

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN012219\
 Data File : VN053514.D
 Acq On : 22 Jan 2019 12:56
 Operator : JC/SP
 Sample : VN0122WBS01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0122WBS01

Manual Integrations
 APPROVED

MMDadoda
 1/23/2019 11:00:45 AM

Quant Time: Jan 23 03:41:58 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N011519W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 16 03:10:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	754344	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	1129733	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1018283	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	497026	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.02	65	380882	51.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.16%	
35) Dibromofluoromethane	7.59	113	346146	53.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.38%	
50) Toluene-d8	10.09	98	1377635	50.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.04%	
62) 4-Bromofluorobenzene	12.40	95	469878	49.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.28%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	116156	19.152	ug/l	99
3) Chloromethane	2.06	50	162320	18.719	ug/l	99
4) Vinyl Chloride	2.19	62	162244	19.410	ug/l	99
5) Bromomethane	2.57	94	115587	20.154	ug/l	96
6) Chloroethane	2.71	64	101042	19.994	ug/l	98
7) Trichlorofluoromethane	3.03	101	223905	20.479	ug/l	98
8) Diethyl Ether	3.41	74	85336	20.781	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	3.76	101	142259	20.545	ug/l	99
10) Methyl Iodide	3.96	142	209001	19.752	ug/l	100
11) Tert butyl alcohol	4.78	59	42168	115.581	ug/l #	92
12) 1,1-Dichloroethene	3.74	96	133564	19.887	ug/l	95
13) Acrolein	3.61	56	72299	115.057	ug/l	99
14) Allyl chloride	4.33	41	223339	20.473	ug/l	99
15) Acrylonitrile	4.99	53	249089	103.743	ug/l	100
16) Acetone	3.81	43	181024	103.484	ug/l	99
17) Carbon Disulfide	4.06	76	379890	18.705	ug/l	99
18) Methyl Acetate	4.32	43	119324	20.246	ug/l	98
19) Methyl tert-butyl Ether	5.04	73	375146	21.023	ug/l	99
20) Methylene Chloride	4.55	84	160106	20.047	ug/l	98
21) trans-1,2-Dichloroethene	5.05	96	147763	20.579	ug/l	99
22) Diisopropyl ether	5.95	45	483151	21.215	ug/l	99
23) Vinyl Acetate	5.89	43	1473680	105.269	ug/l	100
24) 1,1-Dichloroethane	5.85	63	282566	20.988	ug/l	99
25) 2-Butanone	6.83	43	274004	101.645	ug/l	100
26) 2,2-Dichloropropane	6.83	77	204025	20.072	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	171466	20.883	ug/l	99
28) Bromochloromethane	7.19	49	116029	19.563	ug/l	98
29) Tetrahydrofuran	7.21	42	181962	103.688	ug/l	99
30) Chloroform	7.37	83	280442	21.380	ug/l	99
31) Cyclohexane	7.66	56	258310	19.579	ug/l	95
32) 1,1,1-Trichloroethane	7.57	97	229202	20.599	ug/l	99
36) 1,1-Dichloropropene	7.79	75	209794	20.391	ug/l	100
37) Ethyl Acetate	6.93	43	121437	20.515	ug/l	99
38) Carbon Tetrachloride	7.78	117	198880	20.418	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	252017	19.818	ug/l	99
40) Benzene	8.04	78	645471	20.645	ug/l	100
41) Methacrylonitrile	7.17	41	68740	19.950	ug/l	95
42) 1,2-Dichloroethane	8.12	62	193646	21.260	ug/l	100
43) Isopropyl Acetate	8.16	43	224638	21.105	ug/l	100
44) Trichloroethene	8.83	130	181571	20.942	ug/l	99
45) 1,2-Dichloropropane	9.12	63	174951	21.126	ug/l	99
46) Dibromomethane	9.21	93	97842	20.564	ug/l	98
47) Bromodichloromethane	9.40	83	209776	20.966	ug/l	100
48) Methyl methacrylate	9.20	41	112362	20.446	ug/l	98
49) 1,4-Dioxane	9.20	88	26975	502.597	ug/l	98
51) 4-Methyl-2-Pentanone	9.98	43	607384	104.535	ug/l	100
52) Toluene	10.16	92	397929	20.501	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	208447	20.553	ug/l	97
54) cis-1,3-Dichloropropene	9.84	75	249313	20.970	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	142898	21.354	ug/l	98
56) Ethyl methacrylate	10.43	69	176835	19.912	ug/l	100
57) 1,3-Dichloropropane	10.71	76	244340	21.107	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.69	63	447012	95.483	ug/l	99
59) 2-Hexanone	10.75	43	411382	100.859	ug/l	99
60) Dibromochloromethane	10.90	129	157491	20.750	ug/l	99
61) 1,2-Dibromoethane	11.00	107	140380	20.742	ug/l	99
64) Tetrachloroethene	10.63	164	199911	20.832	ug/l	99
65) Chlorobenzene	11.43	112	443783	20.590	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	159409	21.260	ug/l	99
67) Ethyl Benzene	11.51	91	754915	20.552	ug/l	100
68) m/p-Xylenes	11.62	106	584449	42.142	ug/l	99
69) o-Xylene	11.95	106	281587	20.895	ug/l	99
70) Styrene	11.96	104	460343	21.048	ug/l	100
71) Bromoform	12.13	173	107408	20.807	ug/l #	100
73) Isopropylbenzene	12.25	105	750106	20.609	ug/l	100
74) N-amyl acetate	12.07	43	194506	20.046	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	152311	19.953	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	144291m	22.030	ug/l	
77) Bromobenzene	12.53	156	196153	20.452	ug/l	99
78) n-propylbenzene	12.59	91	859713	20.577	ug/l	100
79) 2-Chlorotoluene	12.67	91	504079	20.355	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	624493	21.088	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	47129	19.821	ug/l	96
82) 4-Chlorotoluene	12.77	91	516702	20.460	ug/l	100
83) tert-Butylbenzene	12.99	119	548706	20.978	ug/l	100
84) 1,2,4-Trimethylbenzene	13.04	105	629689	21.088	ug/l	100
85) sec-Butylbenzene	13.17	105	749808	20.903	ug/l	100
86) p-Isopropyltoluene	13.29	119	653542	20.983	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	344517	20.421	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	342182	20.220	ug/l	99
89) n-Butylbenzene	13.62	91	538948	20.300	ug/l	98
90) Hexachloroethane	13.88	117	101856	20.851	ug/l	97
91) 1,2-Dichlorobenzene	13.65	146	334768	21.569	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	22127	22.861	ug/l	98

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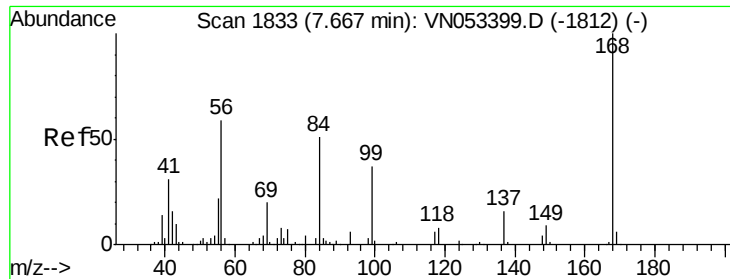
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	146338	22.953	ug/l	99
94) Hexachlorobutadiene	15.01	225	111272	22.982	ug/l	99
95) Naphthalene	15.13	128	236776	22.093	ug/l	99
96) 1,2,3-Trichlorobenzene	15.32	180	107935	23.762	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN053514.D

Acq: 22 Jan 2019 12:56

Instrument :

MSVOA_N

ClientSampleId :

VN0122WBS01

Tot Ion:168 Resp: 754344

Ion Ratio Lower Upper

168 100

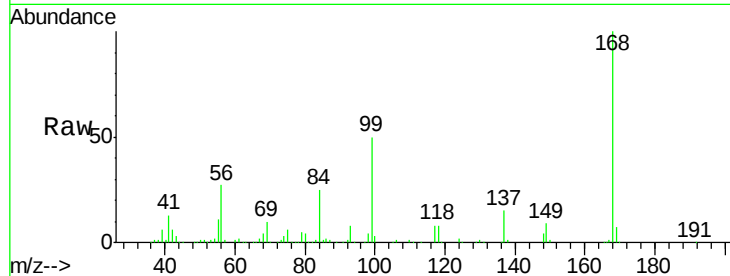
99 49.8 39.1 58.7

Manual Integrations

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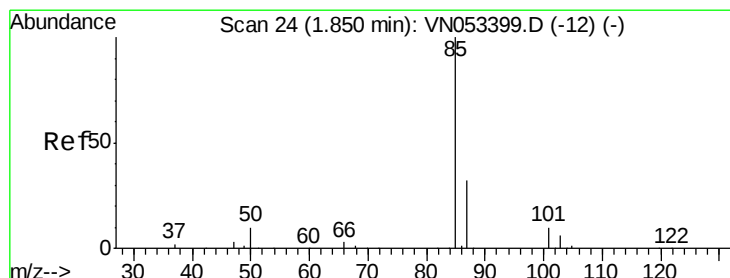
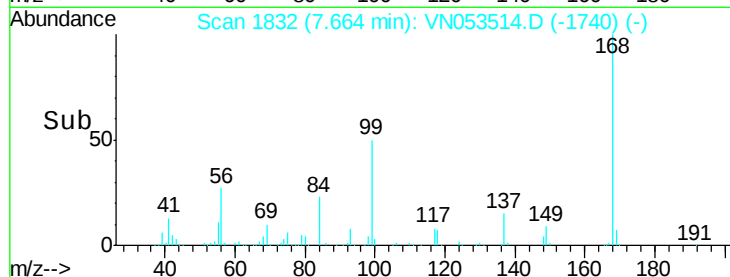
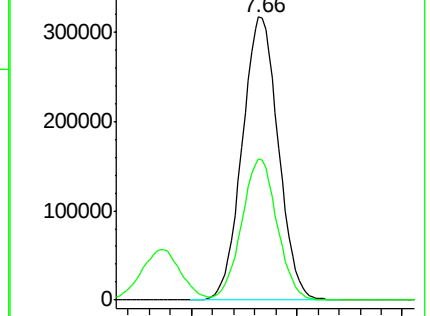
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1/23/2019 11:00:45 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#2

Dichlorodifluoromethane

Concen: 19.152 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN053514.D

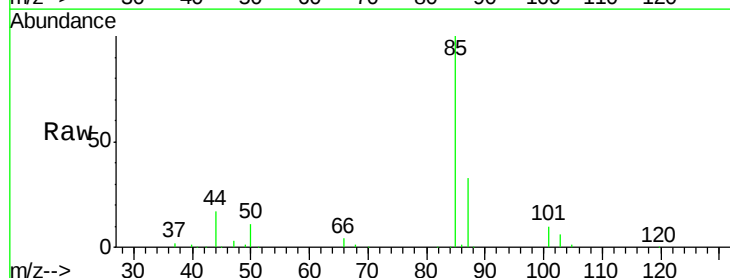
Acq: 22 Jan 2019 12:56

Tgt Ion: 85 Resp: 116156

Ion Ratio Lower Upper

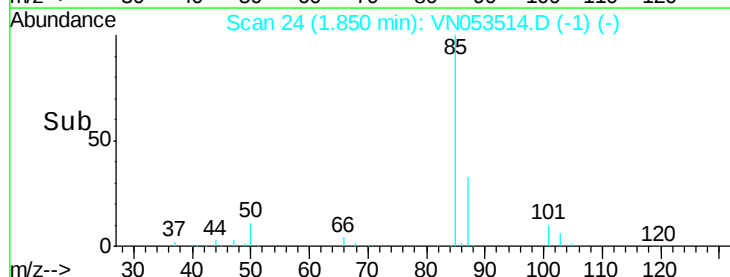
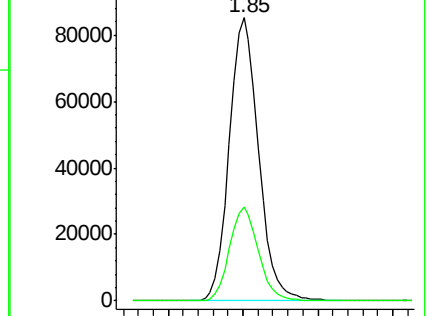
85 100

87 33.0 16.2 48.5



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO





#3

Chloromethane

Concen: 18.719 ug/l

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN053514.D

Acq: 22 Jan 2019 12:56

Instrument :

MSVOA_N

ClientSampleId :

VN0122WBS01

Tot Ion: 50 Resp: 162320

Ion Ratio Lower Upper

50 100

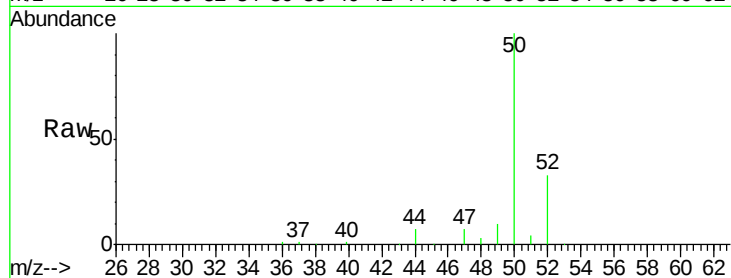
52 32.9 26.6 40.0

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Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.06

120000

100000

80000

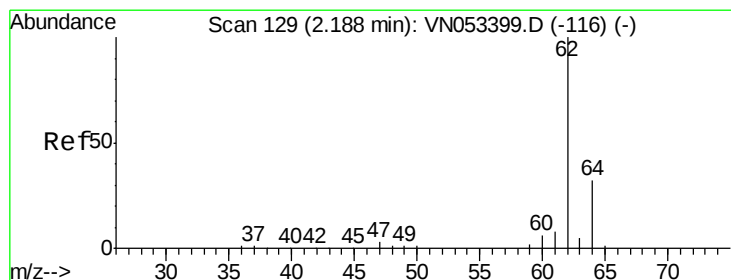
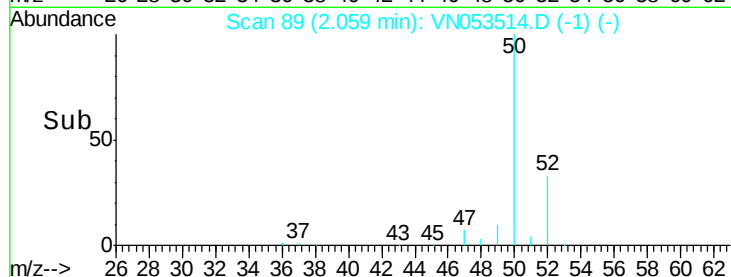
60000

40000

20000

0

Time-->



#4

Vinyl Chloride

Concen: 19.410 ug/l

RT: 2.19 min Scan# 130

Delta R.T. 0.00 min

Lab File: VN053514.D

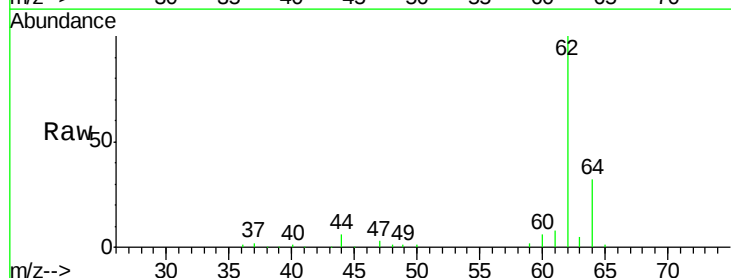
Acq: 22 Jan 2019 12:56

Tgt Ion: 62 Resp: 162244

Ion Ratio Lower Upper

62 100

64 32.5 25.4 38.2



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO

2.19

120000

100000

80000

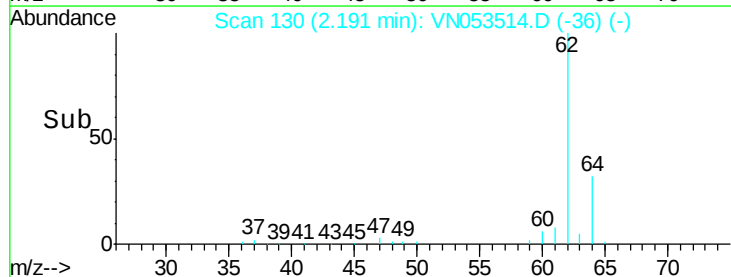
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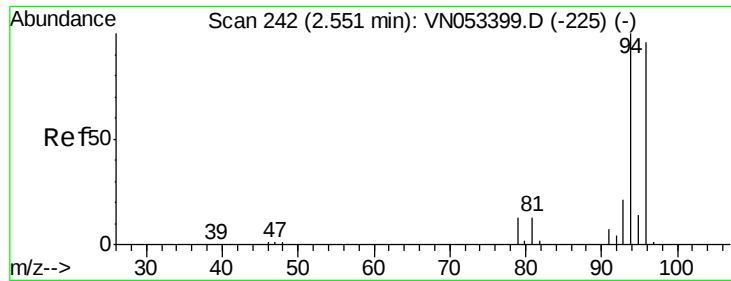
40000

20000

0

Time-->





#5

Bromomethane

Concen: 20.154 ug/l

RT: 2.57 min Scan# 249

Delta R.T. 0.02 min

Lab File: VN053514.D

Acq: 22 Jan 2019 12:56

Instrument :

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VN0122WBS01

Tot Ion: 94 Resp: 115587

Ion Ratio Lower Upper

94 100

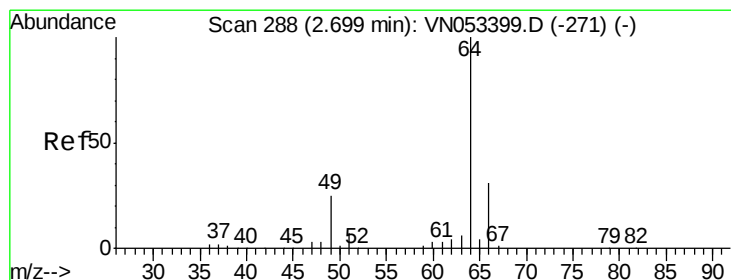
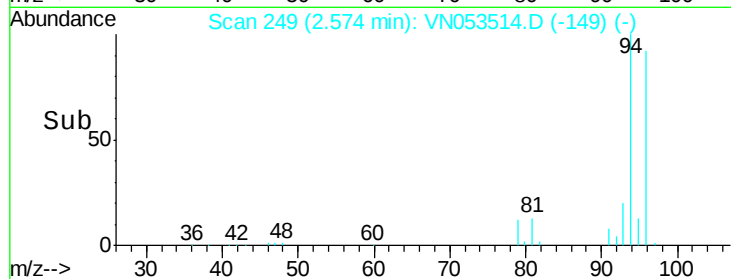
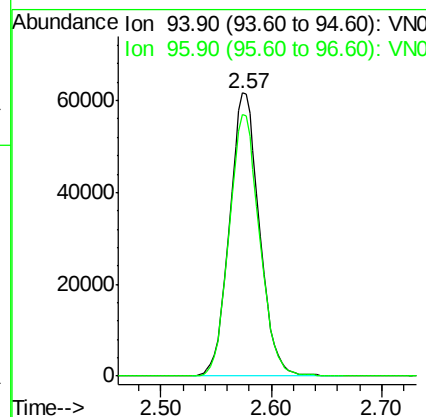
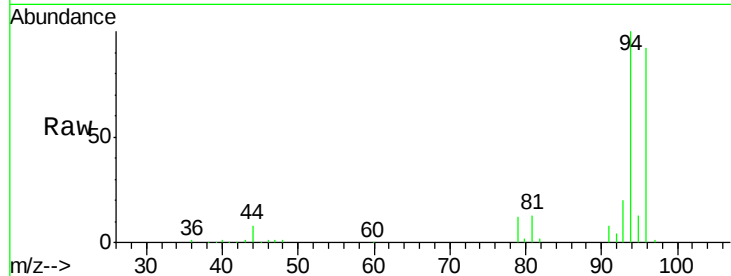
96 92.2 76.8 115.2

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#6

Chloroethane

Concen: 19.994 ug/l

RT: 2.71 min Scan# 292

Delta R.T. 0.01 min

Lab File: VN053514.D

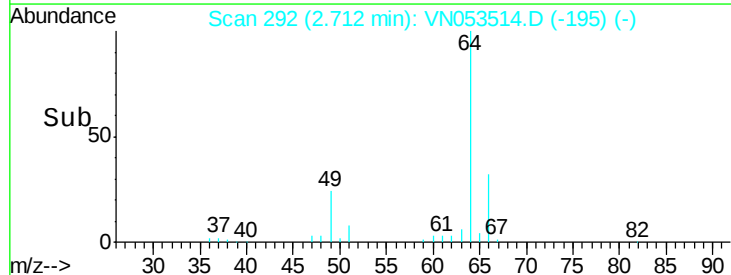
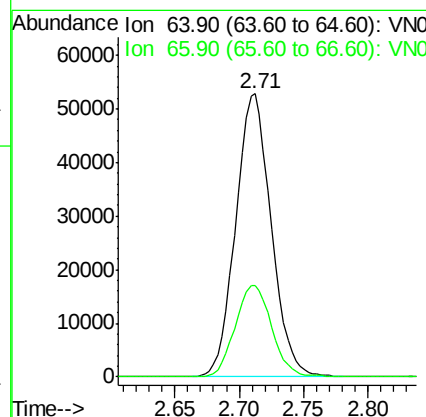
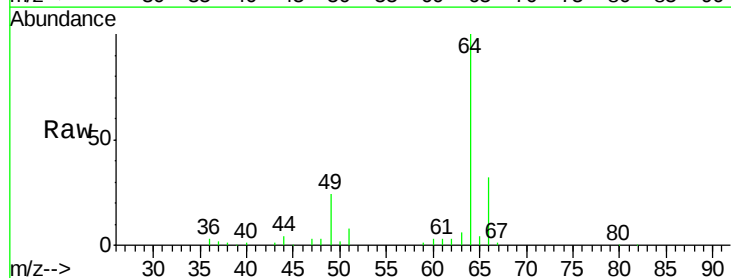
Acq: 22 Jan 2019 12:56

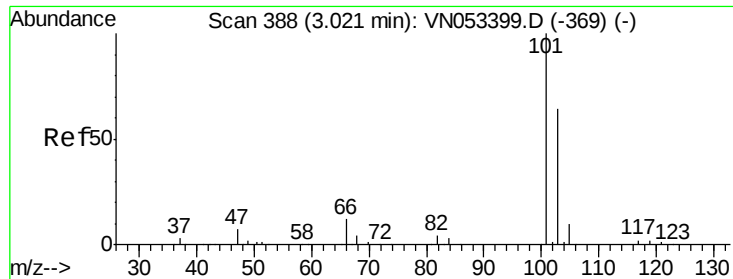
Tgt Ion: 64 Resp: 101042

Ion Ratio Lower Upper

64 100

66 32.3 25.1 37.7





#7

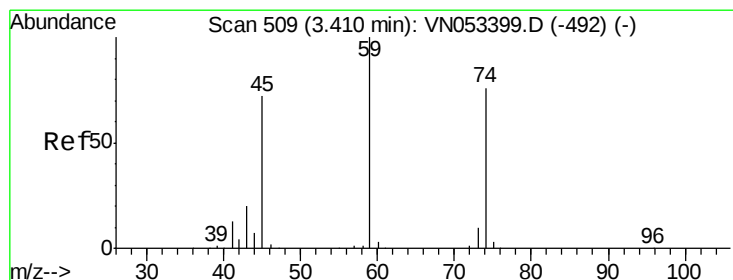
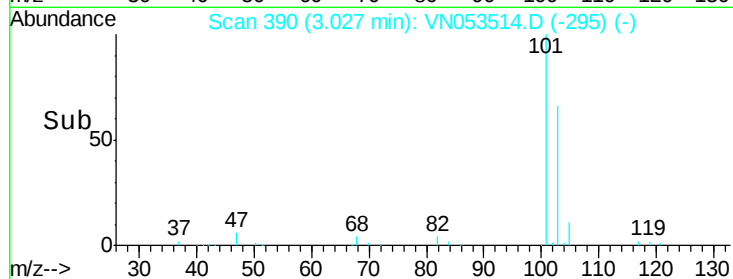
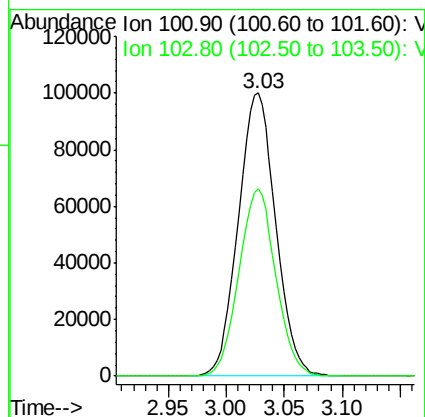
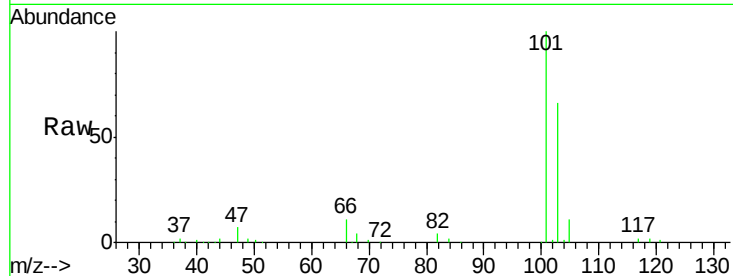
Trichlorofluoromethane
Concen: 20.479 ug/l
RT: 3.03 min Scan# 390
Delta R.T. 0.01 min
Lab File: VN053514.D
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ClientSampleId :
VN0122WBS01

Tot Ion:101 Resp: 223905
Ion Ratio Lower Upper
101 100
103 66.0 51.6 77.4

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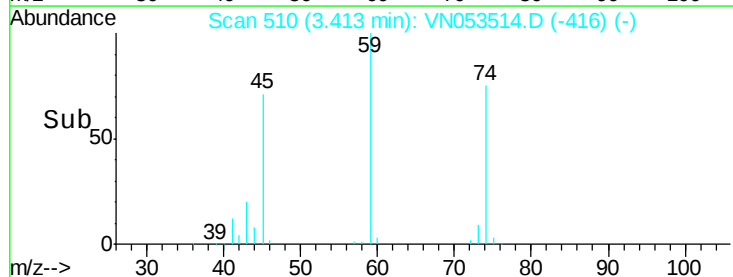
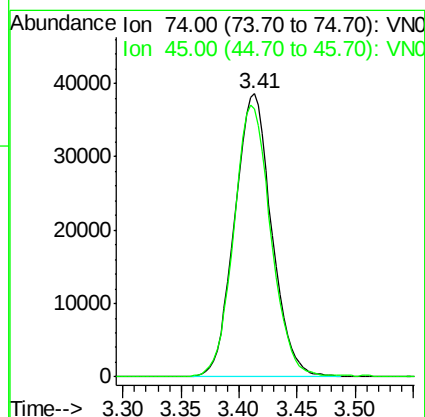
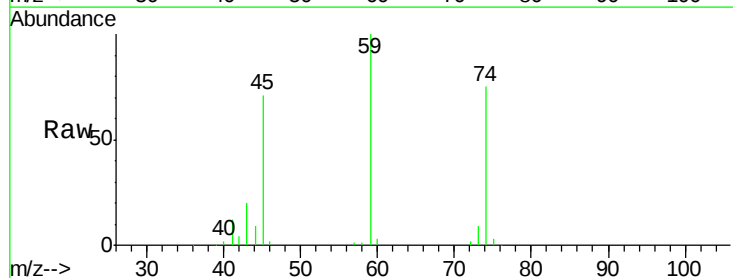
MMDadoda
1/23/2019 11:00:45 AM

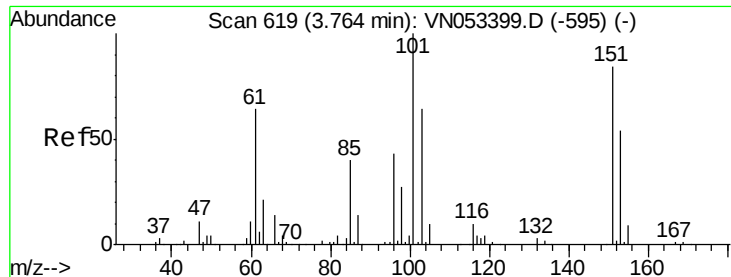


#8

Diethyl Ether
Concen: 20.781 ug/l
RT: 3.41 min Scan# 510
Delta R.T. 0.00 min
Lab File: VN053514.D
Acq: 22 Jan 2019 12:56

Tgt Ion: 74 Resp: 85336
Ion Ratio Lower Upper
74 100
45 96.1 47.9 143.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.545 ug/l

RT: 3.76 min Scan# 619

Delta R.T. 0.00 min

Lab File: VN053514.D

Acq: 22 Jan 2019 12:56

Instrument :

MSVOA_N

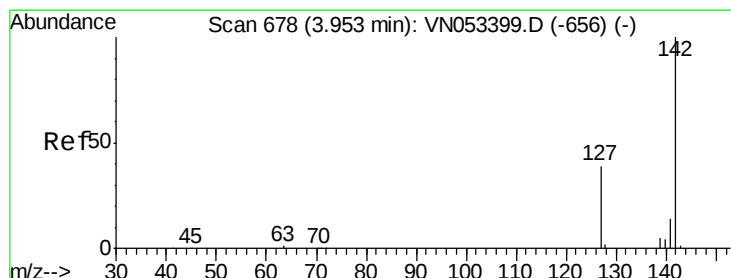
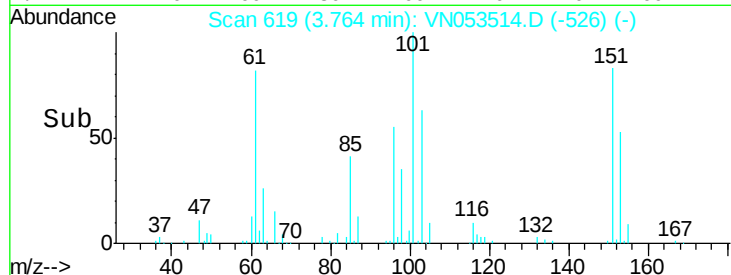
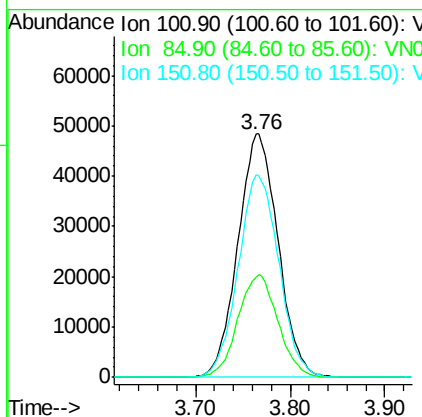
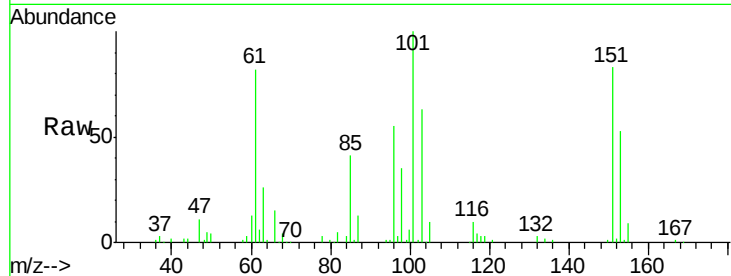
ClientSampleId :

VN0122WBS01

Tot Ion:	101	Resp:	142259
Ion Ratio	Lower	Upper	
101	100		
85	42.0	32.8	49.2
151	84.6	66.9	100.3

Manual Integrations
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#10

Methyl Iodide

Concen: 19.752 ug/l

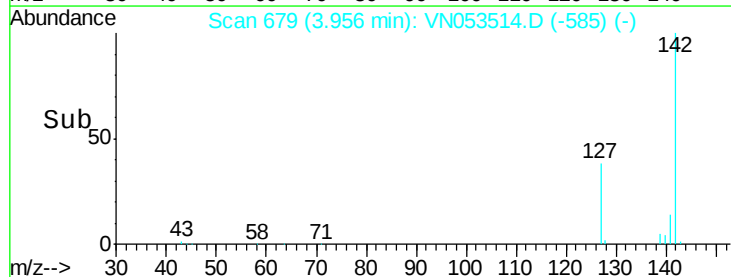
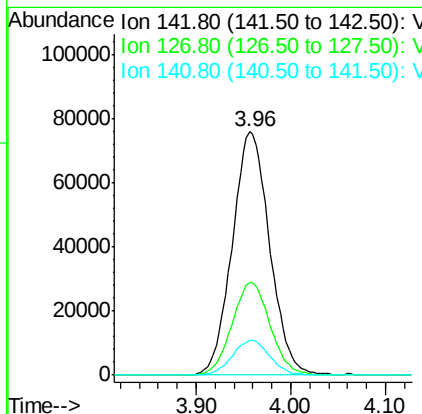
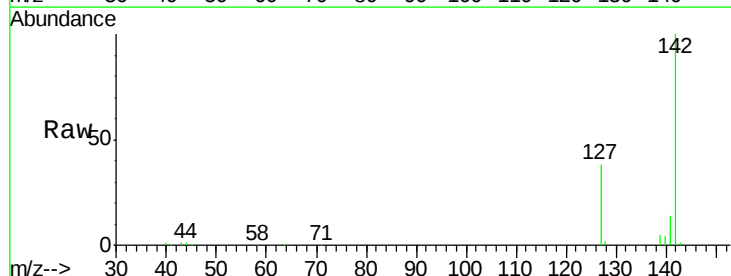
RT: 3.96 min Scan# 679

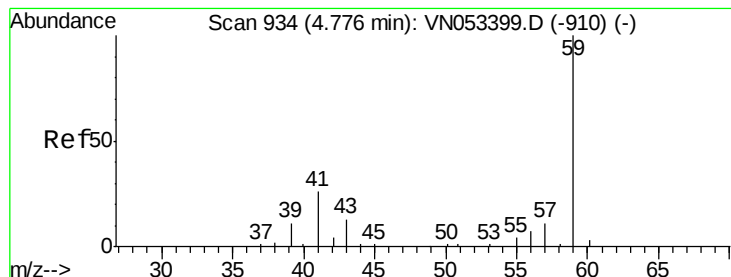
Delta R.T. 0.00 min

Lab File: VN053514.D

Acq: 22 Jan 2019 12:56

Tgt Ion:	142	Resp:	209001
Ion Ratio	Lower	Upper	
142	100		
127	38.7	31.0	46.4
141	14.4	11.1	16.7





#11

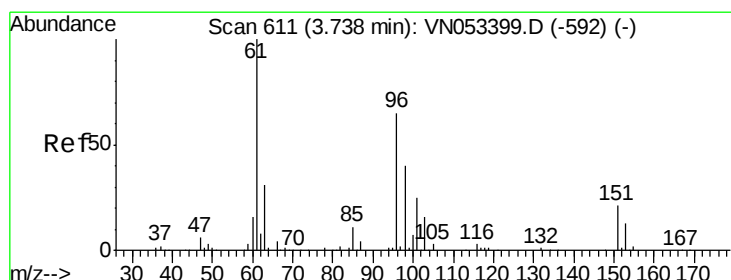
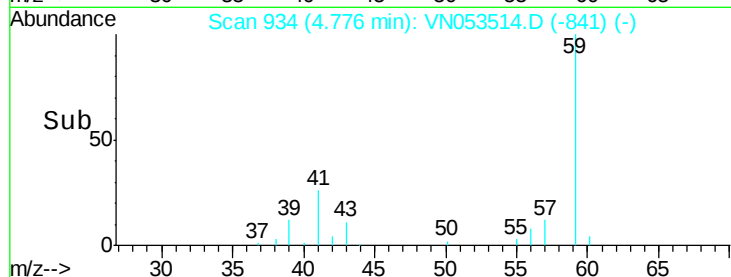
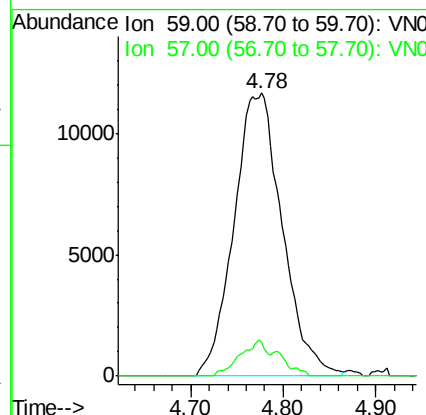
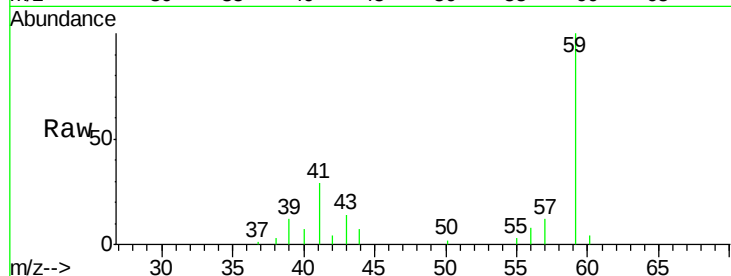
Tert butyl alcohol
Concen: 115.581 ug/l
RT: 4.78 min Scan# 934
Delta R.T. 0.00 min
Lab File: VN053514.D
Acq: 22 Jan 2019 12:56

Instrument :
MSVOA_N
ClientSampleId :
VN0122WBS01

Tot Ion	Ratio	Lower	Upper
59	100		
57	7.1	8.2	12.4#

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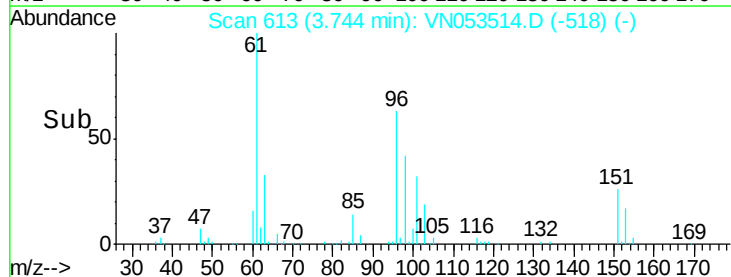
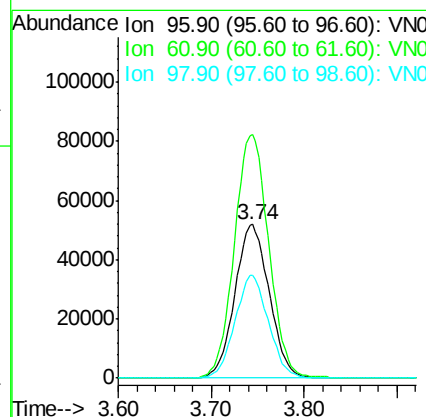
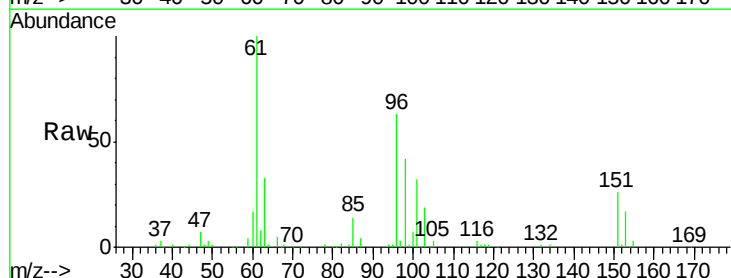
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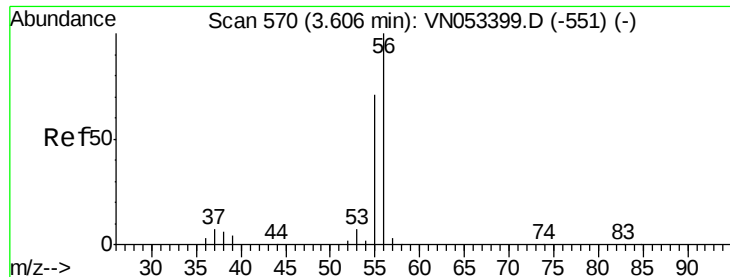


#12

1,1-Dichloroethene
Concen: 19.887 ug/l
RT: 3.74 min Scan# 613
Delta R.T. 0.01 min
Lab File: VN053514.D
Acq: 22 Jan 2019 12:56

Tgt Ion	Ratio	Lower	Upper
96	100		
61	158.7	122.9	184.3
98	67.0	49.4	74.0





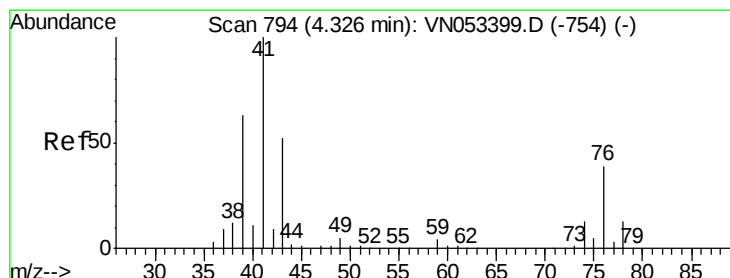
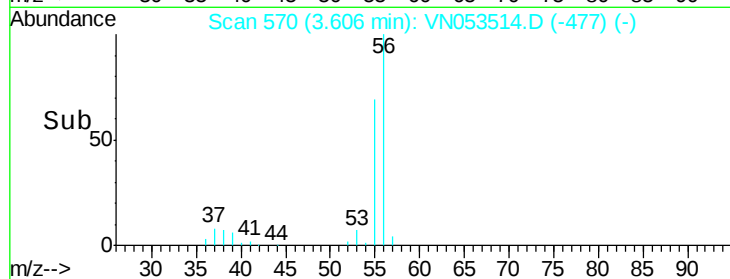
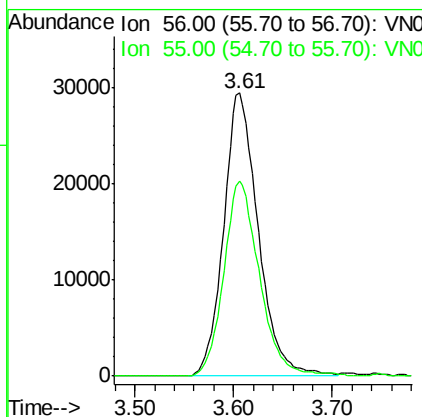
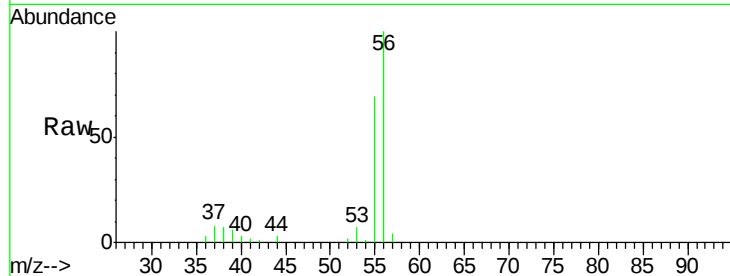
#13
Acrolein
Concen: 115.057 ug/l
RT: 3.61 min Scan# 570
Delta R.T. 0.00 min
Lab File: VN053514.D
Acq: 22 Jan 2019 12:56

Instrument :
MSVOA_N
ClientSampleId :
VN0122WBS01

Tot Ion	Ion	Ratio	Lower	Upper
56	100			
55	70.5	57.4	86.0	

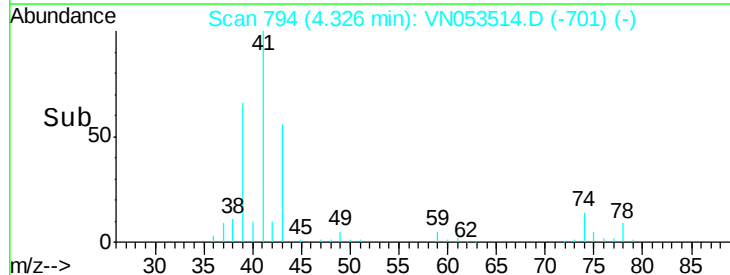
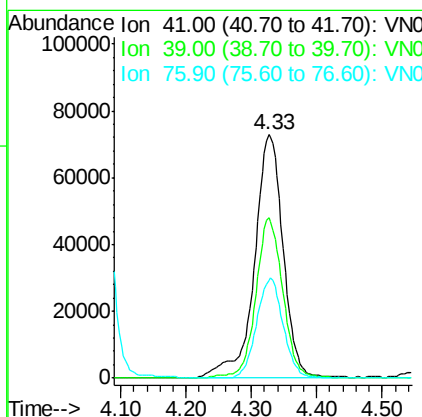
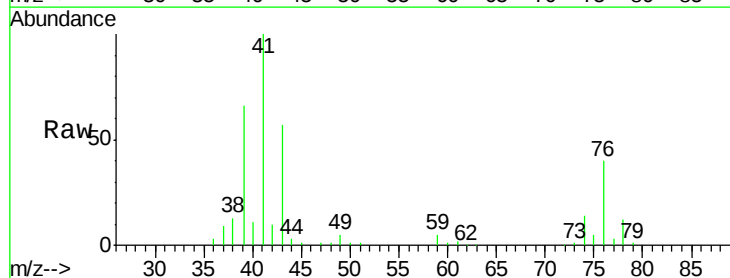
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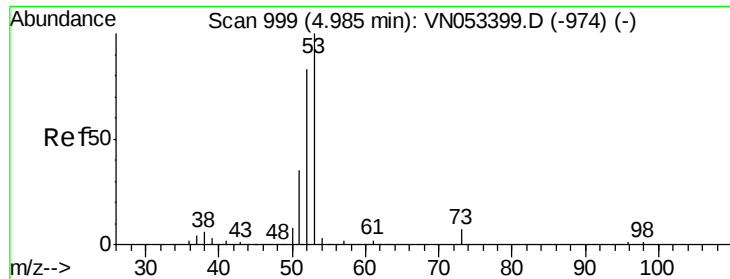
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#14
Allyl chloride
Concen: 20.473 ug/l
RT: 4.33 min Scan# 794
Delta R.T. 0.00 min
Lab File: VN053514.D
Acq: 22 Jan 2019 12:56

Tgt Ion	Ion	Ratio	Lower	Upper
41	100			
39	61.9	48.9	73.3	
76	37.9	29.4	44.2	





#15

Acrylonitrile

Concen: 103.743 ug/l

RT: 4.99 min Scan# 999

Delta R.T. 0.00 min

Lab File: VN053514.D

Acq: 22 Jan 2019 12:56

Instrument :

MSVOA_N

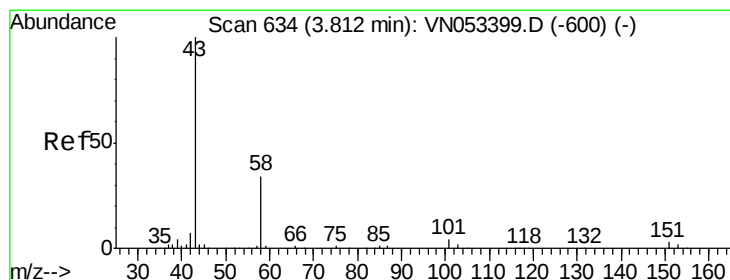
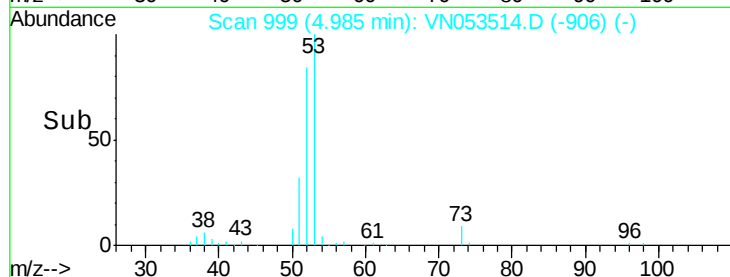
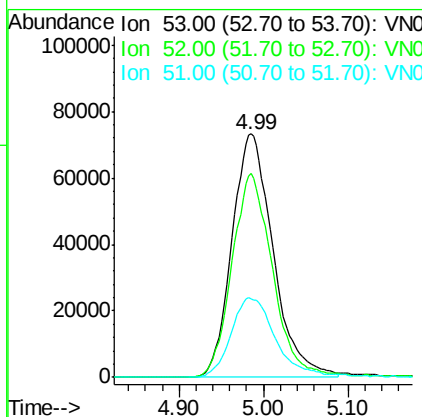
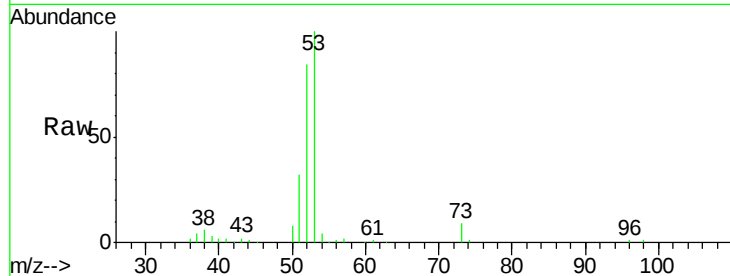
ClientSampleId :

VN0122WBS01

Tot Ion:	53	Resp:	249089
Ion Ratio	Lower	Upper	
53	100		
52	82.5	66.0	99.0
51	35.2	28.3	42.5

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#16

Acetone

Concen: 103.484 ug/l

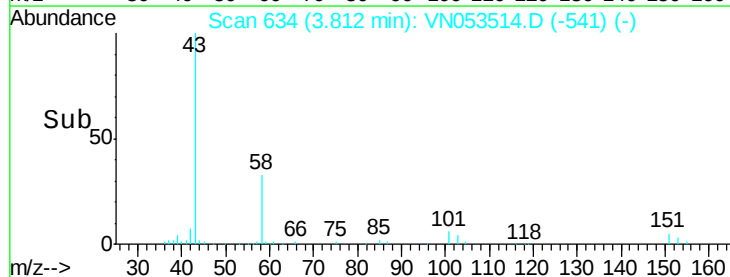
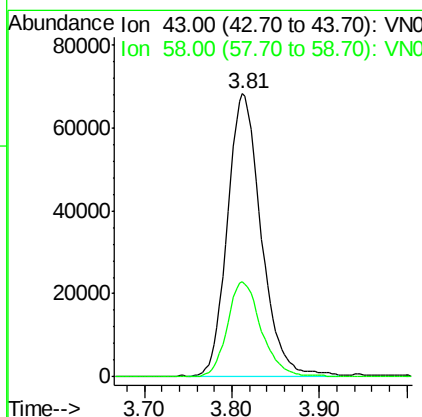
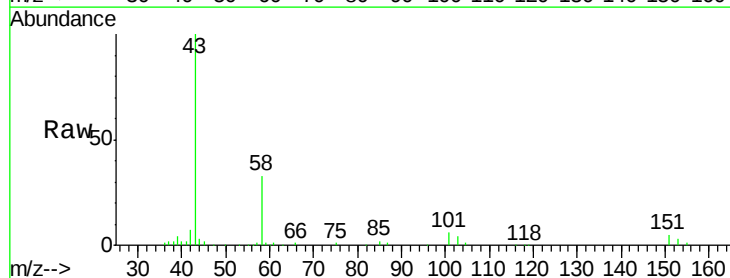
RT: 3.81 min Scan# 634

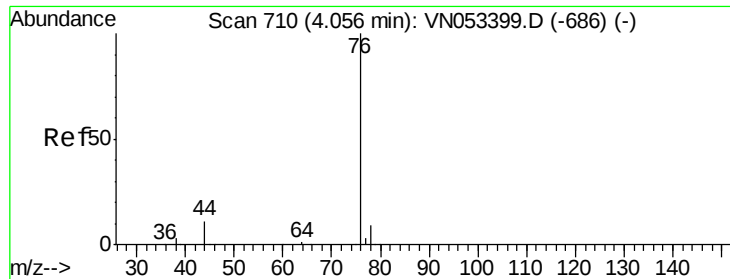
Delta R.T. 0.00 min

Lab File: VN053514.D

Acq: 22 Jan 2019 12:56

Tgt Ion:	43	Resp:	181024
Ion Ratio	Lower	Upper	
43	100		
58	33.6	27.1	40.7





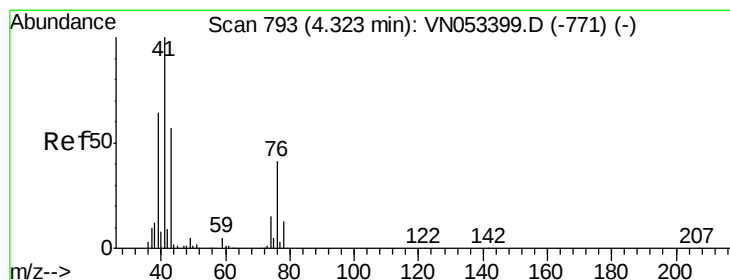
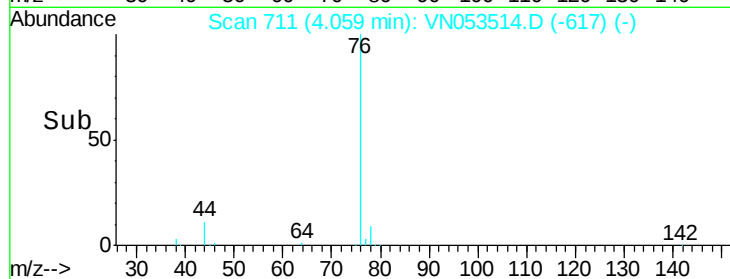
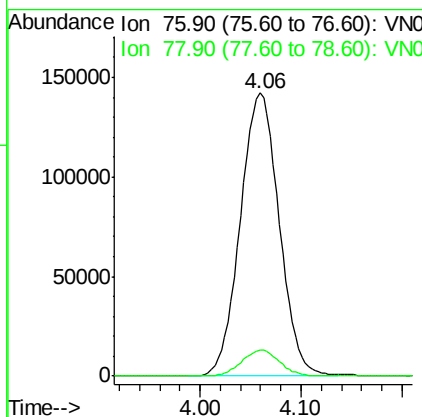
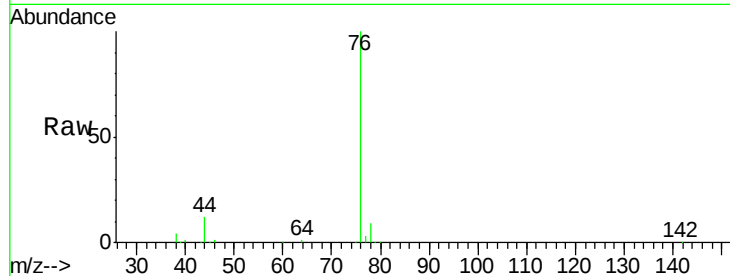
#17
Carbon Disulfide
Concen: 18.705 ug/l
RT: 4.06 min Scan# 711
Delta R.T. 0.00 min
Lab File: VN053514.D
Acq: 22 Jan 2019 12:56

Instrument :
MSVOA_N
ClientSampleId :
VN0122WBS01

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.3	7.3	10.9

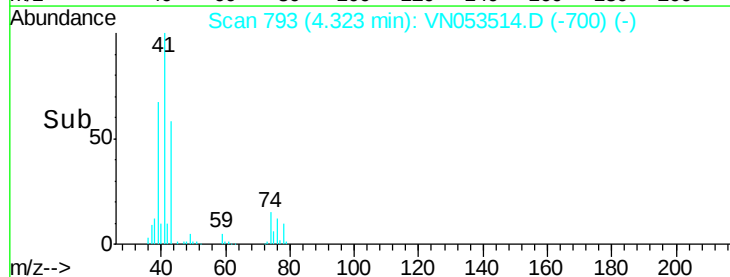
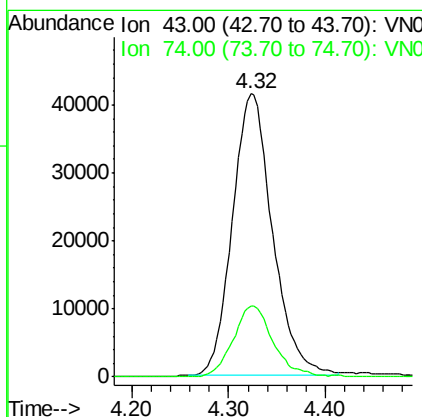
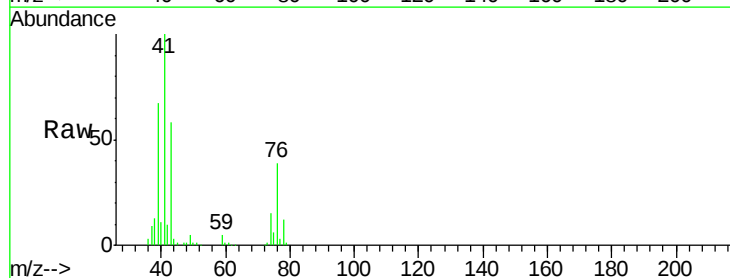
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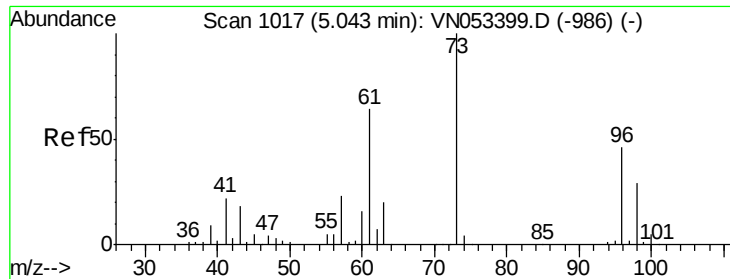
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#18
Methyl Acetate
Concen: 20.246 ug/l
RT: 4.32 min Scan# 793
Delta R.T. 0.00 min
Lab File: VN053514.D
Acq: 22 Jan 2019 12:56

Tgt Ion	Ratio	Lower	Upper
43	100		
74	25.2	19.4	29.2





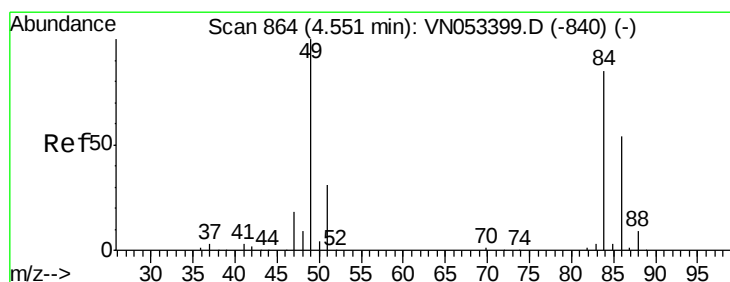
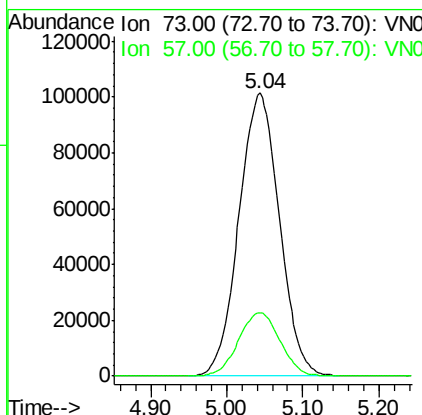
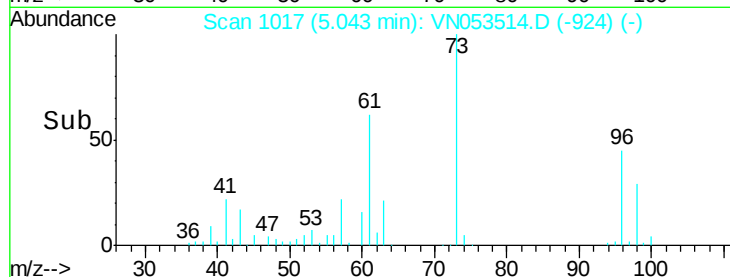
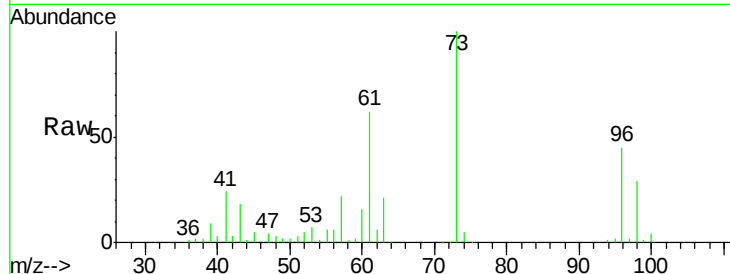
#19
Methyl tert-butyl Ether
Concen: 21.023 ug/l
RT: 5.04 min Scan# 1017
Delta R.T. 0.00 min
Lab File: VN053514.D
Acq: 22 Jan 2019 12:56

Instrument :
MSVOA_N
ClientSampleId :
VN0122WBS01

Tot Ion: 73 Resp: 375146
Ion Ratio Lower Upper
73 100
57 22.3 18.3 27.5

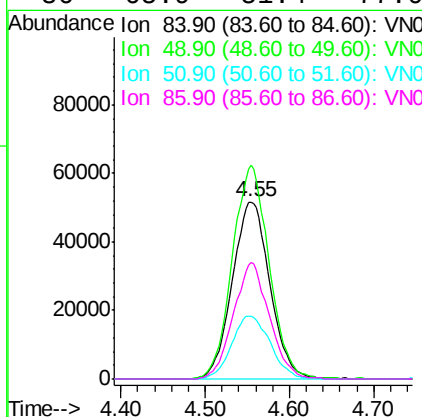
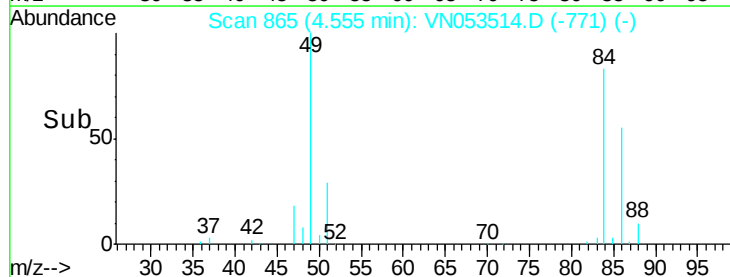
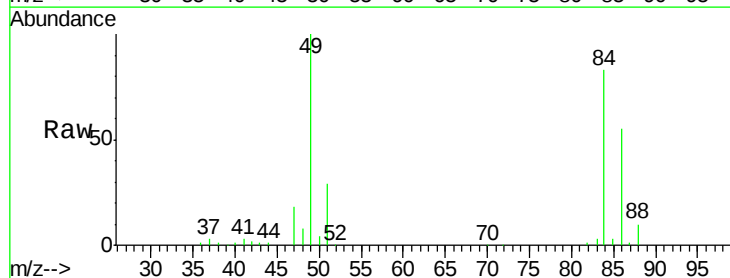
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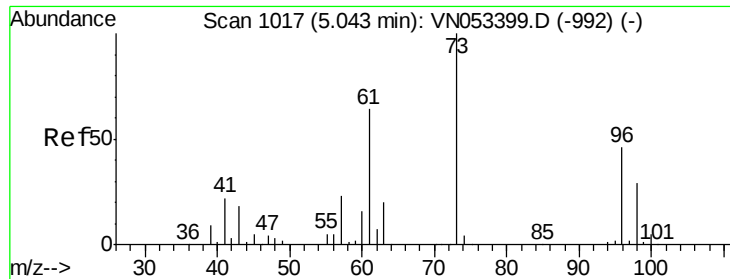
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#20
Methylene Chloride
Concen: 20.047 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN053514.D
Acq: 22 Jan 2019 12:56

Tgt Ion: 84 Resp: 160106
Ion Ratio Lower Upper
84 100
49 120.5 94.3 141.5
51 35.1 29.4 44.2
86 65.9 51.4 77.0





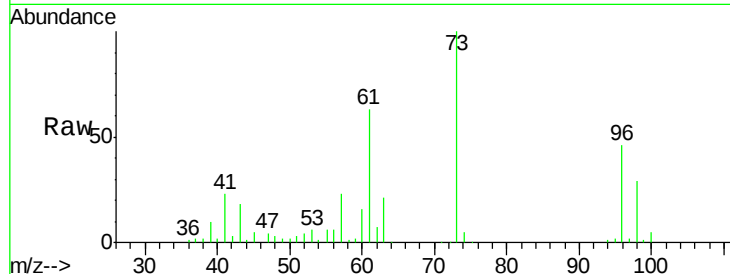
#21
trans-1,2-Dichloroethene
Concen: 20.579 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VN053514.D
Acq: 22 Jan 2019 12:56

Instrument :
MSVOA_N
ClientSampleId :
VN0122WBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	136.4	110.1	165.1
98	63.1	50.0	75.0

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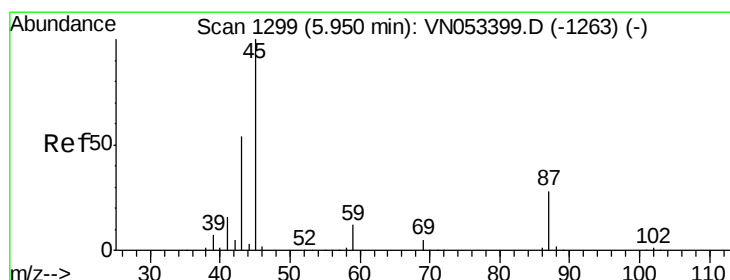
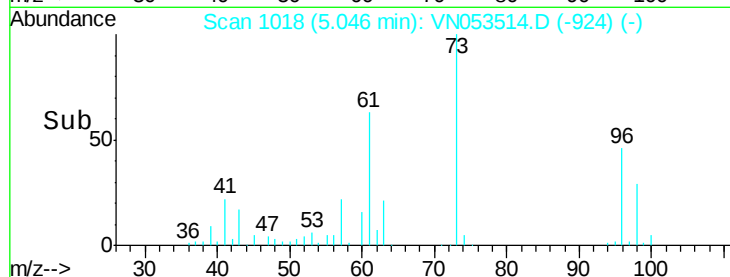
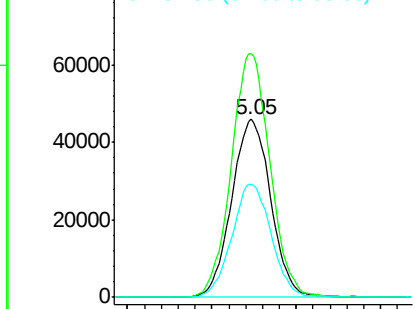


Abundance

Ion 95.90 (95.60 to 96.60): VNC

Ion 60.90 (60.60 to 61.60): VNC

Ion 97.90 (97.60 to 98.60): VNC



#22
Diisopropyl ether
Concen: 21.215 ug/l
RT: 5.95 min Scan# 1299
Delta R.T. 0.00 min
Lab File: VN053514.D
Acq: 22 Jan 2019 12:56

Tgt Ion	Ratio	Lower	Upper
45	100		
43	56.6	44.2	66.4
87	28.2	22.7	34.1
59	12.1	9.4	14.2

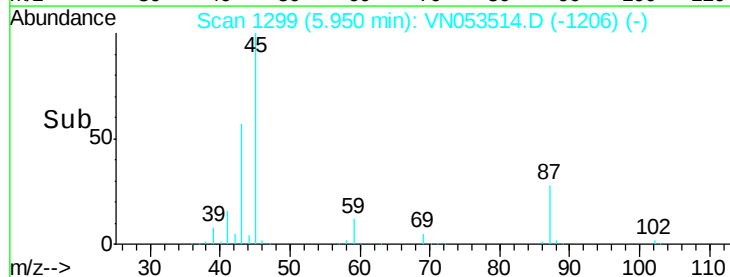
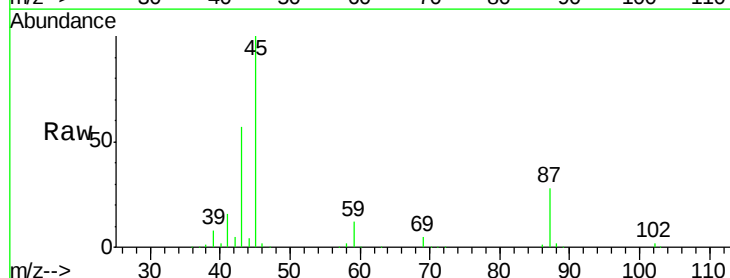
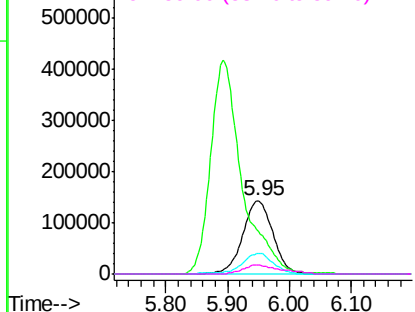
Abundance

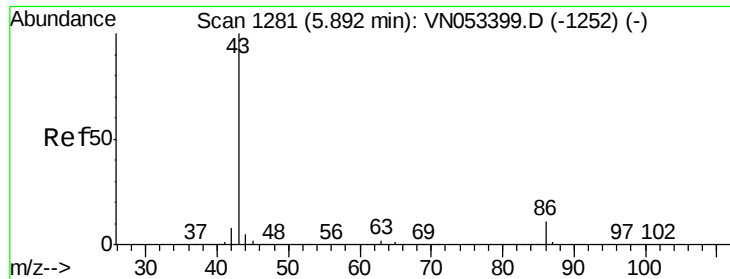
Ion 45.00 (44.70 to 45.70): VNC

Ion 43.00 (42.70 to 43.70): VNC

Ion 87.00 (86.70 to 87.70): VNC

Ion 59.00 (58.70 to 59.70): VNC





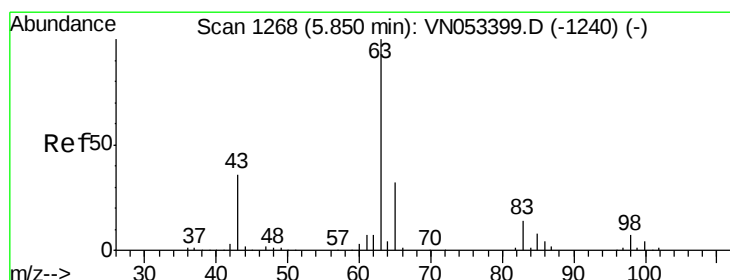
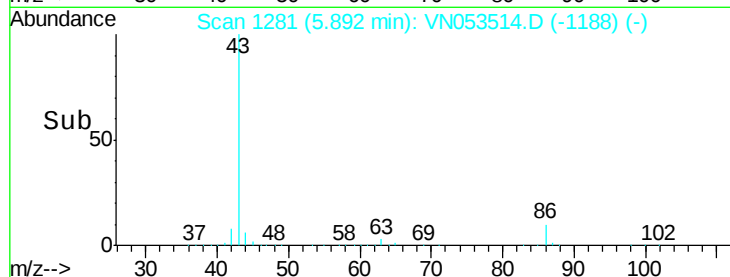
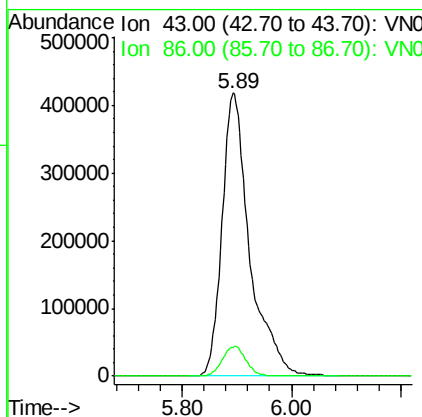
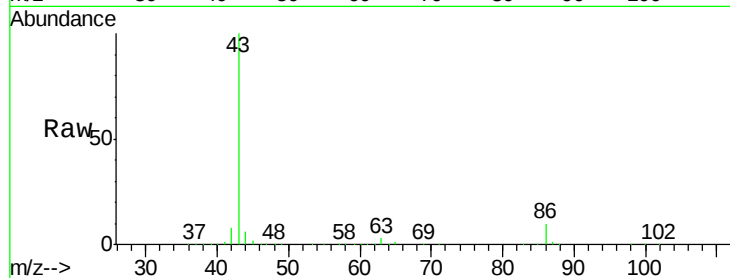
#23
 Vinyl Acetate
 Concen: 105.269 ug/l
 RT: 5.89 min Scan# 1281
 Delta R.T. 0.00 min
 Lab File: VN053514.D
 Acq: 22 Jan 2019 12:56

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0122WBS01

Tot Ion: 43 Resp: 1473680
 Ion Ratio Lower Upper
 43 100
 86 10.3 8.4 12.6

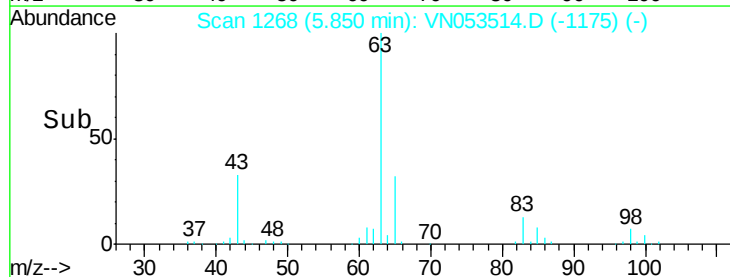
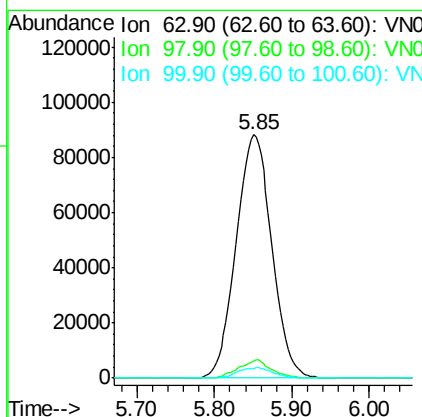
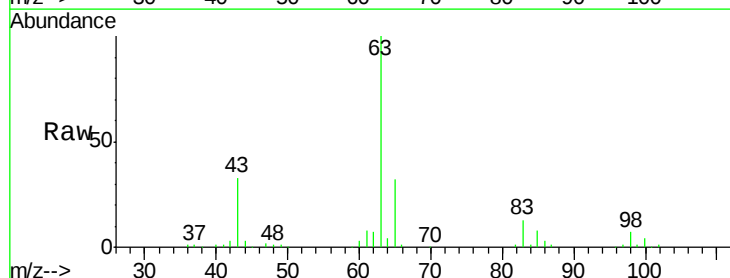
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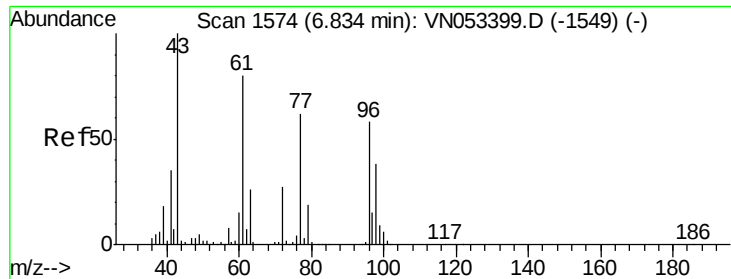
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#24
 1,1-Dichloroethane
 Concen: 20.988 ug/l
 RT: 5.85 min Scan# 1268
 Delta R.T. 0.00 min
 Lab File: VN053514.D
 Acq: 22 Jan 2019 12:56

Tgt Ion: 63 Resp: 282566
 Ion Ratio Lower Upper
 63 100
 98 7.2 3.3 9.9
 100 4.0 2.1 6.5





#25

2-Butanone

Concen: 101.645 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. 0.00 min

Lab File: VN053514.D

Acq: 22 Jan 2019 12:56

Instrument :

MSVOA_N

ClientSampled :

VN0122WBS01

Tot Ion: 43 Resp: 274004

Ion Ratio Lower Upper

43 100

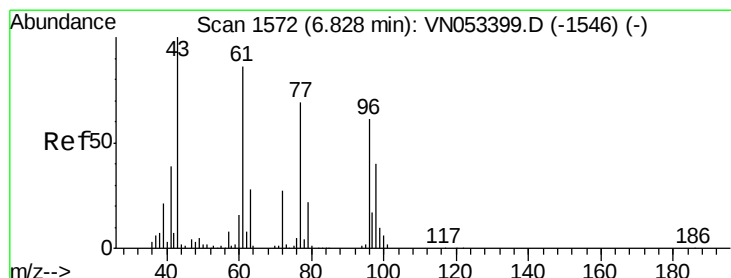
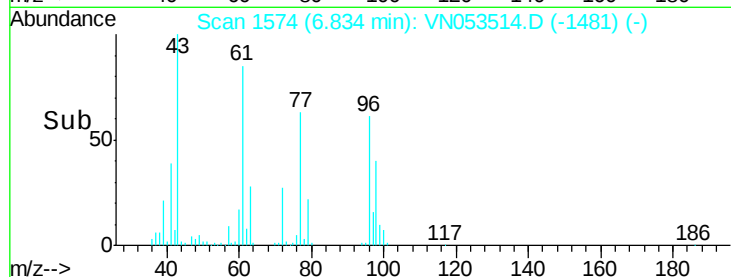
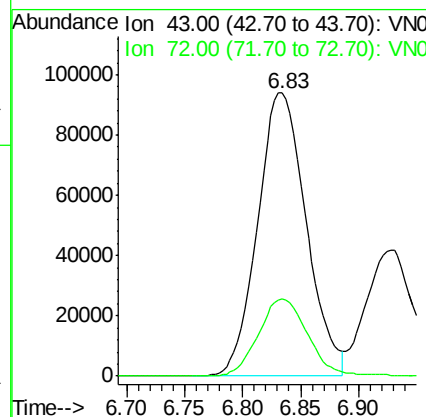
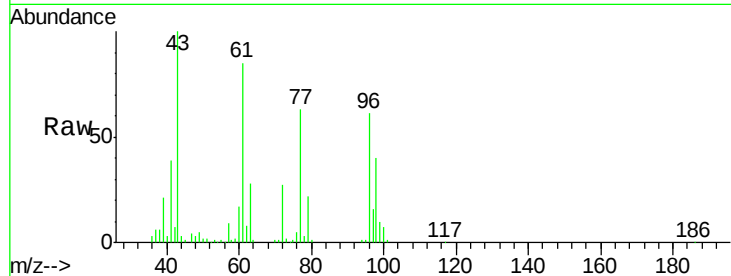
72 27.4 22.0 33.0

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 20.072 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VN053514.D

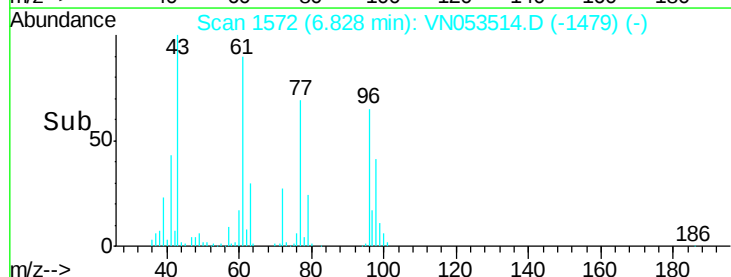
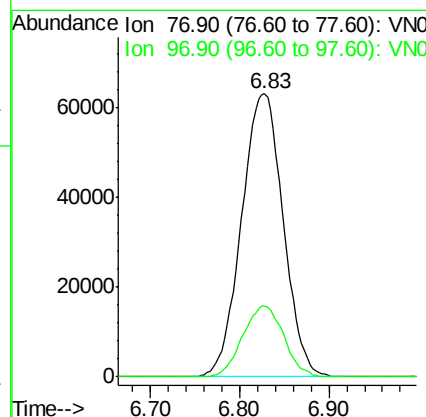
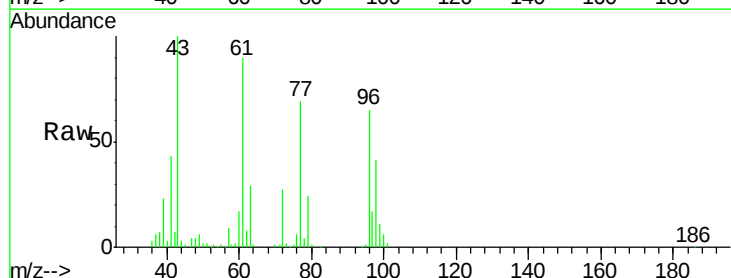
Acq: 22 Jan 2019 12:56

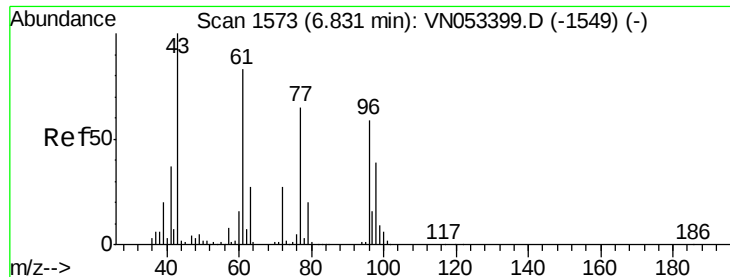
Tgt Ion: 77 Resp: 204025

Ion Ratio Lower Upper

77 100

97 24.8 12.2 36.6





#27

cis-1,2-Dichloroethene

Concen: 20.883 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VN053514.D

Acq: 22 Jan 2019 12:56

Instrument :

MSVOA_N

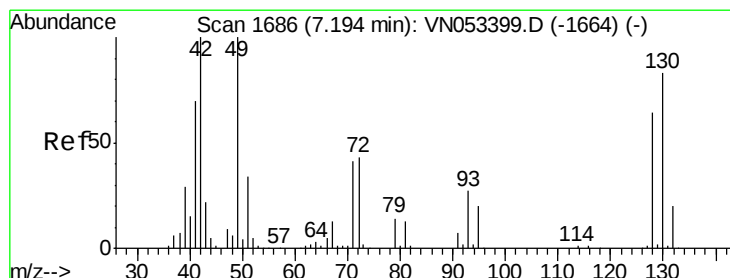
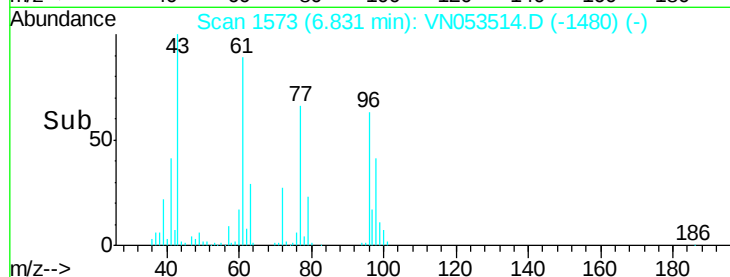
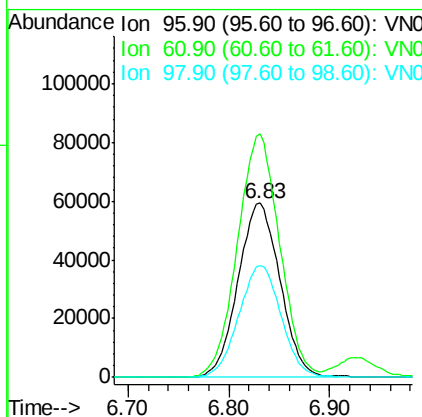
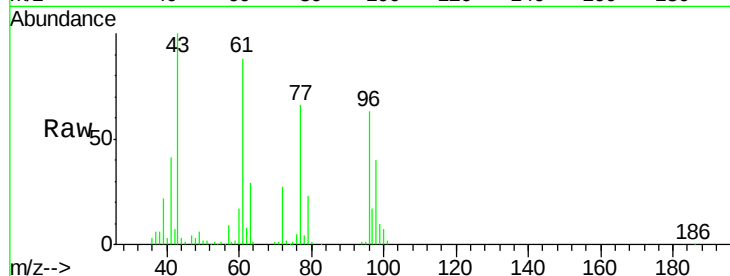
ClientSampled :

VN0122WBS01

Tot Ion:	96	Resp:	171466
Ion	Ratio	Lower	Upper
96	100		
61	140.3	0.0	283.8
98	64.9	0.0	129.2

Manual Integrations
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1/23/2019 11:00:45 AM



#28

Bromochloromethane

Concen: 19.563 ug/l

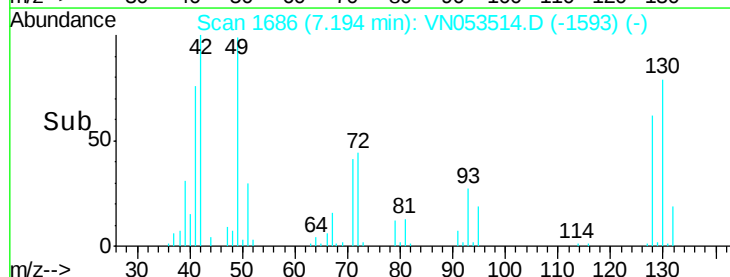
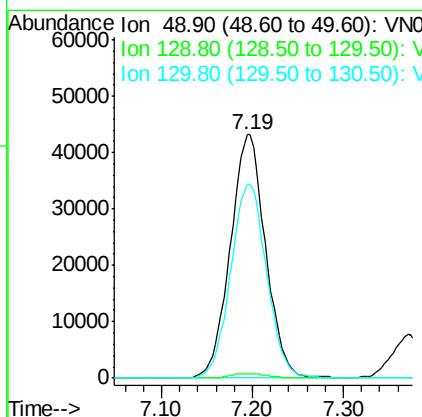
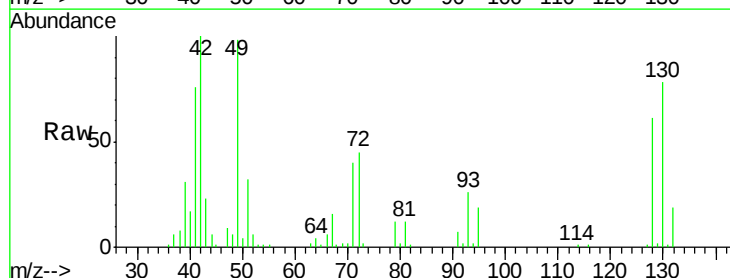
RT: 7.19 min Scan# 1686

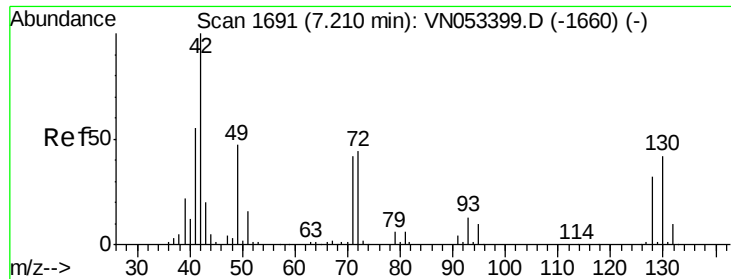
Delta R.T. 0.00 min

Lab File: VN053514.D

Acq: 22 Jan 2019 12:56

Tgt Ion:	49	Resp:	116029
Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	4.0
130	81.4	66.3	99.5





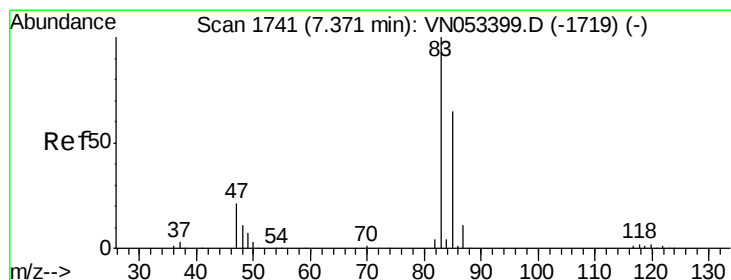
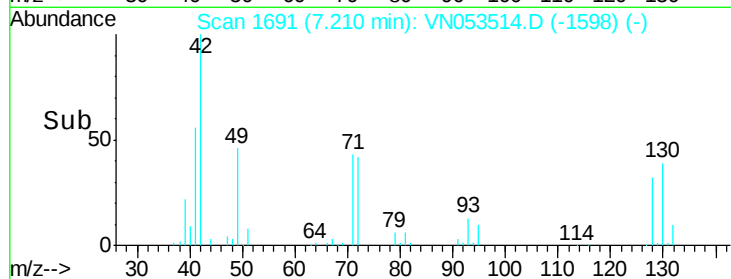
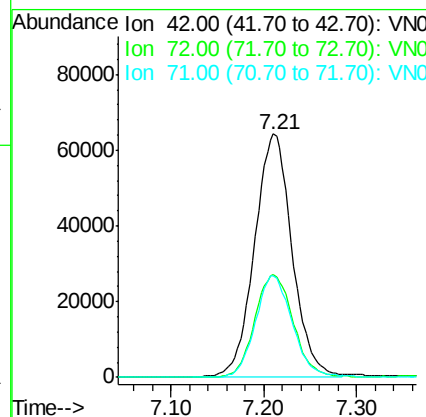
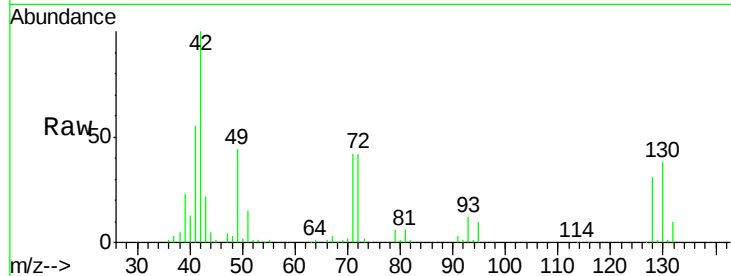
#29
Tetrahydrofuran
Concen: 103.688 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. 0.00 min
Lab File: VN053514.D
Acq: 22 Jan 2019 12:56

Instrument :
MSVOA_N
ClientSampled :
VN0122WBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	43.0	35.2	52.8
71	41.2	33.0	49.4

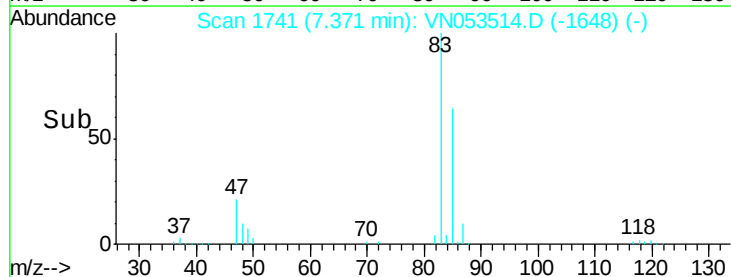
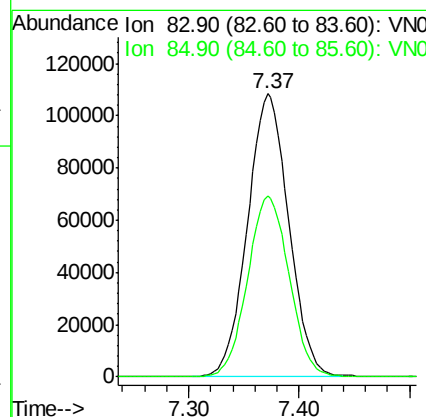
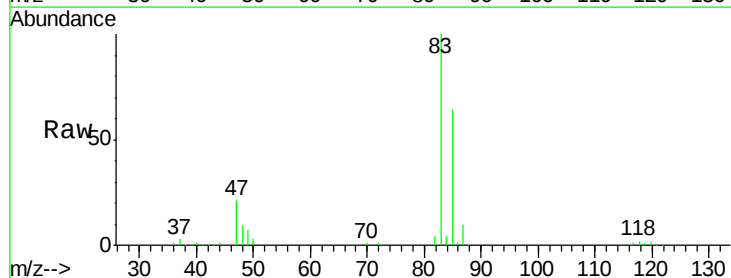
Manual Integrations
APPROVED

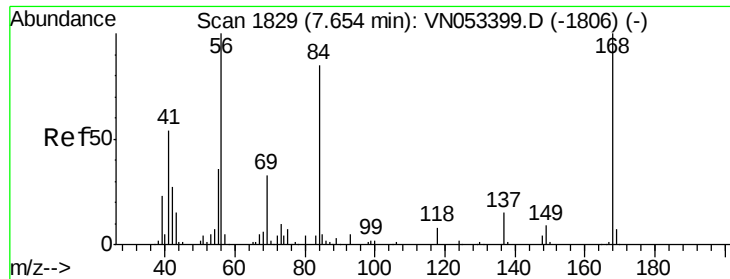
MMDadoda
1/23/2019 11:00:45 AM



#30
Chloroform
Concen: 21.380 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. 0.00 min
Lab File: VN053514.D
Acq: 22 Jan 2019 12:56

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.1	52.2	78.2





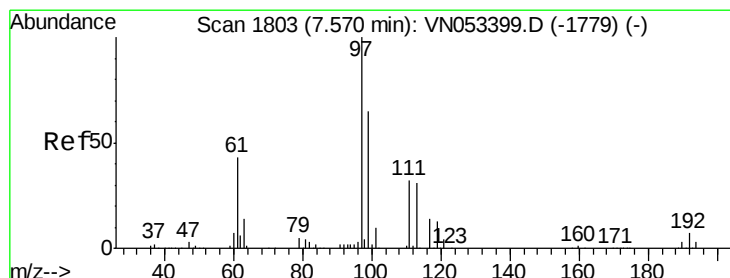
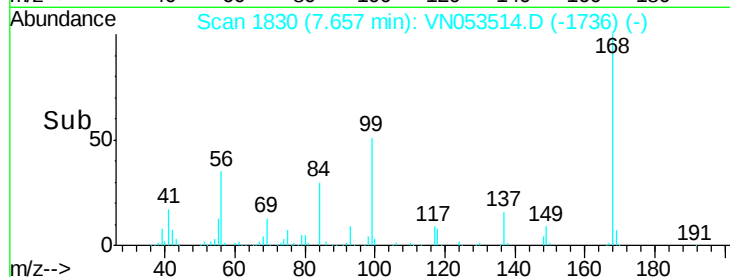
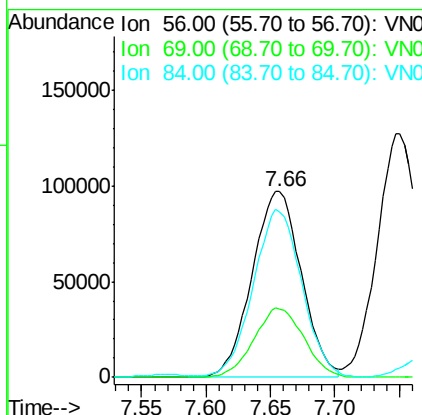
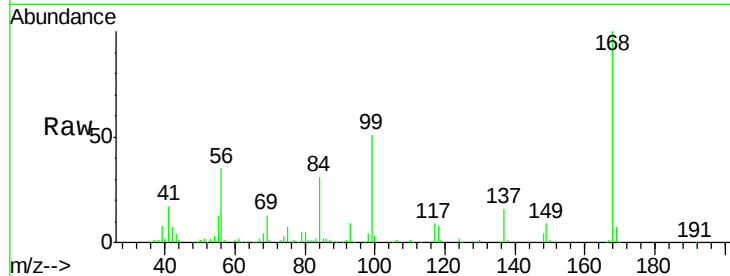
#31
Cyclohexane
Concen: 19.579 ug/l
RT: 7.66 min Scan# 1830
Delta R.T. 0.00 min
Lab File: VN053514.D
Acq: 22 Jan 2019 12:56

Instrument :
MSVOA_N
ClientSampleId :
VN0122WBS01

Tot Ion	Ratio	Lower	Upper
56	100		
69	37.0	26.4	39.6
84	88.1	67.9	101.9

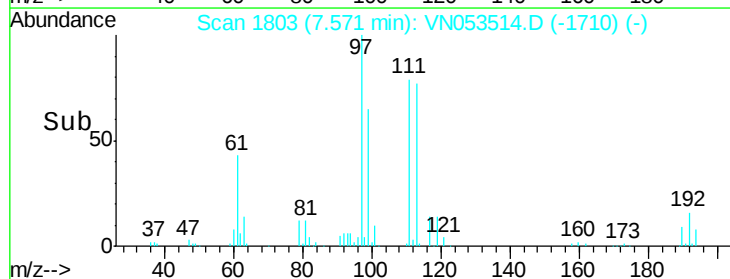
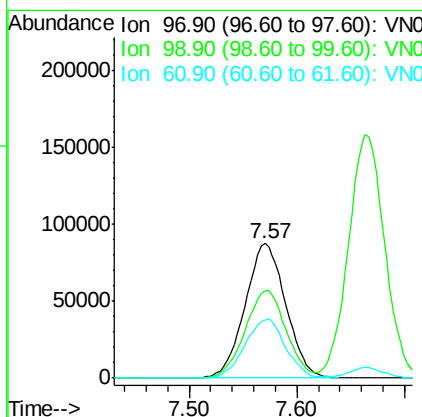
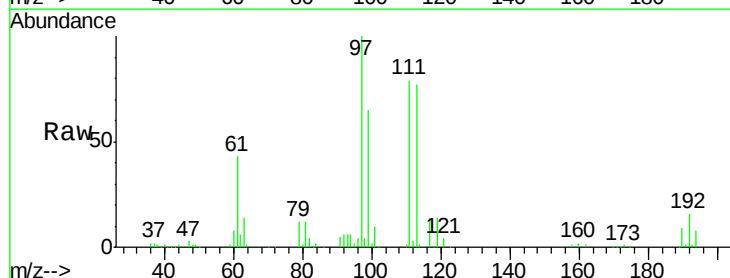
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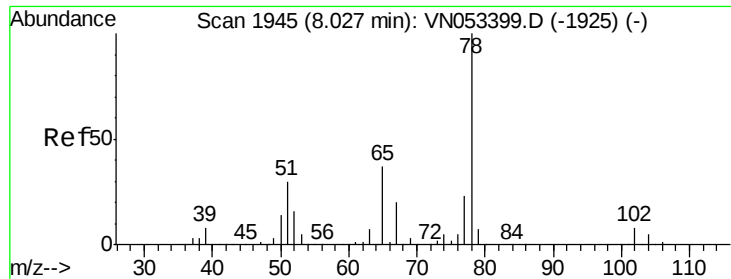
MMDadoda
1/23/2019 11:00:45 AM



#32
1,1,1-Trichloroethane
Concen: 20.599 ug/l
RT: 7.57 min Scan# 1803
Delta R.T. 0.00 min
Lab File: VN053514.D
Acq: 22 Jan 2019 12:56

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.2	52.0	78.0
61	43.6	34.4	51.6





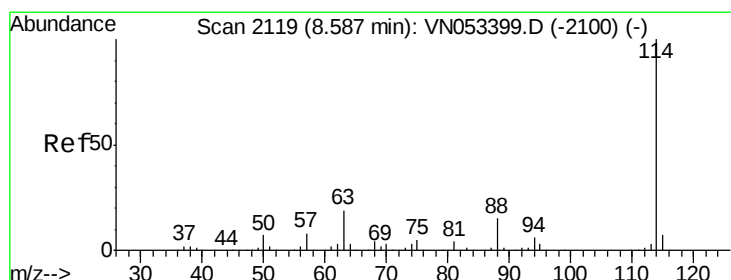
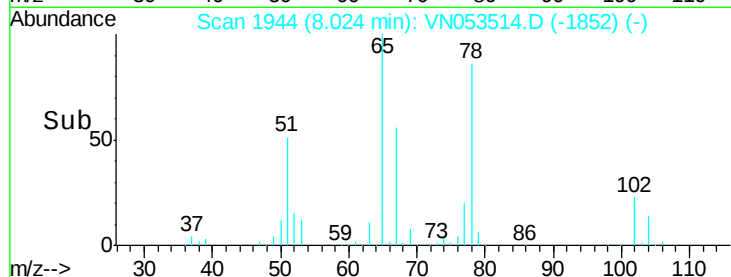
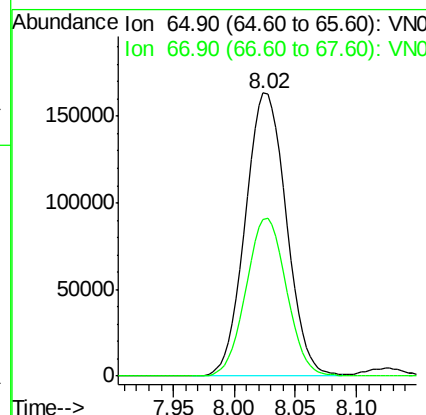
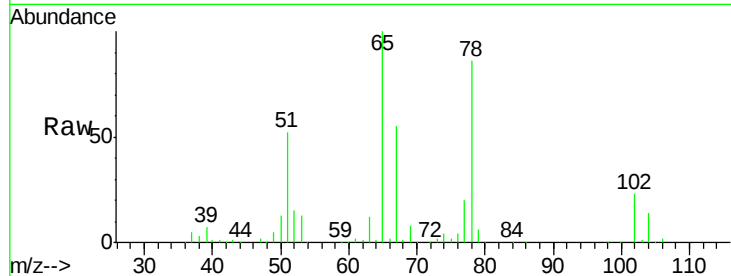
#33
 1,2-Dichloroethane-d4
 Concen: 20.599 ug/l
 RT: 8.02 min Scan# 1944
 Delta R.T. -0.00 min
 Lab File: VN053514.D
 Acq: 22 Jan 2019 12:56

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0122WBS01

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	54.9	0.0		111.2

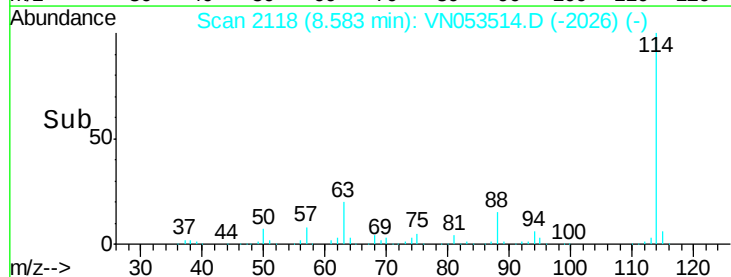
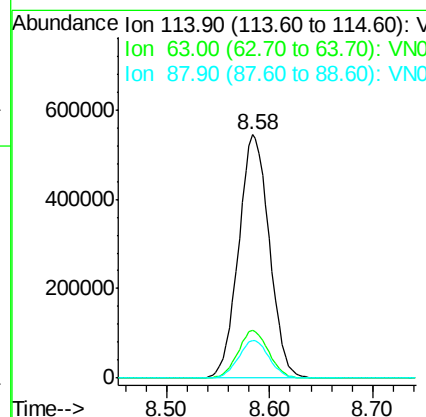
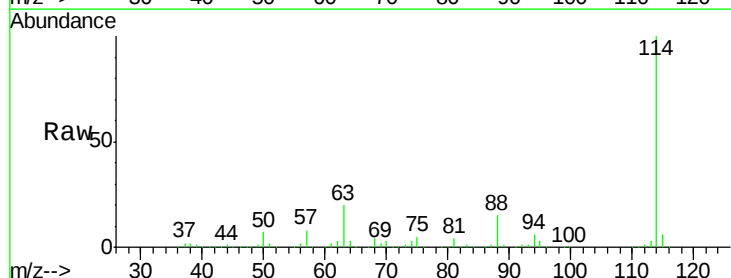
Manual Integrations
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN053514.D
 Acq: 22 Jan 2019 12:56

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	19.7	0.0		38.6
88	15.4	0.0		30.4





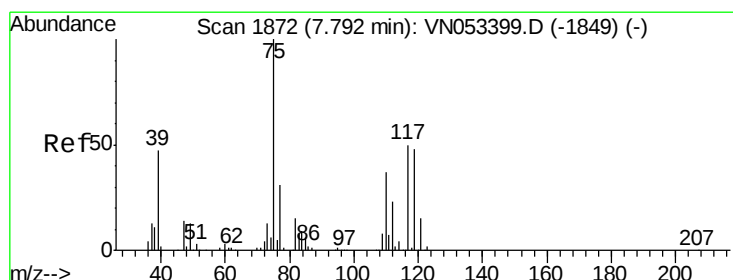
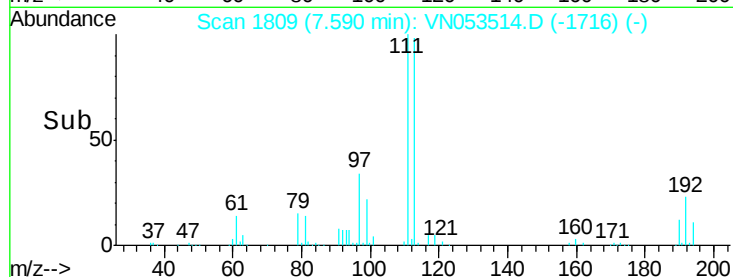
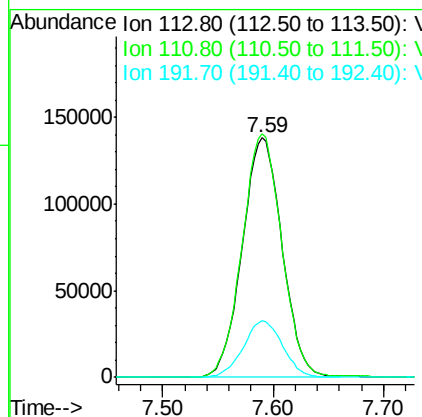
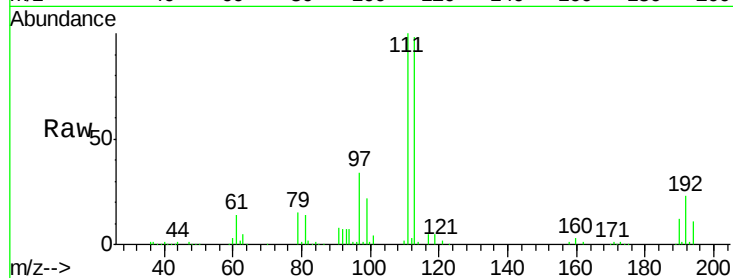
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN053514.D
 Acq: 22 Jan 2019 12:56

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0122WBS01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	346146		
111	101.6	81.1	121.7	
192	23.4	18.2	27.2	

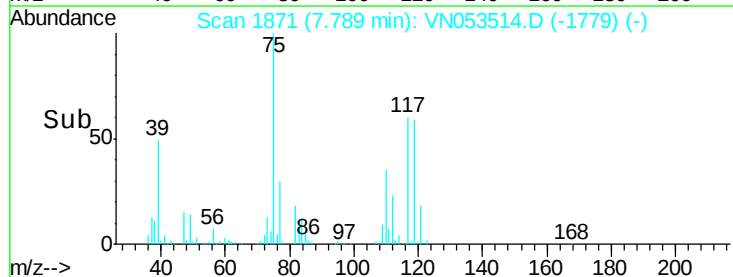
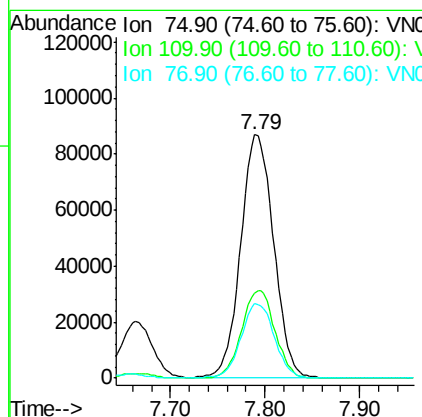
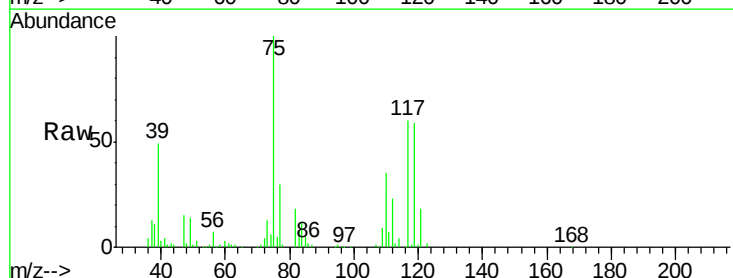
Manual Integrations
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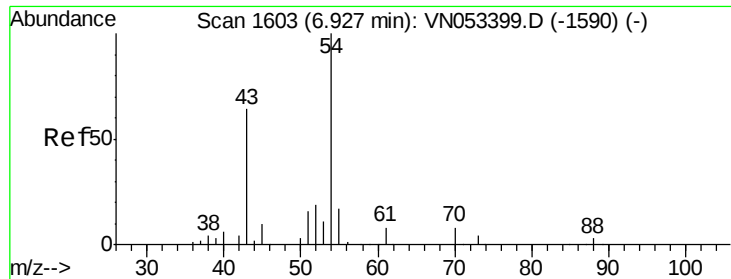
MMDadoda
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#36
 1,1-Dichloropropene
 Concen: 20.391 ug/l
 RT: 7.79 min Scan# 1871
 Delta R.T. -0.00 min
 Lab File: VN053514.D
 Acq: 22 Jan 2019 12:56

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	209794		
110	36.4	18.1	54.3	
77	31.1	25.1	37.7	





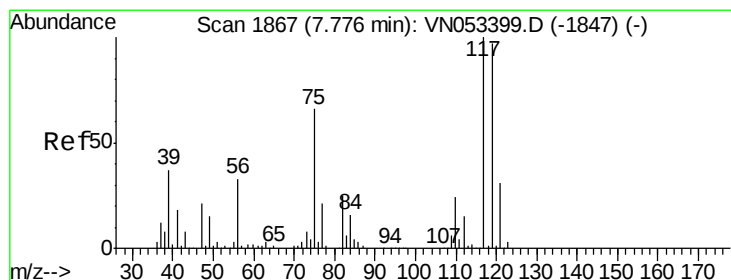
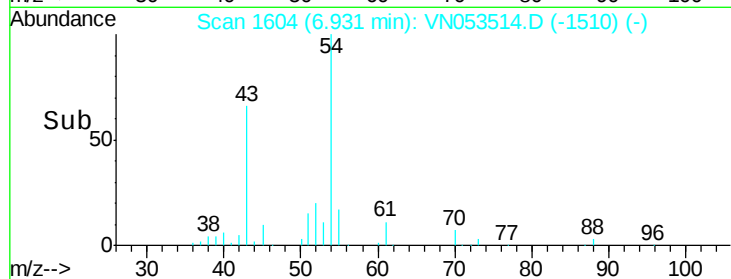
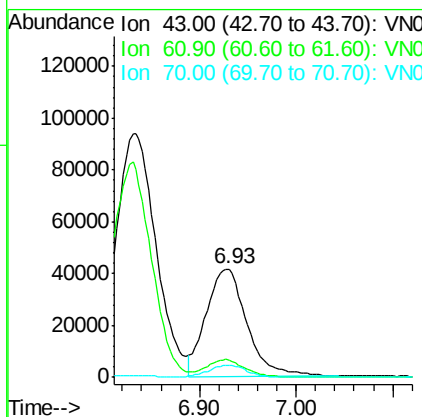
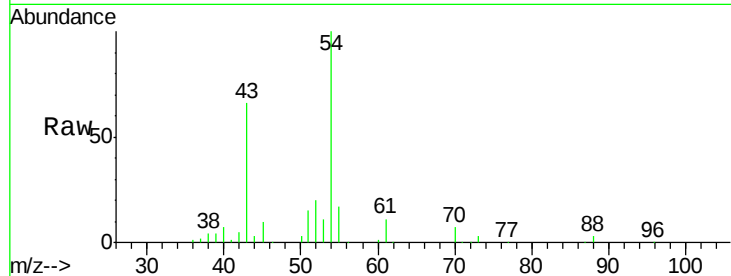
#37
Ethyl Acetate
Concen: 20.515 ug/l
RT: 6.93 min Scan# 1604
Delta R.T. 0.00 min
Lab File: VN053514.D
Acq: 22 Jan 2019 12:56

Instrument :
MSVOA_N
ClientSampleId :
VN0122WBS01

Tot Ion	43	61	70
Resp	121437		
Ratio	100	14.2	10.7
Lower		11.8	8.6
Upper		17.6	12.8

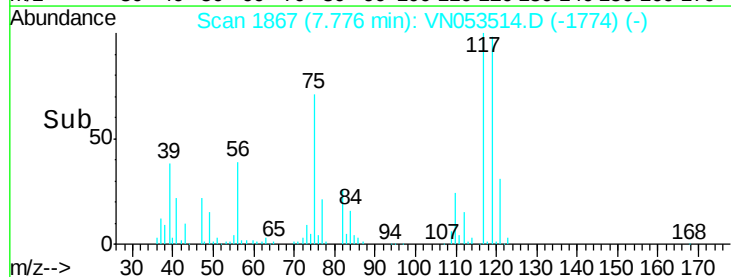
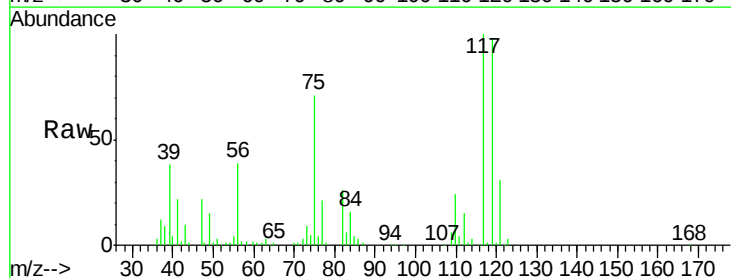
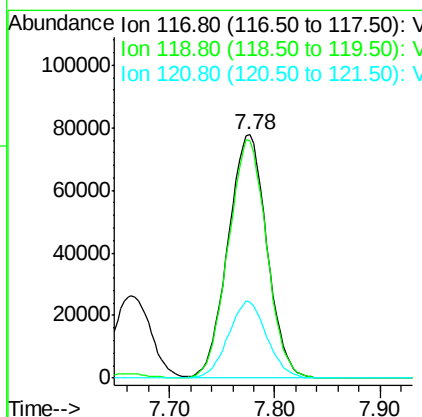
Manual Integrations
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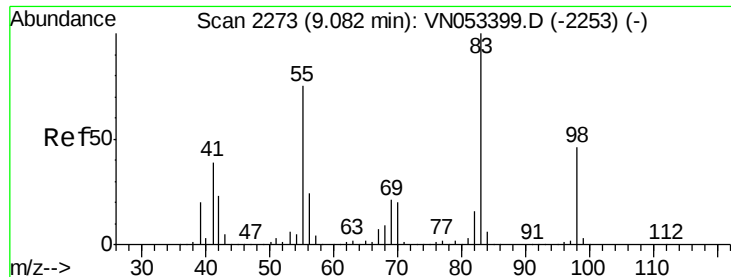
MMDadoda
1/23/2019 11:00:45 AM



#38
Carbon Tetrachloride
Concen: 20.418 ug/l
RT: 7.78 min Scan# 1867
Delta R.T. 0.00 min
Lab File: VN053514.D
Acq: 22 Jan 2019 12:56

Tgt Ion	117	119	121
Resp	198880		
Ratio	100	97.6	31.0
Lower		77.2	24.6
Upper		115.8	37.0





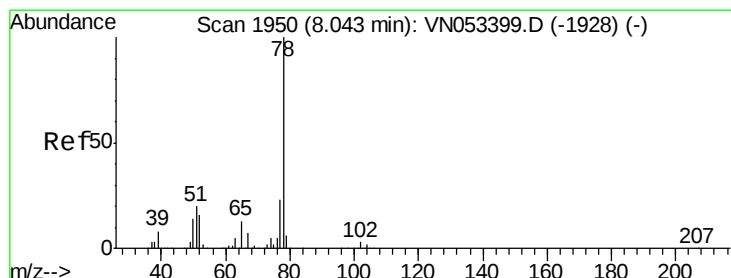
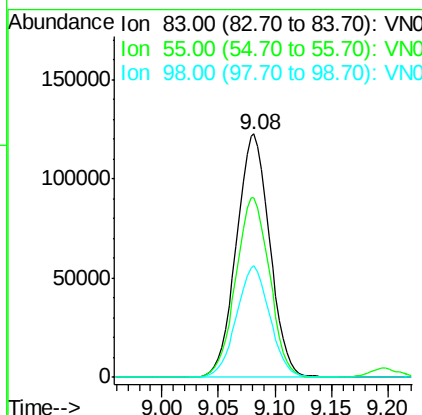
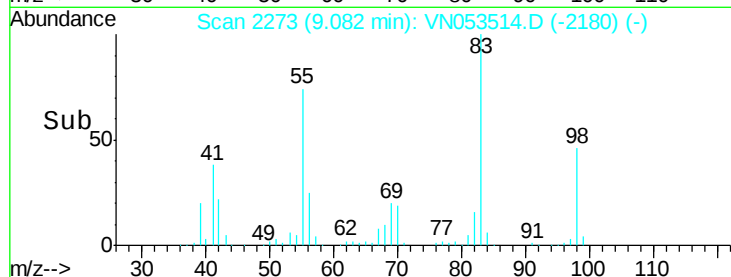
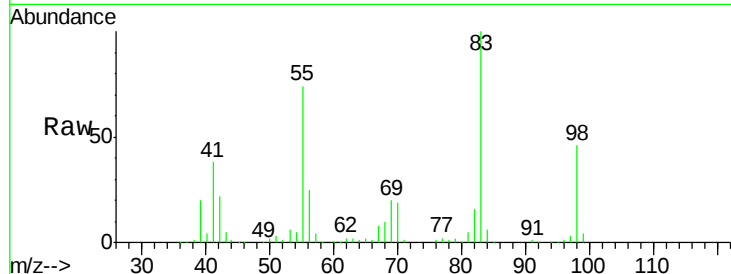
#39
Methvlcvclohexane
Concen: 19.818 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN053514.D
Acq: 22 Jan 2019 12:56

Instrument :
MSVOA_N
ClientSampleId :
VN0122WBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	73.7	60.1	90.1
98	45.7	36.6	55.0

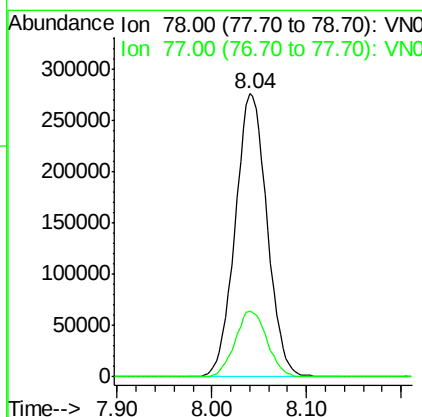
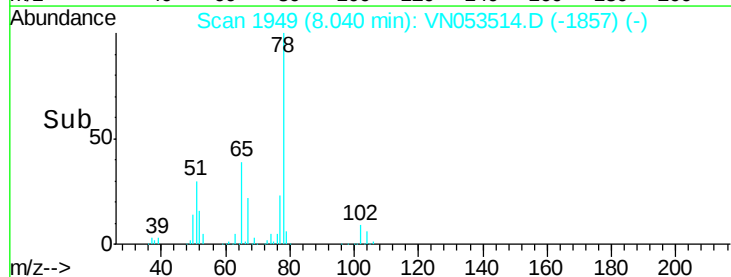
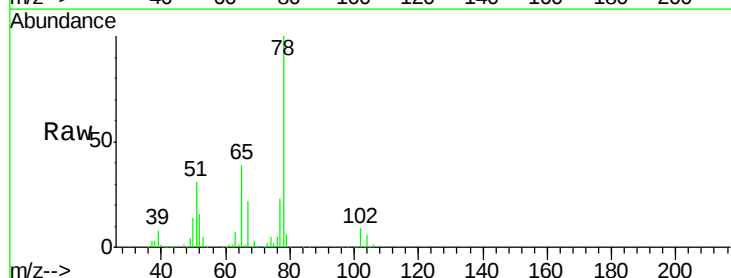
Manual Integrations
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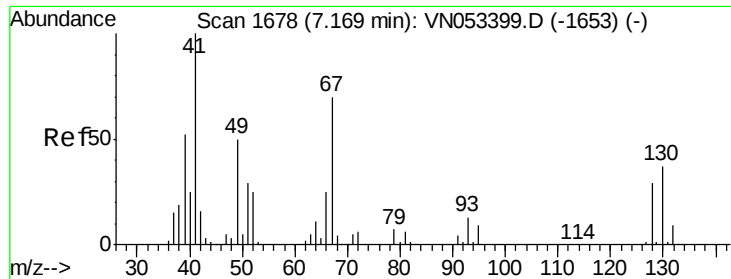
MMDadoda
1/23/2019 11:00:45 AM



#40
Benzene
Concen: 20.645 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. -0.00 min
Lab File: VN053514.D
Acq: 22 Jan 2019 12:56

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.3	18.8	28.2





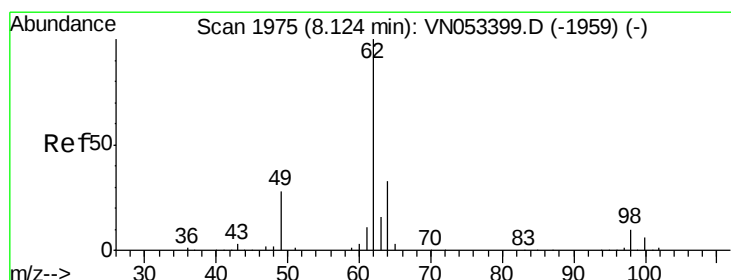
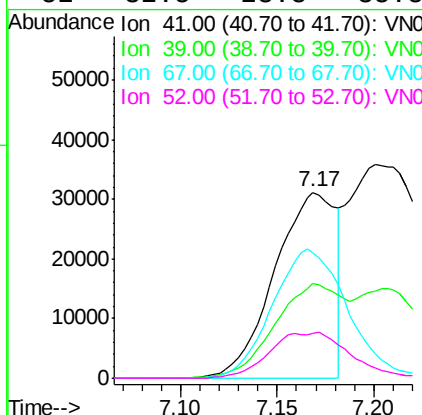
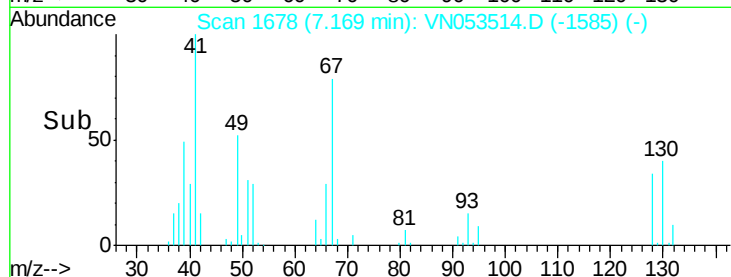
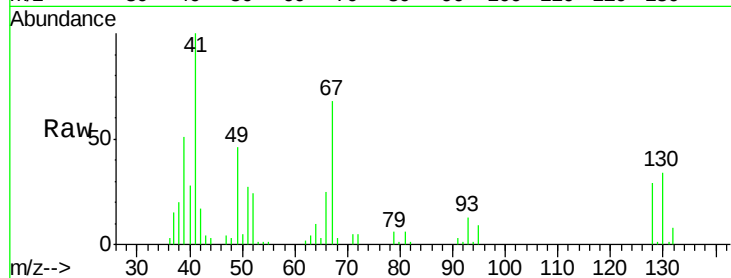
#41
Methacrylonitrile
Concen: 19.950 ug/l
RT: 7.17 min Scan# 1678
Delta R.T. 0.00 min
Lab File: VN053514.D
Acq: 22 Jan 2019 12:56

Instrument :
MSVOA_N
ClientSampleId :
VN0122WBS01

Tot Ion	Ratio	Lower	Upper
41	100		
39	58.0	46.8	70.2
67	85.7	63.0	94.6
52	32.5	23.8	35.8

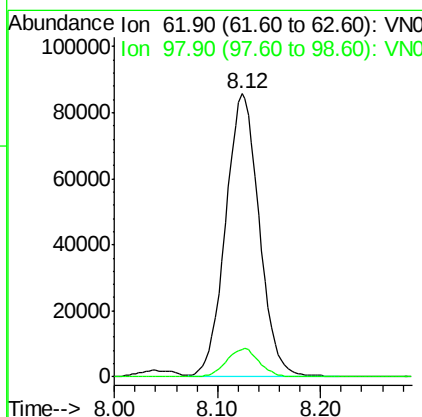
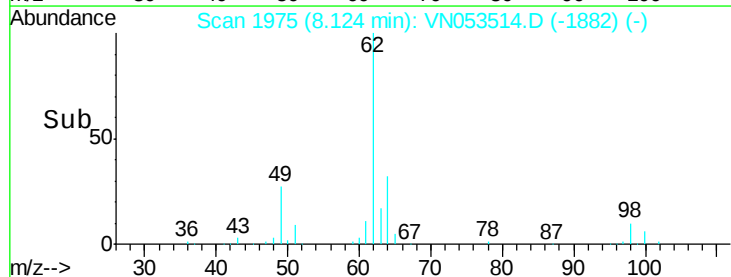
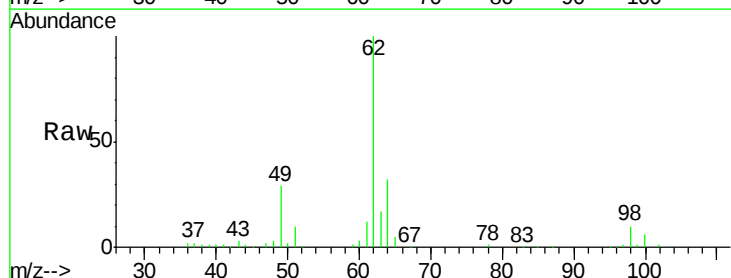
Manual Integrations
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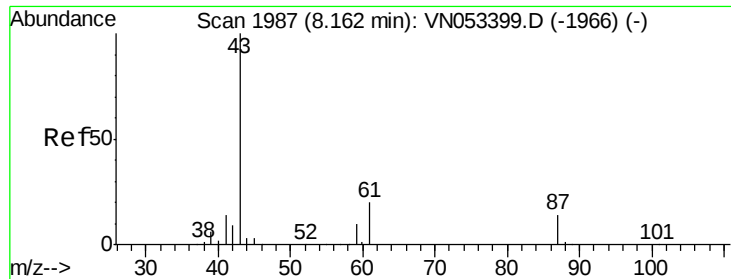
MMDadoda
1/23/2019 11:00:45 AM



#42
1,2-Dichloroethane
Concen: 21.260 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. 0.00 min
Lab File: VN053514.D
Acq: 22 Jan 2019 12:56

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.7	0.0	19.6





#43

Isopropyl Acetate

Concen: 21.105 ug/l

RT: 8.16 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN053514.D

Acq: 22 Jan 2019 12:56

Instrument :

MSVOA_N

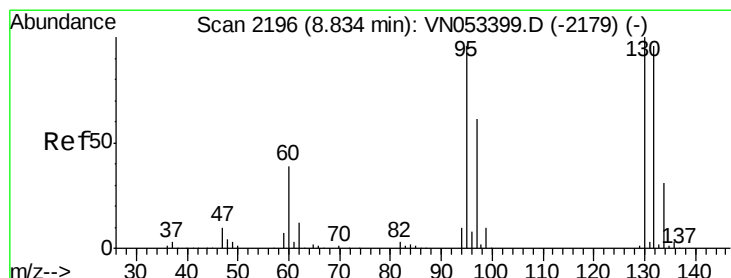
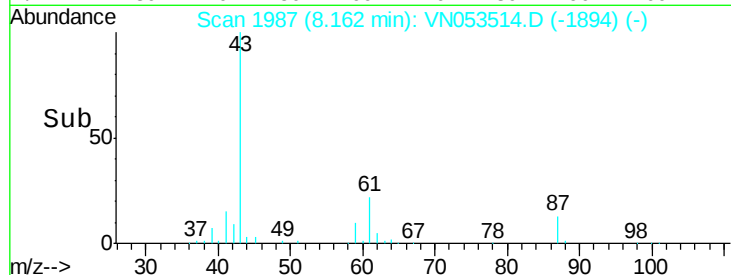
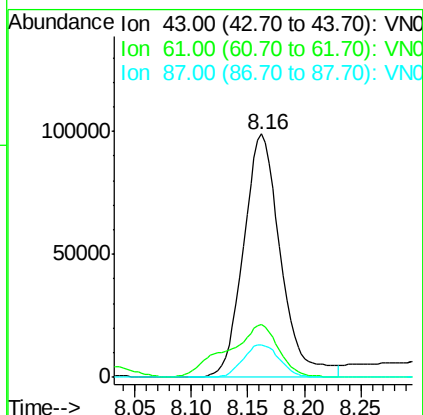
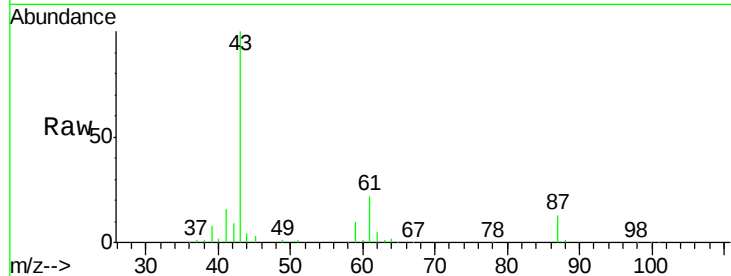
ClientSampleId :

VN0122WBS01

Tot Ion:	43	Resp:	224638
Ion	Ratio	Lower	Upper
43	100		
61	29.8	23.9	35.9
87	13.4	11.0	16.6

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#44

Trichloroethene

Concen: 20.942 ug/l

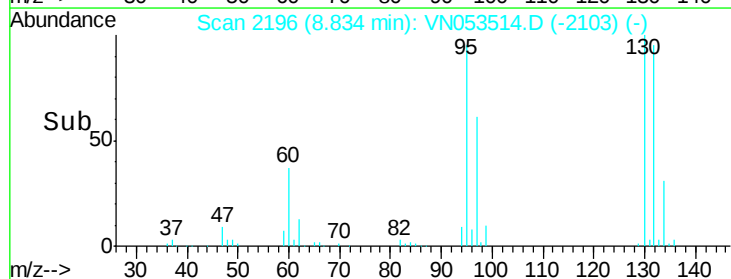
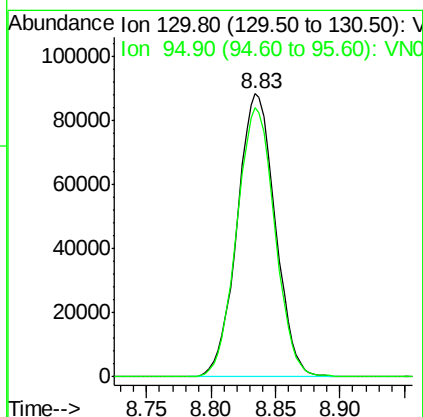
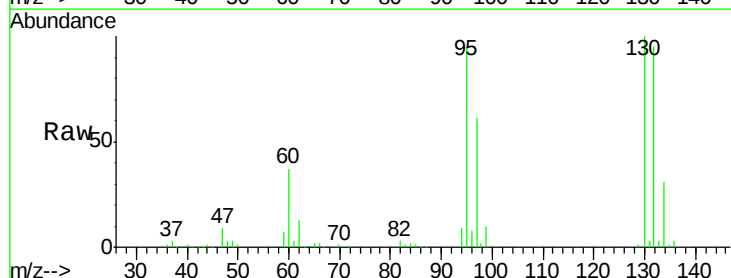
RT: 8.83 min Scan# 2196

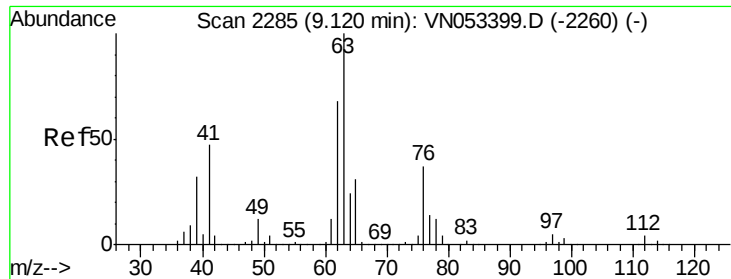
Delta R.T. 0.00 min

Lab File: VN053514.D

Acq: 22 Jan 2019 12:56

Tgt Ion:	130	Resp:	181571
Ion	Ratio	Lower	Upper
130	100		
95	95.0	0.0	191.4





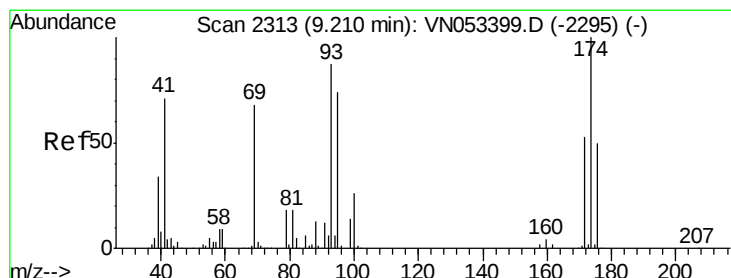
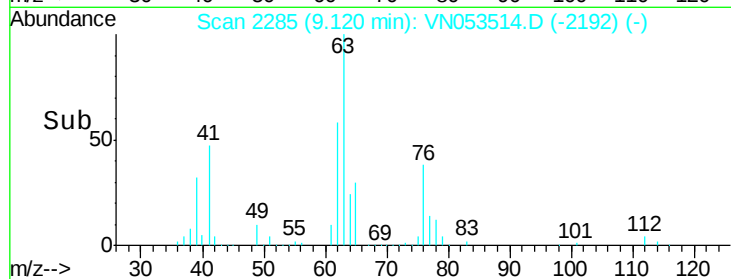
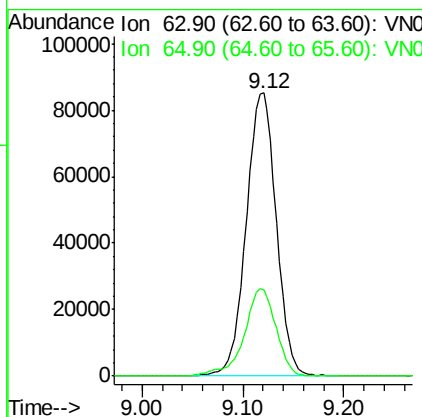
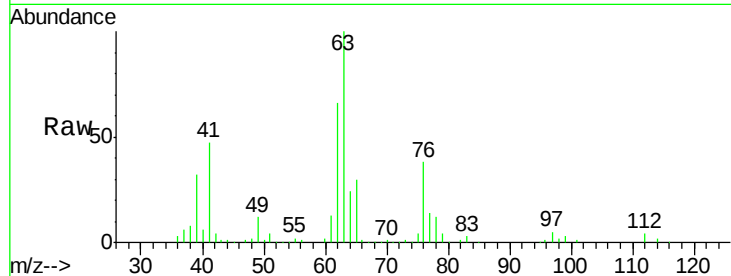
#45
 1,2-Dichloropropane
 Concen: 21.126 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN053514.D
 Acq: 22 Jan 2019 12:56

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0122WBS01

Tot Ion: 63 Resp: 174951
 Ion Ratio Lower Upper
 63 100
 65 30.4 25.0 37.4

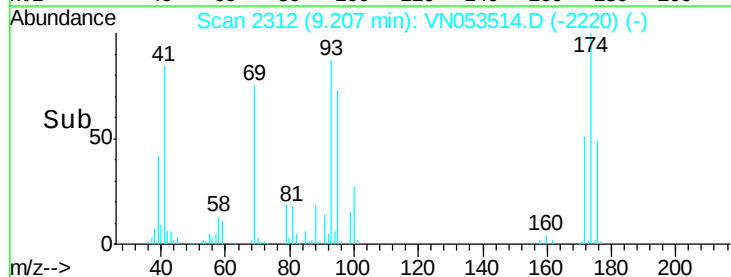
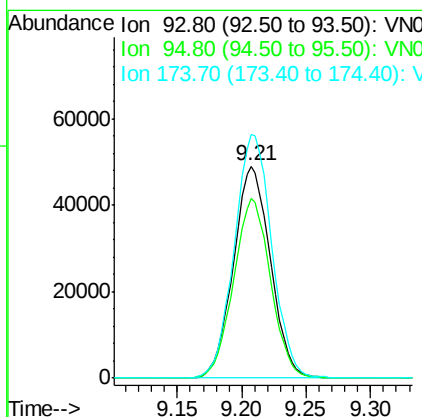
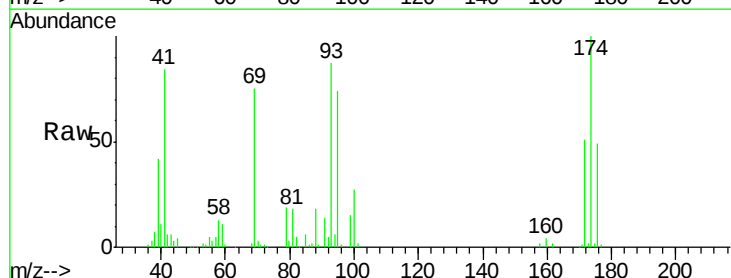
Manual Integrations
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 1/23/2019 11:00:45 AM



#46
 Dibromomethane
 Concen: 20.564 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. -0.00 min
 Lab File: VN053514.D
 Acq: 22 Jan 2019 12:56

Tgt Ion: 93 Resp: 97842
 Ion Ratio Lower Upper
 93 100
 95 84.7 67.3 100.9
 174 116.6 91.0 136.4





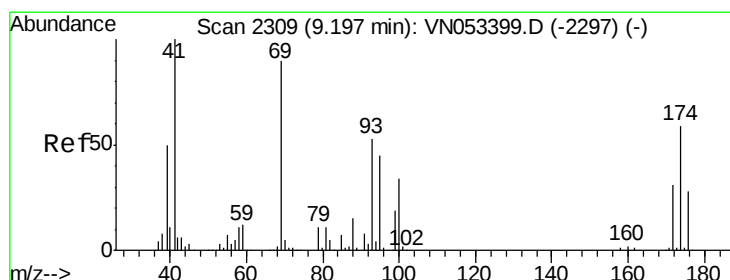
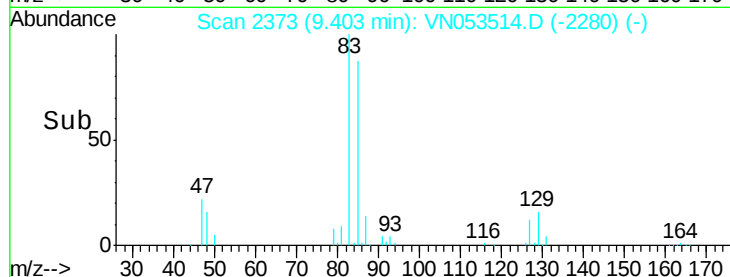
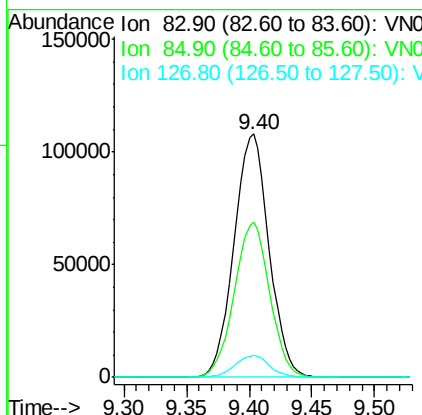
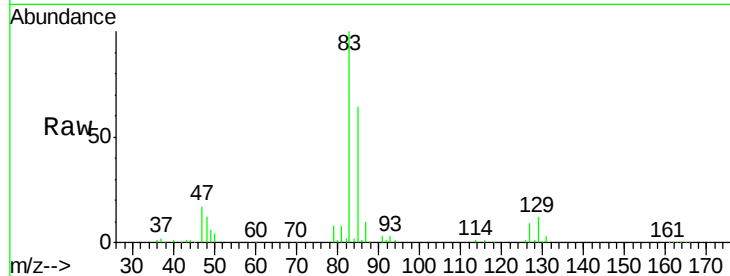
#47
Bromodichloromethane
Concen: 20.966 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. 0.00 min
Lab File: VN053514.D
Acq: 22 Jan 2019 12:56

Instrument :
MSVOA_N
ClientSampleId :
VN0122WBS01

Tot Ion	Ratio	Resp	Lower	Upper
83	100	209776		
85	63.8		51.0	76.6
127	8.9		7.0	10.6

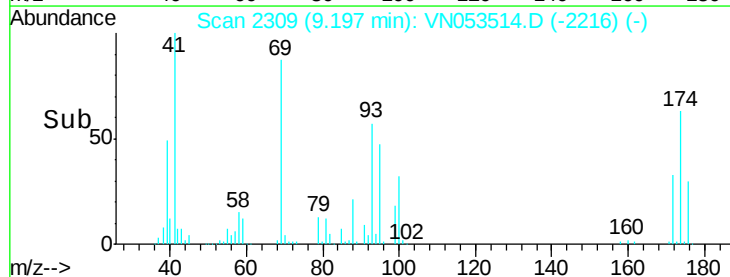
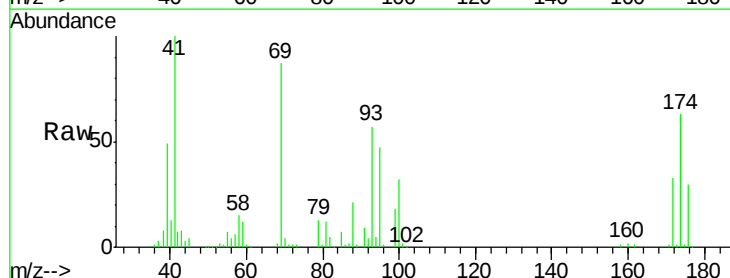
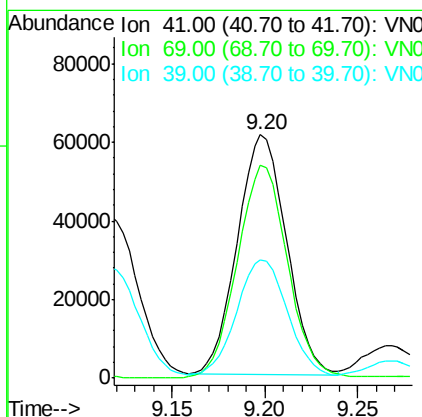
Manual Integrations
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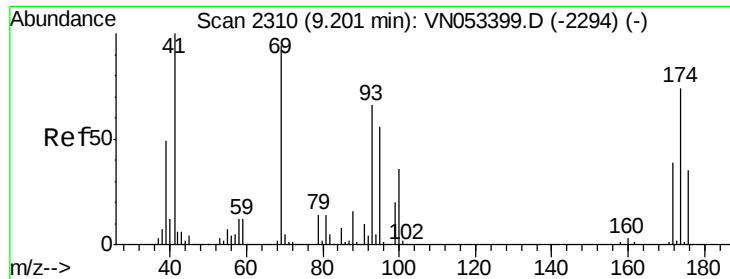
MMDadoda
1/23/2019 11:00:45 AM



#48
Methyl methacrylate
Concen: 20.446 ug/l
RT: 9.20 min Scan# 2309
Delta R.T. 0.00 min
Lab File: VN053514.D
Acq: 22 Jan 2019 12:56

Tgt Ion	Ratio	Resp	Lower	Upper
41	100	112362		
69	91.1		73.8	110.6
39	52.3		40.0	60.0





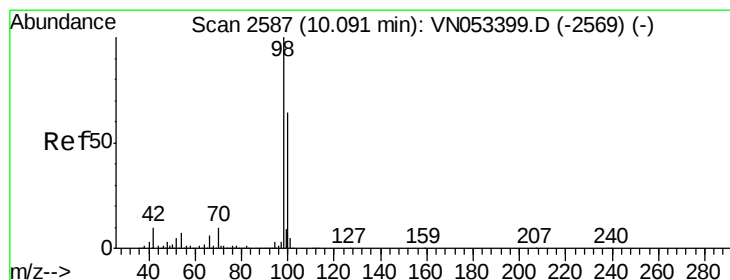
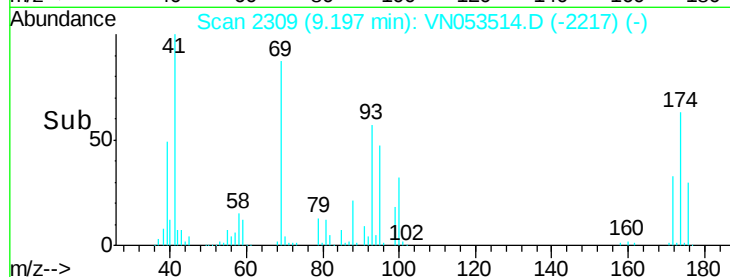
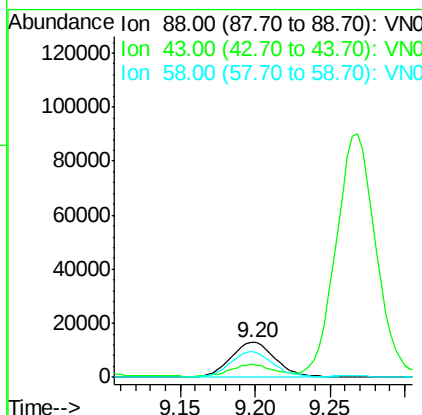
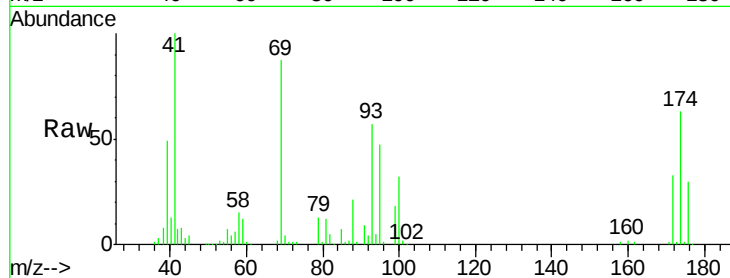
#49
1,4-Dioxane
Concen: 502.597 ug/l
RT: 9.20 min Scan# 2309
Delta R.T. -0.00 min
Lab File: VN053514.D
Acq: 22 Jan 2019 12:56

Instrument :
MSVOA_N
ClientSampleId :
VN0122WBS01

Tot Ion	Ratio	Lower	Upper
88	100		
43	32.4	27.8	41.6
58	71.1	56.5	84.7

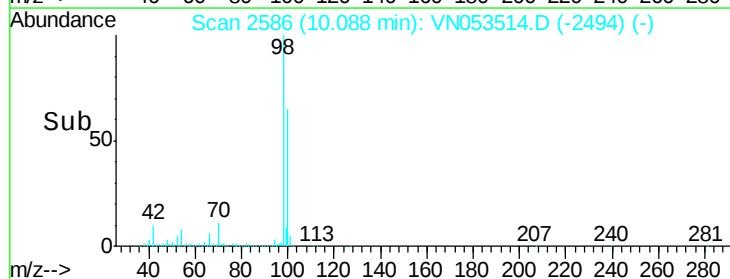
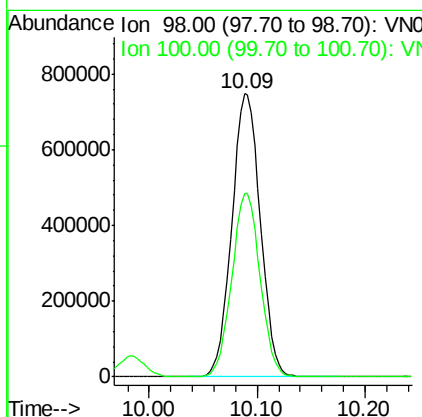
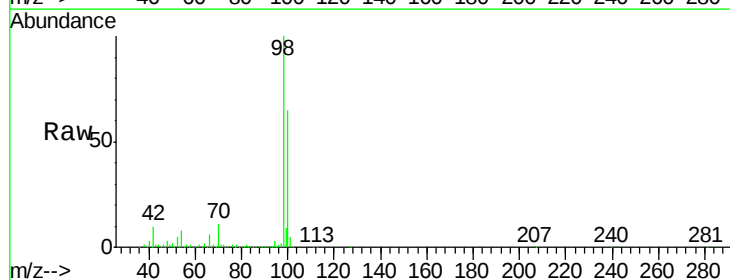
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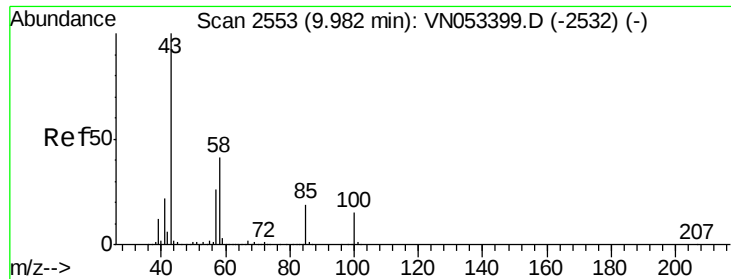
MMDadoda
1/23/2019 11:00:45 AM



#50
Toluene-d8
Concen: 502.597 ug/l
RT: 10.09 min Scan# 2586
Delta R.T. -0.00 min
Lab File: VN053514.D
Acq: 22 Jan 2019 12:56

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.2	51.4	77.0





#51

4-Methyl-2-Pentanone

Concen: 104.535 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. 0.00 min

Lab File: VN053514.D

Acq: 22 Jan 2019 12:56

Instrument :

MSVOA_N

ClientSampleId :

VN0122WBS01

Tot Ion: 43 Resp: 607384

Ion Ratio Lower Upper

43 100

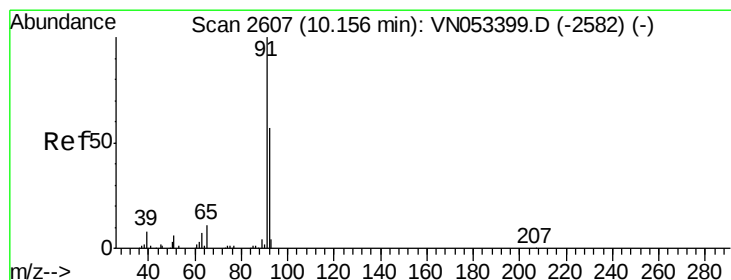
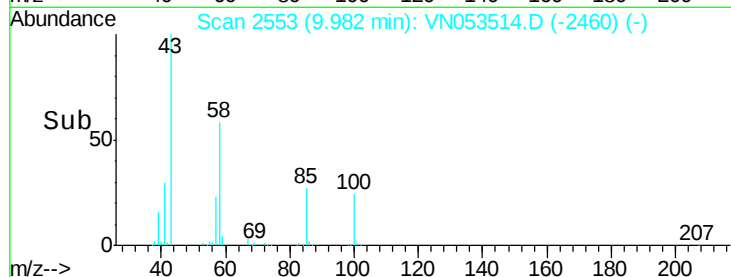
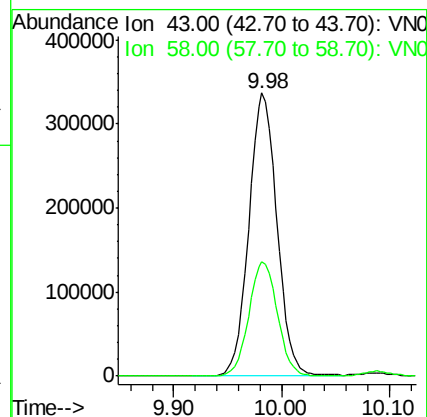
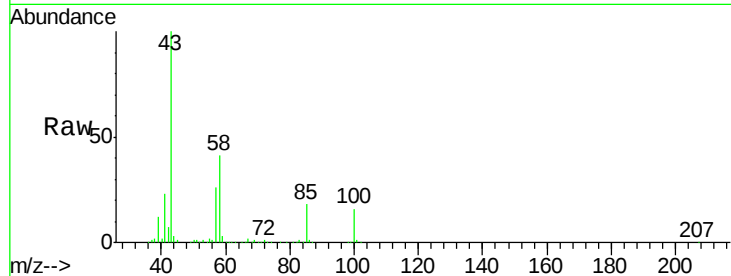
58 41.2 32.8 49.2

Manual Integrations

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#52

Toluene

Concen: 20.501 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN053514.D

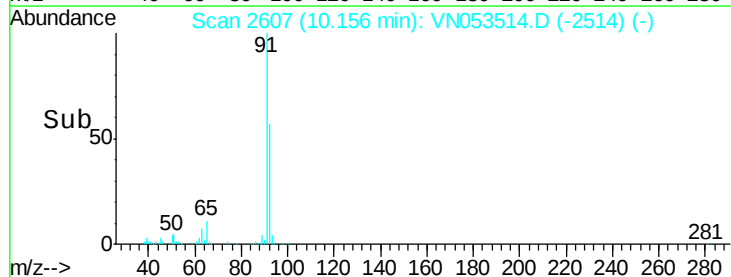
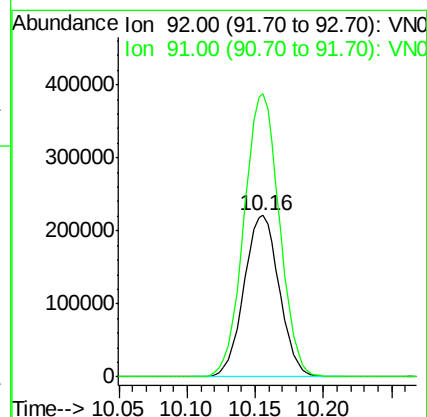
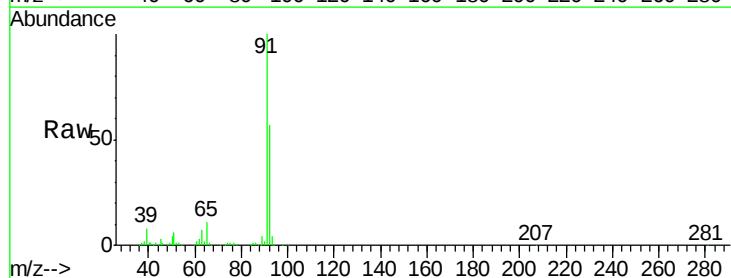
Acq: 22 Jan 2019 12:56

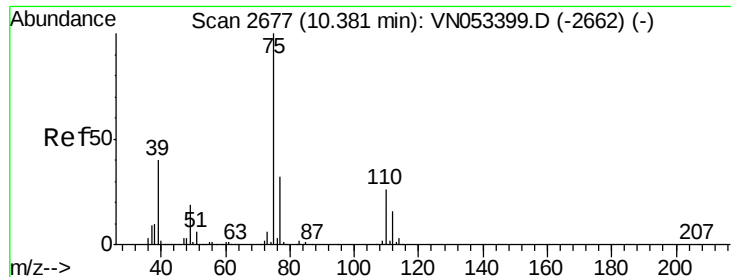
Tgt Ion: 92 Resp: 397929

Ion Ratio Lower Upper

92 100

91 175.5 139.9 209.9





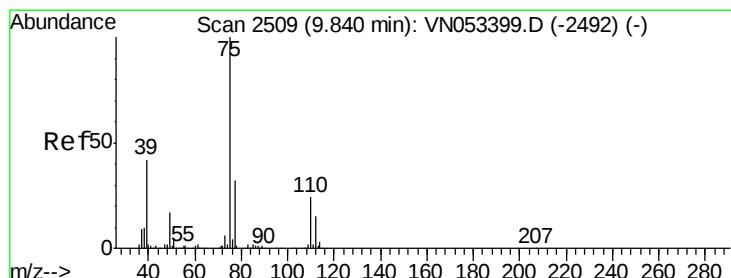
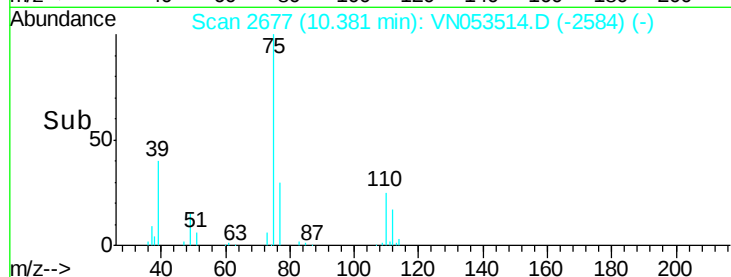
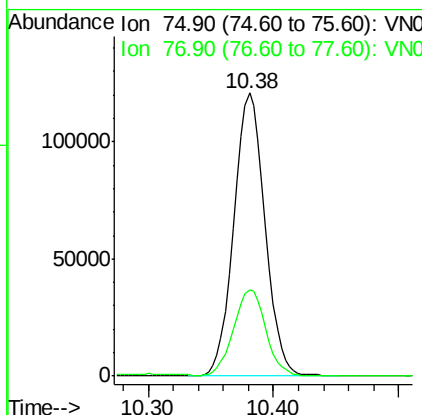
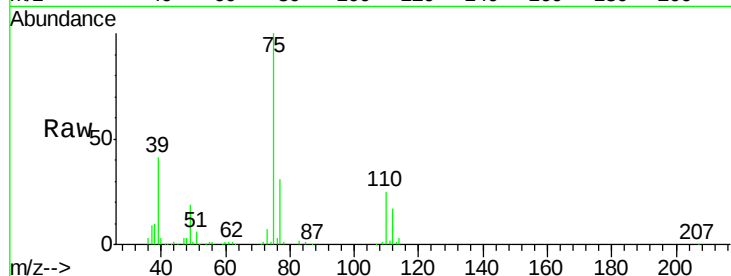
#53
t-1,3-Dichloropropene
Concen: 20.553 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. 0.00 min
Lab File: VN053514.D
Acq: 22 Jan 2019 12:56

Instrument :
MSVOA_N
ClientSampled :
VN0122WBS01

Tot Ion	Ratio	Lower	Upper
75	100		
77	30.5	25.5	38.3

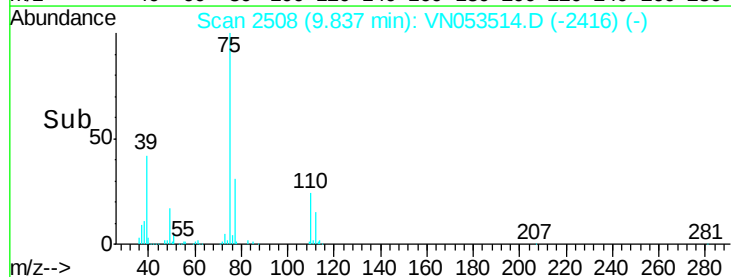
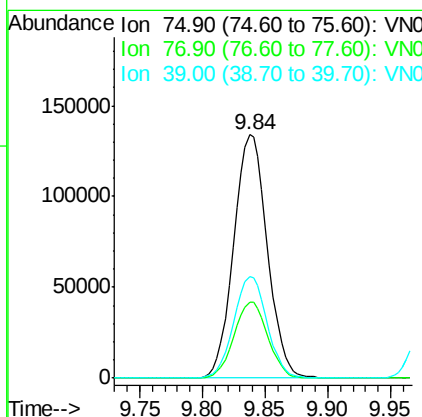
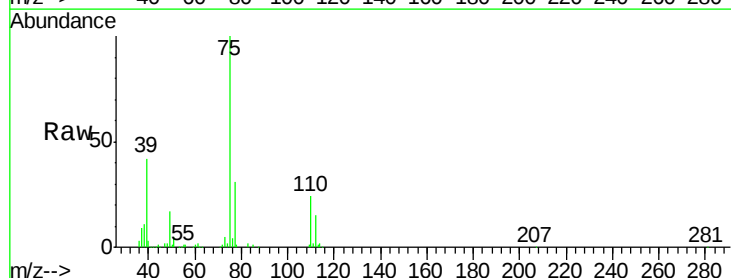
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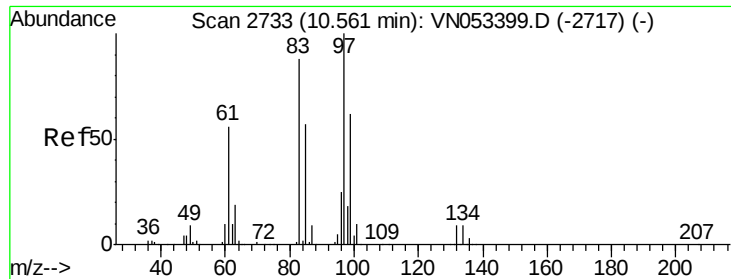
MMDadoda
1/23/2019 11:00:45 AM



#54
cis-1,3-Dichloropropene
Concen: 20.970 ug/l
RT: 9.84 min Scan# 2508
Delta R.T. -0.00 min
Lab File: VN053514.D
Acq: 22 Jan 2019 12:56

Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.3	25.8	38.6
39	41.9	33.4	50.0





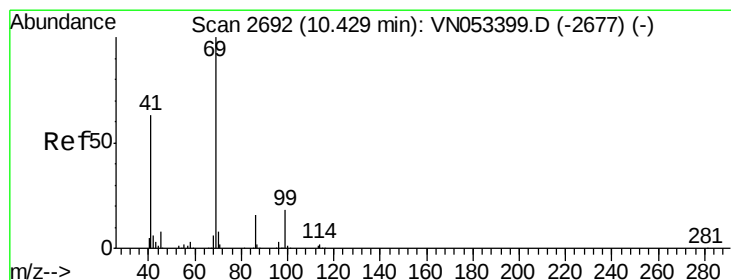
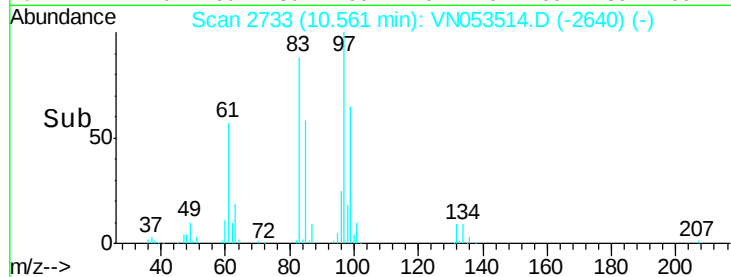
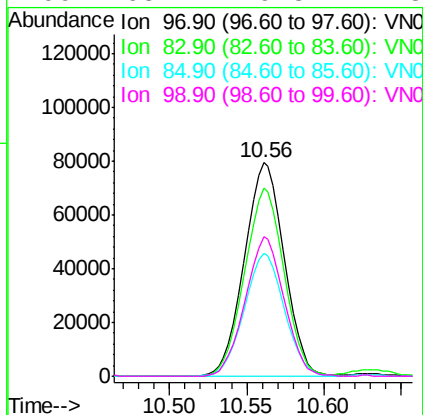
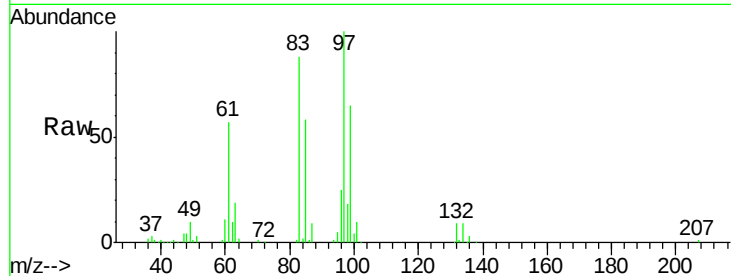
#55
1,1,2-Trichloroethane
Concen: 21.354 ug/l
RT: 10.56 min Scan# 2733
Delta R.T. 0.00 min
Lab File: VN053514.D
Acq: 22 Jan 2019 12:56

Instrument :
MSVOA_N
ClientSampleId :
VN0122WBS01

Tot Ion	Ratio	Lower	Upper
97	100		
83	88.1	70.1	105.1
85	57.6	45.4	68.0
99	65.1	49.8	74.8

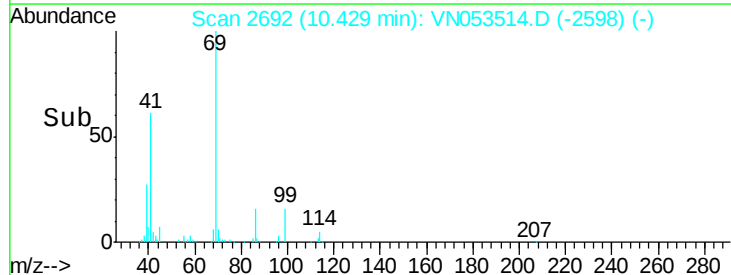
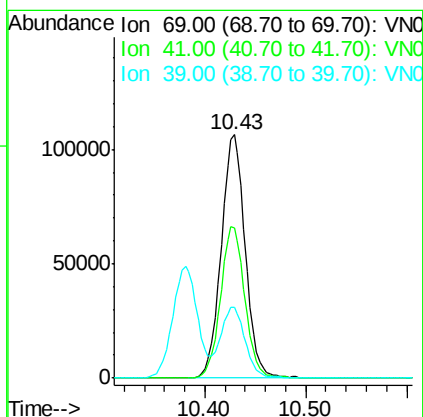
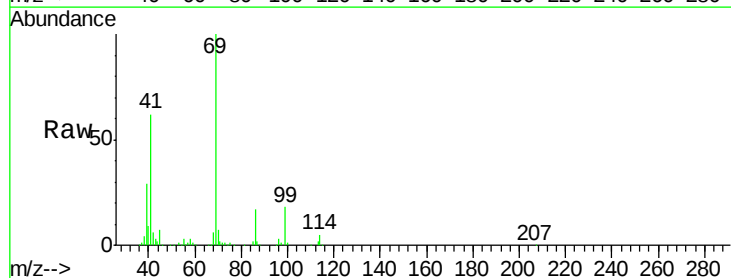
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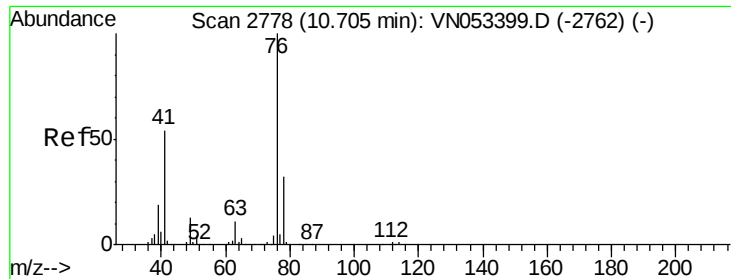
MMDadoda
1/23/2019 11:00:45 AM



#56
Ethyl methacrylate
Concen: 19.912 ug/l
RT: 10.43 min Scan# 2692
Delta R.T. 0.00 min
Lab File: VN053514.D
Acq: 22 Jan 2019 12:56

Tgt Ion	Ratio	Lower	Upper
69	100		
41	62.1	49.4	74.0
39	28.9	23.3	34.9





#57

1,3-Dichloropropane

Concen: 21.107 ug/l

RT: 10.71 min Scan# 2778

Delta R.T. 0.00 min

Lab File: VN053514.D

Acq: 22 Jan 2019 12:56

Instrument :

MSVOA_N

ClientSampleId :

VN0122WBS01

Tot Ion: 76 Resp: 244340

Ion Ratio Lower Upper

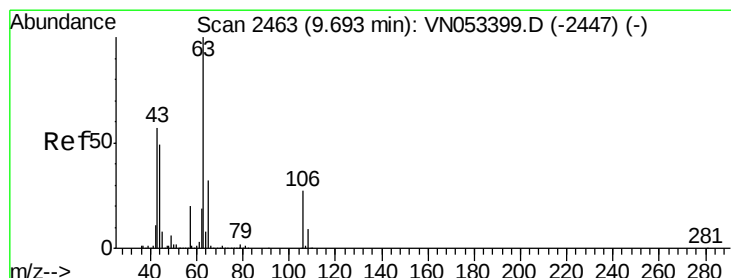
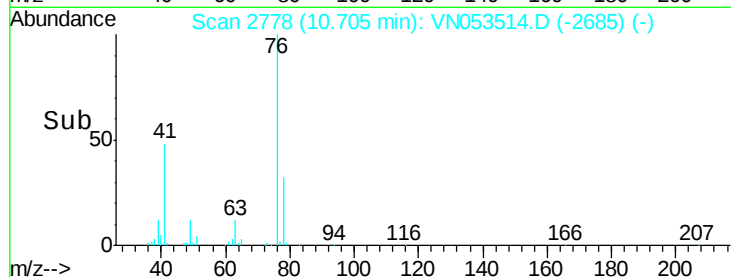
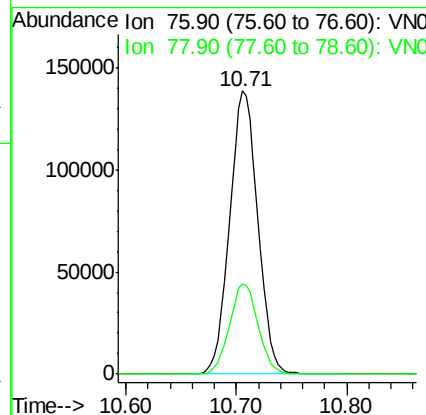
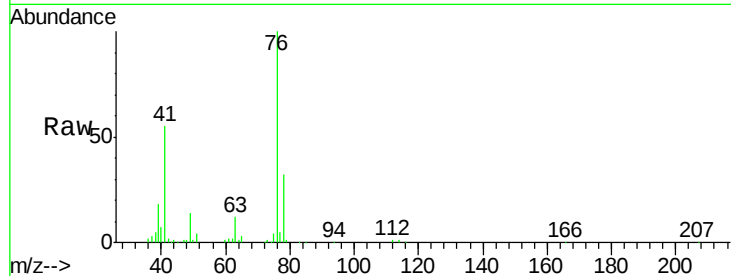
76 100

78 32.3 25.6 38.4

Manual Integrations
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1/23/2019 11:00:45 AM



#58

2-Chloroethyl Vinyl ether

Concen: 95.483 ug/l

RT: 9.69 min Scan# 2463

Delta R.T. 0.00 min

Lab File: VN053514.D

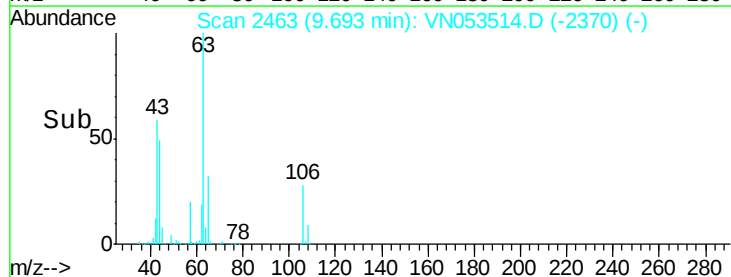
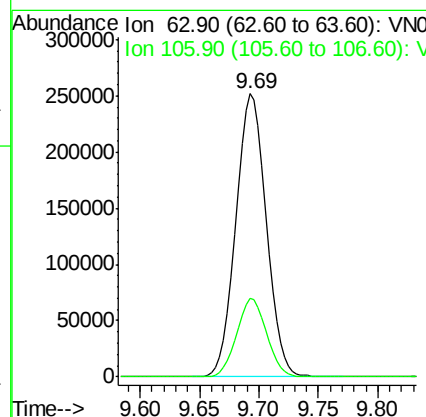
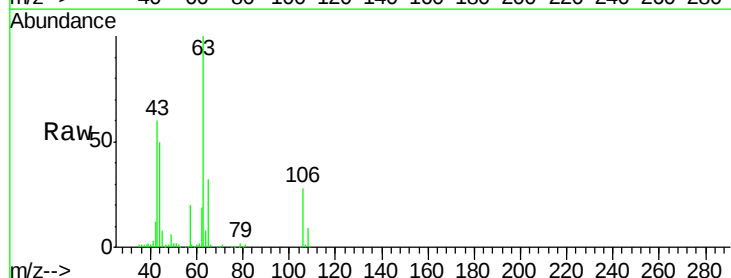
Acq: 22 Jan 2019 12:56

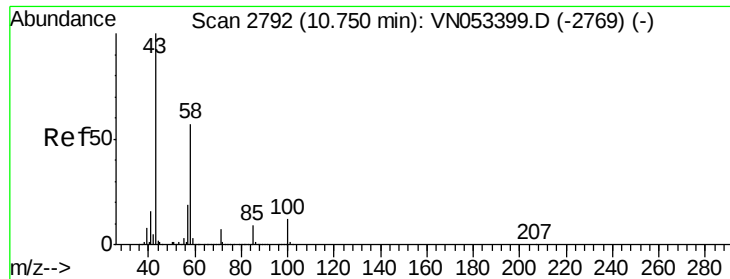
Tgt Ion: 63 Resp: 447012

Ion Ratio Lower Upper

63 100

106 27.2 21.5 32.3





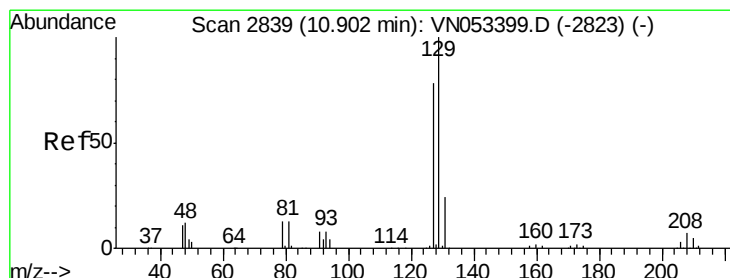
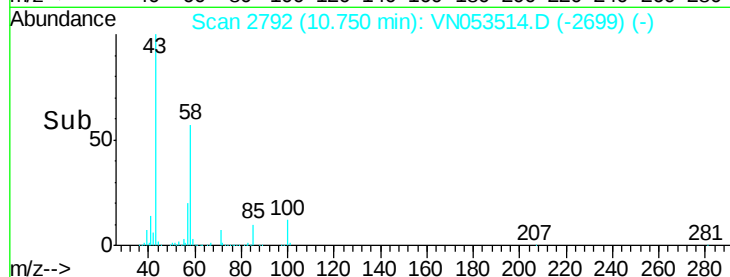
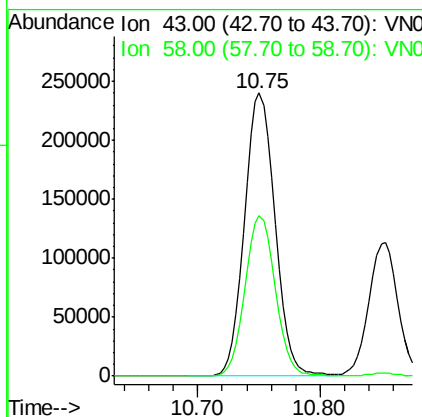
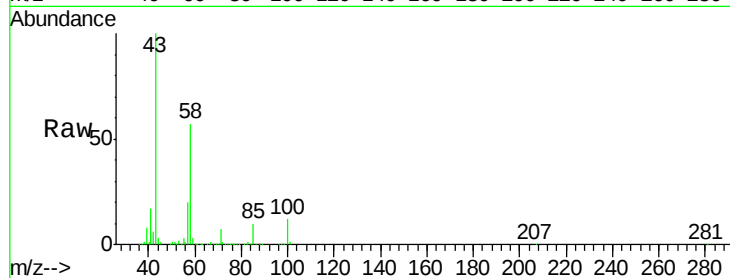
#59
2-Hexanone
Concen: 100.859 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN053514.D
Acq: 22 Jan 2019 12:56

Instrument :
MSVOA_N
ClientSampled :
VN0122WBS01

Tot Ion: 43 Resp: 411382
Ion Ratio Lower Upper
43 100
58 56.4 28.6 85.8

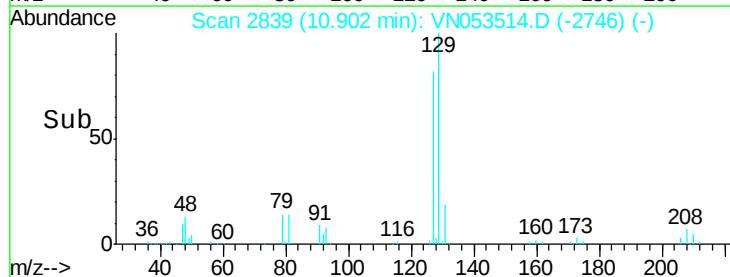
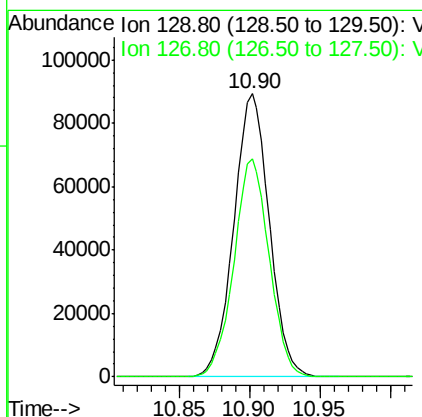
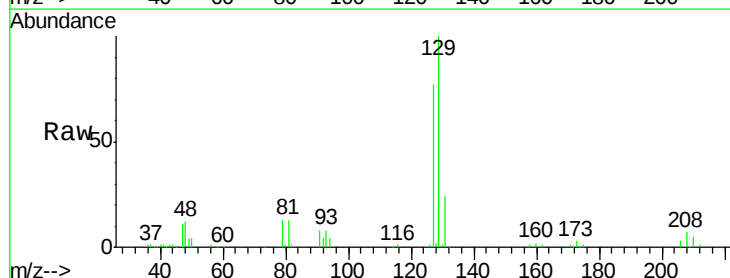
Manual Integrations
APPROVED

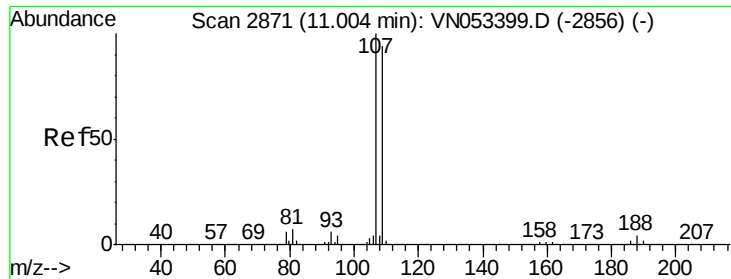
MMDadoda
1/23/2019 11:00:45 AM



#60
Dibromochloromethane
Concen: 20.750 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN053514.D
Acq: 22 Jan 2019 12:56

Tgt Ion: 129 Resp: 157491
Ion Ratio Lower Upper
129 100
127 76.6 38.6 115.8





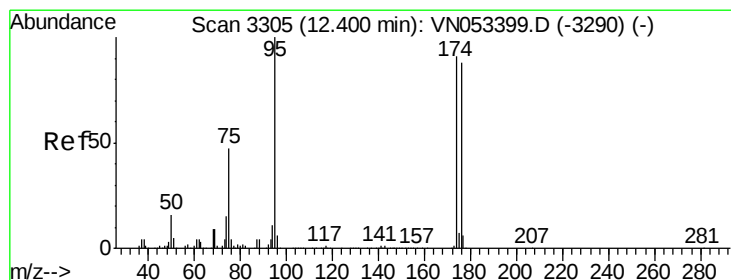
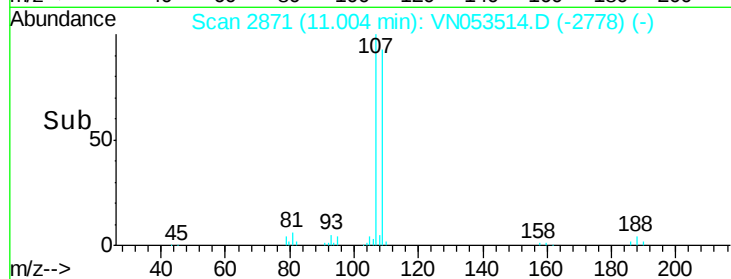
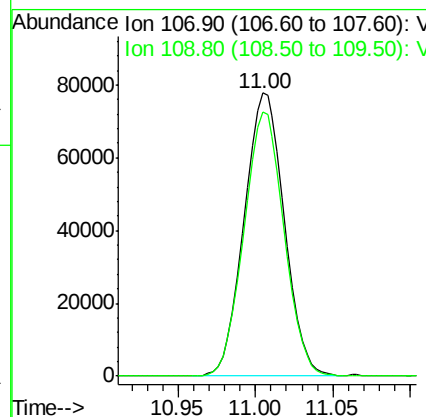
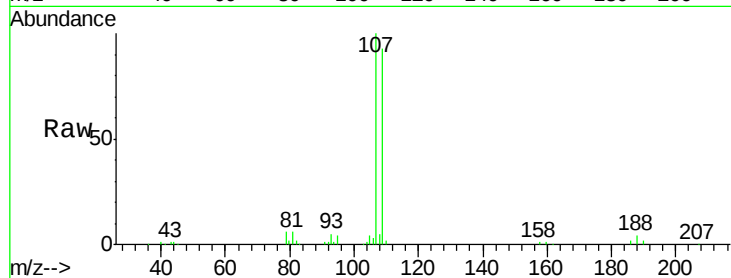
#61
 1,2-Dibromoethane
 Concen: 20.742 ug/l
 RT: 11.00 min Scan# 2871
 Delta R.T. 0.00 min
 Lab File: VN053514.D
 Acq: 22 Jan 2019 12:56

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0122WBS01

Tot Ion	Ratio	Lower	Upper
107	100		
109	93.4	75.7	113.5

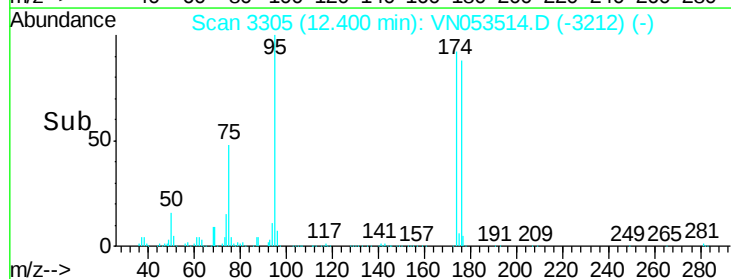
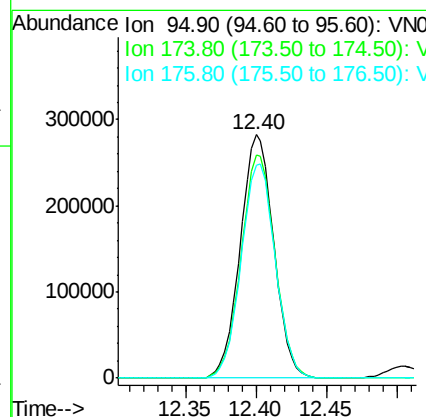
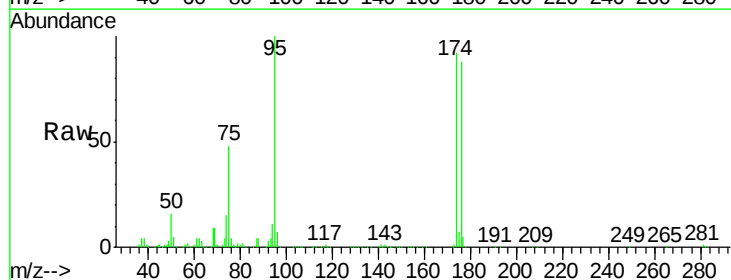
Manual Integrations
 APPROVED

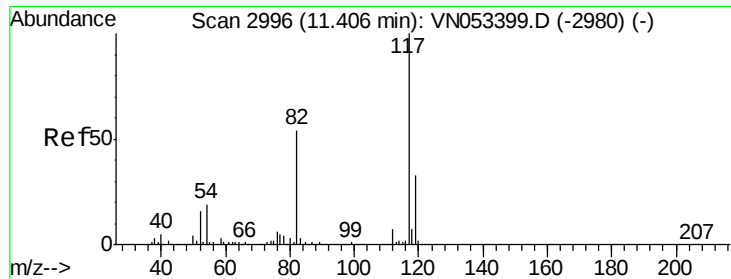
MMDadoda
 1/23/2019 11:00:45 AM



#62
 4-Bromofluorobenzene
 Concen: 20.742 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.00 min
 Lab File: VN053514.D
 Acq: 22 Jan 2019 12:56

Tgt Ion	Ratio	Lower	Upper
95	100		
174	92.7	0.0	183.2
176	89.7	0.0	177.4





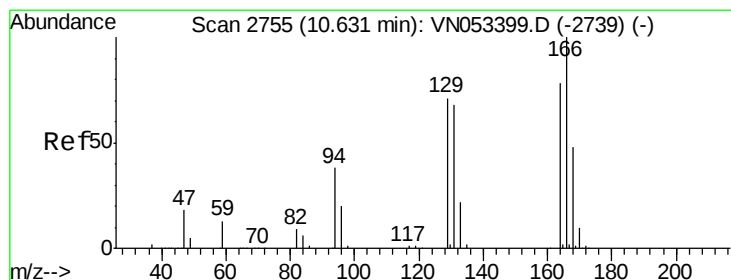
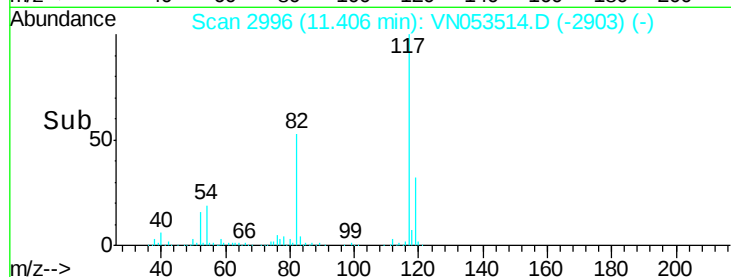
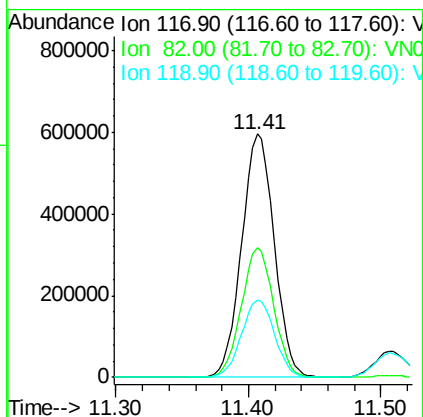
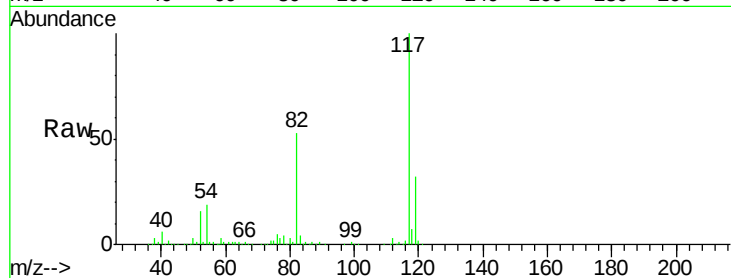
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN053514.D
Acq: 22 Jan 2019 12:56

Instrument :
MSVOA_N
ClientSampleId :
VN0122WBS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.4	42.9	64.3
119	31.7	26.0	39.0

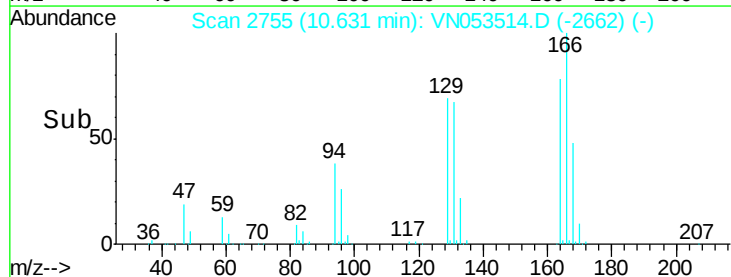
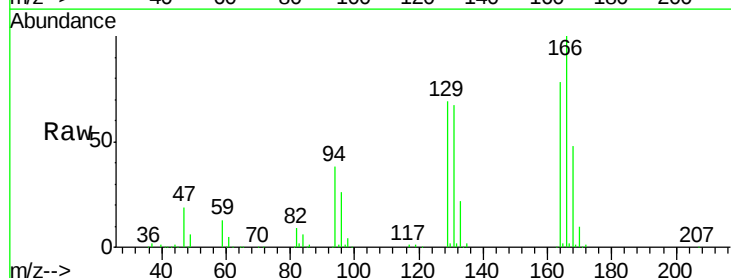
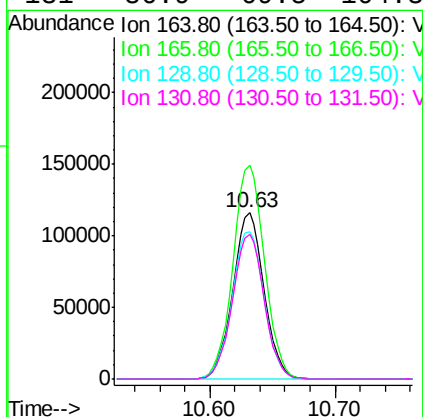
Manual Integrations
APPROVED

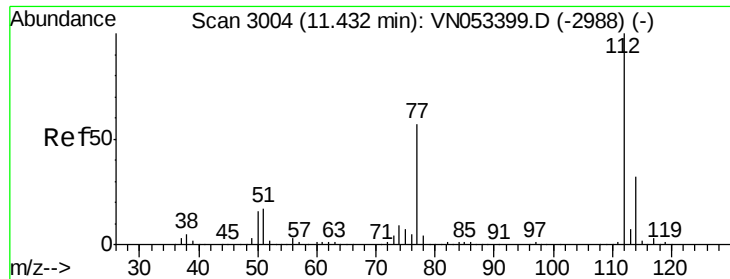
MMDadoda
1/23/2019 11:00:45 AM



#64
Tetrachloroethene
Concen: 20.832 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN053514.D
Acq: 22 Jan 2019 12:56

Tgt Ion	Ratio	Lower	Upper
164	100		
166	128.8	102.2	153.4
129	88.9	72.6	109.0
131	86.9	69.5	104.3





#65

Chlorobenzene

Concen: 20.590 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. 0.00 min

Lab File: VN053514.D

Acq: 22 Jan 2019 12:56

Instrument :

MSVOA_N

ClientSampled :

VN0122WBS01

Tot Ion:112 Resp: 443783

Ion Ratio Lower Upper

112 100

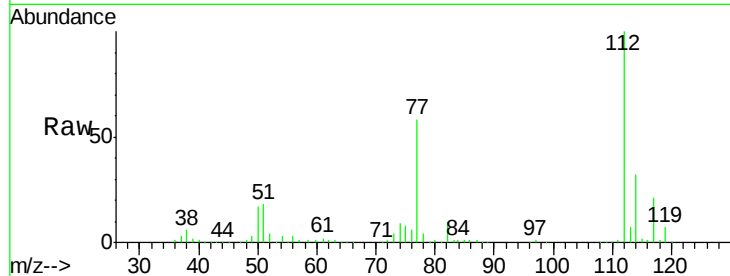
114 31.7 25.3 37.9

Manual Integrations

APPROVED

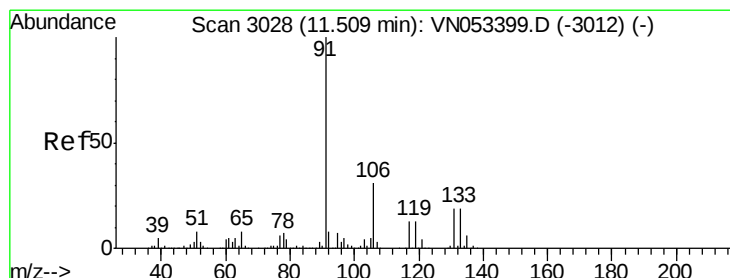
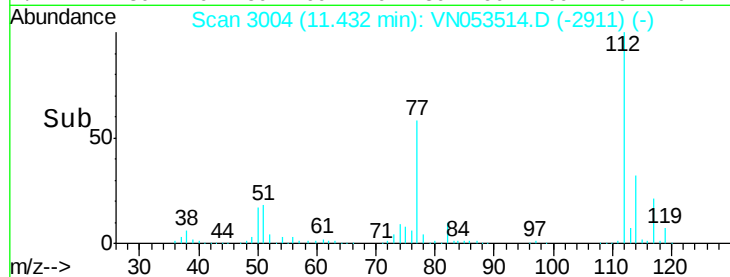
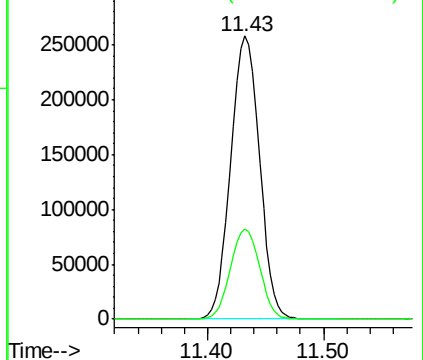
MMDadoda

1/23/2019 11:00:45 AM



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 21.260 ug/l

RT: 11.51 min Scan# 3027

Delta R.T. -0.00 min

Lab File: VN053514.D

Acq: 22 Jan 2019 12:56

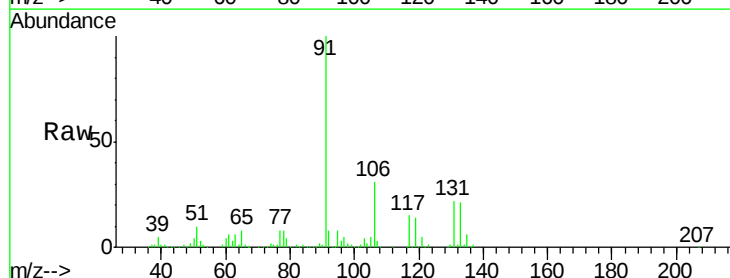
Tgt Ion:131 Resp: 159409

Ion Ratio Lower Upper

131 100

133 95.2 48.0 144.0

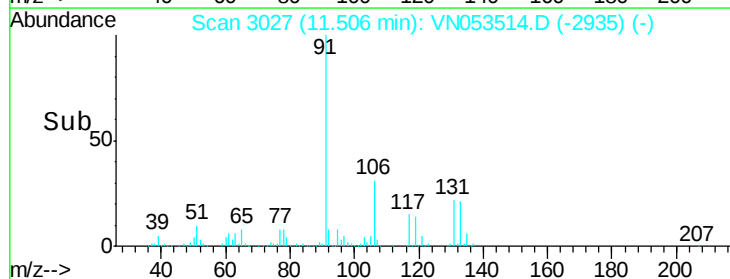
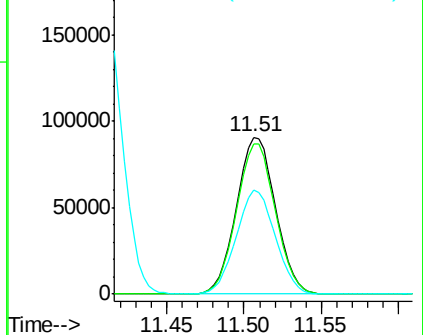
119 66.2 33.5 100.5

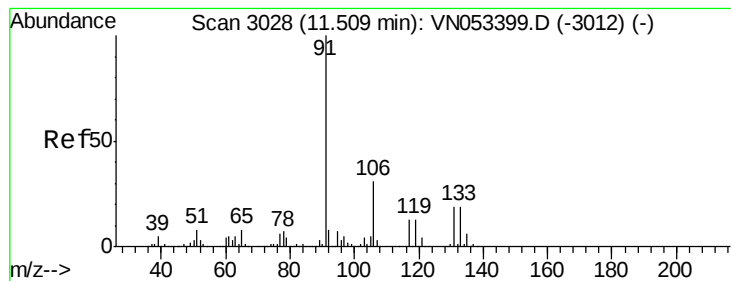


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





#67

Ethyl Benzene

Concen: 20.552 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN053514.D

Acq: 22 Jan 2019 12:56

Instrument :

MSVOA_N

ClientSampled :

VN0122WBS01

Tot Ion: 91 Resp: 754915

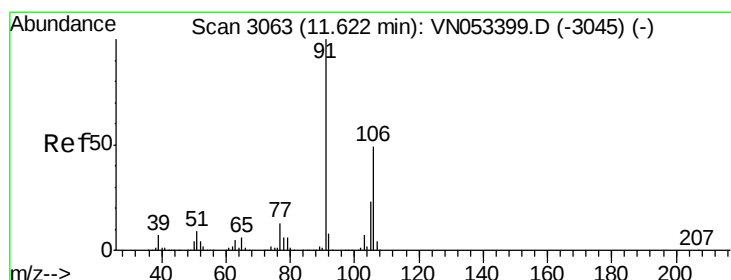
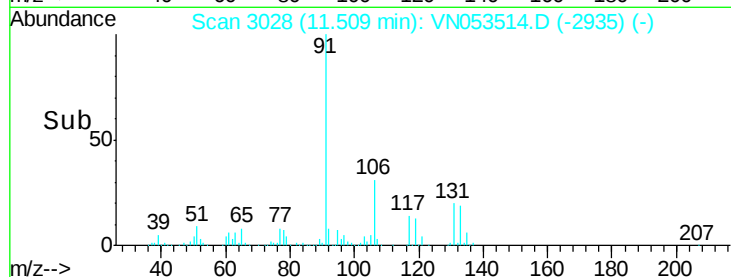
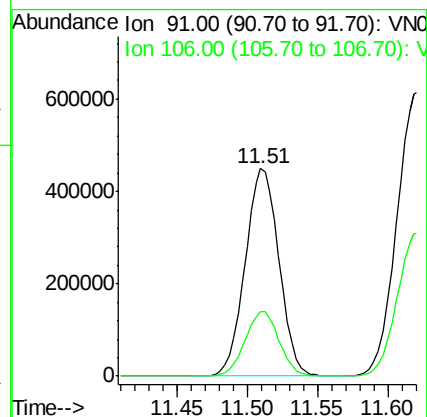
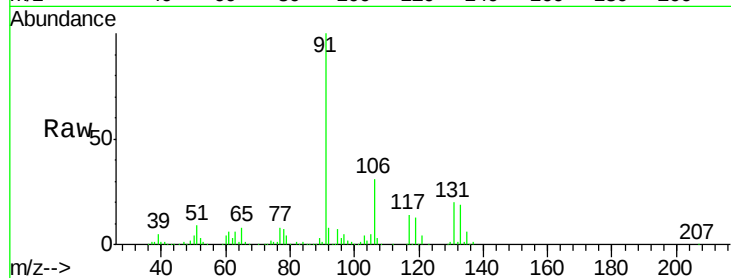
Ion Ratio Lower Upper

91 100

106 31.0 25.0 37.6

Manual Integrations
APPROVED

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1/23/2019 11:00:45 AM



#68

m/p-Xylenes

Concen: 42.142 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. 0.00 min

Lab File: VN053514.D

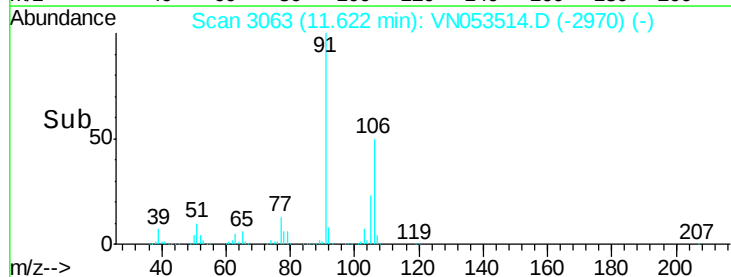
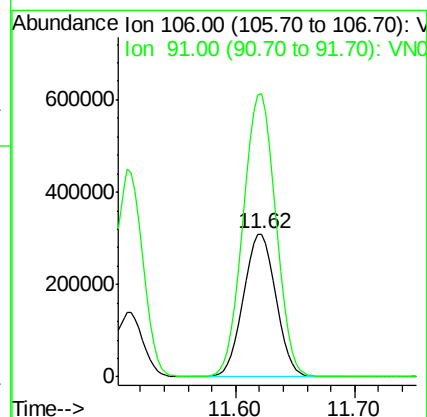
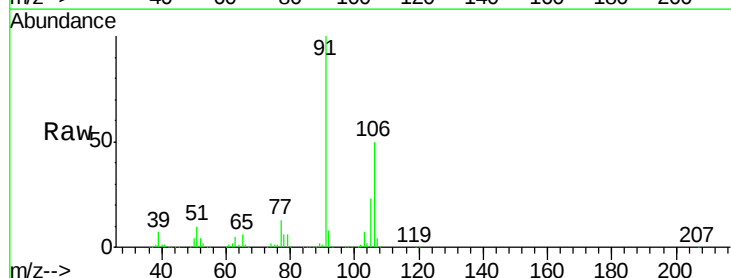
Acq: 22 Jan 2019 12:56

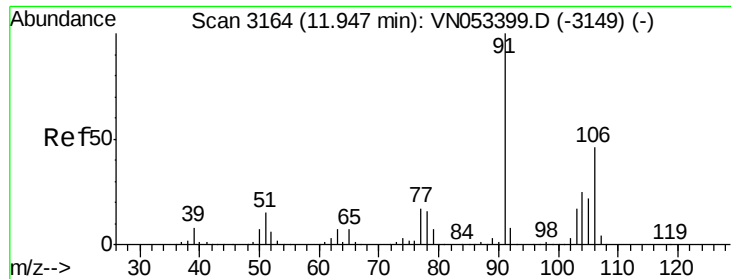
Tgt Ion: 106 Resp: 584449

Ion Ratio Lower Upper

106 100

91 199.9 161.4 242.2





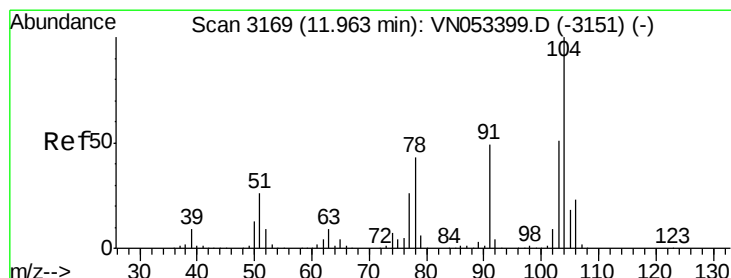
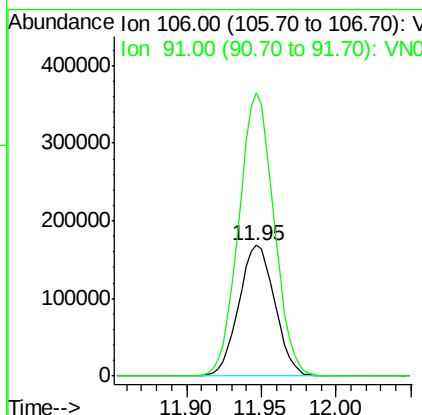
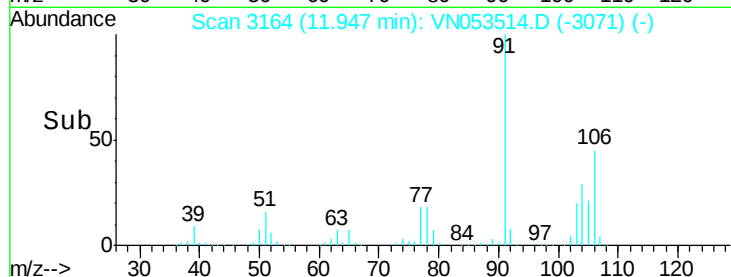
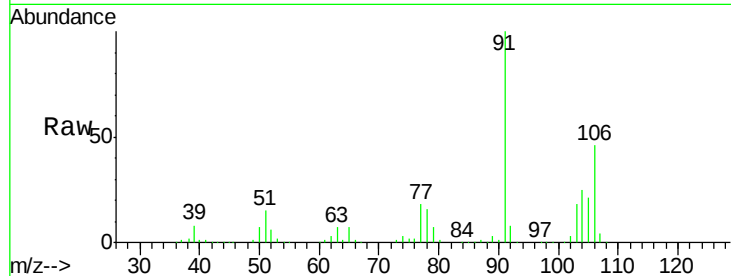
#69
o-Xylene
Concen: 20.895 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN053514.D
Acq: 22 Jan 2019 12:56

Instrument :
MSVOA_N
ClientSampleId :
VN0122WBS01

Tot Ion	Ion	Ratio	Lower	Upper
281587	106	100		
	91	212.3	106.9	320.8

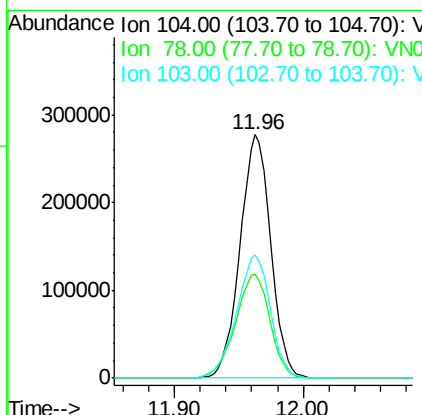
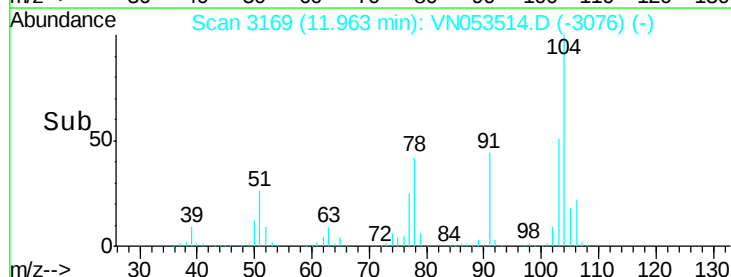
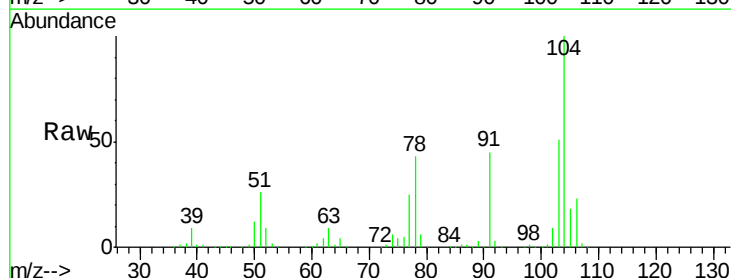
Manual Integrations
APPROVED

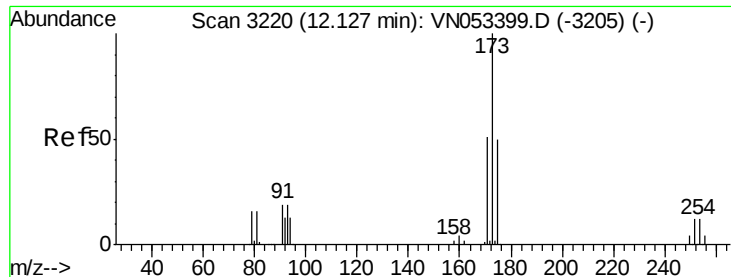
MMDadoda
1/23/2019 11:00:45 AM



#70
Styrene
Concen: 21.048 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN053514.D
Acq: 22 Jan 2019 12:56

Tgt Ion	Ion	Ratio	Lower	Upper
460343	104	100		
	78	47.7	38.2	57.2
	103	55.5	44.4	66.6





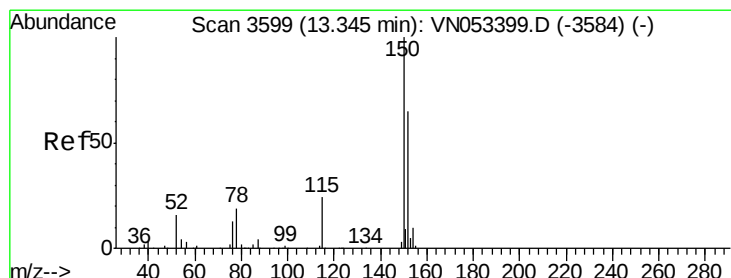
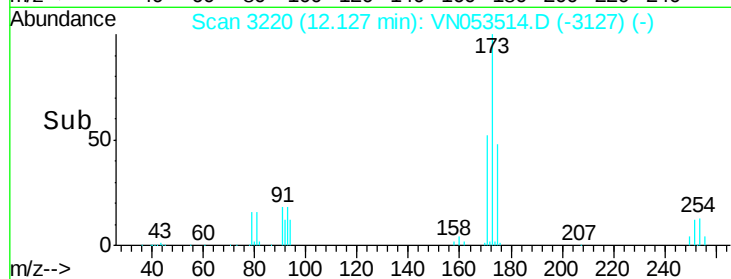
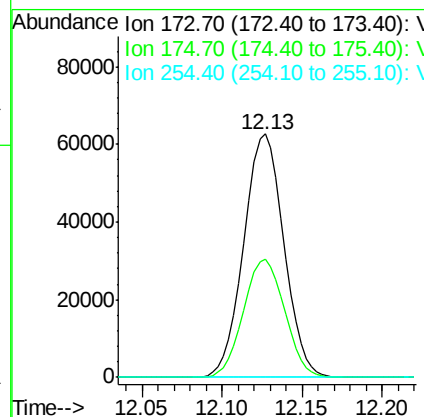
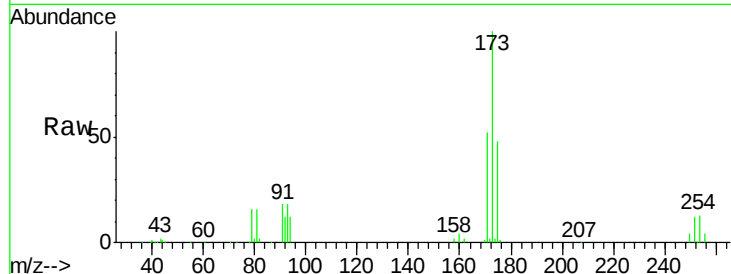
#71
Bromoform
Concen: 20.807 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN053514.D
Acq: 22 Jan 2019 12:56

Instrument :
MSVOA_N
ClientSampleId :
VN0122WBS01

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.3	24.6	74.0
254	0.0	0.2	0.2

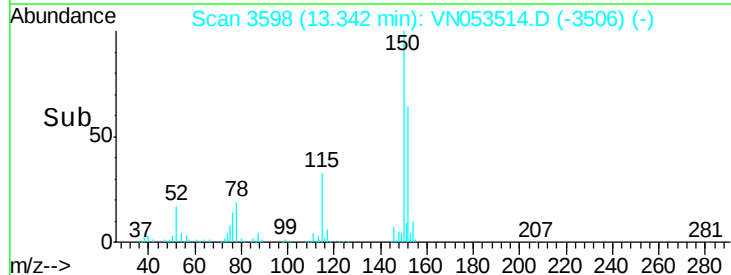
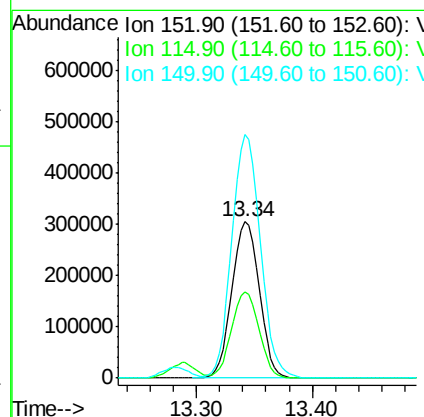
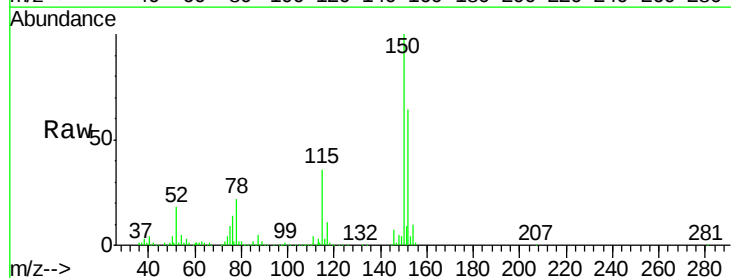
Manual Integrations
APPROVED

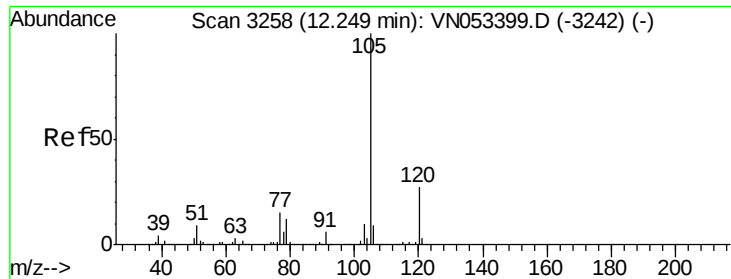
MMDadoda
1/23/2019 11:00:45 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN053514.D
Acq: 22 Jan 2019 12:56

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.1	27.8	83.4
150	162.5	0.0	349.0





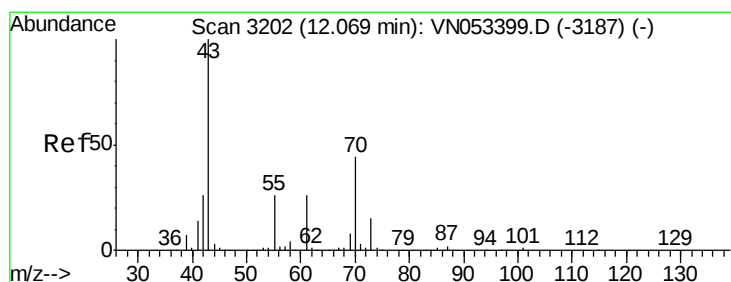
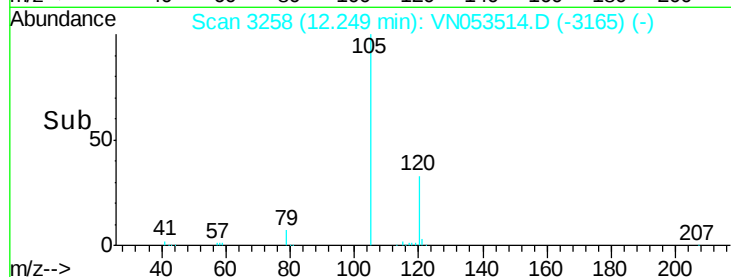
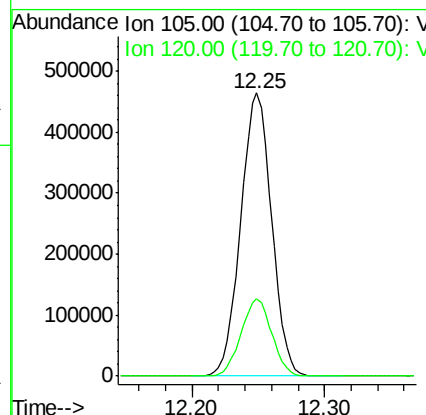
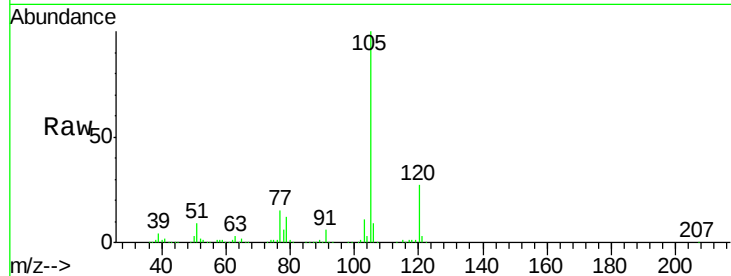
#73
Isopropylbenzene
Concen: 20.609 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. 0.00 min
Lab File: VN053514.D
Acq: 22 Jan 2019 12:56

Instrument :
MSVOA_N
ClientSampled :
VN0122WBS01

Tot Ion	Ratio	Lower	Upper
105	100		
120	27.2	13.6	40.7

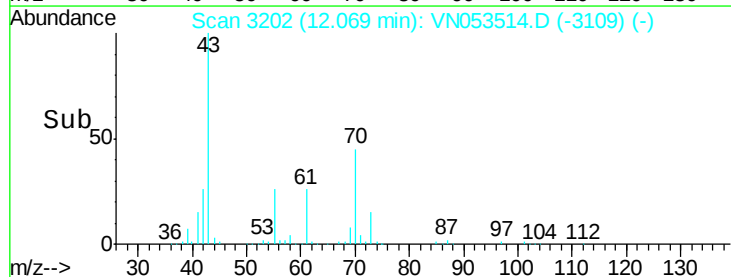
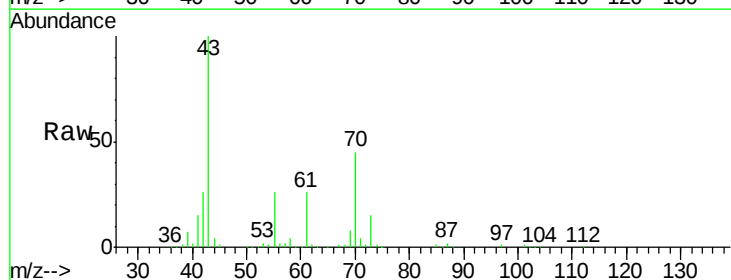
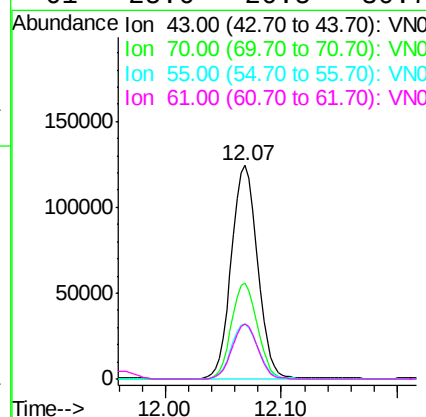
Manual Integrations
APPROVED

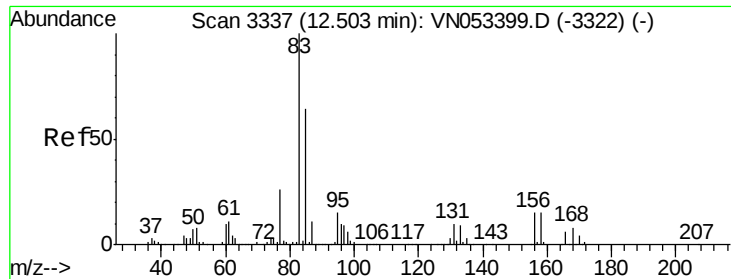
MMDadoda
1/23/2019 11:00:45 AM



#74
N-ethyl acetate
Concen: 20.046 ug/l
RT: 12.07 min Scan# 3202
Delta R.T. 0.00 min
Lab File: VN053514.D
Acq: 22 Jan 2019 12:56

Tgt Ion	Ratio	Lower	Upper
43	100		
70	44.7	35.4	53.2
55	26.6	20.9	31.3
61	25.6	20.5	30.7





#75

1,1,2,2-Tetrachloroethane

Concen: 19.953 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN053514.D

Acq: 22 Jan 2019 12:56

Instrument :

MSVOA_N

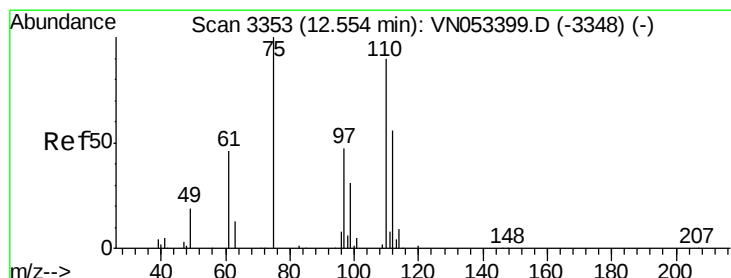
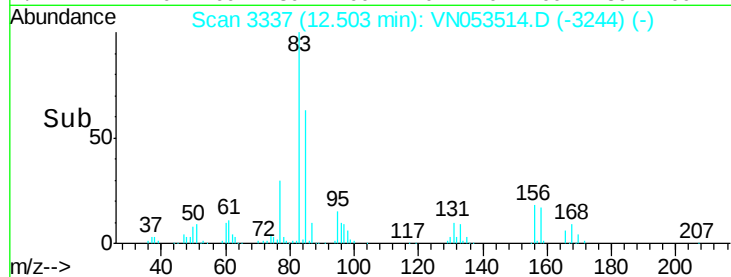
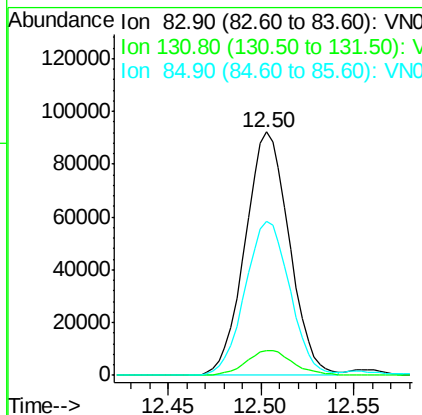
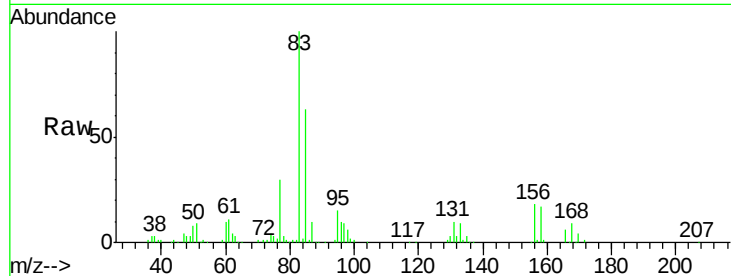
ClientSampled :

VN0122WBS01

Tot Ion:	83	Resp:	152311
Ion Ratio	Lower	Upper	
83	100		
131	10.7	5.3	15.8
85	64.4	32.1	96.3

Manual Integrations
APPROVED

MMDadoda
1/23/2019 11:00:45 AM



#76

1,2,3-Trichloropropane

Concen: 22.030 ug/l m

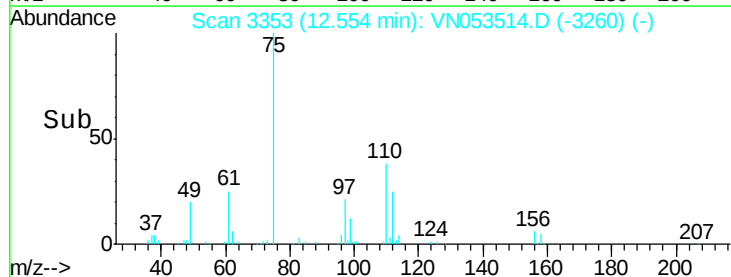
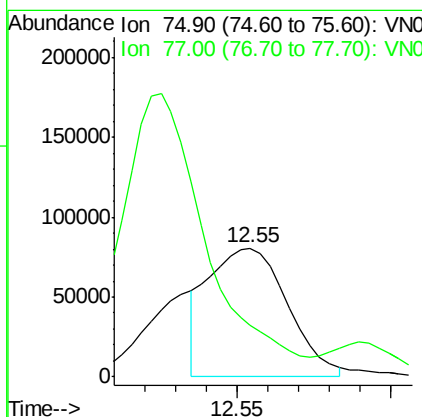
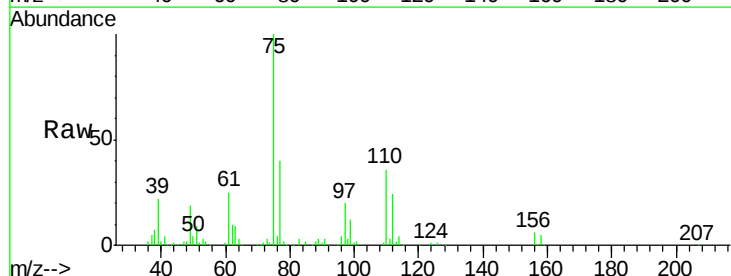
RT: 12.55 min Scan# 3353

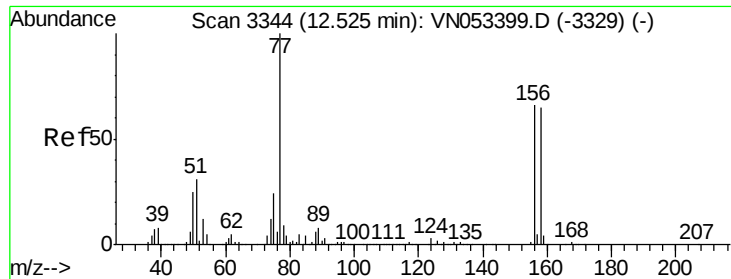
Delta R.T. 0.00 min

Lab File: VN053514.D

Acq: 22 Jan 2019 12:56

Tgt Ion:	75	Resp:	144291
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 20.452 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN053514.D

Acq: 22 Jan 2019 12:56

Instrument :

MSVOA_N

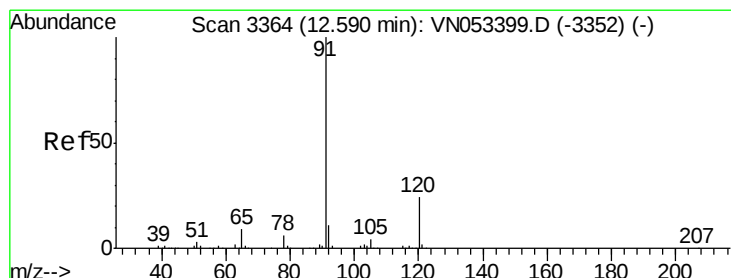
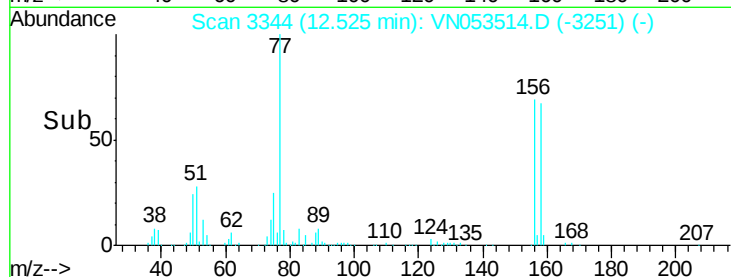
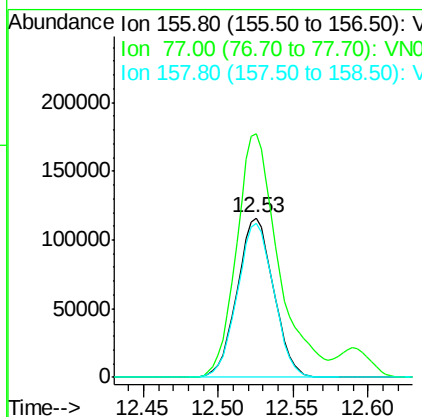
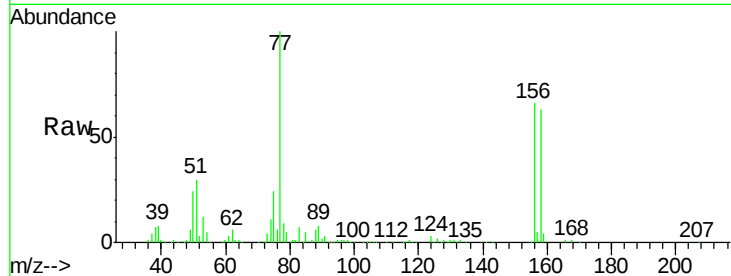
ClientSampleId :

VN0122WBS01

Tot Ion:	156	Resp:	196153
Ion Ratio	Lower	Upper	
156	100		
77	176.5	87.9	263.8
158	96.9	48.8	146.4

Manual Integrations
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1/23/2019 11:00:45 AM



#78

n-propylbenzene

Concen: 20.577 ug/l

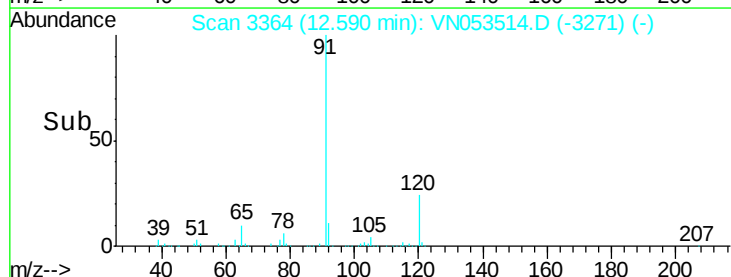
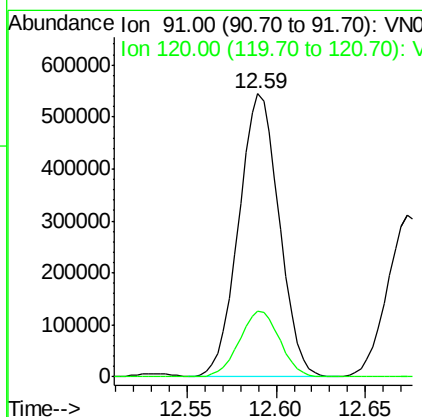
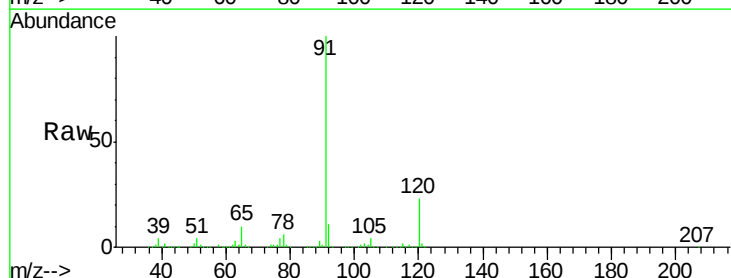
RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN053514.D

Acq: 22 Jan 2019 12:56

Tgt Ion:	91	Resp:	859713
Ion Ratio	Lower	Upper	
91	100		
120	23.5	11.9	35.5





#79

2-Chlorotoluene

Concen: 20.355 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN053514.D

Acq: 22 Jan 2019 12:56

Instrument :

MSVOA_N

ClientSampled :

VN0122WBS01

Tot Ion: 91 Resp: 504079

Ion Ratio Lower Upper

91 100

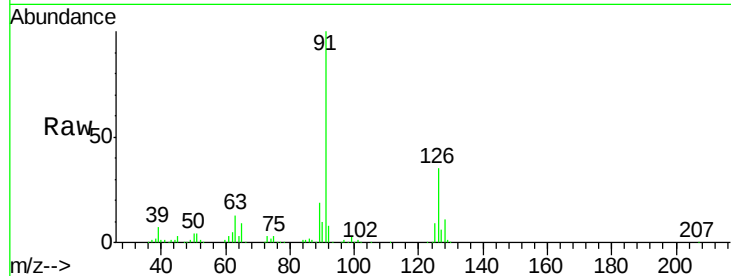
126 35.9 17.9 53.7

Manual Integrations

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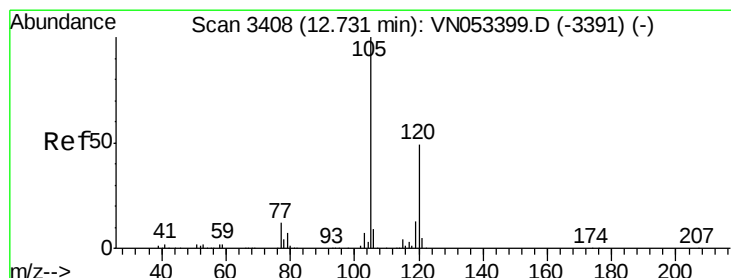
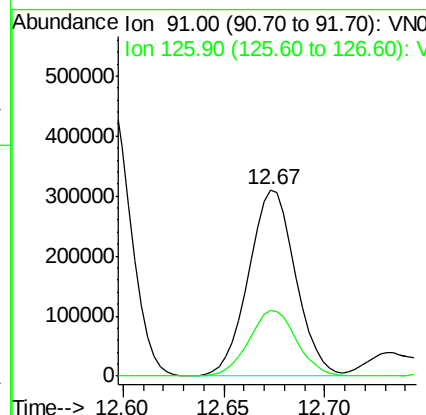
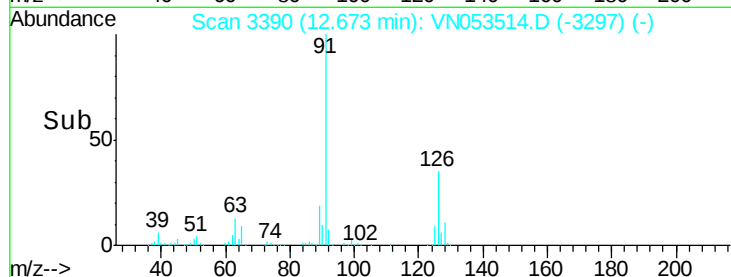
MMDadoda

1/23/2019 11:00:45 AM



Abundance Ion 91.00 (90.70 to 91.70): VN053399.D (-3378) (-)

Ion 125.90 (125.60 to 126.60): VN053399.D (-3378) (-)



#80

1,3,5-Trimethylbenzene

Concen: 21.088 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN053514.D

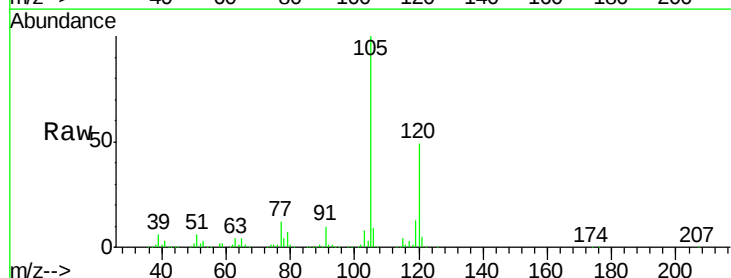
Acq: 22 Jan 2019 12:56

Tgt Ion: 105 Resp: 624493

Ion Ratio Lower Upper

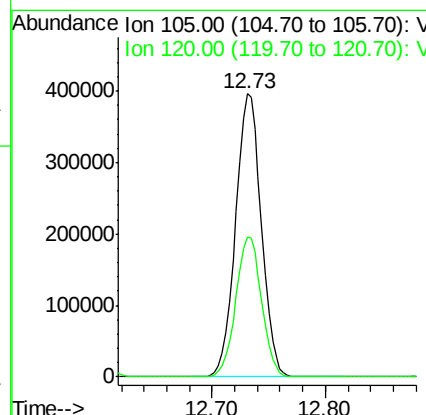
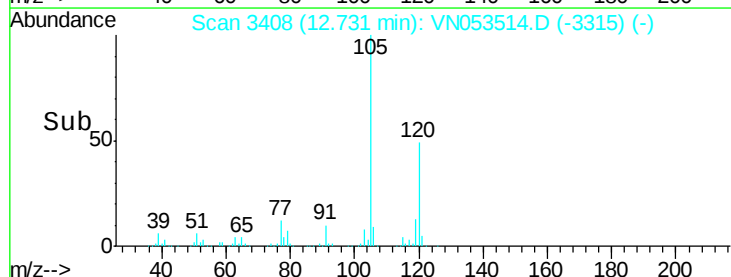
105 100

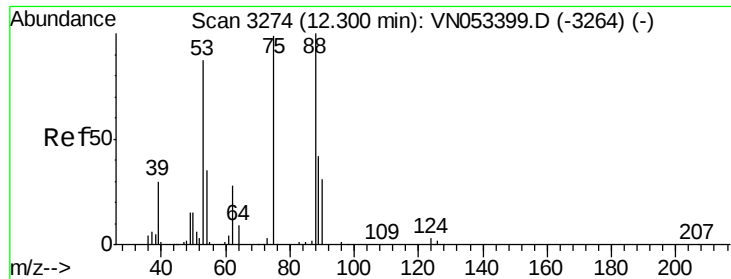
120 49.5 24.9 74.6



Abundance Ion 105.00 (104.70 to 105.70): VN053399.D (-3391) (-)

Ion 120.00 (119.70 to 120.70): VN053399.D (-3391) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 19.821 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN053514.D

Acq: 22 Jan 2019 12:56

Instrument :

MSVOA_N

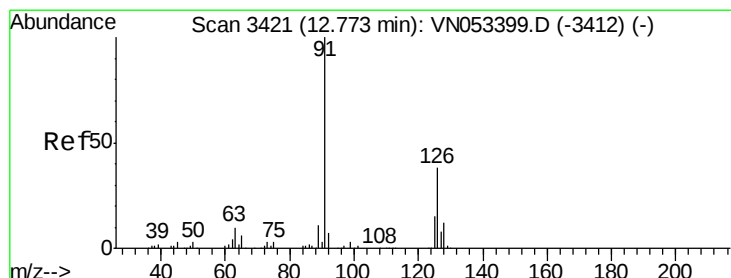
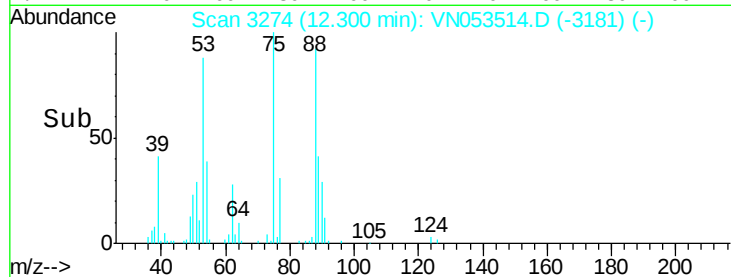
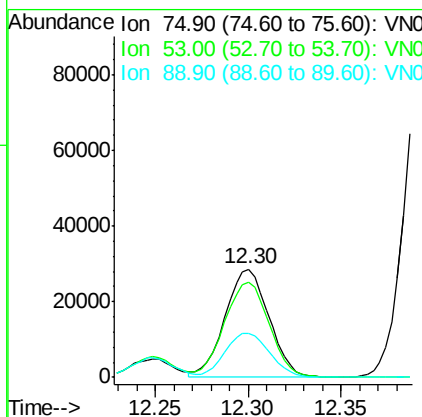
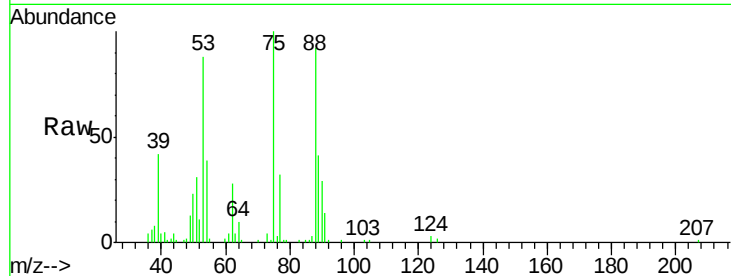
ClientSampled :

VN0122WBS01

Tot Ion:	75	Resp:	47129
Ion	Ratio	Lower	Upper
75	100		
53	90.5	69.8	104.6
89	41.4	35.6	53.4

Manual Integrations
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#82

4-Chlorotoluene

Concen: 20.460 ug/l

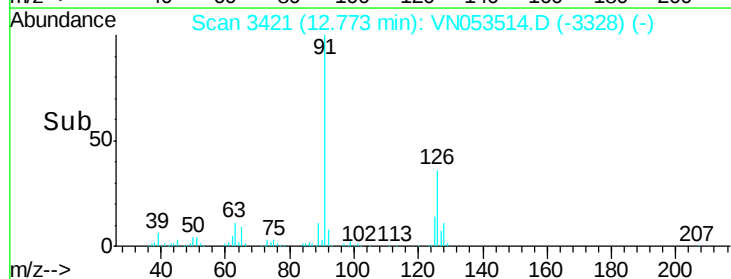
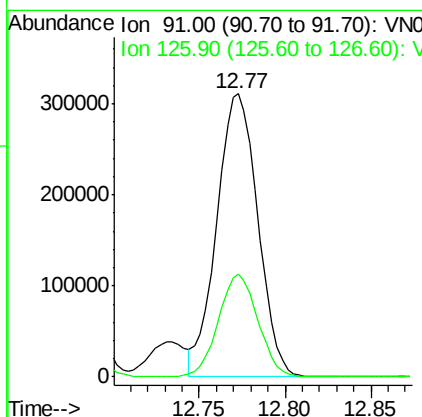
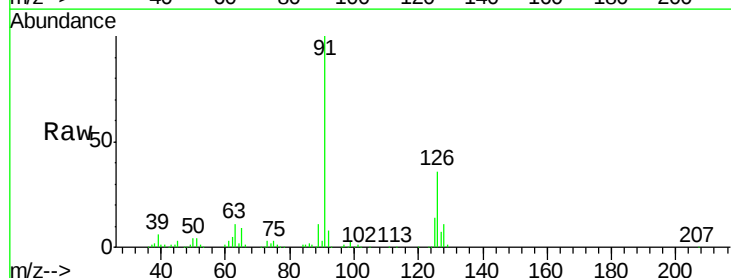
RT: 12.77 min Scan# 3421

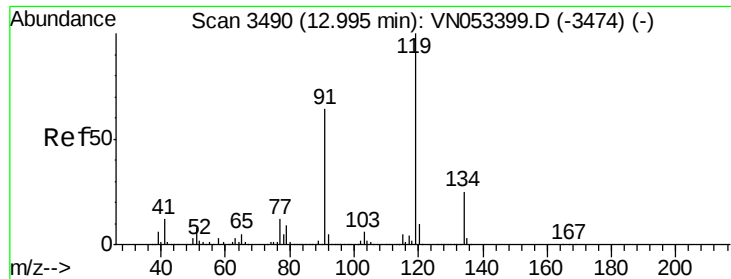
Delta R.T. 0.00 min

Lab File: VN053514.D

Acq: 22 Jan 2019 12:56

Tgt Ion:	91	Resp:	516702
Ion	Ratio	Lower	Upper
91	100		
126	35.1	17.6	52.9





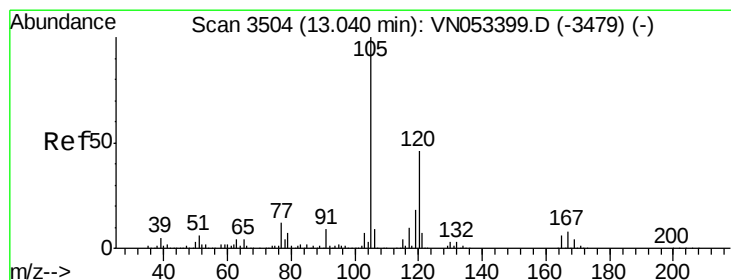
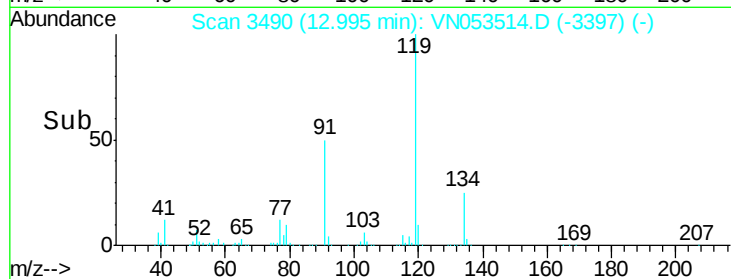
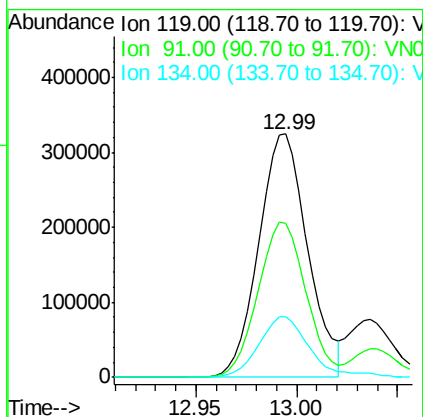
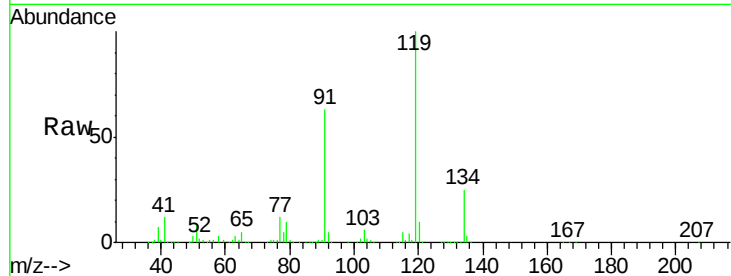
#83
tert-Butylbenzene
Concen: 20.978 ug/l
RT: 12.99 min Scan# 3490
Delta R.T. 0.00 min
Lab File: VN053514.D
Acq: 22 Jan 2019 12:56

Instrument :
MSVOA_N
ClientSampleId :
VN0122WBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	548706		
91	62.3		31.3	93.8
134	25.9		12.9	38.7

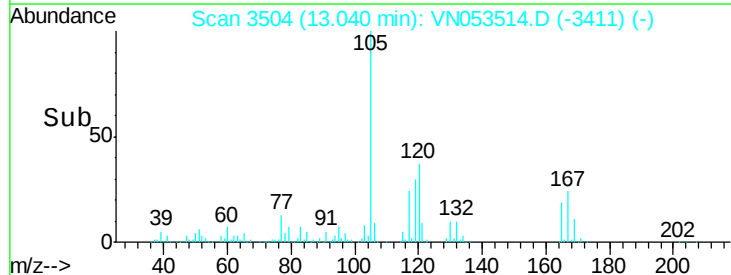
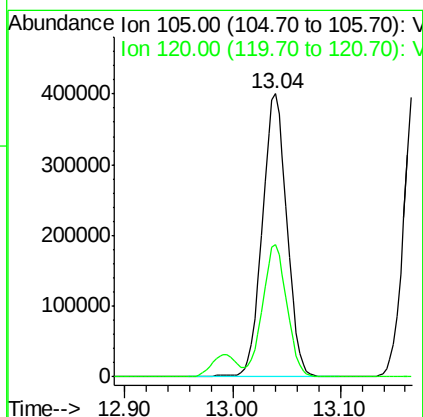
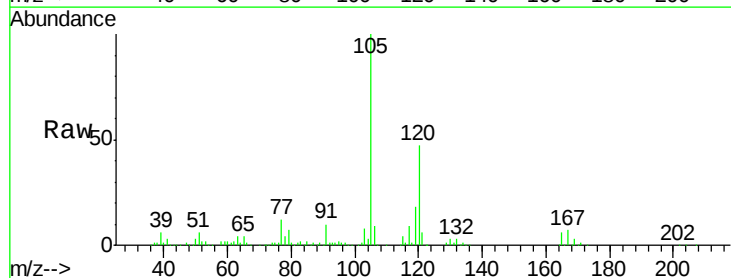
Manual Integrations
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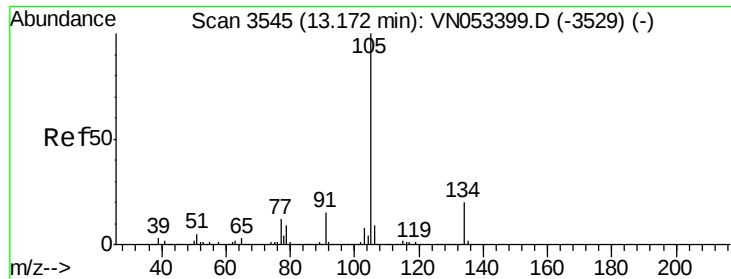
MMDadoda
1/23/2019 11:00:45 AM



#84
1,2,4-Trimethylbenzene
Concen: 21.088 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. 0.00 min
Lab File: VN053514.D
Acq: 22 Jan 2019 12:56

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	629689		
120	46.3		23.0	69.0





#85

sec-Butylbenzene

Concen: 20.903 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN053514.D

Acq: 22 Jan 2019 12:56

Instrument :

MSVOA_N

ClientSampleId :

VN0122WBS01

Tot Ion:105 Resp: 749808

Ion Ratio Lower Upper

105 100

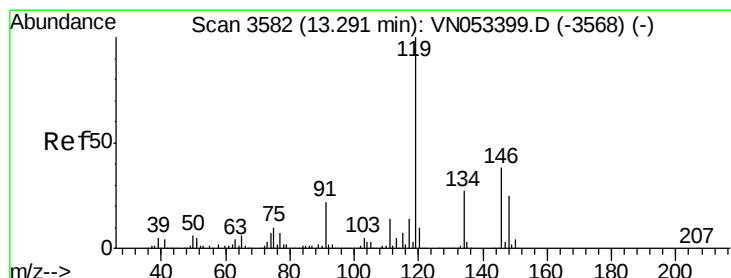
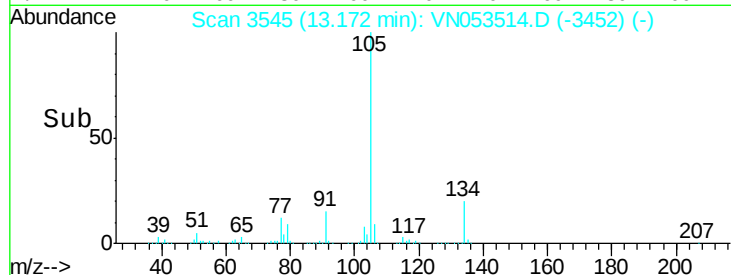
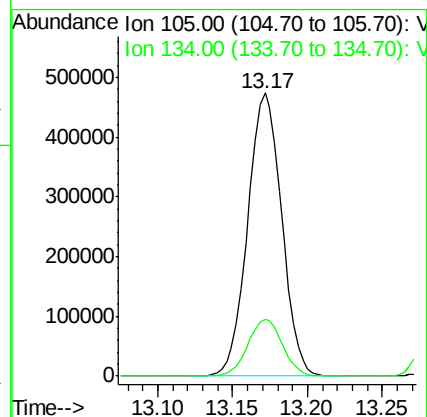
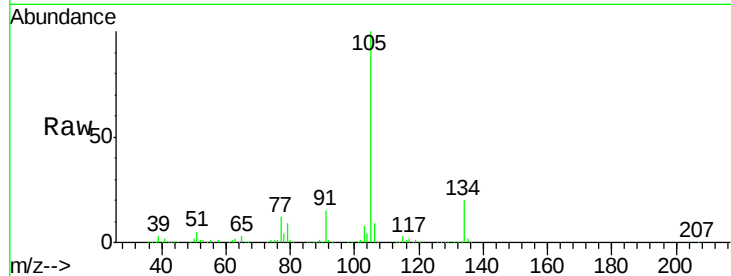
134 20.3 10.2 30.6

Manual Integrations

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#86

p-Isopropyltoluene

Concen: 20.983 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. -0.00 min

Lab File: VN053514.D

Acq: 22 Jan 2019 12:56

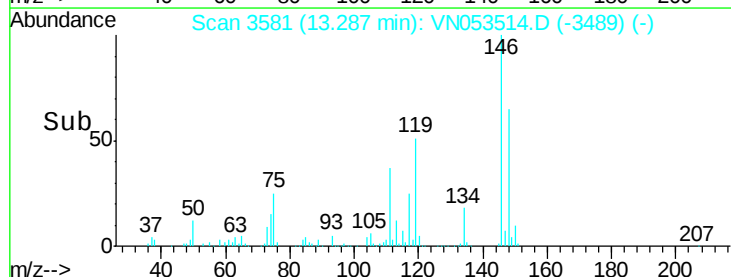
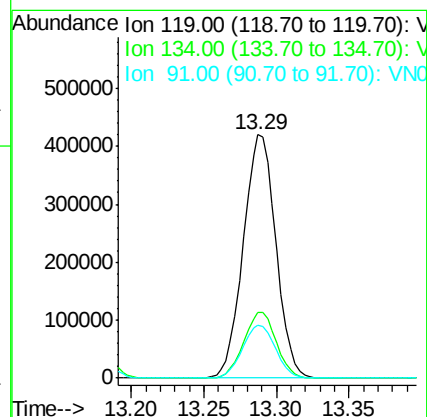
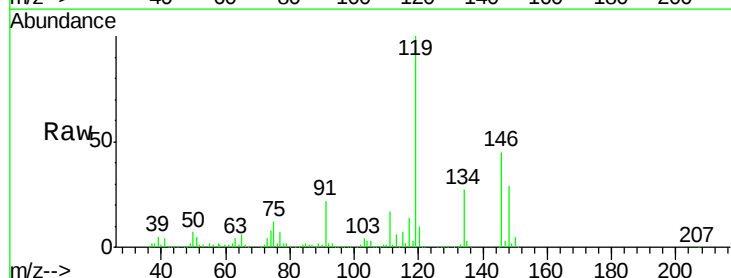
Tgt Ion:119 Resp: 653542

Ion Ratio Lower Upper

119 100

134 27.0 13.5 40.4

91 21.9 11.0 33.0





#87

1,3-Dichlorobenzene

Concen: 20.421 ug/l

RT: 13.28 min Scan# 3579

Delta R.T. -0.00 min

Lab File: VN053514.D

Acq: 22 Jan 2019 12:56

Instrument :

MSVOA_N

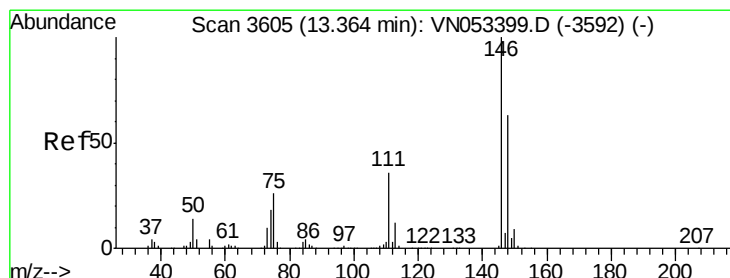
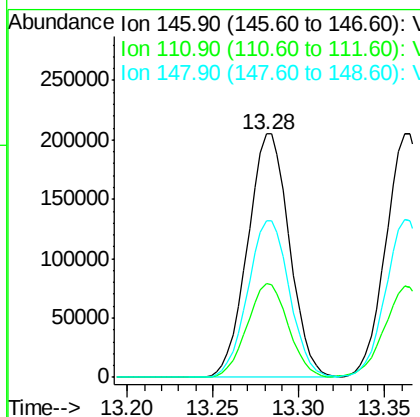
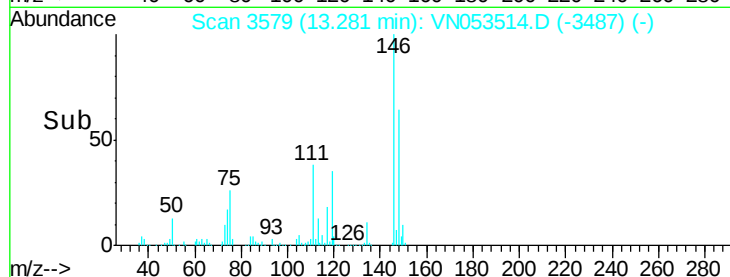
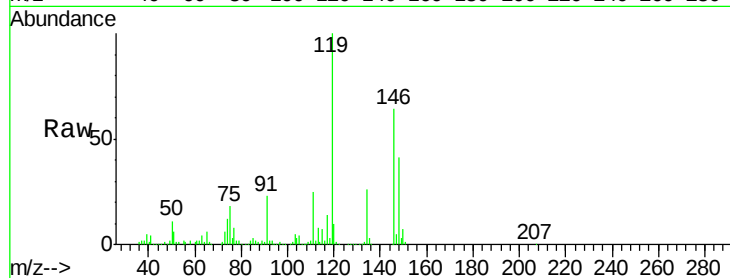
ClientSampleId :

VN0122WBS01

Tot Ion:	146	Resp:	344517
Ion Ratio	Lower	Upper	
146	100		
111	38.1	18.8	56.3
148	64.3	32.0	96.2

Manual Integrations
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#88

1,4-Dichlorobenzene

Concen: 20.220 ug/l

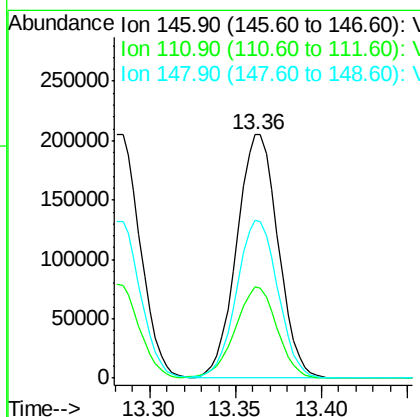
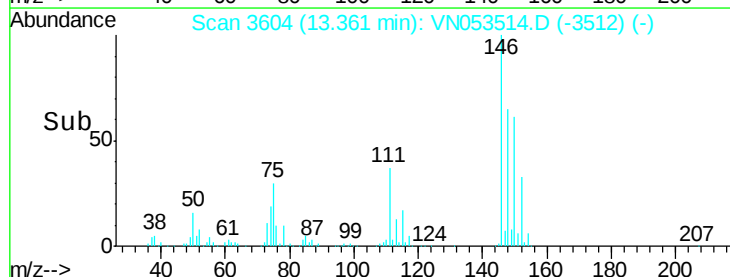
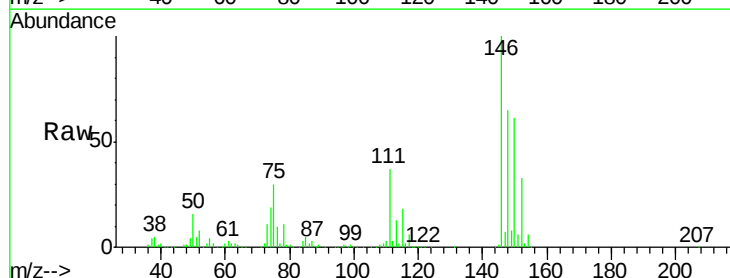
RT: 13.36 min Scan# 3604

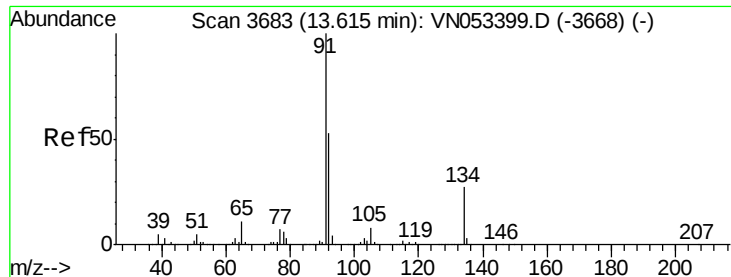
Delta R.T. -0.00 min

Lab File: VN053514.D

Acq: 22 Jan 2019 12:56

Tgt Ion:	146	Resp:	342182
Ion Ratio	Lower	Upper	
146	100		
111	38.1	18.6	55.8
148	65.0	32.4	97.0





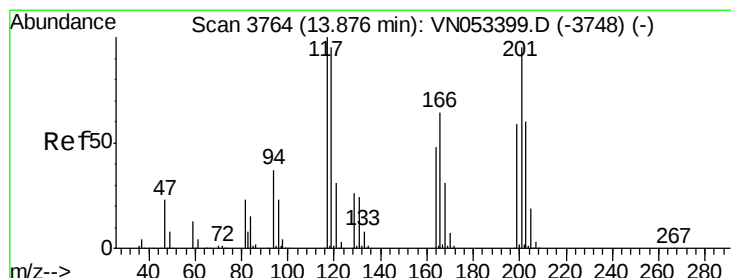
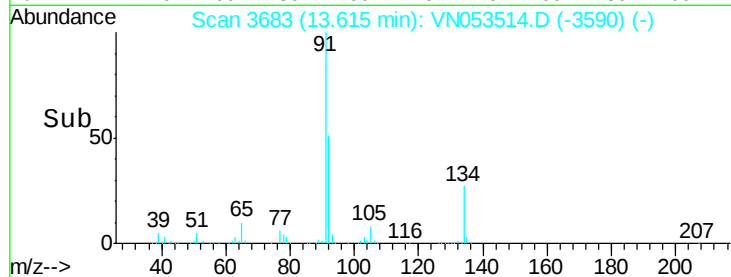
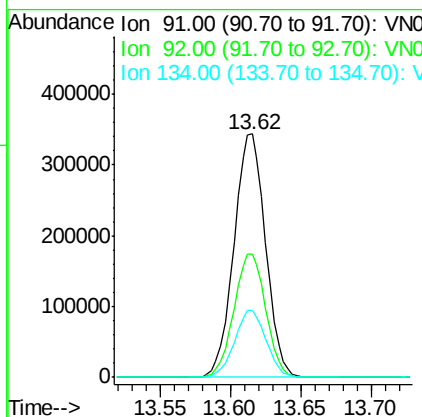
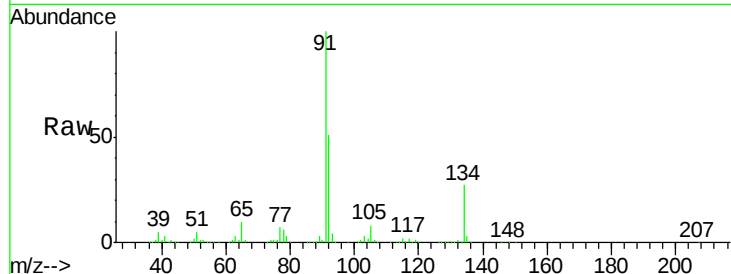
#89
n-Butylbenzene
Concen: 20.300 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN053514.D
Acq: 22 Jan 2019 12:56

Instrument :
MSVOA_N
ClientSampleId :
VN0122WBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.0	26.3	78.8
134	27.2	13.5	40.5

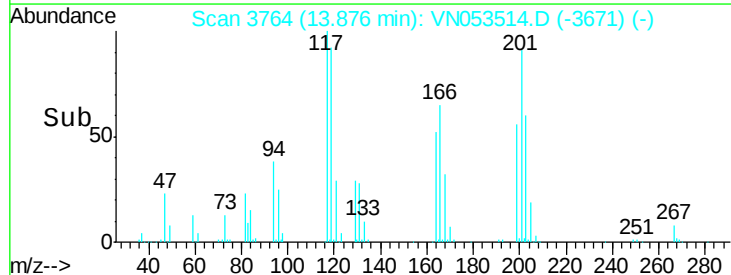
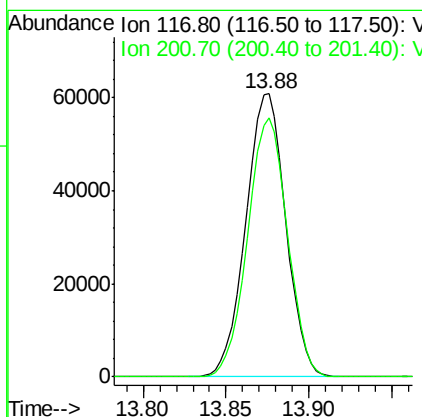
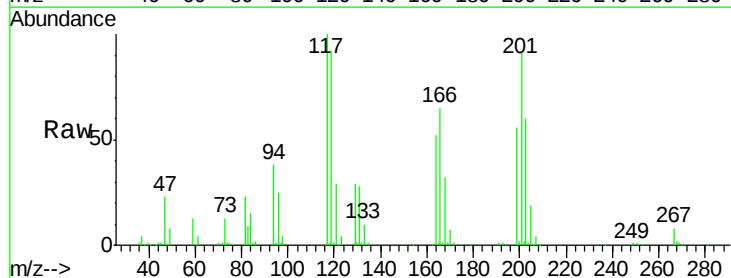
Manual Integrations
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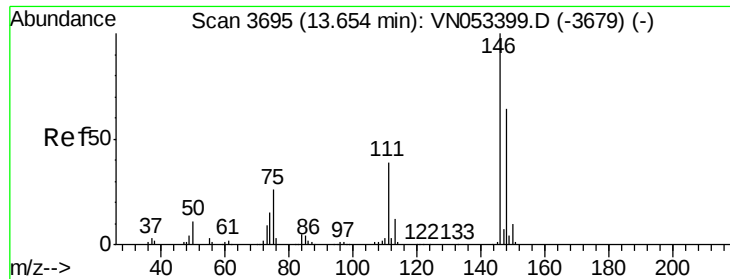
MMDadoda
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#90
Hexachloroethane
Concen: 20.851 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. 0.00 min
Lab File: VN053514.D
Acq: 22 Jan 2019 12:56

Tgt Ion	Ratio	Lower	Upper
117	100		
201	90.8	46.8	140.4





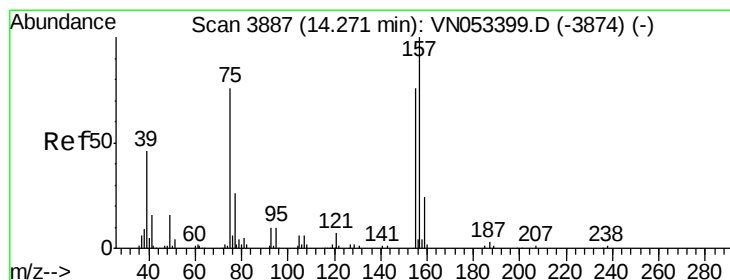
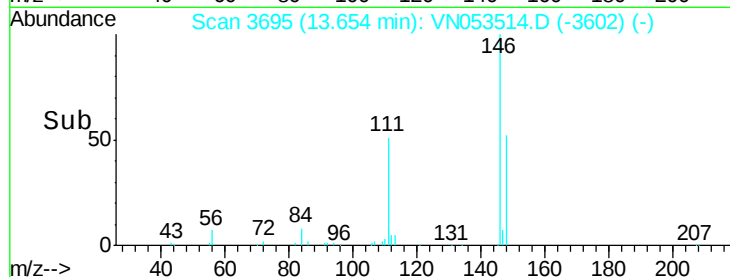
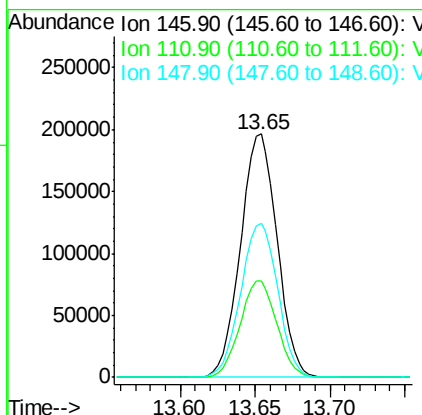
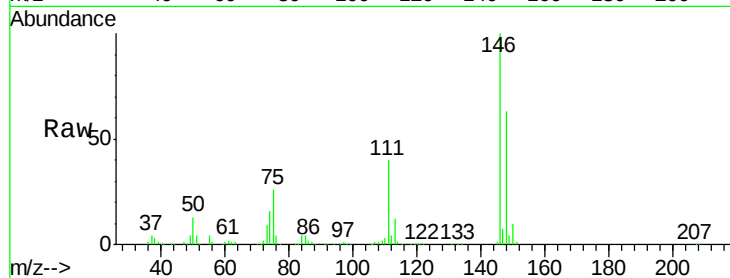
#91
 1,2-Dichlorobenzene
 Concen: 21.569 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN053514.D
 Acq: 22 Jan 2019 12:56

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0122WBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.6	19.5	58.5
148	64.0	31.9	95.9

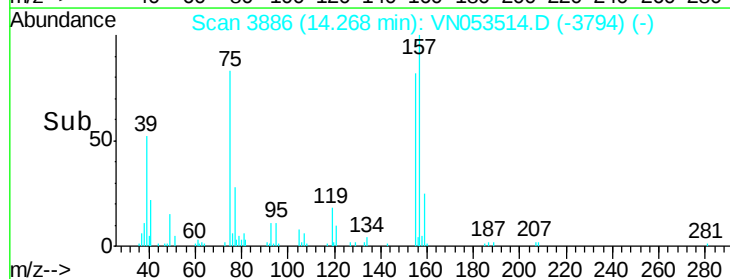
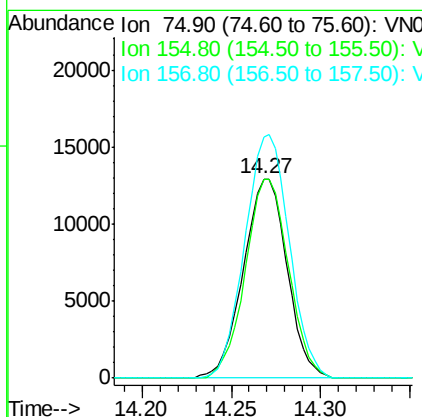
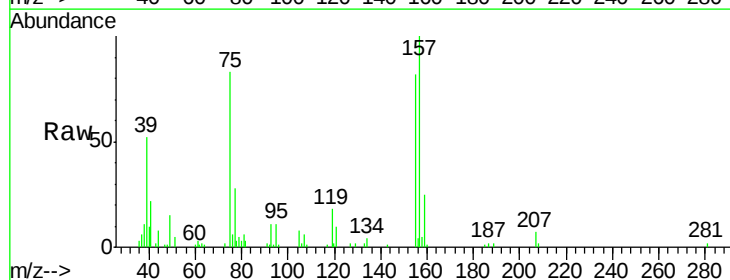
Manual Integrations
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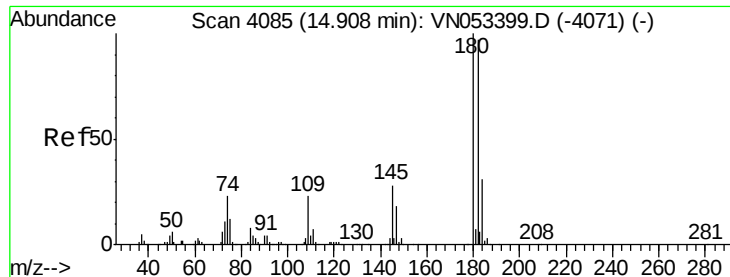
MMDadoda
 1/23/2019 11:00:45 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 22.861 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. -0.00 min
 Lab File: VN053514.D
 Acq: 22 Jan 2019 12:56

Tgt Ion	Ratio	Lower	Upper
75	100		
155	98.7	48.9	146.7
157	124.2	63.7	191.3





#93

1,2,4-Trichlorobenzene

Concen: 22.953 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. 0.00 min

Lab File: VN053514.D

Acq: 22 Jan 2019 12:56

Instrument :

MSVOA_N

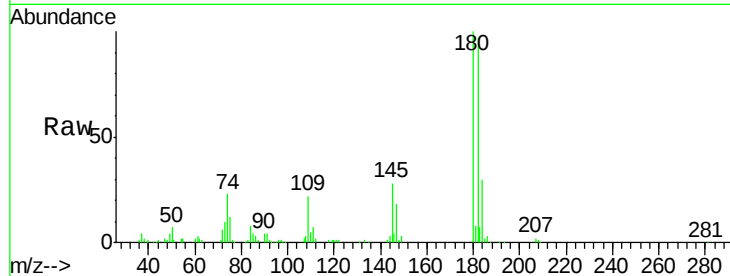
ClientSampleId :

VN0122WBS01

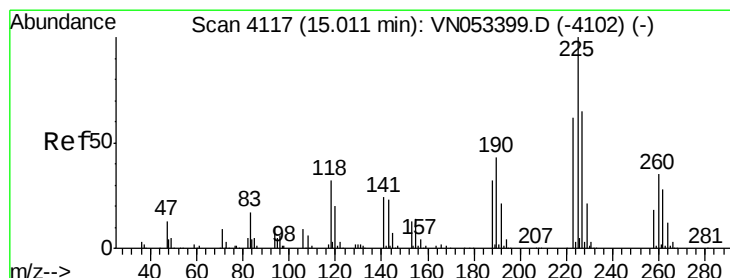
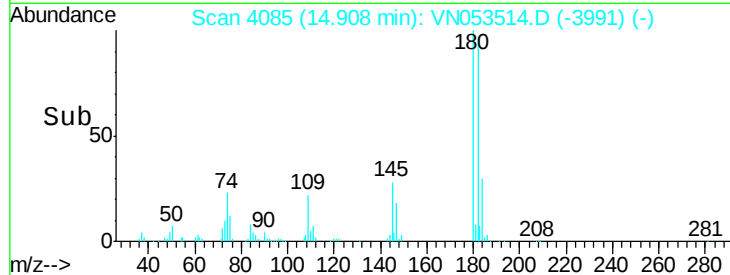
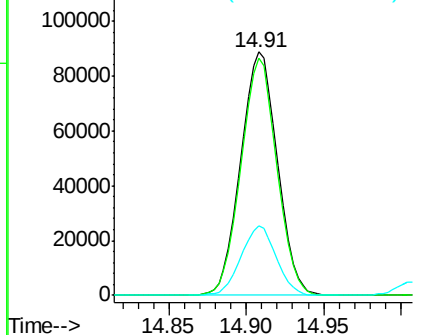
Tot Ion:	180	Resp:	146338
Ion Ratio	Lower	Upper	
180	100		
182	95.4	48.1	144.3
145	27.5	13.9	41.6

Manual Integrations
APPROVED

MMDadoda
1/23/2019 11:00:45 AM



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.80 (144.50 to 145.50): V



#94

Hexachlorobutadiene

Concen: 22.982 ug/l

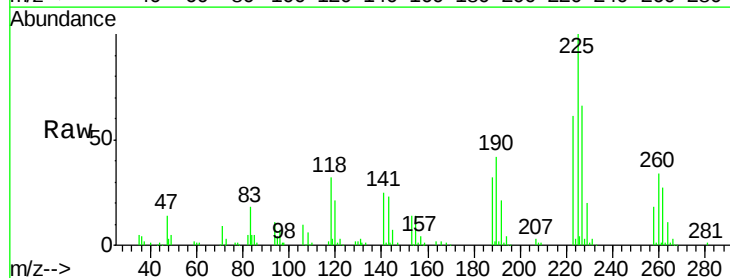
RT: 15.01 min Scan# 4116

Delta R.T. -0.00 min

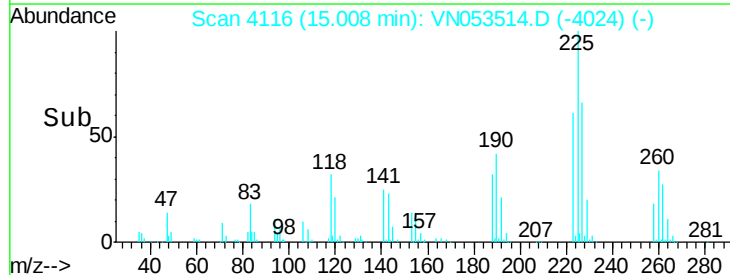
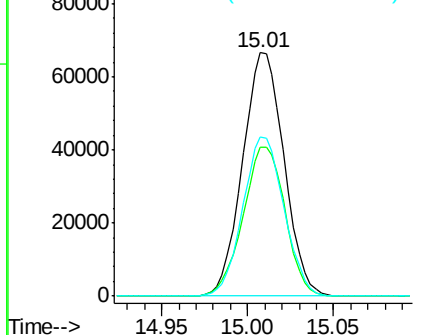
Lab File: VN053514.D

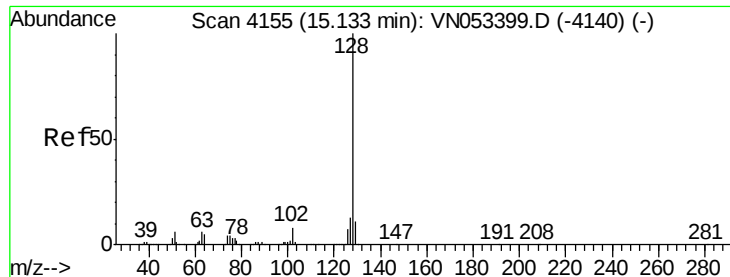
Acq: 22 Jan 2019 12:56

Tgt Ion:	225	Resp:	111272
Ion Ratio	Lower	Upper	
225	100		
223	62.0	31.1	93.2
227	64.9	32.0	96.2



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: 22.093 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN053514.D

Acq: 22 Jan 2019 12:56

Instrument :

MSVOA_N

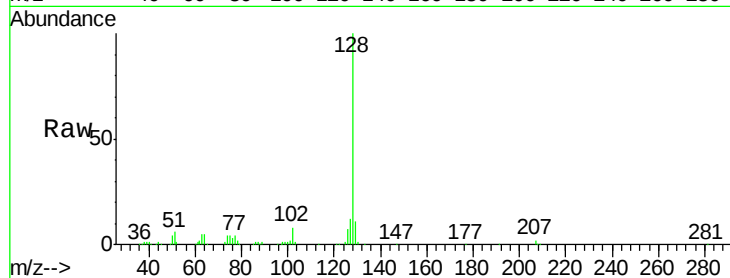
ClientSampleId :

VN0122WBS01

Tot Ion:	128	Resp:	236776
Ion Ratio	Lower	Upper	
128	100		
127	12.4	10.3	15.5
129	10.8	8.6	13.0

Manual Integrations
APPROVED

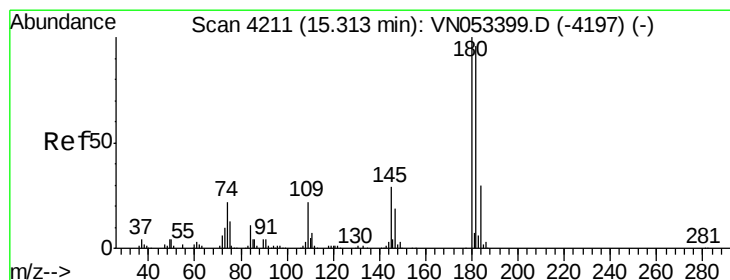
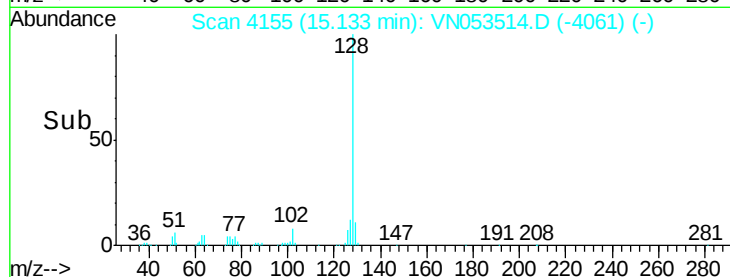
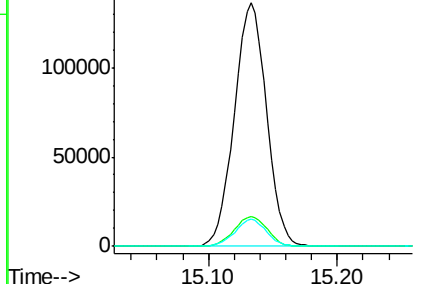
MMDadoda
1/23/2019 11:00:45 AM



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 23.762 ug/l

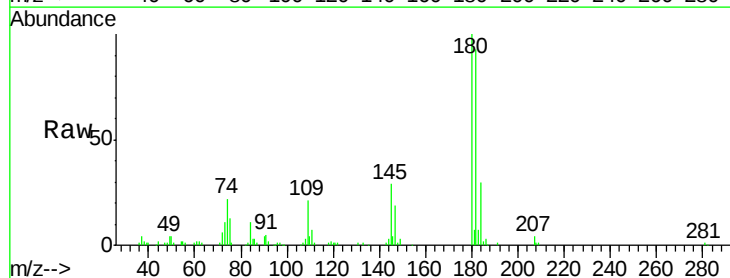
RT: 15.32 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN053514.D

Acq: 22 Jan 2019 12:56

Tgt Ion:	180	Resp:	107935
Ion Ratio	Lower	Upper	
180	100		
182	94.6	47.9	143.8
145	28.8	14.7	44.1



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

