

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN103018\
 Data File : VN052057.D
 Acq On : 30 Oct 2018 10:18
 Operator : MD\SY
 Sample : VSTDIC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Manual Integrations
 APPROVED

MMDadoda
 11/1/2018 11:47:51 AM

Quant Time: Oct 31 02:37:46 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N103018W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 31 02:21:45 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	231295	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	444199	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	409598	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	164786	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	75881	20.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	41.68%	
35) Dibromofluoromethane	7.59	113	54889	20.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	41.24%	
50) Toluene-d8	10.09	98	218156	20.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	40.30%	
62) 4-Bromofluorobenzene	12.40	95	79557	19.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	39.60%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	59234	22.201	ug/l	99
3) Chloromethane	2.06	50	77179	23.050	ug/l	97
4) Vinyl Chloride	2.19	62	84903	22.925	ug/l	96
5) Bromomethane	2.57	94	57518	19.252	ug/l	100
6) Chloroethane	2.71	64	52740	21.964	ug/l	91
7) Trichlorofluoromethane	3.02	101	87176	20.870	ug/l	98
8) Diethyl Ether	3.41	74	33237	21.383	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.77	101	52163	21.909	ug/l	97
10) Methyl Iodide	3.96	142	65741	19.249	ug/l	99
11) Tert butyl alcohol	4.77	59	20412	123.589	ug/l	98
12) 1,1-Dichloroethene	3.74	96	50733	22.405	ug/l	98
13) Acrolein	3.61	56	18554	104.735	ug/l	92
14) Allyl chloride	4.33	41	96253	20.842	ug/l	94
15) Acrylonitrile	4.98	53	106962	108.600	ug/l	99
16) Acetone	3.82	43	81057	99.865	ug/l	100
17) Carbon Disulfide	4.06	76	152048	20.630	ug/l	98
18) Methyl Acetate	4.32	43	49385	19.584	ug/l	100
19) Methyl tert-butyl Ether	5.05	73	161133	21.281	ug/l	92
20) Methylene Chloride	4.55	84	61057	21.870	ug/l	96
21) trans-1,2-Dichloroethene	5.04	96	55104	21.446	ug/l	85
22) Diisopropyl ether	5.95	45	220937	21.433	ug/l	95
23) Vinyl Acetate	5.90	43	766700	112.448	ug/l	100
24) 1,1-Dichloroethane	5.85	63	119883	21.122	ug/l	99
25) 2-Butanone	6.83	43	134584	117.416	ug/l	98
26) 2,2-Dichloropropane	6.83	77	93958	20.280	ug/l	97
27) cis-1,2-Dichloroethene	6.83	96	67516	21.200	ug/l	96
28) Bromochloromethane	7.20	49	56764	18.265	ug/l	98
29) Tetrahydrofuran	7.21	42	86319	105.552	ug/l	99
30) Chloroform	7.37	83	117994	20.369	ug/l	99
31) Cyclohexane	7.66	56	122299	13.579	ug/l	98
32) 1,1,1-Trichloroethane	7.57	97	97580	22.165	ug/l	98
36) 1,1-Dichloropropene	7.79	75	91657	20.780	ug/l	99
37) Ethyl Acetate	6.93	43	59687	22.698	ug/l	98
38) Carbon Tetrachloride	7.78	117	78288	21.375	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	108863	20.678	ug/l	99
40) Benzene	8.04	78	271319	21.748	ug/l	99
41) Methacrylonitrile	7.17	41	28341	28.081	ug/l #	84
42) 1,2-Dichloroethane	8.12	62	96118	19.409	ug/l	100
43) Isopropyl Acetate	8.17	43	110239	21.655	ug/l	98
44) Trichloroethene	8.84	130	58529	21.310	ug/l	98
45) 1,2-Dichloropropane	9.12	63	77413	20.505	ug/l	100
46) Dibromomethane	9.21	93	42265	21.939	ug/l	96
47) Bromodichloromethane	9.40	83	88404	21.981	ug/l	97
48) Methyl methacrylate	9.20	41	55645	21.626	ug/l	99
49) 1,4-Dioxane	9.20	88	9918	776.499	ug/l	93
51) 4-Methyl-2-Pentanone	9.99	43	308745	111.878	ug/l	100
52) Toluene	10.16	92	160934	21.484	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	91031	21.140	ug/l	96
54) cis-1,3-Dichloropropene	9.84	75	105694	22.638	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	56629	21.132	ug/l	96
56) Ethyl methacrylate	10.43	69	79509	20.278	ug/l	95
57) 1,3-Dichloropropane	10.71	76	105634	21.426	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	219694	109.371	ug/l	96
59) 2-Hexanone	10.75	43	213501	107.723	ug/l	99
60) Dibromochloromethane	10.90	129	54720	21.477	ug/l	97
61) 1,2-Dibromoethane	11.00	107	55785	20.974	ug/l	98
64) Tetrachloroethene	10.63	164	48565	20.628	ug/l	96
65) Chlorobenzene	11.43	112	174879	20.822	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	56521	22.062	ug/l	97
67) Ethyl Benzene	11.51	91	316856	21.537	ug/l	100
68) m/p-Xylenes	11.62	106	228517	44.752	ug/l	99
69) o-Xylene	11.95	106	113183	22.723	ug/l	97
70) Styrene	11.96	104	180381	21.964	ug/l	97
71) Bromoform	12.12	173	29865	21.902	ug/l #	96
73) Isopropylbenzene	12.25	105	299504	23.067	ug/l	100
74) N-amyl acetate	12.07	43	100132	20.293	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	70825	21.640	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	65698m	23.547	ug/l	
77) Bromobenzene	12.53	156	62236	22.109	ug/l	99
78) n-propylbenzene	12.59	91	355338	21.773	ug/l	100
79) 2-Chlorotoluene	12.67	91	210500	22.968	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	239541	22.201	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	17636	20.626	ug/l	92
82) 4-Chlorotoluene	12.77	91	218315	23.540	ug/l	98
83) tert-Butylbenzene	12.99	119	202033	22.004	ug/l	98
84) 1,2,4-Trimethylbenzene	13.04	105	243512	23.086	ug/l	99
85) sec-Butylbenzene	13.17	105	289439	22.286	ug/l	99
86) p-Isopropyltoluene	13.29	119	237125	22.510	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	111084	21.587	ug/l	97
88) 1,4-Dichlorobenzene	13.36	146	107205	20.469	ug/l	98
89) n-Butylbenzene	13.61	91	218214	21.441	ug/l	99
90) Hexachloroethane	13.87	117	37746	20.555	ug/l	98
91) 1,2-Dichlorobenzene	13.65	146	104948	22.249	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.27	75	10013	33.463	ug/l	93

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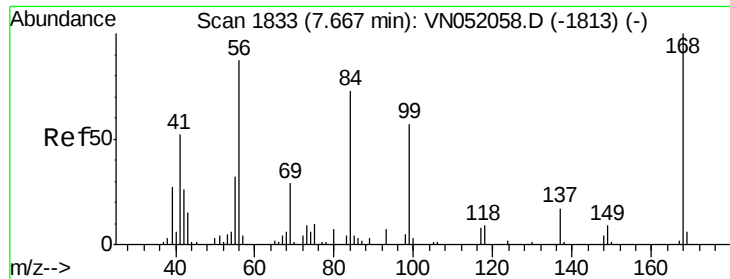
Manual Integrations
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MMDadoda
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	38952	22.873	ug/l	93
94) Hexachlorobutadiene	15.01	225	20526	20.580	ug/l	98
95) Naphthalene	15.14	128	91316	20.228	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	32393	20.947	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VN052057.D

Acq: 30 Oct 2018 10:18

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion:168 Resp: 231295

Ion Ratio Lower Upper

168 100

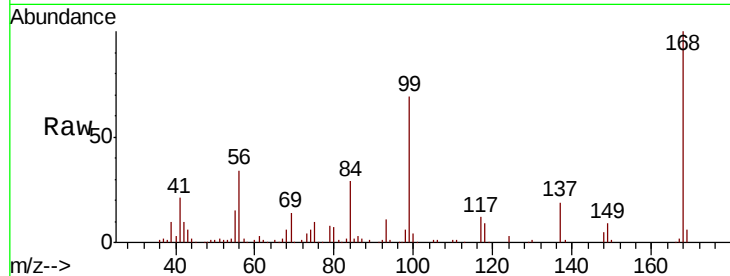
99 69.1 56.6 85.0

Manual Integrations

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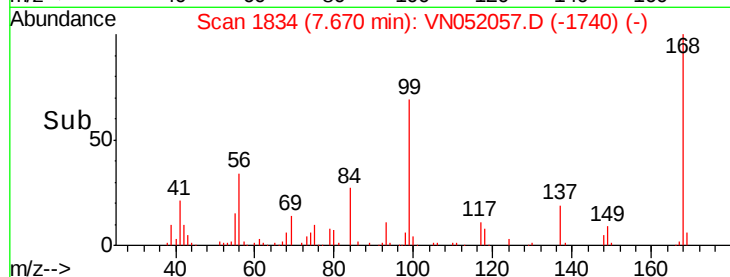


Abundance Ion 167.90 (167.60 to 168.60): V

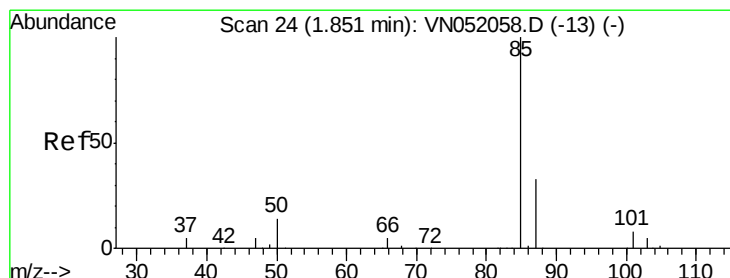
Ion 98.90 (98.60 to 99.60): VNO

7.67

Time-->



Time-->



#2

Dichlorodifluoromethane

Concen: 22.201 ug/l

RT: 1.85 min Scan# 24

Delta R.T. -0.00 min

Lab File: VN052057.D

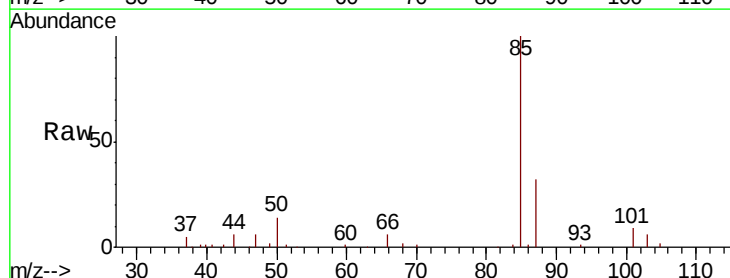
Acq: 30 Oct 2018 10:18

Tgt Ion: 85 Resp: 59234

Ion Ratio Lower Upper

85 100

87 31.9 16.3 48.8

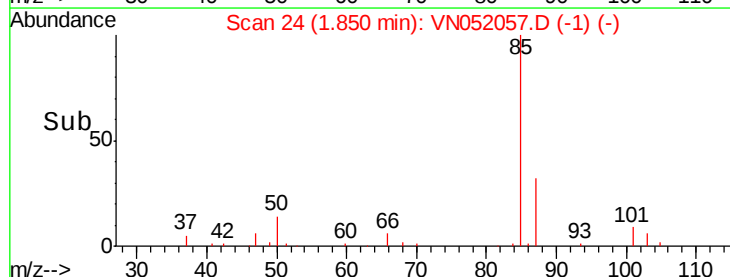


Abundance Ion 84.90 (84.60 to 85.60): VNO

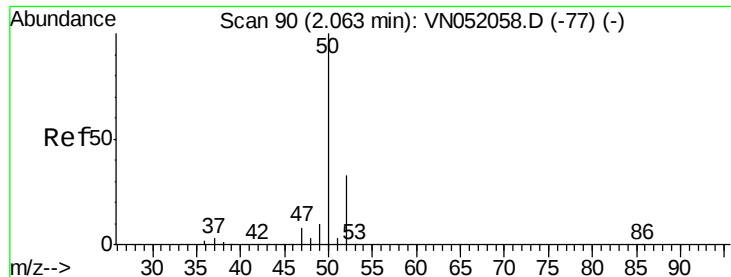
Ion 86.90 (86.60 to 87.60): VNO

1.85

Time-->



Time-->



#3

Chloromethane

Concen: 23.050 ug/l

RT: 2.06 min Scan# 90

Delta R.T. -0.00 min

Lab File: VN052057.D

Acq: 30 Oct 2018 10:18

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 50 Resp: 77179

Ion Ratio Lower Upper

50 100

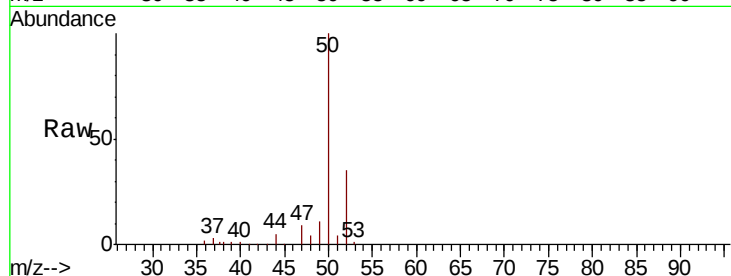
52 35.0 26.6 39.8

Manual Integrations

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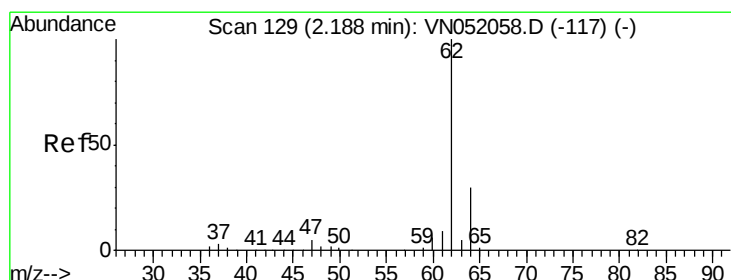
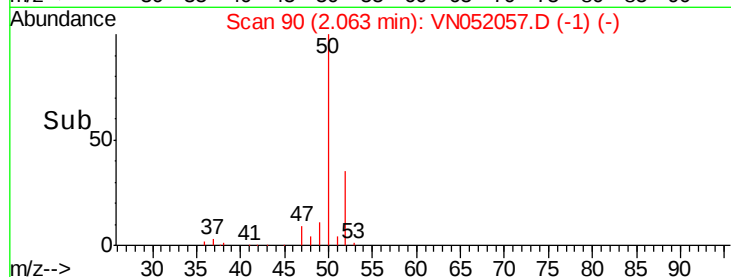
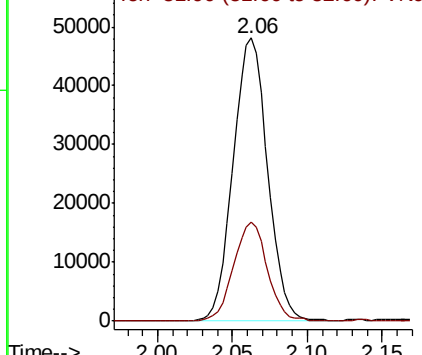
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Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO



#4

Vinyl Chloride

Concen: 22.925 ug/l

RT: 2.19 min Scan# 130

Delta R.T. 0.00 min

Lab File: VN052057.D

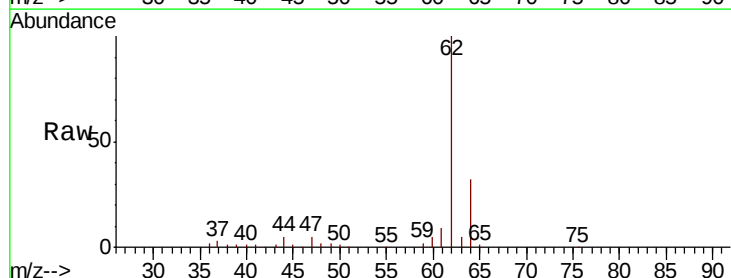
Acq: 30 Oct 2018 10:18

Tgt Ion: 62 Resp: 84903

Ion Ratio Lower Upper

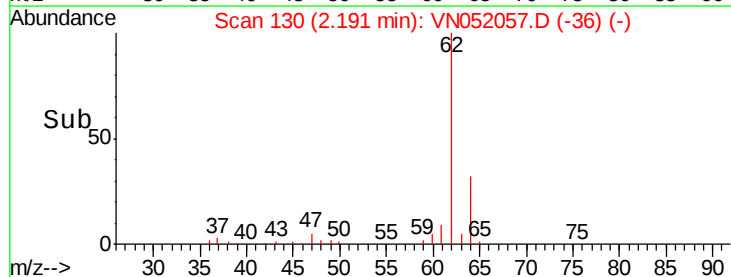
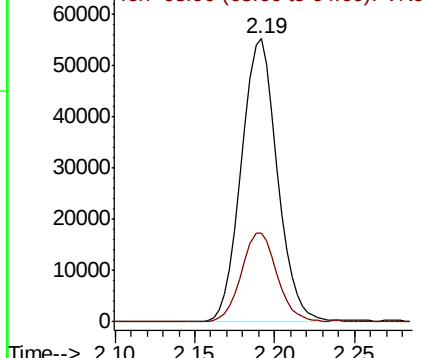
62 100

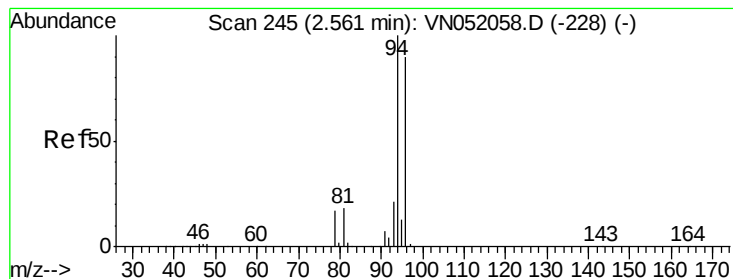
64 31.6 23.7 35.5



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO





#5

Bromomethane

Concen: 19.252 ug/l

RT: 2.57 min Scan# 249

Delta R.T. 0.01 min

Lab File: VN052057.D

Acq: 30 Oct 2018 10:18

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 94 Resp: 57518

Ion Ratio Lower Upper

94 100

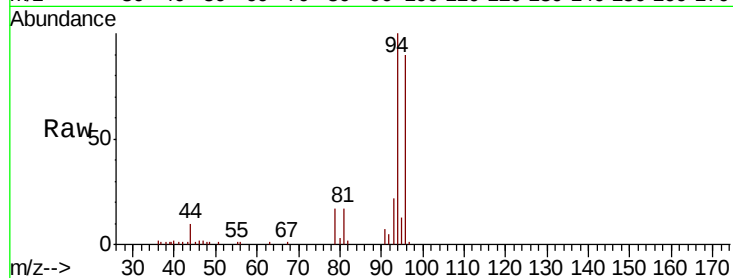
96 89.6 71.8 107.6

Manual Integrations

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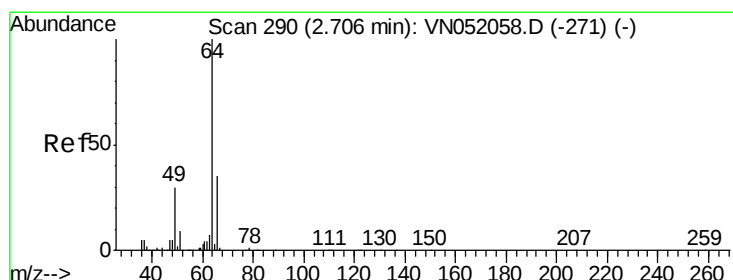
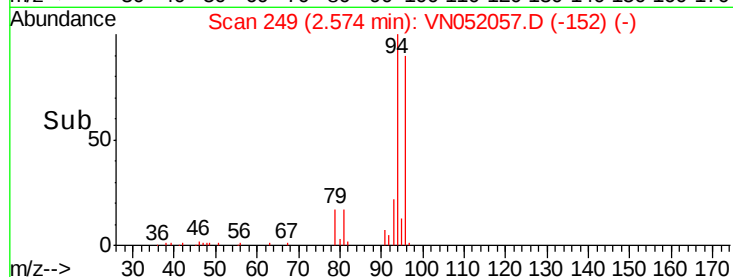
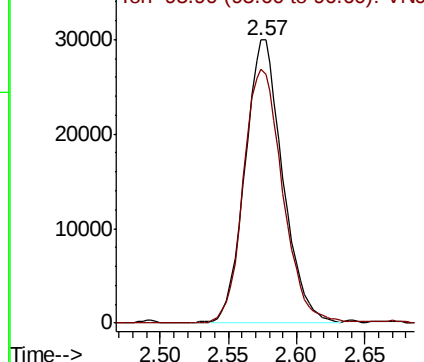
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Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO



#6

Chloroethane

Concen: 21.964 ug/l

RT: 2.71 min Scan# 291

Delta R.T. 0.00 min

Lab File: VN052057.D

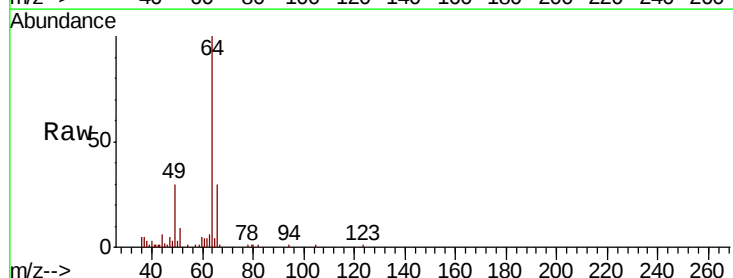
Acq: 30 Oct 2018 10:18

Tgt Ion: 64 Resp: 52740

Ion Ratio Lower Upper

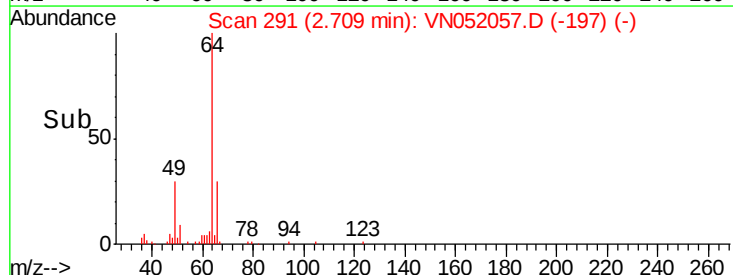
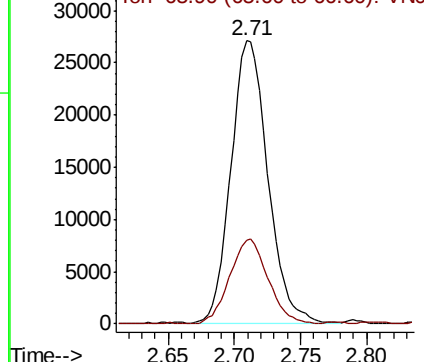
64 100

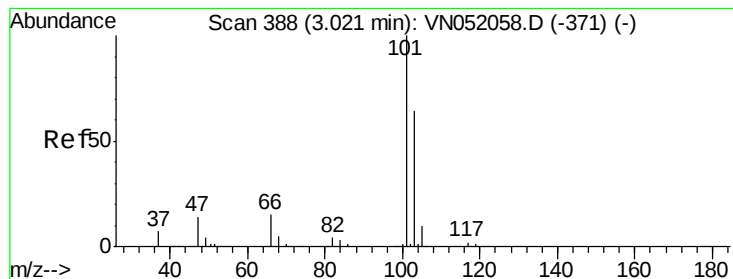
66 29.6 27.9 41.9



Abundance Ion 63.90 (63.60 to 64.60): VNO

Ion 65.90 (65.60 to 66.60): VNO





#7

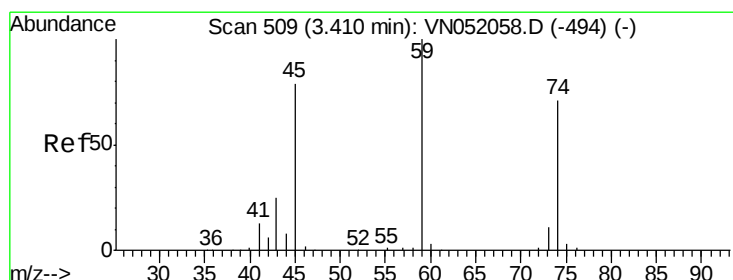
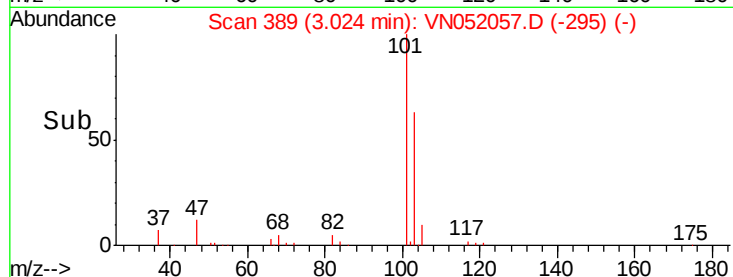
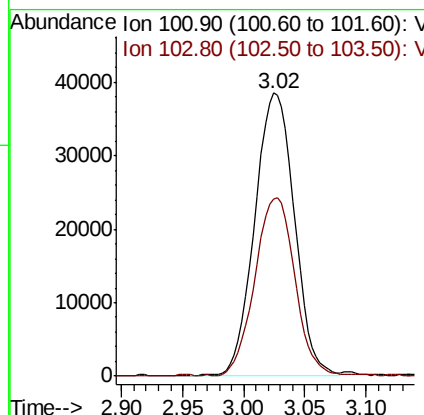
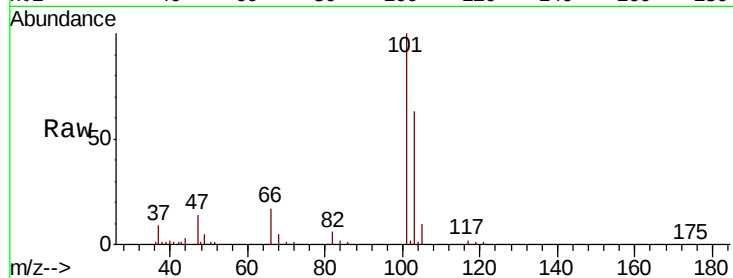
Trichlorofluoromethane
Concen: 20.870 ug/l
RT: 3.02 min Scan# 389
Delta R.T. 0.00 min
Lab File: VN052057.D
Acq: 30 Oct 2018 10:18

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VSTDIC020

Tot Ion:101 Resp: 87176
Ion Ratio Lower Upper
101 100
103 62.2 51.0 76.4

Manual Integrations
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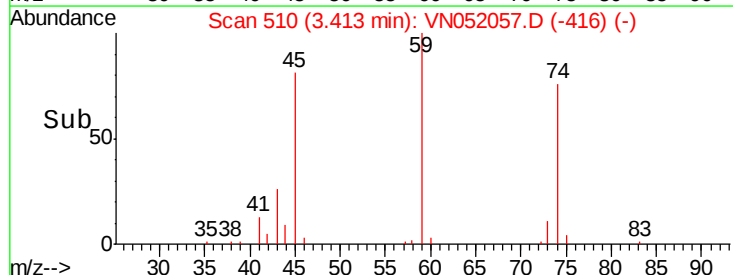
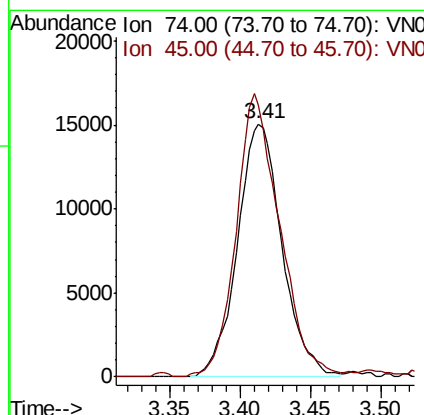
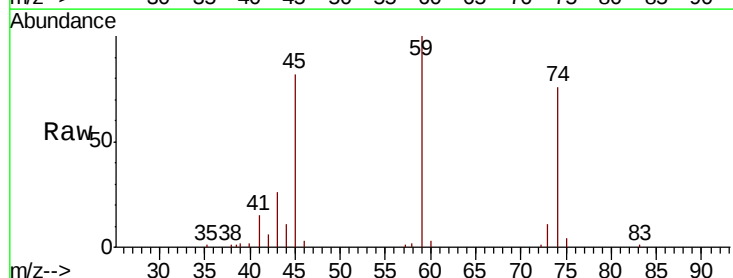
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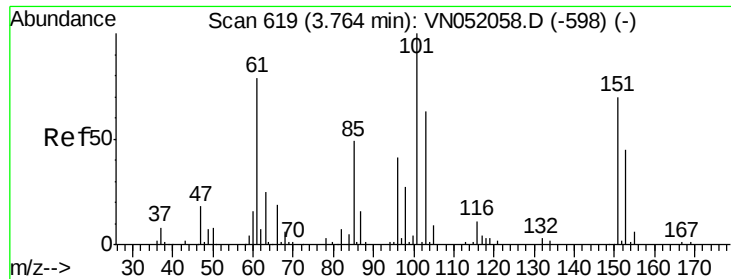


#8

Diethyl Ether
Concen: 21.383 ug/l
RT: 3.41 min Scan# 510
Delta R.T. 0.00 min
Lab File: VN052057.D
Acq: 30 Oct 2018 10:18

Tgt Ion: 74 Resp: 33237
Ion Ratio Lower Upper
74 100
45 109.3 55.6 166.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 21.909 ug/l

RT: 3.77 min Scan# 620

Delta R.T. 0.00 min

Lab File: VN052057.D

Acq: 30 Oct 2018 10:18

Instrument :

MSVOA_N

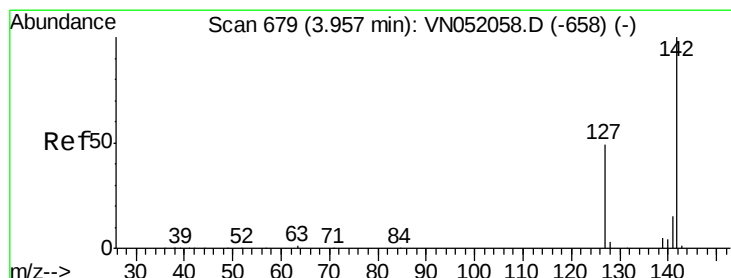
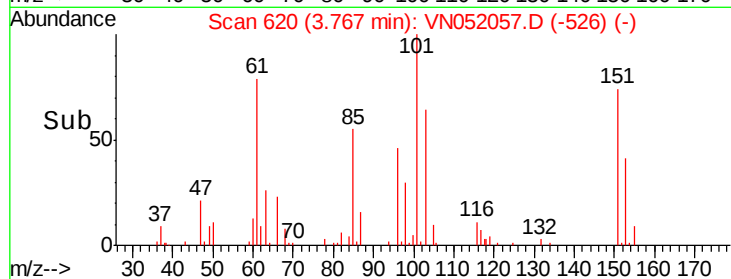
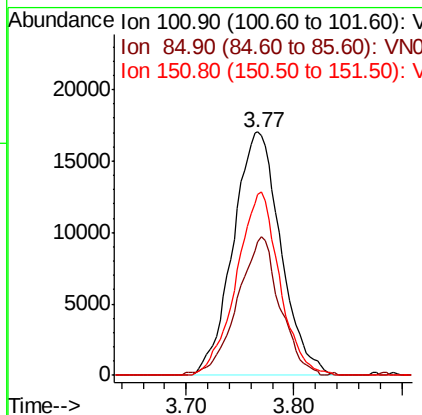
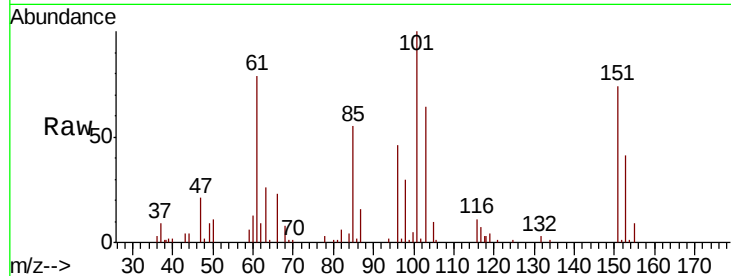
ClientSampled :

VSTDIC020

Tot Ion:	101	Resp:	52163
Ion Ratio	Lower	Upper	
101	100		
85	50.9	38.6	58.0
151	68.2	52.6	78.8

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#10

Methyl Iodide

Concen: 19.249 ug/l

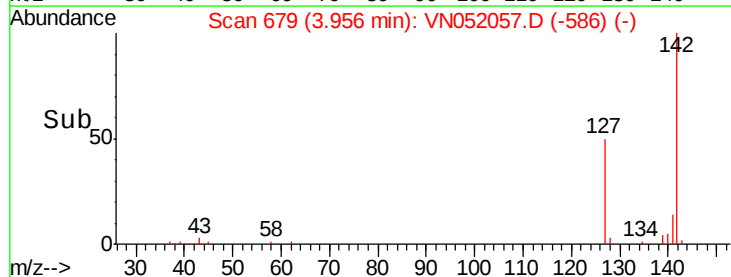
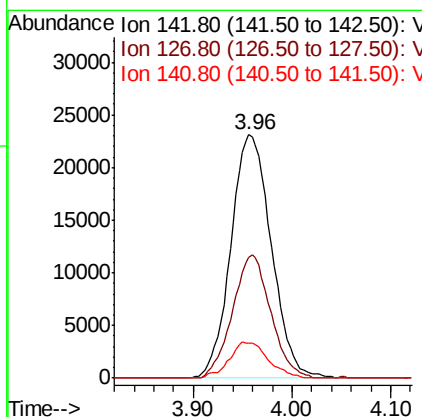
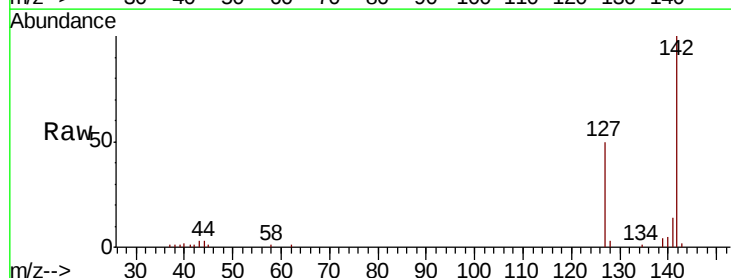
RT: 3.96 min Scan# 679

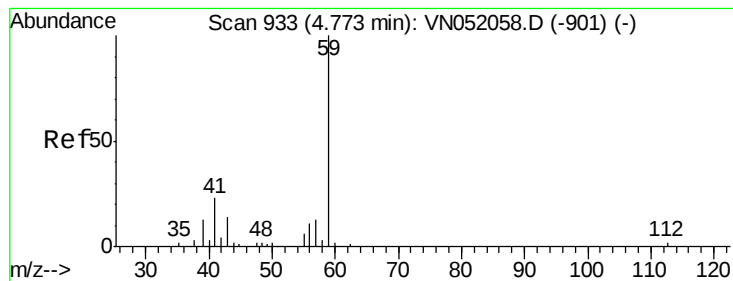
Delta R.T. -0.00 min

Lab File: VN052057.D

Acq: 30 Oct 2018 10:18

Tgt Ion:	142	Resp:	65741
Ion Ratio	Lower	Upper	
142	100		
127	47.7	37.3	55.9
141	14.1	11.4	17.2





#11

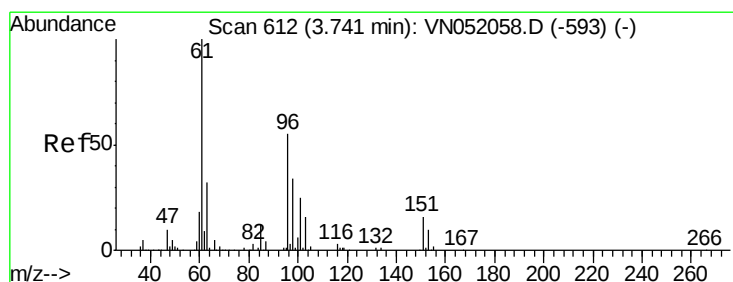
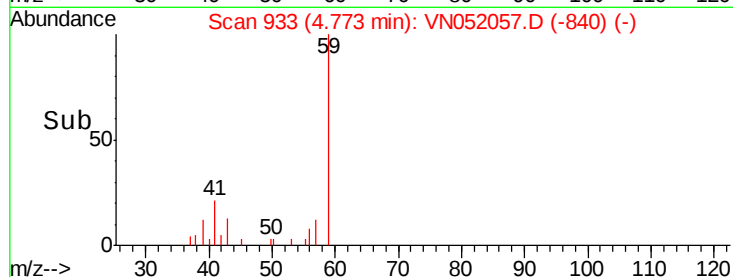
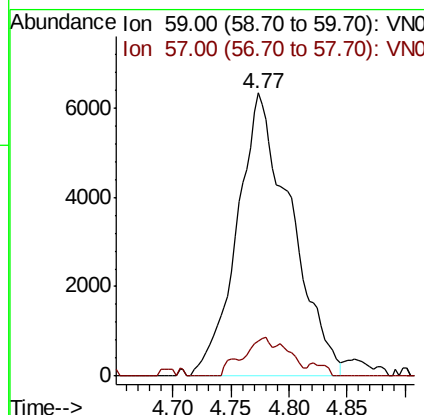
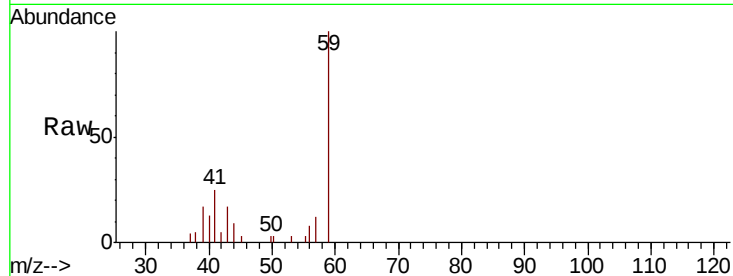
Tert butyl alcohol
 Concen: 123.589 ug/l
 RT: 4.77 min Scan# 933
 Delta R.T. -0.00 min
 Lab File: VN052057.D
 Acq: 30 Oct 2018 10:18

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
59	100		
57	9.6	7.0	10.6

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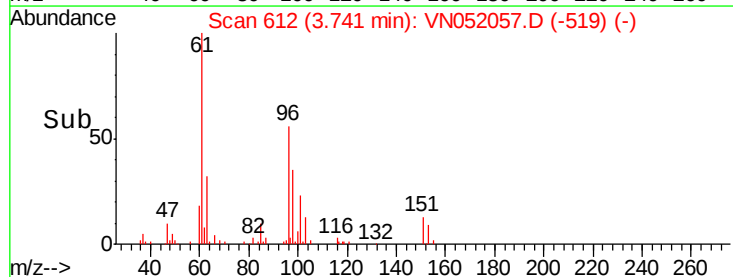
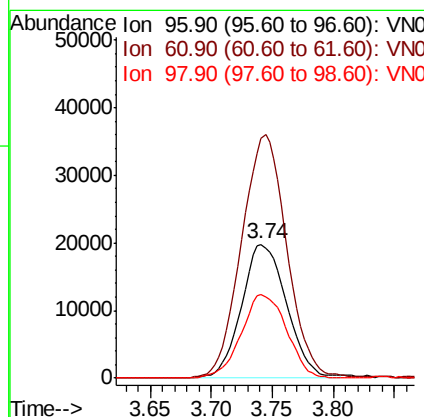
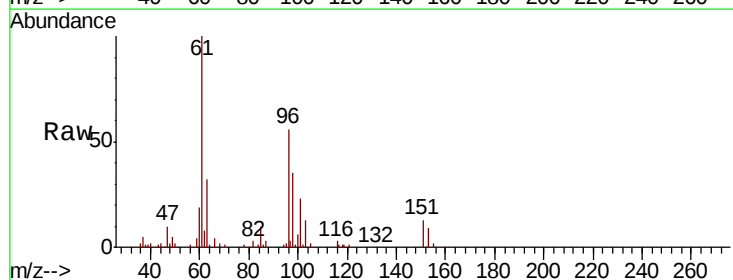
MMDadoda
 11/1/2018 11:47:51 AM

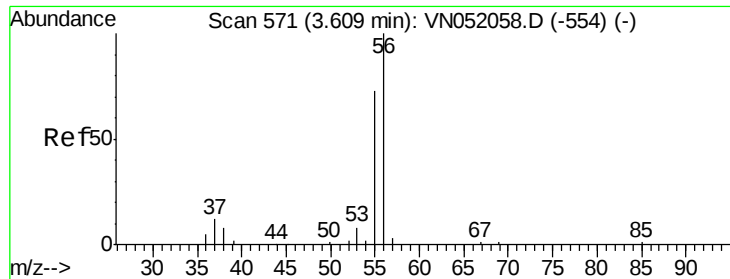


#12

1,1-Dichloroethene
 Concen: 22.405 ug/l
 RT: 3.74 min Scan# 612
 Delta R.T. -0.00 min
 Lab File: VN052057.D
 Acq: 30 Oct 2018 10:18

Tgt Ion	Ratio	Lower	Upper
96	100		
61	178.9	145.7	218.5
98	62.5	49.8	74.8





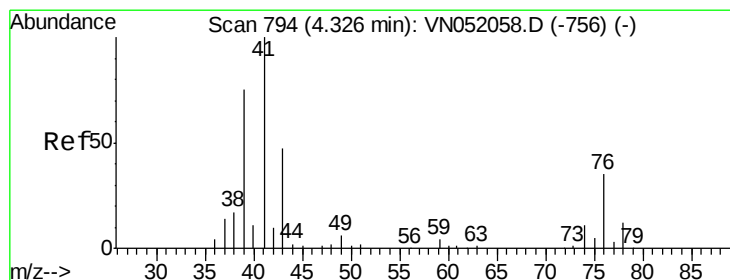
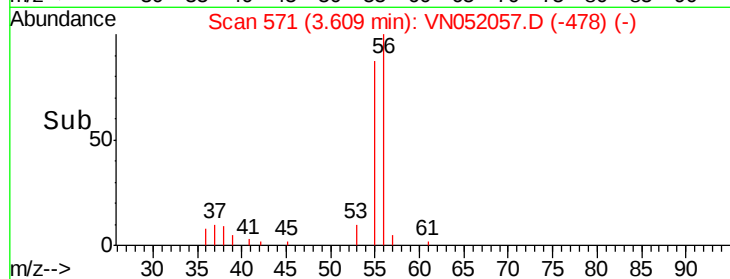
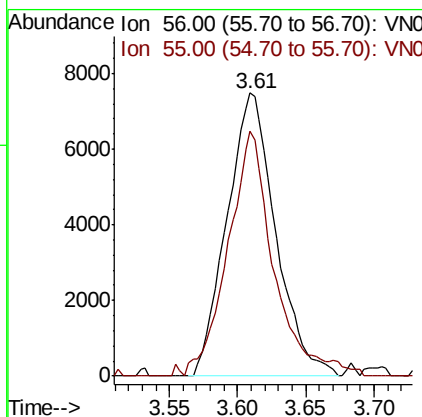
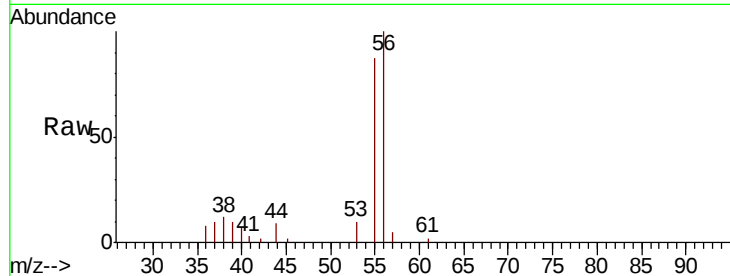
#13
Acrolein
Concen: 104.735 ug/l
RT: 3.61 min Scan# 571
Delta R.T. -0.00 min
Lab File: VN052057.D
Acq: 30 Oct 2018 10:18

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	56	55	Ratio	100	81.6	Resp	18554	Lower	59.9	Upper	89.9
Ion											

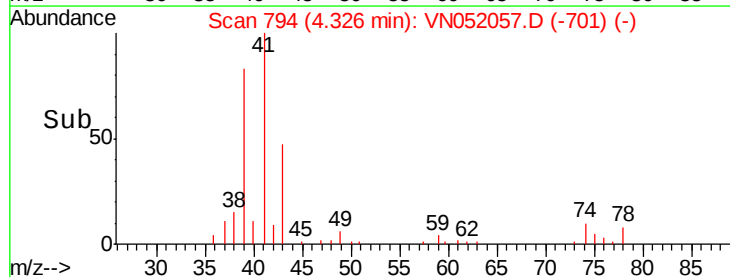
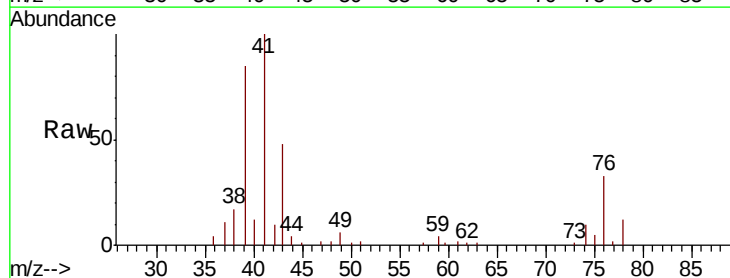
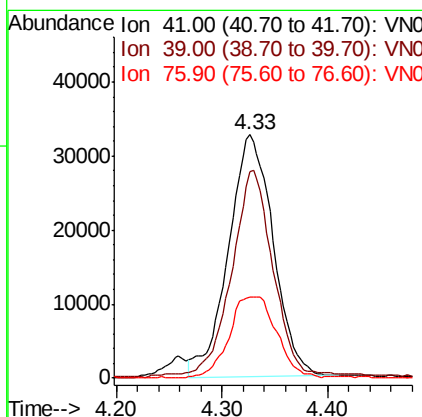
Manual Integrations
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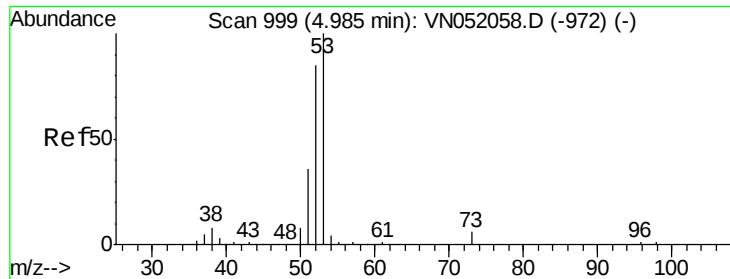
MMDadoda
11/1/2018 11:47:51 AM



#14
Allyl chloride
Concen: 20.842 ug/l
RT: 4.33 min Scan# 794
Delta R.T. -0.00 min
Lab File: VN052057.D
Acq: 30 Oct 2018 10:18

Tgt Ion	41	39	76	Ratio	100	77.3	35.6	Resp	96253	Lower	58.1	26.0	Upper	87.1	39.0
Ion															





#15

Acrylonitrile

Concen: 108.600 ug/l

RT: 4.98 min Scan# 998

Delta R.T. -0.00 min

Lab File: VN052057.D

Acq: 30 Oct 2018 10:18

Instrument :

MSVOA_N

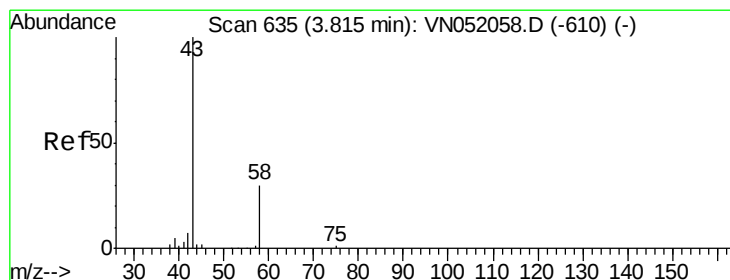
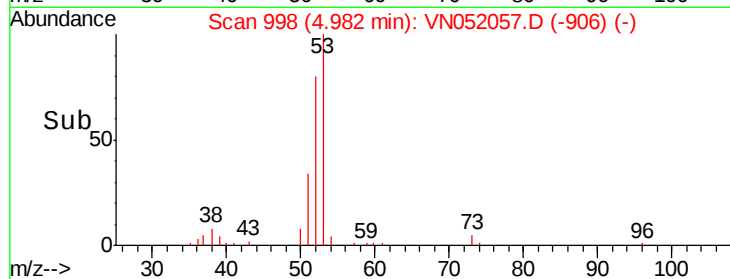
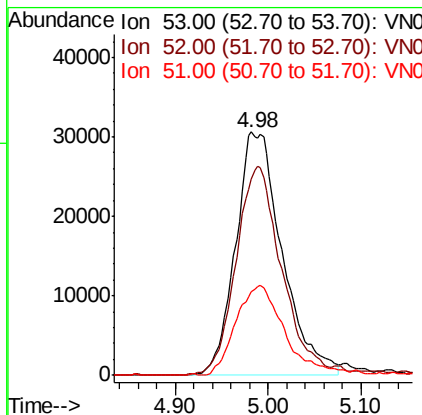
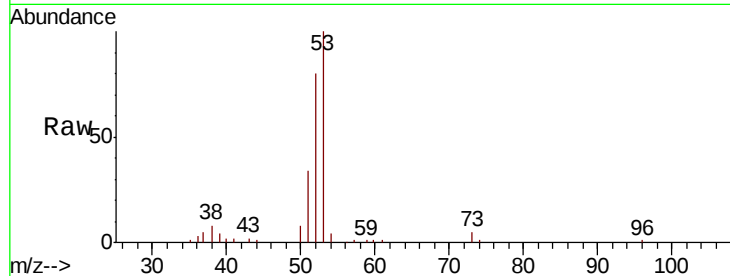
ClientSampleId :

VSTDIC020

Tot Ion:	53	Resp:	106962
Ion	Ratio	Lower	Upper
53	100		
52	83.6	66.6	100.0
51	38.7	29.0	43.6

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#16

Acetone

Concen: 99.865 ug/l

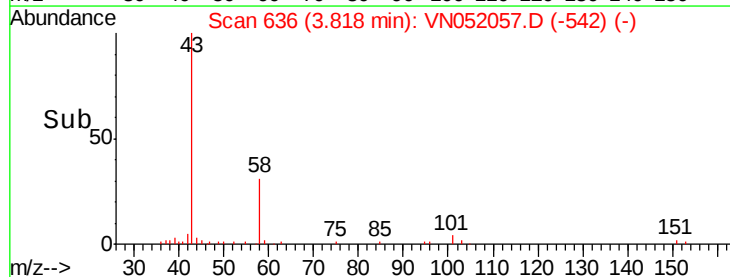
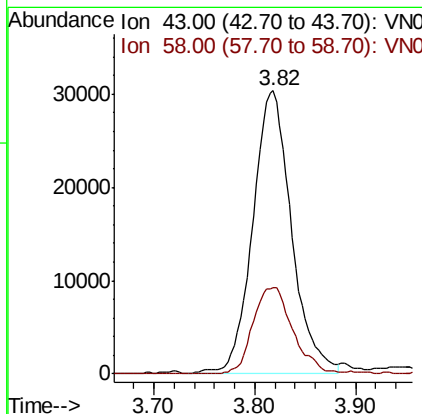
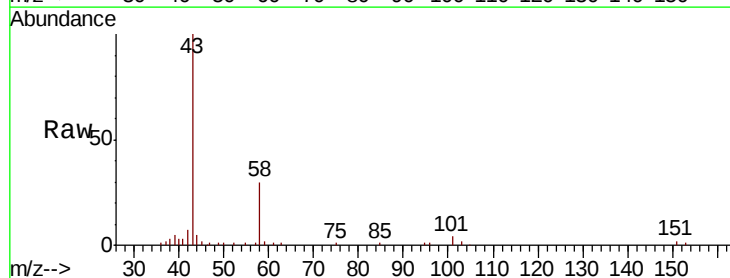
RT: 3.82 min Scan# 636

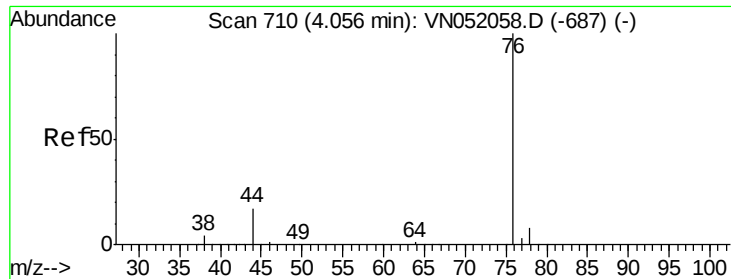
Delta R.T. 0.00 min

Lab File: VN052057.D

Acq: 30 Oct 2018 10:18

Tgt Ion:	43	Resp:	81057
Ion	Ratio	Lower	Upper
43	100		
58	30.4	24.2	36.2





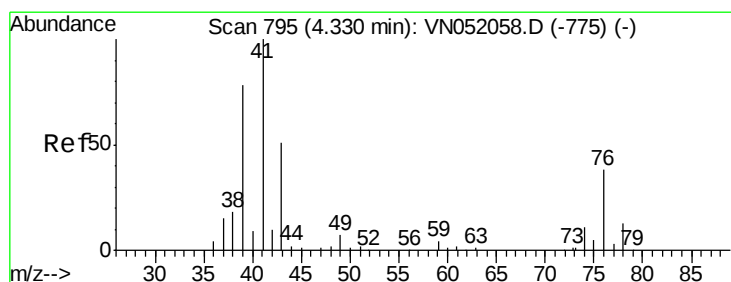
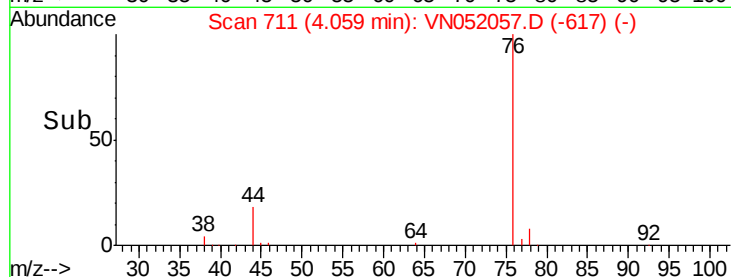
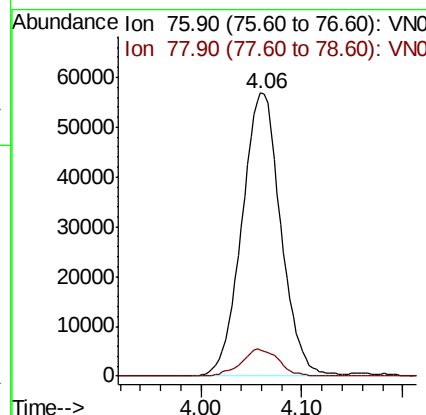
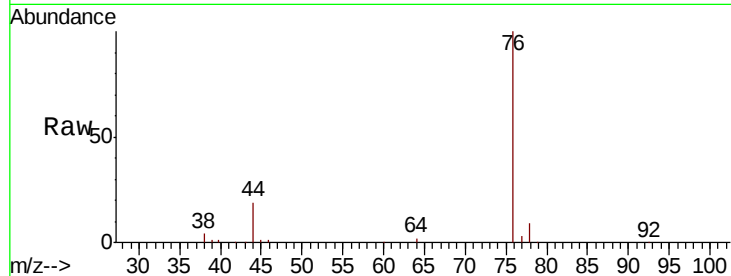
#17
Carbon Disulfide
Concen: 20.630 ug/l
RT: 4.06 min Scan# 711
Delta R.T. 0.00 min
Lab File: VN052057.D
Acq: 30 Oct 2018 10:18

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.3	6.8	10.2

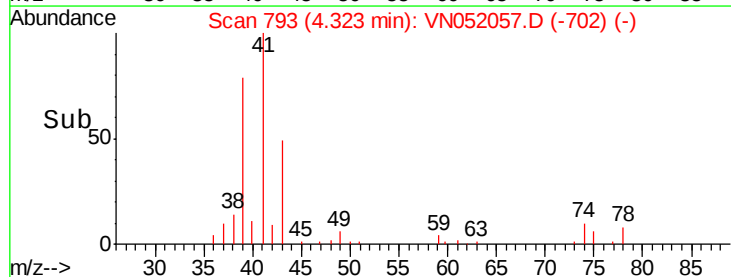
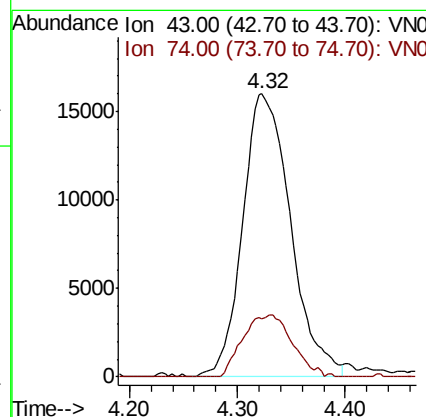
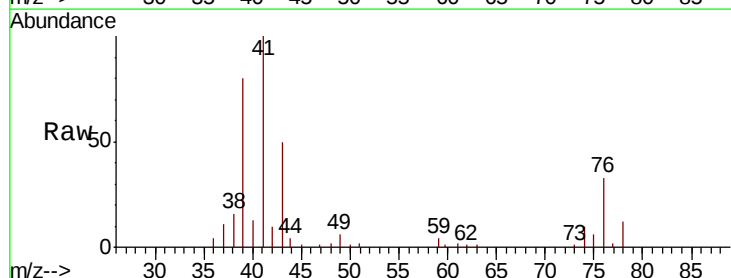
Manual Integrations
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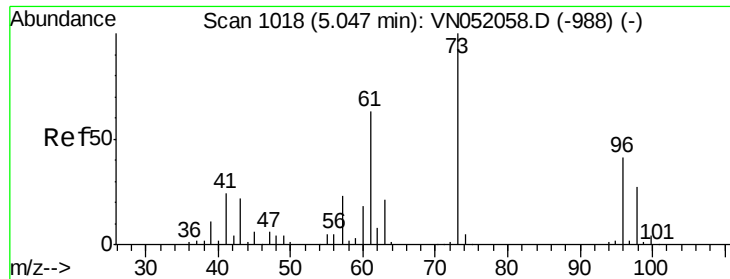
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#18
Methyl Acetate
Concen: 19.584 ug/l
RT: 4.32 min Scan# 793
Delta R.T. -0.01 min
Lab File: VN052057.D
Acq: 30 Oct 2018 10:18

Tgt Ion	Ratio	Lower	Upper
43	100		
74	22.6	17.9	26.9





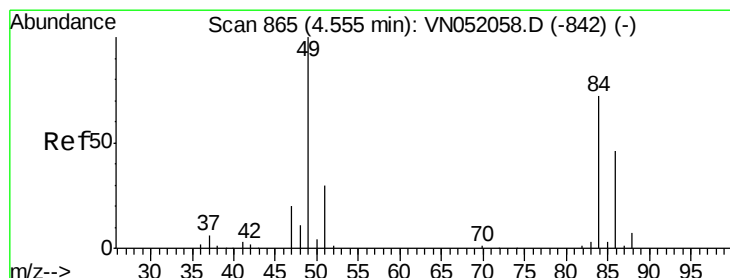
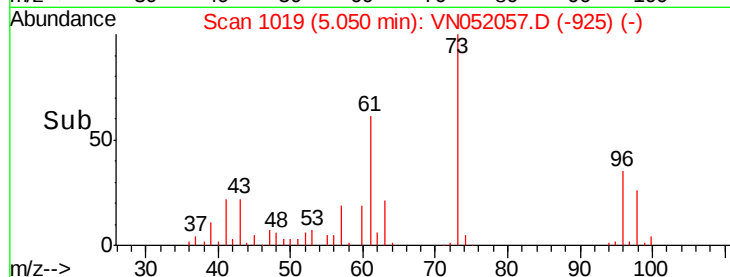
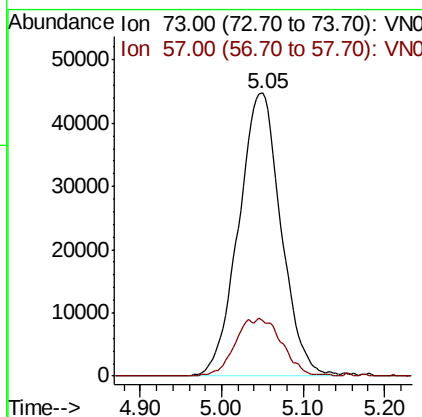
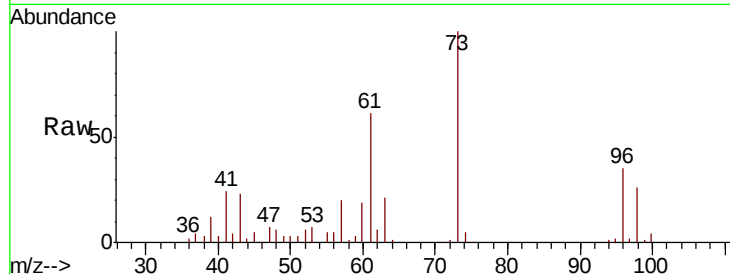
#19
Methyl tert-butyl Ether
Concen: 21.281 ug/l
RT: 5.05 min Scan# 1019
Delta R.T. 0.00 min
Lab File: VN052057.D
Acq: 30 Oct 2018 10:18

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion: 73 Resp: 161133
Ion Ratio Lower Upper
73 100
57 19.7 18.7 28.1

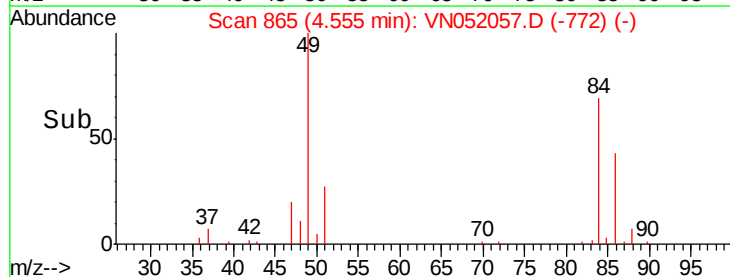
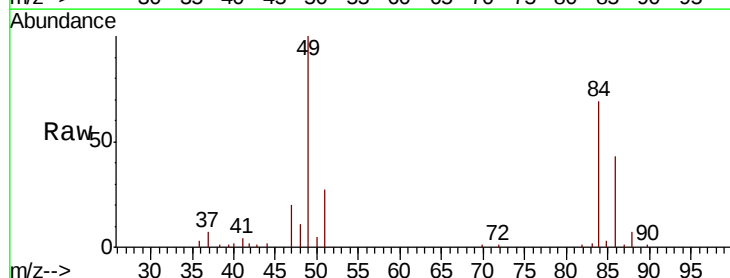
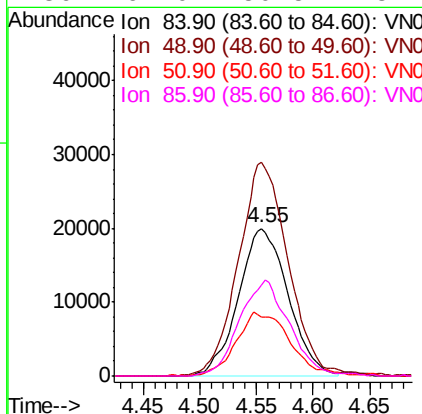
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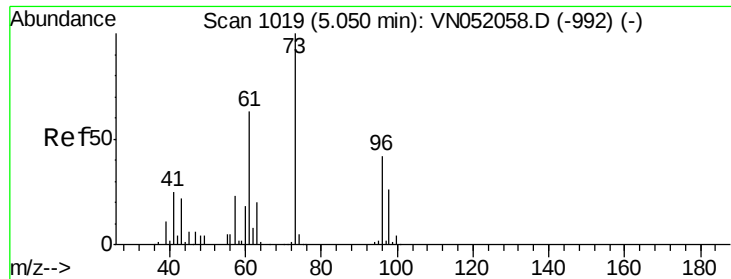
MMDadoda
11/1/2018 11:47:51 AM



#20
Methylene Chloride
Concen: 21.870 ug/l
RT: 4.55 min Scan# 865
Delta R.T. -0.00 min
Lab File: VN052057.D
Acq: 30 Oct 2018 10:18

Tgt Ion: 84 Resp: 61057
Ion Ratio Lower Upper
84 100
49 143.9 110.6 165.8
51 39.8 33.7 50.5
86 62.0 50.5 75.7





#21

trans-1,2-Dichloroethene

Concen: 21.446 ug/l

RT: 5.04 min Scan# 1017

Delta R.T. -0.01 min

Lab File: VN052057.D

Acq: 30 Oct 2018 10:18

Instrument :

MSVOA_N

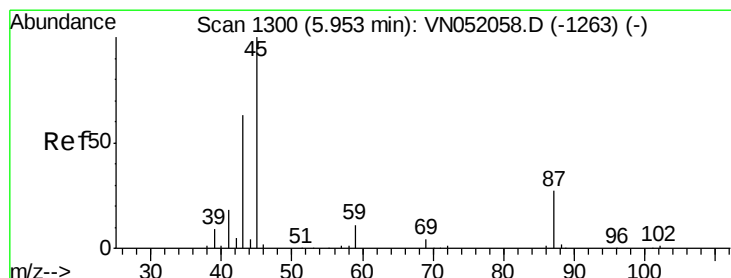
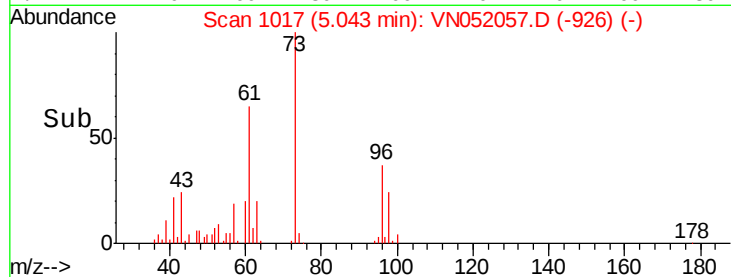
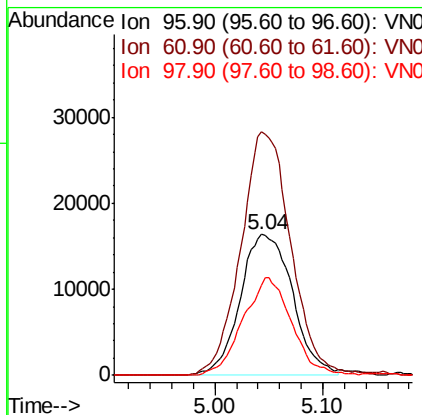
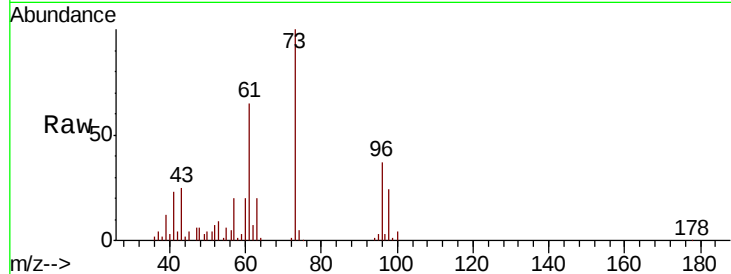
ClientSampleId :

VSTDIC020

Tot Ion:	96	Resp:	55104
Ion	Ratio	Lower	Upper
96	100		
61	173.1	118.6	178.0
98	63.9	49.7	74.5

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#22

Diisopropyl ether

Concen: 21.433 ug/l

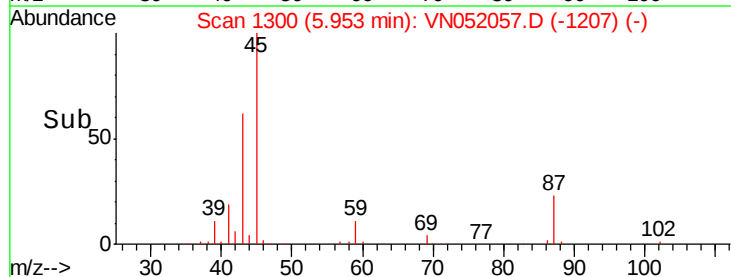
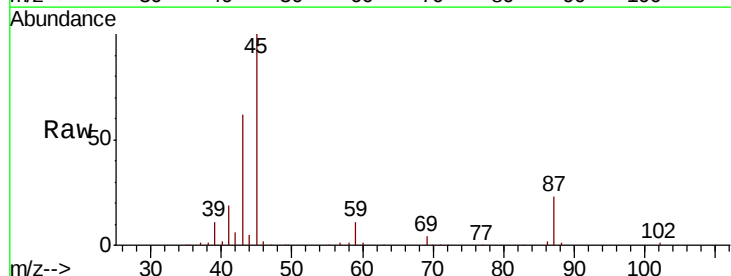
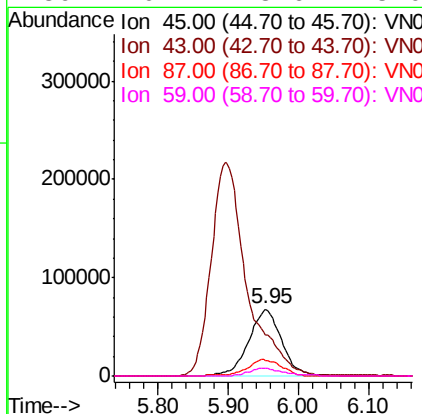
RT: 5.95 min Scan# 1300

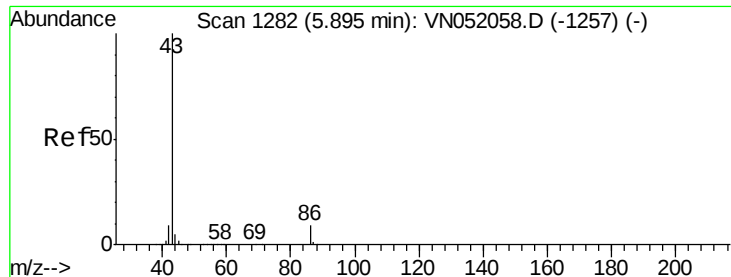
Delta R.T. -0.00 min

Lab File: VN052057.D

Acq: 30 Oct 2018 10:18

Tgt Ion:	45	Resp:	220937
Ion	Ratio	Lower	Upper
45	100		
43	59.5	50.5	75.7
87	23.0	21.5	32.3
59	10.7	8.6	13.0





#23

Vinyl Acetate

Concen: 112.448 ug/l

RT: 5.90 min Scan# 1282

Delta R.T. -0.00 min

Lab File: VN052057.D

Acq: 30 Oct 2018 10:18

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 766700

Ion Ratio Lower Upper

43 100

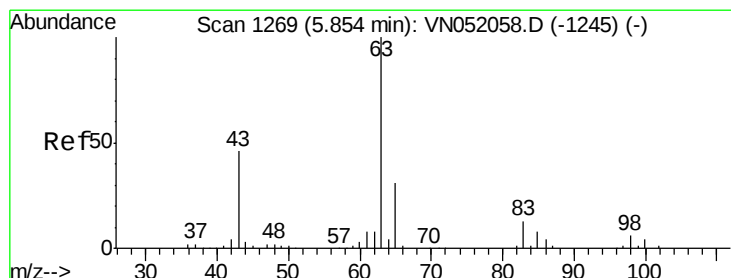
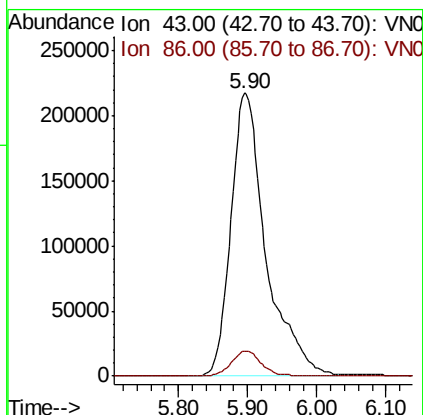
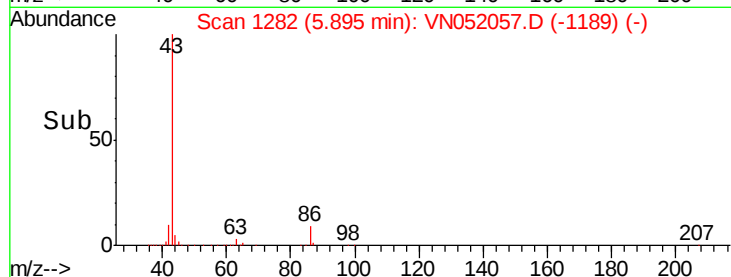
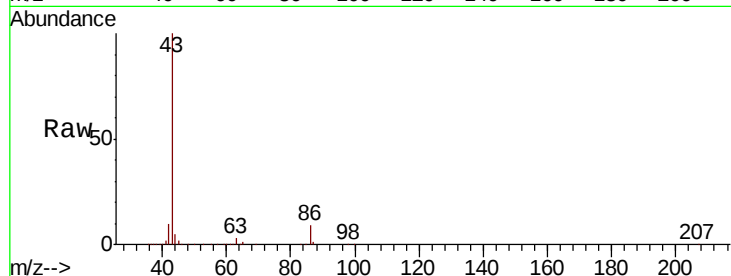
86 9.0 7.3 10.9

Manual Integrations

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#24

1,1-Dichloroethane

Concen: 21.122 ug/l

RT: 5.85 min Scan# 1268

Delta R.T. -0.00 min

Lab File: VN052057.D

Acq: 30 Oct 2018 10:18

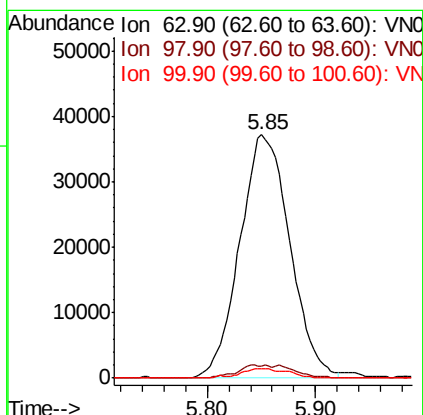
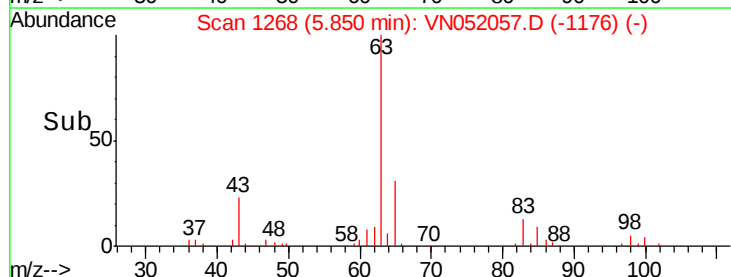
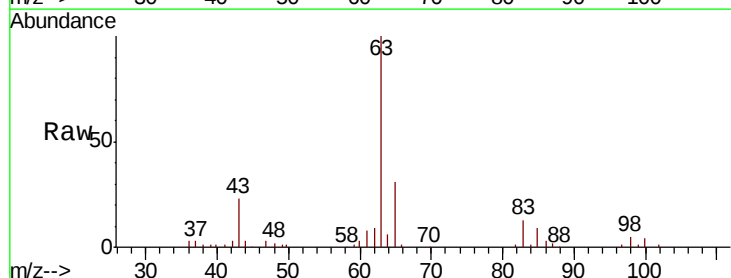
Tgt Ion: 63 Resp: 119883

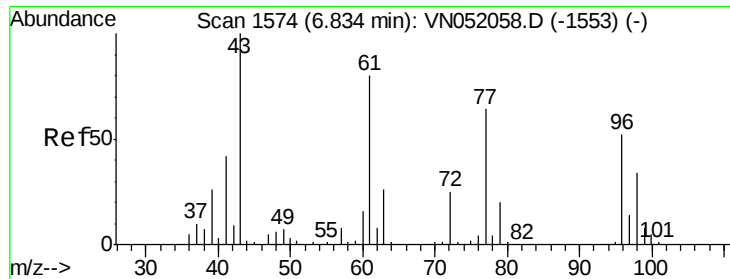
Ion Ratio Lower Upper

63 100

98 5.0 2.8 8.4

100 4.0 2.0 6.0





#25

2-Butanone

Concen: 117.416 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. -0.00 min

Lab File: VN052057.D

Acq: 30 Oct 2018 10:18

Instrument :

MSVOA_N

ClientSampled :

VSTDIC020

Tot Ion: 43 Resp: 134584

Ion Ratio Lower Upper

43 100

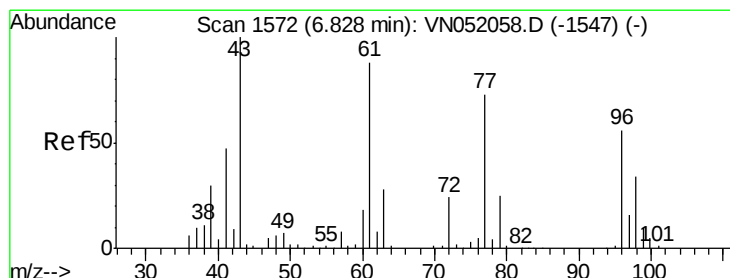
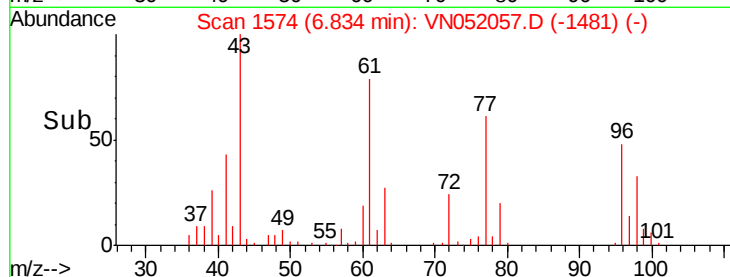
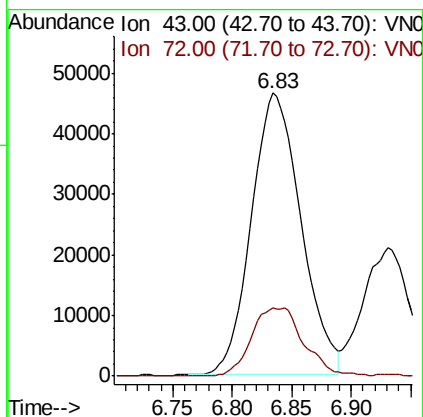
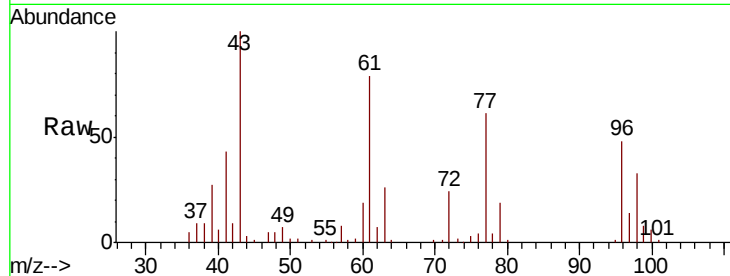
72 24.1 20.2 30.2

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 20.280 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VN052057.D

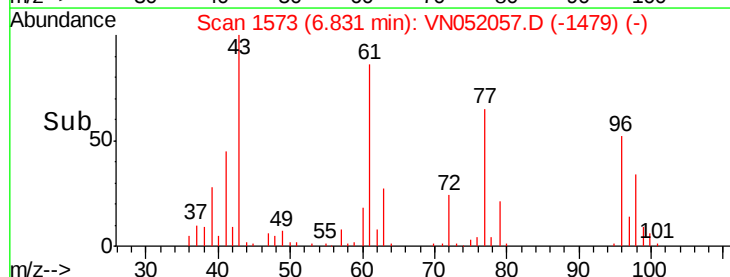
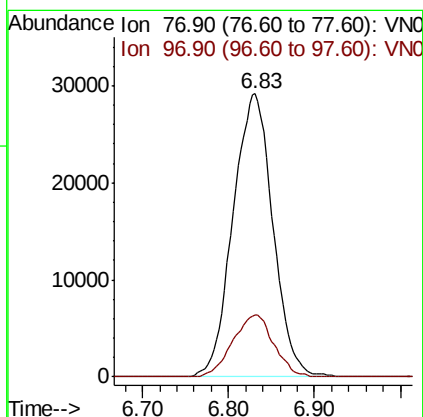
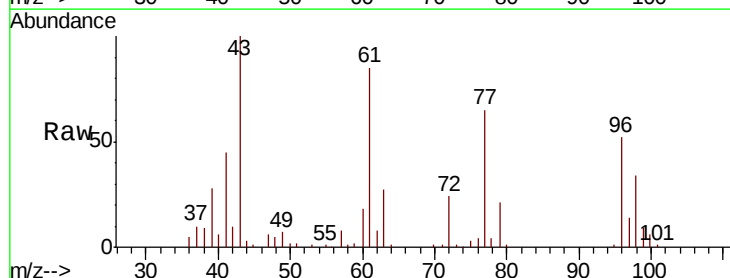
Acq: 30 Oct 2018 10:18

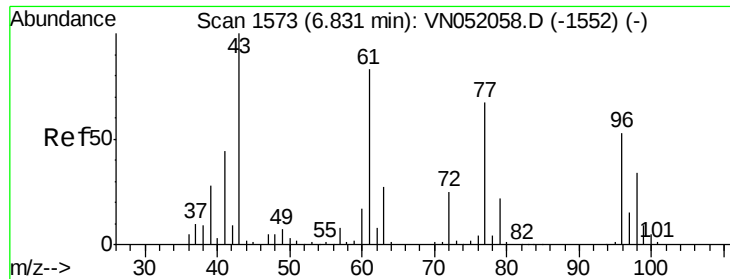
Tgt Ion: 77 Resp: 93958

Ion Ratio Lower Upper

77 100

97 22.4 10.5 31.5





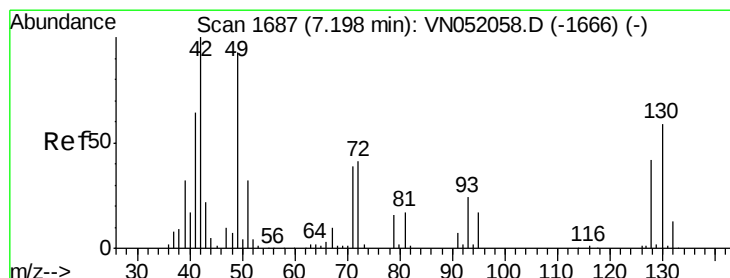
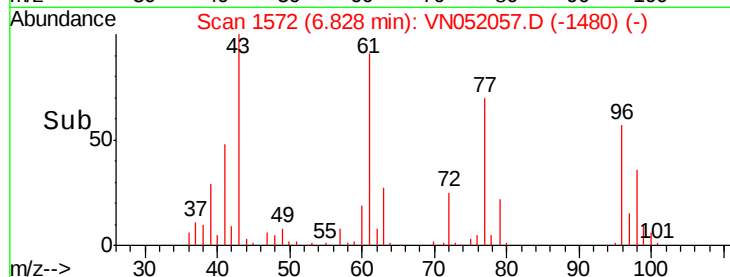
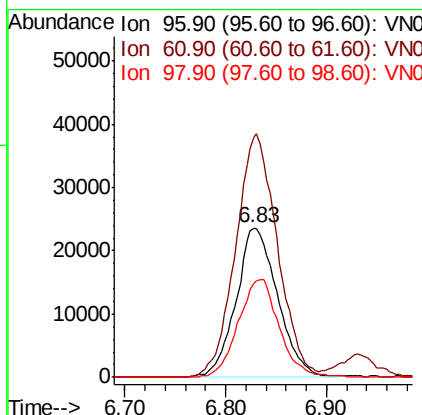
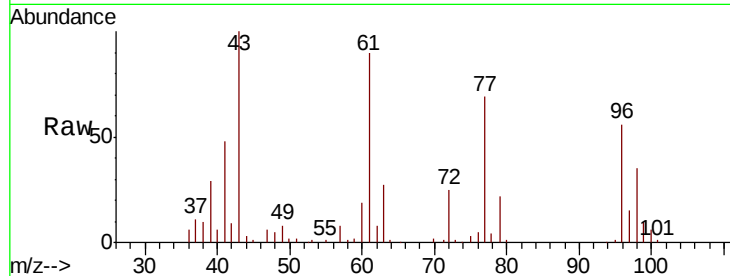
#27
 cis-1,2-Dichloroethene
 Concen: 21.200 ug/l
 RT: 6.83 min Scan# 1572
 Delta R.T. -0.00 min
 Lab File: VN052057.D
 Acq: 30 Oct 2018 10:18

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
96	100		
61	163.4	0.0	312.8
98	64.5	0.0	127.0

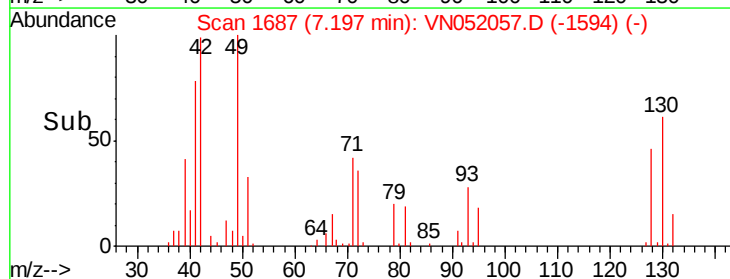
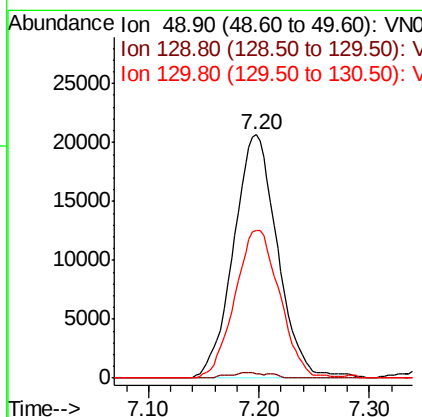
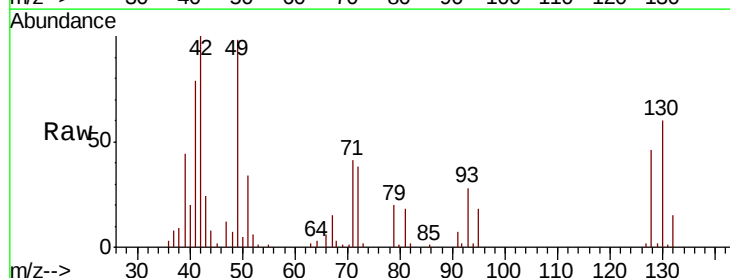
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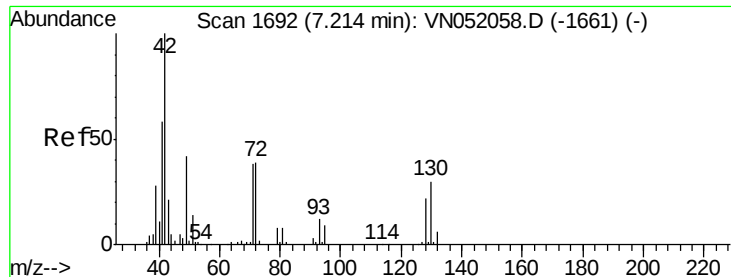
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#28
 Bromochloromethane
 Concen: 18.265 ug/l
 RT: 7.20 min Scan# 1687
 Delta R.T. -0.00 min
 Lab File: VN052057.D
 Acq: 30 Oct 2018 10:18

Tgt Ion	Ratio	Lower	Upper
49	100		
129	1.3	0.0	2.4
130	61.9	50.8	76.2





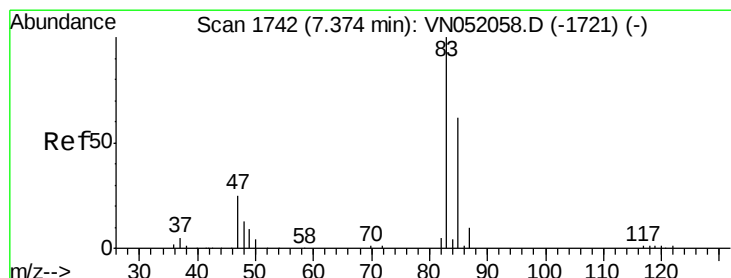
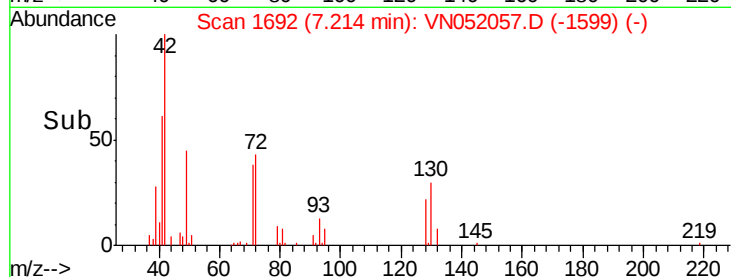
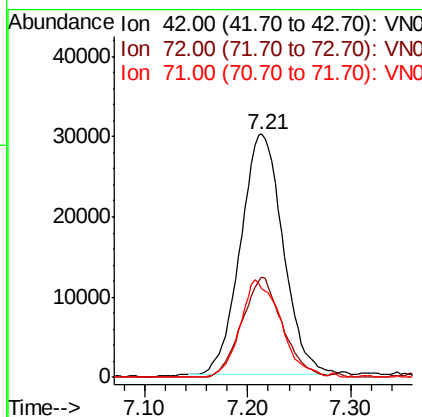
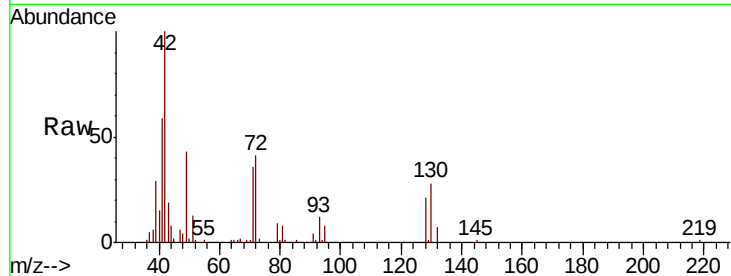
#29
Tetrahydrofuran
Concen: 105.552 ug/l
RT: 7.21 min Scan# 1692
Delta R.T. -0.00 min
Lab File: VN052057.D
Acq: 30 Oct 2018 10:18

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
42	100		
72	39.4	32.5	48.7
71	38.6	30.6	46.0

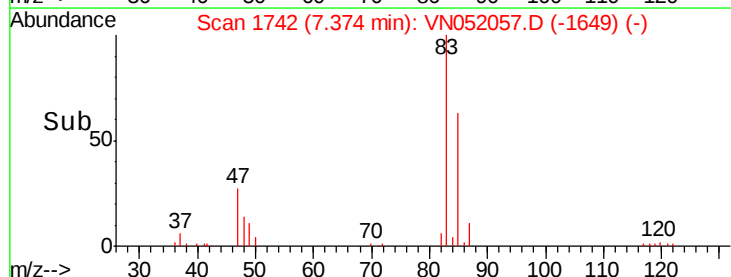
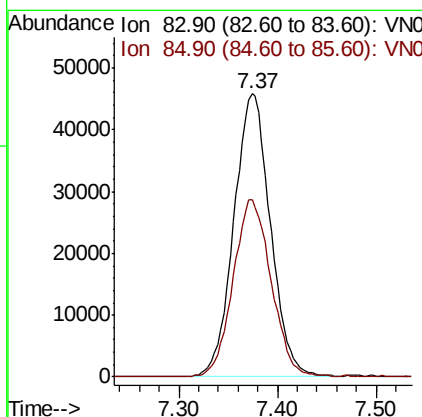
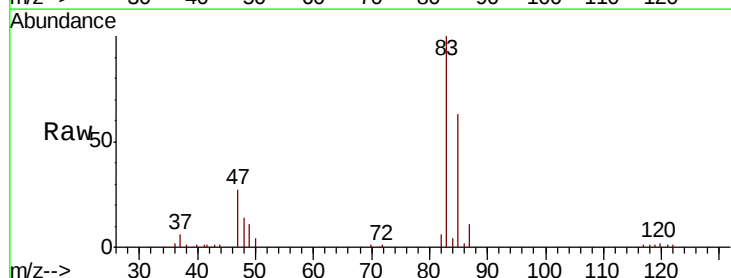
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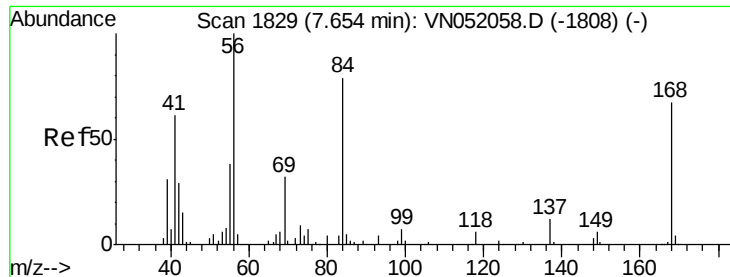
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#30
Chloroform
Concen: 20.369 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. -0.00 min
Lab File: VN052057.D
Acq: 30 Oct 2018 10:18

Tgt Ion	Ratio	Lower	Upper
83	100		
85	62.6	49.6	74.4





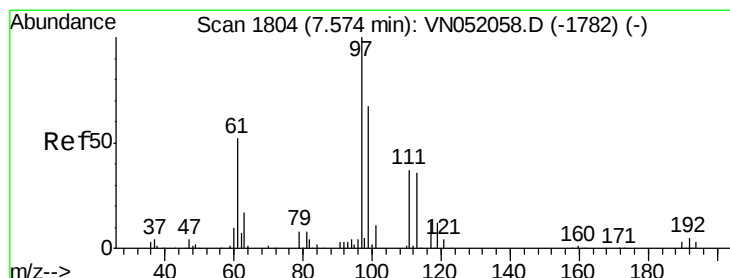
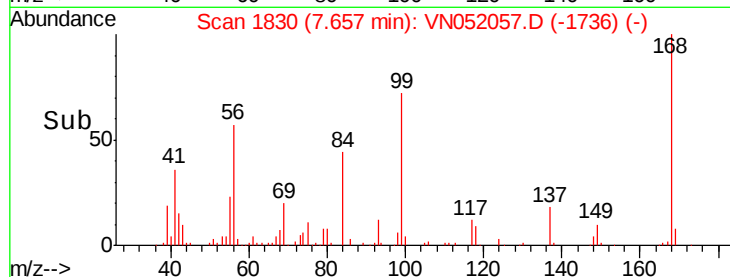
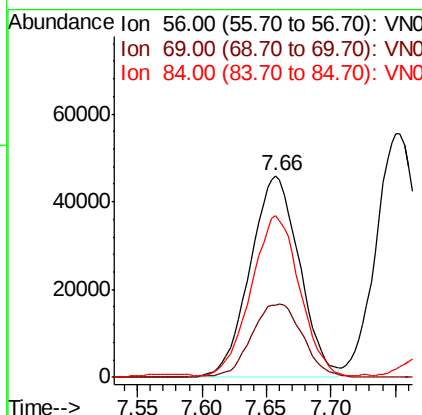
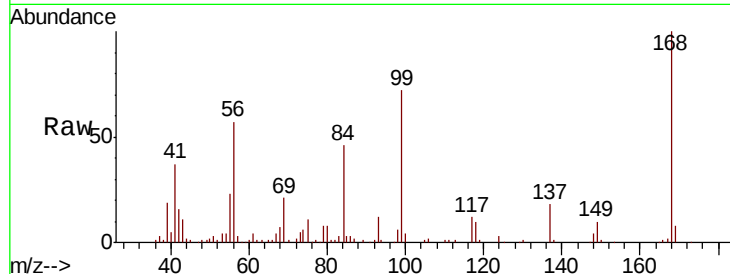
#31
Cyclohexane
Concen: 13.579 ug/l
RT: 7.66 min Scan# 1830
Delta R.T. 0.00 min
Lab File: VN052057.D
Acq: 30 Oct 2018 10:18

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
56	100		
69	35.9	25.8	38.6
84	78.9	63.5	95.3

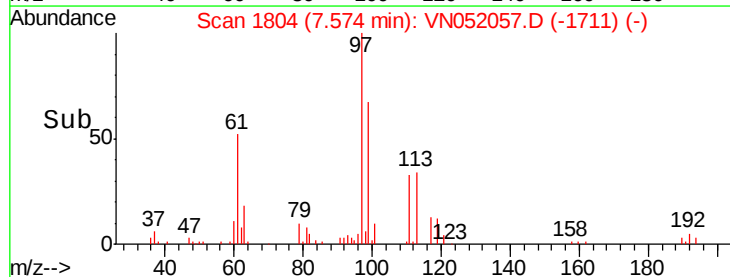
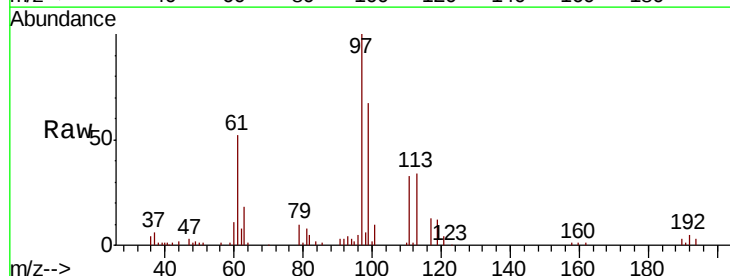
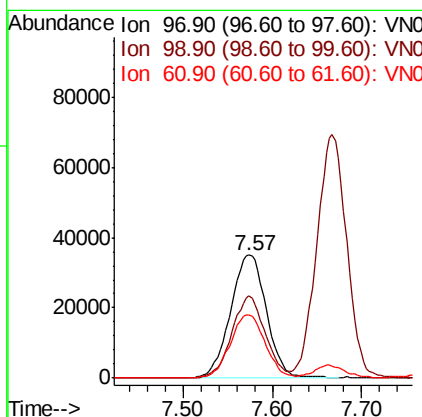
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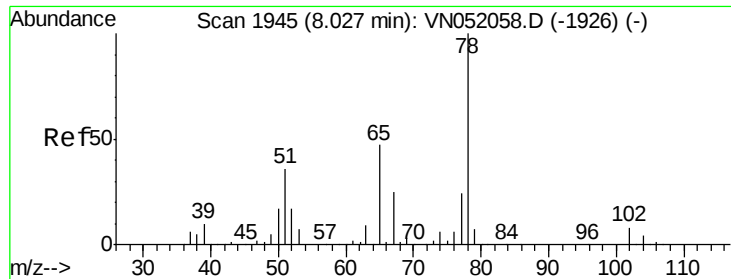
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#32
1,1,1-Trichloroethane
Concen: 22.165 ug/l
RT: 7.57 min Scan# 1804
Delta R.T. -0.00 min
Lab File: VN052057.D
Acq: 30 Oct 2018 10:18

Tgt Ion	Ratio	Lower	Upper
97	100		
99	62.2	51.4	77.2
61	50.2	40.3	60.5





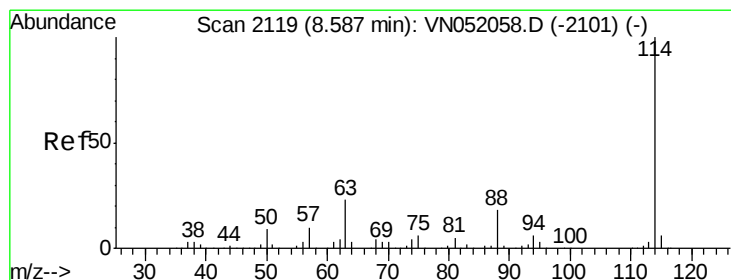
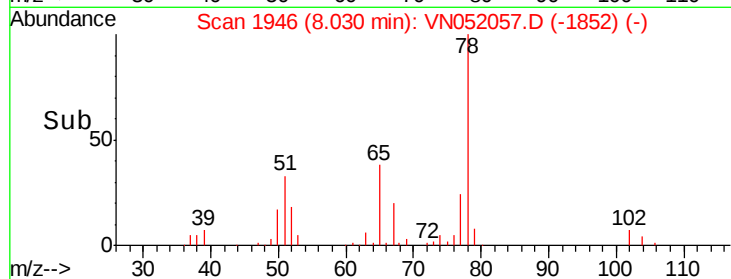
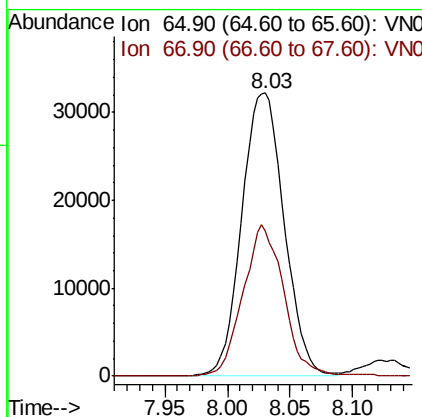
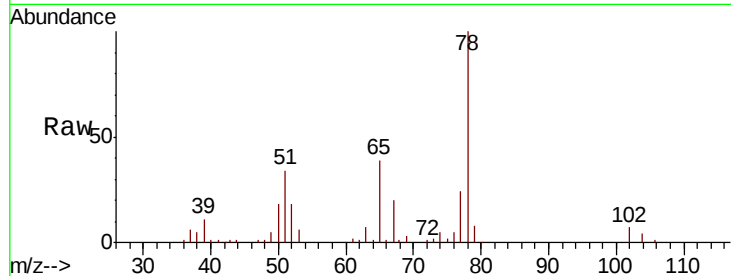
#33
 1,2-Dichloroethane-d4
 Concen: 22.165 ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN052057.D
 Acq: 30 Oct 2018 10:18

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
65	100	75881		
67	50.8	0.0	105.2	

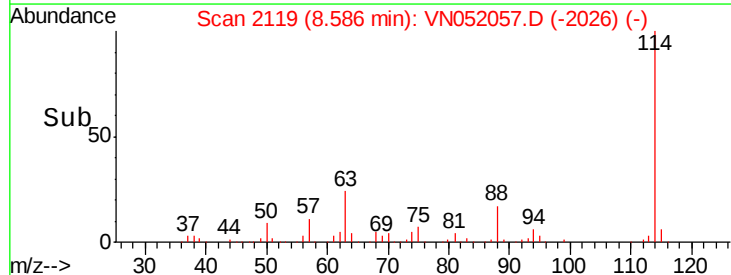
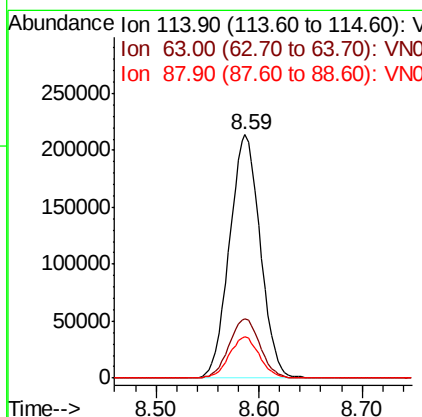
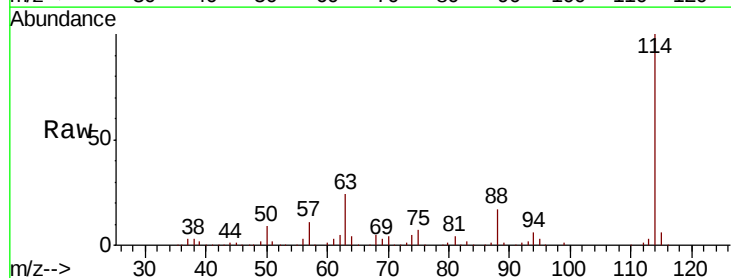
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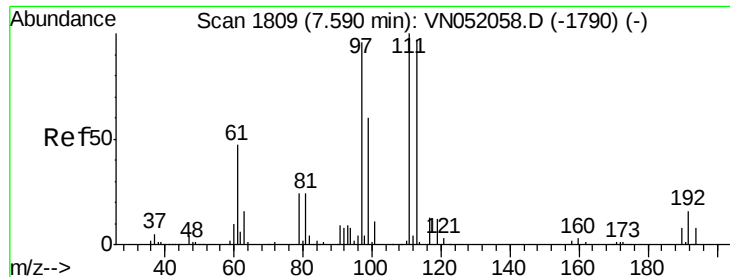
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN052057.D
 Acq: 30 Oct 2018 10:18

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	444199		
63	24.5	0.0	46.0	
88	17.0	0.0	35.4	





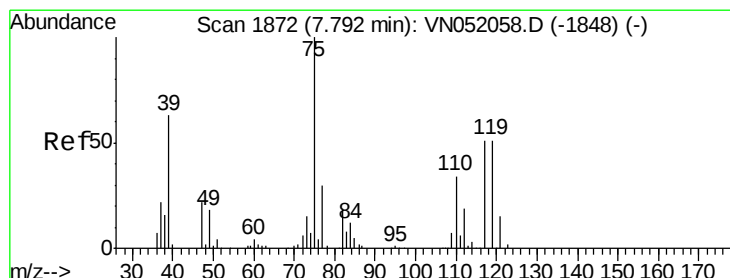
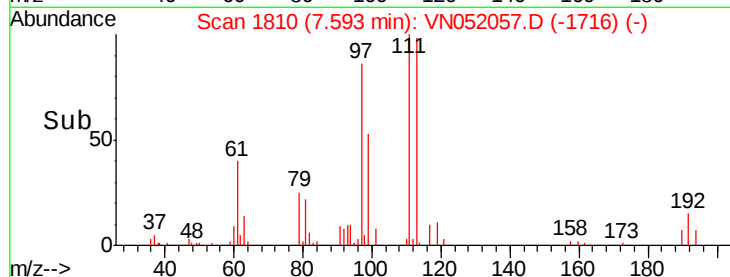
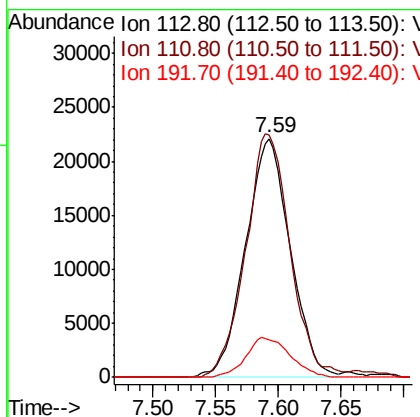
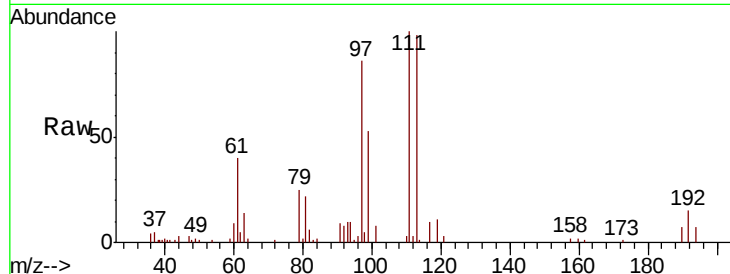
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN052057.D
 Acq: 30 Oct 2018 10:18

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
113	100		
111	100.9	83.1	124.7
192	16.5	12.7	19.1

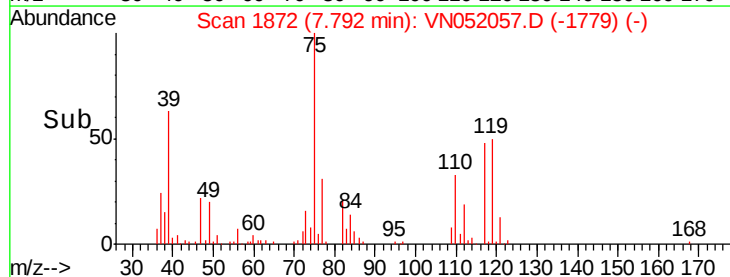
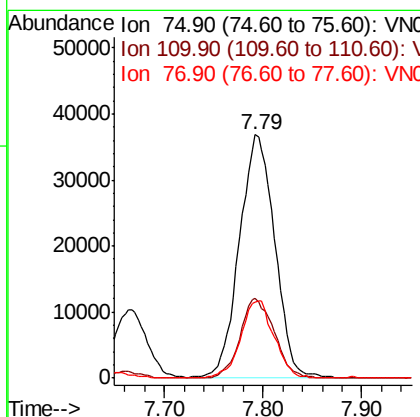
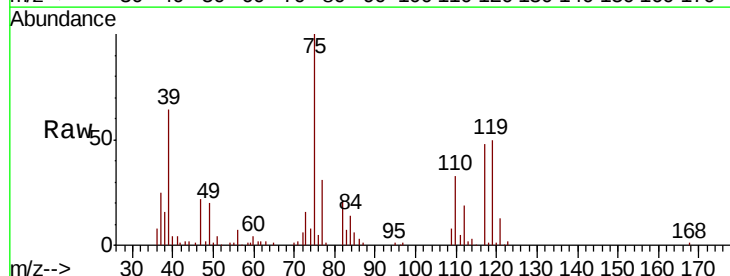
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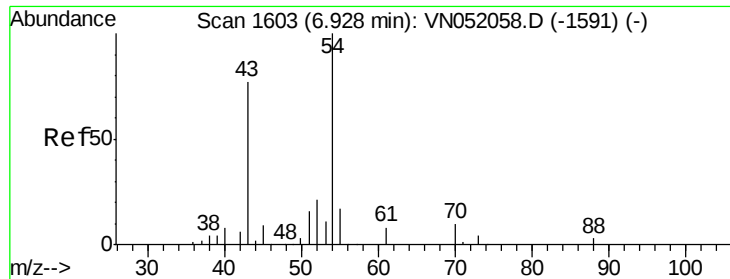
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#36
 1,1-Dichloropropene
 Concen: 20.780 ug/l
 RT: 7.79 min Scan# 1872
 Delta R.T. -0.00 min
 Lab File: VN052057.D
 Acq: 30 Oct 2018 10:18

Tgt Ion	Ratio	Lower	Upper
75	100		
110	31.4	16.0	48.0
77	29.7	24.5	36.7





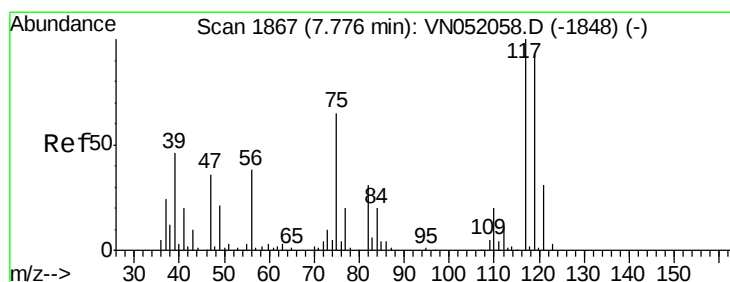
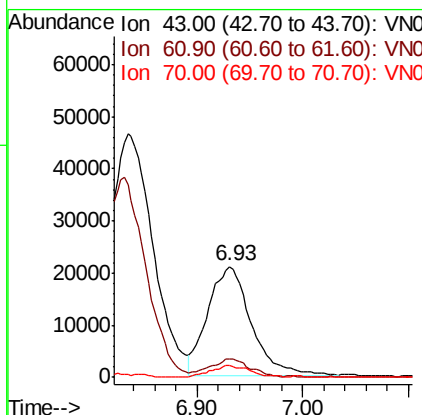
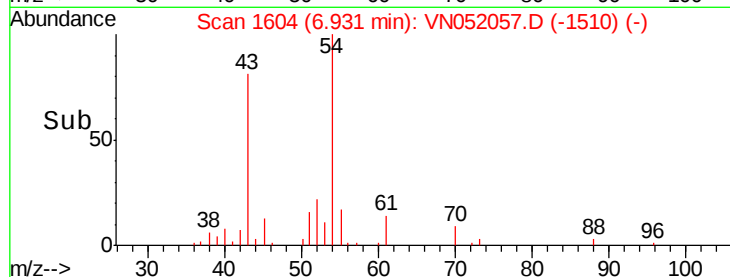
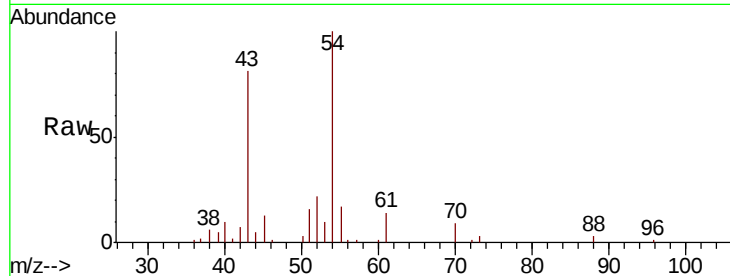
#37
Ethyl Acetate
Concen: 22.698 ug/l
RT: 6.93 min Scan# 1604
Delta R.T. 0.00 min
Lab File: VN052057.D
Acq: 30 Oct 2018 10:18

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.5	10.9	16.3
70	9.8	8.6	12.8

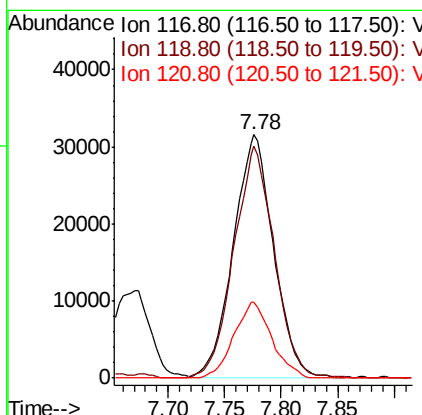
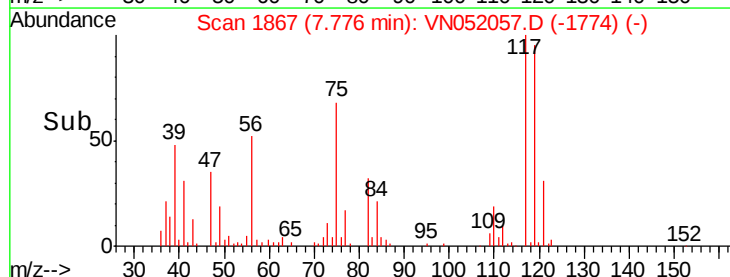
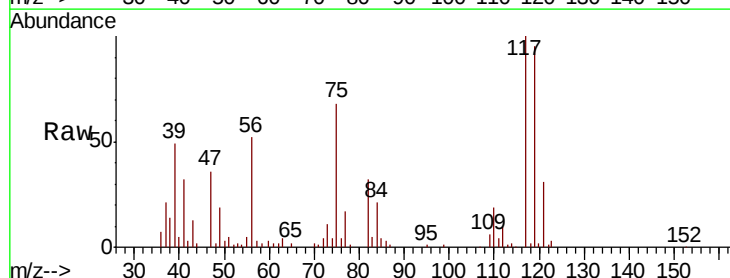
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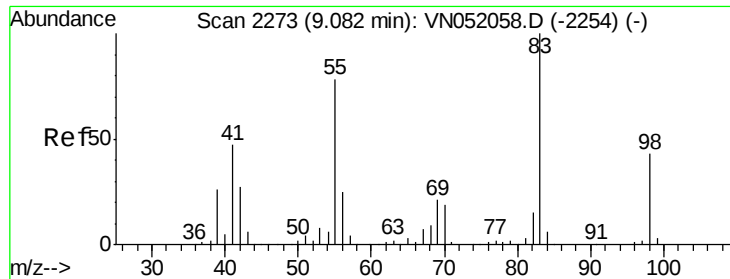
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#38
Carbon Tetrachloride
Concen: 21.375 ug/l
RT: 7.78 min Scan# 1867
Delta R.T. -0.00 min
Lab File: VN052057.D
Acq: 30 Oct 2018 10:18

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.2	74.8	112.2
121	31.4	25.1	37.7





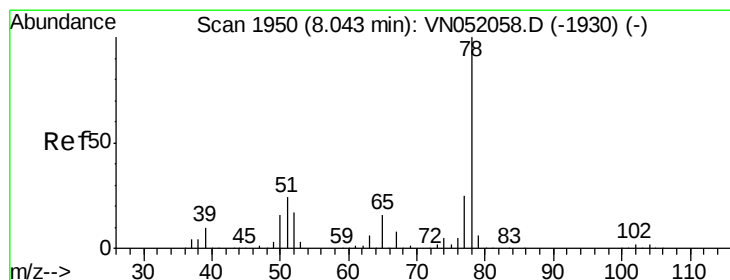
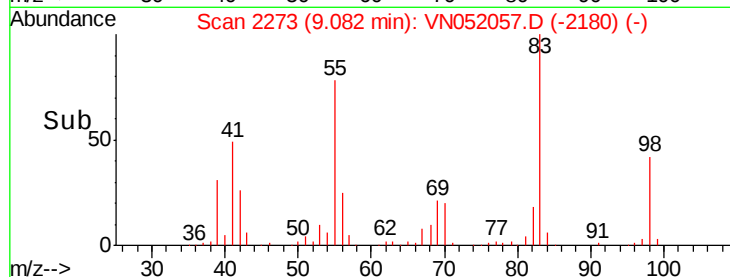
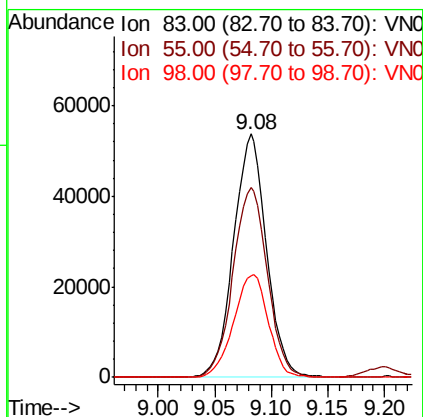
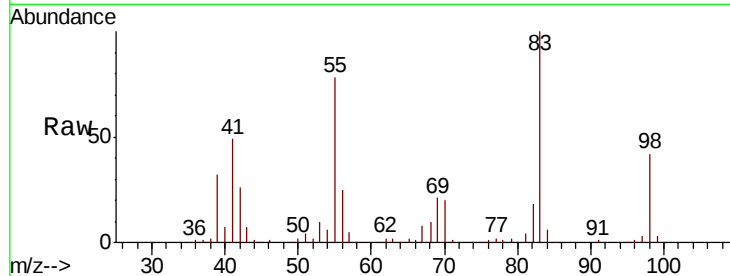
#39
Methvlcvclohexane
Concen: 20.678 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. -0.00 min
Lab File: VN052057.D
Acq: 30 Oct 2018 10:18

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
83	100		
55	78.2	62.0	93.0
98	41.9	34.7	52.1

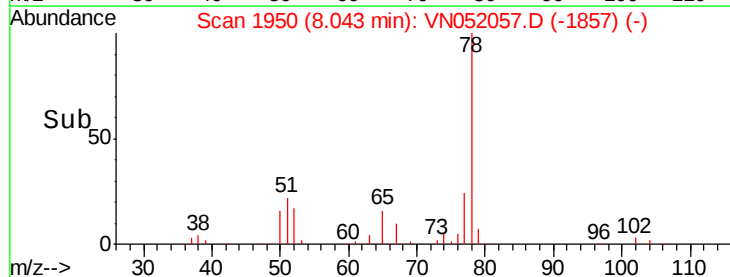
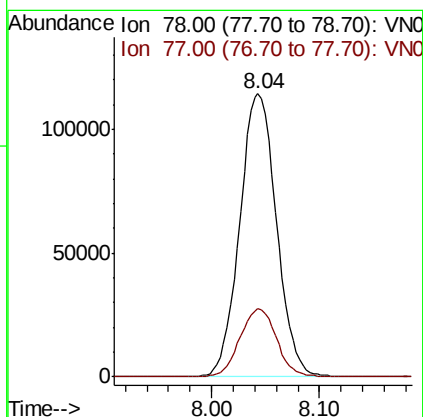
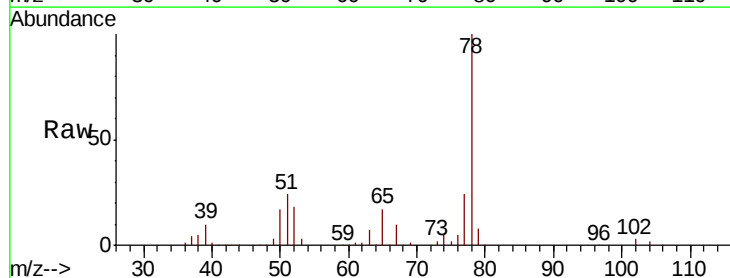
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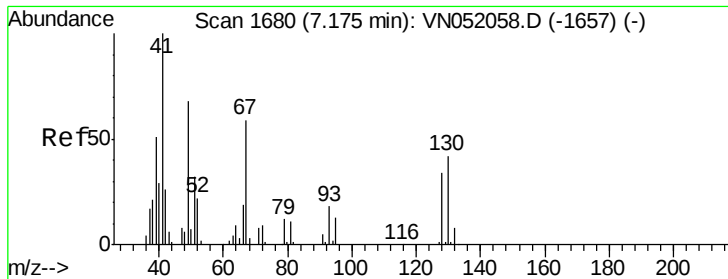
MMDadoda
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#40
Benzene
Concen: 21.748 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. -0.00 min
Lab File: VN052057.D
Acq: 30 Oct 2018 10:18

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.0	19.8	29.6





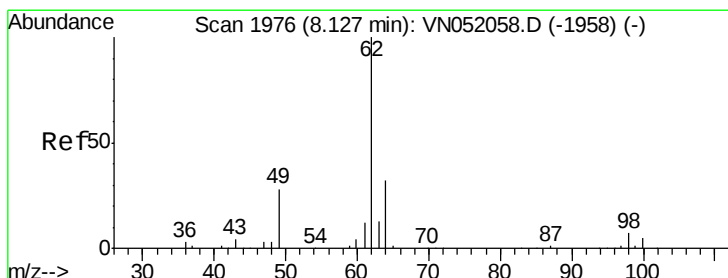
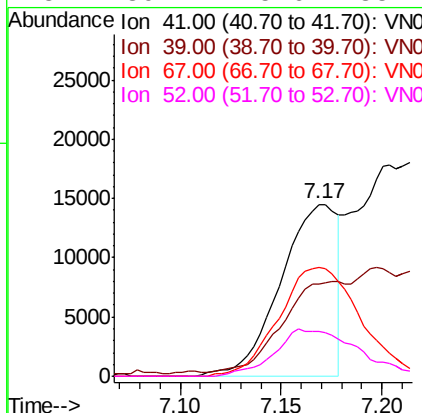
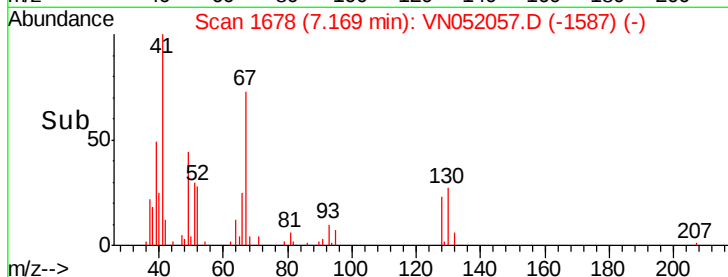
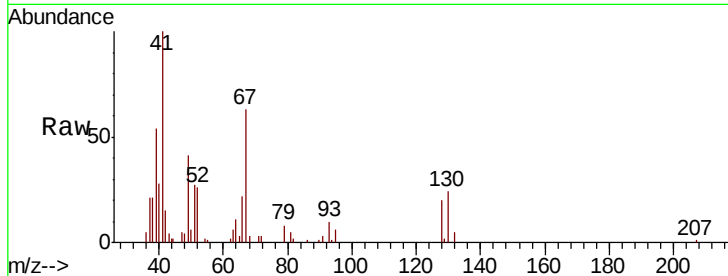
#41
Methacrylonitrile
Concen: 28.081 ug/l
RT: 7.17 min Scan# 1678
Delta R.T. -0.01 min
Lab File: VN052057.D
Acq: 30 Oct 2018 10:18

Instrument :
MSVOA_N
ClientSampleID :
VSTDIC020

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	56.9	33.2	49.8#	
67	90.6	63.5	95.3	
52	39.7	25.6	38.4#	

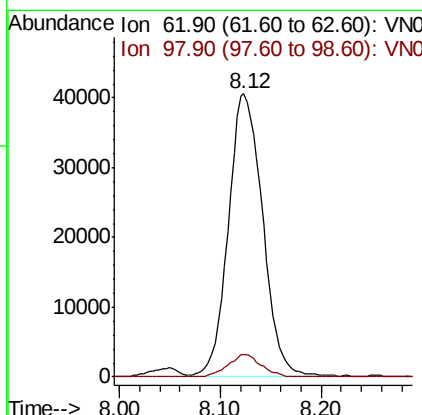
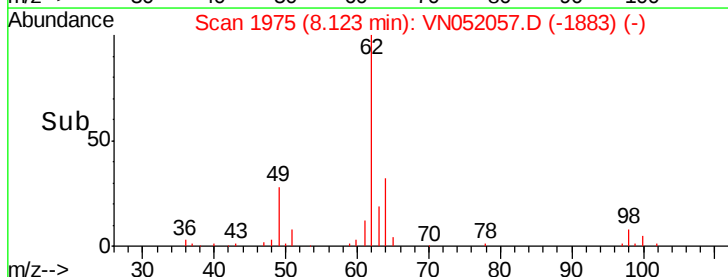
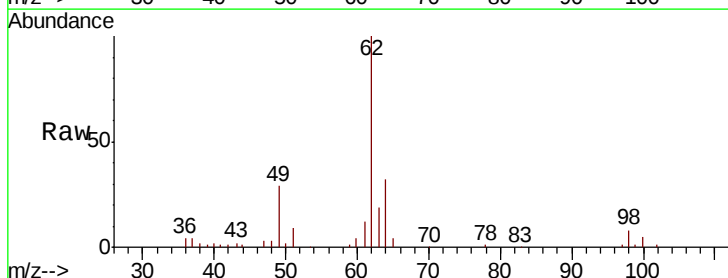
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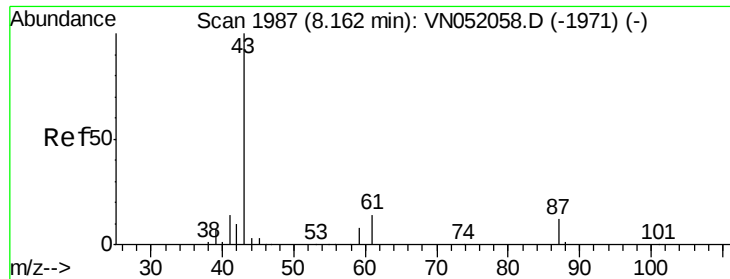
MMDadoda
11/1/2018 11:47:51 AM



#42
1,2-Dichloroethane
Concen: 19.409 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. -0.00 min
Lab File: VN052057.D
Acq: 30 Oct 2018 10:18

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	7.5	0.0	15.2	





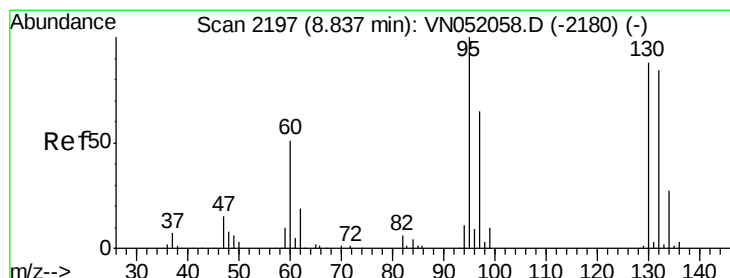
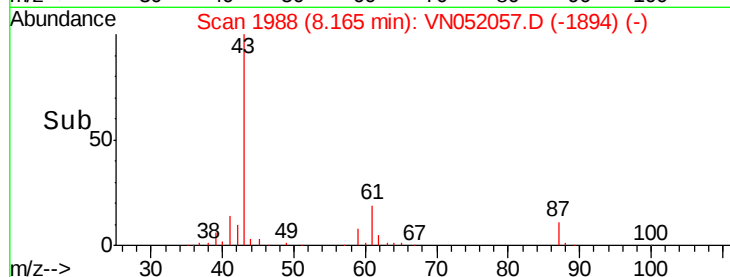
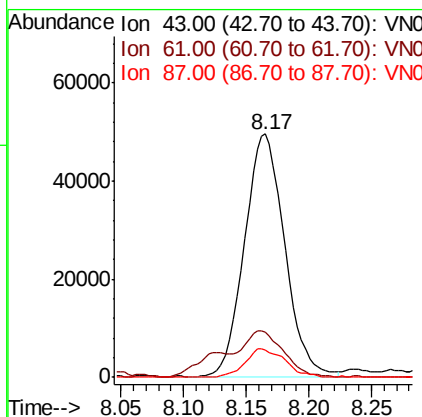
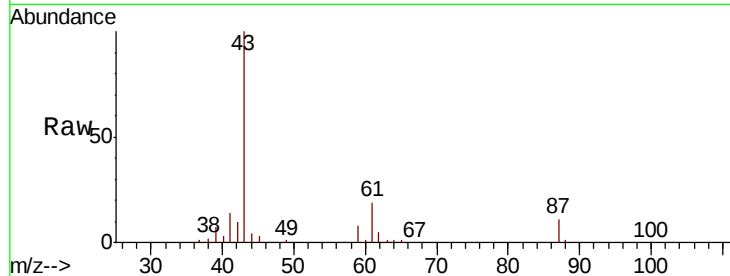
#43
Isopropyl Acetate
Concen: 21.655 ug/l
RT: 8.17 min Scan# 1988
Delta R.T. 0.00 min
Lab File: VN052057.D
Acq: 30 Oct 2018 10:18

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
43	100		
61	18.3	15.4	23.0
87	11.7	9.8	14.8

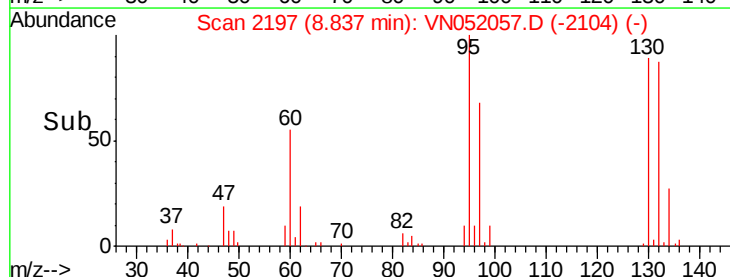
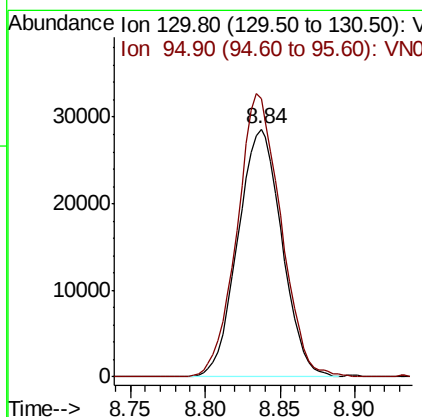
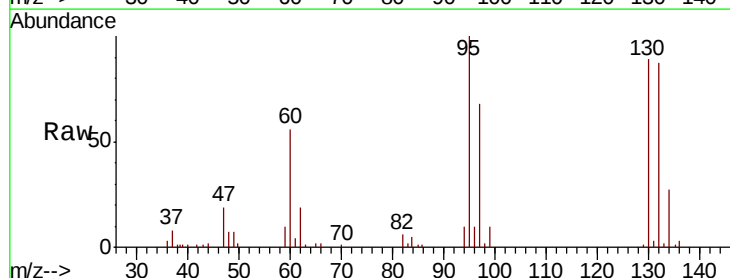
Manual Integrations
APPROVED

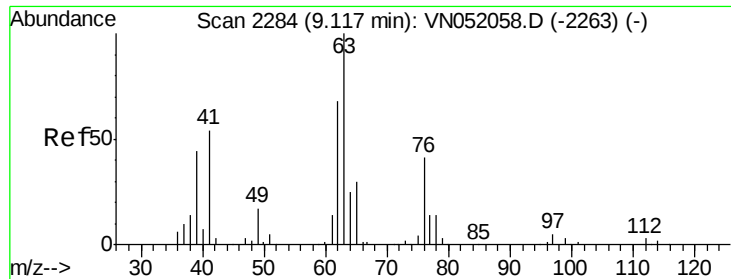
MMDadoda
11/1/2018 11:47:51 AM



#44
Trichloroethene
Concen: 21.310 ug/l
RT: 8.84 min Scan# 2197
Delta R.T. -0.00 min
Lab File: VN052057.D
Acq: 30 Oct 2018 10:18

Tgt Ion	Ratio	Lower	Upper
130	100		
95	112.3	0.0	228.4





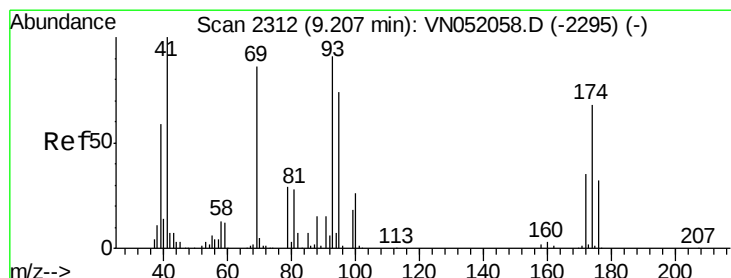
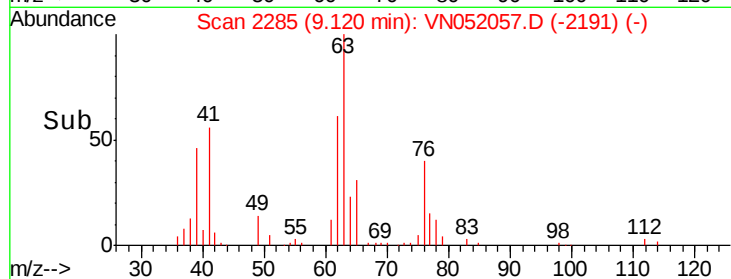
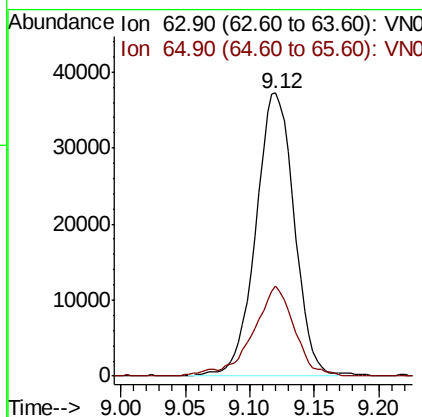
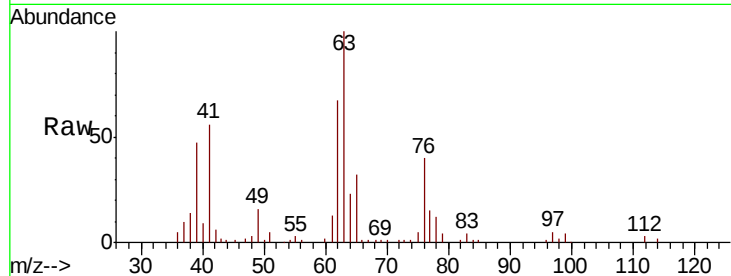
#45
 1,2-Dichloropropane
 Concen: 20.505 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN052057.D
 Acq: 30 Oct 2018 10:18

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion: 63 Resp: 77413
 Ion Ratio Lower Upper
 63 100
 65 30.9 24.5 36.7

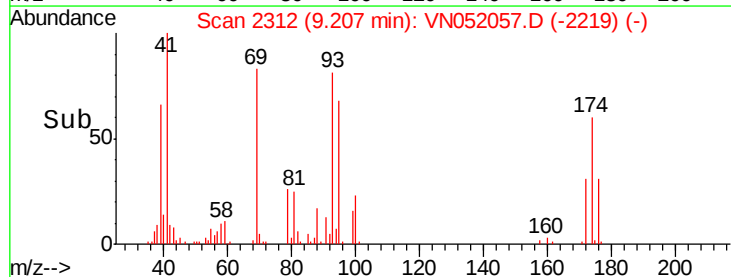
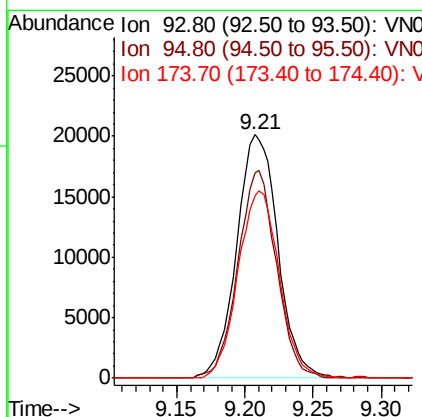
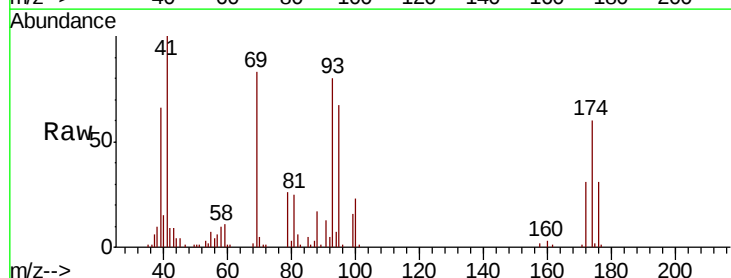
Manual Integrations
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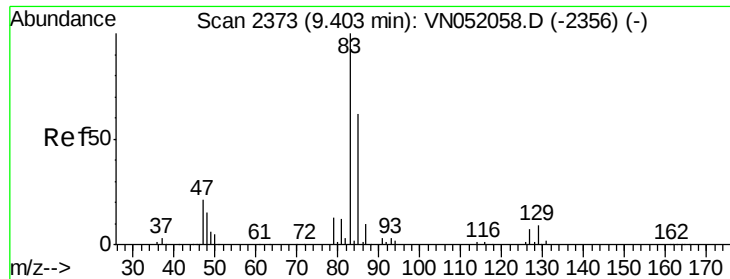
MMDadoda
 11/1/2018 11:47:51 AM



#46
 Dibromomethane
 Concen: 21.939 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. -0.00 min
 Lab File: VN052057.D
 Acq: 30 Oct 2018 10:18

Tgt Ion: 93 Resp: 42265
 Ion Ratio Lower Upper
 93 100
 95 79.8 67.2 100.8
 174 76.6 59.7 89.5





#47

Bromodichloromethane

Concen: 21.981 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. -0.00 min

Lab File: VN052057.D

Acq: 30 Oct 2018 10:18

Instrument :

MSVOA_N

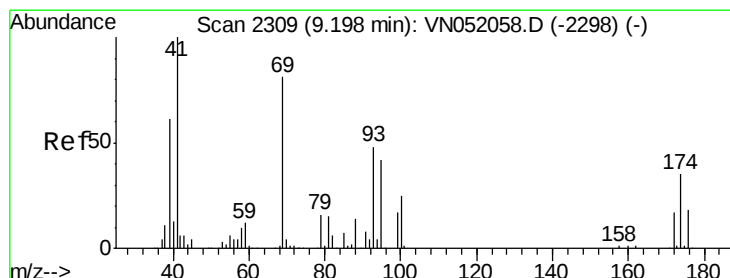
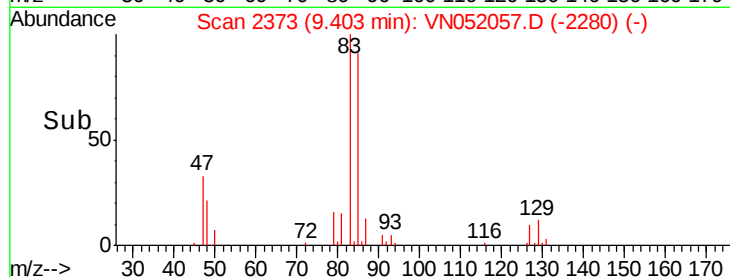
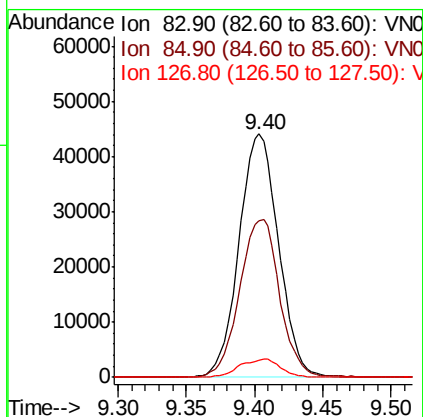
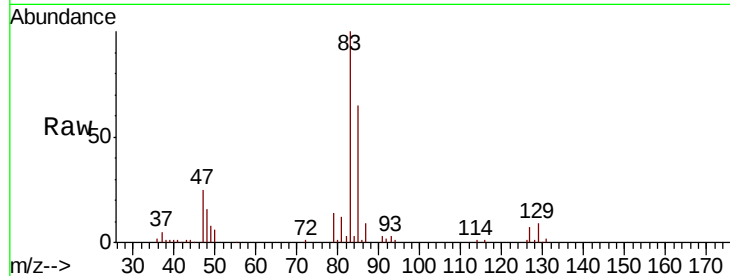
ClientSampleId :

VSTDIC020

Tot Ion:	83	Resp:	88404
Ion	Ratio	Lower	Upper
83	100		
85	64.6	49.4	74.2
127	6.8	5.8	8.8

Manual Integrations
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MMDadoda
11/1/2018 11:47:51 AM



#48

Methyl methacrylate

Concen: 21.626 ug/l

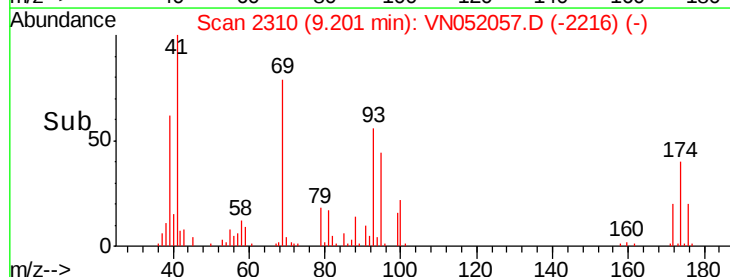
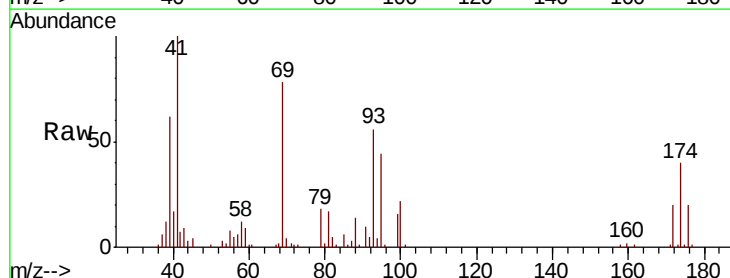
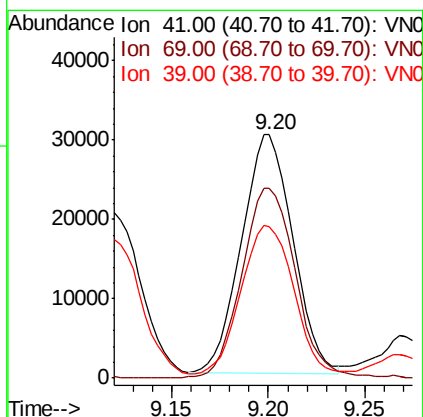
RT: 9.20 min Scan# 2310

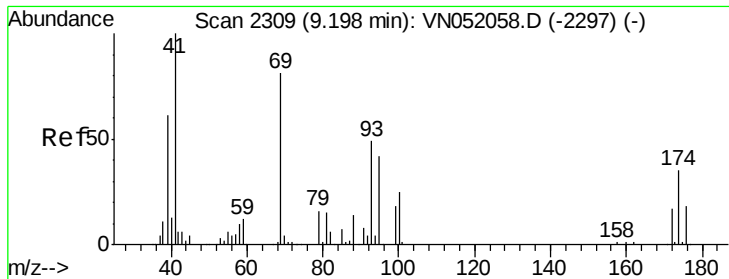
Delta R.T. 0.00 min

Lab File: VN052057.D

Acq: 30 Oct 2018 10:18

Tgt Ion:	41	Resp:	55645
Ion	Ratio	Lower	Upper
41	100		
69	83.1	67.1	100.7
39	64.7	50.5	75.7





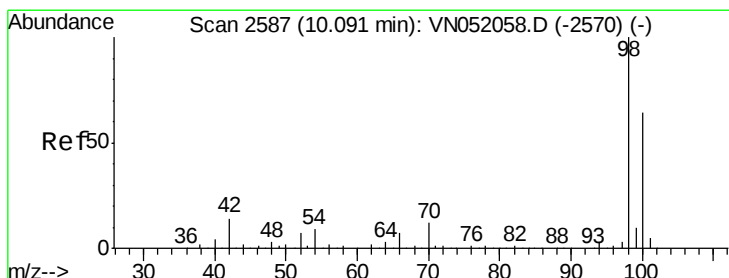
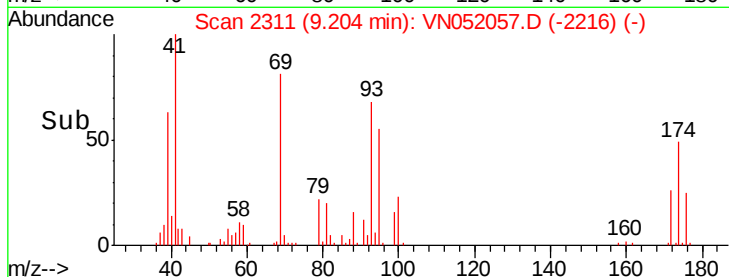
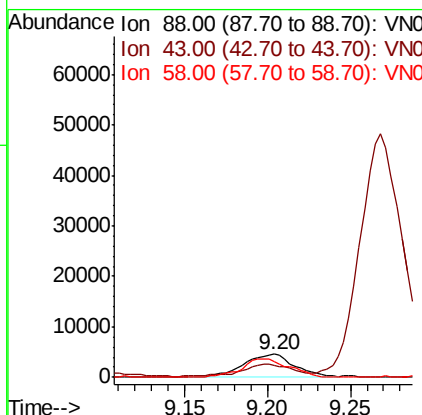
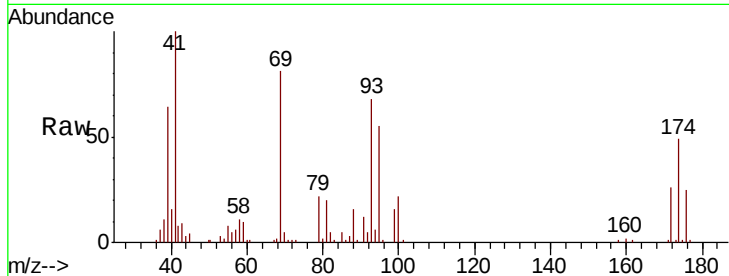
#49
1,4-Dioxane
Concen: 776.499 ug/l
RT: 9.20 min Scan# 2311
Delta R.T. 0.01 min
Lab File: VN052057.D
Acq: 30 Oct 2018 10:18

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
88	100		
43	50.1	34.1	51.1
58	74.7	62.8	94.2

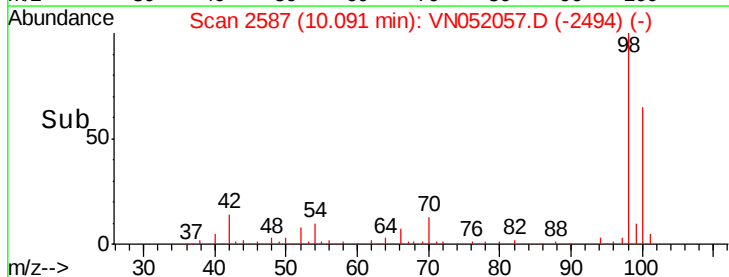
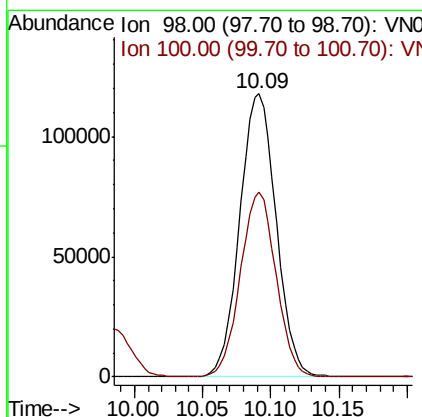
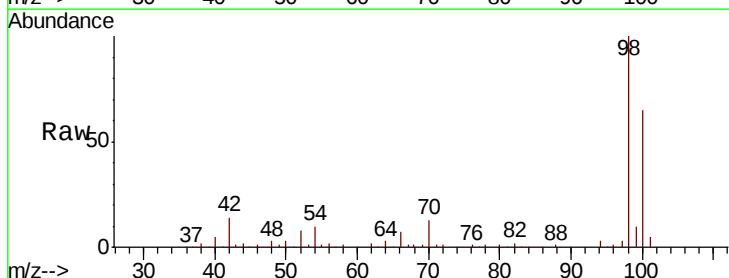
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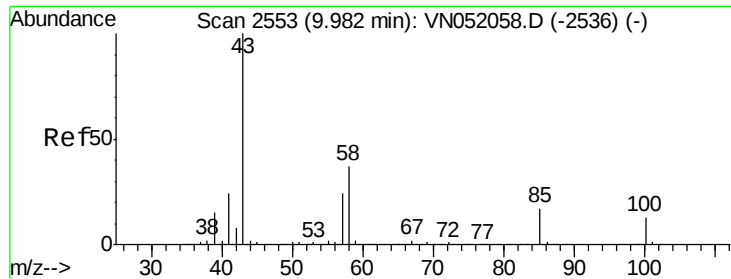
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#50
Toluene-d8
Concen: 776.499 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN052057.D
Acq: 30 Oct 2018 10:18

Tgt Ion	Ratio	Lower	Upper
98	100		
100	63.9	51.4	77.2





#51

4-Methyl-2-Pentanone

Concen: 111.878 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN052057.D

Acq: 30 Oct 2018 10:18

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 308745

Ion Ratio Lower Upper

43 100

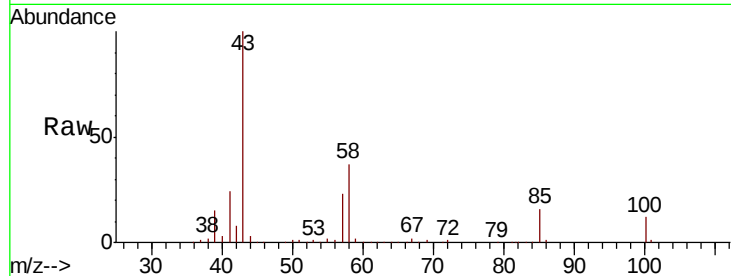
58 36.9 29.7 44.5

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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

200000

150000

100000

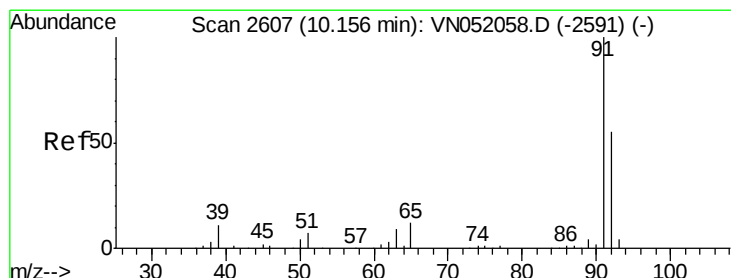
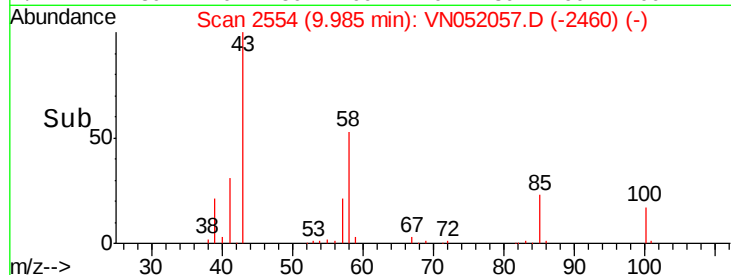
50000

0

9.90

10.00

Time-->



#52

Toluene

Concen: 21.484 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN052057.D

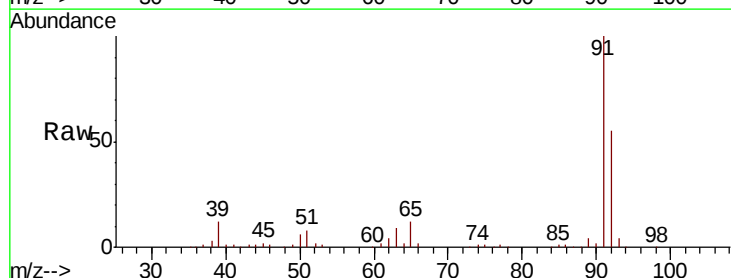
Acq: 30 Oct 2018 10:18

Tgt Ion: 92 Resp: 160934

Ion Ratio Lower Upper

92 100

91 179.5 143.9 215.9



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0

150000

100000

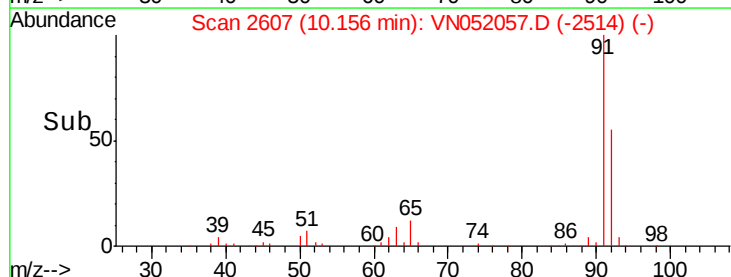
50000

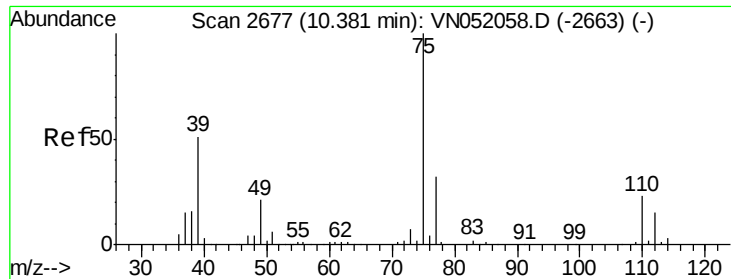
0

10.10

10.20

Time-->





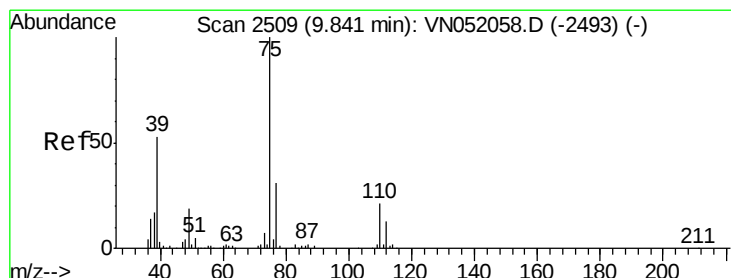
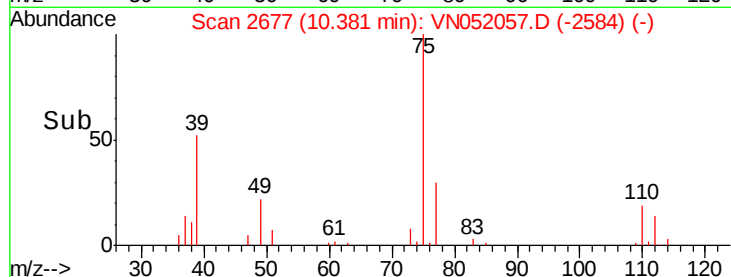
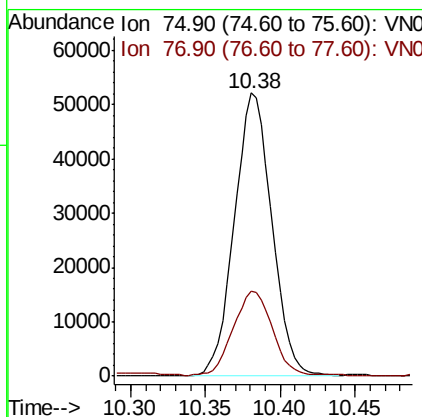
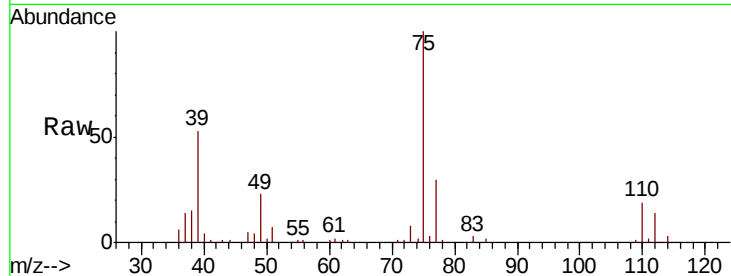
#53
t-1,3-Dichloropropene
Concen: 21.140 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. -0.00 min
Lab File: VN052057.D
Acq: 30 Oct 2018 10:18

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion	75	Resp	91031
Ion Ratio	Lower	Upper	
75	100		
77	29.8	25.6	38.4

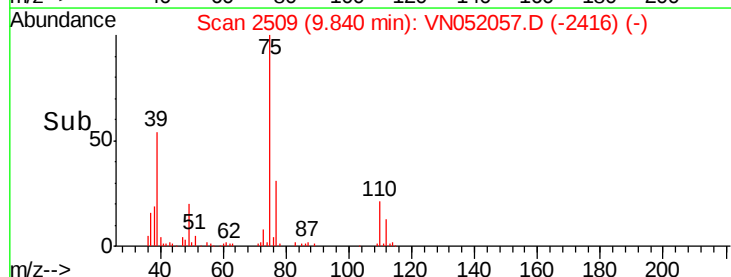
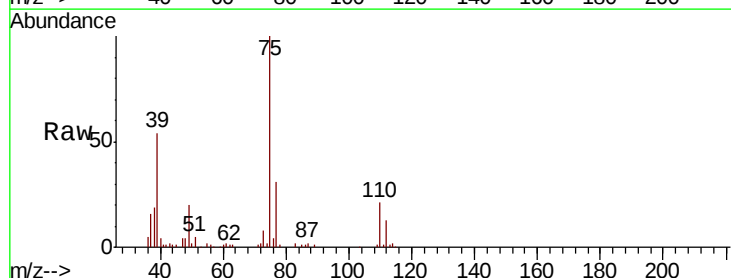
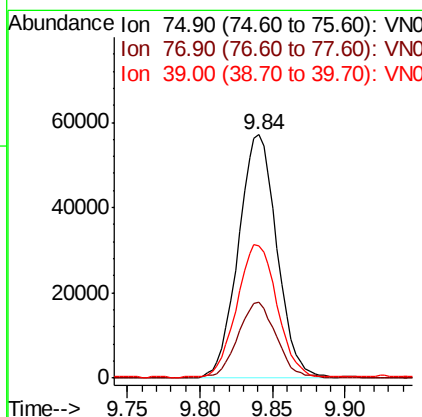
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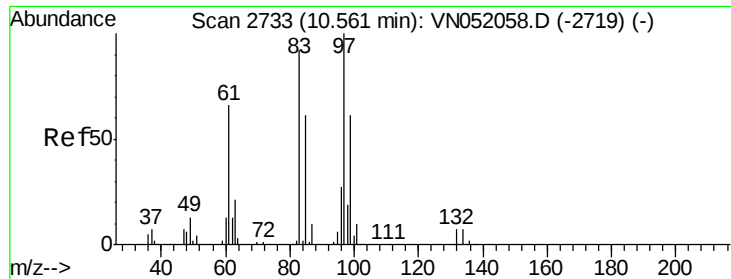
MMDadoda
11/1/2018 11:47:51 AM



#54
cis-1,3-Dichloropropene
Concen: 22.638 ug/l
RT: 9.84 min Scan# 2509
Delta R.T. -0.00 min
Lab File: VN052057.D
Acq: 30 Oct 2018 10:18

Tgt Ion	75	Resp	105694
Ion Ratio	Lower	Upper	
75	100		
77	31.3	25.0	37.4
39	54.0	42.3	63.5





#55

1,1,2-Trichloroethane

Concen: 21.132 ug/l

RT: 10.56 min Scan# 2733

Delta R.T. -0.00 min

Lab File: VN052057.D

Acq: 30 Oct 2018 10:18

Instrument :

MSVOA_N

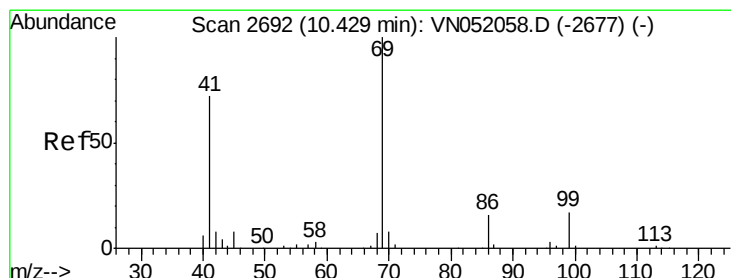
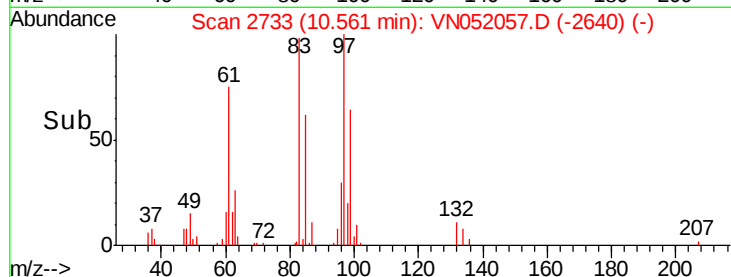
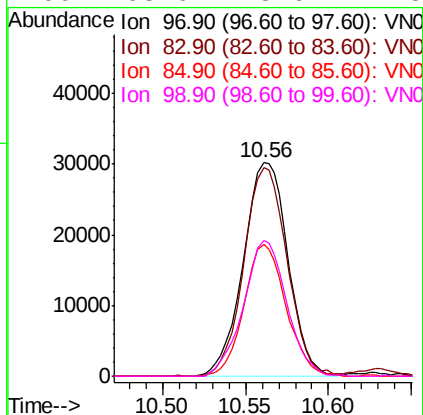
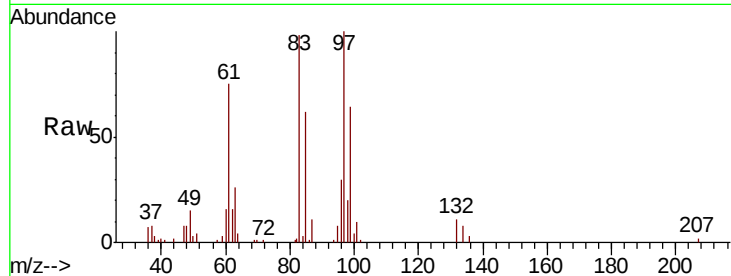
ClientSampled :

VSTDIC020

Tot Ion:	97	Resp:	56629
Ion	Ratio	Lower	Upper
97	100		
83	97.6	73.8	110.8
85	62.0	48.4	72.6
99	63.6	48.6	72.8

Manual Integrations
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#56

Ethyl methacrylate

Concen: 20.278 ug/l

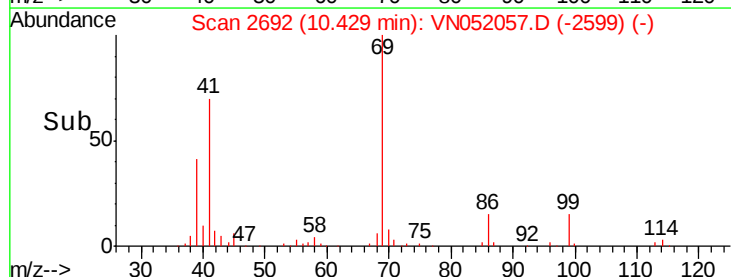
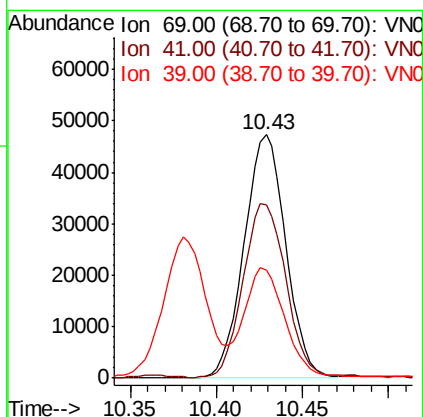
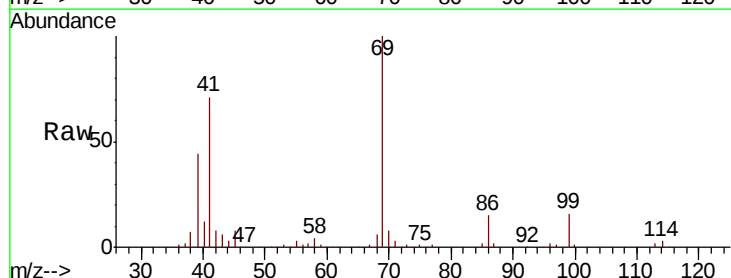
RT: 10.43 min Scan# 2692

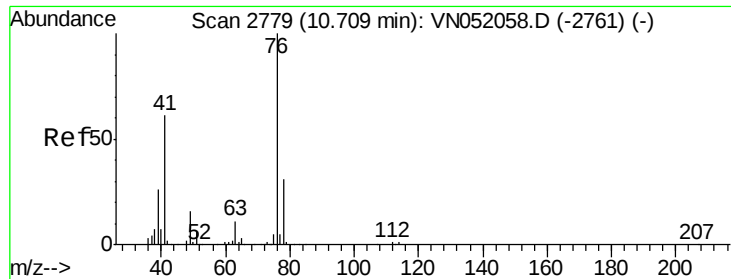
Delta R.T. -0.00 min

Lab File: VN052057.D

Acq: 30 Oct 2018 10:18

Tgt Ion:	69	Resp:	79509
Ion	Ratio	Lower	Upper
69	100		
41	73.6	55.5	83.3
39	43.7	33.0	49.4





#57

1,3-Dichloropropane

Concen: 21.426 ug/l

RT: 10.71 min Scan# 2778

Delta R.T. -0.00 min

Lab File: VN052057.D

Acq: 30 Oct 2018 10:18

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 76 Resp: 105634

Ion Ratio Lower Upper

76 100

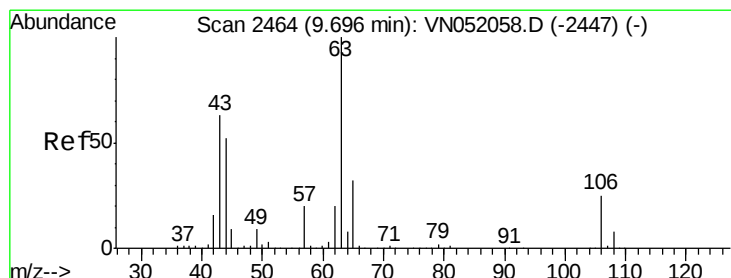
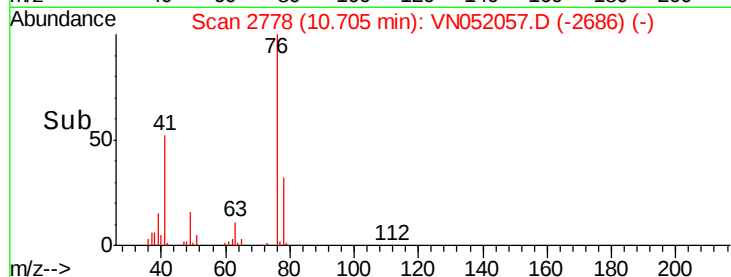
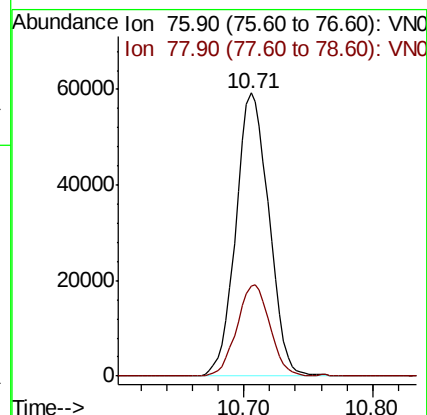
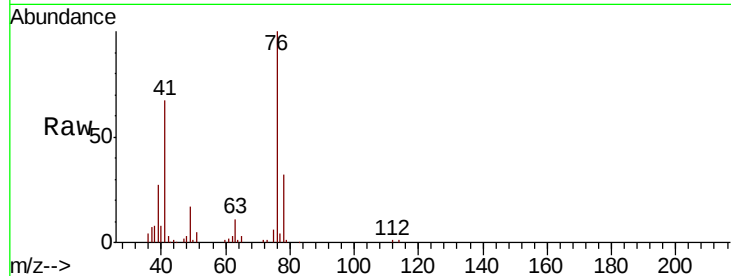
78 32.1 25.4 38.0

Manual Integrations

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11/1/2018 11:47:51 AM



#58

2-Chloroethyl Vinyl ether

Concen: 109.371 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. -0.00 min

Lab File: VN052057.D

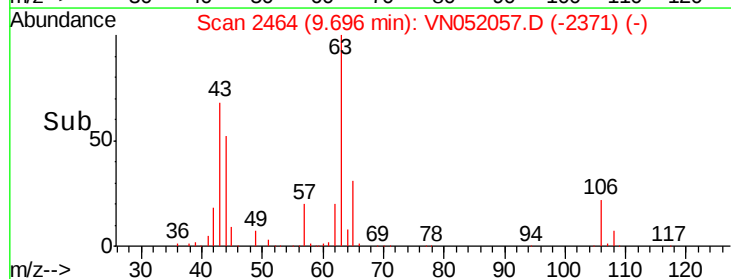
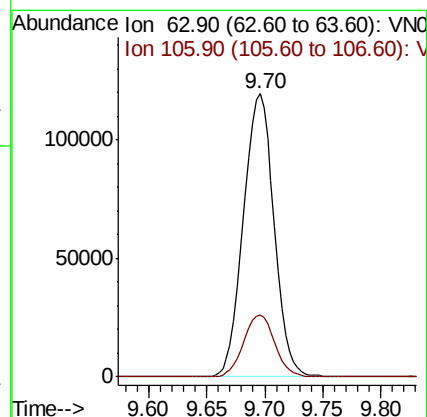
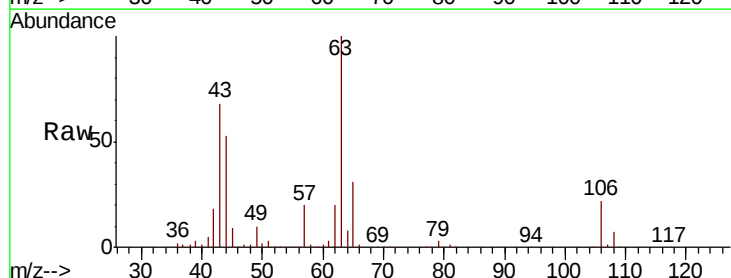
Acq: 30 Oct 2018 10:18

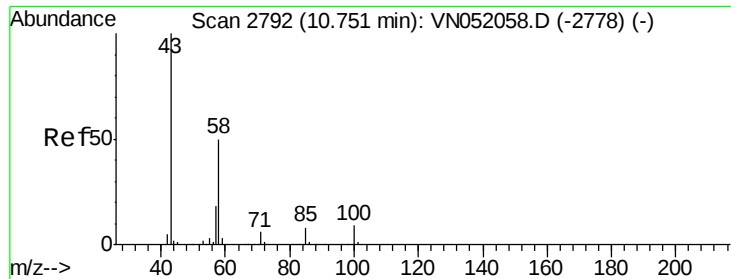
Tgt Ion: 63 Resp: 219694

Ion Ratio Lower Upper

63 100

106 22.3 19.4 29.2





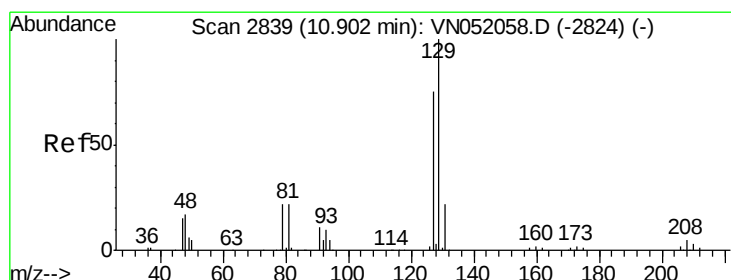
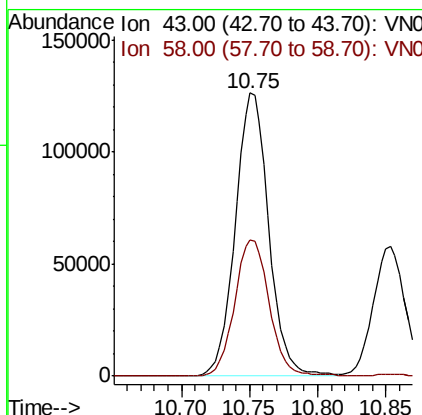
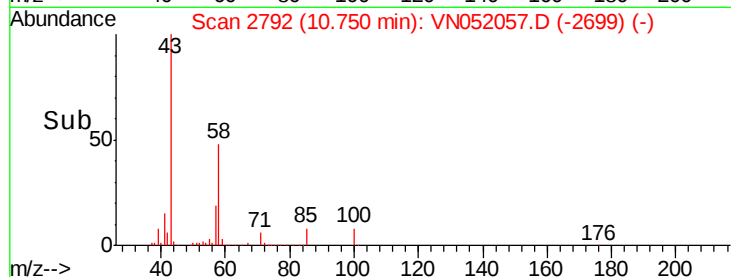
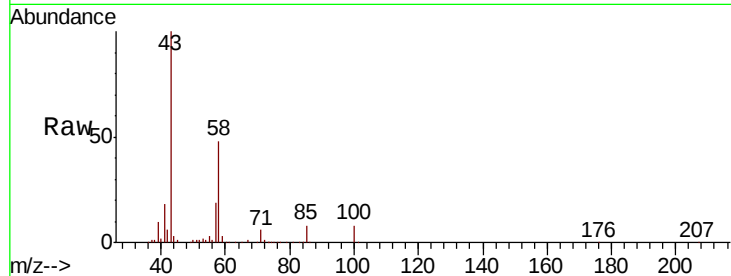
#59
2-Hexanone
Concen: 107.723 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. -0.00 min
Lab File: VN052057.D
Acq: 30 Oct 2018 10:18

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion: 43 Resp: 213501
Ion Ratio Lower Upper
43 100
58 50.0 25.2 75.6

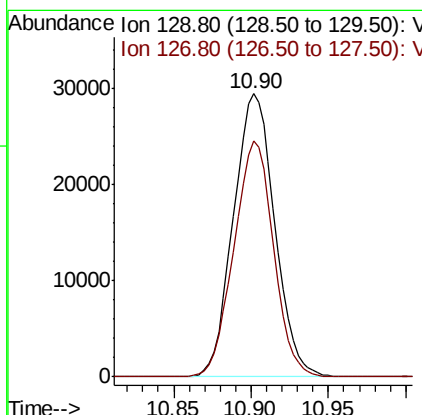
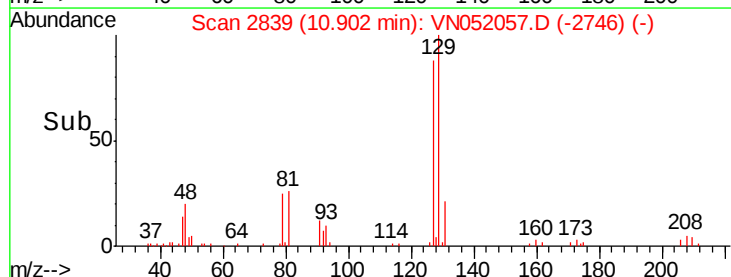
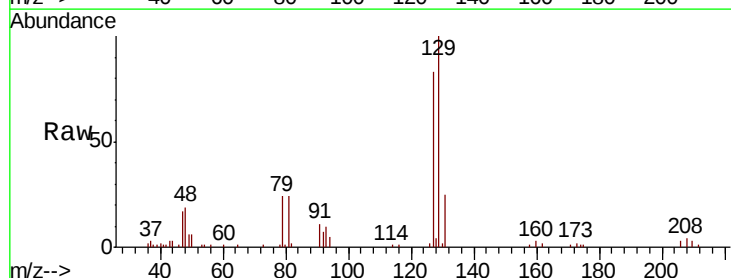
Manual Integrations
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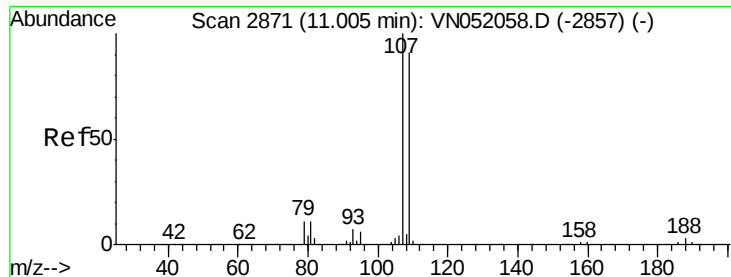
MMDadoda
11/1/2018 11:47:51 AM



#60
Dibromochloromethane
Concen: 21.477 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. -0.00 min
Lab File: VN052057.D
Acq: 30 Oct 2018 10:18

Tgt Ion:129 Resp: 54720
Ion Ratio Lower Upper
129 100
127 80.0 38.5 115.5





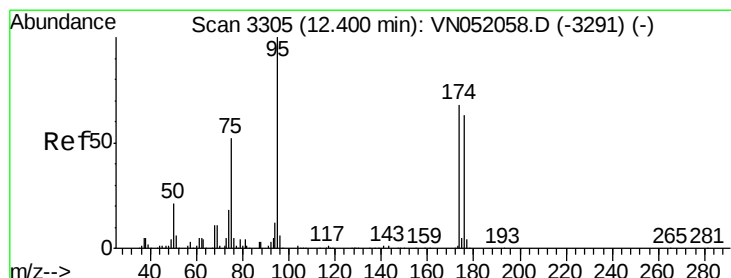
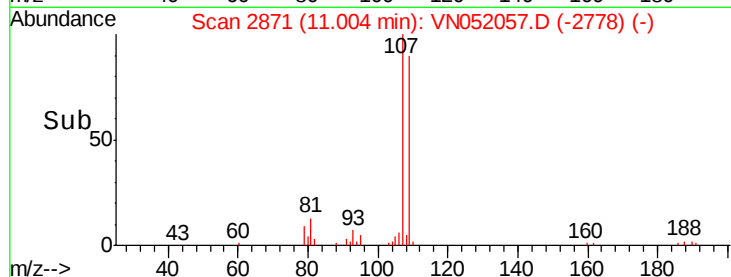
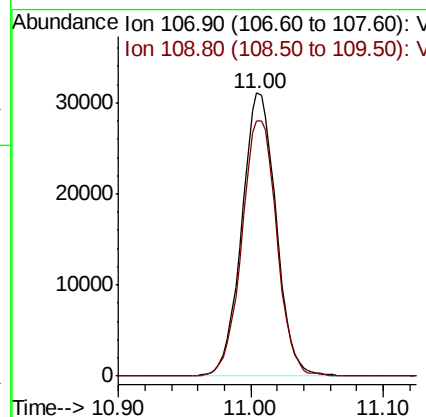
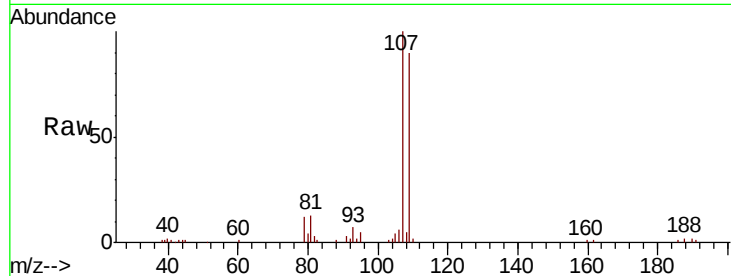
#61
 1,2-Dibromoethane
 Concen: 20.974 ug/l
 RT: 11.00 min Scan# 2871
 Delta R.T. -0.00 min
 Lab File: VN052057.D
 Acq: 30 Oct 2018 10:18

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
107	100		
109	92.0	75.1	112.7

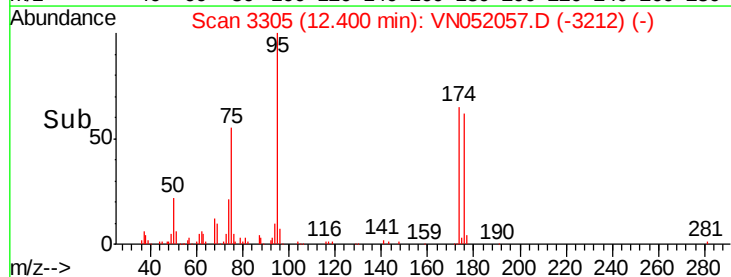
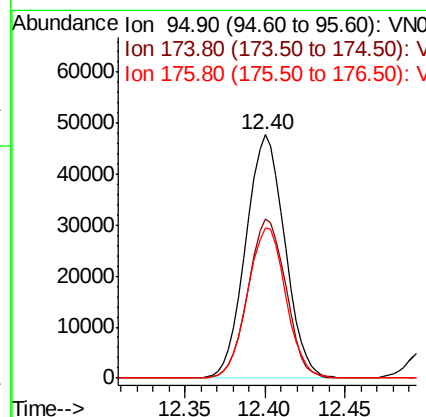
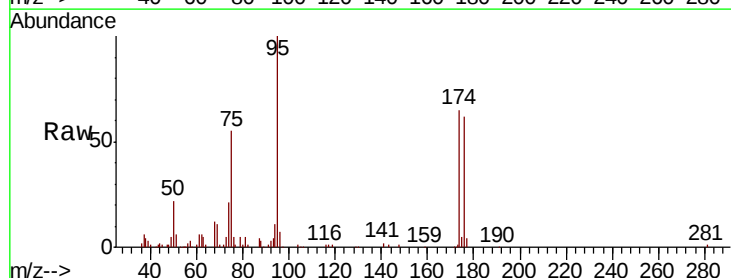
Manual Integrations
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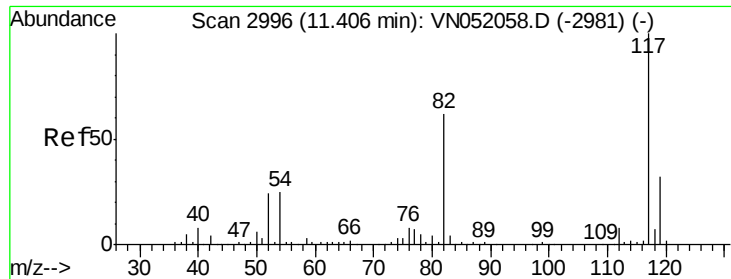
MMDadoda
 11/1/2018 11:47:51 AM



#62
 4-Bromofluorobenzene
 Concen: 20.974 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.00 min
 Lab File: VN052057.D
 Acq: 30 Oct 2018 10:18

Tgt Ion	Ratio	Lower	Upper
95	100		
174	63.2	0.0	131.8
176	60.5	0.0	126.0





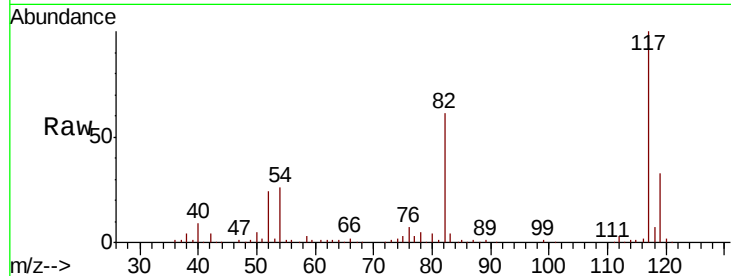
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN052057.D
Acq: 30 Oct 2018 10:18

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
117	100		
82	61.2	49.9	74.9
119	32.7	25.7	38.5

Manual Integrations
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MMDadoda
11/1/2018 11:47:51 AM

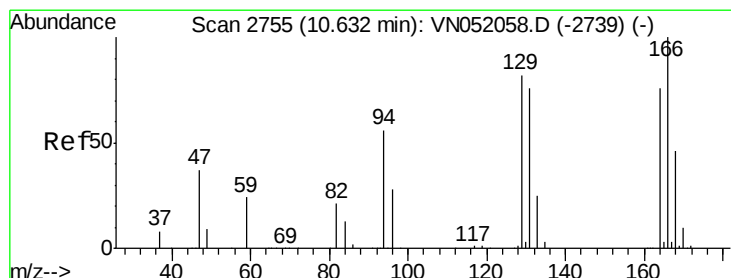
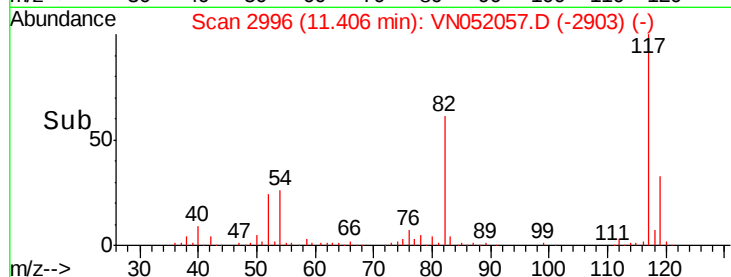
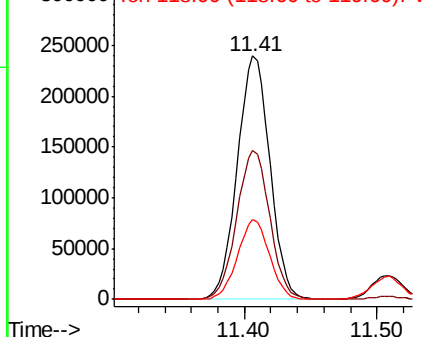


Abundance

Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#64
Tetrachloroethene
Concen: 20.628 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.00 min
Lab File: VN052057.D
Acq: 30 Oct 2018 10:18

Tgt Ion	Ratio	Lower	Upper
164	100		
166	123.8	105.4	158.0
129	105.5	86.1	129.1
131	102.7	80.3	120.5

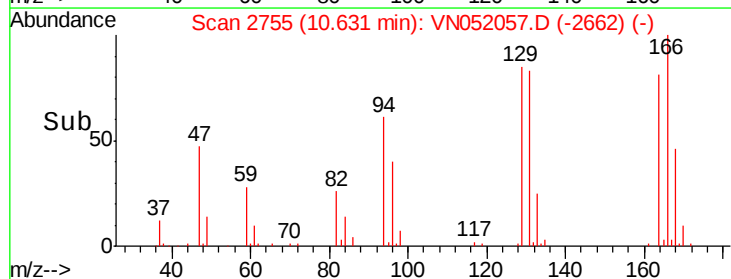
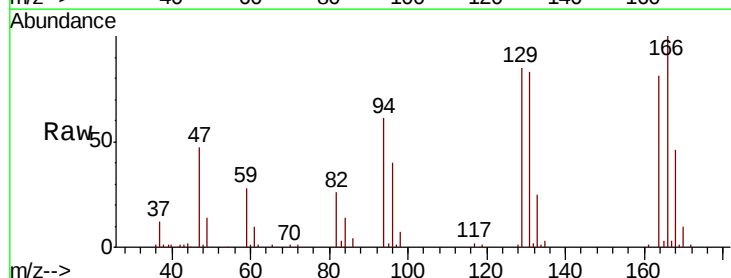
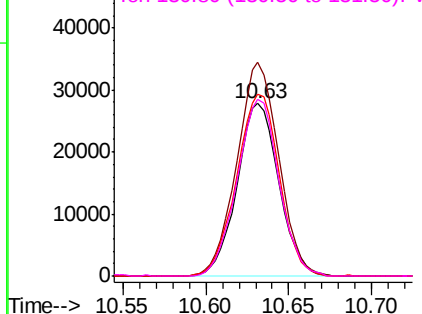
Abundance

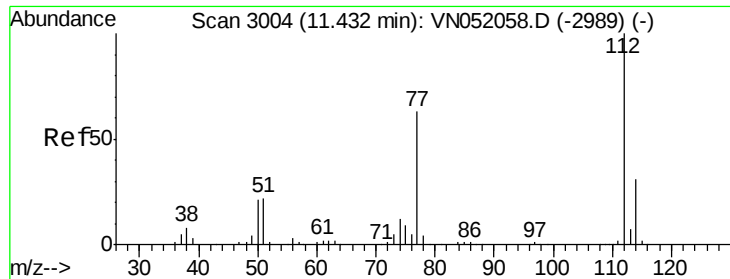
Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





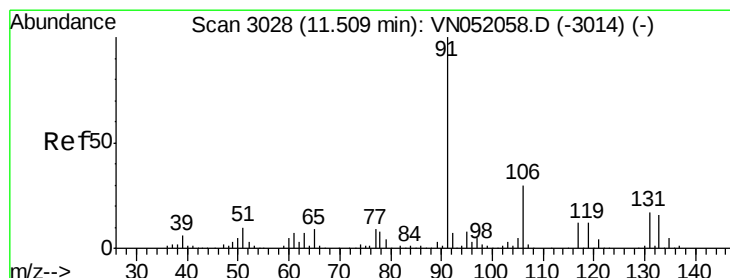
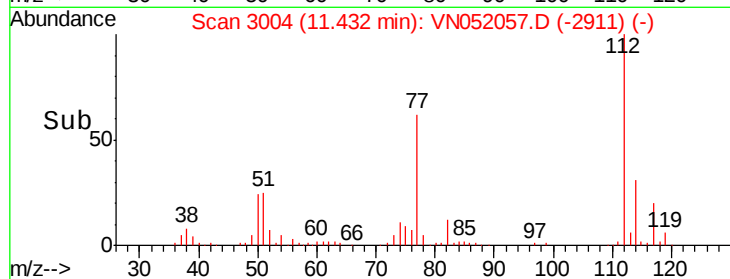
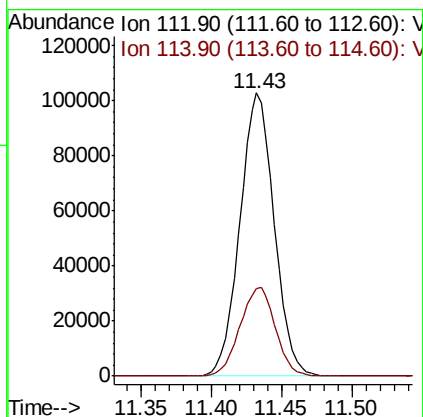
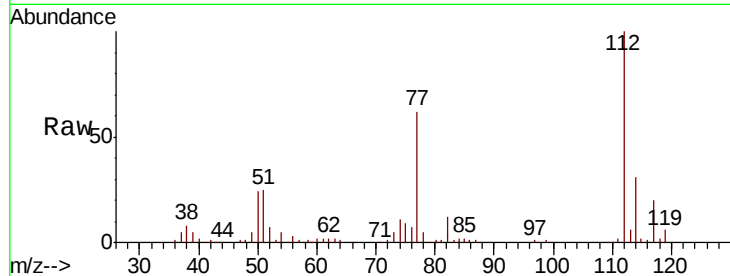
#65
Chlorobenzene
Concen: 20.822 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. -0.00 min
Lab File: VN052057.D
Acq: 30 Oct 2018 10:18

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion:112 Resp: 174879
Ion Ratio Lower Upper
112 100
114 31.1 25.1 37.7

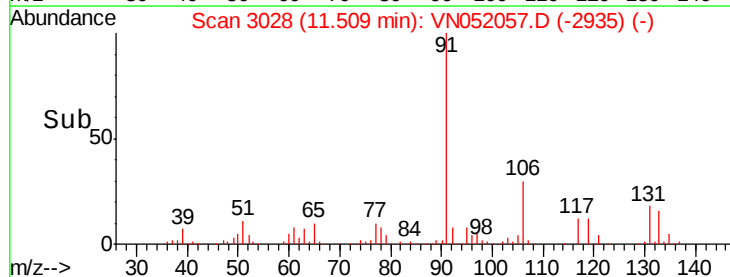
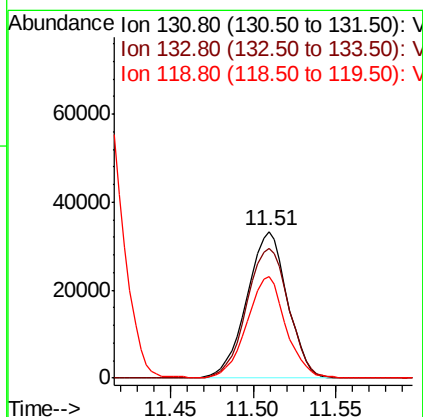
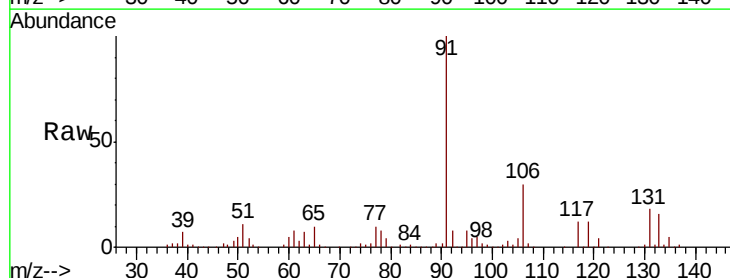
Manual Integrations
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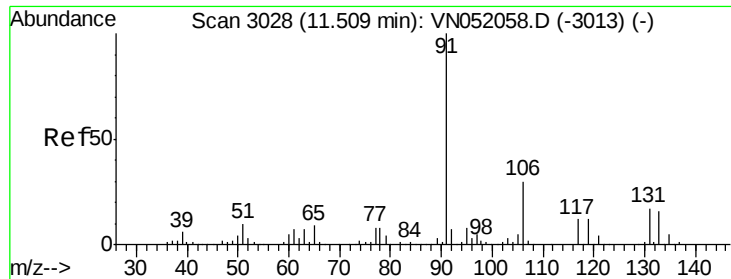
MMDadoda
11/1/2018 11:47:51 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 22.062 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN052057.D
Acq: 30 Oct 2018 10:18

Tgt Ion:131 Resp: 56521
Ion Ratio Lower Upper
131 100
133 92.3 47.6 142.9
119 66.6 34.4 103.2





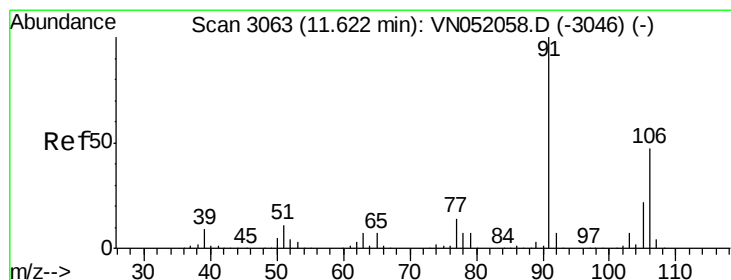
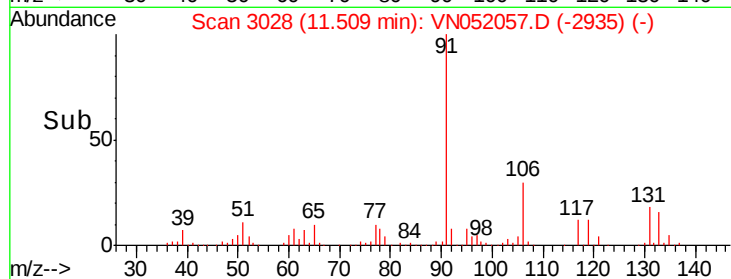
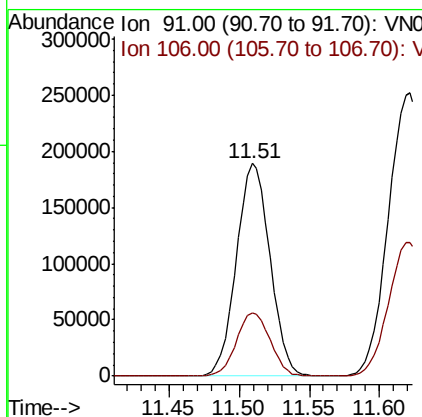
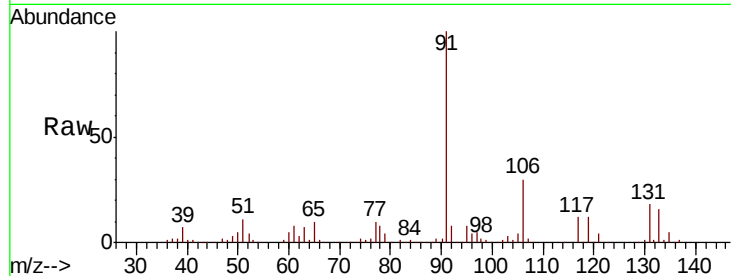
#67
Ethyl Benzene
Concen: 21.537 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN052057.D
Acq: 30 Oct 2018 10:18

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion: 91 Resp: 316856
Ion Ratio Lower Upper
91 100
106 30.0 24.1 36.1

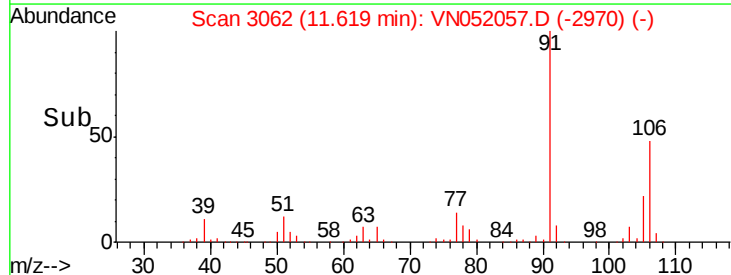
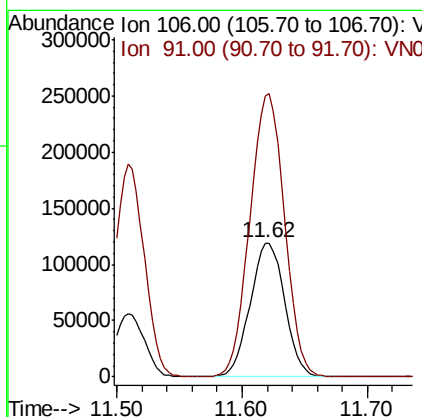
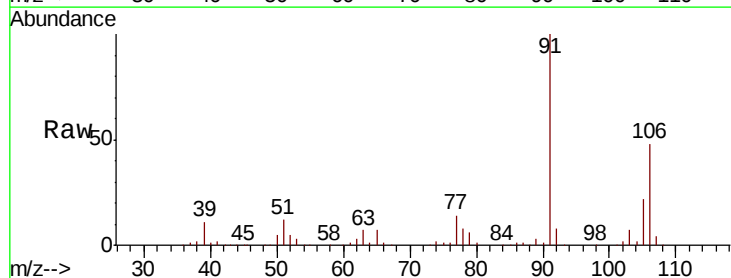
Manual Integrations
APPROVED

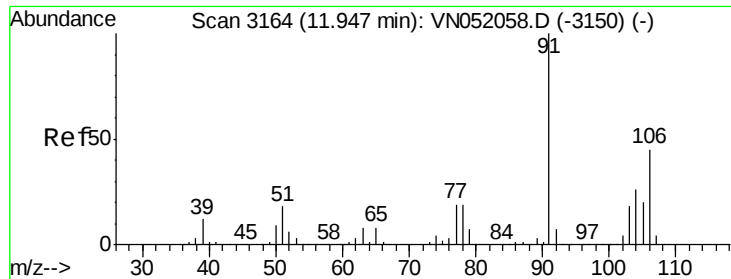
MMDadoda
11/1/2018 11:47:51 AM



#68
m/p-Xylenes
Concen: 44.752 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN052057.D
Acq: 30 Oct 2018 10:18

Tgt Ion: 106 Resp: 228517
Ion Ratio Lower Upper
106 100
91 211.9 168.7 253.1





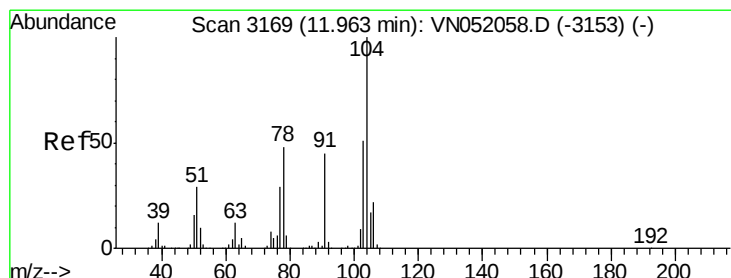
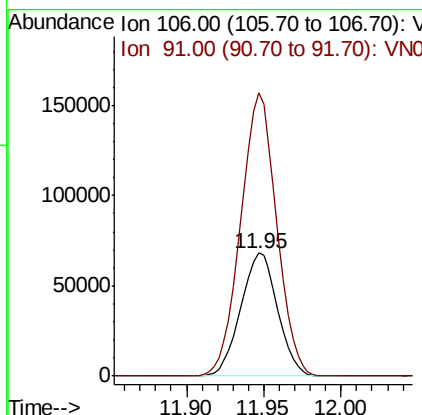
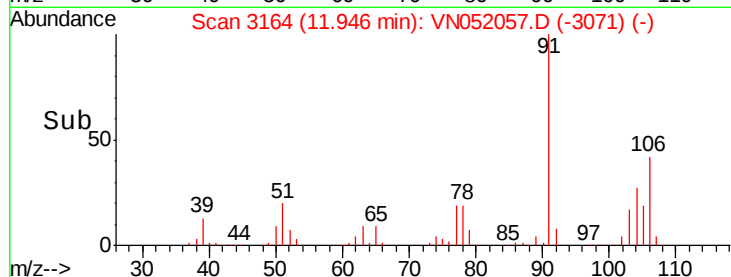
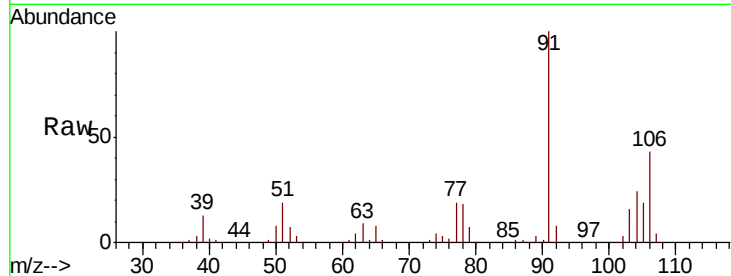
#69
o-Xylene
Concen: 22.723 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN052057.D
Acq: 30 Oct 2018 10:18

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion:106 Resp: 113183
Ion Ratio Lower Upper
106 100
91 224.1 109.6 328.6

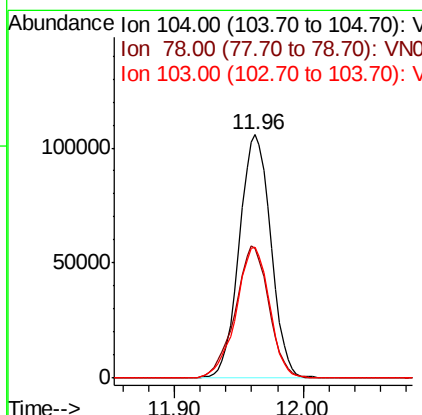
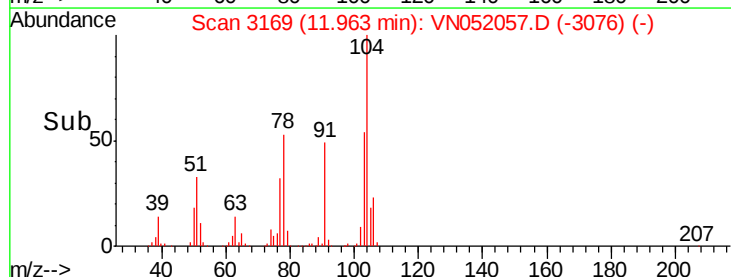
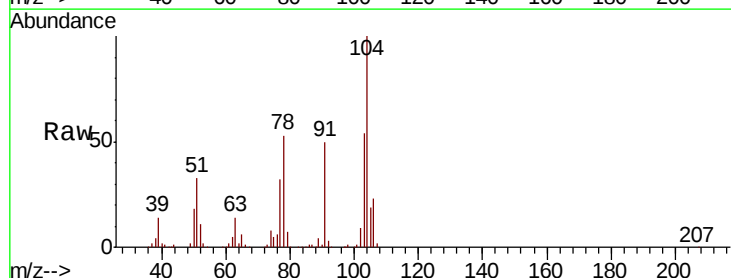
Manual Integrations
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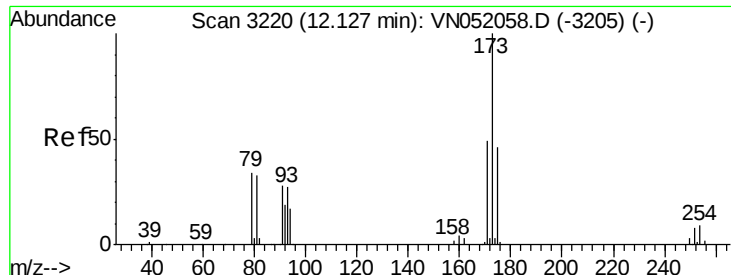
MMDadoda
11/1/2018 11:47:51 AM



#70
Styrene
Concen: 21.964 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN052057.D
Acq: 30 Oct 2018 10:18

Tgt Ion:104 Resp: 180381
Ion Ratio Lower Upper
104 100
78 57.9 43.0 64.6
103 56.8 45.1 67.7





#71

Bromoform

Concen: 21.902 ug/l

RT: 12.12 min Scan# 3219

Delta R.T. -0.00 min

Lab File: VN052057.D

Acq: 30 Oct 2018 10:18

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion:173 Resp: 29865

Ion Ratio Lower Upper

173 100

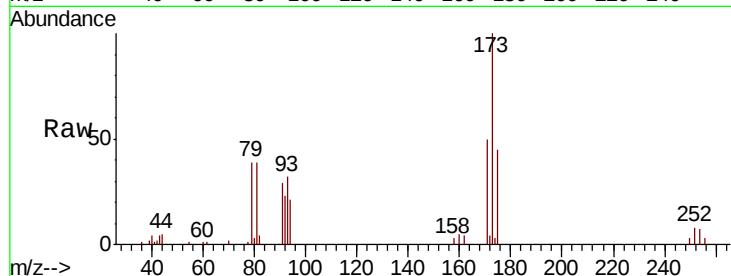
175 45.2 23.9 71.7

254 0.0 0.0 0.0

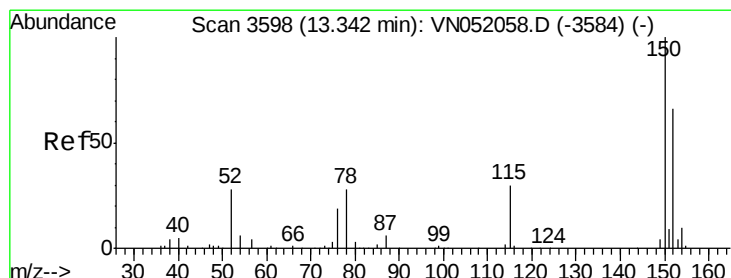
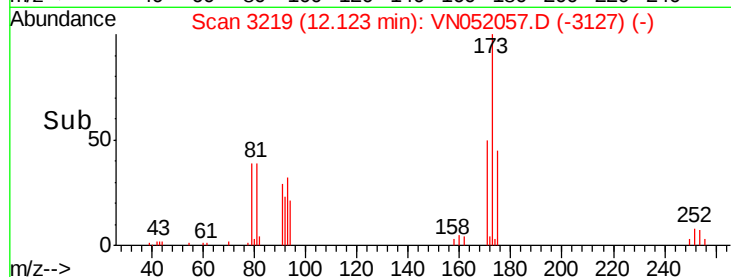
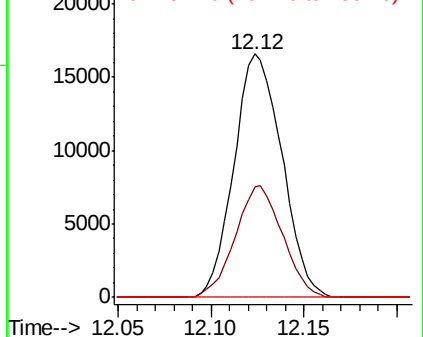
Manual Integrations
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Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN052057.D

Acq: 30 Oct 2018 10:18

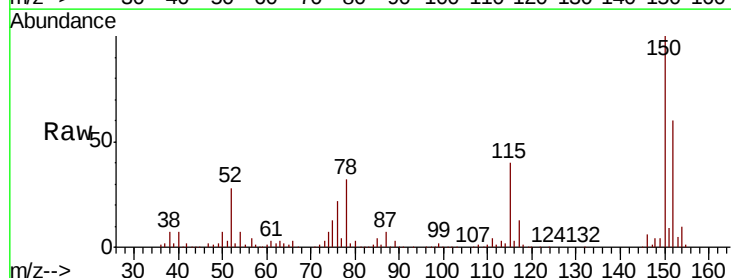
Tgt Ion:152 Resp: 164786

Ion Ratio Lower Upper

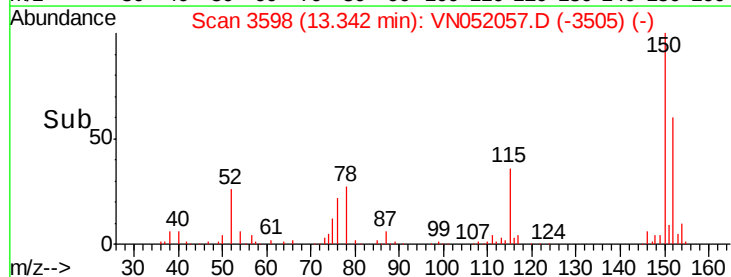
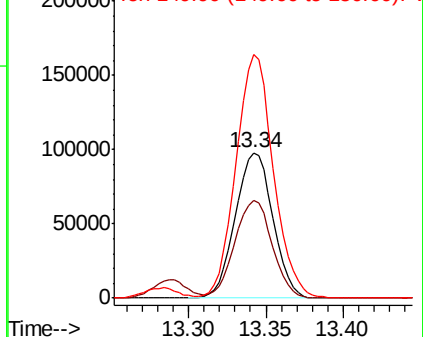
152 100

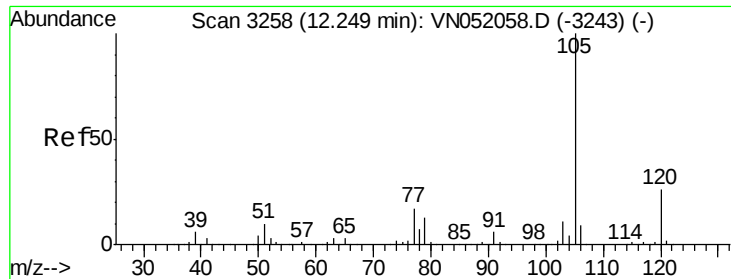
115 67.1 31.6 95.0

150 167.4 0.0 345.0



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





#73

Isopropylbenzene

Concen: 23.067 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN052057.D

Acq: 30 Oct 2018 10:18

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 105 Resp: 299504

Ion Ratio Lower Upper

105 100

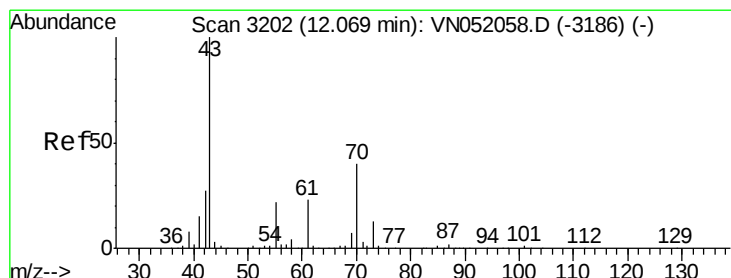
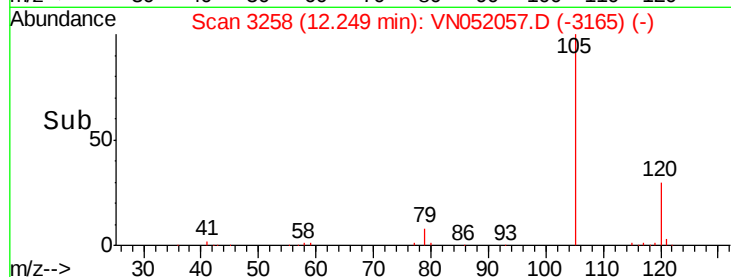
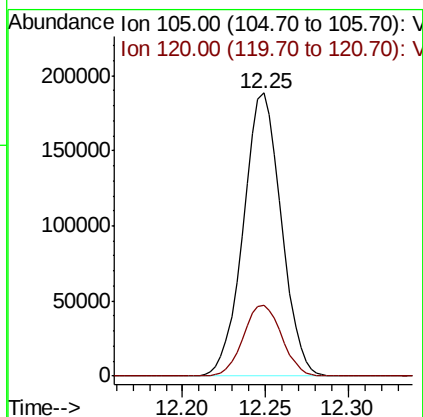
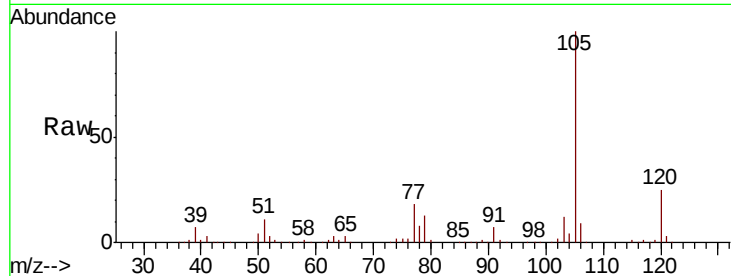
120 25.4 12.8 38.4

Manual Integrations

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#74

N-ethyl acetate

Concen: 20.293 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN052057.D

Acq: 30 Oct 2018 10:18

Tgt Ion: 43 Resp: 100132

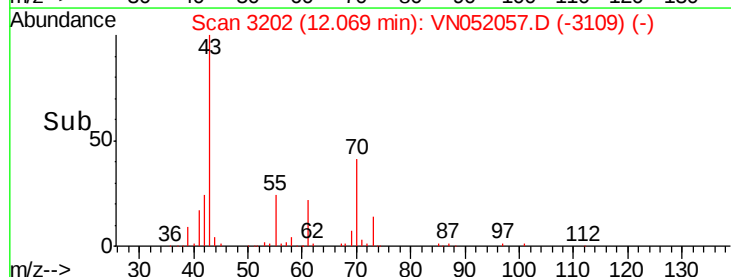
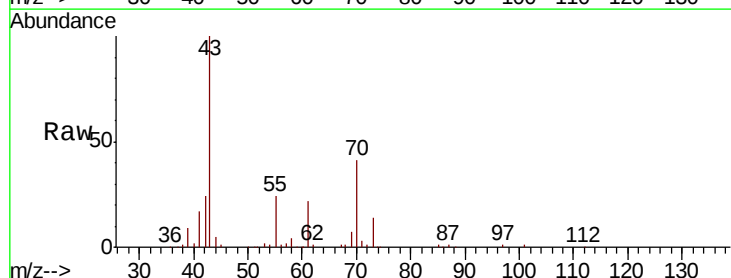
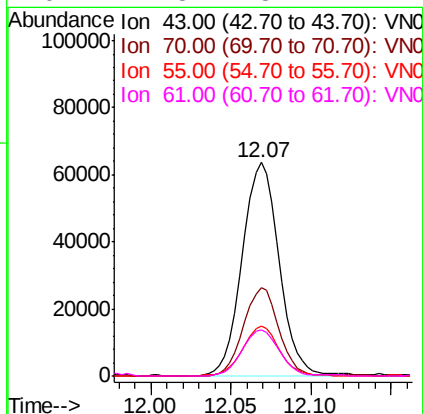
Ion Ratio Lower Upper

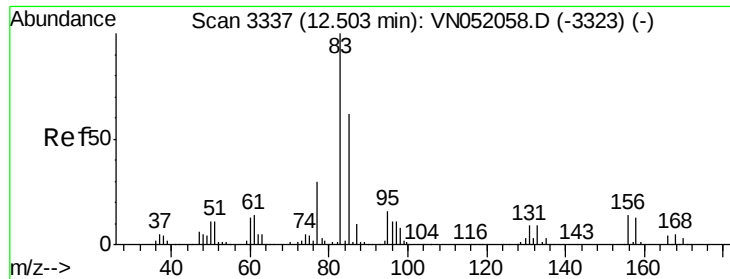
43 100

70 39.7 31.9 47.9

55 23.5 18.4 27.6

61 21.8 18.2 27.4





#75

1,1,2,2-Tetrachloroethane

Concen: 21.640 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. -0.00 min

Lab File: VN052057.D

Acq: 30 Oct 2018 10:18

Instrument :

MSVOA_N

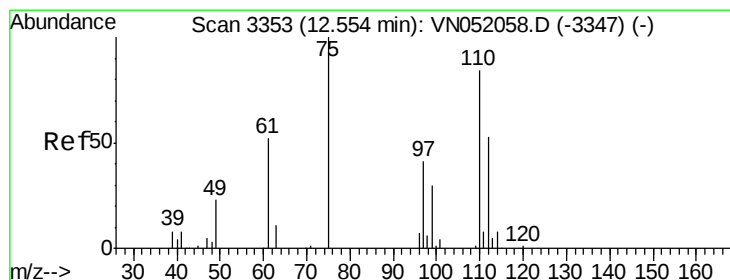
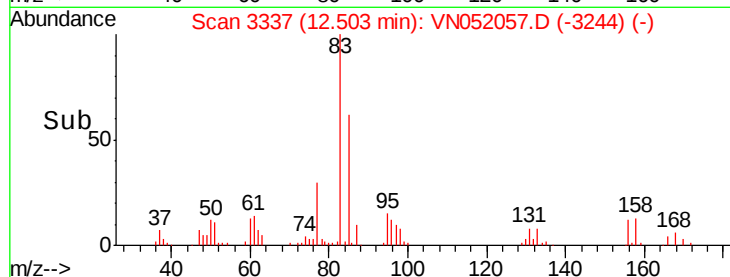
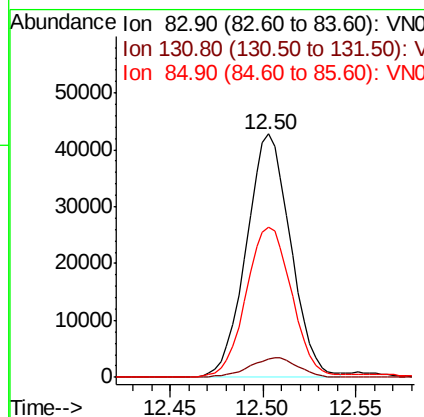
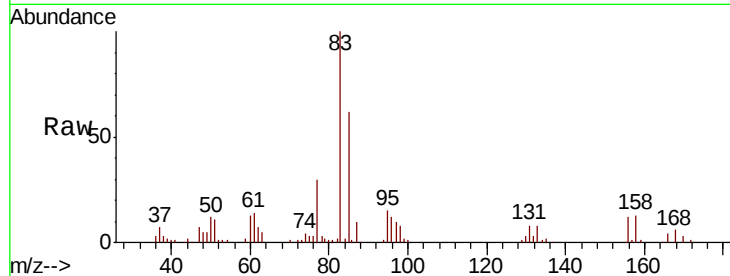
ClientSampleId :

VSTDIC020

Tot Ion:	83	Resp:	70825
Ion Ratio	Lower	Upper	
83	100		
131	8.8	4.5	13.4
85	63.5	31.3	93.9

Manual Integrations
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11/1/2018 11:47:51 AM



#76

1,2,3-Trichloropropane

Concen: 23.547 ug/l m

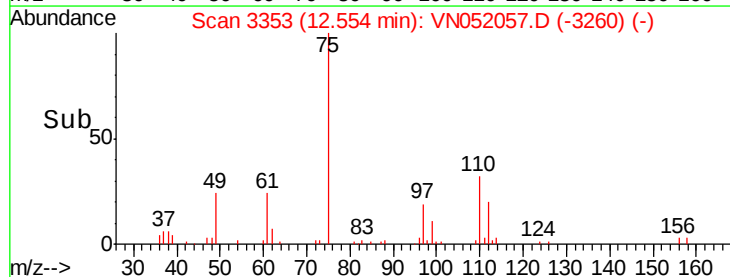
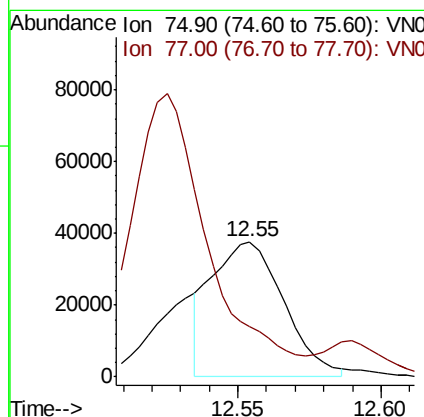
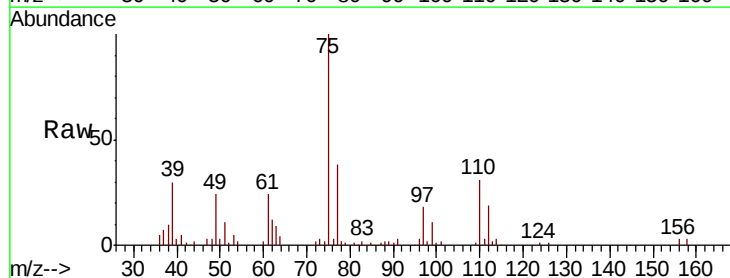
RT: 12.55 min Scan# 3353

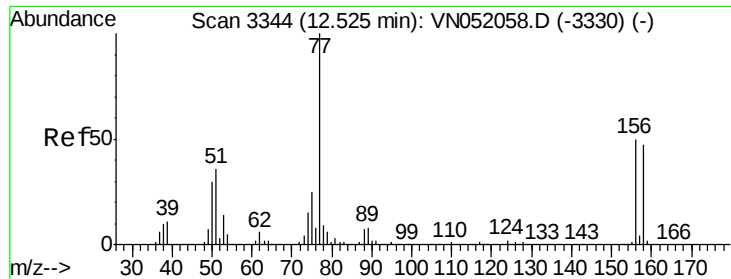
Delta R.T. -0.00 min

Lab File: VN052057.D

Acq: 30 Oct 2018 10:18

Tgt Ion:	75	Resp:	65698
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 22.109 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN052057.D

Acq: 30 Oct 2018 10:18

Instrument :

MSVOA_N

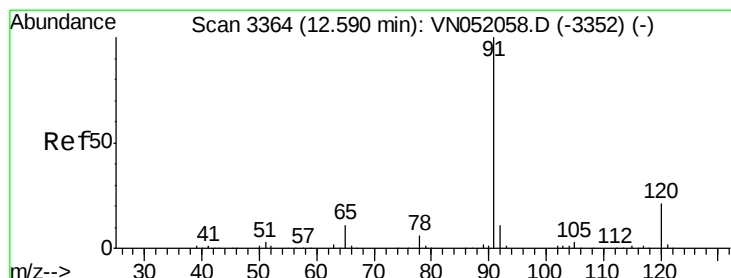
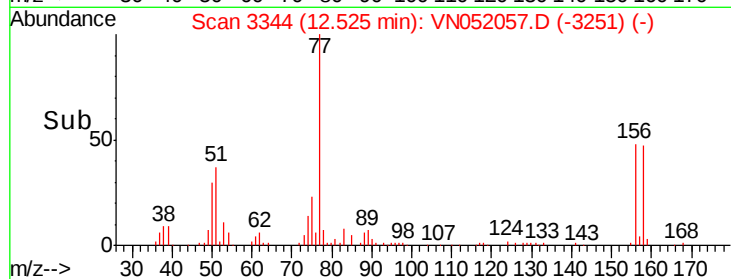
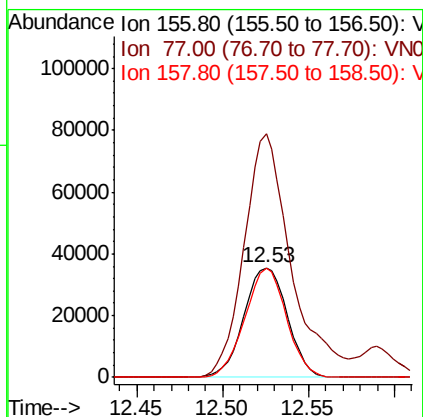
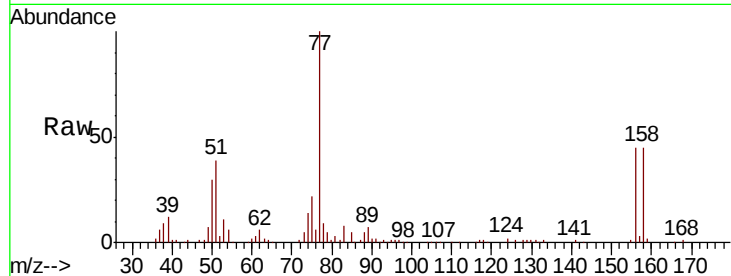
ClientSampleId :

VSTDIC020

Tot Ion	Ion	Ratio	Lower	Upper
156	100			
77	242.3	119.6	358.6	
158	95.3	47.8	143.4	

Manual Integrations
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11/1/2018 11:47:51 AM



#78

n-propylbenzene

Concen: 21.773 ug/l

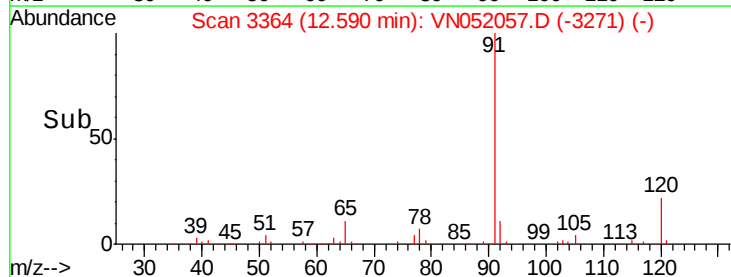
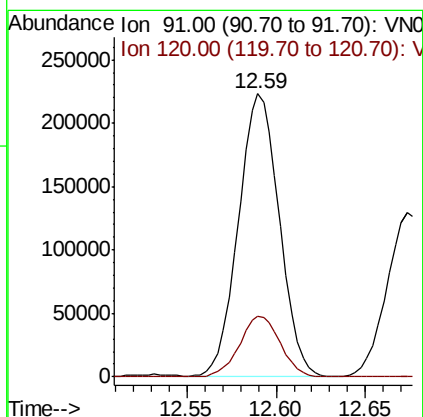
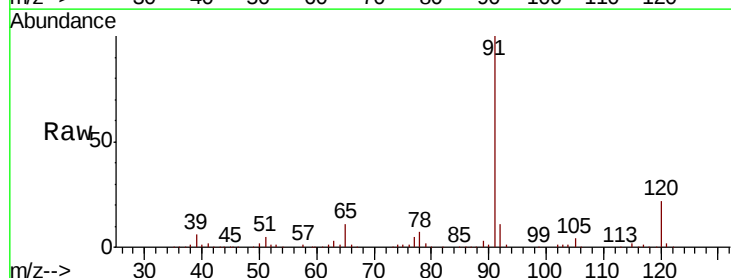
RT: 12.59 min Scan# 3364

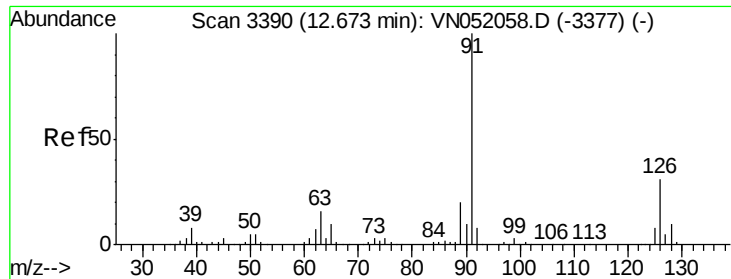
Delta R.T. -0.00 min

Lab File: VN052057.D

Acq: 30 Oct 2018 10:18

Tgt Ion	Ion	Ratio	Lower	Upper
91	100			
120	21.5	10.8	32.4	





#79

2-Chlorotoluene

Concen: 22.968 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN052057.D

Acq: 30 Oct 2018 10:18

Instrument :

MSVOA_N

ClientSampled :

VSTDIC020

Tot Ion: 91 Resp: 210500

Ion Ratio Lower Upper

91 100

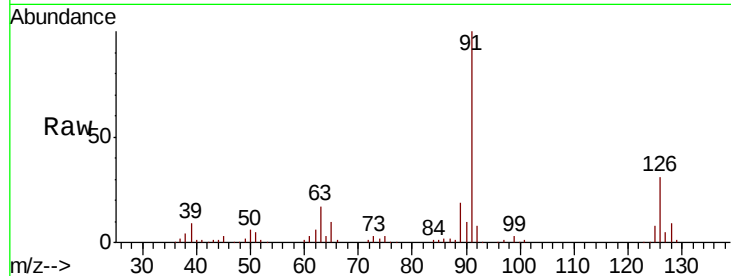
126 31.1 15.9 47.6

Manual Integrations

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Abundance Ion 91.00 (90.70 to 91.70): VN052057.D (-3377) (-)

Ion 125.90 (125.60 to 126.60): VN052057.D (-3377) (-)

150000

100000

50000

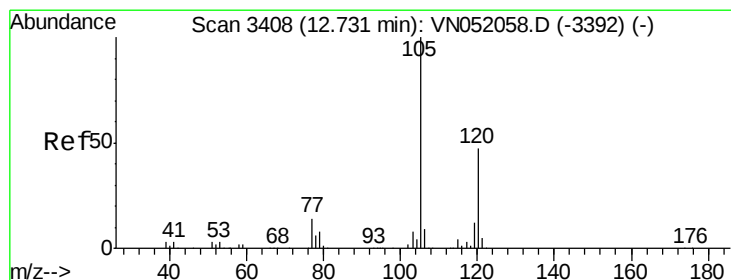
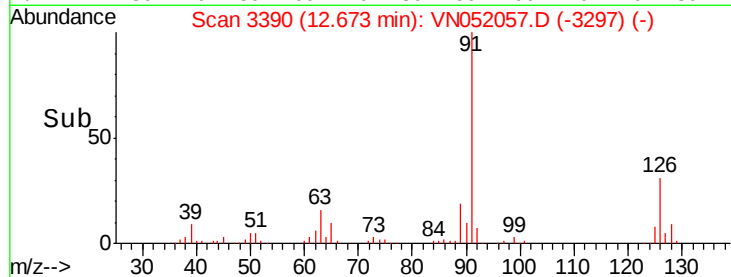
0

12.67

12.65

12.70

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 22.201 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN052057.D

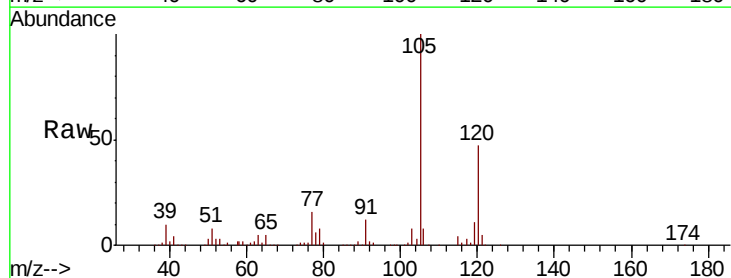
Acq: 30 Oct 2018 10:18

Tgt Ion: 105 Resp: 239541

Ion Ratio Lower Upper

105 100

120 47.4 23.4 70.0



Abundance Ion 105.00 (104.70 to 105.70): VN052057.D (-3392) (-)

Ion 120.00 (119.70 to 120.70): VN052057.D (-3392) (-)

150000

100000

50000

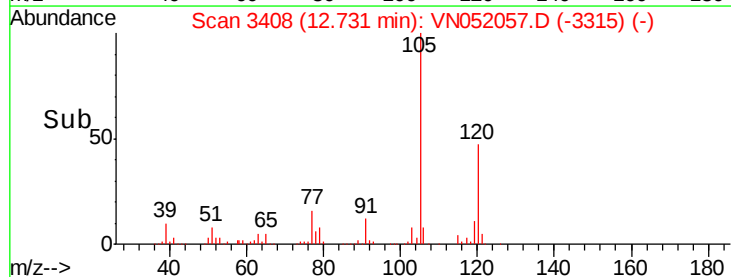
0

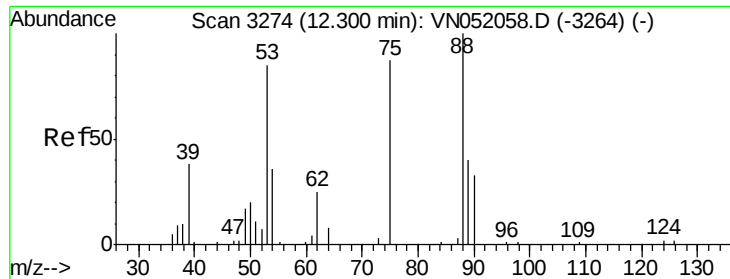
12.73

12.70

12.75

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 20.626 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. -0.00 min

Lab File: VN052057.D

Acq: 30 Oct 2018 10:18

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 75 Resp: 17636

Ion Ratio Lower Upper

75 100

53 113.0 81.8 122.6

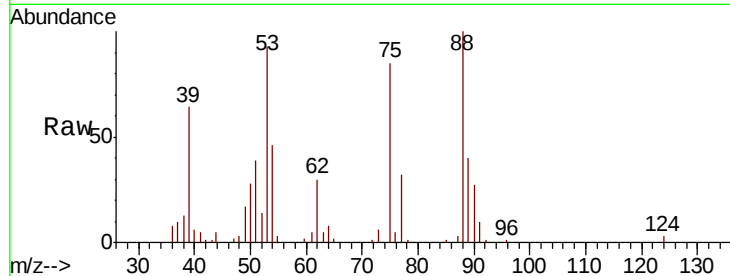
89 47.4 36.6 54.8

Manual Integrations

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Abundance Ion 74.90 (74.60 to 75.60): VN052057.D (-3181) (-)

Ion 53.00 (52.70 to 53.70): VN052057.D (-3181) (-)

Ion 88.90 (88.60 to 89.60): VN052057.D (-3181) (-)

15000

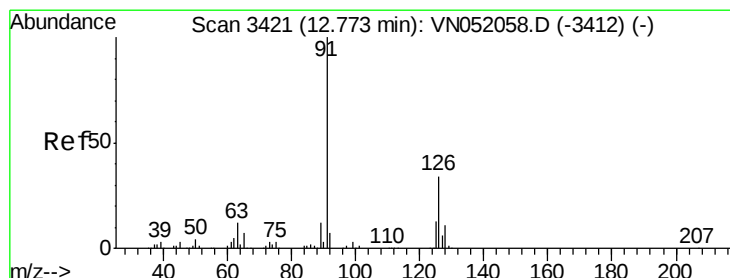
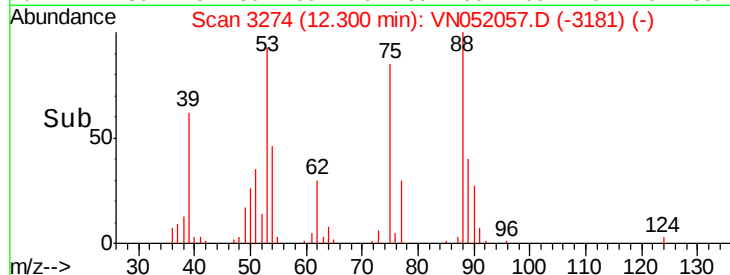
10000

5000

0

12.25 12.30 12.35

Time-->



#82

4-Chlorotoluene

Concen: 23.540 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. -0.00 min

Lab File: VN052057.D

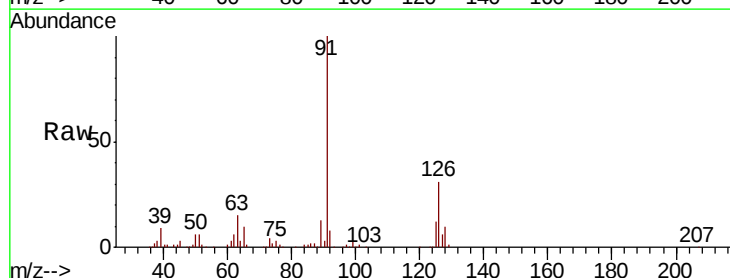
Acq: 30 Oct 2018 10:18

Tgt Ion: 91 Resp: 218315

Ion Ratio Lower Upper

91 100

126 30.0 15.7 47.1



Abundance Ion 91.00 (90.70 to 91.70): VN052057.D (-3328) (-)

Ion 125.90 (125.60 to 126.60): VN052057.D (-3328) (-)

150000

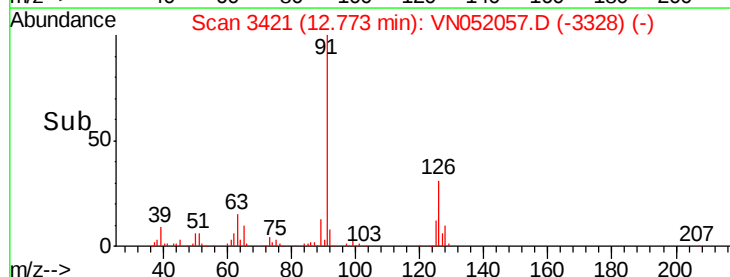
100000

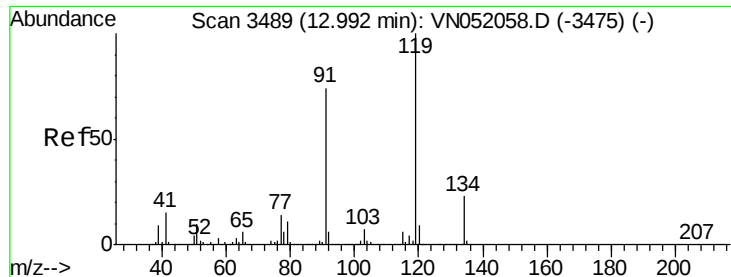
50000

0

12.75 12.80 12.85

Time-->





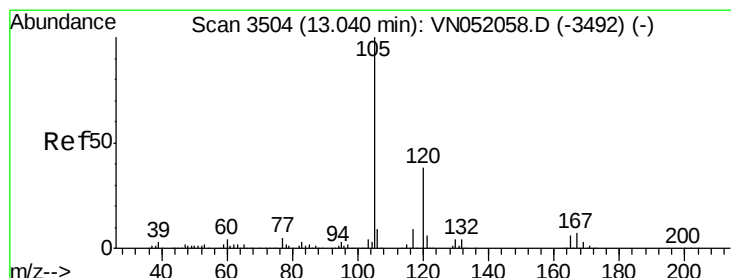
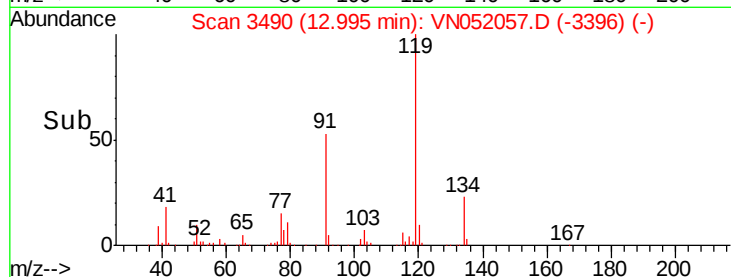
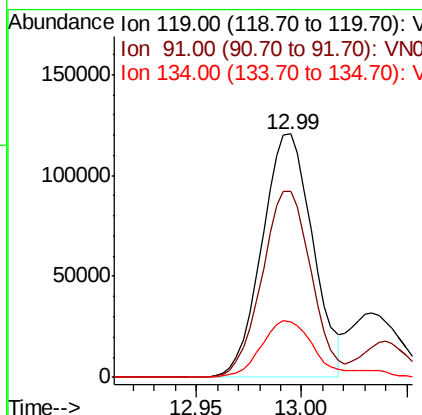
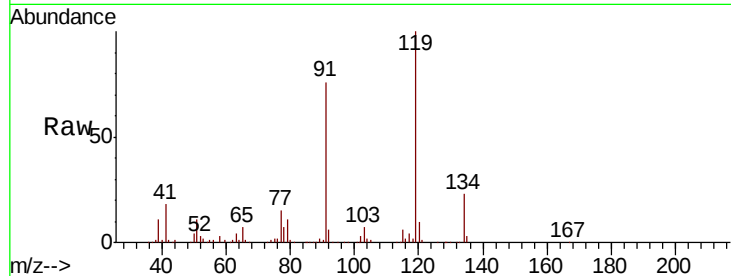
#83
tert-Butylbenzene
Concen: 22.004 ug/l
RT: 12.99 min Scan# 3490
Delta R.T. 0.00 min
Lab File: VN052057.D
Acq: 30 Oct 2018 10:18

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
119	100	202033		
91	74.5	36.6	109.9	
134	23.9	12.5	37.5	

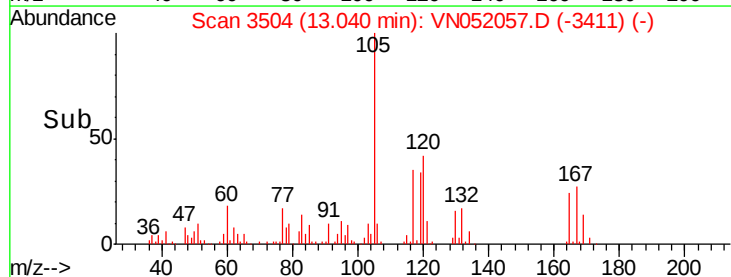
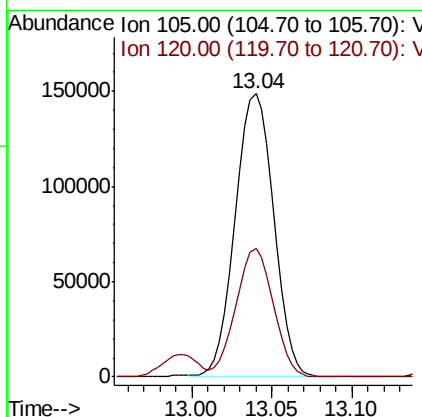
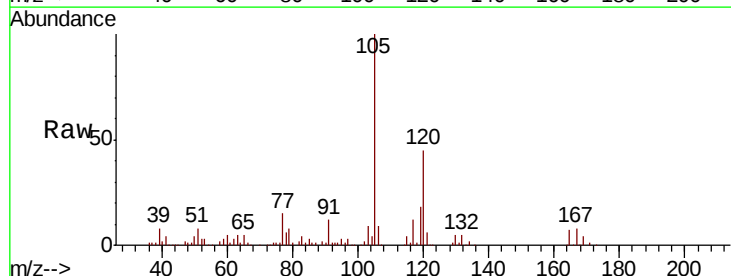
Manual Integrations
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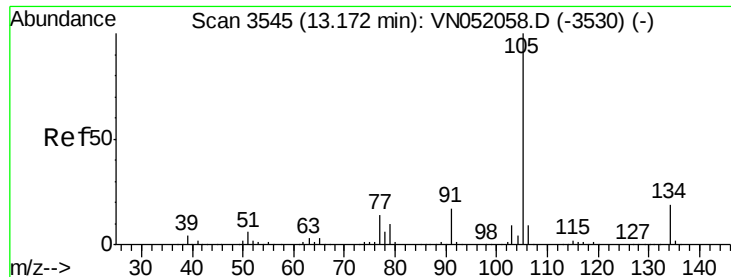
MMDadoda
11/1/2018 11:47:51 AM



#84
1,2,4-Trimethylbenzene
Concen: 23.086 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. -0.00 min
Lab File: VN052057.D
Acq: 30 Oct 2018 10:18

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	243512		
120	44.1	21.9	65.5	





#85

sec-Butylbenzene

Concen: 22.286 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. -0.00 min

Lab File: VN052057.D

Acq: 30 Oct 2018 10:18

Instrument :

MSVOA_N

ClientSampled :

VSTDIC020

Tot Ion:105 Resp: 289439

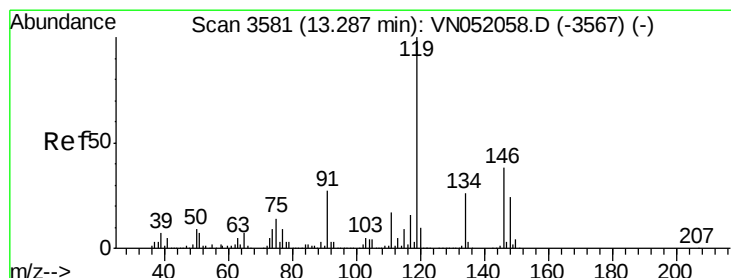
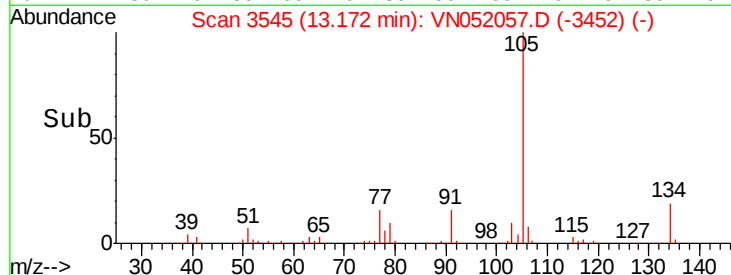
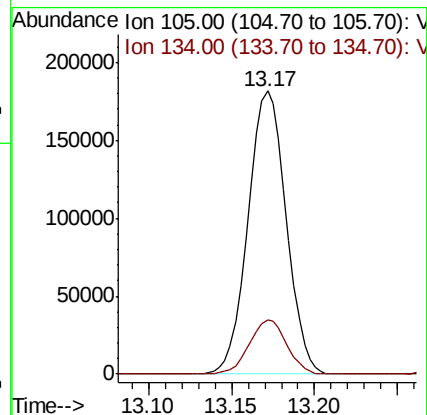
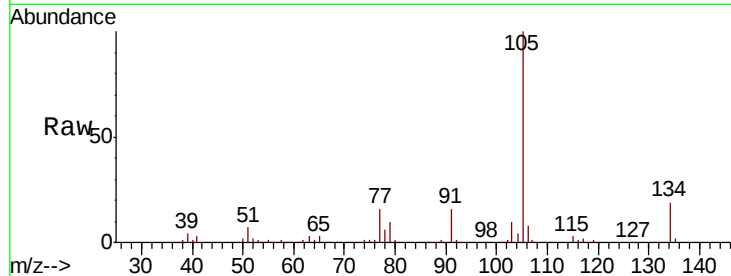
Ion Ratio Lower Upper

105 100

134 18.8 9.1 27.3

Manual Integrations
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#86

p-Isopropyltoluene

Concen: 22.510 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. -0.00 min

Lab File: VN052057.D

Acq: 30 Oct 2018 10:18

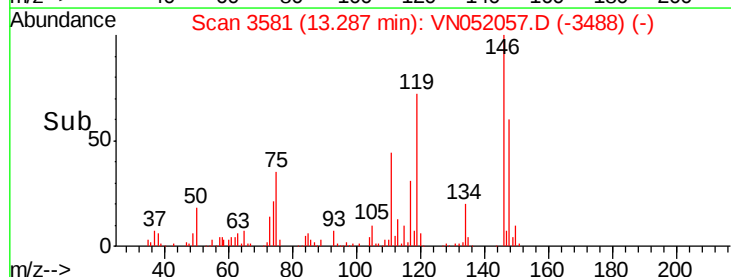
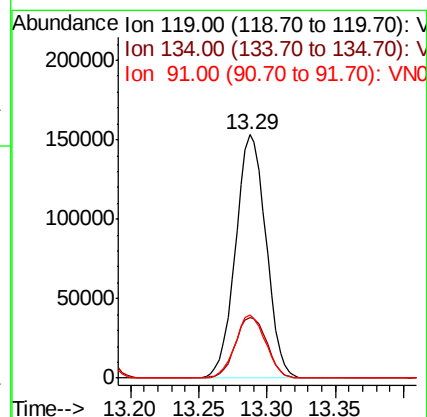
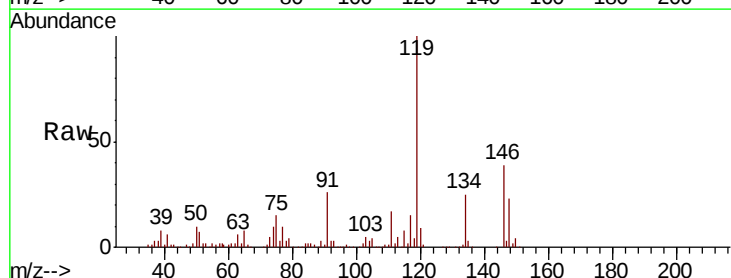
Tgt Ion:119 Resp: 237125

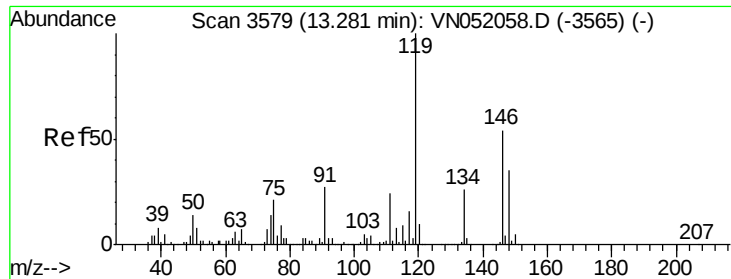
Ion Ratio Lower Upper

119 100

134 26.0 12.8 38.3

91 26.1 13.4 40.2





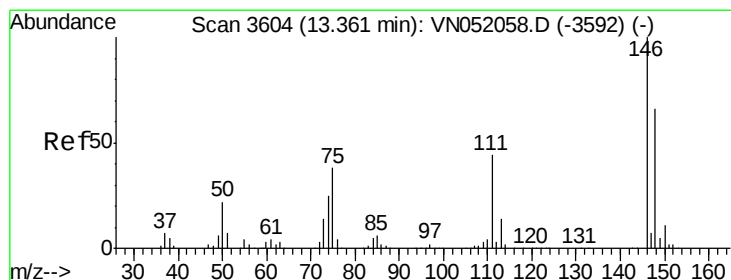
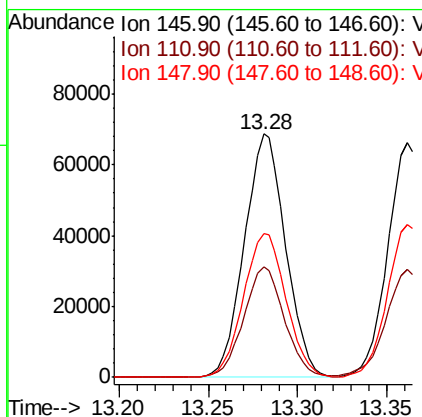
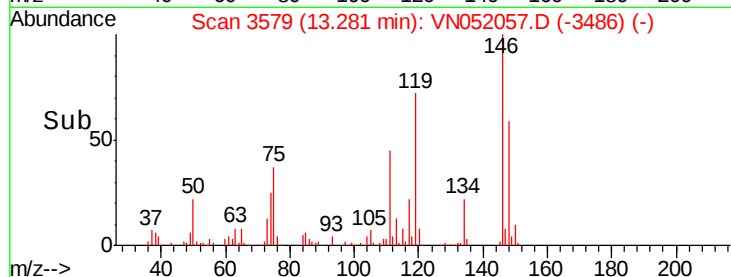
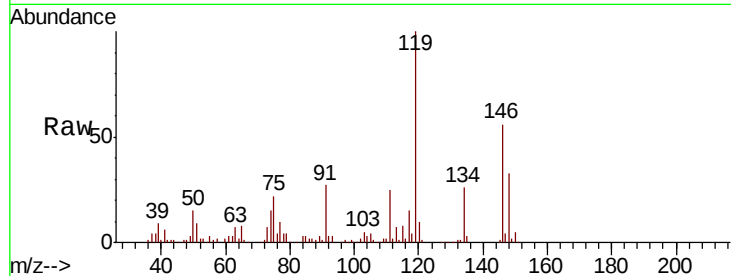
#87
 1,3-Dichlorobenzene
 Concen: 21.587 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. -0.00 min
 Lab File: VN052057.D
 Acq: 30 Oct 2018 10:18

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
146	100		
111	44.8	22.9	68.8
148	61.0	31.8	95.4

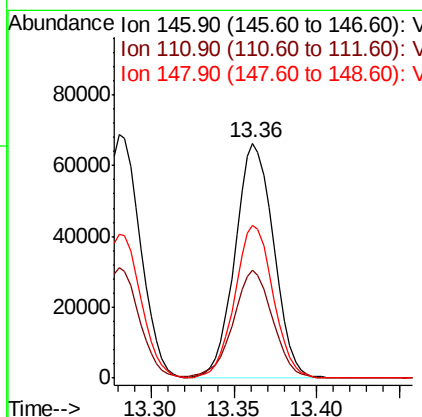
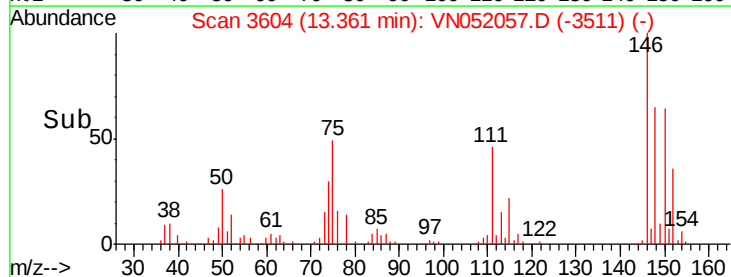
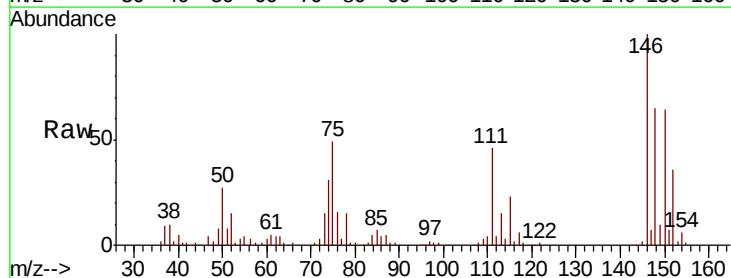
Manual Integrations
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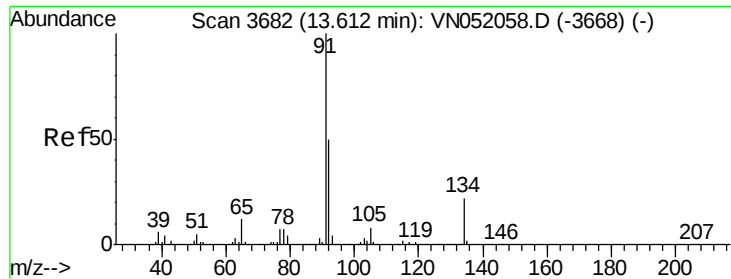
MMDadoda
 11/1/2018 11:47:51 AM



#88
 1,4-Dichlorobenzene
 Concen: 20.469 ug/l
 RT: 13.36 min Scan# 3604
 Delta R.T. -0.00 min
 Lab File: VN052057.D
 Acq: 30 Oct 2018 10:18

Tgt Ion	Ratio	Lower	Upper
146	100		
111	46.9	21.9	65.8
148	64.8	32.6	98.0





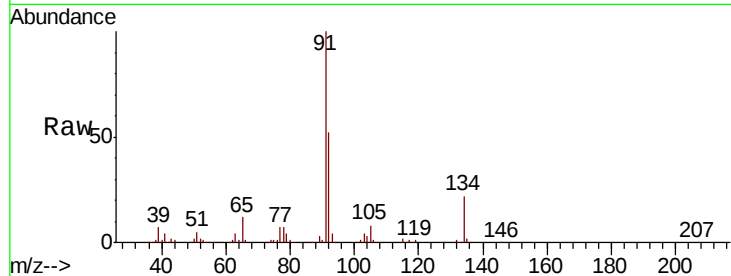
#89
n-Butylbenzene
Concen: 21.441 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. -0.00 min
Lab File: VN052057.D
Acq: 30 Oct 2018 10:18

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.3	25.3	75.8
134	22.5	11.2	33.5

Manual Integrations
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MMDadoda
11/1/2018 11:47:51 AM

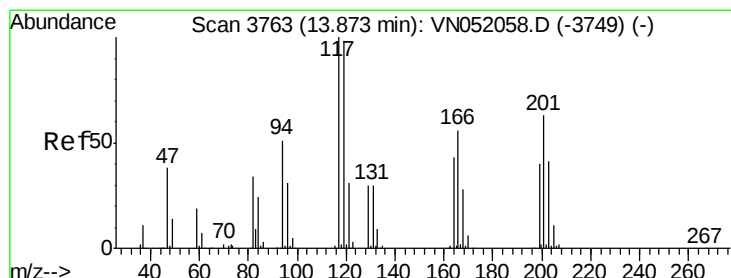
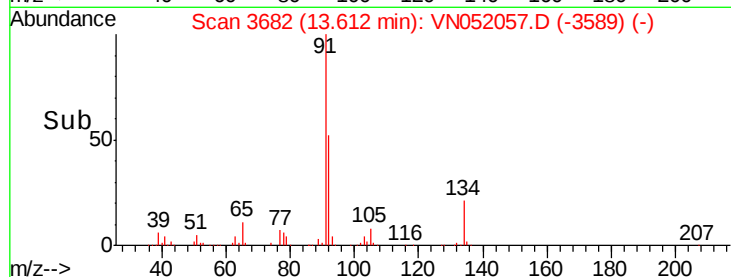
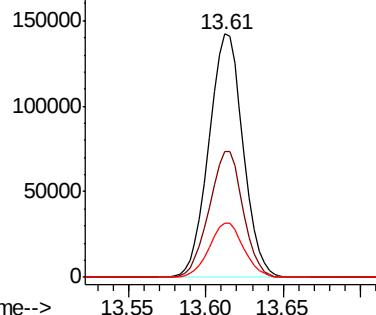


Abundance

Ion 91.00 (90.70 to 91.70): VN052057.D (-3668) (-)

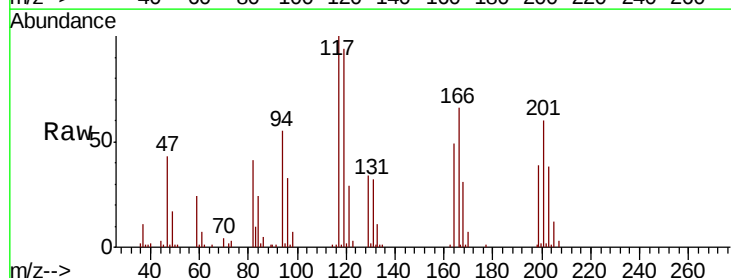
Ion 92.00 (91.70 to 92.70): VN052057.D (-3668) (-)

Ion 134.00 (133.70 to 134.70): VN052057.D (-3668) (-)



#90
Hexachloroethane
Concen: 20.555 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. -0.00 min
Lab File: VN052057.D
Acq: 30 Oct 2018 10:18

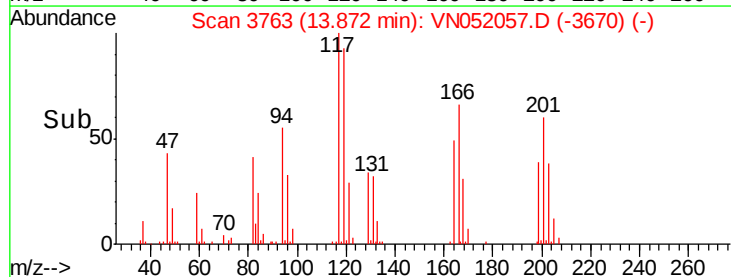
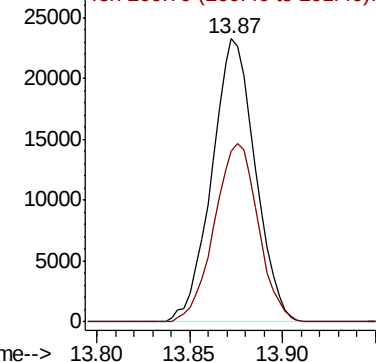
Tgt Ion	Ratio	Lower	Upper
117	100		
201	63.6	31.1	93.5

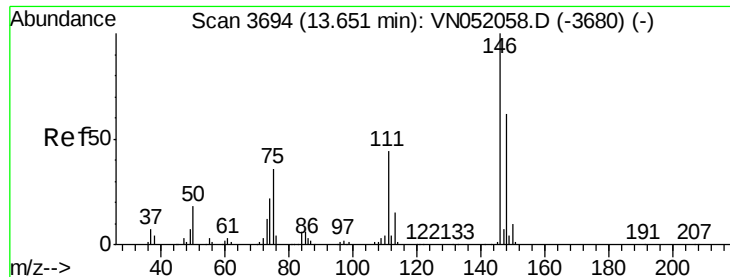


Abundance

Ion 116.80 (116.50 to 117.50): VN052057.D (-3749) (-)

Ion 200.70 (200.40 to 201.40): VN052057.D (-3749) (-)





#91

1,2-Dichlorobenzene

Concen: 22.249 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. 0.00 min

Lab File: VN052057.D

Acq: 30 Oct 2018 10:18

Instrument :

MSVOA_N

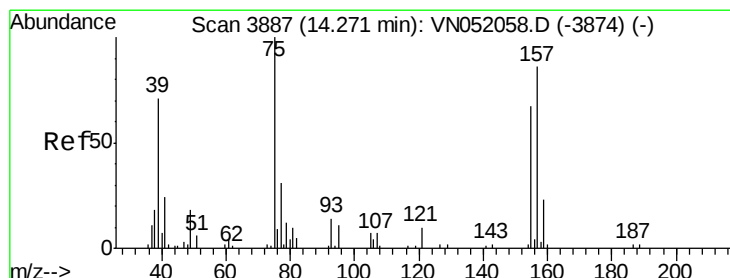
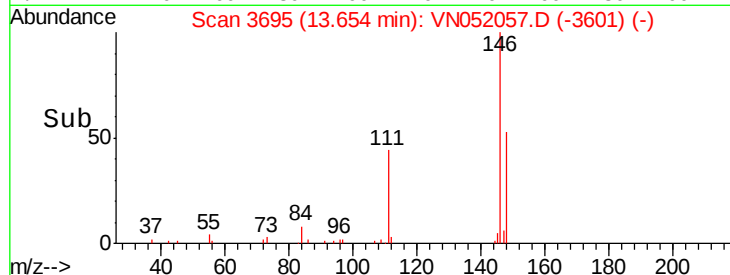
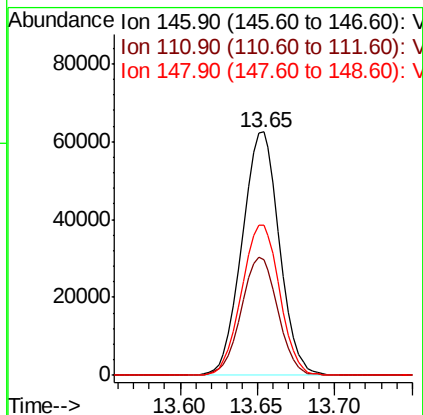
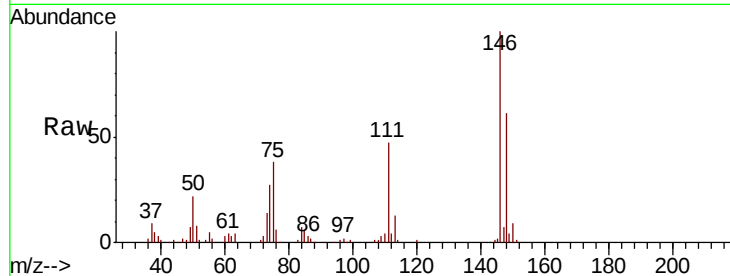
ClientSampled :

VSTDIC020

Tot Ion:	146	Resp:	104948
Ion Ratio	Lower	Upper	
146	100		
111	47.7	22.5	67.5
148	62.9	30.9	92.8

Manual Integrations
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#92

1,2-Dibromo-3-Chloropropane

Concen: 33.463 ug/l

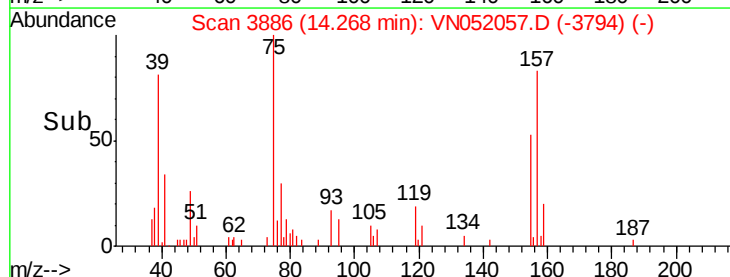
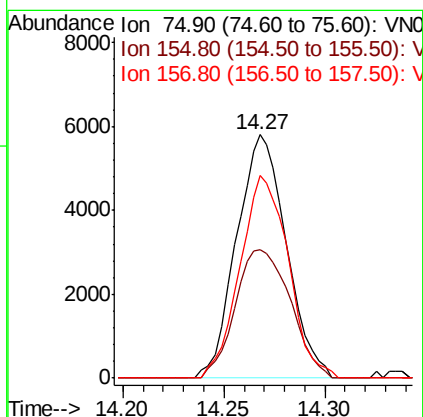
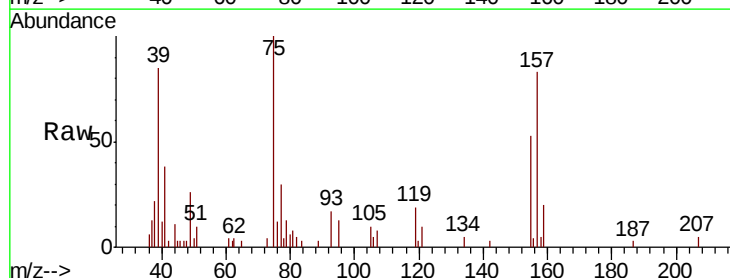
RT: 14.27 min Scan# 3886

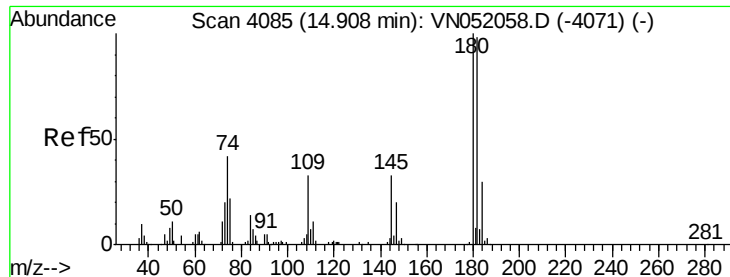
Delta R.T. -0.00 min

Lab File: VN052057.D

Acq: 30 Oct 2018 10:18

Tgt Ion:	75	Resp:	10013
Ion Ratio	Lower	Upper	
75	100		
155	58.5	34.0	102.0
157	80.9	42.1	126.4





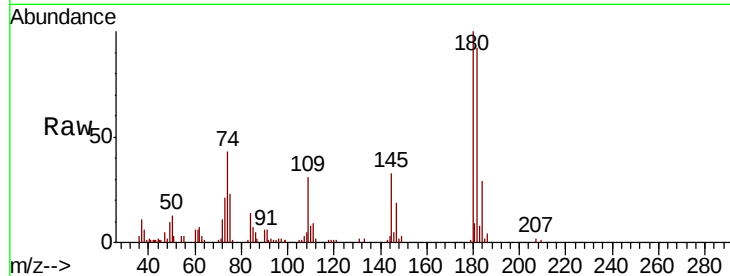
#93
 1,2,4-Trichlorobenzene
 Concen: 22.873 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. -0.00 min
 Lab File: VN052057.D
 Acq: 30 Oct 2018 10:18

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	90.1	49.1	147.4	
145	31.7	16.4	49.2	

Manual Integrations
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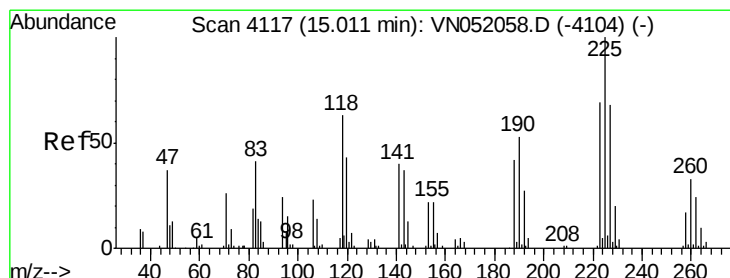
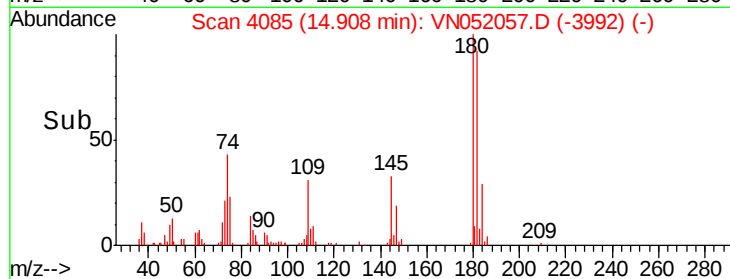
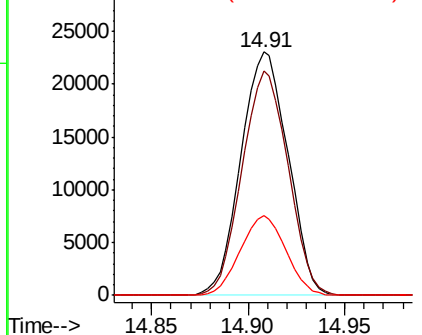


Abundance

Ion 179.80 (179.50 to 180.50): V

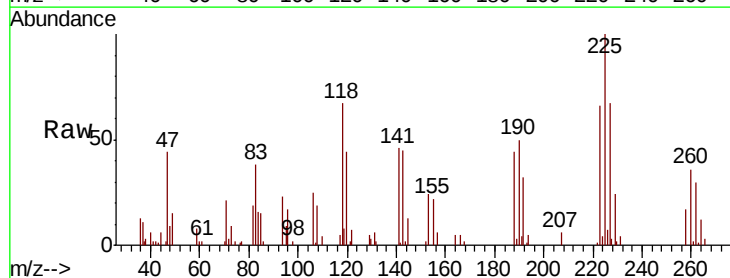
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94
 Hexachlorobutadiene
 Concen: 20.580 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. -0.00 min
 Lab File: VN052057.D
 Acq: 30 Oct 2018 10:18

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	63.5	33.1	99.3	
227	65.0	32.6	97.8	

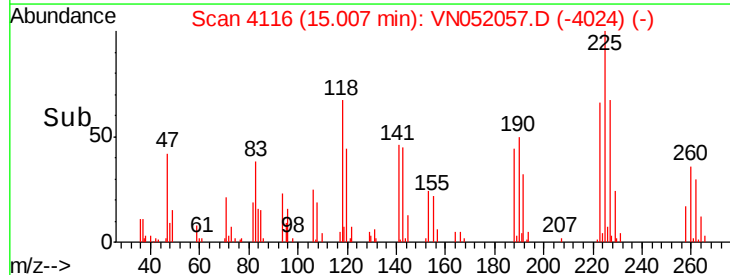
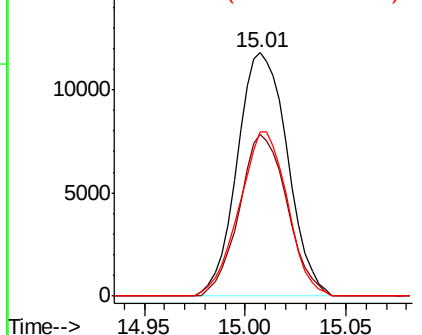


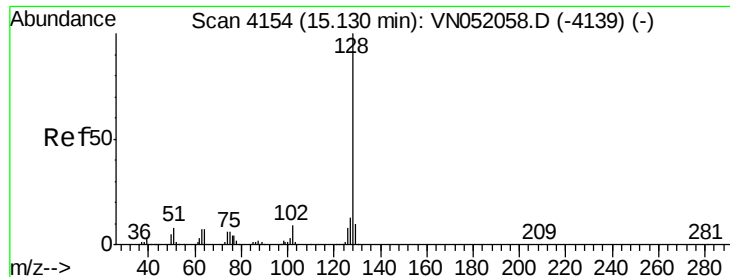
Abundance

Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 20.228 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

Lab File: VN052057.D

Acq: 30 Oct 2018 10:18

Instrument :

MSVOA_N

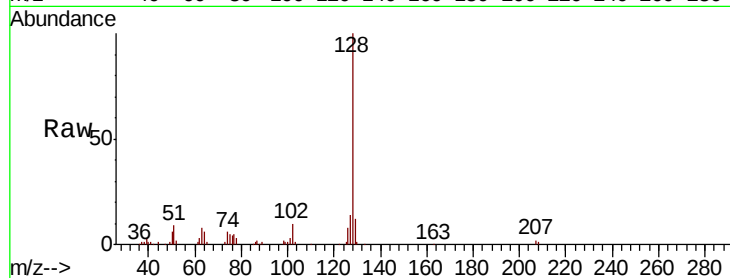
ClientSampleId :

VSTDIC020

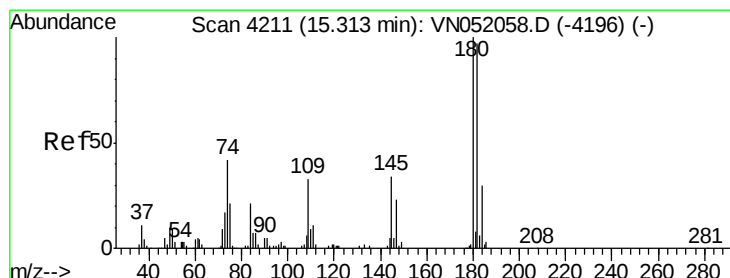
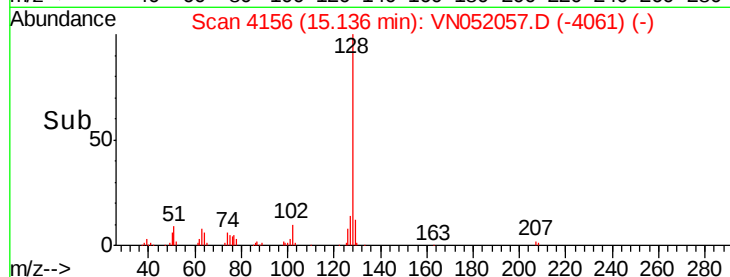
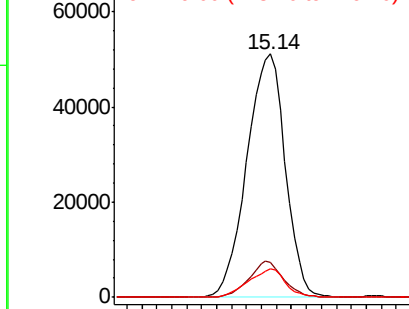
Tot Ion:	128	Resp:	91316
Ion Ratio	Lower	Upper	
128	100		
127	13.1	10.5	15.7
129	11.2	8.6	12.8

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



#96

1,2,3-Trichlorobenzene

Concen: 20.947 ug/l

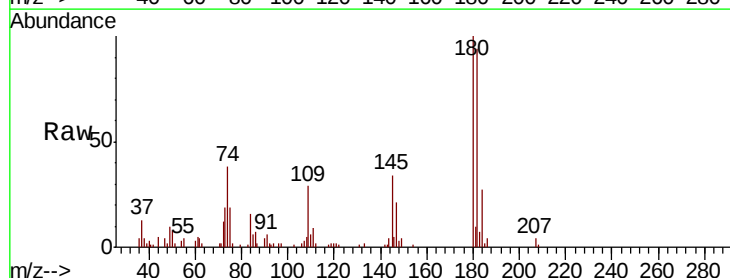
RT: 15.31 min Scan# 4211

Delta R.T. -0.00 min

Lab File: VN052057.D

Acq: 30 Oct 2018 10:18

Tgt Ion:	180	Resp:	32393
Ion Ratio	Lower	Upper	
180	100		
182	94.2	47.2	141.6
145	34.7	16.6	49.7



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

