

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092018\
 Data File : VN051345.D
 Acq On : 20 Sep 2018 17:42
 Operator : MD\SY
 Sample : VN0920WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0920WBSD01

Manual Integrations
 APPROVED

MMDadoda
 9/24/2018 2:48:19 PM

Quant Time: Sep 21 06:58:16 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N092018W.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 21 03:27:45 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	689685	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	936772	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	842088	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	421125	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	363912	48.68	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.36%	
35) Dibromofluoromethane	7.59	113	364888	48.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.40%	
50) Toluene-d8	10.09	98	1374663	47.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.48%	
62) 4-Bromofluorobenzene	12.40	95	436389	46.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.18%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	109623	19.021	ug/l	98
3) Chloromethane	2.06	50	149512	18.285	ug/l	98
4) Vinyl Chloride	2.18	62	158209	19.474	ug/l	100
5) Bromomethane	2.57	94	114620	20.227	ug/l	99
6) Chloroethane	2.70	64	97994	19.628	ug/l	98
7) Trichlorofluoromethane	3.02	101	224050	19.291	ug/l	96
8) Diethyl Ether	3.41	74	75819	20.403	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	3.76	101	139487	19.573	ug/l	98
10) Methyl Iodide	3.95	142	208155	19.736	ug/l	100
11) Tert butyl alcohol	4.79	59	39218	98.959	ug/l	96
12) 1,1-Dichloroethene	3.74	96	127716	19.797	ug/l	95
13) Acrolein	3.61	56	48125	106.099	ug/l	99
14) Allyl chloride	4.33	41	181762	19.989	ug/l	99
15) Acrylonitrile	4.99	53	199807	99.487	ug/l	99
16) Acetone	3.82	43	133677	87.053	ug/l	95
17) Carbon Disulfide	4.05	76	385089	19.810	ug/l	98
18) Methyl Acetate	4.33	43	91120	17.268	ug/l	99
19) Methyl tert-butyl Ether	5.05	73	320033	20.497	ug/l	96
20) Methylene Chloride	4.55	84	149324	19.433	ug/l	98
21) trans-1,2-Dichloroethene	5.04	96	138932	20.390	ug/l	98
22) Diisopropyl ether	5.95	45	384546	21.409	ug/l	96
23) Vinyl Acetate	5.90	43	1218059	104.841	ug/l	99
24) 1,1-Dichloroethane	5.85	63	243244	19.867	ug/l	99
25) 2-Butanone	6.84	43	207381	97.098	ug/l	100
26) 2,2-Dichloropropane	6.83	77	195960	19.369	ug/l	98
27) cis-1,2-Dichloroethene	6.83	96	153650	20.350	ug/l	100
28) Bromochloromethane	7.20	49	102167	20.133	ug/l	98
29) Tetrahydrofuran	7.22	42	138916	102.665	ug/l	99
30) Chloroform	7.37	83	252418	19.617	ug/l	99
31) Cyclohexane	7.66	56	218699	18.154	ug/l	97
32) 1,1,1-Trichloroethane	7.57	97	221340	19.965	ug/l	100
36) 1,1-Dichloropropene	7.79	75	192275	20.066	ug/l	98
37) Ethyl Acetate	6.93	43	99979	21.076	ug/l	97
38) Carbon Tetrachloride	7.77	117	203016	19.585	ug/l	99

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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	223891	20.021	ug/l	97
40) Benzene	8.04	78	579647	20.077	ug/l	99
41) Methacrylonitrile	7.17	41	49023	19.837	ug/l #	94
42) 1,2-Dichloroethane	8.13	62	170742	19.577	ug/l	99
43) Isopropyl Acetate	8.17	43	176650	21.263	ug/l #	88
44) Trichloroethene	8.84	130	164711	19.873	ug/l	96
45) 1,2-Dichloropropane	9.12	63	149614	20.251	ug/l	99
46) Dibromomethane	9.21	93	90477	19.866	ug/l	99
47) Bromodichloromethane	9.40	83	188284	19.381	ug/l	97
48) Methyl methacrylate	9.20	41	82939	19.582	ug/l	98
49) 1,4-Dioxane	9.20	88	25342	404.602	ug/l	96
51) 4-Methyl-2-Pentanone	9.99	43	471845	105.586	ug/l	100
52) Toluene	10.16	92	371385	20.890	ug/l	97
53) t-1,3-Dichloropropene	10.38	75	186834	20.031	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	221065	20.469	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	129987	19.493	ug/l	99
56) Ethyl methacrylate	10.43	69	145881	20.712	ug/l	99
57) 1,3-Dichloropropane	10.71	76	213636	20.339	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.70	63	370588	107.011	ug/l	99
59) 2-Hexanone	10.75	43	299091	99.273	ug/l	98
60) Dibromochloromethane	10.90	129	151815	19.523	ug/l	99
61) 1,2-Dibromoethane	11.00	107	126087	19.667	ug/l	100
64) Tetrachloroethene	10.63	164	151751	20.665	ug/l	98
65) Chlorobenzene	11.43	112	407151	20.238	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.51	131	154627	20.189	ug/l	100
67) Ethyl Benzene	11.51	91	654578	20.798	ug/l	98
68) m/p-Xylenes	11.62	106	524589	42.426	ug/l	98
69) o-Xylene	11.95	106	250190	20.990	ug/l	100
70) Styrene	11.96	104	393421	21.264	ug/l	100
71) Bromoform	12.13	173	104463	20.097	ug/l #	100
73) Isopropylbenzene	12.25	105	669688	21.698	ug/l	99
74) N-amyl acetate	12.07	43	132603	20.082	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	153754	20.186	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	119230m	19.606	ug/l	
77) Bromobenzene	12.53	156	173960	20.400	ug/l	98
78) n-propylbenzene	12.59	91	727580	21.624	ug/l	99
79) 2-Chlorotoluene	12.67	91	442982	21.363	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	558661	22.328	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	37447	21.318	ug/l	99
82) 4-Chlorotoluene	12.77	91	436643	21.665	ug/l	99
83) tert-Butylbenzene	12.99	119	489733	21.868	ug/l	98
84) 1,2,4-Trimethylbenzene	13.04	105	555609	22.373	ug/l	99
85) sec-Butylbenzene	13.17	105	653095	21.929	ug/l	100
86) p-Isopropyltoluene	13.29	119	569336	21.966	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	294262	20.530	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	280488	20.187	ug/l	99
89) n-Butylbenzene	13.61	91	421365	20.913	ug/l	99
90) Hexachloroethane	13.87	117	106406	19.170	ug/l	98
91) 1,2-Dichlorobenzene	13.65	146	289211	20.887	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.27	75	20320	20.142	ug/l	97

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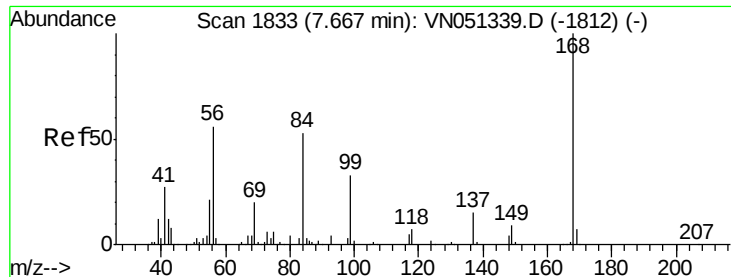
Manual Integrations
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	130502	20.560	ug/l	99
94) Hexachlorobutadiene	15.01	225	108021	20.102	ug/l	98
95) Naphthalene	15.13	128	219104	19.582	ug/l	100
96) 1,2,3-Trichlorobenzene	15.31	180	132368	20.960	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN051345.D

Acq: 20 Sep 2018 17:42

Instrument :

MSVOA_N

ClientSampleId :

VN0920WBSD01

Tot Ion:168 Resp: 689685

Ion Ratio Lower Upper

168 100

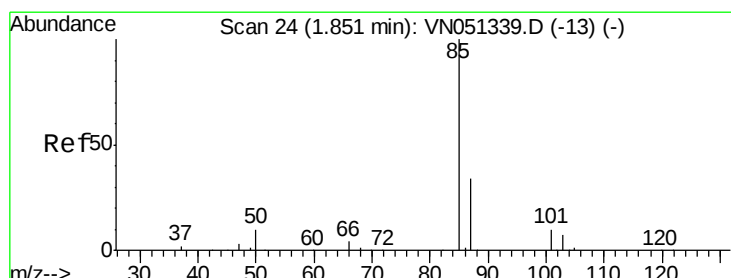
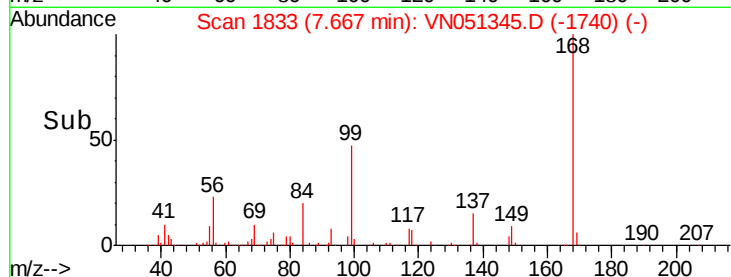
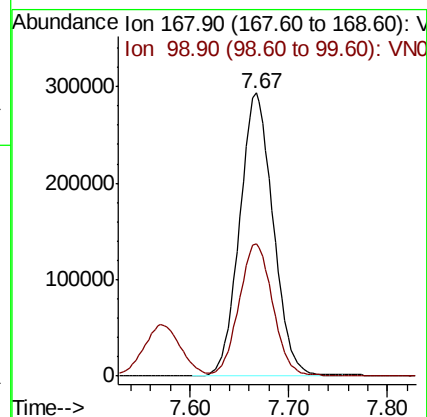
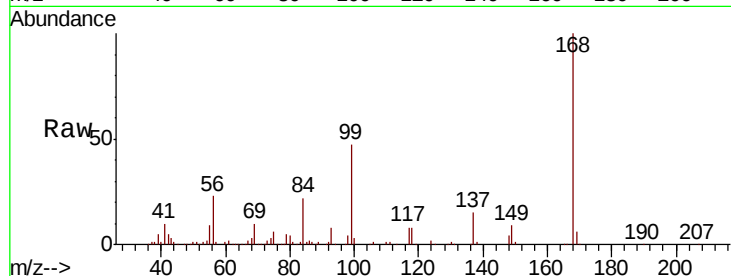
99 46.6 37.1 55.7

Manual Integrations

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#2

Dichlorodifluoromethane

Concen: 19.021 ug/l

RT: 1.85 min Scan# 24

Delta R.T. -0.00 min

Lab File: VN051345.D

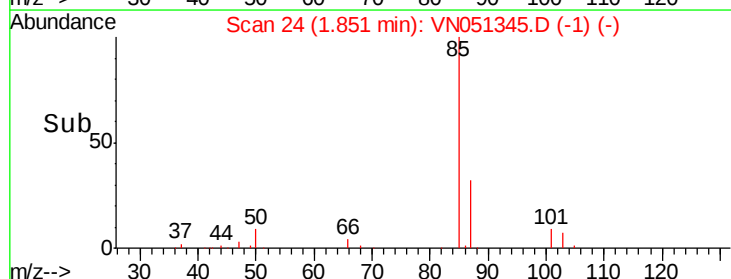
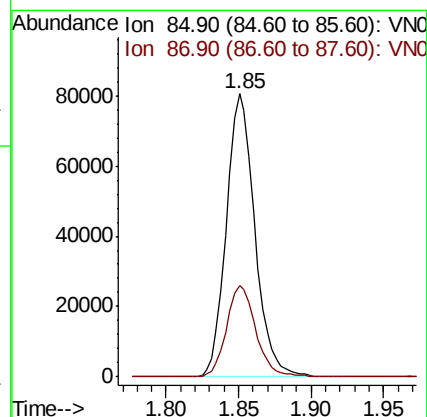
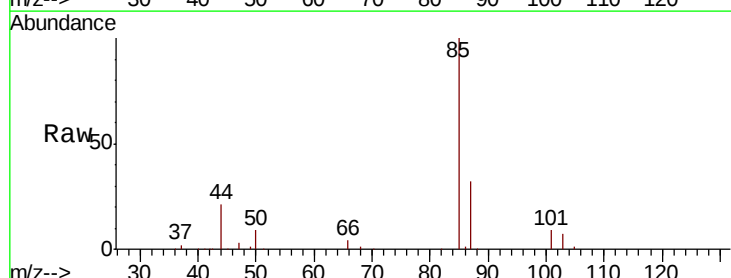
Acq: 20 Sep 2018 17:42

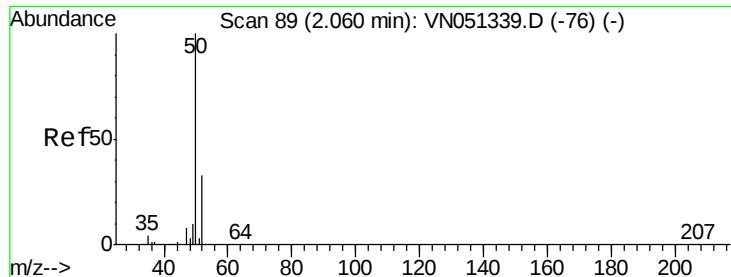
Tgt Ion: 85 Resp: 109623

Ion Ratio Lower Upper

85 100

87 32.4 16.8 50.4





#3

Chloromethane

Concen: 18.285 ug/l

RT: 2.06 min Scan# 88

Delta R.T. -0.00 min

Lab File: VN051345.D

Acq: 20 Sep 2018 17:42

Instrument :

MSVOA_N

ClientSampleId :

VN0920WBSD01

Tot Ion: 50 Resp: 149512

Ion Ratio Lower Upper

50 100

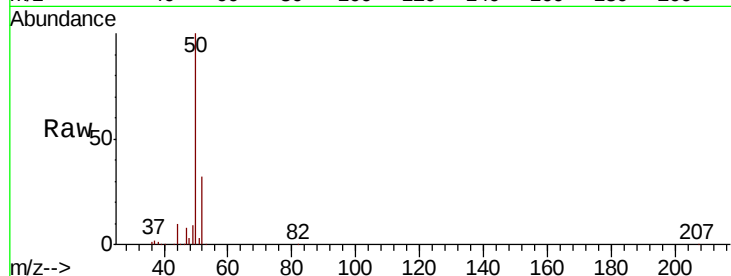
52 32.0 26.7 40.1

Manual Integrations

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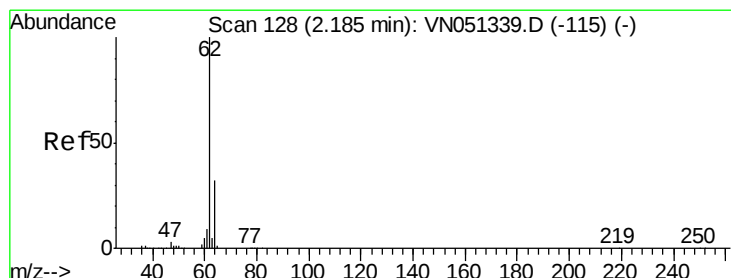
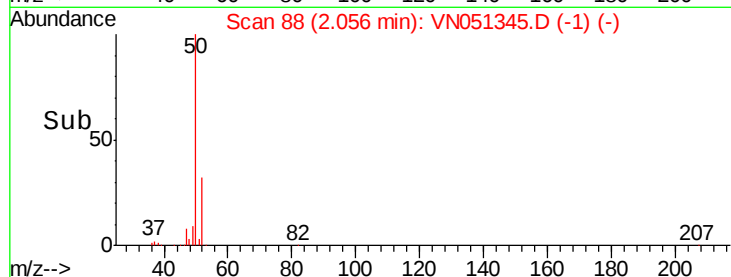
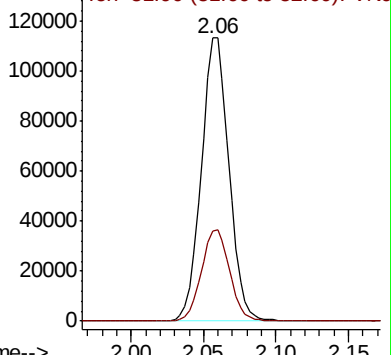
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Abundance Ion 49.90 (49.60 to 50.60): VNC

Ion 51.90 (51.60 to 52.60): VNC



#4

Vinyl Chloride

Concen: 19.474 ug/l

RT: 2.18 min Scan# 128

Delta R.T. -0.00 min

Lab File: VN051345.D

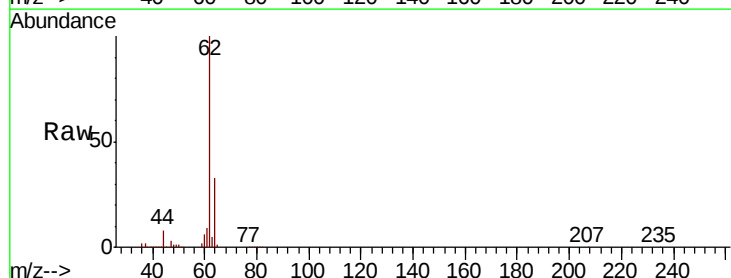
Acq: 20 Sep 2018 17:42

Tgt Ion: 62 Resp: 158209

Ion Ratio Lower Upper

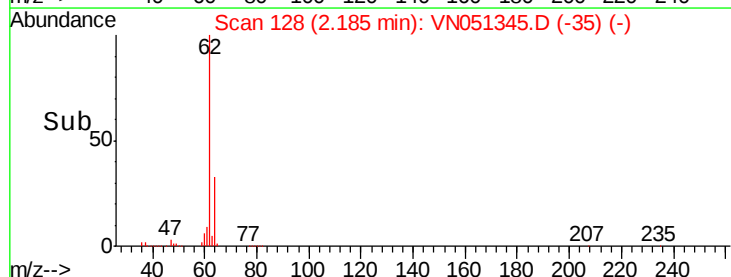
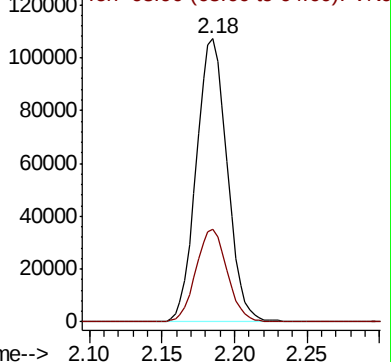
62 100

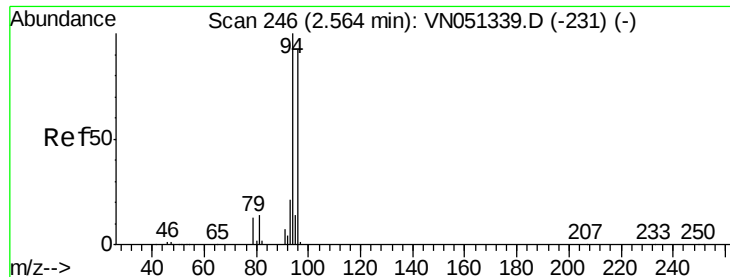
64 32.7 25.9 38.9



Abundance Ion 61.90 (61.60 to 62.60): VNC

Ion 63.90 (63.60 to 64.60): VNC





#5

Bromomethane

Concen: 20.227 ug/l

RT: 2.57 min Scan# 247

Delta R.T. 0.00 min

Lab File: VN051345.D

Acq: 20 Sep 2018 17:42

Instrument :

MSVOA_N

ClientSampled :

VN0920WBSD01

Tot Ion: 94 Resp: 114620

Ion Ratio Lower Upper

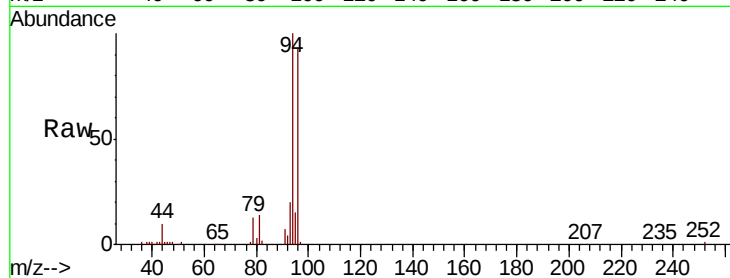
94 100

96 93.3 73.8 110.8

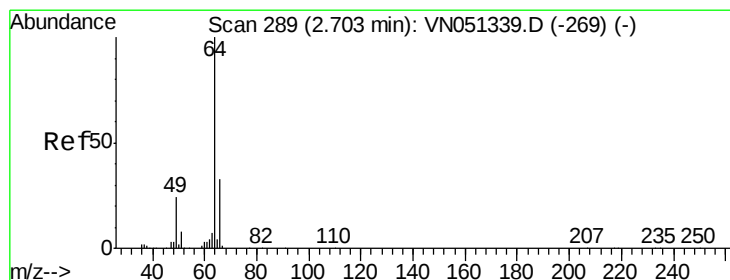
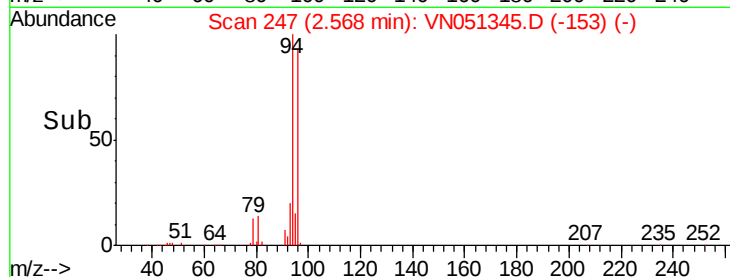
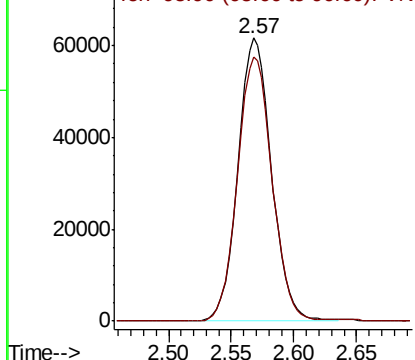
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Abundance Ion 93.90 (93.60 to 94.60): VNO
Ion 95.90 (95.60 to 96.60): VNO



#6

Chloroethane

Concen: 19.628 ug/l

RT: 2.70 min Scan# 289

Delta R.T. -0.00 min

Lab File: VN051345.D

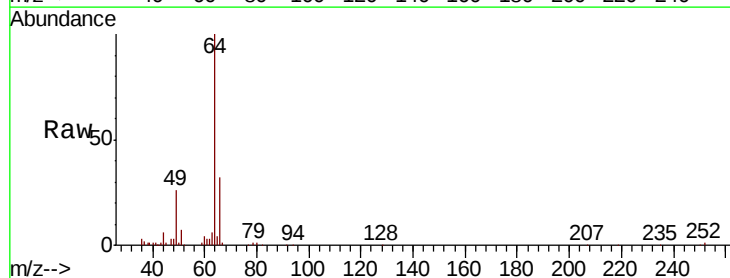
Acq: 20 Sep 2018 17:42

Tgt Ion: 64 Resp: 97994

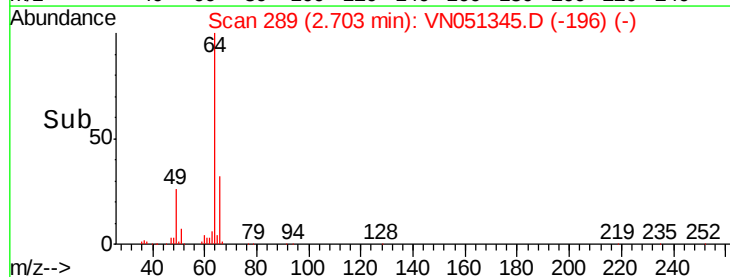
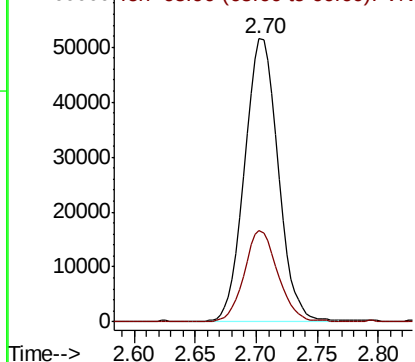
Ion Ratio Lower Upper

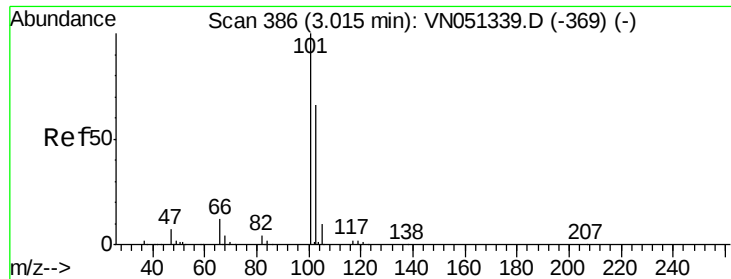
64 100

66 32.2 26.6 39.8



Abundance Ion 63.90 (63.60 to 64.60): VNO
Ion 65.90 (65.60 to 66.60): VNO





#7

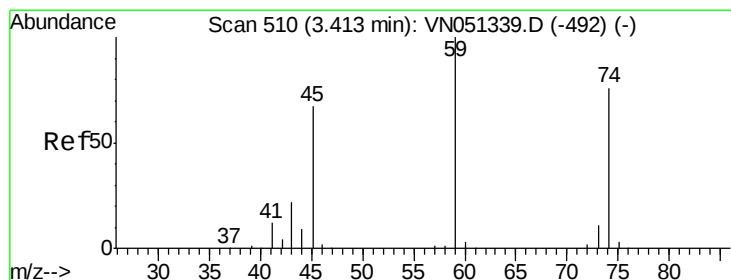
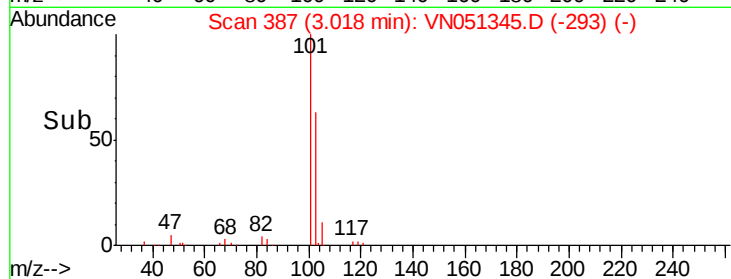
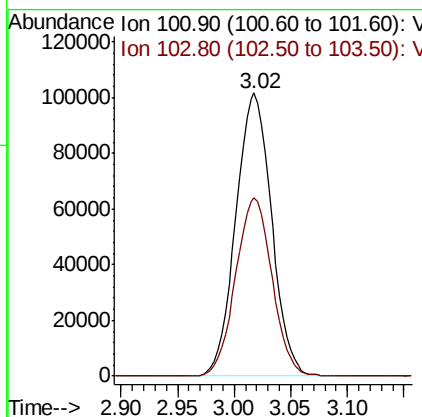
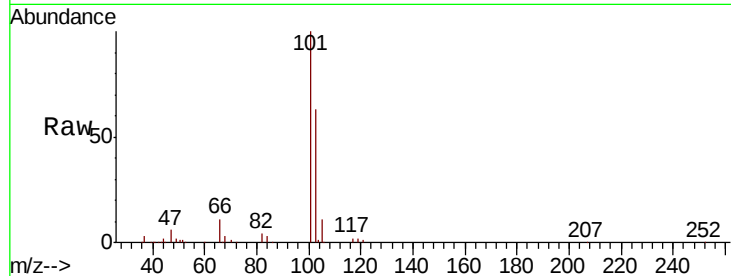
Trichlorofluoromethane
 Concen: 19.291 ug/l
 RT: 3.02 min Scan# 387
 Delta R.T. 0.00 min
 Lab File: VN051345.D
 Acq: 20 Sep 2018 17:42

Instrument :
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 VN0920WBSD01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
101	100		224050		
103	63.0	52.7	79.1		

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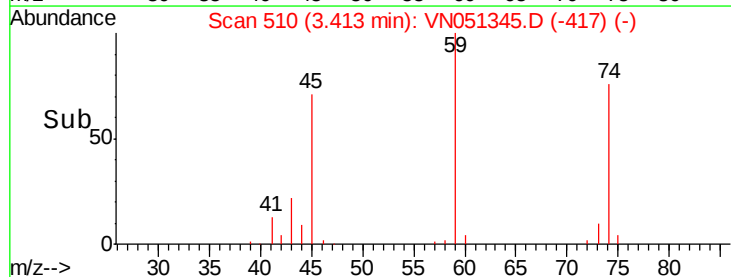
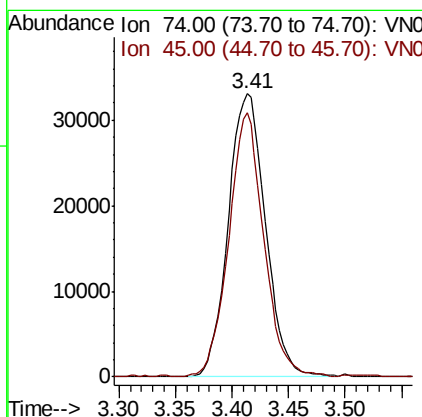
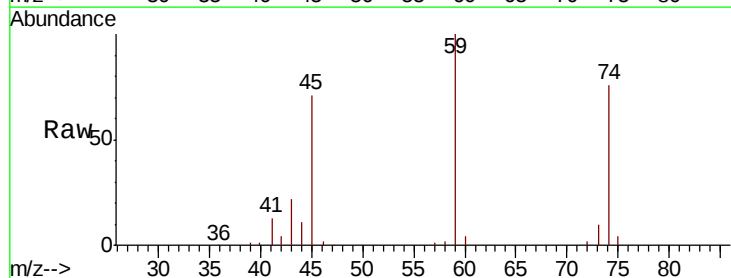
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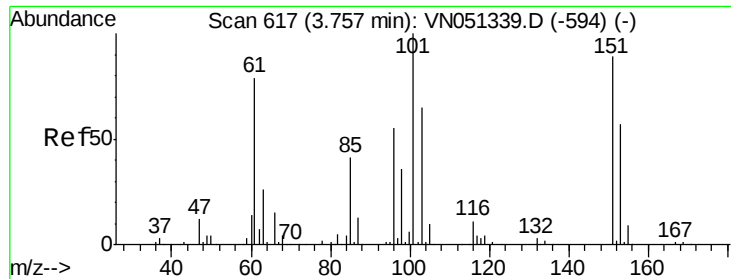


#8

Diethyl Ether
 Concen: 20.403 ug/l
 RT: 3.41 min Scan# 510
 Delta R.T. -0.00 min
 Lab File: VN051345.D
 Acq: 20 Sep 2018 17:42

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
74	100		75819		
45	87.9	44.1	132.4		





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.573 ug/l

RT: 3.76 min Scan# 618

Delta R.T. 0.00 min

Lab File: VN051345.D

Acq: 20 Sep 2018 17:42

Instrument :

MSVOA_N

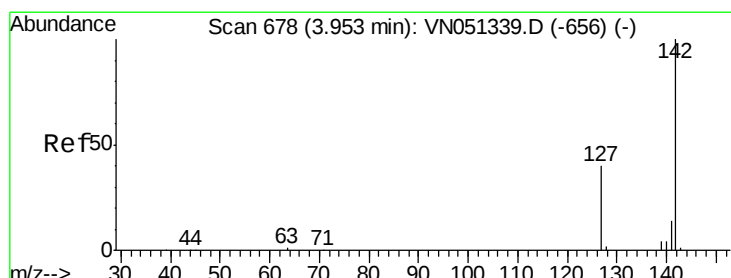
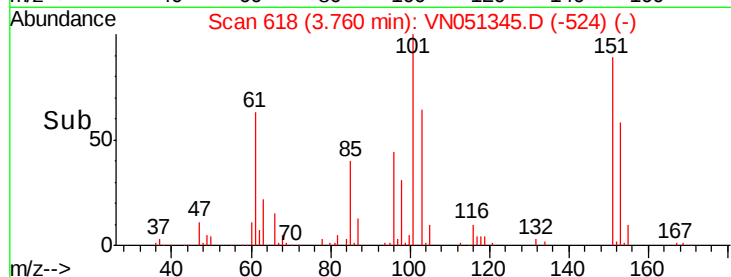
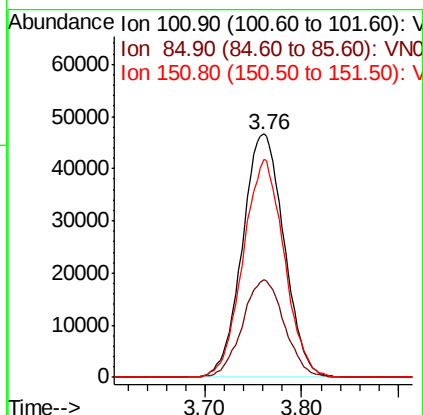
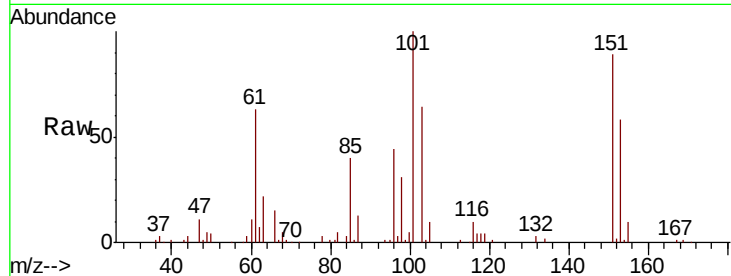
ClientSampleId :

VN0920WBSD01

Tot Ion:	101	Resp:	139487
Ion Ratio	Lower	Upper	
101	100		
85	40.4	33.4	50.2
151	88.4	71.8	107.6

Manual Integrations
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#10

Methyl Iodide

Concen: 19.736 ug/l

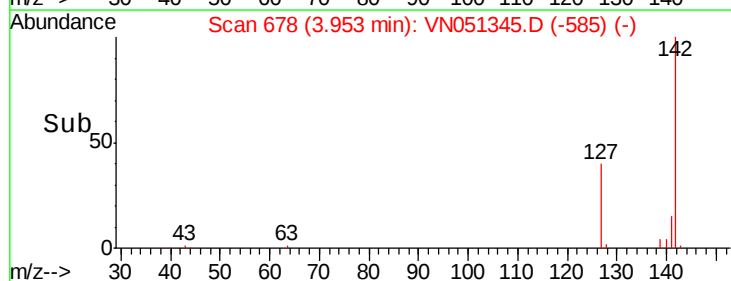
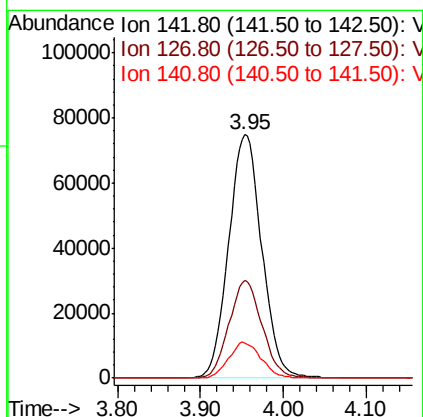
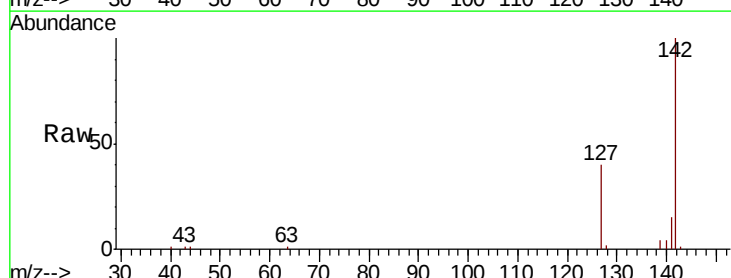
RT: 3.95 min Scan# 678

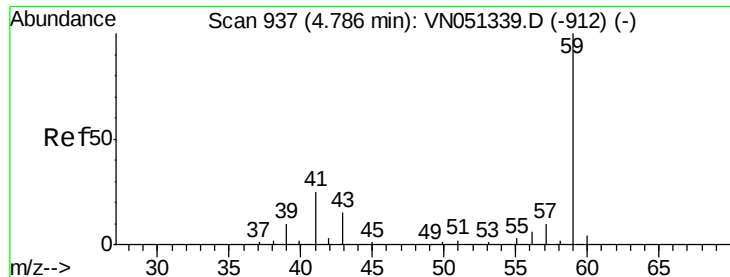
Delta R.T. -0.00 min

Lab File: VN051345.D

Acq: 20 Sep 2018 17:42

Tgt Ion:	142	Resp:	208155
Ion Ratio	Lower	Upper	
142	100		
127	39.8	31.9	47.9
141	14.4	11.4	17.0





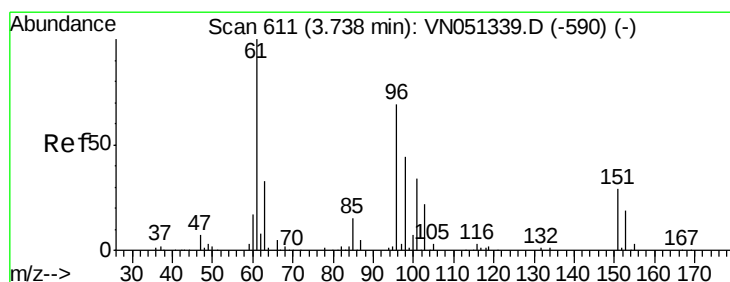
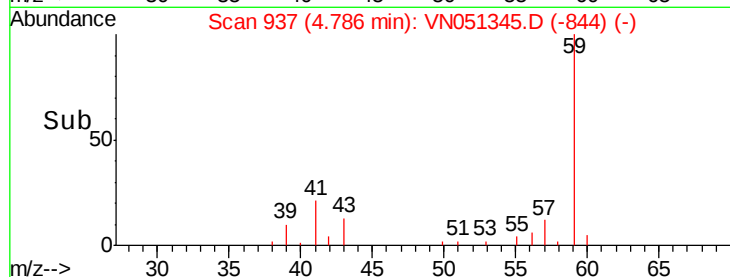
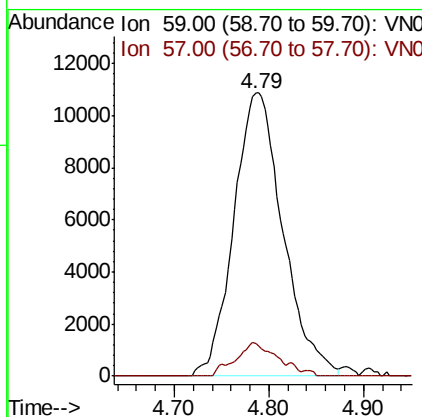
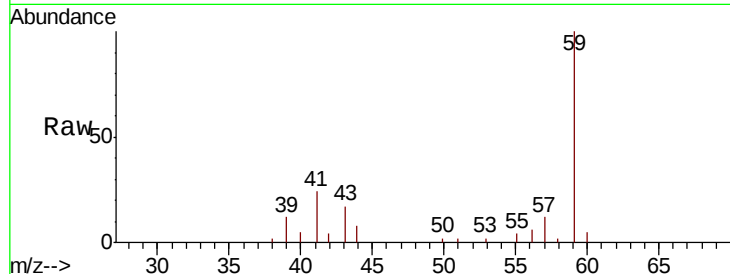
#11
Tert butyl alcohol
Concen: 98.959 ug/l
RT: 4.79 min Scan# 937
Delta R.T. -0.00 min
Lab File: VN051345.D
Acq: 20 Sep 2018 17:42

Instrument :
MSVOA_N
ClientSampleId :
VN0920WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
59	100	39218		
57	9.1		8.3	12.5

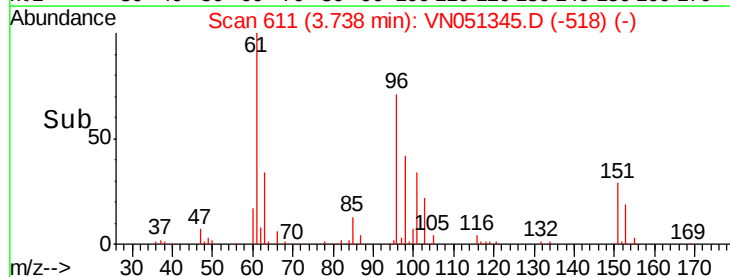
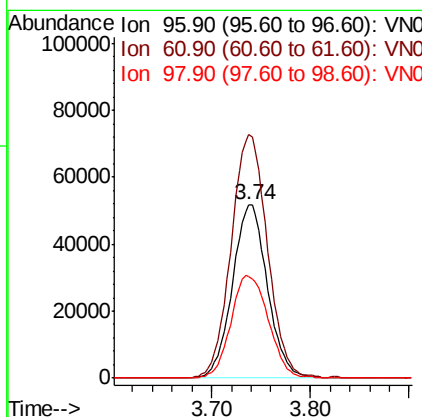
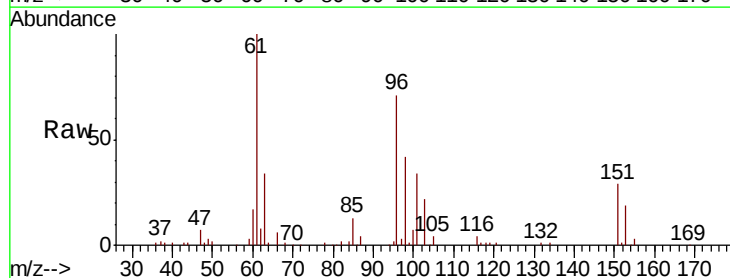
Manual Integrations
APPROVED

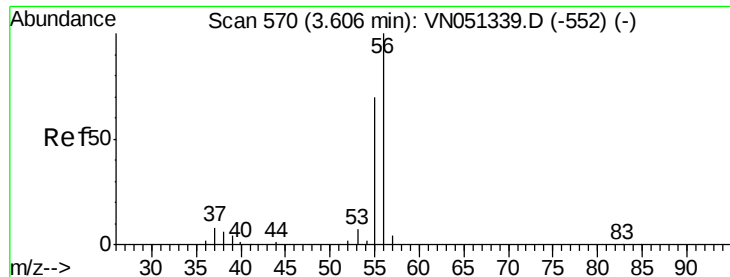
MMDadoda
9/24/2018 2:48:19 PM



#12
1,1-Dichloroethene
Concen: 19.797 ug/l
RT: 3.74 min Scan# 611
Delta R.T. -0.00 min
Lab File: VN051345.D
Acq: 20 Sep 2018 17:42

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	127716		
61	140.5		116.4	174.6
98	58.6		50.9	76.3





#13

Acrolein

Concen: 106.099 ug/l

RT: 3.61 min Scan# 572

Delta R.T. 0.01 min

Lab File: VN051345.D

Acq: 20 Sep 2018 17:42

Instrument :

MSVOA_N

ClientSampleId :

VN0920WBSD01

Tot Ion: 56 Resp: 48125

Ion Ratio Lower Upper

56 100

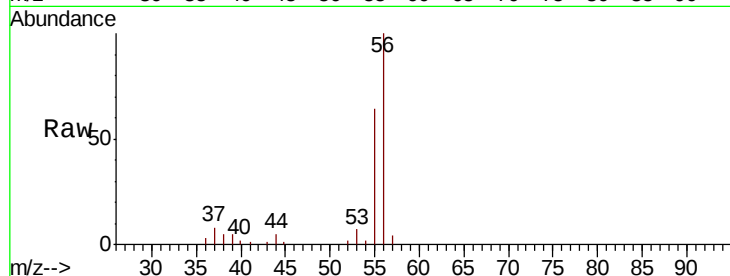
55 69.7 56.5 84.7

Manual Integrations

APPROVED

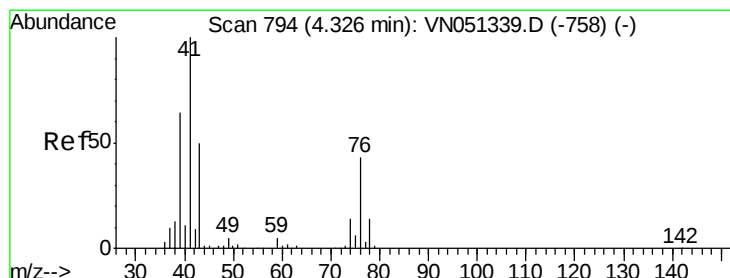
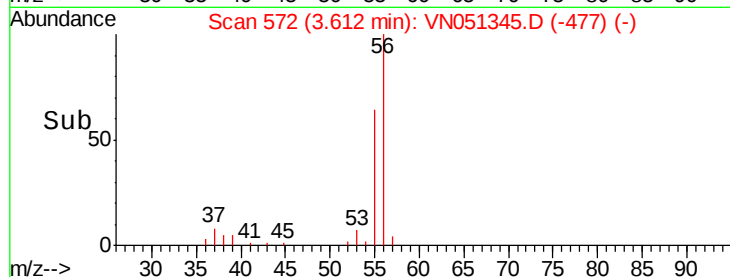
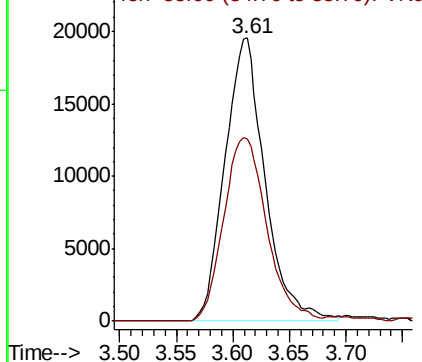
MMDadoda

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Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Allyl chloride

Concen: 19.989 ug/l

RT: 4.33 min Scan# 794

Delta R.T. -0.00 min

Lab File: VN051345.D

Acq: 20 Sep 2018 17:42

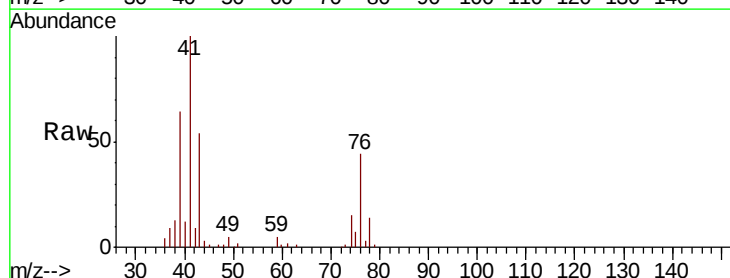
Tgt Ion: 41 Resp: 181762

Ion Ratio Lower Upper

41 100

39 62.1 50.4 75.6

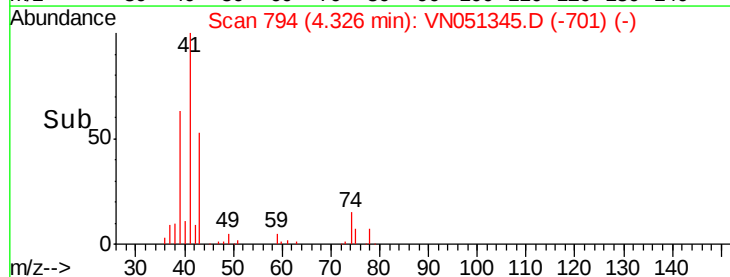
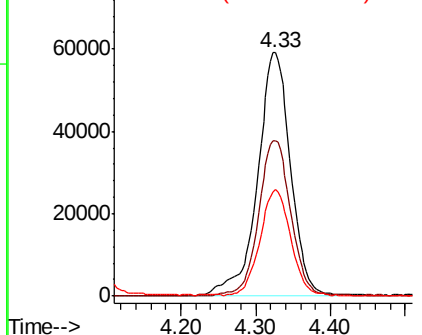
76 40.9 32.4 48.6

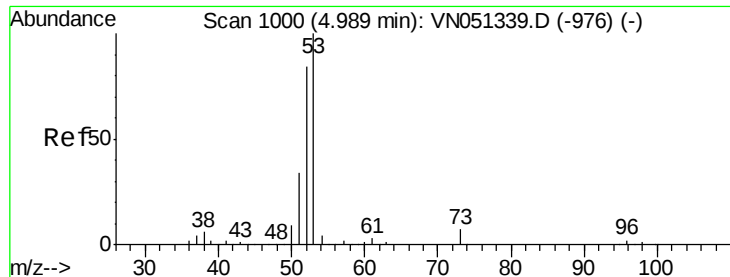


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





#15

Acrylonitrile

Concen: 99.487 ug/l

RT: 4.99 min Scan# 1001

Delta R.T. 0.00 min

Lab File: VN051345.D

Acq: 20 Sep 2018 17:42

Instrument :

MSVOA_N

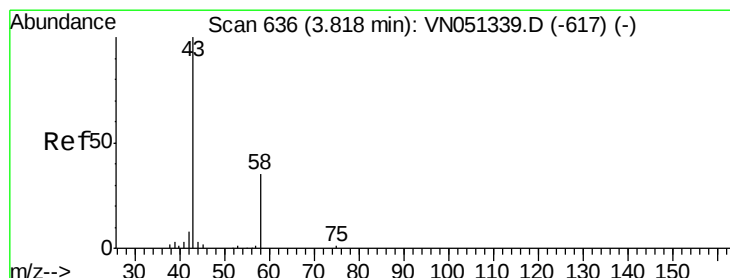
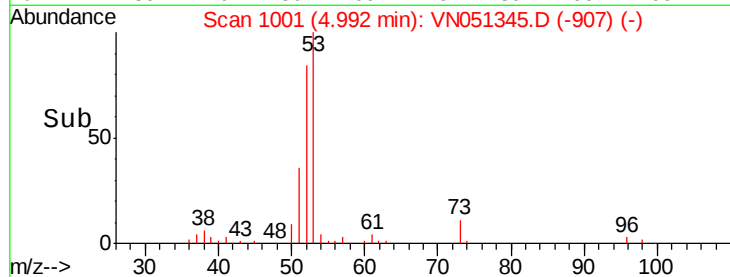
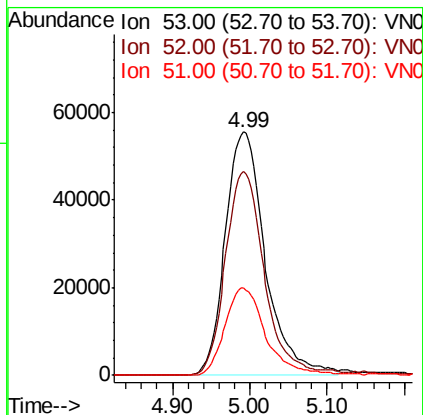
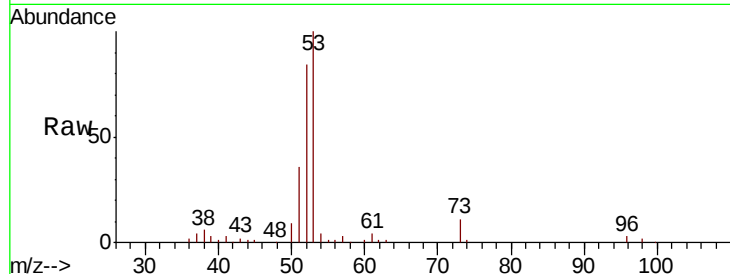
ClientSampled :

VN0920WBSD01

Tot Ion:	53	Resp:	199807
Ion Ratio		Lower	Upper
53	100		
52	81.8	65.4	98.0
51	36.6	28.3	42.5

Manual Integrations
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#16

Acetone

Concen: 87.053 ug/l

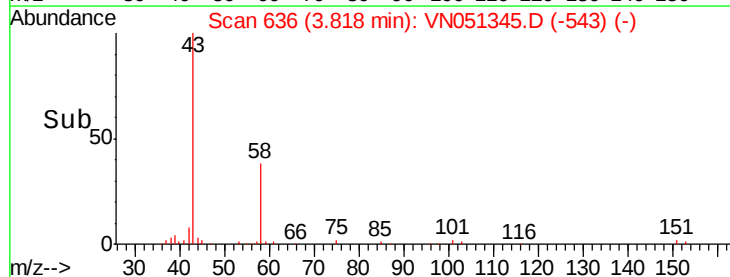
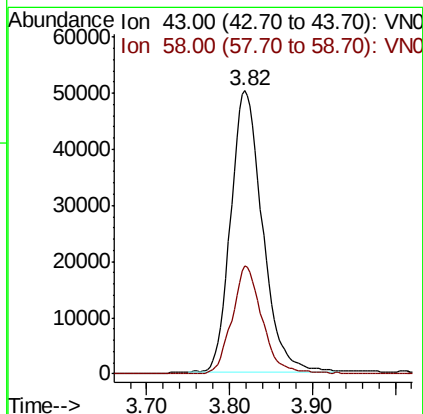
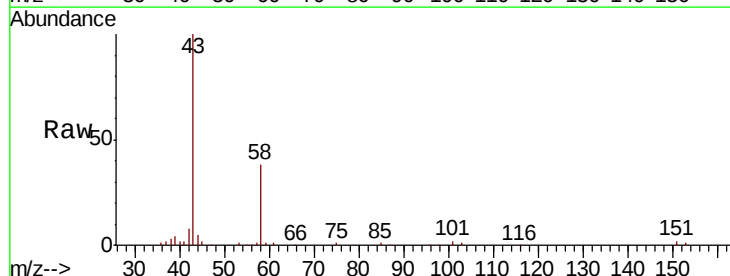
RT: 3.82 min Scan# 636

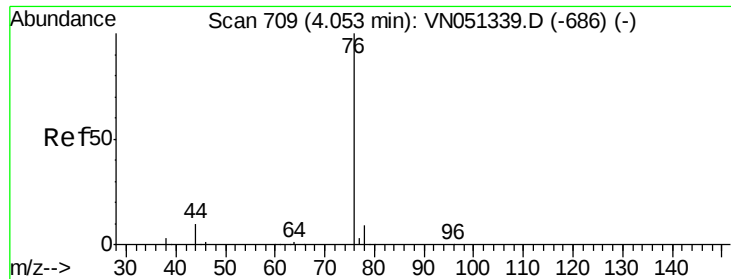
Delta R.T. -0.00 min

Lab File: VN051345.D

Acq: 20 Sep 2018 17:42

Tgt Ion:	43	Resp:	133677
Ion Ratio		Lower	Upper
43	100		
58	38.2	28.3	42.5





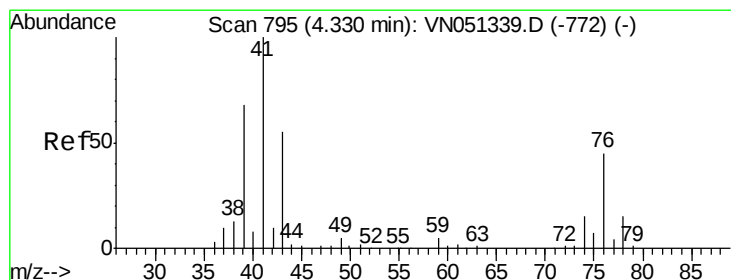
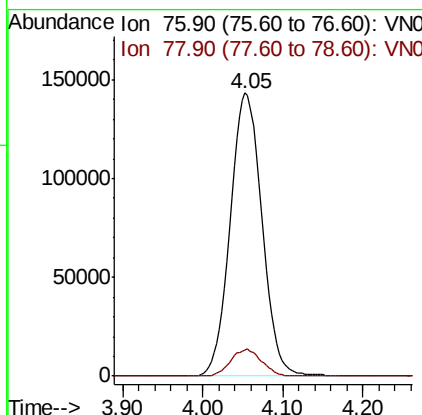
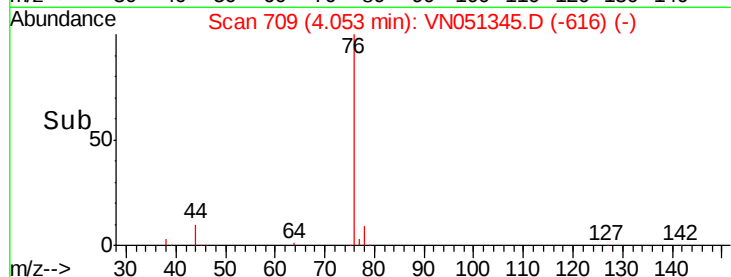
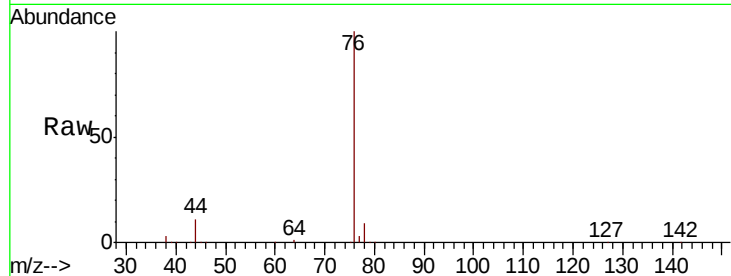
#17
Carbon Disulfide
Concen: 19.810 ug/l
RT: 4.05 min Scan# 709
Delta R.T. -0.00 min
Lab File: VN051345.D
Acq: 20 Sep 2018 17:42

Instrument :
MSVOA_N
ClientSampleId :
VN0920WBSD01

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.4	7.0	10.6

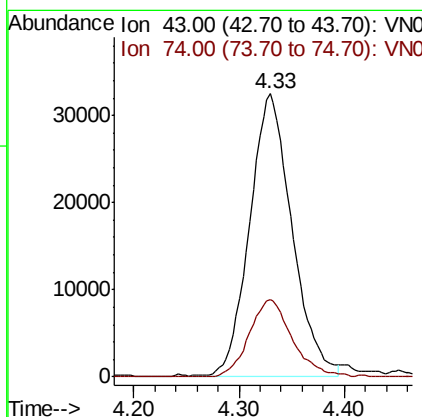
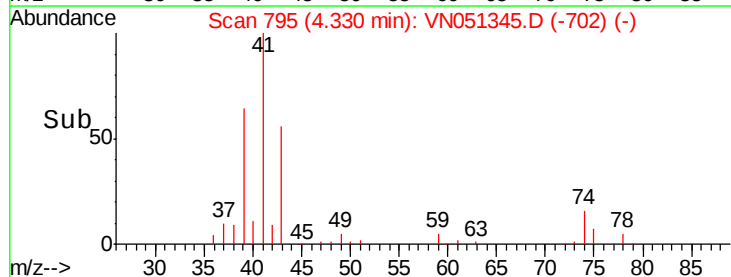
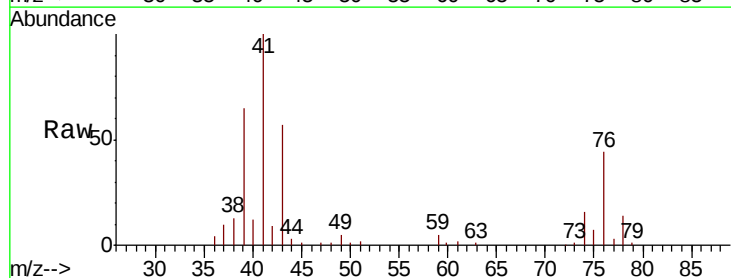
Manual Integrations
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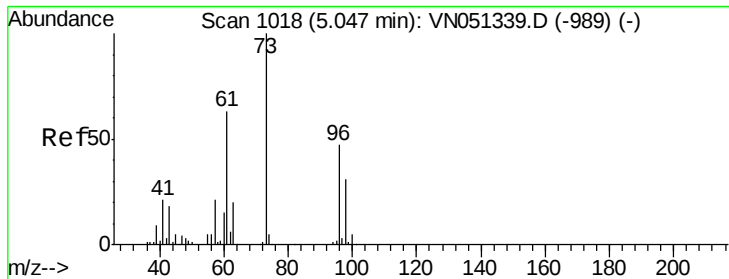
MMDadoda
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#18
Methyl Acetate
Concen: 17.268 ug/l
RT: 4.33 min Scan# 795
Delta R.T. -0.00 min
Lab File: VN051345.D
Acq: 20 Sep 2018 17:42

Tgt Ion	Ratio	Lower	Upper
43	100		
74	27.5	21.7	32.5





#19

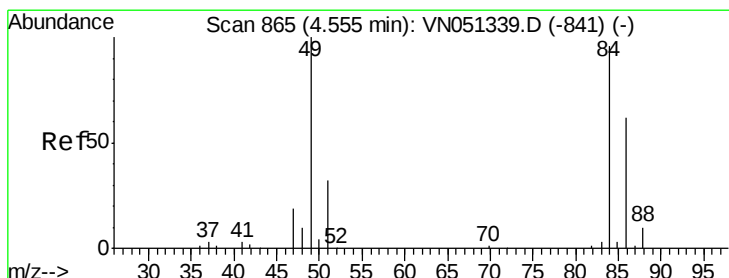
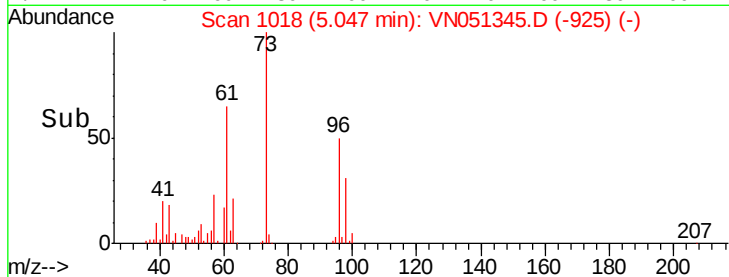
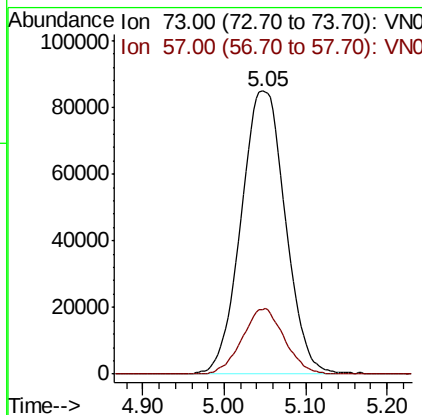
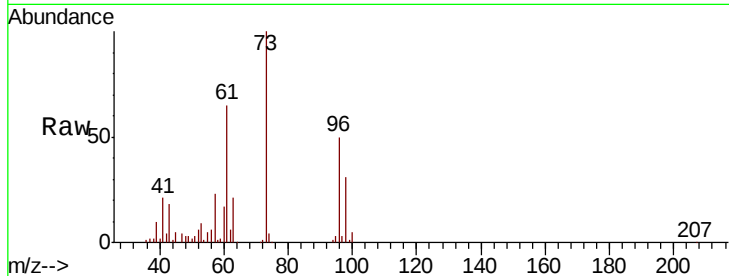
Methyl tert-butyl Ether
 Concen: 20.497 ug/l
 RT: 5.05 min Scan# 1018
 Delta R.T. -0.00 min
 Lab File: VN051345.D
 Acq: 20 Sep 2018 17:42

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0920WBSD01

Tot Ion: 73 Resp: 320033
 Ion Ratio Lower Upper
 73 100
 57 23.0 16.9 25.3

Manual Integrations
 APPROVED

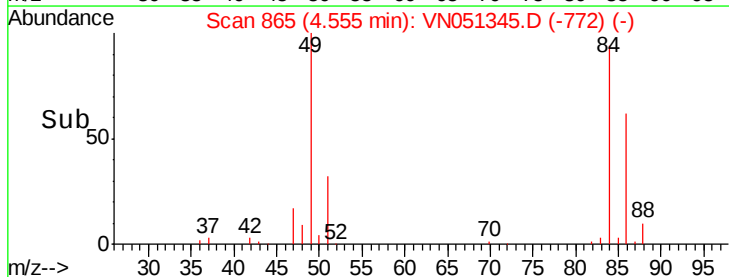
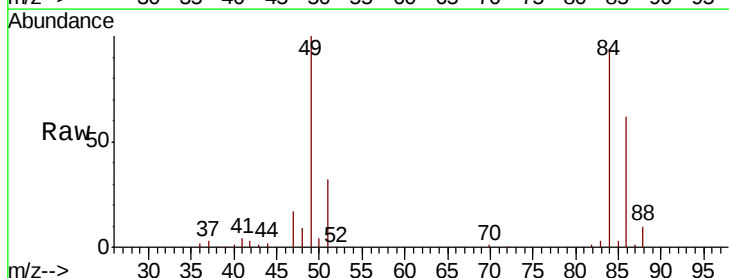
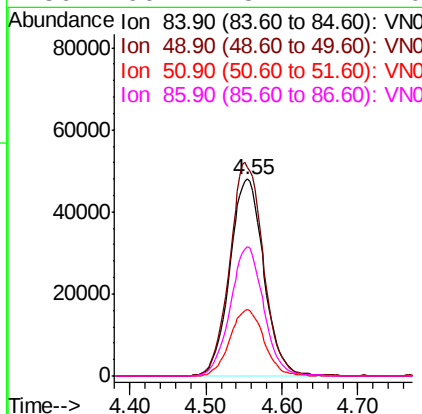
MMDadoda
 9/24/2018 2:48:19 PM

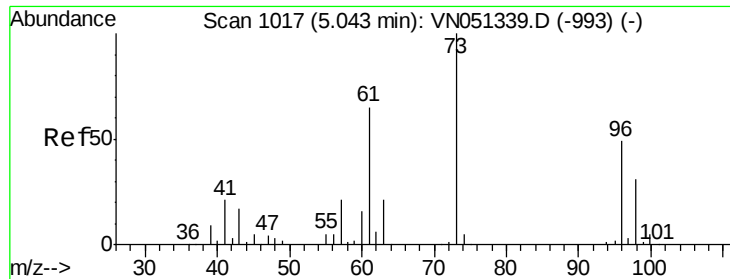


#20

Methylene Chloride
 Concen: 19.433 ug/l
 RT: 4.55 min Scan# 865
 Delta R.T. -0.00 min
 Lab File: VN051345.D
 Acq: 20 Sep 2018 17:42

Tgt Ion: 84 Resp: 149324
 Ion Ratio Lower Upper
 84 100
 49 106.3 83.2 124.8
 51 34.1 26.4 39.6
 86 66.1 51.4 77.0





#21

trans-1,2-Dichloroethene

Concen: 20.390 ug/l

RT: 5.04 min Scan# 1017

Delta R.T. -0.00 min

Lab File: VN051345.D

Acq: 20 Sep 2018 17:42

Instrument :

MSVOA_N

ClientSampleId :

VN0920WBSD01

Tot Ion: 96 Resp: 138932

Ion Ratio Lower Upper

96 100

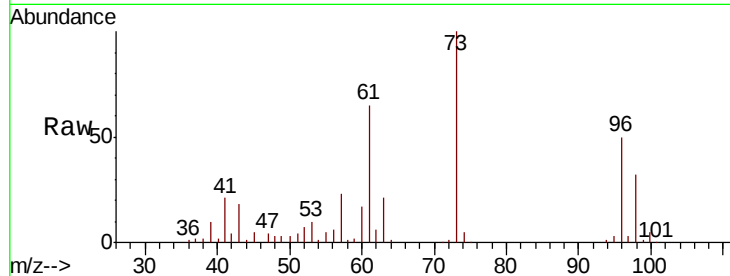
61 129.7 106.2 159.4

98 62.8 51.0 76.6

Manual Integrations
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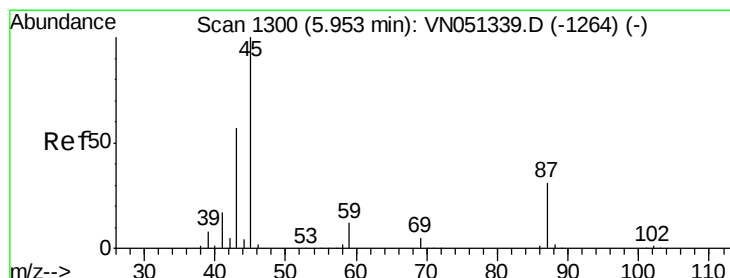
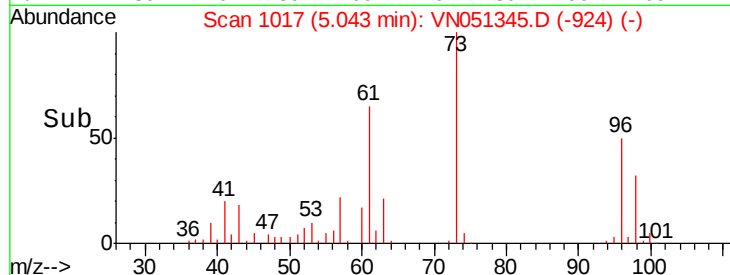
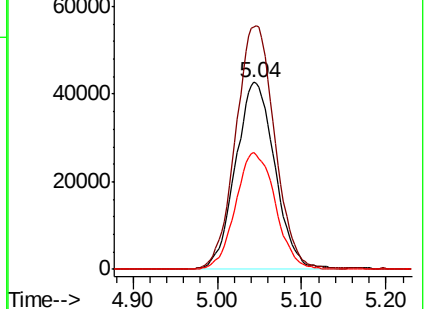
9/24/2018 2:48:19 PM



Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#22

Diisopropyl ether

Concen: 21.409 ug/l

RT: 5.95 min Scan# 1300

Delta R.T. -0.00 min

Lab File: VN051345.D

Acq: 20 Sep 2018 17:42

Tgt Ion: 45 Resp: 384546

Ion Ratio Lower Upper

45 100

43 61.6 46.1 69.1

87 33.1 25.6 38.4

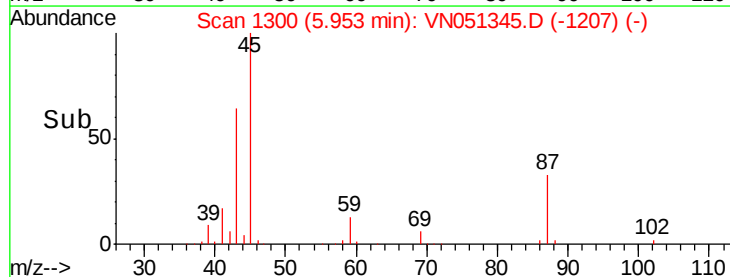
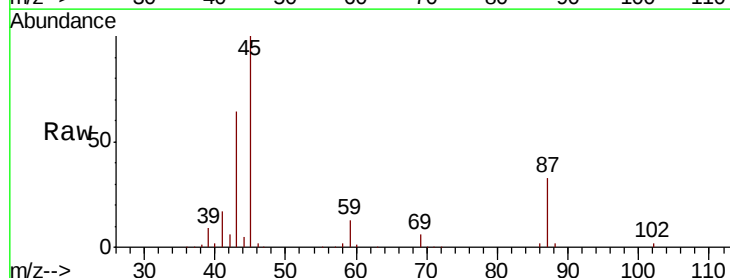
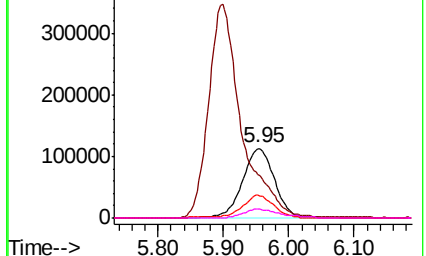
59 12.7 9.9 14.9

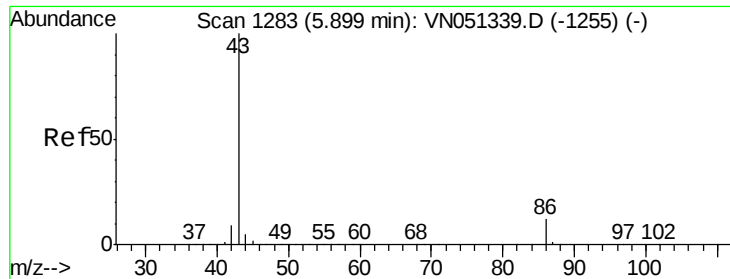
Abundance Ion 45.00 (44.70 to 45.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

Ion 59.00 (58.70 to 59.70): VN0





#23

Vinyl Acetate

Concen: 104.841 ug/l

RT: 5.90 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VN051345.D

Acq: 20 Sep 2018 17:42

Instrument :

MSVOA_N

ClientSampleID :

VN0920WBSD01

Tot Ion: 43 Resp: 1218059

Ion Ratio Lower Upper

43 100

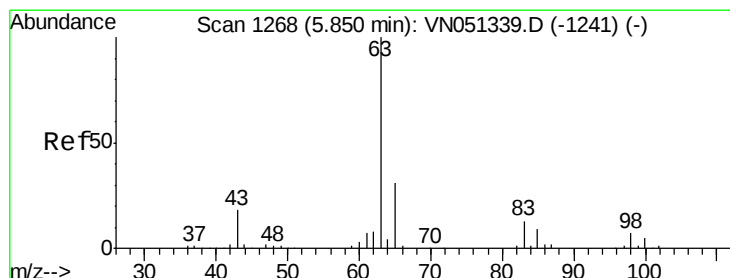
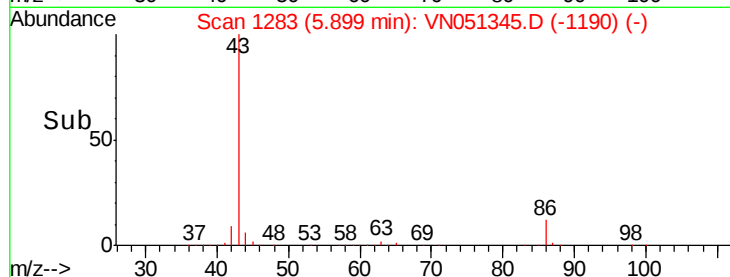
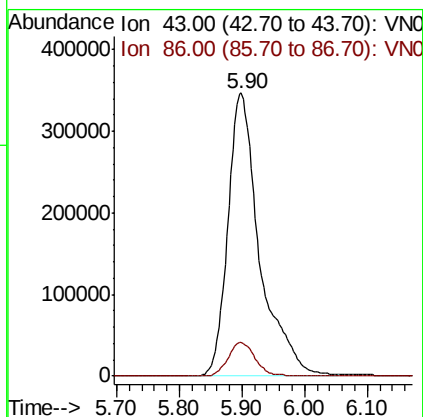
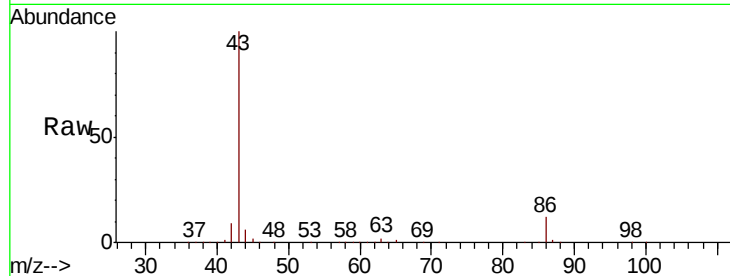
86 11.8 9.8 14.6

Manual Integrations

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#24

1,1-Dichloroethane

Concen: 19.867 ug/l

RT: 5.85 min Scan# 1268

Delta R.T. -0.00 min

Lab File: VN051345.D

Acq: 20 Sep 2018 17:42

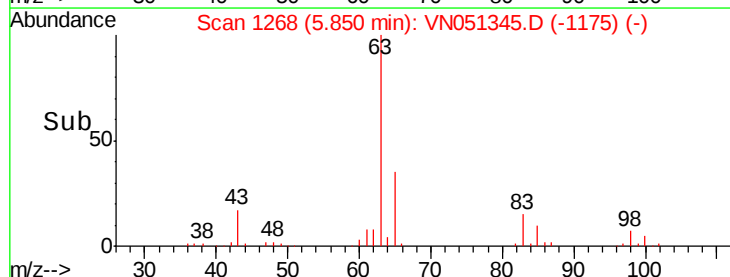
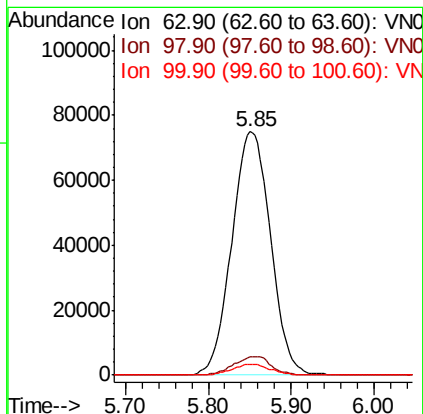
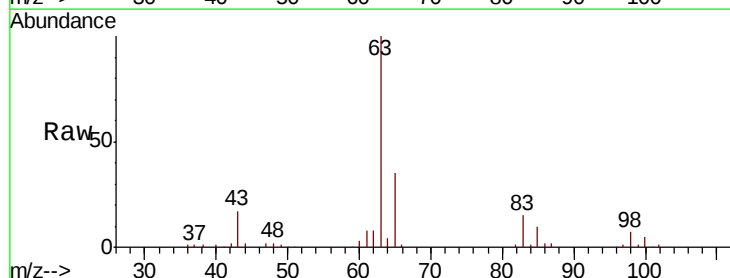
Tgt Ion: 63 Resp: 243244

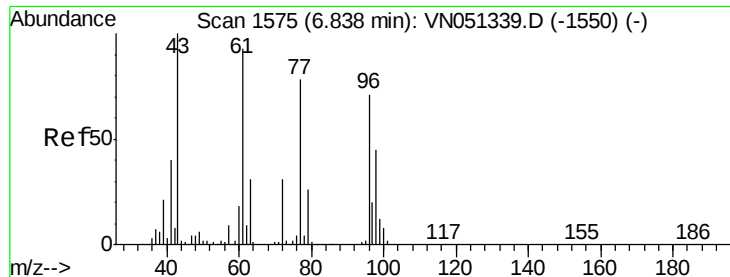
Ion Ratio Lower Upper

63 100

98 7.5 3.4 10.2

100 4.6 2.3 6.9





#25

2-Butanone

Concen: 97.098 ug/l

RT: 6.84 min Scan# 1576

Delta R.T. 0.00 min

Lab File: VN051345.D

Acq: 20 Sep 2018 17:42

Instrument :

MSVOA_N

ClientSampleId :

VN0920WBSD01

Tot Ion: 43 Resp: 207381

Ion Ratio Lower Upper

43 100

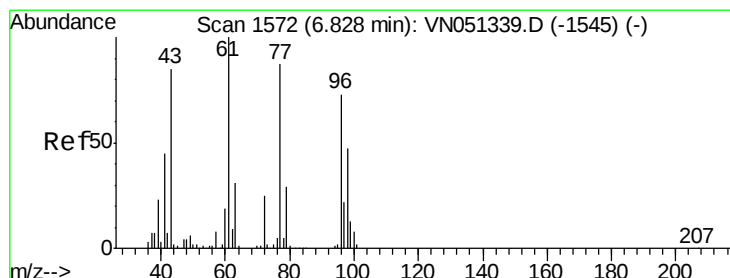
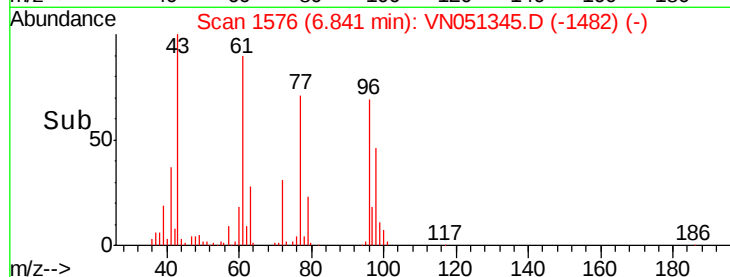
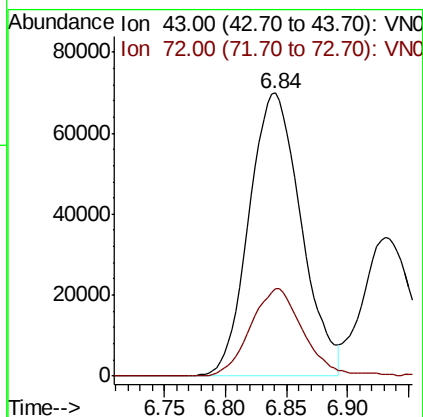
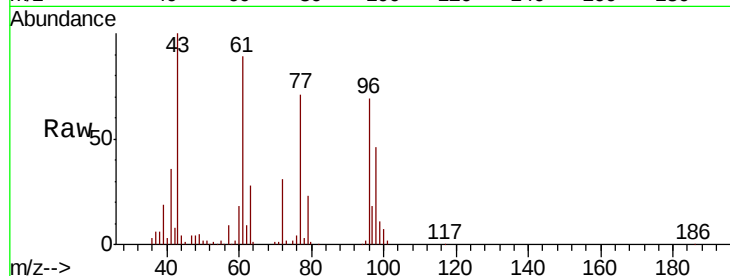
72 31.0 24.7 37.1

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 19.369 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. -0.00 min

Lab File: VN051345.D

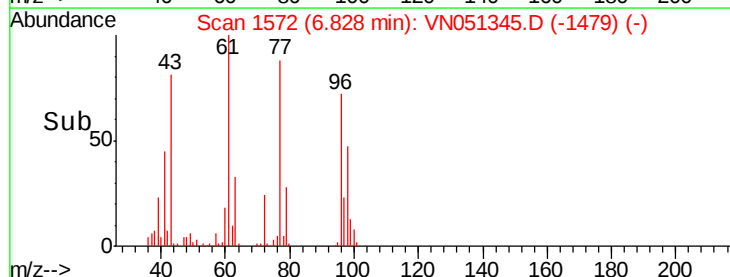
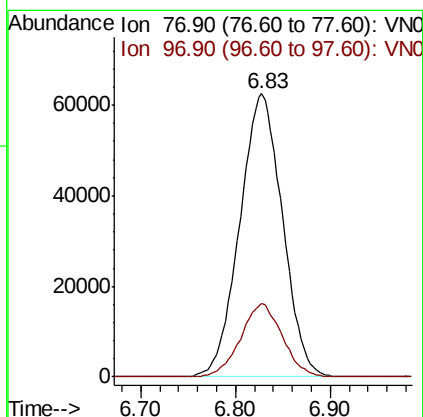
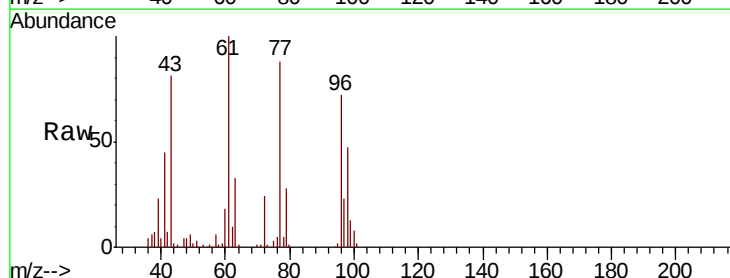
Acq: 20 Sep 2018 17:42

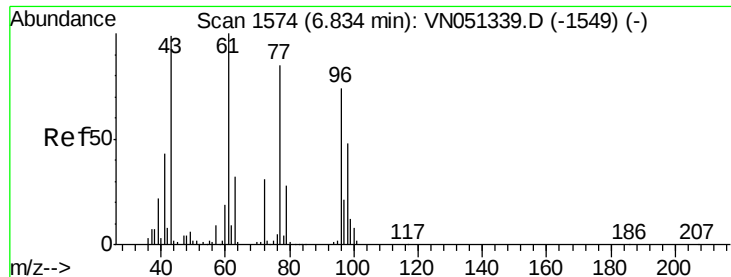
Tgt Ion: 77 Resp: 195960

Ion Ratio Lower Upper

77 100

97 25.3 12.2 36.6





#27

cis-1,2-Dichloroethene

Concen: 20.350 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. -0.00 min

Lab File: VN051345.D

Acq: 20 Sep 2018 17:42

Instrument :

MSVOA_N

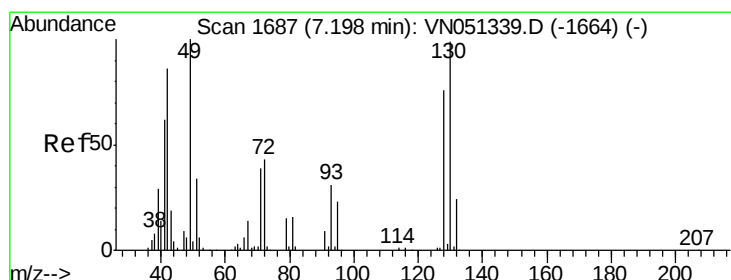
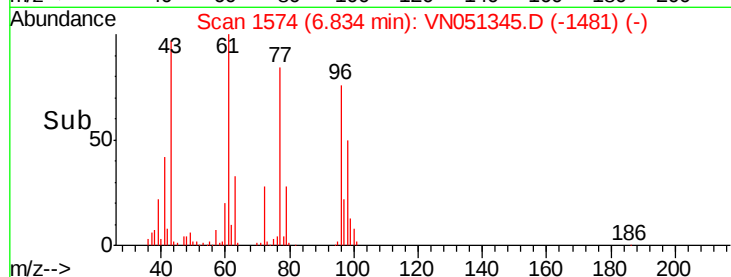
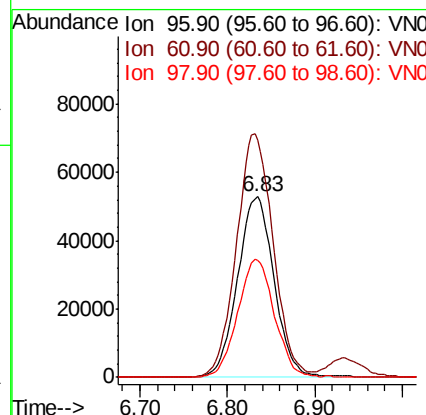
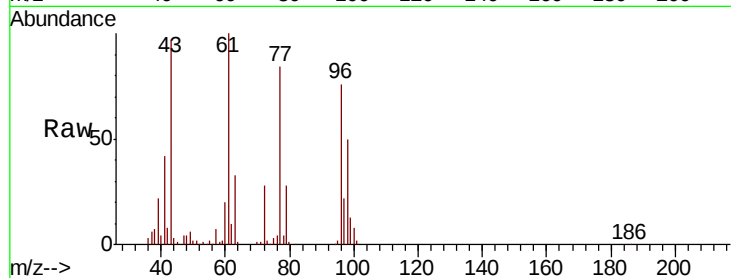
ClientSampleId :

VN0920WBSD01

Tot Ion:	96	Resp:	153650
Ion Ratio	Lower	Upper	
96	100		
61	135.2	0.0	271.2
98	65.4	0.0	131.2

Manual Integrations
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#28

Bromochloromethane

Concen: 20.133 ug/l

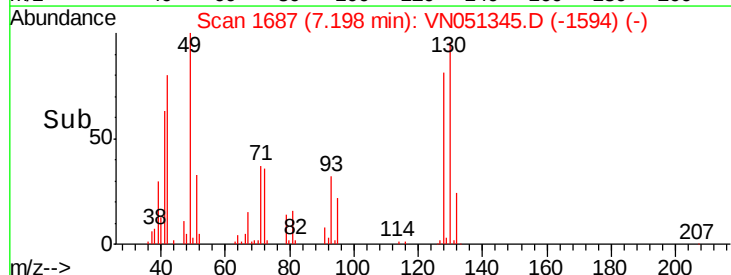
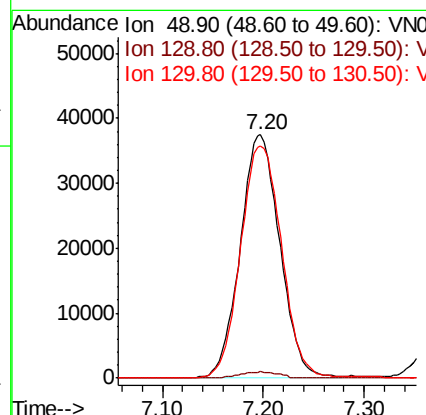
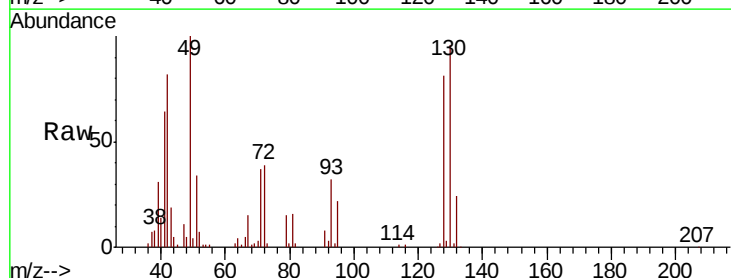
RT: 7.20 min Scan# 1687

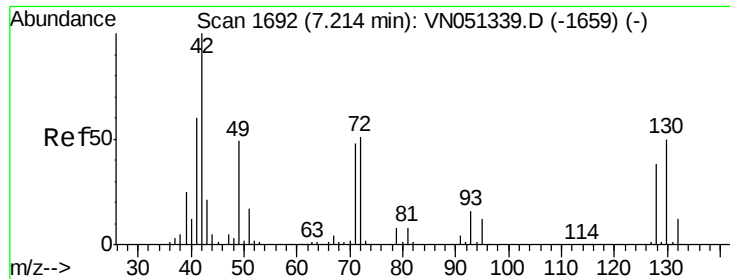
Delta R.T. -0.00 min

Lab File: VN051345.D

Acq: 20 Sep 2018 17:42

Tgt Ion:	49	Resp:	102167
Ion Ratio	Lower	Upper	
49	100		
129	2.5	0.0	4.0
130	98.8	77.4	116.2





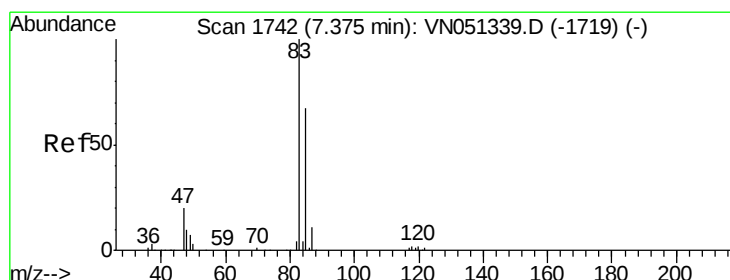
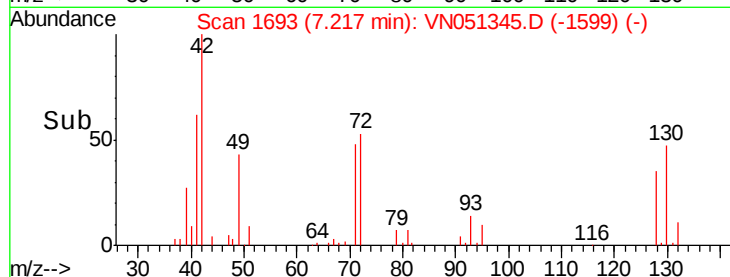
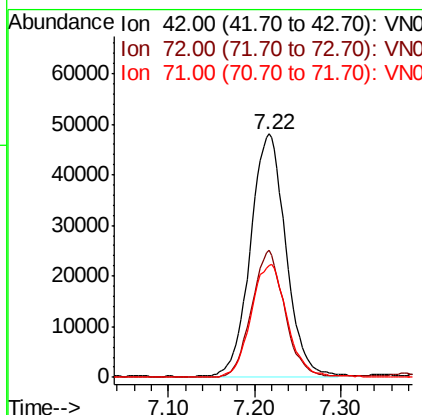
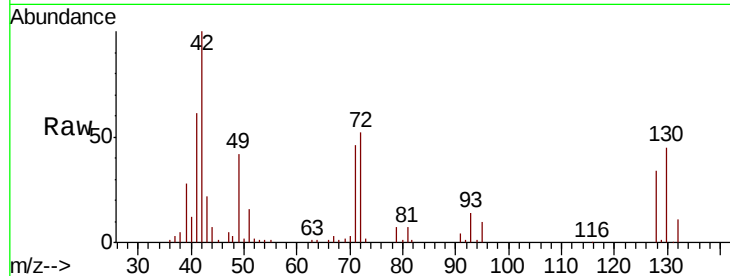
#29
Tetrahydrofuran
Concen: 102.665 ug/l
RT: 7.22 min Scan# 1693
Delta R.T. 0.00 min
Lab File: VN051345.D
Acq: 20 Sep 2018 17:42

Instrument :
MSVOA_N
ClientSampleId :
VN0920WBSD01

Tot Ion	Ratio	Lower	Upper
42	100		
72	48.3	39.0	58.4
71	46.8	36.5	54.7

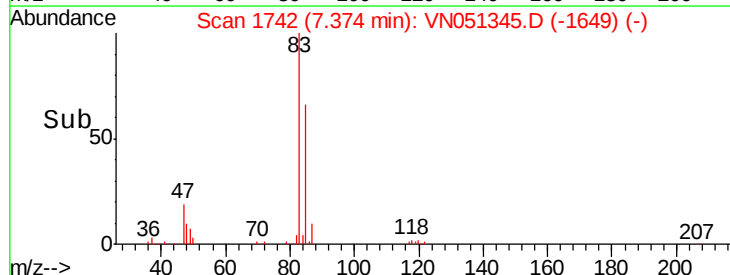
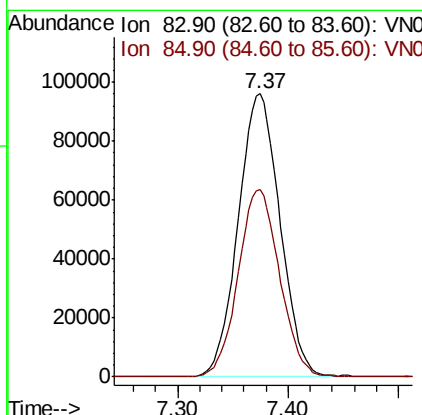
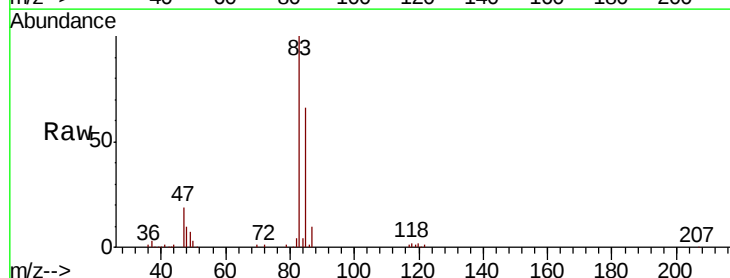
Manual Integrations
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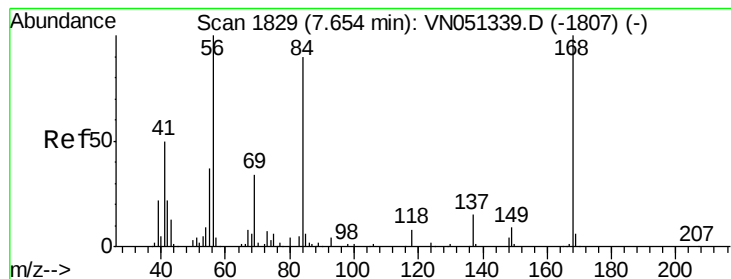
MMDadoda
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#30
Chloroform
Concen: 19.617 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. -0.00 min
Lab File: VN051345.D
Acq: 20 Sep 2018 17:42

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.9	53.2	79.8





#31

Cyclohexane

Concen: 18.154 ug/l

RT: 7.66 min Scan# 1830

Delta R.T. 0.00 min

Lab File: VN051345.D

Acq: 20 Sep 2018 17:42

Instrument :

MSVOA_N

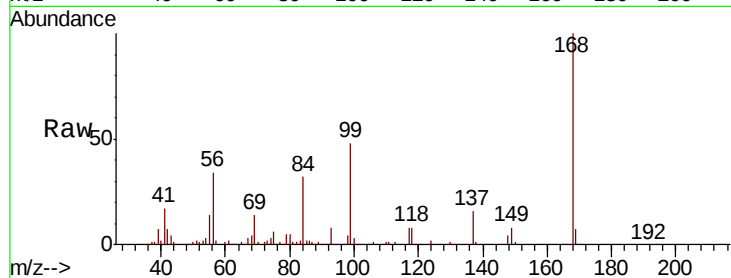
ClientSampleId :

VN0920WBSD01

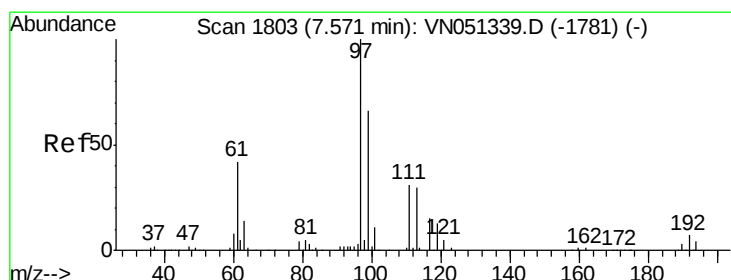
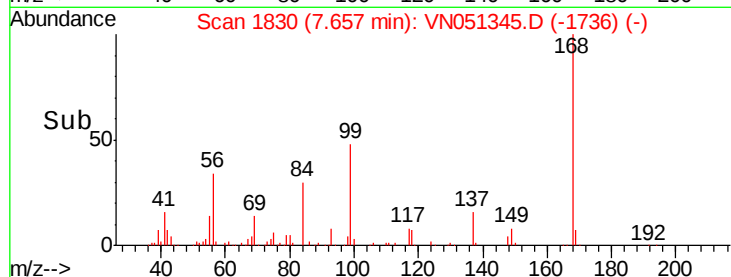
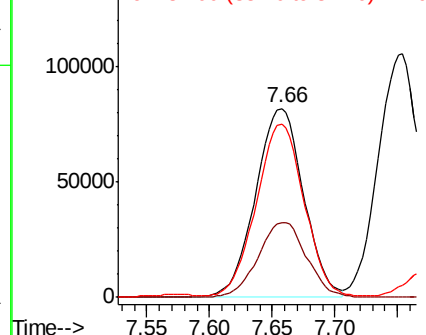
Tot Ion:	56	Resp:	218699
Ion Ratio	Lower	Upper	
56	100		
69	39.5	27.3	40.9
84	90.5	72.2	108.2

Manual Integrations
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Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0



#32

1,1,1-Trichloroethane

Concen: 19.965 ug/l

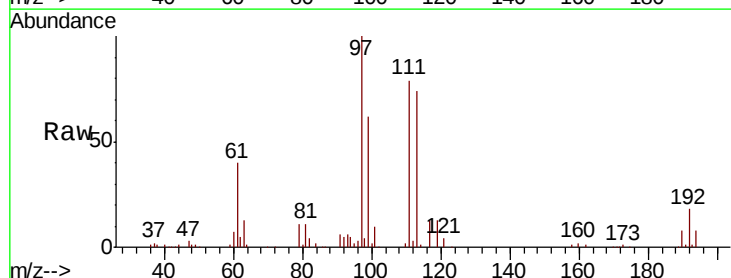
RT: 7.57 min Scan# 1803

Delta R.T. -0.00 min

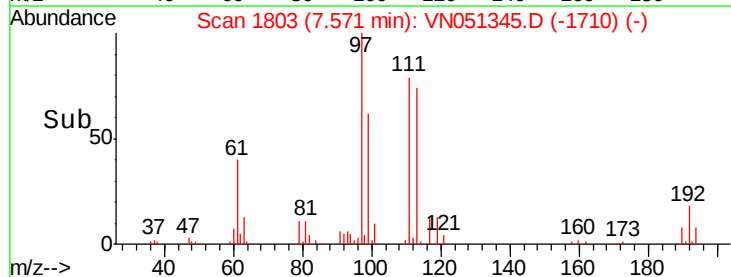
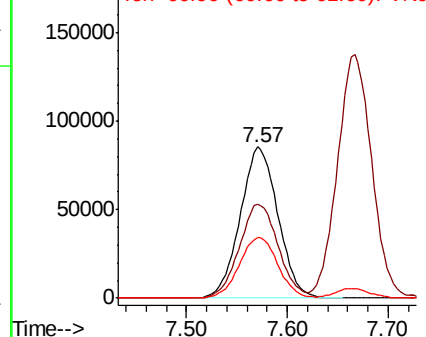
Lab File: VN051345.D

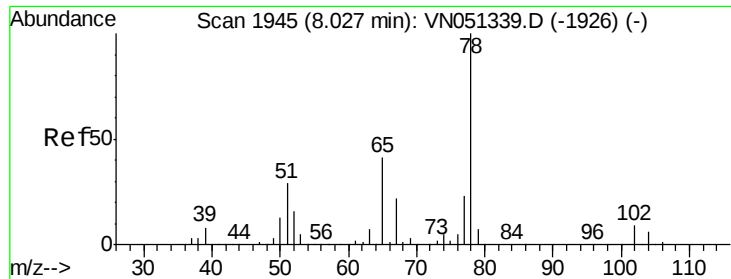
Acq: 20 Sep 2018 17:42

Tgt Ion:	97	Resp:	221340
Ion Ratio	Lower	Upper	
97	100		
99	63.8	51.1	76.7
61	41.0	33.2	49.8



Abundance Ion 96.90 (96.60 to 97.60): VN0
Ion 98.90 (98.60 to 99.60): VN0
Ion 60.90 (60.60 to 61.60): VN0





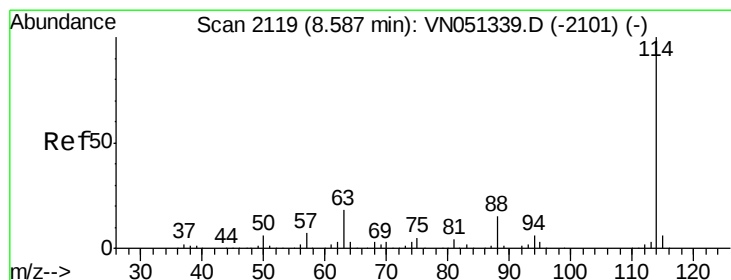
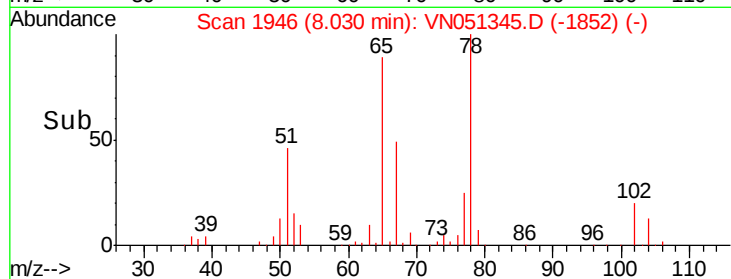
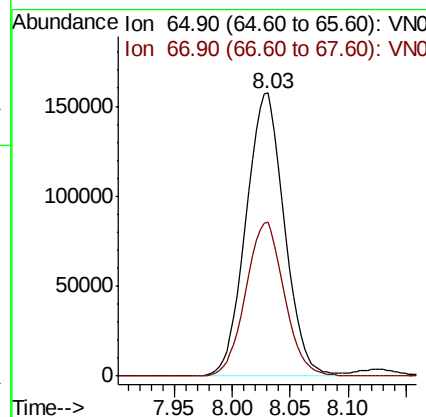
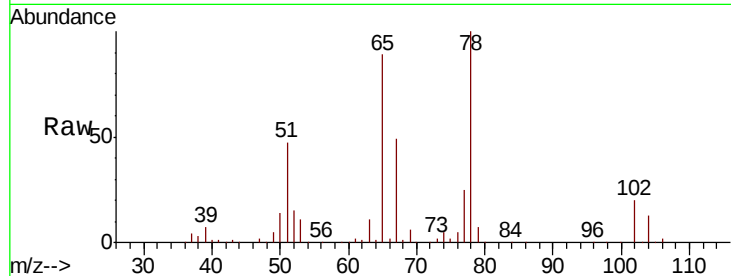
#33
 1,2-Dichloroethane-d4
 Concen: 48.683 ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN051345.D
 Acq: 20 Sep 2018 17:42

Instrument :
 MSVOA_N
 ClientSampled :
 VN0920WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	54.6	0.0	108.8	

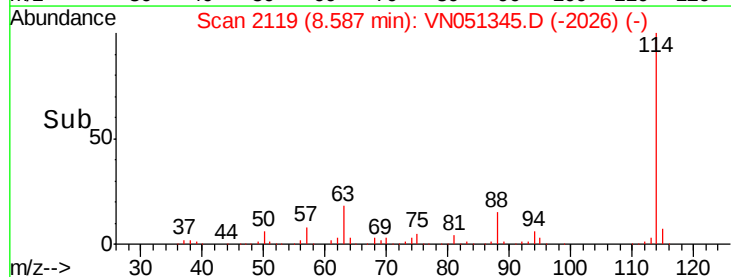
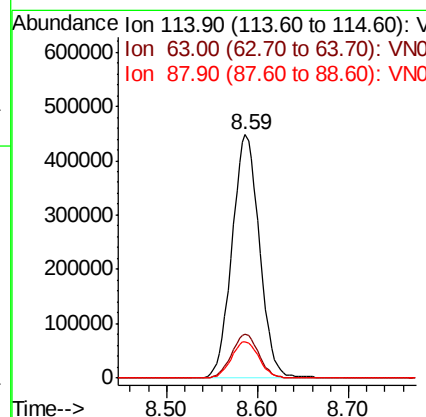
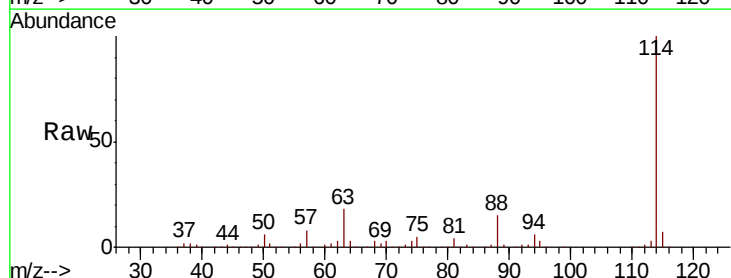
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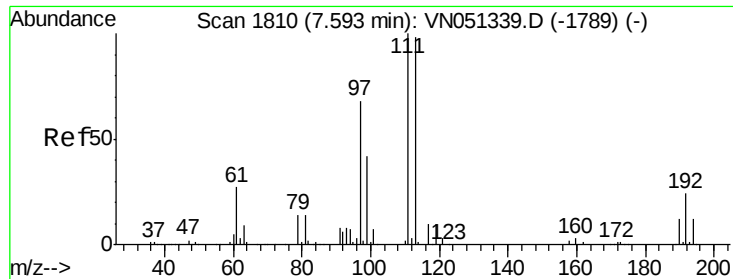
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN051345.D
 Acq: 20 Sep 2018 17:42

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	18.1	0.0	36.6	
88	15.1	0.0	29.8	





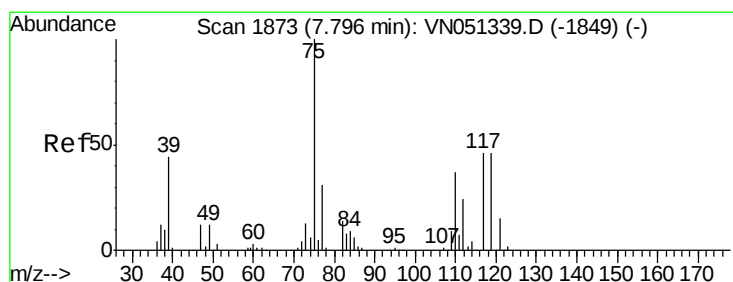
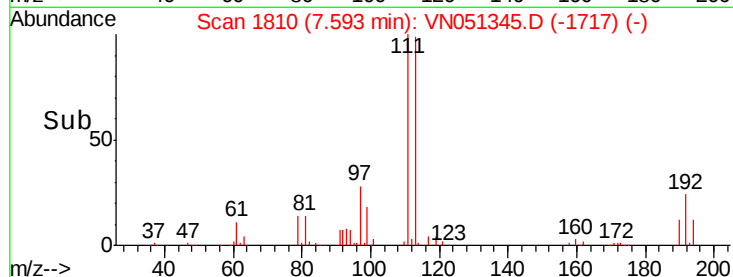
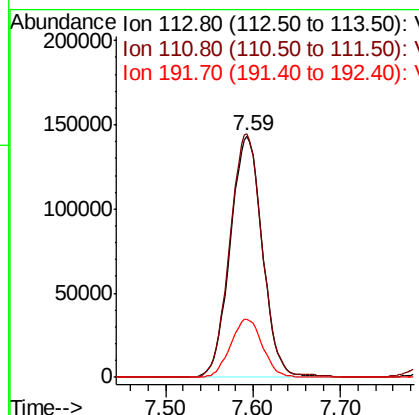
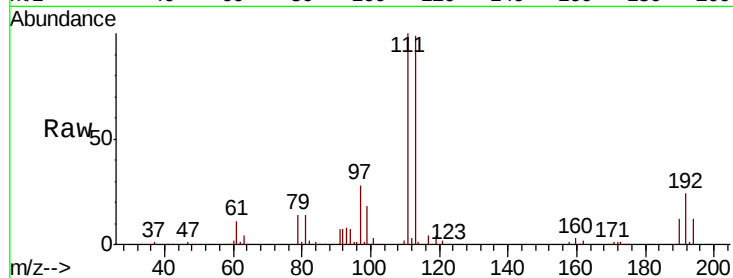
#35
 Dibromofluoromethane
 Concen: 48.200 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. -0.00 min
 Lab File: VN051345.D
 Acq: 20 Sep 2018 17:42

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0920WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	101.4	81.9	122.9	
192	24.0	19.8	29.6	

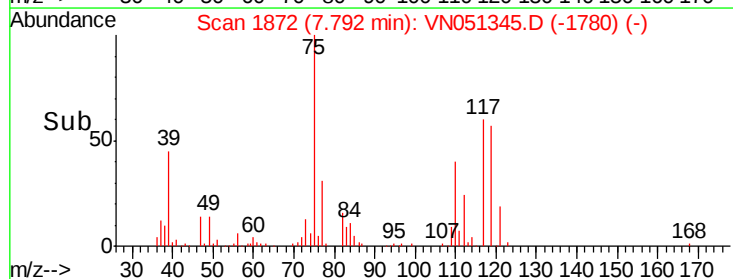
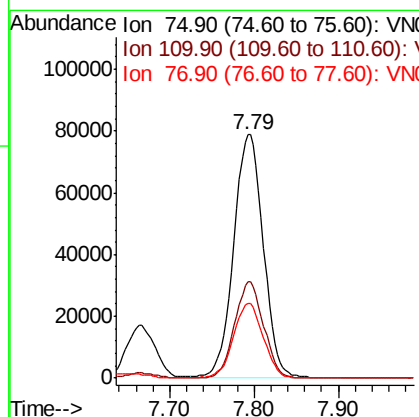
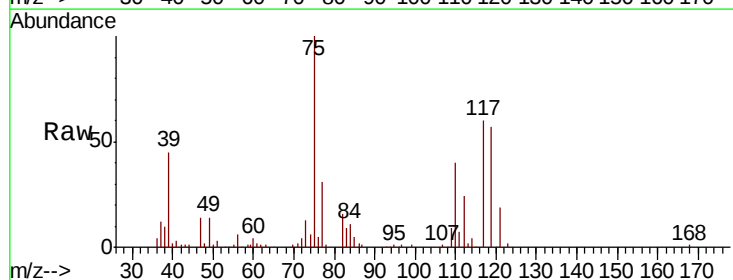
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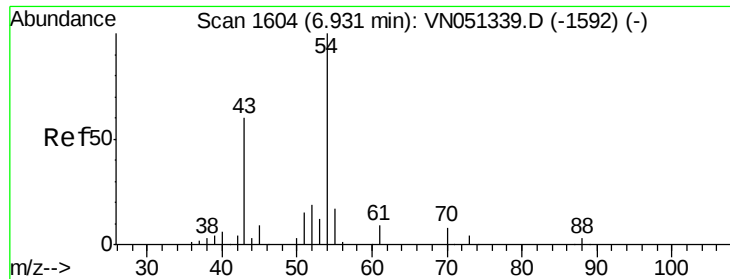
MMDadoda
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#36
 1,1-Dichloropropene
 Concen: 20.066 ug/l
 RT: 7.79 min Scan# 1872
 Delta R.T. -0.00 min
 Lab File: VN051345.D
 Acq: 20 Sep 2018 17:42

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
110	38.8	18.9	56.5	
77	31.0	25.4	38.2	





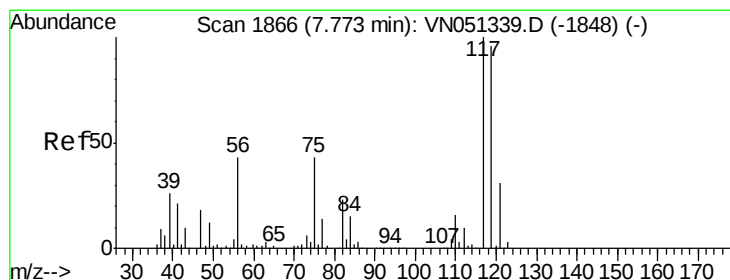
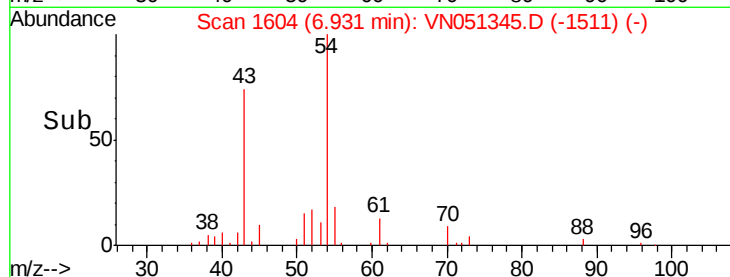
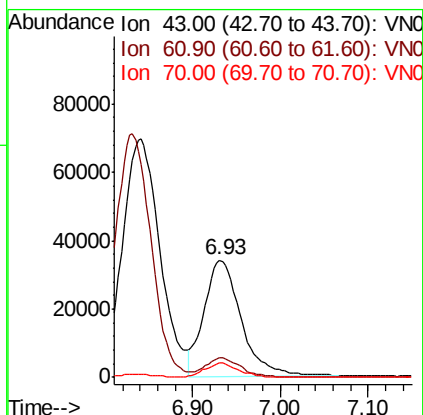
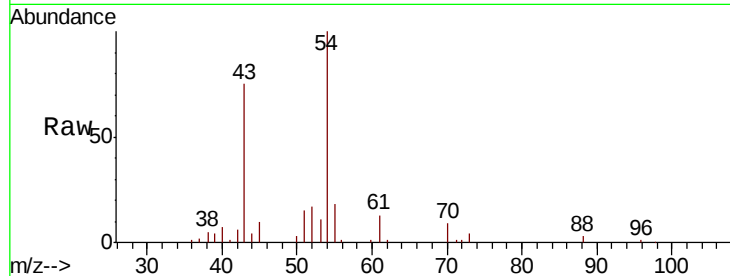
#37
Ethyl Acetate
Concen: 21.076 ug/l
RT: 6.93 min Scan# 1604
Delta R.T. -0.00 min
Lab File: VN051345.D
Acq: 20 Sep 2018 17:42

Instrument :
MSVOA_N
ClientSampleId :
VN0920WBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
61	15.5	13.6	20.4
70	11.2	9.4	14.2

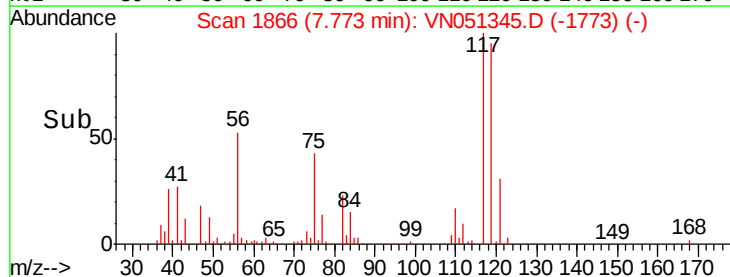
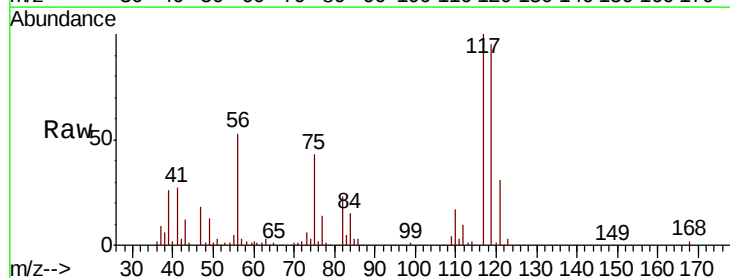
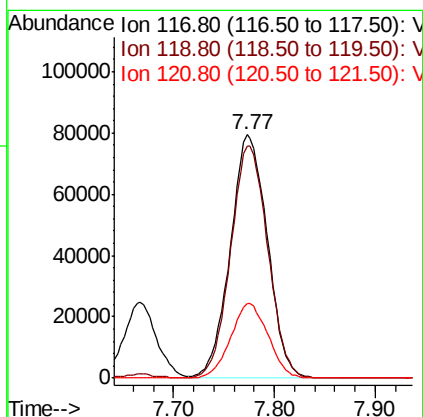
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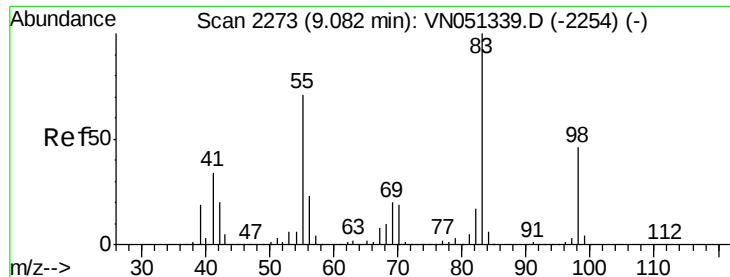
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#38
Carbon Tetrachloride
Concen: 19.585 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. -0.00 min
Lab File: VN051345.D
Acq: 20 Sep 2018 17:42

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.5	77.0	115.4
121	30.8	25.0	37.4





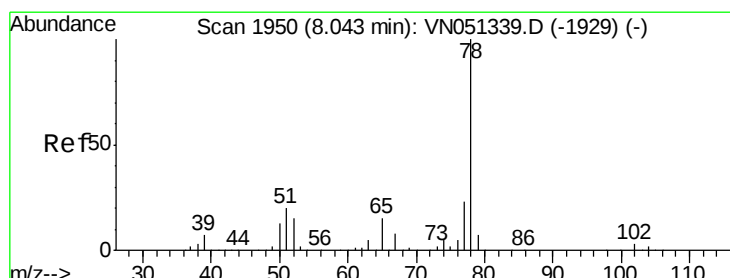
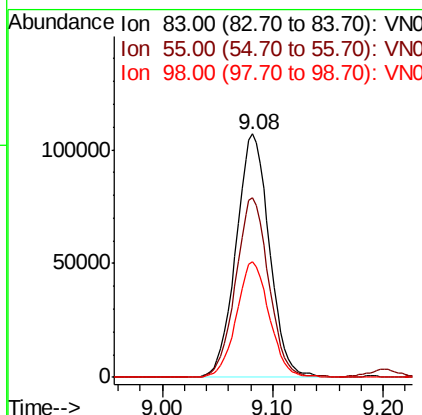
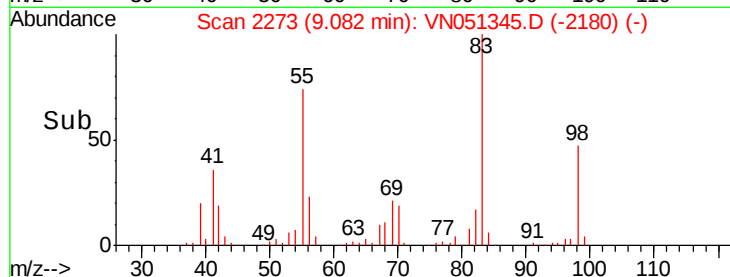
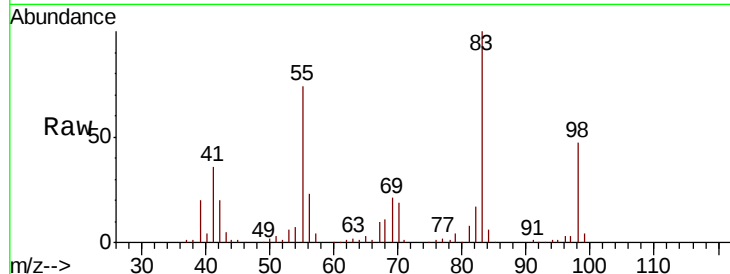
#39
Methvlcvclohexane
Concen: 20.021 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. -0.00 min
Lab File: VN051345.D
Acq: 20 Sep 2018 17:42

Instrument :
MSVOA_N
ClientSampleId :
VN0920WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
83	100	223891		
55	73.6		56.5	84.7
98	47.2		36.7	55.1

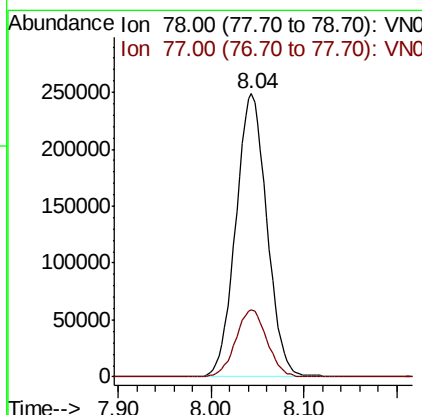
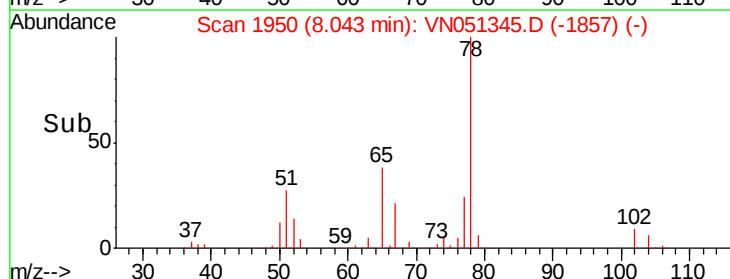
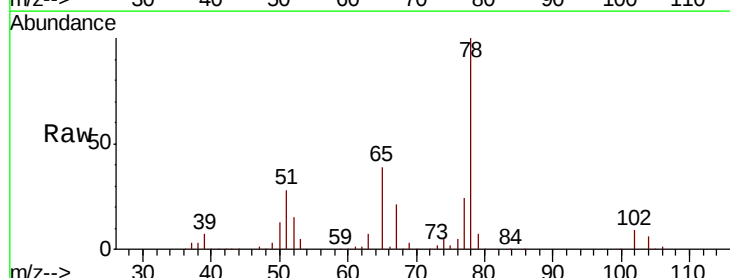
Manual Integrations
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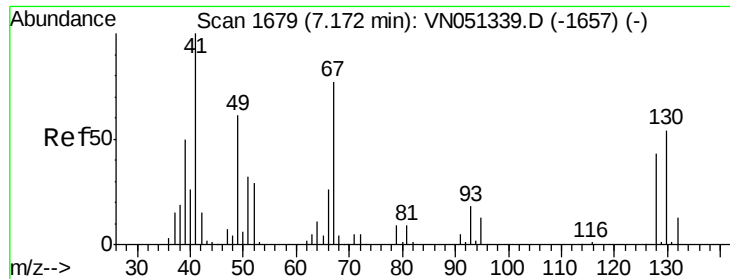
MMDadoda
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#40
Benzene
Concen: 20.077 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. -0.00 min
Lab File: VN051345.D
Acq: 20 Sep 2018 17:42

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	579647		
77	23.8		18.5	27.7





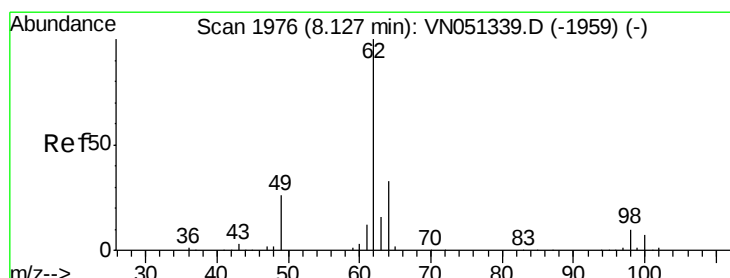
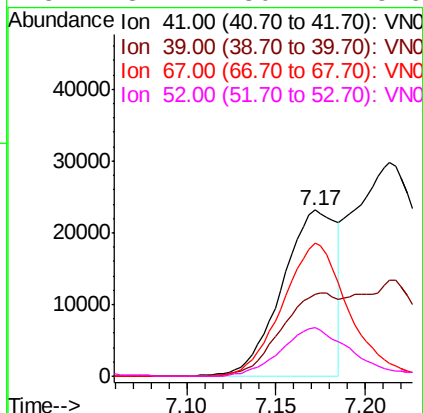
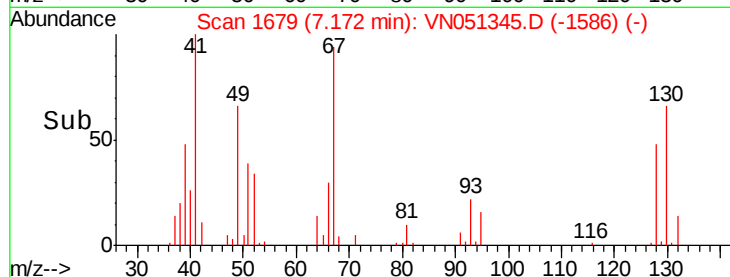
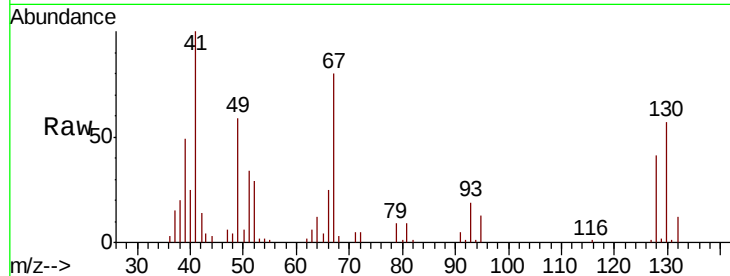
#41
Methacrylonitrile
Concen: 19.837 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. -0.00 min
Lab File: VN051345.D
Acq: 20 Sep 2018 17:42

Instrument :
MSVOA_N
ClientSampleId :
VN0920WBSD01

Tot Ion:	41	Resp:	49023
Ion	Ratio	Lower	Upper
41	100		
39	51.2	51.3	76.9#
67	97.7	77.0	115.4
52	37.7	30.4	45.6

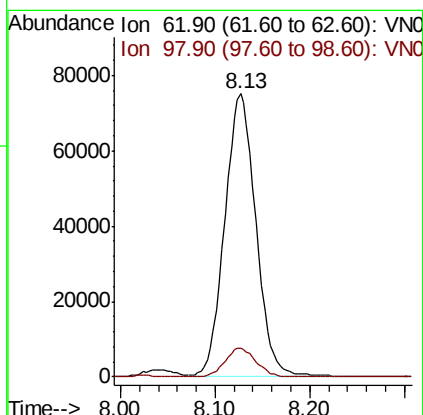
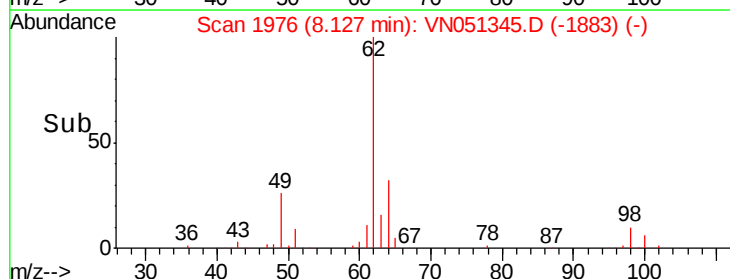
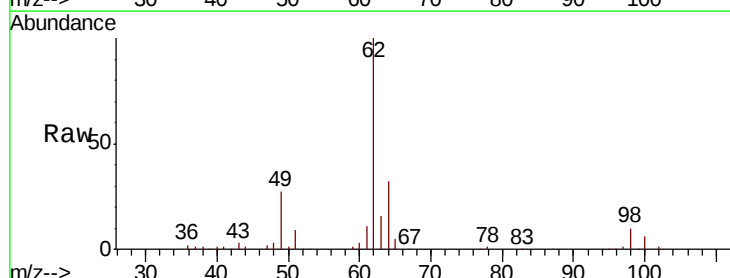
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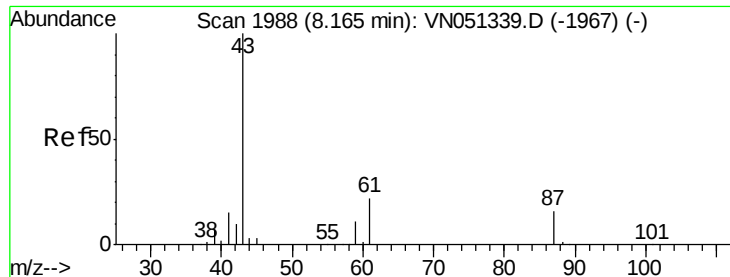
MMDadoda
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#42
1,2-Dichloroethane
Concen: 19.577 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. -0.00 min
Lab File: VN051345.D
Acq: 20 Sep 2018 17:42

Tgt Ion:	62	Resp:	170742
Ion	Ratio	Lower	Upper
62	100		
98	10.0	0.0	20.6





#43

Isopropyl Acetate

Concen: 21.263 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. -0.00 min

Lab File: VN051345.D

Acq: 20 Sep 2018 17:42

Instrument :

MSVOA_N

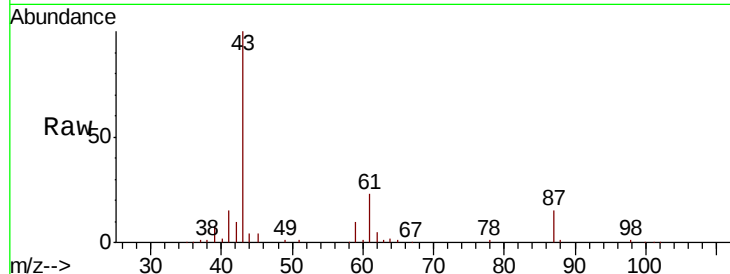
ClientSampleId :

VN0920WBSD01

Tot Ion:	43	Resp:	176650
Ion	Ratio	Lower	Upper
43	100		
61	32.4	18.1	27.1#
87	15.8	12.8	19.2

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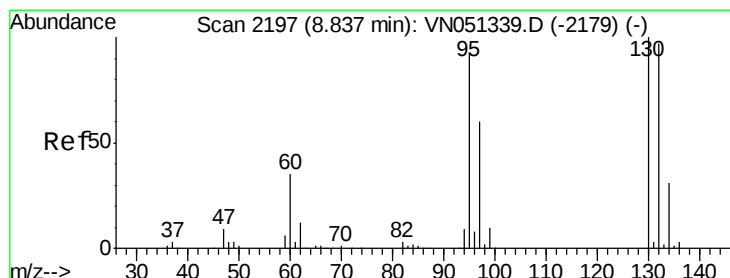
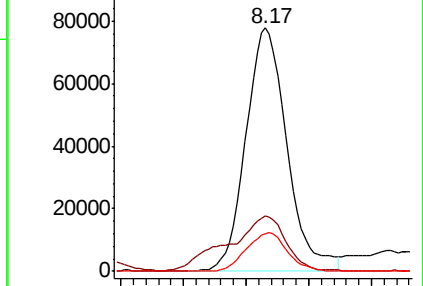
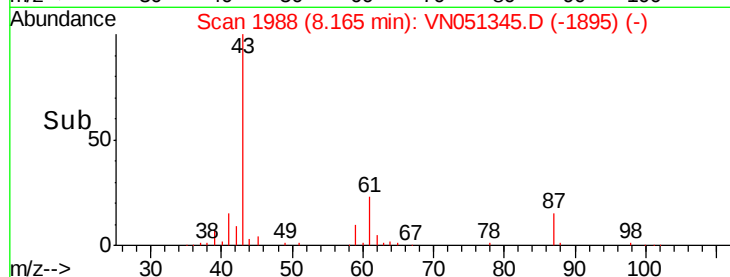


Abundance Ion 43.00 (42.70 to 43.70): VN051339.D (-1967) (-)

Ion 61.00 (60.70 to 61.70): VN051339.D (-1967) (-)

Ion 87.00 (86.70 to 87.70): VN051339.D (-1967) (-)

Time-->



#44

Trichloroethene

Concen: 19.873 ug/l

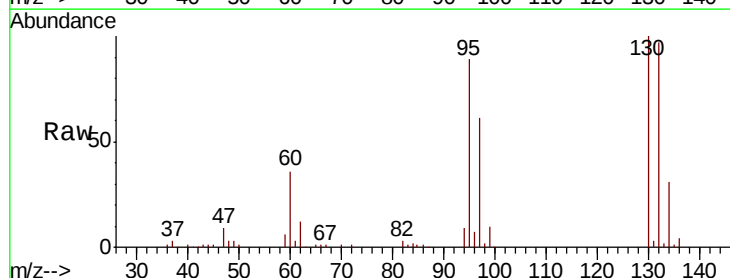
RT: 8.84 min Scan# 2197

Delta R.T. -0.00 min

Lab File: VN051345.D

Acq: 20 Sep 2018 17:42

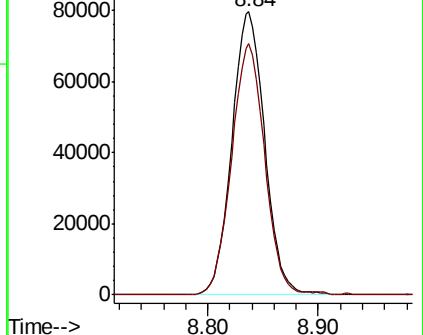
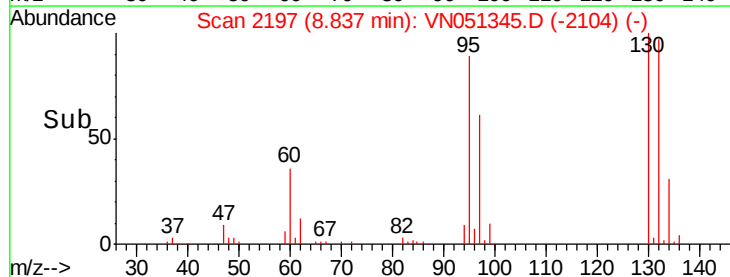
Tgt Ion:	130	Resp:	164711
Ion	Ratio	Lower	Upper
130	100		
95	88.7	0.0	185.6

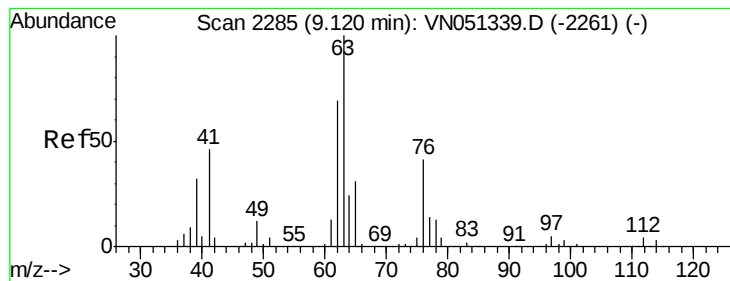


Abundance Ion 129.80 (129.50 to 130.50): VN051339.D (-2179) (-)

Ion 94.90 (94.60 to 95.60): VN051339.D (-2179) (-)

Time-->





#45

1,2-Dichloropropane

Concen: 20.251 ug/l

RT: 9.12 min Scan# 2285

Delta R.T. -0.00 min

Lab File: VN051345.D

Acq: 20 Sep 2018 17:42

Instrument :

MSVOA_N

ClientSampleId :

VN0920WBSD01

Tot Ion: 63 Resp: 149614

Ion Ratio Lower Upper

63 100

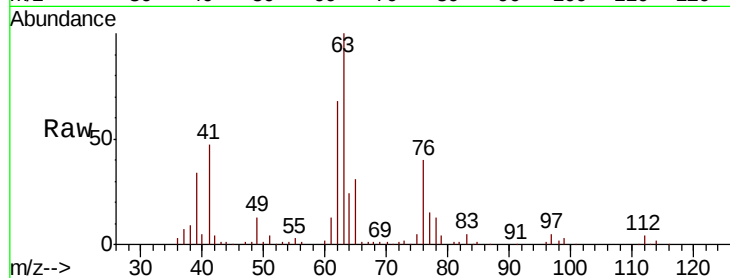
65 31.5 24.7 37.1

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Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

80000

60000

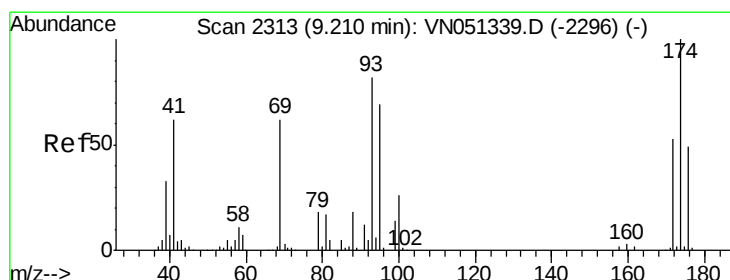
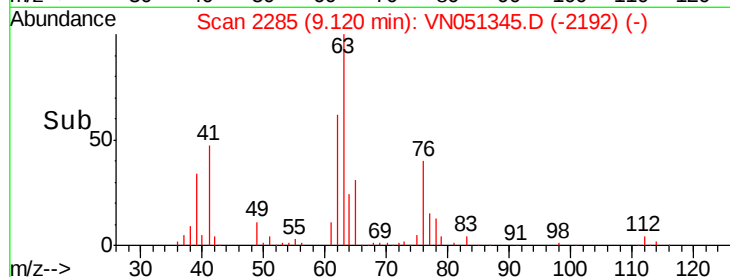
40000

20000

0

9.00 9.10 9.20

Time-->



#46

Dibromomethane

Concen: 19.866 ug/l

RT: 9.21 min Scan# 2313

Delta R.T. -0.00 min

Lab File: VN051345.D

Acq: 20 Sep 2018 17:42

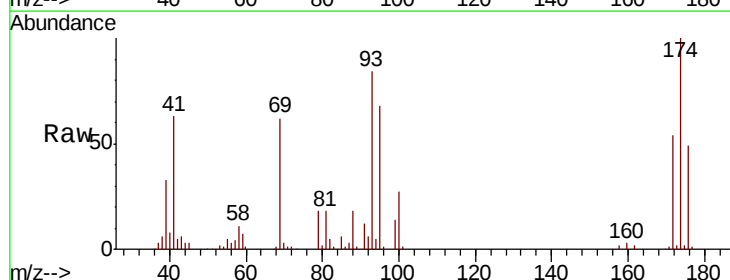
Tgt Ion: 93 Resp: 90477

Ion Ratio Lower Upper

93 100

95 84.4 67.6 101.4

174 121.8 98.9 148.3



Abundance Ion 92.80 (92.50 to 93.50): VN0

Ion 94.80 (94.50 to 95.50): VN0

Ion 173.70 (173.40 to 174.40): V

60000

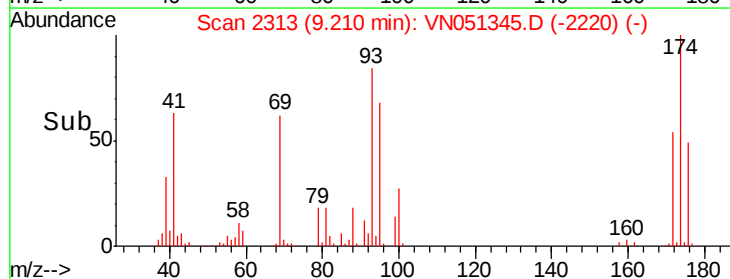
40000

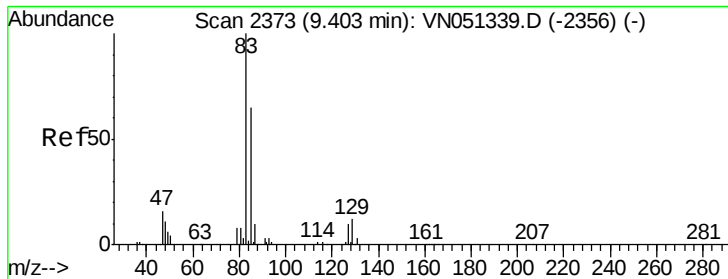
20000

0

9.10 9.20 9.30

Time-->





#47

Bromodichloromethane

Concen: 19.381 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. -0.00 min

Lab File: VN051345.D

Acq: 20 Sep 2018 17:42

Instrument :

MSVOA_N

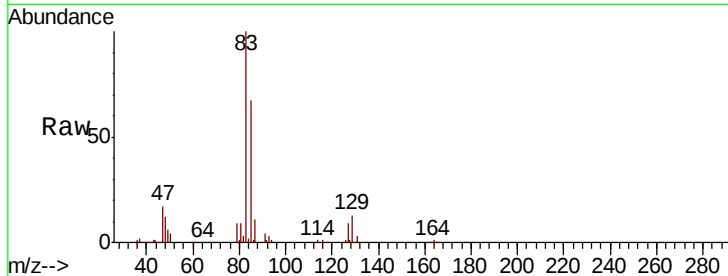
ClientSampleId :

VN0920WBSD01

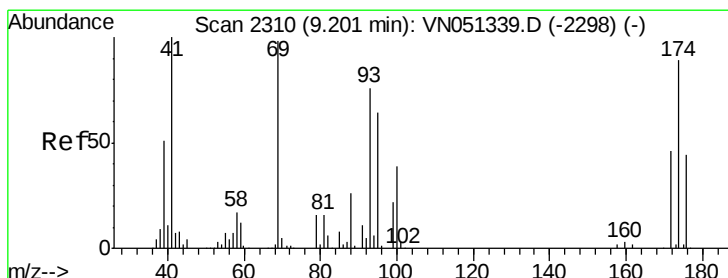
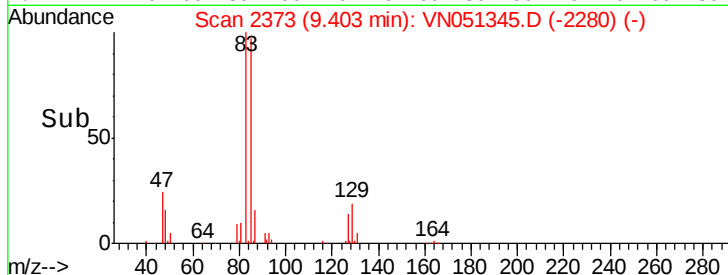
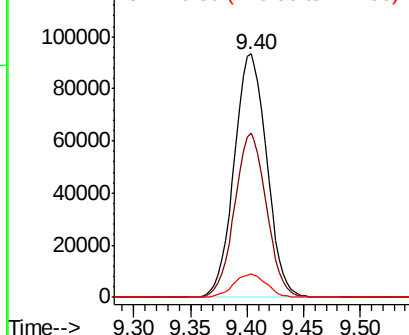
Tot Ion:	83	Resp:	188284
Ion	Ratio	Lower	Upper
83	100		
85	67.2	51.6	77.4
127	9.4	7.8	11.6

Manual Integrations
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Abundance Ion 82.90 (82.60 to 83.60): VN0
Ion 84.90 (84.60 to 85.60): VN0
Ion 126.80 (126.50 to 127.50): V



#48

Methyl methacrylate

Concen: 19.582 ug/l

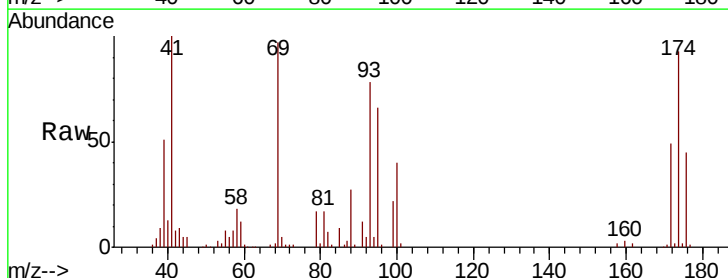
RT: 9.20 min Scan# 2310

Delta R.T. -0.00 min

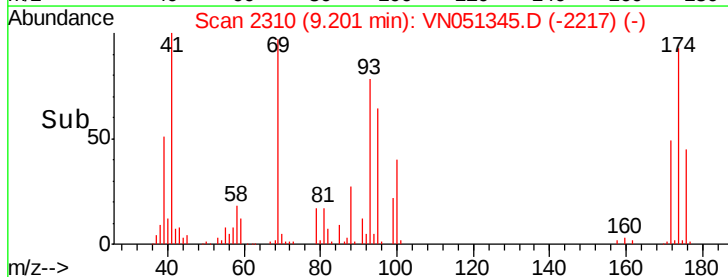
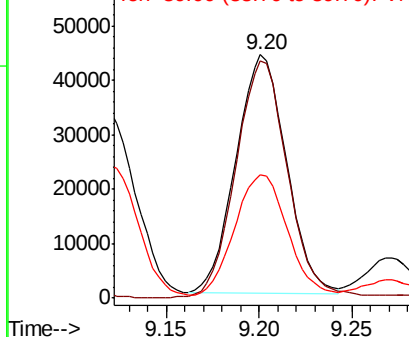
Lab File: VN051345.D

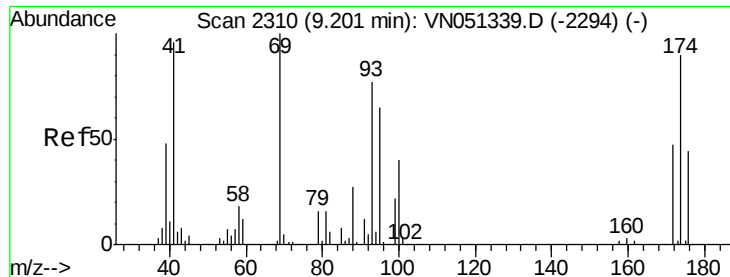
Acq: 20 Sep 2018 17:42

Tgt Ion:	41	Resp:	82939
Ion	Ratio	Lower	Upper
41	100		
69	101.1	79.4	119.0
39	54.4	43.0	64.6



Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0





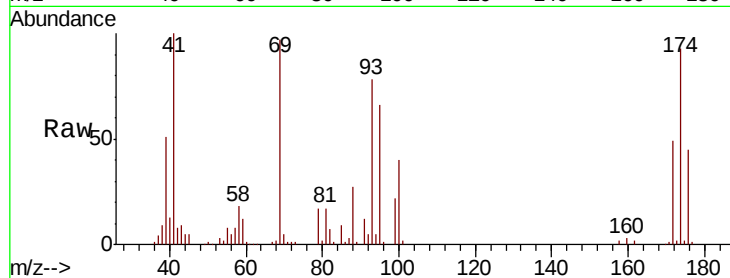
#49
1,4-Dioxane
Concen: 404.602 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. -0.00 min
Lab File: VN051345.D
Acq: 20 Sep 2018 17:42

Instrument :
MSVOA_N
ClientSampleId :
VN0920WBSD01

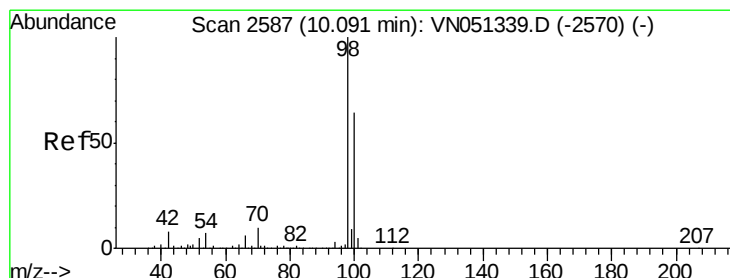
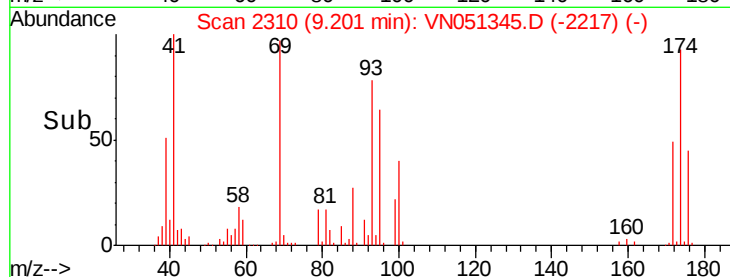
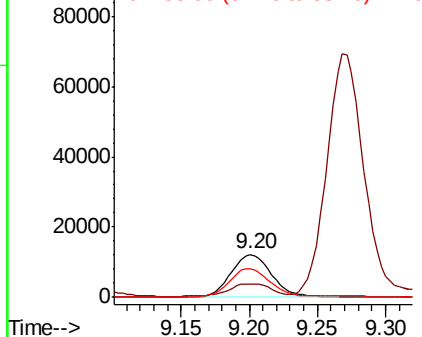
Tot Ion	Ratio	Lower	Upper
88	100		
43	30.9	23.5	35.3
58	68.3	52.1	78.1

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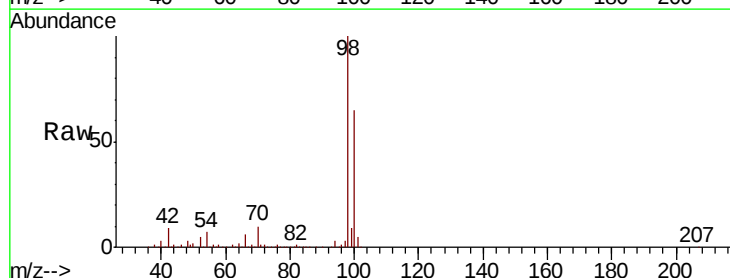


Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0

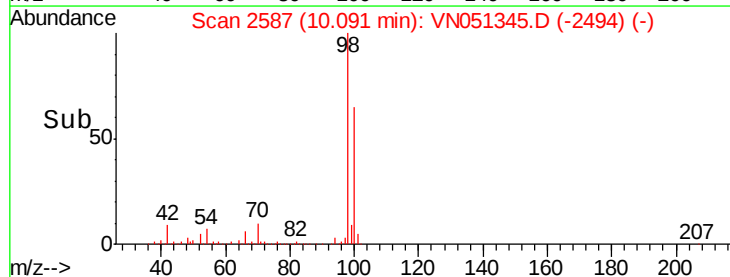
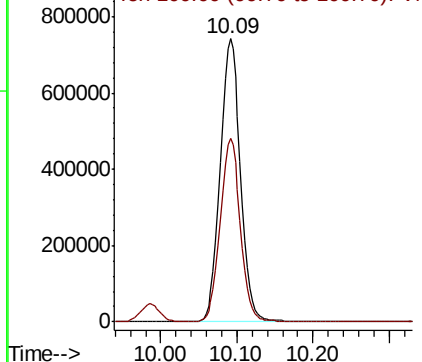


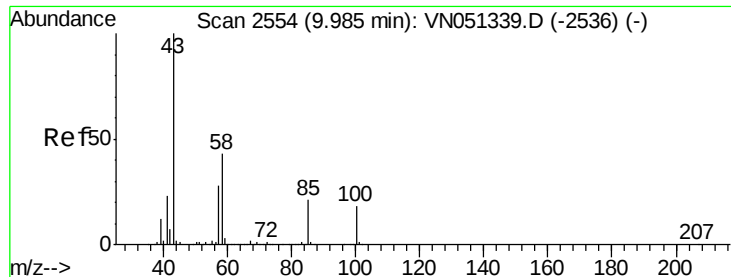
#50
Toluene-d8
Concen: 47.235 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN051345.D
Acq: 20 Sep 2018 17:42

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.4	51.3	76.9



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 105.586 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN051345.D

Acq: 20 Sep 2018 17:42

Instrument :

MSVOA_N

ClientSampleId :

VN0920WBSD01

Tot Ion: 43 Resp: 471845

Ion Ratio Lower Upper

43 100

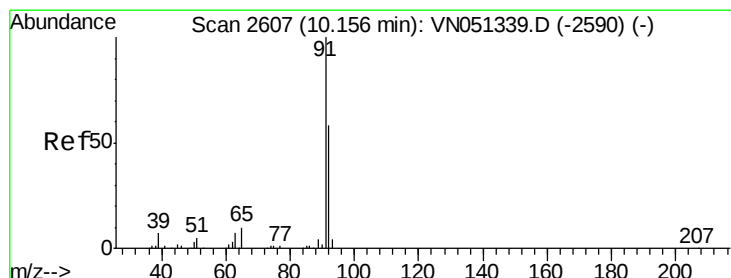
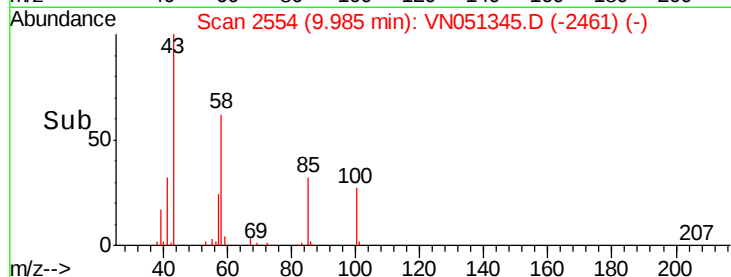
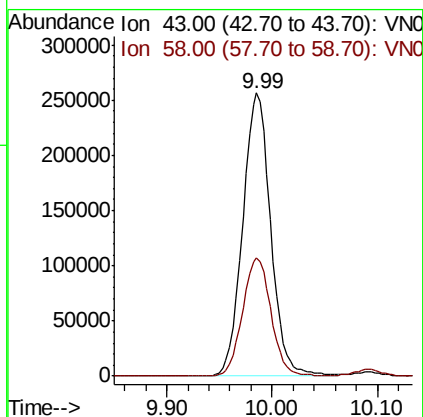
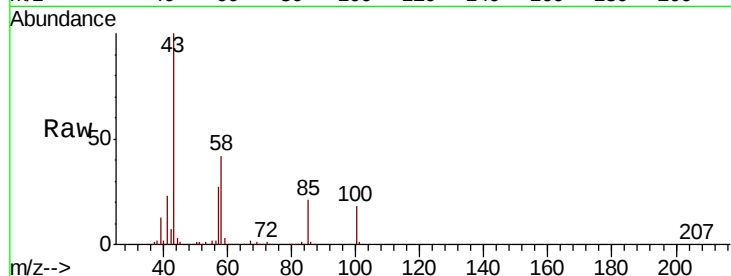
58 42.5 34.2 51.4

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#52

Toluene

Concen: 20.890 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN051345.D

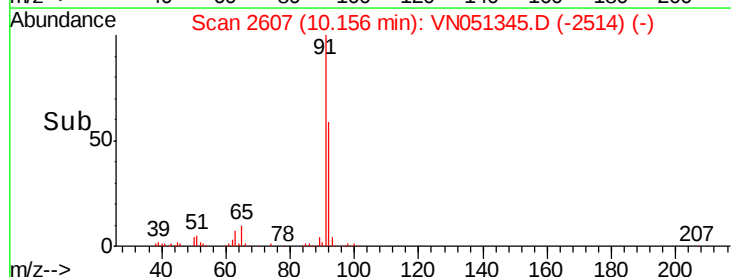
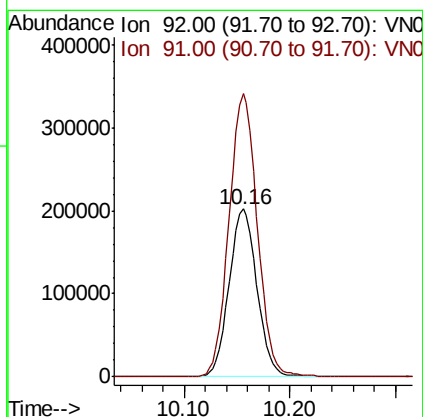
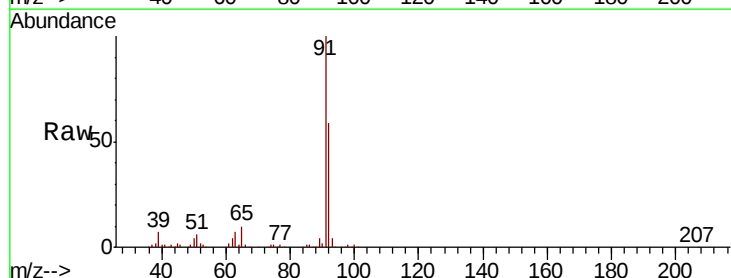
Acq: 20 Sep 2018 17:42

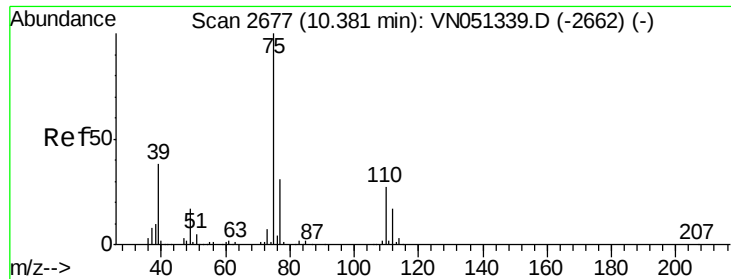
Tgt Ion: 92 Resp: 371385

Ion Ratio Lower Upper

92 100

91 171.0 139.7 209.5





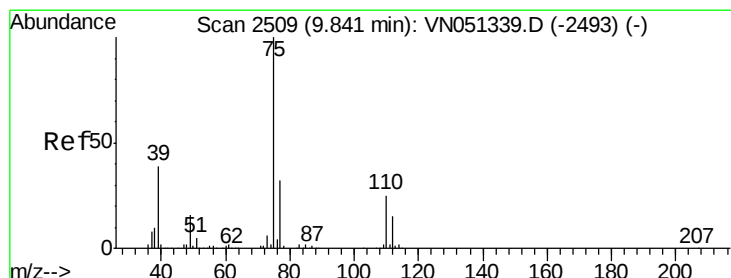
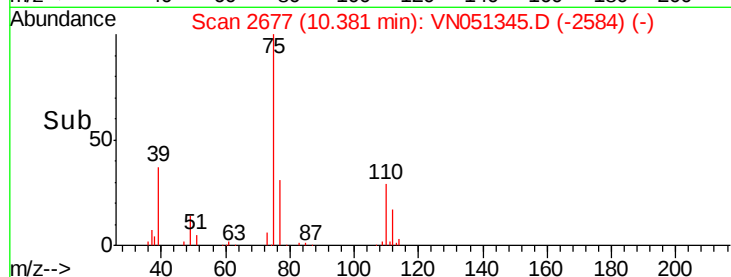
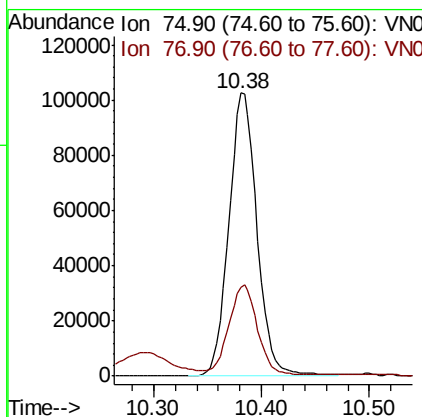
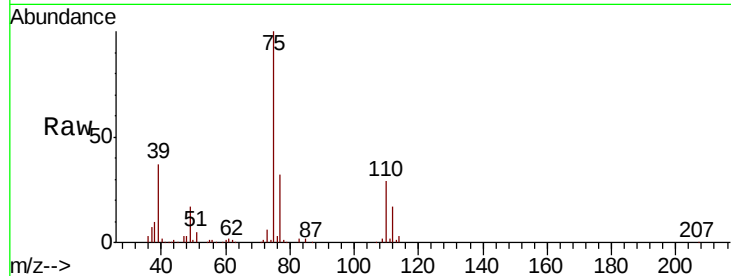
#53
t-1,3-Dichloropropene
Concen: 20.031 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. -0.00 min
Lab File: VN051345.D
Acq: 20 Sep 2018 17:42

Instrument :
MSVOA_N
ClientSampled :
VN0920WBSD01

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.1	25.5	38.3

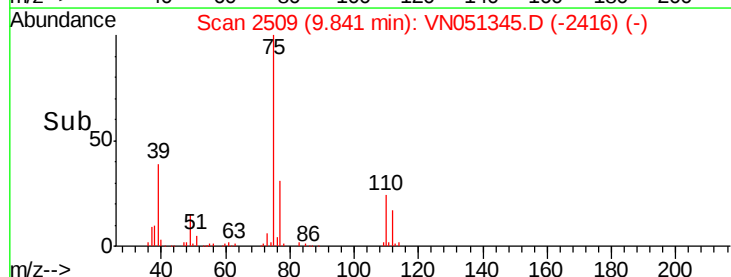
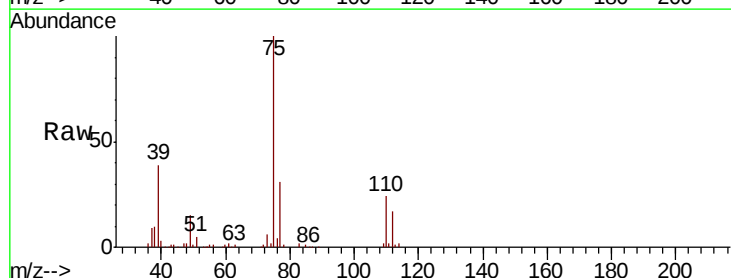
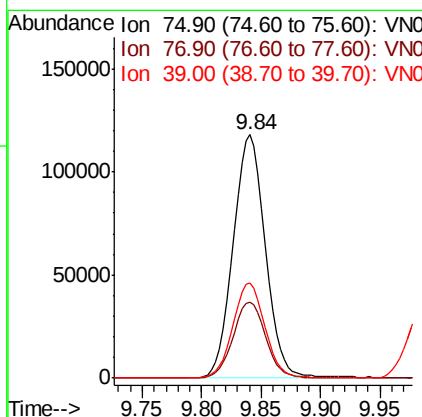
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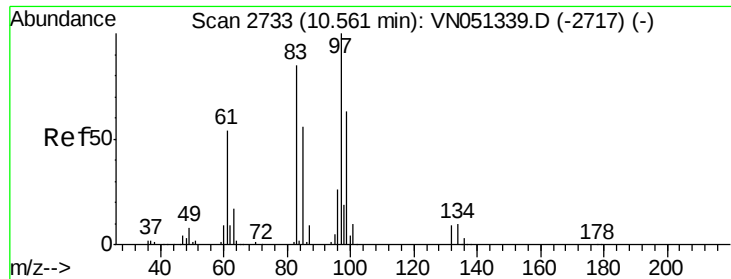
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#54
cis-1,3-Dichloropropene
Concen: 20.469 ug/l
RT: 9.84 min Scan# 2509
Delta R.T. -0.00 min
Lab File: VN051345.D
Acq: 20 Sep 2018 17:42

Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.1	25.2	37.8
39	39.3	31.0	46.4





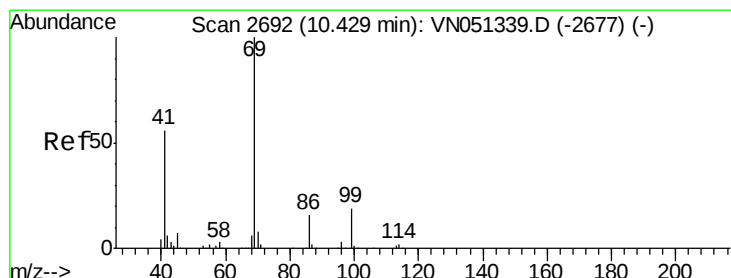
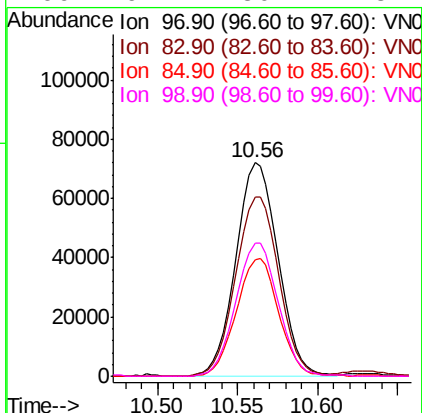
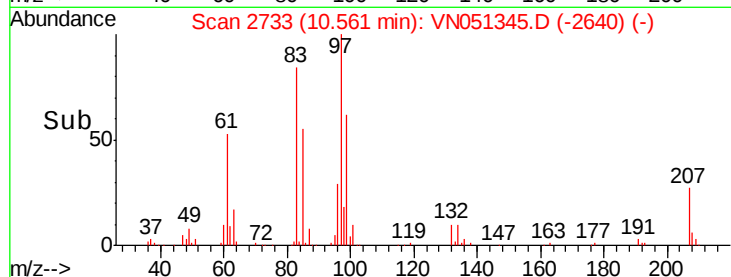
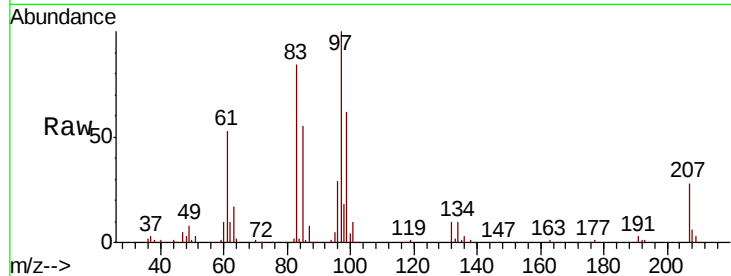
#55
 1,1,2-Trichloroethane
 Concen: 19.493 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. -0.00 min
 Lab File: VN051345.D
 Acq: 20 Sep 2018 17:42

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0920WBSD01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		129987		
83	83.8	68.1	102.1		
85	54.7	44.6	66.8		
99	62.1	50.2	75.4		

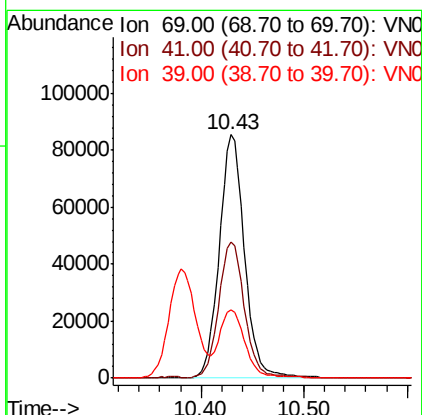
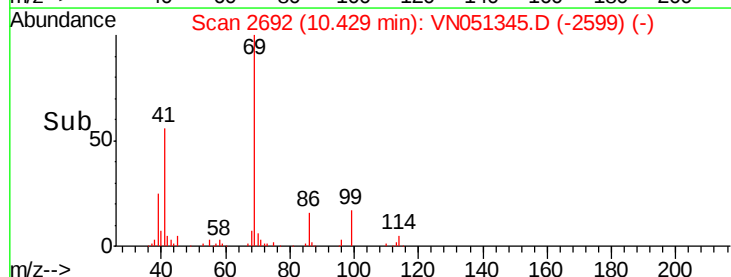
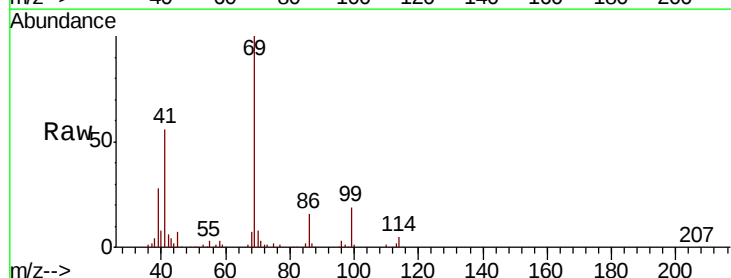
Manual Integrations
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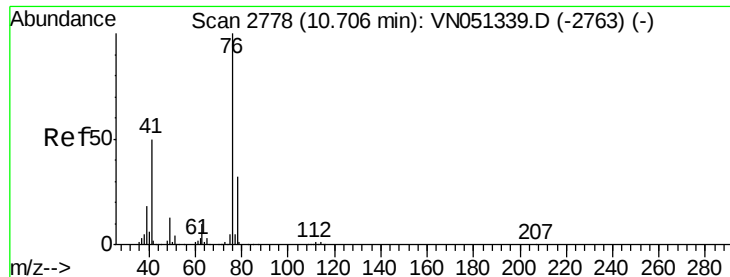
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#56
 Ethyl methacrylate
 Concen: 20.712 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. -0.00 min
 Lab File: VN051345.D
 Acq: 20 Sep 2018 17:42

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		145881		
41	56.4	45.1	67.7		
39	28.0	23.4	35.2		





#57

1,3-Dichloropropane

Concen: 20.339 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN051345.D

Acq: 20 Sep 2018 17:42

Instrument :

MSVOA_N

ClientSampleId :

VN0920WBSD01

Tot Ion: 76 Resp: 213636

Ion Ratio Lower Upper

76 100

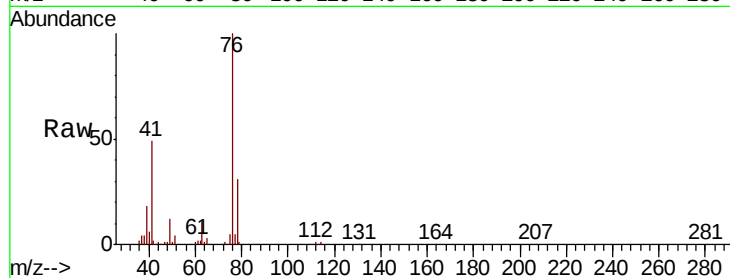
78 31.9 25.7 38.5

Manual Integrations

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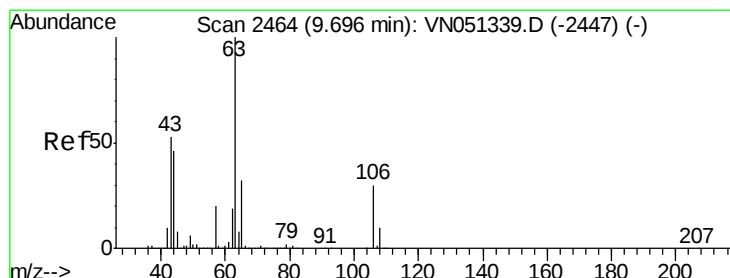
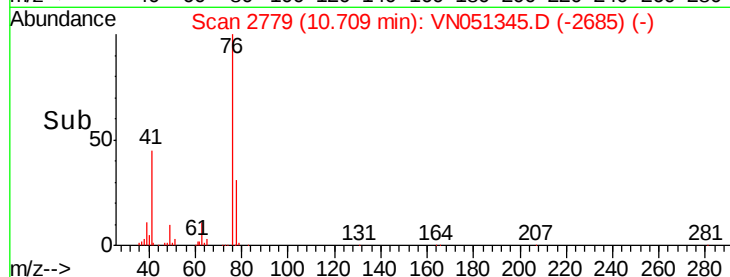
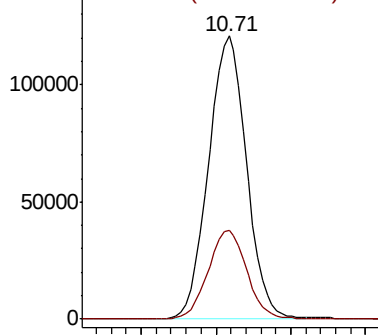
MMDadoda

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Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#58

2-Chloroethyl Vinyl ether

Concen: 107.011 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. -0.00 min

Lab File: VN051345.D

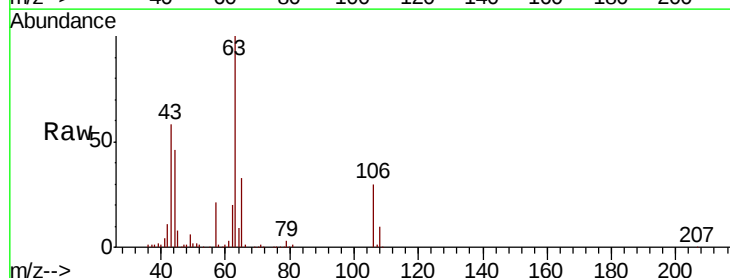
Acq: 20 Sep 2018 17:42

Tgt Ion: 63 Resp: 370588

Ion Ratio Lower Upper

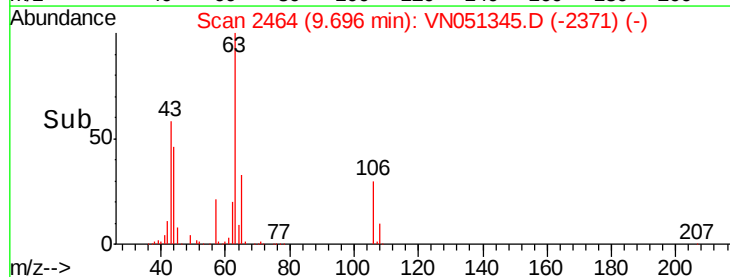
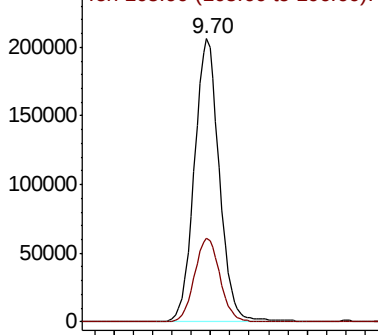
63 100

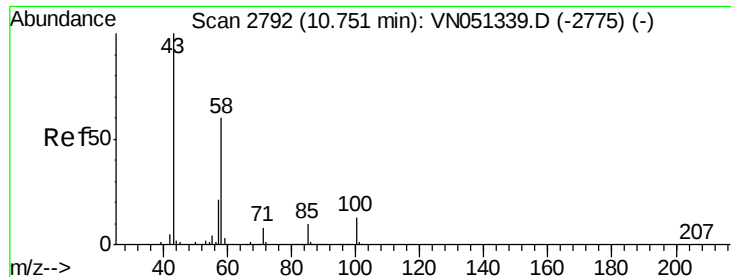
106 30.1 23.7 35.5



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V





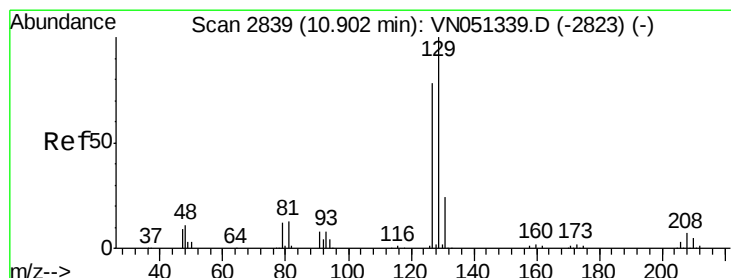
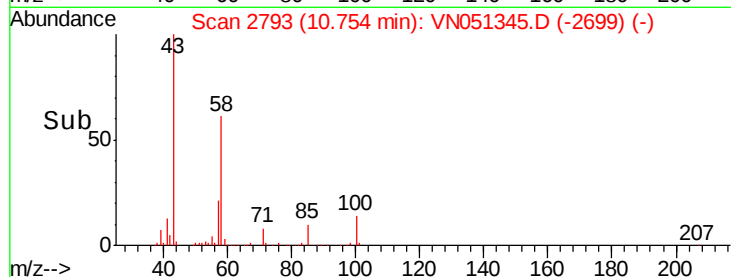
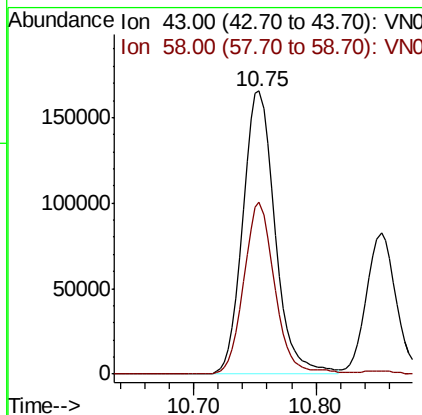
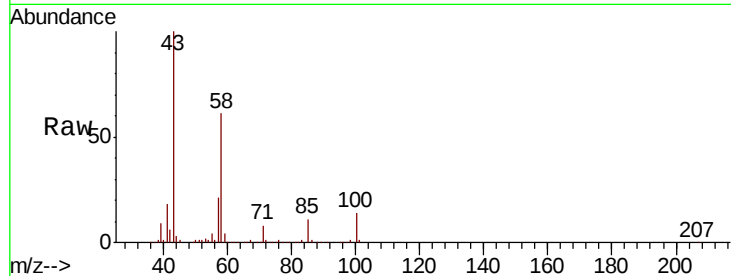
#59
2-Hexanone
Concen: 99.273 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN051345.D
Acq: 20 Sep 2018 17:42

Instrument :
MSVOA_N
ClientSampleId :
VN0920WBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
58	58.7	29.9	89.8

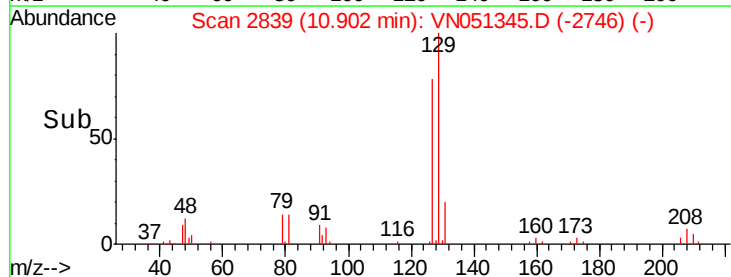
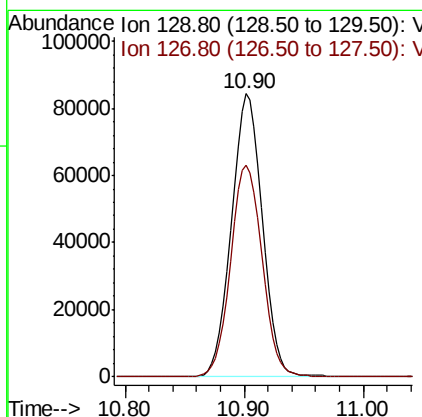
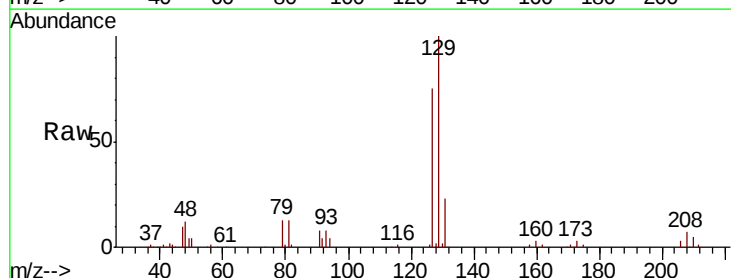
Manual Integrations
APPROVED

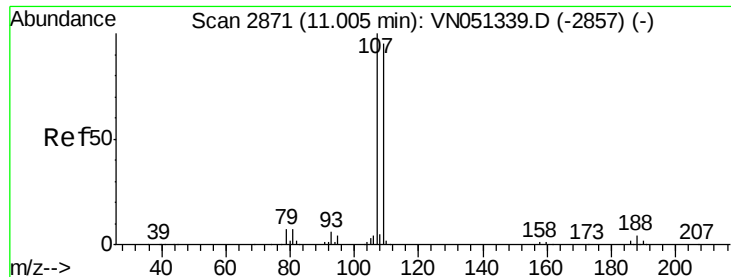
MMDadoda
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#60
Dibromochloromethane
Concen: 19.523 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. -0.00 min
Lab File: VN051345.D
Acq: 20 Sep 2018 17:42

Tgt Ion	Ratio	Lower	Upper
129	100		
127	76.3	38.6	115.8





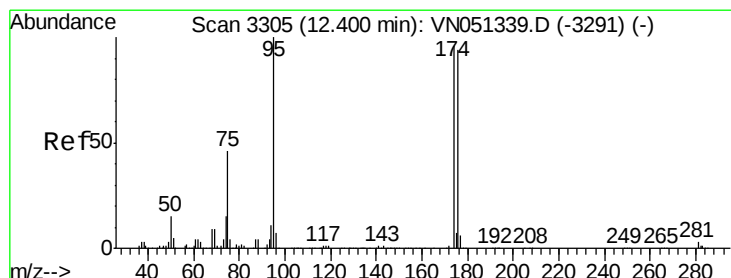
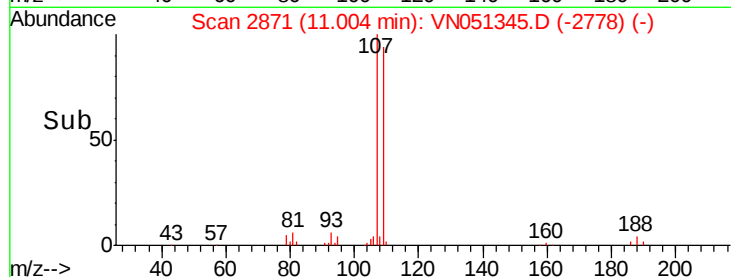
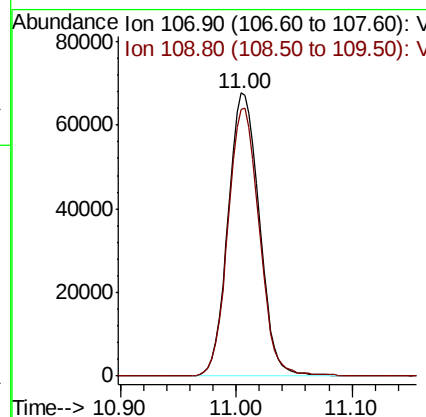
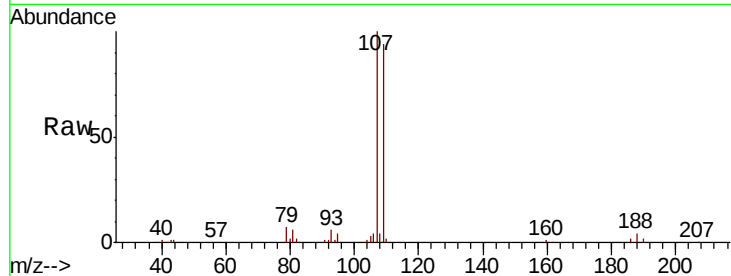
#61
 1,2-Dibromoethane
 Concen: 19.667 ug/l
 RT: 11.00 min Scan# 2871
 Delta R.T. -0.00 min
 Lab File: VN051345.D
 Acq: 20 Sep 2018 17:42

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0920WBSD01

Tot Ion	Ratio	Lower	Upper
107	100		
109	95.0	75.8	113.6

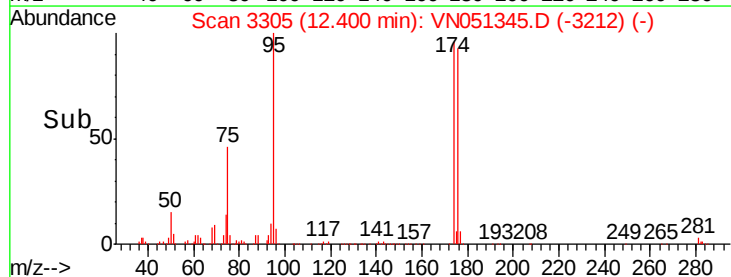
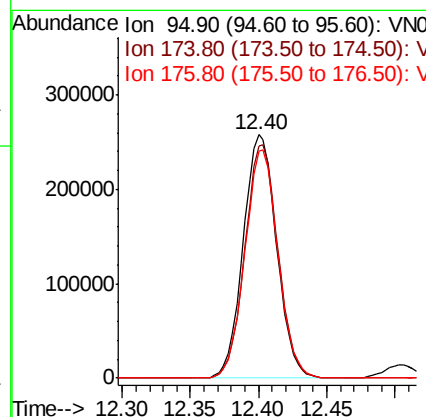
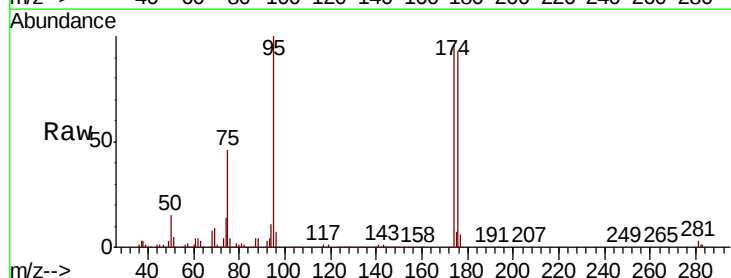
Manual Integrations
 APPROVED

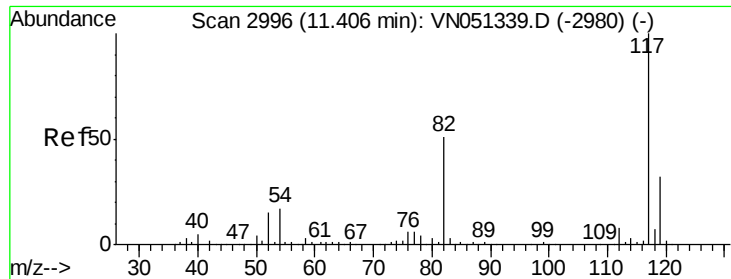
MMDadoda
 9/24/2018 2:48:19 PM



#62
 4-Bromofluorobenzene
 Concen: 46.091 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.00 min
 Lab File: VN051345.D
 Acq: 20 Sep 2018 17:42

Tgt Ion	Ratio	Lower	Upper
95	100		
174	95.2	0.0	194.6
176	93.2	0.0	189.6





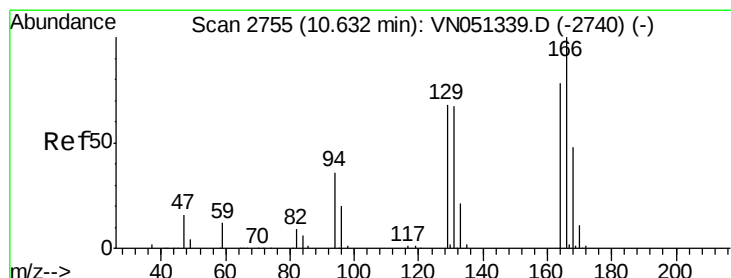
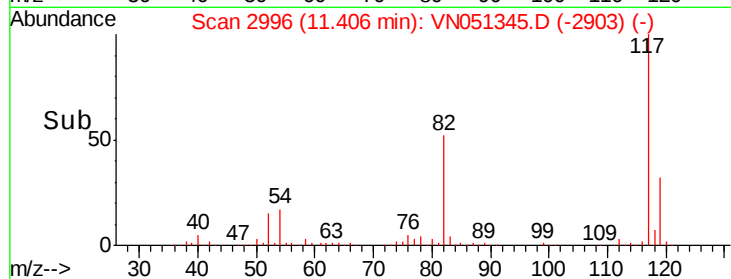
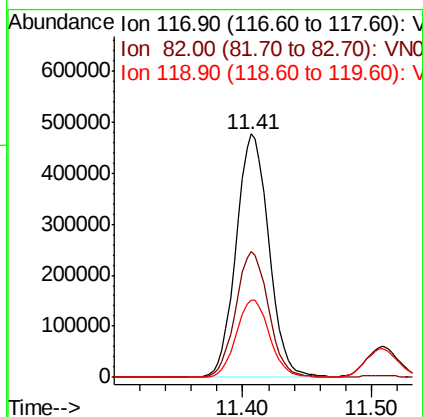
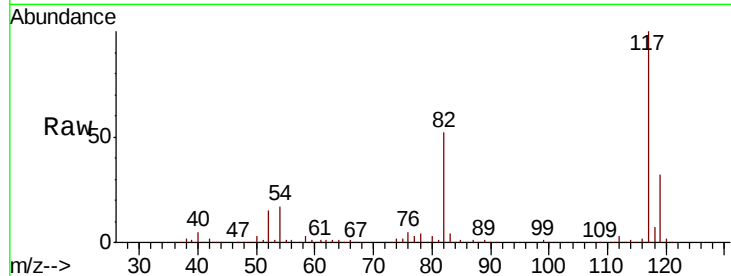
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN051345.D
Acq: 20 Sep 2018 17:42

Instrument :
MSVOA_N
ClientSampleId :
VN0920WBSD01

Tot Ion	Ratio	Lower	Upper
117	100		
82	51.6	40.7	61.1
119	31.9	25.3	37.9

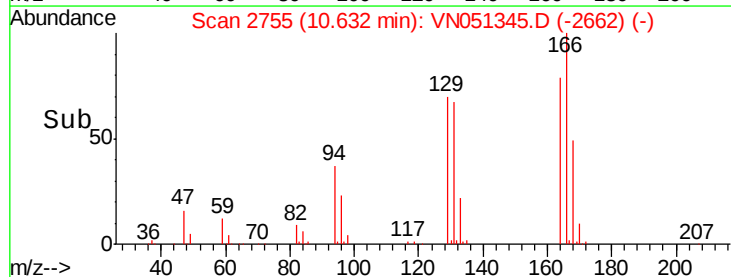
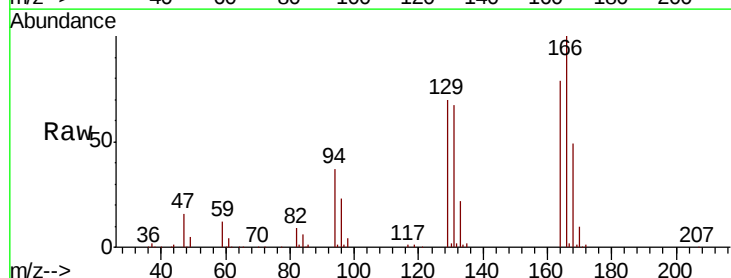
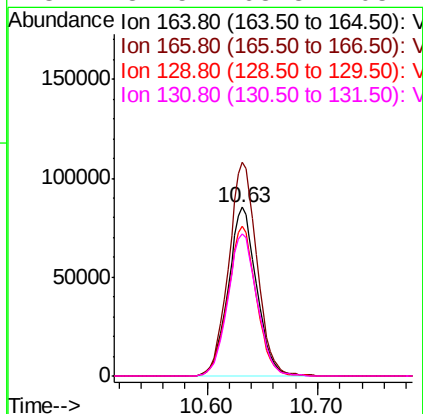
Manual Integrations
APPROVED

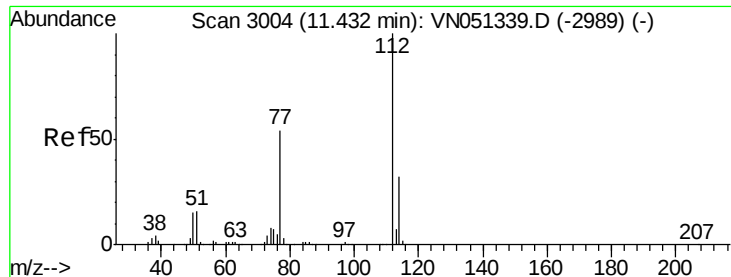
MMDadoda
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#64
Tetrachloroethene
Concen: 20.665 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.00 min
Lab File: VN051345.D
Acq: 20 Sep 2018 17:42

Tgt Ion	Ratio	Lower	Upper
164	100		
166	126.7	102.1	153.1
129	89.2	69.4	104.2
131	84.5	68.8	103.2





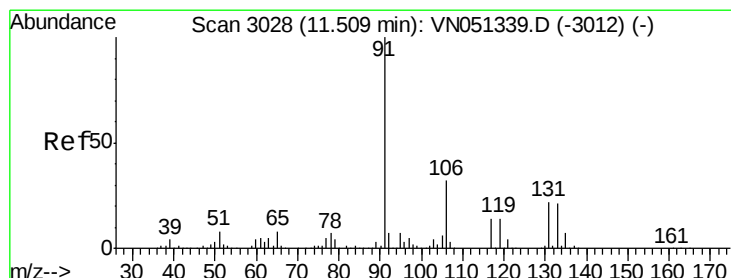
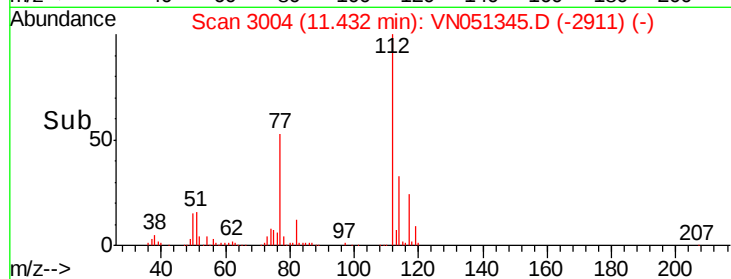
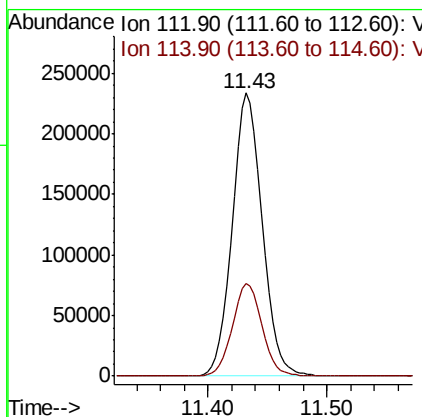
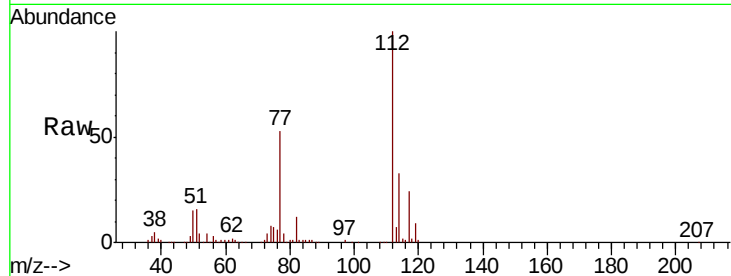
#65
Chlorobenzene
Concen: 20.238 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. -0.00 min
Lab File: VN051345.D
Acq: 20 Sep 2018 17:42

Instrument :
MSVOA_N
ClientSampleId :
VN0920WBSD01

Tot Ion	Ratio	Lower	Upper
112	100		
114	32.8	25.5	38.3

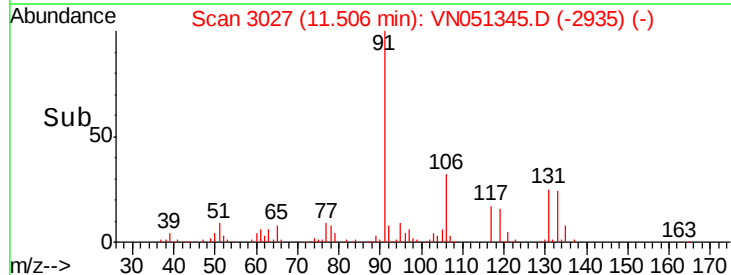
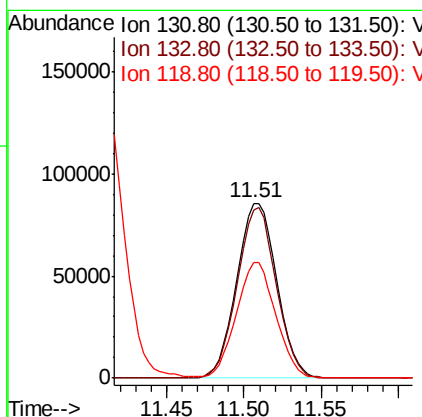
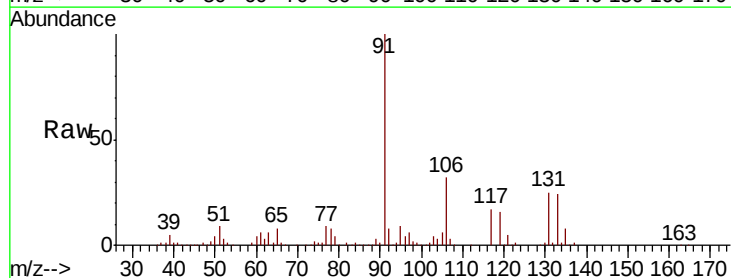
Manual Integrations
APPROVED

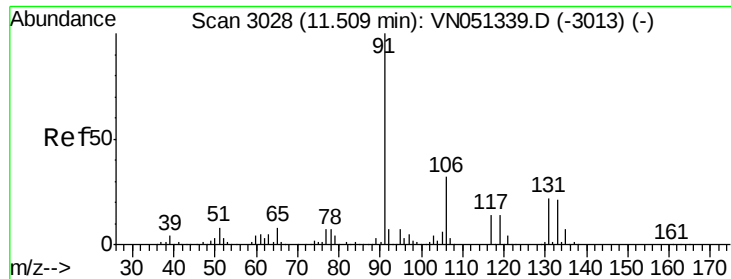
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#66
1,1,1,2-Tetrachloroethane
Concen: 20.189 ug/l
RT: 11.51 min Scan# 3027
Delta R.T. -0.00 min
Lab File: VN051345.D
Acq: 20 Sep 2018 17:42

Tgt Ion	Ratio	Lower	Upper
131	100		
133	95.0	47.4	142.2
119	64.9	32.6	97.7





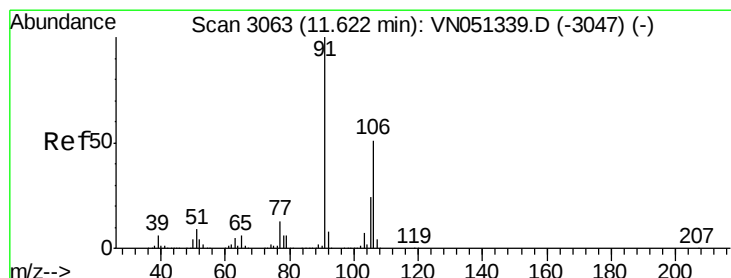
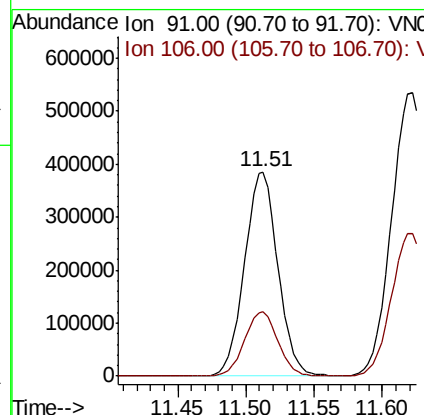
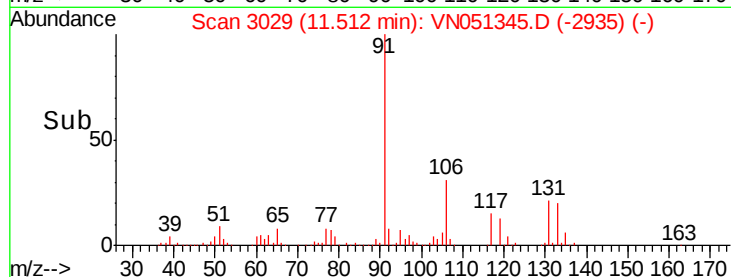
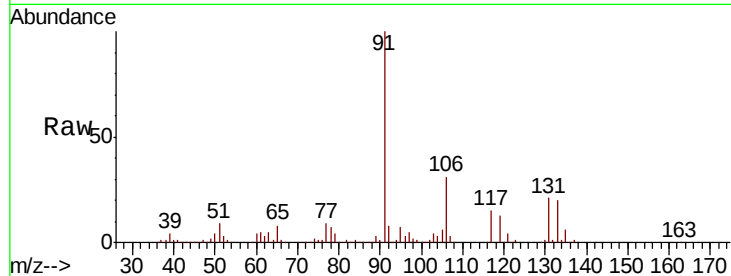
#67
Ethyl Benzene
Concen: 20.798 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. 0.00 min
Lab File: VN051345.D
Acq: 20 Sep 2018 17:42

Instrument :
MSVOA_N
ClientSampled :
VN0920WBSD01

Tot Ion: 91 Resp: 654578
Ion Ratio Lower Upper
91 100
106 31.3 25.8 38.8

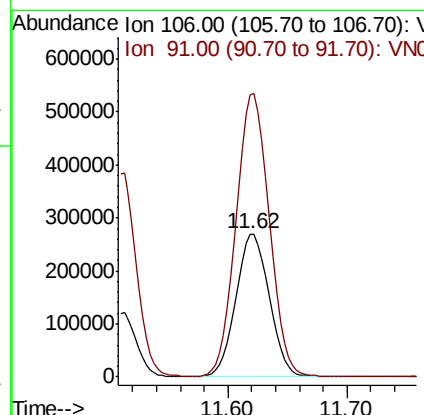
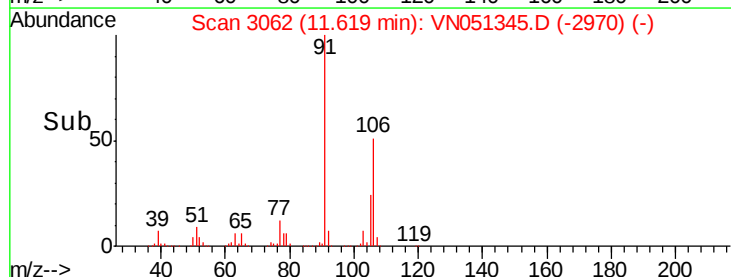
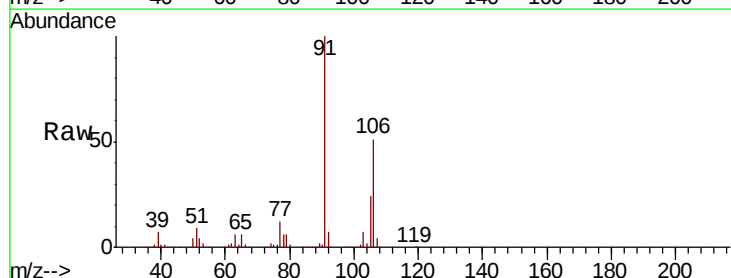
Manual Integrations
APPROVED

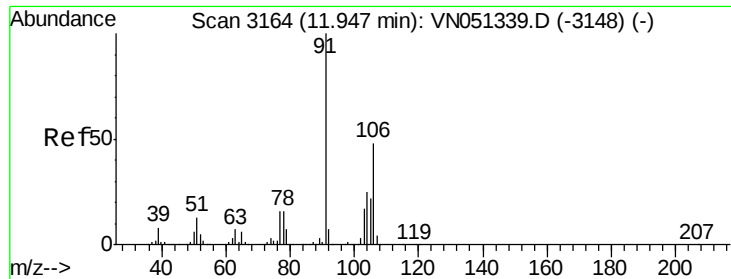
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#68
m/p-Xylenes
Concen: 42.426 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN051345.D
Acq: 20 Sep 2018 17:42

Tgt Ion: 106 Resp: 524589
Ion Ratio Lower Upper
106 100
91 197.8 156.5 234.7





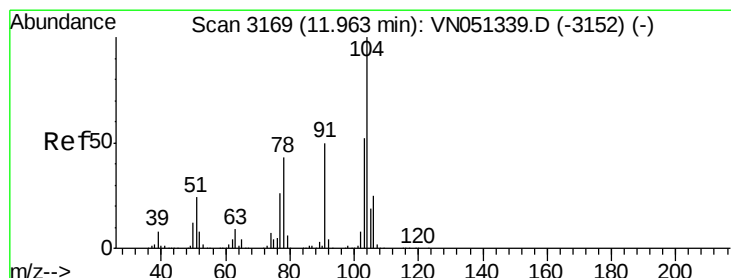
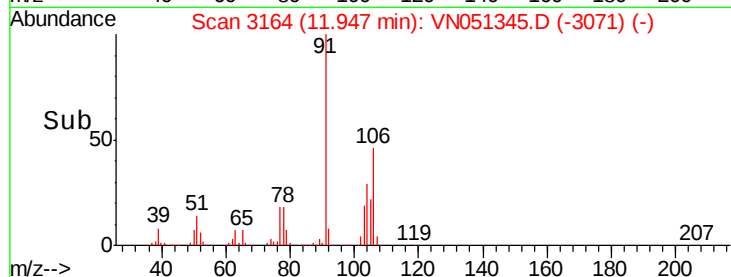
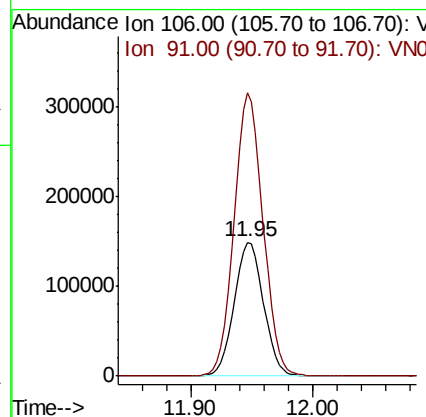
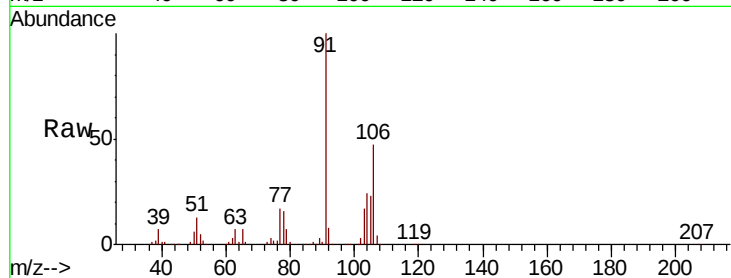
#69
o-Xylene
Concen: 20.990 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN051345.D
Acq: 20 Sep 2018 17:42

Instrument :
MSVOA_N
ClientSampled :
VN0920WBSD01

Tot Ion	Ratio	Lower	Upper
106	100		
91	208.5	104.6	313.7

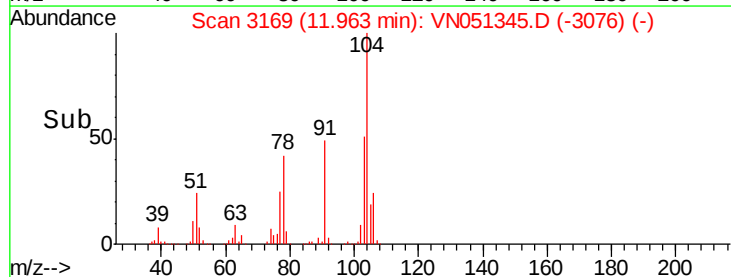
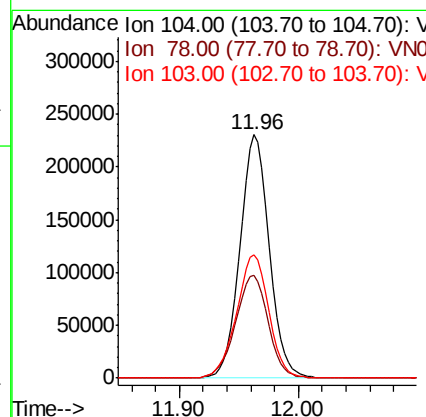
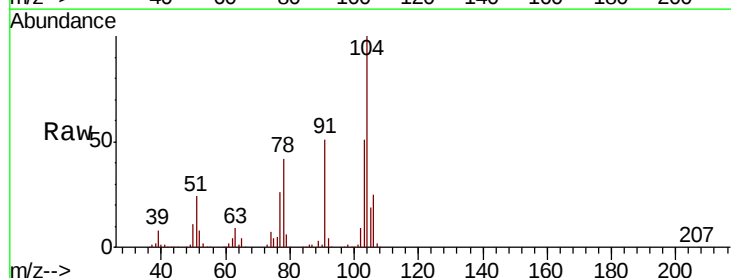
Manual Integrations
APPROVED

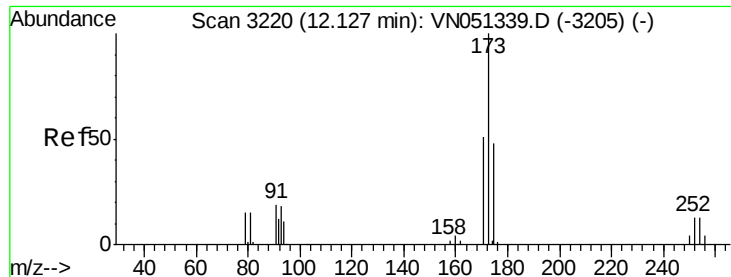
MMDadoda
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#70
Styrene
Concen: 21.264 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN051345.D
Acq: 20 Sep 2018 17:42

Tgt Ion	Ratio	Lower	Upper
104	100		
78	47.2	37.8	56.6
103	55.6	44.3	66.5





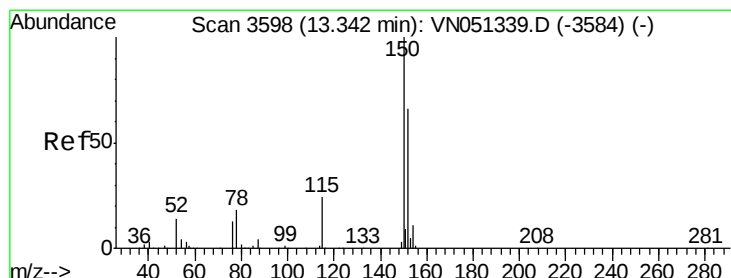
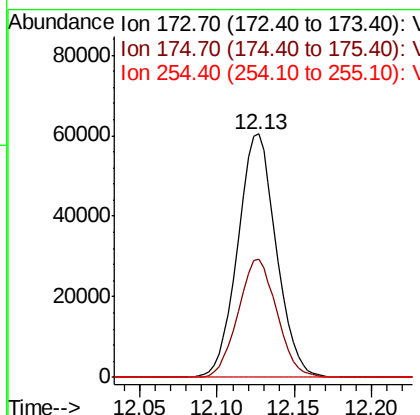
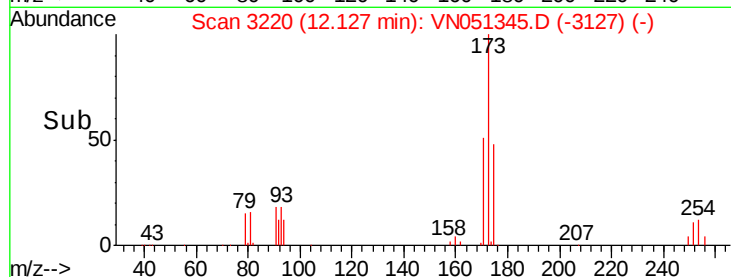
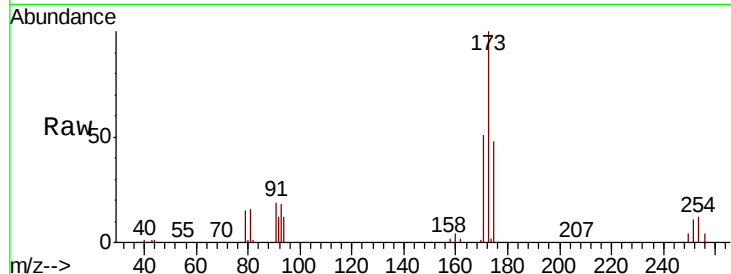
#71
Bromoform
Concen: 20.097 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. -0.00 min
Lab File: VN051345.D
Acq: 20 Sep 2018 17:42

Instrument :
MSVOA_N
ClientSampleId :
VN0920WBSD01

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.9	24.3	73.0
254	0.0	0.1	0.1#

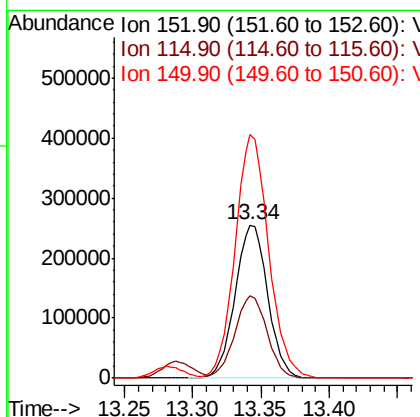
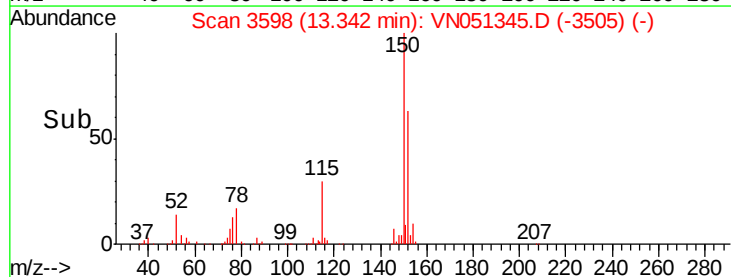
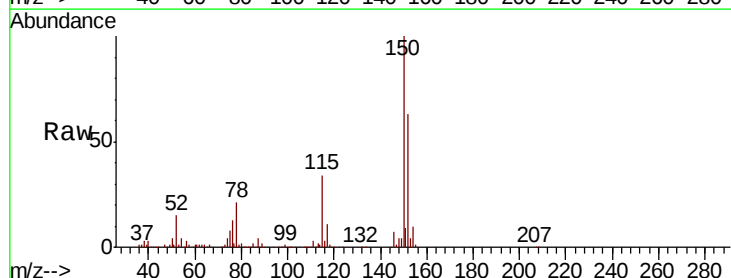
Manual Integrations
APPROVED

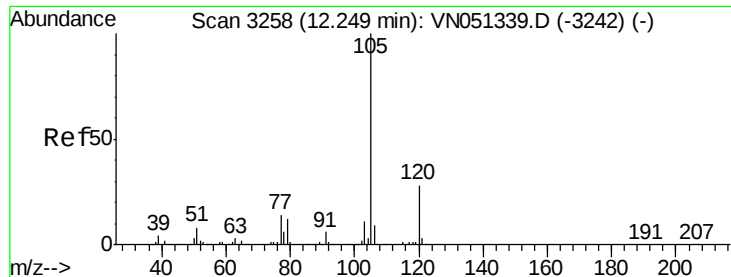
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9/24/2018 2:48:19 PM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN051345.D
Acq: 20 Sep 2018 17:42

Tgt Ion	Ratio	Lower	Upper
152	100		
115	53.5	26.9	80.7
150	163.9	0.0	345.0





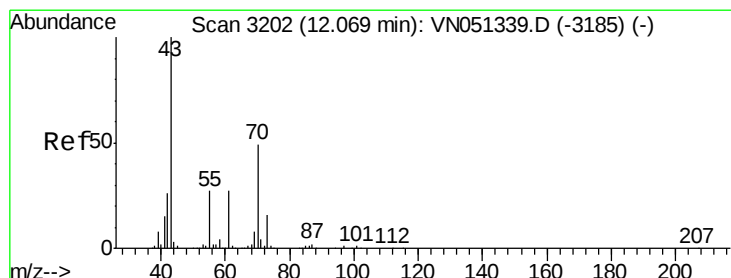
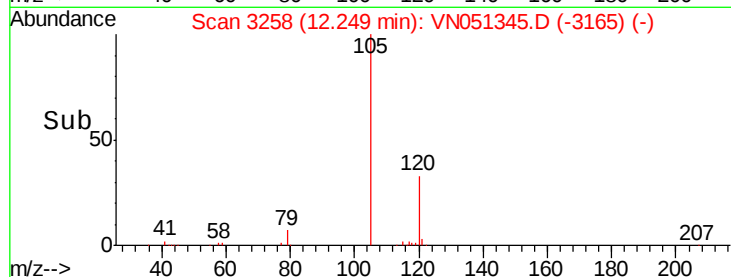
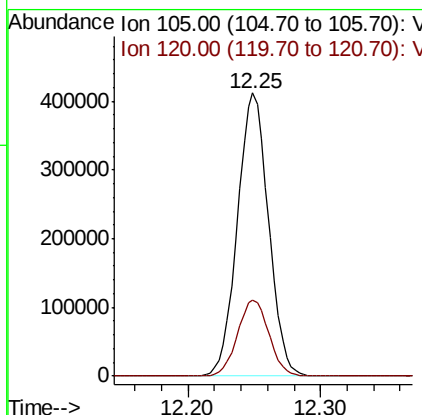
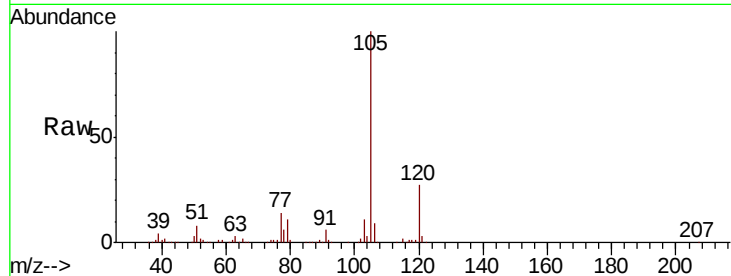
#73
Isopropylbenzene
Concen: 21.698 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. -0.00 min
Lab File: VN051345.D
Acq: 20 Sep 2018 17:42

Instrument :
MSVOA_N
ClientSampleId :
VN0920WBSD01

Tot Ion	Ratio	Lower	Upper
105	100		
120	27.1	13.9	41.6

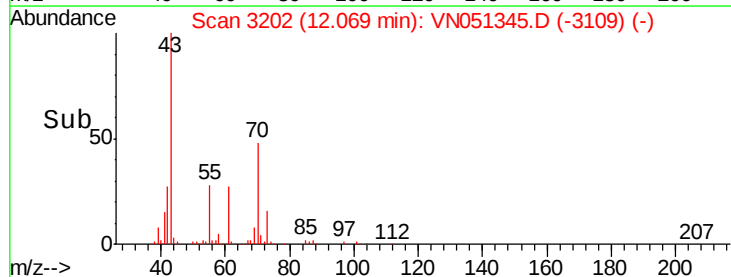
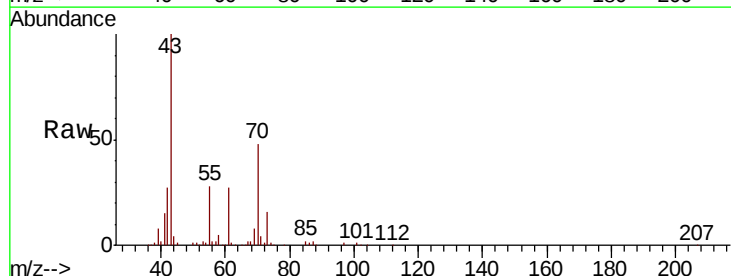
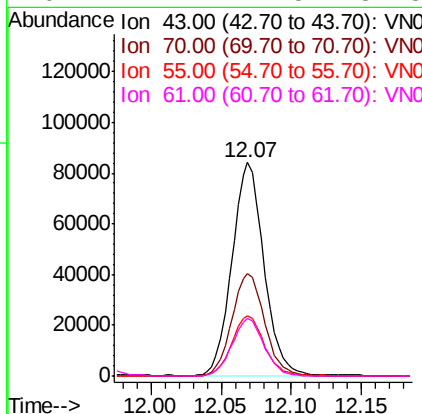
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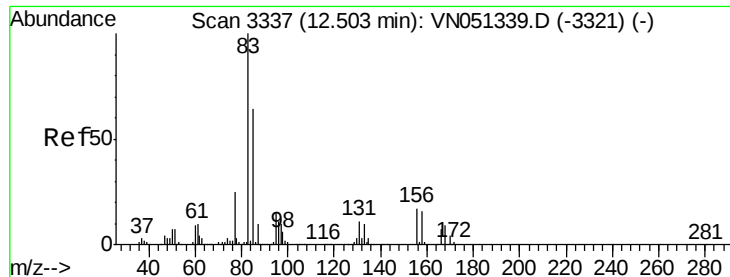
MMDadoda
9/24/2018 2:48:19 PM



#74
N-ethyl acetate
Concen: 20.082 ug/l
RT: 12.07 min Scan# 3202
Delta R.T. -0.00 min
Lab File: VN051345.D
Acq: 20 Sep 2018 17:42

Tgt Ion	Ratio	Lower	Upper
43	100		
70	49.5	39.5	59.3
55	29.1	22.6	34.0
61	27.1	21.5	32.3





#75

1,1,2,2-Tetrachloroethane

Concen: 20.186 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. -0.00 min

Lab File: VN051345.D

Acq: 20 Sep 2018 17:42

Instrument :

MSVOA_N

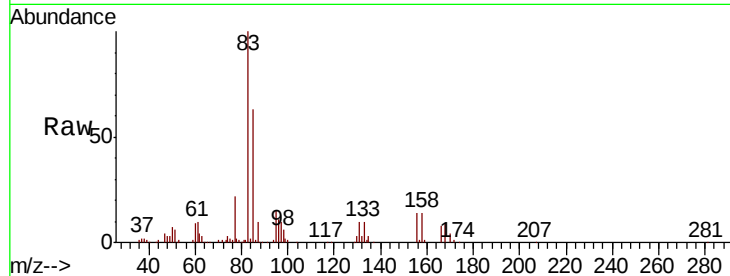
ClientSampleId :

VN0920WBSD01

Tot Ion:	83	Resp:	153754
Ion Ratio	Lower	Upper	
83	100		
131	10.8	5.5	16.7
85	63.9	32.3	96.9

Manual Integrations
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Abundance Ion 82.90 (82.60 to 83.60): VN051339.D (-3321) (-)

Ion 130.80 (130.50 to 131.50): VN051339.D (-3321) (-)

Ion 84.90 (84.60 to 85.60): VN051339.D (-3321) (-)

120000

100000

80000

60000

40000

20000

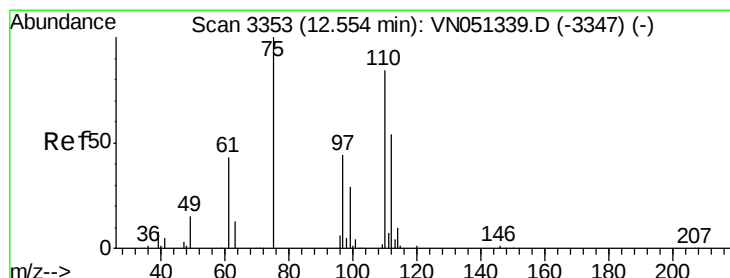
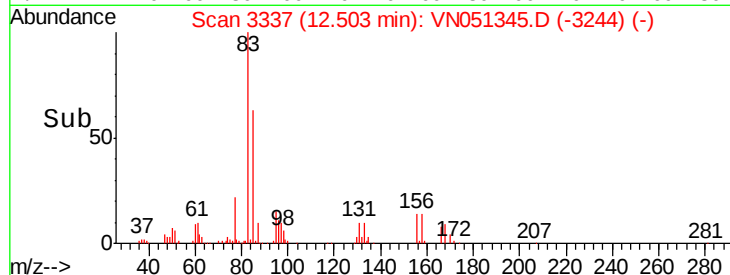
0

12.45

12.50

12.55

Time-->



#76

1,2,3-Trichloropropane

Concen: 19.606 ug/l m

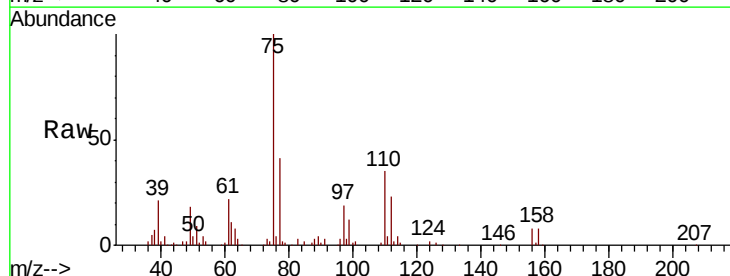
RT: 12.55 min Scan# 3353

Delta R.T. -0.00 min

Lab File: VN051345.D

Acq: 20 Sep 2018 17:42

Tgt Ion:	75	Resp:	119230
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0



Abundance Ion 74.90 (74.60 to 75.60): VN051339.D (-3347) (-)

Ion 77.00 (76.70 to 77.70): VN051339.D (-3347) (-)

150000

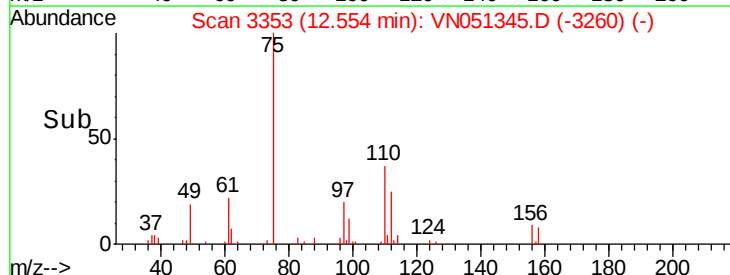
100000

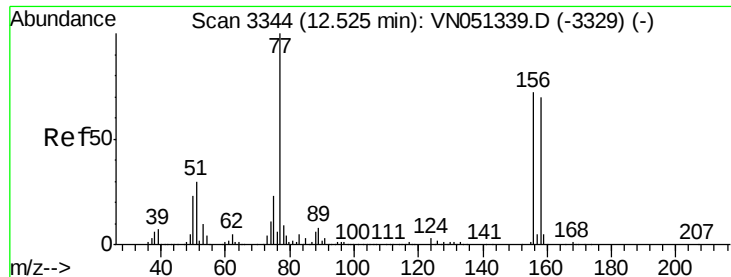
50000

0

12.55

Time-->





#77

Bromobenzene

Concen: 20.400 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN051345.D

Acq: 20 Sep 2018 17:42

Instrument :

MSVOA_N

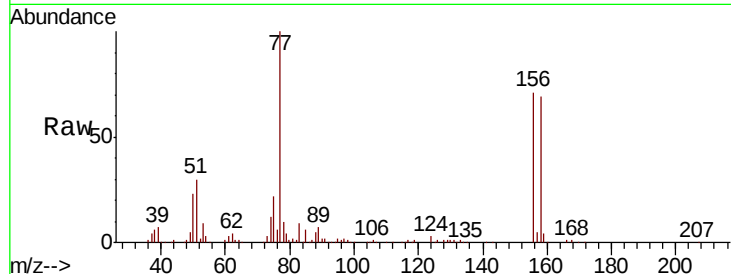
ClientSampleId :

VN0920WBSD01

Tot Ion:	156	Resp:	173960
Ion Ratio	Lower	Upper	
156	100		
77	164.8	80.8	242.4
158	97.6	48.8	146.3

Manual Integrations
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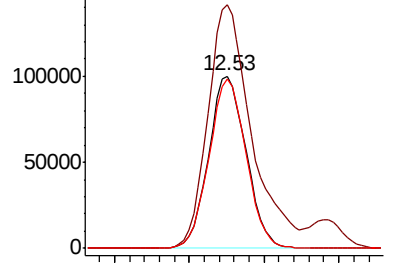
MMDadoda
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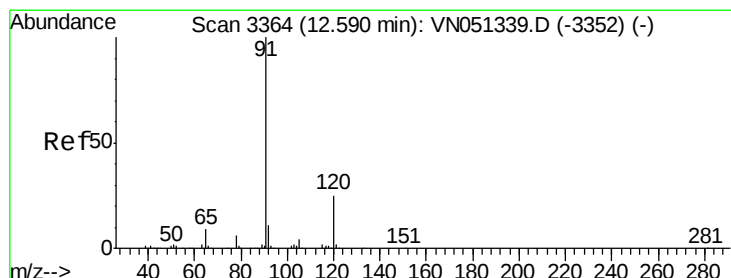
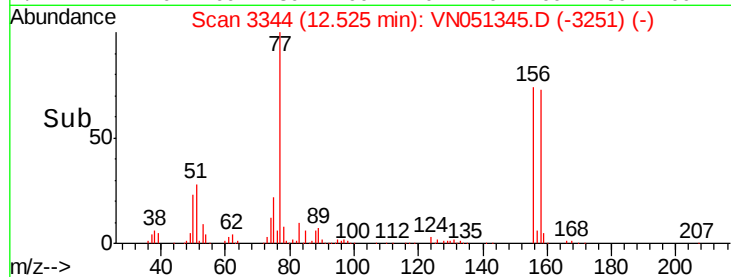
Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



Time-->



#78

n-propylbenzene

Concen: 21.624 ug/l

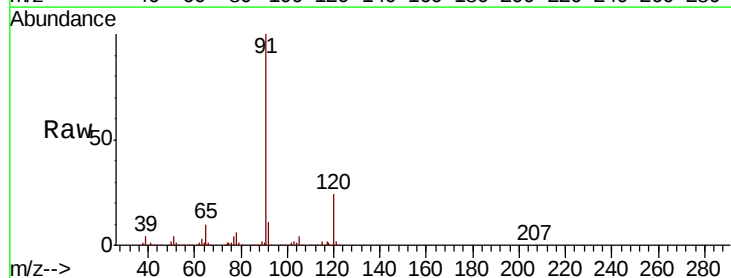
RT: 12.59 min Scan# 3364

Delta R.T. -0.00 min

Lab File: VN051345.D

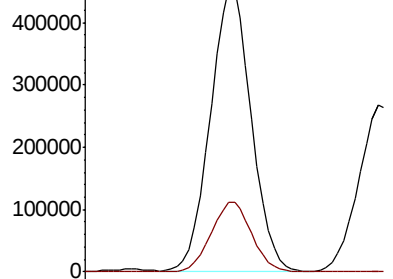
Acq: 20 Sep 2018 17:42

Tgt Ion:	91	Resp:	727580
Ion Ratio	Lower	Upper	
91	100		
120	24.5	12.4	37.2

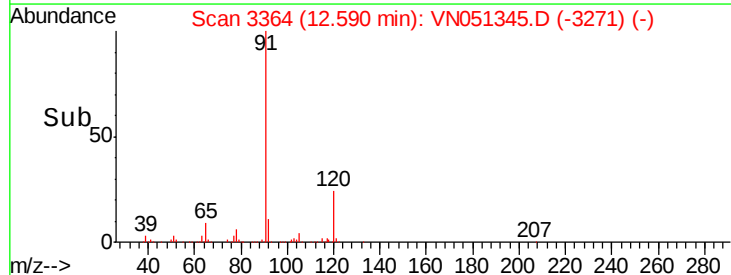


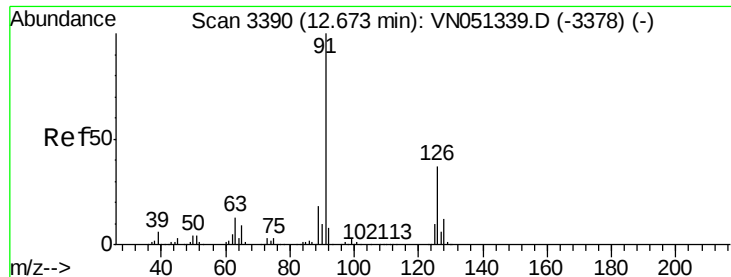
Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V



Time-->





#79

2-Chlorotoluene

Concen: 21.363 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN051345.D

Acq: 20 Sep 2018 17:42

Instrument :

MSVOA_N

ClientSampleId :

VN0920WBSD01

Tot Ion: 91 Resp: 442982

Ion Ratio Lower Upper

91 100

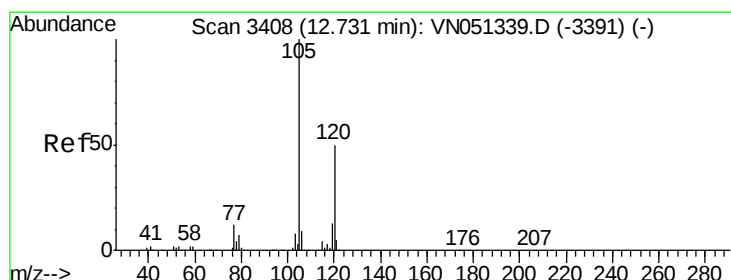
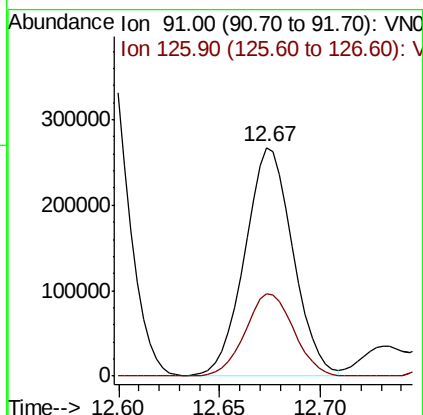
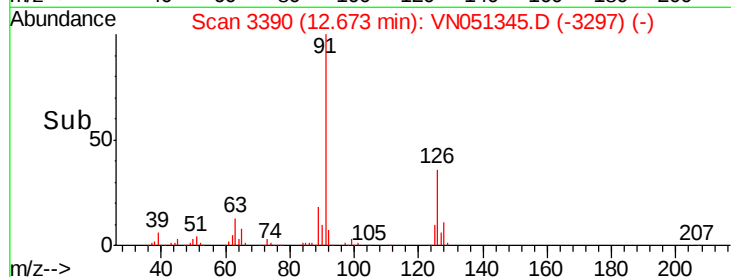
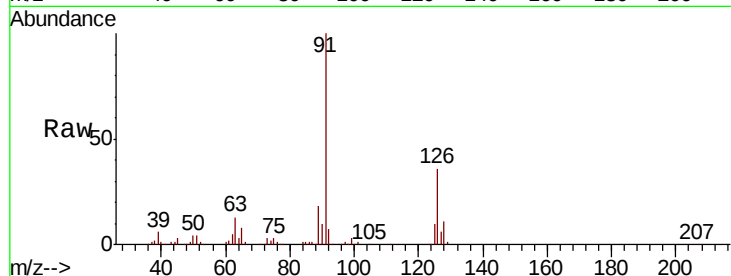
126 36.8 18.6 55.8

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 22.328 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN051345.D

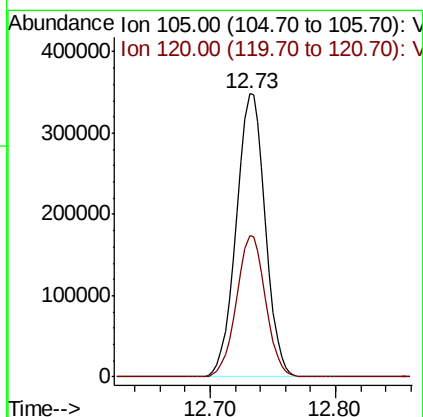
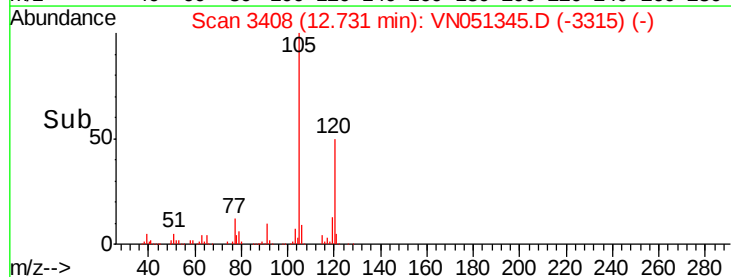
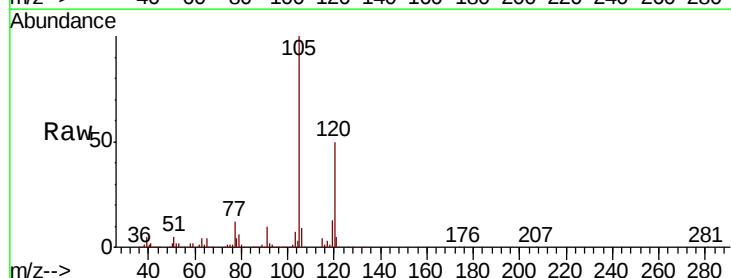
Acq: 20 Sep 2018 17:42

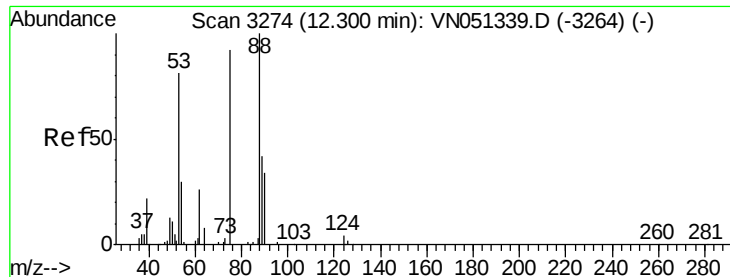
Tgt Ion: 105 Resp: 558661

Ion Ratio Lower Upper

105 100

120 49.9 25.2 75.6





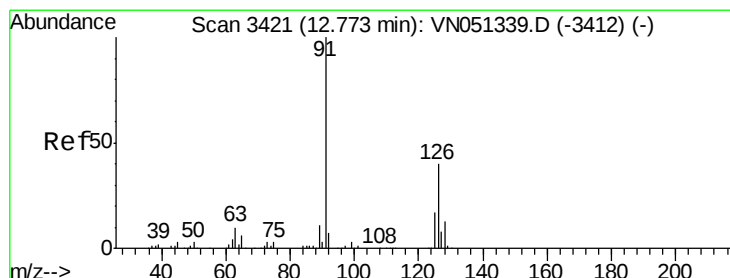
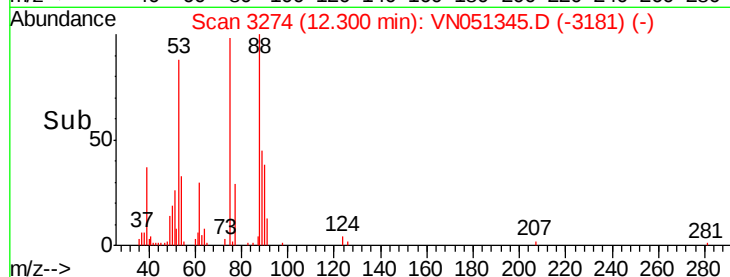
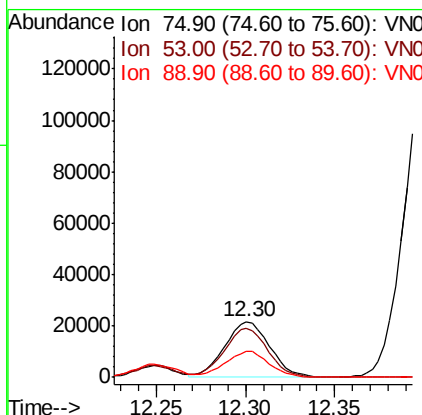
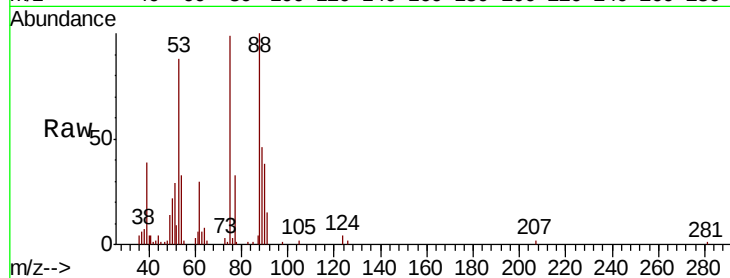
#81
trans-1,4-Dichloro-2-butene
Concen: 21.318 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. -0.00 min
Lab File: VN051345.D
Acq: 20 Sep 2018 17:42

Instrument :
MSVOA_N
ClientSampleId :
VN0920WBSD01

Tot Ion	Ratio	Lower	Upper
75	100		
53	87.0	69.9	104.9
89	46.3	37.9	56.9

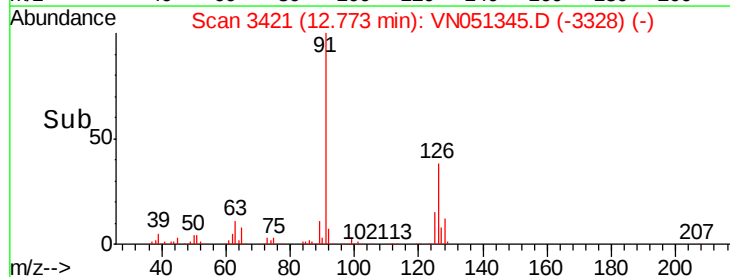
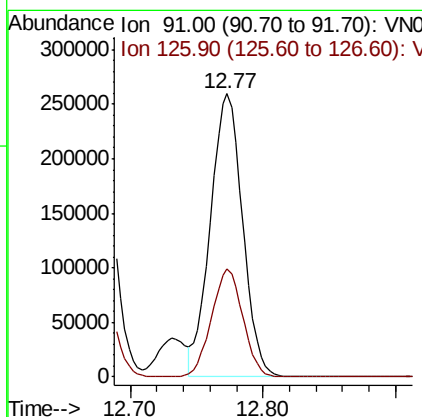
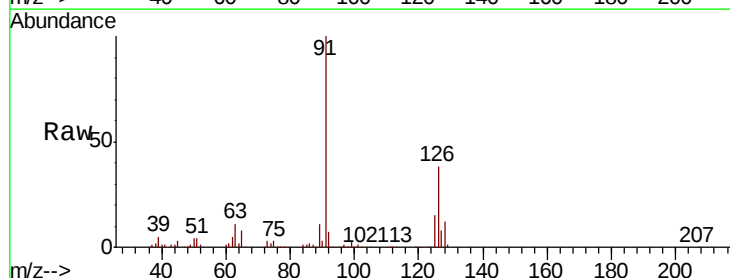
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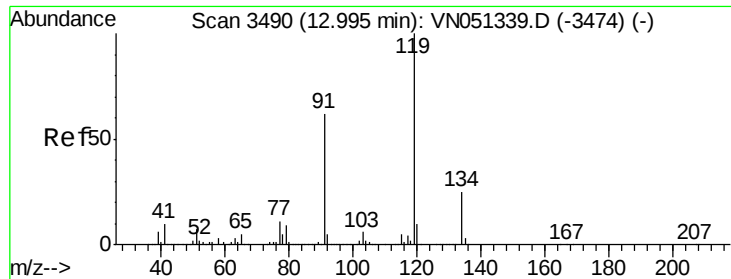
MMDadoda
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#82
4-Chlorotoluene
Concen: 21.665 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. -0.00 min
Lab File: VN051345.D
Acq: 20 Sep 2018 17:42

Tgt Ion	Ratio	Lower	Upper
91	100		
126	37.2	18.3	54.9





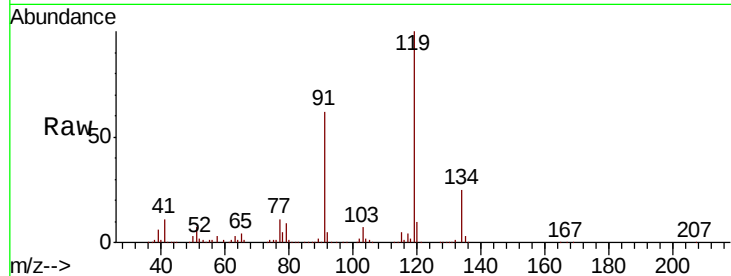
#83
 tert-Butylbenzene
 Concen: 21.868 ug/l
 RT: 12.99 min Scan# 3490
 Delta R.T. -0.00 min
 Lab File: VN051345.D
 Acq: 20 Sep 2018 17:42

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0920WBSD01

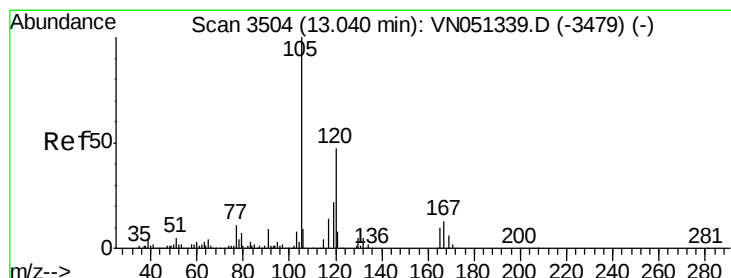
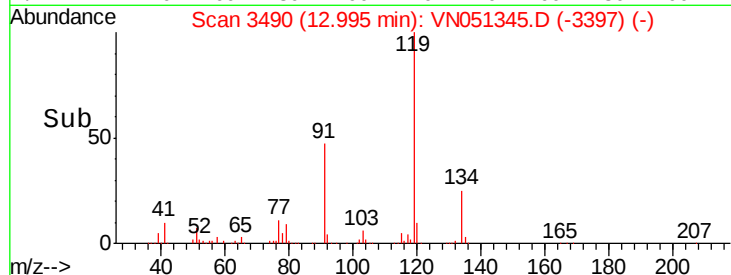
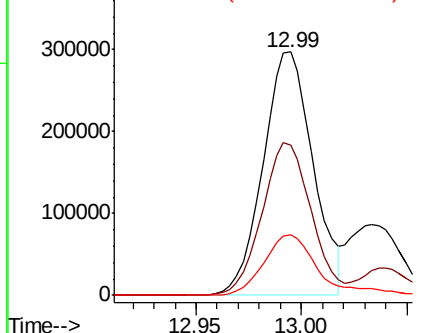
Tot Ion	Ratio	Lower	Upper
119	100		
91	61.5	30.6	91.8
134	27.3	12.6	37.6

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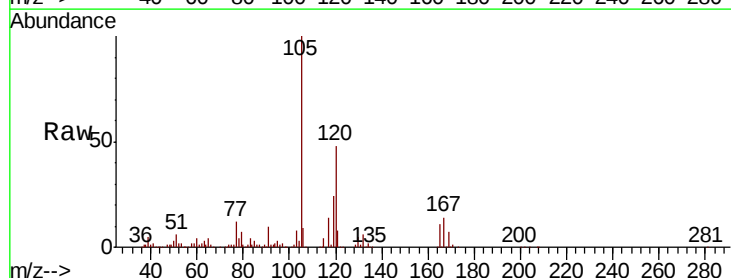


Abundance Ion 119.00 (118.70 to 119.70): V
 Ion 91.00 (90.70 to 91.70): V
 Ion 134.00 (133.70 to 134.70): V

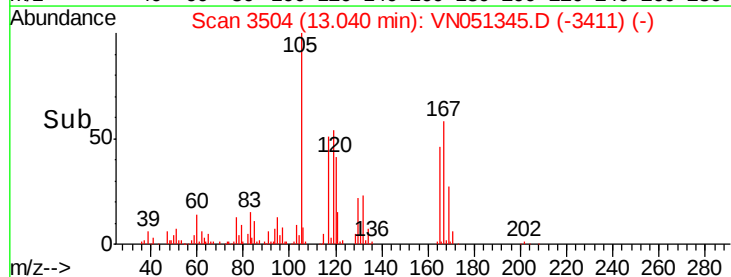
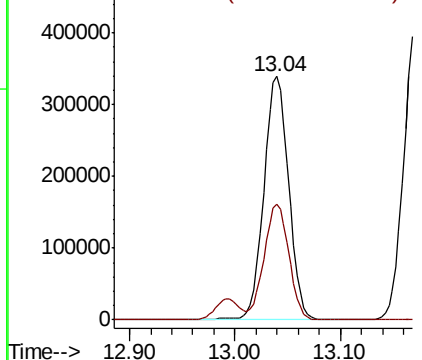


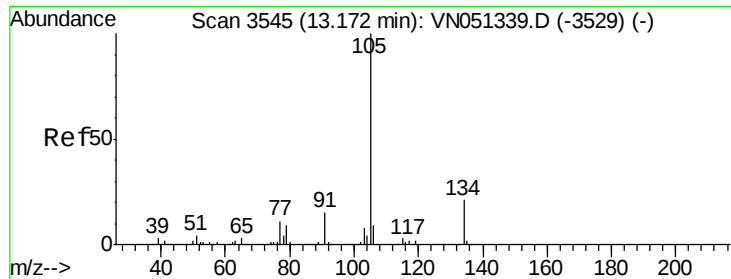
#84
 1,2,4-Trimethylbenzene
 Concen: 22.373 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. -0.00 min
 Lab File: VN051345.D
 Acq: 20 Sep 2018 17:42

Tgt Ion	Ratio	Lower	Upper
105	100		
120	47.5	23.5	70.6



Abundance Ion 105.00 (104.70 to 105.70): V
 Ion 120.00 (119.70 to 120.70): V





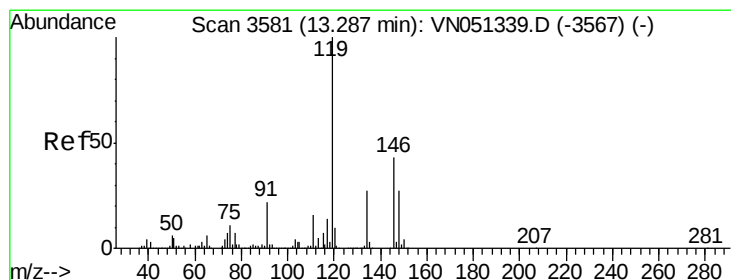
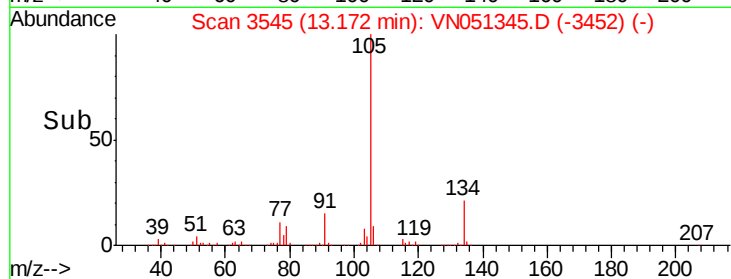
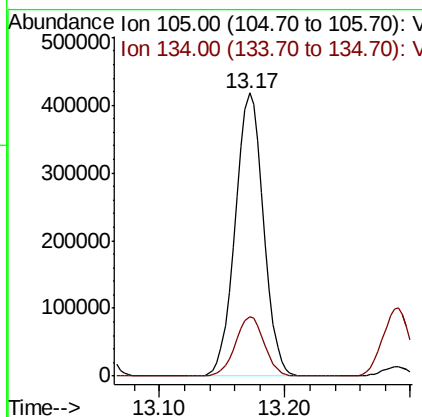
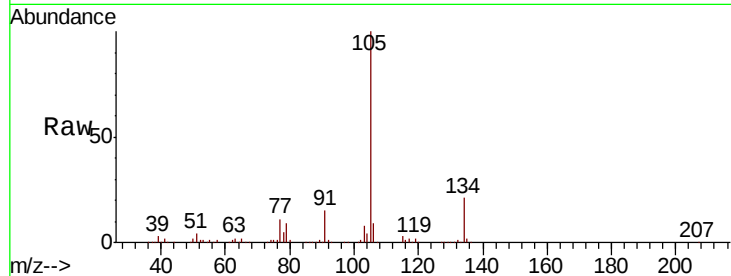
#85
 sec-Butylbenzene
 Concen: 21.929 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. -0.00 min
 Lab File: VN051345.D
 Acq: 20 Sep 2018 17:42

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0920WBSD01

Tot Ion	Ratio	Lower	Upper
105	100		
134	21.4	10.8	32.3

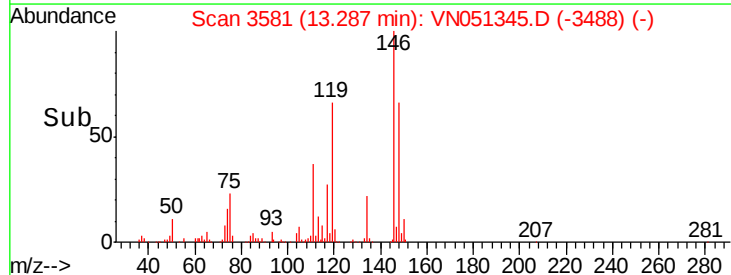
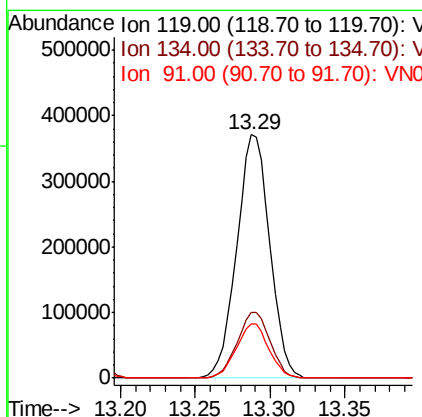
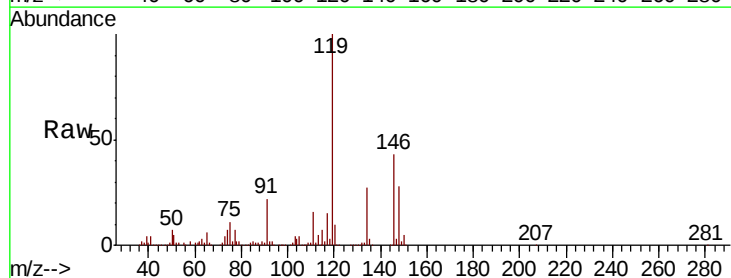
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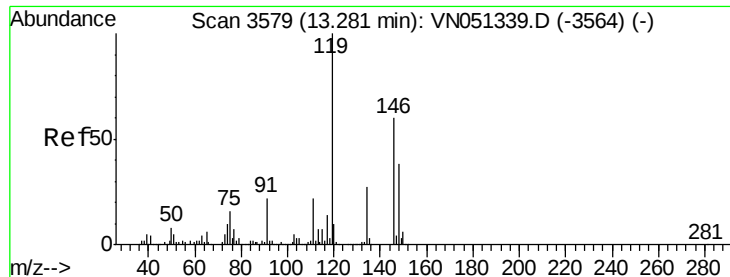
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#86
 p-Isopropyltoluene
 Concen: 21.966 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. -0.00 min
 Lab File: VN051345.D
 Acq: 20 Sep 2018 17:42

Tgt Ion	Ratio	Lower	Upper
119	100		
134	27.0	13.7	41.0
91	22.1	10.8	32.3





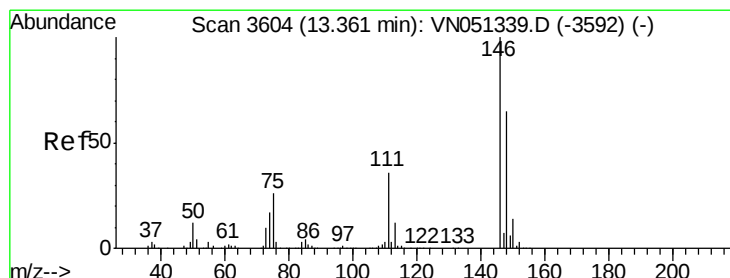
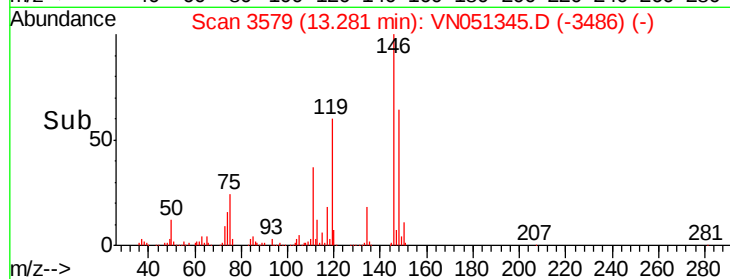
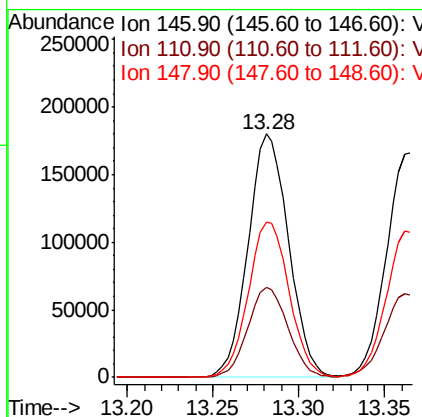
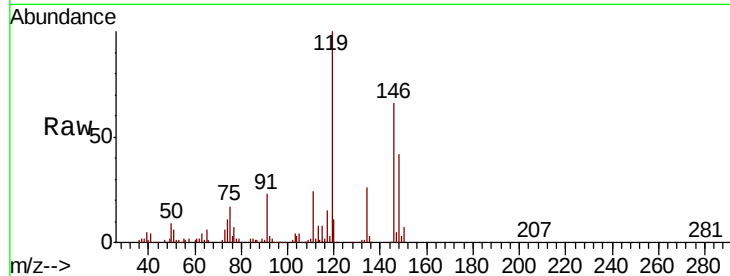
#87
 1,3-Dichlorobenzene
 Concen: 20.530 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. -0.00 min
 Lab File: VN051345.D
 Acq: 20 Sep 2018 17:42

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0920WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
146	100	294262		
111	36.7	18.6	55.8	
148	64.4	31.9	95.7	

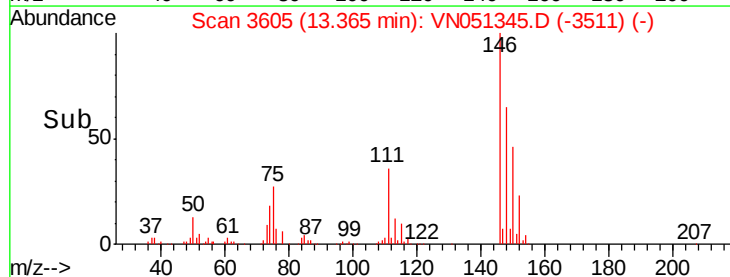
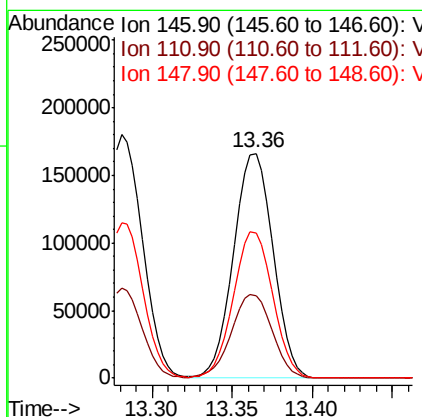
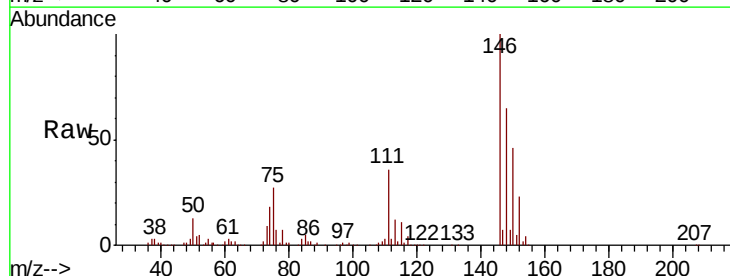
Manual Integrations
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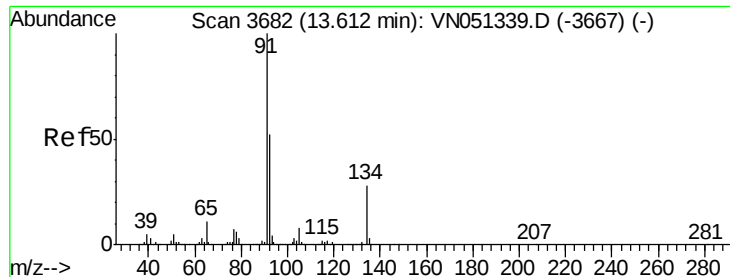
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 9/24/2018 2:48:19 PM



#88
 1,4-Dichlorobenzene
 Concen: 20.187 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN051345.D
 Acq: 20 Sep 2018 17:42

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	280488		
111	38.4	18.2	54.6	
148	65.0	32.5	97.4	





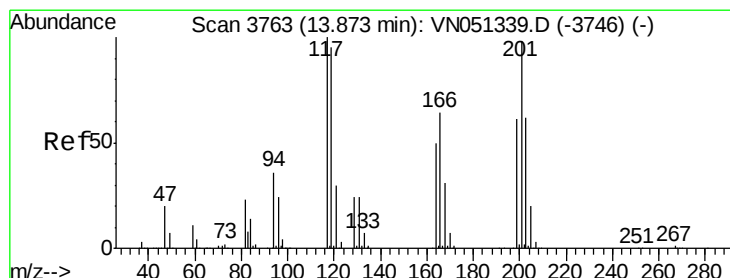
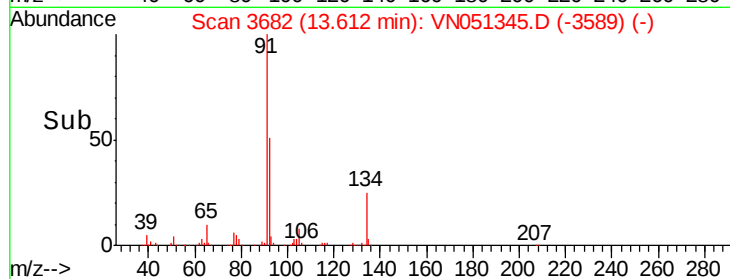
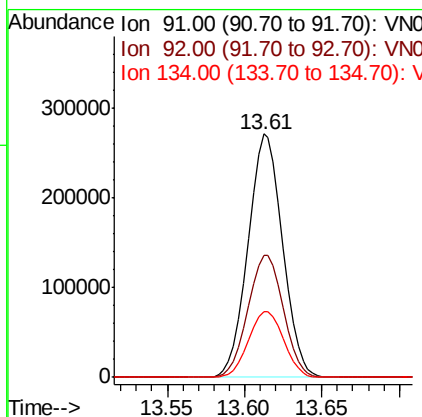
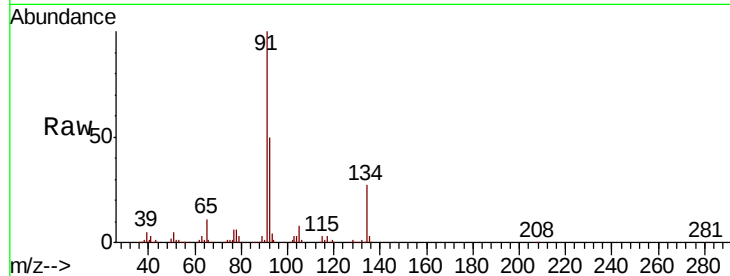
#89
n-Butylbenzene
Concen: 20.913 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. -0.00 min
Lab File: VN051345.D
Acq: 20 Sep 2018 17:42

Instrument :
MSVOA_N
ClientSampleId :
VN0920WBSD01

Tot Ion:	91	Resp:	421365
Ion Ratio	Lower	Upper	
91	100		
92	51.3	26.0	78.0
134	27.6	14.1	42.4

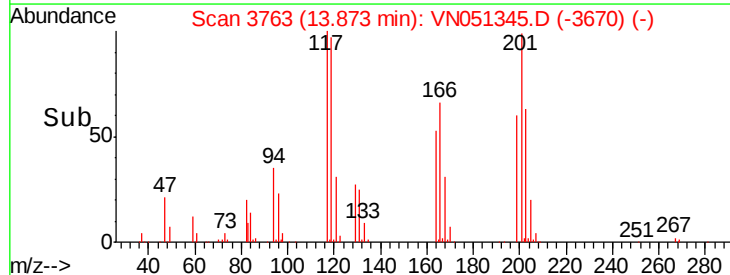
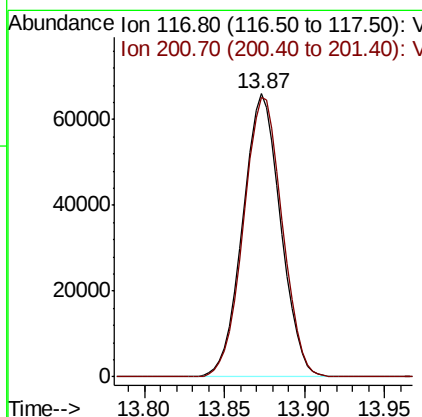
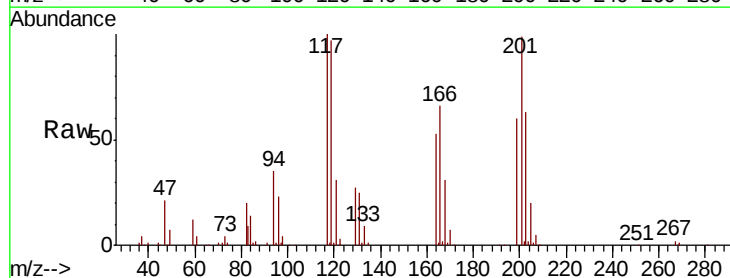
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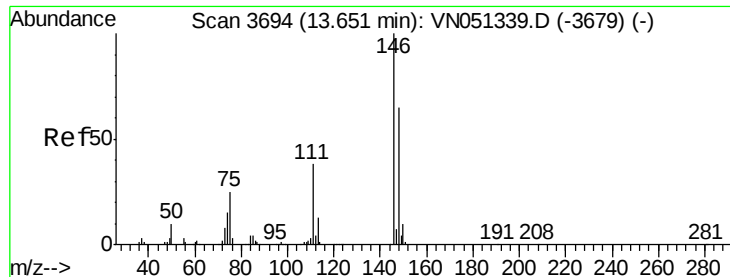
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#90
Hexachloroethane
Concen: 19.170 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. -0.00 min
Lab File: VN051345.D
Acq: 20 Sep 2018 17:42

Tgt Ion:	117	Resp:	106406
Ion Ratio	Lower	Upper	
117	100		
201	100.8	49.5	148.3





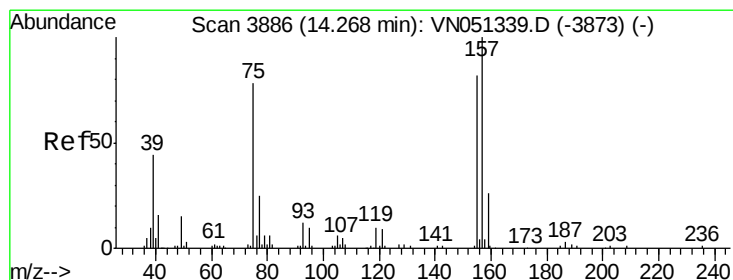
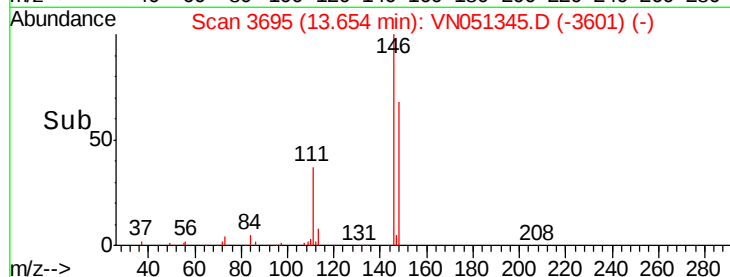
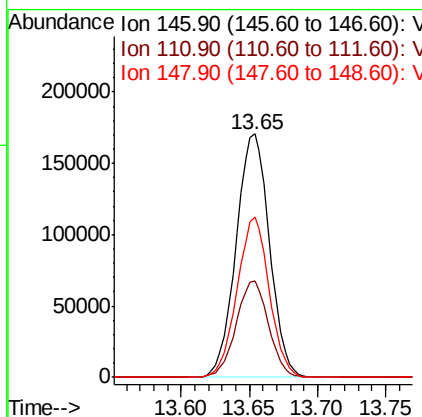
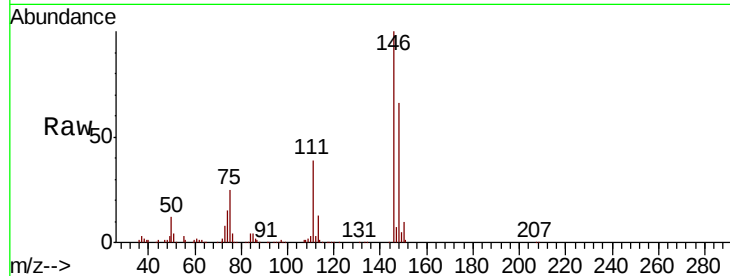
#91
 1,2-Dichlorobenzene
 Concen: 20.887 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN051345.D
 Acq: 20 Sep 2018 17:42

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0920WBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.5	19.3	57.8
148	63.5	32.9	98.7

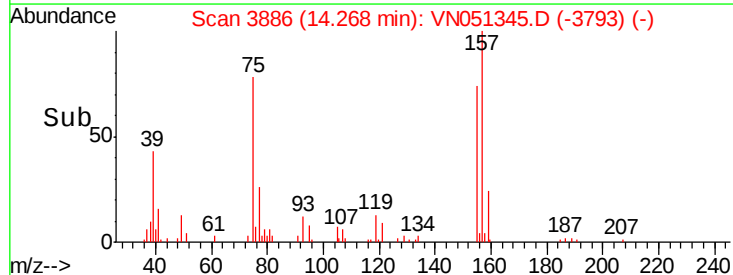
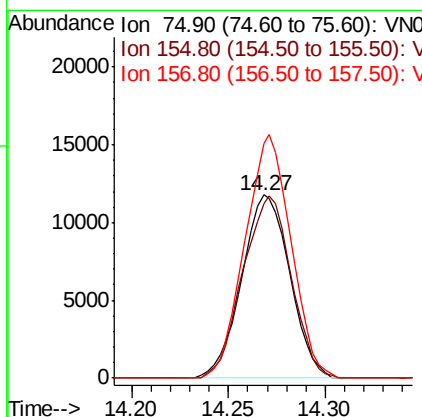
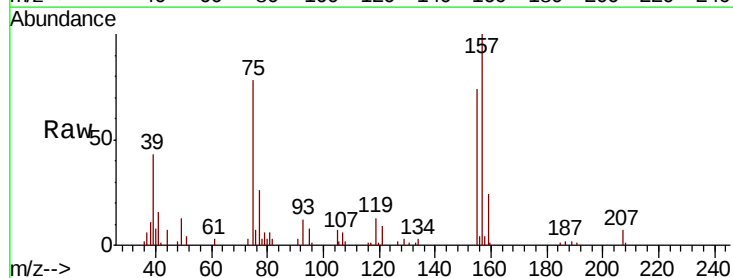
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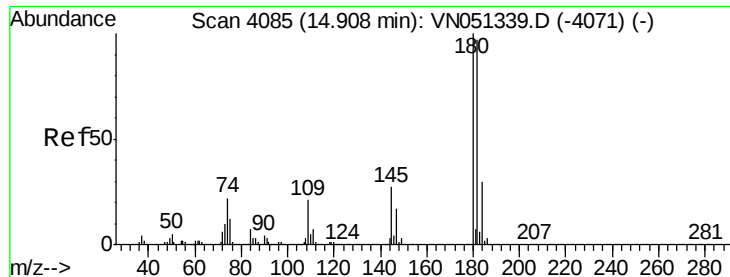
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 20.142 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. -0.00 min
 Lab File: VN051345.D
 Acq: 20 Sep 2018 17:42

Tgt Ion	Ratio	Lower	Upper
75	100		
155	100.0	51.4	154.2
157	127.4	65.4	196.2





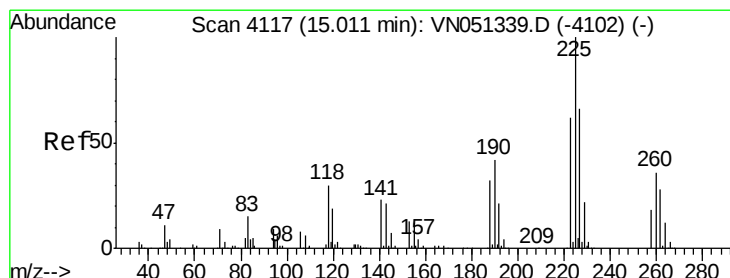
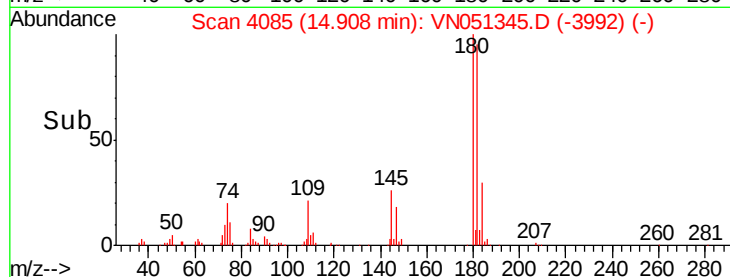
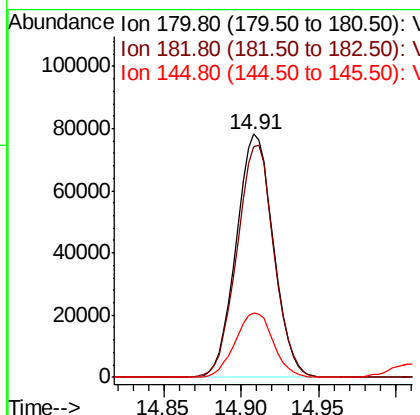
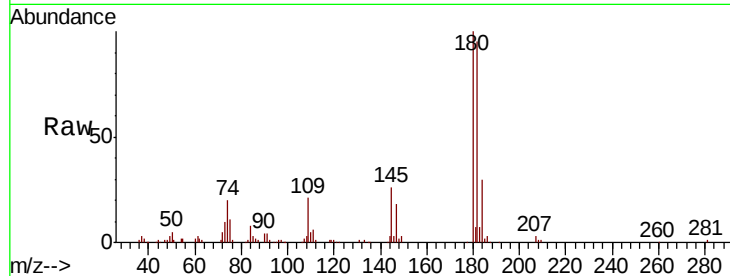
#93
 1,2,4-Trichlorobenzene
 Concen: 20.560 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. -0.00 min
 Lab File: VN051345.D
 Acq: 20 Sep 2018 17:42

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0920WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	130502		
182	95.4	48.4	145.2	
145	27.1	13.7	41.1	

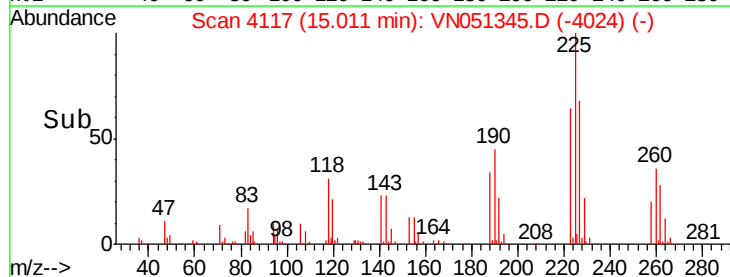
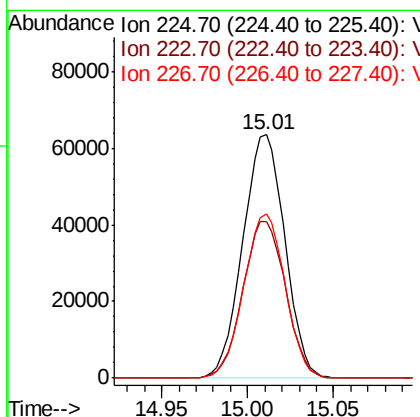
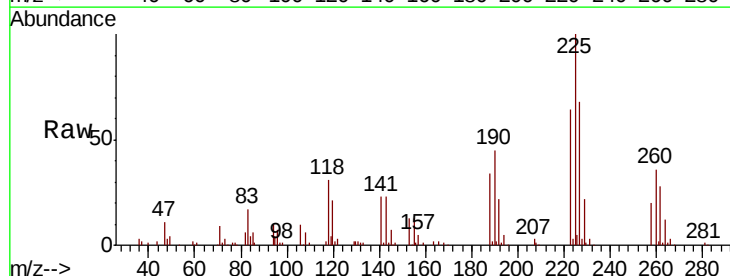
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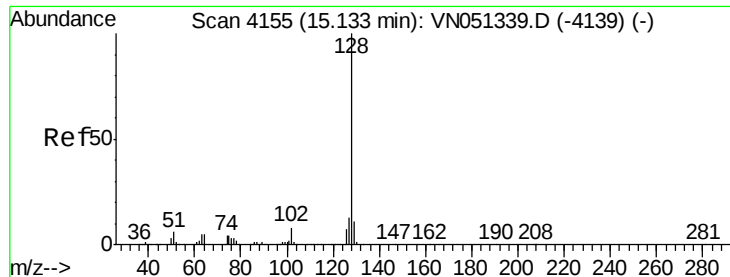
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#94
 Hexachlorobutadiene
 Concen: 20.102 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. -0.00 min
 Lab File: VN051345.D
 Acq: 20 Sep 2018 17:42

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	108021		
223	65.3	31.2	93.6	
227	66.5	32.8	98.4	





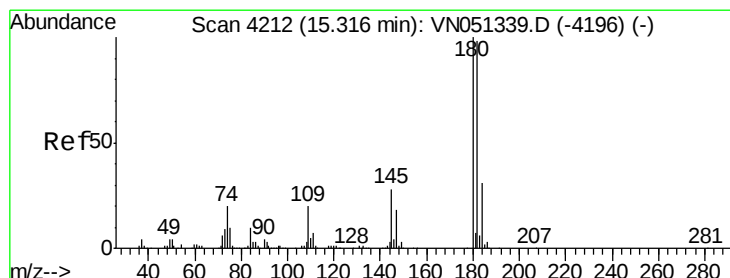
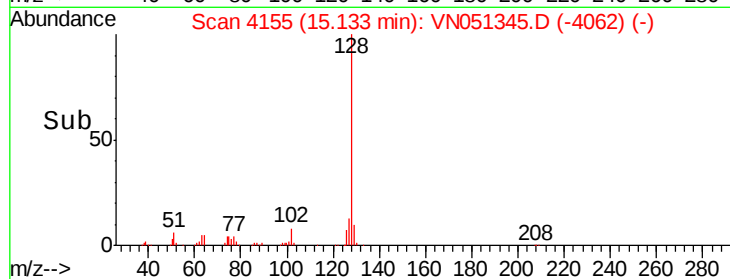
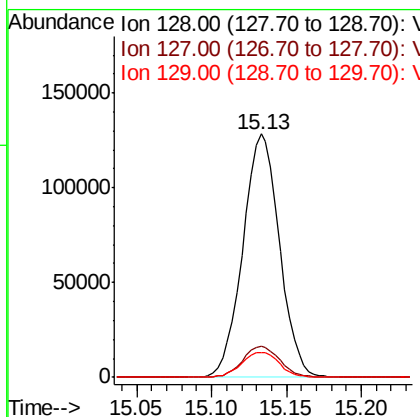
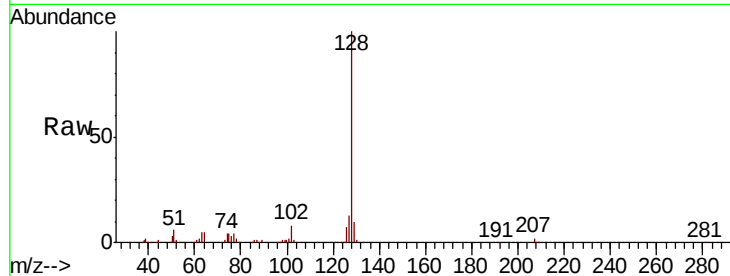
#95
Naphthalene
Concen: 19.582 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. -0.00 min
Lab File: VN051345.D
Acq: 20 Sep 2018 17:42

Instrument :
MSVOA_N
ClientSampleId :
VN0920WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
128	100	219104		
127	13.0	10.3	15.5	
129	10.6	8.6	13.0	

Manual Integrations
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#96
1,2,3-Trichlorobenzene
Concen: 20.960 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. -0.00 min
Lab File: VN051345.D
Acq: 20 Sep 2018 17:42

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	132368		
182	97.6	48.1	144.3	
145	29.8	14.3	42.9	

