

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080118\
 Data File : VN050238.D
 Acq On : 1 Aug 2018 10:35
 Operator : MD\SY
 Sample : VN0801WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0801WBSD01

Manual Integrations
 APPROVED

MMDadoda
 8/2/2018 9:53:45 AM

Quant Time: Aug 02 01:19:19 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072418W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 26 18:10:10 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	549699	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	858579	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	784739	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	394862	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	416225	54.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.54%	
35) Dibromofluoromethane	7.59	113	360311	51.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.80%	
50) Toluene-d8	10.09	98	1278589	49.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.22%	
62) 4-Bromofluorobenzene	12.40	95	421971	49.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.46%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	144261	18.265	ug/l	99
3) Chloromethane	2.06	50	151283	17.621	ug/l	98
4) Vinyl Chloride	2.18	62	157288	17.397	ug/l	100
5) Bromomethane	2.56	94	67413	12.678	ug/l	100
6) Chloroethane	2.70	64	94650	17.432	ug/l	98
7) Trichlorofluoromethane	3.01	101	210078	17.936	ug/l	99
8) Diethyl Ether	3.41	74	85217	21.825	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	3.75	101	131284	18.640	ug/l	99
10) Methyl Iodide	3.95	142	79218	8.763	ug/l	99
11) Tert butyl alcohol	4.80	59	66433	117.723	ug/l	100
12) 1,1-Dichloroethene	3.73	96	113798	17.962	ug/l	98
13) Acrolein	3.61	56	29374	64.786	ug/l	96
14) Allyl chloride	4.32	41	193997	19.747	ug/l	97
15) Acrylonitrile	5.00	53	275721	111.989	ug/l	99
16) Acetone	3.82	43	222219	120.762	ug/l	99
17) Carbon Disulfide	4.05	76	316889	16.327	ug/l	99
18) Methyl Acetate	4.33	43	198882	27.573	ug/l	99
19) Methyl tert-butyl Ether	5.05	73	378207	22.400	ug/l	100
20) Methylene Chloride	4.55	84	153084	21.805	ug/l	99
21) trans-1,2-Dichloroethene	5.04	96	127471	18.988	ug/l	96
22) Diisopropyl ether	5.96	45	438007	22.486	ug/l	98
23) Vinyl Acetate	5.90	43	1470783	106.844	ug/l	99
24) 1,1-Dichloroethane	5.85	63	258977	20.332	ug/l	99
25) 2-Butanone	6.84	43	333870	114.129	ug/l	99
26) 2,2-Dichloropropane	6.83	77	194105	20.031	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	151596	20.977	ug/l	99
28) Bromochloromethane	7.20	49	131029	22.553	ug/l	100
29) Tetrahydrofuran	7.22	42	218956	115.828	ug/l	99
30) Chloroform	7.37	83	269526	20.735	ug/l	97
31) Cyclohexane	7.66	56	191238	18.060	ug/l	95
32) 1,1,1-Trichloroethane	7.57	97	214702	19.310	ug/l	99
36) 1,1-Dichloropropene	7.80	75	173986	17.987	ug/l	99
37) Ethyl Acetate	6.93	43	141215	20.939	ug/l	98
38) Carbon Tetrachloride	7.78	117	183312	17.860	ug/l	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	169442	17.028	ug/l	99
40) Benzene	8.04	78	573295	19.477	ug/l	99
41) Methacrylonitrile	7.18	41	59763	18.827	ug/l	100
42) 1,2-Dichloroethane	8.13	62	199972	20.364	ug/l	99
43) Isopropyl Acetate	8.17	43	283847	21.689	ug/l	96
44) Trichloroethene	8.84	130	145921	18.449	ug/l	99
45) 1,2-Dichloropropane	9.12	63	159047	20.400	ug/l	98
46) Dibromomethane	9.21	93	99738	20.603	ug/l	97
47) Bromodichloromethane	9.41	83	206505	20.211	ug/l	96
48) Methyl methacrylate	9.20	41	125315	21.575	ug/l	99
49) 1,4-Dioxane	9.20	88	36536	462.225	ug/l	99
51) 4-Methyl-2-Pentanone	9.99	43	744888	112.354	ug/l	99
52) Toluene	10.16	92	349532	20.117	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	200738	20.821	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	226779	20.581	ug/l	98
55) 1,1,2-Trichloroethane	10.56	97	145960	21.179	ug/l	97
56) Ethyl methacrylate	10.43	69	177582	20.280	ug/l	98
57) 1,3-Dichloropropane	10.71	76	239904	21.377	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.70	63	377876	92.208	ug/l	100
59) 2-Hexanone	10.75	43	490498	103.774	ug/l	100
60) Dibromochloromethane	10.90	129	160921	21.090	ug/l	99
61) 1,2-Dibromoethane	11.01	107	139928	20.464	ug/l	98
64) Tetrachloroethene	10.63	164	137504	18.225	ug/l	96
65) Chlorobenzene	11.44	112	385067	19.426	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	153863	20.202	ug/l	99
67) Ethyl Benzene	11.51	91	607372	19.075	ug/l	100
68) m/p-Xylenes	11.63	106	478393	39.720	ug/l	99
69) o-Xylene	11.95	106	225732	19.661	ug/l	97
70) Styrene	11.97	104	375257	18.961	ug/l	98
71) Bromoform	12.13	173	113774	20.535	ug/l #	100
73) Isopropylbenzene	12.25	105	597089	19.498	ug/l	99
74) N-amyl acetate	12.07	43	188504	20.140	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.51	83	187993	21.993	ug/l	100
76) 1,2,3-Trichloropropane	12.56	75	160851m	21.920	ug/l	
77) Bromobenzene	12.53	156	167347	19.717	ug/l	99
78) n-propylbenzene	12.59	91	670606	19.592	ug/l	100
79) 2-Chlorotoluene	12.68	91	422636	19.921	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	494079	20.511	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	47796	20.659	ug/l	98
82) 4-Chlorotoluene	12.78	91	416380	19.819	ug/l	99
83) tert-Butylbenzene	12.99	119	415416	19.762	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	505499	20.820	ug/l	98
85) sec-Butylbenzene	13.17	105	552884	19.684	ug/l	100
86) p-Isopropyltoluene	13.29	119	467140	19.738	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	274827	19.101	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	268449	19.142	ug/l	97
89) n-Butylbenzene	13.62	91	349138	17.939	ug/l	100
90) Hexachloroethane	13.88	117	94355	17.954	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	281795	19.592	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	28414	20.343	ug/l	98

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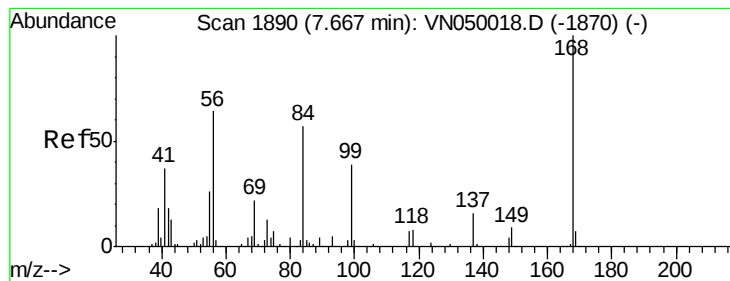
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	111216	16.767	ug/l	96
94) Hexachlorobutadiene	15.01	225	79305	18.011	ug/l	98
95) Naphthalene	15.14	128	248032	16.955	ug/l	99
96) 1,2,3-Trichlorobenzene	15.32	180	122581	17.977	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.00 min

Lab File: VN050238.D

Acq: 1 Aug 2018 10:35

Instrument :

MSVOA_N

ClientSampleID :

VN0801WBSD01

Tot Ion:168 Resp: 549699

Ion Ratio Lower Upper

168 100

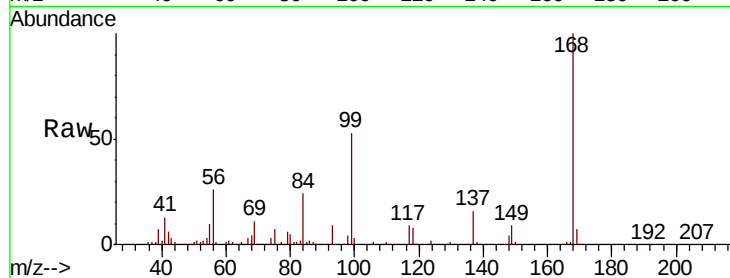
99 52.5 40.0 60.0

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

250000

200000

150000

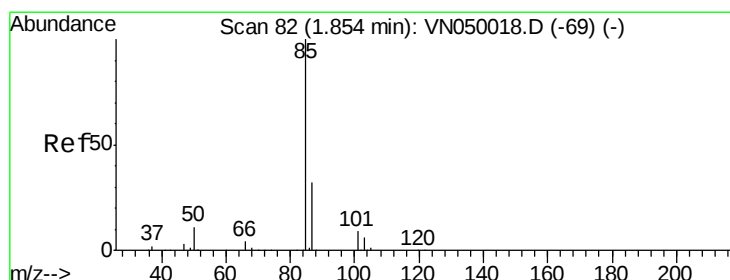
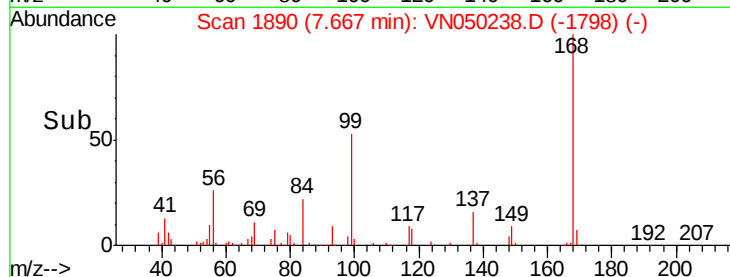
100000

50000

0

7.55 7.60 7.65 7.70 7.75

Time-->



#2

Dichlorodifluoromethane

Concen: 18.265 ug/l

RT: 1.85 min Scan# 81

Delta R.T. -0.00 min

Lab File: VN050238.D

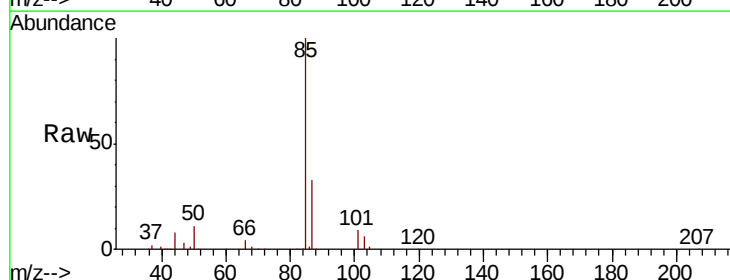
Acq: 1 Aug 2018 10:35

Tgt Ion: 85 Resp: 144261

Ion Ratio Lower Upper

85 100

87 32.5 16.1 48.3



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

100000

80000

60000

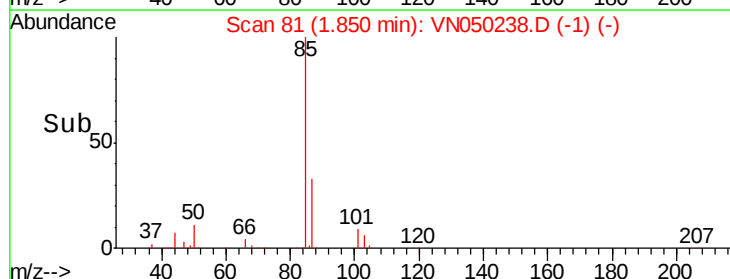
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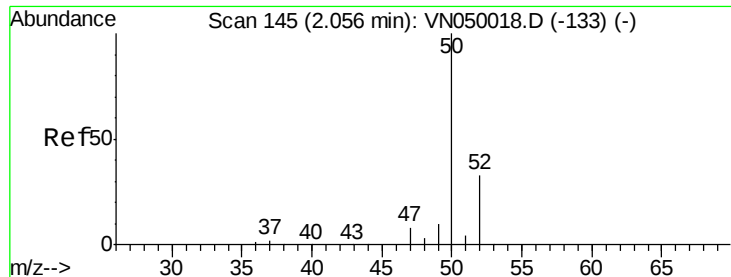
20000

0

1.80 1.85 1.90 1.95

Time-->





#3

Chloromethane

Concen: 17.621 ug/l

RT: 2.06 min Scan# 145

Delta R.T. 0.00 min

Lab File: VN050238.D

Acq: 1 Aug 2018 10:35

Instrument :

MSVOA_N

ClientSampleId :

VN0801WBSD01

Tot Ion: 50 Resp: 151283

Ion Ratio Lower Upper

50 100

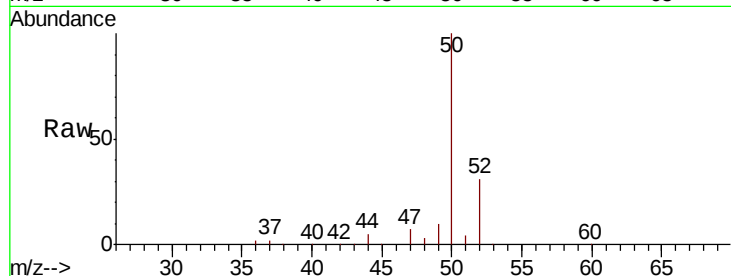
52 31.3 25.9 38.9

Manual Integrations

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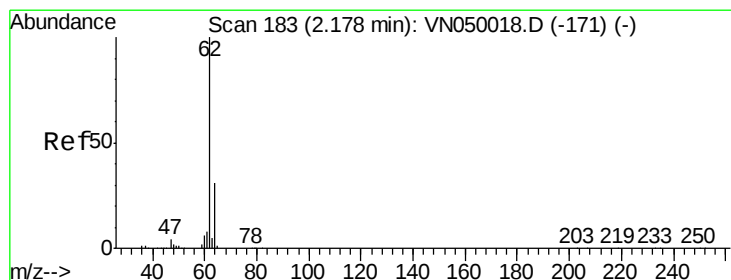
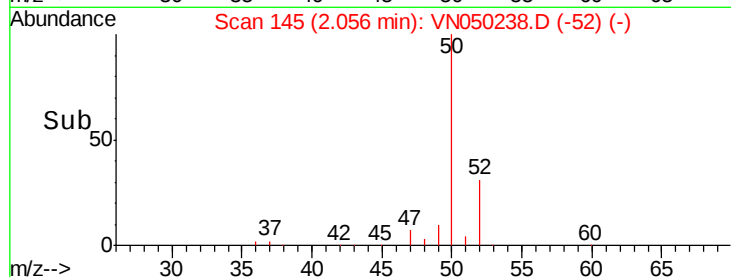
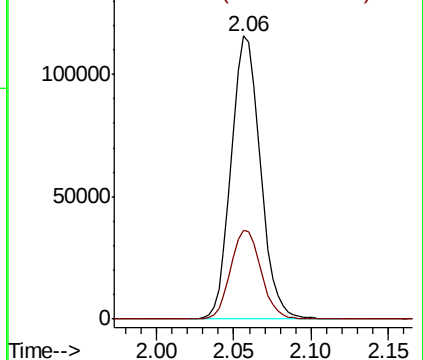
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Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO



#4

Vinyl Chloride

Concen: 17.397 ug/l

RT: 2.18 min Scan# 183

Delta R.T. 0.00 min

Lab File: VN050238.D

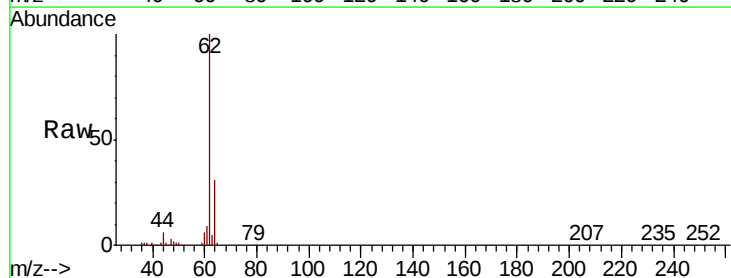
Acq: 1 Aug 2018 10:35

Tgt Ion: 62 Resp: 157288

Ion Ratio Lower Upper

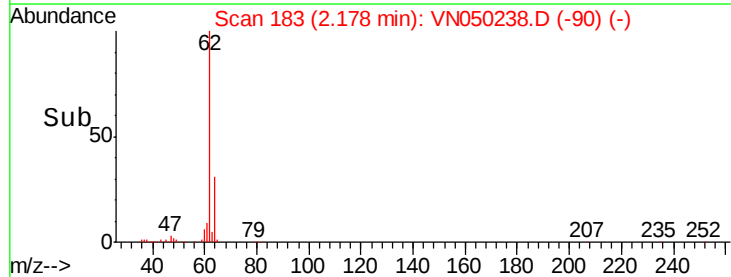
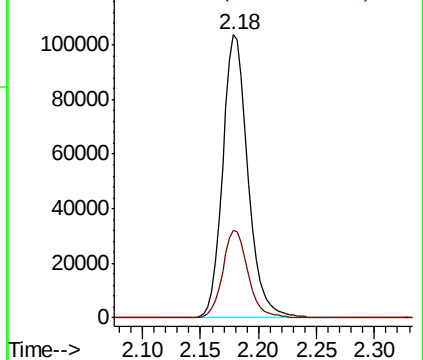
62 100

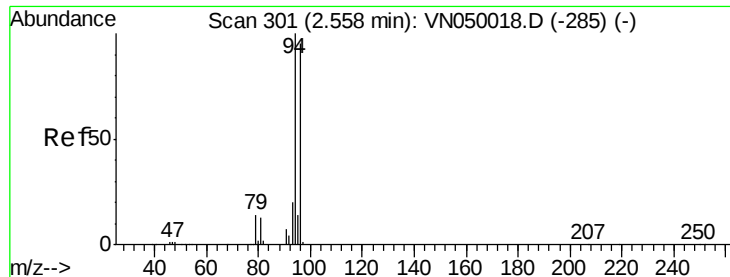
64 31.1 24.7 37.1



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO





#5

Bromomethane

Concen: 12.678 ug/l

RT: 2.56 min Scan# 302

Delta R.T. 0.01 min

Lab File: VN050238.D

Acq: 1 Aug 2018 10:35

Instrument :

MSVOA_N

ClientSampleId :

VN0801WBSD01

Tot Ion: 94 Resp: 67413

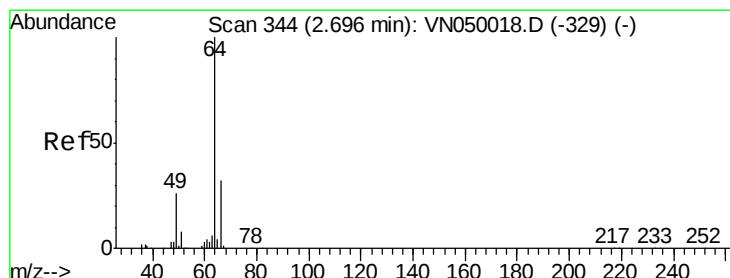
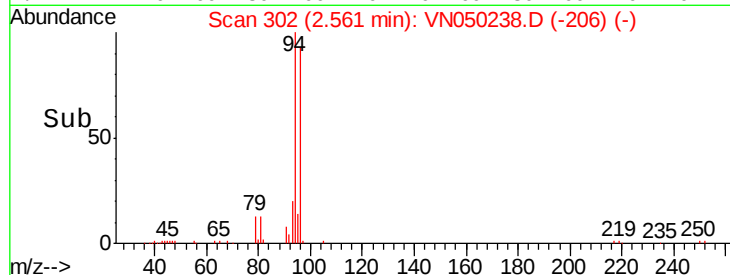
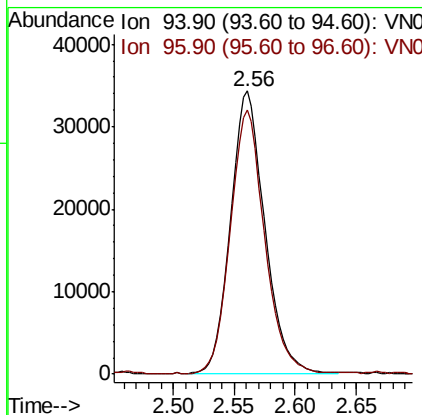
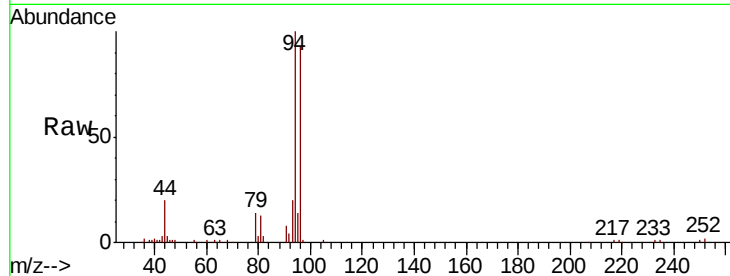
Ion Ratio Lower Upper

94 100

96 93.3 74.6 112.0

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#6

Chloroethane

Concen: 17.432 ug/l

RT: 2.70 min Scan# 344

Delta R.T. 0.00 min

Lab File: VN050238.D

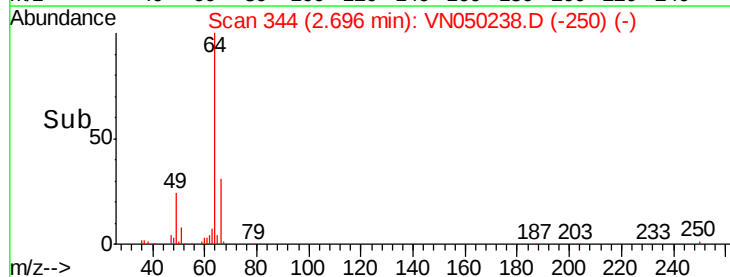
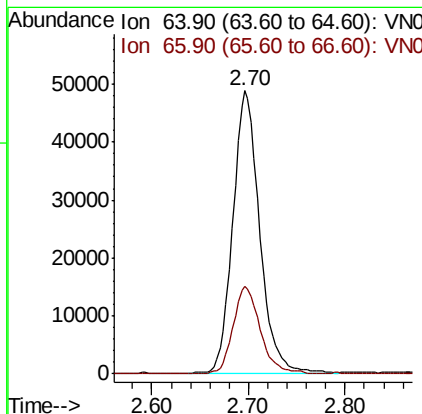
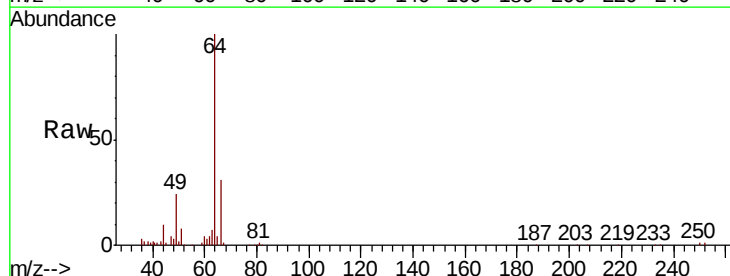
Acq: 1 Aug 2018 10:35

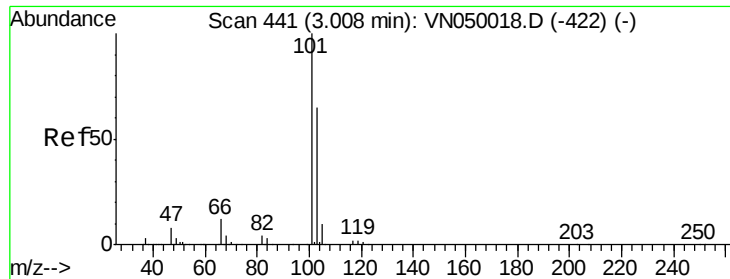
Tgt Ion: 64 Resp: 94650

Ion Ratio Lower Upper

64 100

66 30.7 25.3 37.9





#7

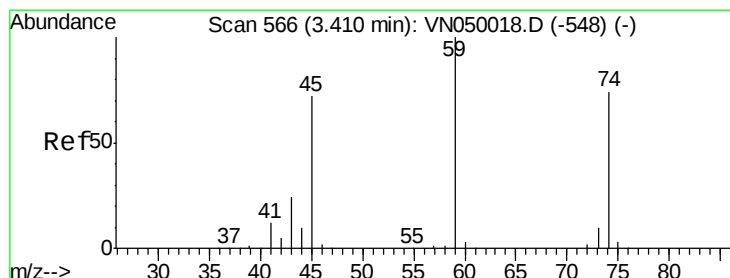
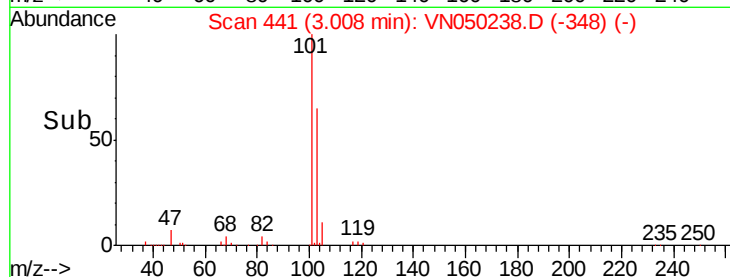
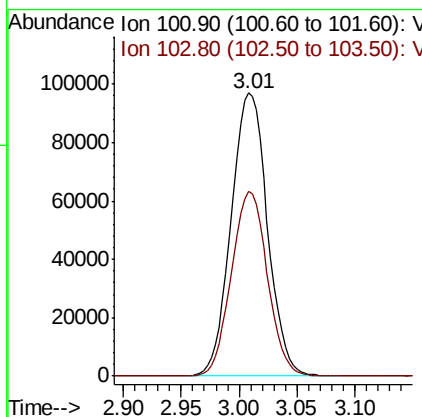
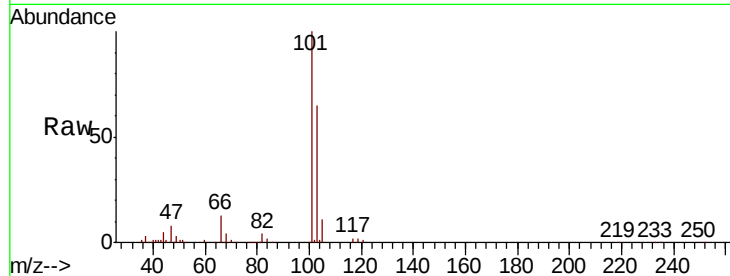
Trichlorofluoromethane
 Concen: 17.936 ug/l
 RT: 3.01 min Scan# 441
 Delta R.T. 0.00 min
 Lab File: VN050238.D
 Acq: 1 Aug 2018 10:35

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Tot Ion	Ion	Ratio	Resp	Lower	Upper
101	100		210078		
103	65.1	51.7	77.5		

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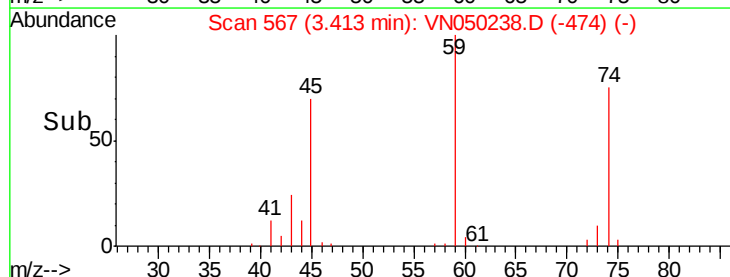
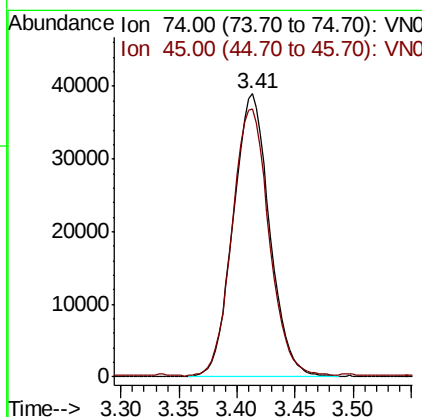
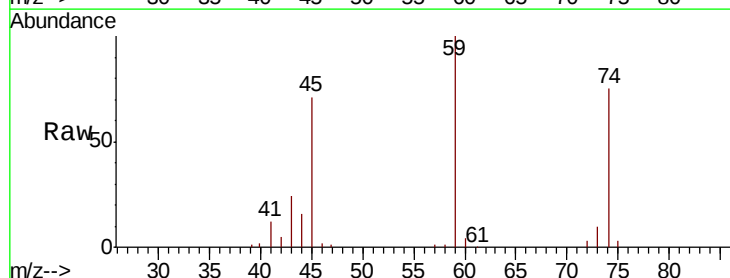
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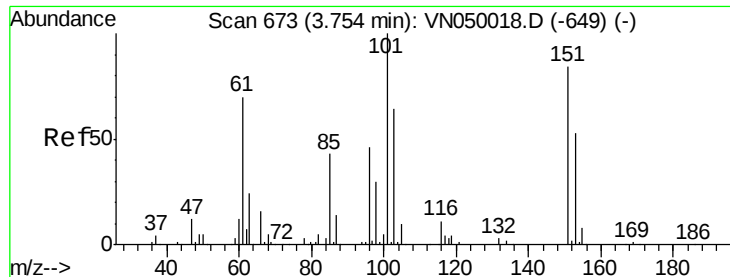


#8

Diethyl Ether
 Concen: 21.825 ug/l
 RT: 3.41 min Scan# 567
 Delta R.T. 0.00 min
 Lab File: VN050238.D
 Acq: 1 Aug 2018 10:35

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
74	100		85217		
45	95.6	47.6	142.8		





#9

1,1,2-Trichlorotrifluoroethane

Concen: 18.640 ug/l

RT: 3.75 min Scan# 673

Delta R.T. 0.00 min

Lab File: VN050238.D

Acq: 1 Aug 2018 10:35

Instrument :

MSVOA_N

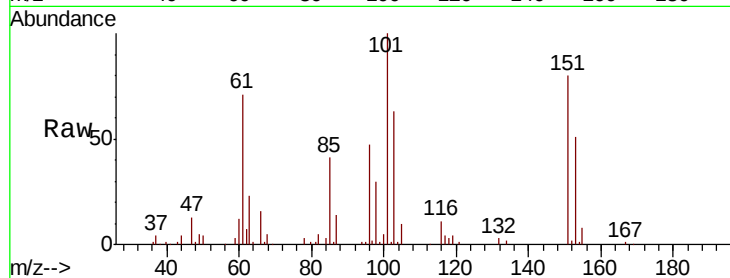
ClientSampleId :

VN0801WBSD01

Tot Ion:	101	Resp:	131284
Ion Ratio	Lower	Upper	
101	100		
85	41.4	34.2	51.2
151	82.4	66.3	99.5

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8/2/2018 9:53:45 AM

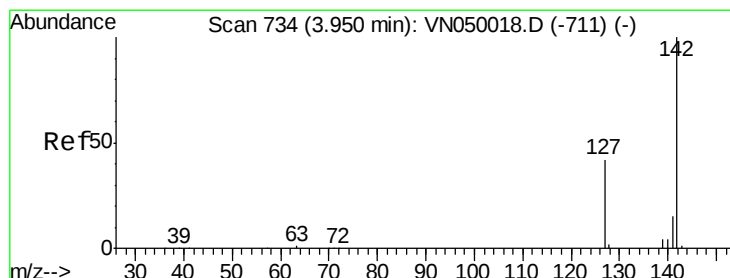
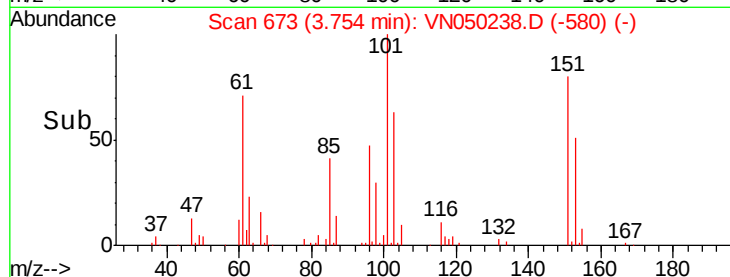
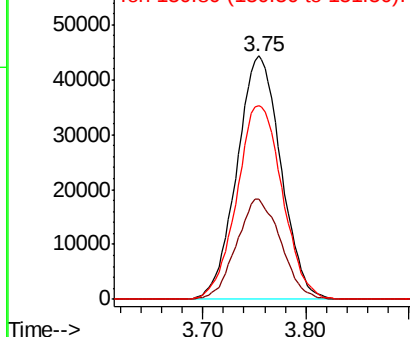


Abundance

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: 8.763 ug/l

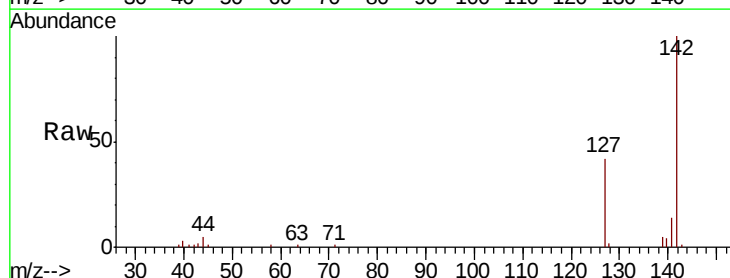
RT: 3.95 min Scan# 734

Delta R.T. 0.00 min

Lab File: VN050238.D

Acq: 1 Aug 2018 10:35

Tgt Ion:	142	Resp:	79218
Ion Ratio	Lower	Upper	
142	100		
127	42.1	33.4	50.2
141	14.2	11.6	17.4

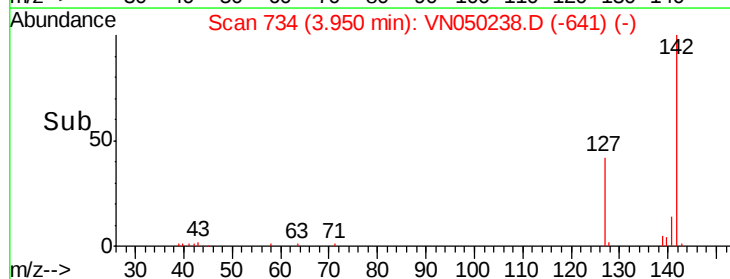
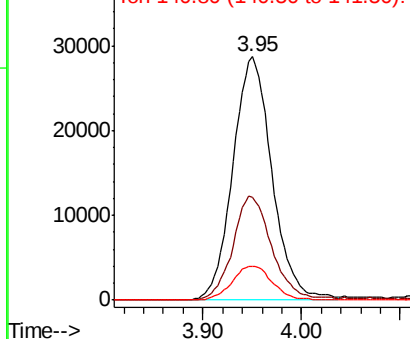


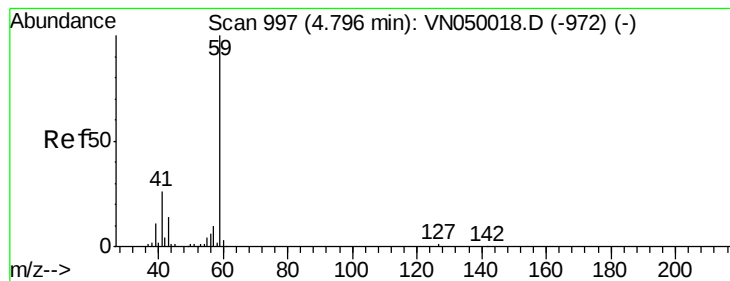
Abundance

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

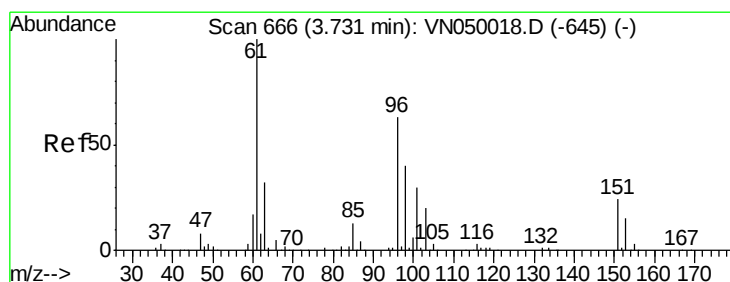
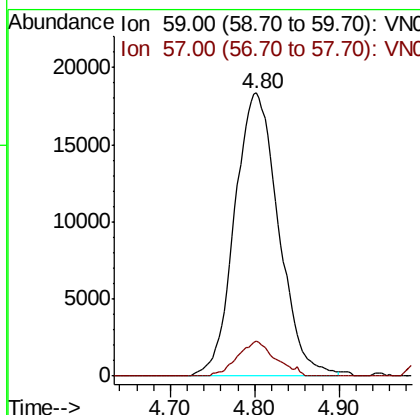
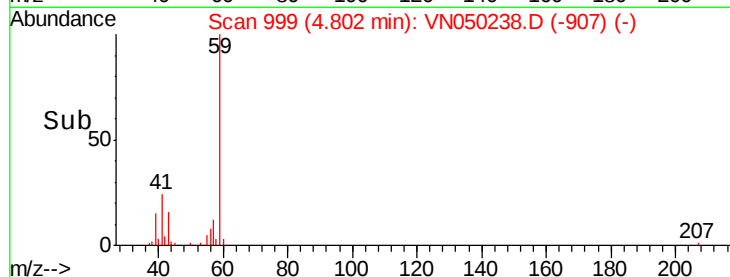
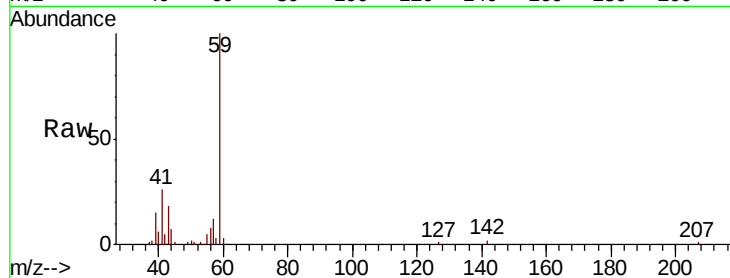
Tert butyl alcohol
 Concen: 117.723 ug/l
 RT: 4.80 min Scan# 999
 Delta R.T. -0.00 min
 Lab File: VN050238.D
 Acq: 1 Aug 2018 10:35

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0801WBSD01

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.7	8.5	12.7

Manual Integrations
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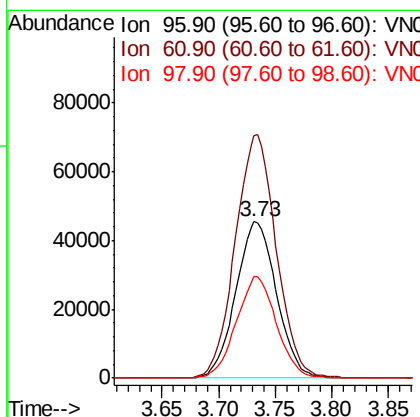
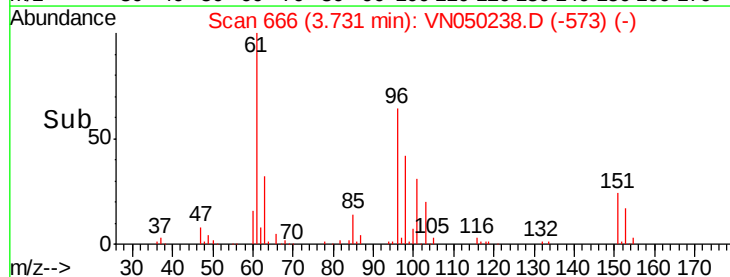
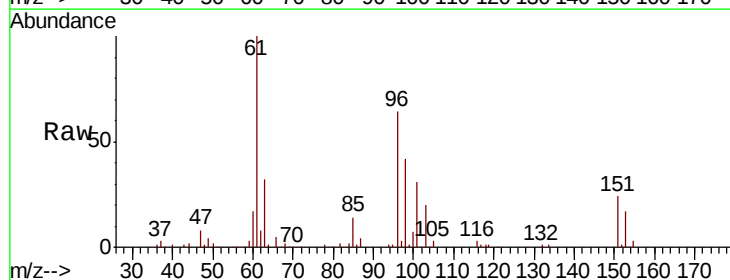
MMDadoda
 8/2/2018 9:53:45 AM

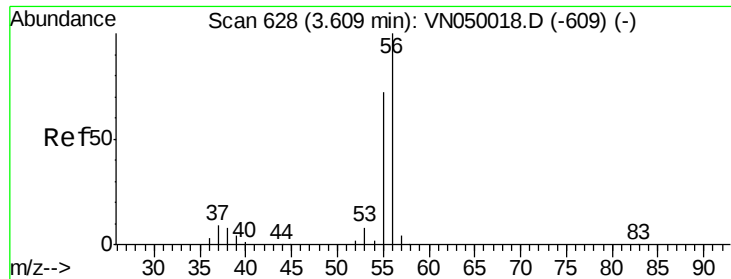


#12

1,1-Dichloroethene
 Concen: 17.962 ug/l
 RT: 3.73 min Scan# 666
 Delta R.T. 0.00 min
 Lab File: VN050238.D
 Acq: 1 Aug 2018 10:35

Tgt Ion	Ratio	Lower	Upper
96	100		
61	155.3	124.4	186.6
98	64.8	48.3	72.5





#13

Acrolein

Concen: 64.786 ug/l

RT: 3.61 min Scan# 627

Delta R.T. -0.00 min

Lab File: VN050238.D

Acq: 1 Aug 2018 10:35

Instrument :

MSVOA_N

ClientSampled :

VN0801WBSD01

Tot Ion: 56 Resp: 29374

Ion Ratio Lower Upper

56 100

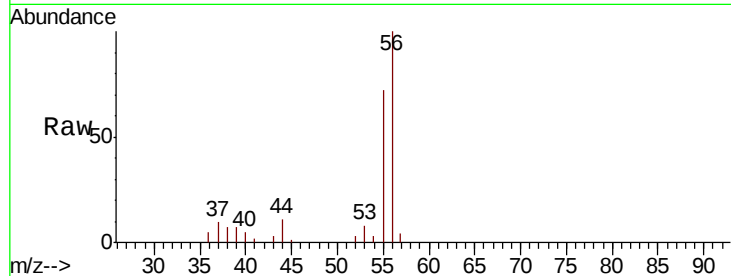
55 72.7 55.8 83.6

Manual Integrations

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Abundance Ion 56.00 (55.70 to 56.70): VN050238.D (-609) (-)

Ion 55.00 (54.70 to 55.70): VN050238.D (-609) (-)

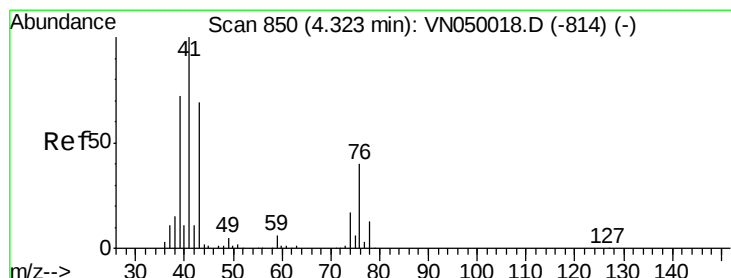
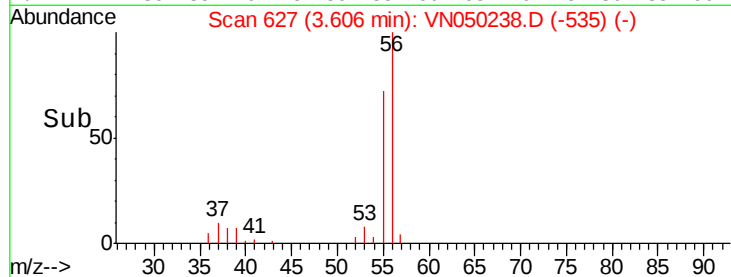
3.61

10000

5000

0

Time-->



#14

Allyl chloride

Concen: 19.747 ug/l

RT: 4.32 min Scan# 850

Delta R.T. 0.00 min

Lab File: VN050238.D

Acq: 1 Aug 2018 10:35

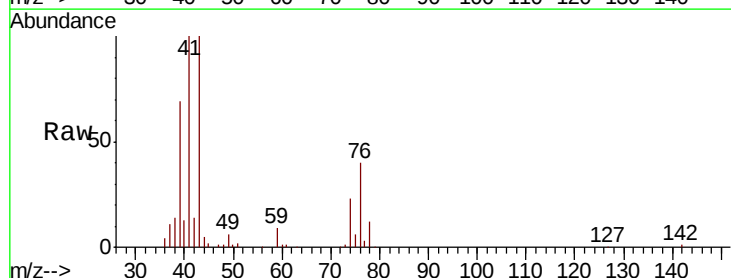
Tgt Ion: 41 Resp: 193997

Ion Ratio Lower Upper

41 100

39 65.1 54.2 81.4

76 35.5 29.0 43.6



Abundance Ion 41.00 (40.70 to 41.70): VN050238.D (-757) (-)

Ion 39.00 (38.70 to 39.70): VN050238.D (-757) (-)

Ion 75.90 (75.60 to 76.60): VN050238.D (-757) (-)

4.32

80000

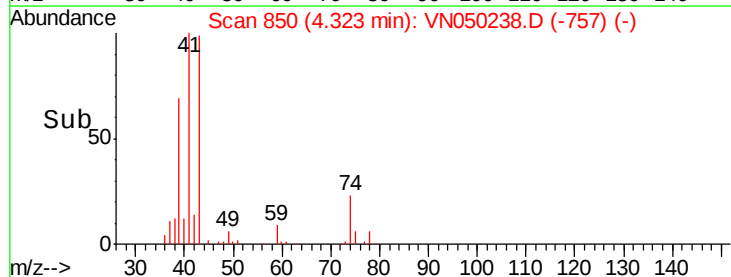
60000

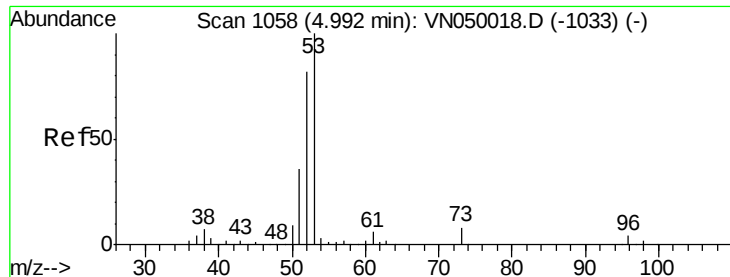
40000

20000

0

Time-->





#15

Acrylonitrile

Concen: 111.989 ug/l

RT: 5.00 min Scan# 1060

Delta R.T. 0.00 min

Lab File: VN050238.D

Acq: 1 Aug 2018 10:35

Instrument :

MSVOA_N

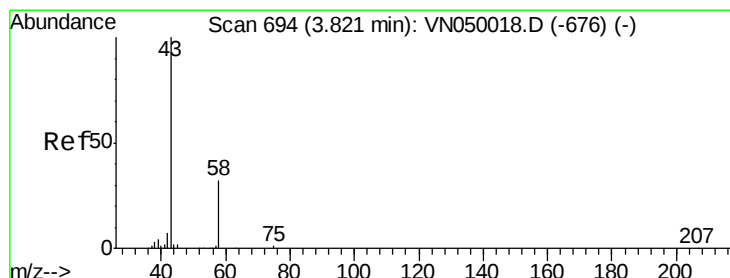
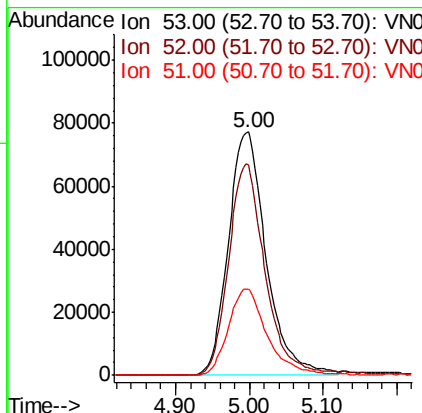
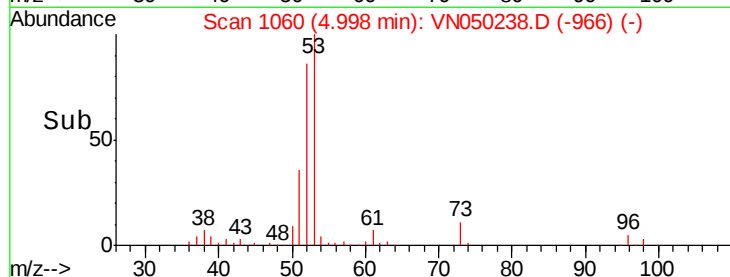
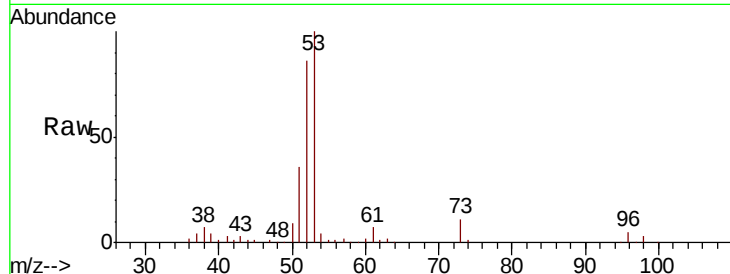
ClientSampled :

VN0801WBSD01

Tot Ion:	53	Resp:	275721
Ion	Ratio	Lower	Upper
53	100		
52	83.4	66.2	99.2
51	36.6	29.3	43.9

Manual Integrations
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#16

Acetone

Concen: 120.762 ug/l

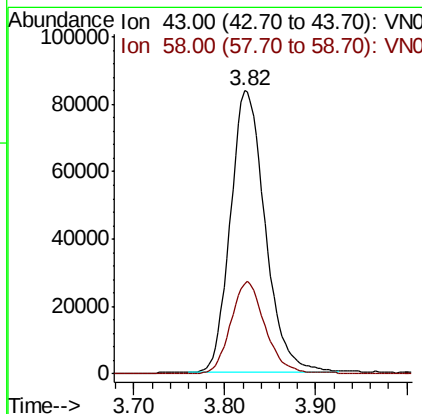
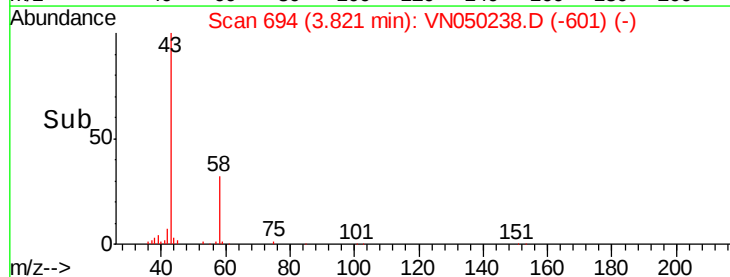
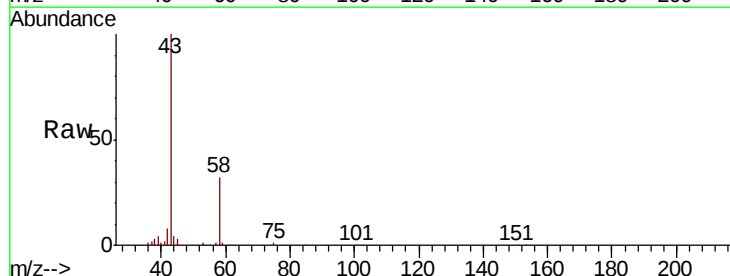
RT: 3.82 min Scan# 694

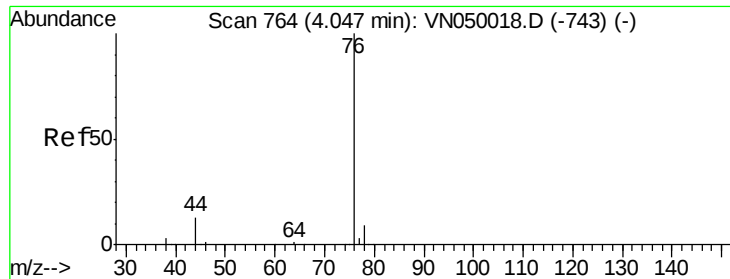
Delta R.T. -0.00 min

Lab File: VN050238.D

Acq: 1 Aug 2018 10:35

Tgt Ion:	43	Resp:	222219
Ion	Ratio	Lower	Upper
43	100		
58	31.6	25.8	38.8





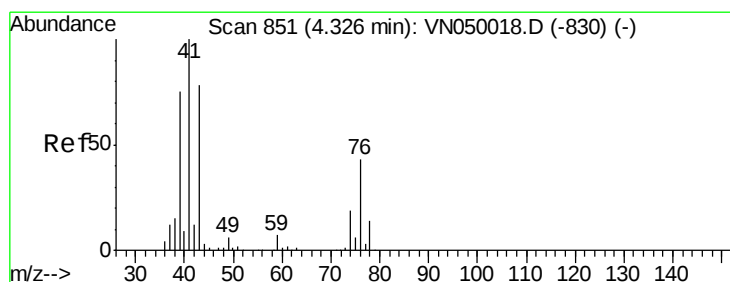
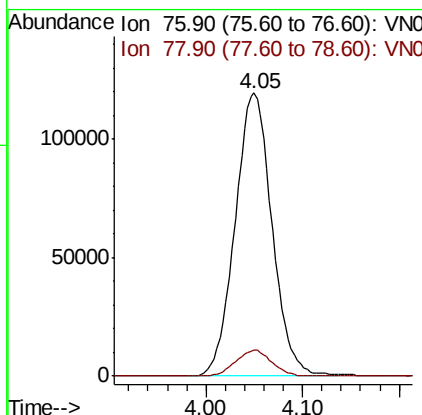
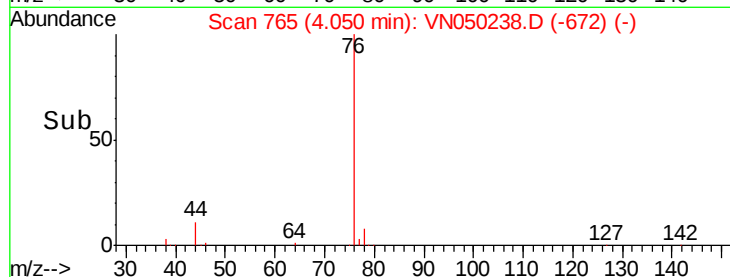
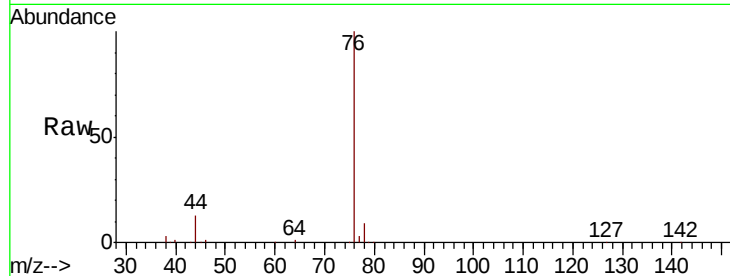
#17
Carbon Disulfide
Concen: 16.327 ug/l
RT: 4.05 min Scan# 765
Delta R.T. 0.00 min
Lab File: VN050238.D
Acq: 1 Aug 2018 10:35

Instrument :
MSVOA_N
ClientSampled :
VN0801WBSD01

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.4	7.3	10.9

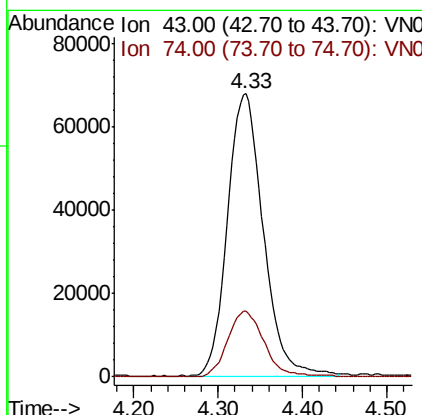
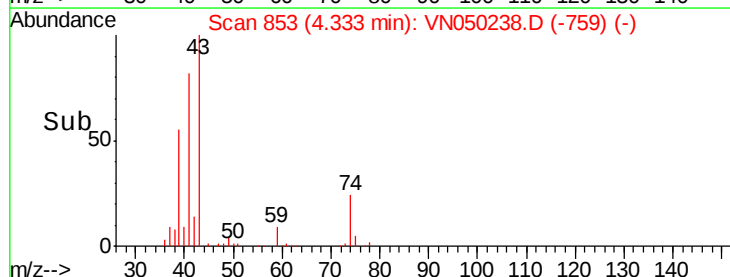
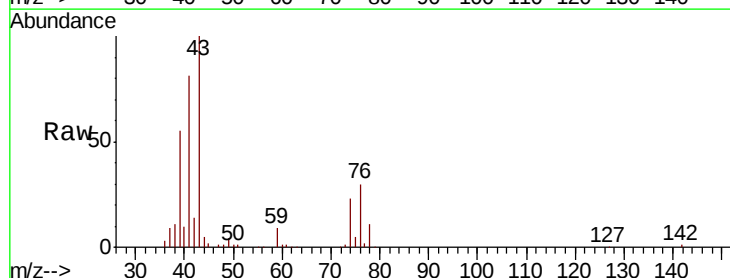
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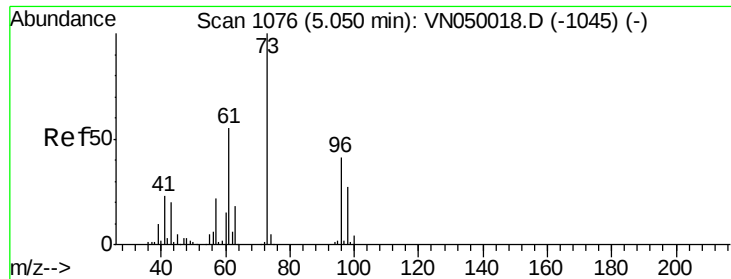
MMDadoda
8/2/2018 9:53:45 AM



#18
Methyl Acetate
Concen: 27.573 ug/l
RT: 4.33 min Scan# 853
Delta R.T. 0.00 min
Lab File: VN050238.D
Acq: 1 Aug 2018 10:35

Tgt Ion	Ratio	Lower	Upper
43	100		
74	23.6	19.2	28.8





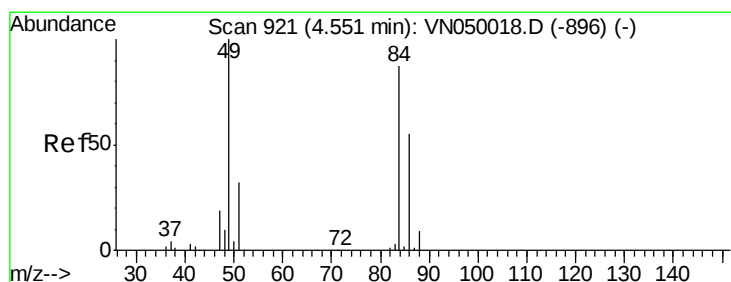
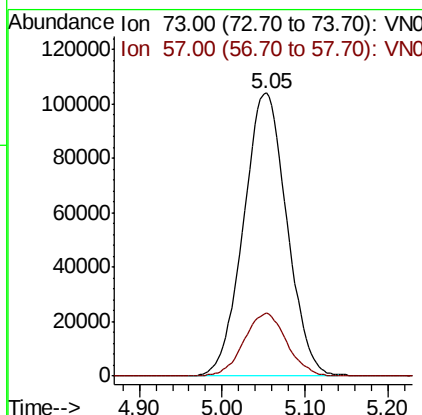
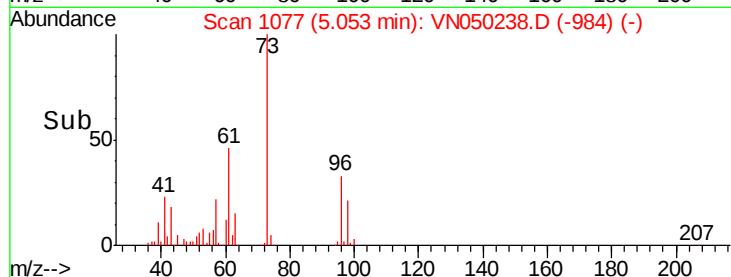
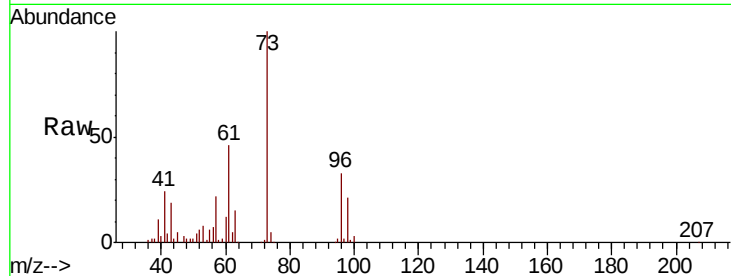
#19
Methvl tert-butvl Ether
Concen: 22.400 ug/l
RT: 5.05 min Scan# 1077
Delta R.T. 0.00 min
Lab File: VN050238.D
Acq: 1 Aug 2018 10:35

Instrument :
MSVOA_N
ClientSampleId :
VN0801WBSD01

Tot Ion: 73 Resp: 378207
Ion Ratio Lower Upper
73 100
57 22.3 18.0 27.0

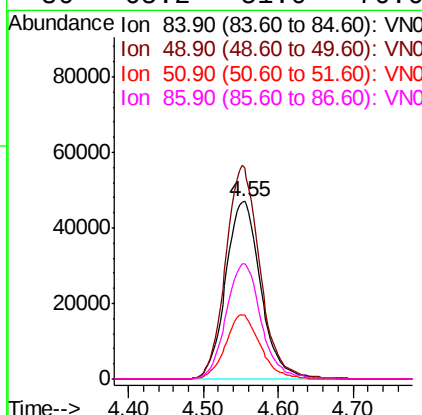
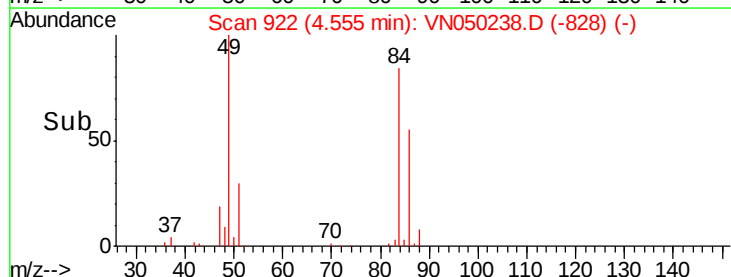
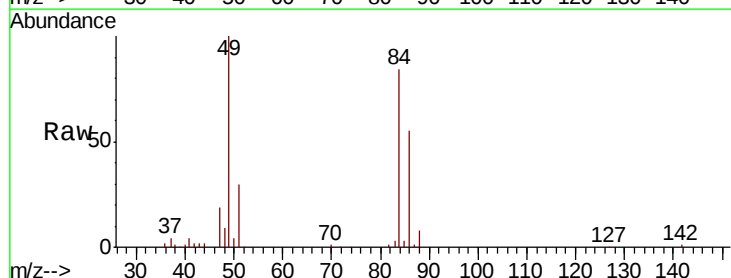
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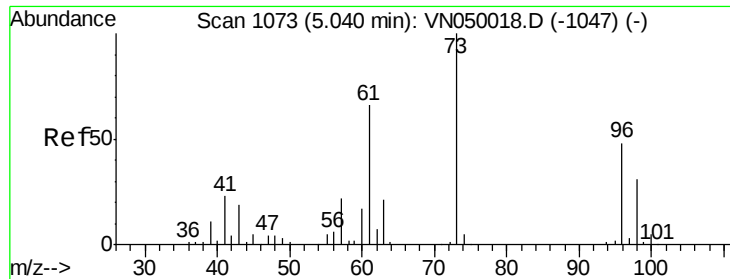
MMDadoda
8/2/2018 9:53:45 AM



#20
Methylene Chloride
Concen: 21.805 ug/l
RT: 4.55 min Scan# 922
Delta R.T. 0.00 min
Lab File: VN050238.D
Acq: 1 Aug 2018 10:35

Tgt Ion: 84 Resp: 153084
Ion Ratio Lower Upper
84 100
49 118.5 94.8 142.2
51 36.0 28.3 42.5
86 65.2 51.0 76.6





#21

trans-1,2-Dichloroethene

Concen: 18.988 ug/l

RT: 5.04 min Scan# 1074

Delta R.T. 0.00 min

Lab File: VN050238.D

Acq: 1 Aug 2018 10:35

Instrument :

MSVOA_N

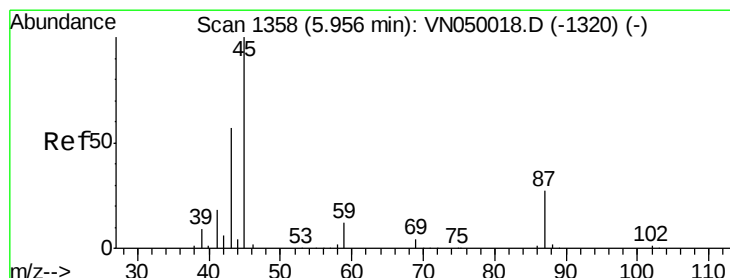
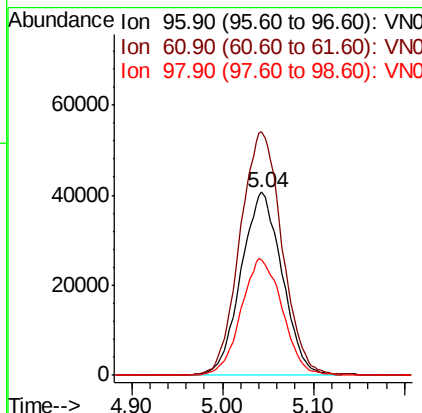
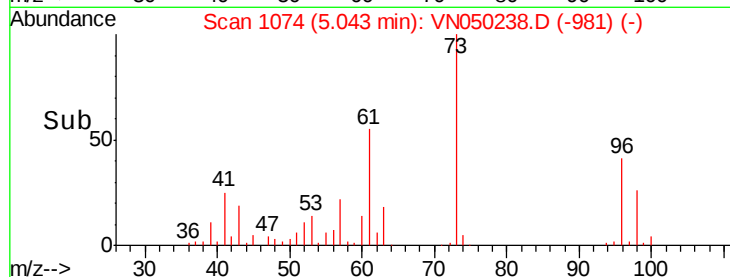
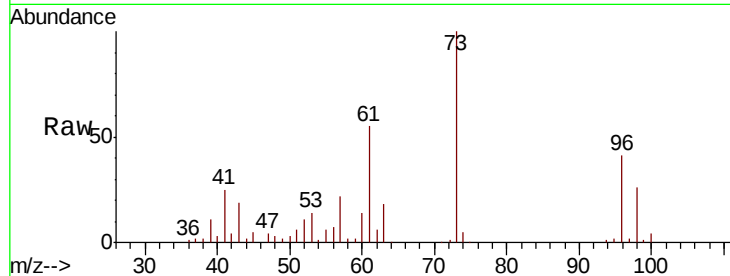
ClientSampled :

VN0801WBSD01

Tot Ion:	96	Resp:	127471
Ion	Ratio	Lower	Upper
96	100		
61	132.8	110.7	166.1
98	62.8	51.6	77.4

Manual Integrations
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8/2/2018 9:53:45 AM



#22

Diisopropyl ether

Concen: 22.486 ug/l

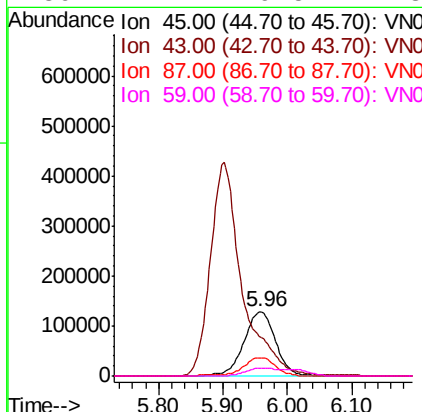
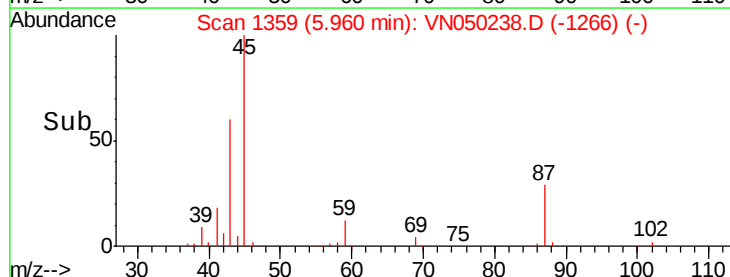
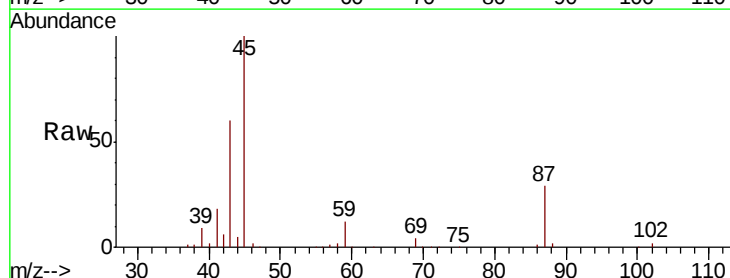
RT: 5.96 min Scan# 1359

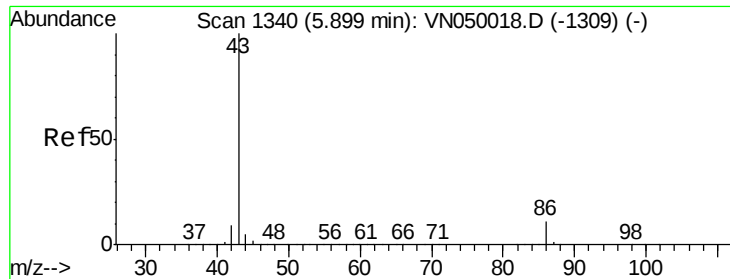
Delta R.T. 0.00 min

Lab File: VN050238.D

Acq: 1 Aug 2018 10:35

Tgt Ion:	45	Resp:	438007
Ion	Ratio	Lower	Upper
45	100		
43	58.8	45.7	68.5
87	28.6	22.7	34.1
59	12.2	9.5	14.3





#23

Vinyl Acetate

Concen: 106.844 ug/l

RT: 5.90 min Scan# 1341

Delta R.T. 0.00 min

Lab File: VN050238.D

Acq: 1 Aug 2018 10:35

Instrument :

MSVOA_N

ClientSampleId :

VN0801WBSD01

Tot Ion: 43 Resp: 1470783

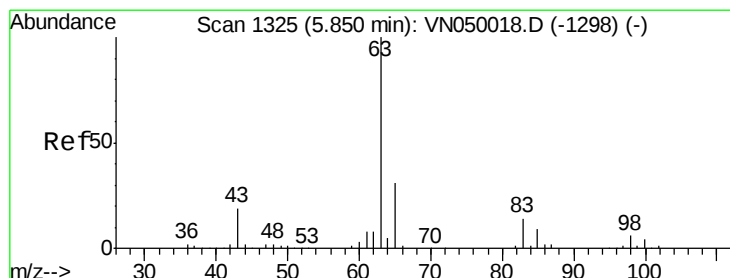
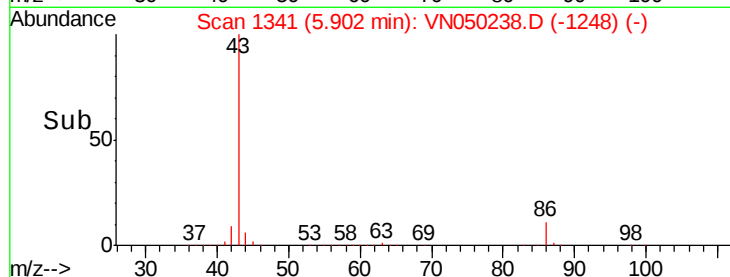
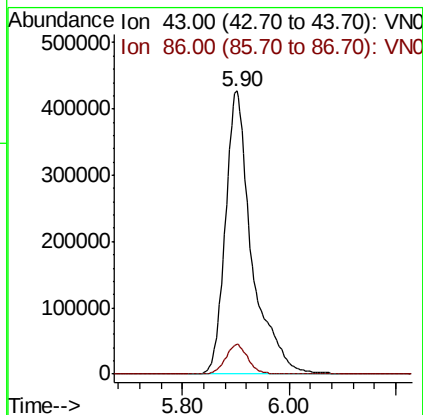
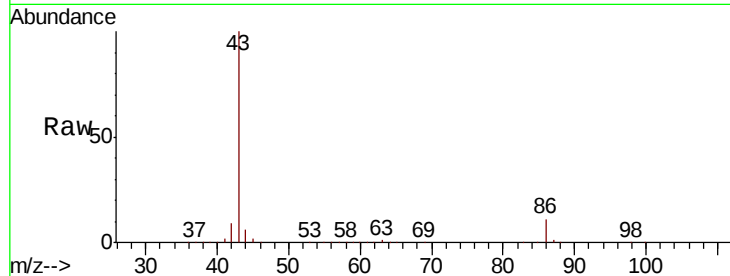
Ion Ratio Lower Upper

43 100

86 10.5 8.6 13.0

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#24

1,1-Dichloroethane

Concen: 20.332 ug/l

RT: 5.85 min Scan# 1326

Delta R.T. 0.00 min

Lab File: VN050238.D

Acq: 1 Aug 2018 10:35

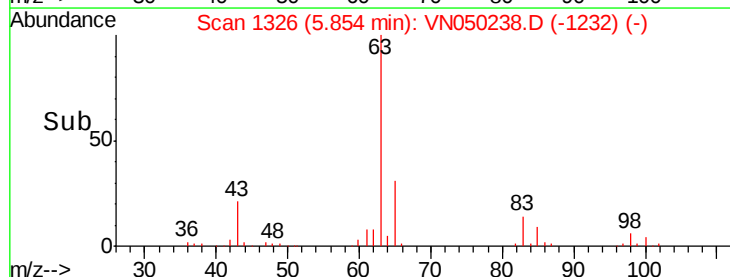
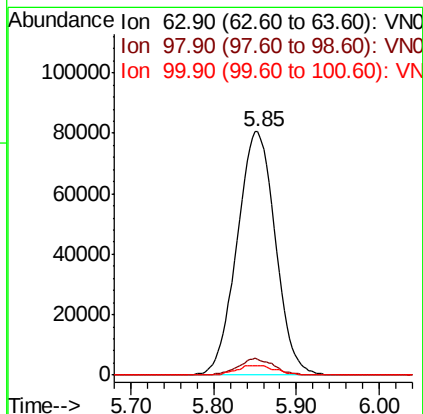
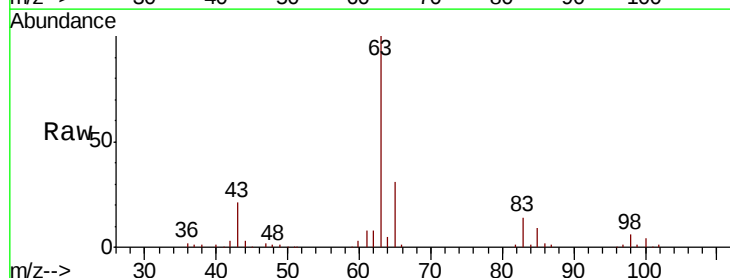
Tgt Ion: 63 Resp: 258977

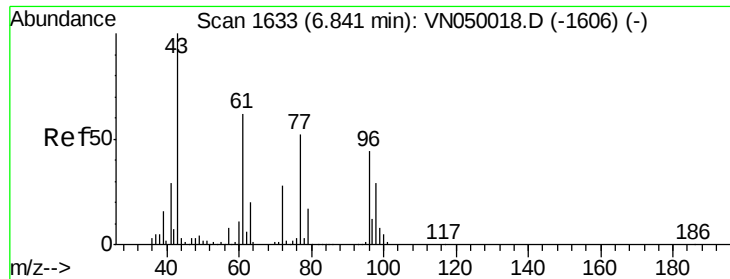
Ion Ratio Lower Upper

63 100

98 6.5 3.3 9.8

100 3.7 2.1 6.3





#25

2-Butanone

Concen: 114.129 ug/l

RT: 6.84 min Scan# 1634

Delta R.T. 0.00 min

Lab File: VN050238.D

Acq: 1 Aug 2018 10:35

Instrument :

MSVOA_N

ClientSampleId :

VN0801WBSD01

Tot Ion: 43 Resp: 333870

Ion Ratio Lower Upper

43 100

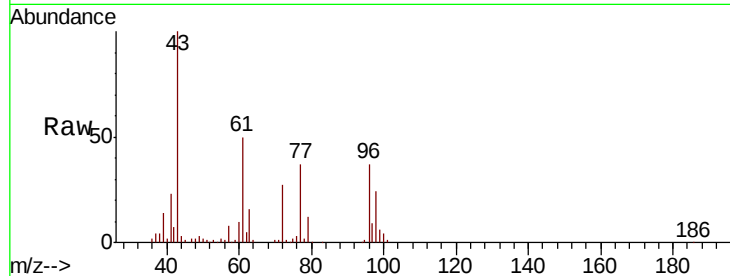
72 26.6 21.5 32.3

Manual Integrations

APPROVED

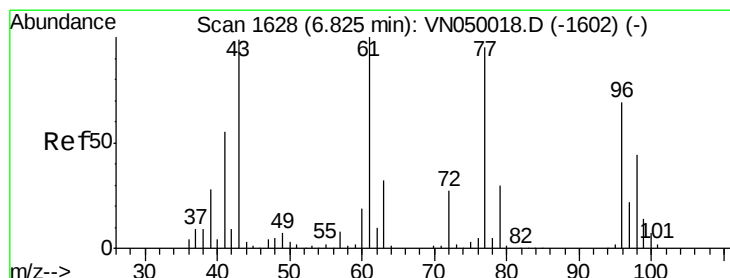
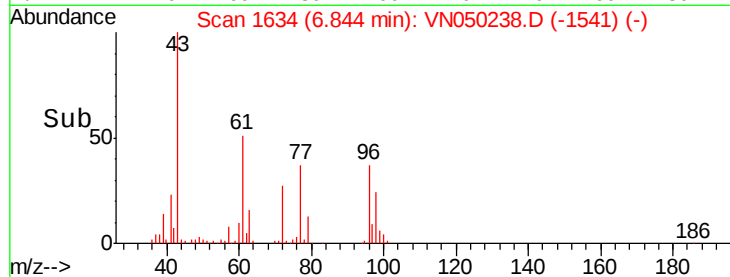
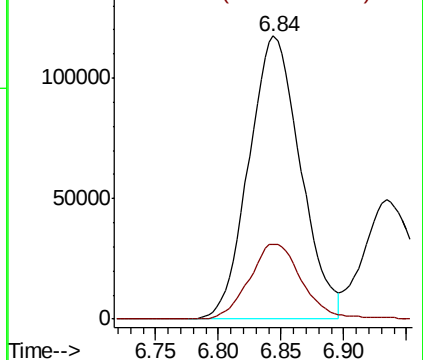
MMDadoda

8/2/2018 9:53:45 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#26

2,2-Dichloropropane

Concen: 20.031 ug/l

RT: 6.83 min Scan# 1629

Delta R.T. 0.00 min

Lab File: VN050238.D

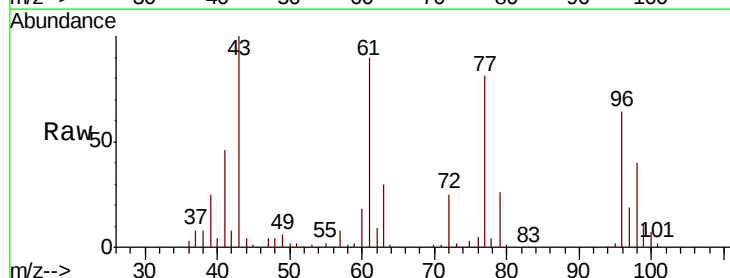
Acq: 1 Aug 2018 10:35

Tgt Ion: 77 Resp: 194105

Ion Ratio Lower Upper

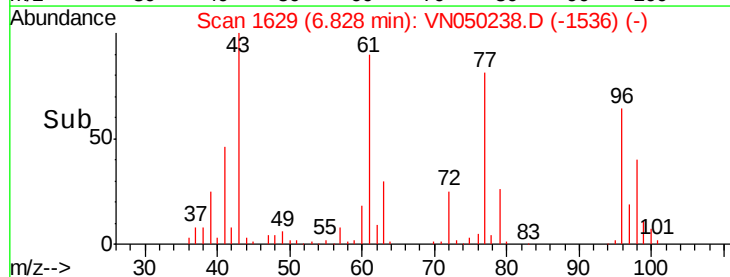
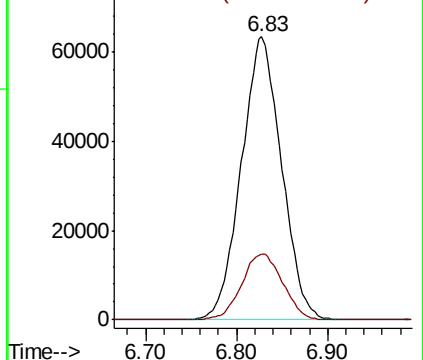
77 100

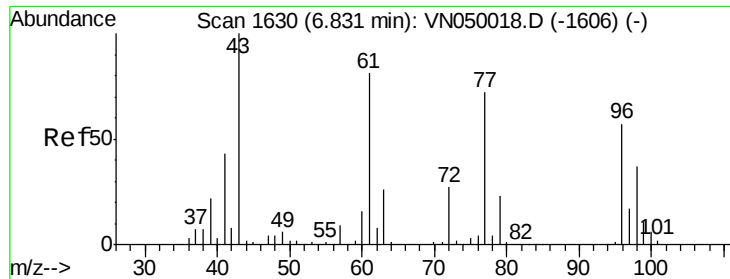
97 23.8 11.8 35.3



Abundance Ion 76.90 (76.60 to 77.60): VN0

Ion 96.90 (96.60 to 97.60): VN0





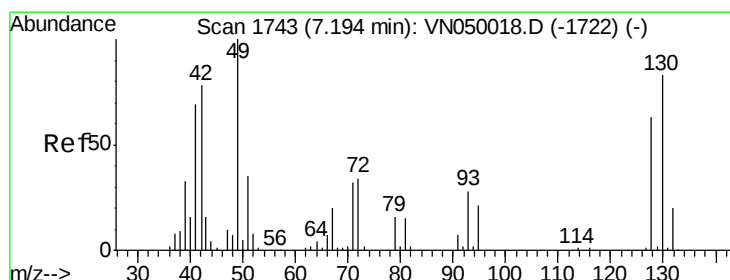
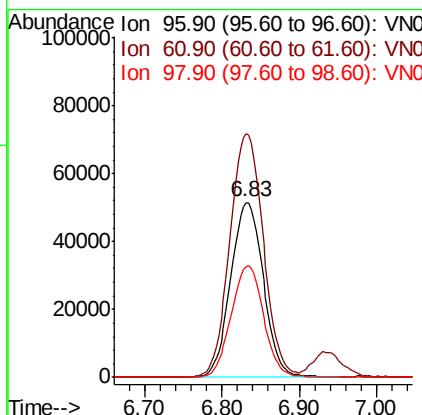
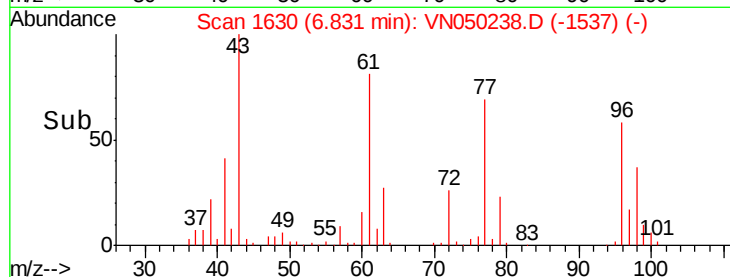
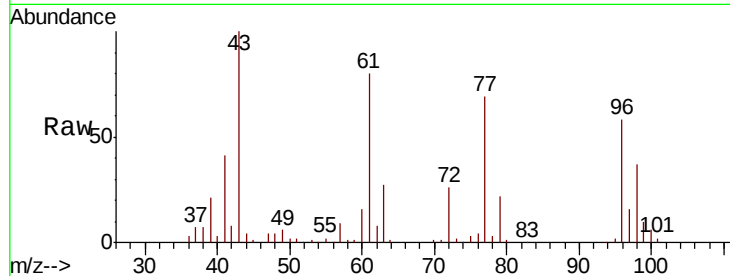
#27
 cis-1,2-Dichloroethene
 Concen: 20.977 ug/l
 RT: 6.83 min Scan# 1630
 Delta R.T. 0.00 min
 Lab File: VN050238.D
 Acq: 1 Aug 2018 10:35

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0801WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
96	100			
61	142.2	0.0	285.0	
98	63.2	0.0	129.2	

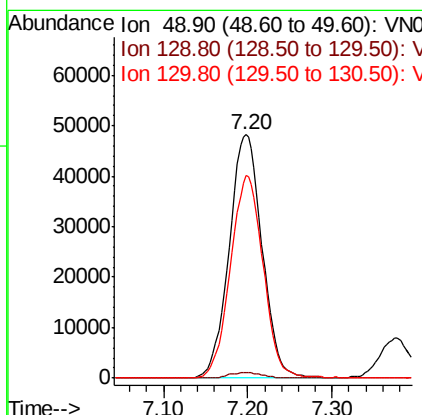
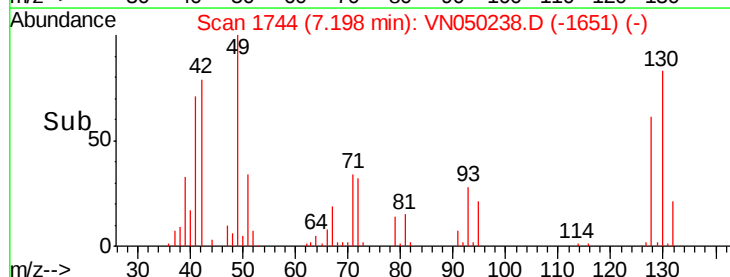
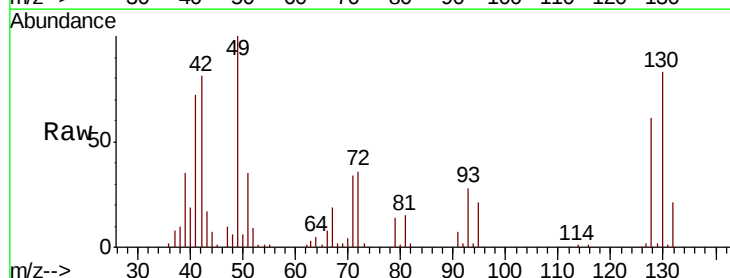
Manual Integrations
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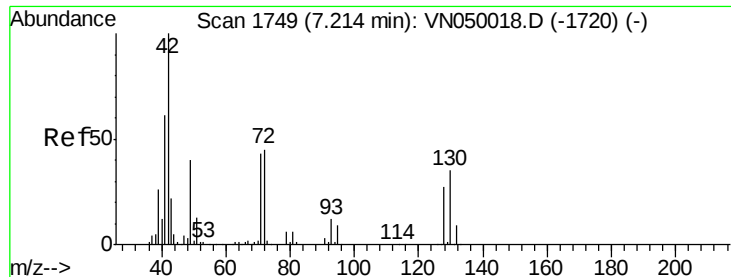
MMDadoda
 8/2/2018 9:53:45 AM



#28
 Bromochloromethane
 Concen: 22.553 ug/l
 RT: 7.20 min Scan# 1744
 Delta R.T. 0.00 min
 Lab File: VN050238.D
 Acq: 1 Aug 2018 10:35

Tgt Ion	Ratio	Resp	Lower	Upper
49	100			
129	2.3	0.0	4.0	
130	82.6	66.3	99.5	





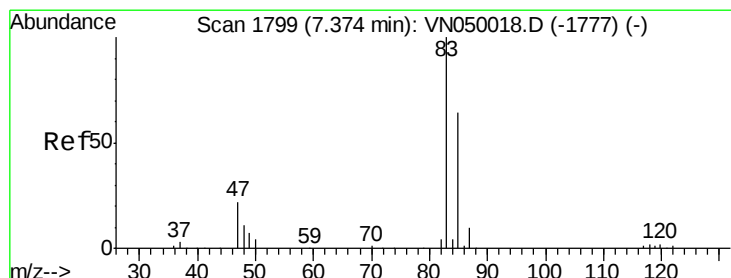
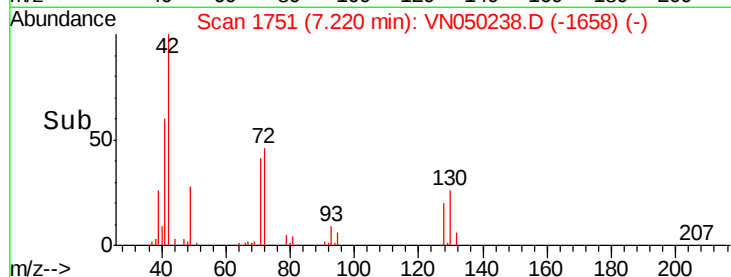
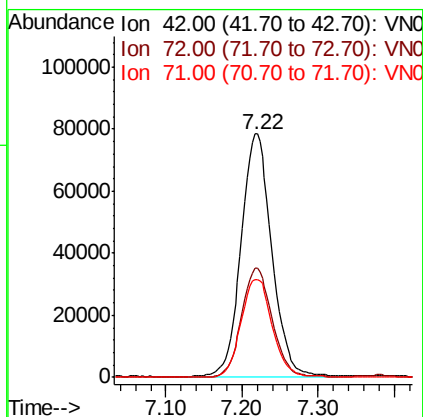
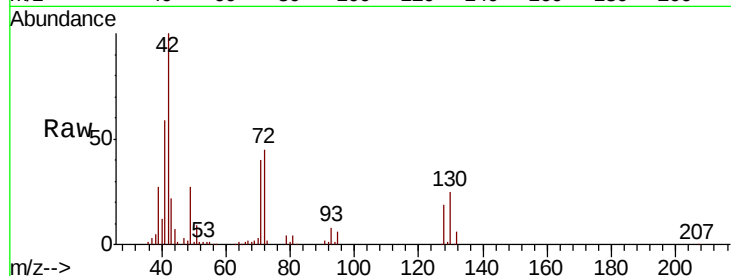
#29
Tetrahydrofuran
Concen: 115.828 ug/l
RT: 7.22 min Scan# 1751
Delta R.T. 0.00 min
Lab File: VN050238.D
Acq: 1 Aug 2018 10:35

Instrument :
MSVOA_N
ClientSampleId :
VN0801WBSD01

Tot Ion	Ratio	Lower	Upper
42	100		
72	45.0	35.9	53.9
71	41.2	33.7	50.5

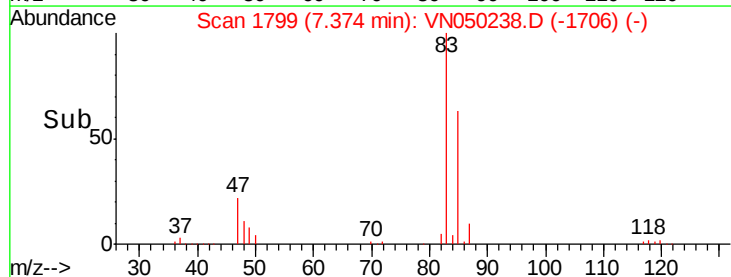
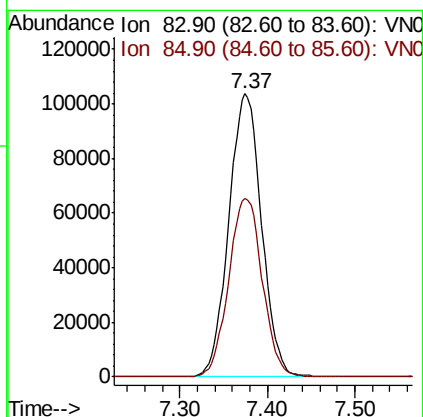
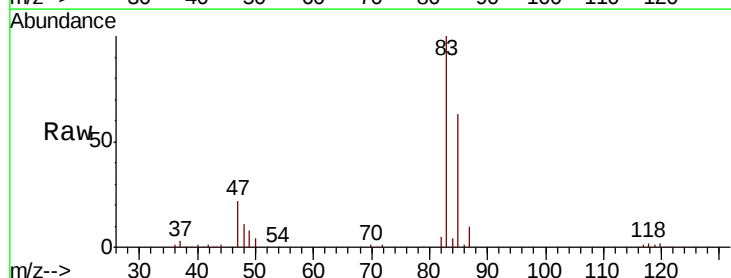
Manual Integrations
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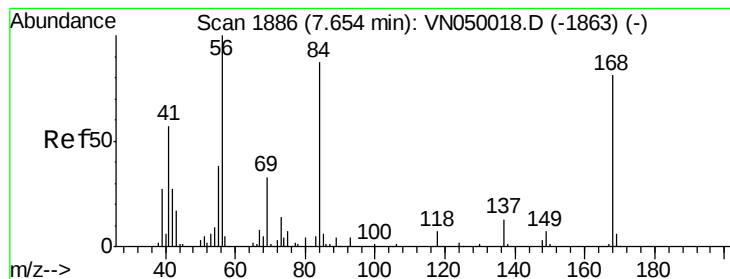
MMDadoda
8/2/2018 9:53:45 AM



#30
Chloroform
Concen: 20.735 ug/l
RT: 7.37 min Scan# 1799
Delta R.T. 0.00 min
Lab File: VN050238.D
Acq: 1 Aug 2018 10:35

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.2	52.5	78.7





#31

Cyclohexane

Concen: 18.060 ug/l

RT: 7.66 min Scan# 1887

Delta R.T. 0.00 min

Lab File: VN050238.D

Acq: 1 Aug 2018 10:35

Instrument :

MSVOA_N

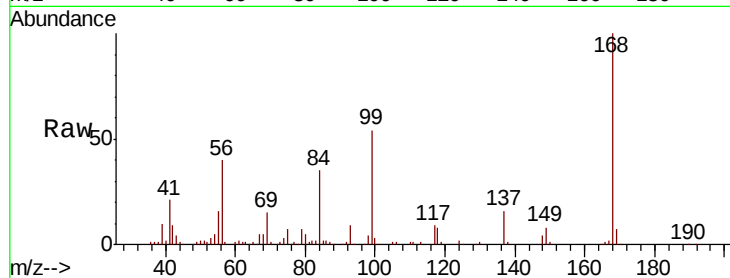
ClientSampled :

VN0801WBSD01

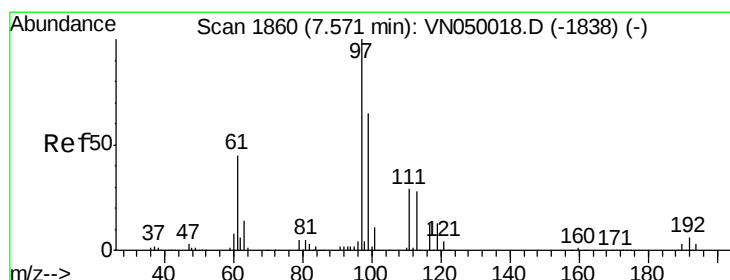
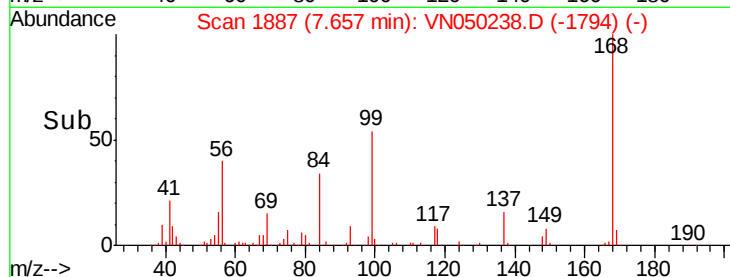
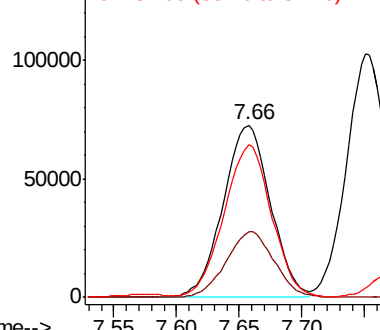
Tot Ion:	56	Resp:	191238
Ion	Ratio	Lower	Upper
56	100		
69	38.0	26.2	39.4
84	87.1	67.4	101.0

Manual Integrations
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8/2/2018 9:53:45 AM



Abundance Ion 56.00 (55.70 to 56.70): VN050018.D (-1863) (-)



#32

1,1,1-Trichloroethane

Concen: 19.310 ug/l

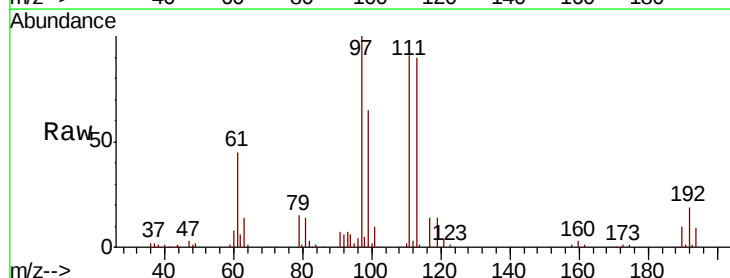
RT: 7.57 min Scan# 1861

Delta R.T. 0.00 min

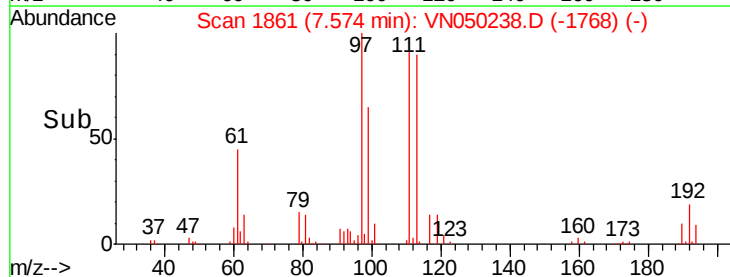
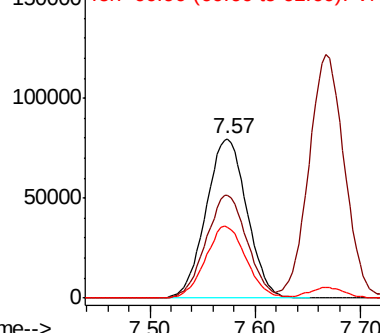
Lab File: VN050238.D

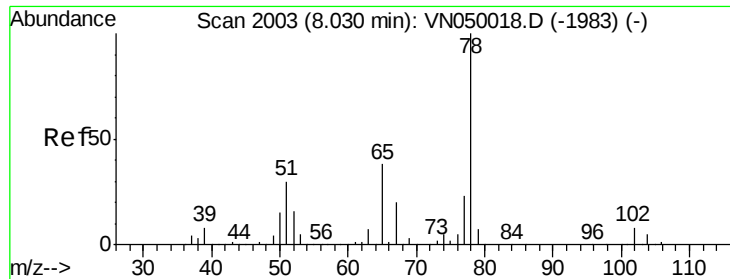
Acq: 1 Aug 2018 10:35

Tgt Ion:	97	Resp:	214702
Ion	Ratio	Lower	Upper
97	100		
99	64.9	51.4	77.0
61	44.8	35.4	53.0



Abundance Ion 96.90 (96.60 to 97.60): VN050018.D (-1838) (-)





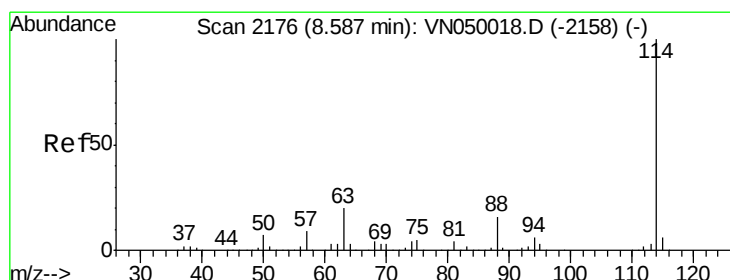
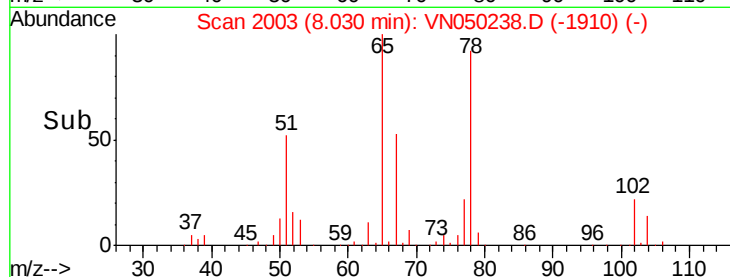
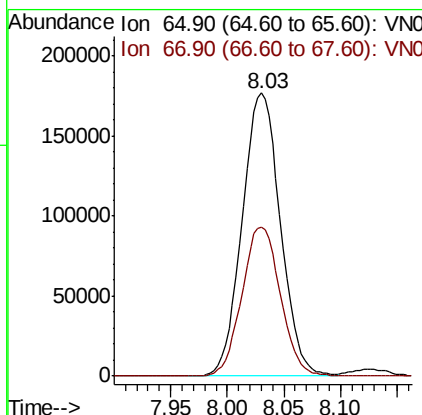
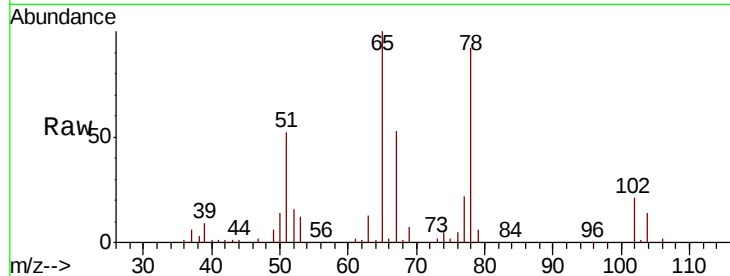
#33
 1,2-Dichloroethane-d4
 Concen: 54.270 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN050238.D
 Acq: 1 Aug 2018 10:35

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0801WBSD01

Tot Ion: 65 Resp: 416225
 Ion Ratio Lower Upper
 65 100
 67 53.0 0.0 108.4

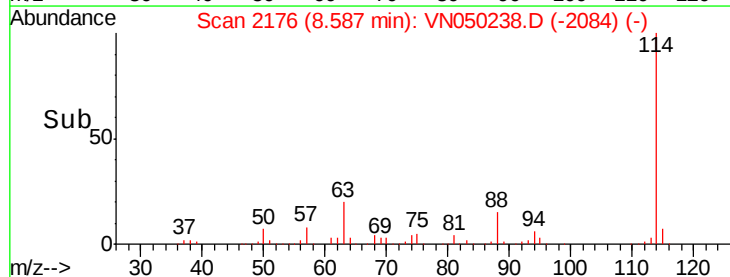
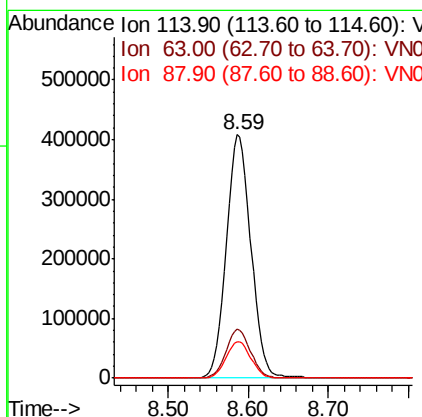
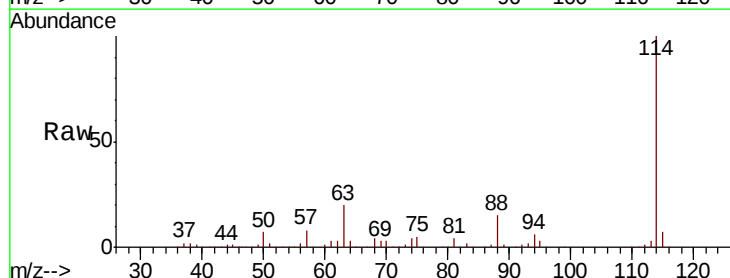
Manual Integrations
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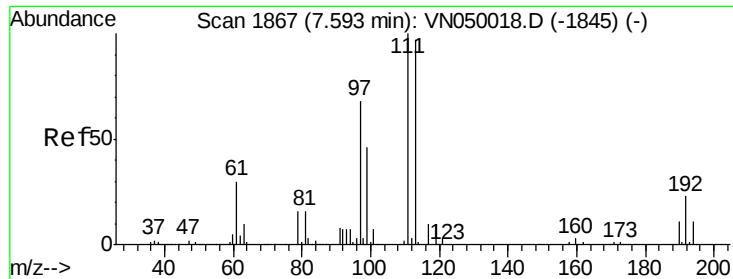
MMDadoda
 8/2/2018 9:53:45 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. -0.00 min
 Lab File: VN050238.D
 Acq: 1 Aug 2018 10:35

Tgt Ion: 114 Resp: 858579
 Ion Ratio Lower Upper
 114 100
 63 20.2 0.0 40.0
 88 15.1 0.0 31.2





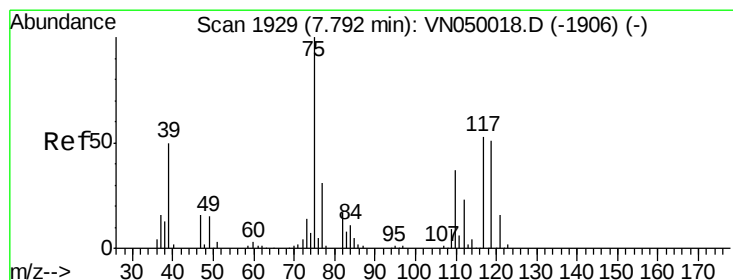
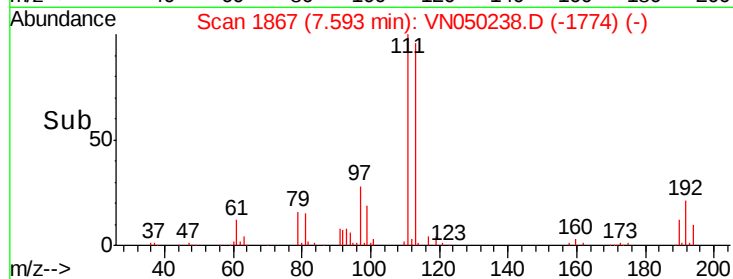
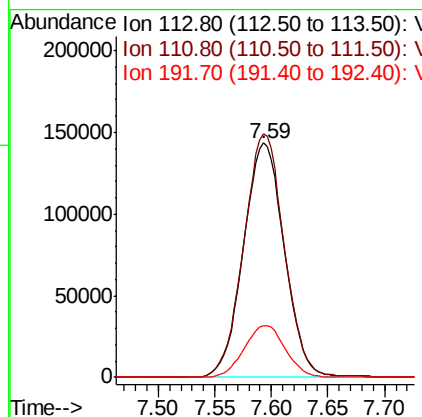
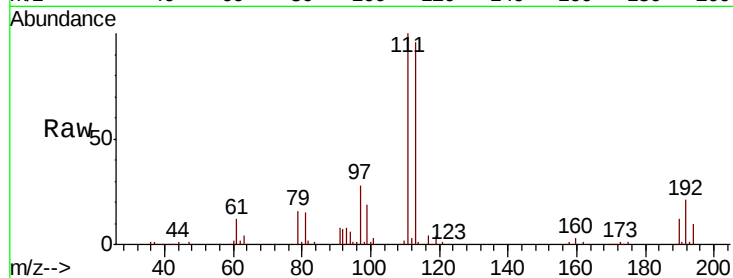
#35
Dibromofluoromethane
Concen: 51.399 ug/l
RT: 7.59 min Scan# 1867
Delta R.T. 0.00 min
Lab File: VN050238.D
Acq: 1 Aug 2018 10:35

Instrument :
MSVOA_N
ClientSampleId :
VN0801WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	360311		
111	103.1	80.7	121.1	
192	22.4	17.8	26.6	

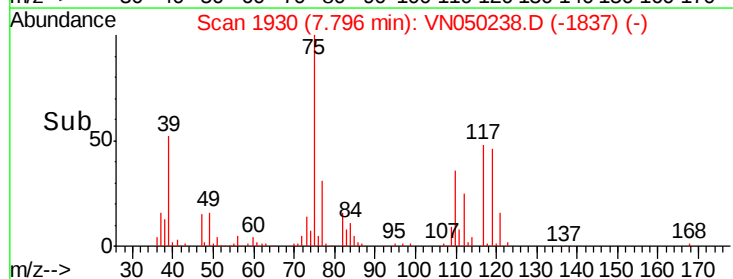
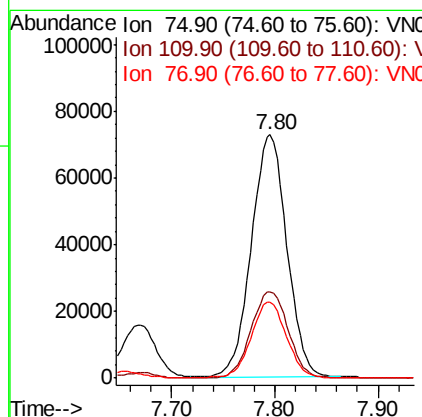
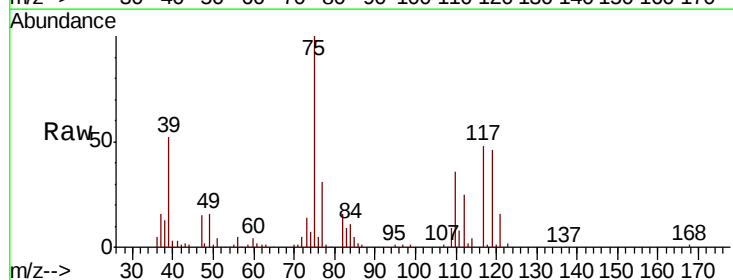
Manual Integrations
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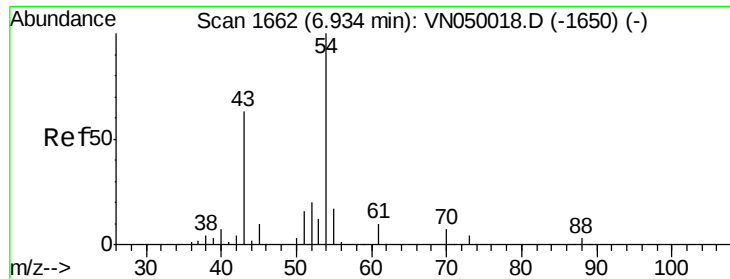
MMDadoda
8/2/2018 9:53:45 AM



#36
1,1-Dichloropropene
Concen: 17.987 ug/l
RT: 7.80 min Scan# 1930
Delta R.T. 0.00 min
Lab File: VN050238.D
Acq: 1 Aug 2018 10:35

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	173986		
110	37.2	18.4	55.2	
77	31.4	25.3	37.9	





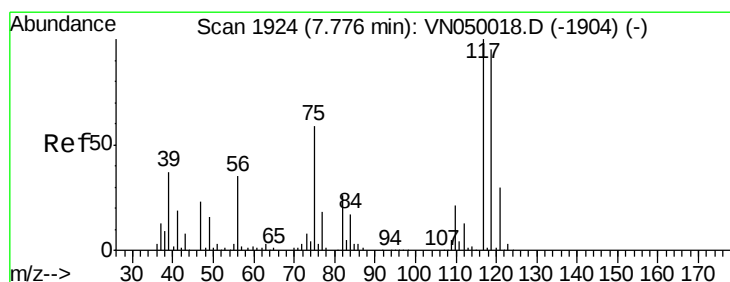
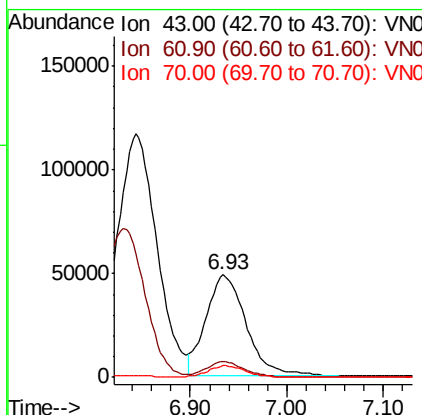
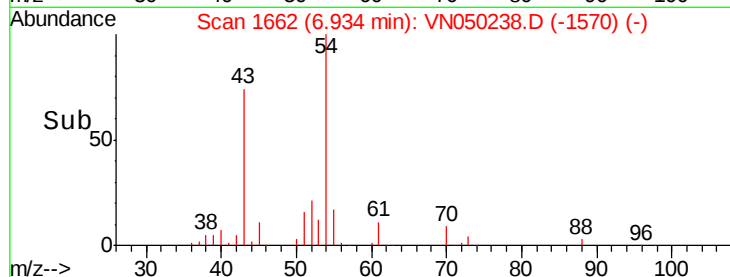
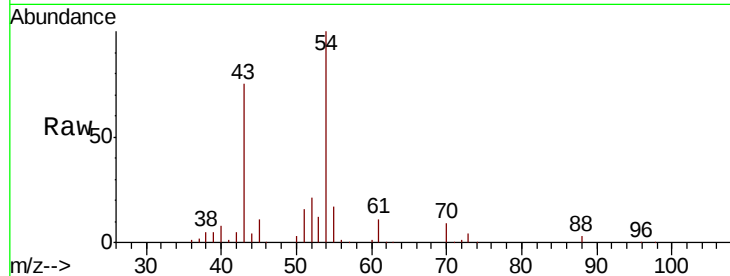
#37
Ethyl Acetate
Concen: 20.939 ug/l
RT: 6.93 min Scan# 1662
Delta R.T. -0.00 min
Lab File: VN050238.D
Acq: 1 Aug 2018 10:35

Instrument :
MSVOA_N
ClientSampled :
VN0801WBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
61	13.8	11.8	17.8
70	10.9	8.4	12.6

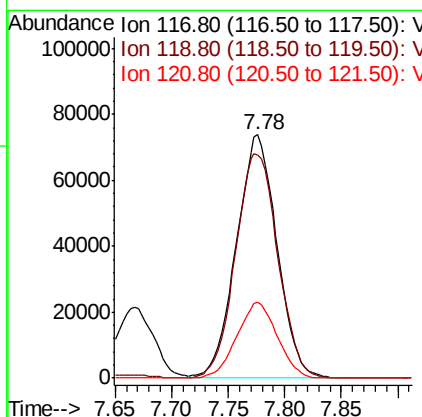
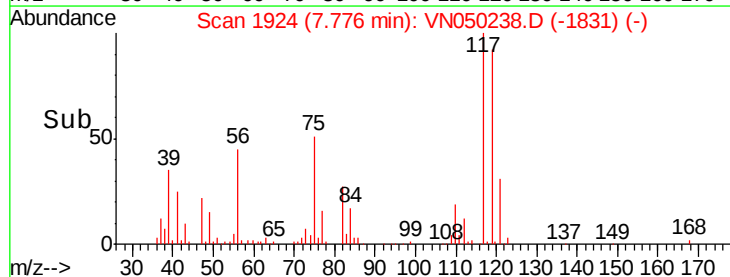
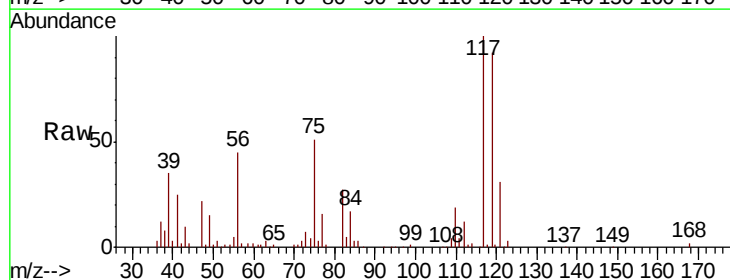
Manual Integrations
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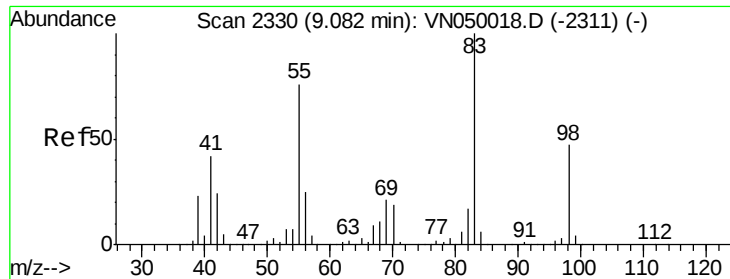
MMDadoda
8/2/2018 9:53:45 AM



#38
Carbon Tetrachloride
Concen: 17.860 ug/l
RT: 7.78 min Scan# 1924
Delta R.T. 0.00 min
Lab File: VN050238.D
Acq: 1 Aug 2018 10:35

Tgt Ion	Ratio	Lower	Upper
117	100		
119	91.8	77.4	116.0
121	31.5	23.9	35.9





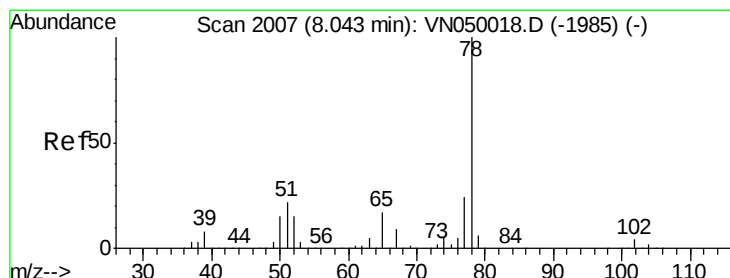
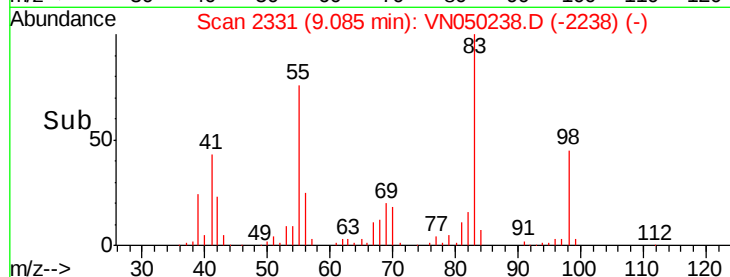
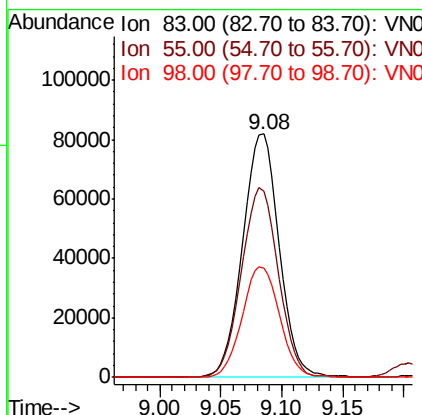
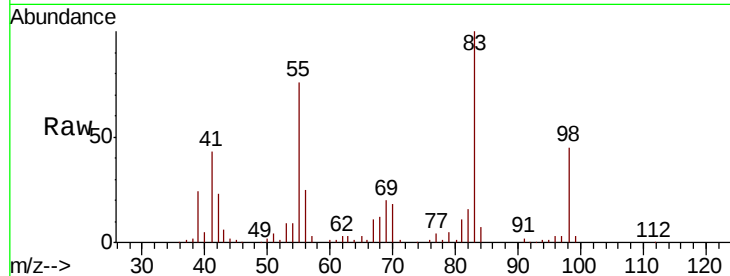
#39
Methvlcvclohexane
Concen: 17.028 ug/l
RT: 9.08 min Scan# 2331
Delta R.T. 0.00 min
Lab File: VN050238.D
Acq: 1 Aug 2018 10:35

Instrument :
MSVOA_N
ClientSampleId :
VN0801WBSD01

Tot Ion	83.00	Resp	169442
Ion Ratio	100	Lower	Upper
83	100		
55	76.5	61.8	92.8
98	44.7	36.5	54.7

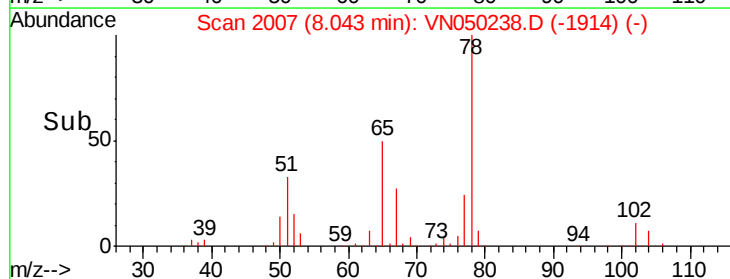
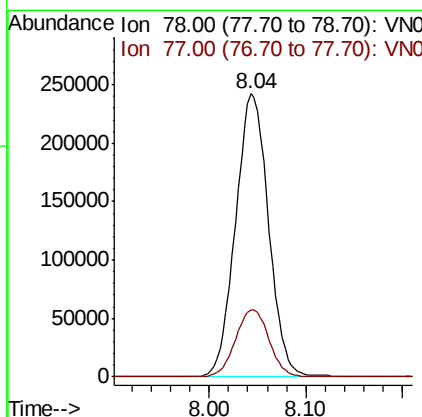
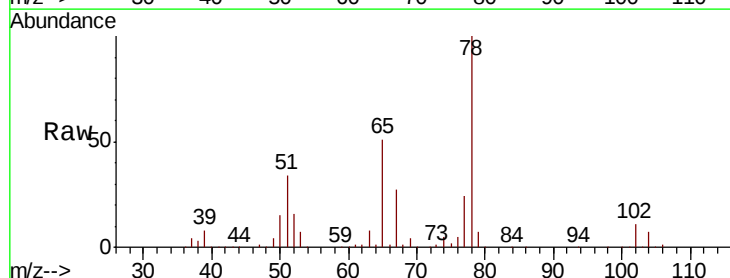
Manual Integrations
APPROVED

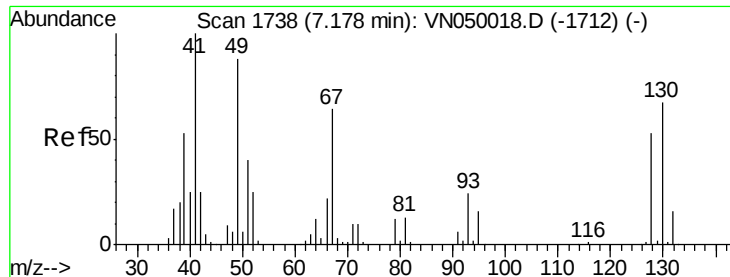
MMDadoda
8/2/2018 9:53:45 AM



#40
Benzene
Concen: 19.477 ug/l
RT: 8.04 min Scan# 2007
Delta R.T. 0.00 min
Lab File: VN050238.D
Acq: 1 Aug 2018 10:35

Tgt Ion	78.00	Resp	573295
Ion Ratio	100	Lower	Upper
78	100		
77	23.7	18.7	28.1





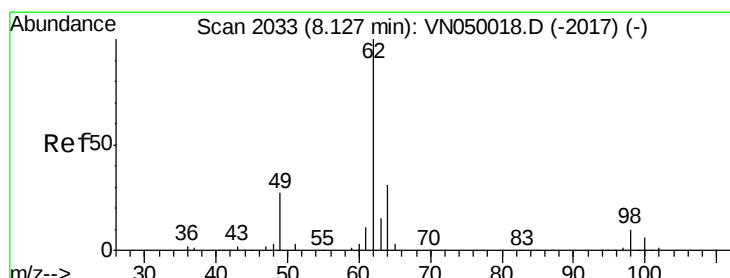
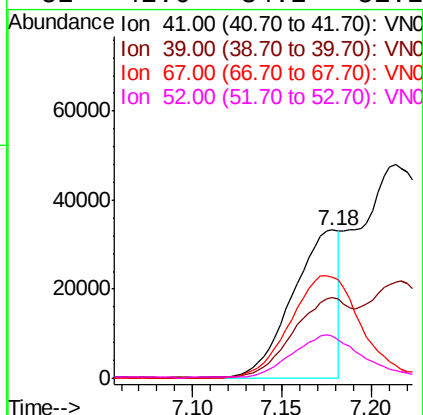
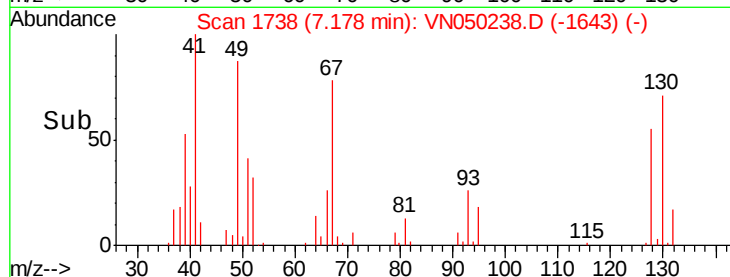
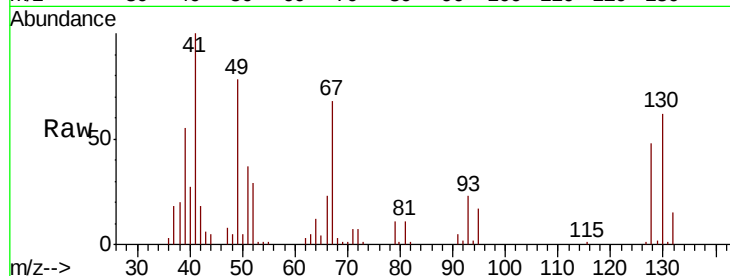
#41
Methacrylonitrile
Concen: 18.827 ug/l
RT: 7.18 min Scan# 1738
Delta R.T. 0.00 min
Lab File: VN050238.D
Acq: 1 Aug 2018 10:35

Instrument :
MSVOA_N
ClientSampled :
VN0801WBSD01

Tot Ion	41	Resp	59763
Ion	Ratio	Lower	Upper
41	100		
39	69.7	55.8	83.6
67	106.1	84.3	126.5
52	42.6	34.2	51.2

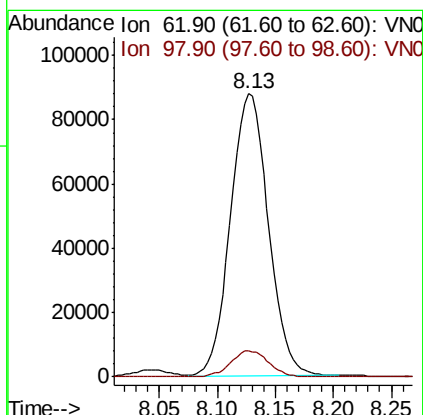
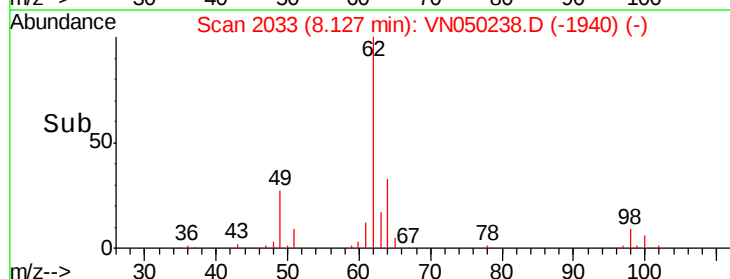
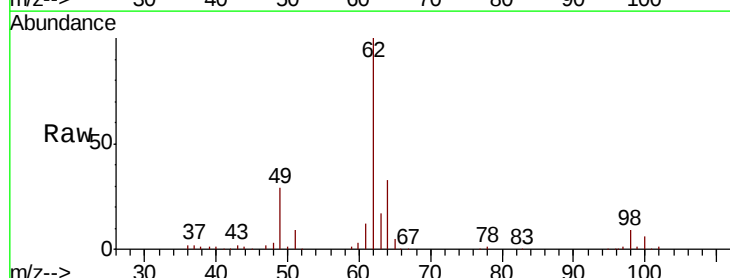
Manual Integrations
APPROVED

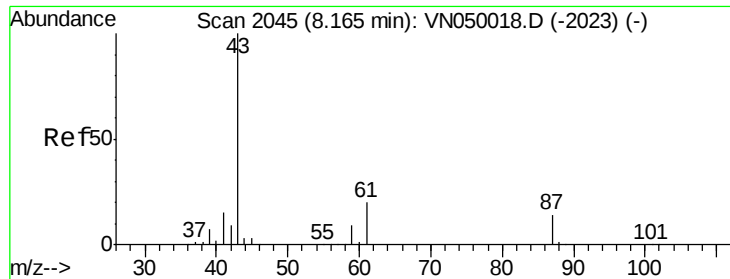
MMDadoda
8/2/2018 9:53:45 AM



#42
1,2-Dichloroethane
Concen: 20.364 ug/l
RT: 8.13 min Scan# 2033
Delta R.T. 0.00 min
Lab File: VN050238.D
Acq: 1 Aug 2018 10:35

Tgt Ion	62	Resp	199972
Ion	Ratio	Lower	Upper
62	100		
98	9.2	0.0	18.8





#43

Isopropyl Acetate

Concen: 21.689 ug/l

RT: 8.17 min Scan# 2046

Delta R.T. 0.00 min

Lab File: VN050238.D

Acq: 1 Aug 2018 10:35

Instrument :

MSVOA_N

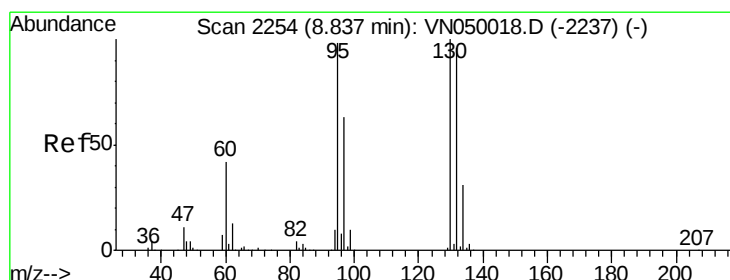
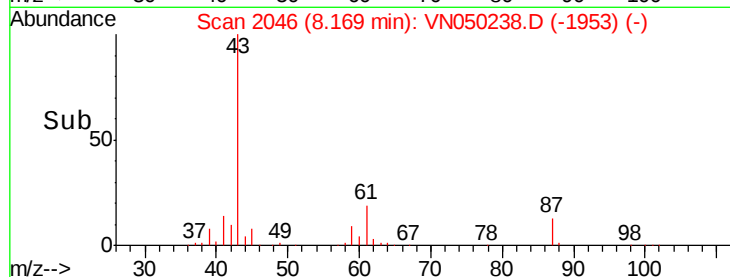
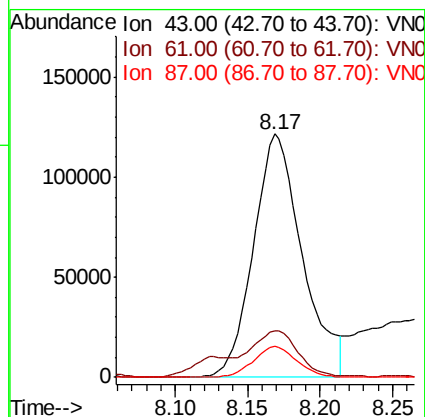
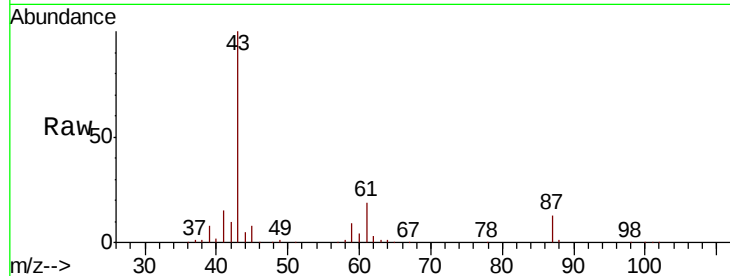
ClientSampleId :

VN0801WBSD01

Tot Ion:	43	Resp:	283847
Ion	Ratio	Lower	Upper
43	100		
61	17.7	15.8	23.6
87	11.5	10.3	15.5

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#44

Trichloroethene

Concen: 18.449 ug/l

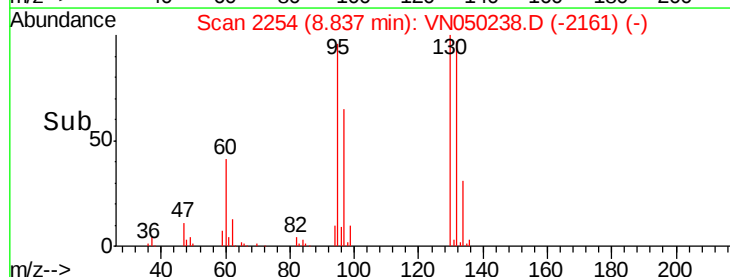
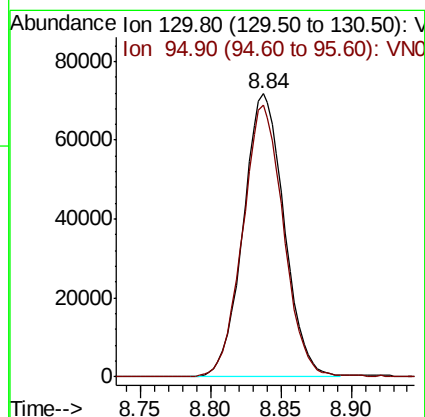
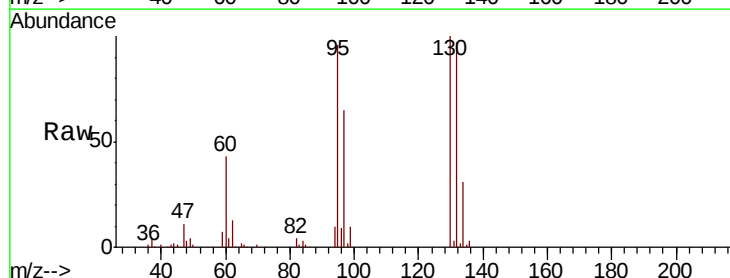
RT: 8.84 min Scan# 2254

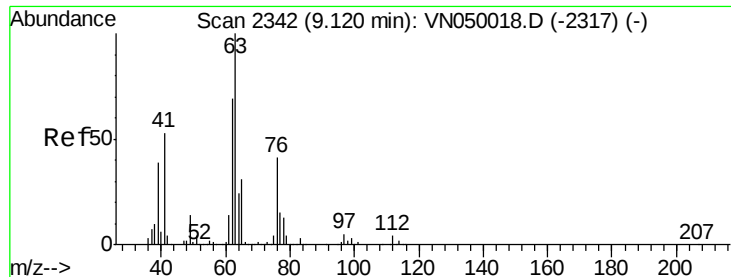
Delta R.T. 0.00 min

Lab File: VN050238.D

Acq: 1 Aug 2018 10:35

Tgt Ion:	130	Resp:	145921
Ion	Ratio	Lower	Upper
130	100		
95	96.1	0.0	194.6





#45

1,2-Dichloropropane

Concen: 20.400 ug/l

RT: 9.12 min Scan# 2342

Delta R.T. 0.00 min

Lab File: VN050238.D

Acq: 1 Aug 2018 10:35

Instrument :

MSVOA_N

ClientSampleId :

VN0801WBSD01

Tot Ion: 63 Resp: 159047

Ion Ratio Lower Upper

63 100

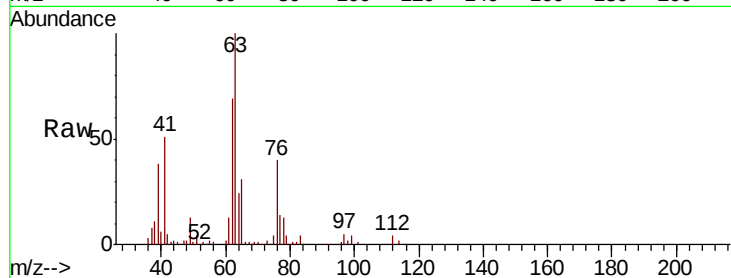
65 31.0 25.5 38.3

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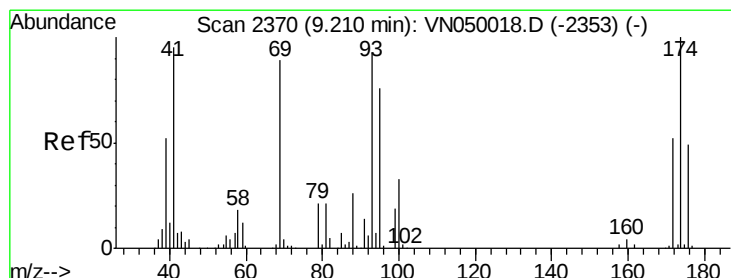
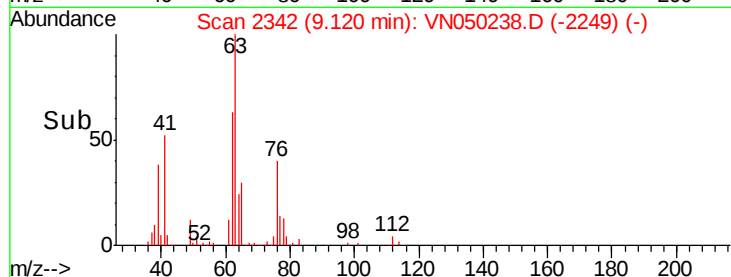
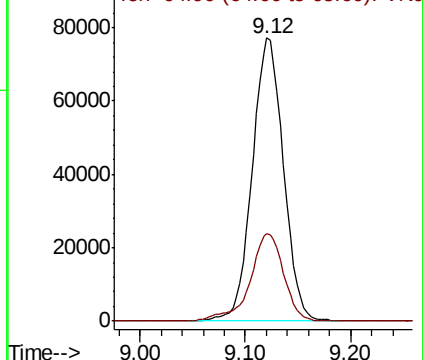
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Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0



#46

Dibromomethane

Concen: 20.603 ug/l

RT: 9.21 min Scan# 2370

Delta R.T. 0.00 min

Lab File: VN050238.D

Acq: 1 Aug 2018 10:35

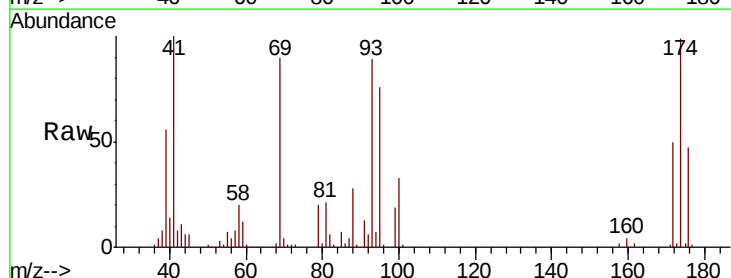
Tgt Ion: 93 Resp: 99738

Ion Ratio Lower Upper

93 100

95 84.9 66.6 100.0

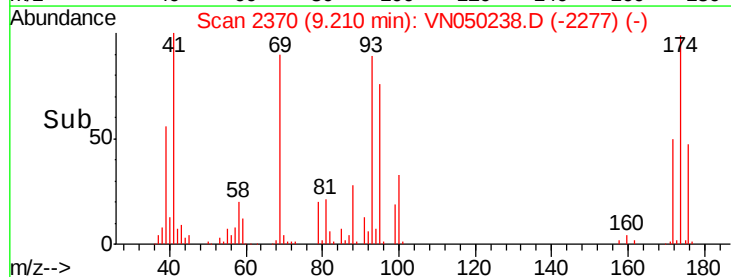
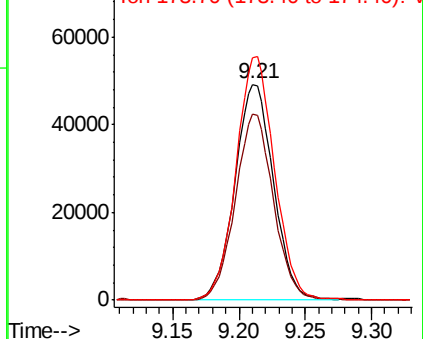
174 112.3 87.1 130.7

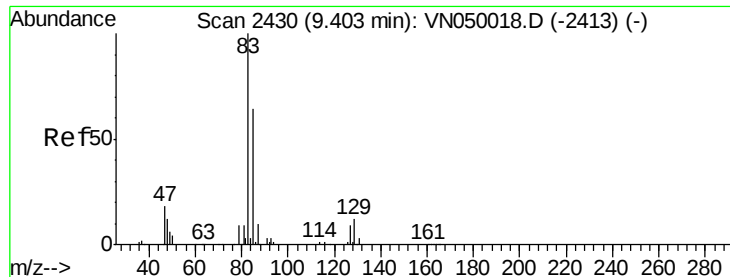


Abundance Ion 92.80 (92.50 to 93.50): VN0

Ion 94.80 (94.50 to 95.50): VN0

Ion 173.70 (173.40 to 174.40): V





#47

Bromodichloromethane

Concen: 20.211 ug/l

RT: 9.41 min Scan# 2431

Delta R.T. 0.00 min

Lab File: VN050238.D

Acq: 1 Aug 2018 10:35

Instrument :

MSVOA_N

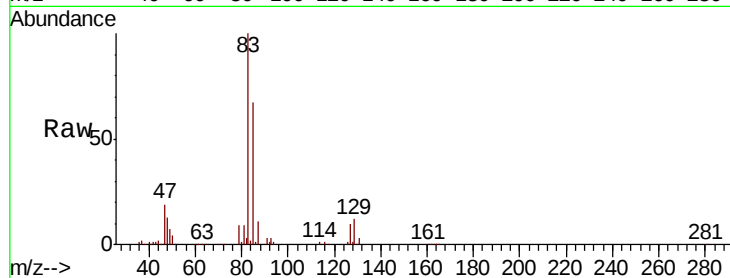
ClientSampleId :

VN0801WBSD01

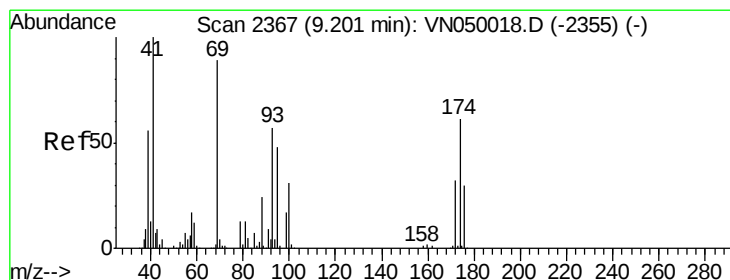
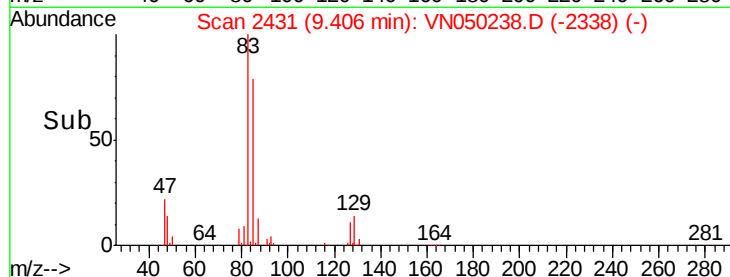
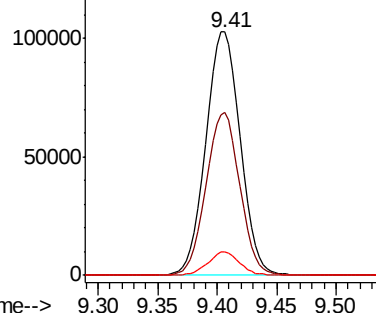
Tot Ion:	83	Resp:	206505
Ion Ratio	Lower	Upper	
83	100		
85	67.1	51.1	76.7
127	9.6	7.0	10.4

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Abundance Ion 82.90 (82.60 to 83.60): VNO
Ion 84.90 (84.60 to 85.60): VNO
Ion 126.80 (126.50 to 127.50): VNO



#48

Methyl methacrylate

Concen: 21.575 ug/l

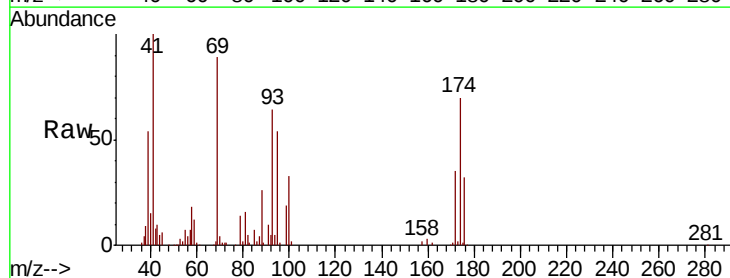
RT: 9.20 min Scan# 2368

Delta R.T. 0.00 min

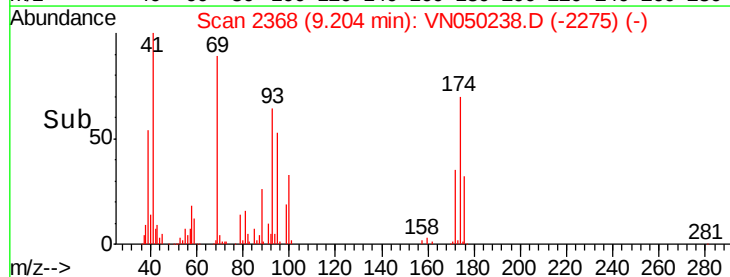
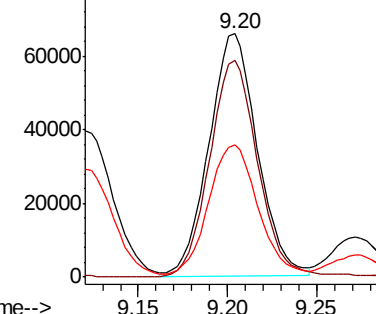
Lab File: VN050238.D

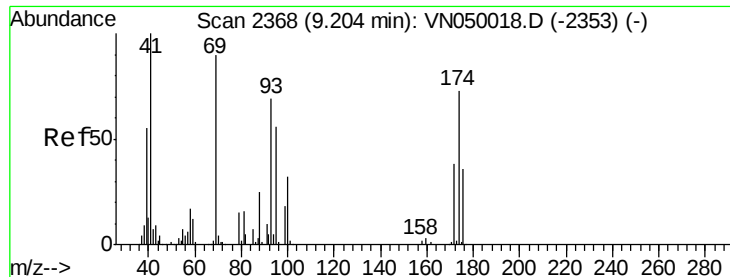
Acq: 1 Aug 2018 10:35

Tgt Ion:	41	Resp:	125315
Ion Ratio	Lower	Upper	
41	100		
69	89.4	70.6	105.8
39	56.0	43.9	65.9



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





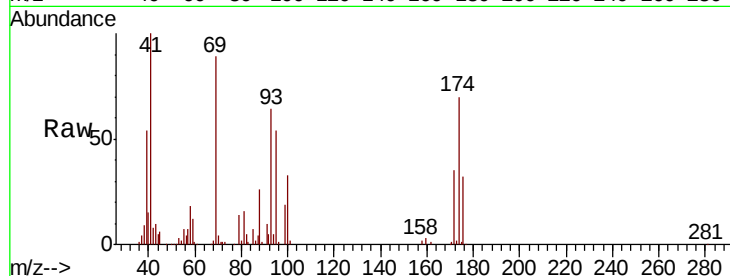
#49
1,4-Dioxane
Concen: 462.225 ug/l
RT: 9.20 min Scan# 2368
Delta R.T. 0.00 min
Lab File: VN050238.D
Acq: 1 Aug 2018 10:35

Instrument :
MSVOA_N
ClientSampleId :
VN0801WBSD01

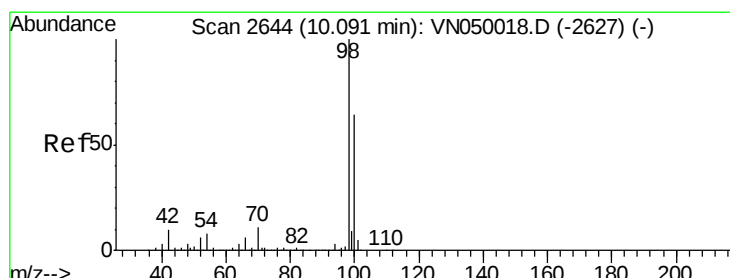
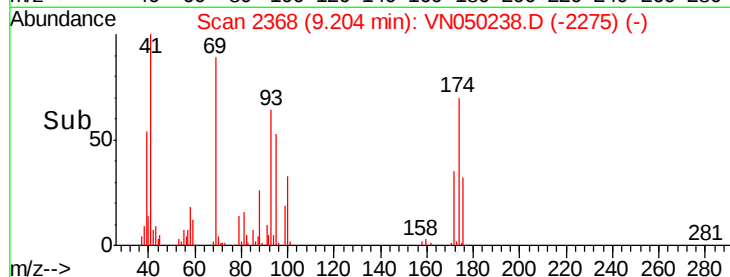
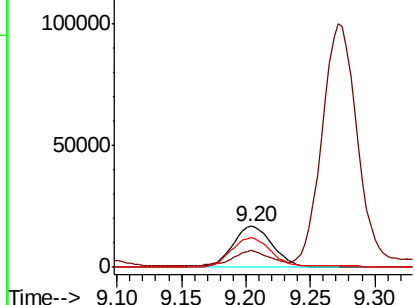
Tot Ion	Ratio	Lower	Upper
88	100		
43	33.0	26.9	40.3
58	72.2	57.3	85.9

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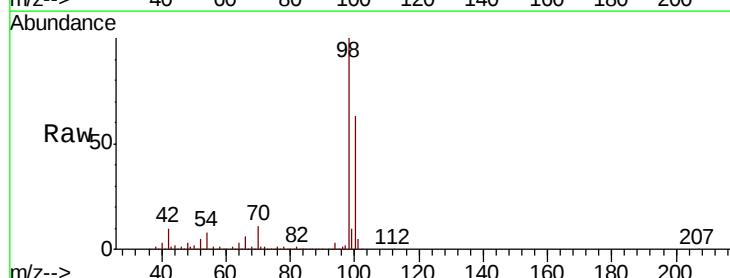


Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0

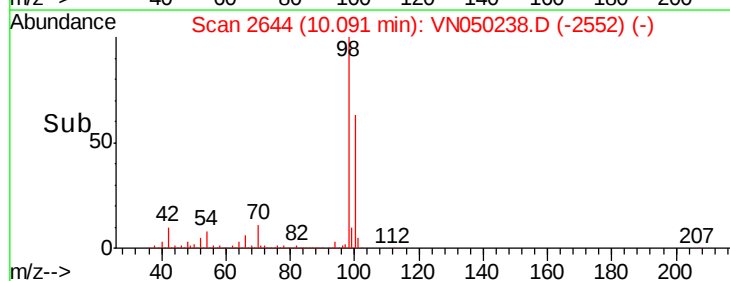
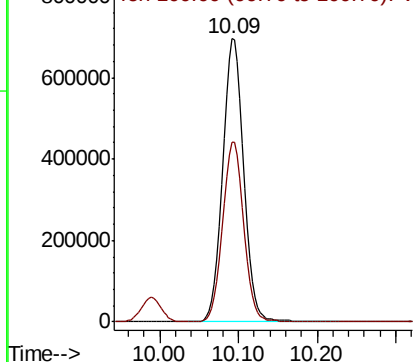


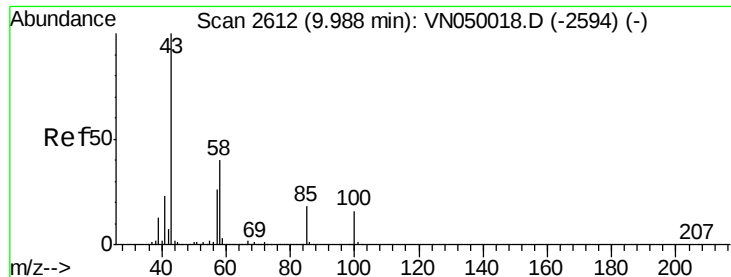
#50
Toluene-d8
Concen: 49.612 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. -0.00 min
Lab File: VN050238.D
Acq: 1 Aug 2018 10:35

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.1	50.7	76.1



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





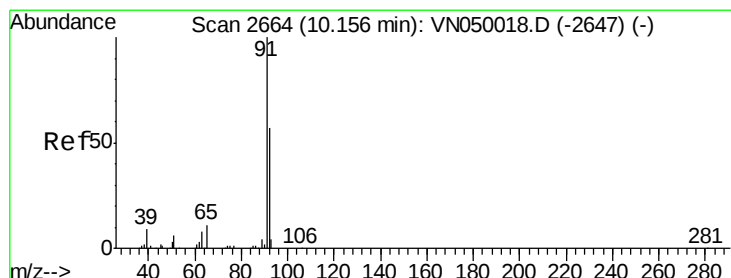
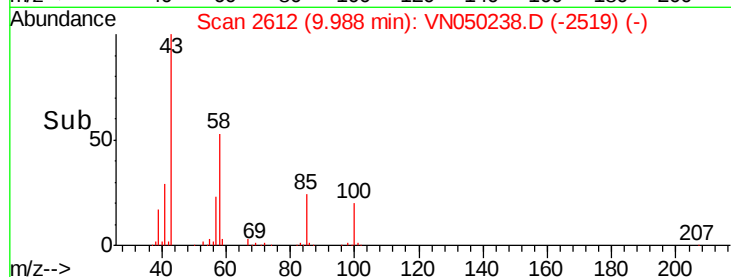
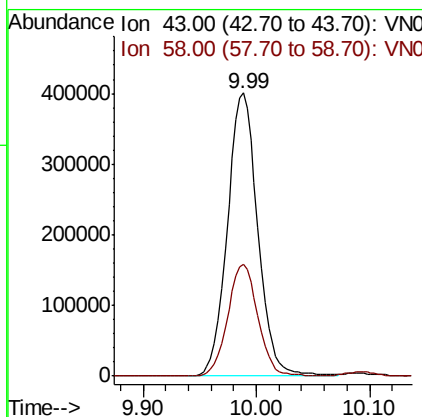
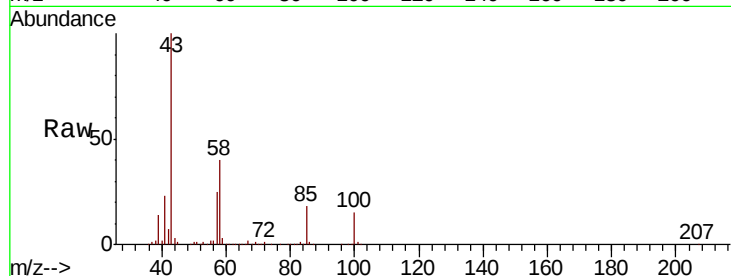
#51
4-Methyl-2-Pentanone
Concen: 112.354 ug/l
RT: 9.99 min Scan# 2612
Delta R.T. 0.00 min
Lab File: VN050238.D
Acq: 1 Aug 2018 10:35

Instrument :
MSVOA_N
ClientSampleId :
VN0801WBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
58	39.4	31.9	47.9

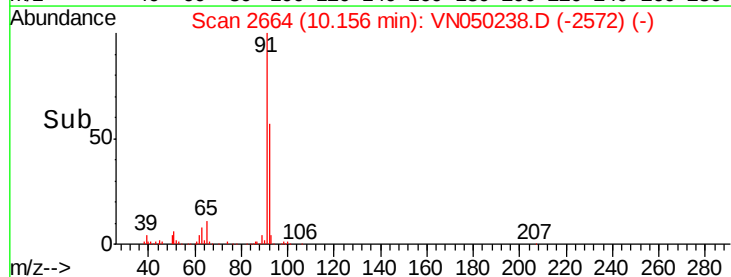
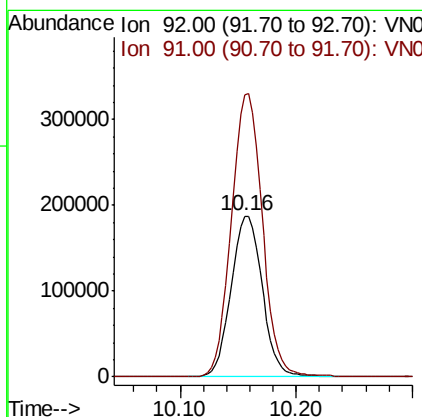
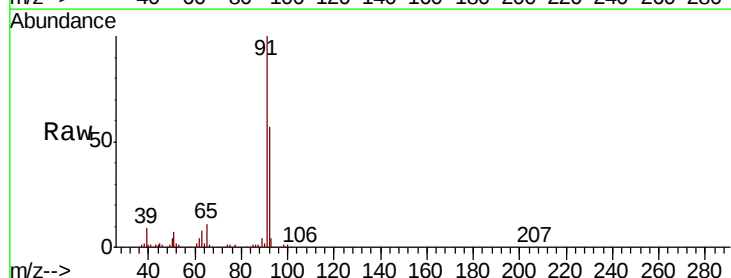
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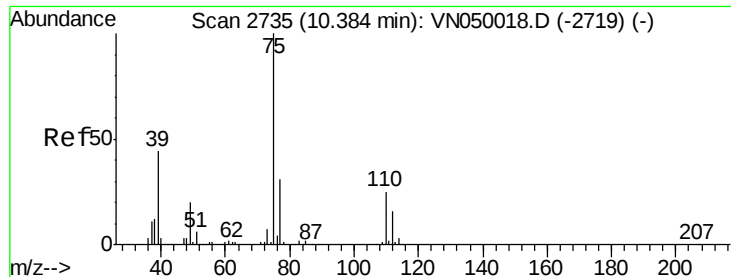
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#52
Toluene
Concen: 20.117 ug/l
RT: 10.16 min Scan# 2664
Delta R.T. -0.00 min
Lab File: VN050238.D
Acq: 1 Aug 2018 10:35

Tgt Ion	Ratio	Lower	Upper
92	100		
91	175.4	140.3	210.5





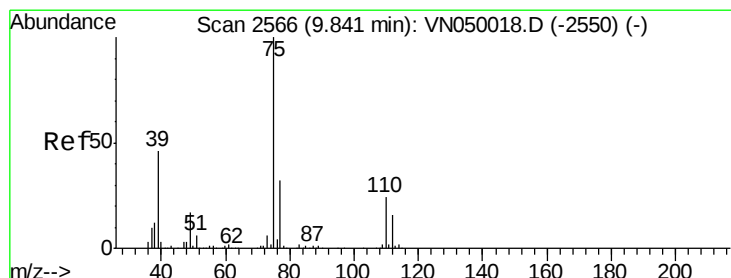
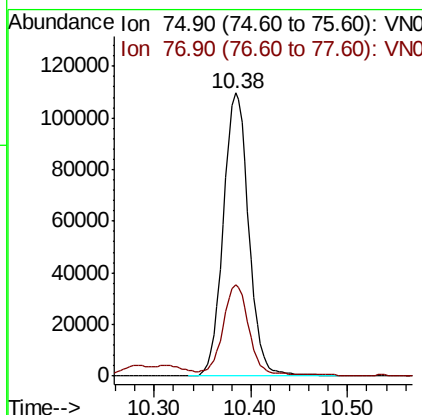
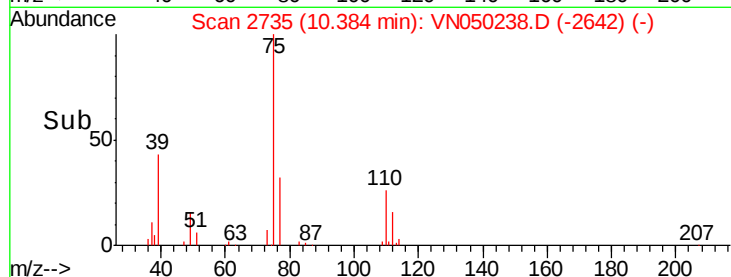
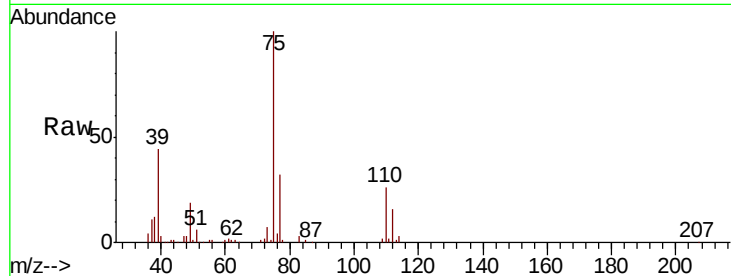
#53
t-1,3-Dichloropropene
Concen: 20.821 ug/l
RT: 10.38 min Scan# 2735
Delta R.T. 0.00 min
Lab File: VN050238.D
Acq: 1 Aug 2018 10:35

Instrument :
MSVOA_N
ClientSampleId :
VN0801WBSD01

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.9	24.9	37.3

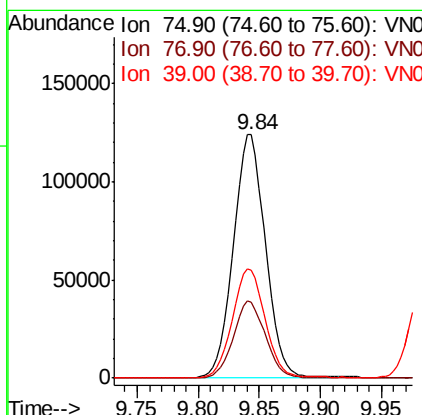
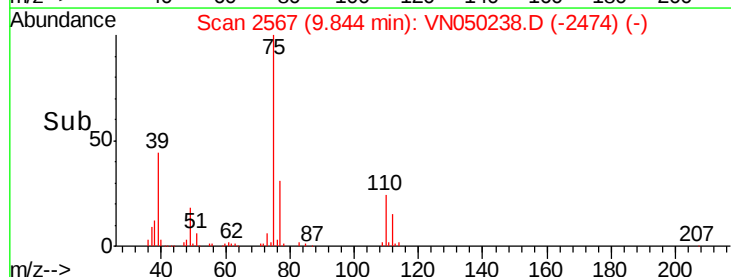
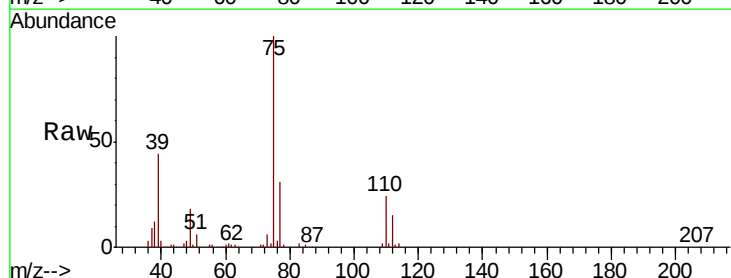
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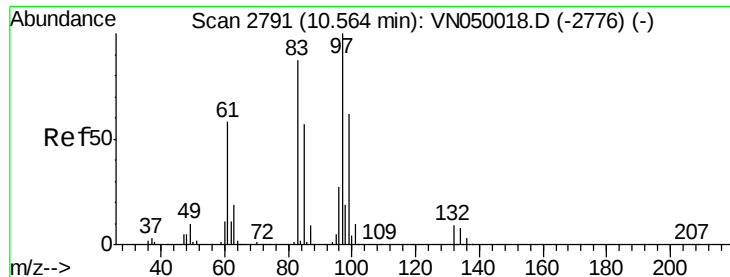
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#54
cis-1,3-Dichloropropene
Concen: 20.581 ug/l
RT: 9.84 min Scan# 2567
Delta R.T. 0.00 min
Lab File: VN050238.D
Acq: 1 Aug 2018 10:35

Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.0	25.5	38.3
39	44.1	36.6	55.0





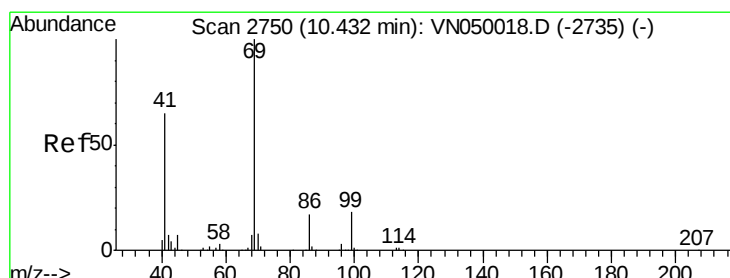
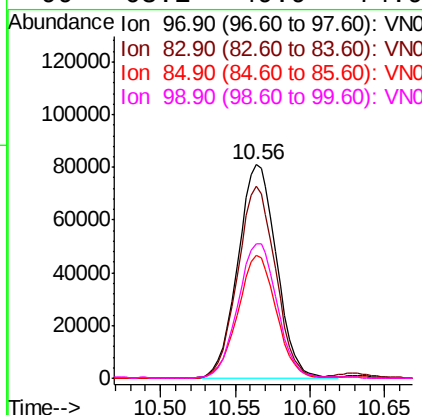
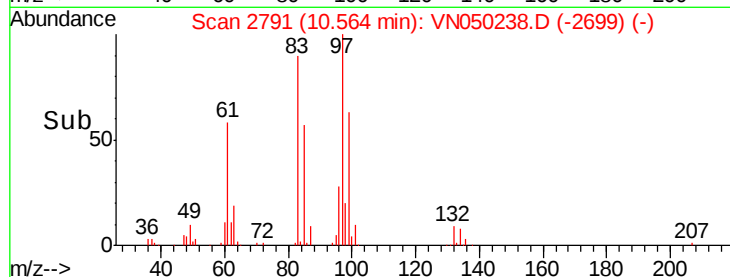
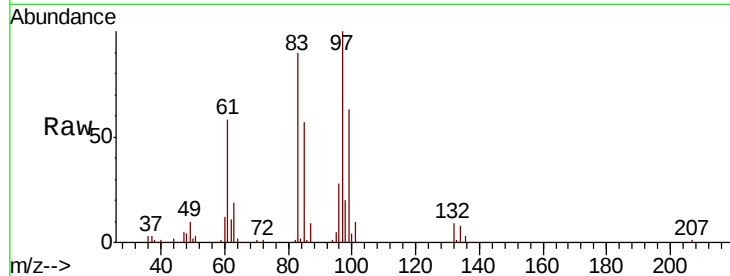
#55
 1,1,2-Trichloroethane
 Concen: 21.179 ug/l
 RT: 10.56 min Scan# 2791
 Delta R.T. -0.00 min
 Lab File: VN050238.D
 Acq: 1 Aug 2018 10:35

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0801WBSD01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		145960		
83	89.6	69.2	103.8		
85	57.5	44.0	66.0		
99	63.1	49.9	74.9		

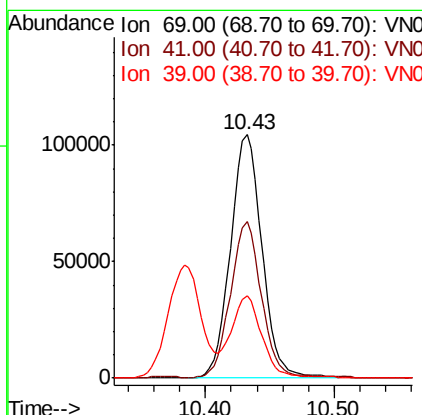
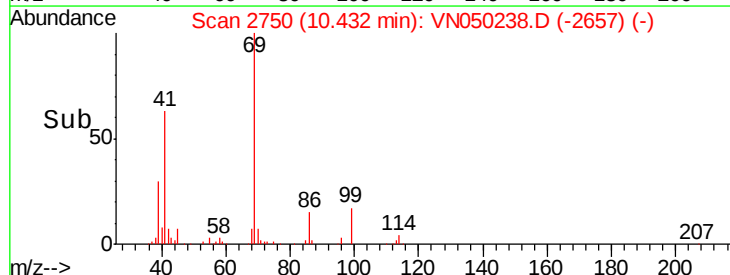
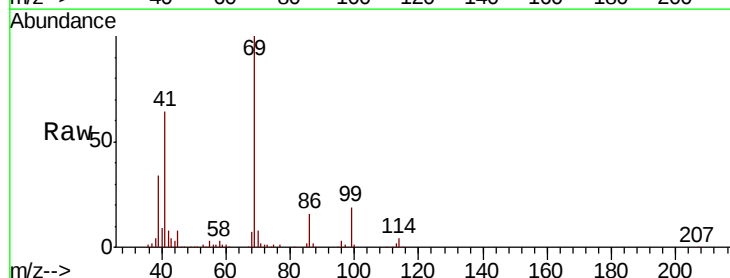
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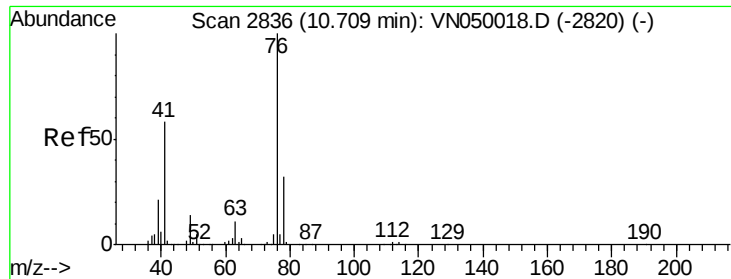
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#56
 Ethyl methacrylate
 Concen: 20.280 ug/l
 RT: 10.43 min Scan# 2750
 Delta R.T. 0.00 min
 Lab File: VN050238.D
 Acq: 1 Aug 2018 10:35

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		177582		
41	62.5	51.0	76.4		
39	31.7	26.6	40.0		





#57

1,3-Dichloropropane

Concen: 21.377 ug/l

RT: 10.71 min Scan# 2836

Delta R.T. 0.00 min

Lab File: VN050238.D

Acq: 1 Aug 2018 10:35

Instrument :

MSVOA_N

ClientSampleId :

VN0801WBSD01

Tot Ion: 76 Resp: 239904

Ion Ratio Lower Upper

76 100

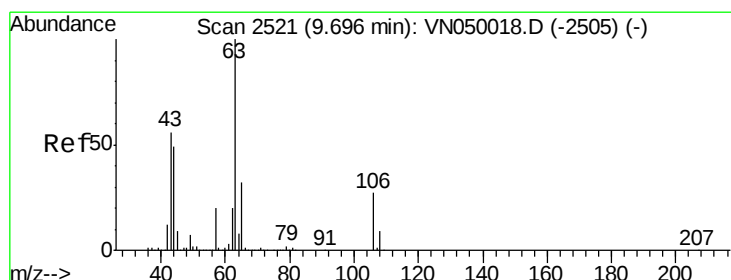
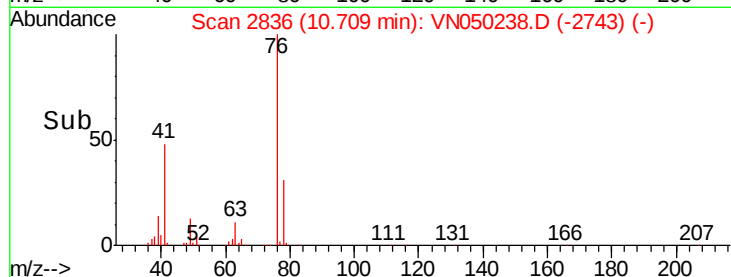
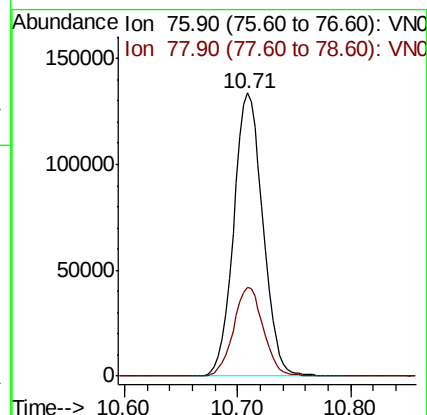
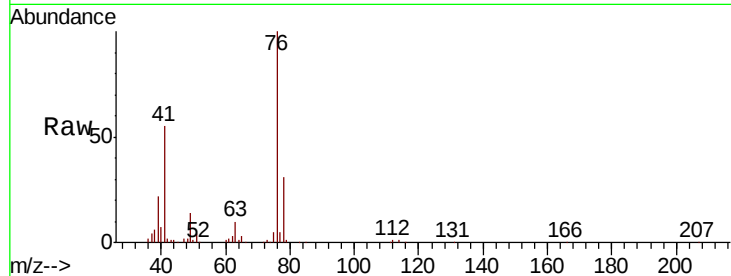
78 32.2 25.7 38.5

Manual Integrations

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8/2/2018 9:53:45 AM



#58

2-Chloroethyl Vinyl ether

Concen: 92.208 ug/l

RT: 9.70 min Scan# 2522

Delta R.T. 0.00 min

Lab File: VN050238.D

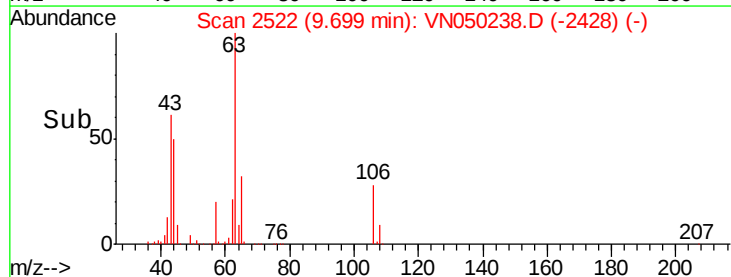
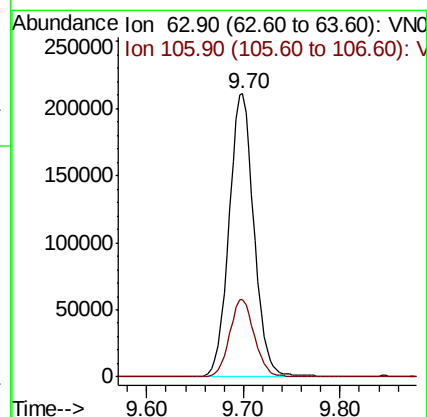
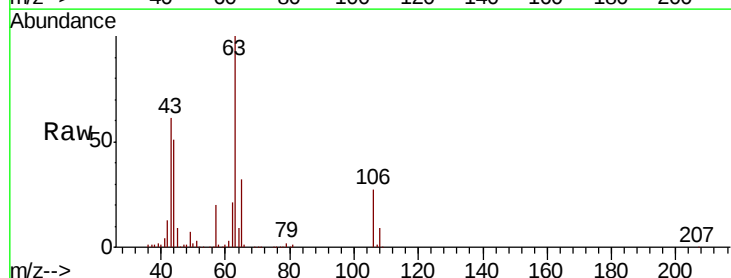
Acq: 1 Aug 2018 10:35

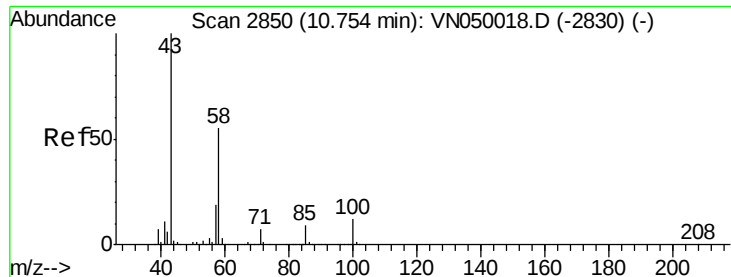
Tgt Ion: 63 Resp: 377876

Ion Ratio Lower Upper

63 100

106 27.2 21.7 32.5





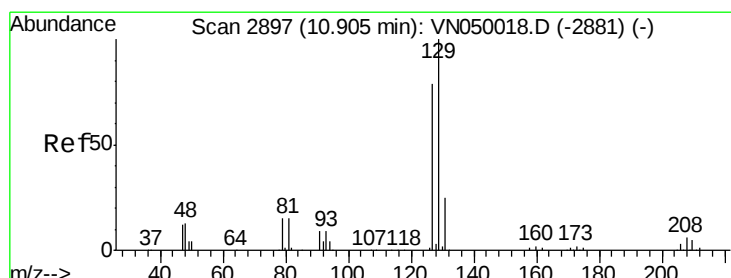
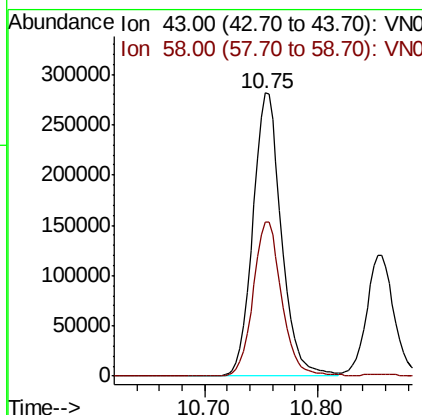
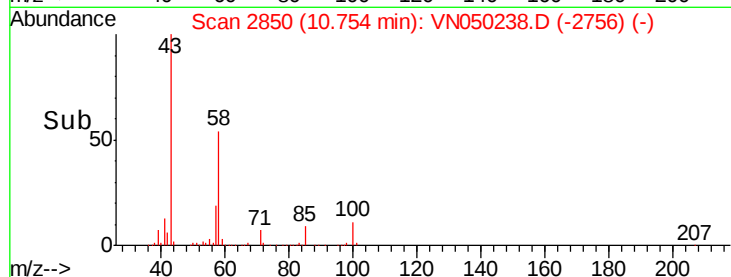
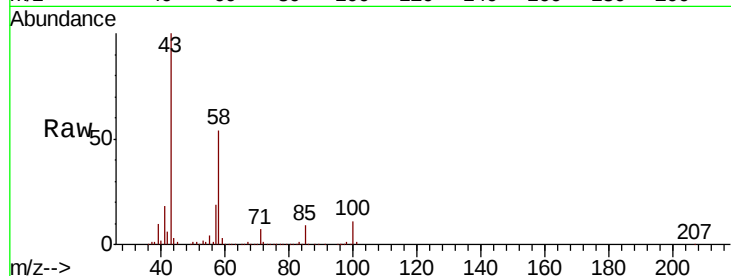
#59
2-Hexanone
Concen: 103.774 ug/l
RT: 10.75 min Scan# 2850
Delta R.T. 0.00 min
Lab File: VN050238.D
Acq: 1 Aug 2018 10:35

Instrument :
MSVOA_N
ClientSampleId :
VN0801WBSD01

Tot Ion: 43 Resp: 490498
Ion Ratio Lower Upper
43 100
58 55.0 27.6 82.7

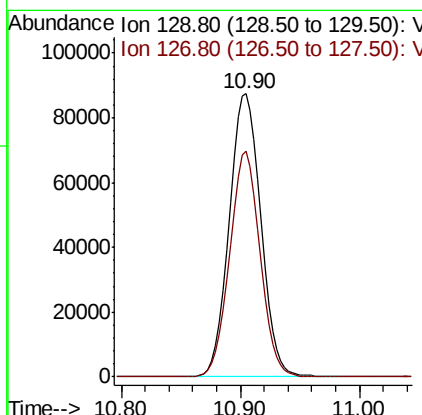
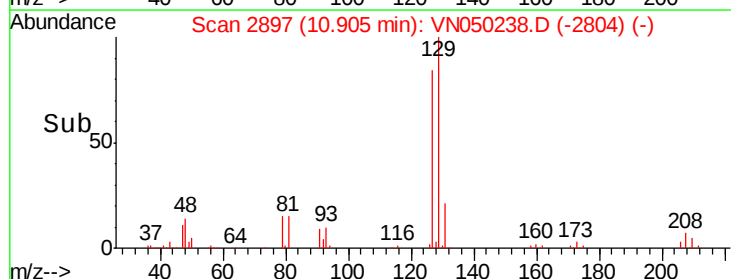
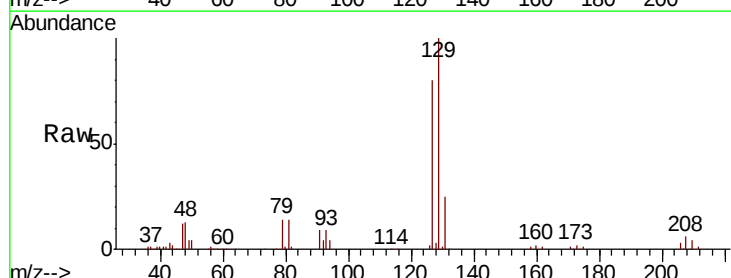
Manual Integrations
APPROVED

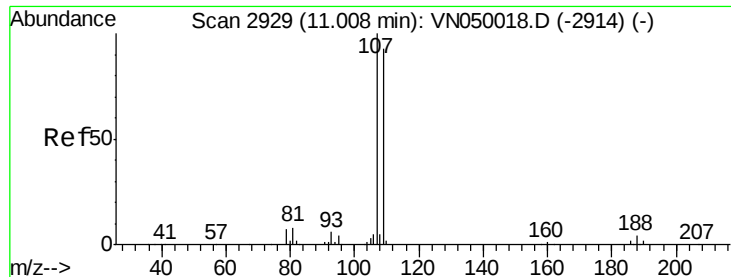
MMDadoda
8/2/2018 9:53:45 AM



#60
Dibromochloromethane
Concen: 21.090 ug/l
RT: 10.90 min Scan# 2897
Delta R.T. 0.00 min
Lab File: VN050238.D
Acq: 1 Aug 2018 10:35

Tgt Ion: 129 Resp: 160921
Ion Ratio Lower Upper
129 100
127 76.7 38.0 113.9





#61

1,2-Dibromoethane

Concen: 20.464 ug/l

RT: 11.01 min Scan# 2929

Delta R.T. 0.00 min

Lab File: VN050238.D

Acq: 1 Aug 2018 10:35

Instrument :

MSVOA_N

ClientSampleId :

VN0801WBSD01

Tot Ion: 107 Resp: 139928

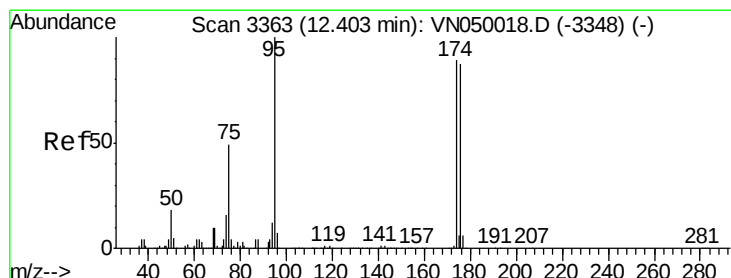
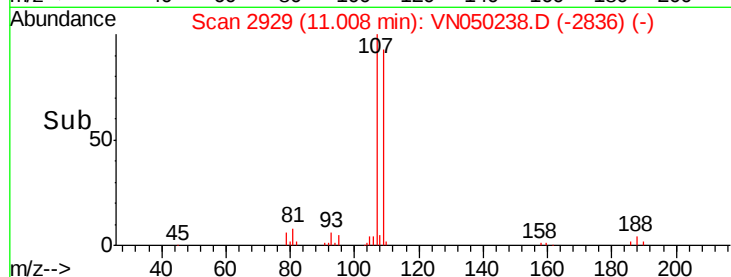
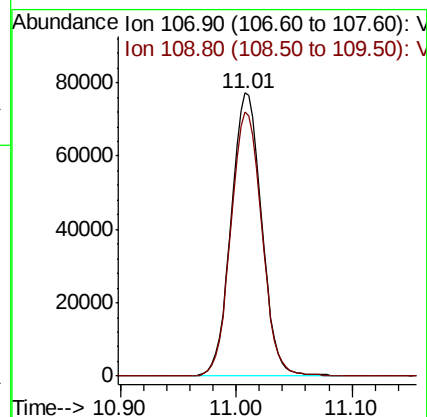
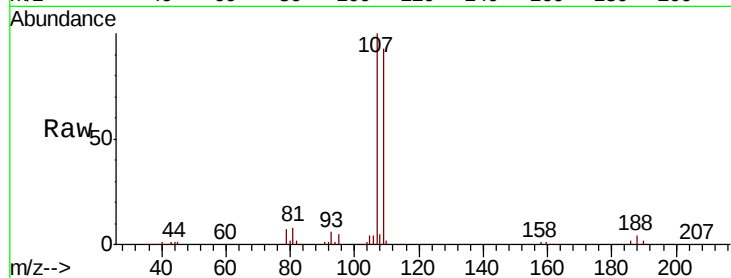
Ion Ratio Lower Upper

107 100

109 94.8 74.6 112.0

Manual Integrations
APPROVED

MMDadoda
8/2/2018 9:53:45 AM



#62

4-Bromofluorobenzene

Concen: 49.725 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050238.D

Acq: 1 Aug 2018 10:35

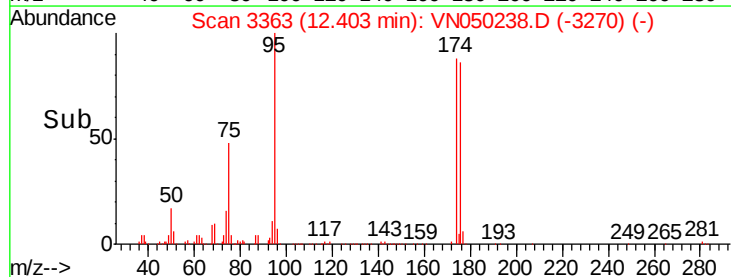
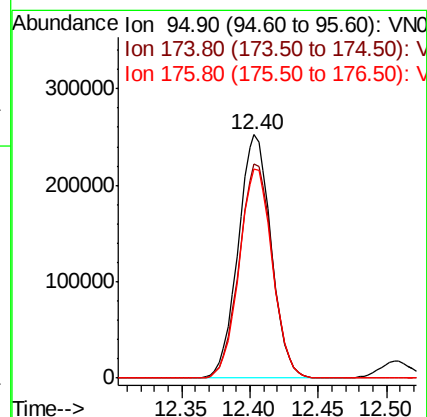
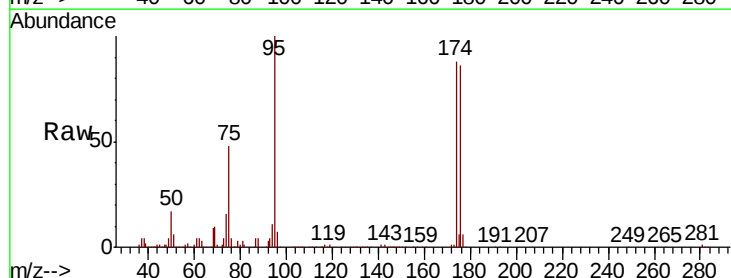
Tgt Ion: 95 Resp: 421971

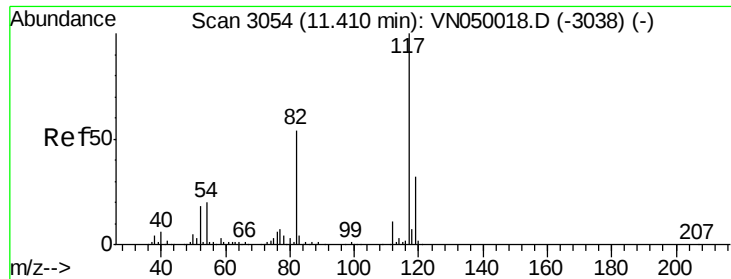
Ion Ratio Lower Upper

95 100

174 89.2 0.0 178.2

176 86.5 0.0 173.4





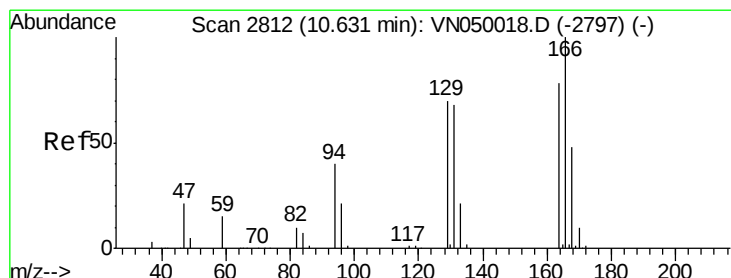
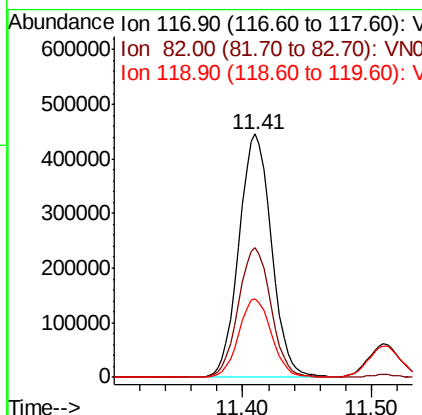
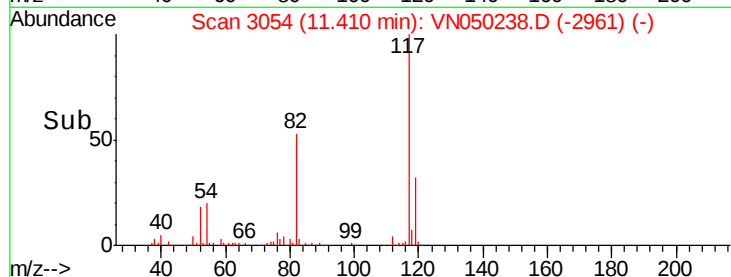
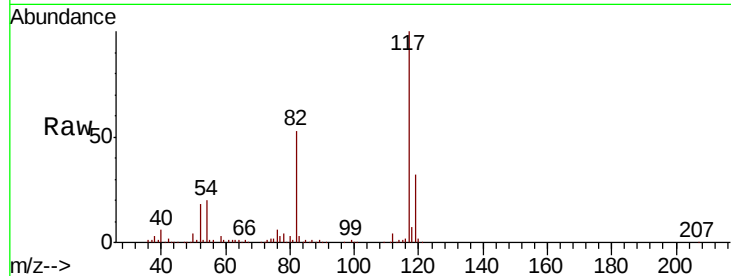
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050238.D
Acq: 1 Aug 2018 10:35

Instrument :
MSVOA_N
ClientSampleId :
VN0801WBSD01

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.1	43.7	65.5
119	32.3	26.1	39.1

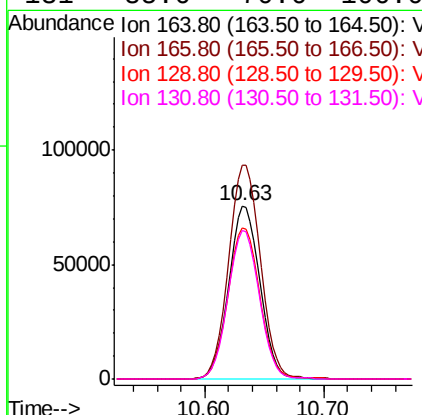
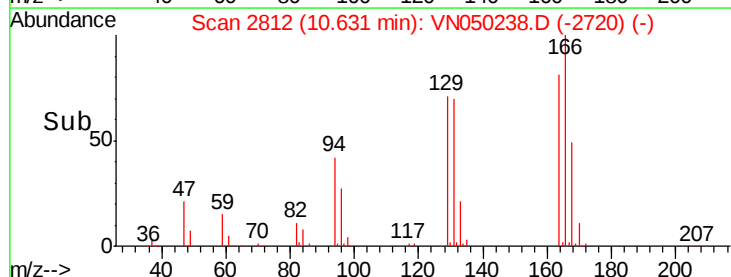
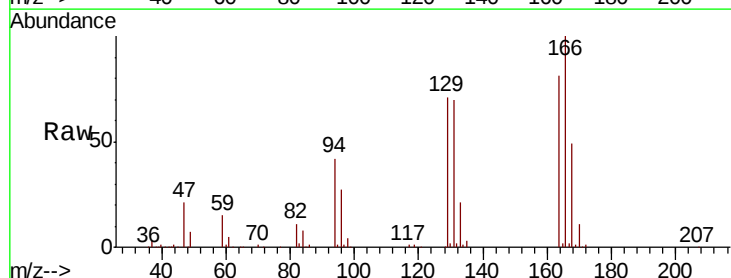
Manual Integrations
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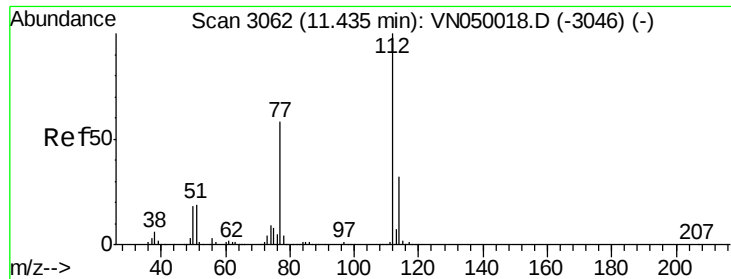
MMDadoda
8/2/2018 9:53:45 AM



#64
Tetrachloroethene
Concen: 18.225 ug/l
RT: 10.63 min Scan# 2812
Delta R.T. -0.00 min
Lab File: VN050238.D
Acq: 1 Aug 2018 10:35

Tgt Ion	Ratio	Lower	Upper
164	100		
166	123.2	102.1	153.1
129	87.0	73.2	109.8
131	85.6	70.6	106.0





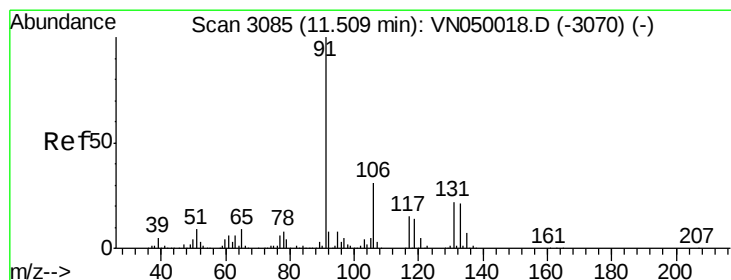
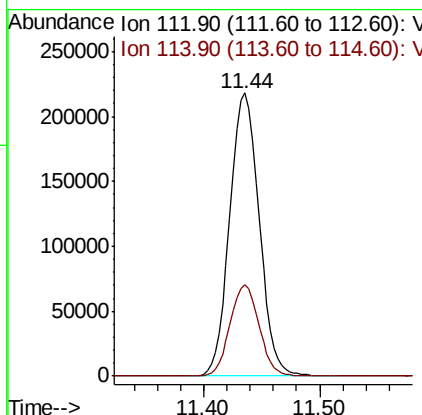
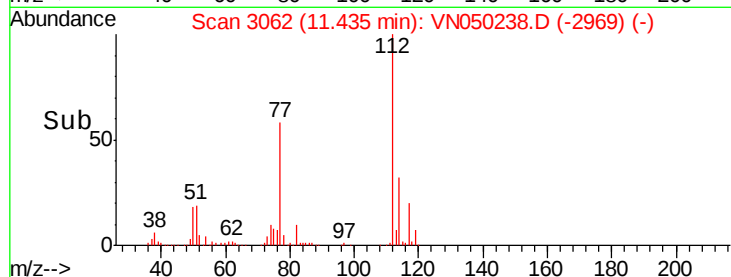
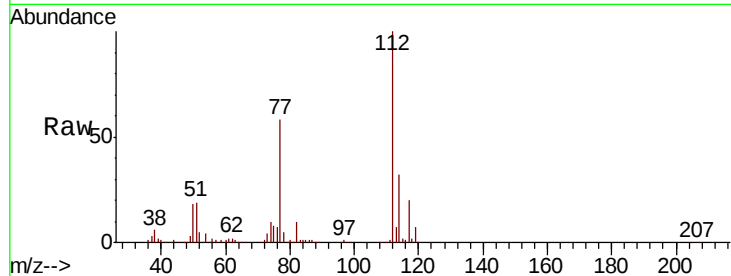
#65
Chlorobenzene
Concen: 19.426 ug/l
RT: 11.44 min Scan# 3062
Delta R.T. 0.00 min
Lab File: VN050238.D
Acq: 1 Aug 2018 10:35

Instrument :
MSVOA_N
ClientSampled :
VN0801WBSD01

Tot Ion:112 Resp: 385067
Ion Ratio Lower Upper
112 100
114 32.3 25.6 38.4

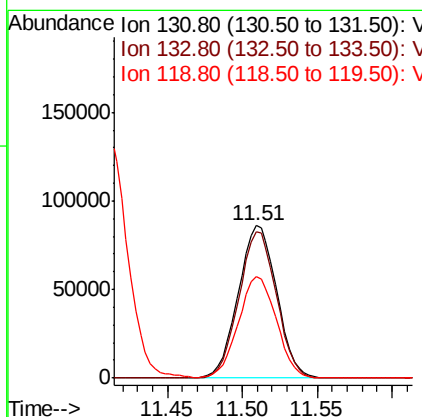
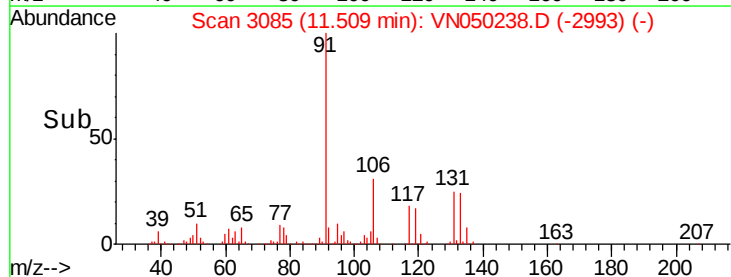
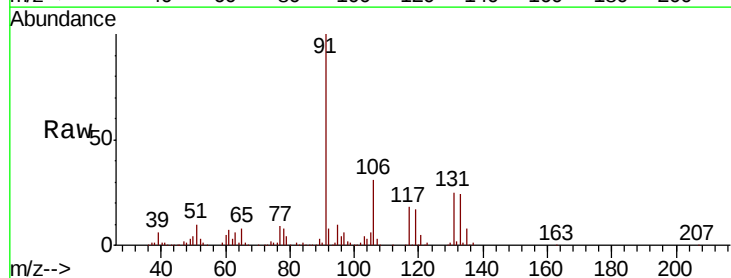
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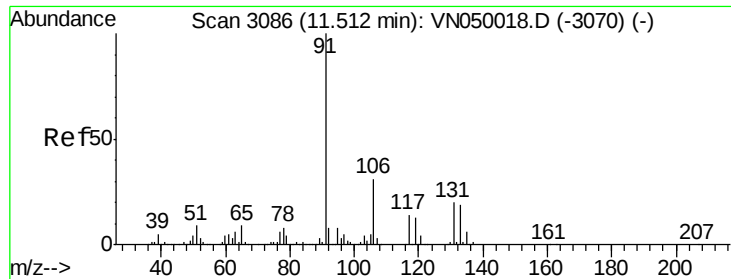
MMDadoda
8/2/2018 9:53:45 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 20.202 ug/l
RT: 11.51 min Scan# 3085
Delta R.T. -0.00 min
Lab File: VN050238.D
Acq: 1 Aug 2018 10:35

Tgt Ion:131 Resp: 153863
Ion Ratio Lower Upper
131 100
133 93.8 47.3 141.9
119 66.1 32.9 98.7





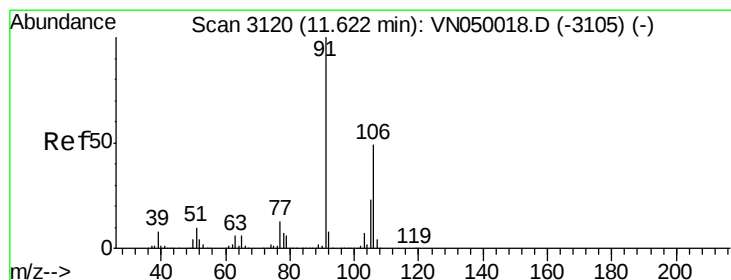
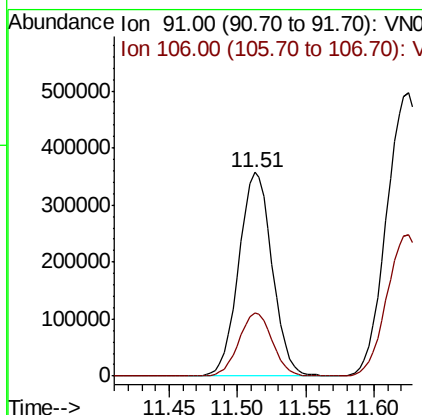
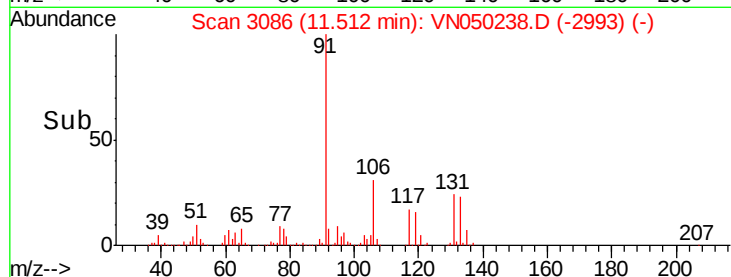
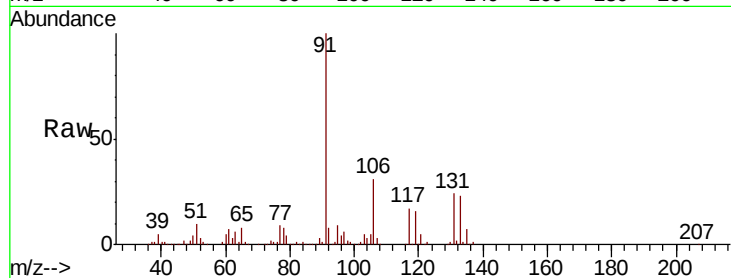
#67
Ethyl Benzene
Concen: 19.075 ug/l
RT: 11.51 min Scan# 3086
Delta R.T. 0.00 min
Lab File: VN050238.D
Acq: 1 Aug 2018 10:35

Instrument :
MSVOA_N
ClientSampleId :
VN0801WBSD01

Tot Ion: 91 Resp: 607372
Ion Ratio Lower Upper
91 100
106 31.0 25.0 37.4

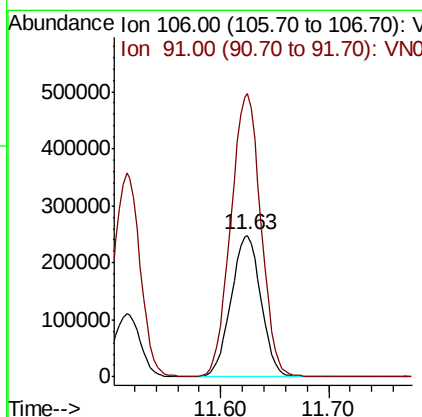
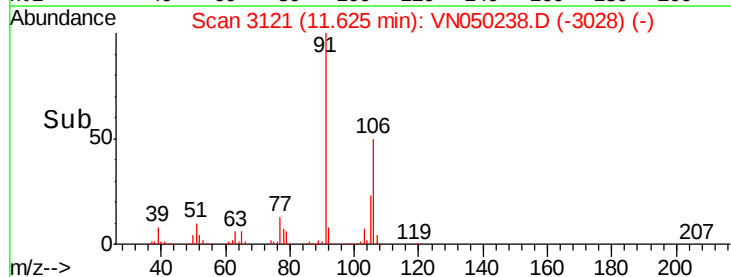
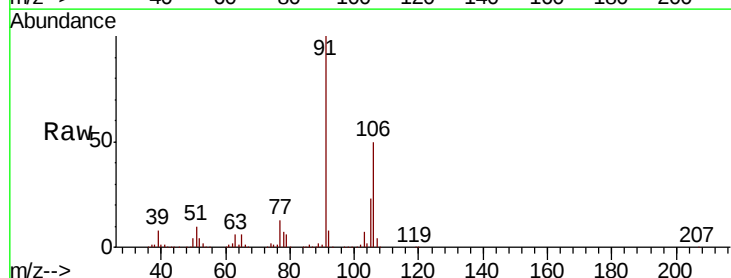
Manual Integrations
APPROVED

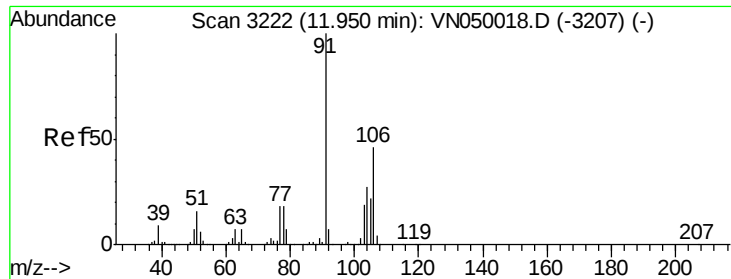
MMDadoda
8/2/2018 9:53:45 AM



#68
m/p-Xylenes
Concen: 39.720 ug/l
RT: 11.63 min Scan# 3121
Delta R.T. 0.00 min
Lab File: VN050238.D
Acq: 1 Aug 2018 10:35

Tgt Ion: 106 Resp: 478393
Ion Ratio Lower Upper
106 100
91 201.7 162.2 243.2





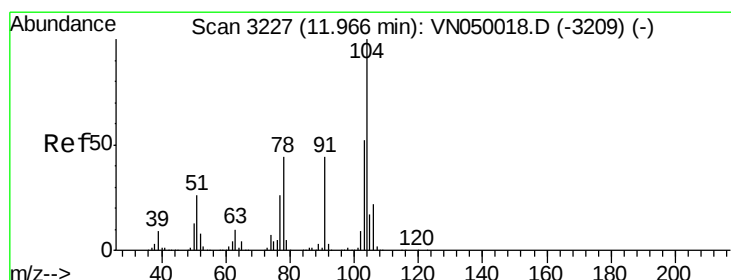
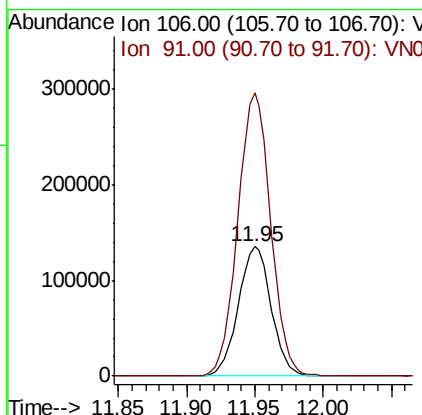
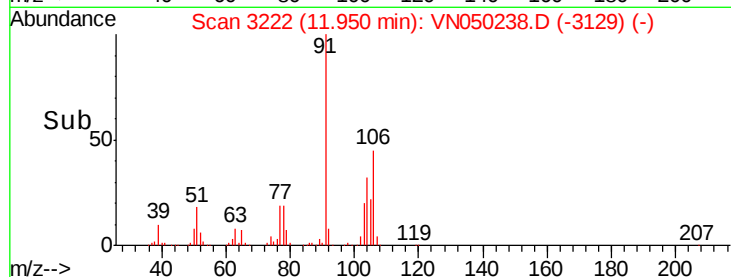
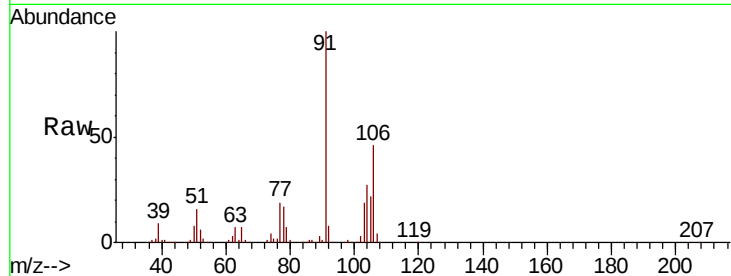
#69
o-Xylene
Concen: 19.661 ug/l
RT: 11.95 min Scan# 3222
Delta R.T. 0.00 min
Lab File: VN050238.D
Acq: 1 Aug 2018 10:35

Instrument :
MSVOA_N
ClientSampleId :
VN0801WBSD01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	100		225732		
91	219.5	107.7	323.1		

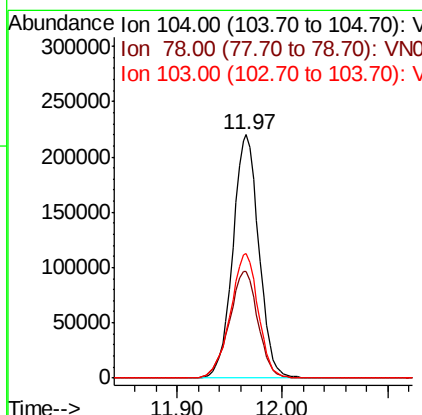
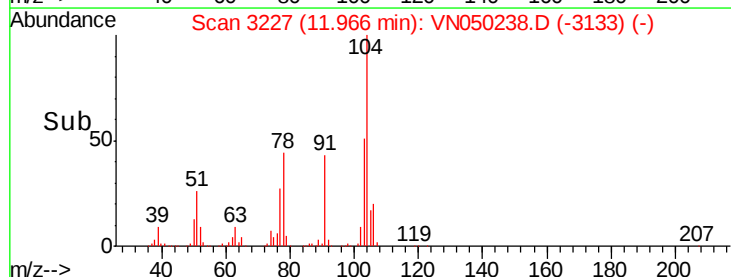
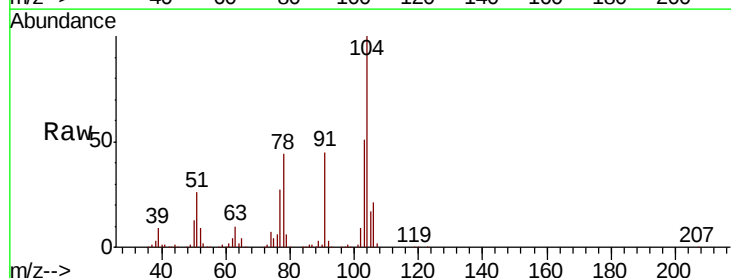
Manual Integrations
APPROVED

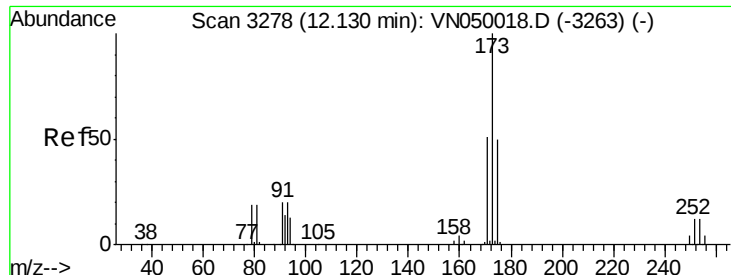
MMDadoda
8/2/2018 9:53:45 AM



#70
Styrene
Concen: 18.961 ug/l
RT: 11.97 min Scan# 3227
Delta R.T. 0.00 min
Lab File: VN050238.D
Acq: 1 Aug 2018 10:35

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	100		375257		
78	48.4	39.3	58.9		
103	54.8	45.0	67.6		





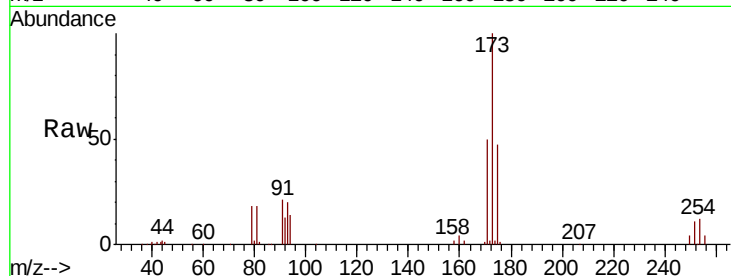
#71
Bromoform
Concen: 20.535 ug/l
RT: 12.13 min Scan# 3278
Delta R.T. 0.00 min
Lab File: VN050238.D
Acq: 1 Aug 2018 10:35

Instrument :
MSVOA_N
ClientSampleId :
VN0801WBSD01

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.3	24.1	72.2
254	0.1	0.2	0.2

Manual Integrations
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MMDadoda
8/2/2018 9:53:45 AM

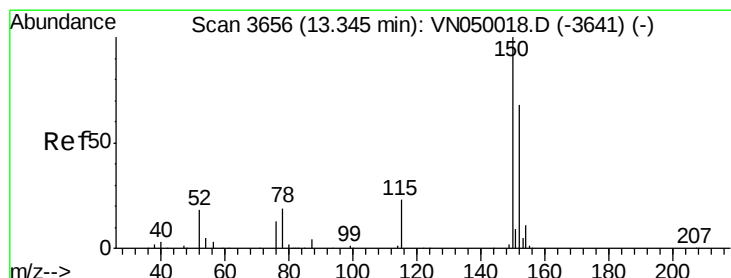
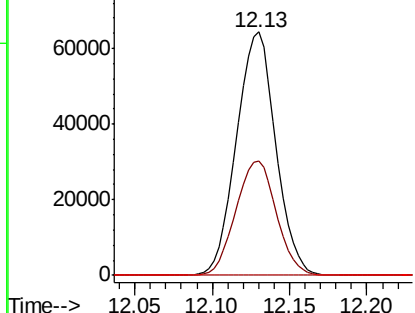
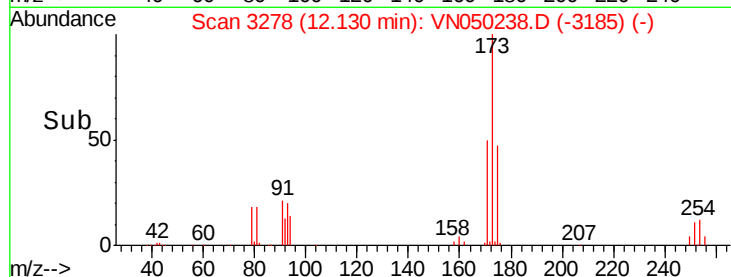


Abundance

Ion 172.70 (172.40 to 173.40): V

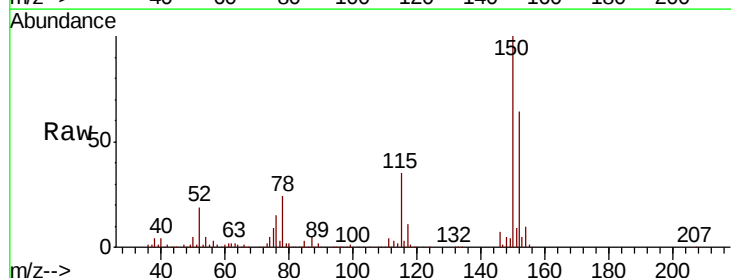
Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3656
Delta R.T. 0.00 min
Lab File: VN050238.D
Acq: 1 Aug 2018 10:35

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.8	27.8	83.3
150	162.6	0.0	348.6

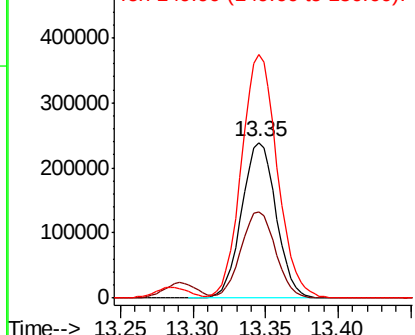
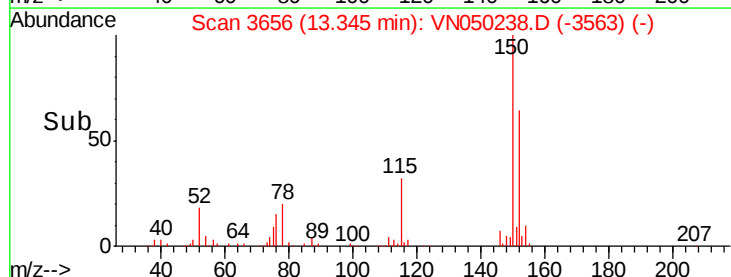


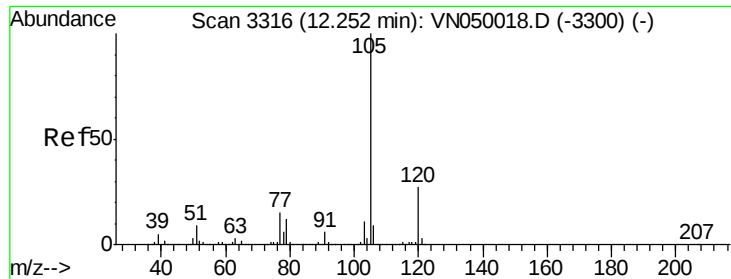
Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 19.498 ug/l

RT: 12.25 min Scan# 3316

Delta R.T. 0.00 min

Lab File: VN050238.D

Acq: 1 Aug 2018 10:35

Instrument :

MSVOA_N

ClientSampleId :

VN0801WBSD01

Tot Ion:105 Resp: 597089

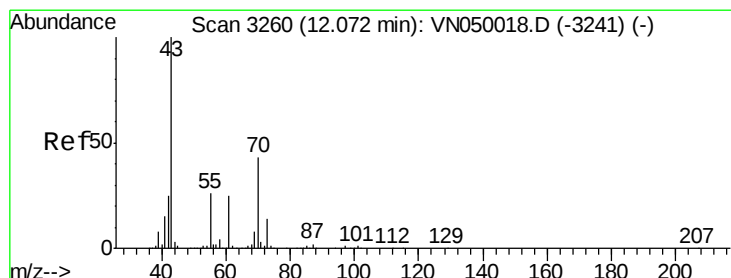
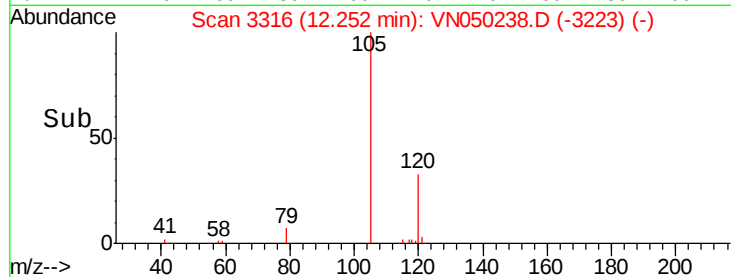
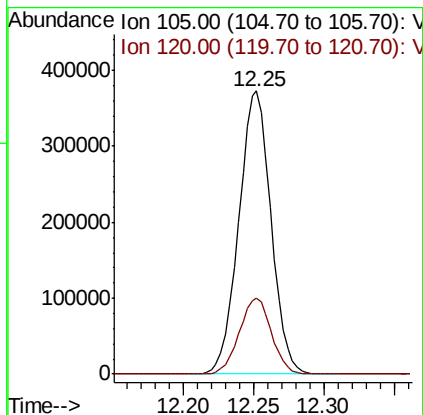
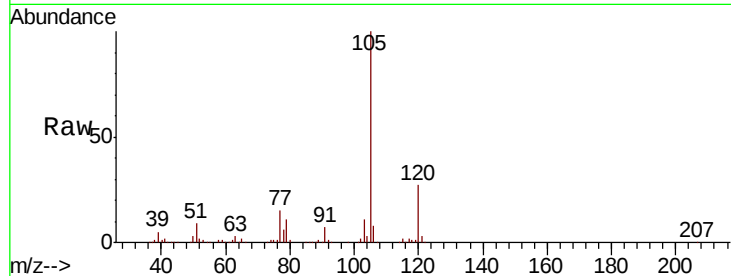
Ion Ratio Lower Upper

105 100

120 26.8 13.3 39.8

Manual Integrations
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MMDadoda
8/2/2018 9:53:45 AM



#74

N-ethyl acetate

Concen: 20.140 ug/l

RT: 12.07 min Scan# 3260

Delta R.T. 0.00 min

Lab File: VN050238.D

Acq: 1 Aug 2018 10:35

Tgt Ion: 43 Resp: 188504

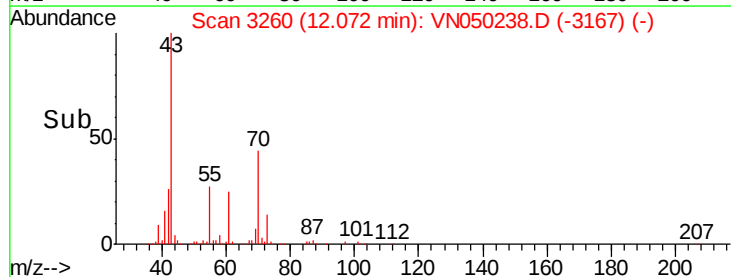
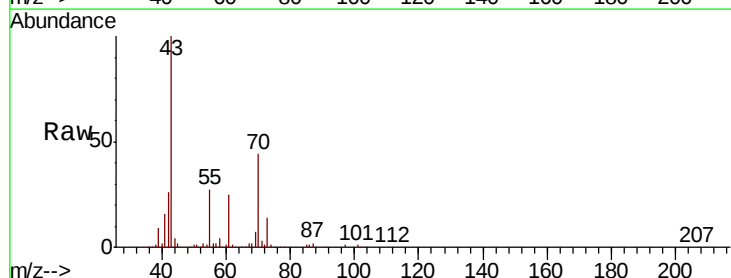
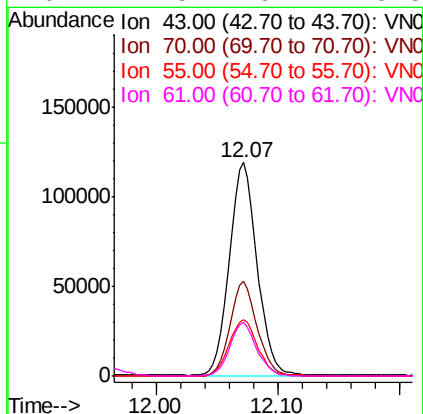
Ion Ratio Lower Upper

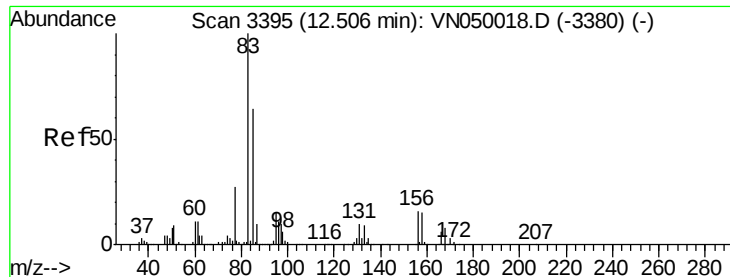
43 100

70 43.5 34.4 51.6

55 27.5 20.8 31.2

61 24.5 19.7 29.5





#75

1,1,2,2-Tetrachloroethane

Concen: 21.993 ug/l

RT: 12.51 min Scan# 3395

Delta R.T. 0.00 min

Lab File: VN050238.D

Acq: 1 Aug 2018 10:35

Instrument :

MSVOA_N

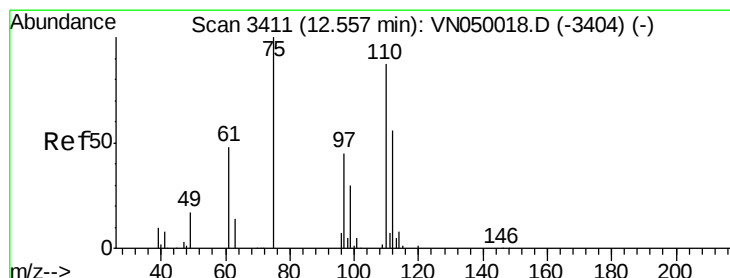
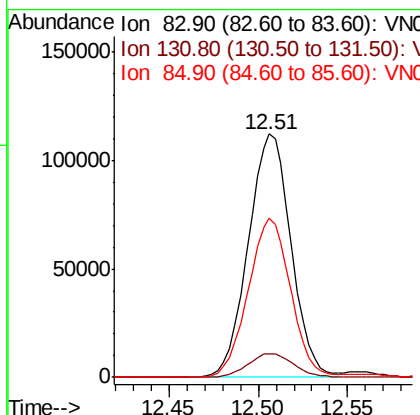
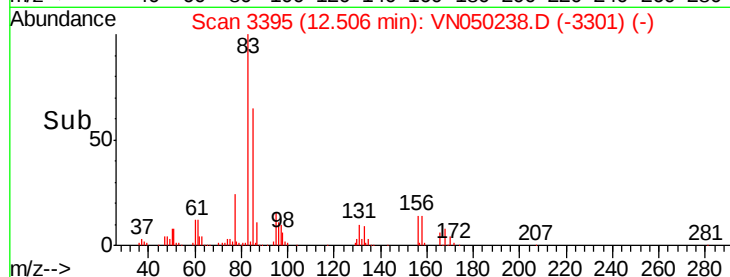
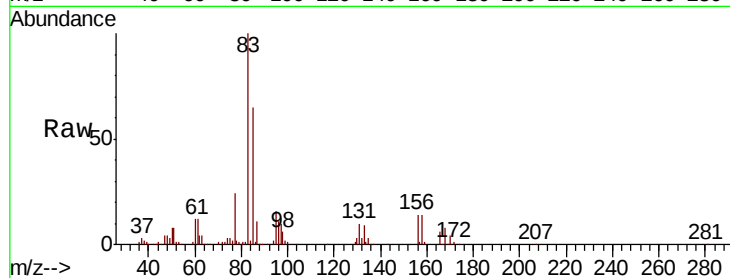
ClientSampleId :

VN0801WBSD01

Tot Ion:	83	Resp:	187993
Ion Ratio	Lower	Upper	
83	100		
131	10.3	5.1	15.3
85	64.5	32.3	96.8

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 21.920 ug/l m

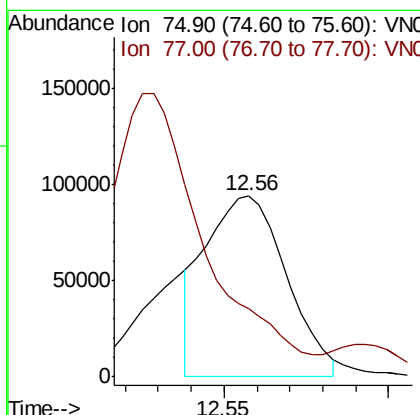
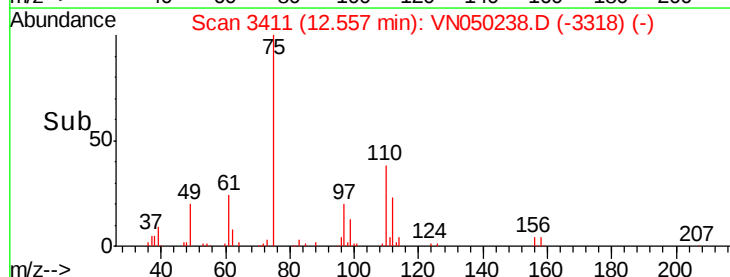
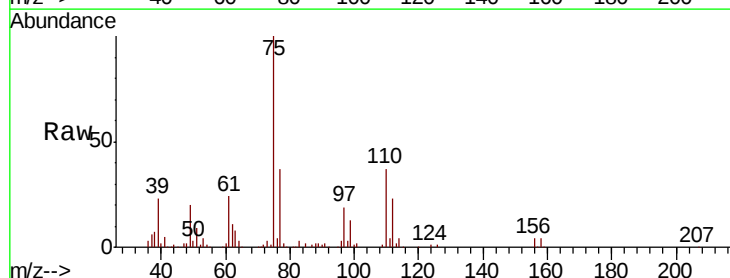
RT: 12.56 min Scan# 3411

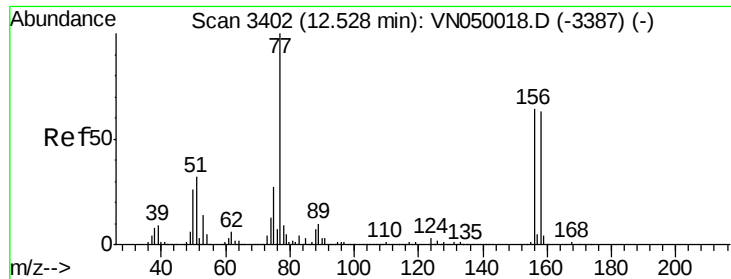
Delta R.T. 0.00 min

Lab File: VN050238.D

Acq: 1 Aug 2018 10:35

Tgt Ion:	75	Resp:	160851
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 19.717 ug/l

RT: 12.53 min Scan# 3402

Delta R.T. 0.00 min

Lab File: VN050238.D

Acq: 1 Aug 2018 10:35

Instrument :

MSVOA_N

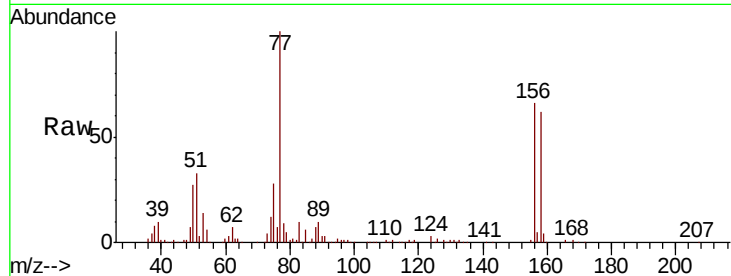
ClientSampleId :

VN0801WBSD01

Tot Ion:	156	Resp:	167347
Ion Ratio	Lower	Upper	
156	100		
77	183.6	91.7	275.1
158	94.9	48.9	146.6

Manual Integrations
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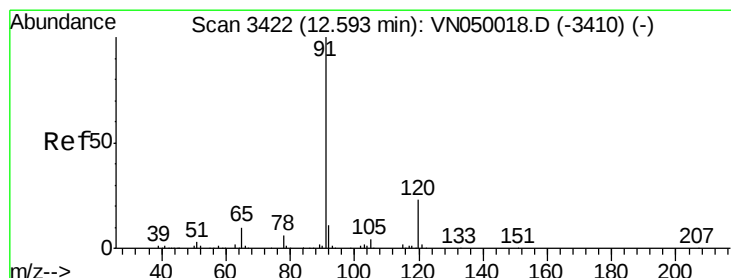
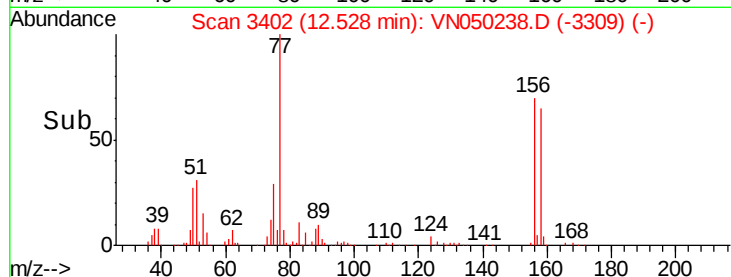
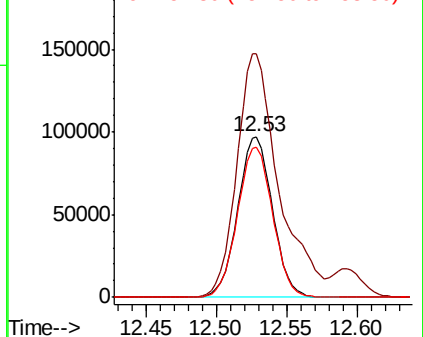
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Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 19.592 ug/l

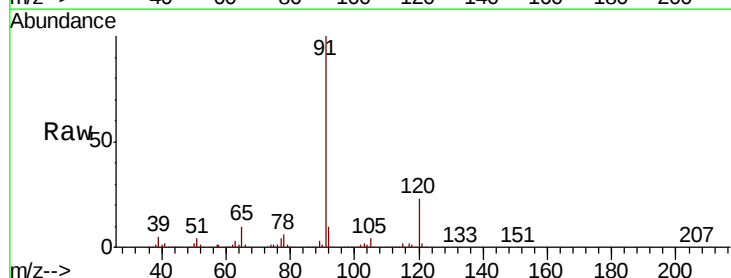
RT: 12.59 min Scan# 3422

Delta R.T. 0.00 min

Lab File: VN050238.D

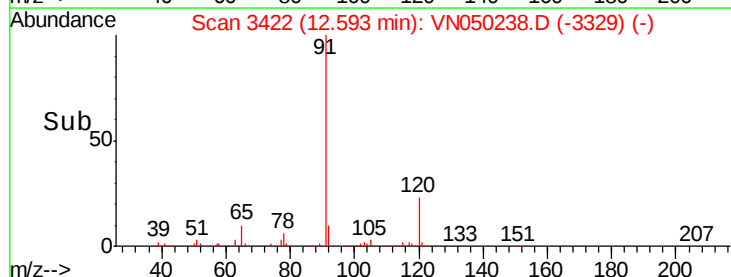
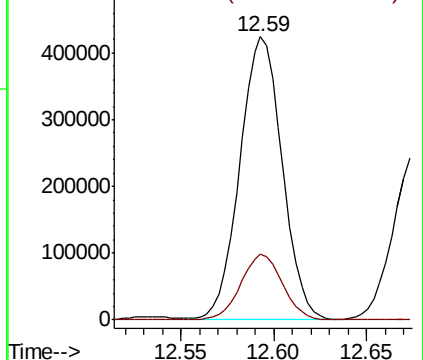
Acq: 1 Aug 2018 10:35

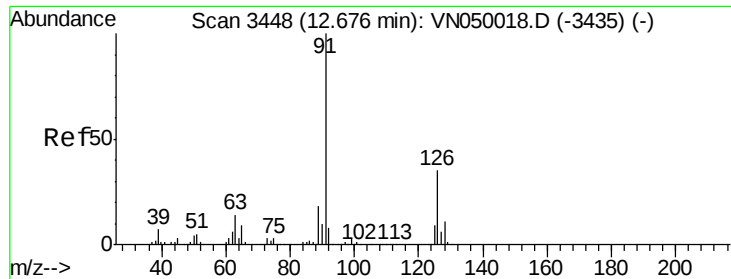
Tgt Ion:	91	Resp:	670606
Ion Ratio	Lower	Upper	
91	100		
120	23.1	11.6	34.7



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 19.921 ug/l

RT: 12.68 min Scan# 3448

Delta R.T. 0.00 min

Lab File: VN050238.D

Acq: 1 Aug 2018 10:35

Instrument :

MSVOA_N

ClientSampled :

VN0801WBSD01

Tot Ion: 91 Resp: 422636

Ion Ratio Lower Upper

91 100

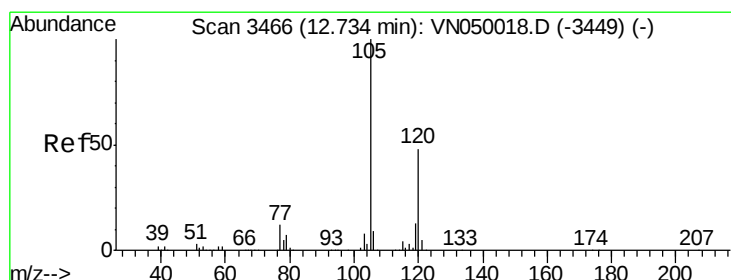
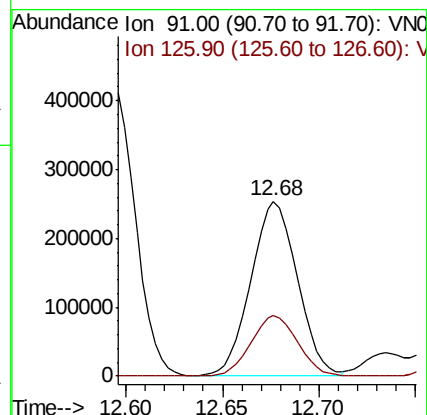
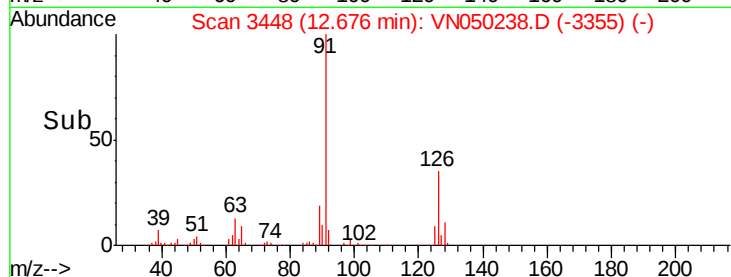
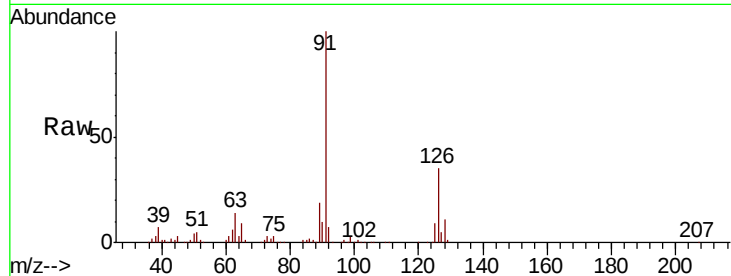
126 35.0 17.6 52.8

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#80

1,3,5-Trimethylbenzene

Concen: 20.511 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. 0.00 min

Lab File: VN050238.D

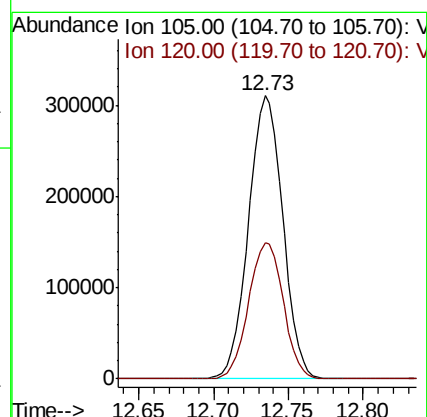
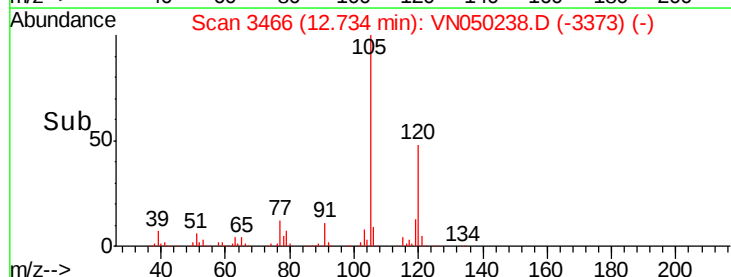
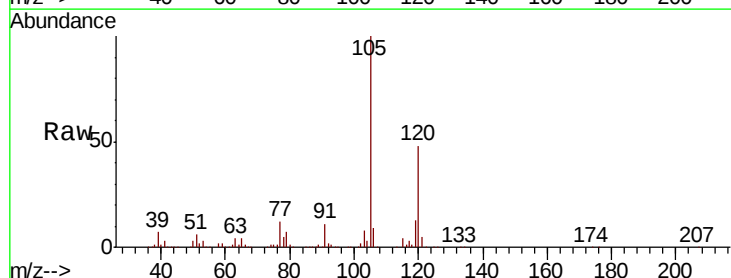
Acq: 1 Aug 2018 10:35

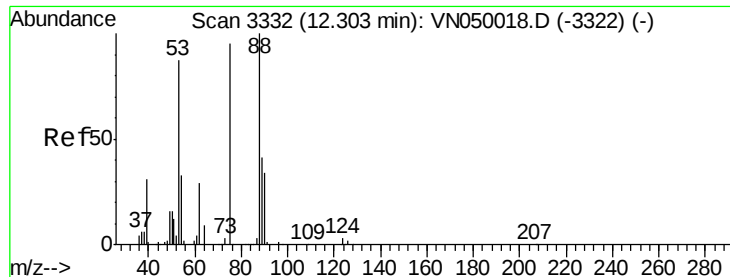
Tgt Ion: 105 Resp: 494079

Ion Ratio Lower Upper

105 100

120 48.9 24.4 73.2





#81

trans-1,4-Dichloro-2-butene

Concen: 20.659 ug/l

RT: 12.30 min Scan# 3332

Delta R.T. 0.00 min

Lab File: VN050238.D

Acq: 1 Aug 2018 10:35

Instrument :

MSVOA_N

ClientSampleId :

VN0801WBSD01

Tot Ion: 75 Resp: 47796

Ion Ratio Lower Upper

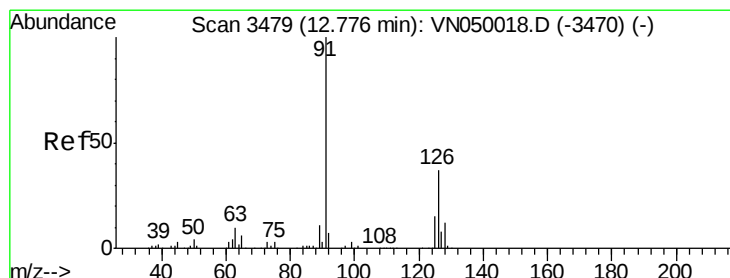
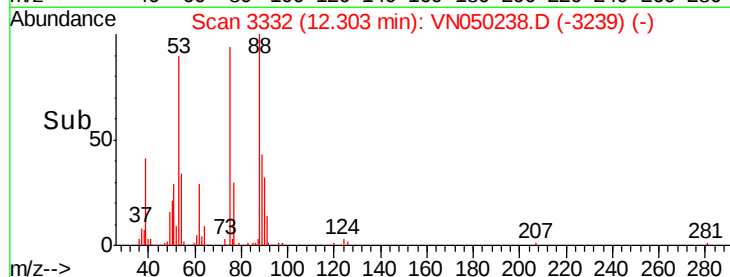
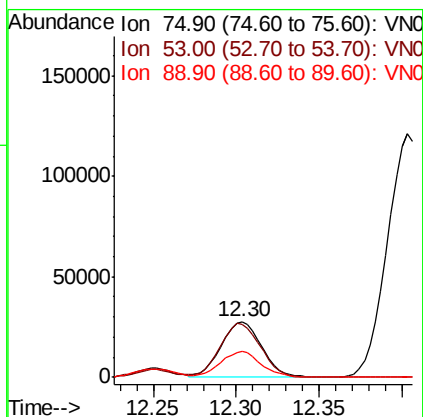
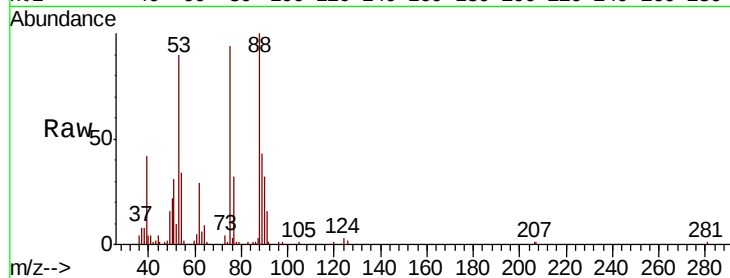
75 100

53 94.2 73.5 110.3

89 45.4 36.0 54.0

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#82

4-Chlorotoluene

Concen: 19.819 ug/l

RT: 12.78 min Scan# 3479

Delta R.T. 0.00 min

Lab File: VN050238.D

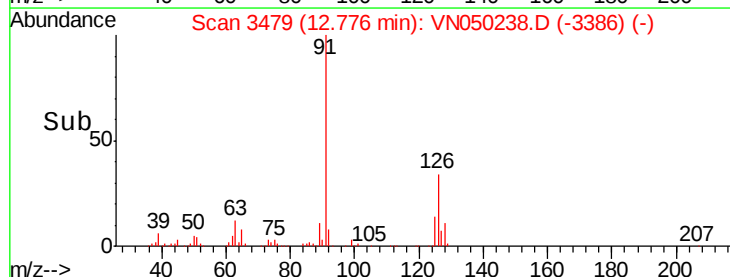
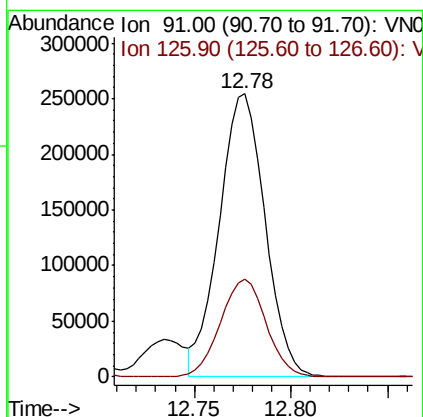
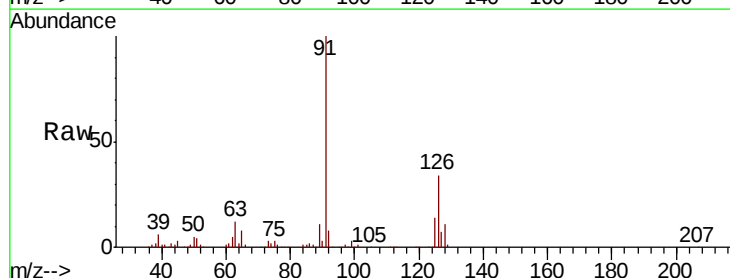
Acq: 1 Aug 2018 10:35

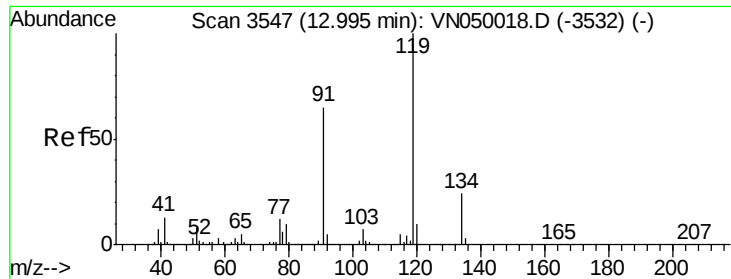
Tgt Ion: 91 Resp: 416380

Ion Ratio Lower Upper

91 100

126 34.7 17.0 51.0





#83

tert-Butylbenzene

Concen: 19.762 ug/l

RT: 12.99 min Scan# 3547

Delta R.T. -0.00 min

Lab File: VN050238.D

Acq: 1 Aug 2018 10:35

Instrument :

MSVOA_N

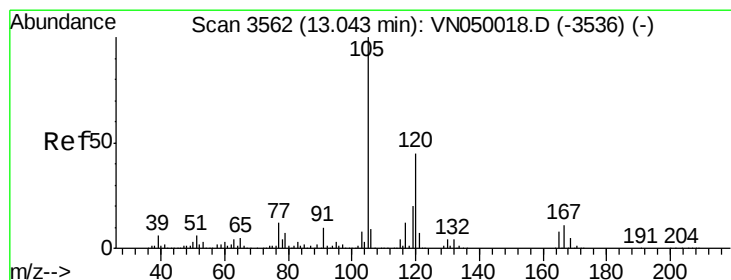
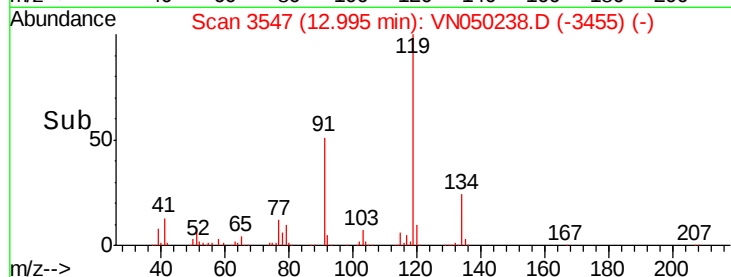
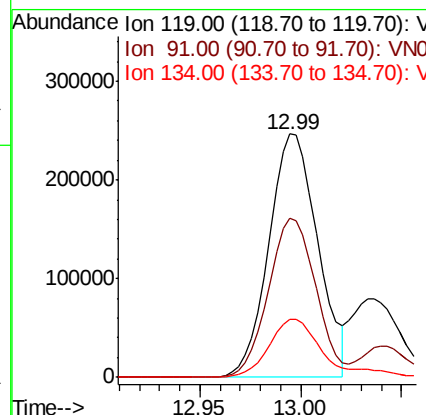
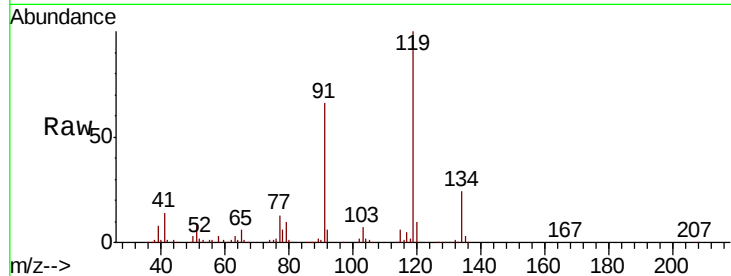
ClientSampleId :

VN0801WBSD01

Tot Ion:	119	Resp:	415416
Ion Ratio	Lower	Upper	
119	100		
91	63.6	32.1	96.3
134	26.5	13.2	39.5

Manual Integrations
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#84

1,2,4-Trimethylbenzene

Concen: 20.820 ug/l

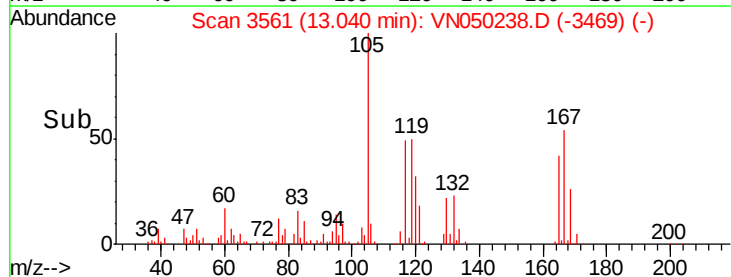
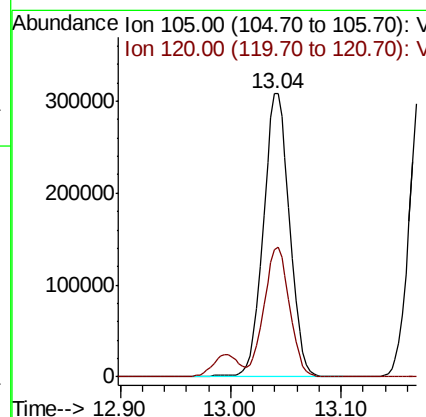
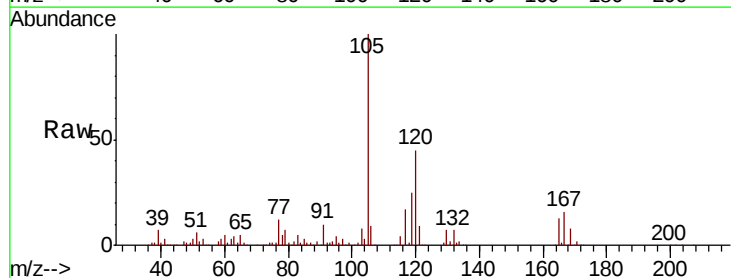
RT: 13.04 min Scan# 3561

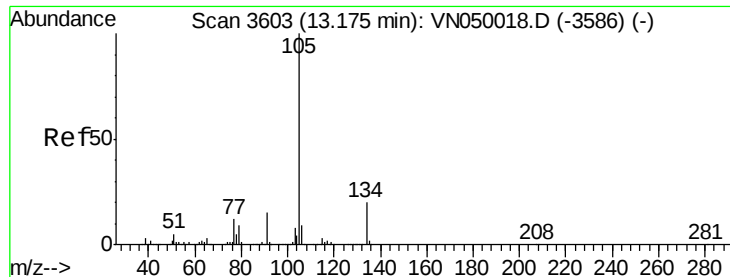
Delta R.T. -0.00 min

Lab File: VN050238.D

Acq: 1 Aug 2018 10:35

Tgt Ion:	105	Resp:	505499
Ion Ratio	Lower	Upper	
105	100		
120	44.8	22.9	68.7





#85

sec-Butylbenzene

Concen: 19.684 ug/l

RT: 13.17 min Scan# 3603

Delta R.T. 0.00 min

Lab File: VN050238.D

Acq: 1 Aug 2018 10:35

Instrument :

MSVOA_N

ClientSampleId :

VN0801WBSD01

Tot Ion:105 Resp: 552884

Ion Ratio Lower Upper

105 100

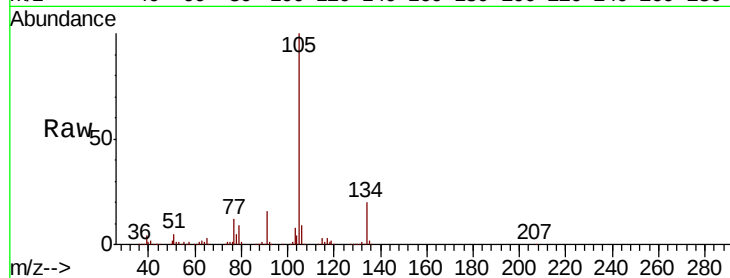
134 20.0 10.1 30.1

Manual Integrations

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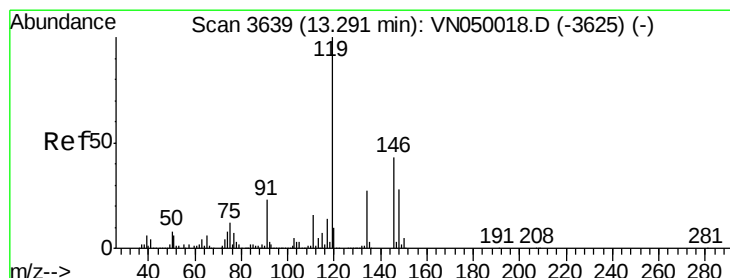
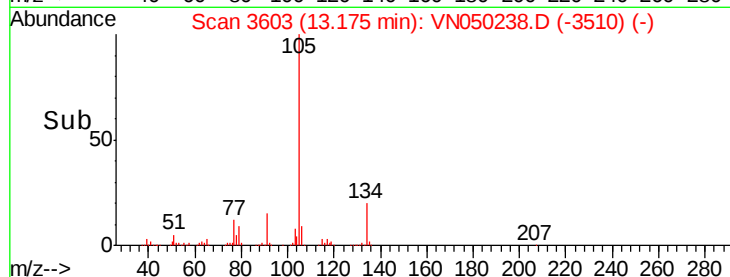
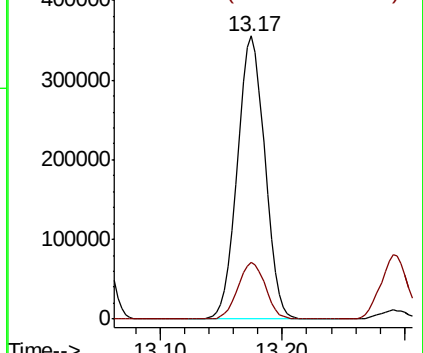
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 19.738 ug/l

RT: 13.29 min Scan# 3639

Delta R.T. 0.00 min

Lab File: VN050238.D

Acq: 1 Aug 2018 10:35

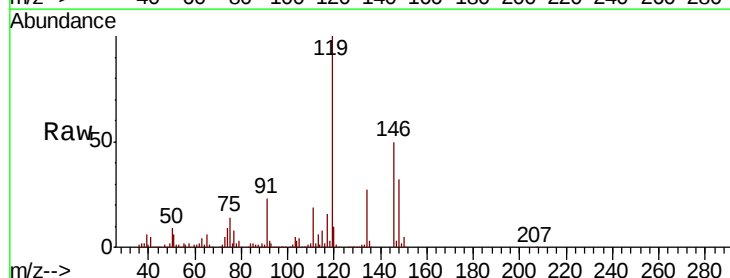
Tgt Ion:119 Resp: 467140

Ion Ratio Lower Upper

119 100

134 26.3 13.3 39.8

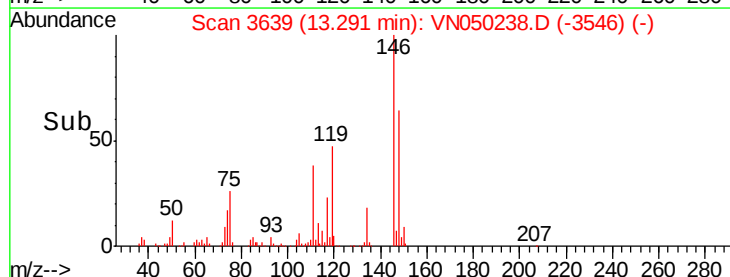
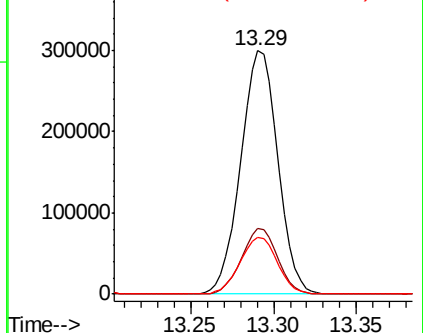
91 23.5 11.4 34.2



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





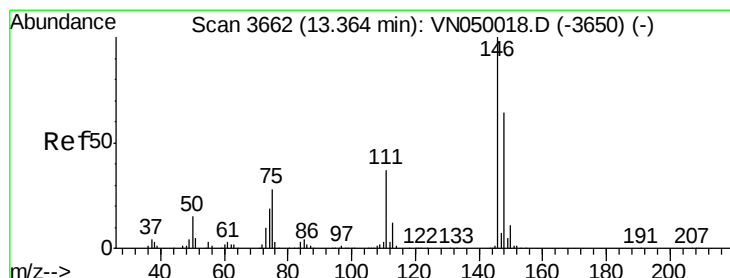
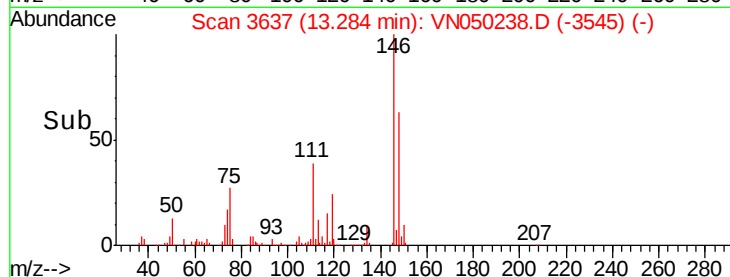
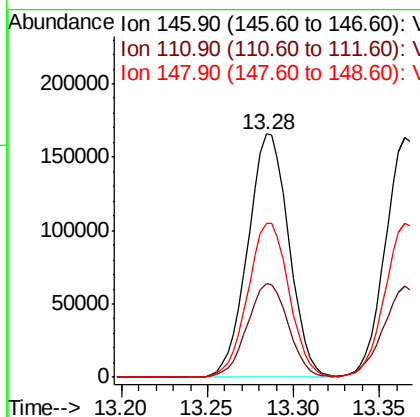
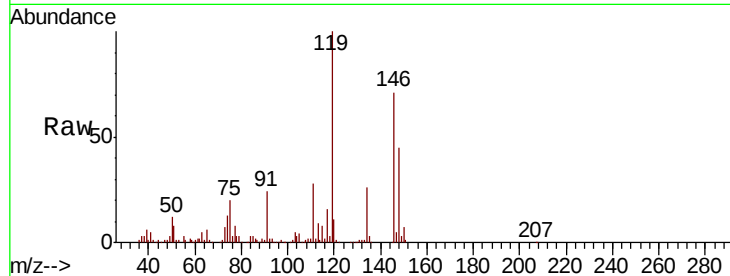
#87
 1,3-Dichlorobenzene
 Concen: 19.101 ug/l
 RT: 13.28 min Scan# 3637
 Delta R.T. -0.00 min
 Lab File: VN050238.D
 Acq: 1 Aug 2018 10:35

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0801WBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.5	18.8	56.4
148	63.7	31.9	95.9

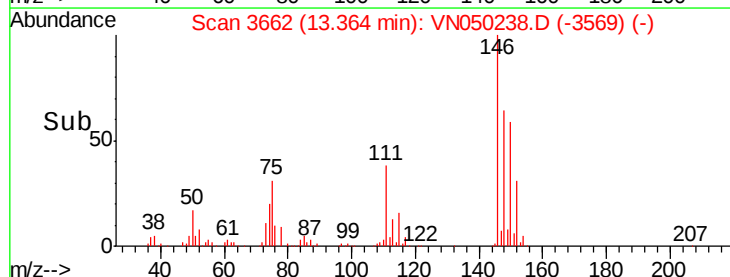
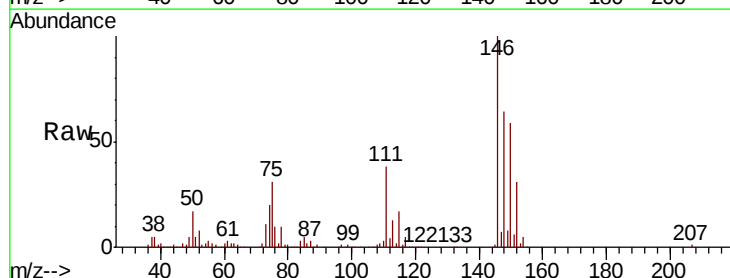
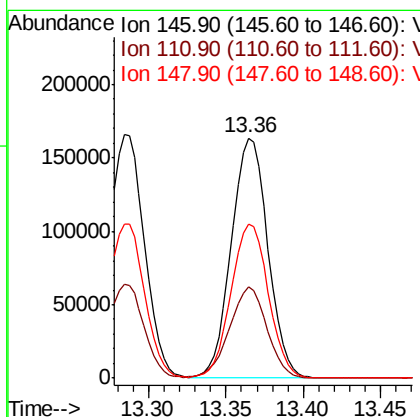
Manual Integrations
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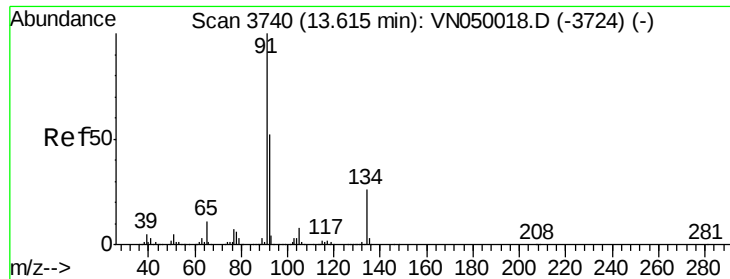
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 8/2/2018 9:53:45 AM



#88
 1,4-Dichlorobenzene
 Concen: 19.142 ug/l
 RT: 13.36 min Scan# 3662
 Delta R.T. 0.00 min
 Lab File: VN050238.D
 Acq: 1 Aug 2018 10:35

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.1	18.3	54.9
148	65.7	31.9	95.9





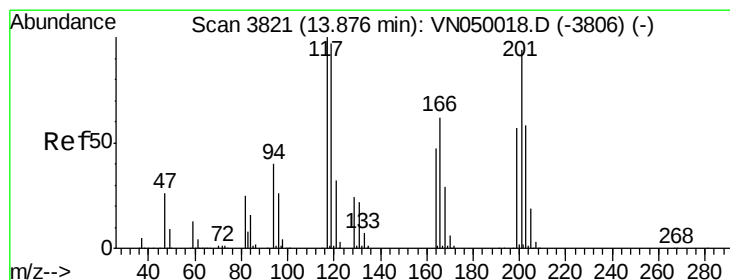
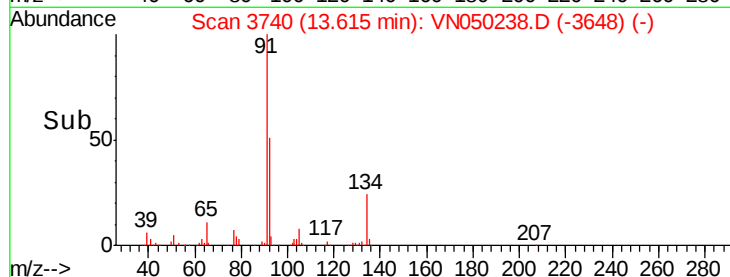
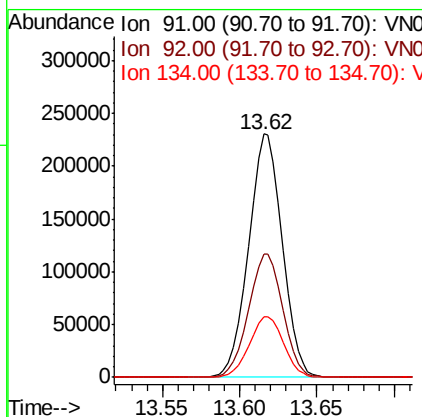
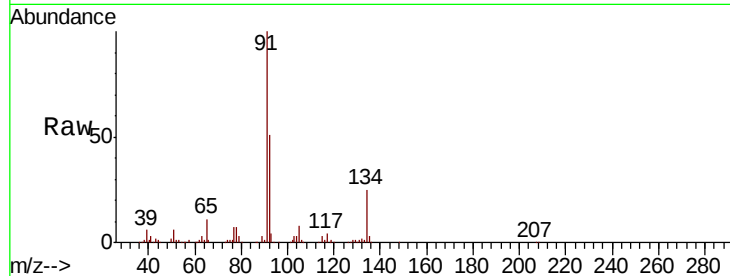
#89
n-Butylbenzene
Concen: 17.939 ug/l
RT: 13.62 min Scan# 3740
Delta R.T. -0.00 min
Lab File: VN050238.D
Acq: 1 Aug 2018 10:35

Instrument :
MSVOA_N
ClientSampleId :
VN0801WBSD01

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.6	25.8	77.4
134	25.3	12.8	38.4

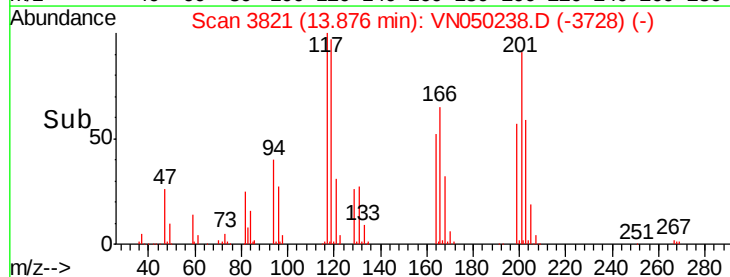
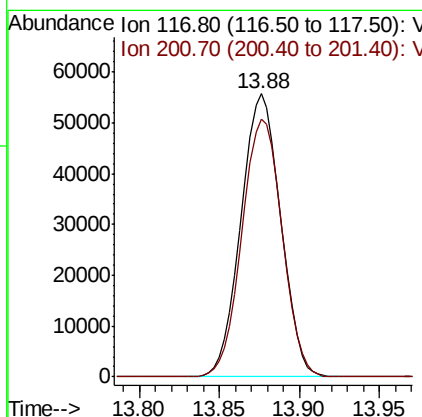
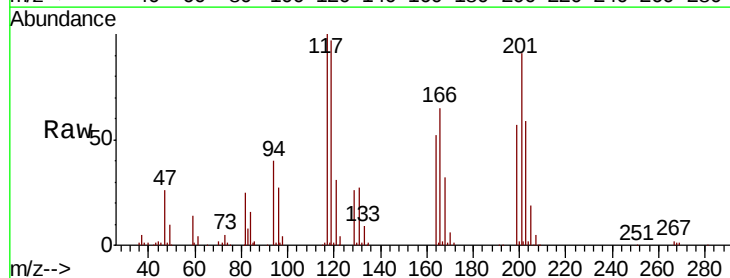
Manual Integrations
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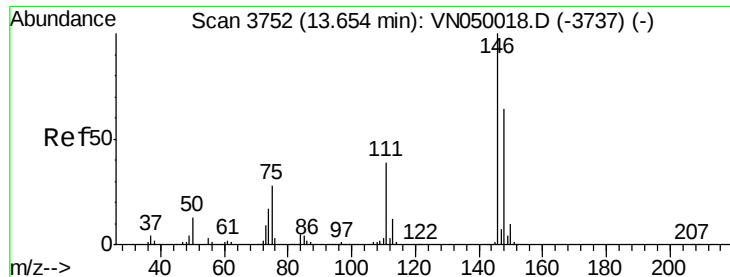
MMDadoda
8/2/2018 9:53:45 AM



#90
Hexachloroethane
Concen: 17.954 ug/l
RT: 13.88 min Scan# 3821
Delta R.T. 0.00 min
Lab File: VN050238.D
Acq: 1 Aug 2018 10:35

Tgt Ion	Ratio	Lower	Upper
117	100		
201	92.2	45.6	136.8





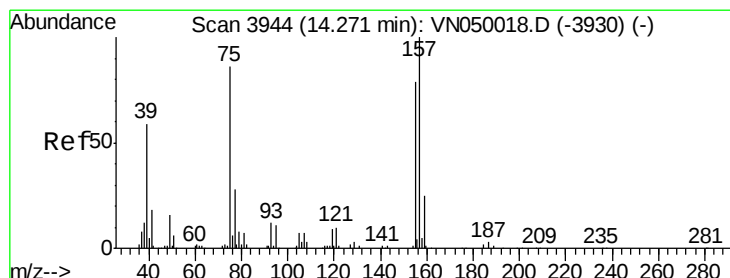
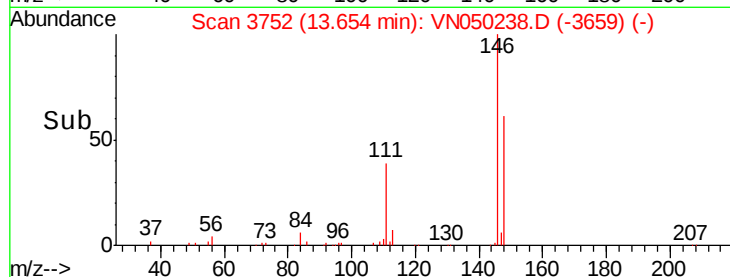
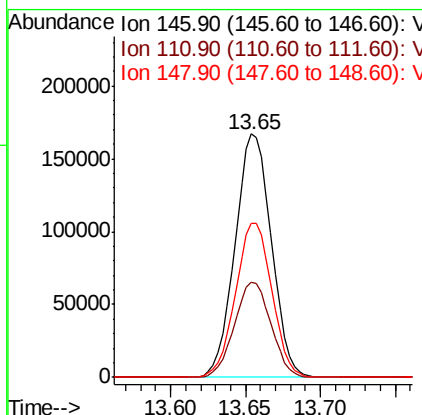
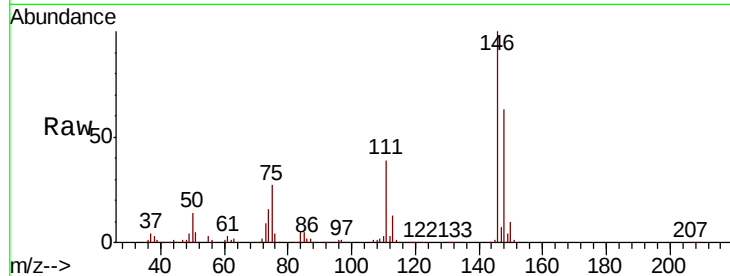
#91
 1,2-Dichlorobenzene
 Concen: 19.592 ug/l
 RT: 13.65 min Scan# 3752
 Delta R.T. 0.00 min
 Lab File: VN050238.D
 Acq: 1 Aug 2018 10:35

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0801WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
146	100	281795		
111	39.3	19.6	58.7	
148	63.7	32.1	96.3	

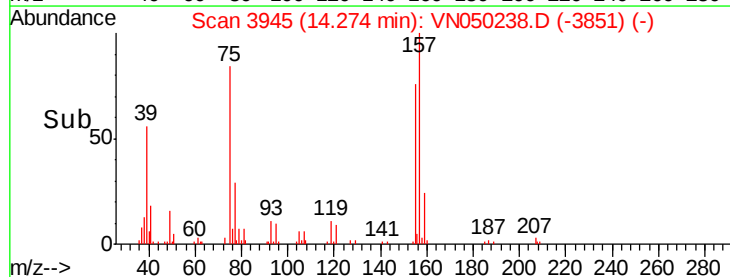
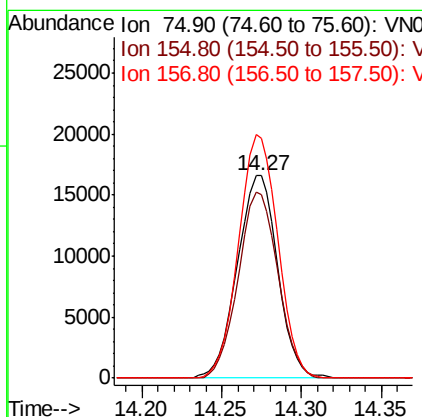
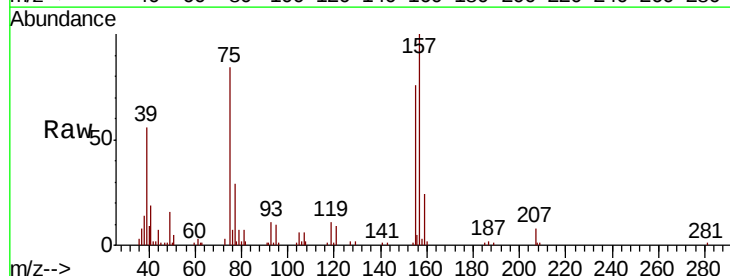
Manual Integrations
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 8/2/2018 9:53:45 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 20.343 ug/l
 RT: 14.27 min Scan# 3945
 Delta R.T. 0.00 min
 Lab File: VN050238.D
 Acq: 1 Aug 2018 10:35

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	28414		
155	90.4	44.8	134.4	
157	116.9	57.2	171.6	





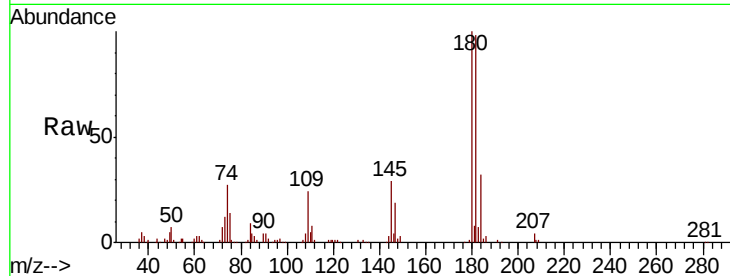
#93
 1,2,4-Trichlorobenzene
 Concen: 16.767 ug/l
 RT: 14.91 min Scan# 4143
 Delta R.T. 0.00 min
 Lab File: VN050238.D
 Acq: 1 Aug 2018 10:35

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0801WBSD01

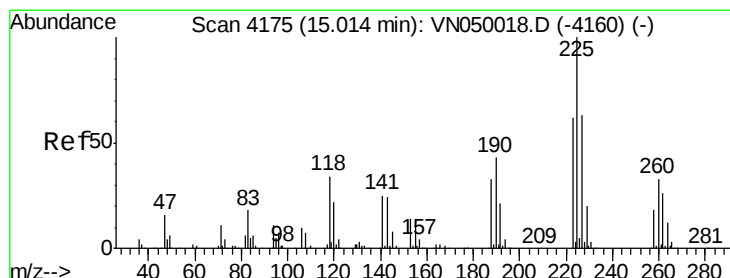
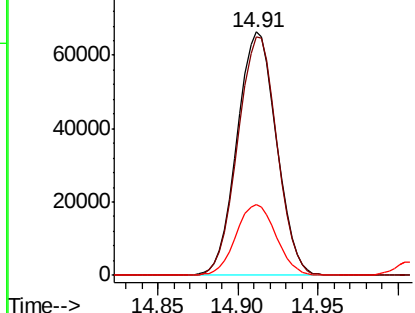
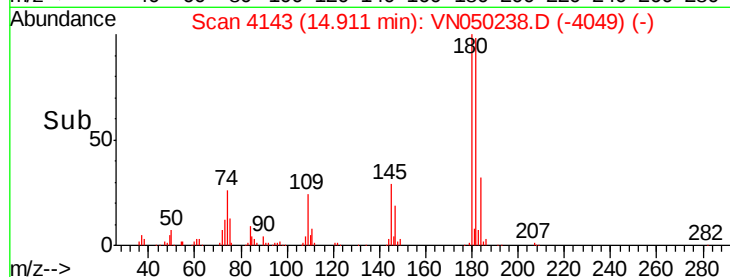
Tot Ion:	180	Resp:	111216
Ion Ratio	Lower	Upper	
180	100		
182	97.5	46.7	140.1
145	29.6	13.8	41.4

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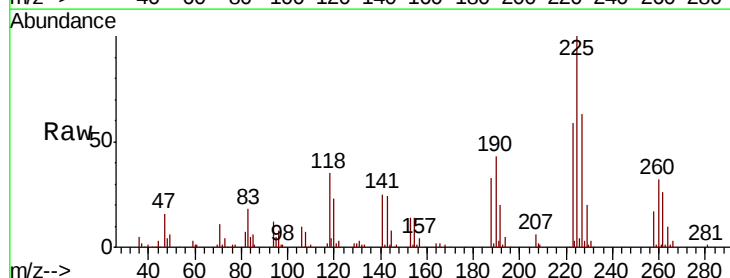


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

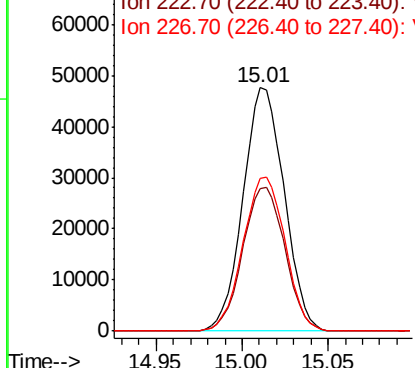
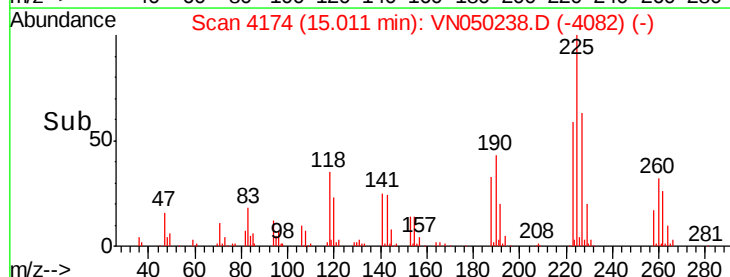


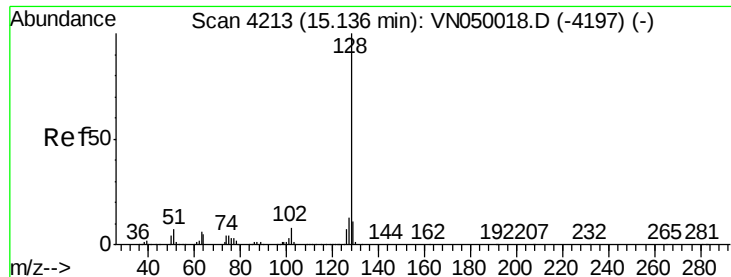
#94
 Hexachlorobutadiene
 Concen: 18.011 ug/l
 RT: 15.01 min Scan# 4174
 Delta R.T. -0.00 min
 Lab File: VN050238.D
 Acq: 1 Aug 2018 10:35

Tgt Ion:	225	Resp:	79305
Ion Ratio	Lower	Upper	
225	100		
223	60.6	31.4	94.2
227	64.7	32.1	96.5



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





#95

Naphthalene

Concen: 16.955 ug/l

RT: 15.14 min Scan# 4213

Delta R.T. 0.00 min

Lab File: VN050238.D

Acq: 1 Aug 2018 10:35

Instrument :

MSVOA_N

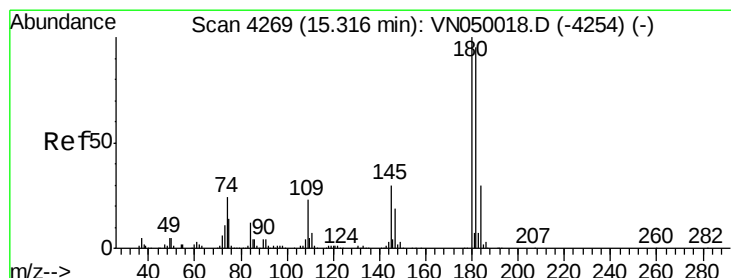
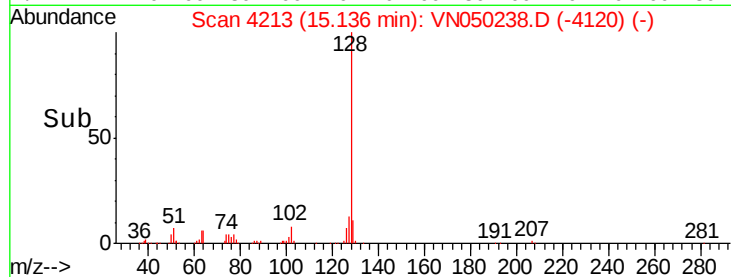
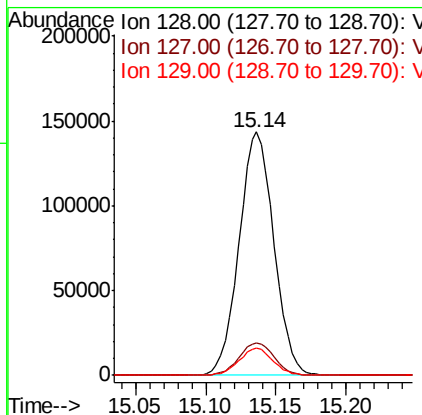
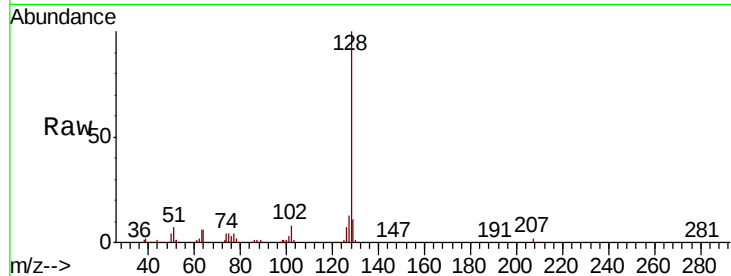
ClientSampleId :

VN0801WBSD01

Tot Ion:	128	Resp:	248032
Ion Ratio	Lower	Upper	
128	100		
127	13.5	10.4	15.6
129	11.1	8.8	13.2

Manual Integrations
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8/2/2018 9:53:45 AM



#96

1,2,3-Trichlorobenzene

Concen: 17.977 ug/l

RT: 15.32 min Scan# 4269

Delta R.T. -0.00 min

Lab File: VN050238.D

Acq: 1 Aug 2018 10:35

Tgt Ion:	180	Resp:	122581
Ion Ratio	Lower	Upper	
180	100		
182	95.4	48.1	144.4
145	29.9	15.3	45.9

