

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111218\
 Data File : VN052253.D
 Acq On : 12 Nov 2018 10:46
 Operator : MD\SY
 Sample : VN1112WBS01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1112WBS01

Manual Integrations
 APPROVED

MMDadoda
 11/13/2018 2:54:24 PM

Quant Time: Nov 13 00:38:01 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110918W.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 12 00:34:27 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	296232	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	492955	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	434926	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	191652	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	179779	44.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.74%	
35) Dibromofluoromethane	7.59	113	149200	46.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.46%	
50) Toluene-d8	10.09	98	584036	46.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.46%	
62) 4-Bromofluorobenzene	12.40	95	188720	46.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.40%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	62280	19.339	ug/l	97
3) Chloromethane	2.06	50	82369	18.319	ug/l	99
4) Vinyl Chloride	2.19	62	70476	18.813	ug/l	98
5) Bromomethane	2.58	94	42972	18.079	ug/l	95
6) Chloroethane	2.71	64	38860	17.468	ug/l	93
7) Trichlorofluoromethane	3.02	101	94468	18.115	ug/l	99
8) Diethyl Ether	3.41	74	34065	16.604	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.77	101	59943	17.916	ug/l	99
10) Methyl Iodide	3.95	142	74483	17.158	ug/l	99
11) Tert butyl alcohol	4.77	59	14805	71.292	ug/l #	91
12) 1,1-Dichloroethene	3.75	96	53950	17.420	ug/l	98
13) Acrolein	3.61	56	23757	97.762	ug/l	98
14) Allyl chloride	4.33	41	112441	17.342	ug/l	98
15) Acrylonitrile	4.98	53	98701	77.331	ug/l	98
16) Acetone	3.81	43	87843	78.263	ug/l	97
17) Carbon Disulfide	4.06	76	162967	18.140	ug/l	100
18) Methyl Acetate	4.33	43	52352	15.465	ug/l	98
19) Methyl tert-butyl Ether	5.04	73	149129	16.855	ug/l	97
20) Methylene Chloride	4.55	84	64280	17.405	ug/l	96
21) trans-1,2-Dichloroethene	5.04	96	59708	17.739	ug/l	97
22) Diisopropyl ether	5.95	45	230289	17.717	ug/l	95
23) Vinyl Acetate	5.90	43	741673	83.158	ug/l	100
24) 1,1-Dichloroethane	5.85	63	119768	17.445	ug/l	99
25) 2-Butanone	6.83	43	126448	73.166	ug/l	97
26) 2,2-Dichloropropane	6.83	77	92431	18.434	ug/l	98
27) cis-1,2-Dichloroethene	6.83	96	67048	17.796	ug/l	97
28) Bromochloromethane	7.19	49	63178	18.624	ug/l	98
29) Tetrahydrofuran	7.21	42	79089	70.317	ug/l	98
30) Chloroform	7.37	83	115050	17.707	ug/l	97
31) Cyclohexane	7.66	56	120538	18.559	ug/l	96
32) 1,1,1-Trichloroethane	7.57	97	97557	18.421	ug/l	97
36) 1,1-Dichloropropene	7.79	75	89005	17.888	ug/l	96
37) Ethyl Acetate	6.93	43	55887	14.934	ug/l	97
38) Carbon Tetrachloride	7.77	117	84115	18.655	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	108785	19.168	ug/l	97
40) Benzene	8.04	78	265706	18.651	ug/l	99
41) Methacrylonitrile	7.17	41	20132m	9.258	ug/l	
42) 1,2-Dichloroethane	8.12	62	87537	17.513	ug/l	99
43) Isopropyl Acetate	8.16	43	102123	15.656	ug/l	98
44) Trichloroethene	8.83	130	65067	18.227	ug/l	99
45) 1,2-Dichloropropane	9.12	63	72399	18.191	ug/l	99
46) Dibromomethane	9.21	93	40425	17.684	ug/l	97
47) Bromodichloromethane	9.40	83	84135	17.764	ug/l	98
48) Methyl methacrylate	9.20	41	52626	15.312	ug/l	97
49) 1,4-Dioxane	9.19	88	8524	308.514	ug/l	93
51) 4-Methyl-2-Pentanone	9.98	43	276980	76.888	ug/l	100
52) Toluene	10.15	92	158747	18.473	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	83736	17.916	ug/l	98
54) cis-1,3-Dichloropropene	9.84	75	99742	18.078	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	53692	17.286	ug/l	97
56) Ethyl methacrylate	10.43	69	67858	16.165	ug/l	98
57) 1,3-Dichloropropane	10.71	76	95515	17.178	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.69	63	195540	84.124	ug/l	98
59) 2-Hexanone	10.75	43	189768	75.041	ug/l	100
60) Dibromochloromethane	10.90	129	56889	18.057	ug/l	100
61) 1,2-Dibromoethane	11.00	107	52627	17.240	ug/l	99
64) Tetrachloroethene	10.63	164	57100	18.752	ug/l	98
65) Chlorobenzene	11.43	112	170596	18.511	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	58536	18.751	ug/l	99
67) Ethyl Benzene	11.51	91	299678	18.487	ug/l	99
68) m/p-Xylenes	11.62	106	225534	37.360	ug/l	98
69) o-Xylene	11.94	106	108568	18.824	ug/l	100
70) Styrene	11.96	104	172910	18.557	ug/l	99
71) Bromoform	12.12	173	31488	16.908	ug/l #	99
73) Isopropylbenzene	12.25	105	291620	18.614	ug/l	99
74) N-amyl acetate	12.07	43	87153	15.323	ug/l	95
75) 1,1,2,2-Tetrachloroethane	12.50	83	63315	16.485	ug/l	97
76) 1,2,3-Trichloropropane	12.55	75	54520m	16.079	ug/l	
77) Bromobenzene	12.52	156	65745	17.928	ug/l	99
78) n-propylbenzene	12.59	91	343386	18.714	ug/l	100
79) 2-Chlorotoluene	12.67	91	198273	18.652	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	234812	18.846	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	15638	15.742	ug/l	94
82) 4-Chlorotoluene	12.77	91	195861	18.363	ug/l	99
83) tert-Butylbenzene	12.99	119	203747	18.731	ug/l	100
84) 1,2,4-Trimethylbenzene	13.04	105	238597	18.993	ug/l	98
85) sec-Butylbenzene	13.17	105	286700	19.220	ug/l	99
86) p-Isopropyltoluene	13.29	119	239054	19.156	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	117799	18.452	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	114677	17.943	ug/l	98
89) n-Butylbenzene	13.61	91	210259	18.921	ug/l	100
90) Hexachloroethane	13.87	117	39570	18.065	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	110601	17.752	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	8256	15.120	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	46646	18.934	ug/l	100
94) Hexachlorobutadiene	15.01	225	26329	19.667	ug/l	99
95) Naphthalene	15.13	128	96841	15.949	ug/l	100
96) 1,2,3-Trichlorobenzene	15.31	180	42013	18.037	ug/l	96

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

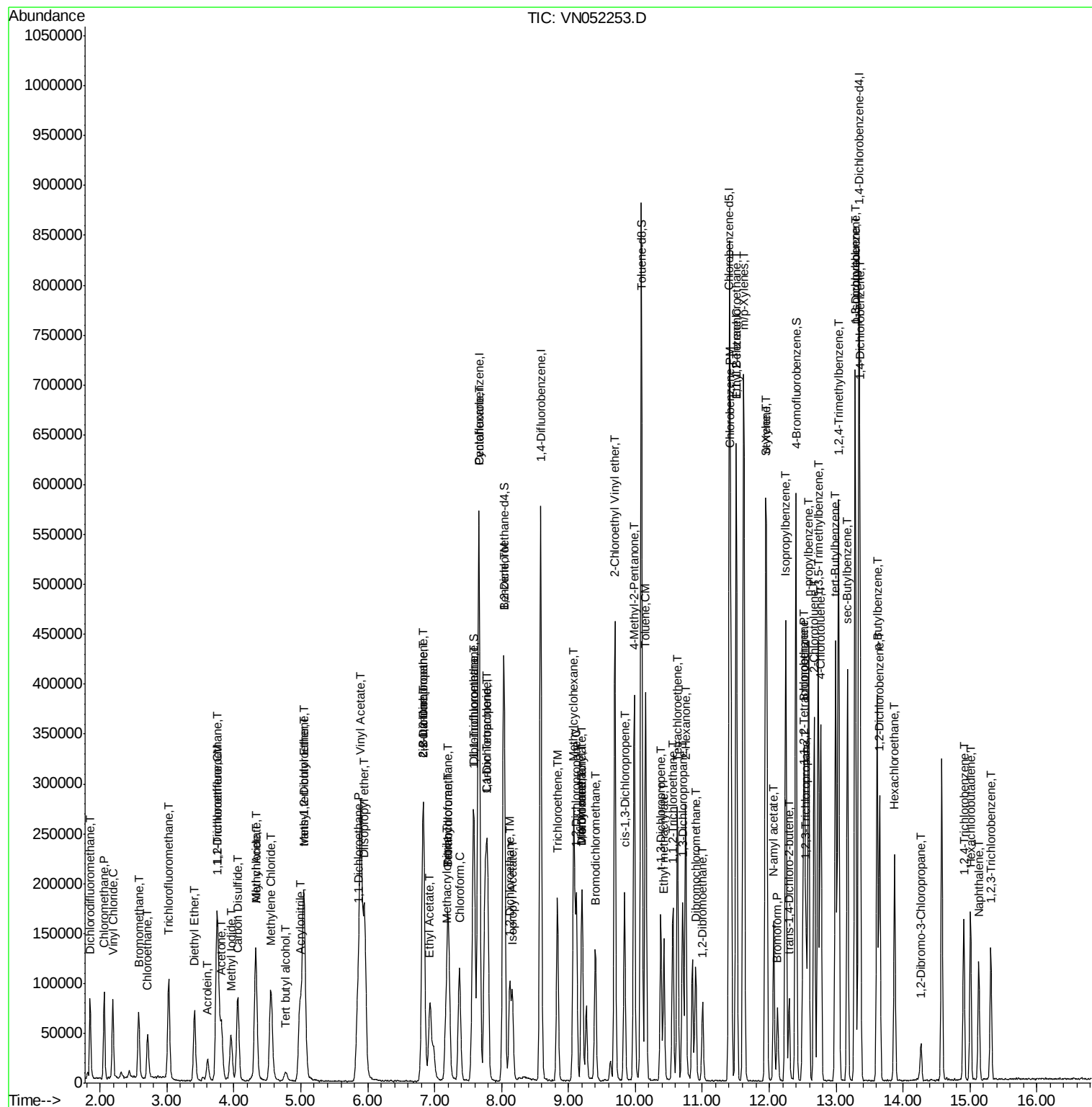
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Data File : VN052253.D
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Sample : VN1112WBS01
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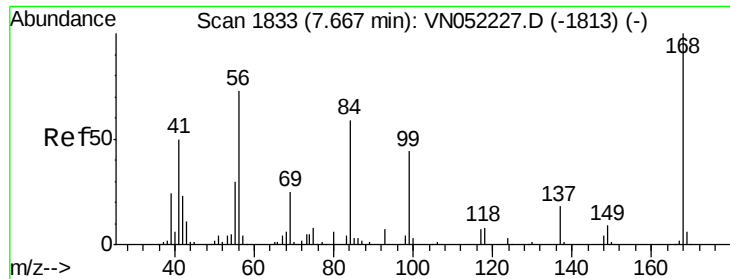
Instrument :
MSVOA_N
ClientSampleId :
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN052253.D

Acq: 12 Nov 2018 10:46

Instrument :

MSVOA_N

ClientSampleId :

VN1112WBS01

Tot Ion:168 Resp: 296232

Ion Ratio Lower Upper

168 100

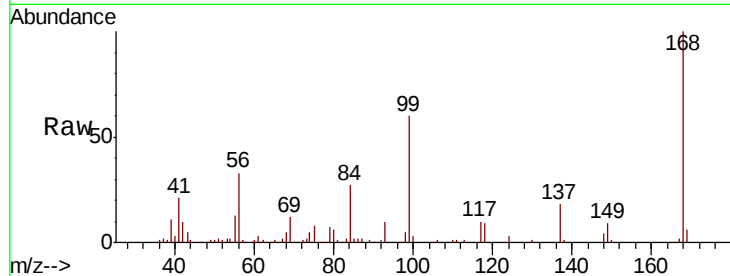
99 59.8 44.7 67.1

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

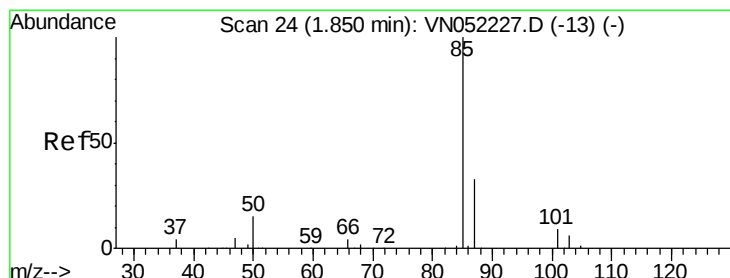
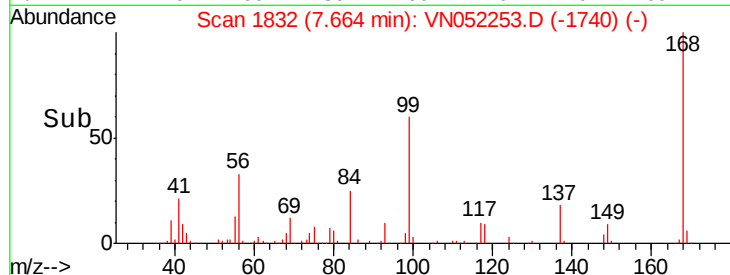
7.66

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 19.339 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN052253.D

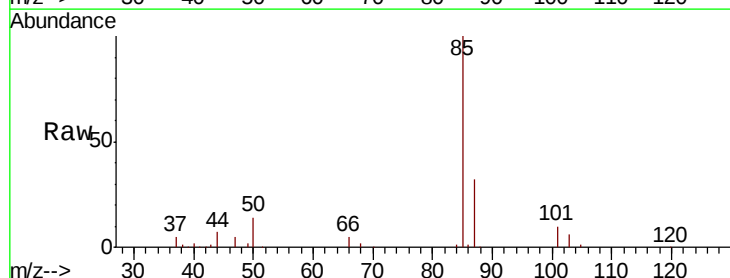
Acq: 12 Nov 2018 10:46

Tgt Ion: 85 Resp: 62280

Ion Ratio Lower Upper

85 100

87 31.7 16.7 50.0



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

1.85

50000

40000

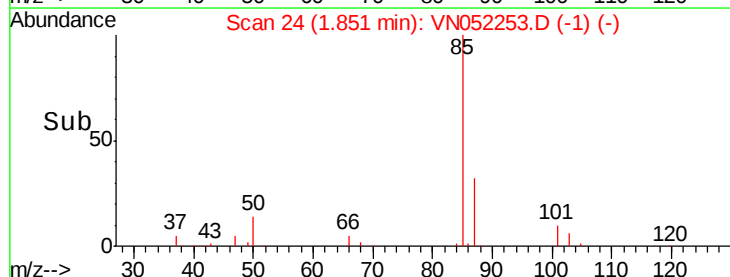
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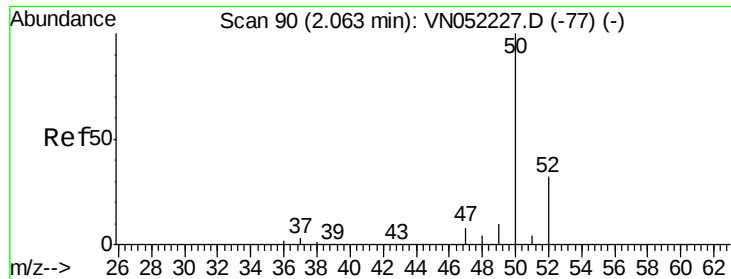
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10000

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Time-->





#3

Chloromethane

Concen: 18.319 ug/l

RT: 2.06 min Scan# 89

Delta R.T. -0.00 min

Lab File: VN052253.D

Acq: 12 Nov 2018 10:46

Instrument :

MSVOA_N

ClientSampleId :

VN1112WBS01

Tot Ion: 50 Resp: 82369

Ion Ratio Lower Upper

50 100

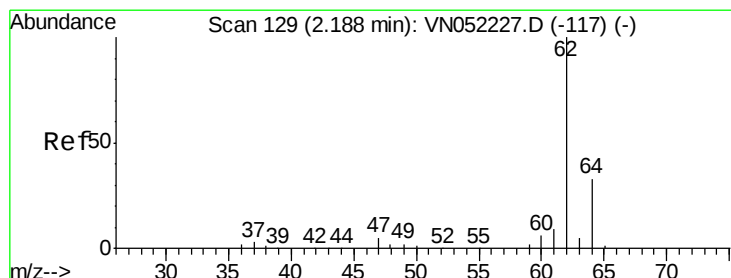
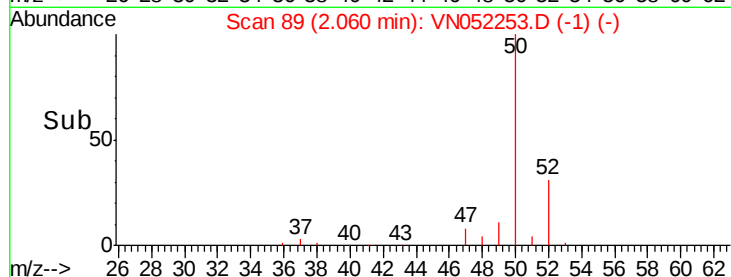
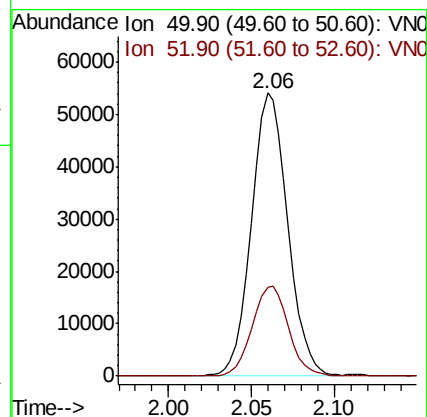
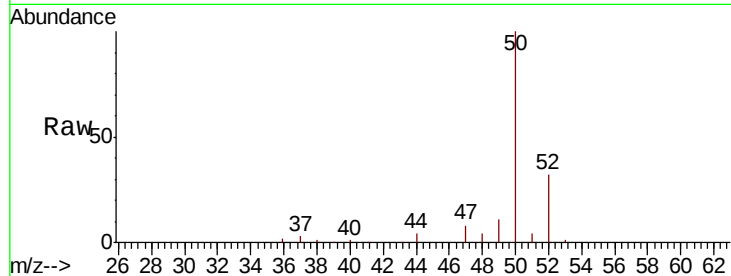
52 31.5 25.7 38.5

Manual Integrations

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#4

Vinyl Chloride

Concen: 18.813 ug/l

RT: 2.19 min Scan# 130

Delta R.T. 0.00 min

Lab File: VN052253.D

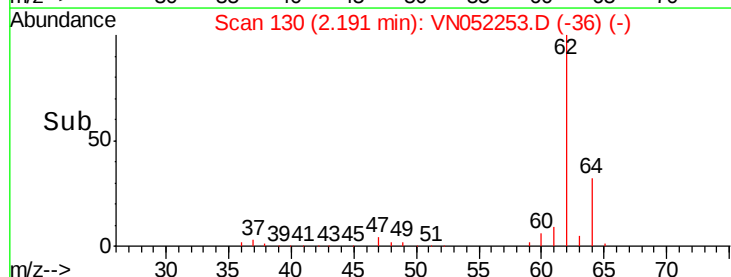
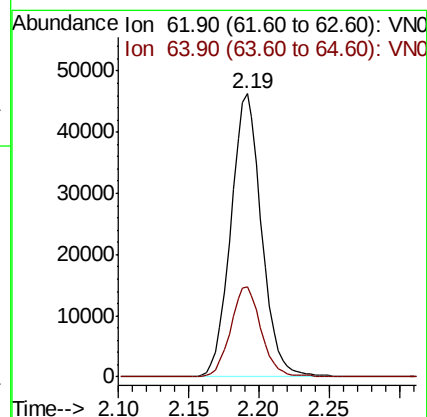
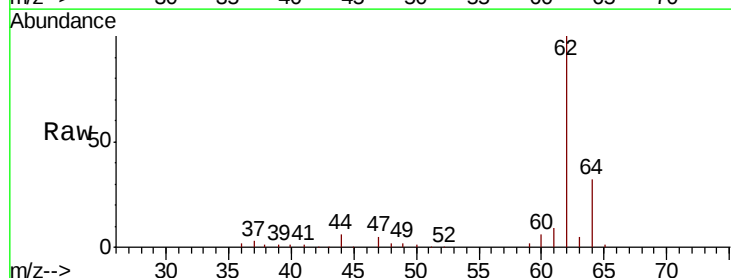
Acq: 12 Nov 2018 10:46

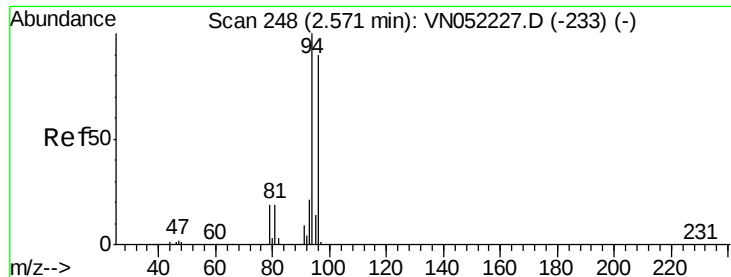
Tgt Ion: 62 Resp: 70476

Ion Ratio Lower Upper

62 100

64 31.7 26.1 39.1





#5

Bromomethane

Concen: 18.079 ug/l

RT: 2.58 min Scan# 250

Delta R.T. 0.01 min

Lab File: VN052253.D

Acq: 12 Nov 2018 10:46

Instrument :

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ClientSampleId :

VN1112WBS01

Tot Ion: 94 Resp: 42972

Ion Ratio Lower Upper

94 100

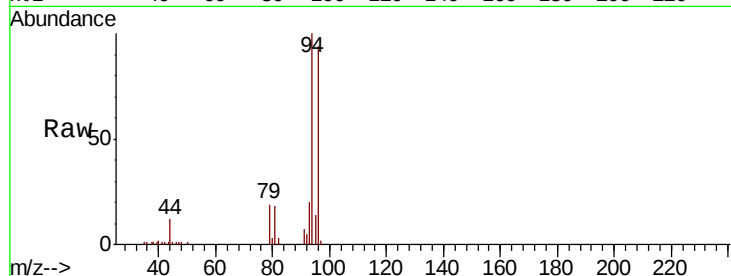
96 94.5 71.8 107.8

Manual Integrations

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Abundance Ion 93.90 (93.60 to 94.60): VN052227.D (-233) (-)

Ion 95.90 (95.60 to 96.60): VN052227.D (-233) (-)

25000

20000

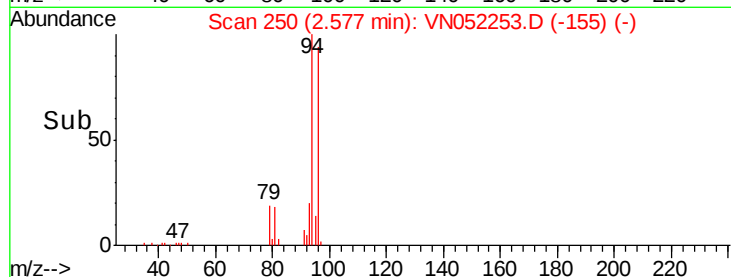
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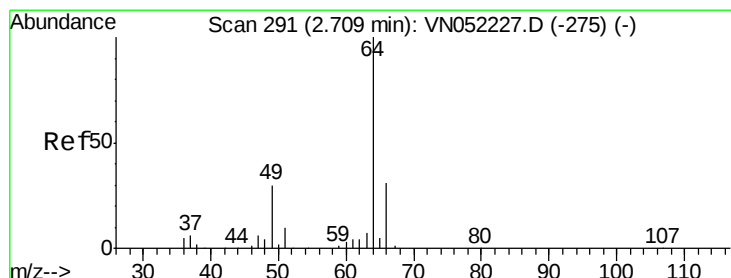
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Time-->



Time-->



#6

Chloroethane

Concen: 17.468 ug/l

RT: 2.71 min Scan# 292

Delta R.T. 0.00 min

Lab File: VN052253.D

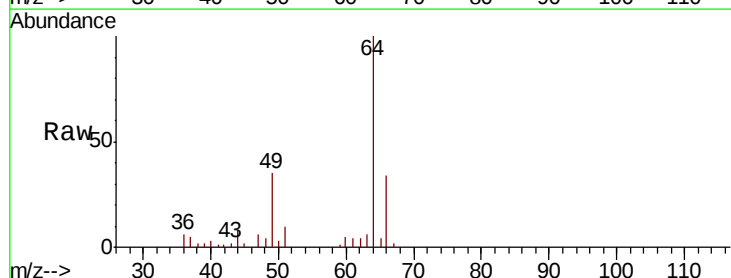
Acq: 12 Nov 2018 10:46

Tgt Ion: 64 Resp: 38860

Ion Ratio Lower Upper

64 100

66 34.5 24.6 36.8



Abundance Ion 63.90 (63.60 to 64.60): VN052227.D (-275) (-)

Ion 65.90 (65.60 to 66.60): VN052227.D (-275) (-)

20000

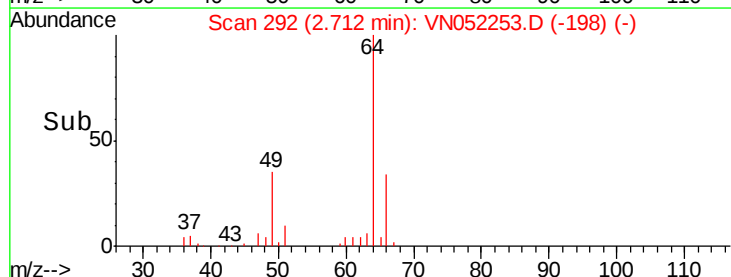
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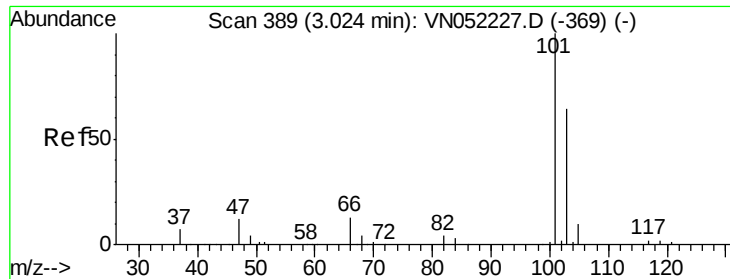
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Time-->



Time-->



#7

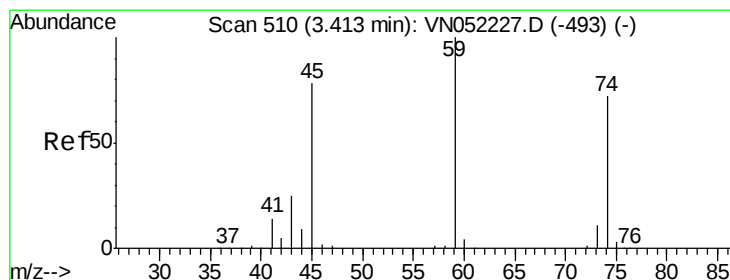
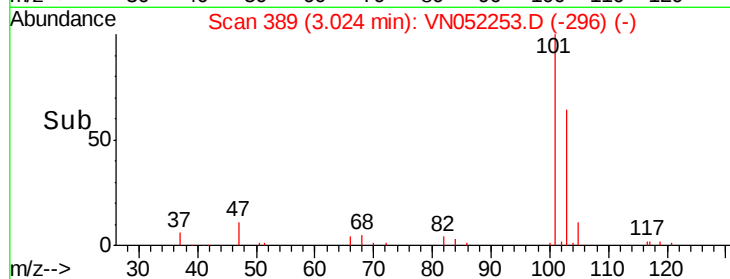
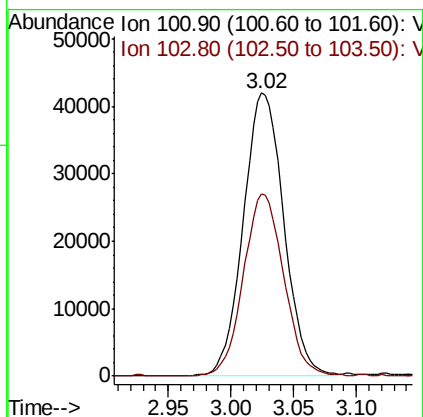
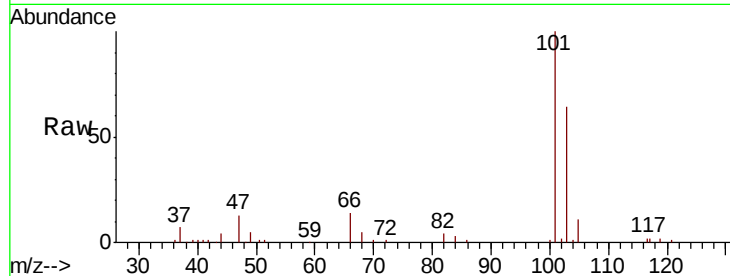
Trichlorofluoromethane
 Concen: 18.115 ug/l
 RT: 3.02 min Scan# 389
 Delta R.T. 0.00 min
 Lab File: VN052253.D
 Acq: 12 Nov 2018 10:46

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Tot Ion:101 Resp: 94468
 Ion Ratio Lower Upper
 101 100
 103 64.5 51.2 76.8

Manual Integrations
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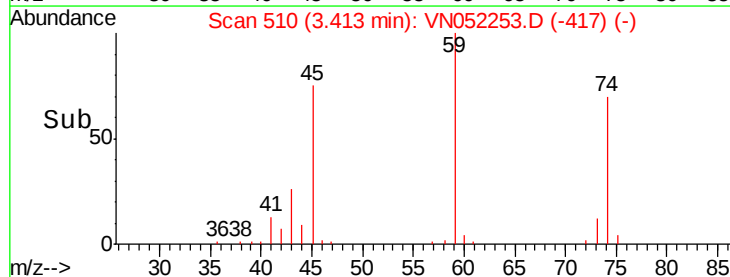
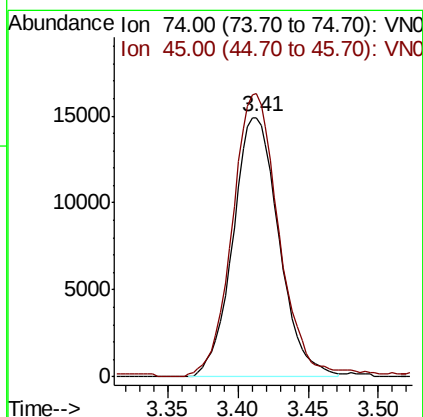
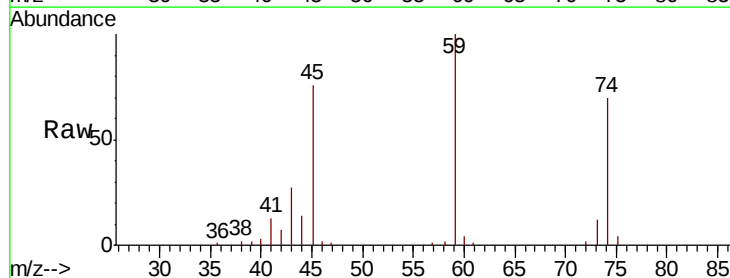
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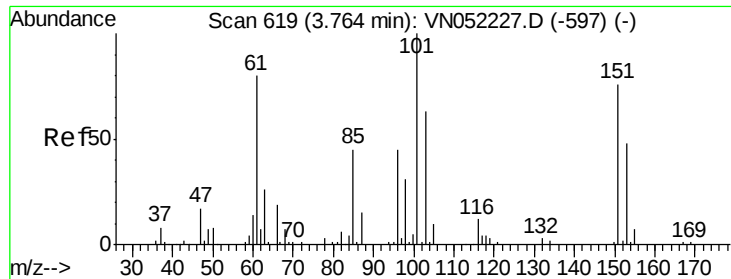


#8

Diethyl Ether
 Concen: 16.604 ug/l
 RT: 3.41 min Scan# 510
 Delta R.T. 0.00 min
 Lab File: VN052253.D
 Acq: 12 Nov 2018 10:46

Tgt Ion: 74 Resp: 34065
 Ion Ratio Lower Upper
 74 100
 45 109.7 55.5 166.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 17.916 ug/l

RT: 3.77 min Scan# 620

Delta R.T. 0.00 min

Lab File: VN052253.D

Acq: 12 Nov 2018 10:46

Instrument :

MSVOA_N

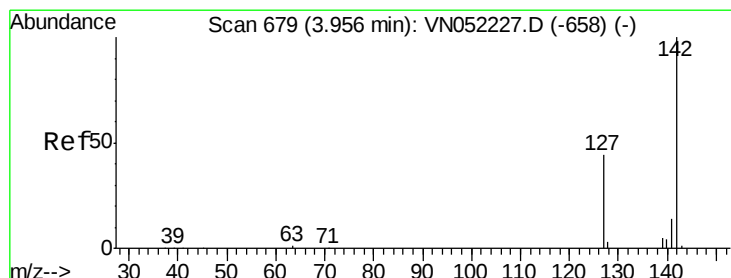
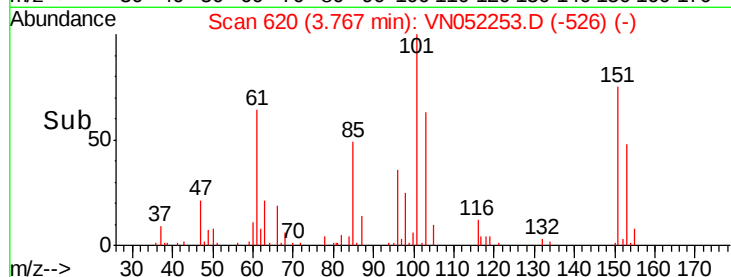
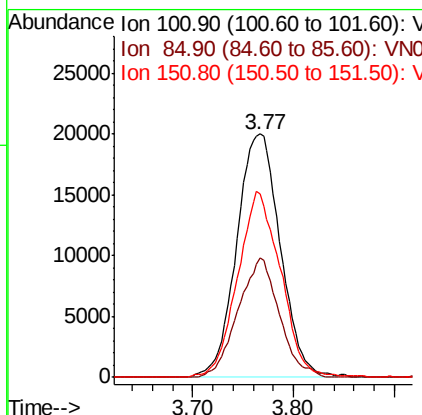
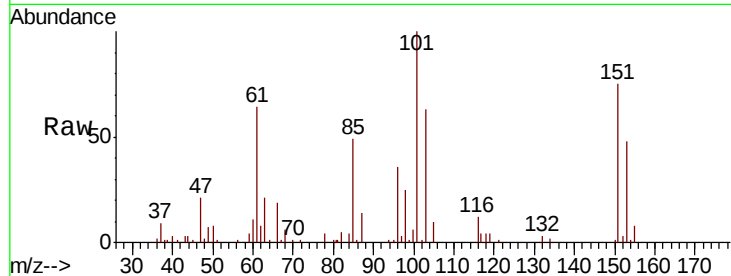
ClientSampleId :

VN1112WBS01

Tot Ion:	101	Resp:	59943
Ion Ratio	Lower	Upper	
101	100		
85	46.3	36.2	54.4
151	75.0	59.2	88.8

Manual Integrations
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#10

Methyl Iodide

Concen: 17.158 ug/l

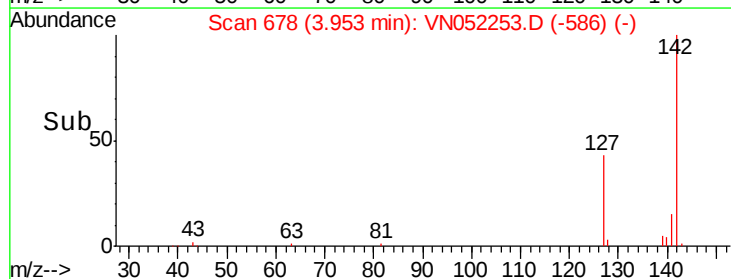
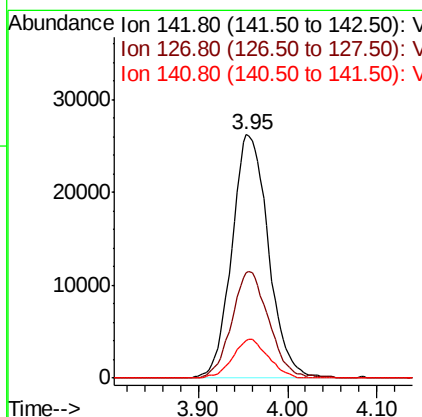
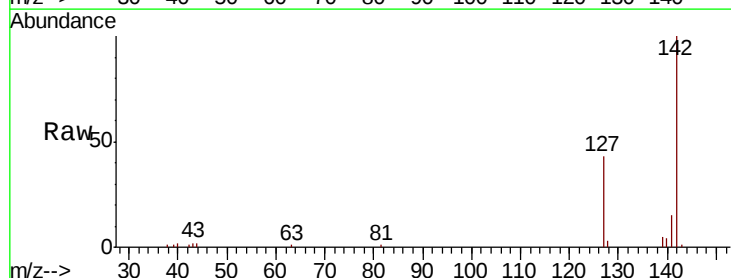
RT: 3.95 min Scan# 678

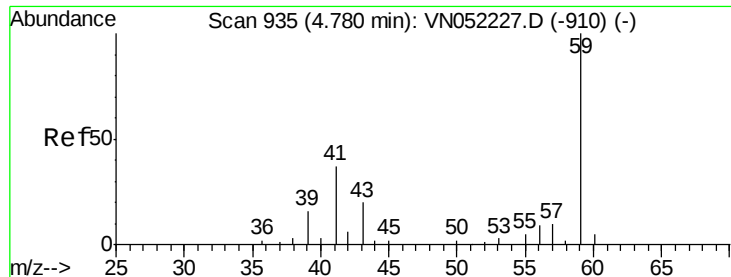
Delta R.T. -0.00 min

Lab File: VN052253.D

Acq: 12 Nov 2018 10:46

Tgt Ion:	142	Resp:	74483
Ion Ratio	Lower	Upper	
142	100		
127	43.9	35.3	52.9
141	15.4	11.8	17.6





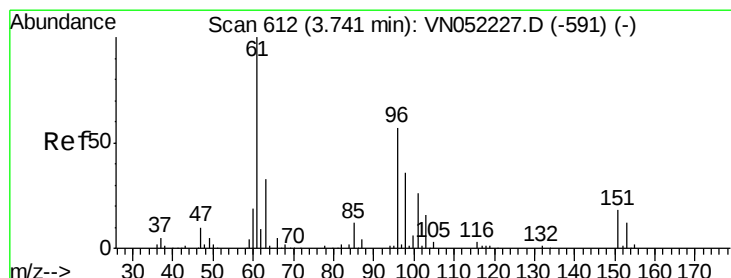
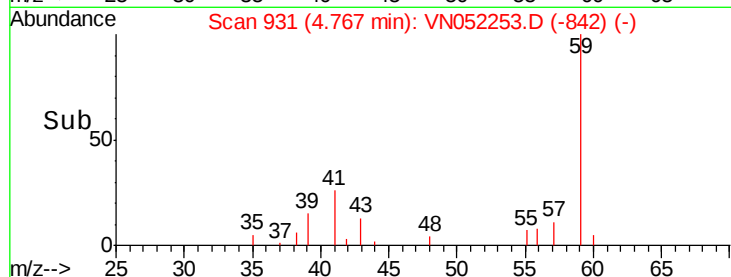
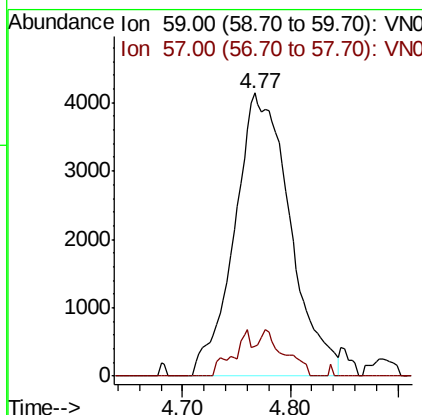
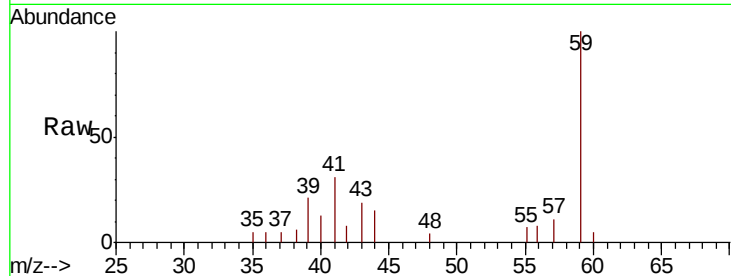
#11
Tert butyl alcohol
Concen: 71.292 ug/l
RT: 4.77 min Scan# 931
Delta R.T. -0.01 min
Lab File: VN052253.D
Acq: 12 Nov 2018 10:46

Instrument :
MSVOA_N
ClientSampleId :
VN1112WBS01

Tot Ion: 59 Resp: 14805
Ion Ratio Lower Upper
59 100
57 7.5 8.8 13.2#

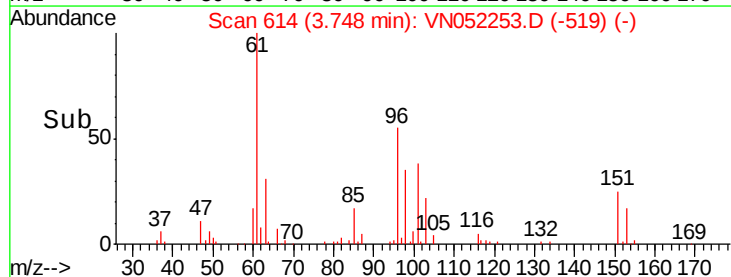
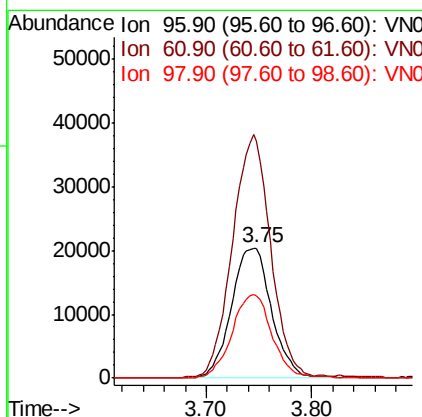
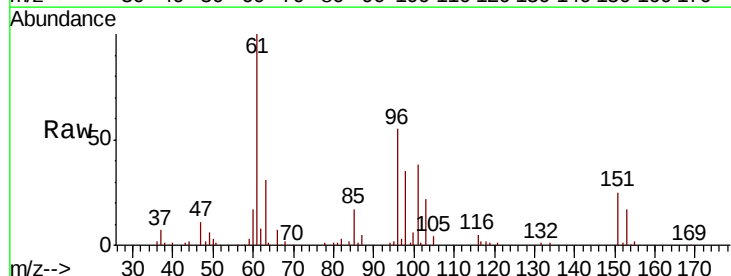
Manual Integrations
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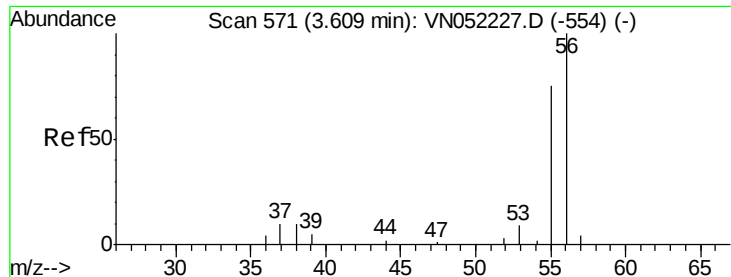
MMDadoda
11/13/2018 2:54:24 PM



#12
1,1-Dichloroethene
Concen: 17.420 ug/l
RT: 3.75 min Scan# 614
Delta R.T. 0.01 min
Lab File: VN052253.D
Acq: 12 Nov 2018 10:46

Tgt Ion: 96 Resp: 53950
Ion Ratio Lower Upper
96 100
61 180.6 141.1 211.7
98 63.3 50.3 75.5





#13

Acrolein

Concen: 97.762 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN052253.D

Acq: 12 Nov 2018 10:46

Instrument :

MSVOA_N

ClientSampleId :

VN1112WBS01

Tot Ion: 56 Resp: 23757

Ion Ratio Lower Upper

56 100

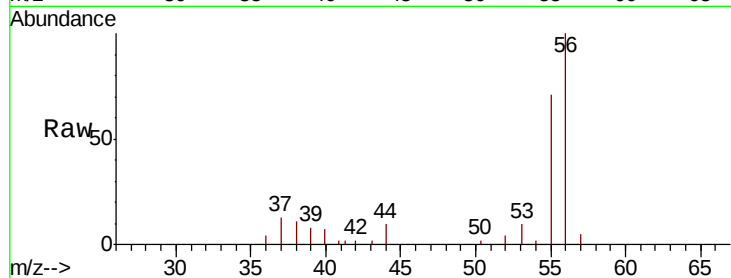
55 72.8 59.9 89.9

Manual Integrations

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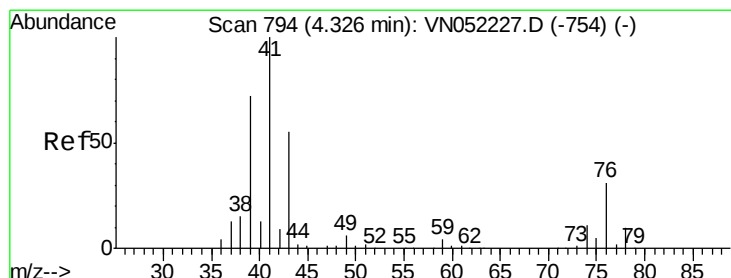
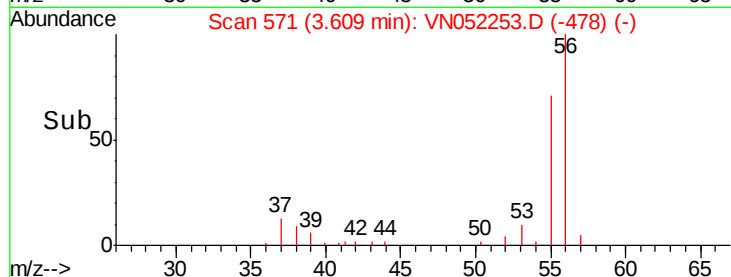
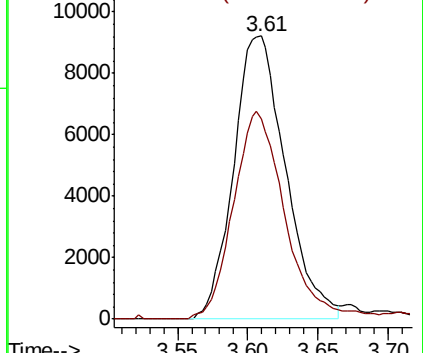
MMDadoda

11/13/2018 2:54:24 PM



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Allyl chloride

Concen: 17.342 ug/l

RT: 4.33 min Scan# 794

Delta R.T. 0.00 min

Lab File: VN052253.D

Acq: 12 Nov 2018 10:46

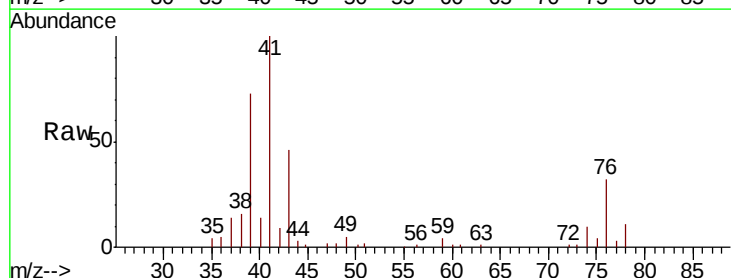
Tgt Ion: 41 Resp: 112441

Ion Ratio Lower Upper

41 100

39 67.9 55.1 82.7

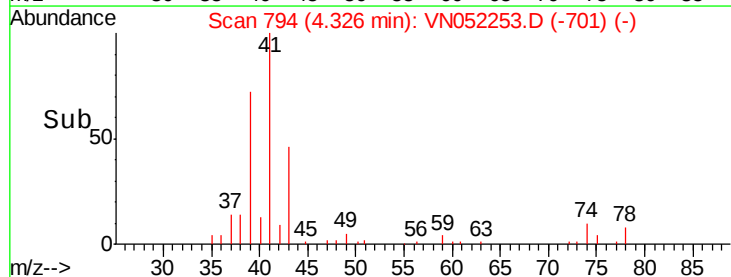
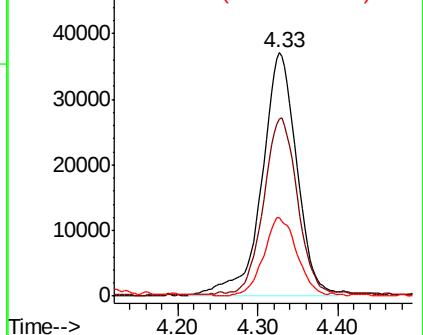
76 30.8 23.6 35.4

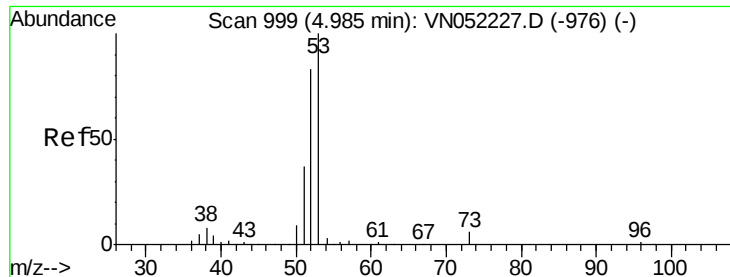


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





#15

Acrylonitrile

Concen: 77.331 ug/l

RT: 4.98 min Scan# 998

Delta R.T. -0.00 min

Lab File: VN052253.D

Acq: 12 Nov 2018 10:46

Instrument :

MSVOA_N

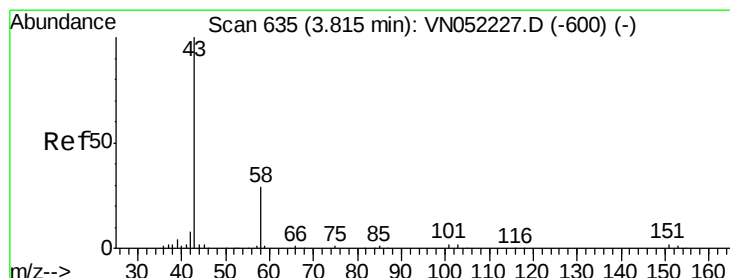
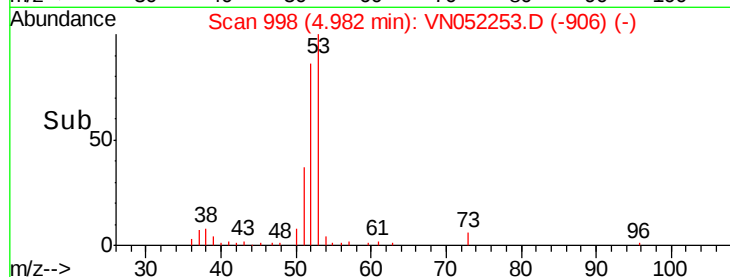
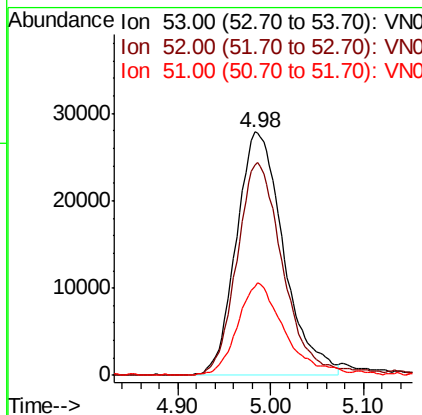
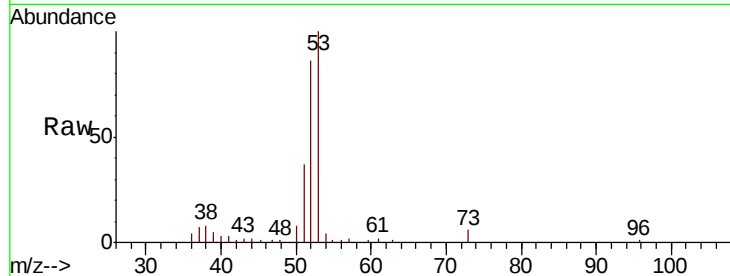
ClientSampleId :

VN1112WBS01

Tot Ion:	53	Resp:	98701
Ion	Ratio	Lower	Upper
53	100		
52	85.2	66.7	100.1
51	37.7	29.4	44.0

Manual Integrations
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#16

Acetone

Concen: 78.263 ug/l

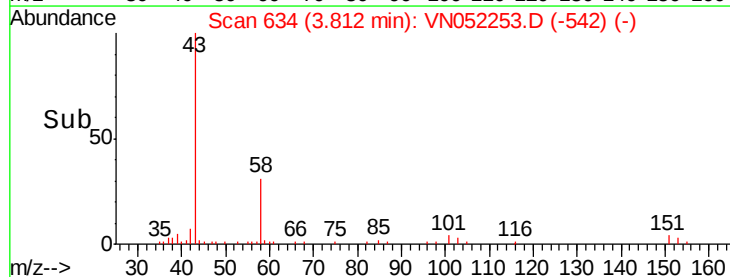
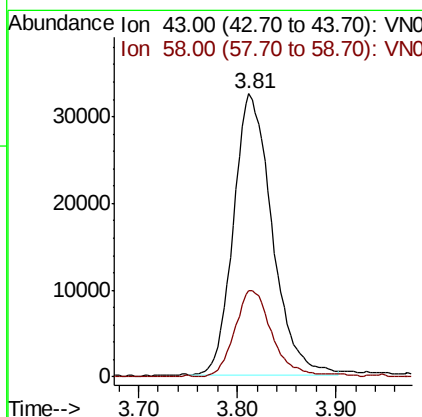
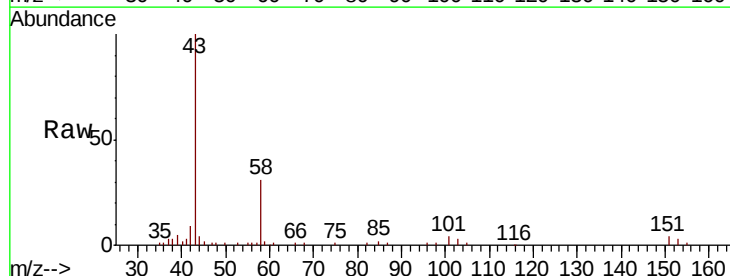
RT: 3.81 min Scan# 634

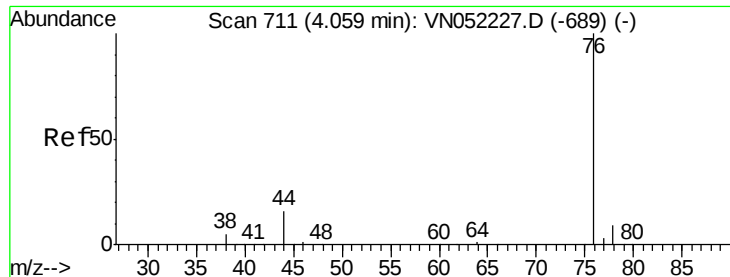
Delta R.T. -0.00 min

Lab File: VN052253.D

Acq: 12 Nov 2018 10:46

Tgt Ion:	43	Resp:	87843
Ion	Ratio	Lower	Upper
43	100		
58	30.4	23.0	34.6





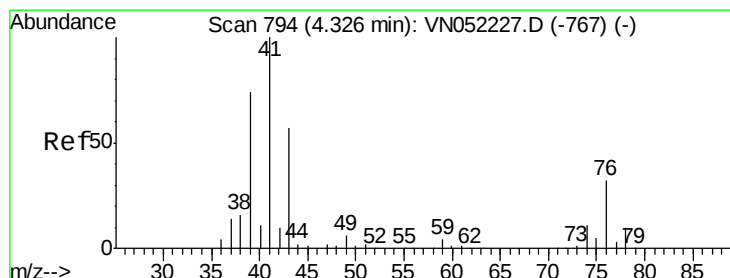
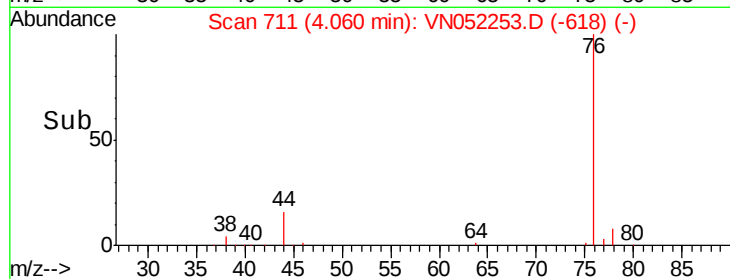
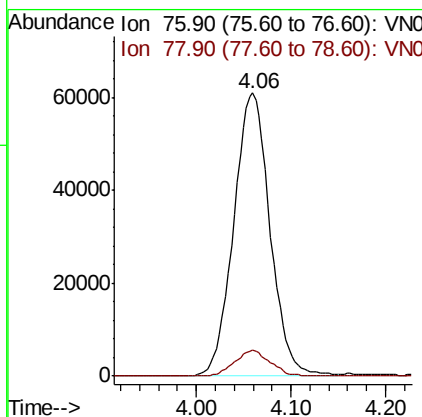
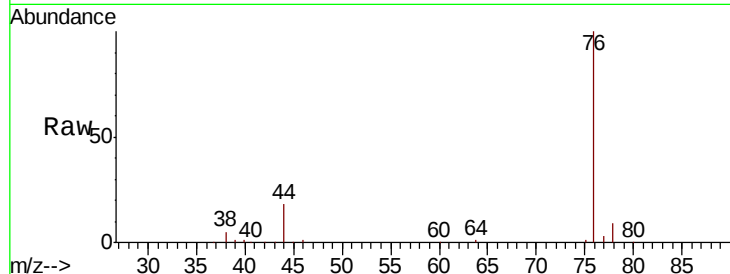
#17
Carbon Disulfide
Concen: 18.140 ug/l
RT: 4.06 min Scan# 711
Delta R.T. 0.00 min
Lab File: VN052253.D
Acq: 12 Nov 2018 10:46

Instrument :
MSVOA_N
ClientSampleId :
VN1112WBS01

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.3	10.9

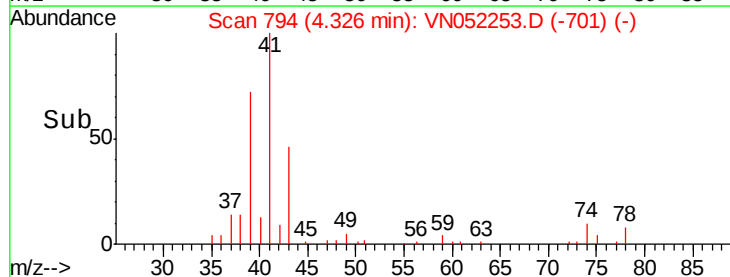
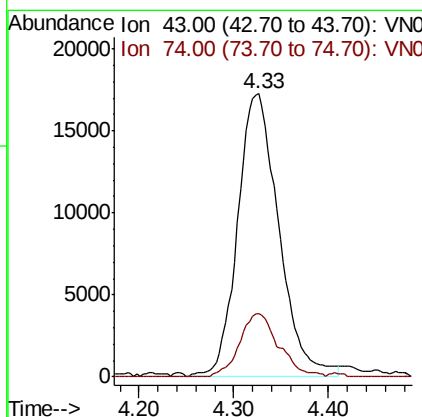
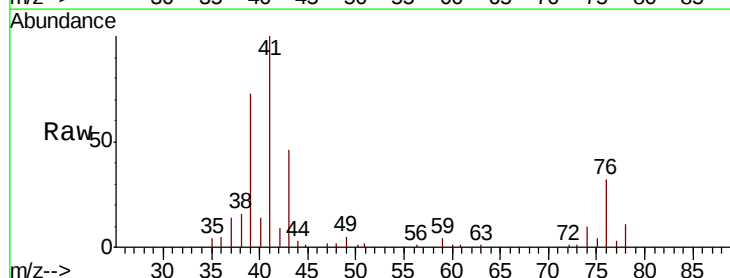
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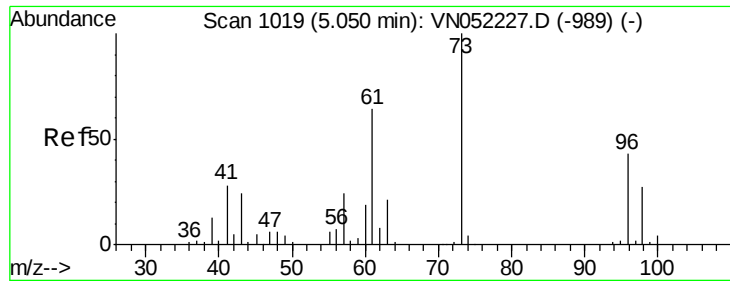
MMDadoda
11/13/2018 2:54:24 PM



#18
Methyl Acetate
Concen: 15.465 ug/l
RT: 4.33 min Scan# 794
Delta R.T. 0.00 min
Lab File: VN052253.D
Acq: 12 Nov 2018 10:46

Tgt Ion	Ratio	Lower	Upper
43	100		
74	21.2	16.2	24.2





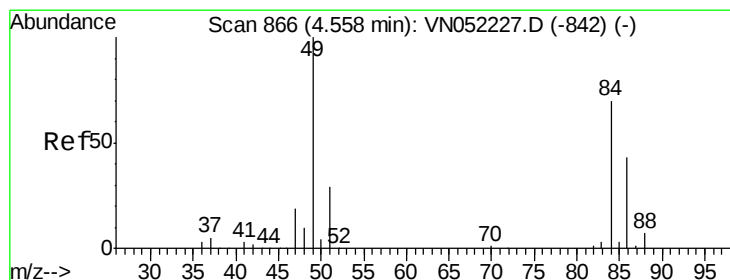
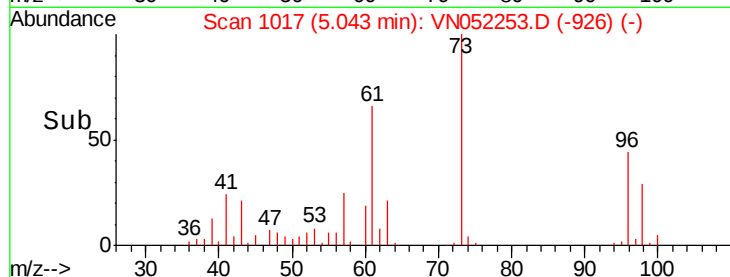
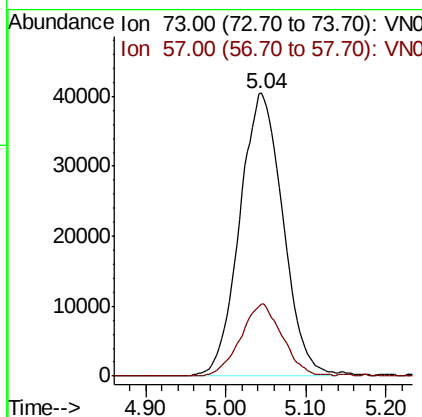
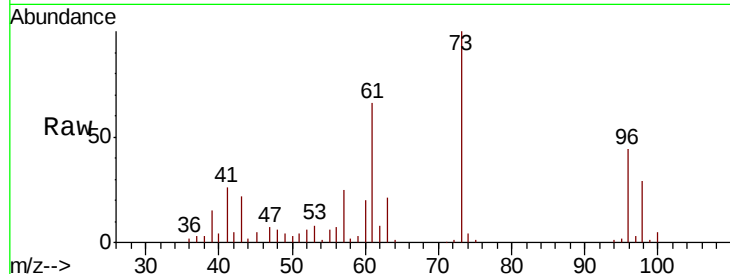
#19
Methvl tert-butvl Ether
Concen: 16.855 ug/l
RT: 5.04 min Scan# 1017
Delta R.T. -0.01 min
Lab File: VN052253.D
Acq: 12 Nov 2018 10:46

Instrument :
MSVOA_N
ClientSampleId :
VN1112WBS01

Tot Ion: 73 Resp: 149129
Ion Ratio Lower Upper
73 100
57 25.5 19.1 28.7

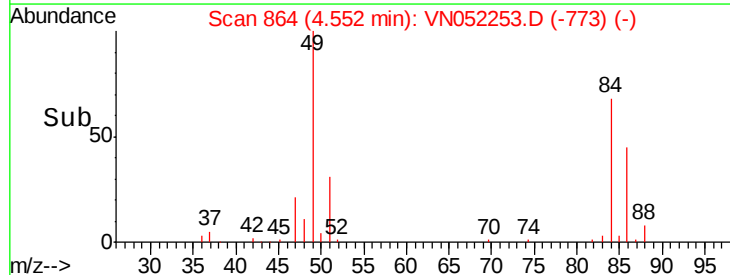
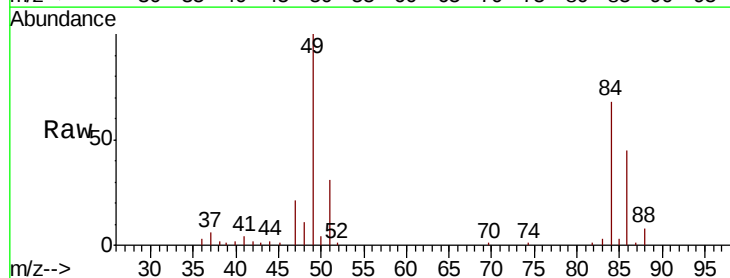
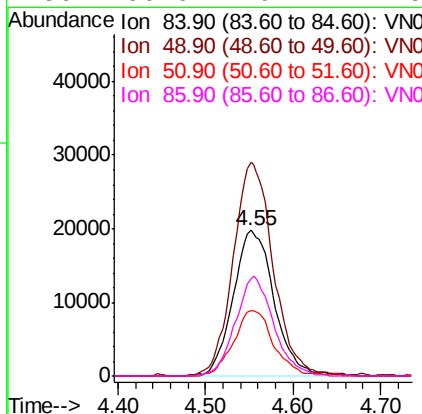
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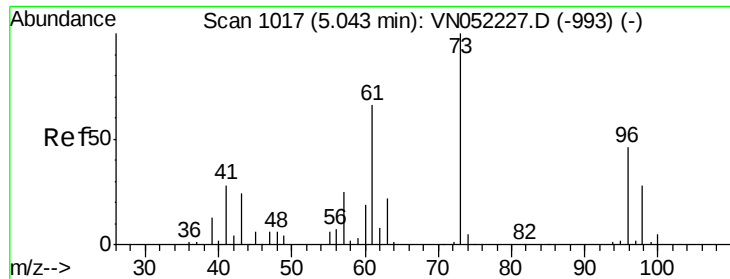
MMDadoda
11/13/2018 2:54:24 PM



#20
Methylene Chloride
Concen: 17.405 ug/l
RT: 4.55 min Scan# 864
Delta R.T. -0.01 min
Lab File: VN052253.D
Acq: 12 Nov 2018 10:46

Tgt Ion: 84 Resp: 64280
Ion Ratio Lower Upper
84 100
49 146.2 114.8 172.2
51 45.3 33.1 49.7
86 66.6 49.7 74.5





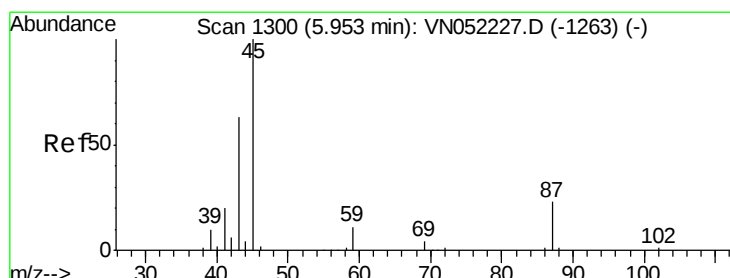
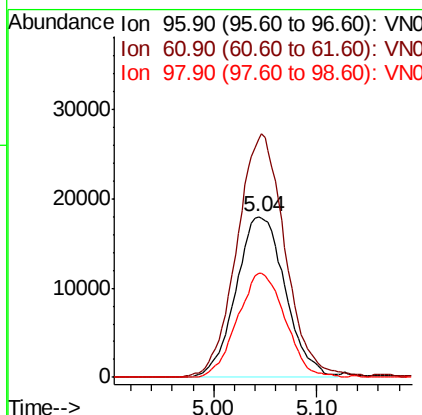
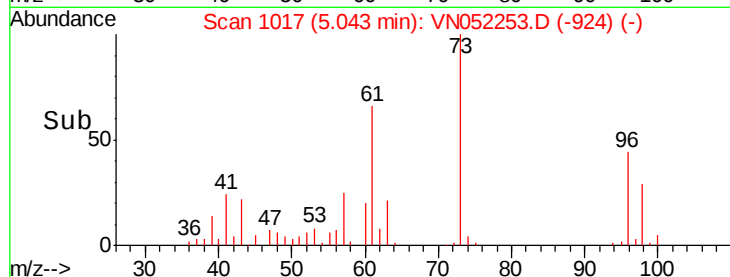
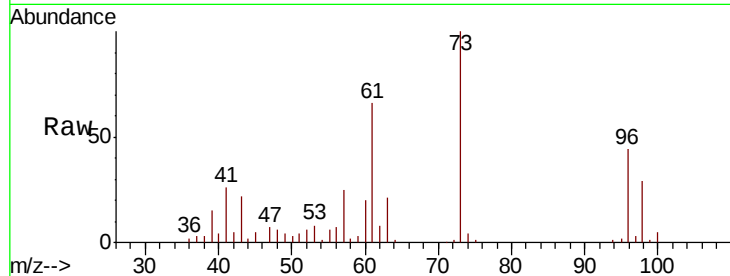
#21
trans-1,2-Dichloroethene
Concen: 17.739 ug/l
RT: 5.04 min Scan# 1017
Delta R.T. 0.00 min
Lab File: VN052253.D
Acq: 12 Nov 2018 10:46

Instrument :
MSVOA_N
ClientSampleId :
VN1112WBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	147.1	115.3	172.9
98	65.2	49.5	74.3

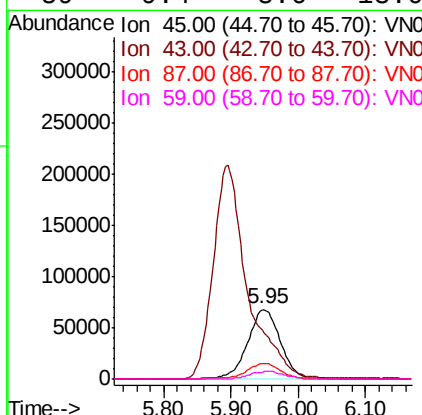
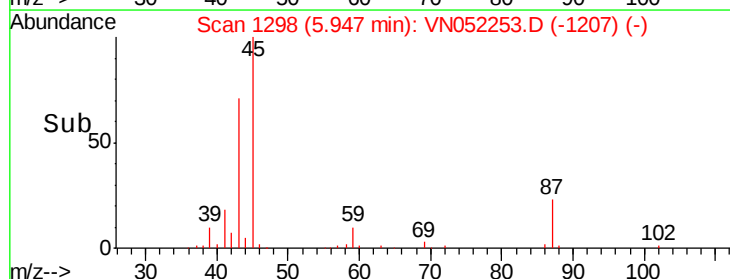
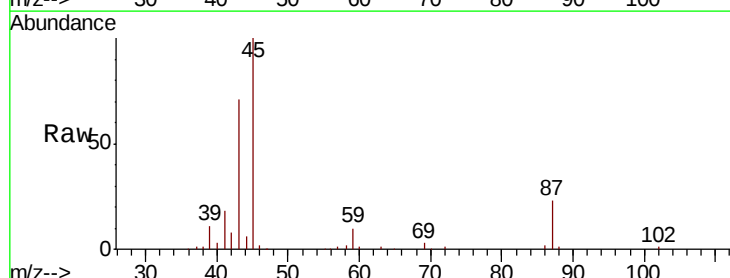
Manual Integrations
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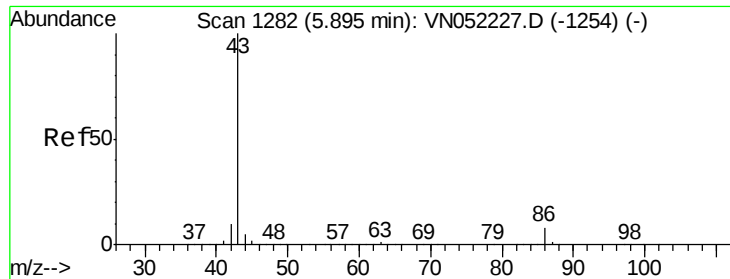
MMDadoda
11/13/2018 2:54:24 PM



#22
Diisopropyl ether
Concen: 17.717 ug/l
RT: 5.95 min Scan# 1298
Delta R.T. -0.01 min
Lab File: VN052253.D
Acq: 12 Nov 2018 10:46

Tgt Ion	Ratio	Lower	Upper
45	100		
43	68.9	50.6	76.0
87	23.0	19.0	28.4
59	9.4	8.6	13.0





#23

Vinyl Acetate

Concen: 83.158 ug/l

RT: 5.90 min Scan# 1282

Delta R.T. 0.00 min

Lab File: VN052253.D

Acq: 12 Nov 2018 10:46

Instrument :

MSVOA_N

ClientSampleId :

VN1112WBS01

Tot Ion: 43 Resp: 741673

Ion Ratio Lower Upper

43 100

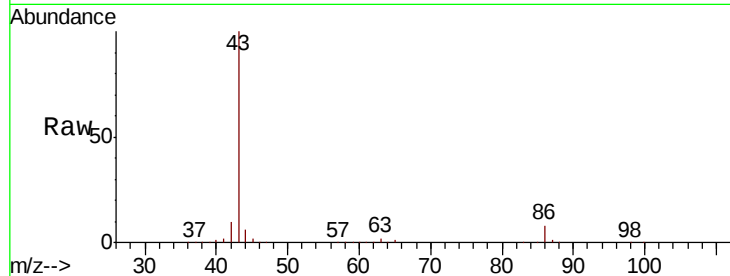
86 8.3 6.7 10.1

Manual Integrations

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MMDadoda

11/13/2018 2:54:24 PM



Abundance Ion 43.00 (42.70 to 43.70): VN052227.D (-1254) (-)

Ion 86.00 (85.70 to 86.70): VN052227.D (-1254) (-)

250000

200000

150000

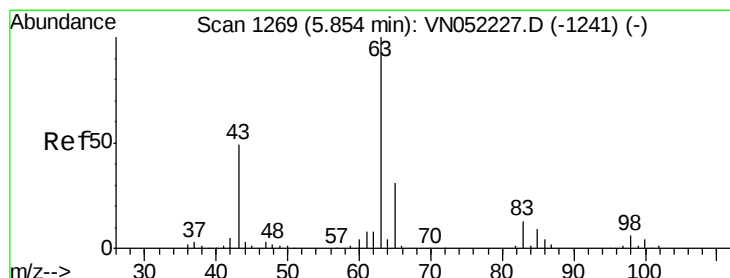
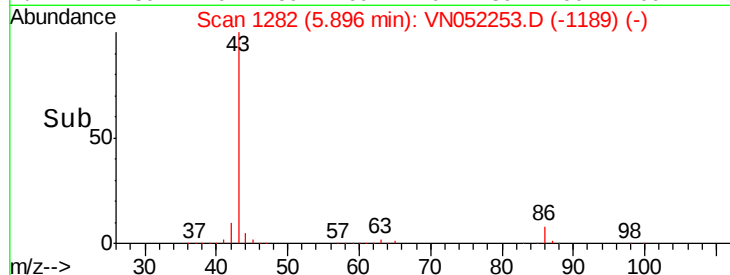
100000

50000

0

5.80 5.90 6.00 6.10

Time-->



#24

1,1-Dichloroethane

Concen: 17.445 ug/l

RT: 5.85 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VN052253.D

Acq: 12 Nov 2018 10:46

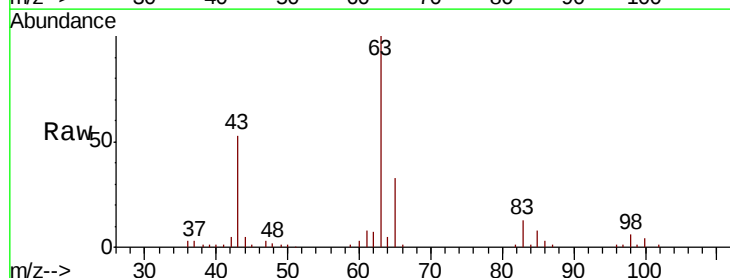
Tgt Ion: 63 Resp: 119768

Ion Ratio Lower Upper

63 100

98 6.1 2.9 8.6

100 3.7 2.1 6.2



Abundance Ion 62.90 (62.60 to 63.60): VN052227.D (-1241) (-)

Ion 97.90 (97.60 to 98.60): VN052227.D (-1241) (-)

Ion 99.90 (99.60 to 100.60): VN052227.D (-1241) (-)

50000

40000

30000

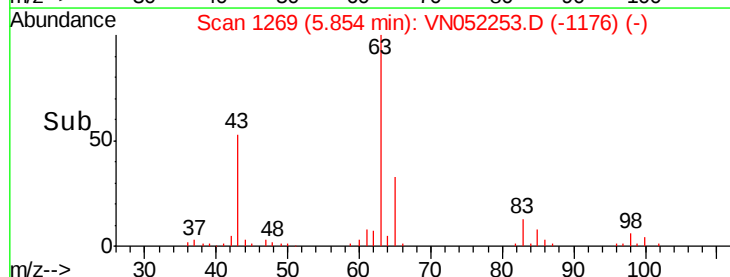
20000

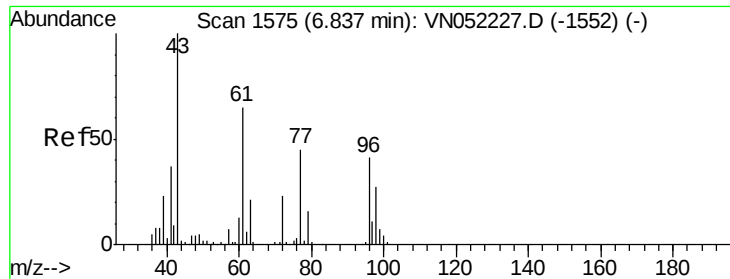
10000

0

5.70 5.80 5.90

Time-->





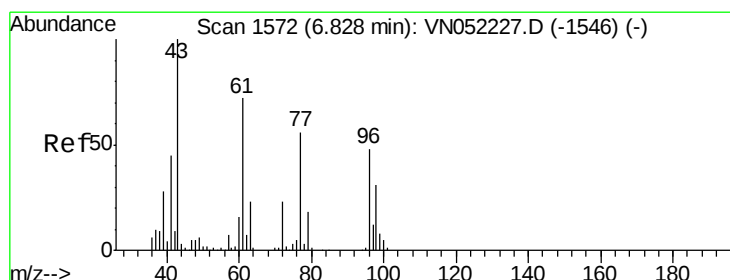
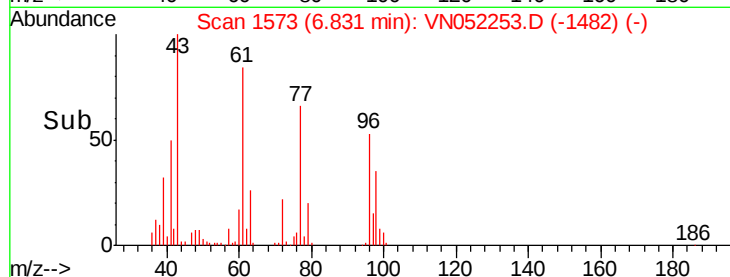
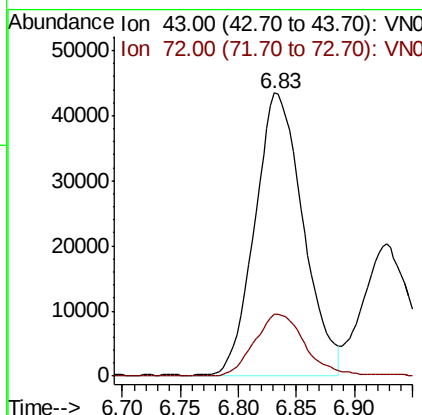
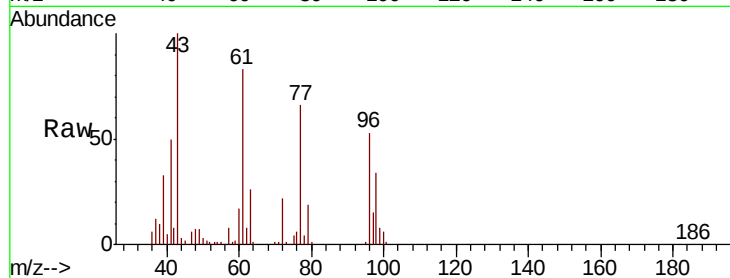
#25
2-Butanone
Concen: 73.166 ug/l
RT: 6.83 min Scan# 1573
Delta R.T. -0.01 min
Lab File: VN052253.D
Acq: 12 Nov 2018 10:46

Instrument :
MSVOA_N
ClientSampleId :
VN1112WBS01

Tot Ion: 43 Resp: 126448
Ion Ratio Lower Upper
43 100
72 21.7 18.6 27.8

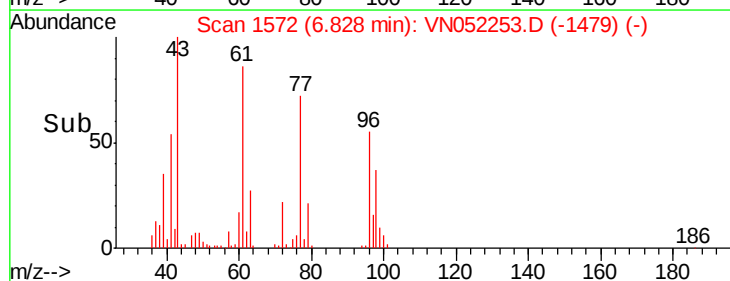
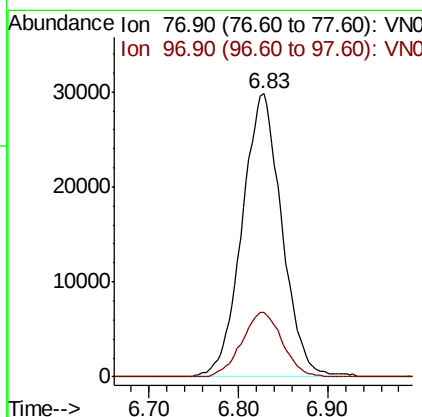
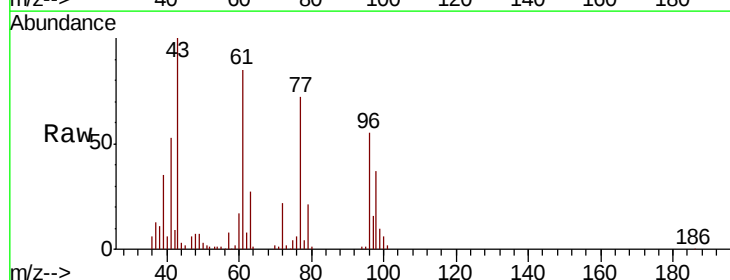
Manual Integrations
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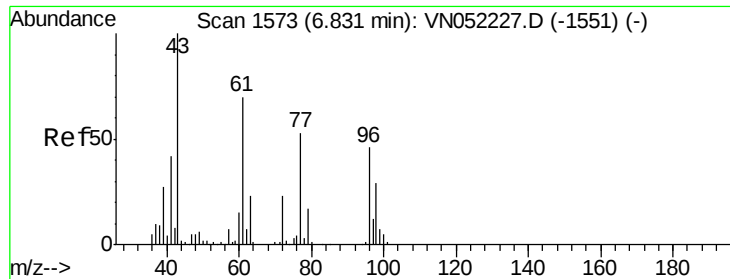
MMDadoda
11/13/2018 2:54:24 PM



#26
2,2-Dichloropropane
Concen: 18.434 ug/l
RT: 6.83 min Scan# 1572
Delta R.T. 0.00 min
Lab File: VN052253.D
Acq: 12 Nov 2018 10:46

Tgt Ion: 77 Resp: 92431
Ion Ratio Lower Upper
77 100
97 23.2 11.2 33.5





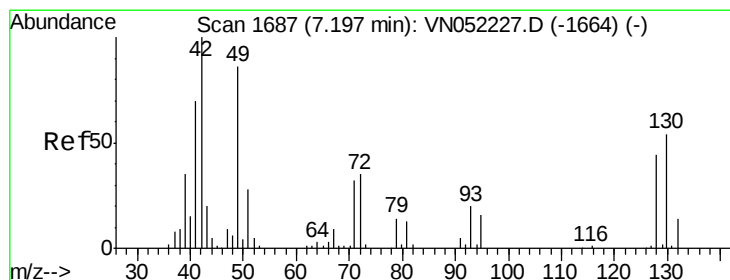
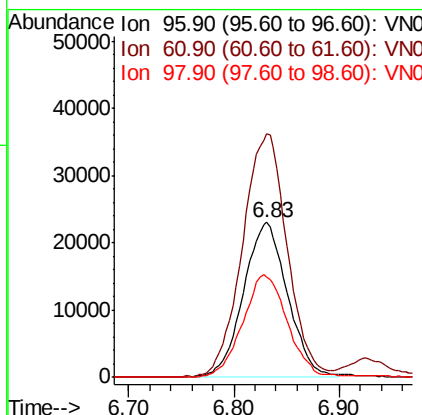
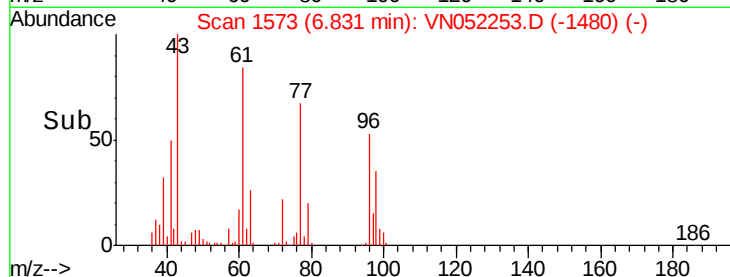
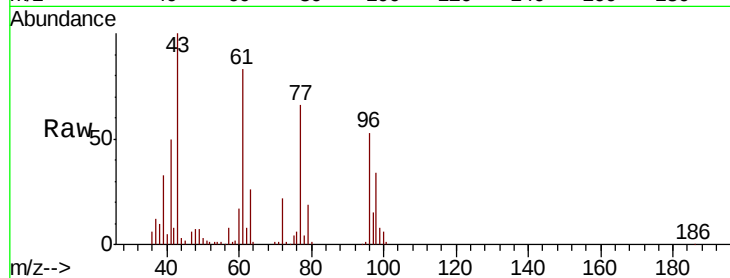
#27
 cis-1,2-Dichloroethene
 Concen: 17.796 ug/l
 RT: 6.83 min Scan# 1573
 Delta R.T. 0.00 min
 Lab File: VN052253.D
 Acq: 12 Nov 2018 10:46

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1112WBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	159.7	0.0	313.4
98	67.4	0.0	129.8

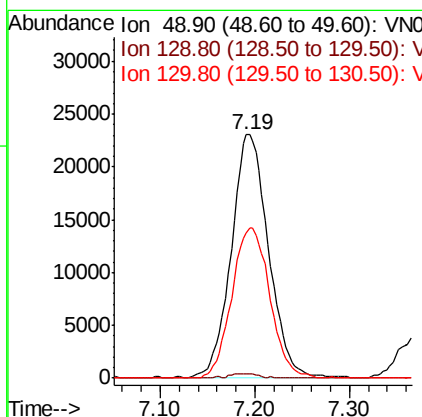
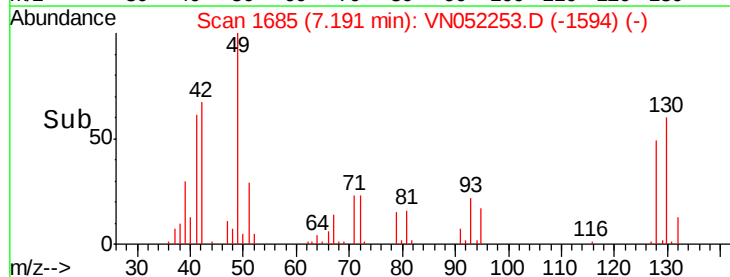
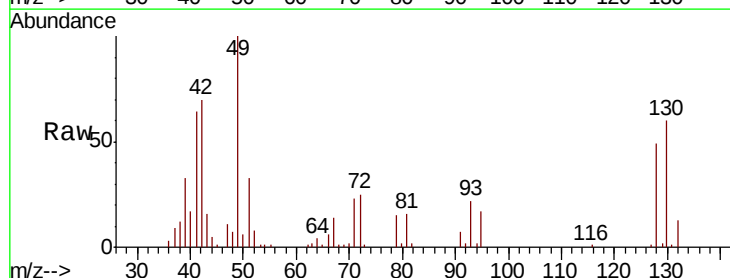
Manual Integrations
 APPROVED

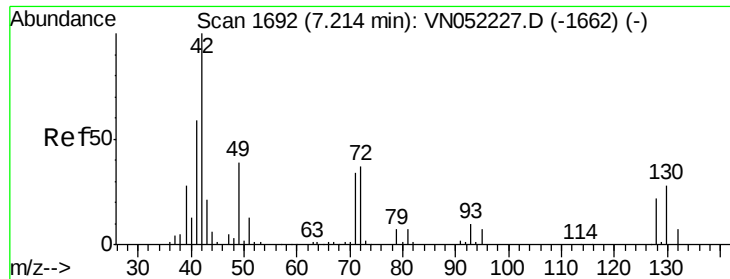
MMDadoda
 11/13/2018 2:54:24 PM



#28
 Bromochloromethane
 Concen: 18.624 ug/l
 RT: 7.19 min Scan# 1685
 Delta R.T. -0.01 min
 Lab File: VN052253.D
 Acq: 12 Nov 2018 10:46

Tgt Ion	Ratio	Lower	Upper
49	100		
129	1.3	0.0	3.8
130	62.6	51.4	77.2





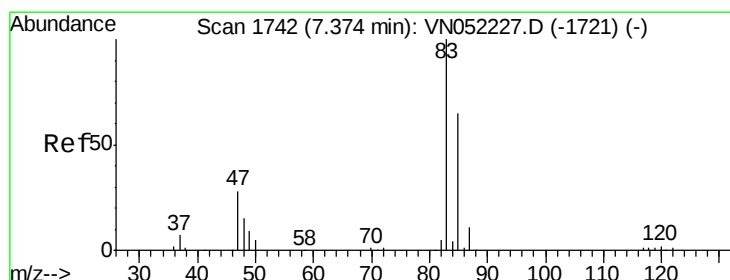
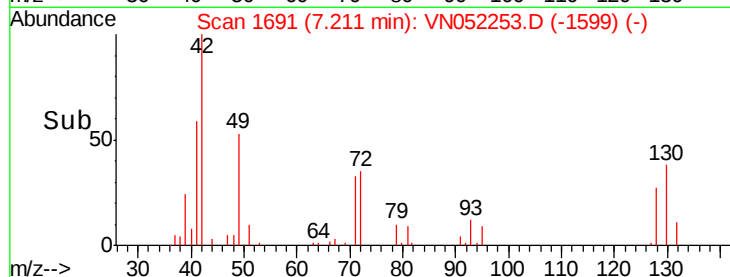
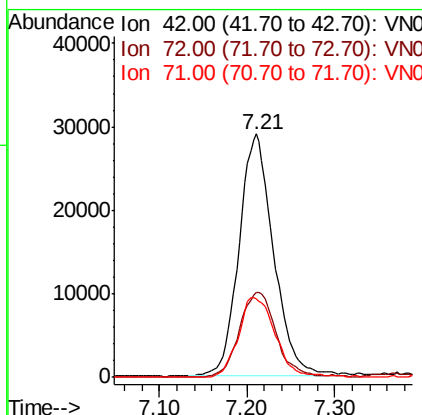
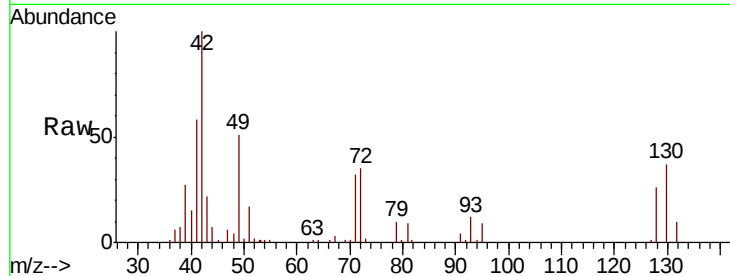
#29
Tetrahydrofuran
Concen: 70.317 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. -0.00 min
Lab File: VN052253.D
Acq: 12 Nov 2018 10:46

Instrument :
MSVOA_N
ClientSampleId :
VN1112WBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	37.5	28.6	43.0
71	34.7	27.1	40.7

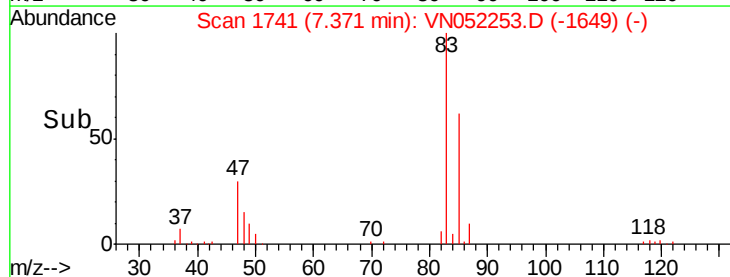
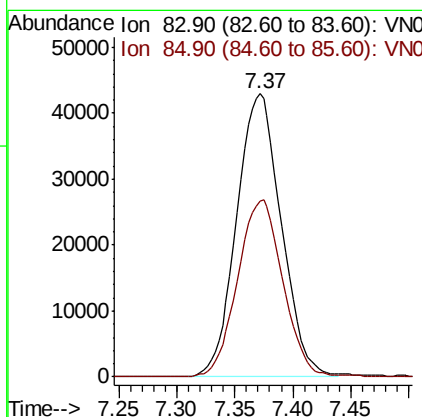
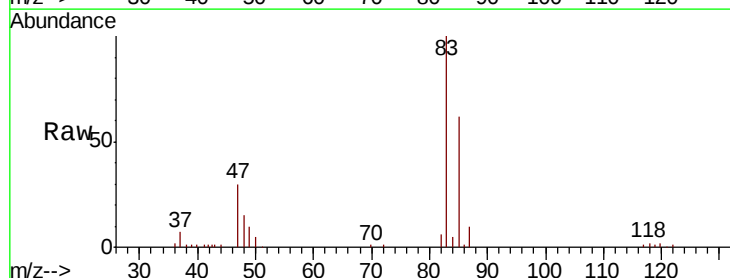
Manual Integrations
APPROVED

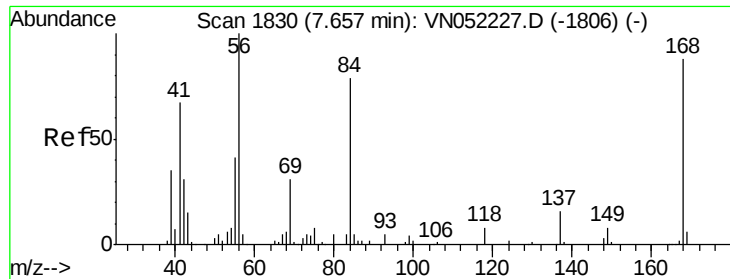
MMDadoda
11/13/2018 2:54:24 PM



#30
Chloroform
Concen: 17.707 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VN052253.D
Acq: 12 Nov 2018 10:46

Tgt Ion	Ratio	Lower	Upper
83	100		
85	62.2	51.8	77.6





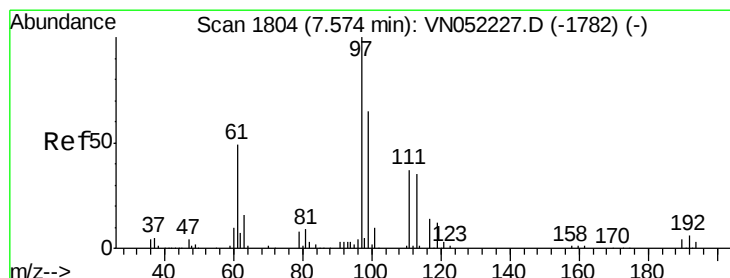
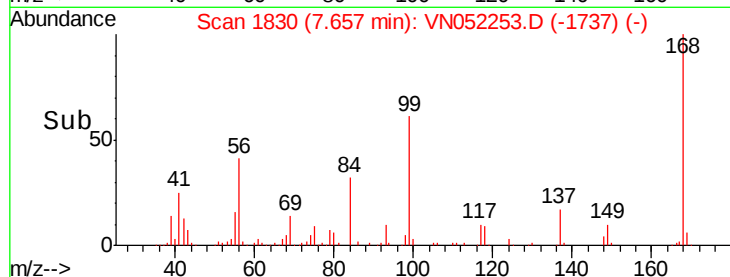
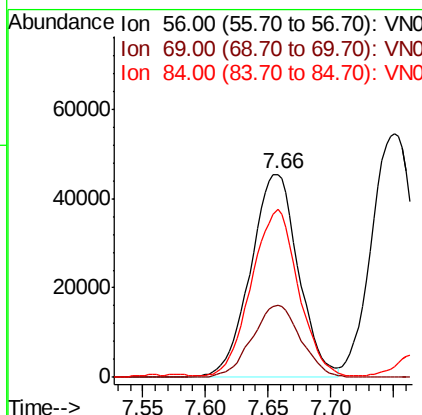
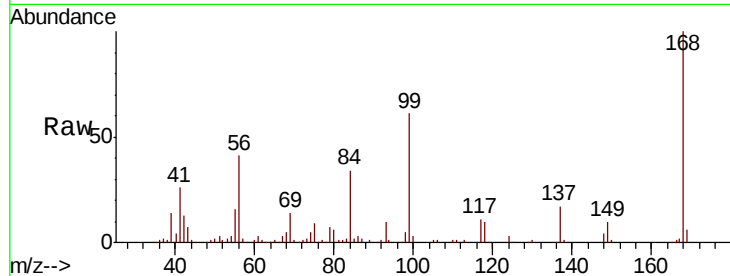
#31
Cyclohexane
Concen: 18.559 ug/l
RT: 7.66 min Scan# 1830
Delta R.T. 0.00 min
Lab File: VN052253.D
Acq: 12 Nov 2018 10:46

Instrument :
MSVOA_N
ClientSampleId :
VN1112WBS01

Tot Ion	Ratio	Lower	Upper
56	100		
69	35.5	24.8	37.2
84	81.5	63.1	94.7

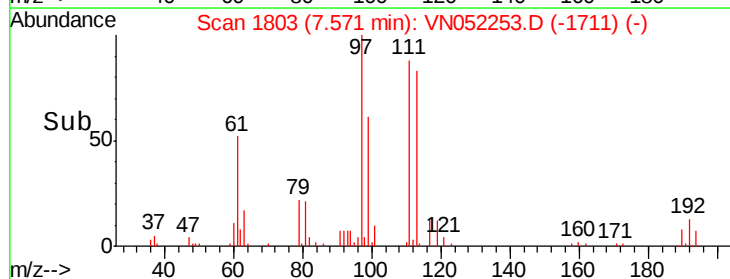
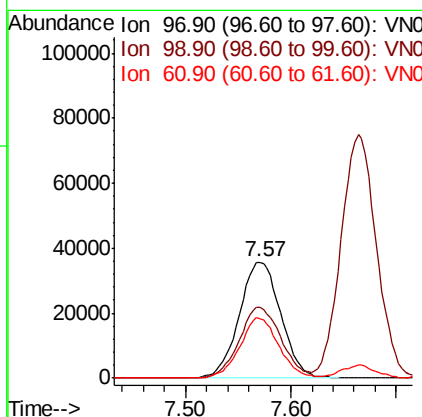
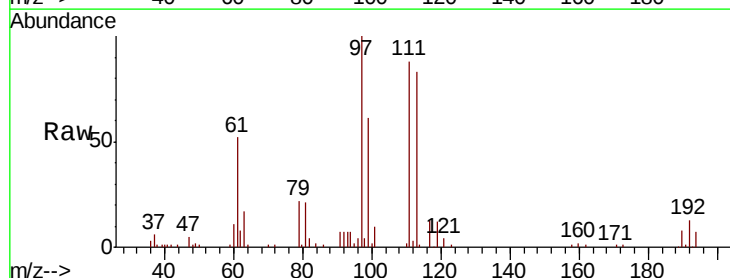
Manual Integrations
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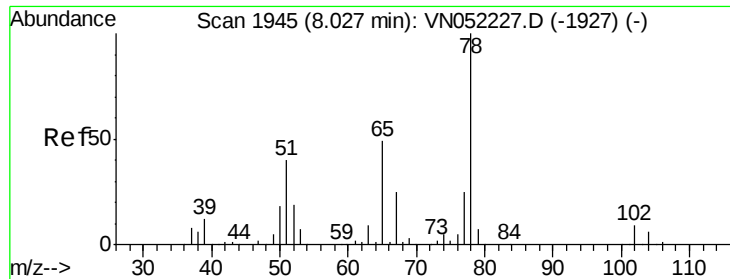
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#32
1,1,1-Trichloroethane
Concen: 18.421 ug/l
RT: 7.57 min Scan# 1803
Delta R.T. -0.00 min
Lab File: VN052253.D
Acq: 12 Nov 2018 10:46

Tgt Ion	Ratio	Lower	Upper
97	100		
99	61.7	51.9	77.9
61	49.0	40.2	60.4





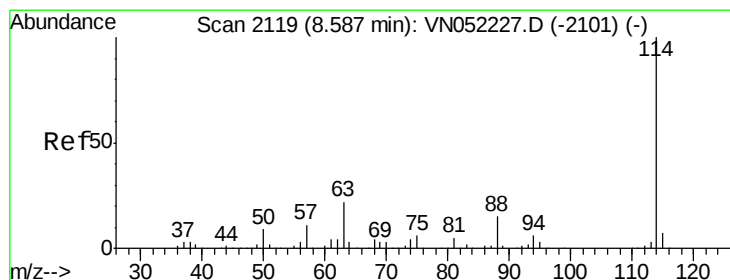
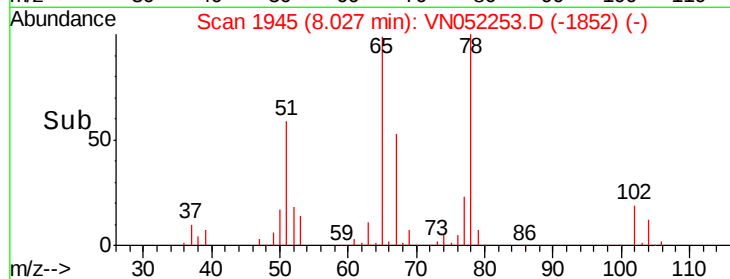
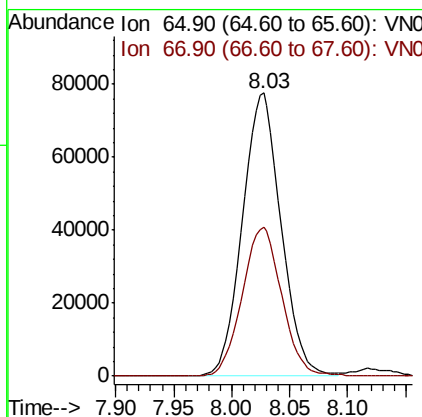
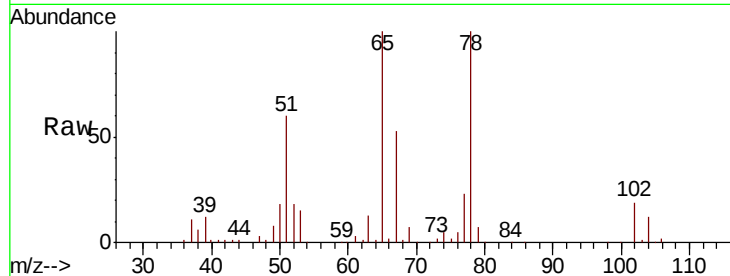
#33
 1,2-Dichloroethane-d4
 Concen: 18.421 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN052253.D
 Acq: 12 Nov 2018 10:46

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1112WBS01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	179779		
67	53.9	0.0	106.6	

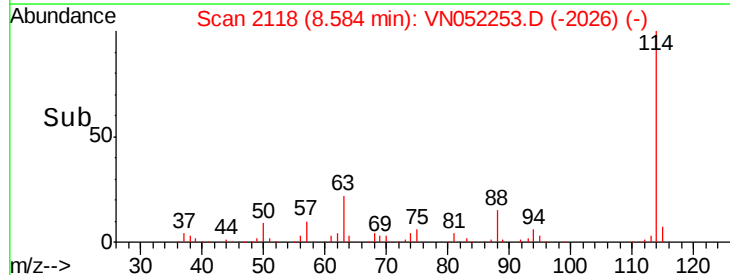
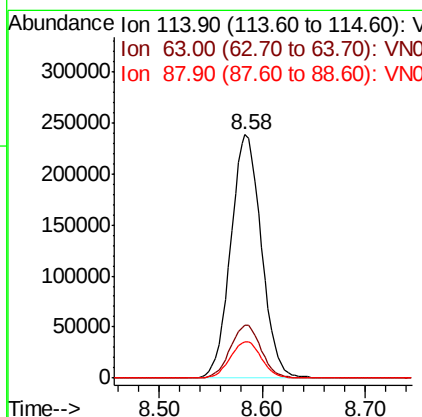
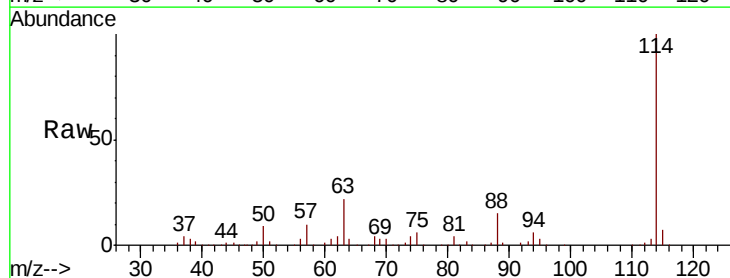
Manual Integrations
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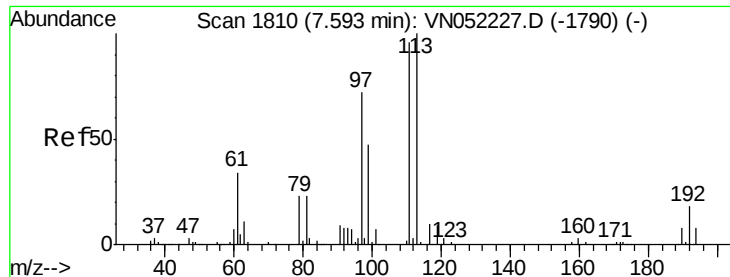
MMDadoda
 11/13/2018 2:54:24 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN052253.D
 Acq: 12 Nov 2018 10:46

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	492955		
63	21.8	0.0	43.4	
88	15.0	0.0	30.2	





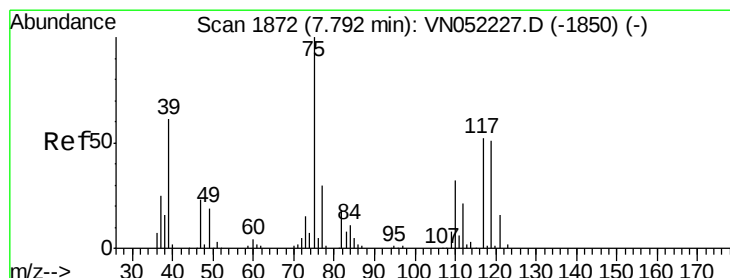
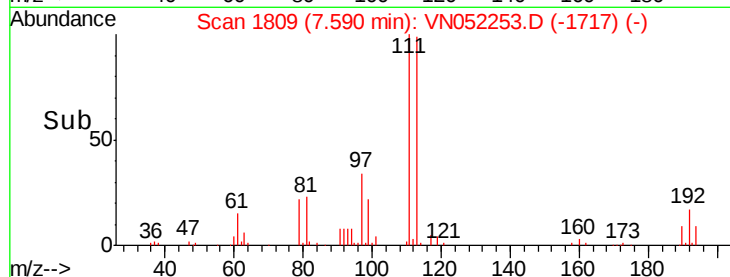
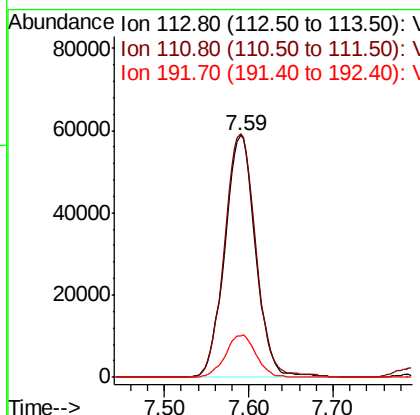
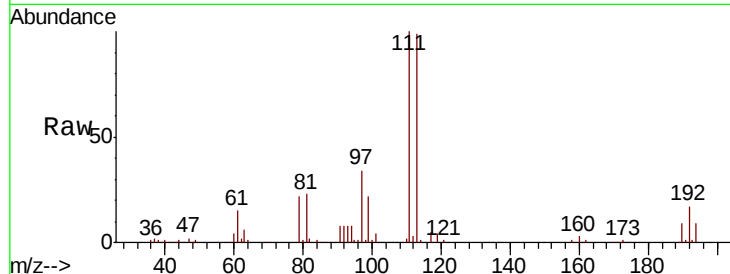
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. -0.00 min
 Lab File: VN052253.D
 Acq: 12 Nov 2018 10:46

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1112WBS01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	149200		
111	101.9	80.2	120.4	
192	17.5	14.1	21.1	

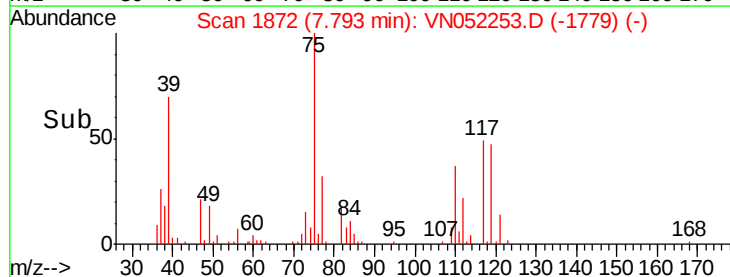
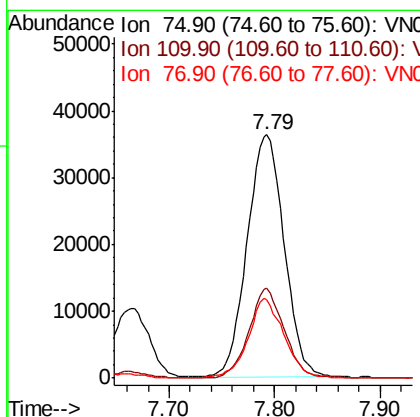
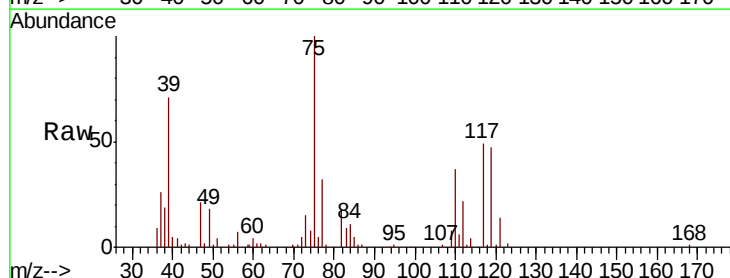
Manual Integrations
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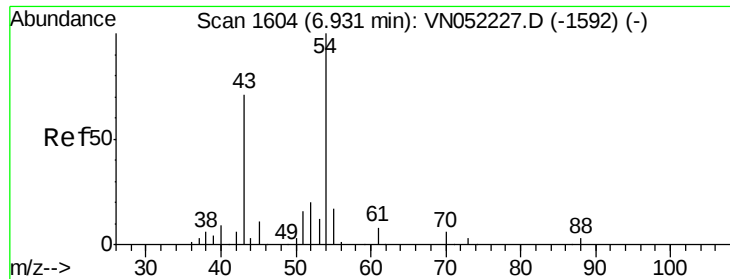
MMDadoda
 11/13/2018 2:54:24 PM



#36
 1,1-Dichloropropene
 Concen: 17.888 ug/l
 RT: 7.79 min Scan# 1872
 Delta R.T. 0.00 min
 Lab File: VN052253.D
 Acq: 12 Nov 2018 10:46

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	89005		
110	35.1	16.4	49.4	
77	31.7	23.9	35.9	





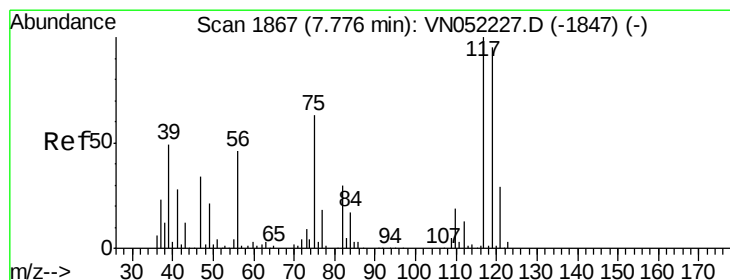
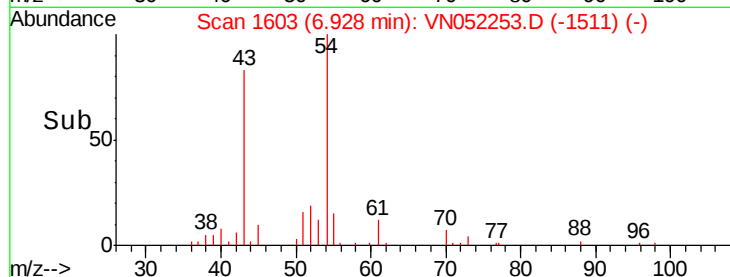
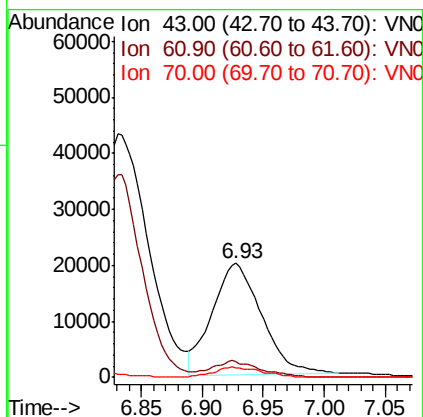
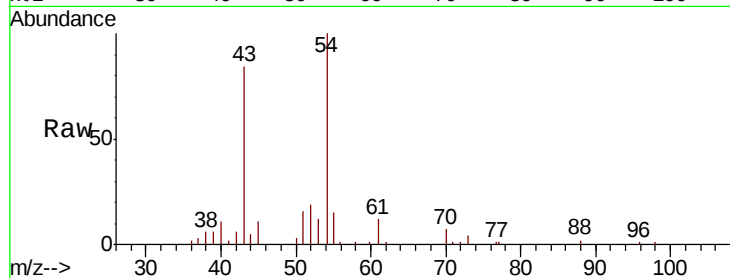
#37
Ethyl Acetate
Concen: 14.934 ug/l
RT: 6.93 min Scan# 1603
Delta R.T. -0.00 min
Lab File: VN052253.D
Acq: 12 Nov 2018 10:46

Instrument :
MSVOA_N
ClientSampleId :
VN1112WBS01

Tot Ion	43	61	70
Resp	55887		
Ratio	100	14.6	8.7
Lower		10.0	6.9
Upper		15.0	10.3

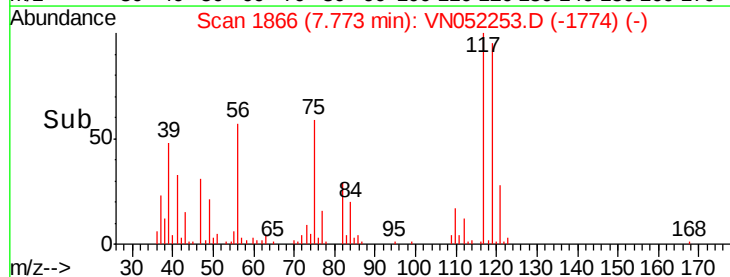
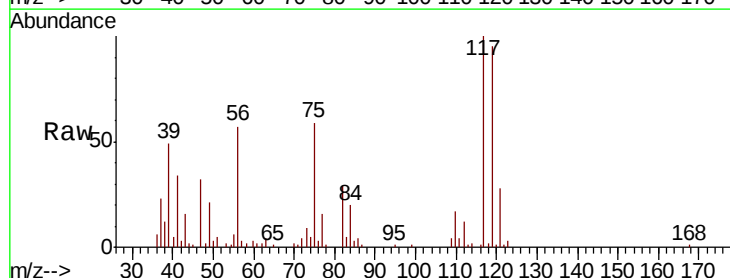
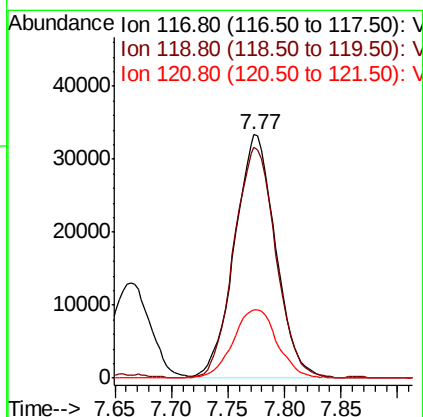
Manual Integrations
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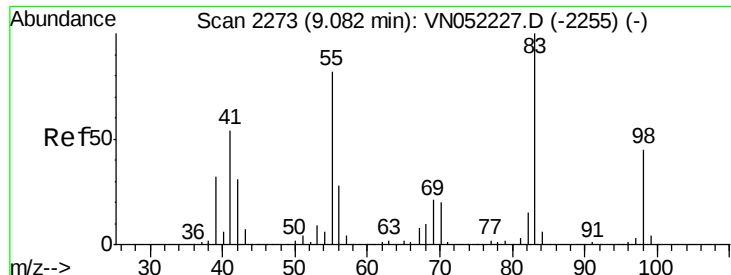
MMDadoda
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#38
Carbon Tetrachloride
Concen: 18.655 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. -0.00 min
Lab File: VN052253.D
Acq: 12 Nov 2018 10:46

Tgt Ion	117	119	121
Resp	84115		
Ratio	100	95.0	28.3
Lower		75.8	23.4
Upper		113.8	35.2





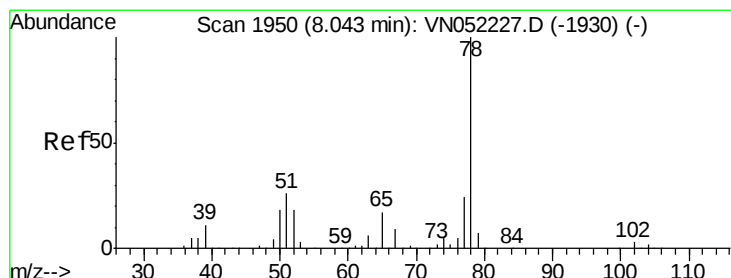
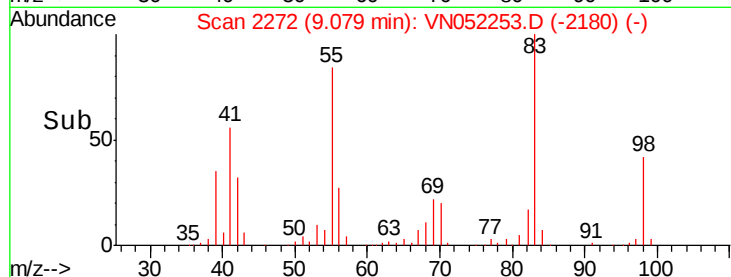
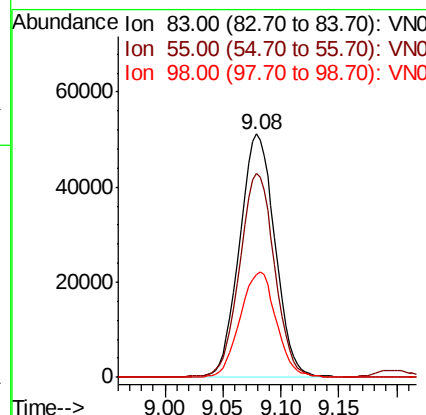
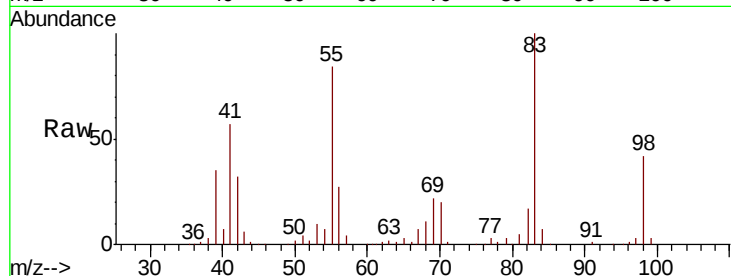
#39
Methvlcvclohexane
Concen: 19.168 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VN052253.D
Acq: 12 Nov 2018 10:46

Instrument :
MSVOA_N
ClientSampleId :
VN1112WBS01

Tot Ion	83.00	Resp	108785
Ion Ratio	Lower	Upper	
83	100		
55	83.6	65.2	97.8
98	42.2	36.3	54.5

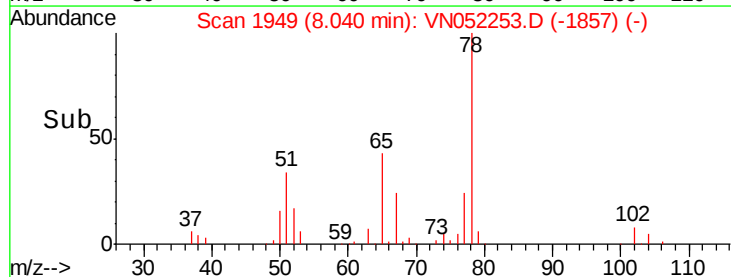
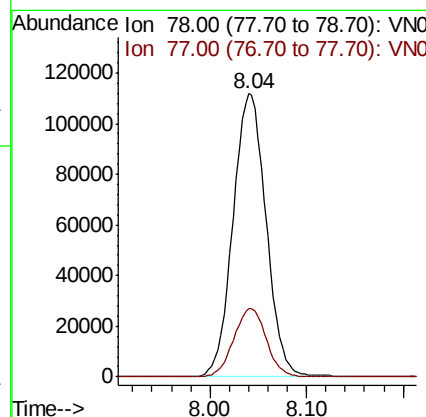
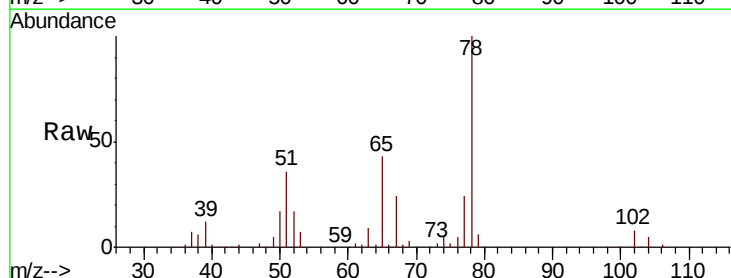
Manual Integrations
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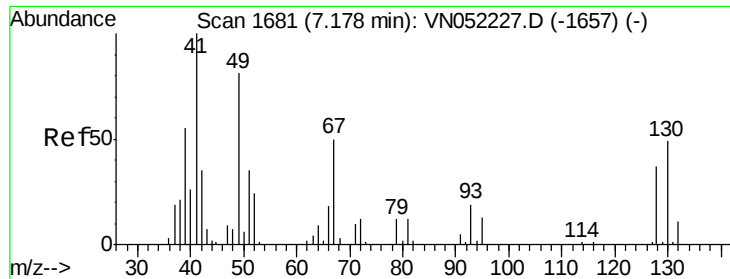
MMDadoda
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#40
Benzene
Concen: 18.651 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. -0.00 min
Lab File: VN052253.D
Acq: 12 Nov 2018 10:46

Tgt Ion	78.00	Resp	265706
Ion Ratio	Lower	Upper	
78	100		
77	24.3	19.2	28.8





#41

Methacrylonitrile

Concen: 9.258 ug/l m

RT: 7.17 min Scan# 1678

Delta R.T. -0.01 min

Lab File: VN052253.D

Acq: 12 Nov 2018 10:46

Instrument :

MSVOA_N

ClientSampleId :

VN1112WBS01

Tot Ion: 41 Resp: 20132

Ion Ratio Lower Upper

41 100

39 0.0 47.8 71.6#

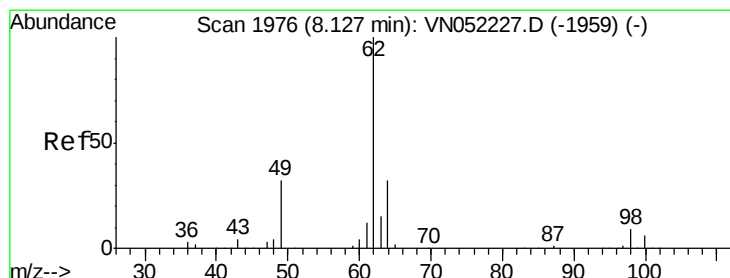
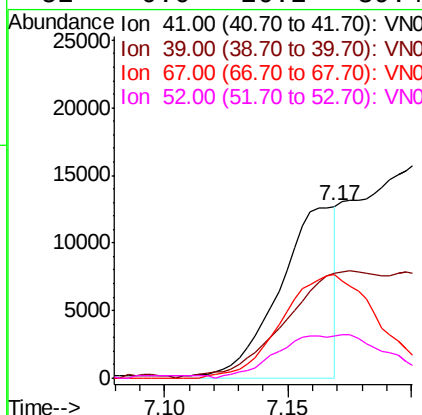
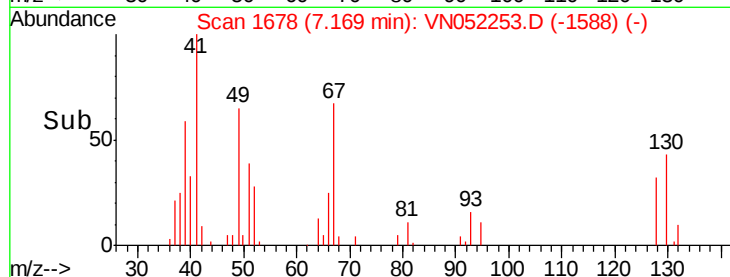
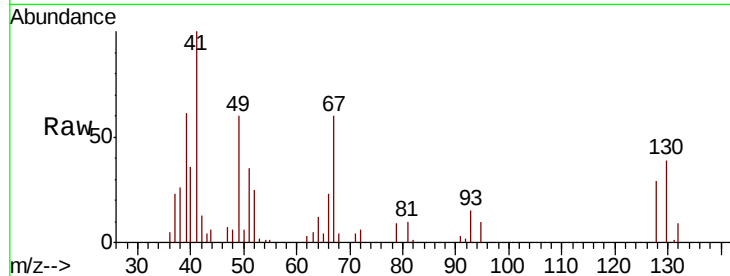
67 0.0 54.3 81.5#

52 0.0 26.2 39.4#

Manual Integrations
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11/13/2018 2:54:24 PM



#42

1,2-Dichloroethane

Concen: 17.513 ug/l

RT: 8.12 min Scan# 1975

Delta R.T. -0.00 min

Lab File: VN052253.D

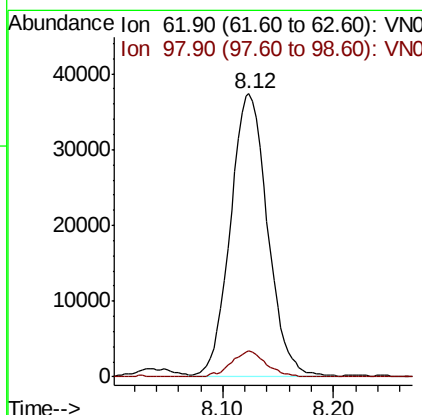
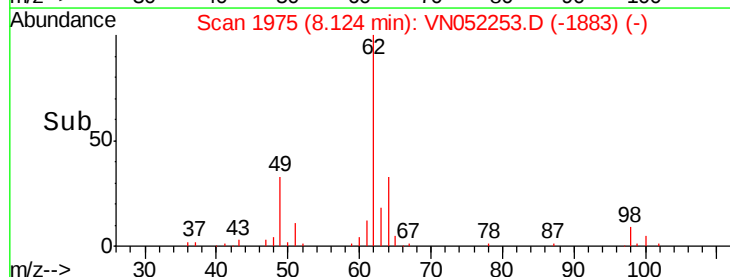
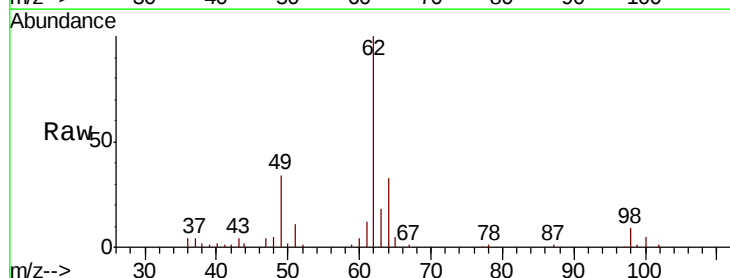
Acq: 12 Nov 2018 10:46

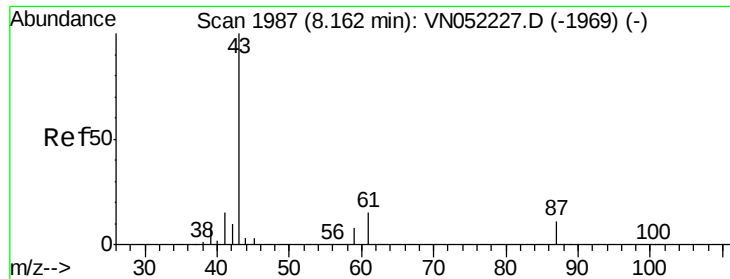
Tgt Ion: 62 Resp: 87537

Ion Ratio Lower Upper

62 100

98 8.4 0.0 16.4





#43

Isopropyl Acetate

Concen: 15.656 ug/l

RT: 8.16 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN052253.D

Acq: 12 Nov 2018 10:46

Instrument :

MSVOA_N

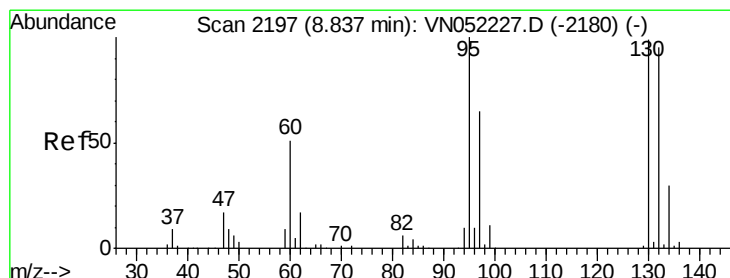
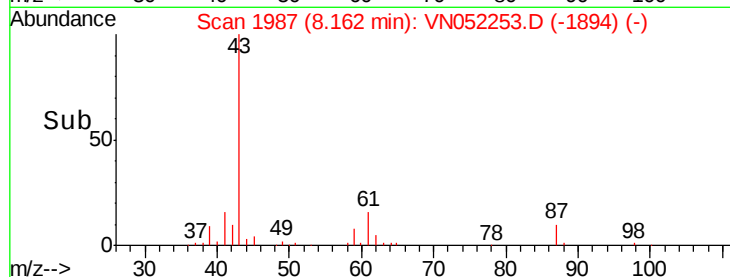
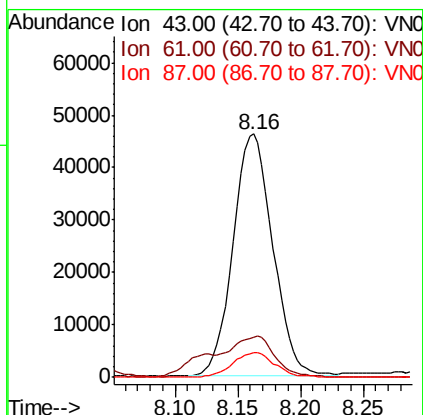
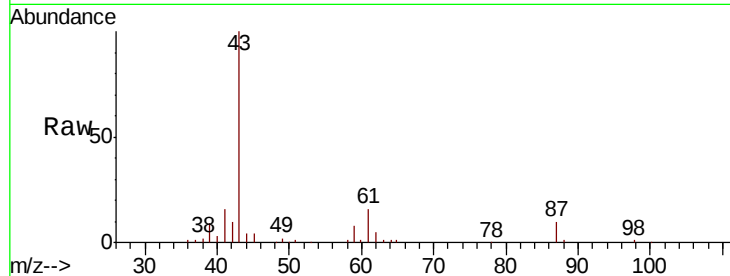
ClientSampleId :

VN1112WBS01

Tot Ion:	43	Resp:	102123
Ion	Ratio	Lower	Upper
43	100		
61	16.7	14.2	21.4
87	10.8	8.4	12.6

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#44

Trichloroethene

Concen: 18.227 ug/l

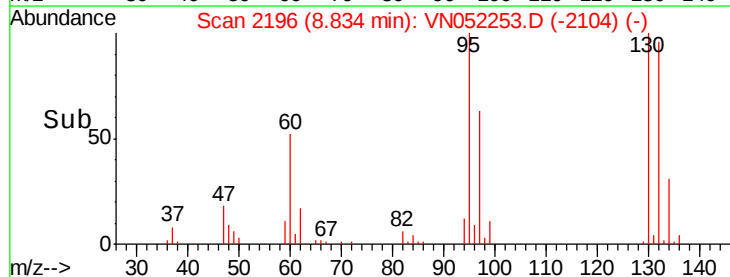
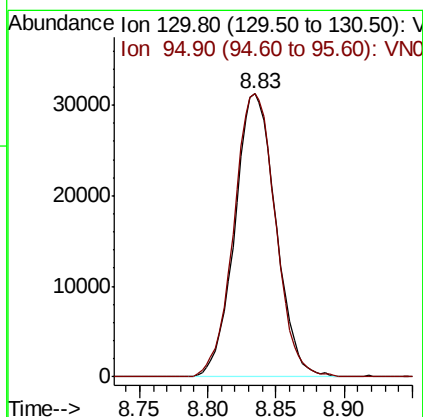
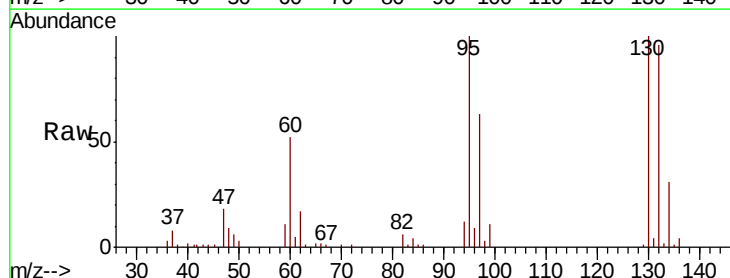
RT: 8.83 min Scan# 2196

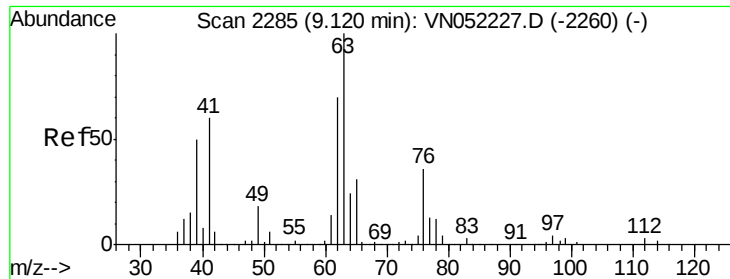
Delta R.T. -0.00 min

Lab File: VN052253.D

Acq: 12 Nov 2018 10:46

Tgt Ion:	130	Resp:	65067
Ion	Ratio	Lower	Upper
130	100		
95	100.1	0.0	201.6





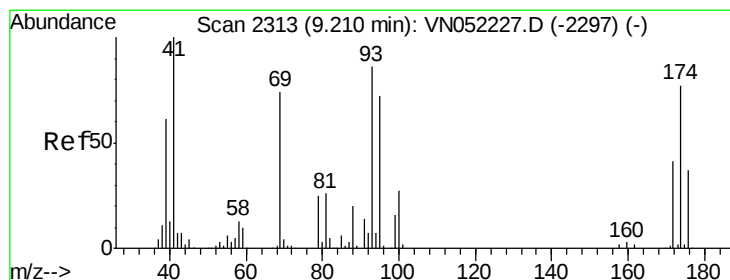
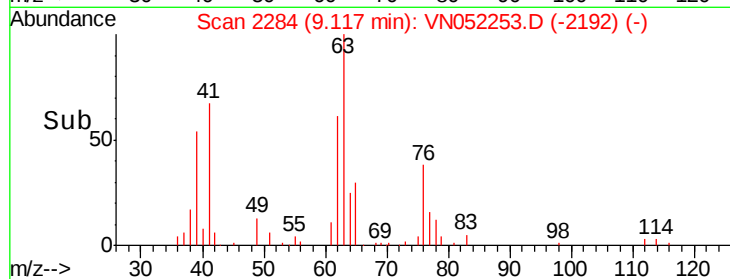
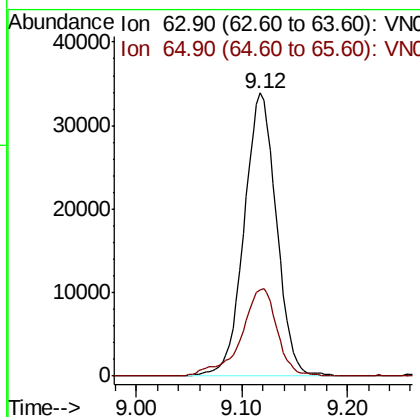
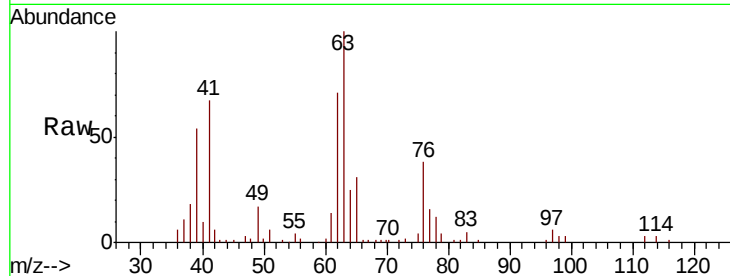
#45
 1,2-Dichloropropane
 Concen: 18.191 ug/l
 RT: 9.12 min Scan# 2284
 Delta R.T. -0.00 min
 Lab File: VN052253.D
 Acq: 12 Nov 2018 10:46

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1112WBS01

Tot Ion: 63 Resp: 72399
 Ion Ratio Lower Upper
 63 100
 65 30.5 24.8 37.2

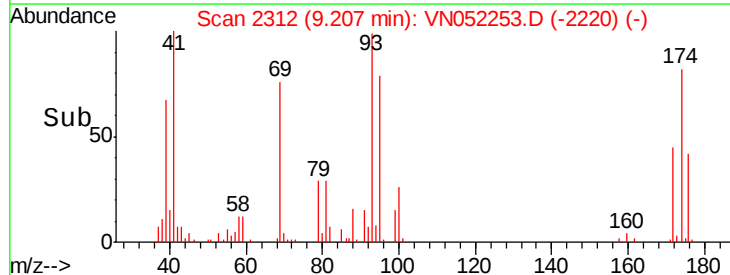
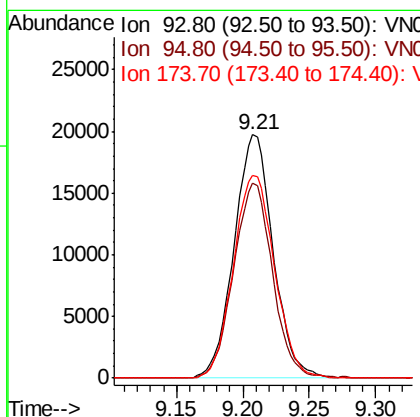
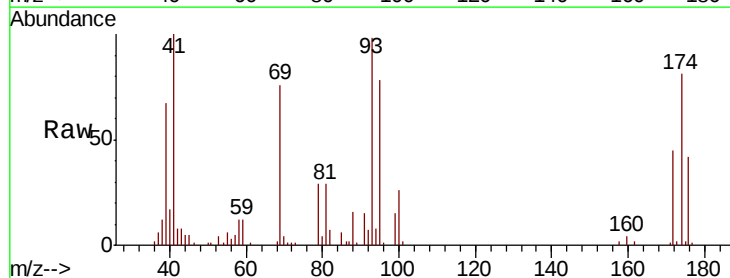
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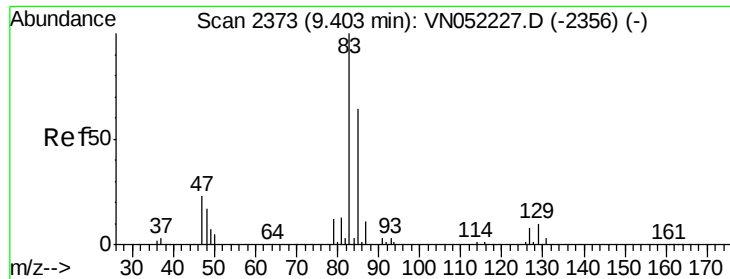
MMDadoda
 11/13/2018 2:54:24 PM



#46
 Dibromomethane
 Concen: 17.684 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. -0.00 min
 Lab File: VN052253.D
 Acq: 12 Nov 2018 10:46

Tgt Ion: 93 Resp: 40425
 Ion Ratio Lower Upper
 93 100
 95 80.1 67.0 100.4
 174 87.9 72.1 108.1





#47

Bromodichloromethane

Concen: 17.764 ug/l

RT: 9.40 min Scan# 2372

Delta R.T. -0.00 min

Lab File: VN052253.D

Acq: 12 Nov 2018 10:46

Instrument :

MSVOA_N

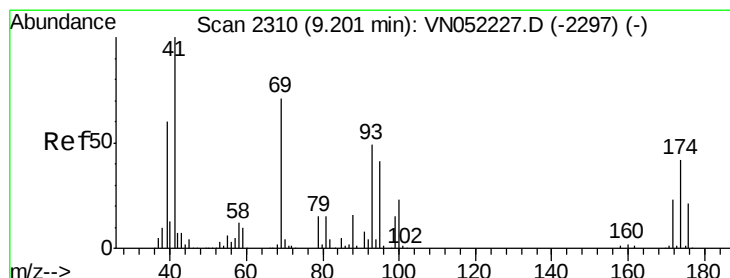
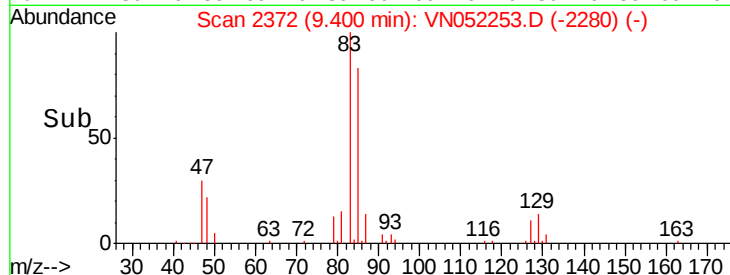
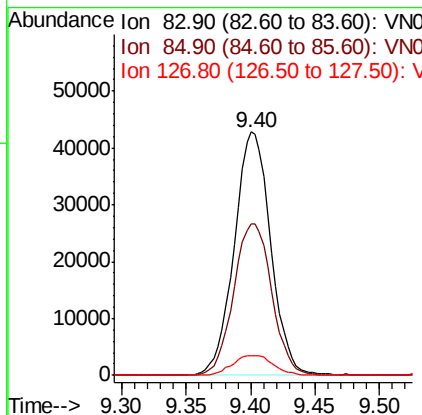
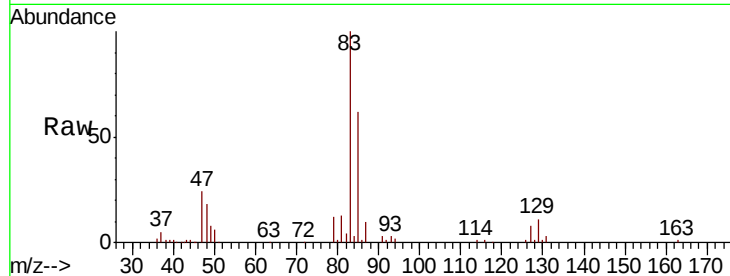
ClientSampleId :

VN1112WBS01

Tot Ion:	83	Resp:	84135
Ion Ratio	Lower	Upper	
83	100		
85	62.2	51.2	76.8
127	8.0	6.2	9.4

Manual Integrations
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MMDadoda
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#48

Methyl methacrylate

Concen: 15.312 ug/l

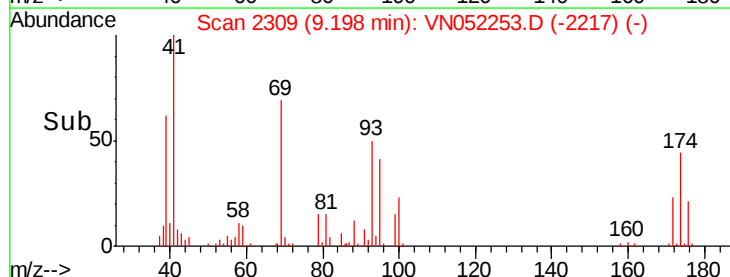
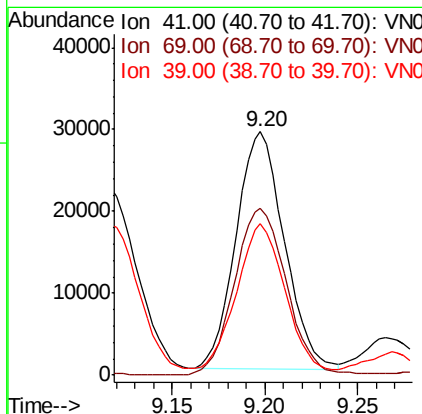
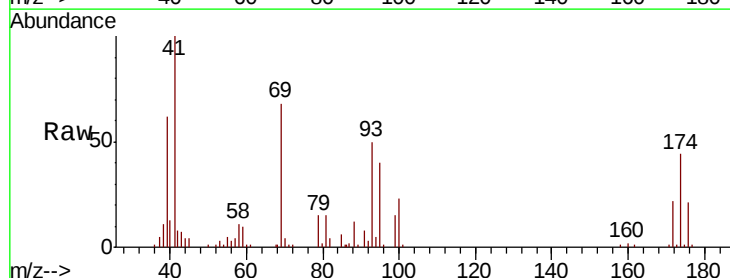
RT: 9.20 min Scan# 2309

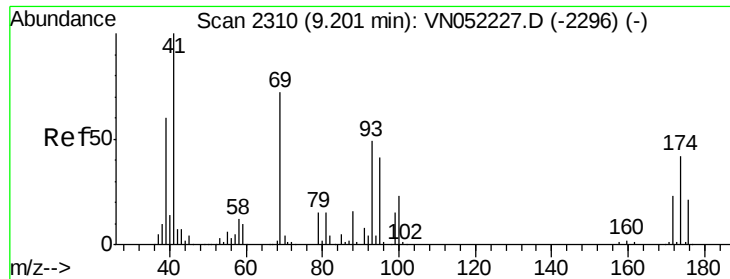
Delta R.T. -0.00 min

Lab File: VN052253.D

Acq: 12 Nov 2018 10:46

Tgt Ion:	41	Resp:	52626
Ion Ratio	Lower	Upper	
41	100		
69	75.4	58.8	88.2
39	60.3	50.7	76.1





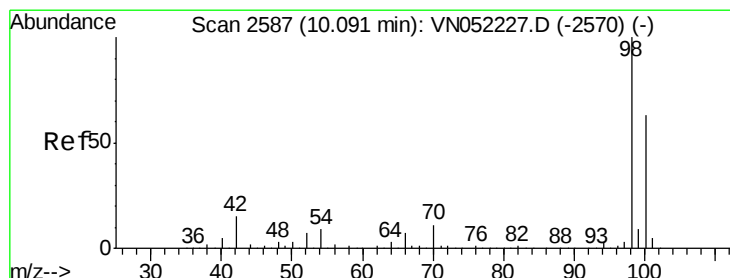
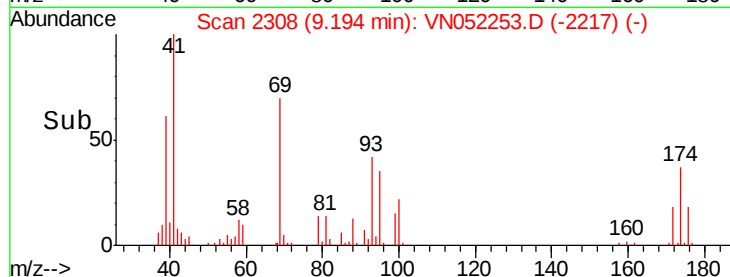
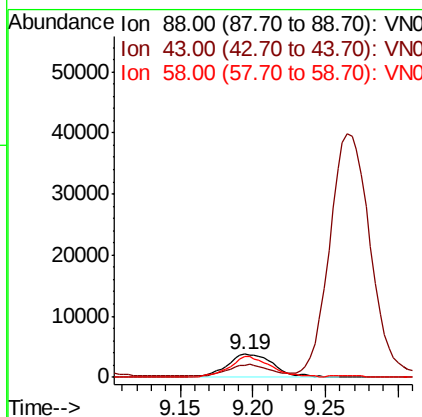
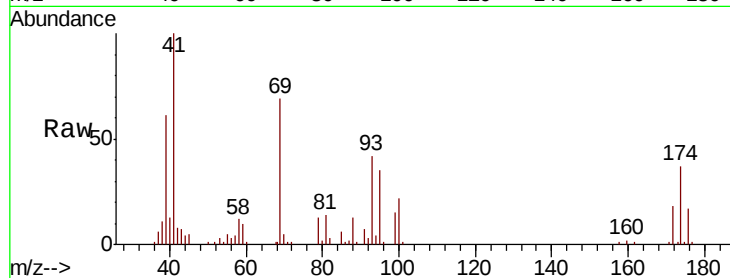
#49
1,4-Dioxane
Concen: 308.514 ug/l
RT: 9.19 min Scan# 2308
Delta R.T. -0.01 min
Lab File: VN052253.D
Acq: 12 Nov 2018 10:46

Instrument :
MSVOA_N
ClientSampleId :
VN1112WBS01

Tot Ion	Ratio	Lower	Upper
88	100		
43	43.3	32.5	48.7
58	80.4	58.2	87.4

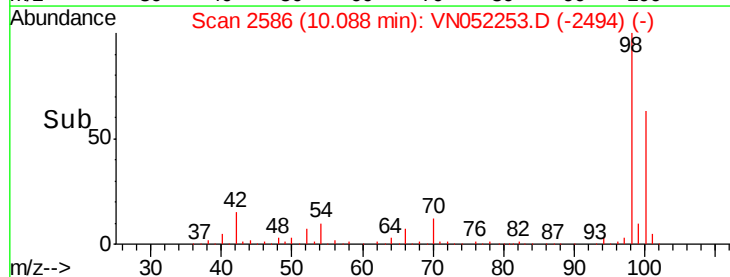
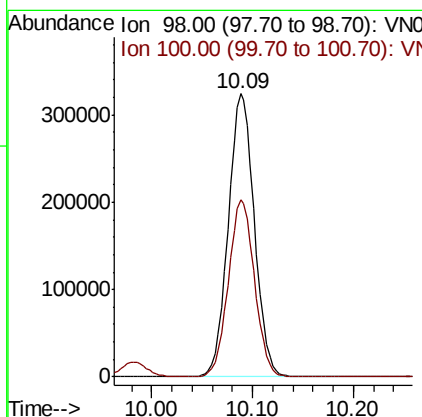
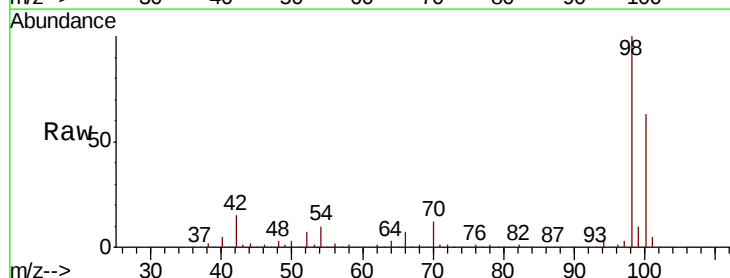
Manual Integrations
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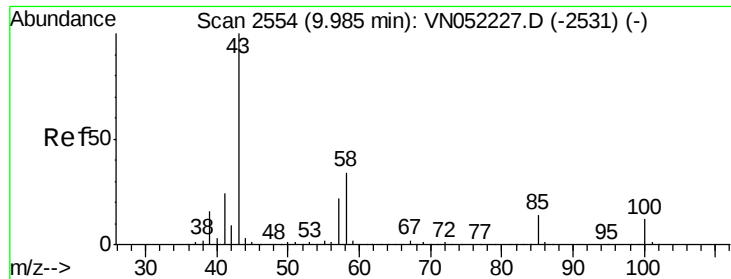
MMDadoda
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#50
Toluene-d8
Concen: 308.514 ug/l
RT: 10.09 min Scan# 2586
Delta R.T. -0.00 min
Lab File: VN052253.D
Acq: 12 Nov 2018 10:46

Tgt Ion	Ratio	Lower	Upper
98	100		
100	62.9	50.2	75.2





#51

4-Methyl-2-Pentanone

Concen: 76.888 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN052253.D

Acq: 12 Nov 2018 10:46

Instrument :

MSVOA_N

ClientSampleId :

VN1112WBS01

Tot Ion: 43 Resp: 276980

Ion Ratio Lower Upper

43 100

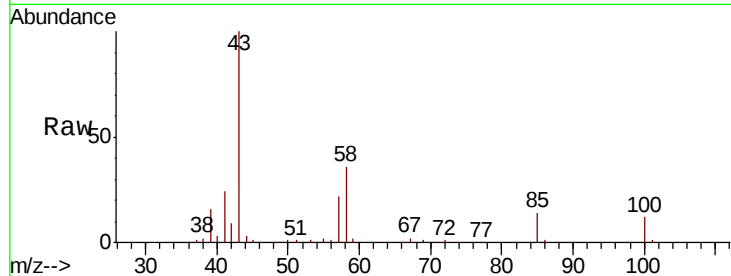
58 34.4 27.4 41.0

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

150000

100000

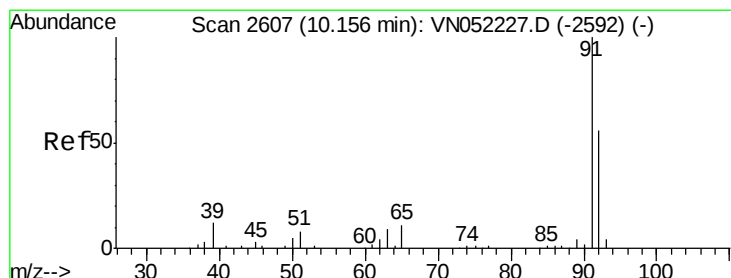
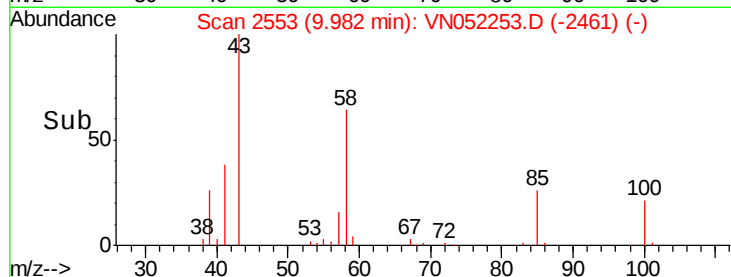
50000

0

9.90

10.00

Time-->



#52

Toluene

Concen: 18.473 ug/l

RT: 10.15 min Scan# 2606

Delta R.T. -0.00 min

Lab File: VN052253.D

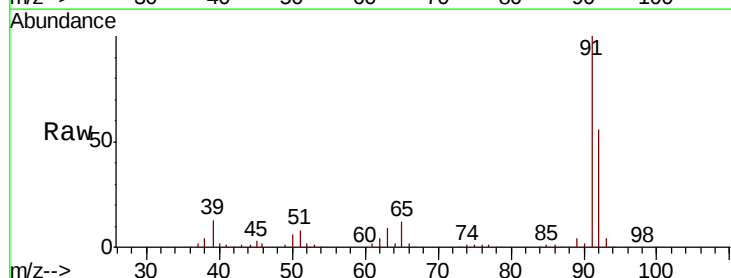
Acq: 12 Nov 2018 10:46

Tgt Ion: 92 Resp: 158747

Ion Ratio Lower Upper

92 100

91 177.3 142.5 213.7



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0

150000

100000

50000

0

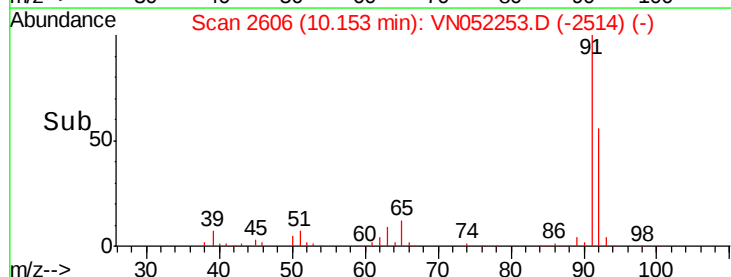
10.05

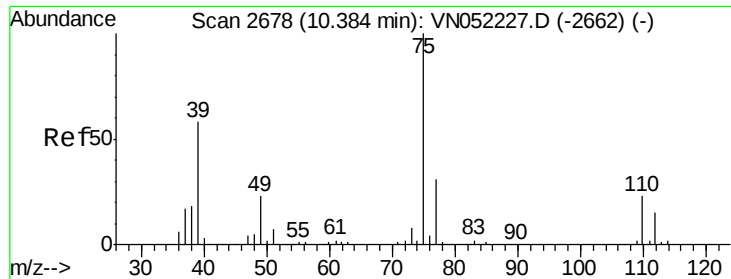
10.10

10.15

10.20

Time-->





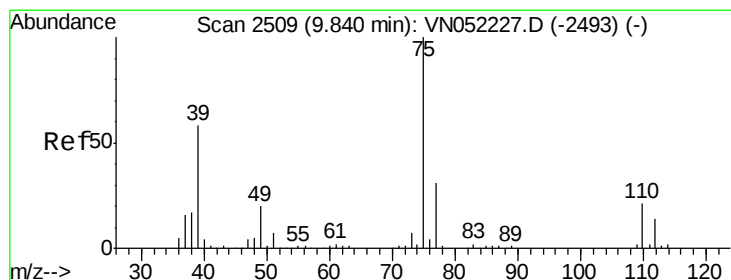
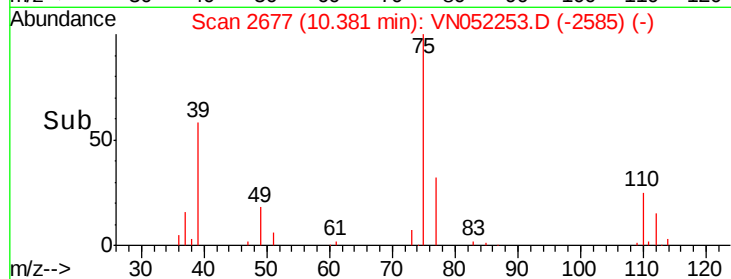
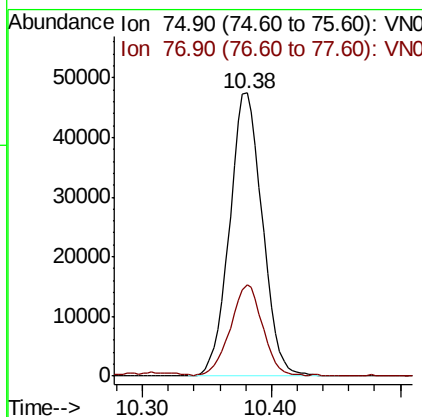
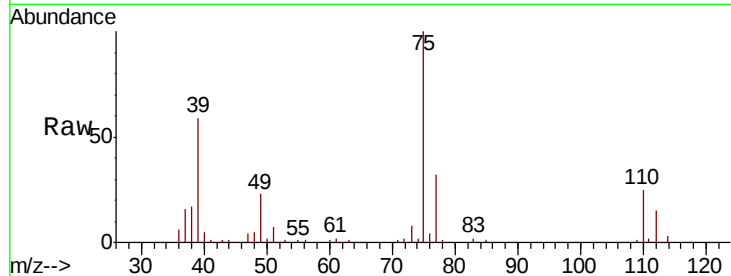
#53
t-1,3-Dichloropropene
Concen: 17.916 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. -0.00 min
Lab File: VN052253.D
Acq: 12 Nov 2018 10:46

Instrument :
MSVOA_N
ClientSampleId :
VN1112WBS01

Tot Ion: 75 Resp: 83736
Ion Ratio Lower Upper
75 100
77 31.9 24.6 36.8

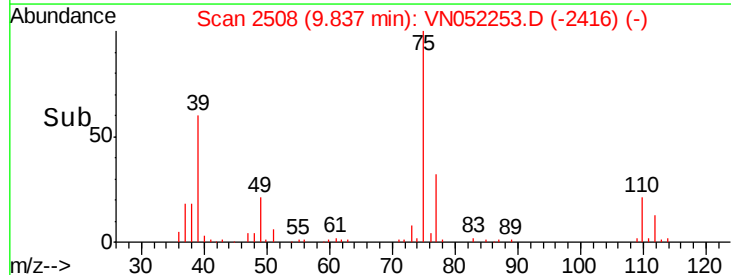
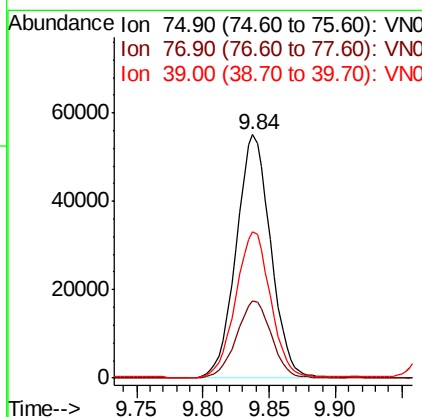
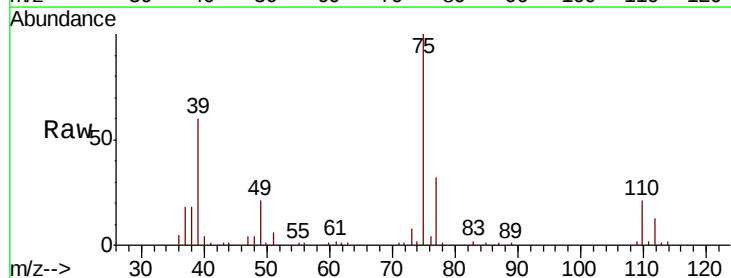
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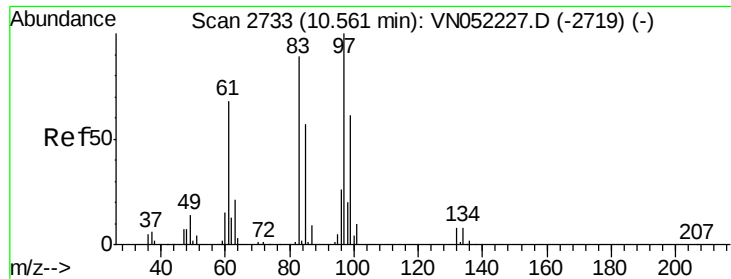
MMDadoda
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#54
cis-1,3-Dichloropropene
Concen: 18.078 ug/l
RT: 9.84 min Scan# 2508
Delta R.T. -0.00 min
Lab File: VN052253.D
Acq: 12 Nov 2018 10:46

Tgt Ion: 75 Resp: 99742
Ion Ratio Lower Upper
75 100
77 31.6 25.2 37.8
39 59.9 46.6 70.0





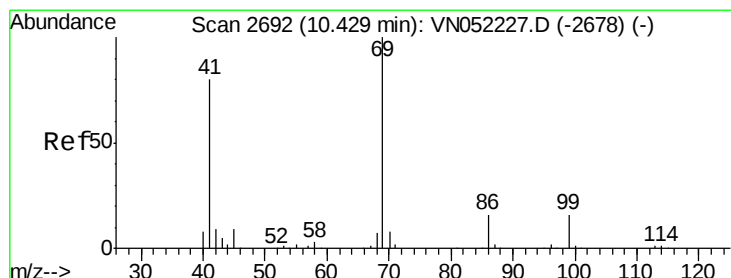
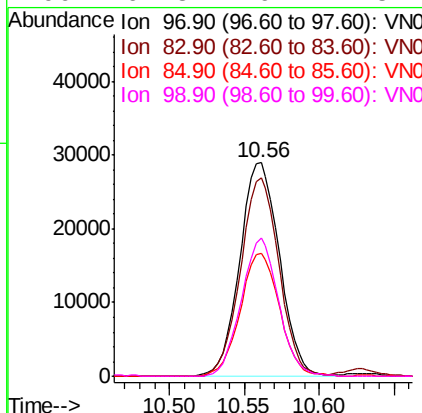
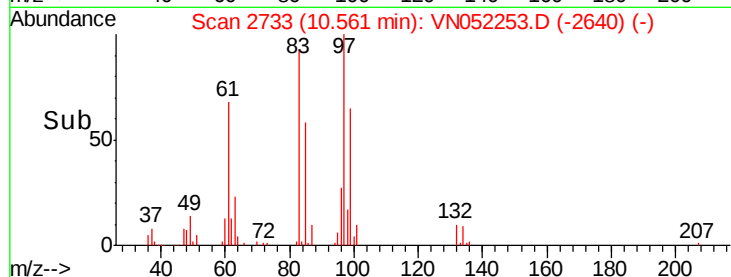
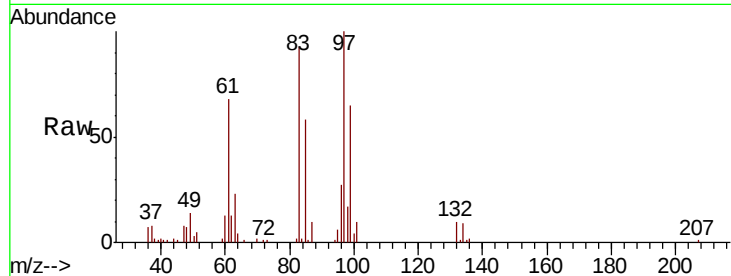
#55
 1,1,2-Trichloroethane
 Concen: 17.286 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. 0.00 min
 Lab File: VN052253.D
 Acq: 12 Nov 2018 10:46

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1112WBS01

Tot Ion	Ratio	Lower	Upper
97	100		
83	93.0	71.2	106.8
85	57.8	45.6	68.4
99	64.8	49.1	73.7

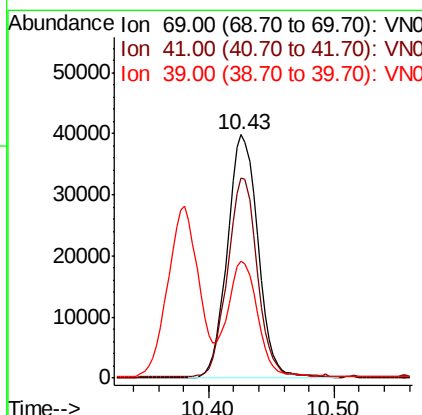
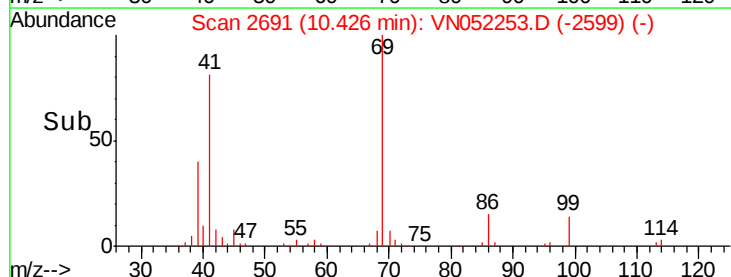
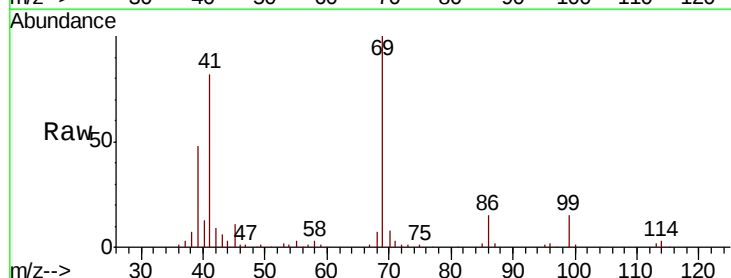
Manual Integrations
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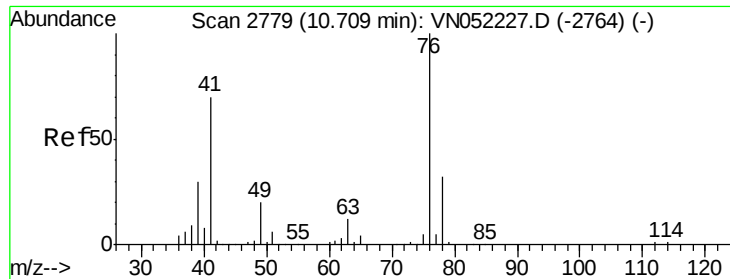
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 11/13/2018 2:54:24 PM



#56
 Ethyl methacrylate
 Concen: 16.165 ug/l
 RT: 10.43 min Scan# 2691
 Delta R.T. -0.00 min
 Lab File: VN052253.D
 Acq: 12 Nov 2018 10:46

Tgt Ion	Ratio	Lower	Upper
69	100		
41	78.8	64.0	96.0
39	44.9	37.8	56.8





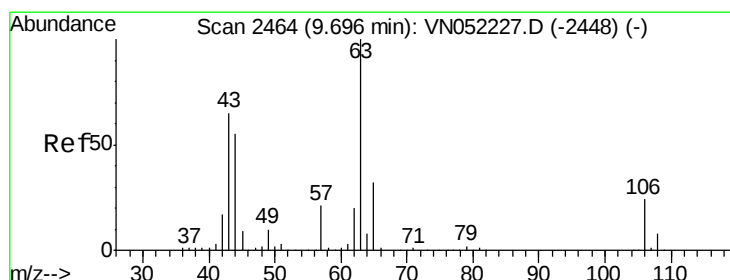
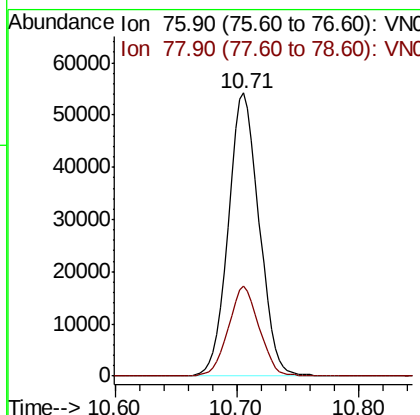
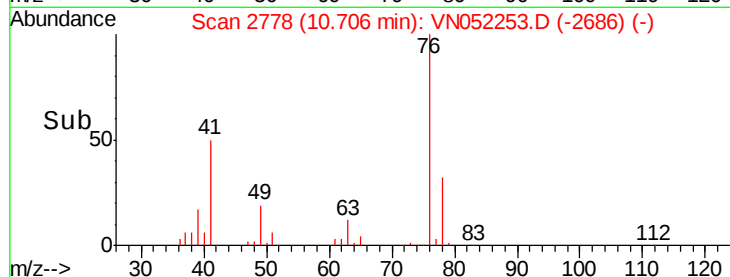
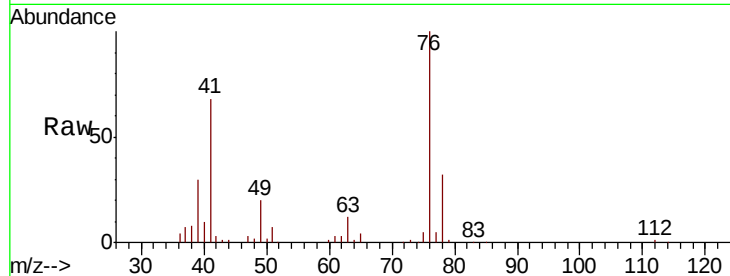
#57
 1,3-Dichloropropane
 Concen: 17.178 ug/l
 RT: 10.71 min Scan# 2778
 Delta R.T. -0.00 min
 Lab File: VN052253.D
 Acq: 12 Nov 2018 10:46

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1112WBS01

Tot Ion: 76 Resp: 95515
 Ion Ratio Lower Upper
 76 100
 78 31.7 25.7 38.5

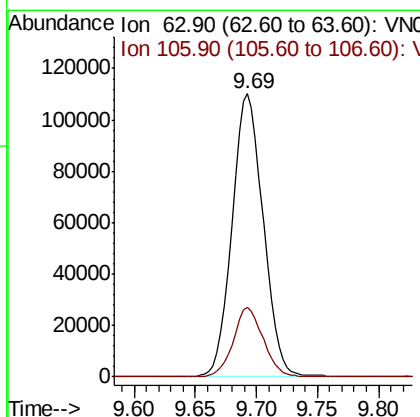
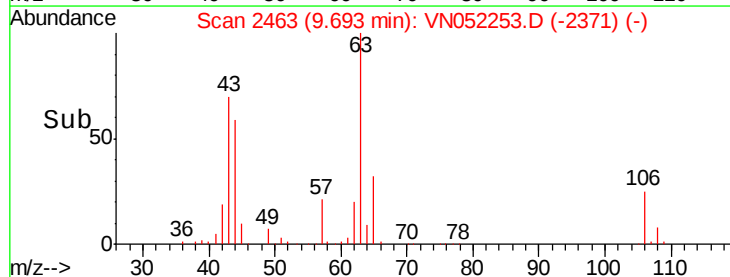
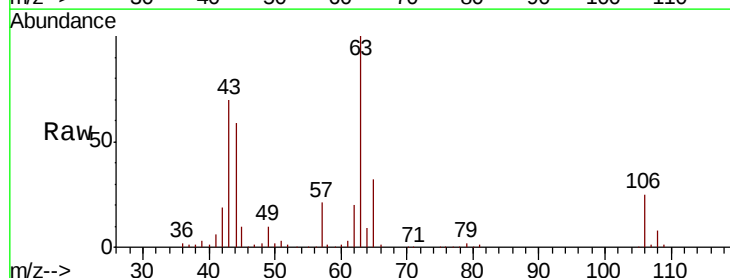
Manual Integrations
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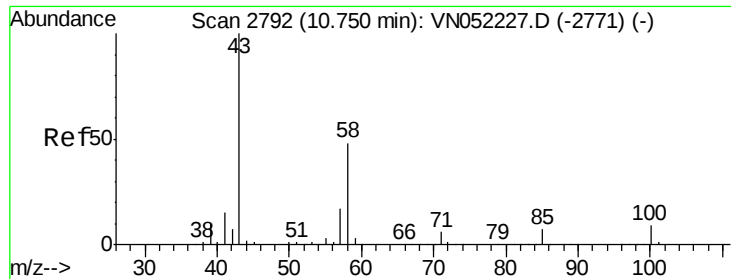
MMDadoda
 11/13/2018 2:54:24 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 84.124 ug/l
 RT: 9.69 min Scan# 2463
 Delta R.T. -0.00 min
 Lab File: VN052253.D
 Acq: 12 Nov 2018 10:46

Tgt Ion: 63 Resp: 195540
 Ion Ratio Lower Upper
 63 100
 106 23.7 19.5 29.3





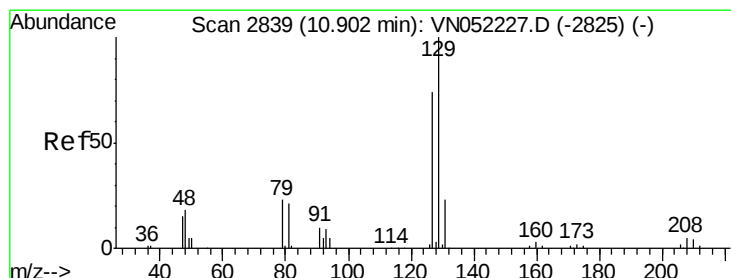
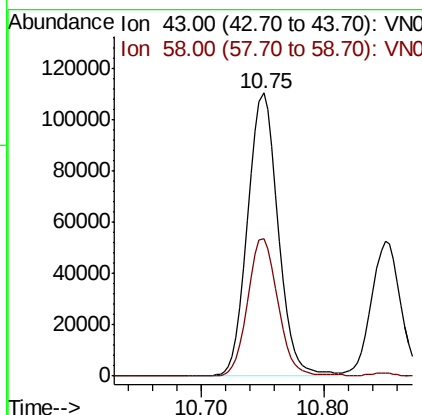
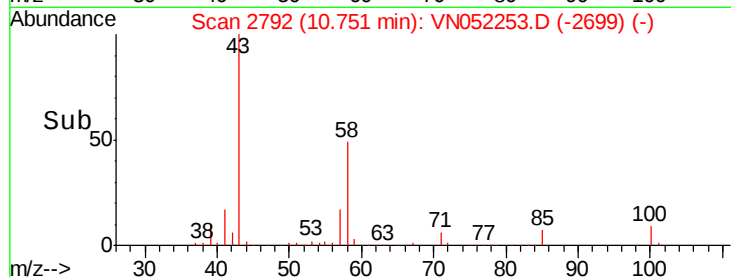
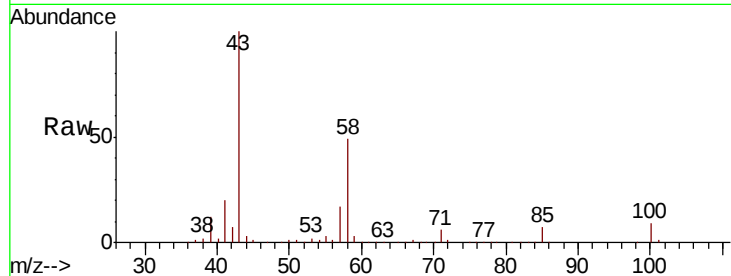
#59
2-Hexanone
Concen: 75.041 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN052253.D
Acq: 12 Nov 2018 10:46

Instrument :
MSVOA_N
ClientSampleId :
VN1112WBS01

Tot Ion: 43 Resp: 189768
Ion Ratio Lower Upper
43 100
58 48.4 24.1 72.3

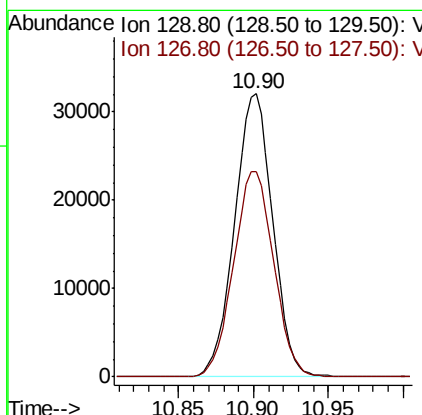
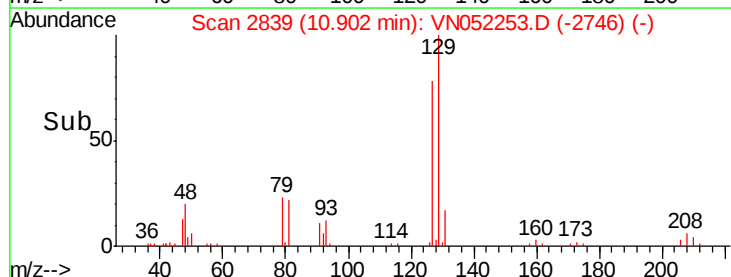
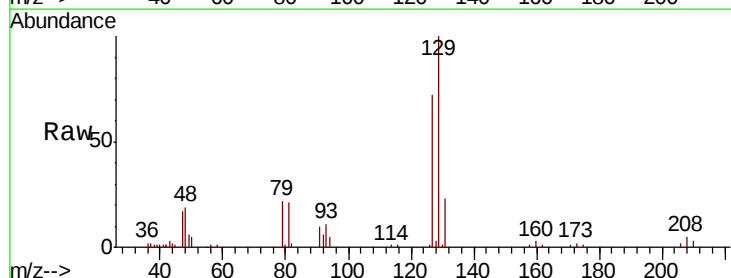
Manual Integrations
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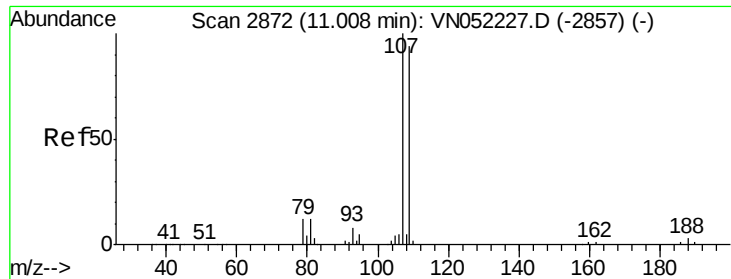
MMDadoda
11/13/2018 2:54:24 PM



#60
Dibromochloromethane
Concen: 18.057 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN052253.D
Acq: 12 Nov 2018 10:46

Tgt Ion: 129 Resp: 56889
Ion Ratio Lower Upper
129 100
127 76.5 38.0 114.1





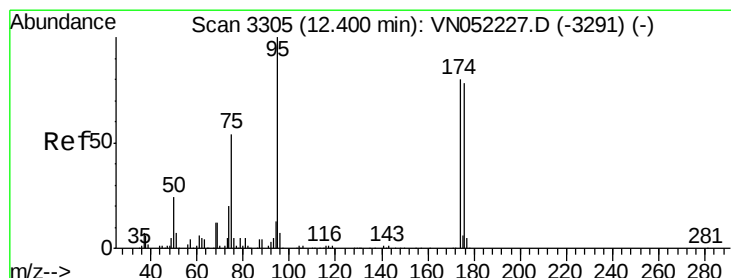
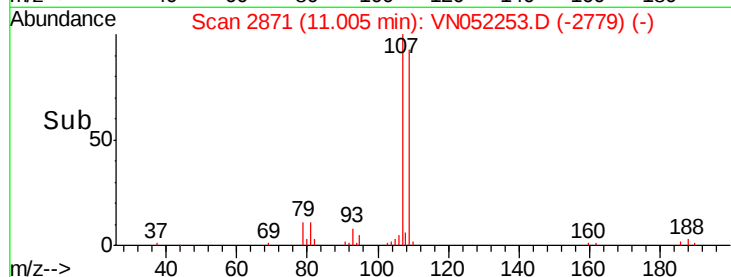
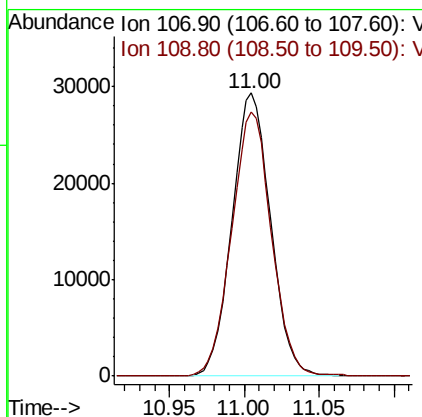
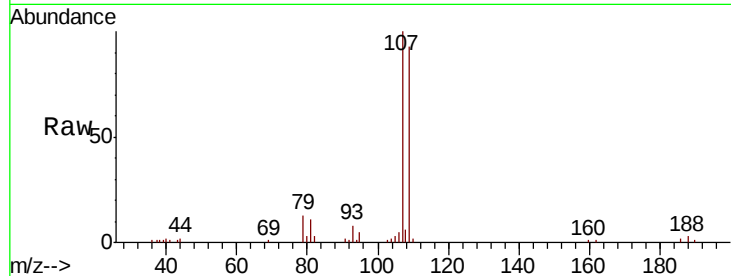
#61
 1,2-Dibromoethane
 Concen: 17.240 ug/l
 RT: 11.00 min Scan# 2871
 Delta R.T. -0.00 min
 Lab File: VN052253.D
 Acq: 12 Nov 2018 10:46

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1112WBS01

Tot Ion: 107 Resp: 52627
 Ion Ratio Lower Upper
 107 100
 109 96.1 75.8 113.6

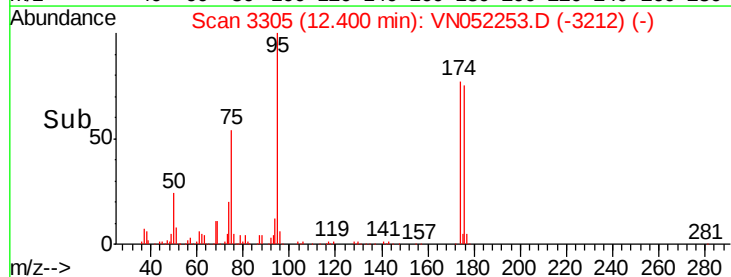
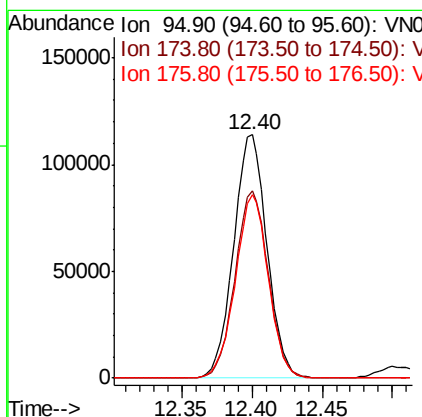
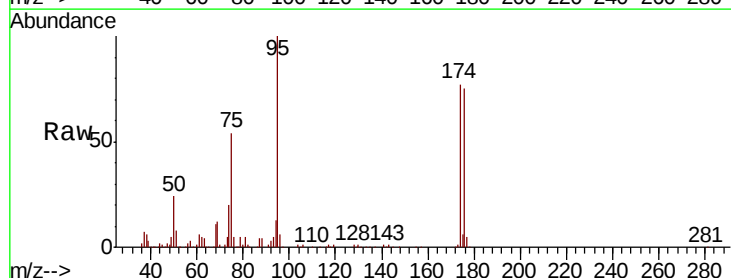
Manual Integrations
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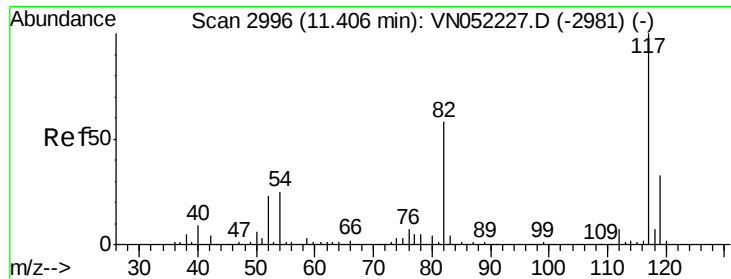
MMDadoda
 11/13/2018 2:54:24 PM



#62
 4-Bromofluorobenzene
 Concen: 17.240 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.00 min
 Lab File: VN052253.D
 Acq: 12 Nov 2018 10:46

Tgt Ion: 95 Resp: 188720
 Ion Ratio Lower Upper
 95 100
 174 77.0 0.0 159.4
 176 74.3 0.0 157.8





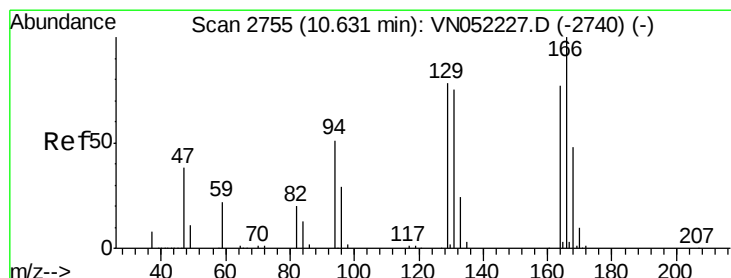
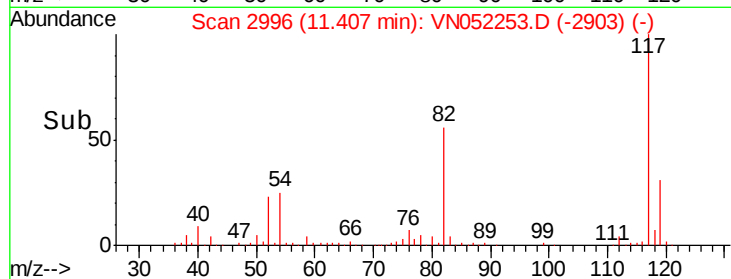
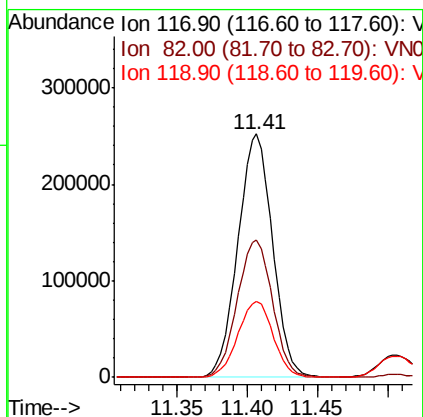
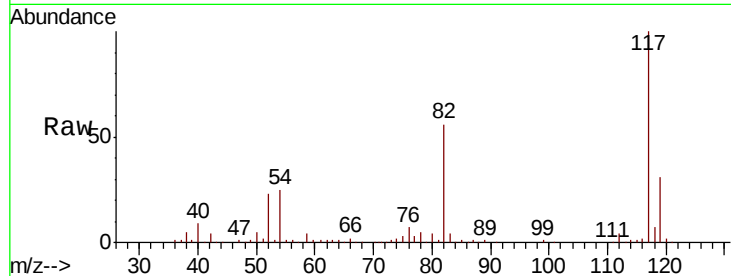
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN052253.D
Acq: 12 Nov 2018 10:46

Instrument :
MSVOA_N
ClientSampleId :
VN1112WBS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	56.3	46.2	69.2
119	31.5	26.2	39.4

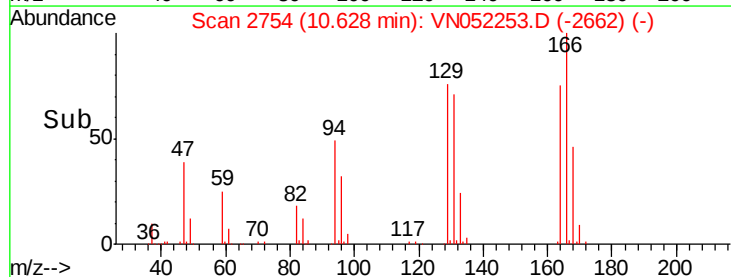
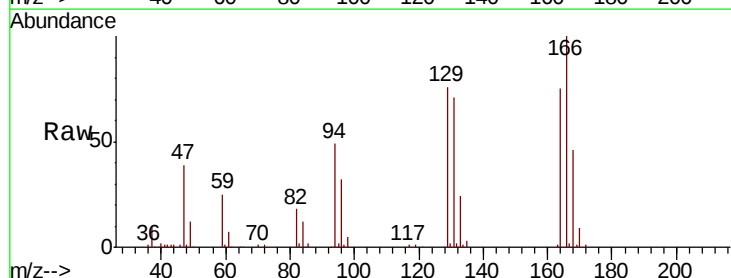
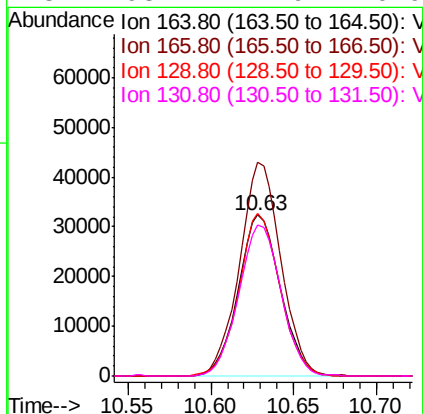
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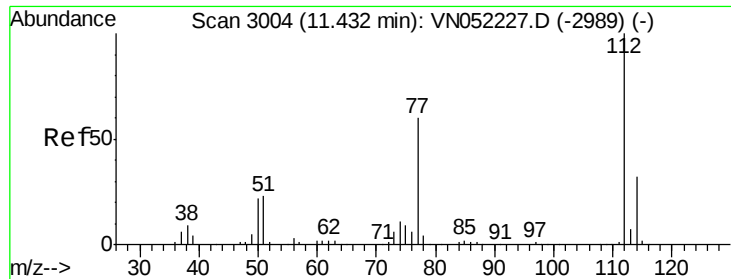
MMDadoda
11/13/2018 2:54:24 PM



#64
Tetrachloroethene
Concen: 18.752 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. -0.00 min
Lab File: VN052253.D
Acq: 12 Nov 2018 10:46

Tgt Ion	Ratio	Lower	Upper
164	100		
166	132.7	103.6	155.4
129	101.4	81.0	121.6
131	93.7	77.9	116.9





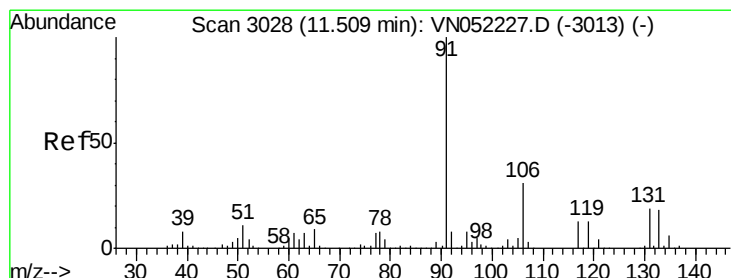
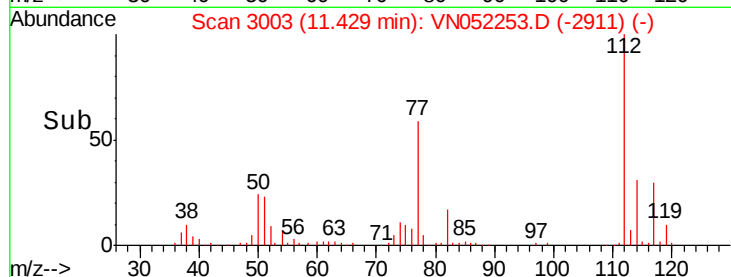
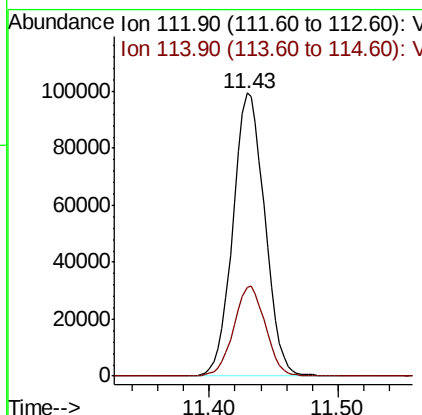
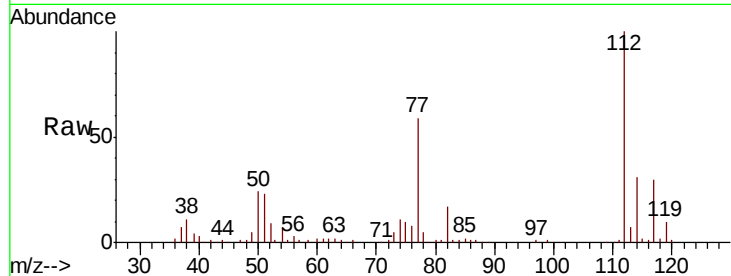
#65
Chlorobenzene
Concen: 18.511 ug/l
RT: 11.43 min Scan# 3003
Delta R.T. -0.00 min
Lab File: VN052253.D
Acq: 12 Nov 2018 10:46

Instrument :
MSVOA_N
ClientSampleId :
VN1112WBS01

Tot Ion:112 Resp: 170596
Ion Ratio Lower Upper
112 100
114 31.4 25.7 38.5

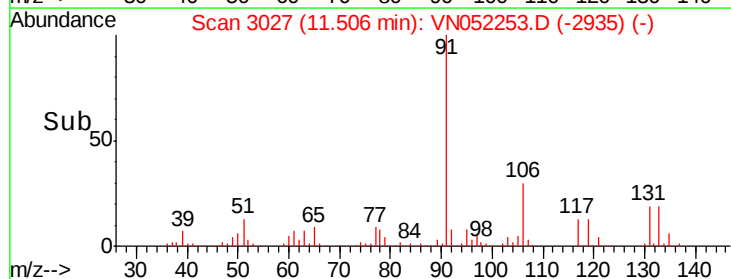
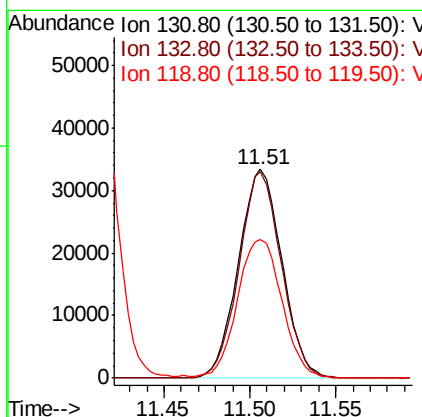
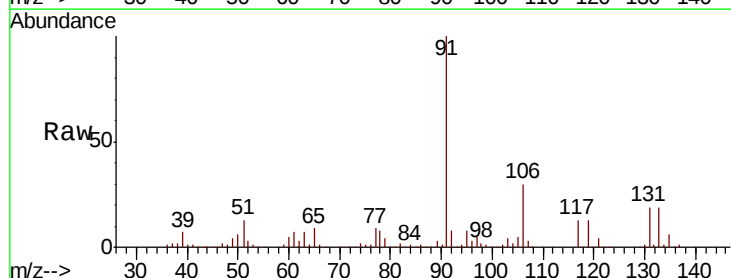
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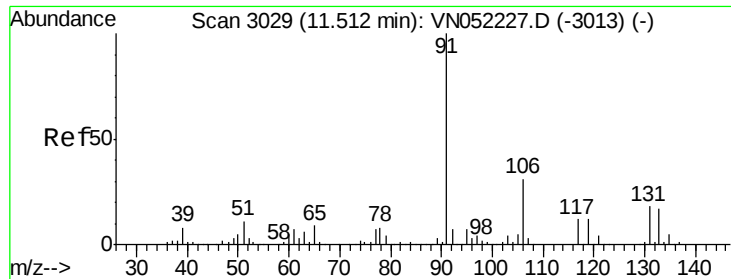
MMDadoda
11/13/2018 2:54:24 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 18.751 ug/l
RT: 11.51 min Scan# 3027
Delta R.T. -0.00 min
Lab File: VN052253.D
Acq: 12 Nov 2018 10:46

Tgt Ion:131 Resp: 58536
Ion Ratio Lower Upper
131 100
133 96.2 48.3 144.9
119 68.0 34.6 103.9





#67

Ethyl Benzene

Concen: 18.487 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. -0.00 min

Lab File: VN052253.D

Acq: 12 Nov 2018 10:46

Instrument :

MSVOA_N

ClientSampleId :

VN1112WBS01

Tot Ion: 91 Resp: 299678

Ion Ratio Lower Upper

91 100

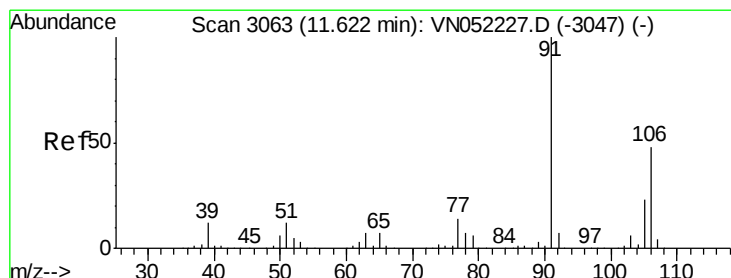
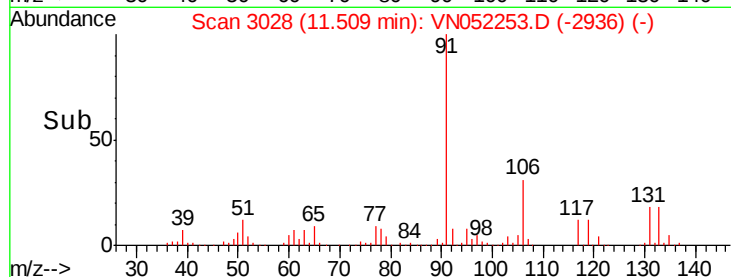
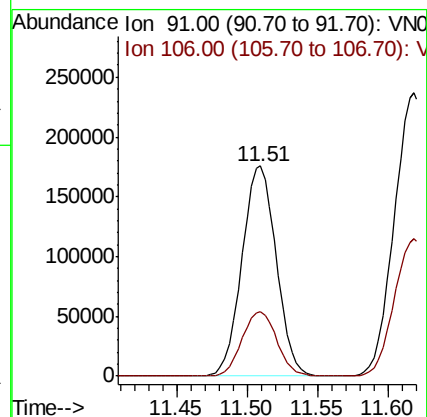
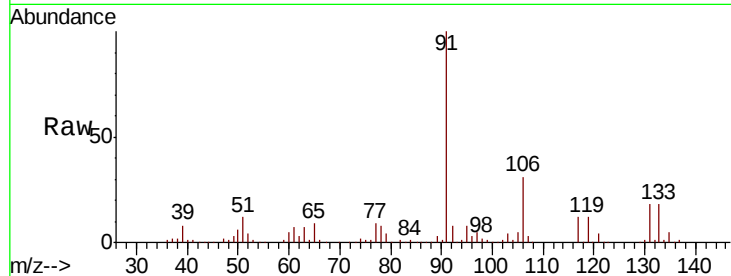
106 30.6 24.7 37.1

Manual Integrations

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MMDadoda

11/13/2018 2:54:24 PM



#68

m/p-Xylenes

Concen: 37.360 ug/l

RT: 11.62 min Scan# 3062

Delta R.T. -0.00 min

Lab File: VN052253.D

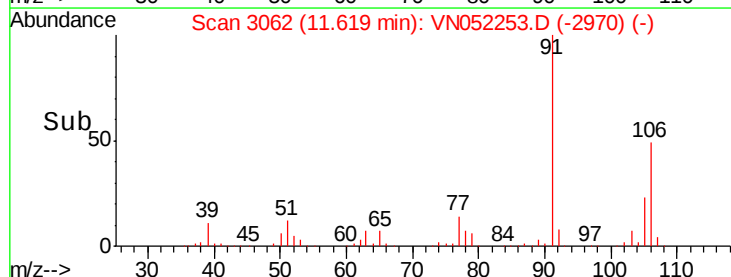
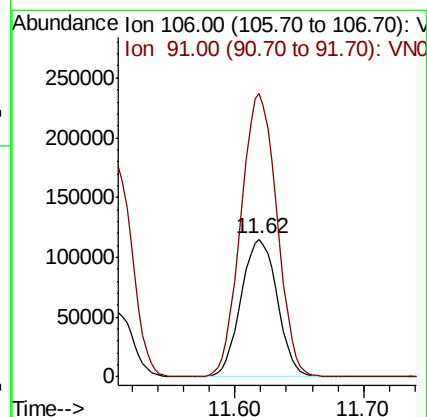
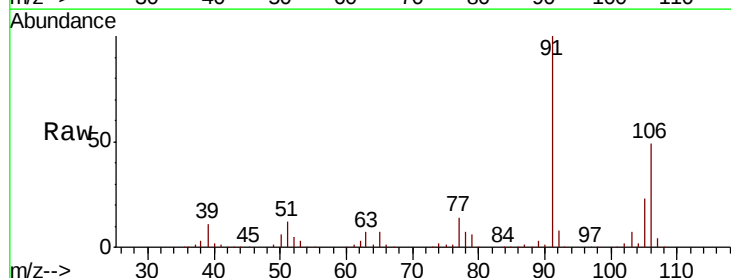
Acq: 12 Nov 2018 10:46

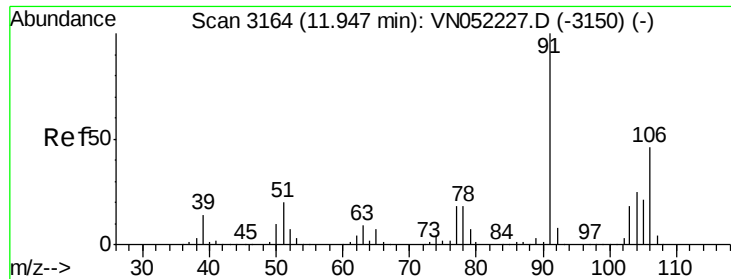
Tgt Ion: 106 Resp: 225534

Ion Ratio Lower Upper

106 100

91 204.5 165.7 248.5





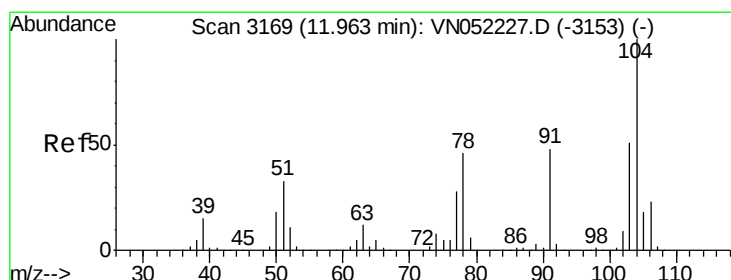
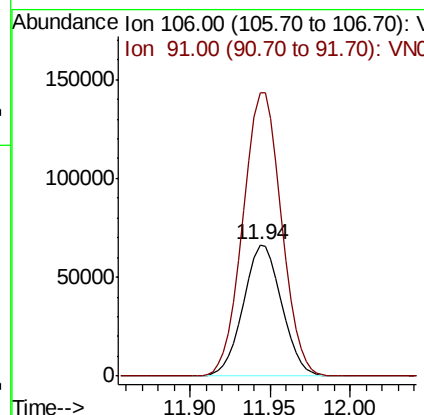
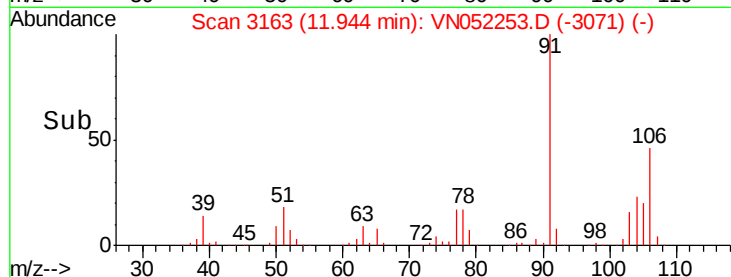
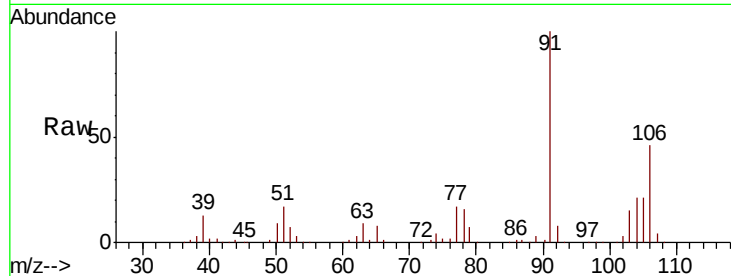
#69
o-Xylene
Concen: 18.824 ug/l
RT: 11.94 min Scan# 3163
Delta R.T. -0.00 min
Lab File: VN052253.D
Acq: 12 Nov 2018 10:46

Instrument :
MSVOA_N
ClientSampleId :
VN1112WBS01

Tot Ion:106 Resp: 108568
Ion Ratio Lower Upper
106 100
91 216.7 108.5 325.5

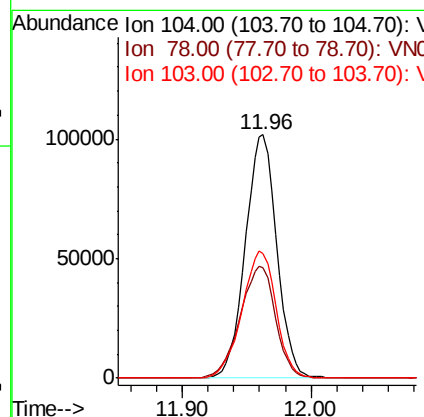
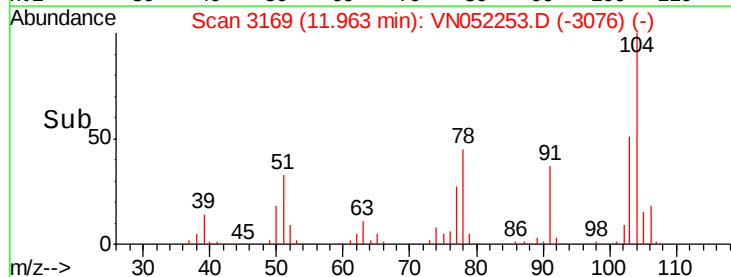
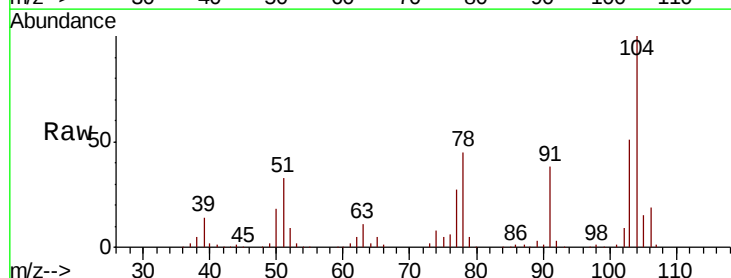
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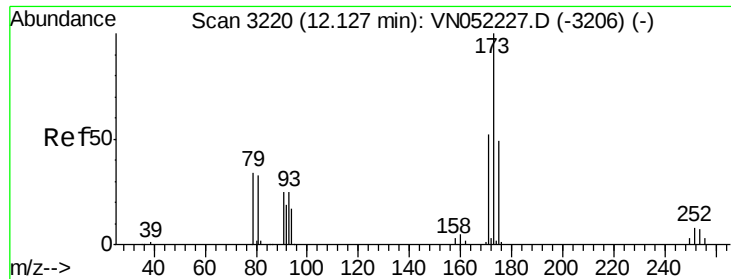
MMDadoda
11/13/2018 2:54:24 PM



#70
Styrene
Concen: 18.557 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN052253.D
Acq: 12 Nov 2018 10:46

Tgt Ion:104 Resp: 172910
Ion Ratio Lower Upper
104 100
78 51.6 41.8 62.6
103 56.6 44.9 67.3





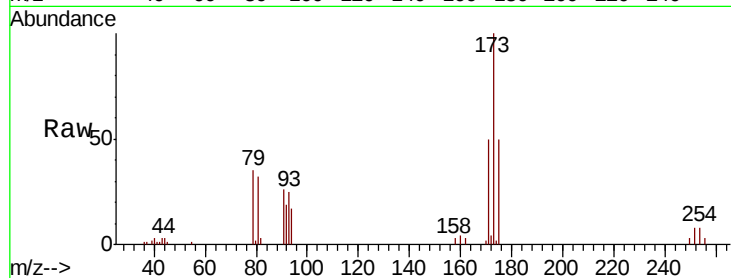
#71
Bromoform
Concen: 16.908 ug/l
RT: 12.12 min Scan# 3219
Delta R.T. -0.00 min
Lab File: VN052253.D
Acq: 12 Nov 2018 10:46

Instrument :
MSVOA_N
ClientSampleId :
VN1112WBS01

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.8	24.5	73.5
254	0.0	0.0	0.0

Manual Integrations
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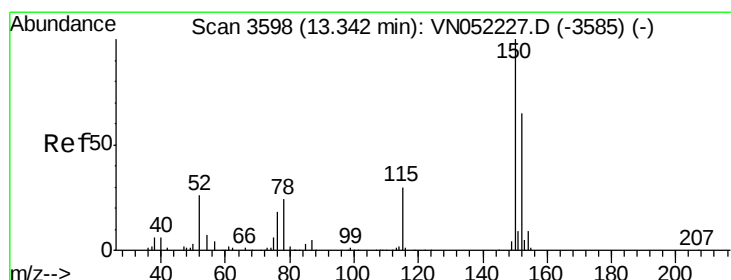
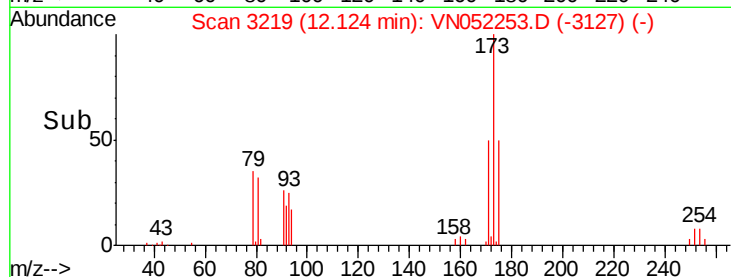
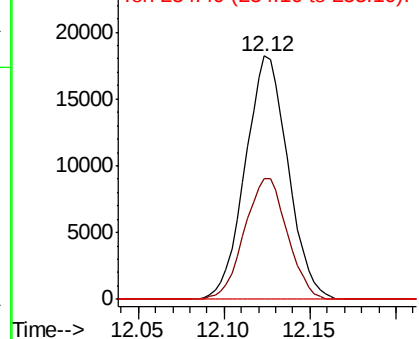


Abundance

Ion 172.70 (172.40 to 173.40): V

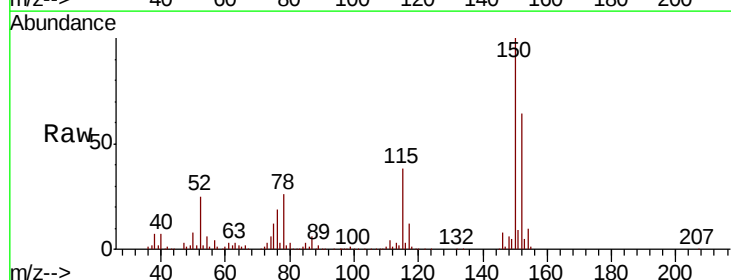
Ion 174.70 (174.40 to 175.40): V

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: VN052253.D
Acq: 12 Nov 2018 10:46

Tgt Ion	Ratio	Lower	Upper
152	100		
115	58.9	29.8	89.5
150	160.6	0.0	350.2

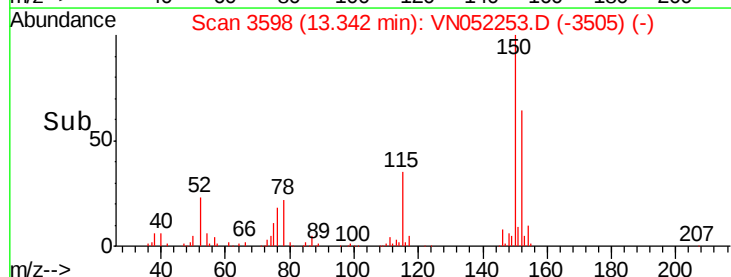
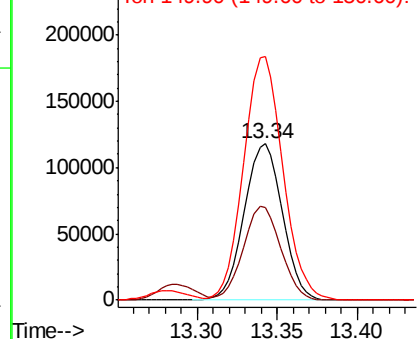


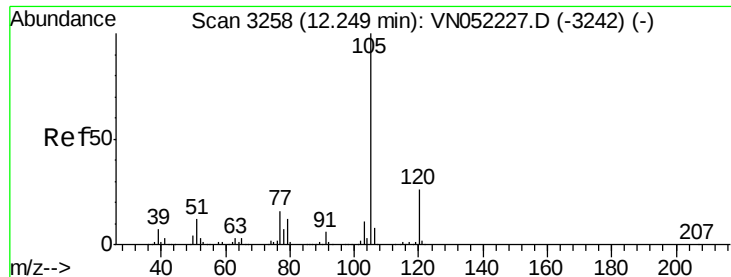
Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 18.614 ug/l

RT: 12.25 min Scan# 3257

Delta R.T. -0.00 min

Lab File: VN052253.D

Acq: 12 Nov 2018 10:46

Instrument :

MSVOA_N

ClientSampleId :

VN1112WBS01

Tot Ion: 105 Resp: 291620

Ion Ratio Lower Upper

105 100

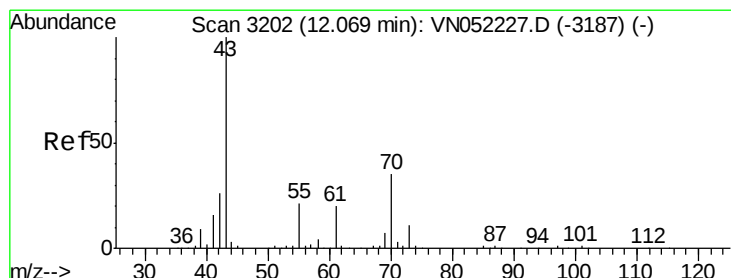
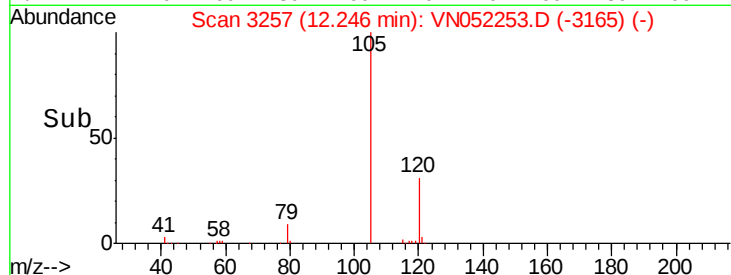
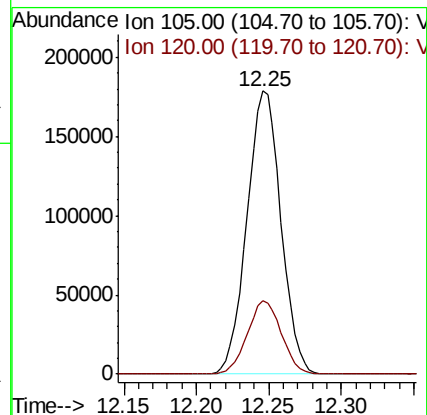
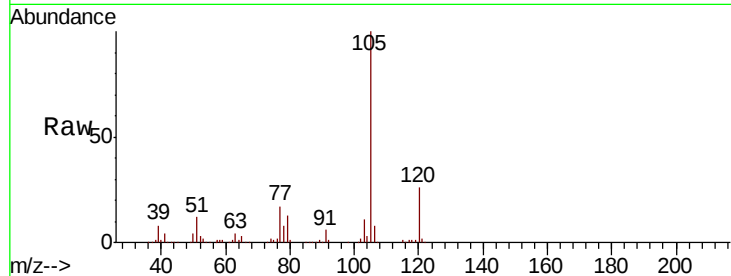
120 25.8 13.1 39.1

Manual Integrations

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#74

N-ethyl acetate

Concen: 15.323 ug/l

RT: 12.07 min Scan# 3201

Delta R.T. -0.00 min

Lab File: VN052253.D

Acq: 12 Nov 2018 10:46

Tgt Ion: 43 Resp: 87153

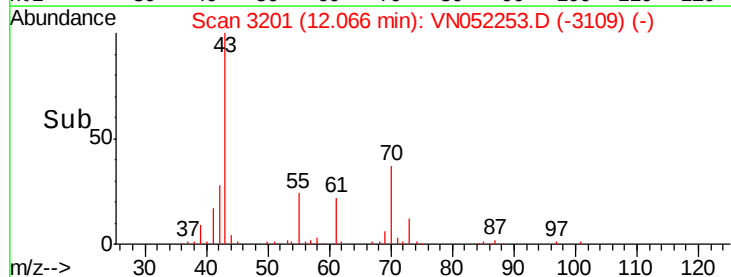
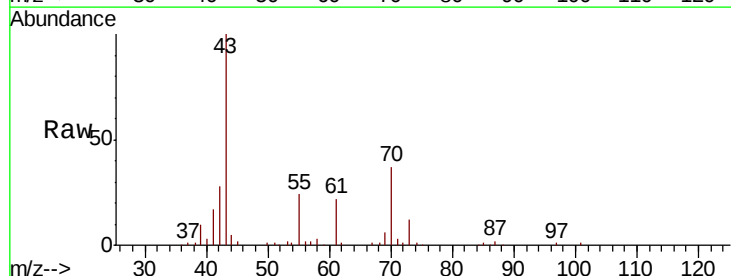
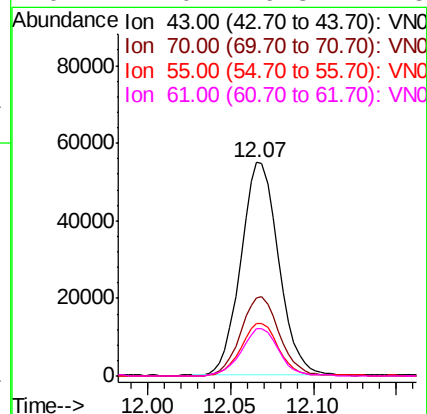
Ion Ratio Lower Upper

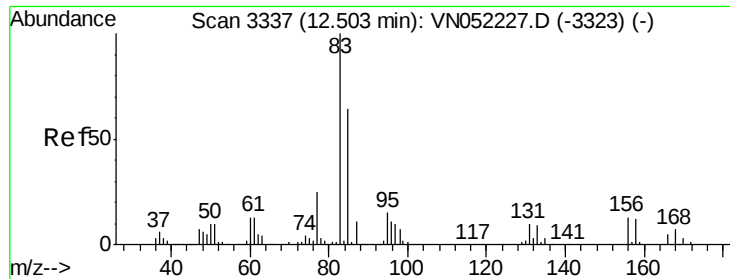
43 100

70 38.2 28.2 42.2

55 25.0 17.4 26.2

61 22.0 16.3 24.5





#75

1,1,2,2-Tetrachloroethane

Concen: 16.485 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN052253.D

Acq: 12 Nov 2018 10:46

Instrument :

MSVOA_N

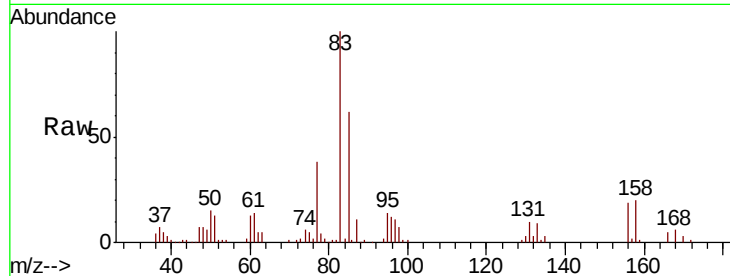
ClientSampleId :

VN1112WBS01

Tot Ion:	83	Resp:	63315
Ion Ratio	Lower	Upper	
83	100		
131	9.6	5.1	15.2
85	62.6	32.4	97.2

Manual Integrations
APPROVED

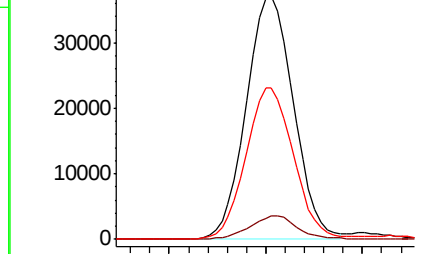
MMDadoda
11/13/2018 2:54:24 PM



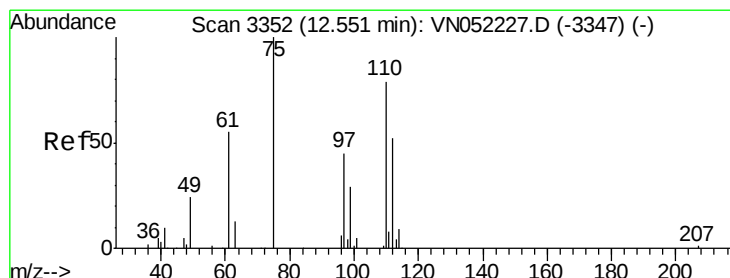
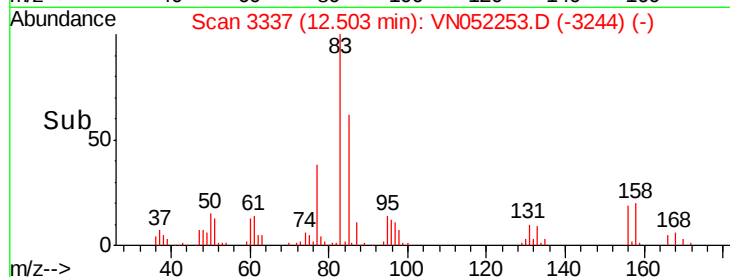
Abundance Ion 82.90 (82.60 to 83.60): VN052227.D (-3323) (-)

Ion 130.80 (130.50 to 131.50): VN052227.D (-3323) (-)

Ion 84.90 (84.60 to 85.60): VN052227.D (-3323) (-)



Time-->



#76

1,2,3-Trichloropropane

Concen: 16.079 ug/l m

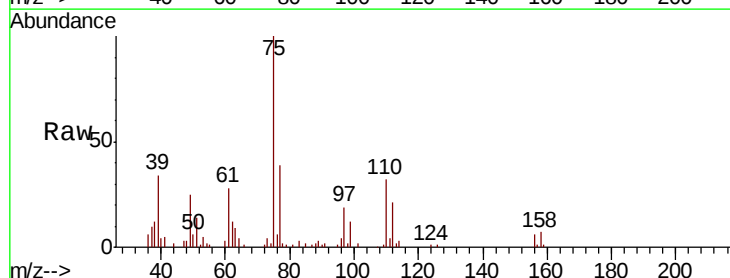
RT: 12.55 min Scan# 3352

Delta R.T. 0.00 min

Lab File: VN052253.D

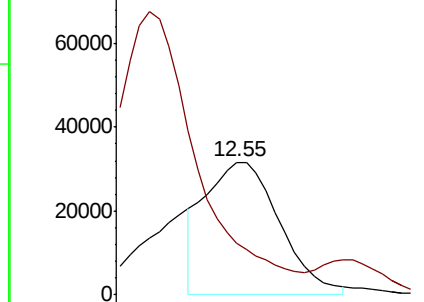
Acq: 12 Nov 2018 10:46

Tgt Ion:	75	Resp:	54520
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0

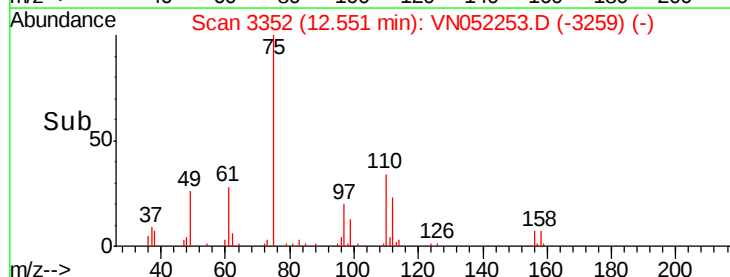


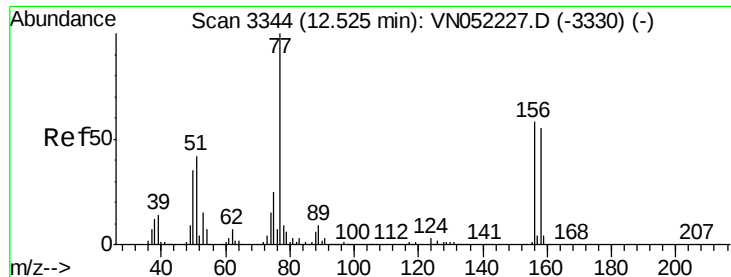
Abundance Ion 74.90 (74.60 to 75.60): VN052227.D (-3347) (-)

Ion 77.00 (76.70 to 77.70): VN052227.D (-3347) (-)



Time-->





#77

Bromobenzene

Concen: 17.928 ug/l

RT: 12.52 min Scan# 3343

Delta R.T. -0.00 min

Lab File: VN052253.D

Acq: 12 Nov 2018 10:46

Instrument :

MSVOA_N

ClientSampleId :

VN1112WBS01

Tot Ion:156 Resp: 65745

Ion Ratio Lower Upper

156 100

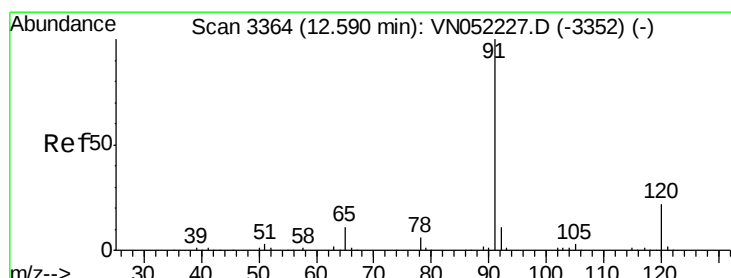
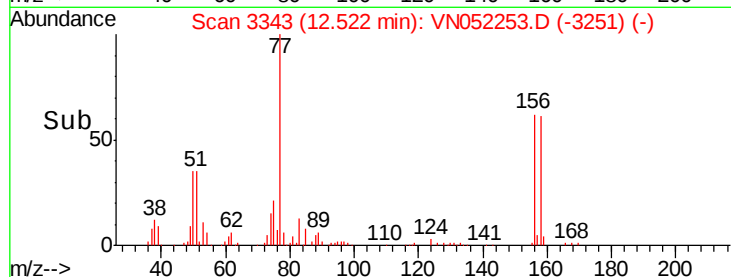
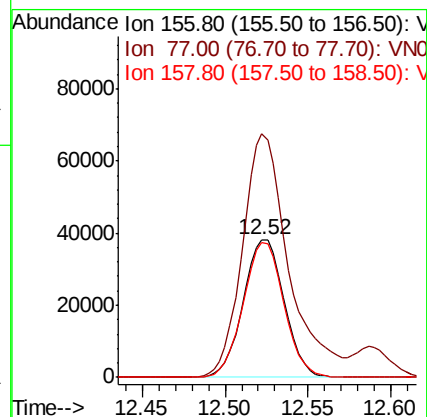
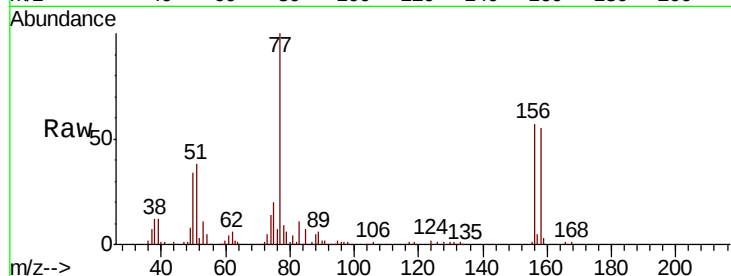
77 200.5 101.1 303.3

158 97.0 47.8 143.3

Manual Integrations
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#78

n-propylbenzene

Concen: 18.714 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN052253.D

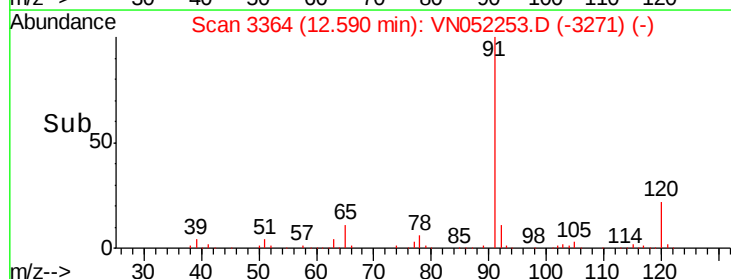
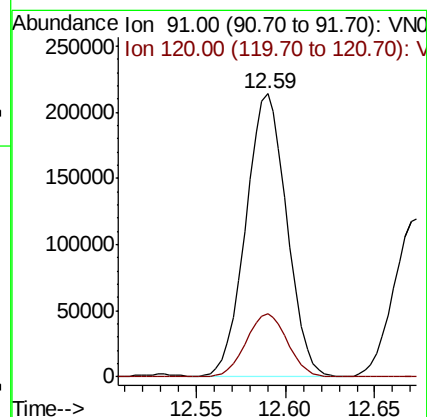
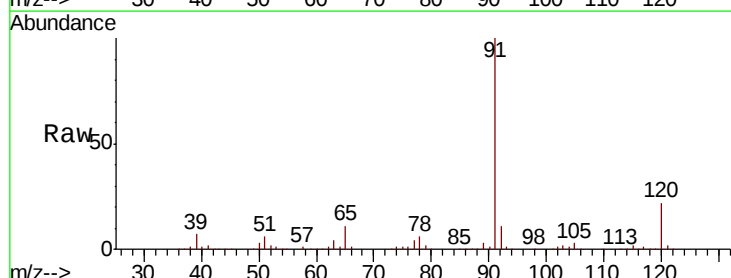
Acq: 12 Nov 2018 10:46

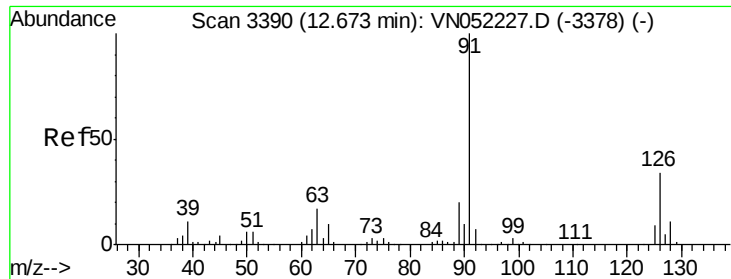
Tgt Ion: 91 Resp: 343386

Ion Ratio Lower Upper

91 100

120 22.5 11.3 33.8





#79

2-Chlorotoluene

Concen: 18.652 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN052253.D

Acq: 12 Nov 2018 10:46

Instrument :

MSVOA_N

ClientSampleId :

VN1112WBS01

Tot Ion: 91 Resp: 198273

Ion Ratio Lower Upper

91 100

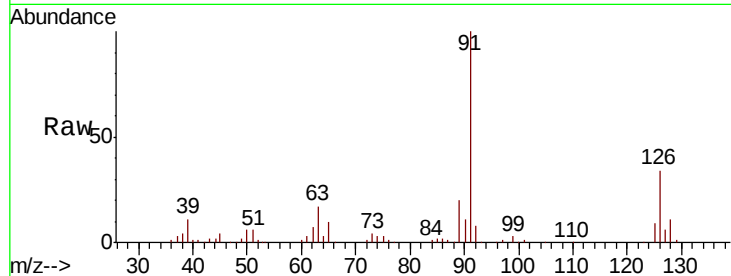
126 34.4 17.0 51.0

Manual Integrations

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Abundance Ion 91.00 (90.70 to 91.70): VN052227.D (-3378) (-)

Ion 125.90 (125.60 to 126.60): VN052227.D (-3378) (-)

200000

150000

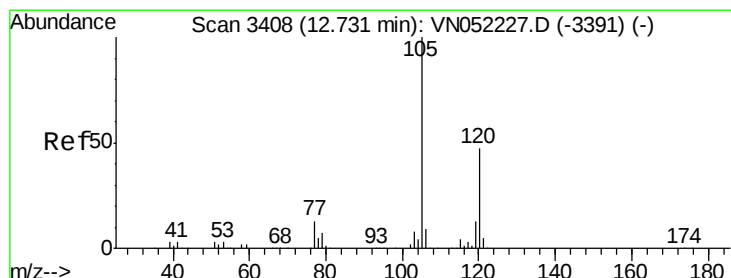
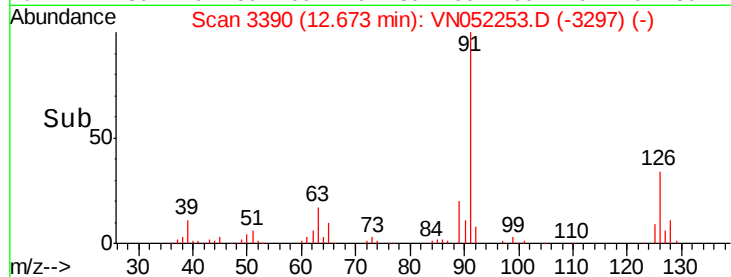
100000

50000

0

12.60 12.65 12.70

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 18.846 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN052253.D

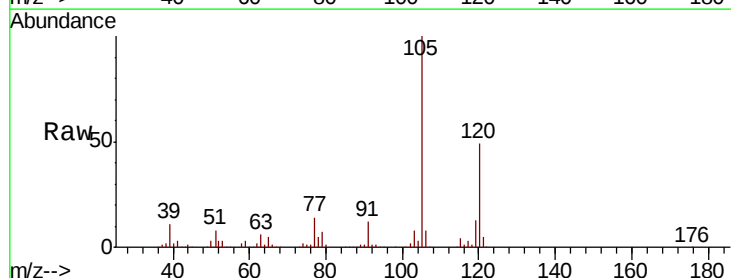
Acq: 12 Nov 2018 10:46

Tgt Ion: 105 Resp: 234812

Ion Ratio Lower Upper

105 100

120 48.3 23.9 71.8



Abundance Ion 105.00 (104.70 to 105.70): VN052227.D (-3391) (-)

Ion 120.00 (119.70 to 120.70): VN052227.D (-3391) (-)

150000

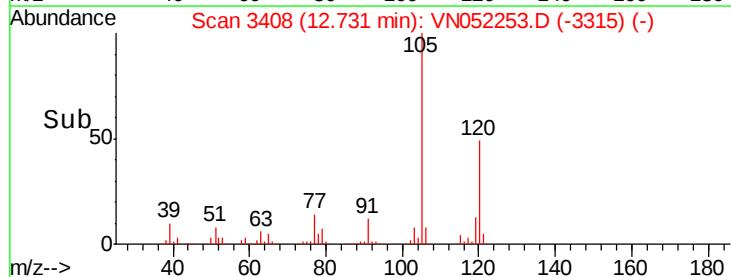
100000

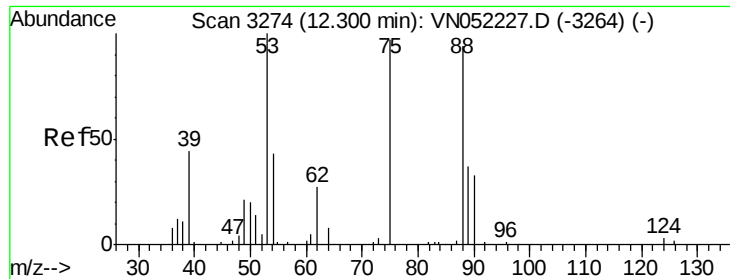
50000

0

12.65 12.70 12.75 12.80

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 15.742 ug/l

RT: 12.30 min Scan# 3273

Delta R.T. -0.00 min

Lab File: VN052253.D

Acq: 12 Nov 2018 10:46

Instrument :

MSVOA_N

ClientSampleId :

VN1112WBS01

Tot Ion: 75 Resp: 15638

Ion Ratio Lower Upper

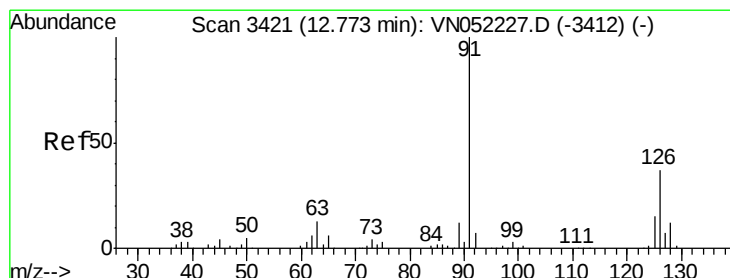
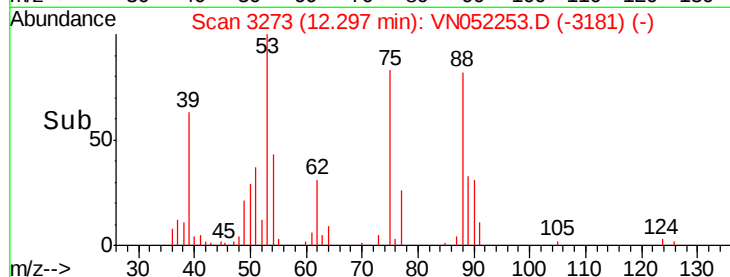
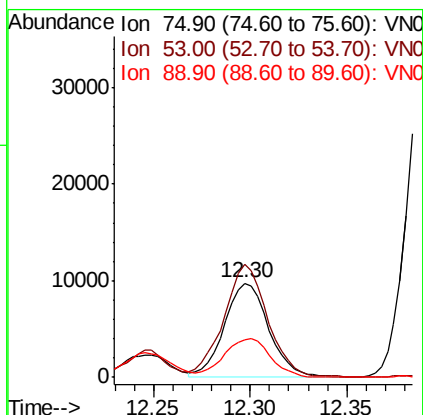
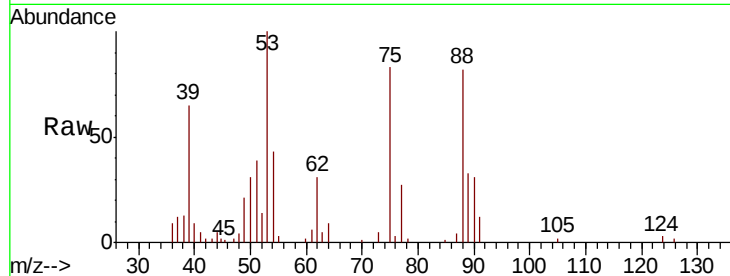
75 100

53 113.7 84.0 126.0

89 42.6 33.7 50.5

Manual Integrations
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11/13/2018 2:54:24 PM



#82

4-Chlorotoluene

Concen: 18.363 ug/l

RT: 12.77 min Scan# 3420

Delta R.T. -0.00 min

Lab File: VN052253.D

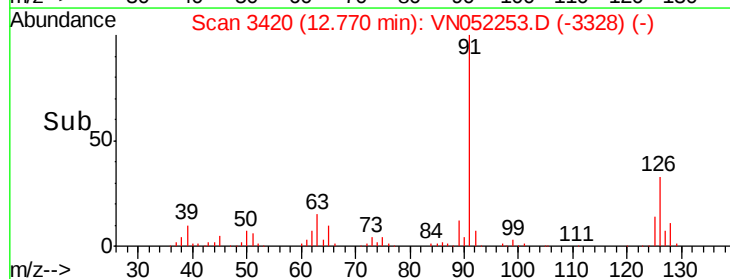
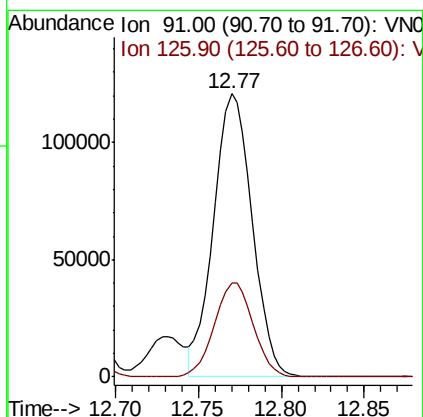
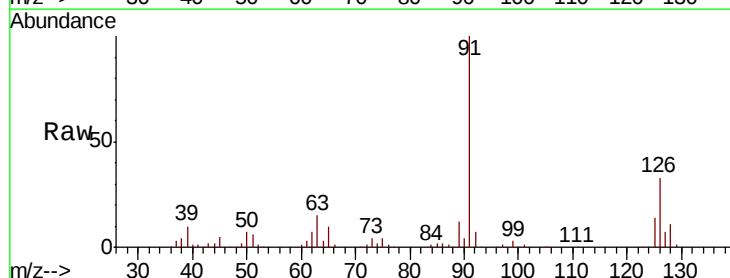
Acq: 12 Nov 2018 10:46

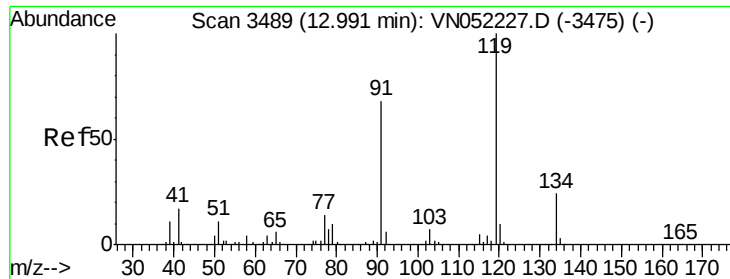
Tgt Ion: 91 Resp: 195861

Ion Ratio Lower Upper

91 100

126 33.5 16.9 50.7





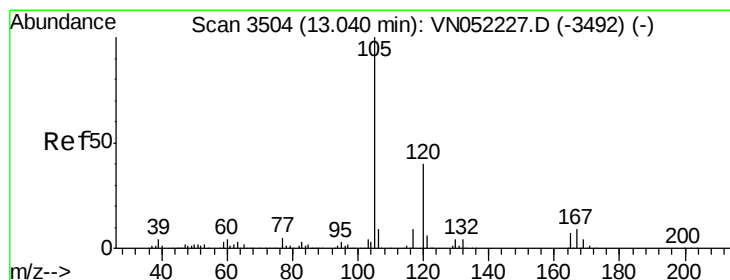
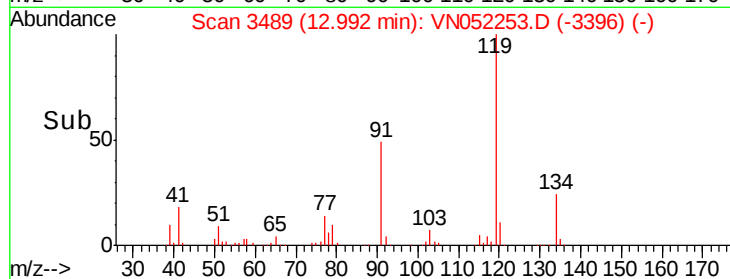
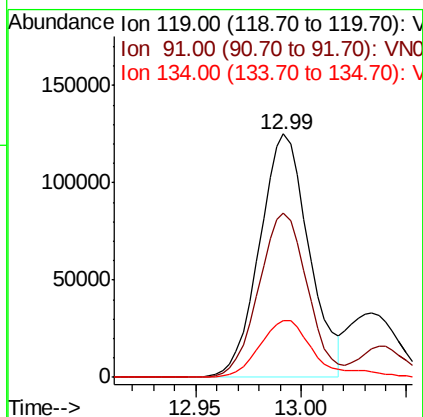
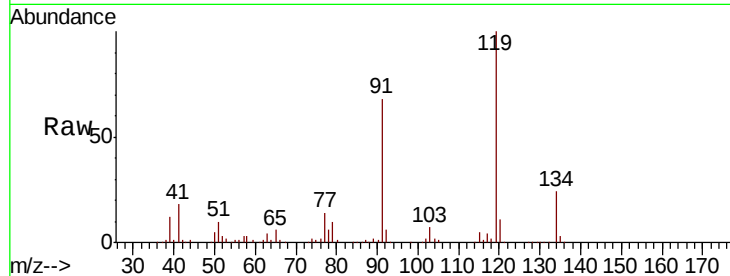
#83
tert-Butylbenzene
Concen: 18.731 ug/l
RT: 12.99 min Scan# 3489
Delta R.T. 0.00 min
Lab File: VN052253.D
Acq: 12 Nov 2018 10:46

Instrument :
MSVOA_N
ClientSampleId :
VN1112WBS01

Tot Ion	Ratio	Lower	Upper
119	100		
91	66.7	33.5	100.4
134	26.2	13.0	38.9

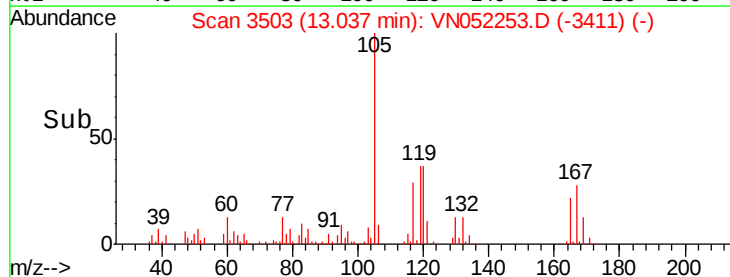
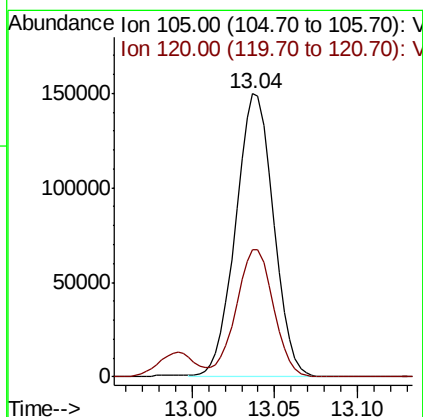
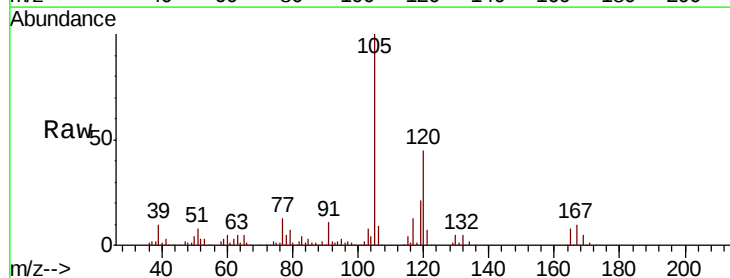
Manual Integrations
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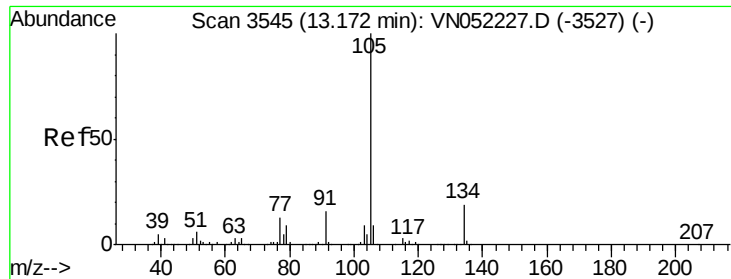
MMDadoda
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#84
1,2,4-Trimethylbenzene
Concen: 18.993 ug/l
RT: 13.04 min Scan# 3503
Delta R.T. -0.00 min
Lab File: VN052253.D
Acq: 12 Nov 2018 10:46

Tgt Ion	Ratio	Lower	Upper
105	100		
120	44.1	22.7	68.1





#85

sec-Butylbenzene

Concen: 19.220 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN052253.D

Acq: 12 Nov 2018 10:46

Instrument :

MSVOA_N

ClientSampleId :

VN1112WBS01

Tot Ion:105 Resp: 286700

Ion Ratio Lower Upper

105 100

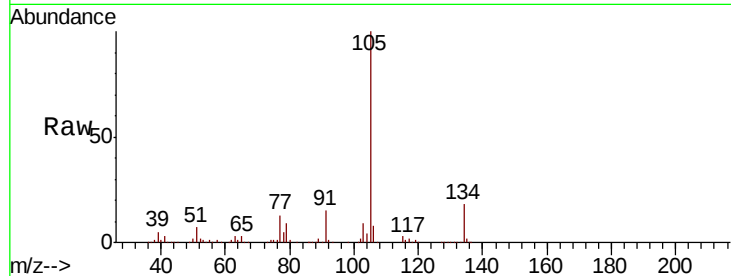
134 19.0 9.7 28.9

Manual Integrations

APPROVED

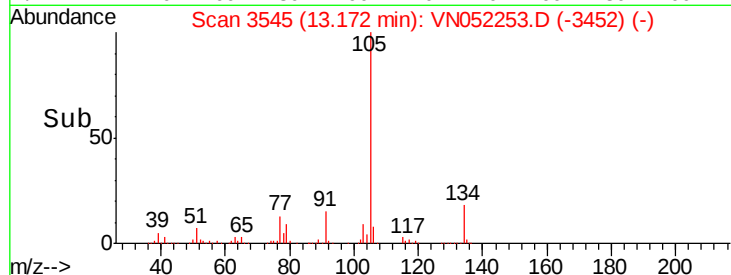
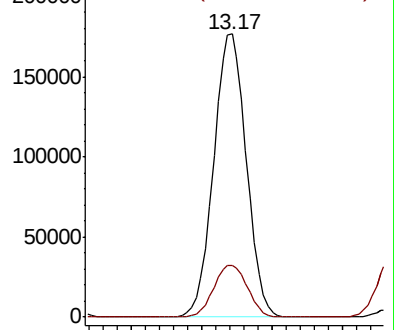
MMDadoda

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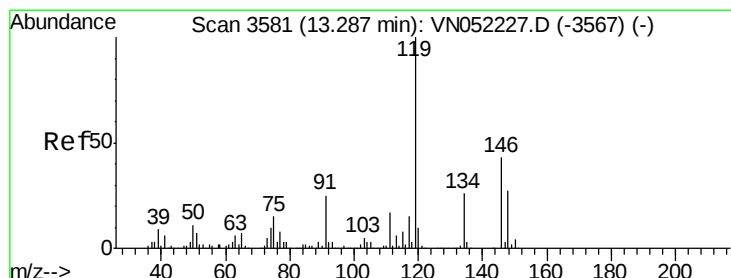


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



Time-->



#86

p-Isopropyltoluene

Concen: 19.156 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.00 min

Lab File: VN052253.D

Acq: 12 Nov 2018 10:46

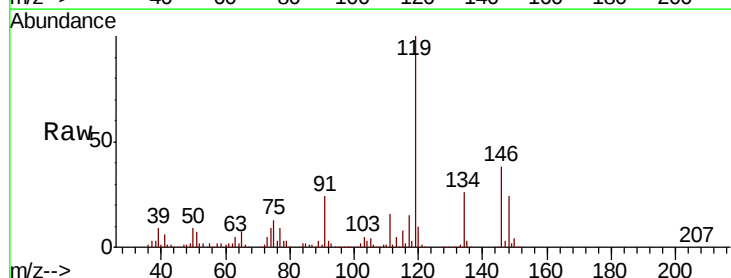
Tgt Ion:119 Resp: 239054

Ion Ratio Lower Upper

119 100

134 26.4 13.2 39.6

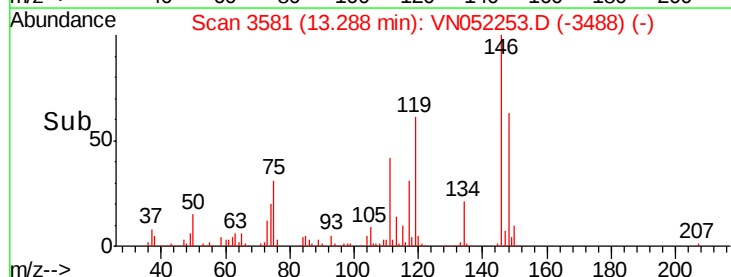
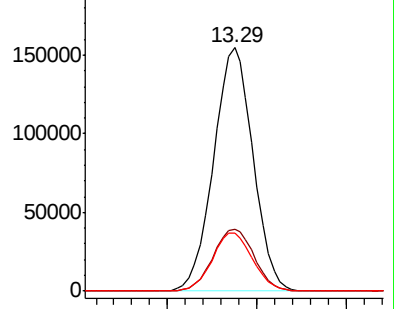
91 24.5 12.4 37.0



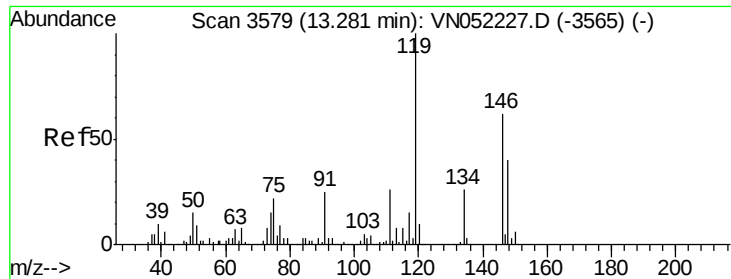
Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V



Time-->



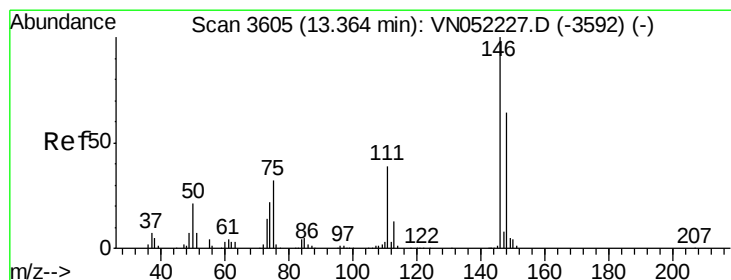
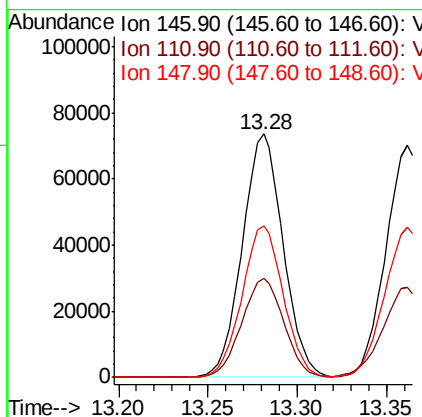
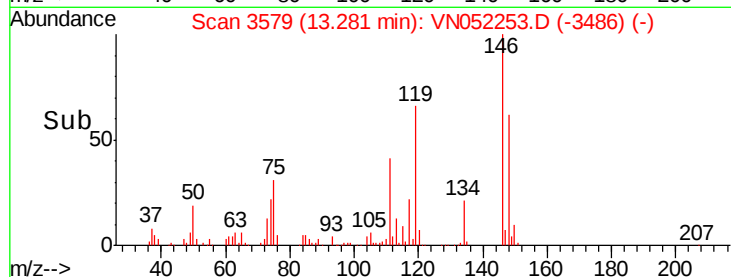
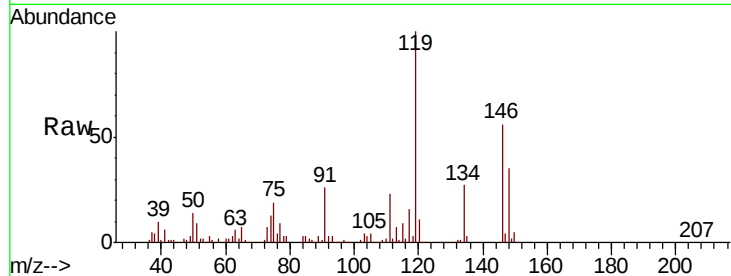
#87
 1,3-Dichlorobenzene
 Concen: 18.452 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. 0.00 min
 Lab File: VN052253.D
 Acq: 12 Nov 2018 10:46

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1112WBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.9	20.1	60.3
148	63.0	31.6	94.7

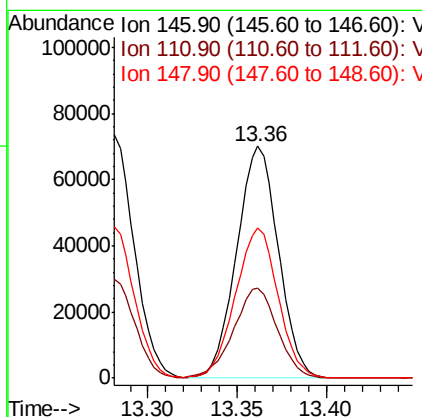
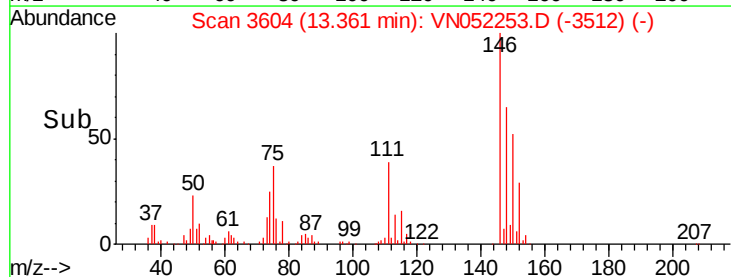
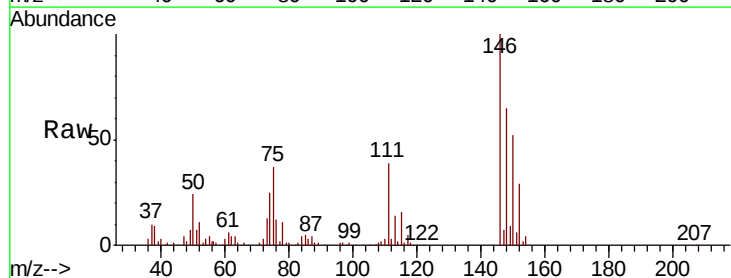
Manual Integrations
 APPROVED

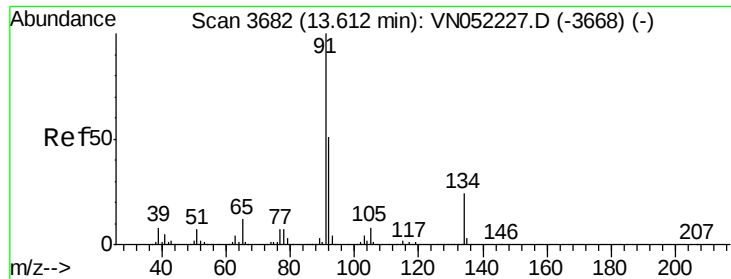
MMDadoda
 11/13/2018 2:54:24 PM



#88
 1,4-Dichlorobenzene
 Concen: 17.943 ug/l
 RT: 13.36 min Scan# 3604
 Delta R.T. -0.00 min
 Lab File: VN052253.D
 Acq: 12 Nov 2018 10:46

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.8	20.2	60.6
148	66.2	32.1	96.3





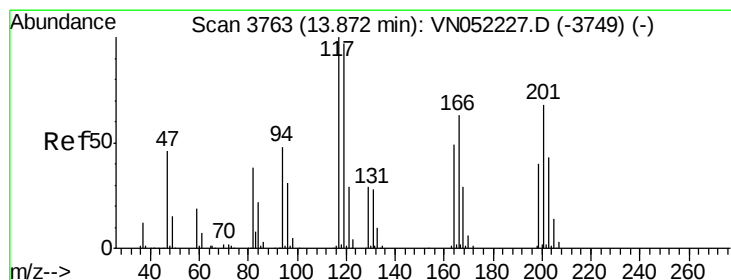
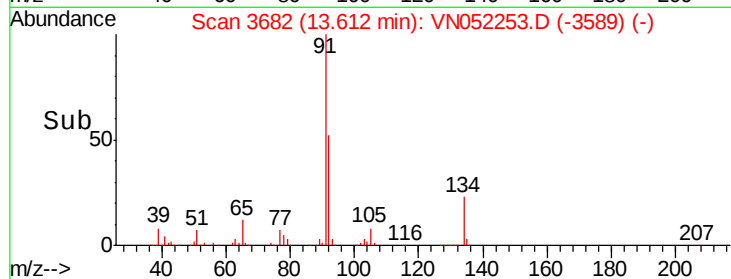
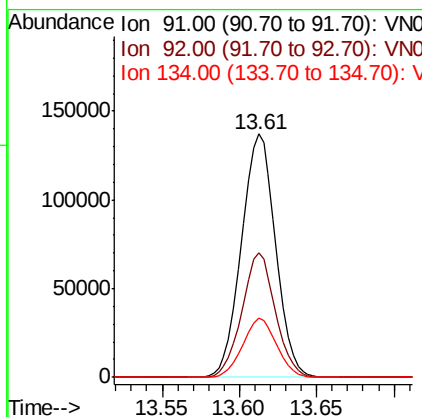
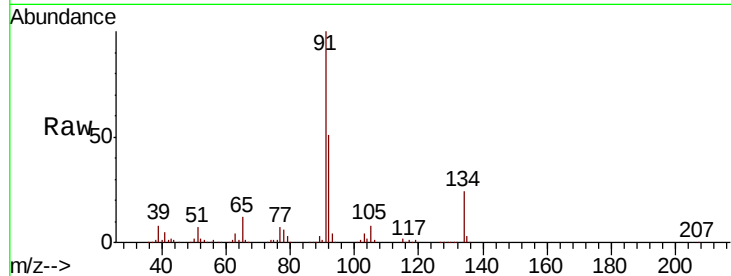
#89
n-Butylbenzene
Concen: 18.921 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. 0.00 min
Lab File: VN052253.D
Acq: 12 Nov 2018 10:46

Instrument :
MSVOA_N
ClientSampleId :
VN1112WBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	50.0	25.1	75.3
134	24.1	12.0	36.1

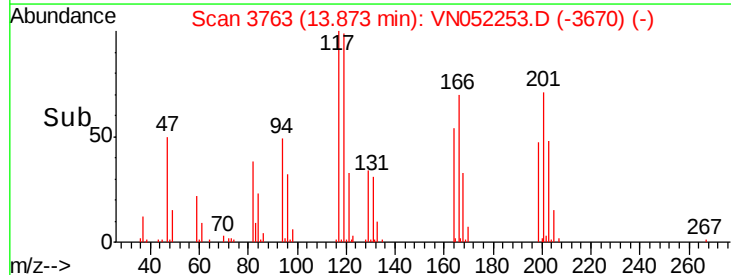
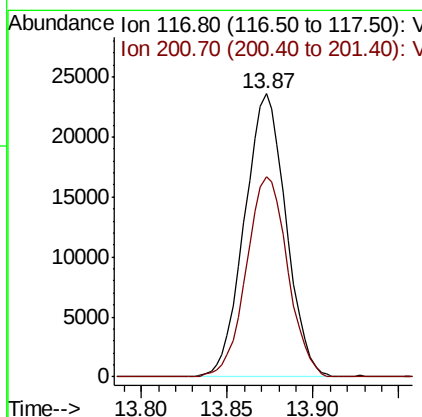
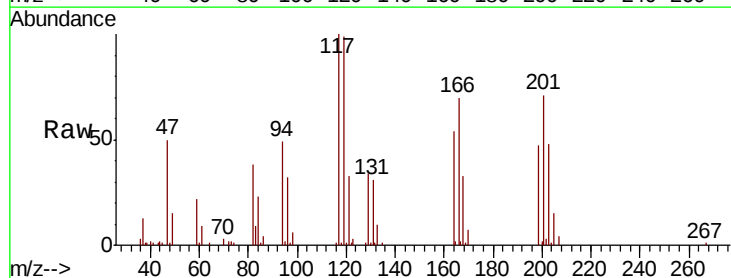
Manual Integrations
APPROVED

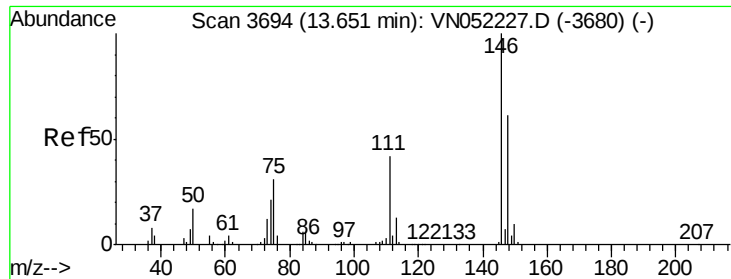
MMDadoda
11/13/2018 2:54:24 PM



#90
Hexachloroethane
Concen: 18.065 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. 0.00 min
Lab File: VN052253.D
Acq: 12 Nov 2018 10:46

Tgt Ion	Ratio	Lower	Upper
117	100		
201	70.1	34.6	103.9





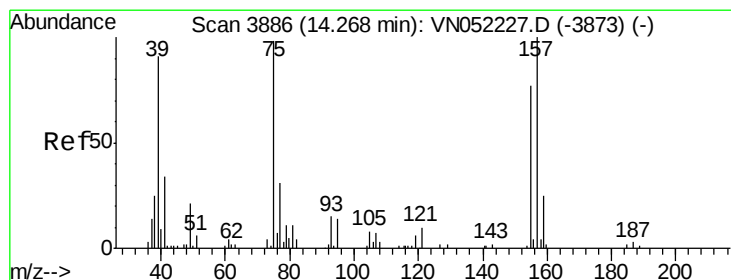
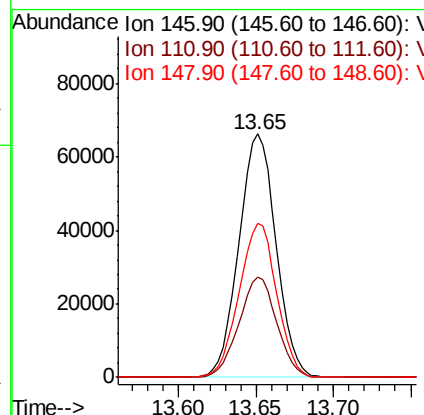
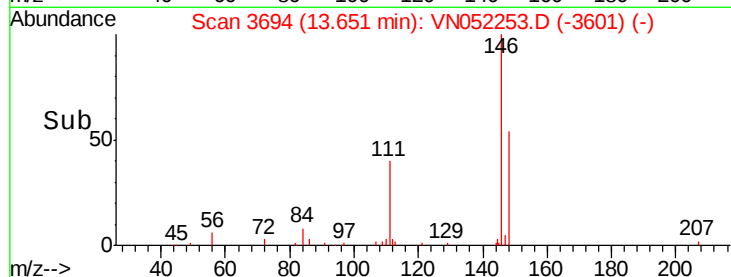
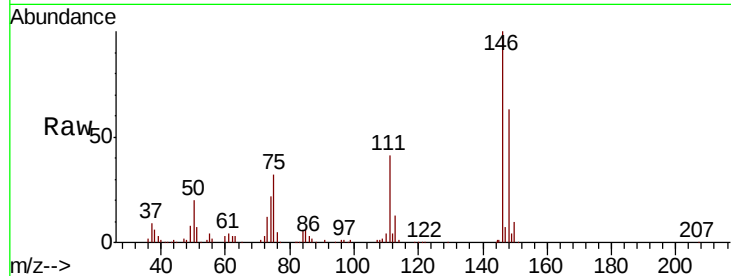
#91
 1,2-Dichlorobenzene
 Concen: 17.752 ug/l
 RT: 13.65 min Scan# 3694
 Delta R.T. 0.00 min
 Lab File: VN052253.D
 Acq: 12 Nov 2018 10:46

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1112WBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.8	21.1	63.3
148	63.8	31.3	93.8

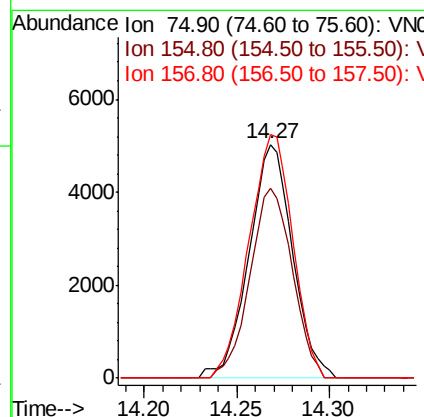
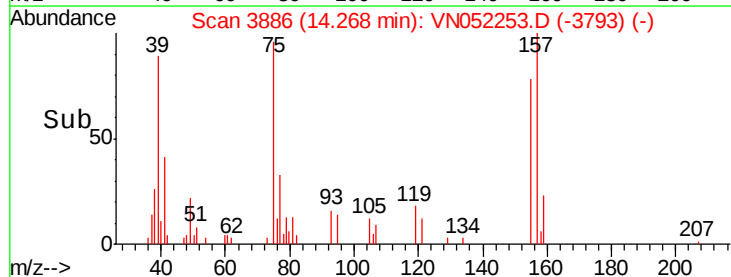
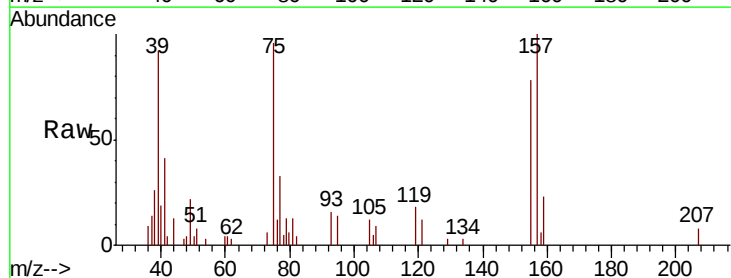
Manual Integrations
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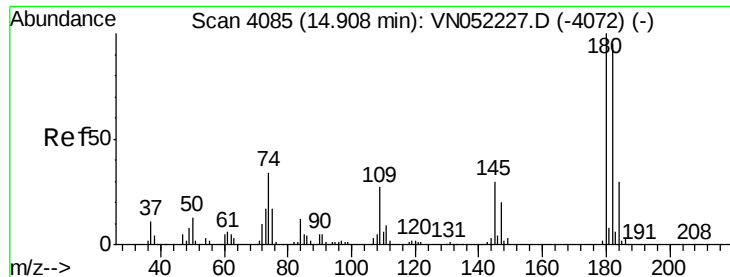
MMDadoda
 11/13/2018 2:54:24 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 15.120 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. 0.00 min
 Lab File: VN052253.D
 Acq: 12 Nov 2018 10:46

Tgt Ion	Ratio	Lower	Upper
75	100		
155	78.6	40.2	120.5
157	104.3	51.7	155.2





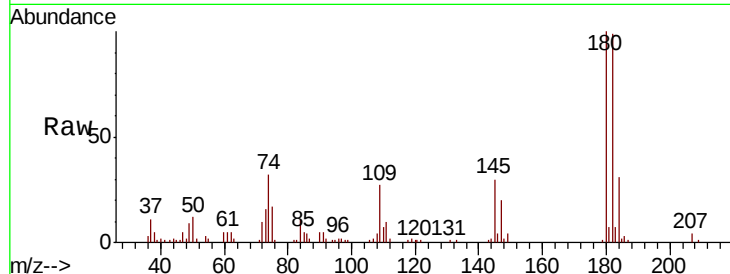
#93
1,2,4-Trichlorobenzene
Concen: 18.934 ug/l
RT: 14.91 min Scan# 4085
Delta R.T. 0.00 min
Lab File: VN052253.D
Acq: 12 Nov 2018 10:46

Instrument :
MSVOA_N
ClientSampleId :
VN1112WBS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.1	47.3	142.0
145	31.0	15.6	46.8

Manual Integrations
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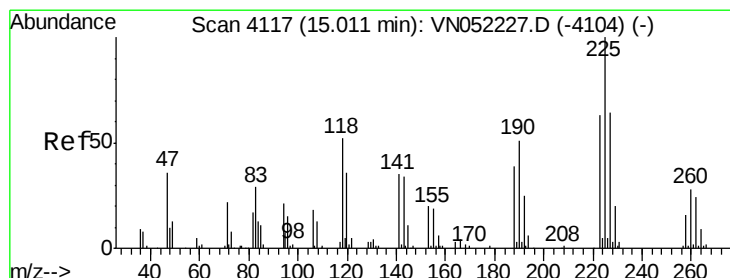
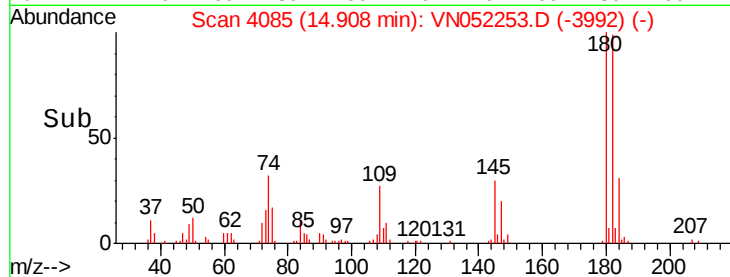
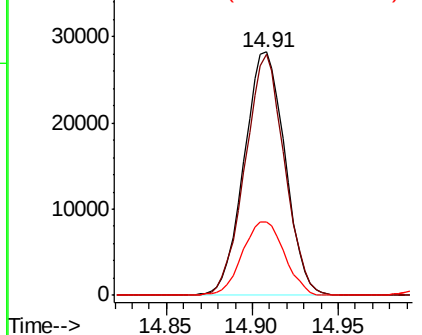


Abundance

Ion 179.80 (179.50 to 180.50): V

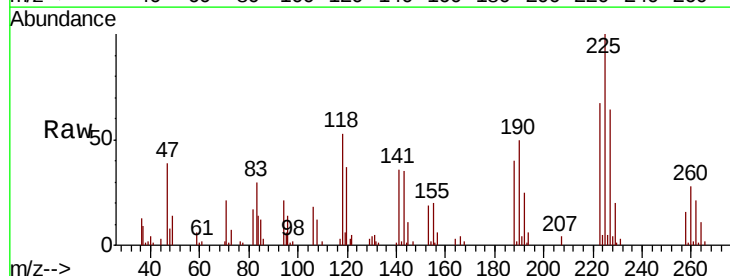
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94
Hexachlorobutadiene
Concen: 19.667 ug/l
RT: 15.01 min Scan# 4116
Delta R.T. -0.00 min
Lab File: VN052253.D
Acq: 12 Nov 2018 10:46

Tgt Ion	Ratio	Lower	Upper
225	100		
223	64.2	32.1	96.3
227	64.8	31.8	95.4

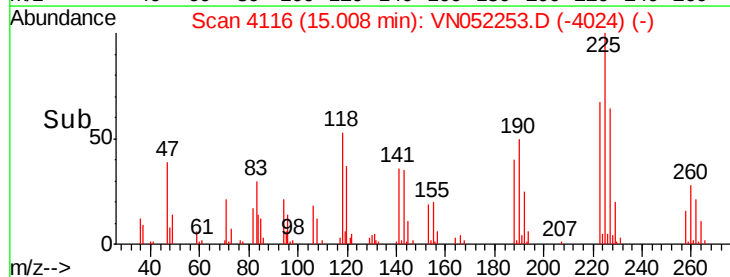
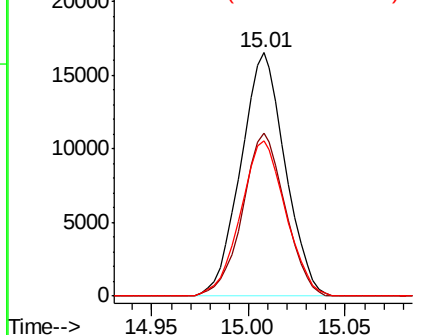


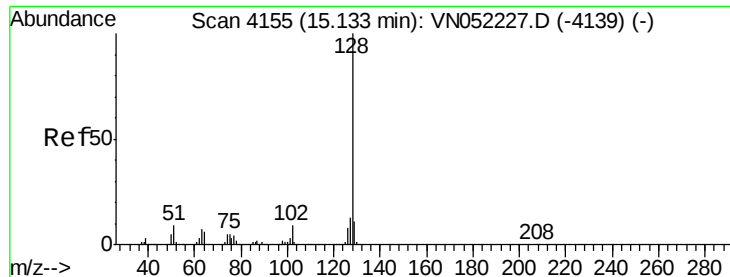
Abundance

Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 15.949 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. -0.00 min

Lab File: VN052253.D

Acq: 12 Nov 2018 10:46

Instrument :

MSVOA_N

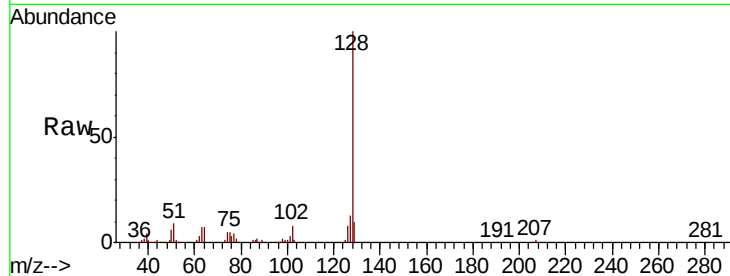
ClientSampleId :

VN1112WBS01

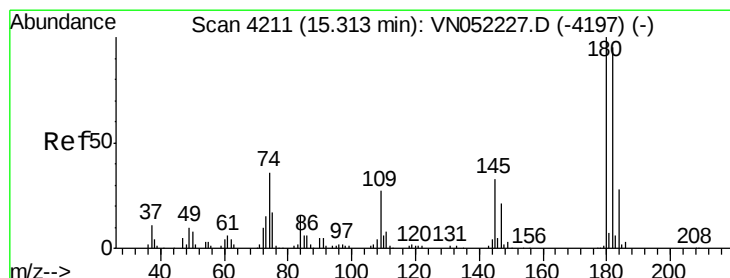
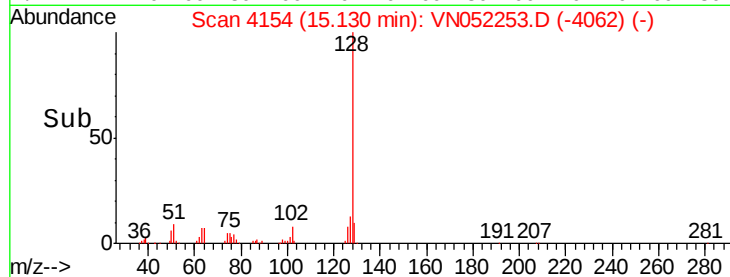
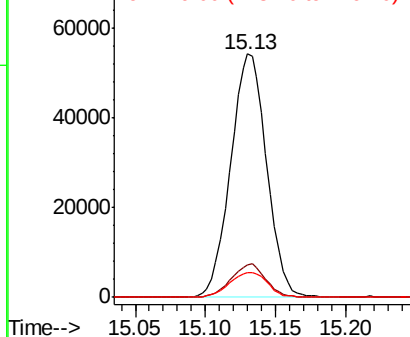
Tot Ion:	128	Resp:	96841
Ion Ratio	Lower	Upper	
128	100		
127	13.3	10.6	16.0
129	10.9	8.7	13.1

Manual Integrations
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Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 18.037 ug/l

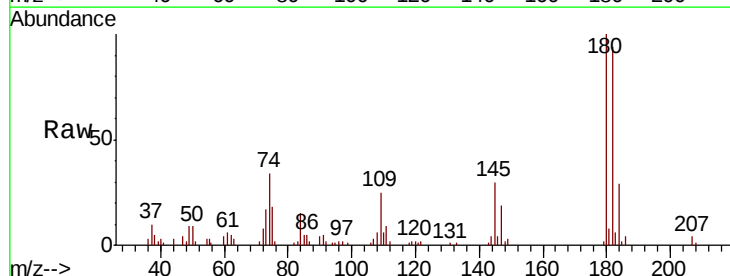
RT: 15.31 min Scan# 4210

Delta R.T. -0.00 min

Lab File: VN052253.D

Acq: 12 Nov 2018 10:46

Tgt Ion:	180	Resp:	42013
Ion Ratio	Lower	Upper	
180	100		
182	92.6	47.7	143.1
145	30.2	16.8	50.3



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.90 (144.60 to 145.60): V

