

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101019\
 Data File : VN058650.D
 Acq On : 9 Oct 2019 19:10
 Operator : JC/SP
 Sample : VN1010WBS01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1010WBS01

Manual Integrations
 APPROVED

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 10/10/2019 3:20:37 PM

Quant Time: Oct 10 05:23:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N092719W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 30 08:07:38 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	438644	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	726150	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	654835	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	303413	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.01	65	270760	42.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	84.48%	
35) Dibromofluoromethane	7.57	113	200834	45.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.26%	
50) Toluene-d8	10.08	98	737852	42.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	84.64%	
62) 4-Bromofluorobenzene	12.41	95	273367	43.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.72%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.83	85	81554	16.956	ug/l	100
3) Chloromethane	2.04	50	105276	19.910	ug/l	99
4) Vinyl Chloride	2.17	62	106363	20.534	ug/l	99
5) Bromomethane	2.55	94	46604	16.938	ug/l	100
6) Chloroethane	2.69	64	66898	21.554	ug/l	100
7) Trichlorofluoromethane	3.00	101	134743	21.556	ug/l	99
8) Diethyl Ether	3.39	74	50520	18.732	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	3.74	101	76878	18.109	ug/l	98
10) Methyl Iodide	3.93	142	60865	12.930	ug/l	99
11) Tert butyl alcohol	4.75	59	77181	108.384	ug/l #	81
12) 1,1-Dichloroethene	3.72	96	72783	17.589	ug/l	95
13) Acrolein	3.59	56	19737	87.142	ug/l	93
14) Allyl chloride	4.30	41	142773m	18.960	ug/l	
15) Acrylonitrile	4.96	53	204390	98.482	ug/l	100
16) Acetone	3.79	43	193221	88.425	ug/l	97
17) Carbon Disulfide	4.03	76	195996	17.969	ug/l	99
18) Methyl Acetate	4.30	43	105458	19.189	ug/l	99
19) Methyl tert-butyl Ether	5.02	73	275483	18.868	ug/l	98
20) Methylene Chloride	4.53	84	91936	18.232	ug/l	98
21) trans-1,2-Dichloroethene	5.02	96	81569	17.727	ug/l	96
22) Diisopropyl ether	5.93	45	304864	18.813	ug/l	96
23) Vinyl Acetate	5.87	43	1193134	97.649	ug/l	99
24) 1,1-Dichloroethane	5.83	63	169961	18.636	ug/l	98
25) 2-Butanone	6.81	43	266318	88.769	ug/l	99
26) 2,2-Dichloropropane	6.80	77	148083	19.751	ug/l	100
27) cis-1,2-Dichloroethene	6.81	96	96934	18.024	ug/l	99
28) Bromochloromethane	7.18	49	63913	17.532	ug/l	99
29) Tetrahydrofuran	7.19	42	179130	94.074	ug/l	98
30) Chloroform	7.35	83	173244	18.746	ug/l	94
31) Cyclohexane	7.64	56	149423	16.844	ug/l #	93
32) 1,1,1-Trichloroethane	7.55	97	148668	19.590	ug/l	99
36) 1,1-Dichloropropene	7.77	75	122078	17.582	ug/l	99
37) Ethyl Acetate	6.91	43	116668	19.818	ug/l	99
38) Carbon Tetrachloride	7.76	117	128148	20.447	ug/l	97

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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.07	83	132254	16.311	ug/l	95
40) Benzene	8.03	78	365126	18.294	ug/l	100
41) Methacrylonitrile	7.15	41	54908	20.274	ug/l	92
42) 1,2-Dichloroethane	8.11	62	141958	18.282	ug/l	100
43) Isopropyl Acetate	8.15	43	194105	17.534	ug/l	98
44) Trichloroethene	8.82	130	91759	18.619	ug/l	98
45) 1,2-Dichloropropane	9.11	63	102298	19.111	ug/l	98
46) Dibromomethane	9.20	93	62989	18.582	ug/l	98
47) Bromodichloromethane	9.39	83	130908	20.382	ug/l	98
48) Methyl methacrylate	9.19	41	90720	17.998	ug/l	95
49) 1,4-Dioxane	9.19	88	31114	461.628	ug/l	96
51) 4-Methyl-2-Pentanone	9.98	43	563325	99.068	ug/l	99
52) Toluene	10.15	92	225297	17.934	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	139746	19.991	ug/l	97
54) cis-1,3-Dichloropropene	9.83	75	155286	20.011	ug/l	96
55) 1,1,2-Trichloroethane	10.56	97	88605	19.370	ug/l	98
56) Ethyl methacrylate	10.43	69	127906	18.428	ug/l	97
57) 1,3-Dichloropropane	10.71	76	158264	19.397	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.69	63	299250	108.123	ug/l	99
59) 2-Hexanone	10.75	43	392515	94.800	ug/l	99
60) Dibromochloromethane	10.90	129	96098	19.955	ug/l	99
61) 1,2-Dibromoethane	11.00	107	88429	18.920	ug/l	100
64) Tetrachloroethene	10.63	164	80617	19.377	ug/l	97
65) Chlorobenzene	11.43	112	239318	18.386	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	91153	20.785	ug/l	100
67) Ethyl Benzene	11.51	91	432088	18.327	ug/l	100
68) m/p-Xylenes	11.62	106	313900	35.387	ug/l	96
69) o-Xylene	11.95	106	154984	18.150	ug/l	100
70) Styrene	11.97	104	245038	17.664	ug/l	99
71) Bromoform	12.13	173	60855	20.495	ug/l #	98
73) Isopropylbenzene	12.25	105	423972	18.908	ug/l	100
74) N-amyl acetate	12.07	43	160756	18.021	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.51	83	128053	19.313	ug/l	99
76) 1,2,3-Trichloropropane	12.56	75	100929m	18.212	ug/l	
77) Bromobenzene	12.53	156	100737	19.160	ug/l	99
78) n-propylbenzene	12.60	91	489359	19.371	ug/l	100
79) 2-Chlorotoluene	12.68	91	291994	18.727	ug/l	100
80) 1,3,5-Trimethylbenzene	12.74	105	357536	19.048	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	34108	18.692	ug/l	95
82) 4-Chlorotoluene	12.78	91	295558	18.576	ug/l	100
83) tert-Butylbenzene	13.00	119	301532	19.038	ug/l	100
84) 1,2,4-Trimethylbenzene	13.05	105	359670	19.125	ug/l	100
85) sec-Butylbenzene	13.18	105	397924	19.088	ug/l	99
86) p-Isopropyltoluene	13.29	119	356399	19.422	ug/l	99
87) 1,3-Dichlorobenzene	13.29	146	178899	18.765	ug/l	99
88) 1,4-Dichlorobenzene	13.37	146	174292	18.375	ug/l	98
89) n-Butylbenzene	13.62	91	306231	18.423	ug/l	99
90) Hexachloroethane	13.88	117	61153	22.180	ug/l	100
91) 1,2-Dichlorobenzene	13.66	146	175721	19.183	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.28	75	23218	19.857	ug/l	100

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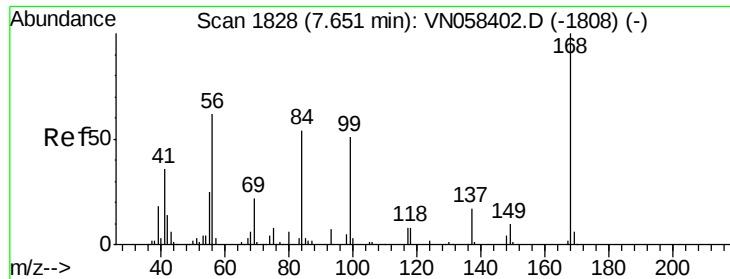
Manual Integrations
APPROVED

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QLast Update : Mon Sep 30 08:07:38 2019
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.92	180	97190	19.200	ug/l	98
94) Hexachlorobutadiene	15.02	225	49157	18.894	ug/l	97
95) Naphthalene	15.13	128	266696	17.972	ug/l	99
96) 1,2,3-Trichlorobenzene	15.30	180	92413	18.194	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN058650.D

Acq: 9 Oct 2019 19:10

Instrument :

MSVOA_N

ClientSampleId :

VN1010WBS01

Tot Ion:168 Resp: 438644

Ion Ratio Lower Upper

168 100

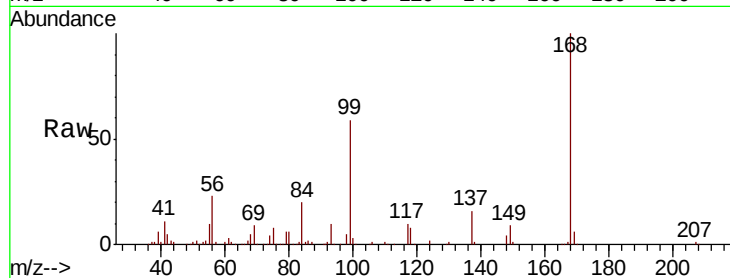
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Manual Integrations

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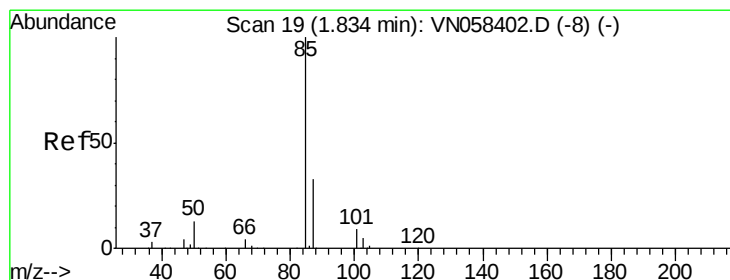
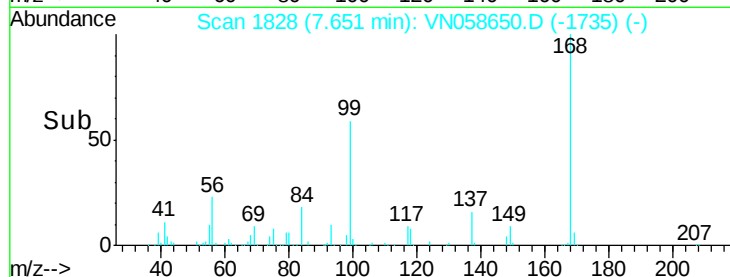
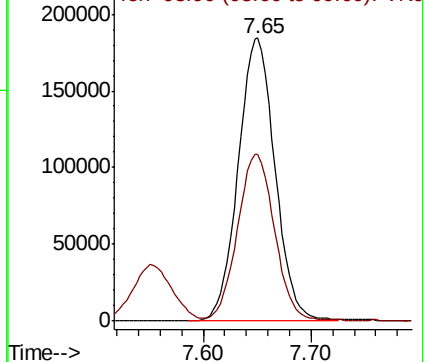
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNC



#2

Dichlorodifluoromethane

Concen: 16.956 ug/l

RT: 1.83 min Scan# 19

Delta R.T. 0.00 min

Lab File: VN058650.D

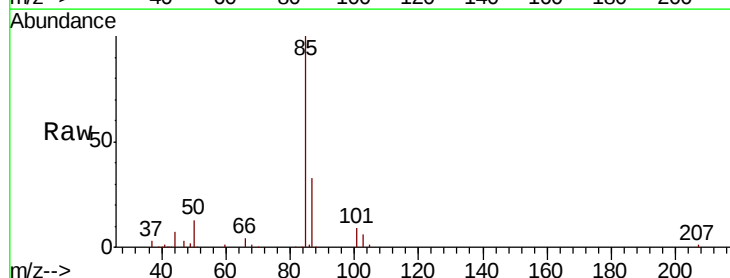
Acq: 9 Oct 2019 19:10

Tgt Ion: 85 Resp: 81554

Ion Ratio Lower Upper

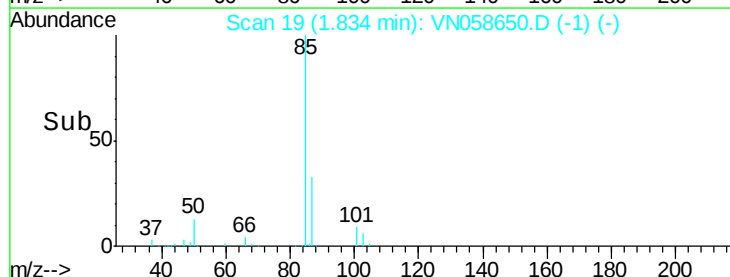
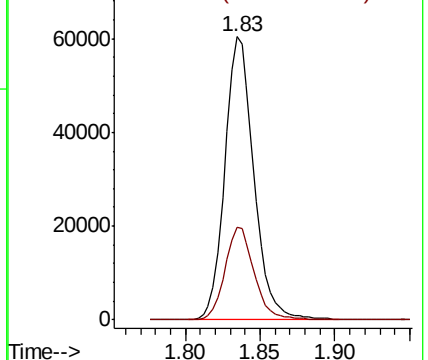
85 100

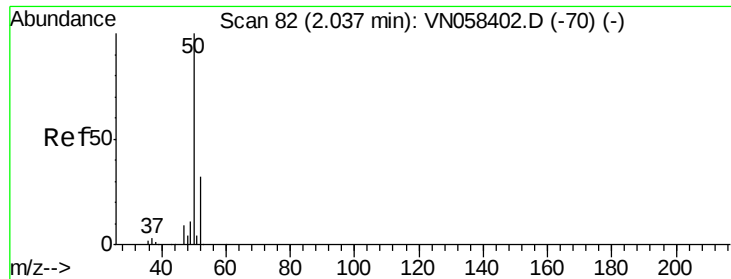
87 32.9 16.4 49.1



Abundance Ion 84.90 (84.60 to 85.60): VNC

Ion 86.90 (86.60 to 87.60): VNC





#3

Chloromethane

Concen: 19.910 ug/l

RT: 2.04 min Scan# 83

Delta R.T. 0.00 min

Lab File: VN058650.D

Acq: 9 Oct 2019 19:10

Instrument :

MSVOA_N

ClientSampleId :

VN1010WBS01

Tot Ion: 50 Resp: 105276

Ion Ratio Lower Upper

50 100

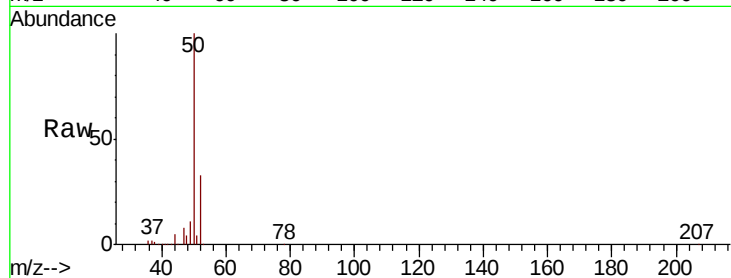
52 32.7 25.9 38.9

Manual Integrations

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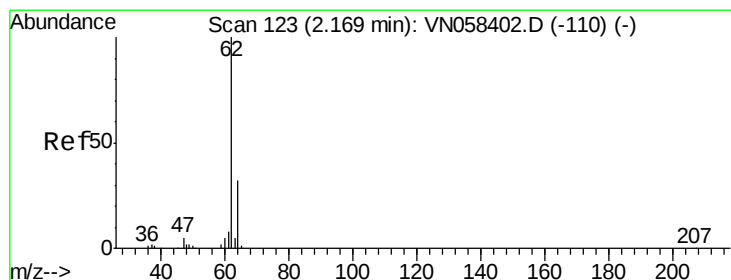
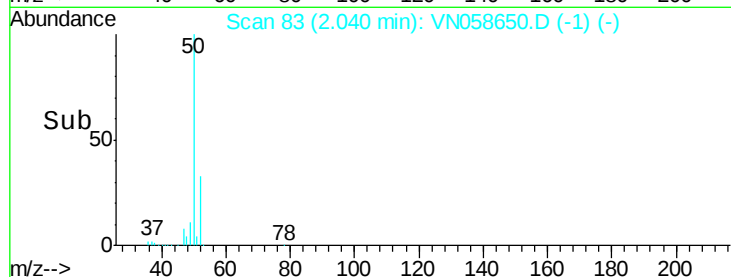
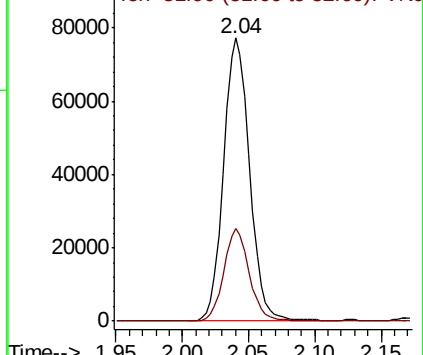
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Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO



#4

Vinyl Chloride

Concen: 20.534 ug/l

RT: 2.17 min Scan# 123

Delta R.T. 0.00 min

Lab File: VN058650.D

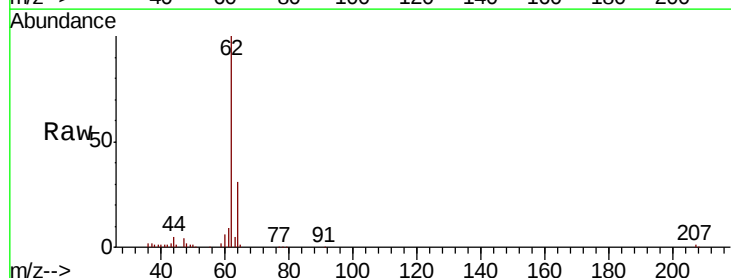
Acq: 9 Oct 2019 19:10

Tgt Ion: 62 Resp: 106363

Ion Ratio Lower Upper

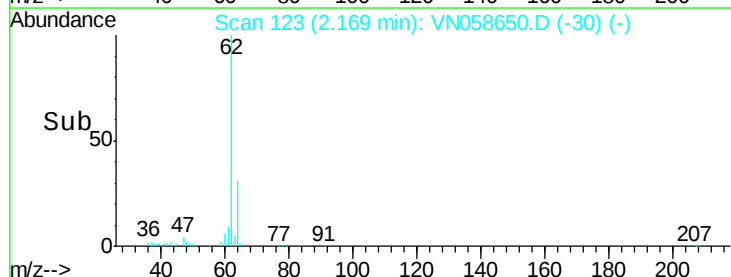
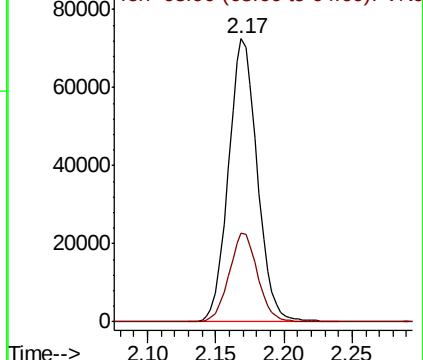
62 100

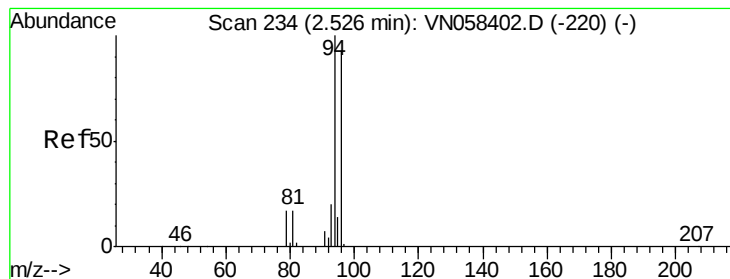
64 31.2 25.5 38.3



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO





#5

Bromomethane

Concen: 16.938 ug/l

RT: 2.55 min Scan# 241

Delta R.T. 0.02 min

Lab File: VN058650.D

Acq: 9 Oct 2019 19:10

Instrument :

MSVOA_N

ClientSampleId :

VN1010WBS01

Tot Ion: 94 Resp: 46604

Ion Ratio Lower Upper

94 100

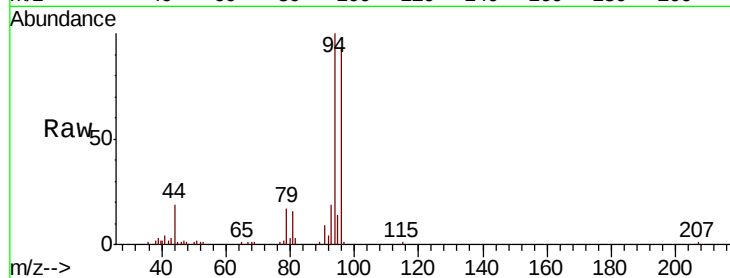
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Manual Integrations

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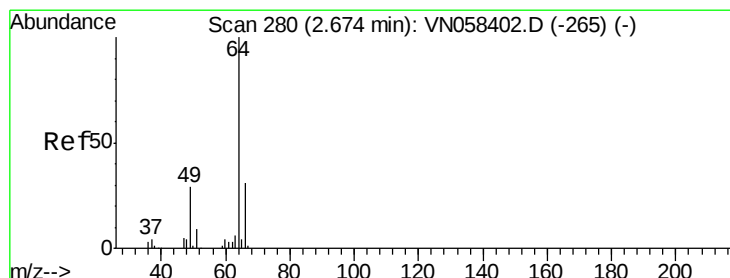
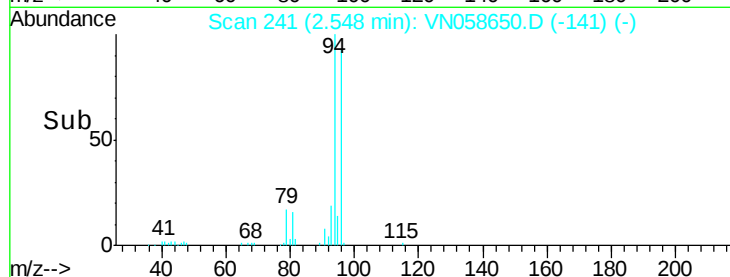
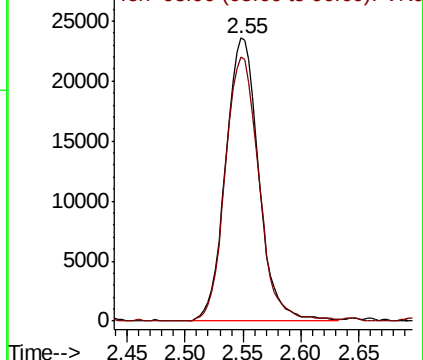
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Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 21.554 ug/l

RT: 2.69 min Scan# 284

Delta R.T. 0.01 min

Lab File: VN058650.D

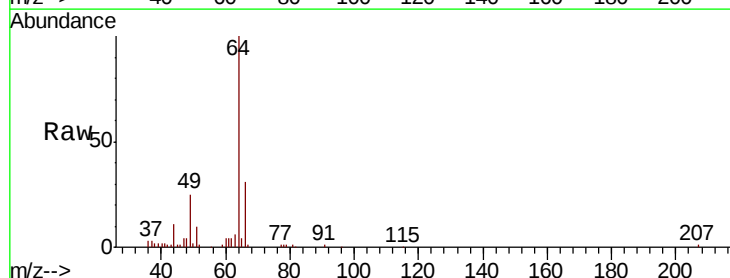
Acq: 9 Oct 2019 19:10

Tgt Ion: 64 Resp: 66898

Ion Ratio Lower Upper

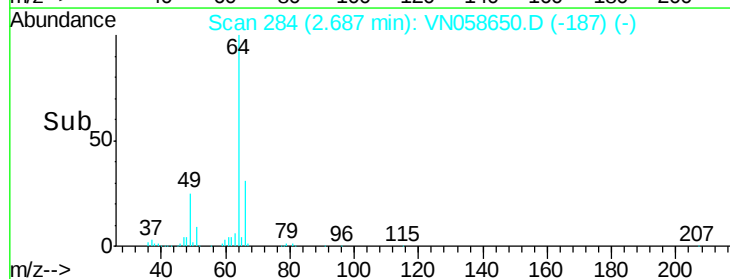
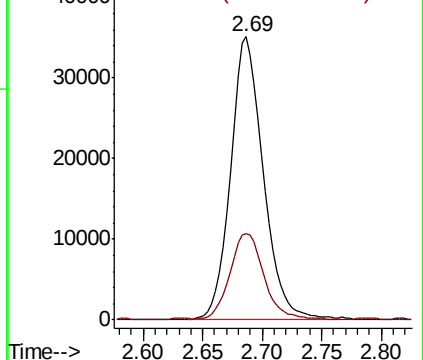
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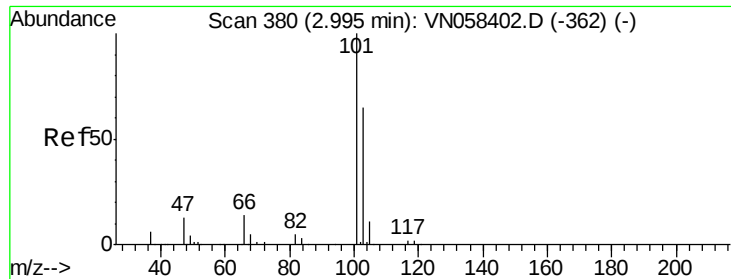
66 30.7 24.4 36.6



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#7

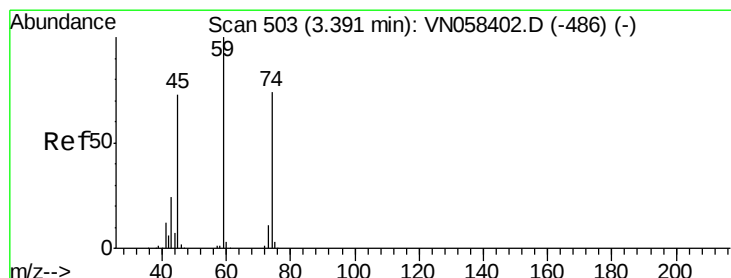
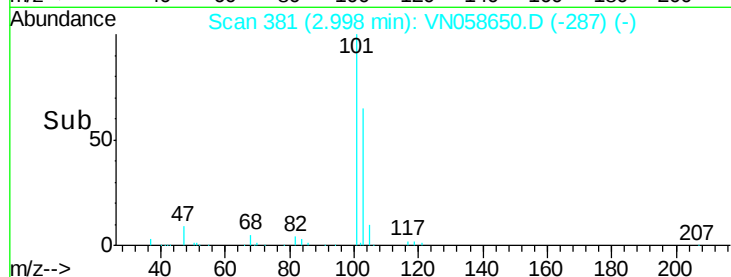
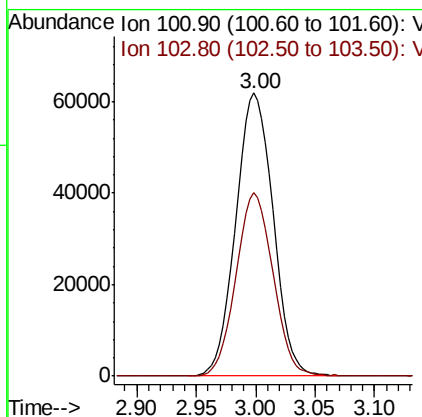
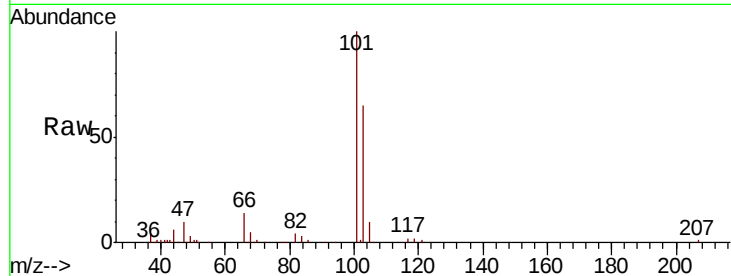
Trichlorofluoromethane
 Concen: 21.556 ug/l
 RT: 3.00 min Scan# 381
 Delta R.T. 0.00 min
 Lab File: VN058650.D
 Acq: 9 Oct 2019 19:10

Instrument :
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Tot Ion	Ion	Ratio	Resp	Lower	Upper
101	100		134743		
103	64.9	52.3	78.5		

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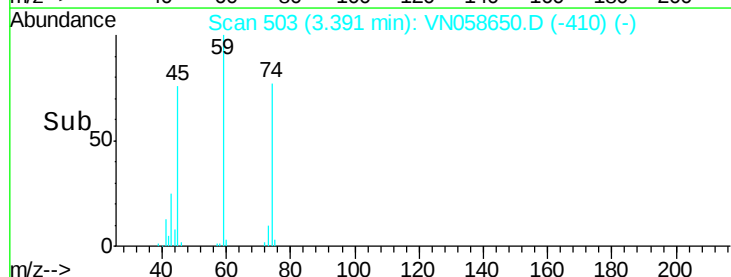
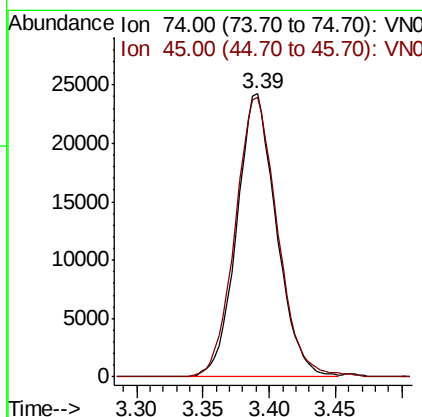
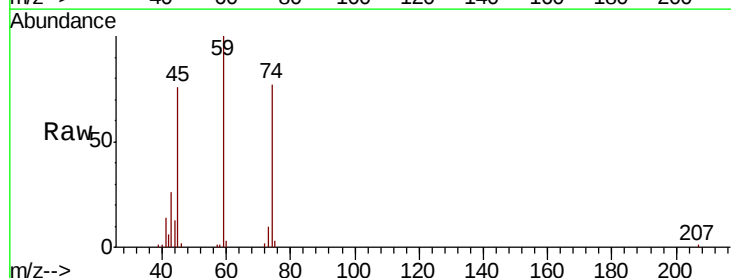
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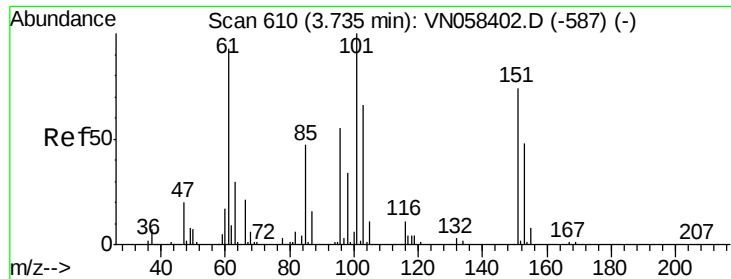


#8

Diethyl Ether
 Concen: 18.732 ug/l
 RT: 3.39 min Scan# 503
 Delta R.T. 0.00 min
 Lab File: VN058650.D
 Acq: 9 Oct 2019 19:10

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
74	100		50520		
45	105.2	50.5	151.6		





#9

1,1,2-Trichlorotrifluoroethane

Concen: 18.109 ug/l

RT: 3.74 min Scan# 611

Delta R.T. 0.00 min

Lab File: VN058650.D

Acq: 9 Oct 2019 19:10

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MSVOA_N

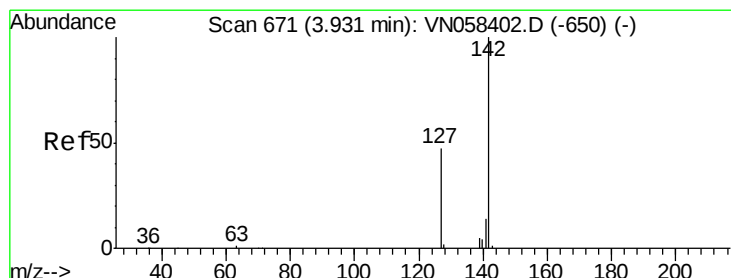
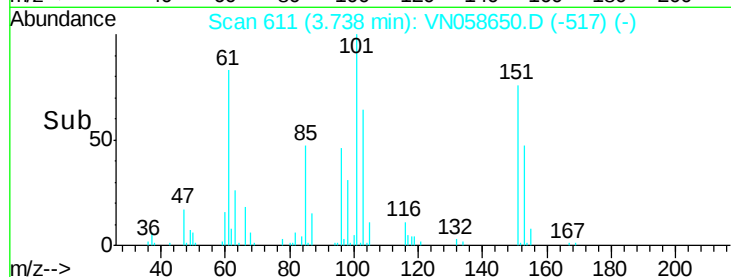
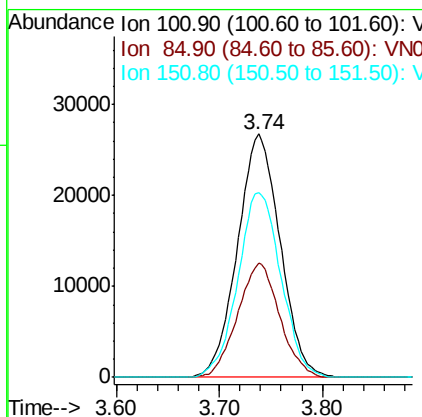
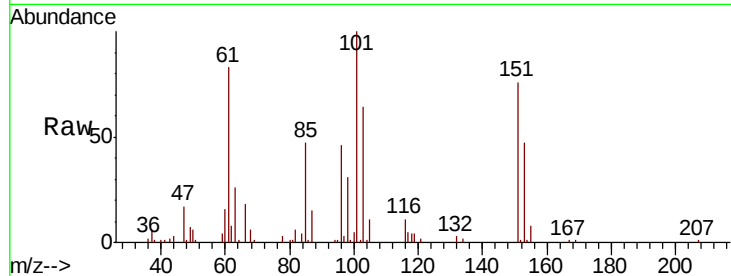
ClientSampleId :

VN1010WBS01

Tot Ion:	101	Resp:	76878
Ion Ratio	Lower	Upper	
101	100		
85	46.3	36.7	55.1
151	76.6	59.4	89.0

Manual Integrations
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#10

Methyl Iodide

Concen: 12.930 ug/l

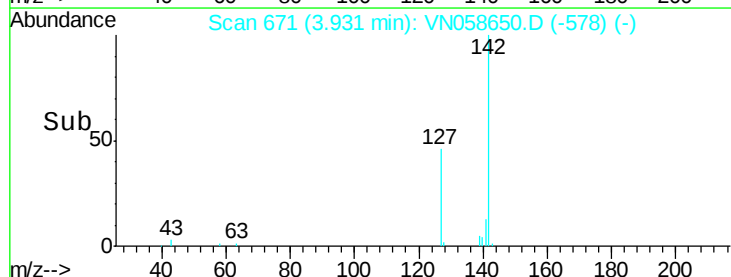
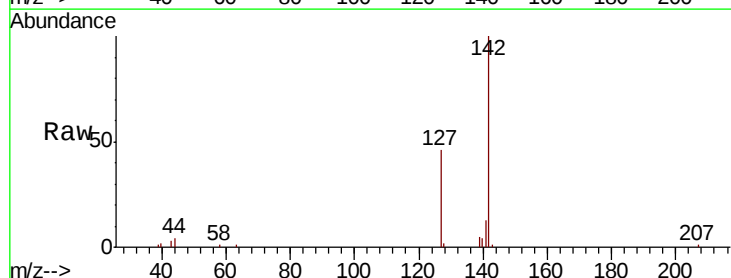
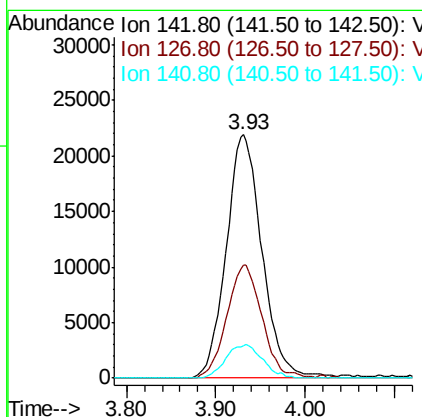
RT: 3.93 min Scan# 671

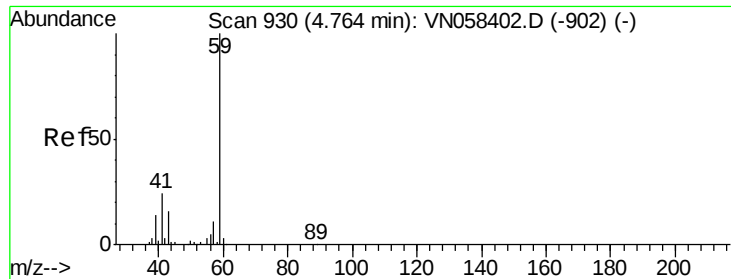
Delta R.T. 0.00 min

Lab File: VN058650.D

Acq: 9 Oct 2019 19:10

Tgt Ion:	142	Resp:	60865
Ion Ratio	Lower	Upper	
142	100		
127	45.3	37.2	55.8
141	14.1	11.3	16.9





#11

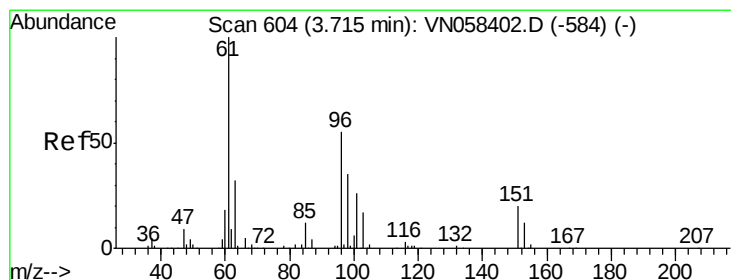
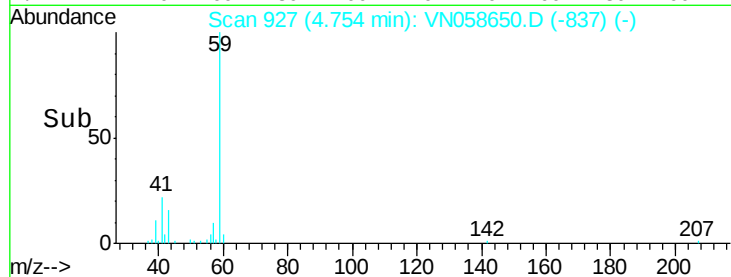
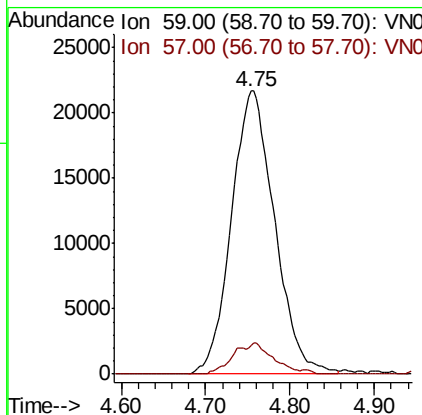
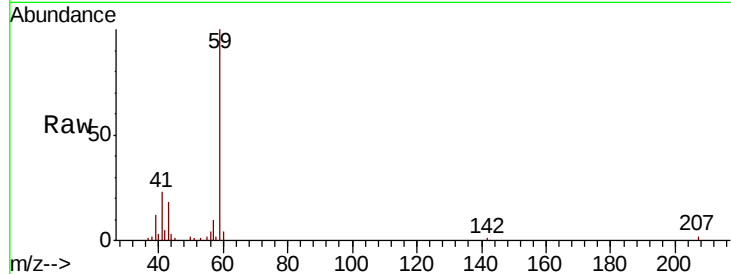
Tert butyl alcohol
 Concen: 108.384 ug/l
 RT: 4.75 min Scan# 927
 Delta R.T. -0.01 min
 Lab File: VN058650.D
 Acq: 9 Oct 2019 19:10

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1010WBS01

Tot Ion	Ratio	Lower	Upper
59	100		
57	3.8	9.0	13.4#

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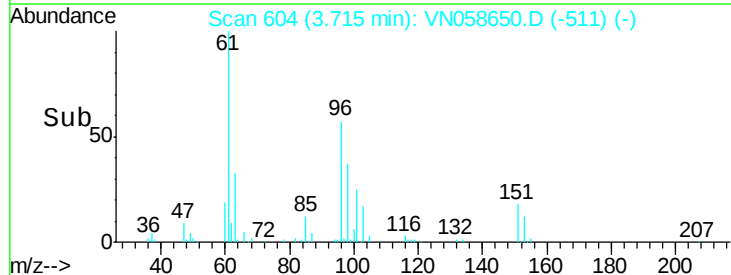
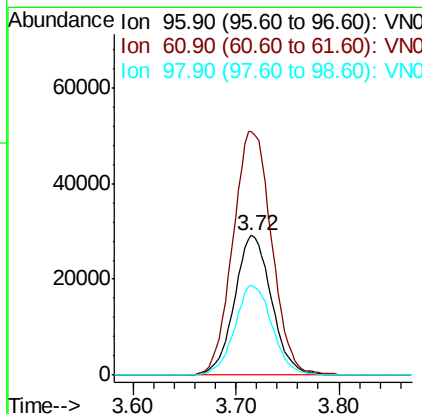
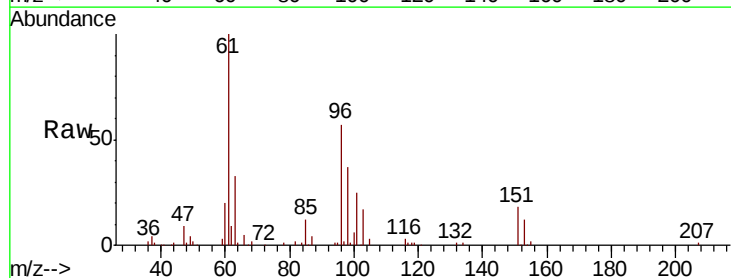
MMDadoda
 10/10/2019 3:20:37 PM

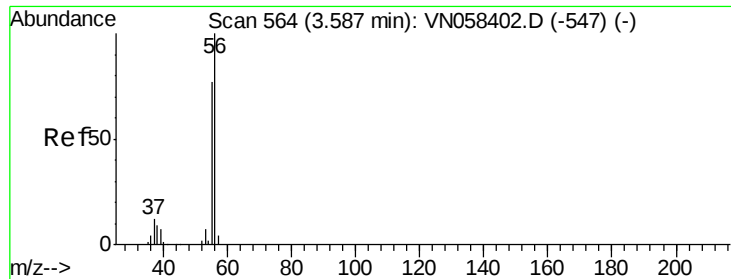


#12

1,1-Dichloroethene
 Concen: 17.589 ug/l
 RT: 3.72 min Scan# 604
 Delta R.T. 0.00 min
 Lab File: VN058650.D
 Acq: 9 Oct 2019 19:10

Tgt Ion	Ratio	Lower	Upper
96	100		
61	174.5	146.7	220.1
98	64.2	51.3	76.9





#13

Acrolein

Concen: 87.142 ug/l

RT: 3.59 min Scan# 564

Delta R.T. 0.00 min

Lab File: VN058650.D

Acq: 9 Oct 2019 19:10

Instrument :

MSVOA_N

ClientSampleId :

VN1010WBS01

Tot Ion: 56 Resp: 19737

Ion Ratio Lower Upper

56 100

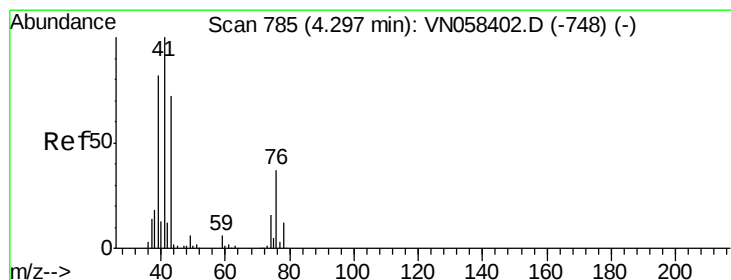
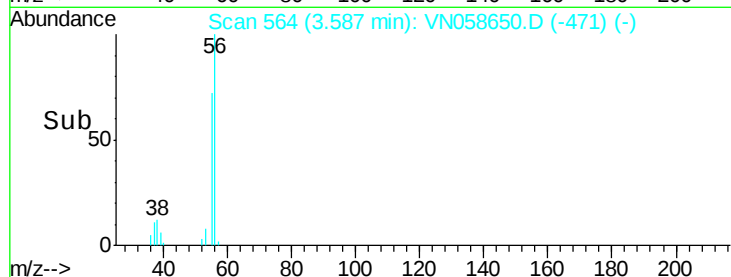
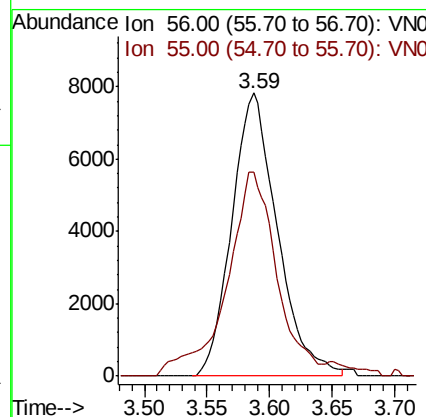
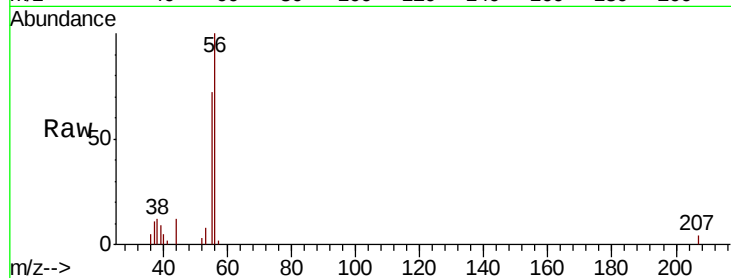
55 78.7 58.3 87.5

Manual Integrations

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#14

Allyl chloride

Concen: 18.960 ug/l m

RT: 4.30 min Scan# 785

Delta R.T. 0.00 min

Lab File: VN058650.D

Acq: 9 Oct 2019 19:10

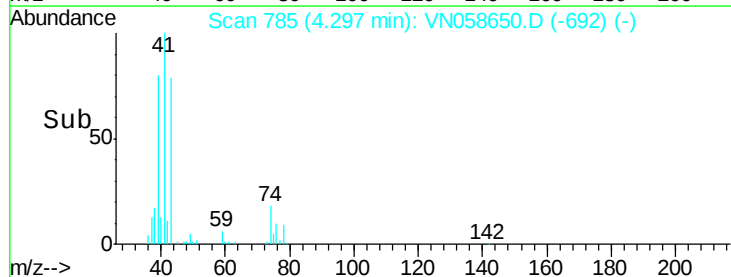
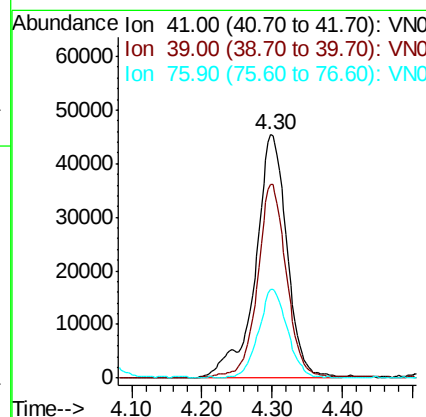
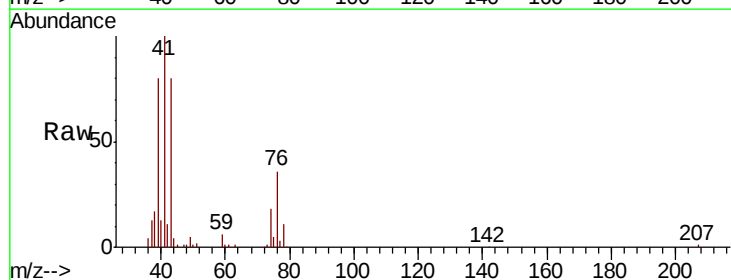
Tgt Ion: 41 Resp: 142773

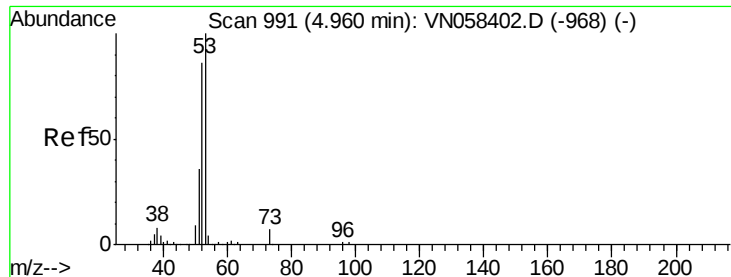
Ion Ratio Lower Upper

41 100

39 73.1 62.3 93.5

76 33.4 26.9 40.3





#15

Acrylonitrile

Concen: 98.482 ug/l

RT: 4.96 min Scan# 991

Delta R.T. 0.00 min

Lab File: VN058650.D

Acq: 9 Oct 2019 19:10

Instrument :

MSVOA_N

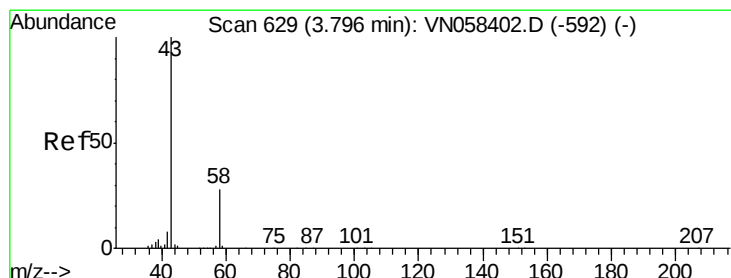
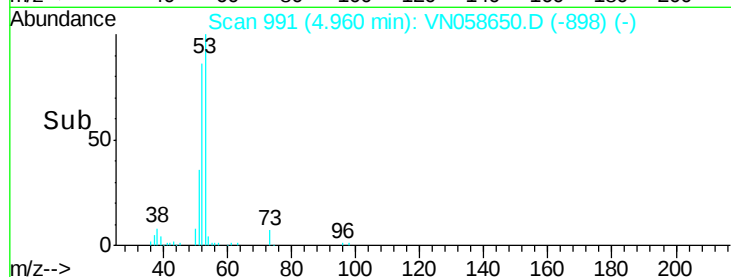
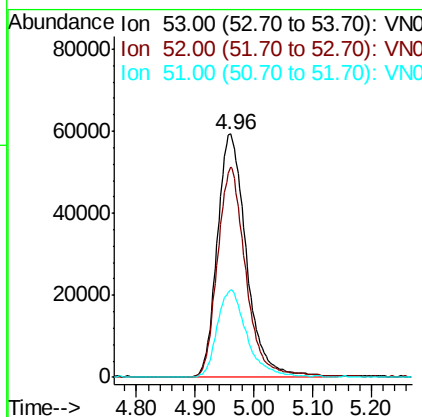
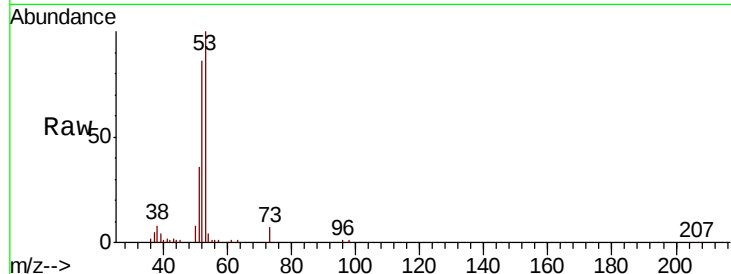
ClientSampleId :

VN1010WBS01

Tot Ion:	53	Resp:	204390
Ion	Ratio	Lower	Upper
53	100		
52	83.4	66.6	100.0
51	36.6	29.8	44.8

Manual Integrations
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#16

Acetone

Concen: 88.425 ug/l

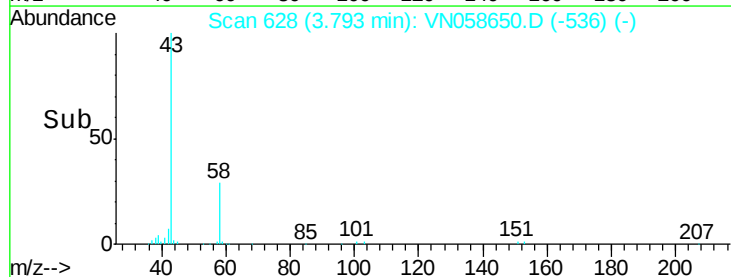
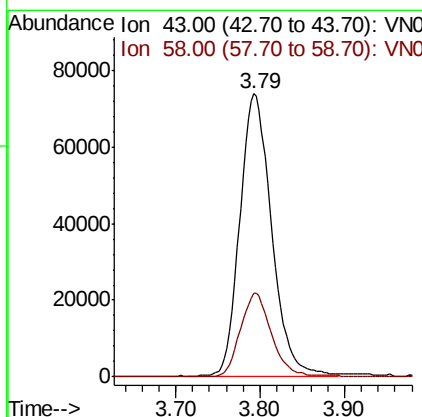
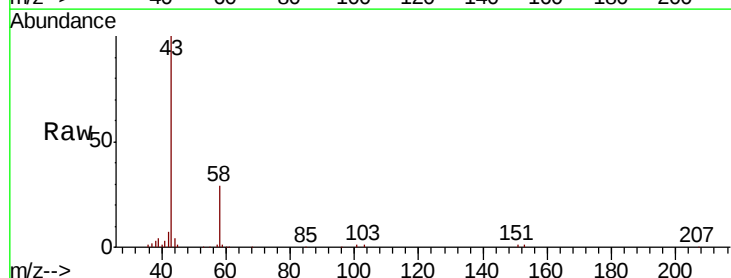
RT: 3.79 min Scan# 628

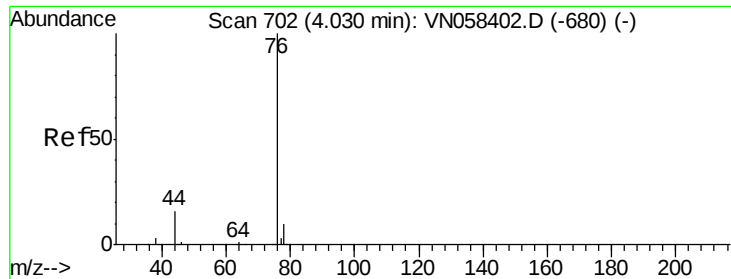
Delta R.T. -0.00 min

Lab File: VN058650.D

Acq: 9 Oct 2019 19:10

Tgt Ion:	43	Resp:	193221
Ion	Ratio	Lower	Upper
43	100		
58	29.5	22.4	33.6





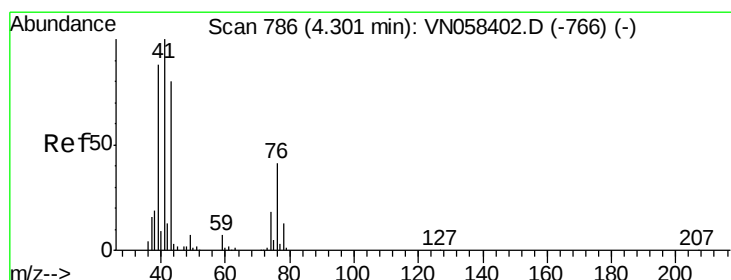
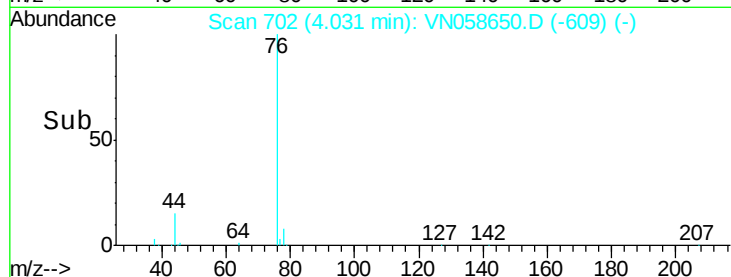
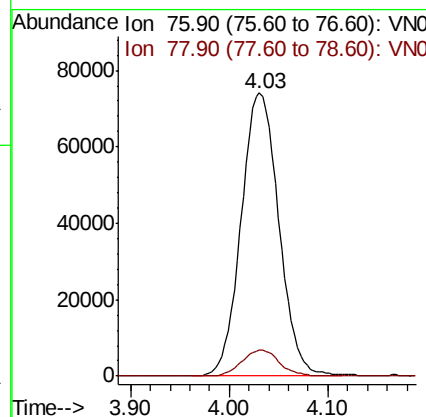
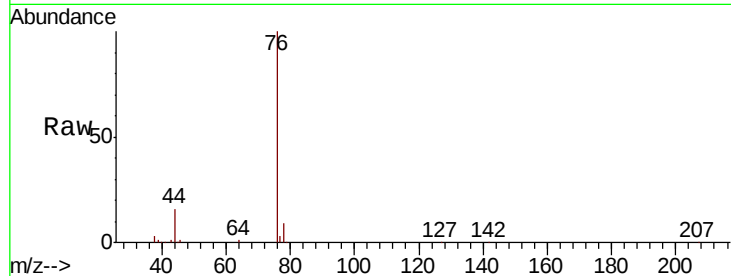
#17
Carbon Disulfide
Concen: 17.969 ug/l
RT: 4.03 min Scan# 702
Delta R.T. 0.00 min
Lab File: VN058650.D
Acq: 9 Oct 2019 19:10

Instrument :
MSVOA_N
ClientSampleId :
VN1010WBS01

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.3	7.7	11.5

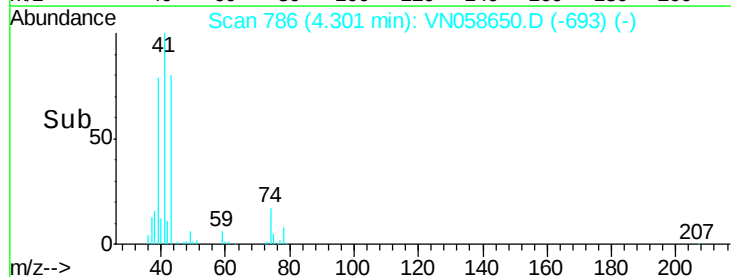
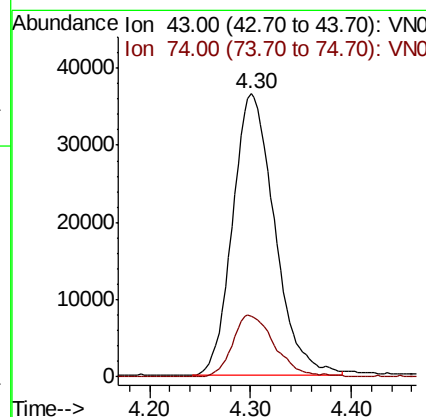
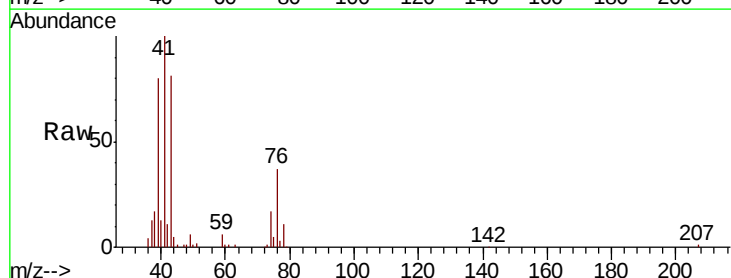
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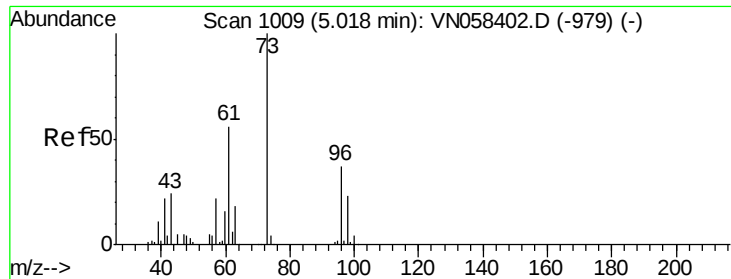
MMDadoda
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#18
Methyl Acetate
Concen: 19.189 ug/l
RT: 4.30 min Scan# 786
Delta R.T. 0.00 min
Lab File: VN058650.D
Acq: 9 Oct 2019 19:10

Tgt Ion	Ratio	Lower	Upper
43	100		
74	21.8	18.0	27.0





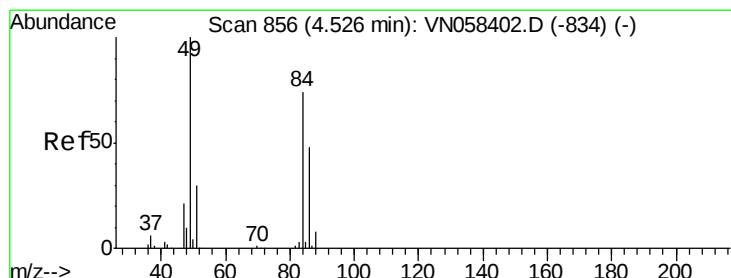
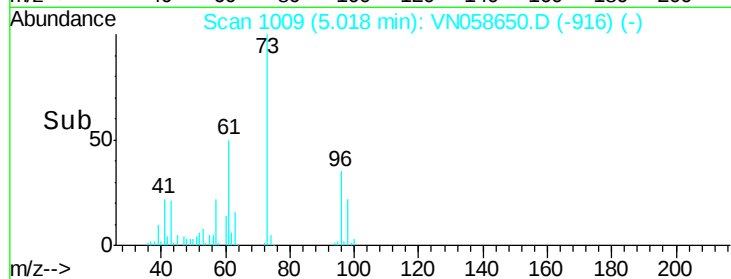
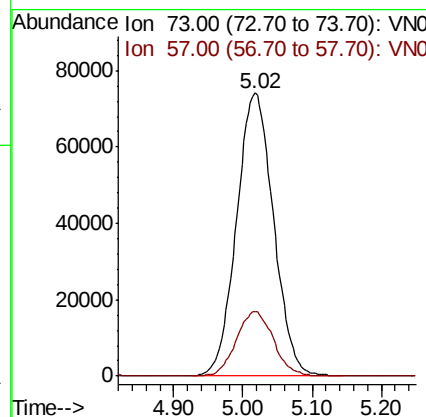
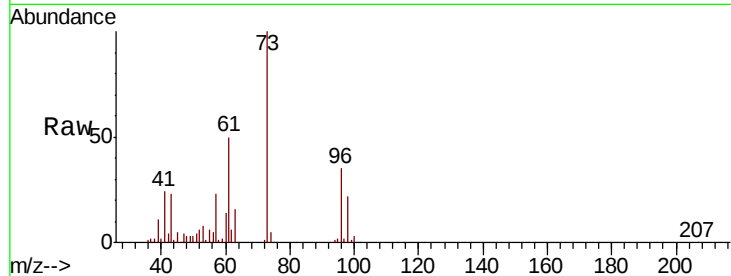
#19
Methvl tert-butvl Ether
Concen: 18.868 ug/l
RT: 5.02 min Scan# 1009
Delta R.T. 0.00 min
Lab File: VN058650.D
Acq: 9 Oct 2019 19:10

Instrument :
MSVOA_N
ClientSampleId :
VN1010WBS01

Tot Ion: 73 Resp: 275483
Ion Ratio Lower Upper
73 100
57 22.9 17.6 26.4

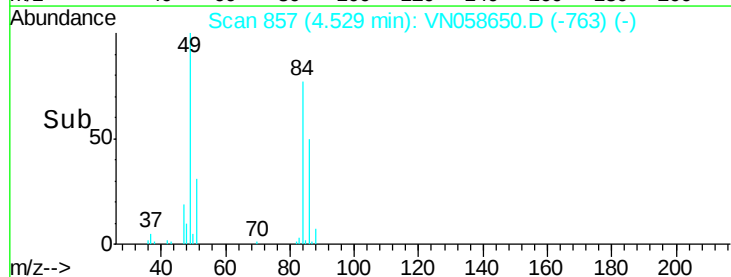
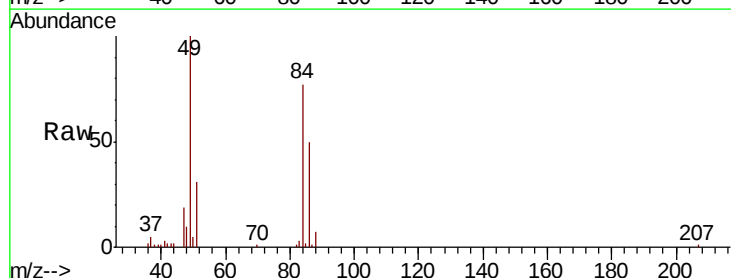
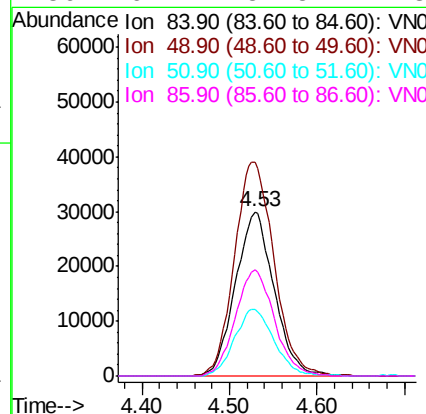
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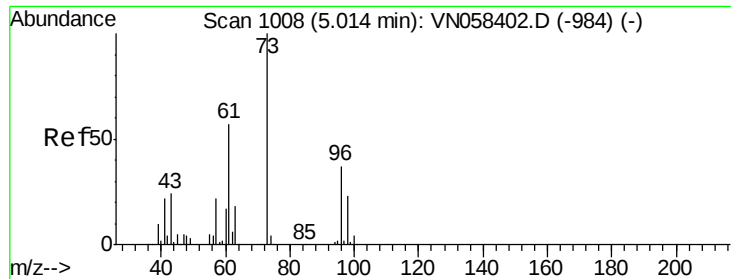
MMDadoda
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#20
Methylene Chloride
Concen: 18.232 ug/l
RT: 4.53 min Scan# 857
Delta R.T. 0.00 min
Lab File: VN058650.D
Acq: 9 Oct 2019 19:10

Tgt Ion: 84 Resp: 91936
Ion Ratio Lower Upper
84 100
49 130.3 107.9 161.9
51 40.3 32.8 49.2
86 64.7 51.5 77.3





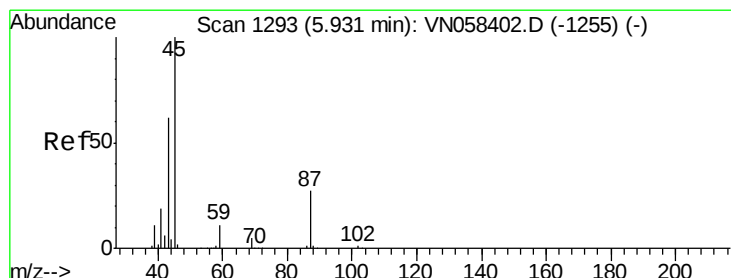
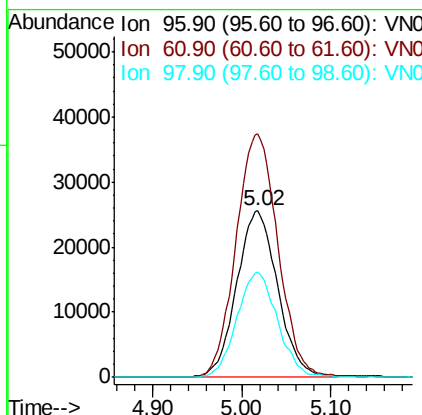
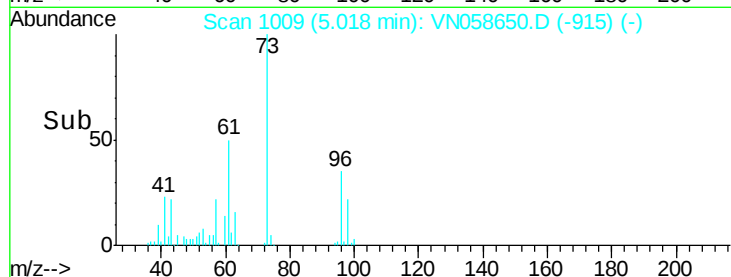
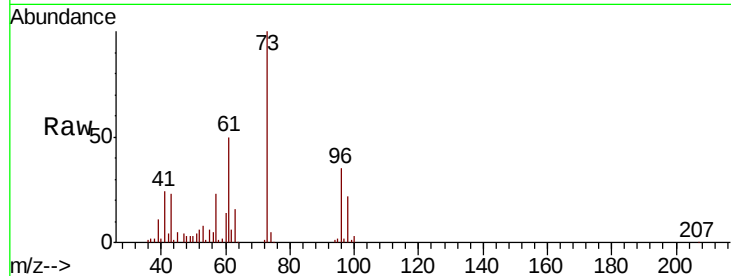
#21
trans-1,2-Dichloroethene
Concen: 17.727 ug/l
RT: 5.02 min Scan# 1009
Delta R.T. 0.00 min
Lab File: VN058650.D
Acq: 9 Oct 2019 19:10

Instrument :
MSVOA_N
ClientSampleId :
VN1010WBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	146.2	121.9	182.9
98	63.4	49.3	73.9

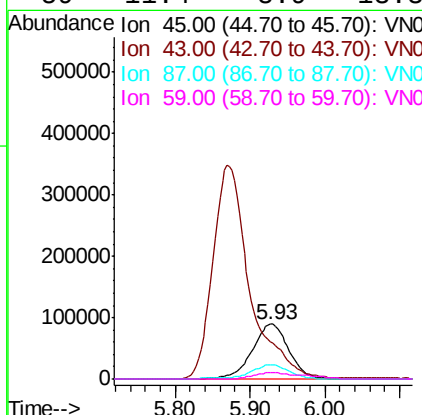
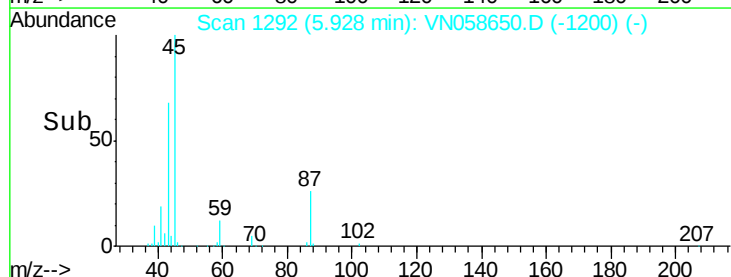
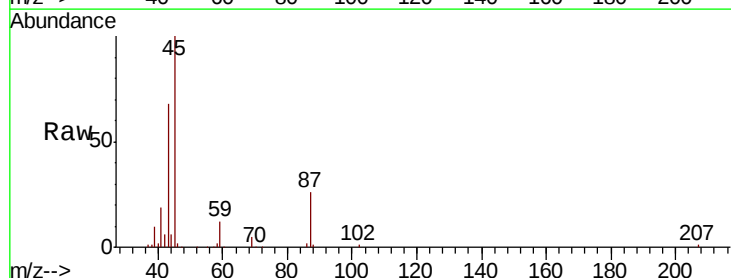
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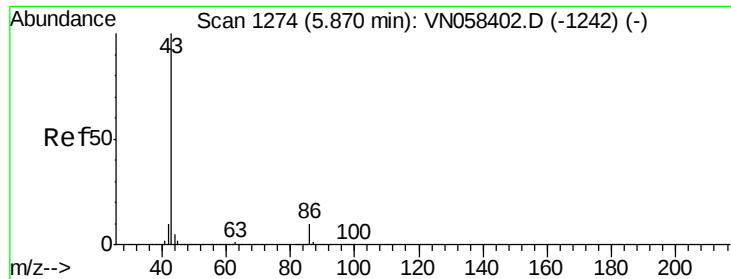
MMDadoda
10/10/2019 3:20:37 PM



#22
Diisopropyl ether
Concen: 18.813 ug/l
RT: 5.93 min Scan# 1292
Delta R.T. -0.00 min
Lab File: VN058650.D
Acq: 9 Oct 2019 19:10

Tgt Ion	Ratio	Lower	Upper
45	100		
43	65.6	49.7	74.5
87	25.6	21.5	32.3
59	11.4	8.9	13.3





#23

Vinyl Acetate

Concen: 97.649 ug/l

RT: 5.87 min Scan# 1274

Delta R.T. 0.00 min

Lab File: VN058650.D

Acq: 9 Oct 2019 19:10

Instrument :

MSVOA_N

ClientSampleId :

VN1010WBS01

Tot Ion: 43 Resp: 1193134

Ion Ratio Lower Upper

43 100

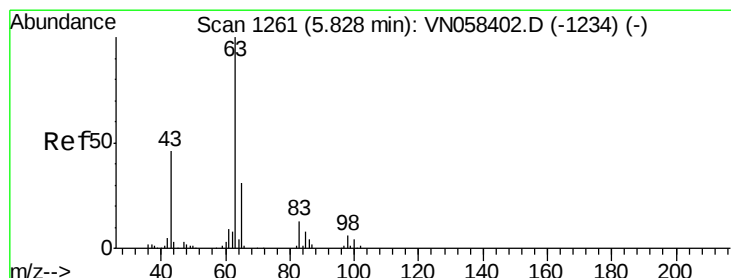
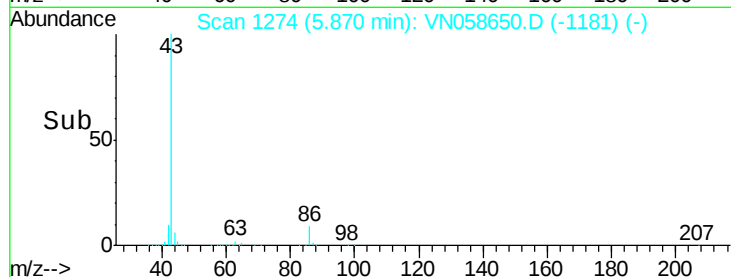
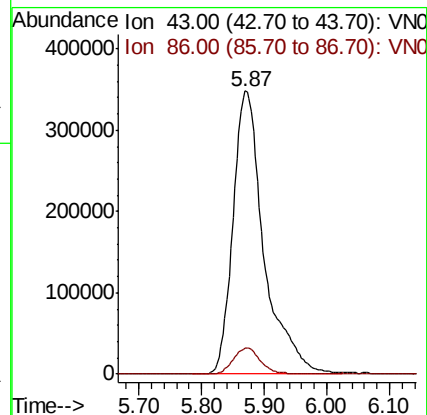
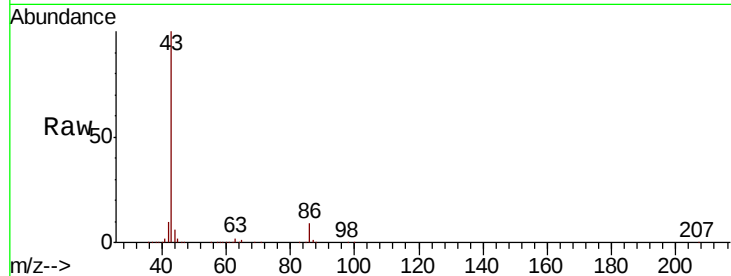
86 9.2 7.7 11.5

Manual Integrations

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#24

1,1-Dichloroethane

Concen: 18.636 ug/l

RT: 5.83 min Scan# 1261

Delta R.T. 0.00 min

Lab File: VN058650.D

Acq: 9 Oct 2019 19:10

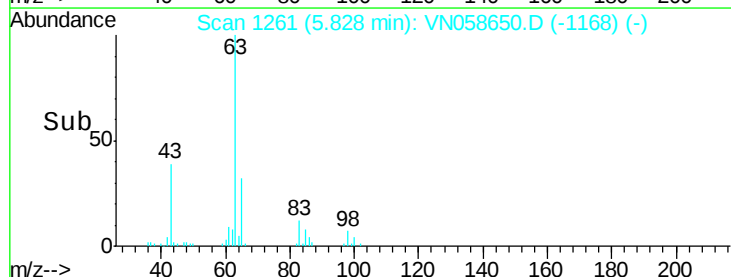
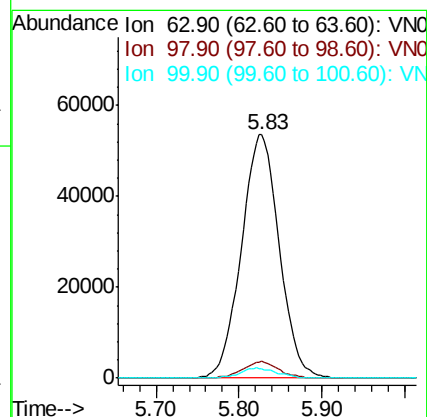
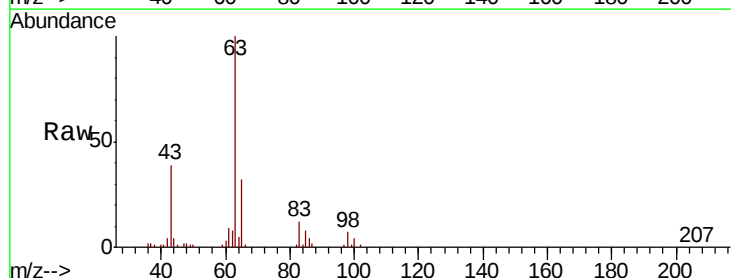
Tgt Ion: 63 Resp: 169961

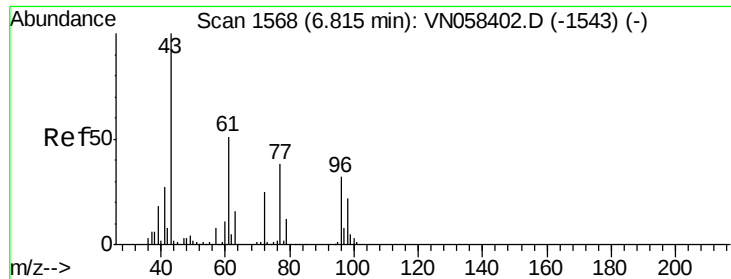
Ion Ratio Lower Upper

63 100

98 6.9 3.0 9.0

100 3.6 2.0 5.8





#25

2-Butanone

Concen: 88.769 ug/l

RT: 6.81 min Scan# 1567

Delta R.T. -0.00 min

Lab File: VN058650.D

Acq: 9 Oct 2019 19:10

Instrument :

MSVOA_N

ClientSampleId :

VN1010WBS01

Tot Ion: 43 Resp: 266318

Ion Ratio Lower Upper

43 100

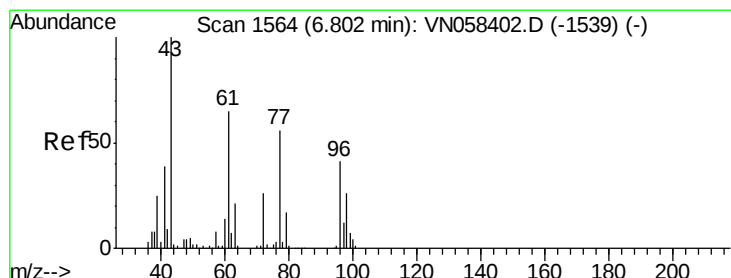
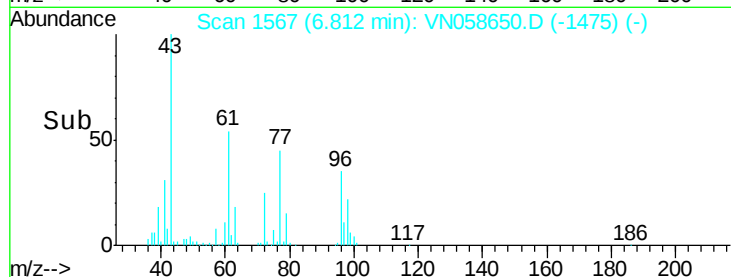
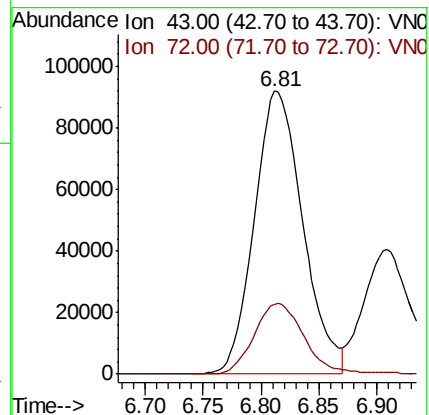
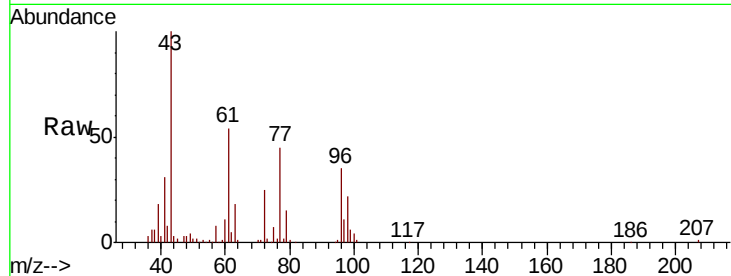
72 24.7 20.2 30.4

Manual Integrations

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MMDadoda

10/10/2019 3:20:37 PM



#26

2,2-Dichloropropane

Concen: 19.751 ug/l

RT: 6.80 min Scan# 1564

Delta R.T. 0.00 min

Lab File: VN058650.D

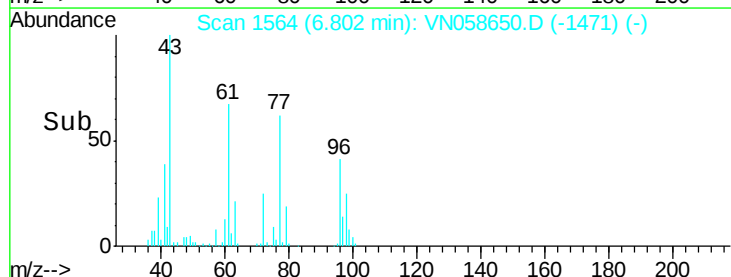
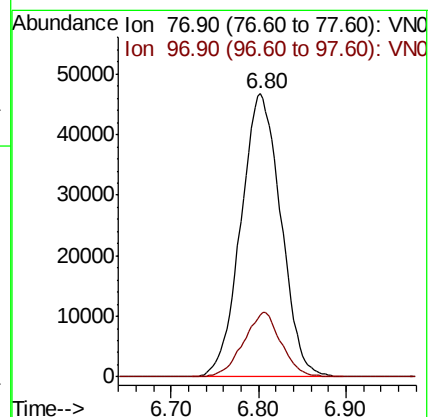
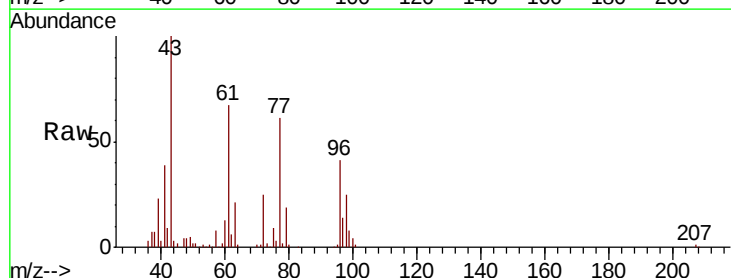
Acq: 9 Oct 2019 19:10

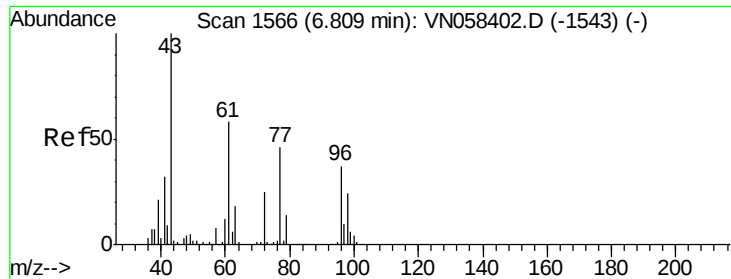
Tgt Ion: 77 Resp: 148083

Ion Ratio Lower Upper

77 100

97 21.5 10.9 32.6





#27

cis-1,2-Dichloroethene

Concen: 18.024 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. 0.00 min

Lab File: VN058650.D

Acq: 9 Oct 2019 19:10

Instrument :

MSVOA_N

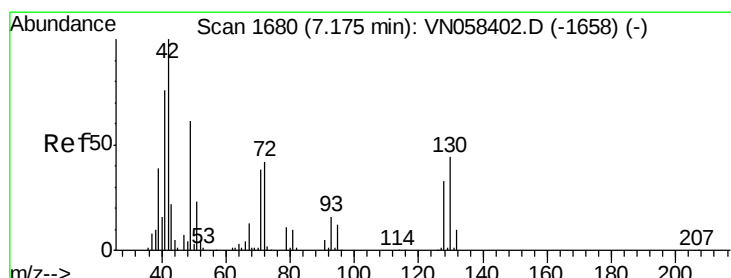
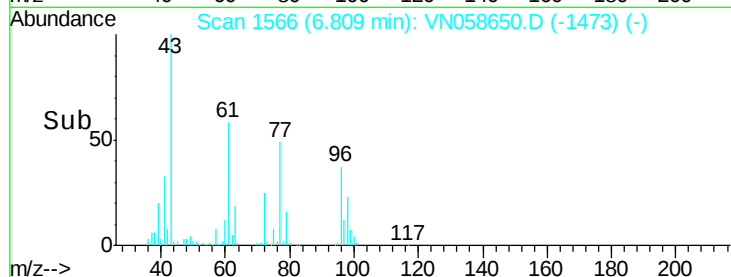
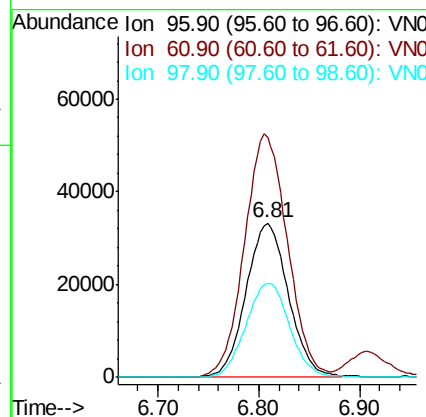
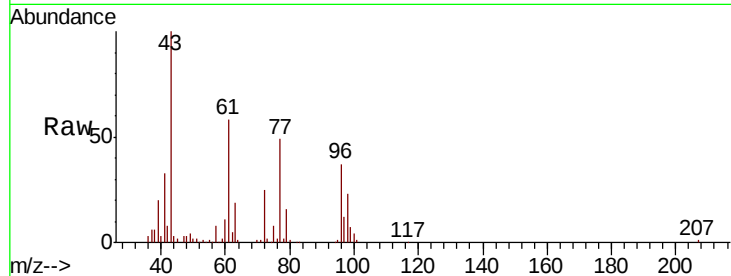
ClientSampleId :

VN1010WBS01

Tot Ion:	96	Resp:	96934
Ion	Ratio	Lower	Upper
96	100		
61	160.5	0.0	318.8
98	63.1	0.0	129.8

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#28

Bromochloromethane

Concen: 17.532 ug/l

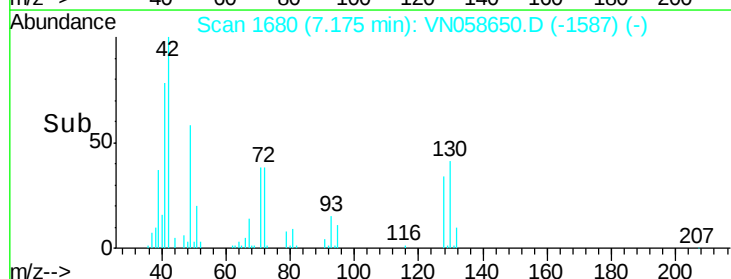
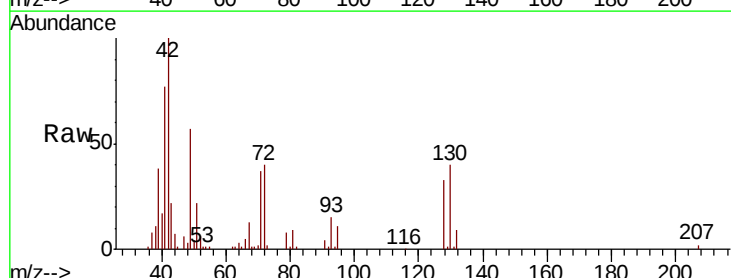
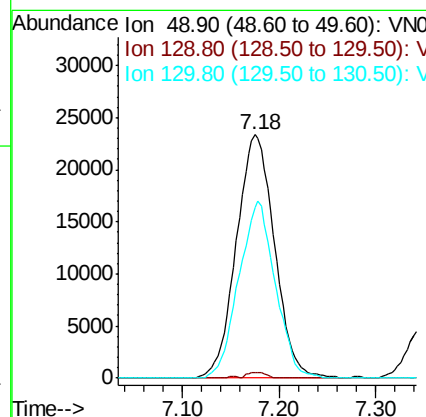
RT: 7.18 min Scan# 1680

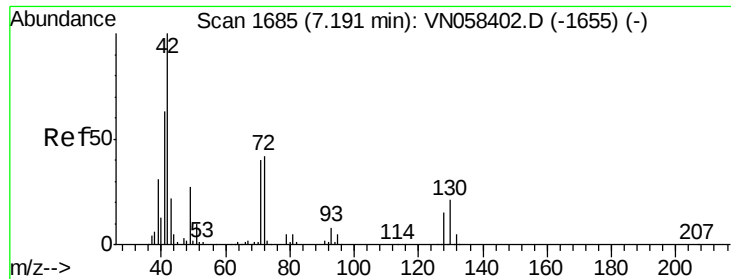
Delta R.T. 0.00 min

Lab File: VN058650.D

Acq: 9 Oct 2019 19:10

Tgt Ion:	49	Resp:	63913
Ion	Ratio	Lower	Upper
49	100		
129	1.1	0.0	3.4
130	69.4	56.3	84.5





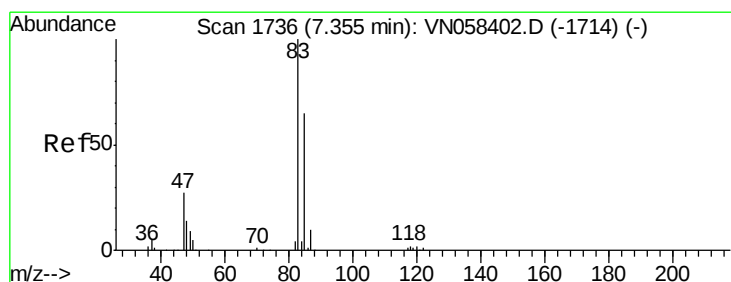
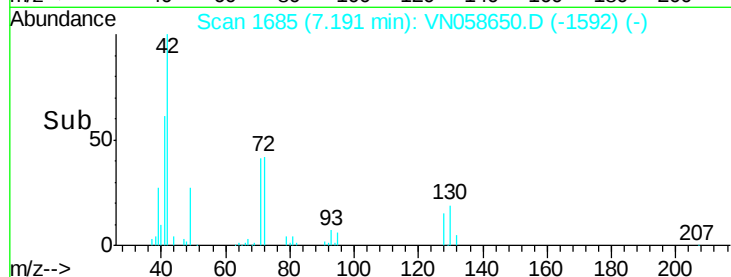
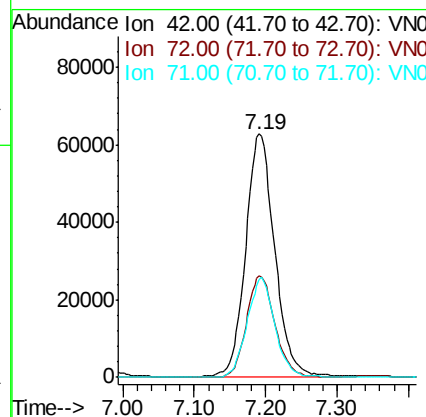
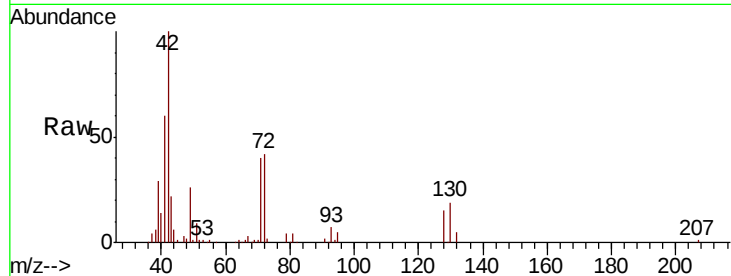
#29
Tetrahydrofuran
Concen: 94.074 ug/l
RT: 7.19 min Scan# 1685
Delta R.T. 0.00 min
Lab File: VN058650.D
Acq: 9 Oct 2019 19:10

Instrument :
MSVOA_N
ClientSampleId :
VN1010WBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	40.4	33.7	50.5
71	38.9	31.8	47.6

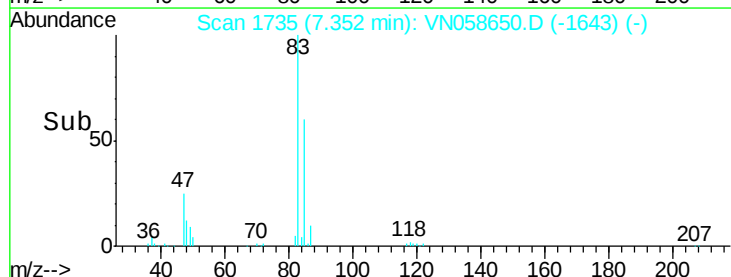
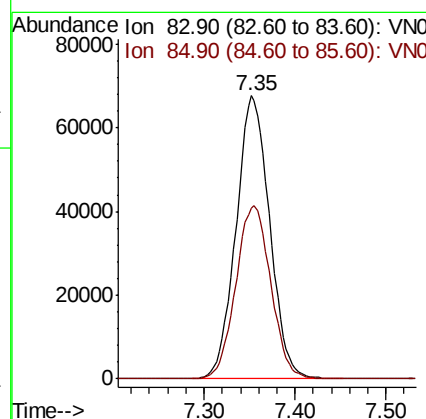
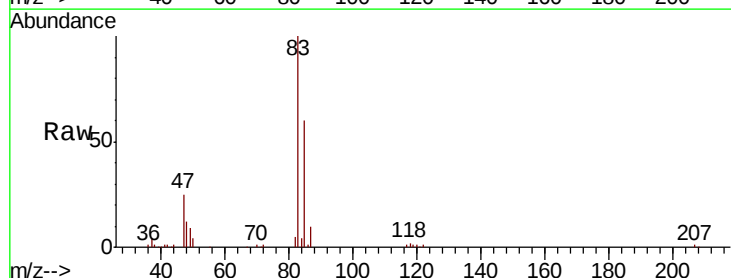
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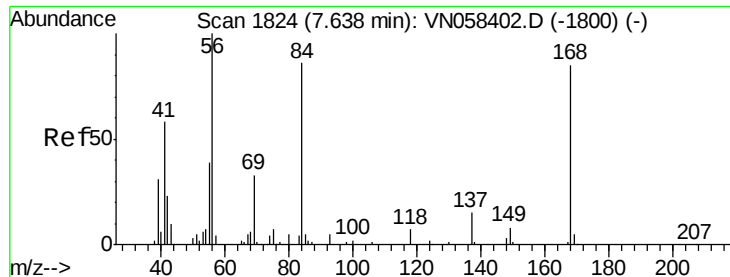
MMDadoda
10/10/2019 3:20:37 PM



#30
Chloroform
Concen: 18.746 ug/l
RT: 7.35 min Scan# 1735
Delta R.T. -0.00 min
Lab File: VN058650.D
Acq: 9 Oct 2019 19:10

Tgt Ion	Ratio	Lower	Upper
83	100		
85	60.3	52.0	78.0





#31

Cyclohexane

Concen: 16.844 ug/l

RT: 7.64 min Scan# 1824

Delta R.T. 0.00 min

Lab File: VN058650.D

Acq: 9 Oct 2019 19:10

Instrument :

MSVOA_N

ClientSampleId :

VN1010WBS01

Tot Ion: 56 Resp: 149423

Ion Ratio Lower Upper

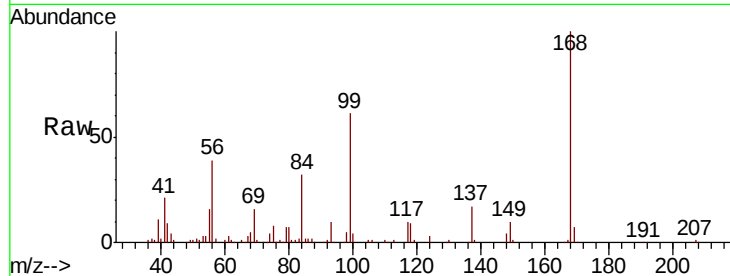
56 100

69 40.2 26.2 39.4#

84 80.8 67.6 101.4

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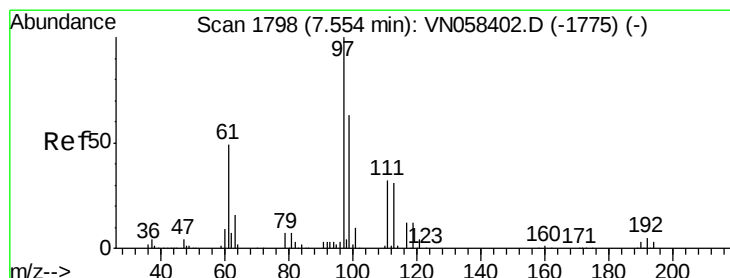
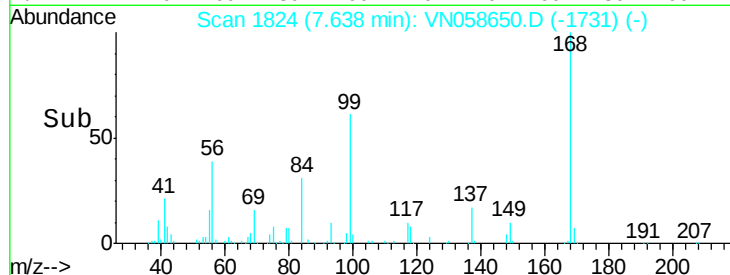
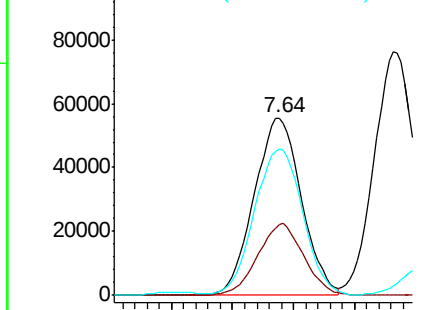


Abundance

Ion 56.00 (55.70 to 56.70): VNC

Ion 69.00 (68.70 to 69.70): VNC

Ion 84.00 (83.70 to 84.70): VNC



#32

1,1,1-Trichloroethane

Concen: 19.590 ug/l

RT: 7.55 min Scan# 1797

Delta R.T. -0.00 min

Lab File: VN058650.D

Acq: 9 Oct 2019 19:10

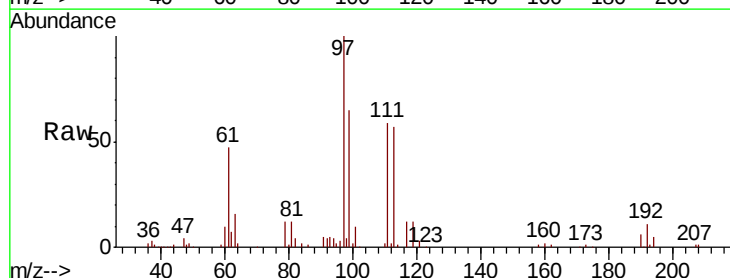
Tgt Ion: 97 Resp: 148668

Ion Ratio Lower Upper

97 100

99 64.2 51.1 76.7

61 48.2 39.2 58.8

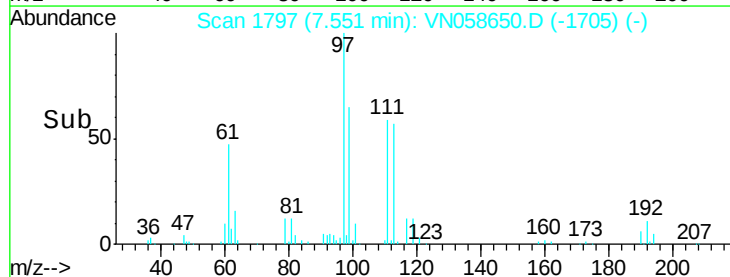
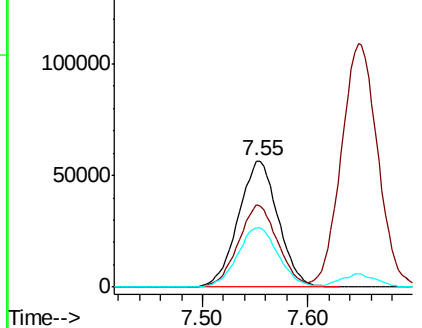


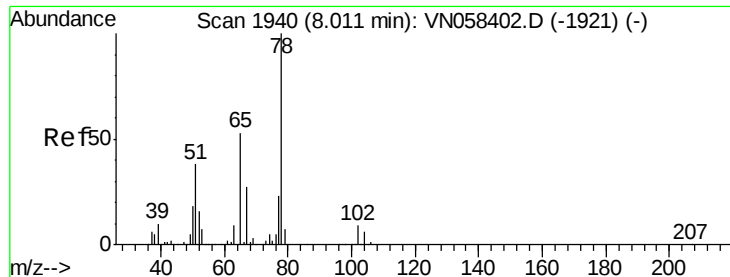
Abundance

Ion 96.90 (96.60 to 97.60): VNC

Ion 98.90 (98.60 to 99.60): VNC

Ion 60.90 (60.60 to 61.60): VNC





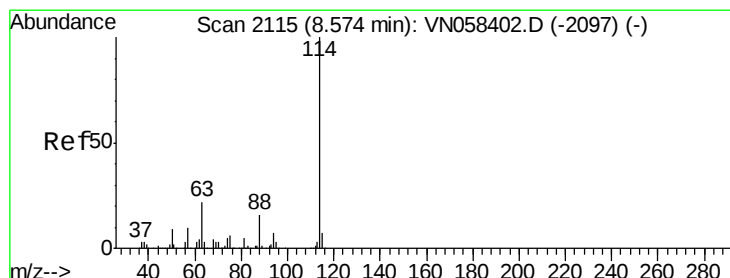
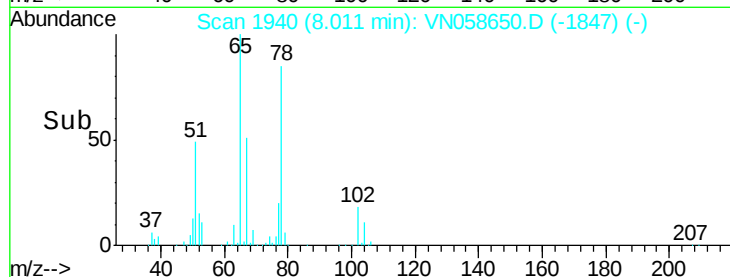
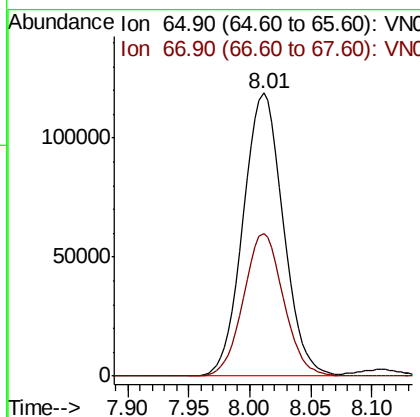
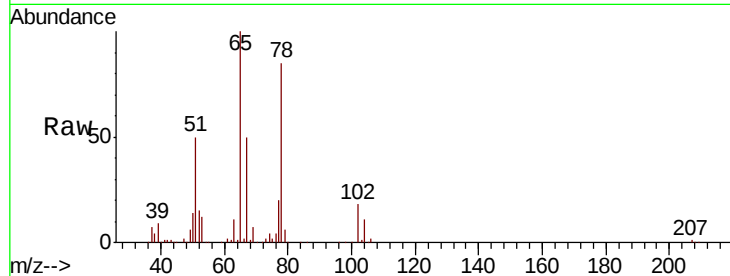
#33
 1,2-Dichloroethane-d4
 Concen: 42.240 ug/l
 RT: 8.01 min Scan# 1940
 Delta R.T. 0.00 min
 Lab File: VN058650.D
 Acq: 9 Oct 2019 19:10

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1010WBS01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	270760		
67	50.4	0.0	102.4	

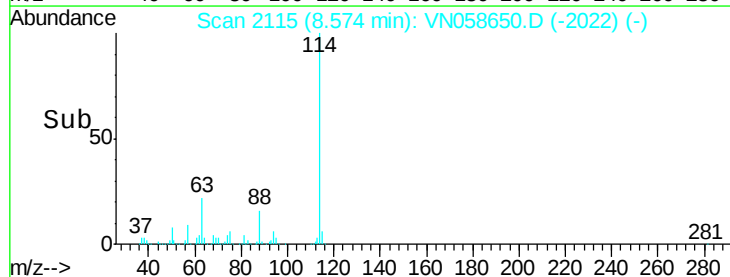
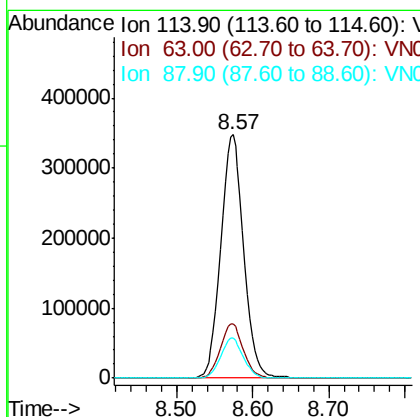
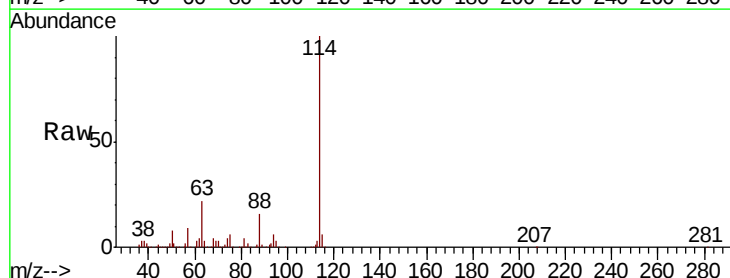
Manual Integrations
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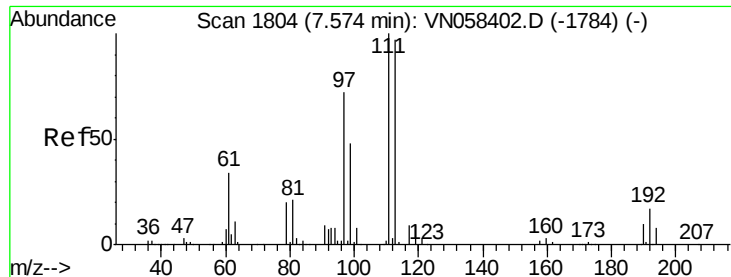
MMDadoda
 10/10/2019 3:20:37 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN058650.D
 Acq: 9 Oct 2019 19:10

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	726150		
63	22.3	0.0	45.0	
88	16.3	0.0	32.2	





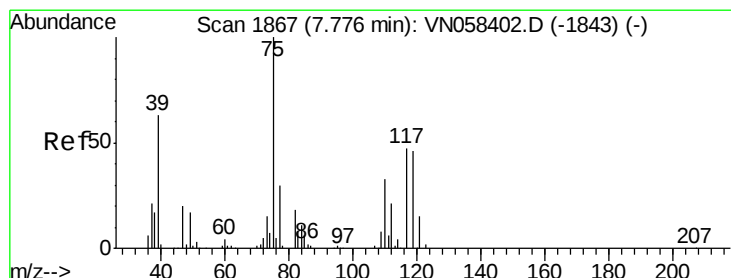
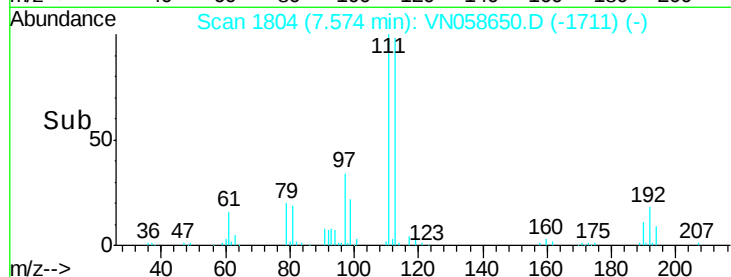
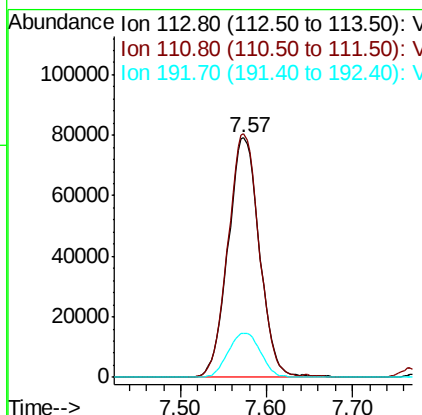
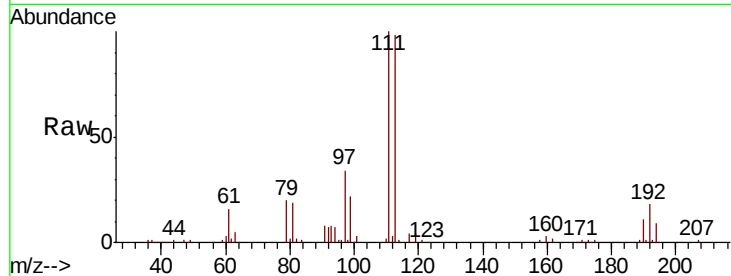
#35
Dibromofluoromethane
Concen: 45.126 ug/l
RT: 7.57 min Scan# 1804
Delta R.T. 0.00 min
Lab File: VN058650.D
Acq: 9 Oct 2019 19:10

Instrument :
MSVOA_N
ClientSampleId :
VN1010WBS01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	200834		
111	100.7	83.4	125.2	
192	19.1	14.9	22.3	

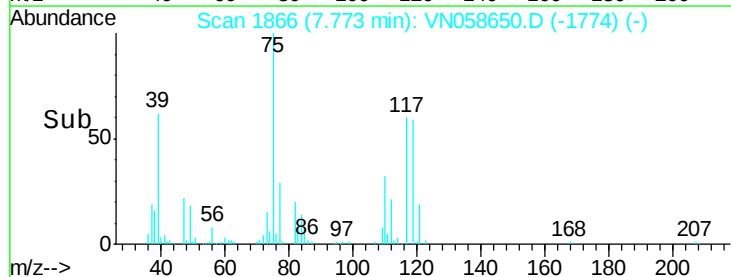
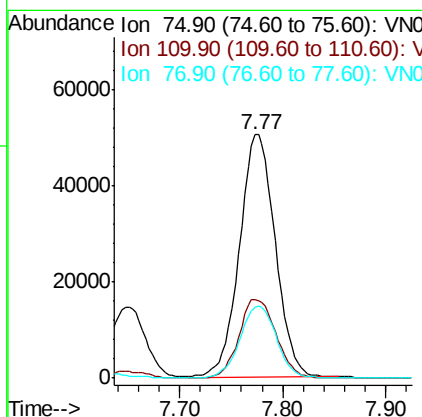
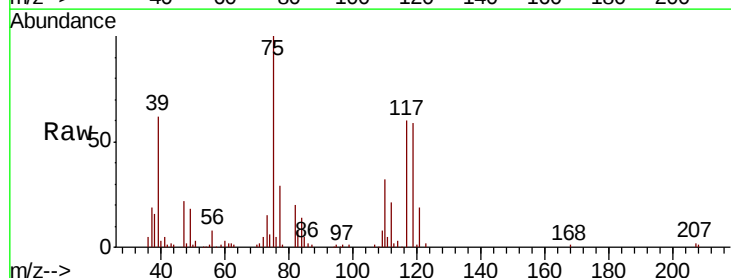
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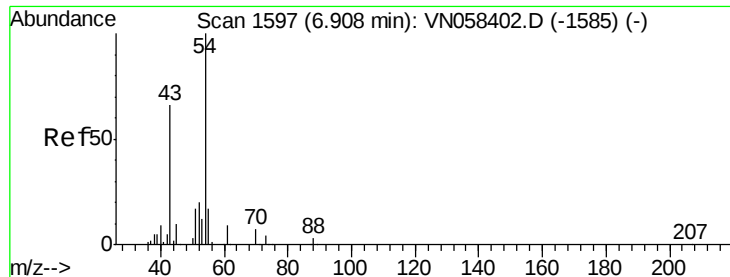
MMDadoda
10/10/2019 3:20:37 PM



#36
1,1-Dichloropropene
Concen: 17.582 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. -0.00 min
Lab File: VN058650.D
Acq: 9 Oct 2019 19:10

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	122078		
110	33.6	16.4	49.2	
77	30.4	24.3	36.5	





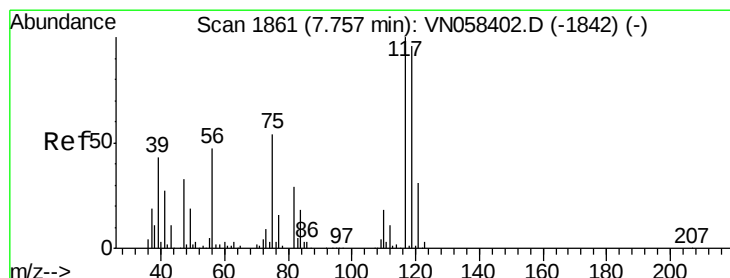
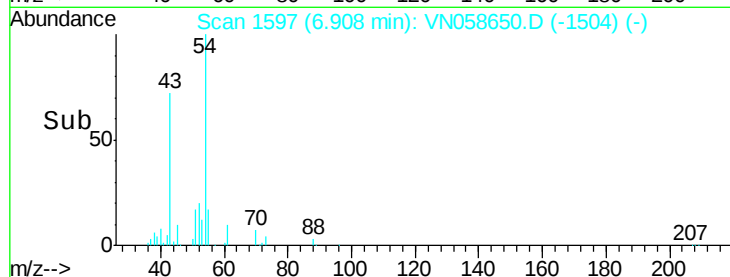
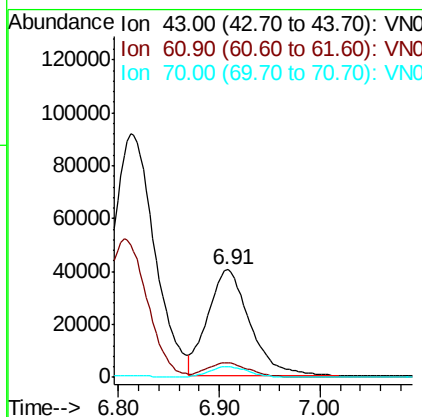
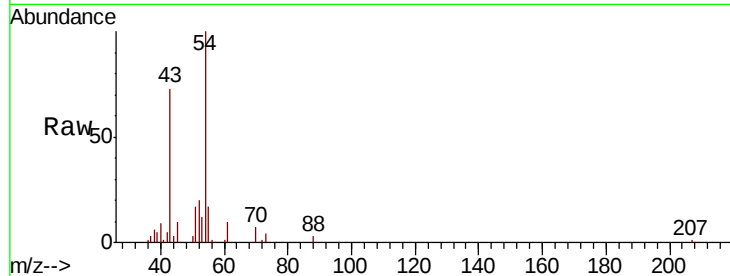
#37
Ethyl Acetate
Concen: 19.818 ug/l
RT: 6.91 min Scan# 1597
Delta R.T. 0.00 min
Lab File: VN058650.D
Acq: 9 Oct 2019 19:10

Instrument :
MSVOA_N
ClientSampleId :
VN1010WBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	12.4	10.5	15.7
70	9.5	7.8	11.6

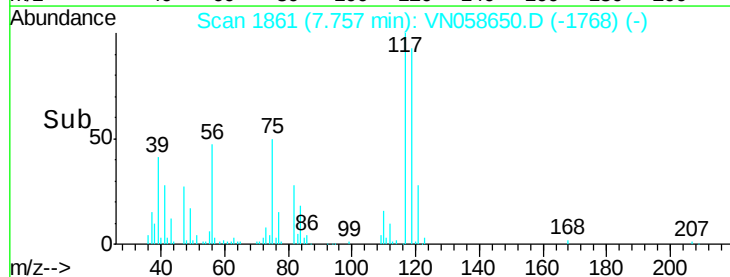
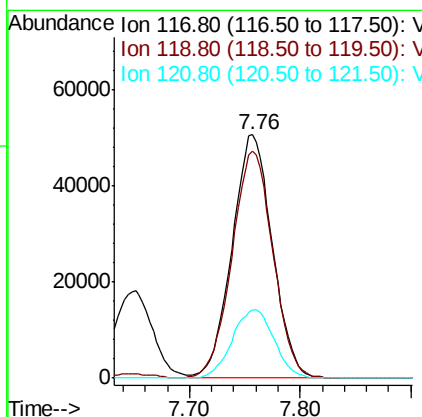
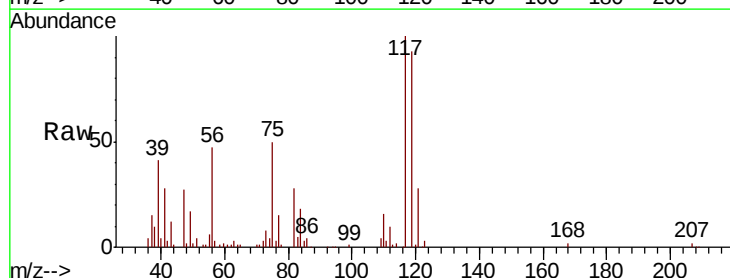
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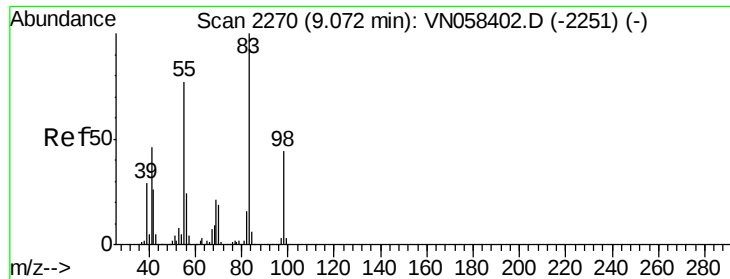
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#38
Carbon Tetrachloride
Concen: 20.447 ug/l
RT: 7.76 min Scan# 1861
Delta R.T. 0.00 min
Lab File: VN058650.D
Acq: 9 Oct 2019 19:10

Tgt Ion	Ratio	Lower	Upper
117	100		
119	93.5	76.6	115.0
121	27.8	24.7	37.1





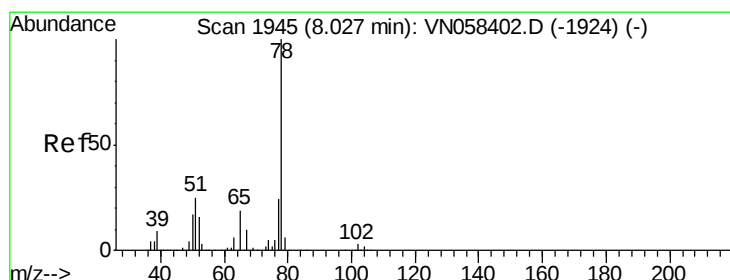
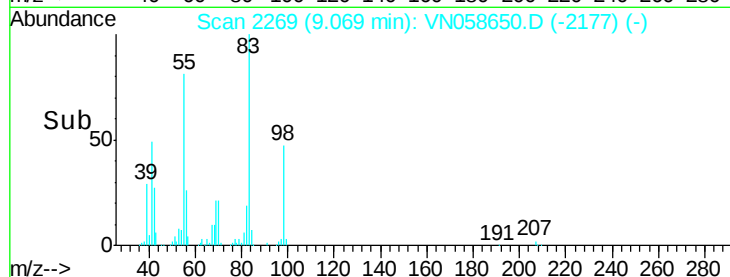
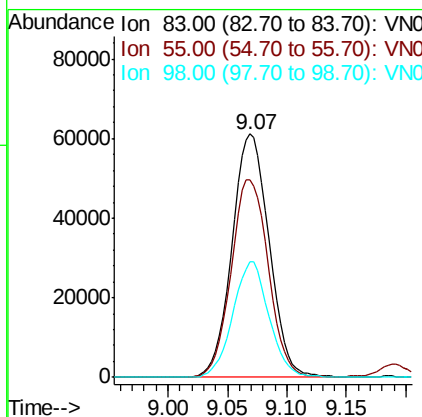
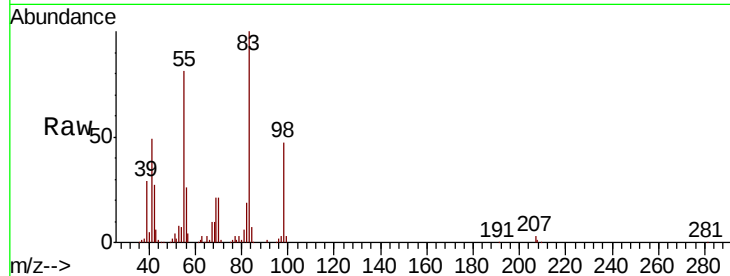
#39
Methvlcvclohexane
Concen: 16.311 ug/l
RT: 9.07 min Scan# 2269
Delta R.T. -0.00 min
Lab File: VN058650.D
Acq: 9 Oct 2019 19:10

Instrument :
MSVOA_N
ClientSampleId :
VN1010WBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	81.0	61.8	92.6
98	47.3	35.4	53.0

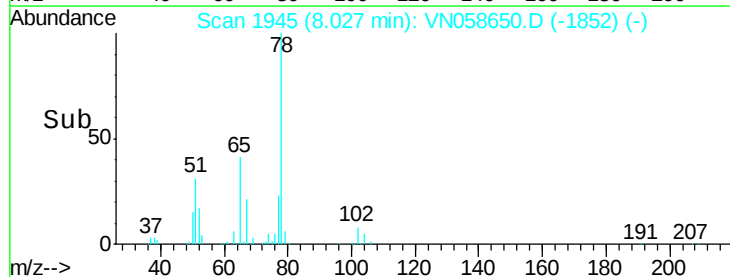
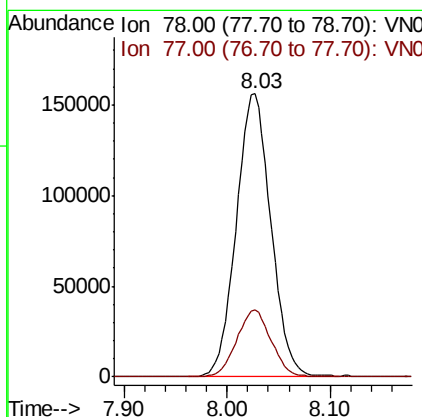
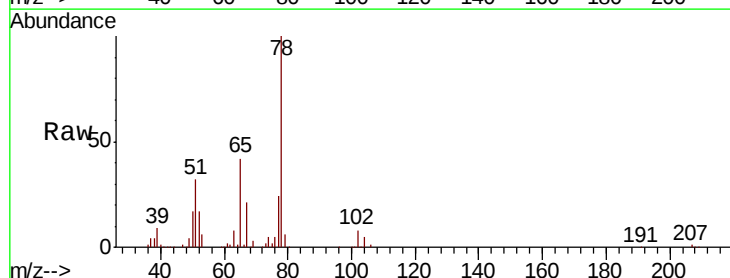
Manual Integrations
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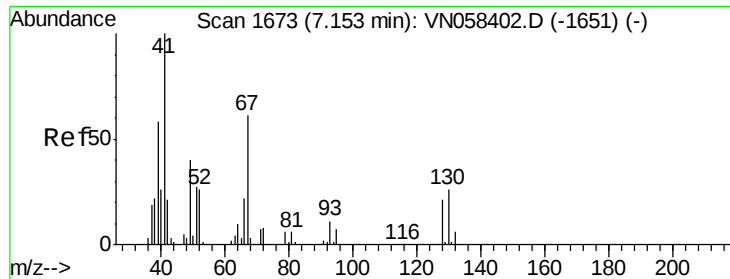
MMDadoda
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#40
Benzene
Concen: 18.294 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN058650.D
Acq: 9 Oct 2019 19:10

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.9	28.3





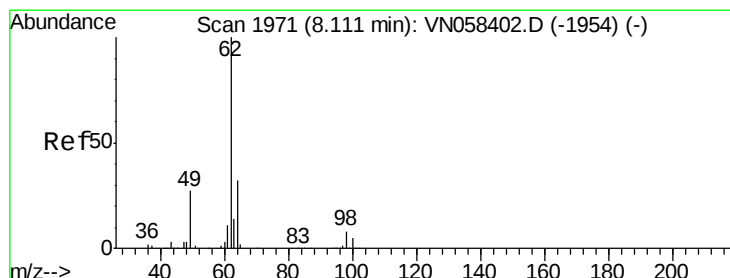
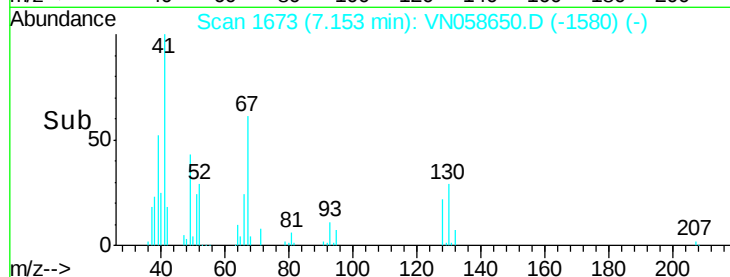
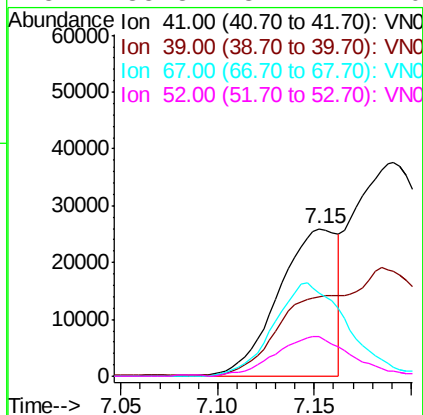
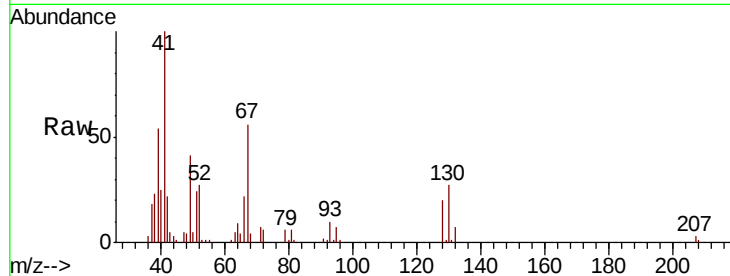
#41
Methacrylonitrile
Concen: 20.274 ug/l
RT: 7.15 min Scan# 1673
Delta R.T. 0.00 min
Lab File: VN058650.D
Acq: 9 Oct 2019 19:10

Instrument :
MSVOA_N
ClientSampleId :
VN1010WBS01

Tot Ion:	41	Resp:	54908
Ion	Ratio	Lower	Upper
41	100		
39	55.6	50.2	75.4
67	81.1	70.2	105.4
52	35.8	31.4	47.0

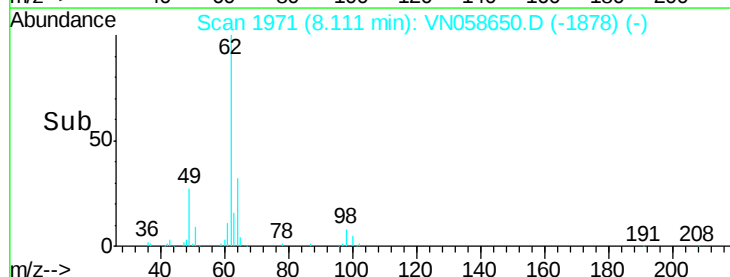
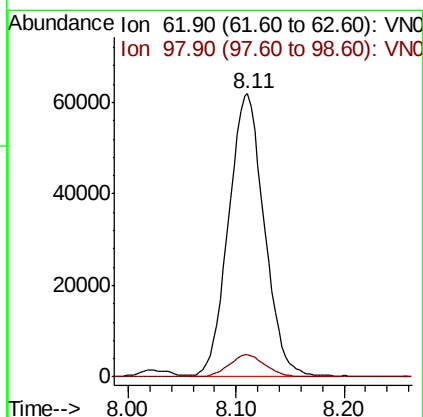
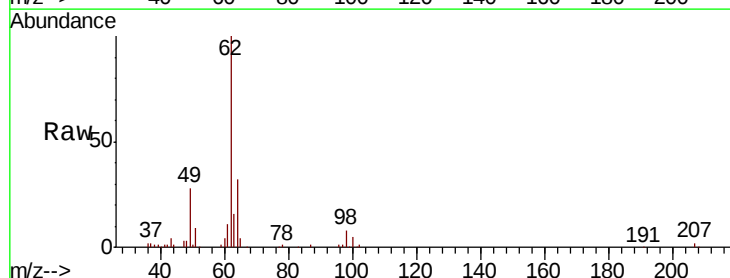
Manual Integrations
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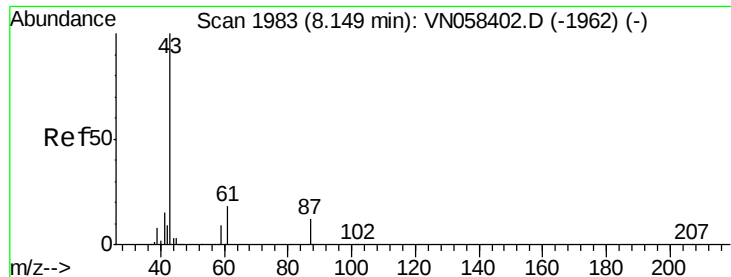
MMDadoda
10/10/2019 3:20:37 PM



#42
1,2-Dichloroethane
Concen: 18.282 ug/l
RT: 8.11 min Scan# 1971
Delta R.T. 0.00 min
Lab File: VN058650.D
Acq: 9 Oct 2019 19:10

Tgt Ion:	62	Resp:	141958
Ion	Ratio	Lower	Upper
62	100		
98	7.9	0.0	15.6





#43

Isopropyl Acetate

Concen: 17.534 ug/l

RT: 8.15 min Scan# 1983

Delta R.T. 0.00 min

Lab File: VN058650.D

Acq: 9 Oct 2019 19:10

Instrument :

MSVOA_N

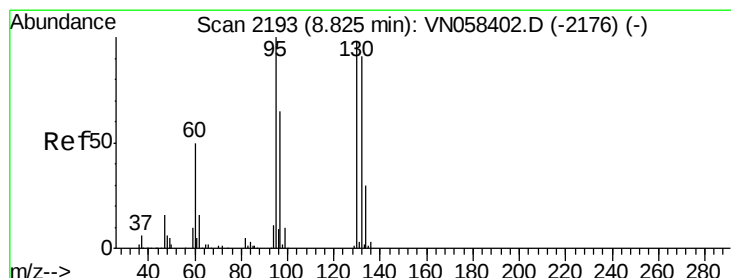
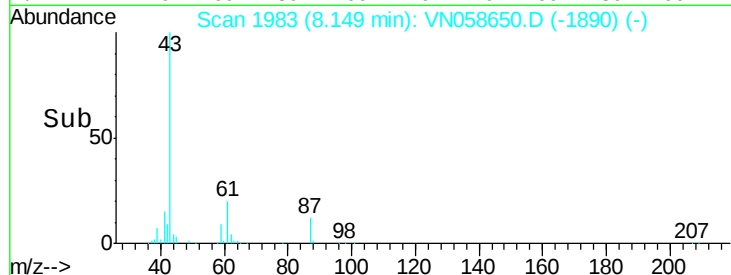
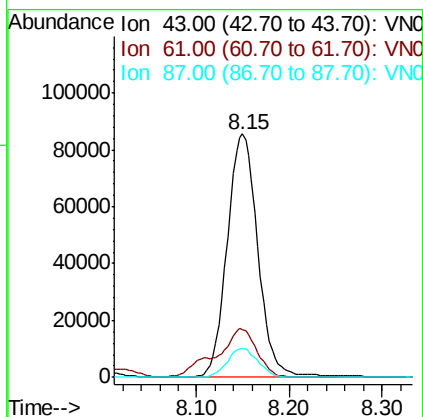
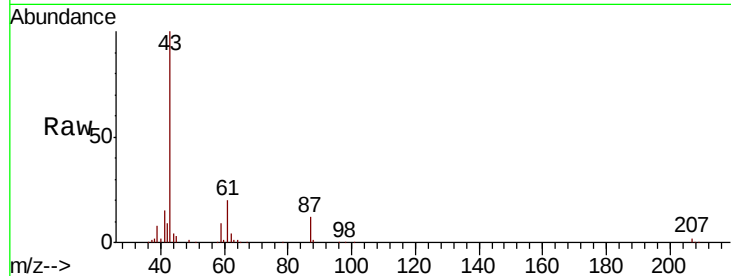
ClientSampleId :

VN1010WBS01

Tot Ion:	43	Resp:	194105
Ion Ratio		Lower	Upper
43	100		
61	19.6	14.8	22.2
87	11.9	9.7	14.5

Manual Integrations
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#44

Trichloroethene

Concen: 18.619 ug/l

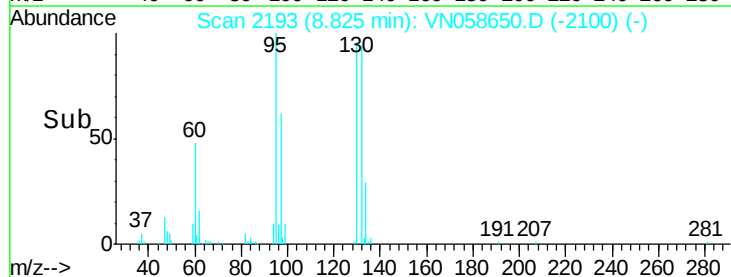
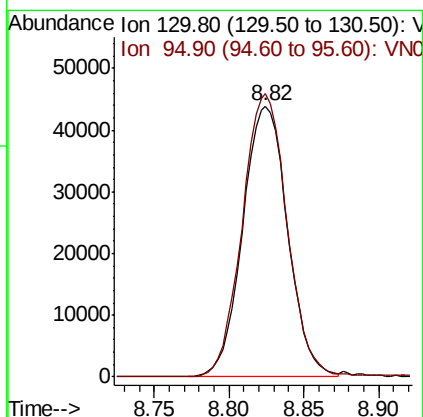
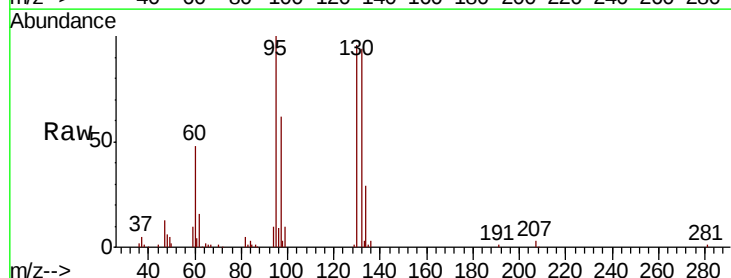
RT: 8.82 min Scan# 2193

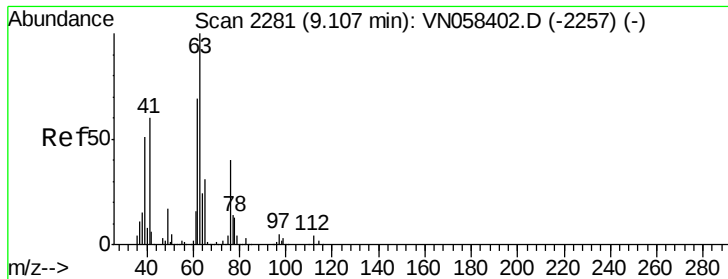
Delta R.T. 0.00 min

Lab File: VN058650.D

Acq: 9 Oct 2019 19:10

Tgt Ion:	130	Resp:	91759
Ion Ratio		Lower	Upper
130	100		
95	104.5	0.0	204.2





#45

1,2-Dichloropropane

Concen: 19.111 ug/l

RT: 9.11 min Scan# 2281

Delta R.T. 0.00 min

Lab File: VN058650.D

Acq: 9 Oct 2019 19:10

Instrument :

MSVOA_N

ClientSampleId :

VN1010WBS01

Tot Ion: 63 Resp: 102298

Ion Ratio Lower Upper

63 100

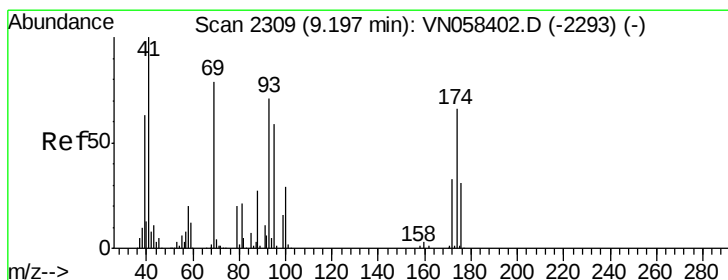
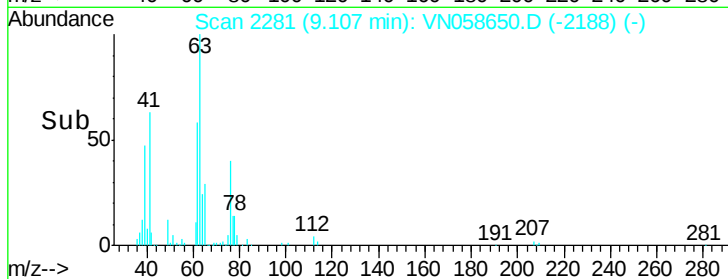
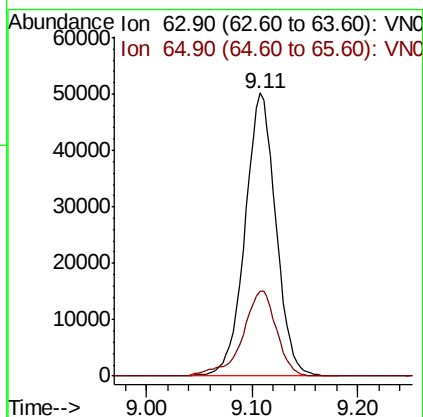
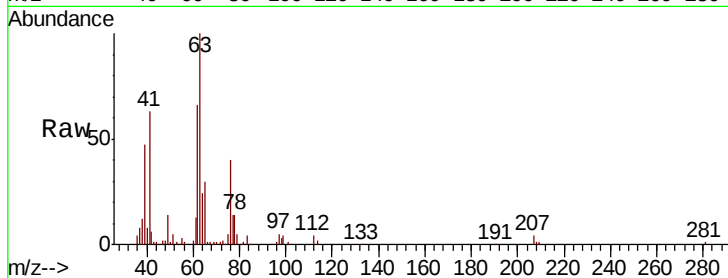
65 30.0 25.0 37.4

Manual Integrations

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#46

Dibromomethane

Concen: 18.582 ug/l

RT: 9.20 min Scan# 2309

Delta R.T. 0.00 min

Lab File: VN058650.D

Acq: 9 Oct 2019 19:10

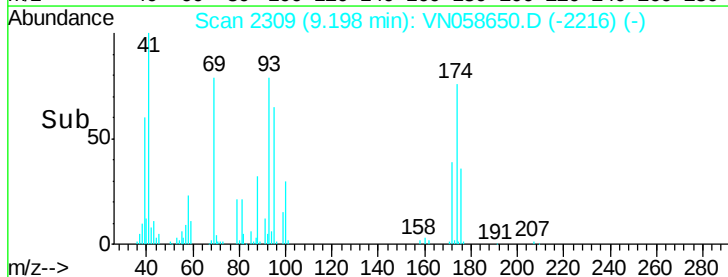
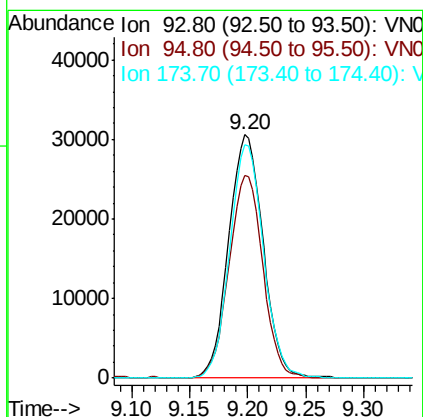
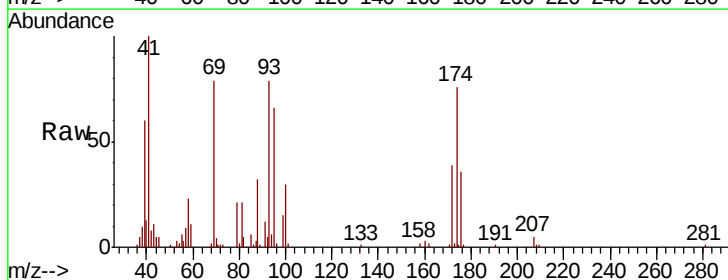
Tgt Ion: 93 Resp: 62989

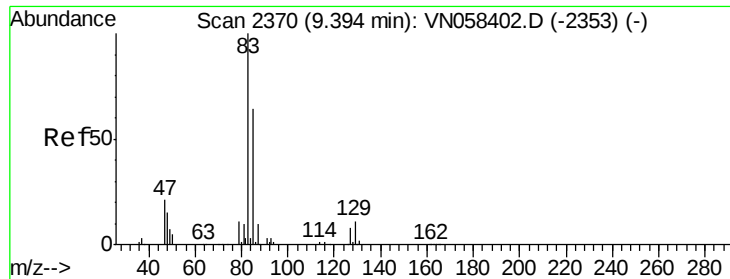
Ion Ratio Lower Upper

93 100

95 81.7 67.0 100.4

174 93.8 74.2 111.2





#47

Bromodichloromethane

Concen: 20.382 ug/l

RT: 9.39 min Scan# 2370

Delta R.T. 0.00 min

Lab File: VN058650.D

Acq: 9 Oct 2019 19:10

Instrument :

MSVOA_N

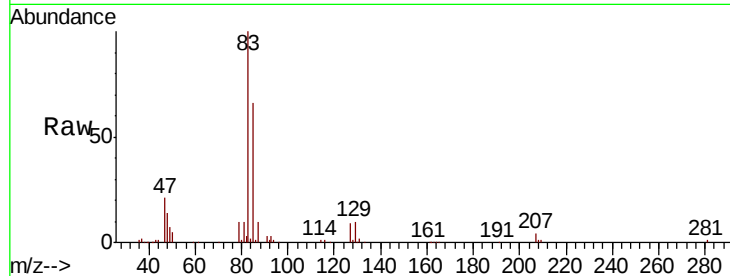
ClientSampleId :

VN1010WBS01

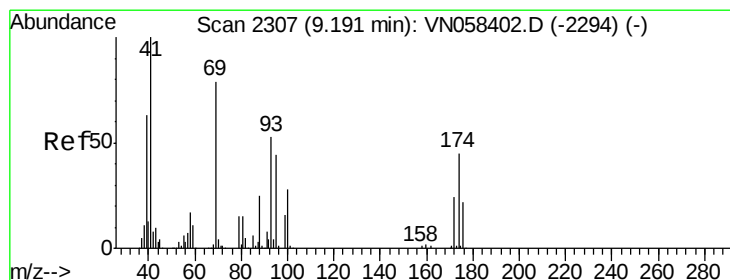
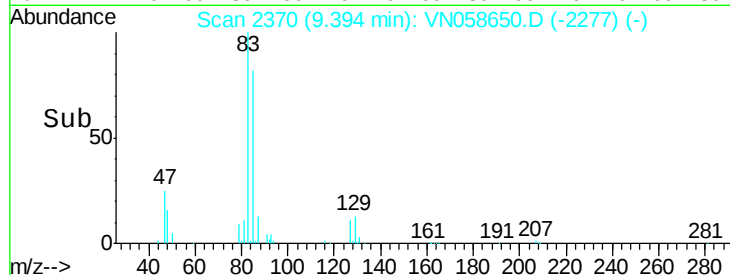
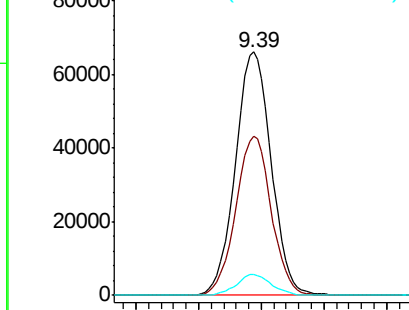
Tot Ion:	83	Resp:	130908
Ion Ratio	Lower	Upper	
83	100		
85	65.6	51.2	76.8
127	8.8	6.3	9.5

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



#48

Methyl methacrylate

Concen: 17.998 ug/l

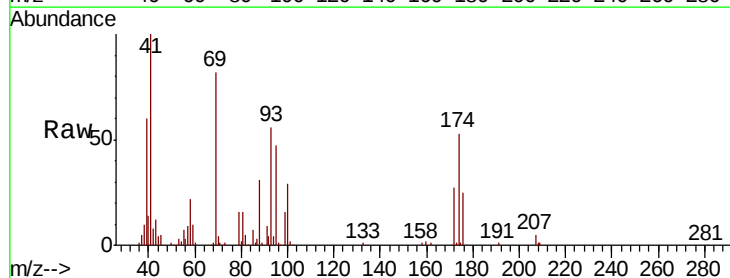
RT: 9.19 min Scan# 2307

Delta R.T. 0.00 min

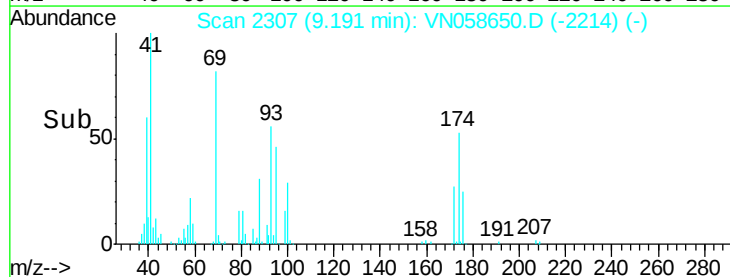
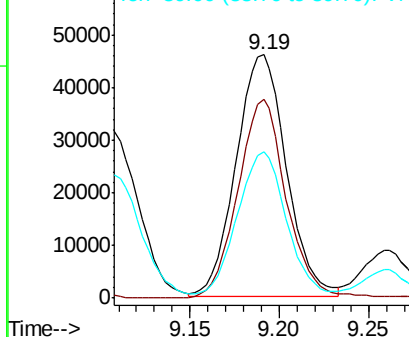
Lab File: VN058650.D

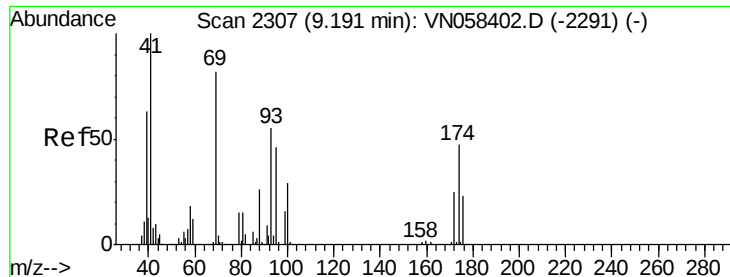
Acq: 9 Oct 2019 19:10

Tgt Ion:	41	Resp:	90720
Ion Ratio	Lower	Upper	
41	100		
69	79.0	64.7	97.1
39	59.0	52.9	79.3



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





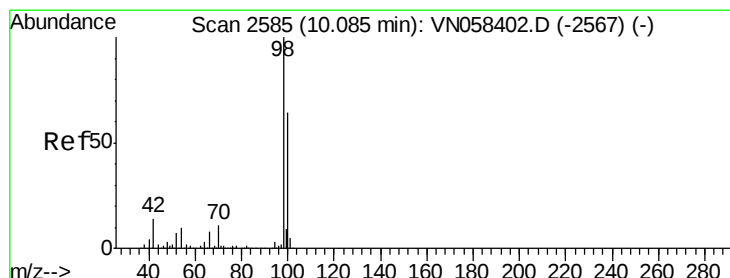
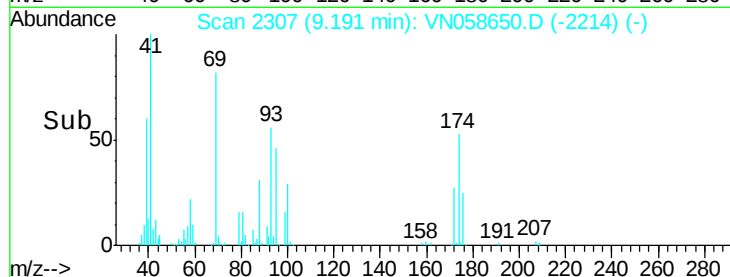
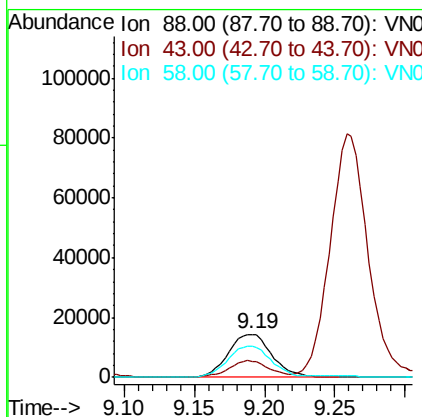
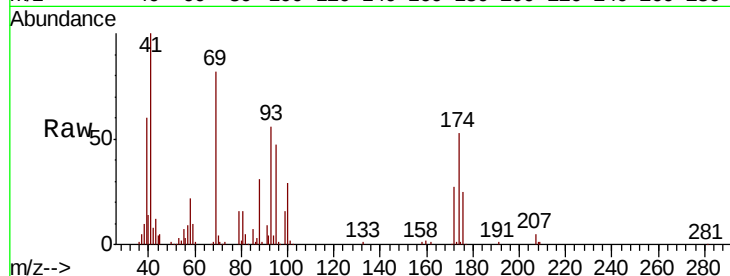
#49
1,4-Dioxane
Concen: 461.628 ug/l
RT: 9.19 min Scan# 2307
Delta R.T. 0.00 min
Lab File: VN058650.D
Acq: 9 Oct 2019 19:10

Instrument :
MSVOA_N
ClientSampleId :
VN1010WBS01

Tot Ion	Ratio	Lower	Upper
88	100		
43	34.1	31.1	46.7
58	71.6	58.1	87.1

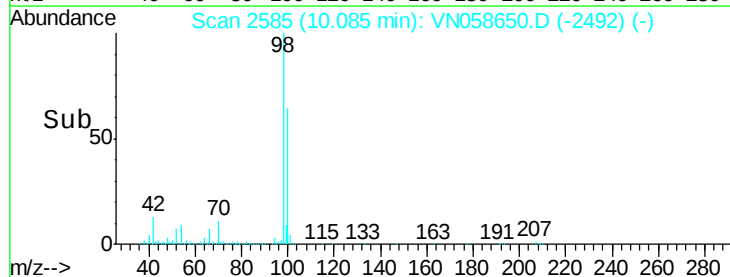
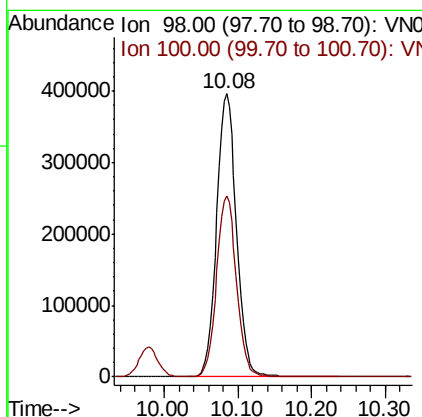
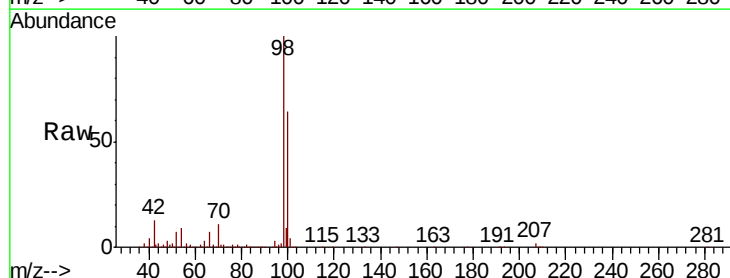
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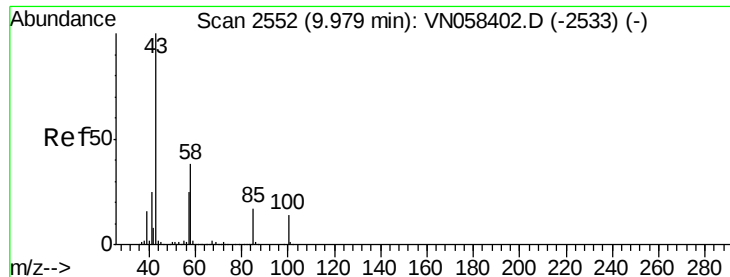
MMDadoda
10/10/2019 3:20:37 PM



#50
Toluene-d8
Concen: 42.321 ug/l
RT: 10.08 min Scan# 2585
Delta R.T. 0.00 min
Lab File: VN058650.D
Acq: 9 Oct 2019 19:10

Tgt Ion	Ratio	Lower	Upper
98	100		
100	63.7	51.0	76.6





#51

4-Methyl-2-Pentanone

Concen: 99.068 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VN058650.D

Acq: 9 Oct 2019 19:10

Instrument :

MSVOA_N

ClientSampleId :

VN1010WBS01

Tot Ion: 43 Resp: 563325

Ion Ratio Lower Upper

43 100

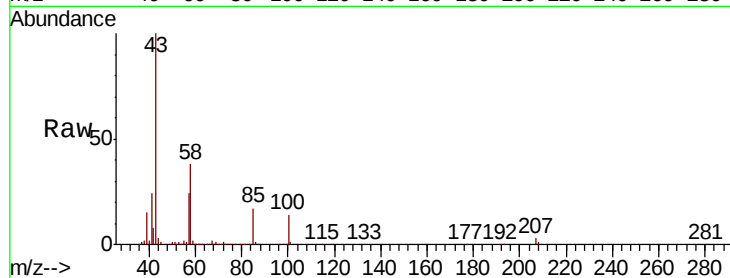
58 37.3 30.2 45.2

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

300000

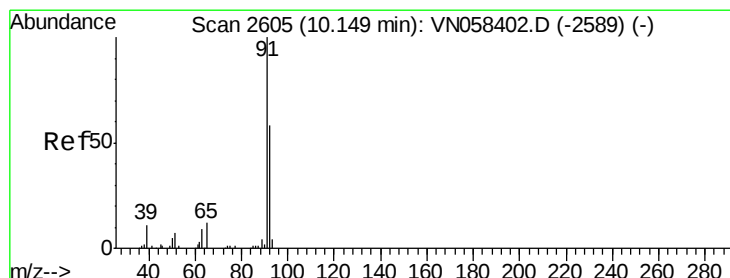
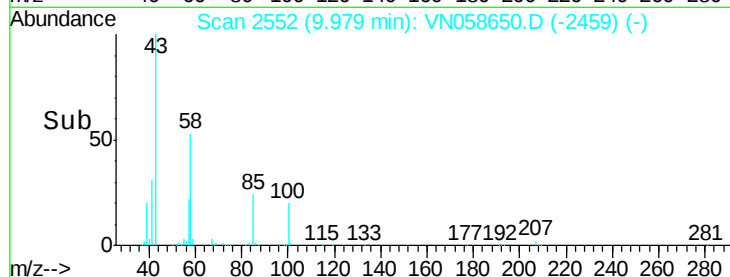
200000

100000

0

9.90 10.00

Time-->



#52

Toluene

Concen: 17.934 ug/l

RT: 10.15 min Scan# 2605

Delta R.T. 0.00 min

Lab File: VN058650.D

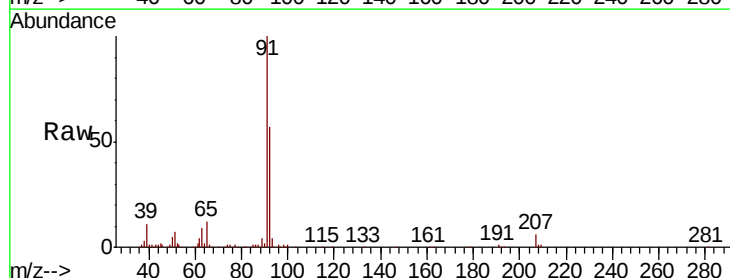
Acq: 9 Oct 2019 19:10

Tgt Ion: 92 Resp: 225297

Ion Ratio Lower Upper

92 100

91 175.2 140.2 210.4



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0

250000

200000

150000

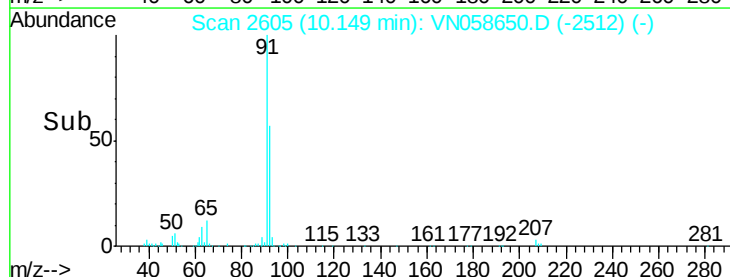
100000

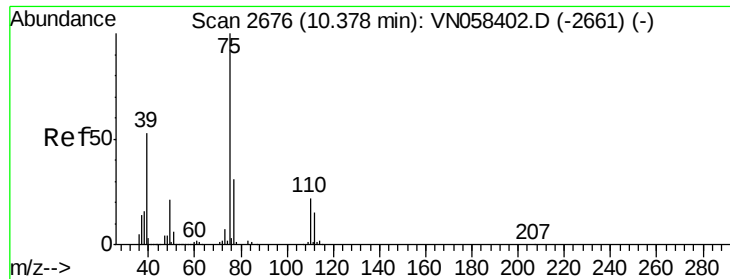
50000

0

10.10 10.20

Time-->





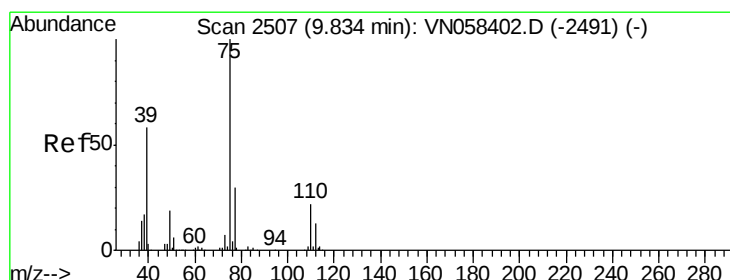
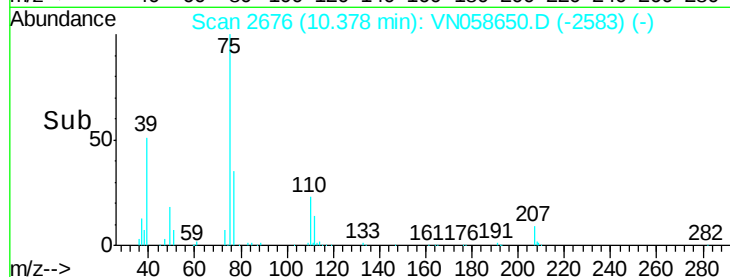
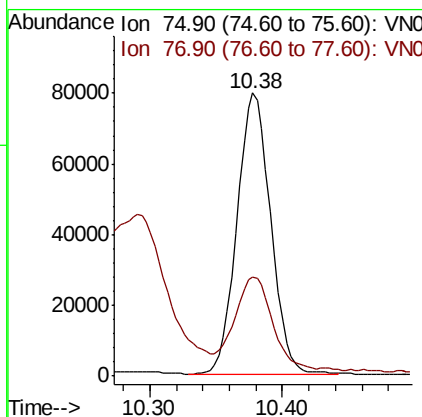
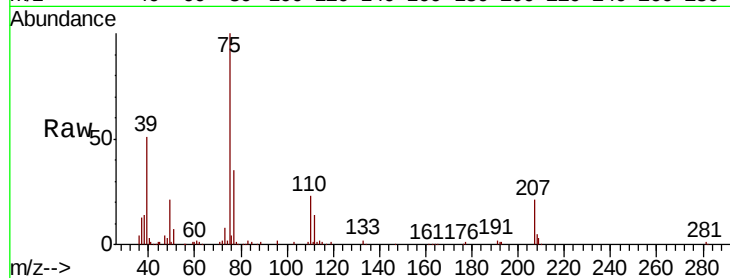
#53
t-1,3-Dichloropropene
Concen: 19.991 ug/l
RT: 10.38 min Scan# 2676
Delta R.T. 0.00 min
Lab File: VN058650.D
Acq: 9 Oct 2019 19:10

Instrument :
MSVOA_N
ClientSampleId :
VN1010WBS01

Tot Ion: 75 Resp: 139746
Ion Ratio Lower Upper
75 100
77 33.1 25.2 37.8

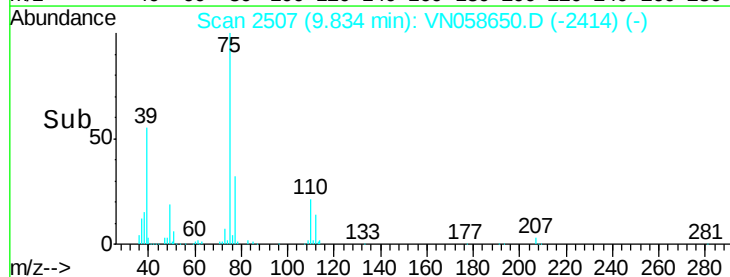
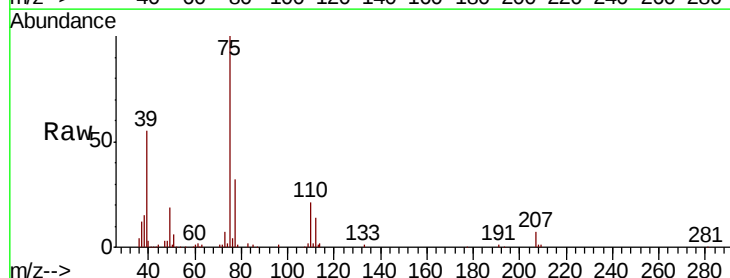
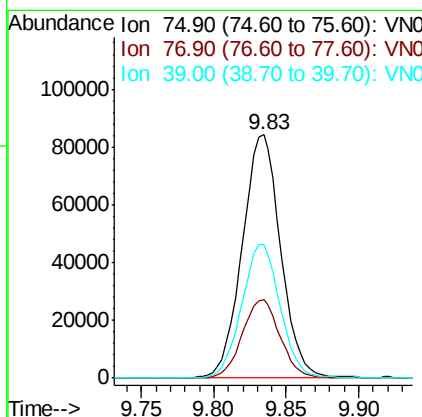
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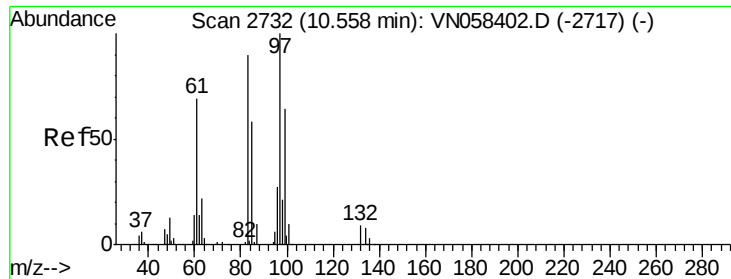
MMDadoda
10/10/2019 3:20:37 PM



#54
cis-1,3-Dichloropropene
Concen: 20.011 ug/l
RT: 9.83 min Scan# 2507
Delta R.T. 0.00 min
Lab File: VN058650.D
Acq: 9 Oct 2019 19:10

Tgt Ion: 75 Resp: 155286
Ion Ratio Lower Upper
75 100
77 32.1 24.2 36.4
39 54.5 46.4 69.6





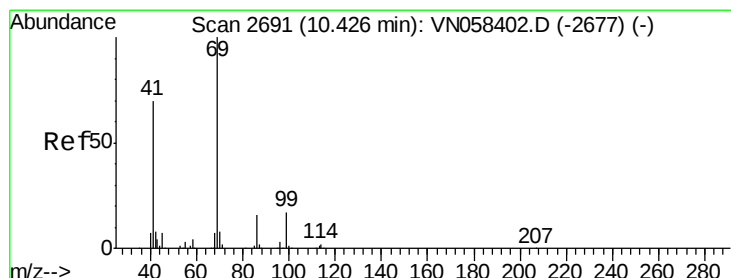
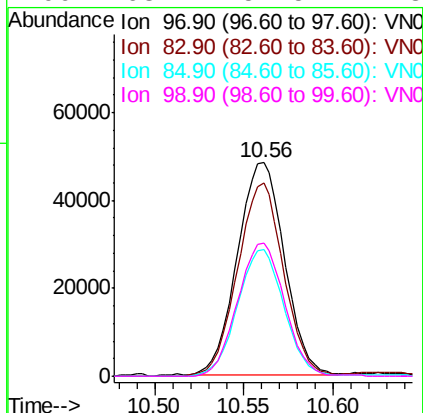
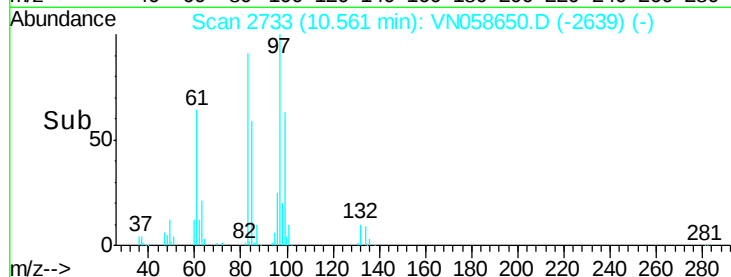
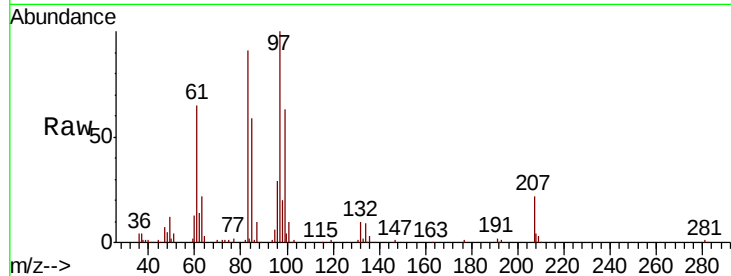
#55
 1,1,2-Trichloroethane
 Concen: 19.370 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. 0.00 min
 Lab File: VN058650.D
 Acq: 9 Oct 2019 19:10

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1010WBS01

Tot Ion:	97	Resp:	88605
Ion	Ratio	Lower	Upper
97	100		
83	90.8	71.8	107.6
85	59.9	46.6	69.8
99	63.1	51.5	77.3

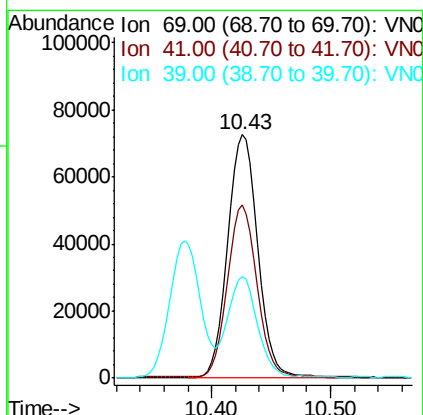
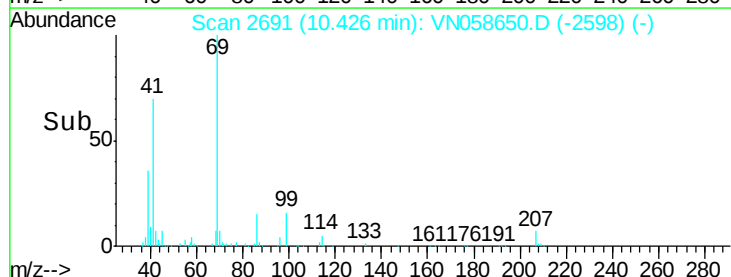
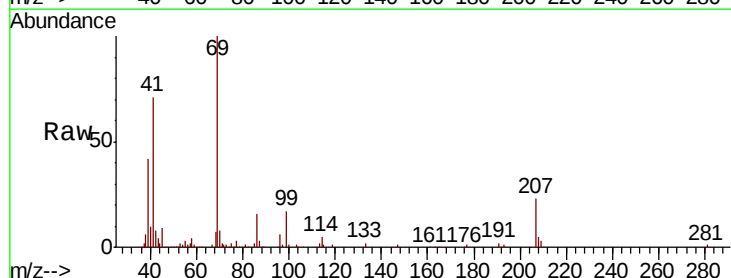
Manual Integrations
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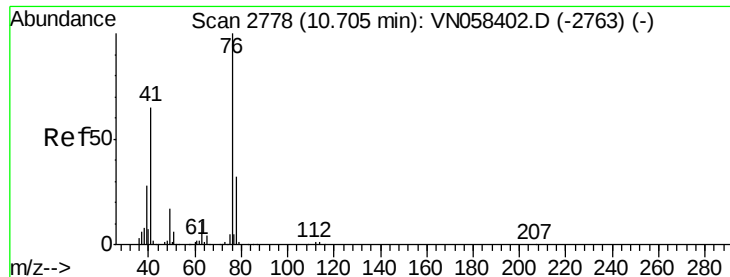
MMDadoda
 10/10/2019 3:20:37 PM



#56
 Ethyl methacrylate
 Concen: 18.428 ug/l
 RT: 10.43 min Scan# 2691
 Delta R.T. 0.00 min
 Lab File: VN058650.D
 Acq: 9 Oct 2019 19:10

Tgt Ion:	69	Resp:	127906
Ion	Ratio	Lower	Upper
69	100		
41	68.9	56.3	84.5
39	41.5	35.8	53.6





#57

1,3-Dichloropropane

Concen: 19.397 ug/l

RT: 10.71 min Scan# 2778

Delta R.T. 0.00 min

Lab File: VN058650.D

Acq: 9 Oct 2019 19:10

Instrument :

MSVOA_N

ClientSampleId :

VN1010WBS01

Tot Ion: 76 Resp: 158264

Ion Ratio Lower Upper

76 100

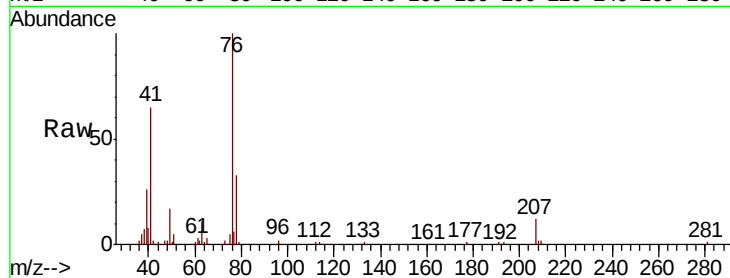
78 32.6 25.7 38.5

Manual Integrations

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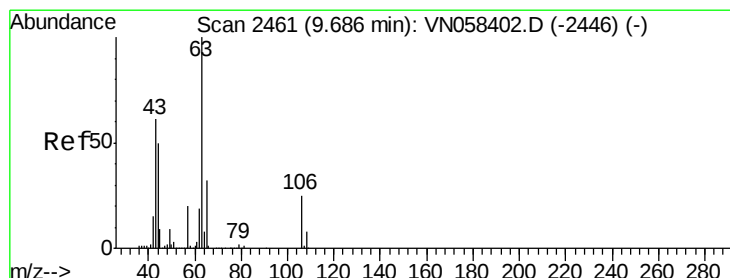
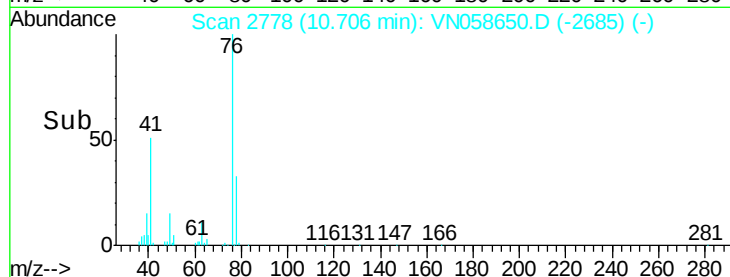
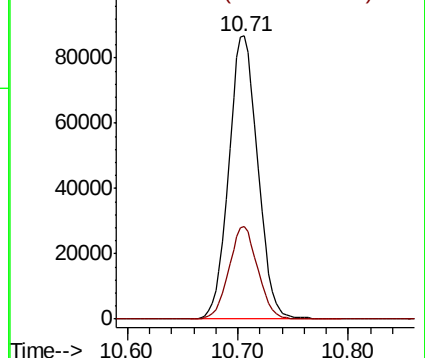
MMDadoda

10/10/2019 3:20:37 PM



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#58

2-Chloroethyl Vinyl ether

Concen: 108.123 ug/l

RT: 9.69 min Scan# 2461

Delta R.T. 0.00 min

Lab File: VN058650.D

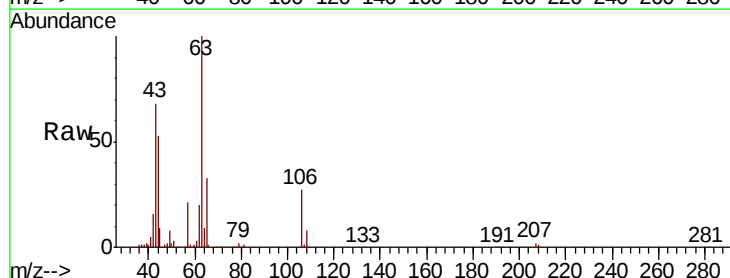
Acq: 9 Oct 2019 19:10

Tgt Ion: 63 Resp: 299250

Ion Ratio Lower Upper

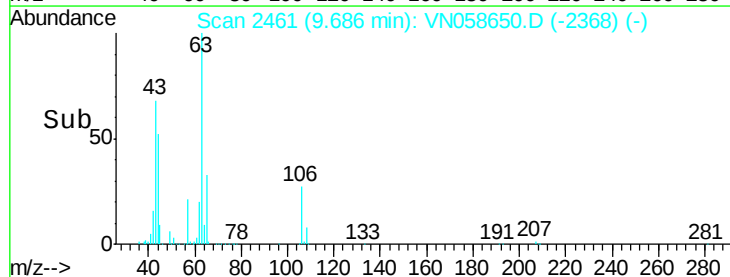
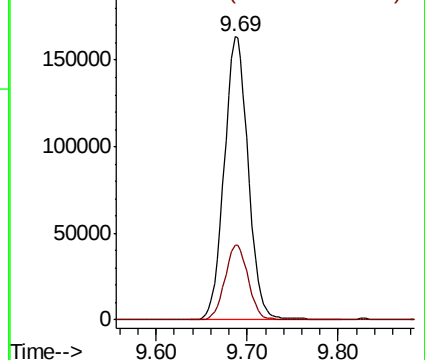
63 100

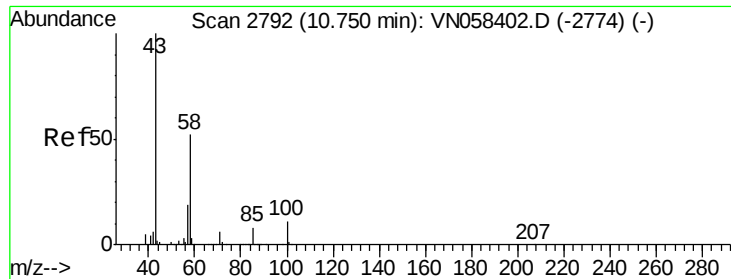
106 25.7 20.3 30.5



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V





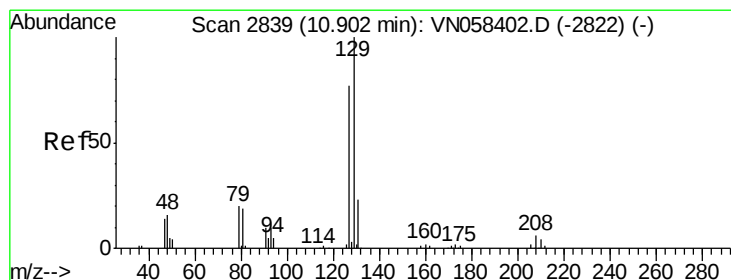
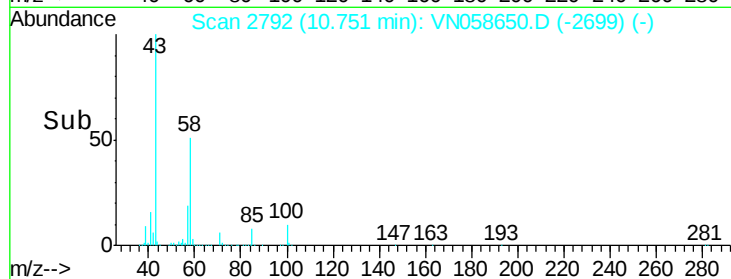
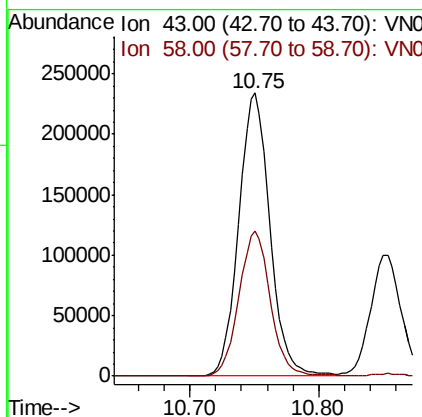
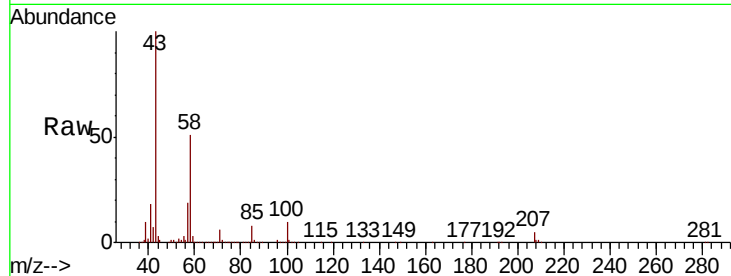
#59
2-Hexanone
Concen: 94.800 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN058650.D
Acq: 9 Oct 2019 19:10

Instrument :
MSVOA_N
ClientSampleId :
VN1010WBS01

Tot Ion	Ratio	Lower	Upper
43	100		
58	51.9	25.8	77.3

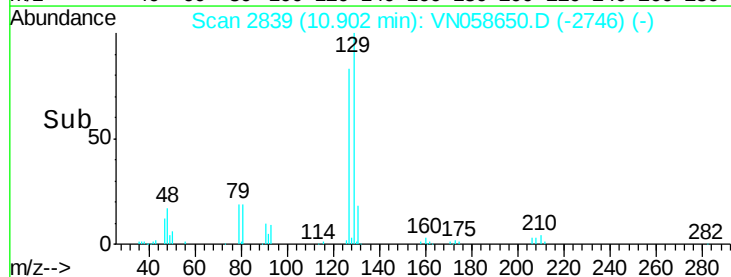
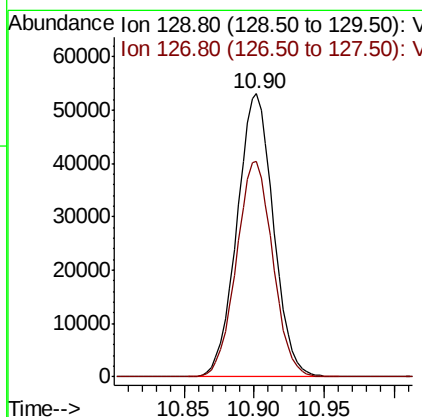
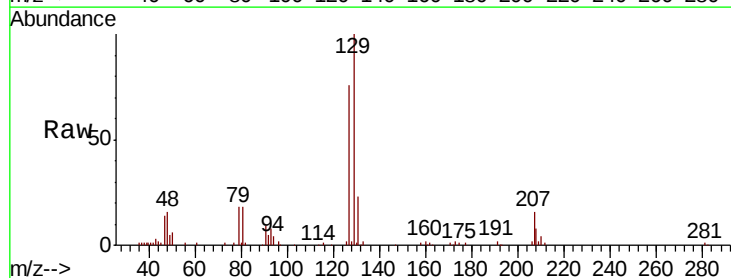
Manual Integrations
APPROVED

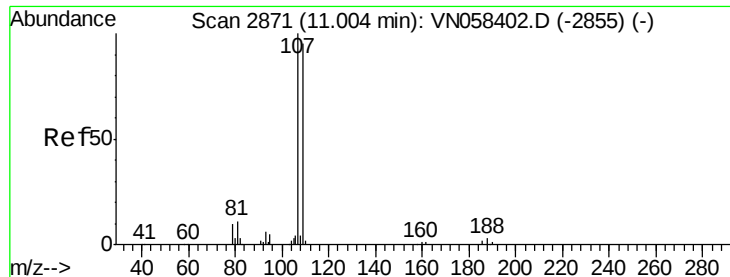
MMDadoda
10/10/2019 3:20:37 PM



#60
Dibromochloromethane
Concen: 19.955 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN058650.D
Acq: 9 Oct 2019 19:10

Tgt Ion	Ratio	Lower	Upper
129	100		
127	75.8	38.3	114.8





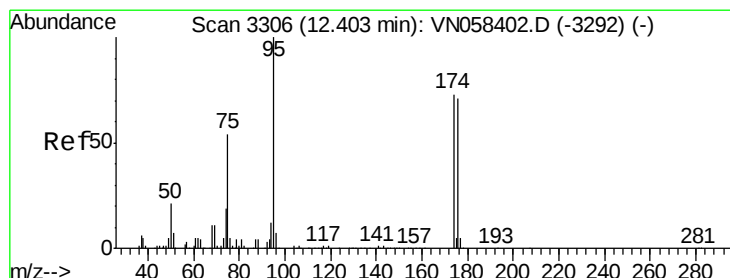
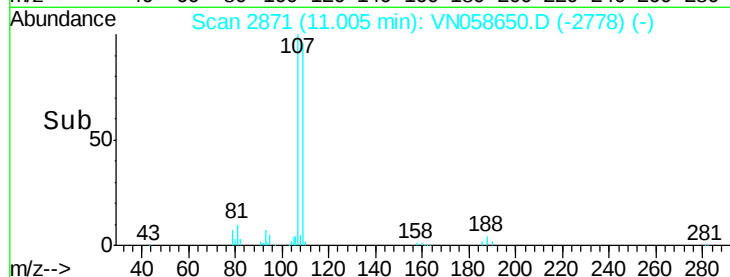
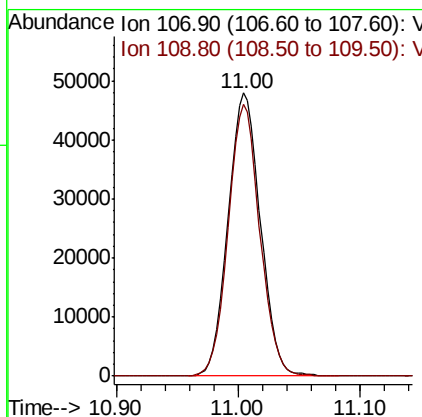
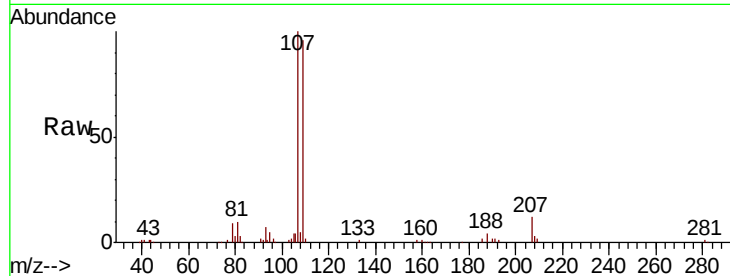
#61
 1,2-Dibromoethane
 Concen: 18.920 ug/l
 RT: 11.00 min Scan# 2871
 Delta R.T. 0.00 min
 Lab File: VN058650.D
 Acq: 9 Oct 2019 19:10

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1010WBS01

Tot Ion: 107 Resp: 88429
 Ion Ratio Lower Upper
 107 100
 109 94.0 75.3 112.9

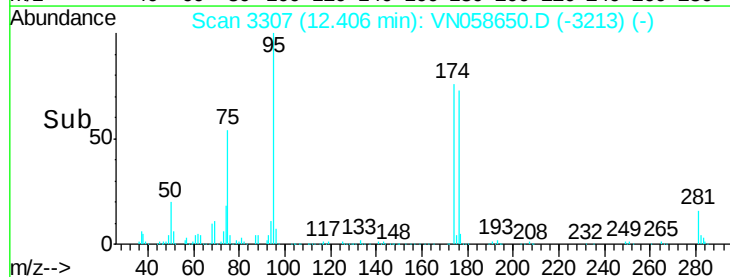
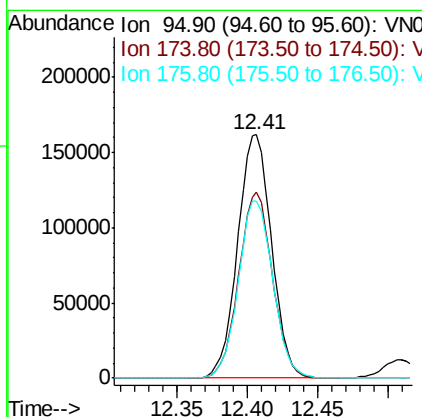
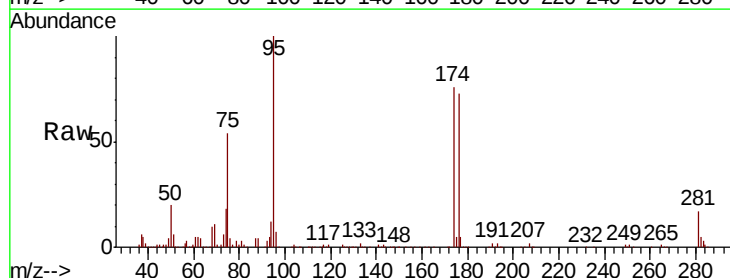
Manual Integrations
 APPROVED

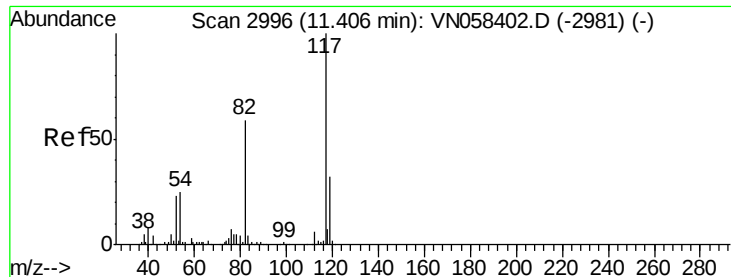
MMDadoda
 10/10/2019 3:20:37 PM



#62
 4-Bromofluorobenzene
 Concen: 43.364 ug/l
 RT: 12.41 min Scan# 3307
 Delta R.T. 0.00 min
 Lab File: VN058650.D
 Acq: 9 Oct 2019 19:10

Tgt Ion: 95 Resp: 273367
 Ion Ratio Lower Upper
 95 100
 174 76.0 0.0 150.6
 176 74.3 0.0 146.2





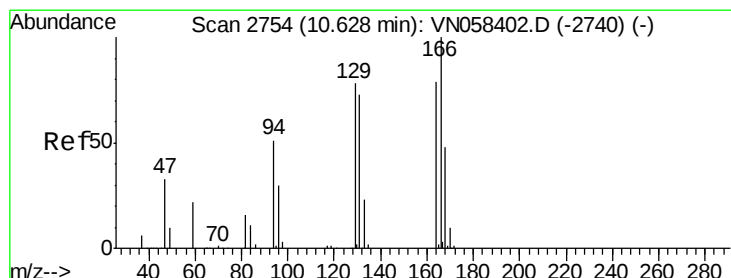
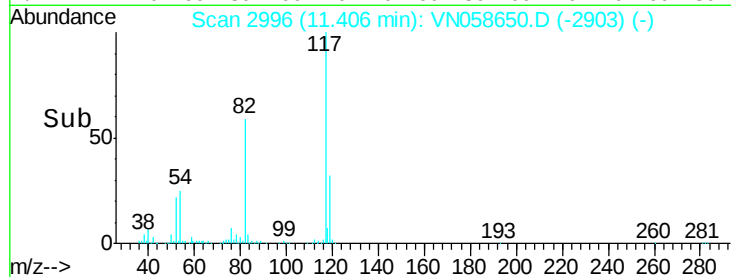
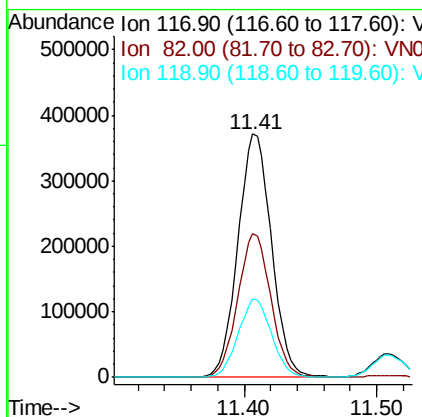
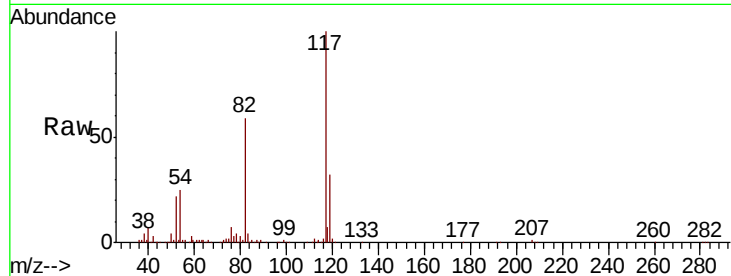
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN058650.D
Acq: 9 Oct 2019 19:10

Instrument :
MSVOA_N
ClientSampleId :
VN1010WBS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	59.2	47.4	71.0
119	32.0	25.5	38.3

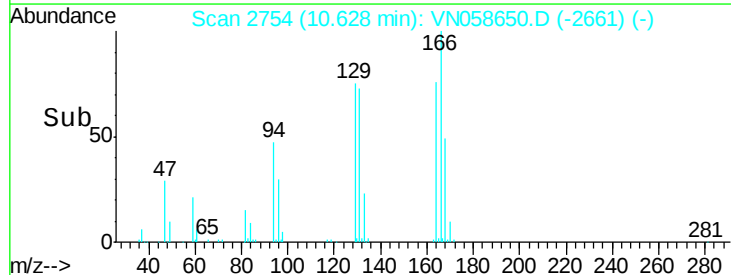
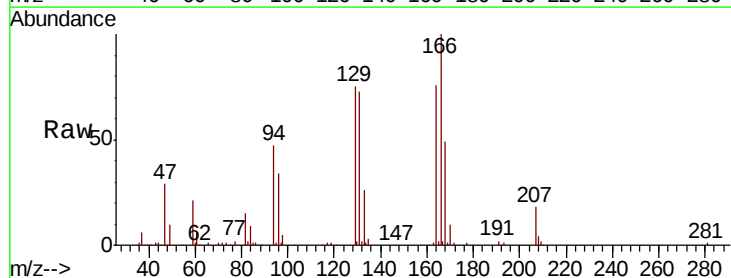
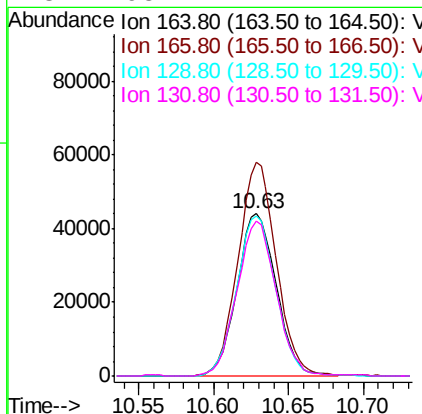
Manual Integrations
APPROVED

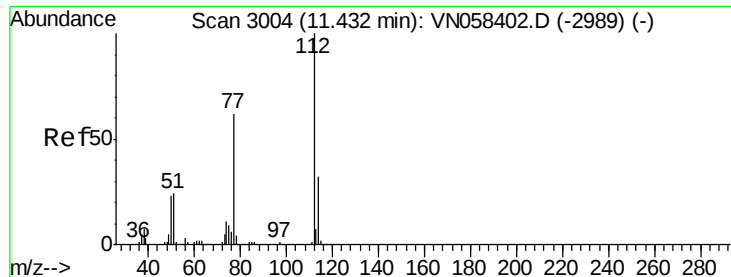
MMDadoda
10/10/2019 3:20:37 PM



#64
Tetrachloroethene
Concen: 19.377 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. 0.00 min
Lab File: VN058650.D
Acq: 9 Oct 2019 19:10

Tgt Ion	Ratio	Lower	Upper
164	100		
166	131.4	101.1	151.7
129	98.5	79.2	118.8
131	95.7	74.1	111.1





#65

Chlorobenzene

Concen: 18.386 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. 0.00 min

Lab File: VN058650.D

Acq: 9 Oct 2019 19:10

Instrument :

MSVOA_N

ClientSampleId :

VN1010WBS01

Tot Ion:112 Resp: 239318

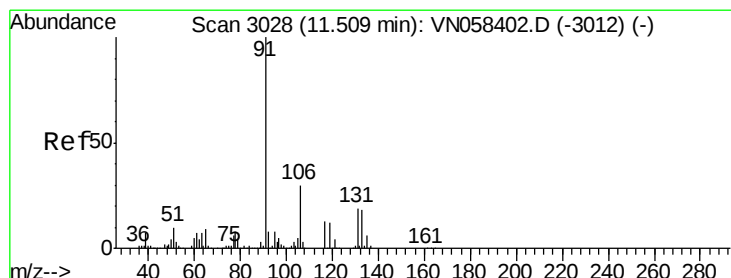
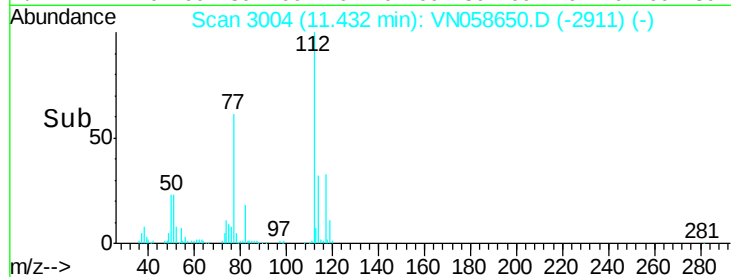
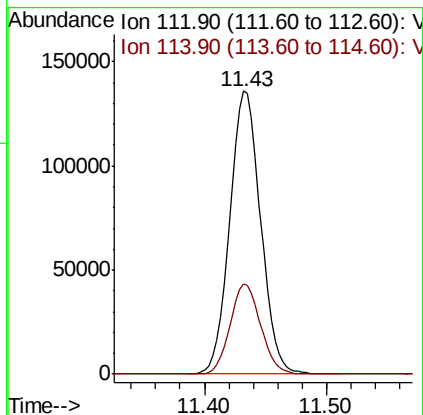
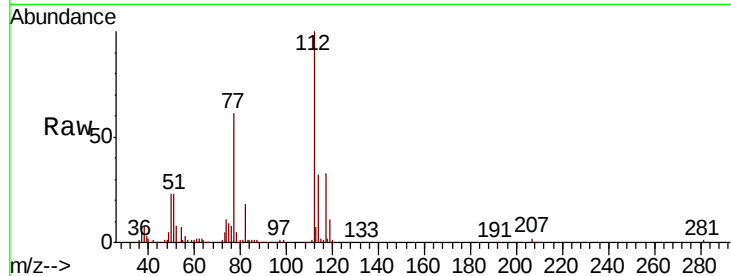
Ion Ratio Lower Upper

112 100

114 31.9 25.4 38.2

Manual Integrations
APPROVED

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#66

1,1,1,2-Tetrachloroethane

Concen: 20.785 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN058650.D

Acq: 9 Oct 2019 19:10

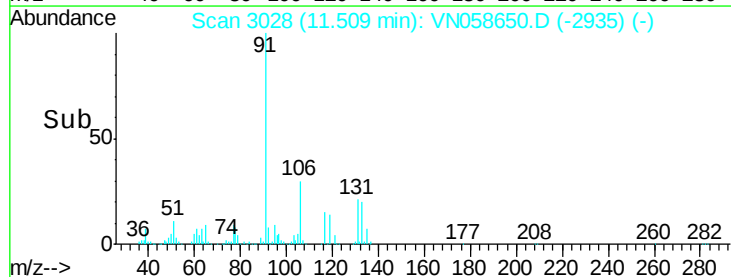
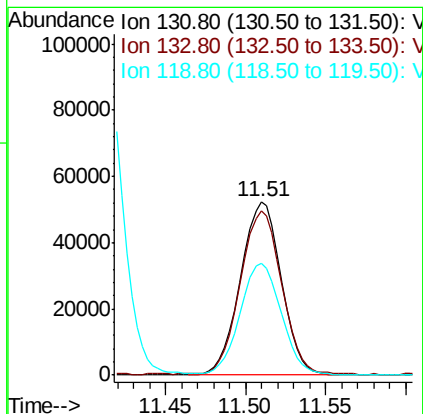
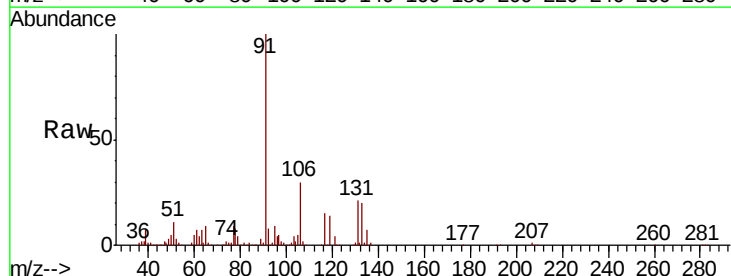
Tgt Ion:131 Resp: 91153

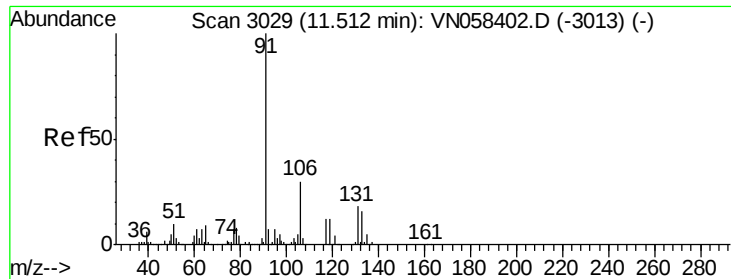
Ion Ratio Lower Upper

131 100

133 95.5 47.8 143.3

119 65.4 33.0 99.0





#67

Ethyl Benzene

Concen: 18.327 ug/l

RT: 11.51 min Scan# 3029

Delta R.T. 0.00 min

Lab File: VN058650.D

Acq: 9 Oct 2019 19:10

Instrument :

MSVOA_N

ClientSampleId :

VN1010WBS01

Tot Ion: 91 Resp: 432088

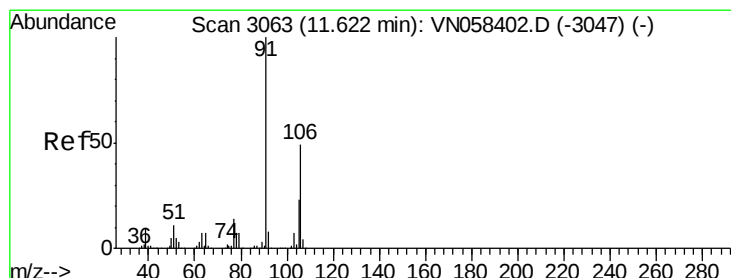
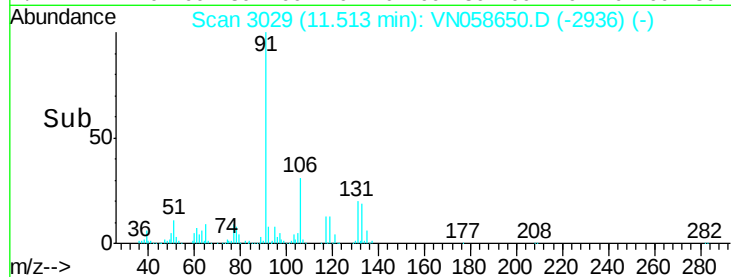
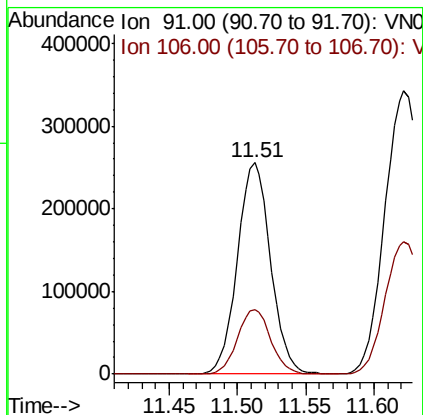
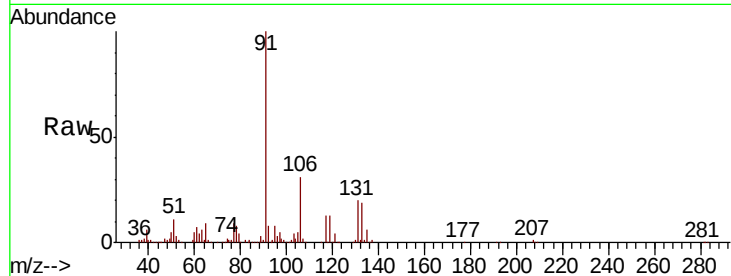
Ion Ratio Lower Upper

91 100

106 30.5 24.3 36.5

Manual Integrations
APPROVED

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#68

m/p-Xylenes

Concen: 35.387 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. 0.00 min

Lab File: VN058650.D

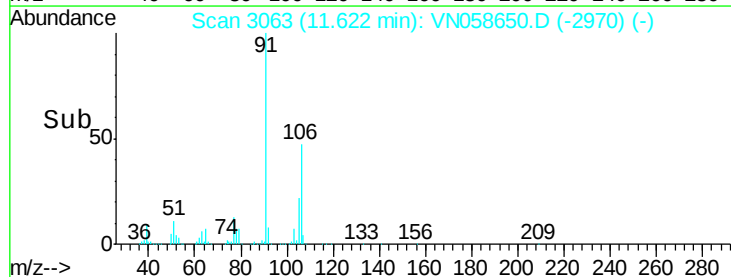
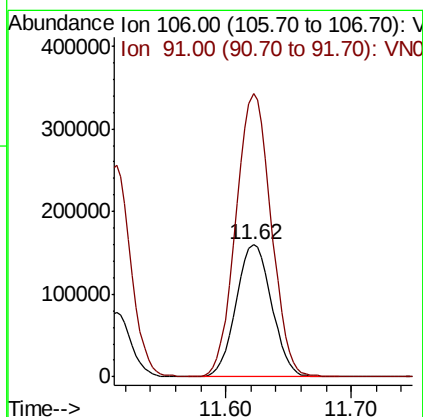
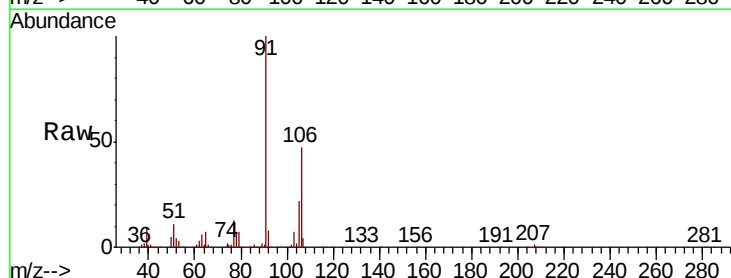
Acq: 9 Oct 2019 19:10

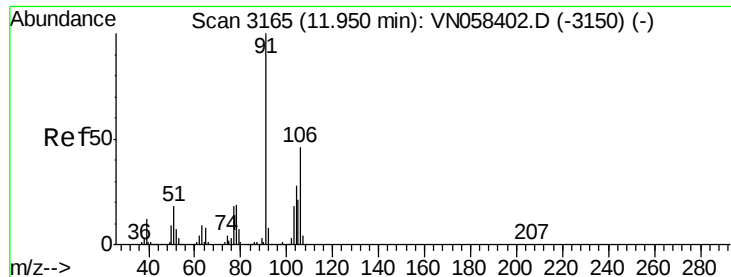
Tgt Ion: 106 Resp: 313900

Ion Ratio Lower Upper

106 100

91 212.8 165.0 247.4





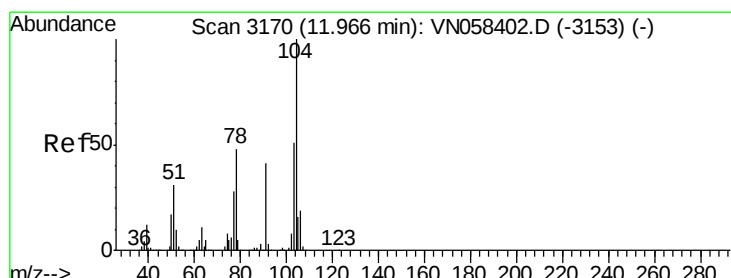
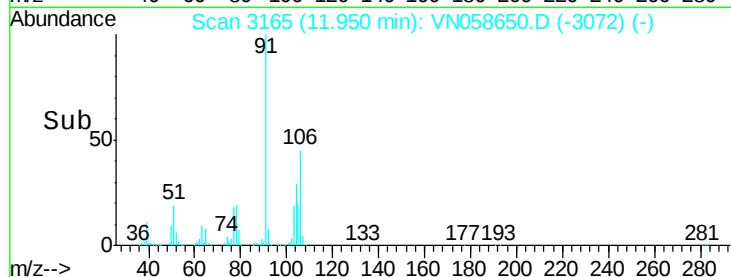
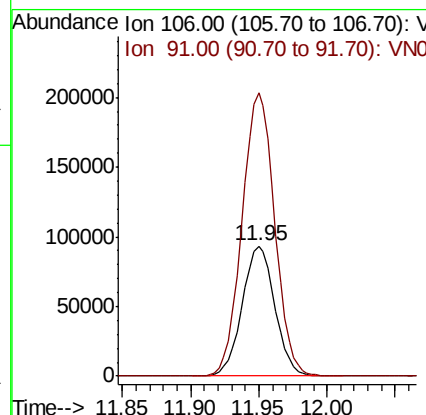
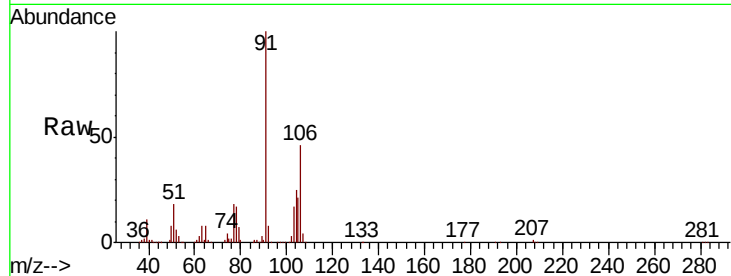
#69
o-Xylene
Concen: 18.150 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. 0.00 min
Lab File: VN058650.D
Acq: 9 Oct 2019 19:10

Instrument :
MSVOA_N
ClientSampleId :
VN1010WBS01

Tot Ion:106 Resp: 154984
Ion Ratio Lower Upper
106 100
91 217.8 109.1 327.4

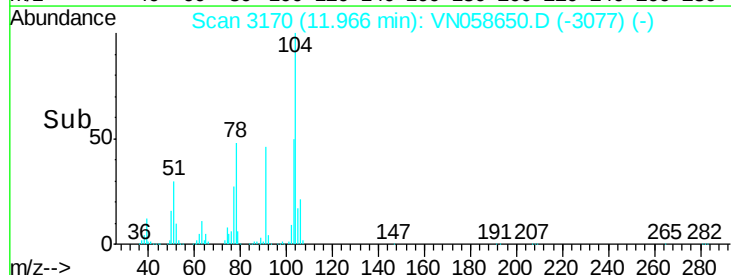
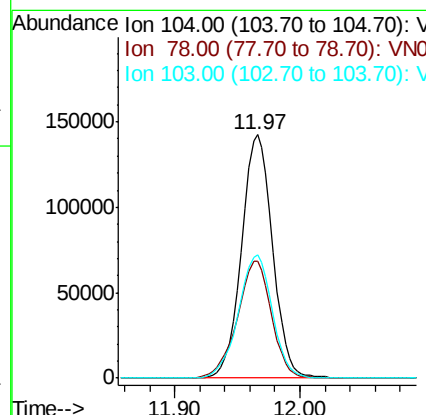
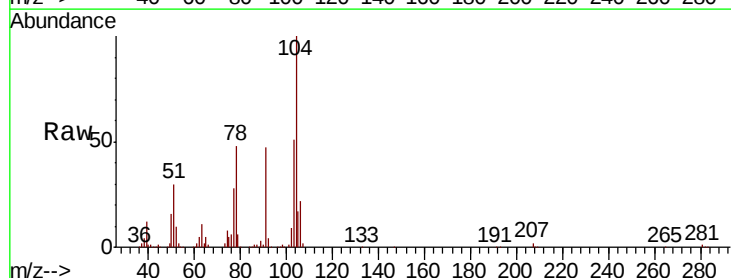
Manual Integrations
APPROVED

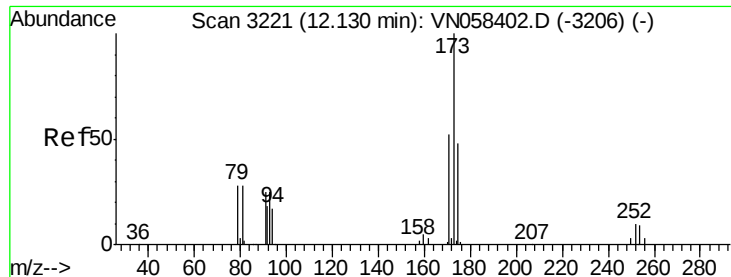
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#70
Styrene
Concen: 17.664 ug/l
RT: 11.97 min Scan# 3170
Delta R.T. 0.00 min
Lab File: VN058650.D
Acq: 9 Oct 2019 19:10

Tgt Ion:104 Resp: 245038
Ion Ratio Lower Upper
104 100
78 53.0 42.8 64.2
103 55.3 43.7 65.5





#71

Bromoform

Concen: 20.495 ug/l

RT: 12.13 min Scan# 3221

Delta R.T. 0.00 min

Lab File: VN058650.D

Acq: 9 Oct 2019 19:10

Instrument :

MSVOA_N

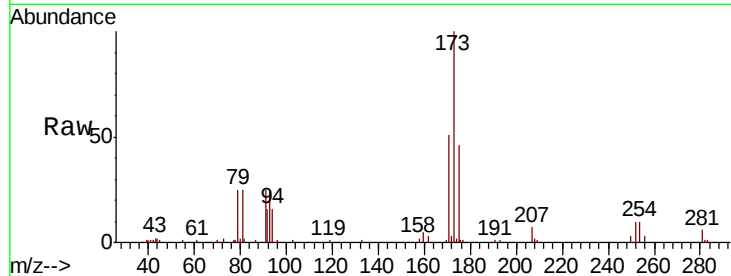
ClientSampleId :

VN1010WBS01

Tot Ion	Ratio	Lower	Upper
173	100		
175	47.3	24.3	73.0
254	0.0	0.1	0.1#

Manual Integrations
APPROVED

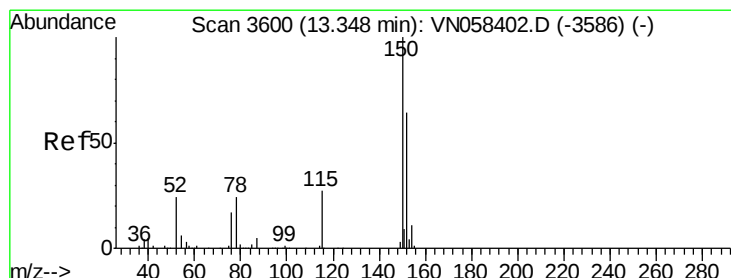
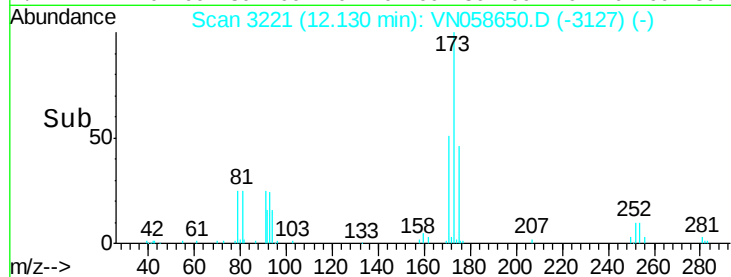
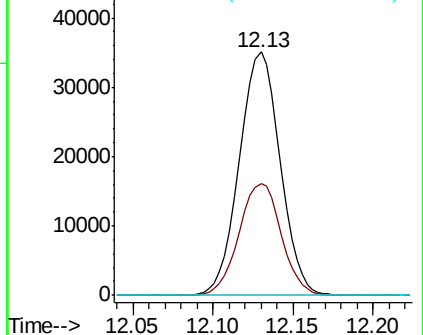
MMDadoda
10/10/2019 3:20:37 PM



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

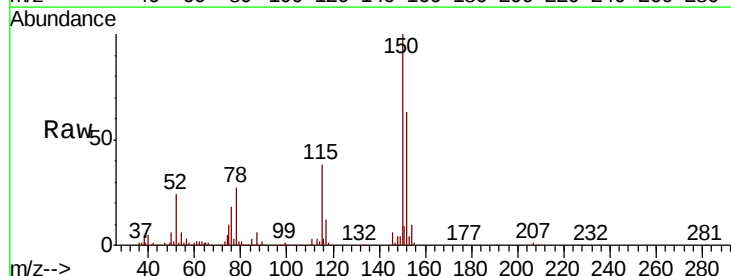
RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN058650.D

Acq: 9 Oct 2019 19:10

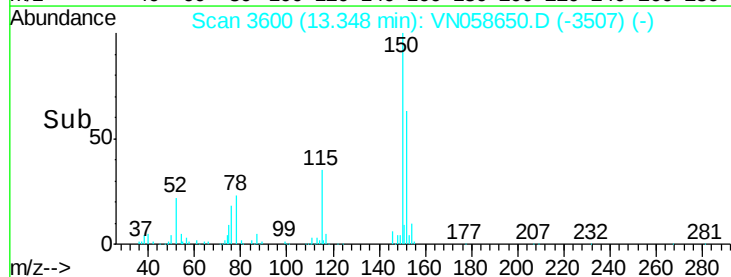
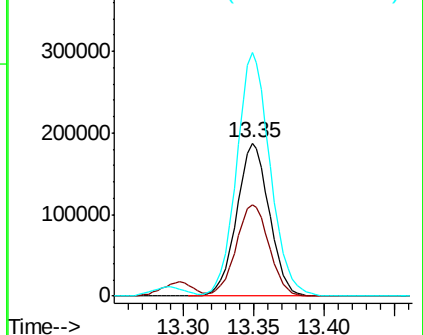
Tgt Ion	Ratio	Lower	Upper
152	100		
115	60.8	30.0	90.0
150	163.0	0.0	348.2

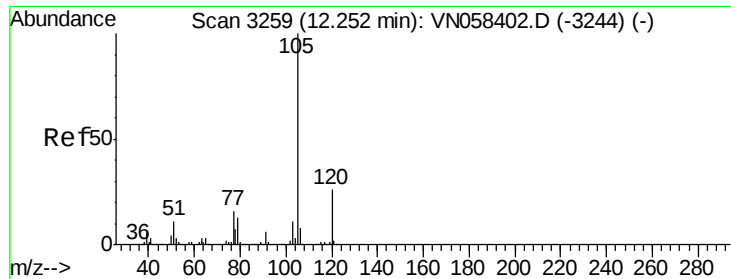


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 18.908 ug/l

RT: 12.25 min Scan# 3259

Delta R.T. 0.00 min

Lab File: VN058650.D

Acq: 9 Oct 2019 19:10

Instrument :

MSVOA_N

ClientSampleId :

VN1010WBS01

Tot Ion: 105 Resp: 423972

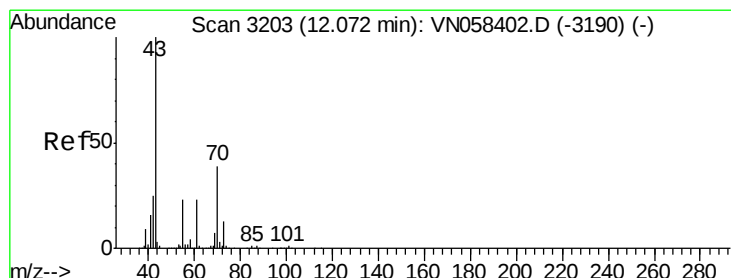
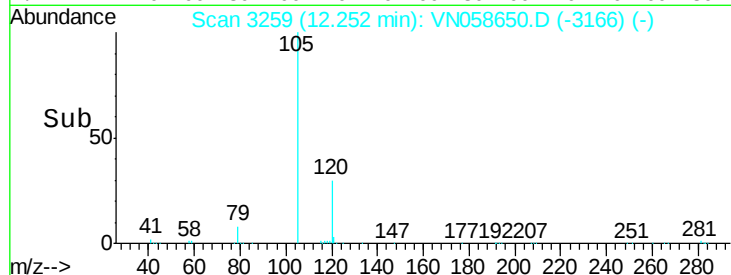
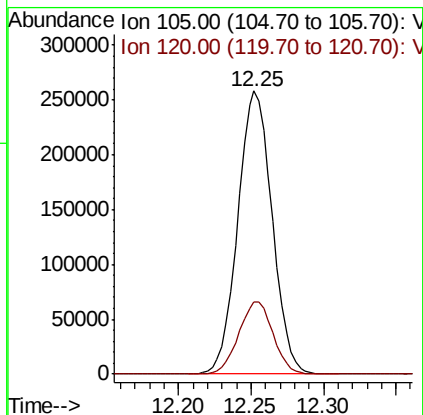
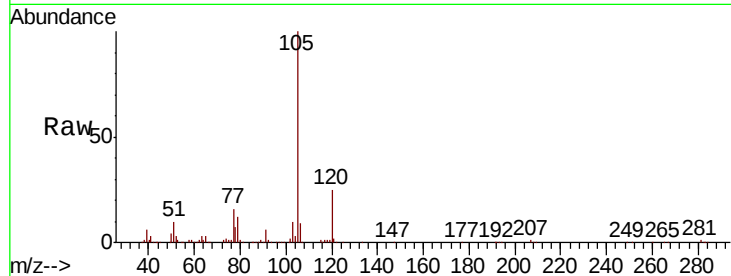
Ion Ratio Lower Upper

105 100

120 25.6 12.8 38.4

Manual Integrations
APPROVED

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10/10/2019 3:20:37 PM



#74

N-ethyl acetate

Concen: 18.021 ug/l

RT: 12.07 min Scan# 3203

Delta R.T. 0.00 min

Lab File: VN058650.D

Acq: 9 Oct 2019 19:10

Tgt Ion: 43 Resp: 160756

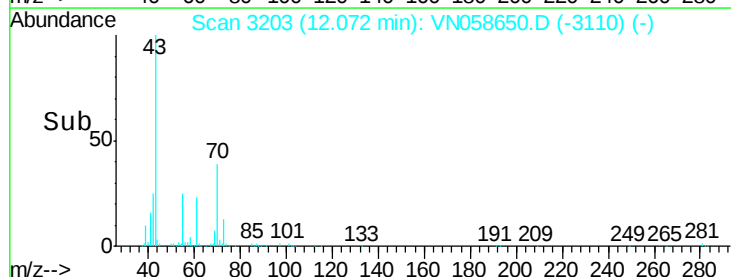
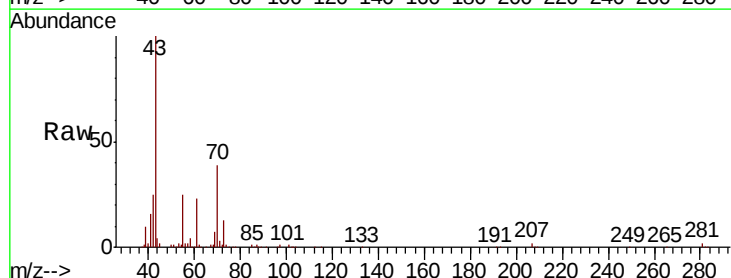
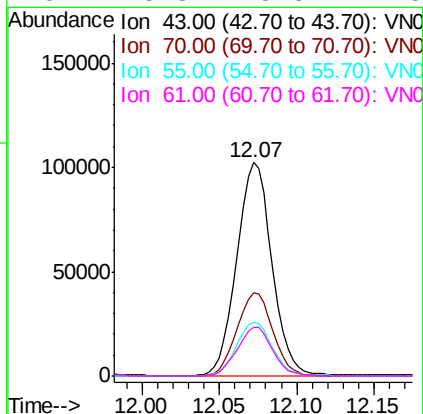
Ion Ratio Lower Upper

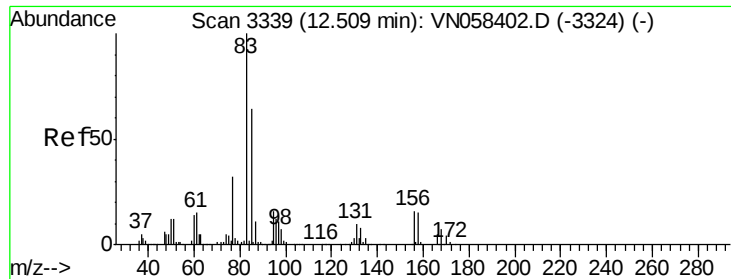
43 100

70 40.1 31.4 47.2

55 25.9 18.2 27.4

61 23.3 18.3 27.5





#75

1,1,2,2-Tetrachloroethane

Concen: 19.313 ug/l

RT: 12.51 min Scan# 3338

Delta R.T. -0.00 min

Lab File: VN058650.D

Acq: 9 Oct 2019 19:10

Instrument :

MSVOA_N

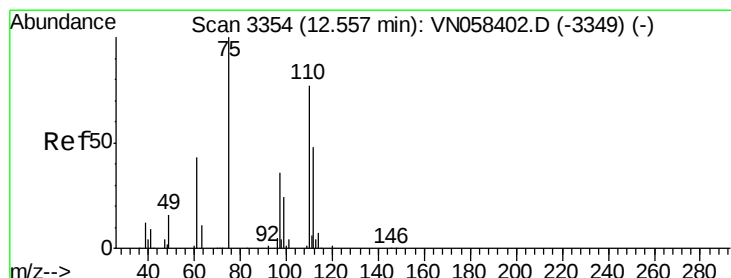
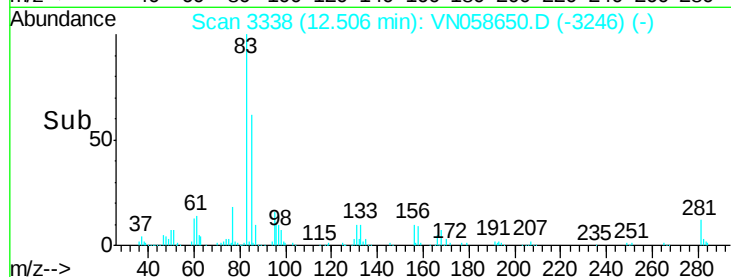
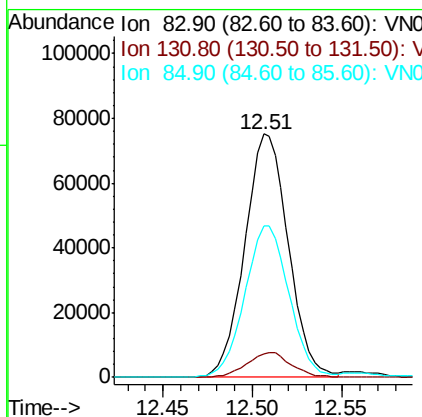
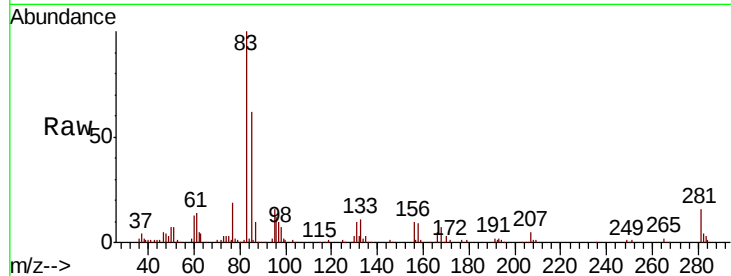
ClientSampleId :

VN1010WBS01

Tot Ion:	83	Resp:	128053
Ion Ratio	Lower	Upper	
83	100		
131	10.4	4.9	14.7
85	63.0	32.0	96.0

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 18.212 ug/l m

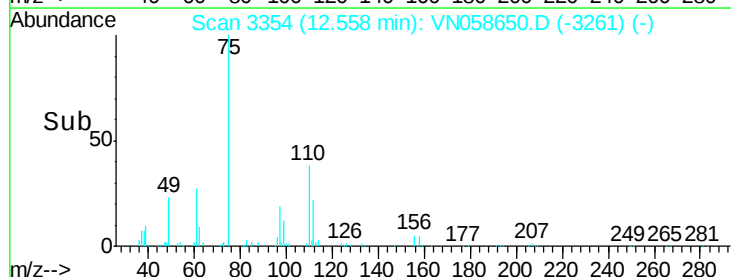
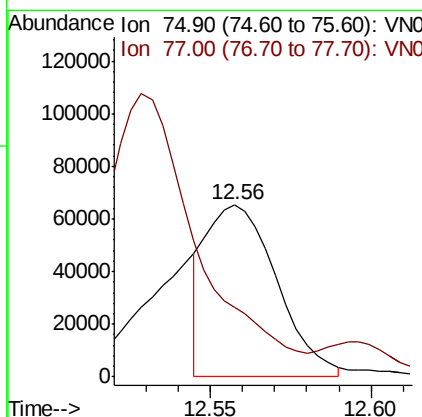
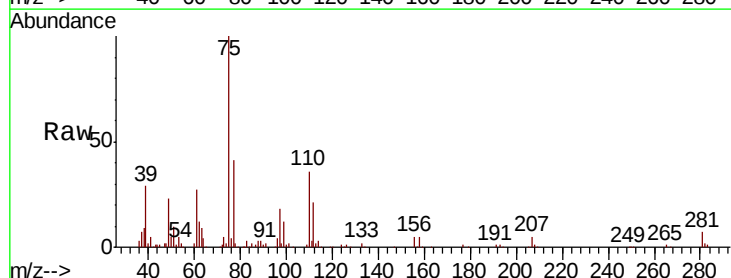
RT: 12.56 min Scan# 3354

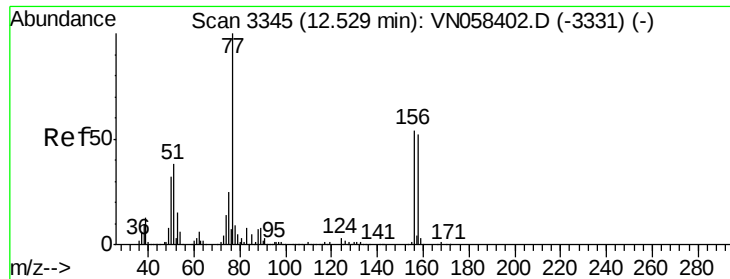
Delta R.T. 0.00 min

Lab File: VN058650.D

Acq: 9 Oct 2019 19:10

Tgt Ion:	75	Resp:	100929
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 19.160 ug/l

RT: 12.53 min Scan# 3345

Delta R.T. 0.00 min

Lab File: VN058650.D

Acq: 9 Oct 2019 19:10

Instrument :

MSVOA_N

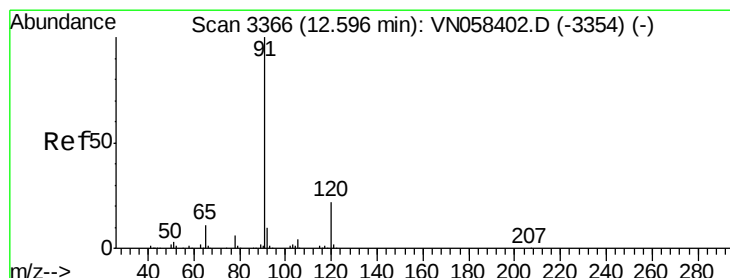
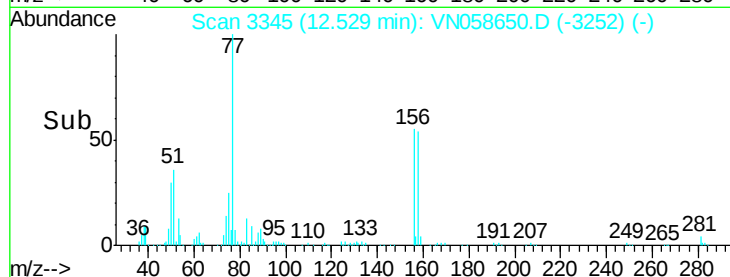
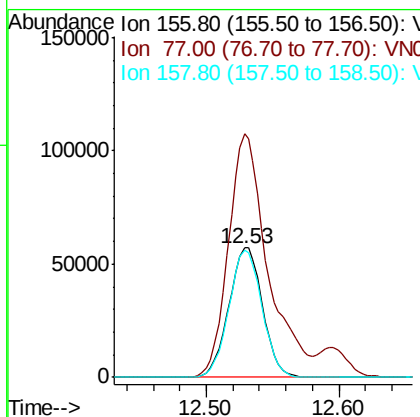
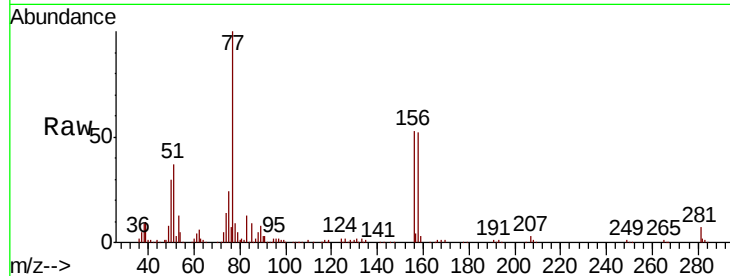
ClientSampleId :

VN1010WBS01

Tot Ion:	156	Resp:	100737
Ion Ratio	Lower	Upper	
156	100		
77	218.7	110.0	330.0
158	96.5	47.9	143.8

Manual Integrations
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#78

n-propylbenzene

Concen: 19.371 ug/l

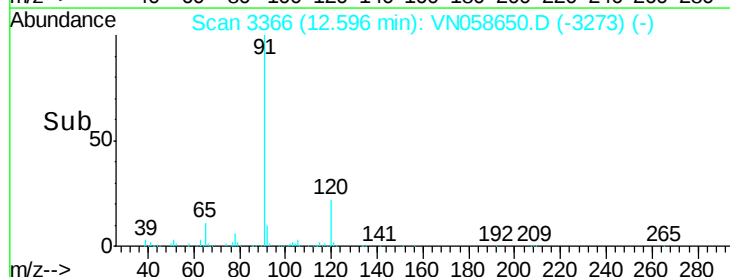
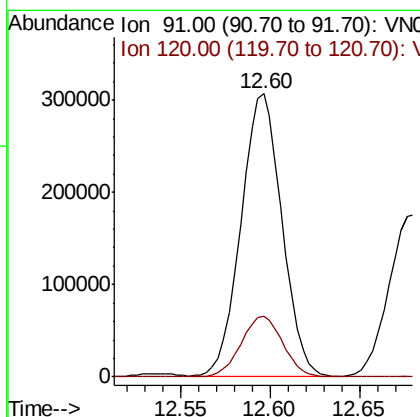
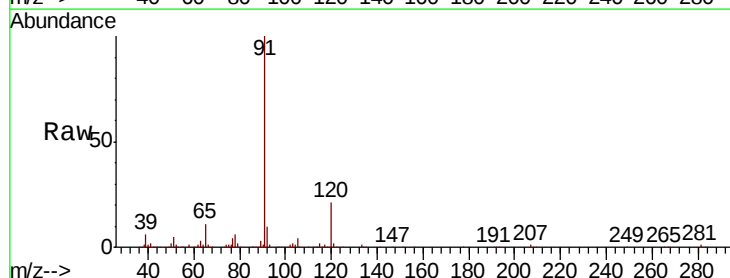
RT: 12.60 min Scan# 3366

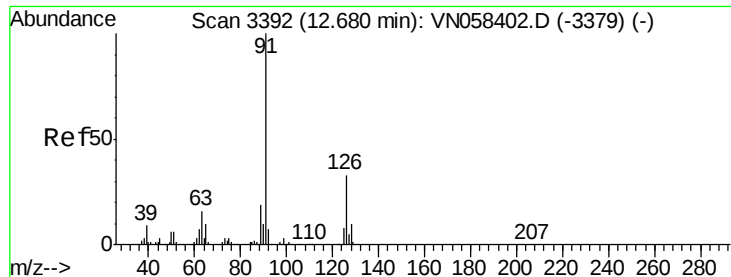
Delta R.T. 0.00 min

Lab File: VN058650.D

Acq: 9 Oct 2019 19:10

Tgt Ion:	91	Resp:	489359
Ion Ratio	Lower	Upper	
91	100		
120	22.1	10.9	32.9





#79

2-Chlorotoluene

Concen: 18.727 ug/l

RT: 12.68 min Scan# 3392

Delta R.T. 0.00 min

Lab File: VN058650.D

Acq: 9 Oct 2019 19:10

Instrument :

MSVOA_N

ClientSampleId :

VN1010WBS01

Tot Ion: 91 Resp: 291994

Ion Ratio Lower Upper

91 100

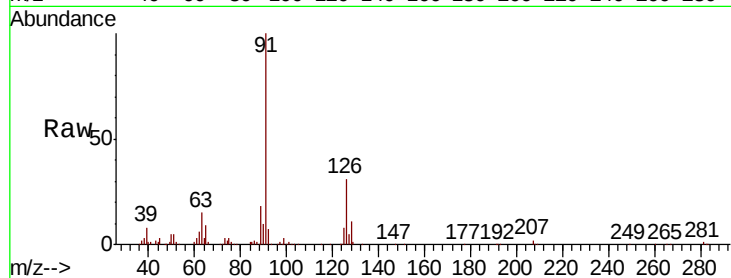
126 32.7 16.2 48.6

Manual Integrations

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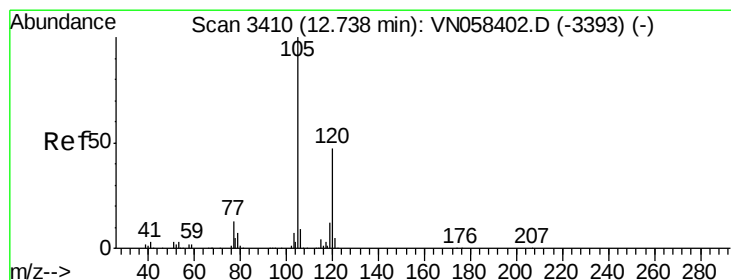
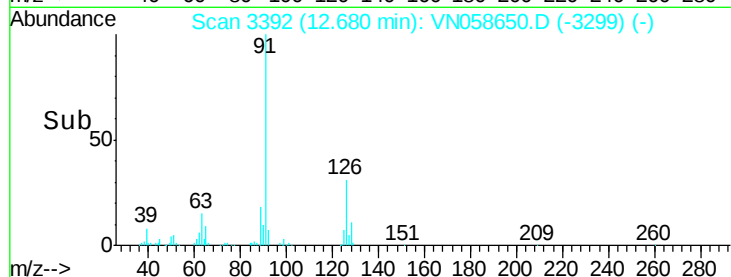
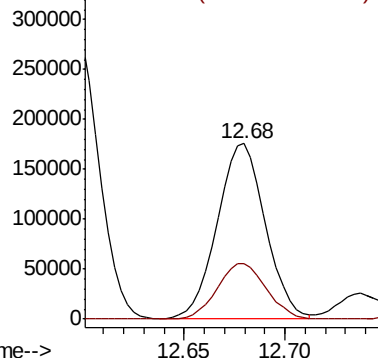
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Abundance Ion 91.00 (90.70 to 91.70): VN058650.D (-3299) (-)

Ion 125.90 (125.60 to 126.60): VN058650.D (-3299) (-)



#80

1,3,5-Trimethylbenzene

Concen: 19.048 ug/l

RT: 12.74 min Scan# 3410

Delta R.T. 0.00 min

Lab File: VN058650.D

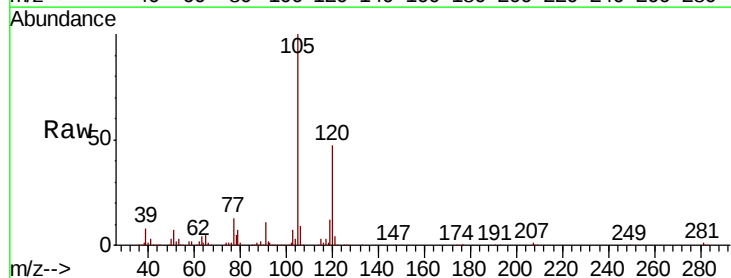
Acq: 9 Oct 2019 19:10

Tgt Ion: 105 Resp: 357536

Ion Ratio Lower Upper

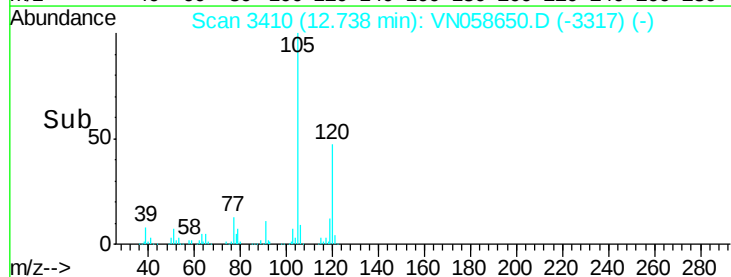
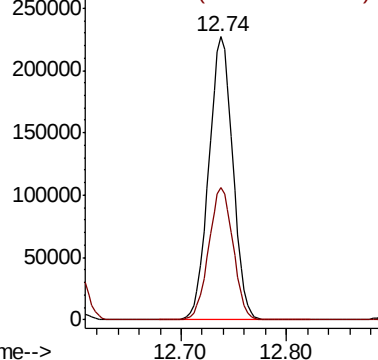
105 100

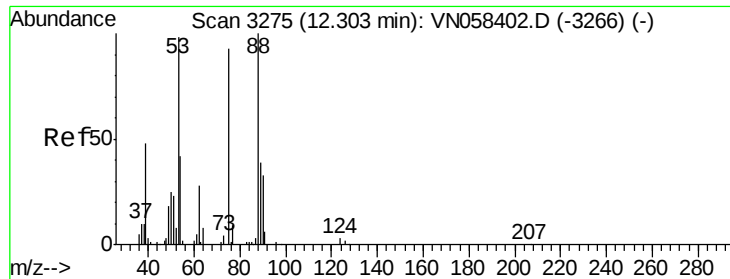
120 47.5 23.5 70.6



Abundance Ion 105.00 (104.70 to 105.70): VN058650.D (-3317) (-)

Ion 120.00 (119.70 to 120.70): VN058650.D (-3317) (-)





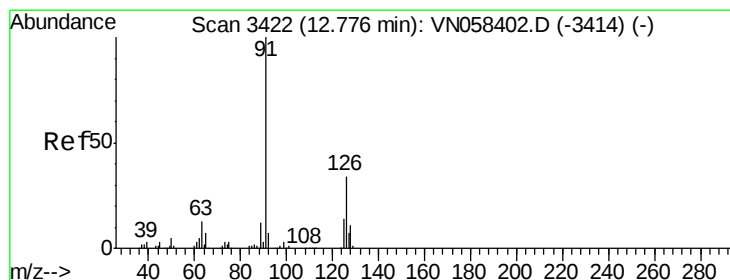
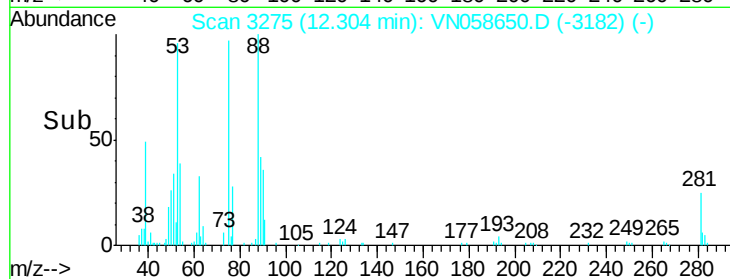
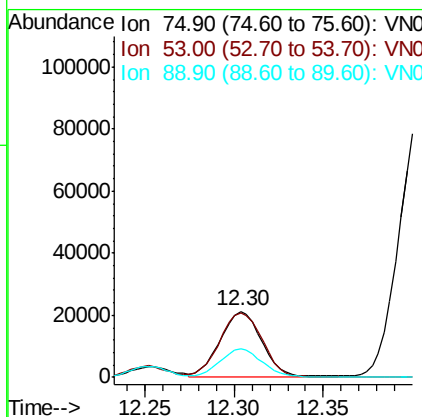
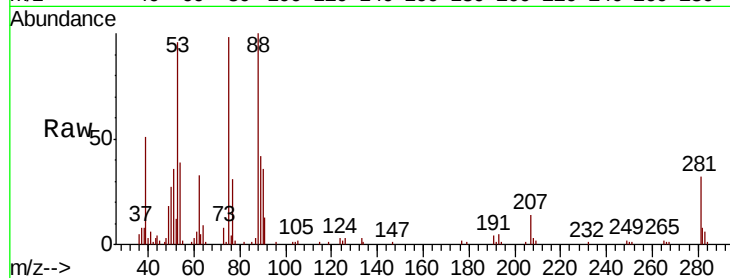
#81
trans-1,4-Dichloro-2-butene
Concen: 18.692 ug/l
RT: 12.30 min Scan# 3275
Delta R.T. 0.00 min
Lab File: VN058650.D
Acq: 9 Oct 2019 19:10

Instrument :
MSVOA_N
ClientSampleId :
VN1010WBS01

Tot Ion	Ratio	Lower	Upper
75	100		
53	101.0	85.4	128.0
89	45.2	35.0	52.4

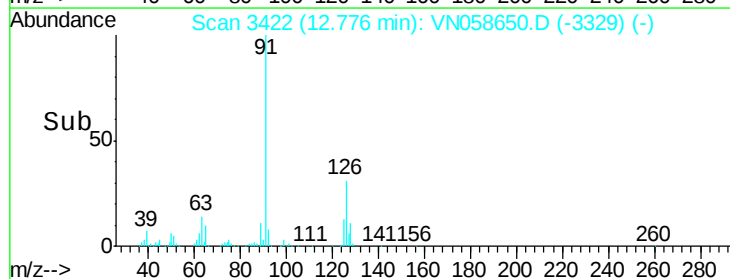
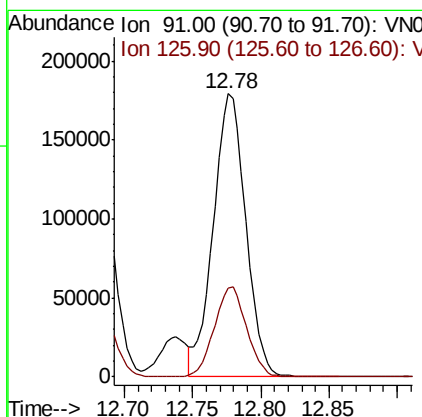
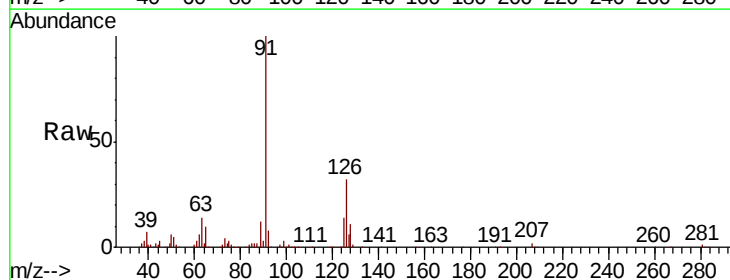
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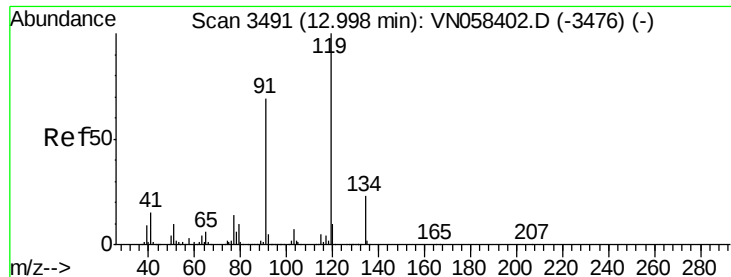
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#82
4-Chlorotoluene
Concen: 18.576 ug/l
RT: 12.78 min Scan# 3422
Delta R.T. 0.00 min
Lab File: VN058650.D
Acq: 9 Oct 2019 19:10

Tgt Ion	Ratio	Lower	Upper
91	100		
126	31.9	15.9	47.7





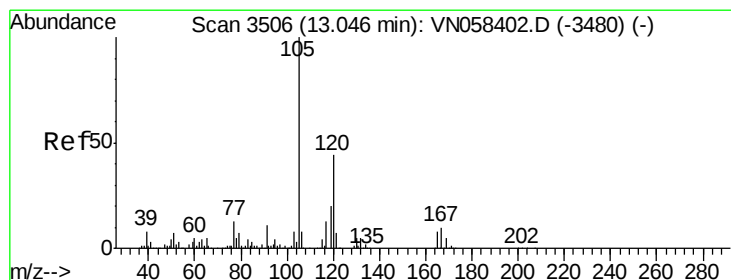
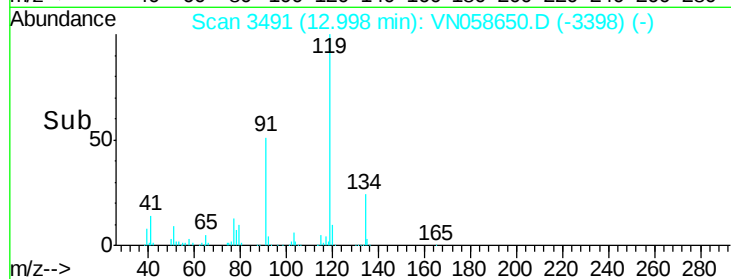
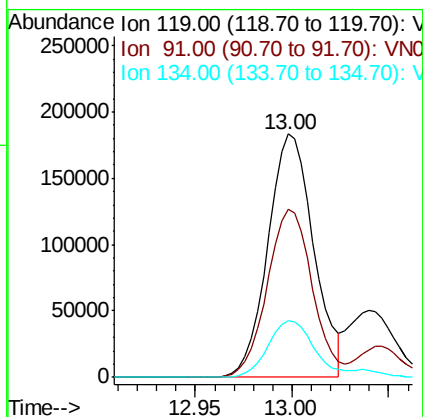
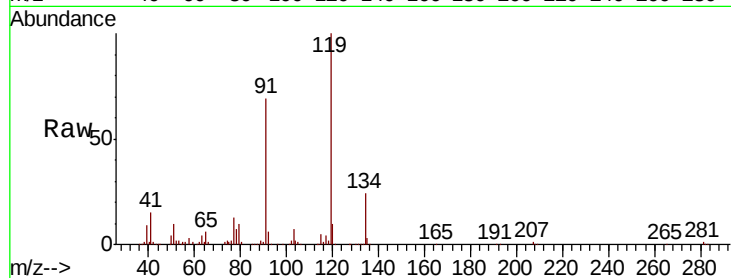
#83
tert-Butylbenzene
Concen: 19.038 ug/l
RT: 13.00 min Scan# 3491
Delta R.T. 0.00 min
Lab File: VN058650.D
Acq: 9 Oct 2019 19:10

Instrument :
MSVOA_N
ClientSampleId :
VN1010WBS01

Tot Ion	Ratio	Lower	Upper
119	100		
91	68.1	34.2	102.6
134	23.4	11.6	34.8

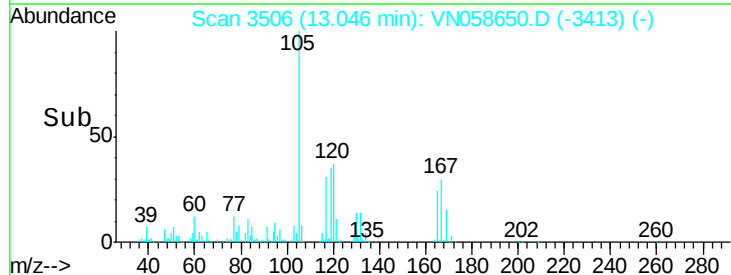
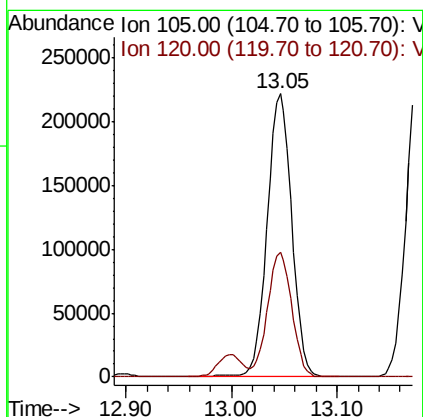
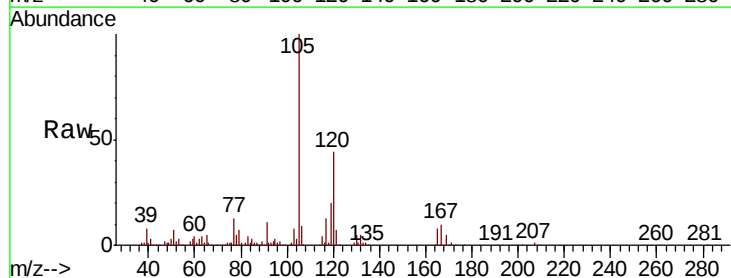
Manual Integrations
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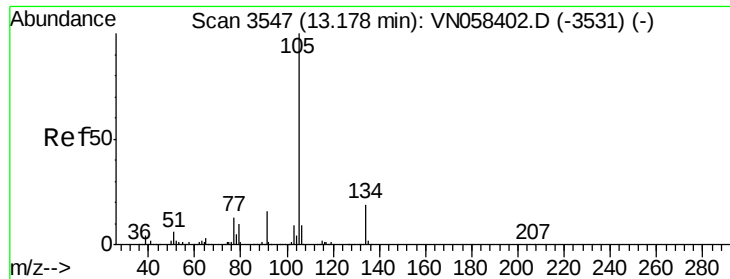
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#84
1,2,4-Trimethylbenzene
Concen: 19.125 ug/l
RT: 13.05 min Scan# 3506
Delta R.T. 0.00 min
Lab File: VN058650.D
Acq: 9 Oct 2019 19:10

Tgt Ion	Ratio	Lower	Upper
105	100		
120	43.3	21.7	65.1





#85

sec-Butylbenzene

Concen: 19.088 ug/l

RT: 13.18 min Scan# 3547

Delta R.T. 0.00 min

Lab File: VN058650.D

Acq: 9 Oct 2019 19:10

Instrument :

MSVOA_N

ClientSampleId :

VN1010WBS01

Tot Ion:105 Resp: 397924

Ion Ratio Lower Upper

105 100

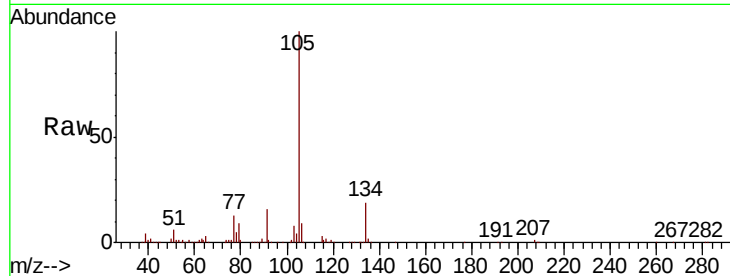
134 19.4 9.4 28.2

Manual Integrations

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

300000

250000

200000

150000

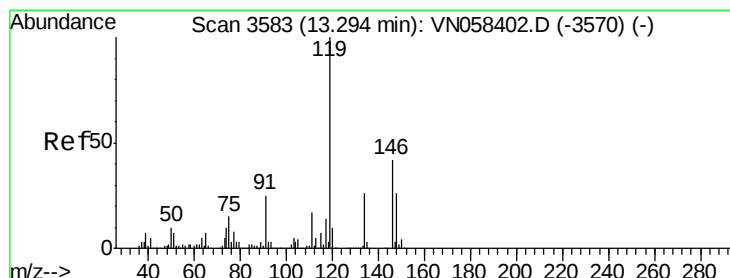
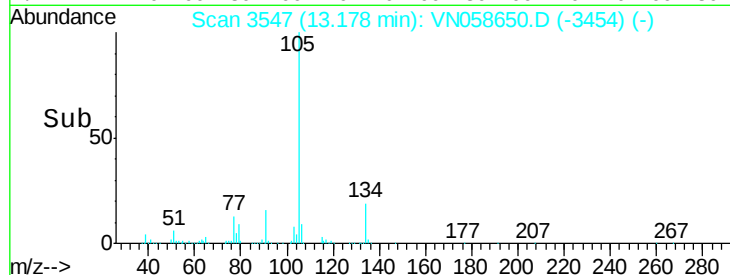
100000

50000

0

13.10 13.15 13.20 13.25

Time-->



#86

p-Isopropyltoluene

Concen: 19.422 ug/l

RT: 13.29 min Scan# 3583

Delta R.T. 0.00 min

Lab File: VN058650.D

Acq: 9 Oct 2019 19:10

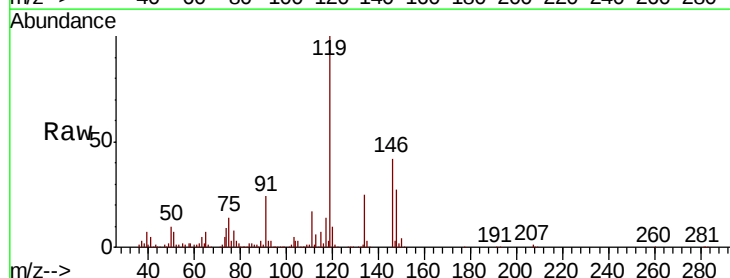
Tgt Ion:119 Resp: 356399

Ion Ratio Lower Upper

119 100

134 25.7 13.0 39.0

91 23.9 12.4 37.0



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

300000

250000

200000

150000

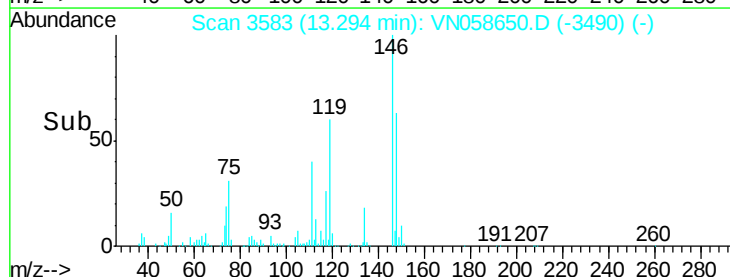
100000

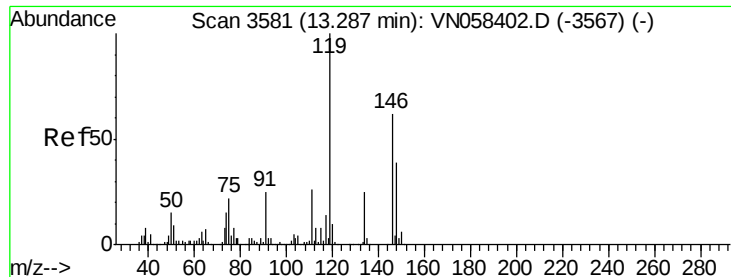
50000

0

13.20 13.25 13.30 13.35

Time-->





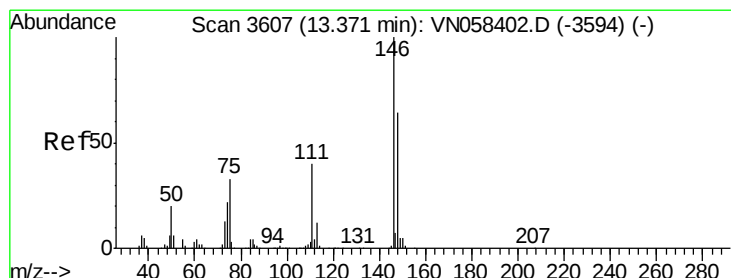
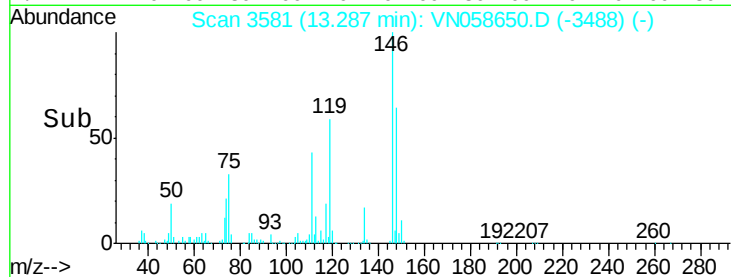
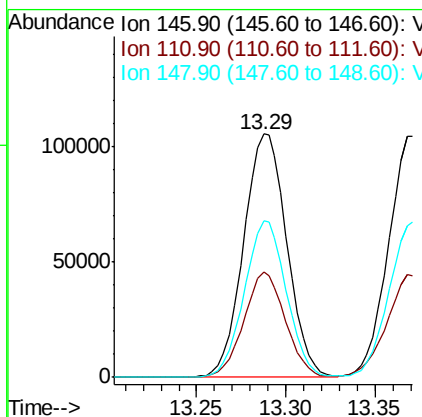
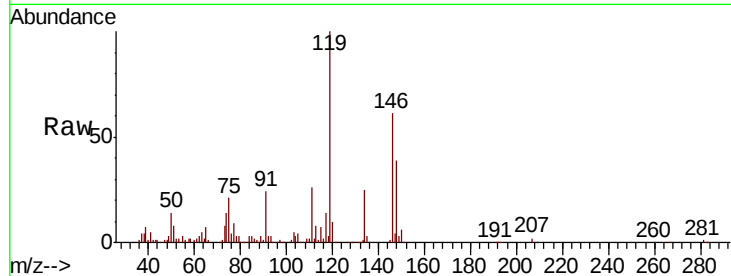
#87
 1,3-Dichlorobenzene
 Concen: 18.765 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. 0.00 min
 Lab File: VN058650.D
 Acq: 9 Oct 2019 19:10

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1010WBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.4	20.8	62.4
148	62.5	31.4	94.3

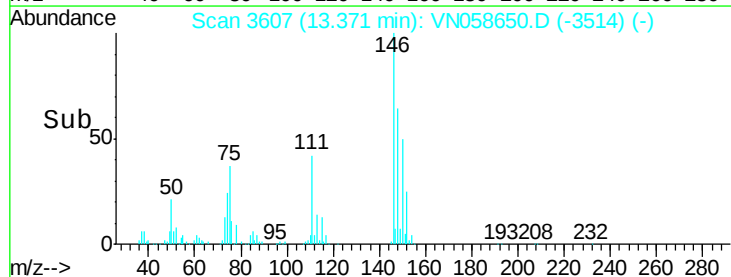
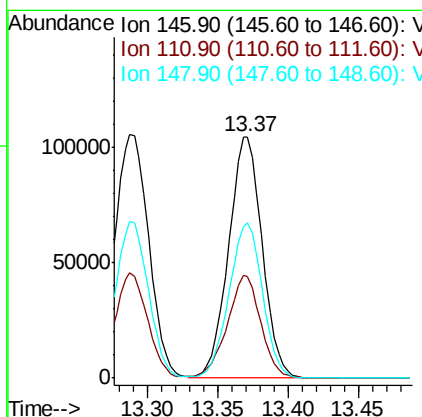
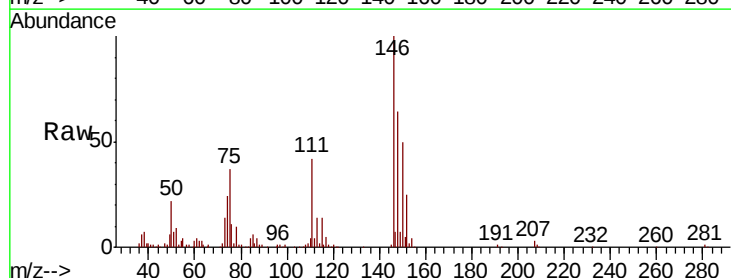
Manual Integrations
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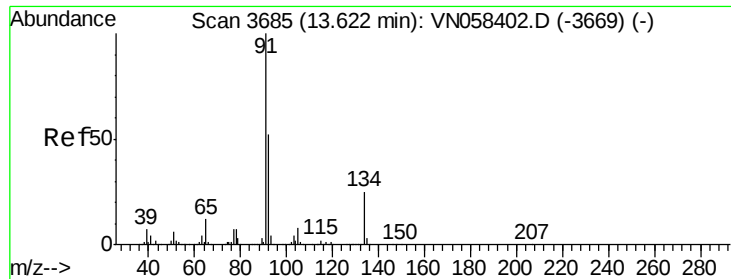
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#88
 1,4-Dichlorobenzene
 Concen: 18.375 ug/l
 RT: 13.37 min Scan# 3607
 Delta R.T. 0.00 min
 Lab File: VN058650.D
 Acq: 9 Oct 2019 19:10

Tgt Ion	Ratio	Lower	Upper
146	100		
111	42.6	20.5	61.6
148	64.2	31.5	94.5





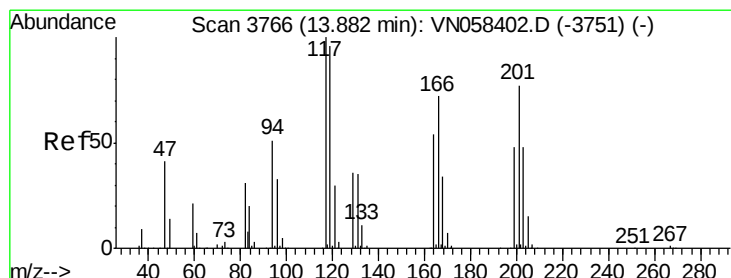
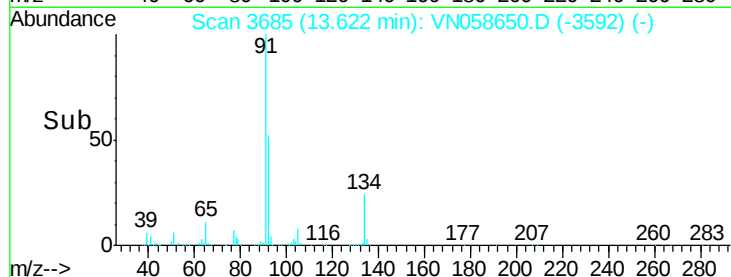
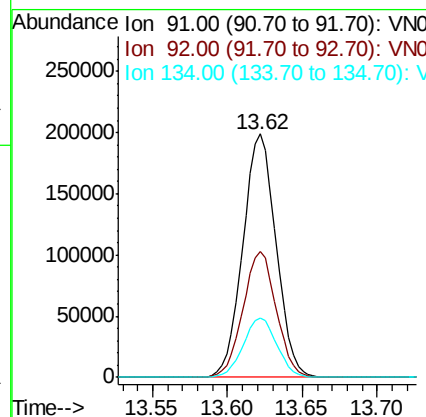
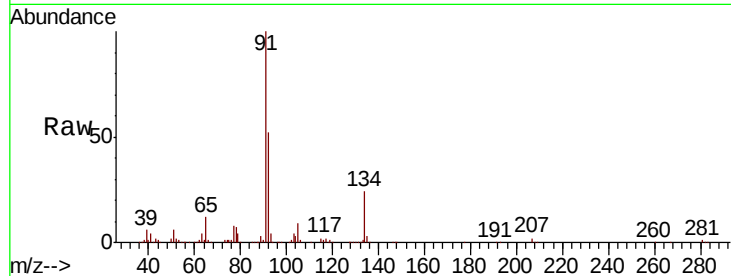
#89
n-Butylbenzene
Concen: 18.423 ug/l
RT: 13.62 min Scan# 3685
Delta R.T. 0.00 min
Lab File: VN058650.D
Acq: 9 Oct 2019 19:10

Instrument :
MSVOA_N
ClientSampleId :
VN1010WBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.9	25.7	77.1
134	24.7	12.2	36.6

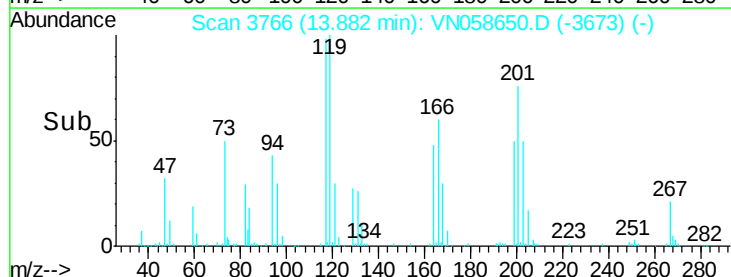
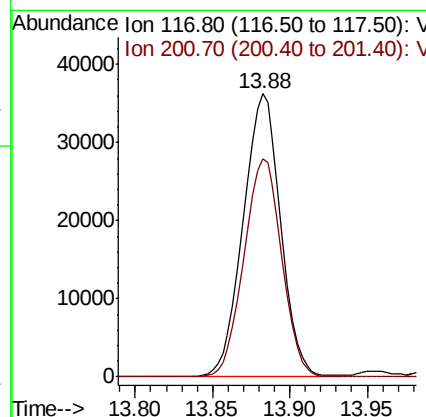
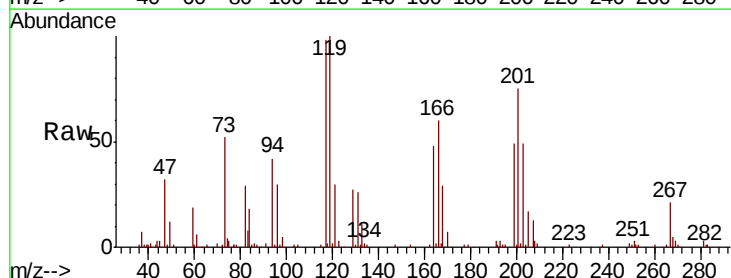
Manual Integrations
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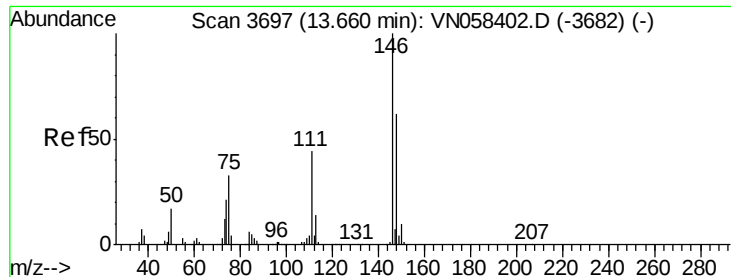
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#90
Hexachloroethane
Concen: 22.180 ug/l
RT: 13.88 min Scan# 3766
Delta R.T. 0.00 min
Lab File: VN058650.D
Acq: 9 Oct 2019 19:10

Tgt Ion	Ratio	Lower	Upper
117	100		
201	77.4	38.6	116.0





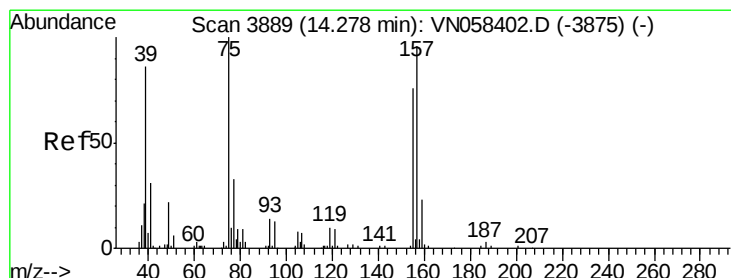
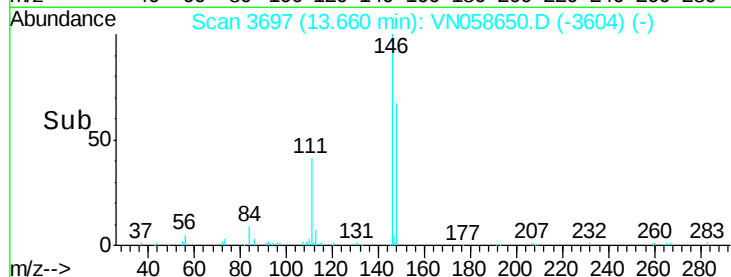
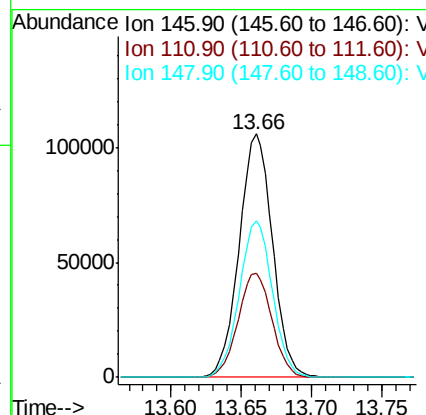
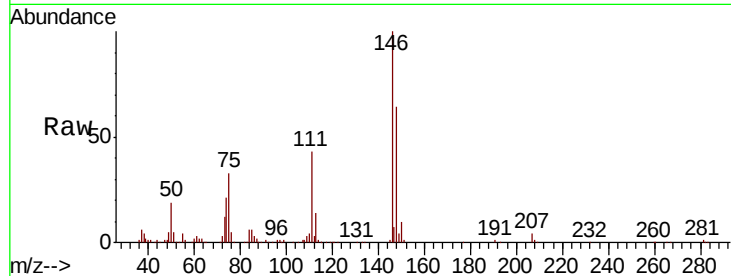
#91
 1,2-Dichlorobenzene
 Concen: 19.183 ug/l
 RT: 13.66 min Scan# 3697
 Delta R.T. 0.00 min
 Lab File: VN058650.D
 Acq: 9 Oct 2019 19:10

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1010WBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	43.6	21.8	65.3
148	64.1	31.5	94.5

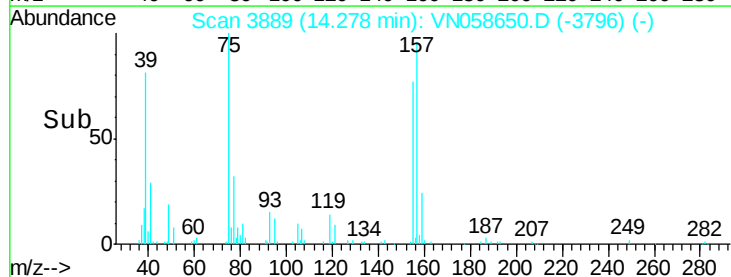
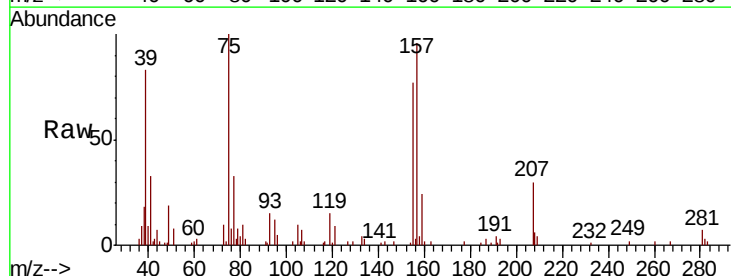
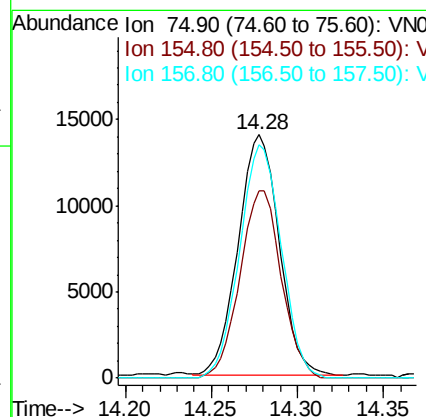
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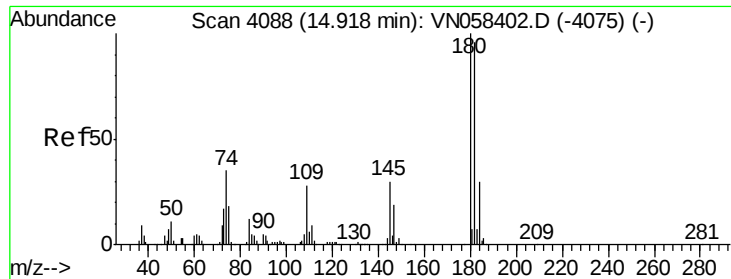
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 19.857 ug/l
 RT: 14.28 min Scan# 3889
 Delta R.T. 0.00 min
 Lab File: VN058650.D
 Acq: 9 Oct 2019 19:10

Tgt Ion	Ratio	Lower	Upper
75	100		
155	78.2	39.2	117.6
157	97.9	48.7	146.1





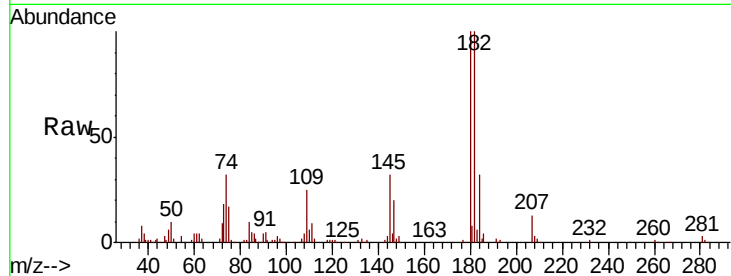
#93
 1,2,4-Trichlorobenzene
 Concen: 19.200 ug/l
 RT: 14.92 min Scan# 4088
 Delta R.T. 0.00 min
 Lab File: VN058650.D
 Acq: 9 Oct 2019 19:10

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1010WBS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.3	47.4	142.3
145	31.5	15.3	45.9

Manual Integrations
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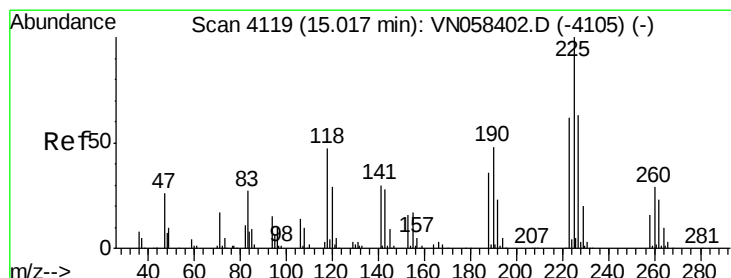
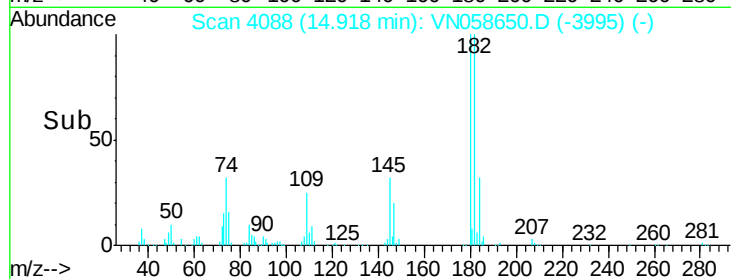
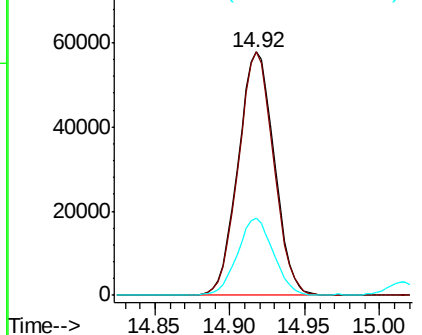


Abundance

Ion 179.80 (179.50 to 180.50): V

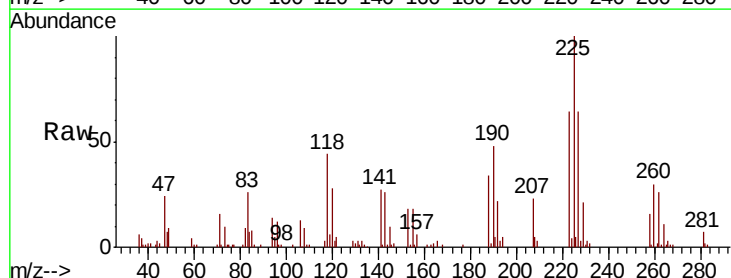
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94
 Hexachlorobutadiene
 Concen: 18.894 ug/l
 RT: 15.02 min Scan# 4119
 Delta R.T. 0.00 min
 Lab File: VN058650.D
 Acq: 9 Oct 2019 19:10

Tgt Ion	Ratio	Lower	Upper
225	100		
223	65.0	31.1	93.5
227	65.4	31.4	94.2

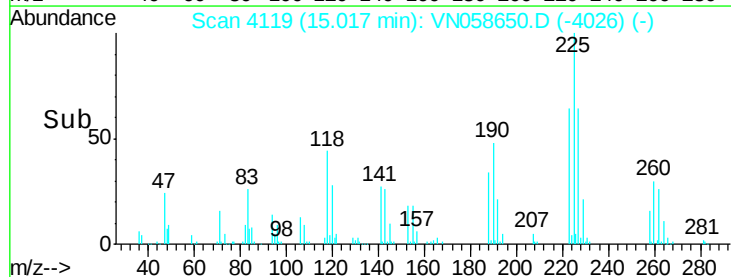
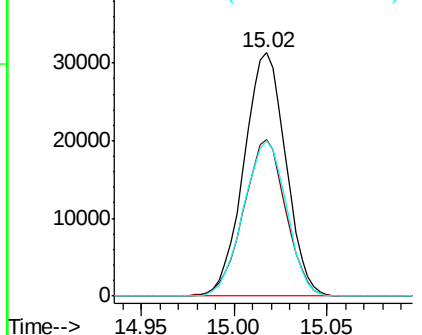


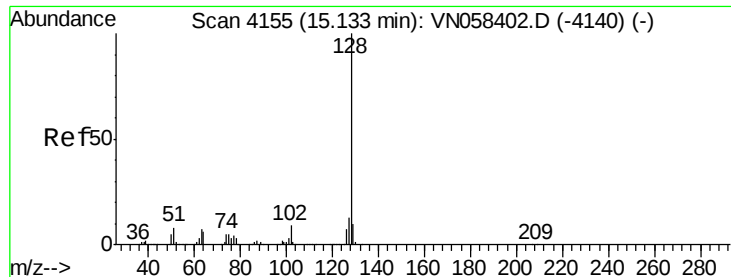
Abundance

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





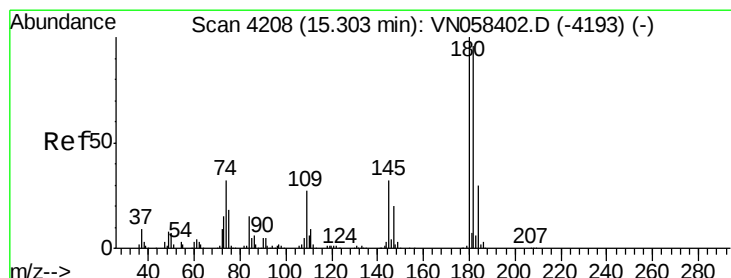
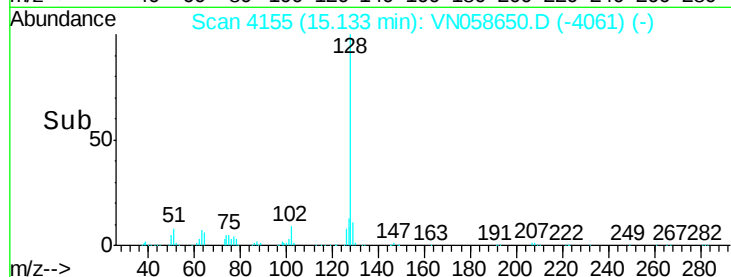
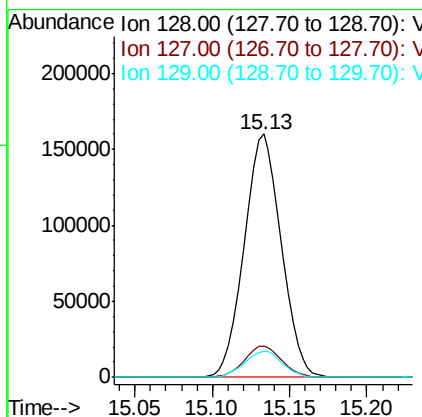
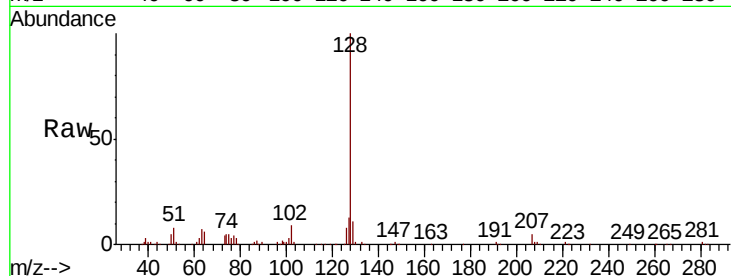
#95
Naphthalene
Concen: 17.972 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN058650.D
Acq: 9 Oct 2019 19:10

Instrument :
MSVOA_N
ClientSampleId :
VN1010WBS01

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.2	15.4
129	10.9	8.3	12.5

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#96
1,2,3-Trichlorobenzene
Concen: 18.194 ug/l
RT: 15.30 min Scan# 4207
Delta R.T. -0.00 min
Lab File: VN058650.D
Acq: 9 Oct 2019 19:10

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.9	48.3	144.9
145	32.5	16.1	48.3

