

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080919\
 Data File : VN057160.D
 Acq On : 9 Aug 2019 20:48
 Operator : JC/SP
 Sample : K4262-08MSD
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-4R_080819MSD

Manual Integrations
 APPROVED

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 8/12/2019 3:12:13 PM

Quant Time: Aug 10 08:22:10 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N080719W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 08 06:49:25 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	1106926	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.01	114	1630415	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.91	117	1464226	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.87	152	593622	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.44	65	558343	49.05	ug/l	0.00
Spiked Amount 50.000			Recovery =	98.10%		
35) Dibromofluoromethane	6.99	113	510956	49.94	ug/l	0.00
Spiked Amount 50.000			Recovery =	99.88%		
50) Toluene-d8	9.56	98	1938735	49.53	ug/l	0.00
Spiked Amount 50.000			Recovery =	99.06%		
62) 4-Bromofluorobenzene	11.92	95	648770	51.44	ug/l	0.00
Spiked Amount 50.000			Recovery =	102.88%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.82	85	376771	42.349	ug/l	99
3) Chloromethane	2.00	50	469457	39.714	ug/l	100
4) Vinyl Chloride	2.11	62	487477	44.366	ug/l	99
5) Bromomethane	2.43	94	337644	45.226	ug/l	99
6) Chloroethane	2.55	64	318770	45.231	ug/l	99
7) Trichlorofluoromethane	2.83	101	721812	45.703	ug/l	100
8) Diethyl Ether	3.14	74	285501	46.788	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	3.44	101	431459	45.064	ug/l	99
10) Methyl Iodide	3.63	142	655065	45.276	ug/l	99
11) Tert butyl alcohol	4.23	59	311508	192.291	ug/l	99
12) 1,1-Dichloroethene	3.43	96	437340	46.432	ug/l	98
13) Acrolein	3.31	56	179725	175.370	ug/l	96
14) Allyl chloride	3.91	41	678657	49.580	ug/l	95
15) Acrylonitrile	4.44	53	1017487	232.072	ug/l	97
16) Acetone	3.47	43	760948	221.337	ug/l	98
17) Carbon Disulfide	3.72	76	1146886	45.770	ug/l	99
18) Methyl Acetate	3.89	43	444549	43.311	ug/l	100
19) Methyl tert-butyl Ether	4.49	73	1377361	48.438	ug/l	97
20) Methylene Chloride	4.10	84	504658	44.478	ug/l	99
21) trans-1,2-Dichloroethene	4.51	96	473820	46.180	ug/l	97
22) Diisopropyl ether	5.32	45	1399980	46.890	ug/l	97
23) Vinyl Acetate	5.26	43	5023899	219.738	ug/l	100
24) 1,1-Dichloroethane	5.25	63	853414	46.498	ug/l	98
25) 2-Butanone	6.20	43	1225182	233.249	ug/l	99
26) 2,2-Dichloropropane	6.21	77	575159	43.073	ug/l	100
27) cis-1,2-Dichloroethene	6.21	96	552781	47.028	ug/l	99
28) Bromochloromethane	6.59	49	424663	50.302	ug/l	100
29) Tetrahydrofuran	6.60	42	822305	232.393	ug/l	99
30) Chloroform	6.76	83	871867	45.896	ug/l	98
31) Cyclohexane	7.07	56	711479	43.087	ug/l	98
32) 1,1,1-Trichloroethane	6.98	97	764582	47.979	ug/l	99
36) 1,1-Dichloropropene	7.20	75	650908	48.488	ug/l	99
37) Ethyl Acetate	6.28	43	477635	43.161	ug/l #	99
38) Carbon Tetrachloride	7.19	117	674683	48.226	ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.53	83	736618	45.123	ug/l	99
40) Benzene	7.46	78	1983887	46.683	ug/l	98
41) Methacrylonitrile	6.55	41	270349	48.096	ug/l	99
42) 1,2-Dichloroethane	7.54	62	640225	47.238	ug/l	99
43) Isopropyl Acetate	7.56	43	845267	44.760	ug/l	99
44) Trichloroethene	8.27	130	563448	47.325	ug/l	99
45) 1,2-Dichloropropane	8.56	63	526613	47.858	ug/l	98
46) Dibromomethane	8.65	93	341950	48.467	ug/l	100
47) Bromodichloromethane	8.85	83	683763	50.087	ug/l	98
48) Methyl methacrylate	8.63	41	416883	46.815	ug/l	98
49) 1,4-Dioxane	8.64	88	155621	858.064	ug/l	95
51) 4-Methyl-2-Pentanone	9.45	43	2612663	237.718	ug/l	100
52) Toluene	9.63	92	1261182	47.811	ug/l	99
53) t-1,3-Dichloropropene	9.86	75	714180	50.077	ug/l	99
54) cis-1,3-Dichloropropene	9.30	75	790241	48.289	ug/l	99
55) 1,1,2-Trichloroethane	10.04	97	493852	47.609	ug/l	100
56) Ethyl methacrylate	9.90	69	709412	48.844	ug/l	99
57) 1,3-Dichloropropane	10.19	76	806066	47.121	ug/l	100
59) 2-Hexanone	10.24	43	1805609	242.743	ug/l	100
60) Dibromochloromethane	10.39	129	561118	51.506	ug/l	100
61) 1,2-Dibromoethane	10.50	107	511755	47.809	ug/l	99
64) Tetrachloroethene	10.11	164	559691	45.962	ug/l	98
65) Chlorobenzene	10.93	112	1382206	46.916	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.01	131	534113	48.492	ug/l	100
67) Ethyl Benzene	11.01	91	2396245	47.258	ug/l	98
68) m/p-Xylenes	11.13	106	1795408	96.112	ug/l	99
69) o-Xylene	11.46	106	883059	47.498	ug/l	100
70) Styrene	11.47	104	1281620	44.135	ug/l	99
71) Bromoform	11.64	173	423052	52.434	ug/l #	99
73) Isopropylbenzene	11.76	105	2368484	48.930	ug/l	100
74) N-amyl acetate	11.58	43	643535	42.780	ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.02	83	668873	51.823	ug/l	99
76) 1,2,3-Trichloropropane	12.08	75	583066m	50.346	ug/l	
77) Bromobenzene	12.04	156	619895	43.446	ug/l	98
78) n-propylbenzene	12.11	91	2493887	43.791	ug/l	100
79) 2-Chlorotoluene	12.19	91	1535181	48.316	ug/l	100
80) 1,3,5-Trimethylbenzene	12.26	105	1975964	43.116	ug/l	100
81) trans-1,4-Dichloro-2-buten	11.82	75	184863	45.789	ug/l	97
82) 4-Chlorotoluene	12.30	91	1458410	44.228	ug/l	99
83) tert-Butylbenzene	12.52	119	1730089	47.796	ug/l	99
84) 1,2,4-Trimethylbenzene	12.57	105	1876217	42.355	ug/l	100
85) sec-Butylbenzene	12.70	105	2191507	42.373	ug/l	98
86) p-Isopropyltoluene	12.82	119	1944774	42.853	ug/l	99
87) 1,3-Dichlorobenzene	12.81	146	949856	46.760	ug/l	100
88) 1,4-Dichlorobenzene	12.90	146	895944	46.551	ug/l	99
89) n-Butylbenzene	13.15	91	1382564	44.095	ug/l	99
90) Hexachloroethane	13.41	117	361055	50.050	ug/l	100
91) 1,2-Dichlorobenzene	13.19	146	956133	47.135	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	13.81	75	96406	46.199	ug/l	98
93) 1,2,4-Trichlorobenzene	14.45	180	386744	45.552	ug/l	99

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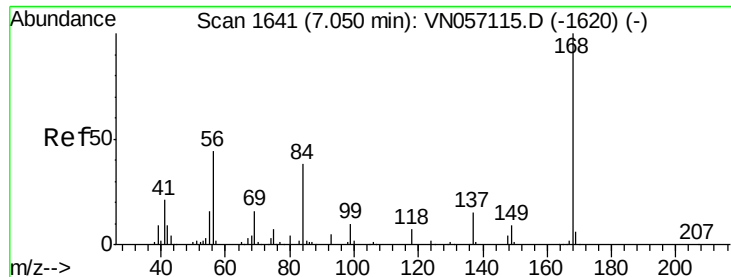
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) Hexachlorobutadiene	14.55	225	364936	51.677	ug/l	99
95) Naphthalene	14.67	128	733637	43.866	ug/l	100
96) 1,2,3-Trichlorobenzene	14.83	180	373555	42.900	ug/l	100

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 1642

Delta R.T. 0.00 min

Lab File: VN057160.D

Acq: 9 Aug 2019 20:48

Instrument :

MSVOA_N

ClientSampleId :

MW-4R_080819MSD

Tot Ion:168 Resp: 1106926

Ion Ratio Lower Upper

168 100

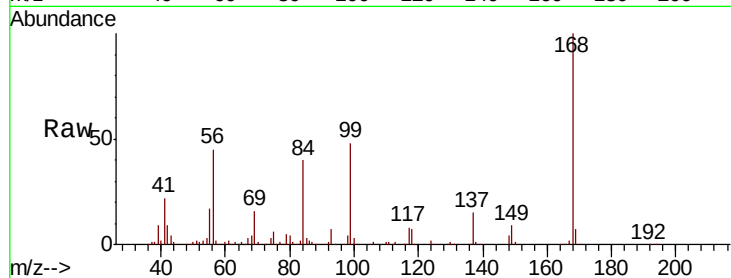
99 48.1 38.6 57.8

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Abundance Ion 167.90 (167.60 to 168.60): VN057115.D (-1620) (-)

Ion 98.90 (98.60 to 99.60): VN057115.D (-1620) (-)

7.05

400000

300000

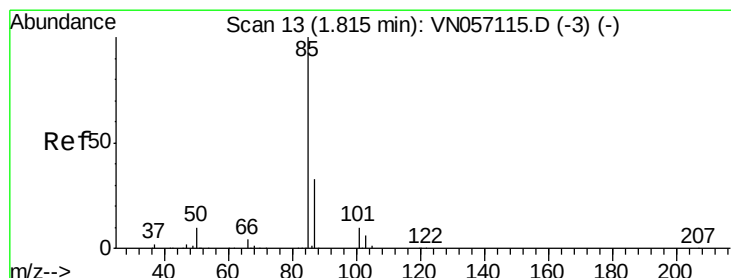
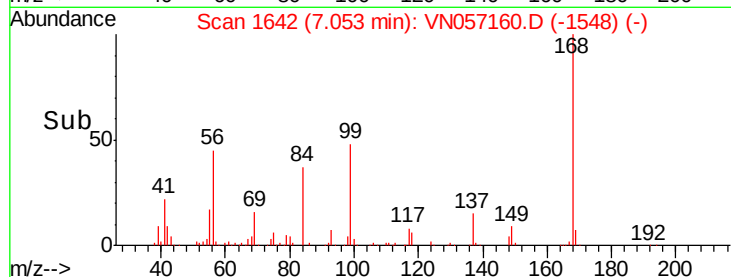
200000

100000

0

7.00 7.10

Time-->



#2

Dichlorodifluoromethane

Concen: 42.349 ug/l

RT: 1.82 min Scan# 14

Delta R.T. 0.00 min

Lab File: VN057160.D

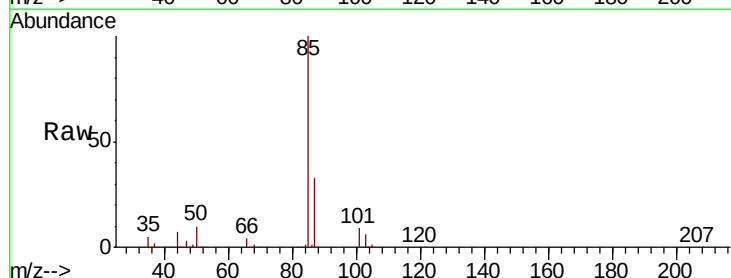
Acq: 9 Aug 2019 20:48

Tgt Ion: 85 Resp: 376771

Ion Ratio Lower Upper

85 100

87 32.7 16.7 50.0



Abundance Ion 84.90 (84.60 to 85.60): VN057115.D (-3) (-)

Ion 86.90 (86.60 to 87.60): VN057115.D (-3) (-)

1.82

300000

250000

200000

150000

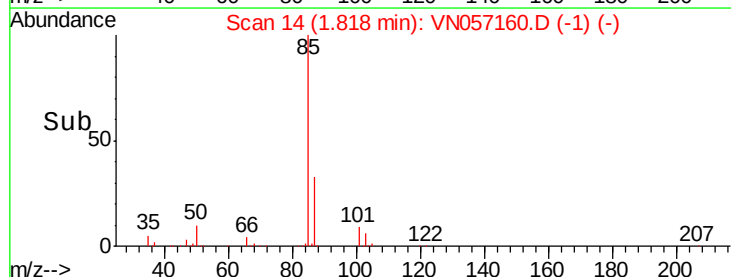
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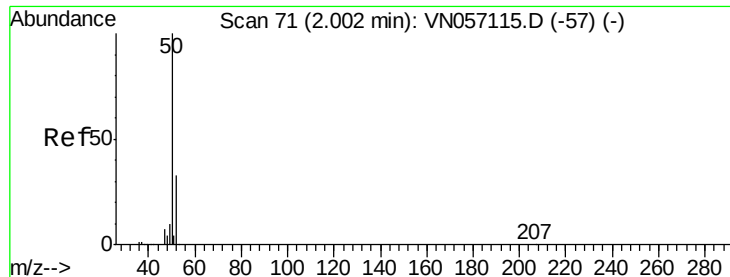
50000

0

1.75 1.80 1.85 1.90

Time-->





#3

Chloromethane

Concen: 39.714 ug/l

RT: 2.00 min Scan# 69

Delta R.T. -0.01 min

Lab File: VN057160.D

Acq: 9 Aug 2019 20:48

Instrument :

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ClientSampleId :

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Tot Ion: 50 Resp: 469457

Ion Ratio Lower Upper

50 100

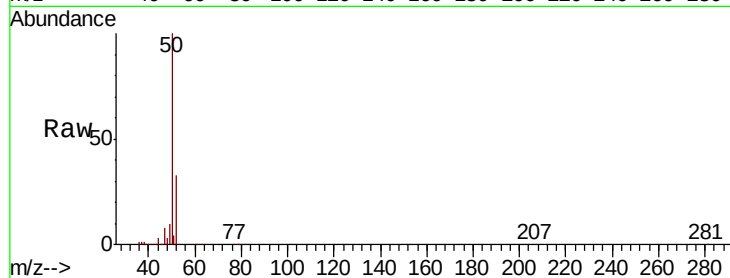
52 32.6 26.1 39.1

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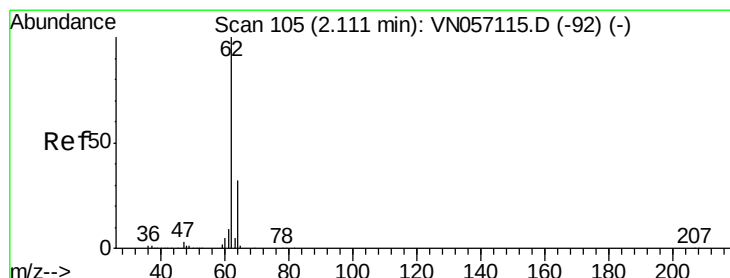
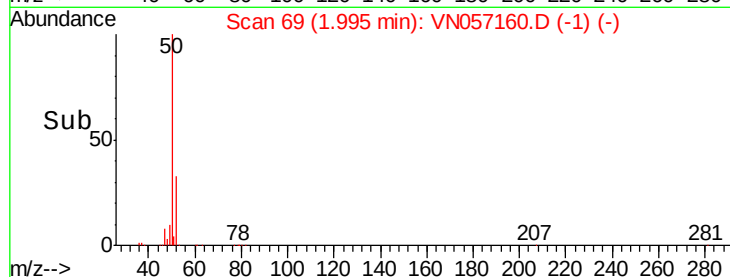
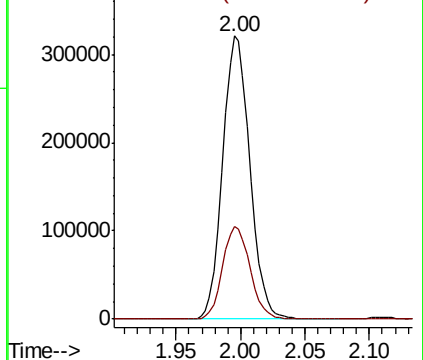
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Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO



#4

Vinyl Chloride

Concen: 44.366 ug/l

RT: 2.11 min Scan# 105

Delta R.T. -0.00 min

Lab File: VN057160.D

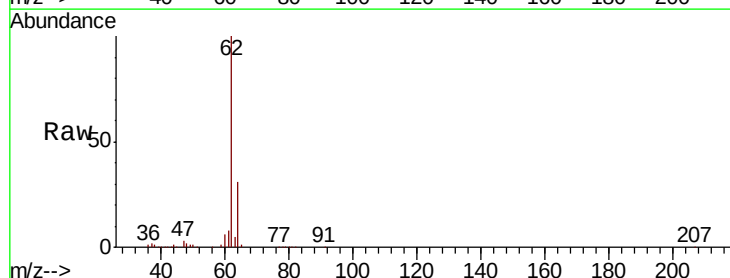
Acq: 9 Aug 2019 20:48

Tgt Ion: 62 Resp: 487477

Ion Ratio Lower Upper

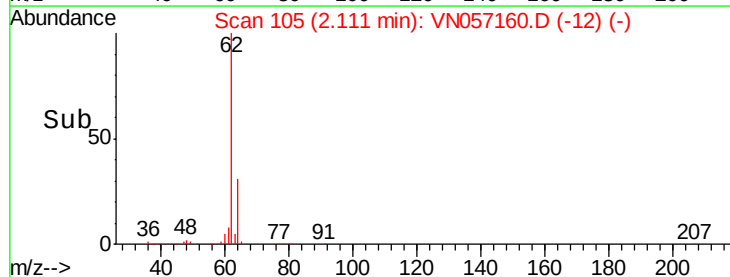
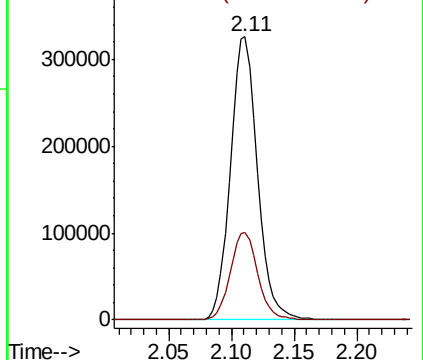
62 100

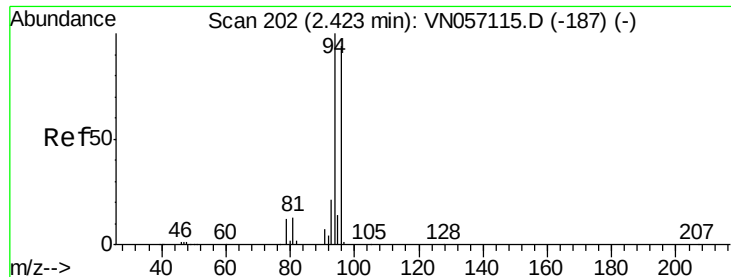
64 31.0 25.4 38.0



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO





#5

Bromomethane

Concen: 45.226 ug/l

RT: 2.43 min Scan# 205

Delta R.T. 0.01 min

Lab File: VN057160.D

Acq: 9 Aug 2019 20:48

Instrument :

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ClientSampleId :

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Tot Ion: 94 Resp: 337644

Ion Ratio Lower Upper

94 100

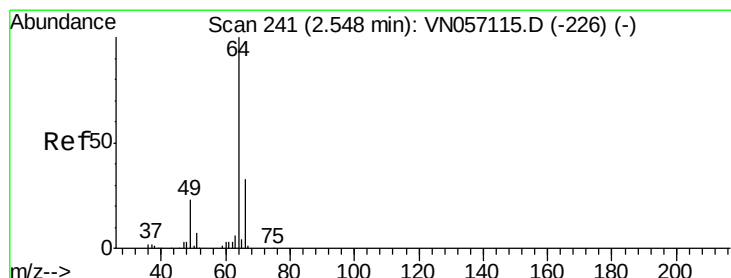
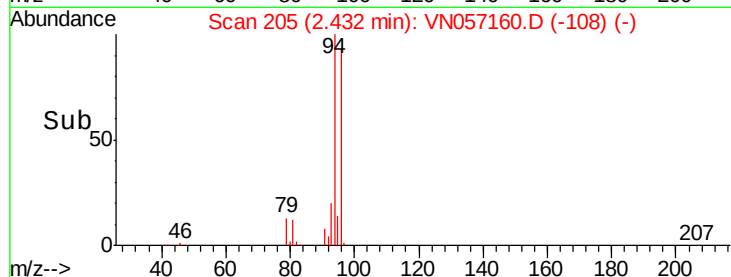
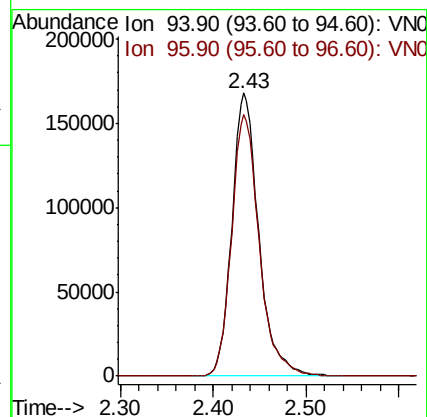
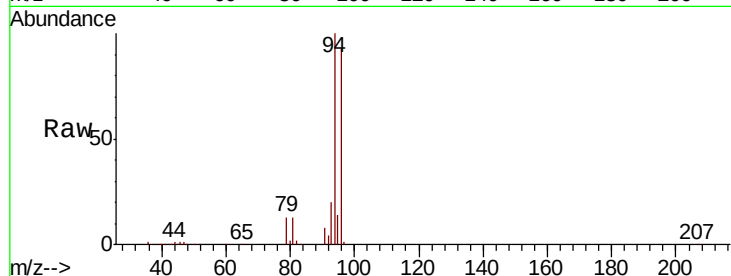
96 92.5 75.0 112.4

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#6

Chloroethane

Concen: 45.231 ug/l

RT: 2.55 min Scan# 243

Delta R.T. 0.01 min

Lab File: VN057160.D

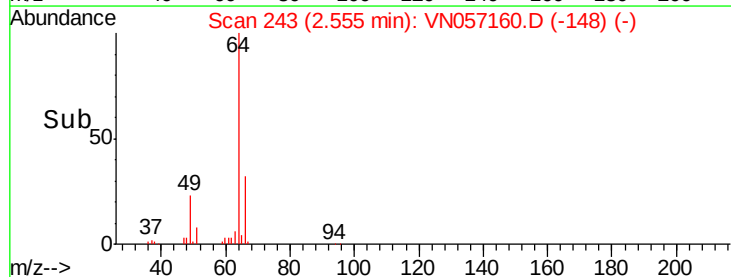
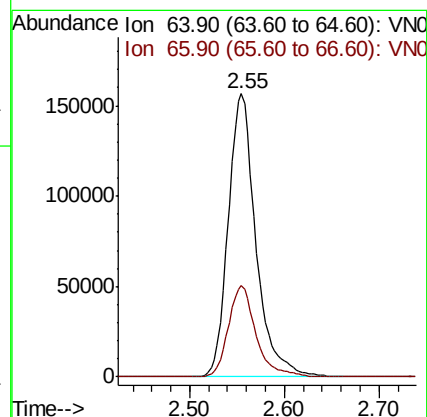
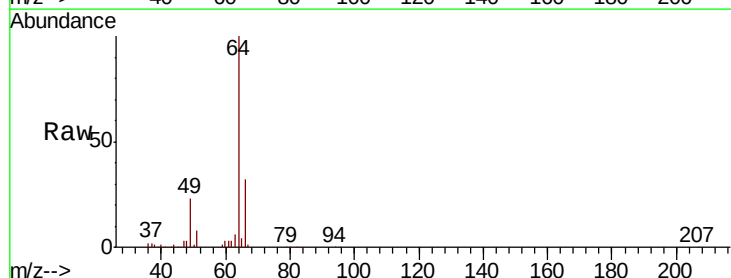
Acq: 9 Aug 2019 20:48

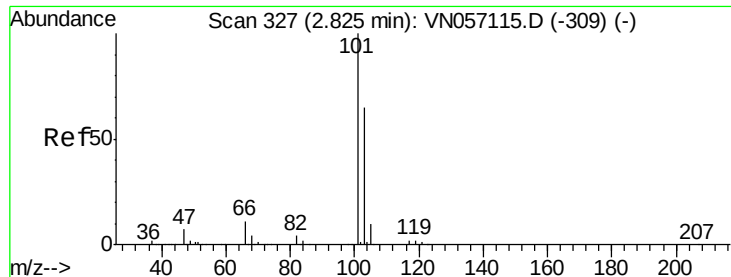
Tgt Ion: 64 Resp: 318770

Ion Ratio Lower Upper

64 100

66 32.1 26.2 39.4





#7

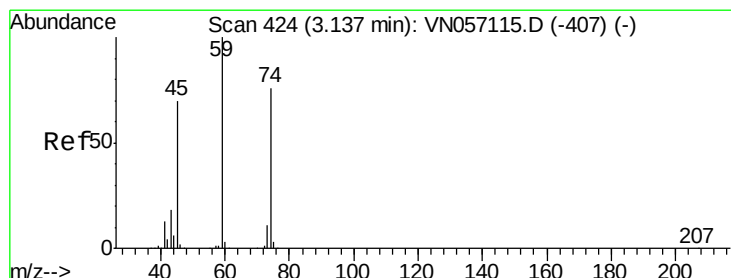
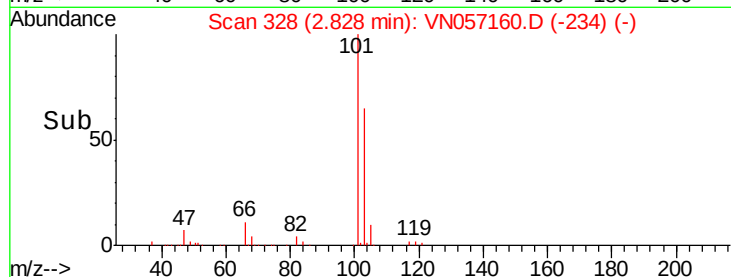
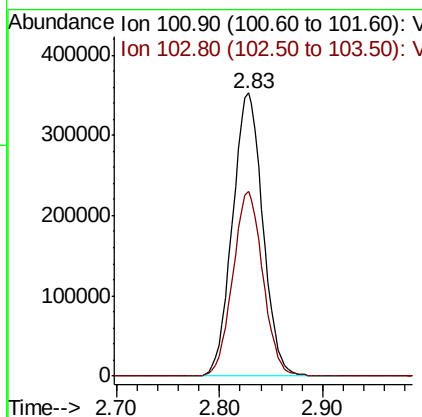
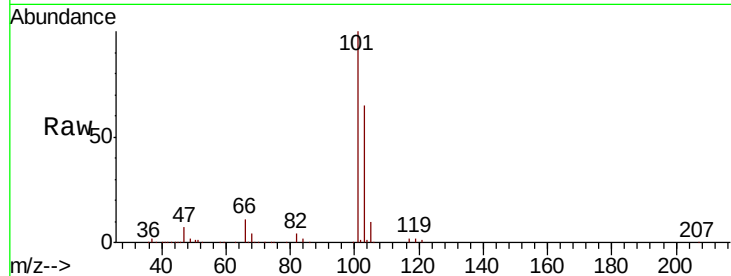
Trichlorofluoromethane
 Concen: 45.703 ug/l
 RT: 2.83 min Scan# 328
 Delta R.T. 0.00 min
 Lab File: VN057160.D
 Acq: 9 Aug 2019 20:48

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Tot Ion	Ratio	Lower	Upper
101	100		
103	65.3	52.2	78.4

Manual Integrations
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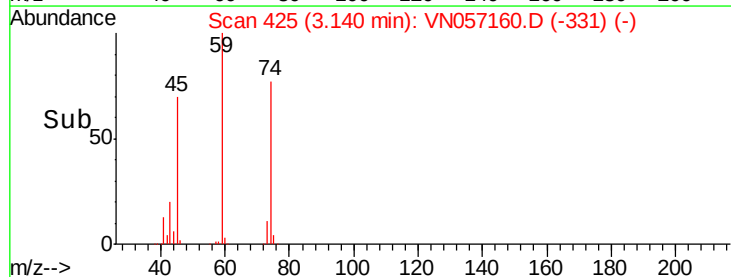
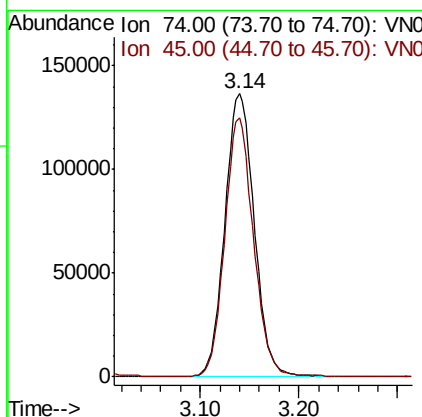
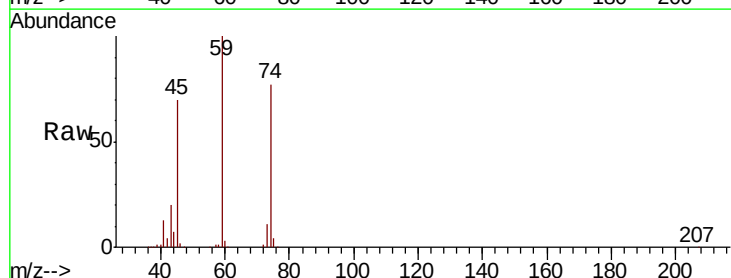
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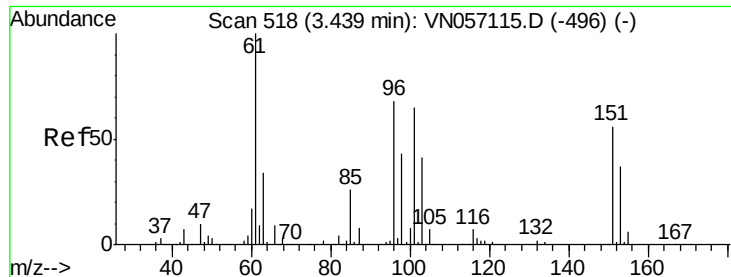


#8

Diethyl Ether
 Concen: 46.788 ug/l
 RT: 3.14 min Scan# 425
 Delta R.T. 0.00 min
 Lab File: VN057160.D
 Acq: 9 Aug 2019 20:48

Tgt Ion	Ratio	Lower	Upper
74	100		
45	89.2	46.3	138.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 45.064 ug/l

RT: 3.44 min Scan# 518

Delta R.T. -0.00 min

Lab File: VN057160.D

Acq: 9 Aug 2019 20:48

Instrument :

MSVOA_N

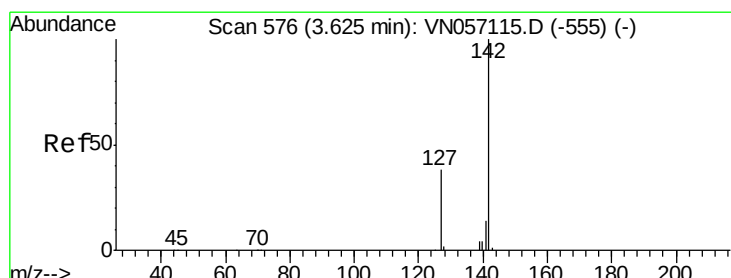
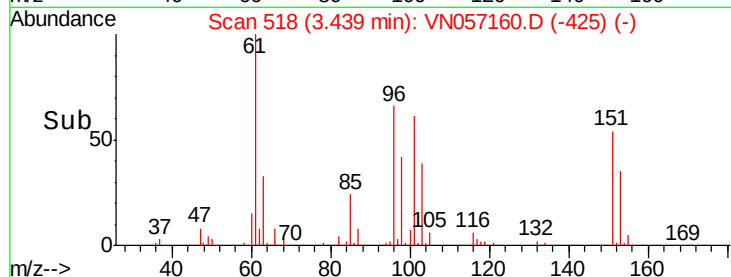
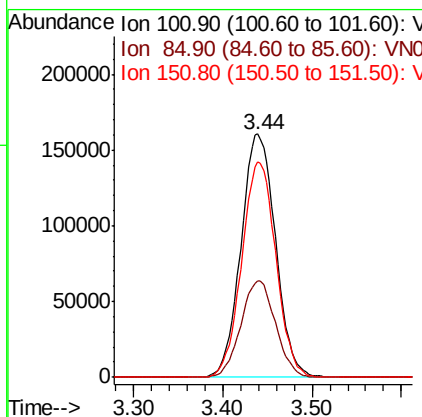
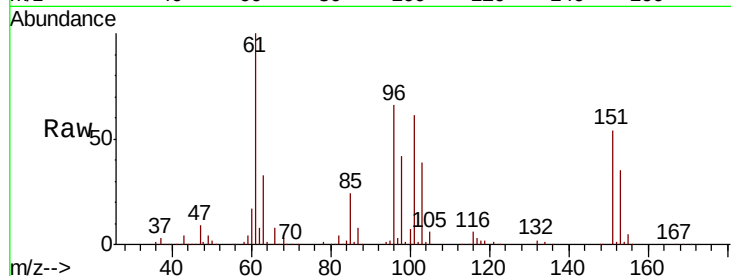
ClientSampleId :

MW-4R_080819MSD

Tot Ion:	101	Resp:	431459
Ion Ratio	Lower	Upper	
101	100		
85	39.8	32.3	48.5
151	87.6	69.4	104.0

Manual Integrations
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#10

Methyl Iodide

Concen: 45.276 ug/l

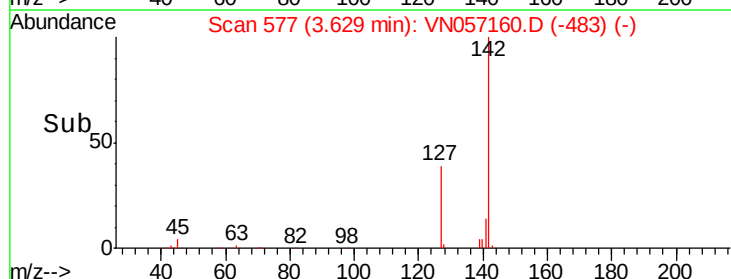
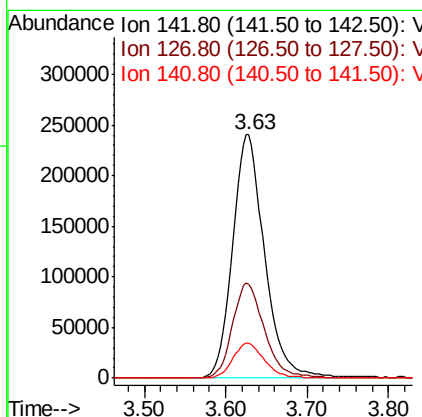
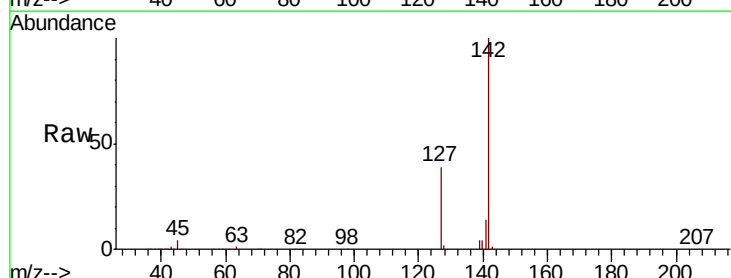
RT: 3.63 min Scan# 577

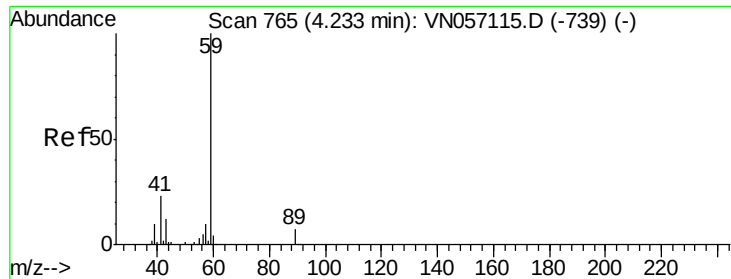
Delta R.T. 0.00 min

Lab File: VN057160.D

Acq: 9 Aug 2019 20:48

Tgt Ion:	142	Resp:	655065
Ion Ratio	Lower	Upper	
142	100		
127	39.1	31.0	46.6
141	14.2	11.2	16.8





#11

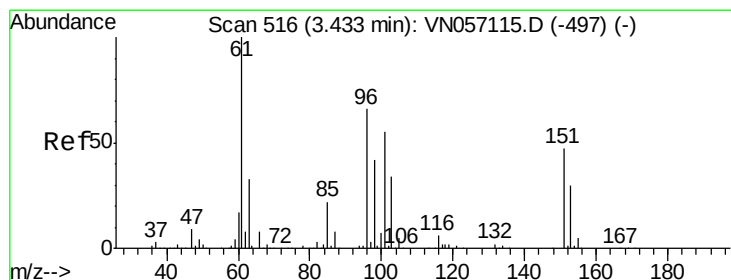
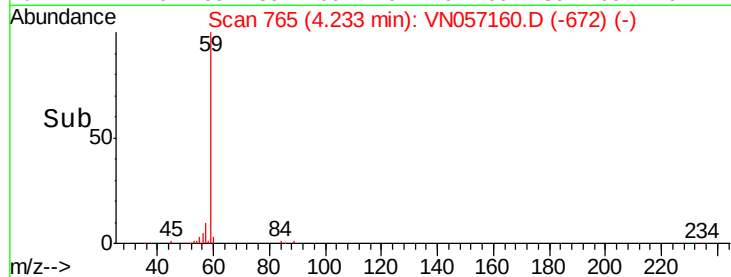
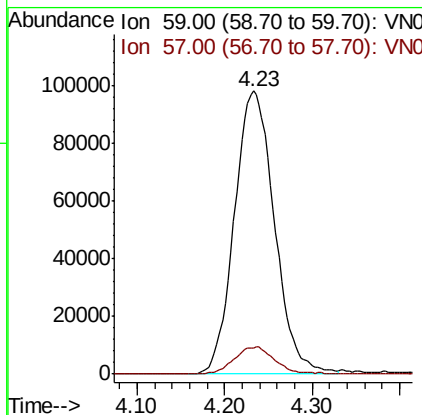
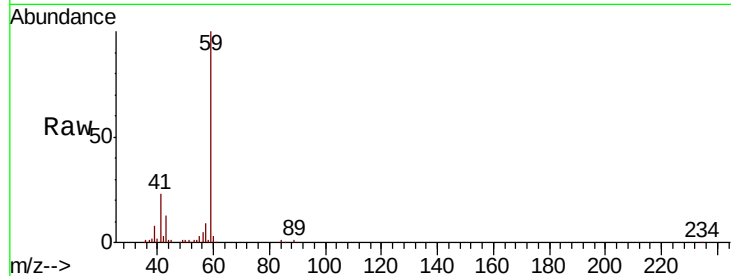
Tert butyl alcohol
 Concen: 192.291 ug/l
 RT: 4.23 min Scan# 765
 Delta R.T. -0.00 min
 Lab File: VN057160.D
 Acq: 9 Aug 2019 20:48

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-4R_080819MSD

Tot Ion	59	Resp	311508
Ion Ratio	100	Lower	Upper
59	100		
57	9.7	7.9	11.9

Manual Integrations
 APPROVED

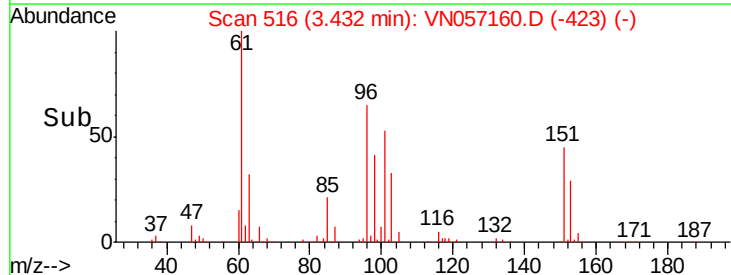
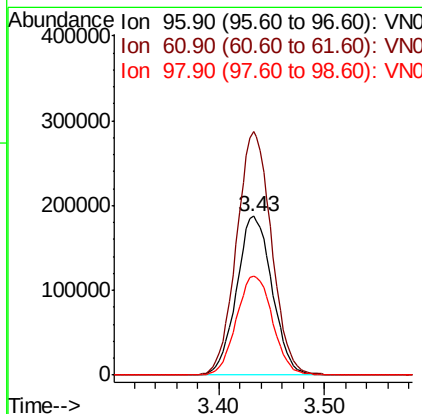
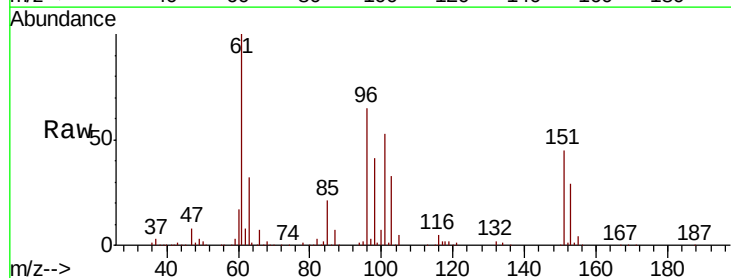
MMDadoda
 8/12/2019 3:12:13 PM

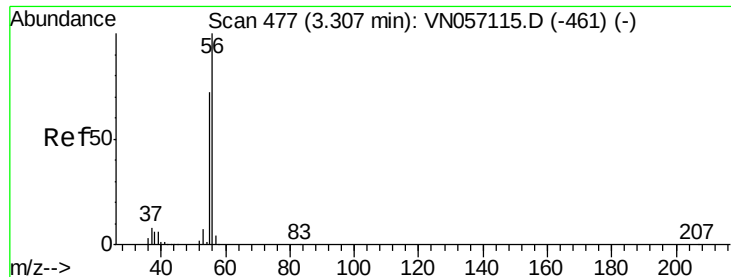


#12

1,1-Dichloroethene
 Concen: 46.432 ug/l
 RT: 3.43 min Scan# 516
 Delta R.T. -0.00 min
 Lab File: VN057160.D
 Acq: 9 Aug 2019 20:48

Tgt Ion	96	Resp	437340
Ion Ratio	100	Lower	Upper
96	100		
61	153.6	121.0	181.6
98	62.6	50.8	76.2





#13

Acrolein

Concen: 175.370 ug/l

RT: 3.31 min Scan# 477

Delta R.T. -0.00 min

Lab File: VN057160.D

Acq: 9 Aug 2019 20:48

Instrument :

MSVOA_N

ClientSampleId :

MW-4R_080819MSD

Tot Ion: 56 Resp: 179725

Ion Ratio Lower Upper

56 100

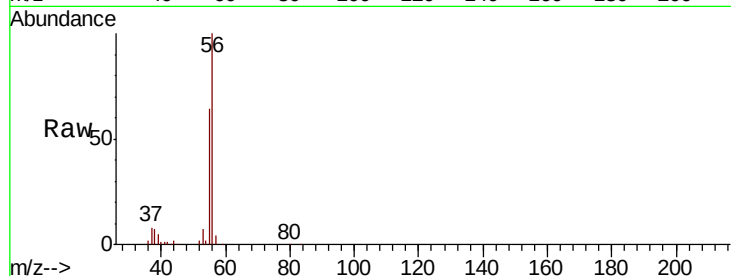
55 68.4 57.7 86.5

Manual Integrations

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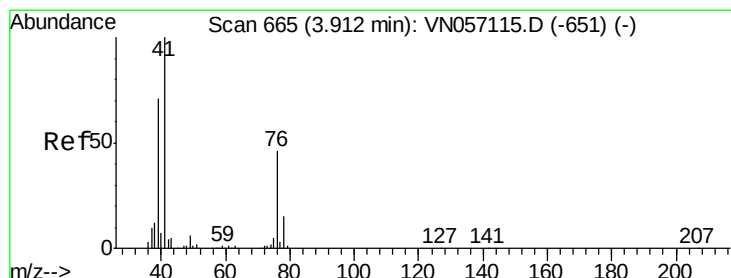
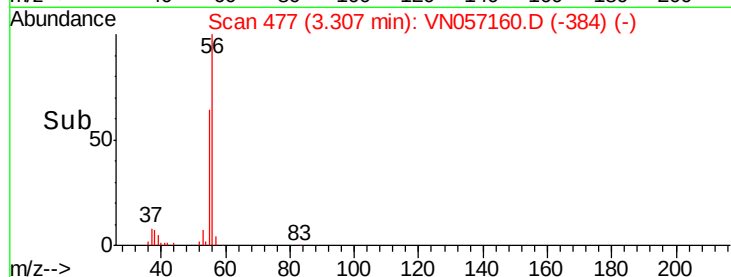
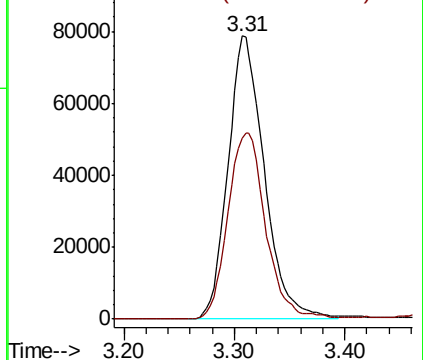
MMDadoda

8/12/2019 3:12:13 PM



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Allyl chloride

Concen: 49.580 ug/l

RT: 3.91 min Scan# 665

Delta R.T. -0.00 min

Lab File: VN057160.D

Acq: 9 Aug 2019 20:48

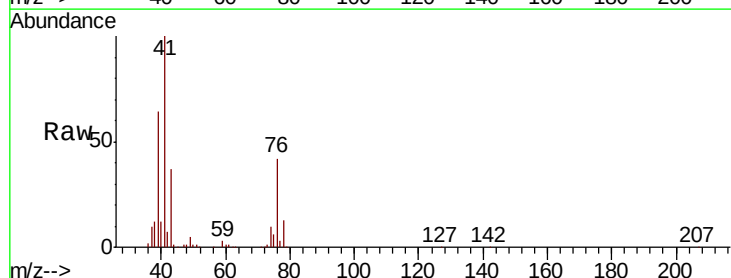
Tgt Ion: 41 Resp: 678657

Ion Ratio Lower Upper

41 100

39 60.2 51.1 76.7

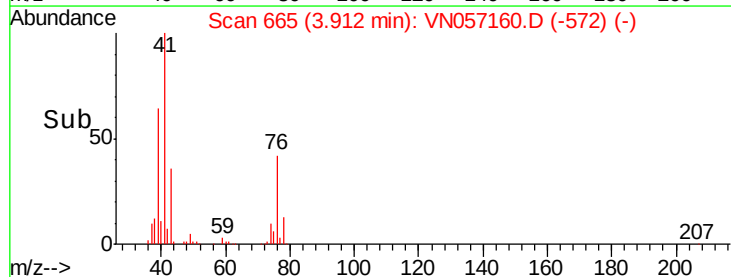
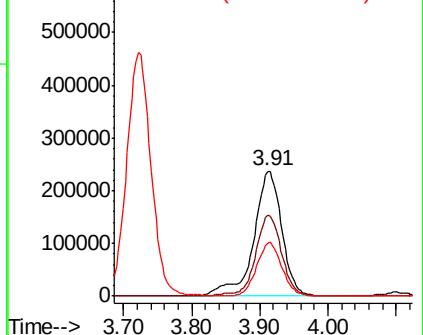
76 38.1 32.8 49.2

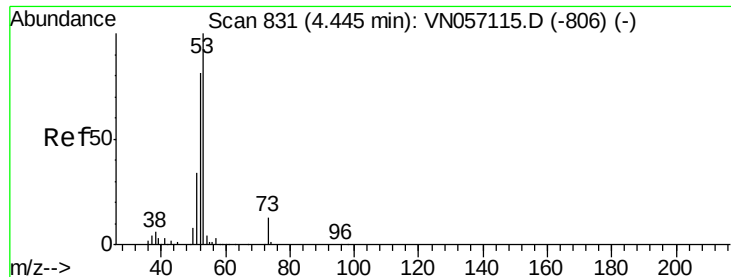


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





#15

Acrylonitrile

Concen: 232.072 ug/l

RT: 4.44 min Scan# 830

Delta R.T. -0.00 min

Lab File: VN057160.D

Acq: 9 Aug 2019 20:48

Instrument :

MSVOA_N

ClientSampleId :

MW-4R_080819MSD

Tot Ion: 53 Resp: 1017487

Ion Ratio Lower Upper

53 100

52 83.9 64.9 97.3

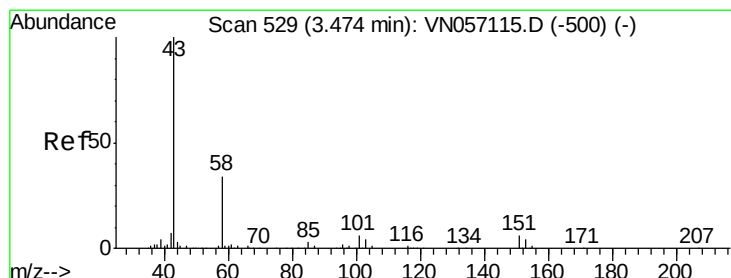
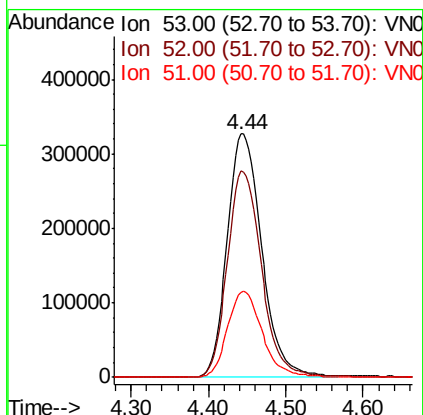
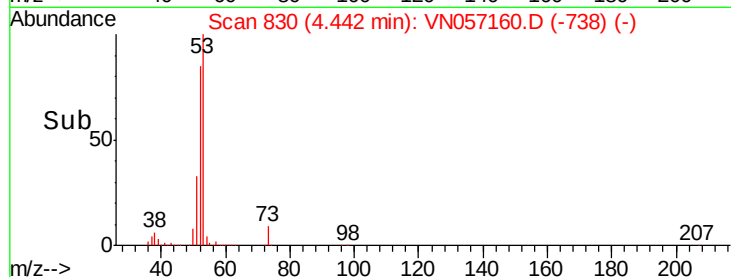
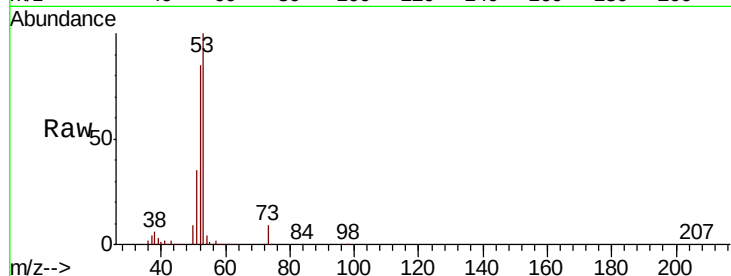
51 35.6 27.8 41.6

Manual Integrations

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#16

Acetone

Concen: 221.337 ug/l

RT: 3.47 min Scan# 529

Delta R.T. -0.00 min

Lab File: VN057160.D

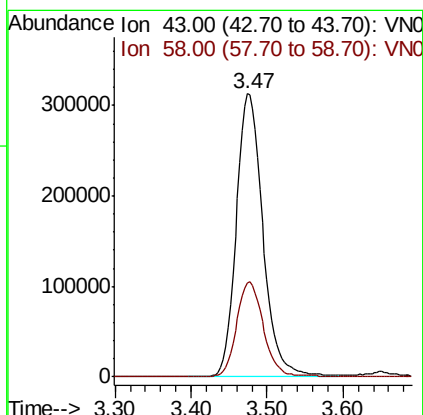
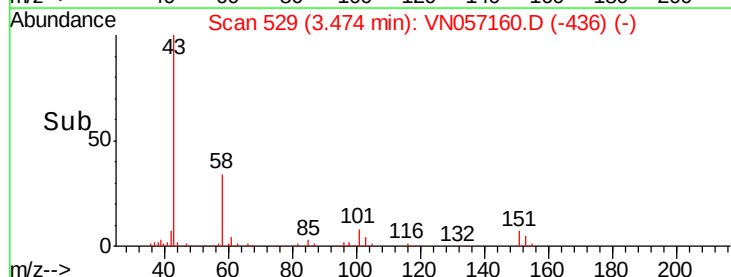
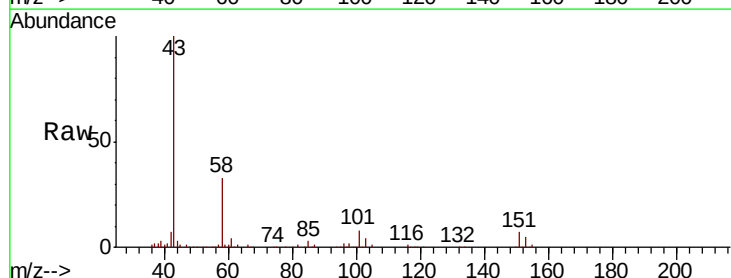
Acq: 9 Aug 2019 20:48

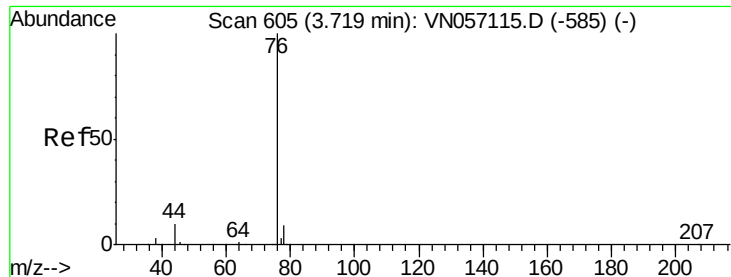
Tgt Ion: 43 Resp: 760948

Ion Ratio Lower Upper

43 100

58 33.2 27.4 41.2





#17

Carbon Disulfide

Concen: 45.770 ug/l

RT: 3.72 min Scan# 606

Delta R.T. 0.00 min

Lab File: VN057160.D

Acq: 9 Aug 2019 20:48

Instrument :

MSVOA_N

ClientSampleId :

MW-4R_080819MSD

Tot Ion: 76 Resp: 1146886

Ion Ratio Lower Upper

76 100

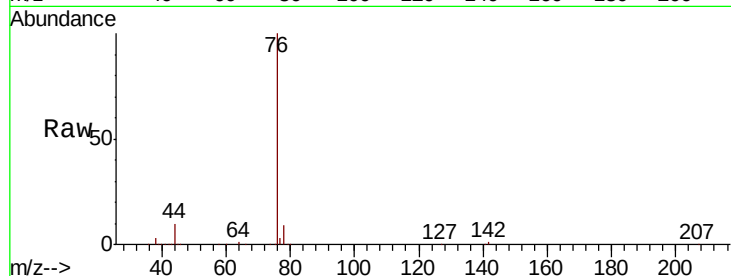
78 9.3 7.0 10.6

Manual Integrations

APPROVED

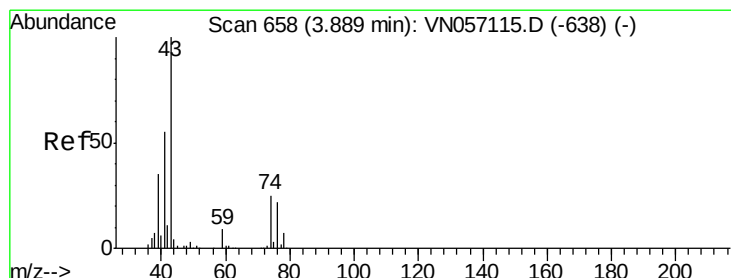
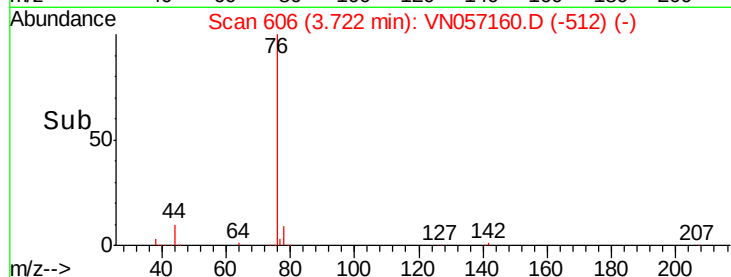
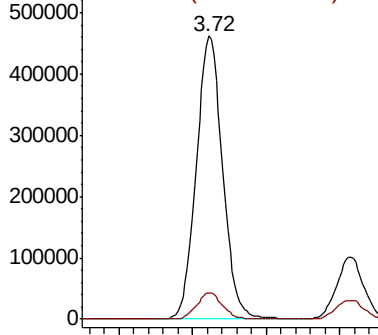
MMDadoda

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Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#18

Methyl Acetate

Concen: 43.311 ug/l

RT: 3.89 min Scan# 659

Delta R.T. 0.00 min

Lab File: VN057160.D

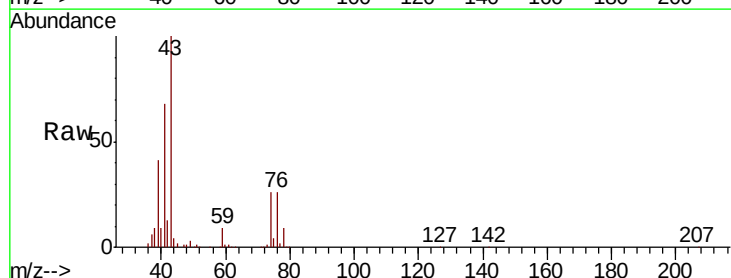
Acq: 9 Aug 2019 20:48

Tgt Ion: 43 Resp: 444549

Ion Ratio Lower Upper

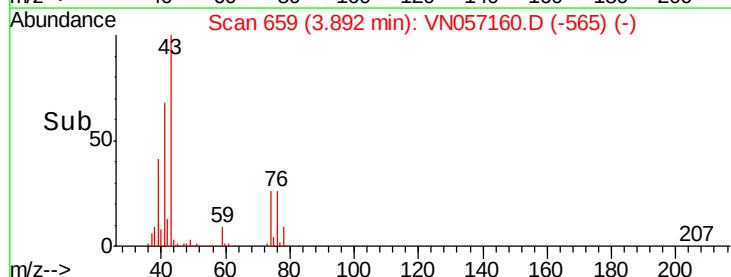
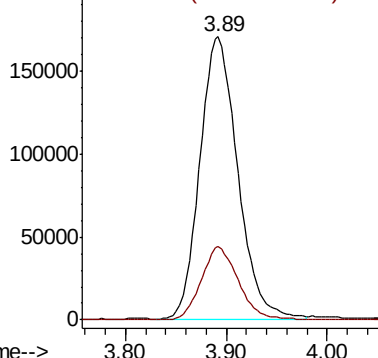
43 100

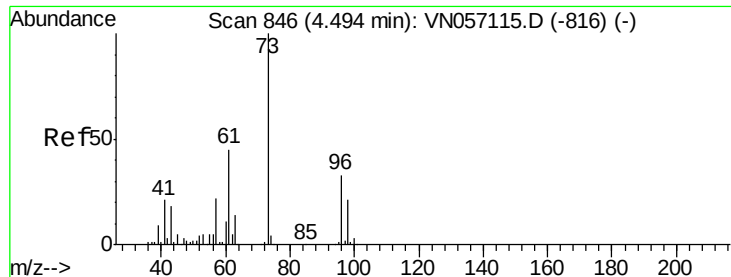
74 25.5 20.2 30.4



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





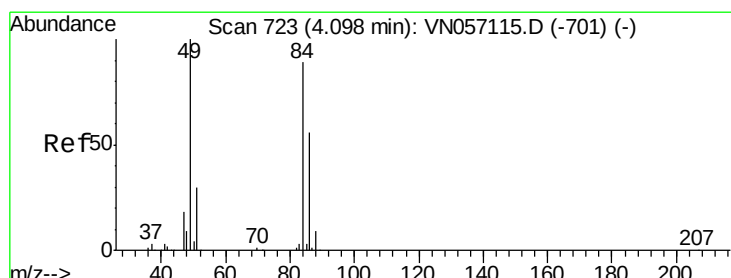
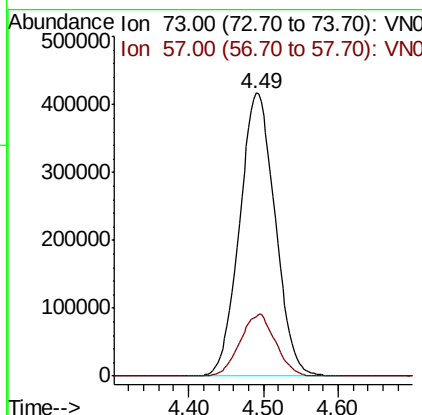
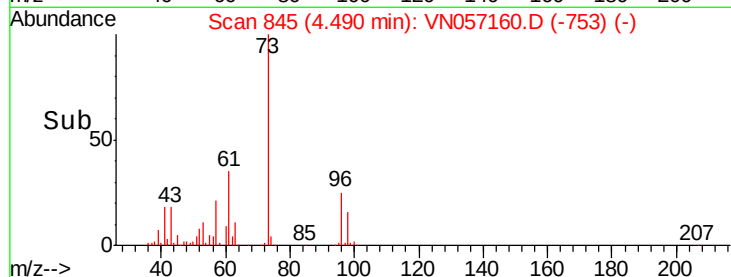
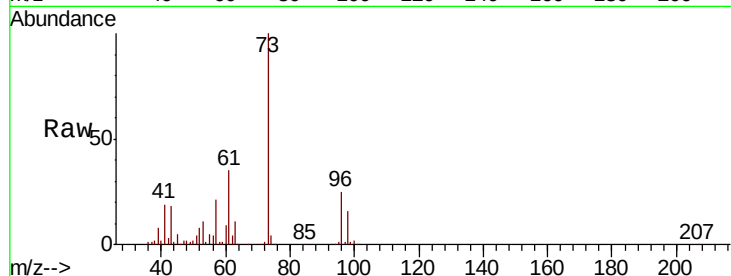
#19
Methyl tert-butyl Ether
Concen: 48.438 ug/l
RT: 4.49 min Scan# 845
Delta R.T. -0.00 min
Lab File: VN057160.D
Acq: 9 Aug 2019 20:48

Instrument :
MSVOA_N
ClientSampleId :
MW-4R_080819MSD

Tot Ion: 73 Resp: 1377361
Ion Ratio Lower Upper
73 100
57 21.2 18.0 27.0

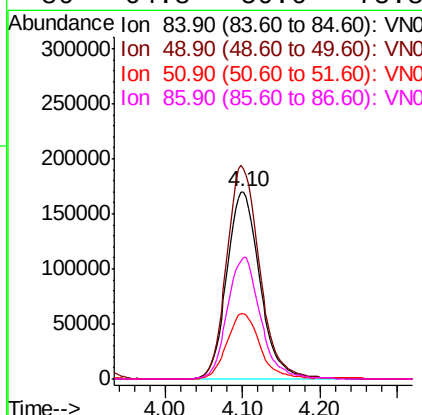
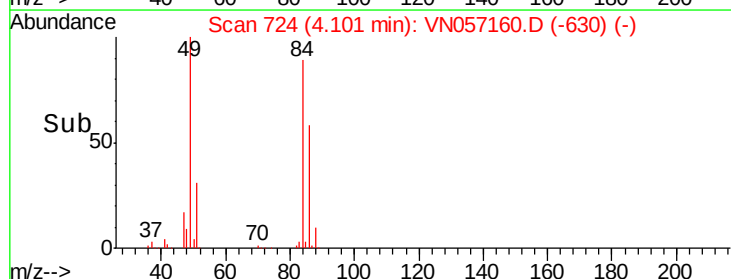
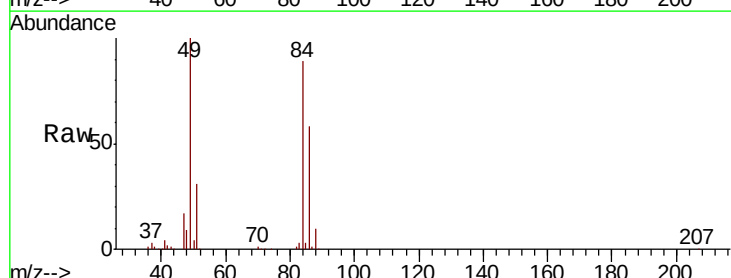
Manual Integrations
APPROVED

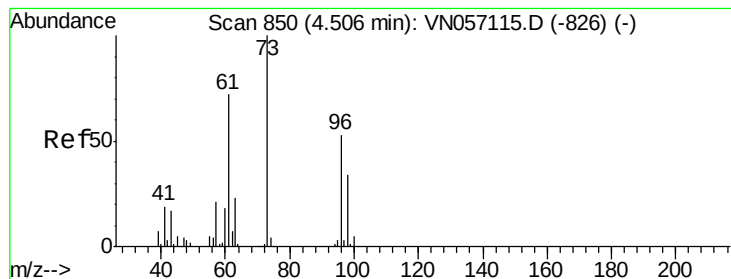
MMDadoda
8/12/2019 3:12:13 PM



#20
Methylene Chloride
Concen: 44.478 ug/l
RT: 4.10 min Scan# 724
Delta R.T. 0.00 min
Lab File: VN057160.D
Acq: 9 Aug 2019 20:48

Tgt Ion: 84 Resp: 504658
Ion Ratio Lower Upper
84 100
49 112.1 89.5 134.3
51 34.9 27.2 40.8
86 64.8 50.6 75.8





#21

trans-1,2-Dichloroethene

Concen: 46.180 ug/l

RT: 4.51 min Scan# 851

Delta R.T. 0.00 min

Lab File: VN057160.D

Acq: 9 Aug 2019 20:48

Instrument :

MSVOA_N

ClientSampleId :

MW-4R_080819MSD

Tot Ion: 96 Resp: 473820

Ion Ratio Lower Upper

96 100

61 129.6 108.1 162.1

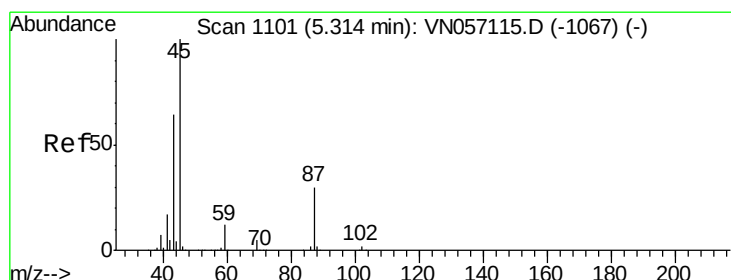
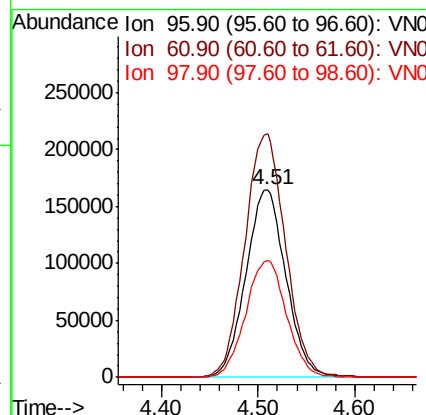
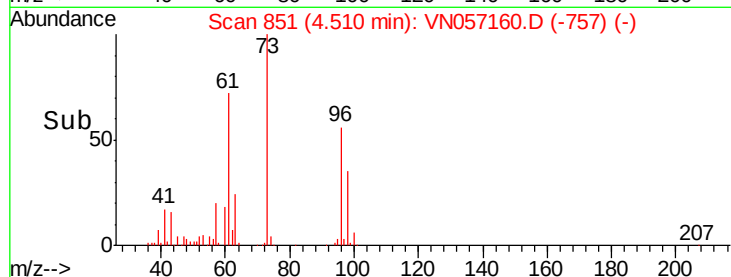
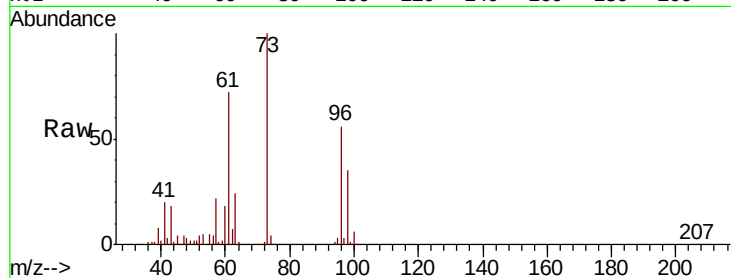
98 62.4 50.5 75.7

Manual Integrations

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MMDadoda

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#22

Diisopropyl ether

Concen: 46.890 ug/l

RT: 5.32 min Scan# 1102

Delta R.T. 0.00 min

Lab File: VN057160.D

Acq: 9 Aug 2019 20:48

Tgt Ion: 45 Resp: 1399980

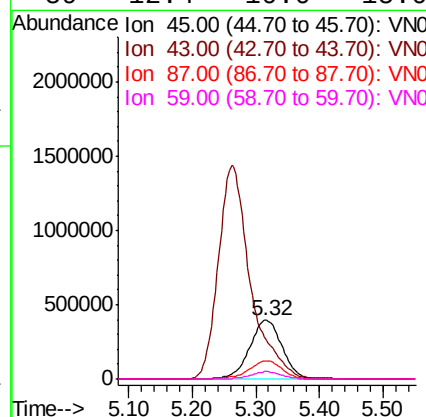
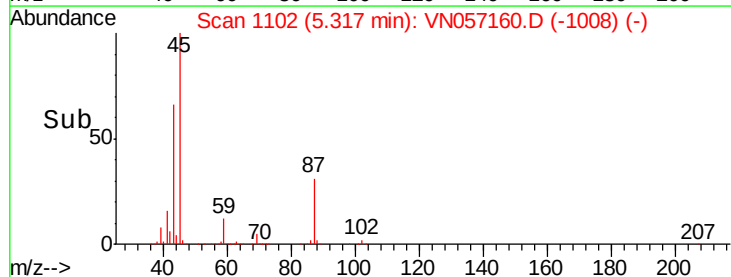
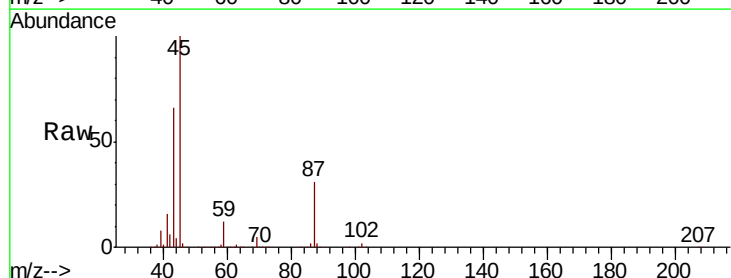
Ion Ratio Lower Upper

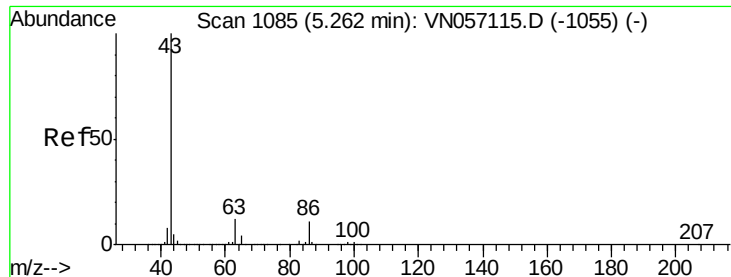
45 100

43 64.7 54.1 81.1

87 31.0 24.0 36.0

59 12.4 10.0 15.0





#23

Vinyl Acetate

Concen: 219.738 ug/l

RT: 5.26 min Scan# 1085

Delta R.T. -0.00 min

Lab File: VN057160.D

Acq: 9 Aug 2019 20:48

Instrument :

MSVOA_N

ClientSampleId :

MW-4R_080819MSD

Tot Ion: 43 Resp: 5023899

Ion Ratio Lower Upper

43 100

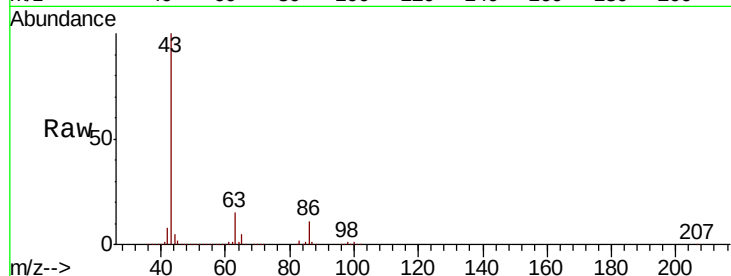
86 11.4 9.2 13.8

Manual Integrations

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MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VN057160.D (-992) (-)

Ion 86.00 (85.70 to 86.70): VN057160.D (-992) (-)

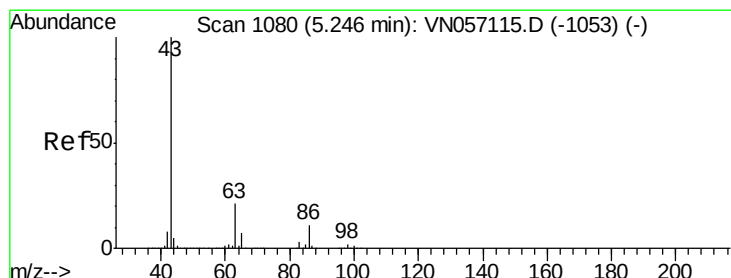
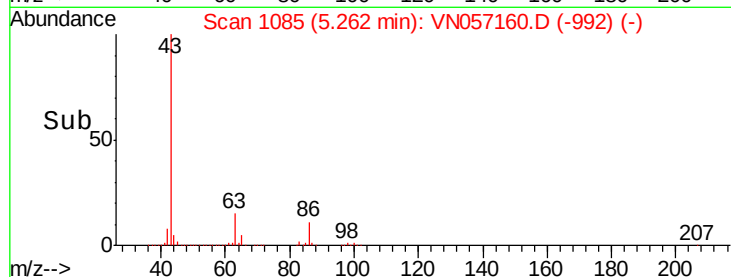
1500000

1000000

500000

0

Time-->



#24

1,1-Dichloroethane

Concen: 46.498 ug/l

RT: 5.25 min Scan# 1080

Delta R.T. -0.00 min

Lab File: VN057160.D

Acq: 9 Aug 2019 20:48

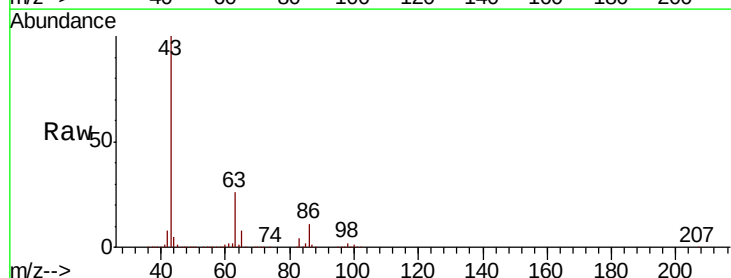
Tgt Ion: 63 Resp: 853414

Ion Ratio Lower Upper

63 100

98 6.5 3.8 11.2

100 4.6 2.1 6.3



Abundance Ion 62.90 (62.60 to 63.60): VN057160.D (-987) (-)

Ion 97.90 (97.60 to 98.60): VN057160.D (-987) (-)

Ion 99.90 (99.60 to 100.60): VN057160.D (-987) (-)

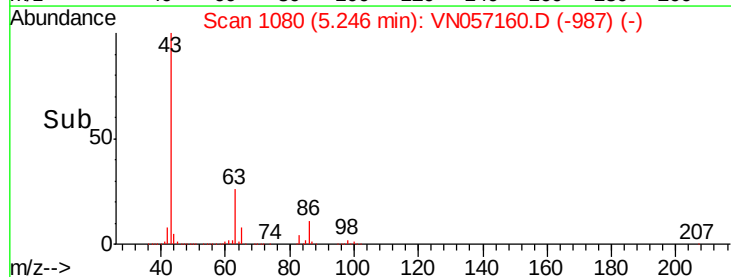
300000

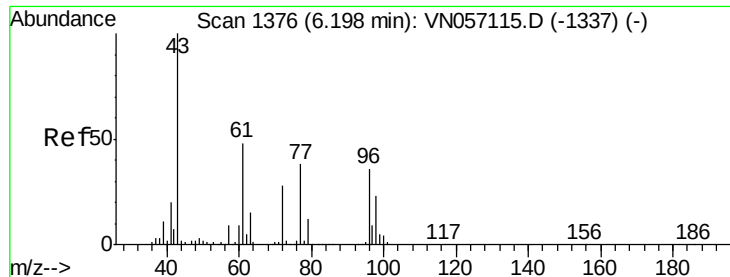
200000

100000

0

Time-->





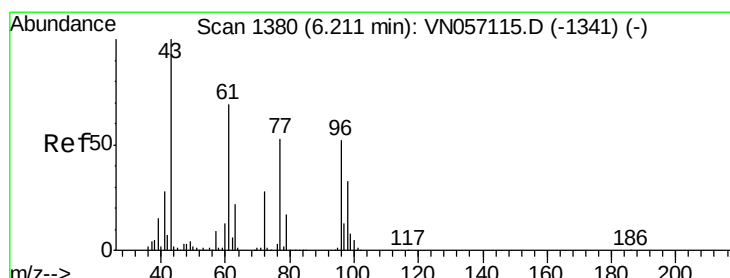
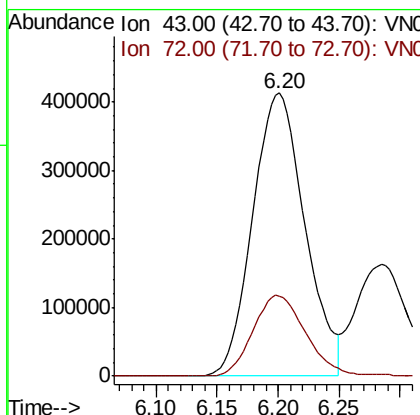
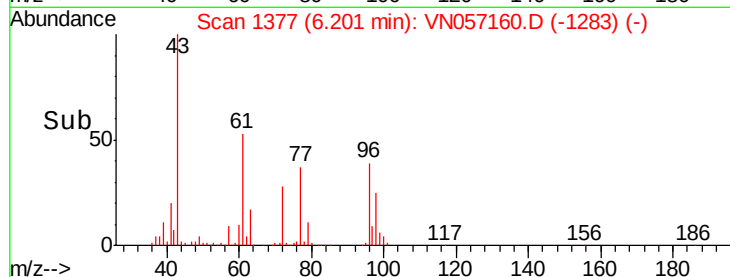
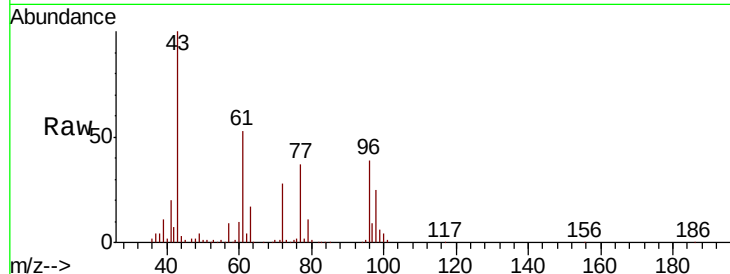
#25
2-Butanone
Concen: 233.249 ug/l
RT: 6.20 min Scan# 1377
Delta R.T. 0.00 min
Lab File: VN057160.D
Acq: 9 Aug 2019 20:48

Instrument :
MSVOA_N
ClientSampleId :
MW-4R_080819MSD

Tot Ion: 43 Resp: 1225182
Ion Ratio Lower Upper
43 100
72 28.4 22.2 33.4

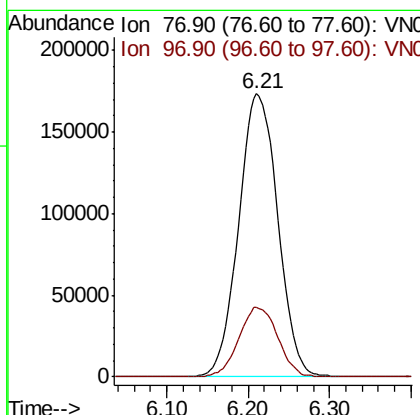
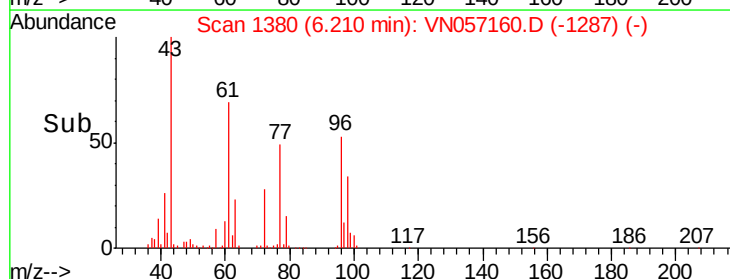
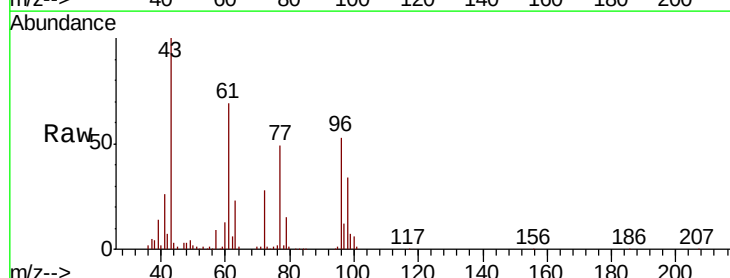
Manual Integrations
APPROVED

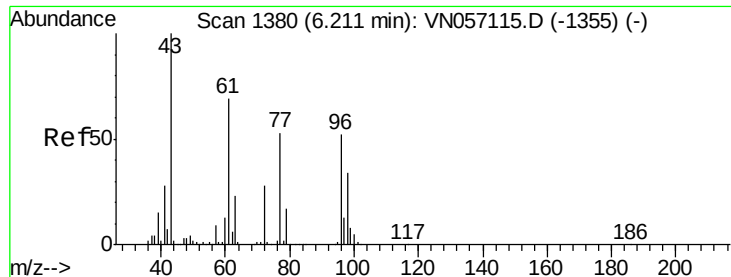
MMDadoda
8/12/2019 3:12:13 PM



#26
2,2-Dichloropropane
Concen: 43.073 ug/l
RT: 6.21 min Scan# 1380
Delta R.T. -0.00 min
Lab File: VN057160.D
Acq: 9 Aug 2019 20:48

Tgt Ion: 77 Resp: 575159
Ion Ratio Lower Upper
77 100
97 24.6 12.3 36.8





#27

cis-1,2-Dichloroethene

Concen: 47.028 ug/l

RT: 6.21 min Scan# 1380

Delta R.T. -0.00 min

Lab File: VN057160.D

Acq: 9 Aug 2019 20:48

Instrument :

MSVOA_N

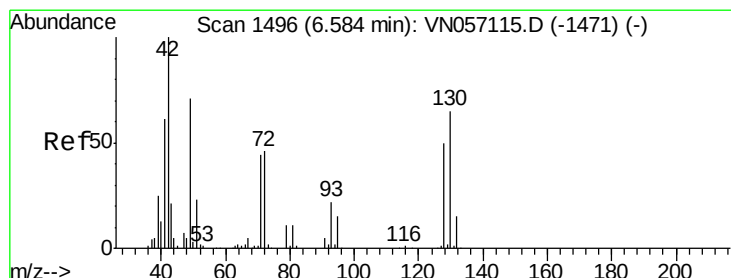
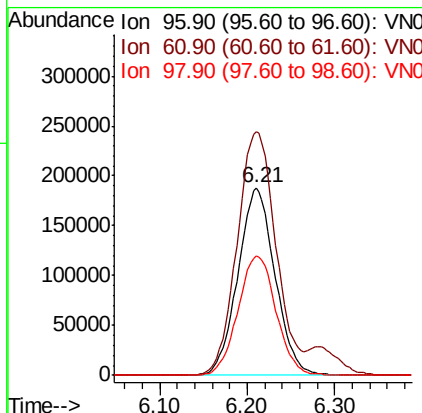
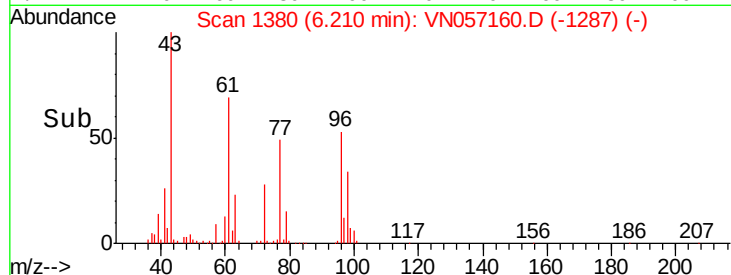
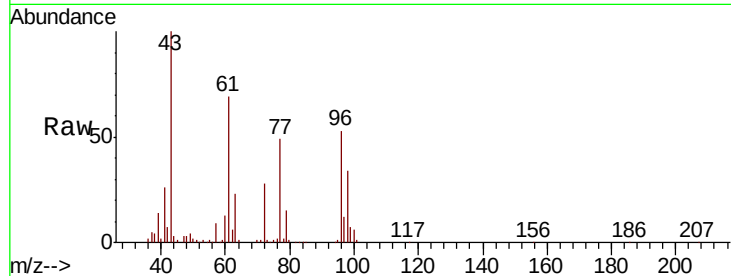
ClientSampleId :

MW-4R_080819MSD

Tot Ion:	96	Resp:	552781
Ion	Ratio	Lower	Upper
96	100		
61	135.7	0.0	273.4
98	65.4	0.0	130.4

Manual Integrations
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8/12/2019 3:12:13 PM



#28

Bromochloromethane

Concen: 50.302 ug/l

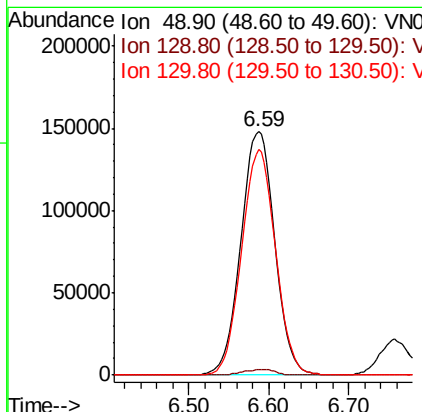
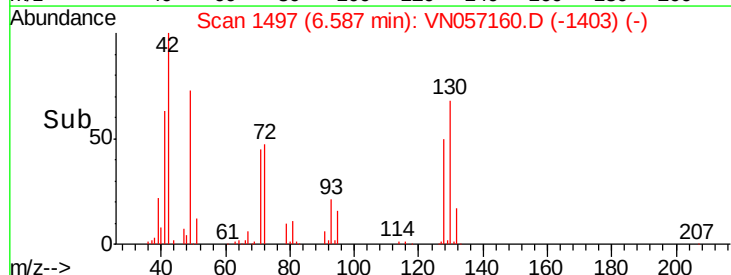
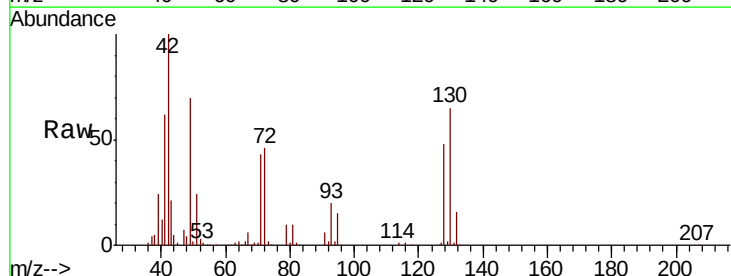
RT: 6.59 min Scan# 1497

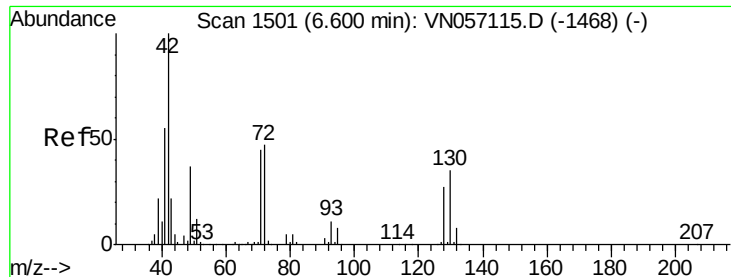
Delta R.T. 0.00 min

Lab File: VN057160.D

Acq: 9 Aug 2019 20:48

Tgt Ion:	49	Resp:	424663
Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	4.8
130	92.4	73.8	110.8





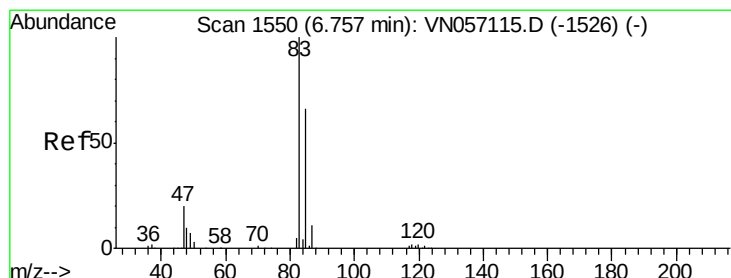
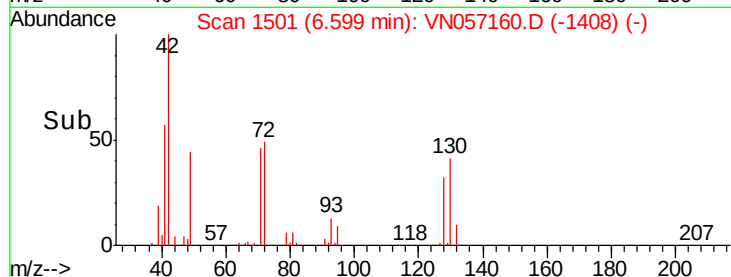
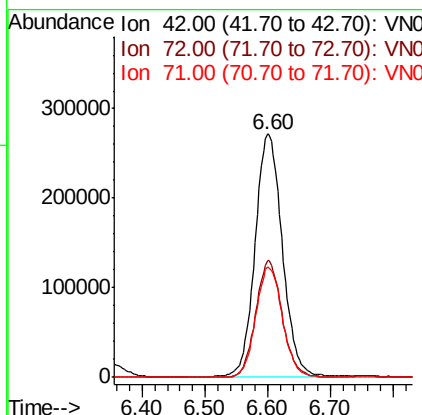
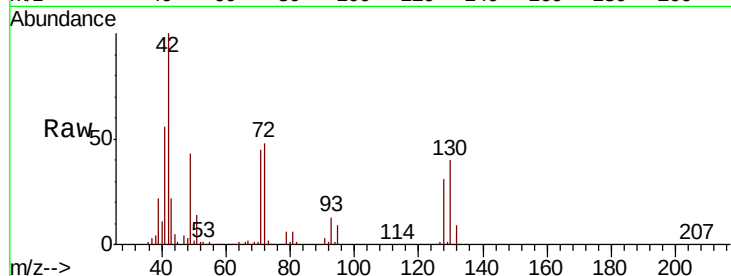
#29
Tetrahydrofuran
Concen: 232.393 ug/l
RT: 6.60 min Scan# 1501
Delta R.T. -0.00 min
Lab File: VN057160.D
Acq: 9 Aug 2019 20:48

Instrument :
MSVOA_N
ClientSampleId :
MW-4R_080819MSD

Tot Ion	Ratio	Lower	Upper
42	100		
72	46.3	37.1	55.7
71	44.3	34.8	52.2

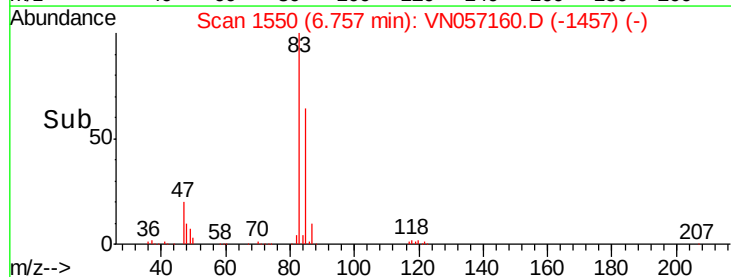
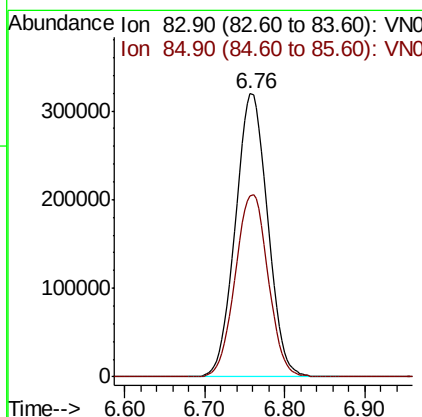
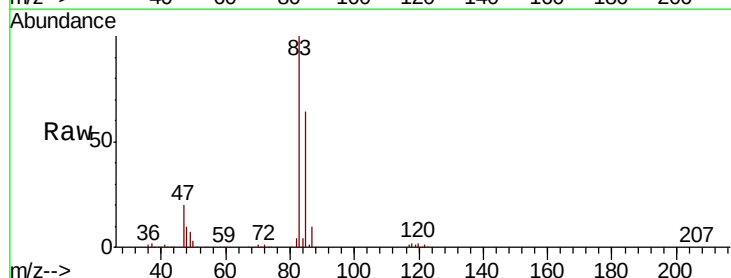
Manual Integrations
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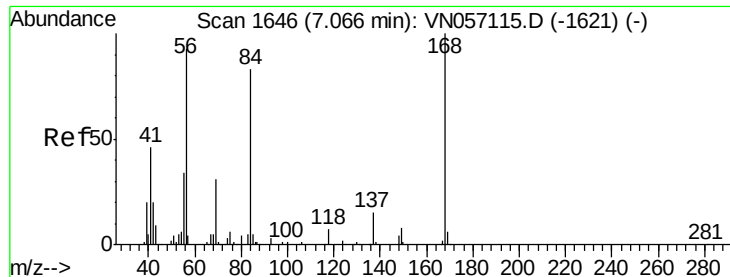
MMDadoda
8/12/2019 3:12:13 PM



#30
Chloroform
Concen: 45.896 ug/l
RT: 6.76 min Scan# 1550
Delta R.T. -0.00 min
Lab File: VN057160.D
Acq: 9 Aug 2019 20:48

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.1	52.6	78.8





#31

Cyclohexane

Concen: 43.087 ug/l

RT: 7.07 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VN057160.D

Acq: 9 Aug 2019 20:48

Instrument :

MSVOA_N

ClientSampleId :

MW-4R_080819MSD

Tot Ion: 56 Resp: 711479

Ion Ratio Lower Upper

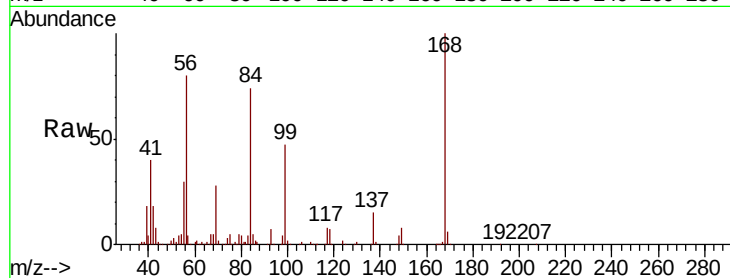
56 100

69 35.3 26.9 40.3

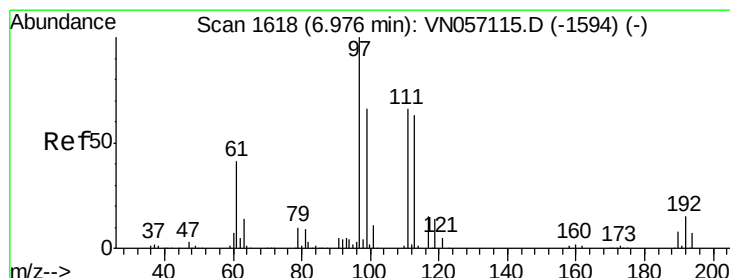
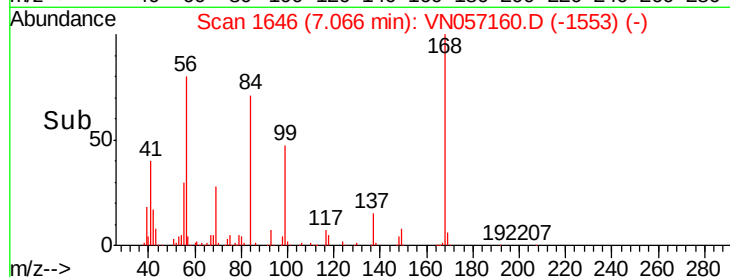
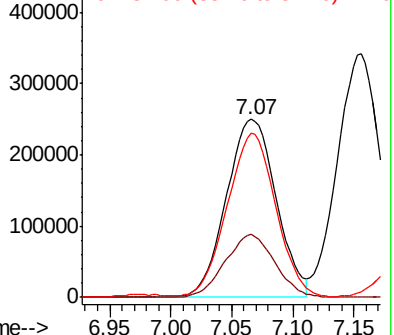
84 91.0 71.9 107.9

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



#32

1,1,1-Trichloroethane

Concen: 47.979 ug/l

RT: 6.98 min Scan# 1618

Delta R.T. -0.00 min

Lab File: VN057160.D

Acq: 9 Aug 2019 20:48

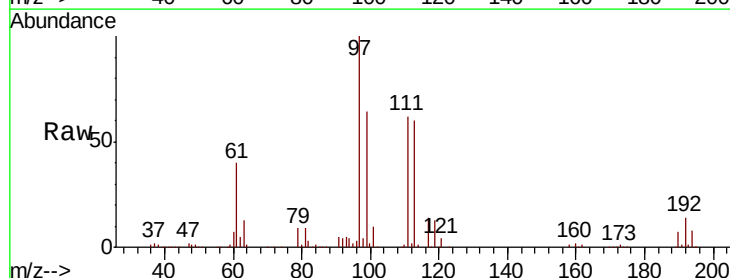
Tgt Ion: 97 Resp: 764582

Ion Ratio Lower Upper

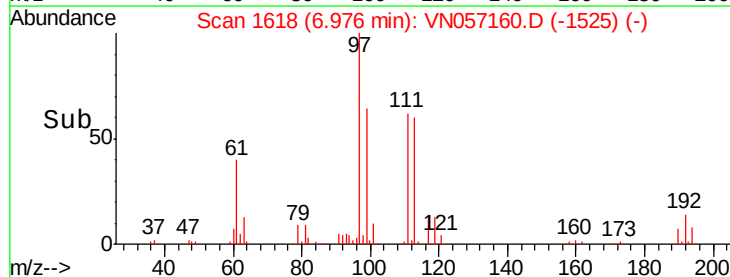
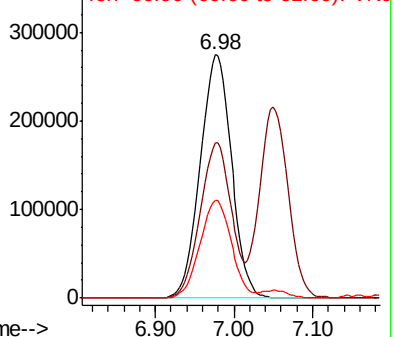
97 100

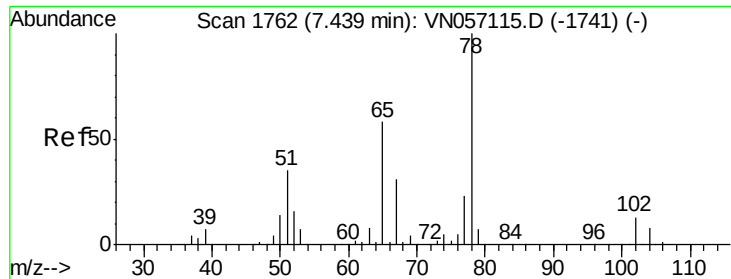
99 63.7 51.8 77.6

61 40.6 32.7 49.1



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





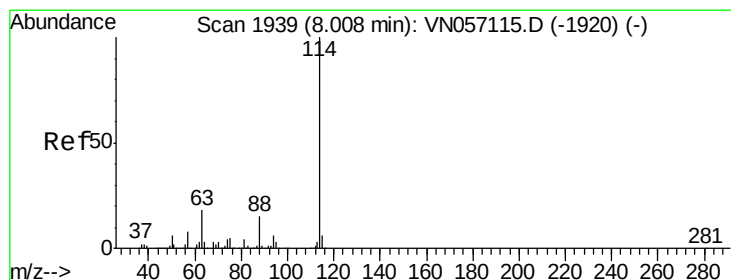
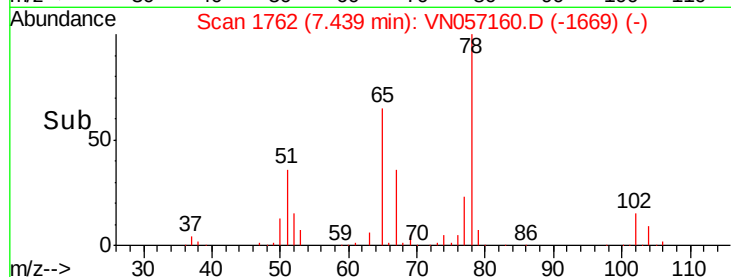
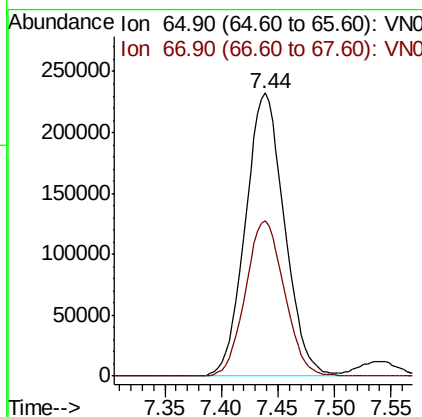
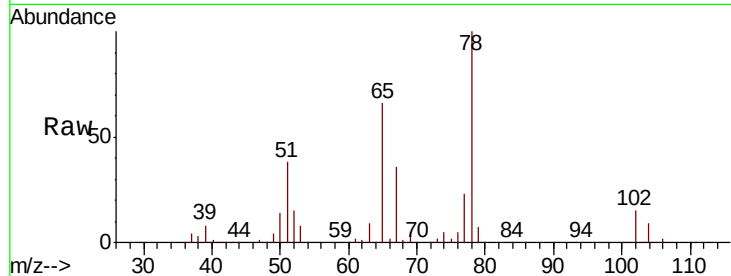
#33
 1,2-Dichloroethane-d4
 Concen: 49.047 ug/l
 RT: 7.44 min Scan# 1762
 Delta R.T. -0.00 min
 Lab File: VN057160.D
 Acq: 9 Aug 2019 20:48

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-4R_080819MSD

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	54.6	0.0	108.2	

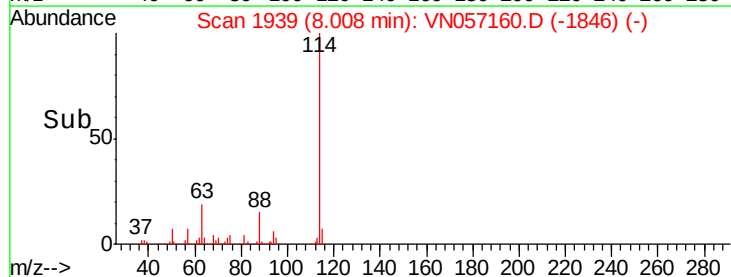
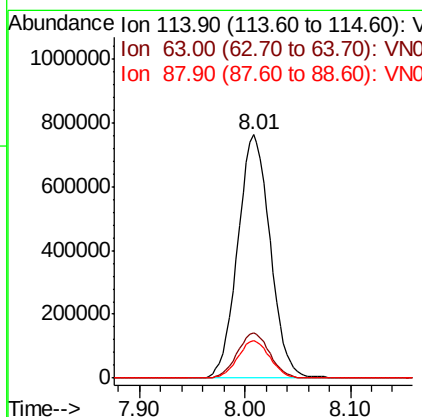
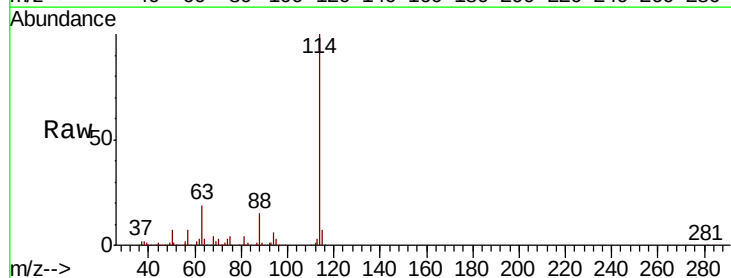
Manual Integrations
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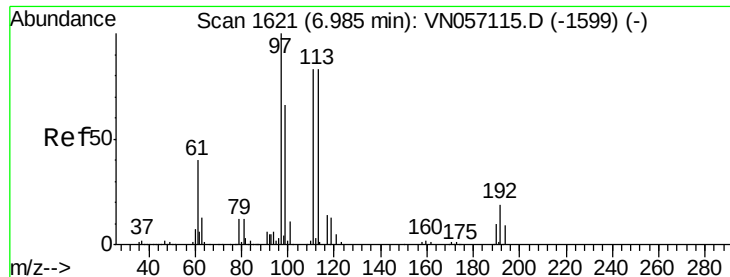
MMDadoda
 8/12/2019 3:12:13 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.01 min Scan# 1939
 Delta R.T. -0.00 min
 Lab File: VN057160.D
 Acq: 9 Aug 2019 20:48

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	18.6	0.0	36.2	
88	15.3	0.0	30.0	





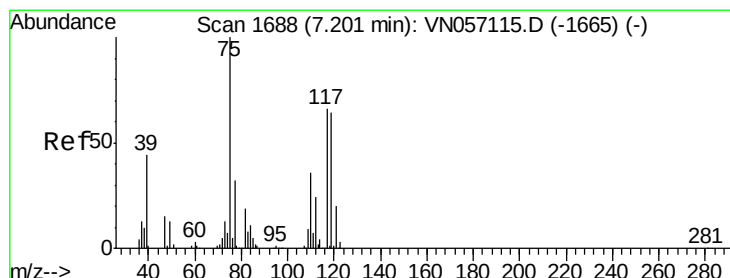
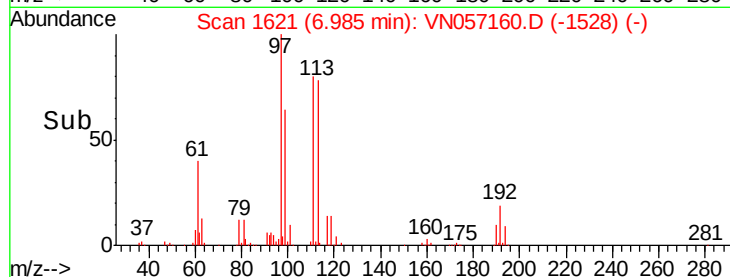
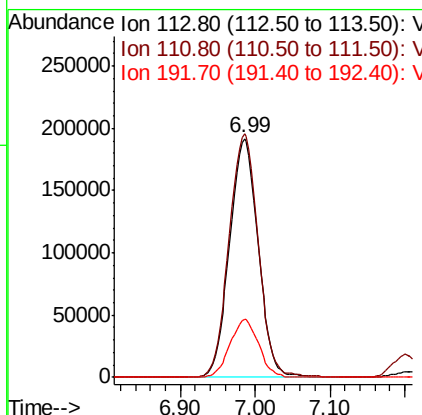
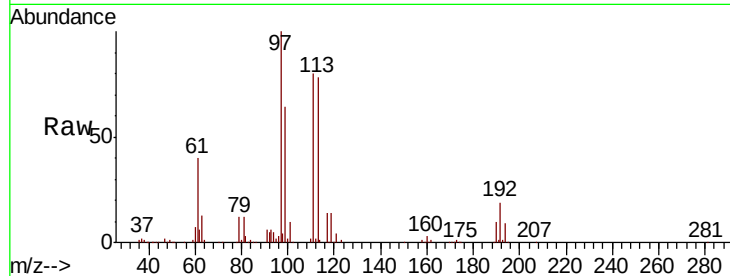
#35
 Dibromofluoromethane
 Concen: 49.942 ug/l
 RT: 6.99 min Scan# 1621
 Delta R.T. -0.00 min
 Lab File: VN057160.D
 Acq: 9 Aug 2019 20:48

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-4R_080819MSD

Tot Ion	Ratio	Lower	Upper
113	100		
111	103.7	81.3	121.9
192	24.2	19.0	28.4

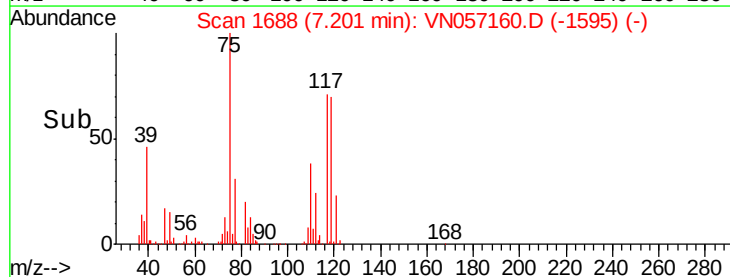
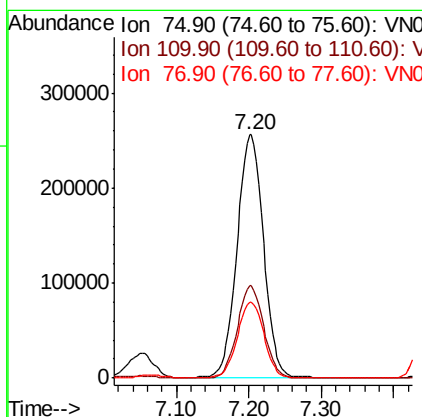
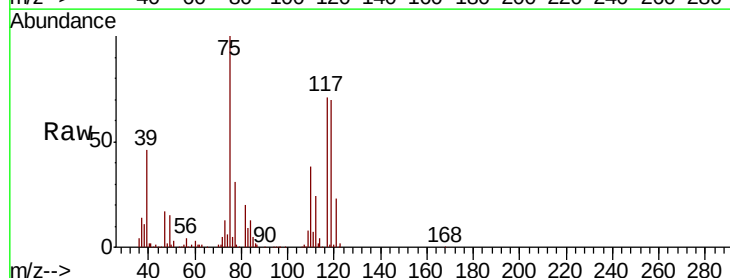
Manual Integrations
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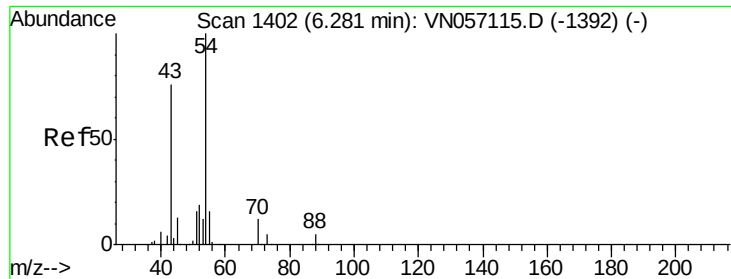
MMDadoda
 8/12/2019 3:12:13 PM



#36
 1,1-Dichloropropene
 Concen: 48.488 ug/l
 RT: 7.20 min Scan# 1688
 Delta R.T. -0.00 min
 Lab File: VN057160.D
 Acq: 9 Aug 2019 20:48

Tgt Ion	Ratio	Lower	Upper
75	100		
110	37.9	18.7	56.1
77	31.5	25.0	37.4





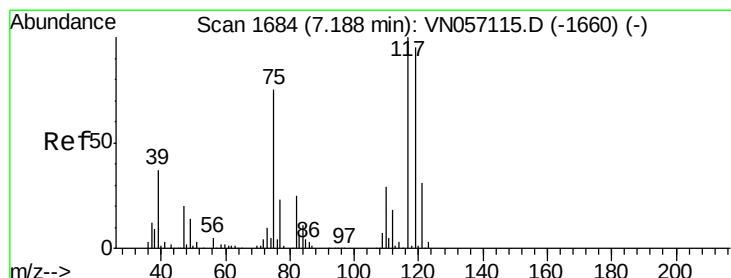
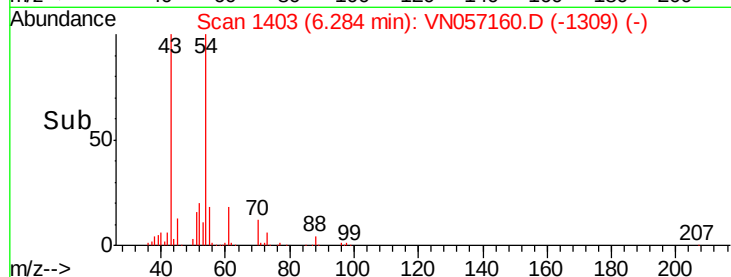
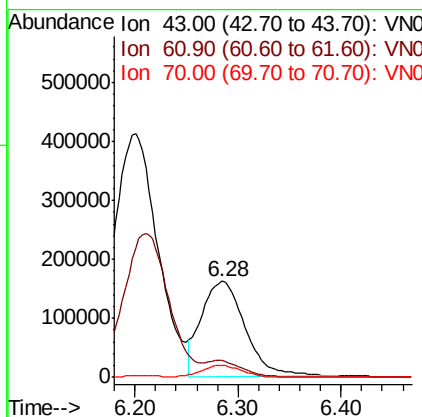
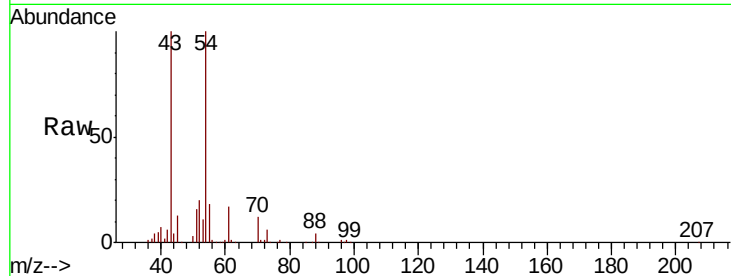
#37
Ethyl Acetate
Concen: 43.161 ug/l
RT: 6.28 min Scan# 1403
Delta R.T. 0.00 min
Lab File: VN057160.D
Acq: 9 Aug 2019 20:48

Instrument :
MSVOA_N
ClientSampleId :
MW-4R_080819MSD

Tot Ion	Ratio	Lower	Upper
43	100		
61	0.0	0.0	0.0
70	11.8	9.1	13.7

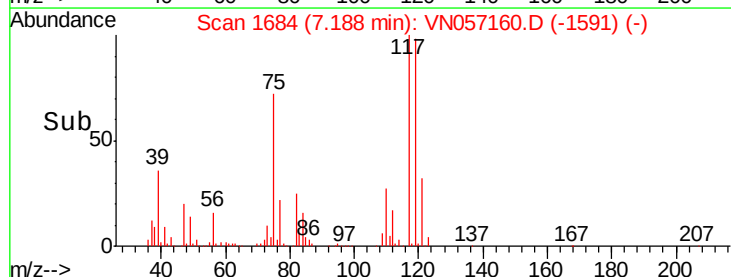
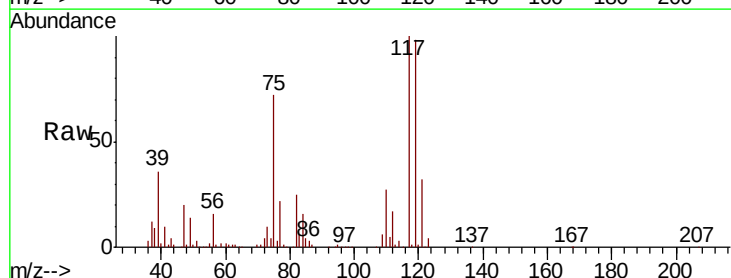
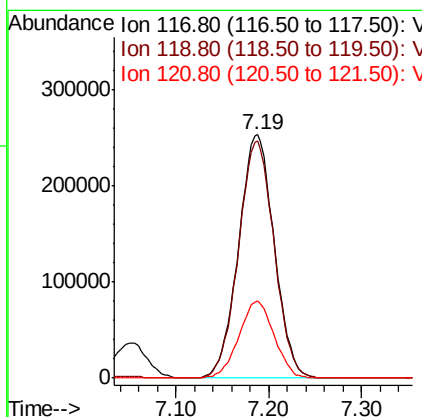
Manual Integrations
APPROVED

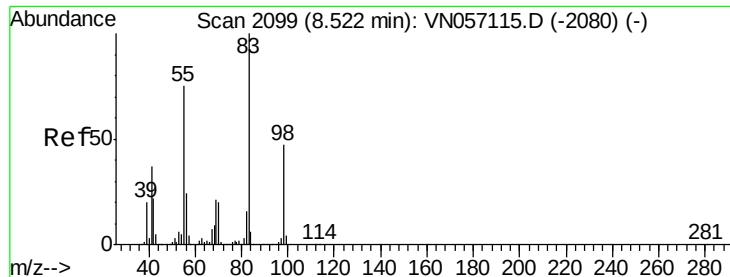
MMDadoda
8/12/2019 3:12:13 PM



#38
Carbon Tetrachloride
Concen: 48.226 ug/l
RT: 7.19 min Scan# 1684
Delta R.T. -0.00 min
Lab File: VN057160.D
Acq: 9 Aug 2019 20:48

Tgt Ion	Ratio	Lower	Upper
117	100		
119	97.6	75.8	113.6
121	31.7	24.4	36.6





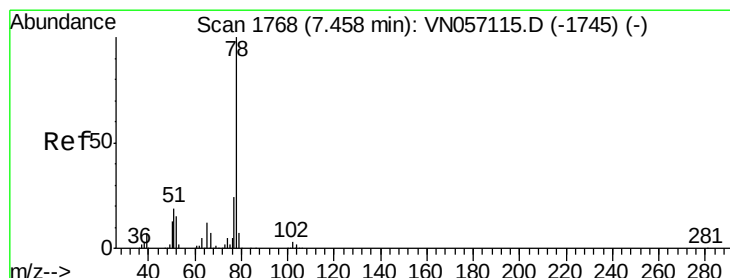
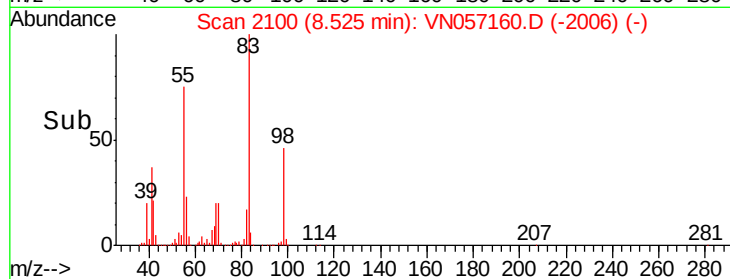
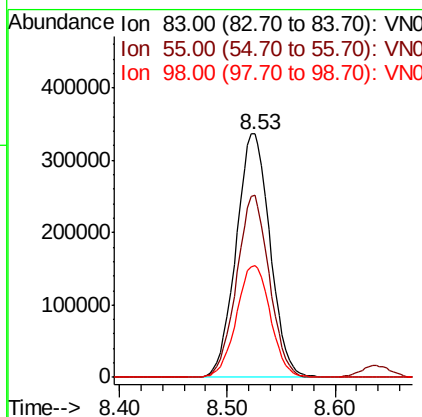
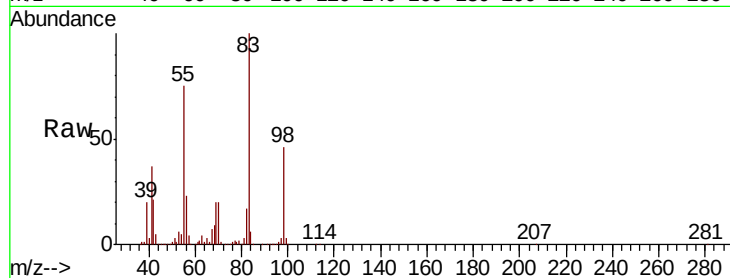
#39
Methylvlcyclohexane
Concen: 45.123 ug/l
RT: 8.53 min Scan# 2100
Delta R.T. 0.00 min
Lab File: VN057160.D
Acq: 9 Aug 2019 20:48

Instrument :
MSVOA_N
ClientSampleId :
MW-4R_080819MSD

Tot Ion	Ratio	Lower	Upper
83	100		
55	74.5	60.3	90.5
98	45.9	37.9	56.9

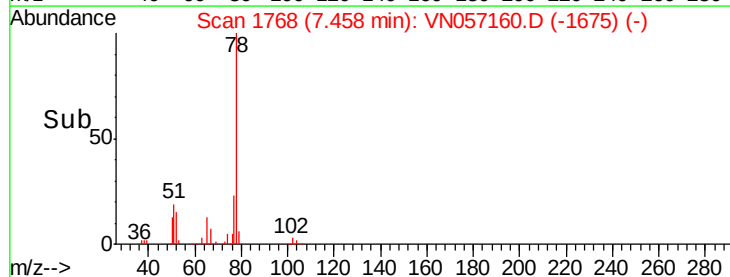
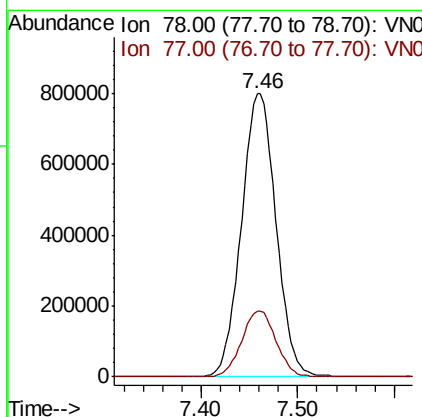
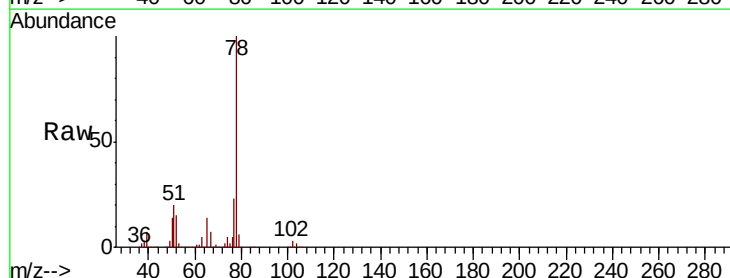
Manual Integrations
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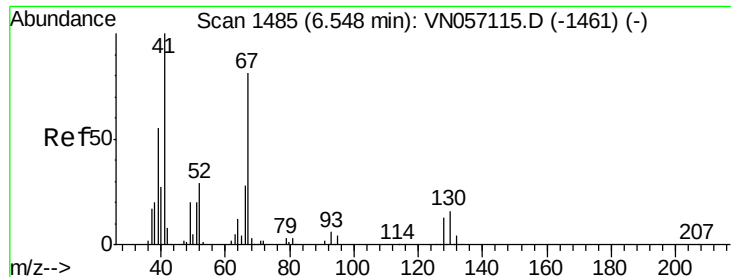
MMDadoda
8/12/2019 3:12:13 PM



#40
Benzene
Concen: 46.683 ug/l
RT: 7.46 min Scan# 1768
Delta R.T. -0.00 min
Lab File: VN057160.D
Acq: 9 Aug 2019 20:48

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.2	19.2	28.8





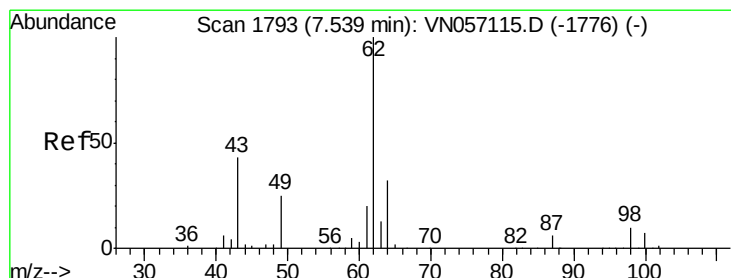
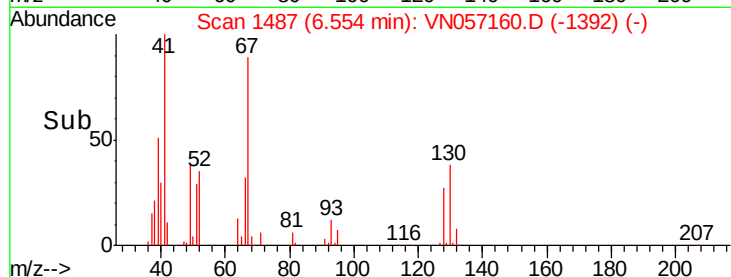
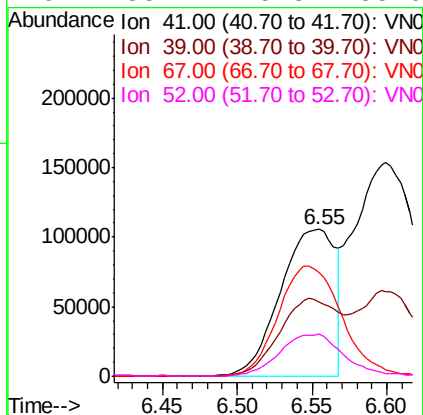
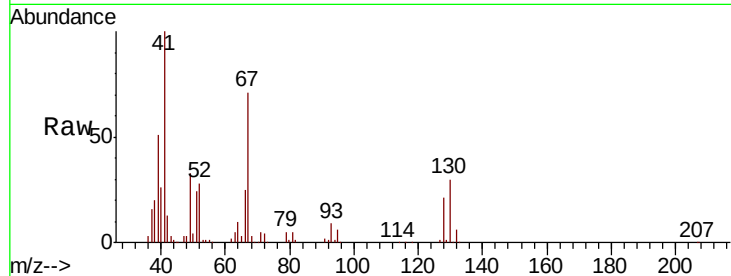
#41
Methacrylonitrile
Concen: 48.096 ug/l
RT: 6.55 min Scan# 1487
Delta R.T. 0.01 min
Lab File: VN057160.D
Acq: 9 Aug 2019 20:48

Instrument :
MSVOA_N
ClientSampleId :
MW-4R_080819MSD

Tot Ion	41	Resp	270349
Ion	Ratio	Lower	Upper
41	100		
39	58.4	44.9	67.3
67	86.5	69.1	103.7
52	33.1	25.8	38.6

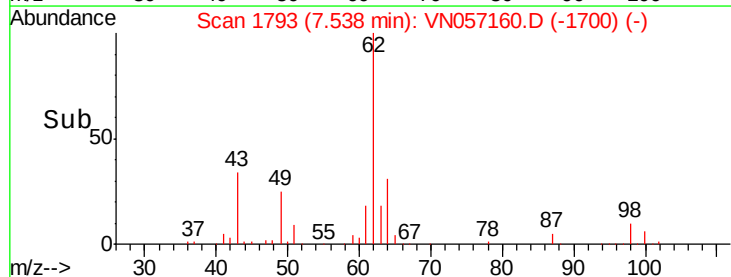
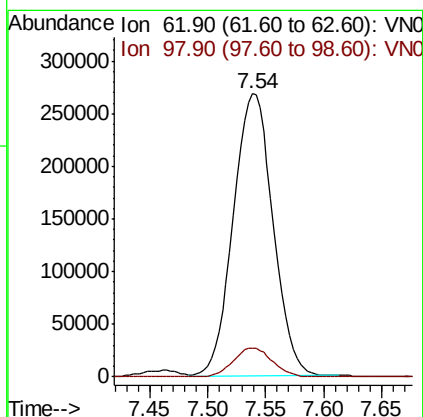
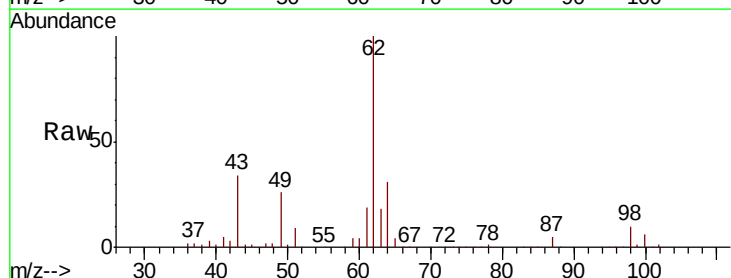
Manual Integrations
APPROVED

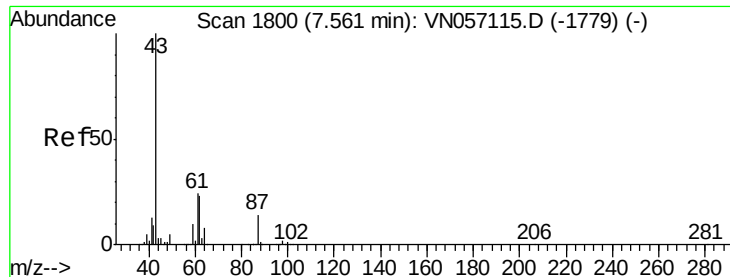
MMDadoda
8/12/2019 3:12:13 PM



#42
1,2-Dichloroethane
Concen: 47.238 ug/l
RT: 7.54 min Scan# 1793
Delta R.T. -0.00 min
Lab File: VN057160.D
Acq: 9 Aug 2019 20:48

Tgt Ion	62	Resp	640225
Ion	Ratio	Lower	Upper
62	100		
98	10.1	0.0	19.4





#43

Isopropyl Acetate

Concen: 44.760 ug/l

RT: 7.56 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VN057160.D

Acq: 9 Aug 2019 20:48

Instrument :

MSVOA_N

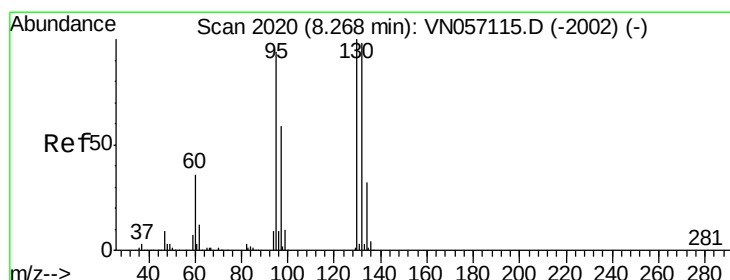
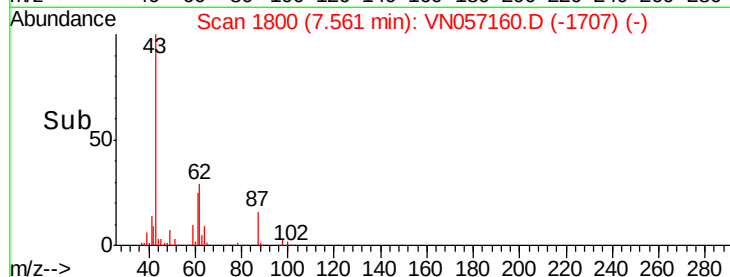
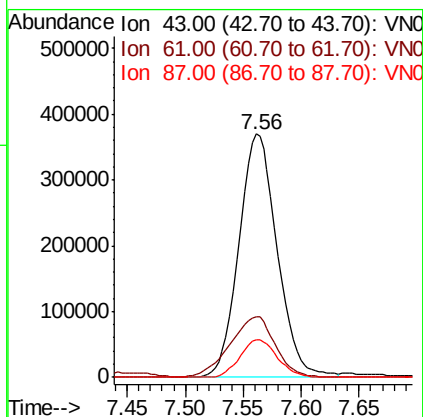
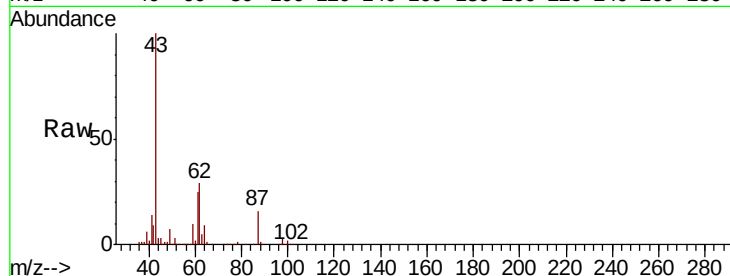
ClientSampleId :

MW-4R_080819MSD

Tot Ion:	43	Resp:	845267
Ion	Ratio	Lower	Upper
43	100		
61	29.4	24.2	36.2
87	15.2	11.8	17.8

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#44

Trichloroethene

Concen: 47.325 ug/l

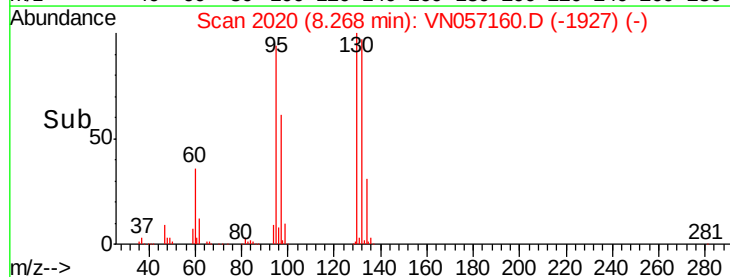
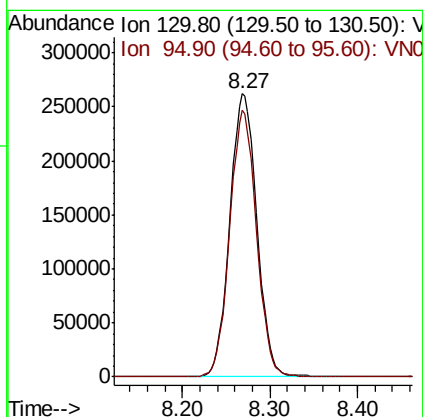
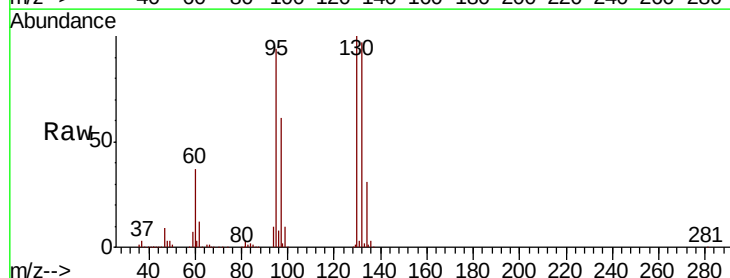
RT: 8.27 min Scan# 2020

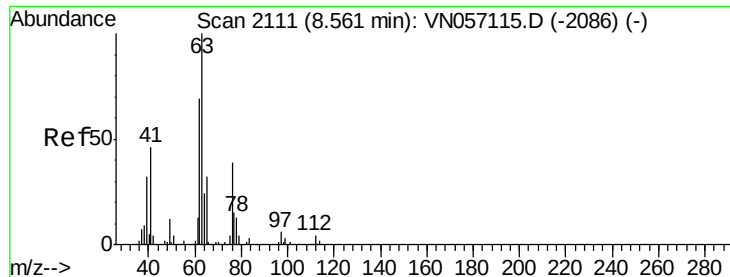
Delta R.T. -0.00 min

Lab File: VN057160.D

Acq: 9 Aug 2019 20:48

Tgt Ion:	130	Resp:	563448
Ion	Ratio	Lower	Upper
130	100		
95	94.4	0.0	187.4





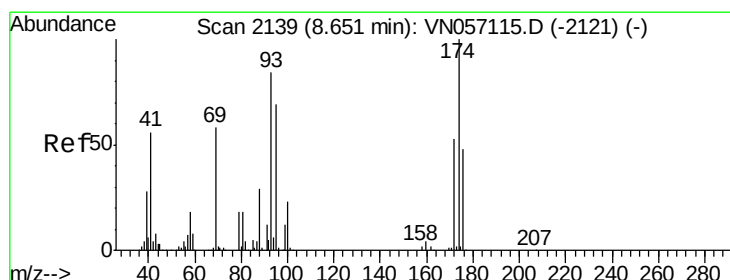
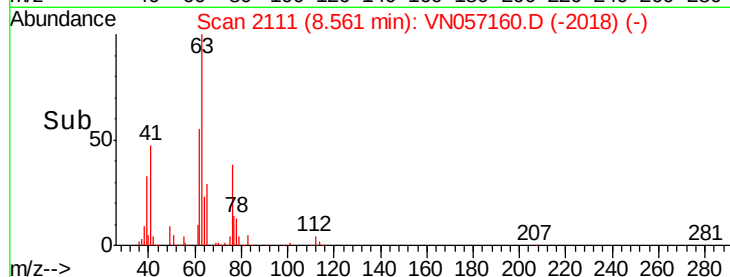
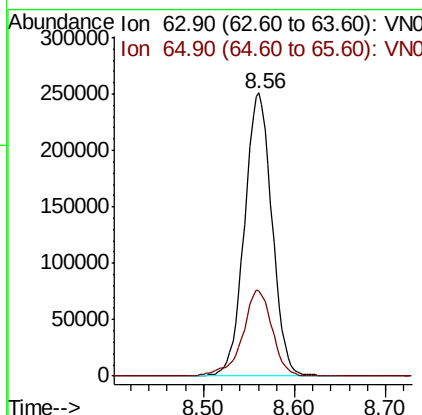
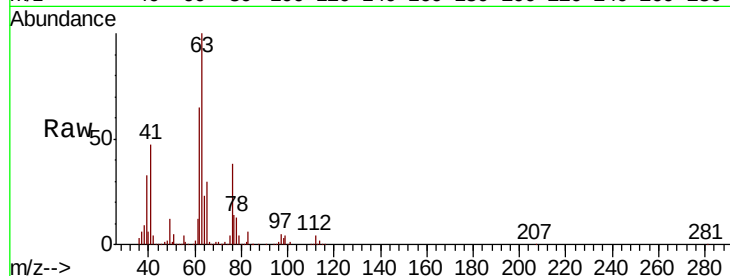
#45
 1,2-Dichloropropane
 Concen: 47.858 ug/l
 RT: 8.56 min Scan# 2111
 Delta R.T. -0.00 min
 Lab File: VN057160.D
 Acq: 9 Aug 2019 20:48

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-4R_080819MSD

Tot Ion	Ratio	Lower	Upper
63	100		
65	30.2	25.2	37.8

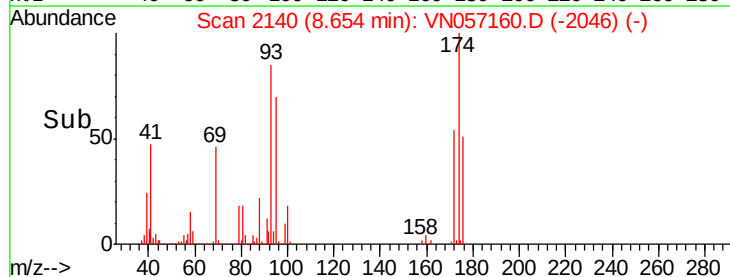
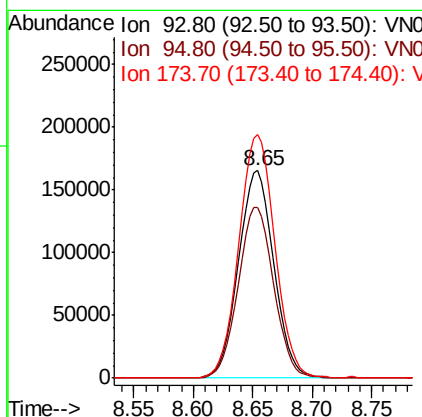
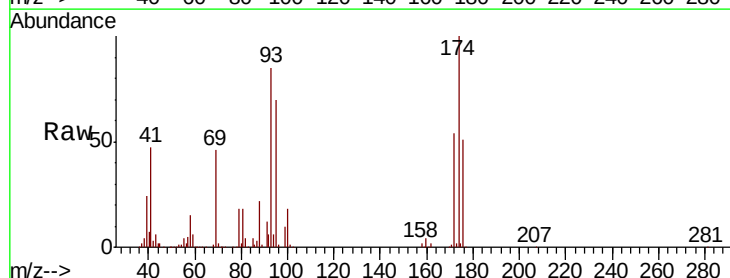
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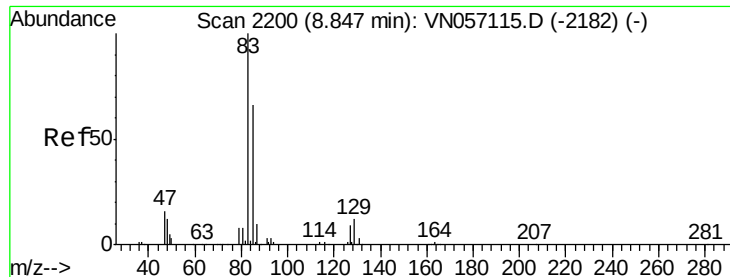
MMDadoda
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#46
 Dibromomethane
 Concen: 48.467 ug/l
 RT: 8.65 min Scan# 2140
 Delta R.T. 0.00 min
 Lab File: VN057160.D
 Acq: 9 Aug 2019 20:48

Tgt Ion	Ratio	Lower	Upper
93	100		
95	82.4	66.0	99.0
174	119.2	96.0	144.0





#47

Bromodichloromethane

Concen: 50.087 ug/l

RT: 8.85 min Scan# 2201

Delta R.T. 0.00 min

Lab File: VN057160.D

Acq: 9 Aug 2019 20:48

Instrument :

MSVOA_N

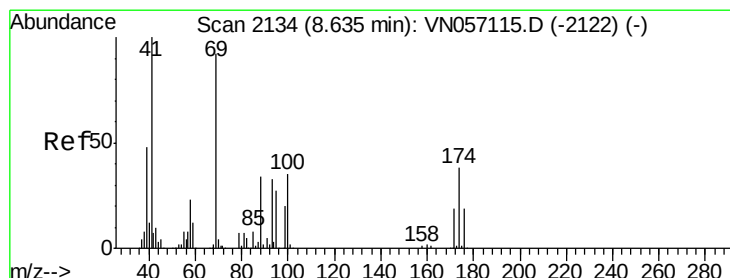
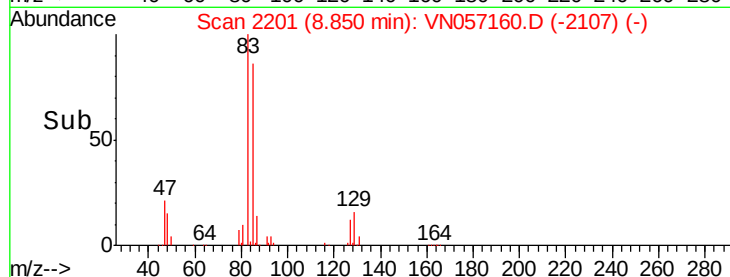
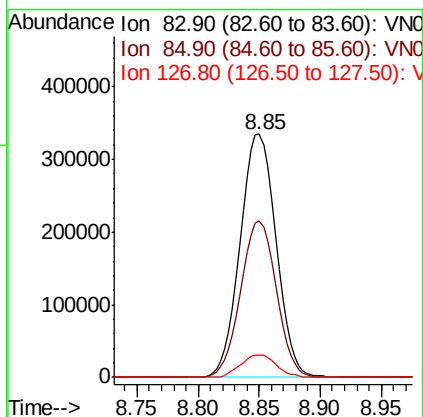
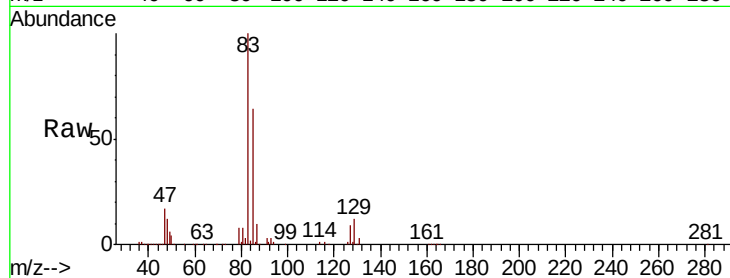
ClientSampleId :

MW-4R_080819MSD

Tot Ion:	83	Resp:	683763
Ion	Ratio	Lower	Upper
83	100		
85	64.1	52.6	78.8
127	9.1	7.5	11.3

Manual Integrations
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#48

Methyl methacrylate

Concen: 46.815 ug/l

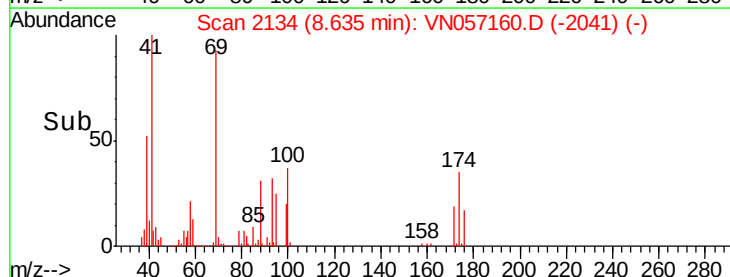
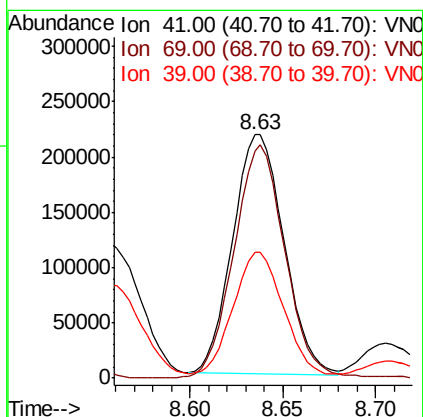
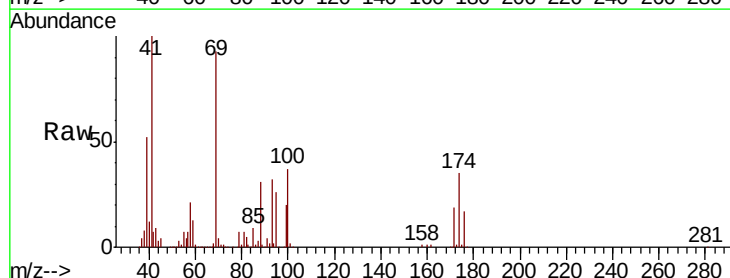
RT: 8.63 min Scan# 2134

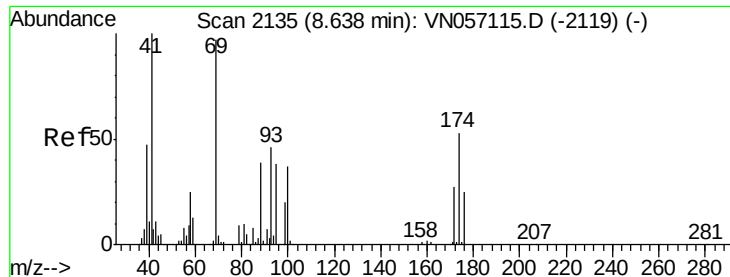
Delta R.T. -0.00 min

Lab File: VN057160.D

Acq: 9 Aug 2019 20:48

Tgt Ion:	41	Resp:	416883
Ion	Ratio	Lower	Upper
41	100		
69	97.6	77.5	116.3
39	52.6	39.8	59.6





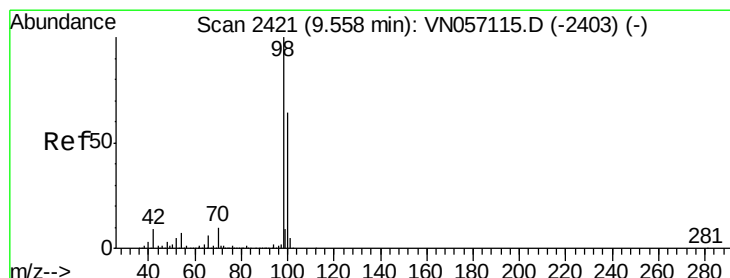
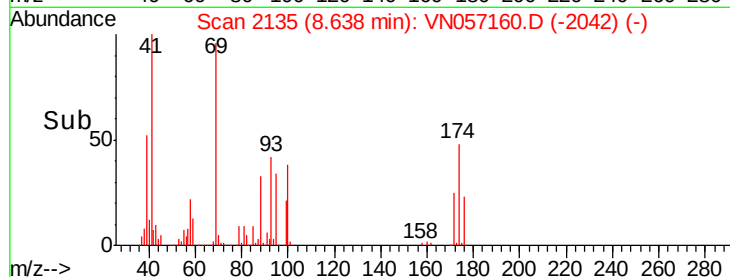
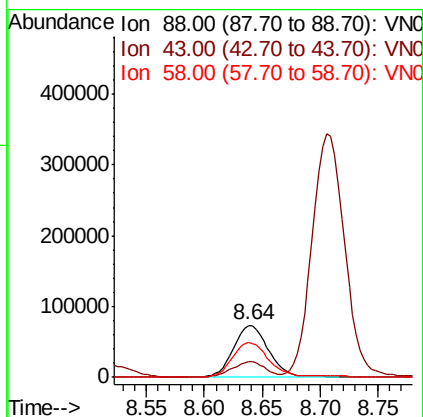
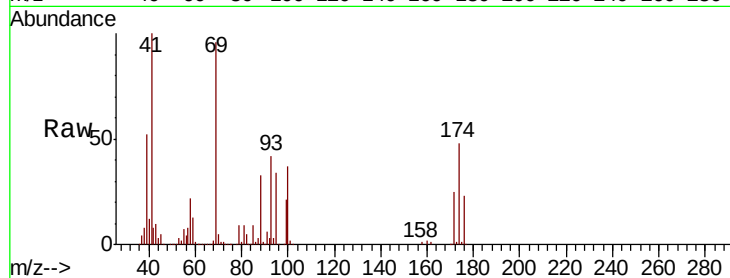
#49
1,4-Dioxane
Concen: 858.064 ug/l
RT: 8.64 min Scan# 2135
Delta R.T. -0.00 min
Lab File: VN057160.D
Acq: 9 Aug 2019 20:48

Instrument :
MSVOA_N
ClientSampleId :
MW-4R_080819MSD

Tot Ion	Ratio	Lower	Upper
88	100		
43	28.0	21.7	32.5
58	69.3	51.1	76.7

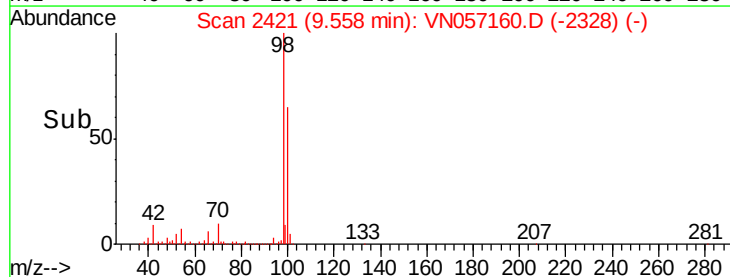
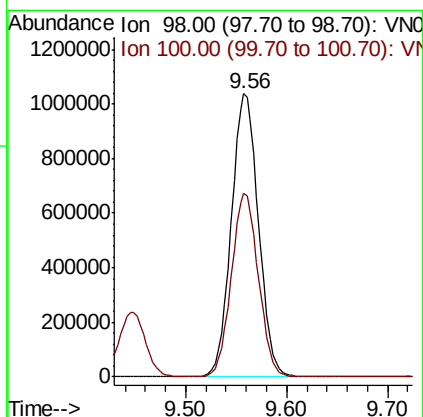
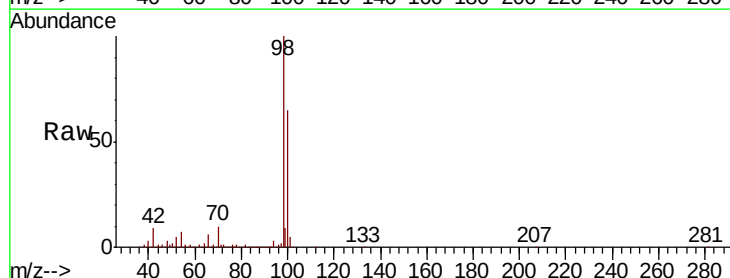
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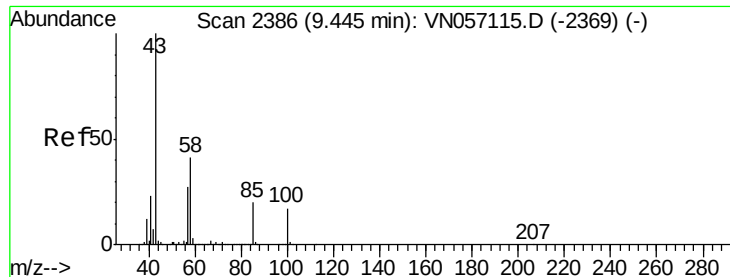
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#50
Toluene-d8
Concen: 49.530 ug/l
RT: 9.56 min Scan# 2421
Delta R.T. -0.00 min
Lab File: VN057160.D
Acq: 9 Aug 2019 20:48

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.4	51.2	76.8





#51

4-Methyl-2-Pentanone

Concen: 237.718 ug/l

RT: 9.45 min Scan# 2386

Delta R.T. -0.00 min

Lab File: VN057160.D

Acq: 9 Aug 2019 20:48

Instrument :

MSVOA_N

ClientSampleId :

MW-4R_080819MSD

Tot Ion: 43 Resp: 2612663

Ion Ratio Lower Upper

43 100

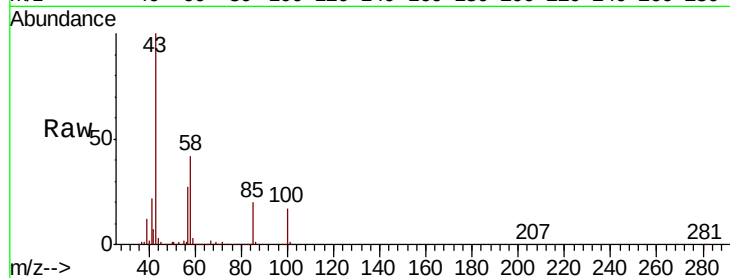
58 41.7 33.2 49.8

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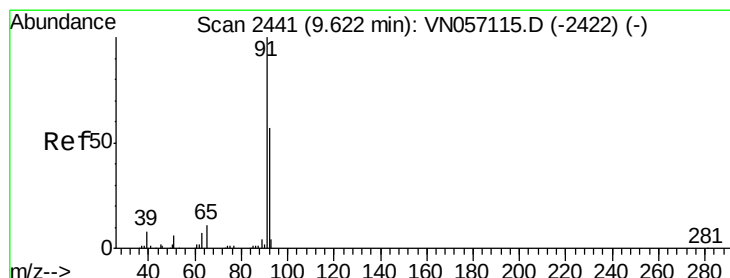
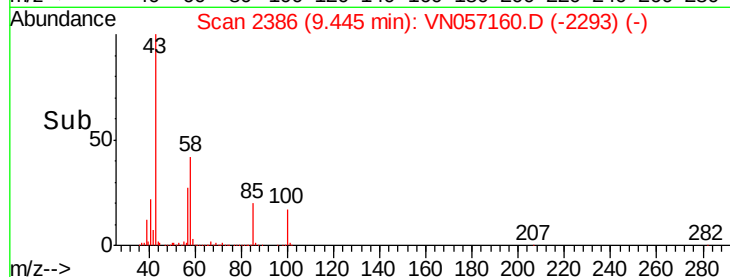
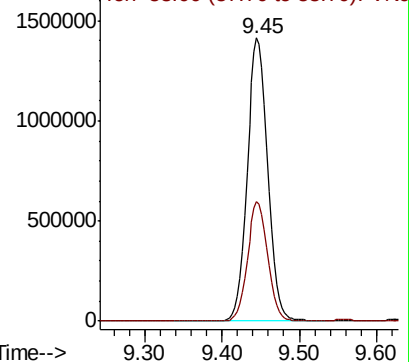
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 47.811 ug/l

RT: 9.63 min Scan# 2442

Delta R.T. 0.00 min

Lab File: VN057160.D

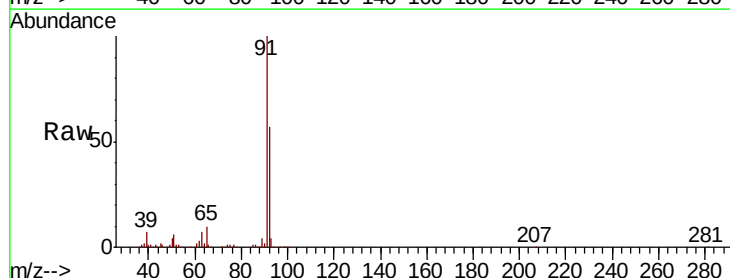
Acq: 9 Aug 2019 20:48

Tgt Ion: 92 Resp: 1261182

Ion Ratio Lower Upper

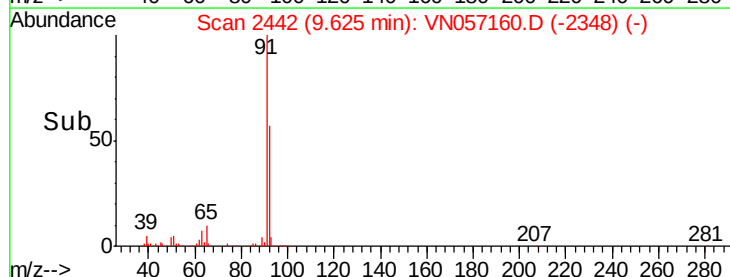
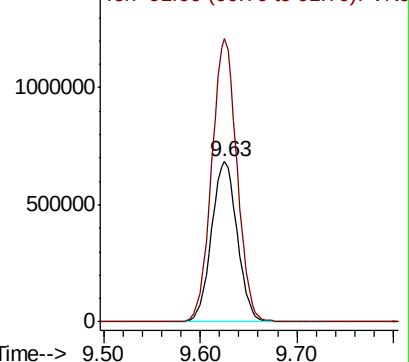
92 100

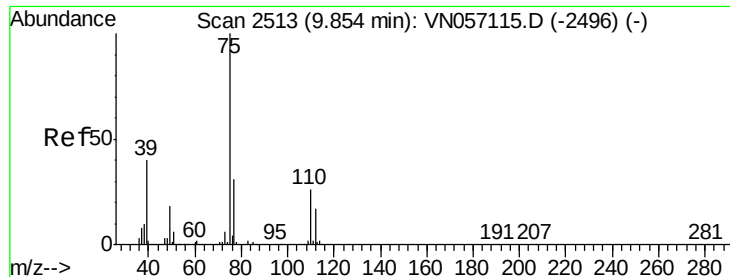
91 173.9 139.8 209.8



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





#53

t-1,3-Dichloropropene

Concen: 50.077 ug/l

RT: 9.86 min Scan# 2514

Delta R.T. 0.00 min

Lab File: VN057160.D

Acq: 9 Aug 2019 20:48

Instrument :

MSVOA_N

ClientSampleId :

MW-4R_080819MSD

Tot Ion: 75 Resp: 714180

Ion Ratio Lower Upper

75 100

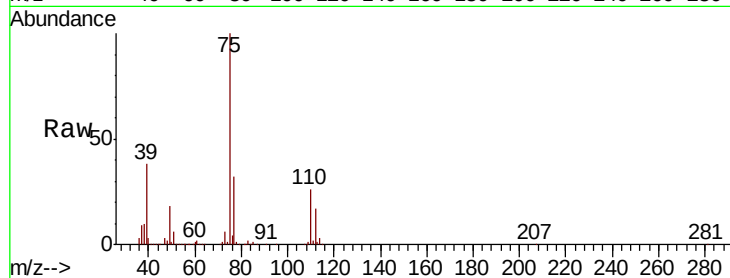
77 31.6 24.8 37.2

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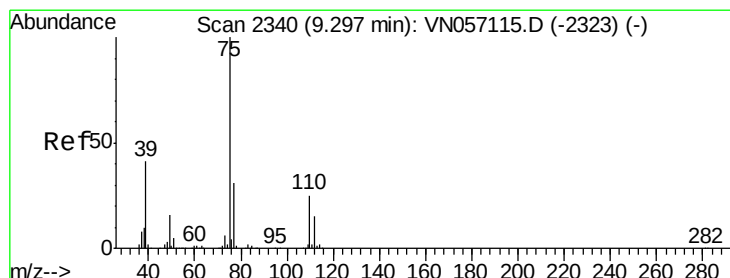
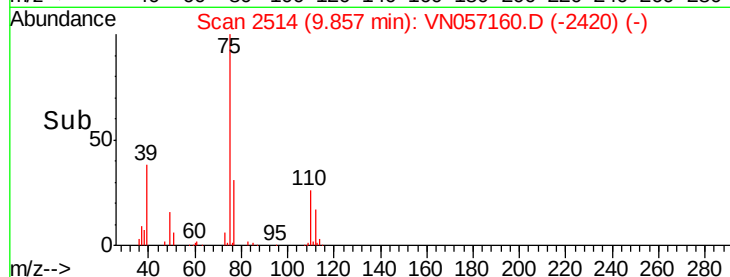
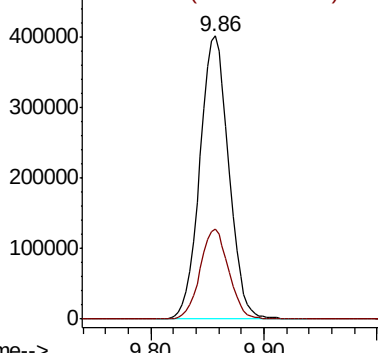
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Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



#54

cis-1,3-Dichloropropene

Concen: 48.289 ug/l

RT: 9.30 min Scan# 2340

Delta R.T. -0.00 min

Lab File: VN057160.D

Acq: 9 Aug 2019 20:48

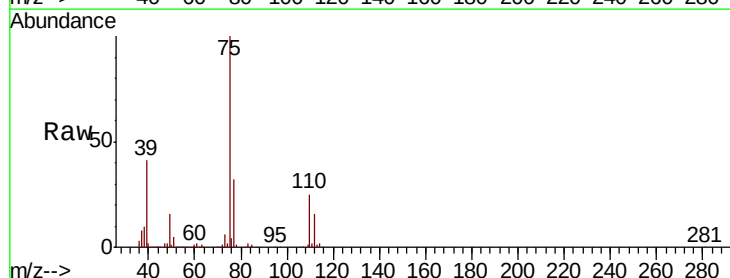
Tgt Ion: 75 Resp: 790241

Ion Ratio Lower Upper

75 100

77 31.6 25.1 37.7

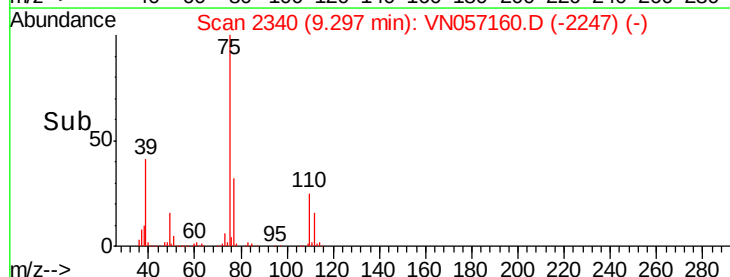
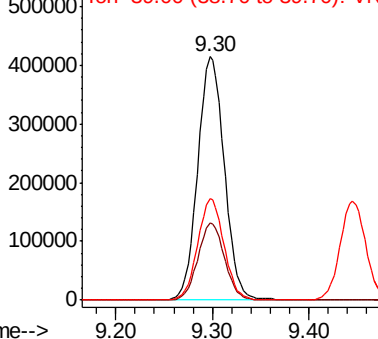
39 41.5 32.5 48.7

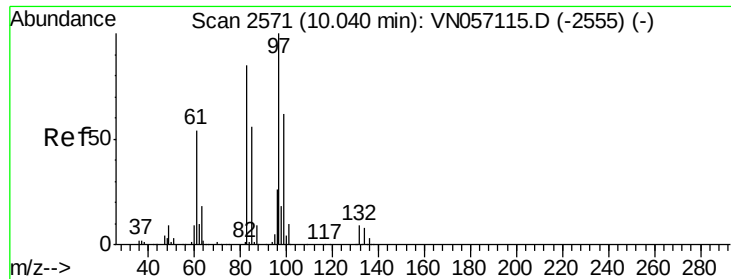


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





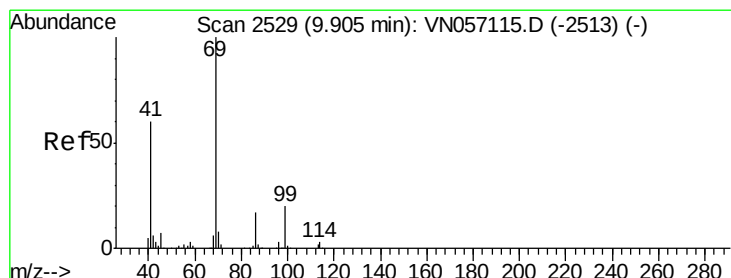
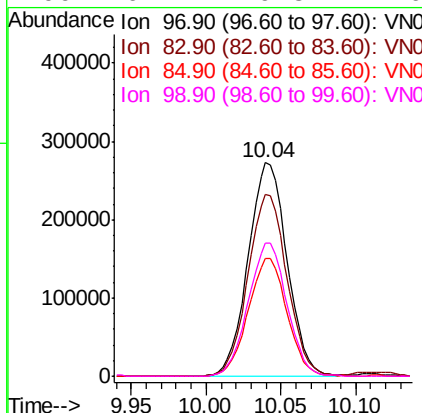
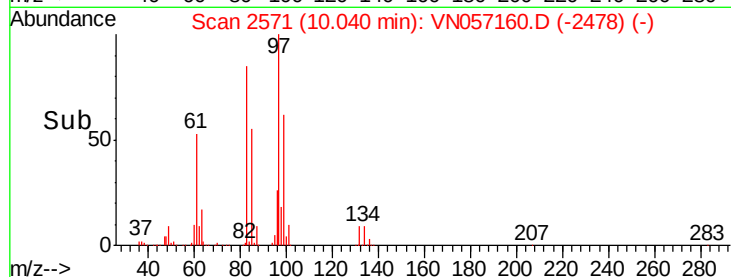
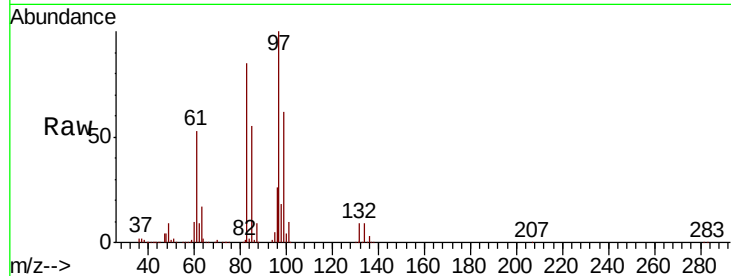
#55
 1,1,2-Trichloroethane
 Concen: 47.609 ug/l
 RT: 10.04 min Scan# 2571
 Delta R.T. -0.00 min
 Lab File: VN057160.D
 Acq: 9 Aug 2019 20:48

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-4R_080819MSD

Tot Ion:	97	Resp:	493852
Ion	Ratio	Lower	Upper
97	100		
83	85.3	67.8	101.8
85	55.4	44.4	66.6
99	62.4	49.8	74.6

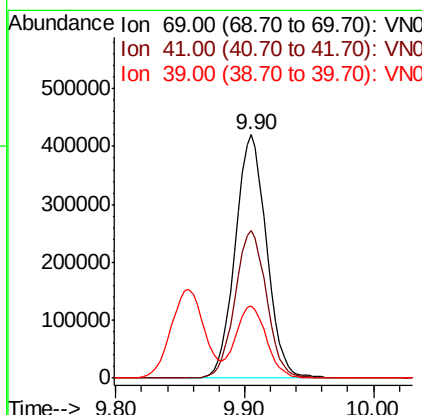
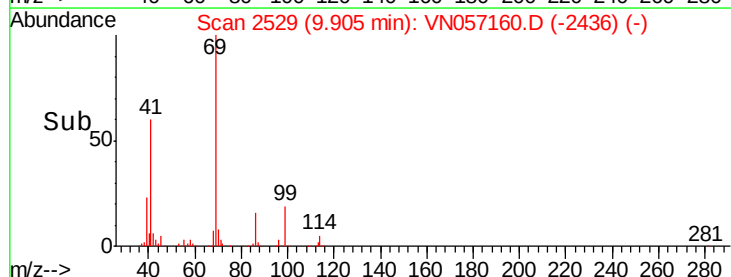
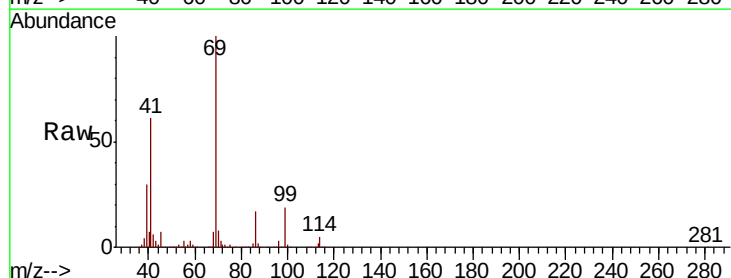
Manual Integrations
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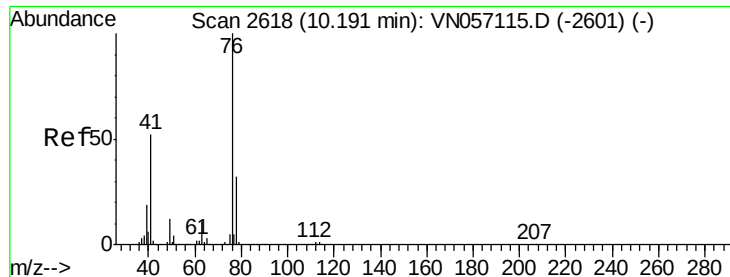
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#56
 Ethyl methacrylate
 Concen: 48.844 ug/l
 RT: 9.90 min Scan# 2529
 Delta R.T. -0.00 min
 Lab File: VN057160.D
 Acq: 9 Aug 2019 20:48

Tgt Ion:	69	Resp:	709412
Ion	Ratio	Lower	Upper
69	100		
41	60.5	48.1	72.1
39	29.1	23.6	35.4





#57

1,3-Dichloropropane

Concen: 47.121 ug/l

RT: 10.19 min Scan# 2618

Delta R.T. -0.00 min

Lab File: VN057160.D

Acq: 9 Aug 2019 20:48

Instrument :

MSVOA_N

ClientSampleId :

MW-4R 080819MSD

Tot Ion: 76 Resp: 806066

Ion Ratio Lower Upper

76 100

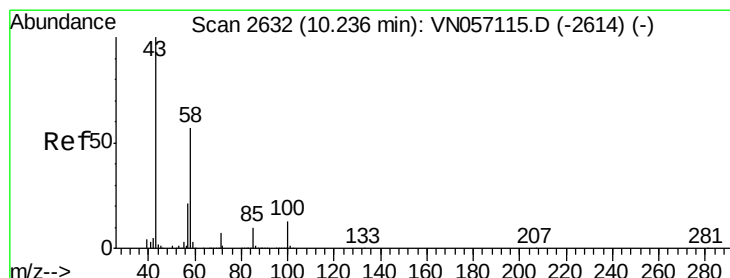
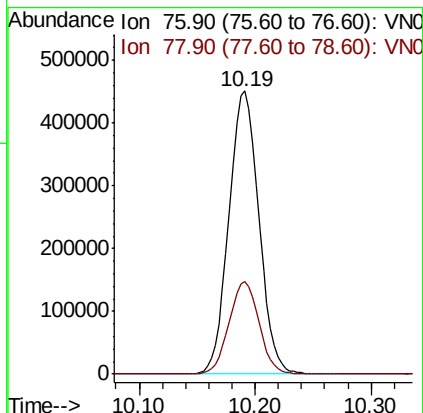
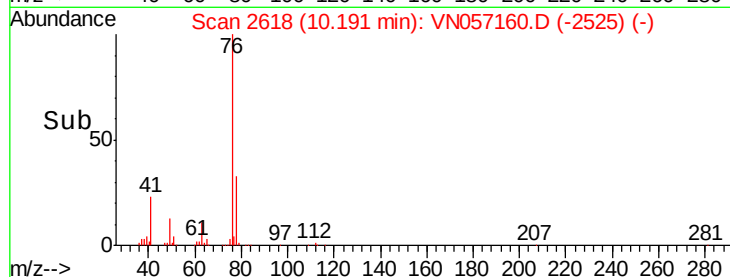
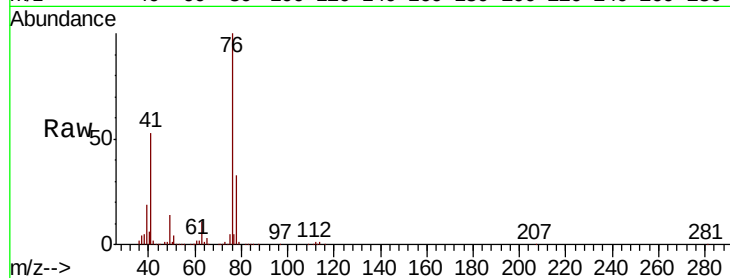
78 32.6 25.9 38.9

Manual Integrations

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#59

2-Hexanone

Concen: 242.743 ug/l

RT: 10.24 min Scan# 2632

Delta R.T. -0.00 min

Lab File: VN057160.D

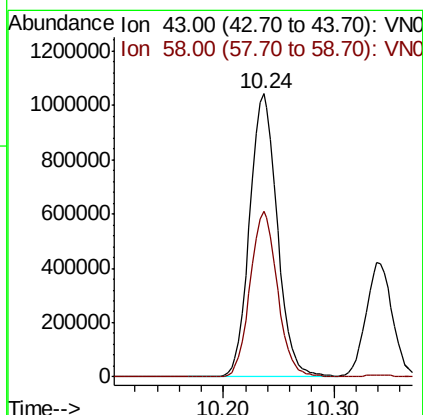
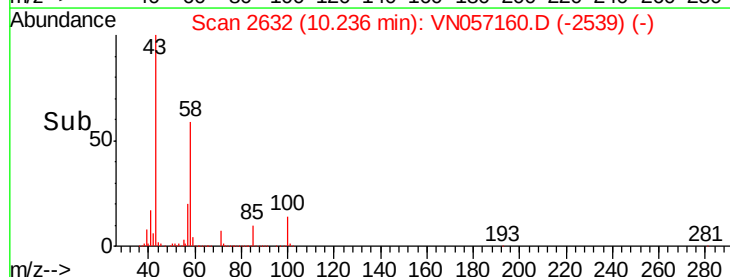
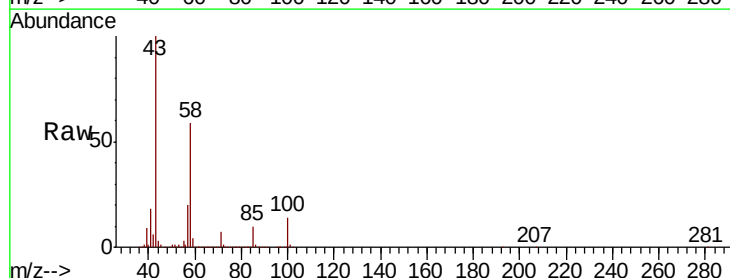
Acq: 9 Aug 2019 20:48

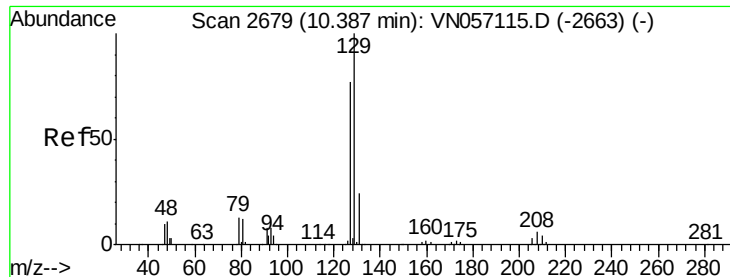
Tgt Ion: 43 Resp: 1805609

Ion Ratio Lower Upper

43 100

58 58.1 29.2 87.6





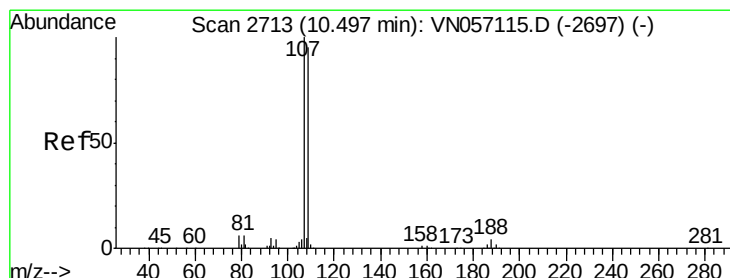
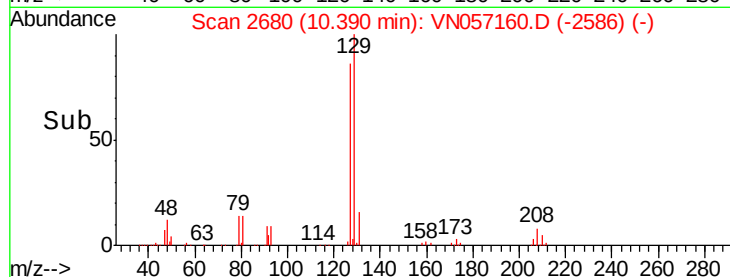
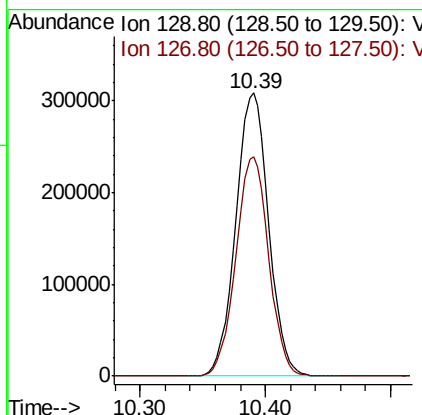
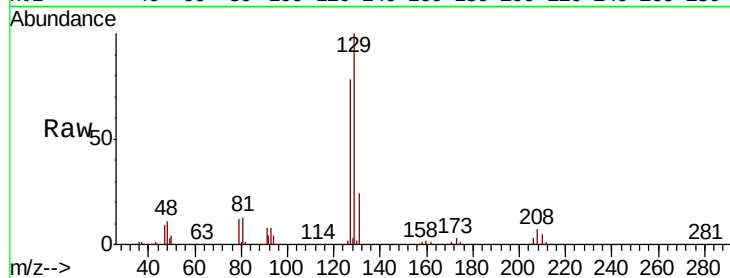
#60
Dibromochloromethane
Concen: 51.506 ug/l
RT: 10.39 min Scan# 2680
Delta R.T. 0.00 min
Lab File: VN057160.D
Acq: 9 Aug 2019 20:48

Instrument :
MSVOA_N
ClientSampleId :
MW-4R_080819MSD

Tot Ion	Ratio	Lower	Upper
129	100		
127	77.6	38.6	116.0

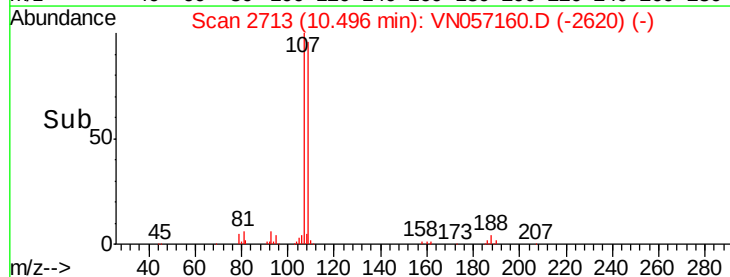
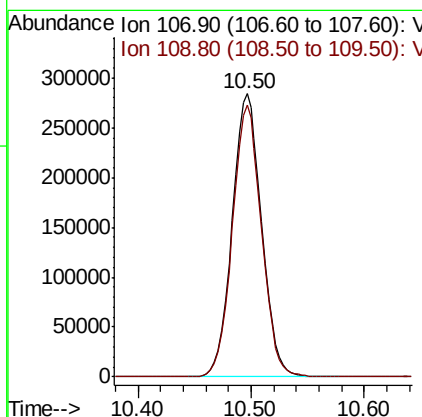
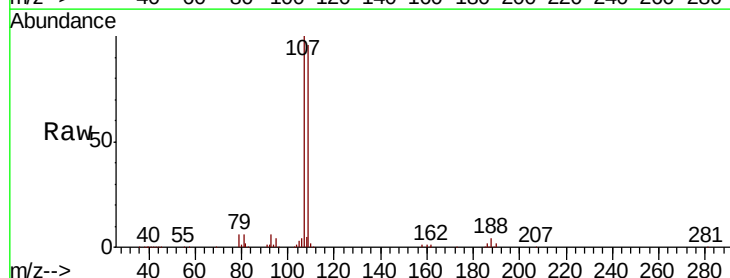
Manual Integrations
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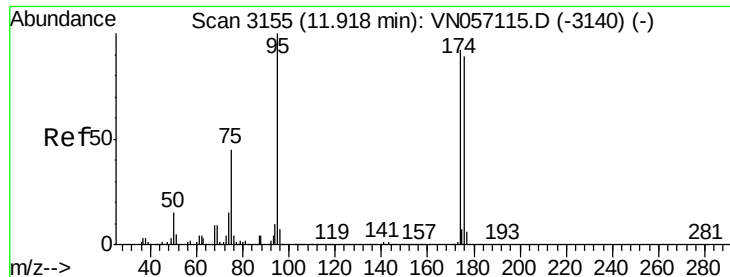
MMDadoda
8/12/2019 3:12:13 PM



#61
1,2-Dibromoethane
Concen: 47.809 ug/l
RT: 10.50 min Scan# 2713
Delta R.T. -0.00 min
Lab File: VN057160.D
Acq: 9 Aug 2019 20:48

Tgt Ion	Ratio	Lower	Upper
107	100		
109	95.3	75.6	113.4





#62

4-Bromofluorobenzene

Concen: 51.441 ug/l

RT: 11.92 min Scan# 3155

Delta R.T. -0.00 min

Lab File: VN057160.D

Acq: 9 Aug 2019 20:48

Instrument :

MSVOA_N

ClientSampleId :

MW-4R_080819MSD

Tot Ion: 95 Resp: 648770

Ion Ratio Lower Upper

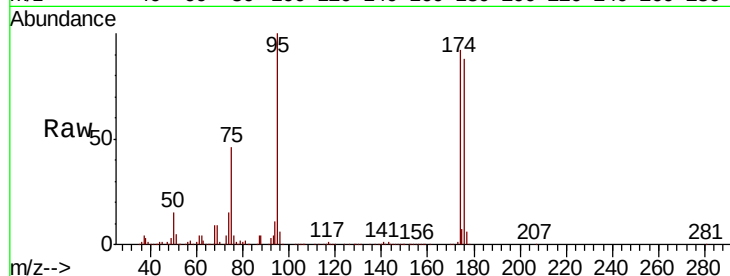
95 100

174 92.7 0.0 185.0

176 89.9 0.0 181.2

Manual Integrations
APPROVED

MMDadoda
8/12/2019 3:12:13 PM

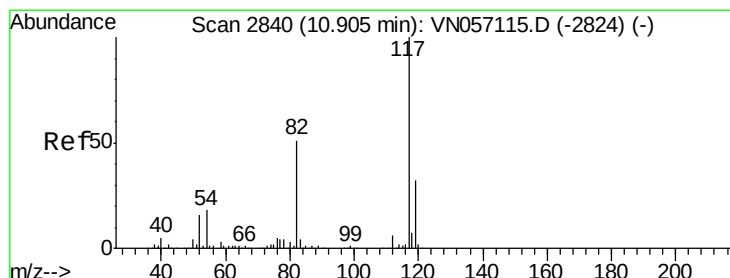
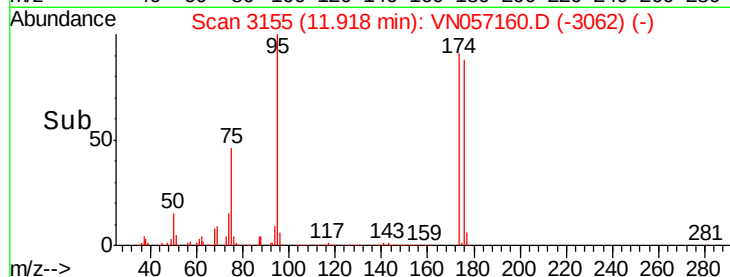
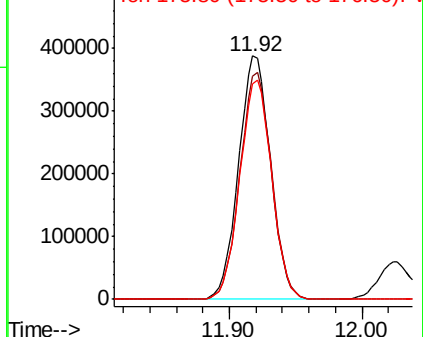


Abundance

Ion 94.90 (94.60 to 95.60): VN057115.D (-3140) (-)

Ion 173.80 (173.50 to 174.50): VN057115.D (-3140) (-)

Ion 175.80 (175.50 to 176.50): VN057115.D (-3140) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.91 min Scan# 2841

Delta R.T. 0.00 min

Lab File: VN057160.D

Acq: 9 Aug 2019 20:48

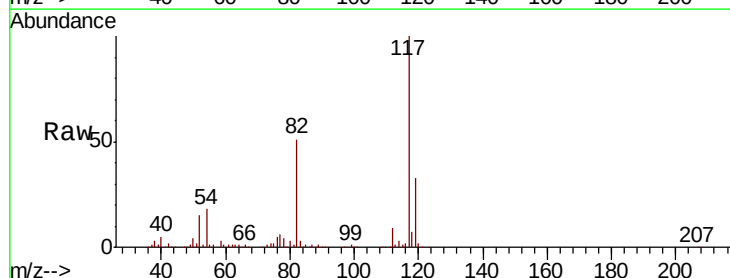
Tgt Ion: 117 Resp: 1464226

Ion Ratio Lower Upper

117 100

82 51.3 40.8 61.2

119 32.5 25.7 38.5

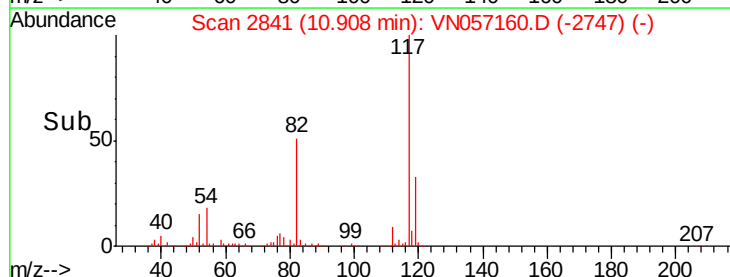
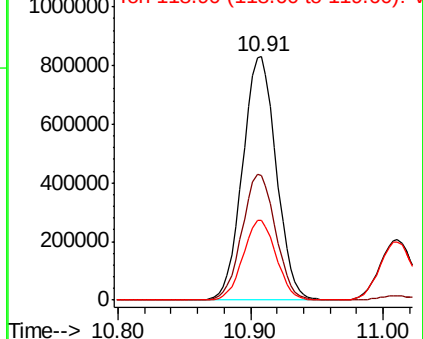


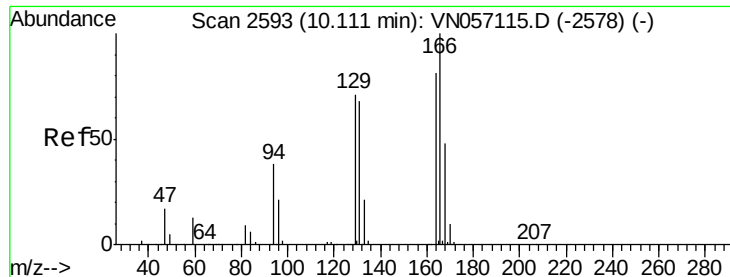
Abundance

Ion 116.90 (116.60 to 117.60): VN057115.D (-2824) (-)

Ion 82.00 (81.70 to 82.70): VN057115.D (-2824) (-)

Ion 118.90 (118.60 to 119.60): VN057115.D (-2824) (-)





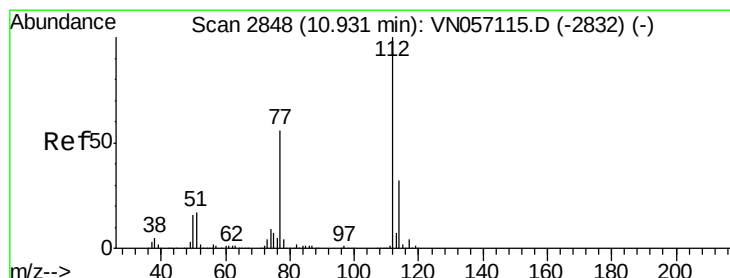
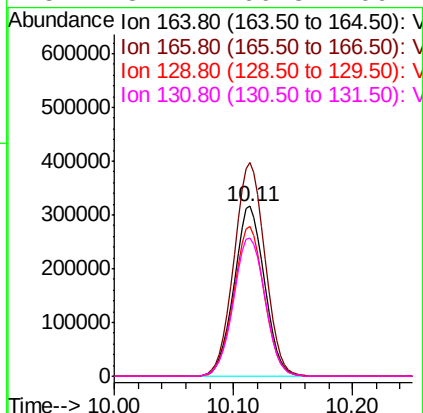
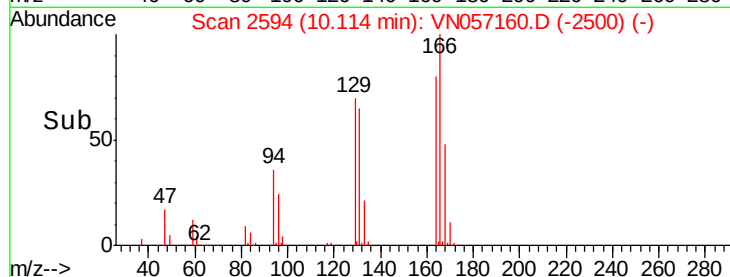
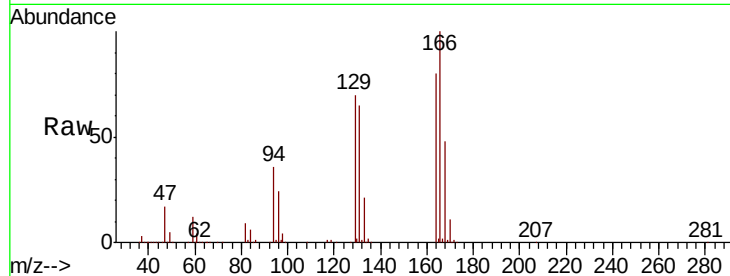
#64
Tetrachloroethene
Concen: 45.962 ug/l
RT: 10.11 min Scan# 2594
Delta R.T. 0.00 min
Lab File: VN057160.D
Acq: 9 Aug 2019 20:48

Instrument :
MSVOA_N
ClientSampleId :
MW-4R_080819MSD

Tot Ion	Ratio	Lower	Upper
164	100		
166	125.5	98.3	147.5
129	88.0	69.8	104.6
131	81.1	66.8	100.2

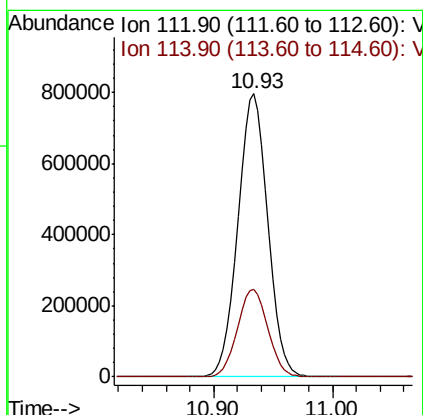
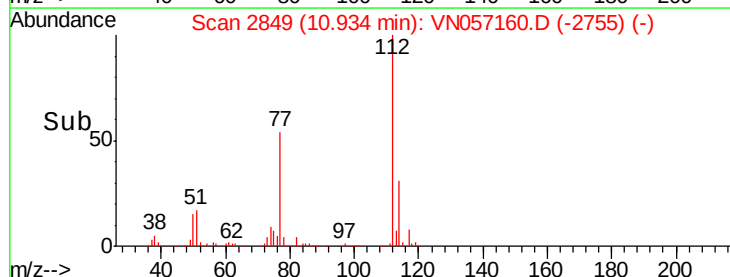
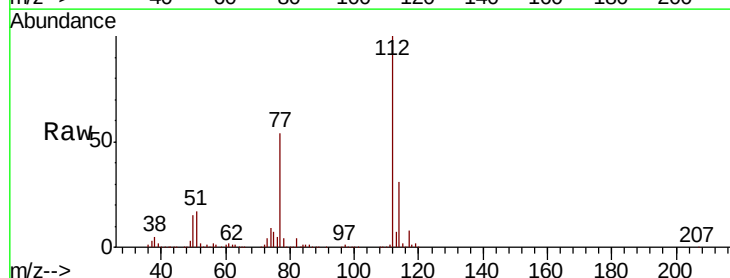
Manual Integrations
APPROVED

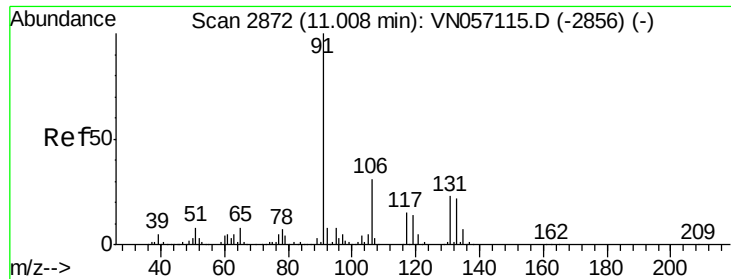
MMDadoda
8/12/2019 3:12:13 PM



#65
Chlorobenzene
Concen: 46.916 ug/l
RT: 10.93 min Scan# 2849
Delta R.T. 0.00 min
Lab File: VN057160.D
Acq: 9 Aug 2019 20:48

Tgt Ion	Ratio	Lower	Upper
112	100		
114	30.7	25.4	38.2





#66

1,1,1,2-Tetrachloroethane

Concen: 48.492 ug/l

RT: 11.01 min Scan# 2873

Delta R.T. 0.00 min

Lab File: VN057160.D

Acq: 9 Aug 2019 20:48

Instrument :

MSVOA_N

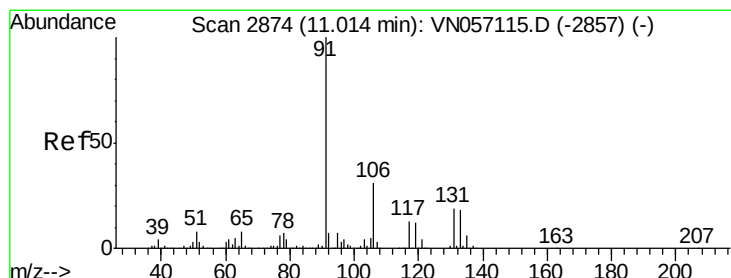
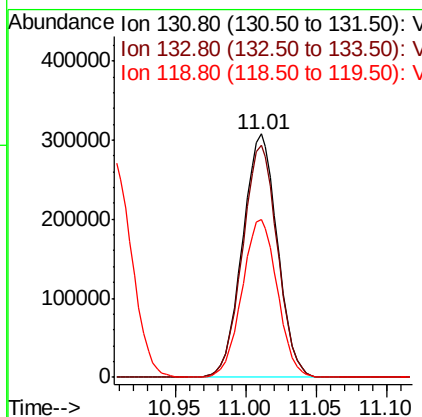
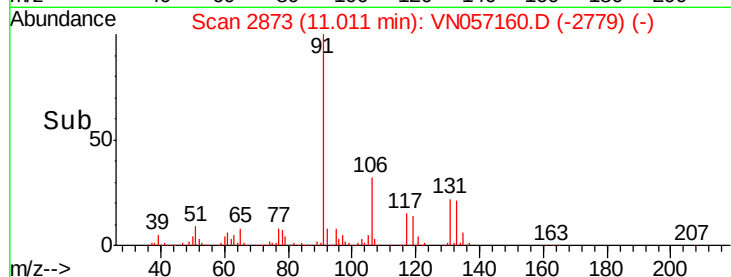
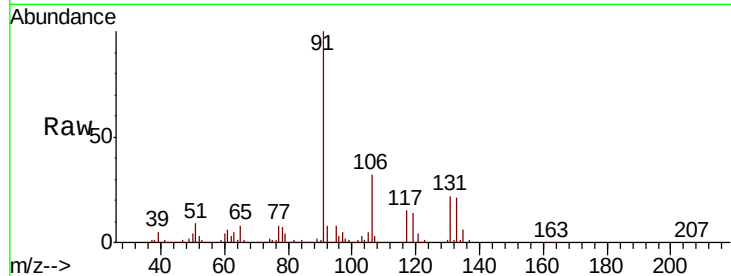
ClientSampleId :

MW-4R_080819MSD

Tot Ion:	131	Resp:	534113
Ion Ratio	Lower	Upper	
131	100		
133	95.7	47.6	142.8
119	65.5	32.6	97.7

Manual Integrations
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#67

Ethyl Benzene

Concen: 47.258 ug/l

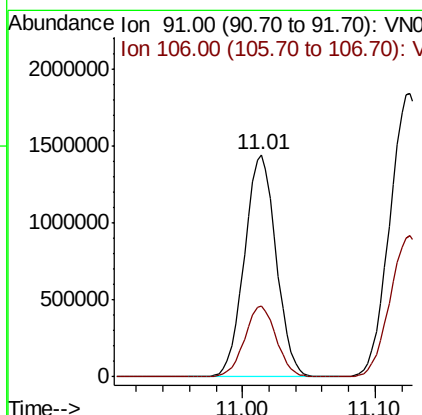
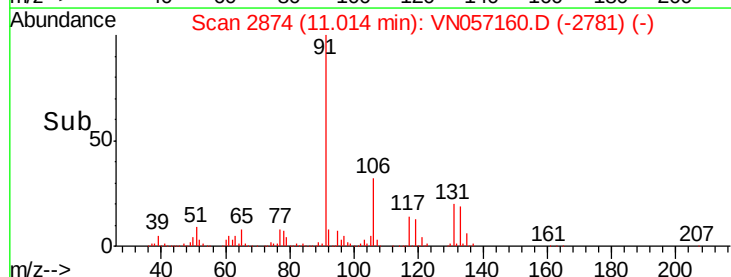
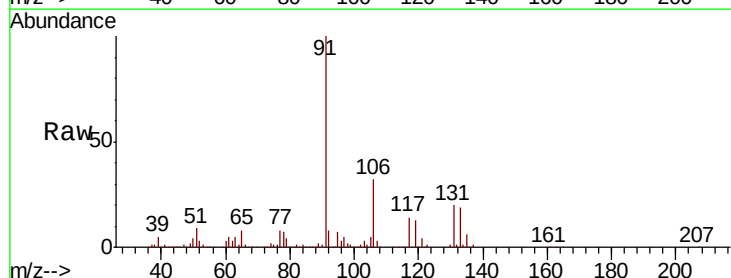
RT: 11.01 min Scan# 2874

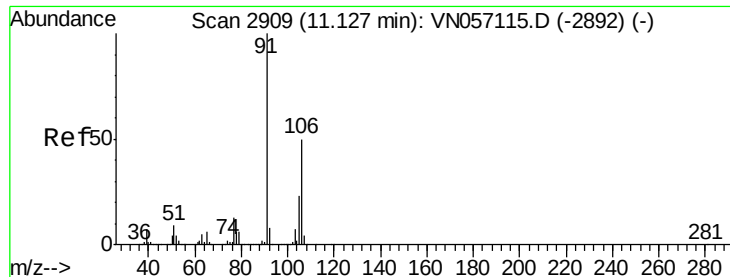
Delta R.T. -0.00 min

Lab File: VN057160.D

Acq: 9 Aug 2019 20:48

Tgt Ion:	91	Resp:	2396245
Ion Ratio	Lower	Upper	
91	100		
106	32.1	25.0	37.4





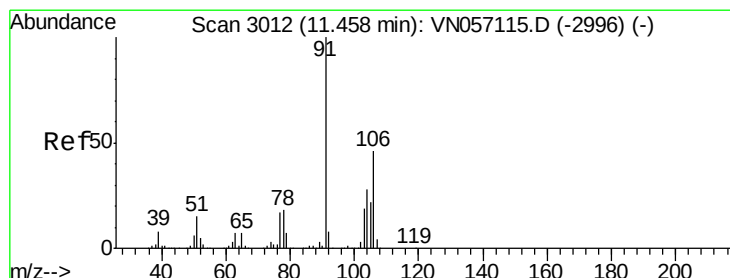
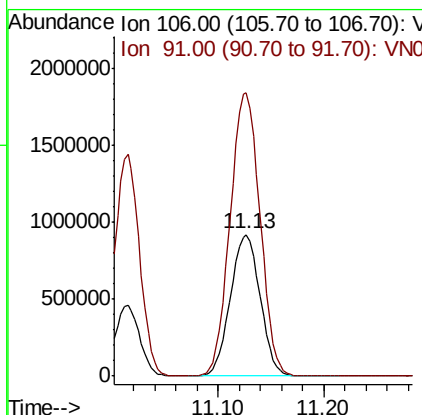
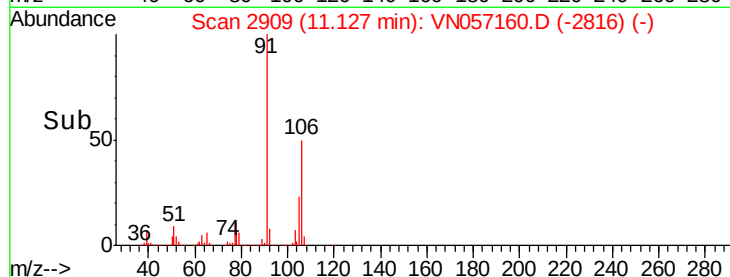
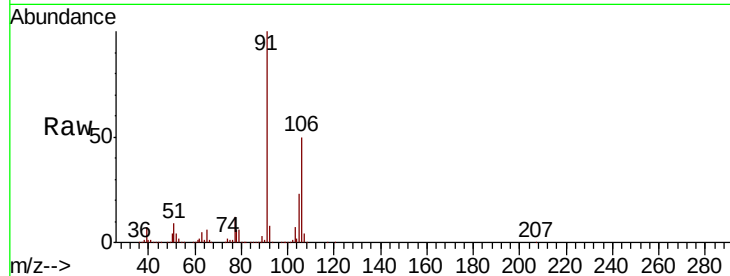
#68
m/p-Xylenes
Concen: 96.112 ug/l
RT: 11.13 min Scan# 2909
Delta R.T. -0.00 min
Lab File: VN057160.D
Acq: 9 Aug 2019 20:48

Instrument :
MSVOA_N
ClientSampleId :
MW-4R_080819MSD

Tot Ion:106 Resp: 1795408
Ion Ratio Lower Upper
106 100
91 201.4 159.8 239.8

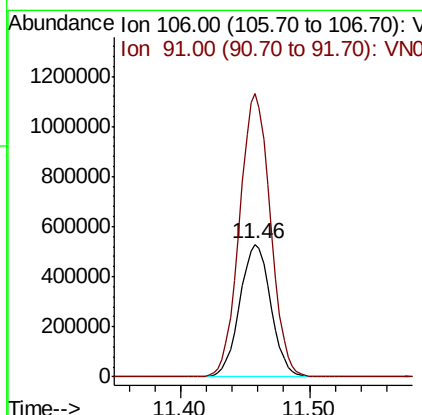
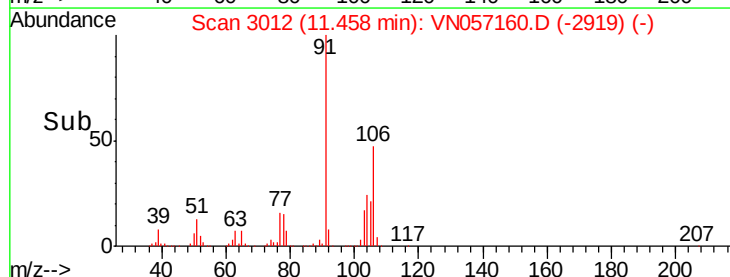
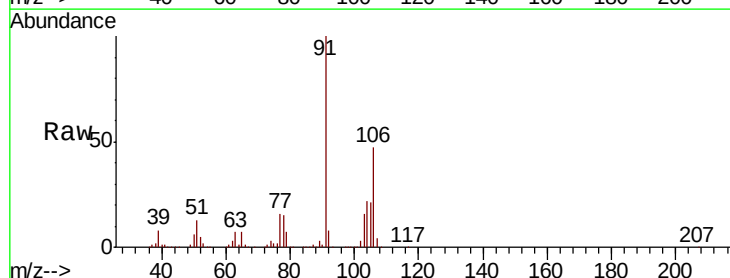
Manual Integrations
APPROVED

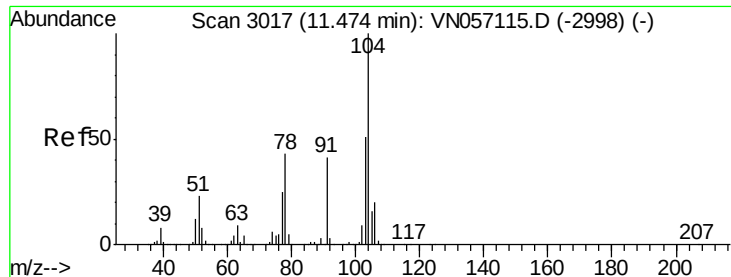
MMDadoda
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#69
o-Xylene
Concen: 47.498 ug/l
RT: 11.46 min Scan# 3012
Delta R.T. -0.00 min
Lab File: VN057160.D
Acq: 9 Aug 2019 20:48

Tgt Ion:106 Resp: 883059
Ion Ratio Lower Upper
106 100
91 213.0 106.8 320.5





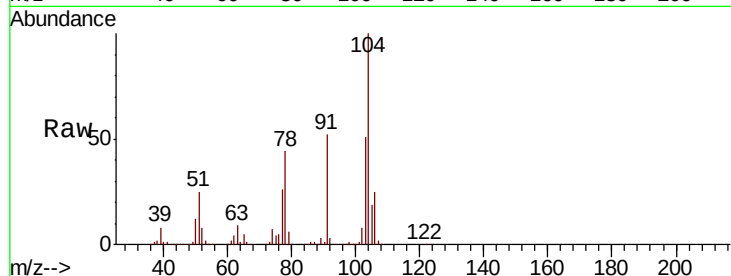
#70
Stvrene
Concen: 44.135 ug/l
RT: 11.47 min Scan# 3017
Delta R.T. -0.00 min
Lab File: VN057160.D
Acq: 9 Aug 2019 20:48

Instrument :
MSVOA_N
ClientSampleId :
MW-4R_080819MSD

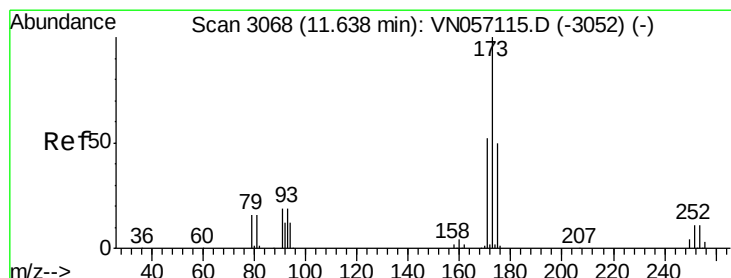
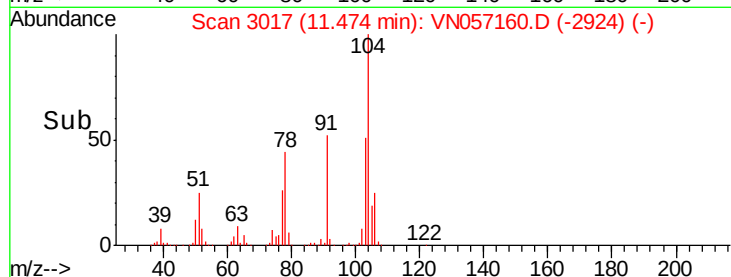
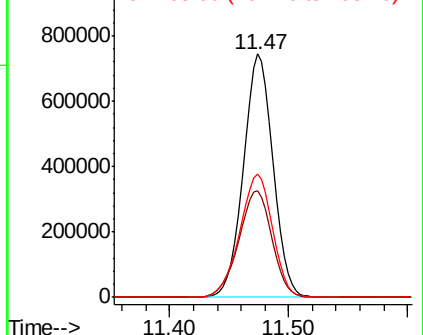
Tot Ion	Ratio	Lower	Upper
104	100		
78	49.0	38.5	57.7
103	56.0	44.6	66.8

Manual Integrations
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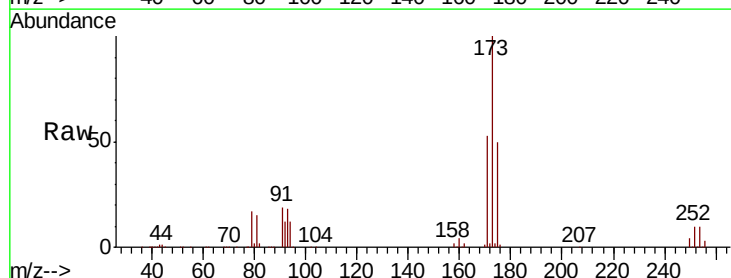


Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): V
Ion 103.00 (102.70 to 103.70): V

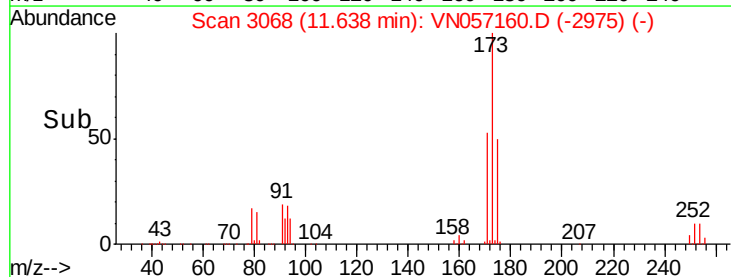
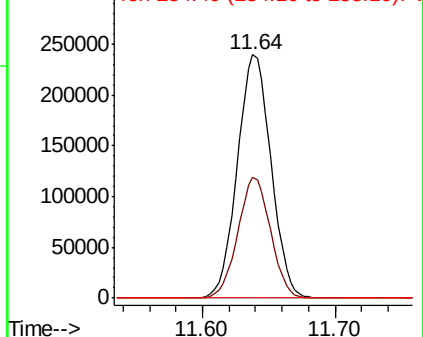


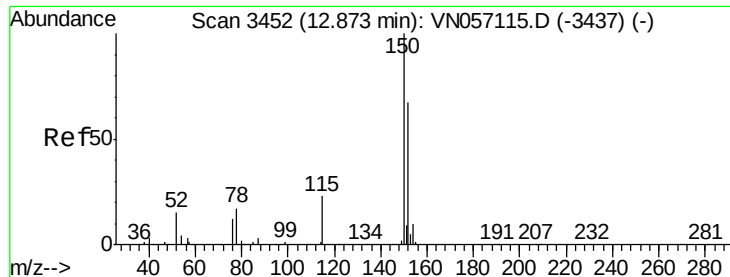
#71
Bromoform
Concen: 52.434 ug/l
RT: 11.64 min Scan# 3068
Delta R.T. -0.00 min
Lab File: VN057160.D
Acq: 9 Aug 2019 20:48

Tgt Ion	Ratio	Lower	Upper
173	100		
175	48.2	24.6	73.8
254	0.2	0.1	0.1#



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: 12.87 min Scan# 3452

Delta R.T. -0.00 min

Lab File: VN057160.D

Acq: 9 Aug 2019 20:48

Instrument :

MSVOA_N

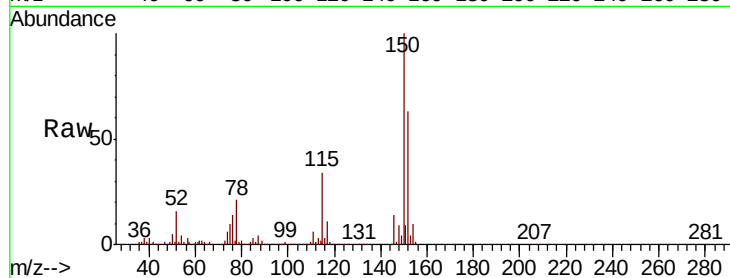
ClientSampleId :

MW-4R_080819MSD

Tot Ion:	152	Resp:	593622
Ion Ratio	Lower	Upper	
152	100		
115	54.7	27.5	82.5
150	172.1	0.0	341.6

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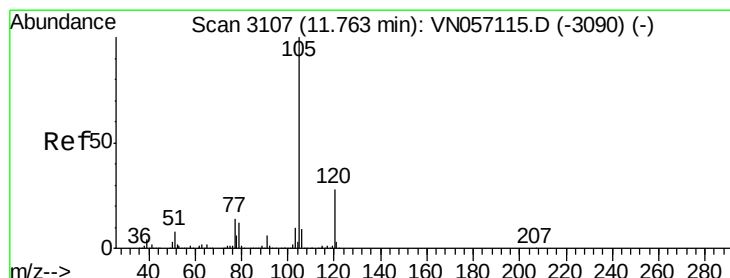
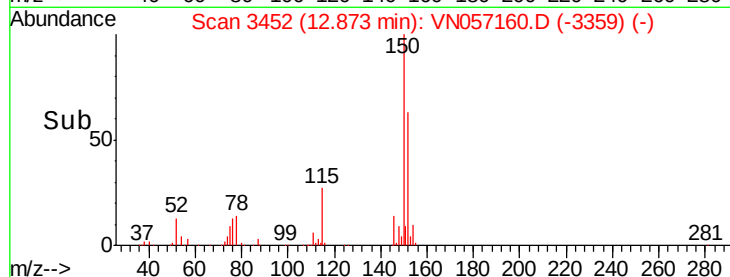
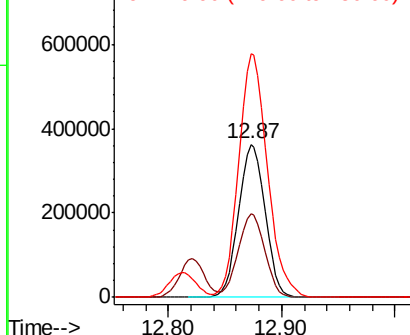


Abundance

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: 48.930 ug/l

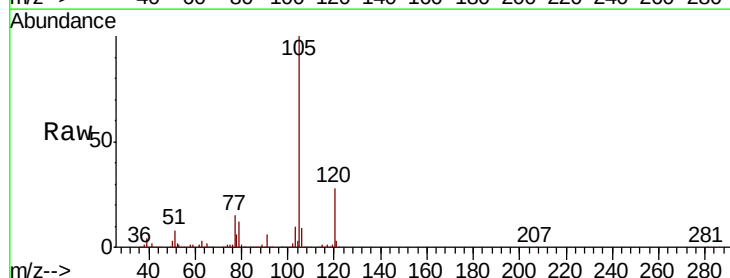
RT: 11.76 min Scan# 3107

Delta R.T. 0.00 min

Lab File: VN057160.D

Acq: 9 Aug 2019 20:48

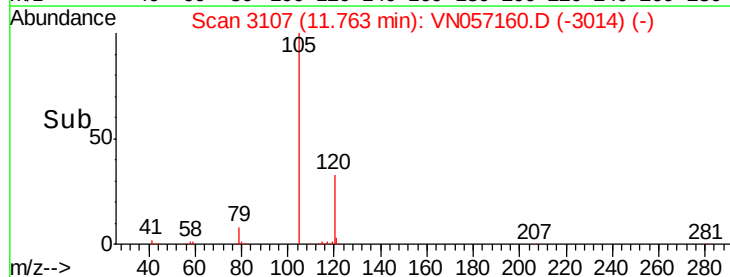
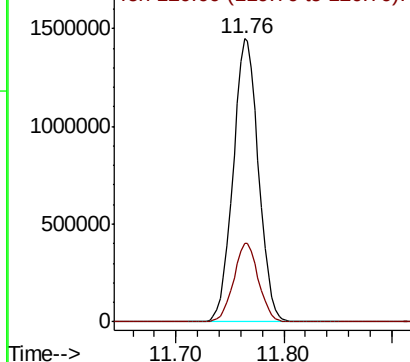
Tgt Ion:	105	Resp:	2368484
Ion Ratio	Lower	Upper	
105	100		
120	27.2	13.7	41.0

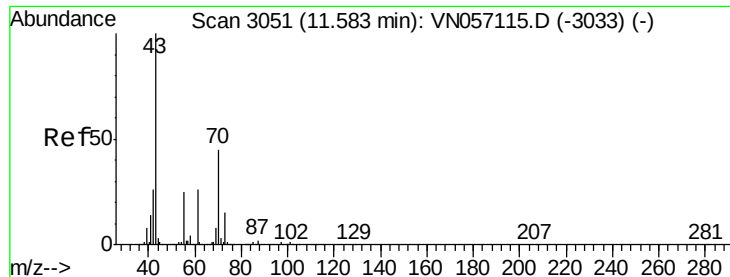


Abundance

Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





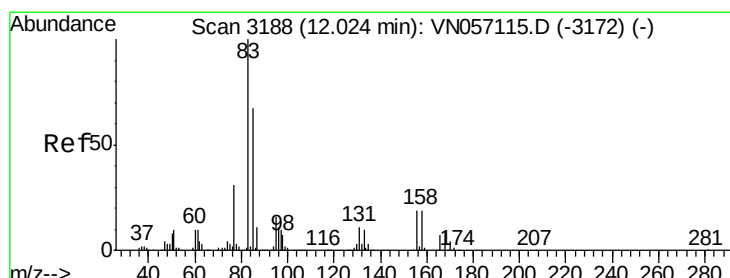
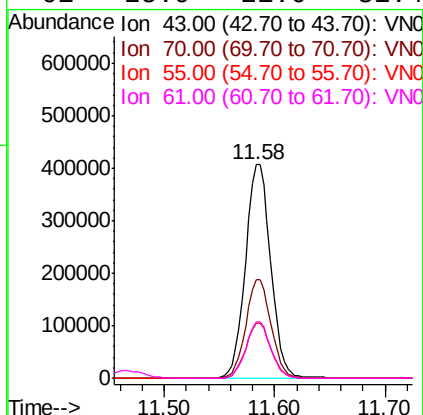
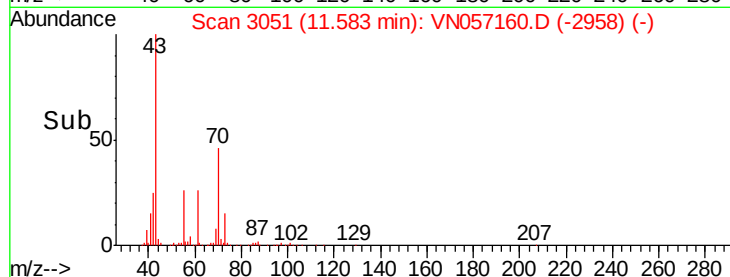
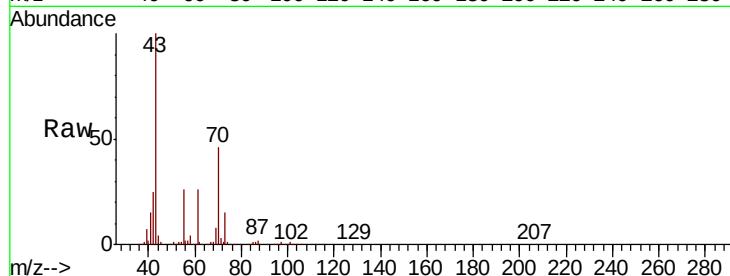
#74
N-amvl acetate
Concen: 42.780 ug/l
RT: 11.58 min Scan# 3051
Delta R.T. -0.00 min
Lab File: VN057160.D
Acq: 9 Aug 2019 20:48

Instrument :
MSVOA_N
ClientSampleId :
MW-4R_080819MSD

Tot Ion	Ion	Ratio	Resp	Lower	Upper
43	100				
70	46.2	36.8	55.2		
55	25.6	20.6	31.0		
61	25.9	21.0	31.4		

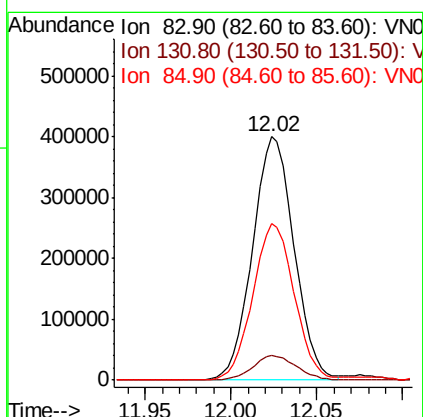
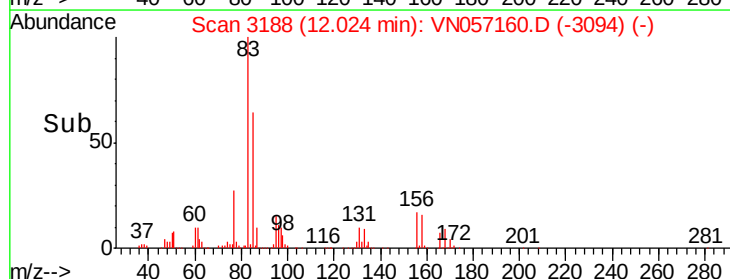
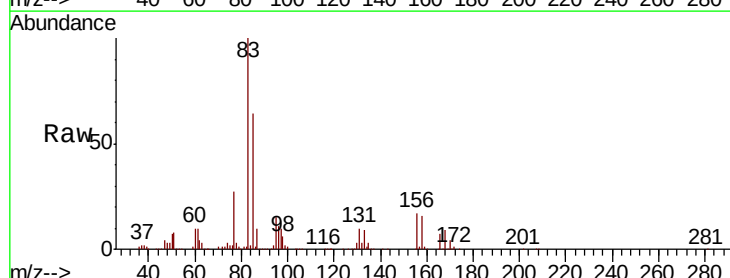
Manual Integrations
APPROVED

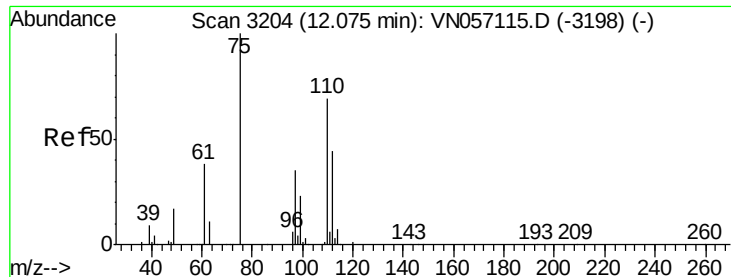
MMDadoda
8/12/2019 3:12:13 PM



#75
1,1,2,2-Tetrachloroethane
Concen: 51.823 ug/l
RT: 12.02 min Scan# 3188
Delta R.T. 0.00 min
Lab File: VN057160.D
Acq: 9 Aug 2019 20:48

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
83	100				
131	10.6	5.5	16.4		
85	64.2	32.4	97.0		





#76

1,2,3-Trichloropropane

Concen: 50.346 ug/l m

RT: 12.08 min Scan# 3204

Delta R.T. 0.00 min

Lab File: VN057160.D

Acq: 9 Aug 2019 20:48

Instrument :

MSVOA_N

ClientSampleId :

MW-4R 080819MSD

Tot Ion: 75 Resp: 583066

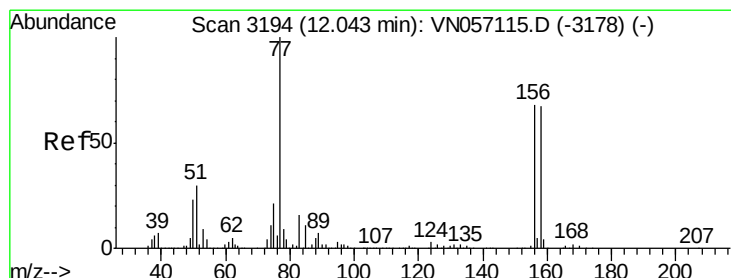
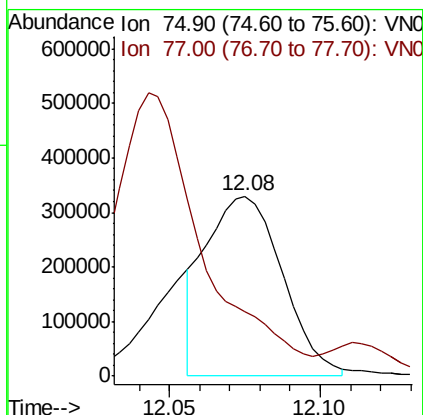
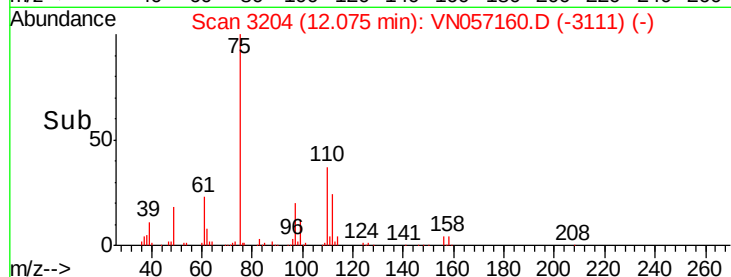
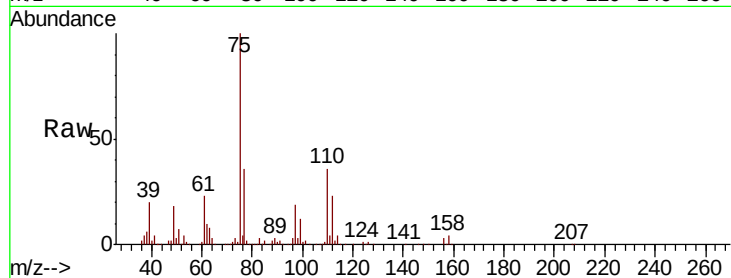
Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0

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#77

Bromobenzene

Concen: 43.446 ug/l

RT: 12.04 min Scan# 3194

Delta R.T. -0.00 min

Lab File: VN057160.D

Acq: 9 Aug 2019 20:48

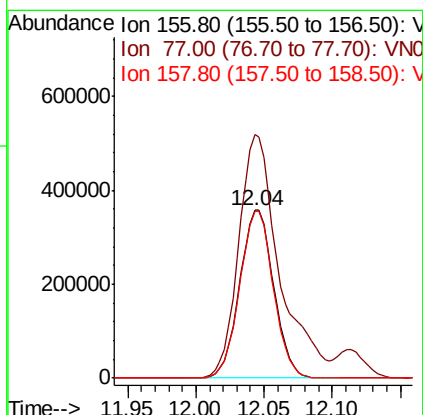
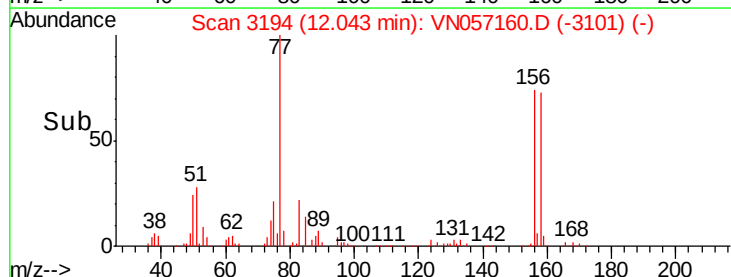
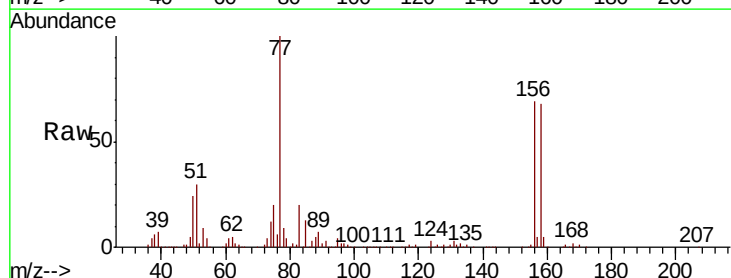
Tgt Ion: 156 Resp: 619895

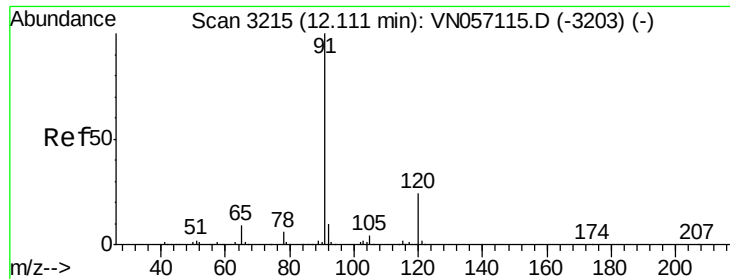
Ion Ratio Lower Upper

156 100

77 174.1 88.7 266.1

158 98.0 49.3 147.8





#78

n-propylbenzene

Concen: 43.791 ug/l

RT: 12.11 min Scan# 3216

Delta R.T. 0.00 min

Lab File: VN057160.D

Acq: 9 Aug 2019 20:48

Instrument :

MSVOA_N

ClientSampleId :

MW-4R_080819MSD

Tot Ion: 91 Resp: 2493887

Ion Ratio Lower Upper

91 100

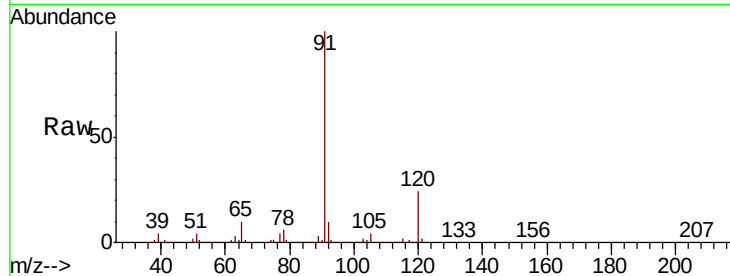
120 23.9 12.0 36.0

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Abundance Ion 91.00 (90.70 to 91.70): VN057115.D (-3203) (-)

Ion 120.00 (119.70 to 120.70): VN057115.D (-3203) (-)

12.11

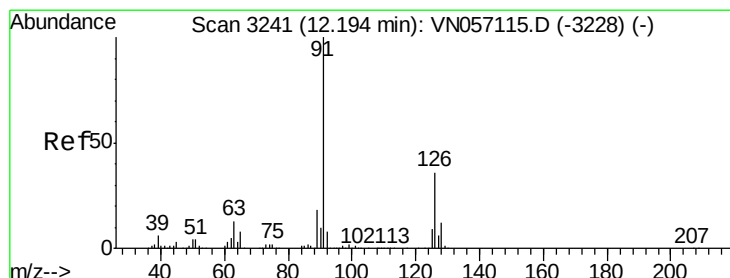
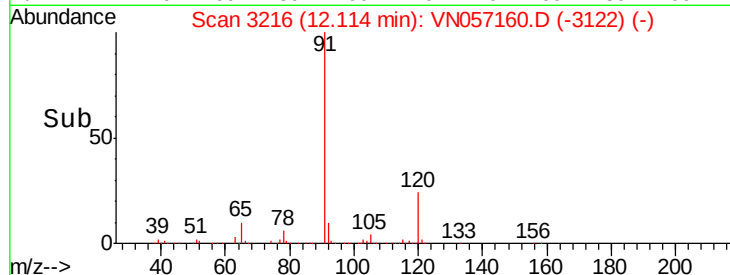
1500000

1000000

500000

0

Time-->



#79

2-Chlorotoluene

Concen: 48.316 ug/l

RT: 12.19 min Scan# 3241

Delta R.T. 0.00 min

Lab File: VN057160.D

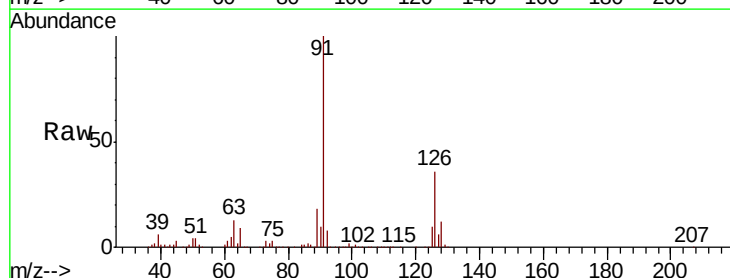
Acq: 9 Aug 2019 20:48

Tgt Ion: 91 Resp: 1535181

Ion Ratio Lower Upper

91 100

126 36.3 18.1 54.3



Abundance Ion 91.00 (90.70 to 91.70): VN057115.D (-3228) (-)

Ion 125.90 (125.60 to 126.60): VN057115.D (-3228) (-)

12.19

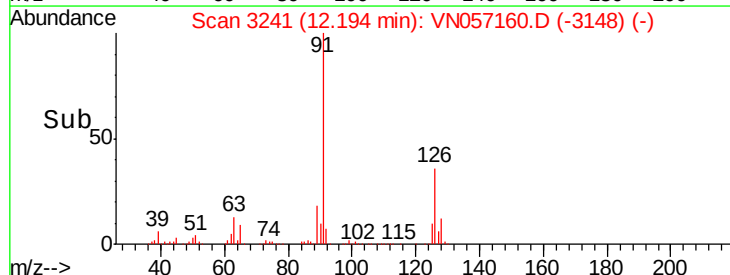
1500000

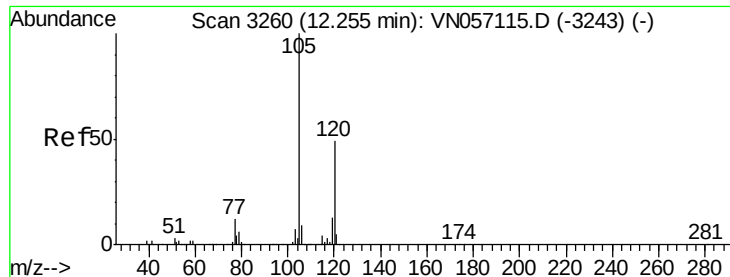
1000000

500000

0

Time-->





#80

1,3,5-Trimethylbenzene

Concen: 43.116 ug/l

RT: 12.26 min Scan# 3261

Delta R.T. 0.00 min

Lab File: VN057160.D

Acq: 9 Aug 2019 20:48

Instrument :

MSVOA_N

ClientSampleId :

MW-4R 080819MSD

Tot Ion:105 Resp: 1975964

Ion Ratio Lower Upper

105 100

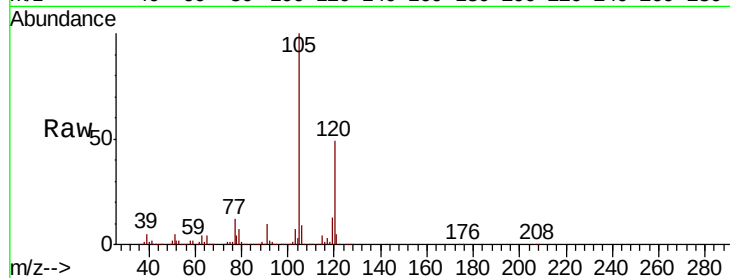
120 49.3 24.6 73.6

Manual Integrations

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

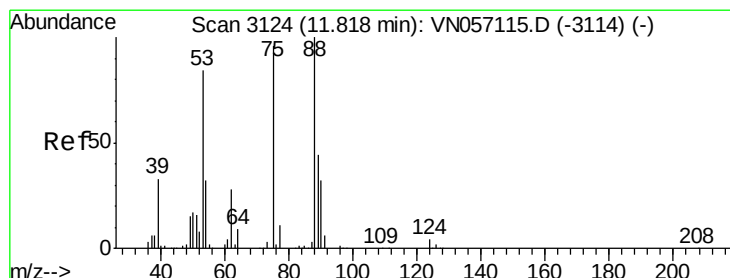
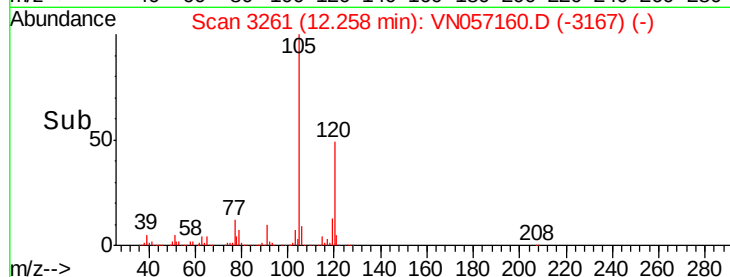
12.26

1000000

500000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 45.789 ug/l

RT: 11.82 min Scan# 3124

Delta R.T. -0.00 min

Lab File: VN057160.D

Acq: 9 Aug 2019 20:48

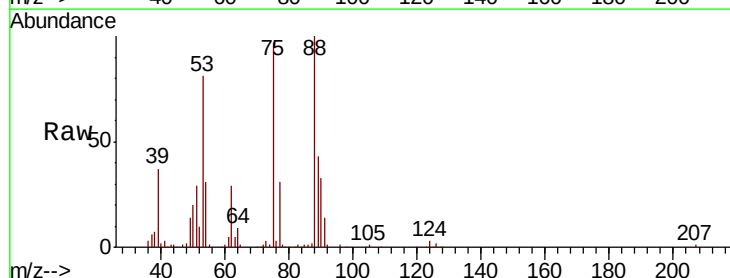
Tgt Ion: 75 Resp: 184863

Ion Ratio Lower Upper

75 100

53 84.6 70.6 106.0

89 44.4 36.4 54.6



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

250000

200000

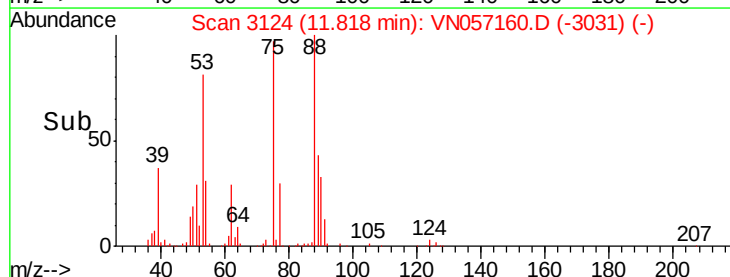
150000

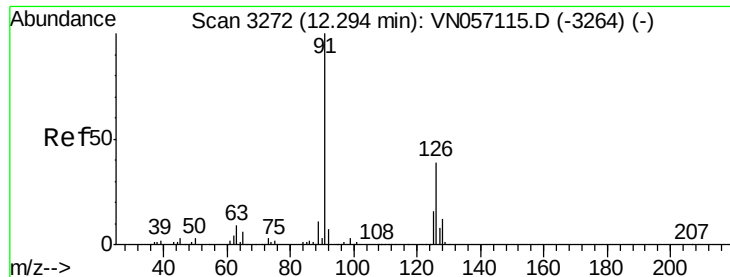
100000

50000

0

Time-->





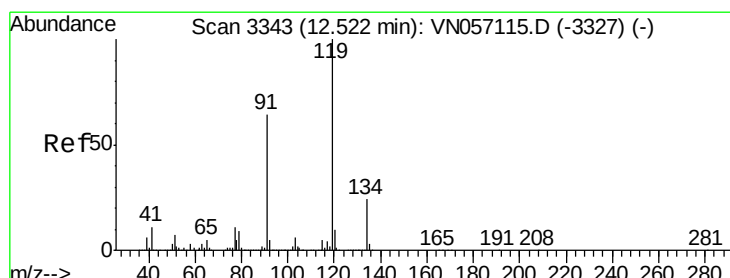
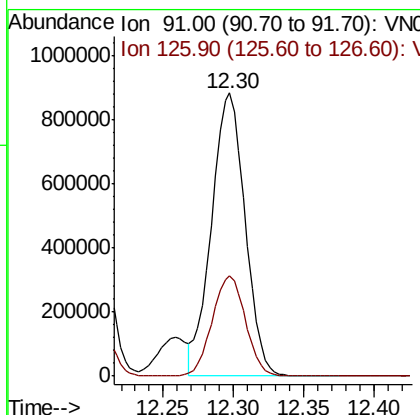
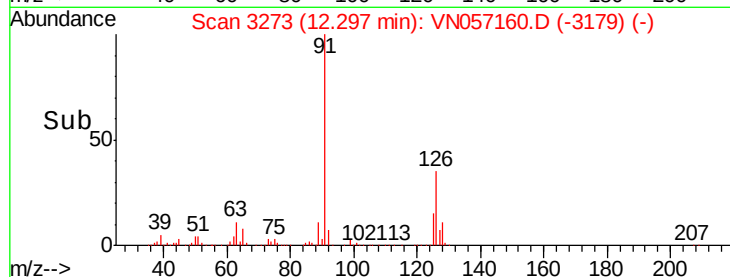
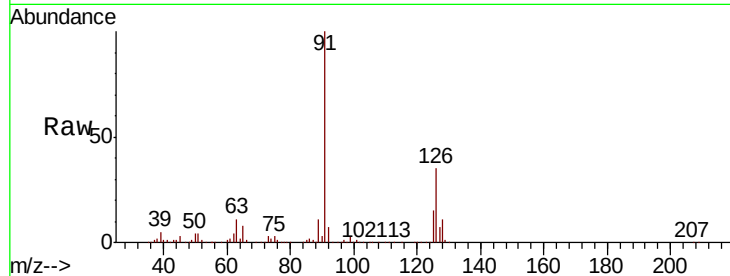
#82
4-Chlorotoluene
Concen: 44.228 ug/l
RT: 12.30 min Scan# 3273
Delta R.T. 0.00 min
Lab File: VN057160.D
Acq: 9 Aug 2019 20:48

Instrument :
MSVOA_N
ClientSampleId :
MW-4R_080819MSD

Tot Ion: 91 Resp: 1458410
Ion Ratio Lower Upper
91 100
126 35.2 17.9 53.7

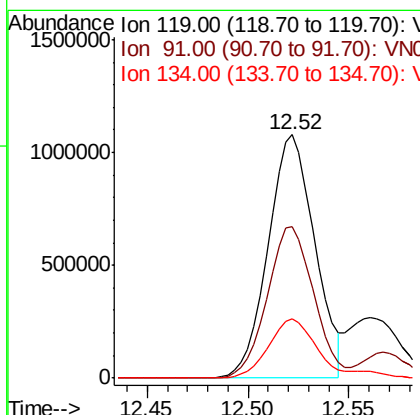
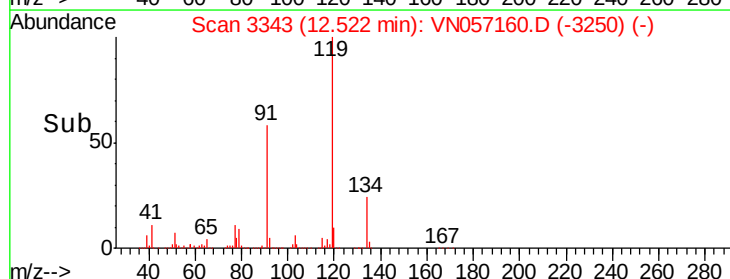
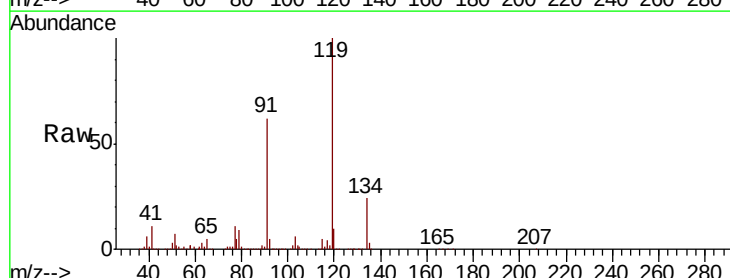
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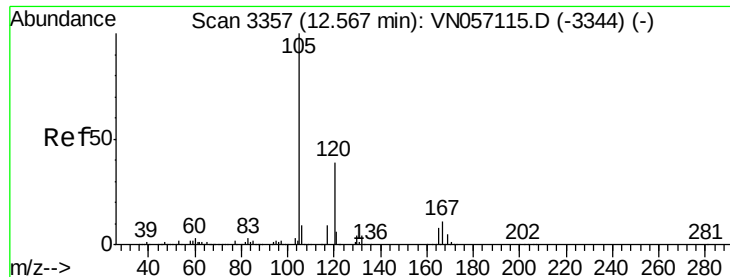
MMDadoda
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#83
tert-Butylbenzene
Concen: 47.796 ug/l
RT: 12.52 min Scan# 3343
Delta R.T. 0.00 min
Lab File: VN057160.D
Acq: 9 Aug 2019 20:48

Tgt Ion: 119 Resp: 1730089
Ion Ratio Lower Upper
119 100
91 62.2 31.4 94.2
134 26.6 13.2 39.6





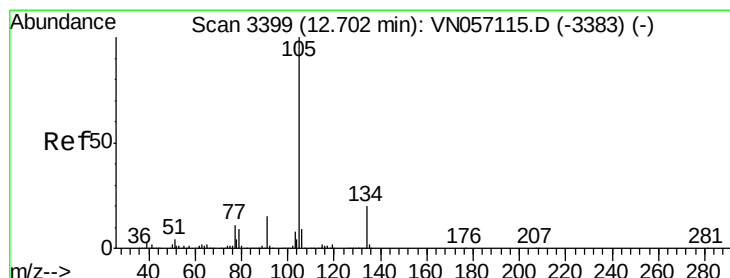
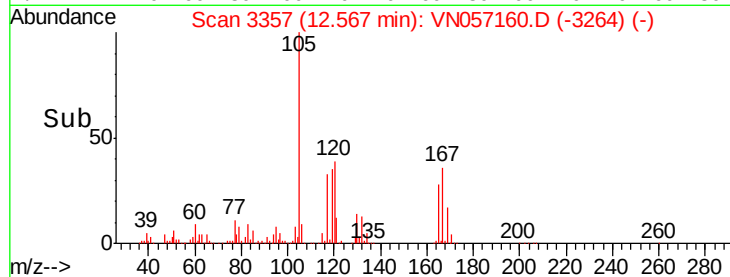
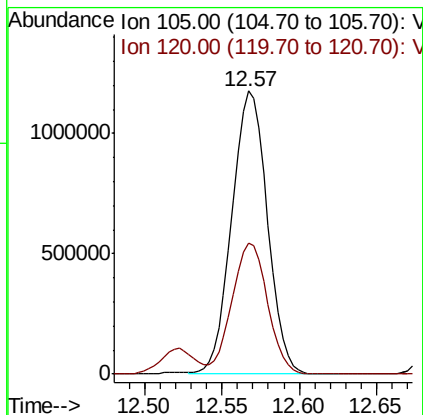
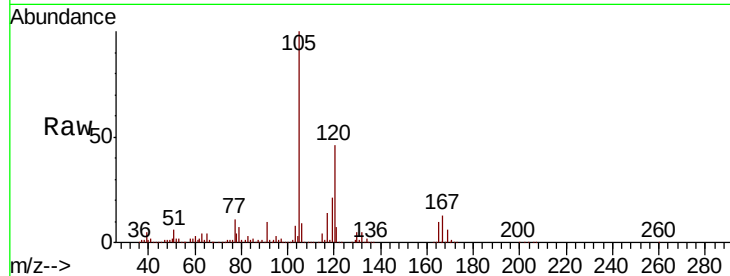
#84
 1,2,4-Trimethylbenzene
 Concen: 42.355 ug/l
 RT: 12.57 min Scan# 3357
 Delta R.T. -0.00 min
 Lab File: VN057160.D
 Acq: 9 Aug 2019 20:48

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-4R_080819MSD

Tot Ion:105 Resp: 1876217
 Ion Ratio Lower Upper
 105 100
 120 46.6 23.3 69.8

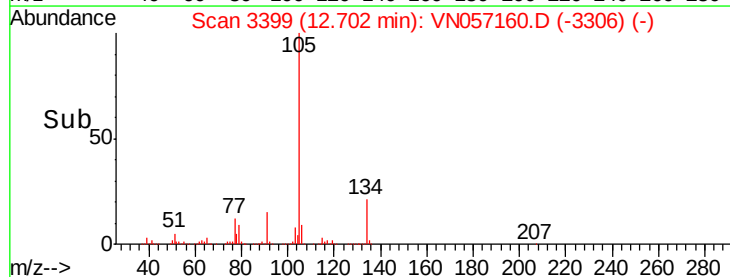
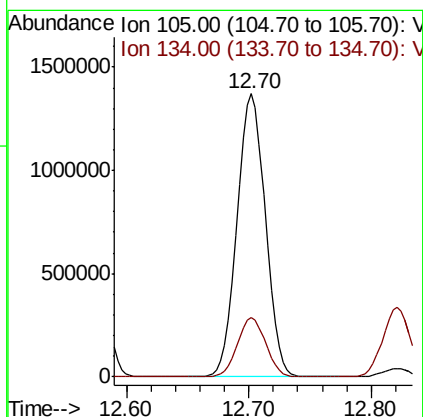
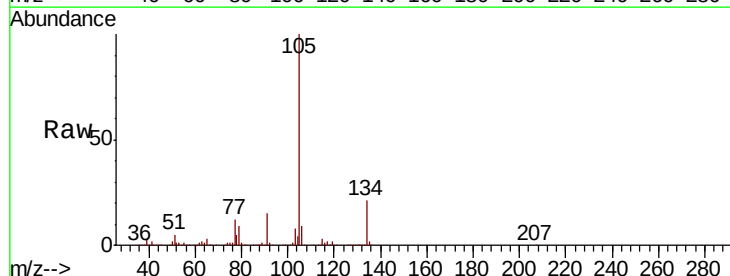
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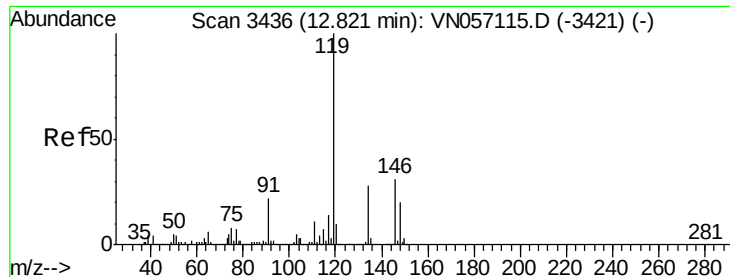
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#85
 sec-Butylbenzene
 Concen: 42.373 ug/l
 RT: 12.70 min Scan# 3399
 Delta R.T. -0.00 min
 Lab File: VN057160.D
 Acq: 9 Aug 2019 20:48

Tgt Ion:105 Resp: 2191507
 Ion Ratio Lower Upper
 105 100
 134 21.0 10.2 30.4





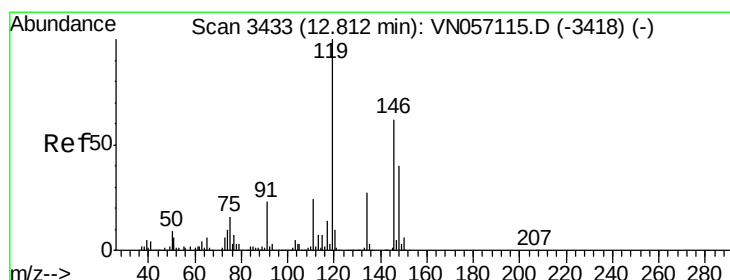
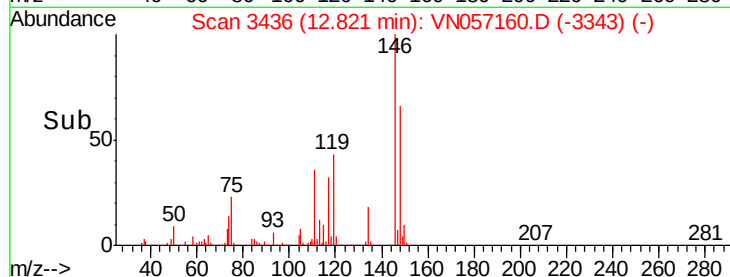
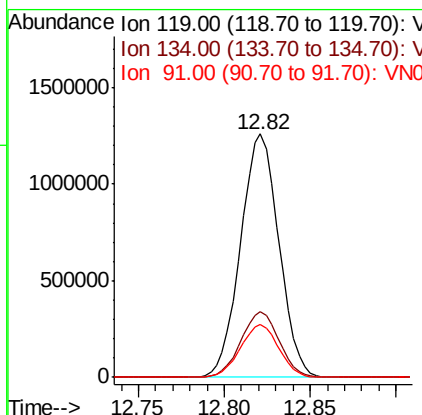
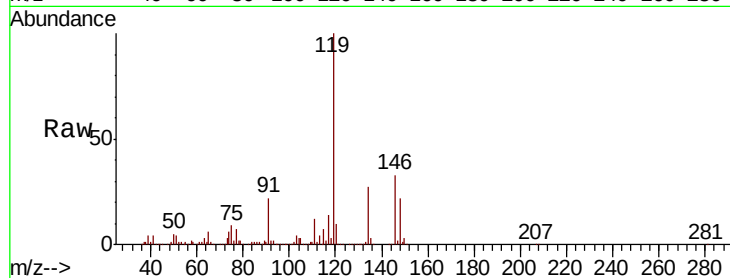
#86
 p-Isopropyltoluene
 Concen: 42.853 ug/l
 RT: 12.82 min Scan# 3436
 Delta R.T. -0.00 min
 Lab File: VN057160.D
 Acq: 9 Aug 2019 20:48

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-4R_080819MSD

Tot Ion	Ratio	Lower	Upper
119	100		
134	26.9	13.8	41.3
91	21.7	11.0	33.0

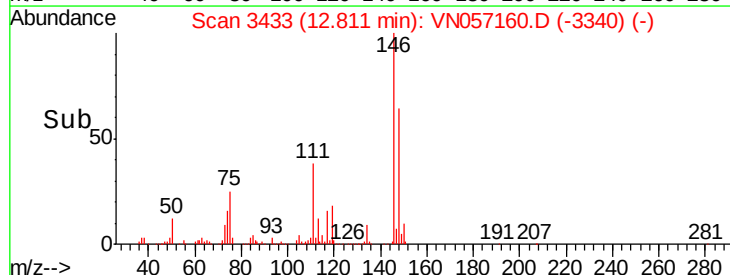
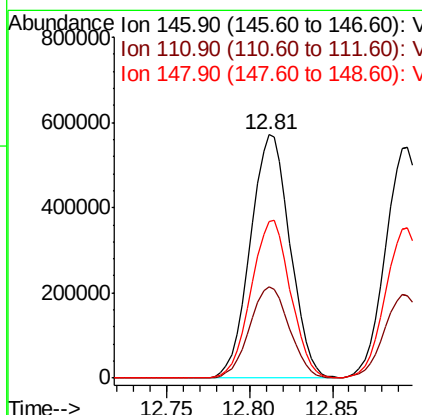
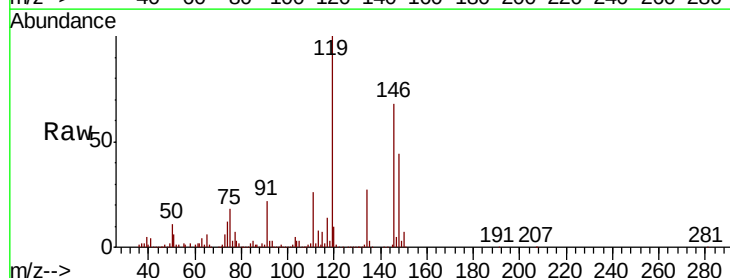
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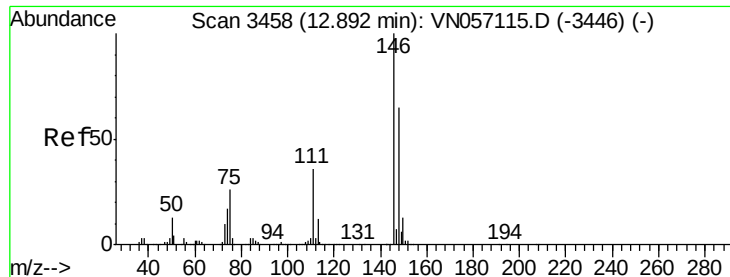
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#87
 1,3-Dichlorobenzene
 Concen: 46.760 ug/l
 RT: 12.81 min Scan# 3433
 Delta R.T. -0.00 min
 Lab File: VN057160.D
 Acq: 9 Aug 2019 20:48

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.7	18.8	56.4
148	64.5	32.4	97.0





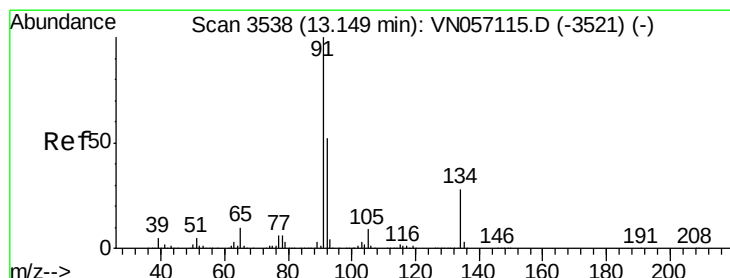
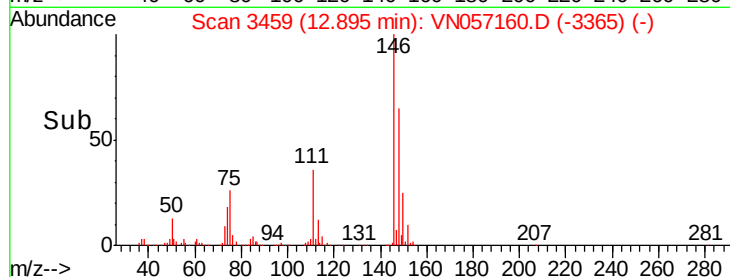
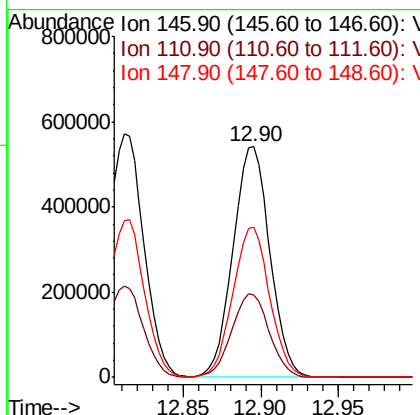
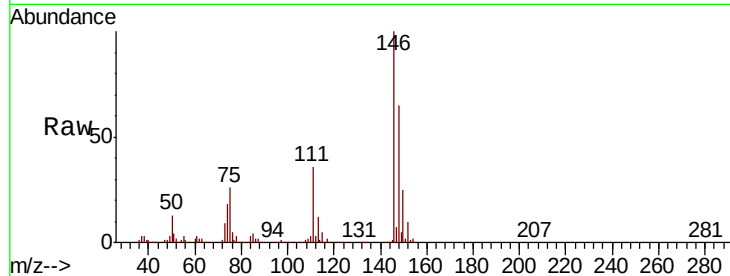
#88
 1,4-Dichlorobenzene
 Concen: 46.551 ug/l
 RT: 12.90 min Scan# 3459
 Delta R.T. 0.00 min
 Lab File: VN057160.D
 Acq: 9 Aug 2019 20:48

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-4R_080819MSD

Tot Ion	Ratio	Lower	Upper
146	100		
111	36.9	18.2	54.6
148	64.9	32.0	96.2

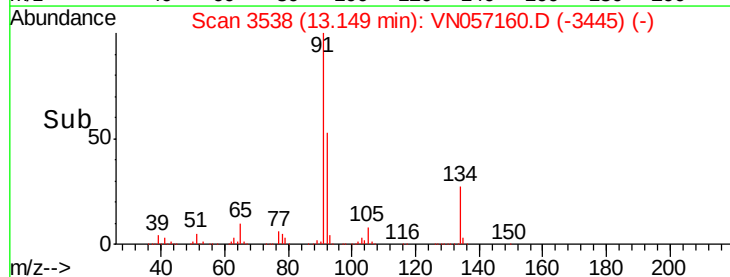
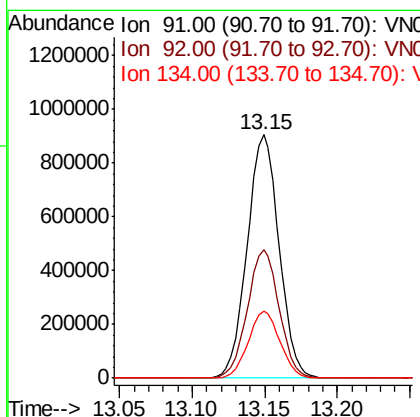
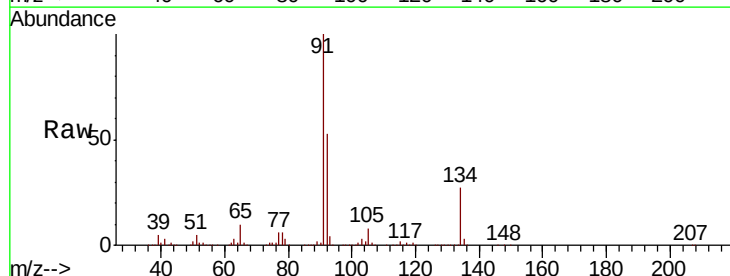
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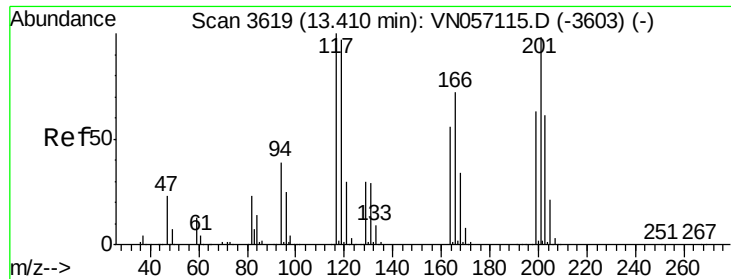
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#89
 n-Butylbenzene
 Concen: 44.095 ug/l
 RT: 13.15 min Scan# 3538
 Delta R.T. -0.00 min
 Lab File: VN057160.D
 Acq: 9 Aug 2019 20:48

Tgt Ion	Ratio	Lower	Upper
91	100		
92	52.7	26.5	79.4
134	27.5	14.1	42.3





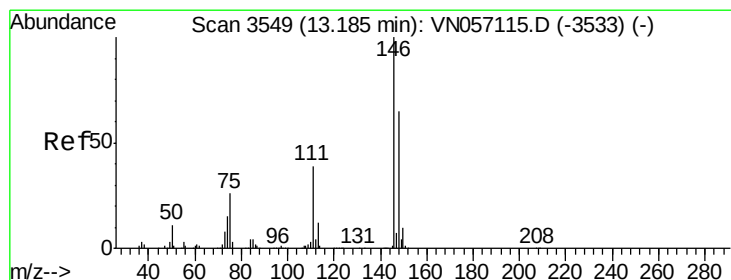
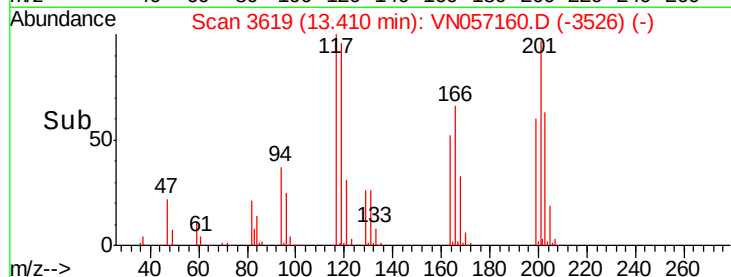
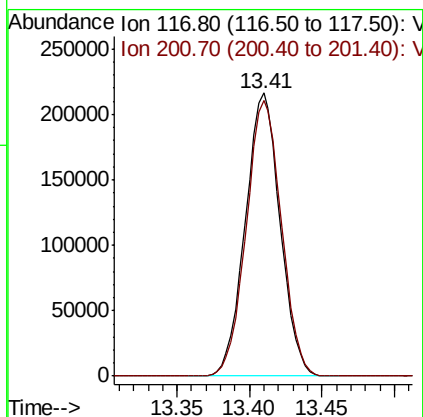
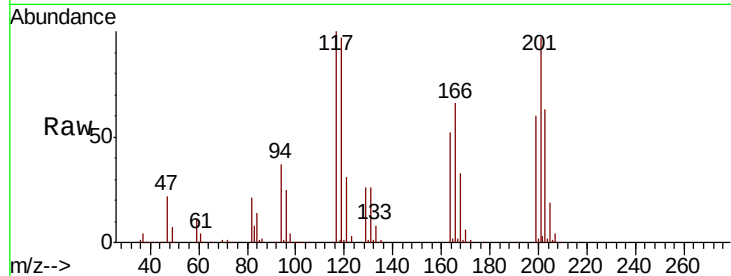
#90
Hexachloroethane
Concen: 50.050 ug/l
RT: 13.41 min Scan# 3619
Delta R.T. 0.00 min
Lab File: VN057160.D
Acq: 9 Aug 2019 20:48

Instrument :
MSVOA_N
ClientSampleId :
MW-4R_080819MSD

Tot Ion	Ratio	Resp	Lower	Upper
117	100			
201	98.4	49.3	147.8	

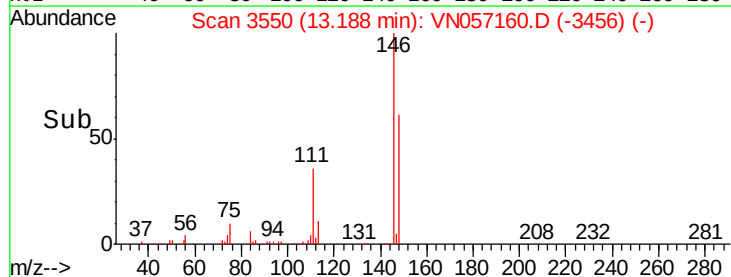
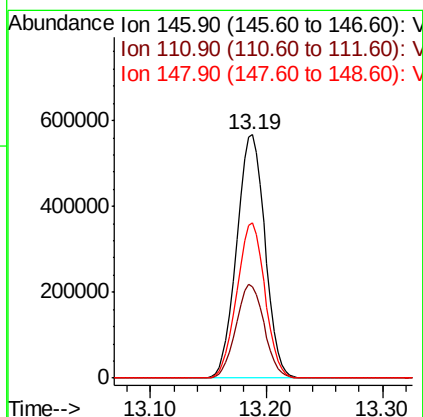
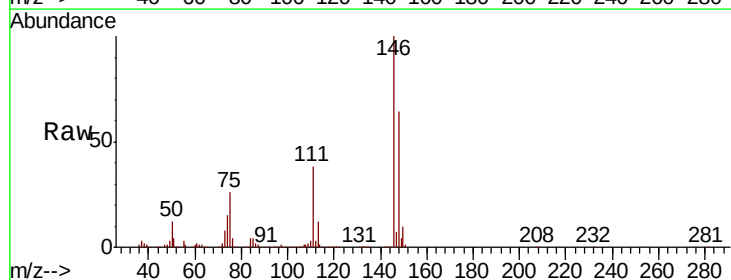
Manual Integrations
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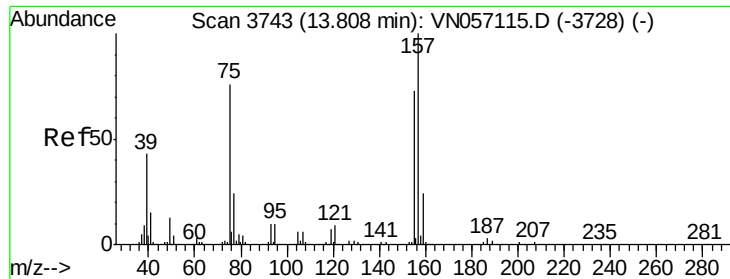
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#91
1,2-Dichlorobenzene
Concen: 47.135 ug/l
RT: 13.19 min Scan# 3550
Delta R.T. 0.00 min
Lab File: VN057160.D
Acq: 9 Aug 2019 20:48

Tgt Ion	Ratio	Resp	Lower	Upper
146	100			
111	38.2	19.2	57.6	
148	63.3	32.4	97.0	





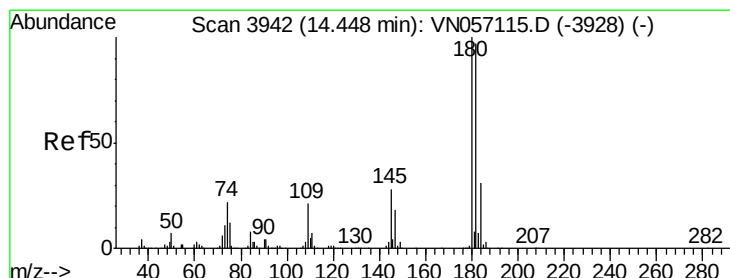
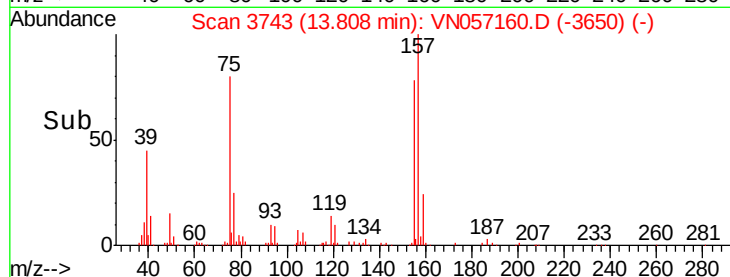
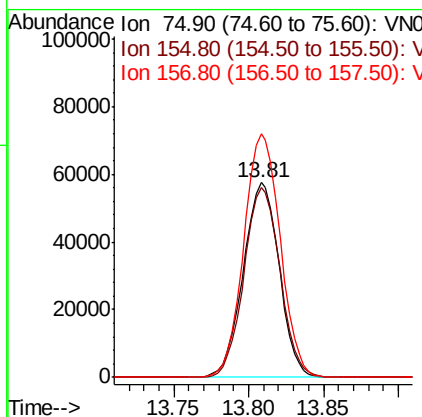
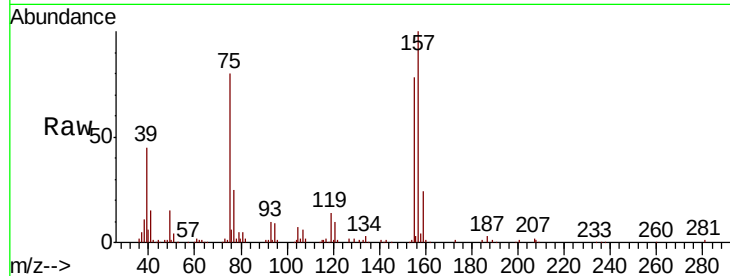
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 46.199 ug/l
 RT: 13.81 min Scan# 3743
 Delta R.T. -0.00 min
 Lab File: VN057160.D
 Acq: 9 Aug 2019 20:48

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-4R_080819MSD

Tot Ion	Ratio	Lower	Upper
75	100		
155	97.6	49.3	147.9
157	126.3	65.3	195.8

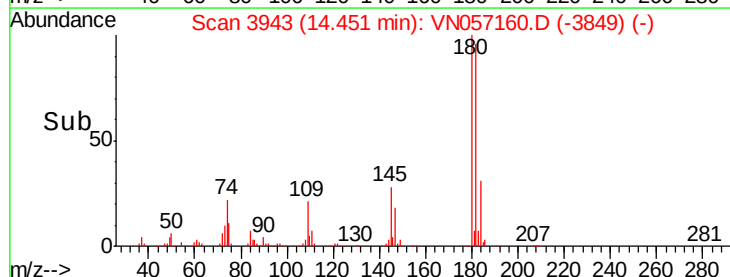
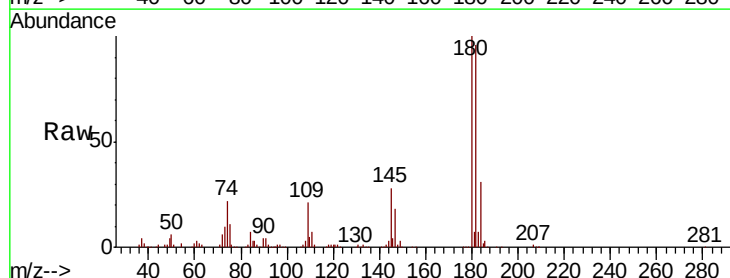
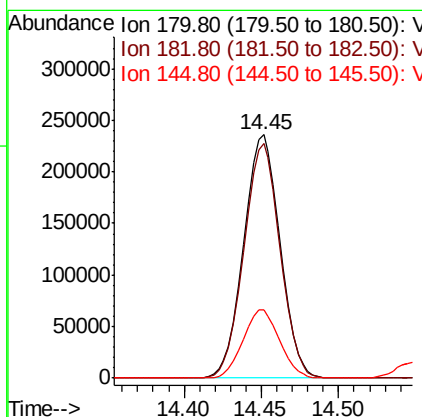
Manual Integrations
 APPROVED

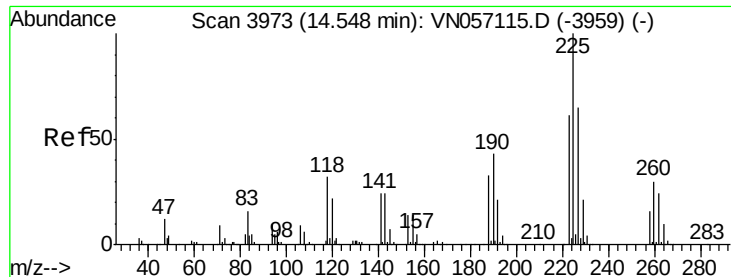
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#93
 1,2,4-Trichlorobenzene
 Concen: 45.552 ug/l
 RT: 14.45 min Scan# 3943
 Delta R.T. 0.00 min
 Lab File: VN057160.D
 Acq: 9 Aug 2019 20:48

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.9	47.5	142.6
145	28.2	14.1	42.2





#94

Hexachlorobutadiene

Concen: 51.677 ug/l

RT: 14.55 min Scan# 3974

Delta R.T. 0.00 min

Lab File: VN057160.D

Acq: 9 Aug 2019 20:48

Instrument :

MSVOA_N

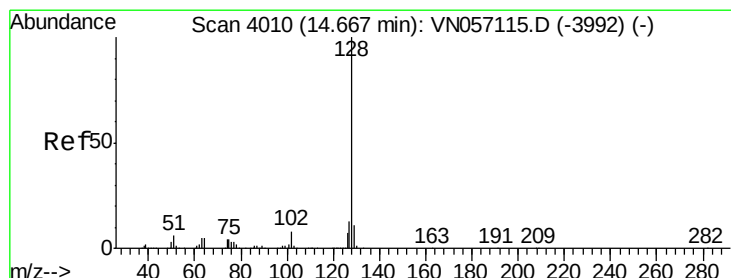
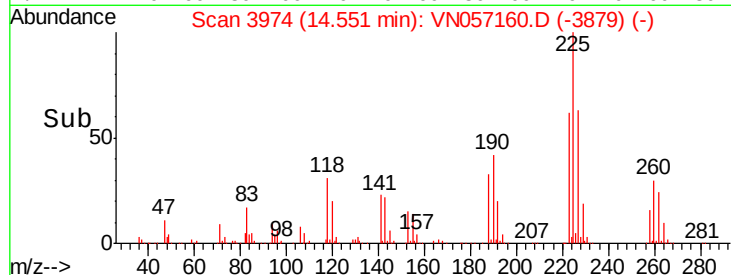
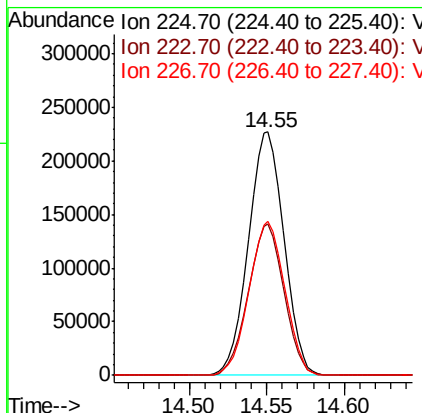
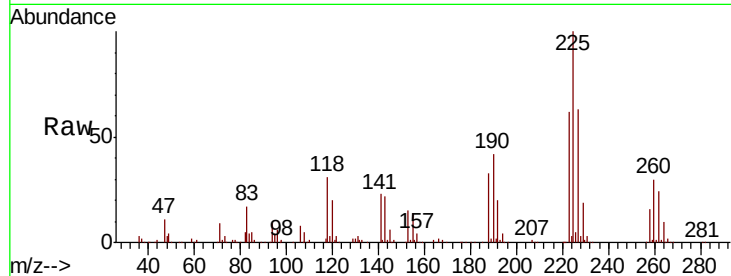
ClientSampleId :

MW-4R_080819MSD

Tot Ion:	225	Resp:	364936
Ion Ratio		Lower	Upper
225	100		
223	62.0	30.9	92.8
227	63.4	32.4	97.0

Manual Integrations
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#95

Naphthalene

Concen: 43.866 ug/l

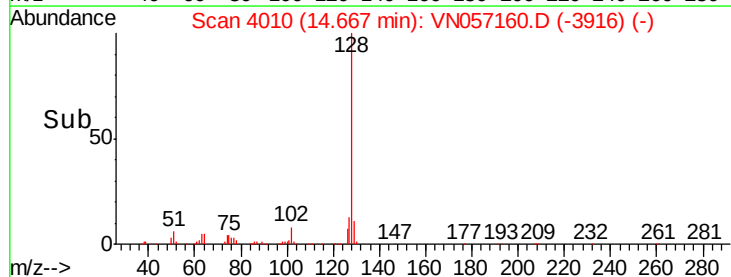
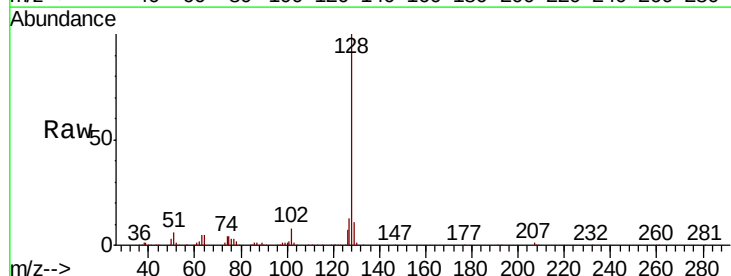
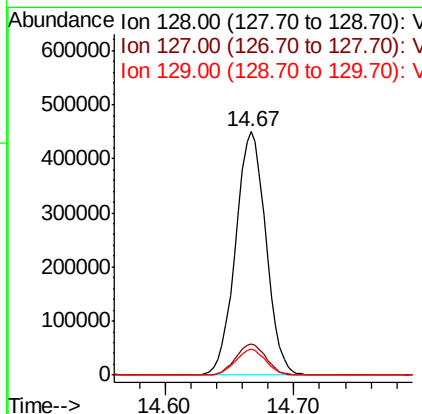
RT: 14.67 min Scan# 4010

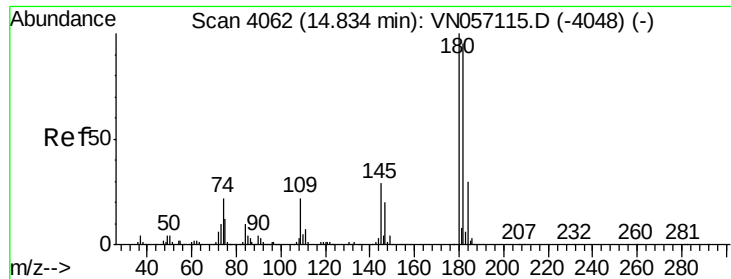
Delta R.T. 0.00 min

Lab File: VN057160.D

Acq: 9 Aug 2019 20:48

Tgt Ion:	128	Resp:	733637
Ion Ratio		Lower	Upper
128	100		
127	12.8	10.3	15.5
129	10.8	8.8	13.2





#96
 1,2,3-Trichlorobenzene
 Concen: 42.900 ug/l
 RT: 14.83 min Scan# 4062
 Delta R.T. -0.00 min
 Lab File: VN057160.D
 Acq: 9 Aug 2019 20:48

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-4R_080819MSD

Tot Ion:	180	Resp:	373555
Ion Ratio	Lower	Upper	
180	100		
182	96.9	48.3	144.8
145	29.5	14.9	44.5

Manual Integrations
 APPROVED

MMDadoda
 8/12/2019 3:12:13 PM

