

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121318\
 Data File : VN052852.D
 Acq On : 13 Dec 2018 9:41
 Operator : MD\SY
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 2 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 12/14/2018 9:02:06 AM

Quant Time: Dec 14 02:11:46 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121218W.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 13 01:08:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	1077272	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1611463	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1446286	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	687589	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	563458	49.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.38%	
35) Dibromofluoromethane	7.59	113	466047	51.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.62%	
50) Toluene-d8	10.09	98	2026253	51.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.90%	
62) 4-Bromofluorobenzene	12.40	95	700712	53.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.04%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	562127	50.690	ug/l	100
3) Chloromethane	2.06	50	650046	48.841	ug/l	99
4) Vinyl Chloride	2.19	62	658107	49.424	ug/l	99
5) Bromomethane	2.57	94	393379	47.898	ug/l	99
6) Chloroethane	2.71	64	380365	48.327	ug/l	99
7) Trichlorofluoromethane	3.02	101	832329	50.418	ug/l	100
8) Diethyl Ether	3.41	74	301008	49.985	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.76	101	527447	51.552	ug/l	99
10) Methyl Iodide	3.96	142	706534	49.310	ug/l	99
11) Tert butyl alcohol	4.78	59	130006	203.126	ug/l	98
12) 1,1-Dichloroethene	3.74	96	498414	50.323	ug/l	98
13) Acrolein	3.61	56	124273	206.232	ug/l	100
14) Allyl chloride	4.33	41	790280	48.851	ug/l	99
15) Acrylonitrile	4.98	53	874832	243.645	ug/l	99
16) Acetone	3.81	43	701421	272.651	ug/l	99
17) Carbon Disulfide	4.06	76	1521546	50.008	ug/l	100
18) Methyl Acetate	4.32	43	449448	47.604	ug/l	100
19) Methyl tert-butyl Ether	5.04	73	1308463	48.663	ug/l	99
20) Methylene Chloride	4.55	84	554394	47.886	ug/l	99
21) trans-1,2-Dichloroethene	5.04	96	521714	48.620	ug/l	97
22) Diisopropyl ether	5.95	45	1720622	49.855	ug/l	100
23) Vinyl Acetate	5.90	43	5164112	251.466	ug/l	100
24) 1,1-Dichloroethane	5.85	63	998349	50.163	ug/l	99
25) 2-Butanone	6.83	43	983578	246.402	ug/l	98
26) 2,2-Dichloropropane	6.83	77	753962	51.443	ug/l	100
27) cis-1,2-Dichloroethene	6.83	96	606593	49.808	ug/l	99
28) Bromochloromethane	7.19	49	451395	50.509	ug/l	100
29) Tetrahydrofuran	7.21	42	652152	239.312	ug/l	99
30) Chloroform	7.37	83	962335	49.585	ug/l	99
31) Cyclohexane	7.65	56	964056	49.663	ug/l	98
32) 1,1,1-Trichloroethane	7.57	97	812770	50.053	ug/l	100
36) 1,1-Dichloropropene	7.79	75	772336	52.046	ug/l	100
37) Ethyl Acetate	6.93	43	439398	49.290	ug/l	99
38) Carbon Tetrachloride	7.77	117	723101	52.940	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	980458	53.840	ug/l	98
40) Benzene	8.04	78	2294814	51.524	ug/l	100
41) Methacrylonitrile	7.17	41	226507	45.858	ug/l	93
42) 1,2-Dichloroethane	8.12	62	683661	50.987	ug/l	99
43) Isopropyl Acetate	8.16	43	794725	43.481	ug/l #	91
44) Trichloroethene	8.83	130	617839	51.357	ug/l	98
45) 1,2-Dichloropropane	9.12	63	601981	51.602	ug/l	99
46) Dibromomethane	9.21	93	339599	50.196	ug/l	99
47) Bromodichloromethane	9.40	83	730984	52.103	ug/l	100
48) Methyl methacrylate	9.20	41	406126	50.668	ug/l	99
49) 1,4-Dioxane	9.20	88	76341	839.080	ug/l	96
51) 4-Methyl-2-Pentanone	9.98	43	2118649	252.794	ug/l	99
52) Toluene	10.16	92	1406723	52.149	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	754023	53.410	ug/l	100
54) cis-1,3-Dichloropropene	9.84	75	892068	53.027	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	483355	50.196	ug/l	99
56) Ethyl methacrylate	10.43	69	643860	52.102	ug/l	99
57) 1,3-Dichloropropane	10.71	76	843985	51.111	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.69	63	1877730	272.316	ug/l	100
59) 2-Hexanone	10.75	43	1499827	261.129	ug/l	99
60) Dibromochloromethane	10.90	129	545282	52.395	ug/l	99
61) 1,2-Dibromoethane	11.01	107	488207	51.291	ug/l	100
64) Tetrachloroethene	10.63	164	646313	51.994	ug/l	99
65) Chlorobenzene	11.43	112	1539400	51.304	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	539143	51.665	ug/l	99
67) Ethyl Benzene	11.51	91	2719251	52.772	ug/l	100
68) m/p-Xylenes	11.62	106	2062916	106.620	ug/l	100
69) o-Xylene	11.95	106	995666	52.700	ug/l	100
70) Styrene	11.96	104	1635677	53.856	ug/l	100
71) Bromoform	12.13	173	370376	52.243	ug/l #	99
73) Isopropylbenzene	12.25	105	2678933	52.182	ug/l	100
74) N-amyl acetate	12.07	43	706287	50.111	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.51	83	551262	47.913	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	482593m	47.571	ug/l	
77) Bromobenzene	12.53	156	668996	51.234	ug/l	98
78) n-propylbenzene	12.59	91	3123458	53.347	ug/l	100
79) 2-Chlorotoluene	12.67	91	1790973	51.741	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	2174012	52.458	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	169673	53.730	ug/l	98
82) 4-Chlorotoluene	12.77	91	1844528	52.119	ug/l	100
83) tert-Butylbenzene	12.99	119	1910055	52.248	ug/l	100
84) 1,2,4-Trimethylbenzene	13.04	105	2198598	52.404	ug/l	100
85) sec-Butylbenzene	13.17	105	2621736	52.954	ug/l	100
86) p-Isopropyltoluene	13.29	119	2286679	53.310	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	1201115	51.763	ug/l	100
88) 1,4-Dichlorobenzene	13.36	146	1176239	51.187	ug/l	100
89) n-Butylbenzene	13.62	91	1969995	54.556	ug/l	100
90) Hexachloroethane	13.88	117	381565	53.124	ug/l	100
91) 1,2-Dichlorobenzene	13.65	146	1138532	51.007	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	84893	48.948	ug/l	99

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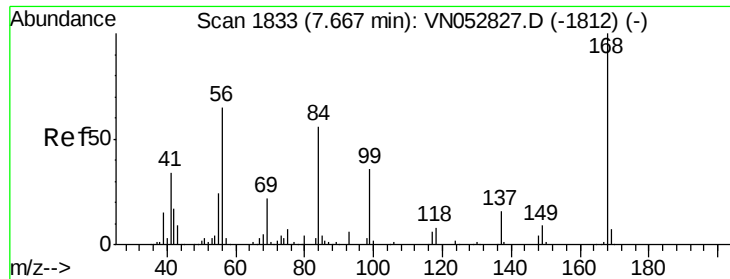
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	649309	53.515	ug/l	100
94) Hexachlorobutadiene	15.01	225	370359	52.735	ug/l	99
95) Naphthalene	15.13	128	1302539	51.832	ug/l	100
96) 1,2,3-Trichlorobenzene	15.32	180	582696	52.338	ug/l	100

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN052852.D

Acq: 13 Dec 2018 9:41

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 1077272

Ion Ratio Lower Upper

168 100

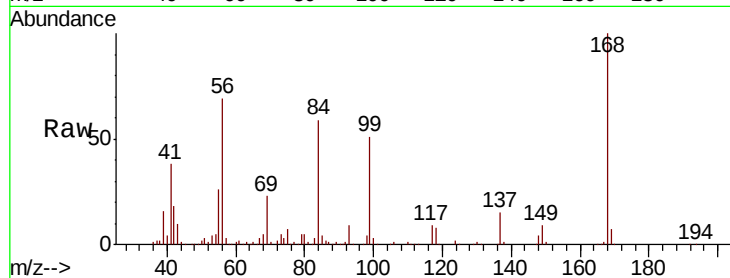
99 50.7 40.2 60.2

Manual Integrations

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12/14/2018 9:02:06 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.66

400000

300000

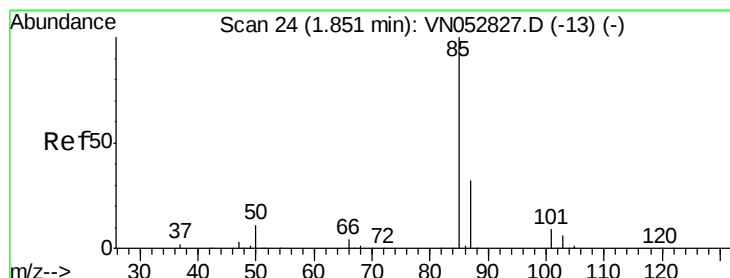
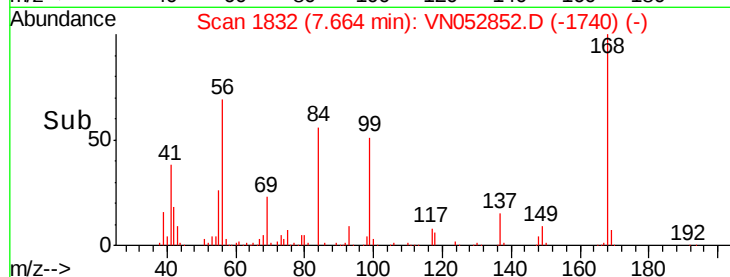
200000

100000

0

7.60 7.70 7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 50.690 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN052852.D

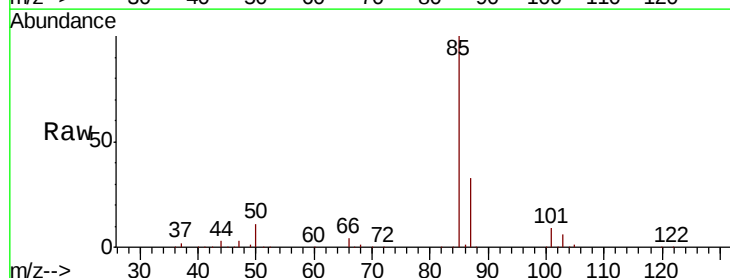
Acq: 13 Dec 2018 9:41

Tgt Ion: 85 Resp: 562127

Ion Ratio Lower Upper

85 100

87 32.6 16.3 48.8



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

1.85

400000

300000

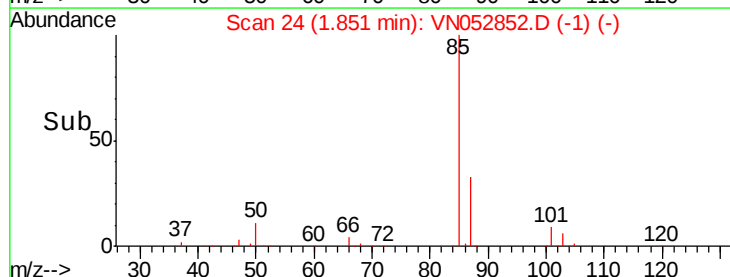
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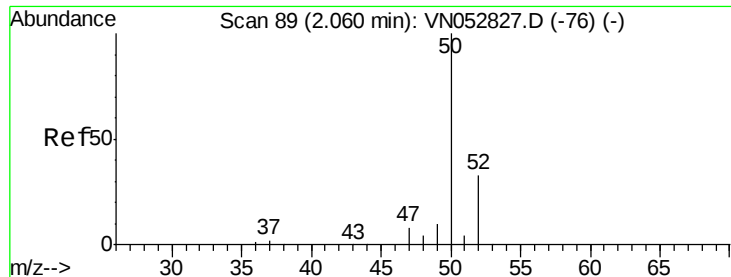
100000

0

1.75 1.80 1.85 1.90 1.95

Time-->





#3

Chloromethane

Concen: 48.841 ug/l

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN052852.D

Acq: 13 Dec 2018 9:41

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 650046

Ion Ratio Lower Upper

50 100

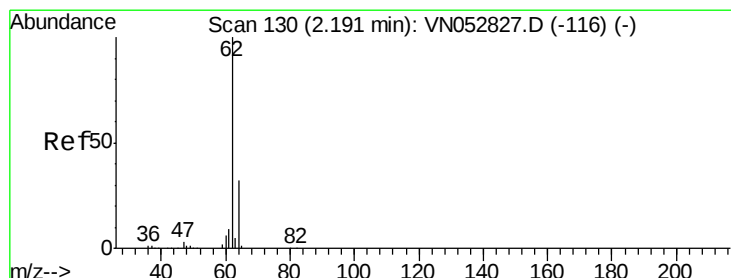
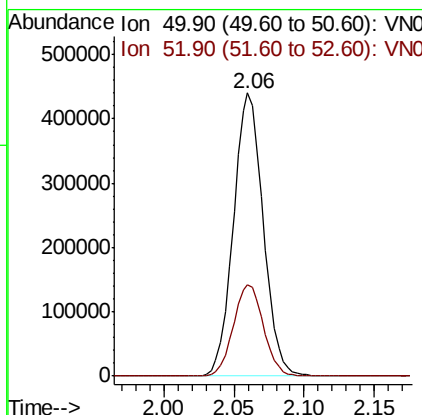
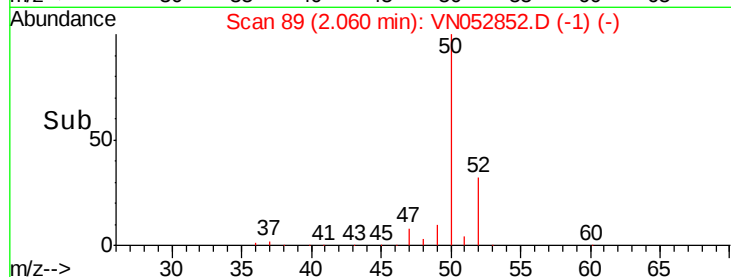
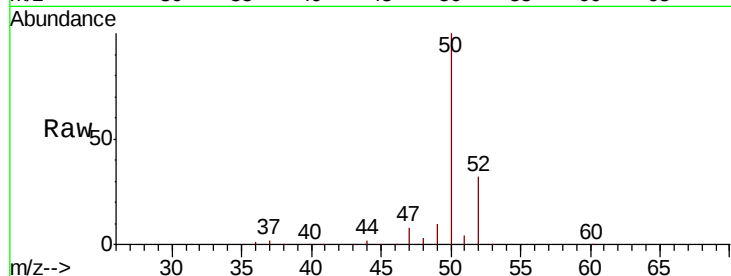
52 32.3 26.2 39.4

Manual Integrations

APPROVED

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12/14/2018 9:02:06 AM



#4

Vinyl Chloride

Concen: 49.424 ug/l

RT: 2.19 min Scan# 129

Delta R.T. -0.00 min

Lab File: VN052852.D

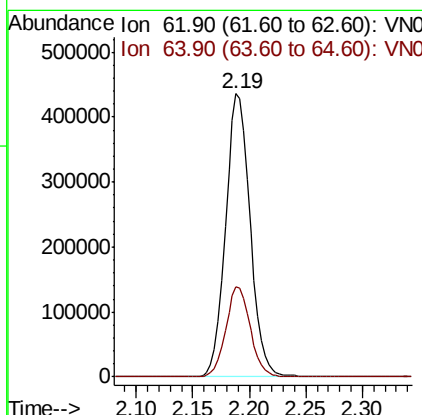
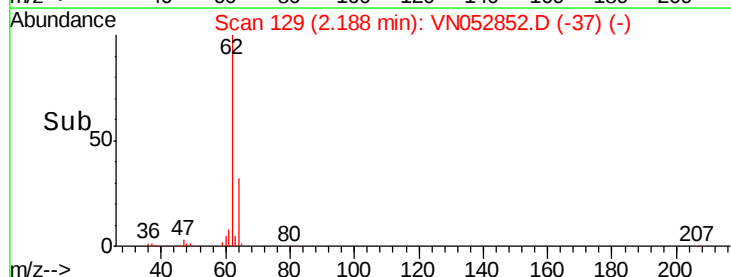
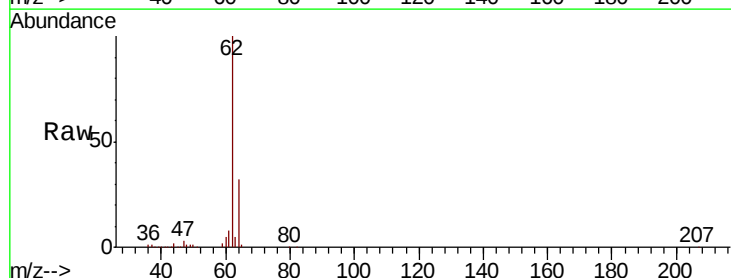
Acq: 13 Dec 2018 9:41

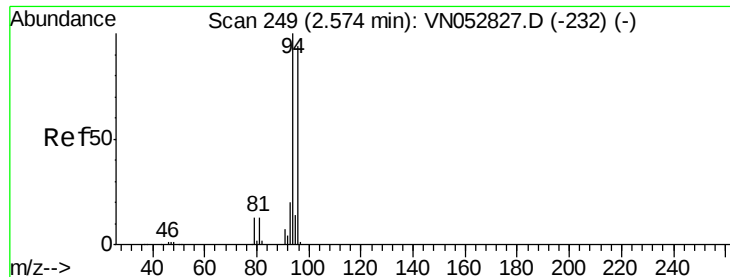
Tgt Ion: 62 Resp: 658107

Ion Ratio Lower Upper

62 100

64 31.6 25.5 38.3





#5

Bromomethane

Concen: 47.898 ug/l

RT: 2.57 min Scan# 247

Delta R.T. -0.01 min

Lab File: VN052852.D

Acq: 13 Dec 2018 9:41

Instrument :

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ClientSampleId :

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Tot Ion: 94 Resp: 393379

Ion Ratio Lower Upper

94 100

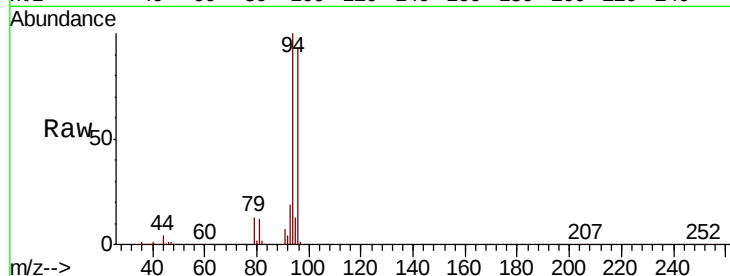
96 92.9 75.0 112.4

Manual Integrations

APPROVED

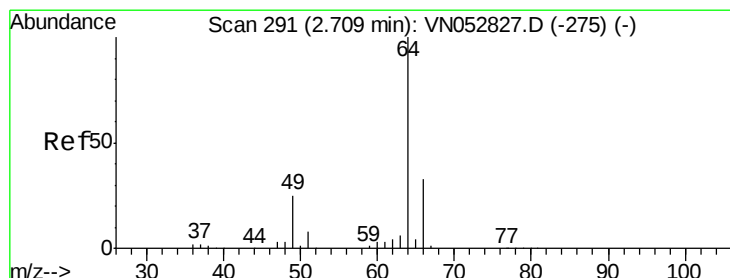
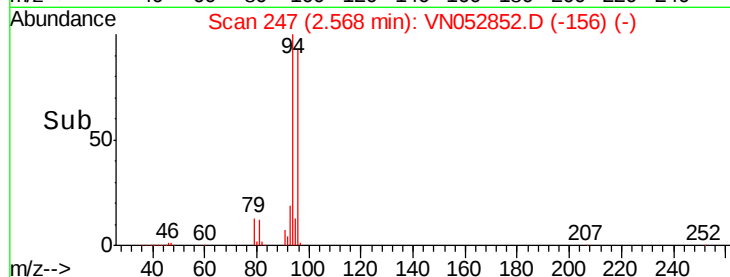
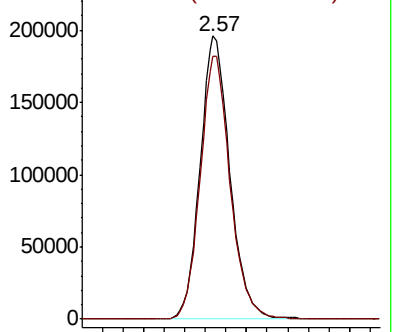
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12/14/2018 9:02:06 AM



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO



#6

Chloroethane

Concen: 48.327 ug/l

RT: 2.71 min Scan# 291

Delta R.T. 0.00 min

Lab File: VN052852.D

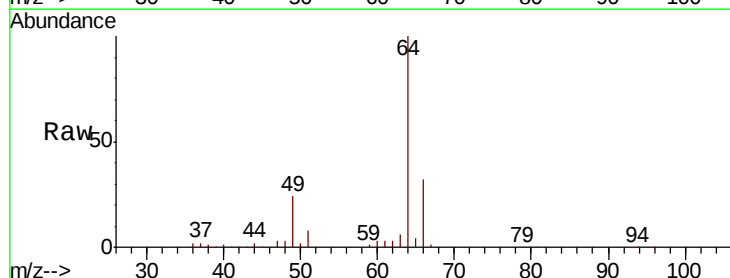
Acq: 13 Dec 2018 9:41

Tgt Ion: 64 Resp: 380365

Ion Ratio Lower Upper

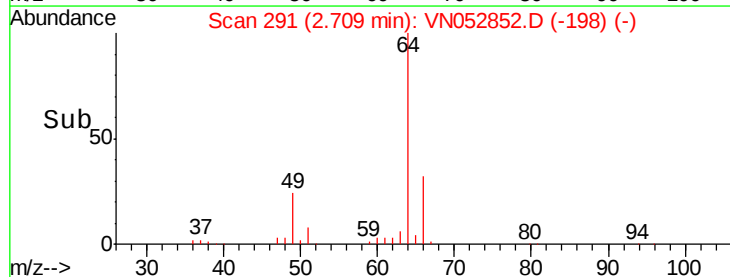
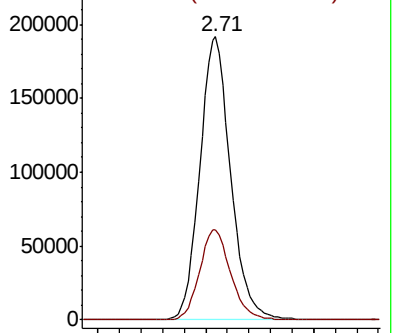
64 100

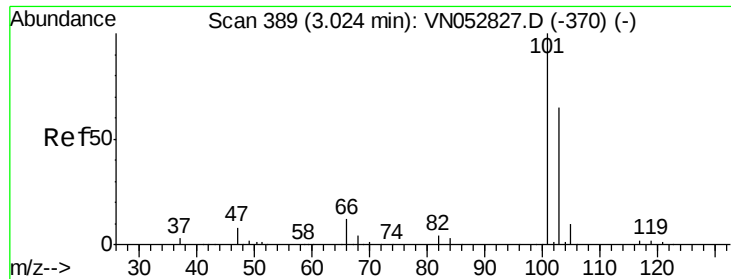
66 31.9 26.2 39.2



Abundance Ion 63.90 (63.60 to 64.60): VNO

Ion 65.90 (65.60 to 66.60): VNO





#7

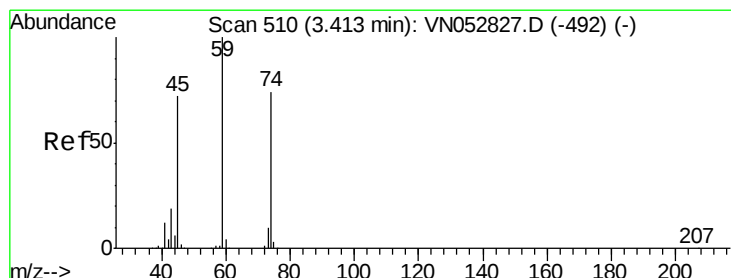
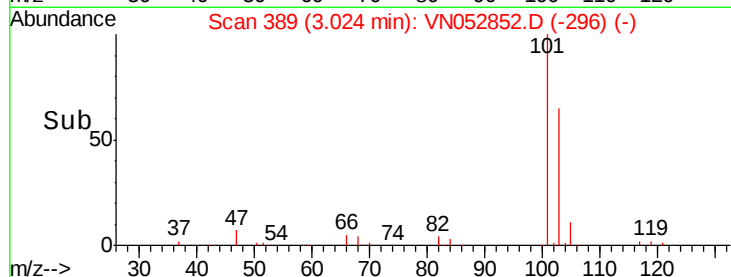
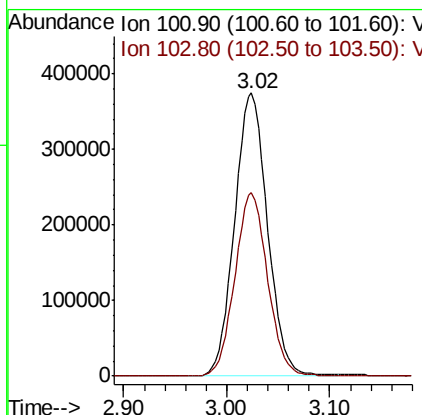
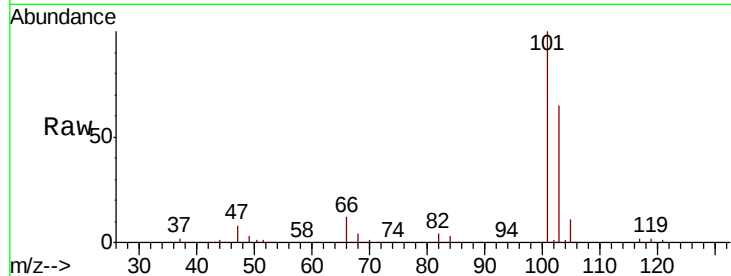
Trichlorofluoromethane
Concen: 50.418 ug/l
RT: 3.02 min Scan# 389
Delta R.T. 0.00 min
Lab File: VN052852.D
Acq: 13 Dec 2018 9:41

Instrument :
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ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.6	51.8	77.6

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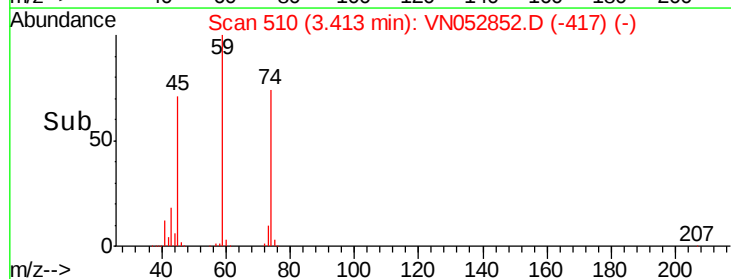
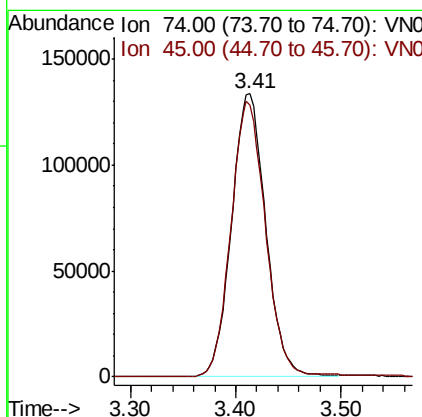
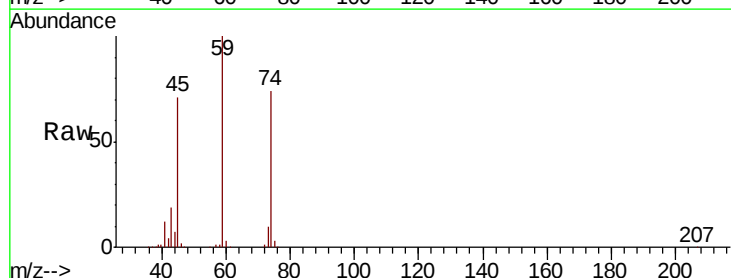
MMDadoda
12/14/2018 9:02:06 AM

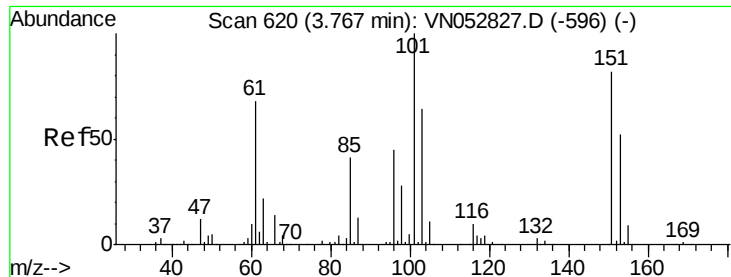


#8

Diethyl Ether
Concen: 49.985 ug/l
RT: 3.41 min Scan# 510
Delta R.T. 0.00 min
Lab File: VN052852.D
Acq: 13 Dec 2018 9:41

Tgt Ion	Ratio	Lower	Upper
74	100		
45	97.2	49.4	148.0





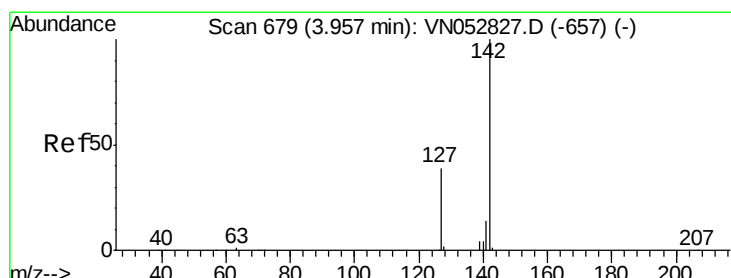
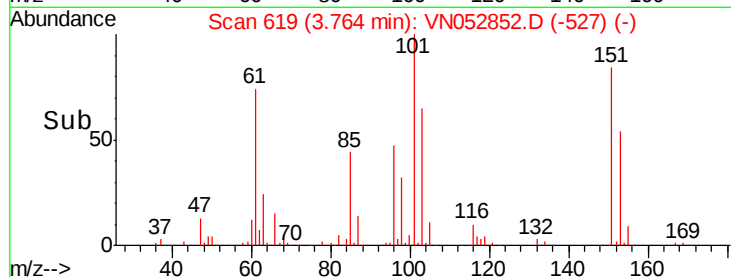
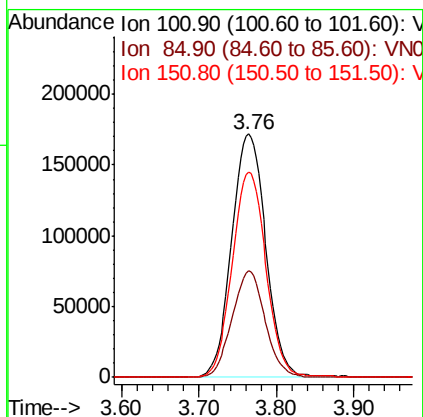
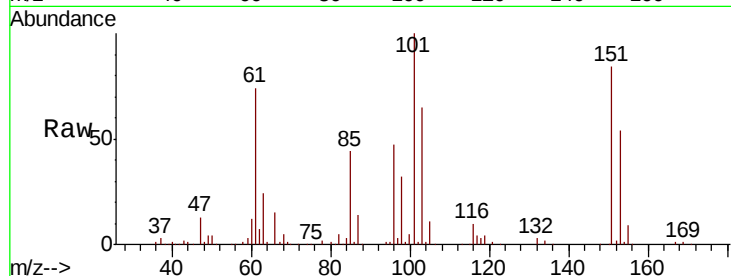
#9
1,1,2-Trichlorotrifluoroethane
Concen: 51.552 ug/l
RT: 3.76 min Scan# 619
Delta R.T. -0.00 min
Lab File: VN052852.D
Acq: 13 Dec 2018 9:41

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
101	100	527447		
85	42.2		33.6	50.4
151	83.2		65.5	98.3

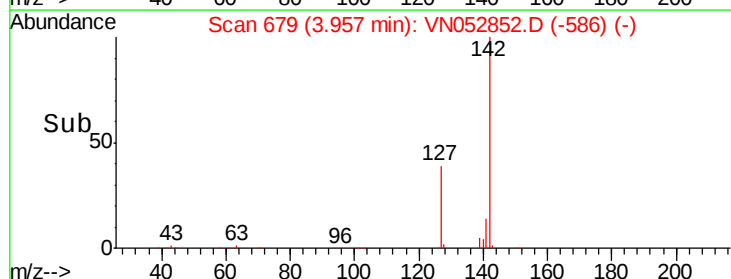
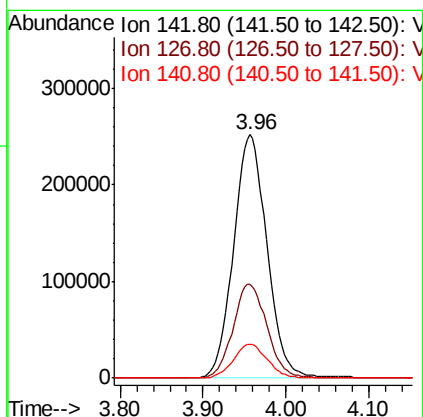
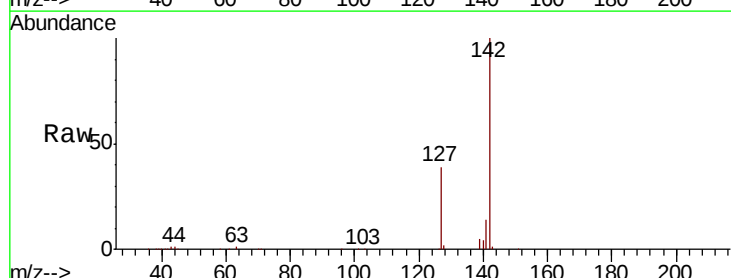
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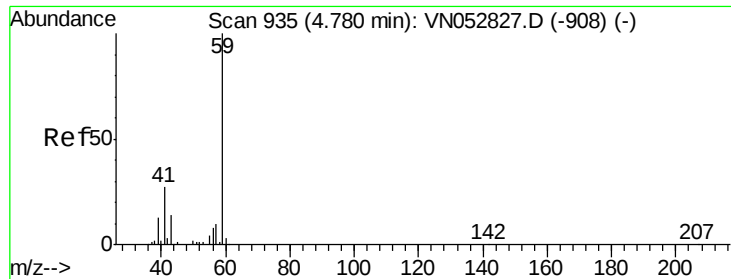
MMDadoda
12/14/2018 9:02:06 AM



#10
Methyl Iodide
Concen: 49.310 ug/l
RT: 3.96 min Scan# 679
Delta R.T. 0.00 min
Lab File: VN052852.D
Acq: 13 Dec 2018 9:41

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	706534		
127	39.4		31.0	46.6
141	14.2		11.2	16.8





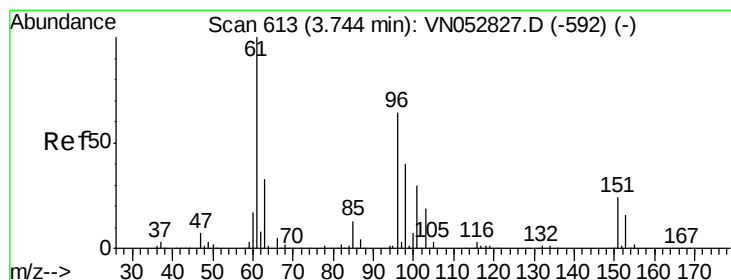
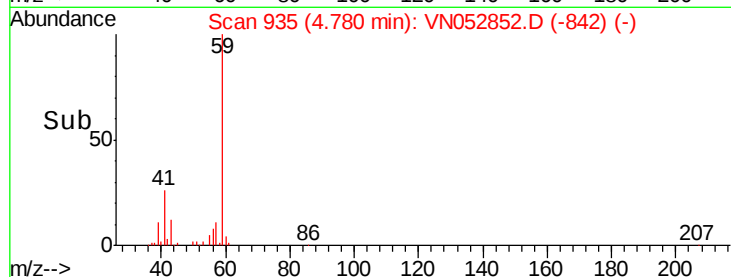
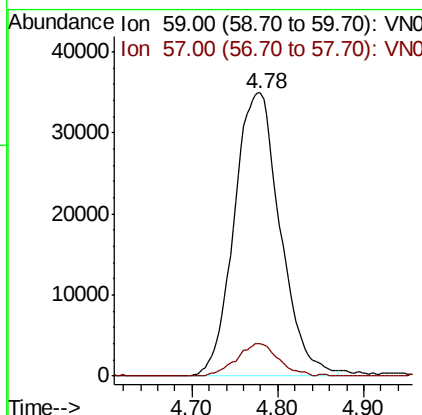
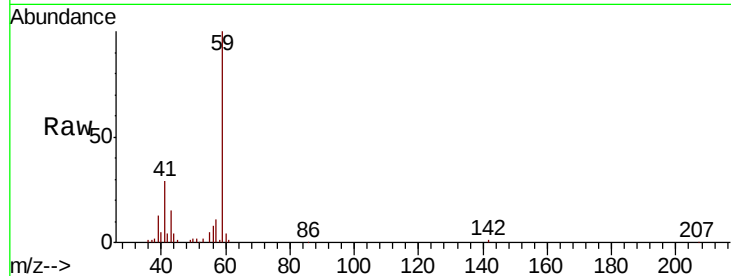
#11
Tert butyl alcohol
Concen: 203.126 ug/l
RT: 4.78 min Scan# 935
Delta R.T. 0.00 min
Lab File: VN052852.D
Acq: 13 Dec 2018 9:41

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	59	Resp	130006
Ion Ratio	100	Lower	Upper
57	10.5	7.7	11.5

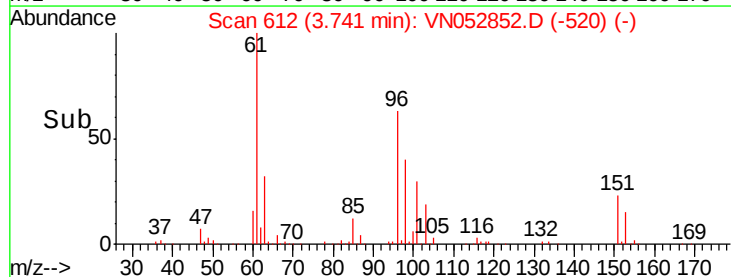
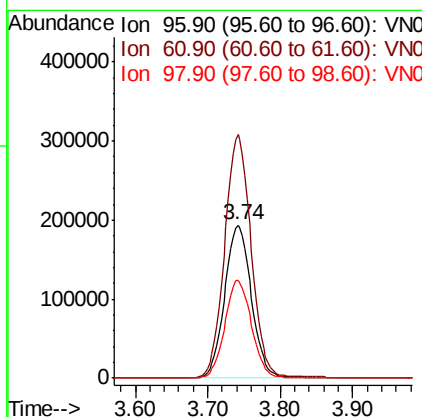
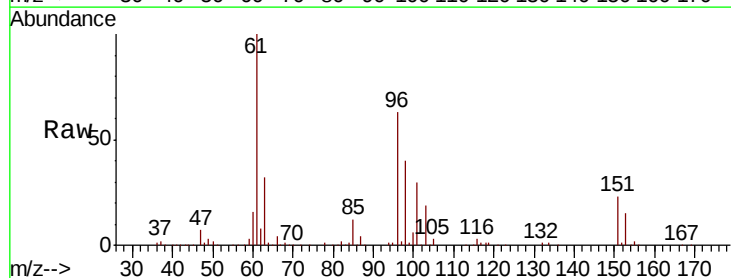
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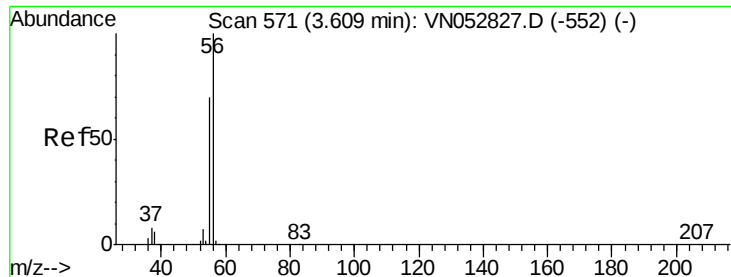
MMDadoda
12/14/2018 9:02:06 AM



#12
1,1-Dichloroethene
Concen: 50.323 ug/l
RT: 3.74 min Scan# 612
Delta R.T. -0.00 min
Lab File: VN052852.D
Acq: 13 Dec 2018 9:41

Tgt Ion	96	Resp	498414
Ion Ratio	100	Lower	Upper
61	159.4	125.6	188.4
98	64.2	50.6	75.8





#13

Acrolein

Concen: 206.232 ug/l

RT: 3.61 min Scan# 570

Delta R.T. -0.00 min

Lab File: VN052852.D

Acq: 13 Dec 2018 9:41

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 124273

Ion Ratio Lower Upper

56 100

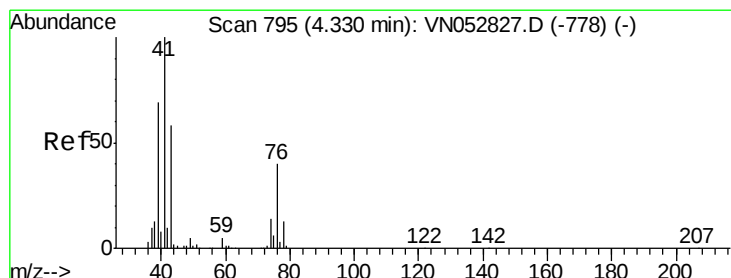
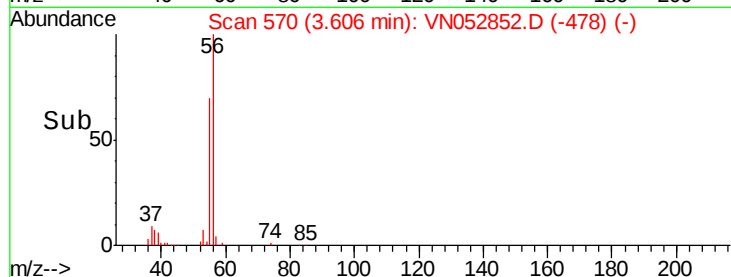
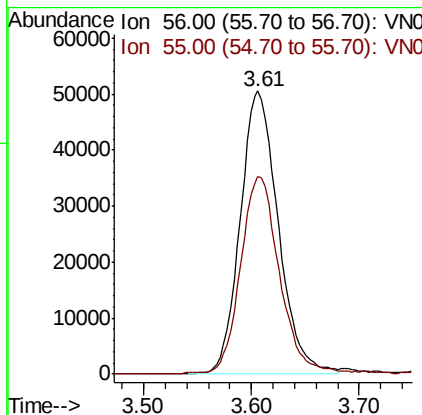
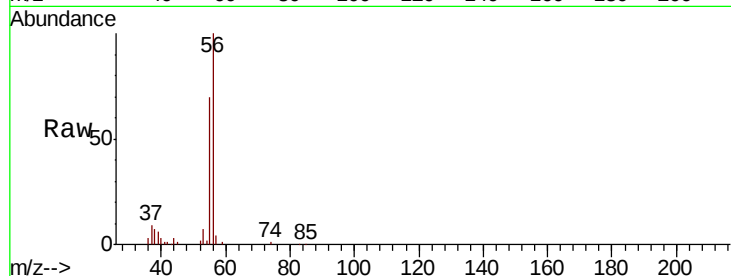
55 70.4 56.6 85.0

Manual Integrations

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12/14/2018 9:02:06 AM



#14

Allyl chloride

Concen: 48.851 ug/l

RT: 4.33 min Scan# 794

Delta R.T. -0.00 min

Lab File: VN052852.D

Acq: 13 Dec 2018 9:41

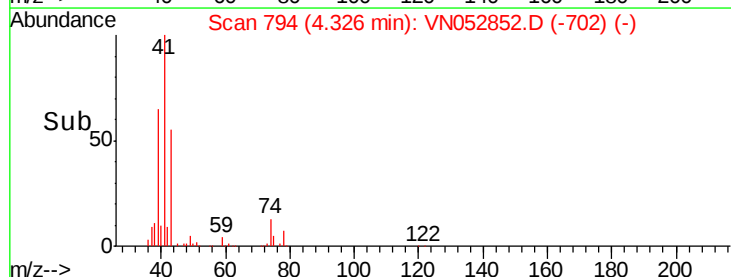
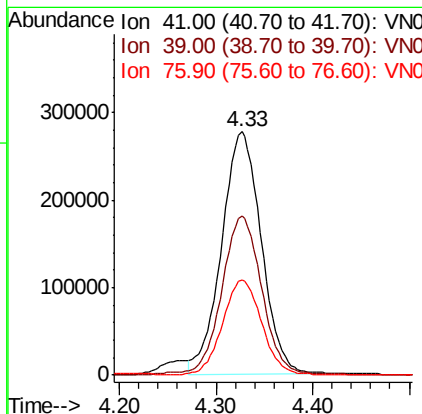
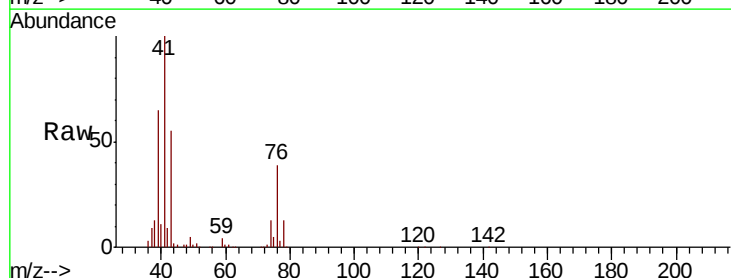
Tgt Ion: 41 Resp: 790280

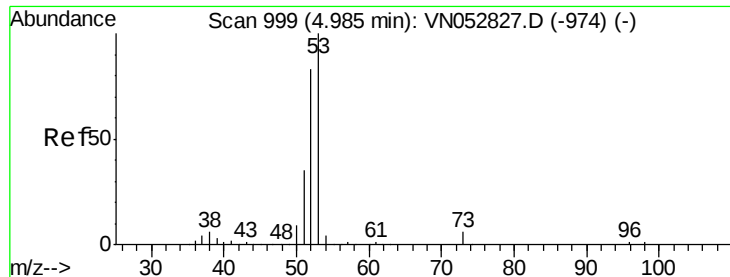
Ion Ratio Lower Upper

41 100

39 66.9 54.1 81.1

76 37.8 30.3 45.5





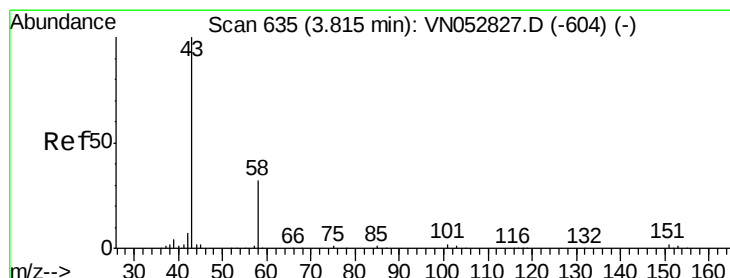
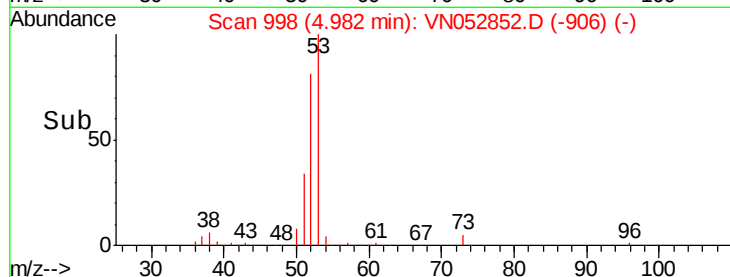
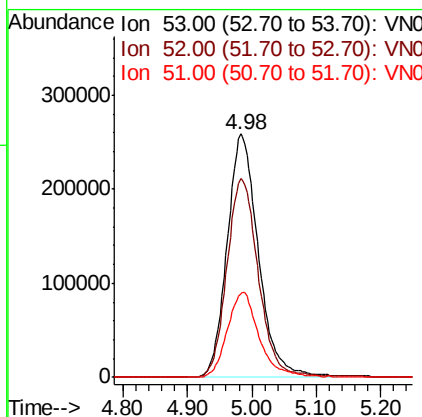
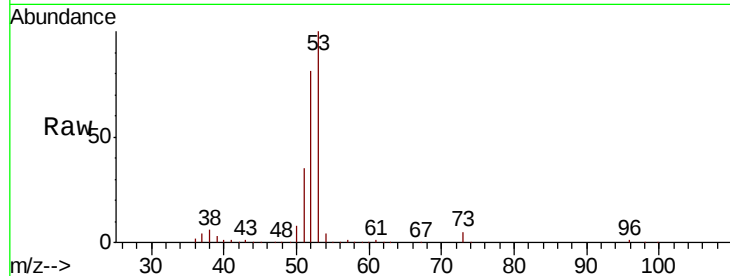
#15
 Acrylonitrile
 Concen: 243.645 ug/l
 RT: 4.98 min Scan# 998
 Delta R.T. -0.00 min
 Lab File: VN052852.D
 Acq: 13 Dec 2018 9:41

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
53	100		
52	81.9	65.1	97.7
51	35.6	28.1	42.1

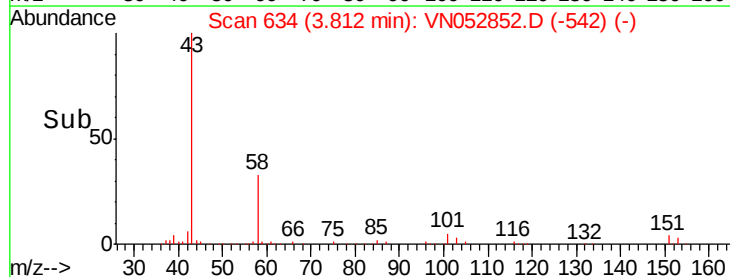
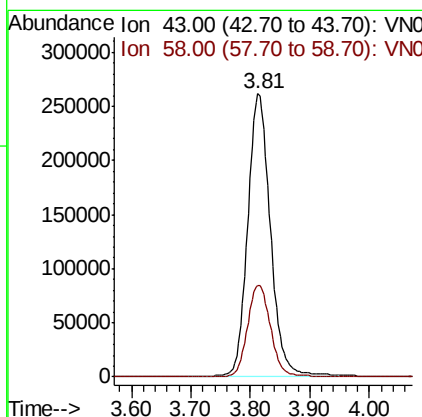
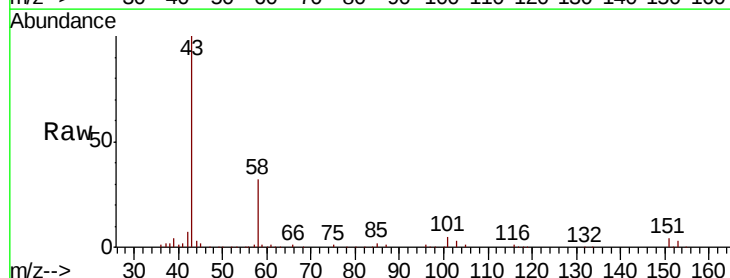
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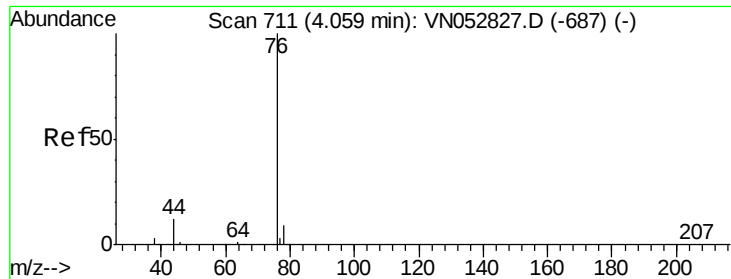
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 12/14/2018 9:02:06 AM



#16
 Acetone
 Concen: 272.651 ug/l
 RT: 3.81 min Scan# 634
 Delta R.T. -0.00 min
 Lab File: VN052852.D
 Acq: 13 Dec 2018 9:41

Tgt Ion	Ratio	Lower	Upper
43	100		
58	32.4	25.4	38.0





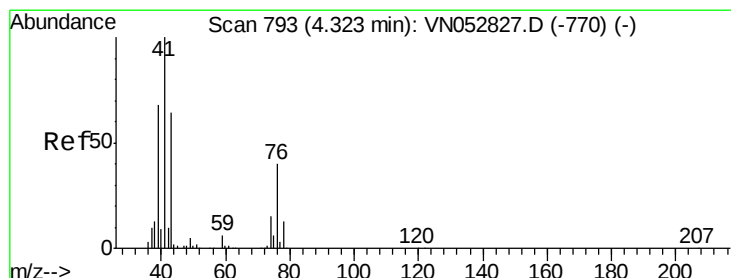
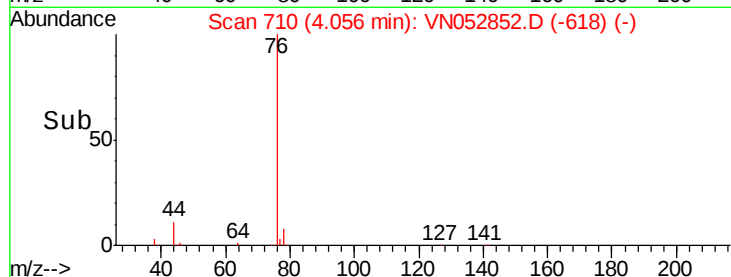
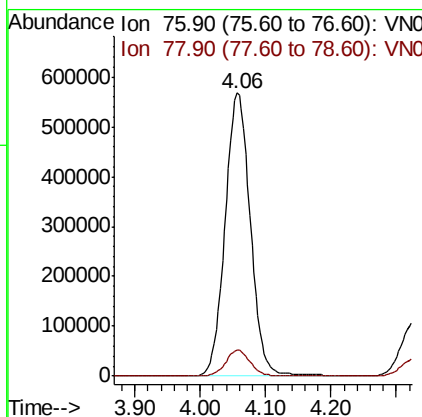
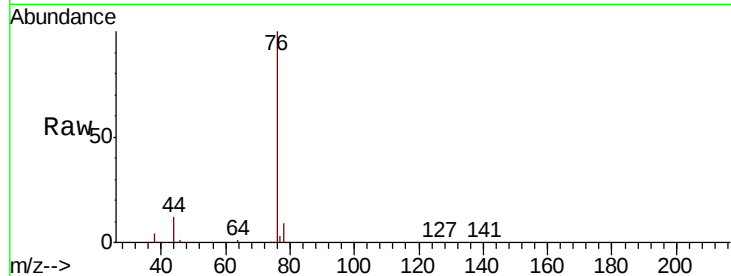
#17
Carbon Disulfide
Concen: 50.008 ug/l
RT: 4.06 min Scan# 710
Delta R.T. -0.00 min
Lab File: VN052852.D
Acq: 13 Dec 2018 9:41

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 76 Resp: 1521546
Ion Ratio Lower Upper
76 100
78 9.1 7.1 10.7

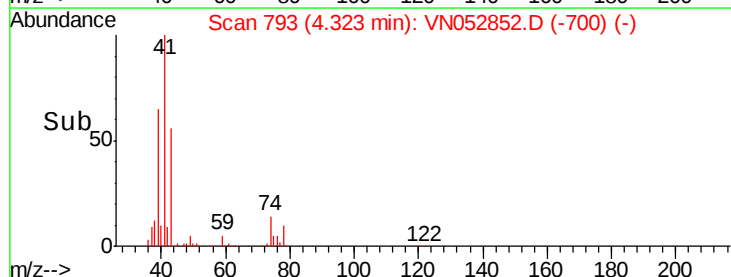
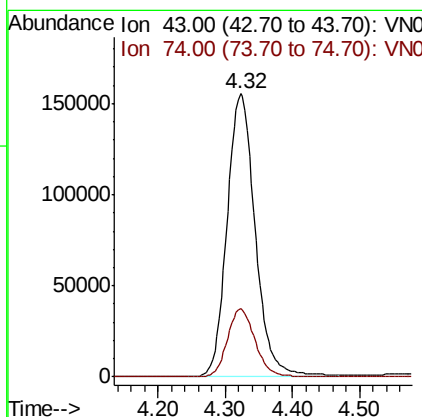
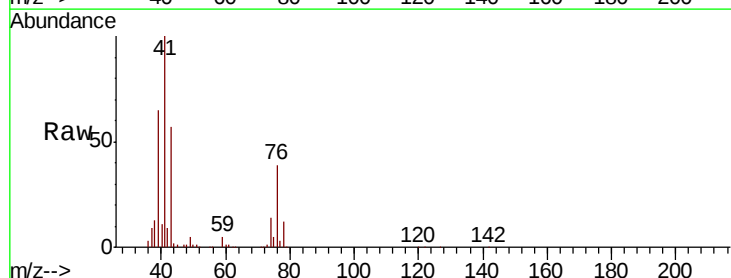
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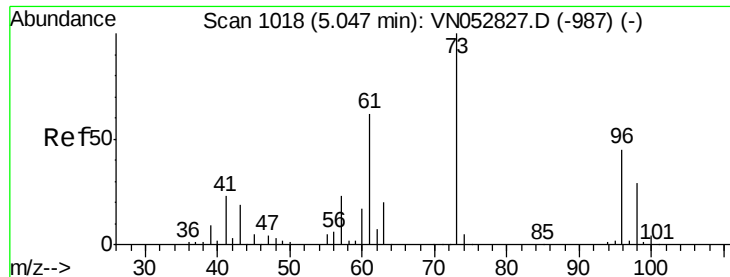
MMDadoda
12/14/2018 9:02:06 AM



#18
Methyl Acetate
Concen: 47.604 ug/l
RT: 4.32 min Scan# 793
Delta R.T. 0.00 min
Lab File: VN052852.D
Acq: 13 Dec 2018 9:41

Tgt Ion: 43 Resp: 449448
Ion Ratio Lower Upper
43 100
74 24.0 19.2 28.8





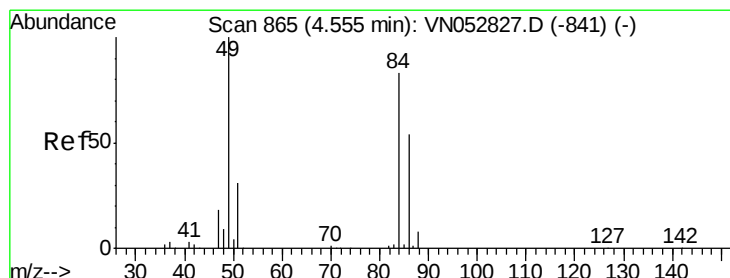
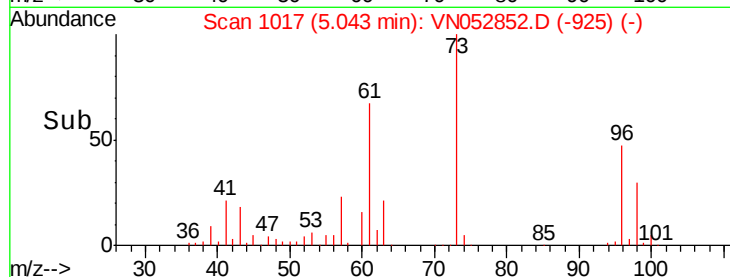
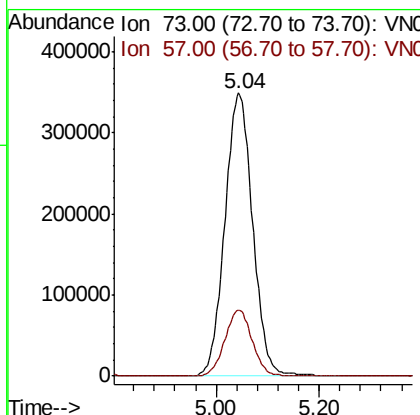
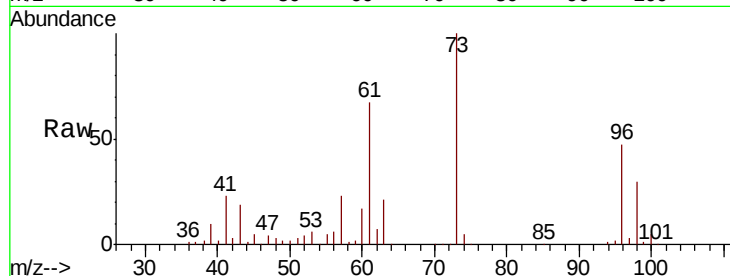
#19
Methvl tert-butvl Ether
Concen: 48.663 ug/l
RT: 5.04 min Scan# 1017
Delta R.T. -0.00 min
Lab File: VN052852.D
Acq: 13 Dec 2018 9:41

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 73 Resp: 1308463
Ion Ratio Lower Upper
73 100
57 23.2 18.4 27.6

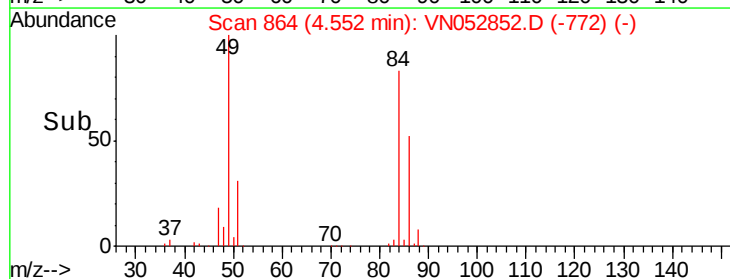
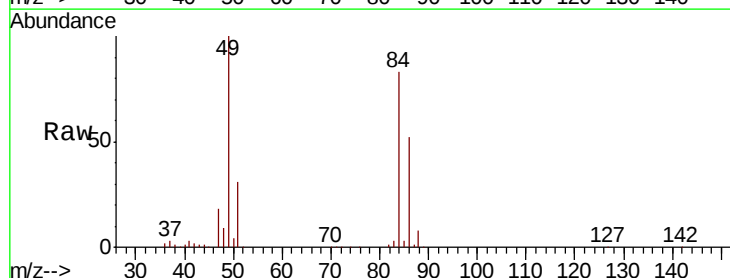
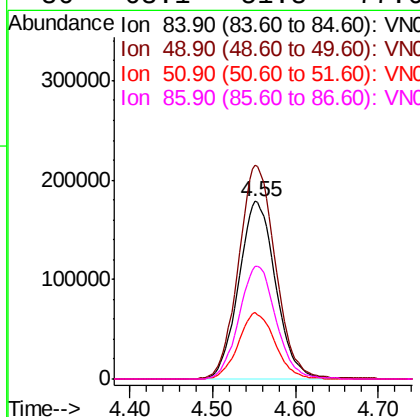
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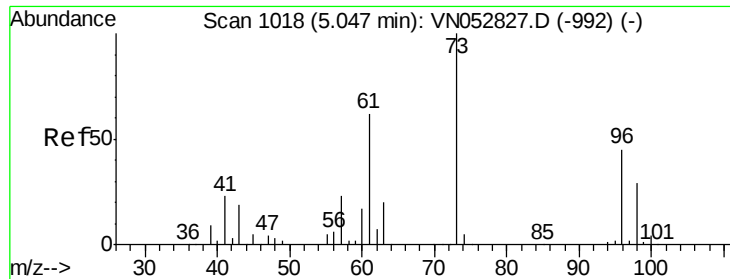
MMDadoda
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#20
Methylene Chloride
Concen: 47.886 ug/l
RT: 4.55 min Scan# 864
Delta R.T. -0.00 min
Lab File: VN052852.D
Acq: 13 Dec 2018 9:41

Tgt Ion: 84 Resp: 554394
Ion Ratio Lower Upper
84 100
49 120.2 96.8 145.2
51 37.2 29.9 44.9
86 63.1 51.8 77.6





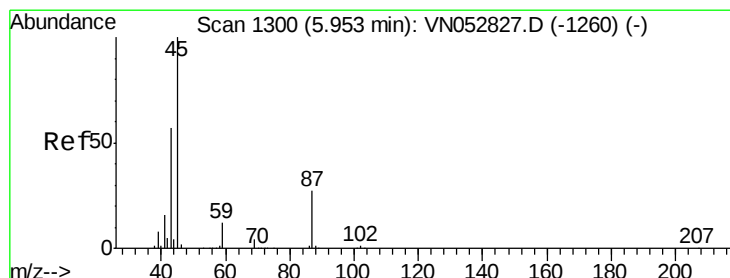
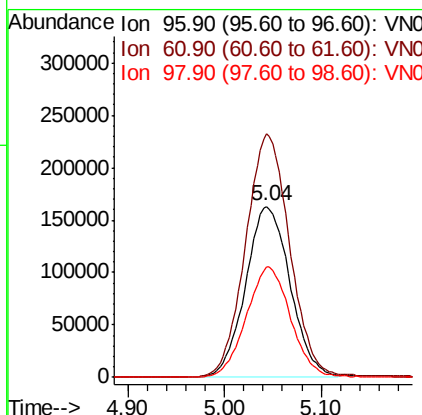
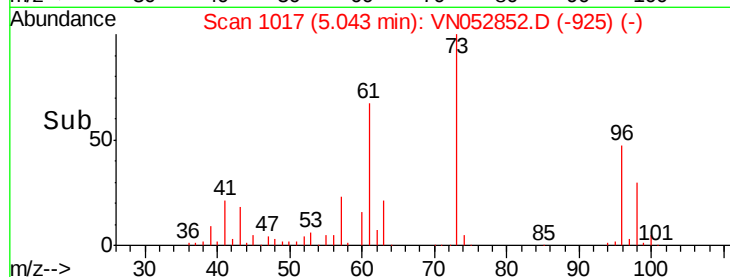
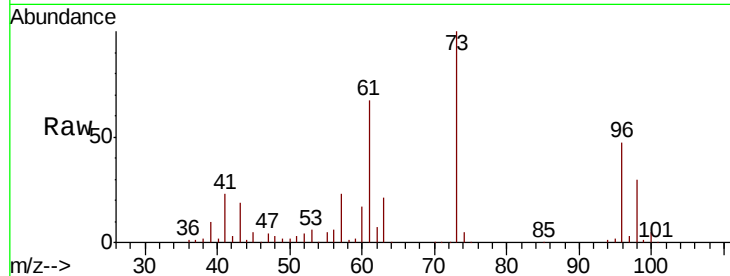
#21
trans-1,2-Dichloroethene
Concen: 48.620 ug/l
RT: 5.04 min Scan# 1017
Delta R.T. -0.00 min
Lab File: VN052852.D
Acq: 13 Dec 2018 9:41

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
96	100		
61	142.7	110.8	166.2
98	64.7	51.4	77.2

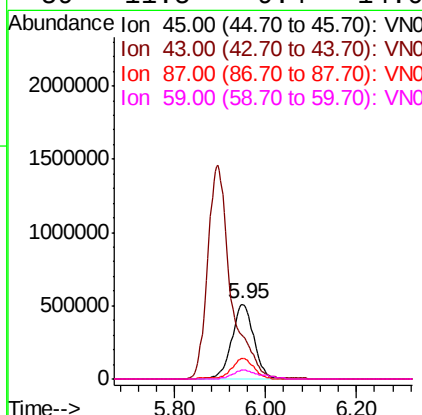
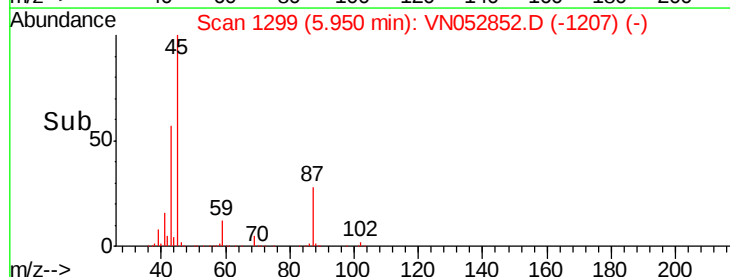
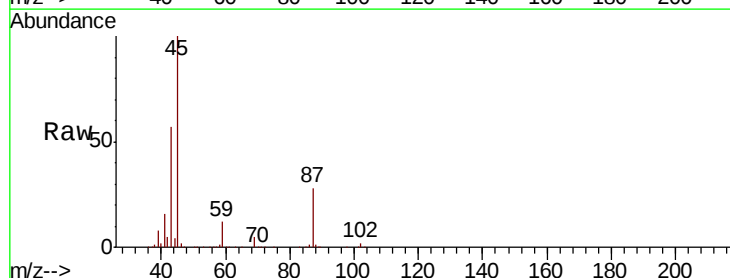
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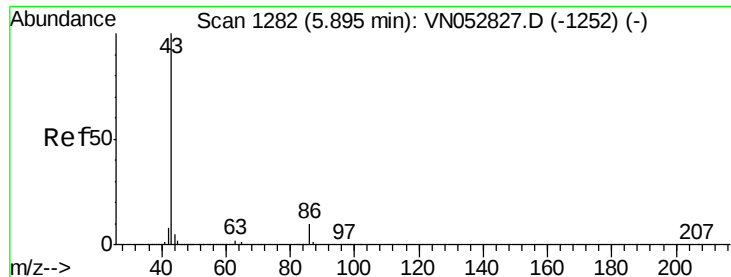
MMDadoda
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#22
Diisopropyl ether
Concen: 49.855 ug/l
RT: 5.95 min Scan# 1299
Delta R.T. -0.00 min
Lab File: VN052852.D
Acq: 13 Dec 2018 9:41

Tgt Ion	Ratio	Lower	Upper
45	100		
43	56.9	45.5	68.3
87	27.8	22.0	33.0
59	11.5	9.4	14.0





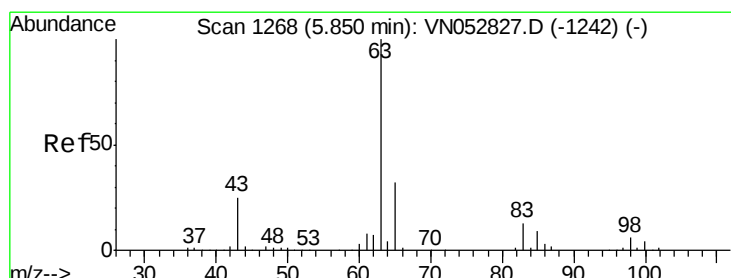
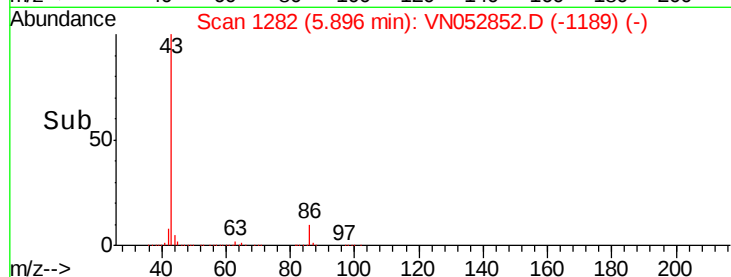
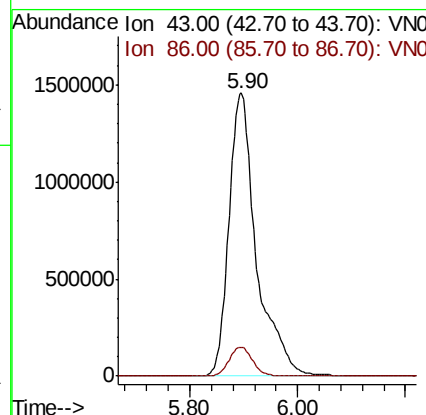
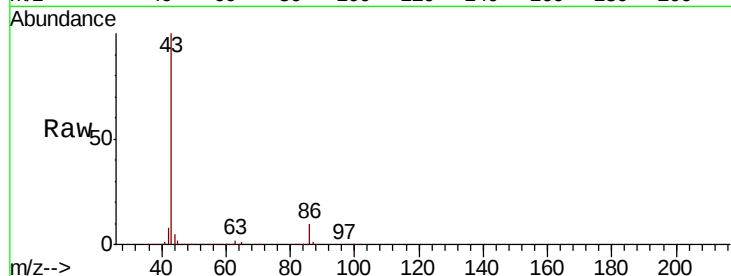
#23
 Vinyl Acetate
 Concen: 251.466 ug/l
 RT: 5.90 min Scan# 1282
 Delta R.T. 0.00 min
 Lab File: VN052852.D
 Acq: 13 Dec 2018 9:41

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion: 43 Resp: 5164112
 Ion Ratio Lower Upper
 43 100
 86 10.2 8.1 12.1

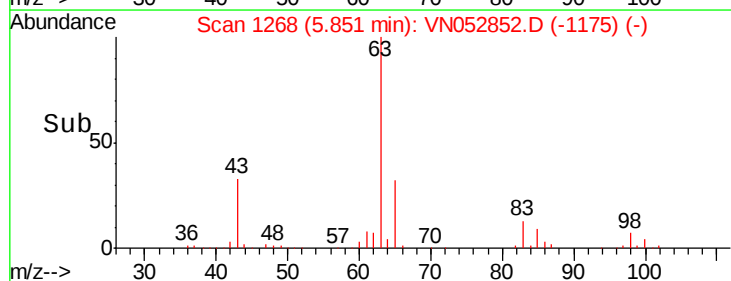
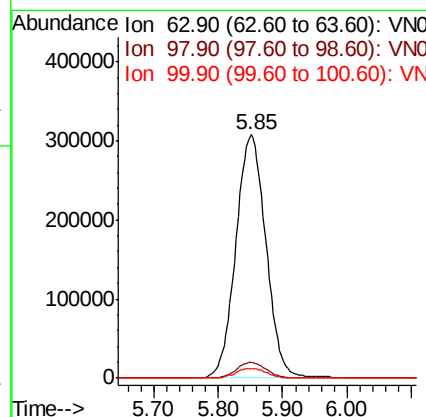
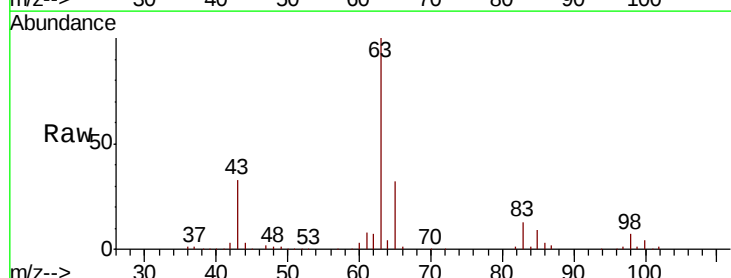
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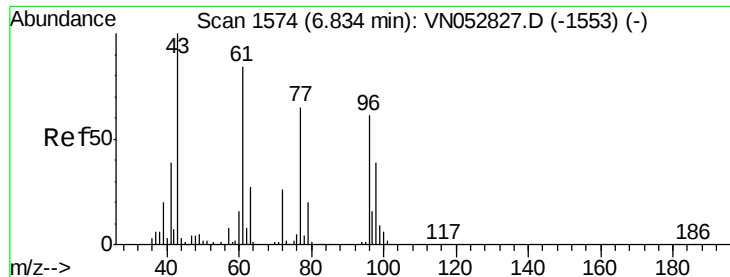
MMDadoda
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#24
 1,1-Dichloroethane
 Concen: 50.163 ug/l
 RT: 5.85 min Scan# 1268
 Delta R.T. 0.00 min
 Lab File: VN052852.D
 Acq: 13 Dec 2018 9:41

Tgt Ion: 63 Resp: 998349
 Ion Ratio Lower Upper
 63 100
 98 6.6 3.1 9.4
 100 4.0 2.0 5.8





#25

2-Butanone

Concen: 246.402 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. 0.00 min

Lab File: VN052852.D

Acq: 13 Dec 2018 9:41

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 983578

Ion Ratio Lower Upper

43 100

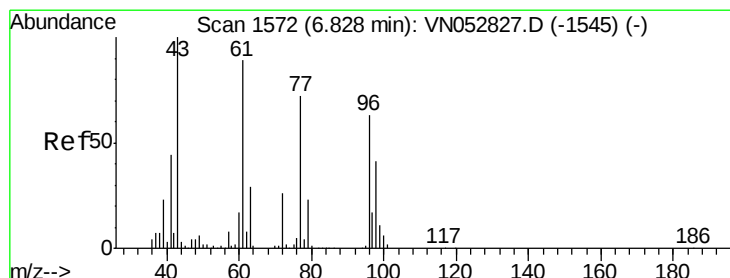
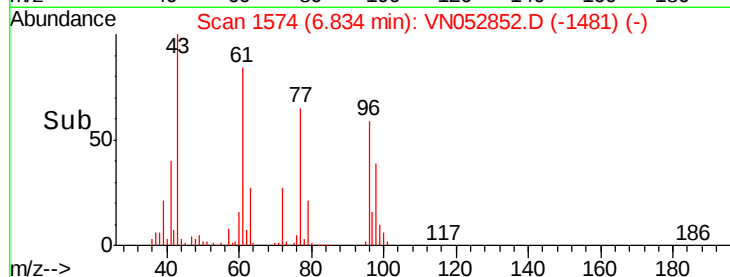
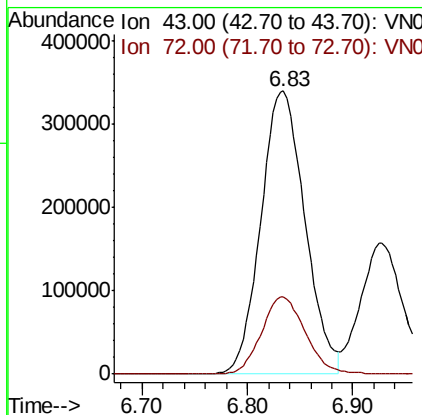
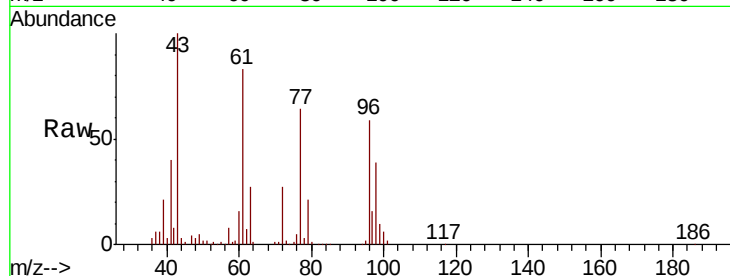
72 27.3 21.0 31.6

Manual Integrations

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MMDadoda

12/14/2018 9:02:06 AM



#26

2,2-Dichloropropane

Concen: 51.443 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VN052852.D

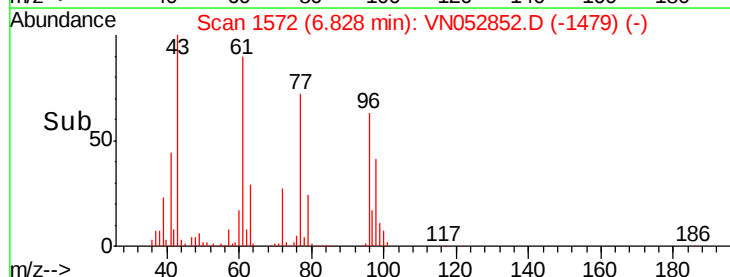
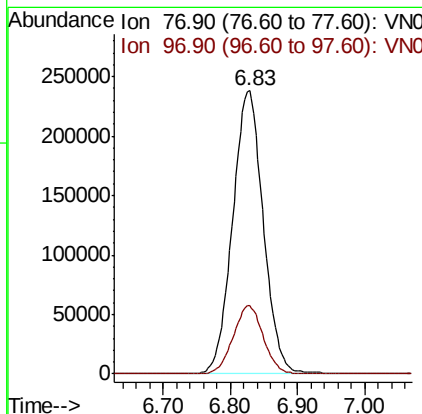
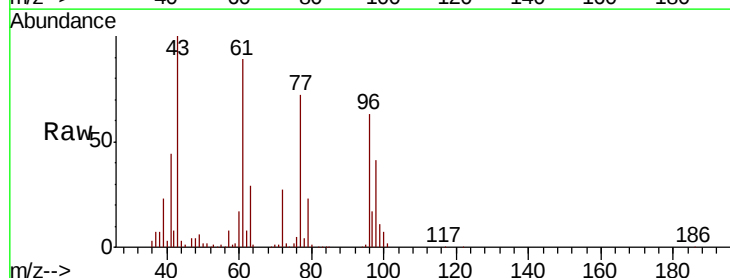
Acq: 13 Dec 2018 9:41

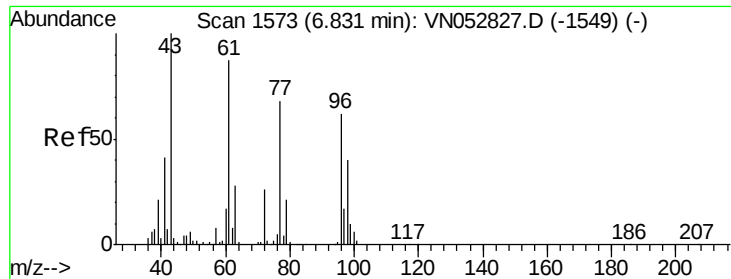
Tgt Ion: 77 Resp: 753962

Ion Ratio Lower Upper

77 100

97 23.7 11.9 35.9





#27

cis-1,2-Dichloroethene

Concen: 49.808 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. -0.00 min

Lab File: VN052852.D

Acq: 13 Dec 2018 9:41

Instrument :

MSVOA_N

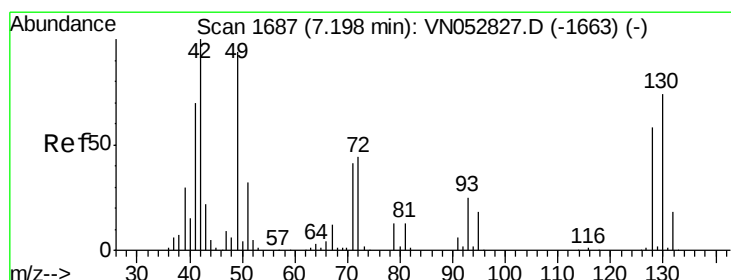
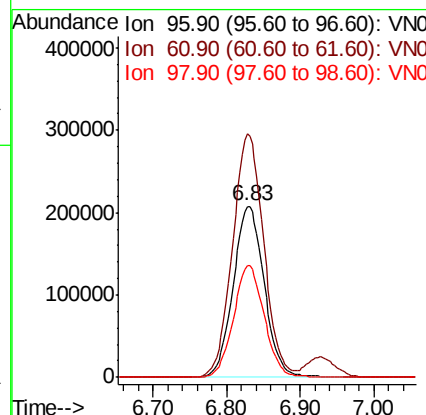
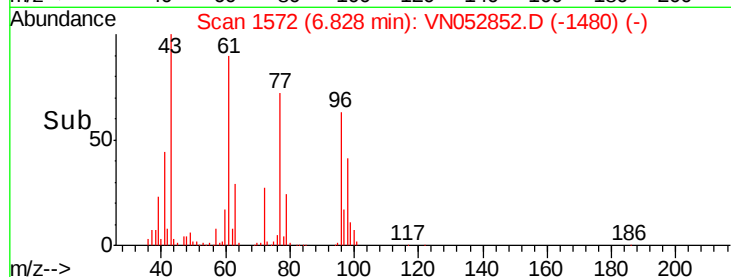
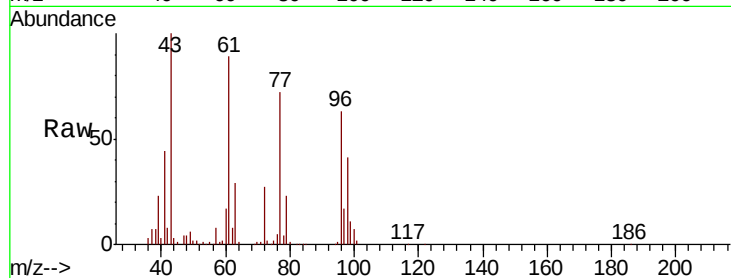
ClientSampleId :

VSTDCCC050

Tot Ion:	96	Resp:	606593
Ion Ratio	Lower	Upper	
96	100		
61	143.1	0.0	284.2
98	65.1	0.0	129.2

Manual Integrations
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#28

Bromochloromethane

Concen: 50.509 ug/l

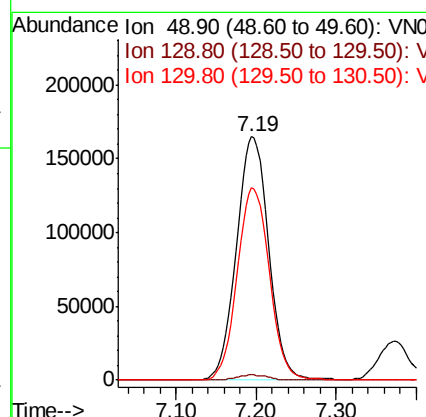
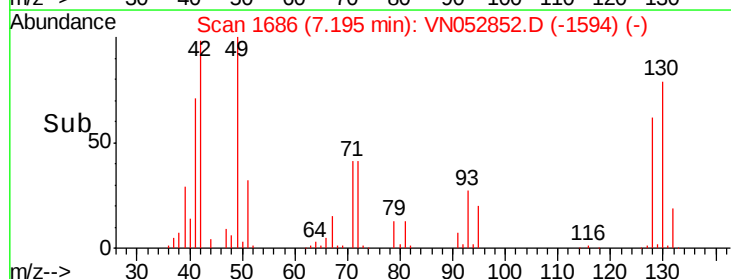
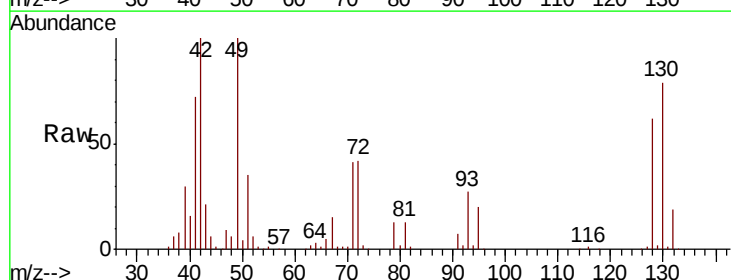
RT: 7.19 min Scan# 1686

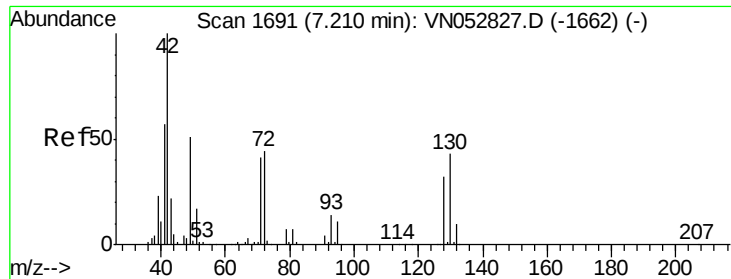
Delta R.T. -0.00 min

Lab File: VN052852.D

Acq: 13 Dec 2018 9:41

Tgt Ion:	49	Resp:	451395
Ion Ratio	Lower	Upper	
49	100		
129	2.0	0.0	4.0
130	79.0	63.3	94.9





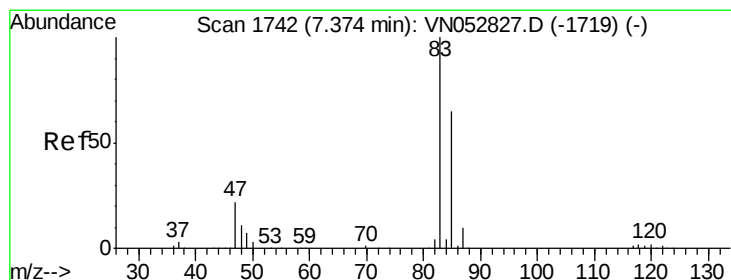
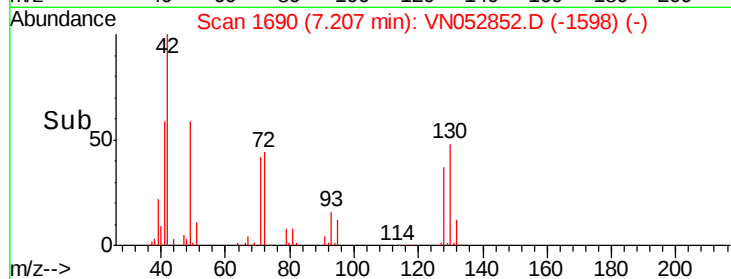
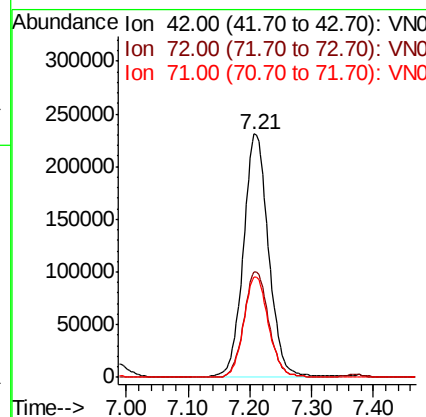
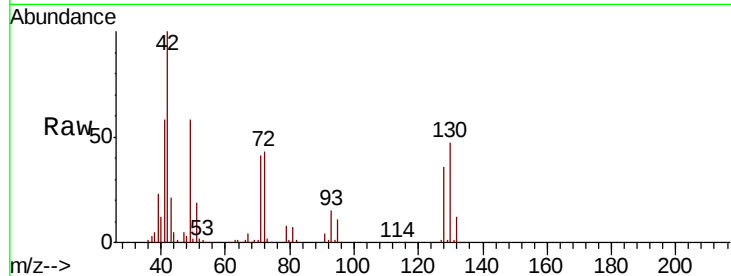
#29
Tetrahydrofuran
Concen: 239.312 ug/l
RT: 7.21 min Scan# 1690
Delta R.T. -0.00 min
Lab File: VN052852.D
Acq: 13 Dec 2018 9:41

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
42	100		
72	42.8	34.7	52.1
71	40.9	32.3	48.5

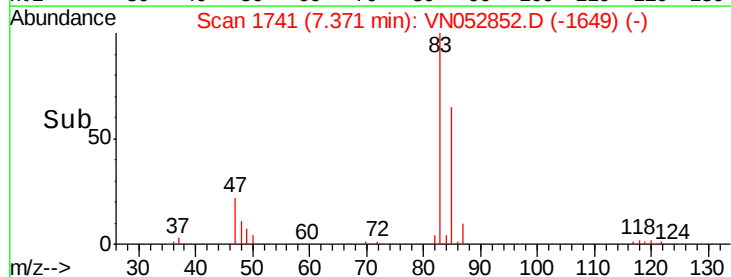
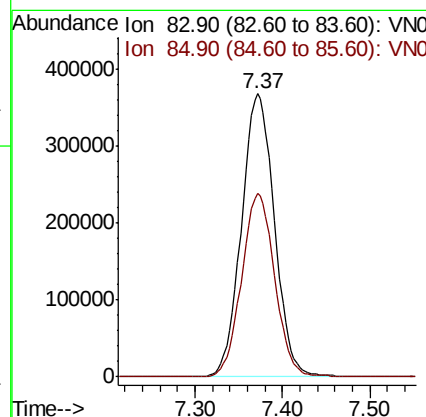
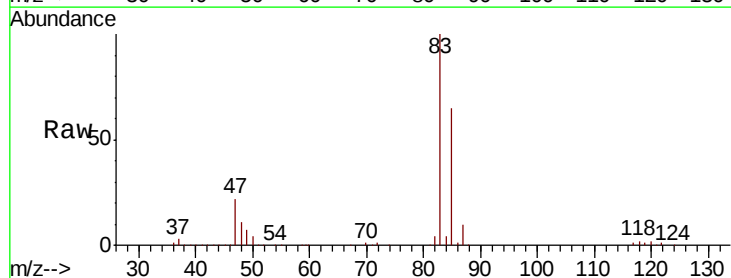
Manual Integrations
APPROVED

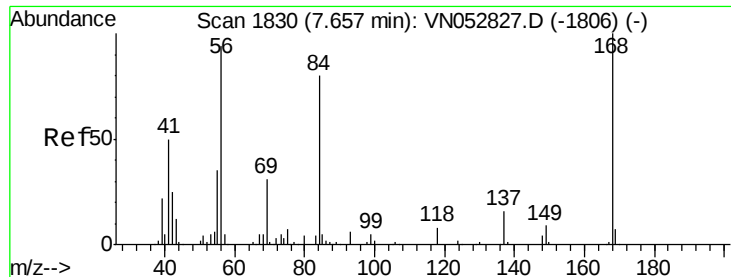
MMDadoda
12/14/2018 9:02:06 AM



#30
Chloroform
Concen: 49.585 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VN052852.D
Acq: 13 Dec 2018 9:41

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.6	52.1	78.1





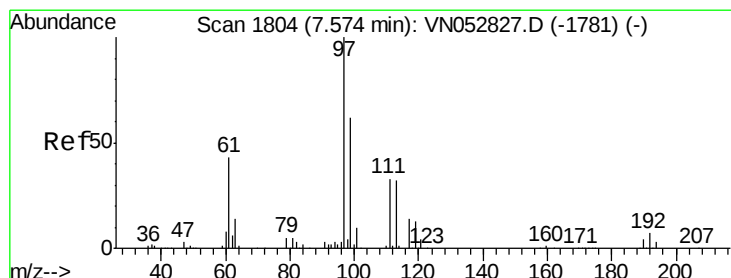
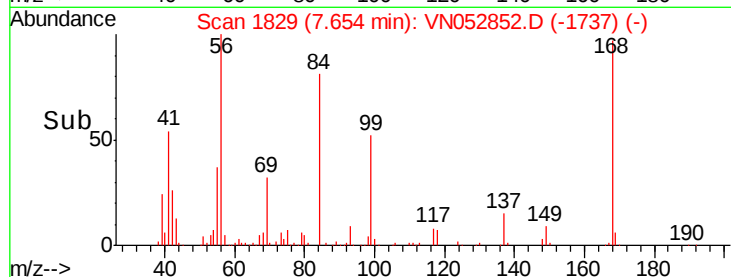
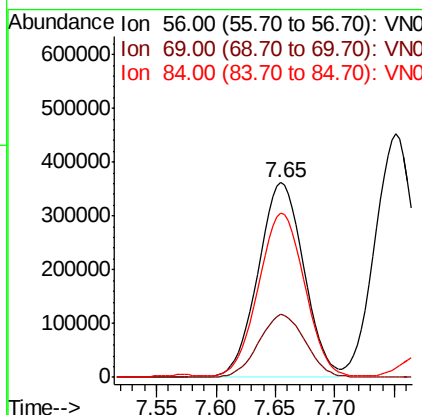
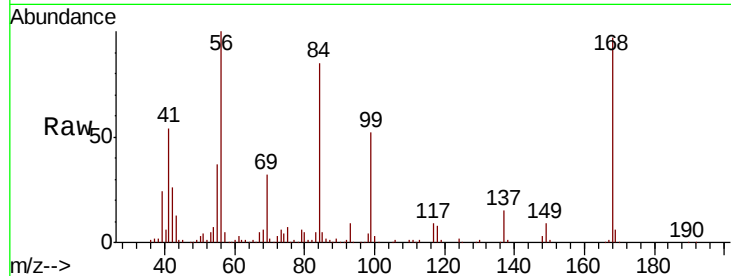
#31
Cyclohexane
Concen: 49.663 ug/l
RT: 7.65 min Scan# 1829
Delta R.T. -0.00 min
Lab File: VN052852.D
Acq: 13 Dec 2018 9:41

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
56	100		
69	32.1	26.6	39.8
84	83.3	68.4	102.6

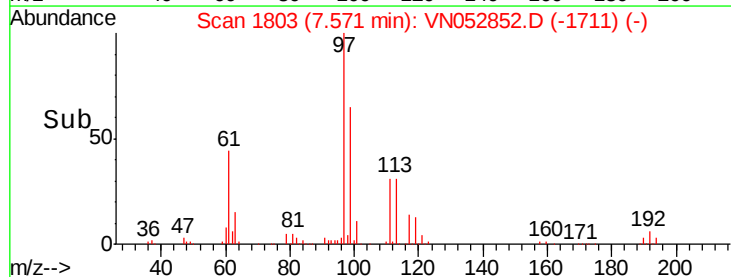
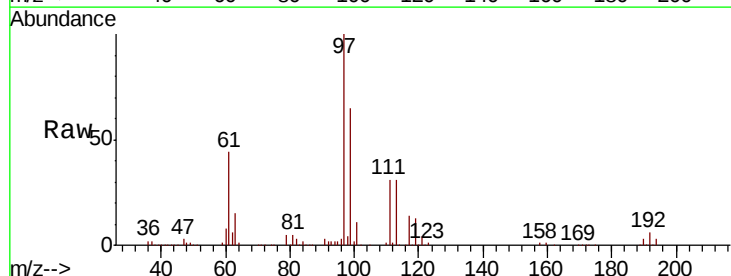
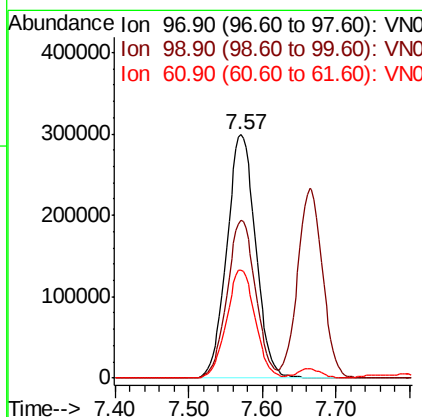
Manual Integrations
APPROVED

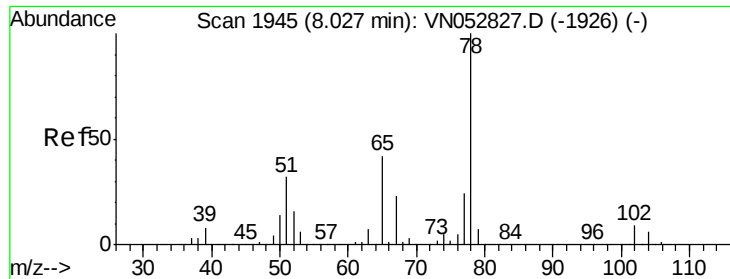
MMDadoda
12/14/2018 9:02:06 AM



#32
1,1,1-Trichloroethane
Concen: 50.053 ug/l
RT: 7.57 min Scan# 1803
Delta R.T. -0.00 min
Lab File: VN052852.D
Acq: 13 Dec 2018 9:41

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.0	51.1	76.7
61	44.1	35.0	52.6





#33

1,2-Dichloroethane-d4

Concen: 50.053 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN052852.D

Acq: 13 Dec 2018 9:41

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 65 Resp: 563458

Ion Ratio Lower Upper

65 100

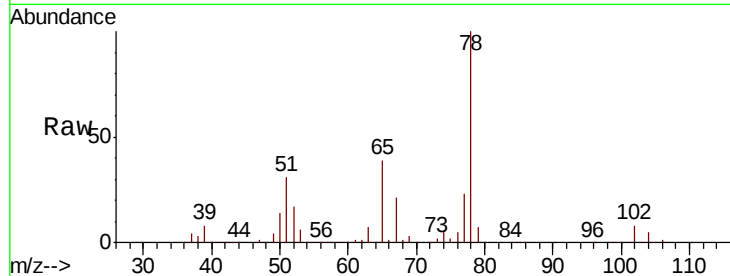
67 55.5 0.0 110.4

Manual Integrations

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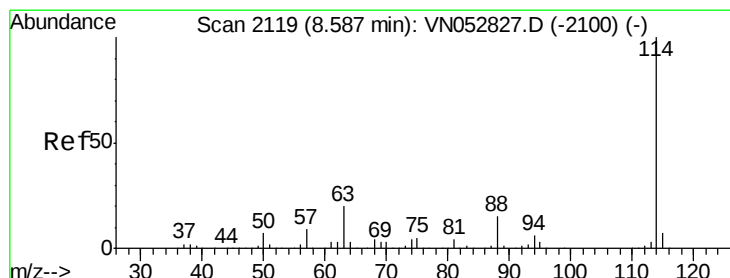
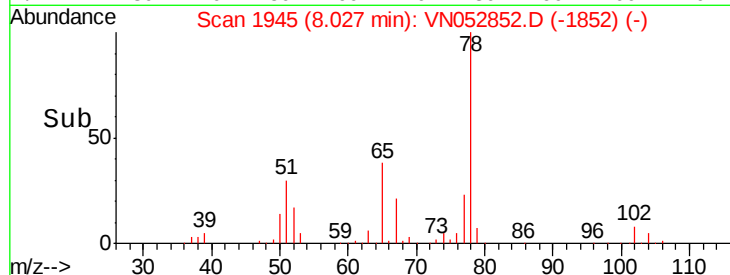
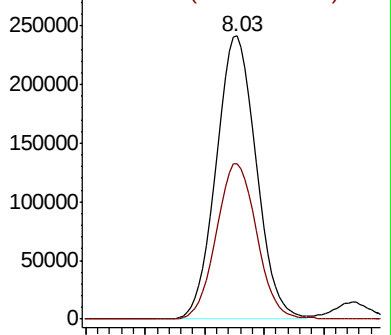
MMDadoda

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Abundance Ion 64.90 (64.60 to 65.60): VN052827.D (-1926) (-)

Ion 66.90 (66.60 to 67.60): VN052827.D (-1926) (-)



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN052852.D

Acq: 13 Dec 2018 9:41

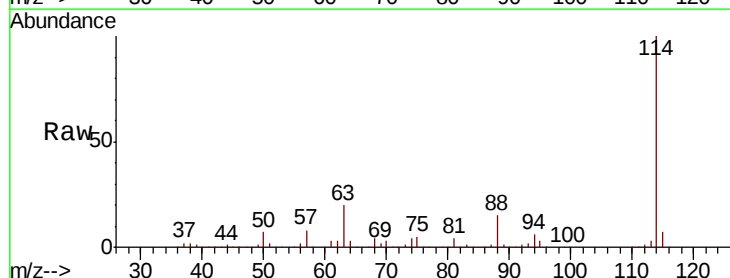
Tgt Ion: 114 Resp: 1611463

Ion Ratio Lower Upper

114 100

63 20.2 0.0 39.8

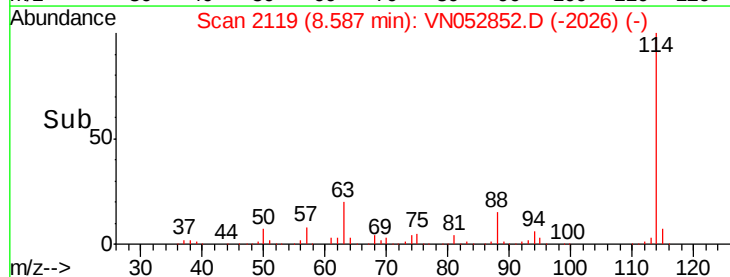
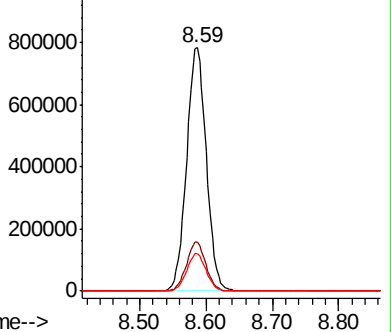
88 15.4 0.0 31.0

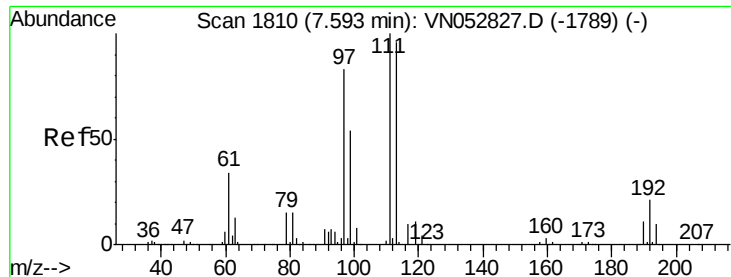


Abundance Ion 113.90 (113.60 to 114.60): VN052827.D (-2100) (-)

Ion 63.00 (62.70 to 63.70): VN052827.D (-2100) (-)

Ion 87.90 (87.60 to 88.60): VN052827.D (-2100) (-)





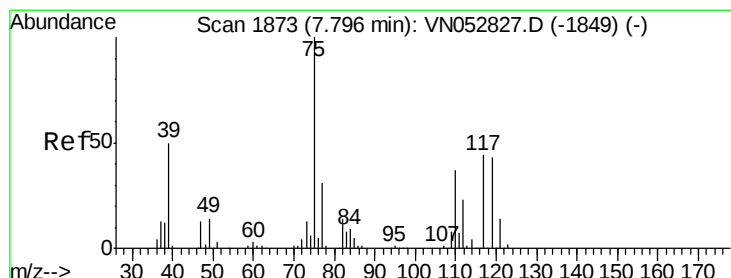
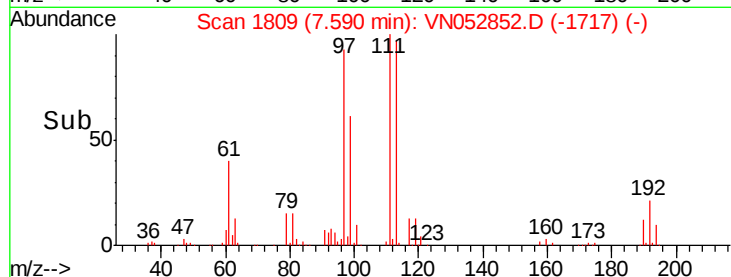
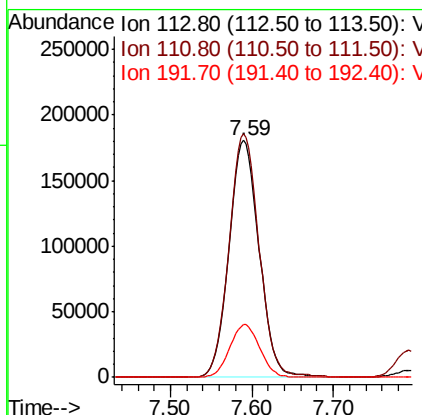
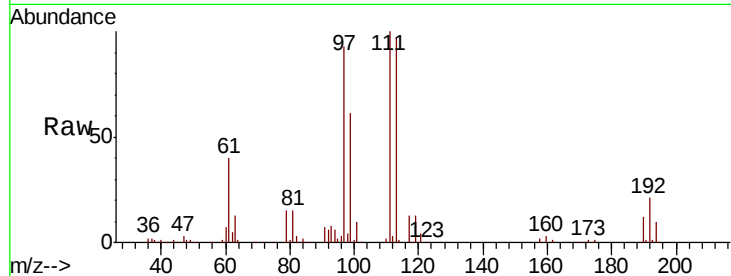
#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 7.59 min Scan# 1809
Delta R.T. -0.00 min
Lab File: VN052852.D
Acq: 13 Dec 2018 9:41

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
113	100	466047		
111	102.6	83.0	124.4	
192	22.2	17.5	26.3	

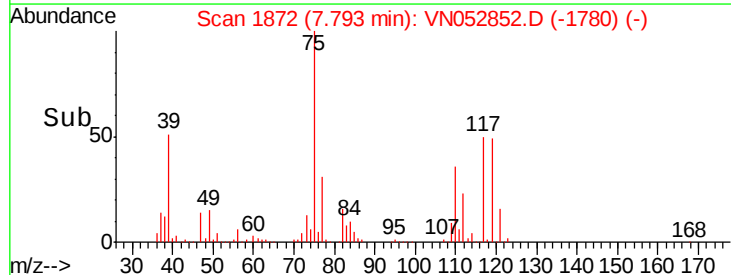
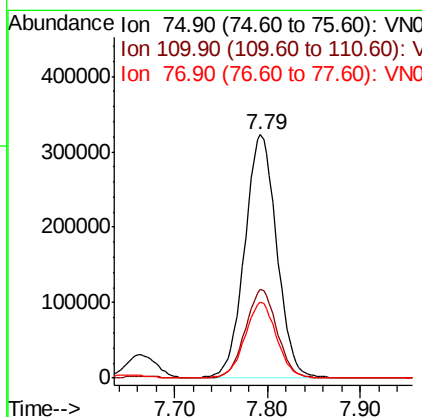
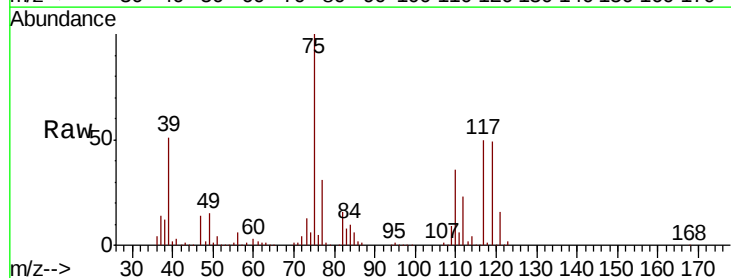
Manual Integrations
APPROVED

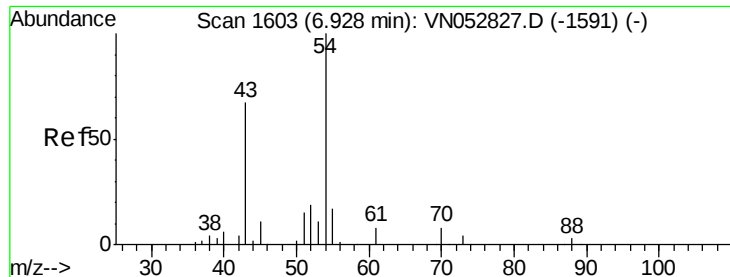
MMDadoda
12/14/2018 9:02:06 AM



#36
1,1-Dichloropropene
Concen: 52.046 ug/l
RT: 7.79 min Scan# 1872
Delta R.T. -0.00 min
Lab File: VN052852.D
Acq: 13 Dec 2018 9:41

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	772336		
110	36.1	18.2	54.6	
77	31.1	24.9	37.3	





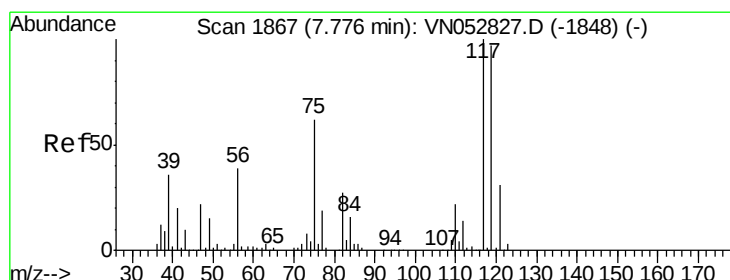
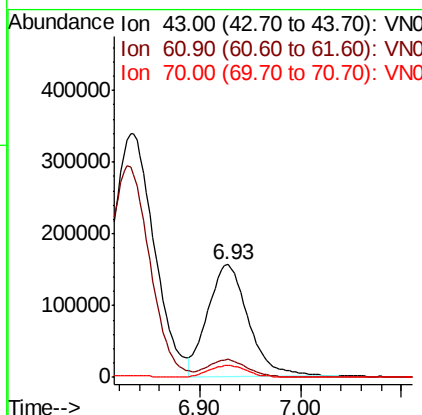
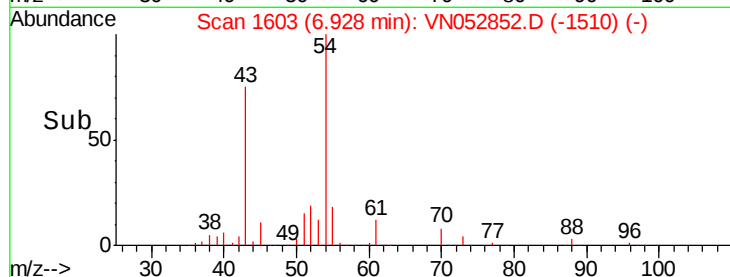
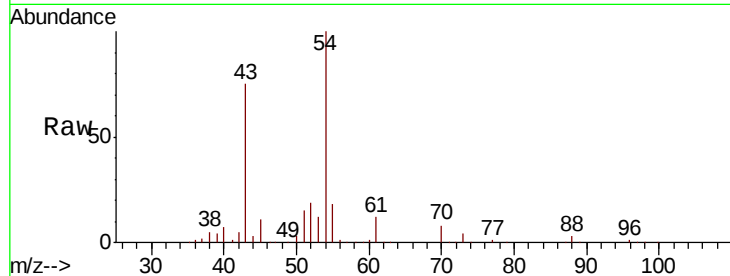
#37
Ethyl Acetate
Concen: 49.290 ug/l
RT: 6.93 min Scan# 1603
Delta R.T. 0.00 min
Lab File: VN052852.D
Acq: 13 Dec 2018 9:41

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	15.1	11.8	17.6
70	10.5	8.4	12.6

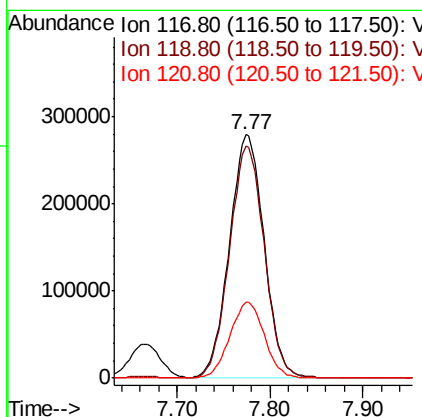
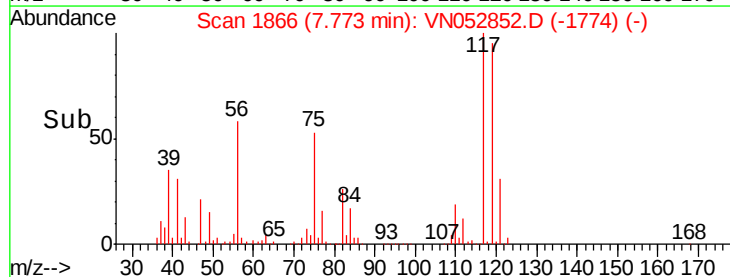
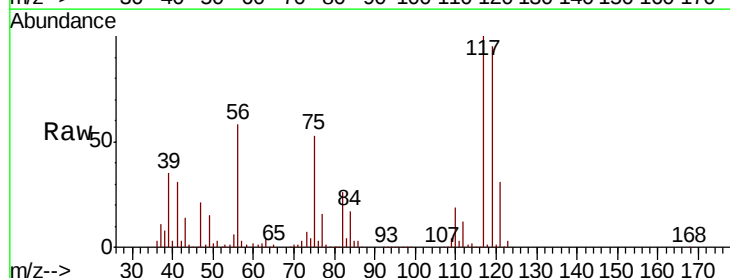
Manual Integrations
APPROVED

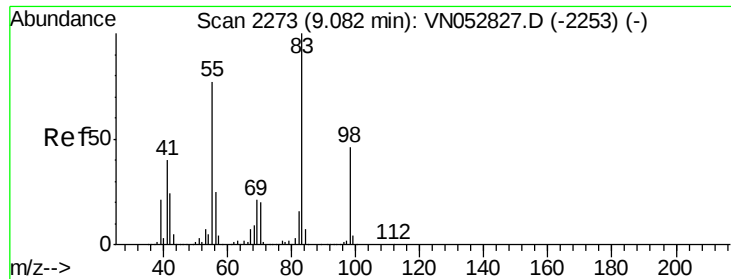
MMDadoda
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#38
Carbon Tetrachloride
Concen: 52.940 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. -0.00 min
Lab File: VN052852.D
Acq: 13 Dec 2018 9:41

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.3	77.1	115.7
121	31.2	24.9	37.3





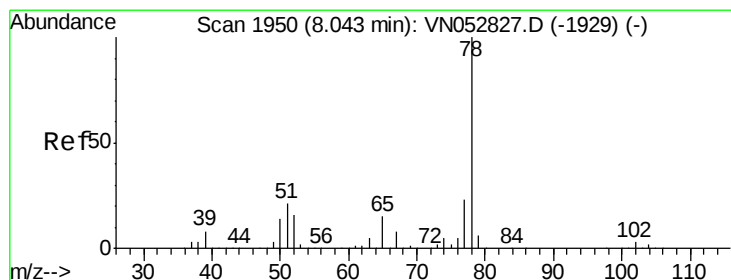
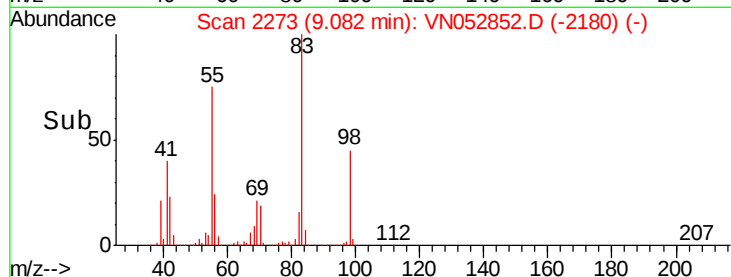
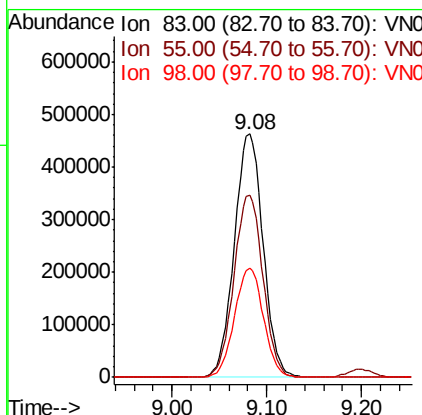
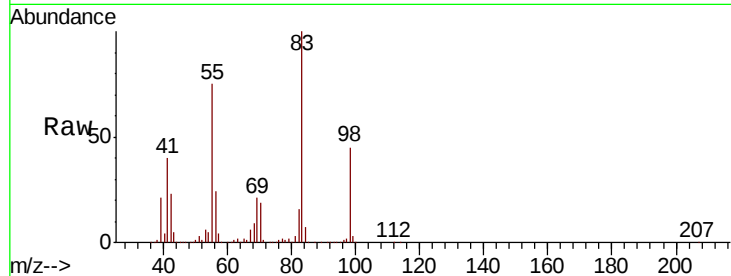
#39
Methvlcvclohexane
Concen: 53.840 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN052852.D
Acq: 13 Dec 2018 9:41

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
83	100			
55	75.0	61.3	91.9	
98	44.7	37.0	55.4	

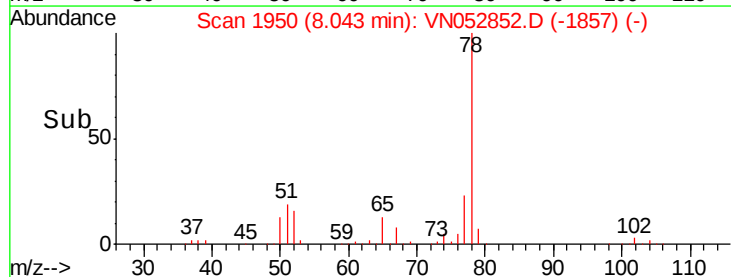
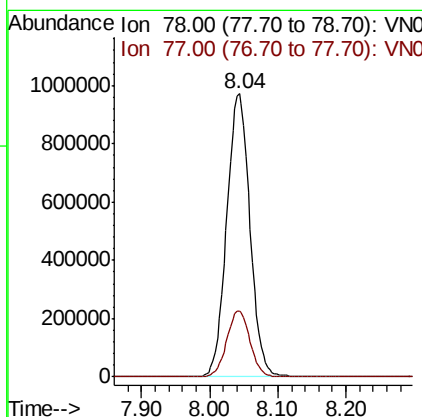
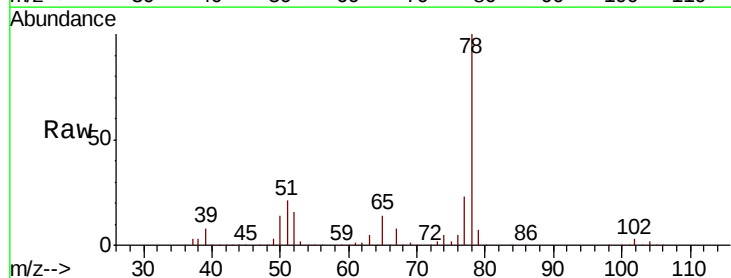
Manual Integrations
APPROVED

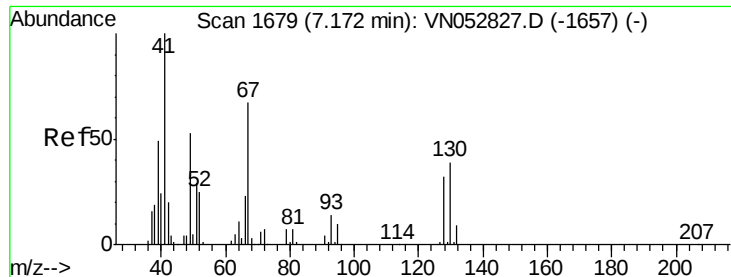
MMDadoda
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#40
Benzene
Concen: 51.524 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN052852.D
Acq: 13 Dec 2018 9:41

Tgt Ion	Ratio	Resp	Lower	Upper
78	100			
77	23.3	18.5	27.7	





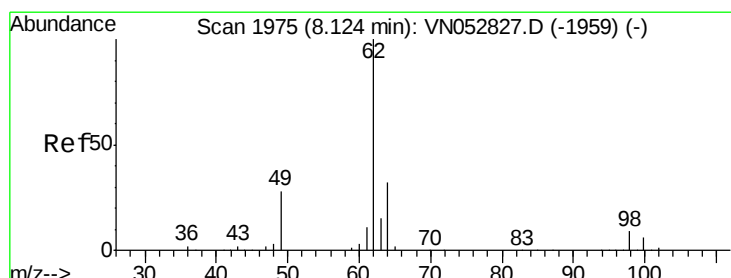
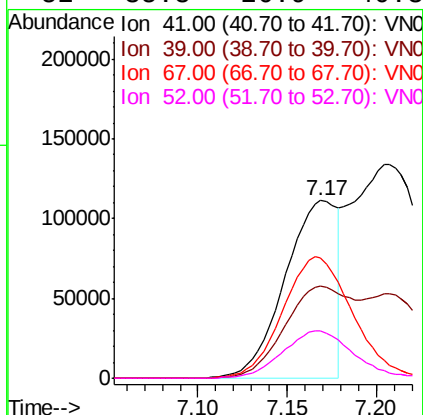
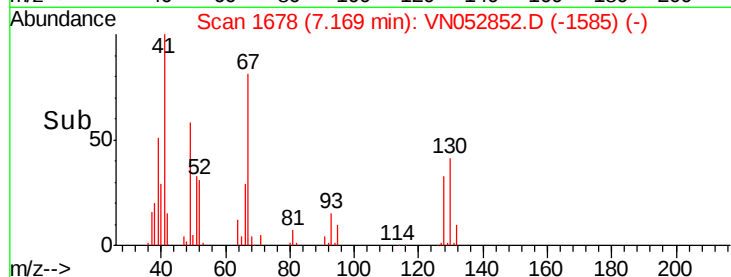
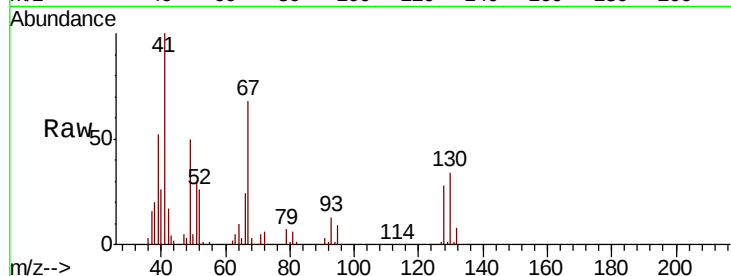
#41
Methacrylonitrile
Concen: 45.858 ug/l
RT: 7.17 min Scan# 1678
Delta R.T. -0.00 min
Lab File: VN052852.D
Acq: 13 Dec 2018 9:41

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
41	100		
39	69.1	48.0	72.0
67	91.7	70.3	105.5
52	35.8	26.9	40.3

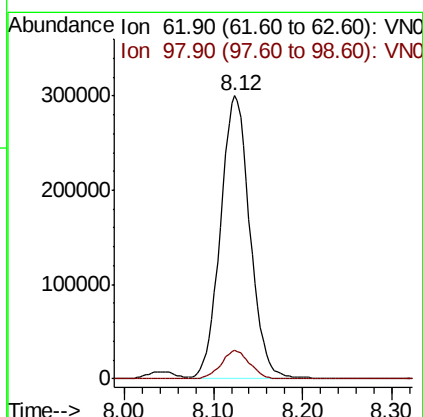
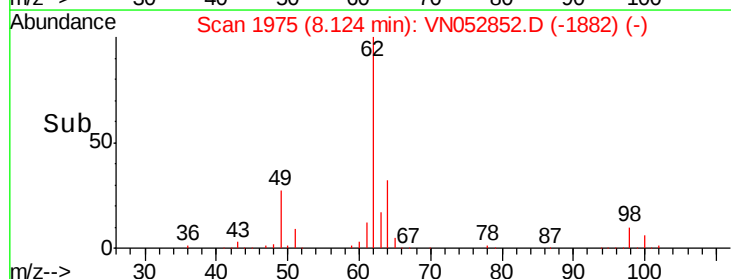
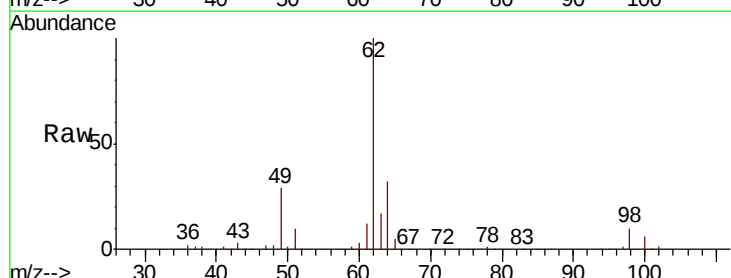
Manual Integrations
APPROVED

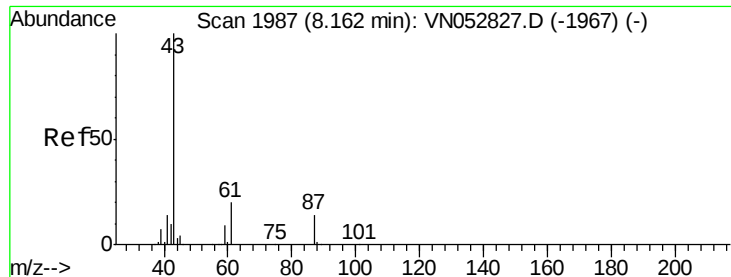
MMDadoda
12/14/2018 9:02:06 AM



#42
1,2-Dichloroethane
Concen: 50.987 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. 0.00 min
Lab File: VN052852.D
Acq: 13 Dec 2018 9:41

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.8	0.0	19.0





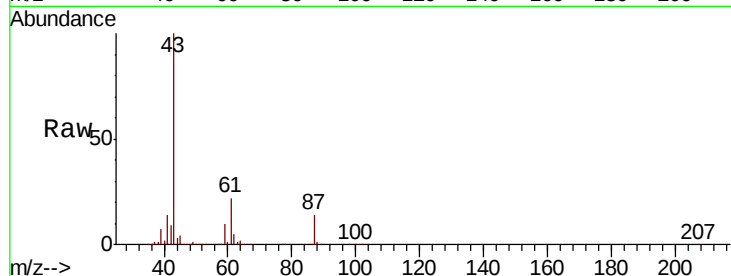
#43
Isopropyl Acetate
Concen: 43.481 ug/l
RT: 8.16 min Scan# 1987
Delta R.T. 0.00 min
Lab File: VN052852.D
Acq: 13 Dec 2018 9:41

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

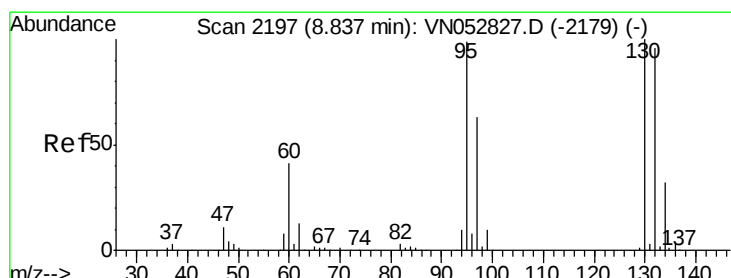
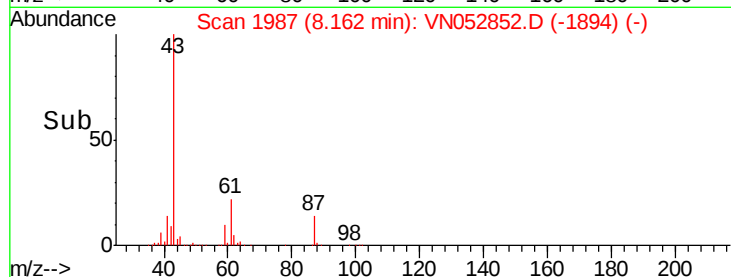
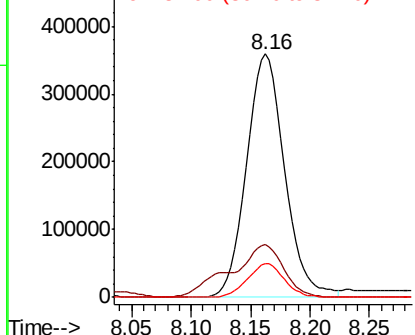
Tot Ion	Ratio	Lower	Upper
43	100		
61	21.5	22.9	34.3#
87	13.4	10.6	15.8

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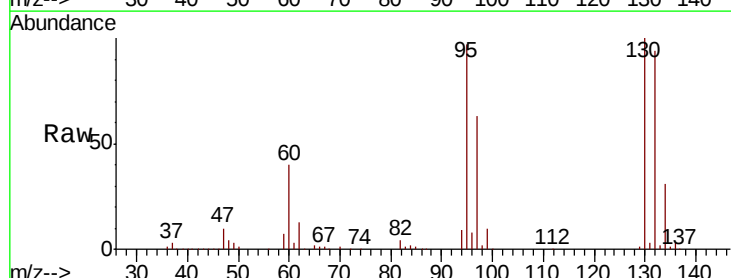


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 61.00 (60.70 to 61.70): VN0
Ion 87.00 (86.70 to 87.70): VN0

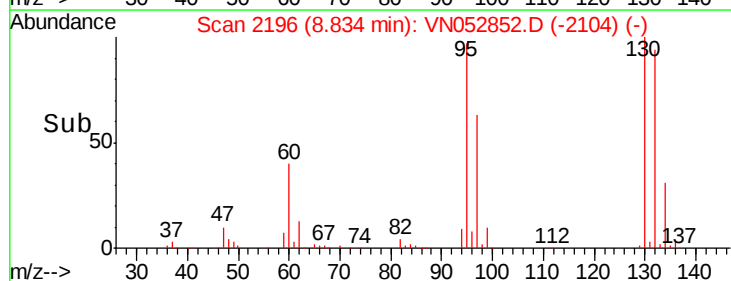
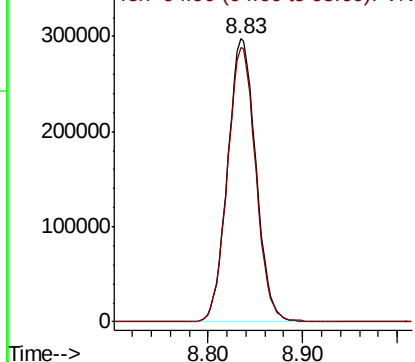


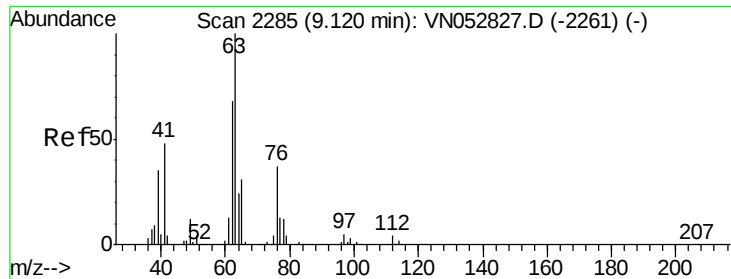
#44
Trichloroethene
Concen: 51.357 ug/l
RT: 8.83 min Scan# 2196
Delta R.T. -0.00 min
Lab File: VN052852.D
Acq: 13 Dec 2018 9:41

Tgt Ion	Ratio	Lower	Upper
130	100		
95	97.2	0.0	197.8



Abundance Ion 129.80 (129.50 to 130.50): V
Ion 94.90 (94.60 to 95.60): VN0





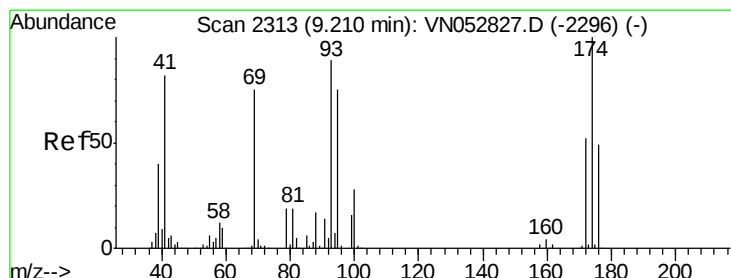
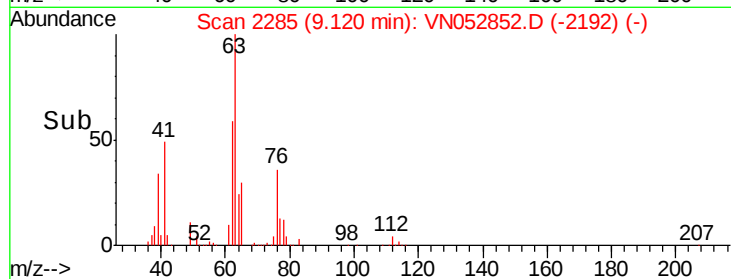
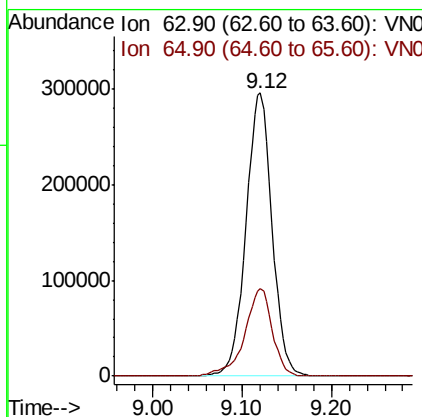
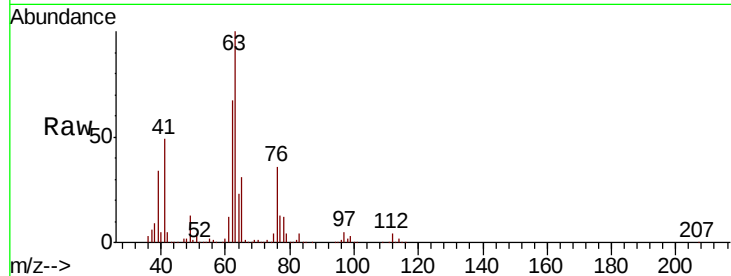
#45
 1,2-Dichloropropane
 Concen: 51.602 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN052852.D
 Acq: 13 Dec 2018 9:41

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
63	100		
65	31.1	24.6	37.0

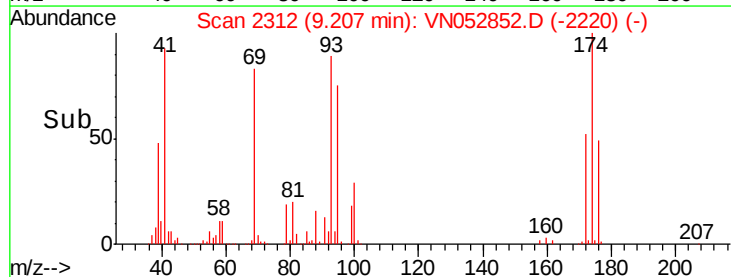
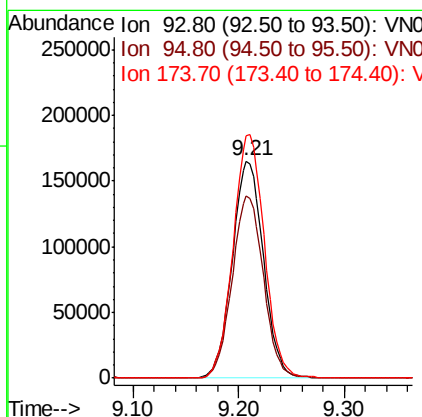
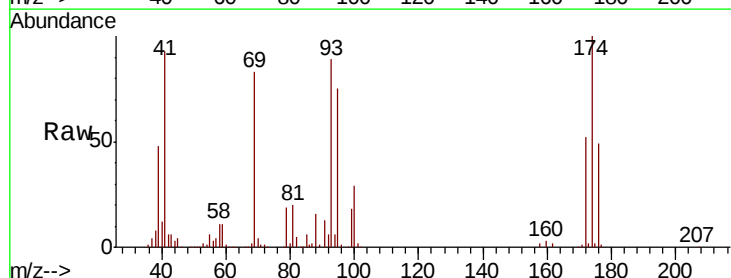
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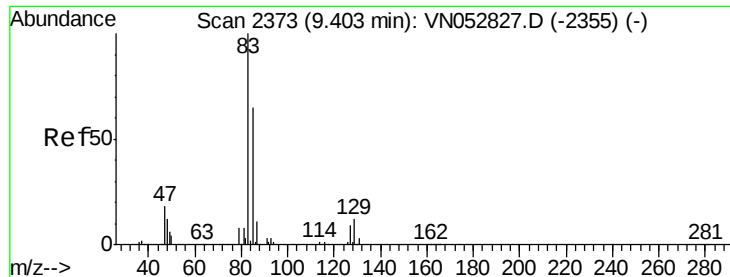
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#46
 Dibromomethane
 Concen: 50.196 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. -0.00 min
 Lab File: VN052852.D
 Acq: 13 Dec 2018 9:41

Tgt Ion	Ratio	Lower	Upper
93	100		
95	84.2	67.8	101.6
174	112.4	89.0	133.4





#47

Bromodichloromethane

Concen: 52.103 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN052852.D

Acq: 13 Dec 2018 9:41

Instrument :

MSVOA_N

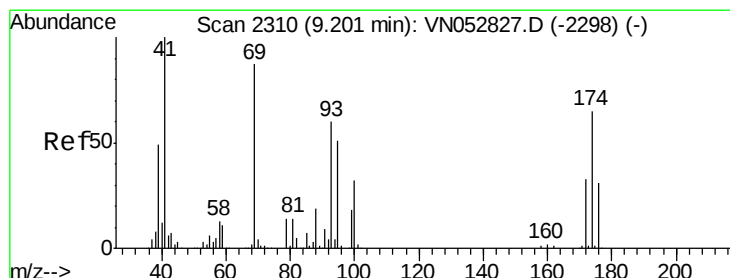
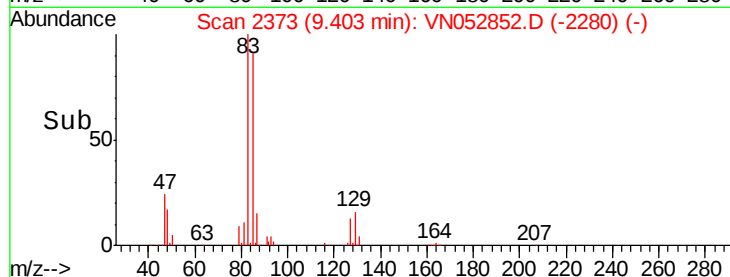
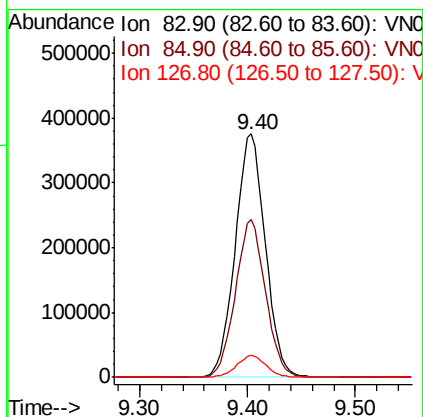
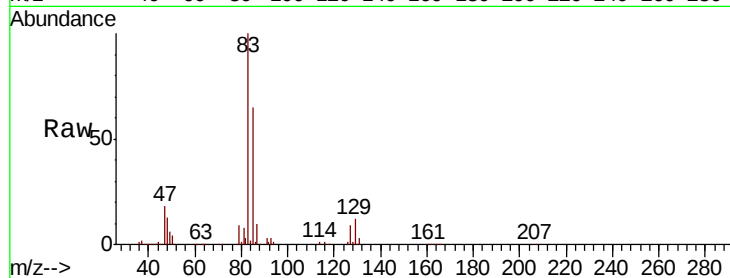
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	730984
Ion Ratio	Lower	Upper	
83	100		
85	64.6	51.6	77.4
127	8.9	7.1	10.7

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#48

Methyl methacrylate

Concen: 50.668 ug/l

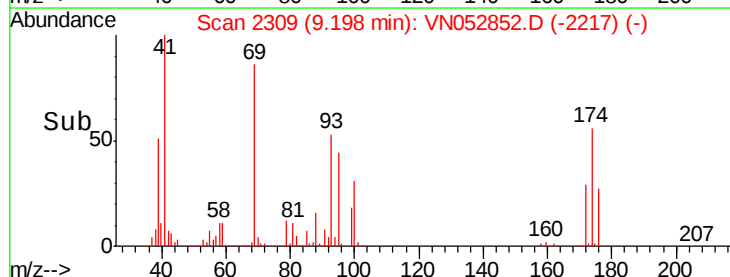
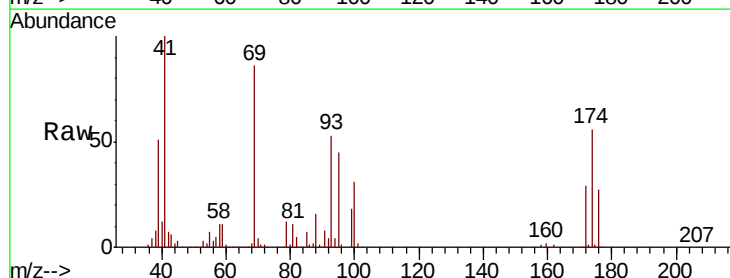
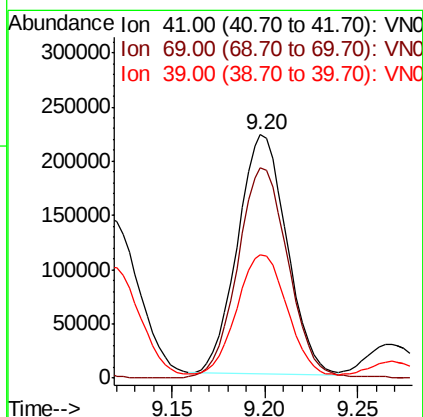
RT: 9.20 min Scan# 2309

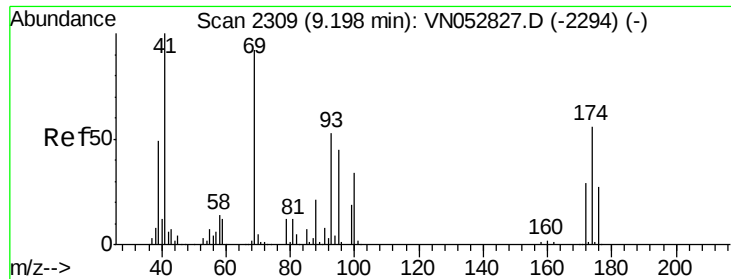
Delta R.T. -0.00 min

Lab File: VN052852.D

Acq: 13 Dec 2018 9:41

Tgt Ion:	41	Resp:	406126
Ion Ratio	Lower	Upper	
41	100		
69	90.6	72.2	108.2
39	53.8	41.9	62.9





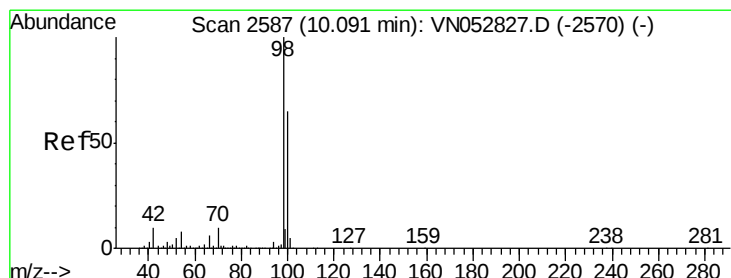
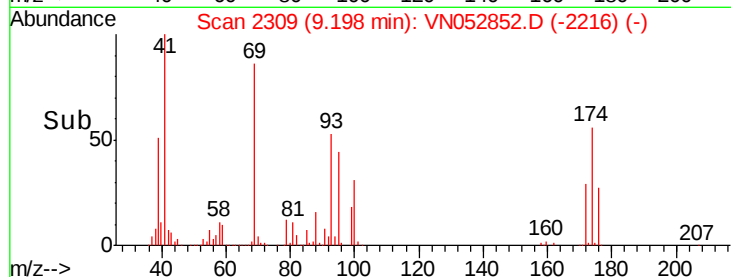
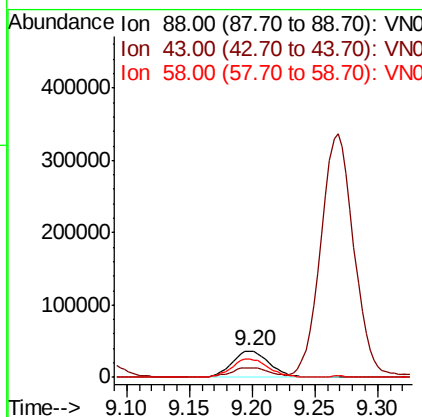
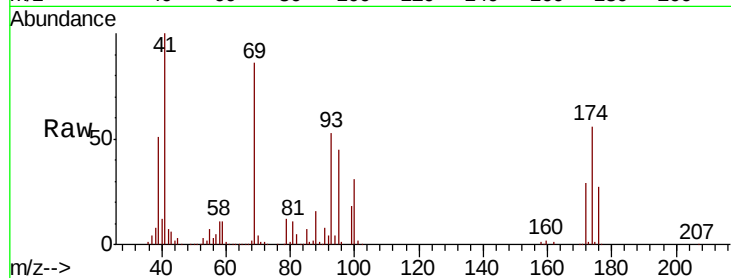
#49
1,4-Dioxane
Concen: 839.080 ug/l
RT: 9.20 min Scan# 2309
Delta R.T. 0.00 min
Lab File: VN052852.D
Acq: 13 Dec 2018 9:41

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
88	100		
43	34.4	26.6	40.0
58	68.3	58.4	87.6

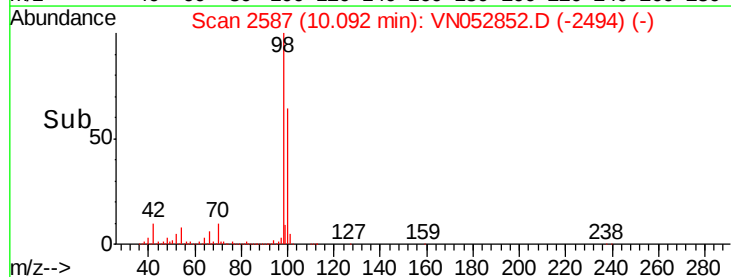
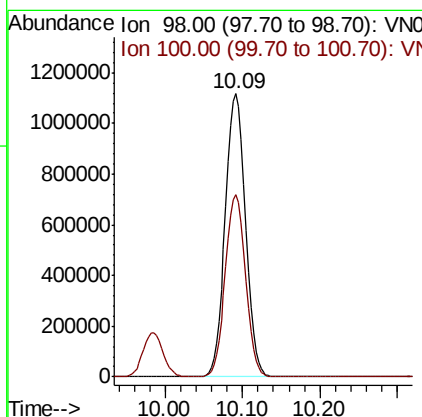
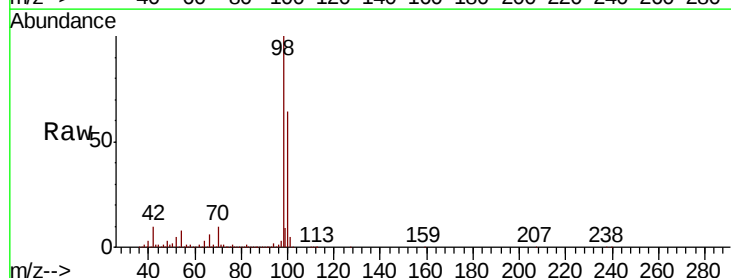
Manual Integrations
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#50
Toluene-d8
Concen: 839.080 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN052852.D
Acq: 13 Dec 2018 9:41

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.6	51.6	77.4





#51

4-Methyl-2-Pentanone

Concen: 252.794 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. 0.00 min

Lab File: VN052852.D

Acq: 13 Dec 2018 9:41

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 2118649

Ion Ratio Lower Upper

43 100

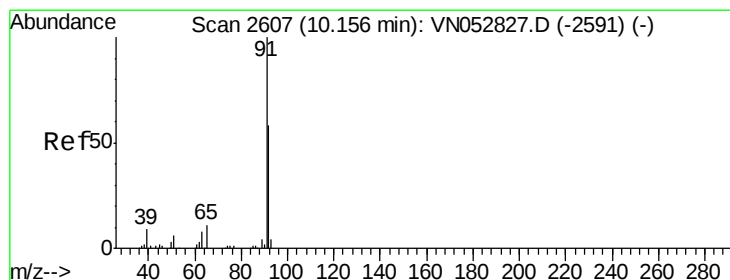
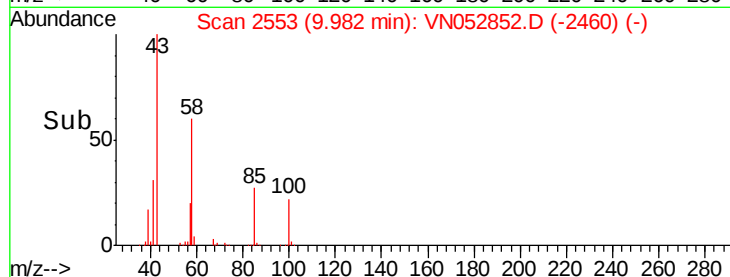
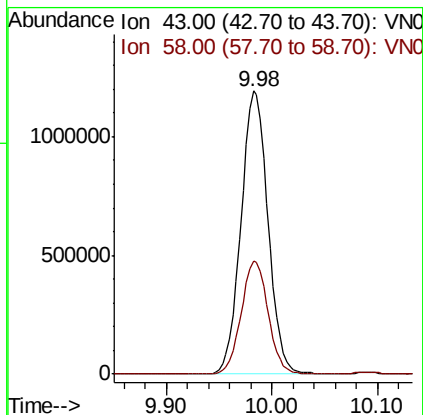
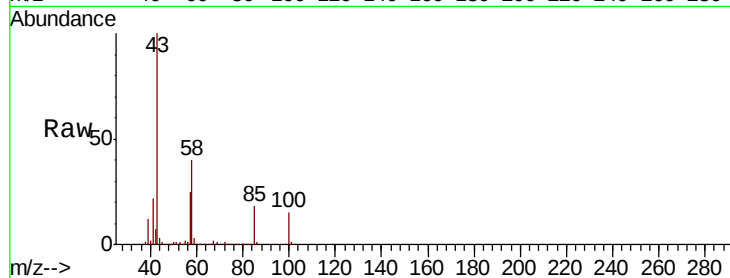
58 40.0 32.2 48.4

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#52

Toluene

Concen: 52.149 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN052852.D

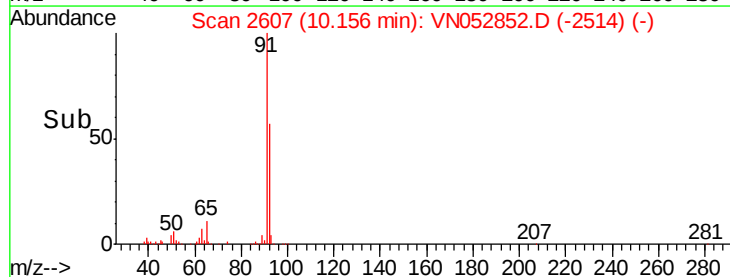
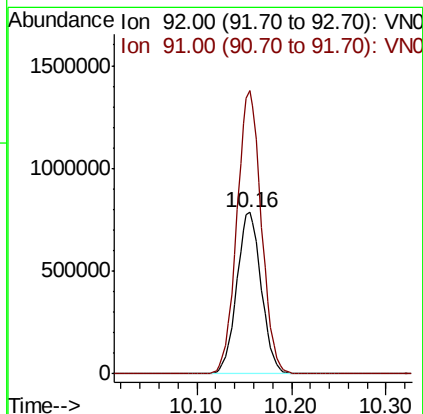
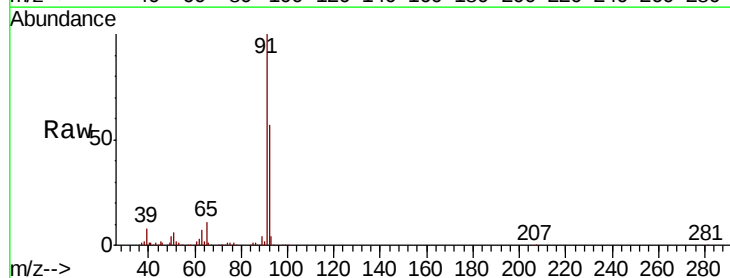
Acq: 13 Dec 2018 9:41

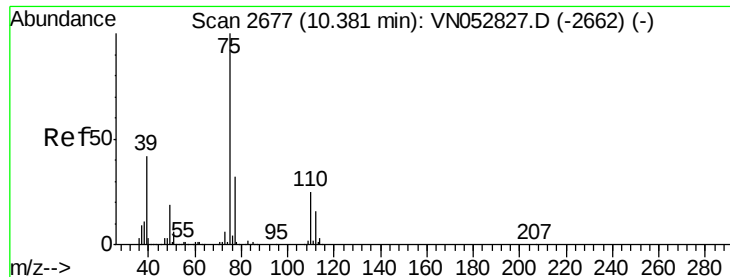
Tgt Ion: 92 Resp: 1406723

Ion Ratio Lower Upper

92 100

91 175.2 139.8 209.6





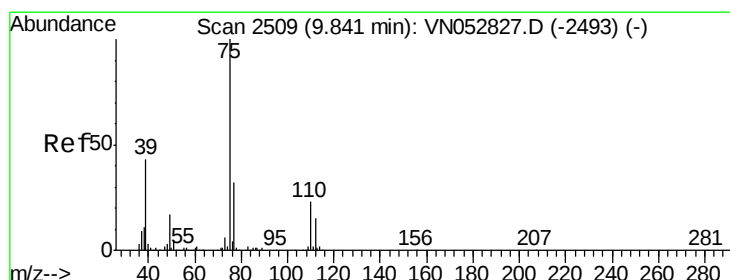
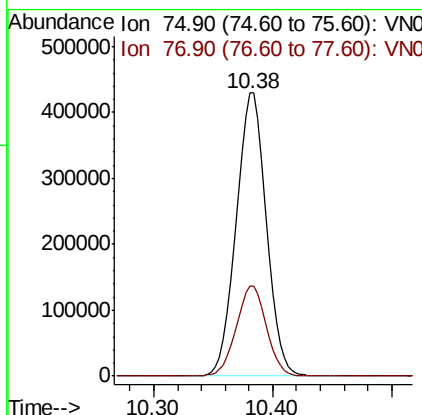
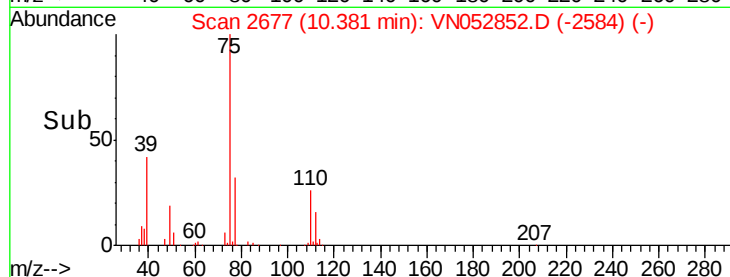
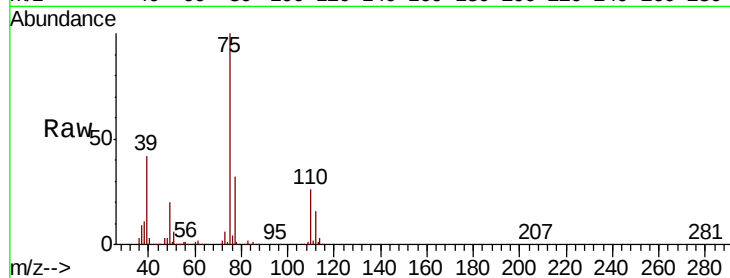
#53
t-1,3-Dichloropropene
Concen: 53.410 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. 0.00 min
Lab File: VN052852.D
Acq: 13 Dec 2018 9:41

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.8	25.6	38.4

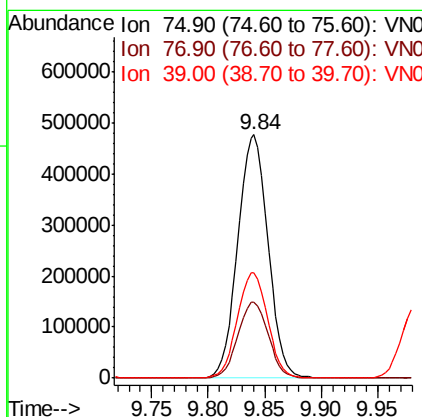
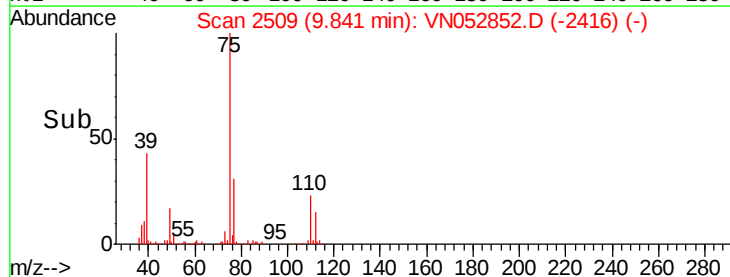
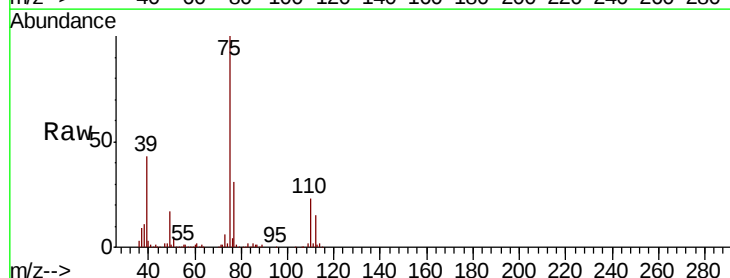
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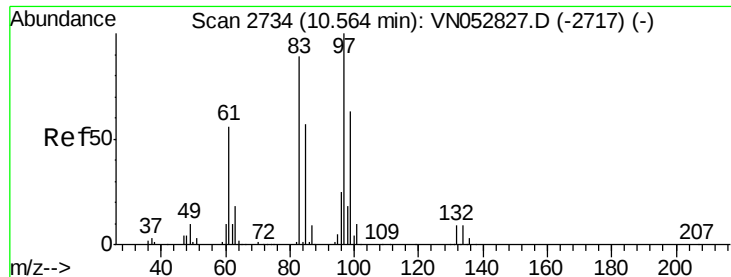
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#54
cis-1,3-Dichloropropene
Concen: 53.027 ug/l
RT: 9.84 min Scan# 2509
Delta R.T. 0.00 min
Lab File: VN052852.D
Acq: 13 Dec 2018 9:41

Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.3	25.8	38.8
39	43.5	34.8	52.2





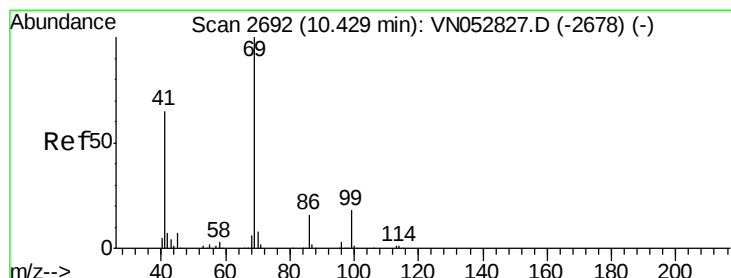
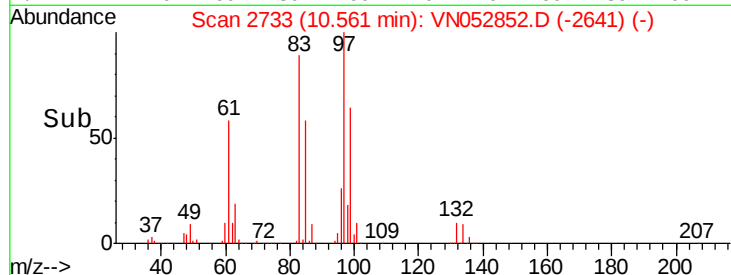
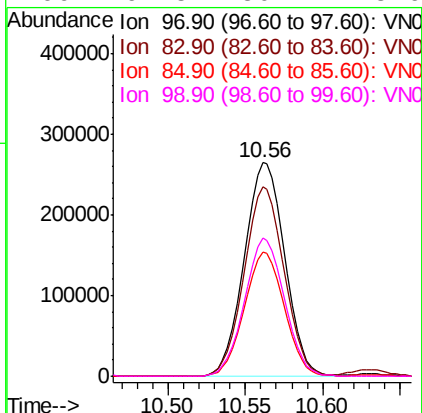
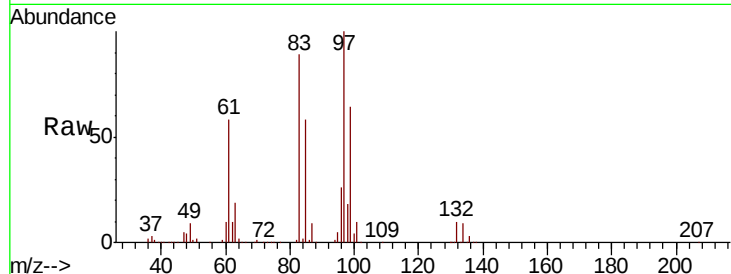
#55
 1,1,2-Trichloroethane
 Concen: 50.196 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. -0.00 min
 Lab File: VN052852.D
 Acq: 13 Dec 2018 9:41

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion:	97	Resp:	483355
Ion	Ratio	Lower	Upper
97	100		
83	88.9	70.9	106.3
85	58.0	45.4	68.2
99	64.5	50.4	75.6

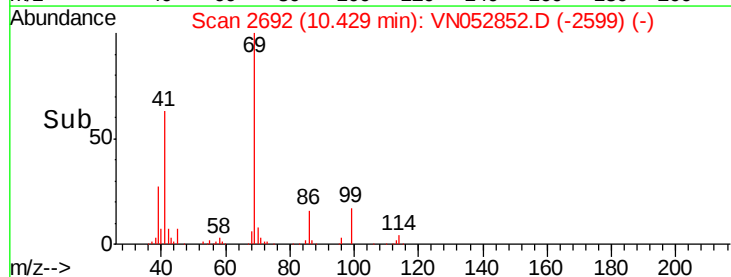
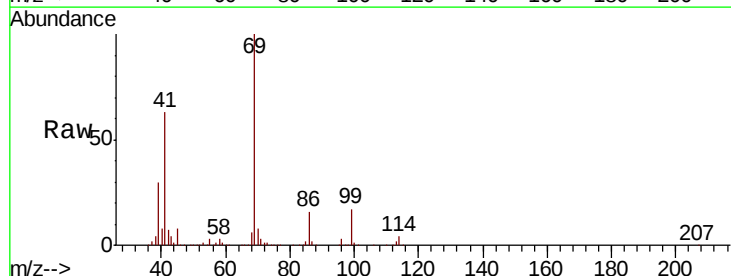
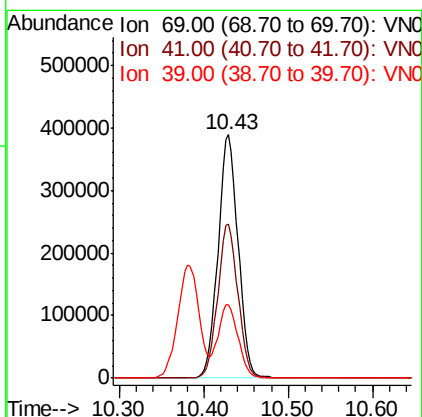
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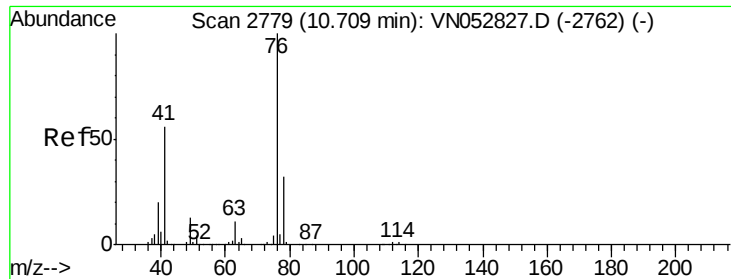
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#56
 Ethyl methacrylate
 Concen: 52.102 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN052852.D
 Acq: 13 Dec 2018 9:41

Tgt Ion:	69	Resp:	643860
Ion	Ratio	Lower	Upper
69	100		
41	63.2	51.7	77.5
39	30.3	24.6	37.0





#57

1,3-Dichloropropane

Concen: 51.111 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN052852.D

Acq: 13 Dec 2018 9:41

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 76 Resp: 843985

Ion Ratio Lower Upper

76 100

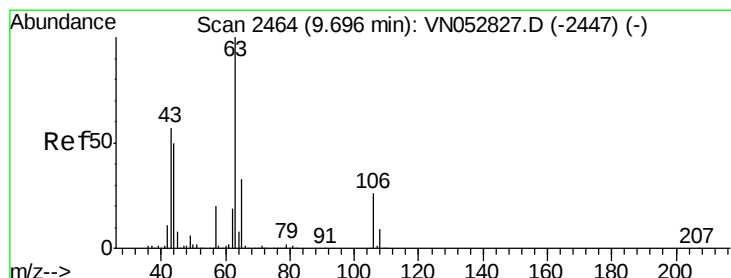
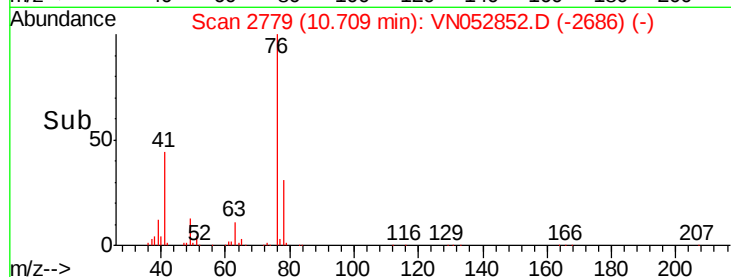
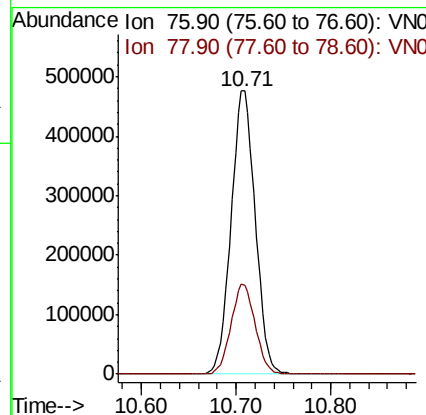
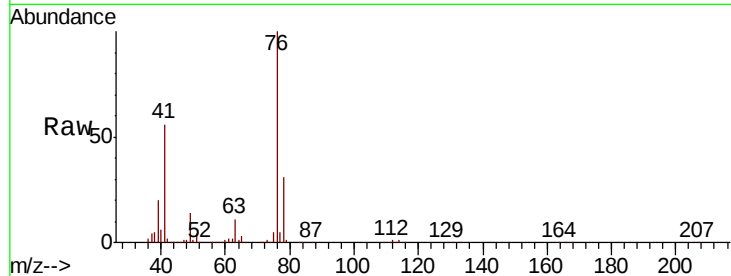
78 31.7 25.8 38.8

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#58

2-Chloroethyl Vinyl ether

Concen: 272.316 ug/l

RT: 9.69 min Scan# 2463

Delta R.T. -0.00 min

Lab File: VN052852.D

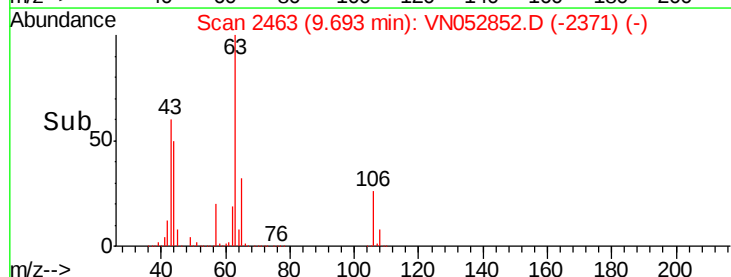
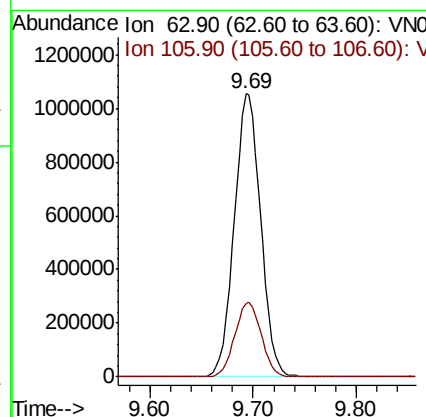
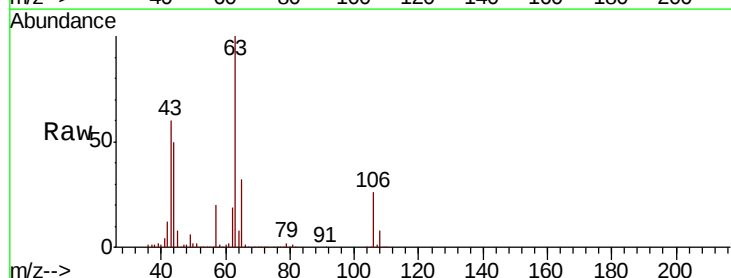
Acq: 13 Dec 2018 9:41

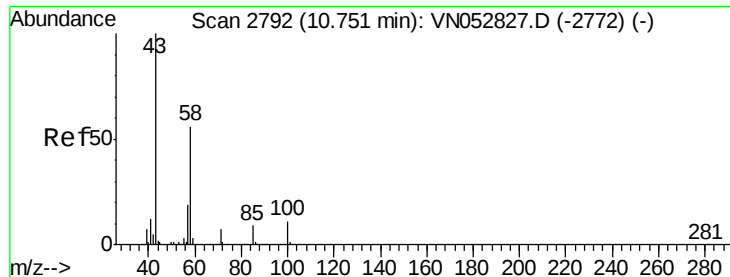
Tgt Ion: 63 Resp: 1877730

Ion Ratio Lower Upper

63 100

106 26.5 21.0 31.6





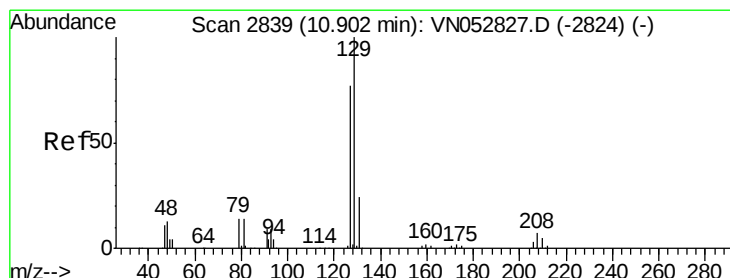
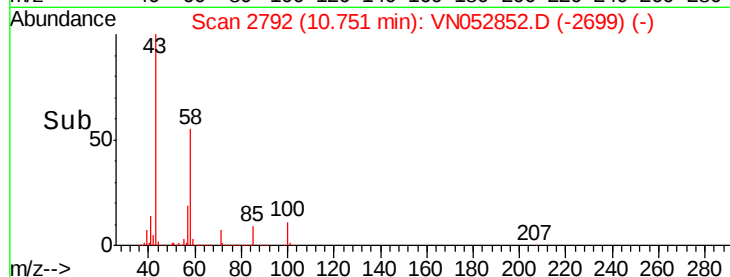
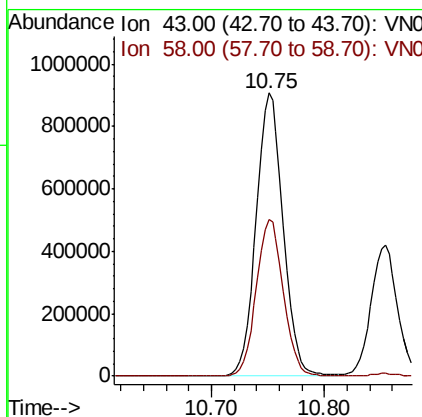
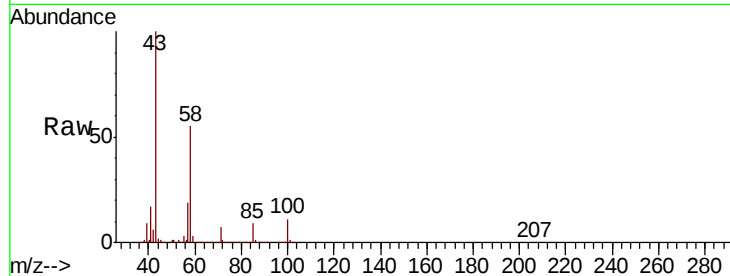
#59
2-Hexanone
Concen: 261.129 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN052852.D
Acq: 13 Dec 2018 9:41

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 1499827
Ion Ratio Lower Upper
43 100
58 55.8 28.1 84.3

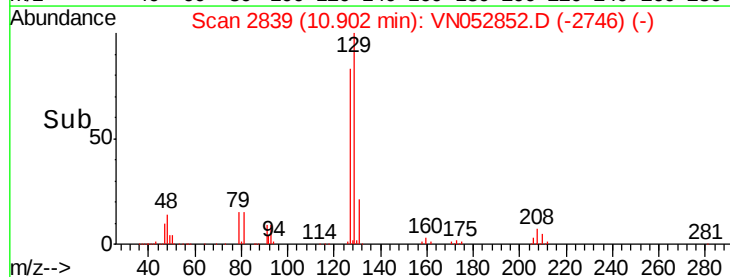
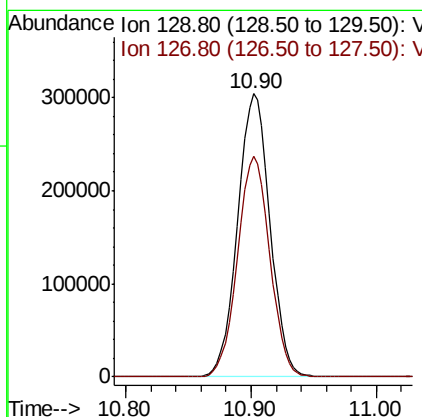
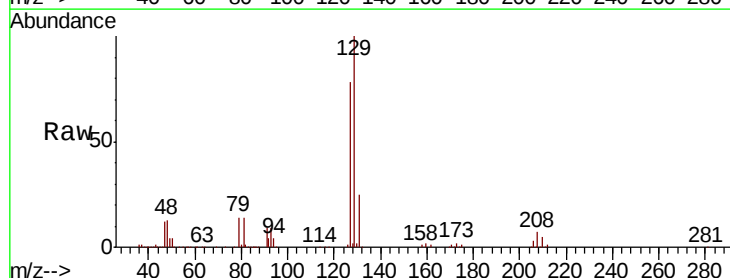
Manual Integrations
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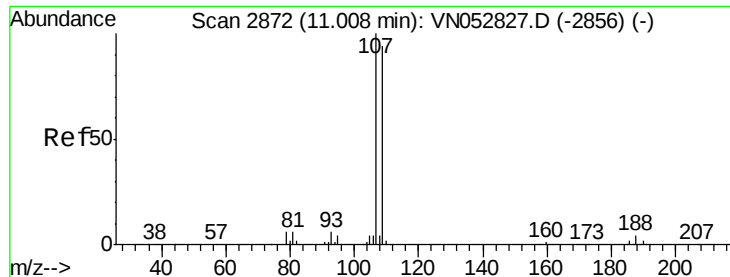
MMDadoda
12/14/2018 9:02:06 AM



#60
Dibromochloromethane
Concen: 52.395 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN052852.D
Acq: 13 Dec 2018 9:41

Tgt Ion: 129 Resp: 545282
Ion Ratio Lower Upper
129 100
127 77.8 38.6 116.0





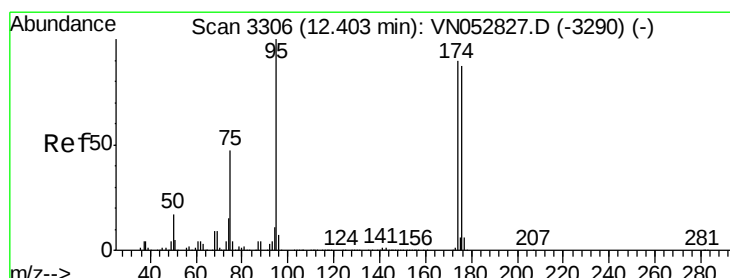
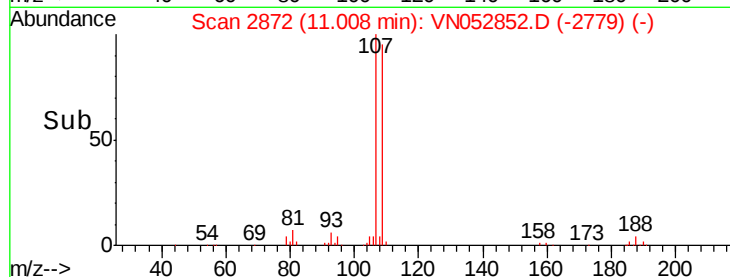
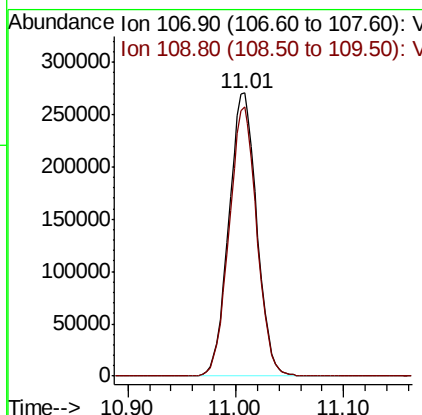
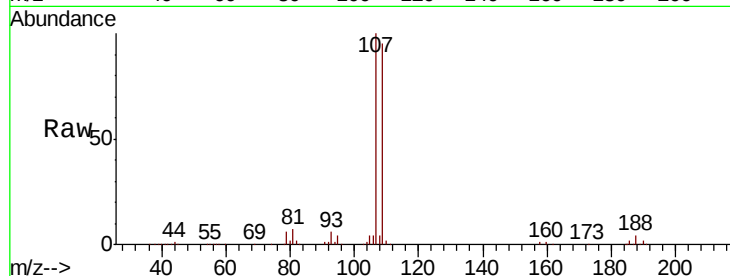
#61
 1,2-Dibromoethane
 Concen: 51.291 ug/l
 RT: 11.01 min Scan# 2872
 Delta R.T. 0.00 min
 Lab File: VN052852.D
 Acq: 13 Dec 2018 9:41

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion: 107 Resp: 488207
 Ion Ratio Lower Upper
 107 100
 109 94.3 75.4 113.0

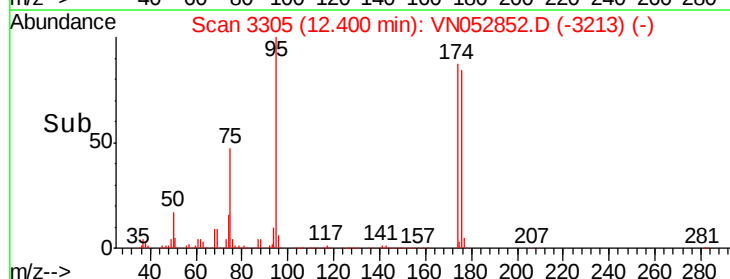
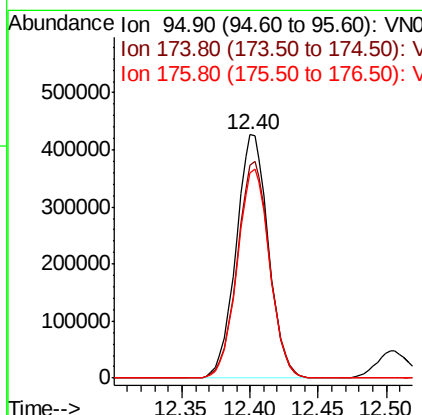
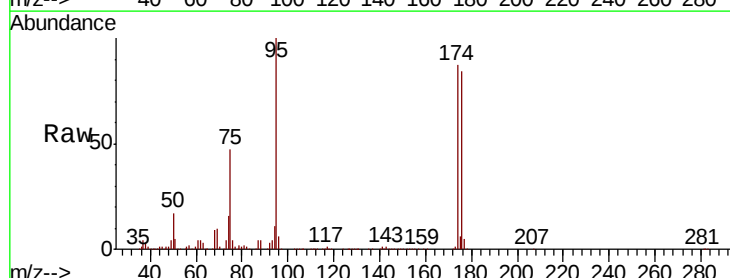
Manual Integrations
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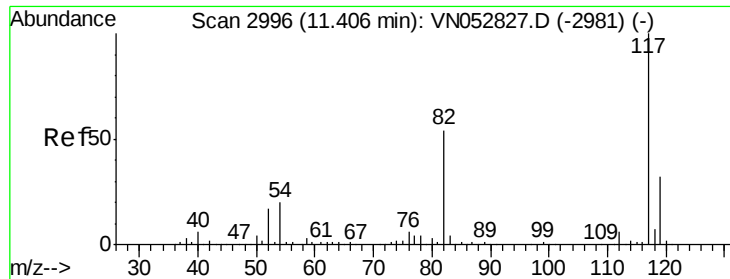
MMDadoda
 12/14/2018 9:02:06 AM



#62
 4-Bromofluorobenzene
 Concen: 51.291 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.00 min
 Lab File: VN052852.D
 Acq: 13 Dec 2018 9:41

Tgt Ion: 95 Resp: 700712
 Ion Ratio Lower Upper
 95 100
 174 88.6 0.0 178.8
 176 86.2 0.0 173.8





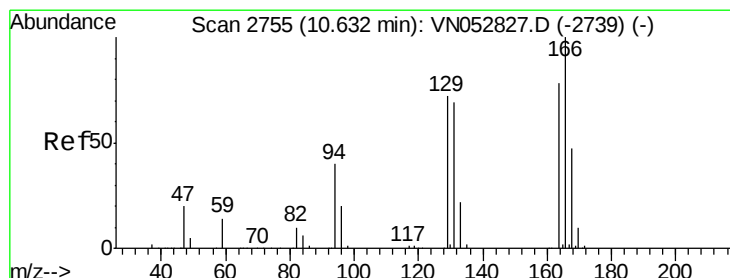
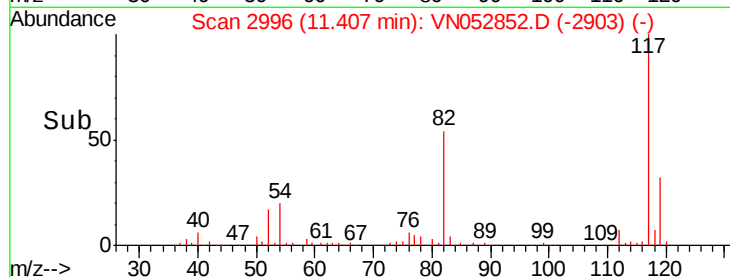
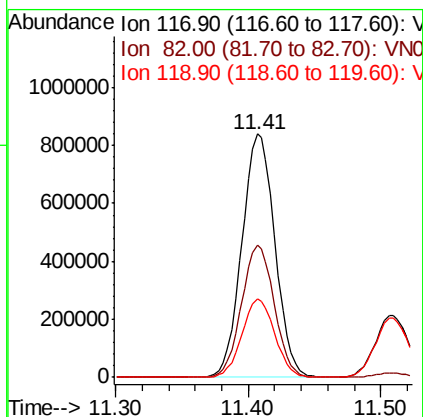
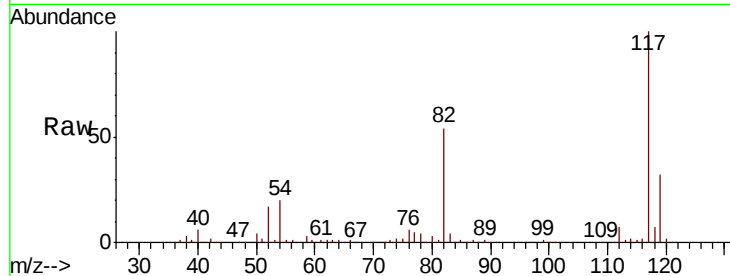
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN052852.D
Acq: 13 Dec 2018 9:41

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion:117 Resp: 1446286
Ion Ratio Lower Upper
117 100
82 54.2 42.8 64.2
119 32.1 25.5 38.3

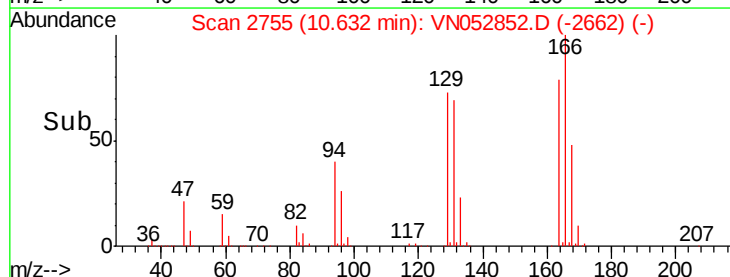
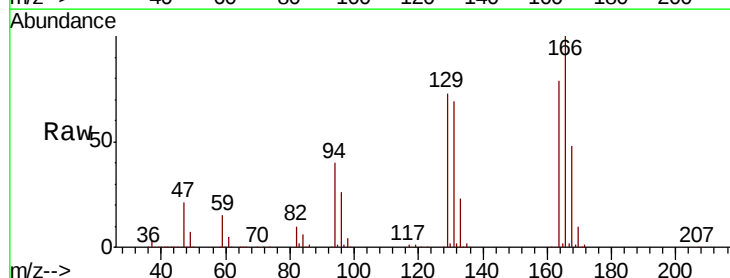
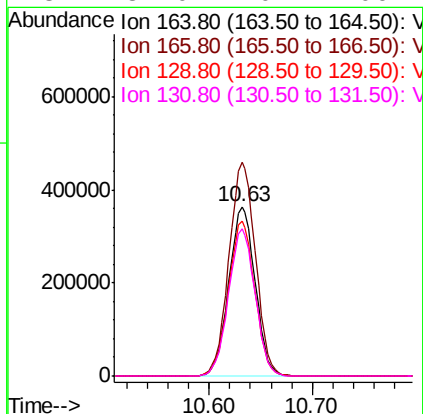
Manual Integrations
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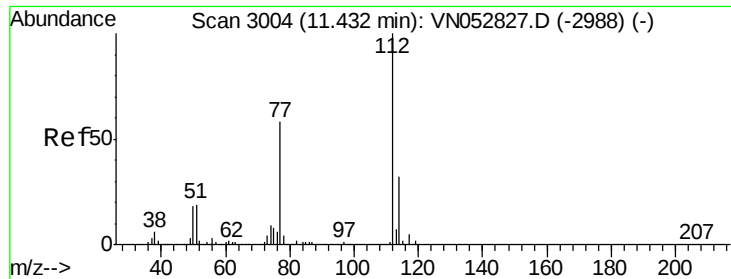
MMDadoda
12/14/2018 9:02:06 AM



#64
Tetrachloroethene
Concen: 51.994 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN052852.D
Acq: 13 Dec 2018 9:41

Tgt Ion:164 Resp: 646313
Ion Ratio Lower Upper
164 100
166 126.0 102.9 154.3
129 91.8 73.7 110.5
131 87.0 70.7 106.1





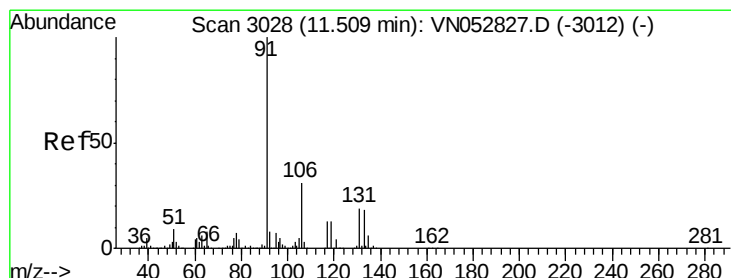
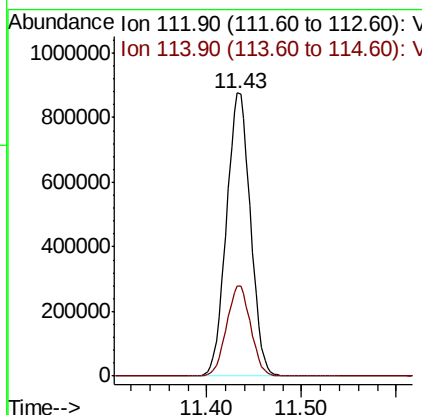
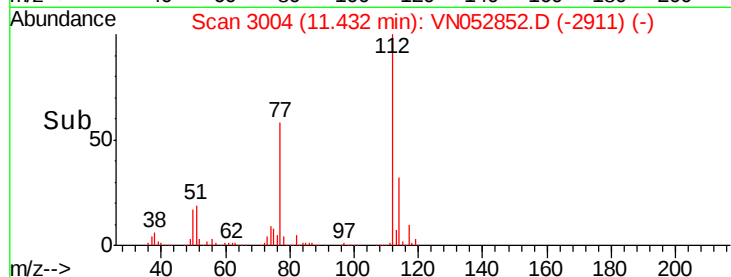
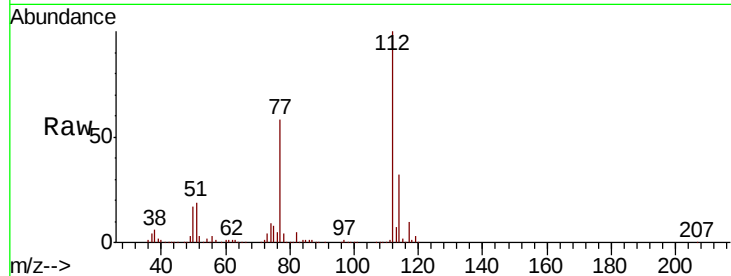
#65
Chlorobenzene
Concen: 51.304 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN052852.D
Acq: 13 Dec 2018 9:41

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion:112 Resp: 1539400
Ion Ratio Lower Upper
112 100
114 31.9 25.5 38.3

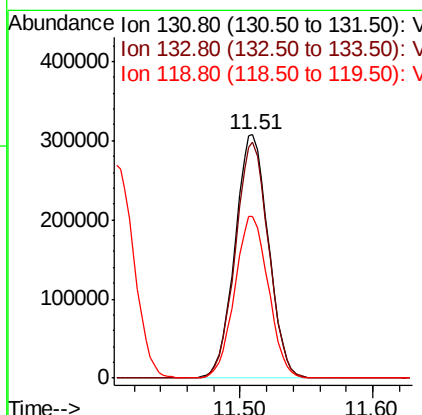
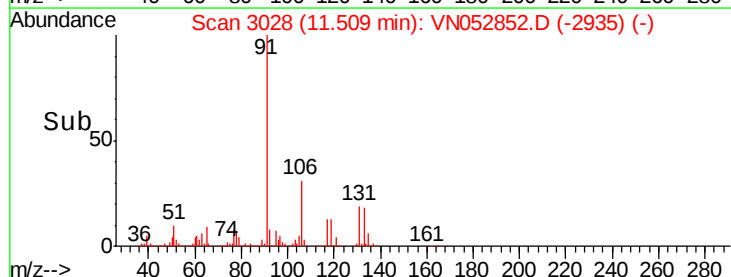
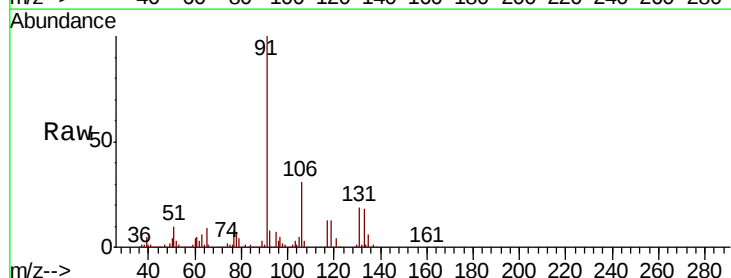
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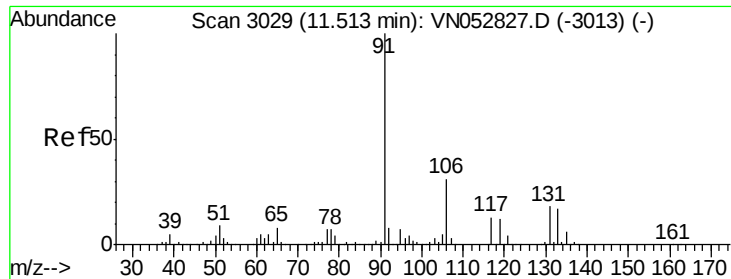
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#66
1,1,1,2-Tetrachloroethane
Concen: 51.665 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN052852.D
Acq: 13 Dec 2018 9:41

Tgt Ion:131 Resp: 539143
Ion Ratio Lower Upper
131 100
133 96.0 47.6 142.9
119 66.7 33.3 99.8





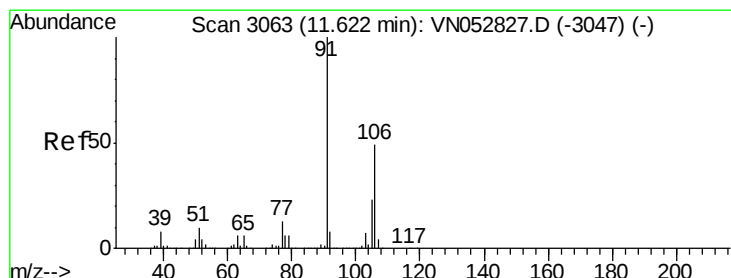
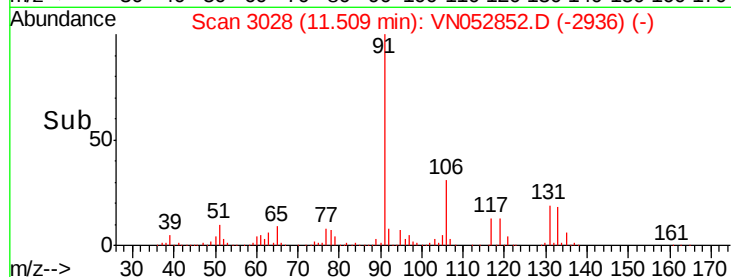
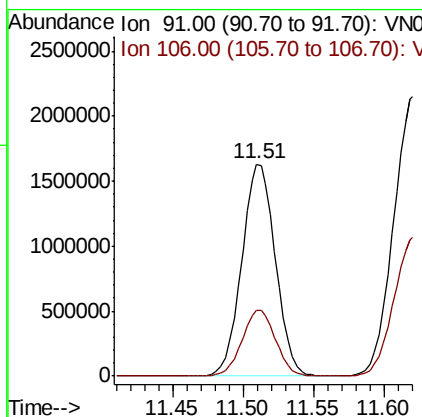
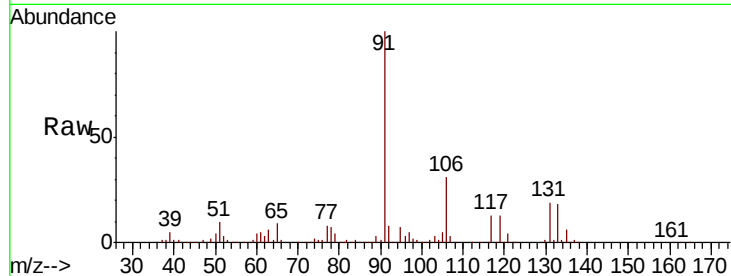
#67
Ethyl Benzene
Concen: 52.772 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN052852.D
Acq: 13 Dec 2018 9:41

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 2719251
Ion Ratio Lower Upper
91 100
106 31.0 24.9 37.3

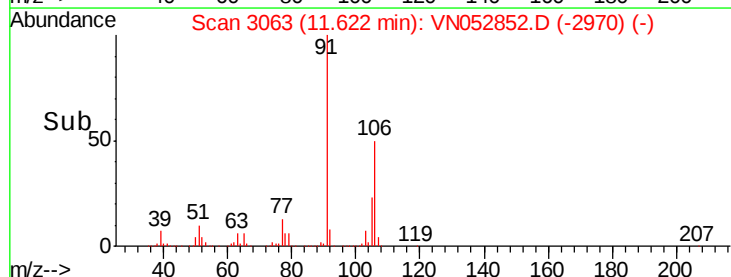
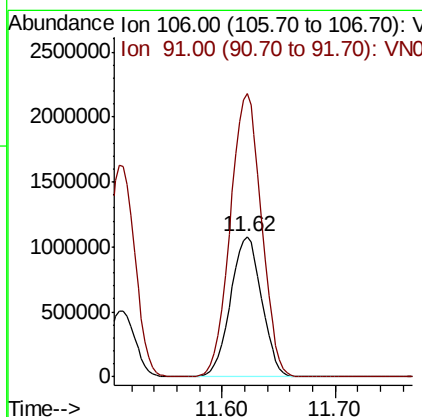
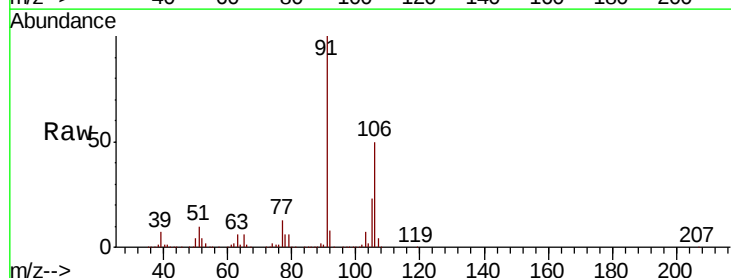
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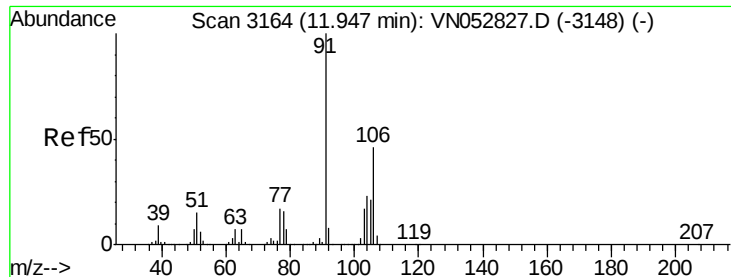
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#68
m/p-Xylenes
Concen: 106.620 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN052852.D
Acq: 13 Dec 2018 9:41

Tgt Ion: 106 Resp: 2062916
Ion Ratio Lower Upper
106 100
91 202.5 162.2 243.4





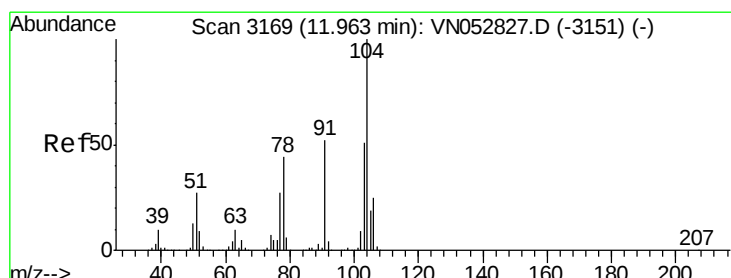
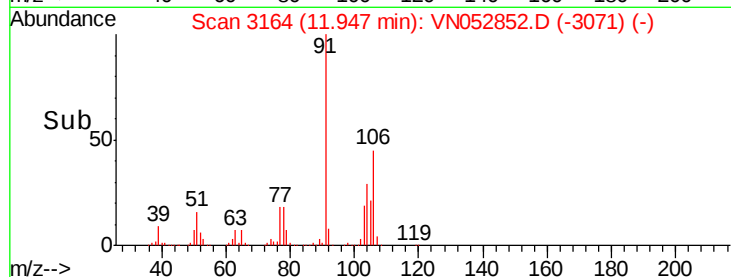
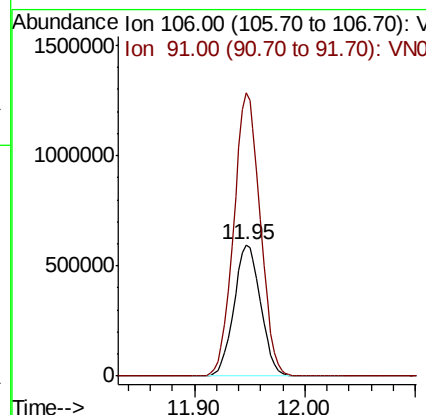
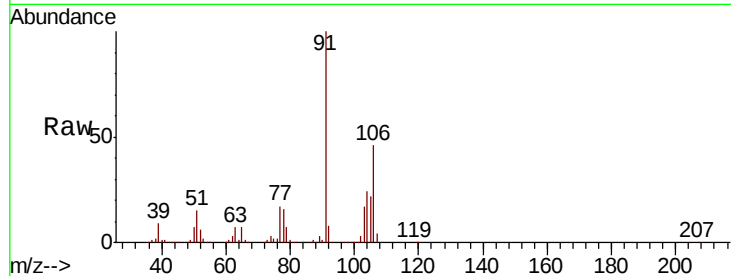
#69
o-Xylene
Concen: 52.700 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN052852.D
Acq: 13 Dec 2018 9:41

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	106	100	995666		
91	91	213.9	106.6	319.8	

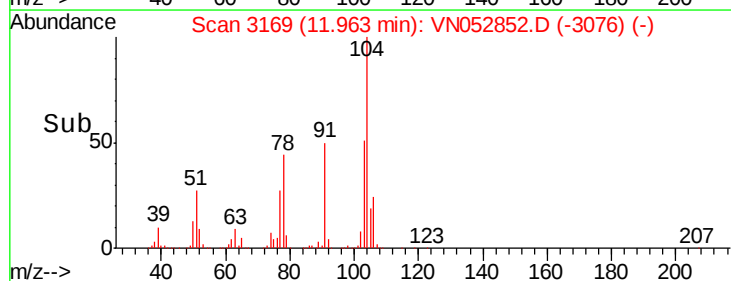
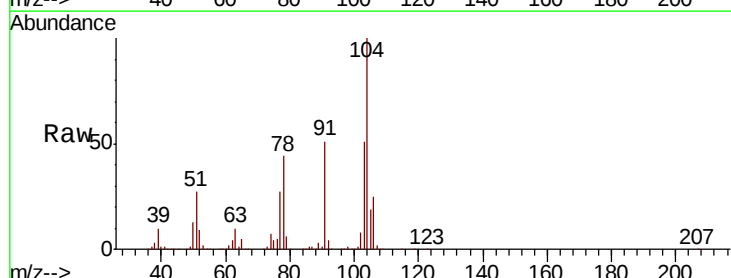
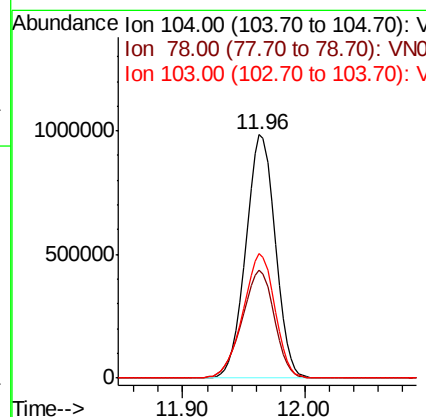
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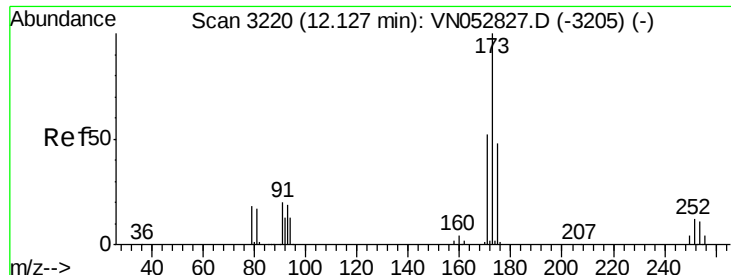
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#70
Styrene
Concen: 53.856 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN052852.D
Acq: 13 Dec 2018 9:41

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	104	100	1635677		
78	78	48.7	38.9	58.3	
103	103	55.4	44.3	66.5	





#71

Bromoform

Concen: 52.243 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN052852.D

Acq: 13 Dec 2018 9:41

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:173 Resp: 370376

Ion Ratio Lower Upper

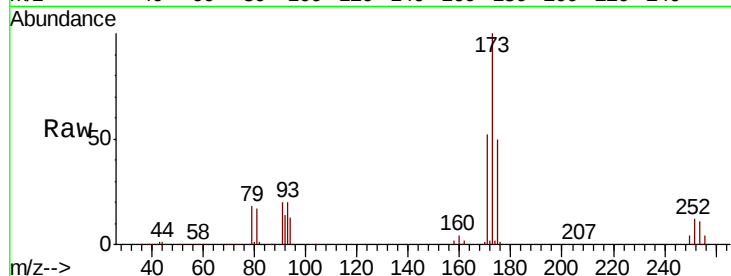
173 100

175 49.1 24.3 72.9

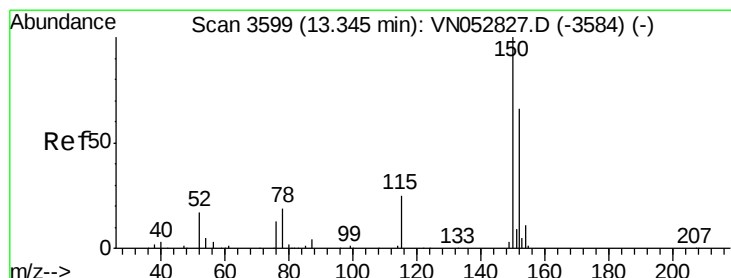
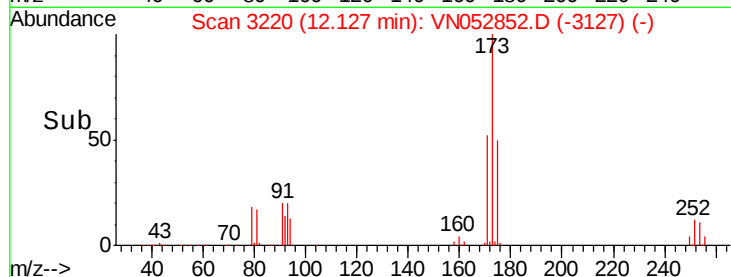
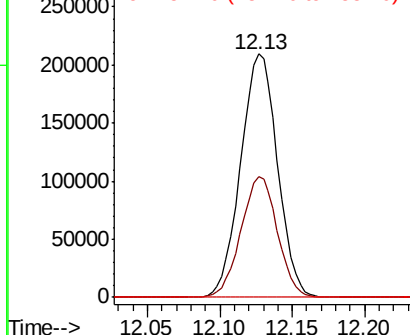
254 0.2 0.1 0.1#

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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: VN052852.D

Acq: 13 Dec 2018 9:41

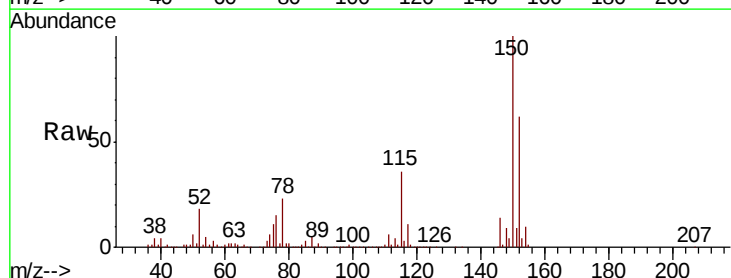
Tgt Ion:152 Resp: 687589

Ion Ratio Lower Upper

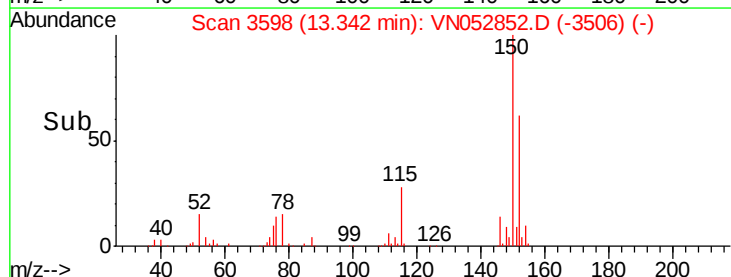
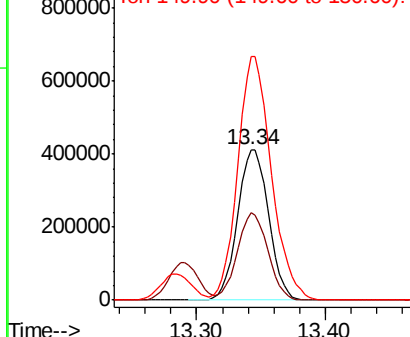
152 100

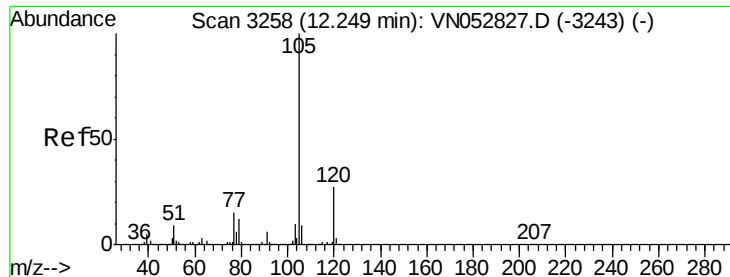
115 57.1 28.3 85.0

150 175.5 0.0 347.8



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: 52.182 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN052852.D

Acq: 13 Dec 2018 9:41

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 2678933

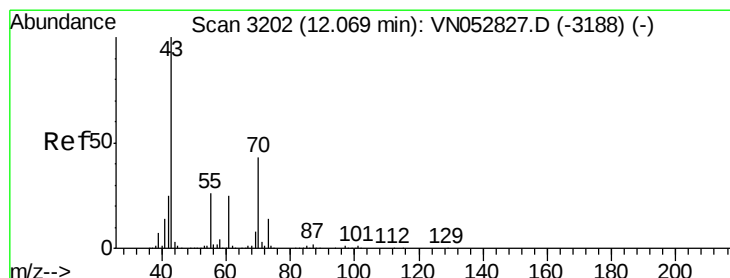
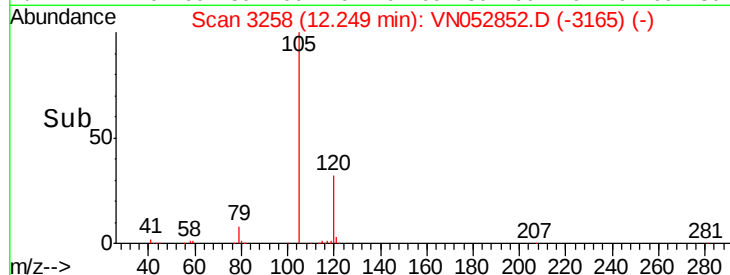
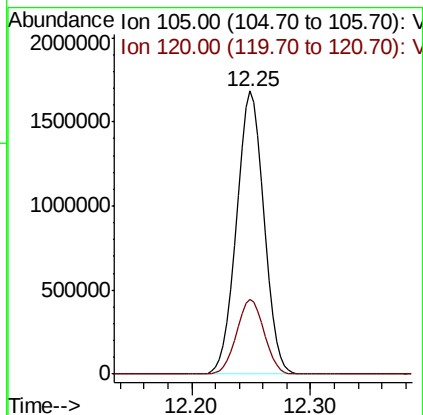
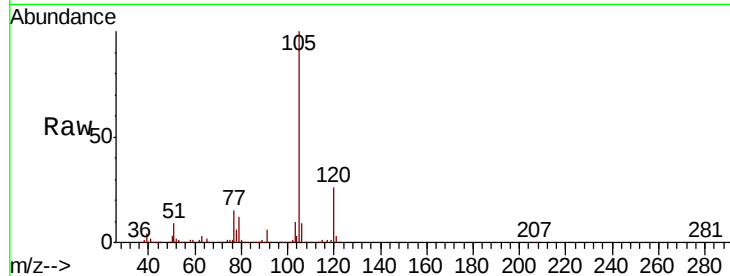
Ion Ratio Lower Upper

105 100

120 26.6 13.3 39.9

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#74

N-ethyl acetate

Concen: 50.111 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN052852.D

Acq: 13 Dec 2018 9:41

Tgt Ion: 43 Resp: 706287

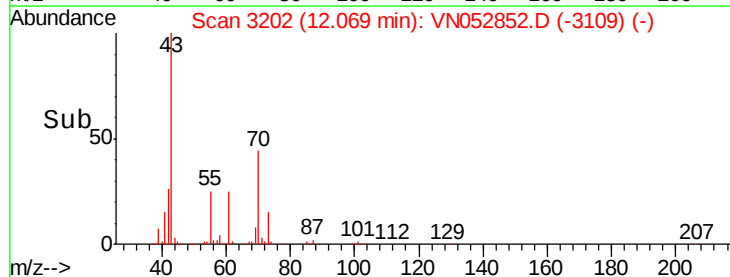
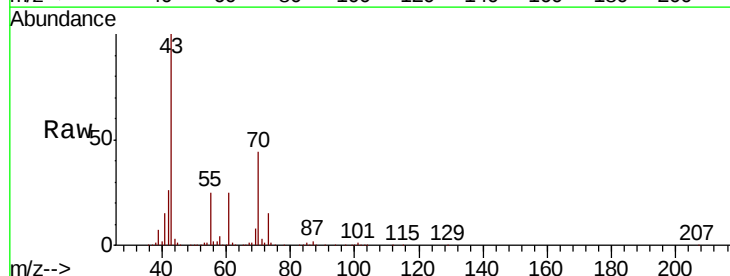
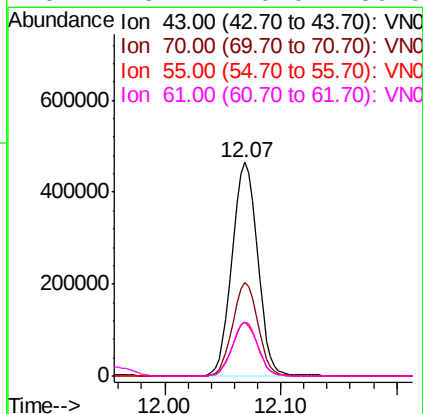
Ion Ratio Lower Upper

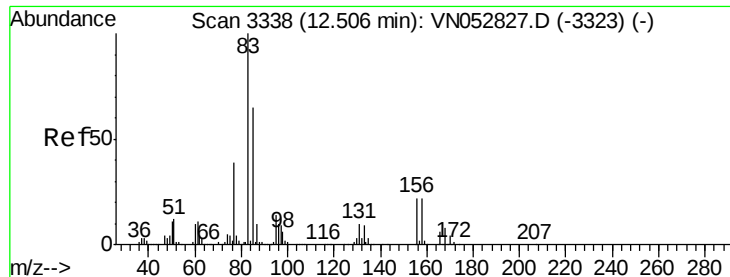
43 100

70 43.4 34.2 51.4

55 25.1 20.3 30.5

61 25.1 20.0 30.0





#75

1,1,2,2-Tetrachloroethane

Concen: 47.913 ug/l

RT: 12.51 min Scan# 3338

Delta R.T. 0.00 min

Lab File: VN052852.D

Acq: 13 Dec 2018 9:41

Instrument :

MSVOA_N

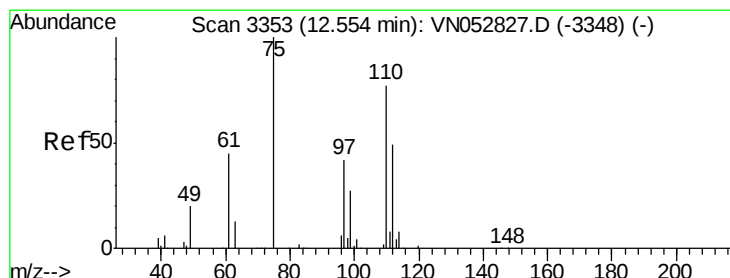
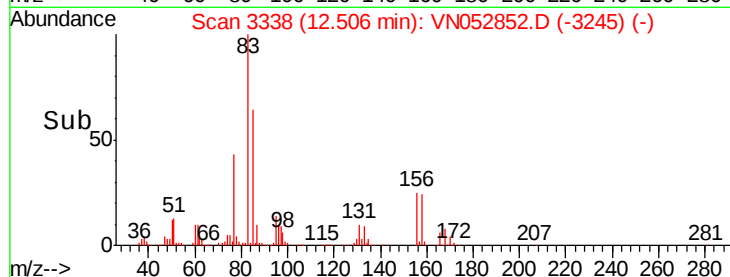
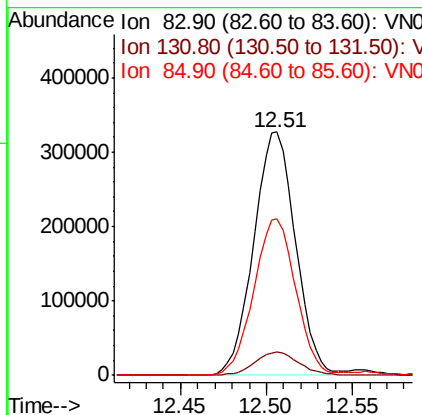
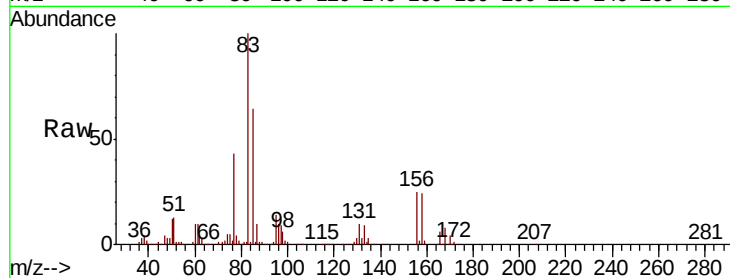
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	551262
Ion Ratio	Lower	Upper	
83	100		
131	10.2	5.2	15.6
85	64.6	32.4	97.0

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 47.571 ug/l m

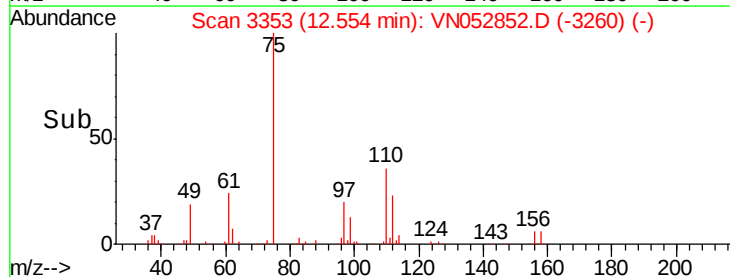
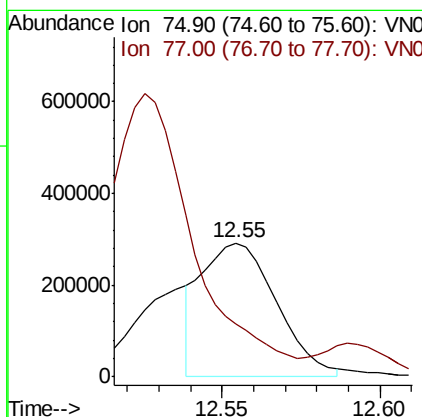
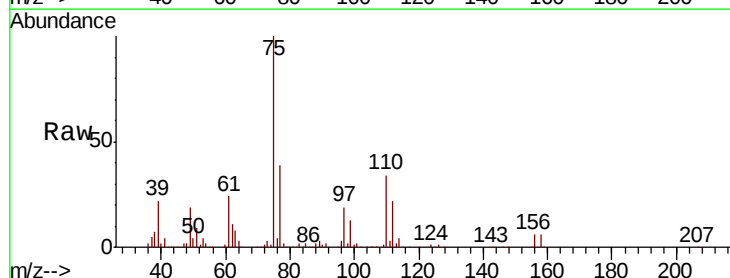
RT: 12.55 min Scan# 3353

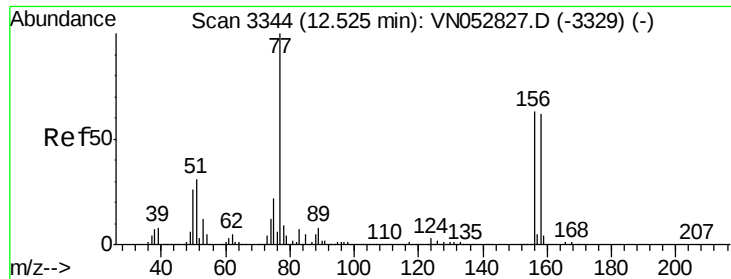
Delta R.T. 0.00 min

Lab File: VN052852.D

Acq: 13 Dec 2018 9:41

Tgt Ion:	75	Resp:	482593
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 51.234 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN052852.D

Acq: 13 Dec 2018 9:41

Instrument :

MSVOA_N

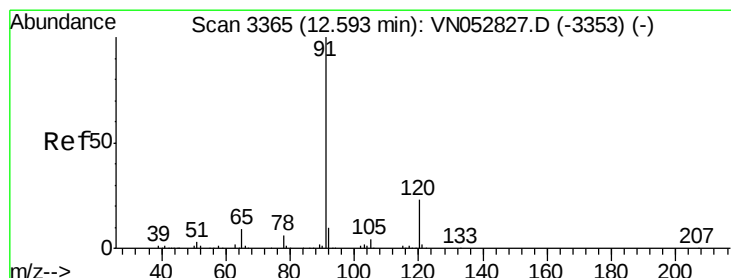
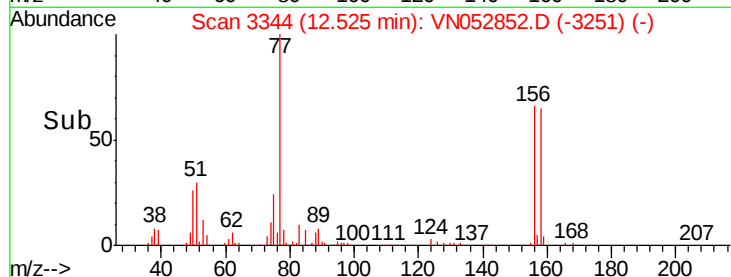
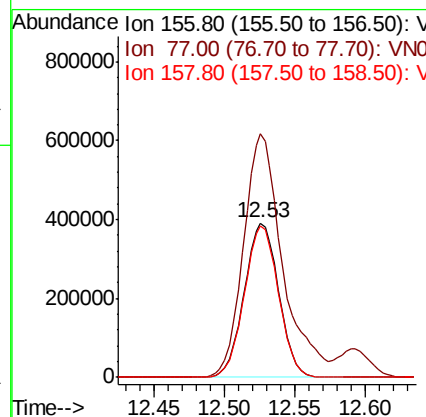
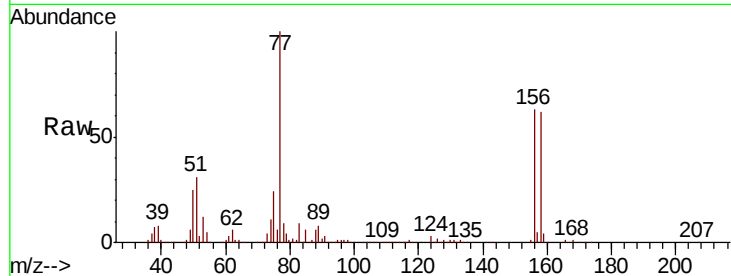
ClientSampleId :

VSTDCCC050

Tot Ion:	156	Resp:	668996
Ion Ratio	Lower	Upper	
156	100		
77	178.9	91.3	273.8
158	97.4	49.0	147.2

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#78

n-propylbenzene

Concen: 53.347 ug/l

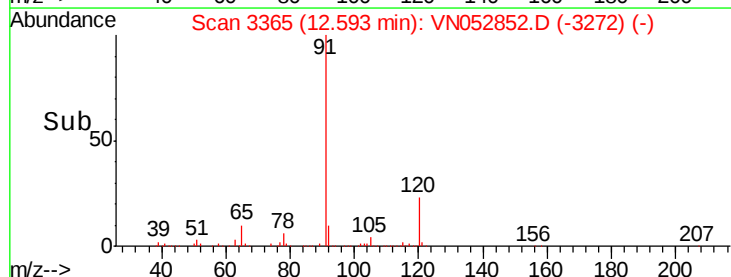
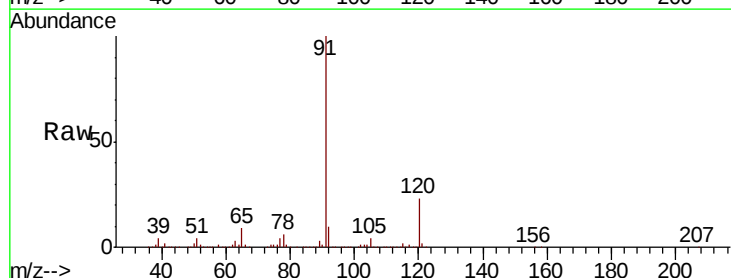
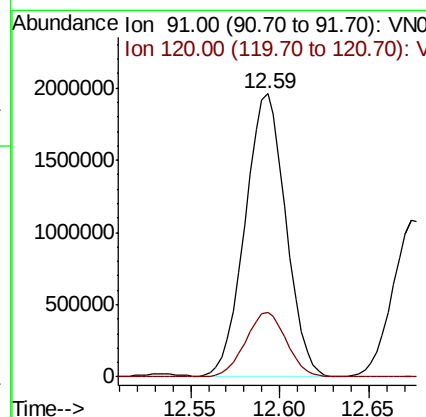
RT: 12.59 min Scan# 3365

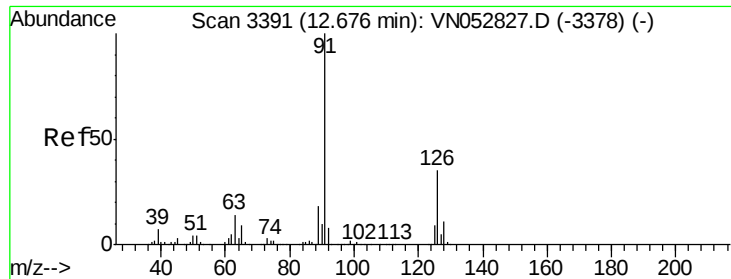
Delta R.T. 0.00 min

Lab File: VN052852.D

Acq: 13 Dec 2018 9:41

Tgt Ion:	91	Resp:	3123458
Ion Ratio	Lower	Upper	
91	100		
120	22.9	11.5	34.5





#79

2-Chlorotoluene

Concen: 51.741 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN052852.D

Acq: 13 Dec 2018 9:41

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 1790973

Ion Ratio Lower Upper

91 100

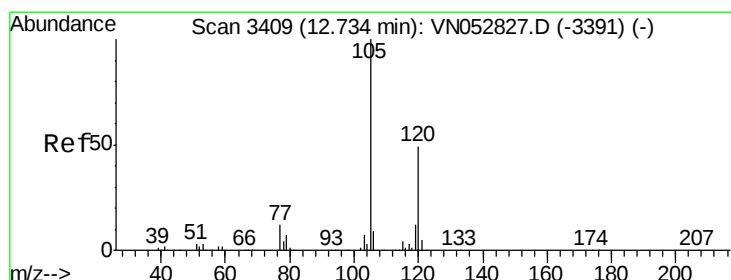
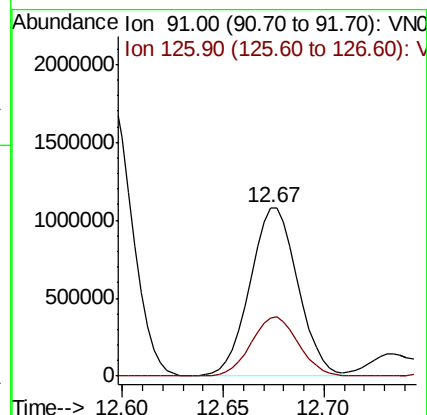
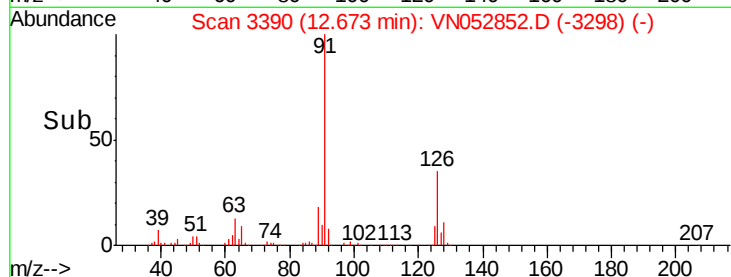
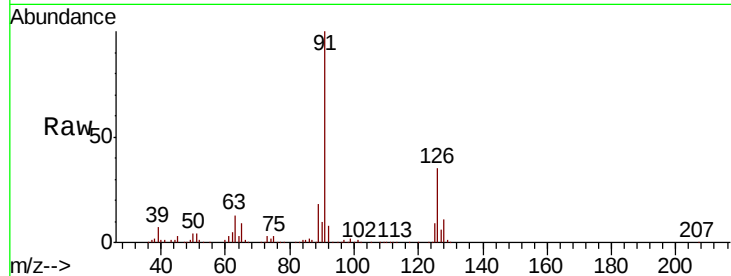
126 35.0 17.4 52.3

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#80

1,3,5-Trimethylbenzene

Concen: 52.458 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN052852.D

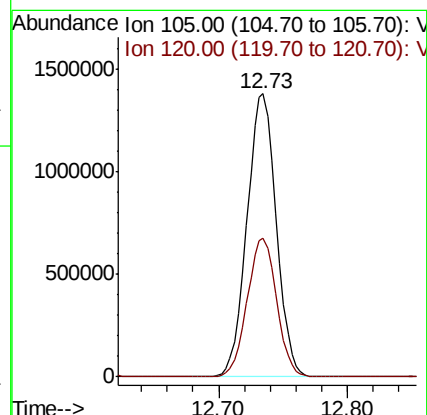
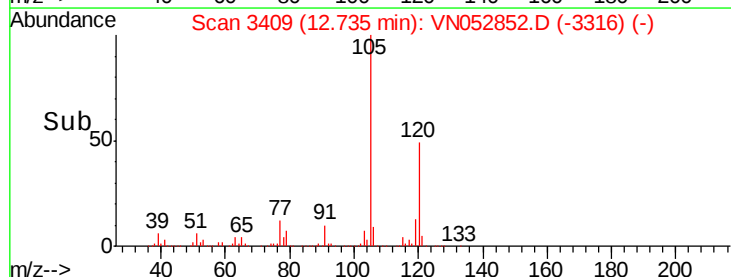
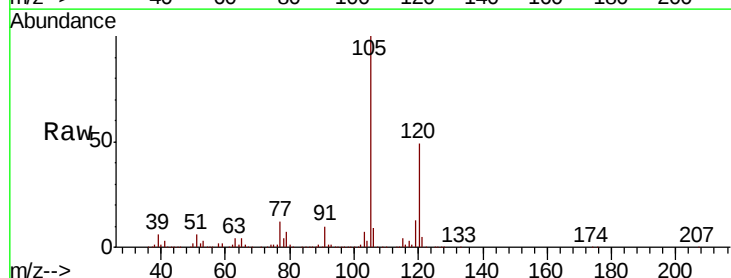
Acq: 13 Dec 2018 9:41

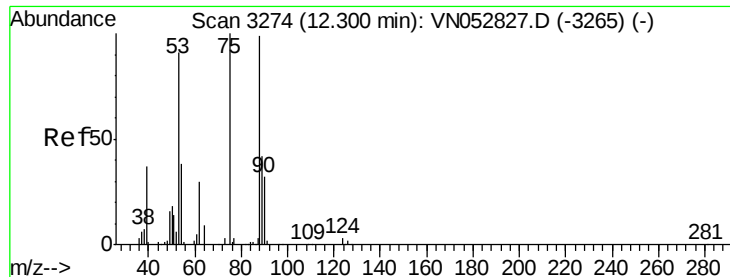
Tgt Ion: 105 Resp: 2174012

Ion Ratio Lower Upper

105 100

120 49.4 24.4 73.2





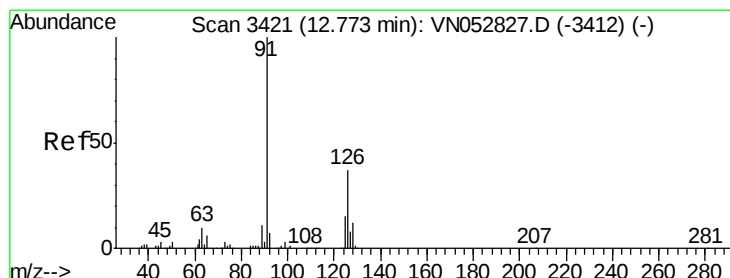
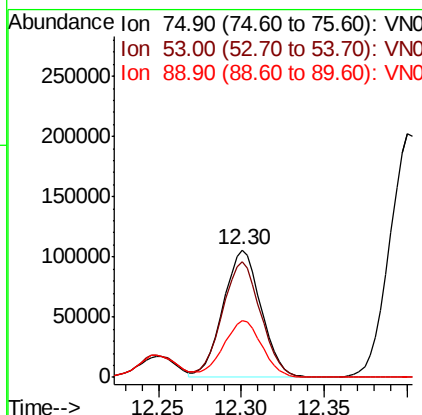
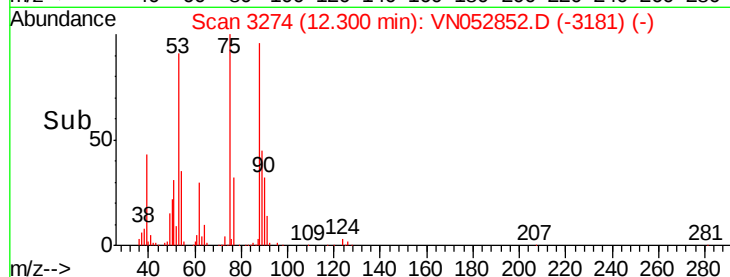
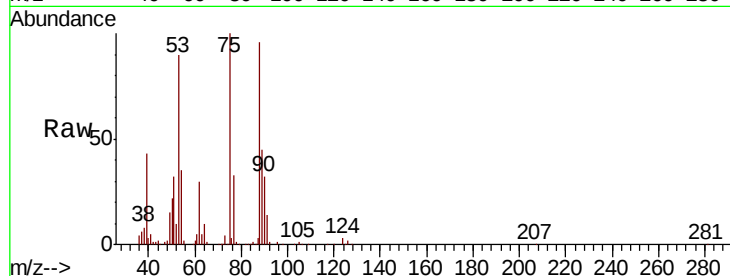
#81
trans-1,4-Dichloro-2-butene
Concen: 53.730 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. 0.00 min
Lab File: VN052852.D
Acq: 13 Dec 2018 9:41

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
75	100		
53	91.0	74.7	112.1
89	45.0	36.1	54.1

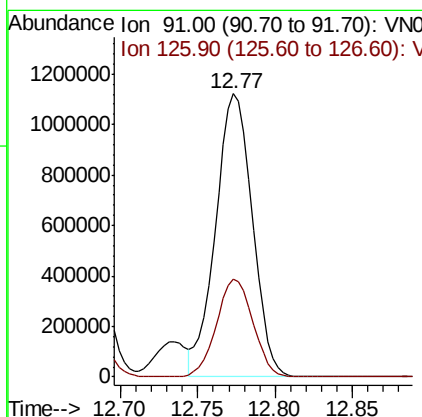
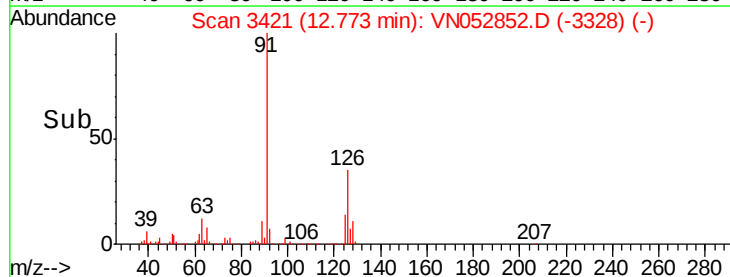
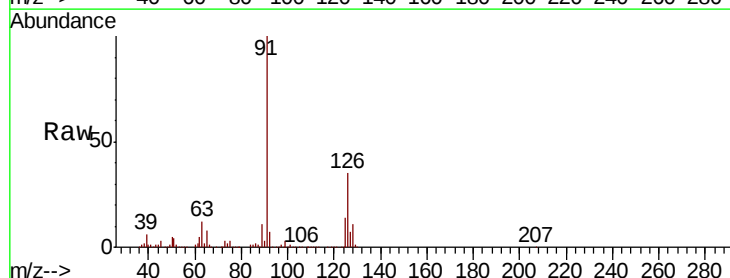
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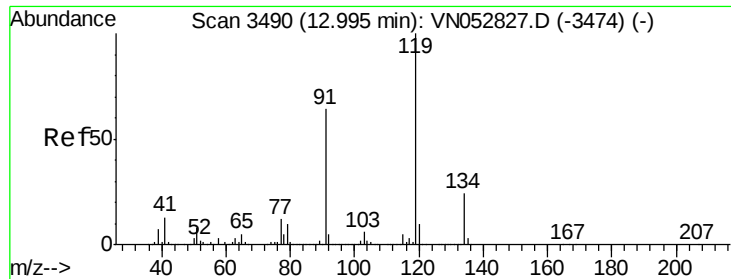
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#82
4-Chlorotoluene
Concen: 52.119 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. 0.00 min
Lab File: VN052852.D
Acq: 13 Dec 2018 9:41

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.4	17.3	51.7





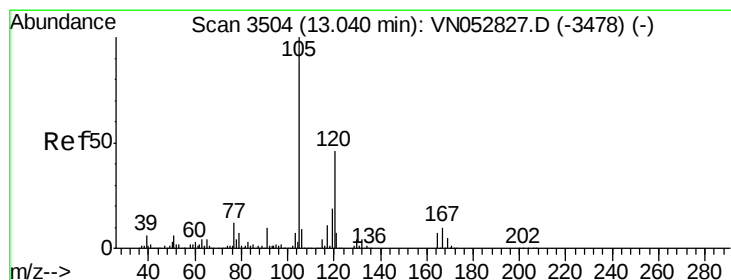
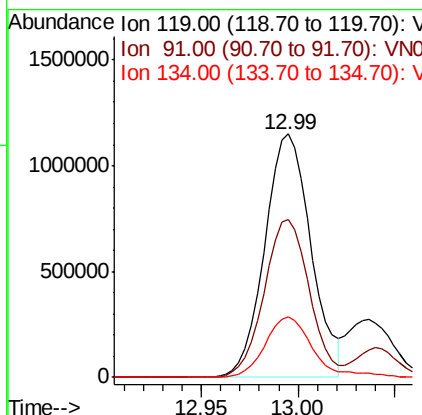
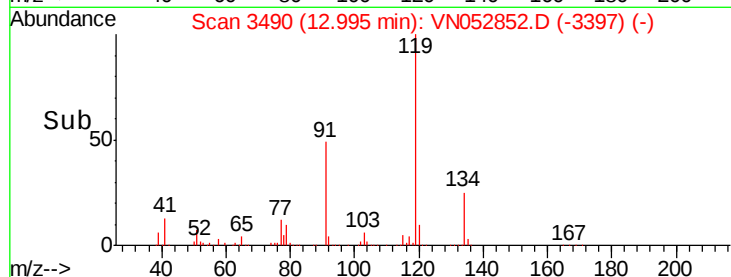
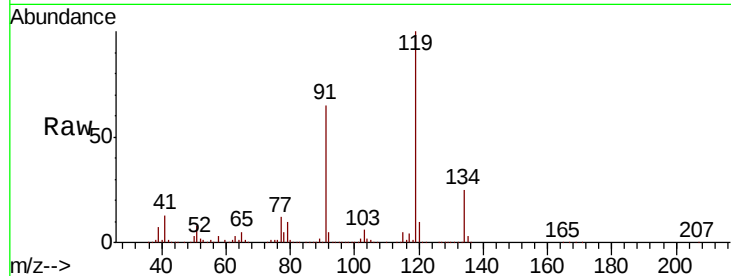
#83
 tert-Butylbenzene
 Concen: 52.248 ug/l
 RT: 12.99 min Scan# 3490
 Delta R.T. 0.00 min
 Lab File: VN052852.D
 Acq: 13 Dec 2018 9:41

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
119	100		
91	63.5	31.9	95.5
134	25.9	12.8	38.4

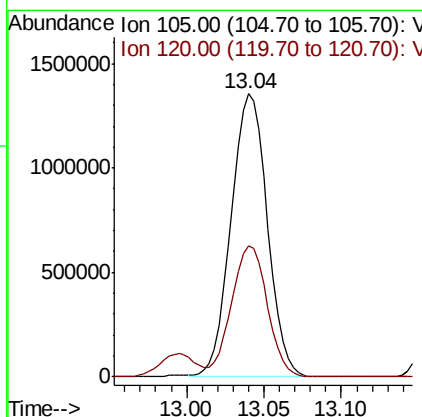
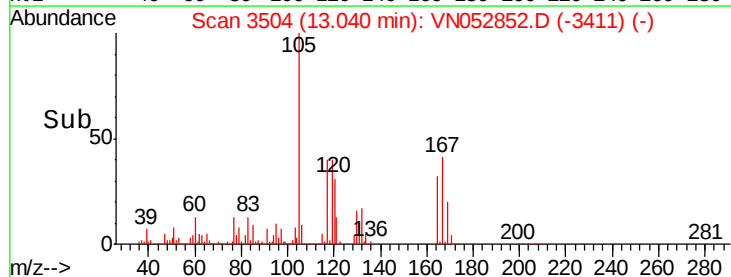
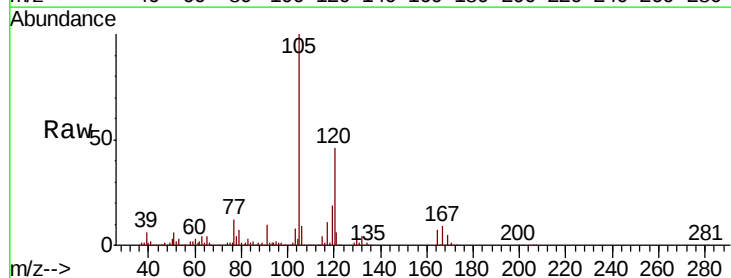
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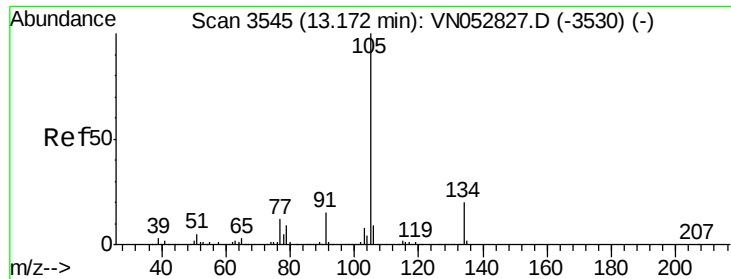
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#84
 1,2,4-Trimethylbenzene
 Concen: 52.404 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.00 min
 Lab File: VN052852.D
 Acq: 13 Dec 2018 9:41

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.1	22.9	68.8





#85

sec-Butylbenzene

Concen: 52.954 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN052852.D

Acq: 13 Dec 2018 9:41

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 2621736

Ion Ratio Lower Upper

105 100

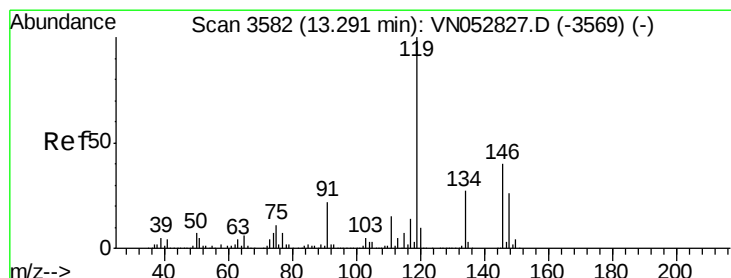
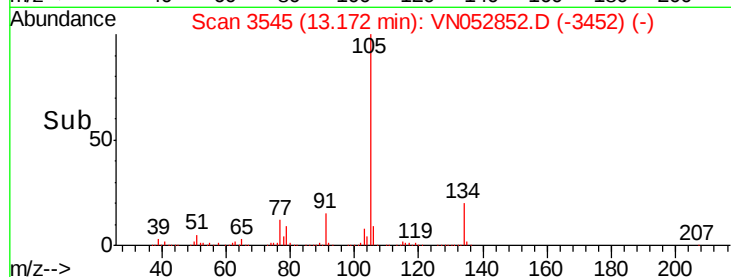
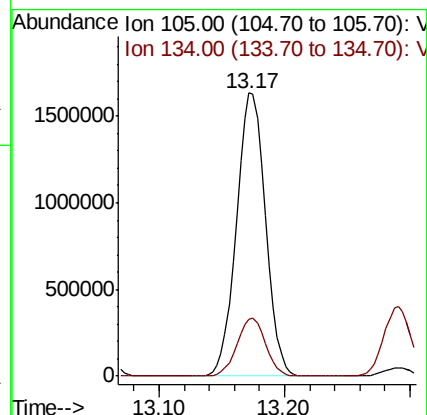
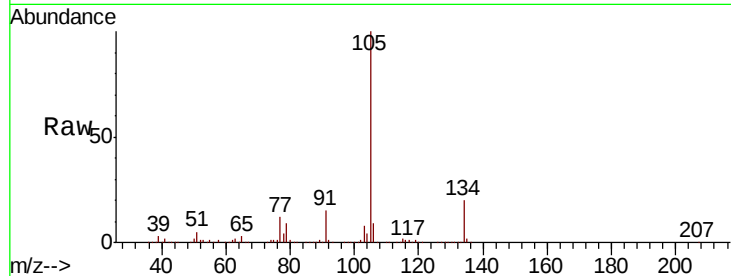
134 20.2 10.1 30.3

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#86

p-Isopropyltoluene

Concen: 53.310 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN052852.D

Acq: 13 Dec 2018 9:41

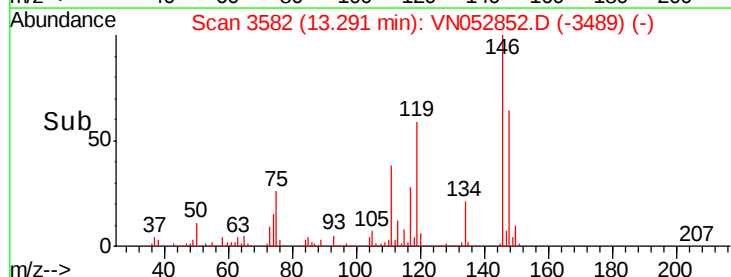
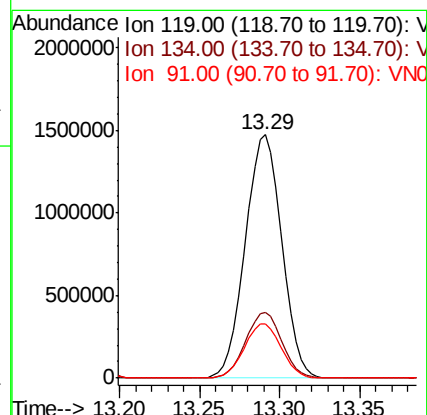
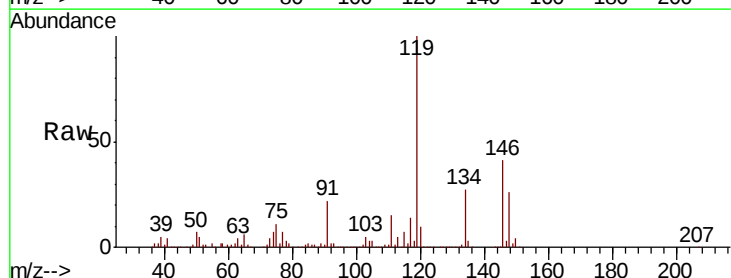
Tgt Ion:119 Resp: 2286679

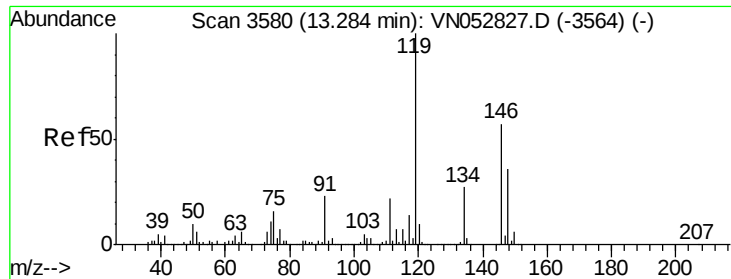
Ion Ratio Lower Upper

119 100

134 26.8 13.4 40.2

91 22.5 11.1 33.3





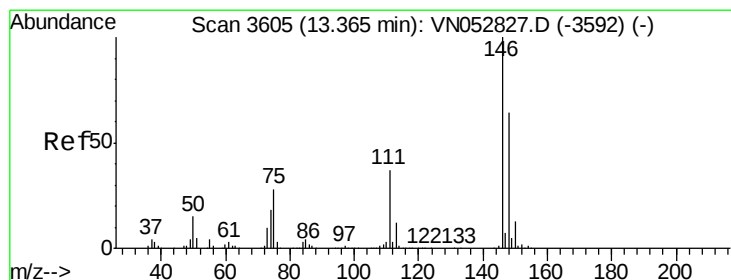
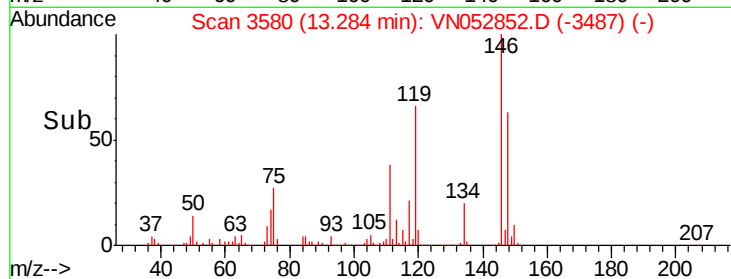
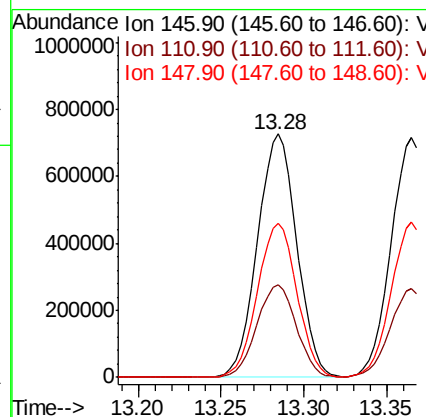
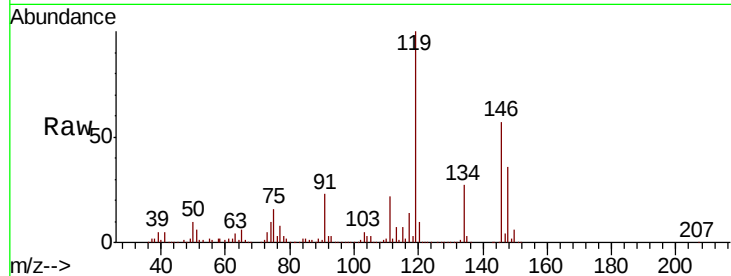
#87
 1,3-Dichlorobenzene
 Concen: 51.763 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN052852.D
 Acq: 13 Dec 2018 9:41

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.3	19.1	57.1
148	63.5	32.0	96.0

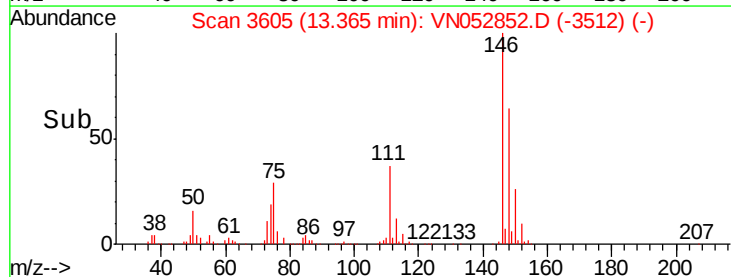
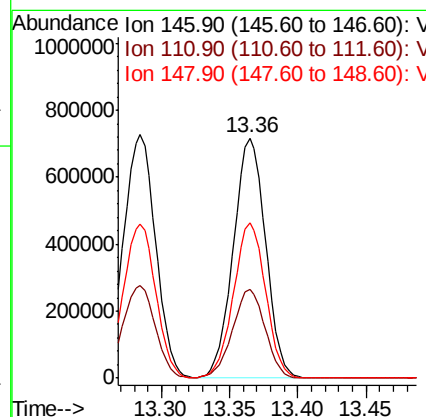
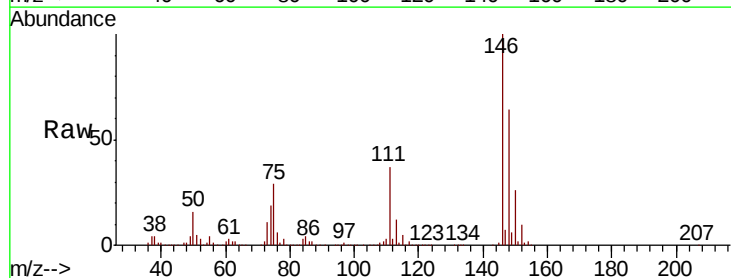
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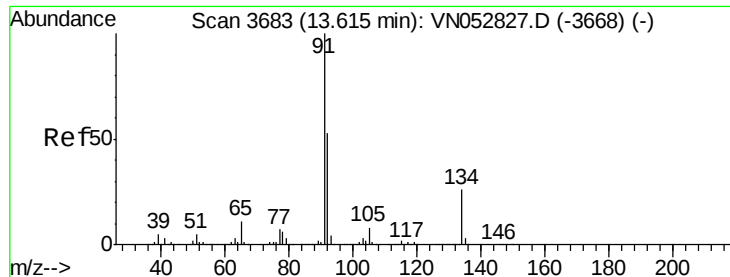
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#88
 1,4-Dichlorobenzene
 Concen: 51.187 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN052852.D
 Acq: 13 Dec 2018 9:41

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.4	18.6	55.8
148	64.3	32.1	96.5





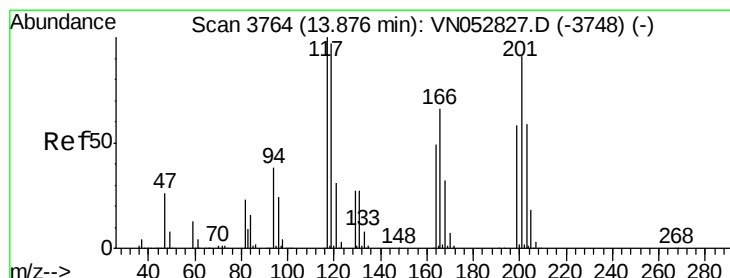
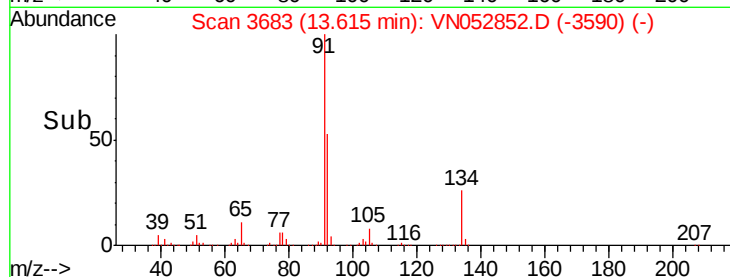
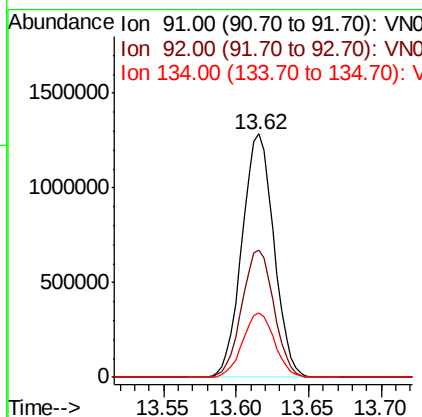
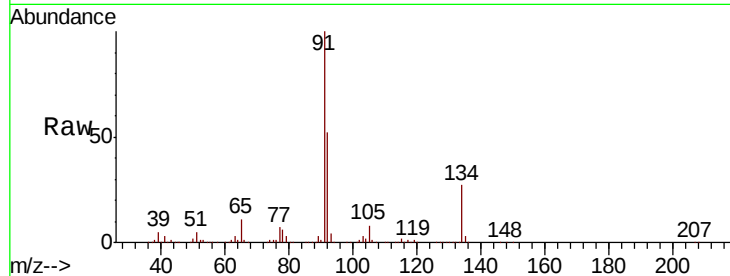
#89
n-Butylbenzene
Concen: 54.556 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN052852.D
Acq: 13 Dec 2018 9:41

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 1969995
Ion Ratio Lower Upper
91 100
92 52.7 26.3 78.9
134 26.4 13.3 39.8

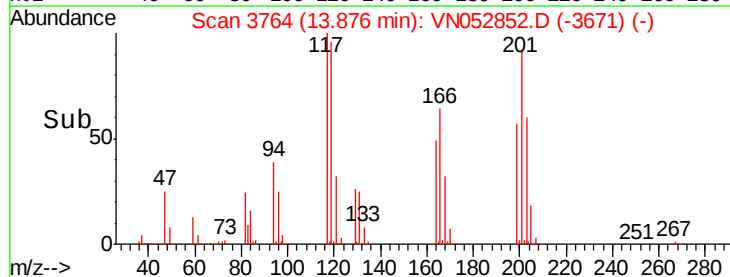
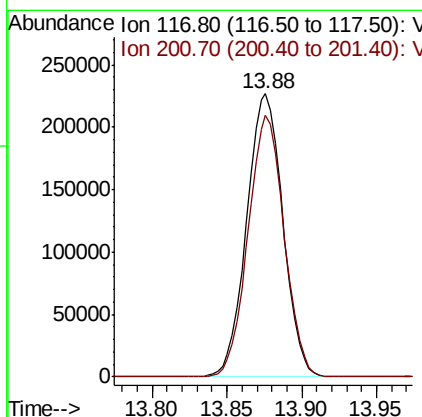
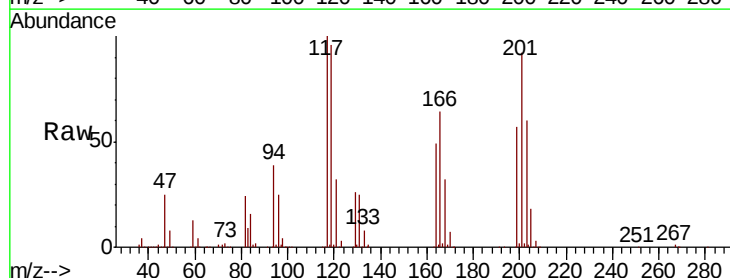
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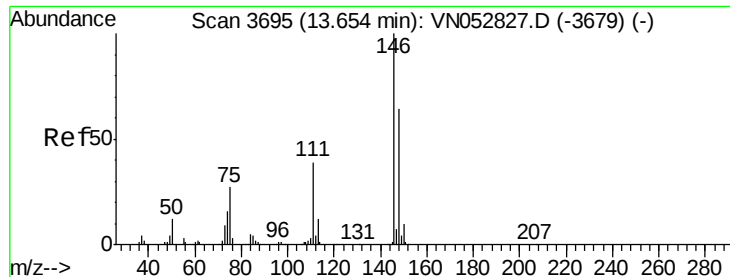
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#90
Hexachloroethane
Concen: 53.124 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. 0.00 min
Lab File: VN052852.D
Acq: 13 Dec 2018 9:41

Tgt Ion: 117 Resp: 381565
Ion Ratio Lower Upper
117 100
201 91.6 45.7 137.1





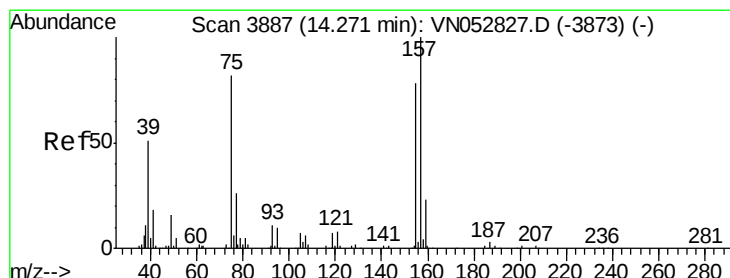
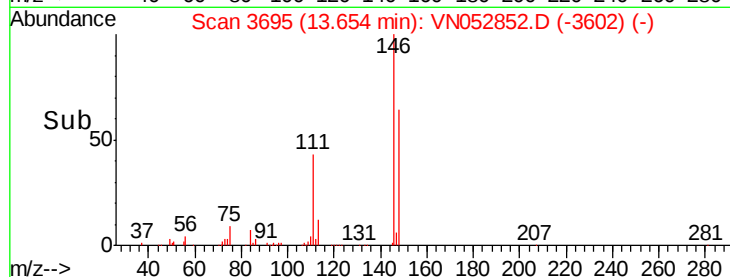
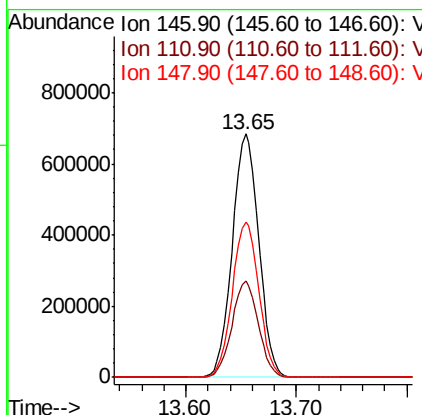
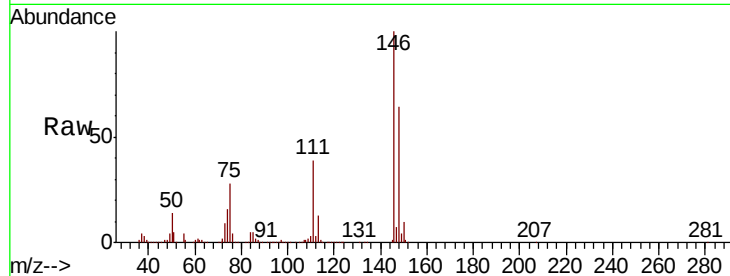
#91
 1,2-Dichlorobenzene
 Concen: 51.007 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN052852.D
 Acq: 13 Dec 2018 9:41

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.3	19.7	59.0
148	64.0	32.0	96.0

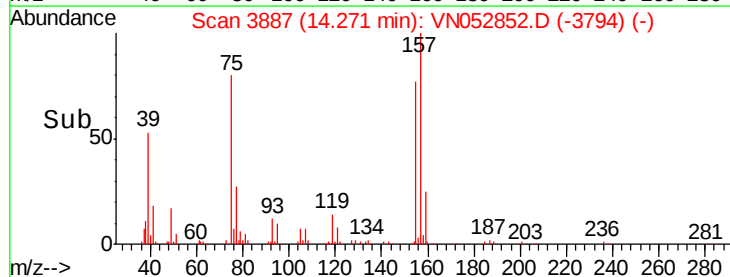
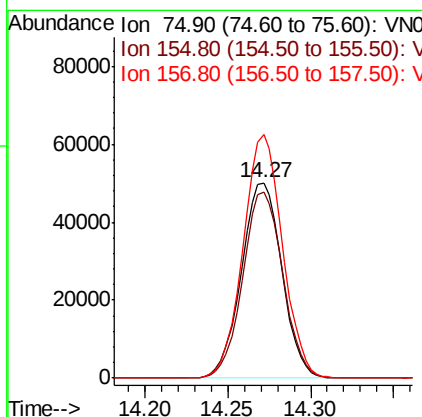
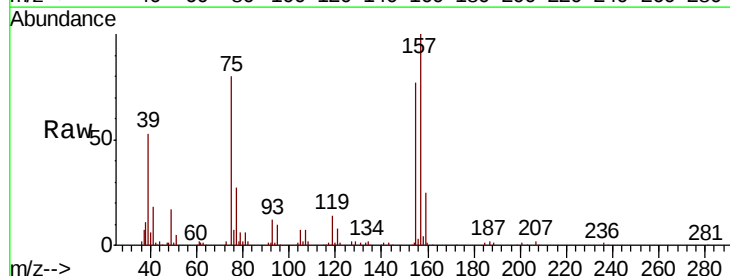
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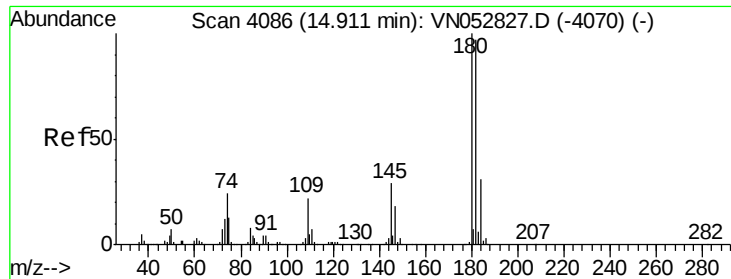
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 48.948 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. 0.00 min
 Lab File: VN052852.D
 Acq: 13 Dec 2018 9:41

Tgt Ion	Ratio	Lower	Upper
75	100		
155	94.3	48.2	144.6
157	121.3	61.2	183.5





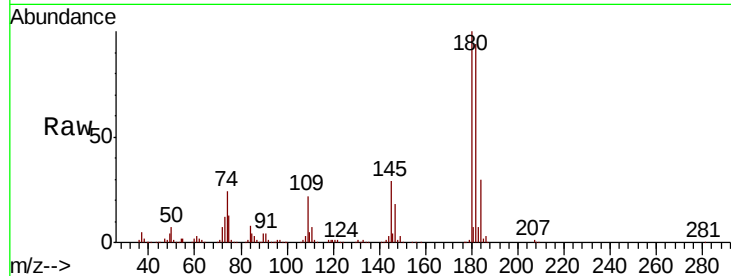
#93
 1,2,4-Trichlorobenzene
 Concen: 53.515 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. -0.00 min
 Lab File: VN052852.D
 Acq: 13 Dec 2018 9:41

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
180	100	649309		
182	95.0	47.8	143.3	
145	28.6	14.2	42.6	

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 12/14/2018 9:02:06 AM

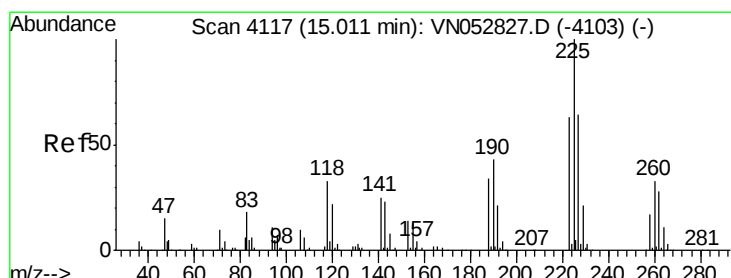
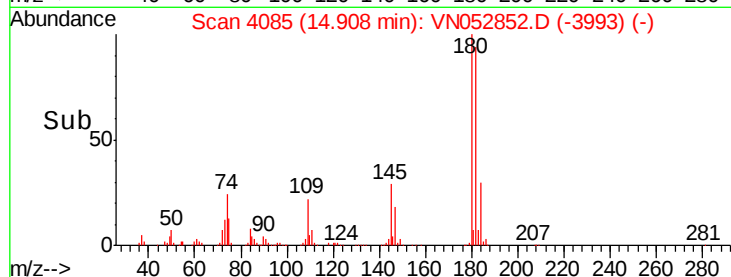
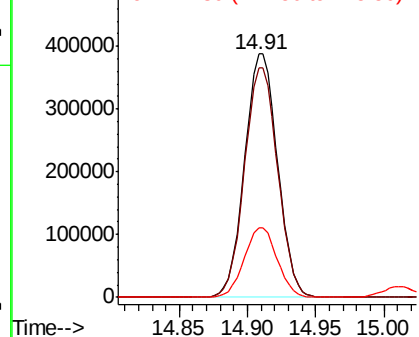


Abundance

Ion 179.80 (179.50 to 180.50): V

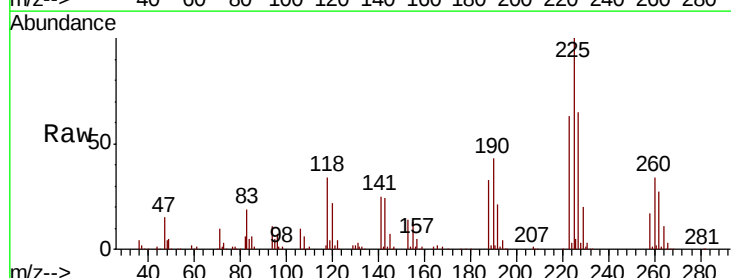
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94
 Hexachlorobutadiene
 Concen: 52.735 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN052852.D
 Acq: 13 Dec 2018 9:41

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	370359		
223	62.6	31.5	94.5	
227	64.3	31.9	95.7	

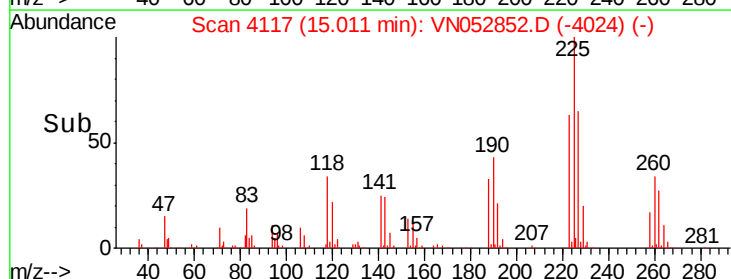
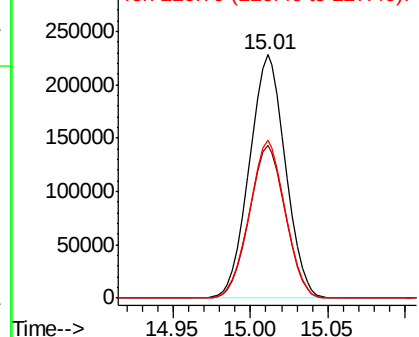


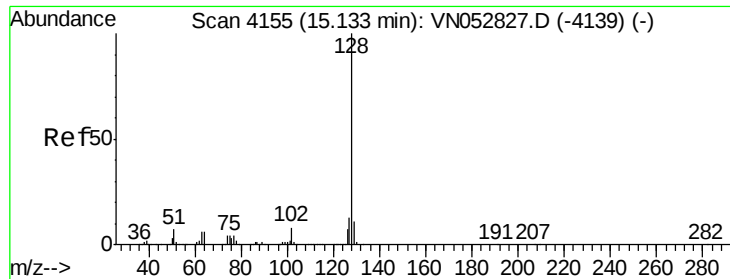
Abundance

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: 51.832 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN052852.D

Acq: 13 Dec 2018 9:41

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:128 Resp: 1302539

Ion Ratio Lower Upper

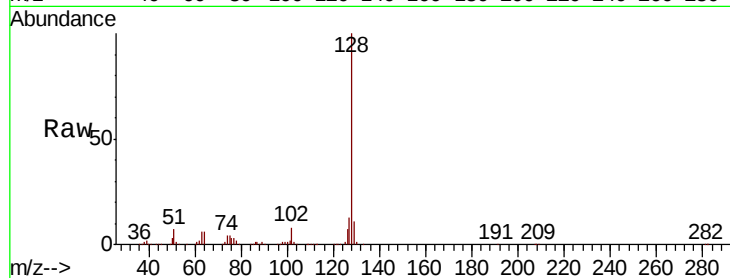
128 100

127 12.7 10.2 15.4

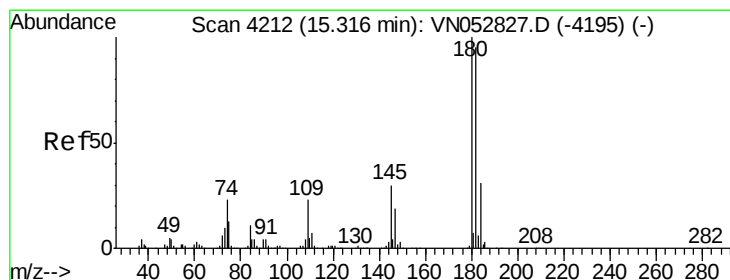
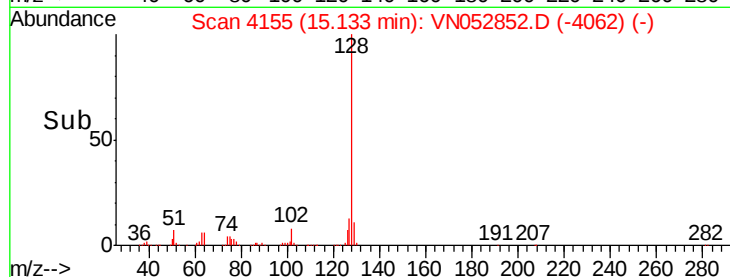
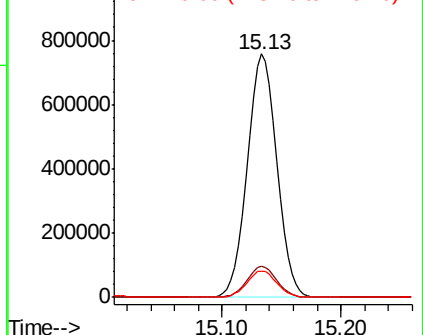
129 10.9 8.6 13.0

Manual Integrations
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12/14/2018 9:02:06 AM



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: 52.338 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN052852.D

Acq: 13 Dec 2018 9:41

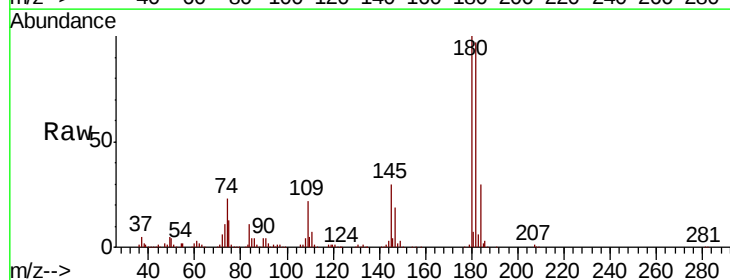
Tgt Ion:180 Resp: 582696

Ion Ratio Lower Upper

180 100

182 96.0 47.9 143.7

145 30.3 15.0 45.0



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

