

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN090418\
 Data File : VN051009.D
 Acq On : 4 Sep 2018 11:00
 Operator : MD\SY
 Sample : VN0904WBS02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0904WBS02

Manual Integrations
 APPROVED

MMDadoda
 9/5/2018 12:00:17 PM

Quant Time: Sep 04 11:25:45 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N082818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 29 01:38:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	115937	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	621027	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	540176	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	216629	29.28	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.60%
60) 4-Bromofluorobenzene	12.40	95	236929	29.50	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.33%
63) Toluene-d8	10.09	98	778818	30.92	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	103.07%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.85	85	135982	18.89	ug/l	98
3) Chloromethane	2.06	50	155780	18.32	ug/l	99
4) Vinyl Chloride	2.18	62	155661	18.53	ug/l	99
5) Bromomethane	2.57	94	85849	16.77	ug/l	98
6) Chloroethane	2.70	64	93147	18.80	ug/l	97
7) Trichlorofluoromethane	3.01	101	213453	19.17	ug/l	98
8) Diethyl Ether	3.41	74	69976	17.82	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	3.76	101	133663	19.38	ug/l	99
10) 1,1-Dichloroethene	3.74	96	116985	18.67	ug/l	97
11) Methyl Iodide	3.95	142	82849	14.17	ug/l	99
12) Methyl Acetate	4.33	43	139001	19.19	ug/l	98
13) Acrolein	3.61	56	7181	44.77	ug/l	90
14) Acrylonitrile	4.99	53	202234	82.57	ug/l	97
15) Acetone	3.82	58	49315	78.69	ug/l	97
16) Carbon Disulfide	4.05	76	334209	17.74	ug/l	100
17) Allyl chloride	4.33	41	179491	18.21	ug/l	98
18) Methylene Chloride	4.55	84	140088	19.05	ug/l	98
19) trans-1,2-Dichloroethene	5.04	96	125902	18.86	ug/l	96
20) Diisopropyl ether	5.96	45	394571	19.28	ug/l	98
21) 1,1-Dichloroethane	5.85	63	239645	19.10	ug/l	98
22) cis-1,2-Dichloroethene	6.83	96	140740	18.67	ug/l	97
23) tert-Butyl Alcohol	4.79	59	39142	75.15	ug/l	# 100
24) Methyl tert-Butyl Ether	5.05	73	304302	17.76	ug/l	97
25) Chloroform	7.37	83	242016	19.33	ug/l	99
26) Cyclohexane	7.65	56	189603	18.24	ug/l	99
29) 1,1-Dichloropropene	7.80	75	176107	18.94	ug/l	99
30) 2-Butanone	6.84	43	221639	77.49	ug/l	99
31) 2,2-Dichloropropane	6.83	77	189684	20.97	ug/l	97
32) 1,1,1-Trichloroethane	7.57	97	204264	19.37	ug/l	100
33) Carbon Tetrachloride	7.78	117	180062	18.96	ug/l	96
34) Benzene	8.04	78	543774	18.91	ug/l	100
35) Methacrylonitrile	7.18	41	49715	15.87	ug/l	98
36) 1,2-Dichloroethane	8.13	62	162847	18.72	ug/l	100
37) Trichloroethene	8.84	130	141776	18.86	ug/l	99
38) Methylcyclohexane	9.08	83	183818	18.41	ug/l	98
39) 1,2-Dichloropropane	9.12	63	147400	19.62	ug/l	98
40) Dibromomethane	9.21	93	83936	18.55	ug/l	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN090418\
 Data File : VN051009.D
 Acq On : 4 Sep 2018 11:00
 Operator : MD\SY
 Sample : VN0904WBS02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0904WBS02

Manual Integrations
 APPROVED

MMDadoda
 9/5/2018 12:00:17 PM

Quant Time: Sep 04 11:25:45 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N082818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 29 01:38:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	180544	18.93	ug/l	98
42) Vinyl Acetate	5.90	43	1108363	84.13	ug/l	100
43) Ethyl Acetate	6.93	43	93297	15.92	ug/l	95
44) Isopropyl Acetate	8.17	43	173474	16.78	ug/l	99
45) 1,4-Dioxane	9.20	88	23854	310.59	ug/l	98
46) Methyl methacrylate	9.20	41	85338	16.48	ug/l	94
47) n-amyl Acetate	12.07	43	122576	14.75	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	168027	17.97	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	203265	18.92	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	121382	18.46	ug/l	97
51) Ethyl methacrylate	10.43	69	131772	16.38	ug/l	99
52) 1,3-Dichloropropane	10.71	76	198277	18.21	ug/l	99
53) Dibromochloromethane	10.90	129	136206	18.22	ug/l	99
54) 1,2-Dibromoethane	11.01	107	114602	17.63	ug/l	99
55) 2-Chloroethyl vinyl ether	9.70	63	273660	81.76	ug/l	99
56) Bromoform	12.13	173	92688	17.43	ug/l	98
58) 4-Methyl-2-Pentanone	9.99	43	502681	81.33	ug/l	99
59) 2-Hexanone	10.75	43	309736	76.67	ug/l	99
61) Tetrachloroethene	10.63	164	132851	19.74	ug/l	96
62) Toluene	10.16	91	582016	19.31	ug/l	100
64) Chlorobenzene	11.43	112	356508	19.09	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	137047	19.43	ug/l	99
66) Ethyl Benzene	11.51	91	582208	18.65	ug/l	99
67) m/p-Xylenes	11.62	106	465462	38.75	ug/l	100
68) o-Xylene	11.95	106	224211	19.54	ug/l	98
69) Styrene	11.96	104	342171	18.75	ug/l	100
70) Isopropylbenzene	12.25	105	591872	19.41	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	146663	17.76	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	122361m	17.18	ug/l	
73) Bromobenzene	12.53	156	149811	18.67	ug/l	98
74) n-propylbenzene	12.59	91	654649	18.99	ug/l	100
75) 2-Chlorotoluene	12.67	91	406909	19.43	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	486043	19.50	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	32107	15.82	ug/l	98
78) 4-Chlorotoluene	12.77	91	385539	18.69	ug/l	100
79) tert-butylbenzene	12.99	119	416594	19.25	ug/l	100
80) 1,2,4-Trimethylbenzene	13.04	105	490008	19.72	ug/l	99
81) sec-Butylbenzene	13.17	105	552711	19.52	ug/l	100
82) p-Isopropyltoluene	13.29	119	466627	19.09	ug/l	98
83) 1,3-Dichlorobenzene	13.28	146	249233	18.37	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	230814	17.96	ug/l	99
85) n-Butylbenzene	13.62	91	322859	17.31	ug/l	98
86) Hexachloroethane	13.87	117	88802	18.93	ug/l	100
87) 1,2-Dichlorobenzene	13.65	146	244648	18.32	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	18706	16.19	ug/l	96
89) 1,2,4-Trichlorobenzene	14.91	180	83876	14.11	ug/l	99
90) Hexachlorobutadiene	15.01	225	80377	19.90	ug/l	99
91) Naphthalene	15.13	128	149437	16.62	ug/l	100
92) 1,2,3-Trichlorobenzene	15.32	180	90162	15.12	ug/l	100

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN090418\
Data File : VN051009.D
Acq On : 4 Sep 2018 11:00
Operator : MD\SY
Sample : VN0904WBS02
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0904WBS02

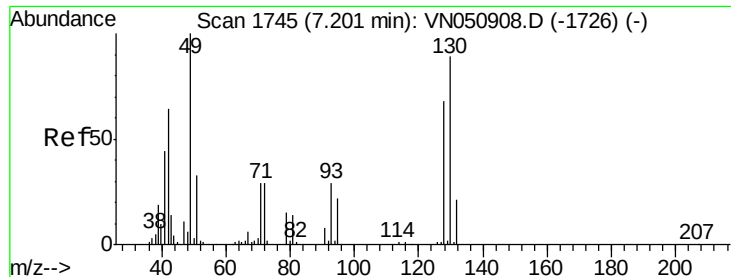
Manual Integrations
APPROVED

MMDadoda
9/5/2018 12:00:17 PM

Quant Time: Sep 04 11:25:45 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N082818W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Aug 29 01:38:44 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
--------------------	------	------	----------	------	-------	----------

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



#1

Bromochloromethane

Concen: 30.00 ug/l

RT: 7.20 min Scan# 1745

Delta R.T. 0.00 min

Lab File: VN051009.D

Acq: 4 Sep 2018 11:00

Instrument :

MSVOA_N

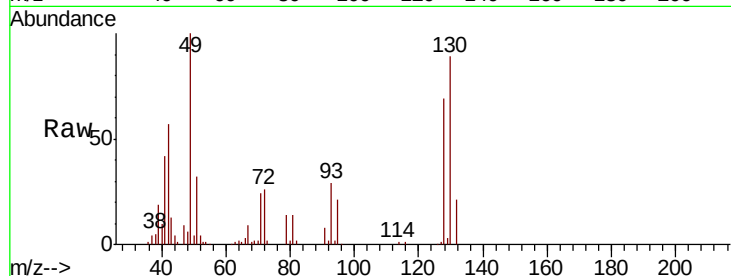
ClientSampleId :

VN0904WBS02

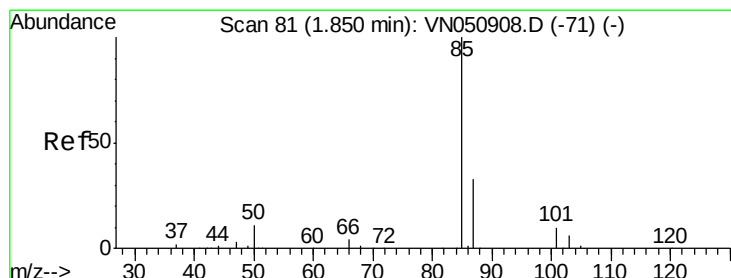
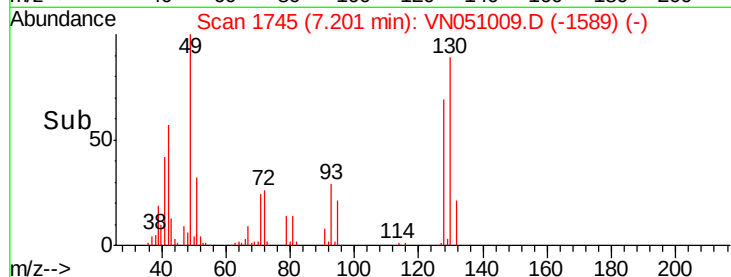
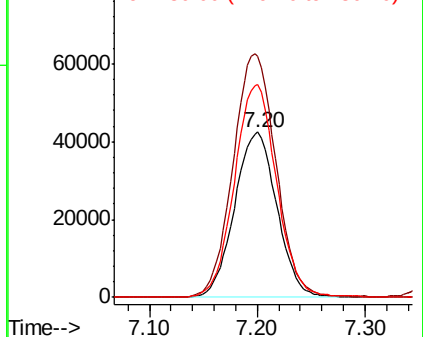
Tot Ion:	128	Resp:	115937
Ion	Ratio	Lower	Upper
128	100		
49	149.4	0.0	380.3
130	128.4	0.0	325.3

Manual Integrations
APPROVED

MMDadoda
9/5/2018 12:00:17 PM



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 49.00 (48.70 to 49.70): VN
Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 18.89 ug/l

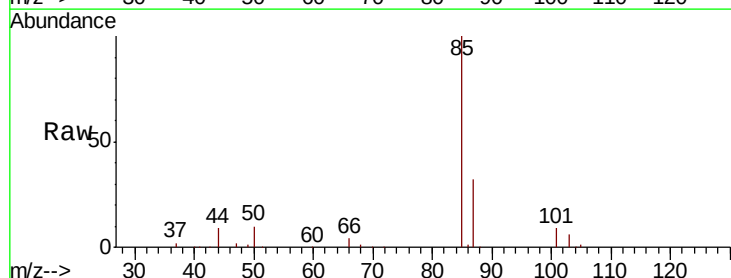
RT: 1.85 min Scan# 81

Delta R.T. 0.00 min

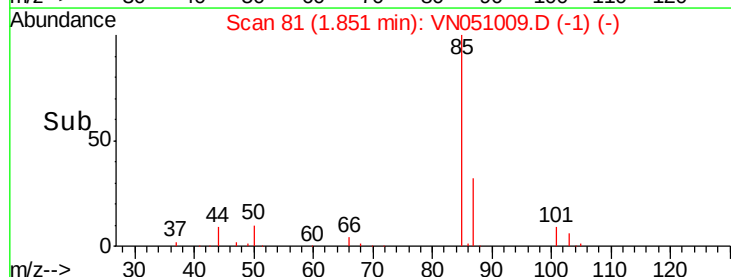
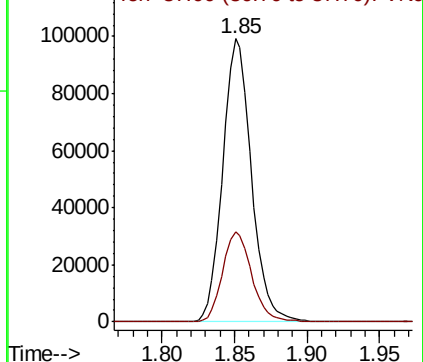
Lab File: VN051009.D

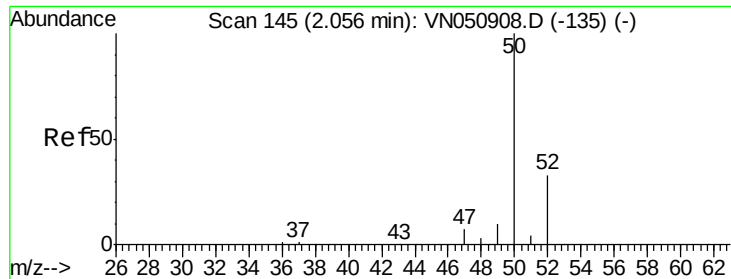
Acq: 4 Sep 2018 11:00

Tgt Ion:	85	Resp:	135982
Ion	Ratio	Lower	Upper
85	100		
87	31.7	16.4	49.1



Abundance Ion 85.00 (84.70 to 85.70): VN
Ion 87.00 (86.70 to 87.70): VN





#3

Chloromethane

Concen: 18.32 ug/l

RT: 2.06 min Scan# 145

Delta R.T. 0.00 min

Lab File: VN051009.D

Acq: 4 Sep 2018 11:00

Instrument :

MSVOA_N

ClientSampled :

VN0904WBS02

Tot Ion: 50 Resp: 155780

Ion Ratio Lower Upper

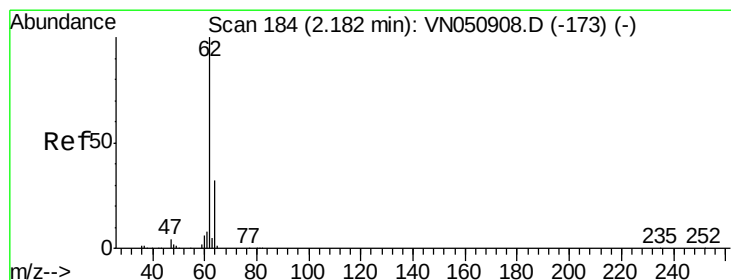
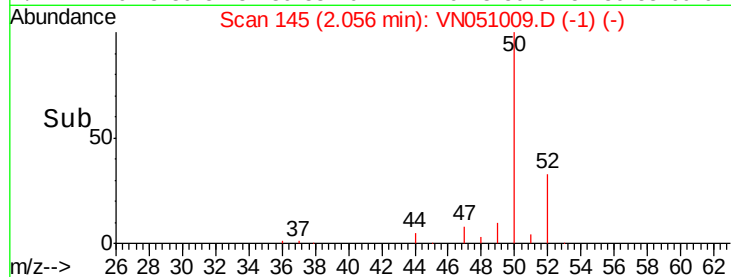
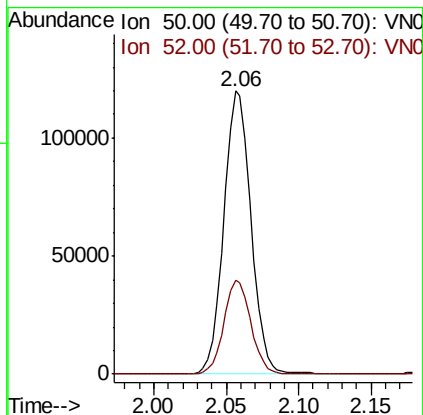
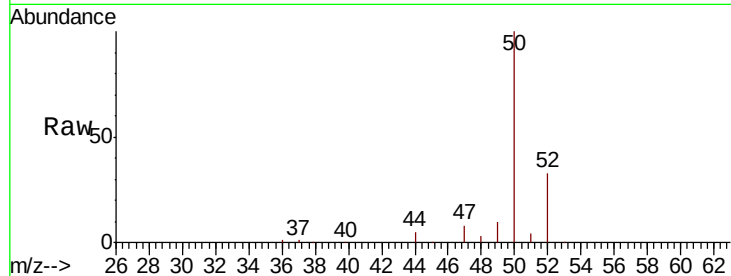
50 100

52 33.4 26.2 39.4

Manual Integrations
APPROVED

MMDadoda

9/5/2018 12:00:17 PM



#4

Vinyl Chloride

Concen: 18.53 ug/l

RT: 2.18 min Scan# 185

Delta R.T. 0.00 min

Lab File: VN051009.D

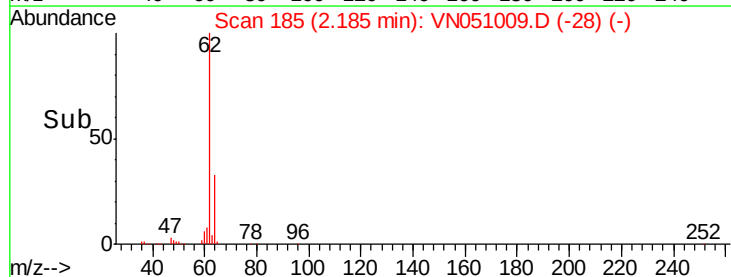
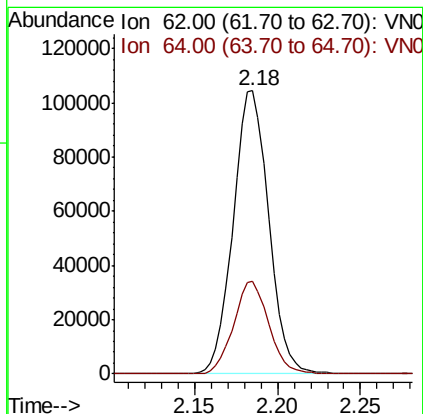
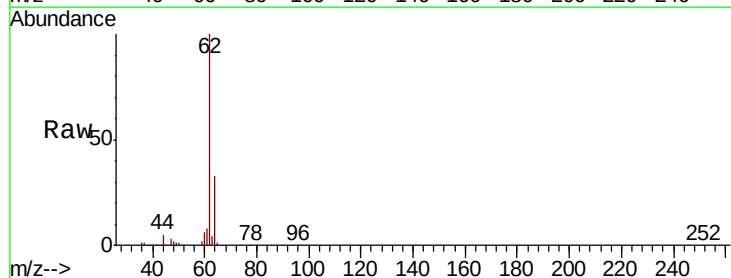
Acq: 4 Sep 2018 11:00

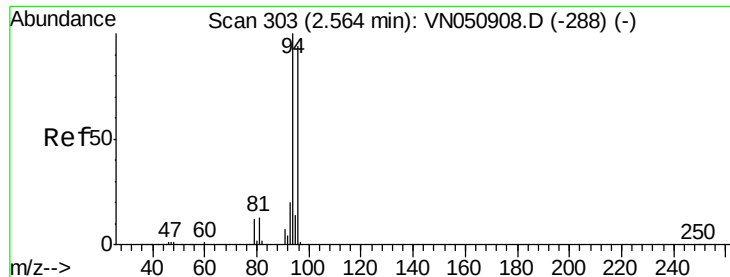
Tgt Ion: 62 Resp: 155661

Ion Ratio Lower Upper

62 100

64 32.5 25.4 38.0





#5

Bromomethane

Concen: 16.77 ug/l

RT: 2.57 min Scan# 304

Delta R.T. 0.00 min

Lab File: VN051009.D

Acq: 4 Sep 2018 11:00

Instrument :

MSVOA_N

ClientSampled :

VN0904WBS02

Tot Ion: 94 Resp: 85849

Ion Ratio Lower Upper

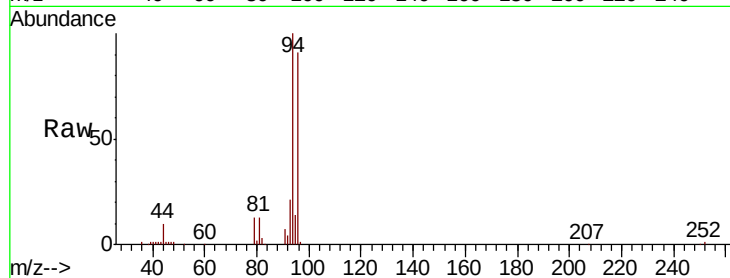
94 100

96 91.2 74.9 112.3

Manual Integrations
APPROVED

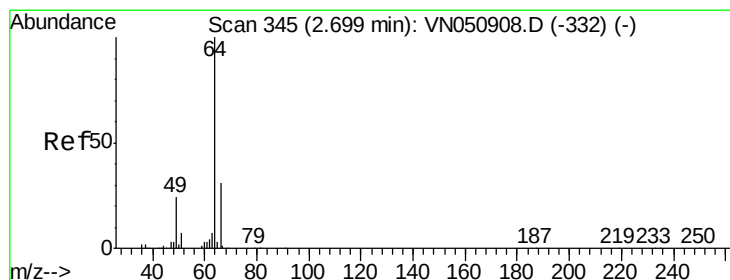
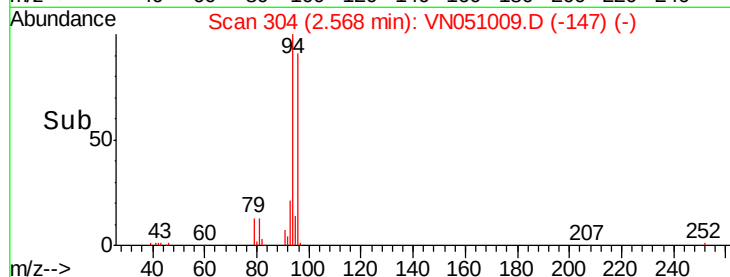
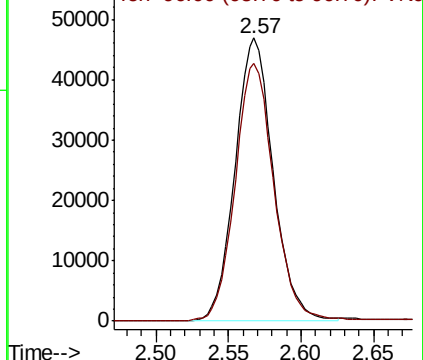
MMDadoda

9/5/2018 12:00:17 PM



Abundance Ion 94.00 (93.70 to 94.70): VN0

Ion 96.00 (95.70 to 96.70): VN0



#6

Chloroethane

Concen: 18.80 ug/l

RT: 2.70 min Scan# 346

Delta R.T. 0.00 min

Lab File: VN051009.D

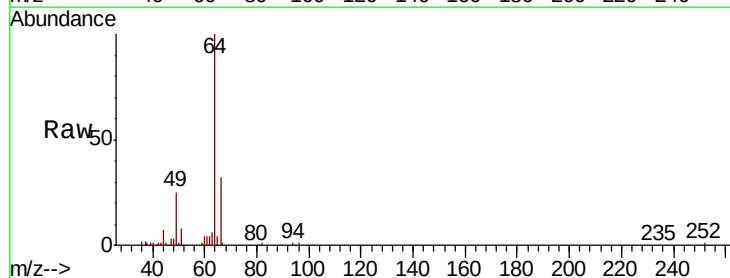
Acq: 4 Sep 2018 11:00

Tgt Ion: 64 Resp: 93147

Ion Ratio Lower Upper

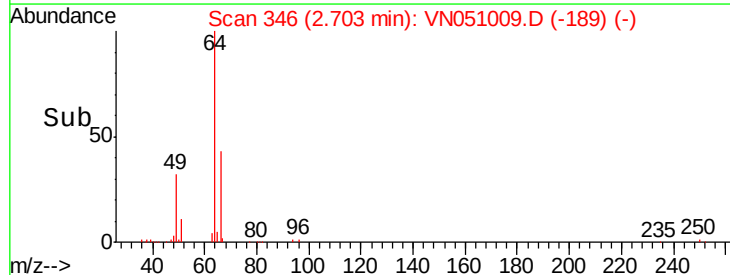
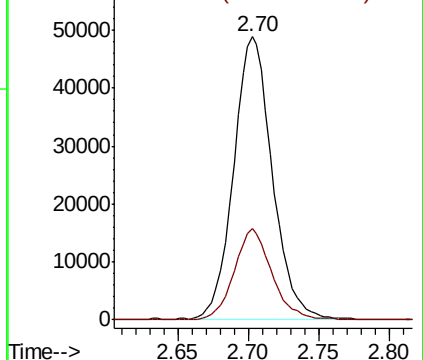
64 100

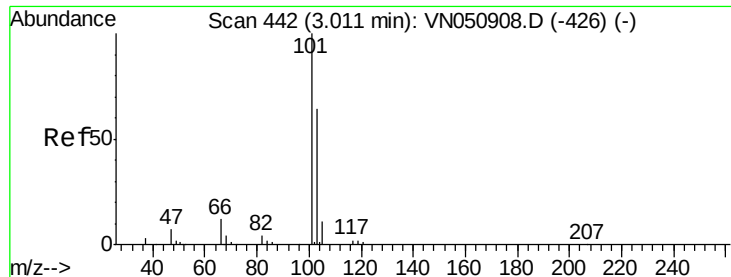
66 32.3 24.5 36.7



Abundance Ion 64.00 (63.70 to 64.70): VN0

Ion 66.00 (65.70 to 66.70): VN0





#7

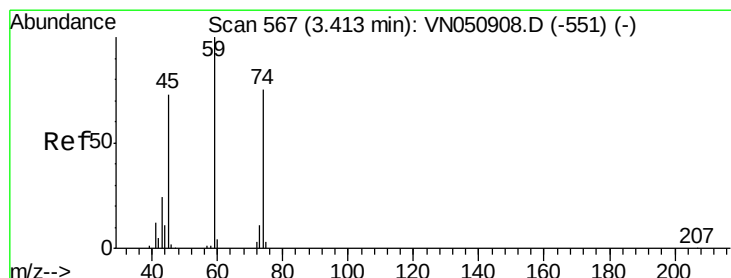
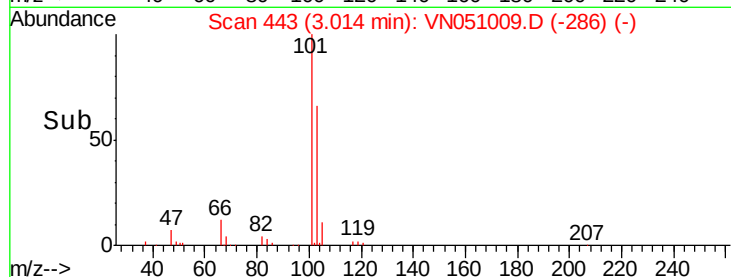
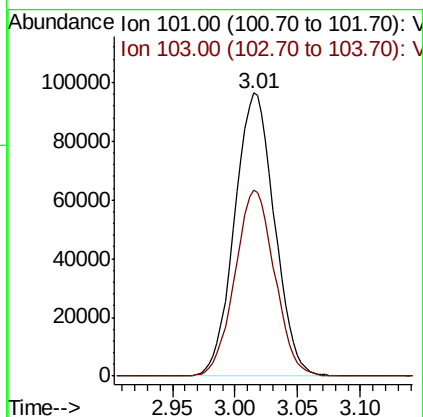
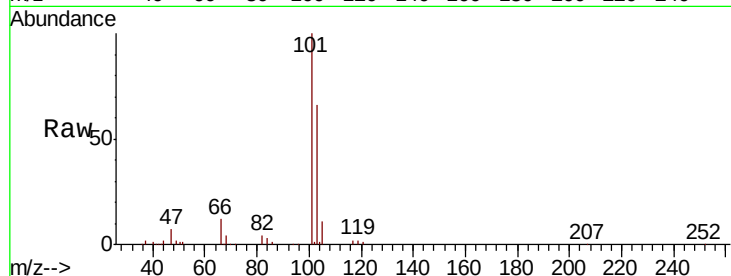
Trichlorofluoromethane
 Concen: 19.17 ug/l
 RT: 3.01 min Scan# 443
 Delta R.T. 0.00 min
 Lab File: VN051009.D
 Acq: 4 Sep 2018 11:00

Instrument :
 MSVOA_N
 ClientSampled :
 VN0904WBS02

Tot Ion	Ratio	Resp	Lower	Upper
101	100	213453		
103	65.8	51.3	76.9	

Manual Integrations
 APPROVED

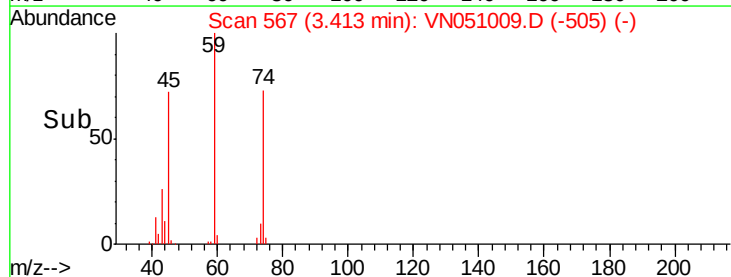
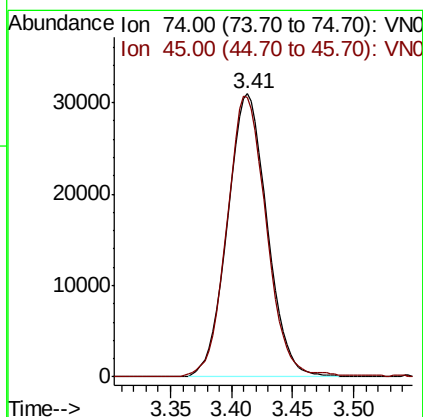
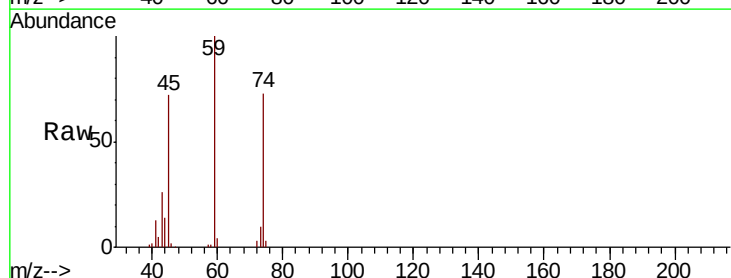
MMDadoda
 9/5/2018 12:00:17 PM

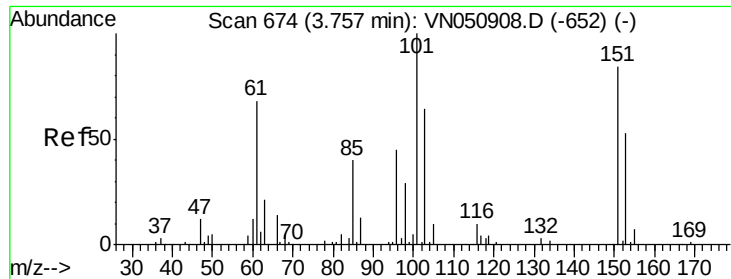


#8

Diethyl Ether
 Concen: 17.82 ug/l
 RT: 3.41 min Scan# 567
 Delta R.T. 0.00 min
 Lab File: VN051009.D
 Acq: 4 Sep 2018 11:00

Tgt Ion	Ratio	Resp	Lower	Upper
74	100	69976		
45	98.3	19.7	177.1	





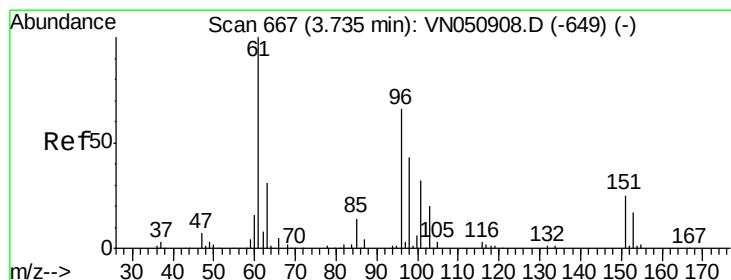
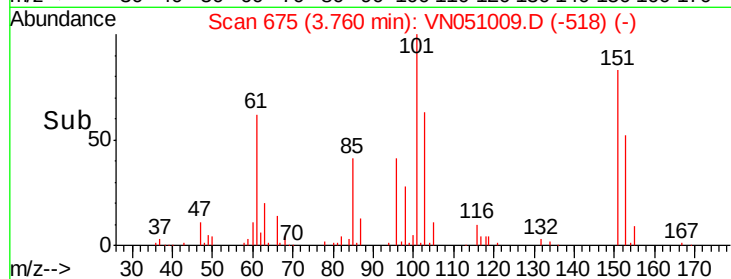
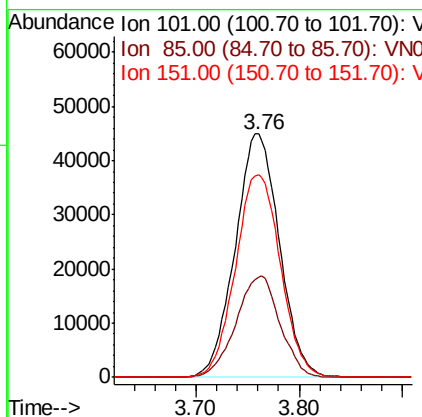
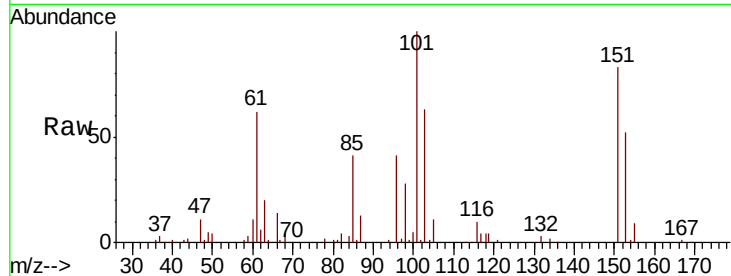
#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 19.38 ug/l
 RT: 3.76 min Scan# 675
 Delta R.T. 0.00 min
 Lab File: VN051009.D
 Acq: 4 Sep 2018 11:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0904WBS02

Tot Ion	Ratio	Resp	Lower	Upper
101	100	133663		
85	41.4	0.0	83.6	
151	84.8	0.0	167.0	

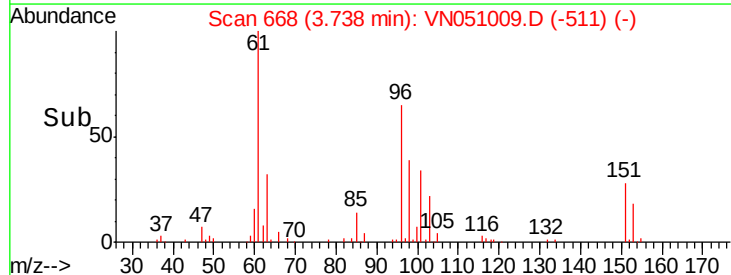
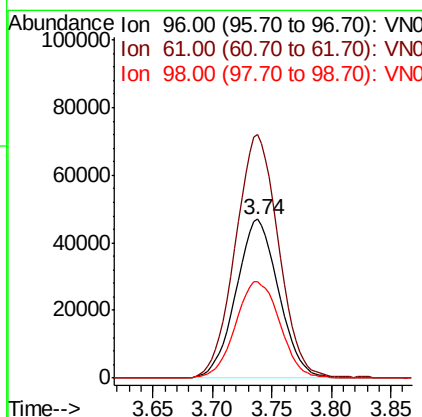
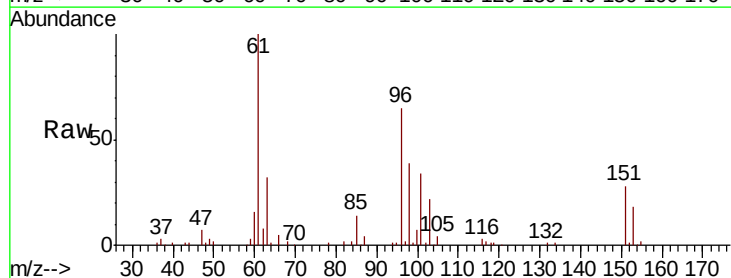
Manual Integrations
 APPROVED

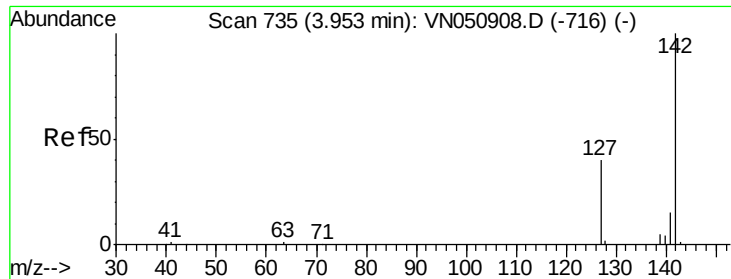
MMDadoda
 9/5/2018 12:00:17 PM



#10
 1,1-Dichloroethene
 Concen: 18.67 ug/l
 RT: 3.74 min Scan# 668
 Delta R.T. 0.00 min
 Lab File: VN051009.D
 Acq: 4 Sep 2018 11:00

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	116985		
61	153.5	121.8	182.8	
98	60.5	52.3	78.5	





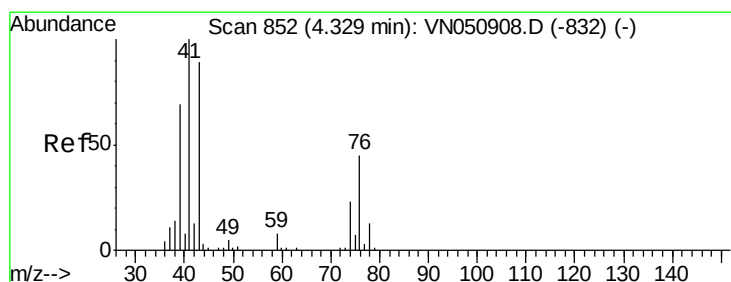
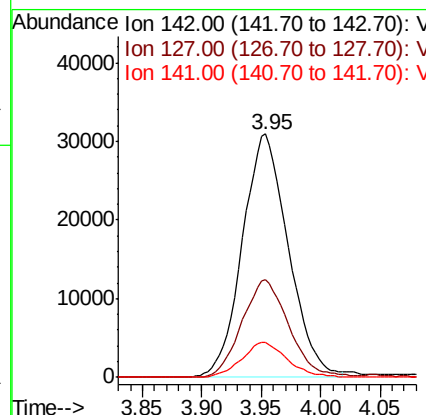
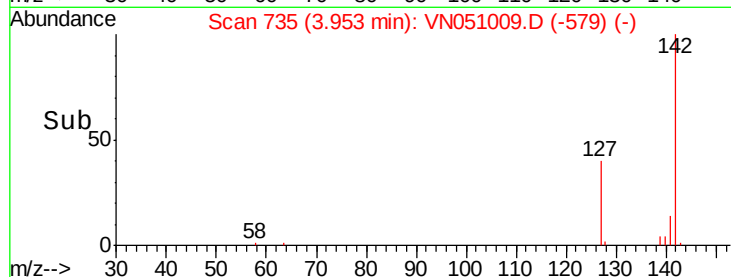
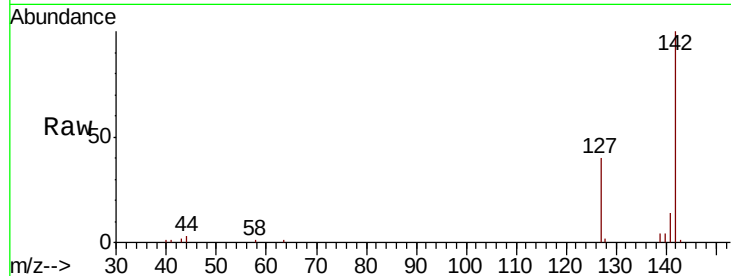
#11
Methvl Iodide
Concen: 14.17 ug/l
RT: 3.95 min Scan# 735
Delta R.T. 0.00 min
Lab File: VN051009.D
Acq: 4 Sep 2018 11:00

Instrument :
MSVOA_N
ClientSampleId :
VN0904WBS02

Tot Ion	Ratio	Lower	Upper
142	100		
127	40.2	19.7	59.1
141	14.3	7.3	22.0

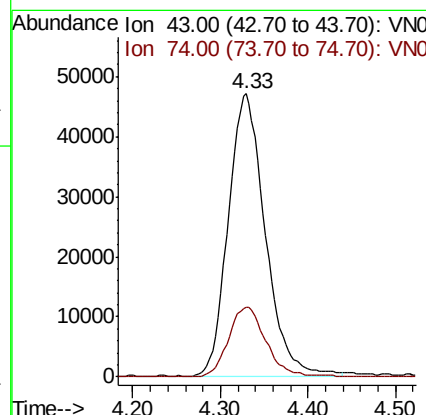
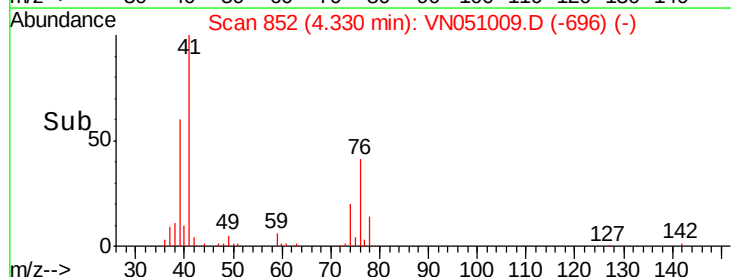
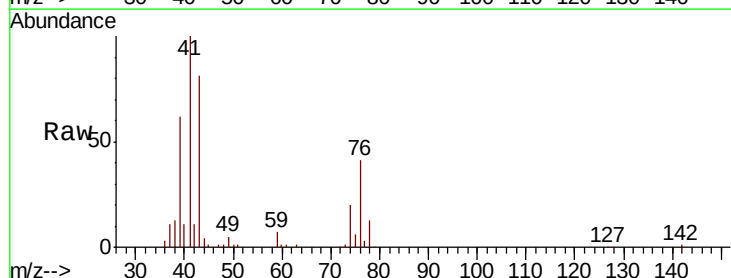
Manual Integrations
APPROVED

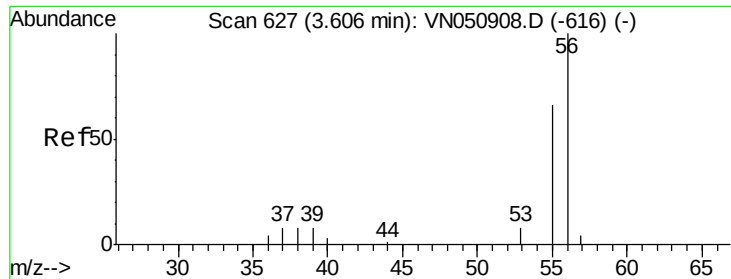
MMDadoda
9/5/2018 12:00:17 PM



#12
Methyl Acetate
Concen: 19.19 ug/l
RT: 4.33 min Scan# 852
Delta R.T. 0.00 min
Lab File: VN051009.D
Acq: 4 Sep 2018 11:00

Tgt Ion	Ratio	Lower	Upper
43	100		
74	24.7	20.6	31.0





#13

Acrolein

Concen: 44.77 ug/l

RT: 3.61 min Scan# 628

Delta R.T. 0.00 min

Lab File: VN051009.D

Acq: 4 Sep 2018 11:00

Instrument :

MSVOA_N

ClientSampled :

VN0904WBS02

Tot Ion: 56 Resp: 7181

Ion Ratio Lower Upper

56 100

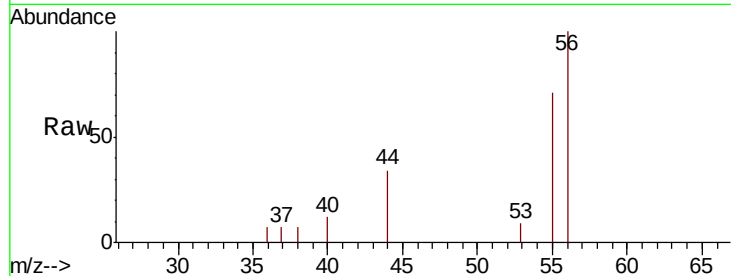
55 65.8 59.1 88.7

Manual Integrations

APPROVED

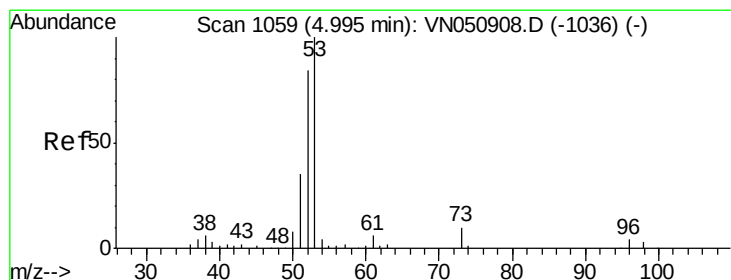
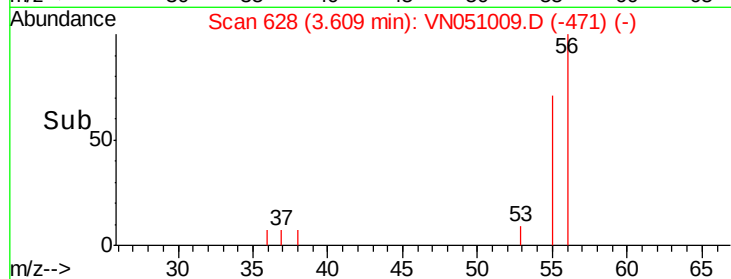
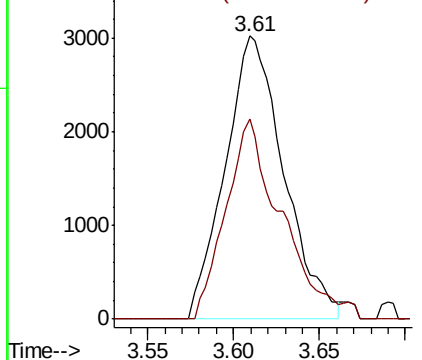
MMDadoda

9/5/2018 12:00:17 PM



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Acrylonitrile

Concen: 82.57 ug/l

RT: 4.99 min Scan# 1058

Delta R.T. -0.00 min

Lab File: VN051009.D

Acq: 4 Sep 2018 11:00

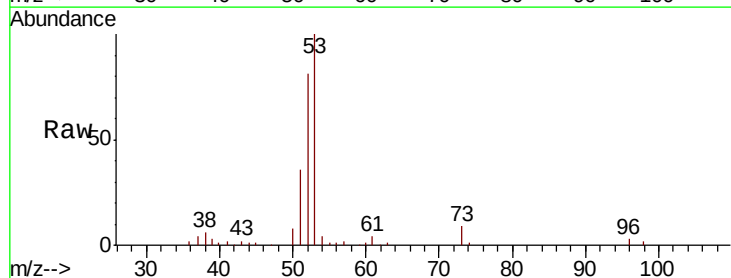
Tgt Ion: 53 Resp: 202234

Ion Ratio Lower Upper

53 100

52 81.7 42.2 126.6

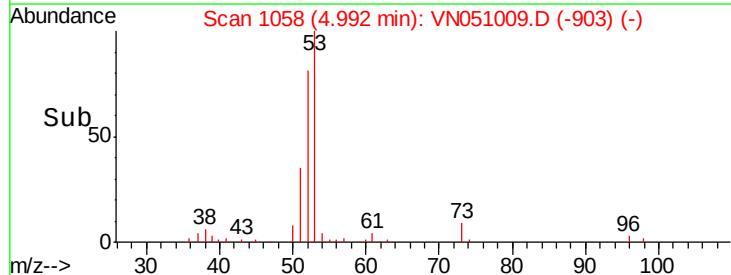
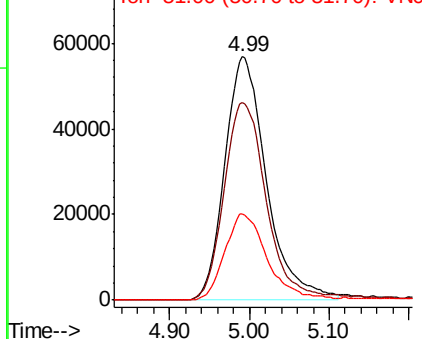
51 36.2 17.7 53.1

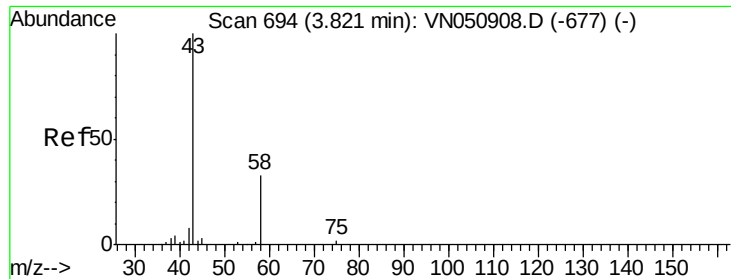


Abundance Ion 53.00 (52.70 to 53.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

Ion 51.00 (50.70 to 51.70): VN0





#15

Acetone

Concen: 78.69 ug/l

RT: 3.82 min Scan# 694

Delta R.T. 0.00 min

Lab File: VN051009.D

Acq: 4 Sep 2018 11:00

Instrument :

MSVOA_N

ClientSampleId :

VN0904WBS02

Tot Ion: 58 Resp: 49315

Ion Ratio Lower Upper

58 100

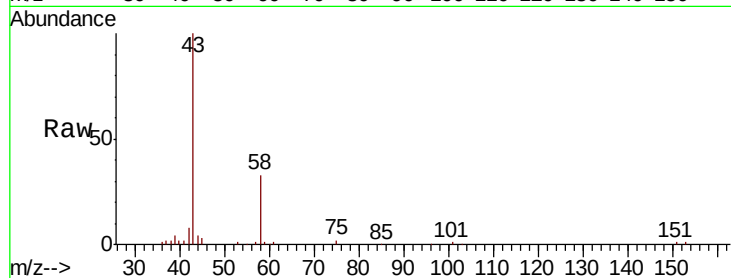
43 304.4 239.4 359.0

Manual Integrations

APPROVED

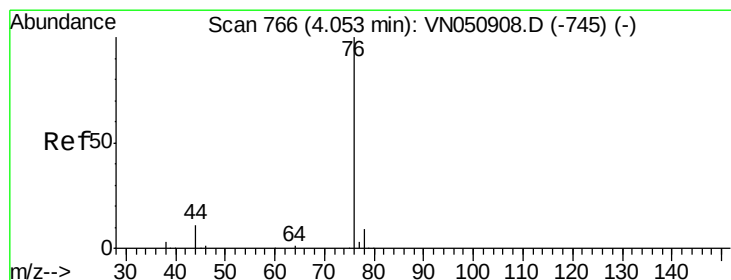
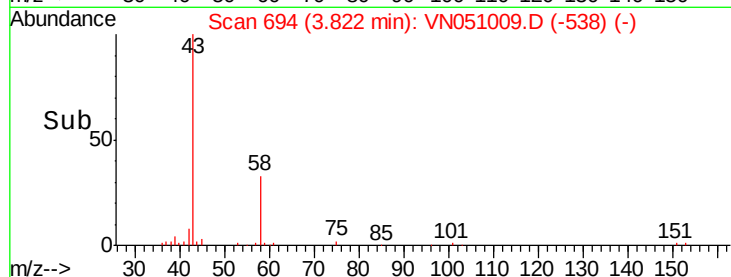
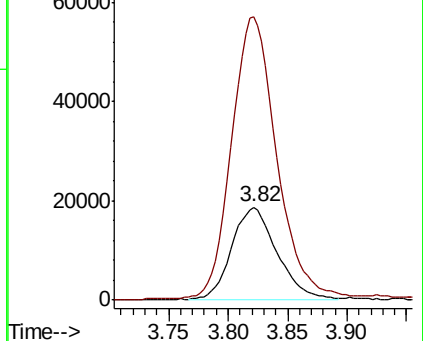
MMDadoda

9/5/2018 12:00:17 PM



Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0



#16

Carbon Disulfide

Concen: 17.74 ug/l

RT: 4.05 min Scan# 766

Delta R.T. 0.00 min

Lab File: VN051009.D

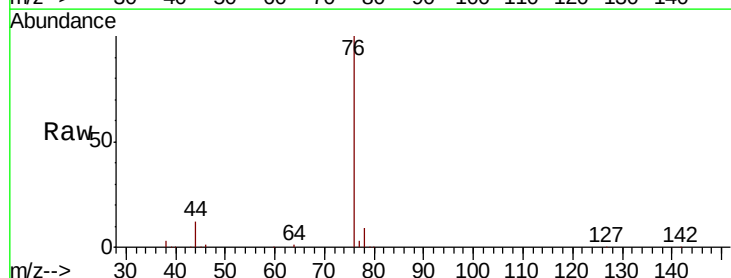
Acq: 4 Sep 2018 11:00

Tgt Ion: 76 Resp: 334209

Ion Ratio Lower Upper

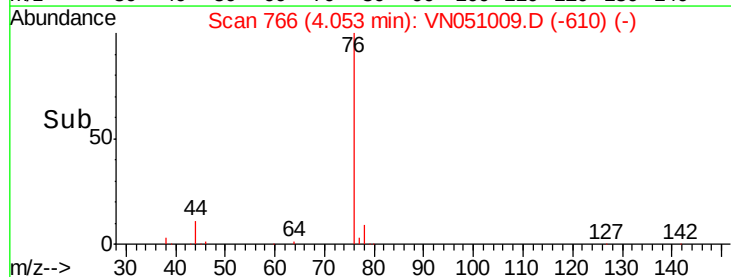
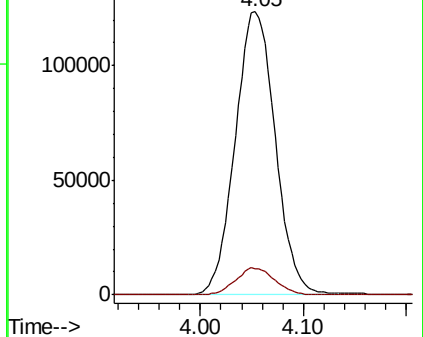
76 100

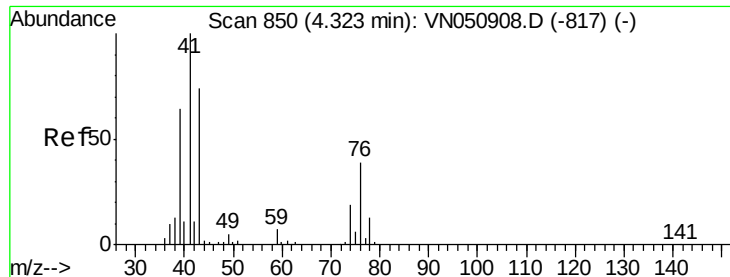
78 9.2 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VN0

Ion 78.00 (77.70 to 78.70): VN0





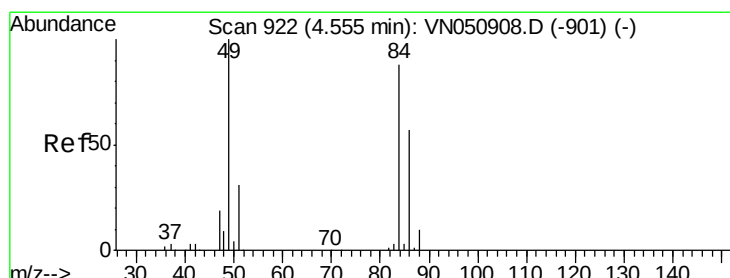
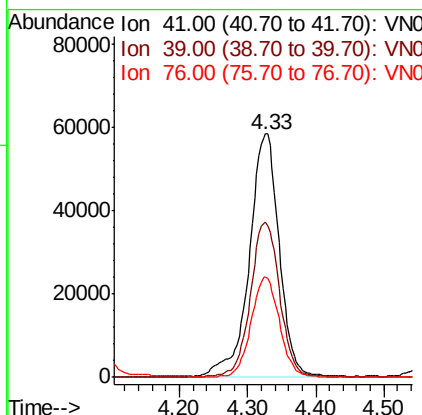
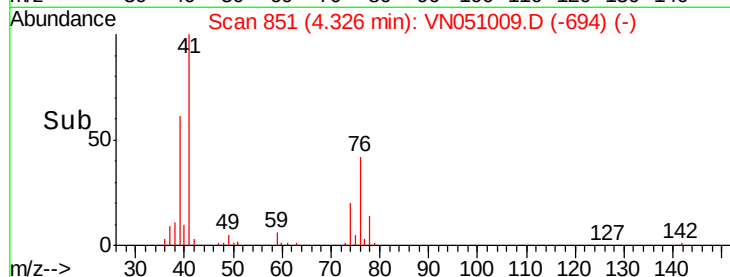
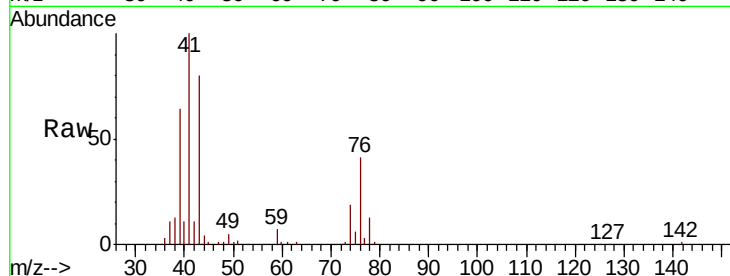
#17
Allvl chloride
Concen: 18.21 ug/l
RT: 4.33 min Scan# 851
Delta R.T. 0.00 min
Lab File: VN051009.D
Acq: 4 Sep 2018 11:00

Instrument :
MSVOA_N
ClientSampleId :
VN0904WBS02

Tot Ion:	41	Resp:	179491
Ion	Ratio	Lower	Upper
41	100		
39	63.8	32.2	96.6
76	41.4	19.6	58.7

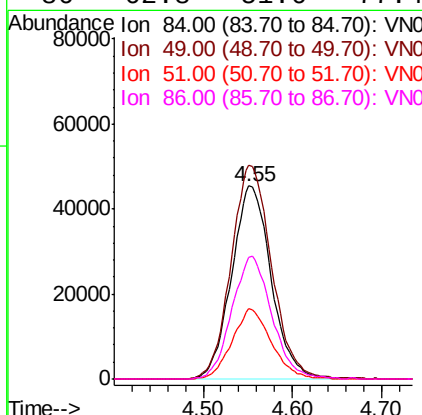
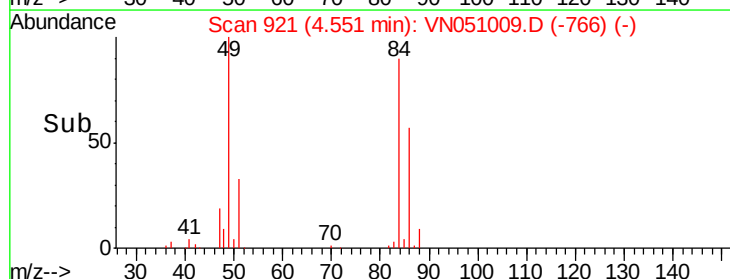
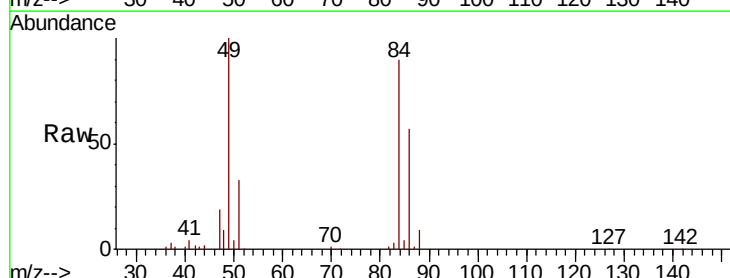
Manual Integrations
APPROVED

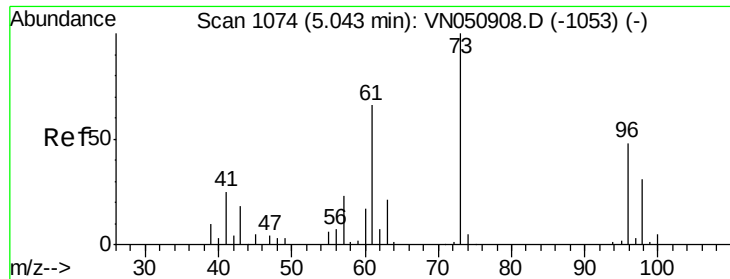
MMDadoda
9/5/2018 12:00:17 PM



#18
Methylene Chloride
Concen: 19.05 ug/l
RT: 4.55 min Scan# 921
Delta R.T. -0.00 min
Lab File: VN051009.D
Acq: 4 Sep 2018 11:00

Tgt Ion:	84	Resp:	140088
Ion	Ratio	Lower	Upper
84	100		
49	110.7	90.6	135.8
51	36.2	28.4	42.6
86	62.8	51.6	77.4





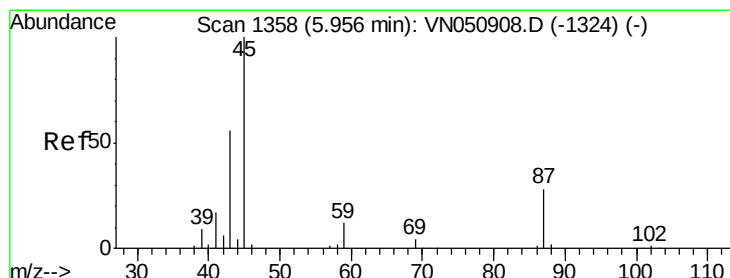
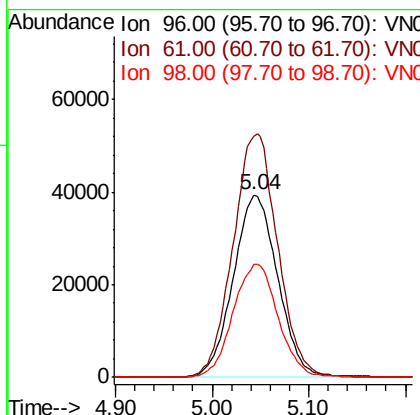
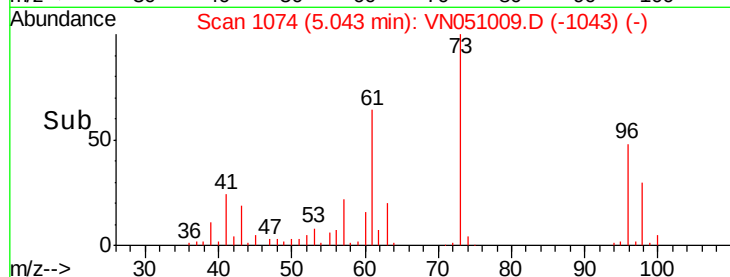
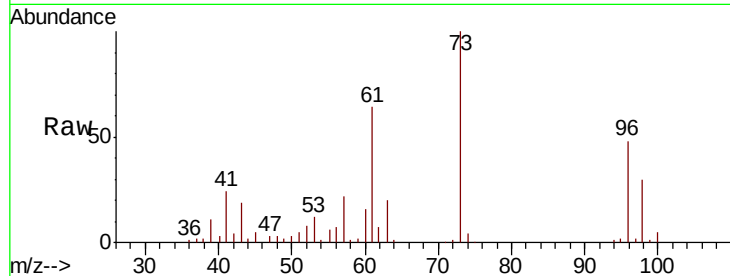
#19
trans-1,2-Dichloroethene
Concen: 18.86 ug/l
RT: 5.04 min Scan# 1074
Delta R.T. 0.00 min
Lab File: VN051009.D
Acq: 4 Sep 2018 11:00

Instrument :
MSVOA_N
ClientSampled :
VN0904WBS02

Tot Ion	Ratio	Lower	Upper
96	100		
61	131.5	109.5	164.3
98	61.8	51.9	77.9

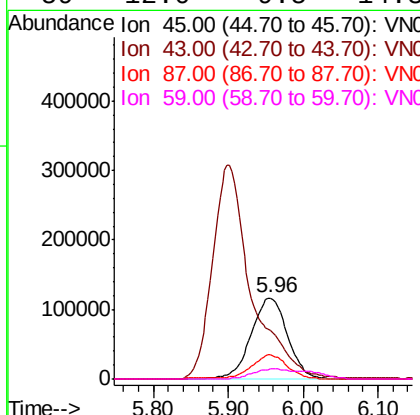
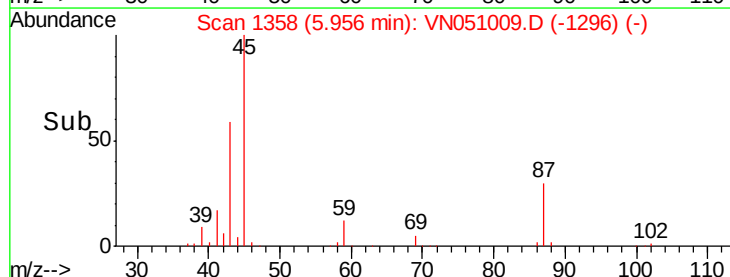
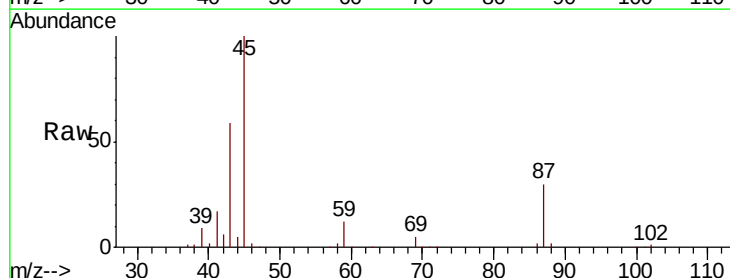
Manual Integrations
APPROVED

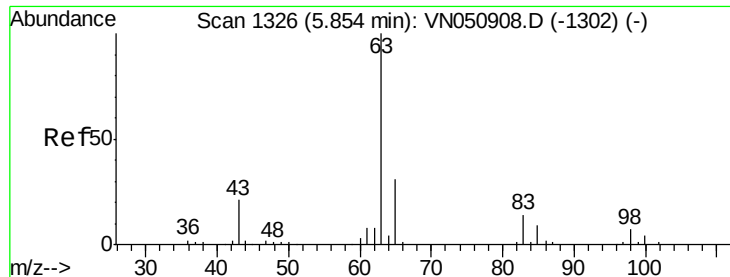
MMDadoda
9/5/2018 12:00:17 PM



#20
Diisopropyl ether
Concen: 19.28 ug/l
RT: 5.96 min Scan# 1358
Delta R.T. 0.00 min
Lab File: VN051009.D
Acq: 4 Sep 2018 11:00

Tgt Ion	Ratio	Lower	Upper
45	100		
43	57.1	47.0	70.6
87	30.1	22.8	34.2
59	12.0	9.5	14.3





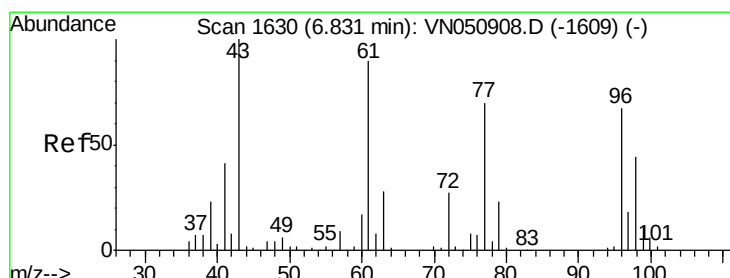
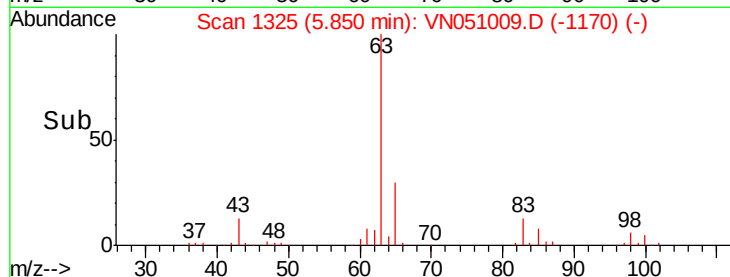
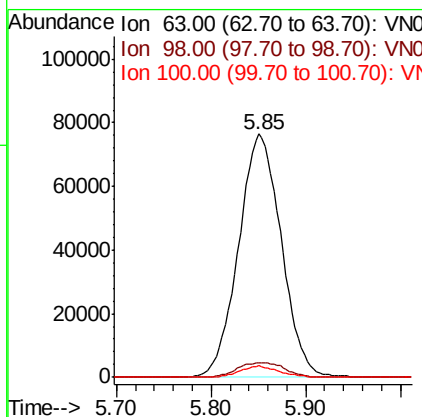
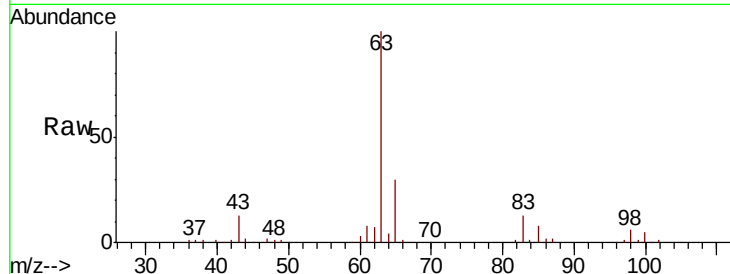
#21
 1,1-Dichloroethane
 Concen: 19.10 ug/l
 RT: 5.85 min Scan# 1325
 Delta R.T. -0.00 min
 Lab File: VN051009.D
 Acq: 4 Sep 2018 11:00

Instrument :
 MSVOA_N
 ClientSampled :
 VN0904WBS02

Tot Ion	Ratio	Resp	Lower	Upper
63	100	239645		
98	5.9	3.3	9.9	
100	4.6	2.0	6.0	

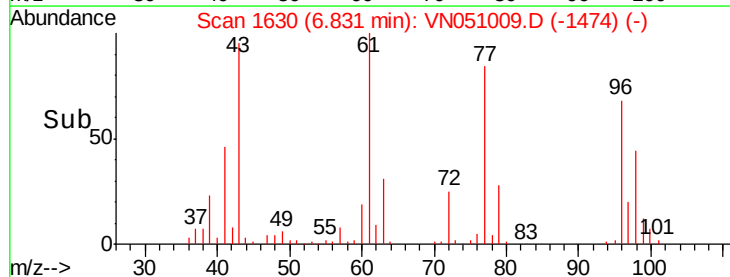
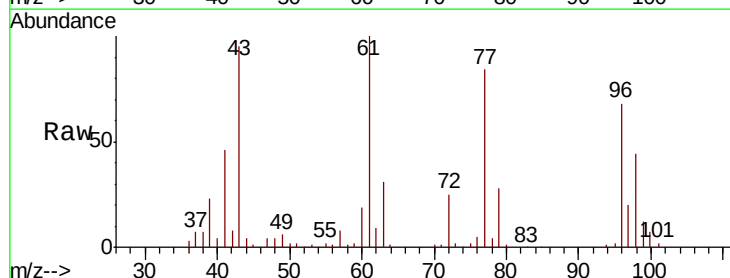
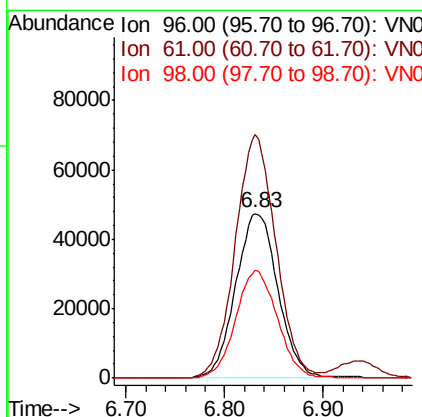
Manual Integrations
 APPROVED

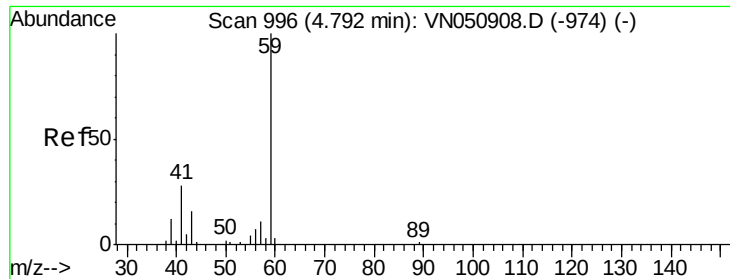
MMDadoda
 9/5/2018 12:00:17 PM



#22
 cis-1,2-Dichloroethene
 Concen: 18.67 ug/l
 RT: 6.83 min Scan# 1630
 Delta R.T. 0.00 min
 Lab File: VN051009.D
 Acq: 4 Sep 2018 11:00

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	140740		
61	142.4	110.0	165.0	
98	64.7	51.7	77.5	





#23

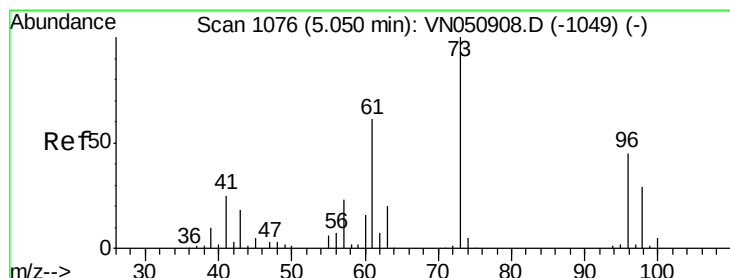
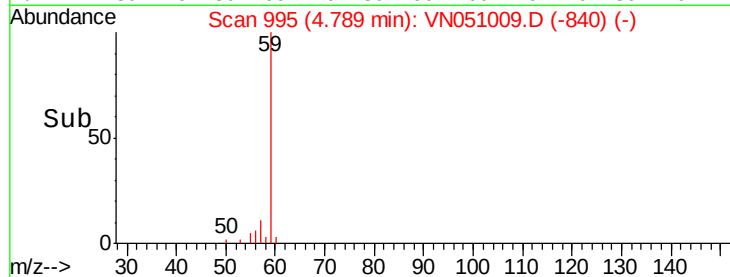
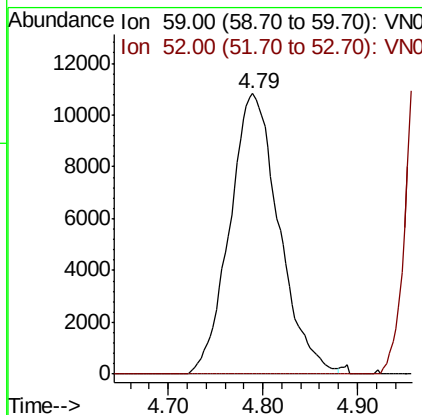
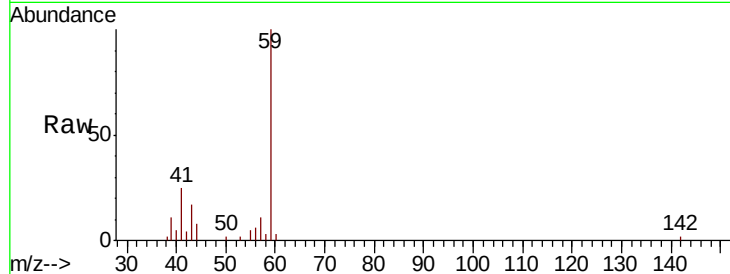
tert-Butyl Alcohol
 Concen: 75.15 ug/l
 RT: 4.79 min Scan# 995
 Delta R.T. -0.00 min
 Lab File: VN051009.D
 Acq: 4 Sep 2018 11:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0904WBS02

Tot Ion	Ion	Ratio	Lower	Upper
59	100			
52	0.0	0.1	0.1#	

Manual Integrations
 APPROVED

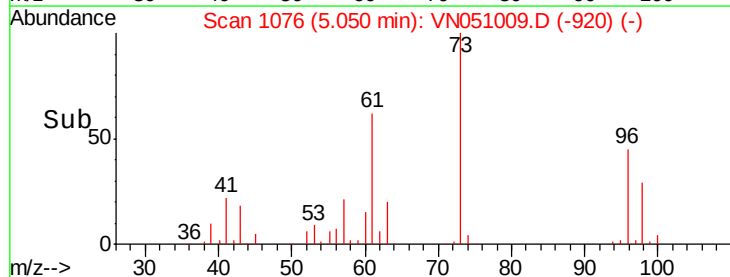
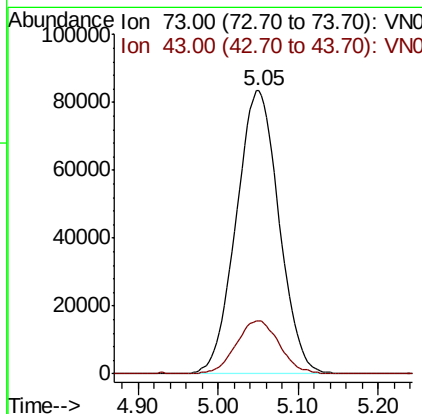
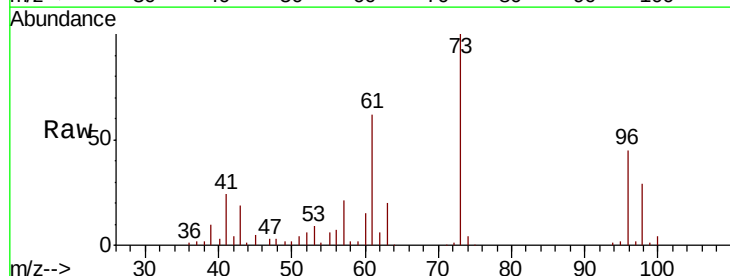
MMDadoda
 9/5/2018 12:00:17 PM

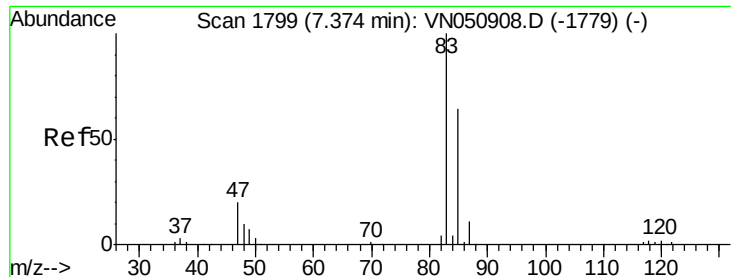


#24

Methyl tert-Butyl Ether
 Concen: 17.76 ug/l
 RT: 5.05 min Scan# 1076
 Delta R.T. 0.00 min
 Lab File: VN051009.D
 Acq: 4 Sep 2018 11:00

Tgt Ion	Ion	Ratio	Lower	Upper
73	100			
43	19.1	14.4	21.6	





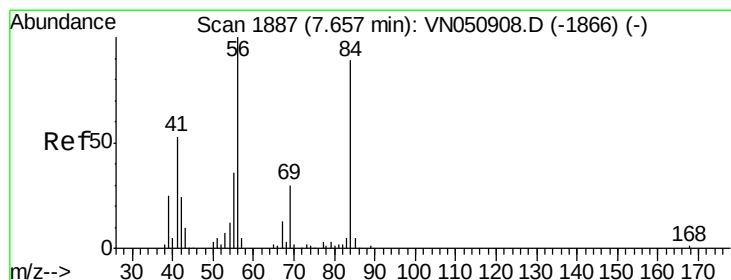
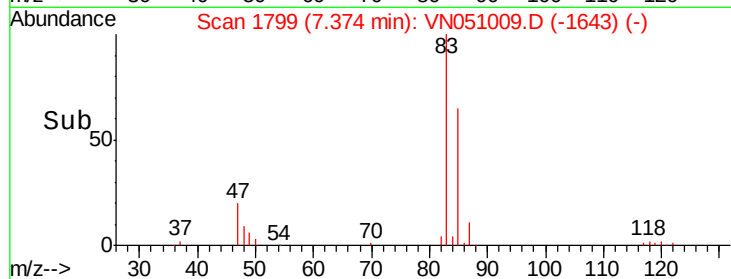
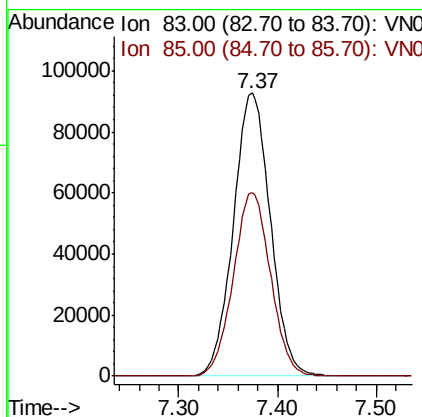
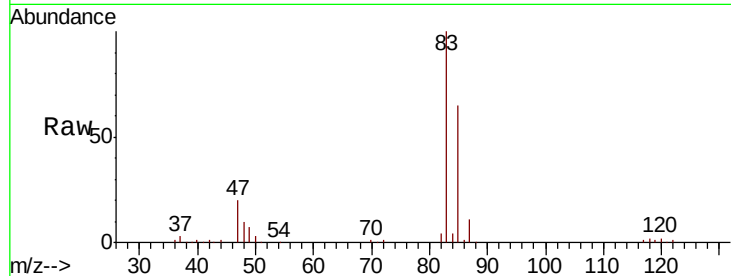
#25
Chloroform
Concen: 19.33 ug/l
RT: 7.37 min Scan# 1799
Delta R.T. 0.00 min
Lab File: VN051009.D
Acq: 4 Sep 2018 11:00

Instrument :
MSVOA_N
ClientSampled :
VN0904WBS02

Tot Ion	83	Resp	242016
Ion Ratio	100	Lower	Upper
83	100		
85	65.0	51.4	77.0

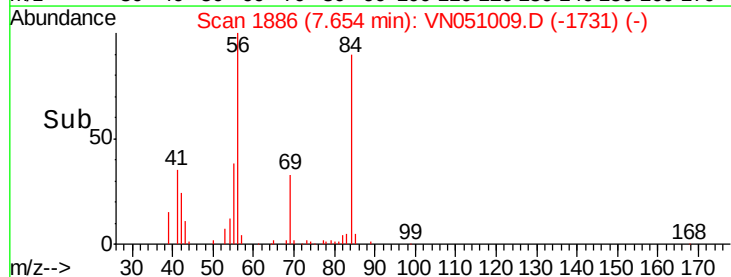
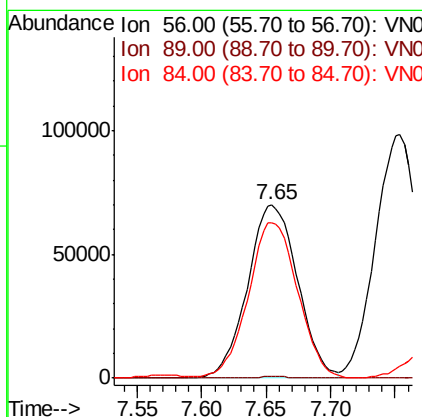
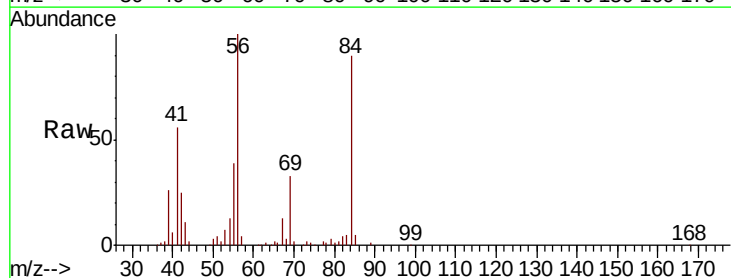
Manual Integrations
APPROVED

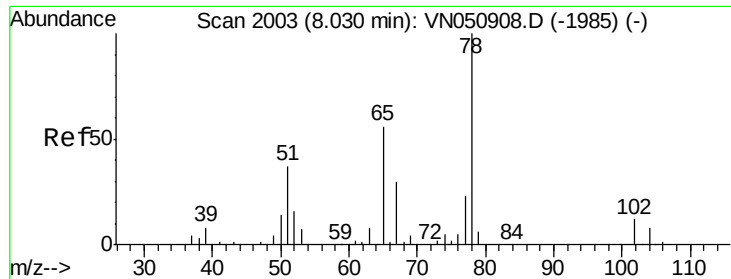
MMDadoda
9/5/2018 12:00:17 PM



#26
Cyclohexane
Concen: 18.24 ug/l
RT: 7.65 min Scan# 1886
Delta R.T. -0.00 min
Lab File: VN051009.D
Acq: 4 Sep 2018 11:00

Tgt Ion	56	Resp	189603
Ion Ratio	100	Lower	Upper
56	100		
89	0.5	0.4	0.6
84	88.6	70.4	105.6





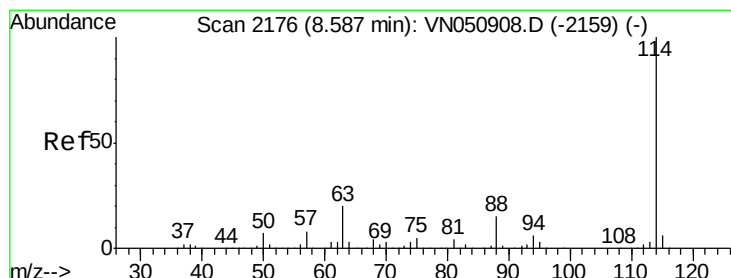
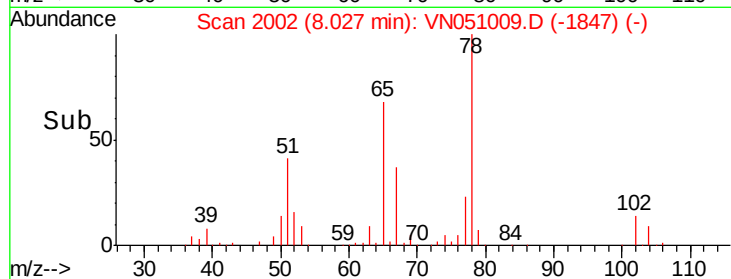
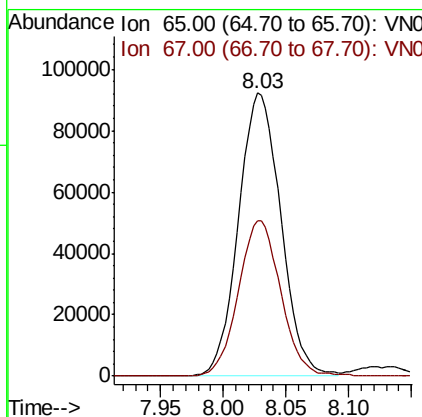
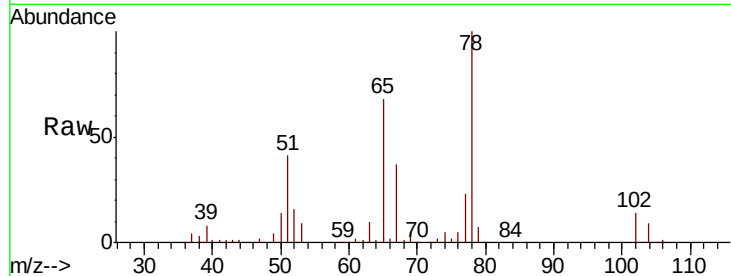
#27
 1,2-Dichloroethane-d4
 Concen: 29.28 ug/l
 RT: 8.03 min Scan# 2002
 Delta R.T. -0.00 min
 Lab File: VN051009.D
 Acq: 4 Sep 2018 11:00

Instrument :
 MSVOA_N
 ClientSampled :
 VN0904WBS02

Tot Ion: 65 Resp: 216629
 Ion Ratio Lower Upper
 65 100
 67 55.0 43.7 65.5

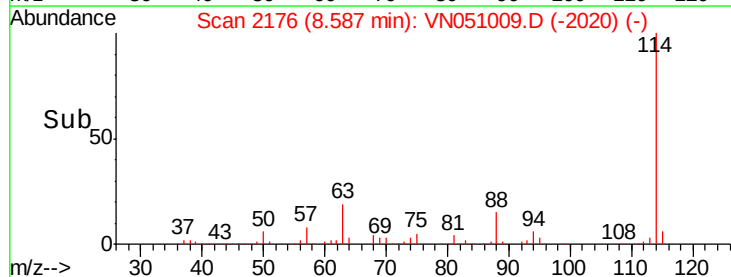
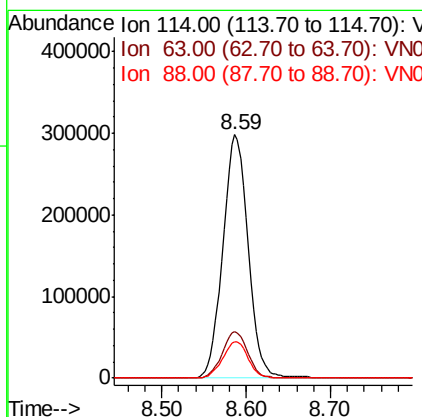
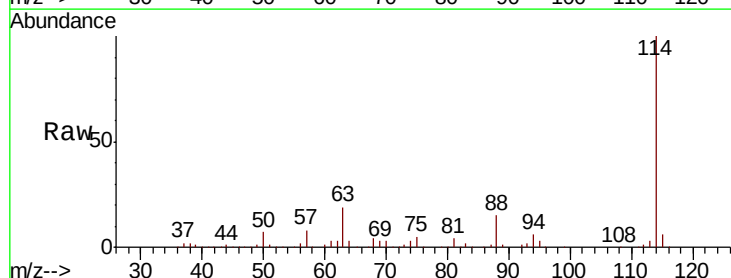
Manual Integrations
 APPROVED

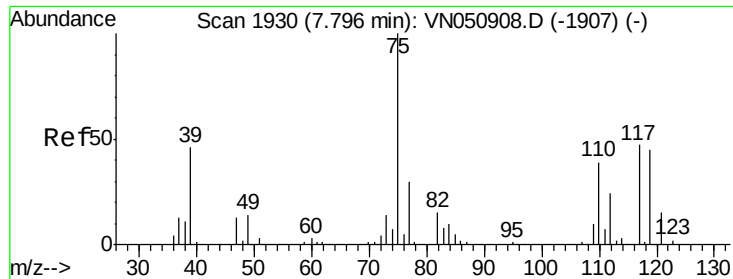
MMDadoda
 9/5/2018 12:00:17 PM



#28
 1,4-Difluorobenzene
 Concen: 30.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. 0.00 min
 Lab File: VN051009.D
 Acq: 4 Sep 2018 11:00

Tgt Ion: 114 Resp: 621027
 Ion Ratio Lower Upper
 114 100
 63 19.3 15.6 23.4
 88 15.1 12.2 18.4





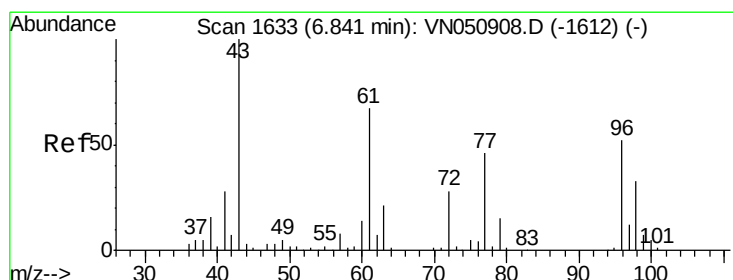
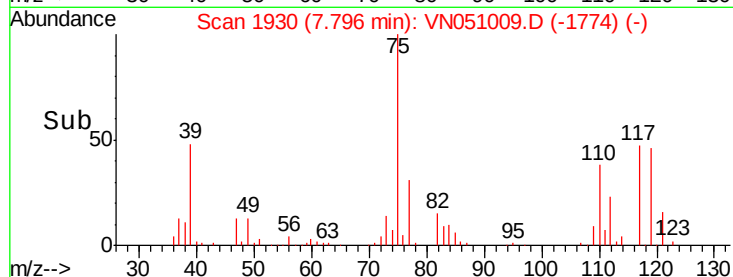
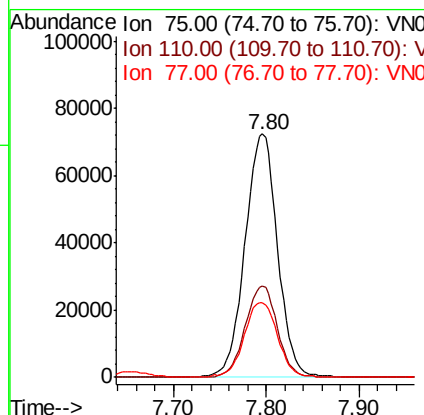
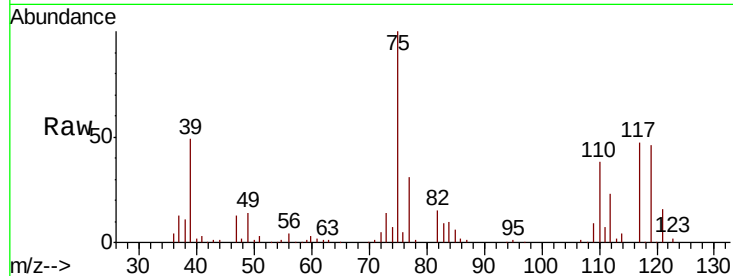
#29
 1,1-Dichloropropene
 Concen: 18.94 ug/l
 RT: 7.80 min Scan# 1930
 Delta R.T. 0.00 min
 Lab File: VN051009.D
 Acq: 4 Sep 2018 11:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0904WBS02

Tot Ion	Ratio	Resp Lower	Upper
75	100		
110	37.1	0.0	75.0
77	31.6	0.0	60.6

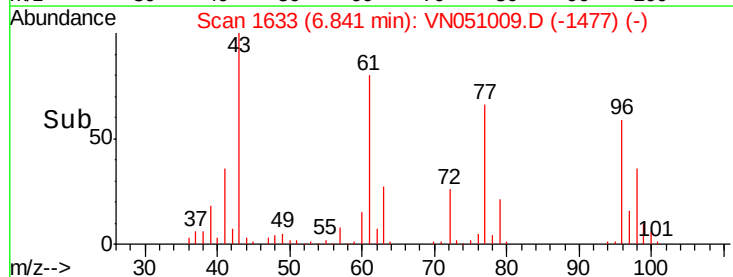
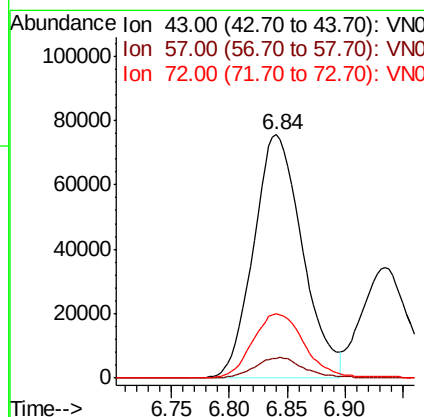
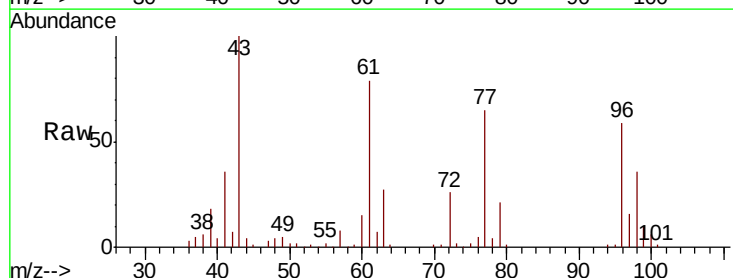
Manual Integrations
 APPROVED

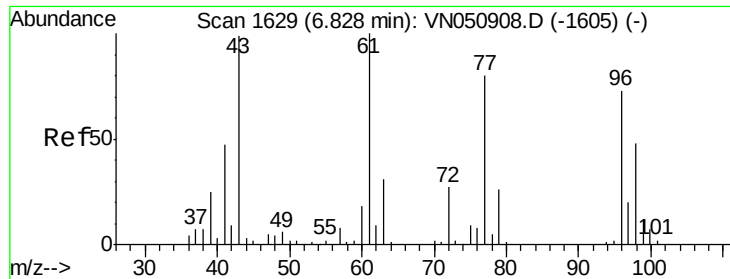
MMDadoda
 9/5/2018 12:00:17 PM



#30
 2-Butanone
 Concen: 77.49 ug/l
 RT: 6.84 min Scan# 1633
 Delta R.T. 0.00 min
 Lab File: VN051009.D
 Acq: 4 Sep 2018 11:00

Tgt Ion	Ratio	Resp Lower	Upper
43	100		
57	8.5	6.9	10.3
72	27.8	22.8	34.2





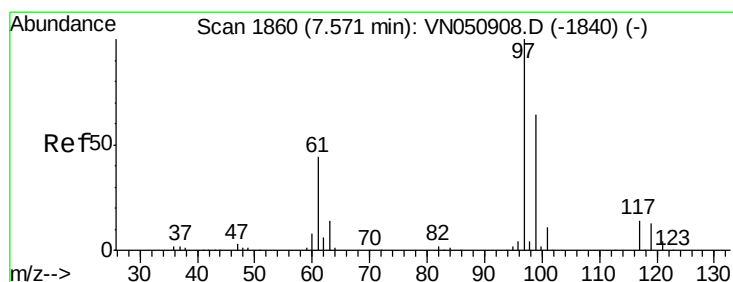
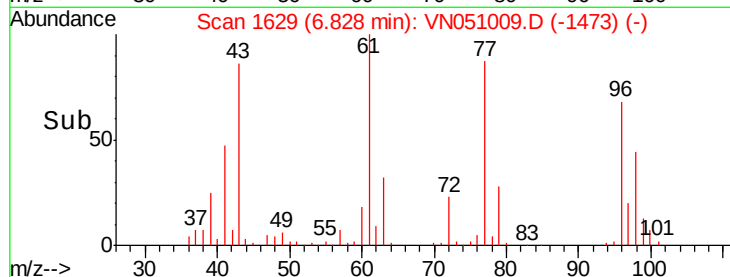
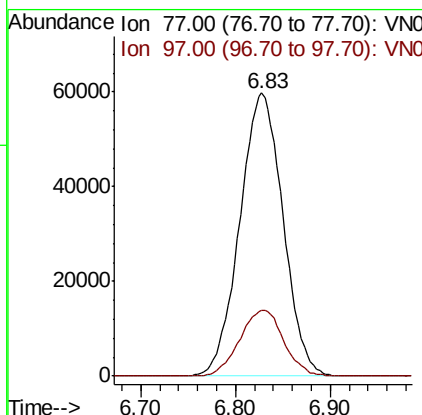
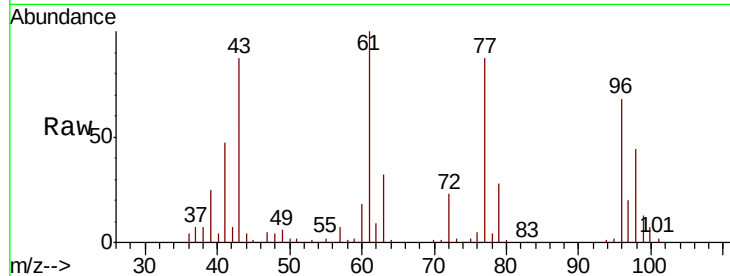
#31
 2,2-Dichloropropane
 Concen: 20.97 ug/l
 RT: 6.83 min Scan# 1629
 Delta R.T. 0.00 min
 Lab File: VN051009.D
 Acq: 4 Sep 2018 11:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0904WBS02

Tot Ion: 77 Resp: 189684
 Ion Ratio Lower Upper
 77 100
 97 23.6 20.2 30.2

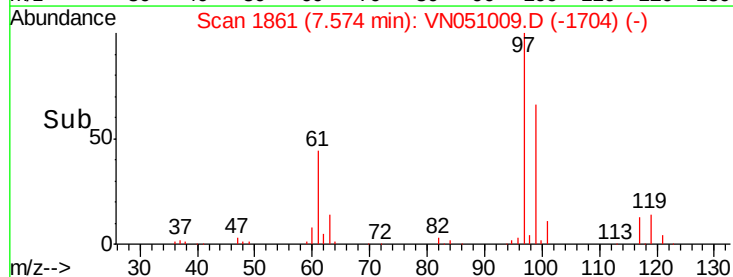
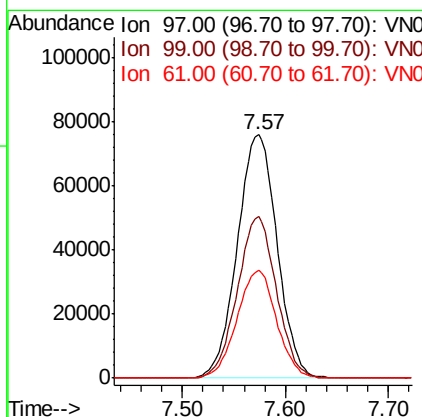
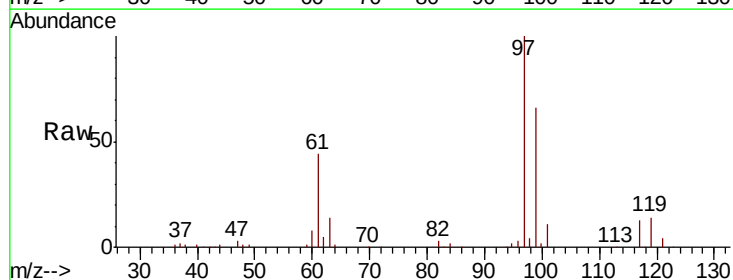
Manual Integrations
 APPROVED

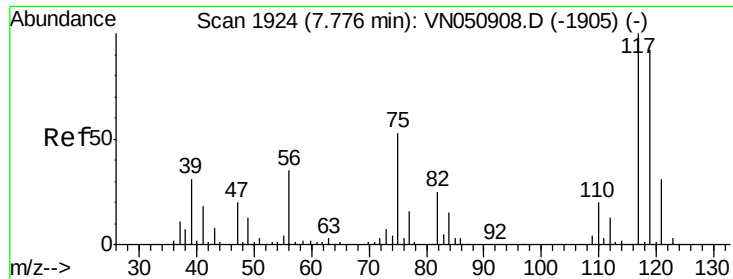
MMDadoda
 9/5/2018 12:00:17 PM



#32
 1,1,1-Trichloroethane
 Concen: 19.37 ug/l
 RT: 7.57 min Scan# 1861
 Delta R.T. 0.00 min
 Lab File: VN051009.D
 Acq: 4 Sep 2018 11:00

Tgt Ion: 97 Resp: 204264
 Ion Ratio Lower Upper
 97 100
 99 65.0 52.0 78.0
 61 43.9 35.0 52.6





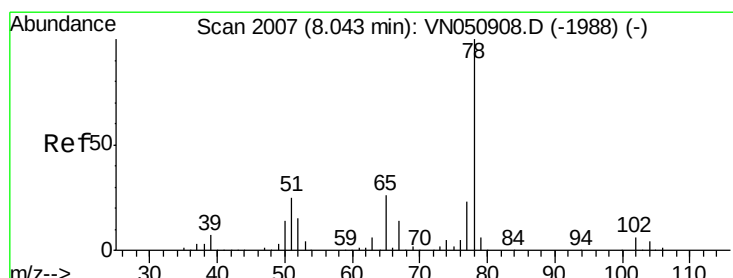
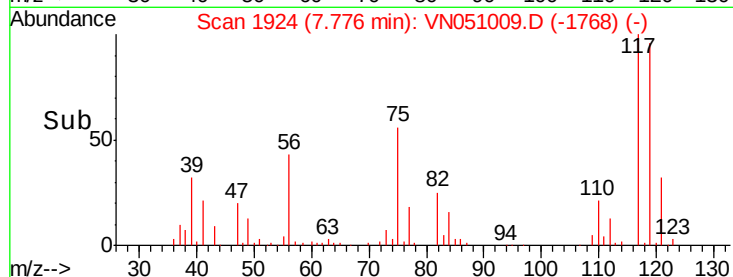
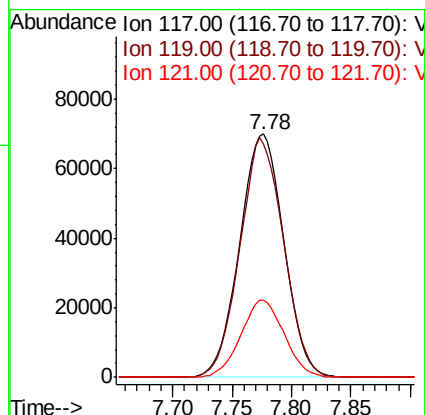
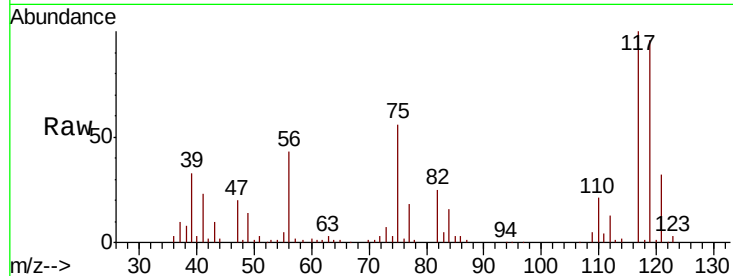
#33
Carbon Tetrachloride
Concen: 18.96 ug/l
RT: 7.78 min Scan# 1924
Delta R.T. 0.00 min
Lab File: VN051009.D
Acq: 4 Sep 2018 11:00

Instrument :
MSVOA_N
ClientSampleId :
VN0904WBS02

Tot Ion	Ratio	Lower	Upper
117	100		
119	96.1	73.5	110.3
121	31.8	24.6	37.0

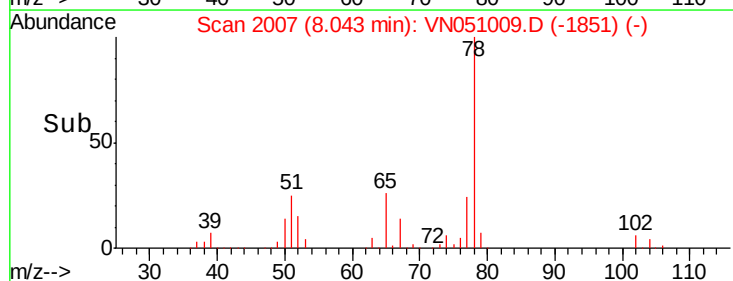
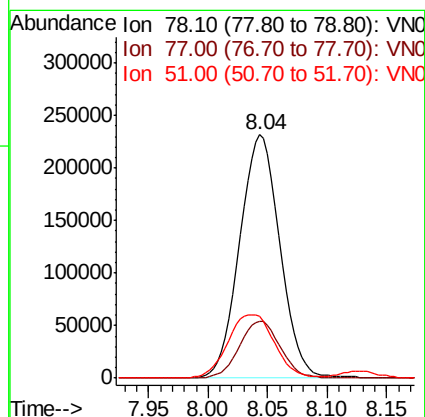
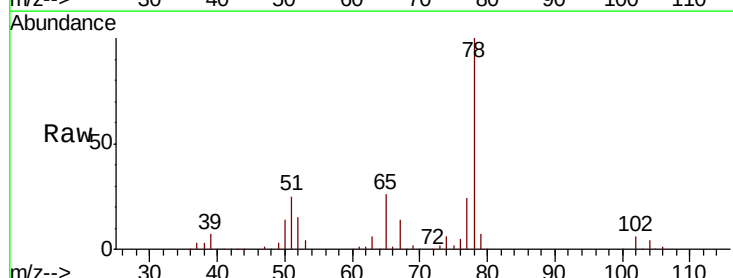
Manual Integrations
APPROVED

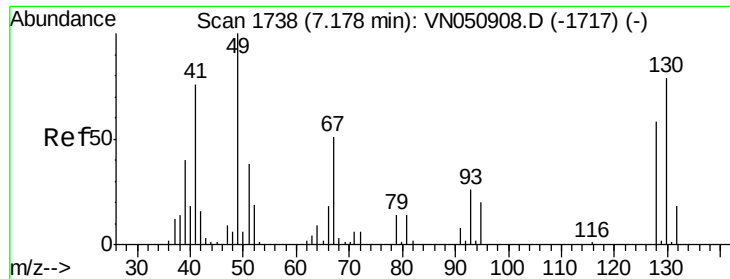
MMDadoda
9/5/2018 12:00:17 PM



#34
Benzene
Concen: 18.91 ug/l
RT: 8.04 min Scan# 2007
Delta R.T. 0.00 min
Lab File: VN051009.D
Acq: 4 Sep 2018 11:00

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.6	28.0
51	25.0	20.0	30.0





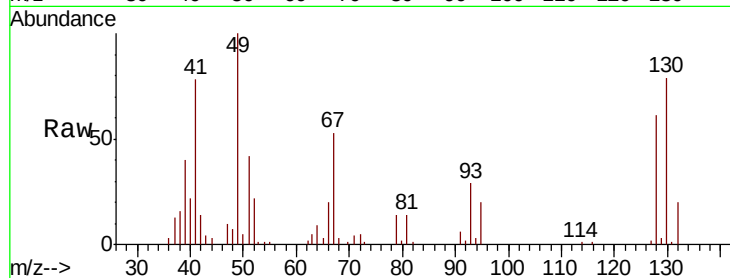
#35
Methacrylonitrile
Concen: 15.87 ug/l
RT: 7.18 min Scan# 1737
Delta R.T. -0.00 min
Lab File: VN051009.D
Acq: 4 Sep 2018 11:00

Instrument :
MSVOA_N
ClientSampleId :
VN0904WBS02

Tot Ion	Ratio	Lower	Upper
41	100		
39	51.4	26.2	78.5
67	68.5	33.9	101.6
52	27.0	12.5	37.5

Manual Integrations
APPROVED

MMDadoda
9/5/2018 12:00:17 PM



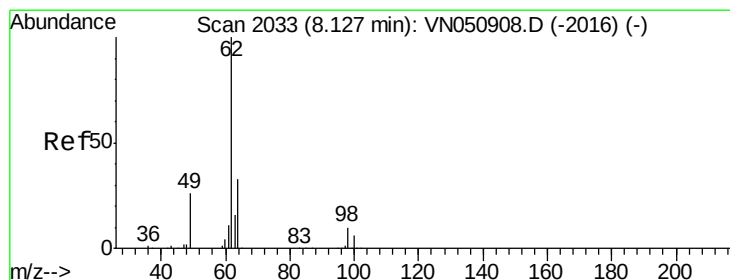
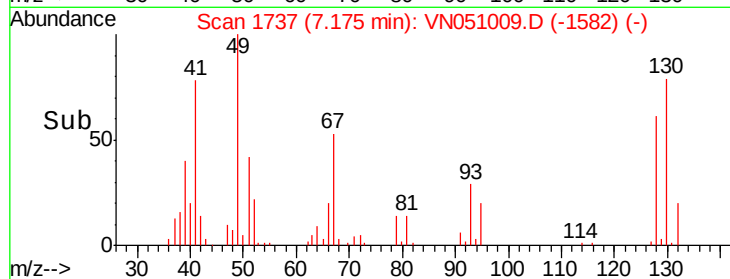
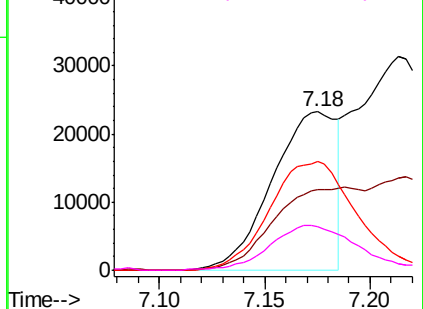
Abundance

Ion 41.00 (40.70 to 41.70): VNC

Ion 39.00 (38.70 to 39.70): VNC

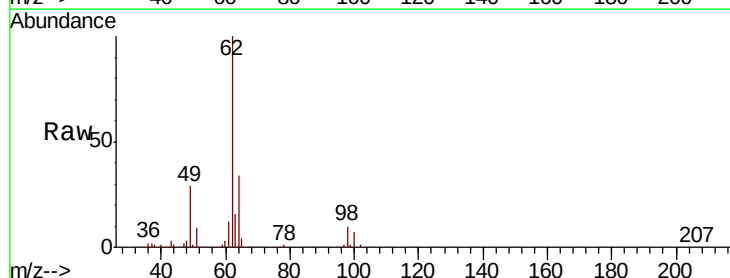
Ion 67.00 (66.70 to 67.70): VNC

Ion 52.00 (51.70 to 52.70): VNC



#36
1,2-Dichloroethane
Concen: 18.72 ug/l
RT: 8.13 min Scan# 2033
Delta R.T. 0.00 min
Lab File: VN051009.D
Acq: 4 Sep 2018 11:00

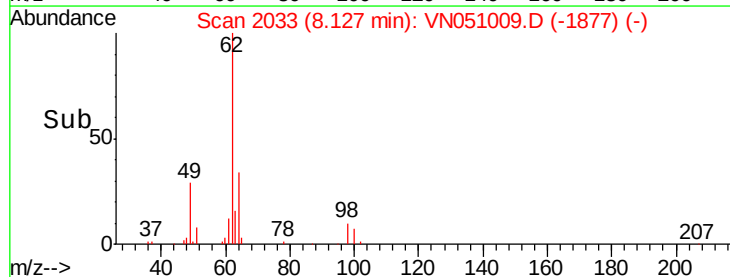
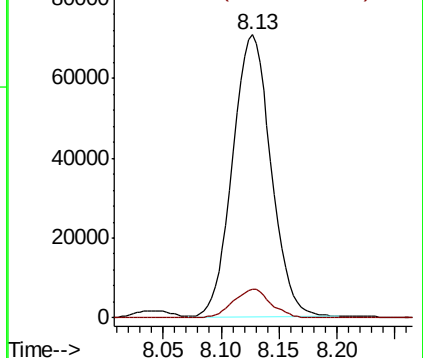
Tgt Ion	Ratio	Lower	Upper
62	100		
98	10.0	8.0	12.0

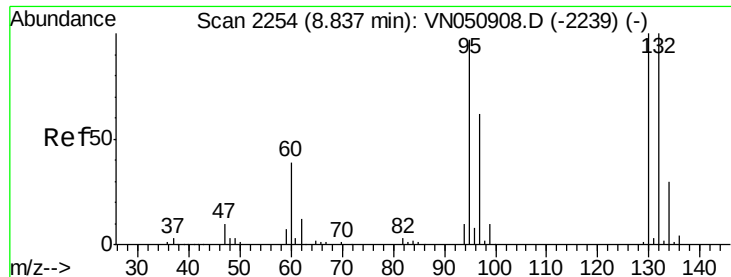


Abundance

Ion 62.00 (61.70 to 62.70): VNC

Ion 98.00 (97.70 to 98.70): VNC





#37

Trichloroethene

Concen: 18.86 ug/l

RT: 8.84 min Scan# 2254

Delta R.T. 0.00 min

Lab File: VN051009.D

Acq: 4 Sep 2018 11:00

Instrument :

MSVOA_N

ClientSampleId :

VN0904WBS02

Tot Ion:130 Resp: 141776

Ion Ratio Lower Upper

130 100

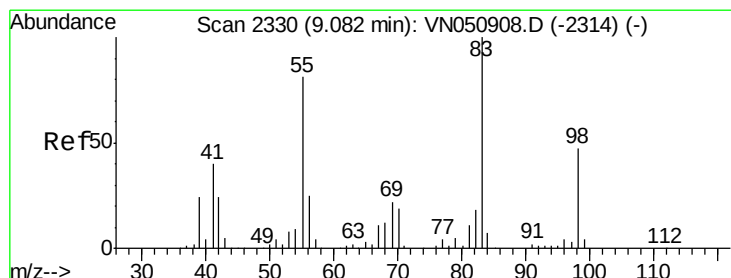
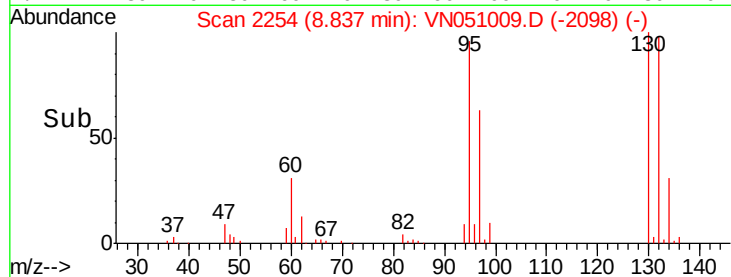
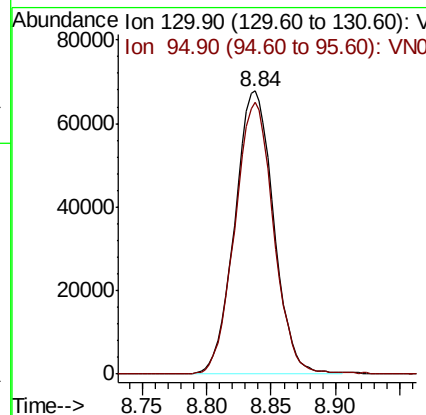
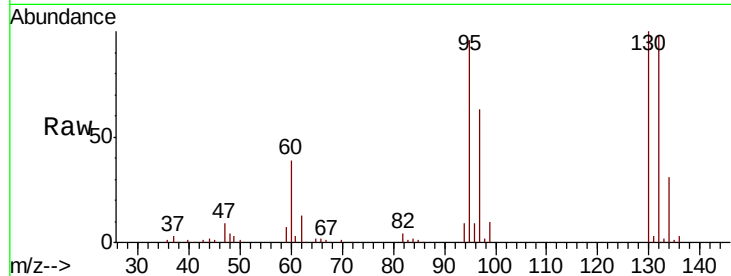
95 95.9 77.4 116.0

Manual Integrations

APPROVED

MMDadoda

9/5/2018 12:00:17 PM



#38

Methylcyclohexane

Concen: 18.41 ug/l

RT: 9.08 min Scan# 2330

Delta R.T. 0.00 min

Lab File: VN051009.D

Acq: 4 Sep 2018 11:00

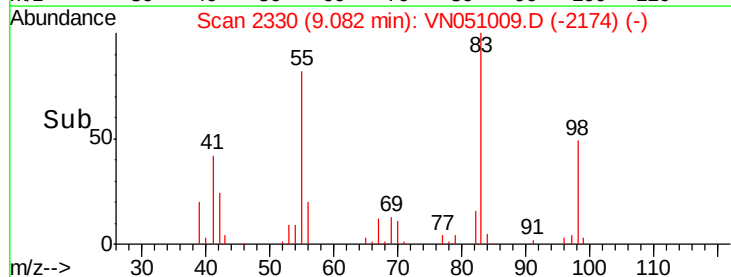
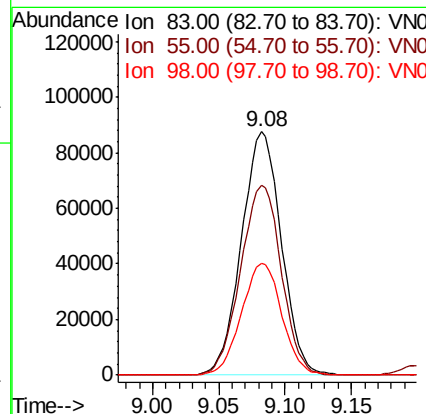
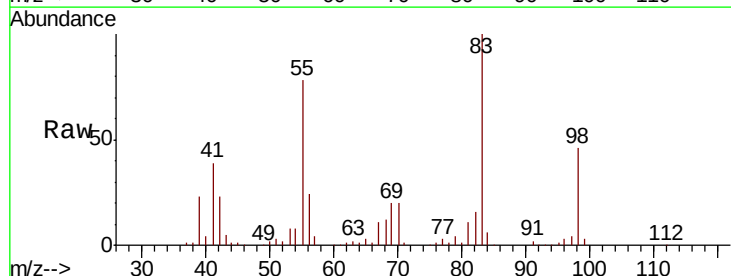
Tgt Ion: 83 Resp: 183818

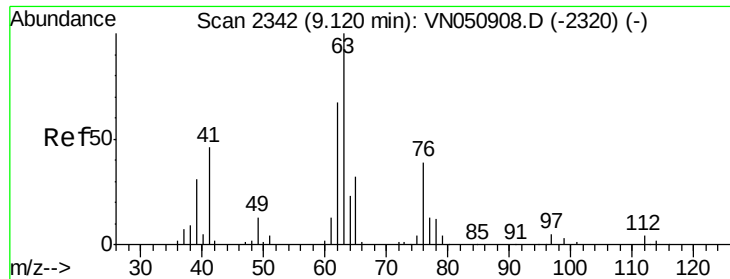
Ion Ratio Lower Upper

83 100

55 79.5 38.9 116.7

98 46.5 22.9 68.7





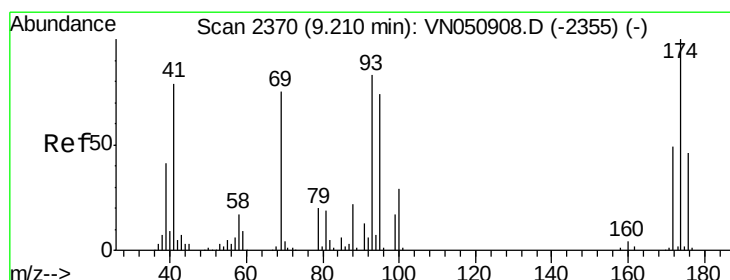
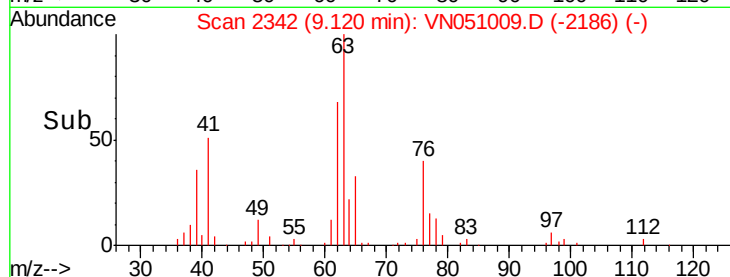
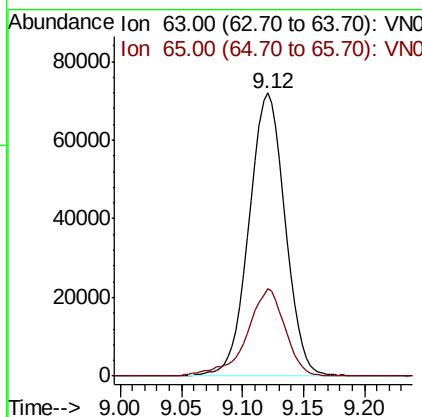
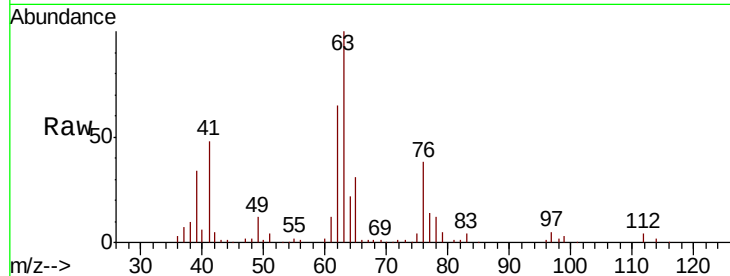
#39
 1,2-Dichloropropane
 Concen: 19.62 ug/l
 RT: 9.12 min Scan# 2342
 Delta R.T. 0.00 min
 Lab File: VN051009.D
 Acq: 4 Sep 2018 11:00

Instrument :
 MSVOA_N
 ClientSampled :
 VN0904WBS02

Tot Ion	63	Resp	147400
Ion Ratio	Lower	Upper	
63	100		
65	30.7	25.6	38.4

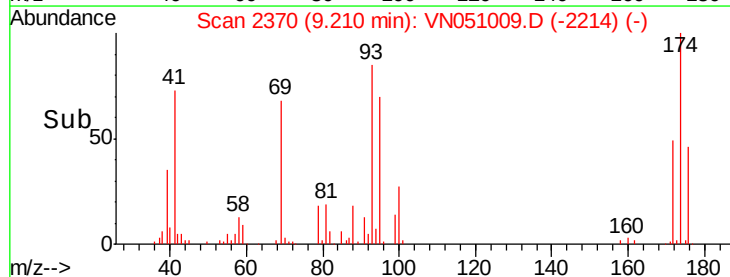
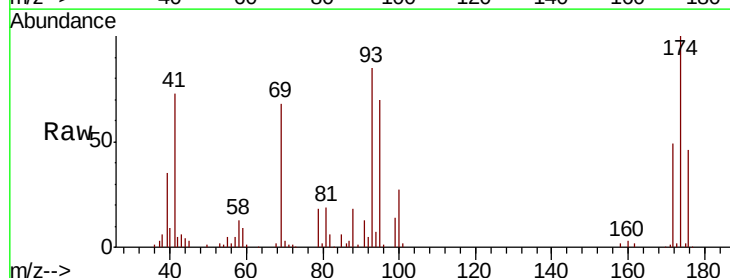
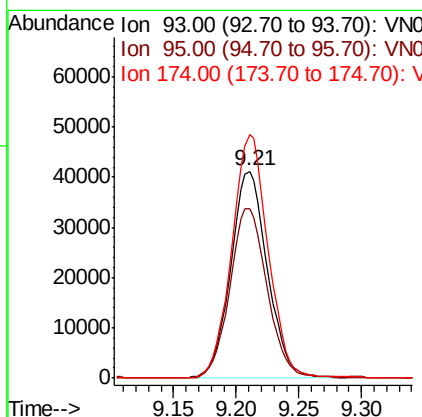
Manual Integrations
 APPROVED

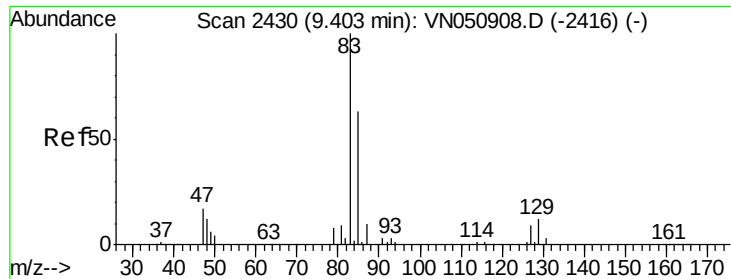
MMDadoda
 9/5/2018 12:00:17 PM



#40
 Dibromomethane
 Concen: 18.55 ug/l
 RT: 9.21 min Scan# 2370
 Delta R.T. 0.00 min
 Lab File: VN051009.D
 Acq: 4 Sep 2018 11:00

Tgt Ion	93	Resp	83936
Ion Ratio	Lower	Upper	
93	100		
95	82.8	0.0	173.4
174	115.8	0.0	234.8





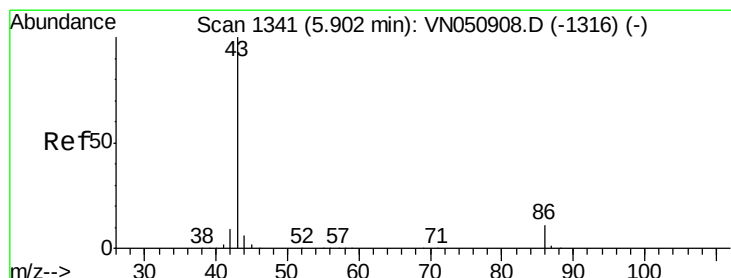
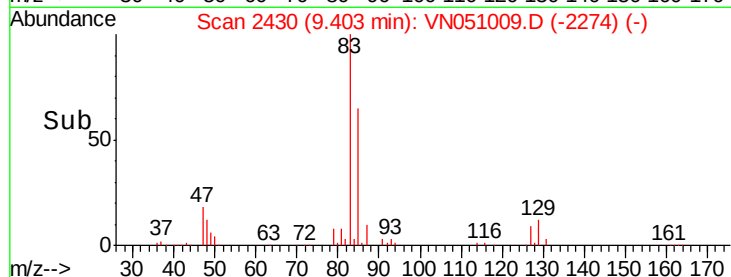
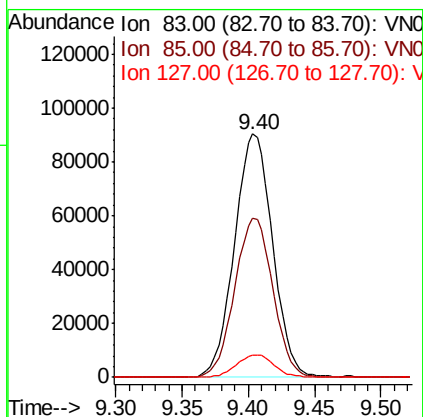
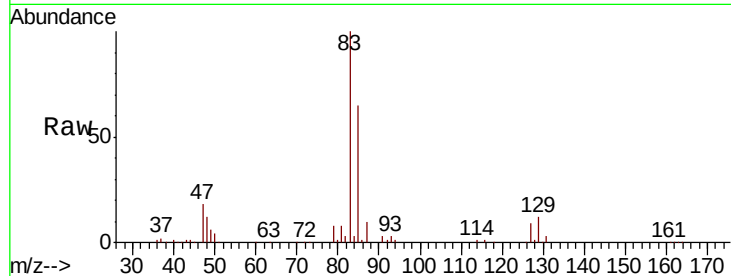
#41
 Bromodichloromethane
 Concen: 18.93 ug/l
 RT: 9.40 min Scan# 2430
 Delta R.T. 0.00 min
 Lab File: VN051009.D
 Acq: 4 Sep 2018 11:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0904WBS02

Tot Ion	83	Resp	180544
Ion Ratio	100	Lower	Upper
83	100		
85	65.3	50.6	76.0
127	9.0	7.1	10.7

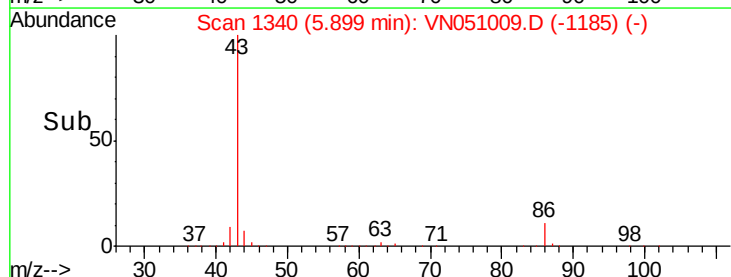
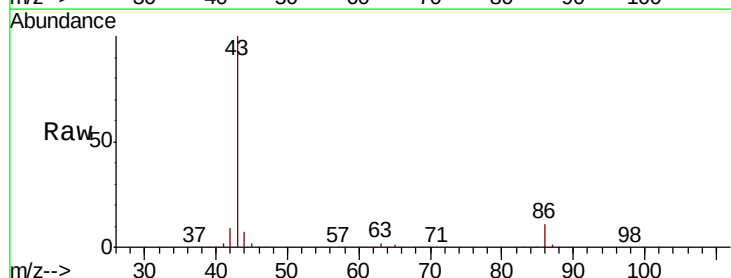
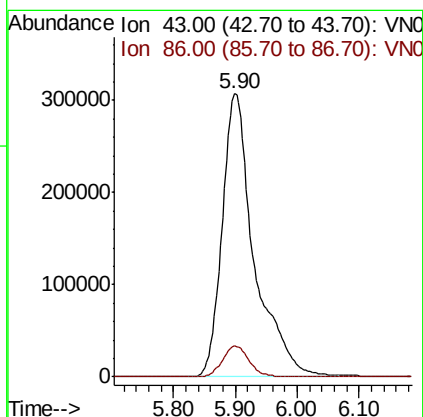
Manual Integrations
 APPROVED

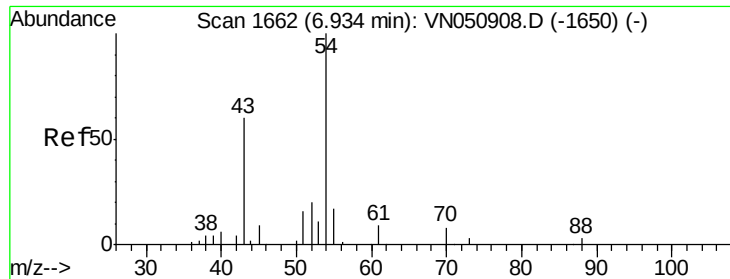
MMDadoda
 9/5/2018 12:00:17 PM



#42
 Vinyl Acetate
 Concen: 84.13 ug/l
 RT: 5.90 min Scan# 1340
 Delta R.T. -0.00 min
 Lab File: VN051009.D
 Acq: 4 Sep 2018 11:00

Tgt Ion	43	Resp	1108363
Ion Ratio	100	Lower	Upper
43	100		
86	9.1	7.2	10.8





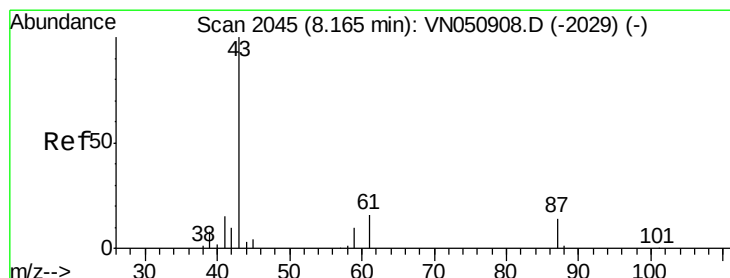
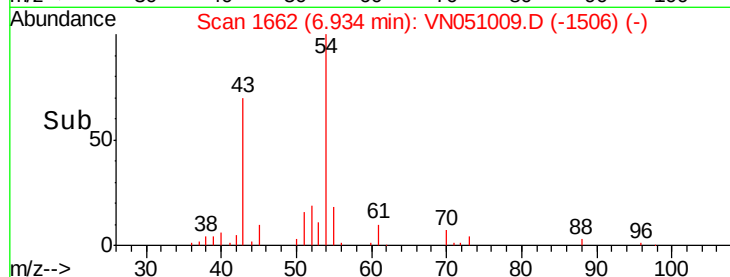
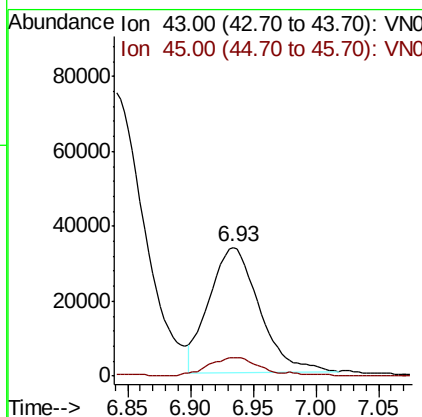
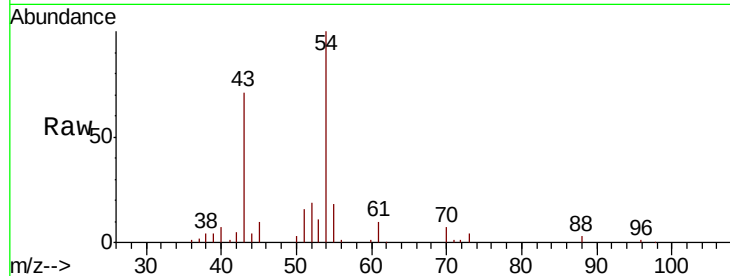
#43
Ethyl Acetate
Concen: 15.92 ug/l
RT: 6.93 min Scan# 1662
Delta R.T. 0.00 min
Lab File: VN051009.D
Acq: 4 Sep 2018 11:00

Instrument :
MSVOA_N
ClientSampled :
VN0904WBS02

Tot Ion: 43 Resp: 93297
Ion Ratio Lower Upper
43 100
45 14.8 10.2 15.2

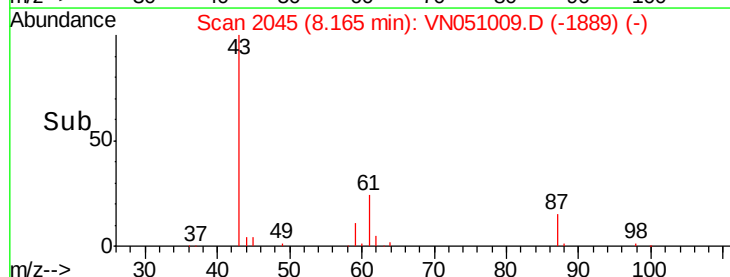
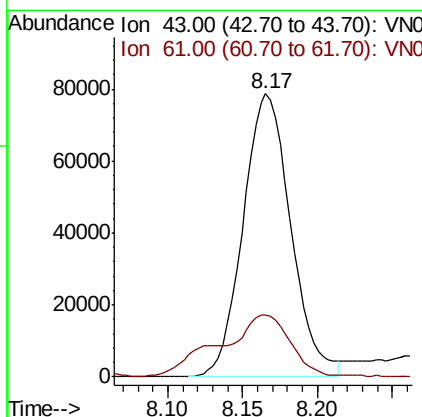
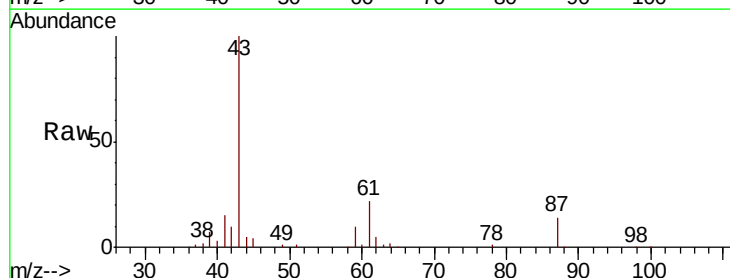
Manual Integrations
APPROVED

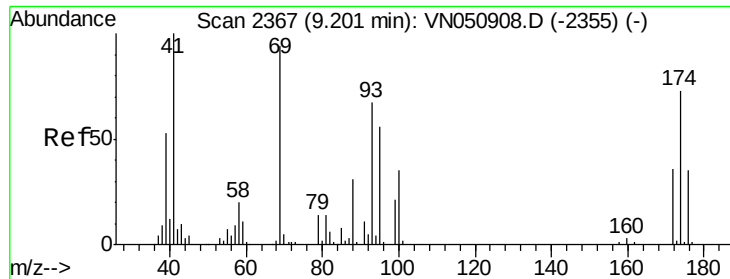
MMDadoda
9/5/2018 12:00:17 PM



#44
Isopropyl Acetate
Concen: 16.78 ug/l
RT: 8.17 min Scan# 2045
Delta R.T. 0.00 min
Lab File: VN051009.D
Acq: 4 Sep 2018 11:00

Tgt Ion: 43 Resp: 173474
Ion Ratio Lower Upper
43 100
61 20.7 16.3 24.5





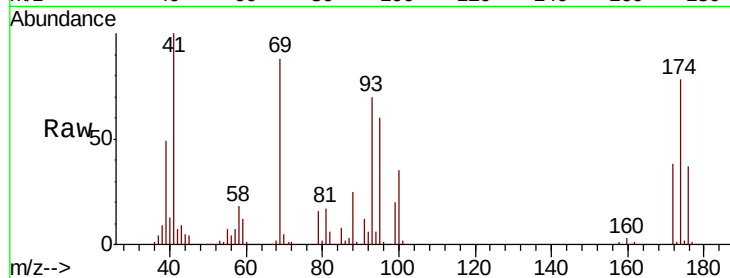
#45
 1,4-Dioxane
 Concen: 310.59 ug/l
 RT: 9.20 min Scan# 2367
 Delta R.T. 0.00 min
 Lab File: VN051009.D
 Acq: 4 Sep 2018 11:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0904WBS02

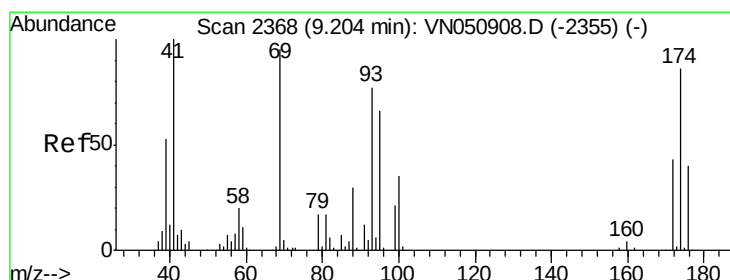
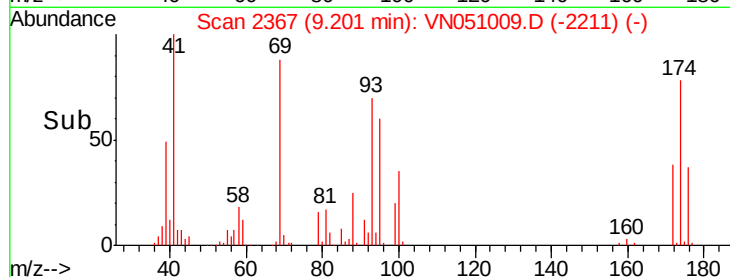
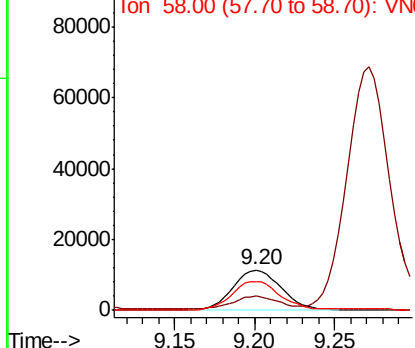
Tot Ion	Ratio	Lower	Upper
88	100		
43	29.1	23.5	35.3
58	70.8	55.2	82.8

Manual Integrations
 APPROVED

MMDadoda
 9/5/2018 12:00:17 PM

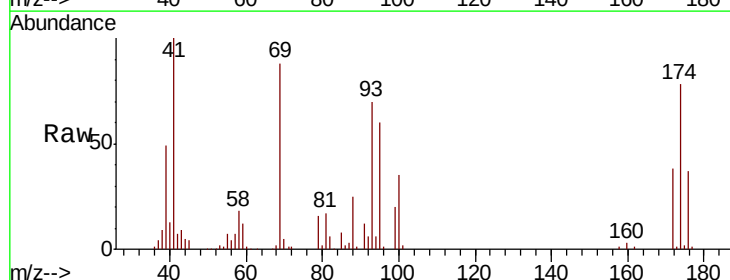


Abundance Ion 88.00 (87.70 to 88.70): VN0
 Ion 43.00 (42.70 to 43.70): VN0
 Ion 58.00 (57.70 to 58.70): VN0

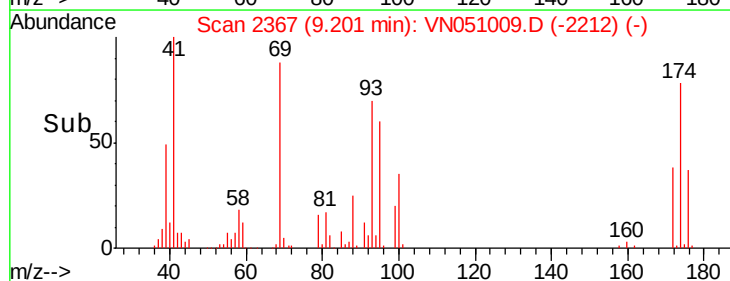
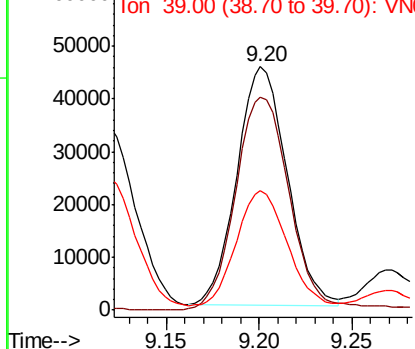


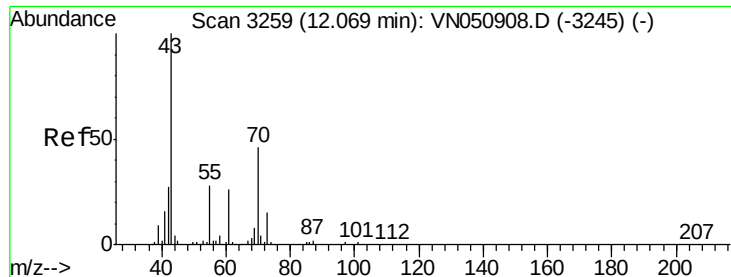
#46
 Methyl methacrylate
 Concen: 16.48 ug/l
 RT: 9.20 min Scan# 2367
 Delta R.T. -0.00 min
 Lab File: VN051009.D
 Acq: 4 Sep 2018 11:00

Tgt Ion	Ratio	Lower	Upper
41	100		
69	89.0	47.4	142.2
39	48.3	26.6	79.7



Abundance Ion 41.00 (40.70 to 41.70): VN0
 Ion 69.00 (68.70 to 69.70): VN0
 Ion 39.00 (38.70 to 39.70): VN0





#47

n-amyl Acetate

Concen: 14.75 ug/l

RT: 12.07 min Scan# 3259

Delta R.T. 0.00 min

Lab File: VN051009.D

Acq: 4 Sep 2018 11:00

Instrument :

MSVOA_N

ClientSampled :

VN0904WBS02

Tot Ion: 43 Resp: 122576

Ion Ratio Lower Upper

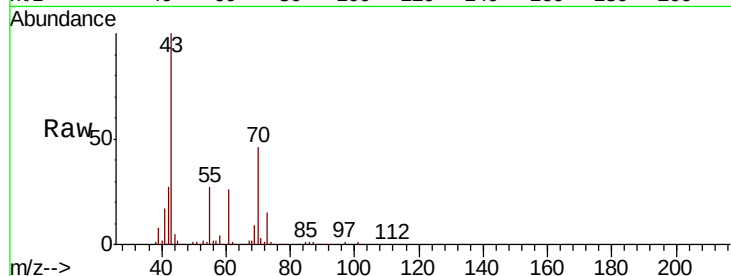
43 100

55 28.3 23.0 34.4

Manual Integrations
APPROVED

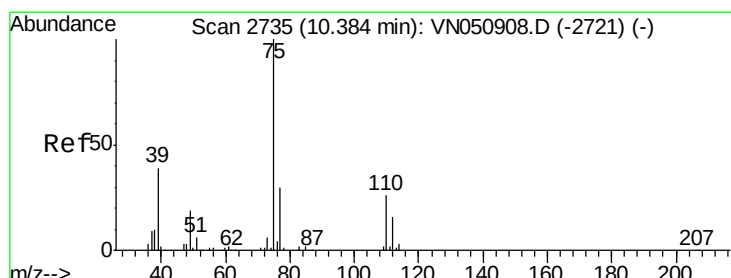
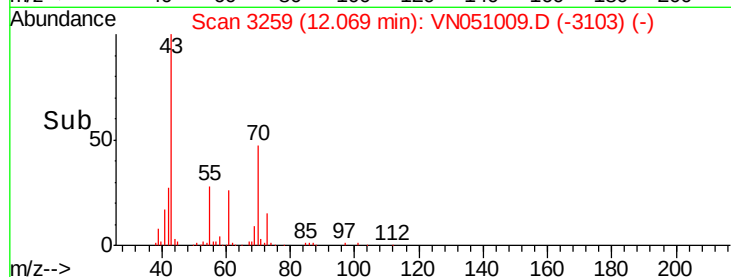
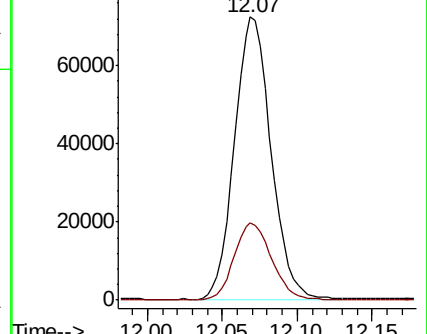
MMDadoda

9/5/2018 12:00:17 PM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#48

t-1,3-Dichloropropene

Concen: 17.97 ug/l

RT: 10.38 min Scan# 2735

Delta R.T. 0.00 min

Lab File: VN051009.D

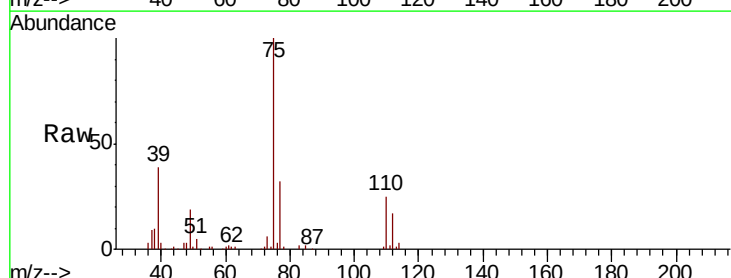
Acq: 4 Sep 2018 11:00

Tgt Ion: 75 Resp: 168027

Ion Ratio Lower Upper

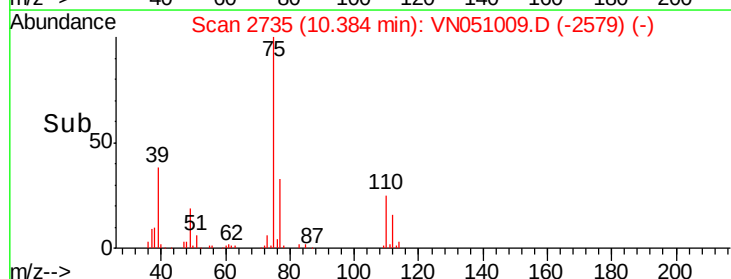
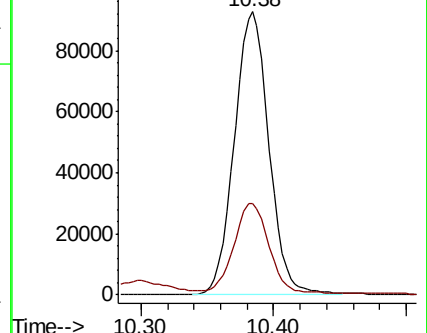
75 100

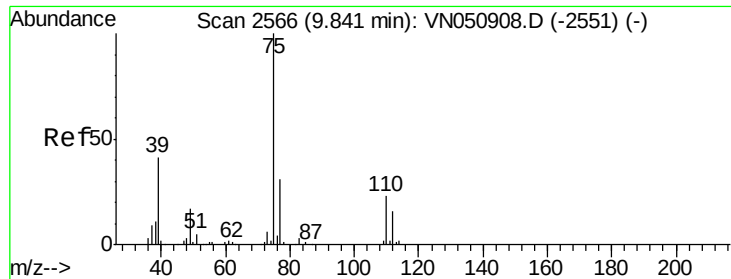
77 31.8 24.8 37.2



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 77.00 (76.70 to 77.70): VN0





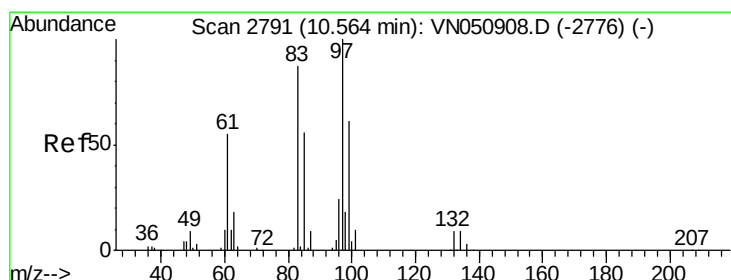
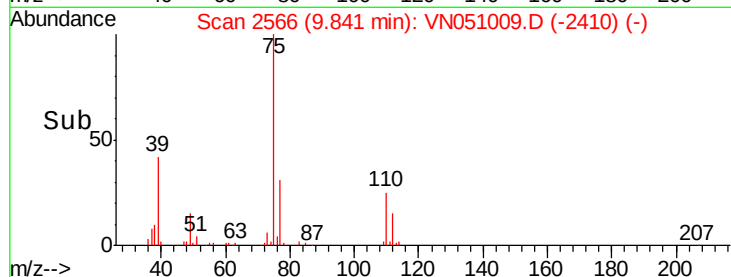
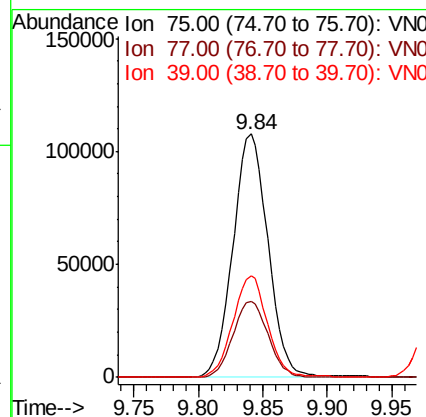
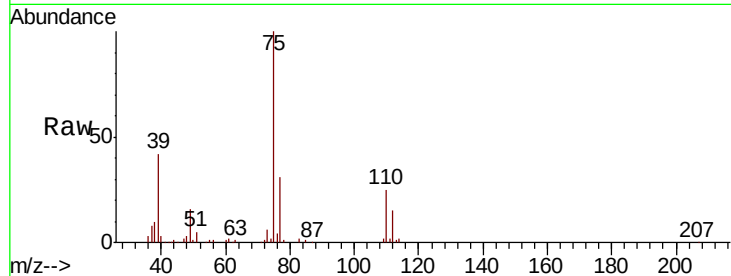
#49
 cis-1,3-Dichloropropene
 Concen: 18.92 ug/l
 RT: 9.84 min Scan# 2566
 Delta R.T. 0.00 min
 Lab File: VN051009.D
 Acq: 4 Sep 2018 11:00

Instrument :
 MSVOA_N
 ClientSampled :
 VN0904WBS02

Tot Ion	Ratio	Resp	Lower	Upper
75	100			
77	31.3	25.0	37.4	
39	41.8	32.9	49.3	

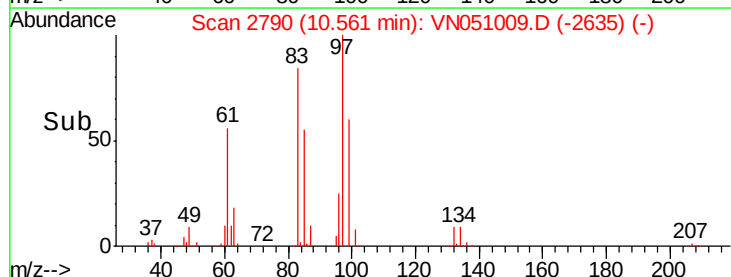
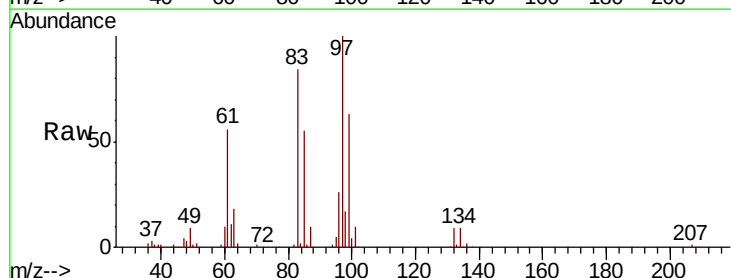
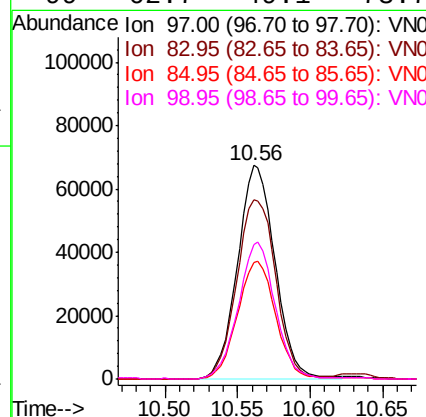
Manual Integrations
 APPROVED

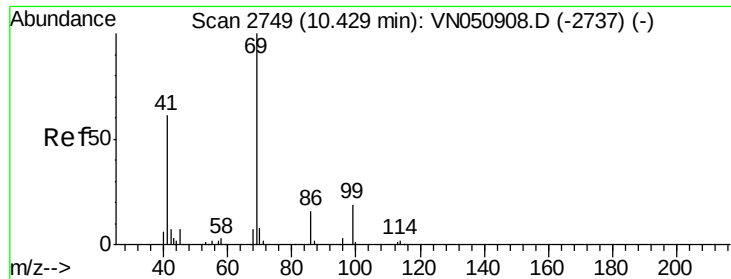
MMDadoda
 9/5/2018 12:00:17 PM



#50
 1,1,2-Trichloroethane
 Concen: 18.46 ug/l
 RT: 10.56 min Scan# 2790
 Delta R.T. -0.00 min
 Lab File: VN051009.D
 Acq: 4 Sep 2018 11:00

Tgt Ion	Ratio	Resp	Lower	Upper
97	100			
83	84.2	69.8	104.6	
85	54.7	45.0	67.6	
99	62.7	49.1	73.7	





#51

Ethyl methacrylate

Concen: 16.38 ug/l

RT: 10.43 min Scan# 2749

Delta R.T. 0.00 min

Lab File: VN051009.D

Acq: 4 Sep 2018 11:00

Instrument :

MSVOA_N

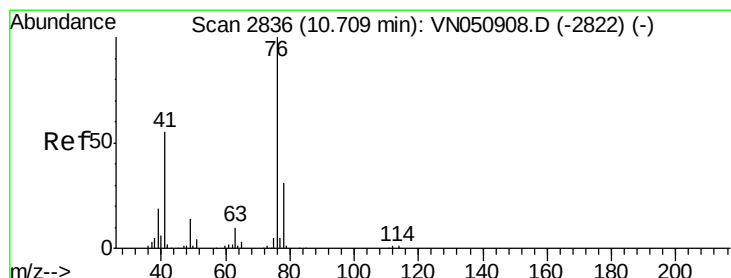
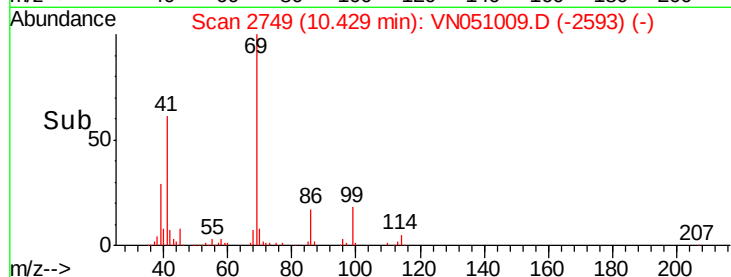
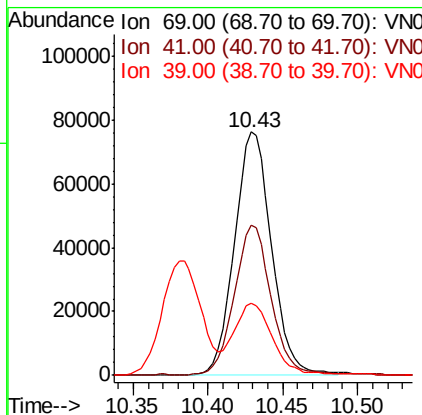
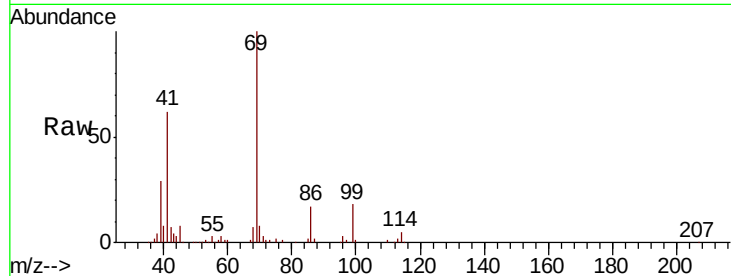
ClientSampled :

VN0904WBS02

Tot Ion:	69	Resp:	131772
Ion	Ratio	Lower	Upper
69	100		
41	61.2	30.5	91.5
39	28.6	15.3	45.8

Manual Integrations
APPROVED

MMDadoda
9/5/2018 12:00:17 PM



#52

1,3-Dichloropropane

Concen: 18.21 ug/l

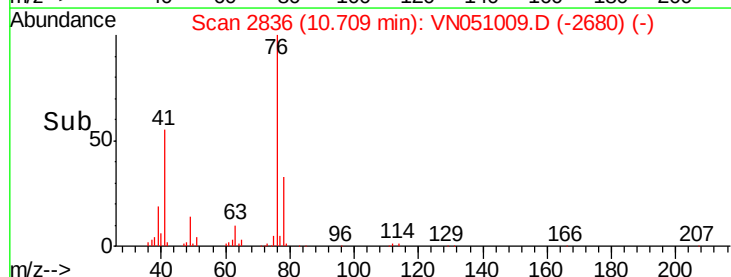
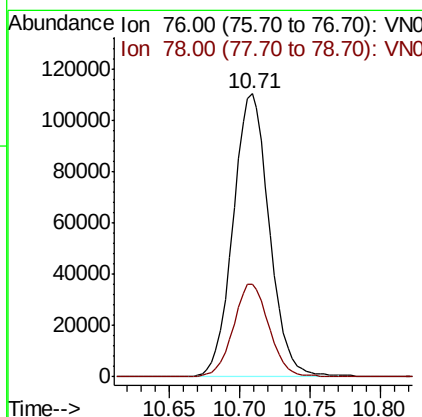
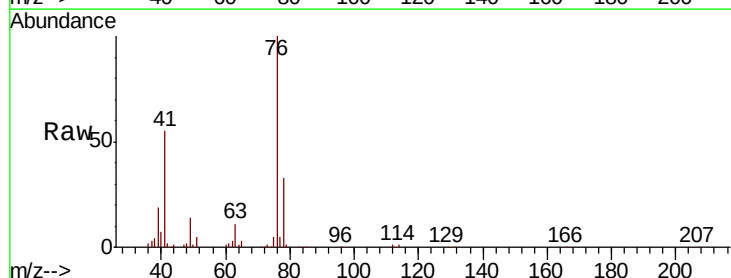
RT: 10.71 min Scan# 2836

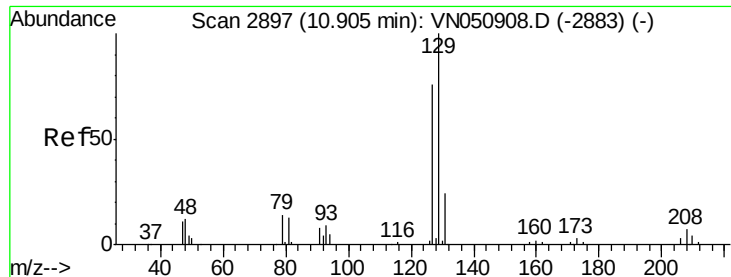
Delta R.T. 0.00 min

Lab File: VN051009.D

Acq: 4 Sep 2018 11:00

Tgt Ion:	76	Resp:	198277
Ion	Ratio	Lower	Upper
76	100		
78	32.4	0.0	63.4





#53

Dibromochloromethane

Concen: 18.22 ug/l

RT: 10.90 min Scan# 2896

Delta R.T. -0.00 min

Lab File: VN051009.D

Acq: 4 Sep 2018 11:00

Instrument :

MSVOA_N

ClientSampled :

VN0904WBS02

Tot Ion:129 Resp: 136206

Ion Ratio Lower Upper

129 100

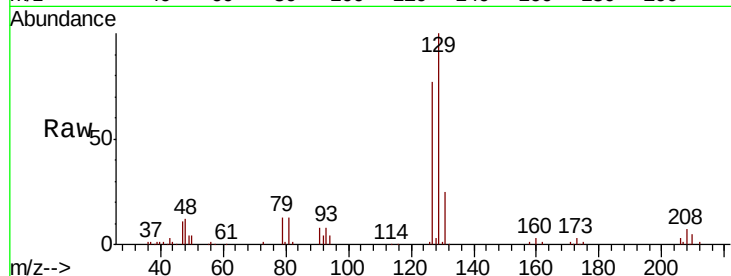
127 76.9 39.0 116.9

Manual Integrations

APPROVED

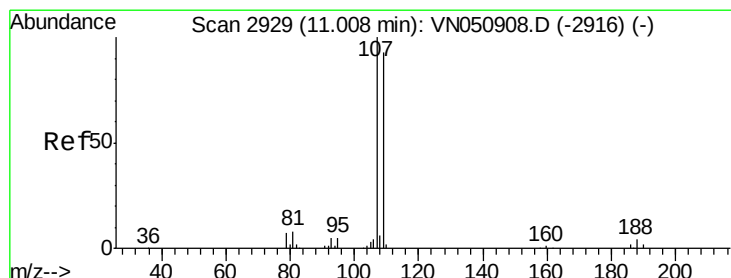
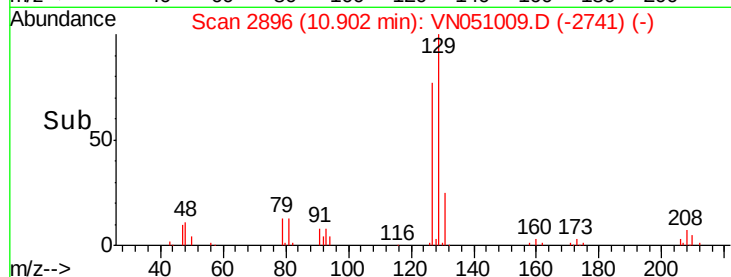
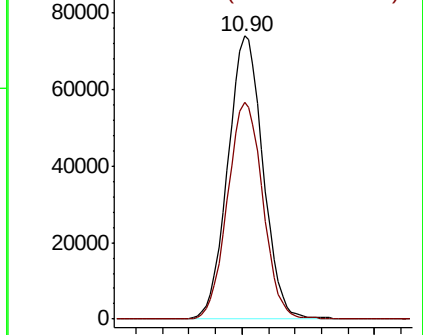
MMDadoda

9/5/2018 12:00:17 PM



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#54

1,2-Dibromoethane

Concen: 17.63 ug/l

RT: 11.01 min Scan# 2929

Delta R.T. 0.00 min

Lab File: VN051009.D

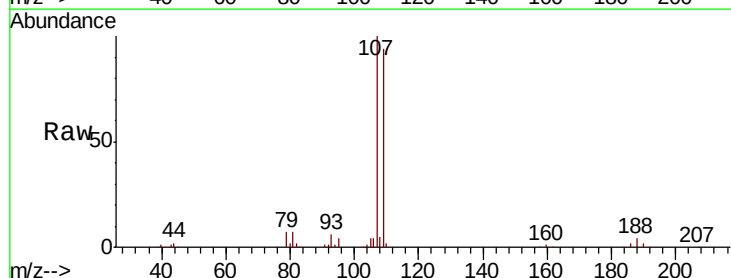
Acq: 4 Sep 2018 11:00

Tgt Ion:107 Resp: 114602

Ion Ratio Lower Upper

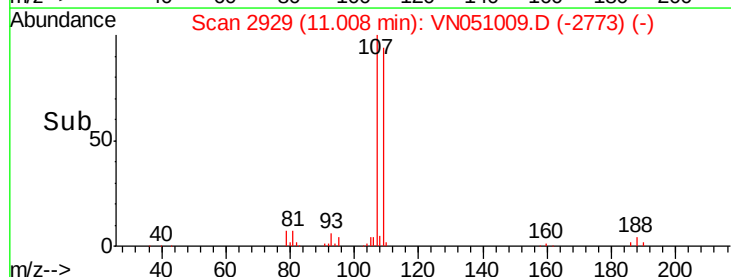
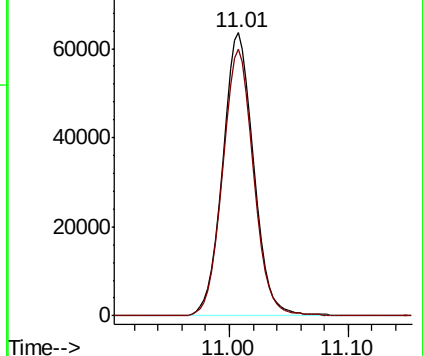
107 100

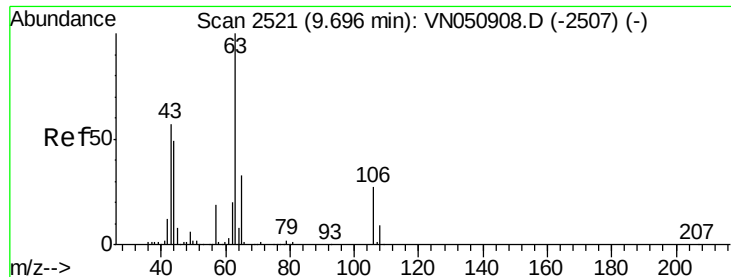
109 94.0 74.4 111.6



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





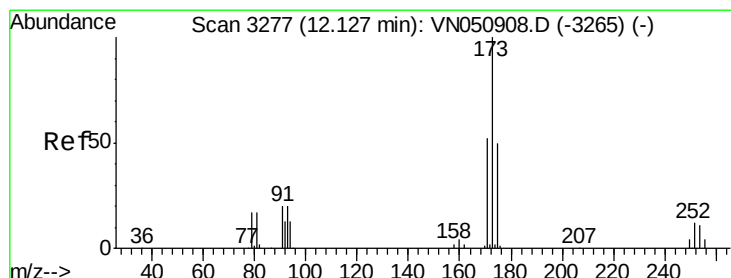
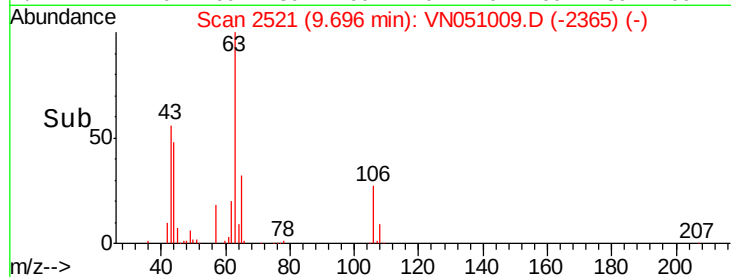
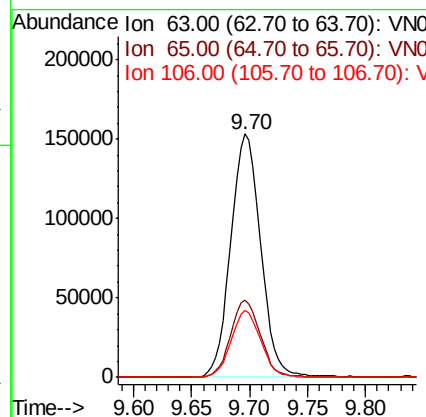
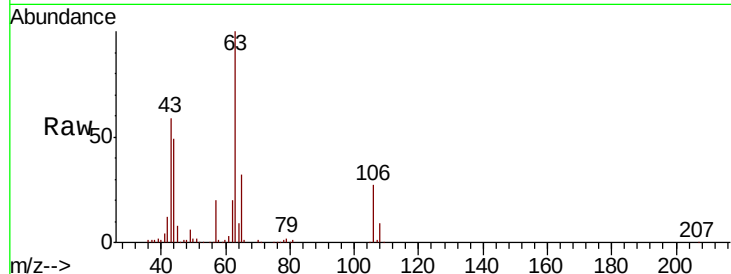
#55
2-Chloroethyl vinyl ether
Concen: 81.76 ug/l
RT: 9.70 min Scan# 2521
Delta R.T. 0.00 min
Lab File: VN051009.D
Acq: 4 Sep 2018 11:00

Instrument :
MSVOA_N
ClientSampleId :
VN0904WBS02

Tot Ion	Ratio	Lower	Upper
63	100		
65	31.5	25.4	38.2
106	27.1	22.0	33.0

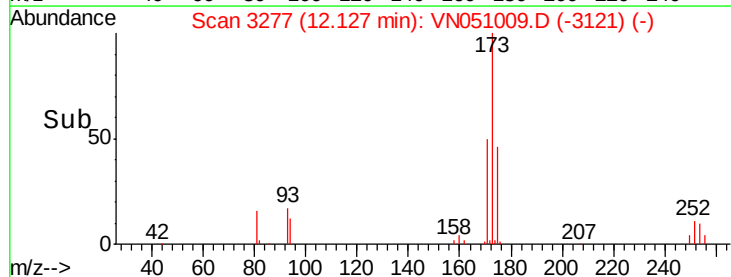
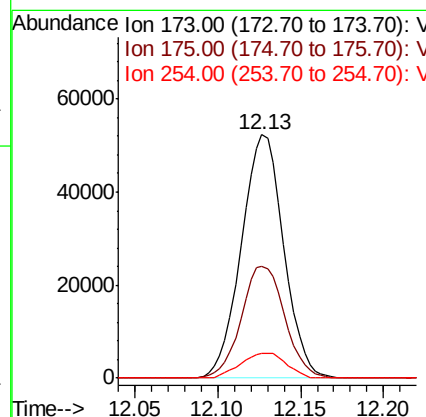
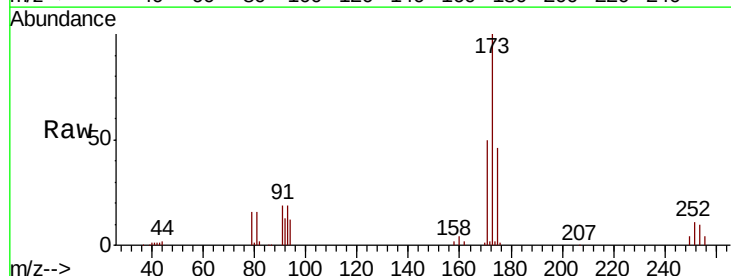
Manual Integrations
APPROVED

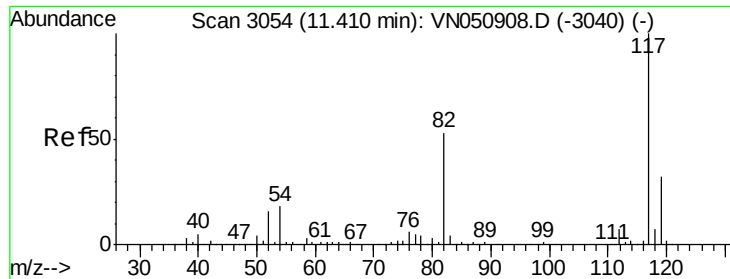
MMDadoda
9/5/2018 12:00:17 PM



#56
Bromoform
Concen: 17.43 ug/l
RT: 12.13 min Scan# 3277
Delta R.T. 0.00 min
Lab File: VN051009.D
Acq: 4 Sep 2018 11:00

Tgt Ion	Ratio	Lower	Upper
173	100		
175	47.3	39.2	58.8
254	11.0	9.0	13.6





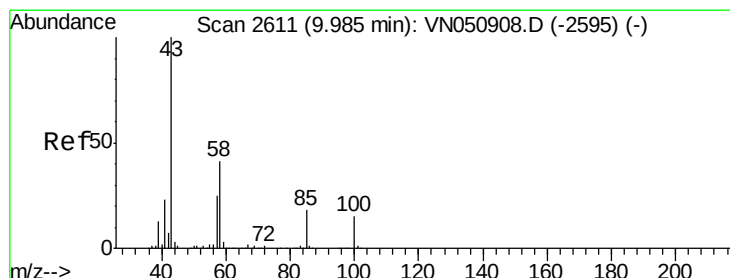
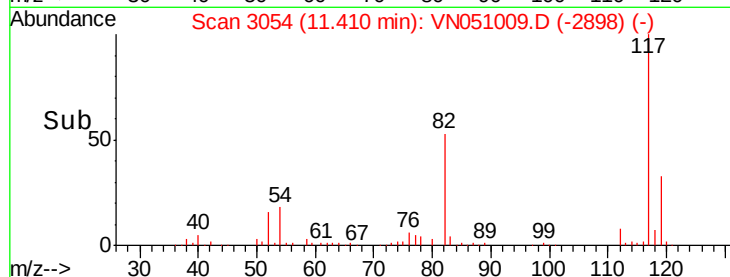
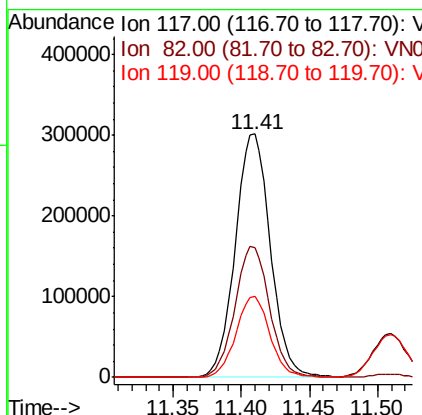
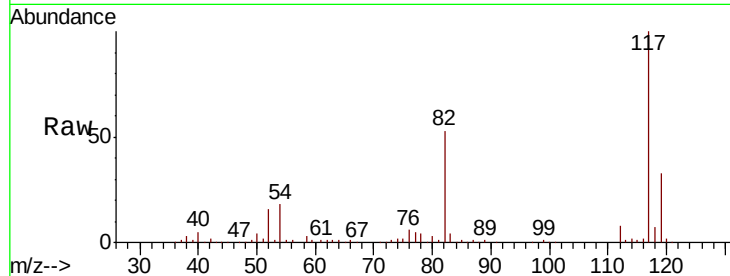
#57
Chlorobenzene-d5
Concen: 30.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN051009.D
Acq: 4 Sep 2018 11:00

Instrument :
MSVOA_N
ClientSampled :
VN0904WBS02

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.2	42.6	64.0
119	32.2	25.7	38.5

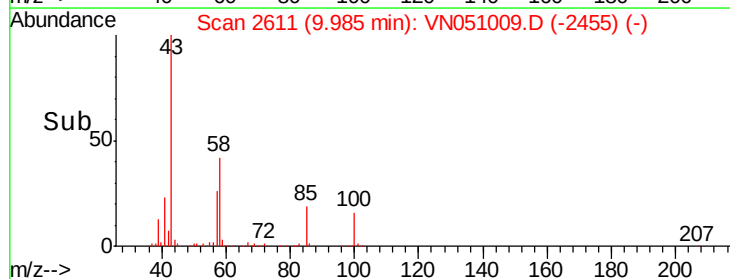
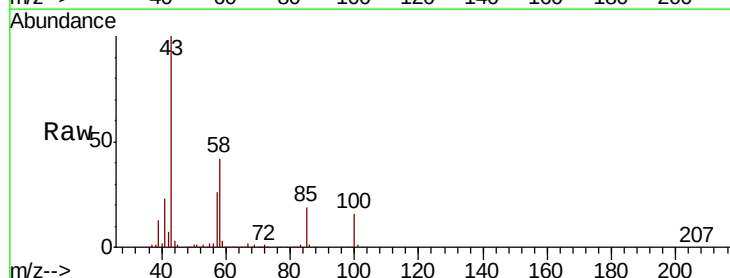
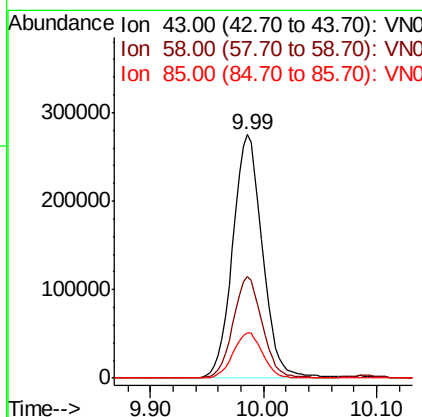
Manual Integrations
APPROVED

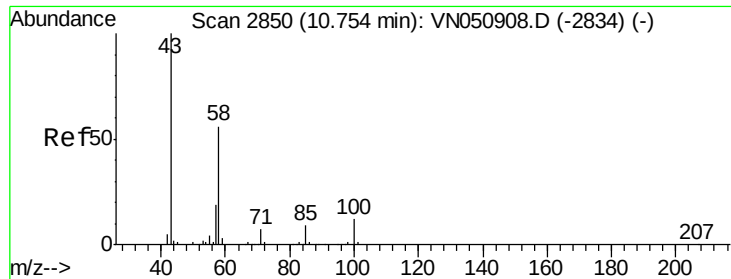
MMDadoda
9/5/2018 12:00:17 PM



#58
4-Methyl-2-Pentanone
Concen: 81.33 ug/l
RT: 9.99 min Scan# 2611
Delta R.T. 0.00 min
Lab File: VN051009.D
Acq: 4 Sep 2018 11:00

Tgt Ion	Ratio	Lower	Upper
43	100		
58	41.0	32.3	48.5
85	18.6	14.9	22.3





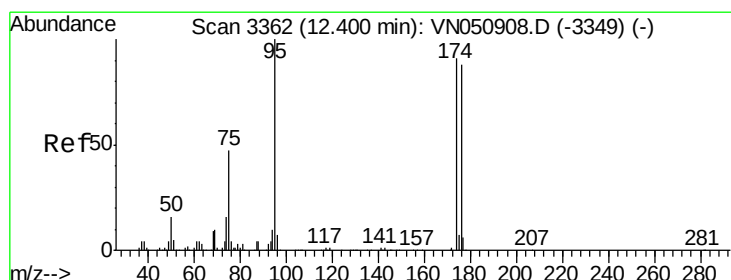
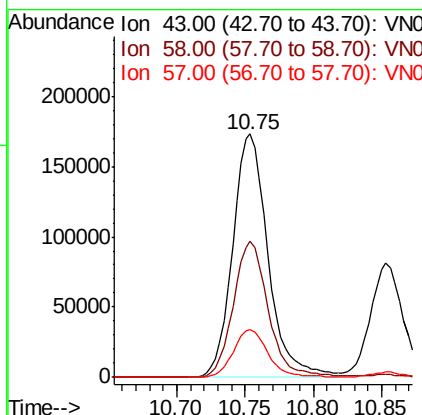
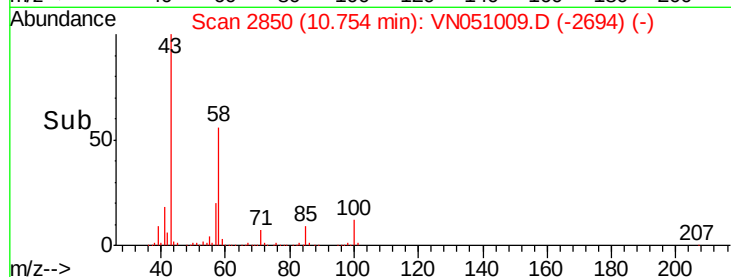
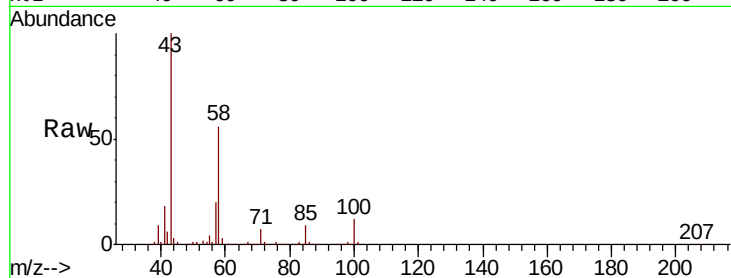
#59
2-Hexanone
Concen: 76.67 ug/l
RT: 10.75 min Scan# 2850
Delta R.T. 0.00 min
Lab File: VN051009.D
Acq: 4 Sep 2018 11:00

Instrument :
MSVOA_N
ClientSampled :
VN0904WBS02

Tot Ion	Ratio	Lower	Upper
43	100		
58	55.8	45.5	68.3
57	19.5	15.2	22.8

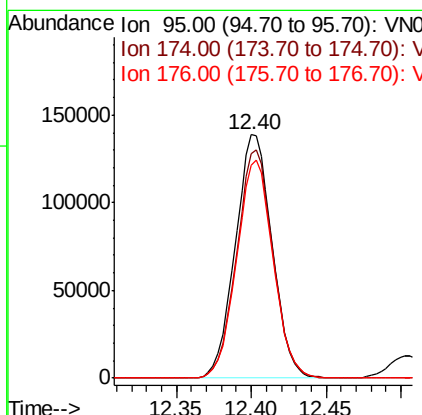
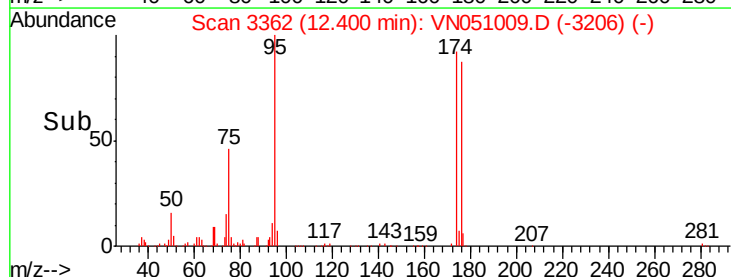
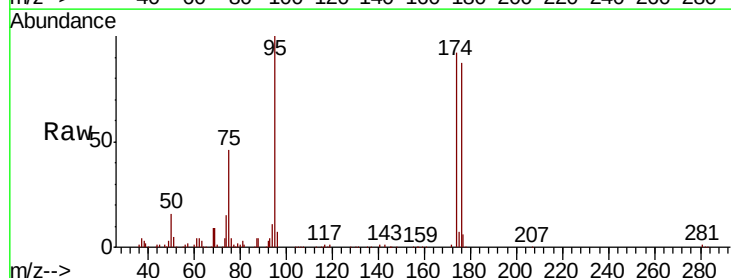
Manual Integrations
APPROVED

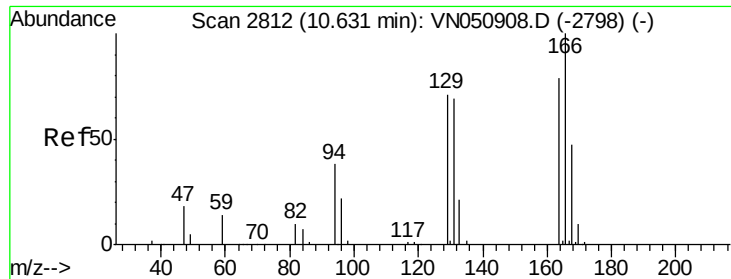
MMDadoda
9/5/2018 12:00:17 PM



#60
4-Bromofluorobenzene
Concen: 29.50 ug/l
RT: 12.40 min Scan# 3362
Delta R.T. 0.00 min
Lab File: VN051009.D
Acq: 4 Sep 2018 11:00

Tgt Ion	Ratio	Lower	Upper
95	100		
174	92.7	74.6	112.0
176	89.0	71.5	107.3





#61

Tetrachloroethene

Concen: 19.74 ug/l

RT: 10.63 min Scan# 2812

Delta R.T. 0.00 min

Lab File: VN051009.D

Acq: 4 Sep 2018 11:00

Instrument :

MSVOA_N

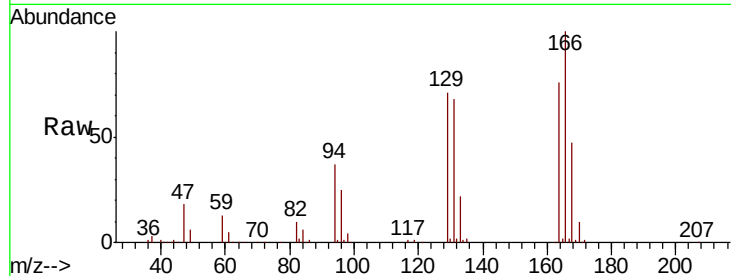
ClientSampled :

VN0904WBS02

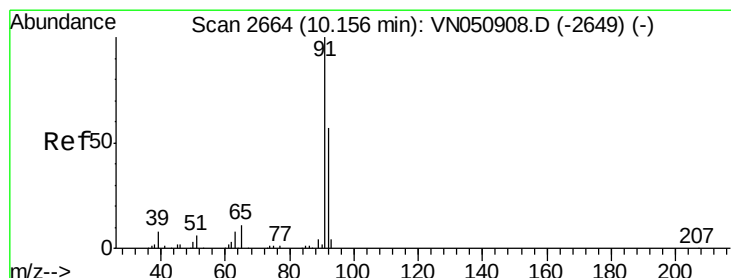
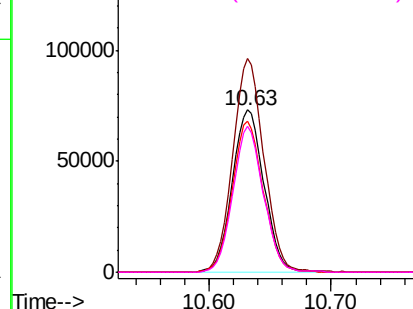
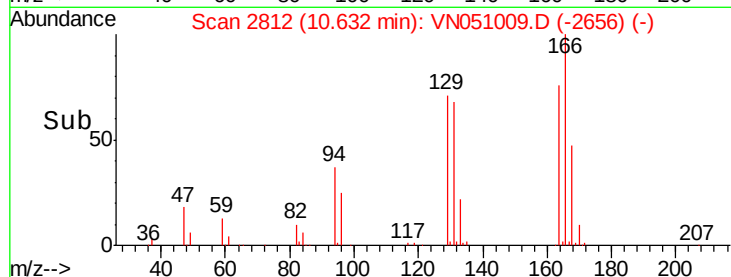
Tot Ion	164	Resp	132851
Ion Ratio	Lower	Upper	
164	100		
166	131.5	100.6	151.0
129	93.0	71.0	106.6
131	89.9	69.3	103.9

Manual Integrations
APPROVED

MMDadoda
9/5/2018 12:00:17 PM



Abundance Ion 163.85 (163.55 to 164.55): V
150000
Ion 165.80 (165.50 to 166.50): V
Ion 128.90 (128.60 to 129.60): V
Ion 130.90 (130.60 to 131.60): V



#62

Toluene

Concen: 19.31 ug/l

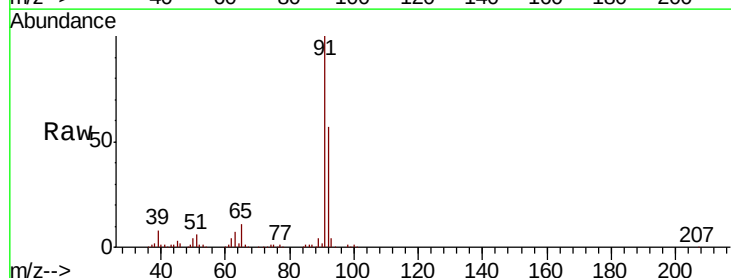
RT: 10.16 min Scan# 2664

Delta R.T. 0.00 min

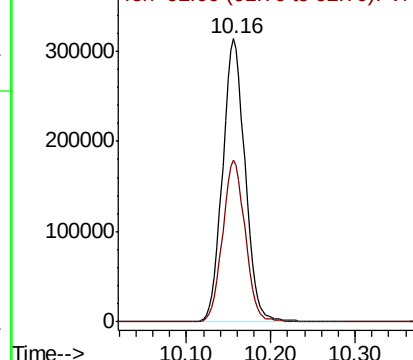
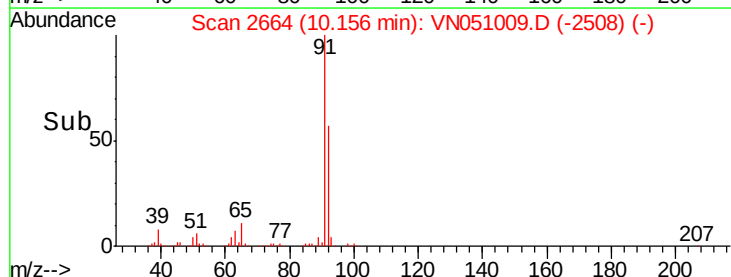
Lab File: VN051009.D

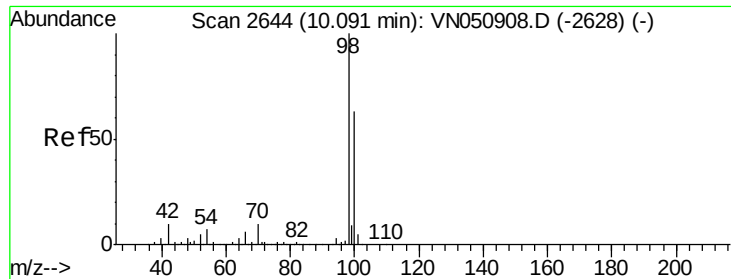
Acq: 4 Sep 2018 11:00

Tgt Ion	91	Resp	582016
Ion Ratio	Lower	Upper	
91	100		
92	57.1	45.8	68.8



Abundance Ion 91.00 (90.70 to 91.70): V
Ion 92.00 (91.70 to 92.70): V





#63

Toluene-d8

Concen: 30.92 ug/l

RT: 10.09 min Scan# 2644

Delta R.T. 0.00 min

Lab File: VN051009.D

Acq: 4 Sep 2018 11:00

Instrument :

MSVOA_N

ClientSampleId :

VN0904WBS02

Tot Ion: 98 Resp: 778818

Ion Ratio Lower Upper

98 100

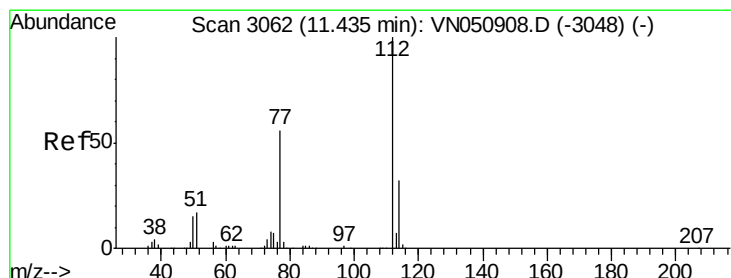
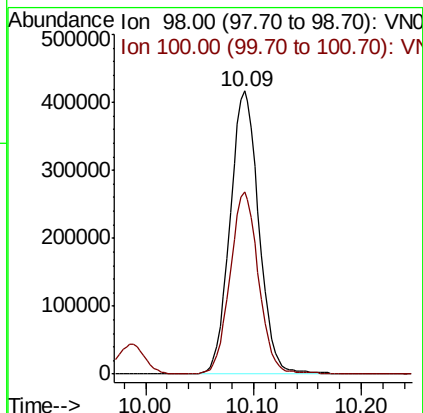
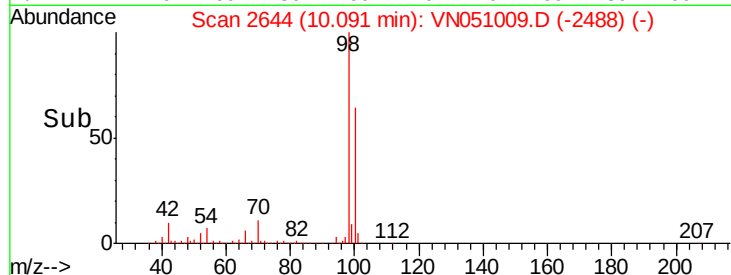
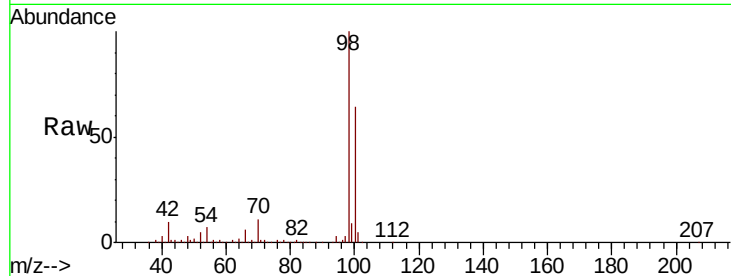
100 63.4 50.6 75.8

Manual Integrations

APPROVED

MMDadoda

9/5/2018 12:00:17 PM



#64

Chlorobenzene

Concen: 19.09 ug/l

RT: 11.43 min Scan# 3061

Delta R.T. -0.00 min

Lab File: VN051009.D

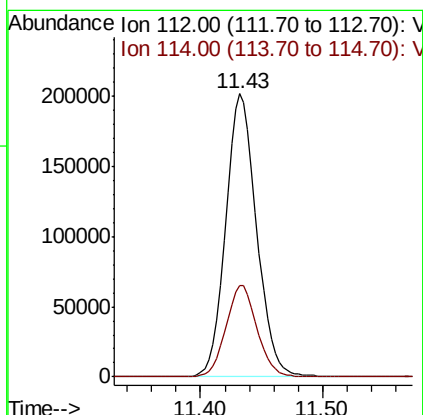
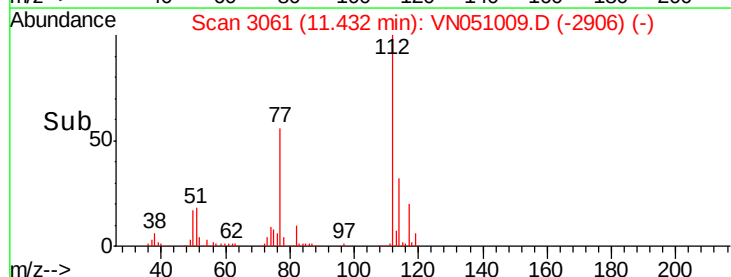
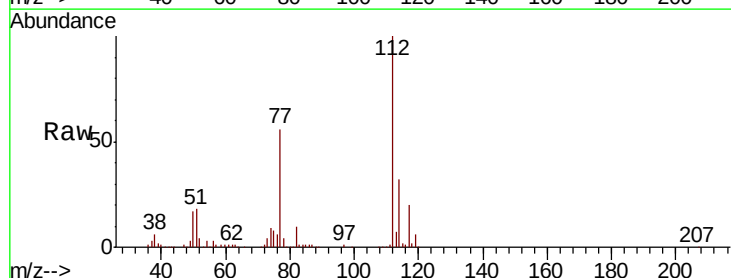
Acq: 4 Sep 2018 11:00

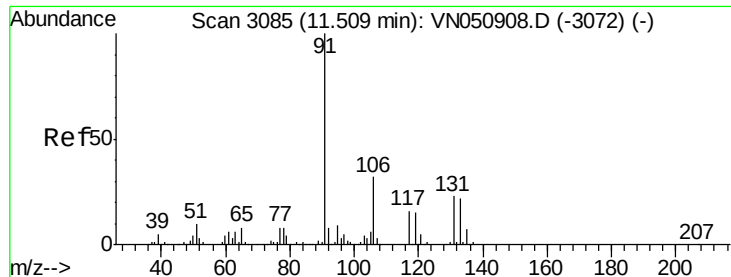
Tgt Ion: 112 Resp: 356508

Ion Ratio Lower Upper

112 100

114 32.4 25.5 38.3





#65

1,1,1,2-Tetrachloroethane

Concen: 19.43 ug/l

RT: 11.51 min Scan# 3085

Delta R.T. 0.00 min

Lab File: VN051009.D

Acq: 4 Sep 2018 11:00

Instrument :

MSVOA_N

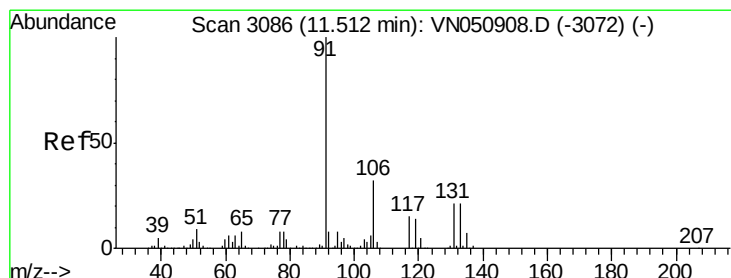
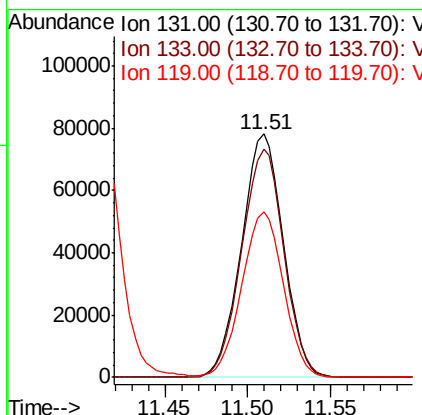
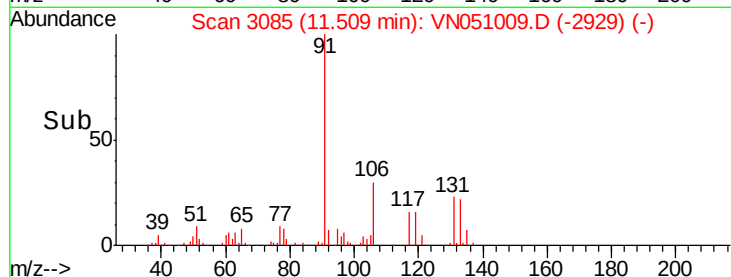
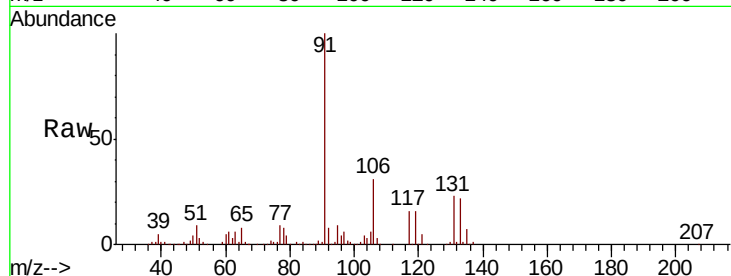
ClientSampled :

VN0904WBS02

Tot Ion:	131	Resp:	137047
Ion Ratio	Lower	Upper	
131	100		
133	94.7	0.0	189.4
119	67.9	0.0	132.2

Manual Integrations
APPROVED

MMDadoda
9/5/2018 12:00:17 PM



#66

Ethyl Benzene

Concen: 18.65 ug/l

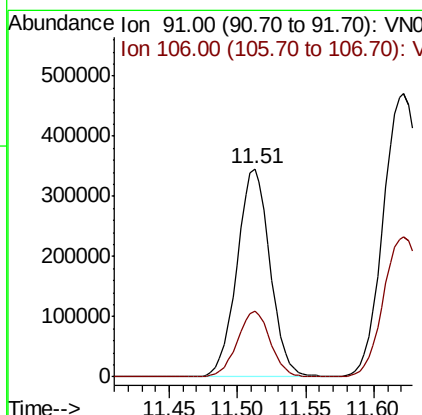
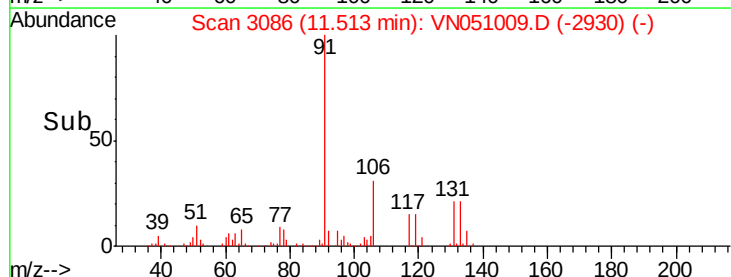
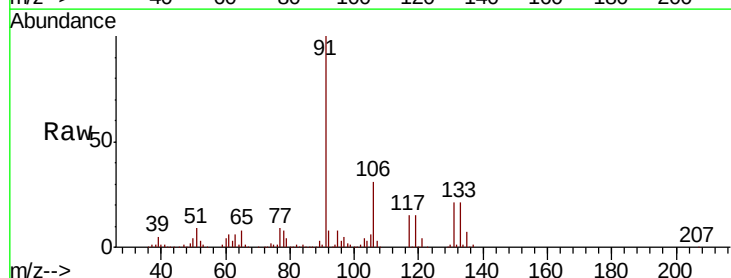
RT: 11.51 min Scan# 3086

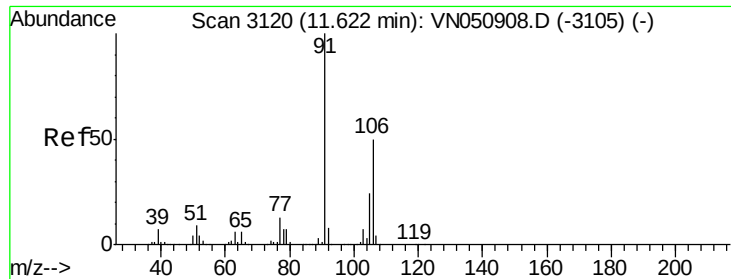
Delta R.T. 0.00 min

Lab File: VN051009.D

Acq: 4 Sep 2018 11:00

Tgt Ion:	91	Resp:	582208
Ion Ratio	Lower	Upper	
91	100		
106	31.5	25.7	38.5





#67

m/p-Xylenes

Concen: 38.75 ug/l

RT: 11.62 min Scan# 3120

Delta R.T. 0.00 min

Lab File: VN051009.D

Acq: 4 Sep 2018 11:00

Instrument :

MSVOA_N

ClientSampleId :

VN0904WBS02

Tot Ion:106 Resp: 465462

Ion Ratio Lower Upper

106 100

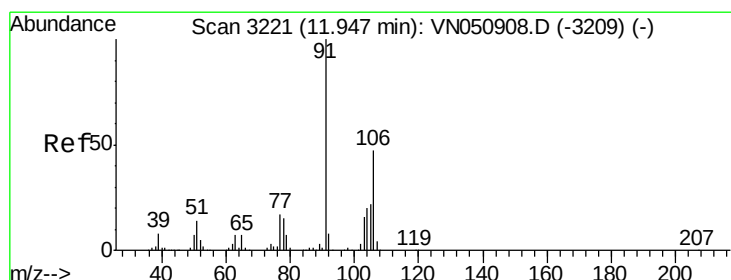
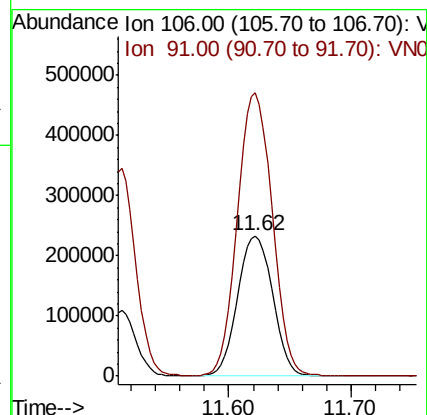
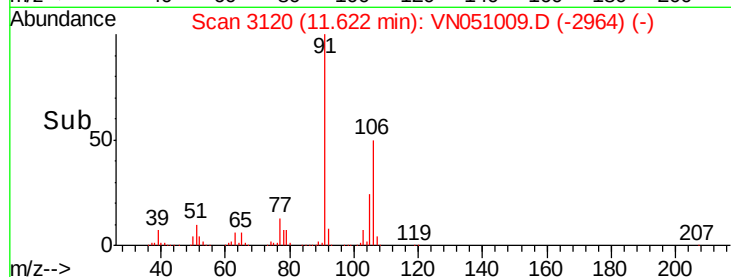
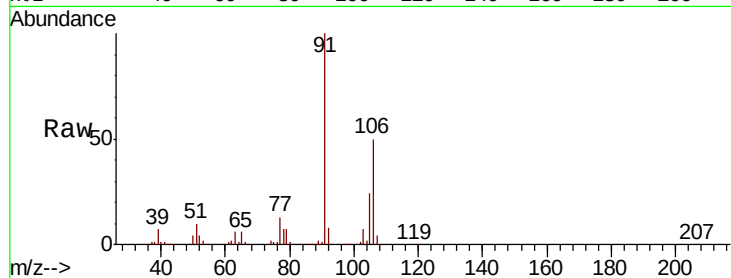
91 200.3 160.6 241.0

Manual Integrations

APPROVED

MMDadoda

9/5/2018 12:00:17 PM



#68

o-Xylene

Concen: 19.54 ug/l

RT: 11.95 min Scan# 3222

Delta R.T. 0.00 min

Lab File: VN051009.D

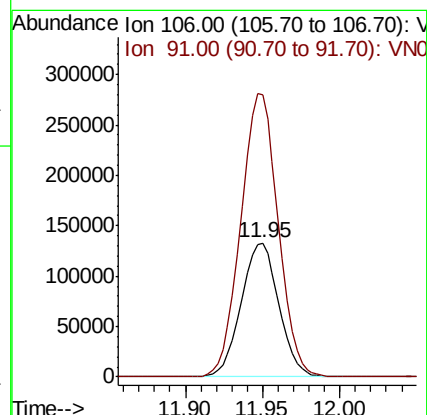
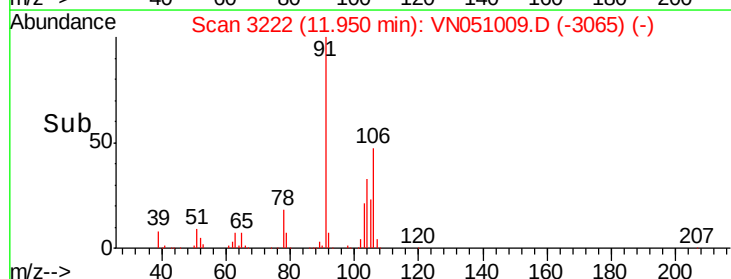
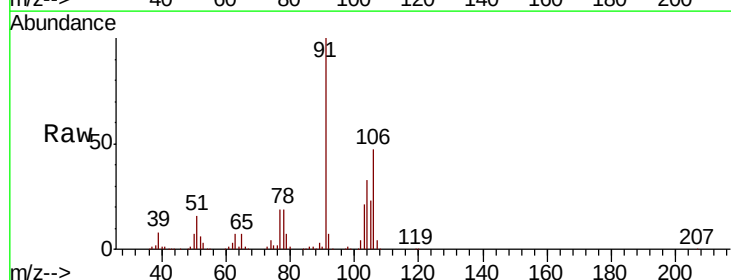
Acq: 4 Sep 2018 11:00

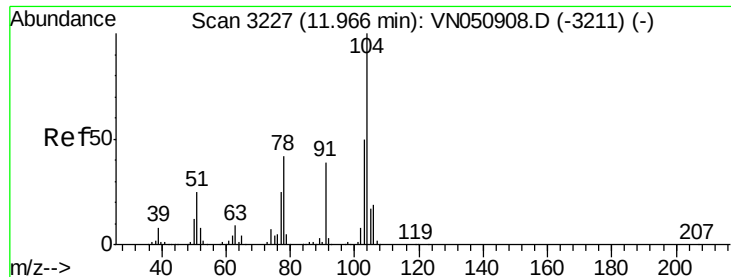
Tgt Ion:106 Resp: 224211

Ion Ratio Lower Upper

106 100

91 210.4 106.4 319.2





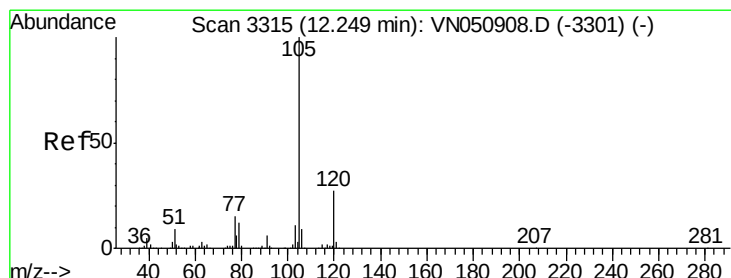
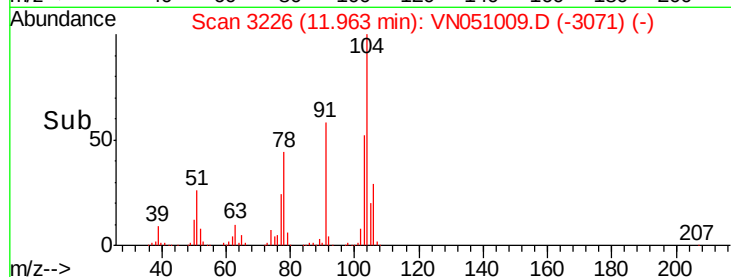
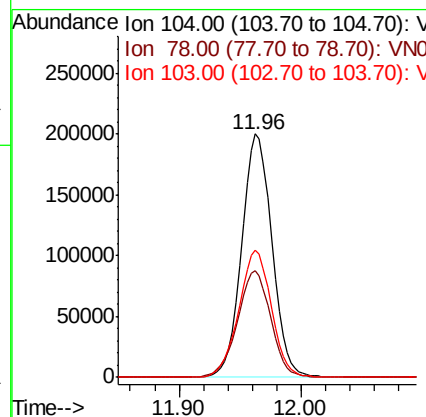
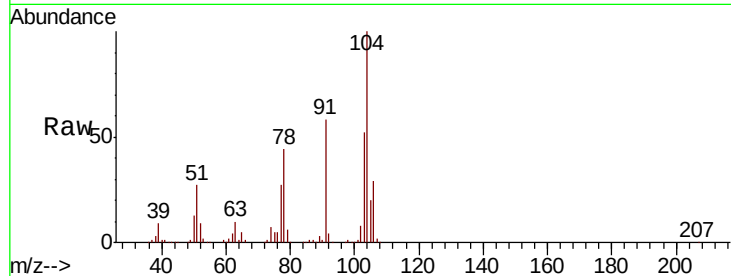
#69
Stvrene
Concen: 18.75 ug/l
RT: 11.96 min Scan# 3226
Delta R.T. -0.00 min
Lab File: VN051009.D
Acq: 4 Sep 2018 11:00

Instrument :
MSVOA_N
ClientSampled :
VN0904WBS02

Tot Ion	Ratio	Lower	Upper
104	100		
78	48.2	38.6	58.0
103	56.4	45.4	68.2

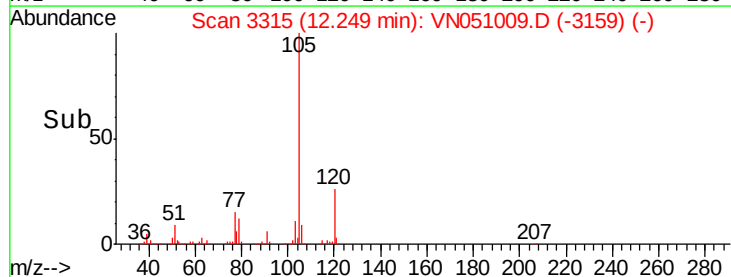
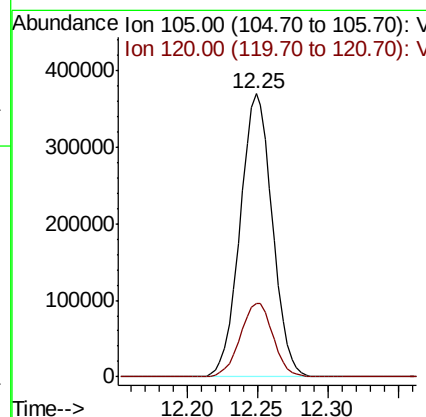
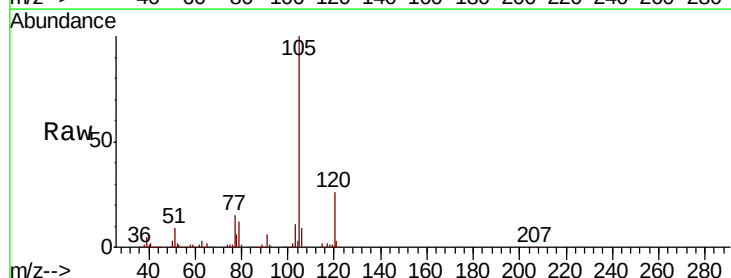
Manual Integrations
APPROVED

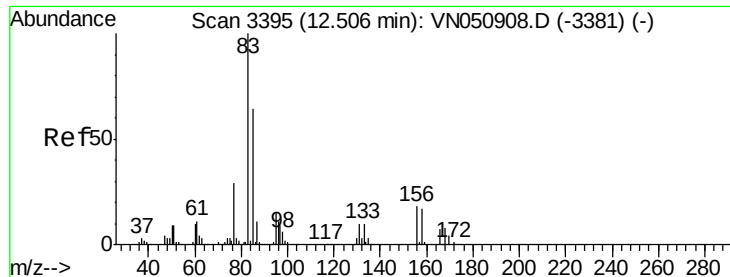
MMDadoda
9/5/2018 12:00:17 PM



#70
Isopropylbenzene
Concen: 19.41 ug/l
RT: 12.25 min Scan# 3315
Delta R.T. 0.00 min
Lab File: VN051009.D
Acq: 4 Sep 2018 11:00

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.5	18.6	34.6





#71

1,1,2,2-Tetrachloroethane

Concen: 17.76 ug/l

RT: 12.50 min Scan# 3394

Delta R.T. -0.00 min

Lab File: VN051009.D

Acq: 4 Sep 2018 11:00

Instrument :

MSVOA_N

ClientSampled :

VN0904WBS02

Tot Ion: 83 Resp: 146663

Ion Ratio Lower Upper

83 100

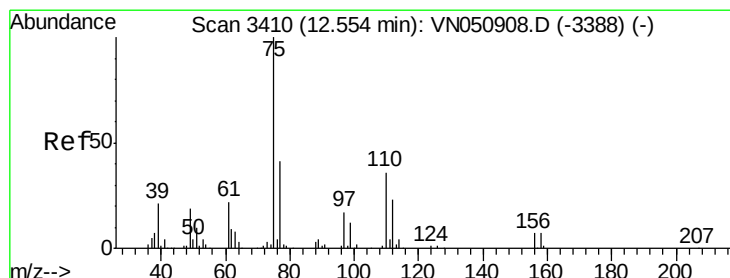
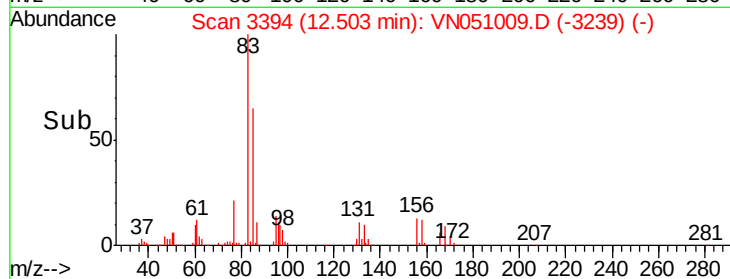
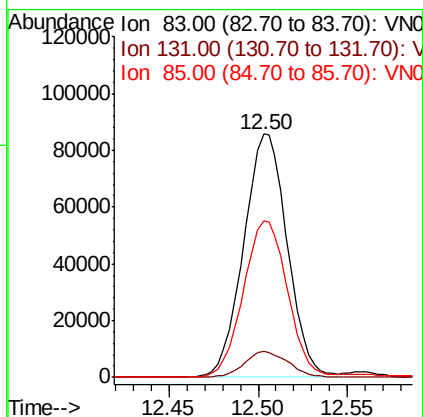
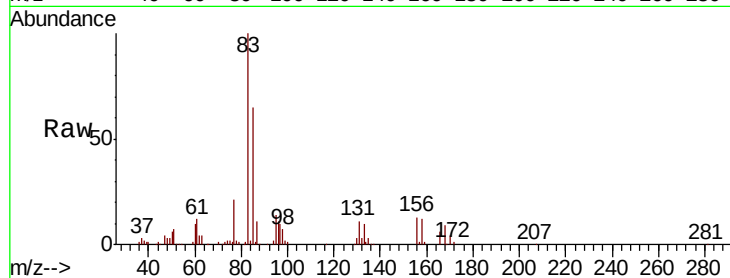
131 10.6 5.3 15.9

85 65.2 32.3 96.9

Manual Integrations
APPROVED

MMDadoda

9/5/2018 12:00:17 PM



#72

1,2,3-Trichloropropane

Concen: 17.18 ug/l m

RT: 12.55 min Scan# 3410

Delta R.T. 0.00 min

Lab File: VN051009.D

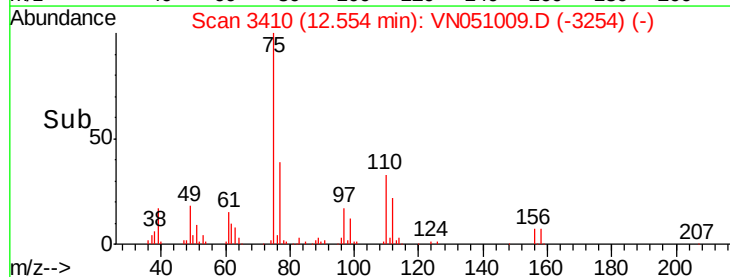
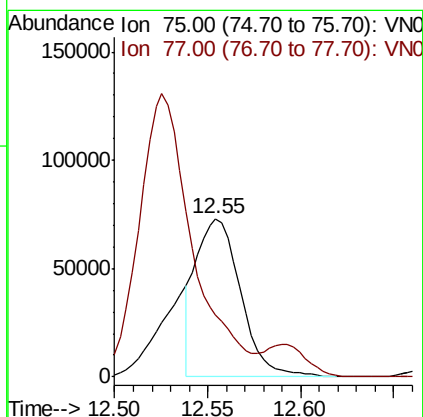
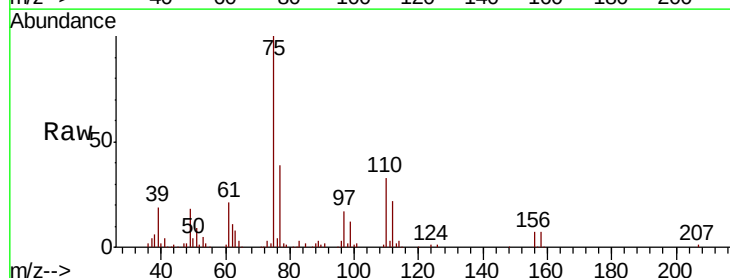
Acq: 4 Sep 2018 11:00

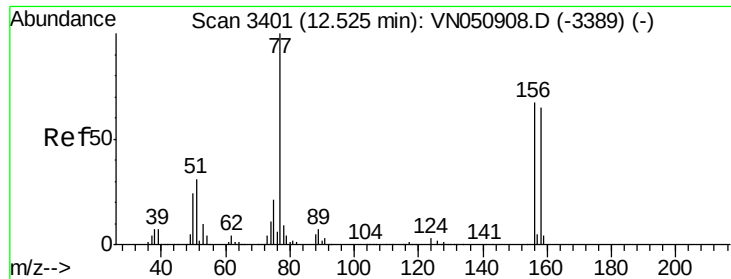
Tgt Ion: 75 Resp: 122361

Ion Ratio Lower Upper

75 100

77 215.8 0.0 301.6





#73

Bromobenzene

Concen: 18.67 ug/l

RT: 12.53 min Scan# 3401

Delta R.T. 0.00 min

Lab File: VN051009.D

Acq: 4 Sep 2018 11:00

Instrument :

MSVOA_N

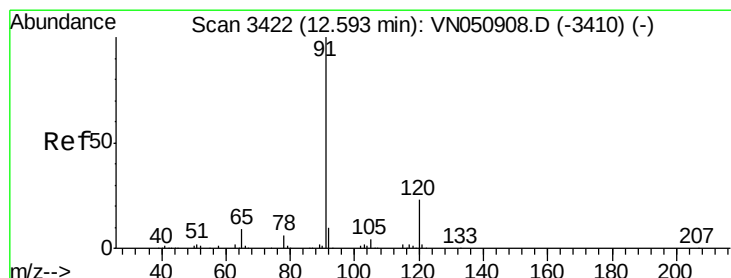
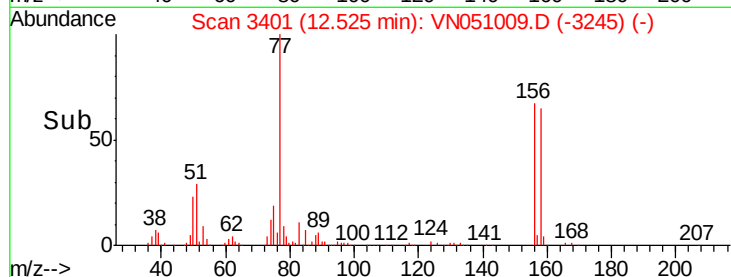
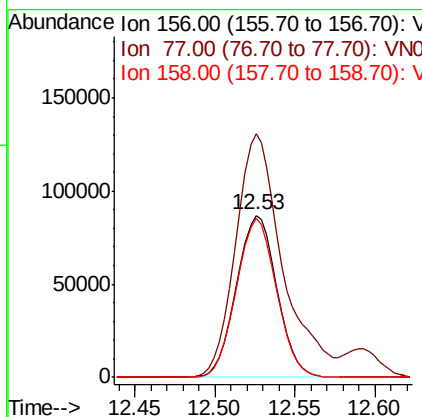
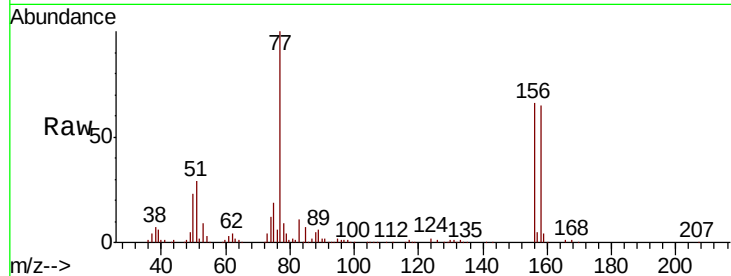
ClientSampled :

VN0904WBS02

Tot Ion	Ion	Ratio	Resp	Lower	Upper
156	100		149811		
77	176.3	0.0	359.4		
158	97.3	0.0	194.6		

Manual Integrations
APPROVED

MMDadoda
9/5/2018 12:00:17 PM



#74

n-propylbenzene

Concen: 18.99 ug/l

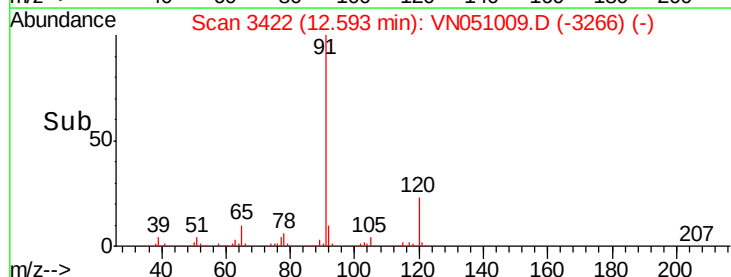
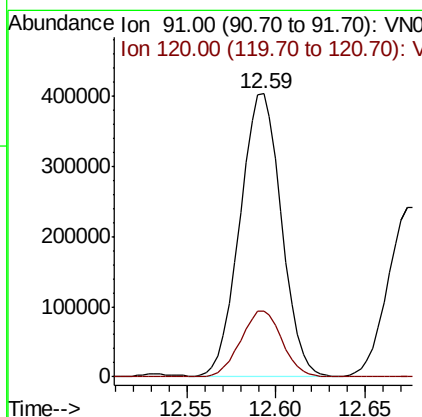
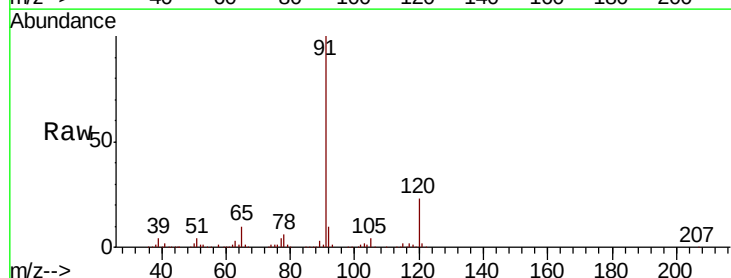
RT: 12.59 min Scan# 3422

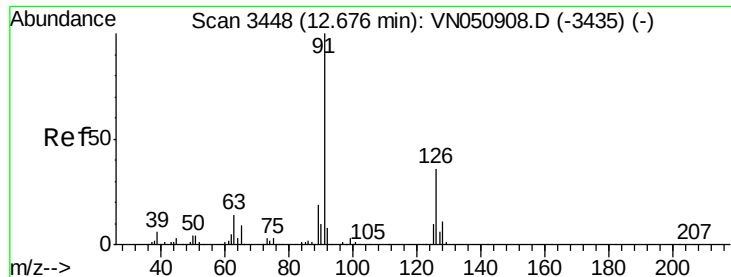
Delta R.T. 0.00 min

Lab File: VN051009.D

Acq: 4 Sep 2018 11:00

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
91	100		654649		
120	23.2	0.0	46.0		





#75

2-Chlorotoluene

Concen: 19.43 ug/l

RT: 12.67 min Scan# 3447

Delta R.T. -0.00 min

Lab File: VN051009.D

Acq: 4 Sep 2018 11:00

Instrument :

MSVOA_N

ClientSampled :

VN0904WBS02

Tot Ion: 91 Resp: 406909

Ion Ratio Lower Upper

91 100

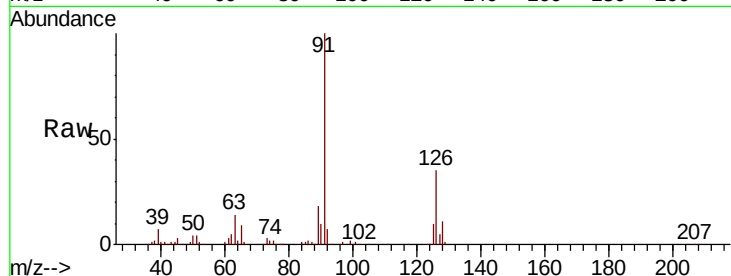
126 35.1 0.0 71.8

Manual Integrations

APPROVED

MMDadoda

9/5/2018 12:00:17 PM



Abundance Ion 91.00 (90.70 to 91.70): VN051009.D (-3292) (-)

Ion 126.00 (125.70 to 126.70): VN051009.D (-3292) (-)

400000

300000

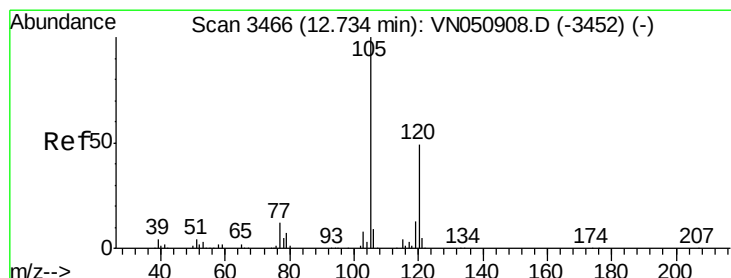
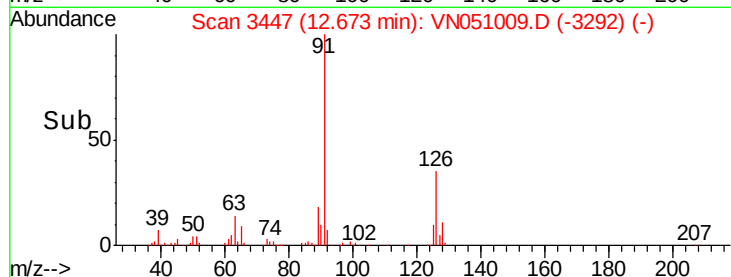
200000

100000

0

12.60 12.65 12.70

Time-->



#76

1,3,5-Trimethylbenzene

Concen: 19.50 ug/l

RT: 12.73 min Scan# 3465

Delta R.T. -0.00 min

Lab File: VN051009.D

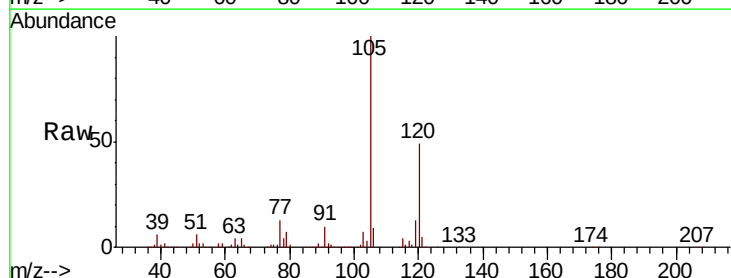
Acq: 4 Sep 2018 11:00

Tgt Ion: 105 Resp: 486043

Ion Ratio Lower Upper

105 100

120 49.7 0.0 99.6



Abundance Ion 105.00 (104.70 to 105.70): VN051009.D (-3310) (-)

Ion 120.00 (119.70 to 120.70): VN051009.D (-3310) (-)

300000

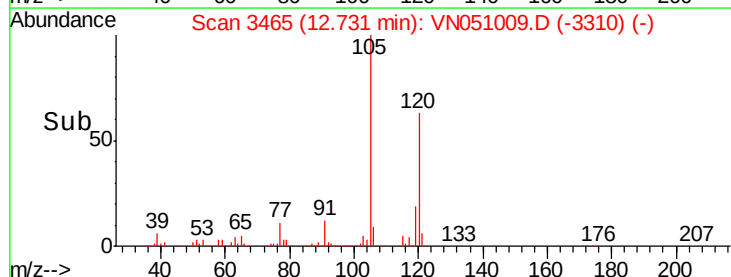
200000

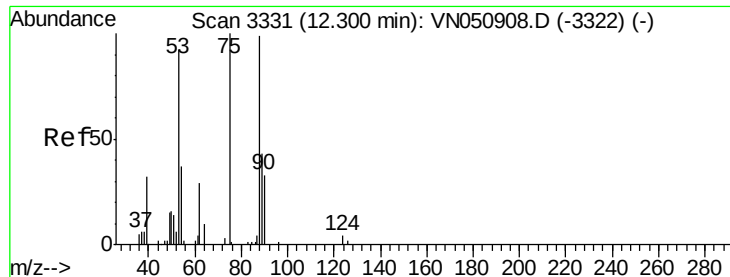
100000

0

12.70 12.80

Time-->





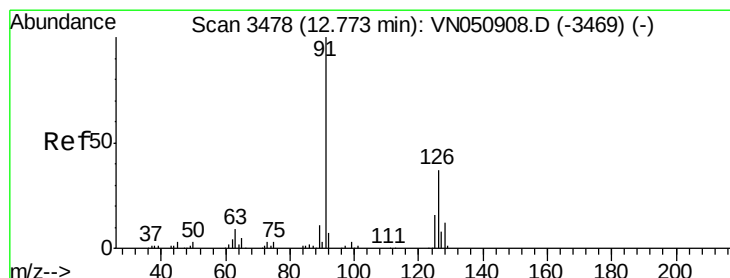
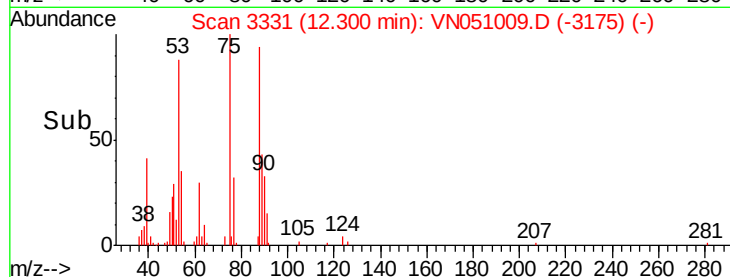
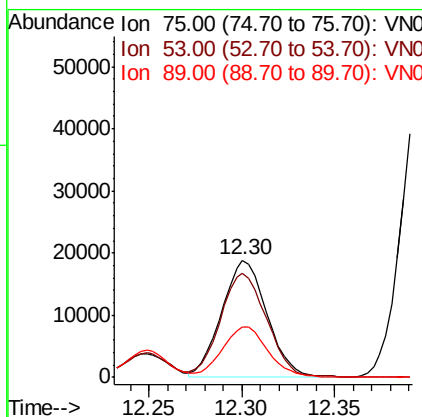
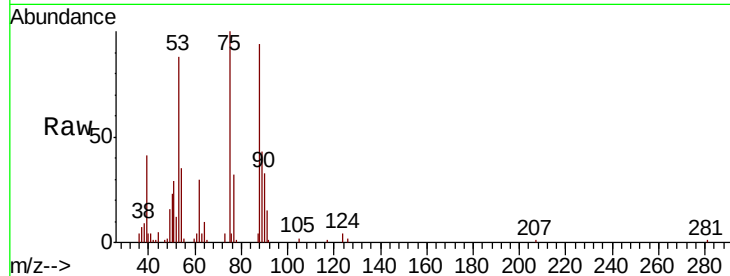
#77
t-1,4-Dichloro-2-butene
Concen: 15.82 ug/l
RT: 12.30 min Scan# 3331
Delta R.T. 0.00 min
Lab File: VN051009.D
Acq: 4 Sep 2018 11:00

Instrument :
MSVOA_N
ClientSampled :
VN0904WBS02

Tot Ion	Ratio	Lower	Upper
75	100		
53	88.3	45.5	136.4
89	43.2	21.9	65.8

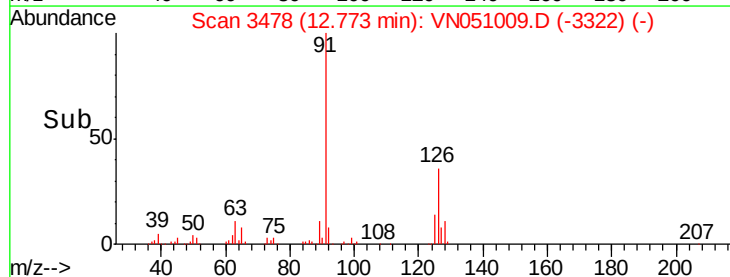
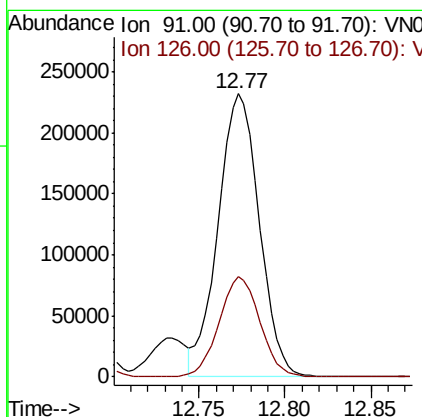
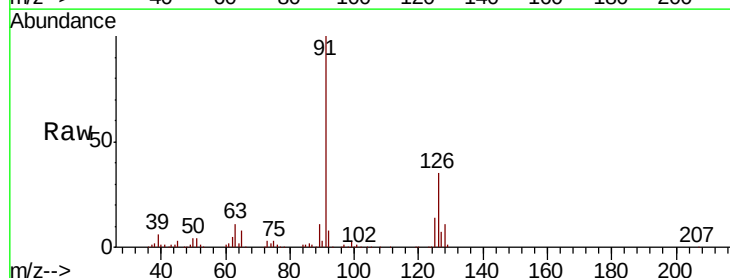
Manual Integrations
APPROVED

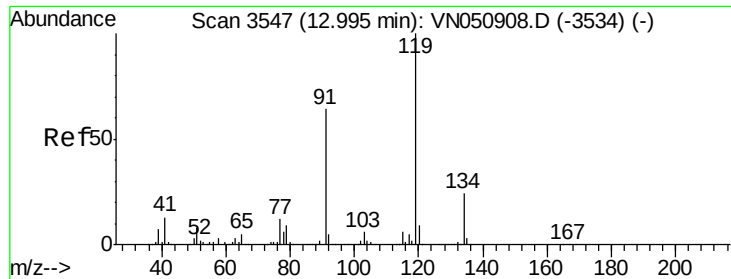
MMDadoda
9/5/2018 12:00:17 PM



#78
4-Chlorotoluene
Concen: 18.69 ug/l
RT: 12.77 min Scan# 3478
Delta R.T. 0.00 min
Lab File: VN051009.D
Acq: 4 Sep 2018 11:00

Tgt Ion	Ratio	Lower	Upper
91	100		
126	35.2	0.0	69.8





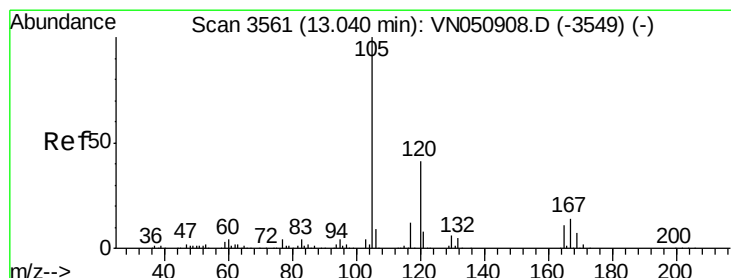
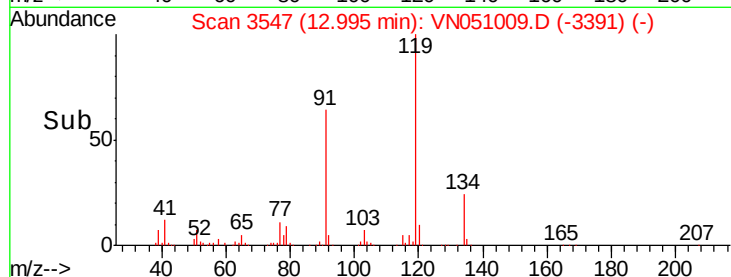
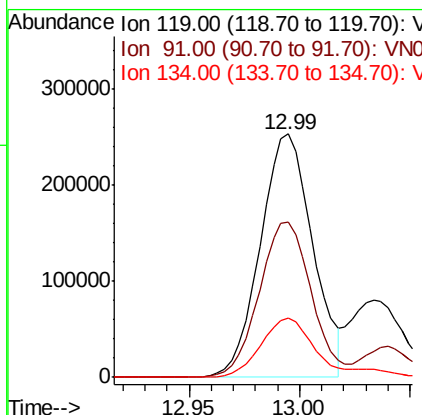
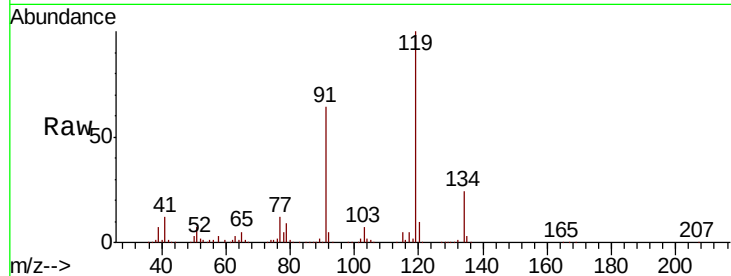
#79
tert-butylbenzene
Concen: 19.25 ug/l
RT: 12.99 min Scan# 3547
Delta R.T. 0.00 min
Lab File: VN051009.D
Acq: 4 Sep 2018 11:00

Instrument :
MSVOA_N
ClientSampleId :
VN0904WBS02

Tot Ion	Ratio	Resp	Lower	Upper
119	100	416594		
91	63.2	0.0	125.6	
134	24.2	0.0	48.4	

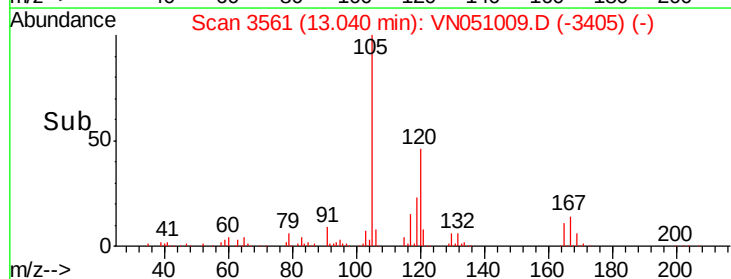
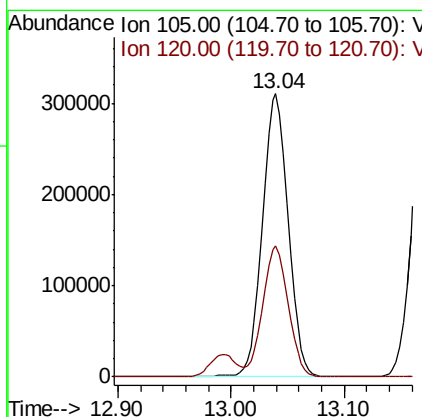
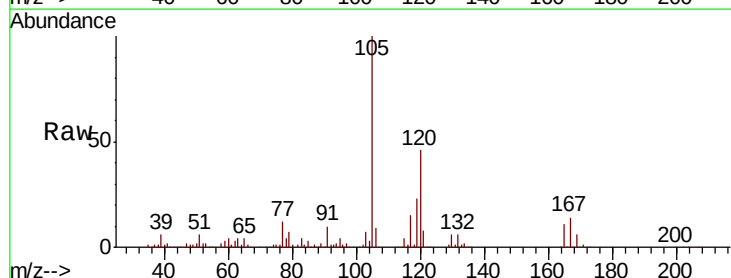
Manual Integrations
APPROVED

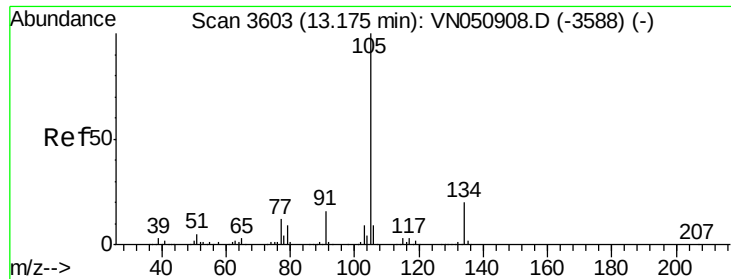
MMDadoda
9/5/2018 12:00:17 PM



#80
1,2,4-Trimethylbenzene
Concen: 19.72 ug/l
RT: 13.04 min Scan# 3561
Delta R.T. 0.00 min
Lab File: VN051009.D
Acq: 4 Sep 2018 11:00

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	490008		
120	45.9	0.0	93.6	





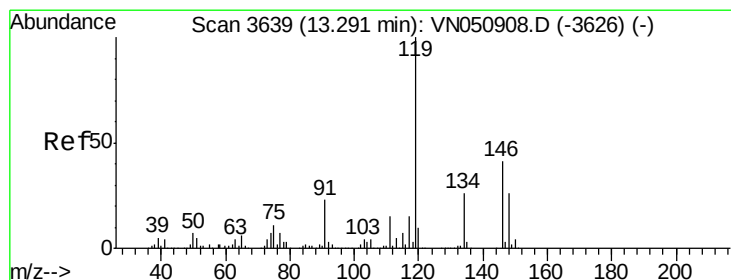
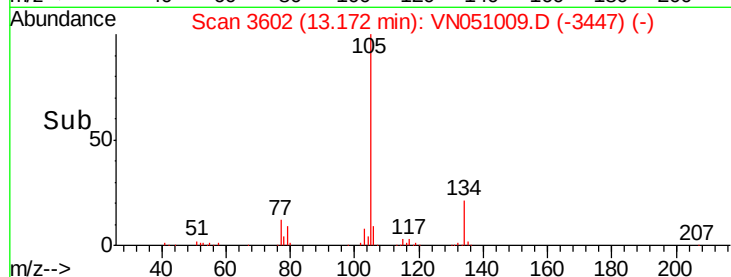
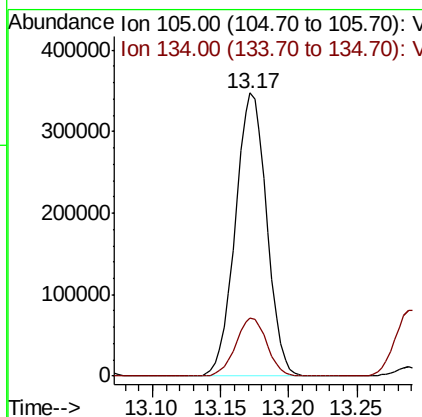
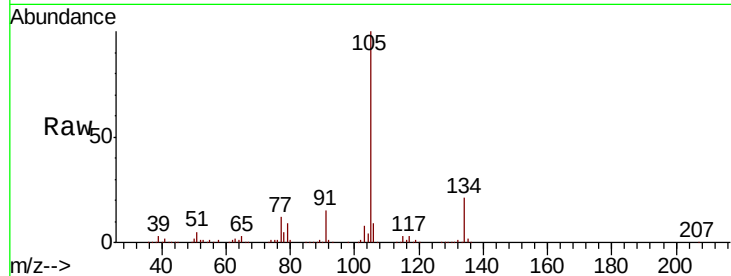
#81
 sec-Butylbenzene
 Concen: 19.52 ug/l
 RT: 13.17 min Scan# 3602
 Delta R.T. -0.00 min
 Lab File: VN051009.D
 Acq: 4 Sep 2018 11:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0904WBS02

Tot Ion	Ratio	Resp	Lower	Upper
105	100	552711		
134	20.4	0.0	40.8	

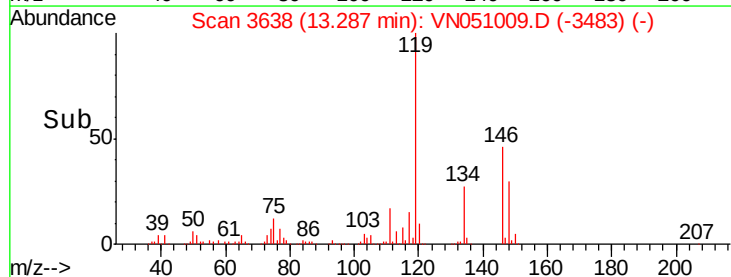
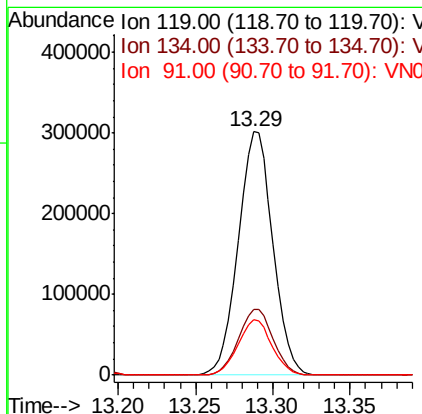
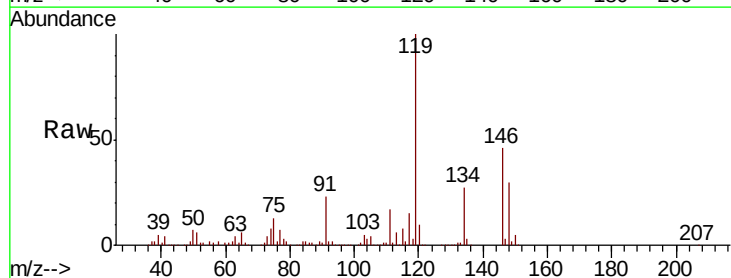
Manual Integrations
 APPROVED

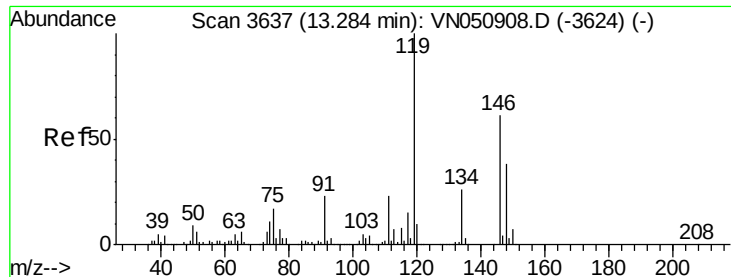
MMDadoda
 9/5/2018 12:00:17 PM



#82
 p-Isopropyltoluene
 Concen: 19.09 ug/l
 RT: 13.29 min Scan# 3638
 Delta R.T. -0.00 min
 Lab File: VN051009.D
 Acq: 4 Sep 2018 11:00

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	466627		
134	27.3	0.0	53.2	
91	22.1	0.0	46.0	





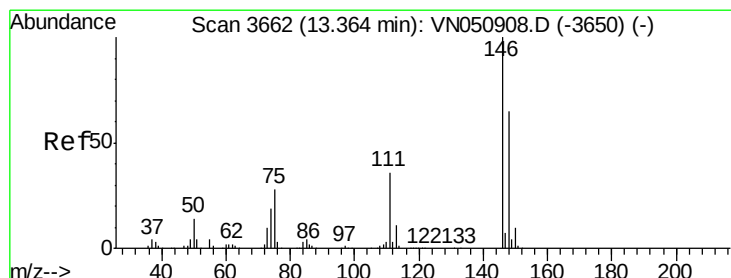
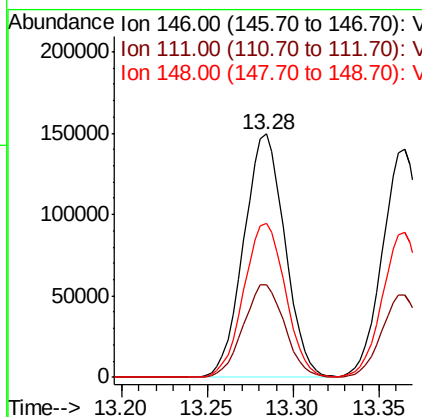
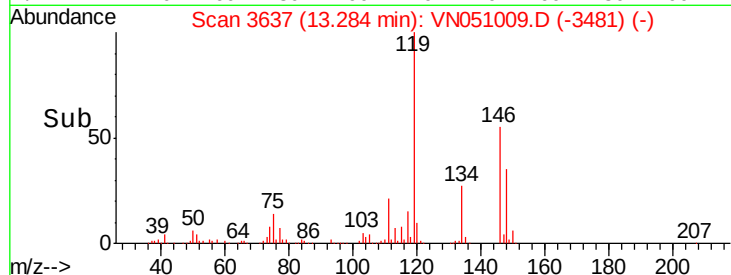
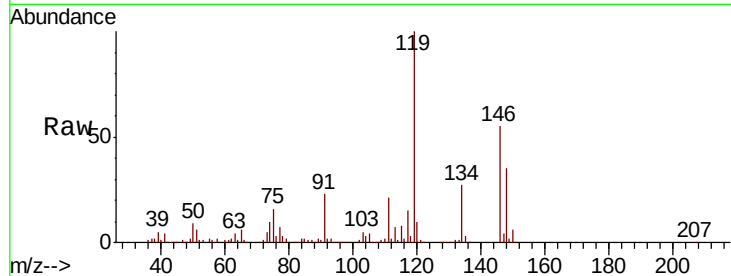
#83
 1,3-Dichlorobenzene
 Concen: 18.37 ug/l
 RT: 13.28 min Scan# 3637
 Delta R.T. 0.00 min
 Lab File: VN051009.D
 Acq: 4 Sep 2018 11:00

Instrument :
 MSVOA_N
 ClientSampled :
 VN0904WBS02

Tot Ion	Ratio	Resp	Lower	Upper
146	100	249233		
111	38.2	18.6	55.6	
148	63.8	31.8	95.3	

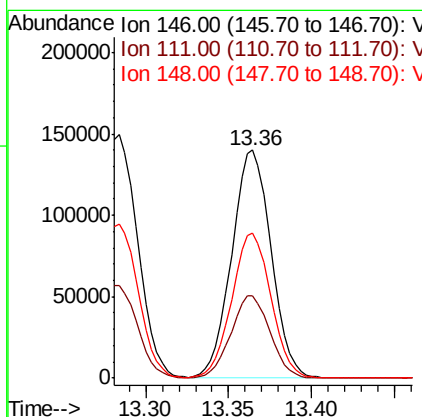
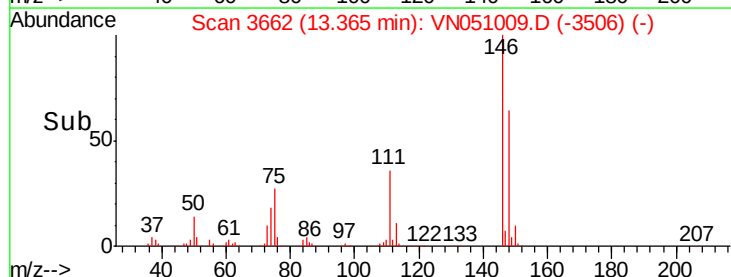
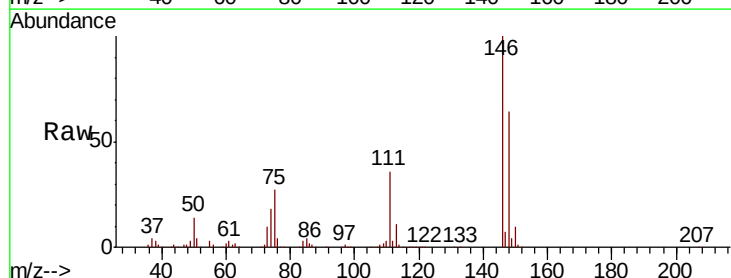
Manual Integrations
 APPROVED

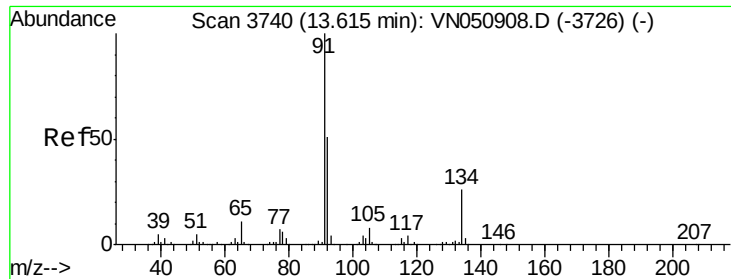
MMDadoda
 9/5/2018 12:00:17 PM



#84
 1,4-Dichlorobenzene
 Concen: 17.96 ug/l
 RT: 13.36 min Scan# 3662
 Delta R.T. 0.00 min
 Lab File: VN051009.D
 Acq: 4 Sep 2018 11:00

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	230814		
111	36.1	17.7	53.1	
148	63.4	31.6	94.8	





#85

n-Butylbenzene

Concen: 17.31 ug/l

RT: 13.62 min Scan# 3740

Delta R.T. 0.00 min

Lab File: VN051009.D

Acq: 4 Sep 2018 11:00

Instrument :

MSVOA_N

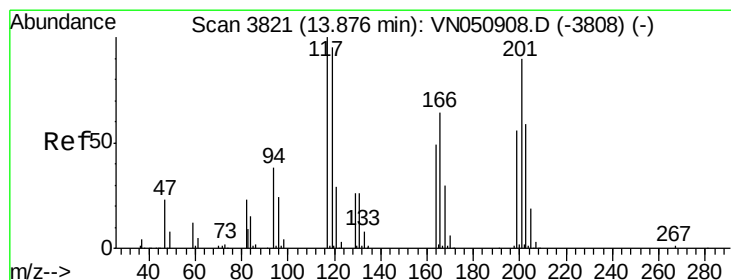
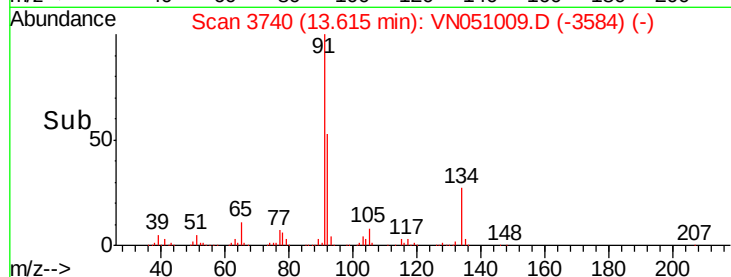
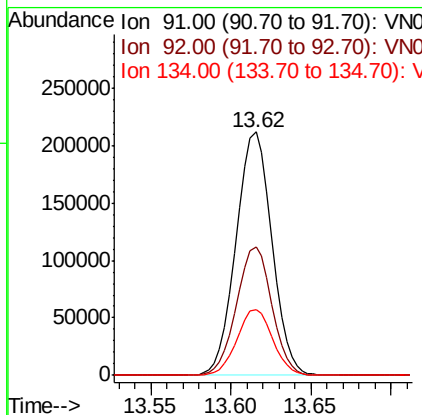
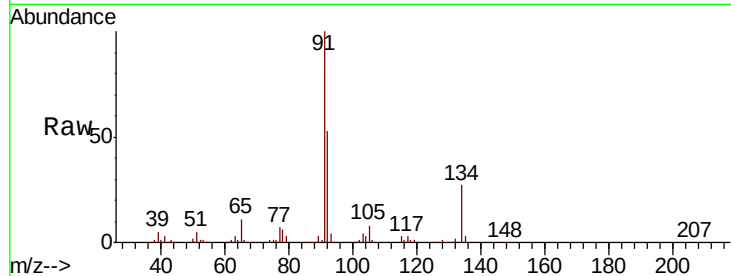
ClientSampleId :

VN0904WBS02

Tot Ion:	91	Resp:	322859
Ion Ratio	Lower	Upper	
91	100		
92	51.9	0.0	101.8
134	26.9	0.0	52.2

Manual Integrations
APPROVED

MMDadoda
9/5/2018 12:00:17 PM



#86

Hexachloroethane

Concen: 18.93 ug/l

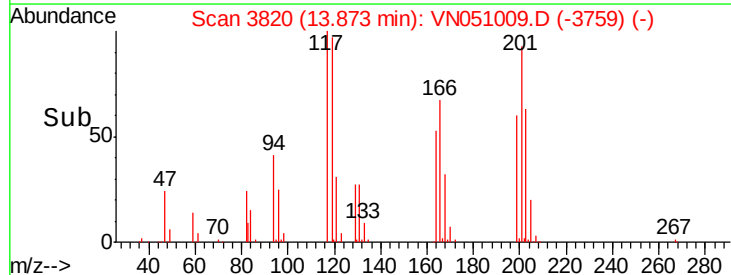
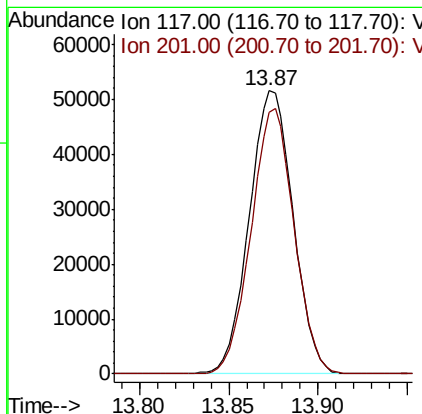
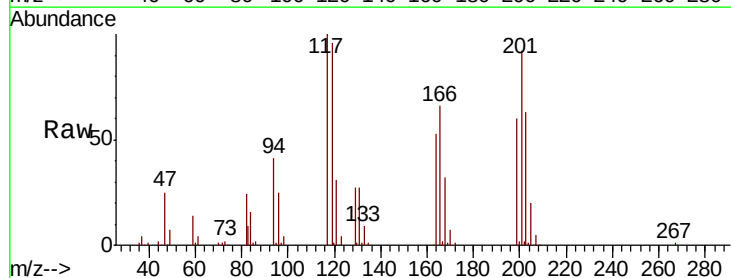
RT: 13.87 min Scan# 3820

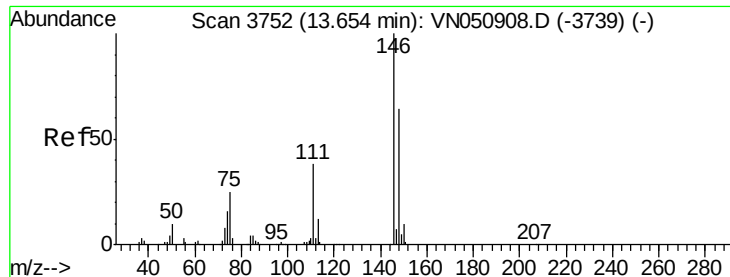
Delta R.T. -0.00 min

Lab File: VN051009.D

Acq: 4 Sep 2018 11:00

Tgt Ion:	117	Resp:	88802
Ion Ratio	Lower	Upper	
117	100		
201	91.7	45.8	137.4





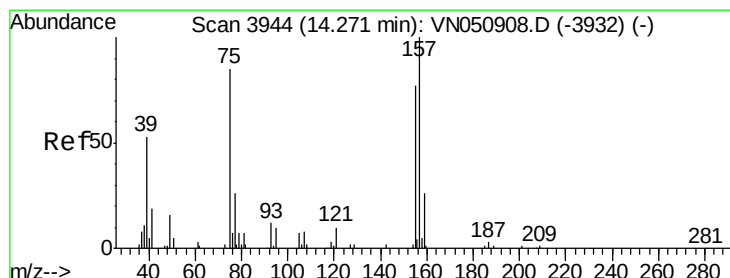
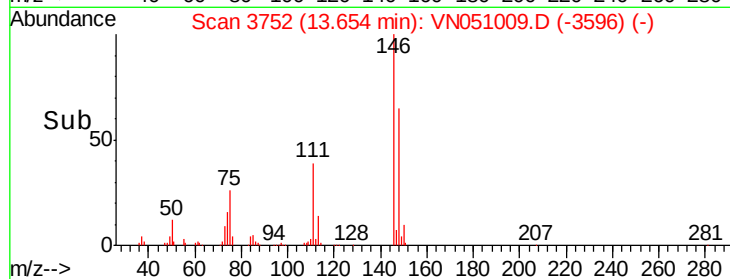
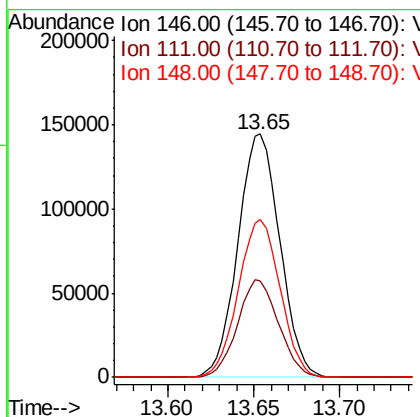
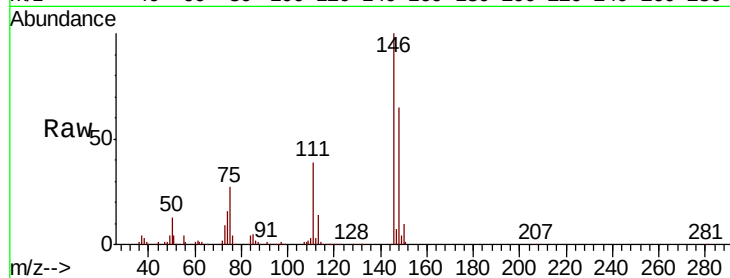
#87
 1,2-Dichlorobenzene
 Concen: 18.32 ug/l
 RT: 13.65 min Scan# 3752
 Delta R.T. 0.00 min
 Lab File: VN051009.D
 Acq: 4 Sep 2018 11:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0904WBS02

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.3	19.1	57.1
148	64.7	31.9	95.9

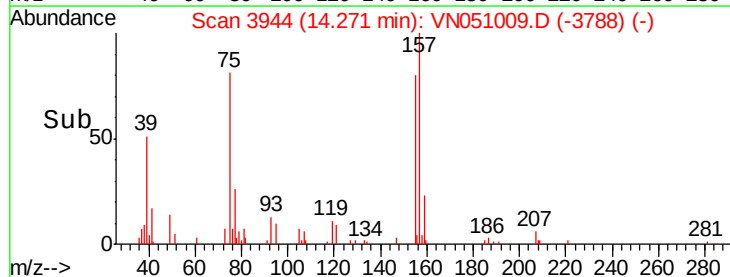
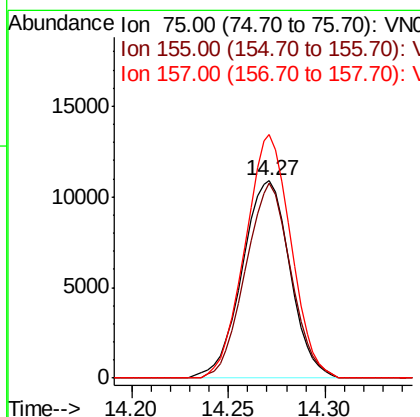
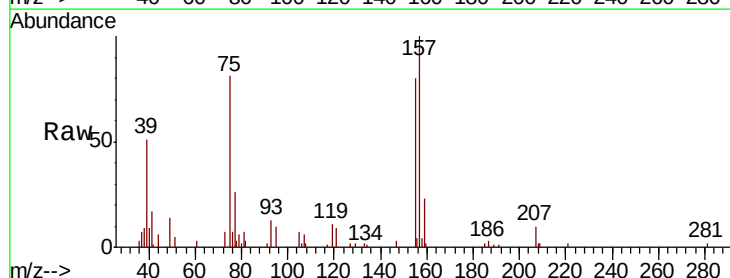
Manual Integrations
 APPROVED

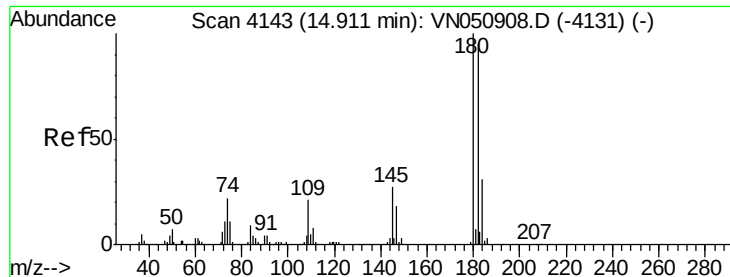
MMDadoda
 9/5/2018 12:00:17 PM



#88
 1,2-Dibromo-3-Chloropropane
 Concen: 16.19 ug/l
 RT: 14.27 min Scan# 3944
 Delta R.T. 0.00 min
 Lab File: VN051009.D
 Acq: 4 Sep 2018 11:00

Tgt Ion	Ratio	Lower	Upper
75	100		
155	93.6	71.8	107.6
157	118.1	91.1	136.7





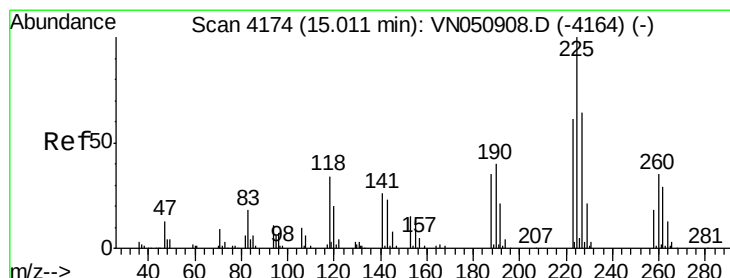
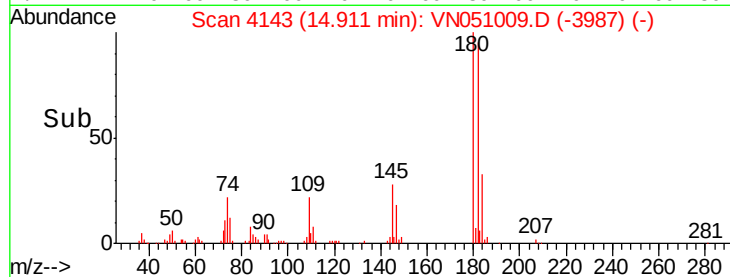
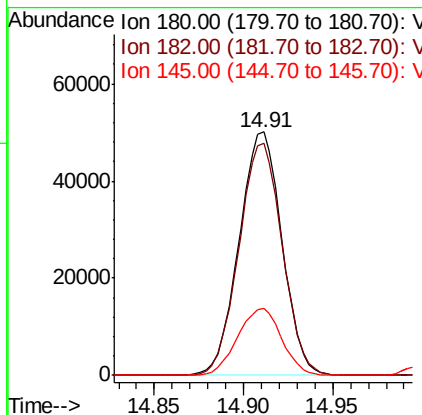
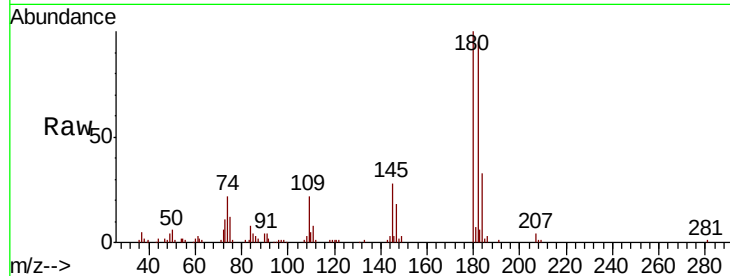
#89
 1,2,4-Trichlorobenzene
 Concen: 14.11 ug/l
 RT: 14.91 min Scan# 4143
 Delta R.T. 0.00 min
 Lab File: VN051009.D
 Acq: 4 Sep 2018 11:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0904WBS02

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.2	76.2	114.4
145	28.1	22.2	33.4

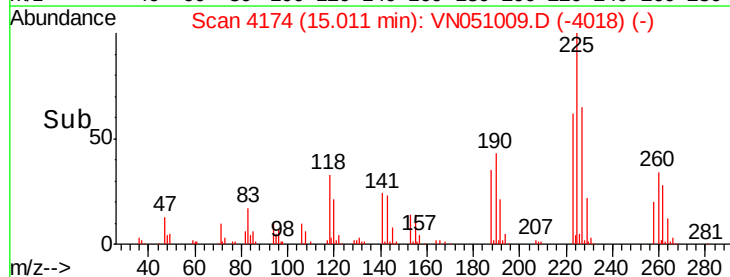
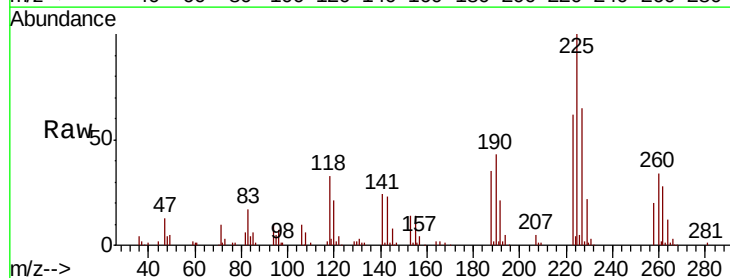
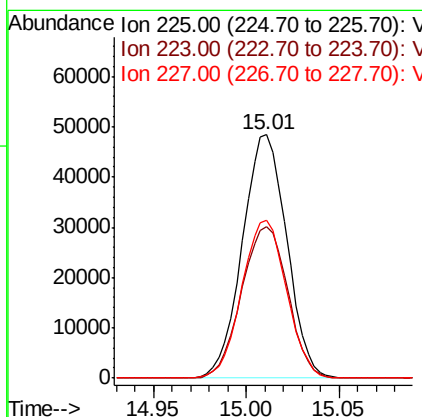
Manual Integrations
 APPROVED

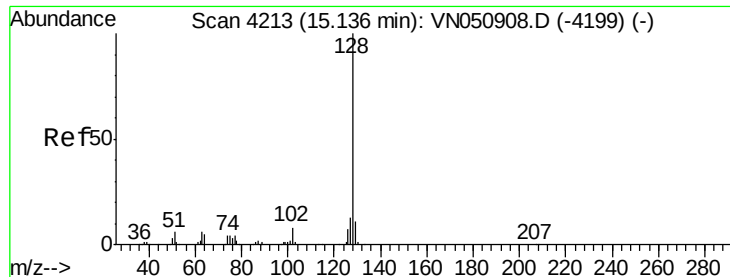
MMDadoda
 9/5/2018 12:00:17 PM



#90
 Hexachlorobutadiene
 Concen: 19.90 ug/l
 RT: 15.01 min Scan# 4174
 Delta R.T. 0.00 min
 Lab File: VN051009.D
 Acq: 4 Sep 2018 11:00

Tgt Ion	Ratio	Lower	Upper
225	100		
223	64.5	0.0	127.8
227	65.2	0.0	128.4





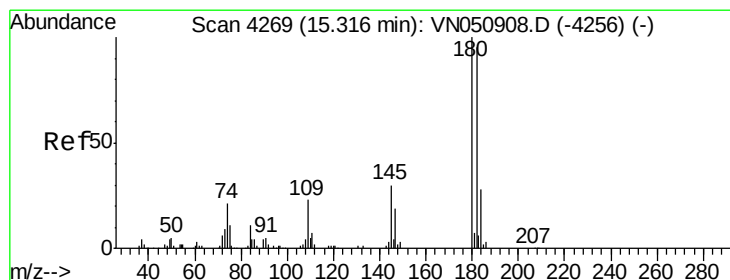
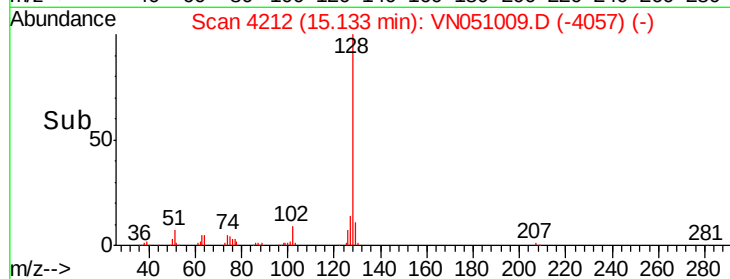
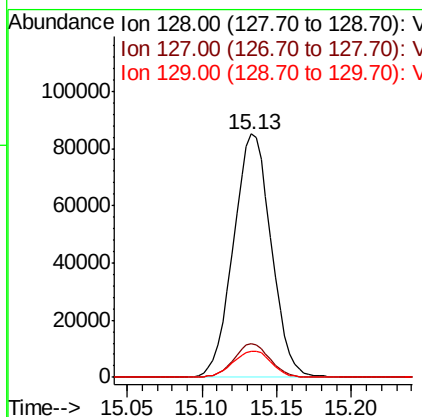
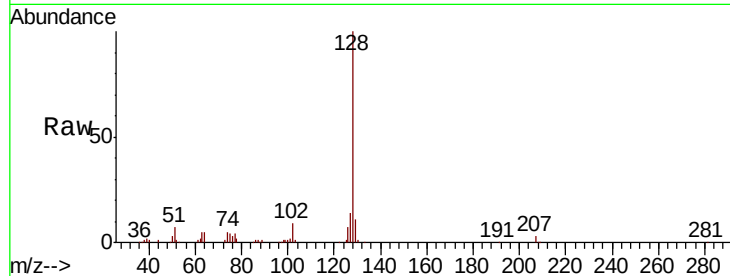
#91
Naphthalene
Concen: 16.62 ug/l
RT: 15.13 min Scan# 4212
Delta R.T. -0.00 min
Lab File: VN051009.D
Acq: 4 Sep 2018 11:00

Instrument :
MSVOA_N
ClientSampleId :
VN0904WBS02

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.6	16.0
129	11.0	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
9/5/2018 12:00:17 PM



#92
1,2,3-Trichlorobenzene
Concen: 15.12 ug/l
RT: 15.32 min Scan# 4269
Delta R.T. 0.00 min
Lab File: VN051009.D
Acq: 4 Sep 2018 11:00

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.6	0.0	192.8
145	29.6	0.0	60.0

