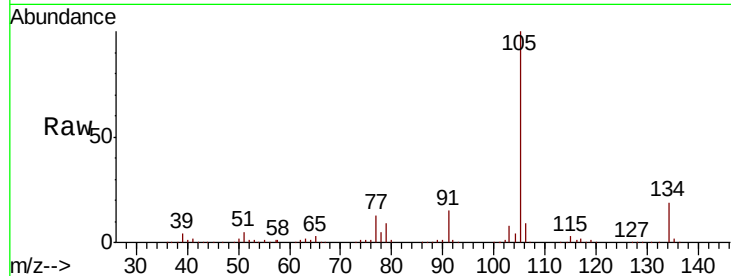
Ion Ratio Lower Upper

105 100

134 19.3 9.1 27.3

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#86

p-Isopropyltoluene

Concen: 20.627 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN052117.D

Acq: 2 Nov 2018 9:53

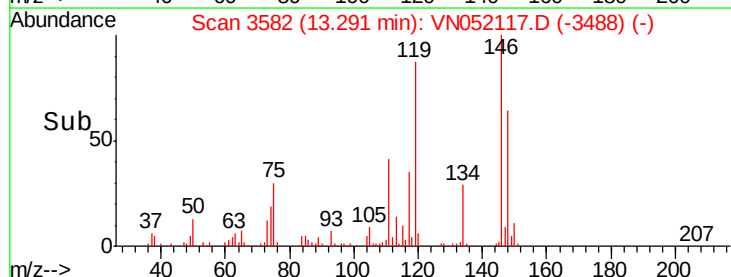
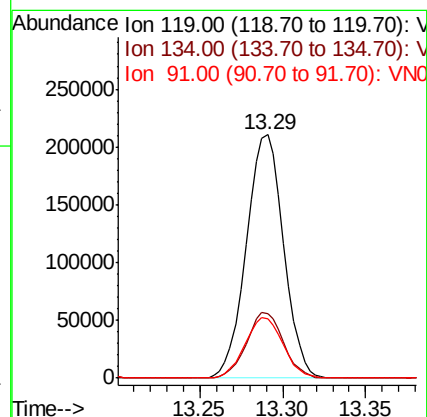
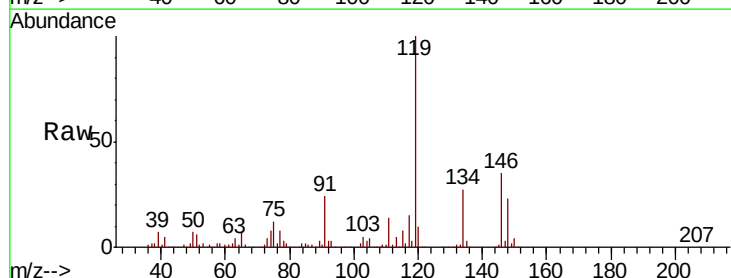
Tgt Ion:119 Resp: 327769

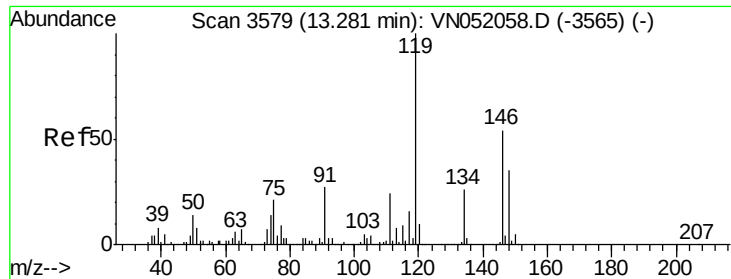
Ion Ratio Lower Upper

119 100

134 26.7 12.8 38.3

91 25.6 13.4 40.2





#87

1,3-Dichlorobenzene

Concen: 21.182 ug/l

RT: 13.28 min Scan# 3579

Delta R.T. 0.00 min

Lab File: VN052117.D

Acq: 2 Nov 2018 9:53

Instrument :

MSVOA_N

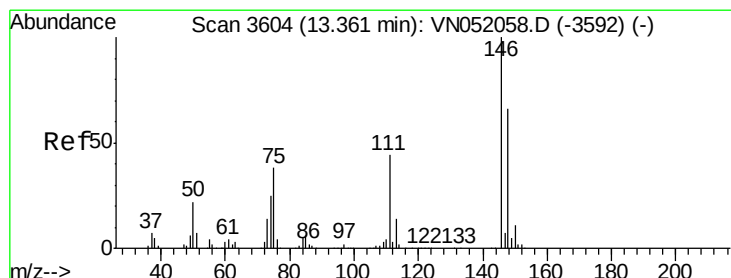
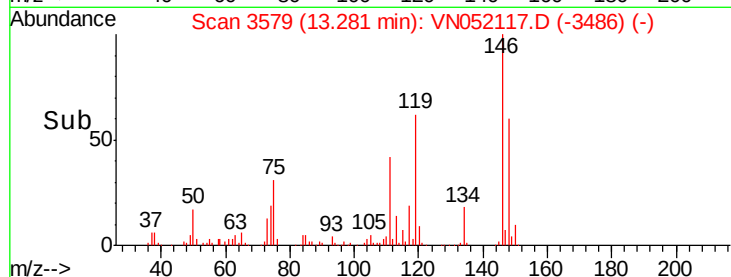
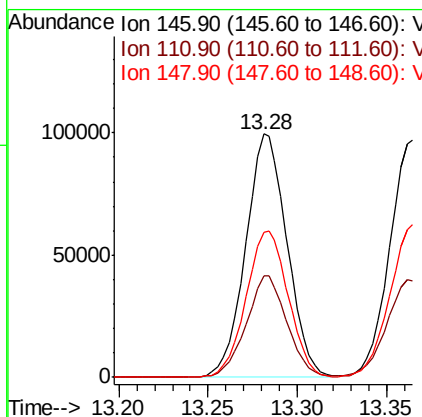
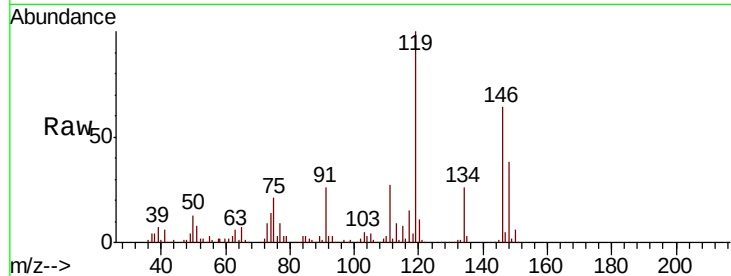
ClientSampleId :

VN1102WBS01

Tot Ion:	146	Resp:	161492
Ion Ratio	Lower	Upper	
146	100		
111	41.2	22.9	68.8
148	61.3	31.8	95.4

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#88

1,4-Dichlorobenzene

Concen: 20.603 ug/l

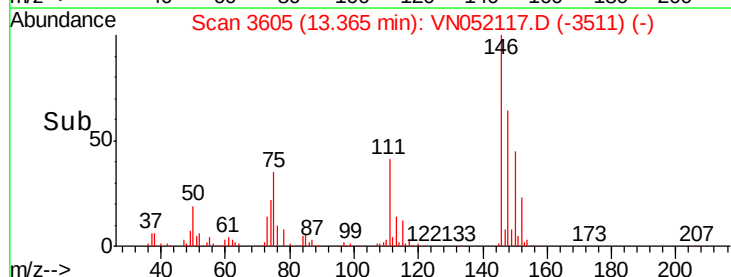
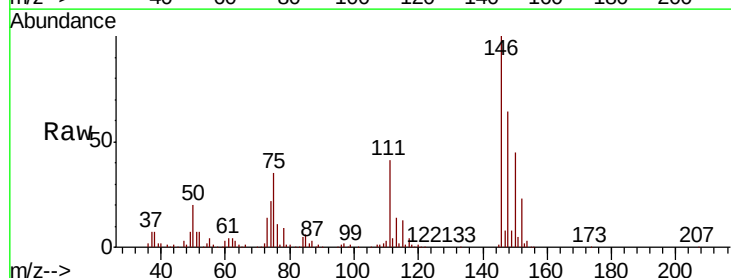
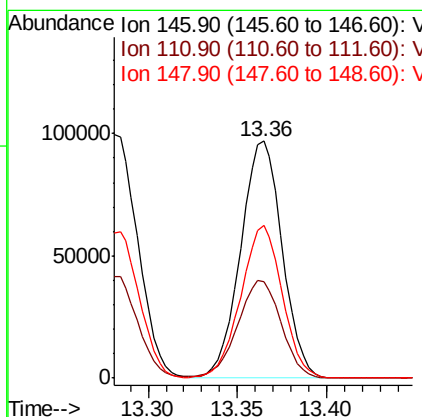
RT: 13.36 min Scan# 3605

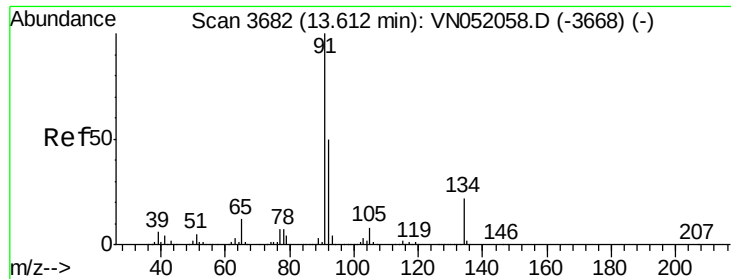
Delta R.T. 0.00 min

Lab File: VN052117.D

Acq: 2 Nov 2018 9:53

Tgt Ion:	146	Resp:	157432
Ion Ratio	Lower	Upper	
146	100		
111	43.3	21.9	65.8
148	64.3	32.6	98.0





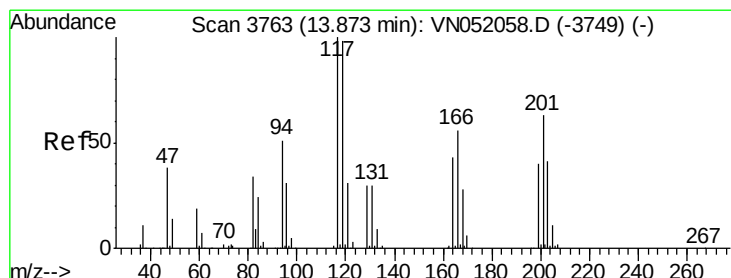
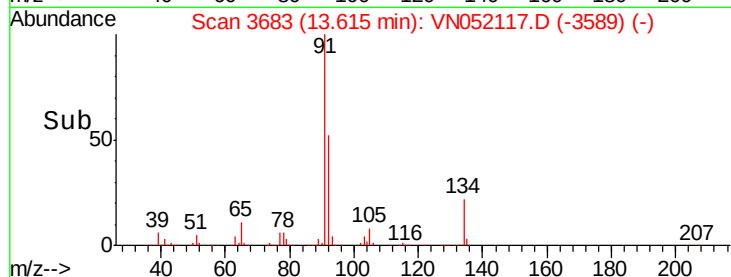
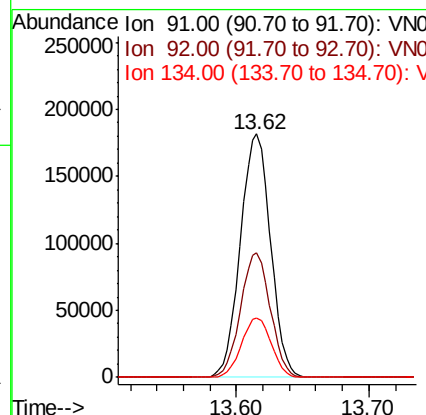
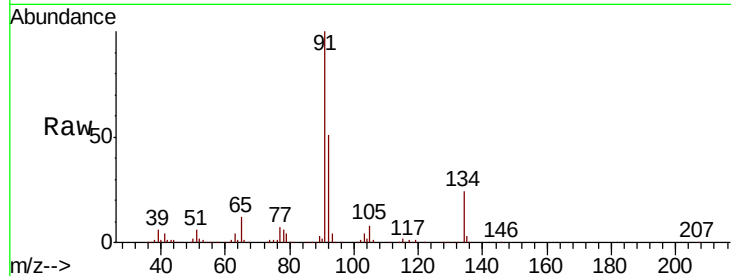
#89
n-Butylbenzene
Concen: 18.893 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN052117.D
Acq: 2 Nov 2018 9:53

Instrument :
MSVOA_N
ClientSampleId :
VN1102WBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	50.6	25.3	75.8
134	24.2	11.2	33.5

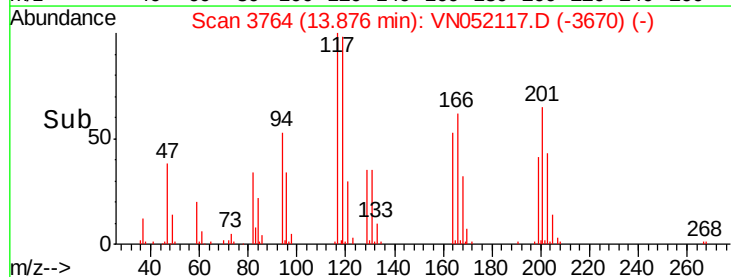
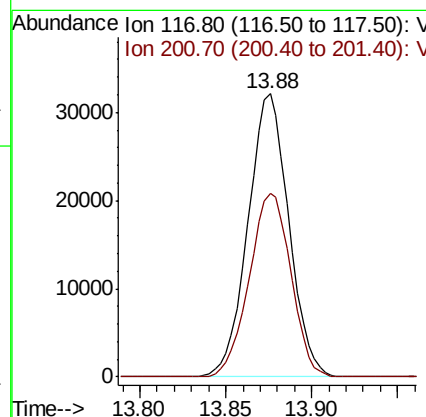
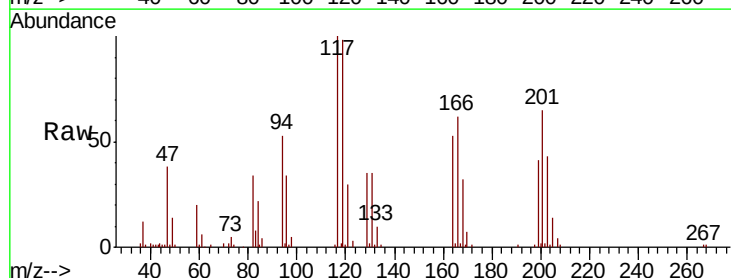
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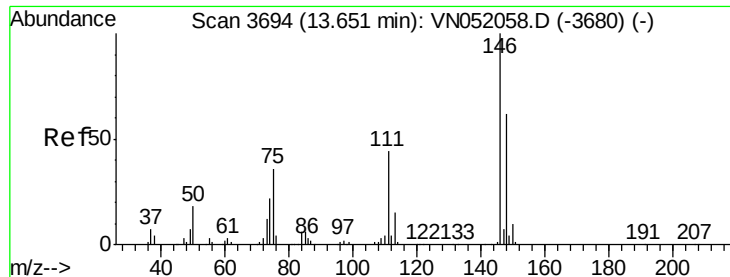
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#90
Hexachloroethane
Concen: 19.359 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. 0.00 min
Lab File: VN052117.D
Acq: 2 Nov 2018 9:53

Tgt Ion	Ratio	Lower	Upper
117	100		
201	66.2	31.1	93.5





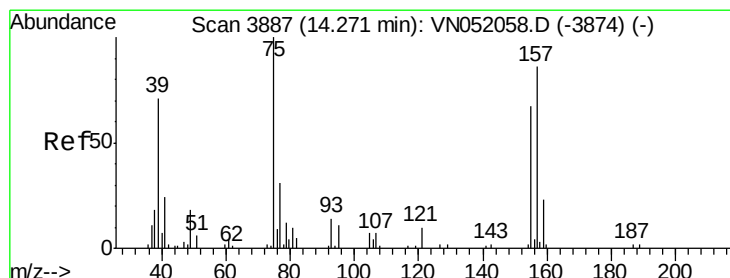
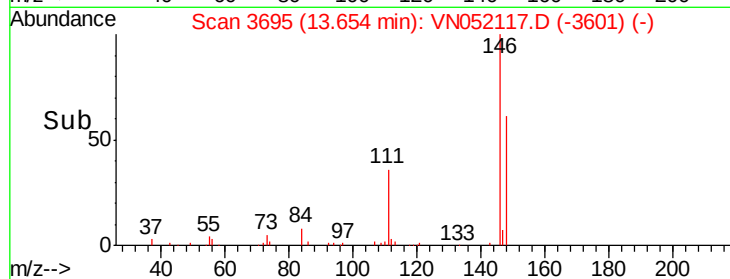
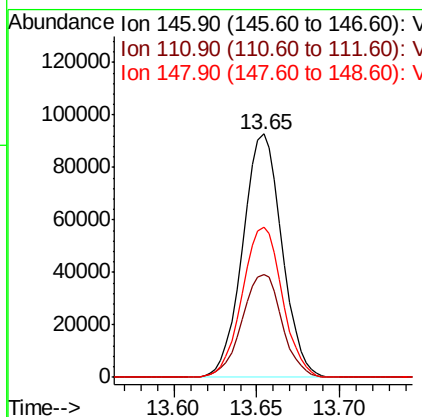
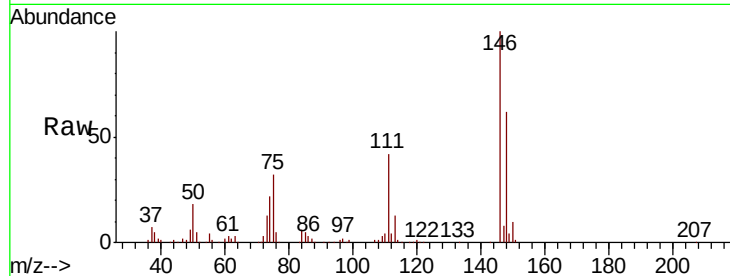
#91
 1,2-Dichlorobenzene
 Concen: 21.246 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN052117.D
 Acq: 2 Nov 2018 9:53

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1102WBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	43.2	22.5	67.5
148	63.1	30.9	92.8

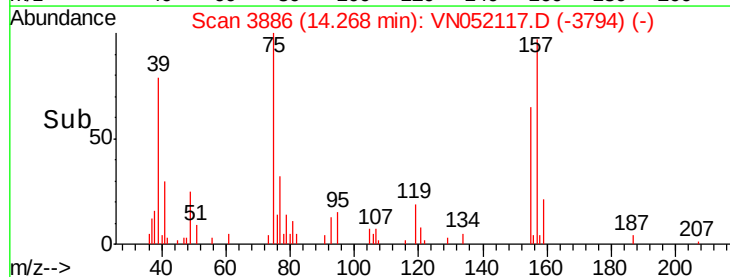
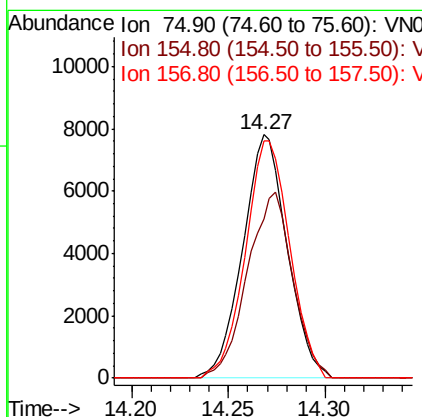
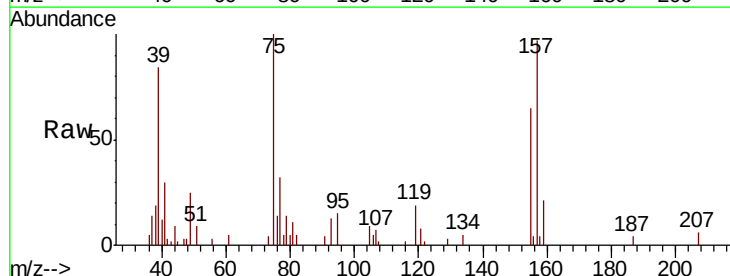
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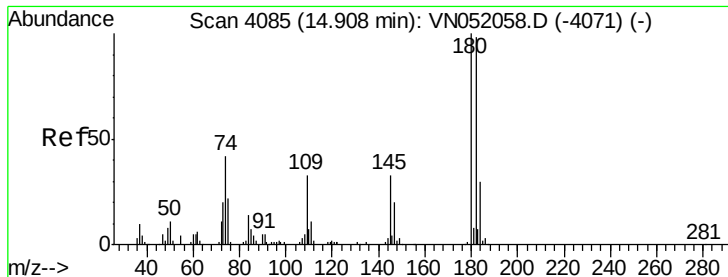
MMDadoda
 11/5/2018 11:52:40 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 18.644 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. -0.00 min
 Lab File: VN052117.D
 Acq: 2 Nov 2018 9:53

Tgt Ion	Ratio	Lower	Upper
75	100		
155	77.7	34.0	102.0
157	97.6	42.1	126.4





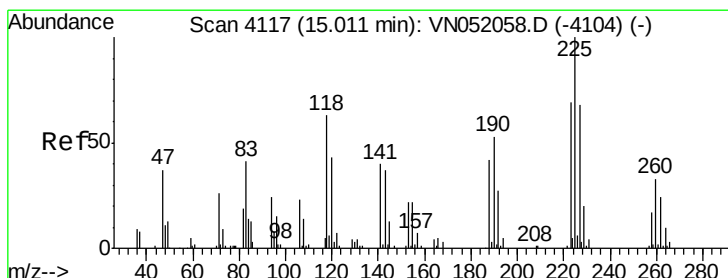
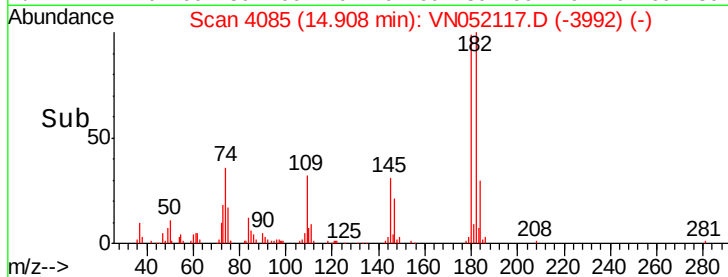
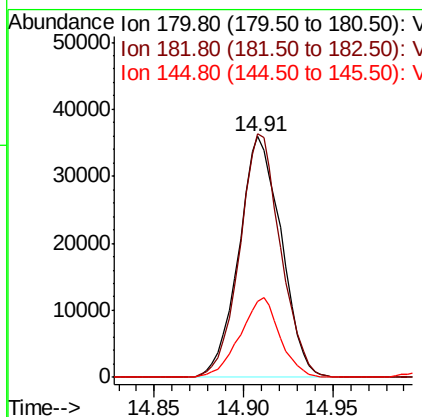
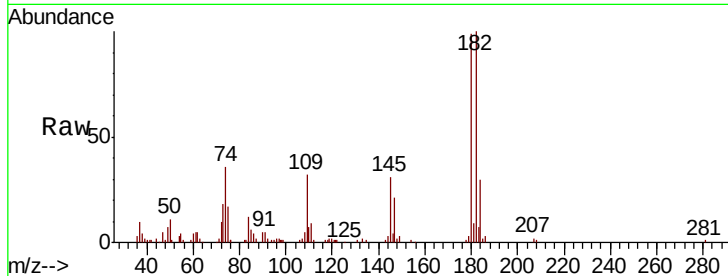
#93
 1,2,4-Trichlorobenzene
 Concen: 22.367 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. -0.00 min
 Lab File: VN052117.D
 Acq: 2 Nov 2018 9:53

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1102WBS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	97.1	49.1	147.4	
145	31.2	16.4	49.2	

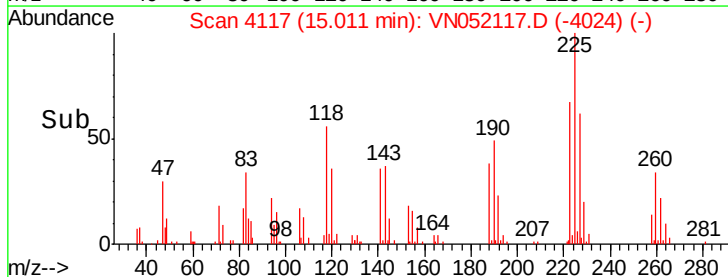
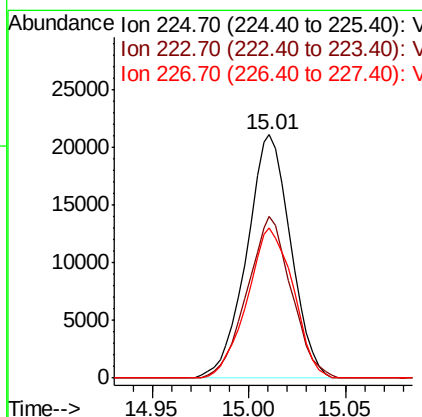
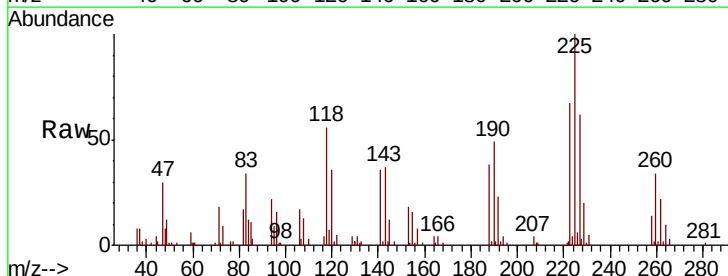
Manual Integrations
 APPROVED

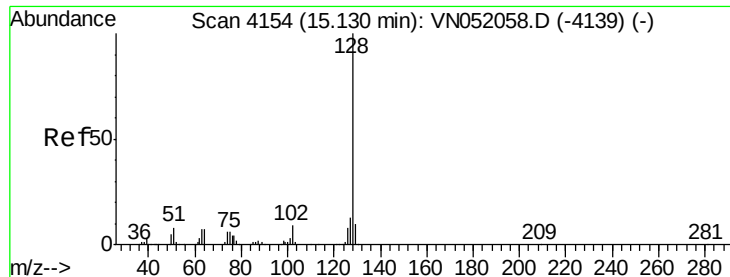
MMDadoda
 11/5/2018 11:52:40 AM



#94
 Hexachlorobutadiene
 Concen: 22.401 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN052117.D
 Acq: 2 Nov 2018 9:53

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	66.7	33.1	99.3	
227	64.5	32.6	97.8	





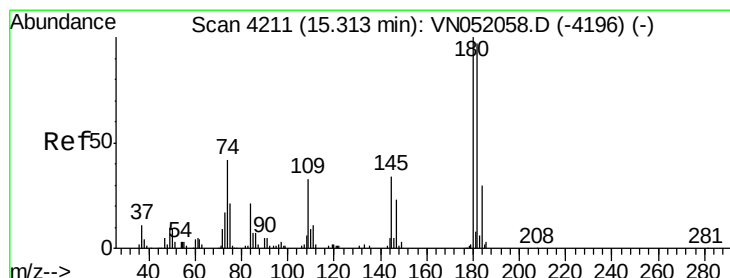
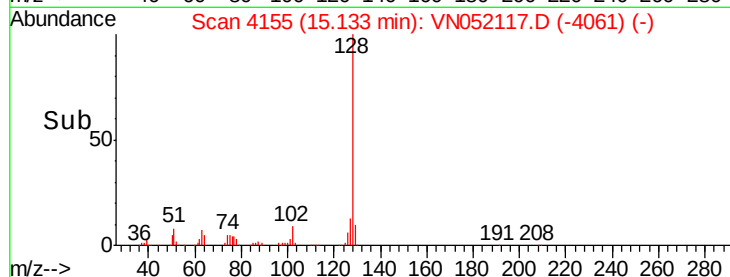
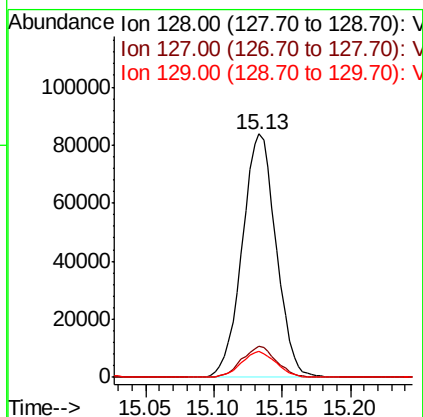
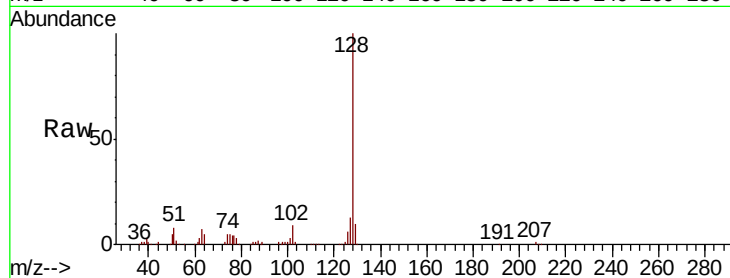
#95
Naphthalene
Concen: 21.558 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN052117.D
Acq: 2 Nov 2018 9:53

Instrument :
MSVOA_N
ClientSampleId :
VN1102WBS01

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.5	15.7
129	11.1	8.6	12.8

Manual Integrations
APPROVED

MMDadoda
11/5/2018 11:52:40 AM



#96
1,2,3-Trichlorobenzene
Concen: 23.311 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. -0.00 min
Lab File: VN052117.D
Acq: 2 Nov 2018 9:53

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.9	47.2	141.6
145	36.4	16.6	49.7

