

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080318\
 Data File : VN050315.D
 Acq On : 3 Aug 2018 16:12
 Operator : MD\SY
 Sample : VN0803WBSD02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0803WBSD02

Manual Integrations
 APPROVED

MMDadoda
 8/6/2018 11:38:32 AM

Quant Time: Aug 03 23:59:31 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072418W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 26 18:10:10 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	552182	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	852035	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	770463	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	411947	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	416856	54.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.22%	
35) Dibromofluoromethane	7.59	113	366008	52.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.22%	
50) Toluene-d8	10.09	98	1280090	50.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.10%	
62) 4-Bromofluorobenzene	12.40	95	434038	51.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.08%	

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.85	85	154106	19.42	ug/l	99
3) Chloromethane	2.06	50	152409	17.67	ug/l	99
4) Vinyl Chloride	2.18	62	164263	18.09	ug/l	97
5) Bromomethane	2.56	94	73497	13.85	ug/l	97
6) Chloroethane	2.70	64	100089	18.35	ug/l	96
7) Trichlorofluoromethane	3.01	101	227652	19.35	ug/l	99
8) Diethyl Ether	3.41	74	88508	22.57	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.75	101	141613	20.02	ug/l	99
10) Methyl Iodide	3.95	142	72326	7.96	ug/l	98
11) Tert butyl alcohol	4.80	59	81844	144.38	ug/l	100
12) 1,1-Dichloroethene	3.73	96	123874	19.46	ug/l	97
13) Acrolein	3.61	56	81244	178.38	ug/l	94
14) Allyl chloride	4.32	41	208184	21.10	ug/l	97
15) Acrylonitrile	4.99	53	311083	125.78	ug/l	99
16) Acetone	3.82	43	272078	148.16	ug/l	99
17) Carbon Disulfide	4.05	76	324649	16.65	ug/l	99
18) Methyl Acetate	4.33	43	249424	34.84	ug/l	100
19) Methyl tert-butyl Ether	5.05	73	410124	24.18	ug/l	99
20) Methylene Chloride	4.55	84	155537	22.07	ug/l	99
21) trans-1,2-Dichloroethene	5.04	96	133670	19.82	ug/l	99
22) Diisopropyl ether	5.96	45	470746	24.06	ug/l	96
23) Vinyl Acetate	5.90	43	1582277	114.43	ug/l	99
24) 1,1-Dichloroethane	5.85	63	270478	21.14	ug/l	99
25) 2-Butanone	6.84	43	383148	130.38	ug/l	99
26) 2,2-Dichloropropane	6.83	77	204490	21.01	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	158202	21.79	ug/l	99
28) Bromochloromethane	7.20	49	127674	21.88	ug/l	100
29) Tetrahydrofuran	7.22	42	249494	131.39	ug/l	99
30) Chloroform	7.37	83	280279	21.47	ug/l	97
31) Cyclohexane	7.65	56	204297	19.21	ug/l	97
32) 1,1,1-Trichloroethane	7.57	97	232785	20.84	ug/l	100
36) 1,1-Dichloropropene	7.80	75	184786	19.25	ug/l	100
37) Ethyl Acetate	6.93	43	158780	23.72	ug/l	99
38) Carbon Tetrachloride	7.78	117	192694	18.92	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080318\
 Data File : VN050315.D
 Acq On : 3 Aug 2018 16:12
 Operator : MD\SY
 Sample : VN0803WBSD02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0803WBSD02

Manual Integrations
 APPROVED

MMDadoda
 8/6/2018 11:38:32 AM

Quant Time: Aug 03 23:59:31 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072418W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 26 18:10:10 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	177369	17.96	ug/l	99
40) Benzene	8.04	78	603982	20.68	ug/l	98
41) Methacrylonitrile	7.18	41	77518	23.76	ug/l	91
42) 1,2-Dichloroethane	8.13	62	208706	21.42	ug/l	98
43) Isopropyl Acetate	8.17	43	393710	30.78	ug/l #	96
44) Trichloroethene	8.84	130	153840	19.60	ug/l	98
45) 1,2-Dichloropropane	9.12	63	168251	21.75	ug/l	98
46) Dibromomethane	9.21	93	106557	22.18	ug/l	99
47) Bromodichloromethane	9.40	83	217821	21.48	ug/l	100
48) Methyl methacrylate	9.20	41	141030	24.47	ug/l	99
49) 1,4-Dioxane	9.20	88	43388	553.13	ug/l	99
51) 4-Methyl-2-Pentanone	9.99	43	845511	128.51	ug/l	100
52) Toluene	10.16	92	366037	21.23	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	211876	22.14	ug/l	98
54) cis-1,3-Dichloropropene	9.84	75	236653	21.64	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	159118	23.27	ug/l	99
56) Ethyl methacrylate	10.43	69	196022	22.33	ug/l	99
57) 1,3-Dichloropropane	10.71	76	255379	22.93	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.70	63	428603	104.17	ug/l	100
59) 2-Hexanone	10.75	43	577018	122.06	ug/l	100
60) Dibromochloromethane	10.90	129	167974	22.18	ug/l	99
61) 1,2-Dibromoethane	11.01	107	153223	22.58	ug/l	99
64) Tetrachloroethene	10.63	164	151278	20.42	ug/l	98
65) Chlorobenzene	11.44	112	403330	20.72	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	156271	20.90	ug/l	99
67) Ethyl Benzene	11.51	91	645820	20.66	ug/l	100
68) m/p-Xylenes	11.62	106	509022	43.05	ug/l	99
69) o-Xylene	11.95	106	244801	21.72	ug/l	99
70) Styrene	11.97	104	404638	20.73	ug/l	99
71) Bromoform	12.13	173	119439	21.96	ug/l #	100
73) Isopropylbenzene	12.25	105	638195	19.98	ug/l	100
74) N-amyl acetate	12.07	43	232554	23.82	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.51	83	216526	24.47	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	177626m	23.20	ug/l	
77) Bromobenzene	12.53	156	178023	20.10	ug/l	95
78) n-propylbenzene	12.59	91	735738	20.60	ug/l	99
79) 2-Chlorotoluene	12.68	91	455705	20.59	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	537578	21.39	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	50529	20.93	ug/l	95
82) 4-Chlorotoluene	12.77	91	474132	21.63	ug/l	100
83) tert-Butylbenzene	12.99	119	462945	21.11	ug/l	98
84) 1,2,4-Trimethylbenzene	13.04	105	563076	22.23	ug/l	99
85) sec-Butylbenzene	13.17	105	613623	20.94	ug/l	100
86) p-Isopropyltoluene	13.29	119	524737	21.25	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	313657	20.90	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	306732	20.96	ug/l	98
89) n-Butylbenzene	13.62	91	421828	20.78	ug/l	99
90) Hexachloroethane	13.88	117	77579	14.15	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	316744	21.11	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	36447	25.20	ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080318\
Data File : VN050315.D
Acq On : 3 Aug 2018 16:12
Operator : MD\SY
Sample : VN0803WBSD02
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0803WBSD02

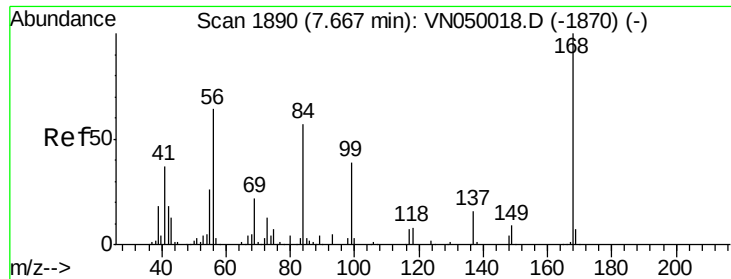
Manual Integrations
APPROVED

MMDadoda
8/6/2018 11:38:32 AM

Quant Time: Aug 03 23:59:31 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072418W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 26 18:10:10 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	165735	22.63	ug/l	96
94) Hexachlorobutadiene	15.01	225	91802	19.98	ug/l	100
95) Naphthalene	15.14	128	423328	24.93	ug/l	99
96) 1,2,3-Trichlorobenzene	15.32	180	172560	23.49	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.00 min

Lab File: VN050315.D

Acq: 3 Aug 2018 16:12

Instrument :

MSVOA_N

ClientSampleId :

VN0803WBSD02

Tot Ion:168 Resp: 552182

Ion Ratio Lower Upper

168 100

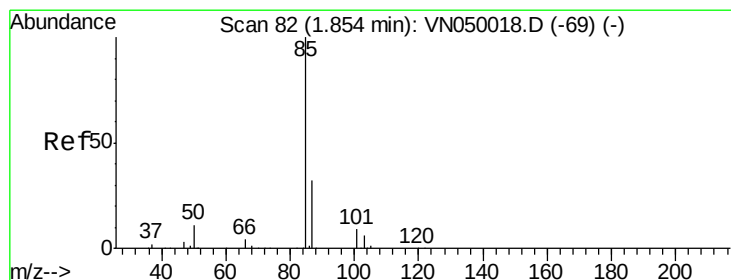
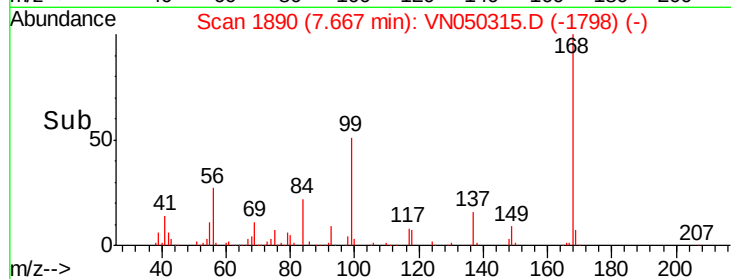
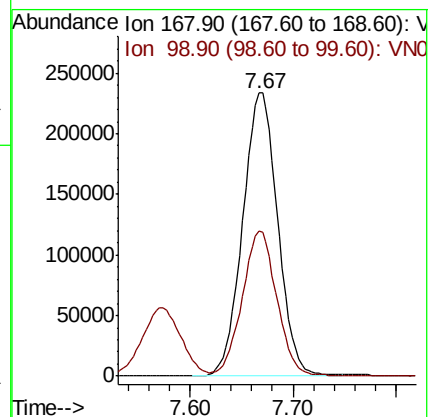
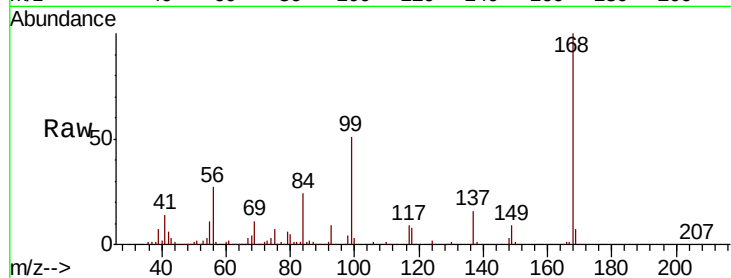
99 50.8 40.0 60.0

Manual Integrations

APPROVED

MMDadoda

8/6/2018 11:38:32 AM



#2

Dichlorodifluoromethane

Concen: 19.42 ug/l

RT: 1.85 min Scan# 81

Delta R.T. -0.00 min

Lab File: VN050315.D

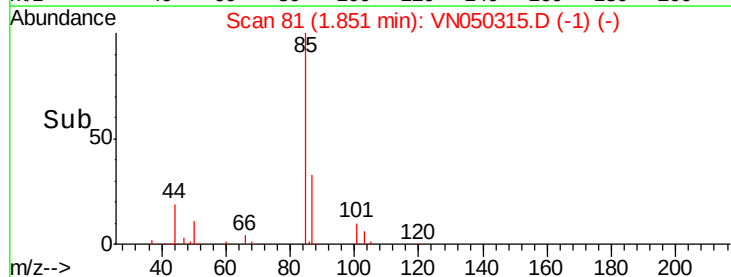
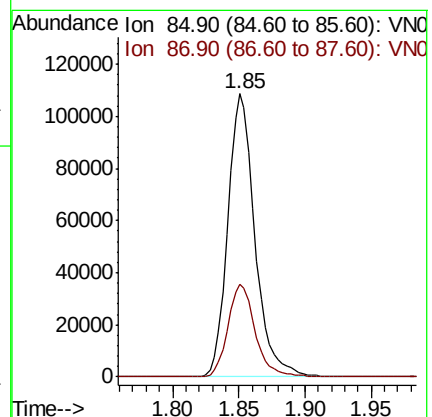
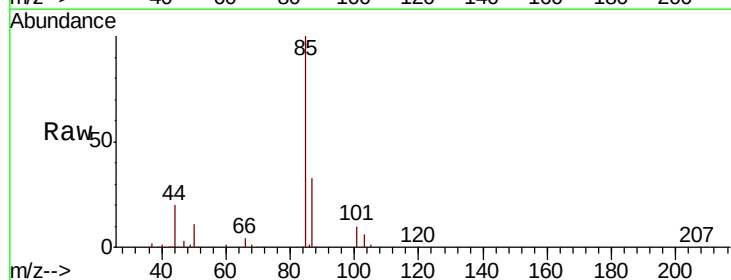
Acq: 3 Aug 2018 16:12

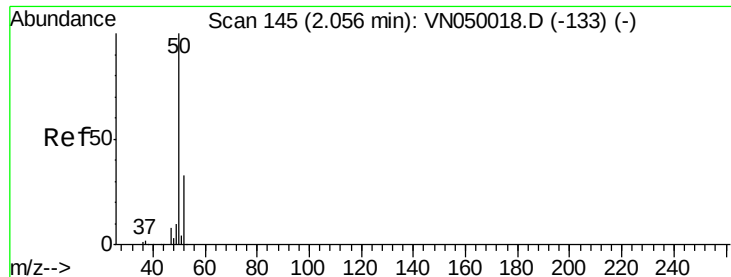
Tgt Ion: 85 Resp: 154106

Ion Ratio Lower Upper

85 100

87 32.7 16.1 48.3





#3

Chloromethane

Concen: 17.67 ug/l

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN050315.D

Acq: 3 Aug 2018 16:12

Instrument :

MSVOA_N

ClientSampleId :

VN0803WBSD02

Tot Ion: 50 Resp: 152409

Ion Ratio Lower Upper

50 100

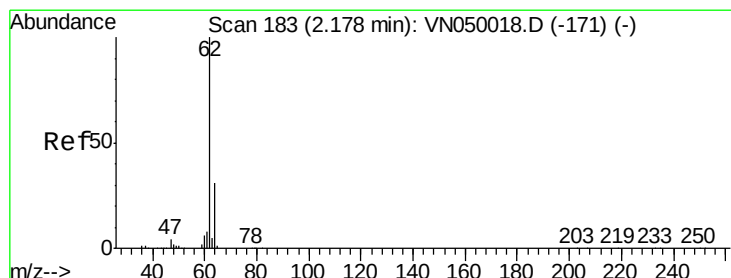
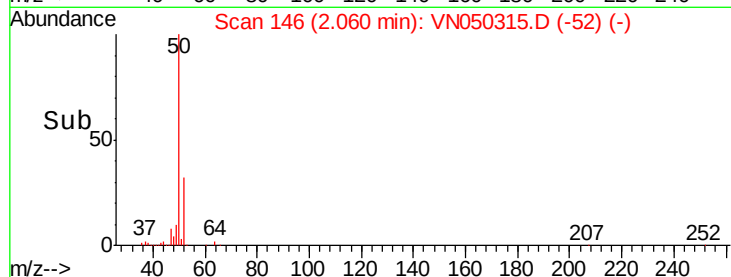
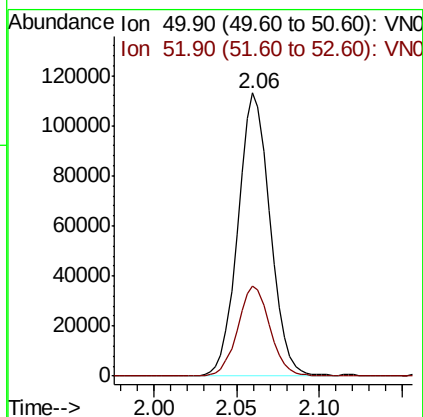
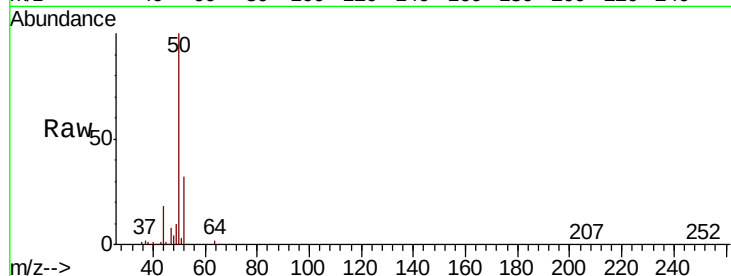
52 31.9 25.9 38.9

Manual Integrations

APPROVED

MMDadoda

8/6/2018 11:38:32 AM



#4

Vinyl Chloride

Concen: 18.09 ug/l

RT: 2.18 min Scan# 184

Delta R.T. 0.00 min

Lab File: VN050315.D

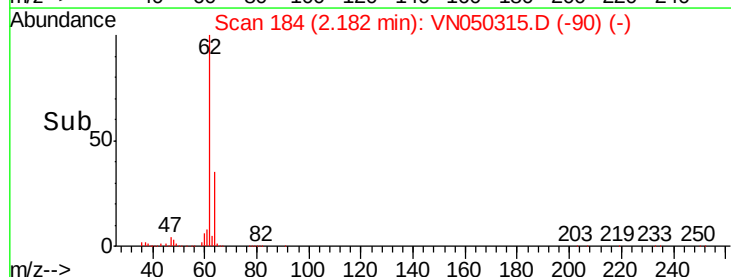
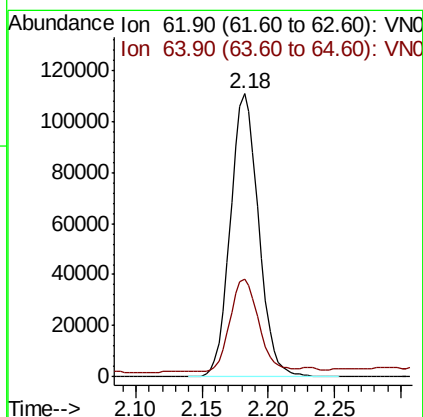
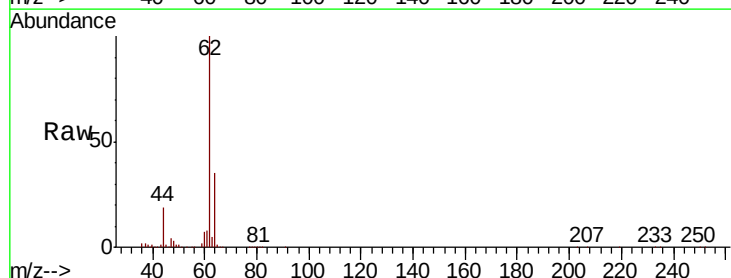
Acq: 3 Aug 2018 16:12

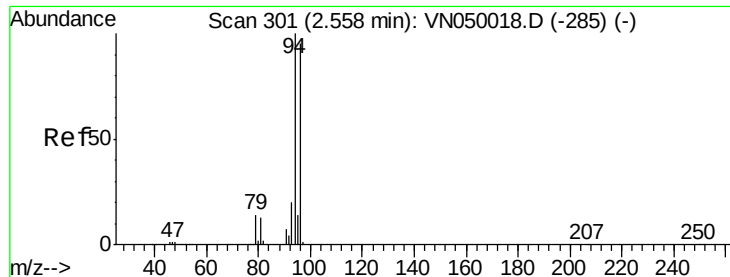
Tgt Ion: 62 Resp: 164263

Ion Ratio Lower Upper

62 100

64 32.8 24.7 37.1





#5

Bromomethane

Concen: 13.85 ug/l

RT: 2.56 min Scan# 302

Delta R.T. 0.01 min

Lab File: VN050315.D

Acq: 3 Aug 2018 16:12

Instrument :

MSVOA_N

ClientSampleId :

VN0803WBSD02

Tot Ion: 94 Resp: 73497

Ion Ratio Lower Upper

94 100

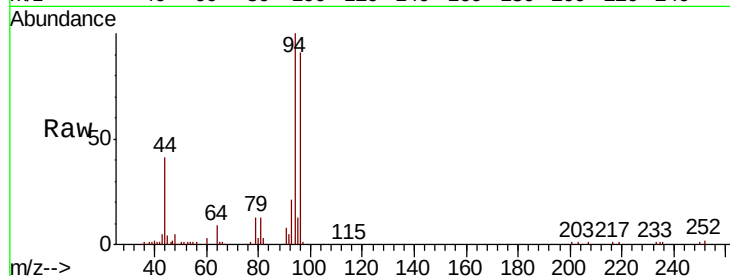
96 90.6 74.6 112.0

Manual Integrations

APPROVED

MMDadoda

8/6/2018 11:38:32 AM



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

2.56

40000

30000

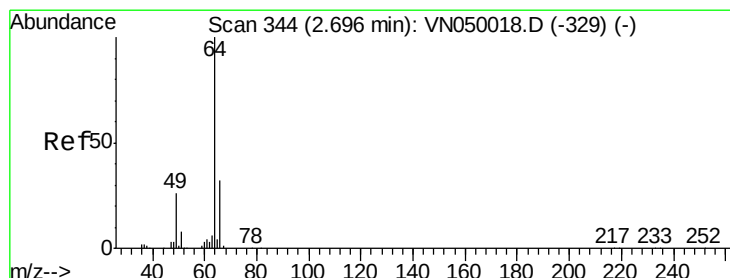
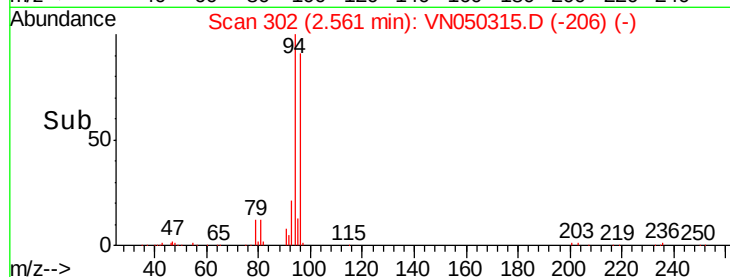
20000

10000

0

Time-->

2.50 2.55 2.60 2.65



#6

Chloroethane

Concen: 18.35 ug/l

RT: 2.70 min Scan# 344

Delta R.T. 0.00 min

Lab File: VN050315.D

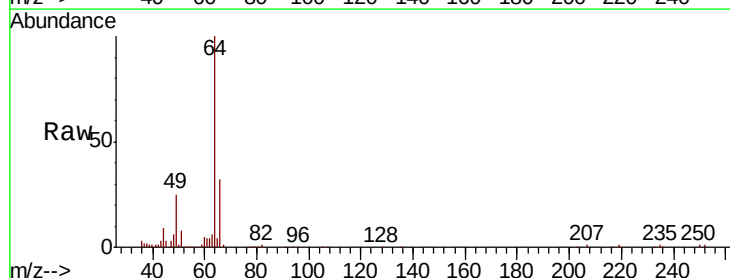
Acq: 3 Aug 2018 16:12

Tgt Ion: 64 Resp: 100089

Ion Ratio Lower Upper

64 100

66 33.8 25.3 37.9



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0

2.70

60000

50000

40000

30000

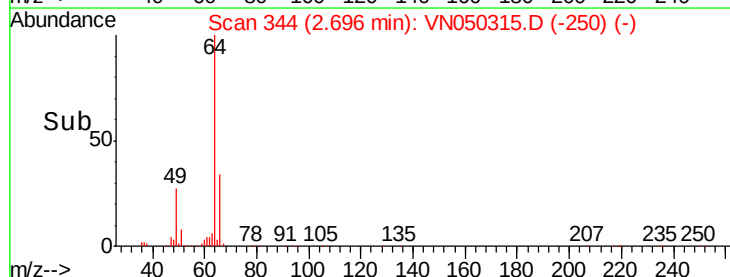
20000

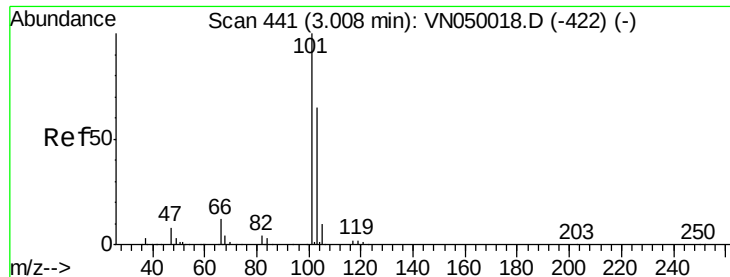
10000

0

Time-->

2.65 2.70 2.75 2.80





#7

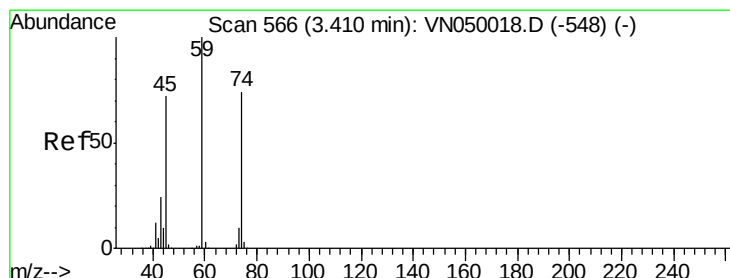
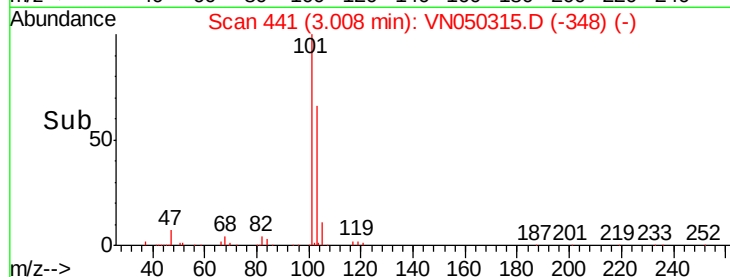
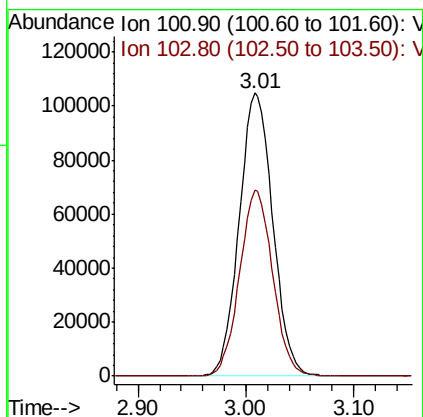
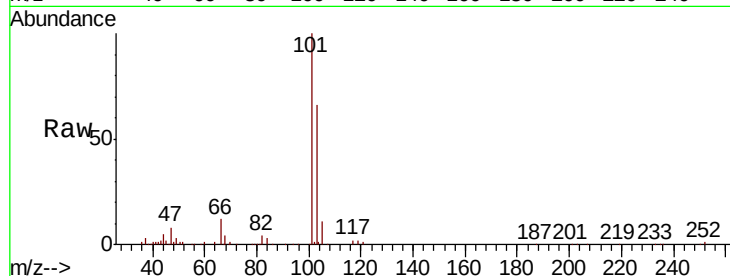
Trichlorofluoromethane
Concen: 19.35 ug/l
RT: 3.01 min Scan# 441
Delta R.T. 0.00 min
Lab File: VN050315.D
Acq: 3 Aug 2018 16:12

Instrument :
MSVOA_N
ClientSampleId :
VN0803WBSD02

Tot Ion	Ratio	Lower	Upper
101	100		
103	65.6	51.7	77.5

Manual Integrations
APPROVED

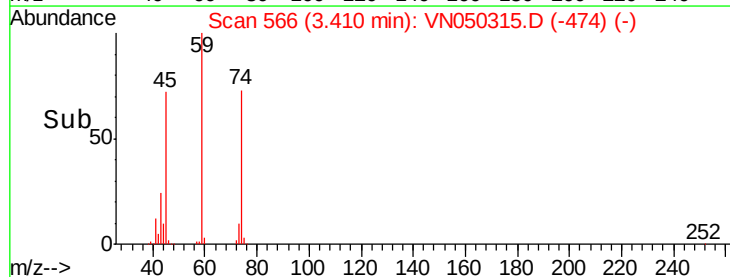
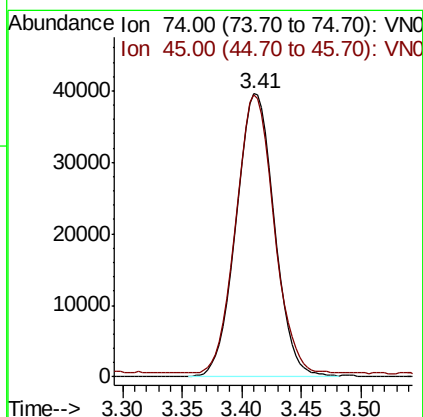
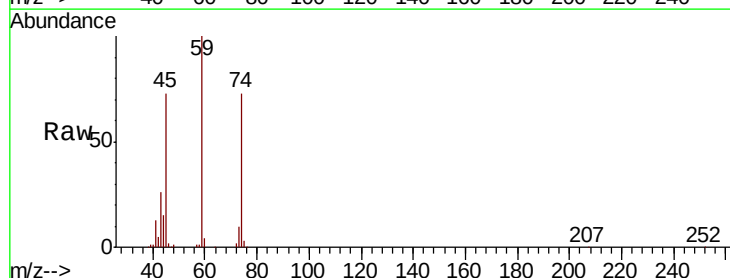
MMDadoda
8/6/2018 11:38:32 AM

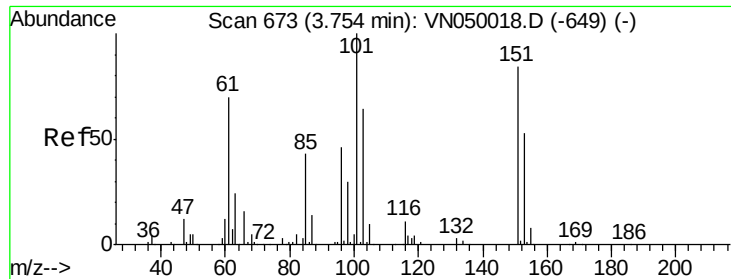


#8

Diethyl Ether
Concen: 22.57 ug/l
RT: 3.41 min Scan# 566
Delta R.T. -0.00 min
Lab File: VN050315.D
Acq: 3 Aug 2018 16:12

Tgt Ion	Ratio	Lower	Upper
74	100		
45	97.3	47.6	142.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.02 ug/l

RT: 3.75 min Scan# 673

Delta R.T. 0.00 min

Lab File: VN050315.D

Acq: 3 Aug 2018 16:12

Instrument :

MSVOA_N

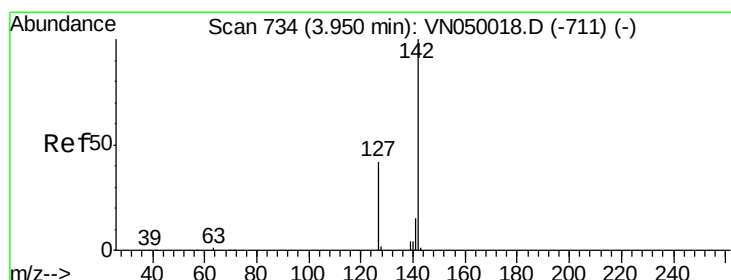
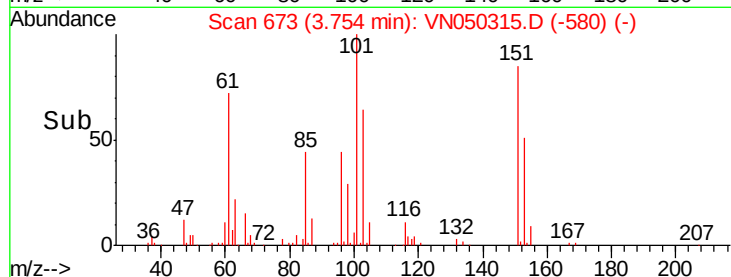
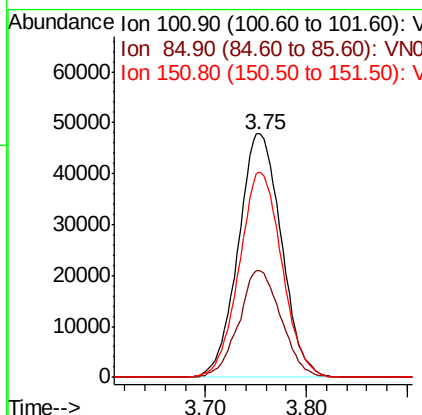
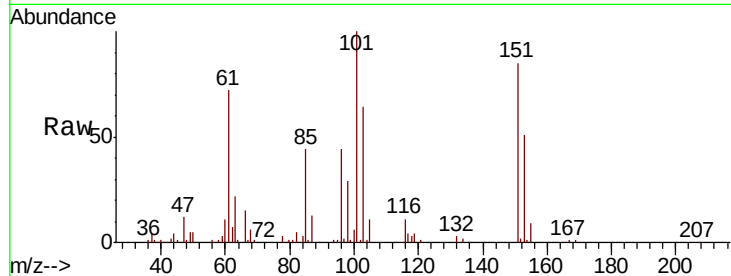
ClientSampleId :

VN0803WBSD02

Tot Ion:	101	Resp:	141613
Ion Ratio	Lower	Upper	
101	100		
85	43.1	34.2	51.2
151	83.5	66.3	99.5

Manual Integrations
APPROVED

MMDadoda
8/6/2018 11:38:32 AM



#10

Methyl Iodide

Concen: 7.96 ug/l

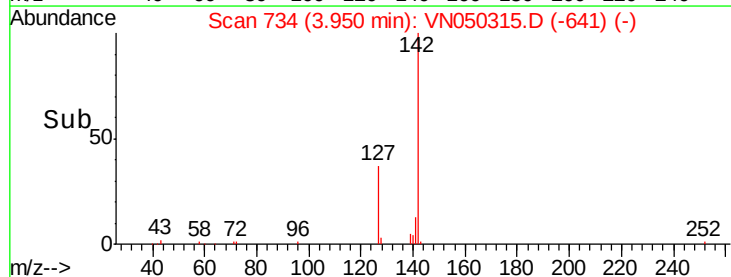
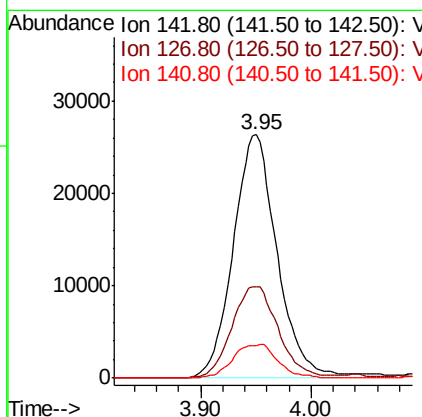
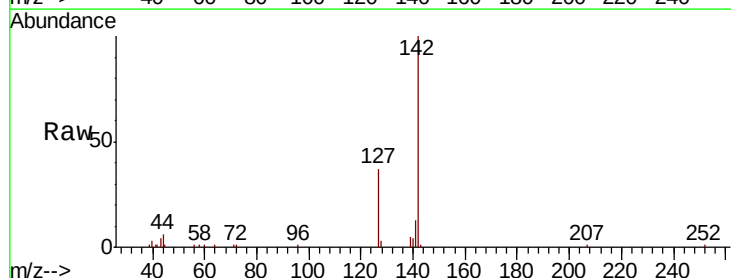
RT: 3.95 min Scan# 734

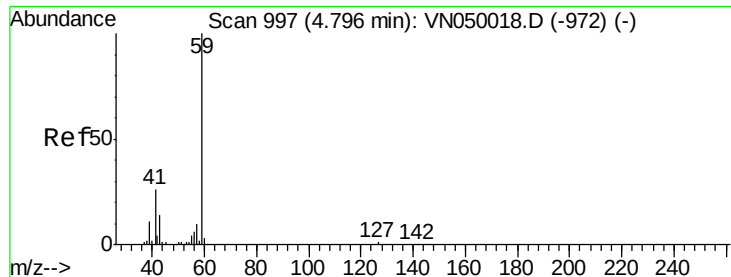
Delta R.T. 0.00 min

Lab File: VN050315.D

Acq: 3 Aug 2018 16:12

Tgt Ion:	142	Resp:	72326
Ion Ratio	Lower	Upper	
142	100		
127	40.0	33.4	50.2
141	14.2	11.6	17.4





#11

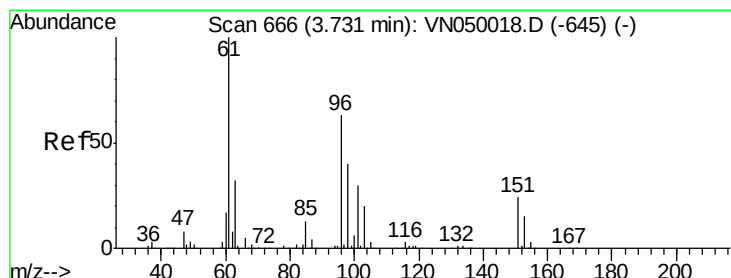
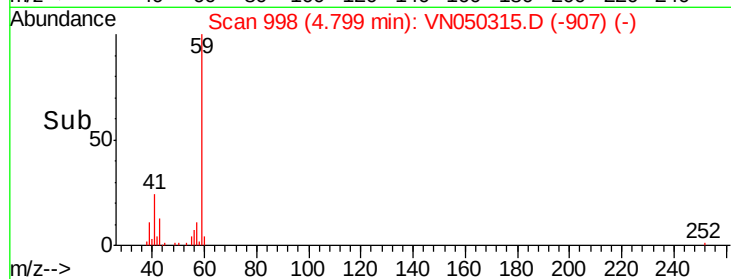
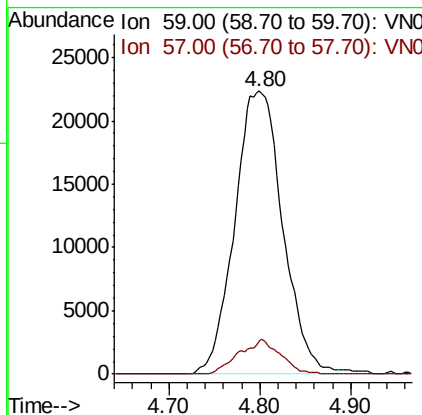
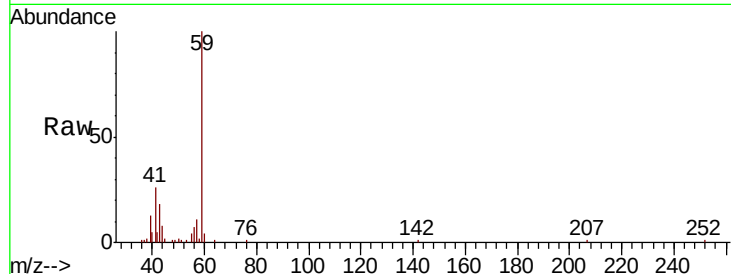
Tert butyl alcohol
 Concen: 144.38 ug/l
 RT: 4.80 min Scan# 998
 Delta R.T. -0.01 min
 Lab File: VN050315.D
 Acq: 3 Aug 2018 16:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0803WBSD02

Tot Ion	59	Resp	81844
Ion Ratio	100	Lower	Upper
57	10.7	8.5	12.7

Manual Integrations
 APPROVED

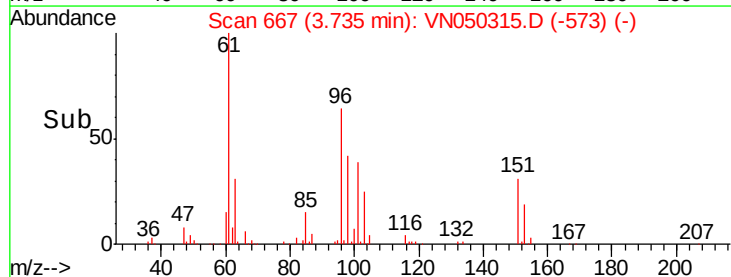
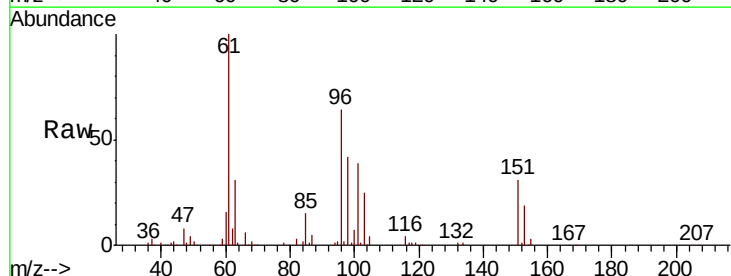
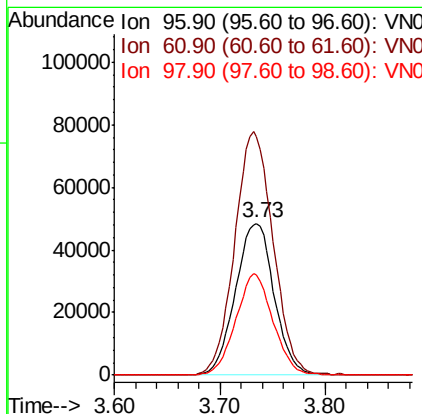
MMDadoda
 8/6/2018 11:38:32 AM

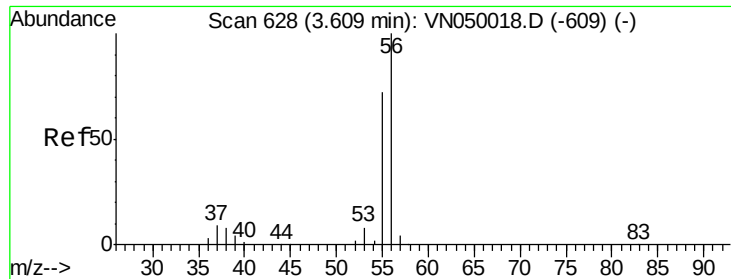


#12

1,1-Dichloroethene
 Concen: 19.46 ug/l
 RT: 3.73 min Scan# 667
 Delta R.T. 0.00 min
 Lab File: VN050315.D
 Acq: 3 Aug 2018 16:12

Tgt Ion	96	Resp	123874
Ion Ratio	100	Lower	Upper
61	157.1	124.4	186.6
98	65.9	48.3	72.5





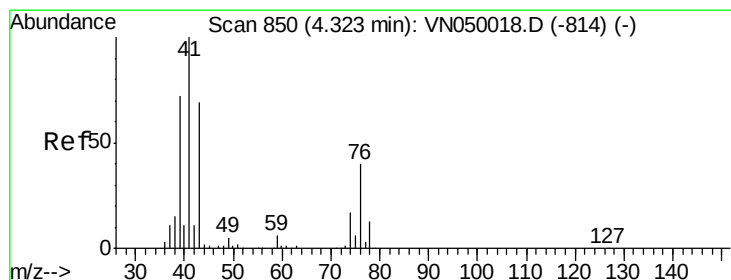
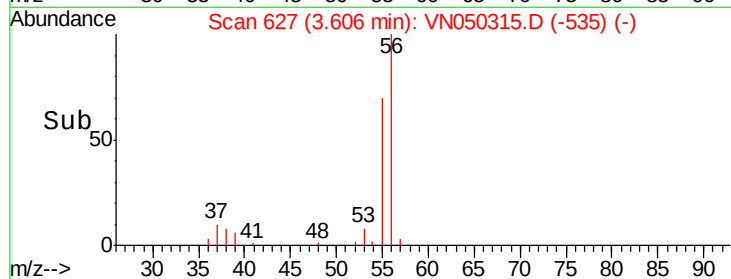
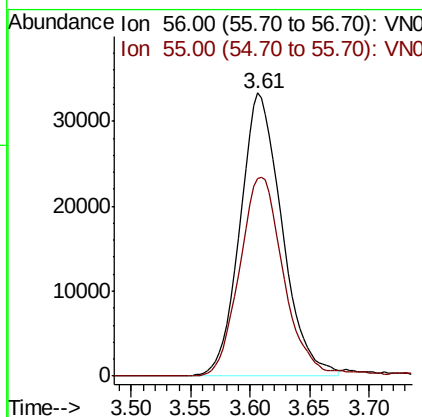
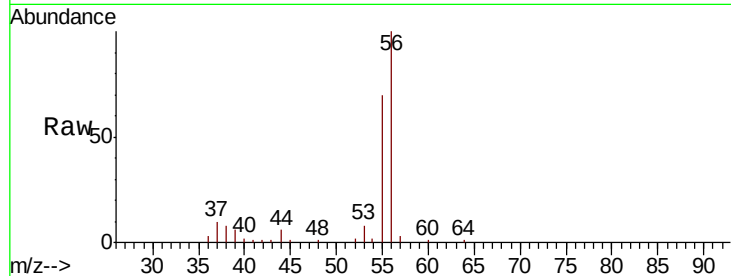
#13
Acrolein
Concen: 178.38 ug/l
RT: 3.61 min Scan# 627
Delta R.T. -0.00 min
Lab File: VN050315.D
Acq: 3 Aug 2018 16:12

Instrument :
MSVOA_N
ClientSampleId :
VN0803WBSD02

Tot Ion	Ion	Ratio	Lower	Upper
56	100			
55	74.5	55.8	83.6	

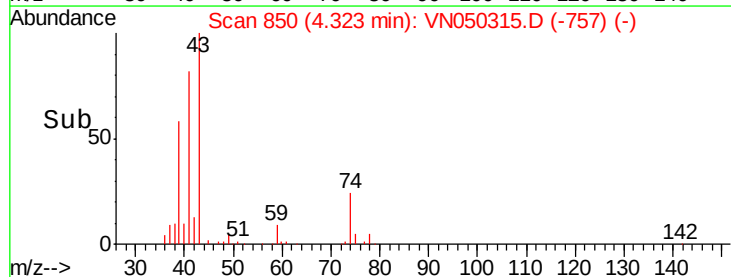
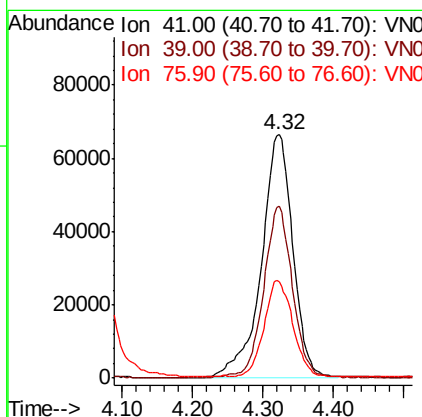
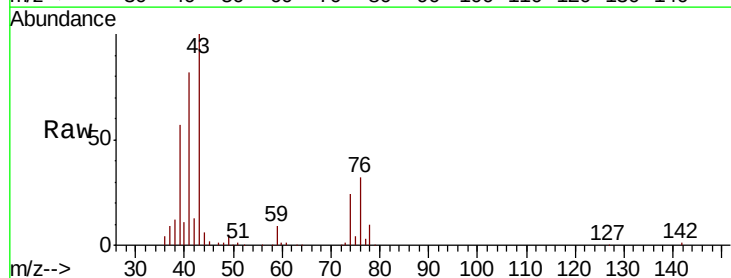
Manual Integrations
APPROVED

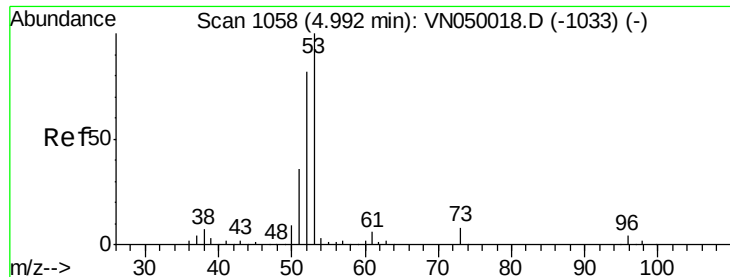
MMDadoda
8/6/2018 11:38:32 AM



#14
Allyl chloride
Concen: 21.10 ug/l
RT: 4.32 min Scan# 850
Delta R.T. 0.00 min
Lab File: VN050315.D
Acq: 3 Aug 2018 16:12

Tgt Ion	Ion	Ratio	Lower	Upper
41	100			
39	64.8	54.2	81.4	
76	35.9	29.0	43.6	





#15

Acrylonitrile

Concen: 125.78 ug/l

RT: 4.99 min Scan# 1058

Delta R.T. -0.00 min

Lab File: VN050315.D

Acq: 3 Aug 2018 16:12

Instrument :

MSVOA_N

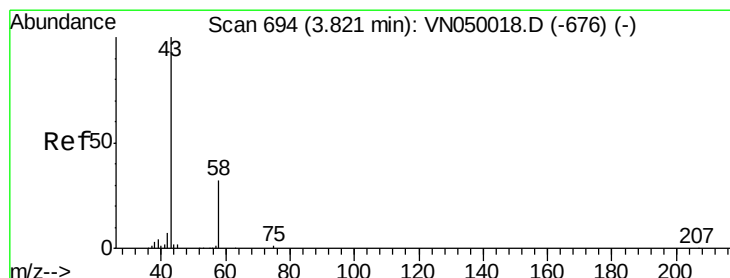
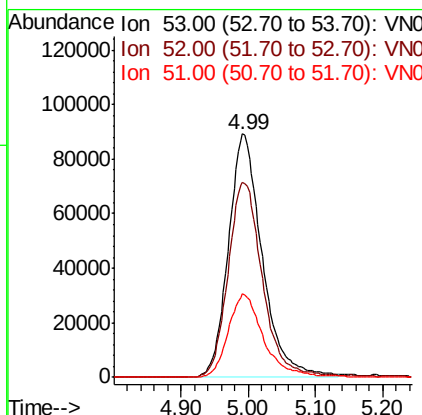
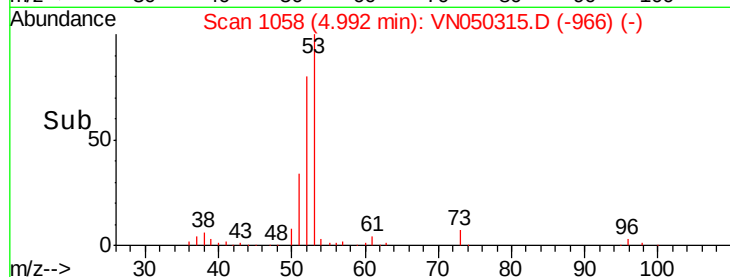
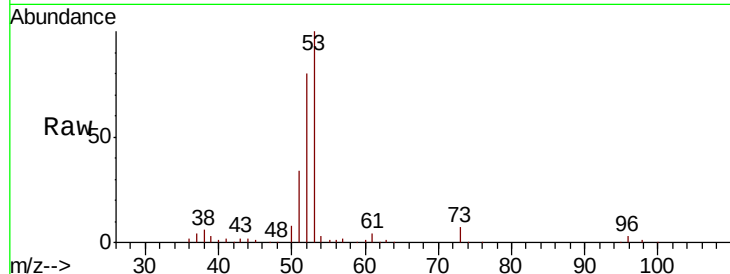
ClientSampleId :

VN0803WBSD02

Tot Ion:	53	Resp:	311083
Ion	Ratio	Lower	Upper
53	100		
52	81.7	66.2	99.2
51	35.6	29.3	43.9

Manual Integrations
APPROVED

MMDadoda
8/6/2018 11:38:32 AM



#16

Acetone

Concen: 148.16 ug/l

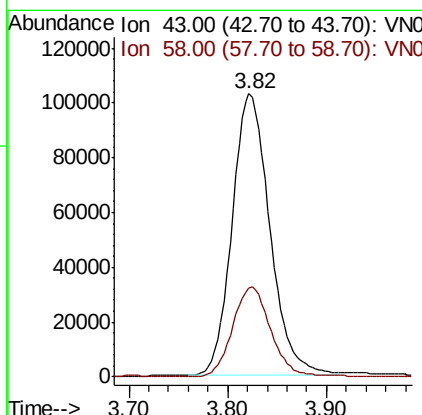
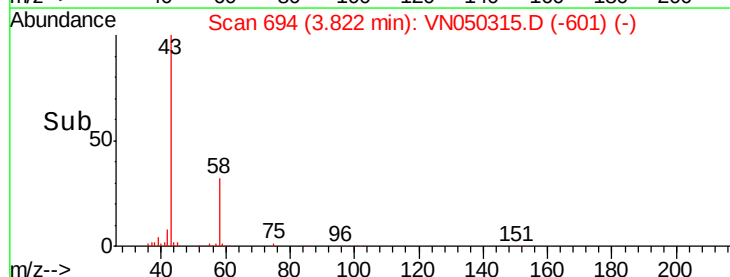
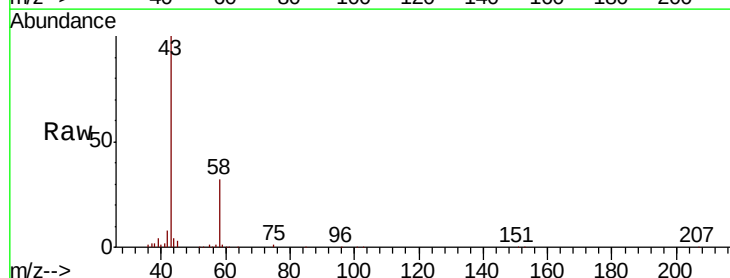
RT: 3.82 min Scan# 694

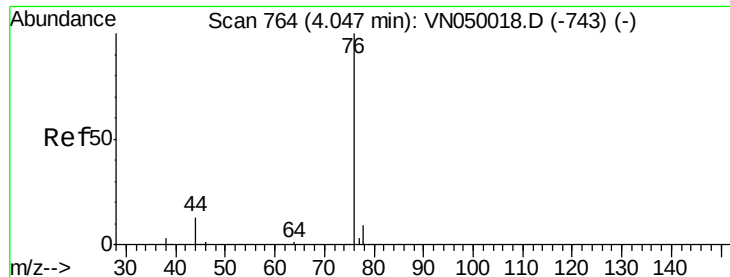
Delta R.T. -0.00 min

Lab File: VN050315.D

Acq: 3 Aug 2018 16:12

Tgt Ion:	43	Resp:	272078
Ion	Ratio	Lower	Upper
43	100		
58	31.5	25.8	38.8





#17

Carbon Disulfide

Concen: 16.65 ug/l

RT: 4.05 min Scan# 765

Delta R.T. 0.00 min

Lab File: VN050315.D

Acq: 3 Aug 2018 16:12

Instrument :

MSVOA_N

ClientSampleId :

VN0803WBSD02

Tot Ion: 76 Resp: 324649

Ion Ratio Lower Upper

76 100

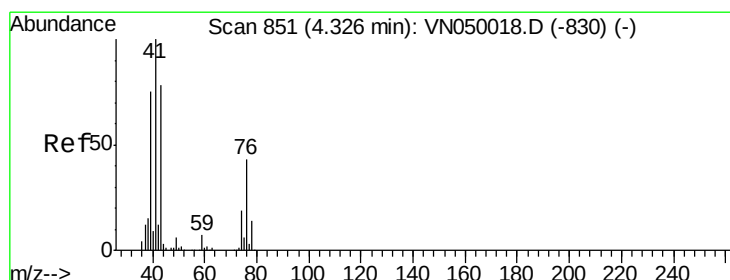
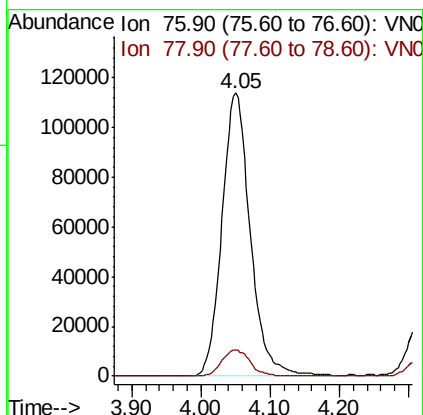
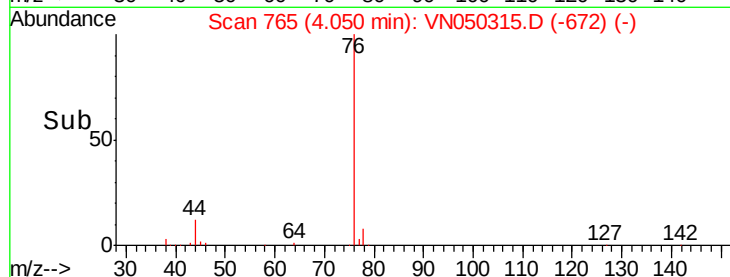
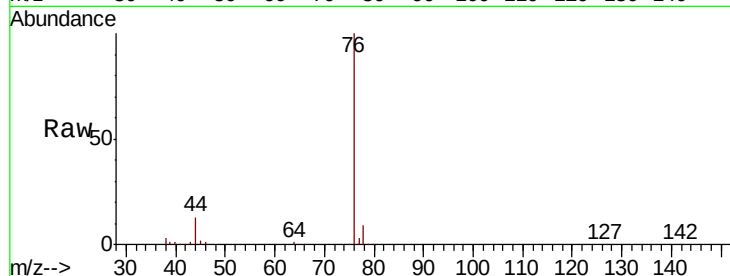
78 9.4 7.3 10.9

Manual Integrations

APPROVED

MMDadoda

8/6/2018 11:38:32 AM



#18

Methyl Acetate

Concen: 34.84 ug/l

RT: 4.33 min Scan# 852

Delta R.T. -0.00 min

Lab File: VN050315.D

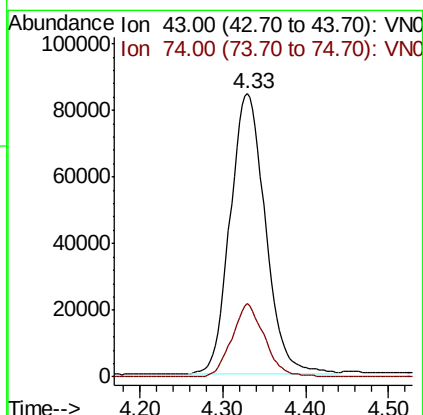
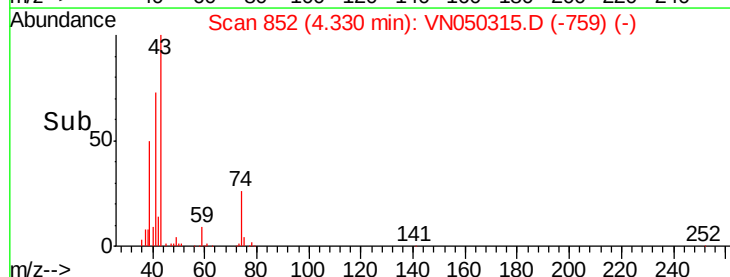
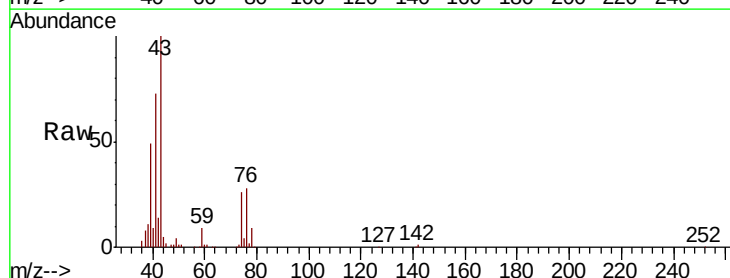
Acq: 3 Aug 2018 16:12

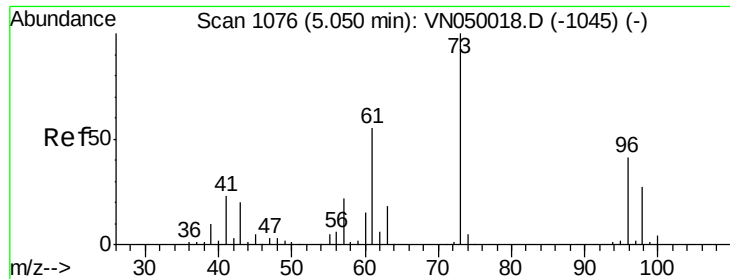
Tgt Ion: 43 Resp: 249424

Ion Ratio Lower Upper

43 100

74 24.2 19.2 28.8





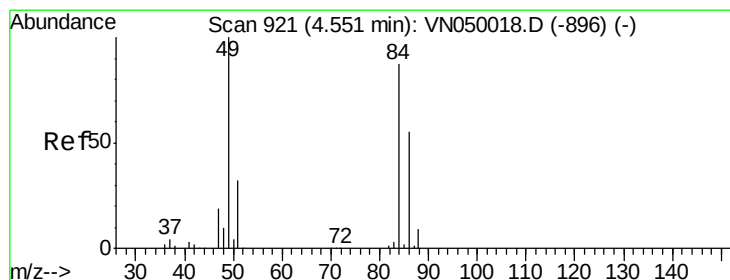
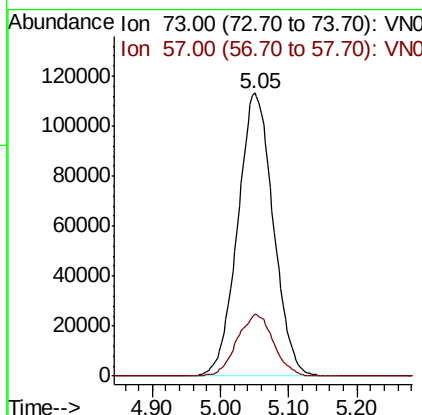
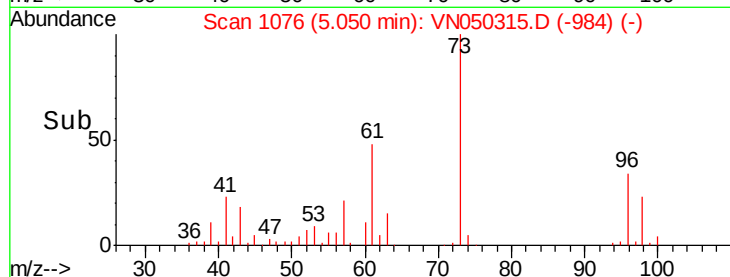
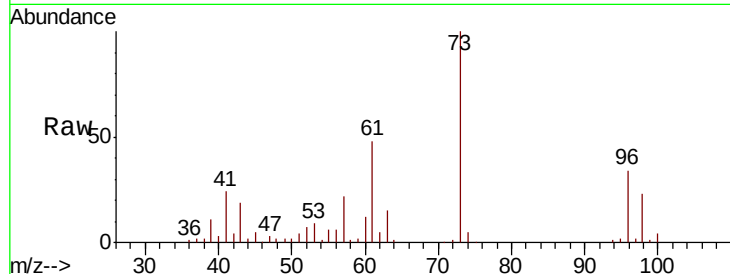
#19
Methvl tert-butvl Ether
Concen: 24.18 ug/l
RT: 5.05 min Scan# 1076
Delta R.T. -0.00 min
Lab File: VN050315.D
Acq: 3 Aug 2018 16:12

Instrument :
MSVOA_N
ClientSampleId :
VN0803WBSD02

Tot Ion: 73 Resp: 410124
Ion Ratio Lower Upper
73 100
57 21.8 18.0 27.0

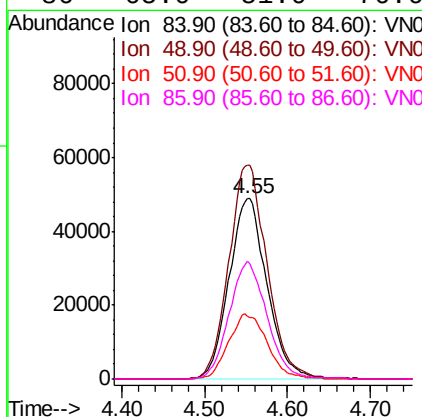
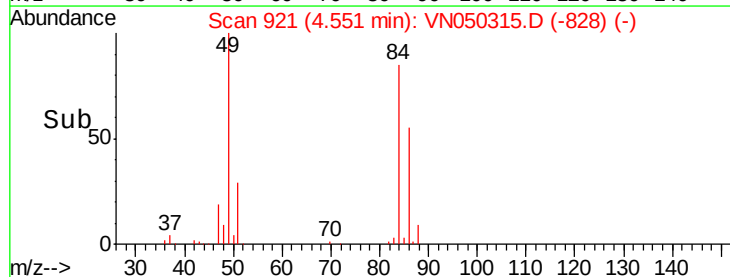
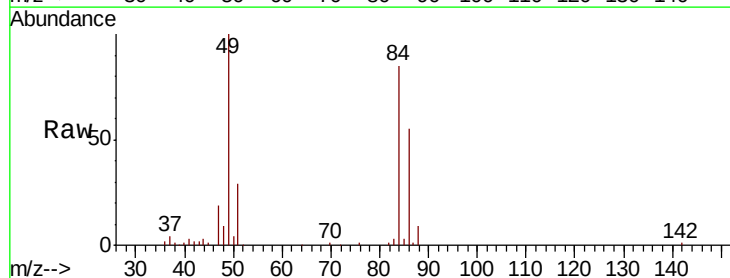
Manual Integrations
APPROVED

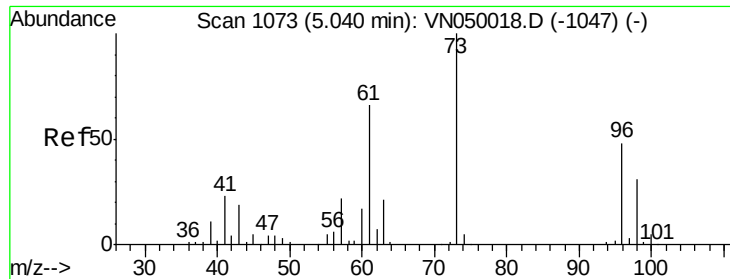
MMDadoda
8/6/2018 11:38:32 AM



#20
Methylene Chloride
Concen: 22.07 ug/l
RT: 4.55 min Scan# 921
Delta R.T. 0.00 min
Lab File: VN050315.D
Acq: 3 Aug 2018 16:12

Tgt Ion: 84 Resp: 155537
Ion Ratio Lower Upper
84 100
49 117.8 94.8 142.2
51 34.8 28.3 42.5
86 65.0 51.0 76.6





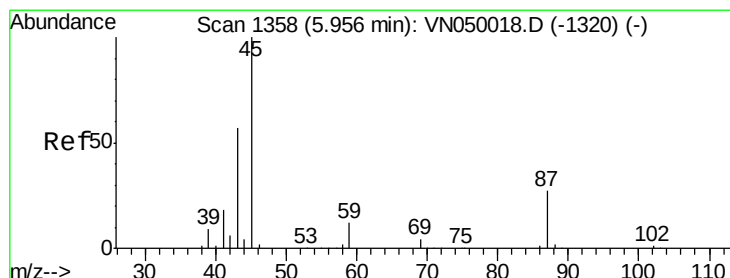
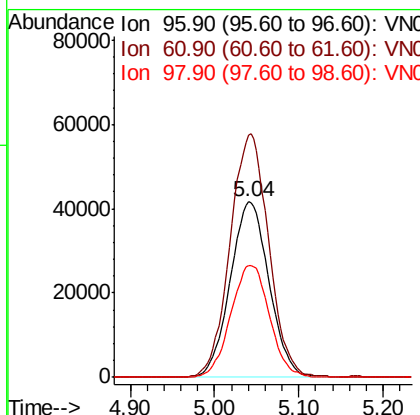
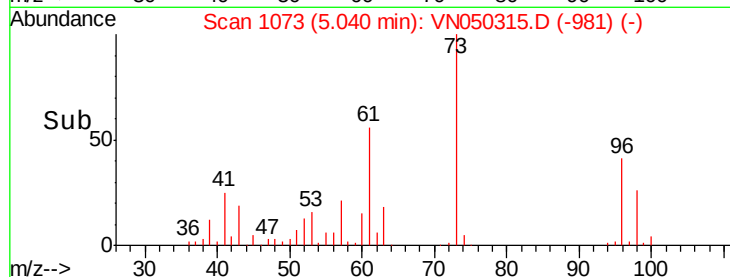
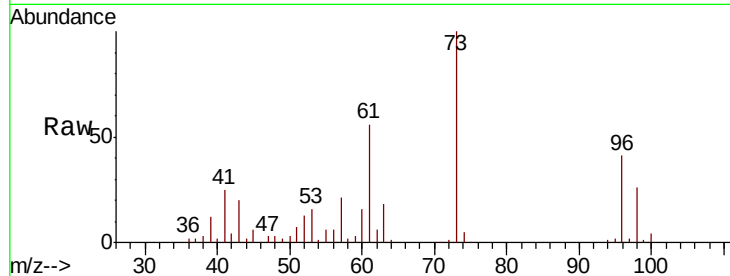
#21
trans-1,2-Dichloroethene
Concen: 19.82 ug/l
RT: 5.04 min Scan# 1073
Delta R.T. -0.00 min
Lab File: VN050315.D
Acq: 3 Aug 2018 16:12

Instrument :
MSVOA_N
ClientSampleId :
VN0803WBSD02

Tot Ion	96	Resp	133670
Ion Ratio	Lower	Upper	
96	100		
61	137.6	110.7	166.1
98	64.0	51.6	77.4

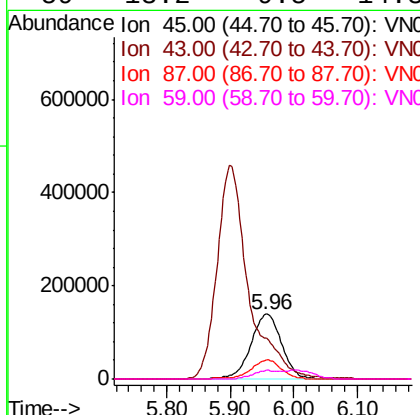
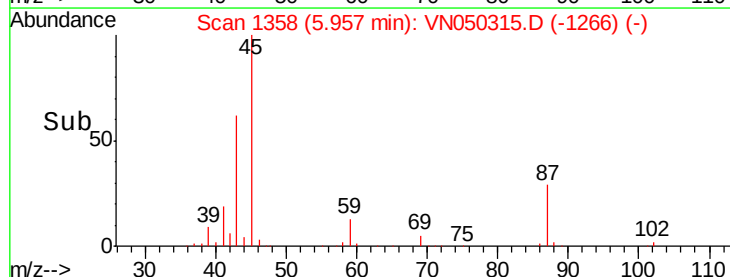
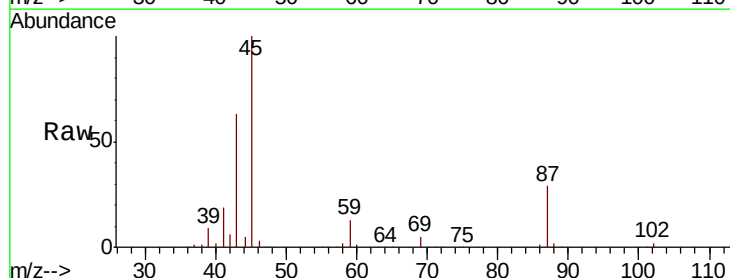
Manual Integrations
APPROVED

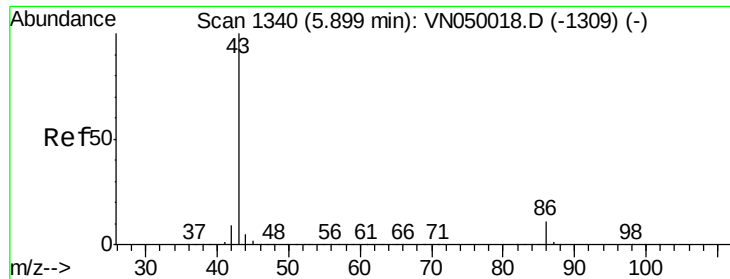
MMDadoda
8/6/2018 11:38:32 AM



#22
Diisopropyl ether
Concen: 24.06 ug/l
RT: 5.96 min Scan# 1358
Delta R.T. -0.00 min
Lab File: VN050315.D
Acq: 3 Aug 2018 16:12

Tgt Ion	45	Resp	470746
Ion Ratio	Lower	Upper	
45	100		
43	61.5	45.7	68.5
87	29.0	22.7	34.1
59	13.2	9.5	14.3





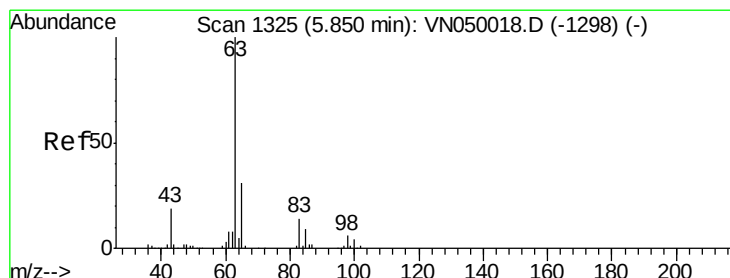
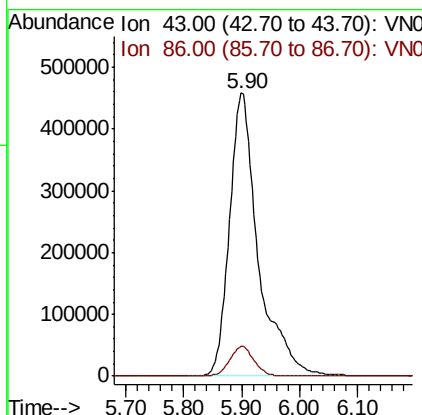
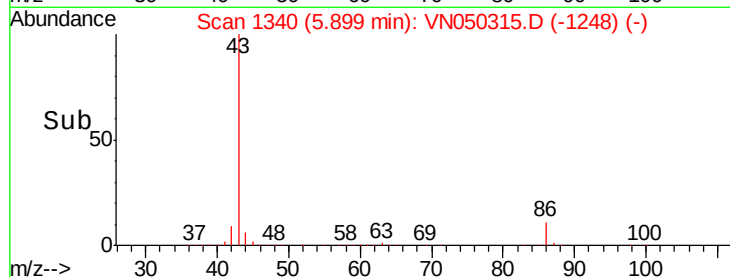
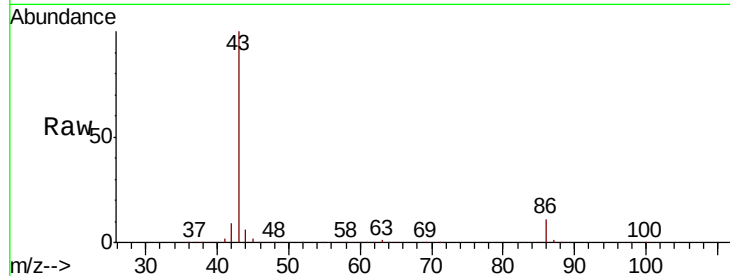
#23
 Vinyl Acetate
 Concen: 114.43 ug/l
 RT: 5.90 min Scan# 1340
 Delta R.T. -0.00 min
 Lab File: VN050315.D
 Acq: 3 Aug 2018 16:12

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0803WBSD02

Tot Ion: 43 Resp: 1582277
 Ion Ratio Lower Upper
 43 100
 86 10.6 8.6 13.0

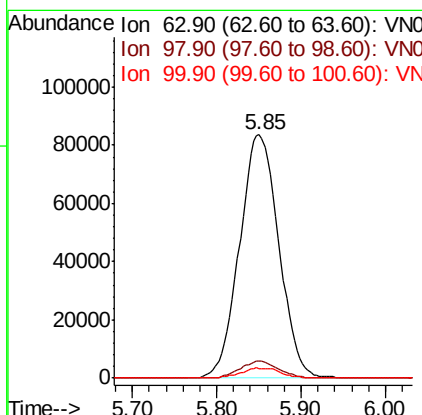
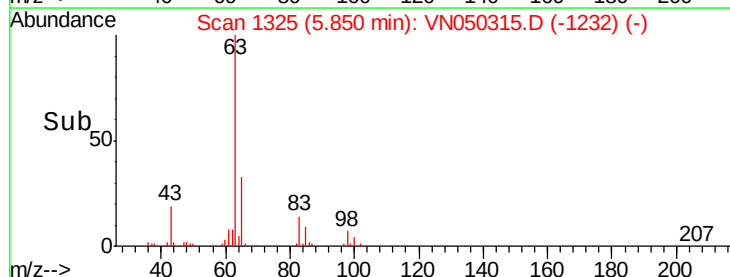
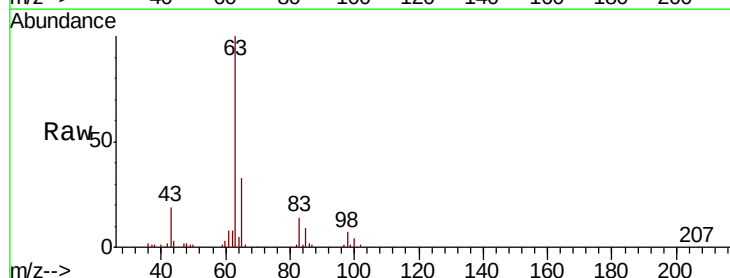
Manual Integrations
 APPROVED

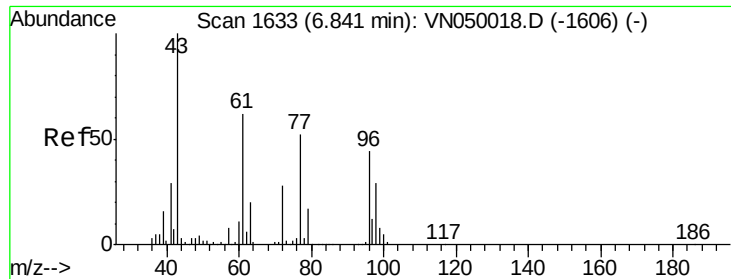
MMDadoda
 8/6/2018 11:38:32 AM



#24
 1,1-Dichloroethane
 Concen: 21.14 ug/l
 RT: 5.85 min Scan# 1325
 Delta R.T. 0.00 min
 Lab File: VN050315.D
 Acq: 3 Aug 2018 16:12

Tgt Ion: 63 Resp: 270478
 Ion Ratio Lower Upper
 63 100
 98 7.0 3.3 9.8
 100 4.1 2.1 6.3





#25

2-Butanone

Concen: 130.38 ug/l

RT: 6.84 min Scan# 1633

Delta R.T. -0.00 min

Lab File: VN050315.D

Acq: 3 Aug 2018 16:12

Instrument :

MSVOA_N

ClientSampled :

VN0803WBSD02

Tot Ion: 43 Resp: 383148

Ion Ratio Lower Upper

43 100

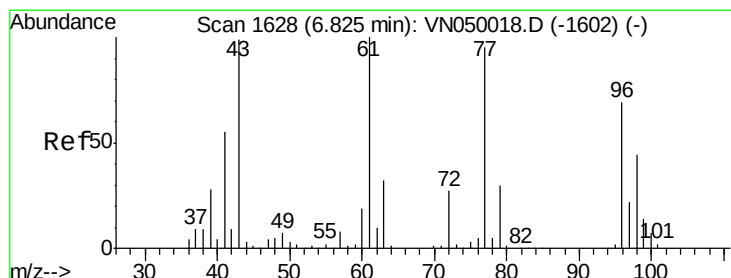
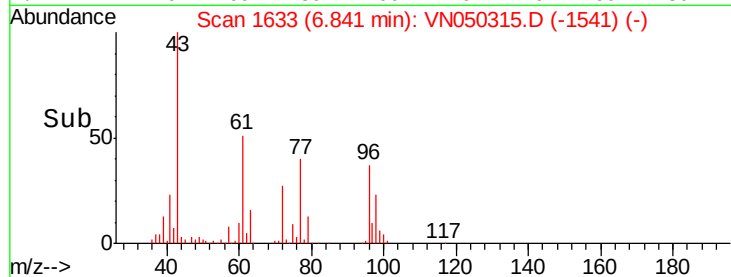
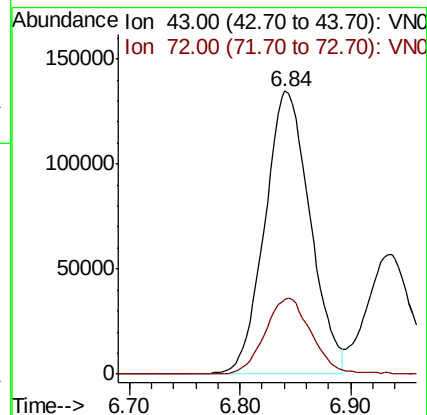
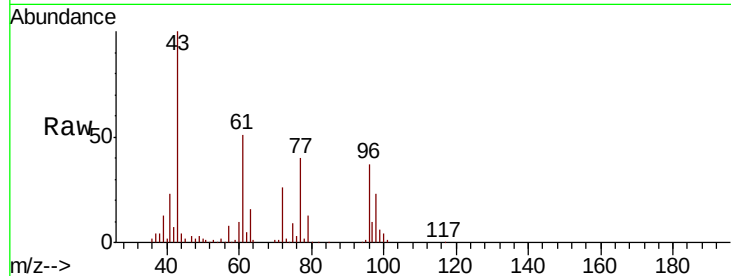
72 26.5 21.5 32.3

Manual Integrations

APPROVED

MMDadoda

8/6/2018 11:38:32 AM



#26

2,2-Dichloropropane

Concen: 21.01 ug/l

RT: 6.83 min Scan# 1629

Delta R.T. 0.00 min

Lab File: VN050315.D

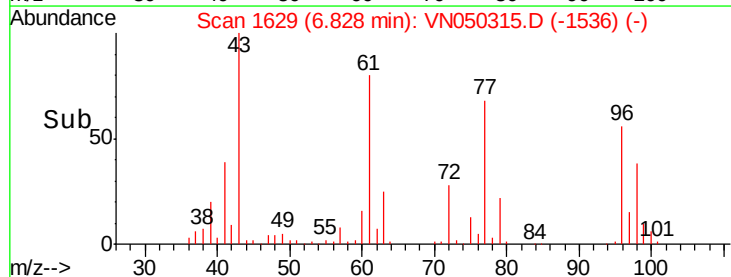
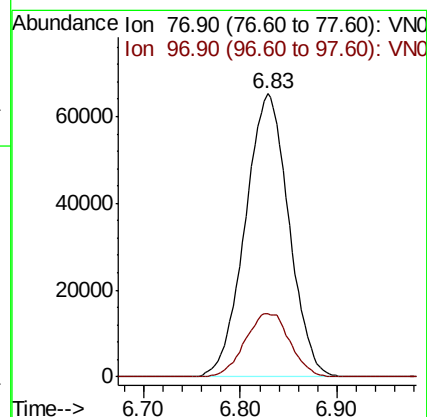
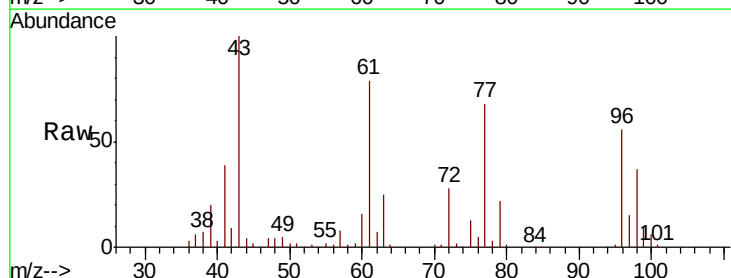
Acq: 3 Aug 2018 16:12

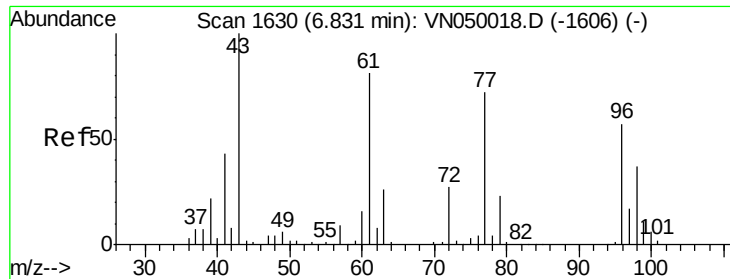
Tgt Ion: 77 Resp: 204490

Ion Ratio Lower Upper

77 100

97 23.0 11.8 35.3





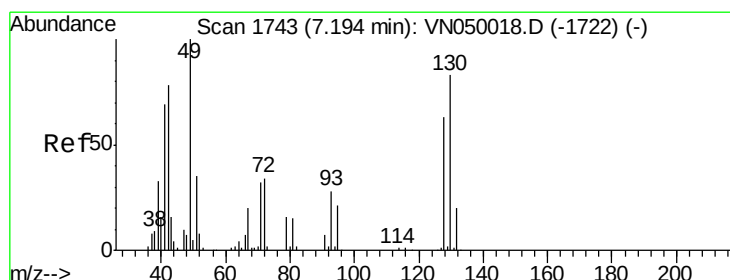
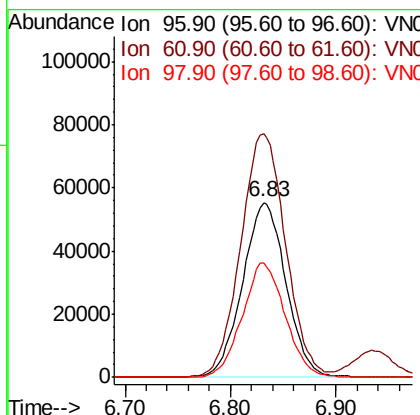
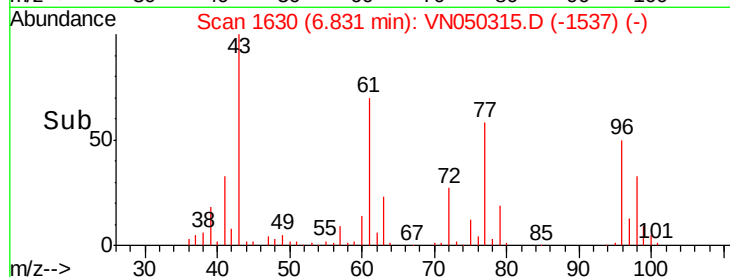
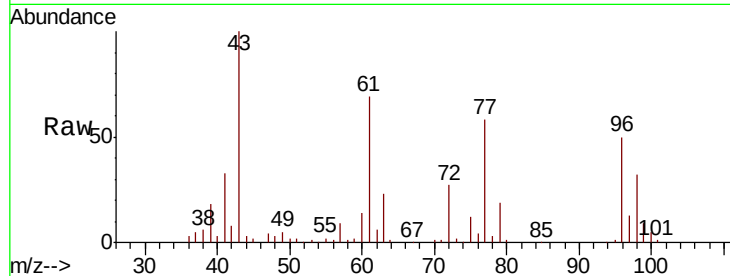
#27
 cis-1,2-Dichloroethene
 Concen: 21.79 ug/l
 RT: 6.83 min Scan# 1630
 Delta R.T. 0.00 min
 Lab File: VN050315.D
 Acq: 3 Aug 2018 16:12

Instrument :
 MSVOA_N
 ClientSampled :
 VN0803WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
96	100			
61	144.7	0.0	285.0	
98	64.8	0.0	129.2	

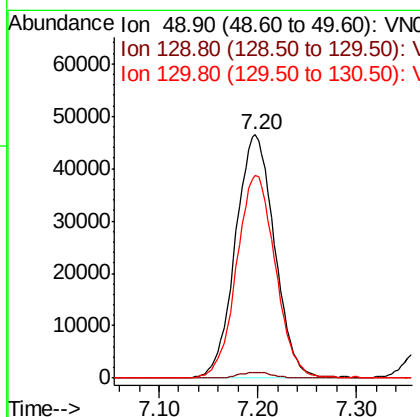
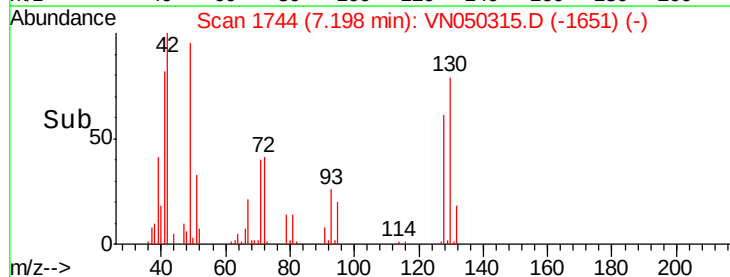
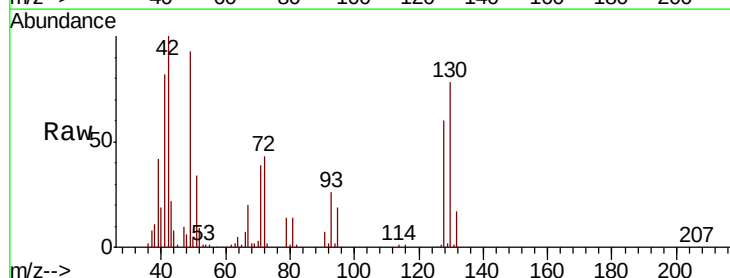
Manual Integrations
 APPROVED

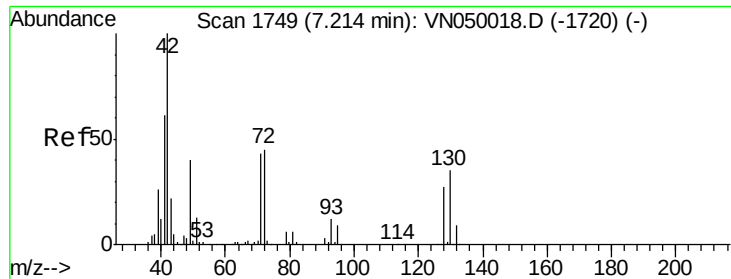
MMDadoda
 8/6/2018 11:38:32 AM



#28
 Bromochloromethane
 Concen: 21.88 ug/l
 RT: 7.20 min Scan# 1744
 Delta R.T. 0.00 min
 Lab File: VN050315.D
 Acq: 3 Aug 2018 16:12

Tgt Ion	Ratio	Resp	Lower	Upper
49	100			
129	2.0	0.0	4.0	
130	82.8	66.3	99.5	





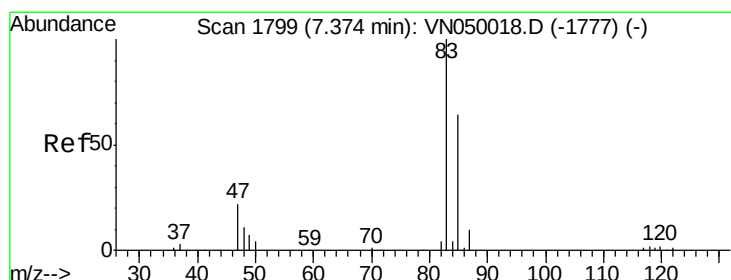
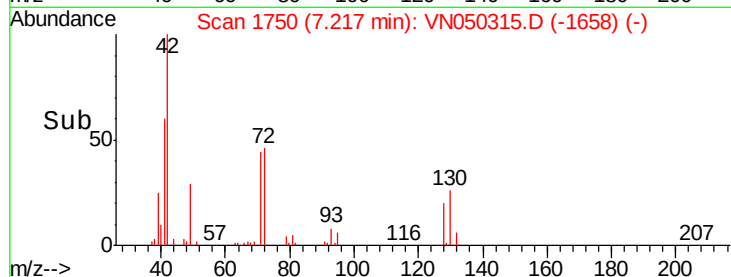
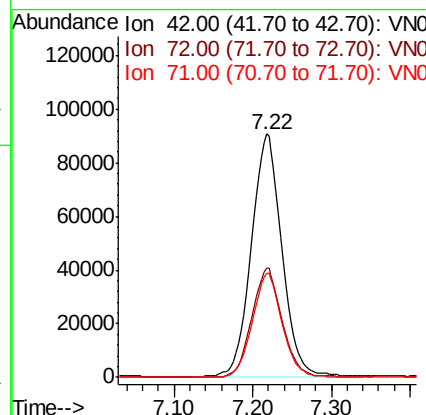
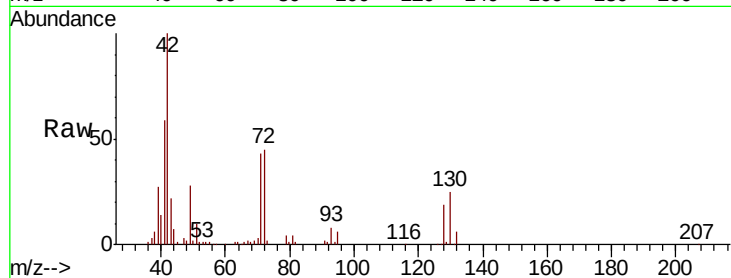
#29
Tetrahydrofuran
Concen: 131.39 ug/l
RT: 7.22 min Scan# 1750
Delta R.T. -0.00 min
Lab File: VN050315.D
Acq: 3 Aug 2018 16:12

Instrument :
MSVOA_N
ClientSampleId :
VN0803WBSD02

Tot Ion	Ratio	Lower	Upper
42	100		
72	44.5	35.9	53.9
71	41.8	33.7	50.5

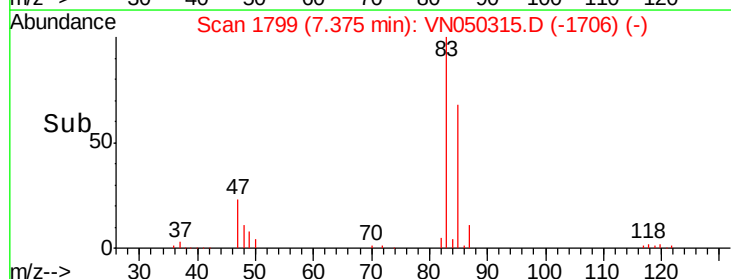
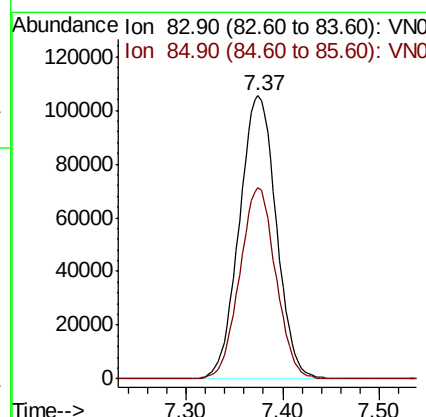
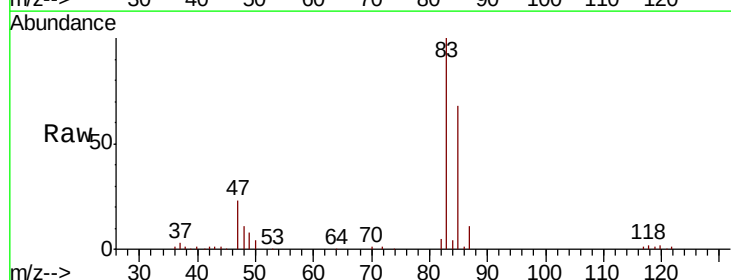
Manual Integrations
APPROVED

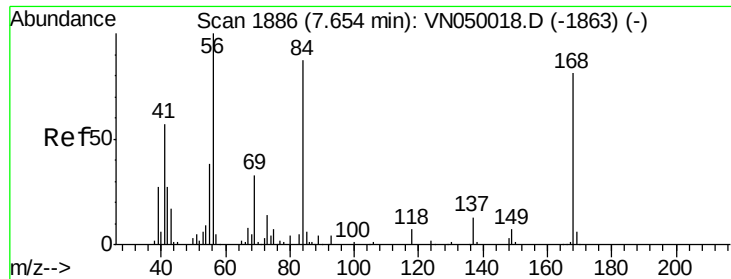
MMDadoda
8/6/2018 11:38:32 AM



#30
Chloroform
Concen: 21.47 ug/l
RT: 7.37 min Scan# 1799
Delta R.T. 0.00 min
Lab File: VN050315.D
Acq: 3 Aug 2018 16:12

Tgt Ion	Ratio	Lower	Upper
83	100		
85	67.7	52.5	78.7





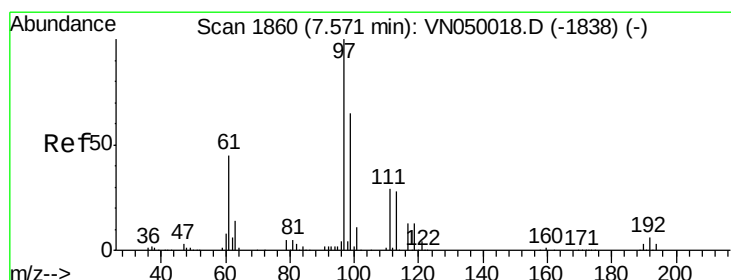
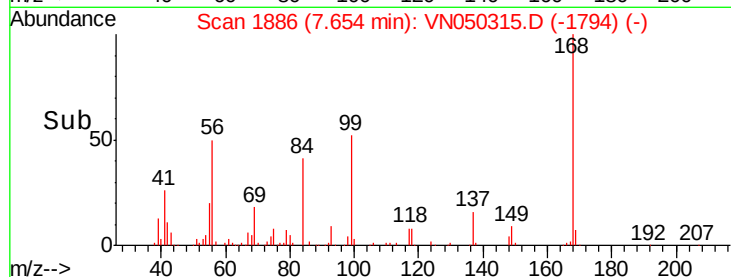
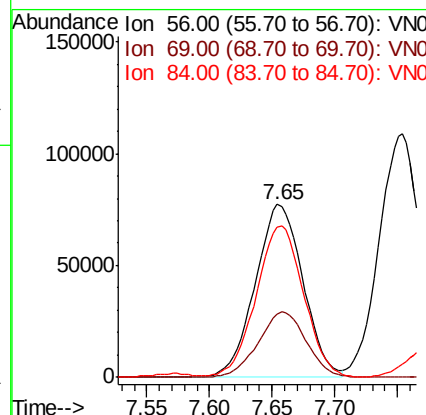
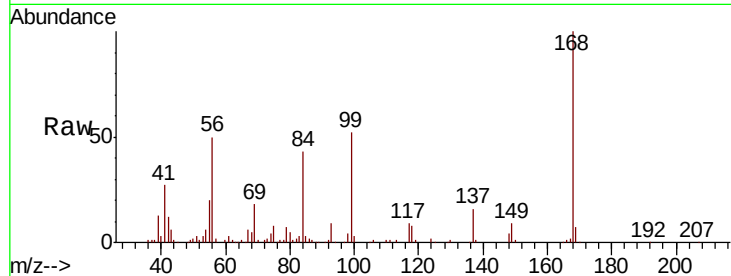
#31
Cyclohexane
Concen: 19.21 ug/l
RT: 7.65 min Scan# 1886
Delta R.T. -0.00 min
Lab File: VN050315.D
Acq: 3 Aug 2018 16:12

Instrument :
MSVOA_N
ClientSampleId :
VN0803WBSD02

Tot Ion	Ratio	Lower	Upper
56	100		
69	36.9	26.2	39.4
84	85.4	67.4	101.0

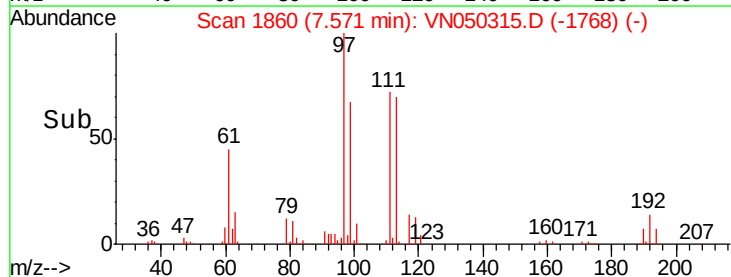
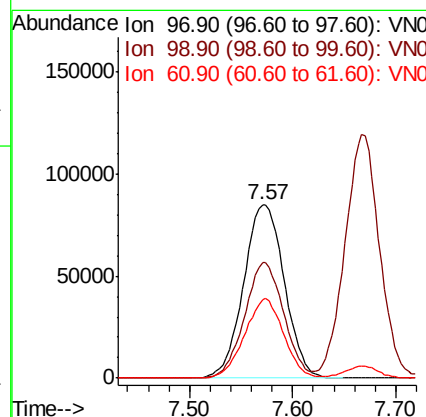
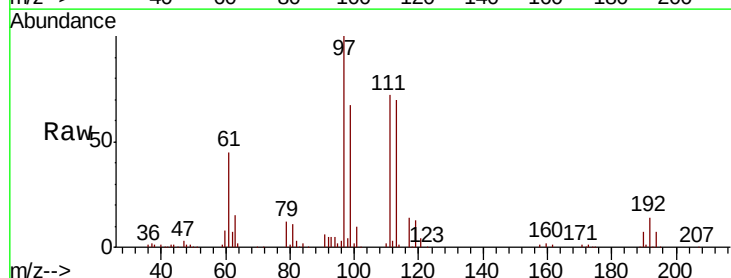
Manual Integrations
APPROVED

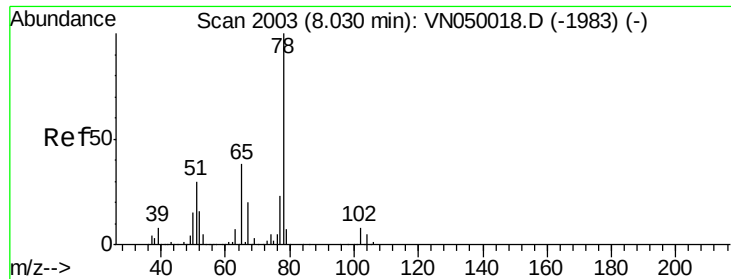
MMDadoda
8/6/2018 11:38:32 AM



#32
1,1,1-Trichloroethane
Concen: 20.84 ug/l
RT: 7.57 min Scan# 1860
Delta R.T. -0.00 min
Lab File: VN050315.D
Acq: 3 Aug 2018 16:12

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.9	51.4	77.0
61	43.7	35.4	53.0





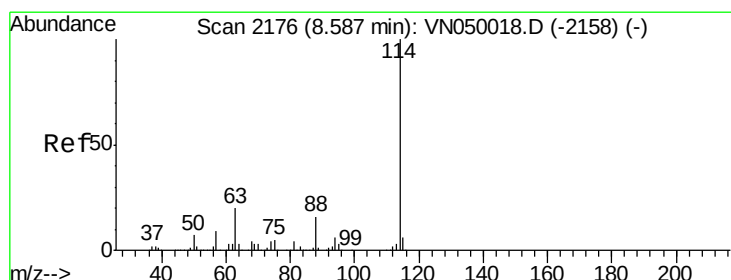
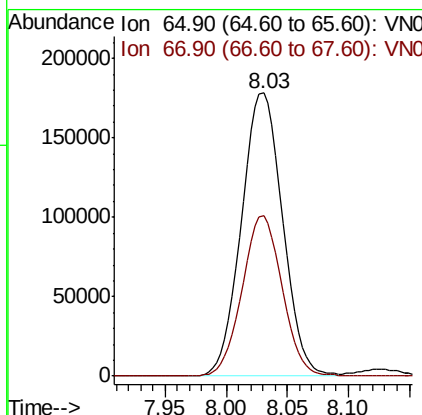
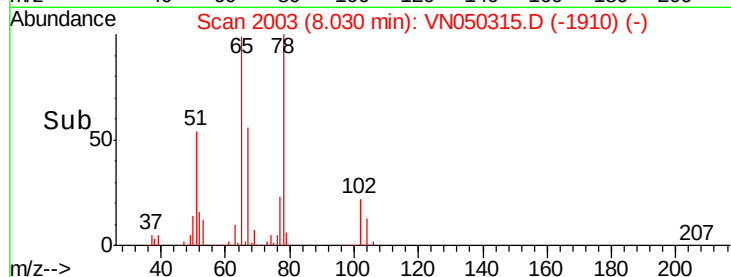
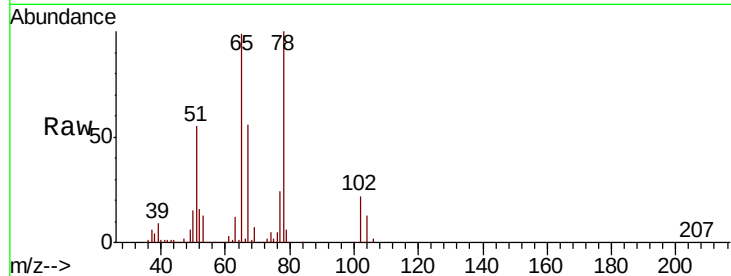
#33
 1,2-Dichloroethane-d4
 Concen: 54.11 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN050315.D
 Acq: 3 Aug 2018 16:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0803WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	55.1	0.0	108.4	

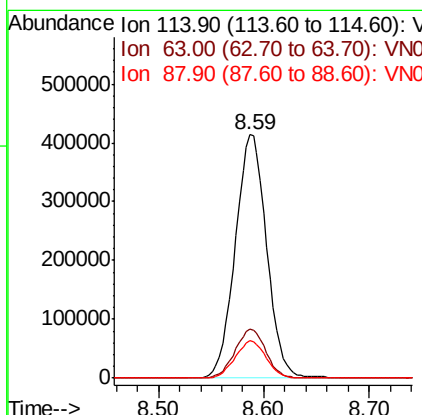
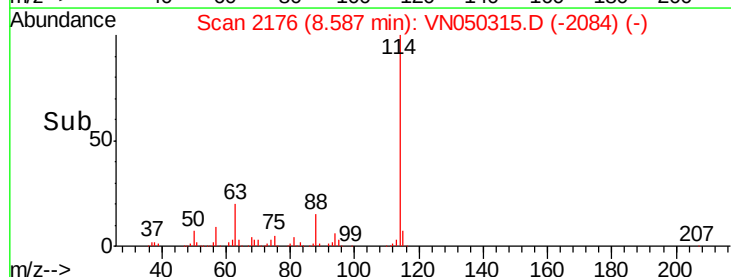
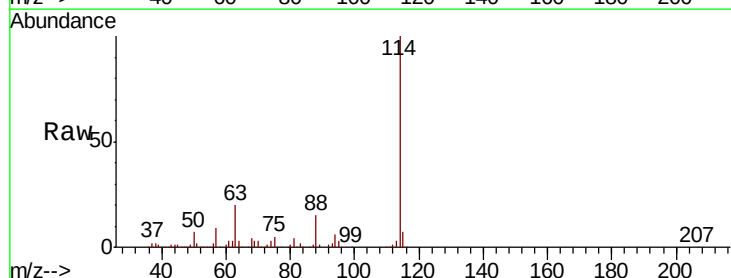
Manual Integrations
 APPROVED

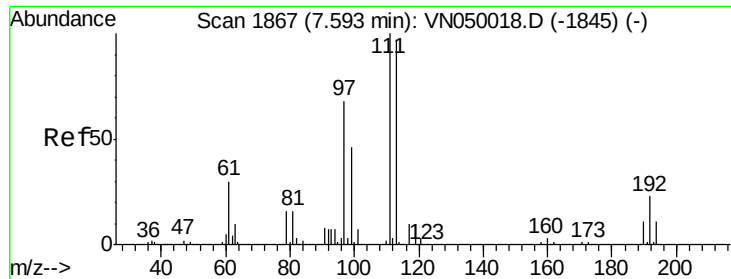
MMDadoda
 8/6/2018 11:38:32 AM



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. -0.00 min
 Lab File: VN050315.D
 Acq: 3 Aug 2018 16:12

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	20.0	0.0	40.0	
88	15.3	0.0	31.2	





#35

Dibromofluoromethane

Concen: 52.61 ug/l

RT: 7.59 min Scan# 1867

Delta R.T. 0.00 min

Lab File: VN050315.D

Acq: 3 Aug 2018 16:12

Instrument :

MSVOA_N

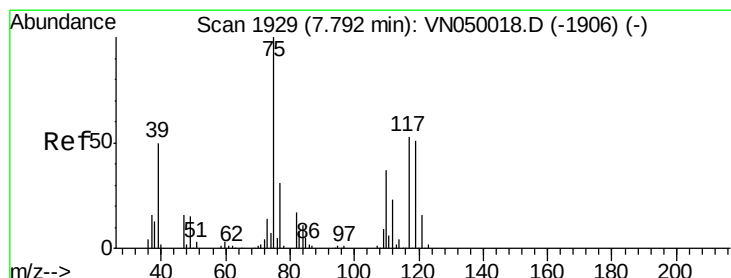
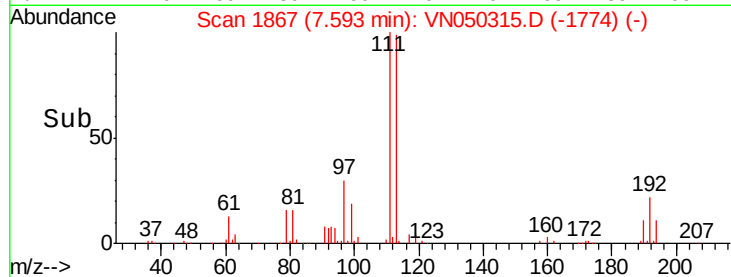
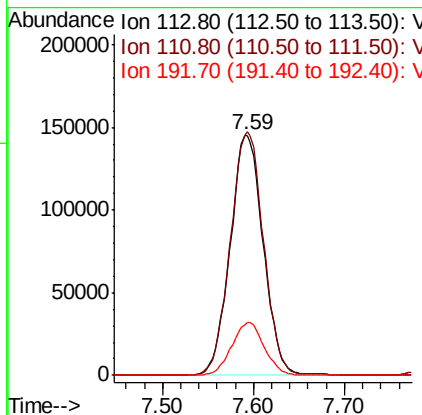
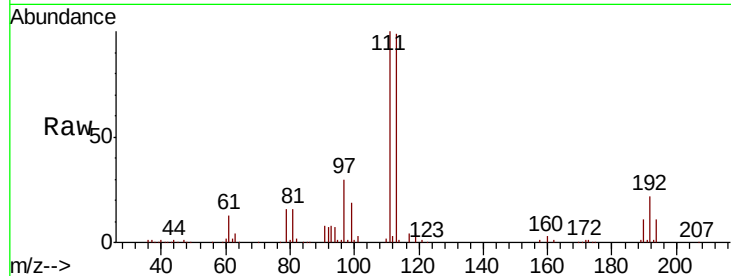
ClientSampleId :

VN0803WBSD02

Tot Ion:	113	Resp:	366008
Ion	Ratio	Lower	Upper
113	100		
111	101.6	80.7	121.1
192	21.8	17.8	26.6

Manual Integrations
APPROVED

MMDadoda
8/6/2018 11:38:32 AM



#36

1,1-Dichloropropene

Concen: 19.25 ug/l

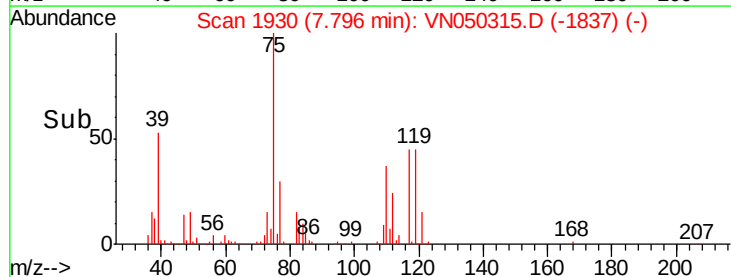
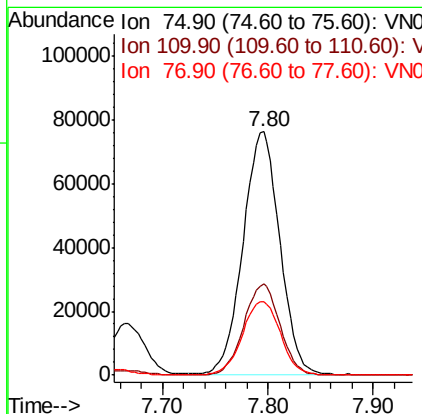
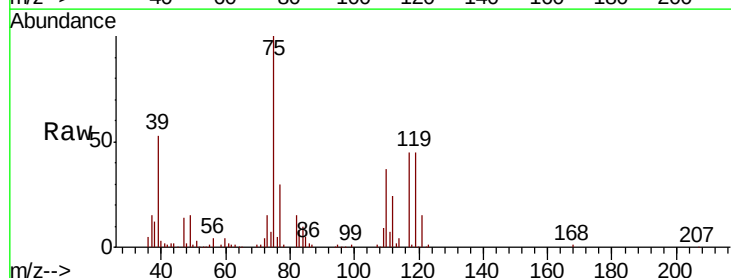
RT: 7.80 min Scan# 1930

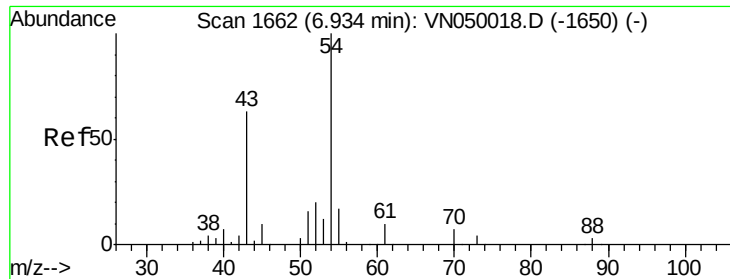
Delta R.T. 0.00 min

Lab File: VN050315.D

Acq: 3 Aug 2018 16:12

Tgt Ion:	75	Resp:	184786
Ion	Ratio	Lower	Upper
75	100		
110	36.8	18.4	55.2
77	31.6	25.3	37.9





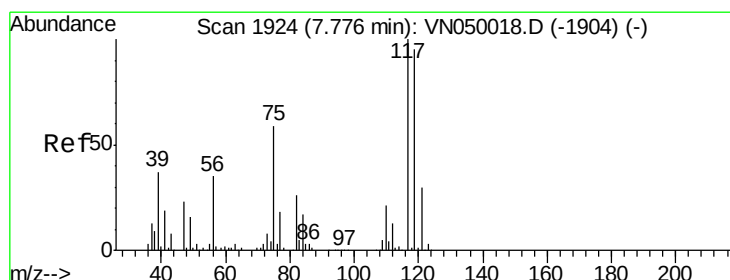
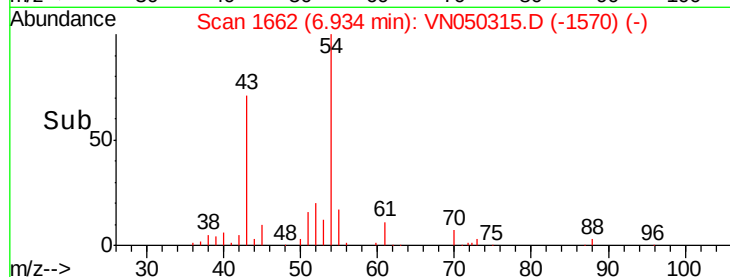
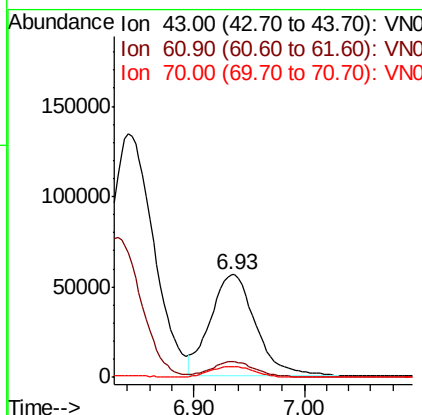
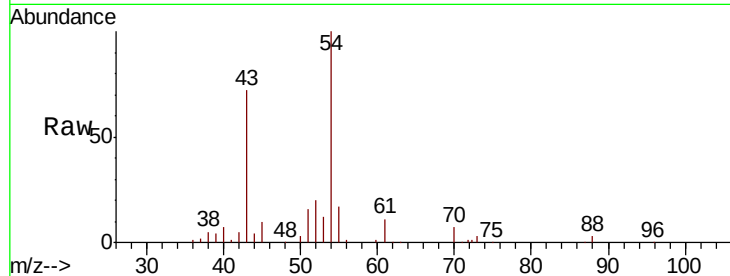
#37
Ethyl Acetate
Concen: 23.72 ug/l
RT: 6.93 min Scan# 1662
Delta R.T. -0.00 min
Lab File: VN050315.D
Acq: 3 Aug 2018 16:12

Instrument :
MSVOA_N
ClientSampled :
VN0803WBSD02

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.1	11.8	17.8
70	10.5	8.4	12.6

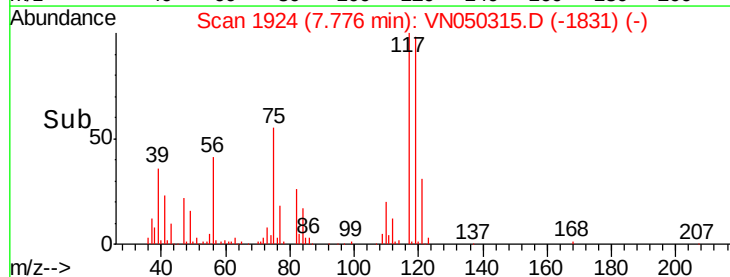
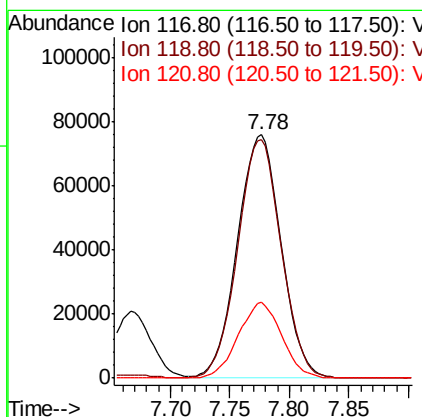
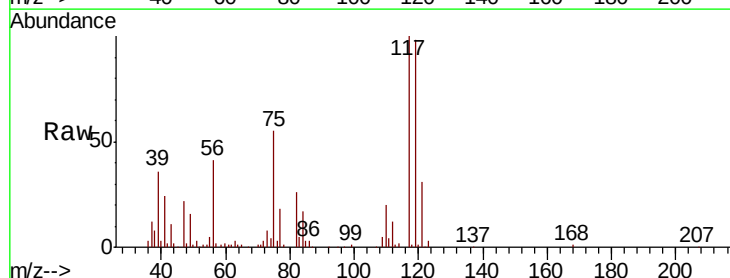
Manual Integrations
APPROVED

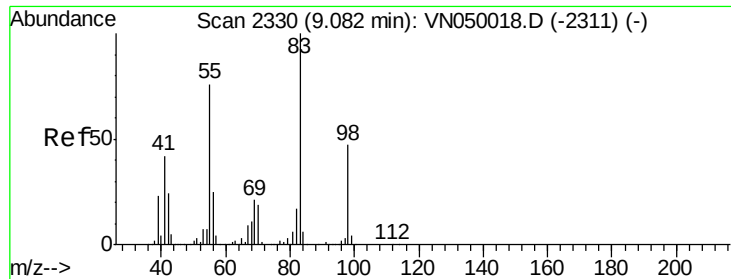
MMDadoda
8/6/2018 11:38:32 AM



#38
Carbon Tetrachloride
Concen: 18.92 ug/l
RT: 7.78 min Scan# 1924
Delta R.T. 0.00 min
Lab File: VN050315.D
Acq: 3 Aug 2018 16:12

Tgt Ion	Ratio	Lower	Upper
117	100		
119	97.8	77.4	116.0
121	31.0	23.9	35.9





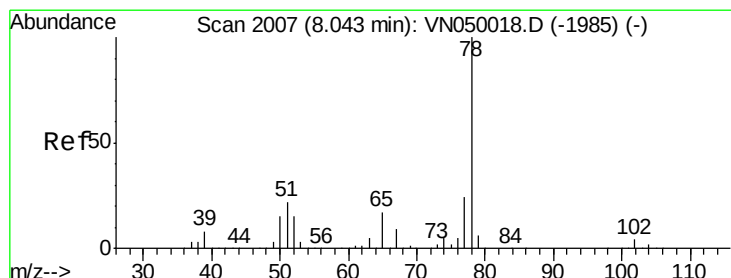
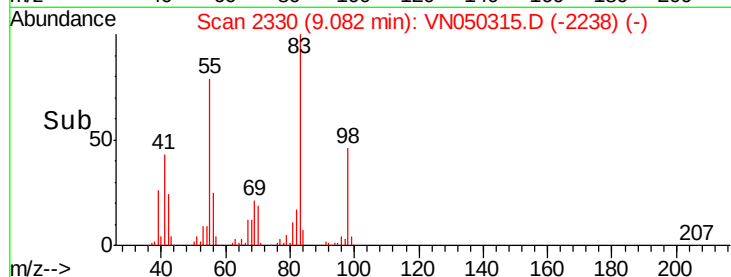
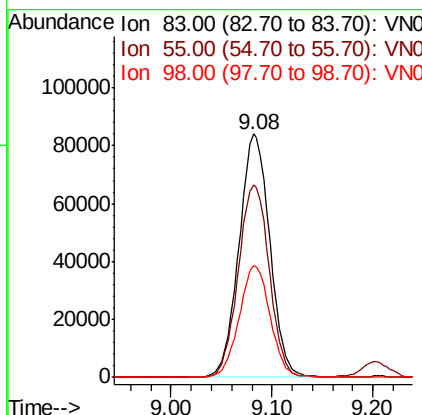
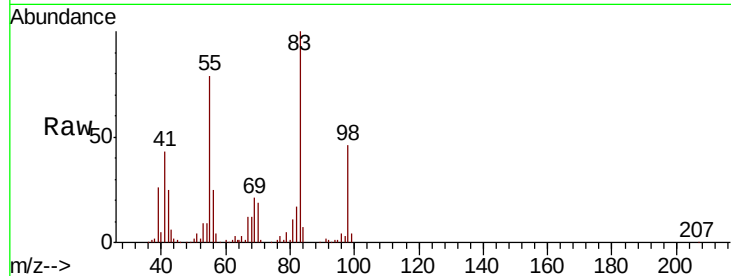
#39
Methylvlcyclohexane
Concen: 17.96 ug/l
RT: 9.08 min Scan# 2330
Delta R.T. -0.00 min
Lab File: VN050315.D
Acq: 3 Aug 2018 16:12

Instrument :
MSVOA_N
ClientSampleId :
VN0803WBSD02

Tot Ion	Ratio	Lower	Upper
83	100		
55	78.9	61.8	92.8
98	45.9	36.5	54.7

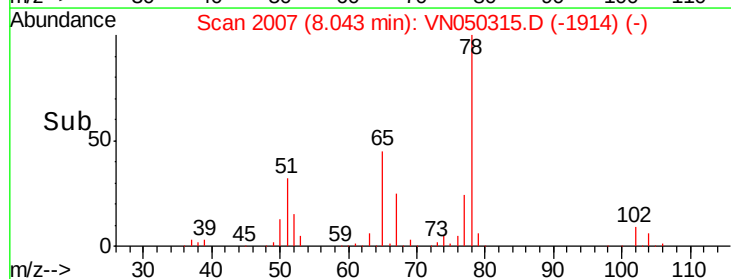
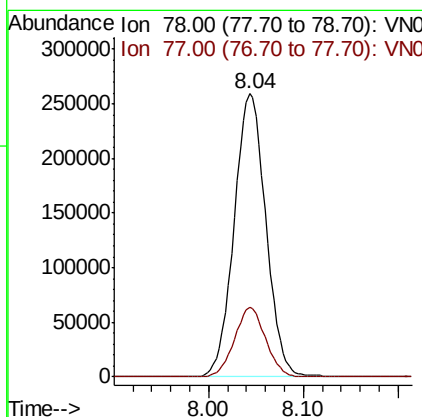
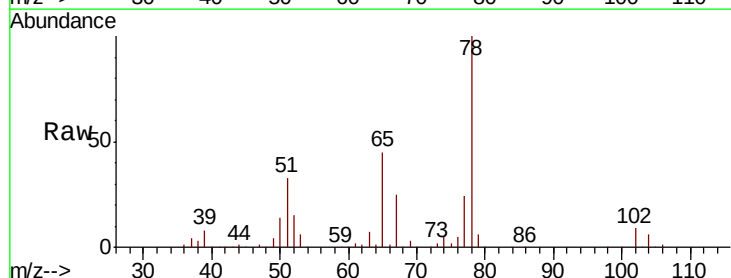
Manual Integrations
APPROVED

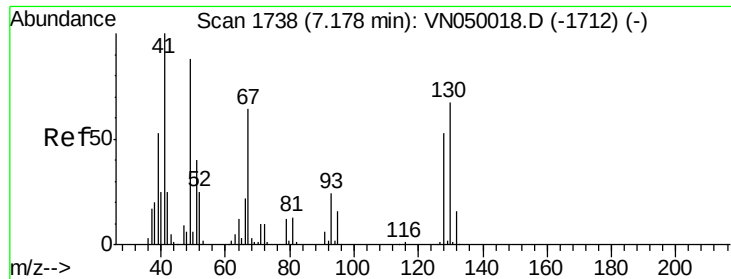
MMDadoda
8/6/2018 11:38:32 AM



#40
Benzene
Concen: 20.68 ug/l
RT: 8.04 min Scan# 2007
Delta R.T. 0.00 min
Lab File: VN050315.D
Acq: 3 Aug 2018 16:12

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.4	18.7	28.1





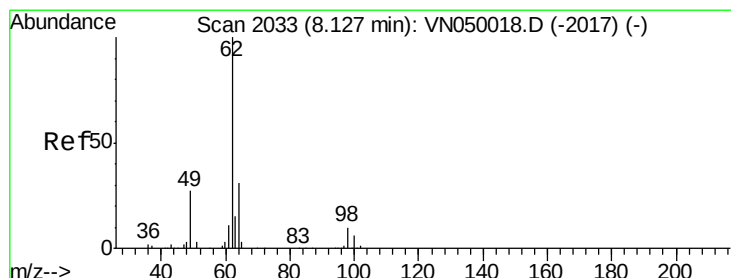
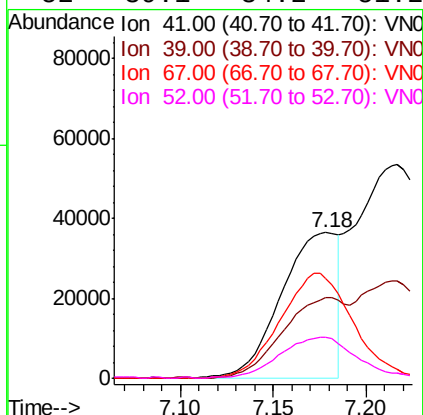
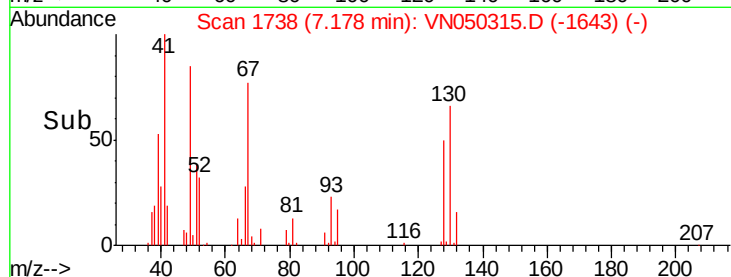
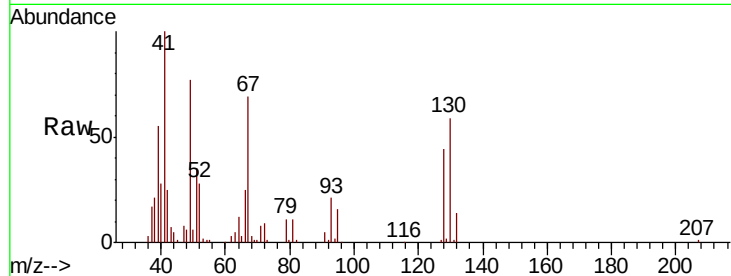
#41
Methacrylonitrile
Concen: 23.76 ug/l
RT: 7.18 min Scan# 1738
Delta R.T. 0.00 min
Lab File: VN050315.D
Acq: 3 Aug 2018 16:12

Instrument :
MSVOA_N
ClientSampleId :
VN0803WBSD02

Tot Ion	41	Resp	77518
Ion	Ratio	Lower	Upper
41	100		
39	63.2	55.8	83.6
67	93.6	84.3	126.5
52	39.1	34.2	51.2

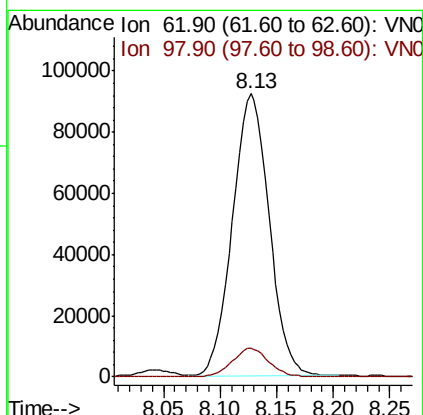
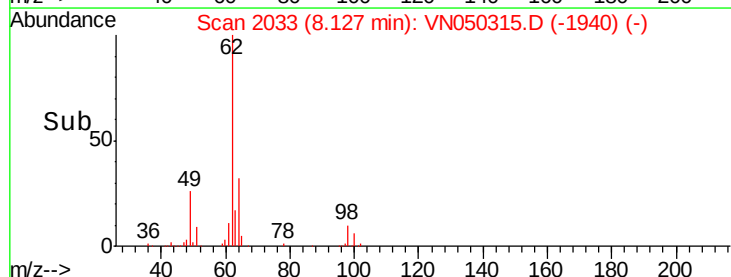
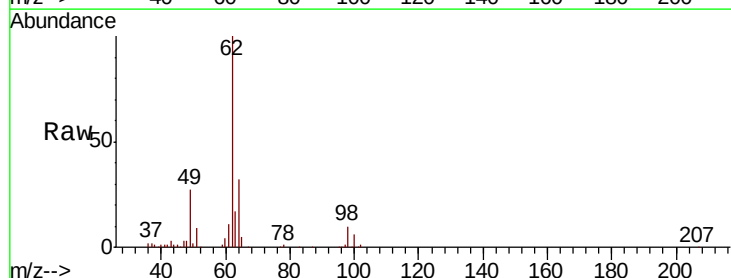
Manual Integrations
APPROVED

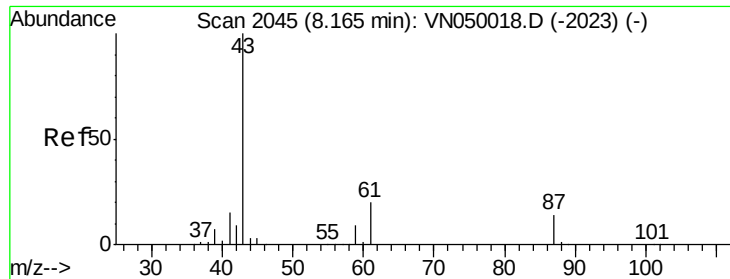
MMDadoda
8/6/2018 11:38:32 AM



#42
1,2-Dichloroethane
Concen: 21.42 ug/l
RT: 8.13 min Scan# 2033
Delta R.T. 0.00 min
Lab File: VN050315.D
Acq: 3 Aug 2018 16:12

Tgt Ion	62	Resp	208706
Ion	Ratio	Lower	Upper
62	100		
98	10.1	0.0	18.8





#43

Isopropyl Acetate

Concen: 30.78 ug/l

RT: 8.17 min Scan# 2046

Delta R.T. 0.00 min

Lab File: VN050315.D

Acq: 3 Aug 2018 16:12

Instrument :

MSVOA_N

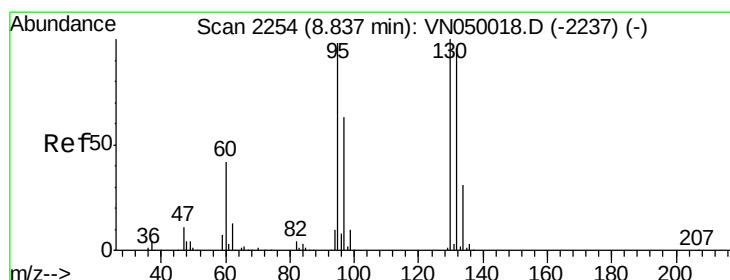
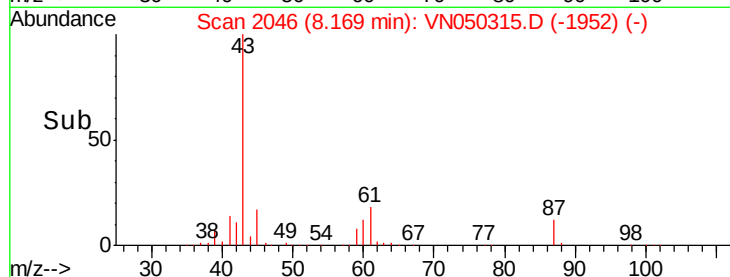
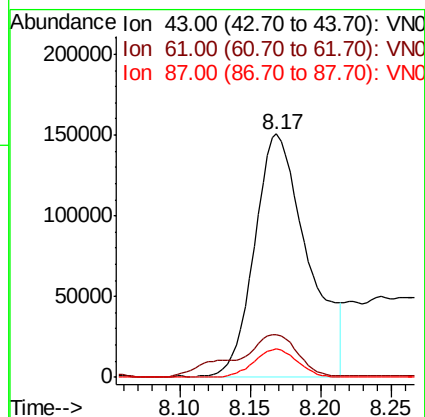
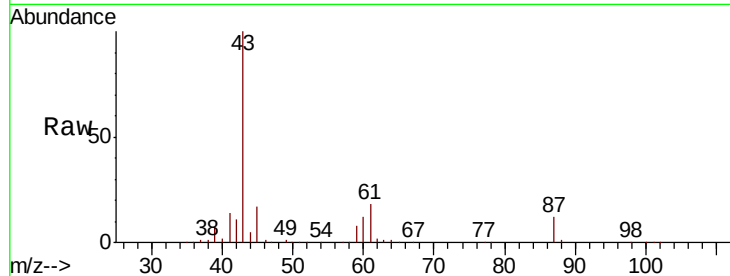
ClientSampleId :

VN0803WBSD02

Tot Ion:	43	Resp:	393710
Ion	Ratio	Lower	Upper
43	100		
61	20.4	15.8	23.6
87	9.7	10.3	15.5#

Manual Integrations
APPROVED

MMDadoda
8/6/2018 11:38:32 AM



#44

Trichloroethene

Concen: 19.60 ug/l

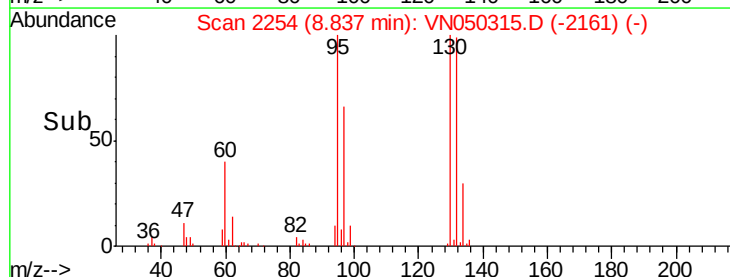
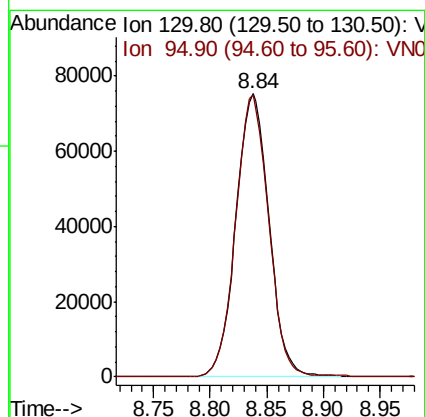
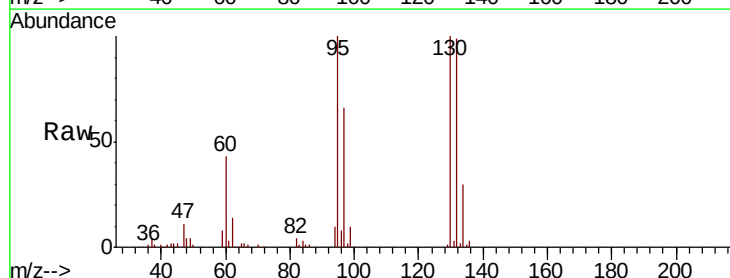
RT: 8.84 min Scan# 2254

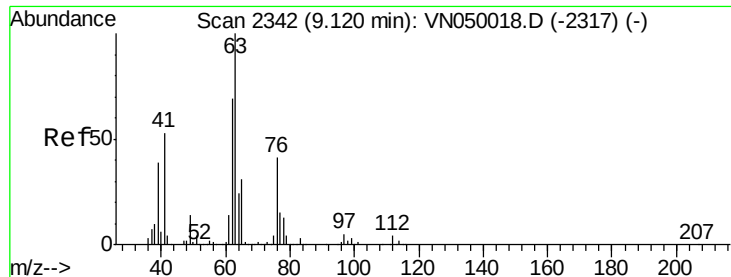
Delta R.T. 0.00 min

Lab File: VN050315.D

Acq: 3 Aug 2018 16:12

Tgt Ion:	130	Resp:	153840
Ion	Ratio	Lower	Upper
130	100		
95	99.5	0.0	194.6





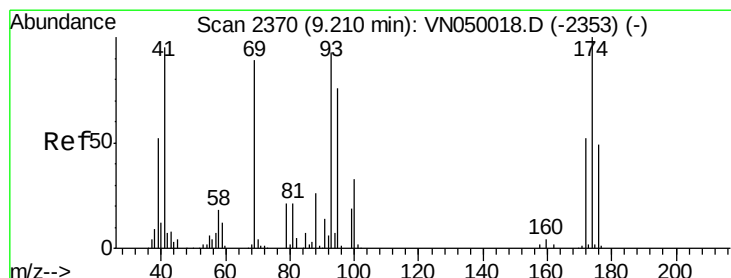
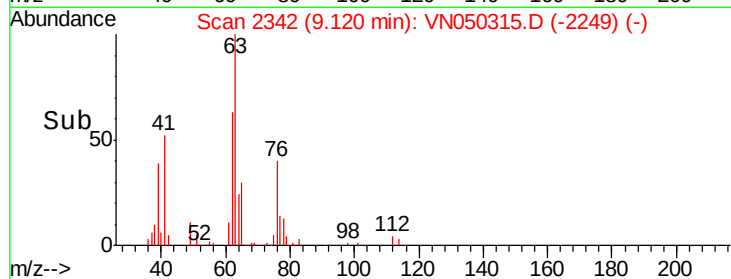
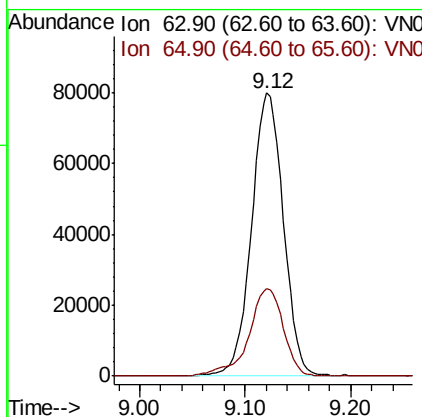
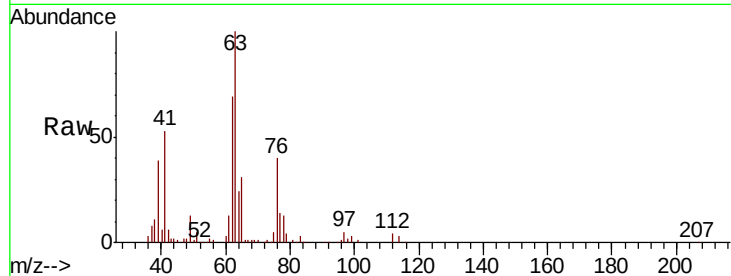
#45
 1,2-Dichloropropane
 Concen: 21.75 ug/l
 RT: 9.12 min Scan# 2342
 Delta R.T. 0.00 min
 Lab File: VN050315.D
 Acq: 3 Aug 2018 16:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0803WBSD02

Tot Ion	Ratio	Lower	Upper
63	100		
65	30.8	25.5	38.3

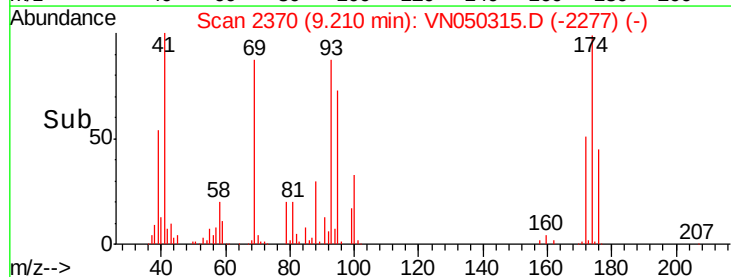
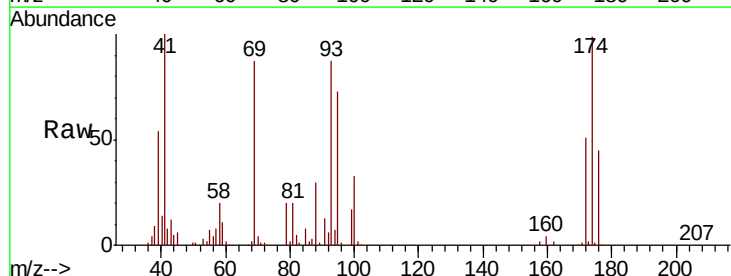
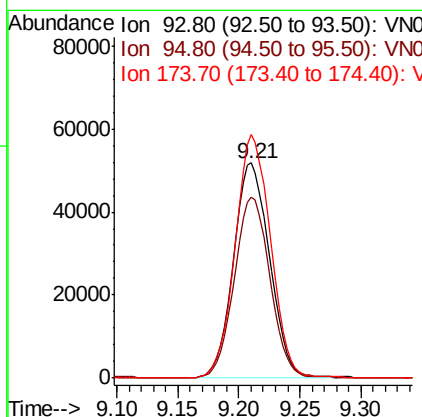
Manual Integrations
 APPROVED

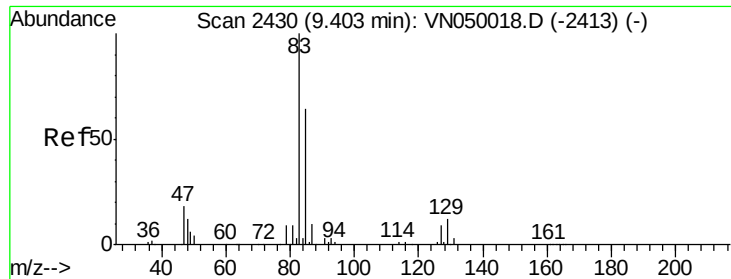
MMDadoda
 8/6/2018 11:38:32 AM



#46
 Dibromomethane
 Concen: 22.18 ug/l
 RT: 9.21 min Scan# 2370
 Delta R.T. 0.00 min
 Lab File: VN050315.D
 Acq: 3 Aug 2018 16:12

Tgt Ion	Ratio	Lower	Upper
93	100		
95	83.2	66.6	100.0
174	110.7	87.1	130.7





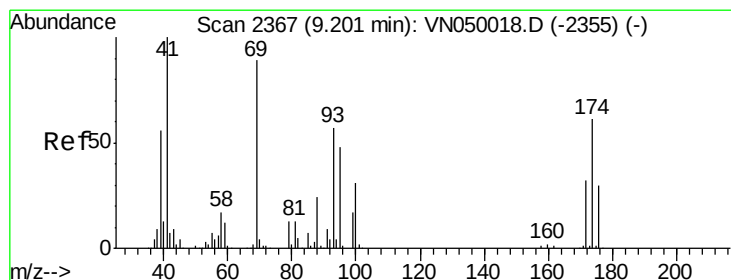
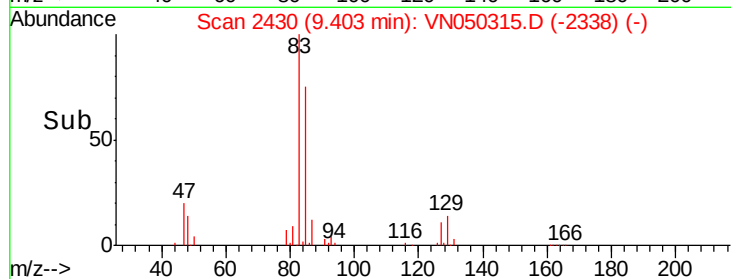
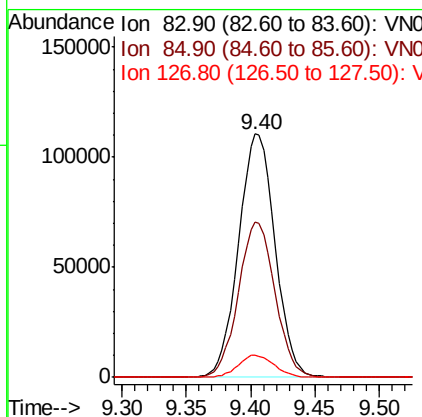
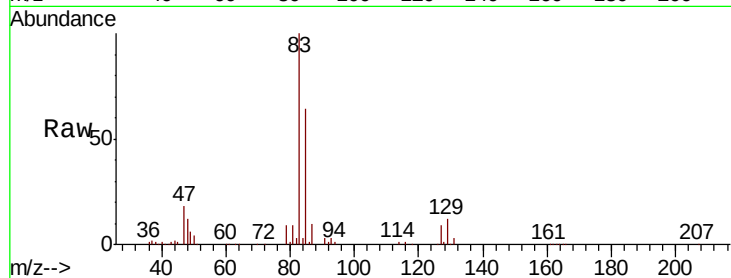
#47
Bromodichloromethane
Concen: 21.48 ug/l
RT: 9.40 min Scan# 2430
Delta R.T. -0.00 min
Lab File: VN050315.D
Acq: 3 Aug 2018 16:12

Instrument :
MSVOA_N
ClientSampleId :
VN0803WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
83	100	217821		
85	63.9		51.1	76.7
127	9.1		7.0	10.4

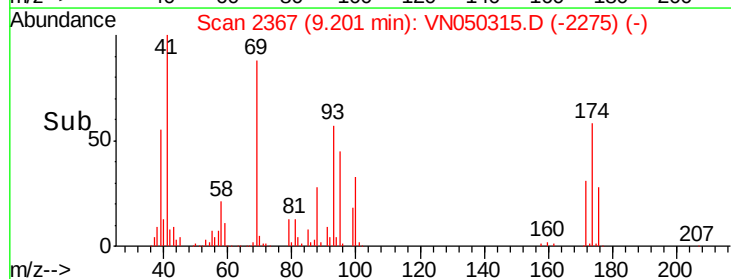
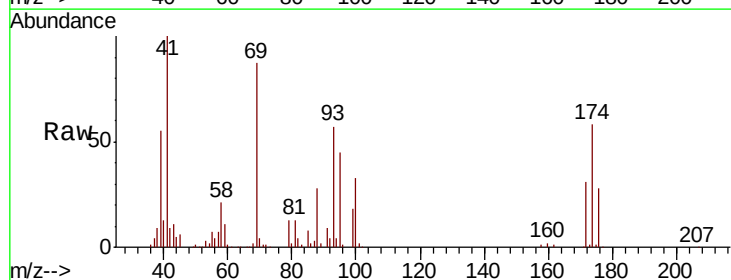
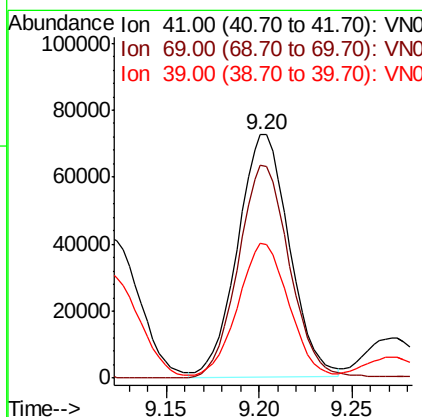
Manual Integrations
APPROVED

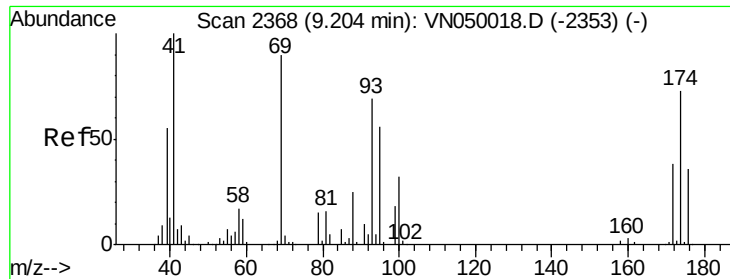
MMDadoda
8/6/2018 11:38:32 AM



#48
Methyl methacrylate
Concen: 24.47 ug/l
RT: 9.20 min Scan# 2367
Delta R.T. -0.00 min
Lab File: VN050315.D
Acq: 3 Aug 2018 16:12

Tgt Ion	Ratio	Resp	Lower	Upper
41	100	141030		
69	87.7		70.6	105.8
39	54.3		43.9	65.9





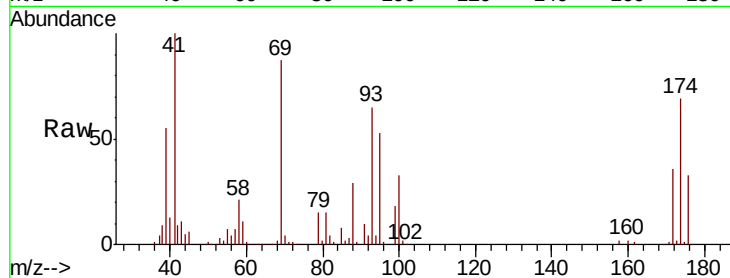
#49
1,4-Dioxane
Concen: 553.13 ug/l
RT: 9.20 min Scan# 2368
Delta R.T. 0.00 min
Lab File: VN050315.D
Acq: 3 Aug 2018 16:12

Instrument :
MSVOA_N
ClientSampleId :
VN0803WBSD02

Tot Ion	88	Resp	43388
Ion Ratio	100	Lower	Upper
88	100		
43	33.0	26.9	40.3
58	72.5	57.3	85.9

Manual Integrations
APPROVED

MMDadoda
8/6/2018 11:38:32 AM

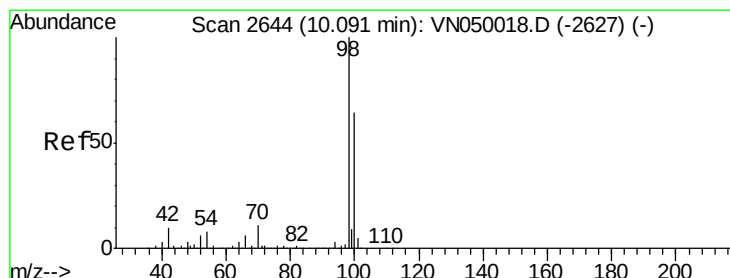
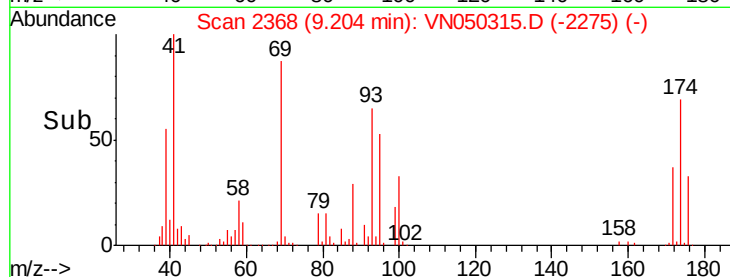
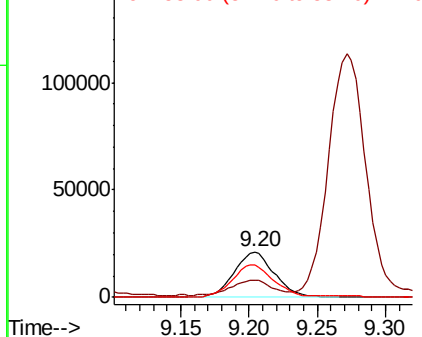


Abundance

Ion 88.00 (87.70 to 88.70): VN0

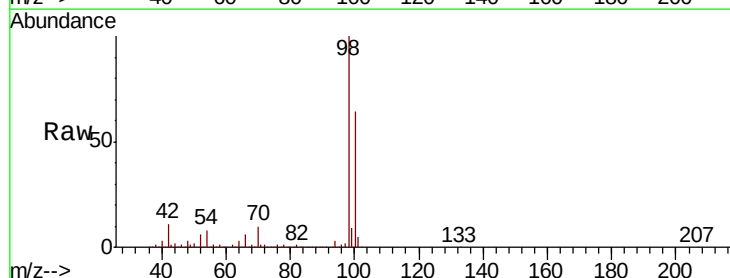
Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50
Toluene-d8
Concen: 50.05 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. -0.00 min
Lab File: VN050315.D
Acq: 3 Aug 2018 16:12

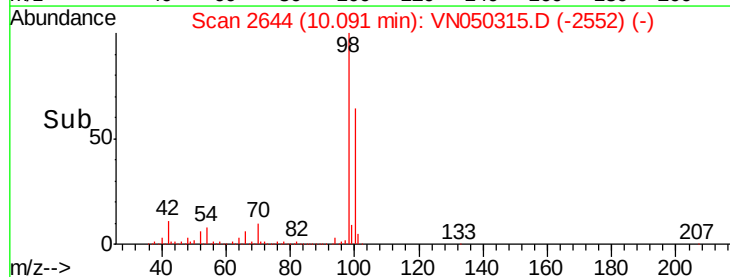
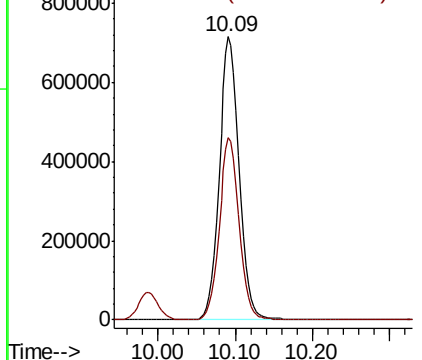
Tgt Ion	98	Resp	1280090
Ion Ratio	100	Lower	Upper
98	100		
100	63.9	50.7	76.1

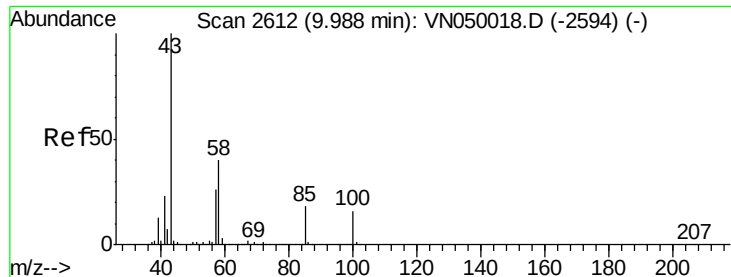


Abundance

Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





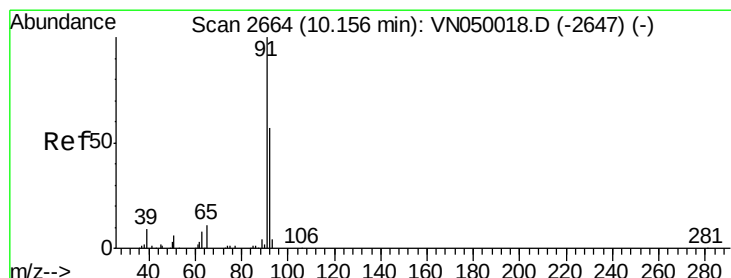
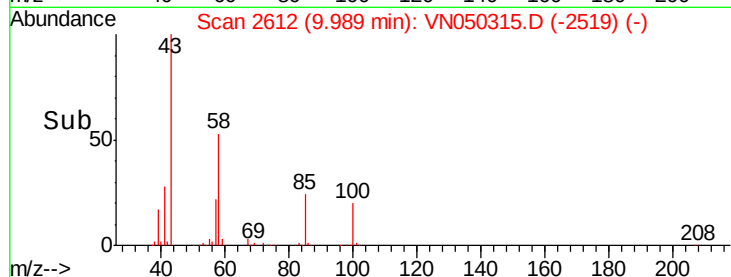
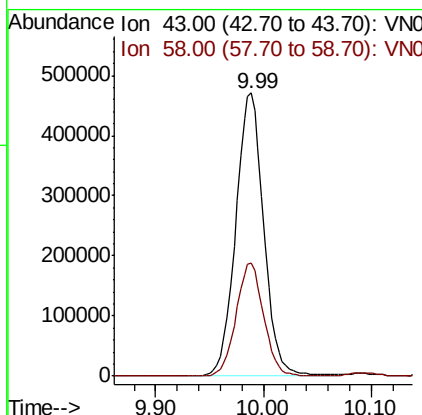
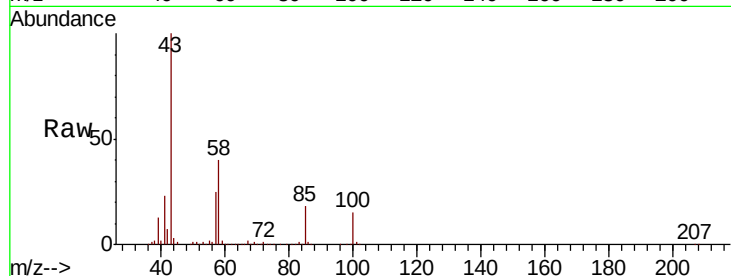
#51
 4-Methyl-2-Pentanone
 Concen: 128.51 ug/l
 RT: 9.99 min Scan# 2612
 Delta R.T. 0.00 min
 Lab File: VN050315.D
 Acq: 3 Aug 2018 16:12

Instrument :
 MSVOA_N
 ClientSampled :
 VN0803WBSD02

Tot Ion	Ratio	Lower	Upper
43	100		
58	39.6	31.9	47.9

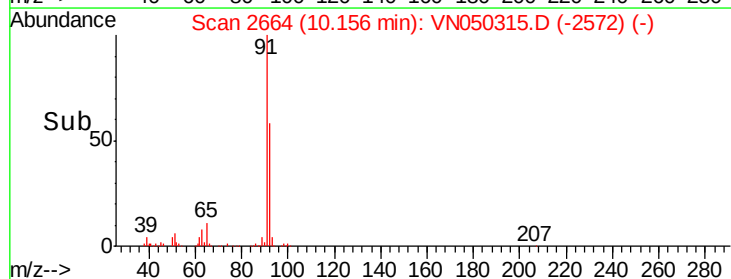
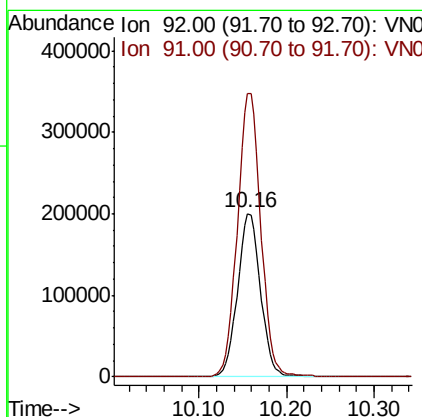
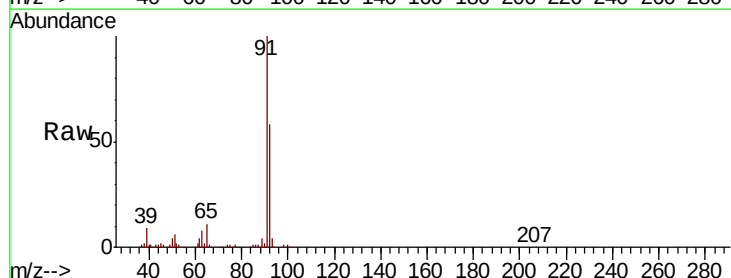
Manual Integrations
 APPROVED

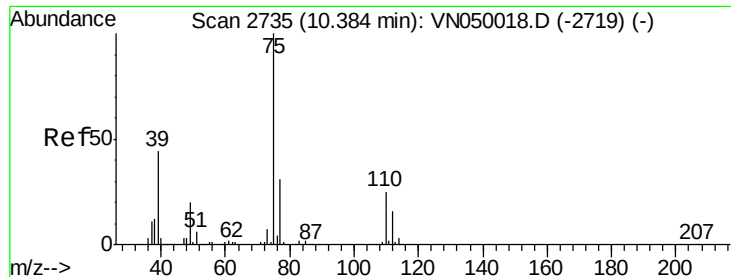
MMDadoda
 8/6/2018 11:38:32 AM



#52
 Toluene
 Concen: 21.23 ug/l
 RT: 10.16 min Scan# 2664
 Delta R.T. -0.00 min
 Lab File: VN050315.D
 Acq: 3 Aug 2018 16:12

Tgt Ion	Ratio	Lower	Upper
92	100		
91	176.2	140.3	210.5





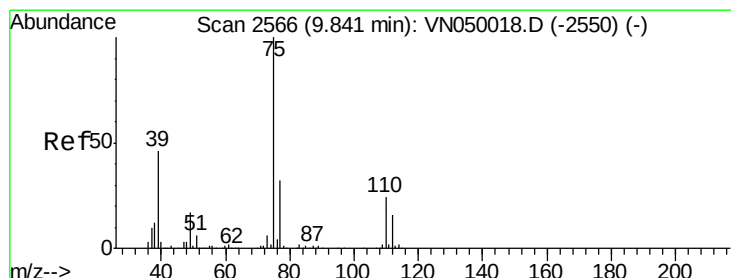
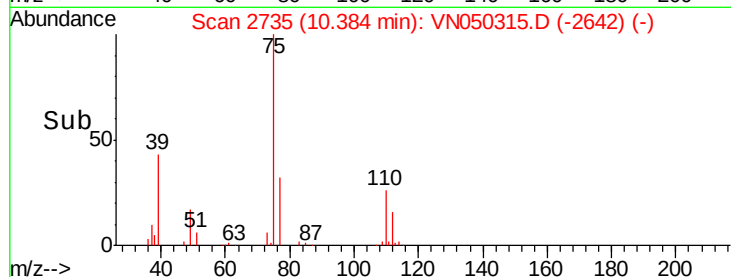
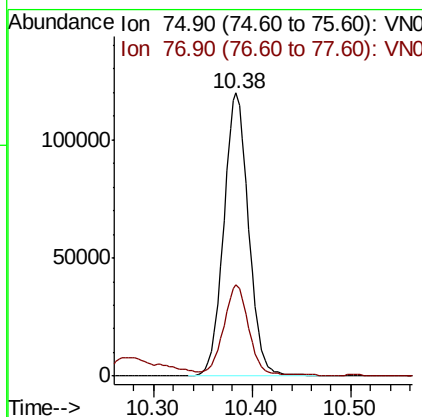
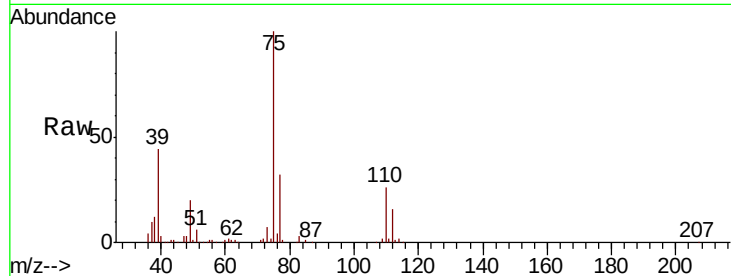
#53
t-1,3-Dichloropropene
Concen: 22.14 ug/l
RT: 10.38 min Scan# 2735
Delta R.T. 0.00 min
Lab File: VN050315.D
Acq: 3 Aug 2018 16:12

Instrument :
MSVOA_N
ClientSampled :
VN0803WBSD02

Tot Ion	Ratio	Lower	Upper
75	100		
77	32.0	24.9	37.3

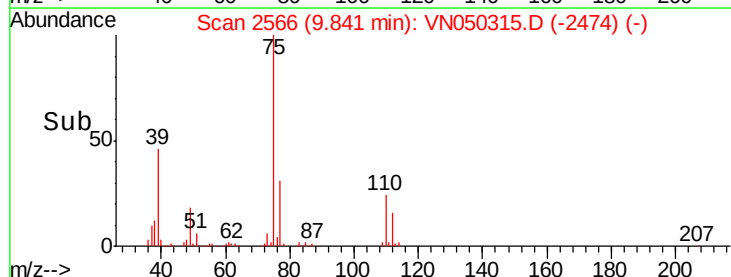
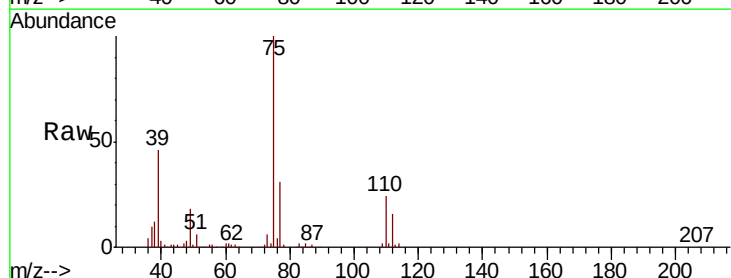
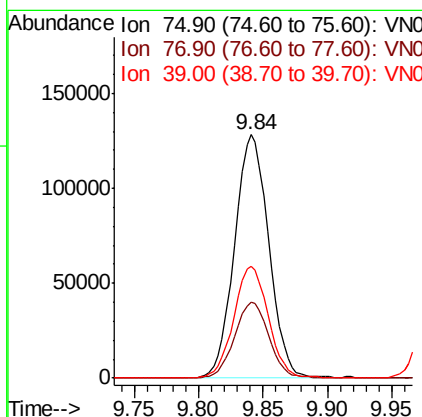
Manual Integrations
APPROVED

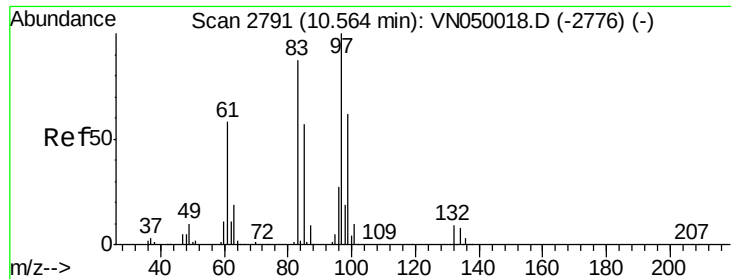
MMDadoda
8/6/2018 11:38:32 AM



#54
cis-1,3-Dichloropropene
Concen: 21.64 ug/l
RT: 9.84 min Scan# 2566
Delta R.T. -0.00 min
Lab File: VN050315.D
Acq: 3 Aug 2018 16:12

Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.3	25.5	38.3
39	45.9	36.6	55.0





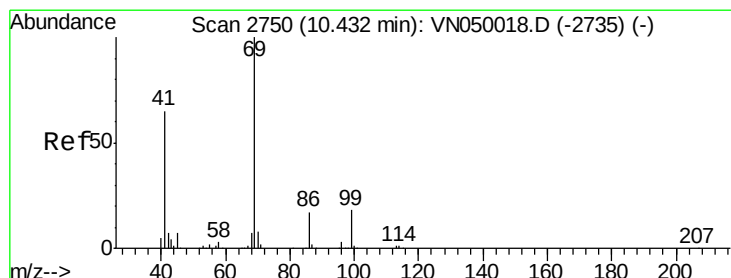
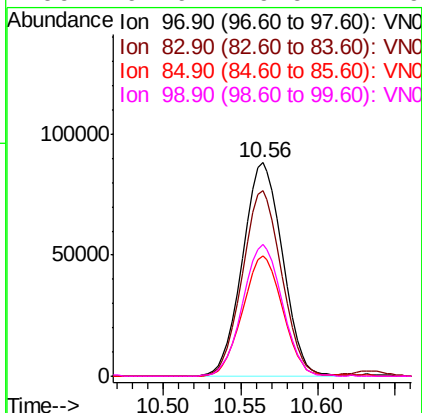
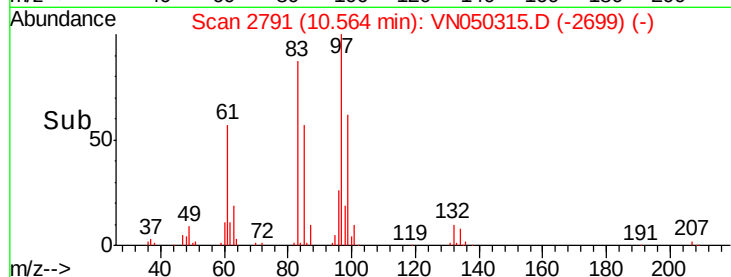
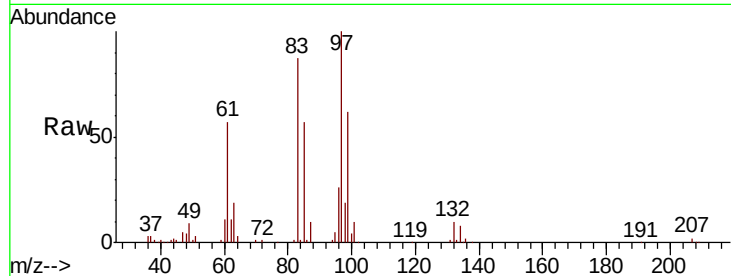
#55
 1,1,2-Trichloroethane
 Concen: 23.27 ug/l
 RT: 10.56 min Scan# 2791
 Delta R.T. -0.00 min
 Lab File: VN050315.D
 Acq: 3 Aug 2018 16:12

Instrument :
 MSVOA_N
 ClientSampled :
 VN0803WBSD02

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		159118		
83	87.2	69.2	103.8		
85	56.6	44.0	66.0		
99	61.6	49.9	74.9		

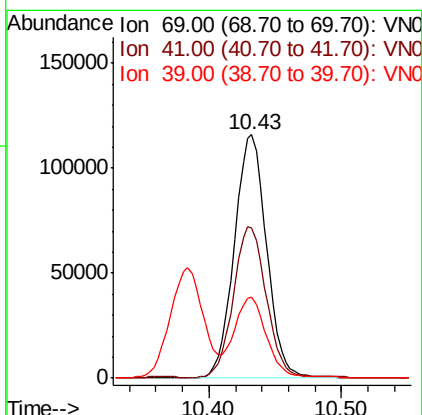
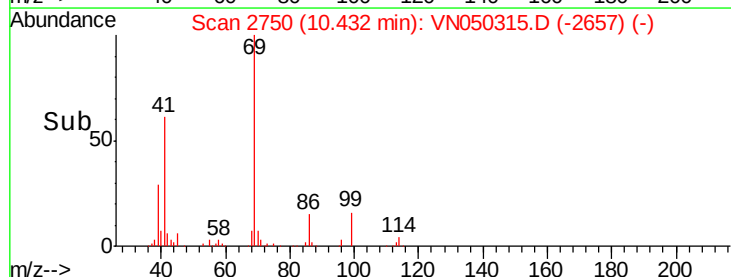
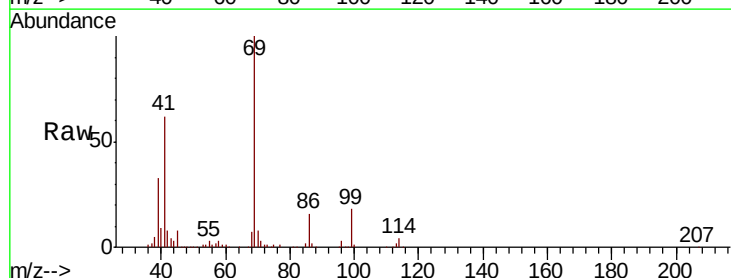
Manual Integrations
 APPROVED

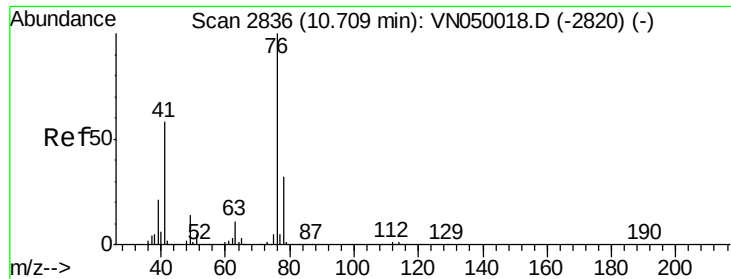
MMDadoda
 8/6/2018 11:38:32 AM



#56
 Ethyl methacrylate
 Concen: 22.33 ug/l
 RT: 10.43 min Scan# 2750
 Delta R.T. 0.00 min
 Lab File: VN050315.D
 Acq: 3 Aug 2018 16:12

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		196022		
41	63.0	51.0	76.4		
39	32.6	26.6	40.0		





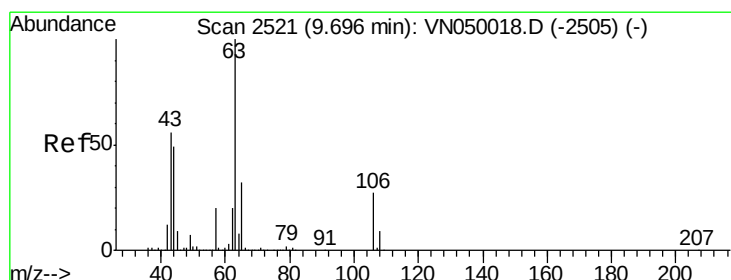
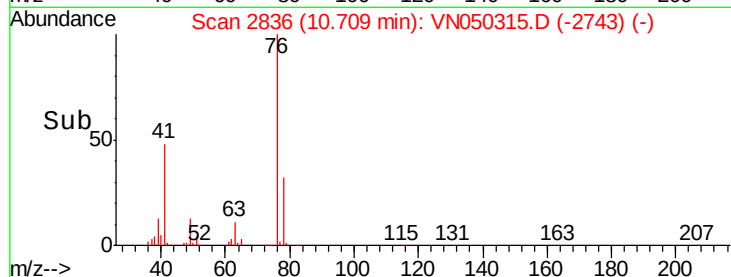
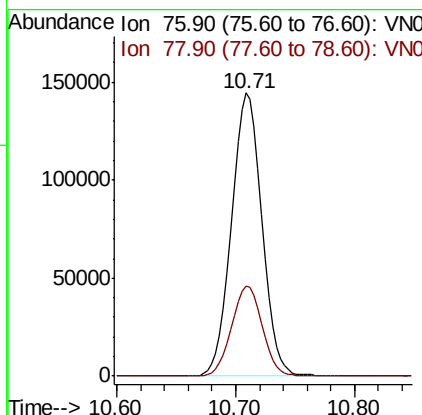
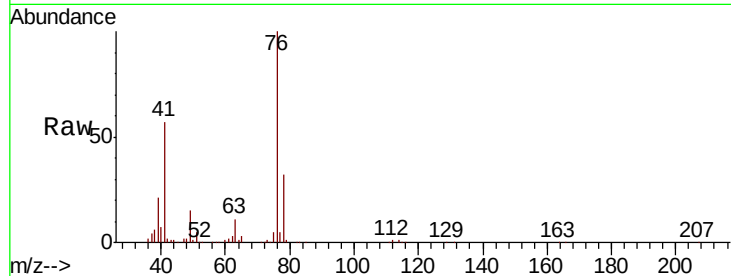
#57
 1,3-Dichloropropane
 Concen: 22.93 ug/l
 RT: 10.71 min Scan# 2836
 Delta R.T. 0.00 min
 Lab File: VN050315.D
 Acq: 3 Aug 2018 16:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0803WBSD02

Tot Ion	Ratio	Lower	Upper
76	100		
78	32.3	25.7	38.5

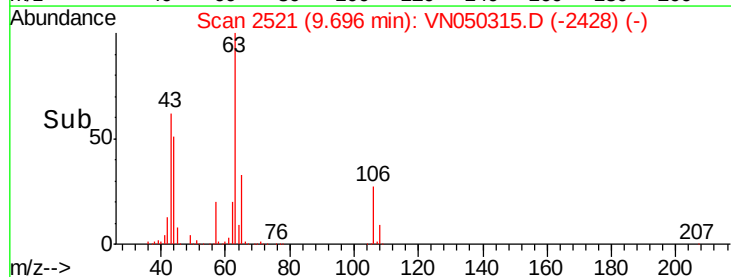
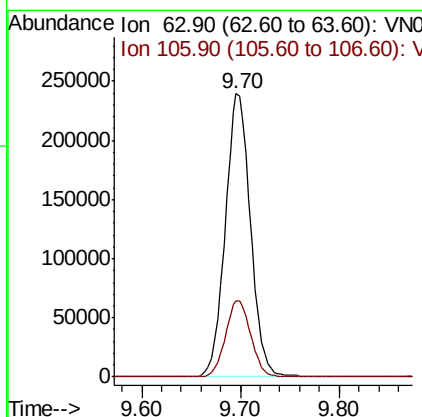
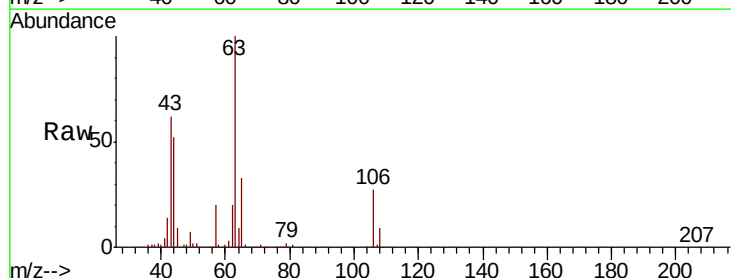
Manual Integrations
 APPROVED

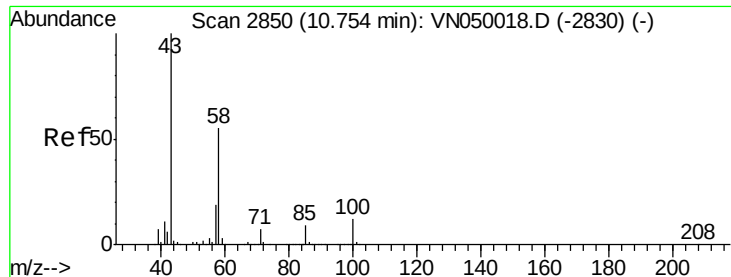
MMDadoda
 8/6/2018 11:38:32 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 104.17 ug/l
 RT: 9.70 min Scan# 2521
 Delta R.T. -0.00 min
 Lab File: VN050315.D
 Acq: 3 Aug 2018 16:12

Tgt Ion	Ratio	Lower	Upper
63	100		
106	27.1	21.7	32.5





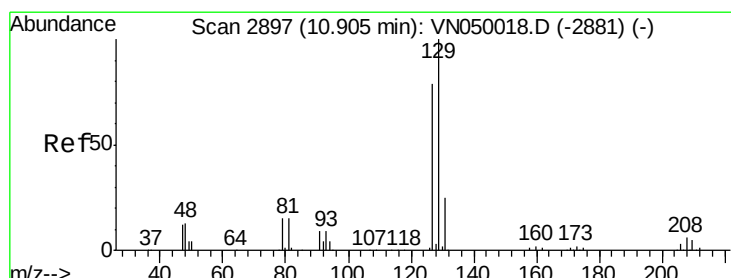
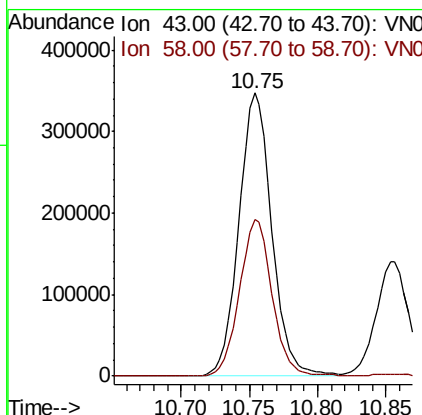
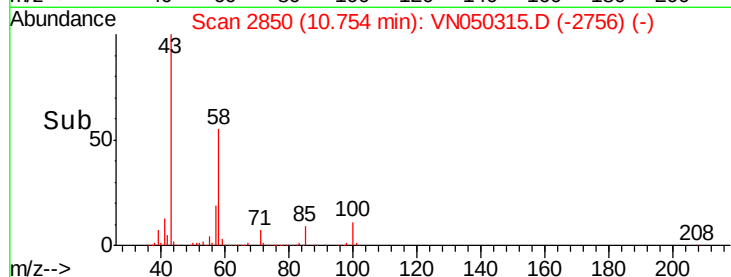
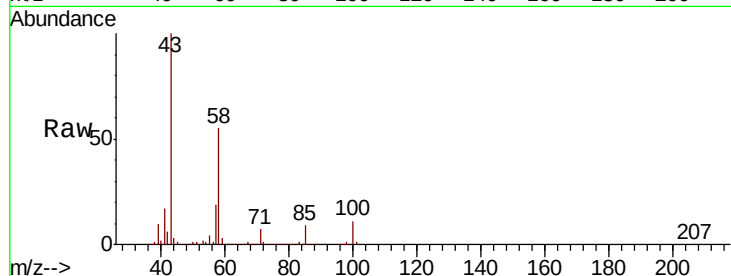
#59
2-Hexanone
Concen: 122.06 ug/l
RT: 10.75 min Scan# 2850
Delta R.T. 0.00 min
Lab File: VN050315.D
Acq: 3 Aug 2018 16:12

Instrument :
MSVOA_N
ClientSampleId :
VN0803WBSD02

Tot Ion	Ratio	Lower	Upper
43	100		
58	55.3	27.6	82.7

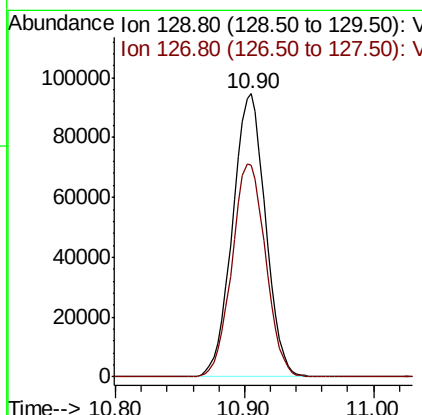
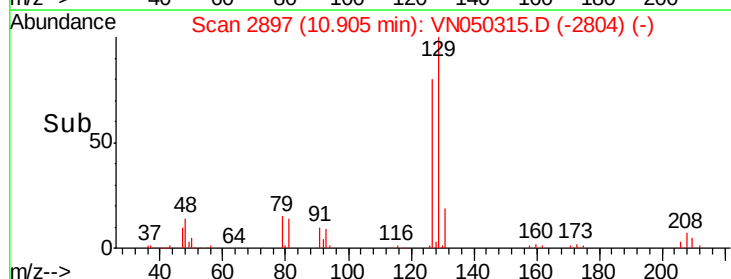
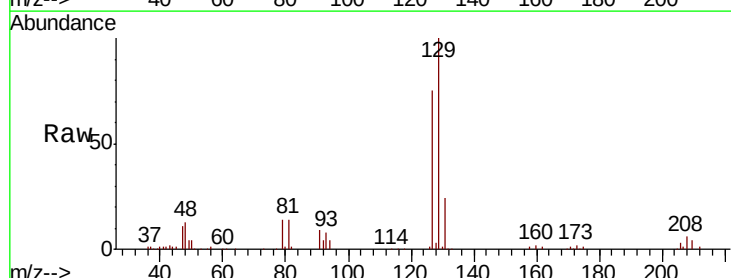
Manual Integrations
APPROVED

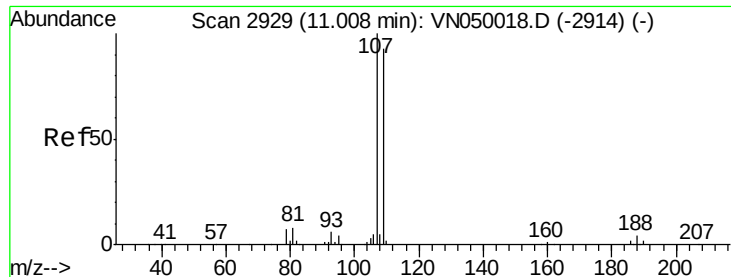
MMDadoda
8/6/2018 11:38:32 AM



#60
Dibromochloromethane
Concen: 22.18 ug/l
RT: 10.90 min Scan# 2897
Delta R.T. 0.00 min
Lab File: VN050315.D
Acq: 3 Aug 2018 16:12

Tgt Ion	Ratio	Lower	Upper
129	100		
127	76.9	38.0	113.9





#61

1,2-Dibromoethane

Concen: 22.58 ug/l

RT: 11.01 min Scan# 2929

Delta R.T. 0.00 min

Lab File: VN050315.D

Acq: 3 Aug 2018 16:12

Instrument :

MSVOA_N

ClientSampleId :

VN0803WBSD02

Tot Ion: 107 Resp: 153223

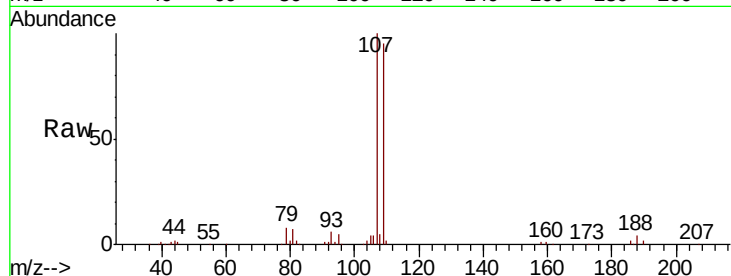
Ion Ratio Lower Upper

107 100

109 94.4 74.6 112.0

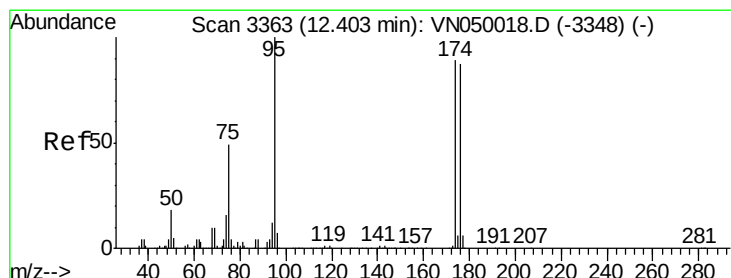
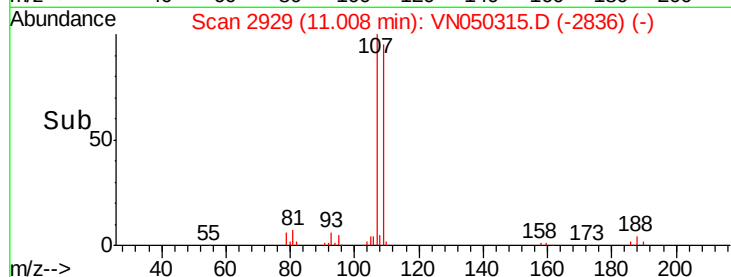
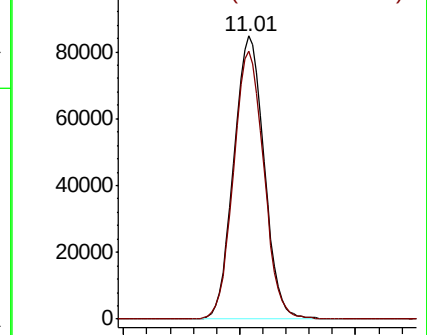
Manual Integrations
APPROVED

MMDadoda
8/6/2018 11:38:32 AM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 51.54 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050315.D

Acq: 3 Aug 2018 16:12

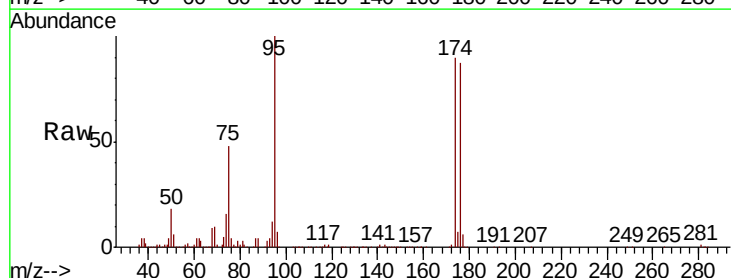
Tgt Ion: 95 Resp: 434038

Ion Ratio Lower Upper

95 100

174 90.3 0.0 178.2

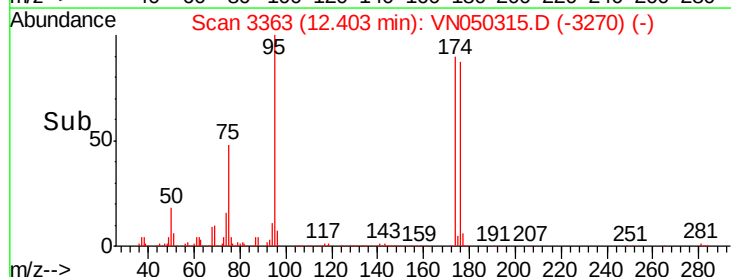
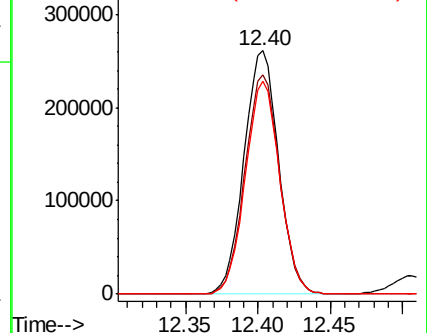
176 86.8 0.0 173.4

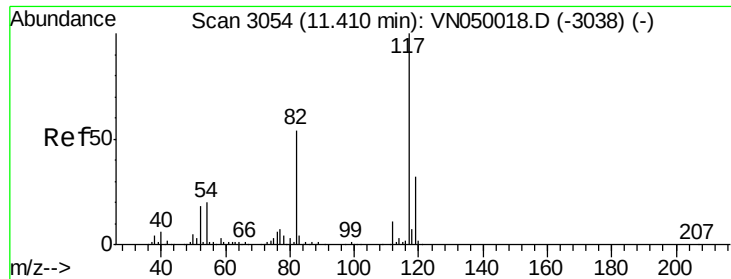


Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





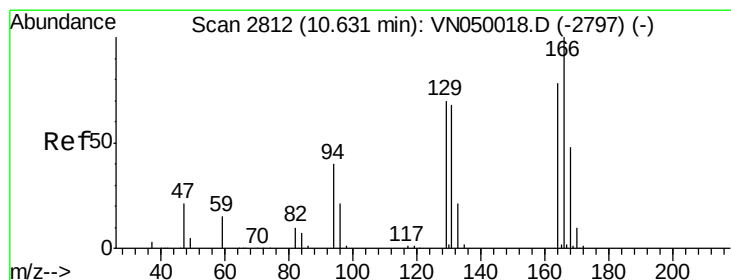
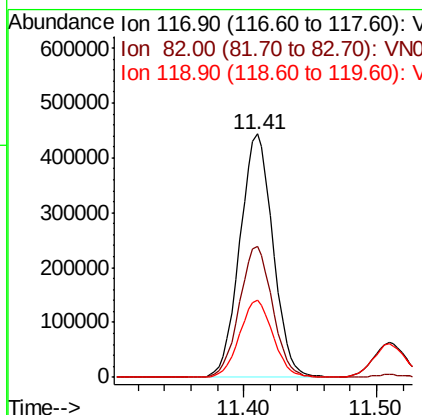
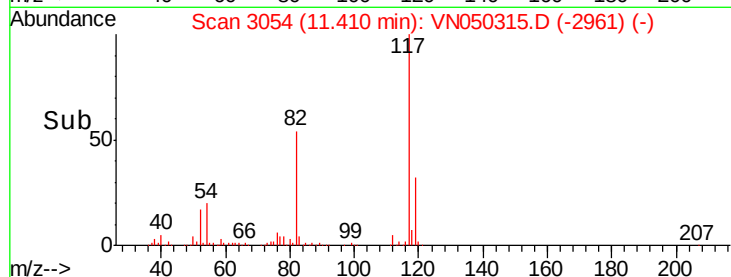
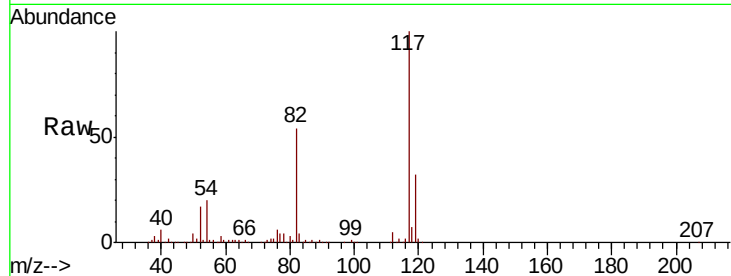
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050315.D
Acq: 3 Aug 2018 16:12

Instrument :
MSVOA_N
ClientSampleId :
VN0803WBSD02

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.5	43.7	65.5
119	31.5	26.1	39.1

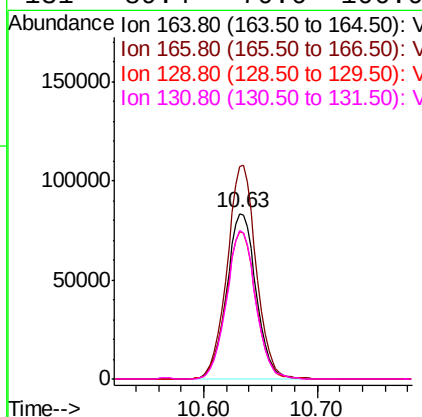
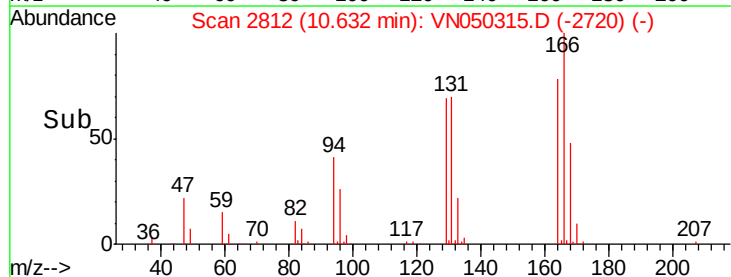
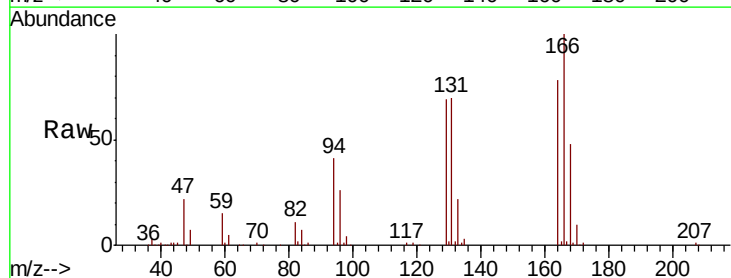
Manual Integrations
APPROVED

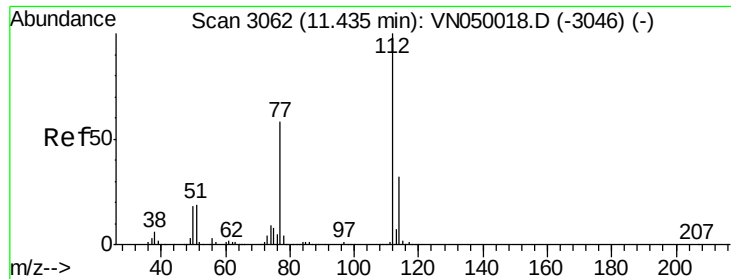
MMDadoda
8/6/2018 11:38:32 AM



#64
Tetrachloroethene
Concen: 20.42 ug/l
RT: 10.63 min Scan# 2812
Delta R.T. -0.00 min
Lab File: VN050315.D
Acq: 3 Aug 2018 16:12

Tgt Ion	Ratio	Lower	Upper
164	100		
166	128.6	102.1	153.1
129	88.9	73.2	109.8
131	89.4	70.6	106.0





#65

Chlorobenzene

Concen: 20.72 ug/l

RT: 11.44 min Scan# 3062

Delta R.T. 0.00 min

Lab File: VN050315.D

Acq: 3 Aug 2018 16:12

Instrument :

MSVOA_N

ClientSampled :

VN0803WBSD02

Tot Ion:112 Resp: 403330

Ion Ratio Lower Upper

112 100

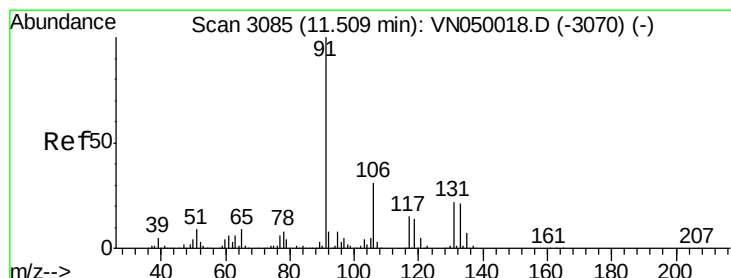
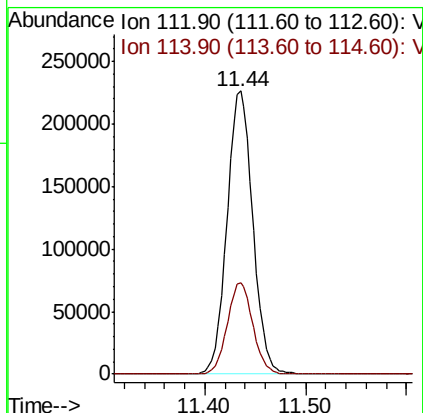
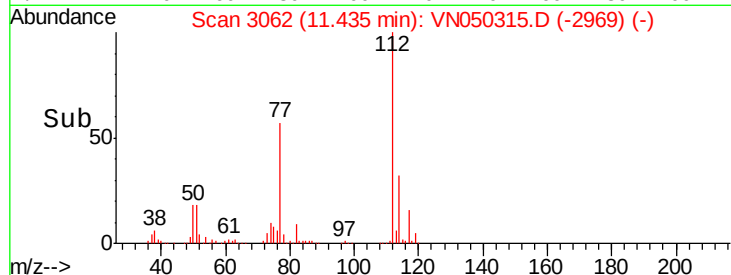
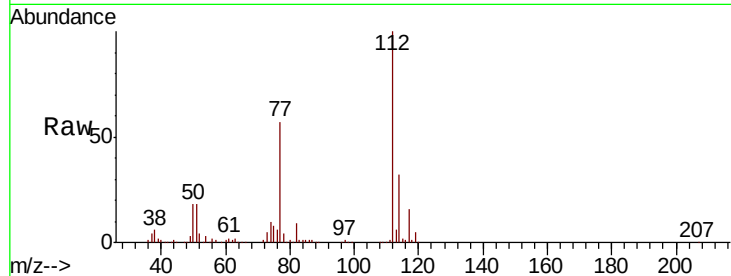
114 32.3 25.6 38.4

Manual Integrations

APPROVED

MMDadoda

8/6/2018 11:38:32 AM



#66

1,1,1,2-Tetrachloroethane

Concen: 20.90 ug/l

RT: 11.51 min Scan# 3085

Delta R.T. -0.00 min

Lab File: VN050315.D

Acq: 3 Aug 2018 16:12

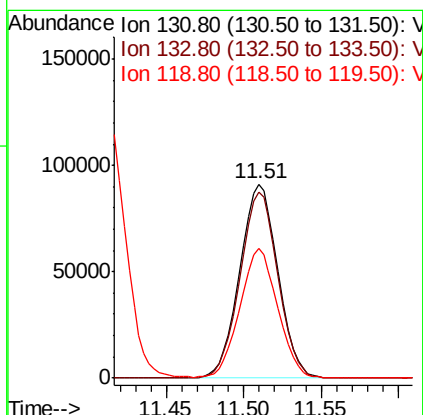
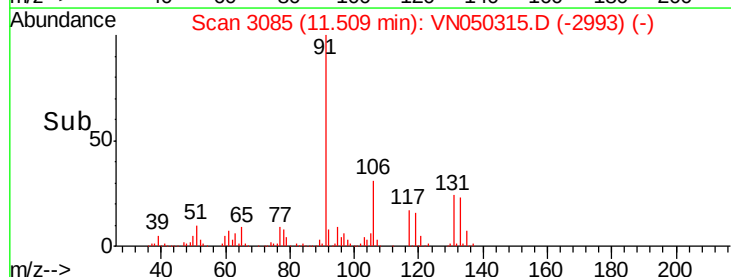
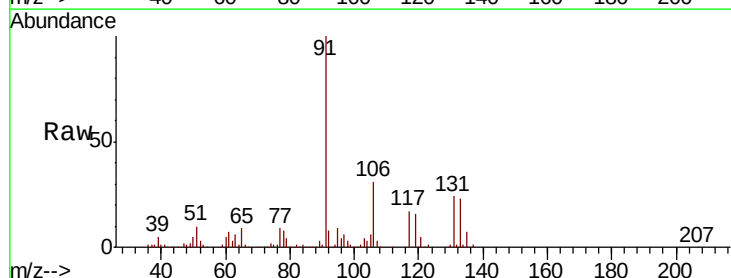
Tgt Ion:131 Resp: 156271

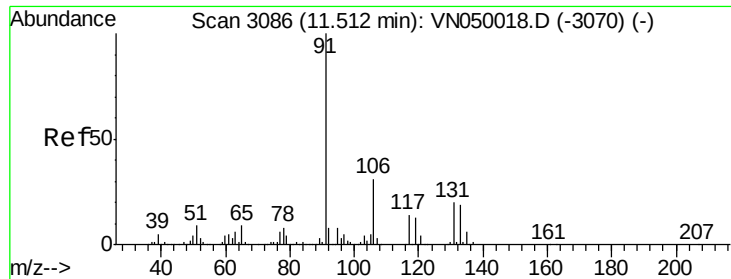
Ion Ratio Lower Upper

131 100

133 95.5 47.3 141.9

119 66.4 32.9 98.7





#67

Ethyl Benzene

Concen: 20.66 ug/l

RT: 11.51 min Scan# 3086

Delta R.T. 0.00 min

Lab File: VN050315.D

Acq: 3 Aug 2018 16:12

Instrument :

MSVOA_N

ClientSampled :

VN0803WBSD02

Tot Ion: 91 Resp: 645820

Ion Ratio Lower Upper

91 100

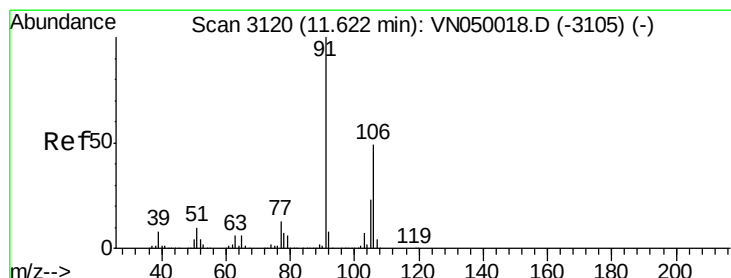
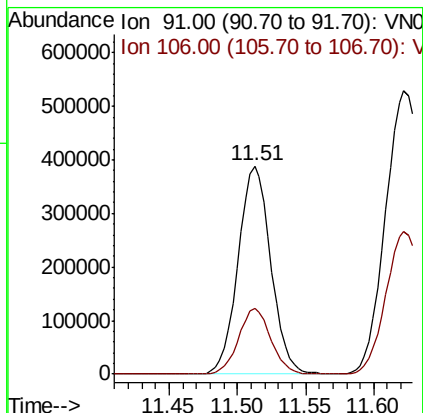
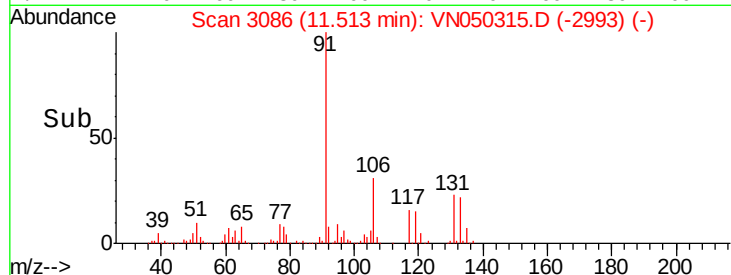
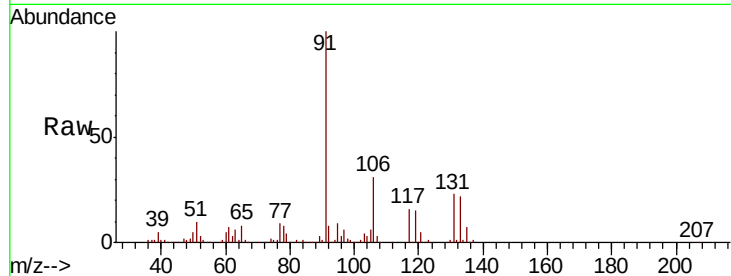
106 31.4 25.0 37.4

Manual Integrations

APPROVED

MMDadoda

8/6/2018 11:38:32 AM



#68

m/p-Xylenes

Concen: 43.05 ug/l

RT: 11.62 min Scan# 3120

Delta R.T. -0.00 min

Lab File: VN050315.D

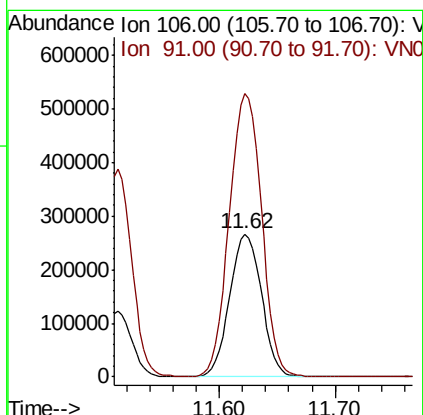
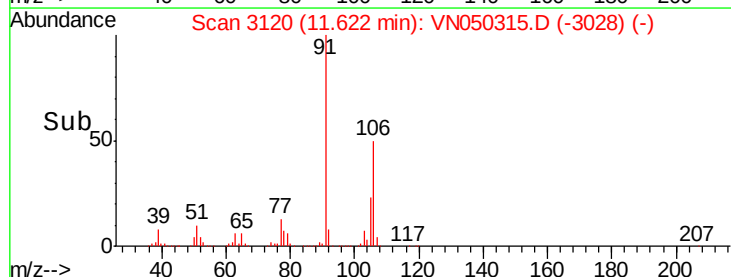
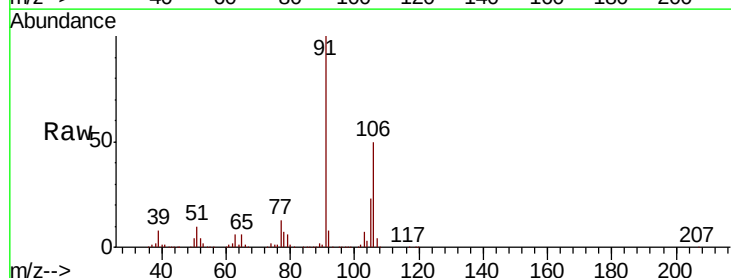
Acq: 3 Aug 2018 16:12

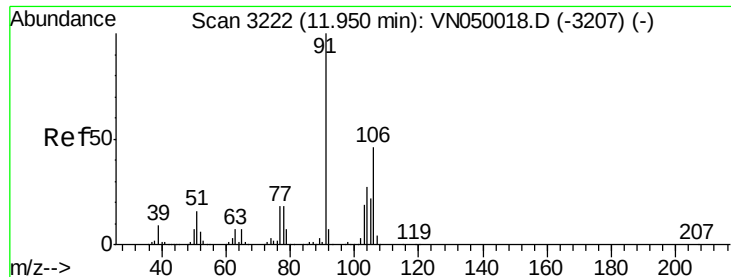
Tgt Ion: 106 Resp: 509022

Ion Ratio Lower Upper

106 100

91 201.0 162.2 243.2





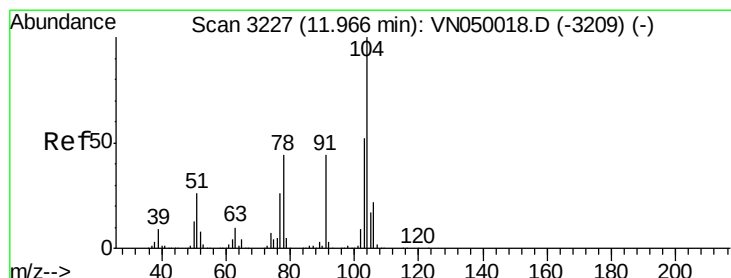
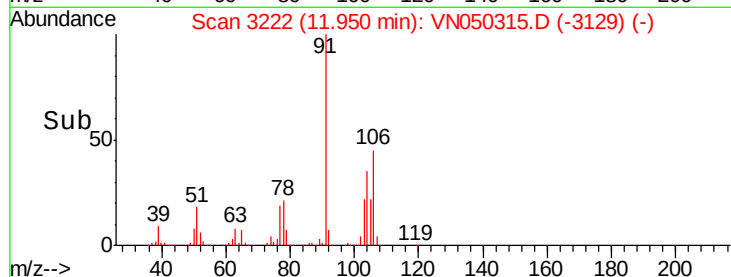
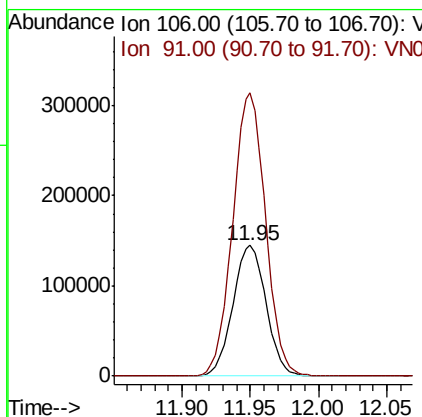
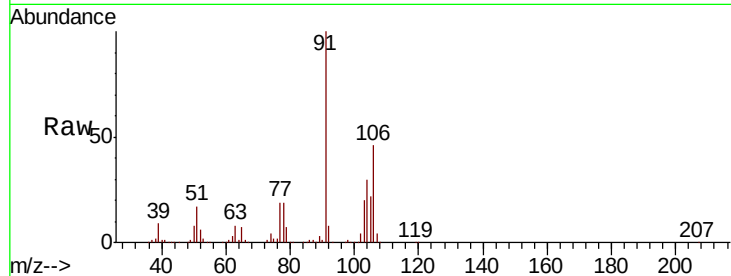
#69
o-Xylene
Concen: 21.72 ug/l
RT: 11.95 min Scan# 3222
Delta R.T. 0.00 min
Lab File: VN050315.D
Acq: 3 Aug 2018 16:12

Instrument :
MSVOA_N
ClientSampleId :
VN0803WBSD02

Tot Ion	Ratio	Lower	Upper
106	100		
91	213.4	107.7	323.1

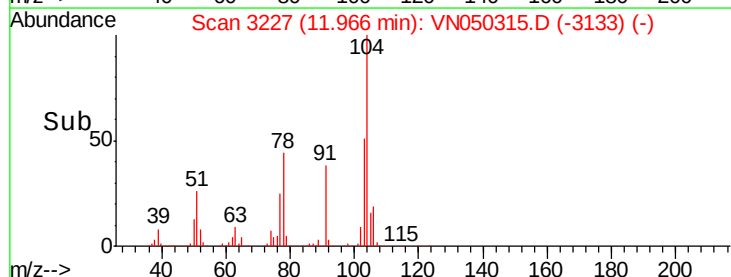
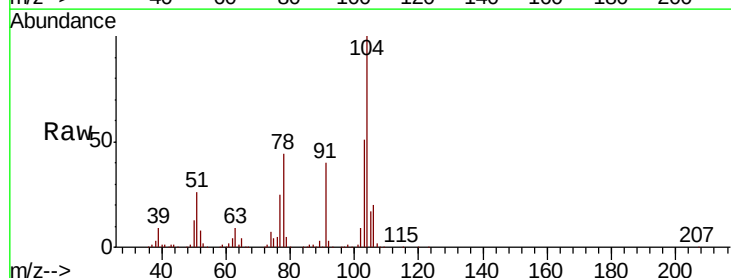
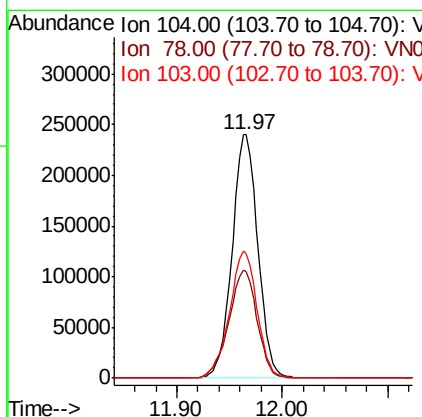
Manual Integrations
APPROVED

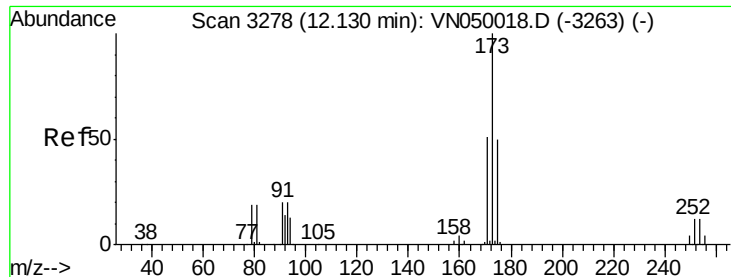
MMDadoda
8/6/2018 11:38:32 AM



#70
Styrene
Concen: 20.73 ug/l
RT: 11.97 min Scan# 3227
Delta R.T. 0.00 min
Lab File: VN050315.D
Acq: 3 Aug 2018 16:12

Tgt Ion	Ratio	Lower	Upper
104	100		
78	48.6	39.3	58.9
103	55.9	45.0	67.6





#71

Bromoform

Concen: 21.96 ug/l

RT: 12.13 min Scan# 3277

Delta R.T. -0.00 min

Lab File: VN050315.D

Acq: 3 Aug 2018 16:12

Instrument :

MSVOA_N

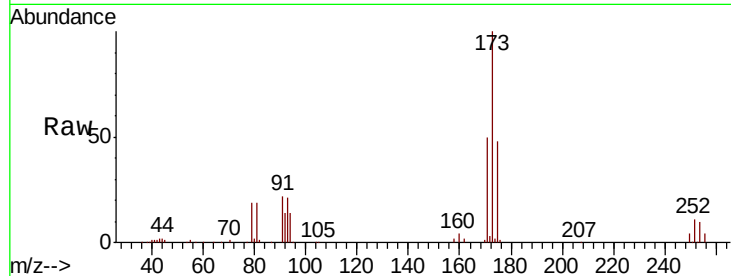
ClientSampled :

VN0803WBSD02

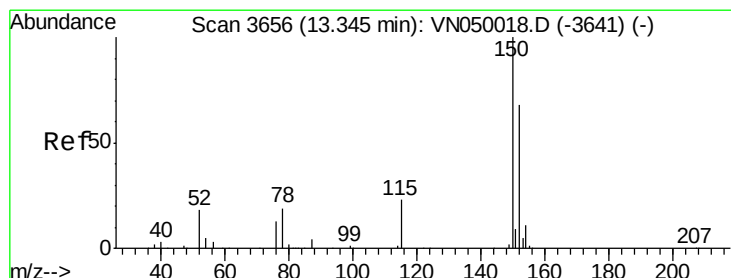
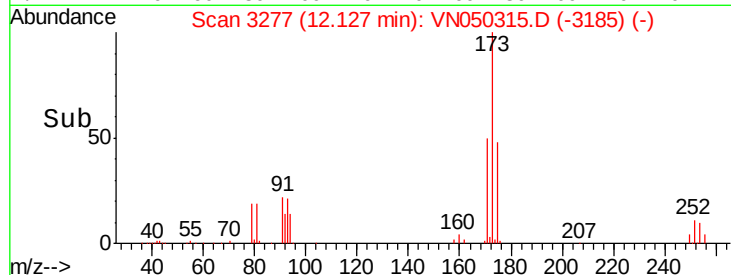
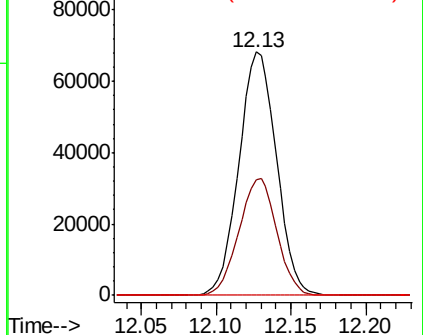
Tot Ion	Ratio	Lower	Upper
173	100		
175	48.1	24.1	72.2
254	0.1	0.2	0.2#

Manual Integrations
APPROVED

MMDadoda
8/6/2018 11:38:32 AM



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

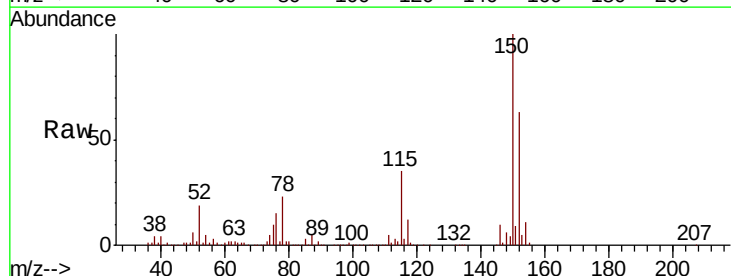
RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

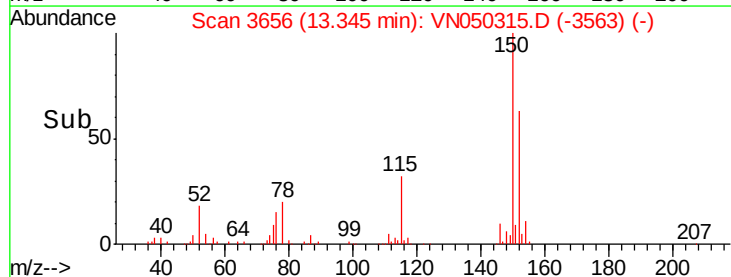
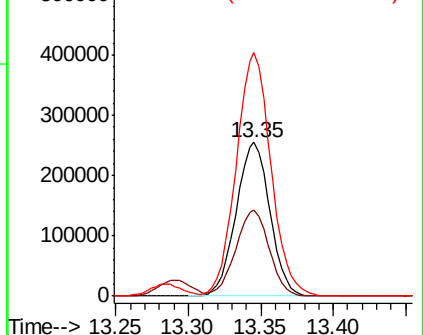
Lab File: VN050315.D

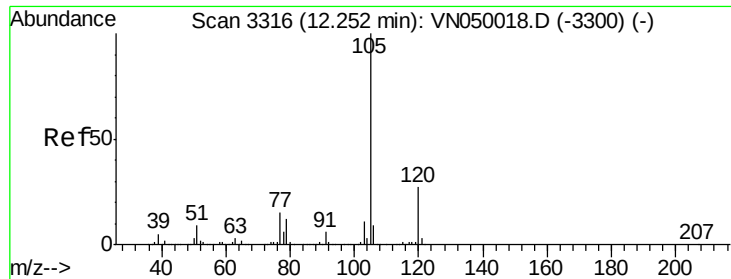
Acq: 3 Aug 2018 16:12

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.4	27.8	83.3
150	162.9	0.0	348.6



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





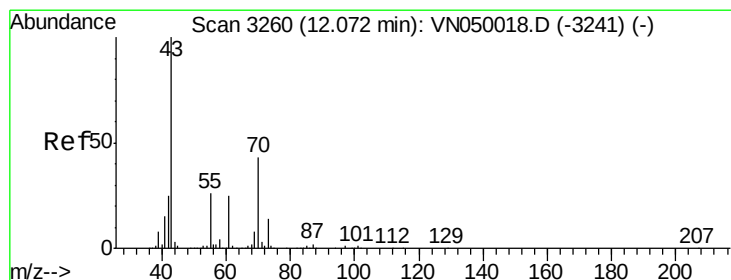
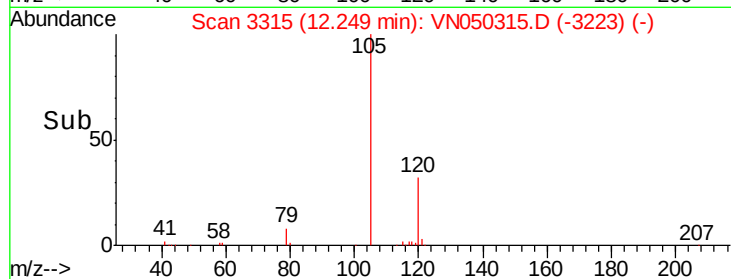
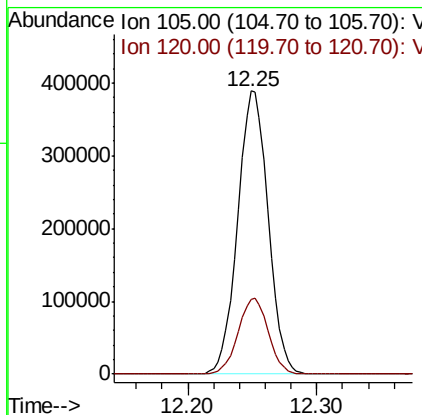
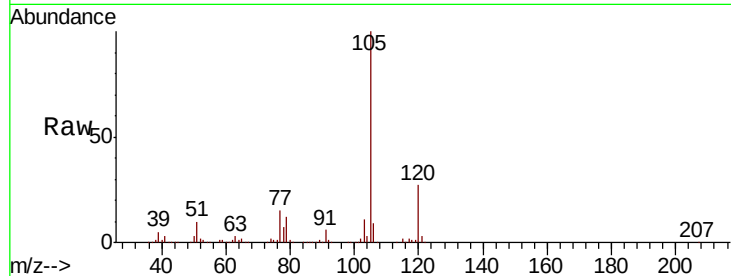
#73
Isopropylbenzene
Concen: 19.98 ug/l
RT: 12.25 min Scan# 3315
Delta R.T. -0.00 min
Lab File: VN050315.D
Acq: 3 Aug 2018 16:12

Instrument :
MSVOA_N
ClientSampleId :
VN0803WBSD02

Tot Ion	Ratio	Lower	Upper
105	100		
120	26.5	13.3	39.8

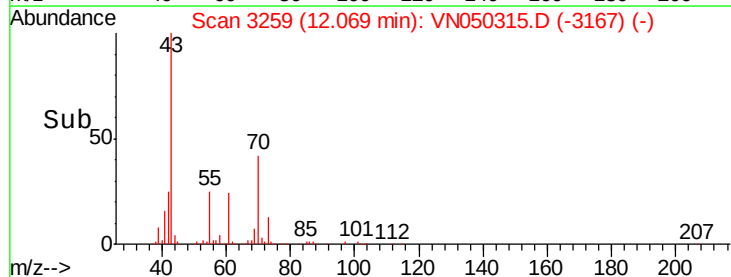
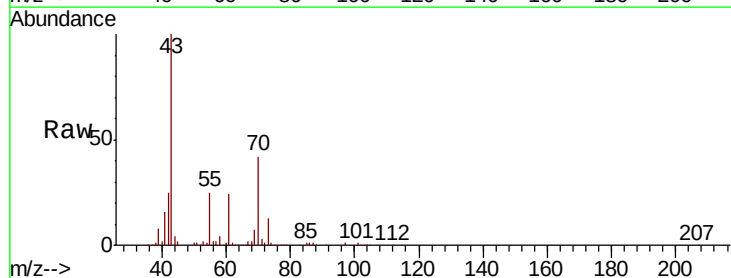
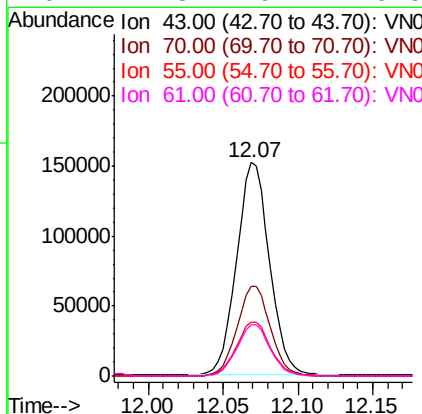
Manual Integrations
APPROVED

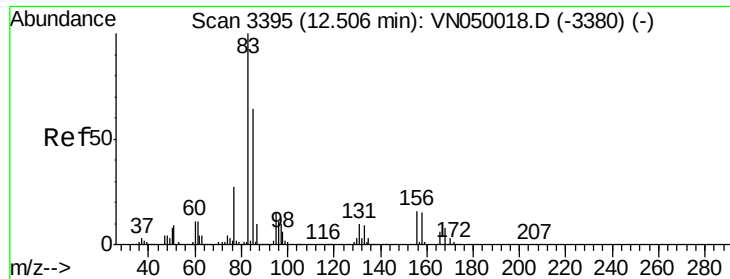
MMDadoda
8/6/2018 11:38:32 AM



#74
N-ethyl acetate
Concen: 23.82 ug/l
RT: 12.07 min Scan# 3259
Delta R.T. -0.00 min
Lab File: VN050315.D
Acq: 3 Aug 2018 16:12

Tgt Ion	Ratio	Lower	Upper
43	100		
70	42.7	34.4	51.6
55	26.5	20.8	31.2
61	24.3	19.7	29.5





#75

1,1,2,2-Tetrachloroethane

Concen: 24.47 ug/l

RT: 12.51 min Scan# 3395

Delta R.T. 0.00 min

Lab File: VN050315.D

Acq: 3 Aug 2018 16:12

Instrument :

MSVOA_N

ClientSampleId :

VN0803WBSD02

Tot Ion: 83 Resp: 216526
Ion Ratio Lower Upper

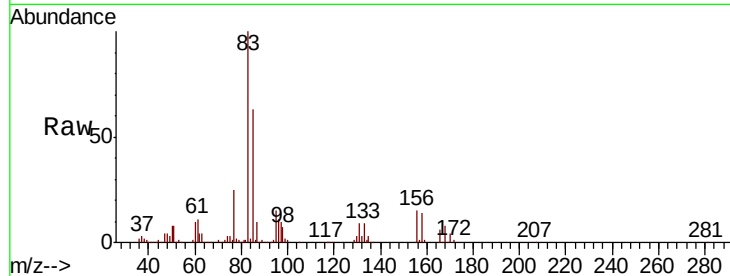
83 100

131 9.9 5.1 15.3

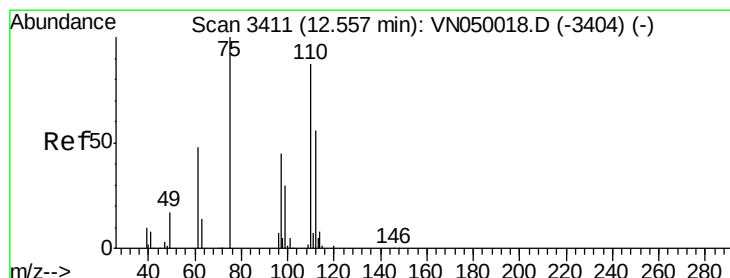
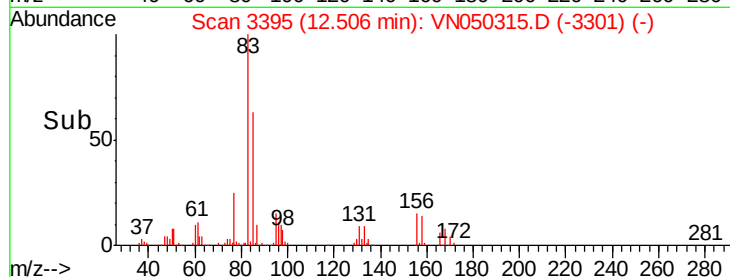
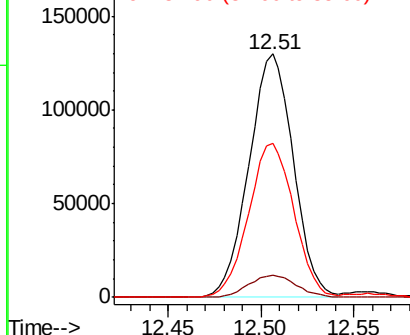
85 64.3 32.3 96.8

Manual Integrations
APPROVED

MMDadoda
8/6/2018 11:38:32 AM



Abundance Ion 82.90 (82.60 to 83.60): VN0
Ion 130.80 (130.50 to 131.50): V
Ion 84.90 (84.60 to 85.60): VN0



#76

1,2,3-Trichloropropane

Concen: 23.20 ug/l m

RT: 12.55 min Scan# 3410

Delta R.T. -0.00 min

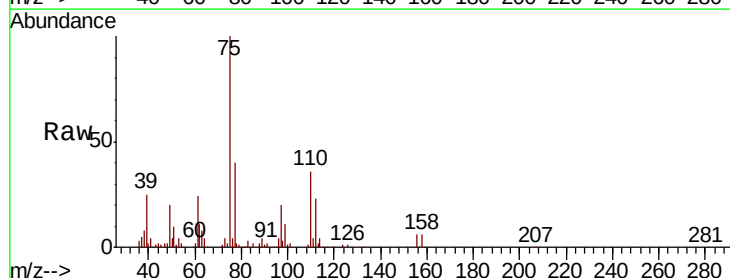
Lab File: VN050315.D

Acq: 3 Aug 2018 16:12

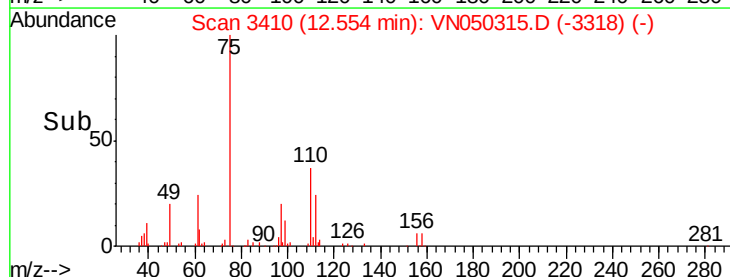
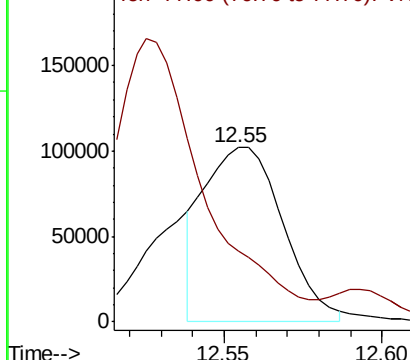
Tgt Ion: 75 Resp: 177626
Ion Ratio Lower Upper

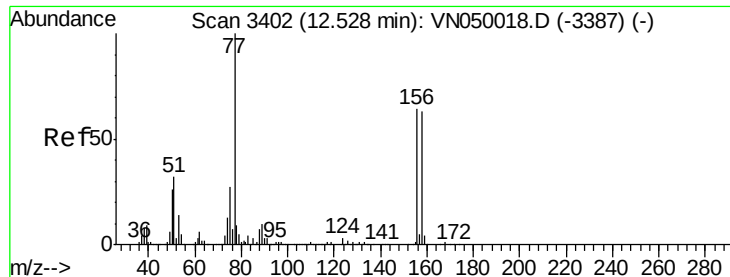
75 100

77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 77.00 (76.70 to 77.70): VN0





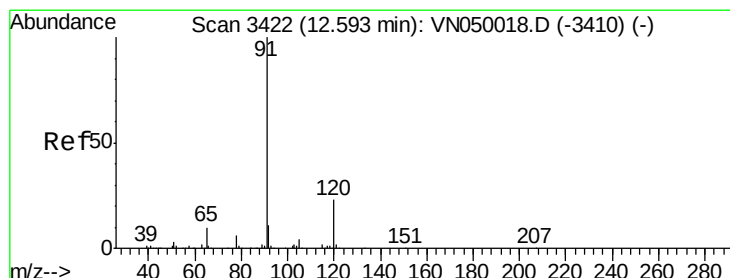
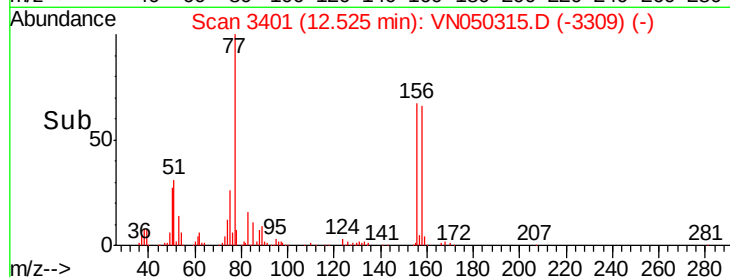
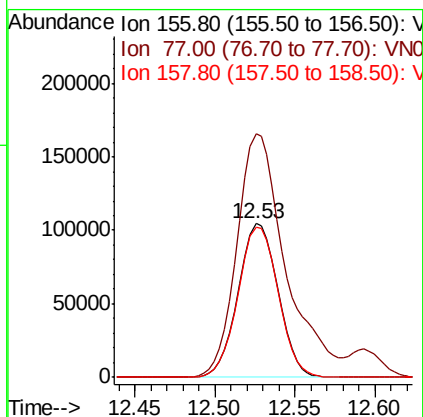
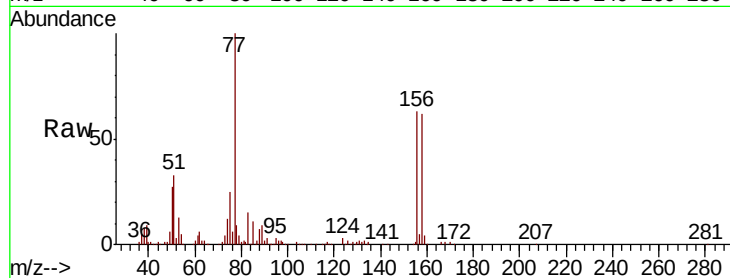
#77
Bromobenzene
Concen: 20.10 ug/l
RT: 12.53 min Scan# 3401
Delta R.T. -0.00 min
Lab File: VN050315.D
Acq: 3 Aug 2018 16:12

Instrument :
MSVOA_N
ClientSampled :
VN0803WBSD02

Tot Ion	Ratio	Lower	Upper
156	100		
77	194.0	91.7	275.1
158	98.5	48.9	146.6

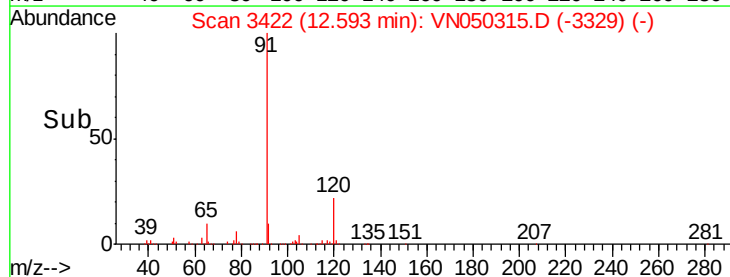
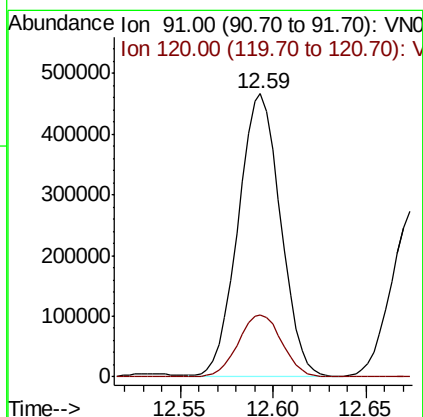
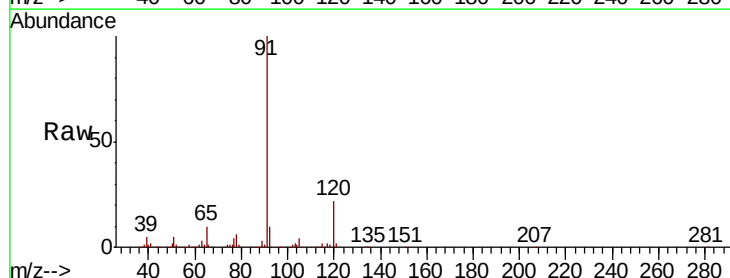
Manual Integrations
APPROVED

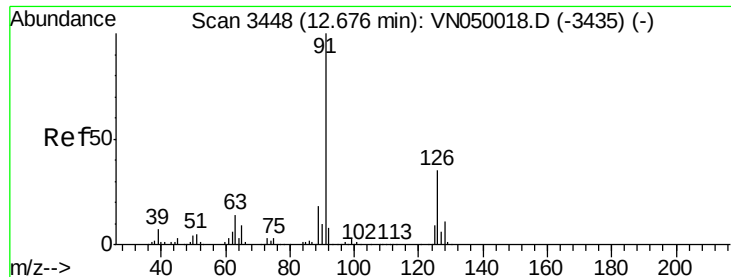
MMDadoda
8/6/2018 11:38:32 AM



#78
n-propylbenzene
Concen: 20.60 ug/l
RT: 12.59 min Scan# 3422
Delta R.T. 0.00 min
Lab File: VN050315.D
Acq: 3 Aug 2018 16:12

Tgt Ion	Ratio	Lower	Upper
91	100		
120	22.7	11.6	34.7





#79

2-Chlorotoluene

Concen: 20.59 ug/l

RT: 12.68 min Scan# 3448

Delta R.T. 0.00 min

Lab File: VN050315.D

Acq: 3 Aug 2018 16:12

Instrument :

MSVOA_N

ClientSampled :

VN0803WBSD02

Tot Ion: 91 Resp: 455705

Ion Ratio Lower Upper

91 100

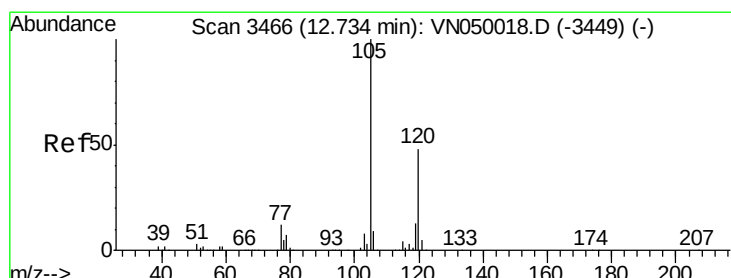
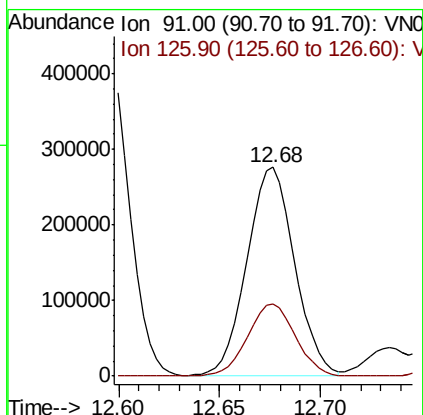
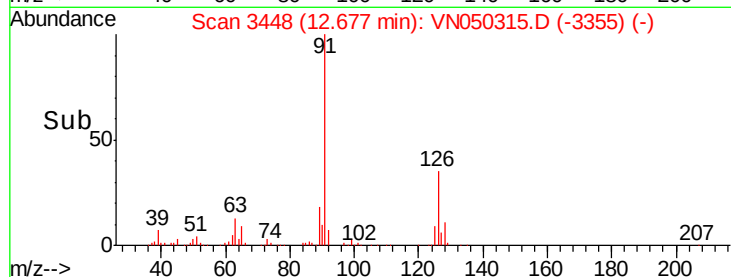
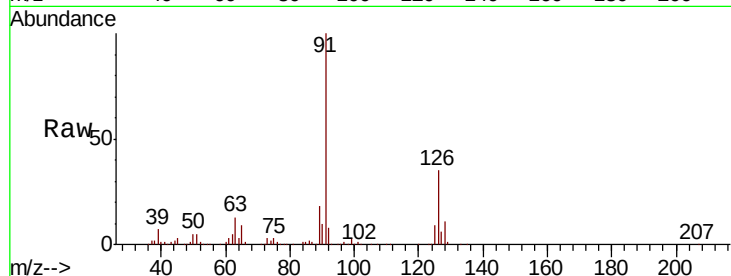
126 34.8 17.6 52.8

Manual Integrations

APPROVED

MMDadoda

8/6/2018 11:38:32 AM



#80

1,3,5-Trimethylbenzene

Concen: 21.39 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. 0.00 min

Lab File: VN050315.D

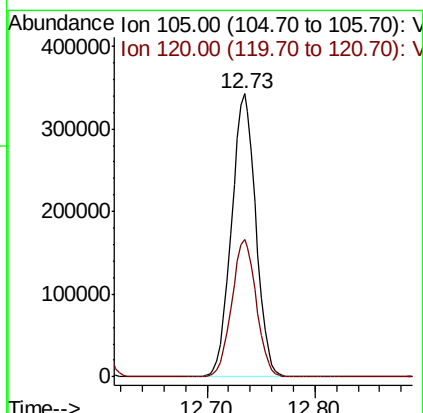
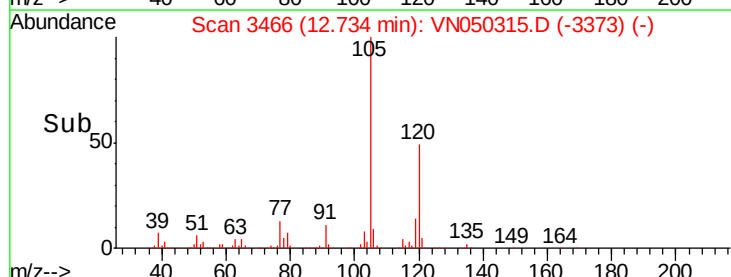
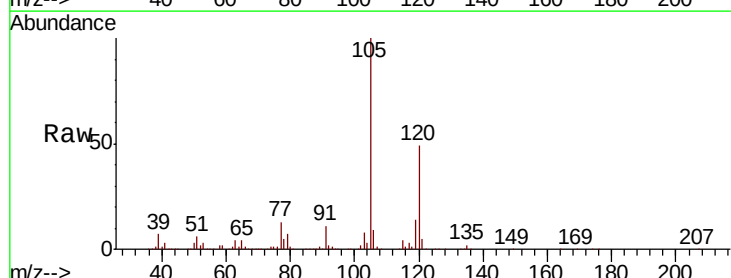
Acq: 3 Aug 2018 16:12

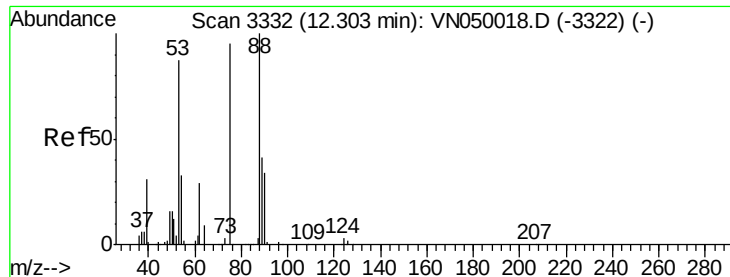
Tgt Ion: 105 Resp: 537578

Ion Ratio Lower Upper

105 100

120 49.2 24.4 73.2





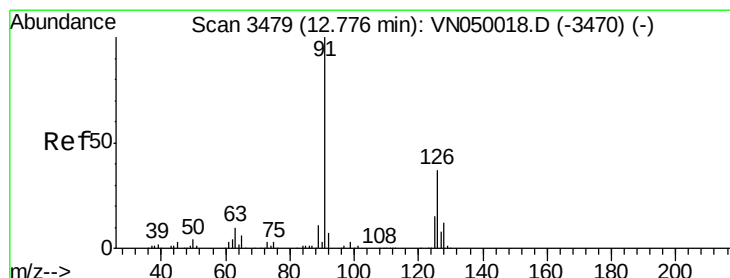
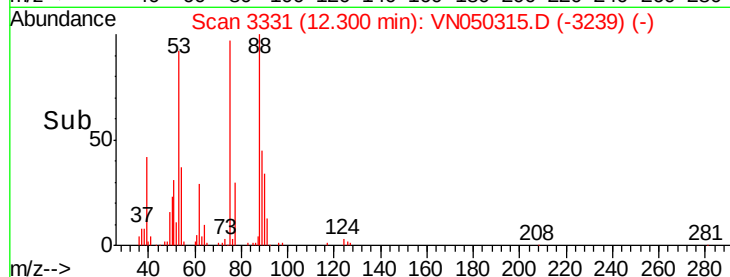
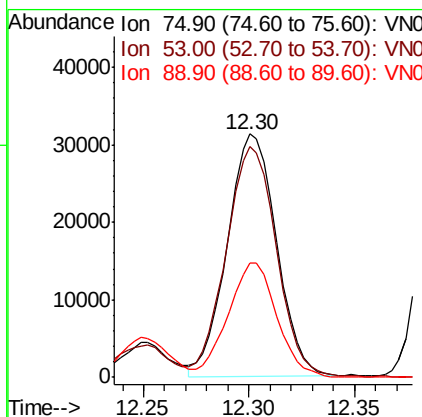
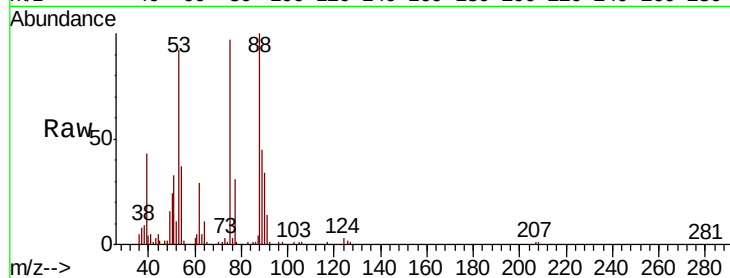
#81
trans-1,4-Dichloro-2-butene
Concen: 20.93 ug/l
RT: 12.30 min Scan# 3331
Delta R.T. -0.00 min
Lab File: VN050315.D
Acq: 3 Aug 2018 16:12

Instrument :
MSVOA_N
ClientSampleId :
VN0803WBSD02

Tot Ion	Ratio	Lower	Upper
75	100		
53	97.9	73.5	110.3
89	46.8	36.0	54.0

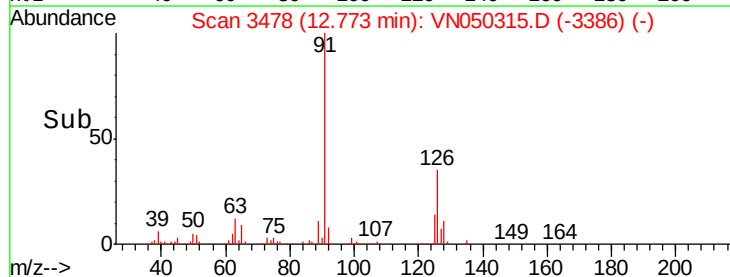
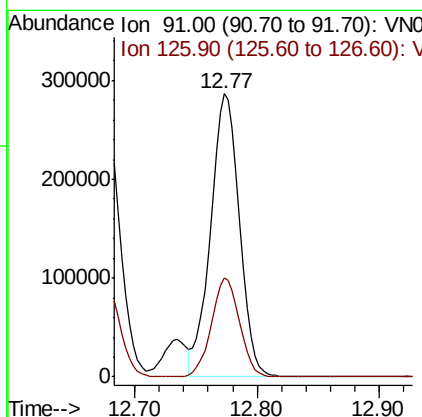
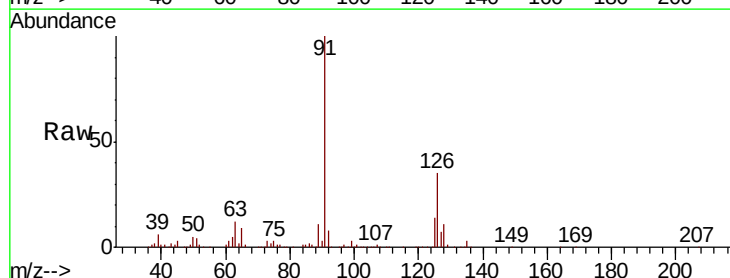
Manual Integrations
APPROVED

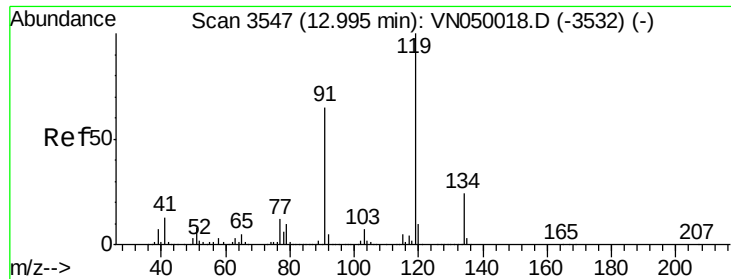
MMDadoda
8/6/2018 11:38:32 AM



#82
4-Chlorotoluene
Concen: 21.63 ug/l
RT: 12.77 min Scan# 3478
Delta R.T. -0.00 min
Lab File: VN050315.D
Acq: 3 Aug 2018 16:12

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.1	17.0	51.0





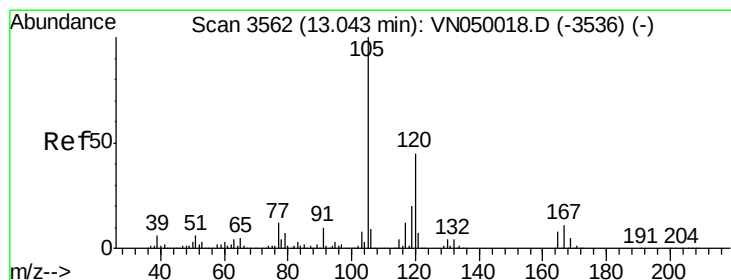
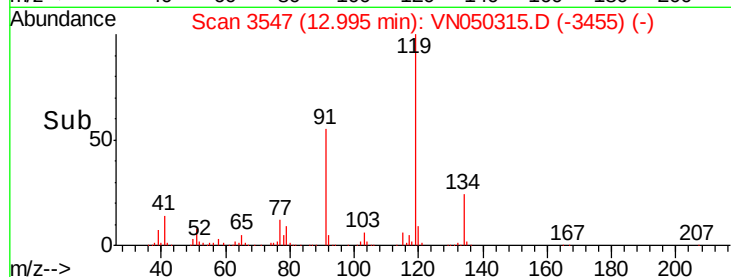
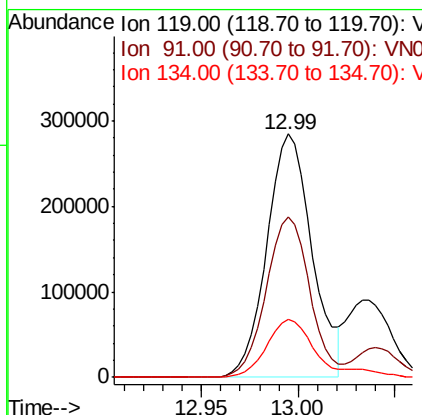
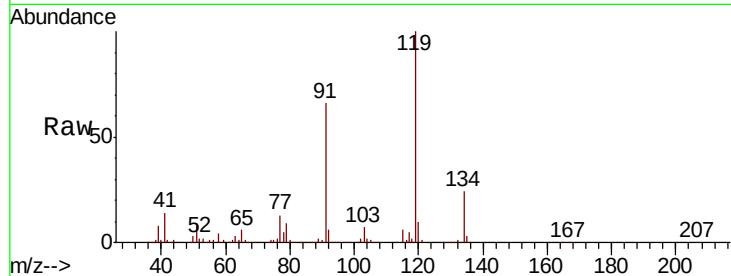
#83
 tert-Butylbenzene
 Concen: 21.11 ug/l
 RT: 12.99 min Scan# 3547
 Delta R.T. -0.00 min
 Lab File: VN050315.D
 Acq: 3 Aug 2018 16:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0803WBSD02

Tot Ion	Ratio	Lower	Upper
119	100		
91	63.8	32.1	96.3
134	24.2	13.2	39.5

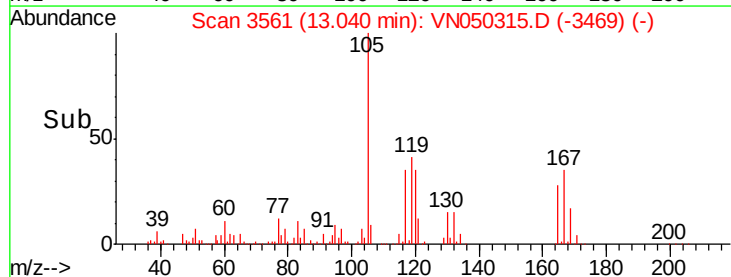
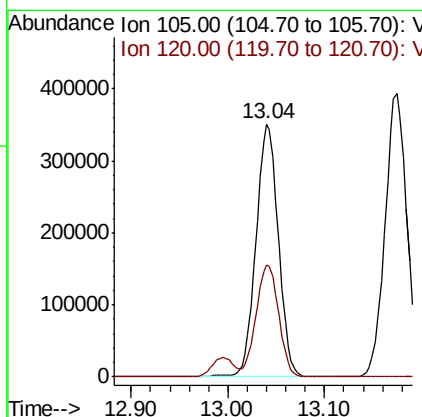
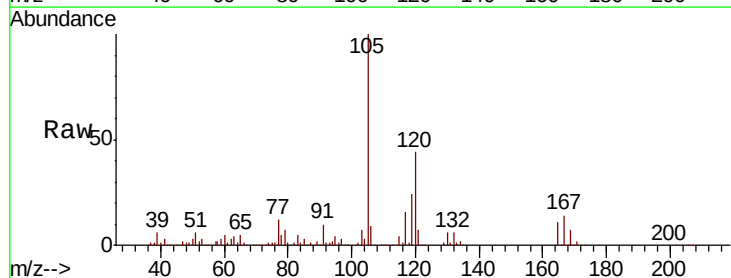
Manual Integrations
 APPROVED

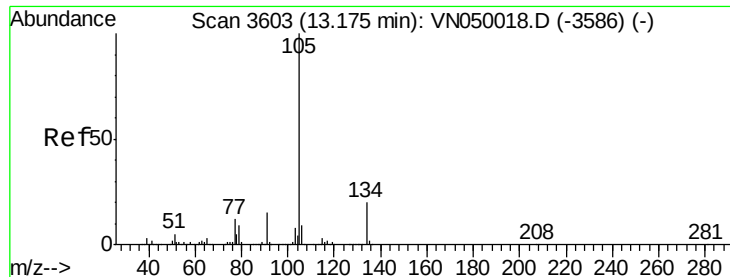
MMDadoda
 8/6/2018 11:38:32 AM



#84
 1,2,4-Trimethylbenzene
 Concen: 22.23 ug/l
 RT: 13.04 min Scan# 3561
 Delta R.T. -0.00 min
 Lab File: VN050315.D
 Acq: 3 Aug 2018 16:12

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.0	22.9	68.7





#85

sec-Butylbenzene

Concen: 20.94 ug/l

RT: 13.17 min Scan# 3603

Delta R.T. 0.00 min

Lab File: VN050315.D

Acq: 3 Aug 2018 16:12

Instrument :

MSVOA_N

ClientSampled :

VN0803WBSD02

Tot Ion:105 Resp: 613623

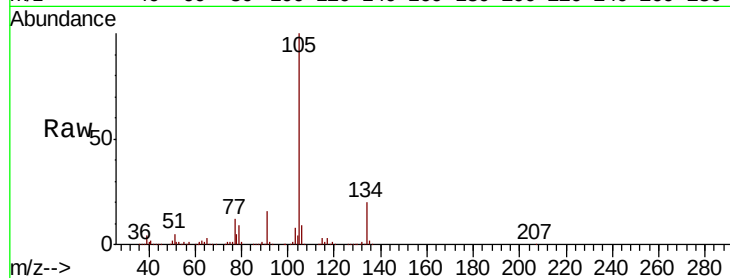
Ion Ratio Lower Upper

105 100

134 19.9 10.1 30.1

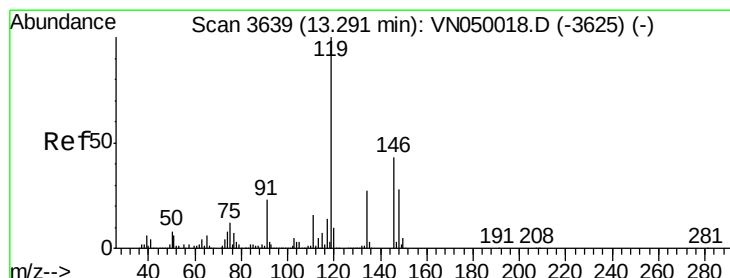
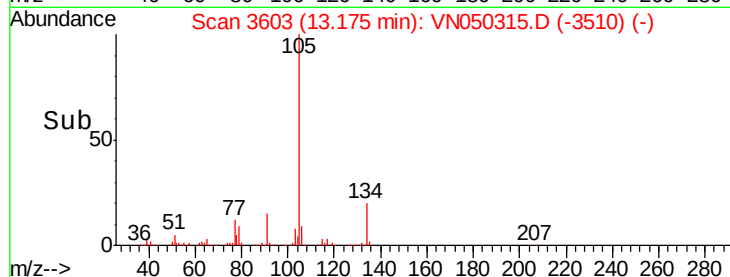
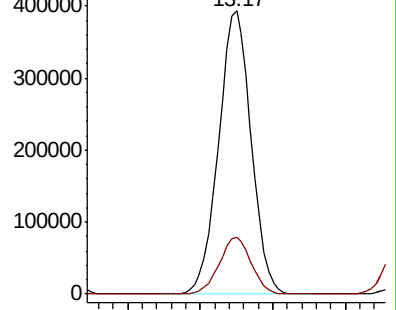
Manual Integrations
APPROVED

MMDadoda
8/6/2018 11:38:32 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 21.25 ug/l

RT: 13.29 min Scan# 3639

Delta R.T. 0.00 min

Lab File: VN050315.D

Acq: 3 Aug 2018 16:12

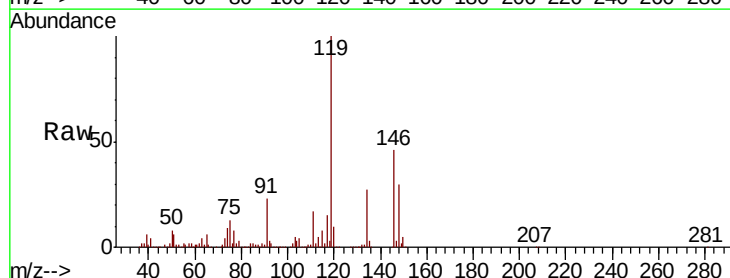
Tgt Ion:119 Resp: 524737

Ion Ratio Lower Upper

119 100

134 27.3 13.3 39.8

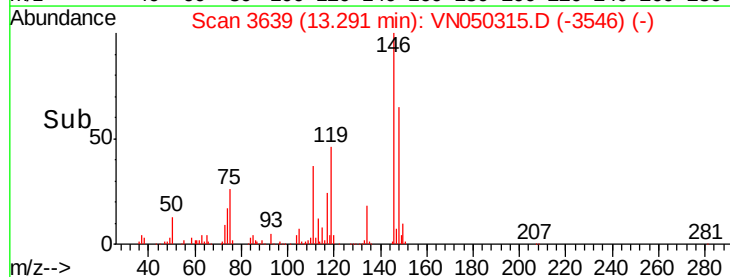
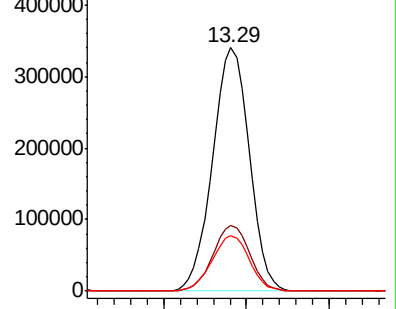
91 23.1 11.4 34.2

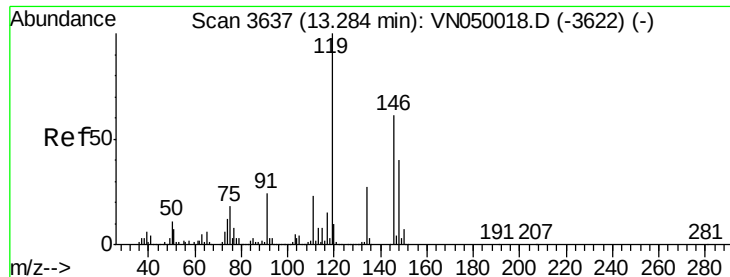


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





#87

1,3-Dichlorobenzene

Concen: 20.90 ug/l

RT: 13.28 min Scan# 3637

Delta R.T. -0.00 min

Lab File: VN050315.D

Acq: 3 Aug 2018 16:12

Instrument :

MSVOA_N

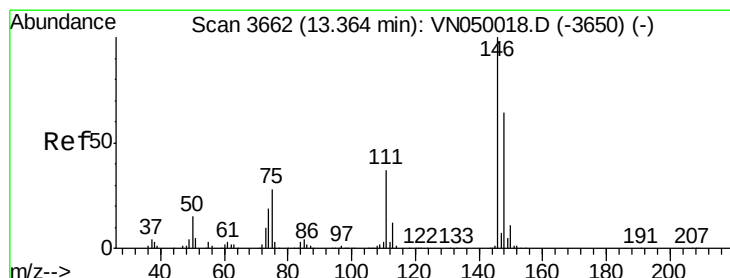
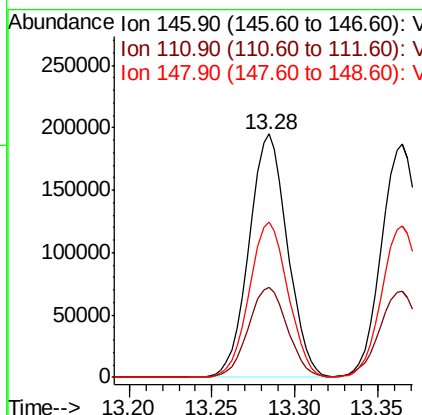
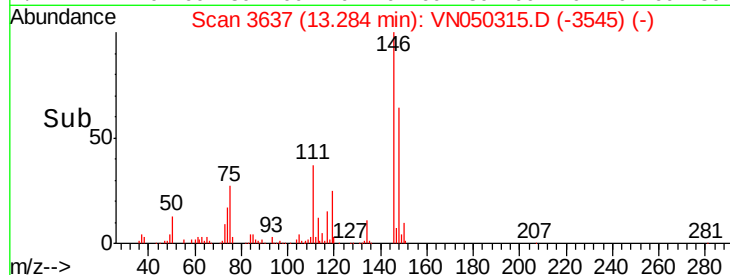
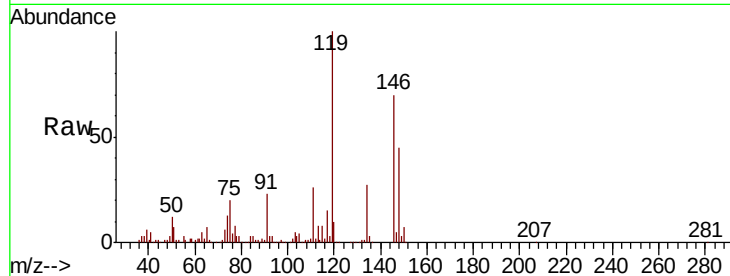
ClientSampled :

VN0803WBSD02

Tot Ion:	146	Resp:	313657
Ion Ratio	Lower	Upper	
146	100		
111	37.6	18.8	56.4
148	64.5	31.9	95.9

Manual Integrations
APPROVED

MMDadoda
8/6/2018 11:38:32 AM



#88

1,4-Dichlorobenzene

Concen: 20.96 ug/l

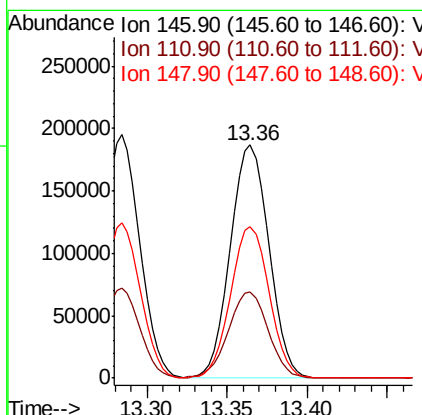
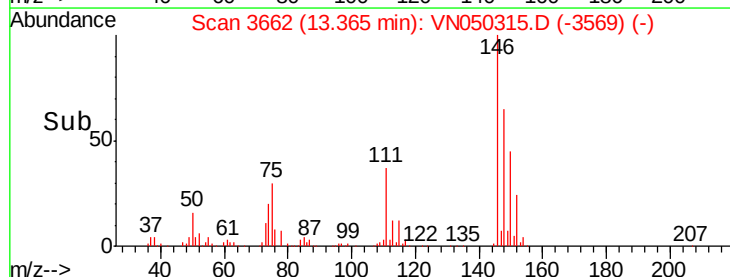
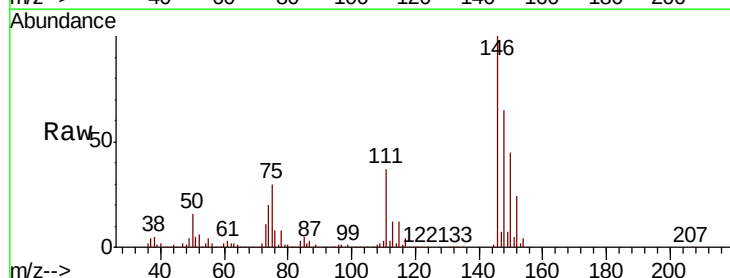
RT: 13.36 min Scan# 3662

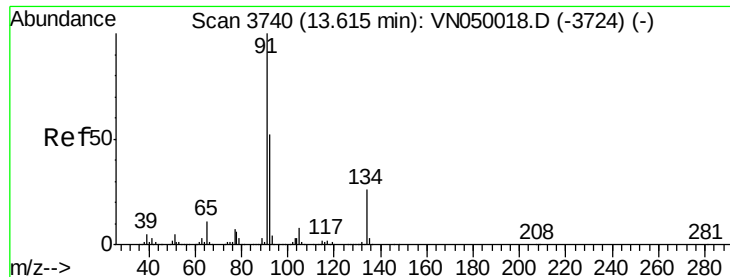
Delta R.T. 0.00 min

Lab File: VN050315.D

Acq: 3 Aug 2018 16:12

Tgt Ion:	146	Resp:	306732
Ion Ratio	Lower	Upper	
146	100		
111	38.1	18.3	54.9
148	64.8	31.9	95.9





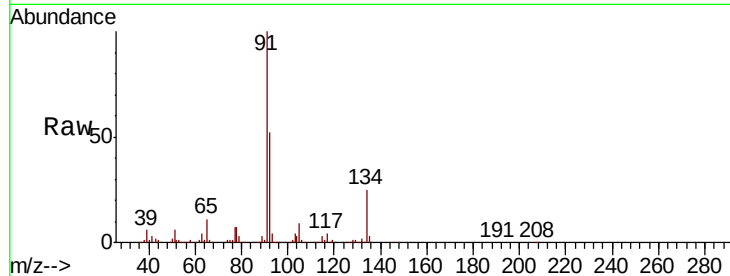
#89
n-Butylbenzene
Concen: 20.78 ug/l
RT: 13.62 min Scan# 3740
Delta R.T. -0.00 min
Lab File: VN050315.D
Acq: 3 Aug 2018 16:12

Instrument :
MSVOA_N
ClientSampled :
VN0803WBSD02

Tot Ion	Ratio	Lower	Upper
91	100		
92	50.9	25.8	77.4
134	25.3	12.8	38.4

Manual Integrations
APPROVED

MMDadoda
8/6/2018 11:38:32 AM

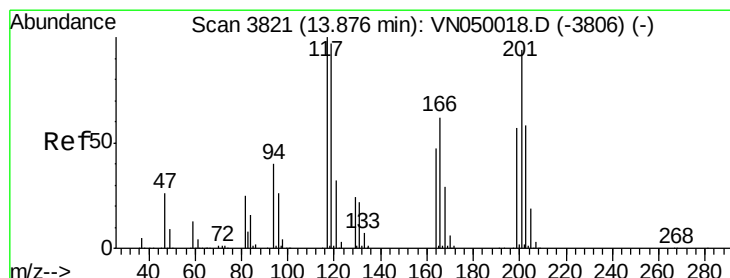
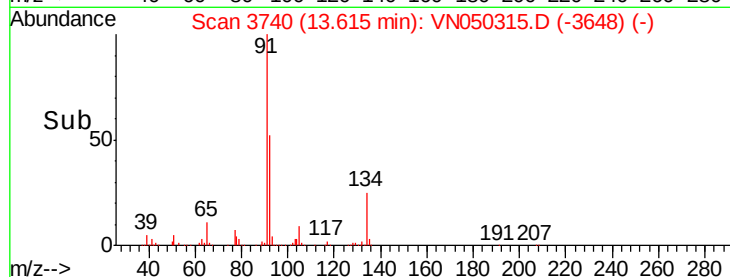
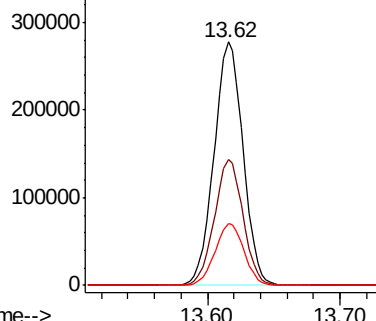


Abundance

Ion 91.00 (90.70 to 91.70): VN050018.D (-3724) (-)

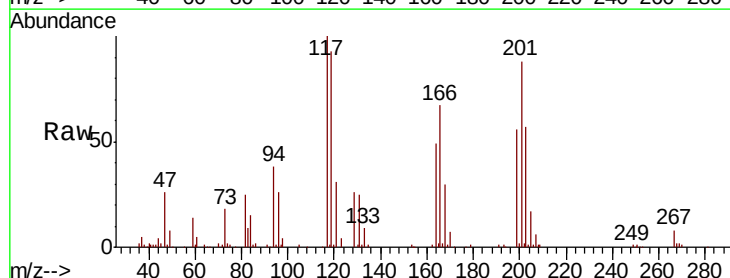
Ion 92.00 (91.70 to 92.70): VN050018.D (-3724) (-)

Ion 134.00 (133.70 to 134.70): VN050018.D (-3724) (-)



#90
Hexachloroethane
Concen: 14.15 ug/l
RT: 13.88 min Scan# 3821
Delta R.T. 0.00 min
Lab File: VN050315.D
Acq: 3 Aug 2018 16:12

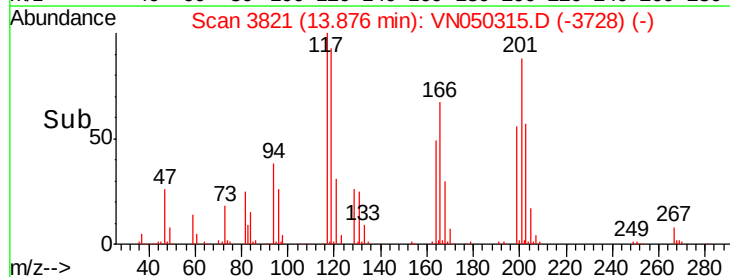
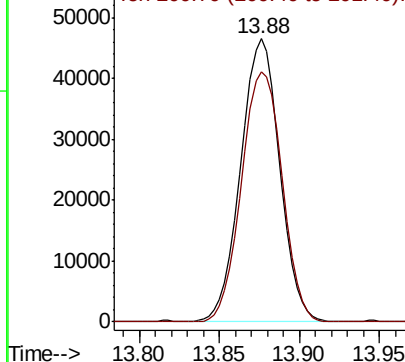
Tgt Ion	Ratio	Lower	Upper
117	100		
201	91.9	45.6	136.8

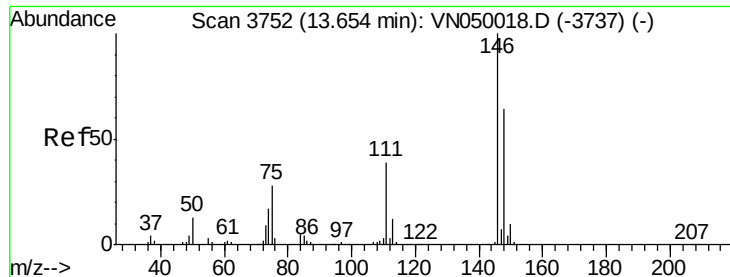


Abundance

Ion 116.80 (116.50 to 117.50): VN050018.D (-3806) (-)

Ion 200.70 (200.40 to 201.40): VN050018.D (-3806) (-)





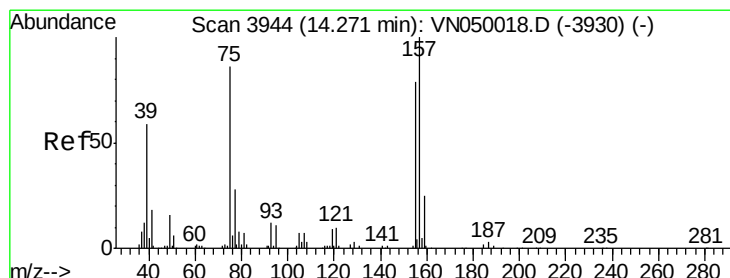
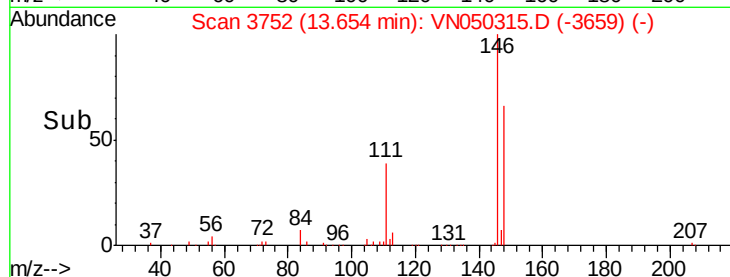
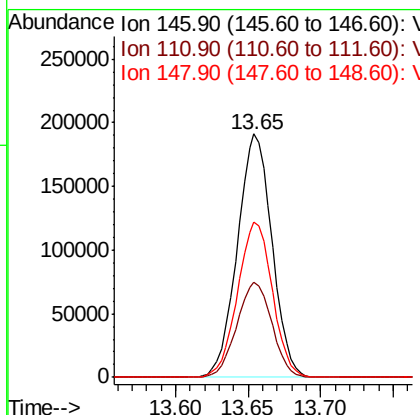
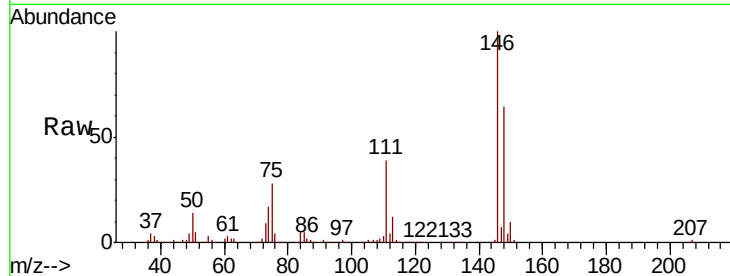
#91
 1,2-Dichlorobenzene
 Concen: 21.11 ug/l
 RT: 13.65 min Scan# 3752
 Delta R.T. 0.00 min
 Lab File: VN050315.D
 Acq: 3 Aug 2018 16:12

Instrument :
 MSVOA_N
 ClientSampled :
 VN0803WBSD02

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.6	19.6	58.7
148	64.1	32.1	96.3

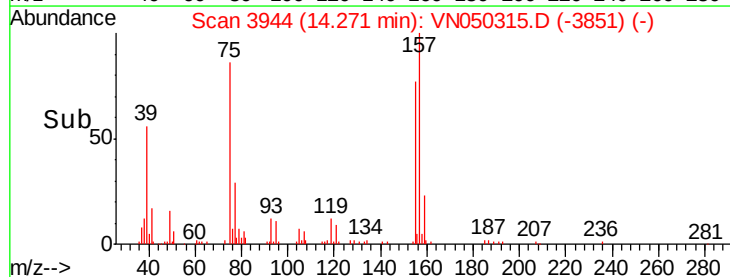
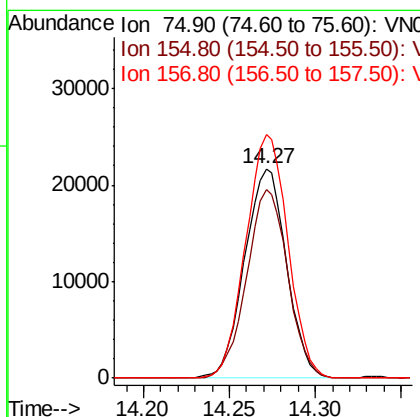
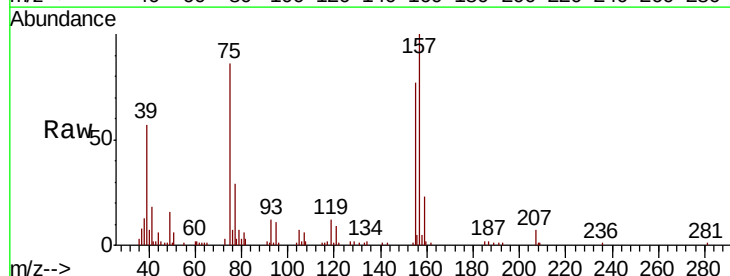
Manual Integrations
 APPROVED

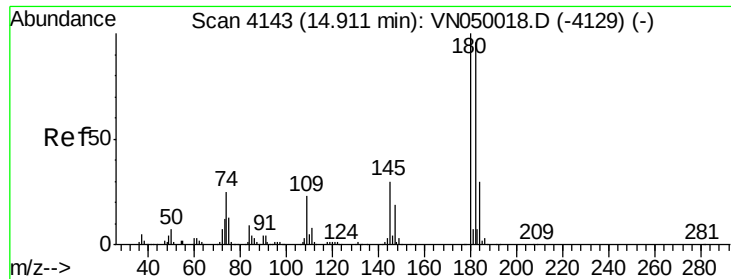
MMDadoda
 8/6/2018 11:38:32 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 25.20 ug/l
 RT: 14.27 min Scan# 3944
 Delta R.T. 0.00 min
 Lab File: VN050315.D
 Acq: 3 Aug 2018 16:12

Tgt Ion	Ratio	Lower	Upper
75	100		
155	88.4	44.8	134.4
157	117.0	57.2	171.6





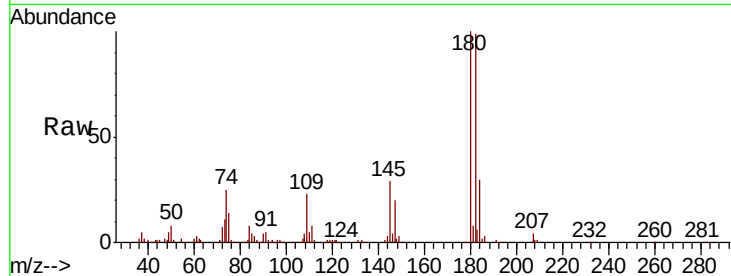
#93
 1,2,4-Trichlorobenzene
 Concen: 22.63 ug/l
 RT: 14.91 min Scan# 4143
 Delta R.T. 0.00 min
 Lab File: VN050315.D
 Acq: 3 Aug 2018 16:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0803WBSD02

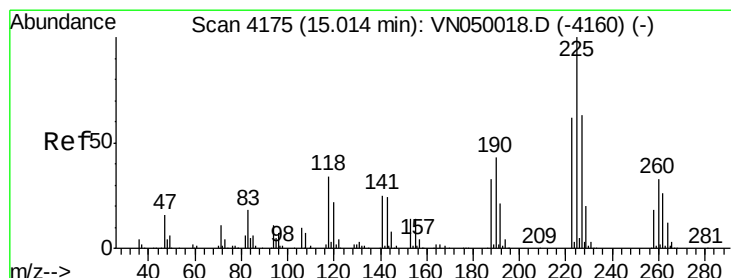
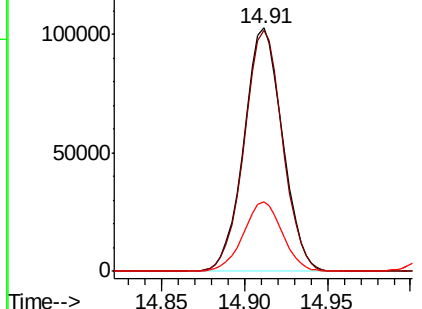
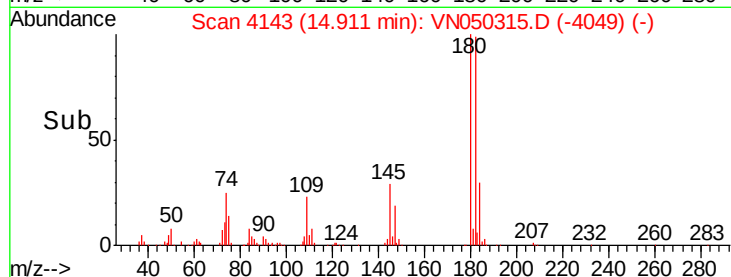
Tot Ion	Ratio	Resp	Lower	Upper
180	100	165735		
182	98.3	46.7	140.1	
145	29.0	13.8	41.4	

Manual Integrations
 APPROVED

MMDadoda
 8/6/2018 11:38:32 AM

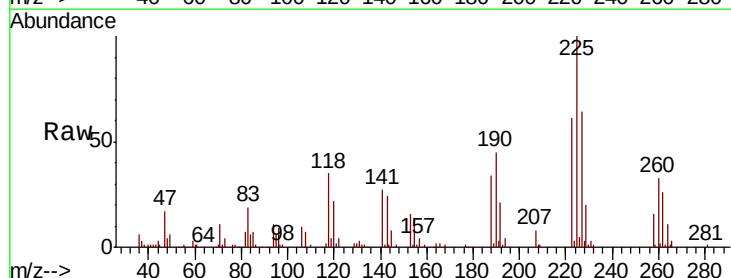


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

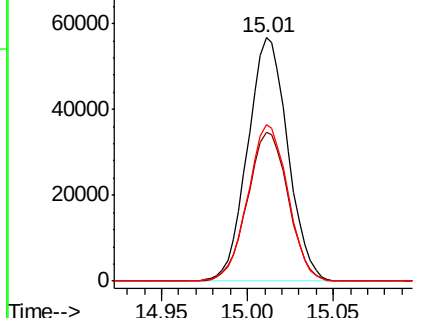
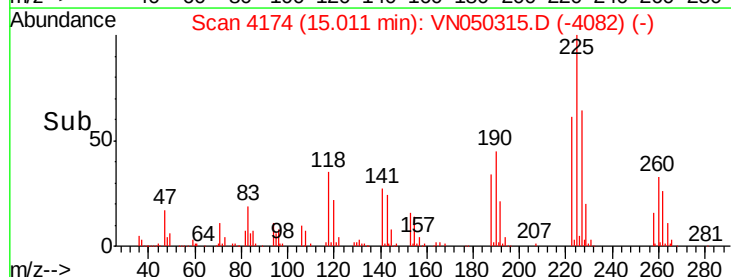


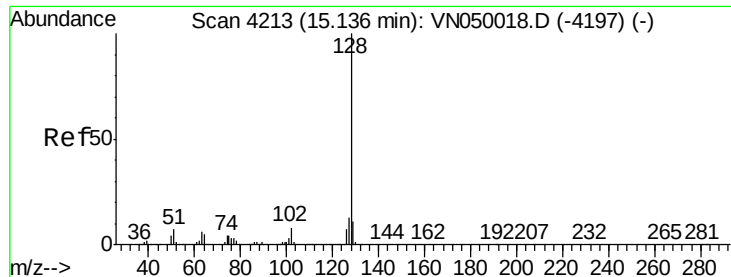
#94
 Hexachlorobutadiene
 Concen: 19.98 ug/l
 RT: 15.01 min Scan# 4174
 Delta R.T. -0.00 min
 Lab File: VN050315.D
 Acq: 3 Aug 2018 16:12

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	91802		
223	62.3	31.4	94.2	
227	64.2	32.1	96.5	



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V





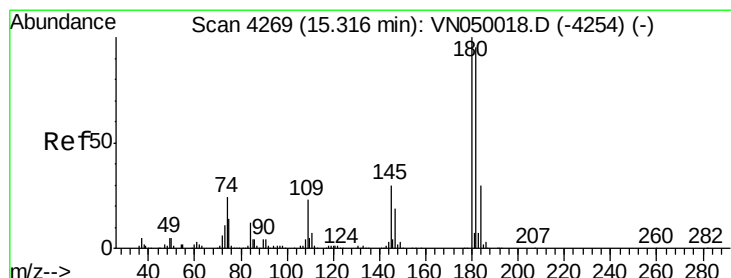
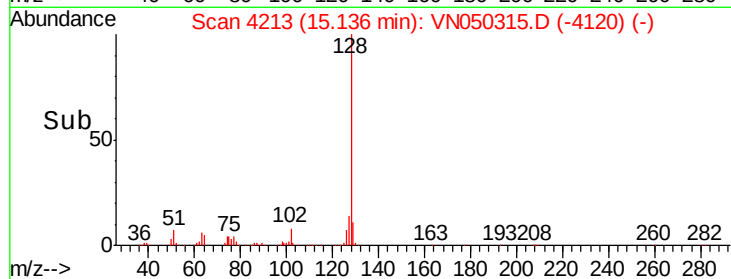
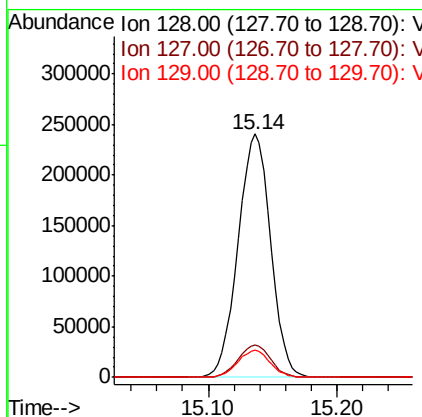
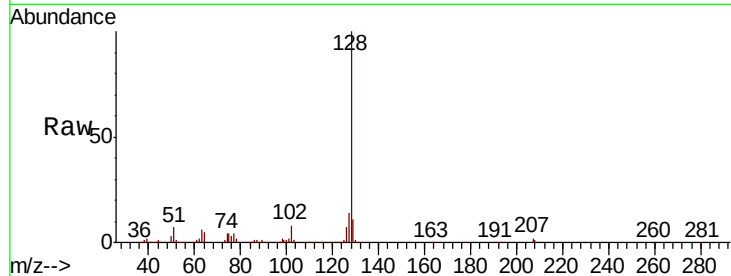
#95
Naphthalene
Concen: 24.93 ug/l
RT: 15.14 min Scan# 4213
Delta R.T. 0.00 min
Lab File: VN050315.D
Acq: 3 Aug 2018 16:12

Instrument :
MSVOA_N
ClientSampleId :
VN0803WBSD02

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.4	10.4	15.6
129	11.1	8.8	13.2

Manual Integrations
APPROVED

MMDadoda
8/6/2018 11:38:32 AM



#96
1,2,3-Trichlorobenzene
Concen: 23.49 ug/l
RT: 15.32 min Scan# 4269
Delta R.T. -0.00 min
Lab File: VN050315.D
Acq: 3 Aug 2018 16:12

Tgt Ion	Ratio	Lower	Upper
180	100		
182	92.8	48.1	144.4
145	30.6	15.3	45.9

