

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN111518\
 Data File : VN052334.D
 Acq On : 15 Nov 2018 11:16
 Operator : MD\SY
 Sample : VN1115WBSD01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1115WBSD01

Manual Integrations
 APPROVED

MMDadoda
 11/16/2018 4:06:57 PM

Quant Time: Nov 16 03:21:31 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N111418W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 15 03:02:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	243184	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	422666	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	376786	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	161832	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	185969	54.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.30%	
35) Dibromofluoromethane	7.59	113	140061	51.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.76%	
50) Toluene-d8	10.09	98	531986	49.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.22%	
62) 4-Bromofluorobenzene	12.40	95	173429	49.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.32%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	50936	19.77	ug/l	98
3) Chloromethane	2.06	50	70384	19.65	ug/l	96
4) Vinyl Chloride	2.19	62	59623	19.26	ug/l	99
5) Bromomethane	2.58	94	35426	18.36	ug/l	94
6) Chloroethane	2.71	64	33057	18.89	ug/l	98
7) Trichlorofluoromethane	3.03	101	81780	19.09	ug/l	99
8) Diethyl Ether	3.41	74	30907	18.93	ug/l	93
9) 1,1,2-Trichlorotrifluoroet	3.77	101	50076	18.51	ug/l	99
10) Methyl Iodide	3.96	142	67407	18.56	ug/l	99
11) Tert butyl alcohol	4.79	59	15180	83.69	ug/l #	87
12) 1,1-Dichloroethene	3.74	96	46458	18.56	ug/l	88
13) Acrolein	3.61	56	22811	97.89	ug/l	99
14) Allyl chloride	4.33	41	89909	17.49	ug/l	95
15) Acrylonitrile	4.99	53	96363	93.04	ug/l	98
16) Acetone	3.82	43	83875	88.69	ug/l	95
17) Carbon Disulfide	4.06	76	130514	18.18	ug/l	99
18) Methyl Acetate	4.33	43	48443	18.55	ug/l	96
19) Methyl tert-butyl Ether	5.05	73	139913	19.45	ug/l	98
20) Methylene Chloride	4.56	84	60384	20.58	ug/l	98
21) trans-1,2-Dichloroethene	5.05	96	50753	18.83	ug/l	99
22) Diisopropyl ether	5.95	45	209900	20.01	ug/l	99
23) Vinyl Acetate	5.90	43	700717	98.49	ug/l	100
24) 1,1-Dichloroethane	5.85	63	108289	19.26	ug/l	100
25) 2-Butanone	6.83	43	122329	91.90	ug/l	94
26) 2,2-Dichloropropane	6.83	77	75379	18.23	ug/l	98
27) cis-1,2-Dichloroethene	6.83	96	60517	19.29	ug/l	99
28) Bromochloromethane	7.19	49	60614	20.96	ug/l	98
29) Tetrahydrofuran	7.21	42	76041	86.96	ug/l	99
30) Chloroform	7.37	83	112692	21.03	ug/l	98
31) Cyclohexane	7.66	56	100983	18.68	ug/l	95
32) 1,1,1-Trichloroethane	7.57	97	85545	18.74	ug/l	100
36) 1,1-Dichloropropene	7.79	75	77883	18.38	ug/l	100
37) Ethyl Acetate	6.93	43	55105	17.92	ug/l #	98
38) Carbon Tetrachloride	7.77	117	73428	18.87	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN111518\
 Data File : VN052334.D
 Acq On : 15 Nov 2018 11:16
 Operator : MD\SY
 Sample : VN1115WBSD01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleID :
 VN1115WBSD01

Manual Integrations
 APPROVED

MMDadoda
 11/16/2018 4:06:57 PM

Quant Time: Nov 16 03:21:31 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N111418W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 15 03:02:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	87531	18.10	ug/l	97
40) Benzene	8.04	78	230307	19.03	ug/l	98
41) Methacrylonitrile	7.17	41	28056	18.91	ug/l #	100
42) 1,2-Dichloroethane	8.12	62	83636	19.38	ug/l	100
43) Isopropyl Acetate	8.17	43	100918	17.01	ug/l	100
44) Trichloroethene	8.83	130	56018	18.79	ug/l	99
45) 1,2-Dichloropropane	9.12	63	65551	19.09	ug/l	98
46) Dibromomethane	9.21	93	37994	19.11	ug/l	98
47) Bromodichloromethane	9.40	83	80623	19.76	ug/l	96
48) Methyl methacrylate	9.20	41	51111	16.98	ug/l	100
49) 1,4-Dioxane	9.20	88	9679	418.83	ug/l	97
51) 4-Methyl-2-Pentanone	9.98	43	264132	88.45	ug/l	99
52) Toluene	10.15	92	139960	19.33	ug/l	98
53) t-1,3-Dichloropropene	10.38	75	75470	18.34	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	91828	19.58	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	48586	18.51	ug/l	98
56) Ethyl methacrylate	10.43	69	63781	18.48	ug/l	99
57) 1,3-Dichloropropane	10.71	76	87658	18.86	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.69	63	195655	99.57	ug/l	99
59) 2-Hexanone	10.75	43	180395	87.82	ug/l	99
60) Dibromochloromethane	10.90	129	53635	18.89	ug/l	98
61) 1,2-Dibromoethane	11.00	107	48158	18.42	ug/l	99
64) Tetrachloroethene	10.63	164	49349	18.42	ug/l	99
65) Chlorobenzene	11.43	112	150202	18.86	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	53332	19.64	ug/l	99
67) Ethyl Benzene	11.51	91	262939	19.02	ug/l	99
68) m/p-Xylenes	11.62	106	193691	38.35	ug/l	98
69) o-Xylene	11.95	106	94589	19.54	ug/l	99
70) Styrene	11.96	104	150818	19.46	ug/l	99
71) Bromoform	12.12	173	28548	17.80	ug/l #	99
73) Isopropylbenzene	12.25	105	249792	19.20	ug/l	100
74) N-amyl acetate	12.07	43	85055	18.35	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.50	83	58136	18.48	ug/l	97
76) 1,2,3-Trichloropropane	12.55	75	47862m	17.43	ug/l	
77) Bromobenzene	12.52	156	58105	19.19	ug/l	98
78) n-propylbenzene	12.59	91	288445	18.96	ug/l	99
79) 2-Chlorotoluene	12.67	91	171581	19.30	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	207577	20.06	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	13669	16.14	ug/l	94
82) 4-Chlorotoluene	12.77	91	171949	18.88	ug/l	98
83) tert-Butylbenzene	12.99	119	174415	19.09	ug/l	98
84) 1,2,4-Trimethylbenzene	13.04	105	206185	19.85	ug/l	99
85) sec-Butylbenzene	13.17	105	238454	19.16	ug/l	100
86) p-Isopropyltoluene	13.29	119	198234	18.81	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	102500	19.06	ug/l	98
88) 1,4-Dichlorobenzene	13.36	146	99509	18.62	ug/l	99
89) n-Butylbenzene	13.61	91	166849	18.43	ug/l	98
90) Hexachloroethane	13.87	117	33950	18.18	ug/l	97
91) 1,2-Dichlorobenzene	13.65	146	99879	19.17	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	8117	17.50	ug/l	94

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN111518\
Data File : VN052334.D
Acq On : 15 Nov 2018 11:16
Operator : MD\SY
Sample : VN1115WBSD01
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 28

Instrument :
MSVOA_N
ClientSampleId :
VN1115WBSD01

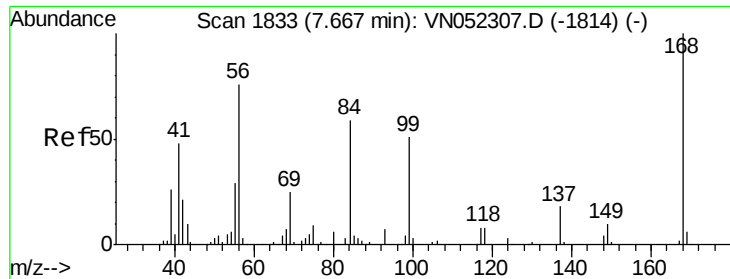
Manual Integrations
APPROVED

MMDadoda
11/16/2018 4:06:57 PM

Quant Time: Nov 16 03:21:31 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N111418W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 15 03:02:37 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	37623	17.08	ug/l	100
94) Hexachlorobutadiene	15.01	225	22708	19.05	ug/l	97
95) Naphthalene	15.13	128	82646	16.28	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	35492	17.93	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN052334.D

Acq: 15 Nov 2018 11:16

Instrument :

MSVOA_N

ClientSampleId :

VN1115WBSD01

Tgt Ion: 168 Resp: 243184

Ion Ratio Lower Upper

168 100

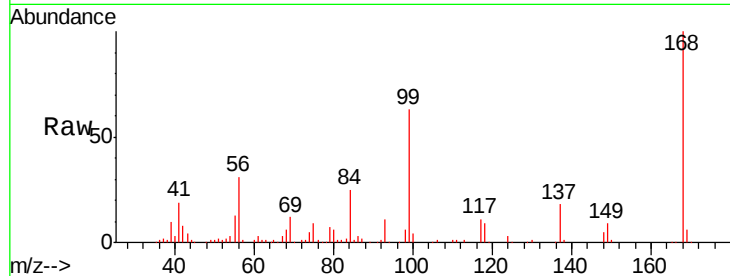
99 62.7 47.9 71.9

Manual Integrations

APPROVED

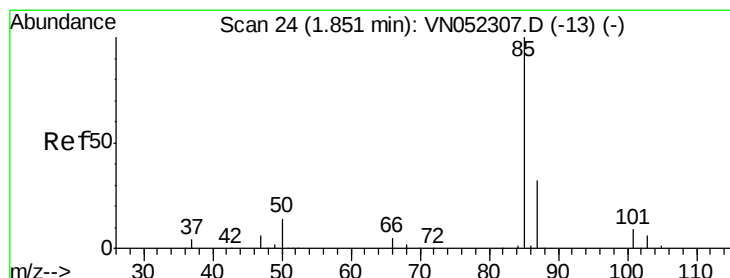
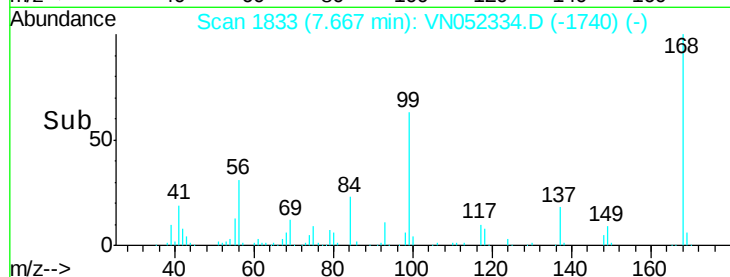
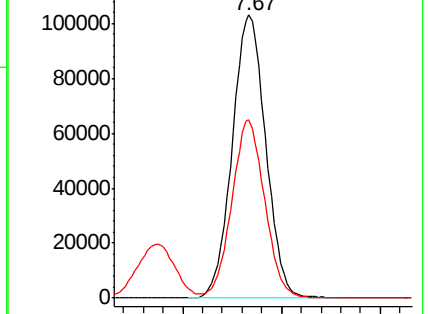
MMDadoda

11/16/2018 4:06:57 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#2

Dichlorodifluoromethane

Concen: 19.77 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN052334.D

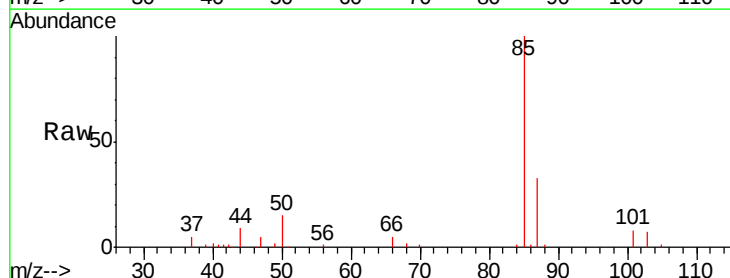
Acq: 15 Nov 2018 11:16

Tgt Ion: 85 Resp: 50936

Ion Ratio Lower Upper

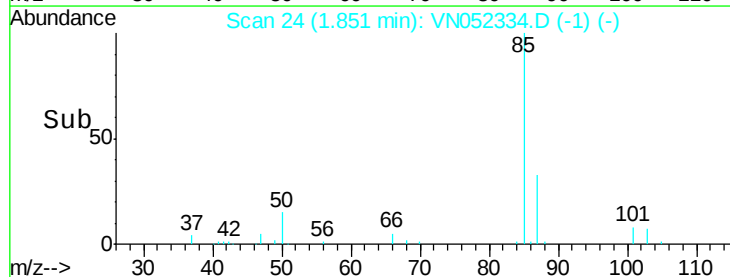
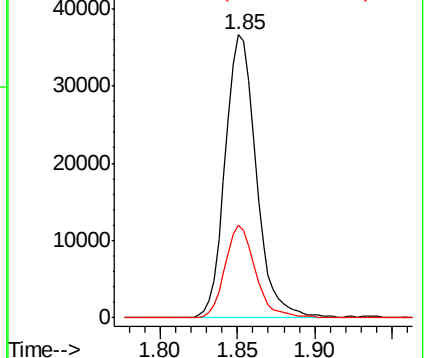
85 100

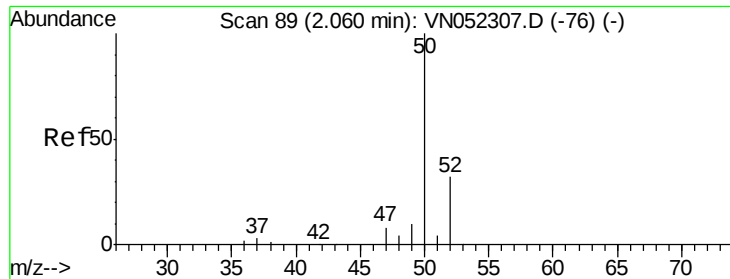
87 32.6 15.9 47.6



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN





#3

Chloromethane

Concen: 19.65 ug/l

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN052334.D

Acq: 15 Nov 2018 11:16

Instrument :

MSVOA_N

ClientSampleId :

VN1115WBSD01

Tgt Ion: 50 Resp: 70384

Ion Ratio Lower Upper

50 100

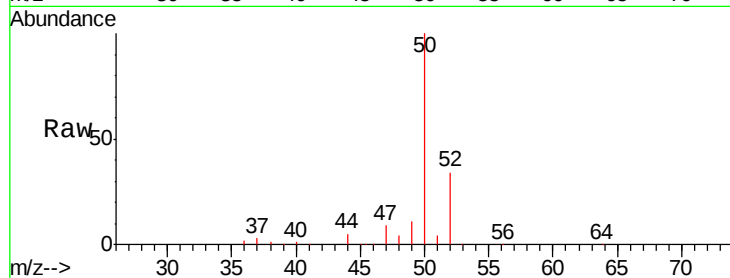
52 34.3 25.5 38.3

Manual Integrations

APPROVED

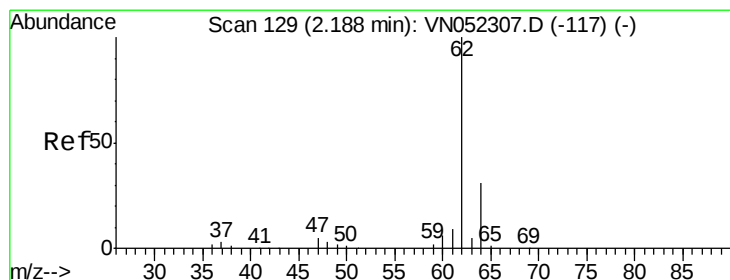
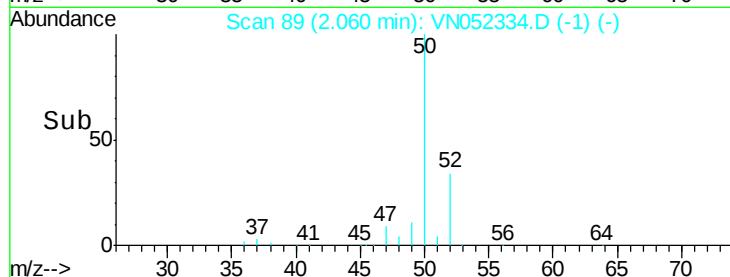
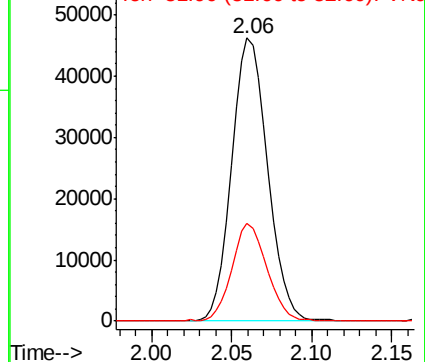
MMDadoda

11/16/2018 4:06:57 PM



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0



#4

Vinyl Chloride

Concen: 19.26 ug/l

RT: 2.19 min Scan# 130

Delta R.T. 0.00 min

Lab File: VN052334.D

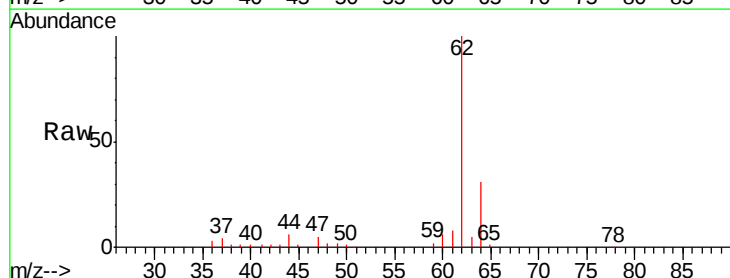
Acq: 15 Nov 2018 11:16

Tgt Ion: 62 Resp: 59623

Ion Ratio Lower Upper

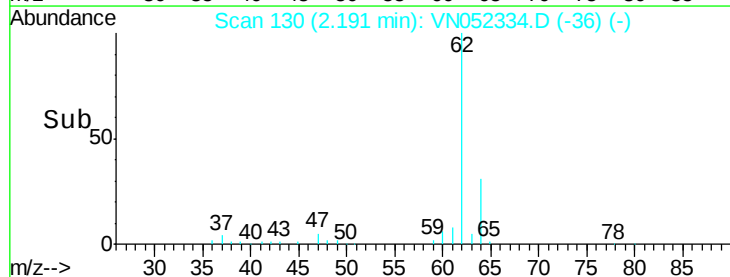
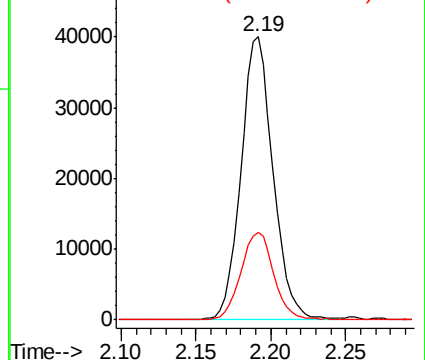
62 100

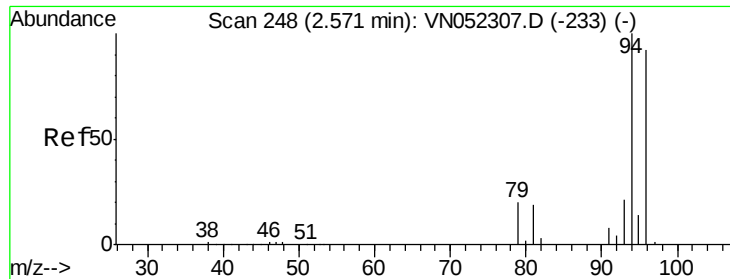
64 30.8 25.2 37.8



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0





#5

Bromomethane

Concen: 18.36 ug/l

RT: 2.58 min Scan# 250

Delta R.T. 0.01 min

Lab File: VN052334.D

Acq: 15 Nov 2018 11:16

Instrument :

MSVOA_N

ClientSampleId :

VN1115WBSD01

Tgt Ion: 94 Resp: 35426

Ion Ratio Lower Upper

94 100

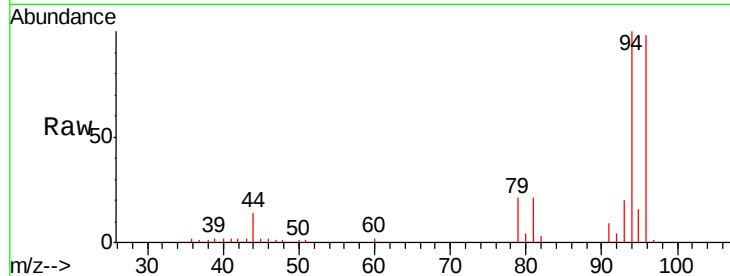
96 97.8 73.6 110.4

Manual Integrations

APPROVED

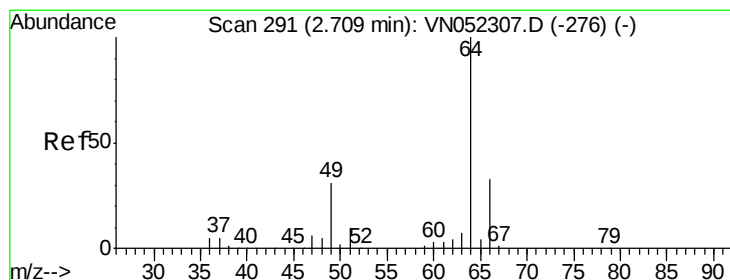
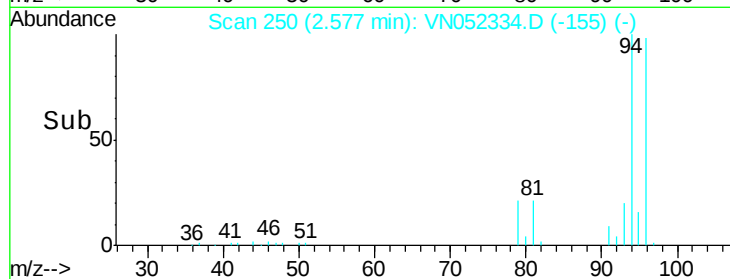
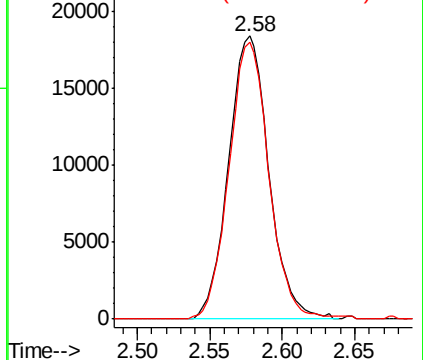
MMDadoda

11/16/2018 4:06:57 PM



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 18.89 ug/l

RT: 2.71 min Scan# 292

Delta R.T. 0.00 min

Lab File: VN052334.D

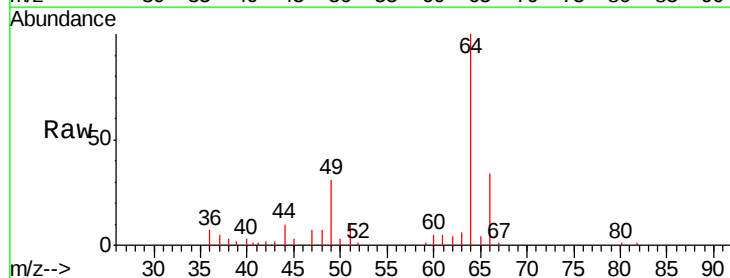
Acq: 15 Nov 2018 11:16

Tgt Ion: 64 Resp: 33057

Ion Ratio Lower Upper

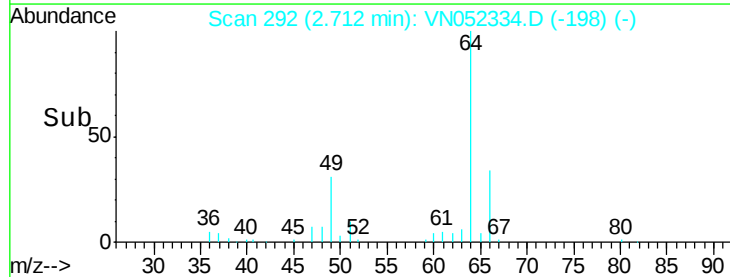
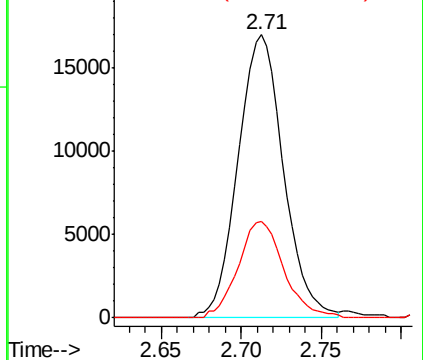
64 100

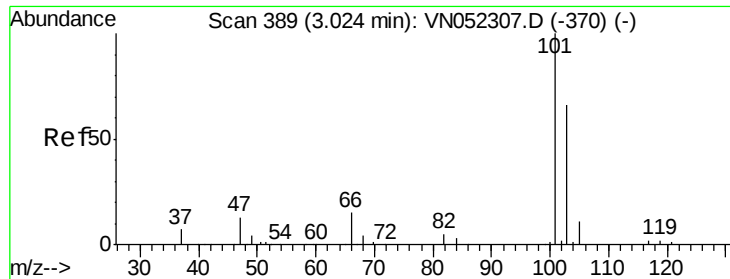
66 34.0 26.2 39.2



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#7

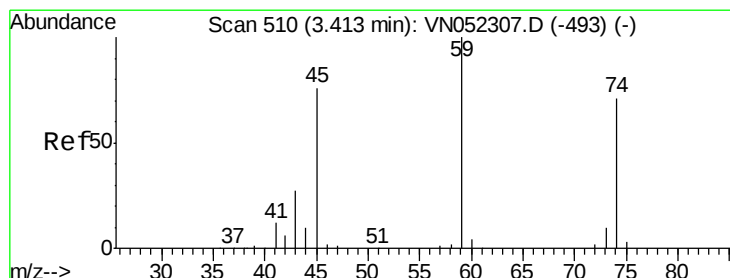
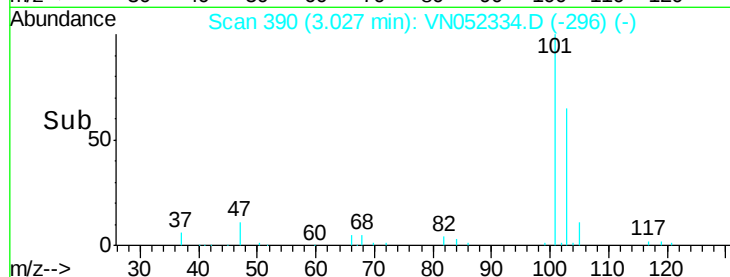
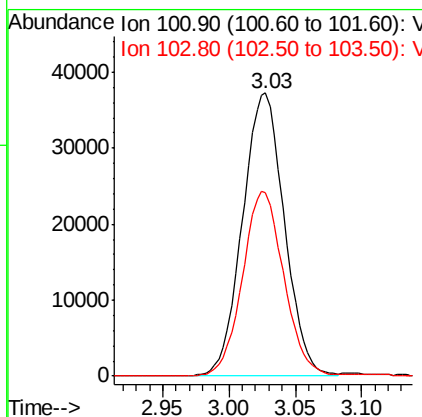
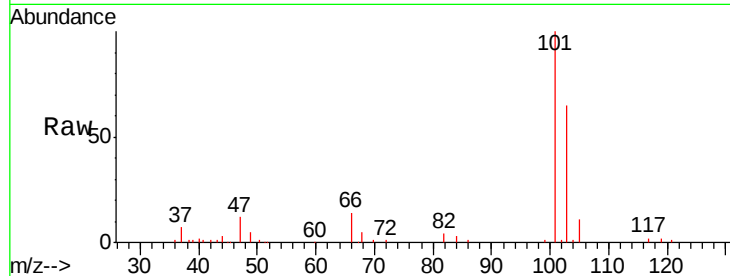
Trichlorofluoromethane
Concen: 19.09 ug/l
RT: 3.03 min Scan# 390
Delta R.T. 0.00 min
Lab File: VN052334.D
Acq: 15 Nov 2018 11:16

Instrument :
MSVOA_N
ClientSampleId :
VN1115WBSD01

Tgt Ion:101 Resp: 81780
Ion Ratio Lower Upper
101 100
103 64.9 52.8 79.2

Manual Integrations
APPROVED

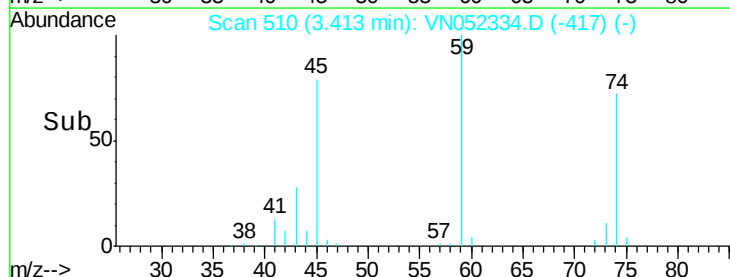
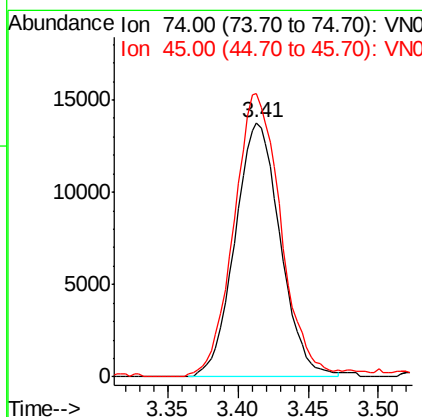
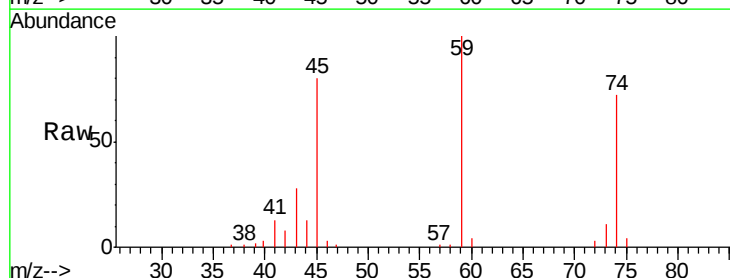
MMDadoda
11/16/2018 4:06:57 PM

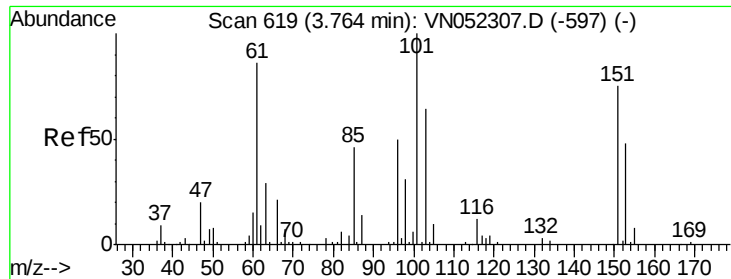


#8

Diethyl Ether
Concen: 18.93 ug/l
RT: 3.41 min Scan# 510
Delta R.T. 0.00 min
Lab File: VN052334.D
Acq: 15 Nov 2018 11:16

Tgt Ion: 74 Resp: 30907
Ion Ratio Lower Upper
74 100
45 115.5 54.3 162.9





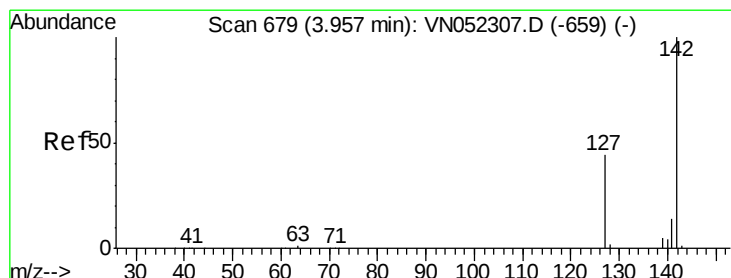
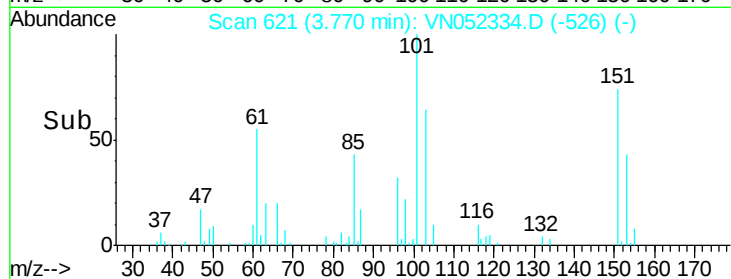
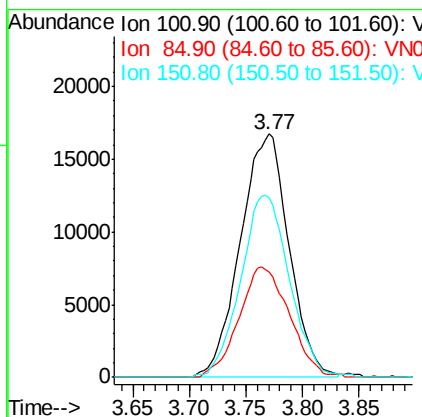
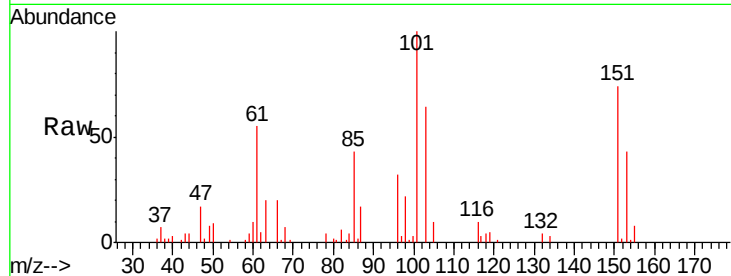
#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 18.51 ug/l
 RT: 3.77 min Scan# 621
 Delta R.T. 0.01 min
 Lab File: VN052334.D
 Acq: 15 Nov 2018 11:16

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1115WBSD01

Tgt Ion	Ratio	Lower	Upper
101	100		
85	46.8	37.4	56.0
151	75.2	58.6	88.0

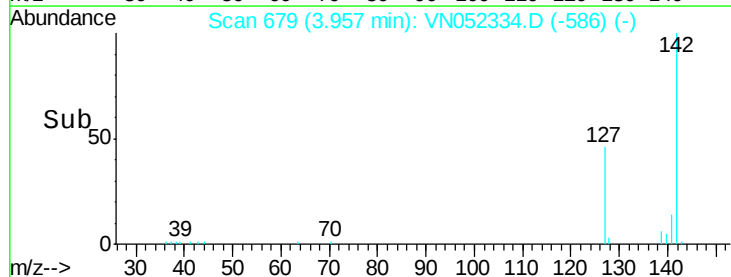
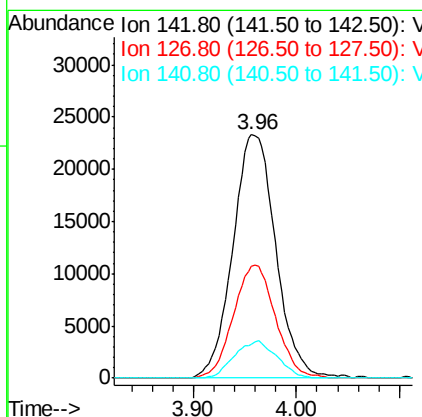
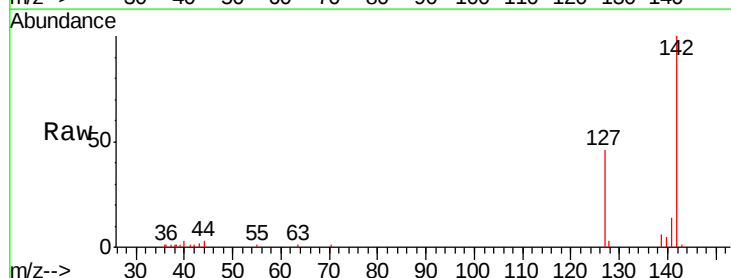
Manual Integrations
 APPROVED

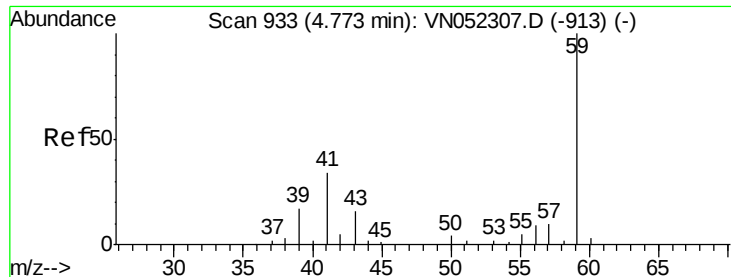
MMDadoda
 11/16/2018 4:06:57 PM



#10
 Methyl Iodide
 Concen: 18.56 ug/l
 RT: 3.96 min Scan# 679
 Delta R.T. 0.00 min
 Lab File: VN052334.D
 Acq: 15 Nov 2018 11:16

Tgt Ion	Ratio	Lower	Upper
142	100		
127	45.5	36.3	54.5
141	15.1	11.4	17.2





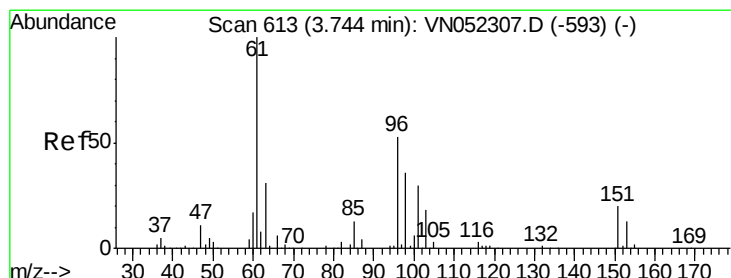
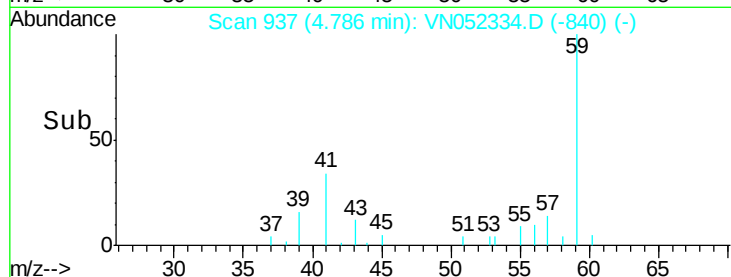
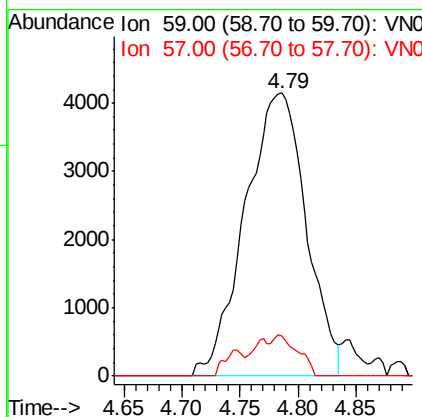
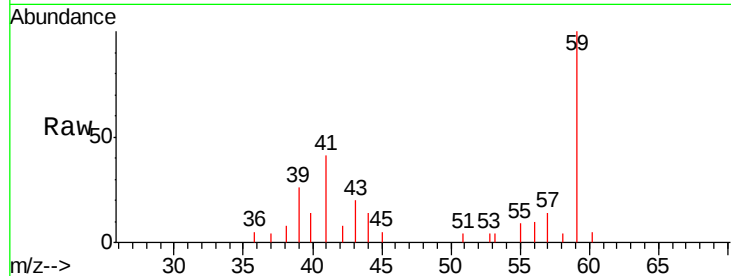
#11
Tert butyl alcohol
Concen: 83.69 ug/l
RT: 4.79 min Scan# 937
Delta R.T. 0.01 min
Lab File: VN052334.D
Acq: 15 Nov 2018 11:16

Instrument :
MSVOA_N
ClientSampleId :
VN1115WBSD01

Tgt Ion: 59 Resp: 15180
Ion Ratio Lower Upper
59 100
57 5.8 8.5 12.7#

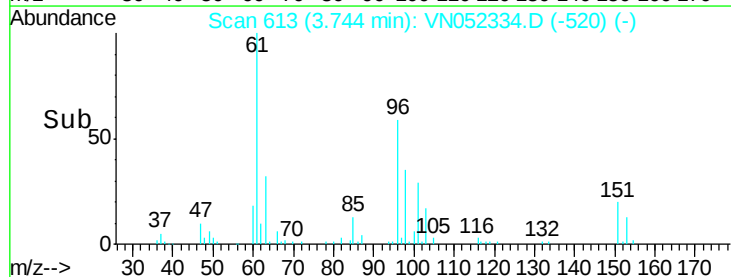
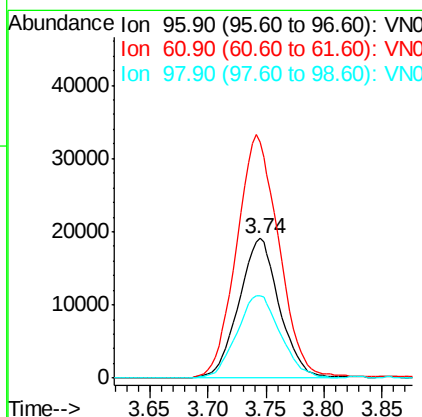
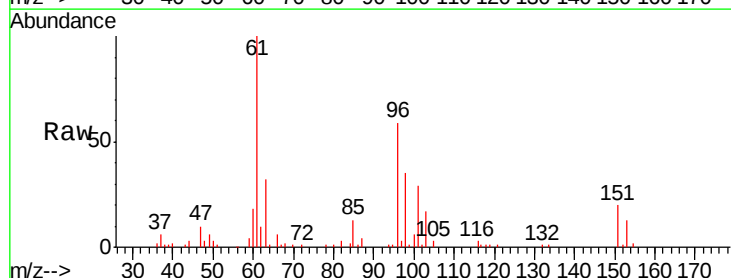
Manual Integrations
APPROVED

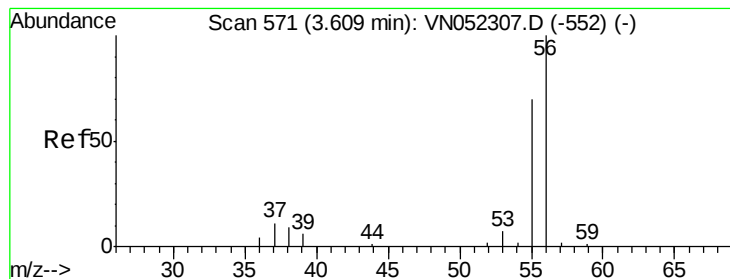
MMDadoda
11/16/2018 4:06:57 PM



#12
1,1-Dichloroethene
Concen: 18.56 ug/l
RT: 3.74 min Scan# 613
Delta R.T. 0.00 min
Lab File: VN052334.D
Acq: 15 Nov 2018 11:16

Tgt Ion: 96 Resp: 46458
Ion Ratio Lower Upper
96 100
61 169.4 149.6 224.4
98 58.7 54.2 81.2





#13

Acrolein

Concen: 97.89 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN052334.D

Acq: 15 Nov 2018 11:16

Instrument :

MSVOA_N

ClientSampled :

VN1115WBSD01

Tgt Ion: 56 Resp: 22811

Ion Ratio Lower Upper

56 100

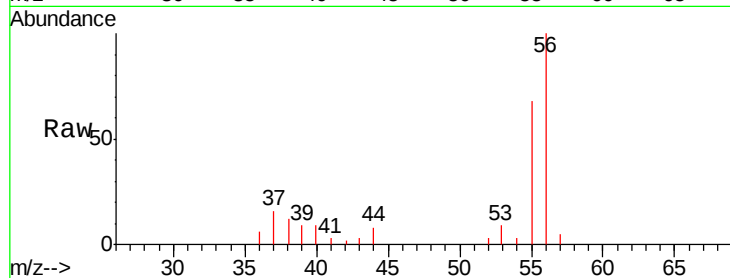
55 71.1 57.6 86.4

Manual Integrations

APPROVED

MMDadoda

11/16/2018 4:06:57 PM



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

3.61

8000

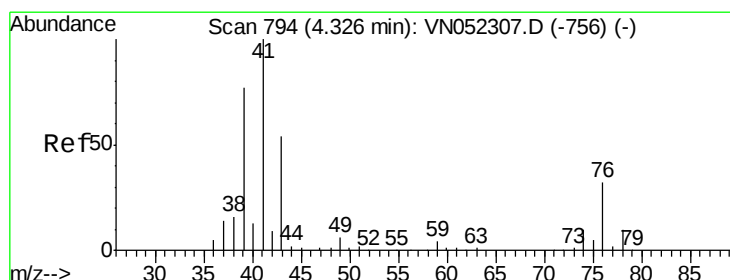
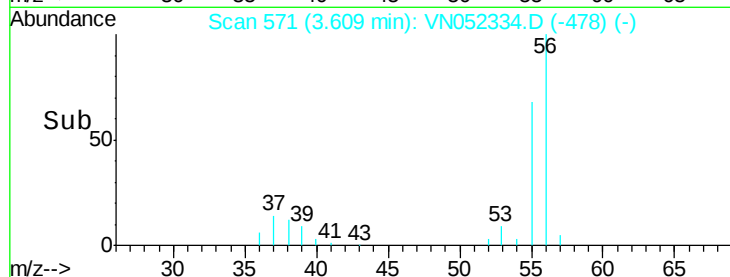
6000

4000

2000

0

Time-->



#14

Allyl chloride

Concen: 17.49 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.00 min

Lab File: VN052334.D

Acq: 15 Nov 2018 11:16

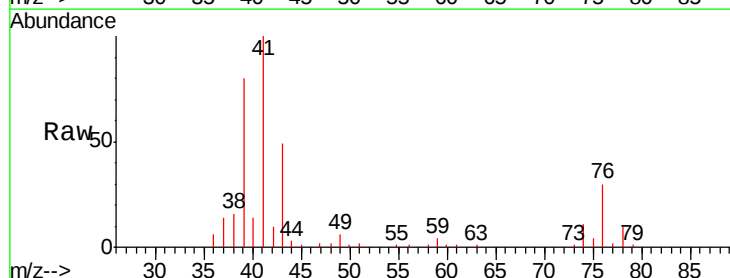
Tgt Ion: 41 Resp: 89909

Ion Ratio Lower Upper

41 100

39 78.0 59.1 88.7

76 32.2 24.1 36.1



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

4.33

40000

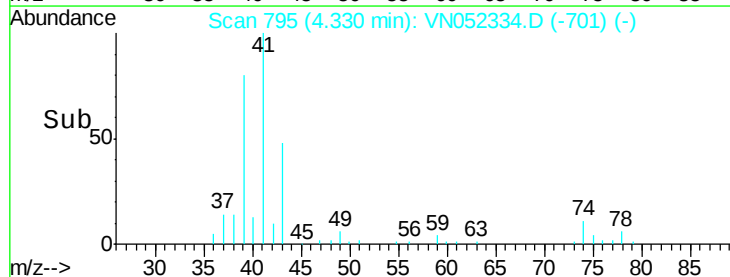
30000

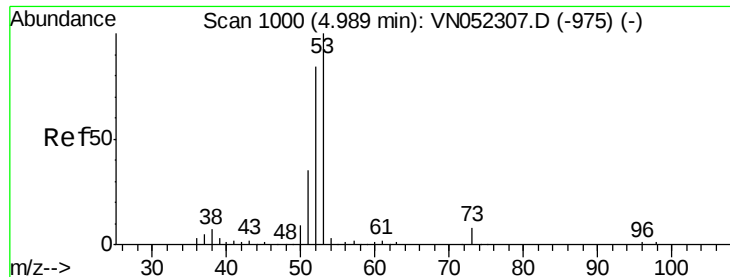
20000

10000

0

Time-->





#15

Acrylonitrile

Concen: 93.04 ug/l

RT: 4.99 min Scan# 1000

Delta R.T. 0.00 min

Lab File: VN052334.D

Acq: 15 Nov 2018 11:16

Instrument :

MSVOA_N

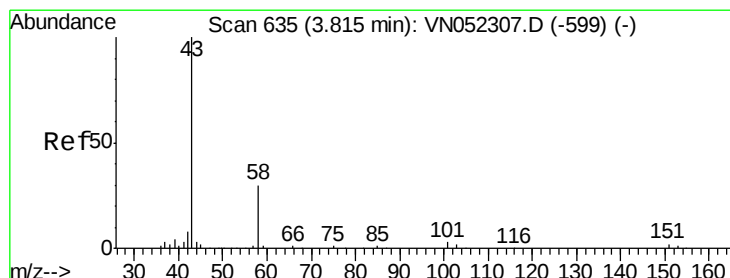
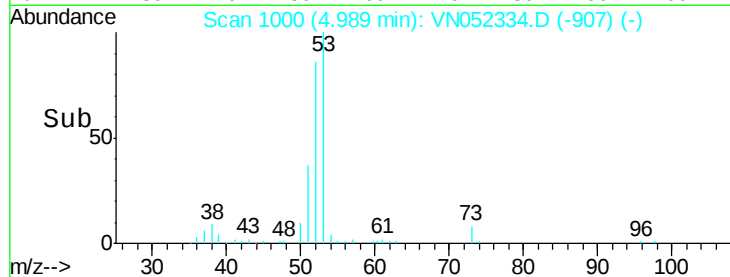
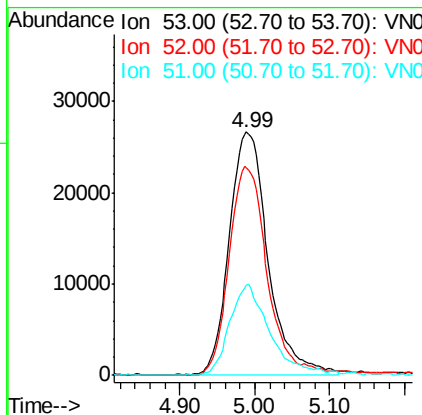
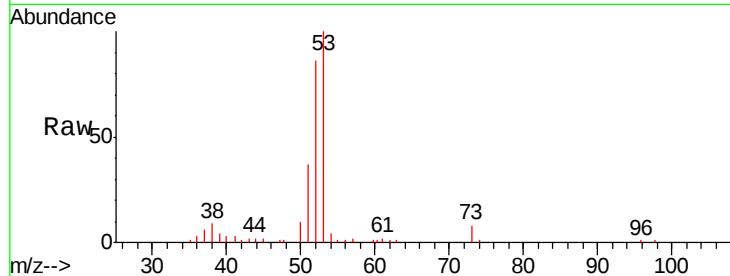
ClientSampleId :

VN1115WBSD01

Tgt Ion:	53	Resp:	96363
Ion	Ratio	Lower	Upper
53	100		
52	81.7	67.5	101.3
51	37.5	29.9	44.9

Manual Integrations
APPROVED

MMDadoda
11/16/2018 4:06:57 PM



#16

Acetone

Concen: 88.69 ug/l

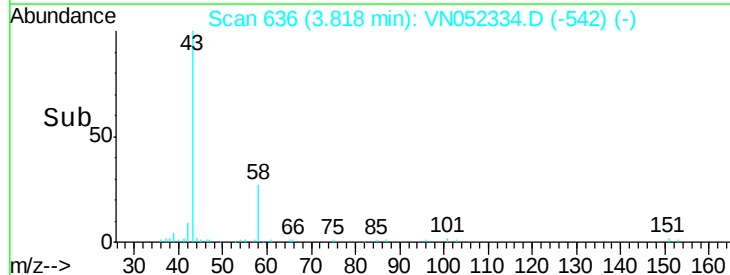
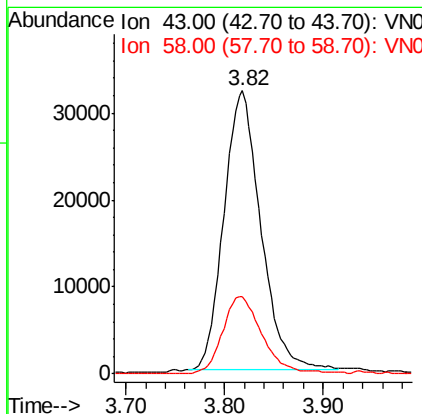
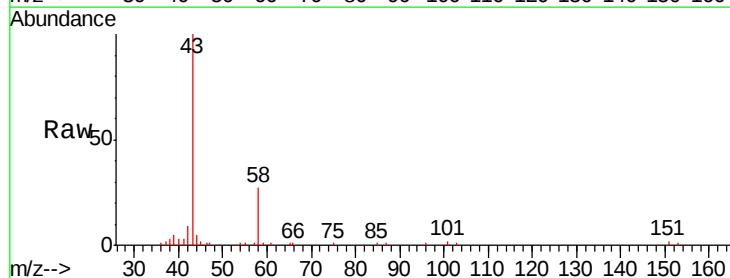
RT: 3.82 min Scan# 636

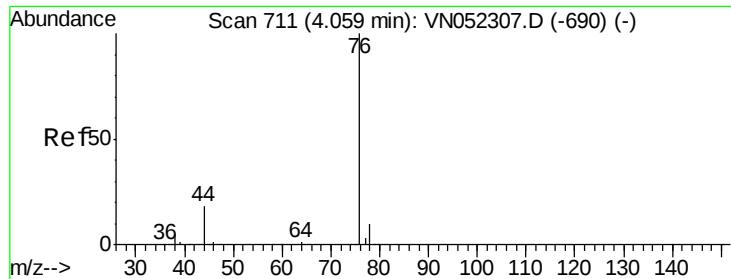
Delta R.T. 0.00 min

Lab File: VN052334.D

Acq: 15 Nov 2018 11:16

Tgt Ion:	43	Resp:	83875
Ion	Ratio	Lower	Upper
43	100		
58	27.6	24.2	36.4





#17

Carbon Disulfide

Concen: 18.18 ug/l

RT: 4.06 min Scan# 711

Delta R.T. 0.00 min

Lab File: VN052334.D

Acq: 15 Nov 2018 11:16

Instrument :

MSVOA_N

ClientSampleId :

VN1115WBSD01

Tgt Ion: 76 Resp: 130514

Ion Ratio Lower Upper

76 100

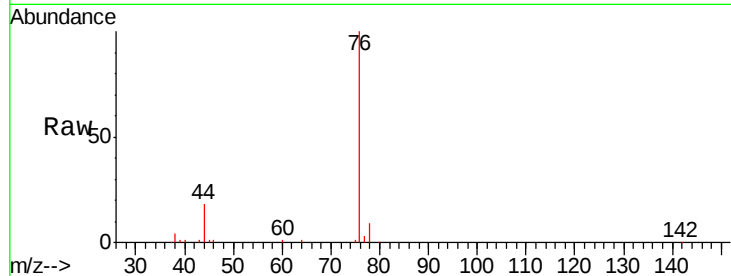
78 9.1 7.7 11.5

Manual Integrations

APPROVED

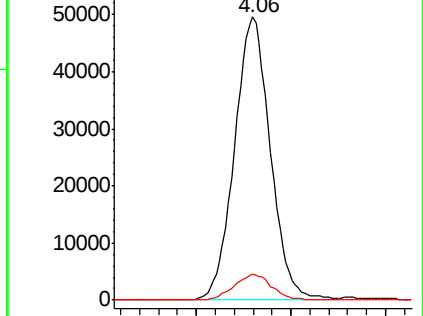
MMDadoda

11/16/2018 4:06:57 PM

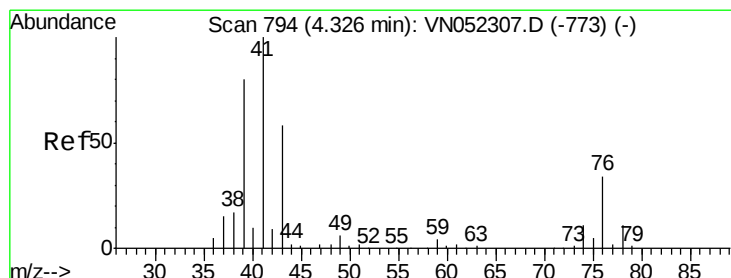
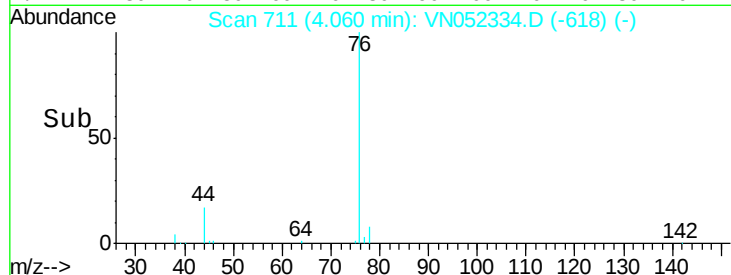


Abundance Ion 75.90 (75.60 to 76.60): VN052334.D (-618) (-)

Ion 77.90 (77.60 to 78.60): VN052334.D (-618) (-)



Time-->



#18

Methyl Acetate

Concen: 18.55 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.00 min

Lab File: VN052334.D

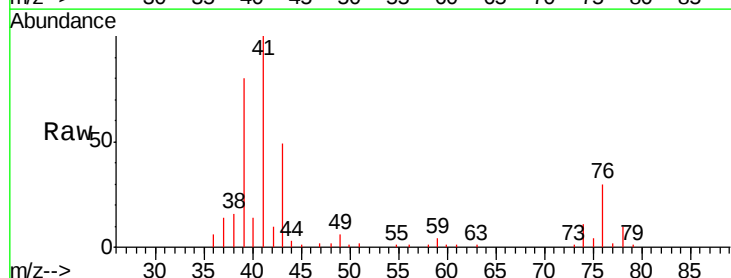
Acq: 15 Nov 2018 11:16

Tgt Ion: 43 Resp: 48443

Ion Ratio Lower Upper

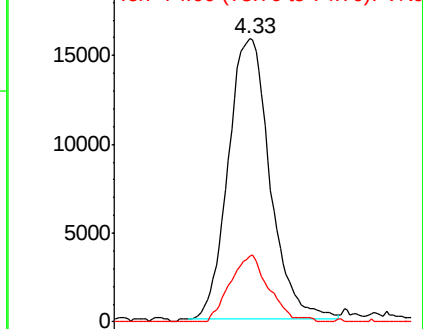
43 100

74 22.0 15.9 23.9

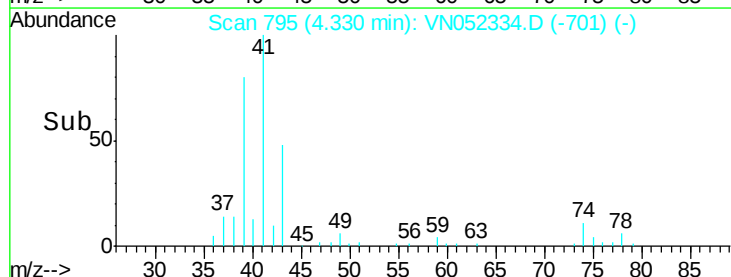


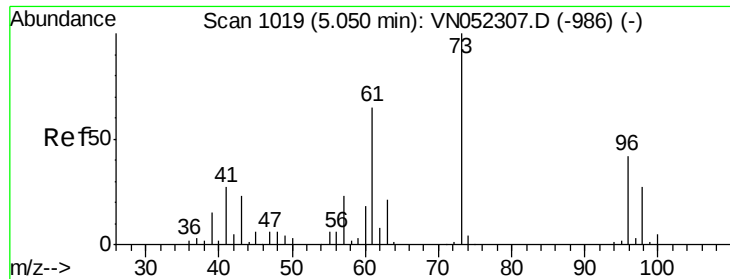
Abundance Ion 43.00 (42.70 to 43.70): VN052334.D (-701) (-)

Ion 74.00 (73.70 to 74.70): VN052334.D (-701) (-)



Time-->





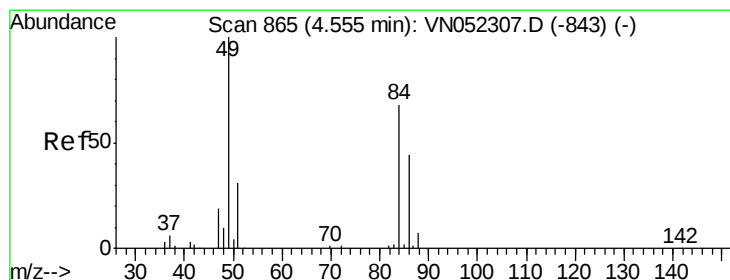
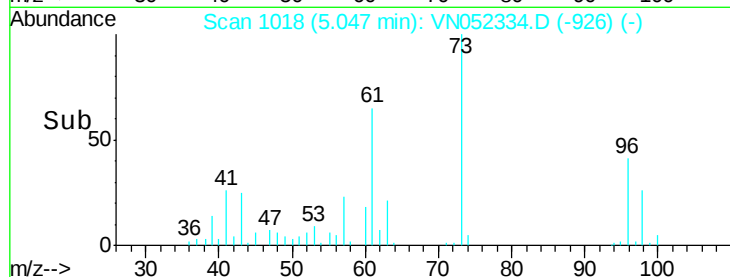
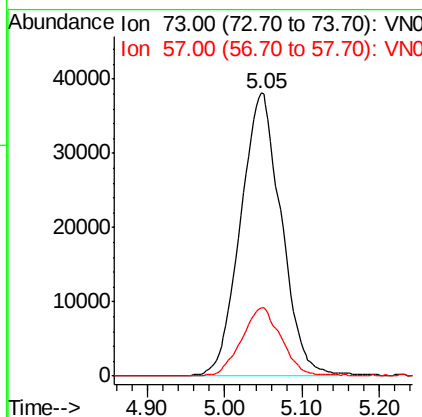
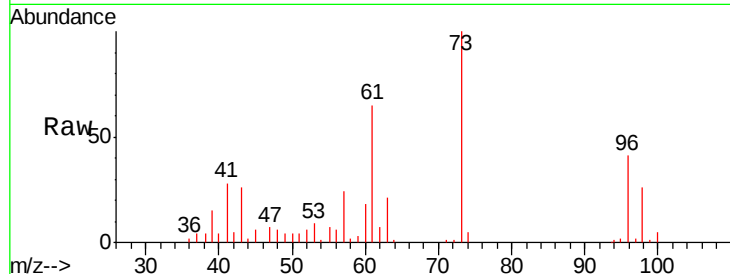
#19
Methyl tert-butyl Ether
Concen: 19.45 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. -0.00 min
Lab File: VN052334.D
Acq: 15 Nov 2018 11:16

Instrument :
MSVOA_N
ClientSampleId :
VN1115WBSD01

Tgt Ion: 73 Resp: 139913
Ion Ratio Lower Upper
73 100
57 24.2 18.7 28.1

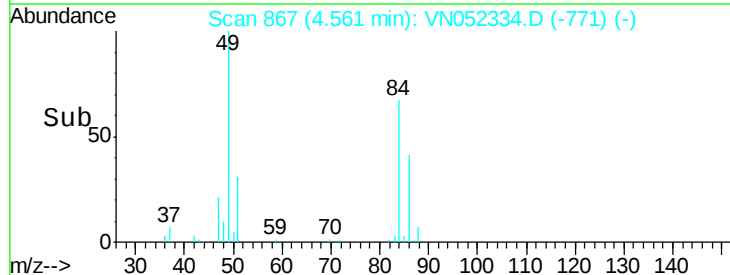
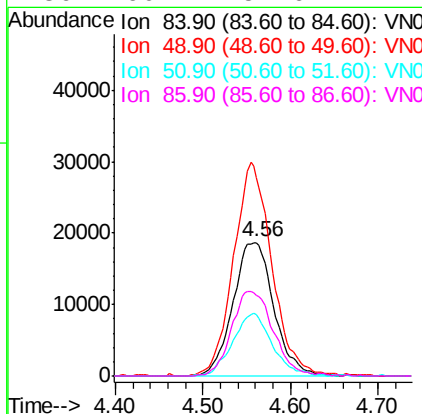
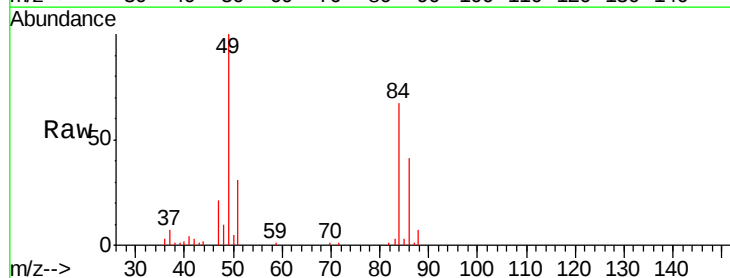
Manual Integrations
APPROVED

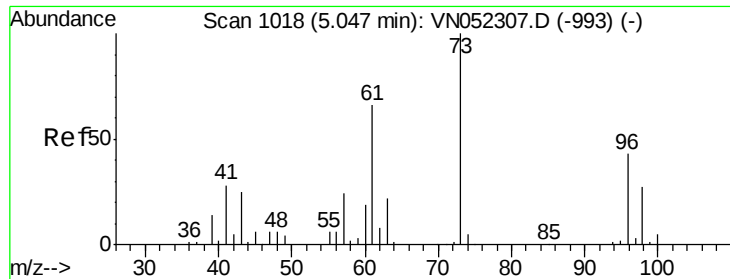
MMDadoda
11/16/2018 4:06:57 PM



#20
Methylene Chloride
Concen: 20.58 ug/l
RT: 4.56 min Scan# 867
Delta R.T. 0.01 min
Lab File: VN052334.D
Acq: 15 Nov 2018 11:16

Tgt Ion: 84 Resp: 60384
Ion Ratio Lower Upper
84 100
49 148.7 118.2 177.2
51 46.4 36.1 54.1
86 60.4 51.6 77.4





#21

trans-1,2-Dichloroethene

Concen: 18.83 ug/l

RT: 5.05 min Scan# 1018

Delta R.T. 0.00 min

Lab File: VN052334.D

Acq: 15 Nov 2018 11:16

Instrument :

MSVOA_N

ClientSampleId :

VN1115WBSD01

Tgt Ion: 96 Resp: 50753

Ion Ratio Lower Upper

96 100

61 155.7 123.6 185.4

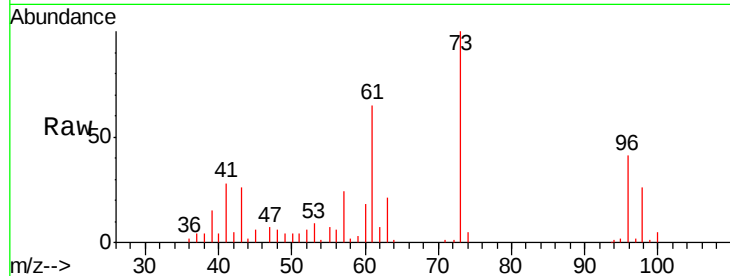
98 64.0 50.7 76.1

Manual Integrations

APPROVED

MMDadoda

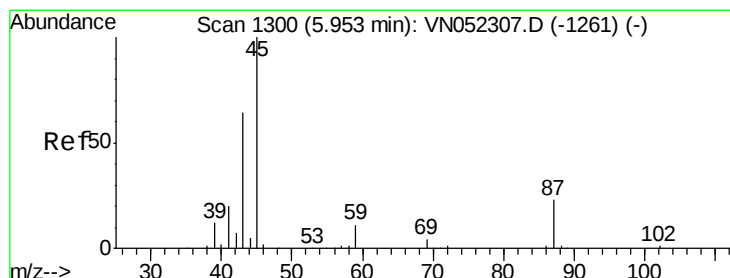
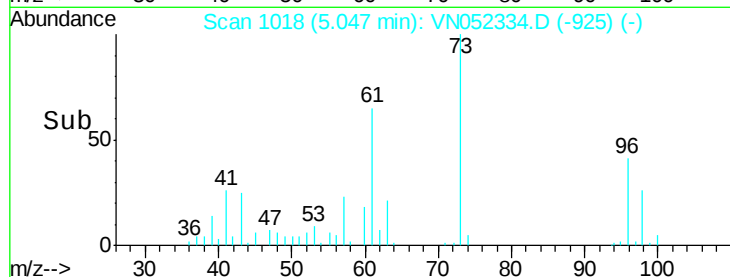
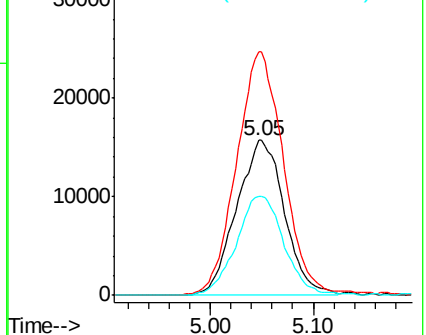
11/16/2018 4:06:57 PM



Abundance Ion 95.90 (95.60 to 96.60): VN052334.D (-925) (-)

Ion 60.90 (60.60 to 61.60): VN052334.D (-925) (-)

Ion 97.90 (97.60 to 98.60): VN052334.D (-925) (-)



#22

Diisopropyl ether

Concen: 20.01 ug/l

RT: 5.95 min Scan# 1300

Delta R.T. 0.00 min

Lab File: VN052334.D

Acq: 15 Nov 2018 11:16

Tgt Ion: 45 Resp: 209900

Ion Ratio Lower Upper

45 100

43 64.9 51.4 77.2

87 21.9 18.8 28.2

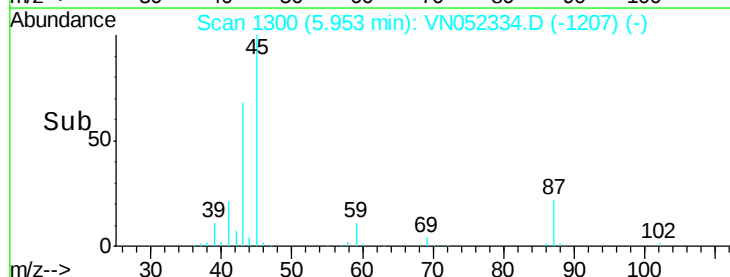
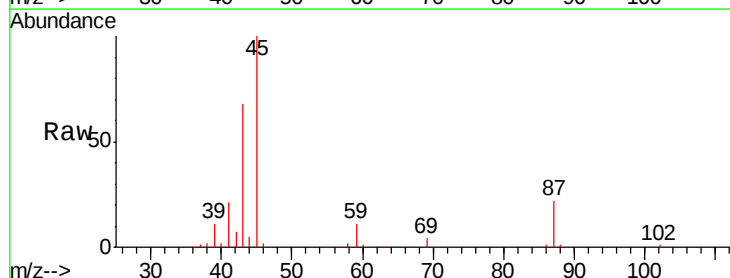
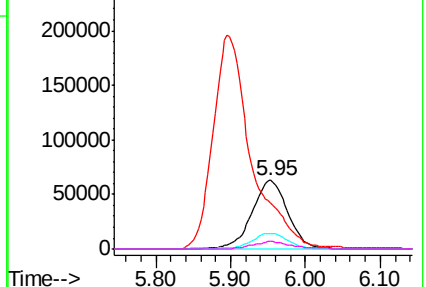
59 10.3 8.6 12.8

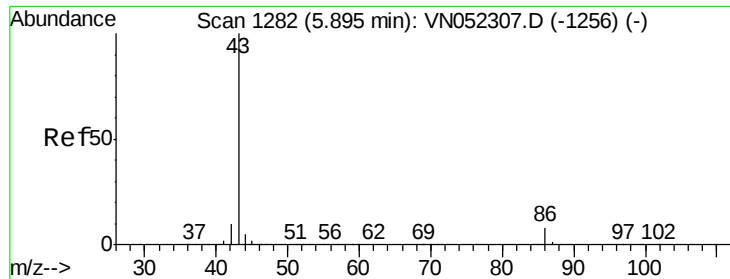
Abundance Ion 45.00 (44.70 to 45.70): VN052334.D (-1207) (-)

Ion 43.00 (42.70 to 43.70): VN052334.D (-1207) (-)

Ion 87.00 (86.70 to 87.70): VN052334.D (-1207) (-)

Ion 59.00 (58.70 to 59.70): VN052334.D (-1207) (-)





#23

Vinyl Acetate

Concen: 98.49 ug/l

RT: 5.90 min Scan# 1282

Delta R.T. 0.00 min

Lab File: VN052334.D

Acq: 15 Nov 2018 11:16

Instrument :

MSVOA_N

ClientSampleId :

VN1115WBSD01

Tgt Ion: 43 Resp: 700717

Ion Ratio Lower Upper

43 100

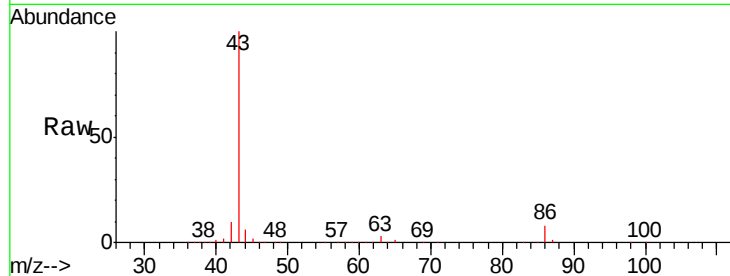
86 8.2 6.5 9.7

Manual Integrations

APPROVED

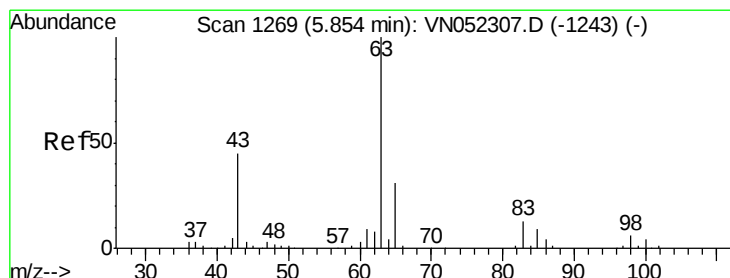
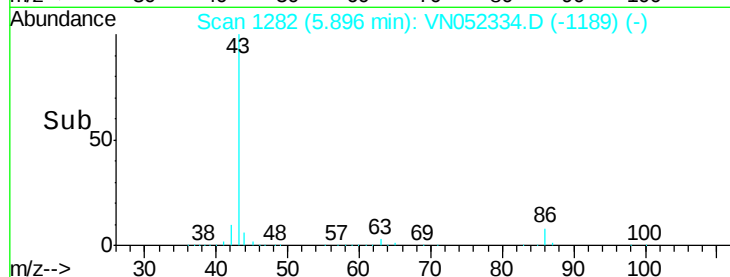
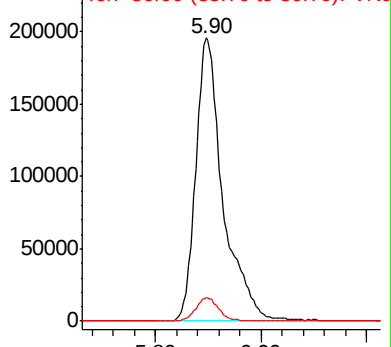
MMDadoda

11/16/2018 4:06:57 PM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#24

1,1-Dichloroethane

Concen: 19.26 ug/l

RT: 5.85 min Scan# 1268

Delta R.T. -0.00 min

Lab File: VN052334.D

Acq: 15 Nov 2018 11:16

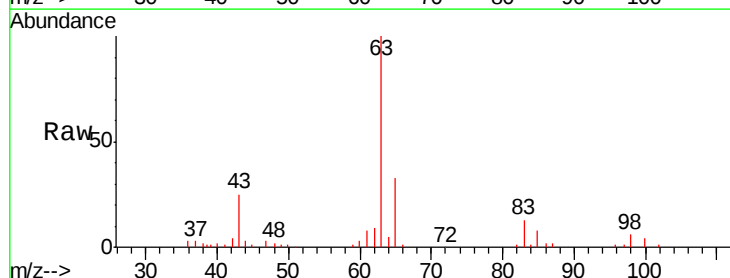
Tgt Ion: 63 Resp: 108289

Ion Ratio Lower Upper

63 100

98 5.8 2.9 8.6

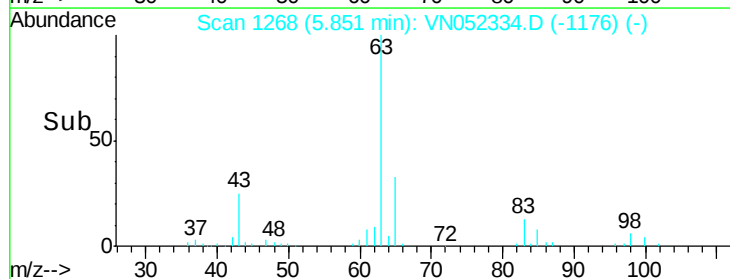
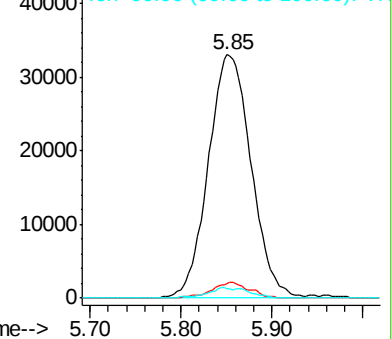
100 4.1 1.9 5.7

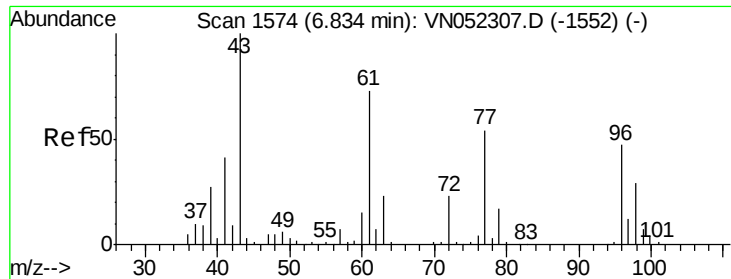


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





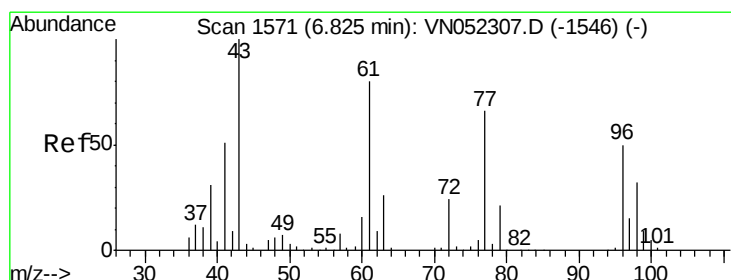
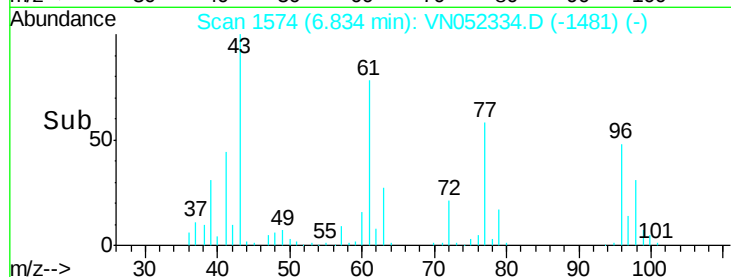
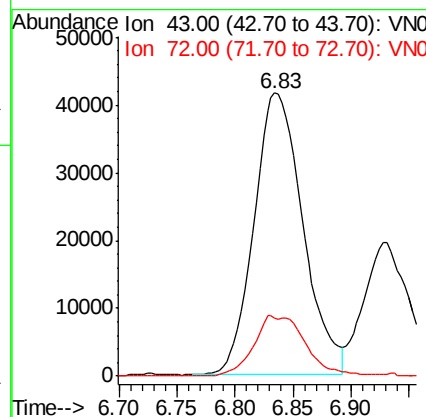
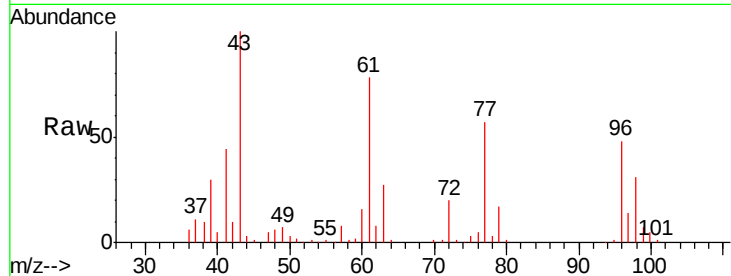
#25
2-Butanone
Concen: 91.90 ug/l
RT: 6.83 min Scan# 1574
Delta R.T. 0.00 min
Lab File: VN052334.D
Acq: 15 Nov 2018 11:16

Instrument :
MSVOA_N
ClientSampleId :
VN1115WBSD01

Tgt Ion: 43 Resp: 122329
Ion Ratio Lower Upper
43 100
72 20.5 18.6 27.8

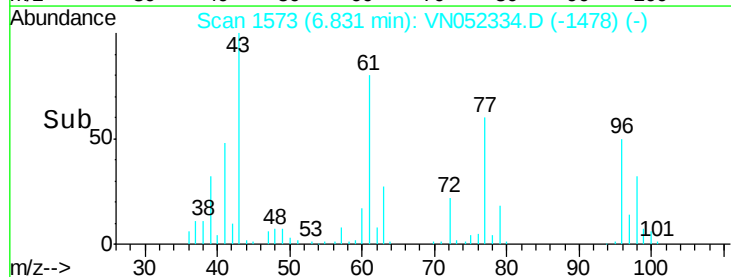
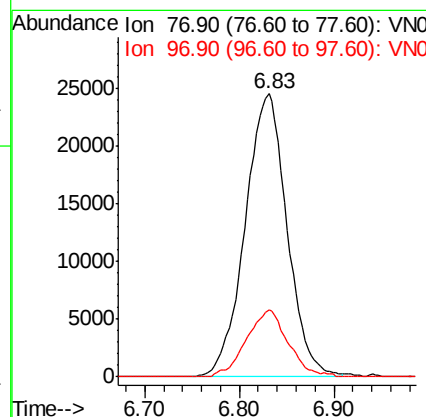
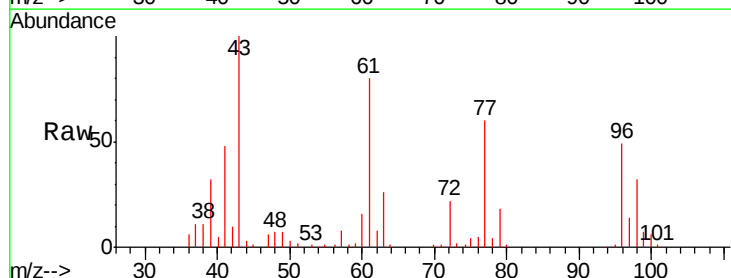
Manual Integrations
APPROVED

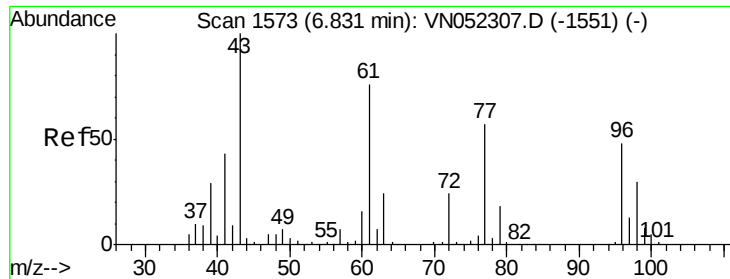
MMDadoda
11/16/2018 4:06:57 PM



#26
2,2-Dichloropropane
Concen: 18.23 ug/l
RT: 6.83 min Scan# 1573
Delta R.T. 0.01 min
Lab File: VN052334.D
Acq: 15 Nov 2018 11:16

Tgt Ion: 77 Resp: 75379
Ion Ratio Lower Upper
77 100
97 23.2 11.1 33.1





#27

cis-1,2-Dichloroethene

Concen: 19.29 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VN052334.D

Acq: 15 Nov 2018 11:16

Instrument :

MSVOA_N

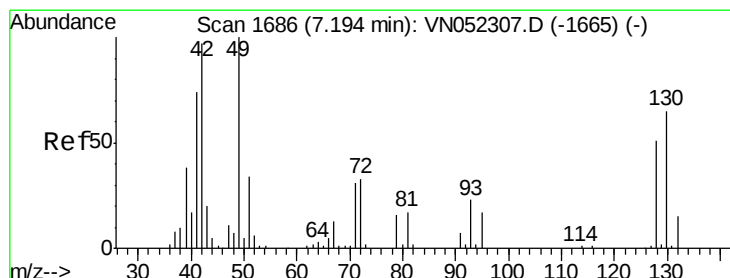
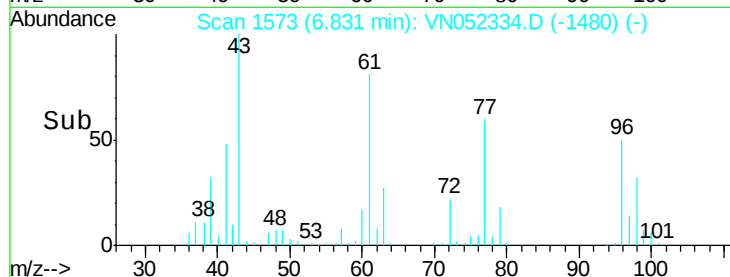
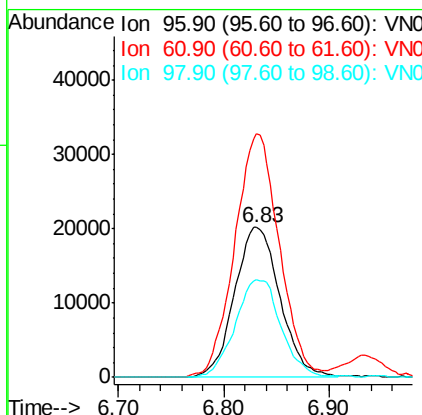
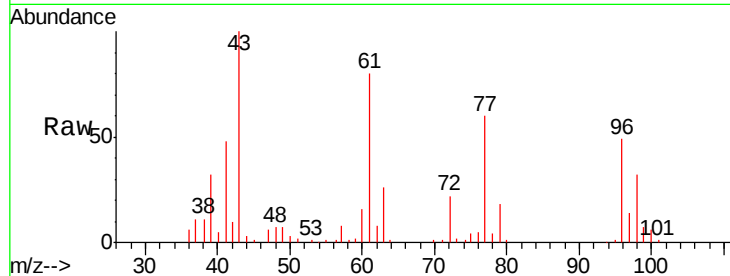
ClientSampleId :

VN1115WBSD01

Tgt Ion:	96	Resp:	60517
Ion	Ratio	Lower	Upper
96	100		
61	159.1	0.0	316.8
98	65.3	0.0	126.6

Manual Integrations
APPROVED

MMDadoda
11/16/2018 4:06:57 PM



#28

Bromochloromethane

Concen: 20.96 ug/l

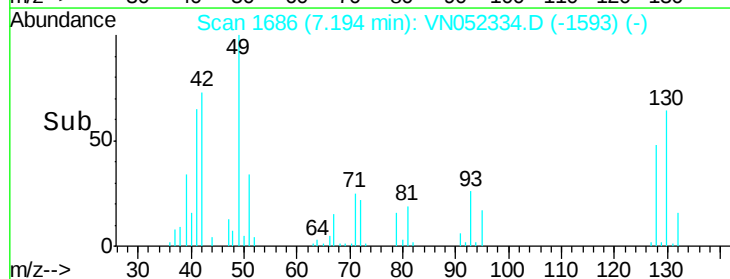
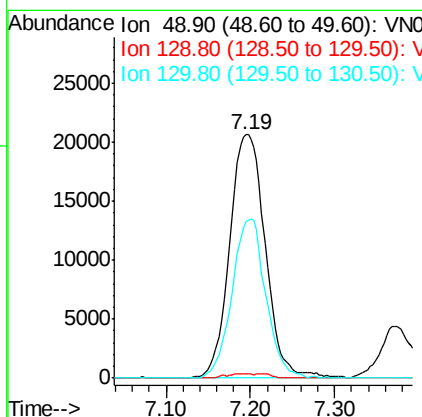
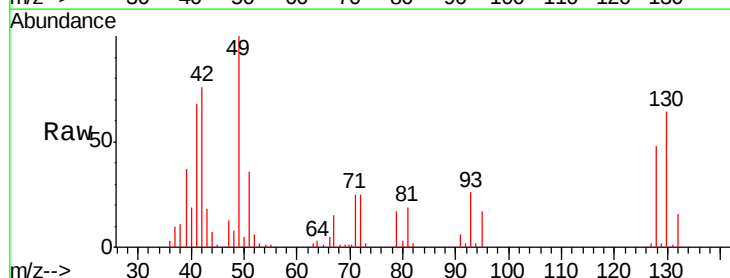
RT: 7.19 min Scan# 1686

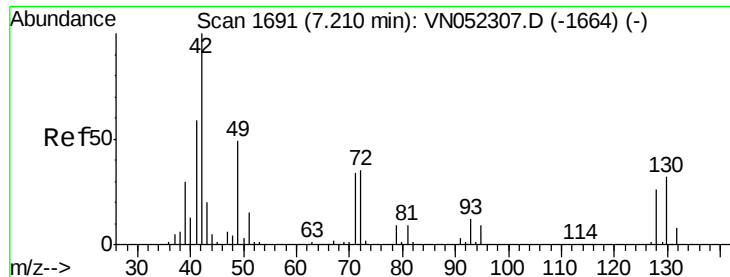
Delta R.T. 0.00 min

Lab File: VN052334.D

Acq: 15 Nov 2018 11:16

Tgt Ion:	49	Resp:	60614
Ion	Ratio	Lower	Upper
49	100		
129	1.3	0.0	3.0
130	61.7	50.4	75.6





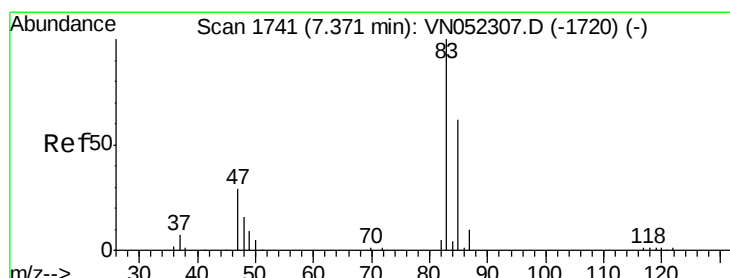
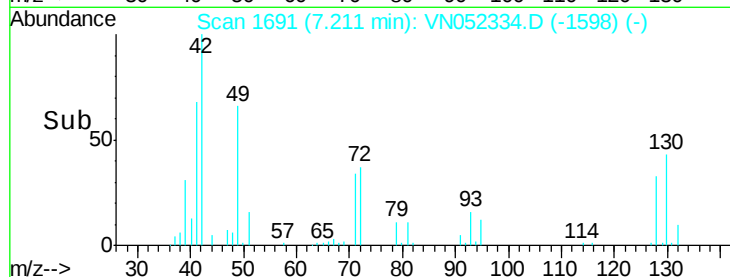
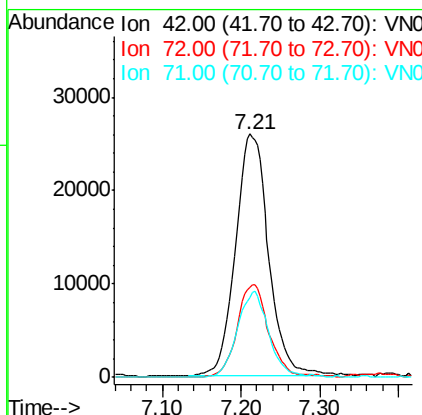
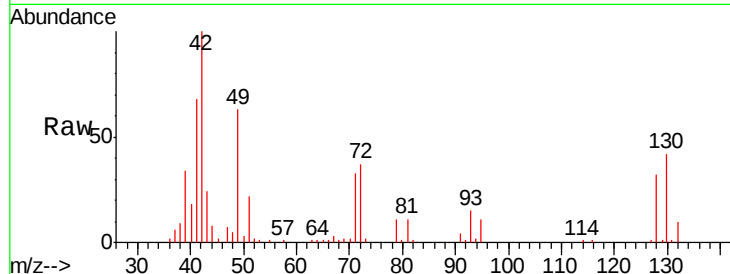
#29
Tetrahydrofuran
Concen: 86.96 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. 0.00 min
Lab File: VN052334.D
Acq: 15 Nov 2018 11:16

Instrument :
MSVOA_N
ClientSampleId :
VN1115WBSD01

Tgt Ion	Ratio	Lower	Upper
42	100		
72	36.6	28.6	42.8
71	33.9	26.7	40.1

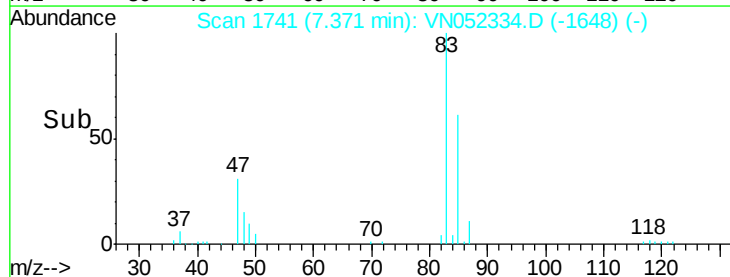
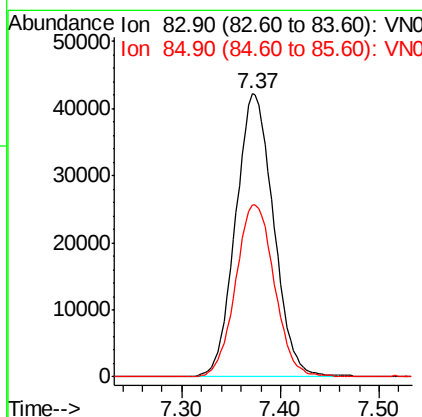
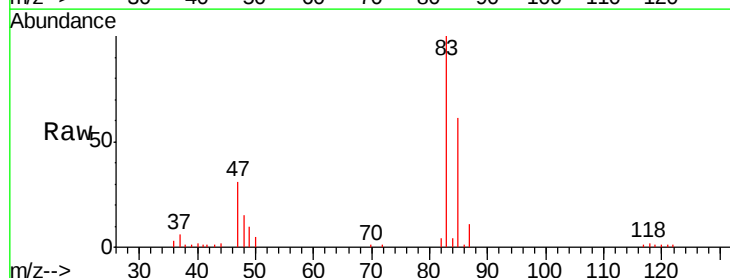
Manual Integrations
APPROVED

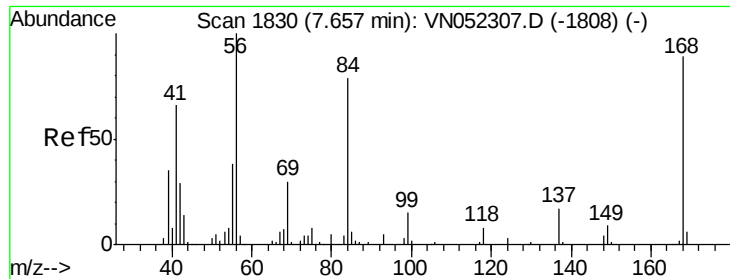
MMDadoda
11/16/2018 4:06:57 PM



#30
Chloroform
Concen: 21.03 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. 0.00 min
Lab File: VN052334.D
Acq: 15 Nov 2018 11:16

Tgt Ion	Ratio	Lower	Upper
83	100		
85	60.6	49.4	74.2





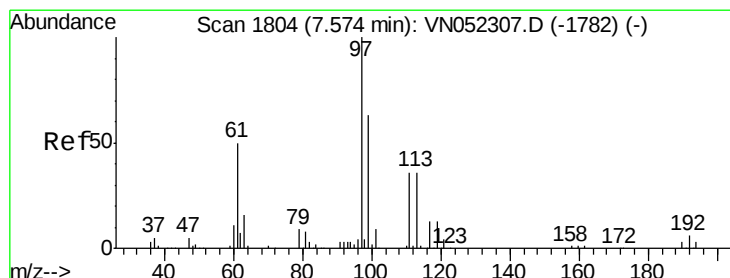
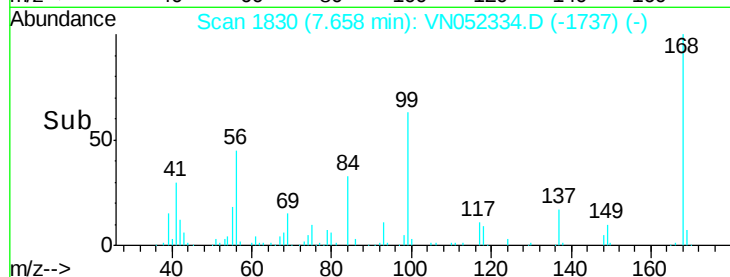
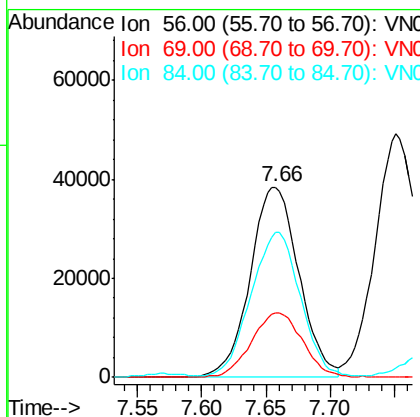
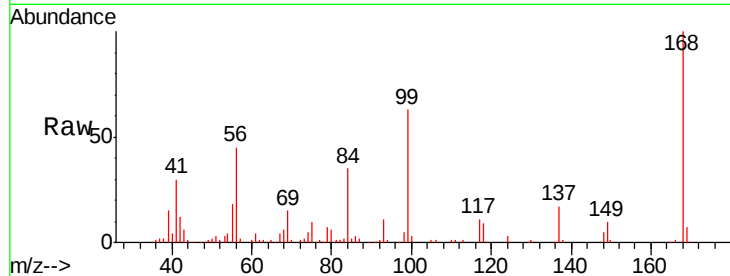
#31
Cyclohexane
Concen: 18.68 ug/l
RT: 7.66 min Scan# 1830
Delta R.T. 0.00 min
Lab File: VN052334.D
Acq: 15 Nov 2018 11:16

Instrument :
MSVOA_N
ClientSampleId :
VN1115WBSD01

Tgt Ion	Ratio	Lower	Upper
56	100		
69	33.8	23.8	35.8
84	75.3	63.0	94.6

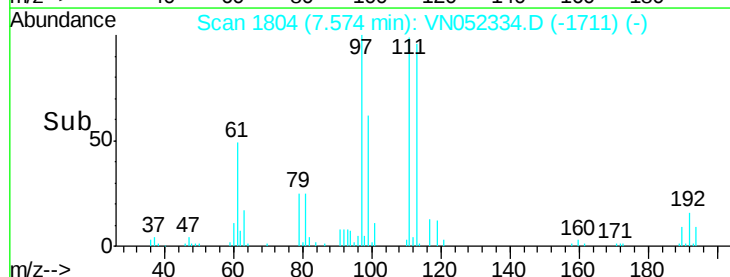
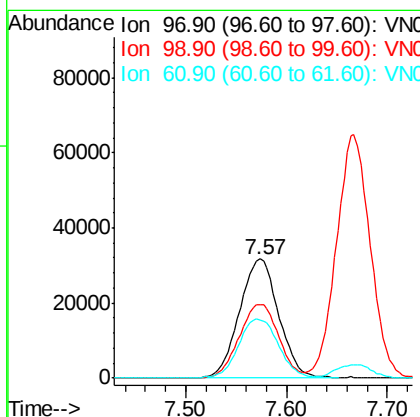
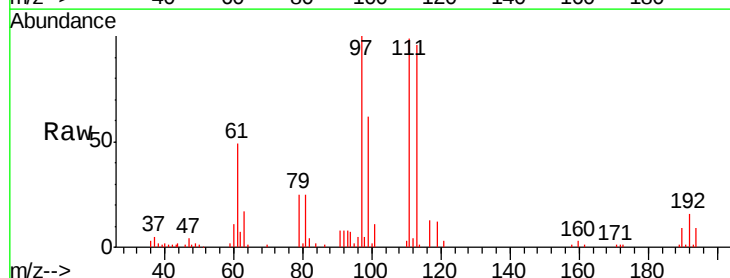
Manual Integrations
APPROVED

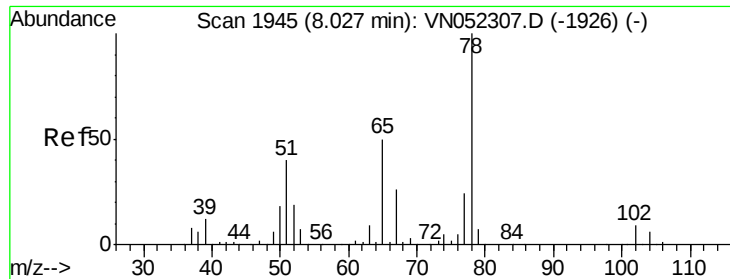
MMDadoda
11/16/2018 4:06:57 PM



#32
1,1,1-Trichloroethane
Concen: 18.74 ug/l
RT: 7.57 min Scan# 1804
Delta R.T. 0.00 min
Lab File: VN052334.D
Acq: 15 Nov 2018 11:16

Tgt Ion	Ratio	Lower	Upper
97	100		
99	62.5	50.2	75.2
61	50.8	40.2	60.4





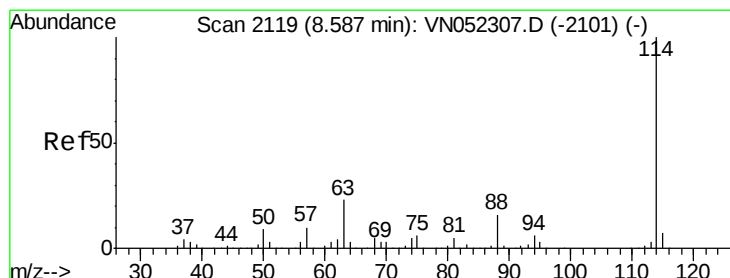
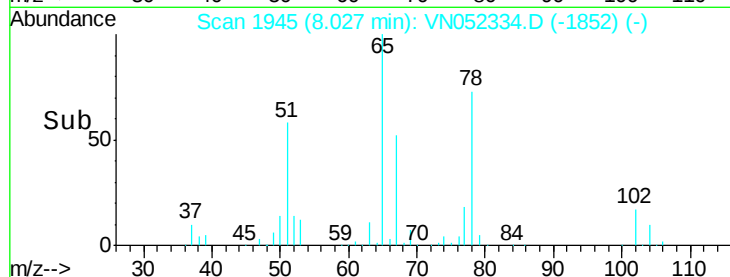
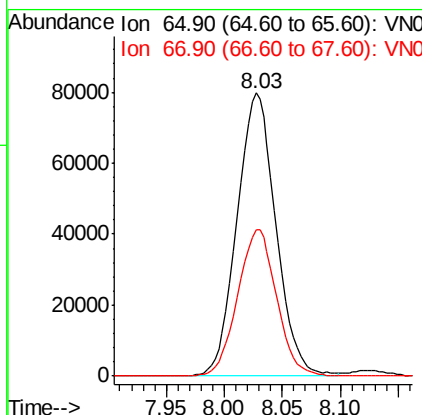
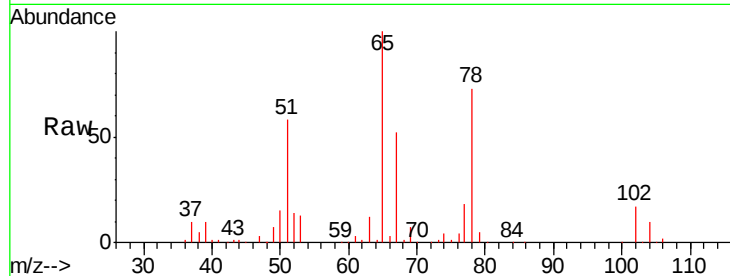
#33
 1,2-Dichloroethane-d4
 Concen: 18.74 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN052334.D
 Acq: 15 Nov 2018 11:16

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1115WBSD01

Tgt Ion	Ratio	Resp	Lower	Upper
65	100	185969		
67	51.6	0.0	105.2	

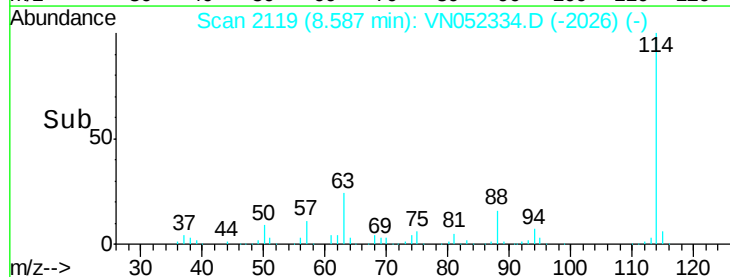
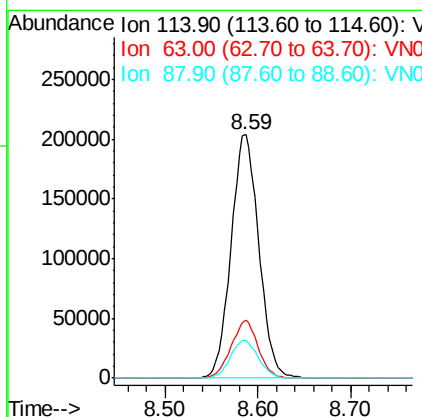
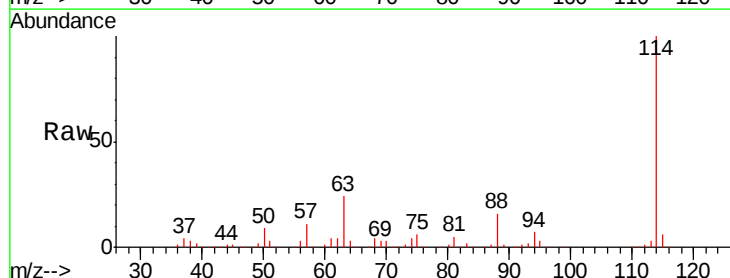
Manual Integrations
 APPROVED

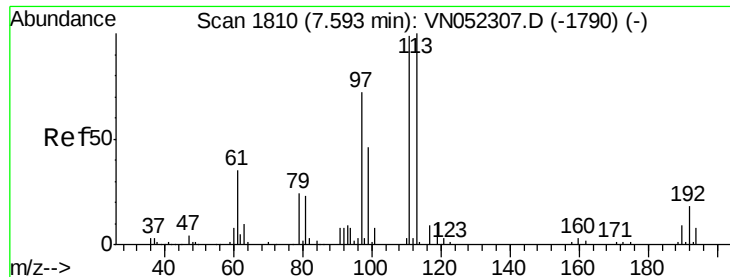
MMDadoda
 11/16/2018 4:06:57 PM



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN052334.D
 Acq: 15 Nov 2018 11:16

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	422666		
63	23.8	0.0	45.4	
88	15.5	0.0	31.2	





#35

Dibromofluoromethane

Concen: 50.00 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. -0.00 min

Lab File: VN052334.D

Acq: 15 Nov 2018 11:16

Instrument :

MSVOA_N

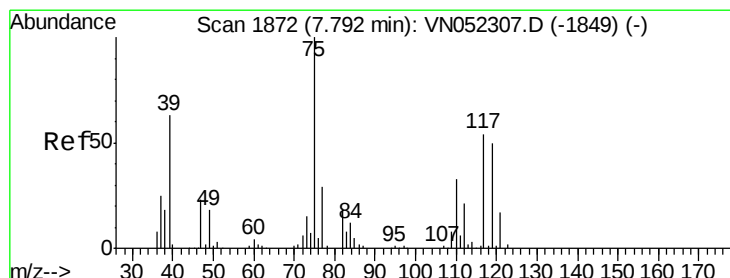
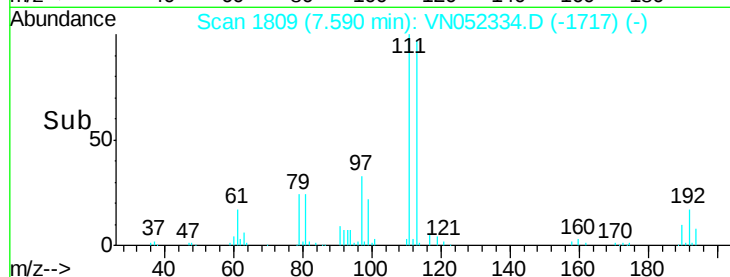
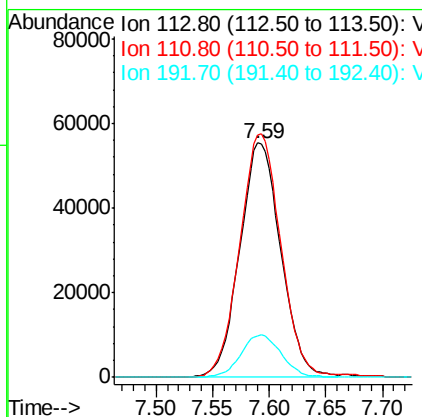
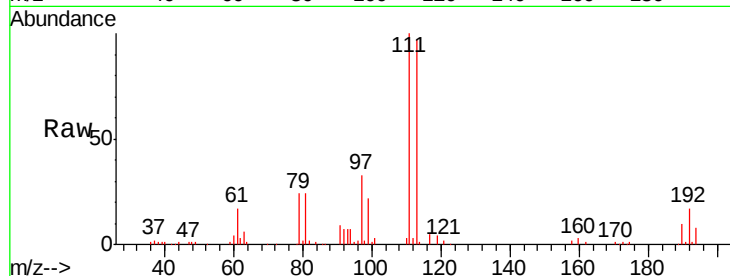
ClientSampleId :

VN1115WBSD01

Tgt Ion:	113	Resp:	140061
Ion Ratio	Lower	Upper	
113	100		
111	103.7	81.0	121.6
192	17.9	13.8	20.6

Manual Integrations
APPROVED

MMDadoda
11/16/2018 4:06:57 PM



#36

1,1-Dichloropropene

Concen: 18.38 ug/l

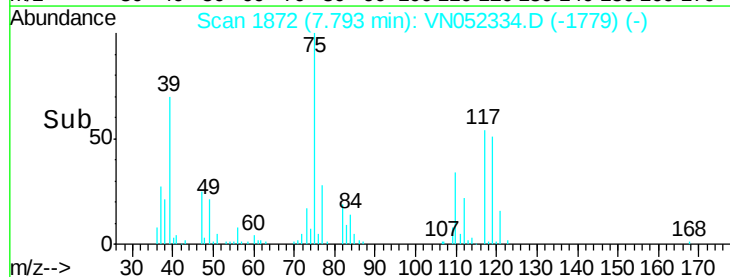
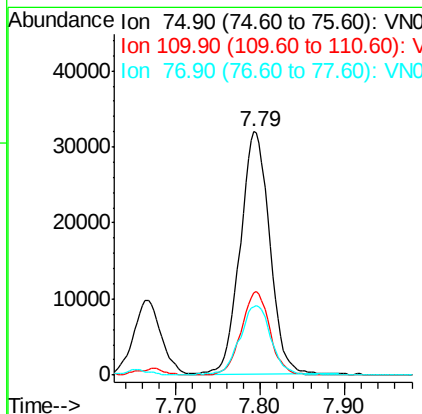
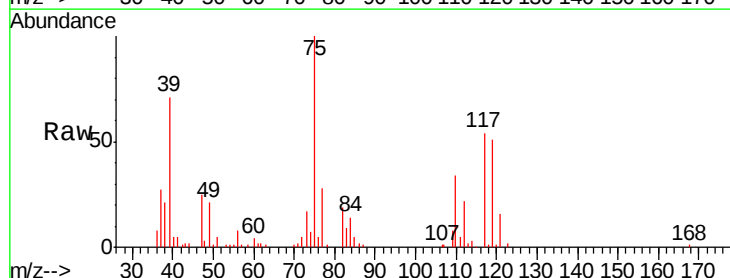
RT: 7.79 min Scan# 1872

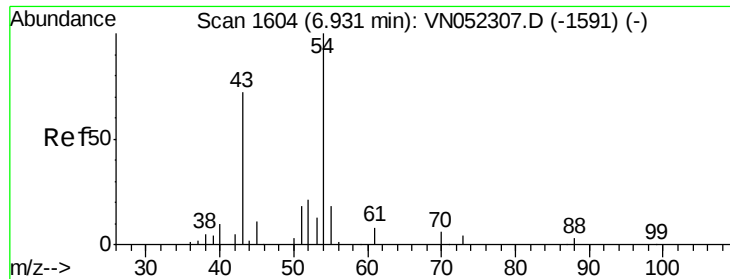
Delta R.T. 0.00 min

Lab File: VN052334.D

Acq: 15 Nov 2018 11:16

Tgt Ion:	75	Resp:	77883
Ion Ratio	Lower	Upper	
75	100		
110	33.1	16.5	49.5
77	30.0	24.2	36.2





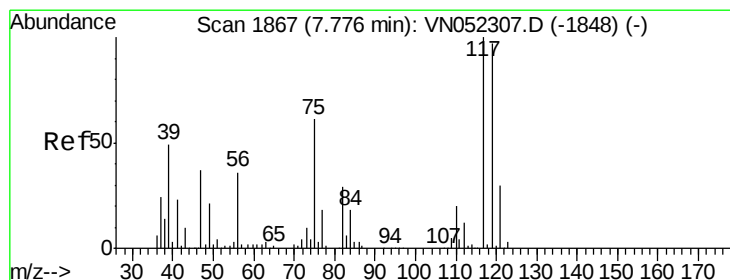
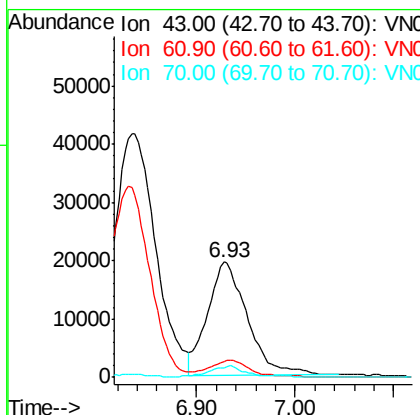
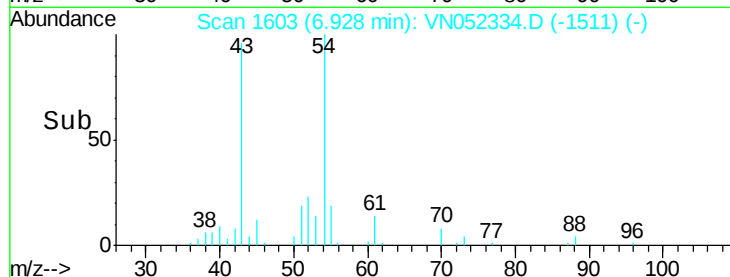
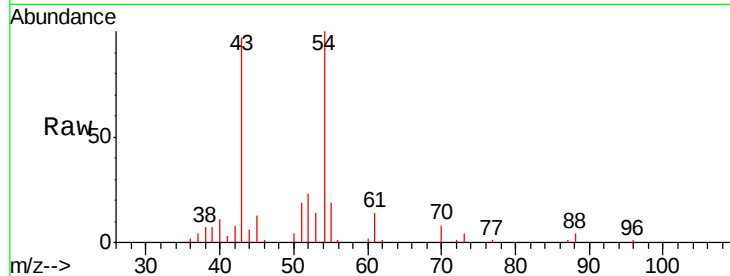
#37
Ethyl Acetate
Concen: 17.92 ug/l
RT: 6.93 min Scan# 1603
Delta R.T. -0.00 min
Lab File: VN052334.D
Acq: 15 Nov 2018 11:16

Instrument :
MSVOA_N
ClientSampleId :
VN1115WBSD01

Tgt Ion: 43 Resp: 55105
Ion Ratio Lower Upper
43 100
61 13.0 10.3 15.5
70 9.0 5.6 8.4#

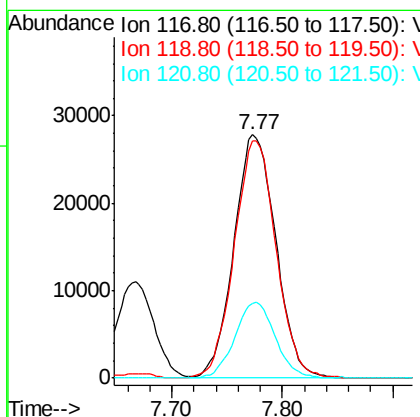
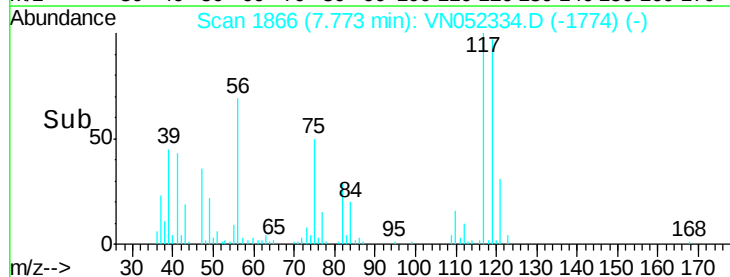
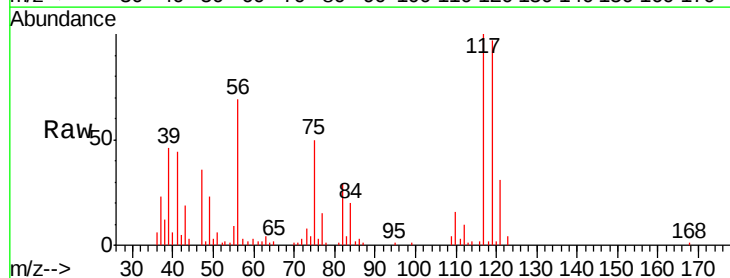
Manual Integrations
APPROVED

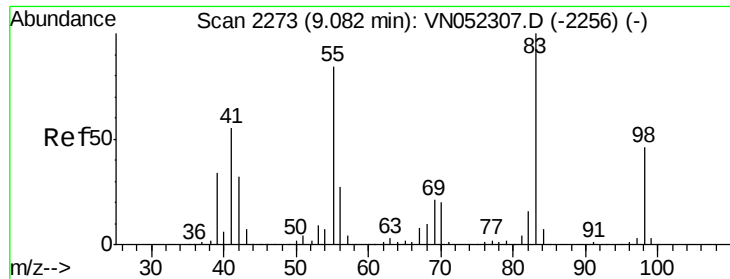
MMDadoda
11/16/2018 4:06:57 PM



#38
Carbon Tetrachloride
Concen: 18.87 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. -0.00 min
Lab File: VN052334.D
Acq: 15 Nov 2018 11:16

Tgt Ion: 117 Resp: 73428
Ion Ratio Lower Upper
117 100
119 97.2 77.4 116.0
121 30.8 24.0 36.0





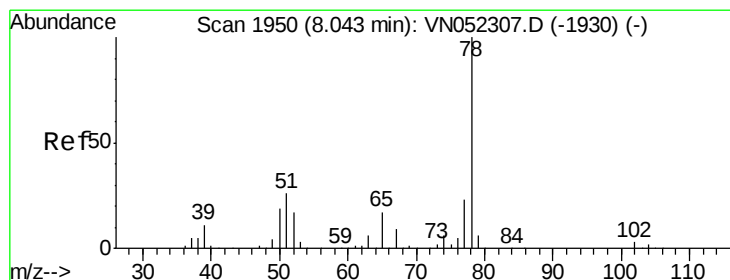
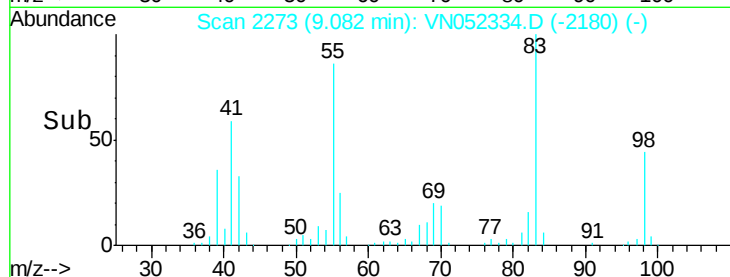
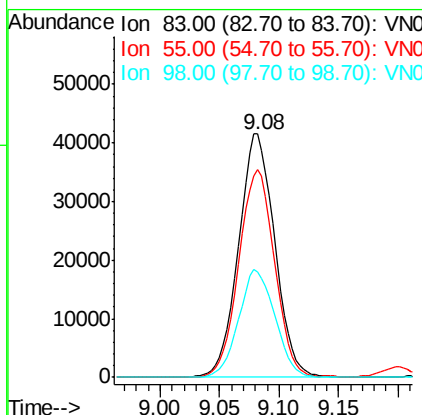
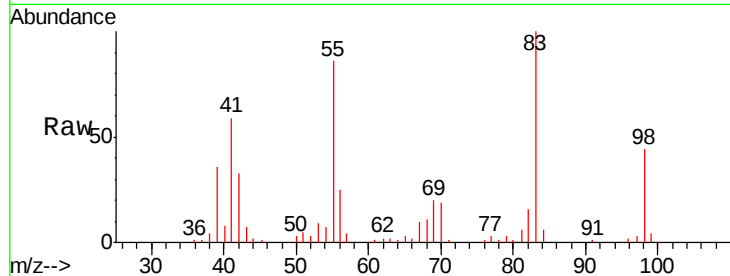
#39
Methylcyclohexane
Concen: 18.10 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN052334.D
Acq: 15 Nov 2018 11:16

Instrument :
MSVOA_N
ClientSampleId :
VN1115WBSD01

Tgt Ion	Ratio	Lower	Upper
83	100		
55	85.6	66.8	100.2
98	43.5	36.4	54.6

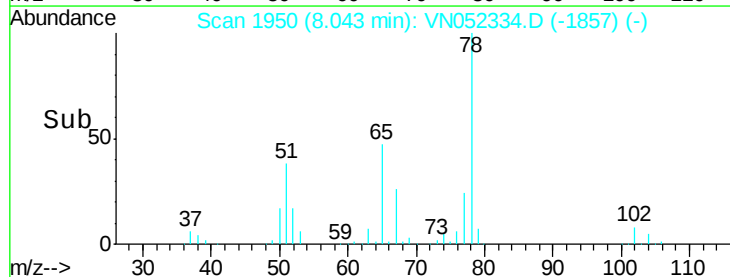
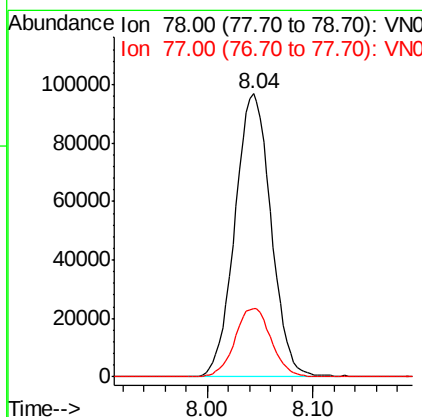
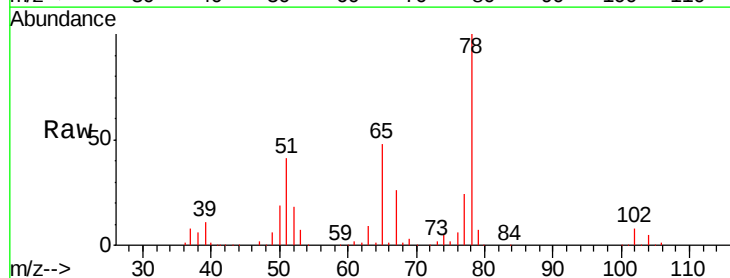
Manual Integrations
APPROVED

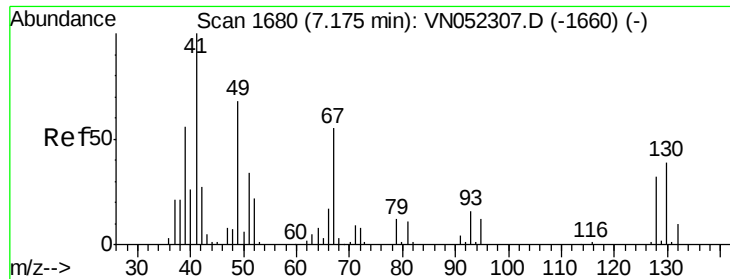
MMDadoda
11/16/2018 4:06:57 PM



#40
Benzene
Concen: 19.03 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN052334.D
Acq: 15 Nov 2018 11:16

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.3	18.7	28.1





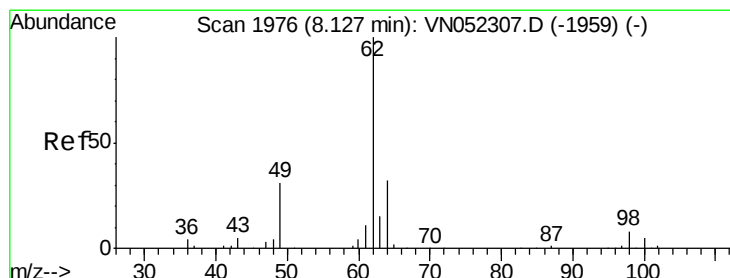
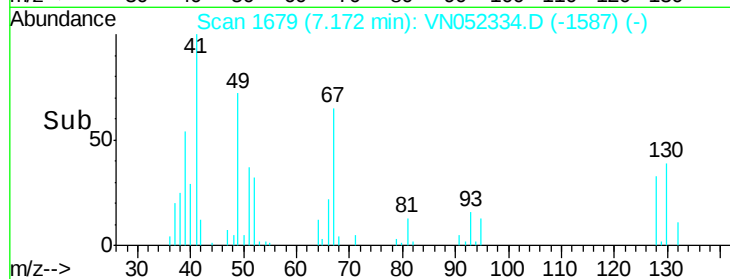
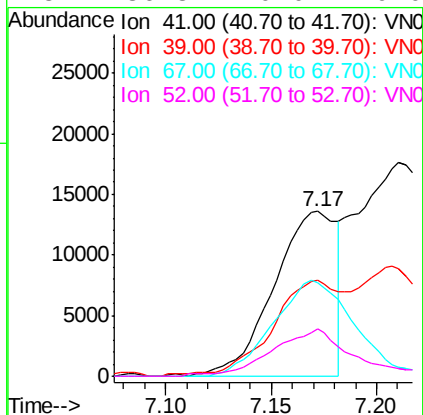
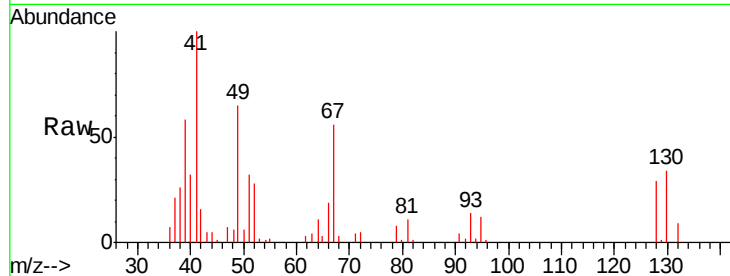
#41
Methacrylonitrile
Concen: 18.91 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. -0.00 min
Lab File: VN052334.D
Acq: 15 Nov 2018 11:16

Instrument :
MSVOA_N
ClientSampleId :
VN1115WBSD01

Tgt Ion	Ratio	Lower	Upper
41	100		
39	64.1	0.0	0.0#
67	76.0	0.0	0.0#
52	36.8	0.0	0.0#

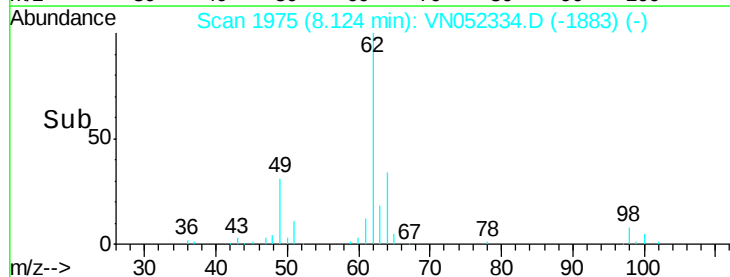
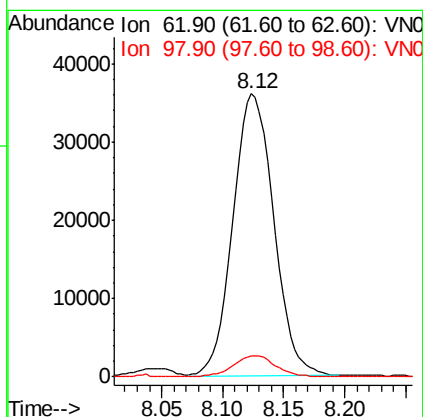
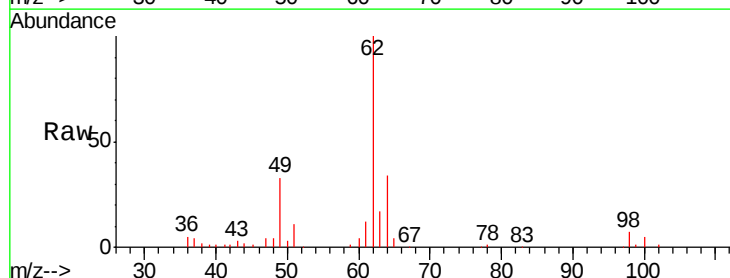
Manual Integrations
APPROVED

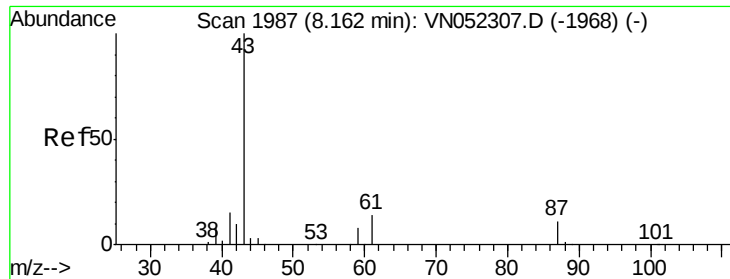
MMDadoda
11/16/2018 4:06:57 PM



#42
1,2-Dichloroethane
Concen: 19.38 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. -0.00 min
Lab File: VN052334.D
Acq: 15 Nov 2018 11:16

Tgt Ion	Ratio	Lower	Upper
62	100		
98	7.8	0.0	15.6





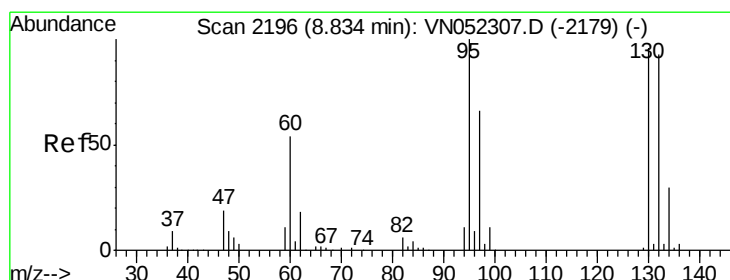
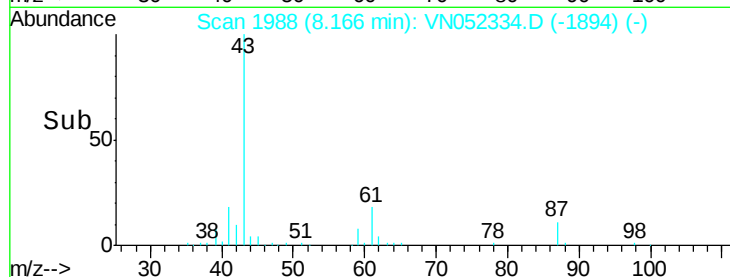
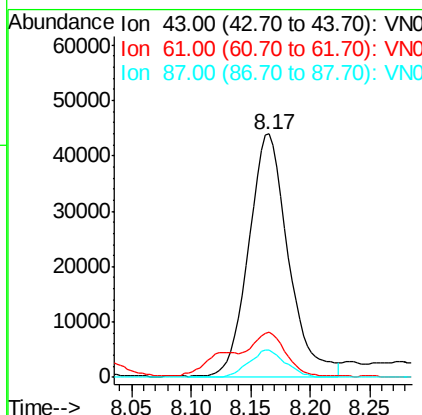
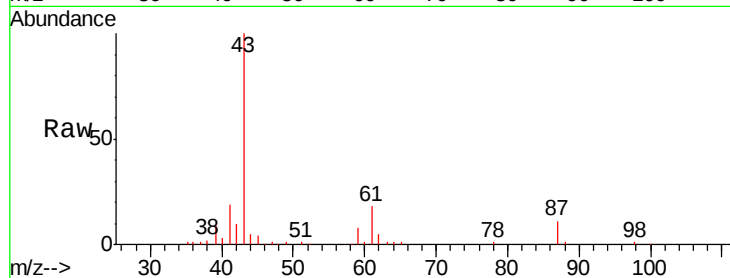
#43
Isopropyl Acetate
Concen: 17.01 ug/l
RT: 8.17 min Scan# 1988
Delta R.T. 0.00 min
Lab File: VN052334.D
Acq: 15 Nov 2018 11:16

Instrument :
MSVOA_N
ClientSampleId :
VN1115WBSD01

Tgt Ion	Ratio	Lower	Upper
43	100		
61	14.8	12.0	18.0
87	10.3	8.3	12.5

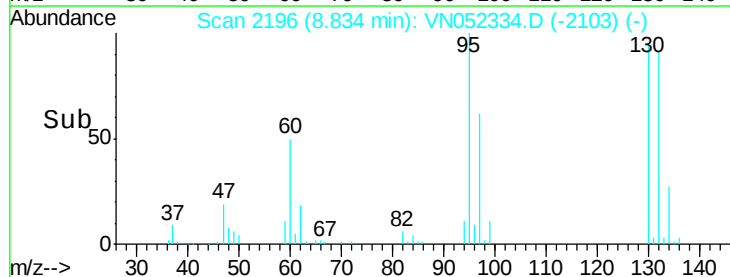
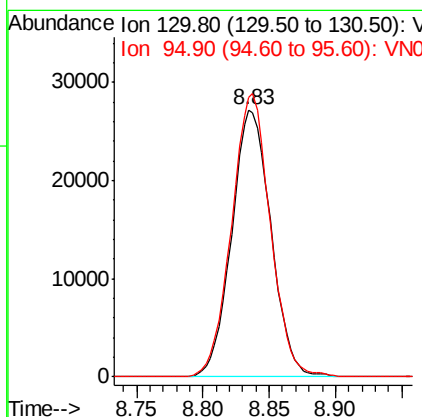
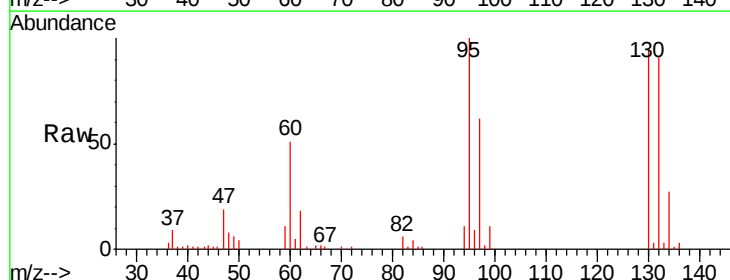
Manual Integrations
APPROVED

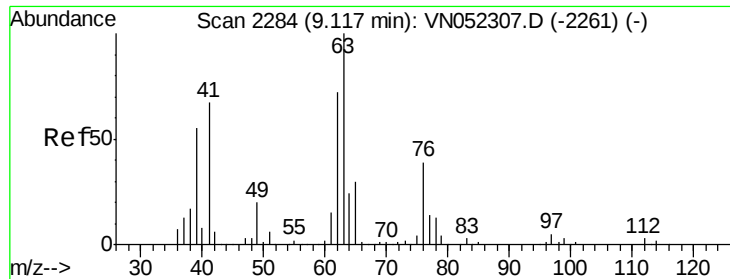
MMDadoda
11/16/2018 4:06:57 PM



#44
Trichloroethene
Concen: 18.79 ug/l
RT: 8.83 min Scan# 2196
Delta R.T. 0.00 min
Lab File: VN052334.D
Acq: 15 Nov 2018 11:16

Tgt Ion	Ratio	Lower	Upper
130	100		
95	104.9	0.0	208.4





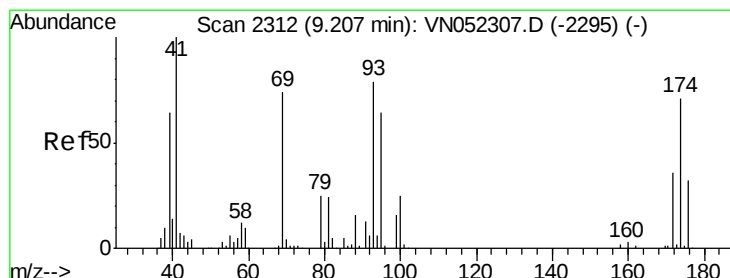
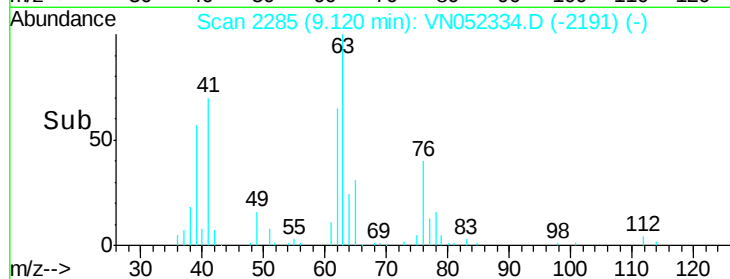
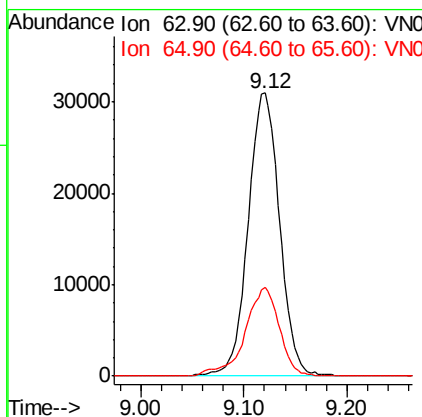
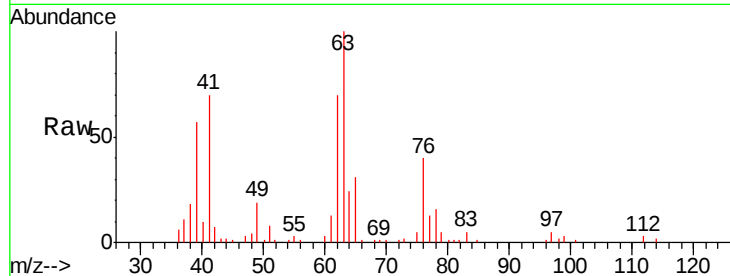
#45
 1,2-Dichloropropane
 Concen: 19.09 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN052334.D
 Acq: 15 Nov 2018 11:16

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1115WBSD01

Tgt Ion: 63 Resp: 65551
 Ion Ratio Lower Upper
 63 100
 65 31.5 24.2 36.4

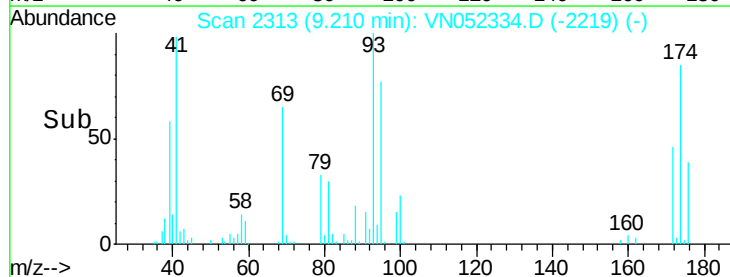
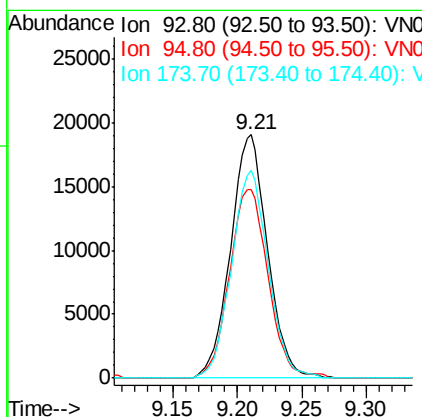
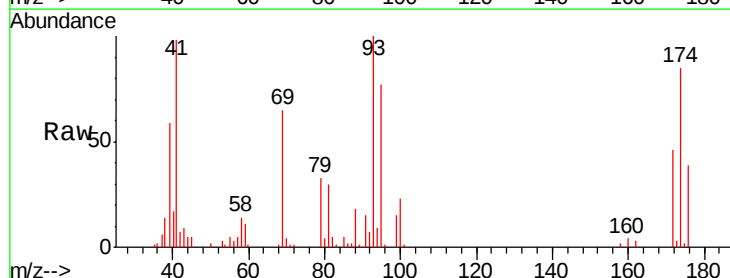
Manual Integrations
 APPROVED

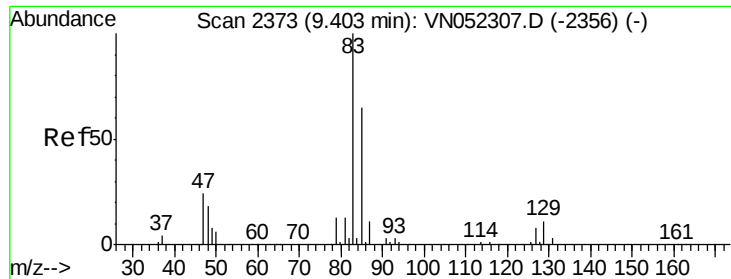
MMDadoda
 11/16/2018 4:06:57 PM



#46
 Dibromomethane
 Concen: 19.11 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN052334.D
 Acq: 15 Nov 2018 11:16

Tgt Ion: 93 Resp: 37994
 Ion Ratio Lower Upper
 93 100
 95 81.0 64.2 96.2
 174 85.0 70.9 106.3





#47

Bromodichloromethane

Concen: 19.76 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN052334.D

Acq: 15 Nov 2018 11:16

Instrument :

MSVOA_N

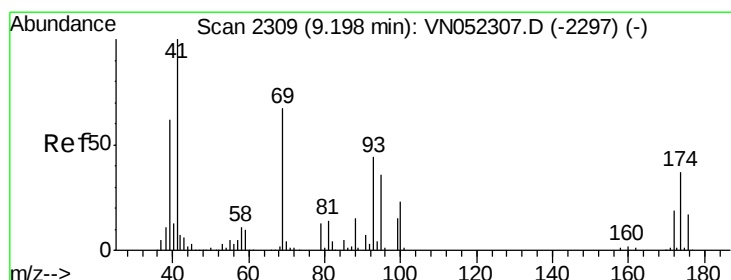
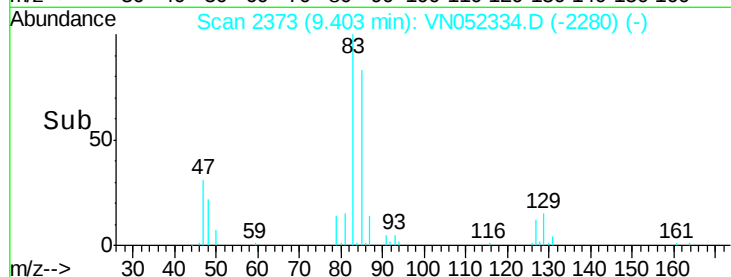
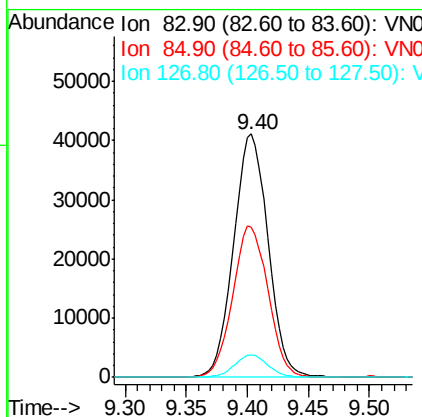
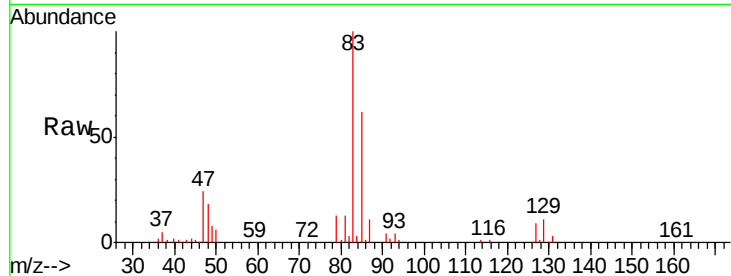
ClientSampleId :

VN1115WBSD01

Tgt Ion:	83	Resp:	80623
Ion Ratio	Lower	Upper	
83	100		
85	61.5	52.2	78.4
127	9.3	6.7	10.1

Manual Integrations
APPROVED

MMDadoda
11/16/2018 4:06:57 PM



#48

Methyl methacrylate

Concen: 16.98 ug/l

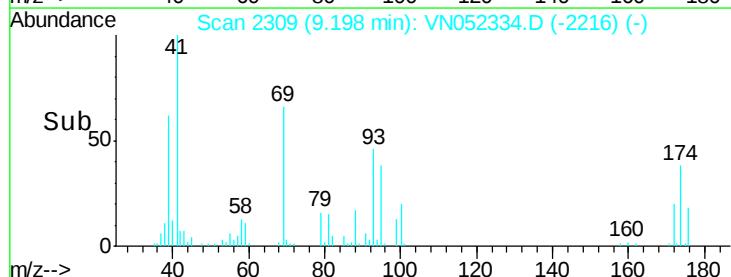
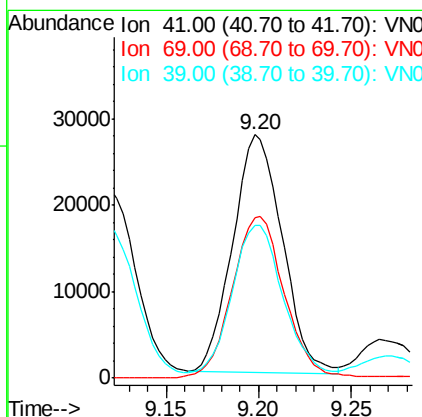
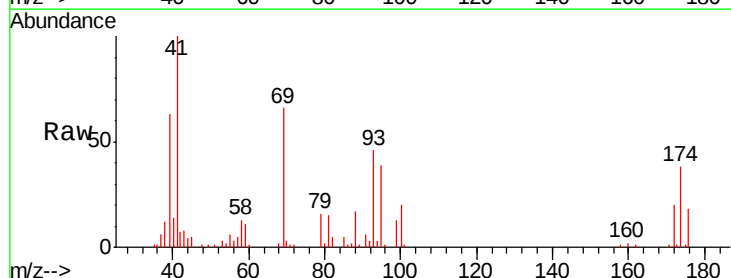
RT: 9.20 min Scan# 2309

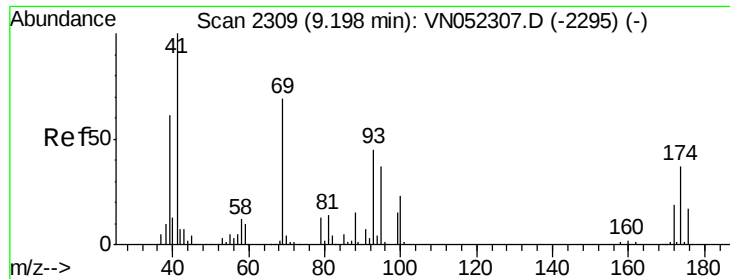
Delta R.T. 0.00 min

Lab File: VN052334.D

Acq: 15 Nov 2018 11:16

Tgt Ion:	41	Resp:	51111
Ion Ratio	Lower	Upper	
41	100		
69	71.7	57.1	85.7
39	65.9	52.5	78.7





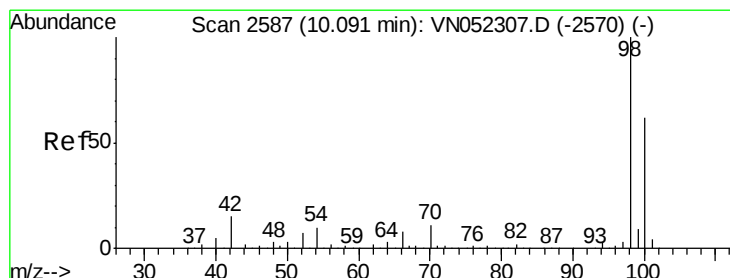
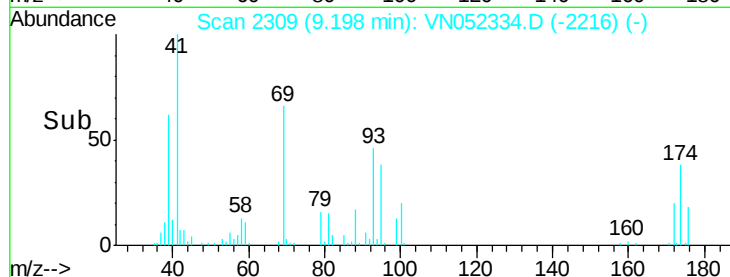
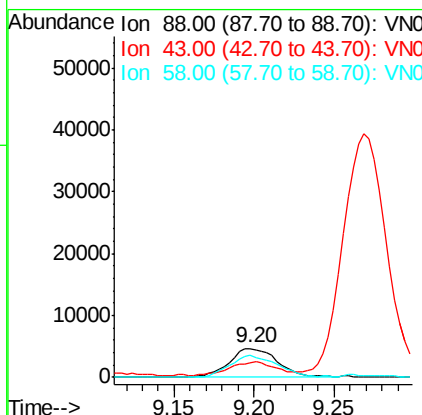
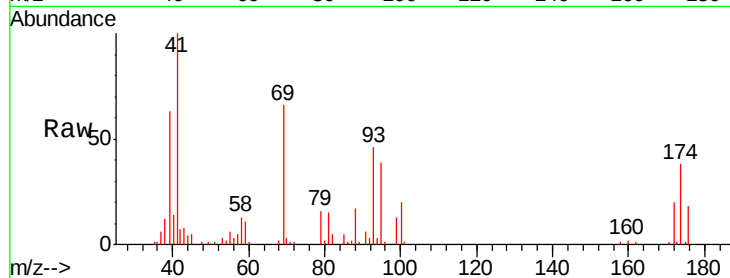
#49
1,4-Dioxane
Concen: 418.83 ug/l
RT: 9.20 min Scan# 2309
Delta R.T. 0.00 min
Lab File: VN052334.D
Acq: 15 Nov 2018 11:16

Instrument :
MSVOA_N
ClientSampleId :
VN1115WBSD01

Tgt Ion	Ratio	Lower	Upper
88	100		
43	44.0	33.3	49.9
58	76.4	59.2	88.8

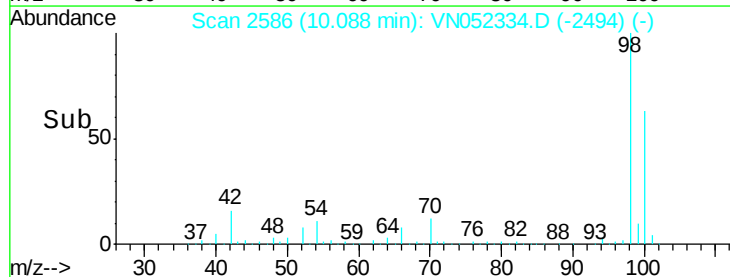
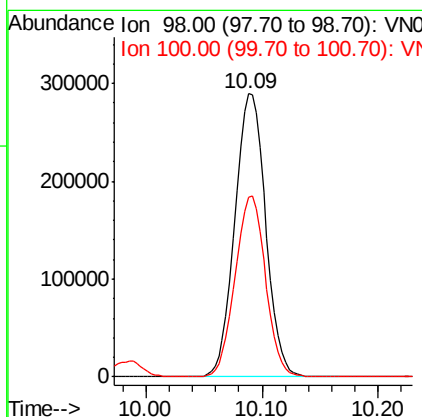
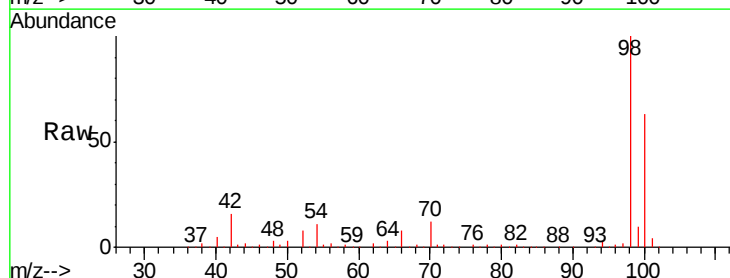
Manual Integrations
APPROVED

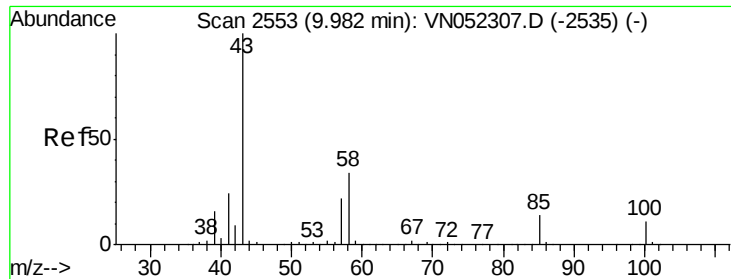
MMDadoda
11/16/2018 4:06:57 PM



#50
Toluene-d8
Concen: 418.83 ug/l
RT: 10.09 min Scan# 2586
Delta R.T. -0.00 min
Lab File: VN052334.D
Acq: 15 Nov 2018 11:16

Tgt Ion	Ratio	Lower	Upper
98	100		
100	63.1	49.5	74.3





#51

4-Methyl-2-Pentanone

Concen: 88.45 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. 0.00 min

Lab File: VN052334.D

Acq: 15 Nov 2018 11:16

Instrument :

MSVOA_N

ClientSampleId :

VN1115WBSD01

Tgt Ion: 43 Resp: 264132

Ion Ratio Lower Upper

43 100

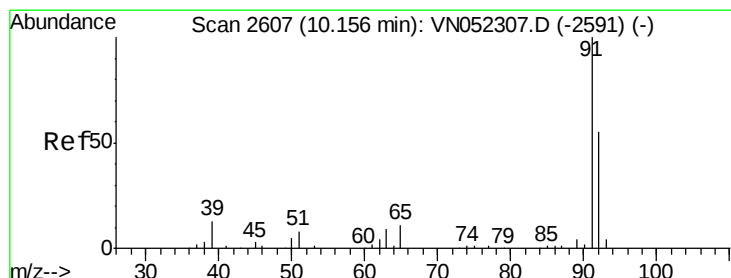
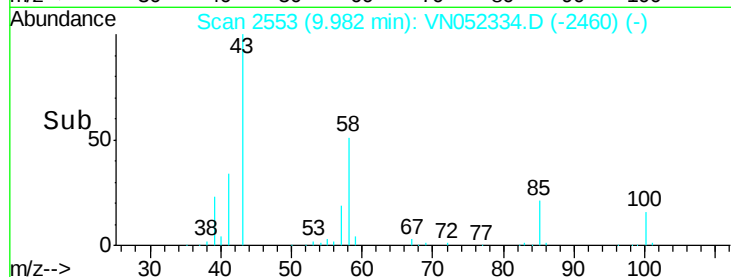
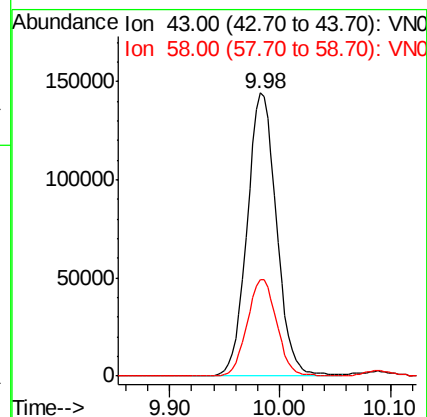
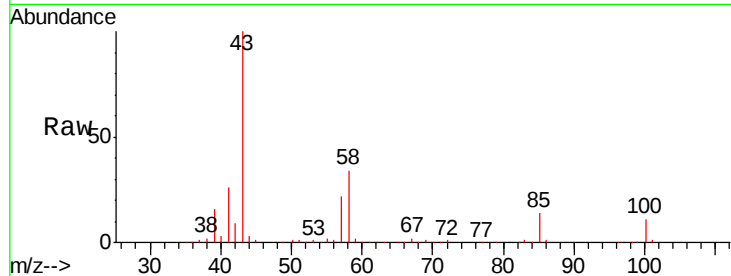
58 34.6 27.0 40.6

Manual Integrations

APPROVED

MMDadoda

11/16/2018 4:06:57 PM



#52

Toluene

Concen: 19.33 ug/l

RT: 10.15 min Scan# 2606

Delta R.T. -0.00 min

Lab File: VN052334.D

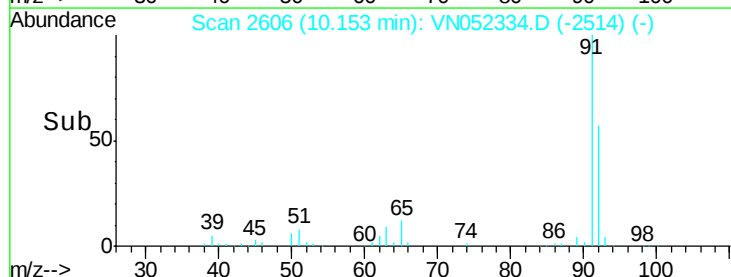
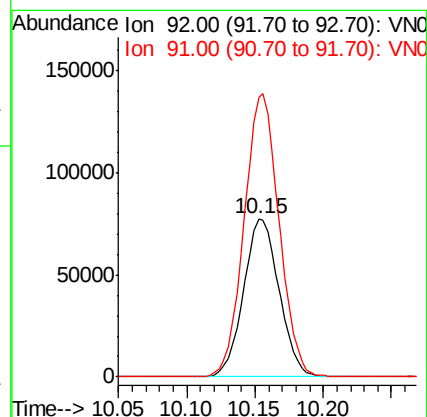
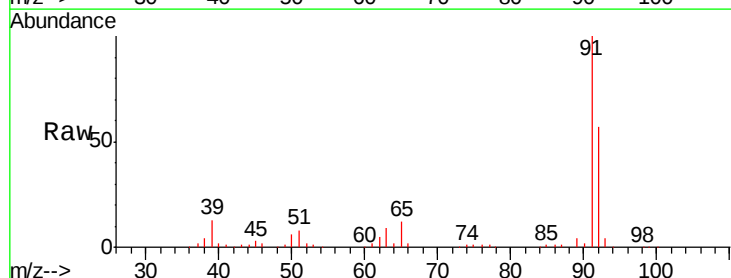
Acq: 15 Nov 2018 11:16

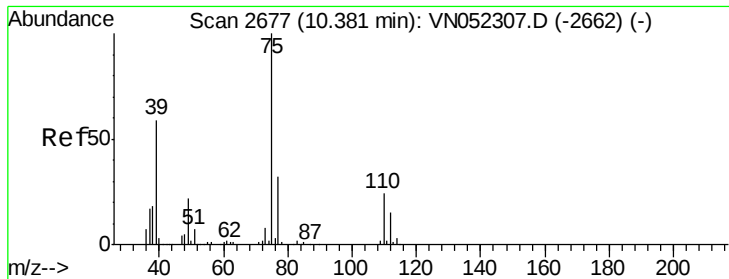
Tgt Ion: 92 Resp: 139960

Ion Ratio Lower Upper

92 100

91 176.4 143.6 215.4





#53

t-1,3-Dichloropropene

Concen: 18.34 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. 0.00 min

Lab File: VN052334.D

Acq: 15 Nov 2018 11:16

Instrument :

MSVOA_N

ClientSampleId :

VN1115WBSD01

Tgt Ion: 75 Resp: 75470

Ion Ratio Lower Upper

75 100

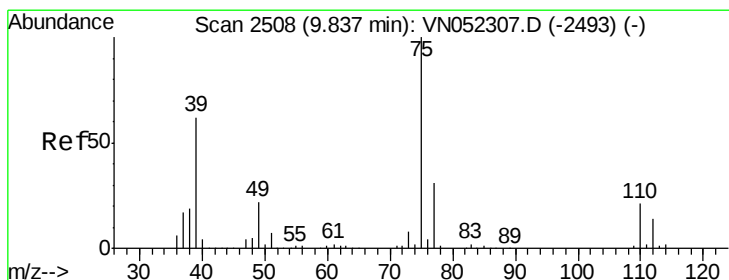
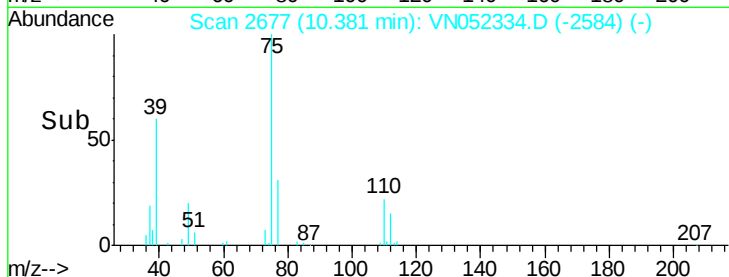
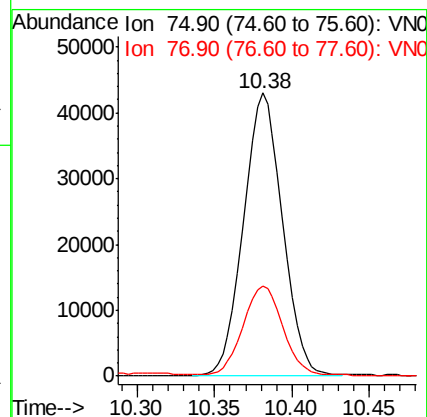
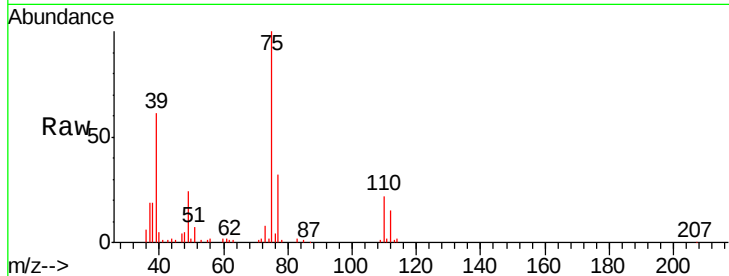
77 31.4 25.7 38.5

Manual Integrations

APPROVED

MMDadoda

11/16/2018 4:06:57 PM



#54

cis-1,3-Dichloropropene

Concen: 19.58 ug/l

RT: 9.84 min Scan# 2509

Delta R.T. 0.00 min

Lab File: VN052334.D

Acq: 15 Nov 2018 11:16

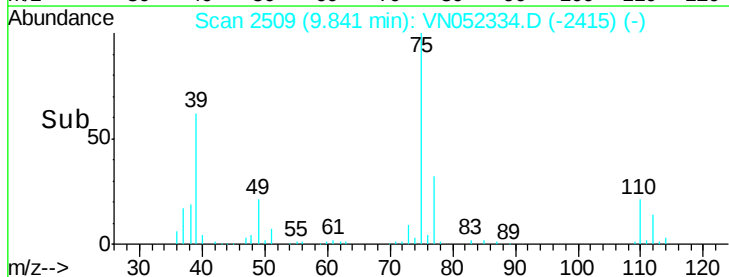
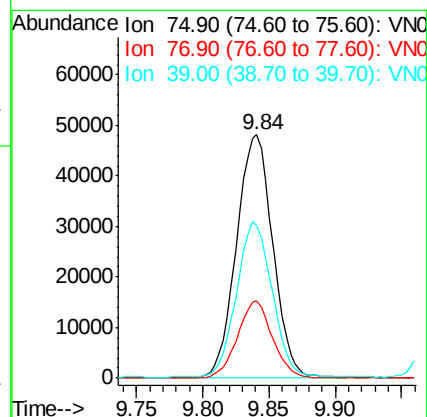
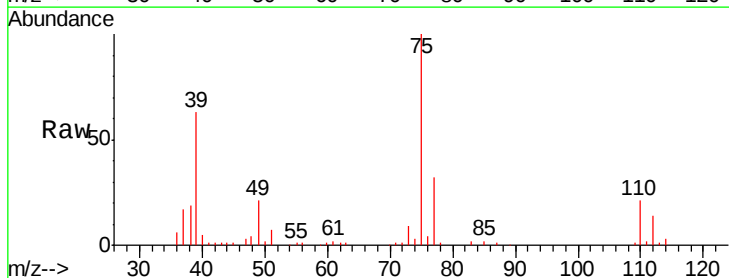
Tgt Ion: 75 Resp: 91828

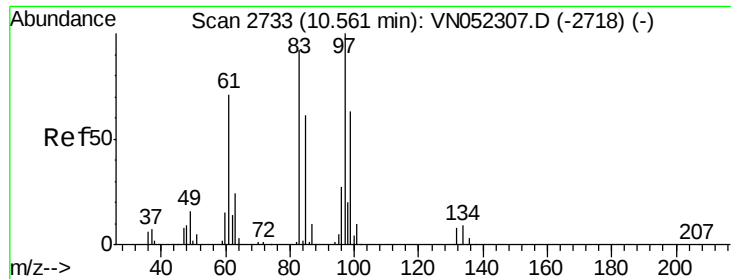
Ion Ratio Lower Upper

75 100

77 31.7 24.6 36.8

39 62.4 49.9 74.9





#55

1,1,2-Trichloroethane

Concen: 18.51 ug/l

RT: 10.56 min Scan# 2733

Delta R.T. 0.00 min

Lab File: VN052334.D

Acq: 15 Nov 2018 11:16

Instrument :

MSVOA_N

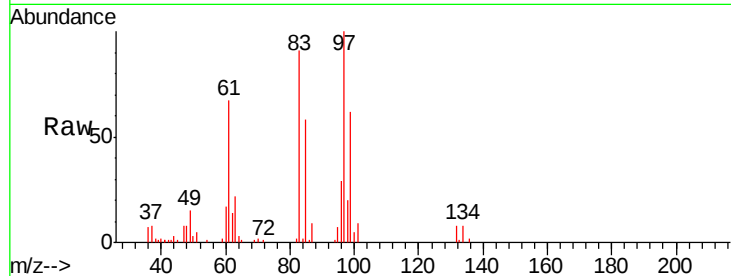
ClientSampleId :

VN1115WBSD01

Tgt Ion:	97	Resp:	48586
Ion	Ratio	Lower	Upper
97	100		
83	91.2	73.8	110.6
85	57.5	49.0	73.4
99	62.3	50.5	75.7

Manual Integrations
APPROVED

MMDadoda
11/16/2018 4:06:57 PM



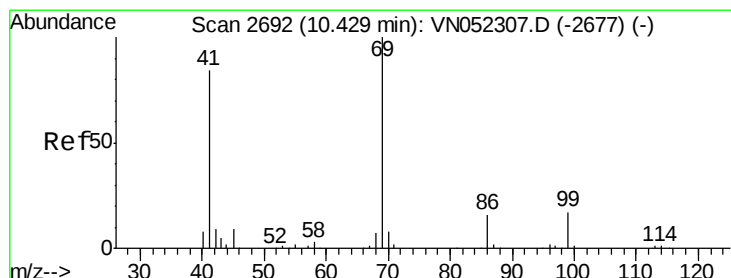
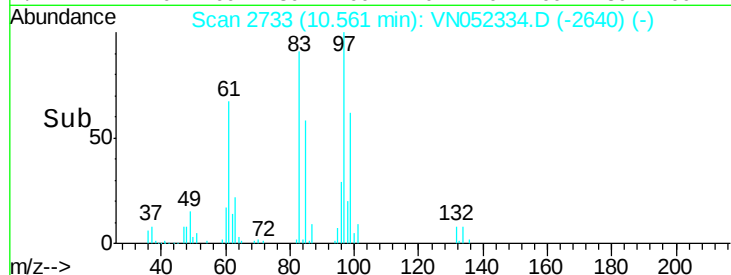
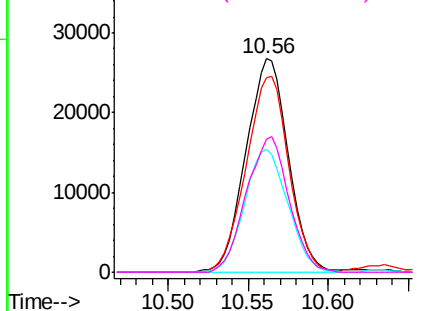
Abundance

Ion 96.90 (96.60 to 97.60): VN0

Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0

Ion 98.90 (98.60 to 99.60): VN0



#56

Ethyl methacrylate

Concen: 18.48 ug/l

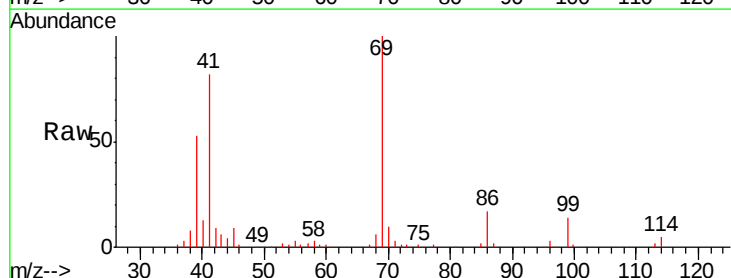
RT: 10.43 min Scan# 2692

Delta R.T. 0.00 min

Lab File: VN052334.D

Acq: 15 Nov 2018 11:16

Tgt Ion:	69	Resp:	63781
Ion	Ratio	Lower	Upper
69	100		
41	80.4	64.8	97.2
39	50.9	41.0	61.6

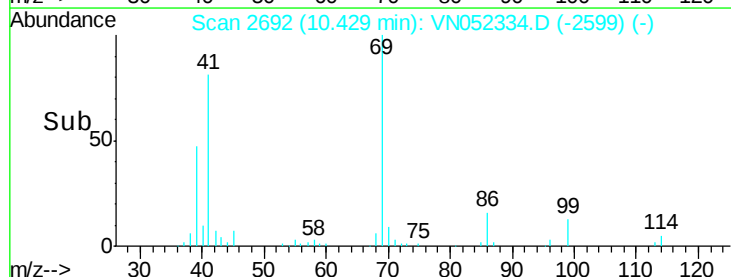
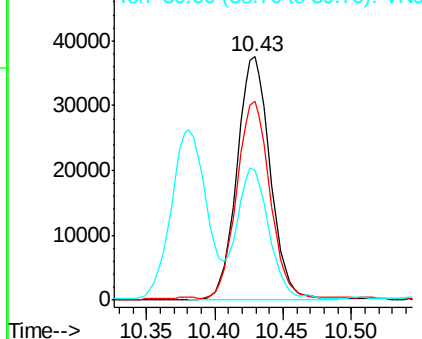


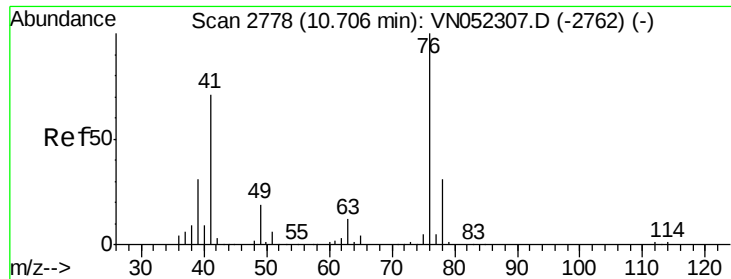
Abundance

Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





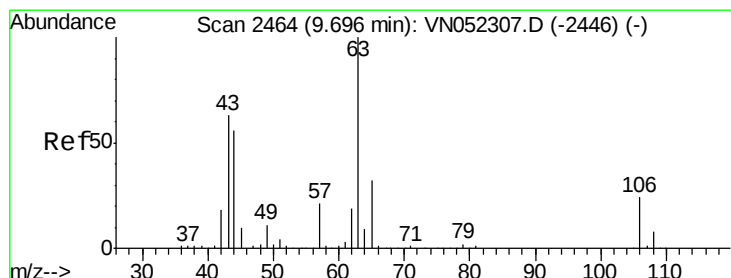
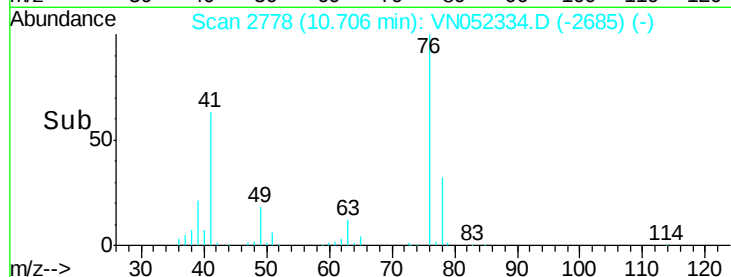
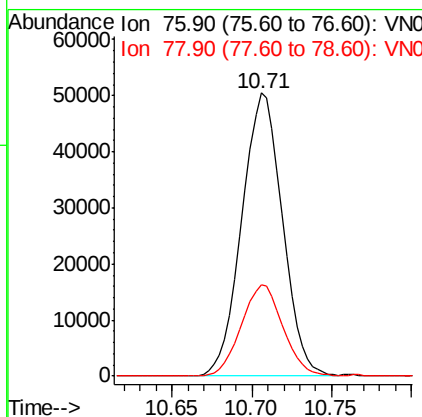
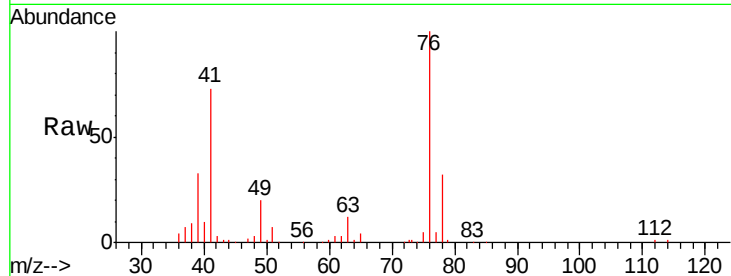
#57
 1,3-Dichloropropane
 Concen: 18.86 ug/l
 RT: 10.71 min Scan# 2778
 Delta R.T. 0.00 min
 Lab File: VN052334.D
 Acq: 15 Nov 2018 11:16

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1115WBSD01

Tgt Ion: 76 Resp: 87658
 Ion Ratio Lower Upper
 76 100
 78 32.9 25.7 38.5

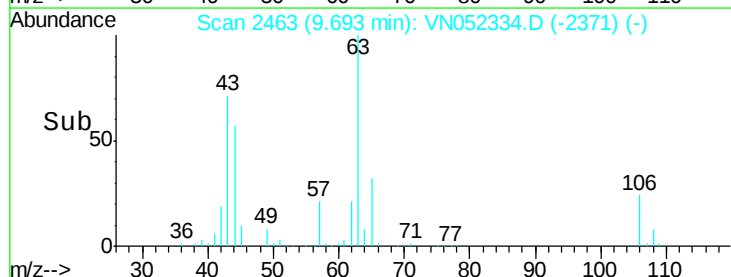
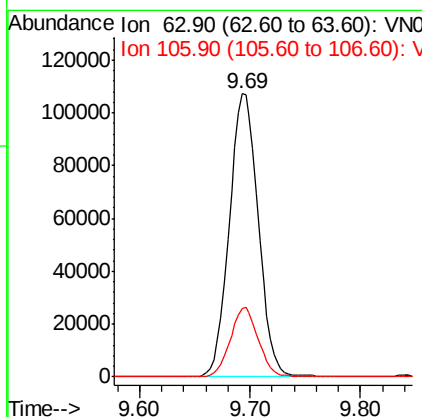
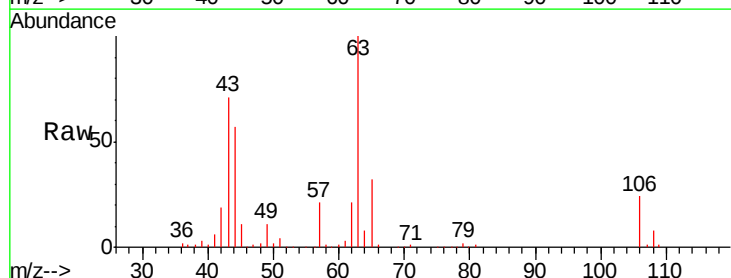
Manual Integrations
 APPROVED

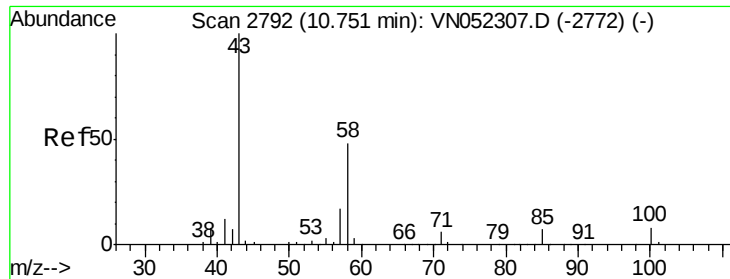
MMDadoda
 11/16/2018 4:06:57 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 99.57 ug/l
 RT: 9.69 min Scan# 2463
 Delta R.T. -0.00 min
 Lab File: VN052334.D
 Acq: 15 Nov 2018 11:16

Tgt Ion: 63 Resp: 195655
 Ion Ratio Lower Upper
 63 100
 106 23.6 19.3 28.9





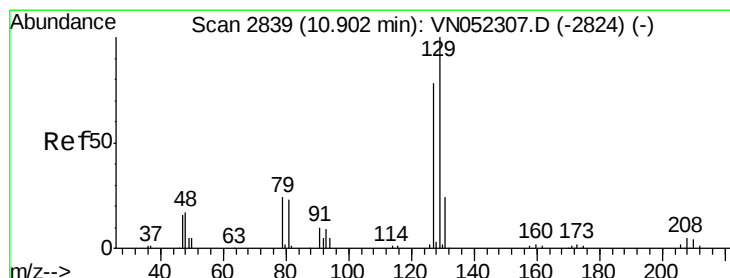
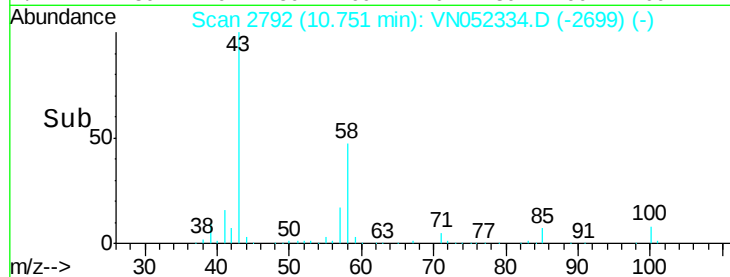
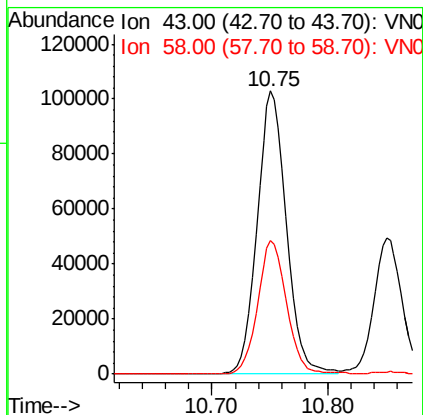
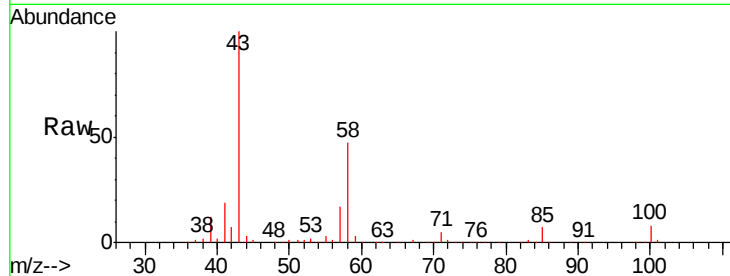
#59
2-Hexanone
Concen: 87.82 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN052334.D
Acq: 15 Nov 2018 11:16

Instrument :
MSVOA_N
ClientSampleId :
VN1115WBSD01

Tgt Ion: 43 Resp: 180395
Ion Ratio Lower Upper
43 100
58 46.7 23.5 70.6

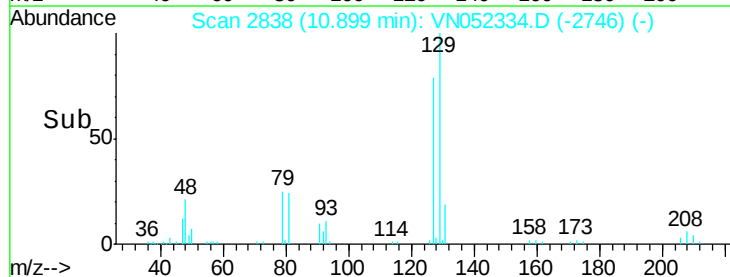
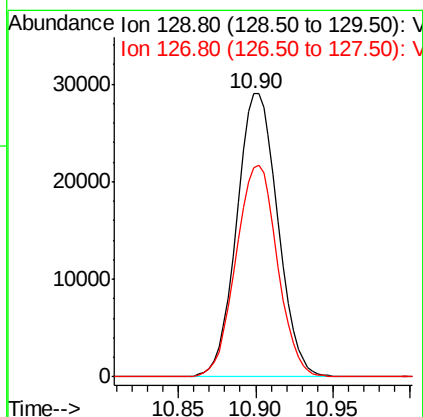
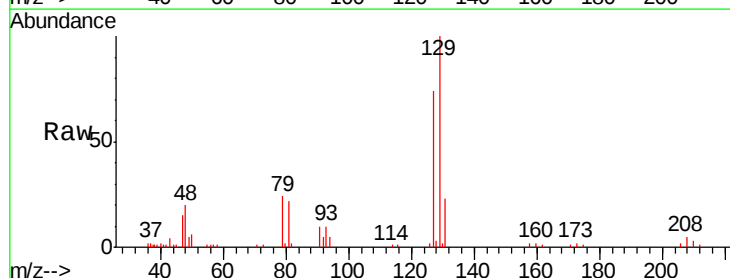
Manual Integrations
APPROVED

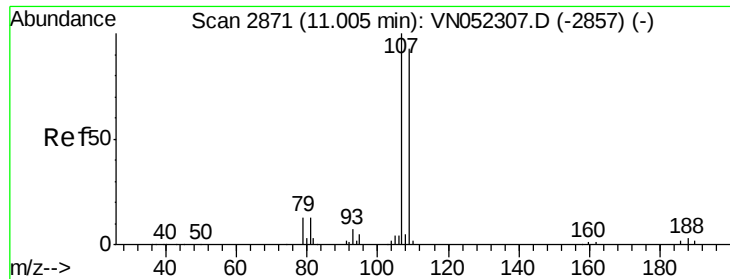
MMDadoda
11/16/2018 4:06:57 PM



#60
Dibromochloromethane
Concen: 18.89 ug/l
RT: 10.90 min Scan# 2838
Delta R.T. -0.00 min
Lab File: VN052334.D
Acq: 15 Nov 2018 11:16

Tgt Ion: 129 Resp: 53635
Ion Ratio Lower Upper
129 100
127 75.4 38.5 115.5





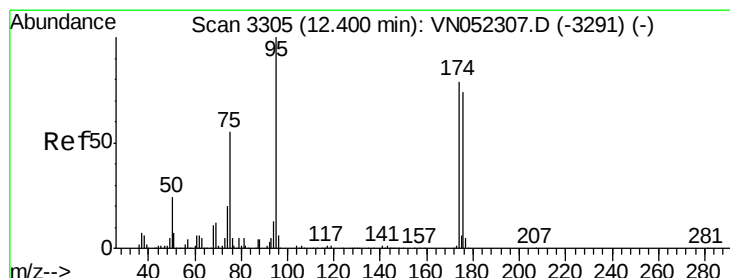
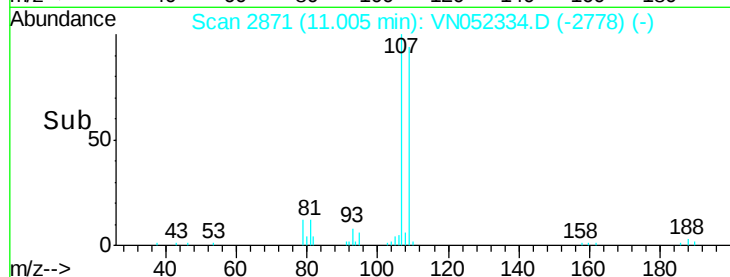
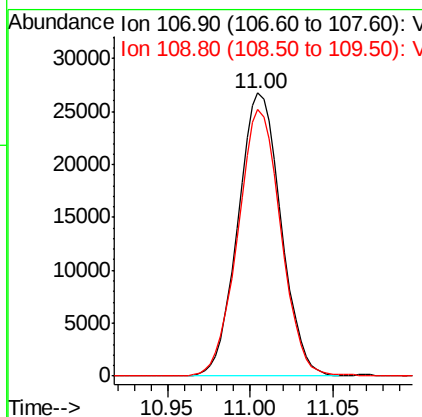
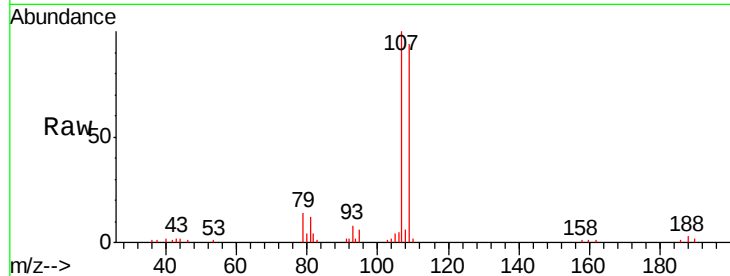
#61
 1,2-Dibromoethane
 Concen: 18.42 ug/l
 RT: 11.00 min Scan# 2871
 Delta R.T. 0.00 min
 Lab File: VN052334.D
 Acq: 15 Nov 2018 11:16

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1115WBSD01

Tgt Ion: 107 Resp: 48158
 Ion Ratio Lower Upper
 107 100
 109 94.4 74.9 112.3

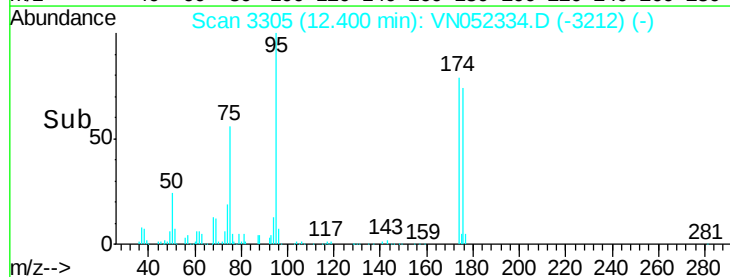
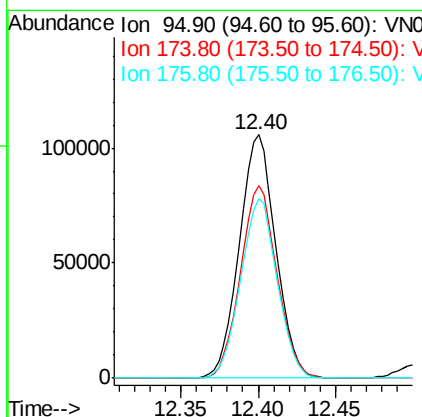
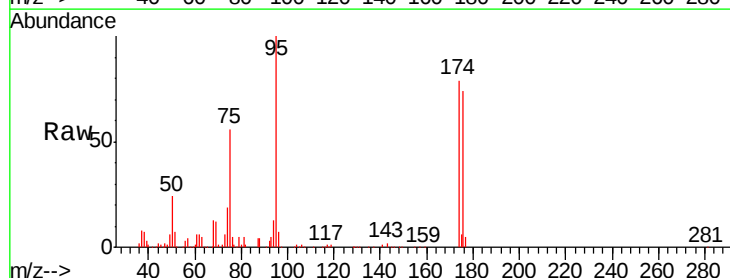
Manual Integrations
 APPROVED

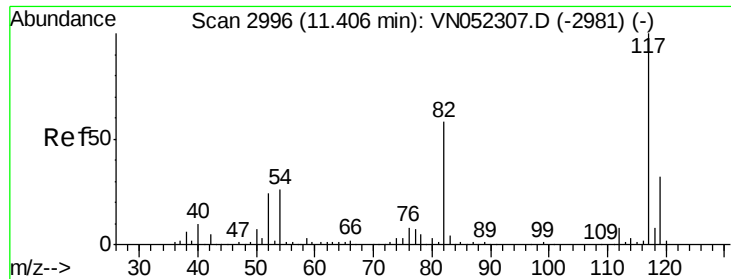
MMDadoda
 11/16/2018 4:06:57 PM



#62
 4-Bromofluorobenzene
 Concen: 18.42 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.00 min
 Lab File: VN052334.D
 Acq: 15 Nov 2018 11:16

Tgt Ion: 95 Resp: 173429
 Ion Ratio Lower Upper
 95 100
 174 79.2 0.0 156.0
 176 74.1 0.0 148.4





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN052334.D

Acq: 15 Nov 2018 11:16

Instrument :

MSVOA_N

ClientSampleId :

VN1115WBSD01

Tgt Ion:117 Resp: 376786

Ion Ratio Lower Upper

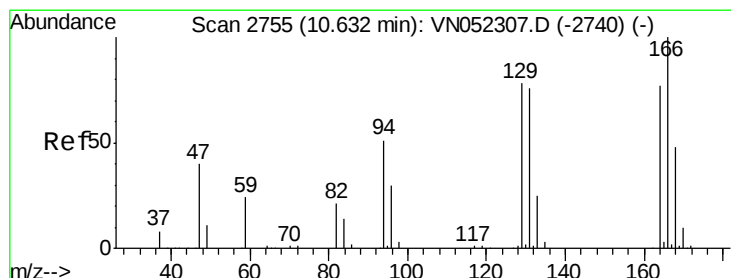
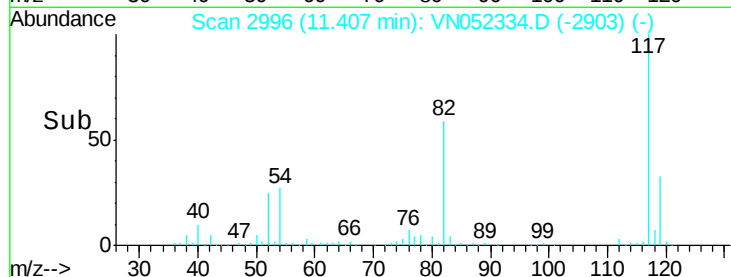
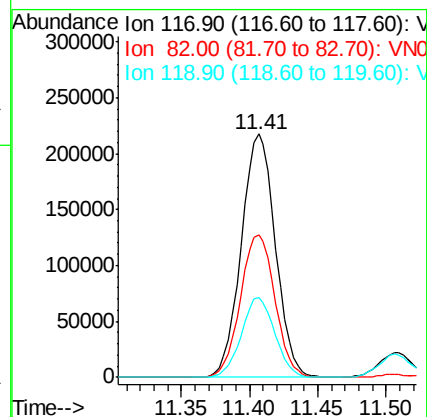
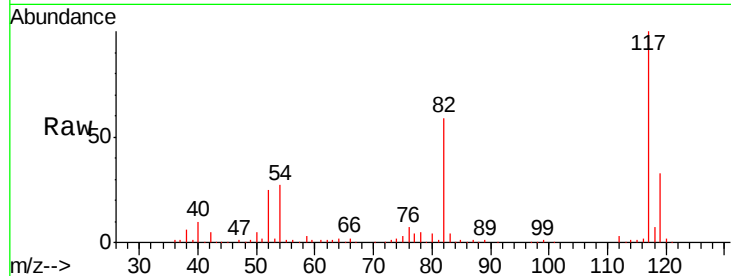
117 100

82 58.8 46.5 69.7

119 32.8 25.7 38.5

Manual Integrations
APPROVED

MMDadoda
11/16/2018 4:06:57 PM



#64

Tetrachloroethene

Concen: 18.42 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. 0.00 min

Lab File: VN052334.D

Acq: 15 Nov 2018 11:16

Tgt Ion:164 Resp: 49349

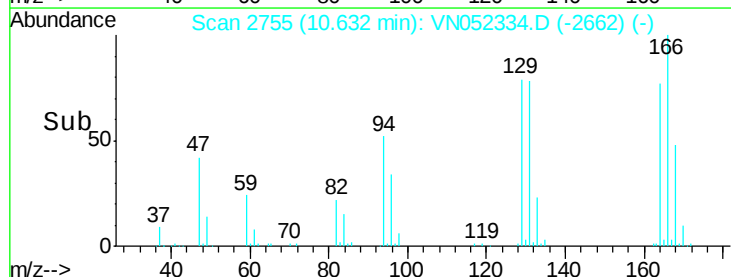
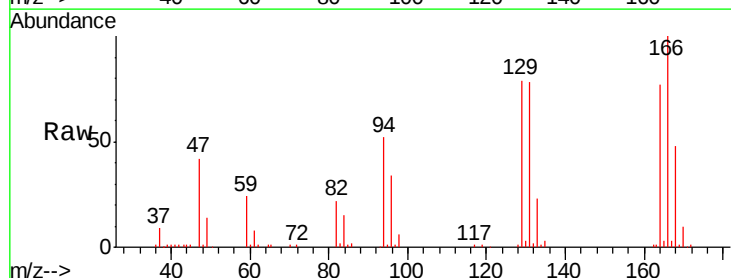
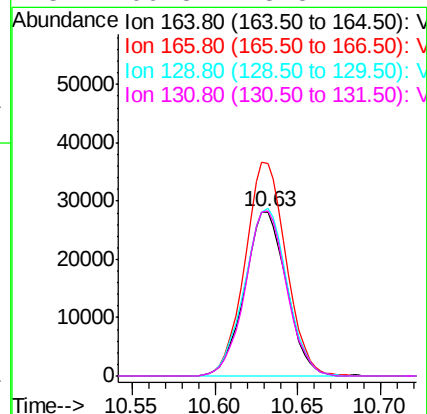
Ion Ratio Lower Upper

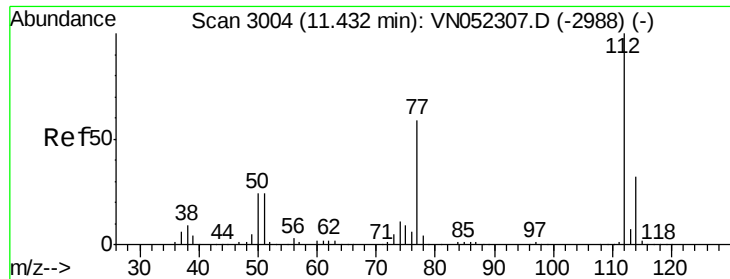
164 100

166 129.8 103.8 155.6

129 102.0 80.7 121.1

131 100.8 78.5 117.7





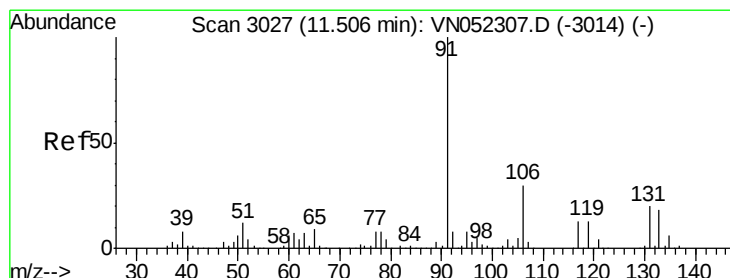
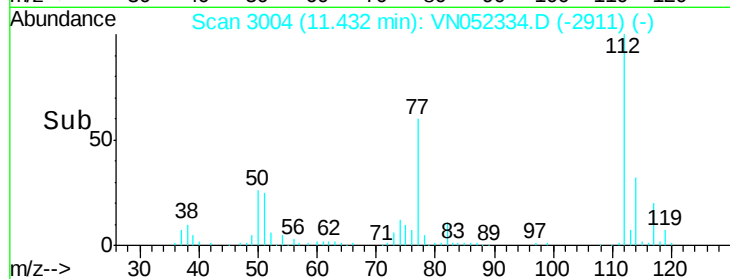
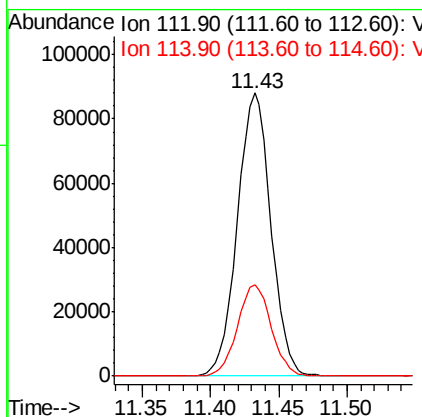
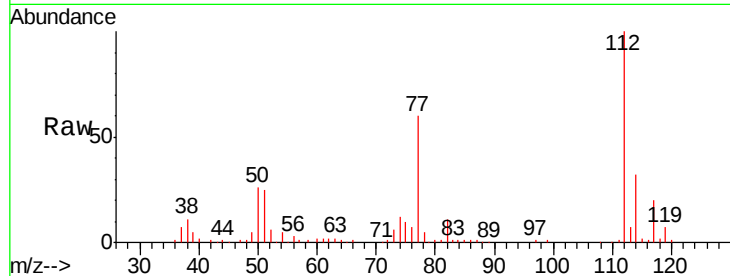
#65
Chlorobenzene
Concen: 18.86 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN052334.D
Acq: 15 Nov 2018 11:16

Instrument :
MSVOA_N
ClientSampleId :
VN1115WBSD01

Tgt Ion:112 Resp: 150202
Ion Ratio Lower Upper
112 100
114 32.1 25.9 38.9

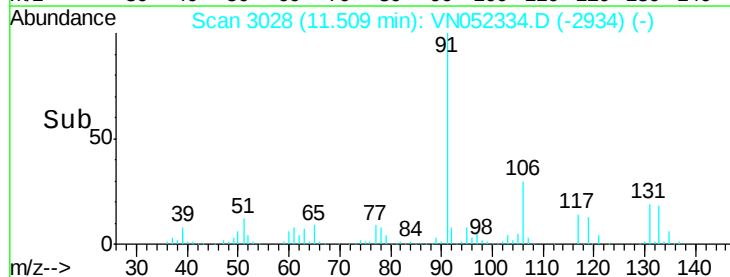
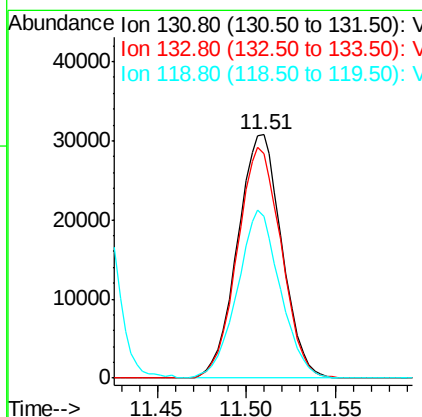
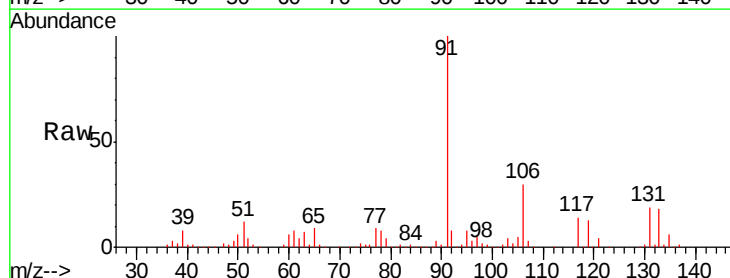
Manual Integrations
APPROVED

MMDadoda
11/16/2018 4:06:57 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 19.64 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN052334.D
Acq: 15 Nov 2018 11:16

Tgt Ion:131 Resp: 53332
Ion Ratio Lower Upper
131 100
133 94.0 47.4 142.3
119 66.9 33.3 99.9





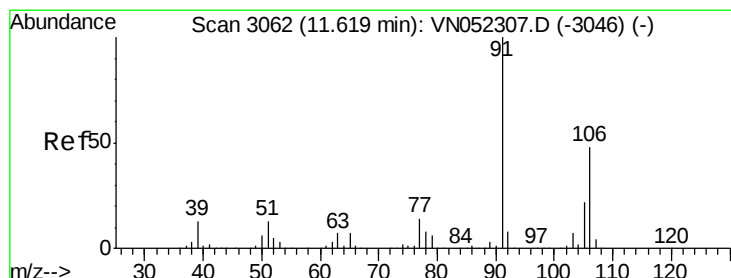
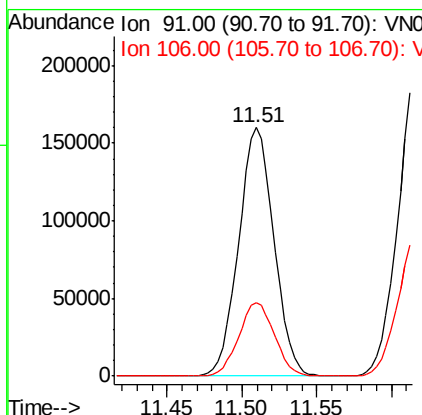
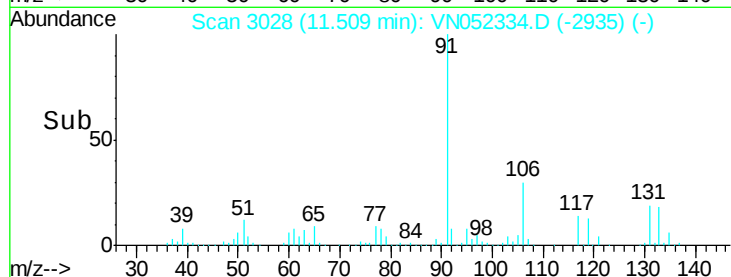
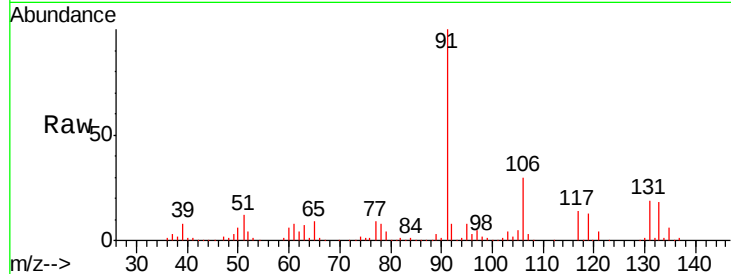
#67
Ethyl Benzene
Concen: 19.02 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN052334.D
Acq: 15 Nov 2018 11:16

Instrument :
MSVOA_N
ClientSampleId :
VN1115WBSD01

Tgt Ion: 91 Resp: 262939
Ion Ratio Lower Upper
91 100
106 29.8 24.2 36.2

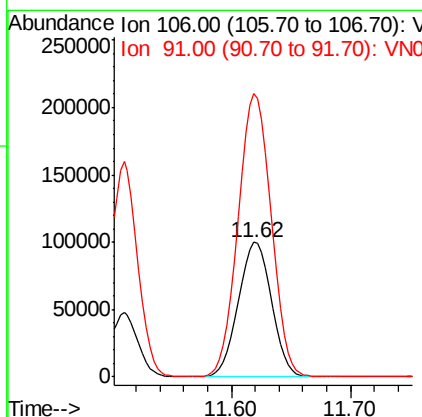
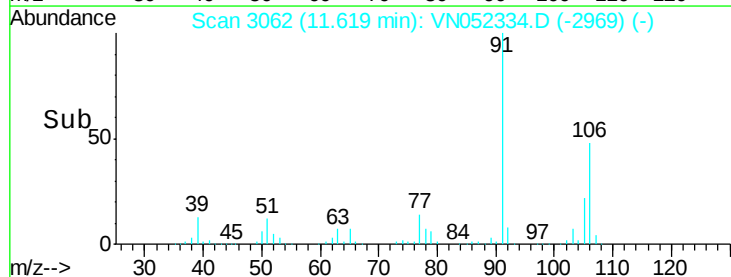
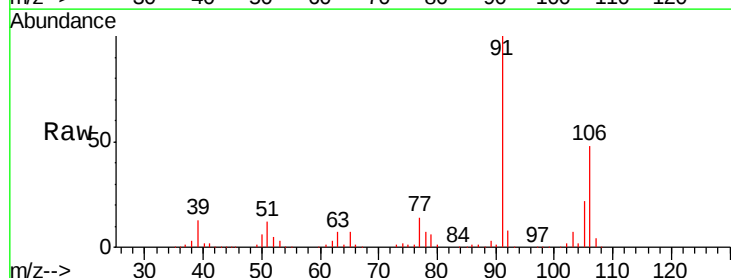
Manual Integrations
APPROVED

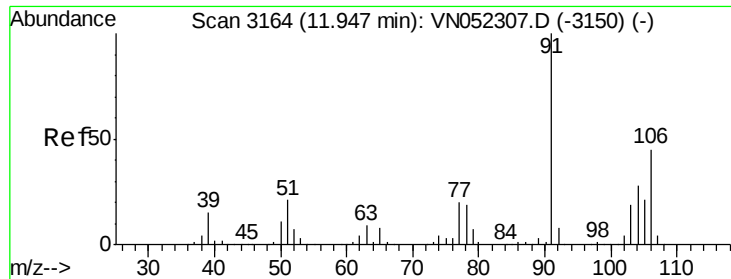
MMDadoda
11/16/2018 4:06:57 PM



#68
m/p-Xylenes
Concen: 38.35 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. 0.00 min
Lab File: VN052334.D
Acq: 15 Nov 2018 11:16

Tgt Ion: 106 Resp: 193691
Ion Ratio Lower Upper
106 100
91 209.5 165.5 248.3





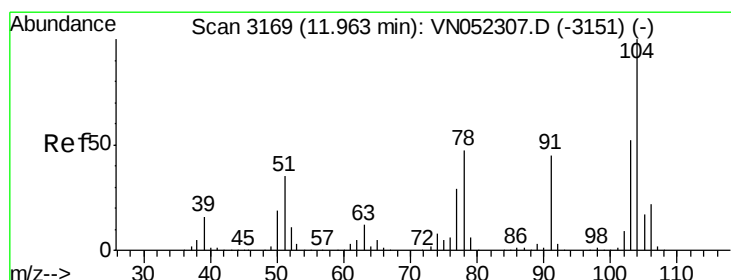
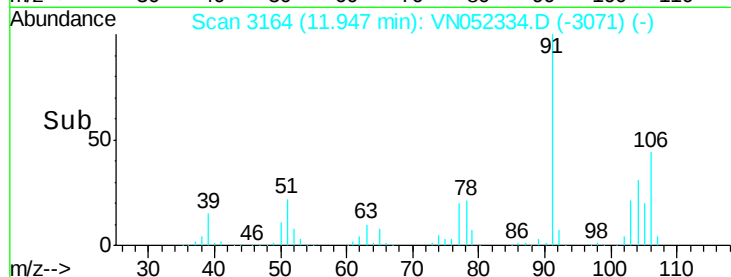
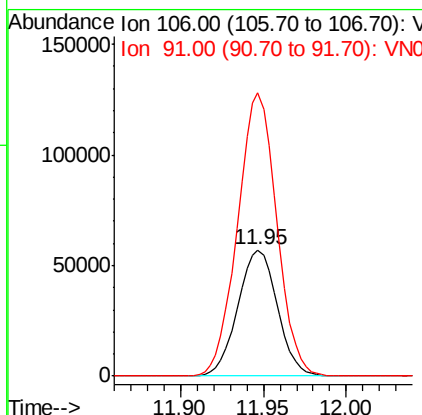
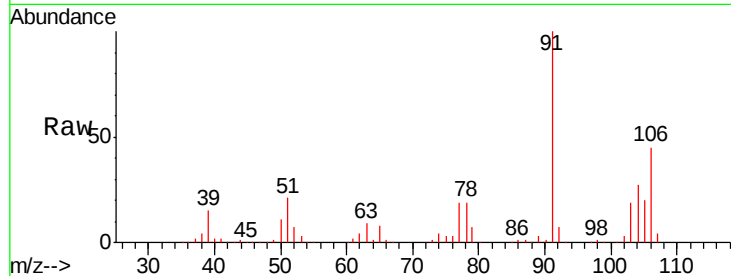
#69
o-Xylene
Concen: 19.54 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN052334.D
Acq: 15 Nov 2018 11:16

Instrument :
MSVOA_N
ClientSampleId :
VN1115WBSD01

Tgt Ion:106 Resp: 94589
Ion Ratio Lower Upper
106 100
91 222.0 110.0 330.0

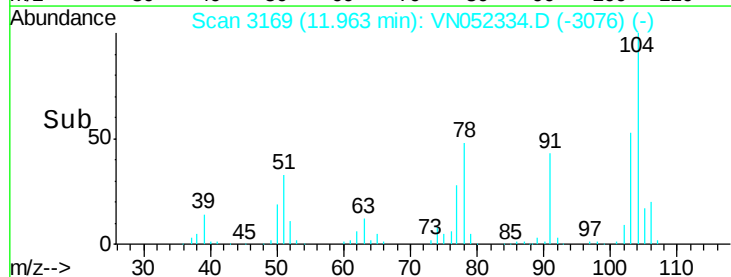
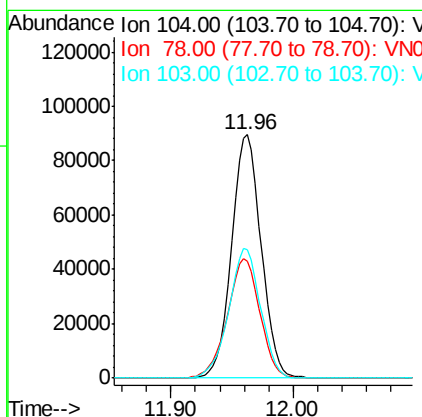
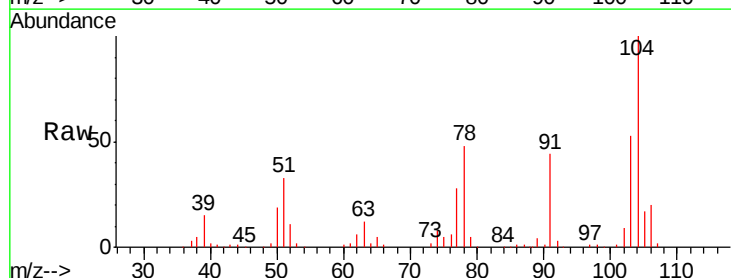
Manual Integrations
APPROVED

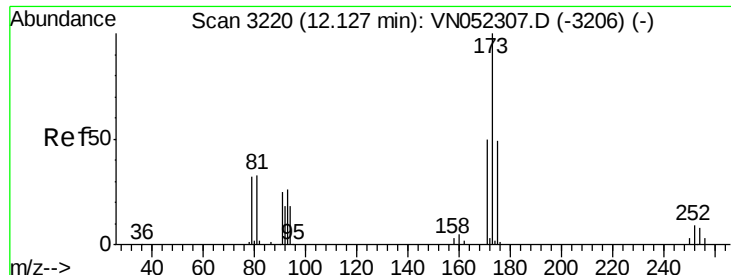
MMDadoda
11/16/2018 4:06:57 PM



#70
Styrene
Concen: 19.46 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN052334.D
Acq: 15 Nov 2018 11:16

Tgt Ion:104 Resp: 150818
Ion Ratio Lower Upper
104 100
78 54.5 42.7 64.1
103 57.5 45.4 68.0





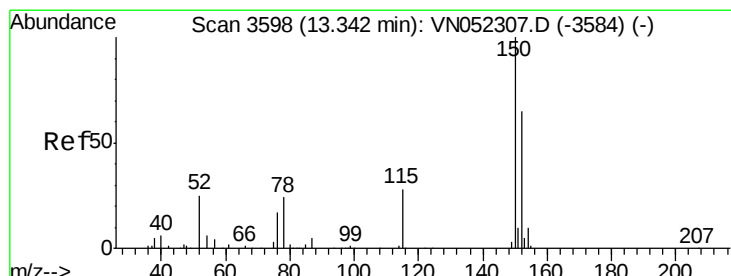
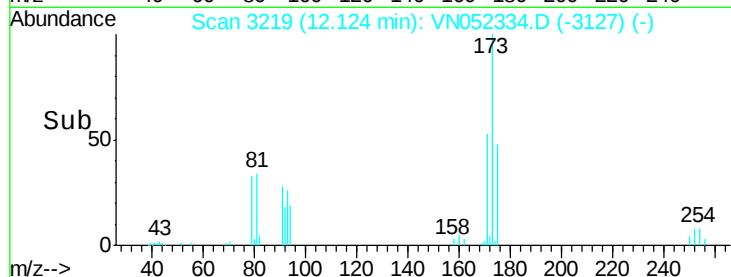
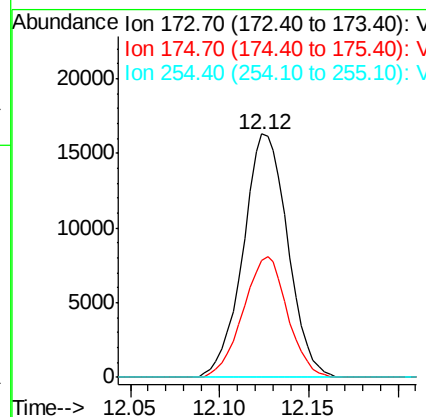
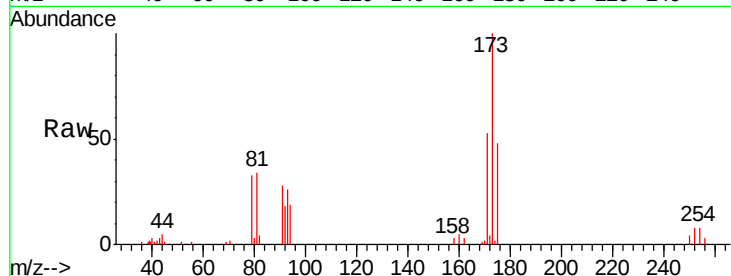
#71
Bromoform
Concen: 17.80 ug/l
RT: 12.12 min Scan# 3219
Delta R.T. -0.00 min
Lab File: VN052334.D
Acq: 15 Nov 2018 11:16

Instrument :
MSVOA_N
ClientSampleId :
VN1115WBSD01

Tgt Ion	Ratio	Lower	Upper
173	100		
175	49.1	25.0	75.0
254	0.0	0.0	0.0

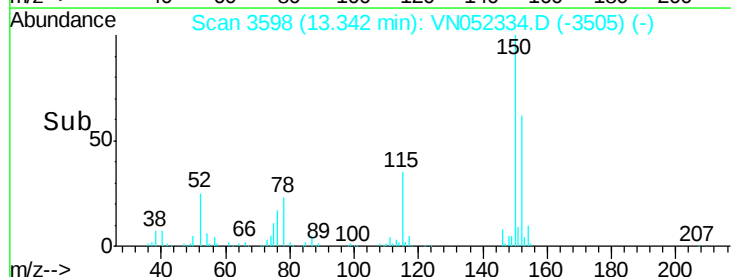
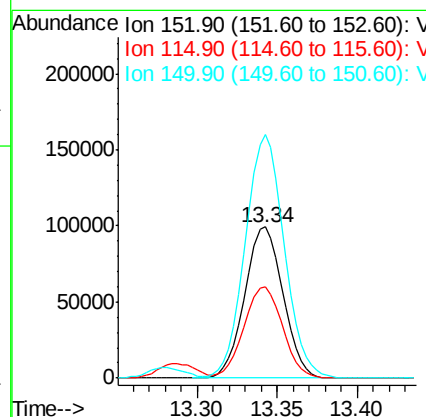
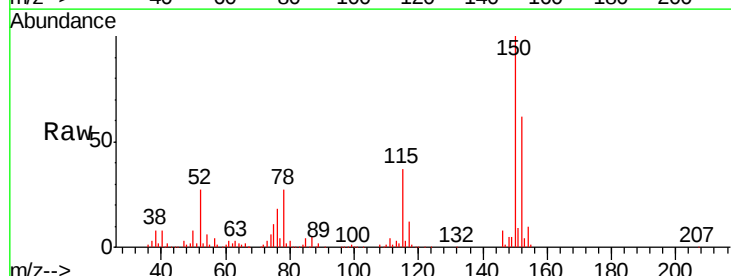
Manual Integrations
APPROVED

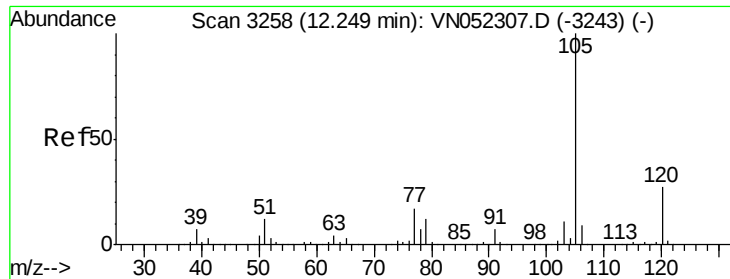
MMDadoda
11/16/2018 4:06:57 PM



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN052334.D
Acq: 15 Nov 2018 11:16

Tgt Ion	Ratio	Lower	Upper
152	100		
115	61.1	30.3	91.0
150	164.2	0.0	348.2





#73

Isopropylbenzene

Concen: 19.20 ug/l

RT: 12.25 min Scan# 3257

Delta R.T. -0.00 min

Lab File: VN052334.D

Acq: 15 Nov 2018 11:16

Instrument :

MSVOA_N

ClientSampleId :

VN1115WBSD01

Tgt Ion: 105 Resp: 249792

Ion Ratio Lower Upper

105 100

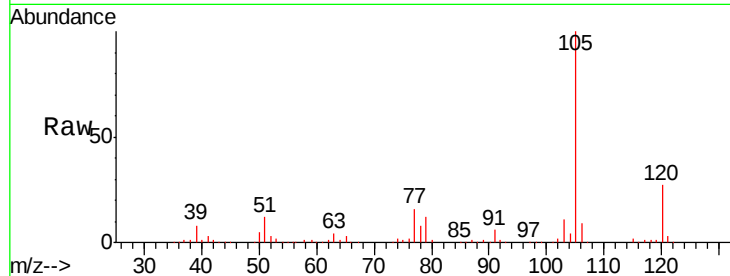
120 26.7 13.4 40.1

Manual Integrations

APPROVED

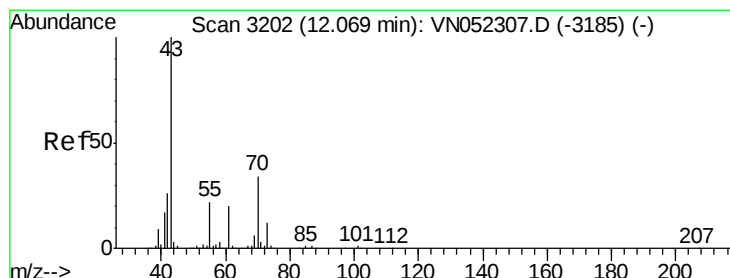
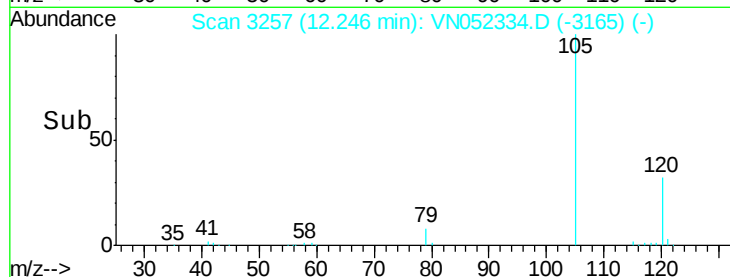
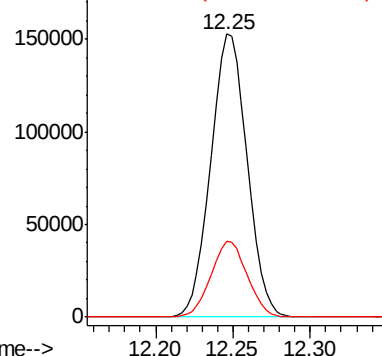
MMDadoda

11/16/2018 4:06:57 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 18.35 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN052334.D

Acq: 15 Nov 2018 11:16

Tgt Ion: 43 Resp: 85055

Ion Ratio Lower Upper

43 100

70 33.1 27.1 40.7

55 23.0 17.4 26.0

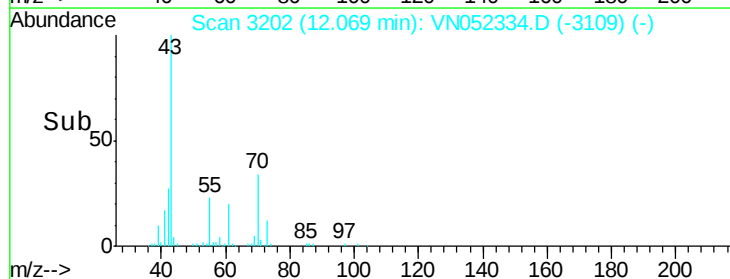
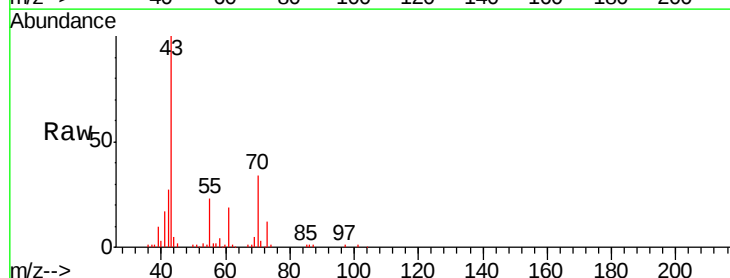
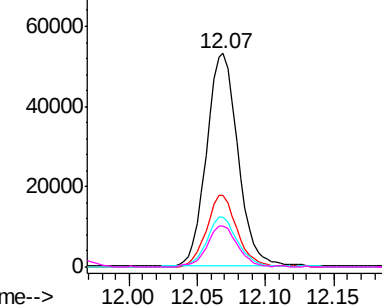
61 18.8 16.1 24.1

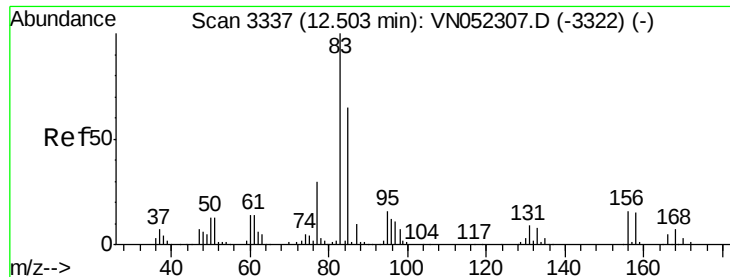
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: 18.48 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN052334.D

Acq: 15 Nov 2018 11:16

Instrument :

MSVOA_N

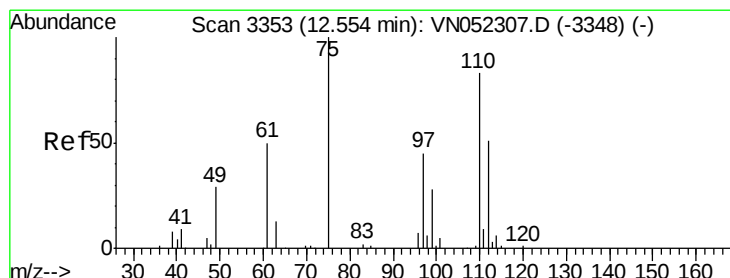
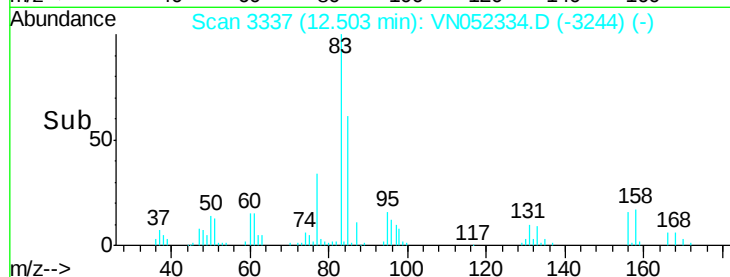
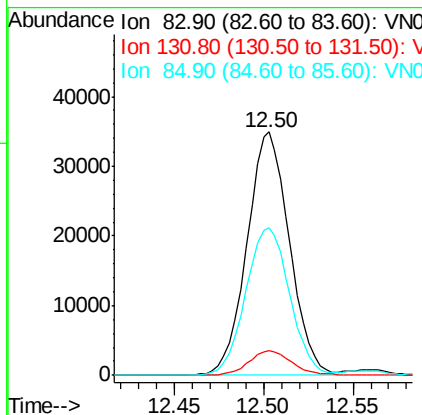
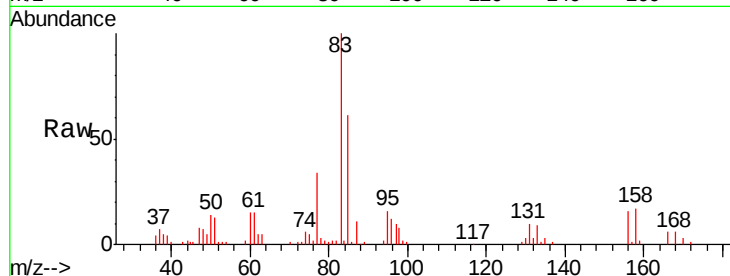
ClientSampleId :

VN1115WBSD01

Tgt Ion:	83	Resp:	58136
Ion	Ratio	Lower	Upper
83	100		
131	10.1	4.7	14.1
85	62.6	32.4	97.2

Manual Integrations
APPROVED

MMDadoda
11/16/2018 4:06:57 PM



#76

1,2,3-Trichloropropane

Concen: 17.43 ug/l m

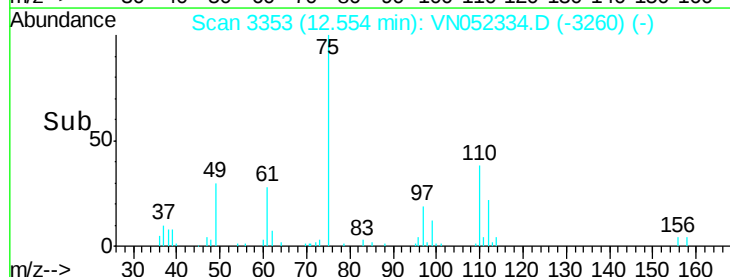
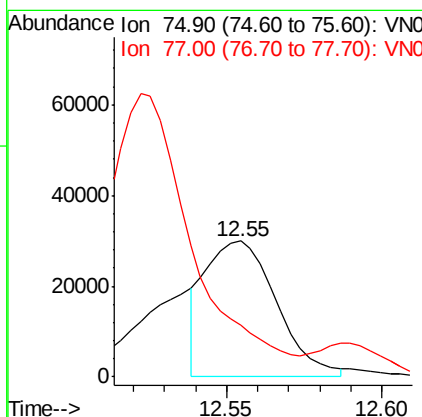
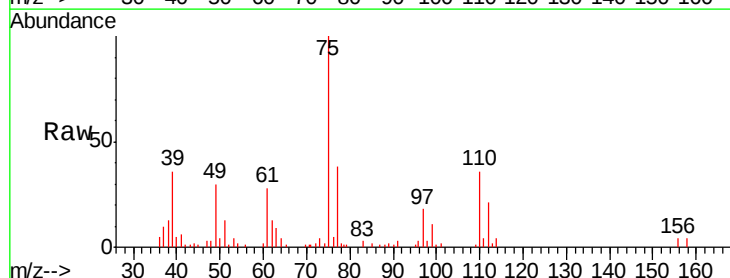
RT: 12.55 min Scan# 3353

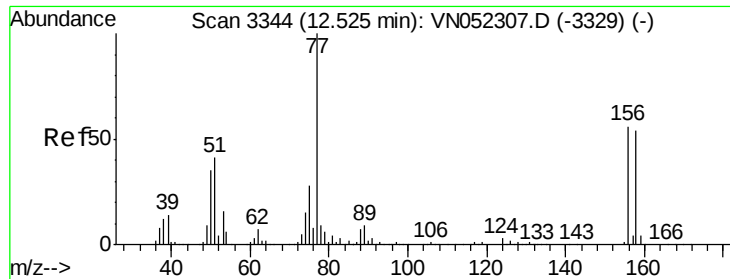
Delta R.T. 0.00 min

Lab File: VN052334.D

Acq: 15 Nov 2018 11:16

Tgt Ion:	75	Resp:	47862
Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 19.19 ug/l

RT: 12.52 min Scan# 3343

Delta R.T. -0.00 min

Lab File: VN052334.D

Acq: 15 Nov 2018 11:16

Instrument :

MSVOA_N

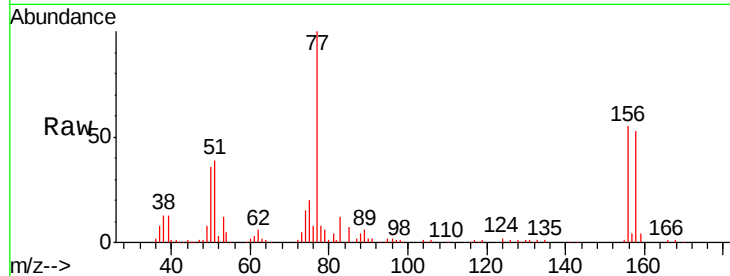
ClientSampleId :

VN1115WBSD01

Tgt Ion	Ratio	Lower	Upper
156	100		
77	211.1	103.6	310.9
158	97.6	48.1	144.4

Manual Integrations
APPROVED

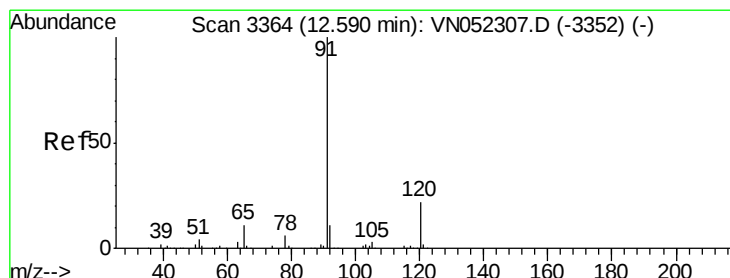
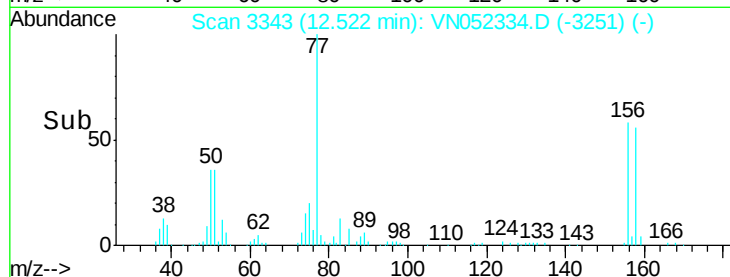
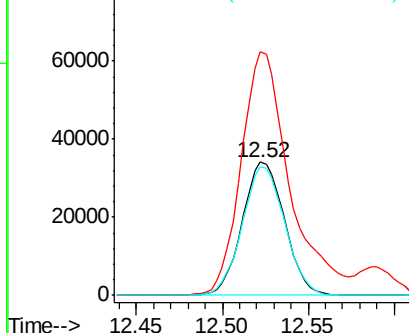
MMDadoda
11/16/2018 4:06:57 PM



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 18.96 ug/l

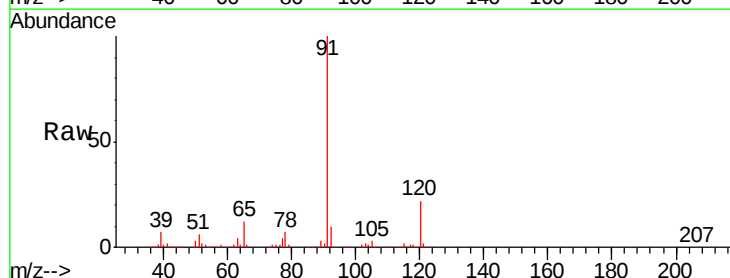
RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN052334.D

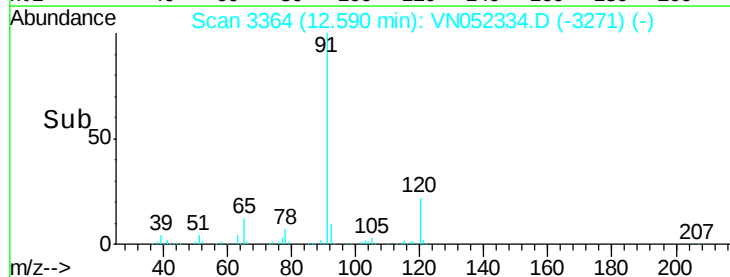
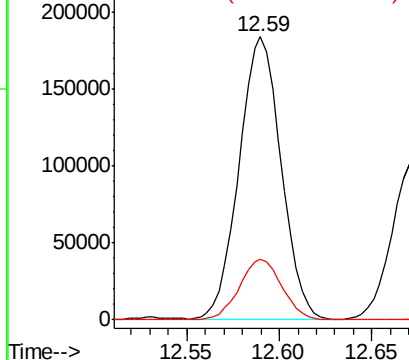
Acq: 15 Nov 2018 11:16

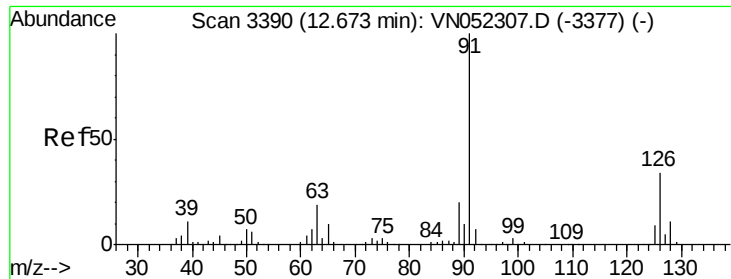
Tgt Ion	Ratio	Lower	Upper
91	100		
120	21.7	11.1	33.1



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 19.30 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN052334.D

Acq: 15 Nov 2018 11:16

Instrument :

MSVOA_N

ClientSampleId :

VN1115WBSD01

Tgt Ion: 91 Resp: 171581

Ion Ratio Lower Upper

91 100

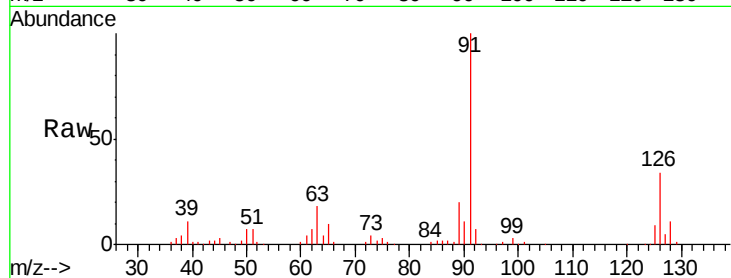
126 33.5 17.0 51.0

Manual Integrations

APPROVED

MMDadoda

11/16/2018 4:06:57 PM



Abundance Ion 91.00 (90.70 to 91.70): VN052334.D (-3297) (-)

Ion 125.90 (125.60 to 126.60): VN052334.D (-3297) (-)

200000

150000

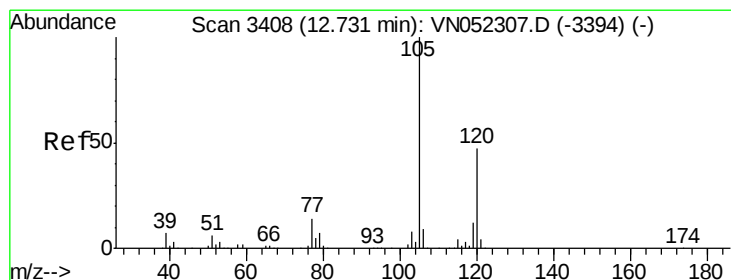
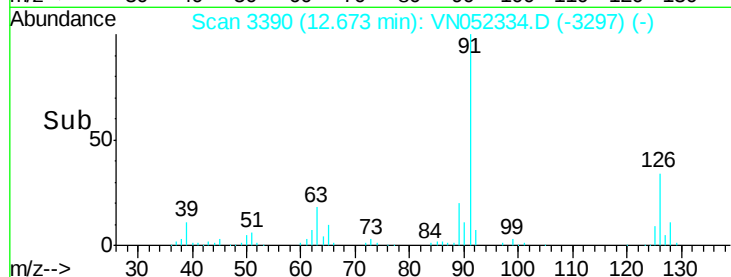
100000

50000

0

12.60 12.65 12.70

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 20.06 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN052334.D

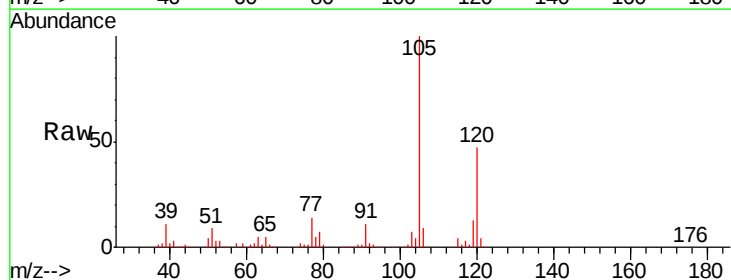
Acq: 15 Nov 2018 11:16

Tgt Ion: 105 Resp: 207577

Ion Ratio Lower Upper

105 100

120 47.1 23.7 71.1



Abundance Ion 105.00 (104.70 to 105.70): VN052334.D (-3315) (-)

Ion 120.00 (119.70 to 120.70): VN052334.D (-3315) (-)

150000

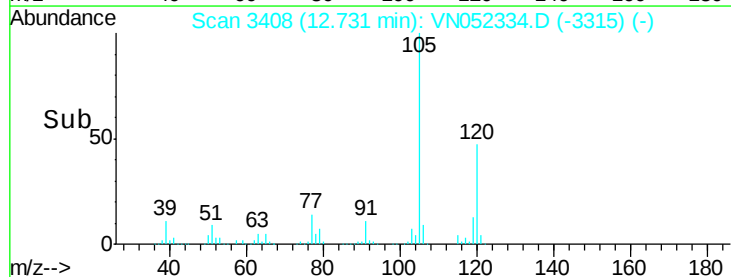
100000

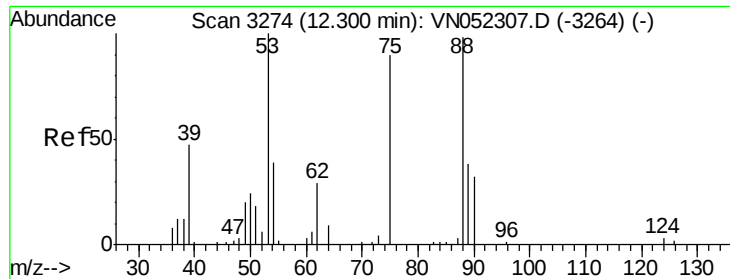
50000

0

12.65 12.70 12.75 12.80

Time-->





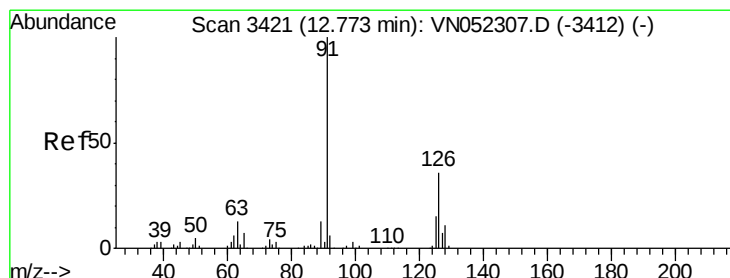
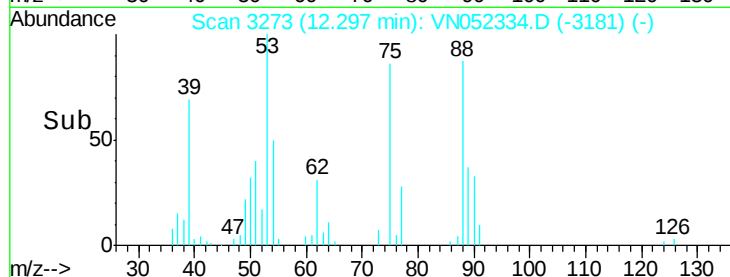
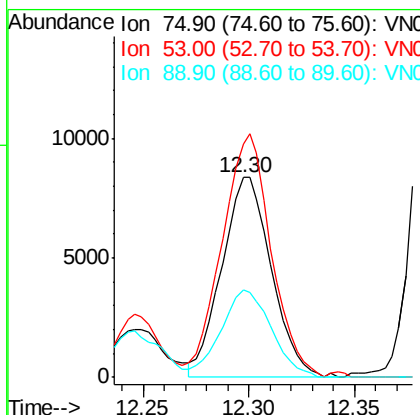
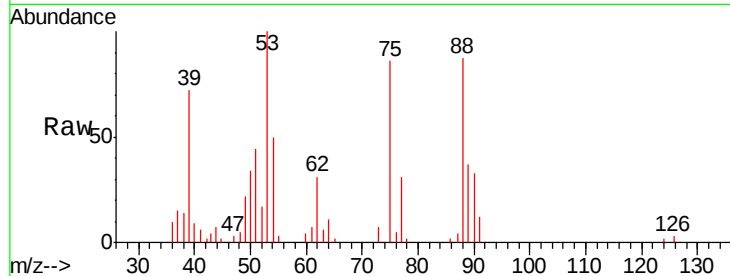
#81
trans-1,4-Dichloro-2-butene
Concen: 16.14 ug/l
RT: 12.30 min Scan# 3273
Delta R.T. -0.00 min
Lab File: VN052334.D
Acq: 15 Nov 2018 11:16

Instrument :
MSVOA_N
ClientSampleId :
VN1115WBSD01

Tgt Ion	Ratio	Lower	Upper
75	100		
53	121.0	90.2	135.2
89	44.3	35.4	53.0

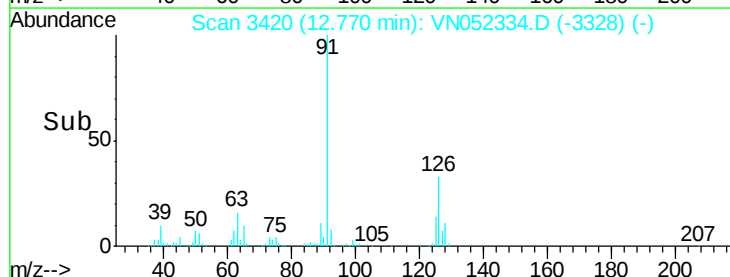
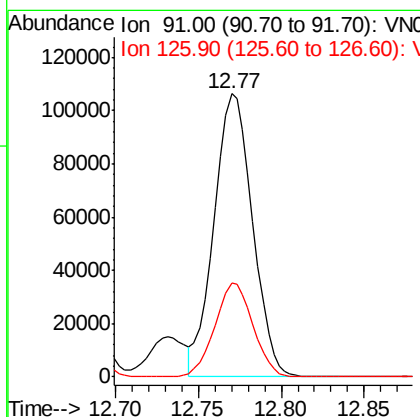
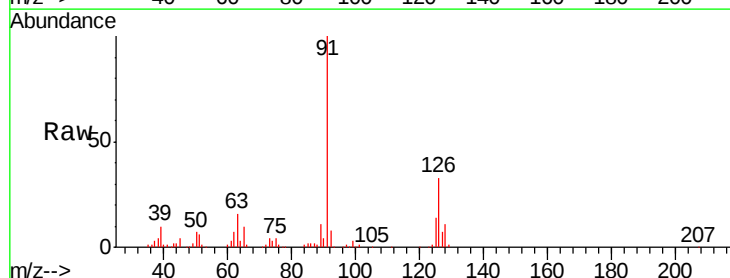
Manual Integrations
APPROVED

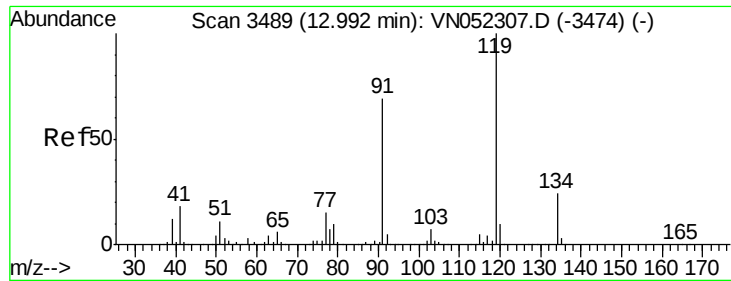
MMDadoda
11/16/2018 4:06:57 PM



#82
4-Chlorotoluene
Concen: 18.88 ug/l
RT: 12.77 min Scan# 3420
Delta R.T. -0.00 min
Lab File: VN052334.D
Acq: 15 Nov 2018 11:16

Tgt Ion	Ratio	Lower	Upper
91	100		
126	32.8	17.0	50.9





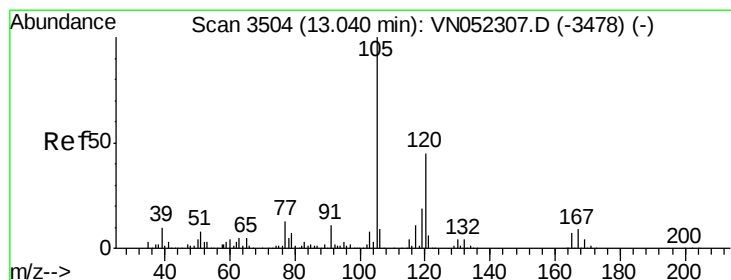
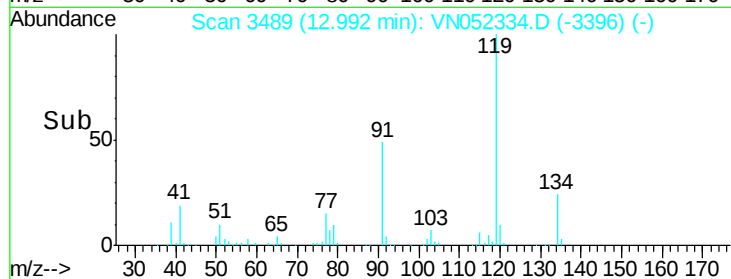
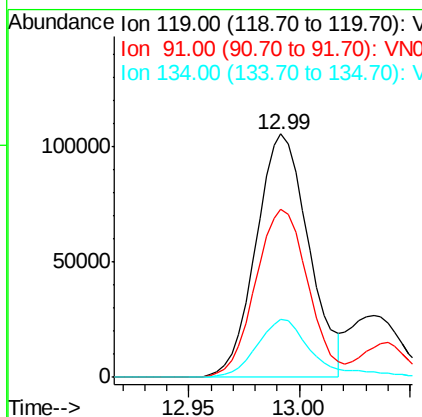
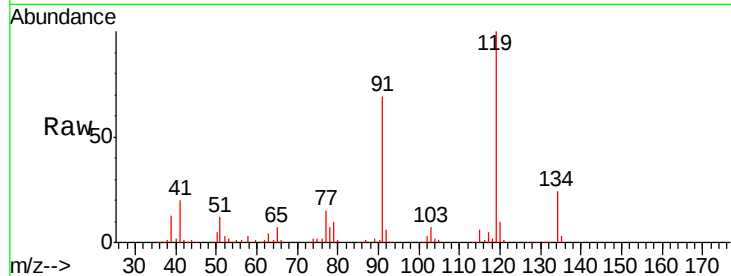
#83
 tert-Butylbenzene
 Concen: 19.09 ug/l
 RT: 12.99 min Scan# 3489
 Delta R.T. 0.00 min
 Lab File: VN052334.D
 Acq: 15 Nov 2018 11:16

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1115WBSD01

Tgt Ion	Ratio	Lower	Upper
119	100		
91	69.1	33.8	101.3
134	25.4	11.9	35.9

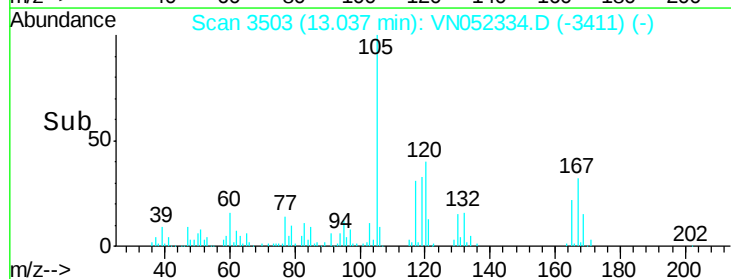
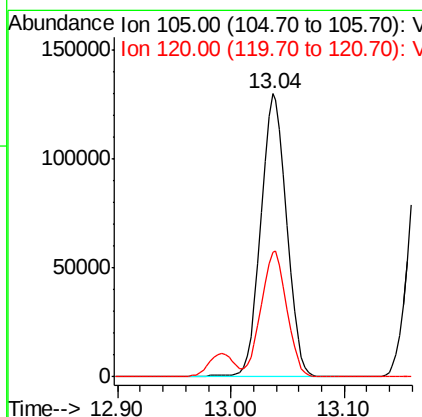
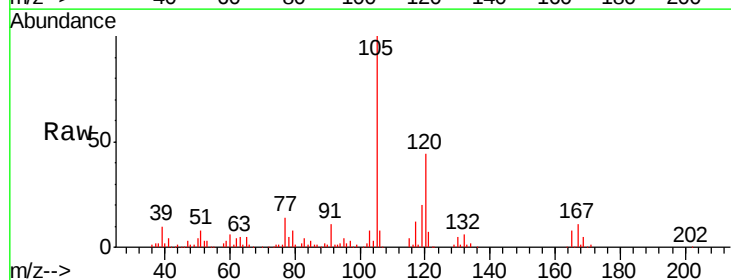
Manual Integrations
 APPROVED

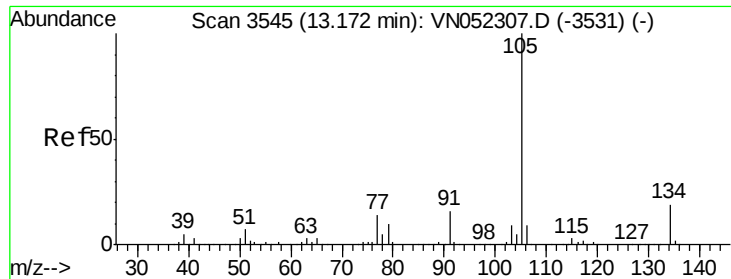
MMDadoda
 11/16/2018 4:06:57 PM



#84
 1,2,4-Trimethylbenzene
 Concen: 19.85 ug/l
 RT: 13.04 min Scan# 3503
 Delta R.T. -0.00 min
 Lab File: VN052334.D
 Acq: 15 Nov 2018 11:16

Tgt Ion	Ratio	Lower	Upper
105	100		
120	44.0	22.5	67.5





#85

sec-Butylbenzene

Concen: 19.16 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN052334.D

Acq: 15 Nov 2018 11:16

Instrument :

MSVOA_N

ClientSampleId :

VN1115WBSD01

Tgt Ion:105 Resp: 238454

Ion Ratio Lower Upper

105 100

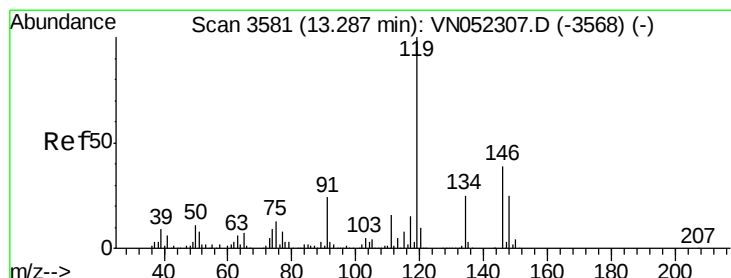
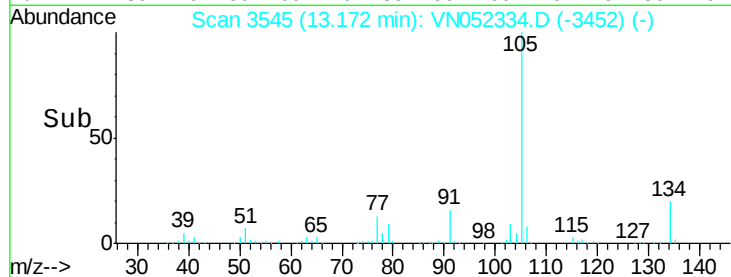
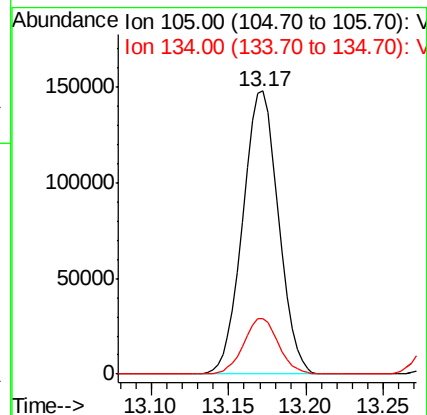
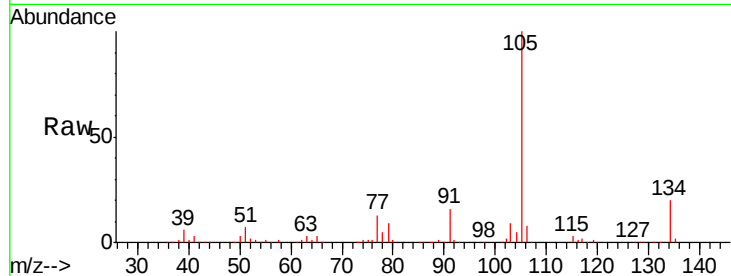
134 19.1 9.5 28.5

Manual Integrations

APPROVED

MMDadoda

11/16/2018 4:06:57 PM



#86

p-Isopropyltoluene

Concen: 18.81 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.00 min

Lab File: VN052334.D

Acq: 15 Nov 2018 11:16

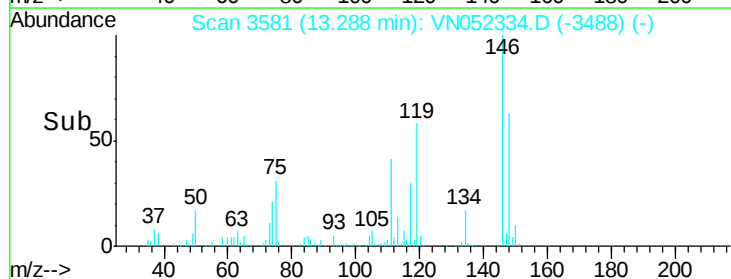
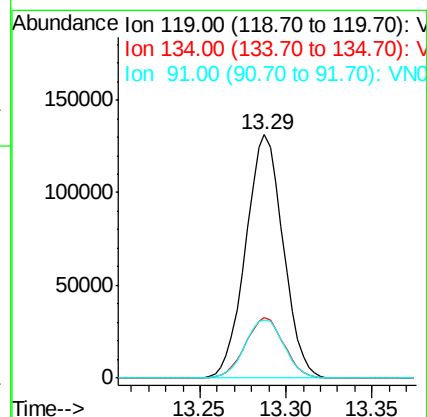
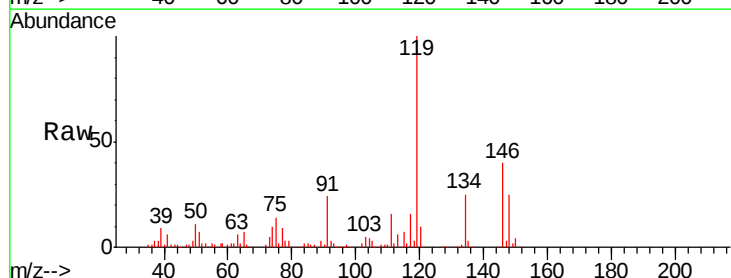
Tgt Ion:119 Resp: 198234

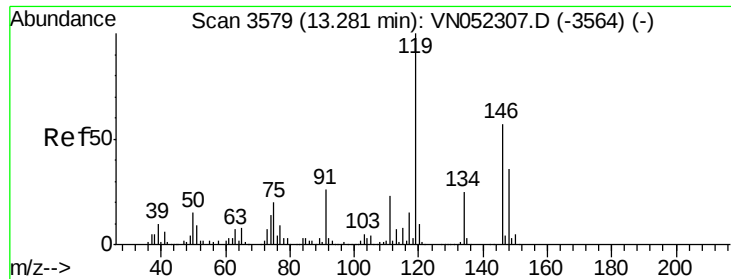
Ion Ratio Lower Upper

119 100

134 25.5 13.0 38.9

91 25.1 12.4 37.0





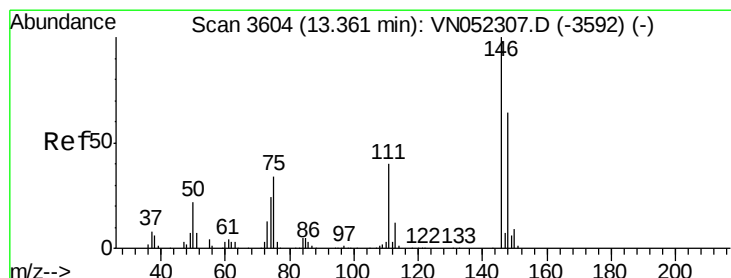
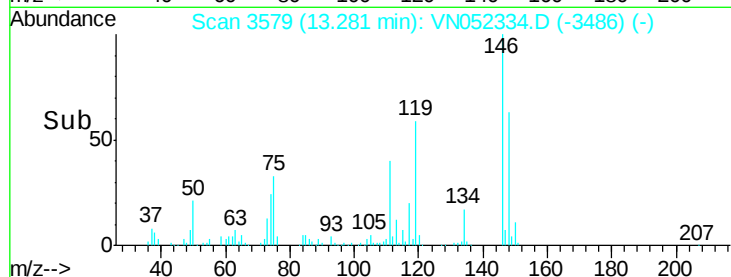
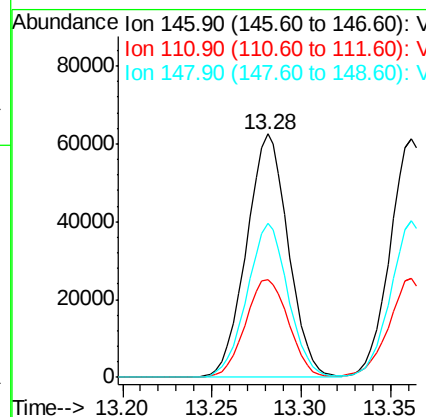
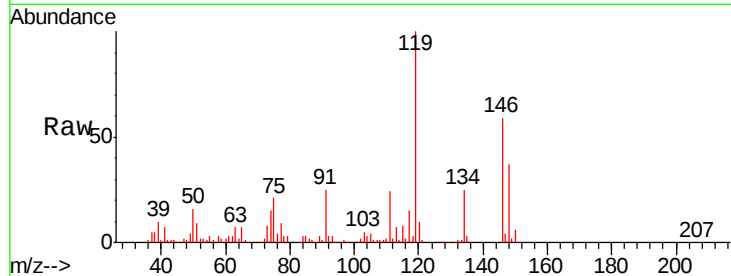
#87
 1,3-Dichlorobenzene
 Concen: 19.06 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. 0.00 min
 Lab File: VN052334.D
 Acq: 15 Nov 2018 11:16

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1115WBSD01

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	102500		
111	41.6	20.3	61.0	
148	62.3	31.8	95.4	

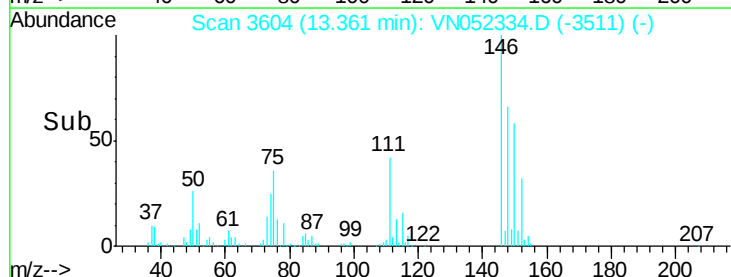
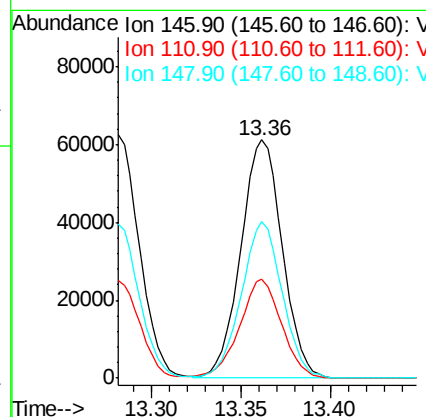
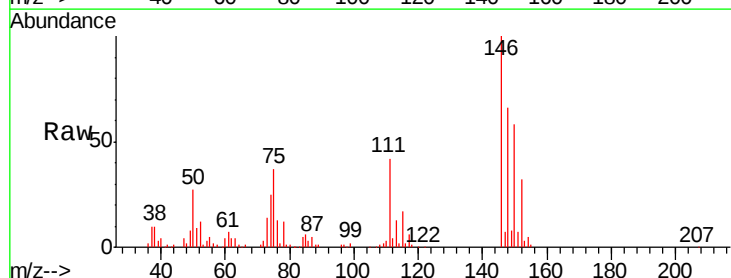
Manual Integrations
 APPROVED

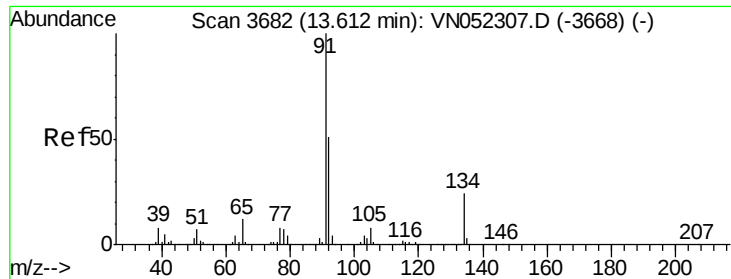
MMDadoda
 11/16/2018 4:06:57 PM



#88
 1,4-Dichlorobenzene
 Concen: 18.62 ug/l
 RT: 13.36 min Scan# 3604
 Delta R.T. 0.00 min
 Lab File: VN052334.D
 Acq: 15 Nov 2018 11:16

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	99509		
111	42.0	20.6	61.8	
148	64.7	32.4	97.2	





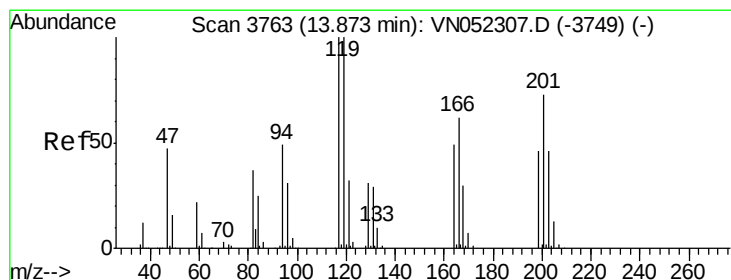
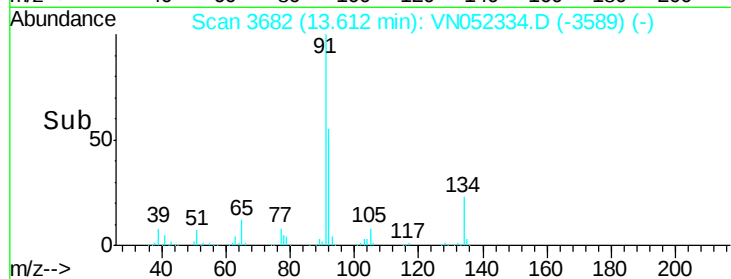
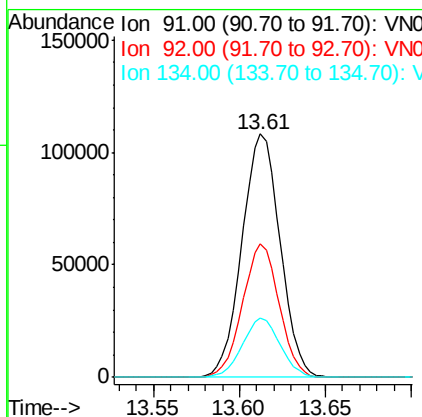
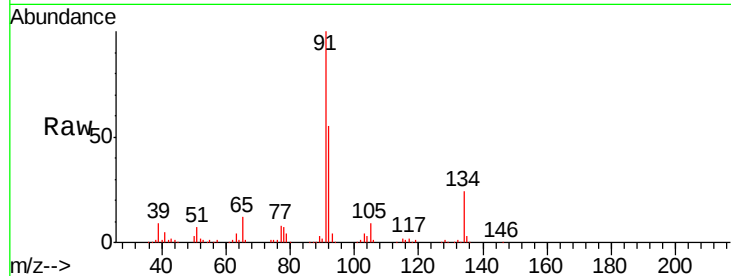
#89
n-Butylbenzene
Concen: 18.43 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. 0.00 min
Lab File: VN052334.D
Acq: 15 Nov 2018 11:16

Instrument :
MSVOA_N
ClientSampleId :
VN1115WBSD01

Tgt Ion	Ratio	Lower	Upper
91	100		
92	52.6	25.4	76.2
134	24.0	12.2	36.4

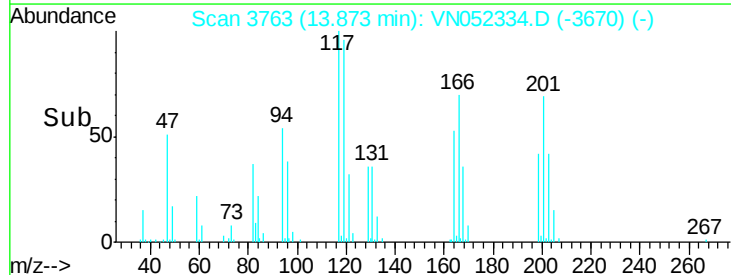
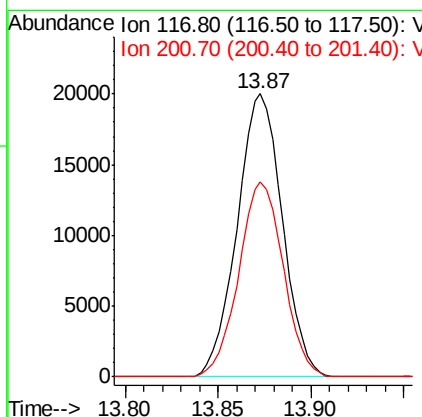
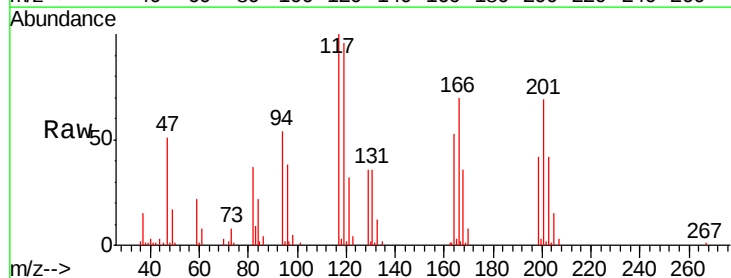
Manual Integrations
APPROVED

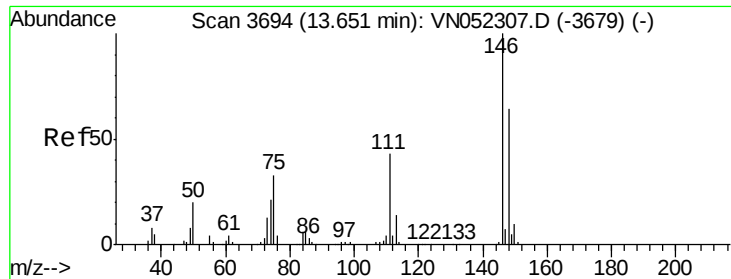
MMDadoda
11/16/2018 4:06:57 PM



#90
Hexachloroethane
Concen: 18.18 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. 0.00 min
Lab File: VN052334.D
Acq: 15 Nov 2018 11:16

Tgt Ion	Ratio	Lower	Upper
117	100		
201	68.0	35.3	105.9





#91

1,2-Dichlorobenzene

Concen: 19.17 ug/l

RT: 13.65 min Scan# 3694

Delta R.T. 0.00 min

Lab File: VN052334.D

Acq: 15 Nov 2018 11:16

Instrument :

MSVOA_N

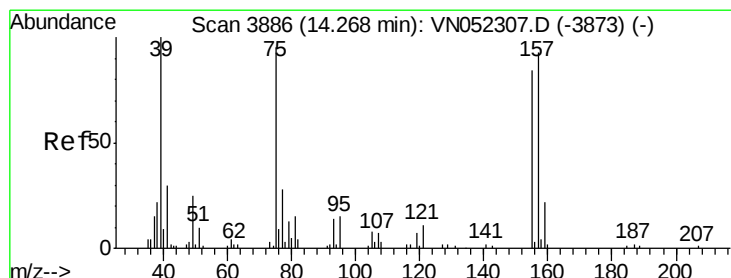
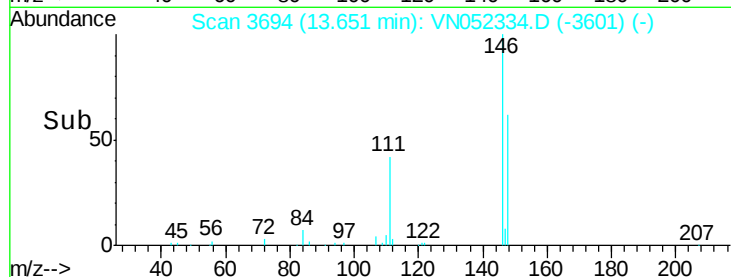
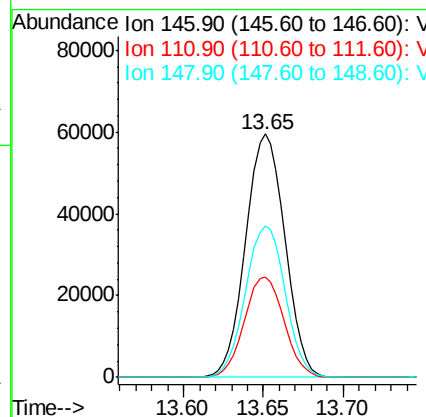
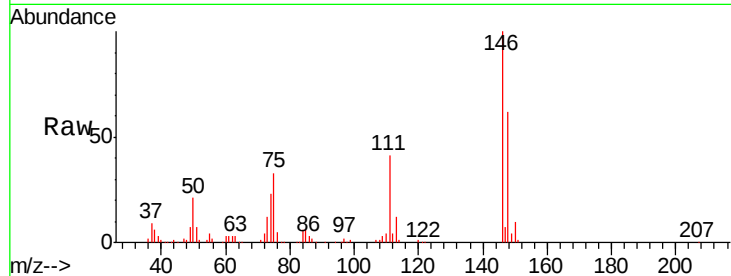
ClientSampleId :

VN1115WBSD01

Tgt Ion:	146	Resp:	99879
Ion Ratio	Lower	Upper	
146	100		
111	41.5	21.3	63.9
148	62.8	31.6	94.8

Manual Integrations
APPROVED

MMDadoda
11/16/2018 4:06:57 PM



#92

1,2-Dibromo-3-Chloropropane

Concen: 17.50 ug/l

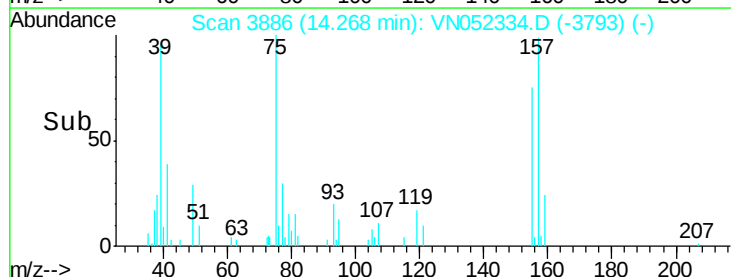
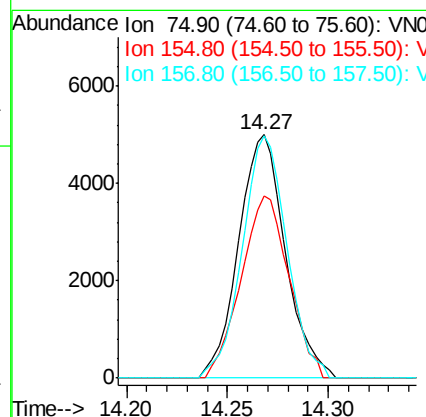
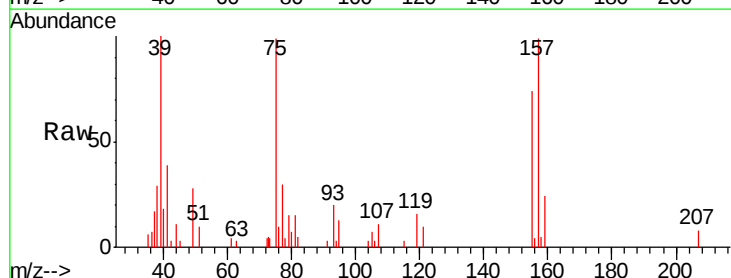
RT: 14.27 min Scan# 3886

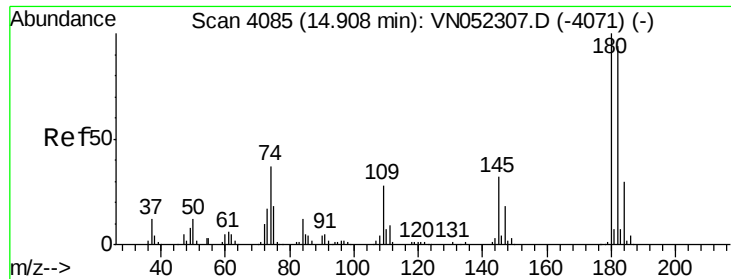
Delta R.T. 0.00 min

Lab File: VN052334.D

Acq: 15 Nov 2018 11:16

Tgt Ion:	75	Resp:	8117
Ion Ratio	Lower	Upper	
75	100		
155	76.4	42.4	127.3
157	95.3	49.6	149.0





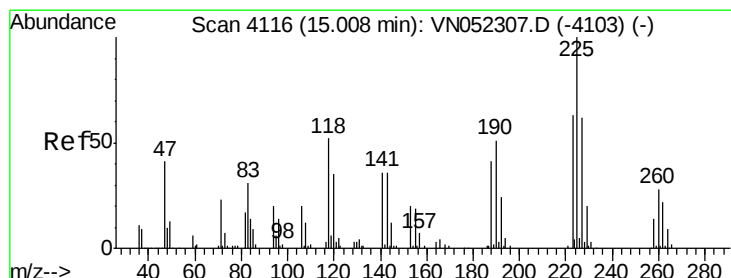
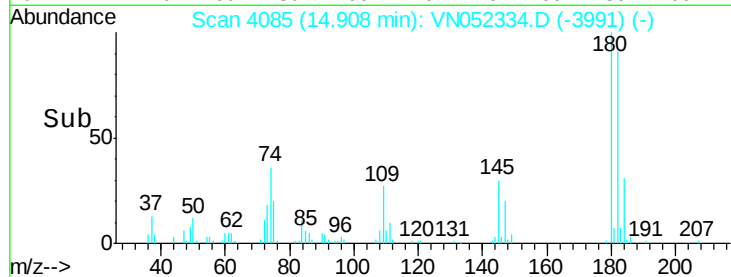
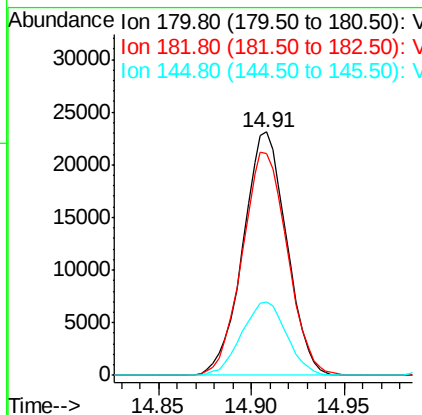
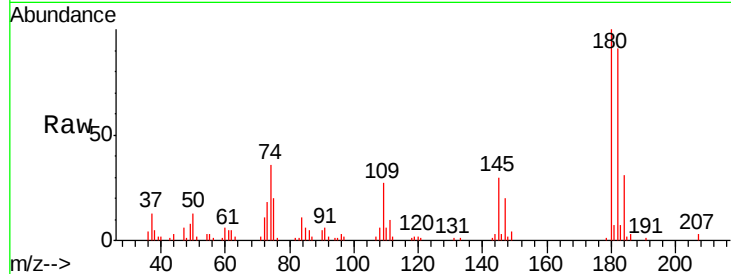
#93
 1,2,4-Trichlorobenzene
 Concen: 17.08 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN052334.D
 Acq: 15 Nov 2018 11:16

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1115WBSD01

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	37623		
182	94.9	47.6	142.9	
145	31.2	15.5	46.5	

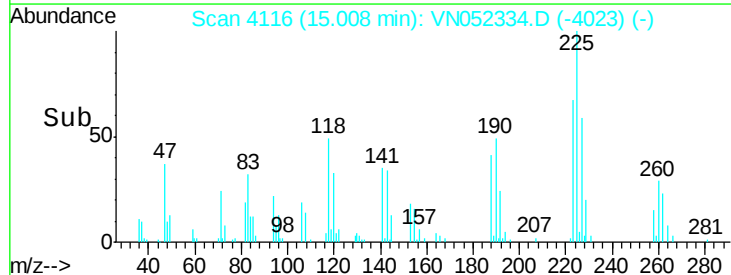
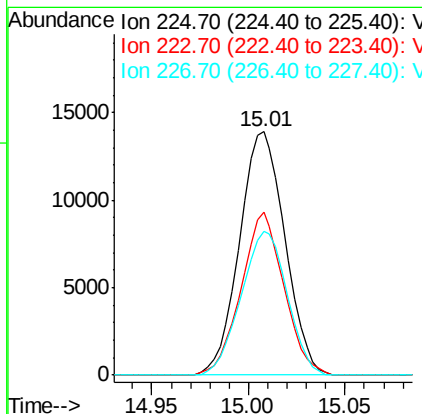
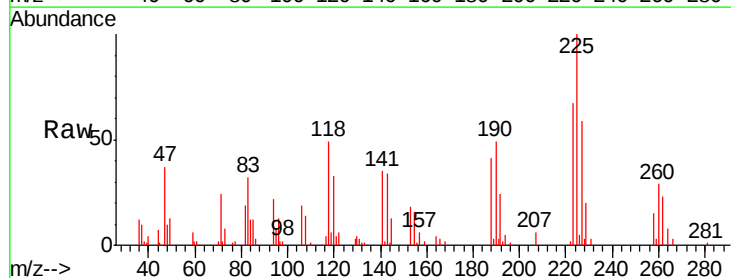
Manual Integrations
 APPROVED

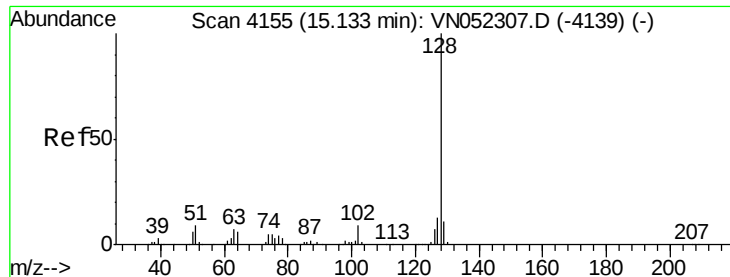
MMDadoda
 11/16/2018 4:06:57 PM



#94
 Hexachlorobutadiene
 Concen: 19.05 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN052334.D
 Acq: 15 Nov 2018 11:16

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	22708		
223	63.0	31.9	95.5	
227	59.7	31.6	95.0	





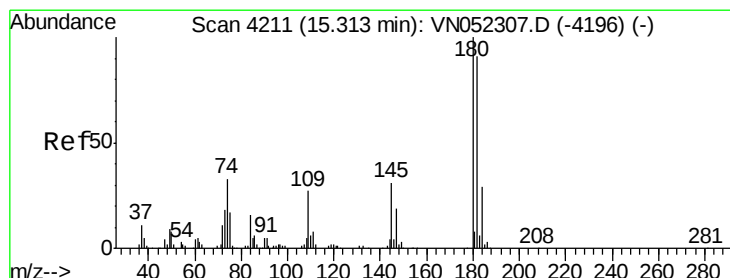
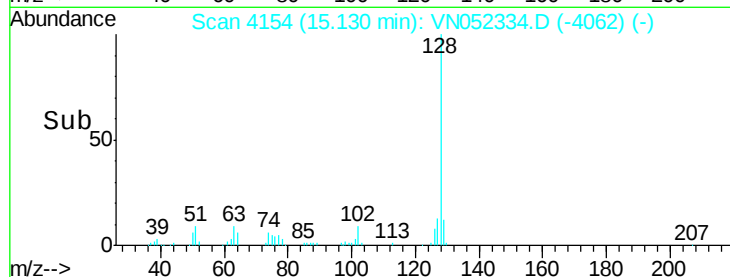
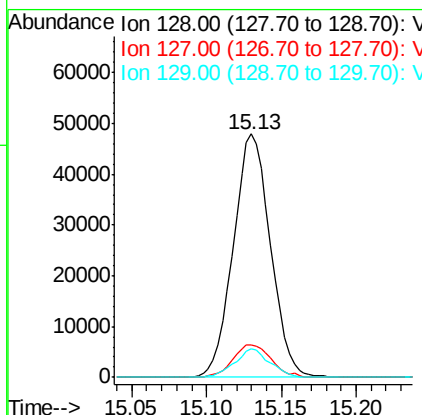
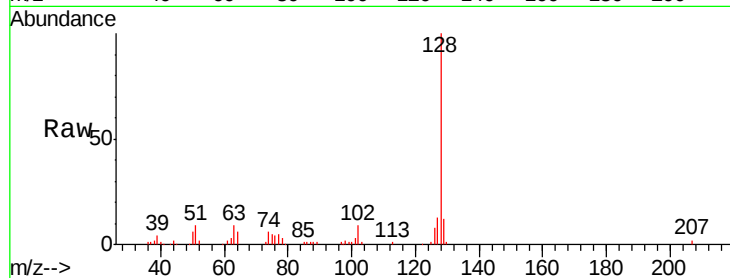
#95
Naphthalene
Concen: 16.28 ug/l
RT: 15.13 min Scan# 4154
Delta R.T. -0.00 min
Lab File: VN052334.D
Acq: 15 Nov 2018 11:16

Instrument :
MSVOA_N
ClientSampleId :
VN1115WBSD01

Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.7	10.4	15.6
129	11.1	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
11/16/2018 4:06:57 PM



#96
1,2,3-Trichlorobenzene
Concen: 17.93 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. 0.00 min
Lab File: VN052334.D
Acq: 15 Nov 2018 11:16

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.3	46.5	139.3
145	32.5	16.4	49.2

