

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN121818\
 Data File : VN052994.D
 Acq On : 19 Dec 2018 6:52
 Operator : MD\SY
 Sample : VN1218MBSD02
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 47 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1218MBSD02

Manual Integrations
 APPROVED

MMDadoda
 12/19/2018 12:08:13 PM

Quant Time: Dec 19 07:57:03 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121818W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 18 13:03:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1076638	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1692112	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1505912	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	683265	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	591718	54.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.32%	
35) Dibromofluoromethane	7.59	113	446344	57.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	115.48%	
50) Toluene-d8	10.09	98	2145141	51.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.40%	
62) 4-Bromofluorobenzene	12.40	95	735806	50.51	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.02%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	212088	19.464	ug/l	98
3) Chloromethane	2.06	50	264519	20.033	ug/l	98
4) Vinyl Chloride	2.19	62	263176	19.680	ug/l	99
5) Bromomethane	2.58	94	166609	17.983	ug/l	100
6) Chloroethane	2.71	64	158752	20.044	ug/l	100
7) Trichlorofluoromethane	3.03	101	332801	19.977	ug/l	99
8) Diethyl Ether	3.41	74	130374	20.745	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	3.77	101	203705	19.178	ug/l	98
10) Methyl Iodide	3.96	142	291146	19.519	ug/l	99
11) Tert butyl alcohol	4.77	59	70351	105.529	ug/l	100
12) 1,1-Dichloroethene	3.74	96	203438	19.825	ug/l	96
13) Acrolein	3.61	56	78365	129.640	ug/l	99
14) Allyl chloride	4.33	41	298610	18.786	ug/l	99
15) Acrylonitrile	4.99	53	378075	102.084	ug/l	99
16) Acetone	3.82	43	243285	113.567	ug/l	99
17) Carbon Disulfide	4.06	76	588686	17.591	ug/l	100
18) Methyl Acetate	4.33	43	195852	20.736	ug/l	98
19) Methyl tert-butyl Ether	5.05	73	565507	20.593	ug/l	100
20) Methylene Chloride	4.56	84	262453	22.460	ug/l	96
21) trans-1,2-Dichloroethene	5.05	96	216446	19.632	ug/l	97
22) Diisopropyl ether	5.95	45	706453	20.822	ug/l	97
23) Vinyl Acetate	5.90	43	2043804	104.757	ug/l	98
24) 1,1-Dichloroethane	5.85	63	405108	20.093	ug/l	99
25) 2-Butanone	6.83	43	396392	110.257	ug/l	98
26) 2,2-Dichloropropane	6.83	77	213228	13.855	ug/l	98
27) cis-1,2-Dichloroethene	6.83	96	249759	20.010	ug/l	96
28) Bromochloromethane	7.20	49	183793	21.038	ug/l	96
29) Tetrahydrofuran	7.21	42	284630	106.003	ug/l	99
30) Chloroform	7.37	83	397324	20.061	ug/l	98
31) Cyclohexane	7.66	56	384196	19.681	ug/l	94
32) 1,1,1-Trichloroethane	7.57	97	330846	19.610	ug/l	99
36) 1,1-Dichloropropene	7.80	75	302585	18.631	ug/l	99
37) Ethyl Acetate	6.93	43	190284	20.987	ug/l	99
38) Carbon Tetrachloride	7.78	117	282193	18.956	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN121818\
 Data File : VN052994.D
 Acq On : 19 Dec 2018 6:52
 Operator : MD\SY
 Sample : VN1218MBSD02
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 47 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleID :
 VN1218MBSD02

Manual Integrations
 APPROVED

MMDadoda
 12/19/2018 12:08:13 PM

Quant Time: Dec 19 07:57:03 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121818W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 18 13:03:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	358932	18.192	ug/l	97
40) Benzene	8.04	78	942033	19.500	ug/l	99
41) Methacrylonitrile	7.17	41	110571	21.107	ug/l	94
42) 1,2-Dichloroethane	8.13	62	278381	19.506	ug/l	99
43) Isopropyl Acetate	8.16	43	370866	20.521	ug/l	98
44) Trichloroethene	8.84	130	264332	18.917	ug/l	96
45) 1,2-Dichloropropane	9.12	63	246114	19.559	ug/l	99
46) Dibromomethane	9.21	93	142564	19.449	ug/l	99
47) Bromodichloromethane	9.40	83	298924	19.184	ug/l	99
48) Methyl methacrylate	9.20	41	173876	19.763	ug/l	98
49) 1,4-Dioxane	9.20	88	44010	395.447	ug/l	97
51) 4-Methyl-2-Pentanone	9.99	43	917139	104.453	ug/l	100
52) Toluene	10.16	92	584469	19.519	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	288101	17.583	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	343410	18.260	ug/l	98
55) 1,1,2-Trichloroethane	10.56	97	207933	19.905	ug/l	99
56) Ethyl methacrylate	10.43	69	278374	20.133	ug/l	98
57) 1,3-Dichloropropane	10.71	76	354263	19.776	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	793528	104.537	ug/l	99
59) 2-Hexanone	10.75	43	622349	104.761	ug/l	100
60) Dibromochloromethane	10.90	129	224557	18.779	ug/l	100
61) 1,2-Dibromoethane	11.01	107	206778	19.490	ug/l	100
64) Tetrachloroethene	10.63	164	304495	18.666	ug/l	99
65) Chlorobenzene	11.43	112	636402	19.064	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	221762	19.104	ug/l	99
67) Ethyl Benzene	11.51	91	1097517	19.118	ug/l	99
68) m/p-Xylenes	11.62	106	826860	37.888	ug/l	100
69) o-Xylene	11.95	106	406427	19.407	ug/l	100
70) Styrene	11.96	104	660089	19.330	ug/l	99
71) Bromoform	12.13	173	156999	18.721	ug/l #	98
73) Isopropylbenzene	12.25	105	1070995	20.034	ug/l	100
74) N-amyl acetate	12.07	43	312019	21.022	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.50	83	226691	21.614	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	207627m	18.051	ug/l	
77) Bromobenzene	12.53	156	281263	20.240	ug/l	97
78) n-propylbenzene	12.59	91	1189895	19.543	ug/l	99
79) 2-Chlorotoluene	12.68	91	717531	19.013	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	842059	19.325	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	59415	16.649	ug/l	97
82) 4-Chlorotoluene	12.77	91	718402	19.446	ug/l	100
83) tert-Butylbenzene	12.99	119	749910	19.459	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	859824	19.629	ug/l	99
85) sec-Butylbenzene	13.17	105	987981	18.954	ug/l	100
86) p-Isopropyltoluene	13.29	119	841189	18.676	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	464588	18.889	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	455480	18.287	ug/l	99
89) n-Butylbenzene	13.62	91	658033	16.982	ug/l	99
90) Hexachloroethane	13.88	117	124928	18.074	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	442649	19.123	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	33144	18.277	ug/l	95

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN121818\
Data File : VN052994.D
Acq On : 19 Dec 2018 6:52
Operator : MD\SY
Sample : VN1218MBSD02
Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 47 Sample Multiplier: 28

Instrument :
MSVOA_N
ClientSampleId :
VN1218MBSD02

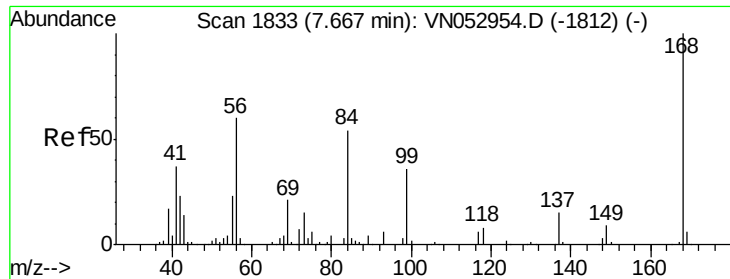
Manual Integrations
APPROVED

MMDadoda
12/19/2018 12:08:13 PM

Quant Time: Dec 19 07:57:03 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121818W.M
Quant Title : SW846 8260
QLast Update : Tue Dec 18 13:03:37 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	209049	17.439	ug/l	99
94) Hexachlorobutadiene	15.01	225	125104	17.856	ug/l	99
95) Naphthalene	15.13	128	483367	18.727	ug/l	100
96) 1,2,3-Trichlorobenzene	15.31	180	193170	17.822	ug/l	100

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN052994.D

Acq: 19 Dec 2018 6:52

Instrument :

MSVOA_N

ClientSampleId :

VN1218MBSD02

Tgt Ion:168 Resp: 1076638

Ion Ratio Lower Upper

168 100

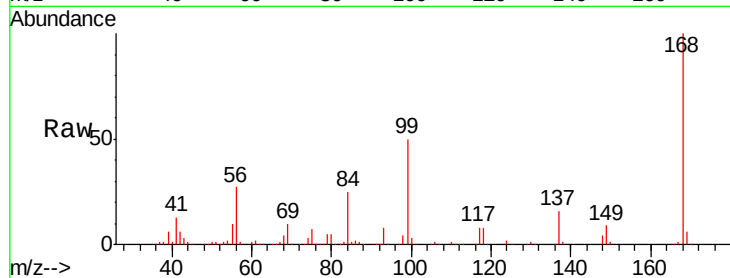
99 49.5 40.2 60.2

Manual Integrations

APPROVED

MMDadoda

12/19/2018 12:08:13 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

400000

300000

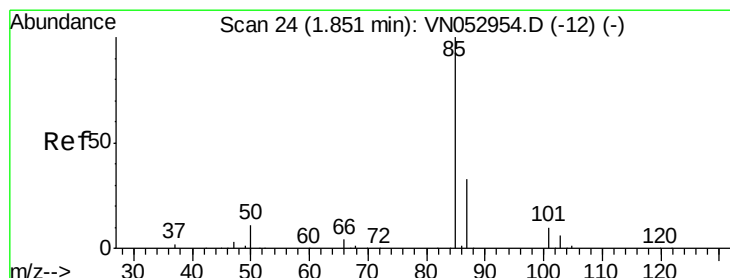
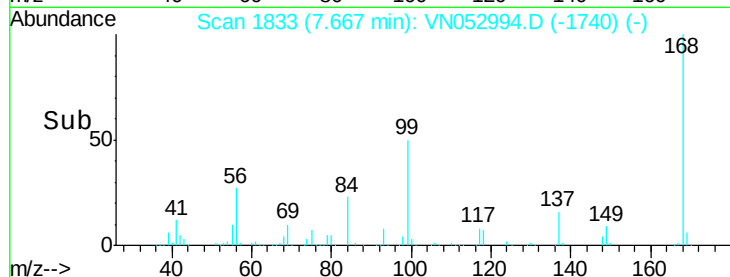
200000

100000

0

7.60 7.70 7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 19.464 ug/l

RT: 1.85 min Scan# 25

Delta R.T. 0.00 min

Lab File: VN052994.D

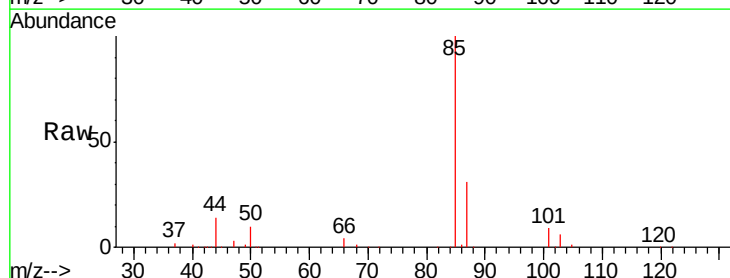
Acq: 19 Dec 2018 6:52

Tgt Ion: 85 Resp: 212088

Ion Ratio Lower Upper

85 100

87 31.4 16.3 48.8



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

1.85

150000

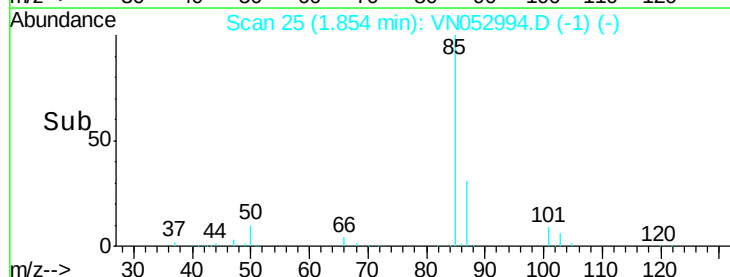
100000

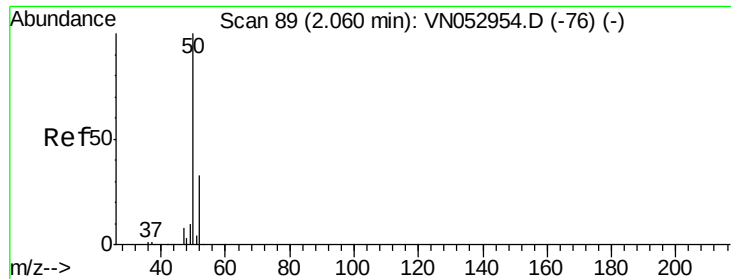
50000

0

1.80 1.85 1.90 1.95

Time-->





#3

Chloromethane

Concen: 20.033 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN052994.D

Acq: 19 Dec 2018 6:52

Instrument :

MSVOA_N

ClientSampleId :

VN1218MBSD02

Tgt Ion: 50 Resp: 264519

Ion Ratio Lower Upper

50 100

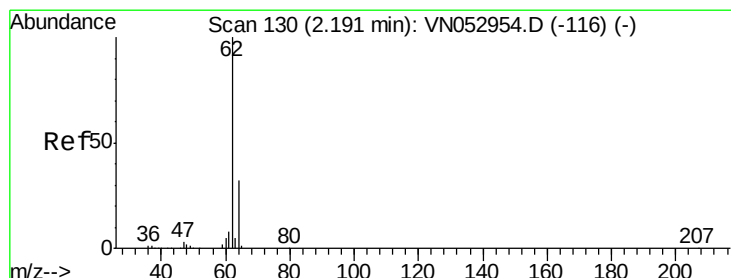
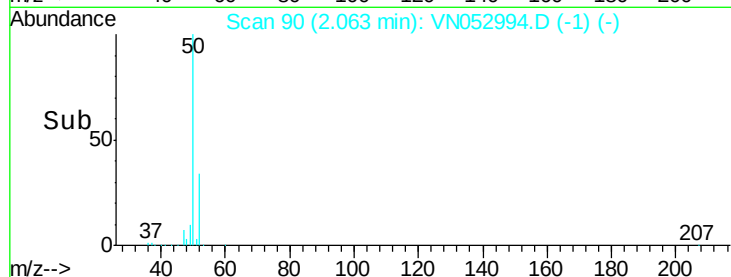
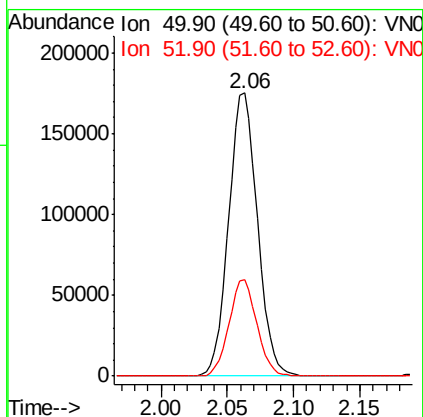
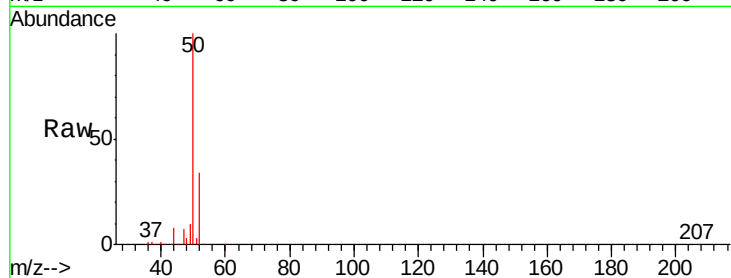
52 34.0 26.2 39.4

Manual Integrations

APPROVED

MMDadoda

12/19/2018 12:08:13 PM



#4

Vinyl Chloride

Concen: 19.680 ug/l

RT: 2.19 min Scan# 130

Delta R.T. -0.00 min

Lab File: VN052994.D

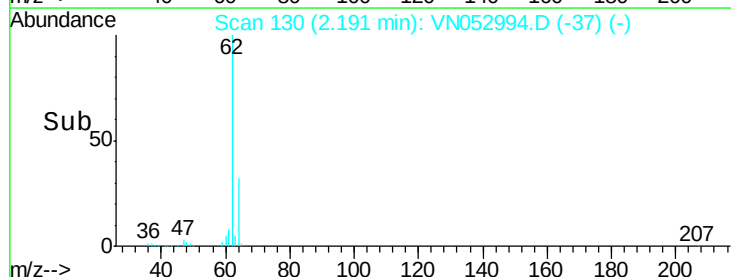
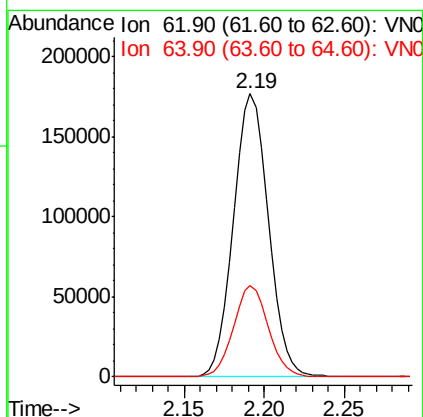
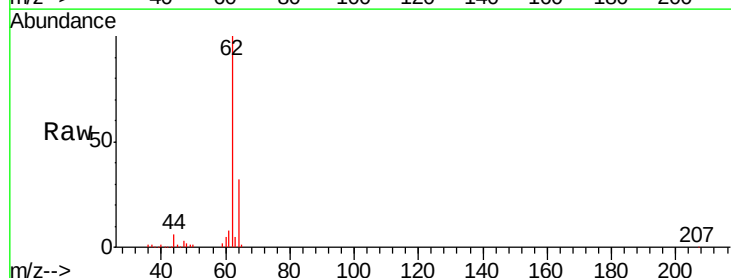
Acq: 19 Dec 2018 6:52

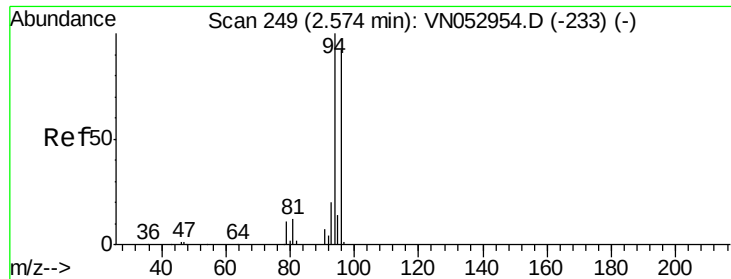
Tgt Ion: 62 Resp: 263176

Ion Ratio Lower Upper

62 100

64 32.2 25.5 38.3





#5

Bromomethane

Concen: 17.983 ug/l

RT: 2.58 min Scan# 250

Delta R.T. 0.00 min

Lab File: VN052994.D

Acq: 19 Dec 2018 6:52

Instrument :

MSVOA_N

ClientSampleId :

VN1218MBSD02

Tgt Ion: 94 Resp: 166609

Ion Ratio Lower Upper

94 100

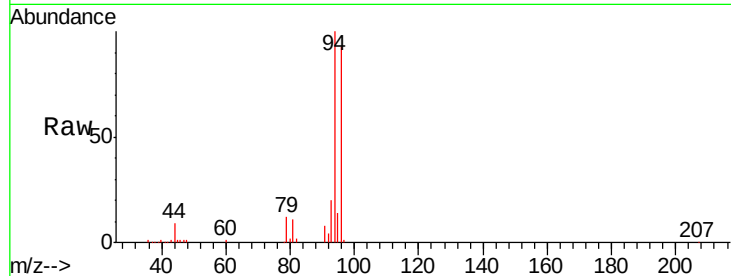
96 93.4 75.0 112.4

Manual Integrations

APPROVED

MMDadoda

12/19/2018 12:08:13 PM



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

2.58

80000

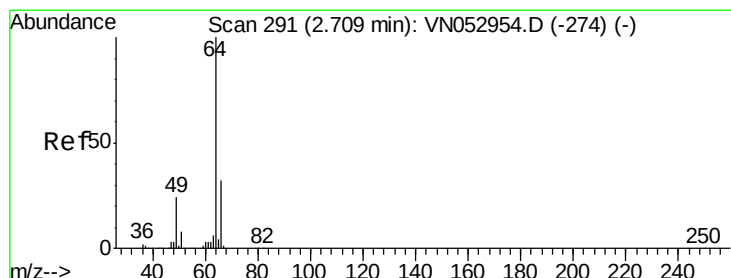
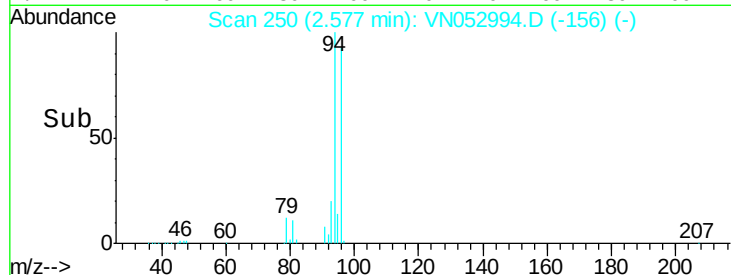
60000

40000

20000

0

Time-->



#6

Chloroethane

Concen: 20.044 ug/l

RT: 2.71 min Scan# 292

Delta R.T. 0.00 min

Lab File: VN052994.D

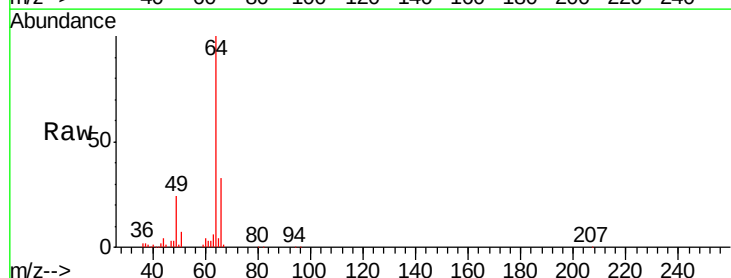
Acq: 19 Dec 2018 6:52

Tgt Ion: 64 Resp: 158752

Ion Ratio Lower Upper

64 100

66 32.5 26.2 39.2



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0

2.71

80000

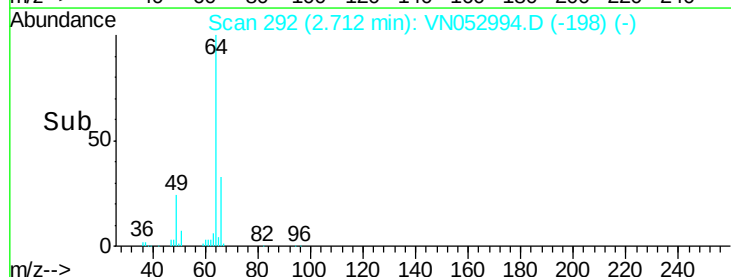
60000

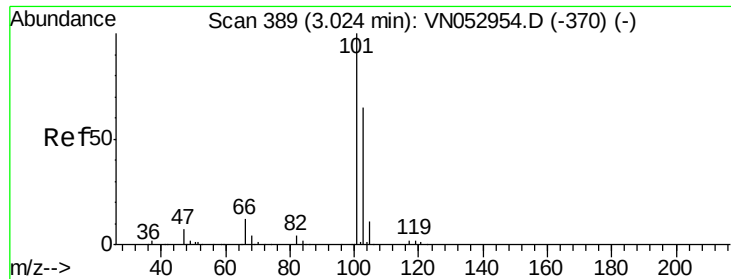
40000

20000

0

Time-->





#7

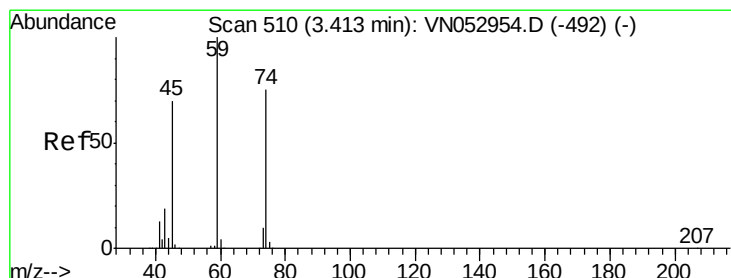
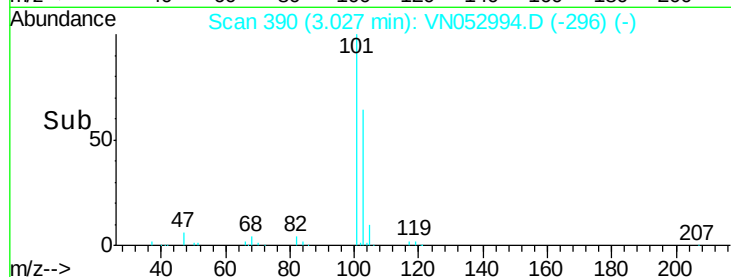
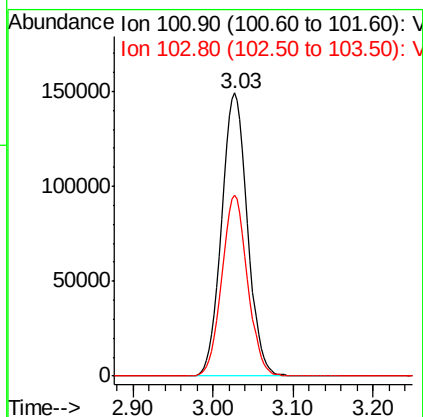
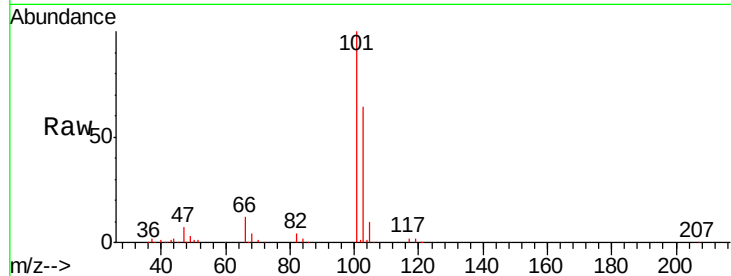
Trichlorofluoromethane
 Concen: 19.977 ug/l
 RT: 3.03 min Scan# 390
 Delta R.T. 0.00 min
 Lab File: VN052994.D
 Acq: 19 Dec 2018 6:52

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1218MBSD02

Tgt Ion	Ratio	Resp	Lower	Upper
101	100	332801		
103	64.1	51.8	77.6	

Manual Integrations
 APPROVED

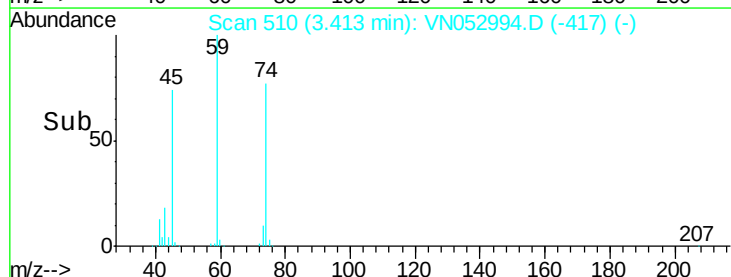
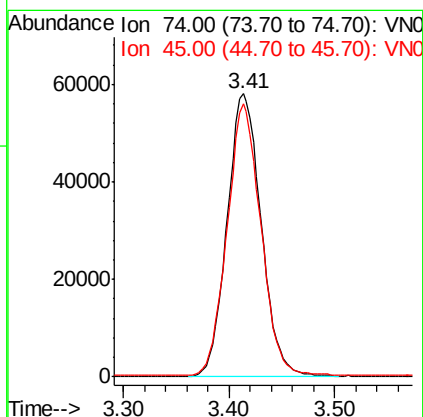
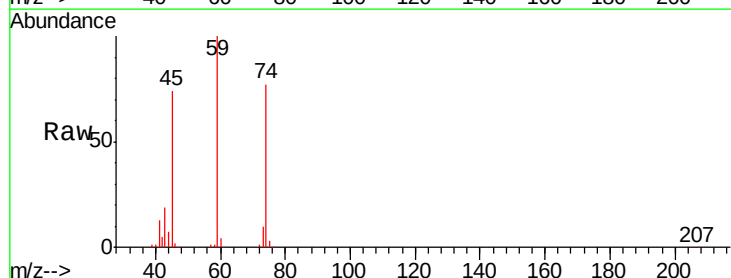
MMDadoda
 12/19/2018 12:08:13 PM

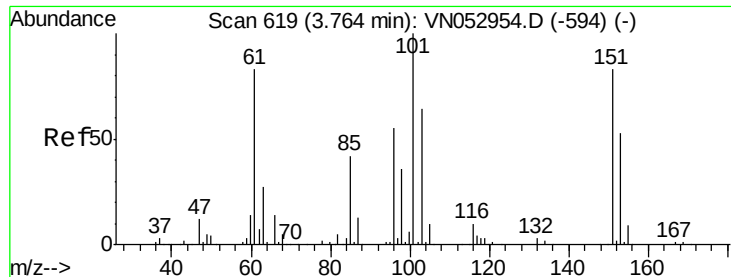


#8

Diethyl Ether
 Concen: 20.745 ug/l
 RT: 3.41 min Scan# 510
 Delta R.T. -0.00 min
 Lab File: VN052994.D
 Acq: 19 Dec 2018 6:52

Tgt Ion	Ratio	Resp	Lower	Upper
74	100	130374		
45	94.8	49.4	148.0	





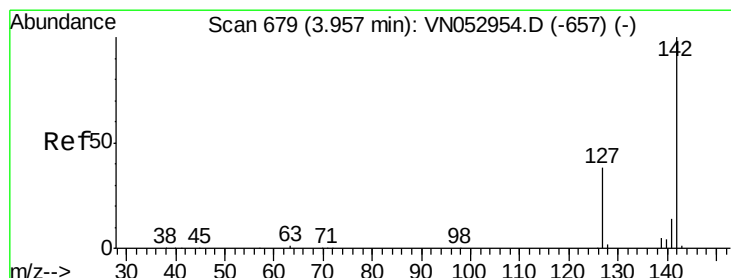
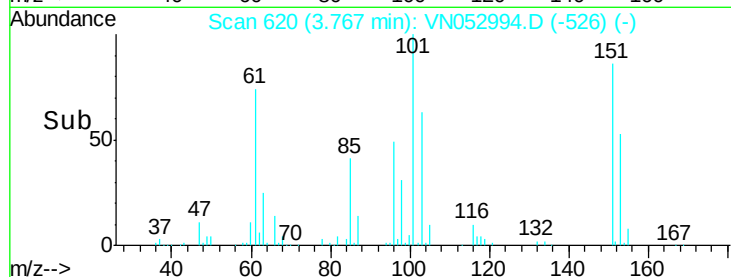
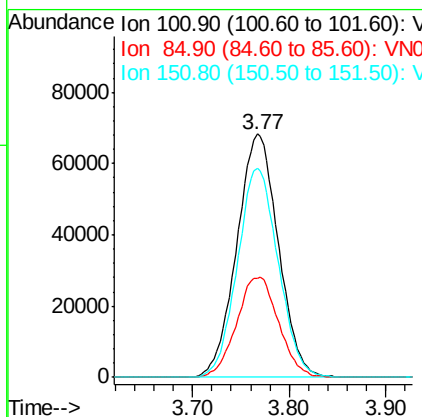
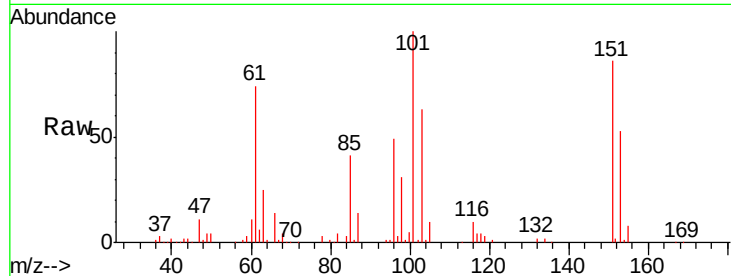
#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 19.178 ug/l
 RT: 3.77 min Scan# 620
 Delta R.T. 0.00 min
 Lab File: VN052994.D
 Acq: 19 Dec 2018 6:52

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1218MBSD02

Tgt Ion	Ratio	Resp	Lower	Upper
101	100	203705		
85	41.7	33.6	50.4	
151	84.6	65.5	98.3	

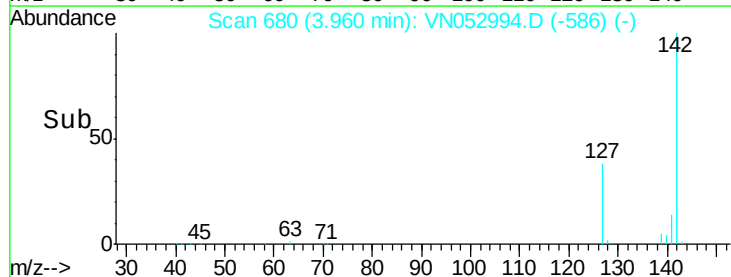
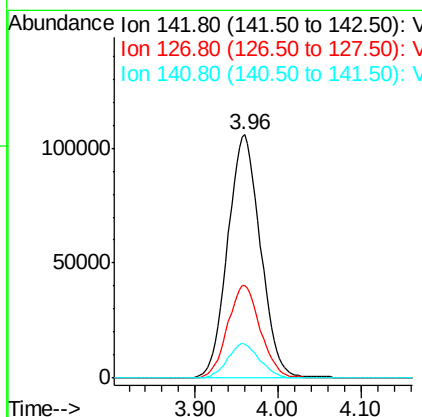
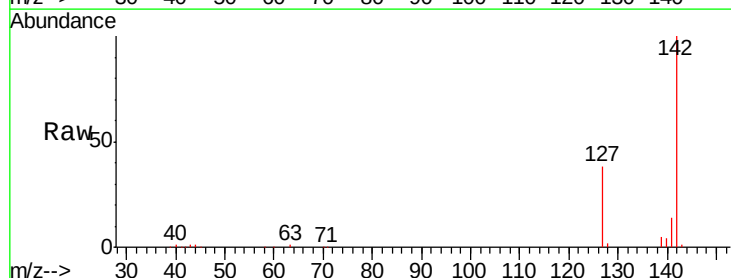
Manual Integrations
 APPROVED

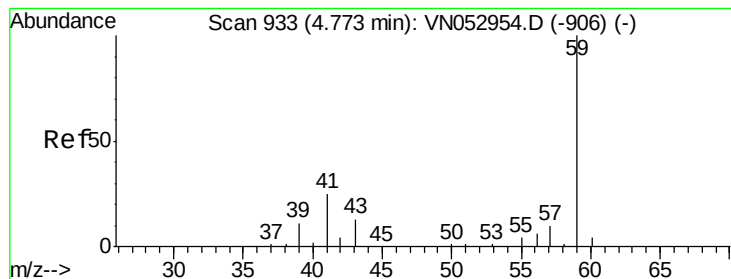
MMDadoda
 12/19/2018 12:08:13 PM



#10
 Methyl Iodide
 Concen: 19.519 ug/l
 RT: 3.96 min Scan# 680
 Delta R.T. 0.00 min
 Lab File: VN052994.D
 Acq: 19 Dec 2018 6:52

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	291146		
127	38.1	31.0	46.6	
141	13.8	11.2	16.8	





#11

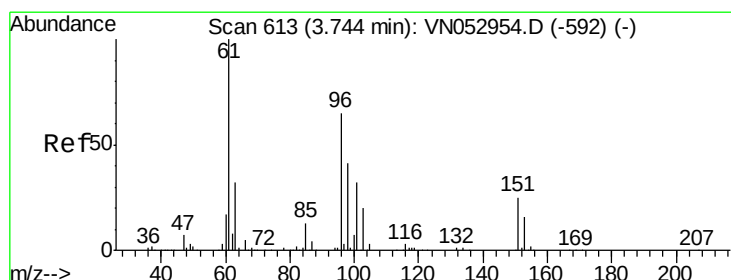
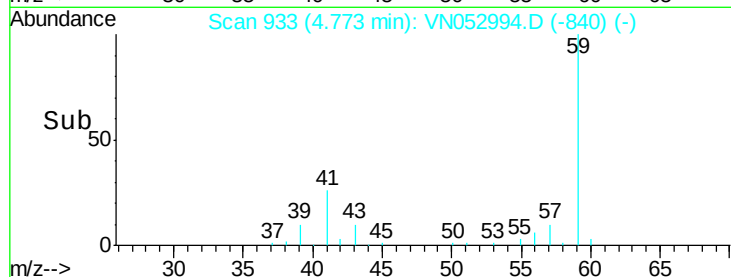
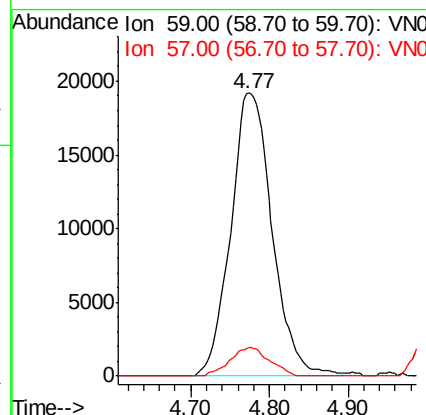
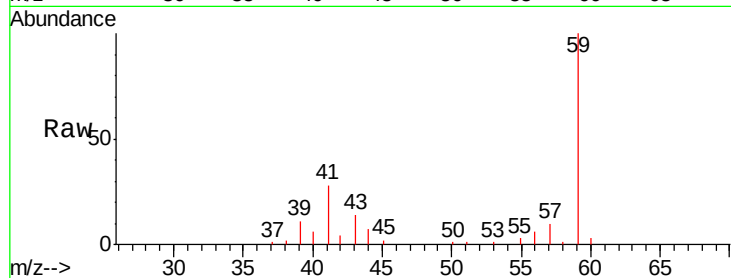
Tert butyl alcohol
Concen: 105.529 ug/l
RT: 4.77 min Scan# 933
Delta R.T. -0.00 min
Lab File: VN052994.D
Acq: 19 Dec 2018 6:52

Instrument :
MSVOA_N
ClientSampleId :
VN1218MBSD02

Tgt Ion	Ratio	Lower	Upper
59	100		
57	9.6	7.7	11.5

Manual Integrations
APPROVED

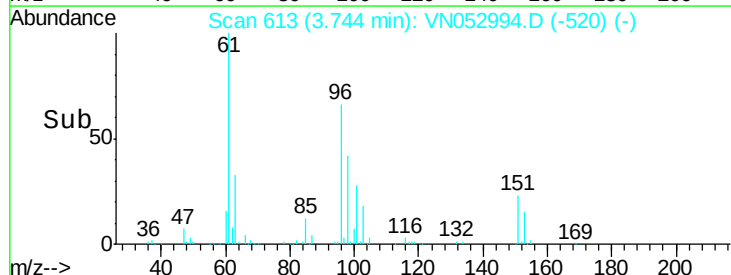
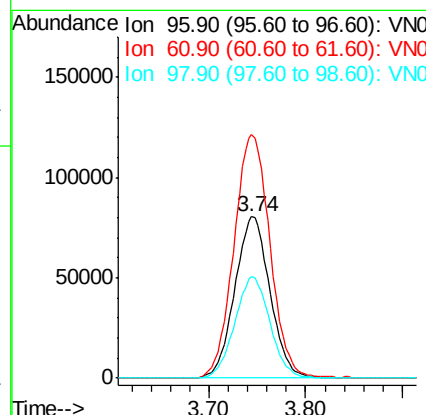
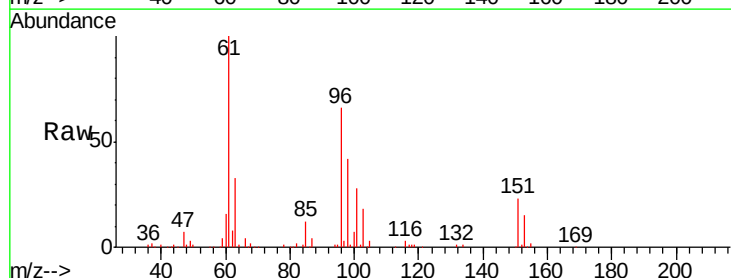
MMDadoda
12/19/2018 12:08:13 PM

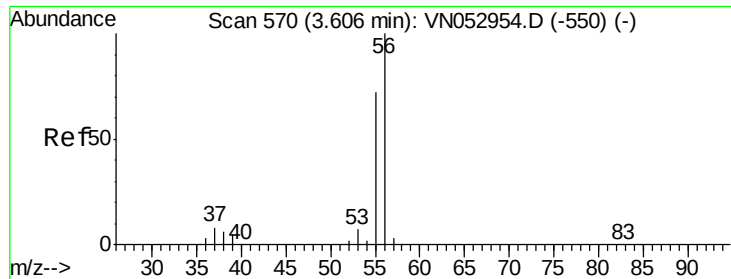


#12

1,1-Dichloroethene
Concen: 19.825 ug/l
RT: 3.74 min Scan# 613
Delta R.T. -0.00 min
Lab File: VN052994.D
Acq: 19 Dec 2018 6:52

Tgt Ion	Ratio	Lower	Upper
96	100		
61	150.6	125.6	188.4
98	63.1	50.6	75.8





#13

Acrolein

Concen: 129.640 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN052994.D

Acq: 19 Dec 2018 6:52

Instrument :

MSVOA_N

ClientSampleId :

VN1218MBSD02

Tgt Ion: 56 Resp: 78365

Ion Ratio Lower Upper

56 100

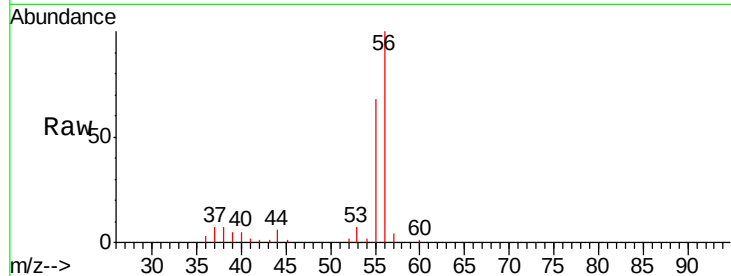
55 70.1 56.6 85.0

Manual Integrations

APPROVED

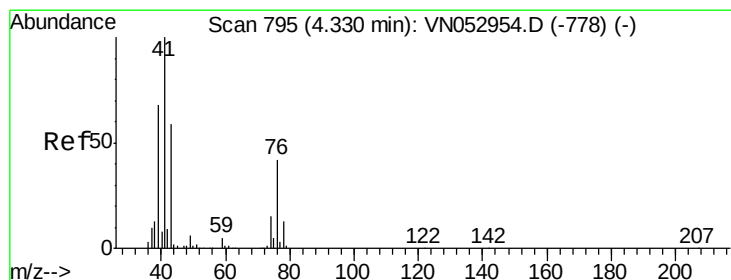
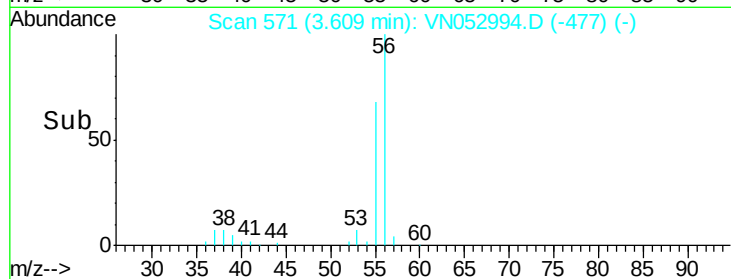
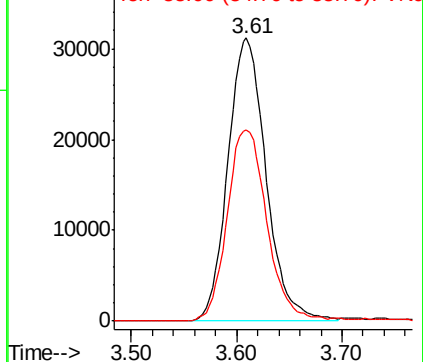
MMDadoda

12/19/2018 12:08:13 PM



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Allyl chloride

Concen: 18.786 ug/l

RT: 4.33 min Scan# 795

Delta R.T. -0.00 min

Lab File: VN052994.D

Acq: 19 Dec 2018 6:52

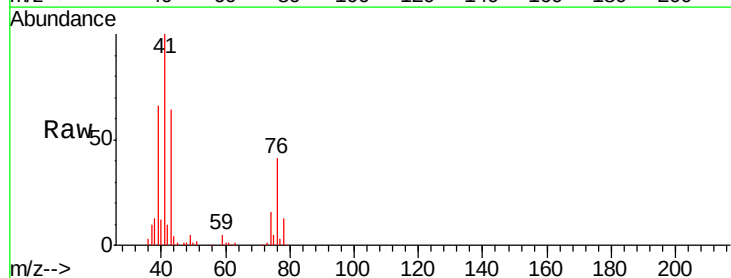
Tgt Ion: 41 Resp: 298610

Ion Ratio Lower Upper

41 100

39 66.7 54.1 81.1

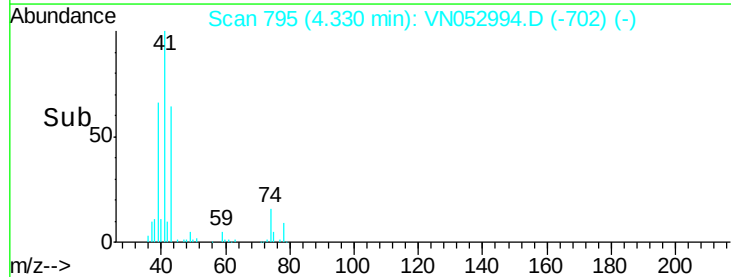
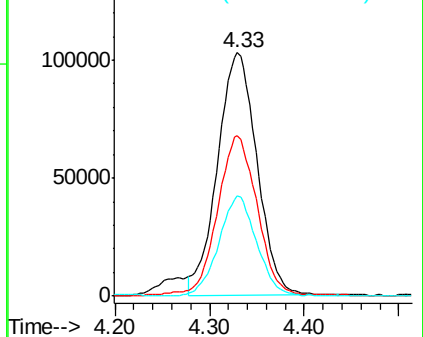
76 38.9 30.3 45.5

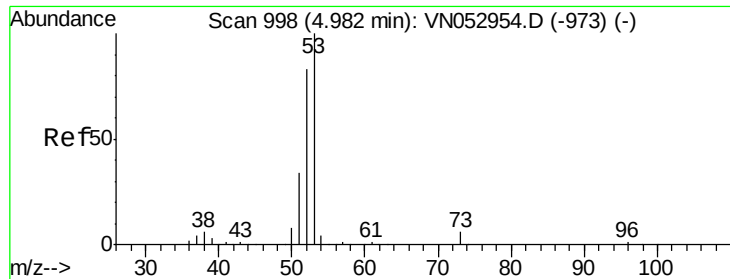


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





#15

Acrylonitrile

Concen: 102.084 ug/l

RT: 4.99 min Scan# 1000

Delta R.T. 0.01 min

Lab File: VN052994.D

Acq: 19 Dec 2018 6:52

Instrument :

MSVOA_N

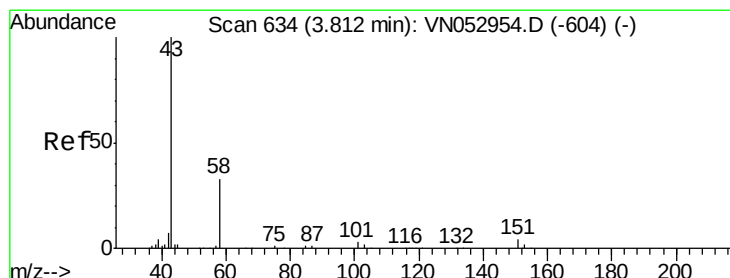
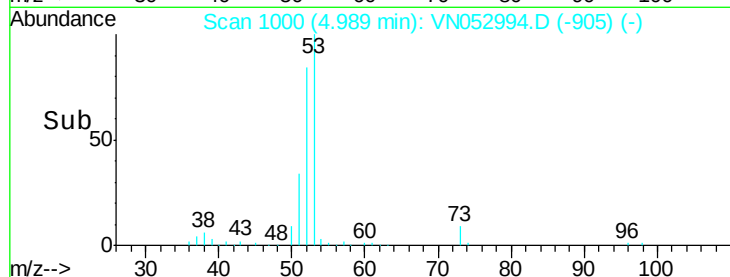
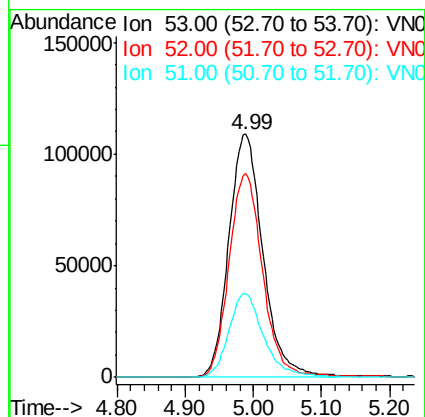
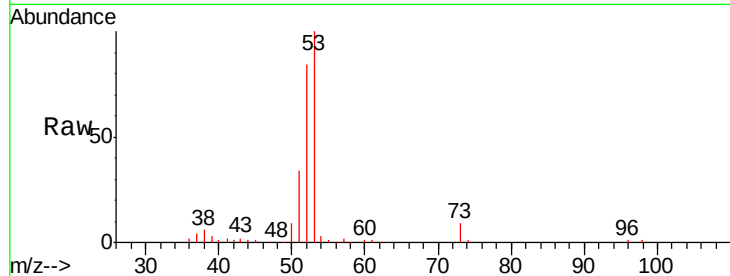
ClientSampleId :

VN1218MBS02

Tgt Ion:	53	Resp:	378075
Ion Ratio	Lower	Upper	
53	100		
52	82.7	65.1	97.7
51	35.3	28.1	42.1

Manual Integrations
APPROVED

MMDadoda
12/19/2018 12:08:13 PM



#16

Acetone

Concen: 113.567 ug/l

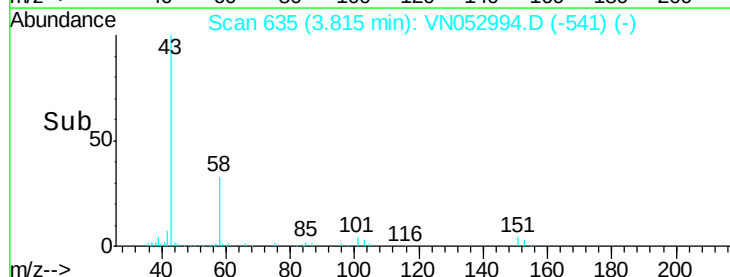
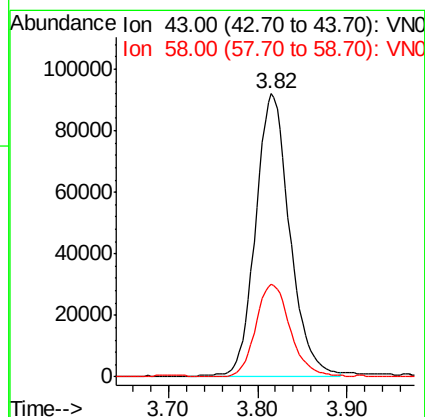
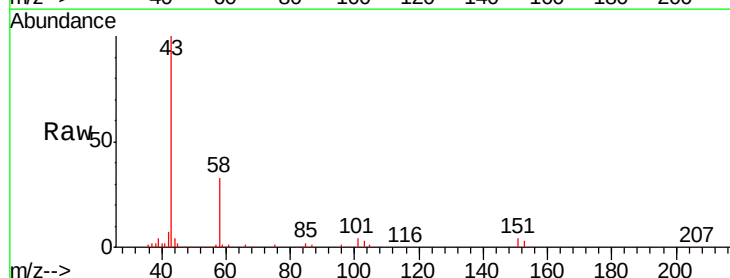
RT: 3.82 min Scan# 635

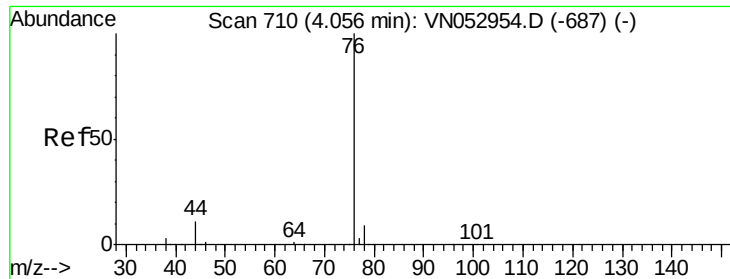
Delta R.T. 0.00 min

Lab File: VN052994.D

Acq: 19 Dec 2018 6:52

Tgt Ion:	43	Resp:	243285
Ion Ratio	Lower	Upper	
43	100		
58	32.4	25.4	38.0





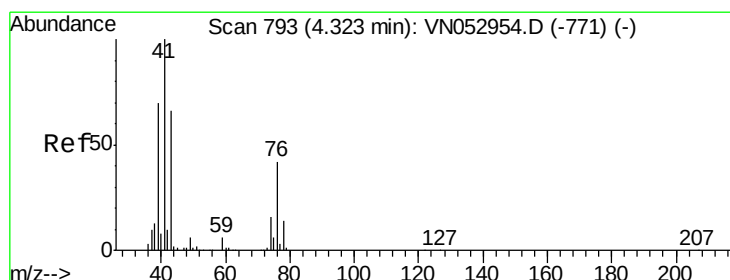
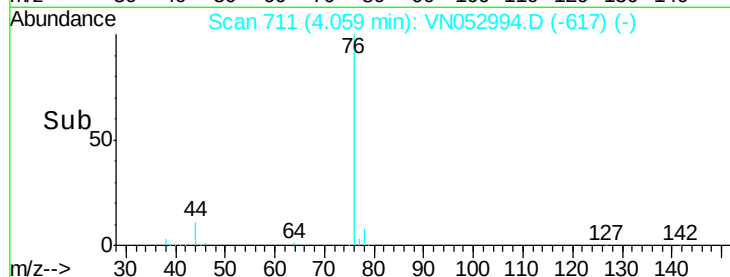
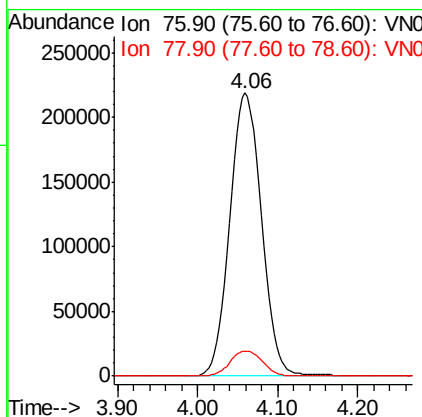
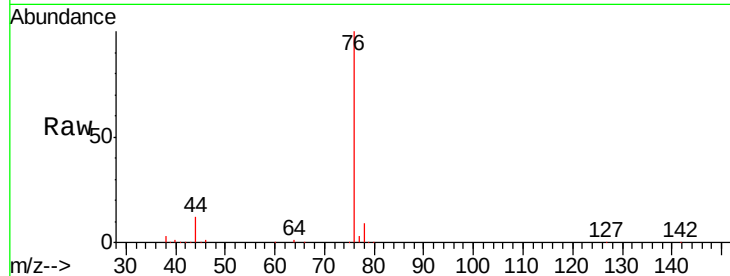
#17
Carbon Disulfide
Concen: 17.591 ug/l
RT: 4.06 min Scan# 711
Delta R.T. 0.00 min
Lab File: VN052994.D
Acq: 19 Dec 2018 6:52

Instrument :
MSVOA_N
ClientSampleId :
VN1218MBSD02

Tgt Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.1	10.7

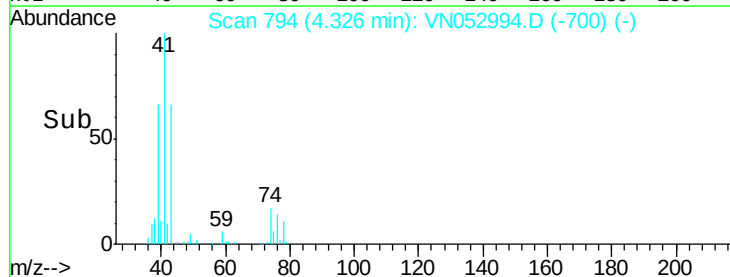
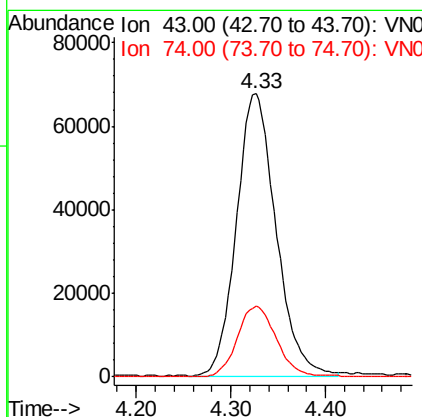
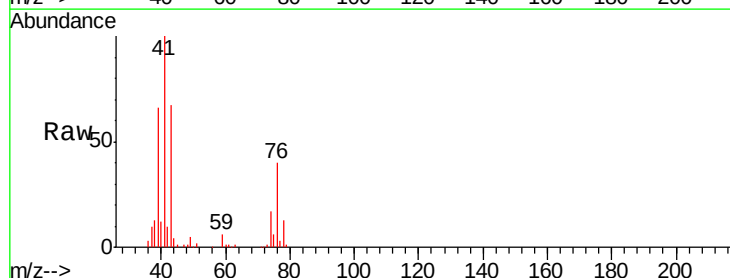
Manual Integrations
APPROVED

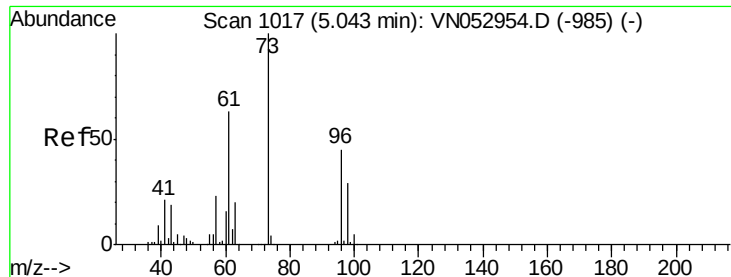
MMDadoda
12/19/2018 12:08:13 PM



#18
Methyl Acetate
Concen: 20.736 ug/l
RT: 4.33 min Scan# 794
Delta R.T. 0.00 min
Lab File: VN052994.D
Acq: 19 Dec 2018 6:52

Tgt Ion	Ratio	Lower	Upper
43	100		
74	25.0	19.2	28.8





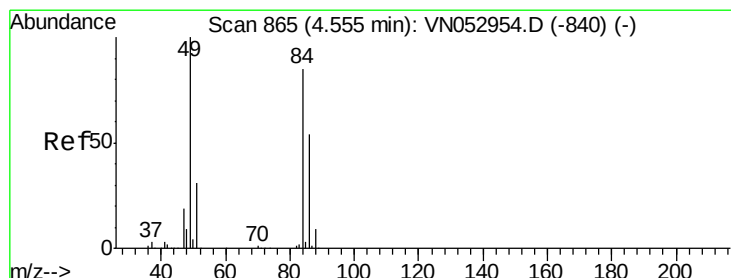
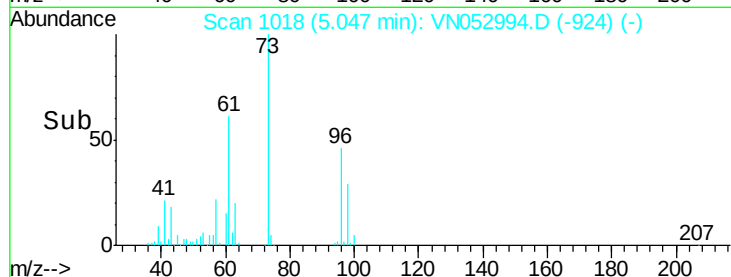
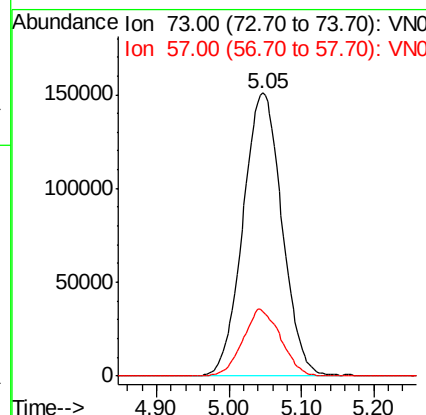
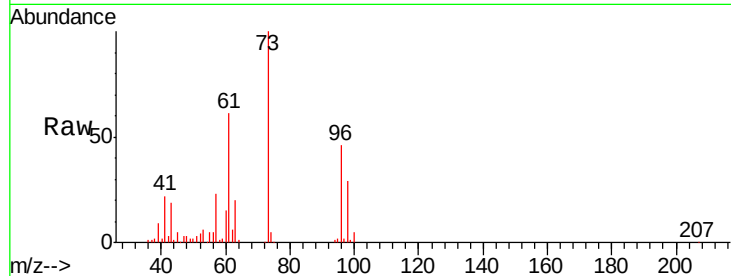
#19
Methyl tert-butyl Ether
Concen: 20.593 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VN052994.D
Acq: 19 Dec 2018 6:52

Instrument :
MSVOA_N
ClientSampleId :
VN1218MBSD02

Tgt Ion: 73 Resp: 565507
Ion Ratio Lower Upper
73 100
57 22.9 18.4 27.6

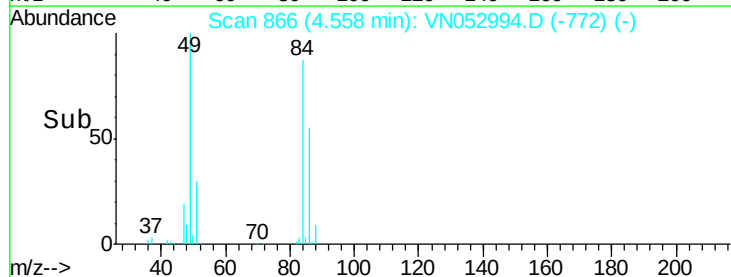
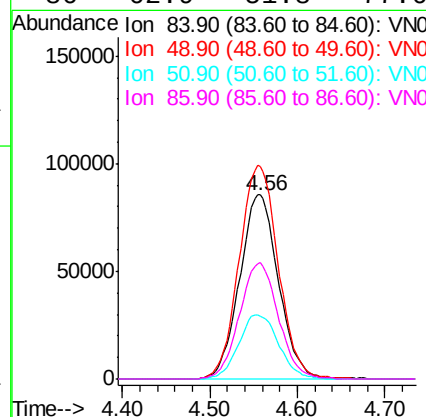
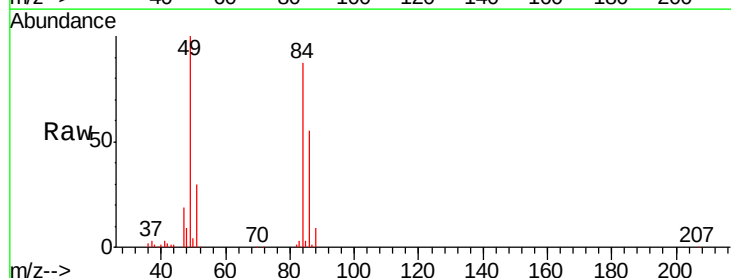
Manual Integrations
APPROVED

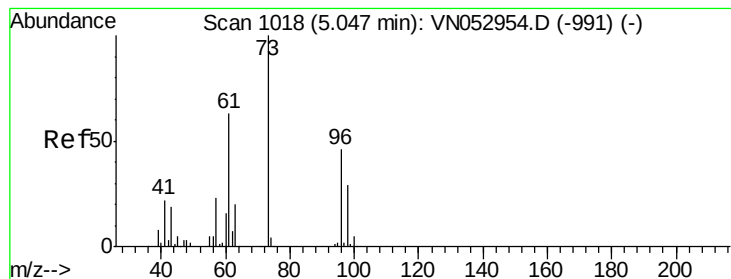
MMDadoda
12/19/2018 12:08:13 PM



#20
Methylene Chloride
Concen: 22.460 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN052994.D
Acq: 19 Dec 2018 6:52

Tgt Ion: 84 Resp: 262453
Ion Ratio Lower Upper
84 100
49 115.2 96.8 145.2
51 34.3 29.9 44.9
86 62.9 51.8 77.6





#21

trans-1,2-Dichloroethene

Concen: 19.632 ug/l

RT: 5.05 min Scan# 1018

Delta R.T. -0.00 min

Lab File: VN052994.D

Acq: 19 Dec 2018 6:52

Instrument :

MSVOA_N

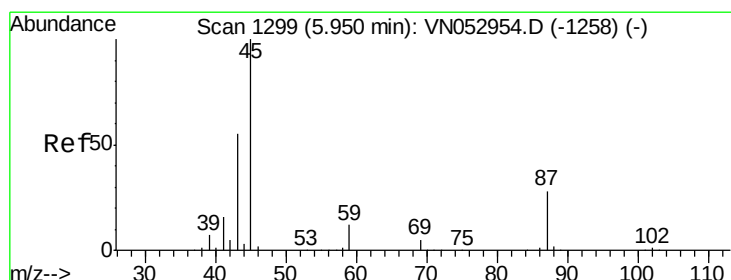
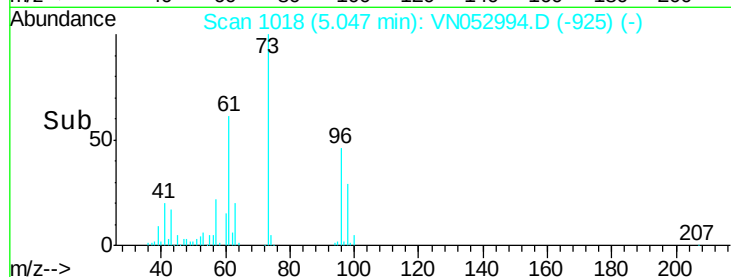
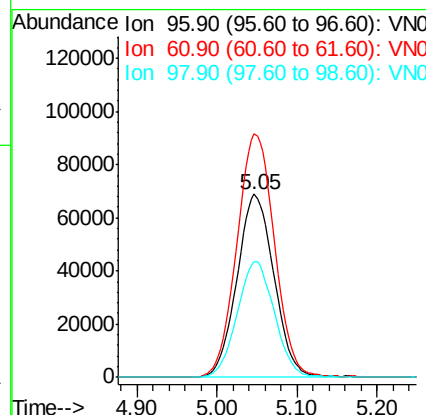
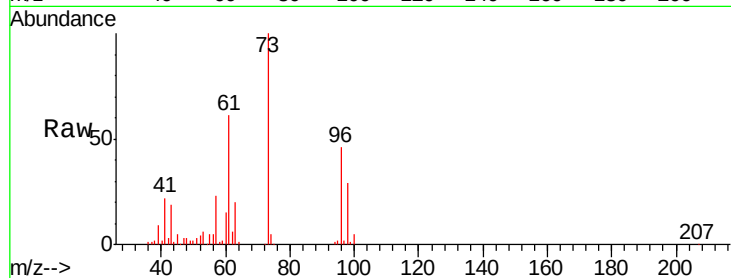
ClientSampleId :

VN1218MBSD02

Tgt Ion:	96	Resp:	216446
Ion	Ratio	Lower	Upper
96	100		
61	133.2	110.8	166.2
98	63.4	51.4	77.2

Manual Integrations
APPROVED

MMDadoda
12/19/2018 12:08:13 PM



#22

Diisopropyl ether

Concen: 20.822 ug/l

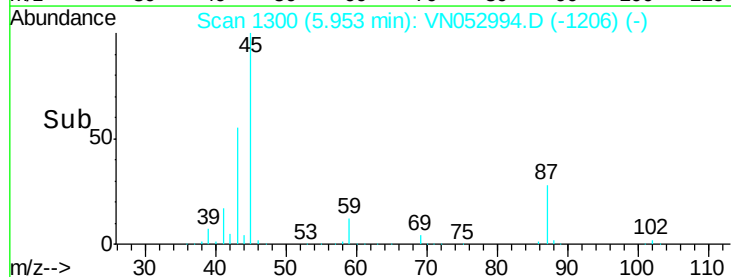
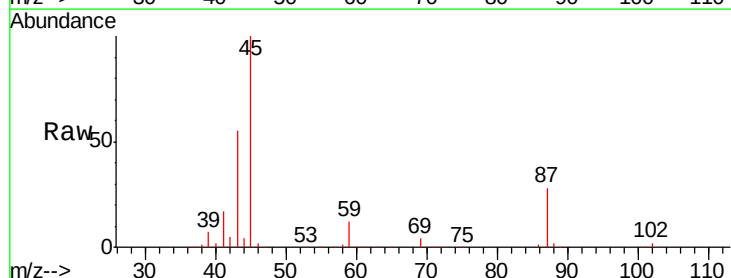
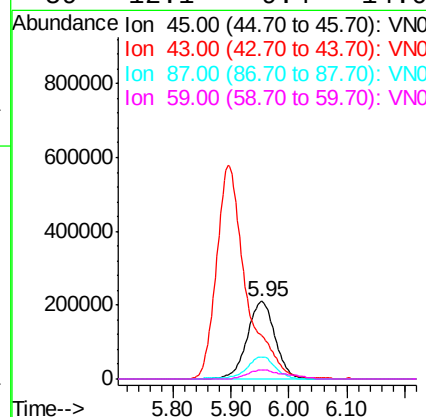
RT: 5.95 min Scan# 1300

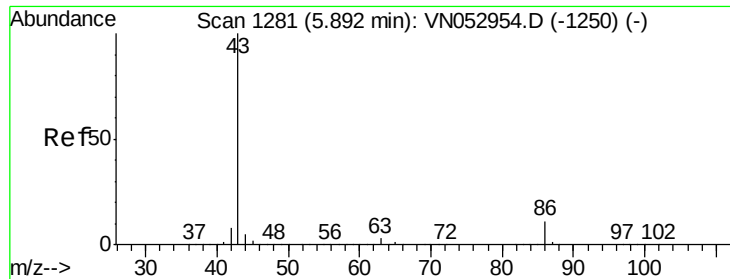
Delta R.T. 0.00 min

Lab File: VN052994.D

Acq: 19 Dec 2018 6:52

Tgt Ion:	45	Resp:	706453
Ion	Ratio	Lower	Upper
45	100		
43	54.4	45.5	68.3
87	28.5	22.0	33.0
59	12.1	9.4	14.0





#23

Vinyl Acetate

Concen: 104.757 ug/l

RT: 5.90 min Scan# 1282

Delta R.T. 0.00 min

Lab File: VN052994.D

Acq: 19 Dec 2018 6:52

Instrument :

MSVOA_N

ClientSampleId :

VN1218MBSD02

Tgt Ion: 43 Resp: 2043804

Ion Ratio Lower Upper

43 100

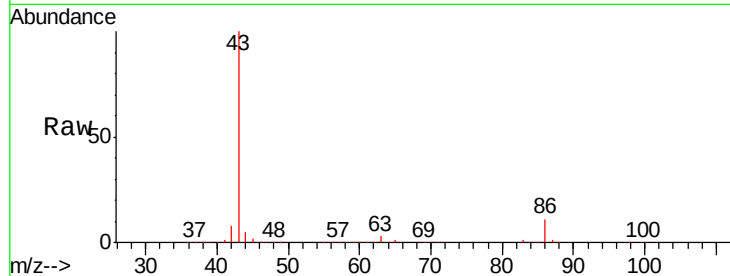
86 10.8 8.1 12.1

Manual Integrations

APPROVED

MMDadoda

12/19/2018 12:08:13 PM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0

5.90

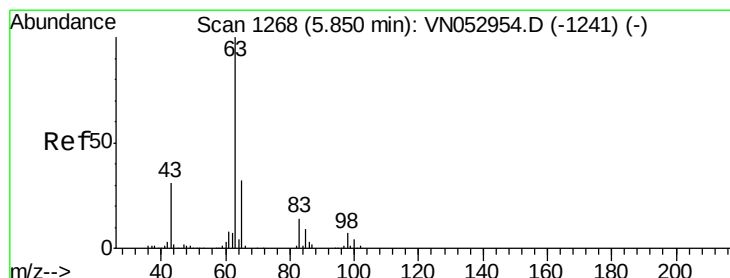
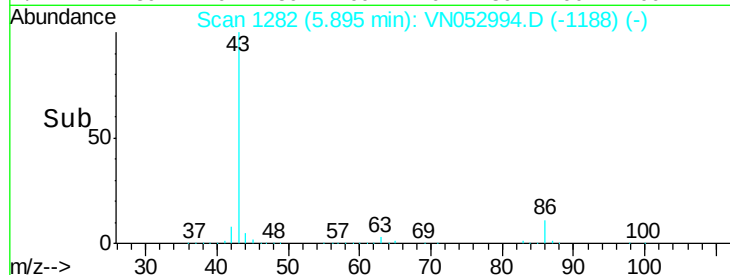
600000

400000

200000

0

Time-->



#24

1,1-Dichloroethane

Concen: 20.093 ug/l

RT: 5.85 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VN052994.D

Acq: 19 Dec 2018 6:52

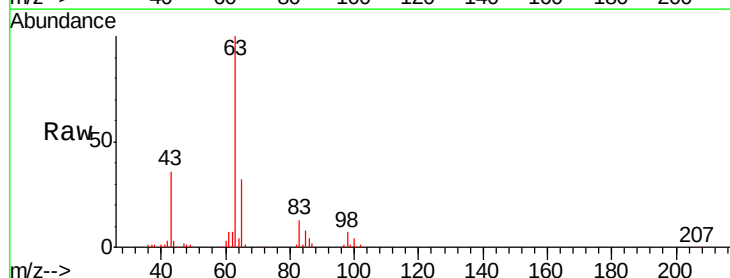
Tgt Ion: 63 Resp: 405108

Ion Ratio Lower Upper

63 100

98 6.9 3.1 9.4

100 4.1 2.0 5.8



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

5.85

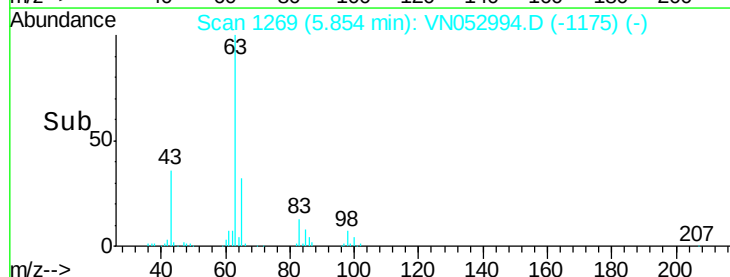
150000

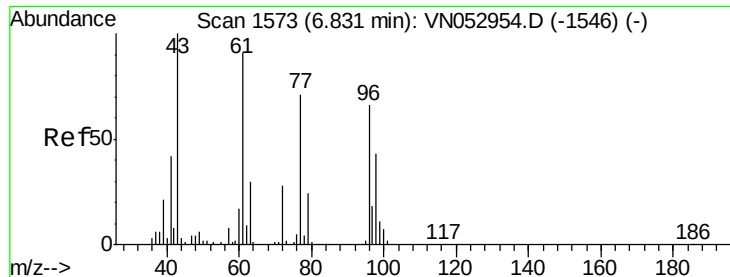
100000

50000

0

Time-->





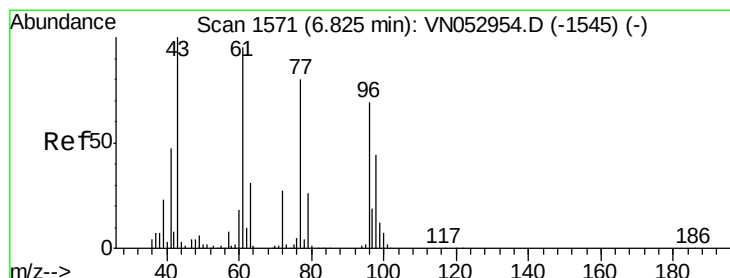
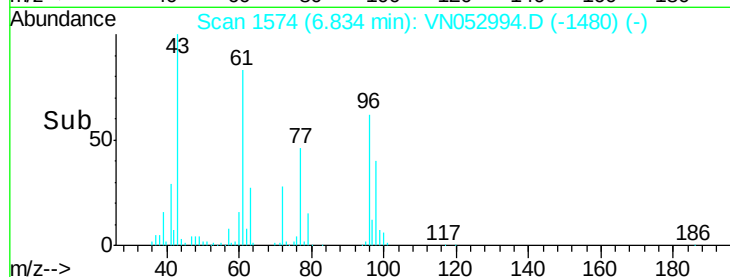
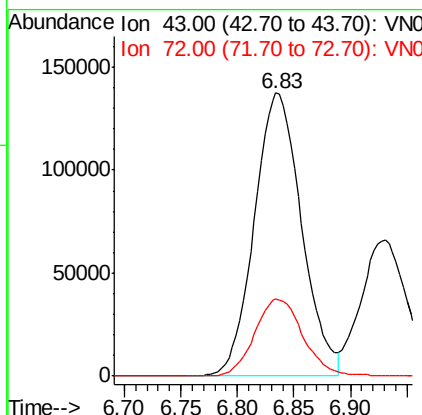
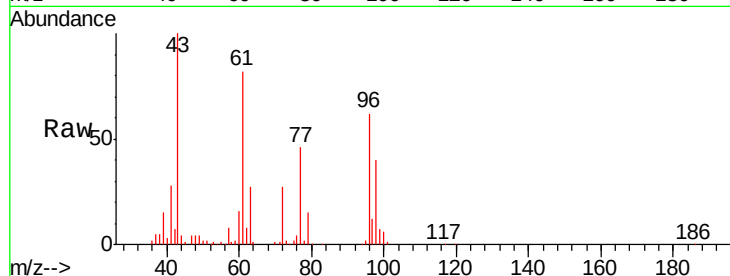
#25
2-Butanone
Concen: 110.257 ug/l
RT: 6.83 min Scan# 1574
Delta R.T. 0.00 min
Lab File: VN052994.D
Acq: 19 Dec 2018 6:52

Instrument :
MSVOA_N
ClientSampleId :
VN1218MBS02

Tgt Ion: 43 Resp: 396392
Ion Ratio Lower Upper
43 100
72 27.5 21.0 31.6

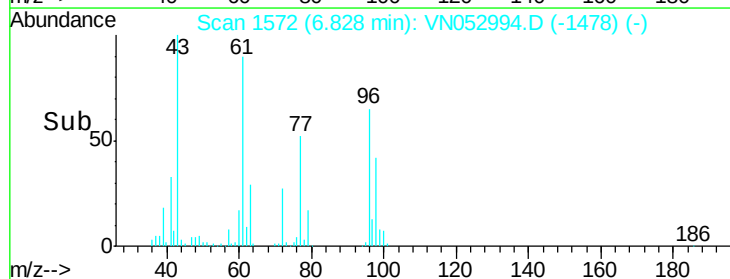
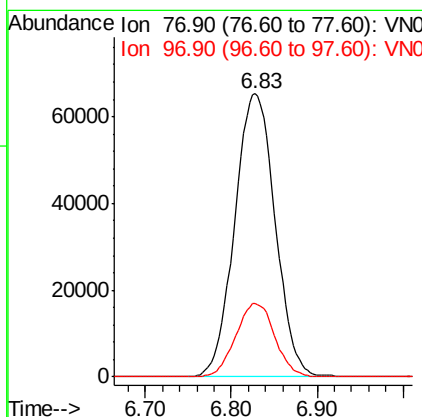
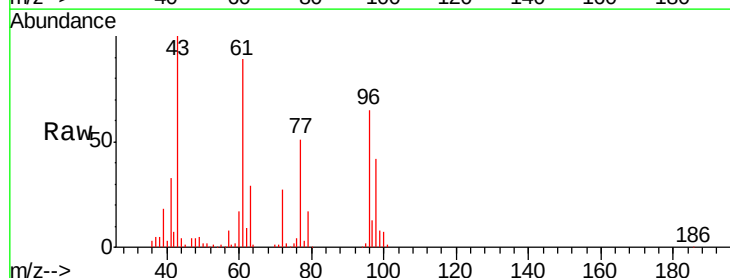
Manual Integrations
APPROVED

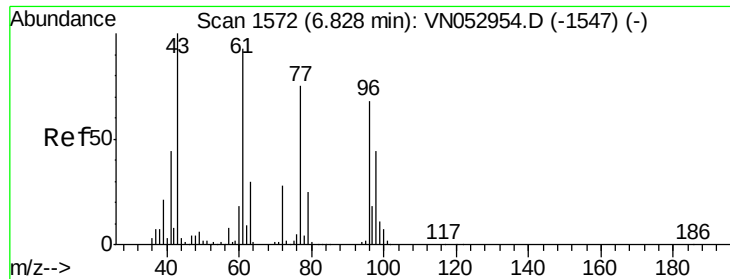
MMDadoda
12/19/2018 12:08:13 PM



#26
2,2-Dichloropropane
Concen: 13.855 ug/l
RT: 6.83 min Scan# 1572
Delta R.T. 0.00 min
Lab File: VN052994.D
Acq: 19 Dec 2018 6:52

Tgt Ion: 77 Resp: 213228
Ion Ratio Lower Upper
77 100
97 25.1 11.9 35.9





#27

cis-1,2-Dichloroethene

Concen: 20.010 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. 0.01 min

Lab File: VN052994.D

Acq: 19 Dec 2018 6:52

Instrument :

MSVOA_N

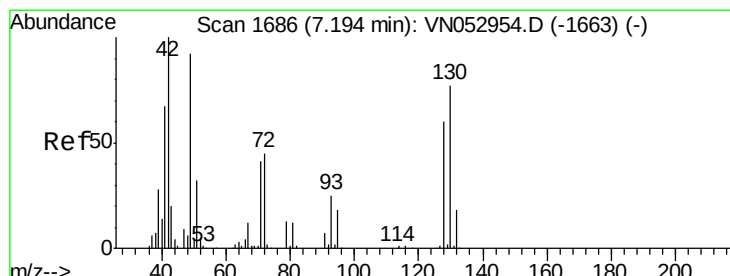
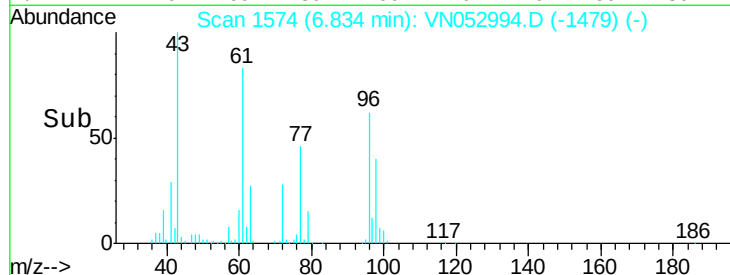
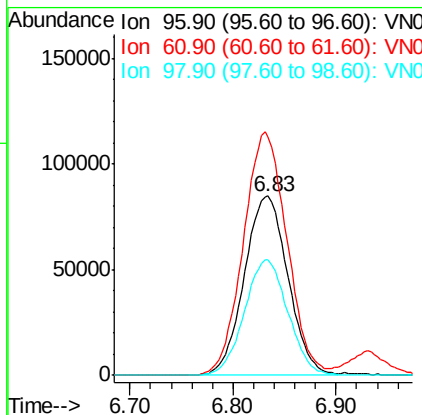
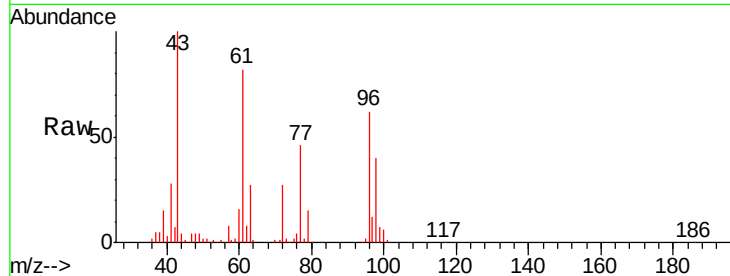
ClientSampleId :

VN1218MBS02

Tgt Ion:	96	Resp:	249759
Ion	Ratio	Lower	Upper
96	100		
61	135.0	0.0	284.2
98	64.2	0.0	129.2

Manual Integrations
APPROVED

MMDadoda
12/19/2018 12:08:13 PM



#28

Bromochloromethane

Concen: 21.038 ug/l

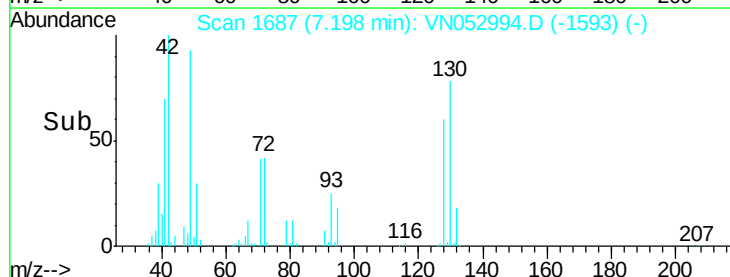
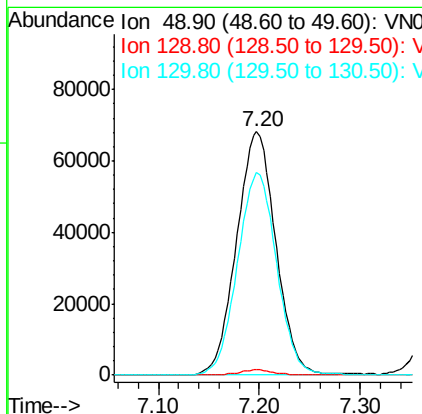
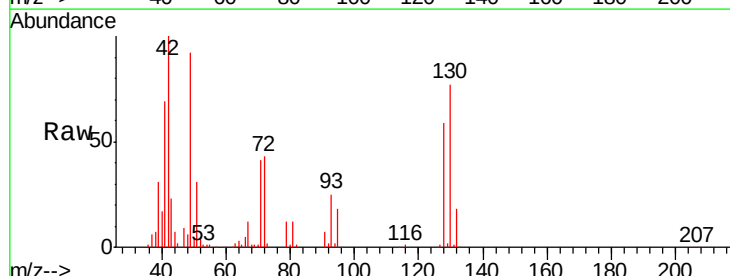
RT: 7.20 min Scan# 1687

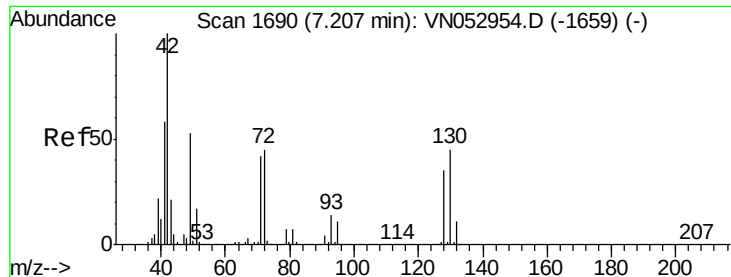
Delta R.T. 0.00 min

Lab File: VN052994.D

Acq: 19 Dec 2018 6:52

Tgt Ion:	49	Resp:	183793
Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	4.0
130	83.0	63.3	94.9





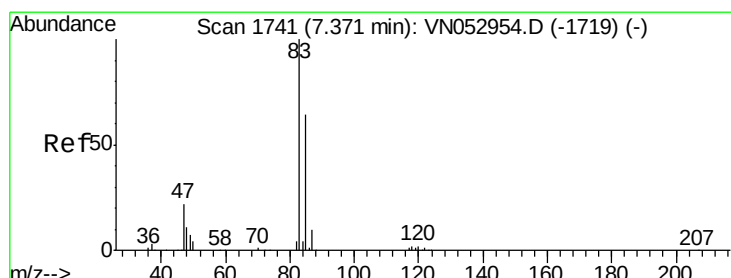
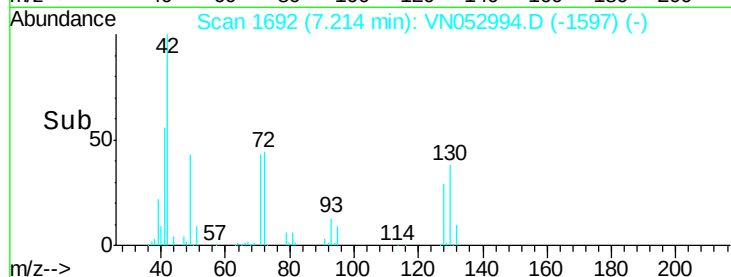
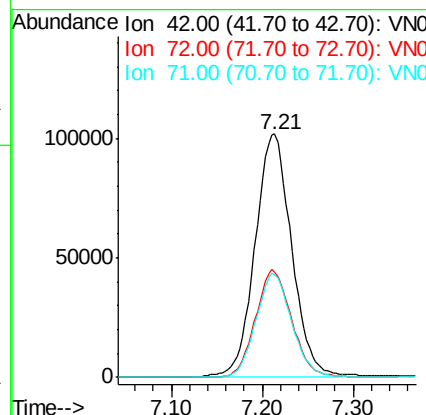
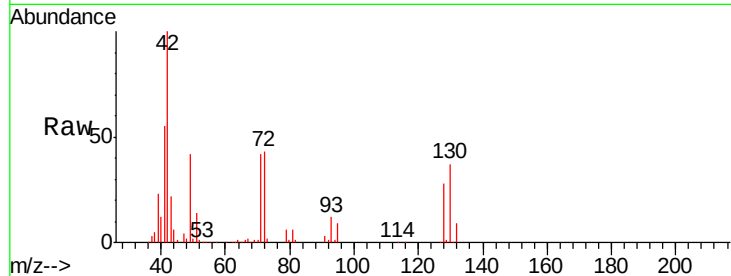
#29
Tetrahydrofuran
Concen: 106.003 ug/l
RT: 7.21 min Scan# 1692
Delta R.T. 0.01 min
Lab File: VN052994.D
Acq: 19 Dec 2018 6:52

Instrument :
MSVOA_N
ClientSampleId :
VN1218MBSD02

Tgt Ion	Ratio	Lower	Upper
42	100		
72	43.5	34.7	52.1
71	41.8	32.3	48.5

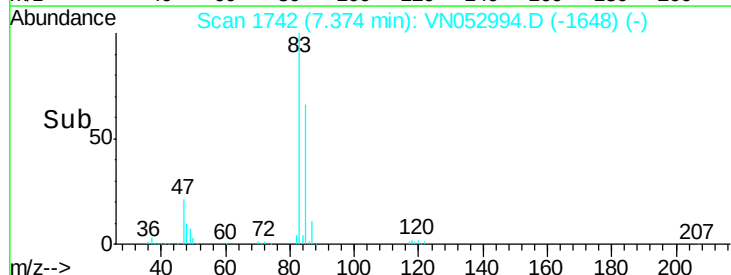
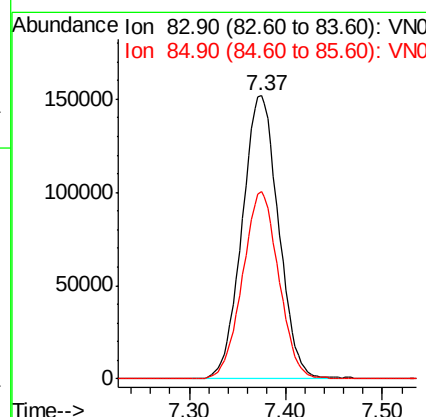
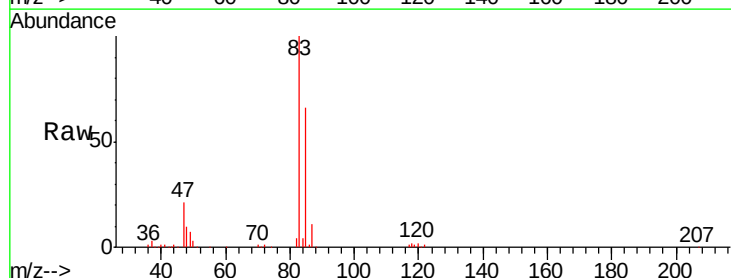
Manual Integrations
APPROVED

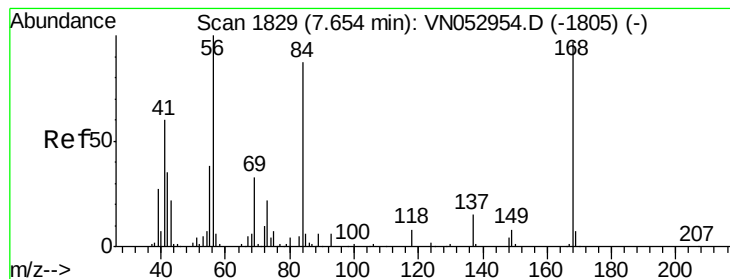
MMDadoda
12/19/2018 12:08:13 PM



#30
Chloroform
Concen: 20.061 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN052994.D
Acq: 19 Dec 2018 6:52

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.3	52.1	78.1





#31

Cyclohexane

Concen: 19.681 ug/l

RT: 7.66 min Scan# 1830

Delta R.T. 0.00 min

Lab File: VN052994.D

Acq: 19 Dec 2018 6:52

Instrument :

MSVOA_N

ClientSampleId :

VN1218MBSD02

Tgt Ion: 56 Resp: 384196
Ion Ratio Lower Upper

56 100

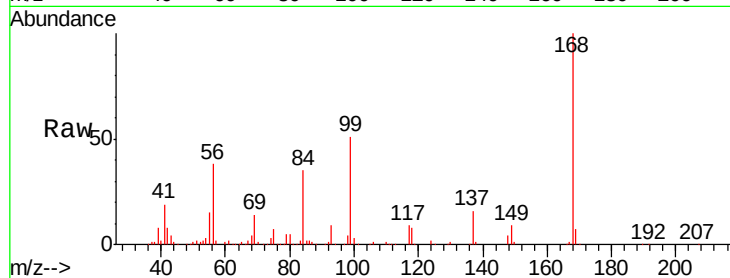
69 36.9 26.6 39.8

84 90.5 68.4 102.6

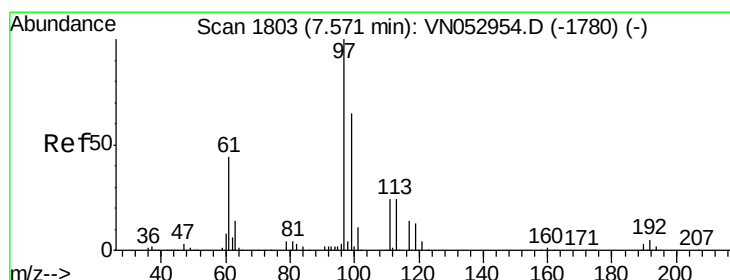
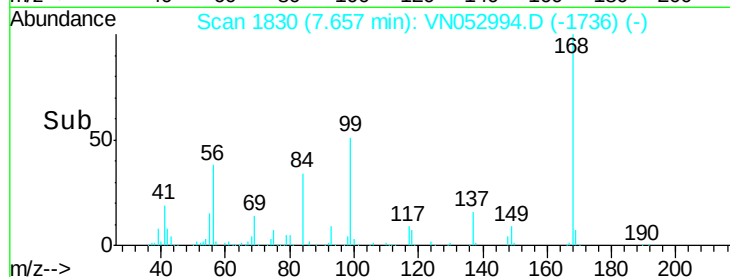
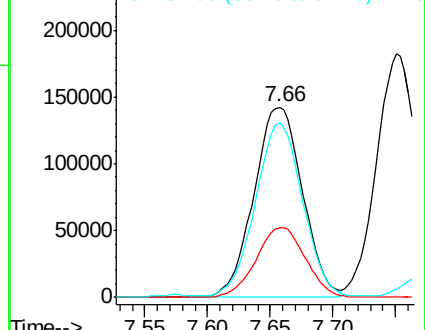
Manual Integrations
APPROVED

MMDadoda

12/19/2018 12:08:13 PM



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



#32

1,1,1-Trichloroethane

Concen: 19.610 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. 0.00 min

Lab File: VN052994.D

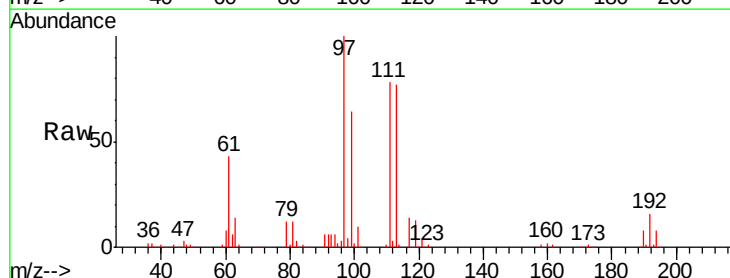
Acq: 19 Dec 2018 6:52

Tgt Ion: 97 Resp: 330846
Ion Ratio Lower Upper

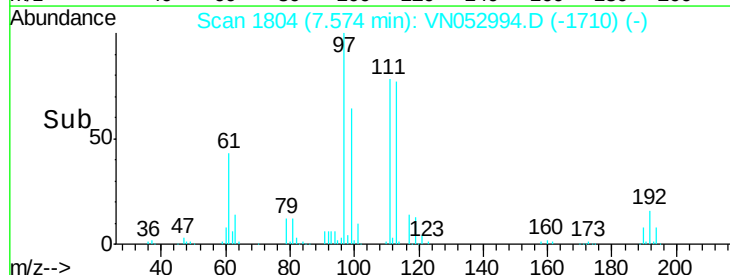
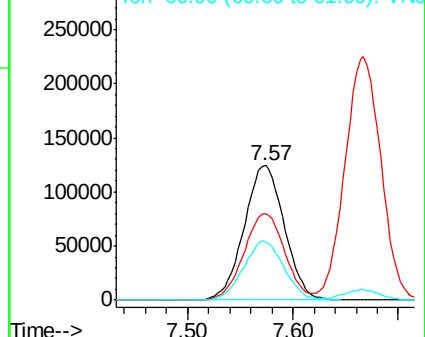
97 100

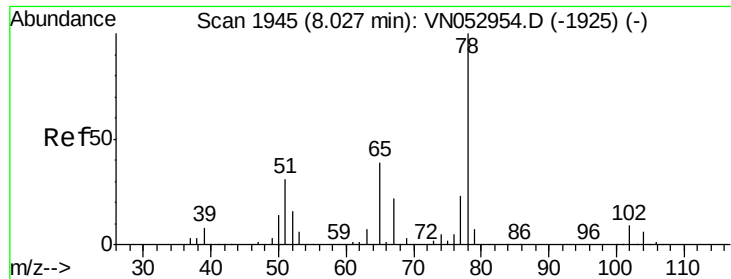
99 65.0 51.1 76.7

61 44.0 35.0 52.6



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





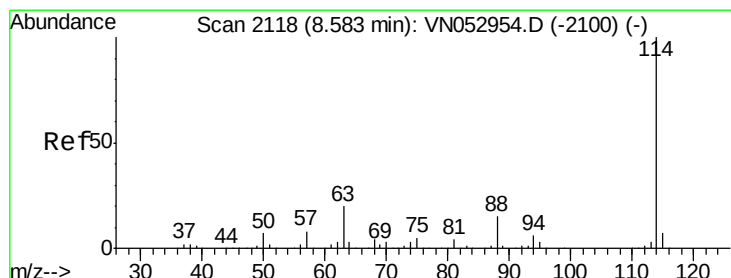
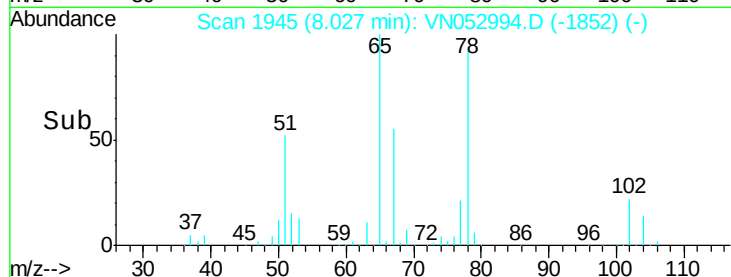
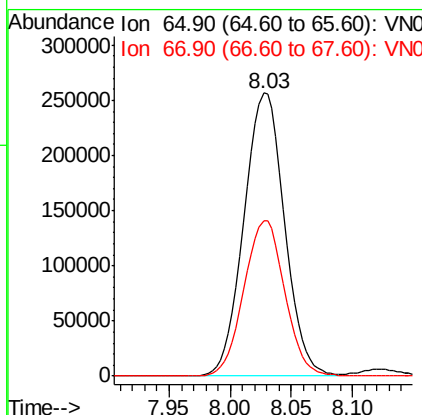
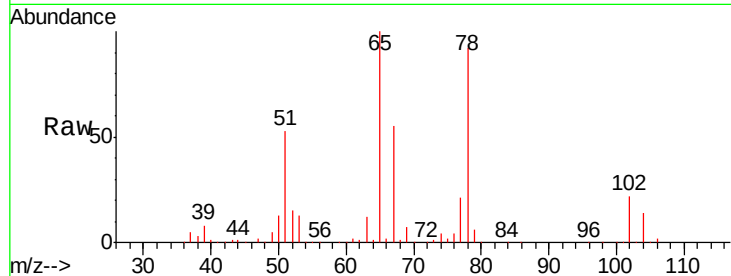
#33
 1,2-Dichloroethane-d4
 Concen: 19.610 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN052994.D
 Acq: 19 Dec 2018 6:52

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1218MBSD02

Tgt Ion: 65 Resp: 591718
 Ion Ratio Lower Upper
 65 100
 67 55.3 0.0 110.4

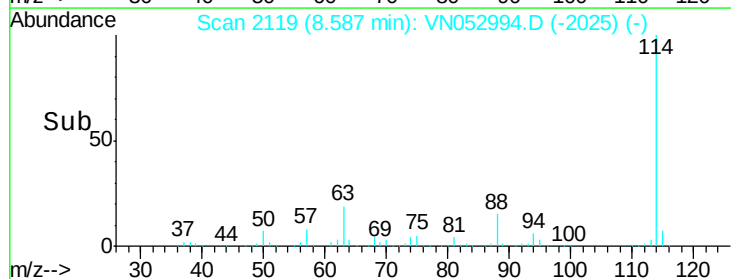
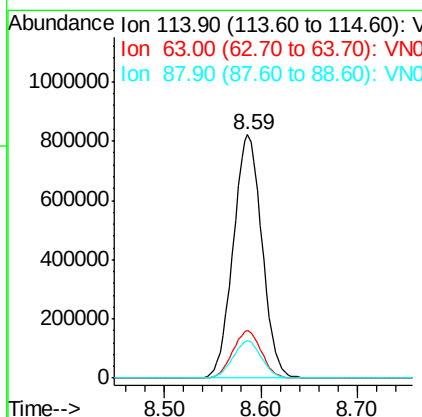
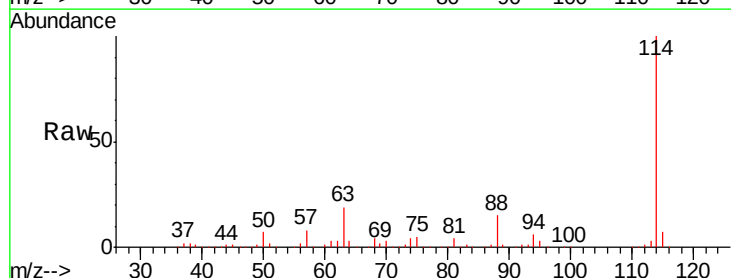
Manual Integrations
 APPROVED

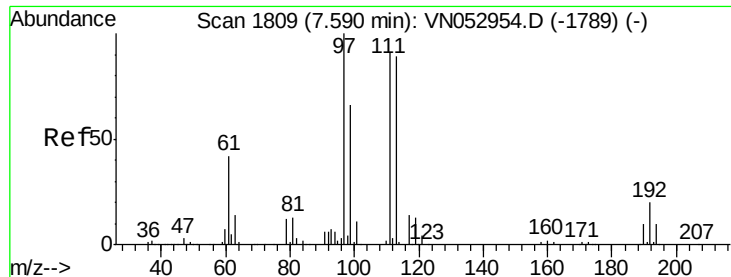
MMDadoda
 12/19/2018 12:08:13 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN052994.D
 Acq: 19 Dec 2018 6:52

Tgt Ion: 114 Resp: 1692112
 Ion Ratio Lower Upper
 114 100
 63 19.4 0.0 39.8
 88 15.4 0.0 31.0





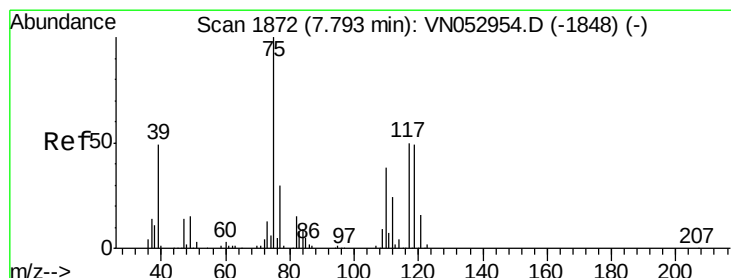
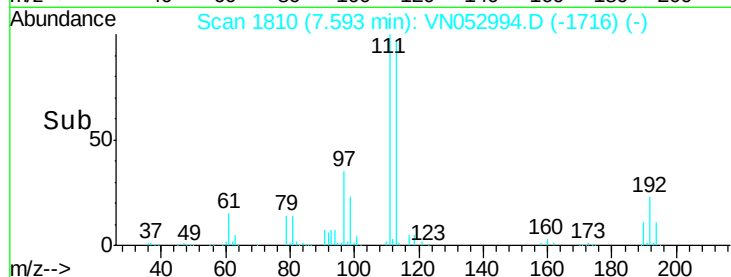
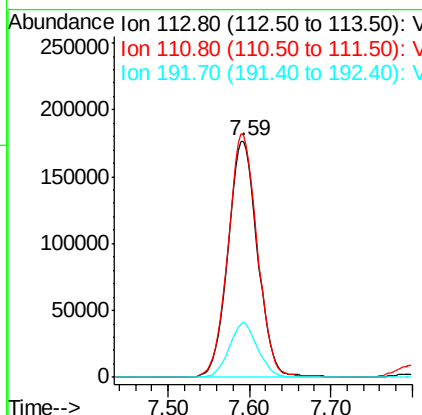
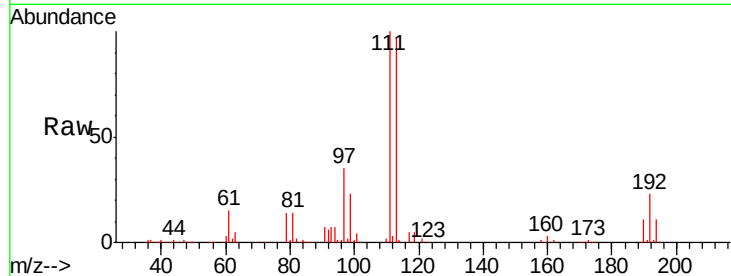
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN052994.D
 Acq: 19 Dec 2018 6:52

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1218MBSD02

Tgt Ion	Ratio	Resp	Lower	Upper
113	100	446344		
111	102.7	83.0	124.4	
192	22.3	17.5	26.3	

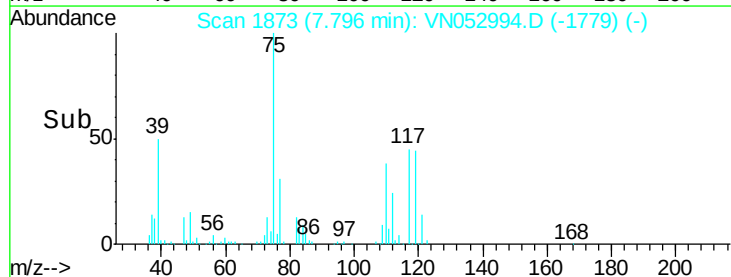
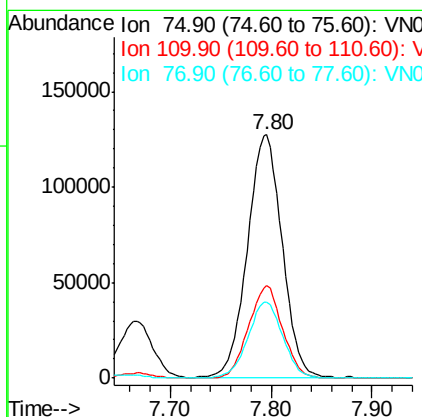
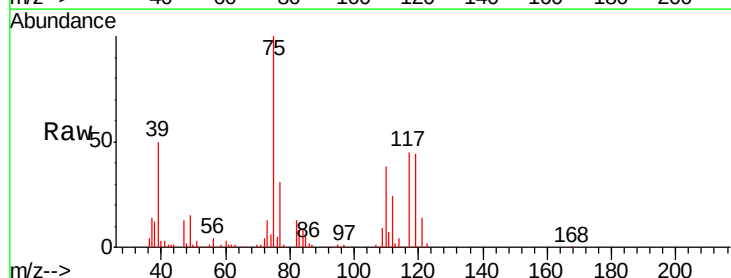
Manual Integrations
 APPROVED

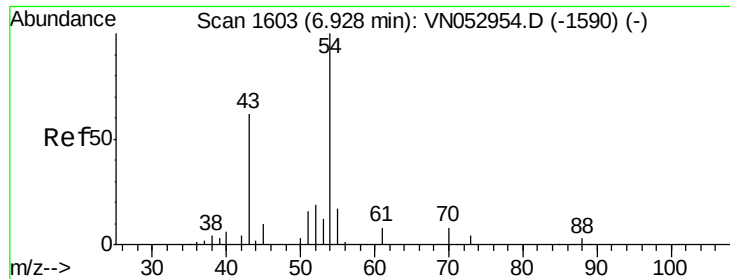
MMDadoda
 12/19/2018 12:08:13 PM



#36
 1,1-Dichloropropene
 Concen: 18.631 ug/l
 RT: 7.80 min Scan# 1873
 Delta R.T. 0.00 min
 Lab File: VN052994.D
 Acq: 19 Dec 2018 6:52

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	302585		
110	37.1	18.2	54.6	
77	31.5	24.9	37.3	





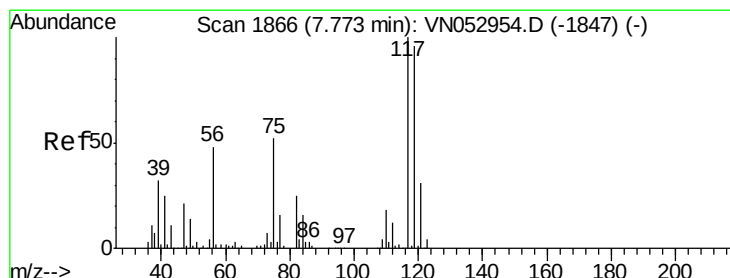
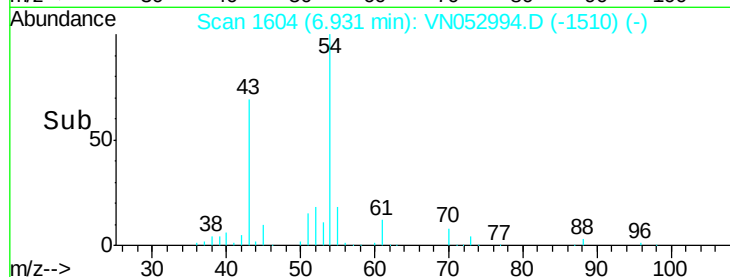
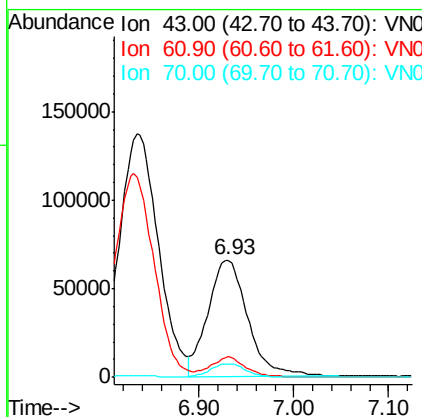
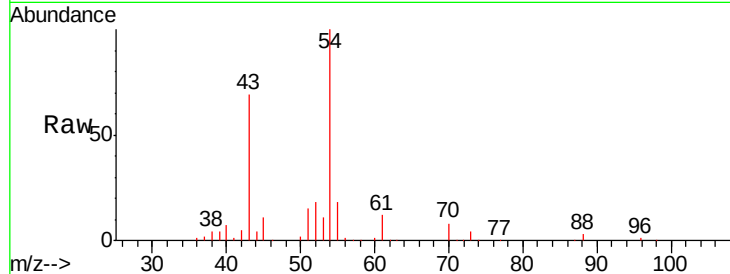
#37
Ethyl Acetate
Concen: 20.987 ug/l
RT: 6.93 min Scan# 1604
Delta R.T. 0.00 min
Lab File: VN052994.D
Acq: 19 Dec 2018 6:52

Instrument :
MSVOA_N
ClientSampleId :
VN1218MBSD02

Tgt Ion	Ratio	Lower	Upper
43	100		
61	15.1	11.8	17.6
70	10.9	8.4	12.6

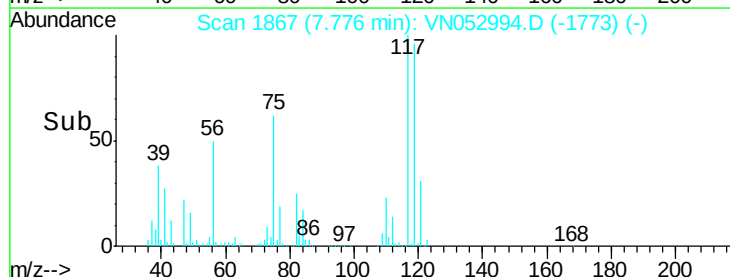
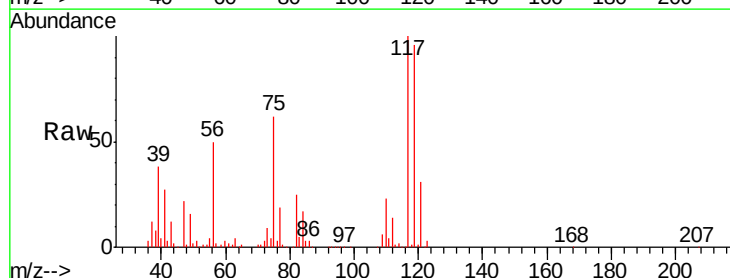
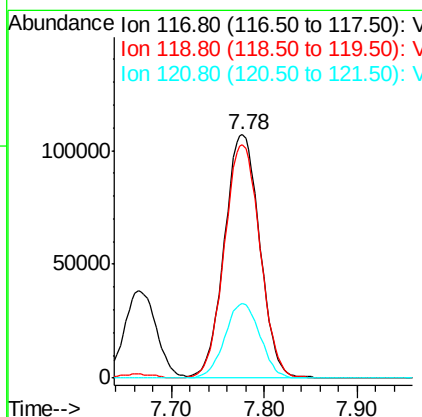
Manual Integrations
APPROVED

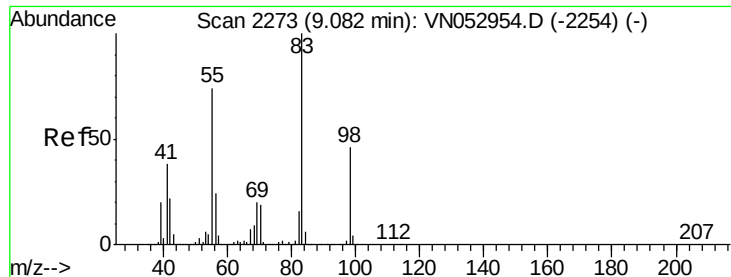
MMDadoda
12/19/2018 12:08:13 PM



#38
Carbon Tetrachloride
Concen: 18.956 ug/l
RT: 7.78 min Scan# 1867
Delta R.T. 0.00 min
Lab File: VN052994.D
Acq: 19 Dec 2018 6:52

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.8	77.1	115.7
121	30.8	24.9	37.3





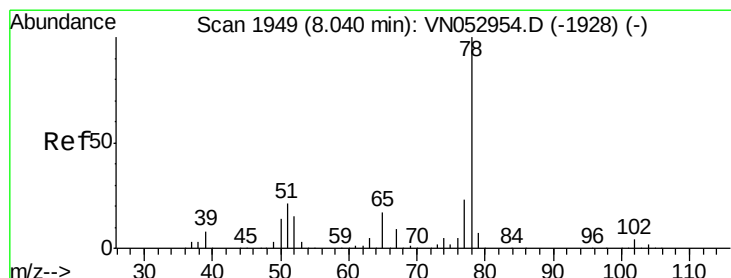
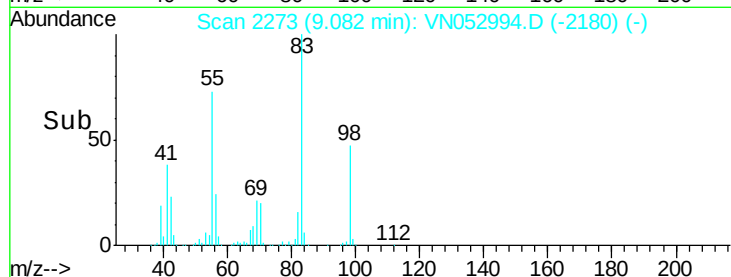
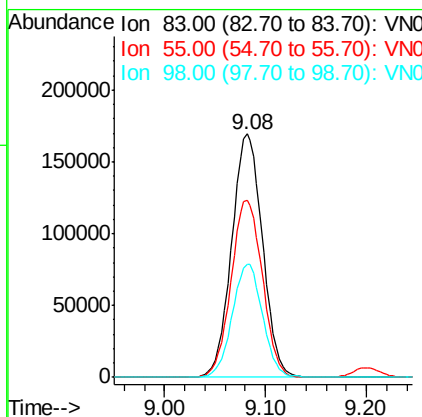
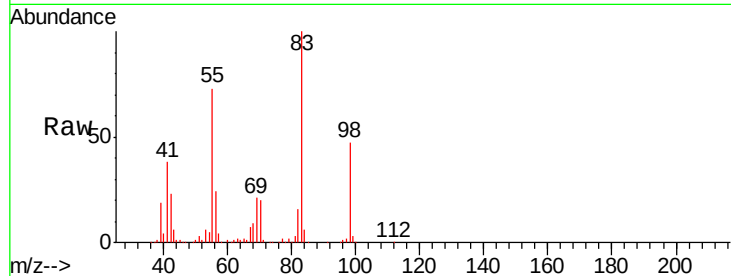
#39
Methylcyclohexane
Concen: 18.192 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. -0.00 min
Lab File: VN052994.D
Acq: 19 Dec 2018 6:52

Instrument :
MSVOA_N
ClientSampleId :
VN1218MBSD02

Tgt Ion	Ratio	Resp	Lower	Upper
83	100	358932		
55	72.8	61.3	91.9	
98	46.6	37.0	55.4	

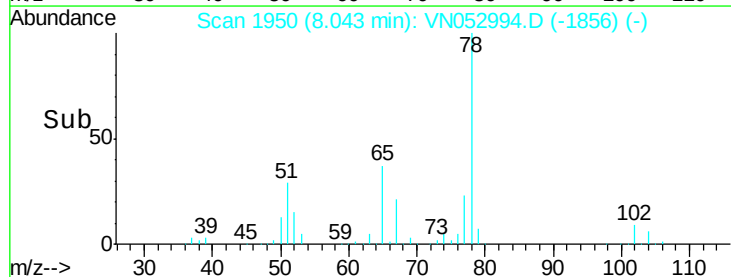
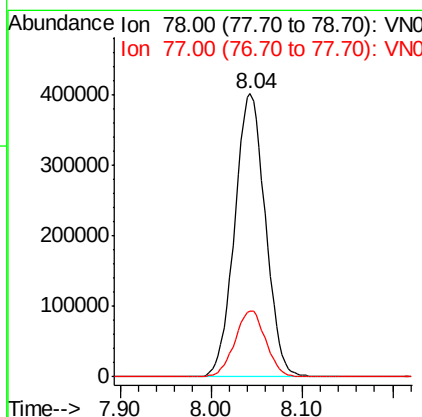
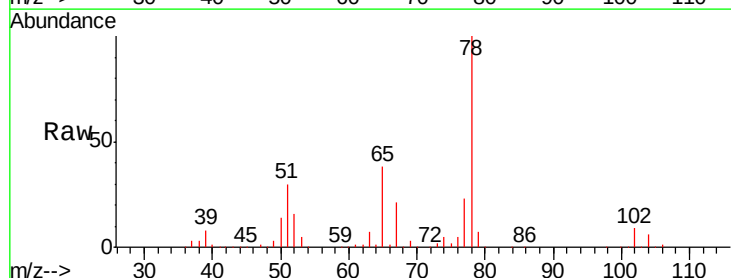
Manual Integrations
APPROVED

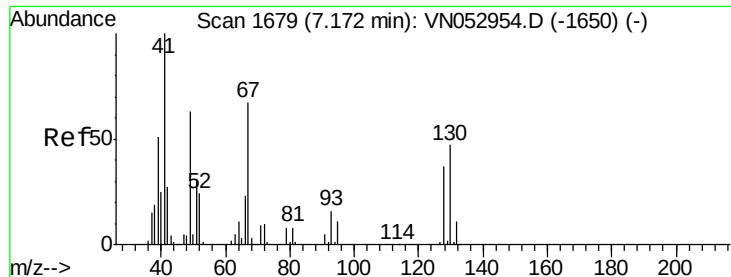
MMDadoda
12/19/2018 12:08:13 PM



#40
Benzene
Concen: 19.500 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN052994.D
Acq: 19 Dec 2018 6:52

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	942033		
77	23.4	18.5	27.7	





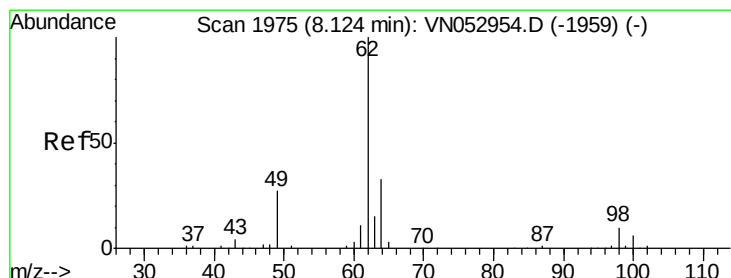
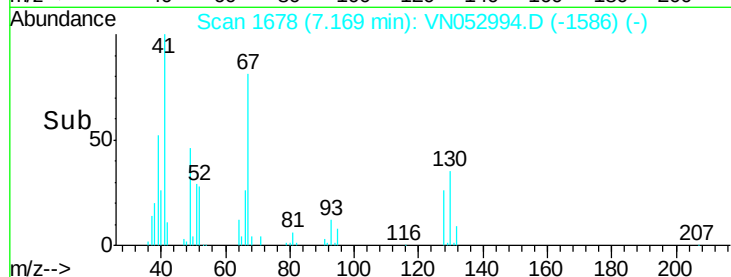
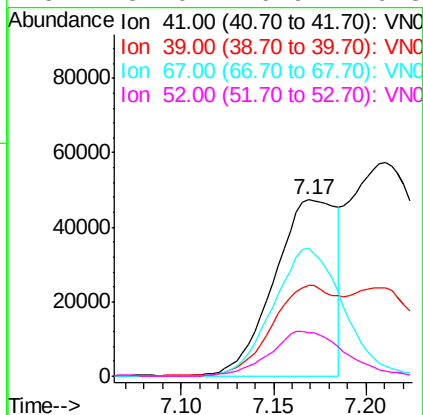
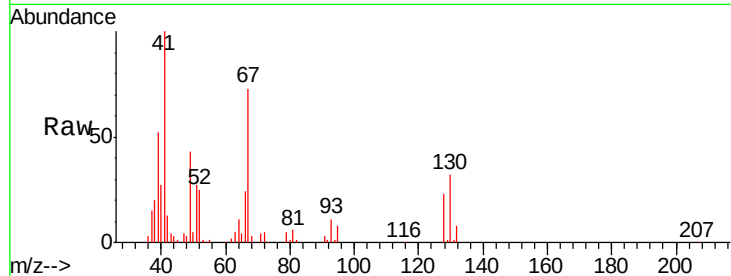
#41
Methacrylonitrile
Concen: 21.107 ug/l
RT: 7.17 min Scan# 1678
Delta R.T. -0.00 min
Lab File: VN052994.D
Acq: 19 Dec 2018 6:52

Instrument :
MSVOA_N
ClientSampleId :
VN1218MBSD02

Tgt Ion	Ratio	Lower	Upper
41	100		
39	54.4	48.0	72.0
67	82.8	70.3	105.5
52	31.0	26.9	40.3

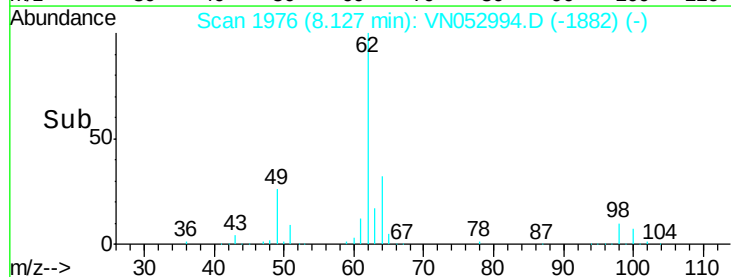
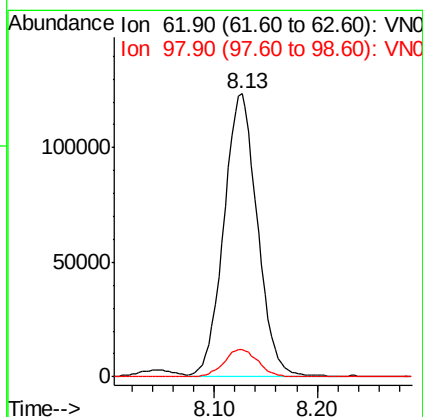
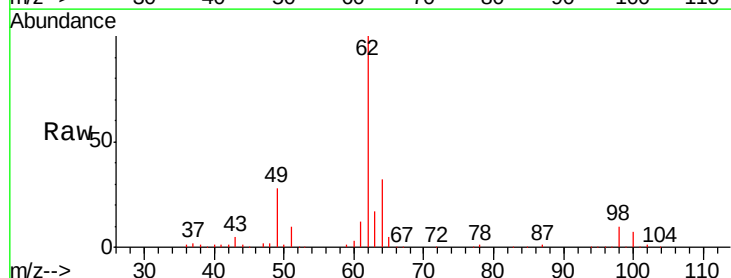
Manual Integrations
APPROVED

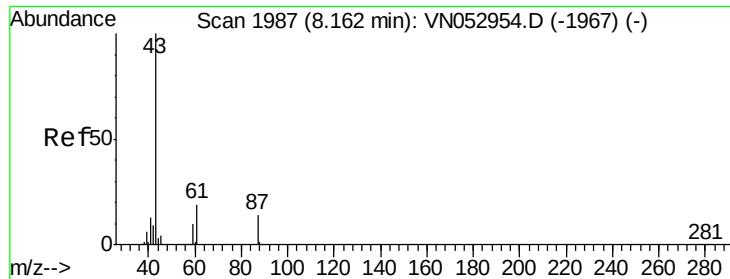
MMDadoda
12/19/2018 12:08:13 PM



#42
1,2-Dichloroethane
Concen: 19.506 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN052994.D
Acq: 19 Dec 2018 6:52

Tgt Ion	Ratio	Lower	Upper
62	100		
98	10.0	0.0	19.0





#43

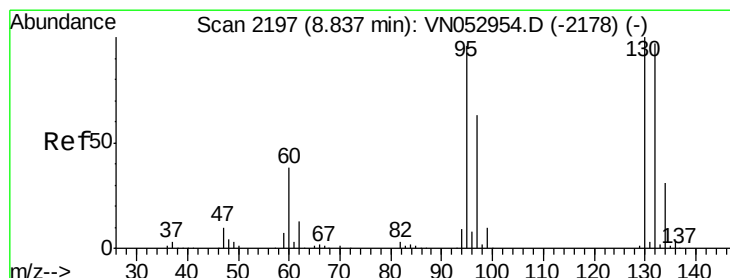
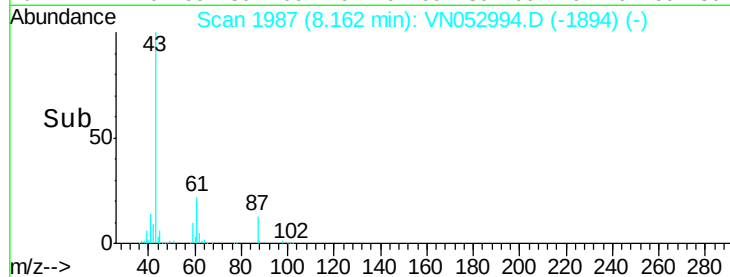
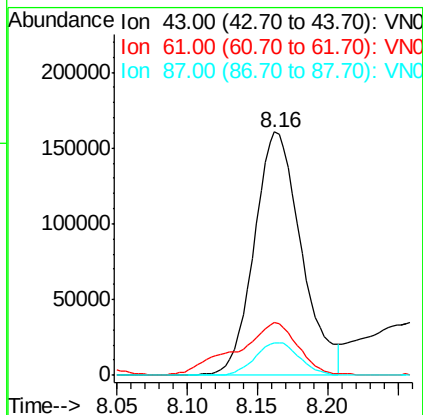
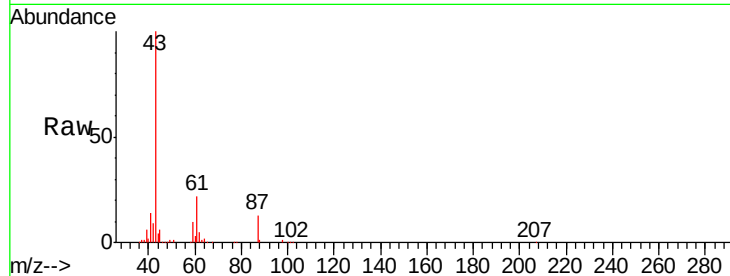
Isopropyl Acetate
 Concen: 20.521 ug/l
 RT: 8.16 min Scan# 1987
 Delta R.T. 0.00 min
 Lab File: VN052994.D
 Acq: 19 Dec 2018 6:52

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1218MBSD02

Tgt Ion	Ratio	Lower	Upper
43	100		
61	27.6	22.9	34.3
87	12.8	10.6	15.8

Manual Integrations
 APPROVED

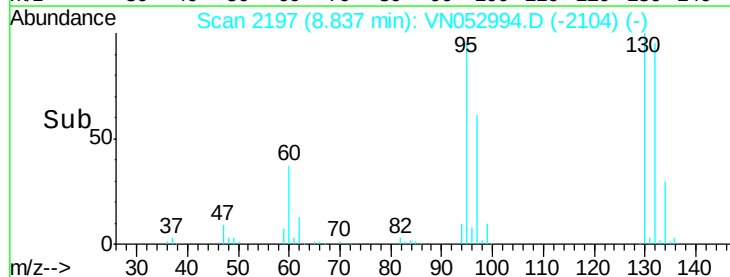
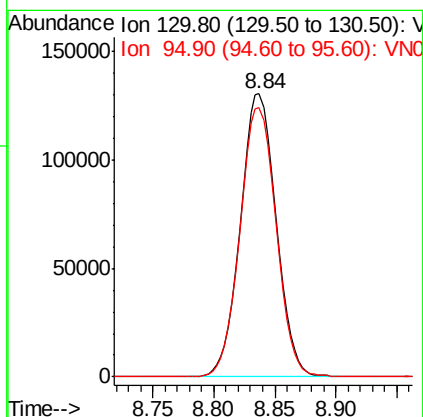
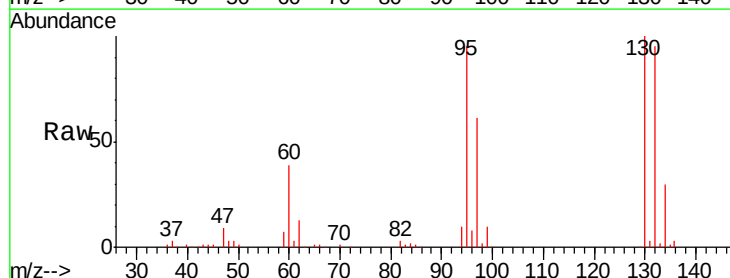
MMDadoda
 12/19/2018 12:08:13 PM

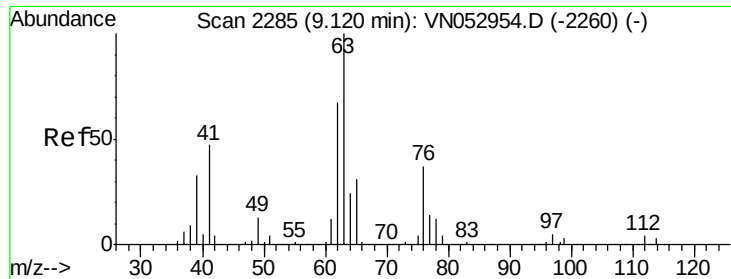


#44

Trichloroethene
 Concen: 18.917 ug/l
 RT: 8.84 min Scan# 2197
 Delta R.T. -0.00 min
 Lab File: VN052994.D
 Acq: 19 Dec 2018 6:52

Tgt Ion	Ratio	Lower	Upper
130	100		
95	95.1	0.0	197.8





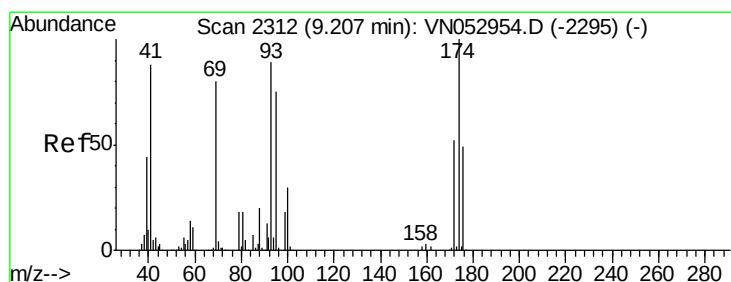
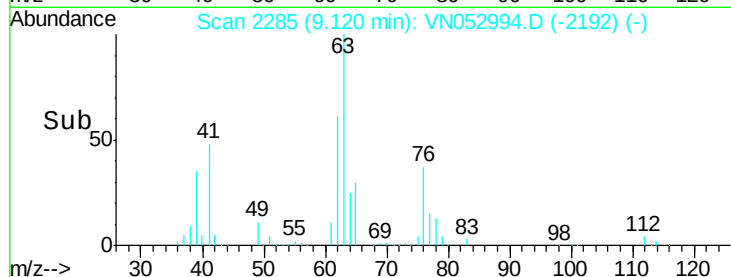
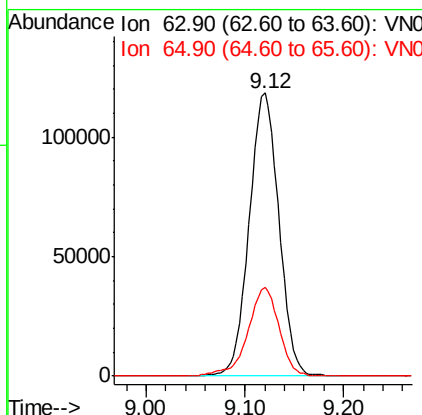
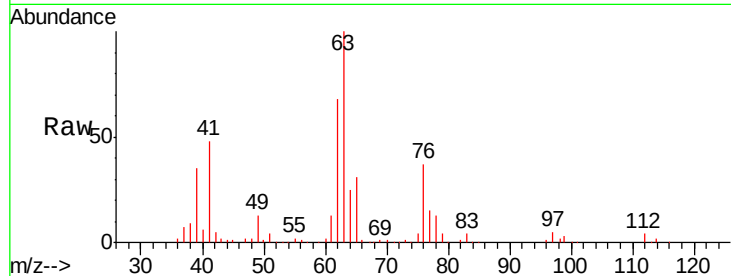
#45
 1,2-Dichloropropane
 Concen: 19.559 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. -0.00 min
 Lab File: VN052994.D
 Acq: 19 Dec 2018 6:52

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1218MBS02

Tgt Ion: 63 Resp: 246114
 Ion Ratio Lower Upper
 63 100
 65 31.2 24.6 37.0

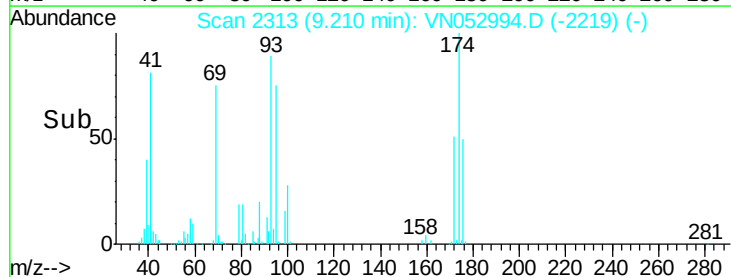
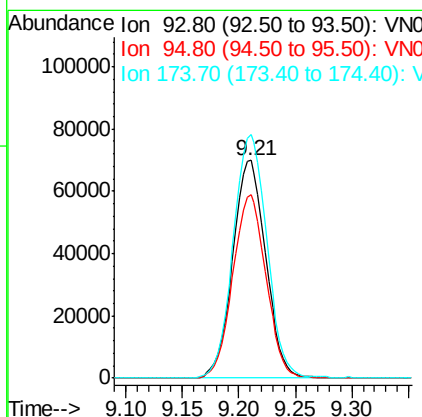
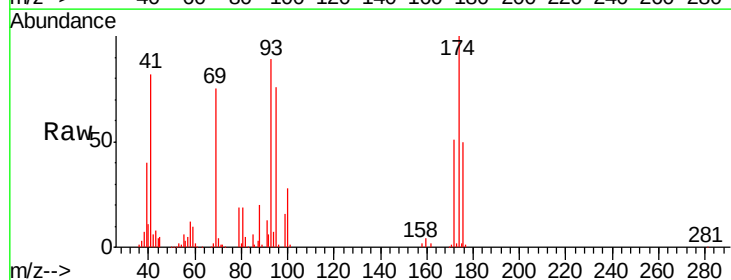
Manual Integrations
 APPROVED

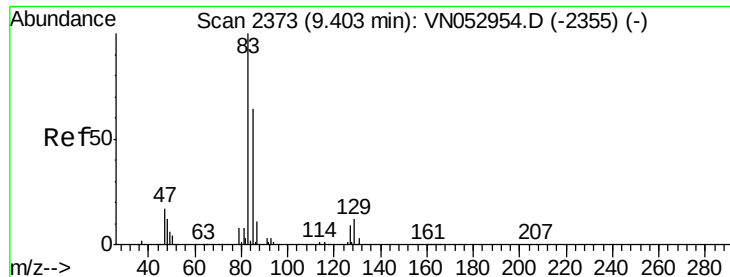
MMDadoda
 12/19/2018 12:08:13 PM



#46
 Dibromomethane
 Concen: 19.449 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN052994.D
 Acq: 19 Dec 2018 6:52

Tgt Ion: 93 Resp: 142564
 Ion Ratio Lower Upper
 93 100
 95 84.8 67.8 101.6
 174 113.9 89.0 133.4





#47

Bromodichloromethane

Concen: 19.184 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. -0.00 min

Lab File: VN052994.D

Acq: 19 Dec 2018 6:52

Instrument :

MSVOA_N

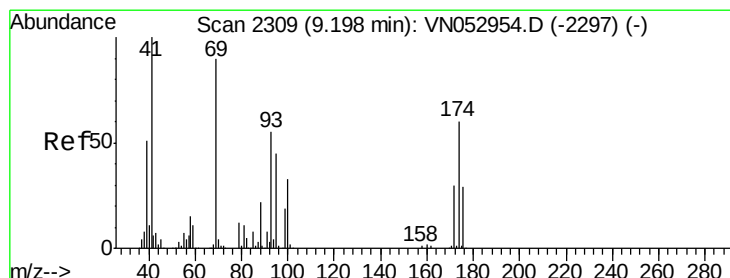
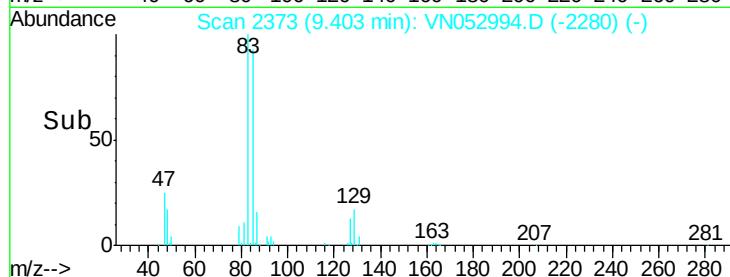
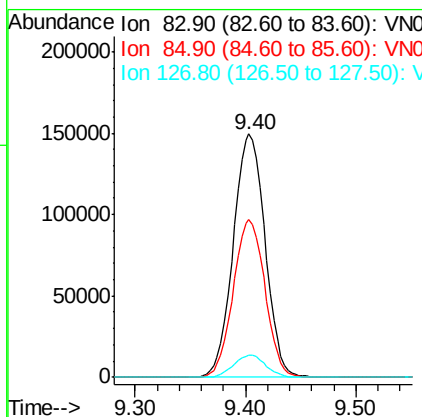
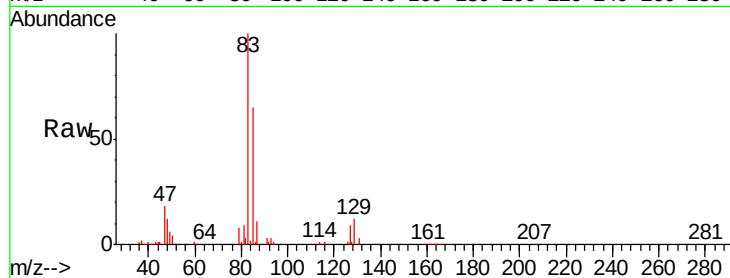
ClientSampleId :

VN1218MBSD02

Tgt Ion:	83	Resp:	298924
Ion	Ratio	Lower	Upper
83	100		
85	65.1	51.6	77.4
127	9.0	7.1	10.7

Manual Integrations
APPROVED

MMDadoda
12/19/2018 12:08:13 PM



#48

Methyl methacrylate

Concen: 19.763 ug/l

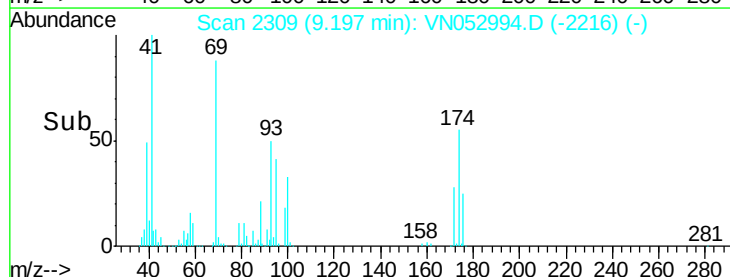
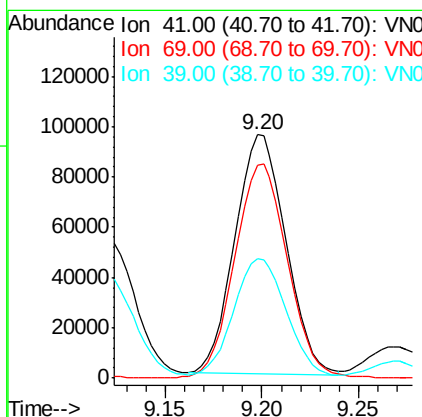
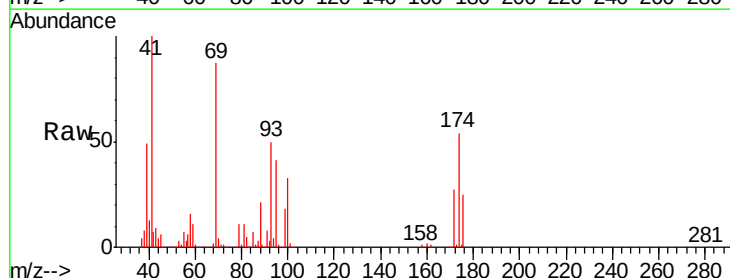
RT: 9.20 min Scan# 2309

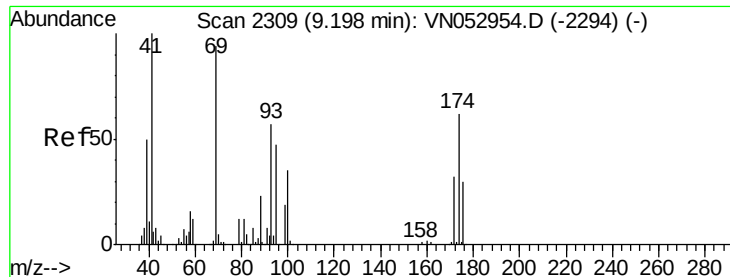
Delta R.T. -0.00 min

Lab File: VN052994.D

Acq: 19 Dec 2018 6:52

Tgt Ion:	41	Resp:	173876
Ion	Ratio	Lower	Upper
41	100		
69	93.4	72.2	108.2
39	52.4	41.9	62.9





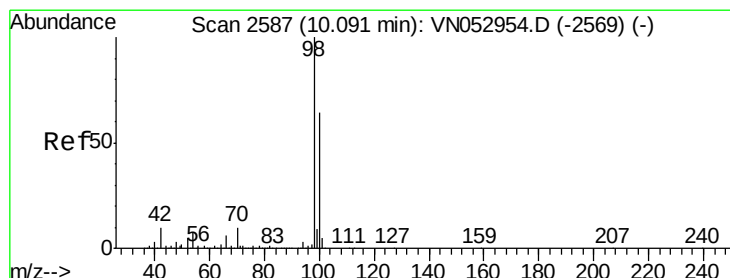
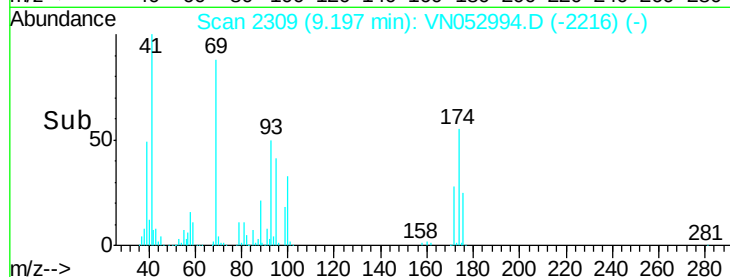
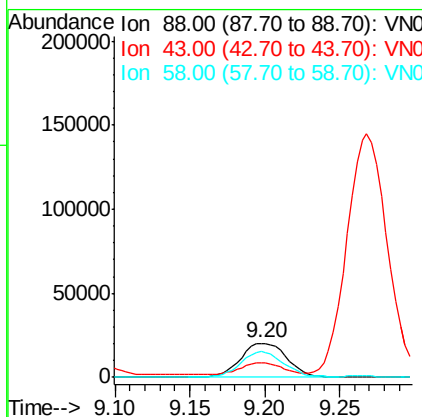
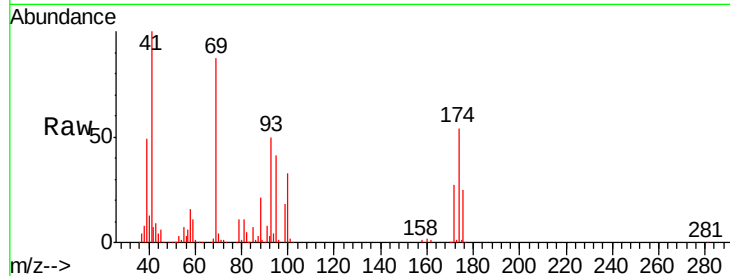
#49
1,4-Dioxane
Concen: 395.447 ug/l
RT: 9.20 min Scan# 2309
Delta R.T. -0.00 min
Lab File: VN052994.D
Acq: 19 Dec 2018 6:52

Instrument :
MSVOA_N
ClientSampleId :
VN1218MBSD02

Tgt Ion	Ratio	Lower	Upper
88	100		
43	31.7	26.6	40.0
58	70.9	58.4	87.6

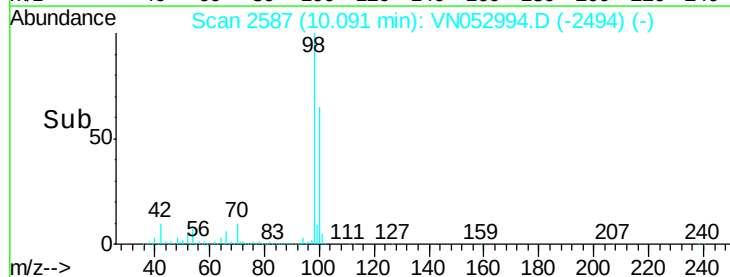
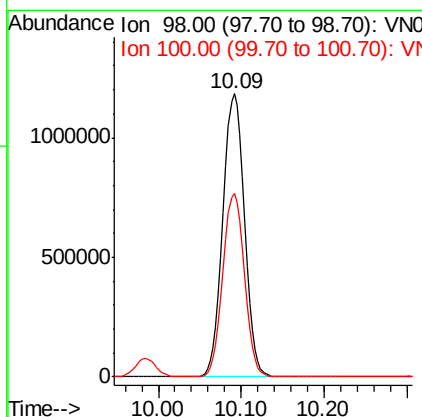
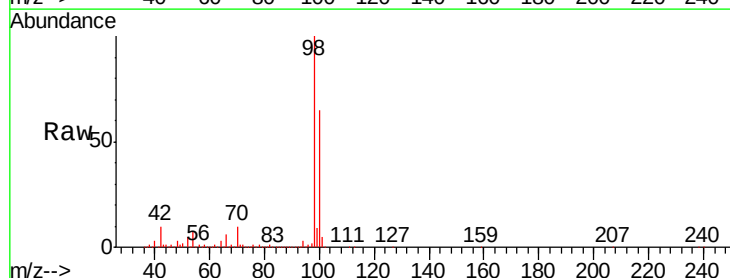
Manual Integrations
APPROVED

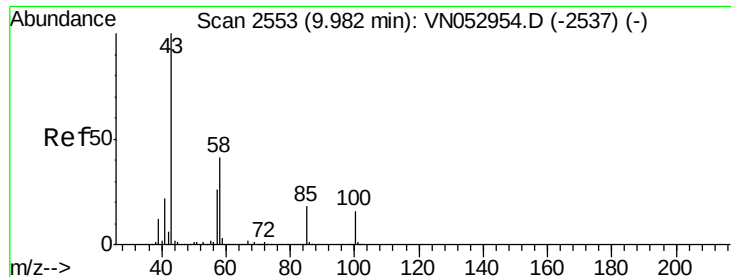
MMDadoda
12/19/2018 12:08:13 PM



#50
Toluene-d8
Concen: 395.447 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN052994.D
Acq: 19 Dec 2018 6:52

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.6	51.6	77.4





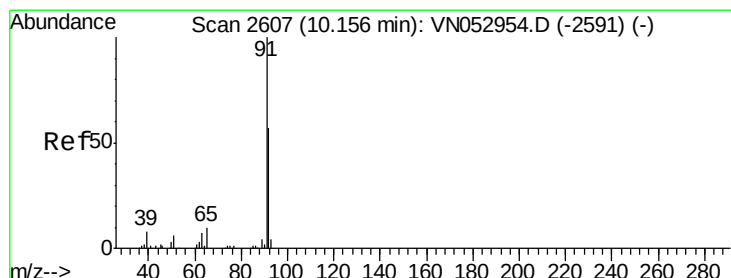
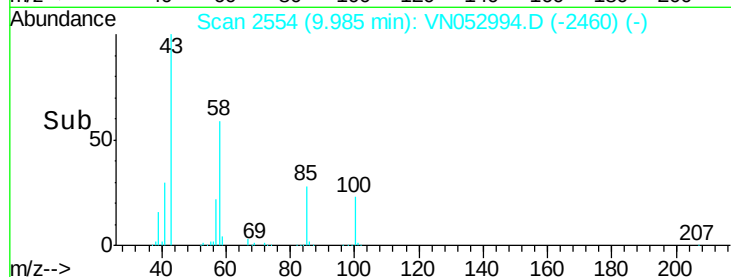
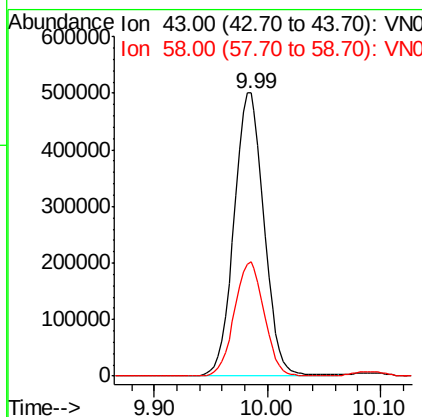
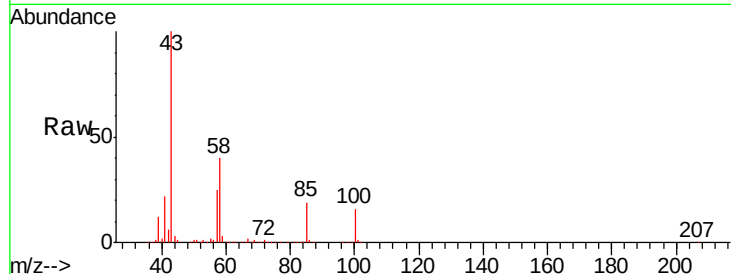
#51
 4-Methyl-2-Pentanone
 Concen: 104.453 ug/l
 RT: 9.99 min Scan# 2554
 Delta R.T. 0.00 min
 Lab File: VN052994.D
 Acq: 19 Dec 2018 6:52

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1218MBSD02

Tgt Ion: 43 Resp: 917139
 Ion Ratio Lower Upper
 43 100
 58 40.4 32.2 48.4

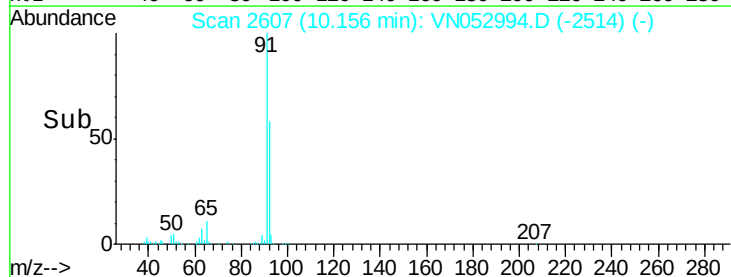
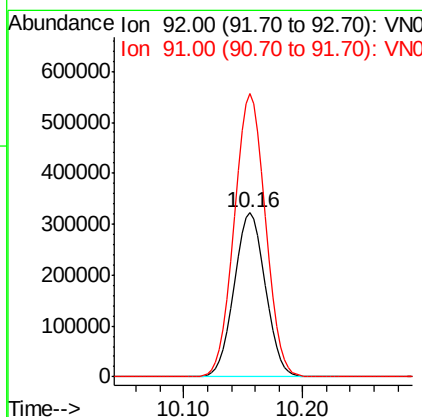
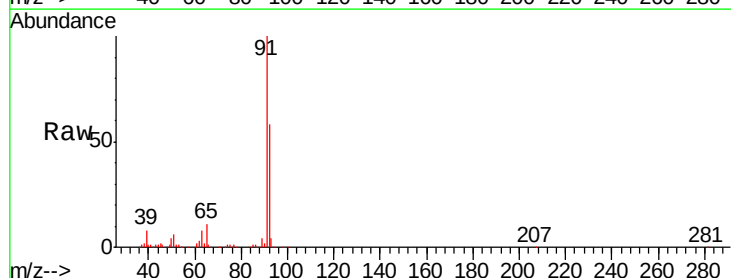
Manual Integrations
 APPROVED

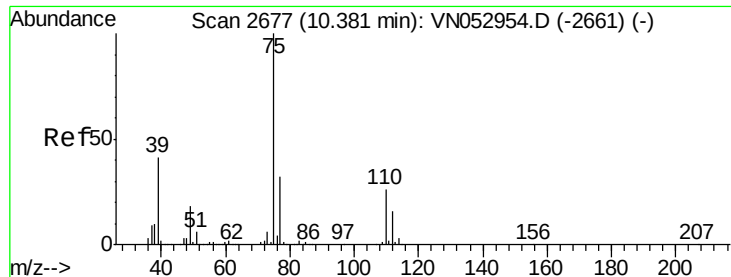
MMDadoda
 12/19/2018 12:08:13 PM



#52
 Toluene
 Concen: 19.519 ug/l
 RT: 10.16 min Scan# 2607
 Delta R.T. -0.00 min
 Lab File: VN052994.D
 Acq: 19 Dec 2018 6:52

Tgt Ion: 92 Resp: 584469
 Ion Ratio Lower Upper
 92 100
 91 172.7 139.8 209.6





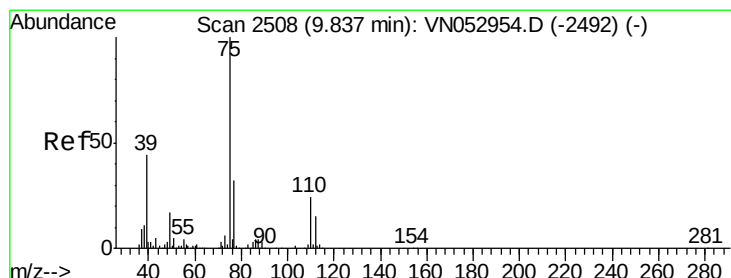
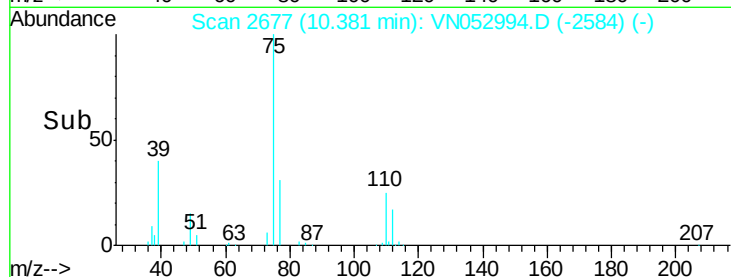
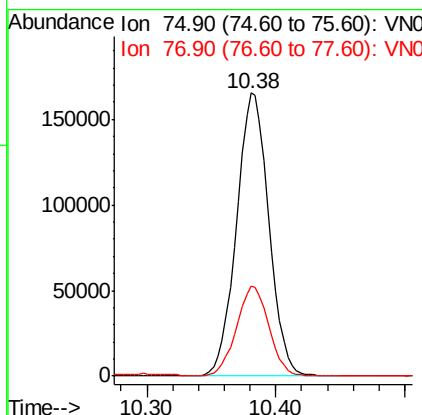
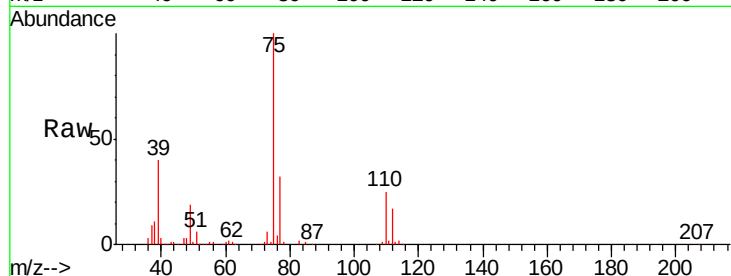
#53
t-1,3-Dichloropropene
Concen: 17.583 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. -0.00 min
Lab File: VN052994.D
Acq: 19 Dec 2018 6:52

Instrument :
MSVOA_N
ClientSampleId :
VN1218MBSD02

Tgt Ion: 75 Resp: 288101
Ion Ratio Lower Upper
75 100
77 31.5 25.6 38.4

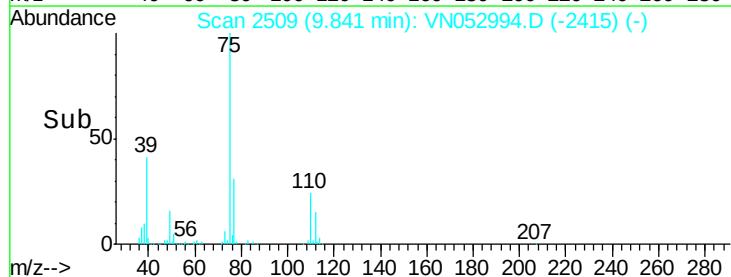
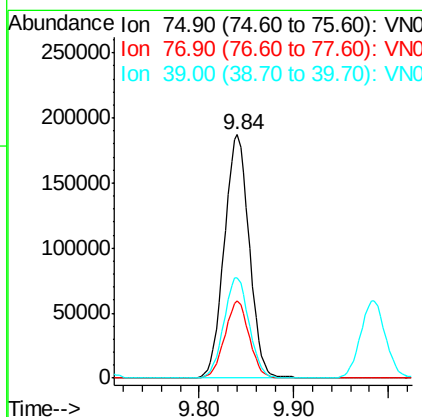
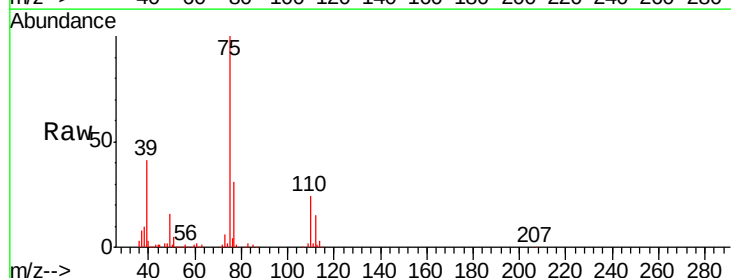
Manual Integrations
APPROVED

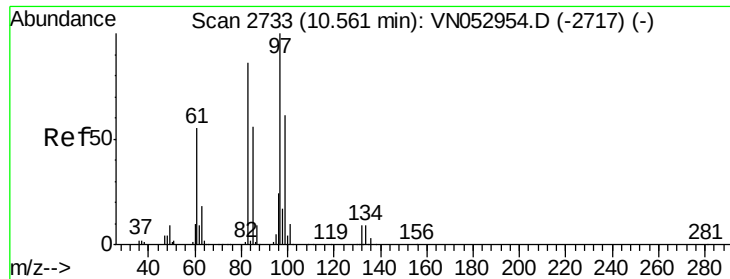
MMDadoda
12/19/2018 12:08:13 PM



#54
cis-1,3-Dichloropropene
Concen: 18.260 ug/l
RT: 9.84 min Scan# 2509
Delta R.T. 0.00 min
Lab File: VN052994.D
Acq: 19 Dec 2018 6:52

Tgt Ion: 75 Resp: 343410
Ion Ratio Lower Upper
75 100
77 31.5 25.8 38.8
39 41.4 34.8 52.2





#55

1,1,2-Trichloroethane

Concen: 19.905 ug/l

RT: 10.56 min Scan# 2733

Delta R.T. -0.00 min

Lab File: VN052994.D

Acq: 19 Dec 2018 6:52

Instrument :

MSVOA_N

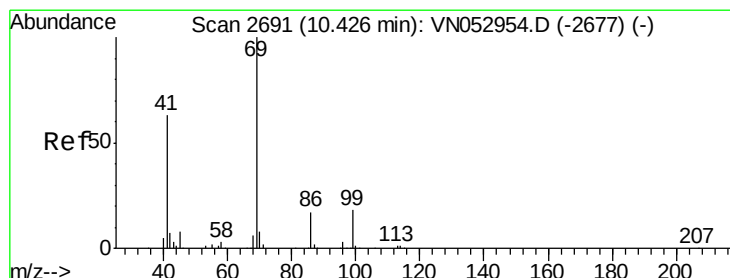
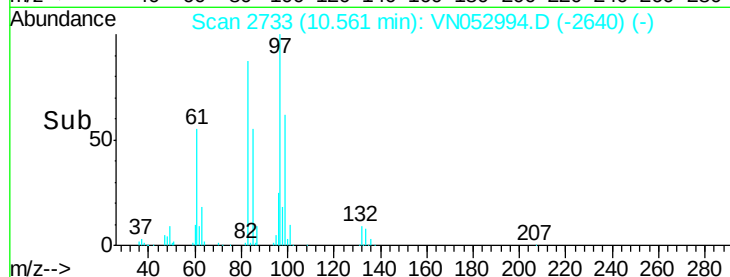
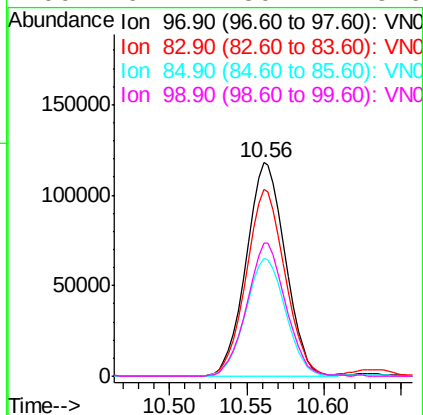
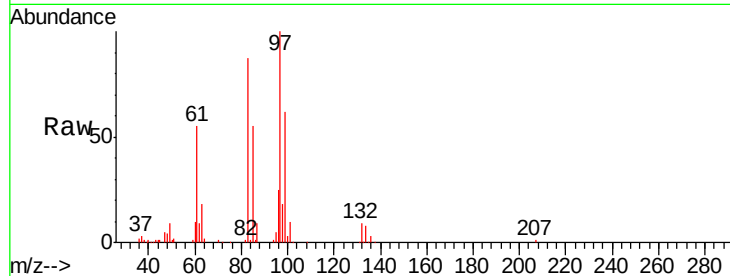
ClientSampleId :

VN1218MBSD02

Tgt Ion:	97	Resp:	207933
Ion	Ratio	Lower	Upper
97	100		
83	87.4	70.9	106.3
85	55.2	45.4	68.2
99	62.1	50.4	75.6

Manual Integrations
APPROVED

MMDadoda
12/19/2018 12:08:13 PM



#56

Ethyl methacrylate

Concen: 20.133 ug/l

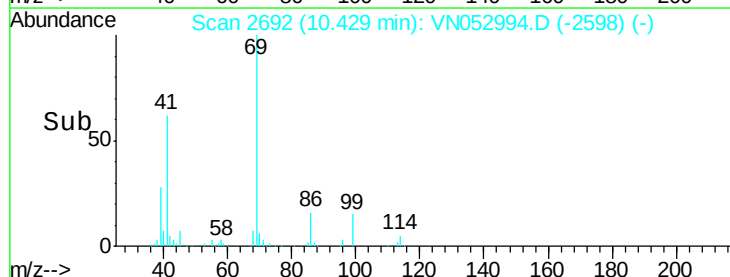
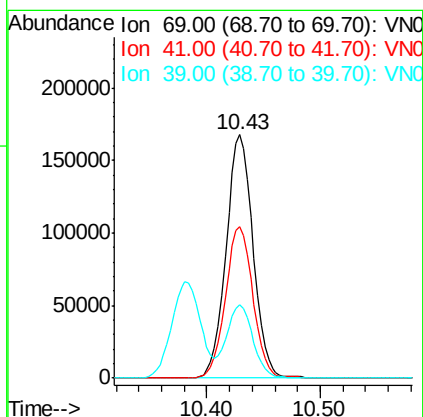
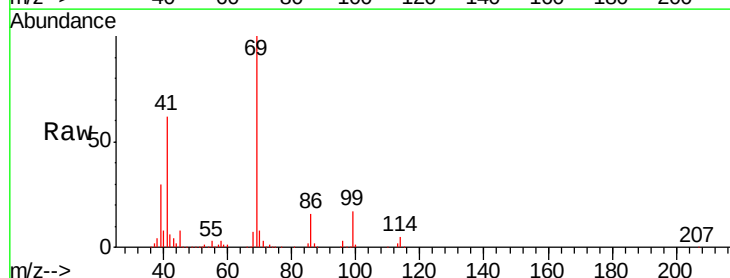
RT: 10.43 min Scan# 2692

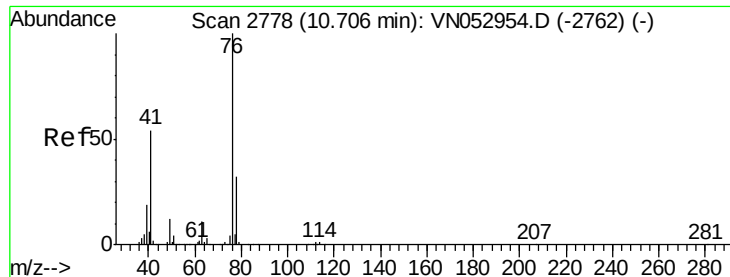
Delta R.T. 0.00 min

Lab File: VN052994.D

Acq: 19 Dec 2018 6:52

Tgt Ion:	69	Resp:	278374
Ion	Ratio	Lower	Upper
69	100		
41	62.7	51.7	77.5
39	29.5	24.6	37.0





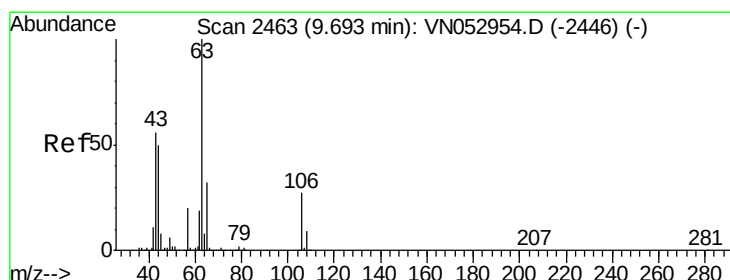
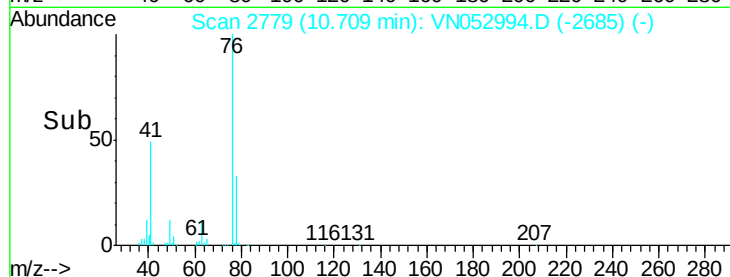
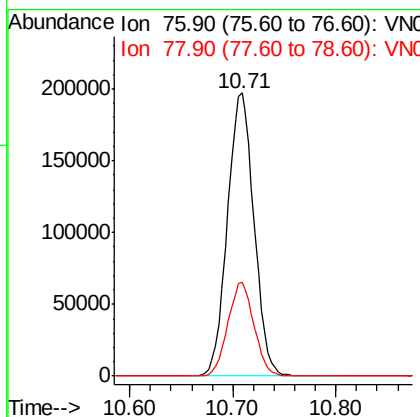
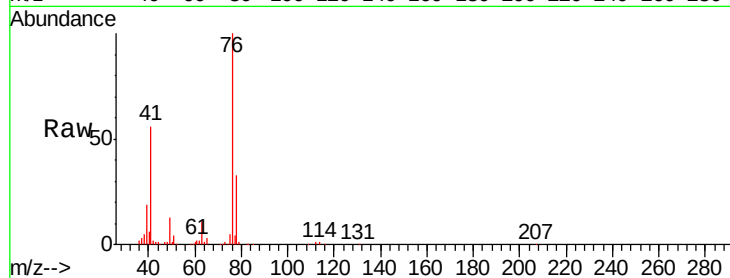
#57
 1,3-Dichloropropane
 Concen: 19.776 ug/l
 RT: 10.71 min Scan# 2779
 Delta R.T. 0.00 min
 Lab File: VN052994.D
 Acq: 19 Dec 2018 6:52

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1218MBSD02

Tgt Ion: 76 Resp: 354263
 Ion Ratio Lower Upper
 76 100
 78 32.6 25.8 38.8

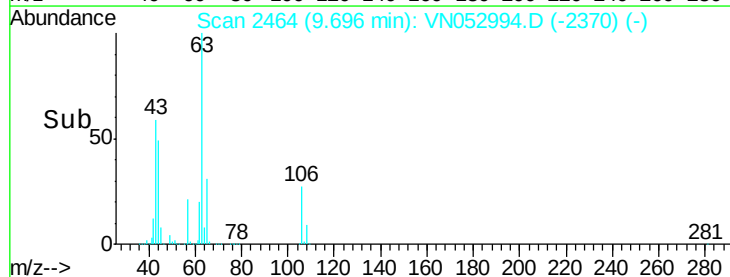
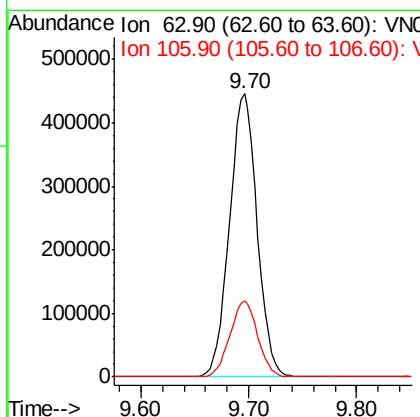
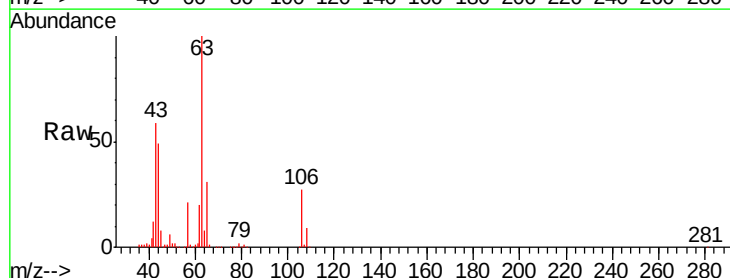
Manual Integrations
 APPROVED

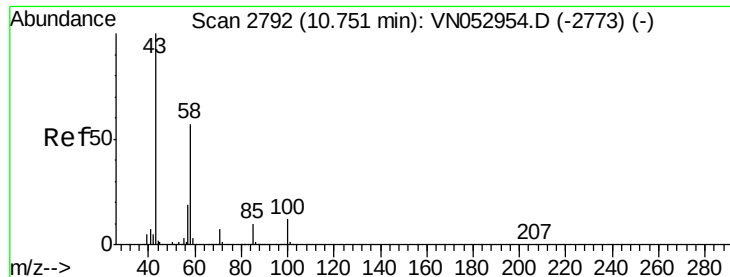
MMDadoda
 12/19/2018 12:08:13 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 104.537 ug/l
 RT: 9.70 min Scan# 2464
 Delta R.T. 0.00 min
 Lab File: VN052994.D
 Acq: 19 Dec 2018 6:52

Tgt Ion: 63 Resp: 793528
 Ion Ratio Lower Upper
 63 100
 106 26.9 21.0 31.6





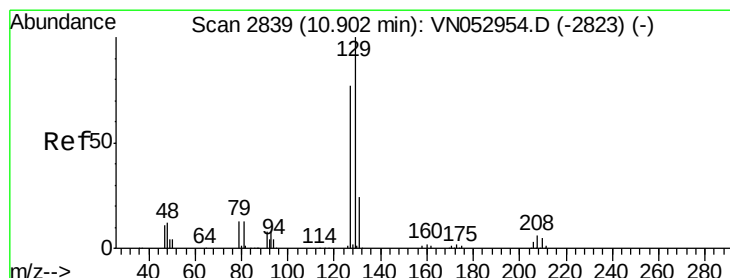
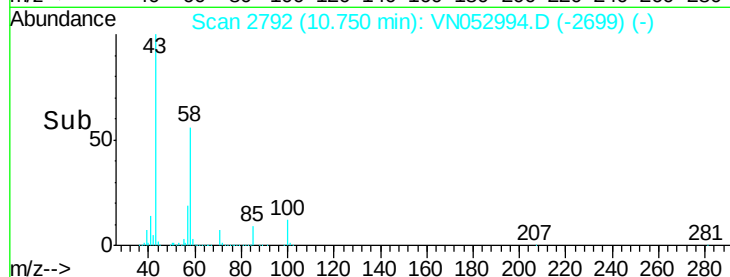
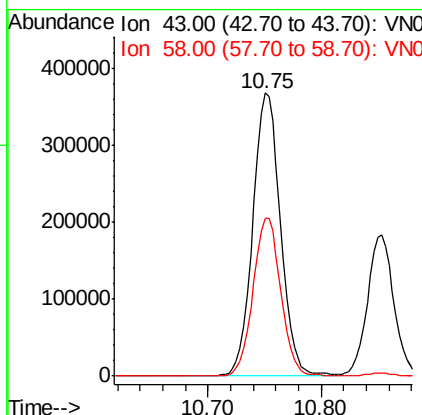
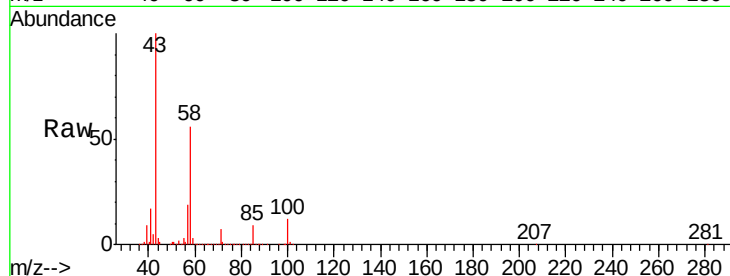
#59
2-Hexanone
Concen: 104.761 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. -0.00 min
Lab File: VN052994.D
Acq: 19 Dec 2018 6:52

Instrument :
MSVOA_N
ClientSampleId :
VN1218MBSD02

Tgt Ion: 43 Resp: 622349
Ion Ratio Lower Upper
43 100
58 56.2 28.1 84.3

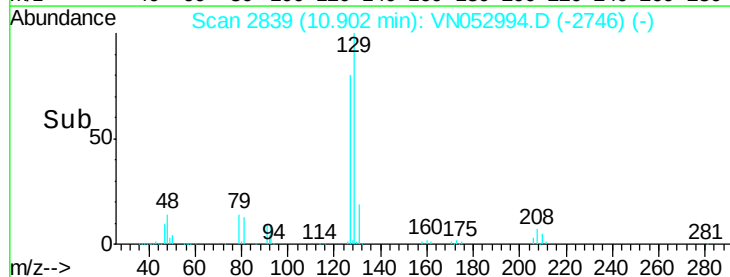
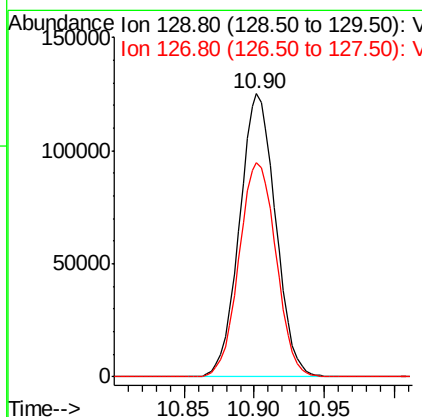
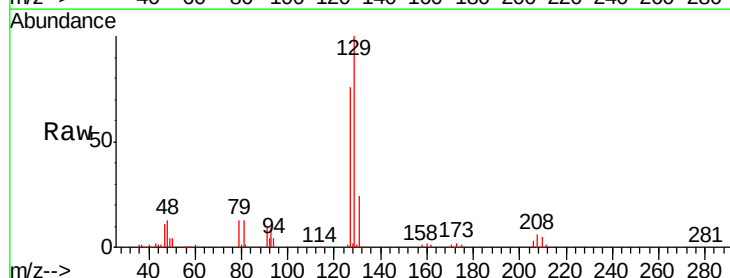
Manual Integrations
APPROVED

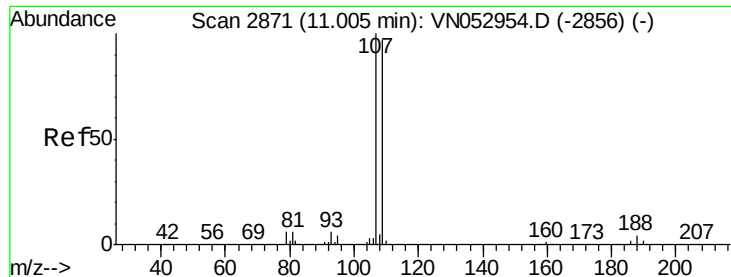
MMDadoda
12/19/2018 12:08:13 PM



#60
Dibromochloromethane
Concen: 18.779 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. -0.00 min
Lab File: VN052994.D
Acq: 19 Dec 2018 6:52

Tgt Ion: 129 Resp: 224557
Ion Ratio Lower Upper
129 100
127 77.7 38.6 116.0





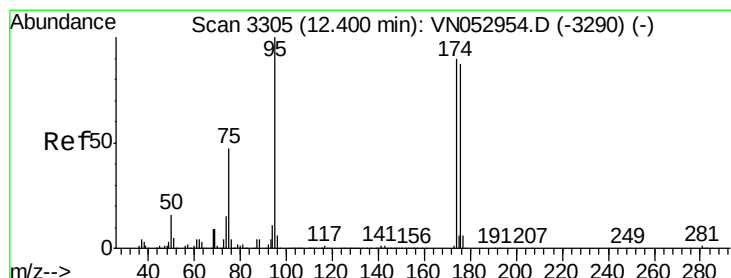
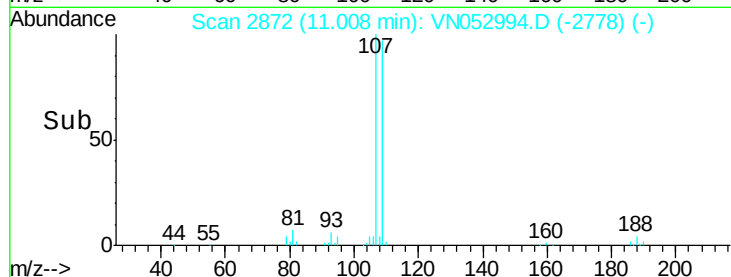
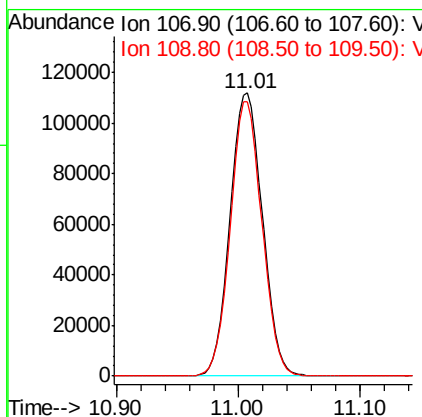
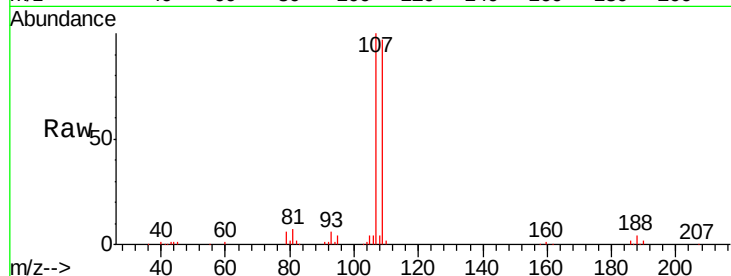
#61
 1,2-Dibromoethane
 Concen: 19.490 ug/l
 RT: 11.01 min Scan# 2872
 Delta R.T. 0.00 min
 Lab File: VN052994.D
 Acq: 19 Dec 2018 6:52

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1218MBSD02

Tgt Ion	Ratio	Lower	Upper
107	100		
109	94.6	75.4	113.0

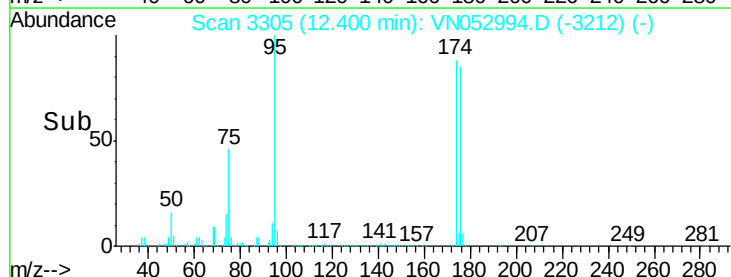
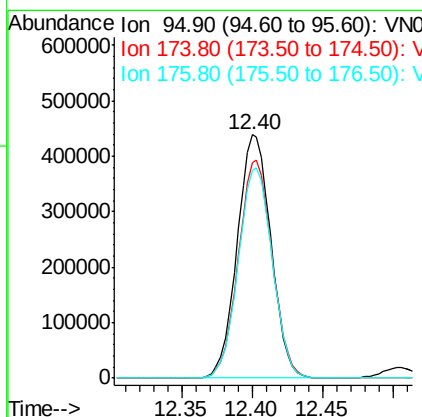
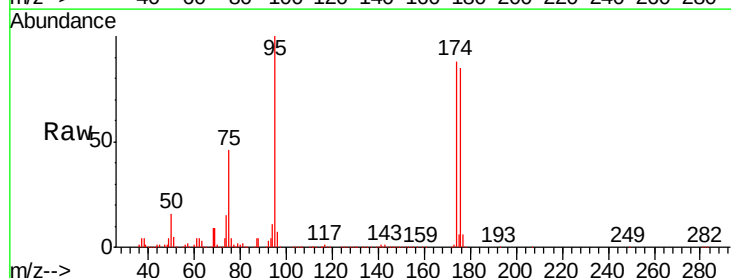
Manual Integrations
 APPROVED

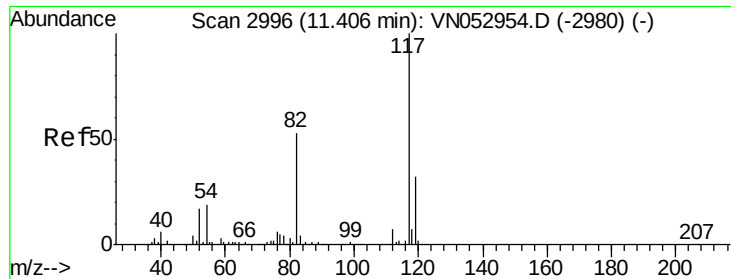
MMDadoda
 12/19/2018 12:08:13 PM



#62
 4-Bromofluorobenzene
 Concen: 19.490 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.00 min
 Lab File: VN052994.D
 Acq: 19 Dec 2018 6:52

Tgt Ion	Ratio	Lower	Upper
95	100		
174	89.5	0.0	178.8
176	87.2	0.0	173.8





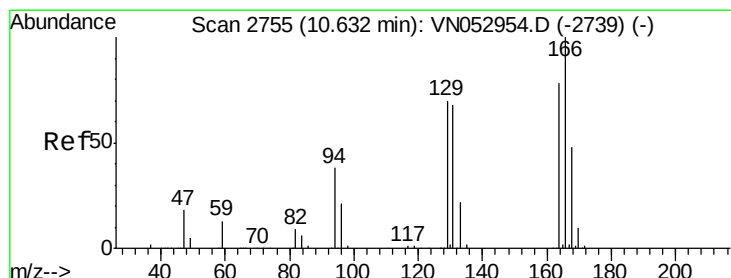
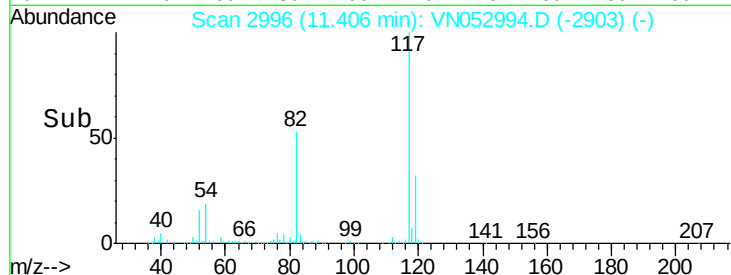
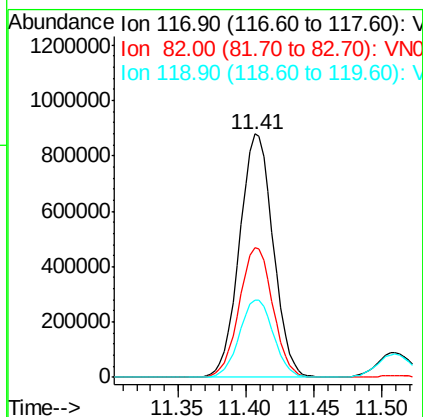
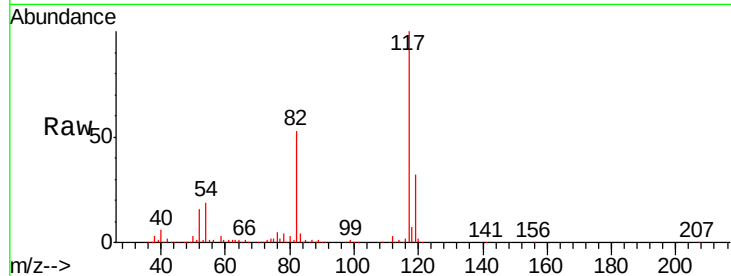
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN052994.D
Acq: 19 Dec 2018 6:52

Instrument :
MSVOA_N
ClientSampleId :
VN1218MBSD02

Tgt Ion:117 Resp: 1505912
Ion Ratio Lower Upper
117 100
82 53.5 42.8 64.2
119 31.9 25.5 38.3

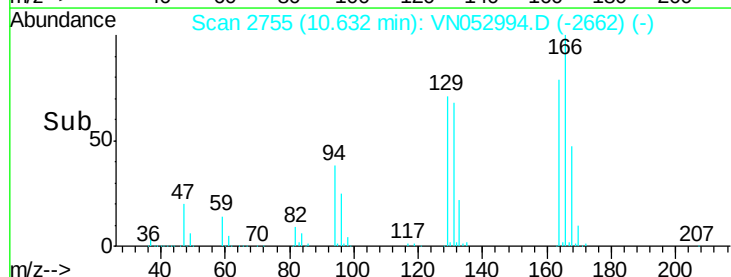
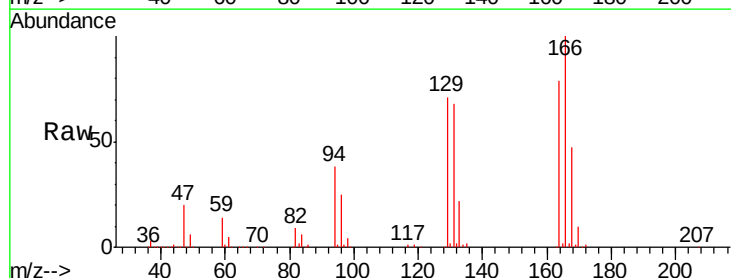
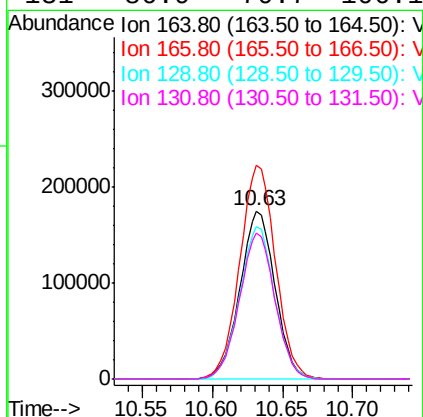
Manual Integrations
APPROVED

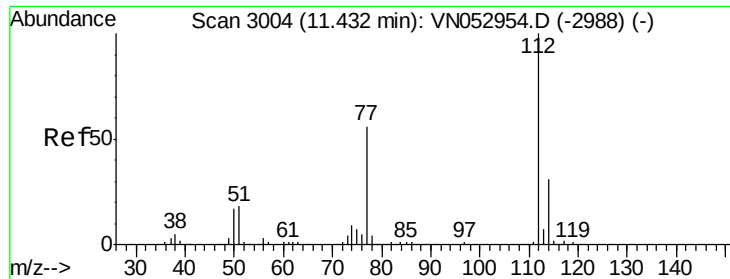
MMDadoda
12/19/2018 12:08:13 PM



#64
Tetrachloroethene
Concen: 18.666 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.00 min
Lab File: VN052994.D
Acq: 19 Dec 2018 6:52

Tgt Ion:164 Resp: 304495
Ion Ratio Lower Upper
164 100
166 127.3 102.9 154.3
129 90.9 73.7 110.5
131 86.9 70.7 106.1





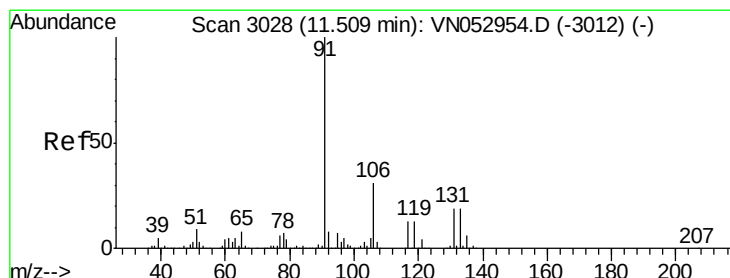
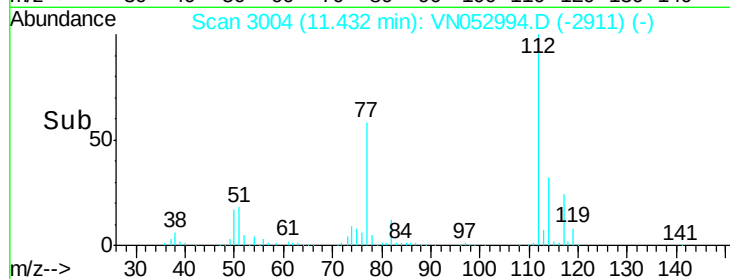
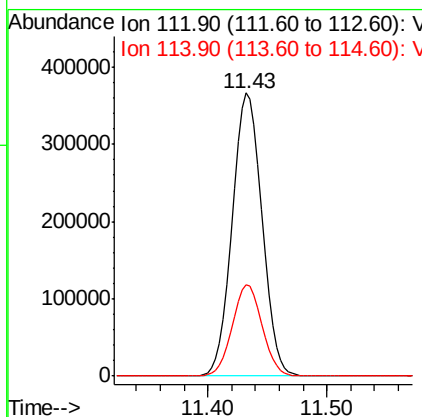
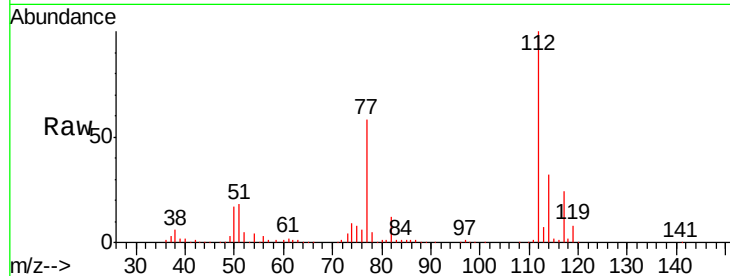
#65
Chlorobenzene
Concen: 19.064 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. -0.00 min
Lab File: VN052994.D
Acq: 19 Dec 2018 6:52

Instrument :
MSVOA_N
ClientSampleId :
VN1218MBSD02

Tgt Ion:112 Resp: 636402
Ion Ratio Lower Upper
112 100
114 32.3 25.5 38.3

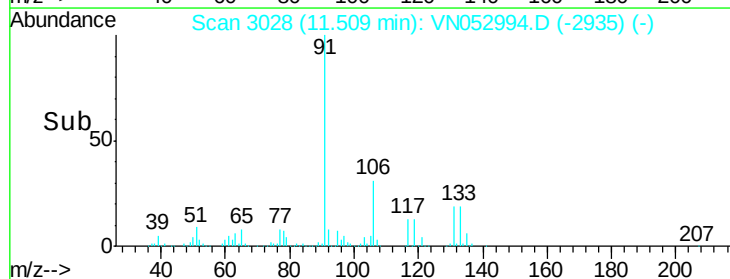
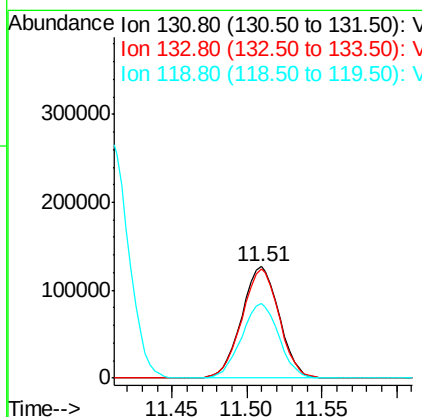
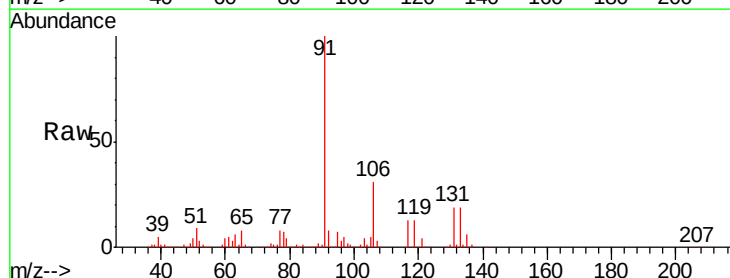
Manual Integrations
APPROVED

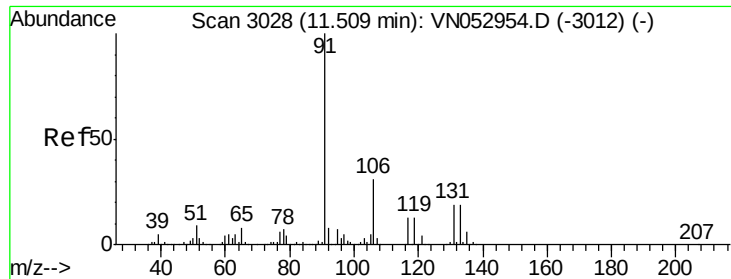
MMDadoda
12/19/2018 12:08:13 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 19.104 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN052994.D
Acq: 19 Dec 2018 6:52

Tgt Ion:131 Resp: 221762
Ion Ratio Lower Upper
131 100
133 97.0 47.6 142.9
119 66.5 33.3 99.8





#67

Ethyl Benzene

Concen: 19.118 ug/l

RT: 11.51 min Scan# 3029

Delta R.T. 0.00 min

Lab File: VN052994.D

Acq: 19 Dec 2018 6:52

Instrument :

MSVOA_N

ClientSampleId :

VN1218MBSD02

Tgt Ion: 91 Resp: 1097517

Ion Ratio Lower Upper

91 100

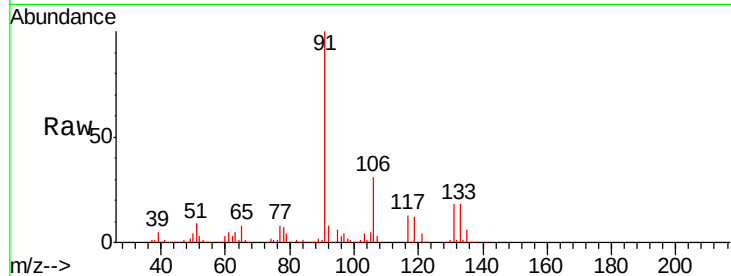
106 31.4 24.9 37.3

Manual Integrations

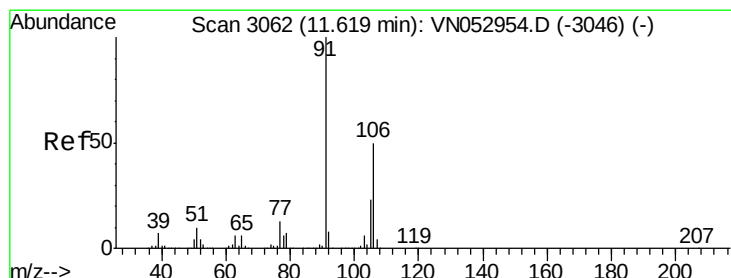
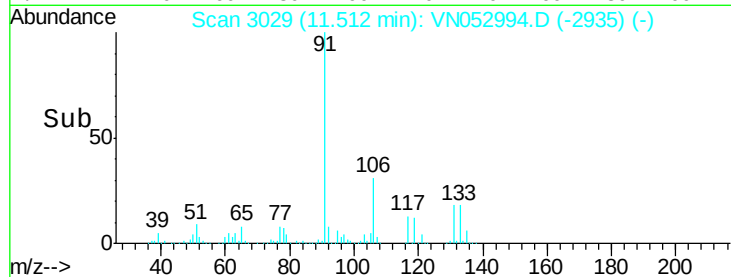
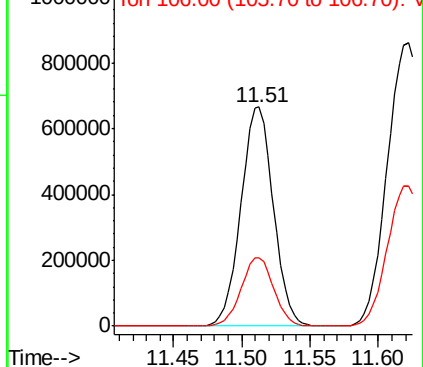
APPROVED

MMDadoda

12/19/2018 12:08:13 PM



Abundance Ion 91.00 (90.70 to 91.70): VN052994.D (-2935) (-)



#68

m/p-Xylenes

Concen: 37.888 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. 0.00 min

Lab File: VN052994.D

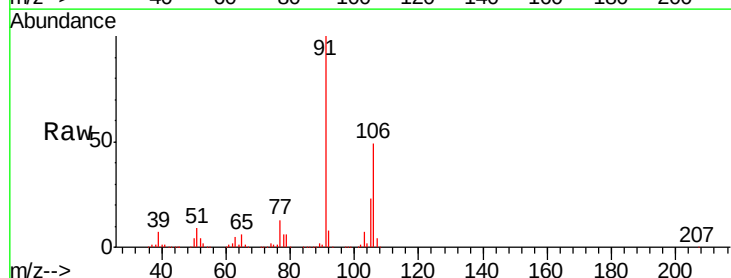
Acq: 19 Dec 2018 6:52

Tgt Ion: 106 Resp: 826860

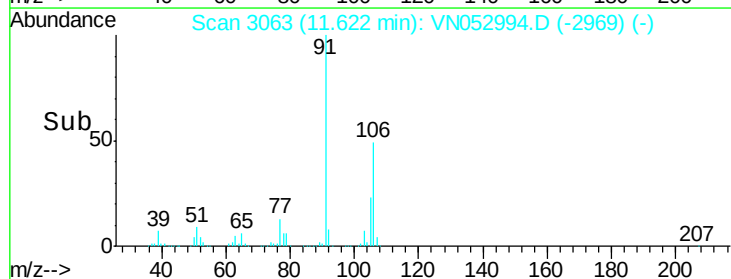
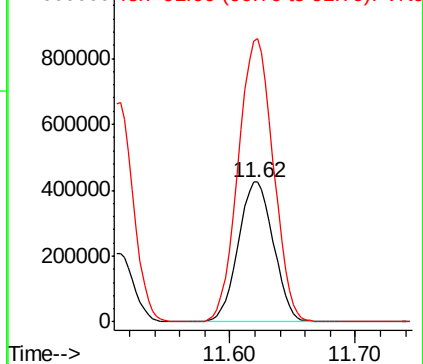
Ion Ratio Lower Upper

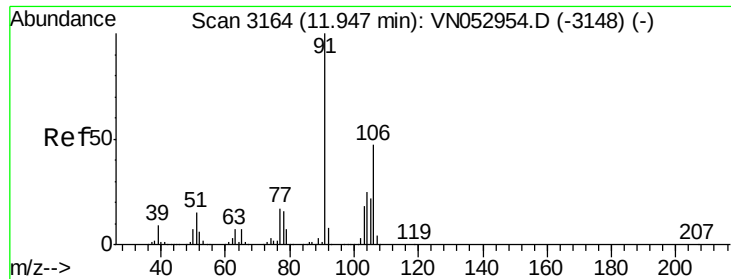
106 100

91 202.2 162.2 243.4



Abundance Ion 106.00 (105.70 to 106.70): VN052994.D (-2969) (-)





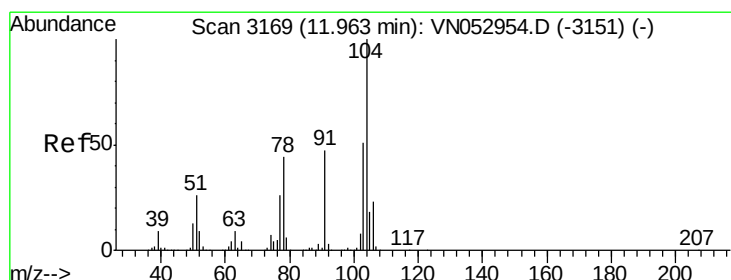
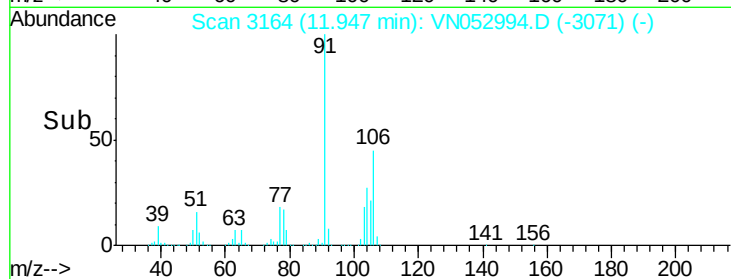
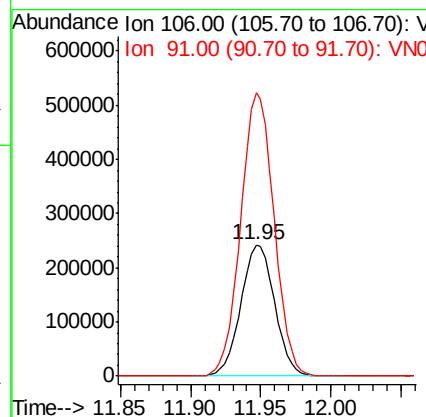
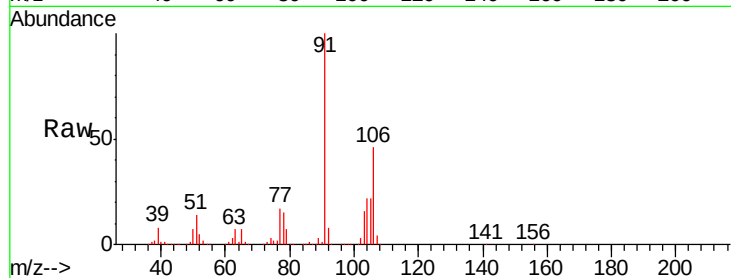
#69
o-Xylene
Concen: 19.407 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN052994.D
Acq: 19 Dec 2018 6:52

Instrument :
MSVOA_N
ClientSampleId :
VN1218MBSD02

Tgt Ion:106 Resp: 406427
Ion Ratio Lower Upper
106 100
91 213.3 106.6 319.8

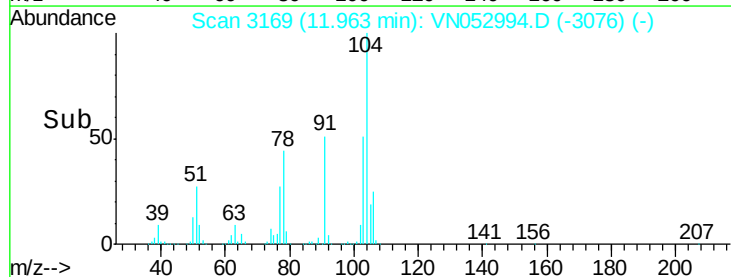
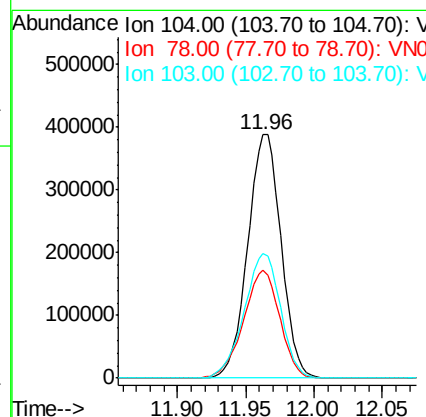
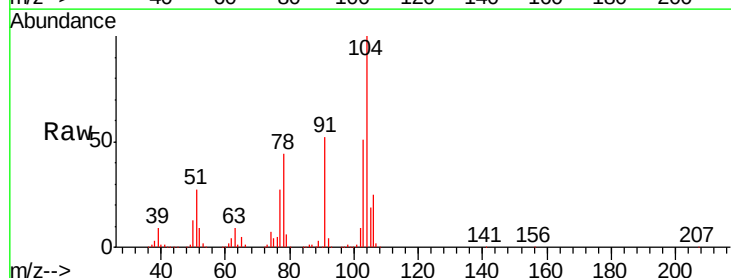
Manual Integrations
APPROVED

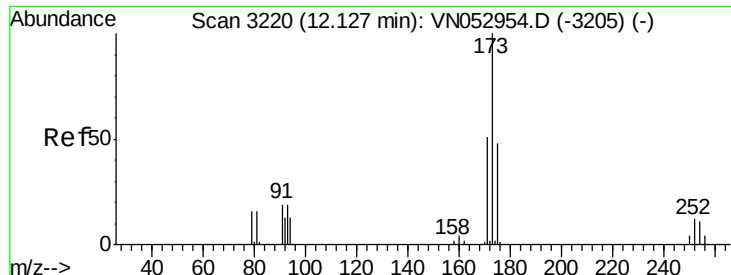
MMDadoda
12/19/2018 12:08:13 PM



#70
Styrene
Concen: 19.330 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN052994.D
Acq: 19 Dec 2018 6:52

Tgt Ion:104 Resp: 660089
Ion Ratio Lower Upper
104 100
78 48.2 38.9 58.3
103 55.8 44.3 66.5





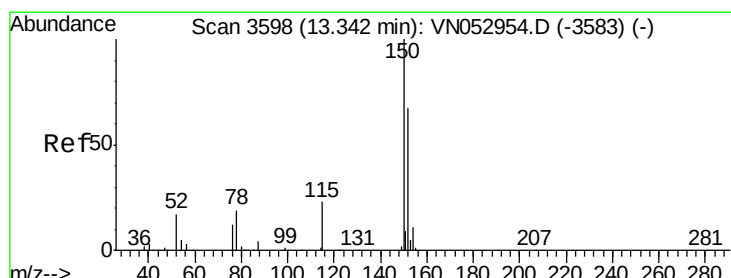
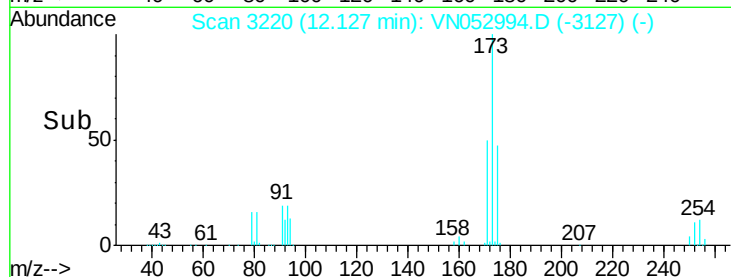
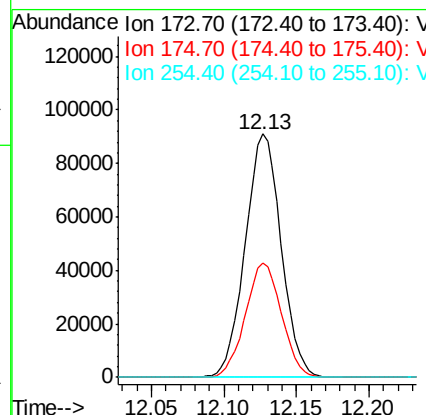
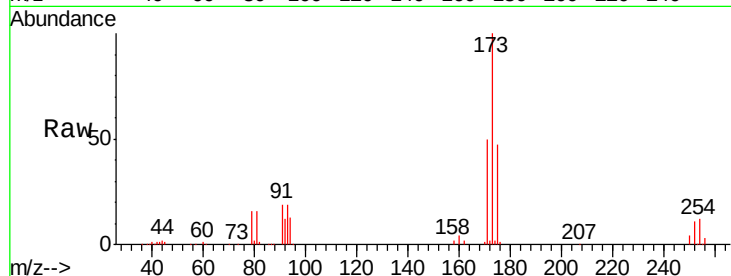
#71
Bromoform
Concen: 18.721 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. -0.00 min
Lab File: VN052994.D
Acq: 19 Dec 2018 6:52

Instrument :
MSVOA_N
ClientSampleId :
VN1218MBSD02

Tgt Ion	Ratio	Resp	Lower	Upper
173	100	156999		
175	47.3	24.3	72.9	
254	0.1	0.1	0.1#	

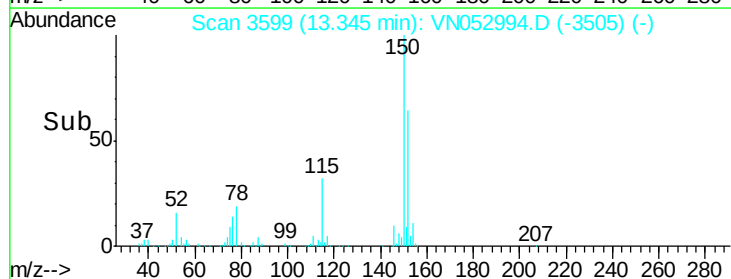
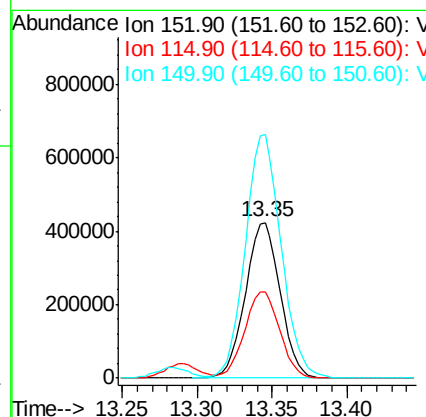
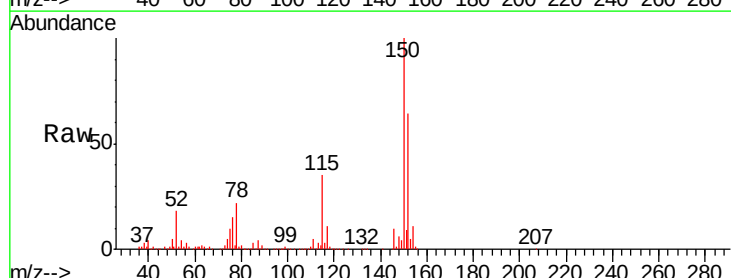
Manual Integrations
APPROVED

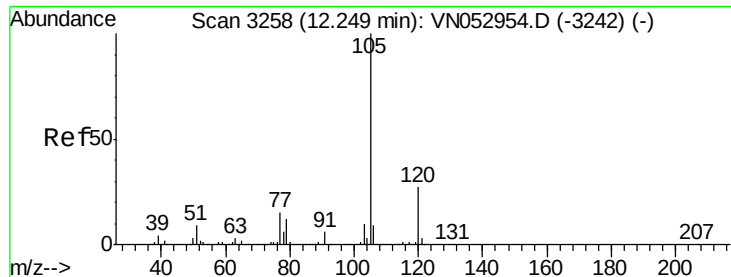
MMDadoda
12/19/2018 12:08:13 PM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN052994.D
Acq: 19 Dec 2018 6:52

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	683265		
115	55.7	28.3	85.0	
150	162.3	0.0	347.8	





#73

Isopropylbenzene

Concen: 20.034 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN052994.D

Acq: 19 Dec 2018 6:52

Instrument :

MSVOA_N

ClientSampleId :

VN1218MBSD02

Tgt Ion: 105 Resp: 1070995

Ion Ratio Lower Upper

105 100

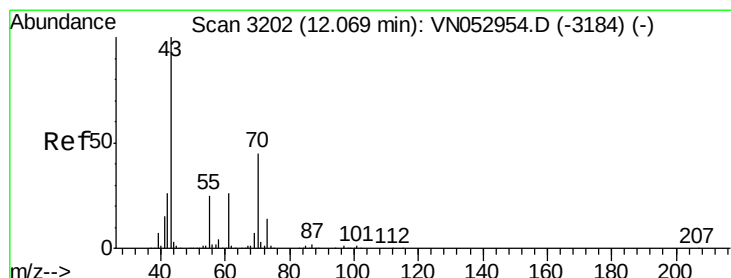
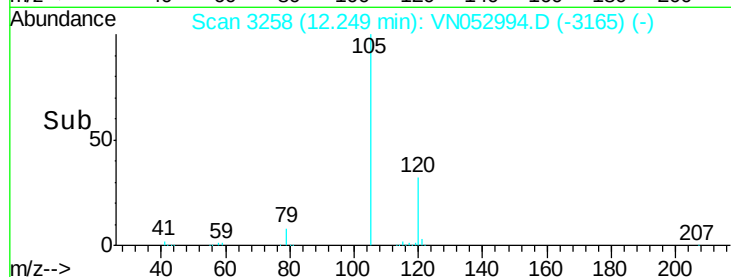
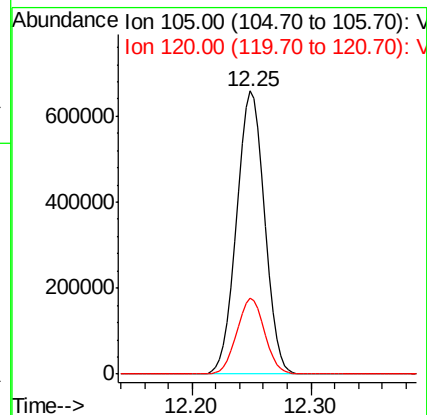
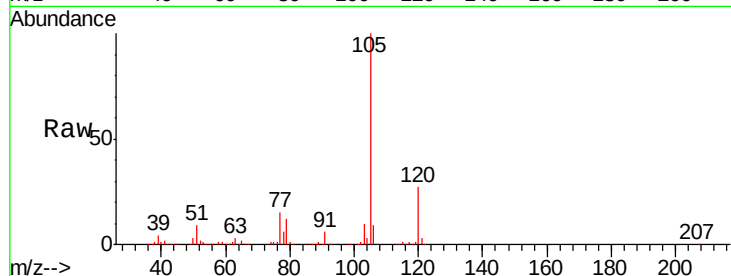
120 26.7 13.3 39.9

Manual Integrations

APPROVED

MMDadoda

12/19/2018 12:08:13 PM



#74

N-ethyl acetate

Concen: 21.022 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN052994.D

Acq: 19 Dec 2018 6:52

Tgt Ion: 43 Resp: 312019

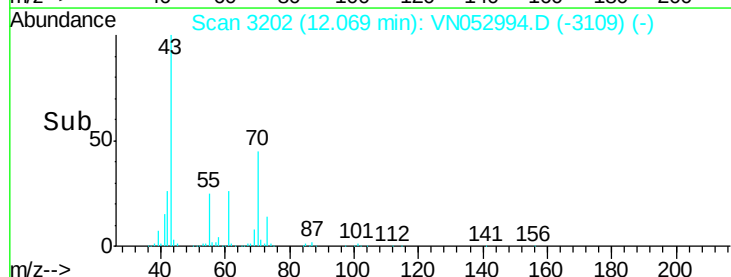
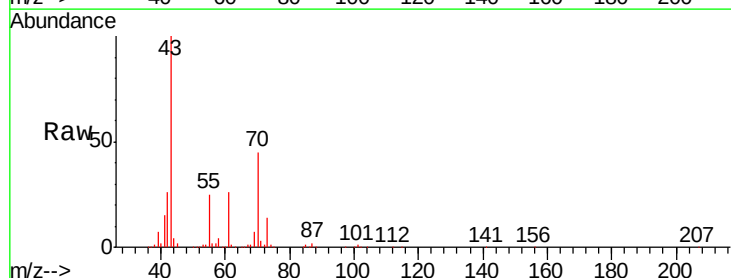
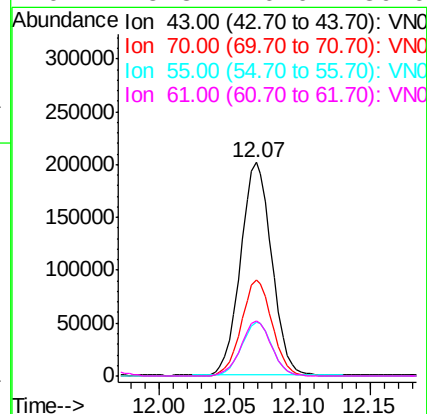
Ion Ratio Lower Upper

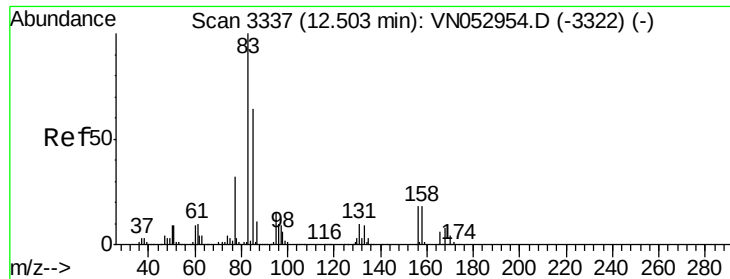
43 100

70 44.7 34.2 51.4

55 25.2 20.3 30.5

61 25.3 20.0 30.0





#75

1,1,2,2-Tetrachloroethane

Concen: 21.614 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. -0.00 min

Lab File: VN052994.D

Acq: 19 Dec 2018 6:52

Instrument :

MSVOA_N

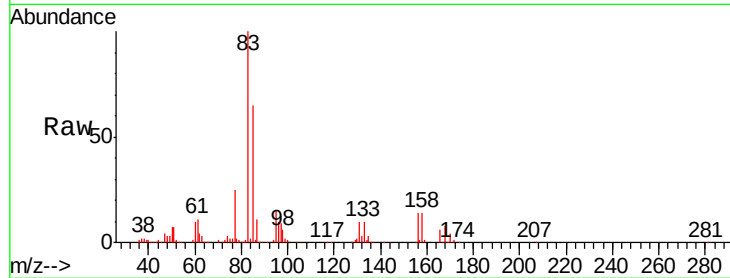
ClientSampleId :

VN1218MBSD02

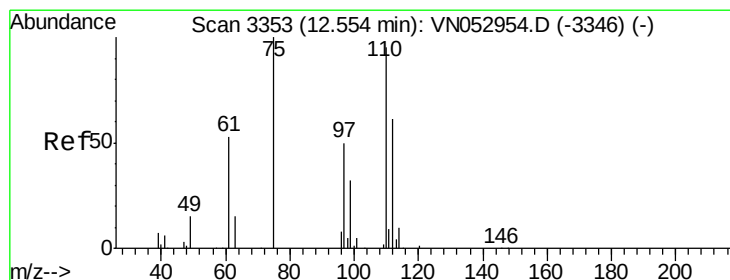
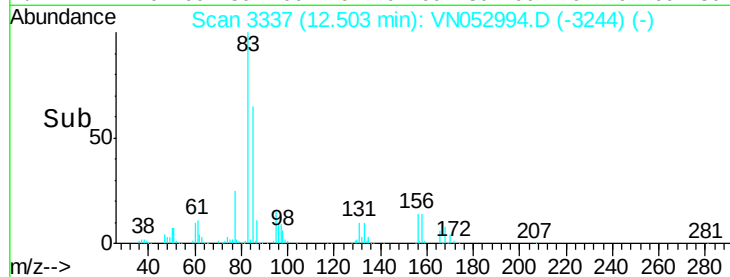
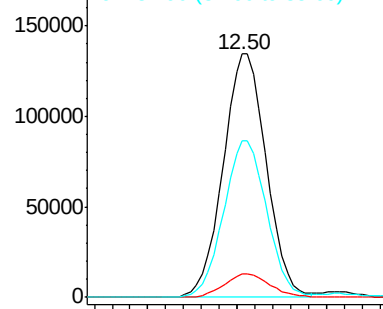
Tgt Ion:	83	Resp:	226691
Ion Ratio	Lower	Upper	
83	100		
131	10.3	5.2	15.6
85	64.7	32.4	97.0

Manual Integrations
APPROVED

MMDadoda
12/19/2018 12:08:13 PM



Abundance Ion 82.90 (82.60 to 83.60): VN052994.D (-3244) (-)



#76

1,2,3-Trichloropropane

Concen: 18.051 ug/l m

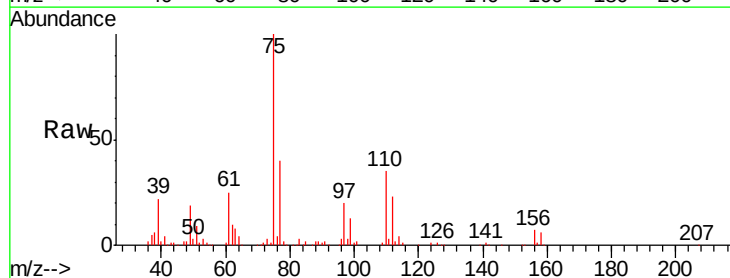
RT: 12.55 min Scan# 3353

Delta R.T. -0.00 min

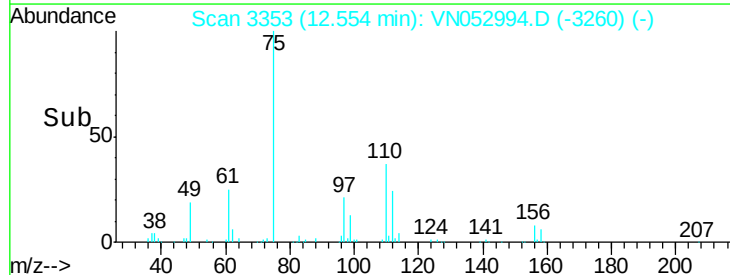
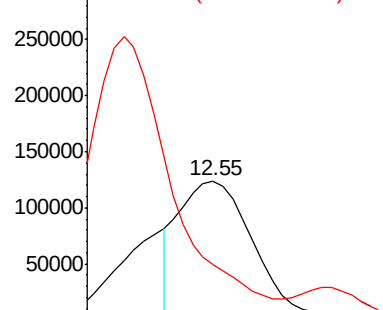
Lab File: VN052994.D

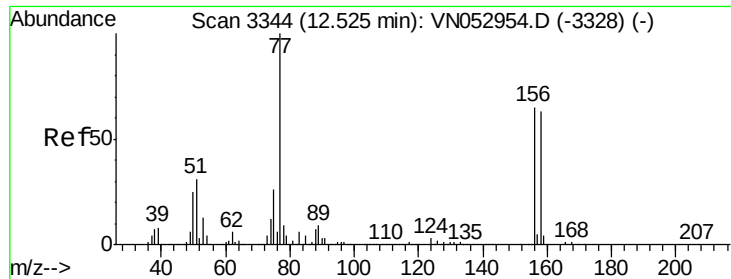
Acq: 19 Dec 2018 6:52

Tgt Ion:	75	Resp:	207627
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0



Abundance Ion 74.90 (74.60 to 75.60): VN052994.D (-3260) (-)





#77

Bromobenzene

Concen: 20.240 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN052994.D

Acq: 19 Dec 2018 6:52

Instrument :

MSVOA_N

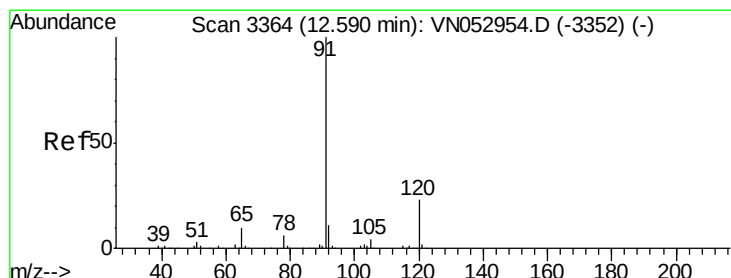
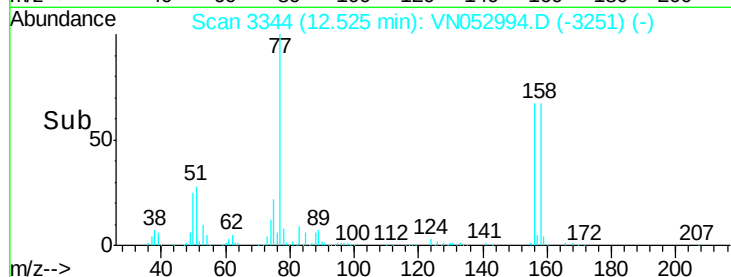
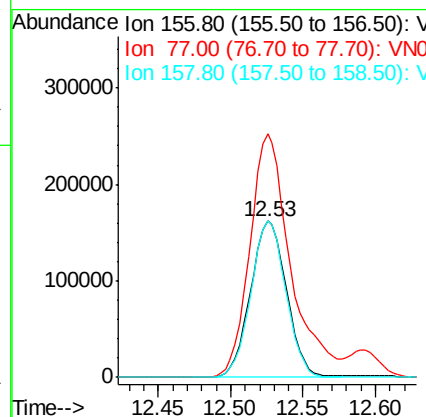
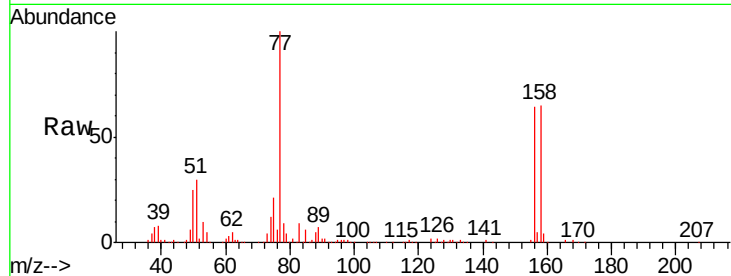
ClientSampleId :

VN1218MBSD02

Tgt Ion	Ratio	Resp	Lower	Upper
156	100	281263		
77	176.4	91.3	273.8	
158	97.0	49.0	147.2	

Manual Integrations
APPROVED

MMDadoda
12/19/2018 12:08:13 PM



#78

n-propylbenzene

Concen: 19.543 ug/l

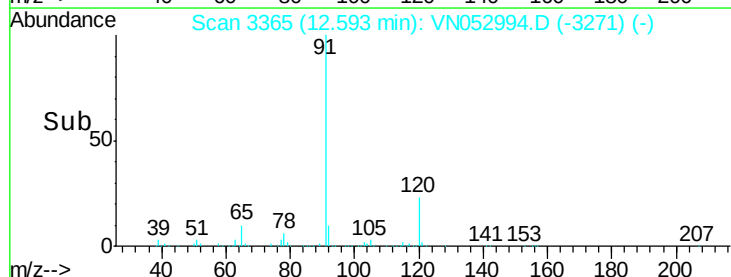
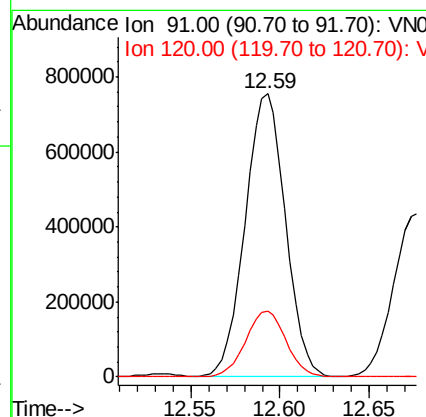
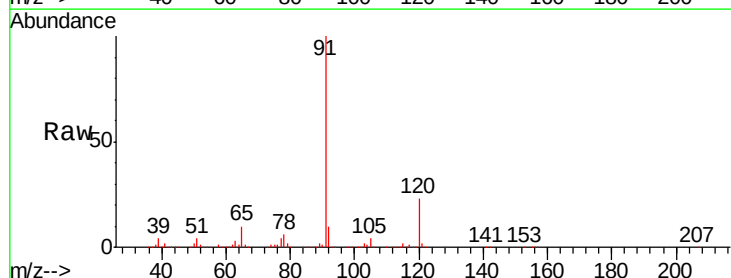
RT: 12.59 min Scan# 3365

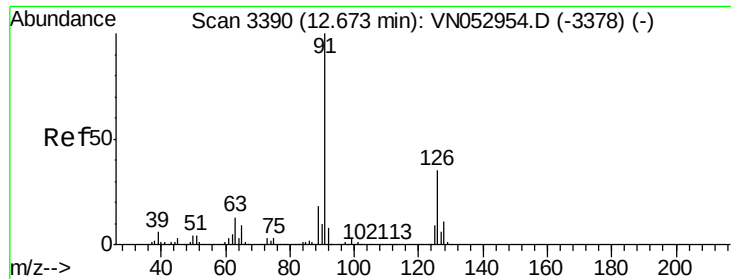
Delta R.T. 0.00 min

Lab File: VN052994.D

Acq: 19 Dec 2018 6:52

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	1189895		
120	23.4	11.5	34.5	





#79

2-Chlorotoluene

Concen: 19.013 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN052994.D

Acq: 19 Dec 2018 6:52

Instrument :

MSVOA_N

ClientSampleId :

VN1218MBSD02

Tgt Ion: 91 Resp: 717531

Ion Ratio Lower Upper

91 100

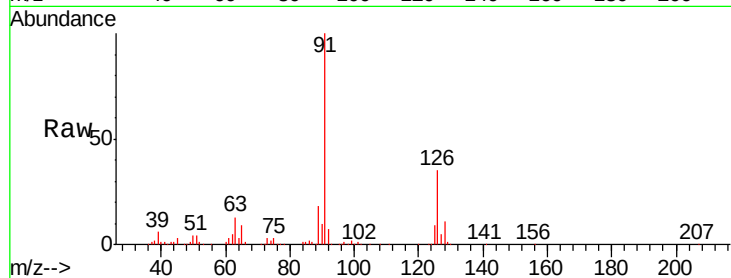
126 35.4 17.4 52.3

Manual Integrations

APPROVED

MMDadoda

12/19/2018 12:08:13 PM



Abundance Ion 91.00 (90.70 to 91.70): VN052994.D (-3391) (-)

Ion 125.90 (125.60 to 126.60): VN052994.D (-3391) (-)

600000

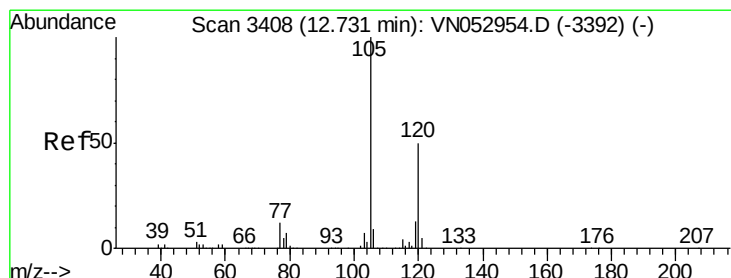
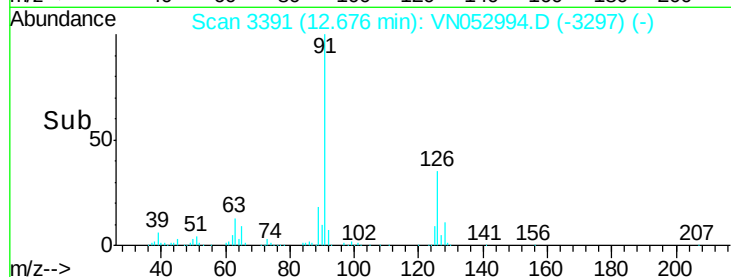
400000

200000

0

12.68

Time--> 12.60 12.65 12.70



#80

1,3,5-Trimethylbenzene

Concen: 19.325 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN052994.D

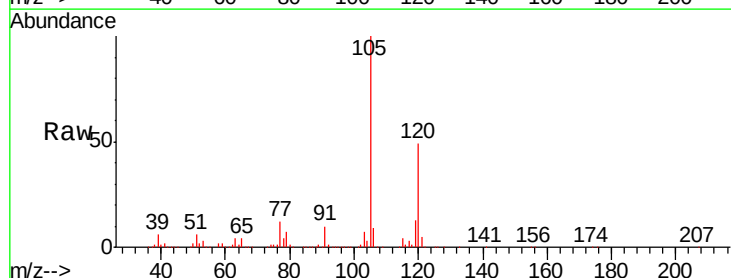
Acq: 19 Dec 2018 6:52

Tgt Ion: 105 Resp: 842059

Ion Ratio Lower Upper

105 100

120 49.2 24.4 73.2



Abundance Ion 105.00 (104.70 to 105.70): VN052994.D (-3409) (-)

Ion 120.00 (119.70 to 120.70): VN052994.D (-3409) (-)

600000

500000

400000

300000

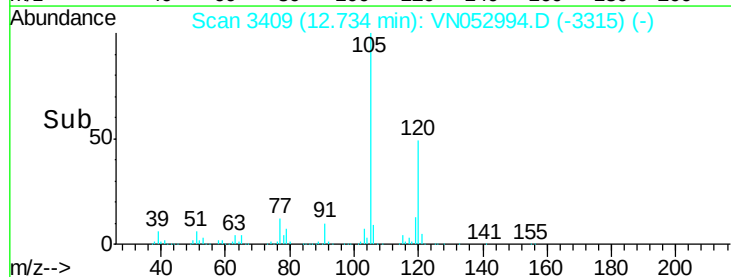
200000

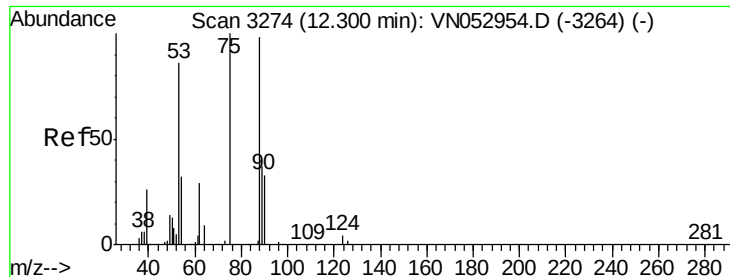
100000

0

12.73

Time--> 12.70 12.80





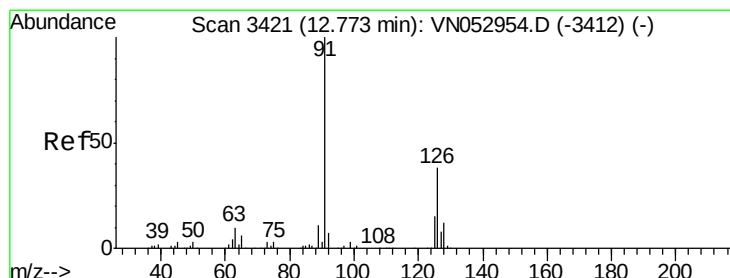
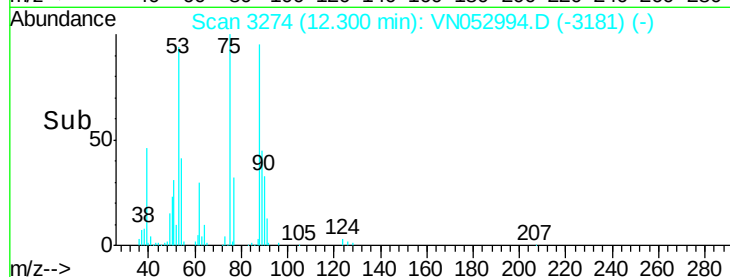
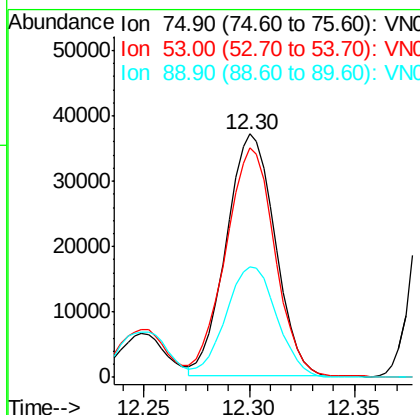
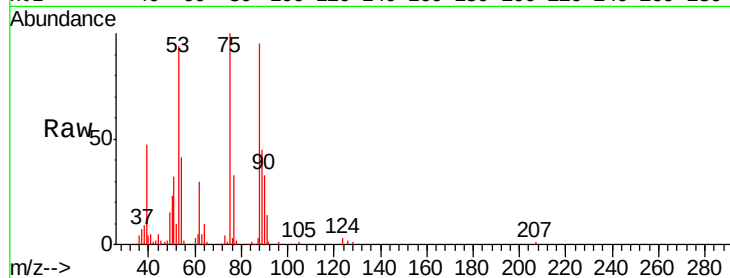
#81
trans-1,4-Dichloro-2-butene
Concen: 16.649 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. -0.00 min
Lab File: VN052994.D
Acq: 19 Dec 2018 6:52

Instrument :
MSVOA_N
ClientSampleId :
VN1218MBS02

Tgt Ion	Ratio	Lower	Upper
75	100		
53	96.0	74.7	112.1
89	47.9	36.1	54.1

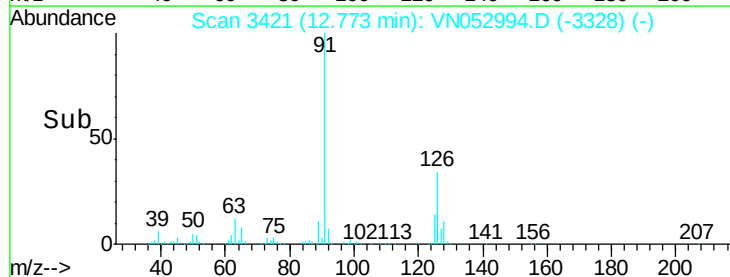
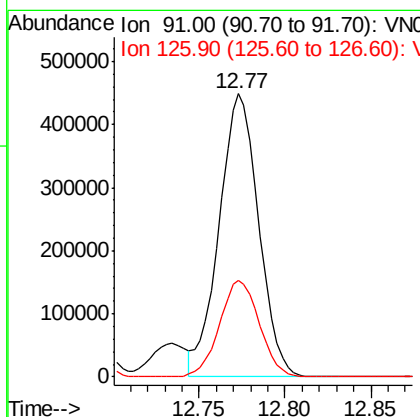
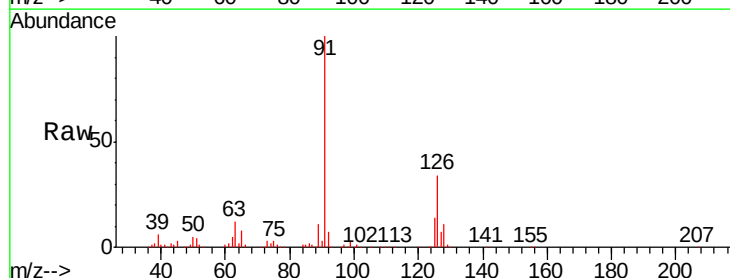
Manual Integrations
APPROVED

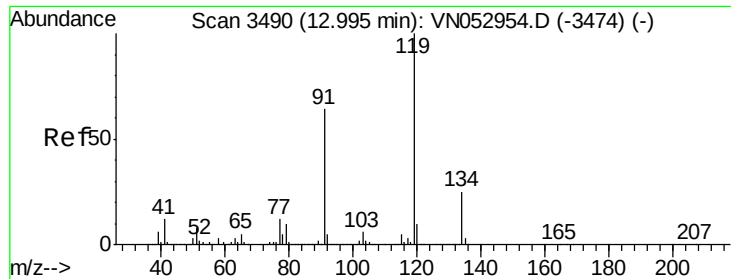
MMDadoda
12/19/2018 12:08:13 PM



#82
4-Chlorotoluene
Concen: 19.446 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. -0.00 min
Lab File: VN052994.D
Acq: 19 Dec 2018 6:52

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.5	17.3	51.7





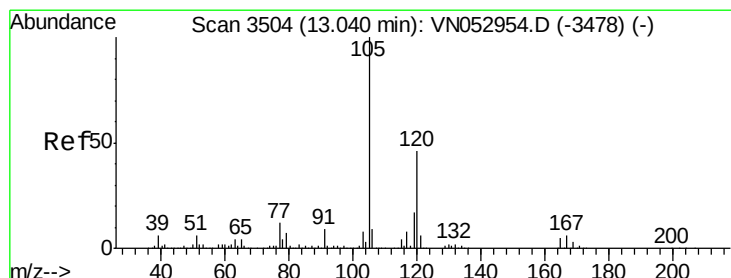
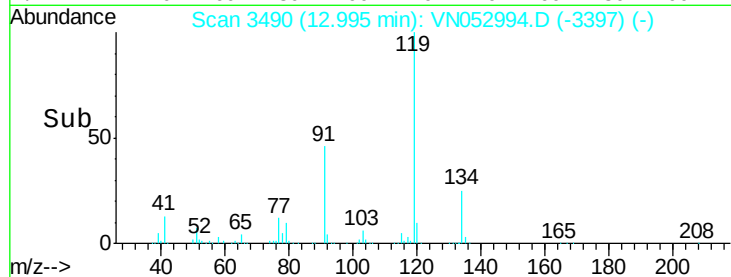
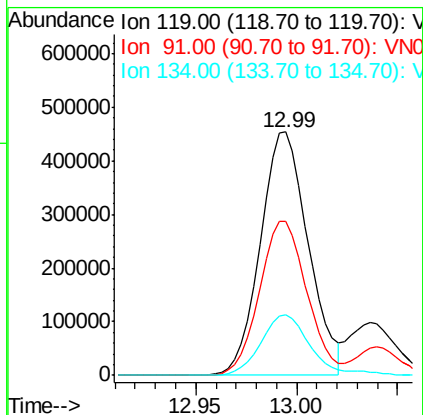
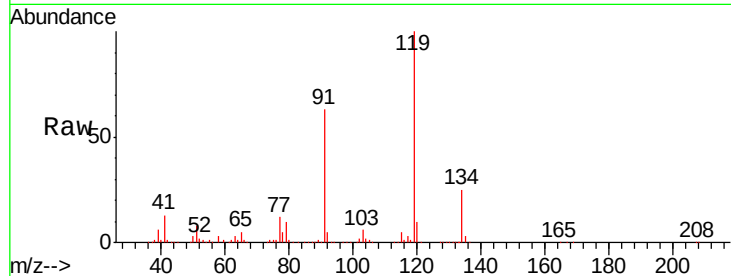
#83
 tert-Butylbenzene
 Concen: 19.459 ug/l
 RT: 12.99 min Scan# 3490
 Delta R.T. -0.00 min
 Lab File: VN052994.D
 Acq: 19 Dec 2018 6:52

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1218MBSD02

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	749910		
91	63.0	31.9	95.5	
134	25.8	12.8	38.4	

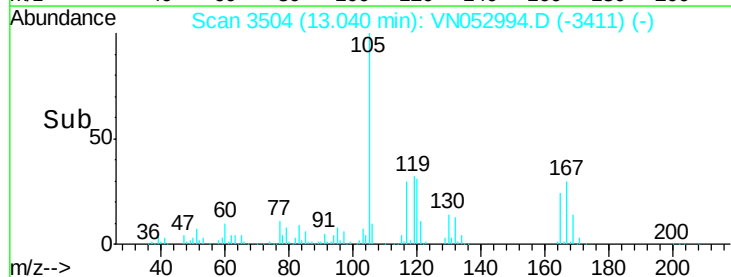
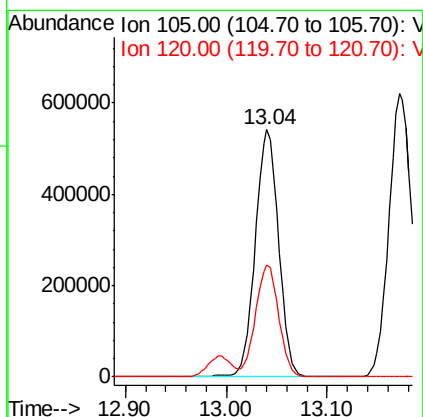
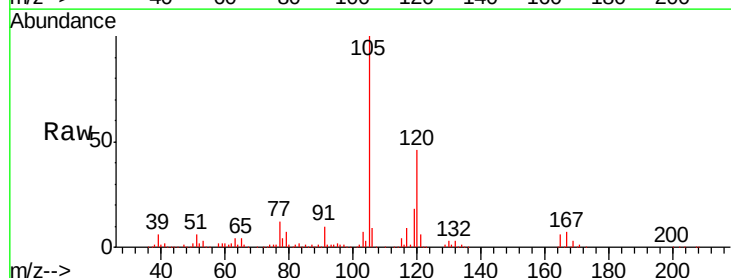
Manual Integrations
 APPROVED

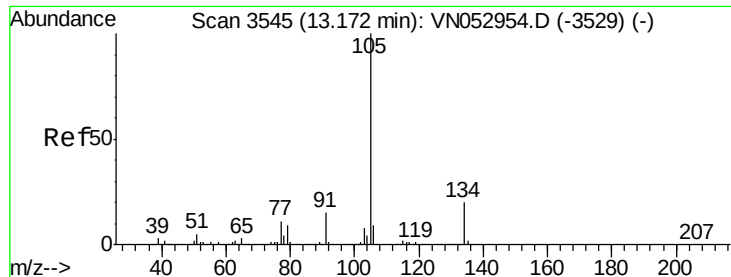
MMDadoda
 12/19/2018 12:08:13 PM



#84
 1,2,4-Trimethylbenzene
 Concen: 19.629 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. -0.00 min
 Lab File: VN052994.D
 Acq: 19 Dec 2018 6:52

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	859824		
120	45.4	22.9	68.8	





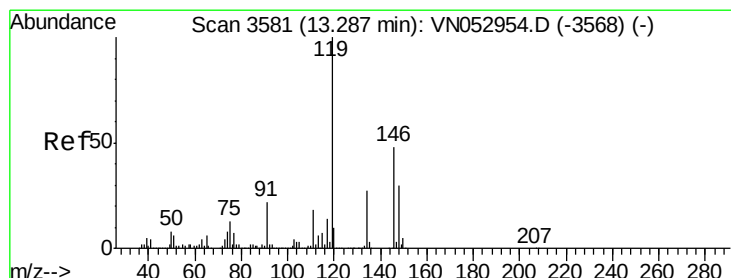
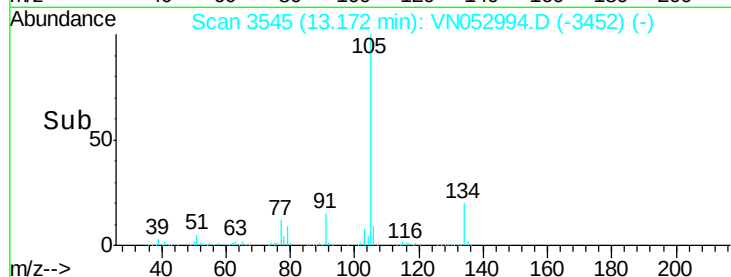
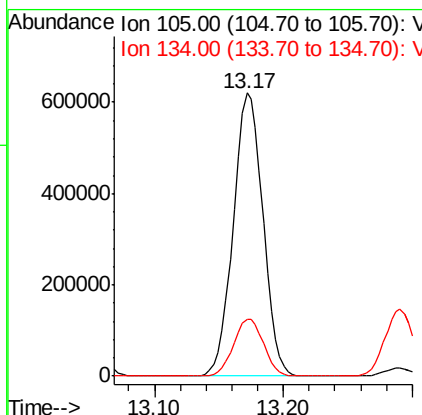
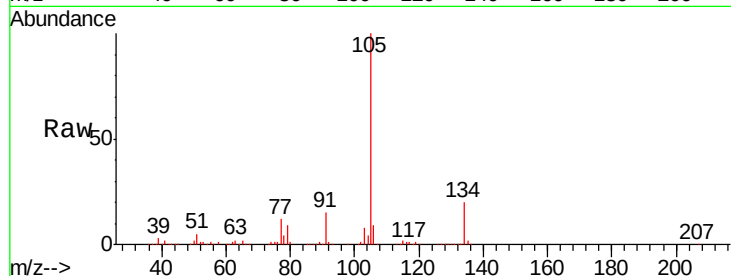
#85
 sec-Butylbenzene
 Concen: 18.954 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. -0.00 min
 Lab File: VN052994.D
 Acq: 19 Dec 2018 6:52

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1218MBSD02

Tgt Ion	Ratio	Lower	Upper
105	100		
134	20.4	10.1	30.3

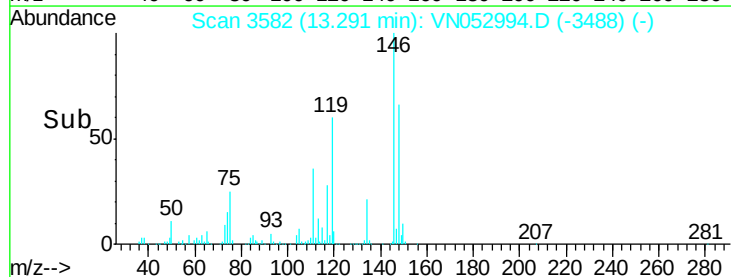
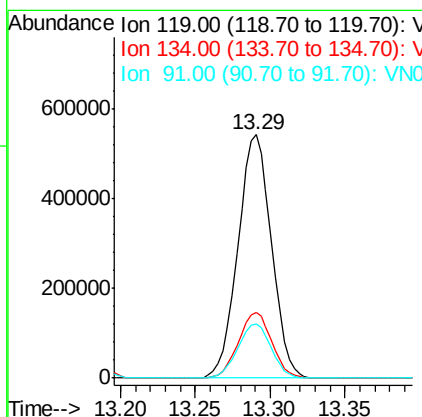
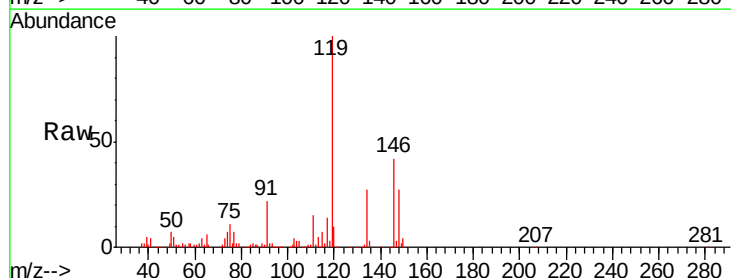
Manual Integrations
 APPROVED

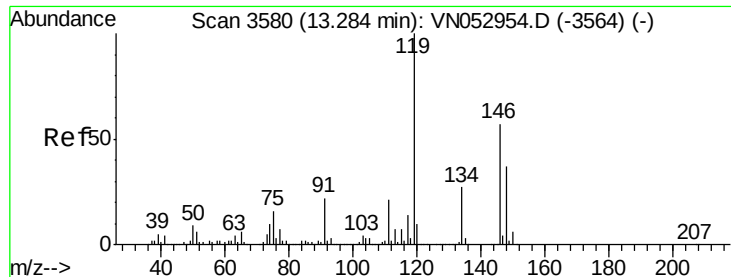
MMDadoda
 12/19/2018 12:08:13 PM



#86
 p-Isopropyltoluene
 Concen: 18.676 ug/l
 RT: 13.29 min Scan# 3582
 Delta R.T. 0.00 min
 Lab File: VN052994.D
 Acq: 19 Dec 2018 6:52

Tgt Ion	Ratio	Lower	Upper
119	100		
134	27.1	13.4	40.2
91	22.4	11.1	33.3





#87

1,3-Dichlorobenzene

Concen: 18.889 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. -0.00 min

Lab File: VN052994.D

Acq: 19 Dec 2018 6:52

Instrument :

MSVOA_N

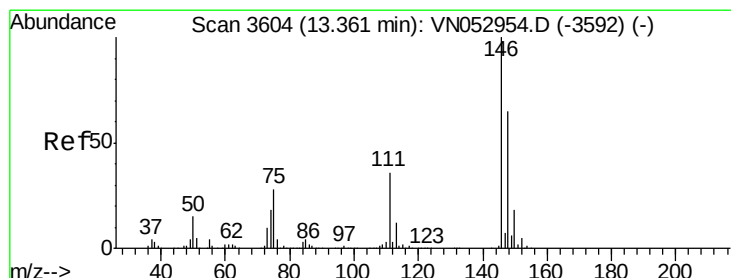
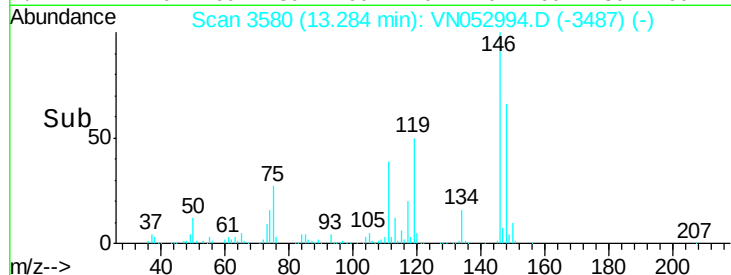
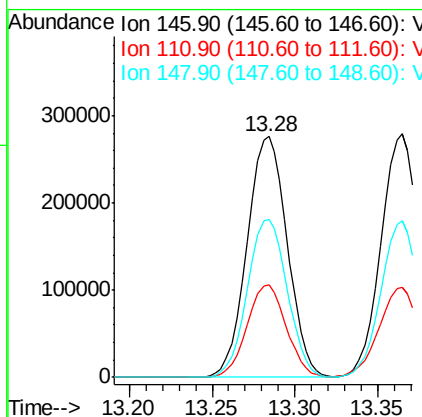
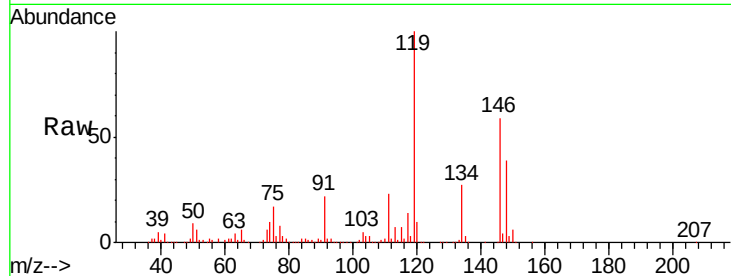
ClientSampleId :

VN1218MBSD02

Tgt Ion:	146	Resp:	464588
Ion Ratio	Lower	Upper	
146	100		
111	37.6	19.1	57.1
148	64.9	32.0	96.0

Manual Integrations
APPROVED

MMDadoda
12/19/2018 12:08:13 PM



#88

1,4-Dichlorobenzene

Concen: 18.287 ug/l

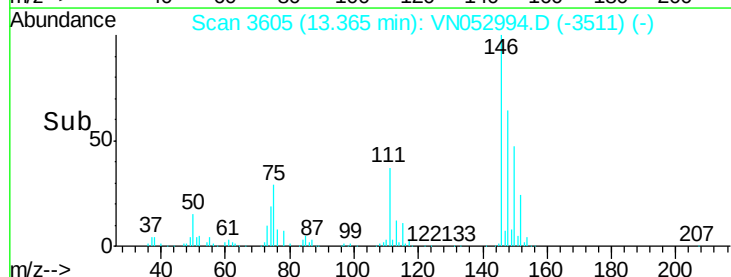
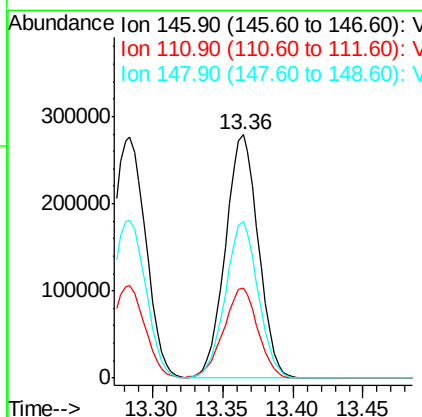
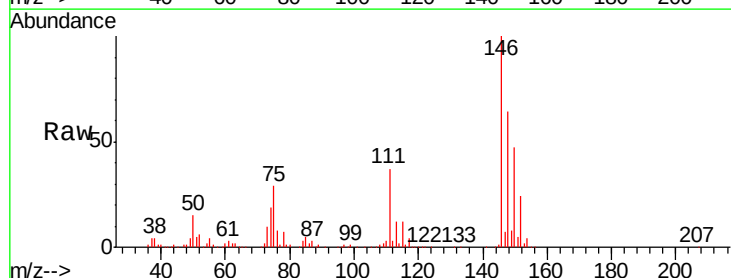
RT: 13.36 min Scan# 3605

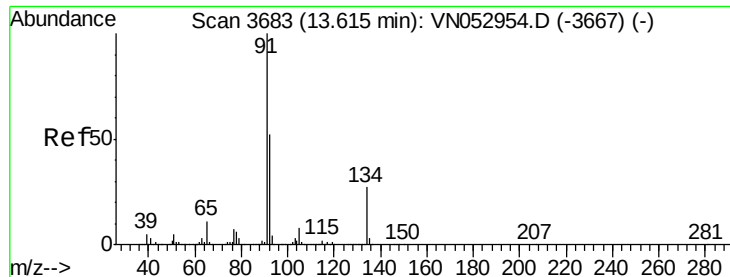
Delta R.T. 0.00 min

Lab File: VN052994.D

Acq: 19 Dec 2018 6:52

Tgt Ion:	146	Resp:	455480
Ion Ratio	Lower	Upper	
146	100		
111	38.2	18.6	55.8
148	64.1	32.1	96.5





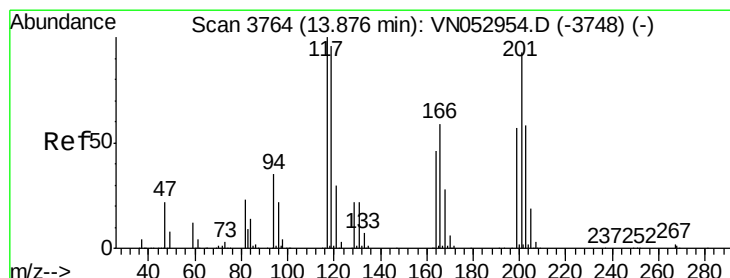
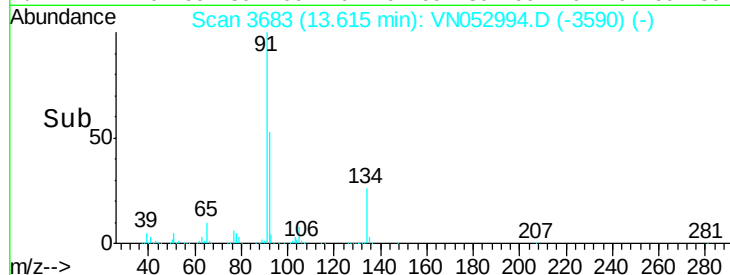
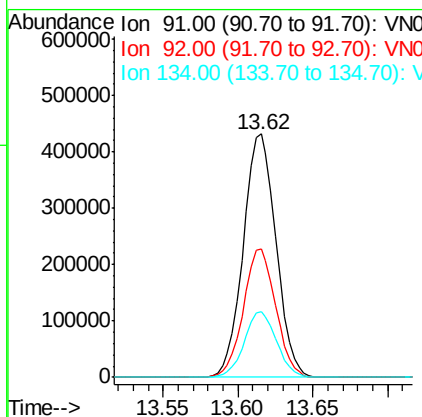
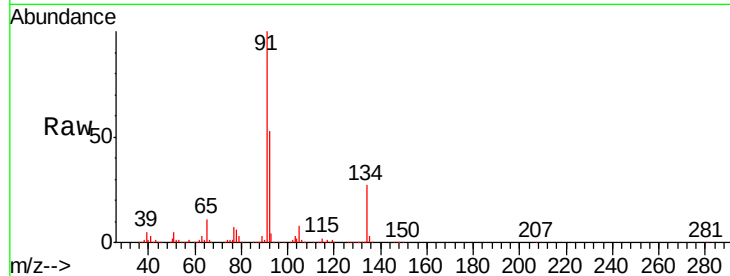
#89
n-Butylbenzene
Concen: 16.982 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. -0.00 min
Lab File: VN052994.D
Acq: 19 Dec 2018 6:52

Instrument :
MSVOA_N
ClientSampleId :
VN1218MBSD02

Tgt Ion	Ratio	Lower	Upper
91	100		
92	52.1	26.3	78.9
134	26.6	13.3	39.8

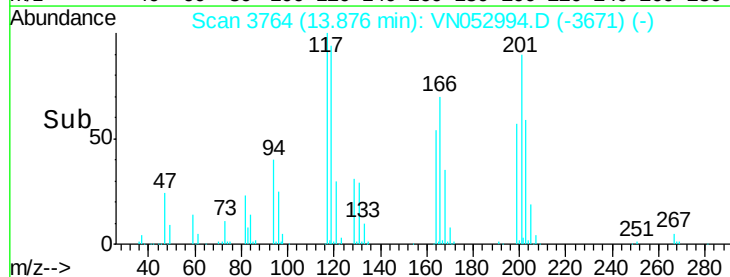
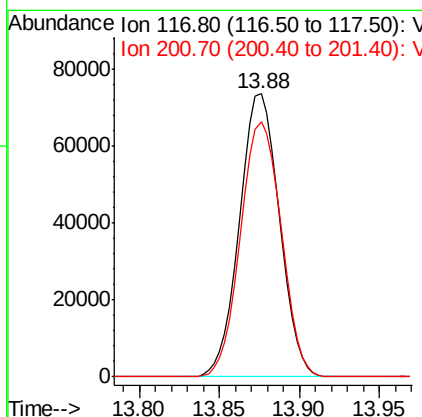
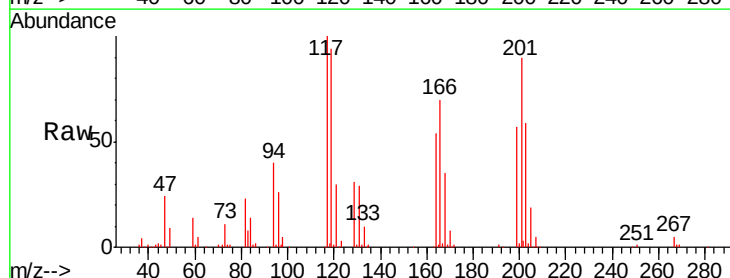
Manual Integrations
APPROVED

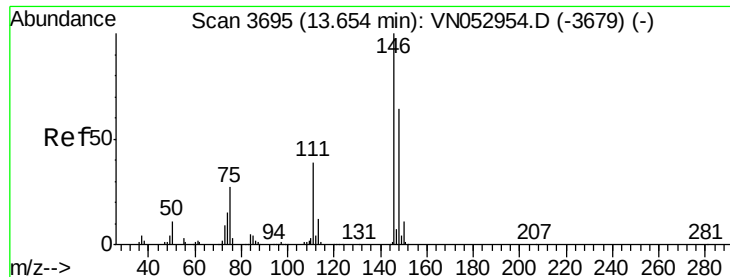
MMDadoda
12/19/2018 12:08:13 PM



#90
Hexachloroethane
Concen: 18.074 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. -0.00 min
Lab File: VN052994.D
Acq: 19 Dec 2018 6:52

Tgt Ion	Ratio	Lower	Upper
117	100		
201	91.9	45.7	137.1





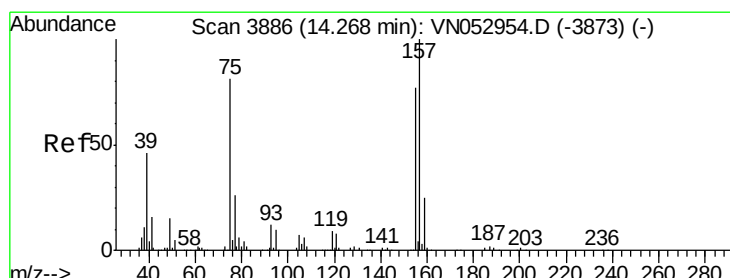
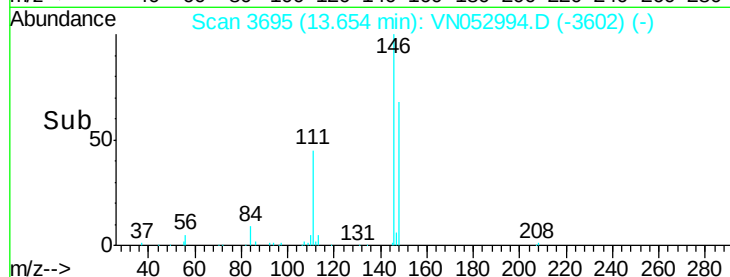
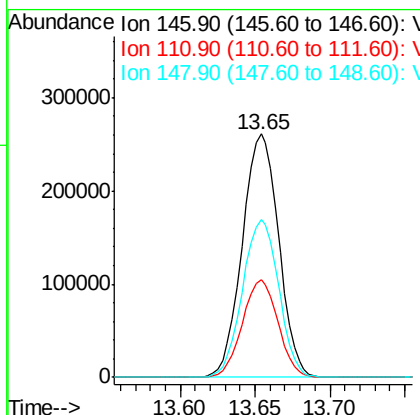
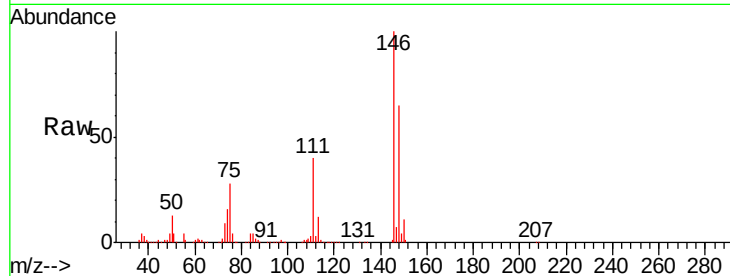
#91
 1,2-Dichlorobenzene
 Concen: 19.123 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. -0.00 min
 Lab File: VN052994.D
 Acq: 19 Dec 2018 6:52

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1218MBSD02

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.2	19.7	59.0
148	64.5	32.0	96.0

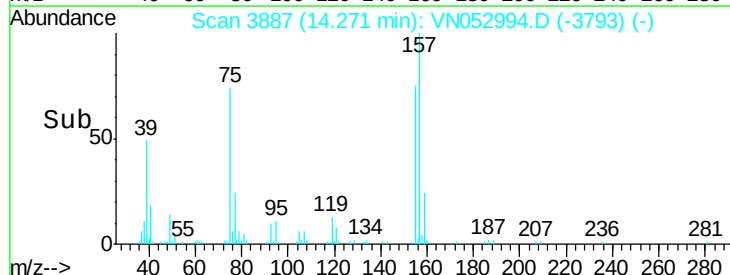
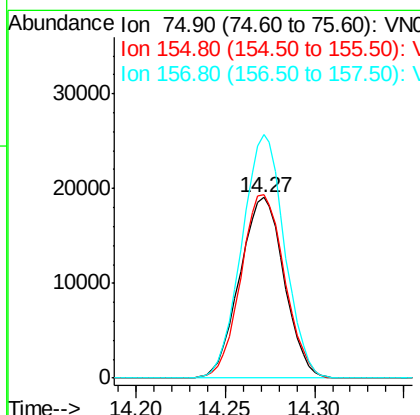
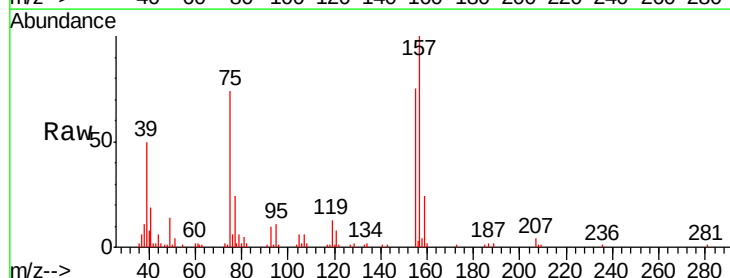
Manual Integrations
 APPROVED

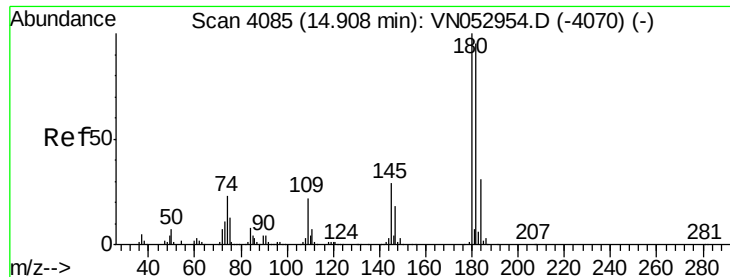
MMDadoda
 12/19/2018 12:08:13 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 18.277 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. 0.00 min
 Lab File: VN052994.D
 Acq: 19 Dec 2018 6:52

Tgt Ion	Ratio	Lower	Upper
75	100		
155	100.1	48.2	144.6
157	129.5	61.2	183.5





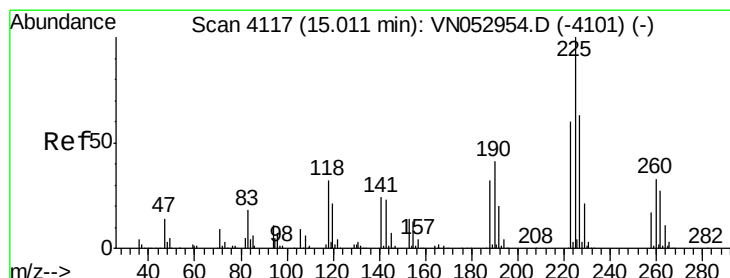
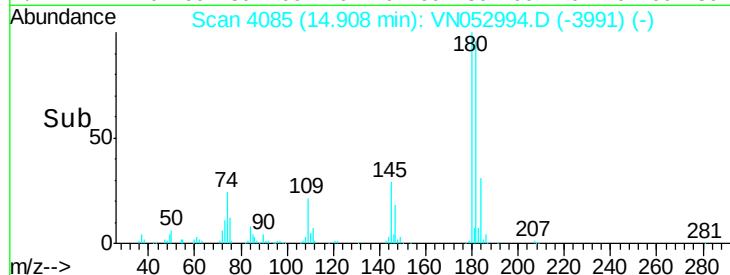
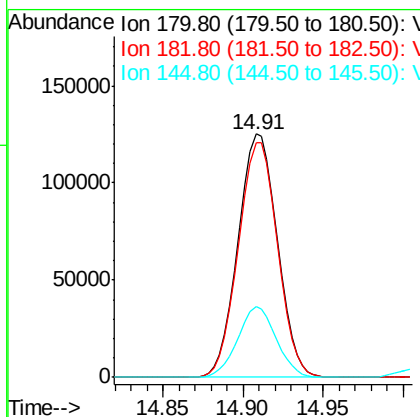
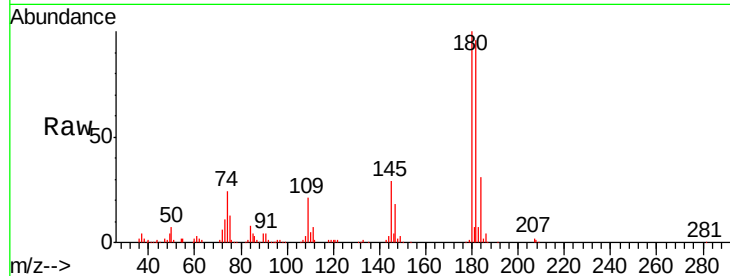
#93
 1,2,4-Trichlorobenzene
 Concen: 17.439 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN052994.D
 Acq: 19 Dec 2018 6:52

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1218MBSD02

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	209049		
182	96.5	47.8	143.3	
145	28.2	14.2	42.6	

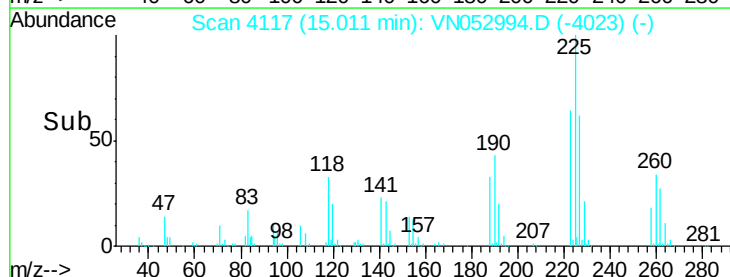
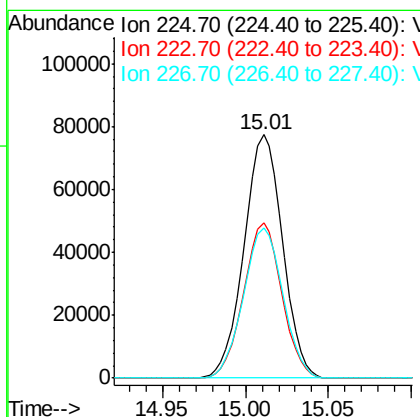
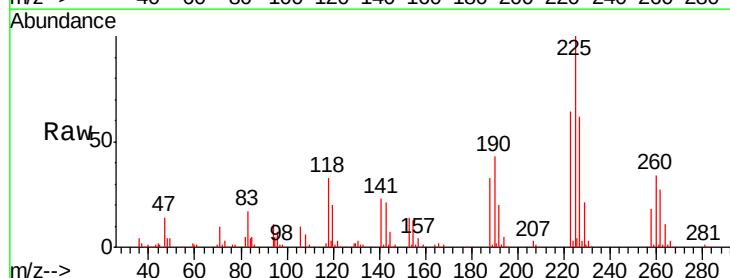
Manual Integrations
 APPROVED

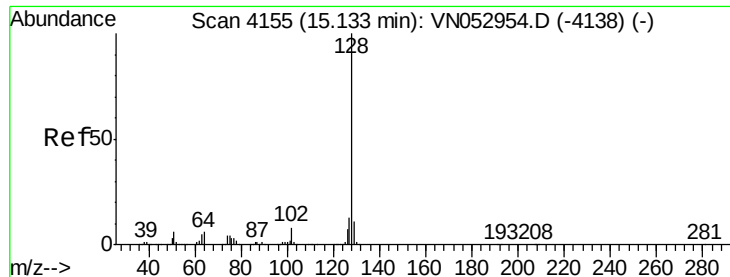
MMDadoda
 12/19/2018 12:08:13 PM



#94
 Hexachlorobutadiene
 Concen: 17.856 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN052994.D
 Acq: 19 Dec 2018 6:52

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	125104		
223	63.1	31.5	94.5	
227	63.1	31.9	95.7	





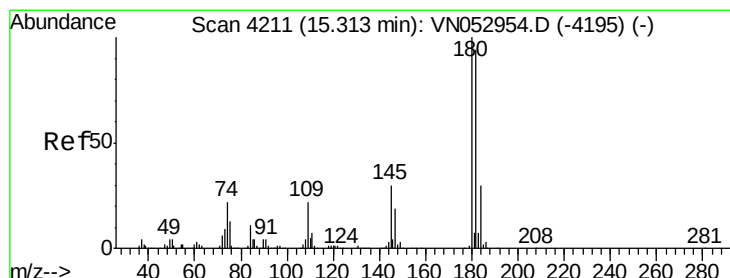
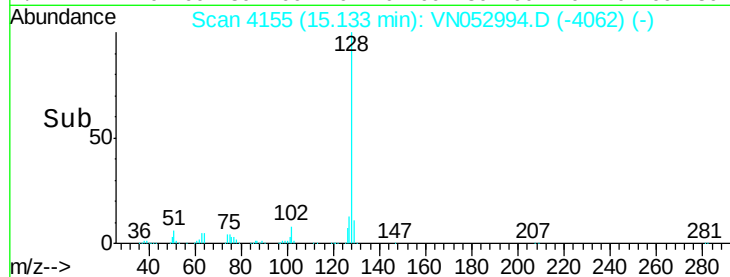
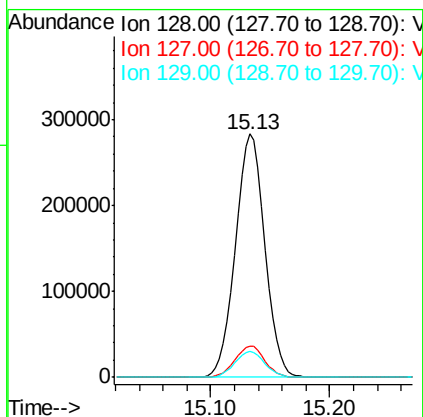
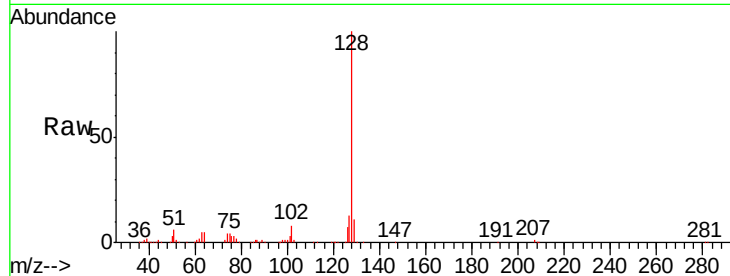
#95
Naphthalene
Concen: 18.727 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. -0.00 min
Lab File: VN052994.D
Acq: 19 Dec 2018 6:52

Instrument :
MSVOA_N
ClientSampleId :
VN1218MBSD02

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	483367		
127	13.0	10.2	15.4	
129	10.9	8.6	13.0	

Manual Integrations
APPROVED

MMDadoda
12/19/2018 12:08:13 PM



#96
1,2,3-Trichlorobenzene
Concen: 17.822 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. 0.00 min
Lab File: VN052994.D
Acq: 19 Dec 2018 6:52

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	193170		
182	95.2	47.9	143.7	
145	30.0	15.0	45.0	

