

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120518\
 Data File : VN052668.D
 Acq On : 5 Dec 2018 11:33
 Operator : MD\SY
 Sample : VN1205WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1205WBSD01

Manual Integrations
 APPROVED

MMDadoda
 12/6/2018 9:09:01 AM

Quant Time: Dec 06 04:49:09 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N112718W.M
 Quant Title : SW846 8260
 QLast Update : Mon Dec 03 03:24:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	938890	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1454806	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1279620	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	570832	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	539874	52.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.62%	
35) Dibromofluoromethane	7.59	113	485653	54.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.30%	
50) Toluene-d8	10.09	98	1848940	52.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.92%	
62) 4-Bromofluorobenzene	12.40	95	624034	53.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.38%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	159101	18.098	ug/l	99
3) Chloromethane	2.06	50	209578	18.060	ug/l	100
4) Vinyl Chloride	2.19	62	218589	18.337	ug/l	100
5) Bromomethane	2.57	94	136721	18.382	ug/l	96
6) Chloroethane	2.71	64	136594	18.917	ug/l	99
7) Trichlorofluoromethane	3.02	101	280707	19.170	ug/l	100
8) Diethyl Ether	3.41	74	110855	20.501	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	3.76	101	181187	19.830	ug/l	99
10) Methyl Iodide	3.96	142	256828	21.105	ug/l	99
11) Tert butyl alcohol	4.78	59	57109	111.589	ug/l	99
12) 1,1-Dichloroethene	3.74	96	169923	19.321	ug/l	99
13) Acrolein	3.61	56	73650	82.801	ug/l	100
14) Allyl chloride	4.33	41	293463	19.360	ug/l	99
15) Acrylonitrile	4.99	53	334404	103.222	ug/l	99
16) Acetone	3.82	43	286518	106.261	ug/l	100
17) Carbon Disulfide	4.06	76	466877	16.869	ug/l	100
18) Methyl Acetate	4.33	43	170155	22.000	ug/l	100
19) Methyl tert-butyl Ether	5.05	73	487553	20.835	ug/l	99
20) Methylene Chloride	4.55	84	203784	19.313	ug/l	97
21) trans-1,2-Dichloroethene	5.05	96	181503	19.323	ug/l	96
22) Diisopropyl ether	5.95	45	635671	19.965	ug/l	100
23) Vinyl Acetate	5.90	43	1989405	100.314	ug/l	100
24) 1,1-Dichloroethane	5.85	63	361194	19.868	ug/l	99
25) 2-Butanone	6.83	43	399231	104.461	ug/l	98
26) 2,2-Dichloropropane	6.83	77	261149	20.754	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	215645	19.708	ug/l	99
28) Bromochloromethane	7.19	49	169923	20.464	ug/l	94
29) Tetrahydrofuran	7.21	42	246676	100.069	ug/l	98
30) Chloroform	7.37	83	355135	19.580	ug/l	98
31) Cyclohexane	7.65	56	327229	18.366	ug/l	93
32) 1,1,1-Trichloroethane	7.57	97	290905	20.243	ug/l	99
36) 1,1-Dichloropropene	7.79	75	266772	19.418	ug/l	100
37) Ethyl Acetate	6.93	43	171495	20.454	ug/l	99
38) Carbon Tetrachloride	7.77	117	253068	20.349	ug/l	98

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MMDadoda
 12/6/2018 9:09:01 AM

Quant Time: Dec 06 04:49:09 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N112718W.M
 Quant Title : SW846 8260
 QLast Update : Mon Dec 03 03:24:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	313233	18.759	ug/l	99
40) Benzene	8.04	78	808250	19.741	ug/l	99
41) Methacrylonitrile	7.17	41	85613	18.677	ug/l #	88
42) 1,2-Dichloroethane	8.13	62	254475	20.527	ug/l	99
43) Isopropyl Acetate	8.16	43	306643	21.612	ug/l #	87
44) Trichloroethene	8.84	130	210503	20.072	ug/l	97
45) 1,2-Dichloropropane	9.12	63	220283	20.237	ug/l	99
46) Dibromomethane	9.21	93	127067	21.087	ug/l	98
47) Bromodichloromethane	9.40	83	271438	20.719	ug/l	99
48) Methyl methacrylate	9.20	41	149490	20.206	ug/l	97
49) 1,4-Dioxane	9.20	88	36234	471.902	ug/l	99
51) 4-Methyl-2-Pentanone	9.99	43	855528	107.467	ug/l	98
52) Toluene	10.16	92	497355	20.446	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	261531	20.751	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	309782	20.510	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	182645	21.346	ug/l	98
56) Ethyl methacrylate	10.43	69	227501	20.809	ug/l	99
57) 1,3-Dichloropropane	10.71	76	312323	20.672	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	655532	105.579	ug/l	99
59) 2-Hexanone	10.75	43	583807	109.267	ug/l	100
60) Dibromochloromethane	10.90	129	195316	21.017	ug/l	100
61) 1,2-Dibromoethane	11.01	107	179385	21.108	ug/l	100
64) Tetrachloroethene	10.63	164	206282	20.792	ug/l	98
65) Chlorobenzene	11.43	112	543774	20.609	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	192958	21.032	ug/l	99
67) Ethyl Benzene	11.51	91	938227	20.305	ug/l	100
68) m/p-Xylenes	11.62	106	709867	41.268	ug/l	100
69) o-Xylene	11.95	106	344337	20.614	ug/l	99
70) Styrene	11.96	104	557322	20.948	ug/l	100
71) Bromoform	12.13	173	134016	22.062	ug/l #	99
73) Isopropylbenzene	12.25	105	927186	20.703	ug/l	100
74) N-amyl acetate	12.07	43	241834	21.374	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.51	83	219156	21.512	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	184161m	20.921	ug/l	
77) Bromobenzene	12.53	156	231197	20.886	ug/l	99
78) n-propylbenzene	12.59	91	1045526	20.550	ug/l	99
79) 2-Chlorotoluene	12.67	91	623321	20.573	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	754291	21.118	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	56309	21.363	ug/l	99
82) 4-Chlorotoluene	12.77	91	619470	20.287	ug/l	99
83) tert-Butylbenzene	12.99	119	677314	21.271	ug/l	98
84) 1,2,4-Trimethylbenzene	13.04	105	765327	21.380	ug/l	98
85) sec-Butylbenzene	13.17	105	895015	20.636	ug/l	99
86) p-Isopropyltoluene	13.29	119	761628	20.618	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	398741	20.593	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	389217	20.407	ug/l	98
89) n-Butylbenzene	13.62	91	617182	20.090	ug/l	100
90) Hexachloroethane	13.88	117	127670	20.412	ug/l	97
91) 1,2-Dichlorobenzene	13.65	146	390285	21.097	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	31799	21.824	ug/l	98

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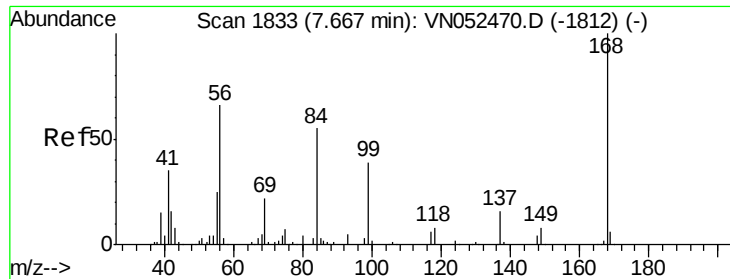
Manual Integrations
APPROVED

MMDadoda
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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N112718W.M
Quant Title : SW846 8260
QLast Update : Mon Dec 03 03:24:02 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	186038	20.148	ug/l	99
94) Hexachlorobutadiene	15.01	225	125471	21.083	ug/l	98
95) Naphthalene	15.13	128	394715	20.535	ug/l	100
96) 1,2,3-Trichlorobenzene	15.32	180	181350	21.128	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN052668.D

Acq: 5 Dec 2018 11:33

Instrument :

MSVOA_N

ClientSampleId :

VN1205WBSD01

Tot Ion:168 Resp: 938890

Ion Ratio Lower Upper

168 100

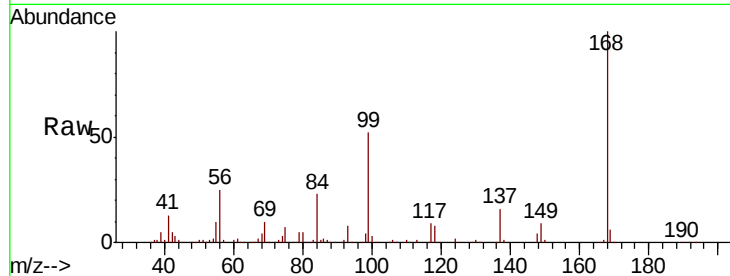
99 51.5 41.7 62.5

Manual Integrations

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12/6/2018 9:09:01 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

400000

300000

200000

100000

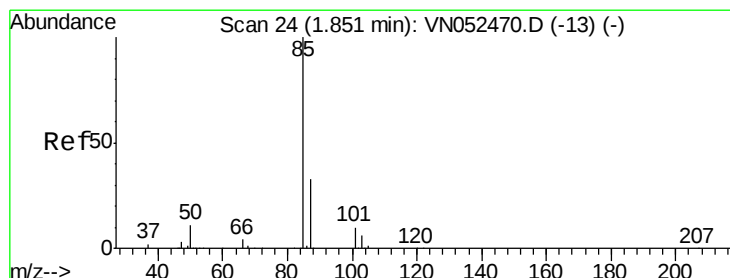
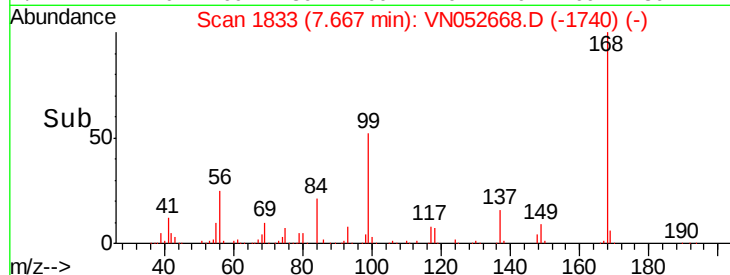
0

7.60

7.70

7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 18.098 ug/l

RT: 1.85 min Scan# 25

Delta R.T. 0.00 min

Lab File: VN052668.D

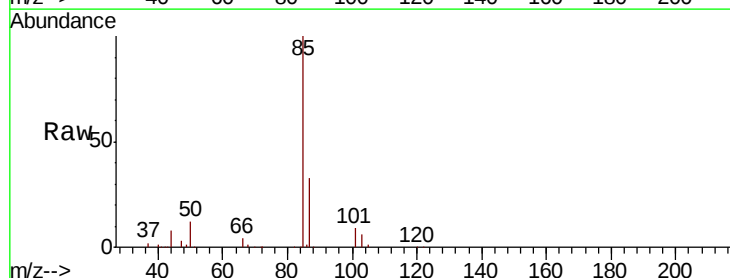
Acq: 5 Dec 2018 11:33

Tgt Ion: 85 Resp: 159101

Ion Ratio Lower Upper

85 100

87 33.0 16.7 50.1



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

1.85

100000

50000

0

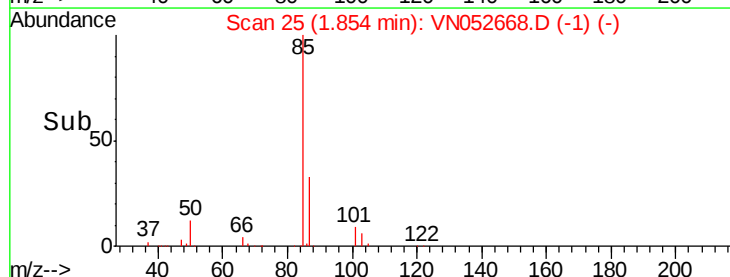
1.80

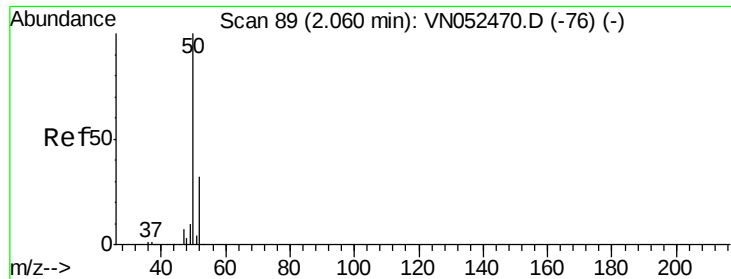
1.85

1.90

1.95

Time-->





#3

Chloromethane

Concen: 18.060 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN052668.D

Acq: 5 Dec 2018 11:33

Instrument :

MSVOA_N

ClientSampleId :

VN1205WBSD01

Tot Ion: 50 Resp: 209578

Ion Ratio Lower Upper

50 100

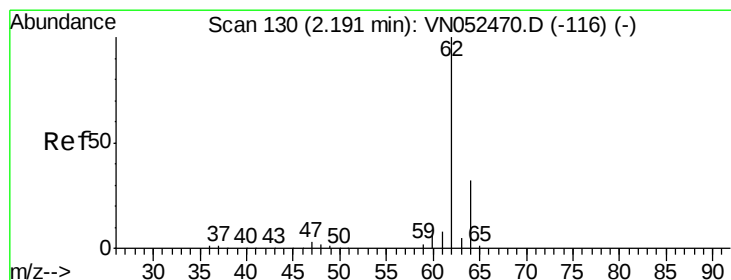
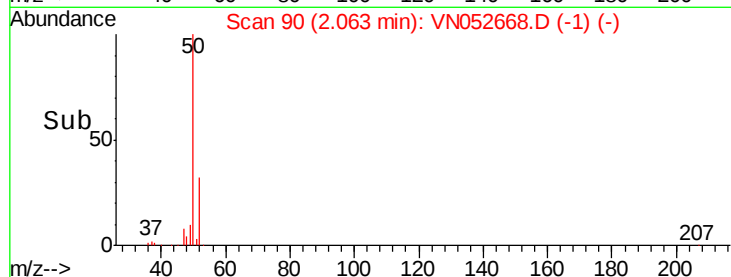
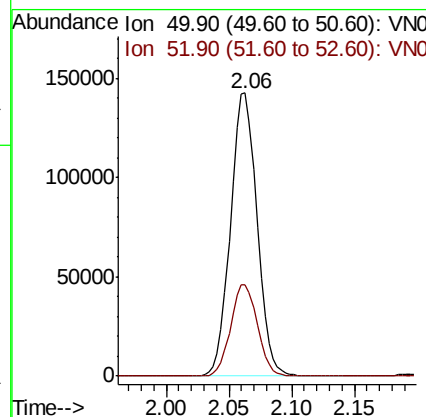
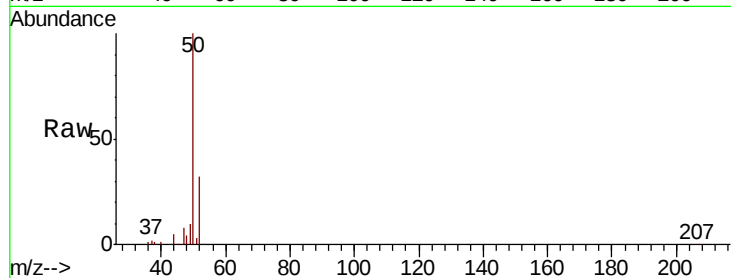
52 32.5 25.9 38.9

Manual Integrations

APPROVED

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#4

Vinyl Chloride

Concen: 18.337 ug/l

RT: 2.19 min Scan# 130

Delta R.T. 0.00 min

Lab File: VN052668.D

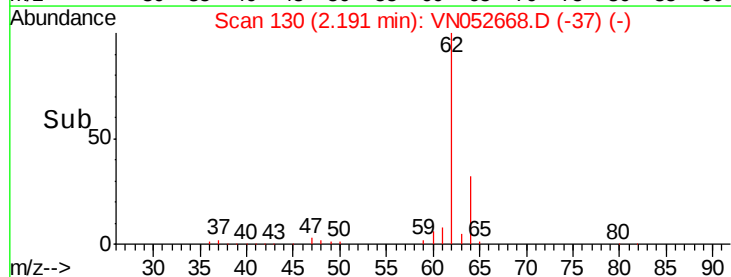
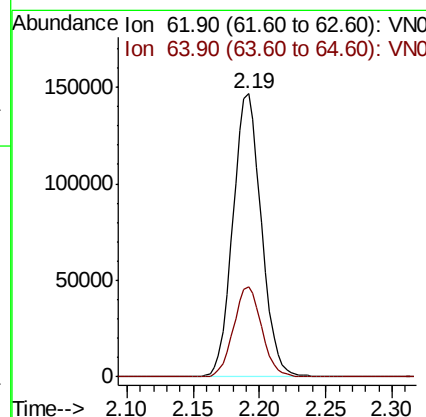
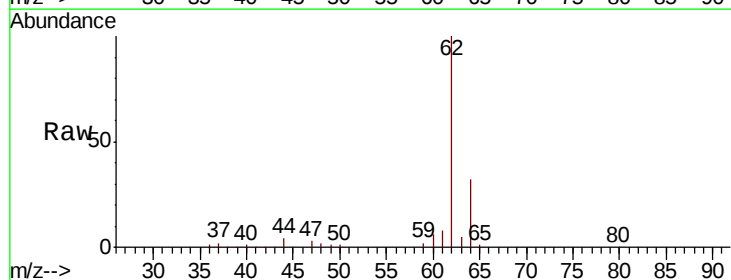
Acq: 5 Dec 2018 11:33

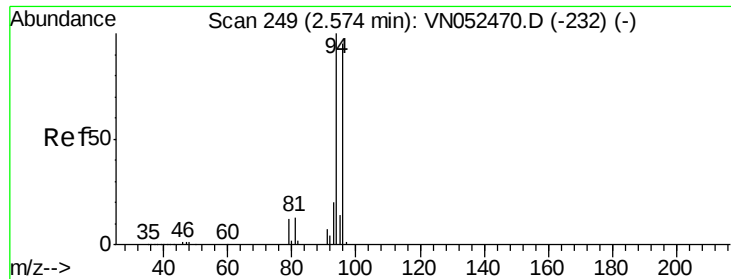
Tgt Ion: 62 Resp: 218589

Ion Ratio Lower Upper

62 100

64 31.7 25.4 38.2





#5

Bromomethane

Concen: 18.382 ug/l

RT: 2.57 min Scan# 249

Delta R.T. 0.00 min

Lab File: VN052668.D

Acq: 5 Dec 2018 11:33

Instrument :

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ClientSampleId :

VN1205WBSD01

Tot Ion: 94 Resp: 136721

Ion Ratio Lower Upper

94 100

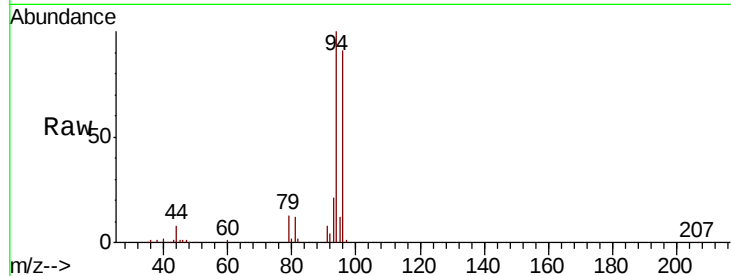
96 90.8 75.8 113.8

Manual Integrations

APPROVED

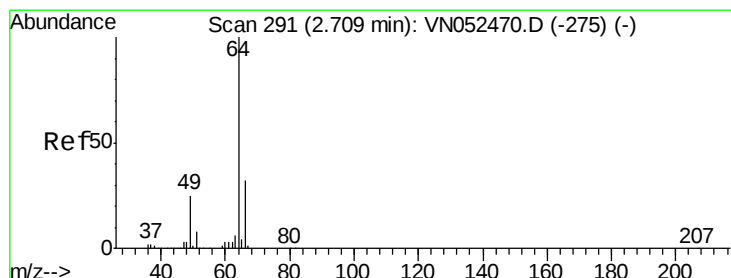
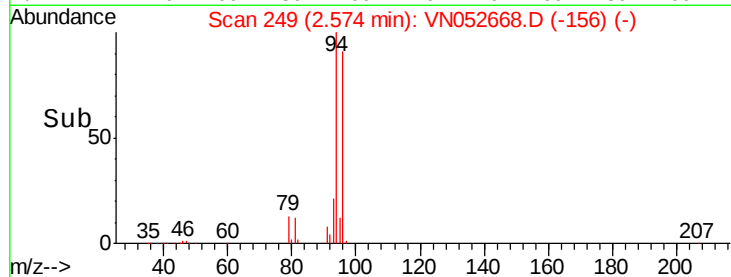
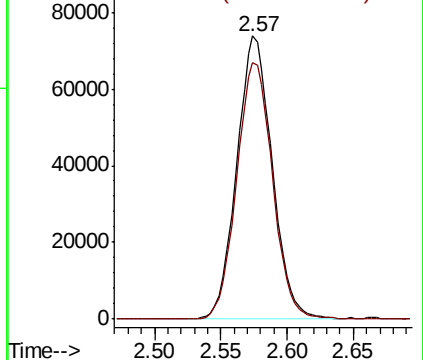
MMDadoda

12/6/2018 9:09:01 AM



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO



#6

Chloroethane

Concen: 18.917 ug/l

RT: 2.71 min Scan# 291

Delta R.T. 0.00 min

Lab File: VN052668.D

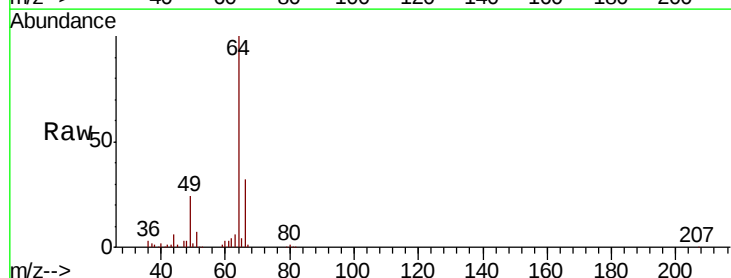
Acq: 5 Dec 2018 11:33

Tgt Ion: 64 Resp: 136594

Ion Ratio Lower Upper

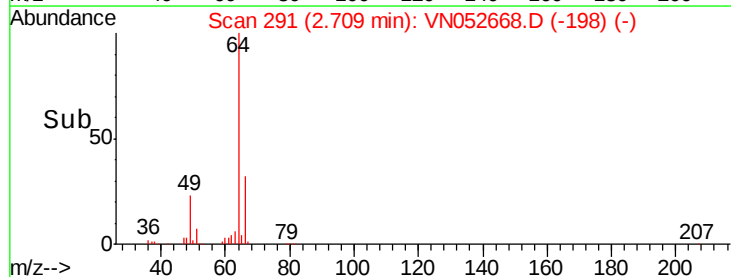
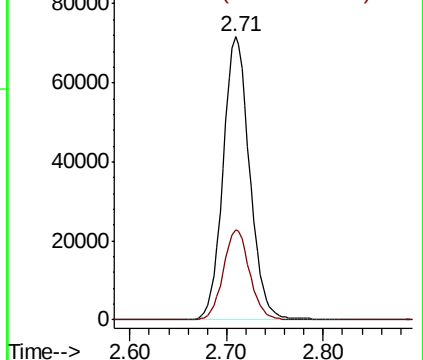
64 100

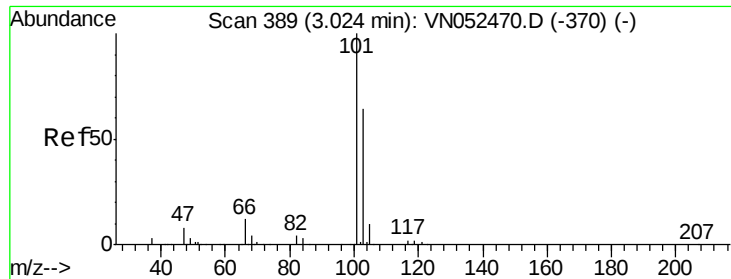
66 31.7 25.7 38.5



Abundance Ion 63.90 (63.60 to 64.60): VNO

Ion 65.90 (65.60 to 66.60): VNO





#7

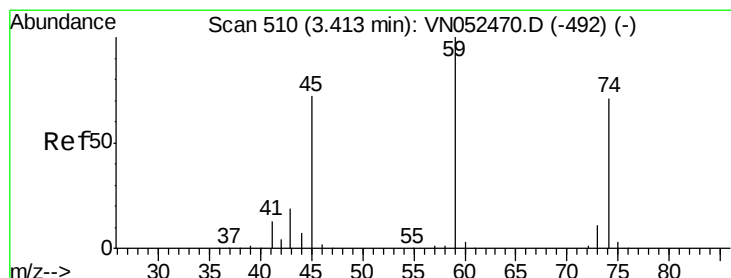
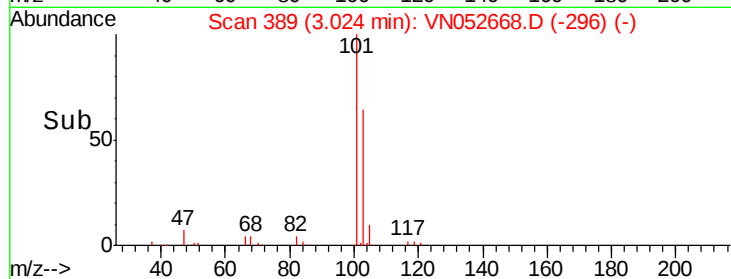
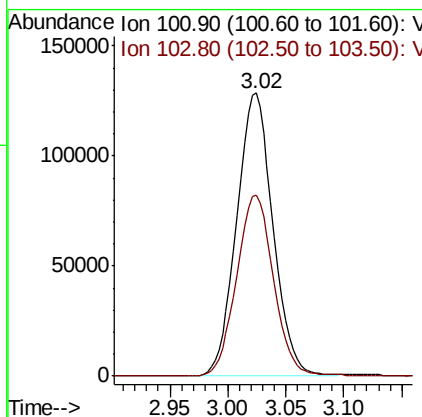
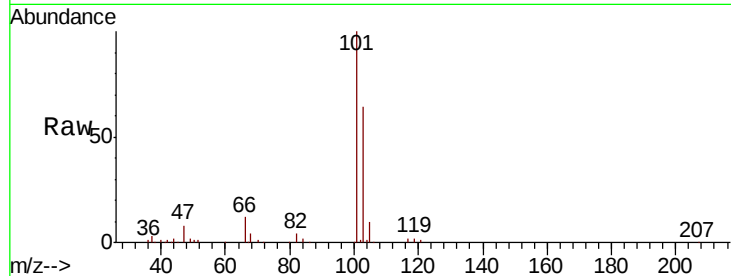
Trichlorofluoromethane
 Concen: 19.170 ug/l
 RT: 3.02 min Scan# 389
 Delta R.T. 0.00 min
 Lab File: VN052668.D
 Acq: 5 Dec 2018 11:33

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 VN1205WBSD01

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.2	51.4	77.2

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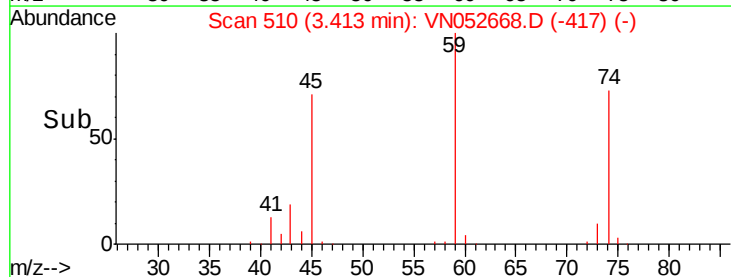
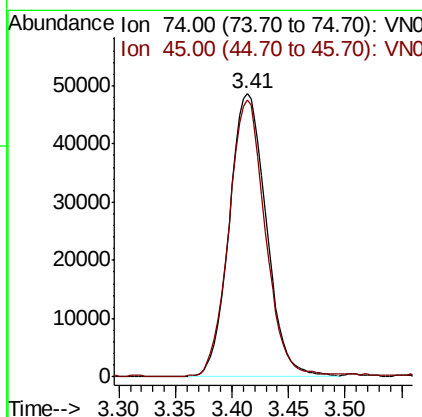
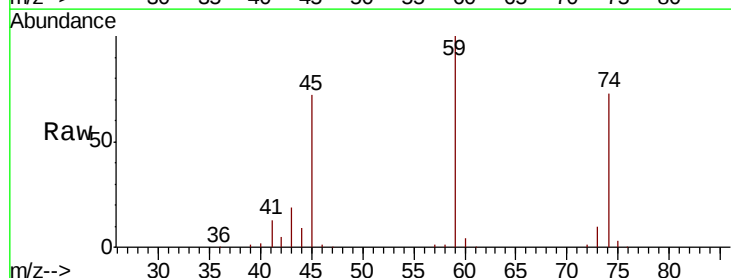
MMDadoda
 12/6/2018 9:09:01 AM

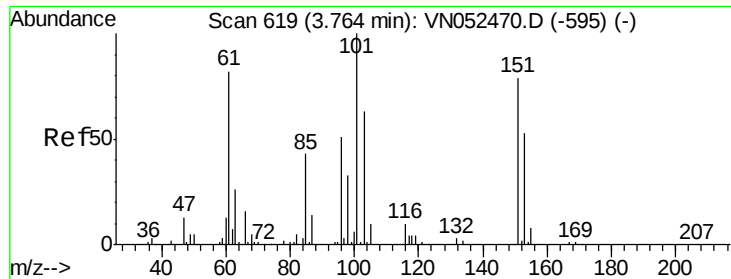


#8

Diethyl Ether
 Concen: 20.501 ug/l
 RT: 3.41 min Scan# 510
 Delta R.T. 0.00 min
 Lab File: VN052668.D
 Acq: 5 Dec 2018 11:33

Tgt Ion	Ratio	Lower	Upper
74	100		
45	97.1	50.4	151.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.830 ug/l

RT: 3.76 min Scan# 619

Delta R.T. 0.00 min

Lab File: VN052668.D

Acq: 5 Dec 2018 11:33

Instrument :

MSVOA_N

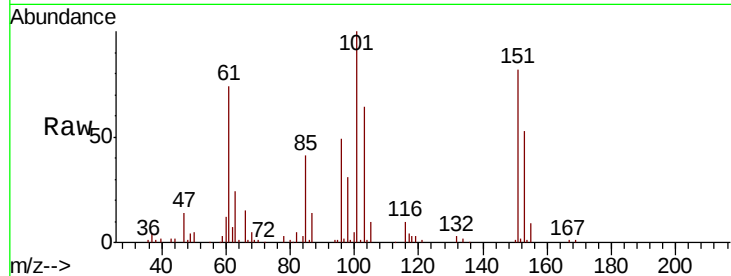
ClientSampleId :

VN1205WBSD01

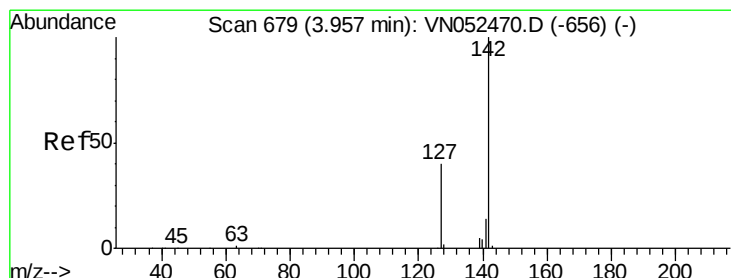
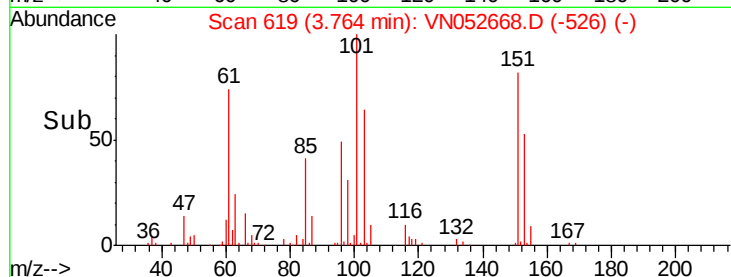
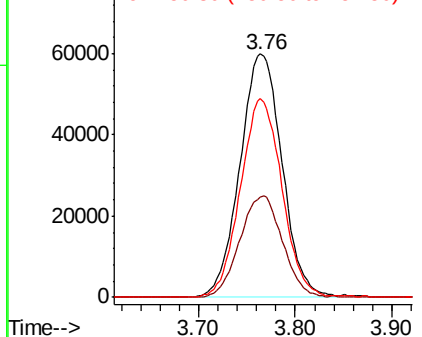
Tot Ion:	101	Resp:	181187
Ion Ratio	Lower	Upper	
101	100		
85	42.2	34.2	51.4
151	80.4	64.6	96.8

Manual Integrations
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Abundance Ion 100.90 (100.60 to 101.60): V
Ion 84.90 (84.60 to 85.60): V
Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 21.105 ug/l

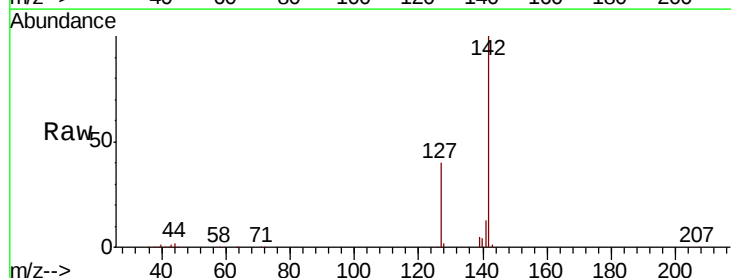
RT: 3.96 min Scan# 679

Delta R.T. 0.00 min

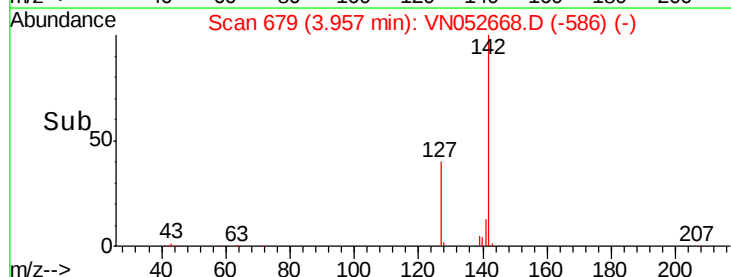
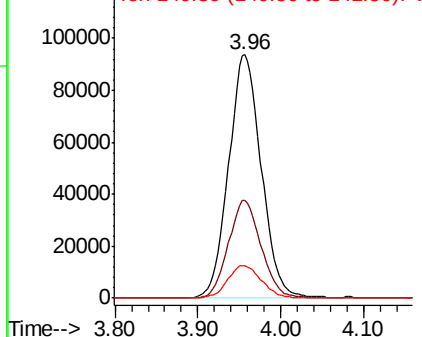
Lab File: VN052668.D

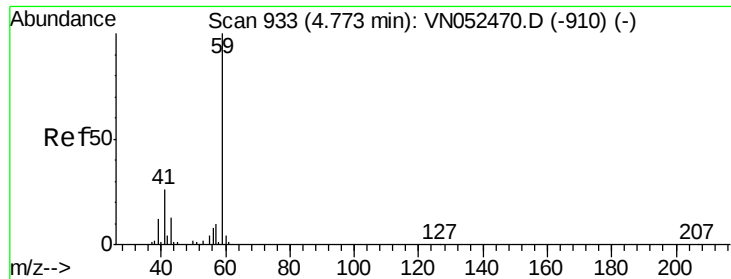
Acq: 5 Dec 2018 11:33

Tgt Ion:	142	Resp:	256828
Ion Ratio	Lower	Upper	
142	100		
127	40.1	31.8	47.6
141	13.8	11.4	17.0



Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V





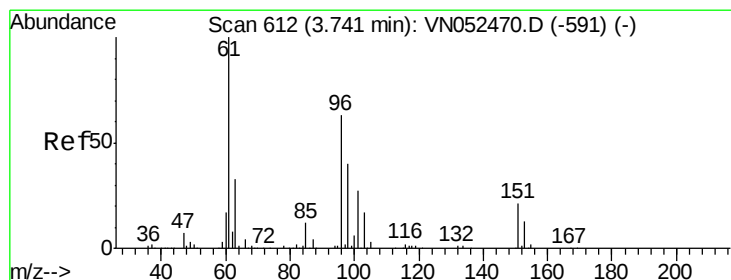
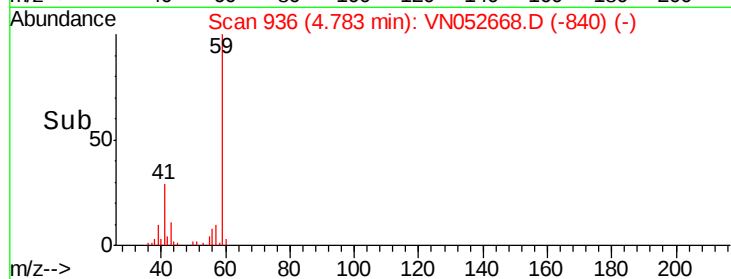
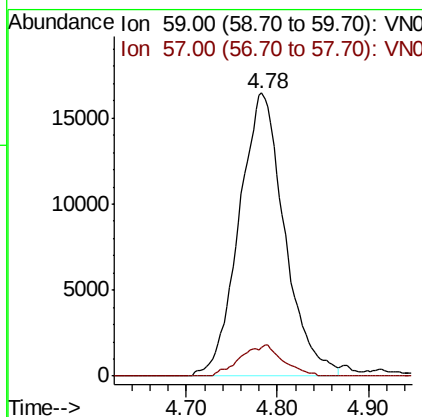
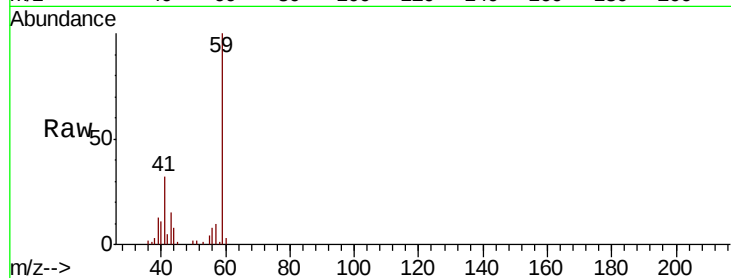
#11
Tert butyl alcohol
Concen: 111.589 ug/l
RT: 4.78 min Scan# 936
Delta R.T. 0.01 min
Lab File: VN052668.D
Acq: 5 Dec 2018 11:33

Instrument :
MSVOA_N
ClientSampleId :
VN1205WBSD01

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.4	7.9	11.9

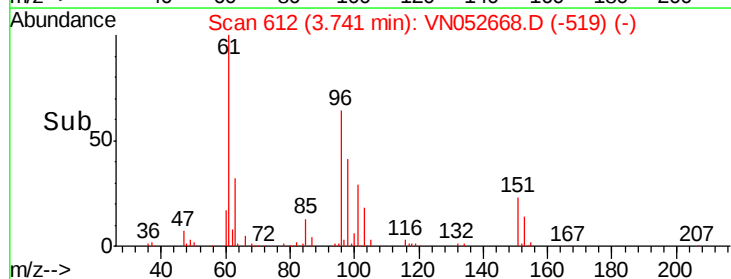
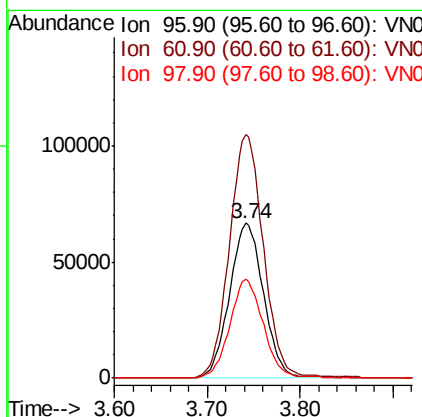
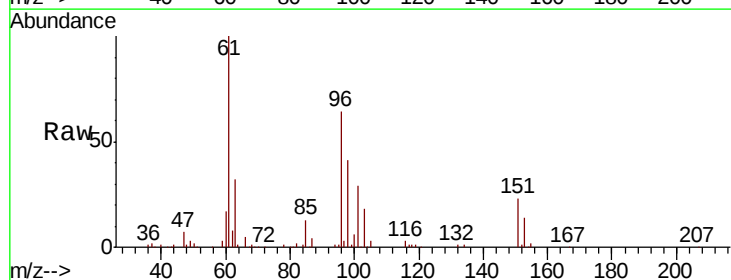
Manual Integrations
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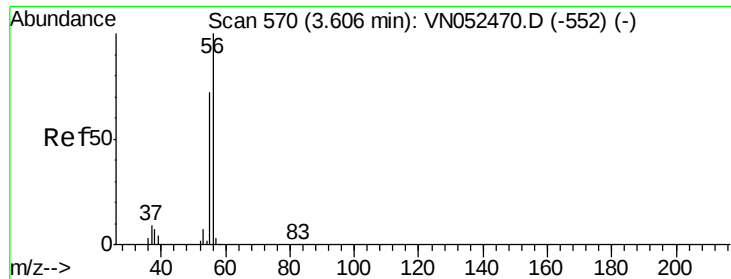
MMDadoda
12/6/2018 9:09:01 AM



#12
1,1-Dichloroethene
Concen: 19.321 ug/l
RT: 3.74 min Scan# 612
Delta R.T. 0.00 min
Lab File: VN052668.D
Acq: 5 Dec 2018 11:33

Tgt Ion	Ratio	Lower	Upper
96	100		
61	157.4	127.0	190.6
98	64.2	50.3	75.5





#13

Acrolein

Concen: 82.801 ug/l

RT: 3.61 min Scan# 570

Delta R.T. 0.00 min

Lab File: VN052668.D

Acq: 5 Dec 2018 11:33

Instrument :

MSVOA_N

ClientSampleId :

VN1205WBSD01

Tot Ion: 56 Resp: 73650

Ion Ratio Lower Upper

56 100

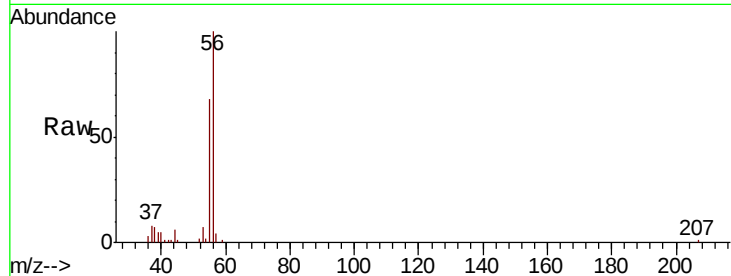
55 70.6 56.8 85.2

Manual Integrations

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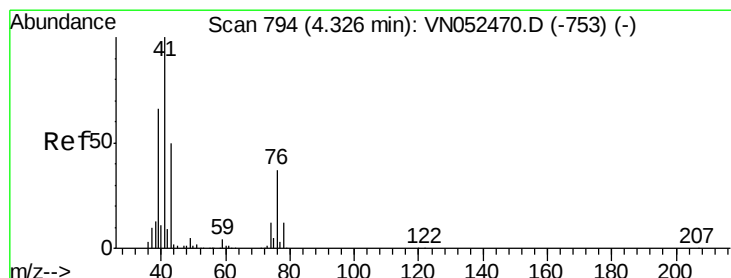
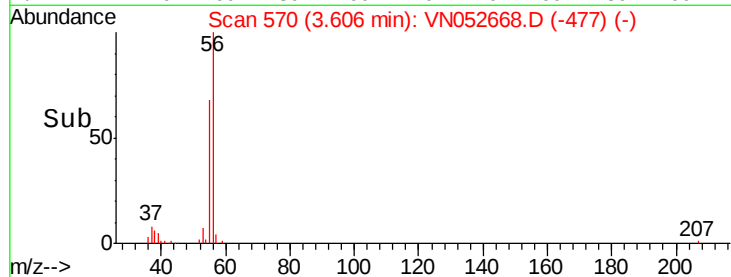
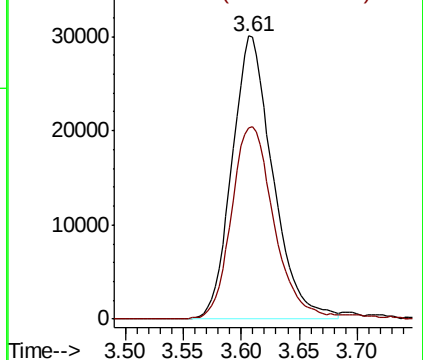
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Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Allyl chloride

Concen: 19.360 ug/l

RT: 4.33 min Scan# 794

Delta R.T. 0.00 min

Lab File: VN052668.D

Acq: 5 Dec 2018 11:33

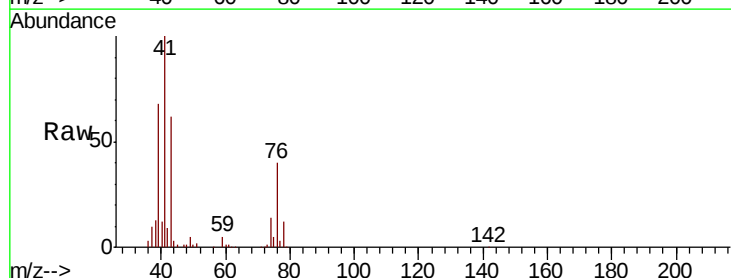
Tgt Ion: 41 Resp: 293463

Ion Ratio Lower Upper

41 100

39 63.7 50.6 76.0

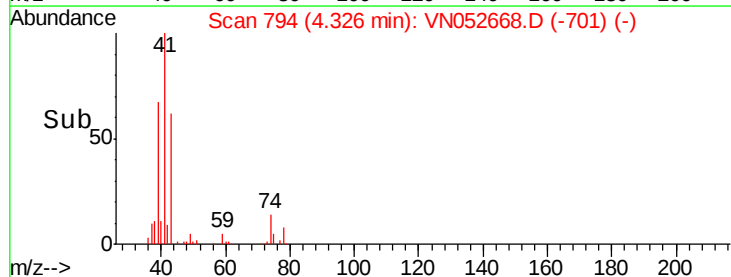
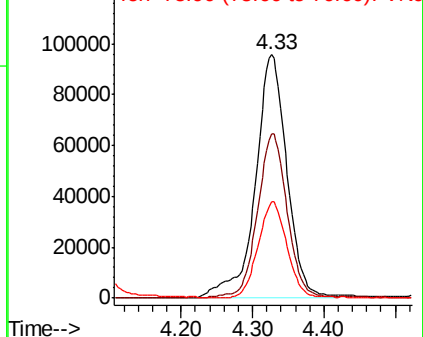
76 35.9 27.4 41.2

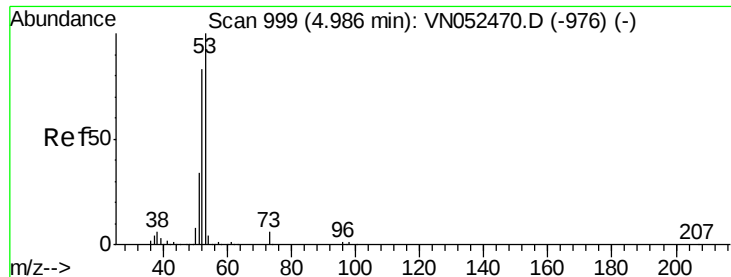


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





#15

Acrylonitrile

Concen: 103.222 ug/l

RT: 4.99 min Scan# 1000

Delta R.T. 0.00 min

Lab File: VN052668.D

Acq: 5 Dec 2018 11:33

Instrument :

MSVOA_N

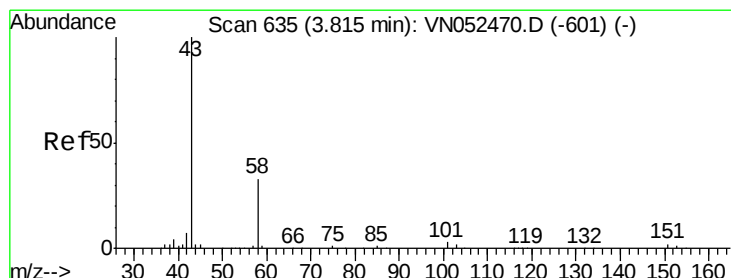
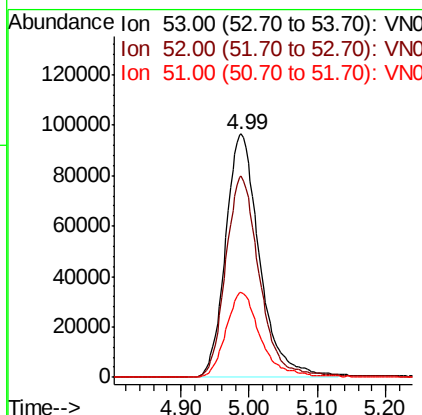
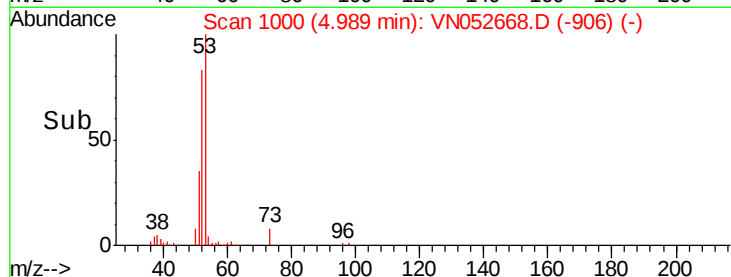
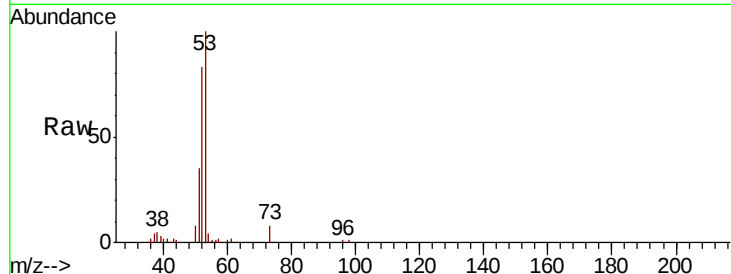
ClientSampleId :

VN1205WBSD01

Tot Ion:	53	Resp:	334404
Ion	Ratio	Lower	Upper
53	100		
52	81.8	66.2	99.2
51	35.3	28.1	42.1

Manual Integrations
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#16

Acetone

Concen: 106.261 ug/l

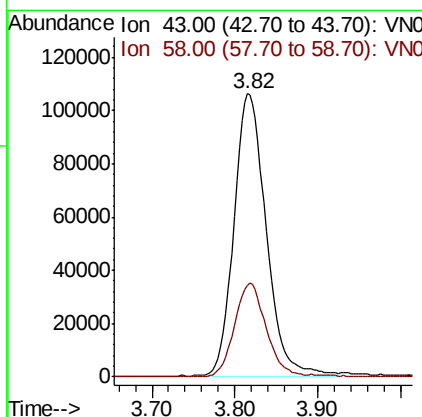
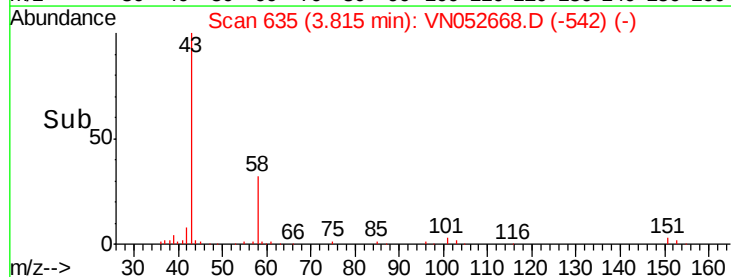
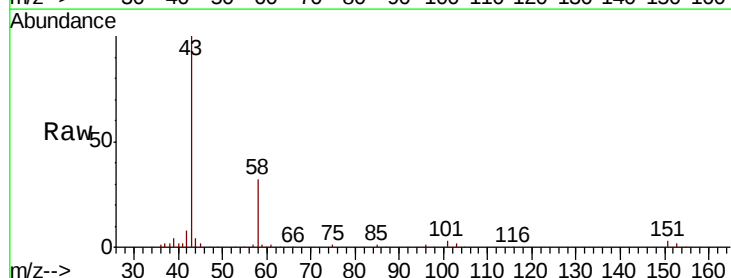
RT: 3.82 min Scan# 635

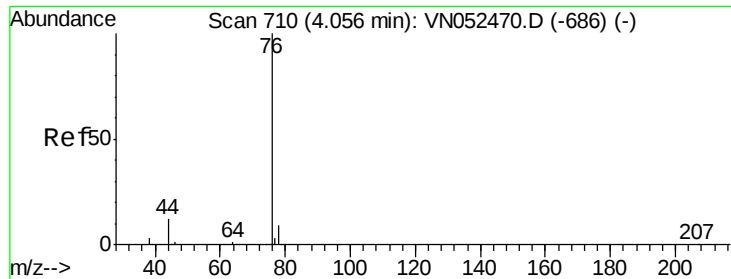
Delta R.T. 0.00 min

Lab File: VN052668.D

Acq: 5 Dec 2018 11:33

Tgt Ion:	43	Resp:	286518
Ion	Ratio	Lower	Upper
43	100		
58	32.3	26.0	39.0





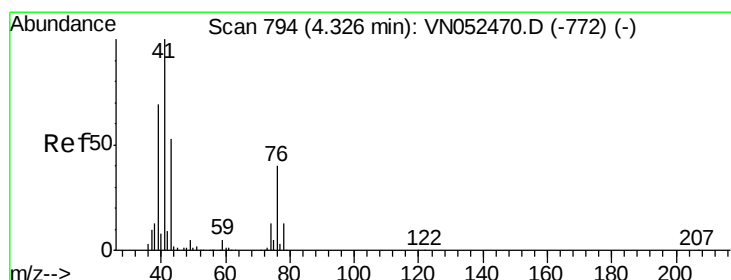
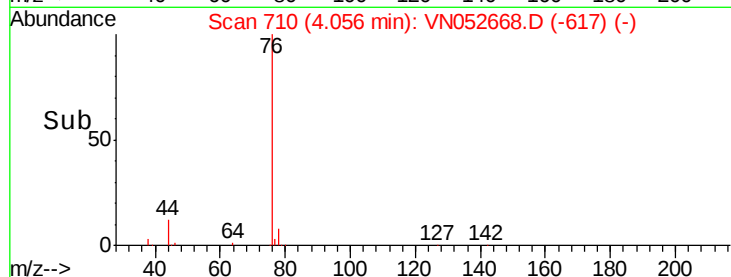
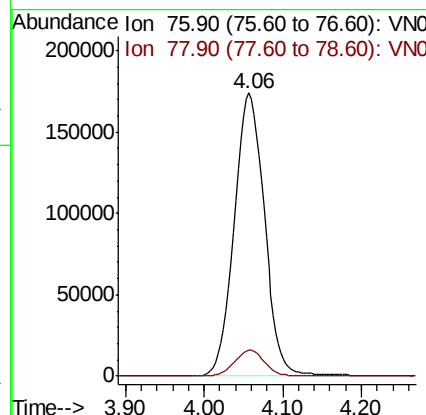
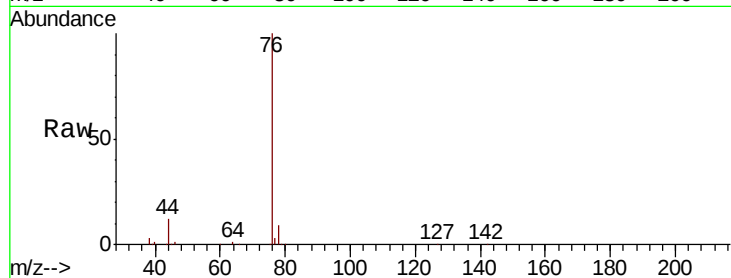
#17
Carbon Disulfide
Concen: 16.869 ug/l
RT: 4.06 min Scan# 710
Delta R.T. 0.00 min
Lab File: VN052668.D
Acq: 5 Dec 2018 11:33

Instrument :
MSVOA_N
ClientSampleId :
VN1205WBSD01

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.3	7.4	11.0

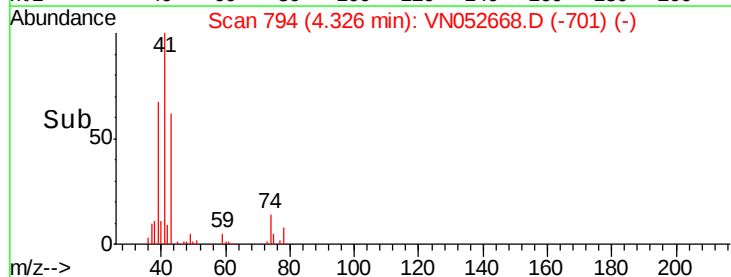
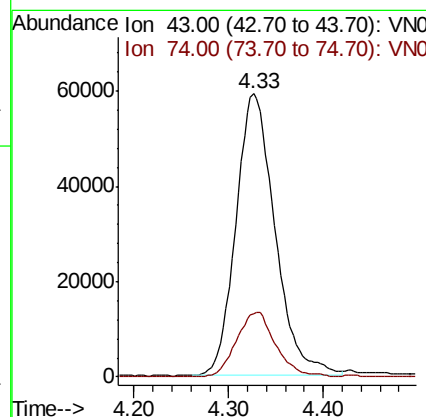
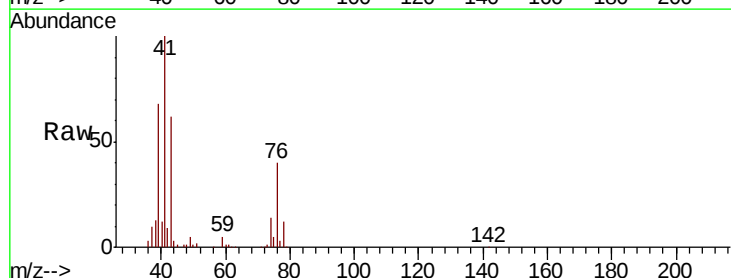
Manual Integrations
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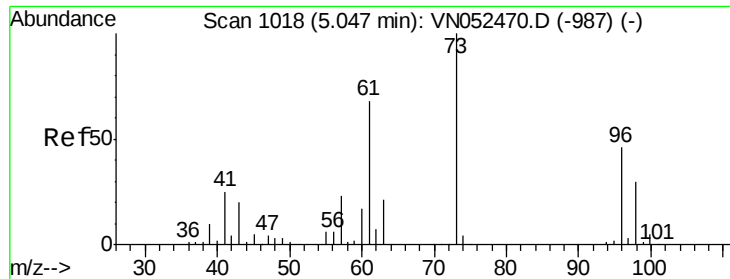
MMDadoda
12/6/2018 9:09:01 AM



#18
Methyl Acetate
Concen: 22.000 ug/l
RT: 4.33 min Scan# 794
Delta R.T. 0.00 min
Lab File: VN052668.D
Acq: 5 Dec 2018 11:33

Tgt Ion	Ratio	Lower	Upper
43	100		
74	23.1	18.6	27.8





#19

Methyl tert-butyl Ether

Concen: 20.835 ug/l

RT: 5.05 min Scan# 1018

Delta R.T. 0.00 min

Lab File: VN052668.D

Acq: 5 Dec 2018 11:33

Instrument :

MSVOA_N

ClientSampleId :

VN1205WBSD01

Tot Ion: 73 Resp: 487553

Ion Ratio Lower Upper

73 100

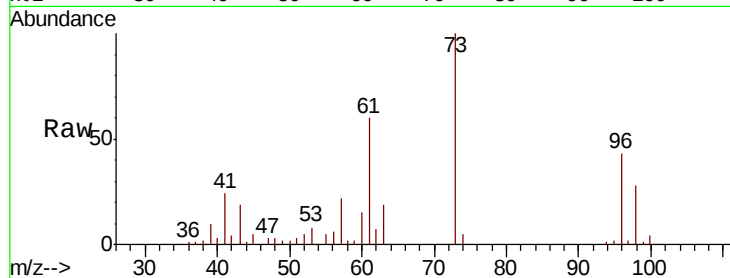
57 22.3 18.2 27.2

Manual Integrations

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Abundance Ion 73.00 (72.70 to 73.70): VN052470.D (-987) (-)

Ion 57.00 (56.70 to 57.70): VN052470.D (-987) (-)

5.05

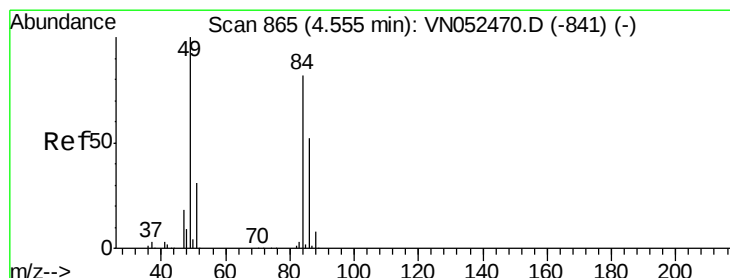
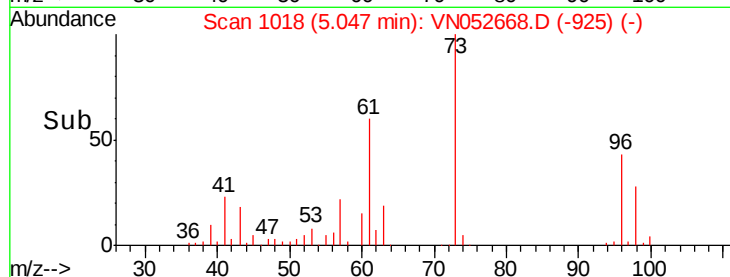
150000

100000

50000

0

Time-->



#20

Methylene Chloride

Concen: 19.313 ug/l

RT: 4.55 min Scan# 865

Delta R.T. 0.00 min

Lab File: VN052668.D

Acq: 5 Dec 2018 11:33

Tgt Ion: 84 Resp: 203784

Ion Ratio Lower Upper

84 100

49 117.9 98.0 147.0

51 35.6 30.1 45.1

86 63.7 50.7 76.1

Abundance Ion 83.90 (83.60 to 84.60): VN052470.D (-841) (-)

Ion 48.90 (48.60 to 49.60): VN052470.D (-841) (-)

Ion 50.90 (50.60 to 51.60): VN052470.D (-841) (-)

Ion 85.90 (85.60 to 86.60): VN052470.D (-841) (-)

120000

100000

80000

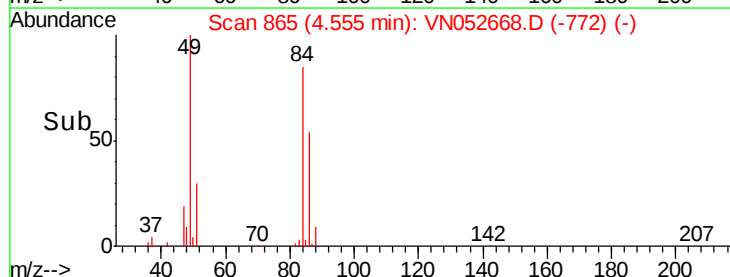
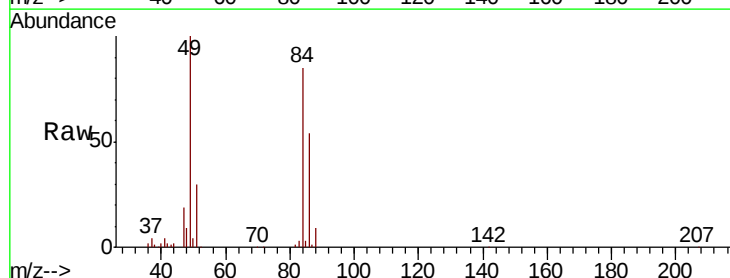
60000

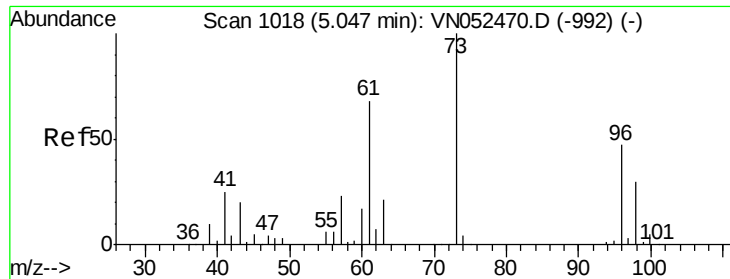
40000

20000

0

Time-->





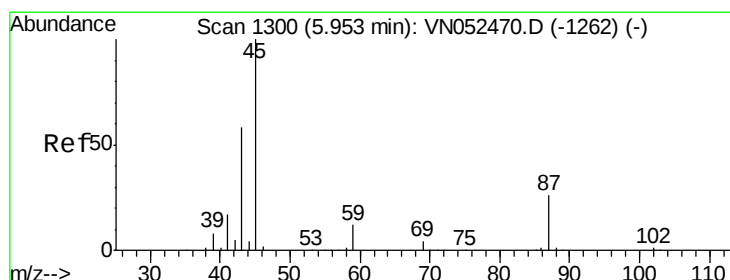
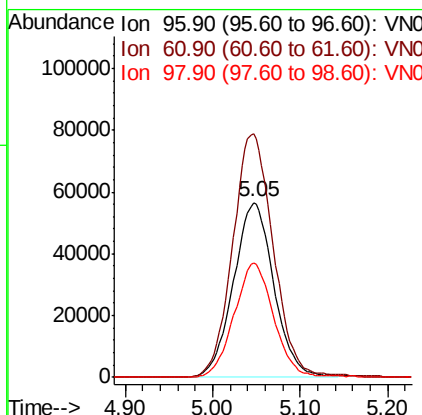
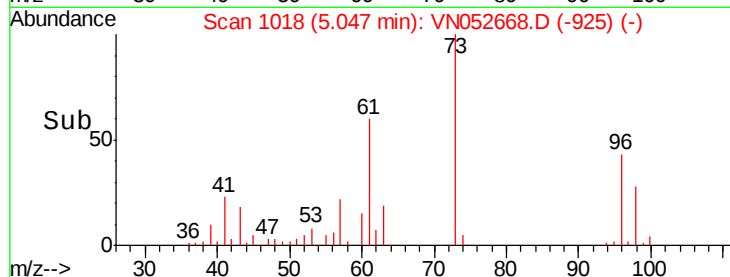
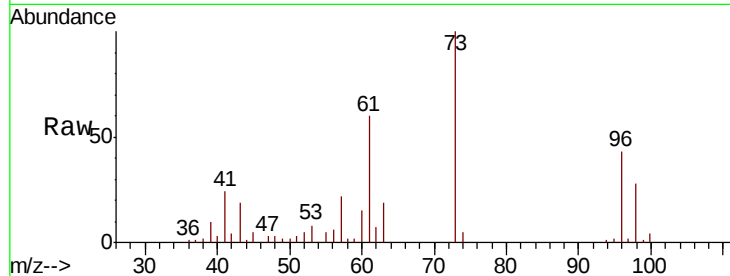
#21
trans-1,2-Dichloroethene
Concen: 19.323 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VN052668.D
Acq: 5 Dec 2018 11:33

Instrument :
MSVOA_N
ClientSampleId :
VN1205WBSD01

Tot Ion	Ratio	Lower	Upper
96	100		
61	139.5	117.0	175.4
98	65.7	51.8	77.6

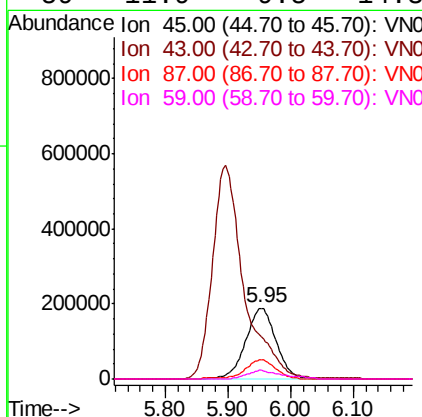
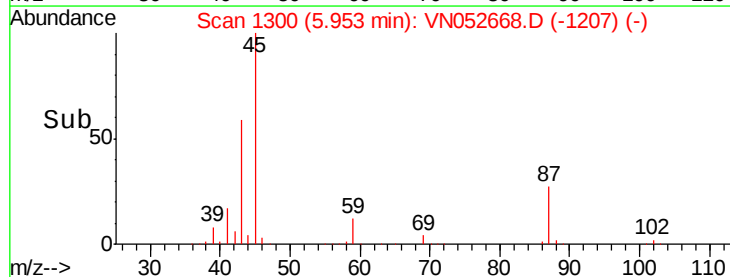
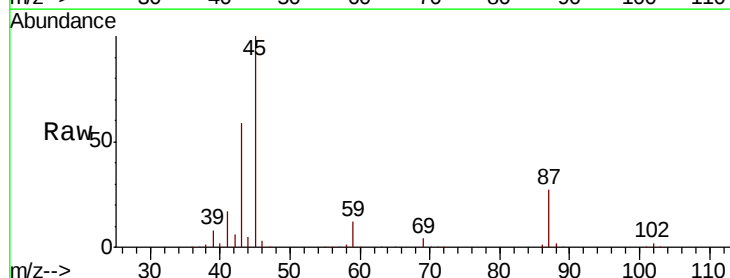
Manual Integrations
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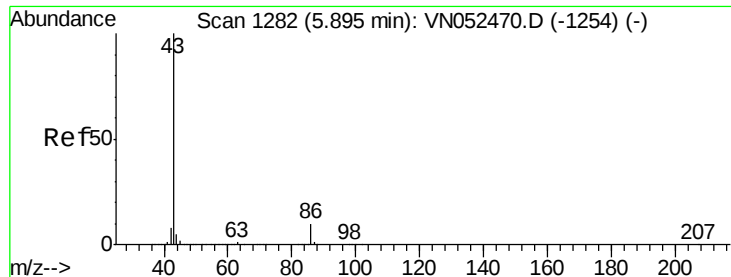
MMDadoda
12/6/2018 9:09:01 AM



#22
Diisopropyl ether
Concen: 19.965 ug/l
RT: 5.95 min Scan# 1300
Delta R.T. 0.00 min
Lab File: VN052668.D
Acq: 5 Dec 2018 11:33

Tgt Ion	Ratio	Lower	Upper
45	100		
43	57.7	46.1	69.1
87	26.5	21.3	31.9
59	11.9	9.5	14.3





#23

Vinyl Acetate

Concen: 100.314 ug/l

RT: 5.90 min Scan# 1282

Delta R.T. 0.00 min

Lab File: VN052668.D

Acq: 5 Dec 2018 11:33

Instrument :

MSVOA_N

ClientSampleId :

VN1205WBSD01

Tot Ion: 43 Resp: 1989405

Ion Ratio Lower Upper

43 100

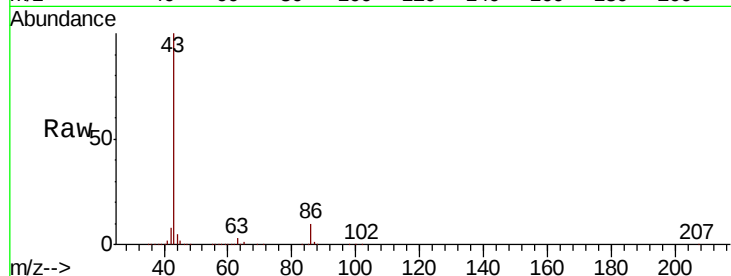
86 9.9 7.8 11.8

Manual Integrations

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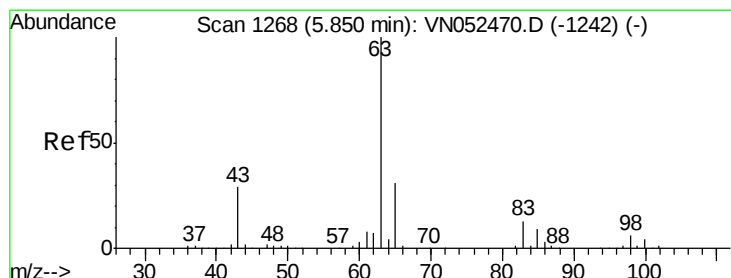
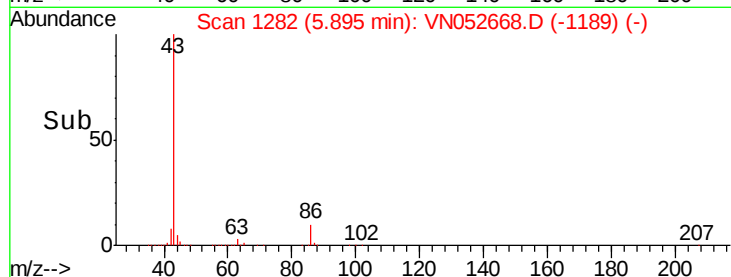
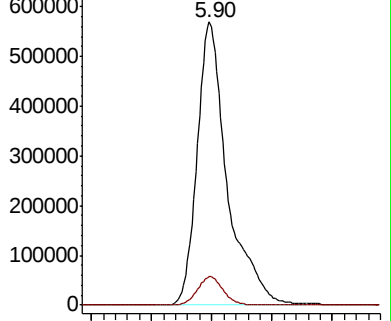
MMDadoda

12/6/2018 9:09:01 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#24

1,1-Dichloroethane

Concen: 19.868 ug/l

RT: 5.85 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VN052668.D

Acq: 5 Dec 2018 11:33

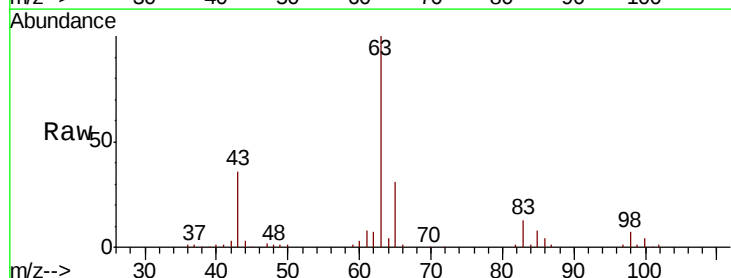
Tgt Ion: 63 Resp: 361194

Ion Ratio Lower Upper

63 100

98 6.6 3.0 9.2

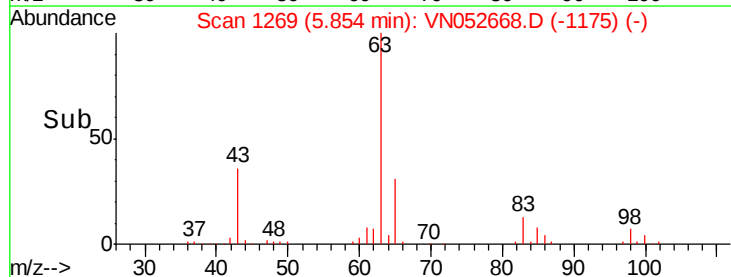
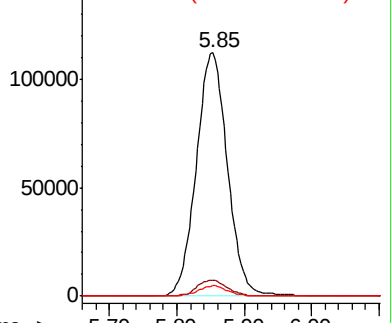
100 4.3 2.0 5.8



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





#25

2-Butanone

Concen: 104.461 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. 0.00 min

Lab File: VN052668.D

Acq: 5 Dec 2018 11:33

Instrument :

MSVOA_N

ClientSampleId :

VN1205WBSD01

Tot Ion: 43 Resp: 399231

Ion Ratio Lower Upper

43 100

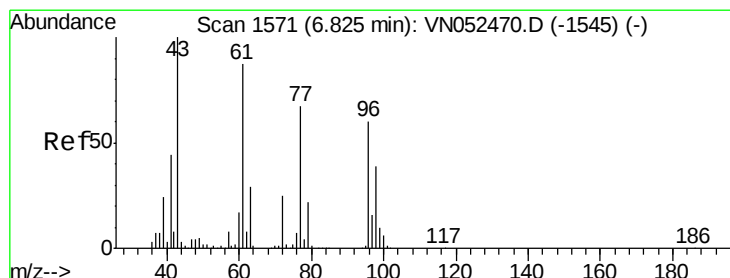
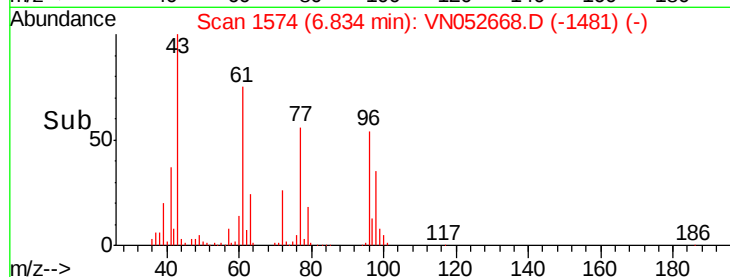
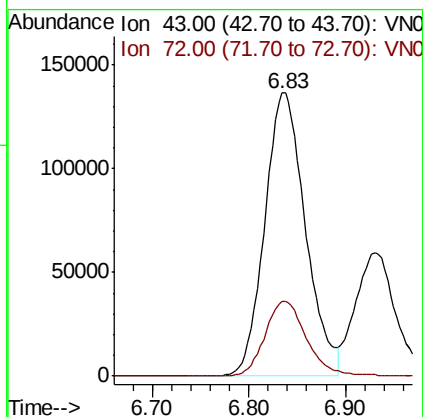
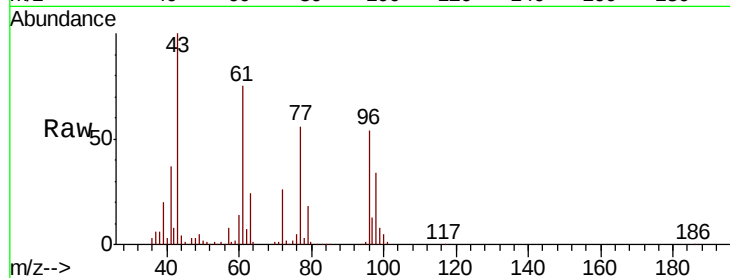
72 26.3 20.1 30.1

Manual Integrations

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12/6/2018 9:09:01 AM



#26

2,2-Dichloropropane

Concen: 20.754 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VN052668.D

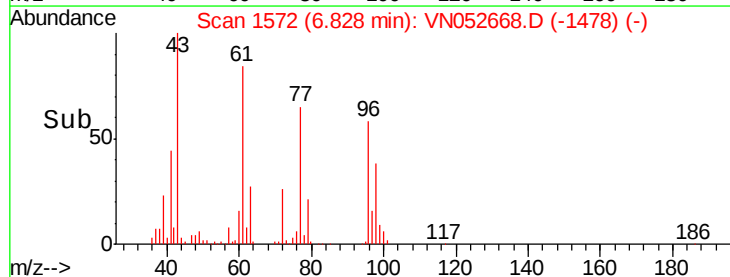
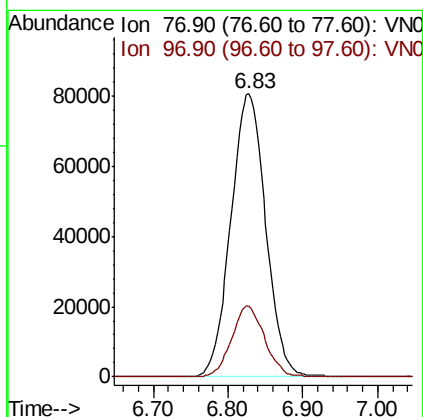
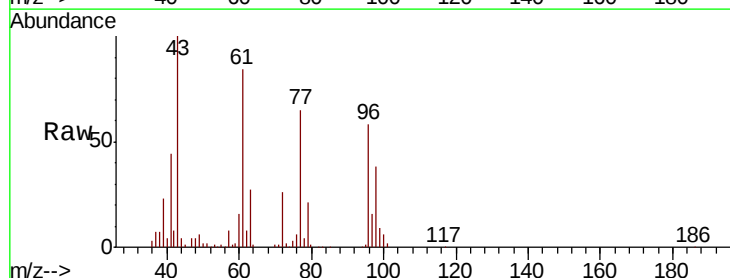
Acq: 5 Dec 2018 11:33

Tgt Ion: 77 Resp: 261149

Ion Ratio Lower Upper

77 100

97 23.7 11.8 35.3





#27

cis-1,2-Dichloroethene

Concen: 19.708 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VN052668.D

Acq: 5 Dec 2018 11:33

Instrument :

MSVOA_N

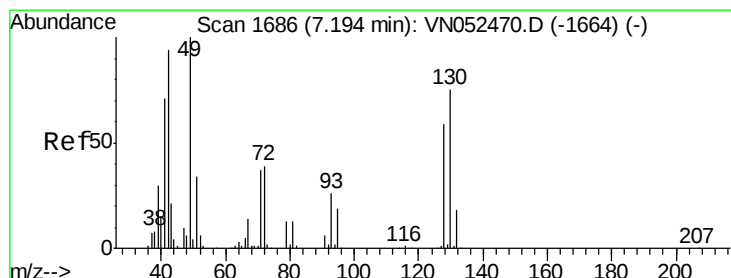
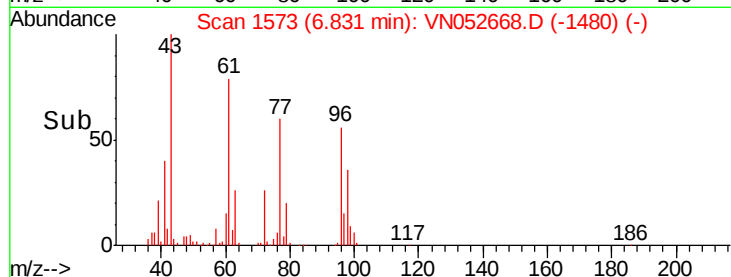
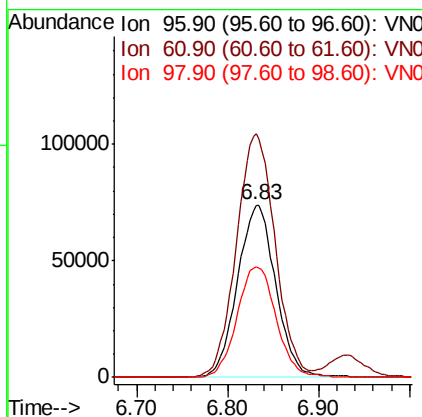
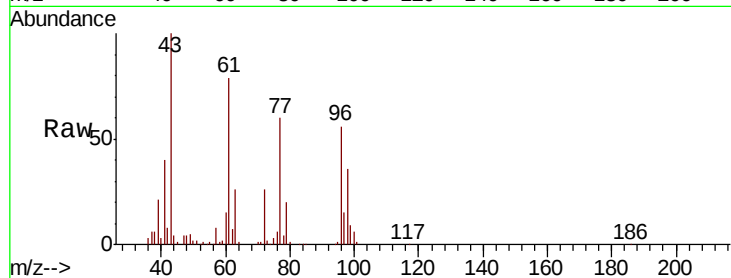
ClientSampleId :

VN1205WBSD01

Tot Ion:	96	Resp:	215645
Ion Ratio	Lower	Upper	
96	100		
61	143.4	0.0	291.0
98	65.5	0.0	130.0

Manual Integrations
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#28

Bromochloromethane

Concen: 20.464 ug/l

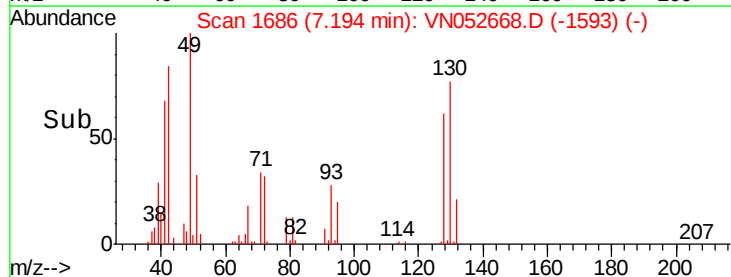
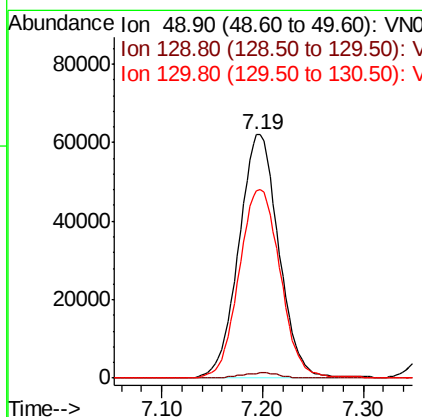
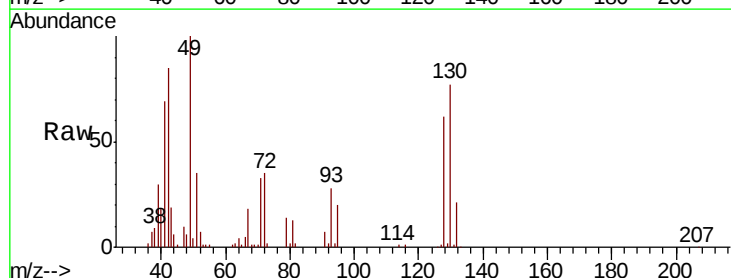
RT: 7.19 min Scan# 1686

Delta R.T. 0.00 min

Lab File: VN052668.D

Acq: 5 Dec 2018 11:33

Tgt Ion:	49	Resp:	169923
Ion Ratio	Lower	Upper	
49	100		
129	2.0	0.0	3.8
130	80.5	60.2	90.2





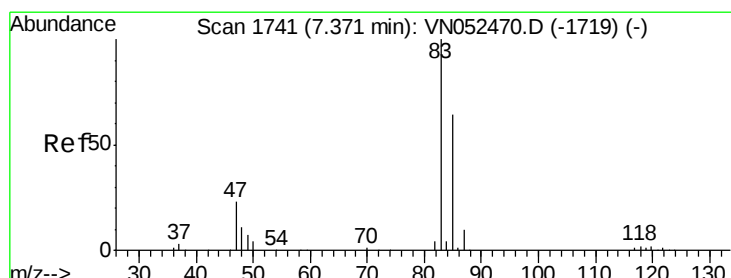
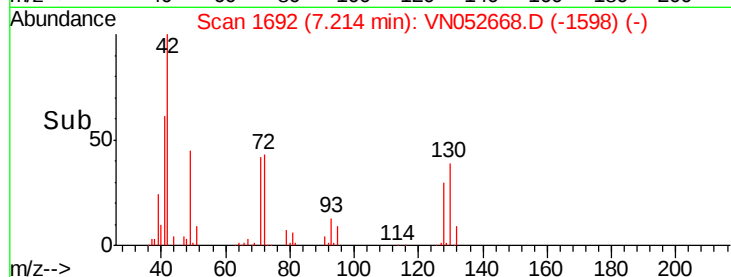
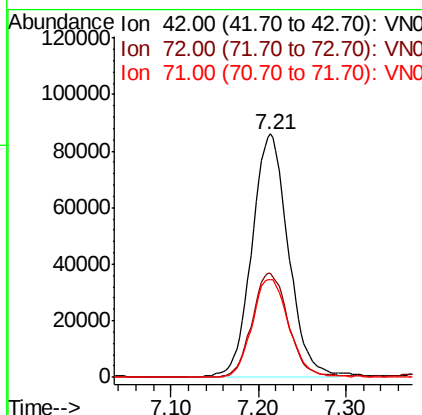
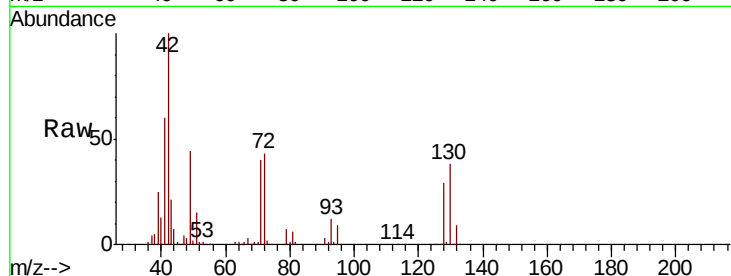
#29
Tetrahydrofuran
Concen: 100.069 ug/l
RT: 7.21 min Scan# 1692
Delta R.T. 0.00 min
Lab File: VN052668.D
Acq: 5 Dec 2018 11:33

Instrument :
MSVOA_N
ClientSampleId :
VN1205WBSD01

Tot Ion	Ratio	Lower	Upper
42	100		
72	43.1	33.3	49.9
71	41.0	32.0	48.0

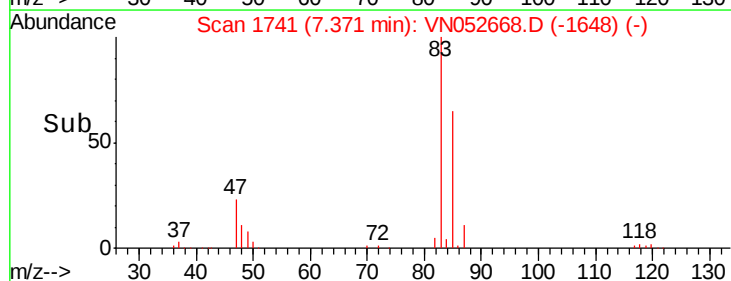
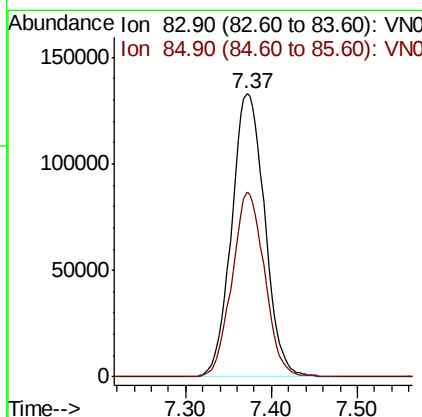
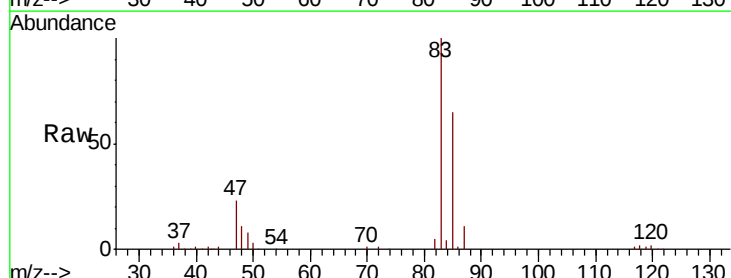
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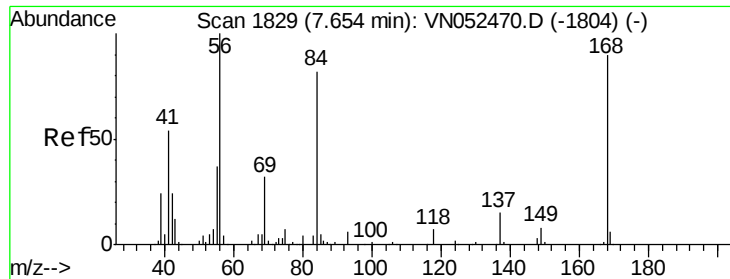
MMDadoda
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#30
Chloroform
Concen: 19.580 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. 0.00 min
Lab File: VN052668.D
Acq: 5 Dec 2018 11:33

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.4	51.0	76.4





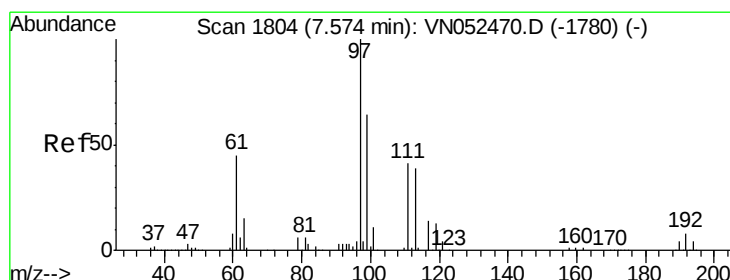
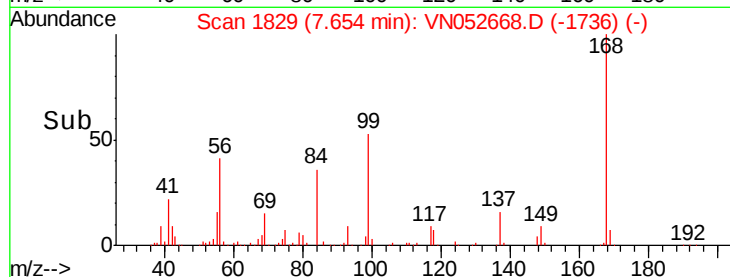
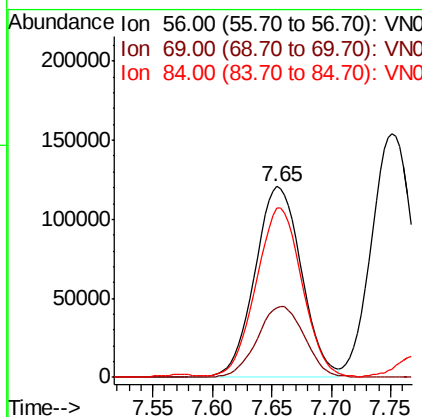
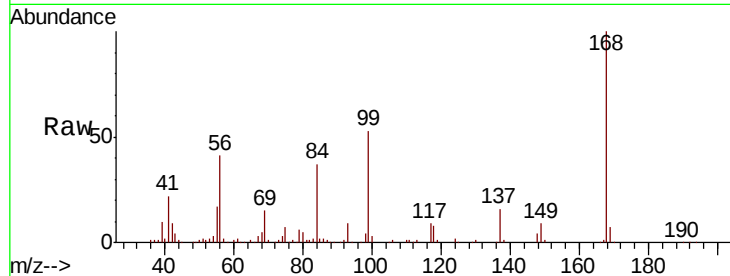
#31
Cyclohexane
Concen: 18.366 ug/l
RT: 7.65 min Scan# 1829
Delta R.T. 0.00 min
Lab File: VN052668.D
Acq: 5 Dec 2018 11:33

Instrument :
MSVOA_N
ClientSampleId :
VN1205WBSD01

Tot Ion	Ratio	Lower	Upper
56	100		
69	36.5	25.8	38.6
84	87.5	65.3	97.9

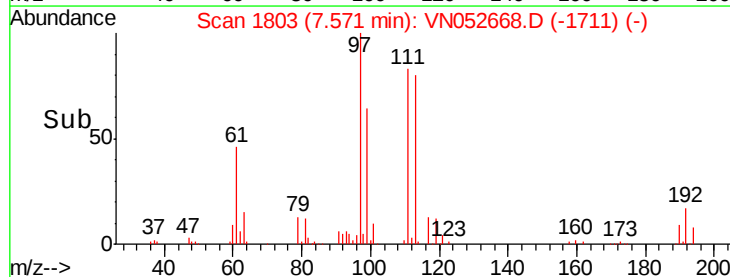
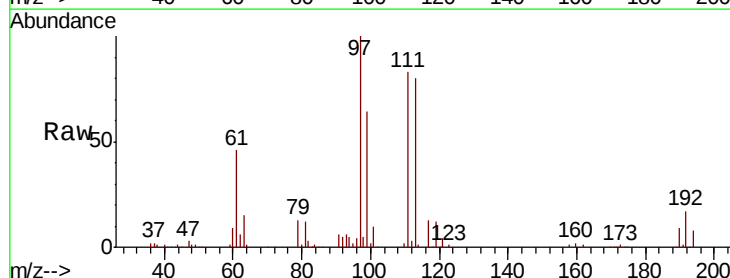
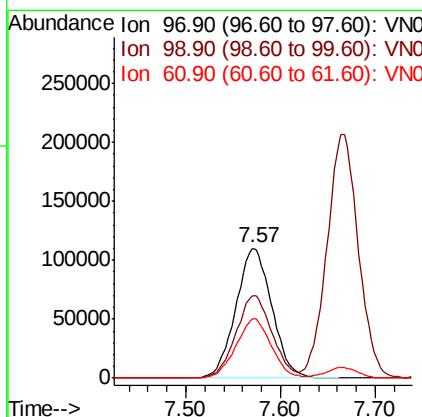
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#32
1,1,1-Trichloroethane
Concen: 20.243 ug/l
RT: 7.57 min Scan# 1803
Delta R.T. -0.00 min
Lab File: VN052668.D
Acq: 5 Dec 2018 11:33

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.7	51.7	77.5
61	45.1	36.8	55.2





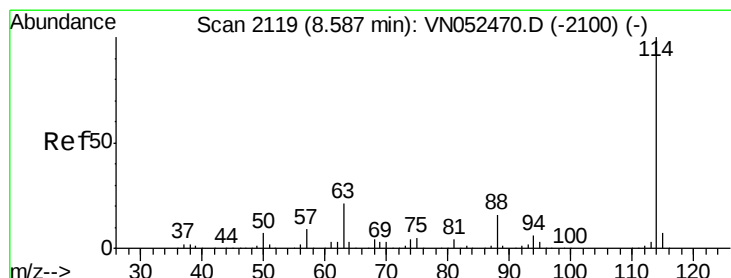
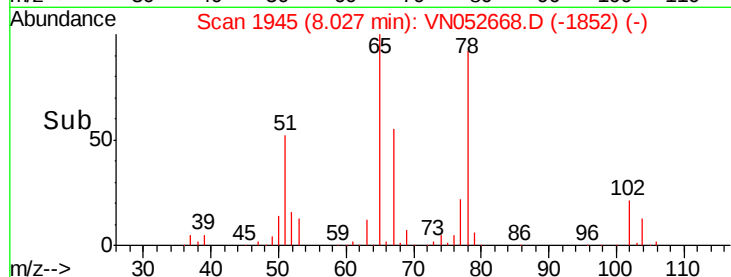
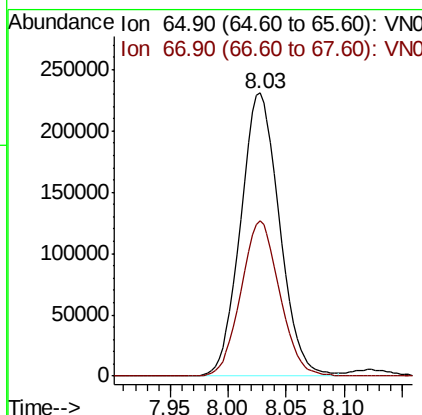
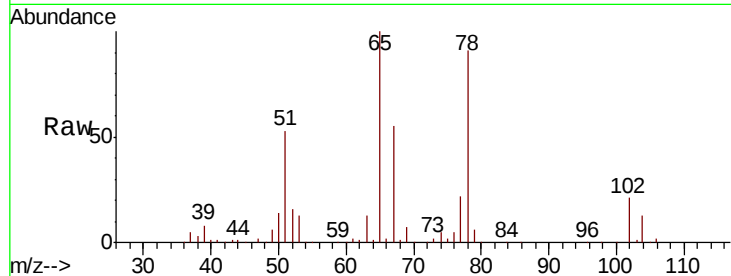
#33
 1,2-Dichloroethane-d4
 Concen: 20.243 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN052668.D
 Acq: 5 Dec 2018 11:33

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1205WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	54.7	0.0	109.8	

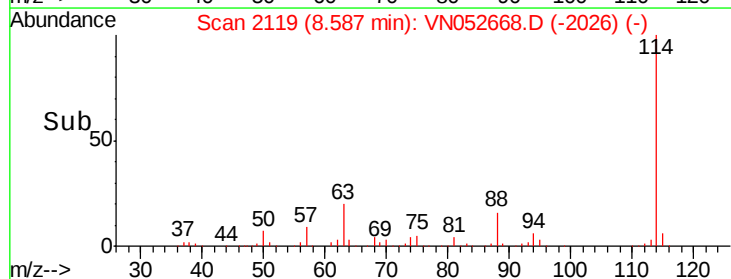
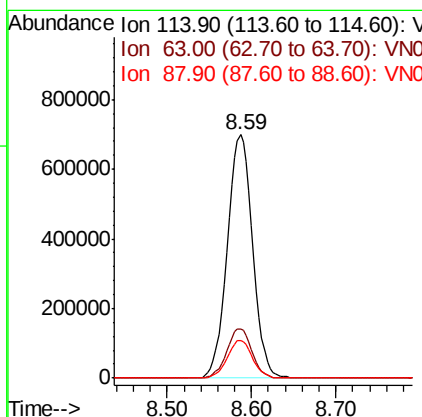
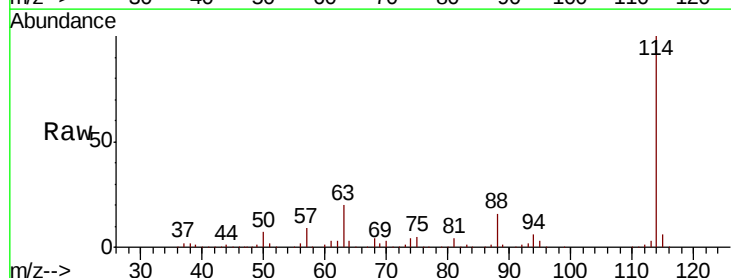
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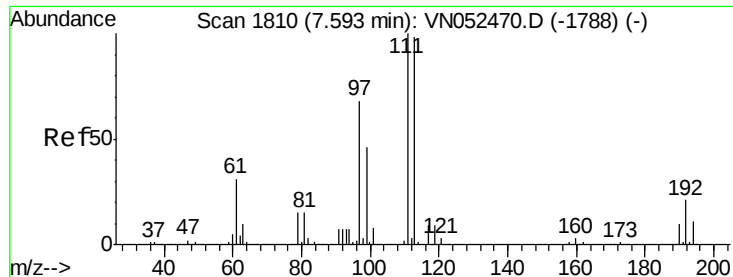
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN052668.D
 Acq: 5 Dec 2018 11:33

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	20.3	0.0	41.8	
88	15.6	0.0	31.6	





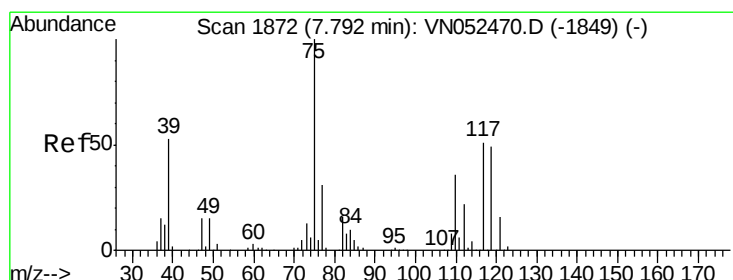
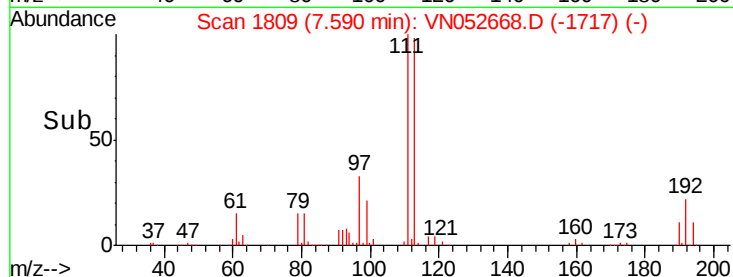
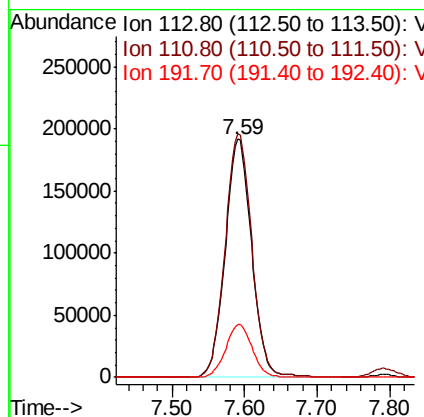
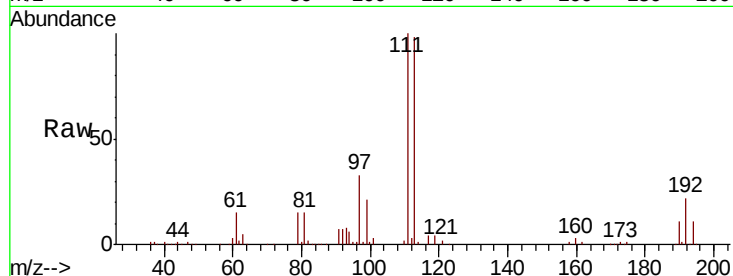
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. -0.00 min
 Lab File: VN052668.D
 Acq: 5 Dec 2018 11:33

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1205WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	103.5	82.0	123.0	
192	22.2	17.0	25.6	

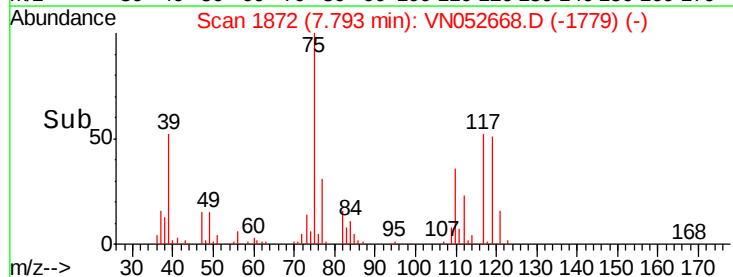
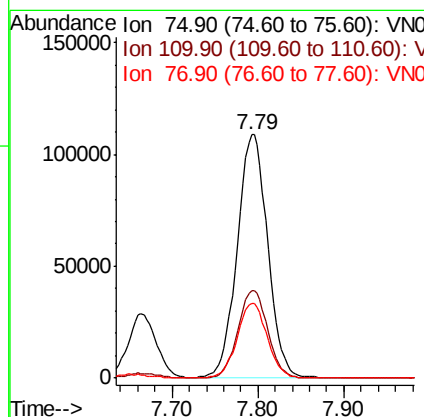
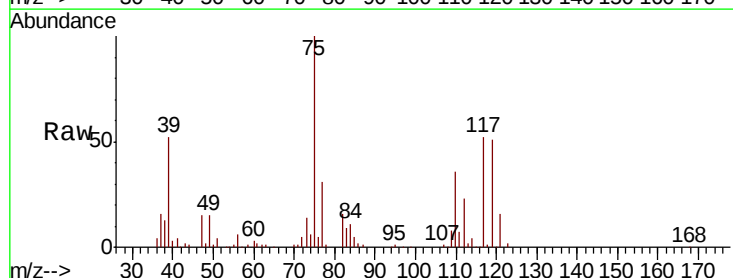
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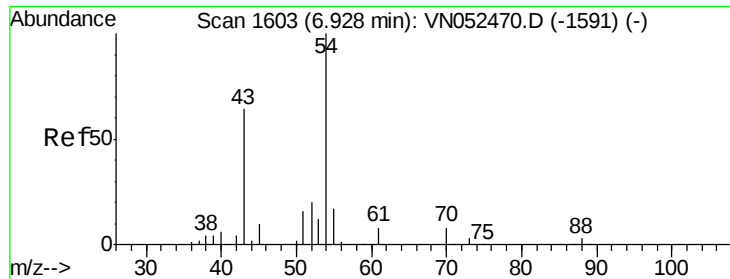
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 12/6/2018 9:09:01 AM



#36
 1,1-Dichloropropene
 Concen: 19.418 ug/l
 RT: 7.79 min Scan# 1872
 Delta R.T. 0.00 min
 Lab File: VN052668.D
 Acq: 5 Dec 2018 11:33

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
110	35.3	17.5	52.6	
77	30.7	24.5	36.7	





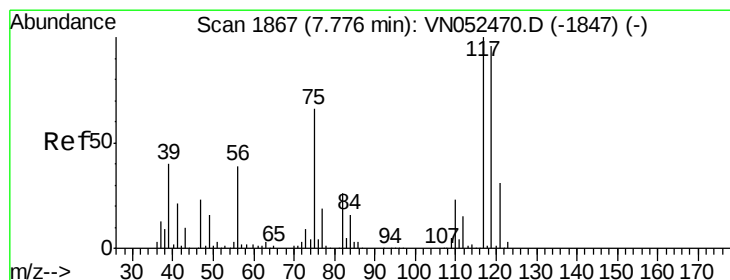
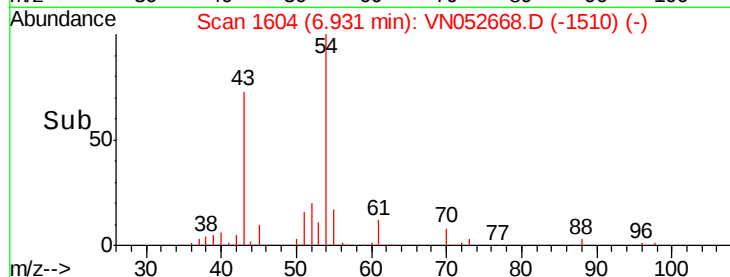
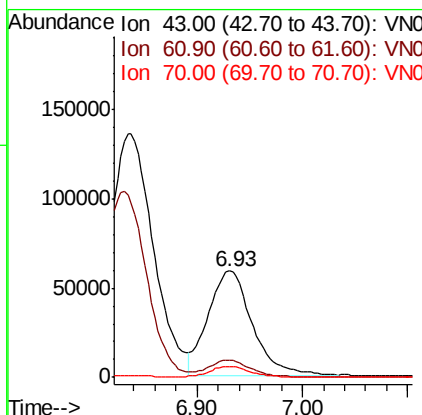
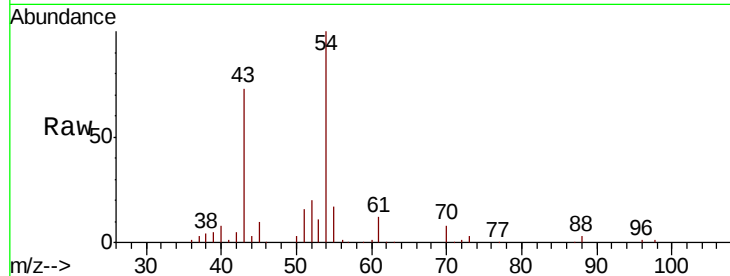
#37
Ethyl Acetate
Concen: 20.454 ug/l
RT: 6.93 min Scan# 1604
Delta R.T. 0.00 min
Lab File: VN052668.D
Acq: 5 Dec 2018 11:33

Instrument :
MSVOA_N
ClientSampleId :
VN1205WBSD01

Tot Ion	43	61	70
Resp	171495		
Ratio	100	15.3	9.5
Lower		11.8	7.8
Upper		17.8	11.8

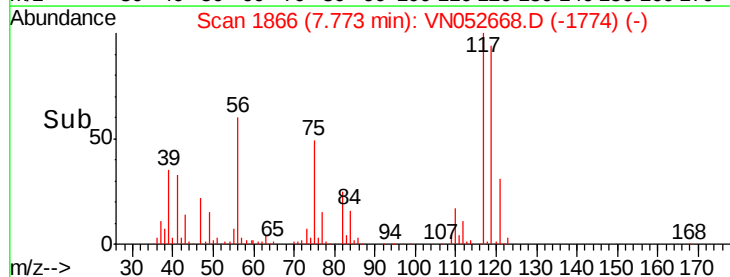
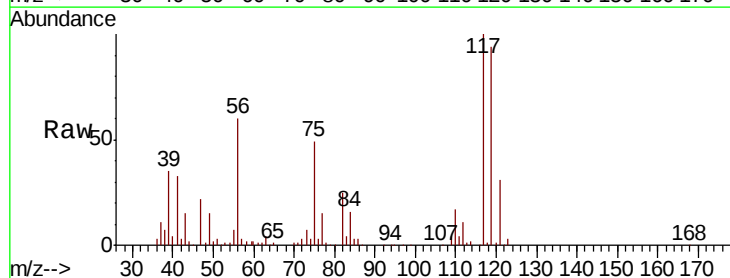
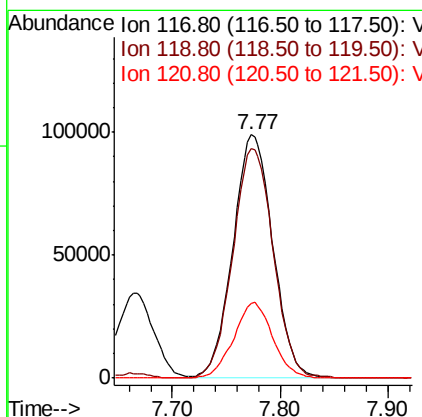
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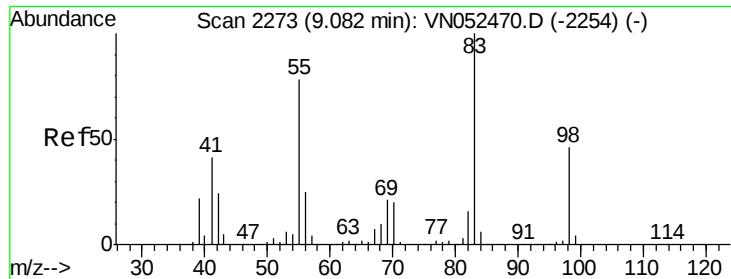
MMDadoda
12/6/2018 9:09:01 AM



#38
Carbon Tetrachloride
Concen: 20.349 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. -0.00 min
Lab File: VN052668.D
Acq: 5 Dec 2018 11:33

Tgt Ion	117	119	121
Resp	253068		
Ratio	100	94.2	30.7
Lower		76.8	24.9
Upper		115.2	37.3





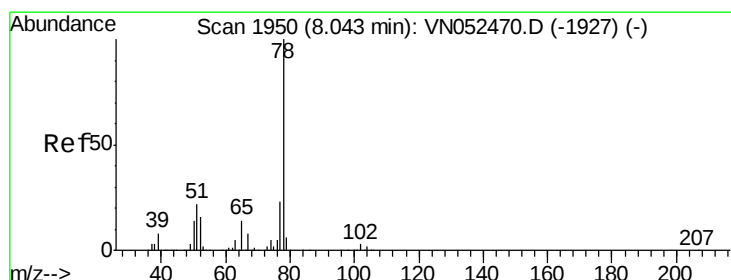
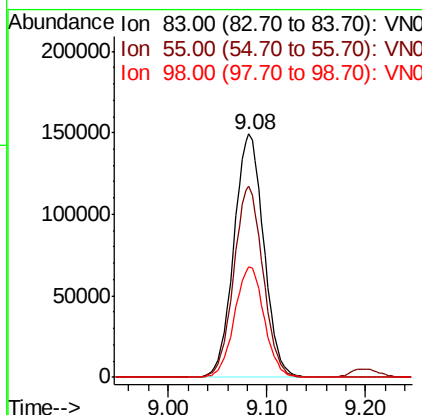
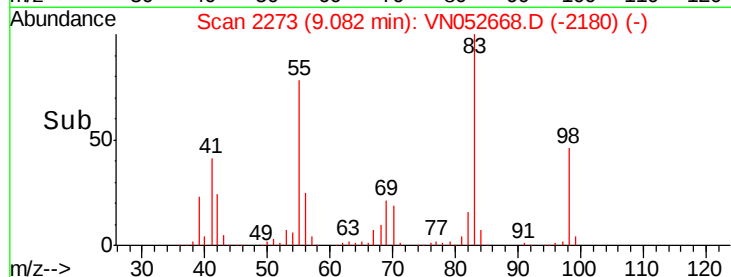
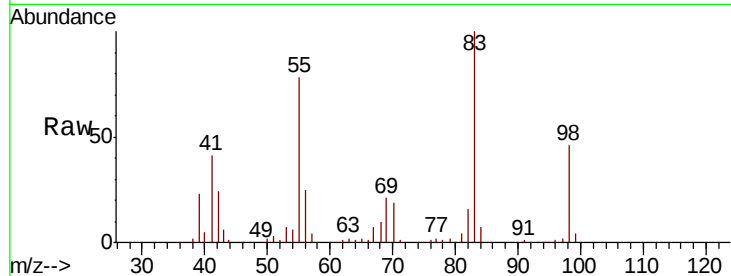
#39
Methvlcvclohexane
Concen: 18.759 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN052668.D
Acq: 5 Dec 2018 11:33

Instrument :
MSVOA_N
ClientSampleId :
VN1205WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
83	100			
55	78.4	62.2	93.2	
98	45.6	36.4	54.6	

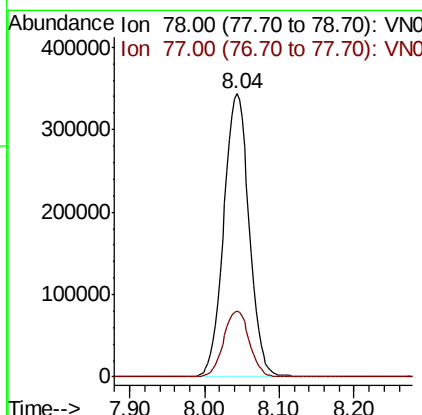
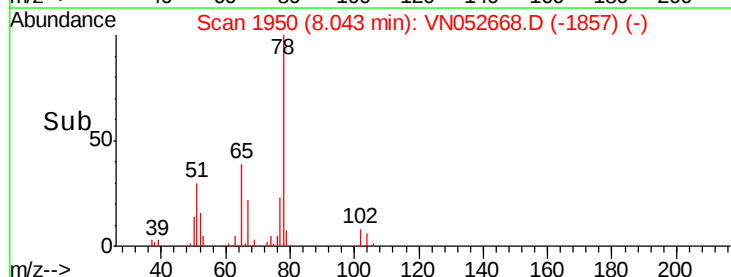
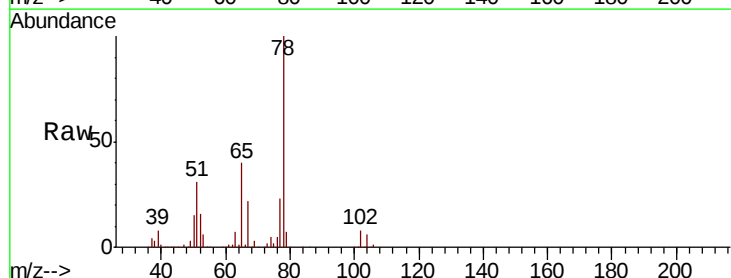
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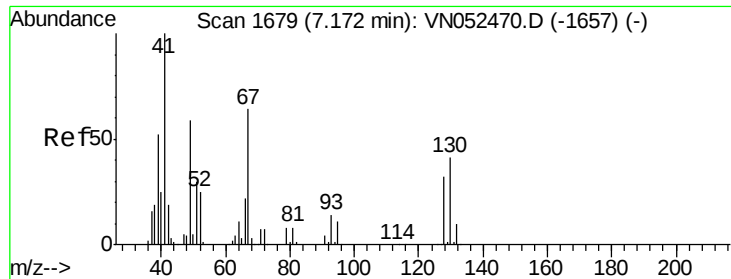
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#40
Benzene
Concen: 19.741 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN052668.D
Acq: 5 Dec 2018 11:33

Tgt Ion	Ratio	Resp	Lower	Upper
78	100			
77	23.2	18.8	28.2	





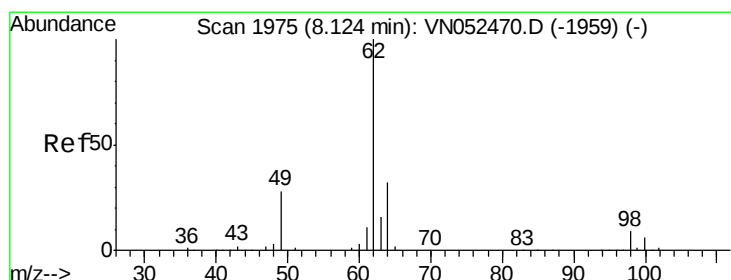
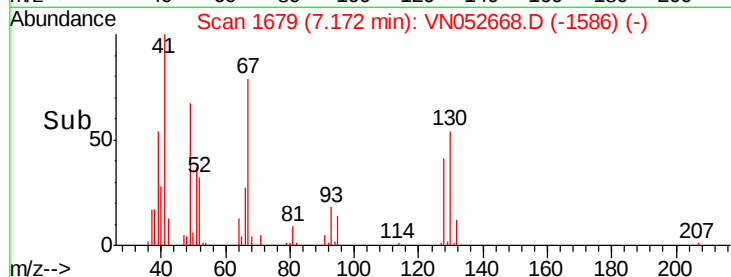
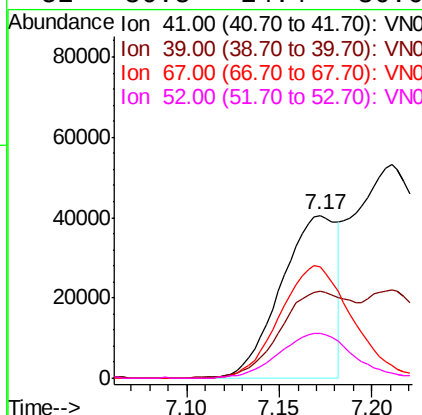
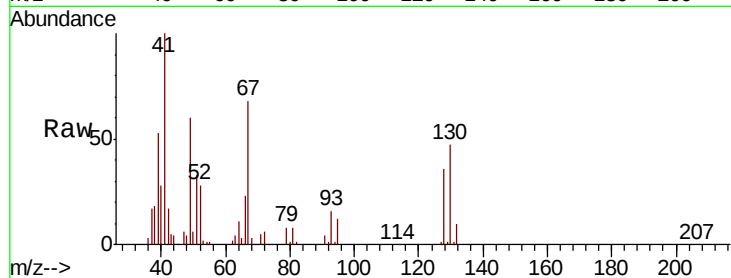
#41
Methacrylonitrile
Concen: 18.677 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. 0.00 min
Lab File: VN052668.D
Acq: 5 Dec 2018 11:33

Instrument :
MSVOA_N
ClientSampleId :
VN1205WBSD01

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	71.1	50.9	76.3	
67	91.0	63.6	95.4	
52	36.8	24.4	36.6	#

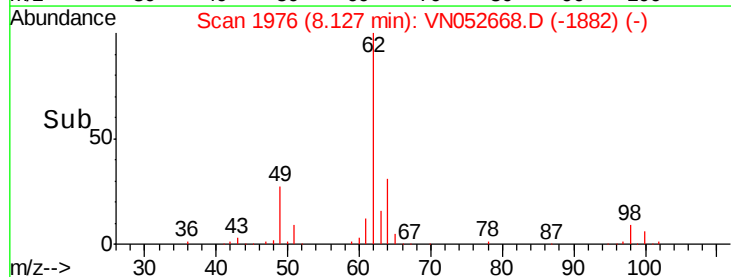
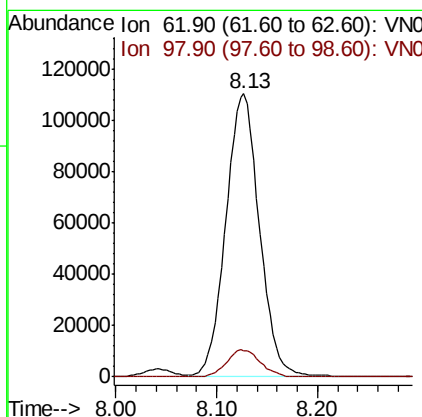
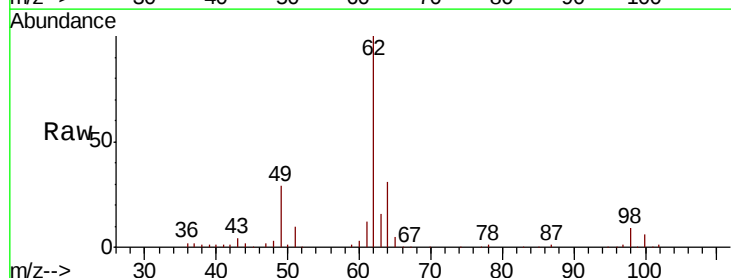
Manual Integrations
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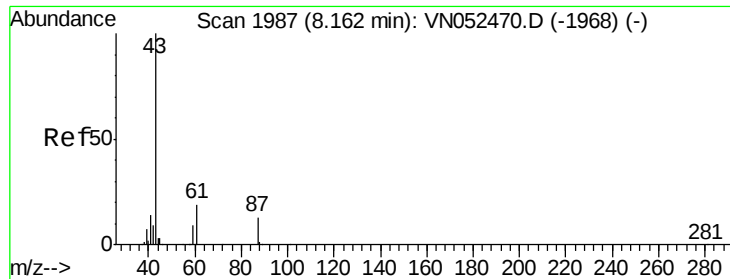
MMDadoda
12/6/2018 9:09:01 AM



#42
1,2-Dichloroethane
Concen: 20.527 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN052668.D
Acq: 5 Dec 2018 11:33

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	9.7	0.0	18.6	





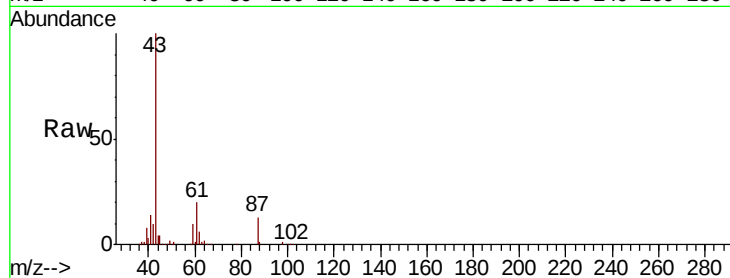
#43
Isopropyl Acetate
Concen: 21.612 ug/l
RT: 8.16 min Scan# 1987
Delta R.T. 0.00 min
Lab File: VN052668.D
Acq: 5 Dec 2018 11:33

Instrument :
MSVOA_N
ClientSampled :
VN1205WBSD01

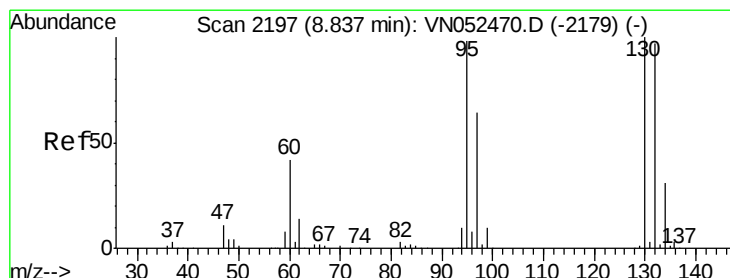
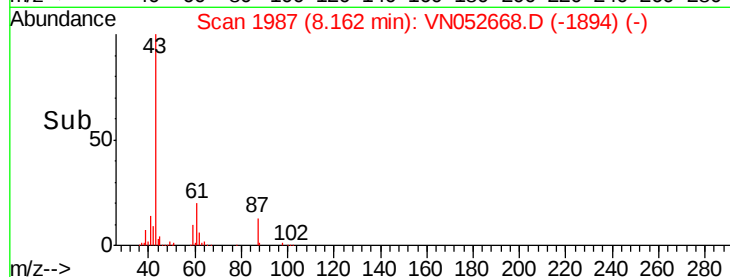
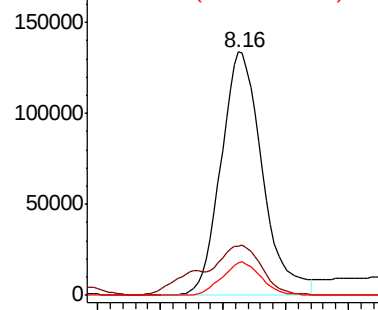
Tot Ion	Ratio	Lower	Upper
43	100		
61	20.1	24.1	36.1#
87	13.1	10.6	15.8

Manual Integrations
APPROVED

MMDadoda
12/6/2018 9:09:01 AM

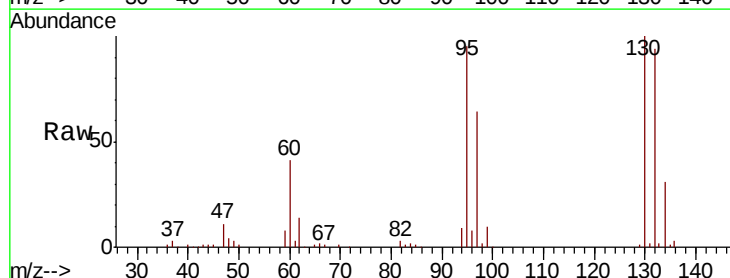


Abundance Ion 43.00 (42.70 to 43.70): VN052470.D (-1968) (-)
Ion 61.00 (60.70 to 61.70): VN052470.D (-1968) (-)
Ion 87.00 (86.70 to 87.70): VN052470.D (-1968) (-)

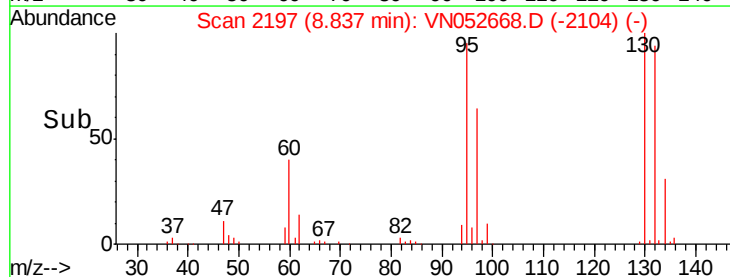
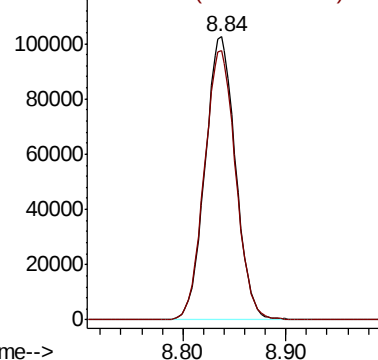


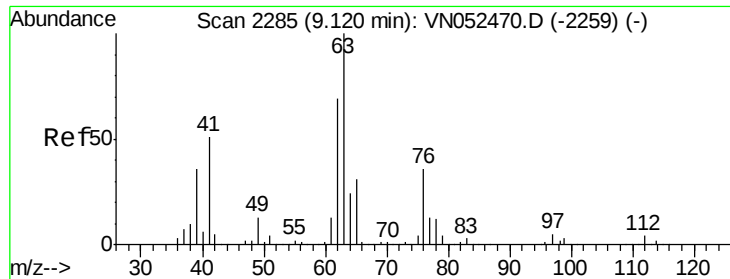
#44
Trichloroethene
Concen: 20.072 ug/l
RT: 8.84 min Scan# 2197
Delta R.T. 0.00 min
Lab File: VN052668.D
Acq: 5 Dec 2018 11:33

Tgt Ion	Ratio	Lower	Upper
130	100		
95	95.2	0.0	195.6



Abundance Ion 129.80 (129.50 to 130.50): VN052470.D (-2179) (-)
Ion 94.90 (94.60 to 95.60): VN052470.D (-2179) (-)





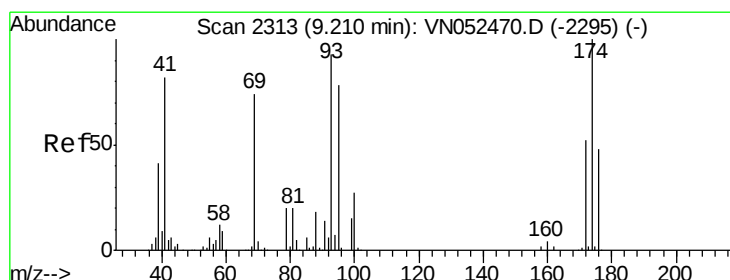
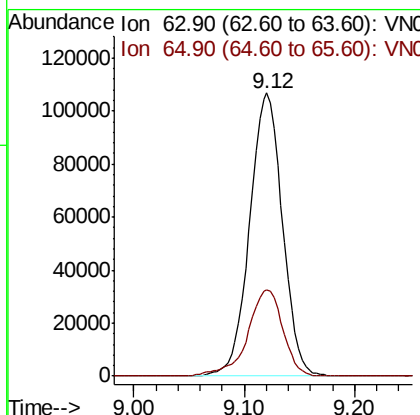
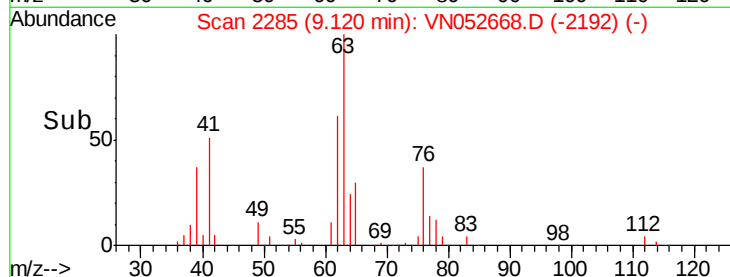
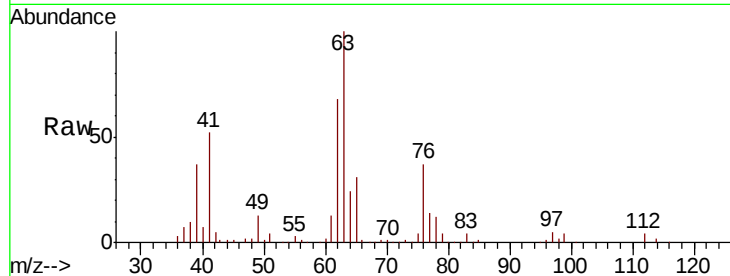
#45
 1,2-Dichloropropane
 Concen: 20.237 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN052668.D
 Acq: 5 Dec 2018 11:33

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1205WBSD01

Tot Ion: 63 Resp: 220283
 Ion Ratio Lower Upper
 63 100
 65 30.6 25.0 37.6

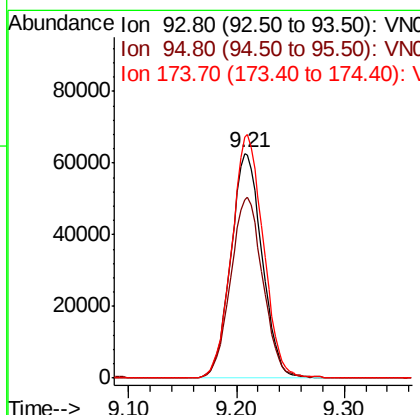
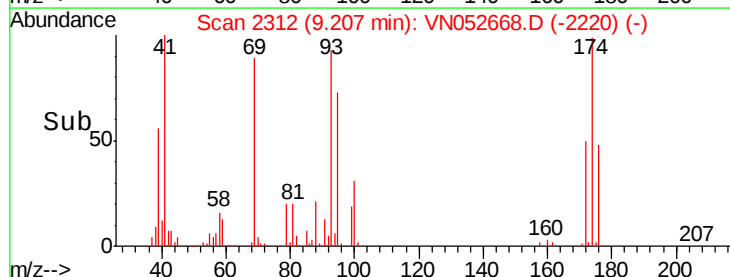
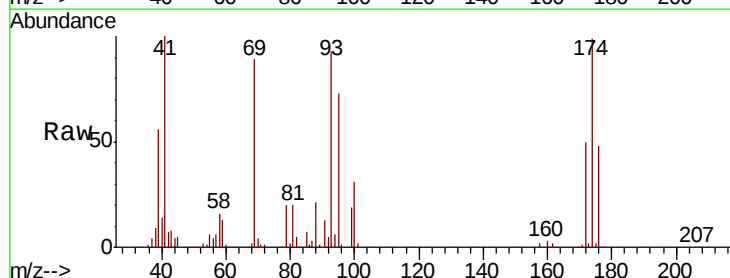
Manual Integrations
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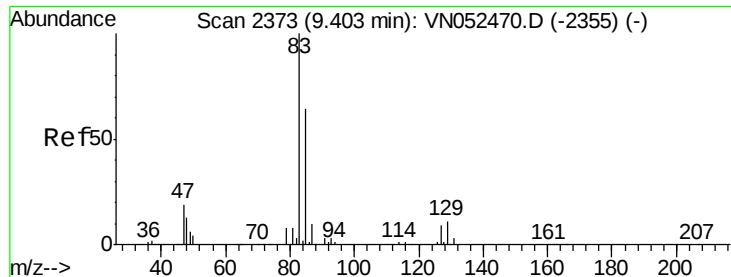
MMDadoda
 12/6/2018 9:09:01 AM



#46
 Dibromomethane
 Concen: 21.087 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. -0.00 min
 Lab File: VN052668.D
 Acq: 5 Dec 2018 11:33

Tgt Ion: 93 Resp: 127067
 Ion Ratio Lower Upper
 93 100
 95 82.5 67.1 100.7
 174 109.4 85.8 128.8





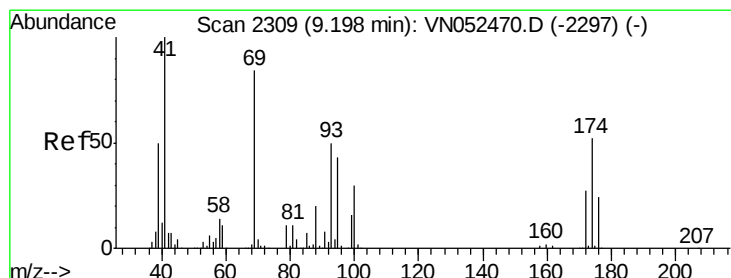
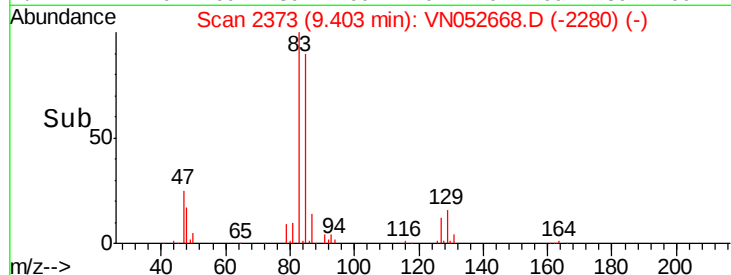
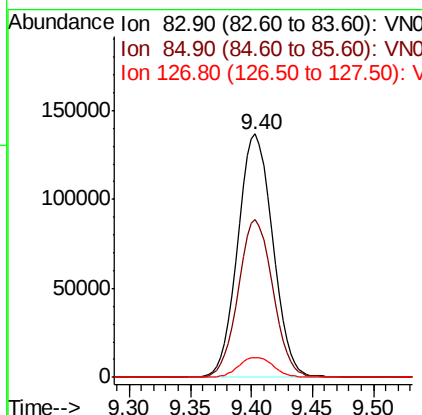
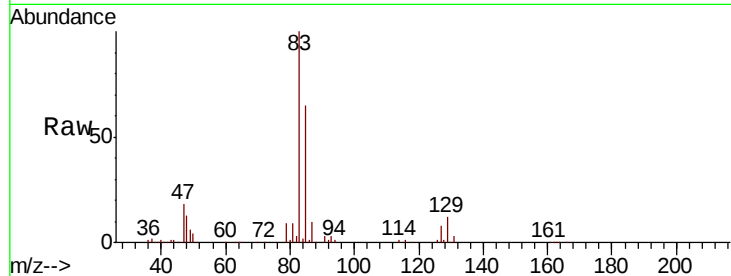
#47
Bromodichloromethane
Concen: 20.719 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. 0.00 min
Lab File: VN052668.D
Acq: 5 Dec 2018 11:33

Instrument :
MSVOA_N
ClientSampleId :
VN1205WBSD01

Tot Ion	83	Resp	271438
Ion Ratio	100	Lower	Upper
83	100		
85	64.6	51.3	76.9
127	8.3	6.9	10.3

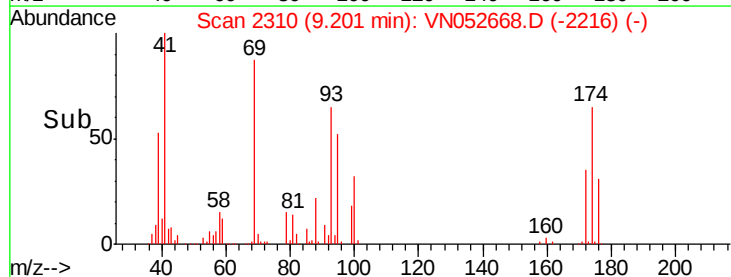
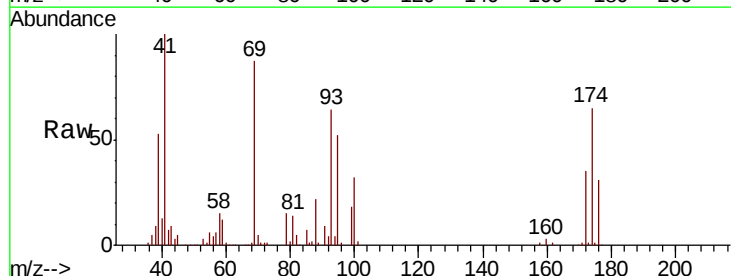
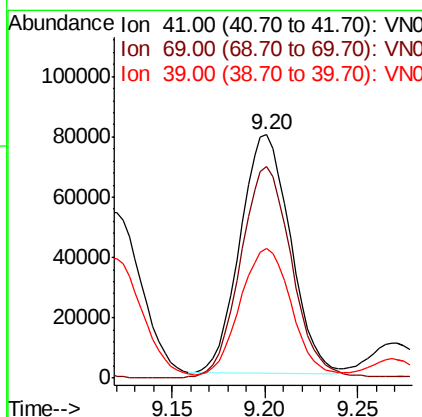
Manual Integrations
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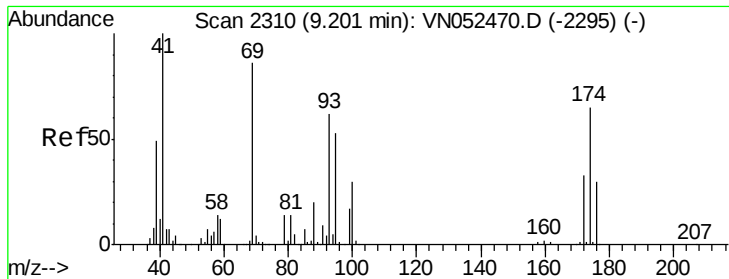
MMDadoda
12/6/2018 9:09:01 AM



#48
Methyl methacrylate
Concen: 20.206 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN052668.D
Acq: 5 Dec 2018 11:33

Tgt Ion	41	Resp	149490
Ion Ratio	100	Lower	Upper
41	100		
69	90.5	70.0	105.0
39	56.0	42.6	64.0





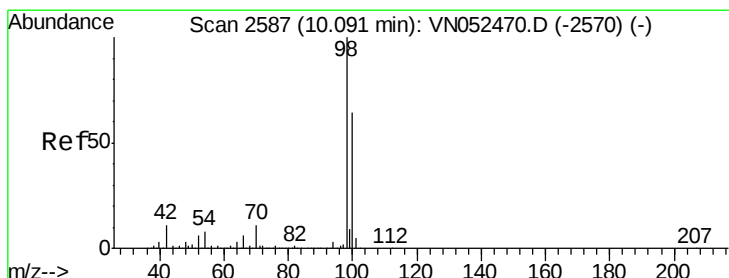
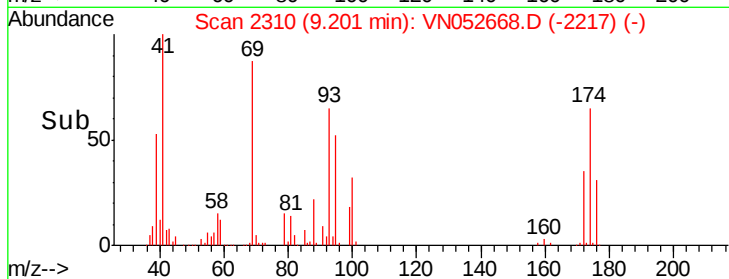
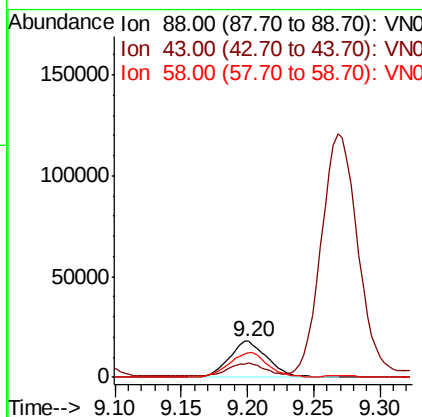
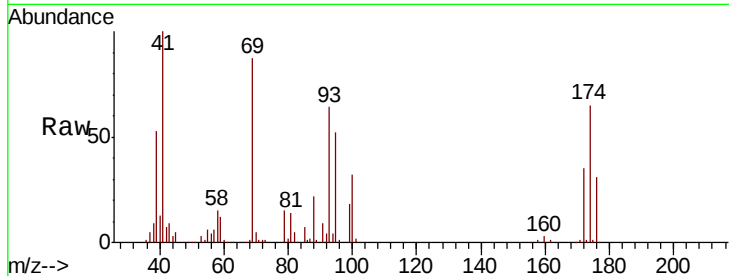
#49
1,4-Dioxane
Concen: 471.902 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN052668.D
Acq: 5 Dec 2018 11:33

Instrument :
MSVOA_N
ClientSampleId :
VN1205WBSD01

Tot Ion	Ratio	Lower	Upper
88	100		
43	34.7	26.4	39.6
58	68.9	55.4	83.0

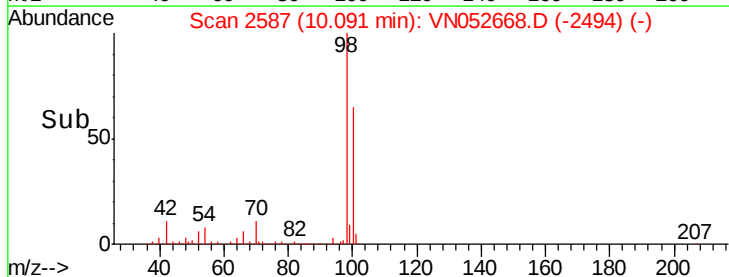
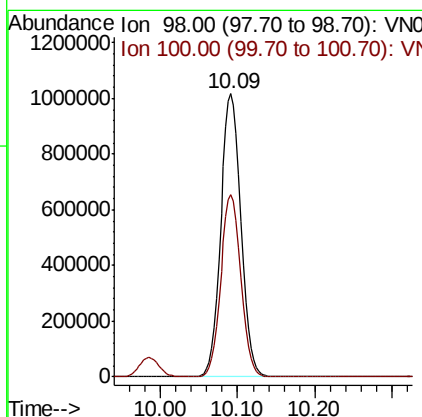
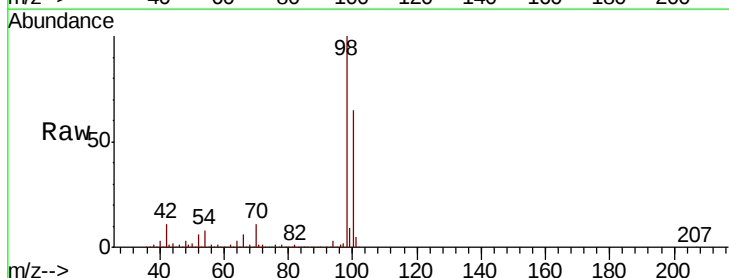
Manual Integrations
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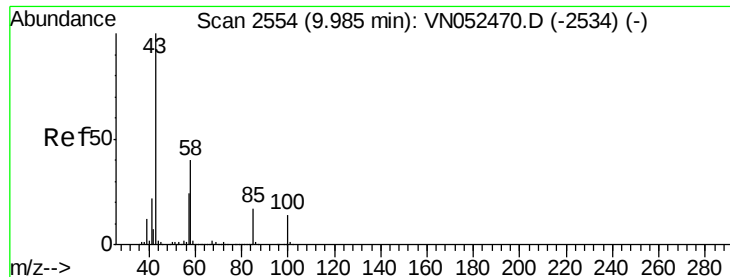
MMDadoda
12/6/2018 9:09:01 AM



#50
Toluene-d8
Concen: 471.902 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN052668.D
Acq: 5 Dec 2018 11:33

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.2	51.3	76.9





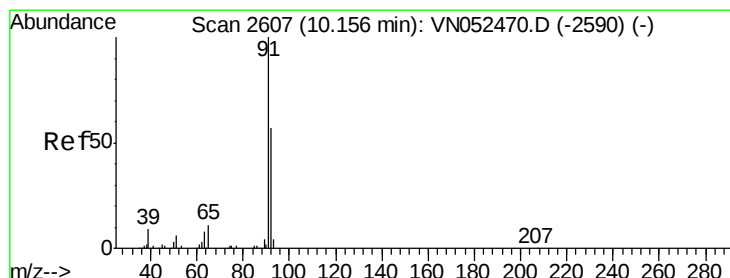
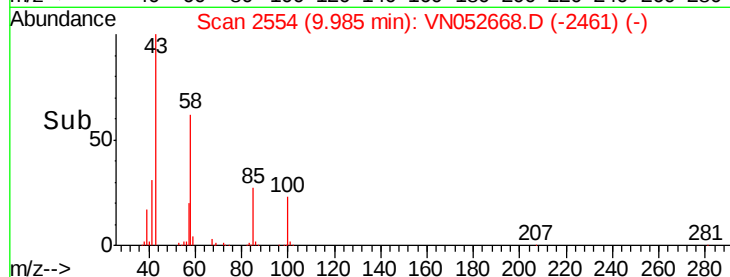
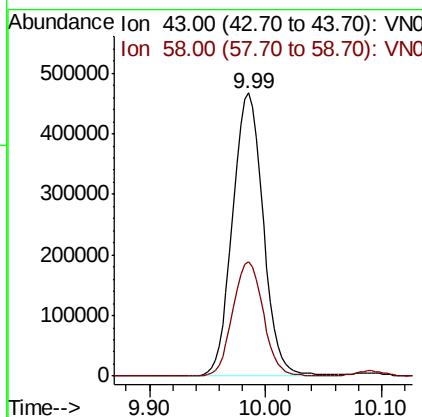
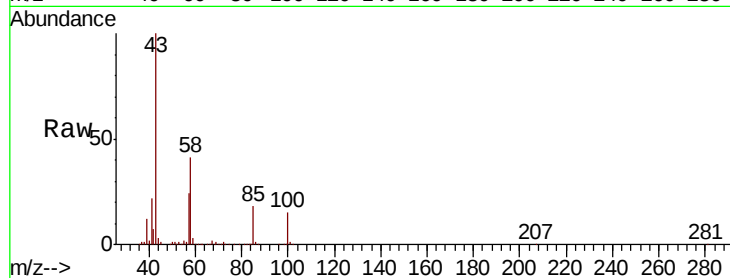
#51
4-Methyl-2-Pentanone
Concen: 107.467 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN052668.D
Acq: 5 Dec 2018 11:33

Instrument :
MSVOA_N
ClientSampleId :
VN1205WBSD01

Tot Ion	43	Resp	855528
Ion Ratio	100	Lower	Upper
43	100		
58	40.4	31.5	47.3

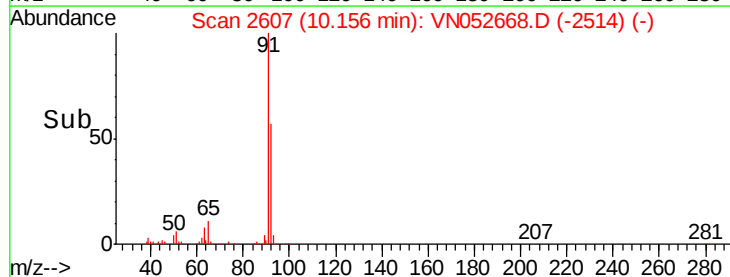
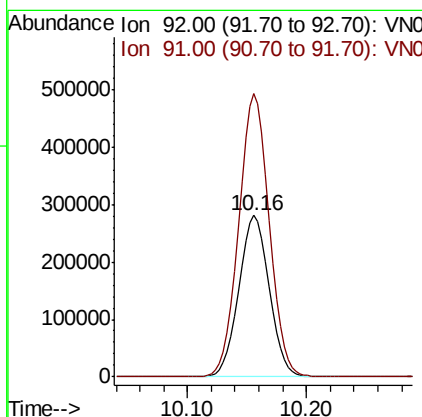
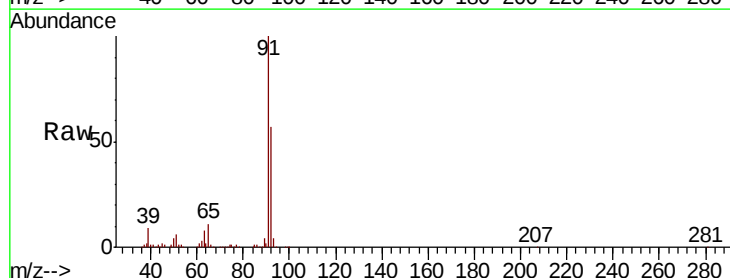
Manual Integrations
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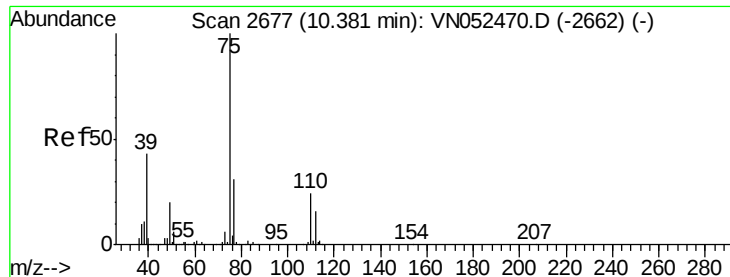
MMDadoda
12/6/2018 9:09:01 AM



#52
Toluene
Concen: 20.446 ug/l
RT: 10.16 min Scan# 2607
Delta R.T. 0.00 min
Lab File: VN052668.D
Acq: 5 Dec 2018 11:33

Tgt Ion	92	Resp	497355
Ion Ratio	100	Lower	Upper
92	100		
91	175.9	141.0	211.4





#53

t-1,3-Dichloropropene

Concen: 20.751 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. 0.00 min

Lab File: VN052668.D

Acq: 5 Dec 2018 11:33

Instrument :

MSVOA_N

ClientSampleId :

VN1205WBSD01

Tot Ion: 75 Resp: 261531

Ion Ratio Lower Upper

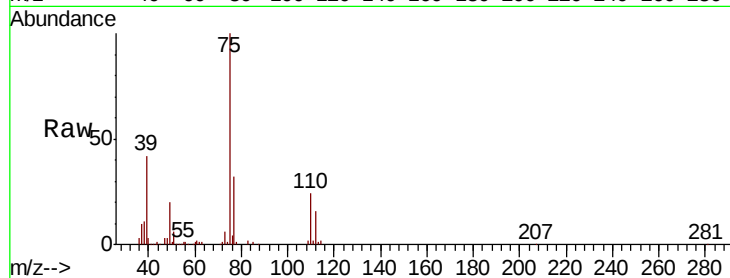
75 100

77 31.5 25.0 37.4

Manual Integrations
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MMDadoda

12/6/2018 9:09:01 AM



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

10.38

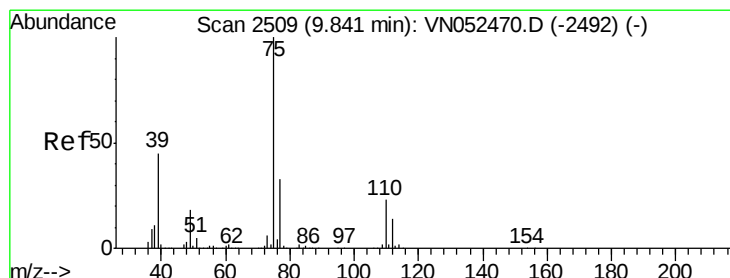
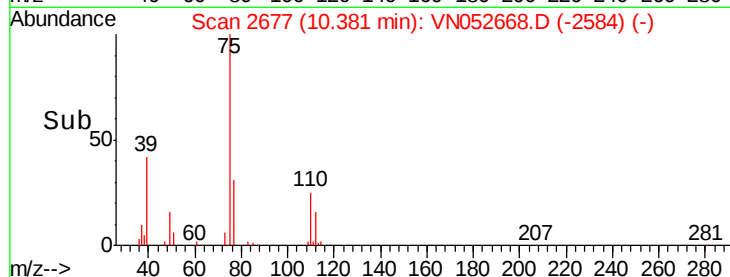
150000

100000

50000

0

Time-->



#54

cis-1,3-Dichloropropene

Concen: 20.510 ug/l

RT: 9.84 min Scan# 2509

Delta R.T. 0.00 min

Lab File: VN052668.D

Acq: 5 Dec 2018 11:33

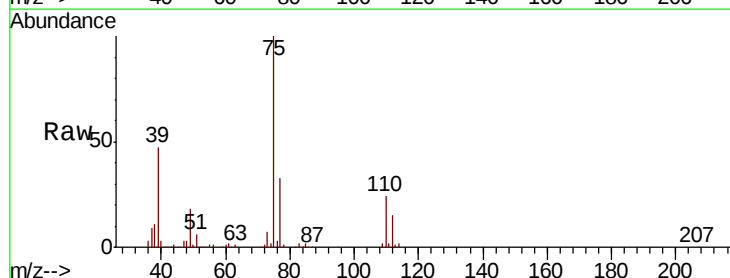
Tgt Ion: 75 Resp: 309782

Ion Ratio Lower Upper

75 100

77 32.7 26.2 39.2

39 46.4 36.0 54.0



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0

9.84

200000

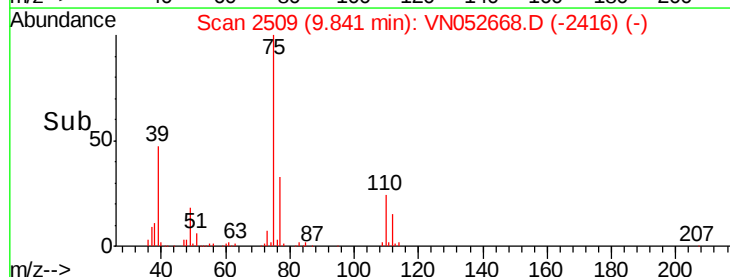
150000

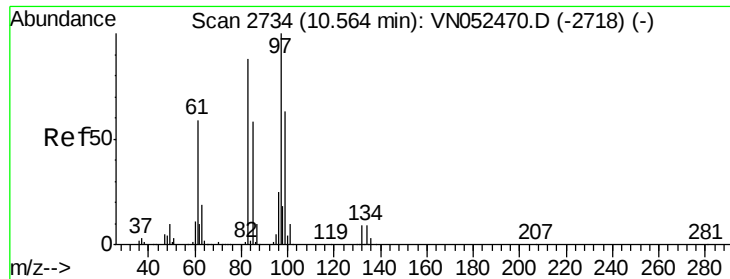
100000

50000

0

Time-->





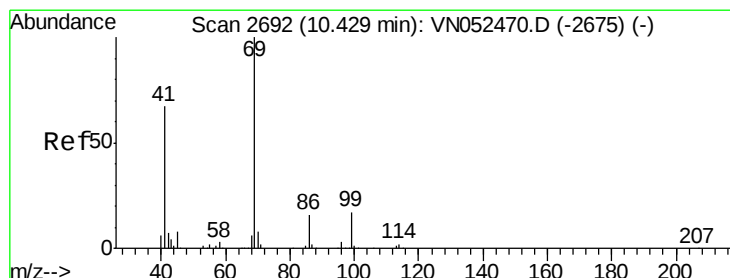
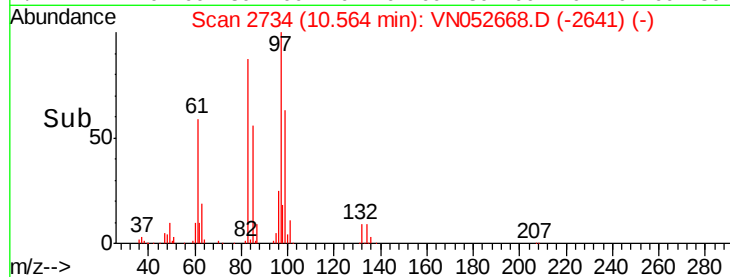
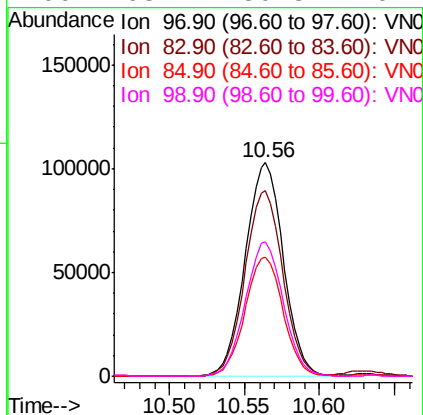
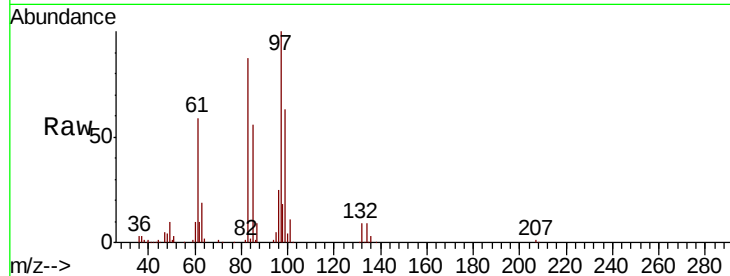
#55
 1,1,2-Trichloroethane
 Concen: 21.346 ug/l
 RT: 10.56 min Scan# 2734
 Delta R.T. 0.00 min
 Lab File: VN052668.D
 Acq: 5 Dec 2018 11:33

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1205WBSD01

Tot Ion:	97	Resp:	182645
Ion	Ratio	Lower	Upper
97	100		
83	86.8	70.7	106.1
85	55.7	46.1	69.1
99	63.1	50.8	76.2

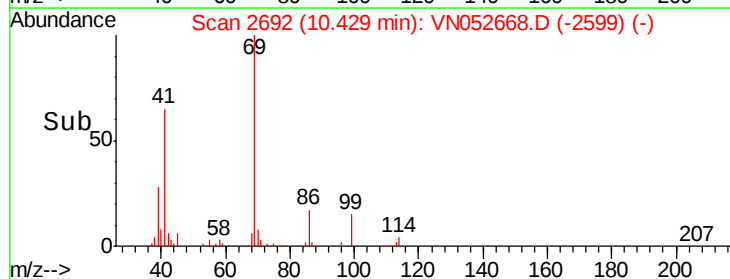
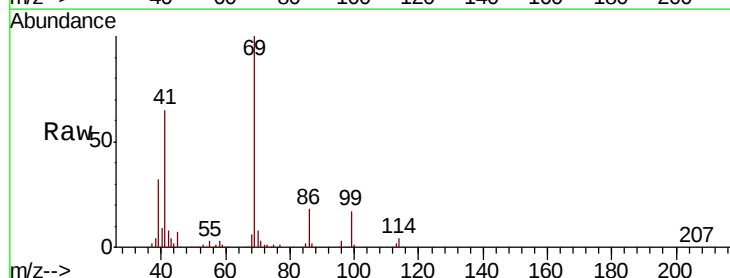
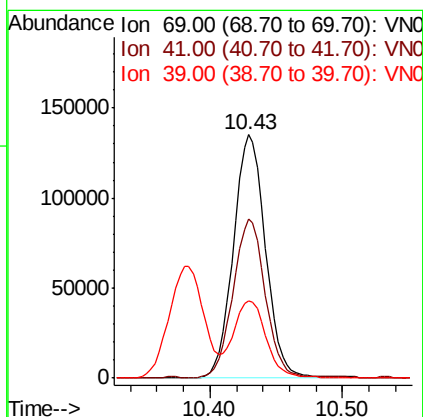
Manual Integrations
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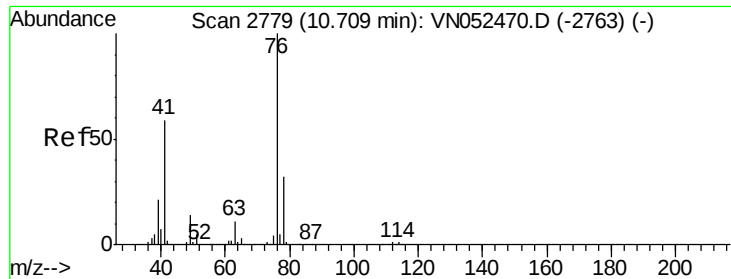
MMDadoda
 12/6/2018 9:09:01 AM



#56
 Ethyl methacrylate
 Concen: 20.809 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN052668.D
 Acq: 5 Dec 2018 11:33

Tgt Ion:	69	Resp:	227501
Ion	Ratio	Lower	Upper
69	100		
41	64.9	52.6	79.0
39	32.4	25.9	38.9





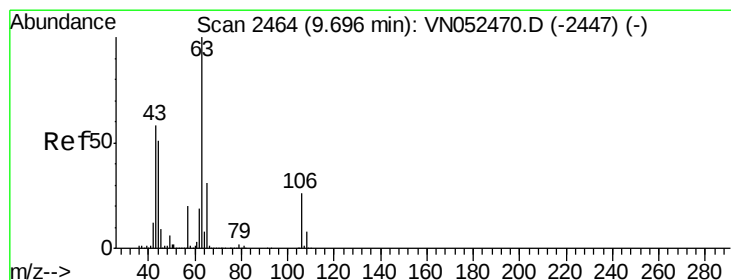
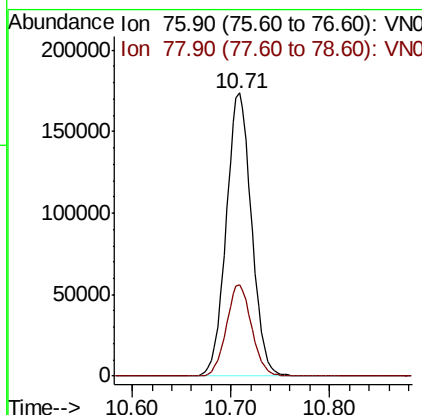
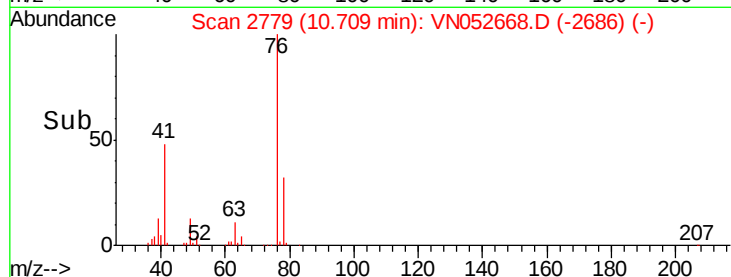
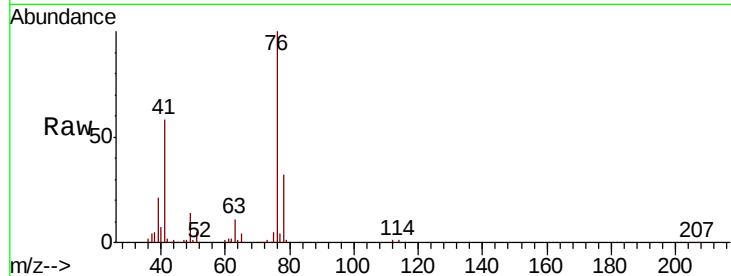
#57
 1,3-Dichloropropane
 Concen: 20.672 ug/l
 RT: 10.71 min Scan# 2779
 Delta R.T. 0.00 min
 Lab File: VN052668.D
 Acq: 5 Dec 2018 11:33

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1205WBSD01

Tot Ion	Ratio	Lower	Upper
76	100		
78	32.3	25.6	38.4

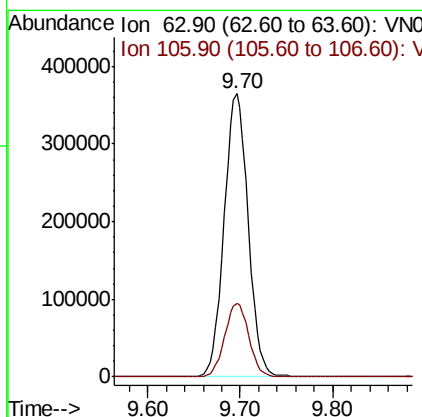
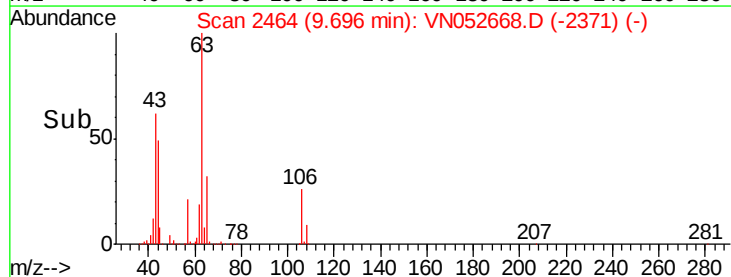
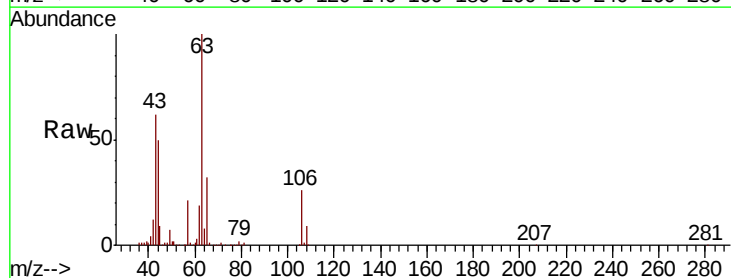
Manual Integrations
 APPROVED

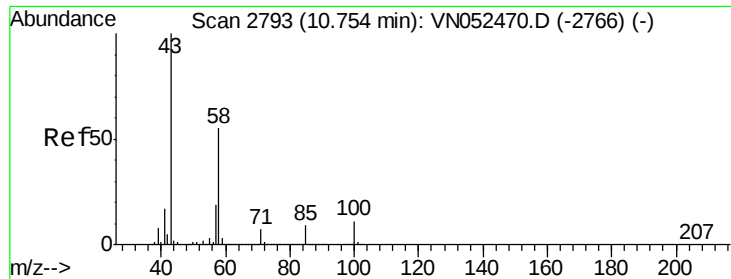
MMDadoda
 12/6/2018 9:09:01 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 105.579 ug/l
 RT: 9.70 min Scan# 2464
 Delta R.T. 0.00 min
 Lab File: VN052668.D
 Acq: 5 Dec 2018 11:33

Tgt Ion	Ratio	Lower	Upper
63	100		
106	26.0	20.6	30.8





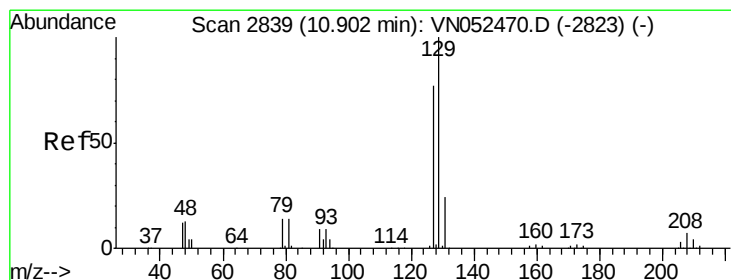
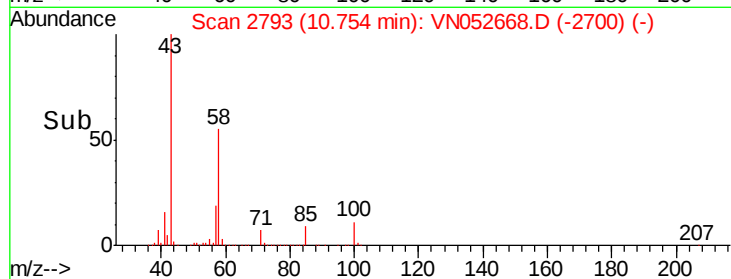
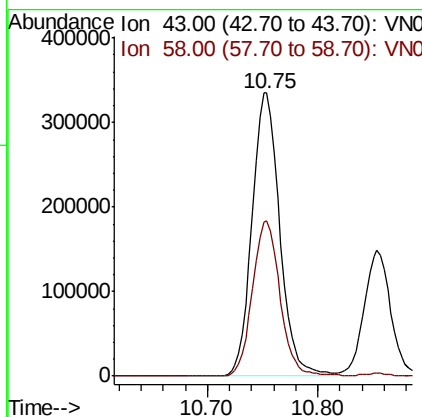
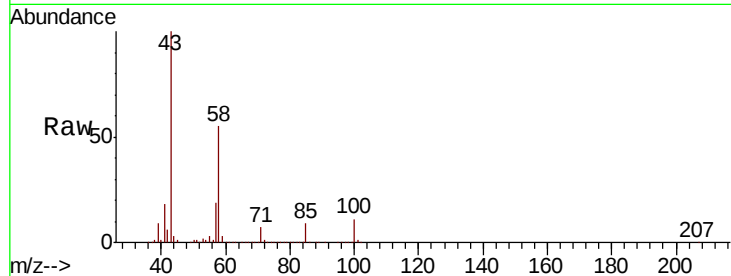
#59
2-Hexanone
Concen: 109.267 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN052668.D
Acq: 5 Dec 2018 11:33

Instrument :
MSVOA_N
ClientSampleId :
VN1205WBSD01

Tot Ion: 43 Resp: 583807
Ion Ratio Lower Upper
43 100
58 54.8 27.4 82.0

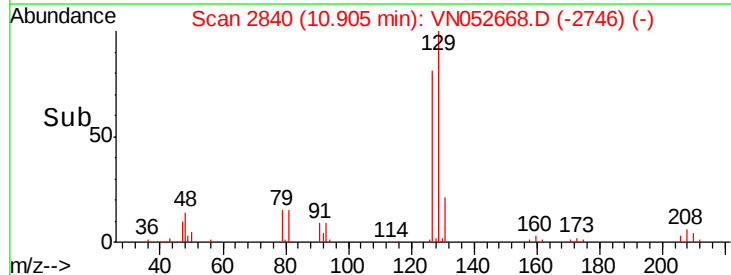
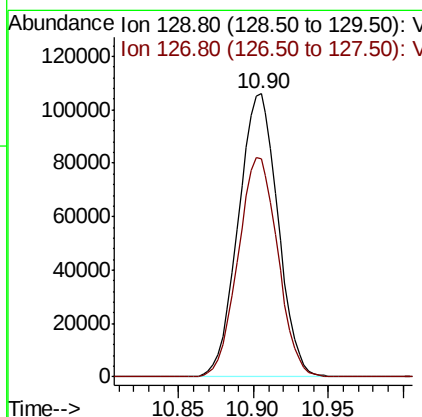
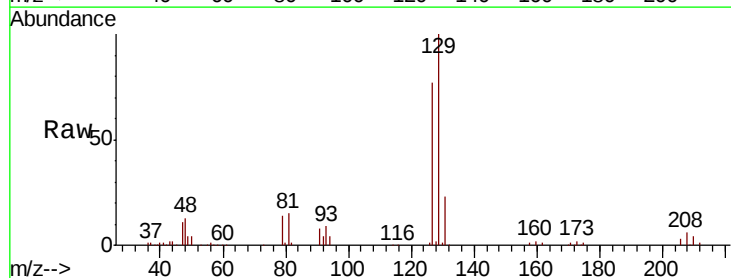
Manual Integrations
APPROVED

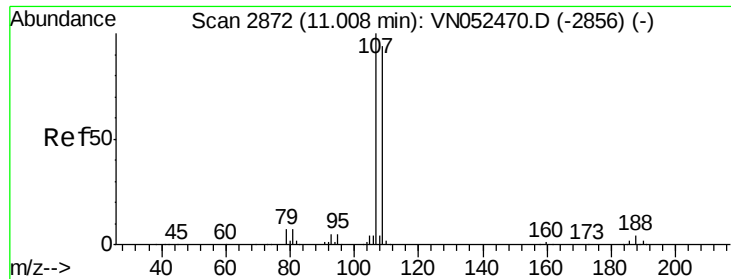
MMDadoda
12/6/2018 9:09:01 AM



#60
Dibromochloromethane
Concen: 21.017 ug/l
RT: 10.90 min Scan# 2840
Delta R.T. 0.00 min
Lab File: VN052668.D
Acq: 5 Dec 2018 11:33

Tgt Ion: 129 Resp: 195316
Ion Ratio Lower Upper
129 100
127 77.7 38.9 116.6





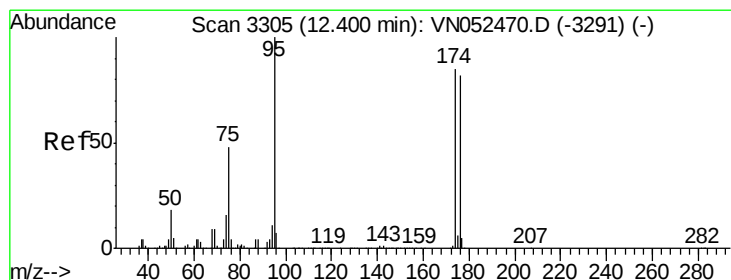
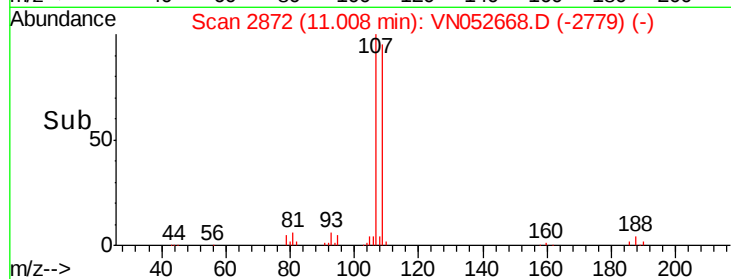
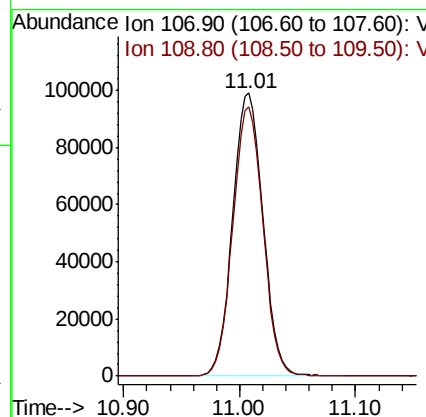
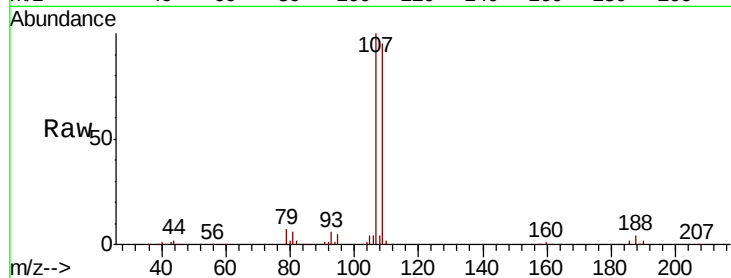
#61
 1,2-Dibromoethane
 Concen: 21.108 ug/l
 RT: 11.01 min Scan# 2872
 Delta R.T. 0.00 min
 Lab File: VN052668.D
 Acq: 5 Dec 2018 11:33

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1205WBSD01

Tot Ion	Ratio	Lower	Upper
107	100		
109	94.6	75.6	113.4

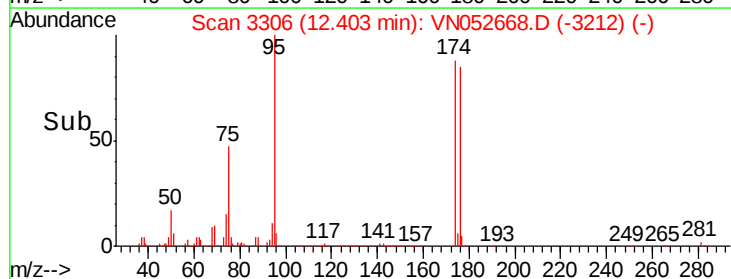
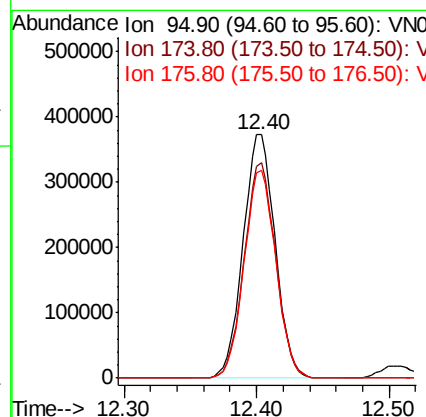
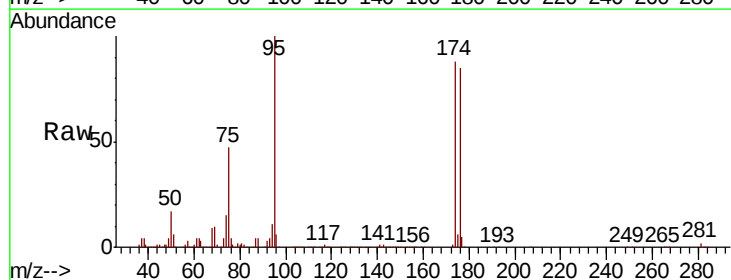
Manual Integrations
 APPROVED

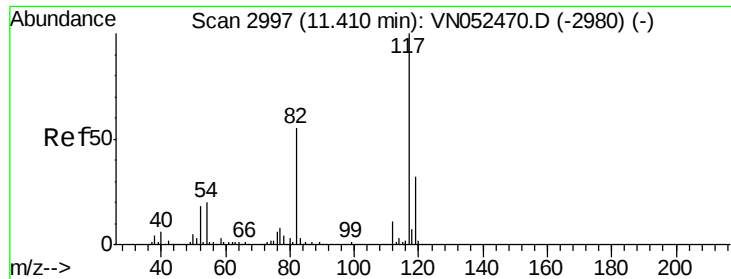
MMDadoda
 12/6/2018 9:09:01 AM



#62
 4-Bromofluorobenzene
 Concen: 21.108 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.00 min
 Lab File: VN052668.D
 Acq: 5 Dec 2018 11:33

Tgt Ion	Ratio	Lower	Upper
95	100		
174	87.5	0.0	173.0
176	84.9	0.0	166.2





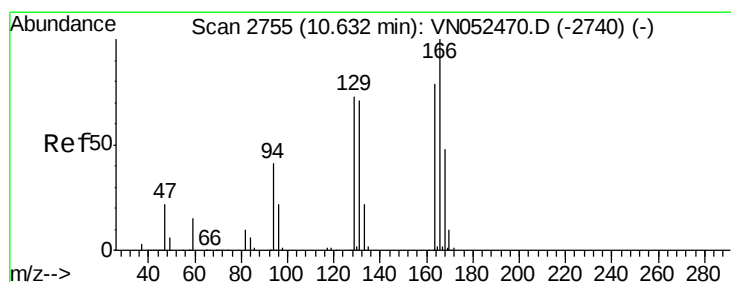
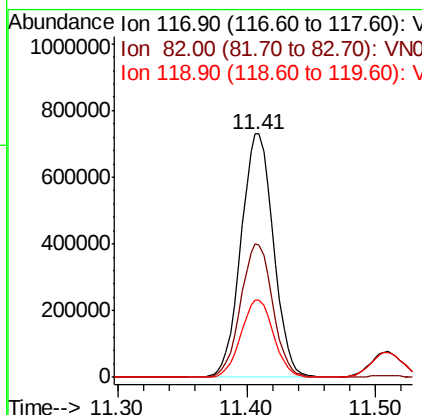
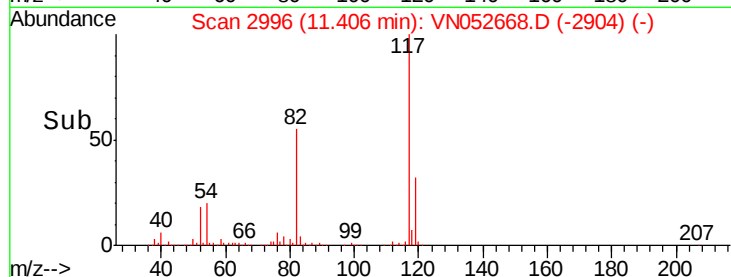
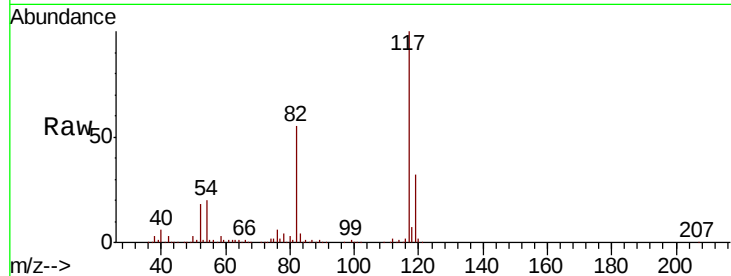
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN052668.D
Acq: 5 Dec 2018 11:33

Instrument :
MSVOA_N
ClientSampleId :
VN1205WBSD01

Tot Ion:117 Resp: 1279620
Ion Ratio Lower Upper
117 100
82 54.6 43.6 65.4
119 31.8 25.4 38.2

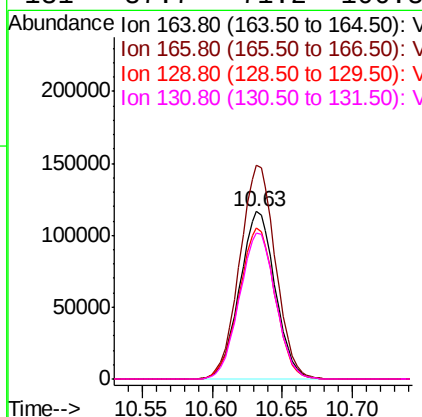
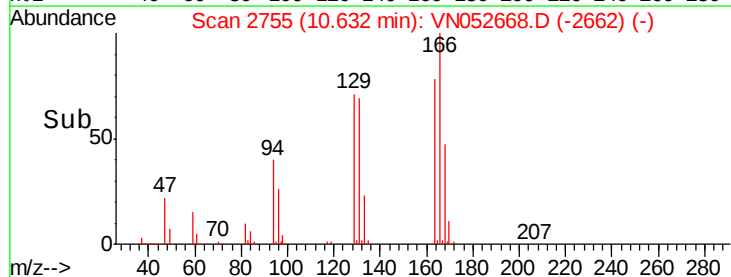
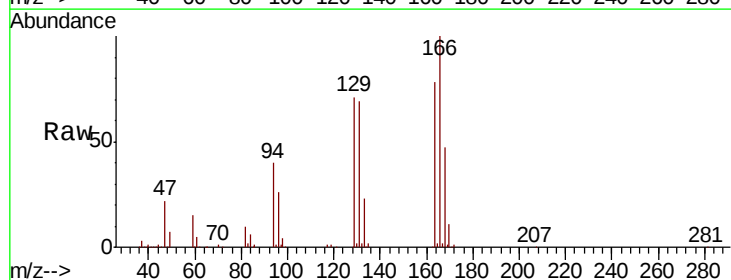
Manual Integrations
APPROVED

MMDadoda
12/6/2018 9:09:01 AM



#64
Tetrachloroethene
Concen: 20.792 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN052668.D
Acq: 5 Dec 2018 11:33

Tgt Ion:164 Resp: 206282
Ion Ratio Lower Upper
164 100
166 127.8 101.0 151.4
129 90.1 73.8 110.6
131 87.7 71.2 106.8





#65

Chlorobenzene

Concen: 20.609 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. 0.00 min

Lab File: VN052668.D

Acq: 5 Dec 2018 11:33

Instrument :

MSVOA_N

ClientSampled :

VN1205WBSD01

Tot Ion:112 Resp: 543774

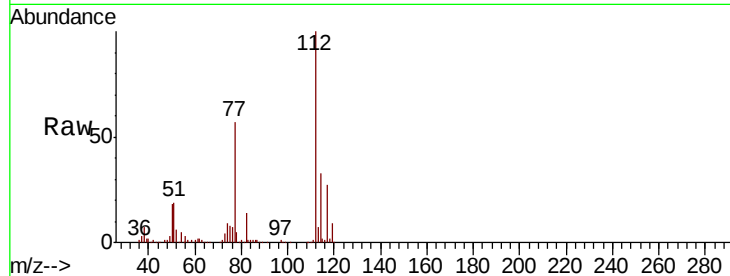
Ion Ratio Lower Upper

112 100

114 32.5 25.8 38.6

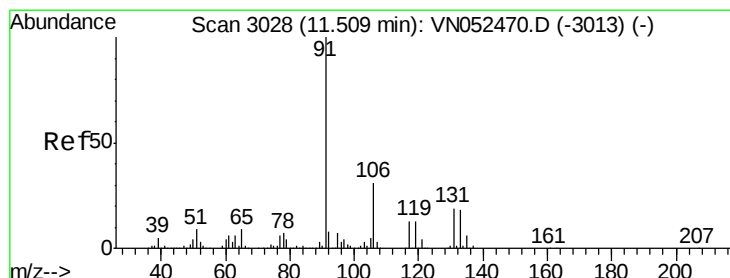
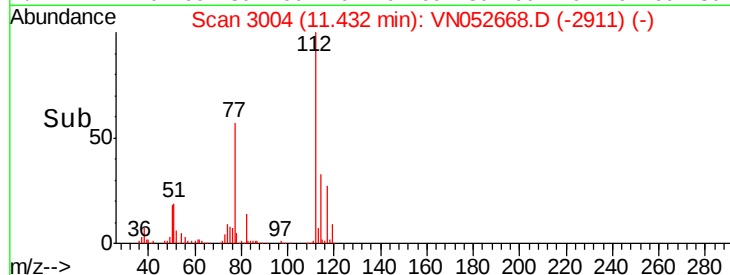
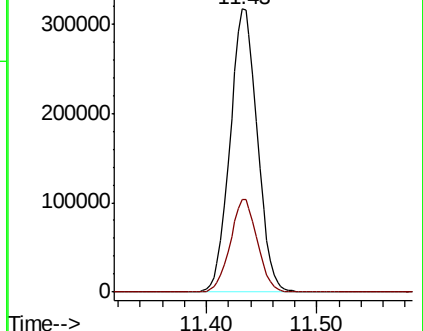
Manual Integrations
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12/6/2018 9:09:01 AM



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 21.032 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN052668.D

Acq: 5 Dec 2018 11:33

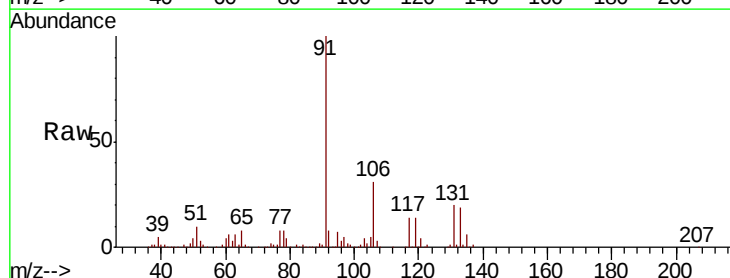
Tgt Ion:131 Resp: 192958

Ion Ratio Lower Upper

131 100

133 95.8 47.6 142.8

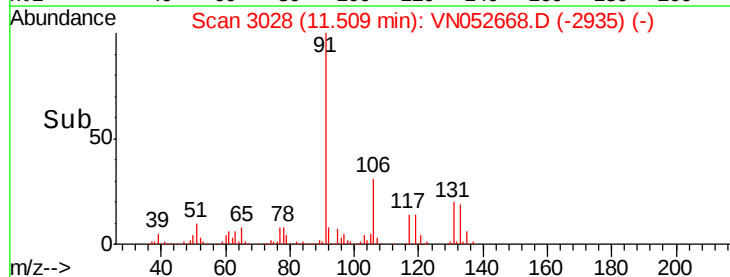
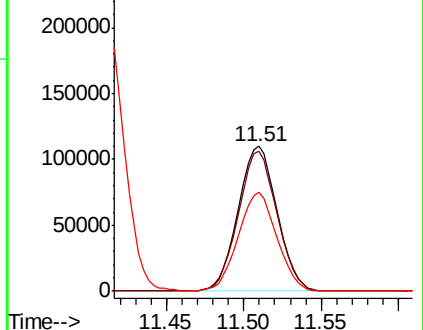
119 67.5 33.2 99.6

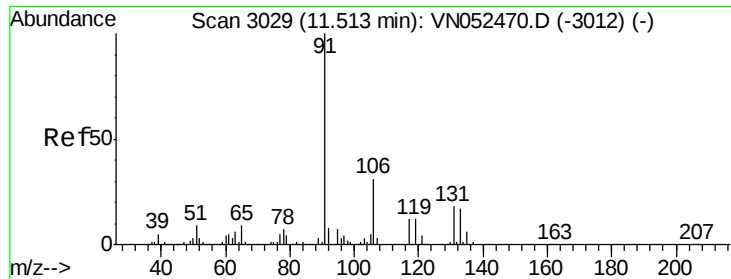


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





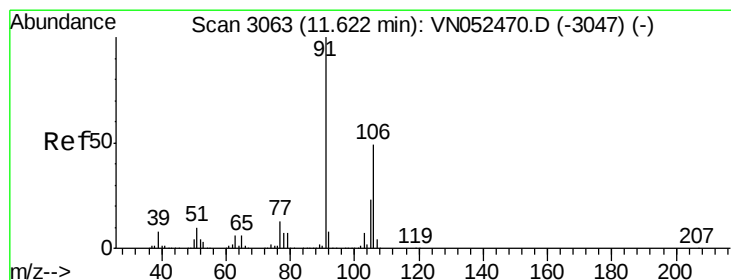
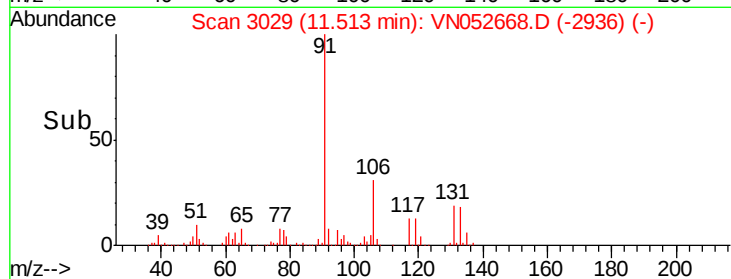
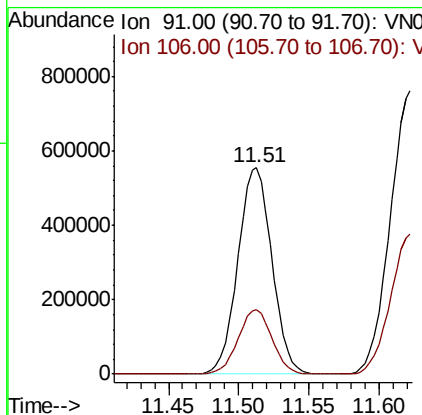
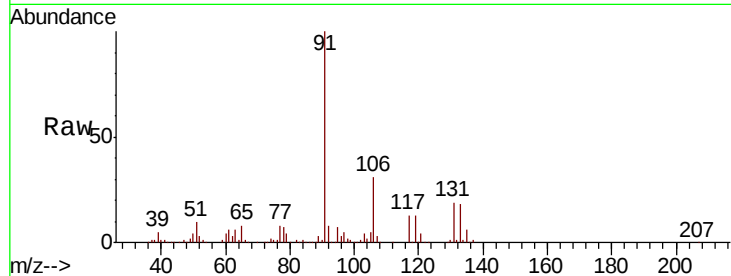
#67
Ethyl Benzene
Concen: 20.305 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. 0.00 min
Lab File: VN052668.D
Acq: 5 Dec 2018 11:33

Instrument :
MSVOA_N
ClientSampleId :
VN1205WBSD01

Tot Ion: 91 Resp: 938227
Ion Ratio Lower Upper
91 100
106 31.2 24.9 37.3

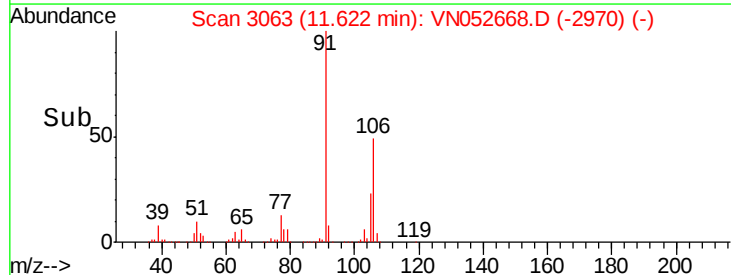
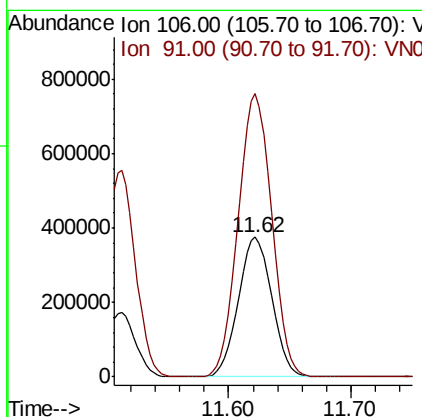
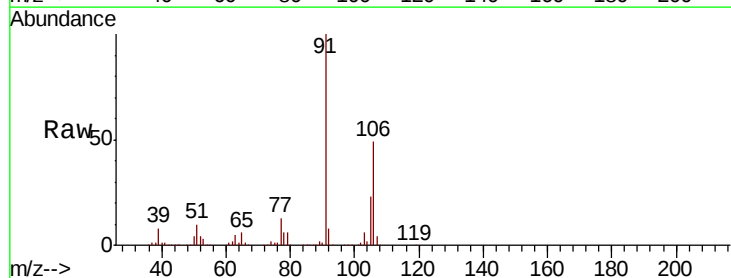
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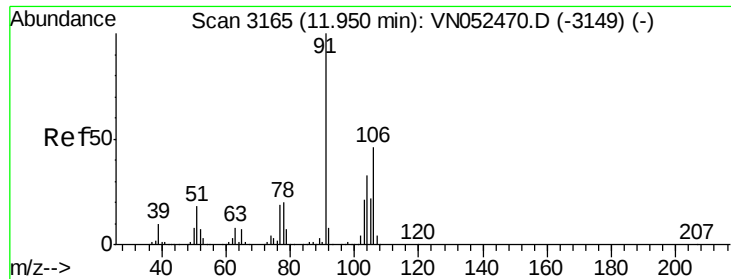
MMDadoda
12/6/2018 9:09:01 AM



#68
m/p-Xylenes
Concen: 41.268 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN052668.D
Acq: 5 Dec 2018 11:33

Tgt Ion: 106 Resp: 709867
Ion Ratio Lower Upper
106 100
91 203.4 163.2 244.8





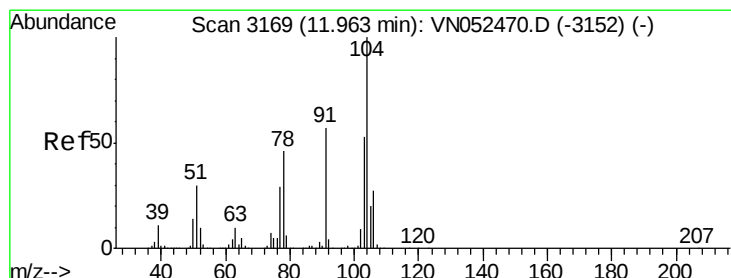
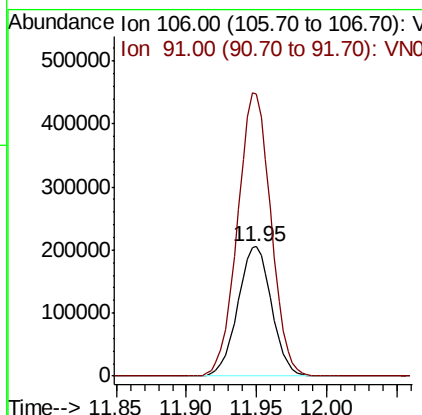
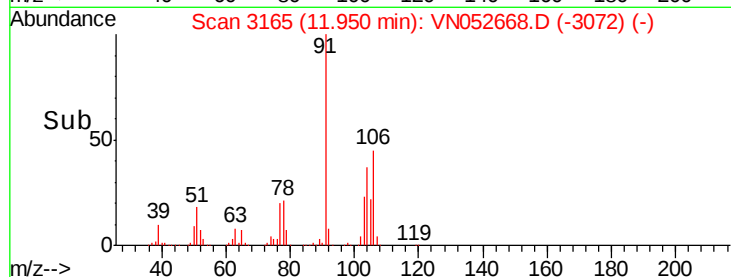
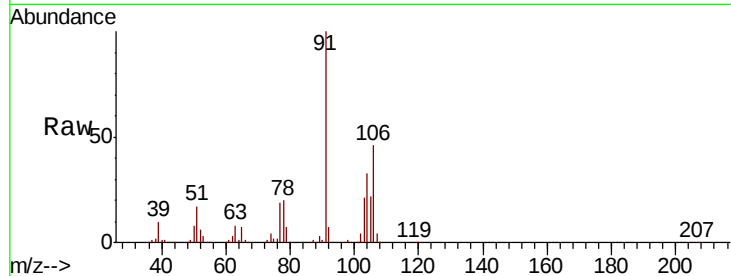
#69
o-Xylene
Concen: 20.614 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. 0.00 min
Lab File: VN052668.D
Acq: 5 Dec 2018 11:33

Instrument :
MSVOA_N
ClientSampleId :
VN1205WBSD01

Tot Ion	Ion	Ratio	Lower	Upper
344337	106			
100	106	100		
216.3	91		107.7	323.1

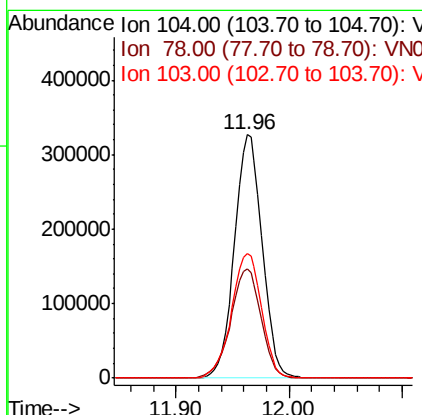
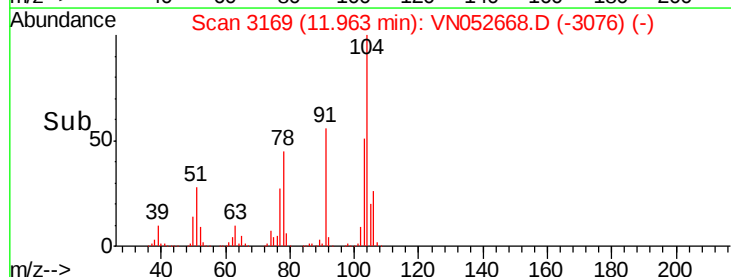
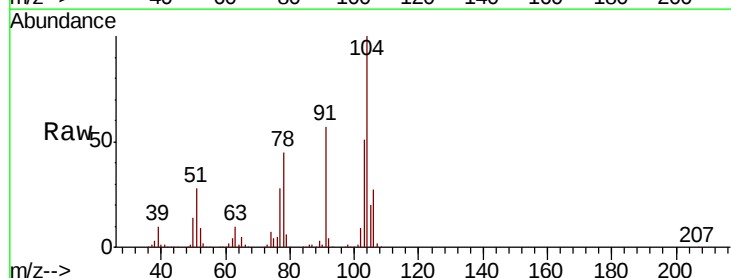
Manual Integrations
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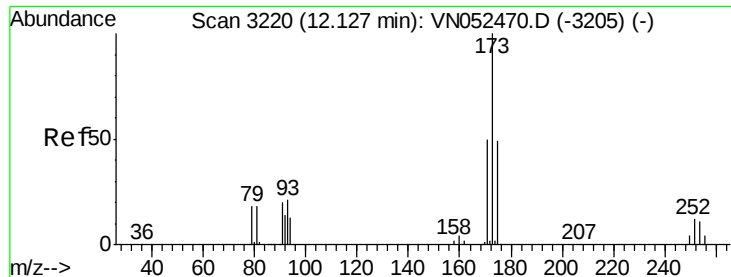
MMDadoda
12/6/2018 9:09:01 AM



#70
Styrene
Concen: 20.948 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN052668.D
Acq: 5 Dec 2018 11:33

Tgt Ion	Ion	Ratio	Lower	Upper
557322	104			
100	104	100		
49.0	78		39.4	59.2
55.7	103		44.9	67.3





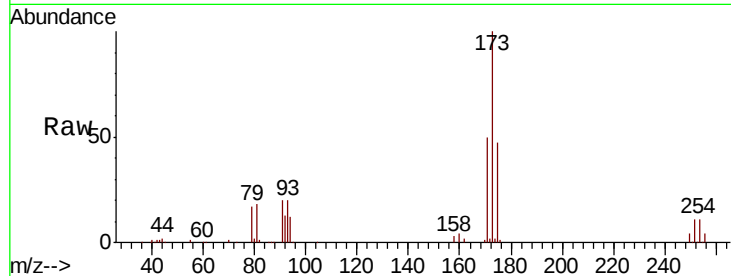
#71
Bromoform
Concen: 22.062 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN052668.D
Acq: 5 Dec 2018 11:33

Instrument :
MSVOA_N
ClientSampleId :
VN1205WBSD01

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.3	24.4	73.2
254	0.1	0.1	0.1#

Manual Integrations
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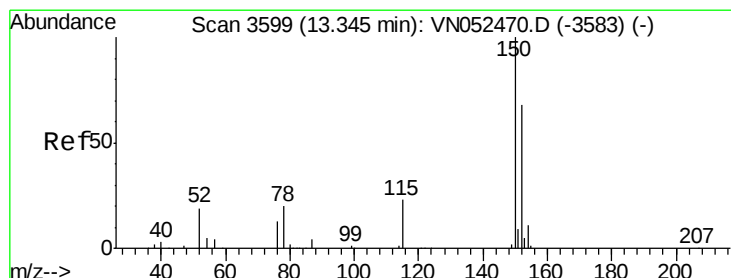
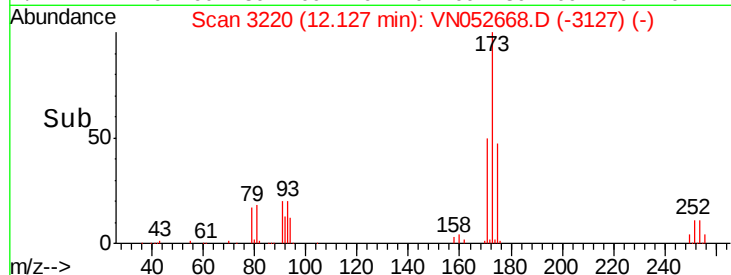
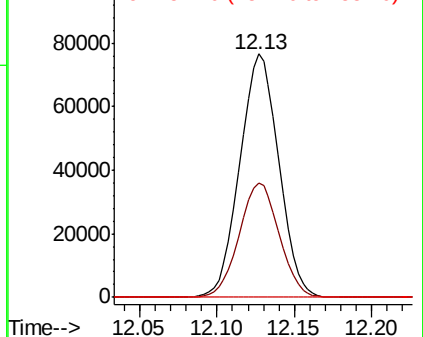


Abundance

Ion 172.70 (172.40 to 173.40): V

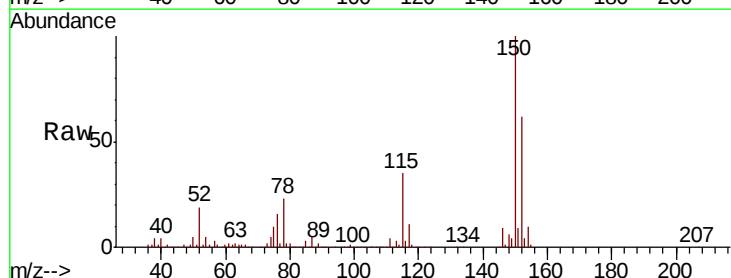
Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN052668.D
Acq: 5 Dec 2018 11:33

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.3	28.4	85.2
150	164.8	0.0	346.0

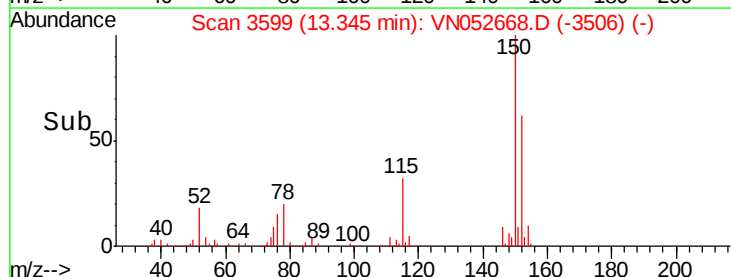
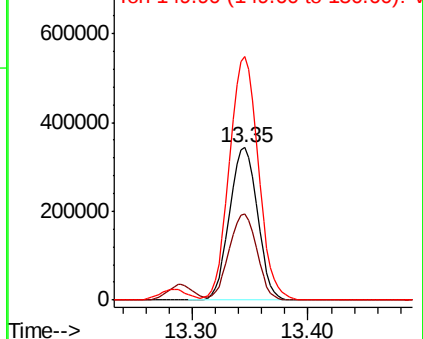


Abundance

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: 20.703 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN052668.D

Acq: 5 Dec 2018 11:33

Instrument :

MSVOA_N

ClientSampleId :

VN1205WBSD01

Tot Ion: 105 Resp: 927186

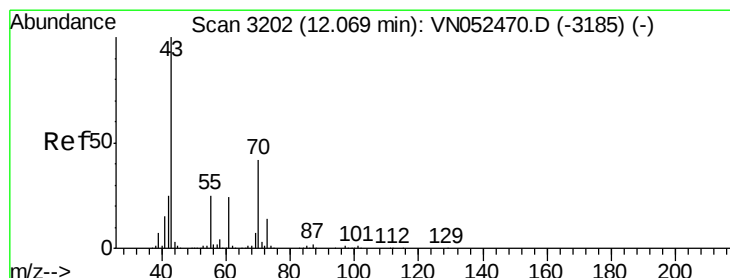
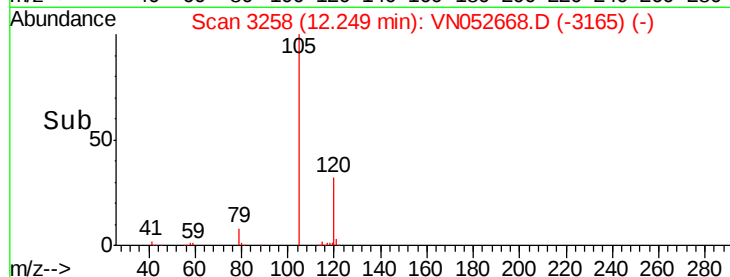
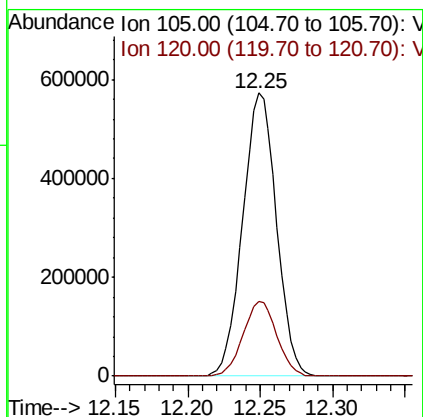
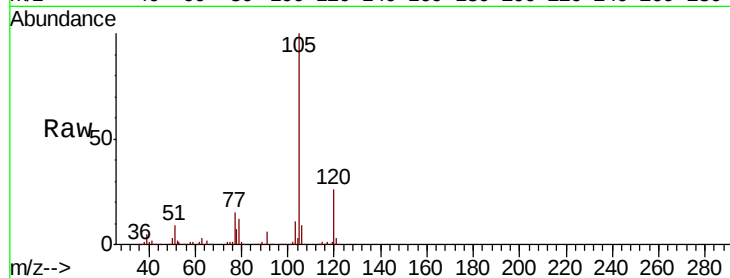
Ion Ratio Lower Upper

105 100

120 26.4 13.1 39.3

Manual Integrations
APPROVED

MMDadoda
12/6/2018 9:09:01 AM



#74

N-ethyl acetate

Concen: 21.374 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN052668.D

Acq: 5 Dec 2018 11:33

Tgt Ion: 43 Resp: 241834

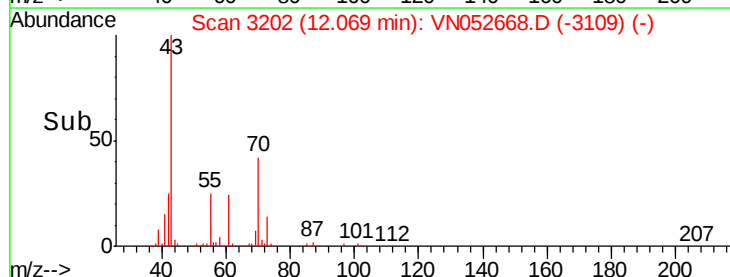
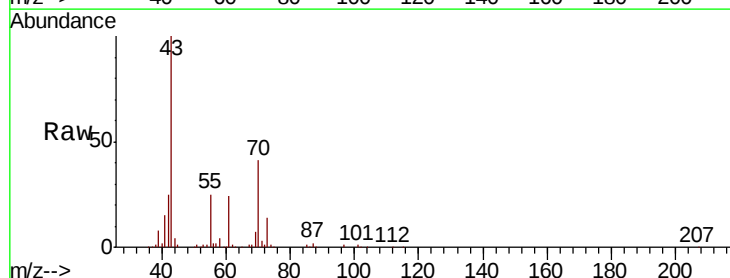
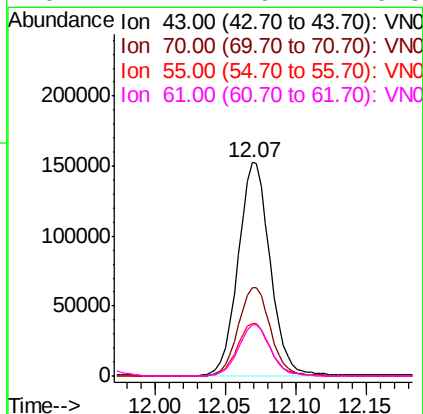
Ion Ratio Lower Upper

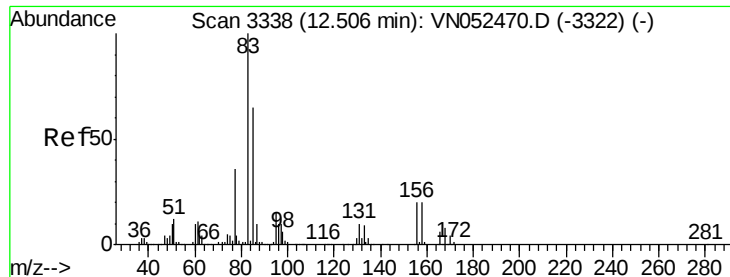
43 100

70 42.2 33.8 50.8

55 25.7 20.0 30.0

61 24.2 19.7 29.5





#75

1,1,2,2-Tetrachloroethane

Concen: 21.512 ug/l

RT: 12.51 min Scan# 3338

Delta R.T. 0.00 min

Lab File: VN052668.D

Acq: 5 Dec 2018 11:33

Instrument :

MSVOA_N

ClientSampleId :

VN1205WBSD01

Tot Ion: 83 Resp: 219156
Ion Ratio Lower Upper

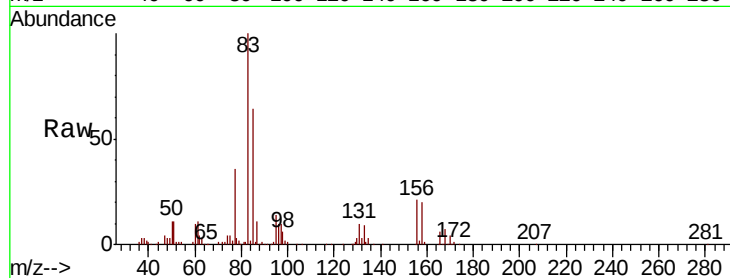
83 100

131 10.1 5.0 15.0

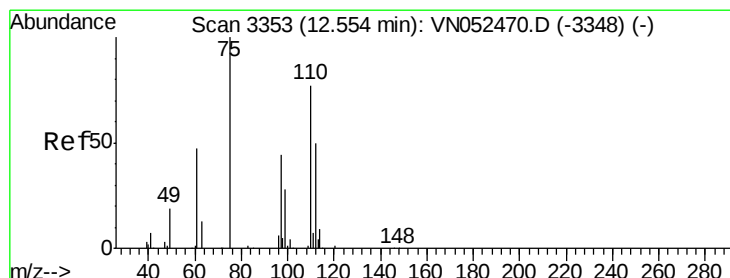
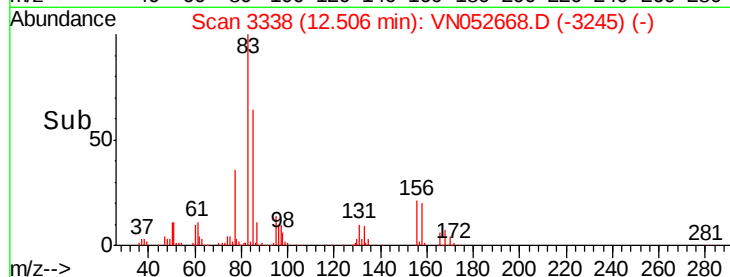
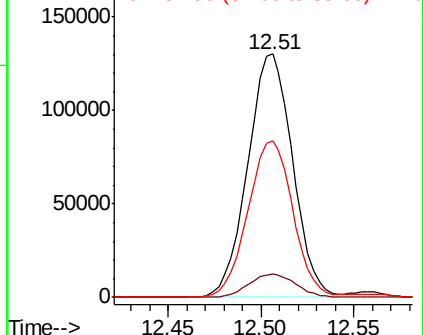
85 64.5 31.9 95.9

Manual Integrations
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Abundance Ion 82.90 (82.60 to 83.60): VNO
Ion 130.80 (130.50 to 131.50): VNO
Ion 84.90 (84.60 to 85.60): VNO



#76

1,2,3-Trichloropropane

Concen: 20.921 ug/l m

RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

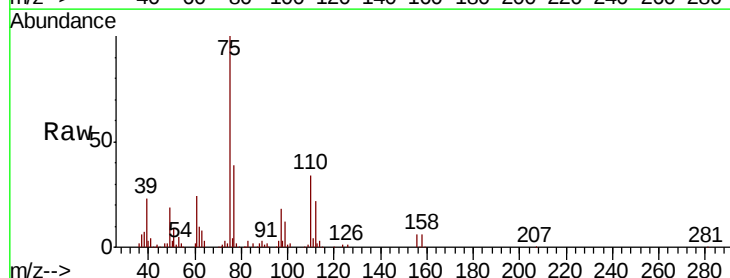
Lab File: VN052668.D

Acq: 5 Dec 2018 11:33

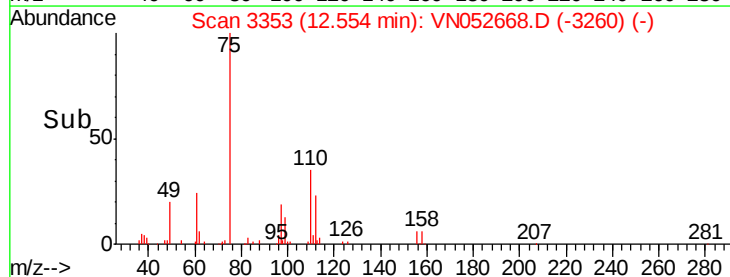
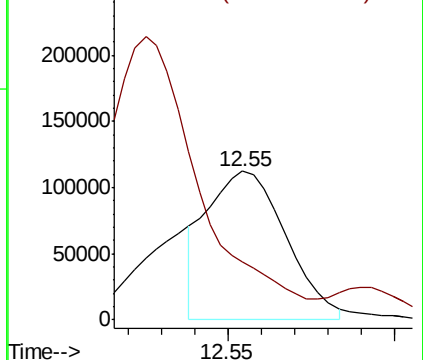
Tgt Ion: 75 Resp: 184161
Ion Ratio Lower Upper

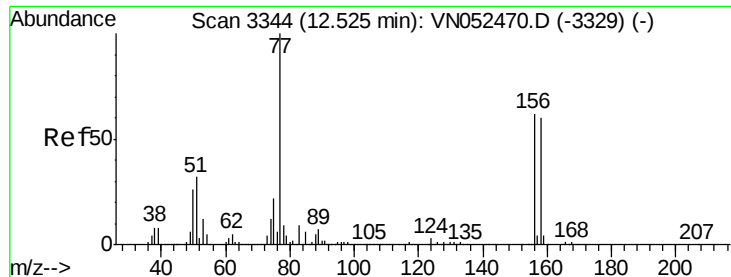
75 100

77 0.0 0.0 0.0



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





#77

Bromobenzene

Concen: 20.886 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN052668.D

Acq: 5 Dec 2018 11:33

Instrument :

MSVOA_N

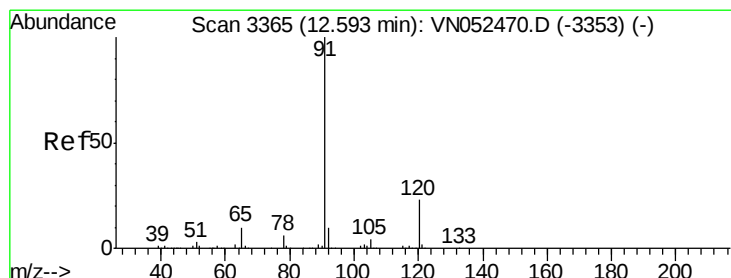
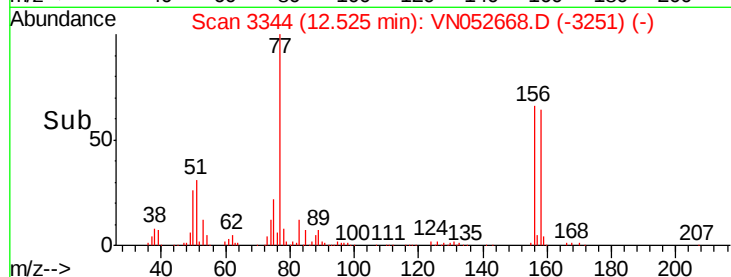
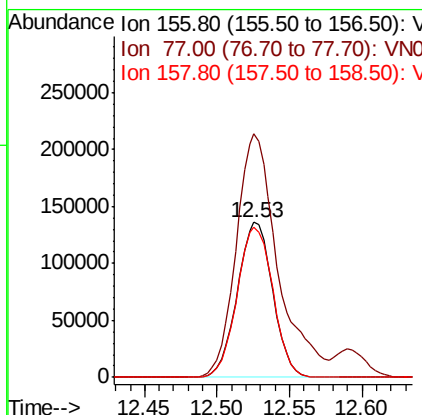
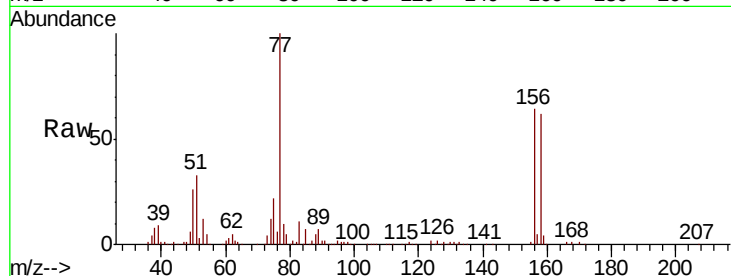
ClientSampleId :

VN1205WBSD01

Tot Ion:	156	Resp:	231197
Ion Ratio	Lower	Upper	
156	100		
77	185.0	93.5	280.4
158	98.2	48.3	144.9

Manual Integrations
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#78

n-propylbenzene

Concen: 20.550 ug/l

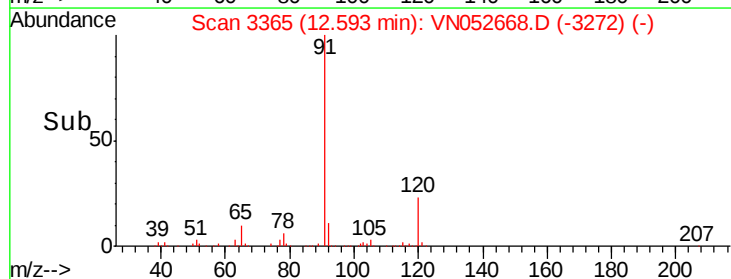
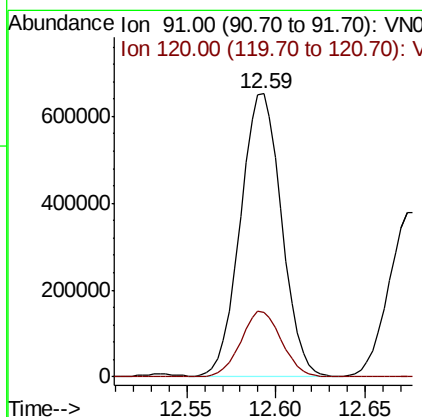
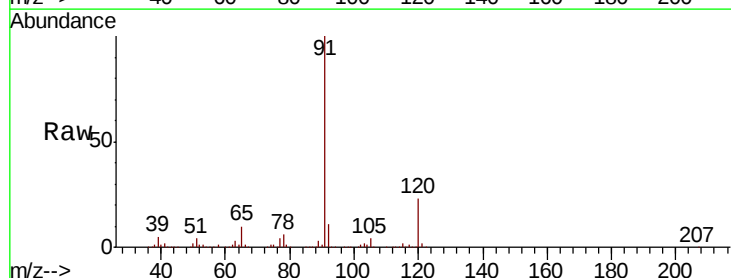
RT: 12.59 min Scan# 3365

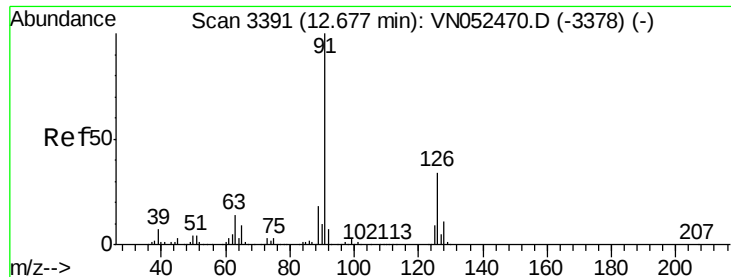
Delta R.T. 0.00 min

Lab File: VN052668.D

Acq: 5 Dec 2018 11:33

Tgt Ion:	91	Resp:	1045526
Ion Ratio	Lower	Upper	
91	100		
120	23.0	11.3	33.9





#79

2-Chlorotoluene

Concen: 20.573 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN052668.D

Acq: 5 Dec 2018 11:33

Instrument :

MSVOA_N

ClientSampleId :

VN1205WBSD01

Tot Ion: 91 Resp: 623321

Ion Ratio Lower Upper

91 100

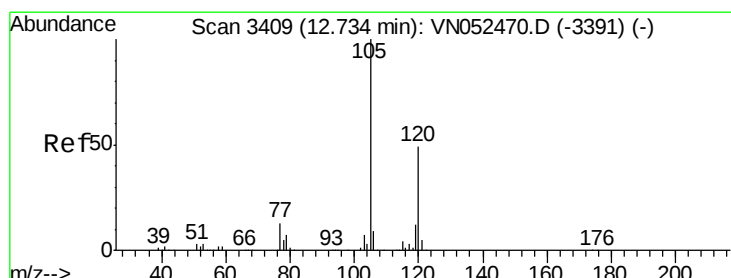
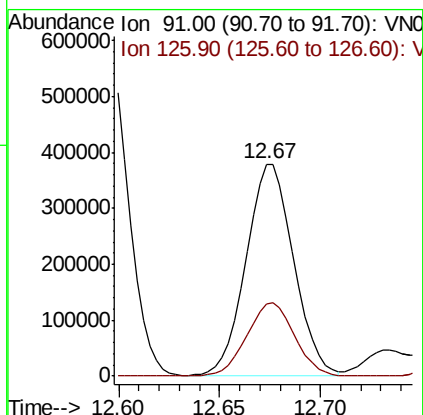
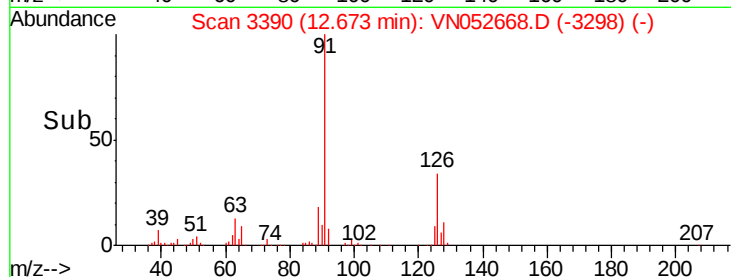
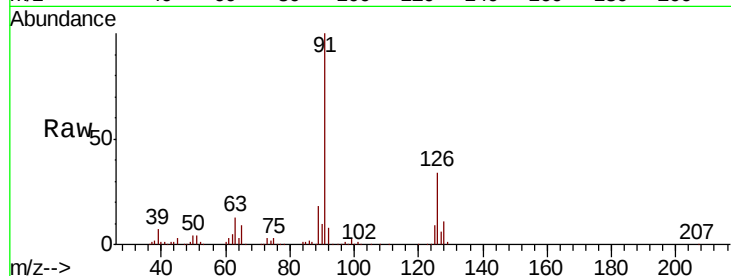
126 34.9 17.2 51.6

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 21.118 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN052668.D

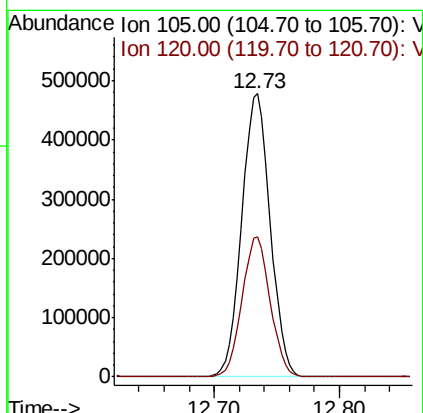
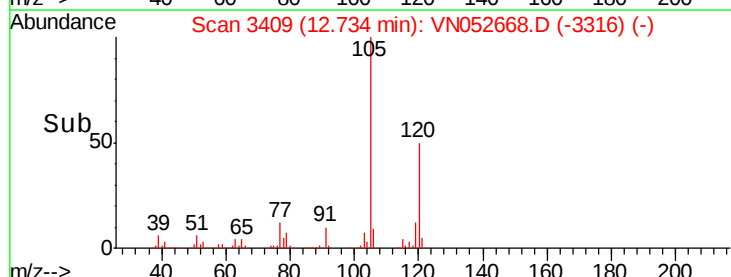
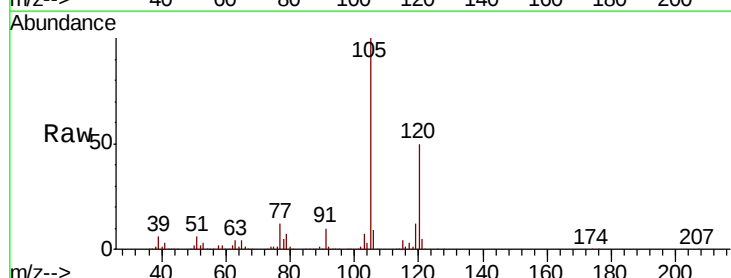
Acq: 5 Dec 2018 11:33

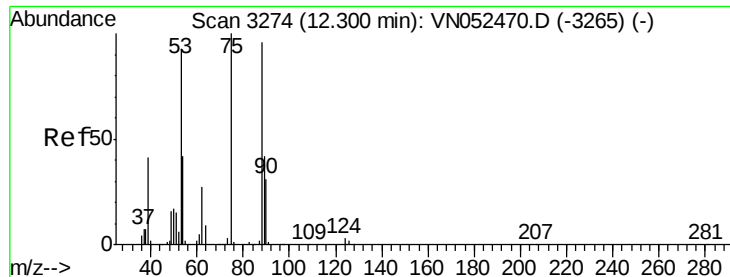
Tgt Ion: 105 Resp: 754291

Ion Ratio Lower Upper

105 100

120 49.0 24.3 73.0





#81

trans-1,4-Dichloro-2-butene

Concen: 21.363 ug/l

RT: 12.30 min Scan# 3275

Delta R.T. 0.00 min

Lab File: VN052668.D

Acq: 5 Dec 2018 11:33

Instrument :

MSVOA_N

ClientSampleId :

VN1205WBSD01

Tot Ion: 75 Resp: 56309

Ion Ratio Lower Upper

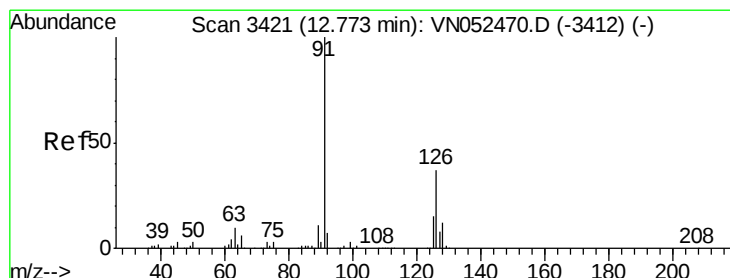
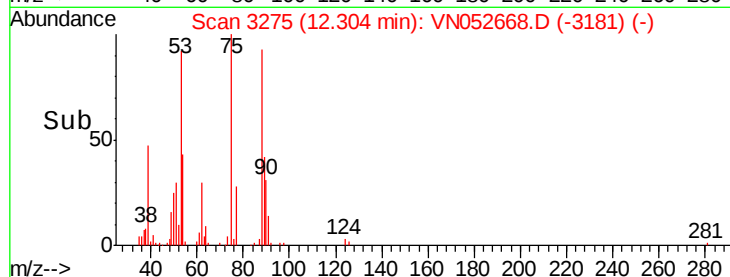
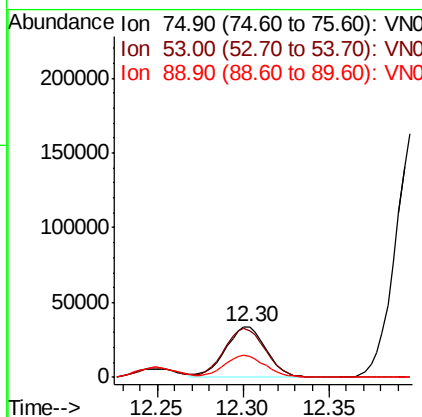
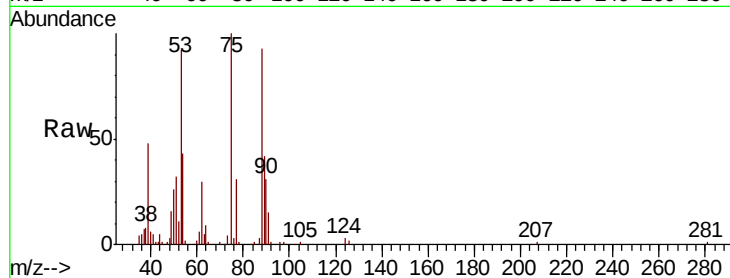
75 100

53 98.1 77.4 116.0

89 43.3 35.4 53.2

Manual Integrations
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#82

4-Chlorotoluene

Concen: 20.287 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. 0.00 min

Lab File: VN052668.D

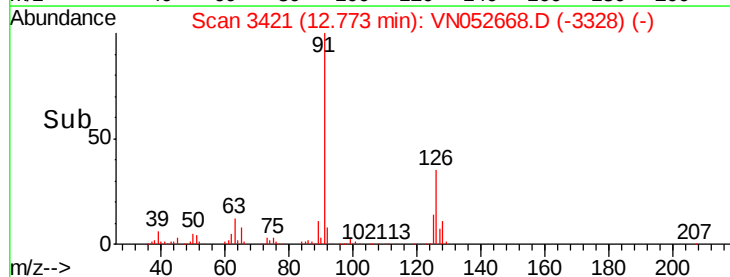
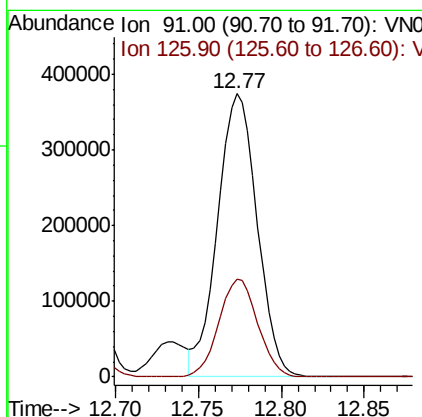
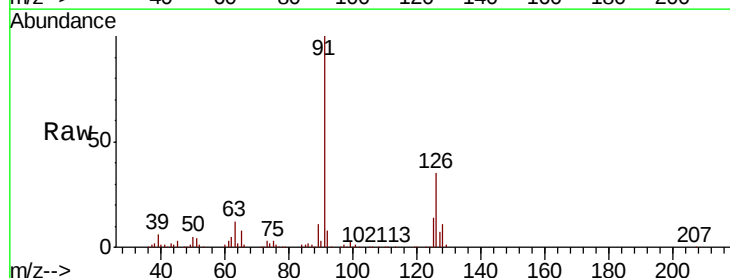
Acq: 5 Dec 2018 11:33

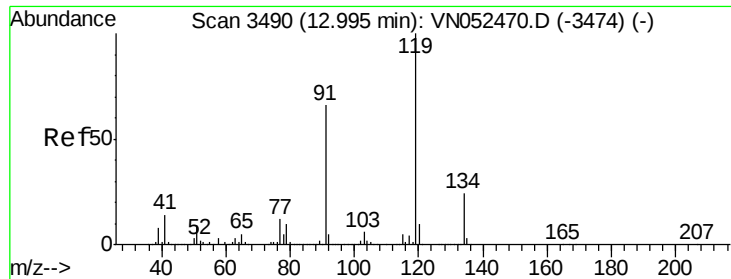
Tgt Ion: 91 Resp: 619470

Ion Ratio Lower Upper

91 100

126 34.0 16.9 50.6





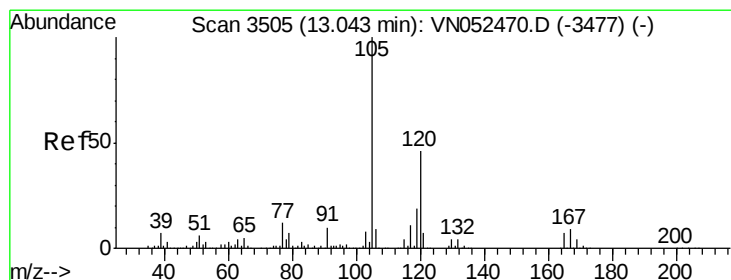
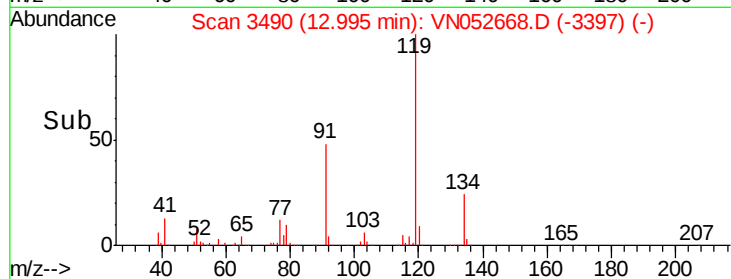
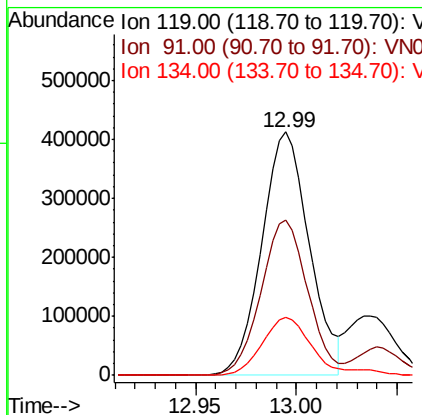
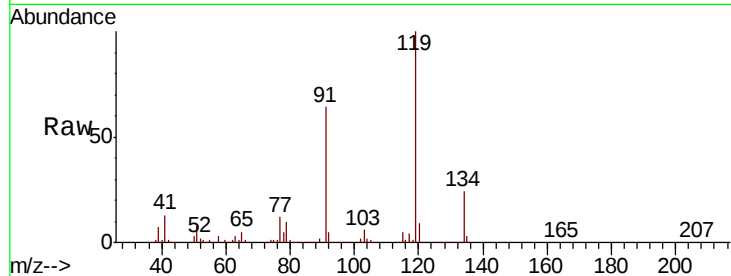
#83
tert-Butylbenzene
Concen: 21.271 ug/l
RT: 12.99 min Scan# 3490
Delta R.T. 0.00 min
Lab File: VN052668.D
Acq: 5 Dec 2018 11:33

Instrument :
MSVOA_N
ClientSampleId :
VN1205WBSD01

Tot Ion	Ratio	Lower	Upper
119	100		
91	63.0	32.3	96.9
134	25.8	13.0	38.9

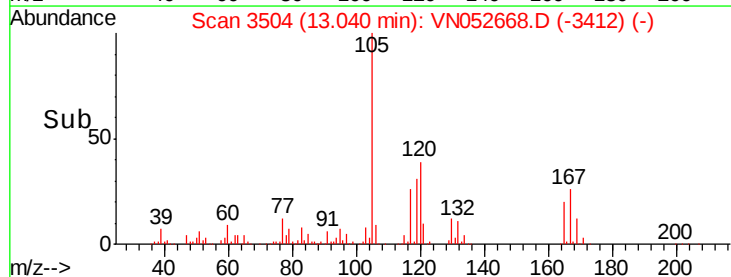
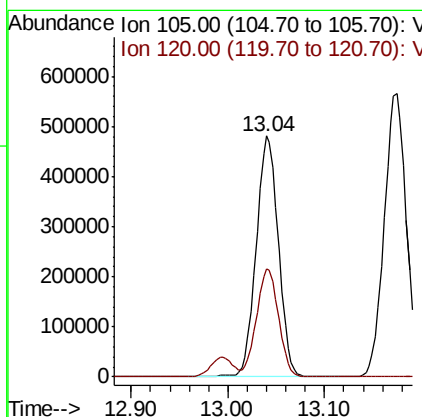
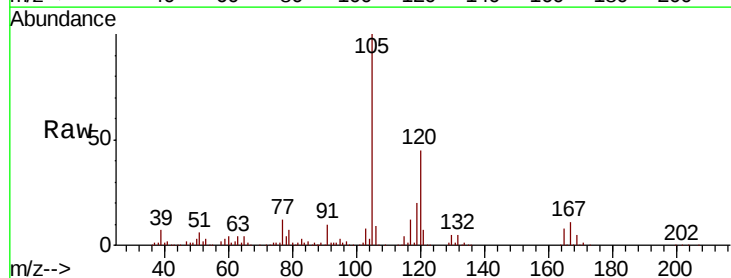
Manual Integrations
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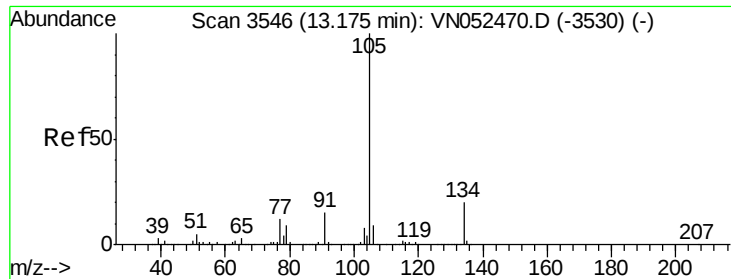
MMDadoda
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#84
1,2,4-Trimethylbenzene
Concen: 21.380 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. -0.00 min
Lab File: VN052668.D
Acq: 5 Dec 2018 11:33

Tgt Ion	Ratio	Lower	Upper
105	100		
120	44.6	22.8	68.4





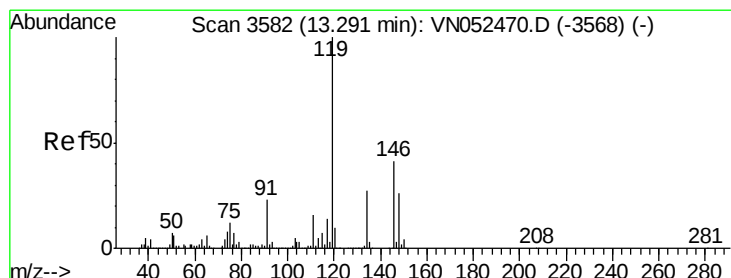
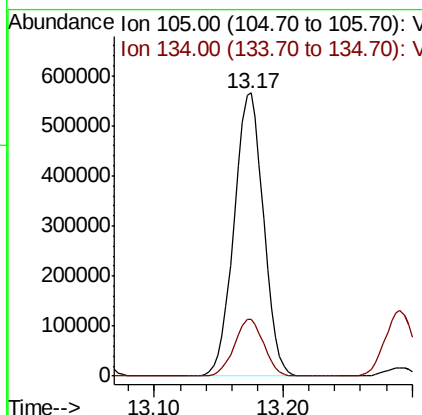
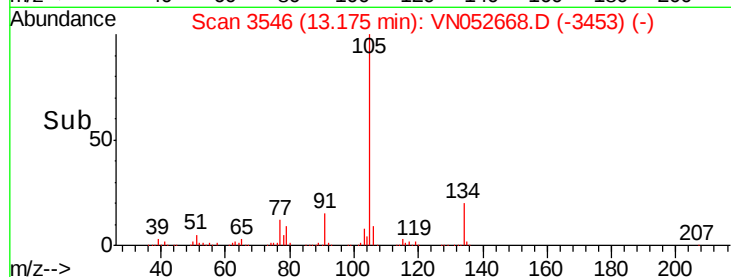
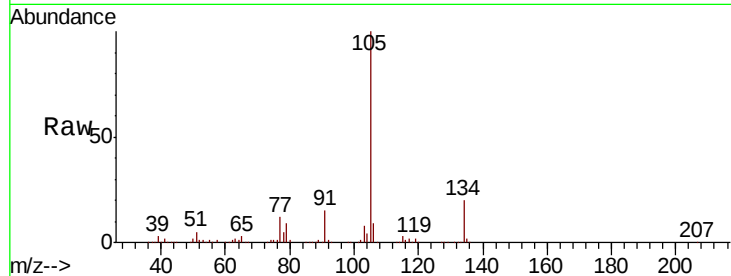
#85
 sec-Butylbenzene
 Concen: 20.636 ug/l
 RT: 13.17 min Scan# 3546
 Delta R.T. 0.00 min
 Lab File: VN052668.D
 Acq: 5 Dec 2018 11:33

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1205WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
105	100	895015		
134	20.1	9.9	29.7	

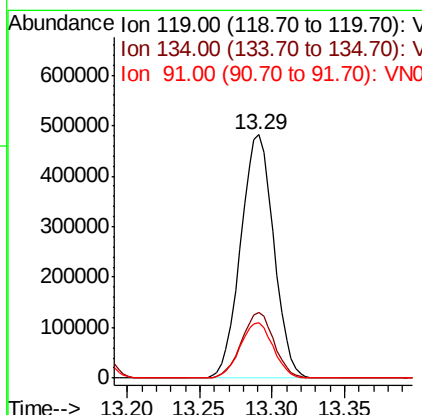
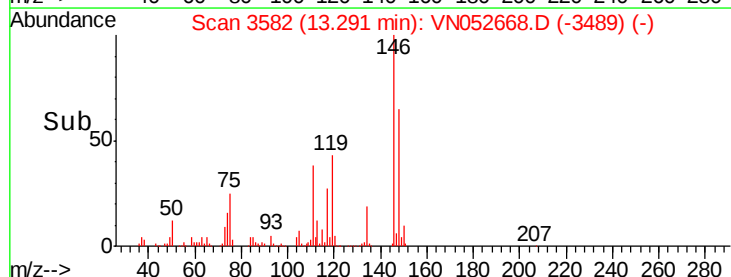
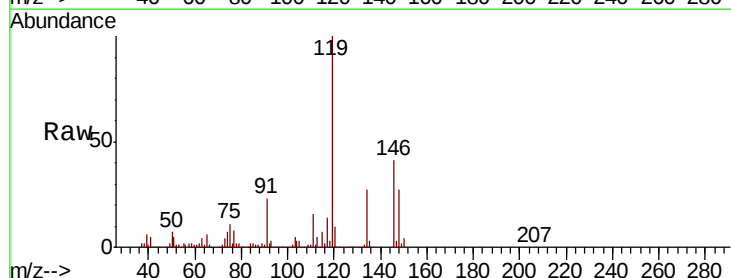
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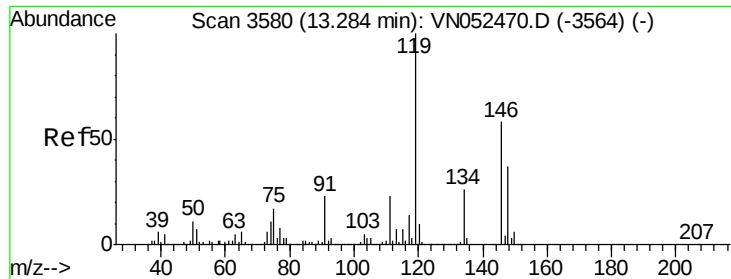
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#86
 p-Isopropyltoluene
 Concen: 20.618 ug/l
 RT: 13.29 min Scan# 3582
 Delta R.T. 0.00 min
 Lab File: VN052668.D
 Acq: 5 Dec 2018 11:33

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	761628		
134	26.7	13.4	40.2	
91	22.9	11.4	34.2	





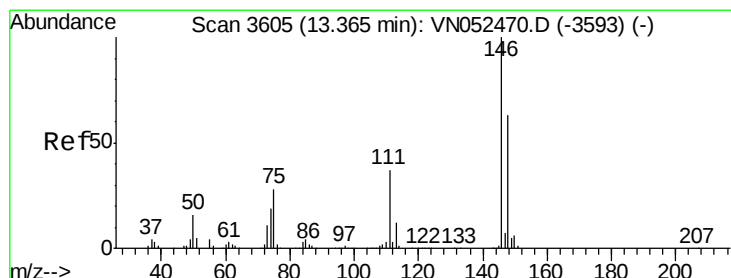
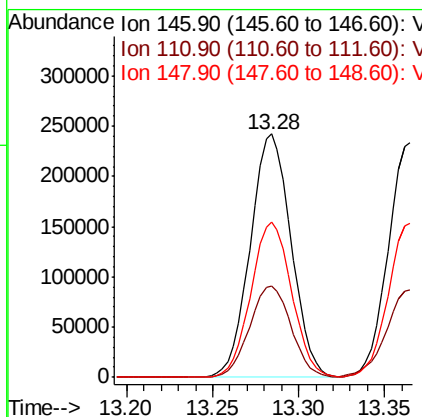
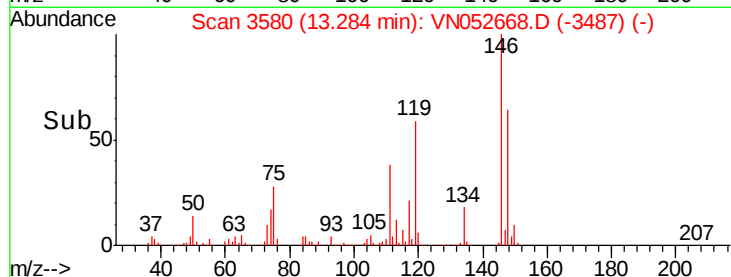
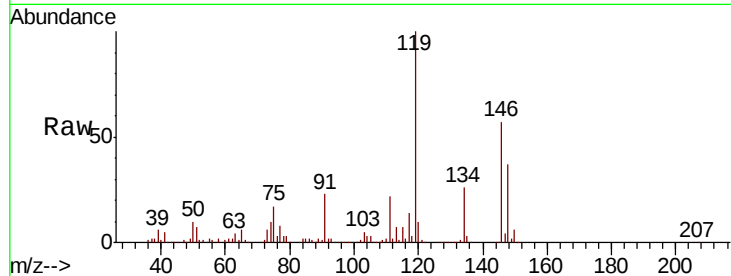
#87
 1,3-Dichlorobenzene
 Concen: 20.593 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN052668.D
 Acq: 5 Dec 2018 11:33

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1205WBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.1	19.4	58.4
148	63.9	31.8	95.4

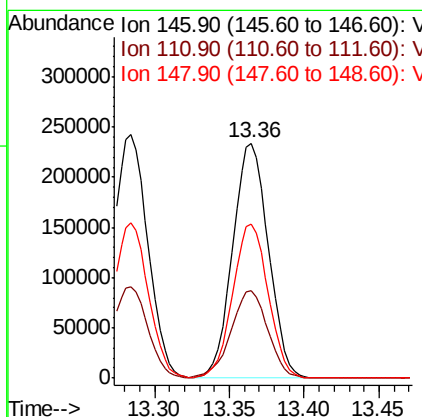
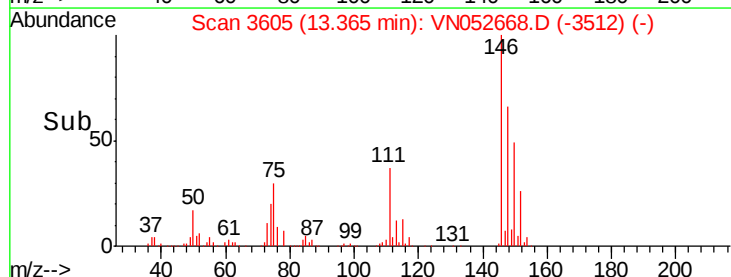
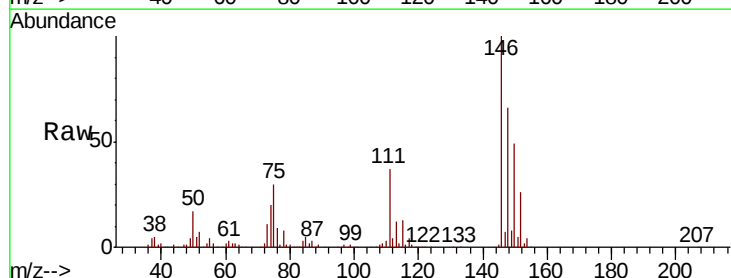
Manual Integrations
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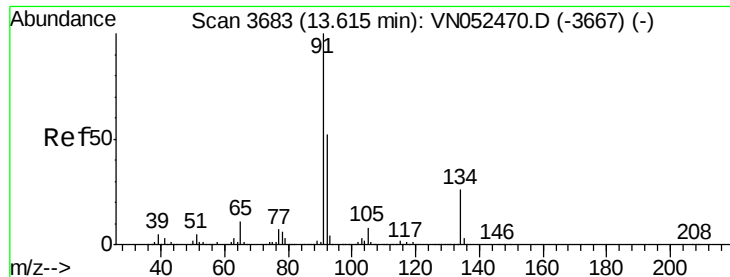
MMDadoda
 12/6/2018 9:09:01 AM



#88
 1,4-Dichlorobenzene
 Concen: 20.407 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN052668.D
 Acq: 5 Dec 2018 11:33

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.4	18.6	56.0
148	65.0	31.9	95.9





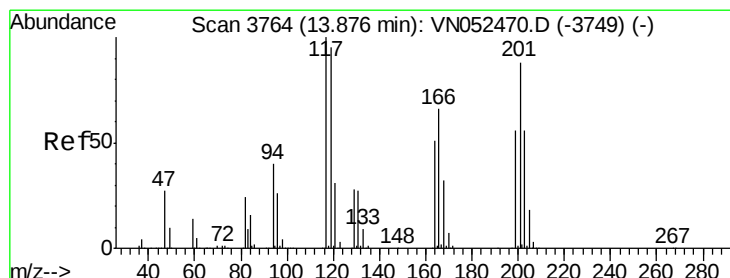
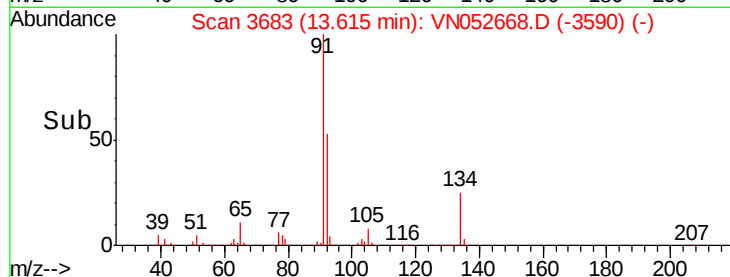
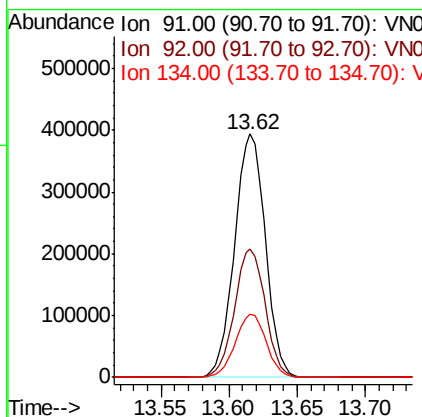
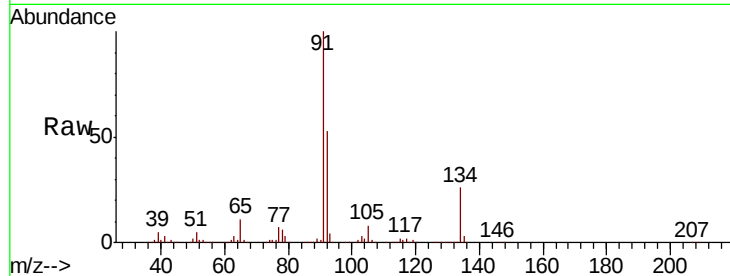
#89
n-Butylbenzene
Concen: 20.090 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN052668.D
Acq: 5 Dec 2018 11:33

Instrument :
MSVOA_N
ClientSampleId :
VN1205WBSD01

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.3	26.1	78.3
134	26.1	13.0	38.9

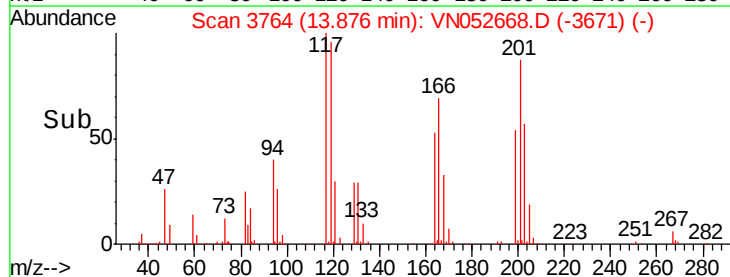
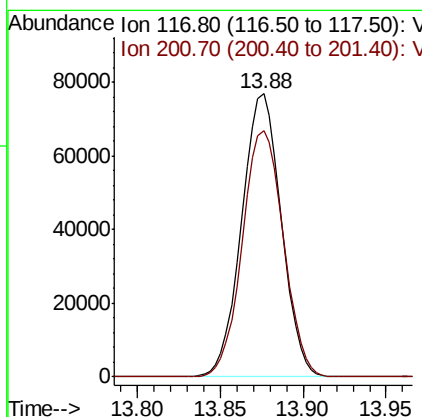
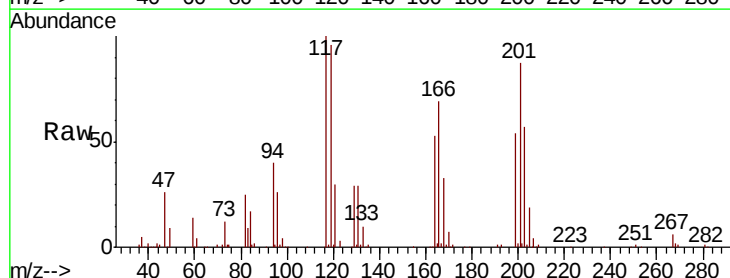
Manual Integrations
APPROVED

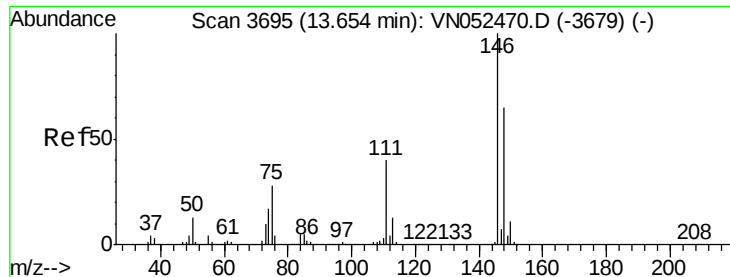
MMDadoda
12/6/2018 9:09:01 AM



#90
Hexachloroethane
Concen: 20.412 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. 0.00 min
Lab File: VN052668.D
Acq: 5 Dec 2018 11:33

Tgt Ion	Ratio	Lower	Upper
117	100		
201	90.3	43.6	130.9





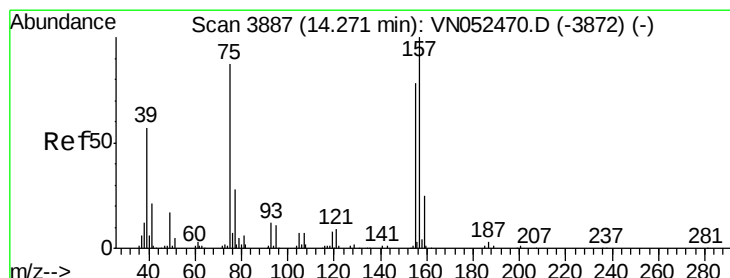
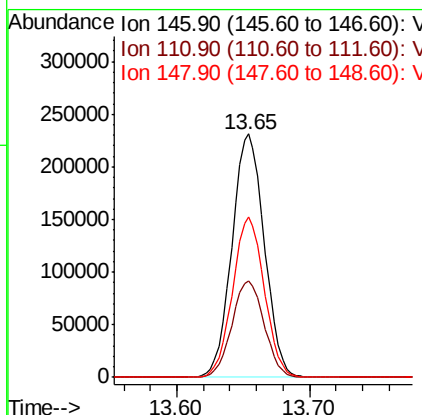
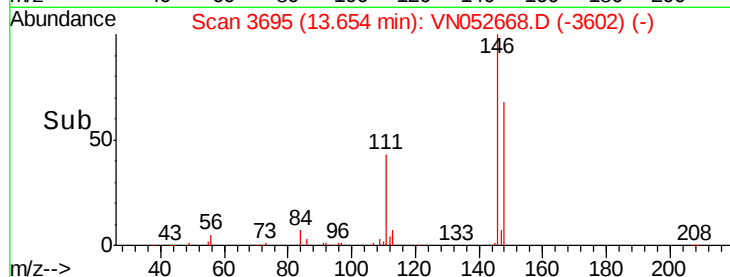
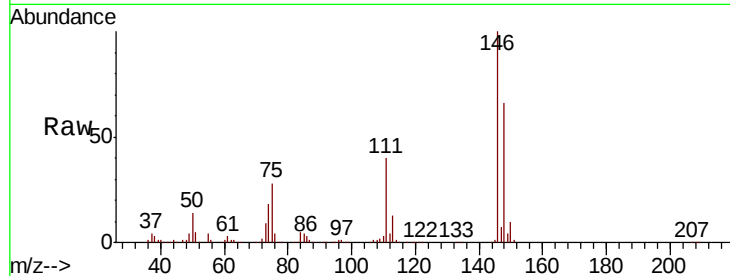
#91
 1,2-Dichlorobenzene
 Concen: 21.097 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN052668.D
 Acq: 5 Dec 2018 11:33

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1205WBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.7	20.0	60.0
148	64.6	32.0	96.2

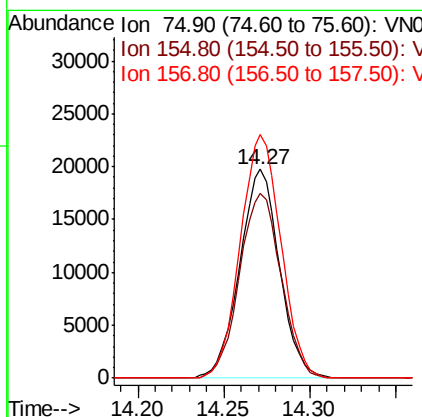
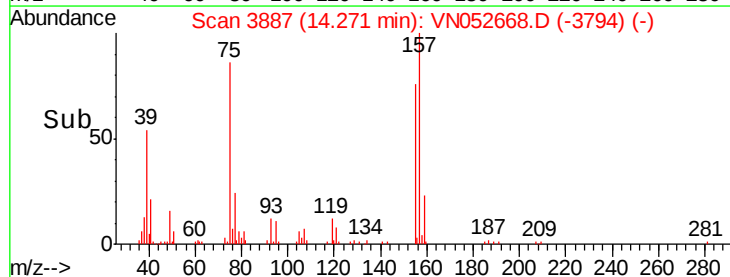
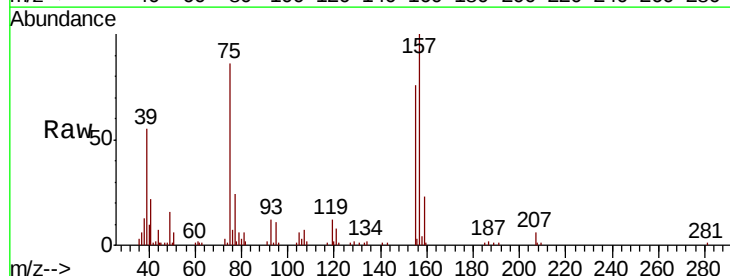
Manual Integrations
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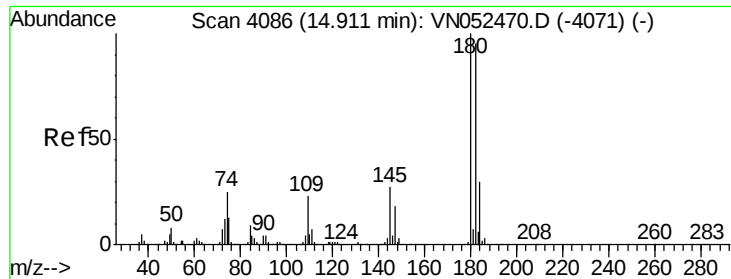
MMDadoda
 12/6/2018 9:09:01 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 21.824 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. 0.00 min
 Lab File: VN052668.D
 Acq: 5 Dec 2018 11:33

Tgt Ion	Ratio	Lower	Upper
75	100		
155	92.4	45.3	135.9
157	118.6	58.1	174.2





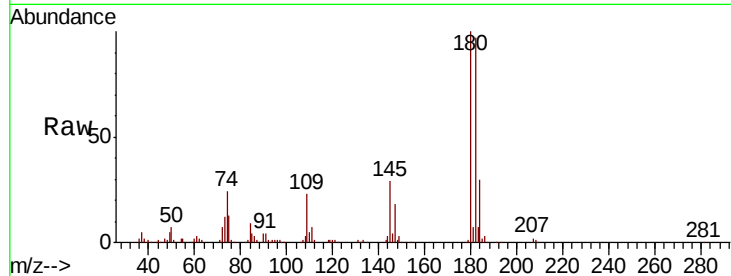
#93
 1,2,4-Trichlorobenzene
 Concen: 20.148 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN052668.D
 Acq: 5 Dec 2018 11:33

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1205WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	186038		
182	96.6	47.8	143.4	
145	28.5	14.1	42.3	

Manual Integrations
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MMDadoda
 12/6/2018 9:09:01 AM

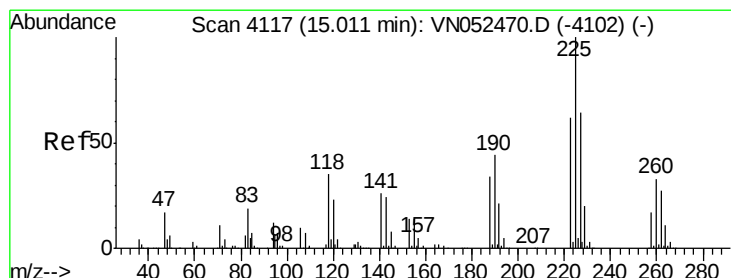
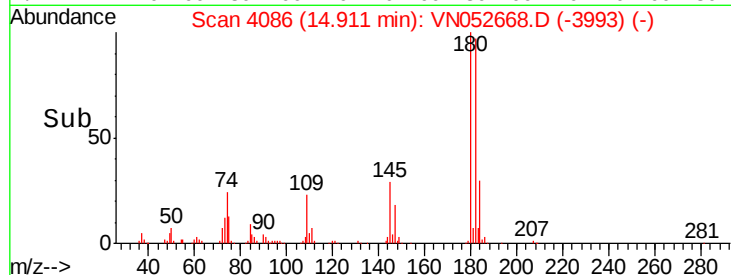
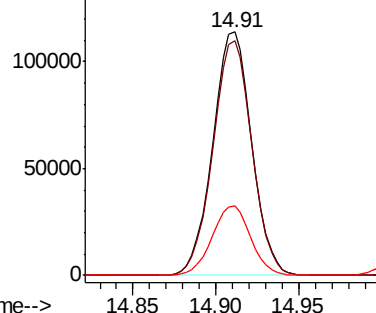


Abundance

Ion 179.80 (179.50 to 180.50): V

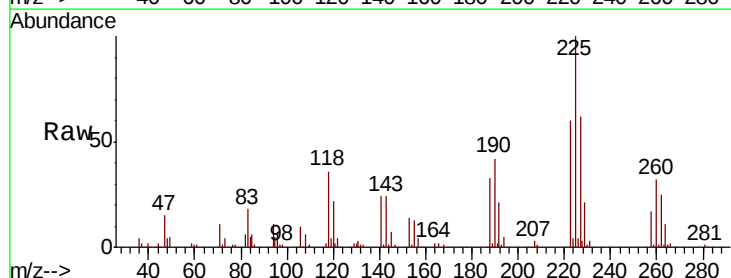
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94
 Hexachlorobutadiene
 Concen: 21.083 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN052668.D
 Acq: 5 Dec 2018 11:33

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	125471		
223	61.9	31.4	94.2	
227	62.3	32.5	97.4	

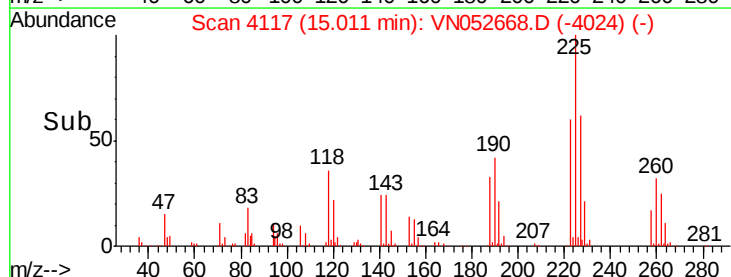
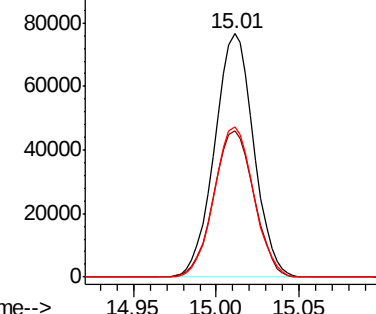


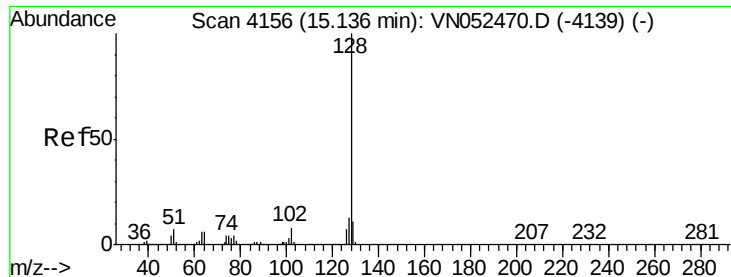
Abundance

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: 20.535 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN052668.D

Acq: 5 Dec 2018 11:33

Instrument :

MSVOA_N

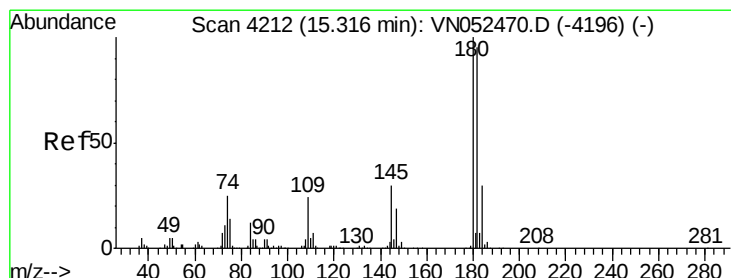
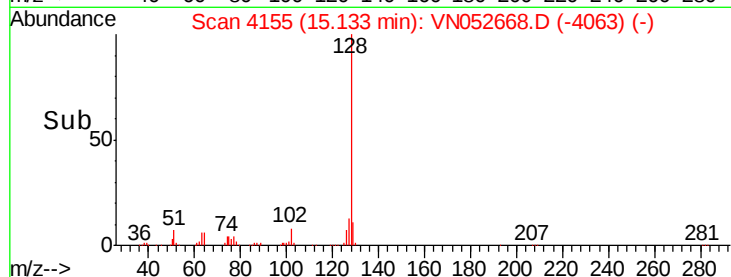
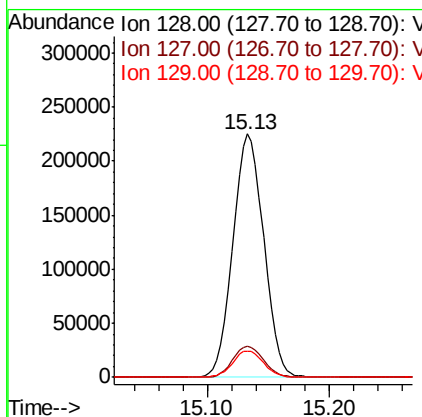
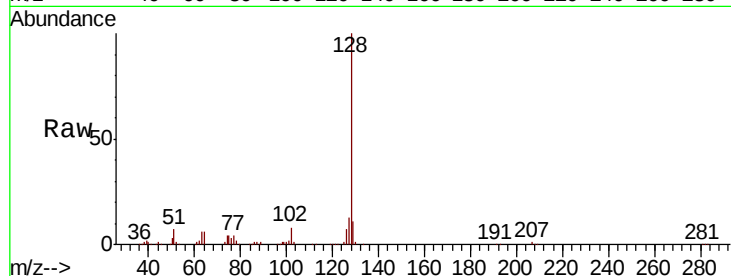
ClientSampleId :

VN1205WBSD01

Tot Ion:	128	Resp:	394715
Ion Ratio	Lower	Upper	
128	100		
127	12.8	10.2	15.2
129	10.8	8.7	13.1

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#96

1,2,3-Trichlorobenzene

Concen: 21.128 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN052668.D

Acq: 5 Dec 2018 11:33

Tgt Ion:	180	Resp:	181350
Ion Ratio	Lower	Upper	
180	100		
182	96.0	47.8	143.3
145	29.5	15.2	45.5

