

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN101118\
 Data File : VN051819.D
 Acq On : 11 Oct 2018 18:19
 Operator : MD\SY
 Sample : VN1011WBSD01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1011WBSD01

Manual Integrations
 APPROVED

MMDadoda
 10/15/2018 3:00:13 PM

Quant Time: Oct 12 06:57:28 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101118W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 11 13:17:04 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	823899	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1225969	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1108834	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	511333	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	400111	50.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.62%	
35) Dibromofluoromethane	7.59	113	374417	49.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.24%	
50) Toluene-d8	10.09	98	1396827	49.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.34%	
62) 4-Bromofluorobenzene	12.40	95	462976	47.21	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.42%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	83470	18.25	ug/l	100
3) Chloromethane	2.06	50	111554	20.14	ug/l	98
4) Vinyl Chloride	2.18	62	168336	20.26	ug/l	100
5) Bromomethane	2.56	94	151540	20.22	ug/l	100
6) Chloroethane	2.70	64	123651	20.27	ug/l	97
7) Trichlorofluoromethane	3.01	101	255113	20.68	ug/l	99
8) Diethyl Ether	3.41	74	68110	20.02	ug/l	83
9) 1,1,2-Trichlorotrifluoroet	3.76	101	125159	19.02	ug/l	98
10) Methyl Iodide	3.95	142	149158	17.21	ug/l	94
11) Tert butyl alcohol	4.80	59	57985	100.12	ug/l #	83
12) 1,1-Dichloroethene	3.73	96	117034	19.79	ug/l	87
13) Acrolein	3.61	56	56560	105.13	ug/l	98
14) Allyl chloride	4.32	41	146158	19.69	ug/l #	77
15) Acrylonitrile	5.00	53	193137	102.45	ug/l	98
16) Acetone	3.82	43	141997	83.61	ug/l	96
17) Carbon Disulfide	4.05	76	285446	17.83	ug/l	99
18) Methyl Acetate	4.33	43	89418	18.44	ug/l #	89
19) Methyl tert-butyl Ether	5.05	73	377907	20.30	ug/l	92
20) Methylene Chloride	4.55	84	132563	18.86	ug/l	92
21) trans-1,2-Dichloroethene	5.04	96	132838	19.13	ug/l	92
22) Diisopropyl ether	5.96	45	330442	20.14	ug/l #	87
23) Vinyl Acetate	5.90	43	1211490	100.93	ug/l #	93
24) 1,1-Dichloroethane	5.85	63	222360	19.73	ug/l	97
25) 2-Butanone	6.84	43	227134	94.64	ug/l #	87
26) 2,2-Dichloropropane	6.83	77	206370	18.08	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	160926	20.11	ug/l	89
28) Bromochloromethane	7.20	49	95918	20.28	ug/l #	72
29) Tetrahydrofuran	7.22	42	148815	104.05	ug/l #	81
30) Chloroform	7.37	83	262007	19.44	ug/l	100
31) Cyclohexane	7.66	56	196662	19.70	ug/l #	81
32) 1,1,1-Trichloroethane	7.57	97	247260	19.54	ug/l	96
36) 1,1-Dichloropropene	7.80	75	186449	18.79	ug/l	96
37) Ethyl Acetate	6.93	43	106274	20.86	ug/l	99
38) Carbon Tetrachloride	7.77	117	218384	18.98	ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	231727	19.01	ug/l	91
40) Benzene	8.04	78	561258	19.60	ug/l	99
41) Methacrylonitrile	7.18	41	60017	24.43	ug/l #	90
42) 1,2-Dichloroethane	8.13	62	184689	19.68	ug/l	100
43) Isopropyl Acetate	8.17	43	197983	19.27	ug/l #	96
44) Trichloroethene	8.84	130	168241	19.30	ug/l	99
45) 1,2-Dichloropropane	9.12	63	133207	19.79	ug/l	99
46) Dibromomethane	9.21	93	101889	19.72	ug/l	99
47) Bromodichloromethane	9.41	83	201792	19.55	ug/l	96
48) Methyl methacrylate	9.20	41	93470	20.59	ug/l #	81
49) 1,4-Dioxane	9.20	88	33345	405.30	ug/l	89
51) 4-Methyl-2-Pentanone	9.99	43	538618	101.82	ug/l	97
52) Toluene	10.16	92	374422	19.48	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	193251	18.69	ug/l	97
54) cis-1,3-Dichloropropene	9.84	75	211602	18.64	ug/l	96
55) 1,1,2-Trichloroethane	10.56	97	140053	19.37	ug/l	99
56) Ethyl methacrylate	10.43	69	170812	20.06	ug/l #	89
57) 1,3-Dichloropropane	10.71	76	215852	19.21	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	375785	101.33	ug/l	90
59) 2-Hexanone	10.75	43	354406	95.39	ug/l	97
60) Dibromochloromethane	10.90	129	164920	19.21	ug/l	98
61) 1,2-Dibromoethane	11.01	107	146150	19.62	ug/l	100
64) Tetrachloroethene	10.63	164	163223	19.19	ug/l	97
65) Chlorobenzene	11.44	112	426942	19.04	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	161584	18.91	ug/l	99
67) Ethyl Benzene	11.51	91	720639	19.41	ug/l	98
68) m/p-Xylenes	11.62	106	575434	38.37	ug/l	96
69) o-Xylene	11.95	106	283067	19.44	ug/l	96
70) Styrene	11.97	104	427505	19.03	ug/l	98
71) Bromoform	12.13	173	104664	18.02	ug/l #	97
73) Isopropylbenzene	12.25	105	753683	19.13	ug/l	99
74) N-amyl acetate	12.07	43	166171	21.27	ug/l	96
75) 1,1,2,2-Tetrachloroethane	12.51	83	172010	19.88	ug/l	98
76) 1,2,3-Trichloropropane	12.56	75	142618m	22.36	ug/l	
77) Bromobenzene	12.53	156	184956	18.83	ug/l	91
78) n-propylbenzene	12.59	91	807123	19.56	ug/l	97
79) 2-Chlorotoluene	12.68	91	473142	19.04	ug/l	97
80) 1,3,5-Trimethylbenzene	12.73	105	620982	19.34	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	41375	18.63	ug/l	97
82) 4-Chlorotoluene	12.77	91	464391	19.44	ug/l	97
83) tert-Butylbenzene	12.99	119	576750	19.37	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	626387	19.59	ug/l	98
85) sec-Butylbenzene	13.17	105	750683	19.46	ug/l	98
86) p-Isopropyltoluene	13.29	119	660864	19.48	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	318747	18.97	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	308503	18.94	ug/l	100
89) n-Butylbenzene	13.62	91	508877	20.18	ug/l	98
90) Hexachloroethane	13.88	117	109341	17.76	ug/l	93
91) 1,2-Dichlorobenzene	13.65	146	322313	19.85	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	26635	20.91	ug/l	91

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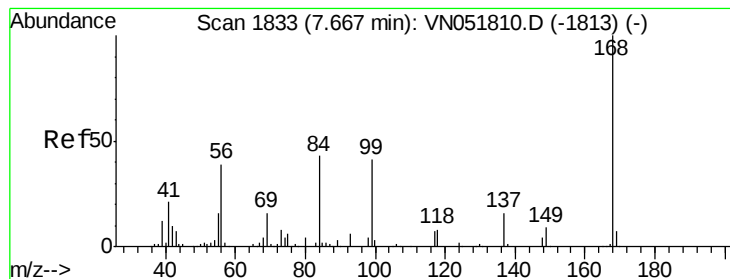
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	145927	19.42	ug/l	99
94) Hexachlorobutadiene	15.01	225	100245	19.10	ug/l	98
95) Naphthalene	15.13	128	329079	20.33	ug/l	99
96) 1,2,3-Trichlorobenzene	15.32	180	157286	20.67	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN051819.D

Acq: 11 Oct 2018 18:19

Instrument :

MSVOA_N

ClientSampleId :

VN1011WBSD01

Tgt Ion: 168 Resp: 823899

Ion Ratio Lower Upper

168 100

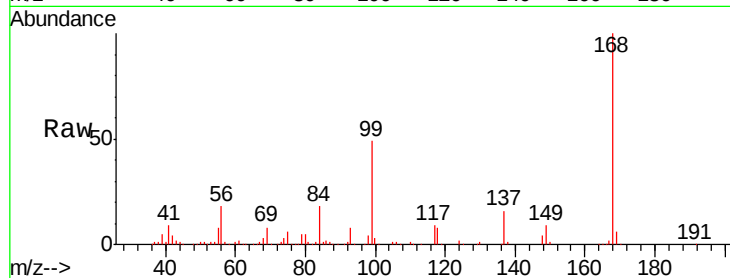
99 48.8 39.6 59.4

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

400000

300000

200000

100000

0

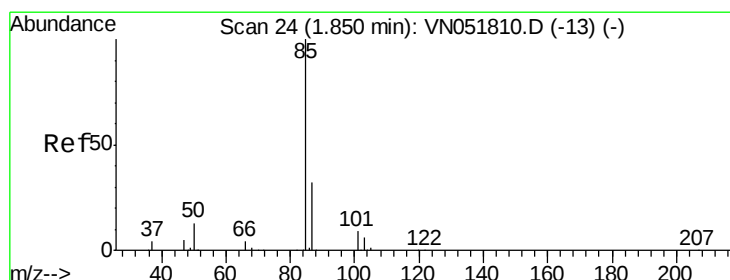
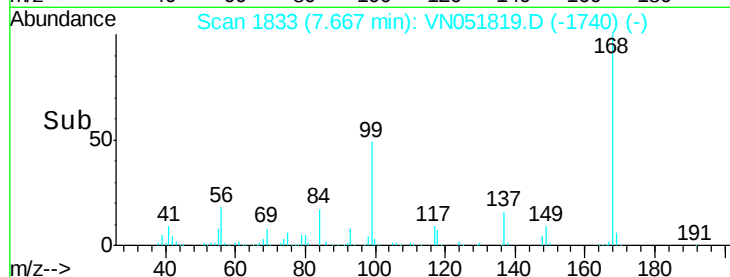
7.67

7.60

7.70

7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 18.25 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN051819.D

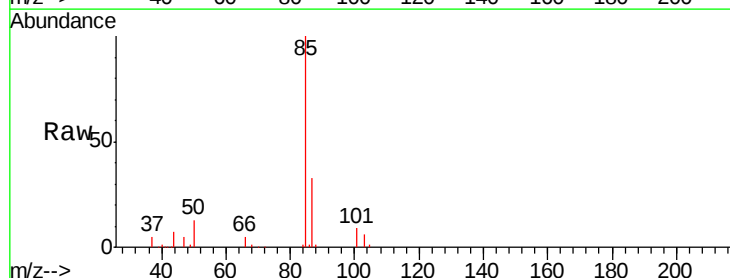
Acq: 11 Oct 2018 18:19

Tgt Ion: 85 Resp: 83470

Ion Ratio Lower Upper

85 100

87 32.6 16.4 49.1



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

60000

40000

20000

0

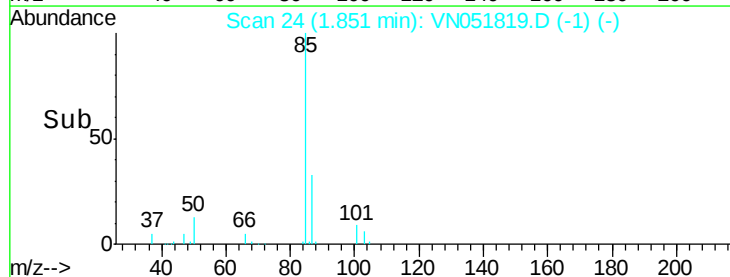
1.85

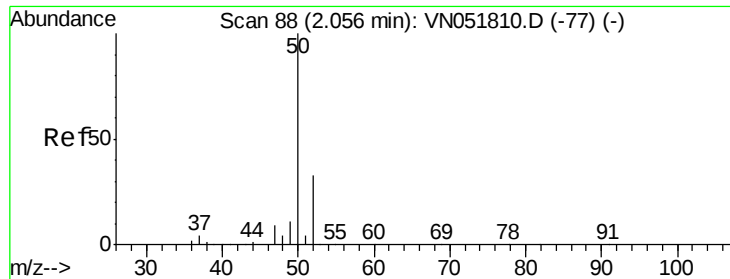
1.80

1.90

1.95

Time-->





#3

Chloromethane

Concen: 20.14 ug/l

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN051819.D

Acq: 11 Oct 2018 18:19

Instrument :

MSVOA_N

ClientSampleId :

VN1011WBSD01

Tgt Ion: 50 Resp: 111554

Ion Ratio Lower Upper

50 100

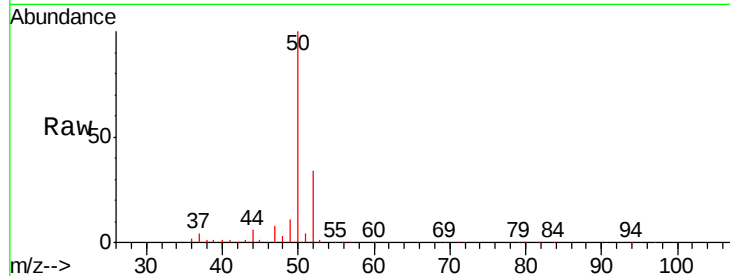
52 33.8 26.3 39.5

Manual Integrations

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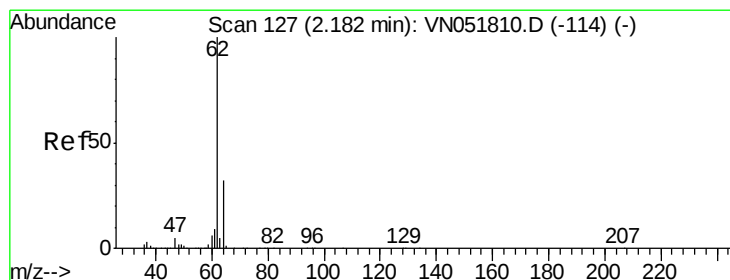
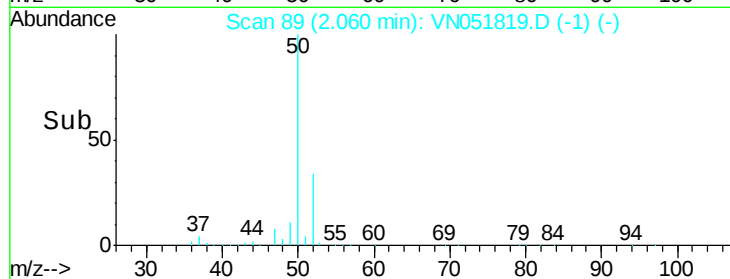
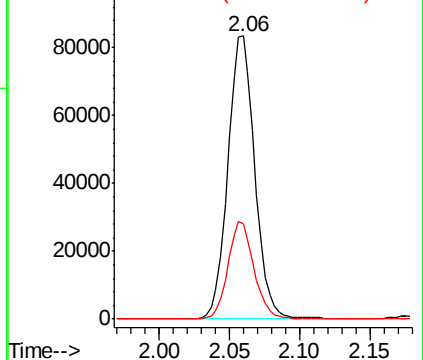
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Abundance Ion 49.90 (49.60 to 50.60): VNC

Ion 51.90 (51.60 to 52.60): VNC



#4

Vinyl Chloride

Concen: 20.26 ug/l

RT: 2.18 min Scan# 127

Delta R.T. 0.00 min

Lab File: VN051819.D

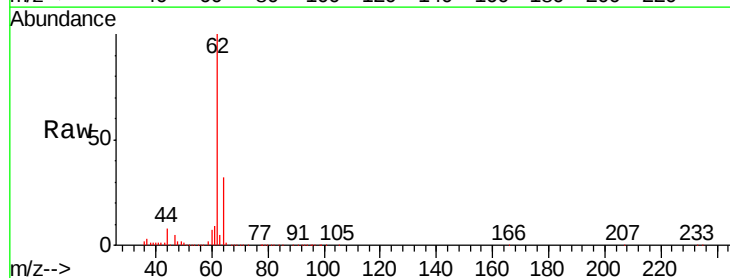
Acq: 11 Oct 2018 18:19

Tgt Ion: 62 Resp: 168336

Ion Ratio Lower Upper

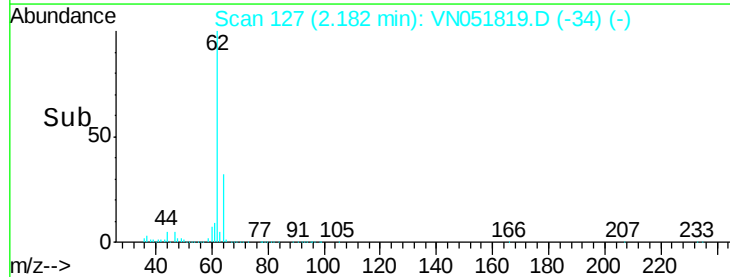
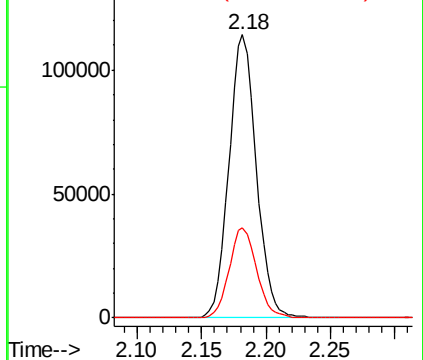
62 100

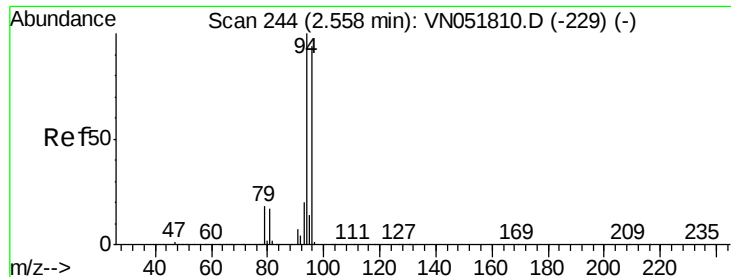
64 32.0 25.4 38.2



Abundance Ion 61.90 (61.60 to 62.60): VNC

Ion 63.90 (63.60 to 64.60): VNC





#5

Bromomethane

Concen: 20.22 ug/l

RT: 2.56 min Scan# 246

Delta R.T. 0.01 min

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Acq: 11 Oct 2018 18:19

Instrument :

MSVOA_N

ClientSampleId :

VN1011WBSD01

Tgt Ion: 94 Resp: 151540

Ion Ratio Lower Upper

94 100

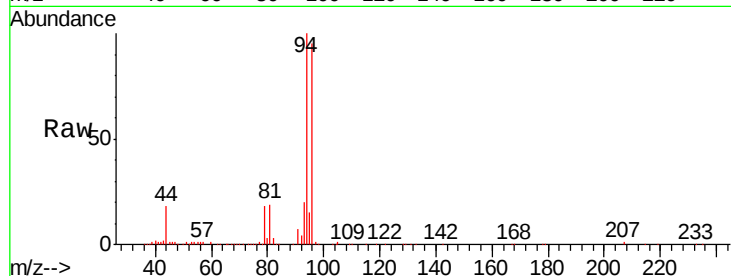
96 95.1 76.2 114.2

Manual Integrations

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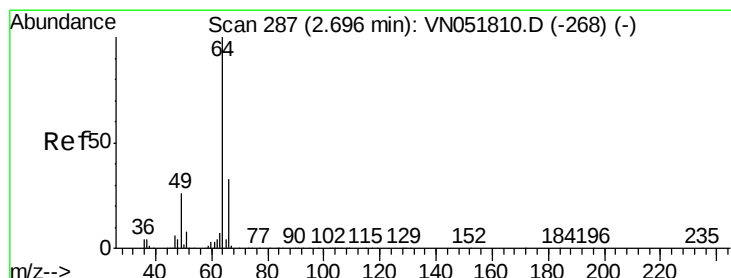
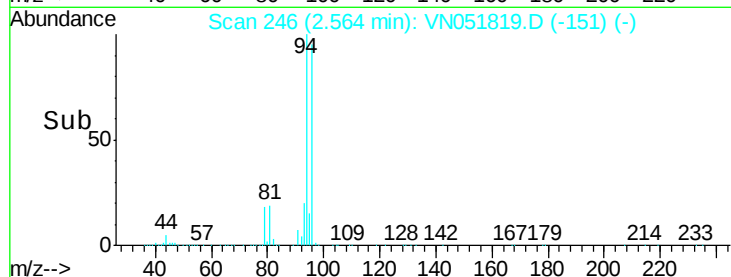
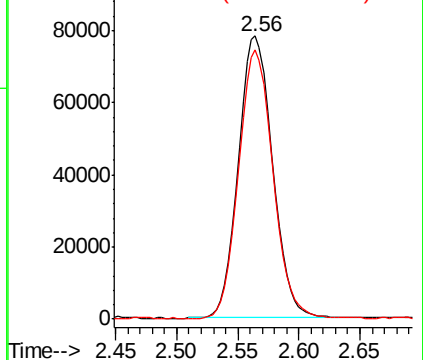
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Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 20.27 ug/l

RT: 2.70 min Scan# 288

Delta R.T. 0.00 min

Lab File: VN051819.D

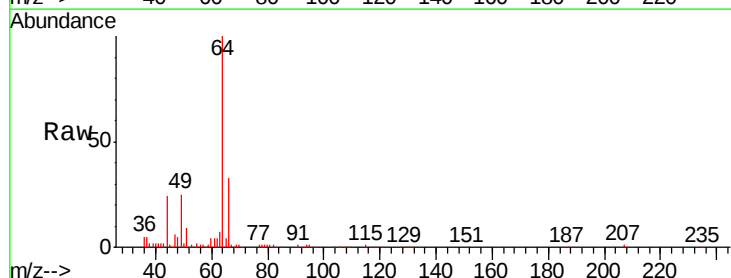
Acq: 11 Oct 2018 18:19

Tgt Ion: 64 Resp: 123651

Ion Ratio Lower Upper

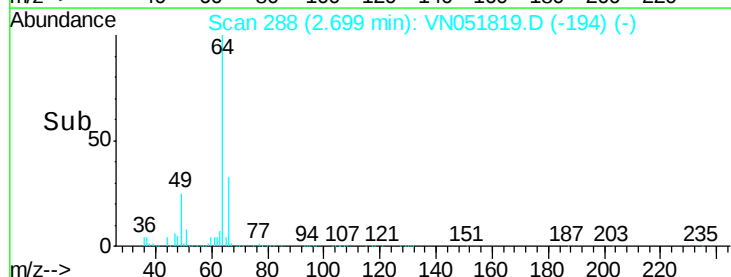
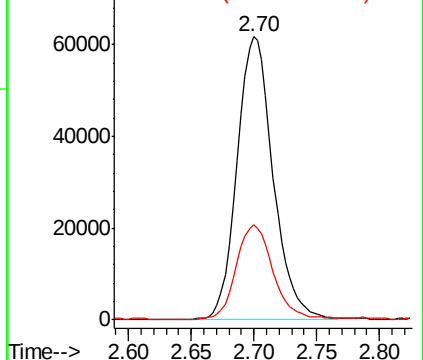
64 100

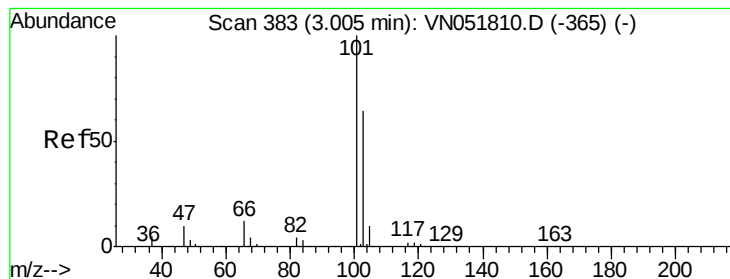
66 33.4 25.3 37.9



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#7

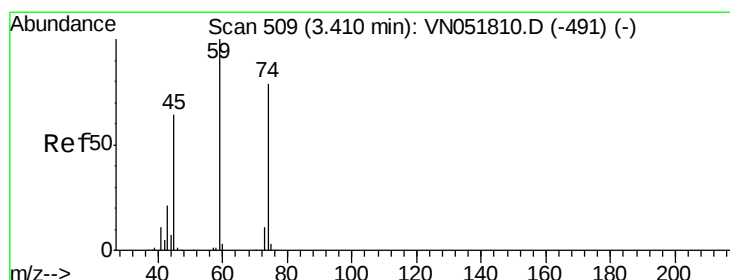
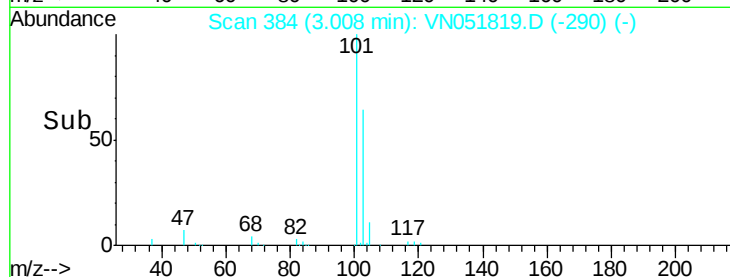
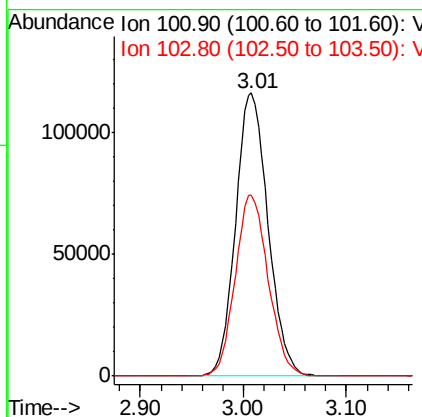
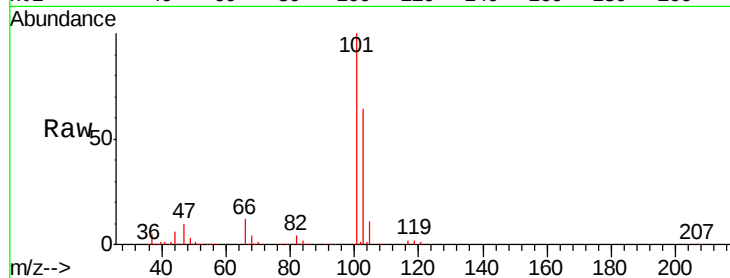
Trichlorofluoromethane
 Concen: 20.68 ug/l
 RT: 3.01 min Scan# 384
 Delta R.T. 0.00 min
 Lab File: VN051819.D
 Acq: 11 Oct 2018 18:19

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Tgt Ion	Ratio	Resp	Lower	Upper
101	100	255113		
103	63.8	51.6	77.4	

Manual Integrations
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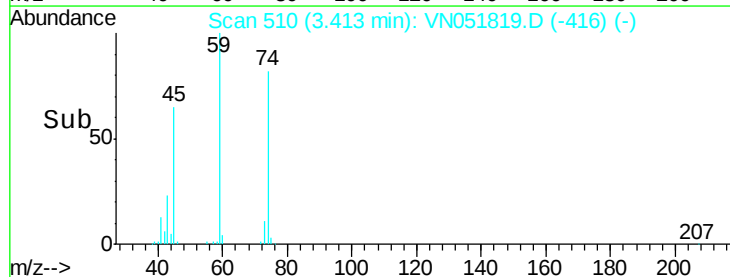
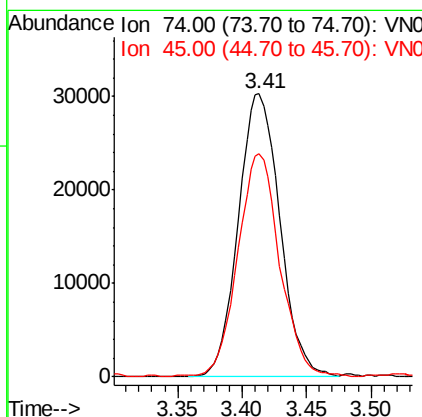
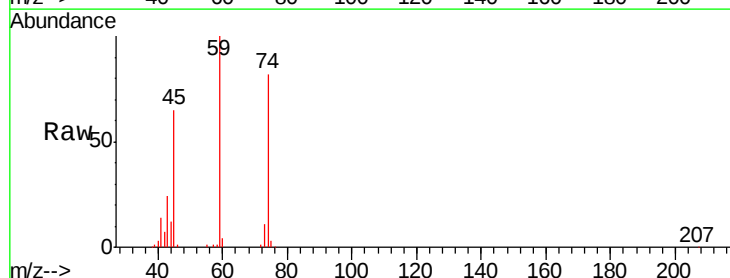
MMDadoda
 10/15/2018 3:00:13 PM

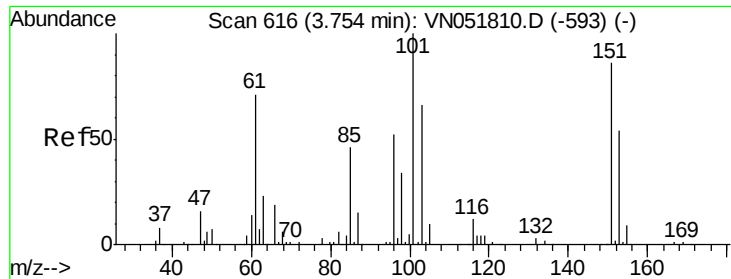


#8

Diethyl Ether
 Concen: 20.02 ug/l
 RT: 3.41 min Scan# 510
 Delta R.T. 0.00 min
 Lab File: VN051819.D
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Tgt Ion	Ratio	Resp	Lower	Upper
74	100	68110		
45	79.6	48.2	144.6	





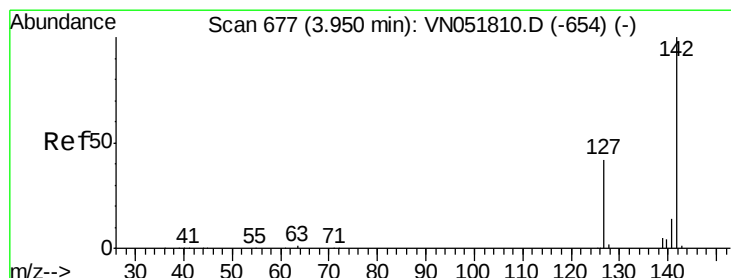
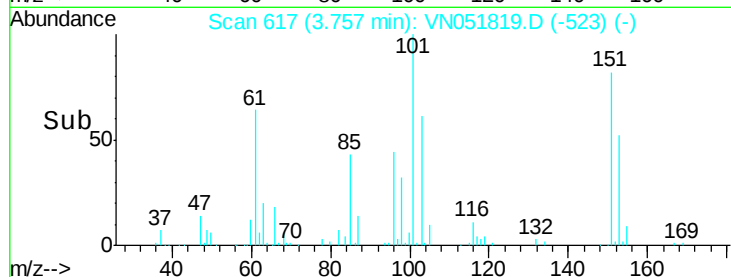
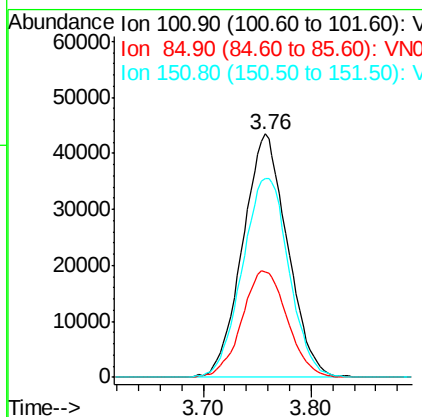
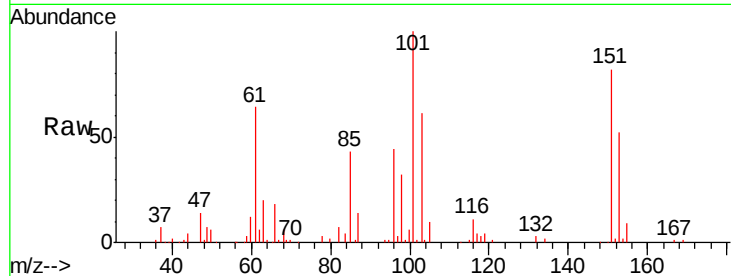
#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 19.02 ug/l
 RT: 3.76 min Scan# 617
 Delta R.T. 0.00 min
 Lab File: VN051819.D
 Acq: 11 Oct 2018 18:19

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1011WBSD01

Tgt Ion	Ratio	Resp	Lower	Upper
101	100	125159		
85	44.4	33.7	50.5	
151	85.1	67.4	101.2	

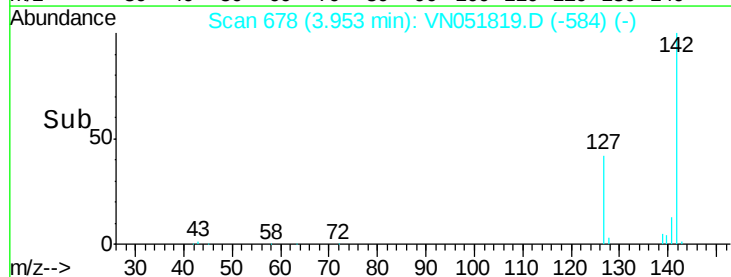
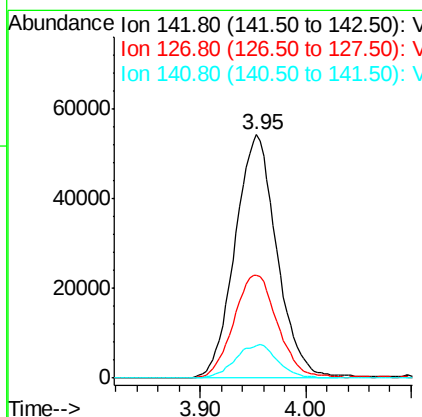
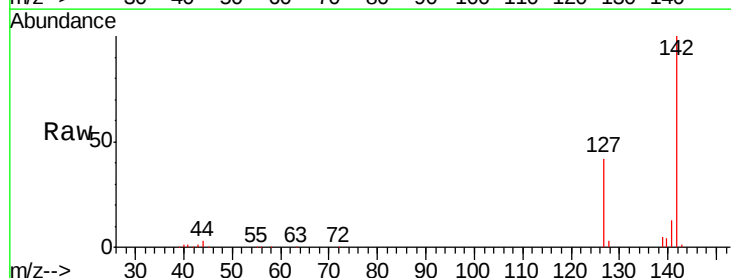
Manual Integrations
 APPROVED

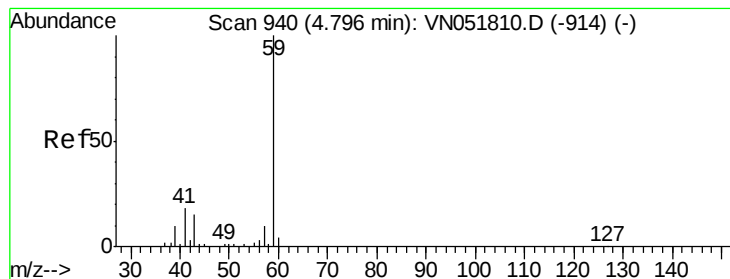
MMDadoda
 10/15/2018 3:00:13 PM



#10
 Methyl Iodide
 Concen: 17.21 ug/l
 RT: 3.95 min Scan# 678
 Delta R.T. 0.00 min
 Lab File: VN051819.D
 Acq: 11 Oct 2018 18:19

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	149158		
127	44.6	31.7	47.5	
141	14.0	11.4	17.0	





#11

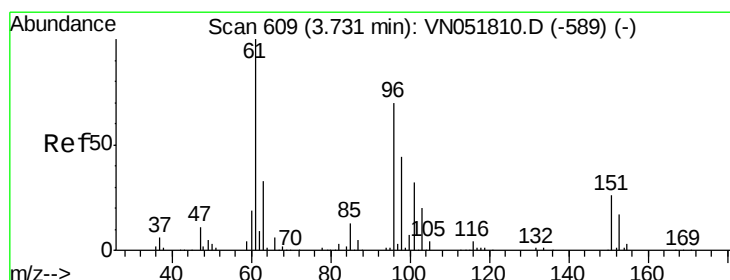
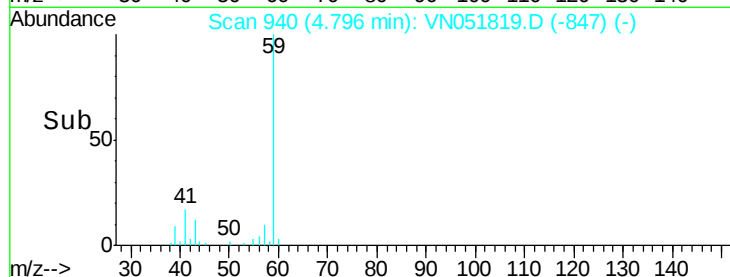
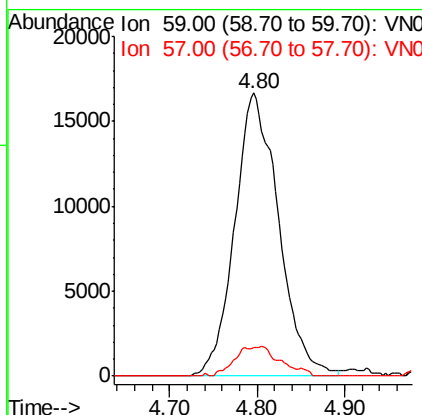
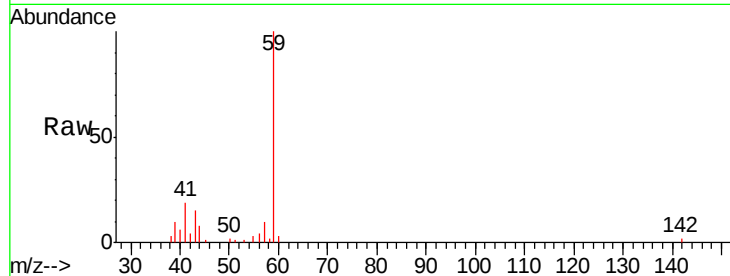
Tert butyl alcohol
 Concen: 100.12 ug/l
 RT: 4.80 min Scan# 940
 Delta R.T. 0.00 min
 Lab File: VN051819.D
 Acq: 11 Oct 2018 18:19

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1011WBSD01

Tgt Ion: 59 Resp: 57985
 Ion Ratio Lower Upper
 59 100
 57 4.2 8.3 12.5#

Manual Integrations
 APPROVED

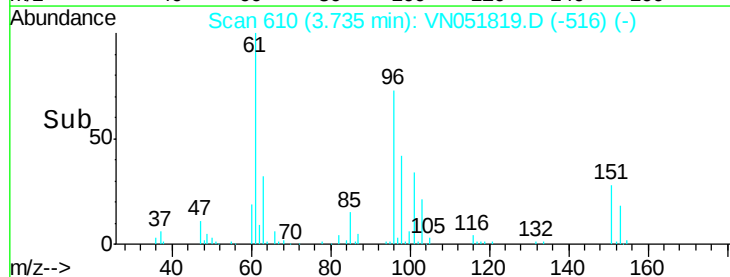
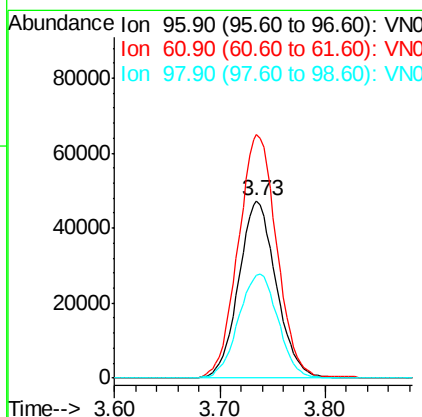
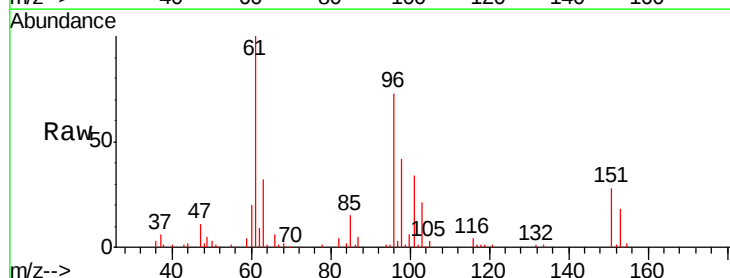
MMDadoda
 10/15/2018 3:00:13 PM

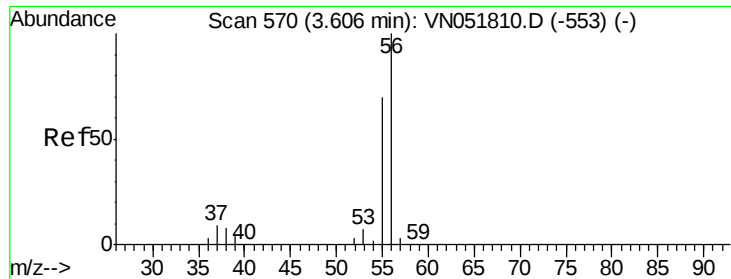


#12

1,1-Dichloroethene
 Concen: 19.79 ug/l
 RT: 3.73 min Scan# 610
 Delta R.T. 0.00 min
 Lab File: VN051819.D
 Acq: 11 Oct 2018 18:19

Tgt Ion: 96 Resp: 117034
 Ion Ratio Lower Upper
 96 100
 61 137.2 124.9 187.3
 98 57.9 51.1 76.7





#13

Acrolein

Concen: 105.13 ug/l

RT: 3.61 min Scan# 572

Delta R.T. 0.01 min

Lab File: VN051819.D

Acq: 11 Oct 2018 18:19

Instrument :

MSVOA_N

ClientSampleId :

VN1011WBSD01

Tgt Ion: 56 Resp: 56560

Ion Ratio Lower Upper

56 100

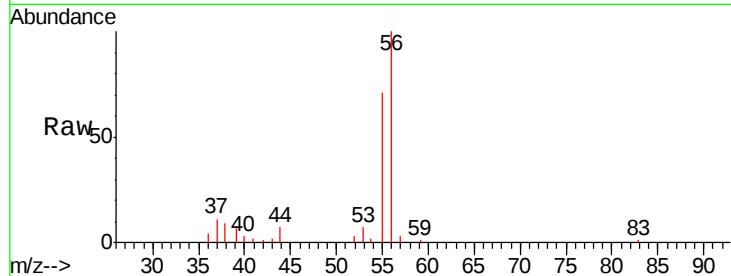
55 73.8 57.7 86.5

Manual Integrations

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MMDadoda

10/15/2018 3:00:13 PM



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

25000

20000

15000

10000

5000

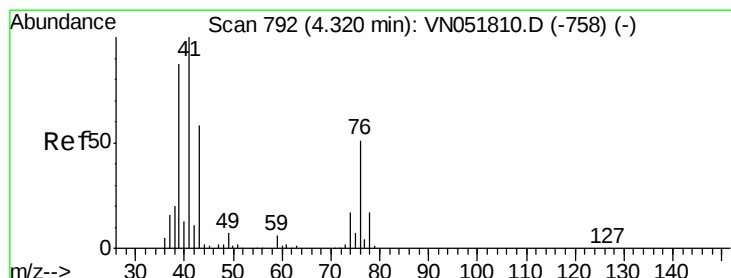
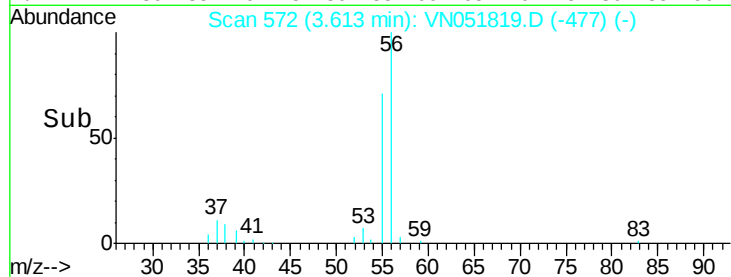
0

Time-->

3.50

3.60

3.70



#14

Allyl chloride

Concen: 19.69 ug/l

RT: 4.32 min Scan# 793

Delta R.T. 0.00 min

Lab File: VN051819.D

Acq: 11 Oct 2018 18:19

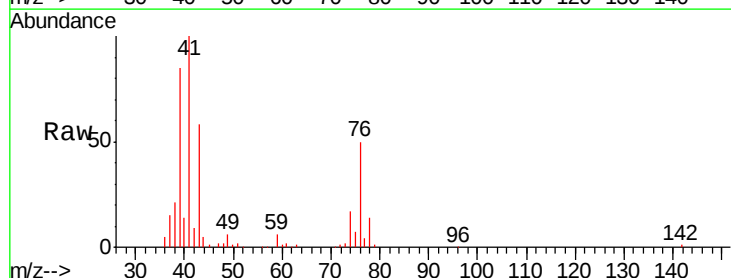
Tgt Ion: 41 Resp: 146158

Ion Ratio Lower Upper

41 100

39 84.1 50.2 75.2#

76 46.8 29.8 44.8#



Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0

60000

40000

20000

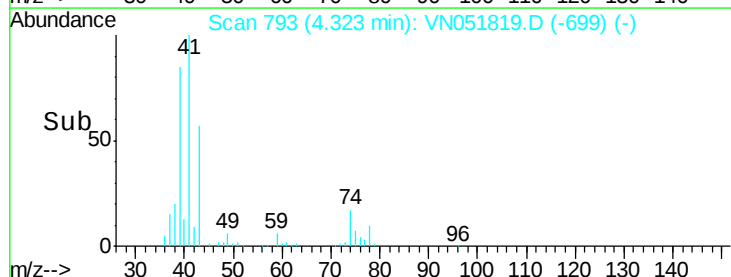
0

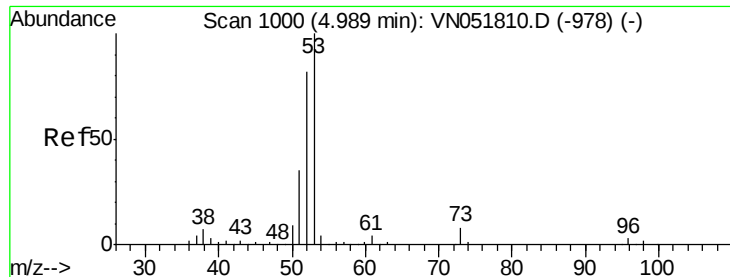
Time-->

4.20

4.30

4.40





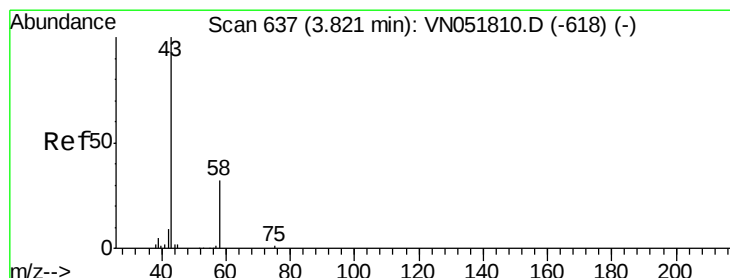
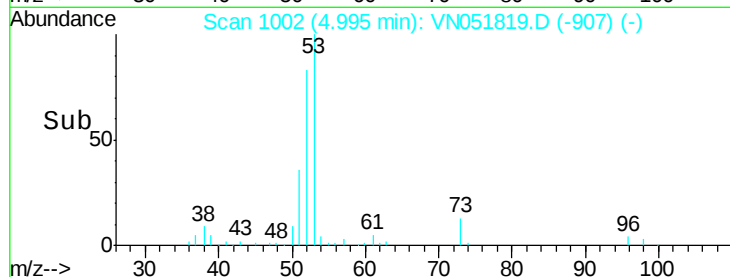
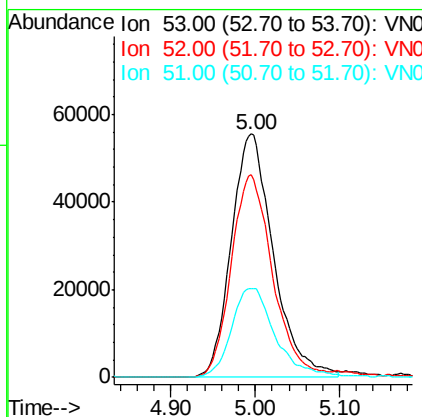
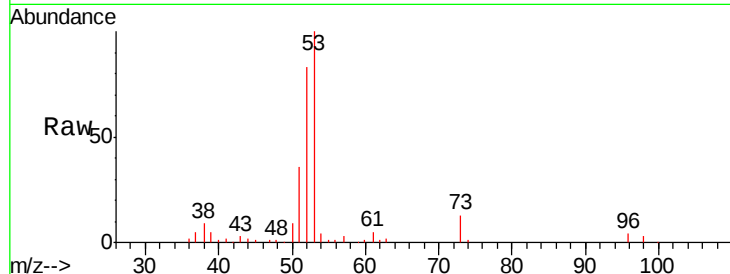
#15
 Acrylonitrile
 Concen: 102.45 ug/l
 RT: 5.00 min Scan# 1002
 Delta R.T. 0.01 min
 Lab File: VN051819.D
 Acq: 11 Oct 2018 18:19

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1011WBSD01

Tgt Ion	Ratio	Lower	Upper
53	100		
52	81.6	65.9	98.9
51	38.1	28.6	43.0

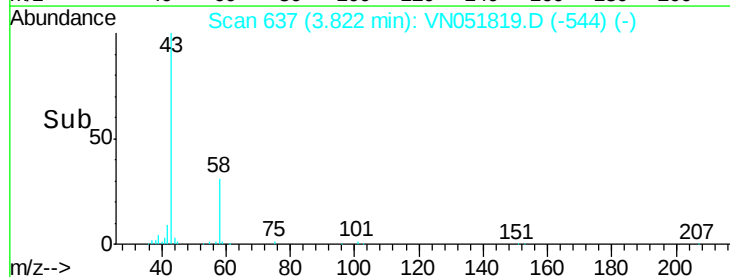
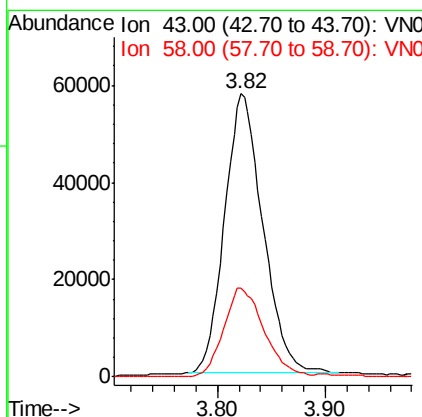
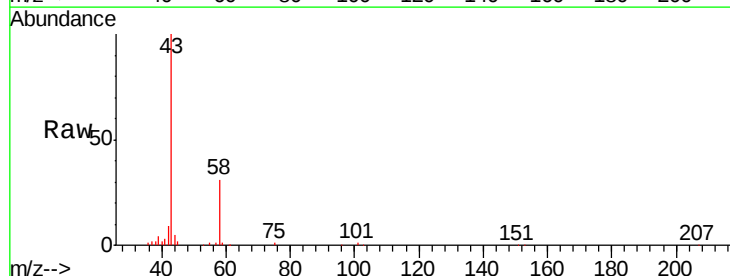
Manual Integrations
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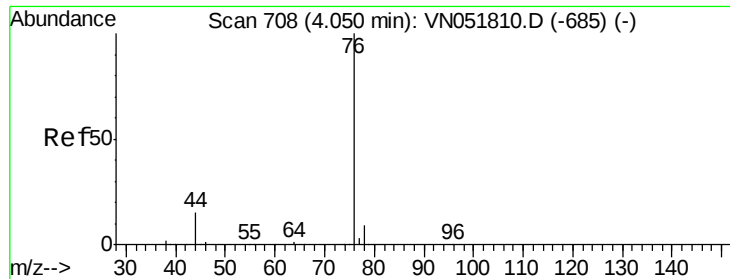
MMDadoda
 10/15/2018 3:00:13 PM



#16
 Acetone
 Concen: 83.61 ug/l
 RT: 3.82 min Scan# 637
 Delta R.T. 0.00 min
 Lab File: VN051819.D
 Acq: 11 Oct 2018 18:19

Tgt Ion	Ratio	Lower	Upper
43	100		
58	31.7	27.2	40.8





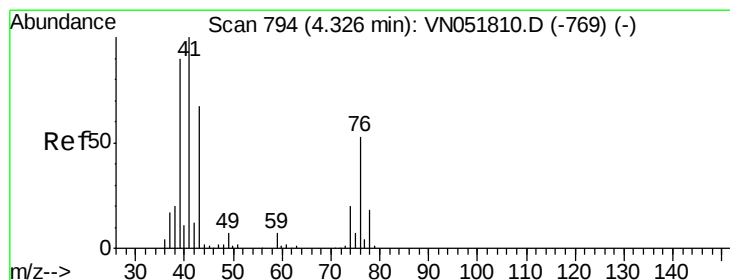
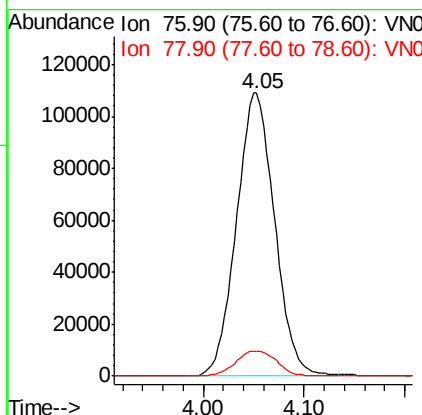
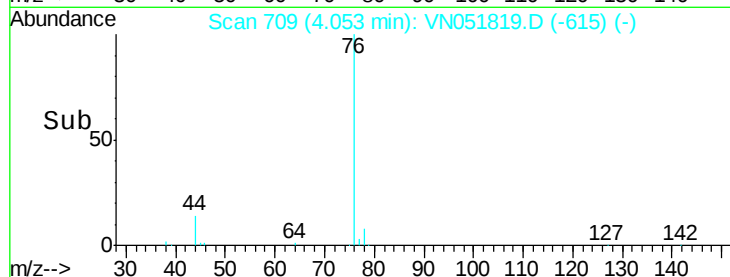
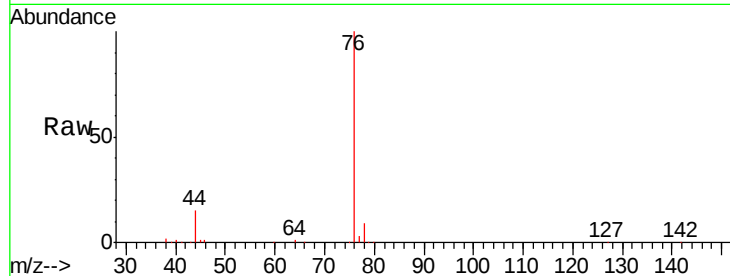
#17
Carbon Disulfide
Concen: 17.83 ug/l
RT: 4.05 min Scan# 709
Delta R.T. 0.00 min
Lab File: VN051819.D
Acq: 11 Oct 2018 18:19

Instrument :
MSVOA_N
ClientSampleId :
VN1011WBSD01

Tgt Ion	Ratio	Lower	Upper
76	100		
78	8.8	7.3	10.9

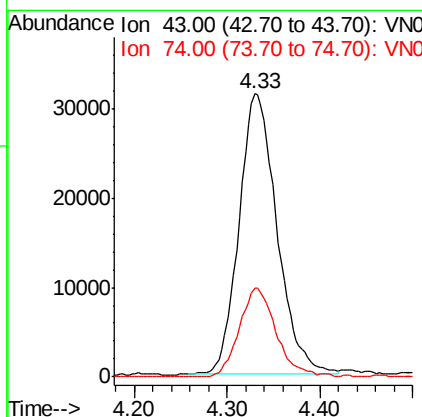
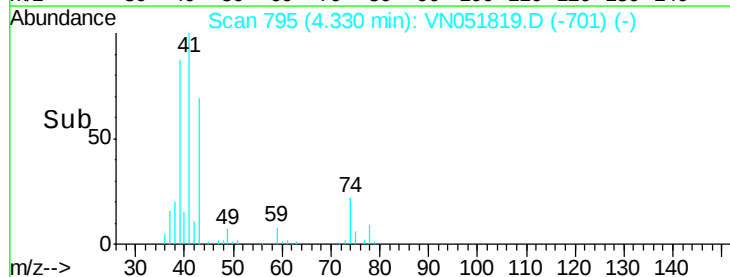
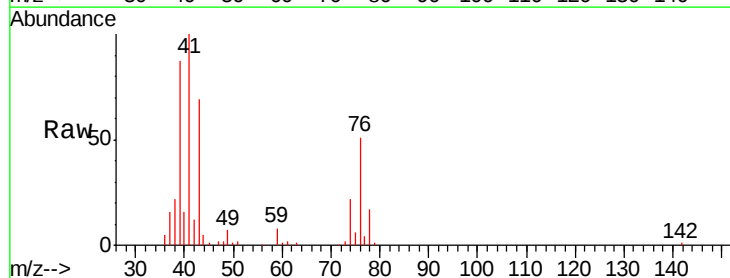
Manual Integrations
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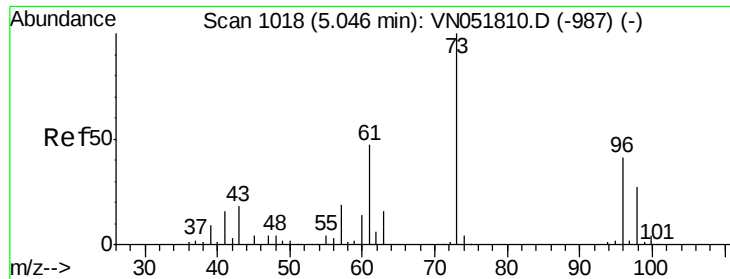
MMDadoda
10/15/2018 3:00:13 PM



#18
Methyl Acetate
Concen: 18.44 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.00 min
Lab File: VN051819.D
Acq: 11 Oct 2018 18:19

Tgt Ion	Ratio	Lower	Upper
43	100		
74	30.4	19.8	29.8#





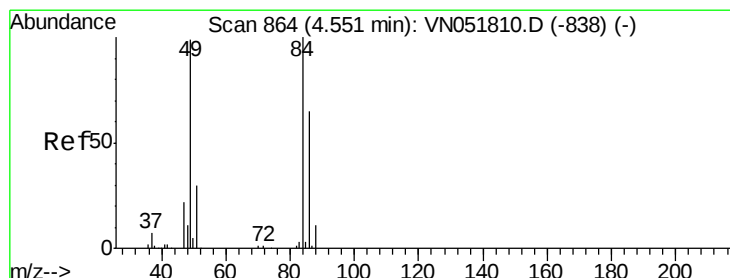
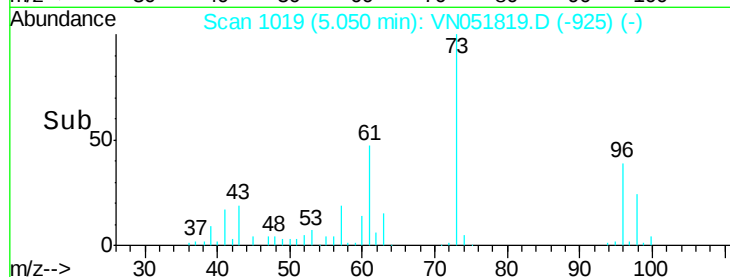
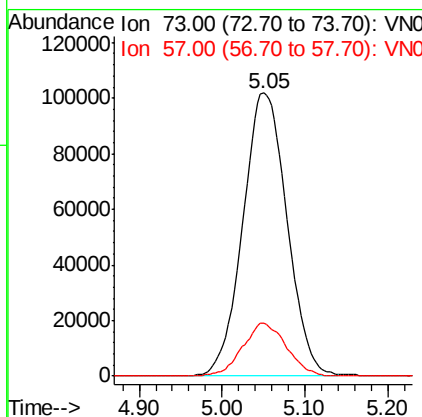
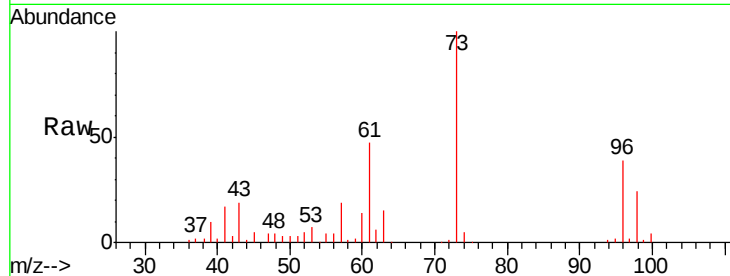
#19
Methyl tert-butyl Ether
Concen: 20.30 ug/l
RT: 5.05 min Scan# 1019
Delta R.T. 0.00 min
Lab File: VN051819.D
Acq: 11 Oct 2018 18:19

Instrument :
MSVOA_N
ClientSampleId :
VN1011WBSD01

Tgt Ion: 73 Resp: 377907
Ion Ratio Lower Upper
73 100
57 18.7 17.8 26.8

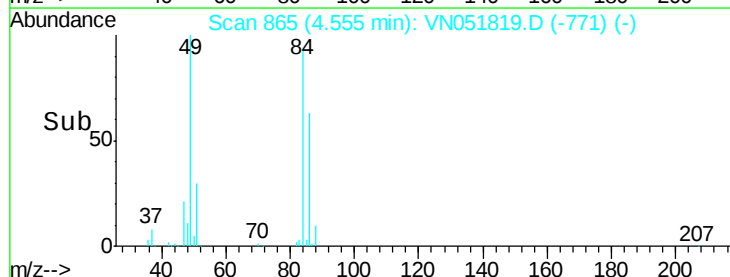
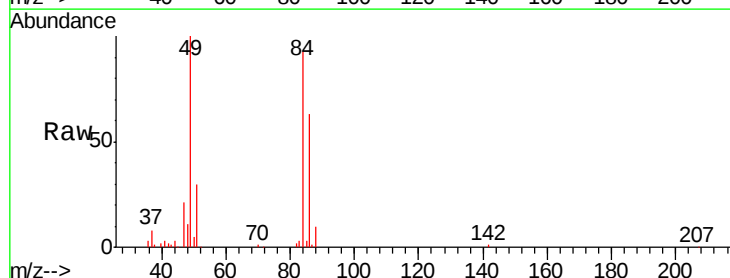
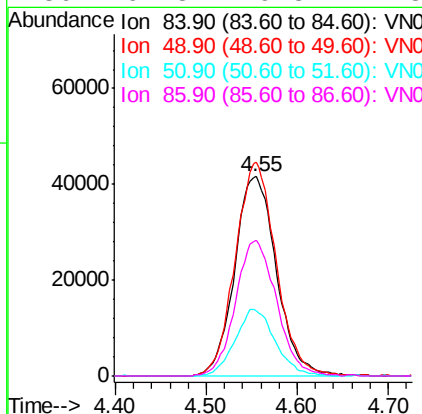
Manual Integrations
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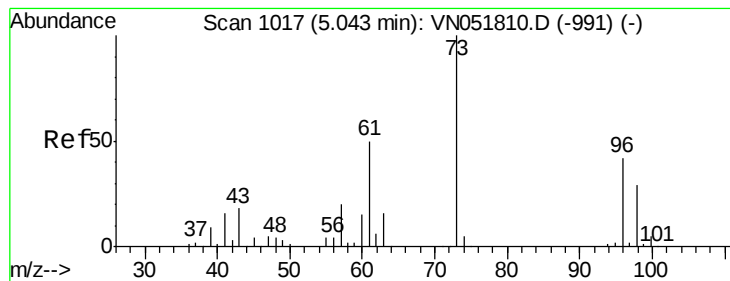
MMDadoda
10/15/2018 3:00:13 PM



#20
Methylene Chloride
Concen: 18.86 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN051819.D
Acq: 11 Oct 2018 18:19

Tgt Ion: 84 Resp: 132563
Ion Ratio Lower Upper
84 100
49 107.0 93.2 139.8
51 32.5 29.0 43.6
86 67.8 49.8 74.8





#21

trans-1,2-Dichloroethene

Concen: 19.13 ug/l

RT: 5.04 min Scan# 1017

Delta R.T. 0.00 min

Lab File: VN051819.D

Acq: 11 Oct 2018 18:19

Instrument :

MSVOA_N

ClientSampleId :

VN1011WBSD01

Tgt Ion: 96 Resp: 132838

Ion Ratio Lower Upper

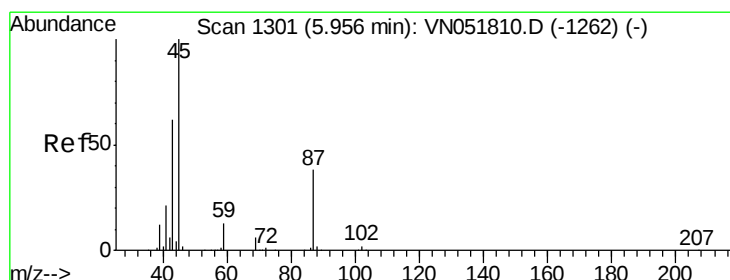
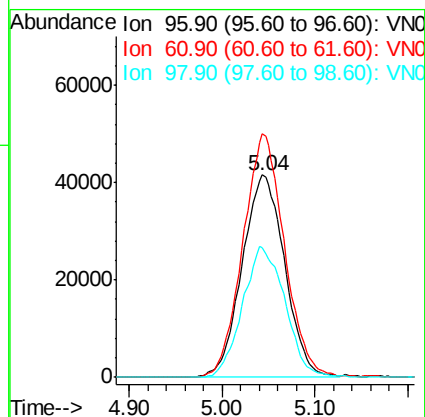
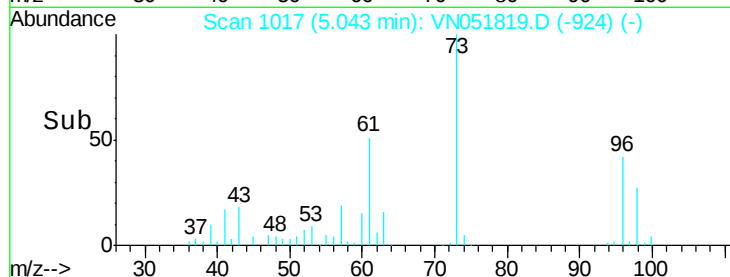
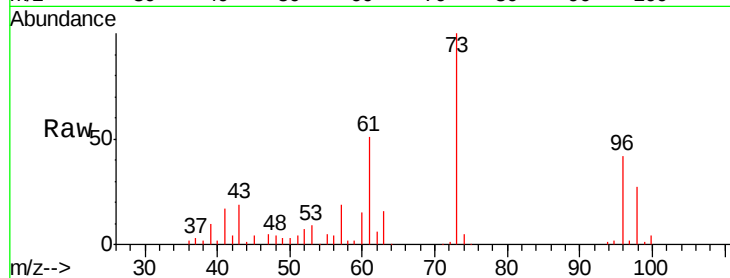
96 100

61 120.4 107.4 161.0

98 64.0 50.7 76.1

Manual Integrations
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MMDadoda
10/15/2018 3:00:13 PM



#22

Diisopropyl ether

Concen: 20.14 ug/l

RT: 5.96 min Scan# 1301

Delta R.T. 0.00 min

Lab File: VN051819.D

Acq: 11 Oct 2018 18:19

Tgt Ion: 45 Resp: 330442

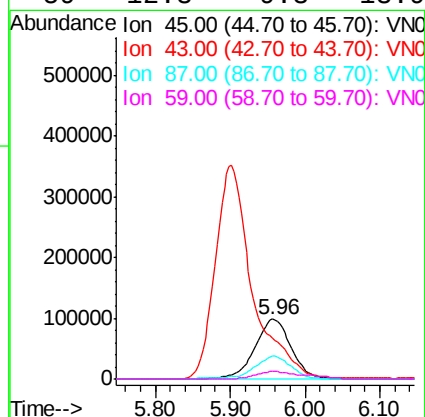
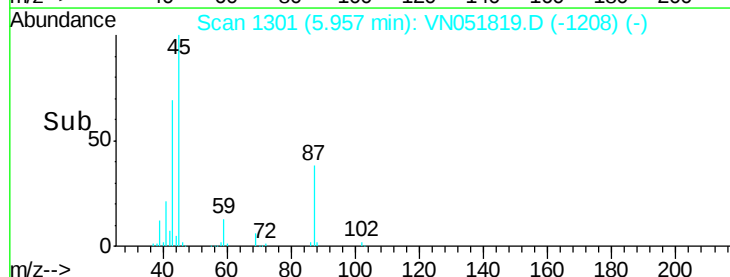
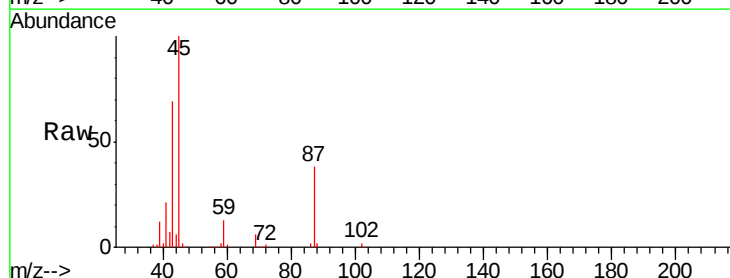
Ion Ratio Lower Upper

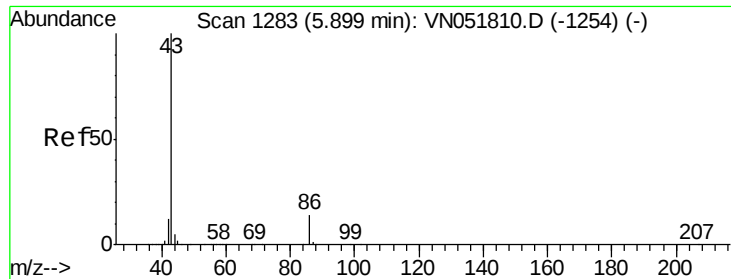
45 100

43 67.1 45.9 68.9

87 38.2 22.7 34.1#

59 12.3 9.3 13.9





#23

Vinyl Acetate

Concen: 100.93 ug/l

RT: 5.90 min Scan# 1284

Delta R.T. 0.00 min

Lab File: VN051819.D

Acq: 11 Oct 2018 18:19

Instrument :

MSVOA_N

ClientSampleId :

VN1011WBSD01

Tgt Ion: 43 Resp: 1211490

Ion Ratio Lower Upper

43 100

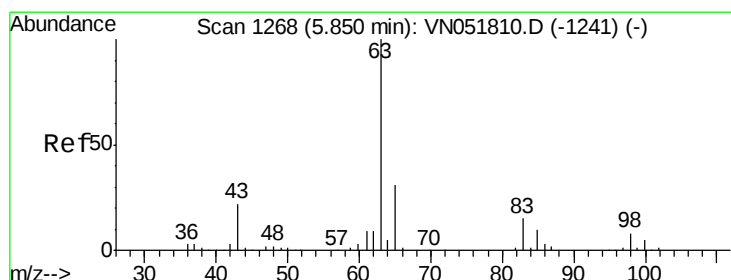
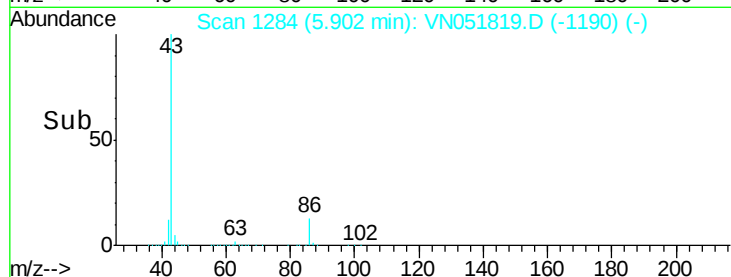
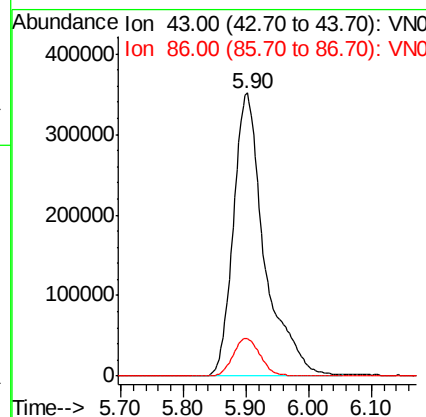
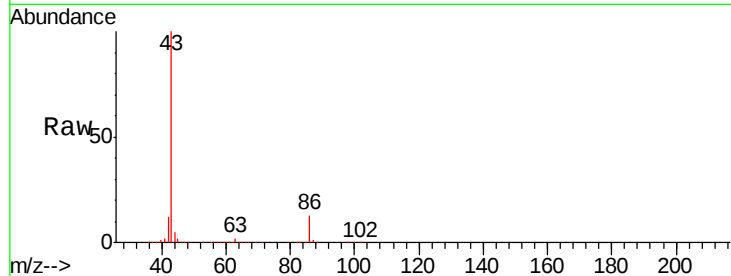
86 13.5 8.7 13.1#

Manual Integrations

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MMDadoda

10/15/2018 3:00:13 PM



#24

1,1-Dichloroethane

Concen: 19.73 ug/l

RT: 5.85 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VN051819.D

Acq: 11 Oct 2018 18:19

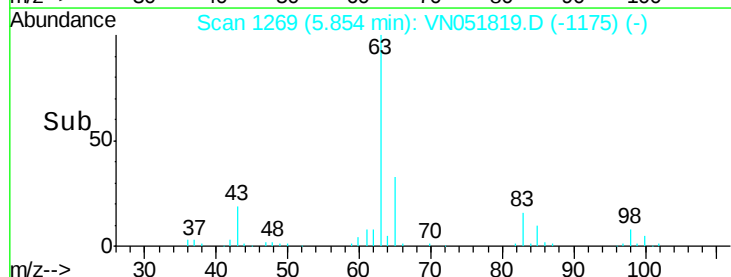
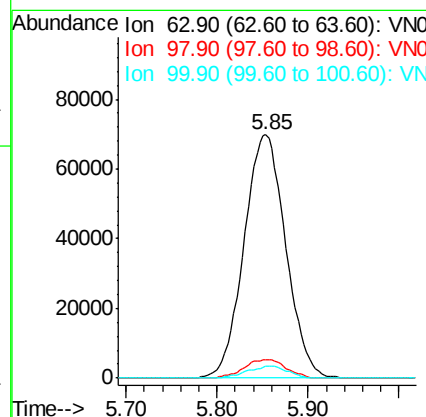
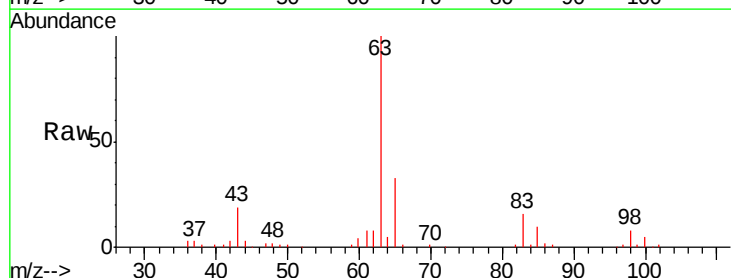
Tgt Ion: 63 Resp: 222360

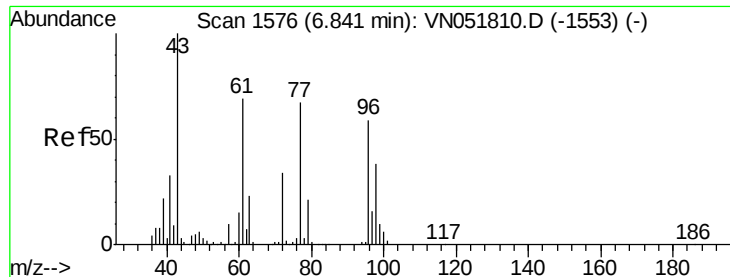
Ion Ratio Lower Upper

63 100

98 7.8 3.3 9.8

100 4.7 2.1 6.5





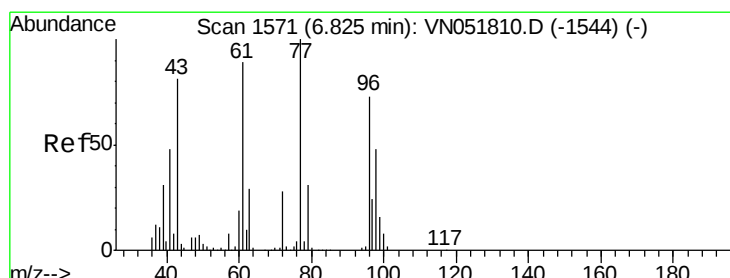
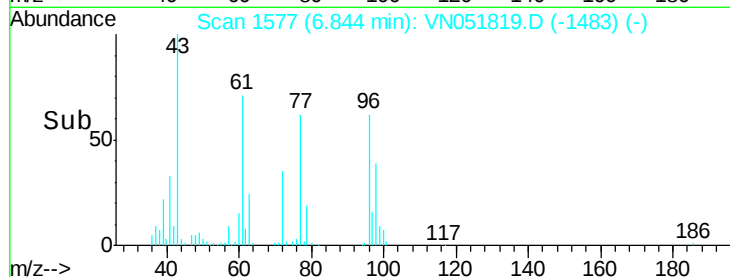
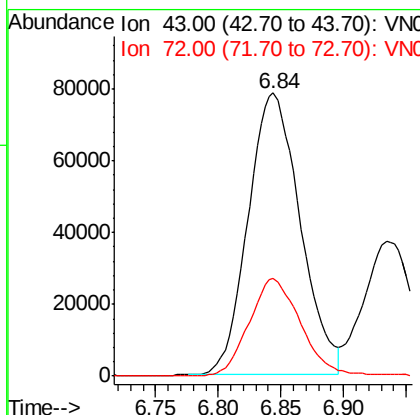
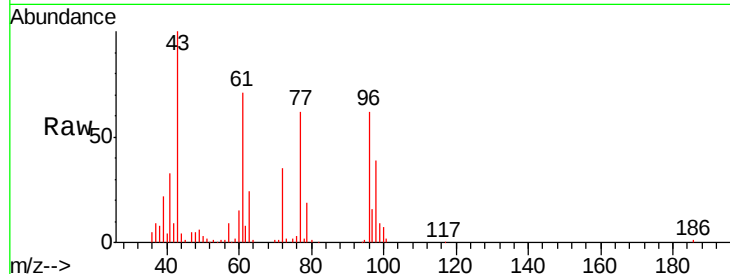
#25
2-Butanone
Concen: 94.64 ug/l
RT: 6.84 min Scan# 1577
Delta R.T. 0.00 min
Lab File: VN051819.D
Acq: 11 Oct 2018 18:19

Instrument :
MSVOA_N
ClientSampleId :
VN1011WBSD01

Tgt Ion: 43 Resp: 227134
Ion Ratio Lower Upper
43 100
72 34.8 22.3 33.5#

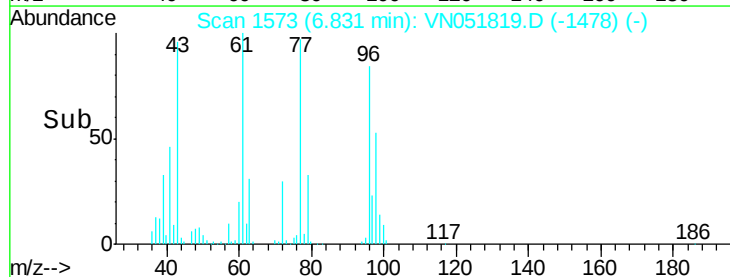
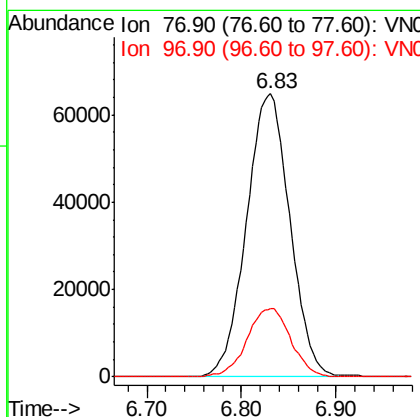
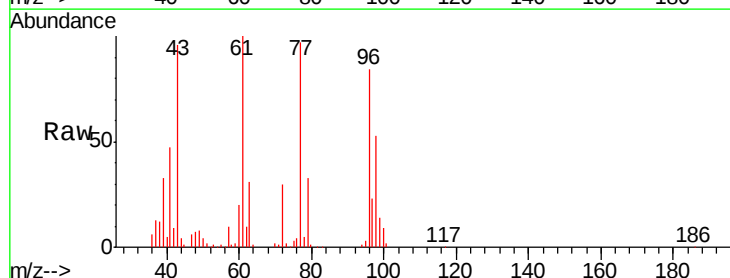
Manual Integrations
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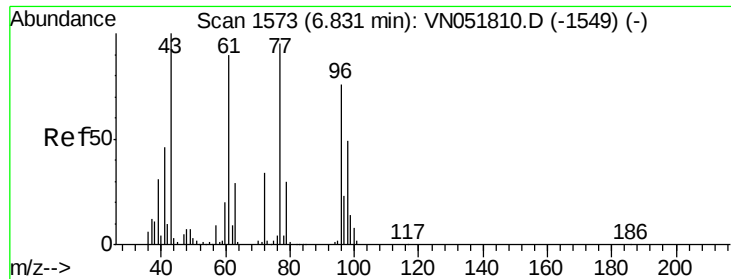
MMDadoda
10/15/2018 3:00:13 PM



#26
2,2-Dichloropropane
Concen: 18.08 ug/l
RT: 6.83 min Scan# 1573
Delta R.T. 0.01 min
Lab File: VN051819.D
Acq: 11 Oct 2018 18:19

Tgt Ion: 77 Resp: 206370
Ion Ratio Lower Upper
77 100
97 24.2 12.0 36.0





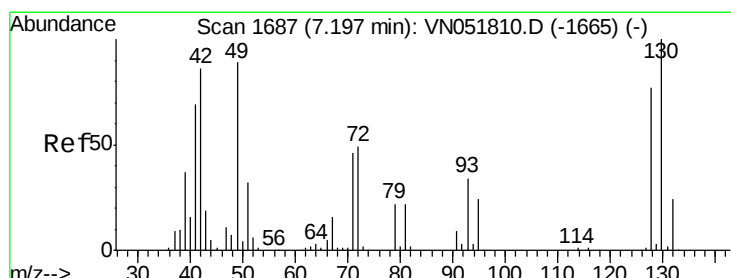
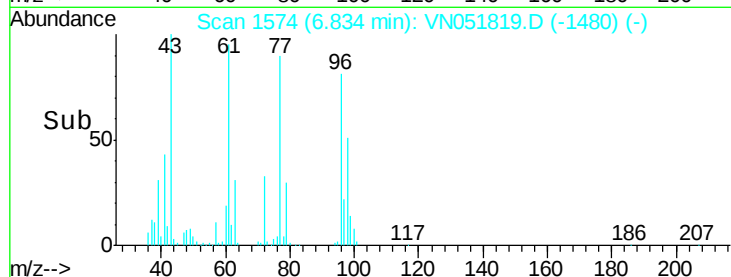
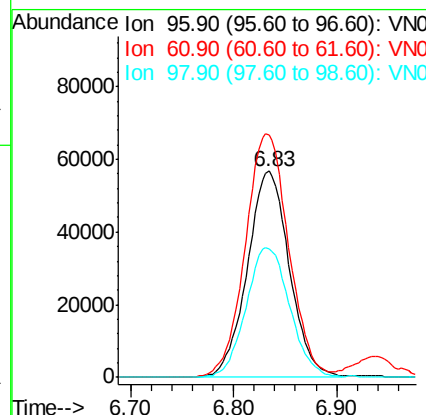
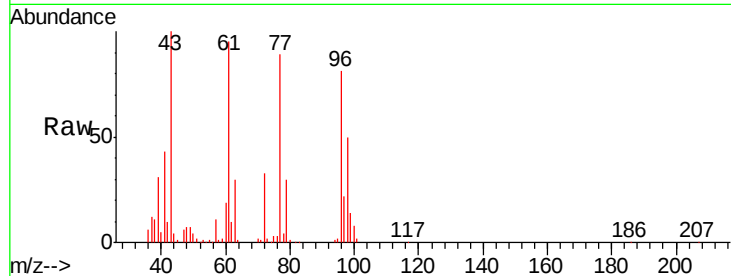
#27
 cis-1,2-Dichloroethene
 Concen: 20.11 ug/l
 RT: 6.83 min Scan# 1574
 Delta R.T. 0.00 min
 Lab File: VN051819.D
 Acq: 11 Oct 2018 18:19

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1011WBSD01

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	160926		
61	121.8	0.0	283.4	
98	65.3	0.0	129.8	

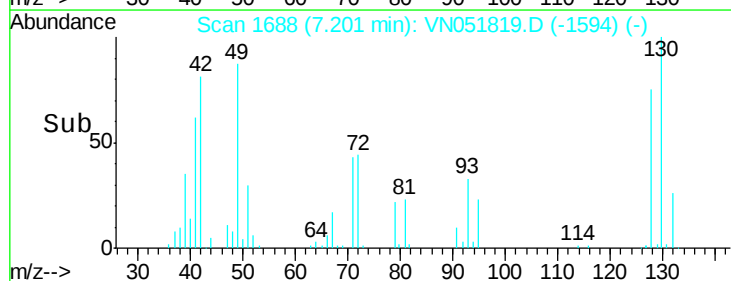
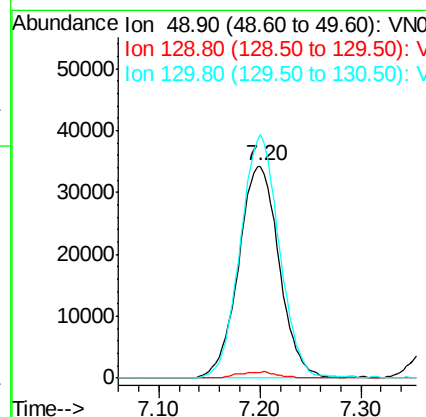
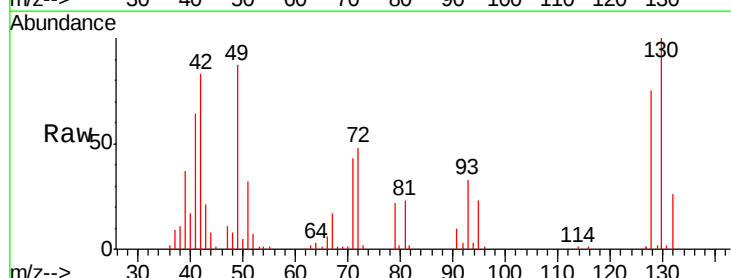
Manual Integrations
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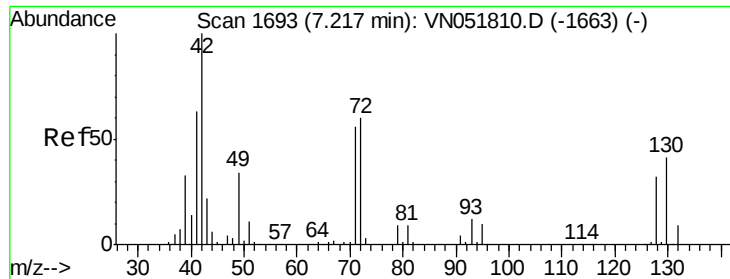
MMDadoda
 10/15/2018 3:00:13 PM



#28
 Bromochloromethane
 Concen: 20.28 ug/l
 RT: 7.20 min Scan# 1688
 Delta R.T. 0.00 min
 Lab File: VN051819.D
 Acq: 11 Oct 2018 18:19

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	95918		
129	1.3	0.0	4.2	
130	109.8	67.1	100.7#	





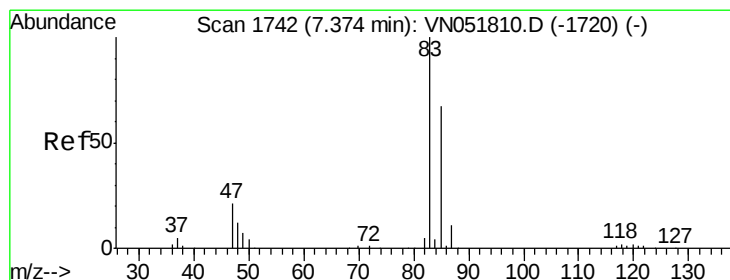
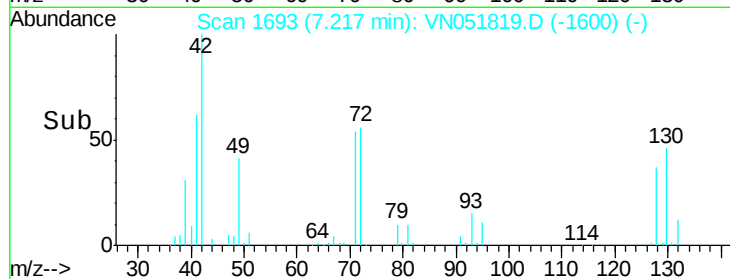
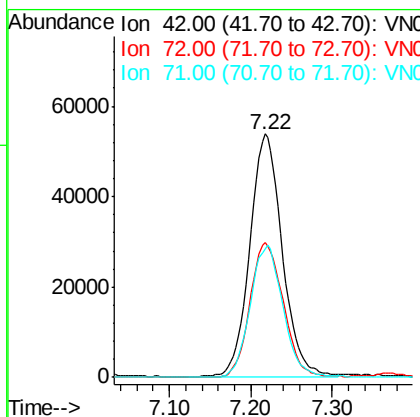
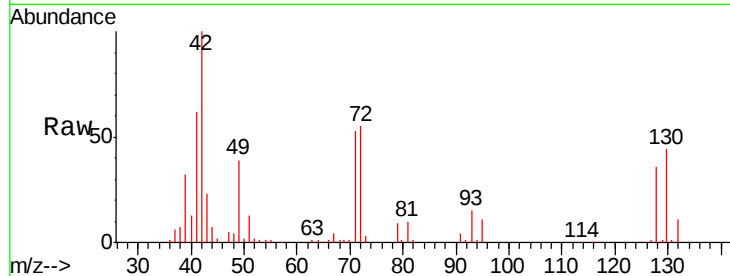
#29
Tetrahydrofuran
Concen: 104.05 ug/l
RT: 7.22 min Scan# 1693
Delta R.T. 0.00 min
Lab File: VN051819.D
Acq: 11 Oct 2018 18:19

Instrument :
MSVOA_N
ClientSampleId :
VN1011WBSD01

Tgt Ion: 42 Resp: 148815
Ion Ratio Lower Upper
42 100
72 56.1 35.5 53.3#
71 54.3 33.7 50.5#

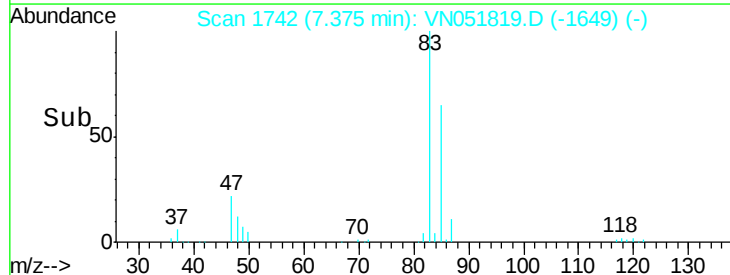
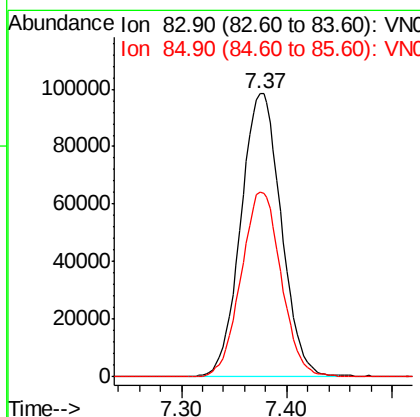
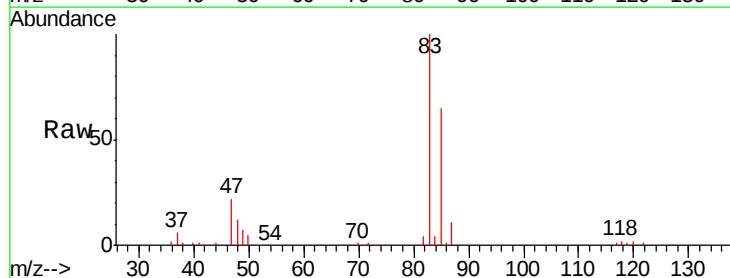
Manual Integrations
APPROVED

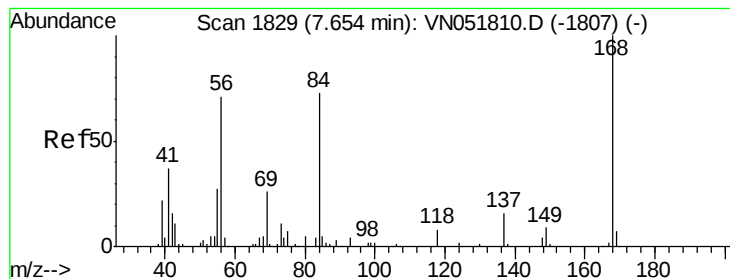
MMDadoda
10/15/2018 3:00:13 PM



#30
Chloroform
Concen: 19.44 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN051819.D
Acq: 11 Oct 2018 18:19

Tgt Ion: 83 Resp: 262007
Ion Ratio Lower Upper
83 100
85 65.2 52.2 78.4





#31

Cyclohexane

Concen: 19.70 ug/l

RT: 7.66 min Scan# 1830

Delta R.T. 0.00 min

Lab File: VN051819.D

Acq: 11 Oct 2018 18:19

Instrument :

MSVOA_N

ClientSampleId :

VN1011WBSD01

Tgt Ion: 56 Resp: 196662
Ion Ratio Lower Upper

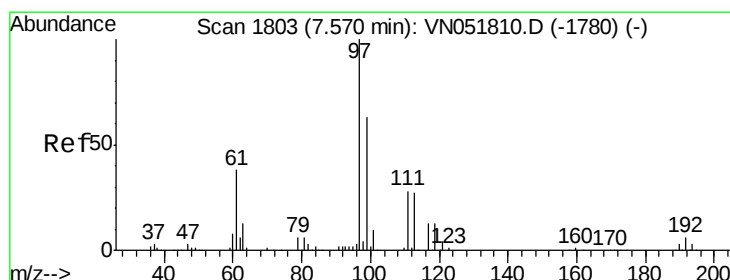
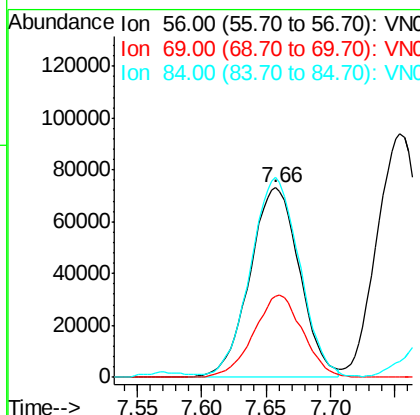
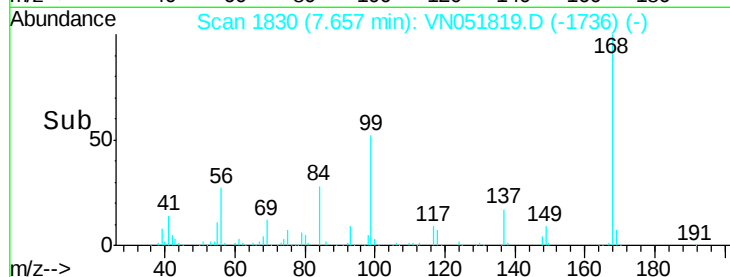
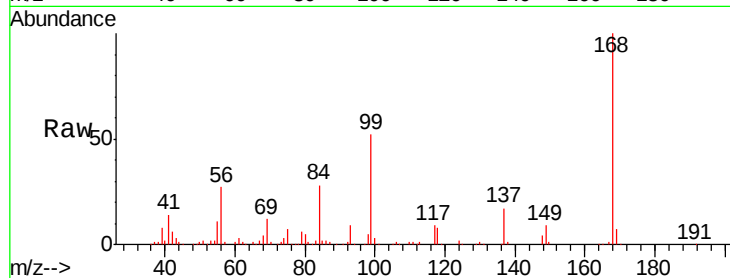
56 100

69 43.0 26.2 39.4#

84 103.6 68.3 102.5#

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#32

1,1,1-Trichloroethane

Concen: 19.54 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. 0.00 min

Lab File: VN051819.D

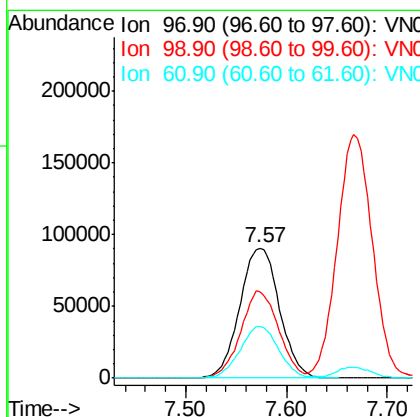
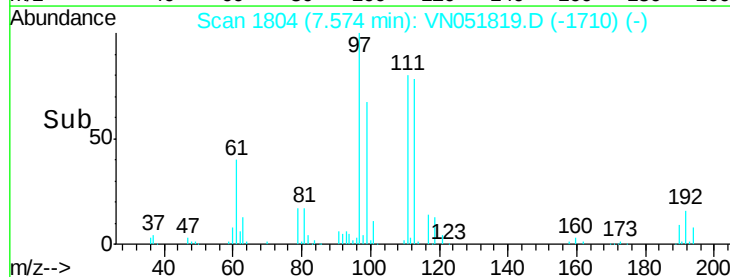
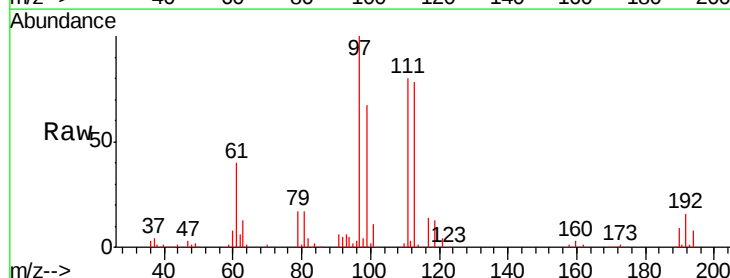
Acq: 11 Oct 2018 18:19

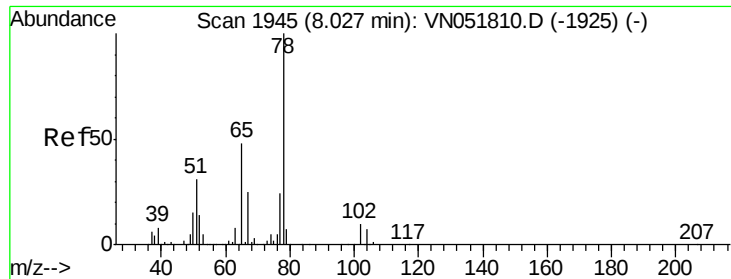
Tgt Ion: 97 Resp: 247260
Ion Ratio Lower Upper

97 100

99 63.9 51.8 77.6

61 38.8 34.9 52.3





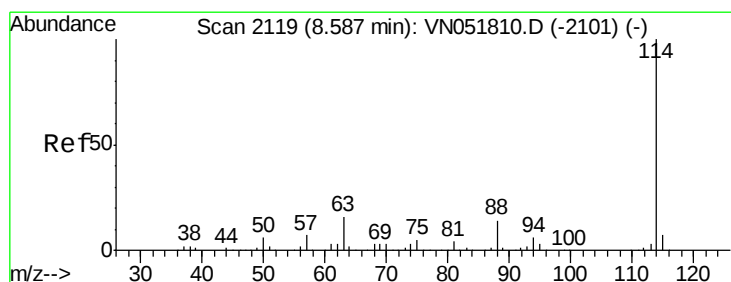
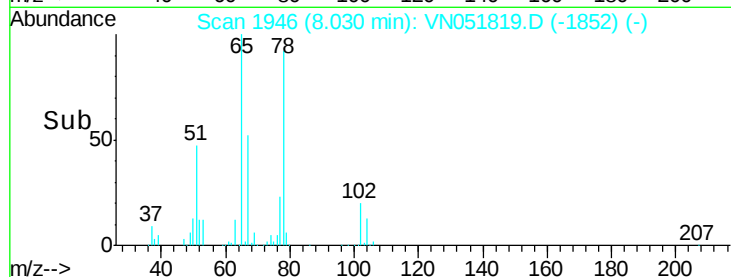
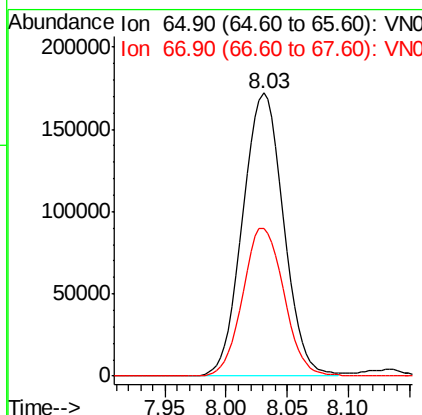
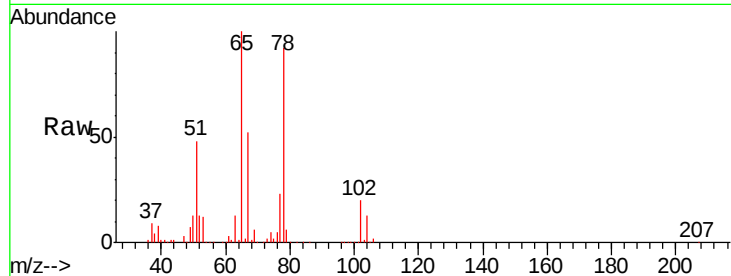
#33
 1,2-Dichloroethane-d4
 Concen: 19.54 ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN051819.D
 Acq: 11 Oct 2018 18:19

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1011WBSD01

Tgt Ion: 65 Resp: 400111
 Ion Ratio Lower Upper
 65 100
 67 52.8 0.0 110.4

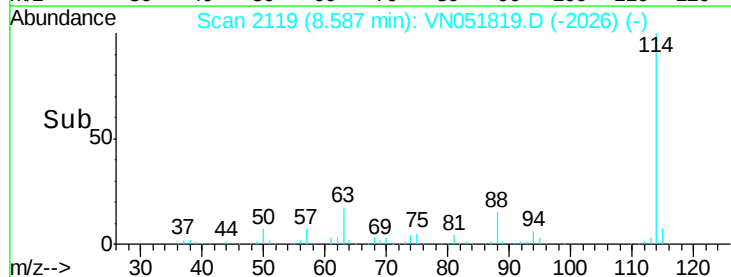
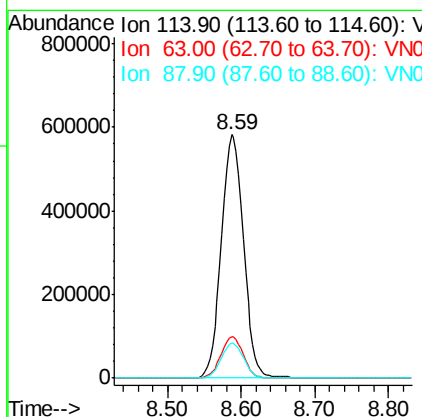
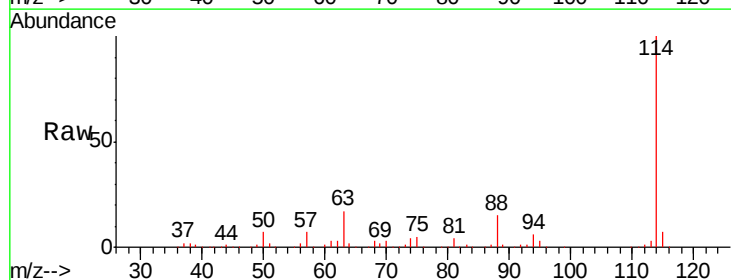
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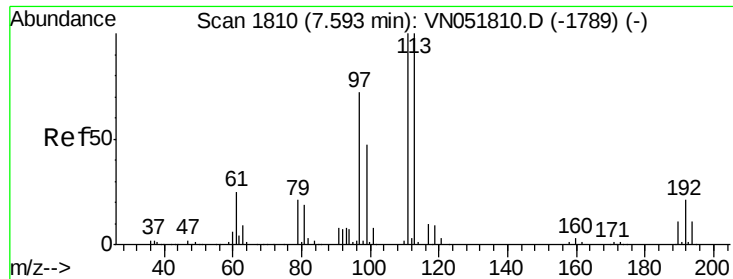
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#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN051819.D
 Acq: 11 Oct 2018 18:19

Tgt Ion: 114 Resp: 1225969
 Ion Ratio Lower Upper
 114 100
 63 17.2 0.0 38.6
 88 14.5 0.0 30.6





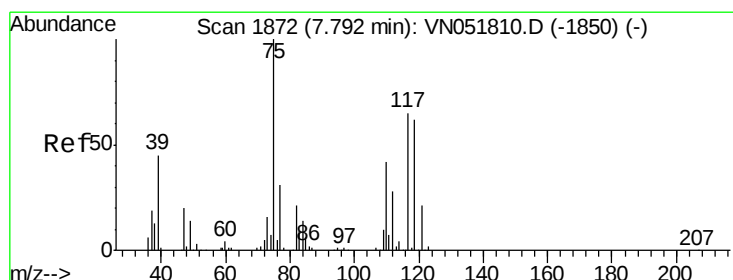
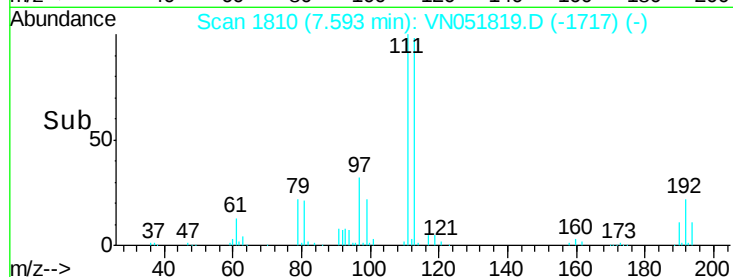
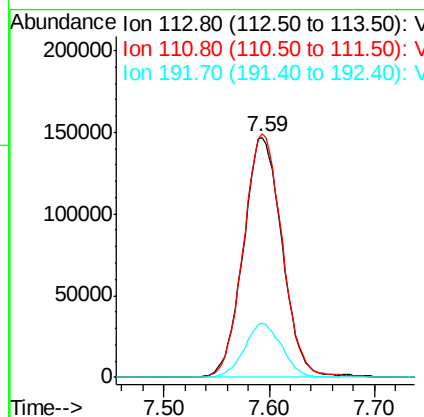
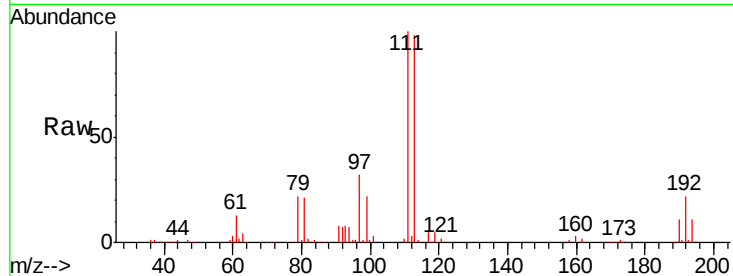
#35
 Dibromofluoromethane
 Concen: 50.00 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN051819.D
 Acq: 11 Oct 2018 18:19

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1011WBSD01

Tgt Ion	Ratio	Resp	Lower	Upper
113	100	374417		
111	101.7	82.6	123.8	
192	21.8	18.0	27.0	

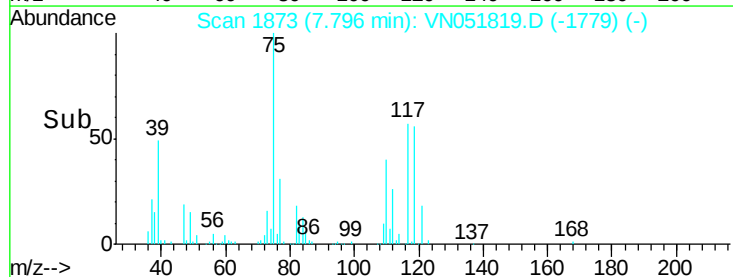
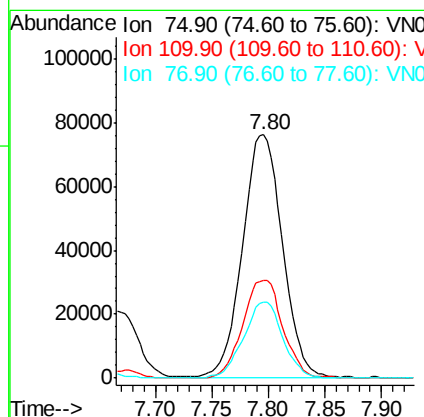
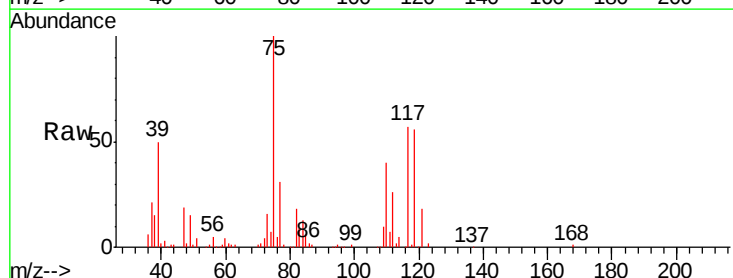
Manual Integrations
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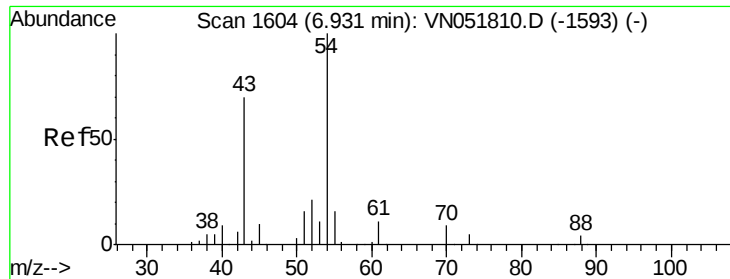
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 10/15/2018 3:00:13 PM



#36
 1,1-Dichloropropene
 Concen: 18.79 ug/l
 RT: 7.80 min Scan# 1873
 Delta R.T. 0.00 min
 Lab File: VN051819.D
 Acq: 11 Oct 2018 18:19

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	186449		
110	40.6	18.1	54.4	
77	31.1	24.8	37.2	





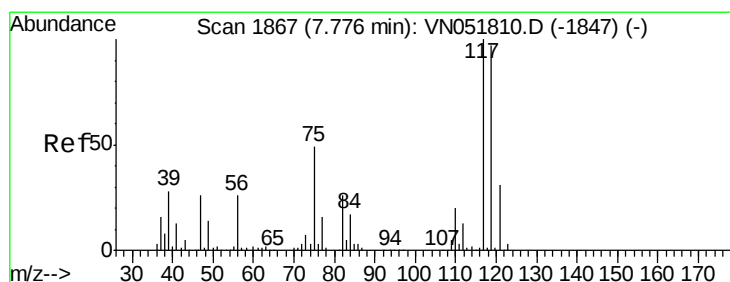
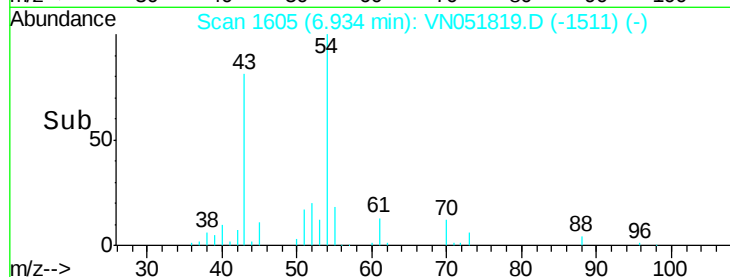
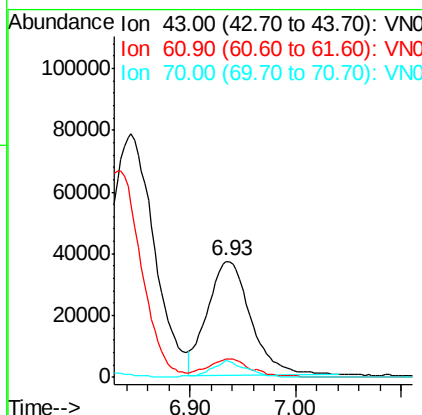
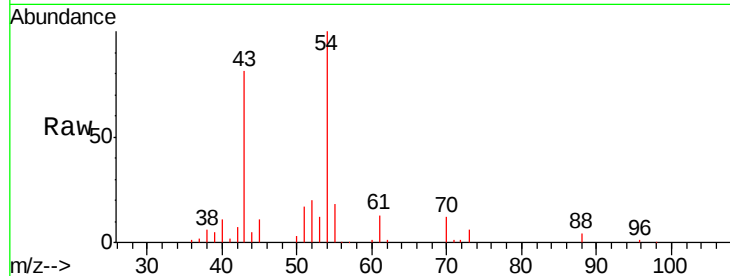
#37
Ethyl Acetate
Concen: 20.86 ug/l
RT: 6.93 min Scan# 1605
Delta R.T. 0.00 min
Lab File: VN051819.D
Acq: 11 Oct 2018 18:19

Instrument :
MSVOA_N
ClientSampleId :
VN1011WBSD01

Tgt Ion	Ratio	Lower	Upper
43	100		
61	15.0	12.0	18.0
70	11.9	8.6	13.0

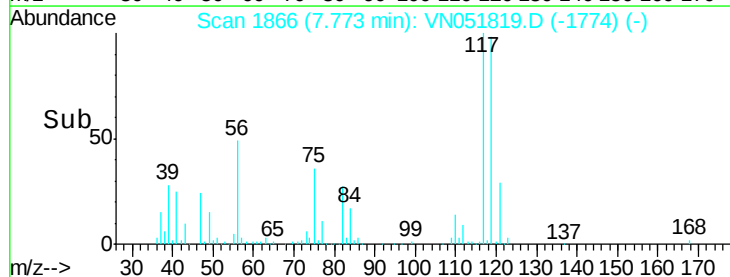
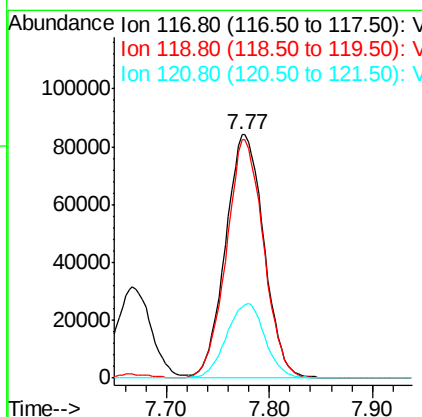
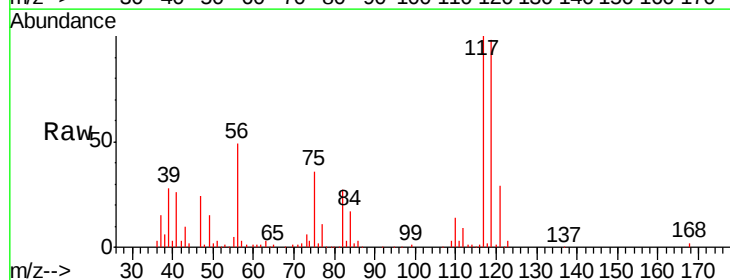
Manual Integrations
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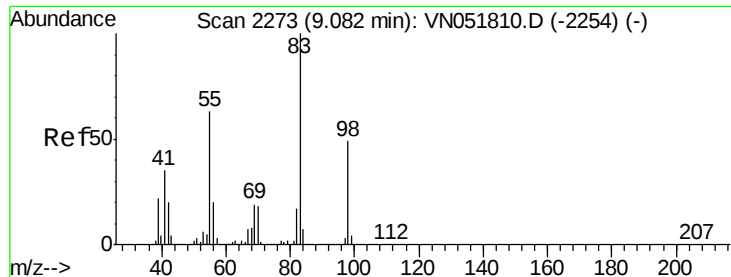
MMDadoda
10/15/2018 3:00:13 PM



#38
Carbon Tetrachloride
Concen: 18.98 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. -0.00 min
Lab File: VN051819.D
Acq: 11 Oct 2018 18:19

Tgt Ion	Ratio	Lower	Upper
117	100		
119	97.7	76.3	114.5
121	29.1	24.6	36.8





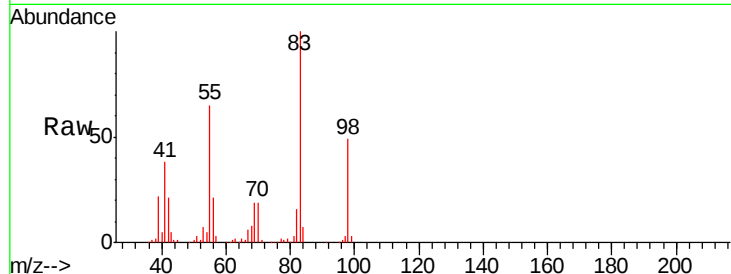
#39
Methylcyclohexane
Concen: 19.01 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN051819.D
Acq: 11 Oct 2018 18:19

Instrument :
MSVOA_N
ClientSampleId :
VN1011WBSD01

Tgt Ion	Ratio	Resp Lower	Resp Upper
83	100		
55	64.8	61.0	91.4
98	48.8	37.5	56.3

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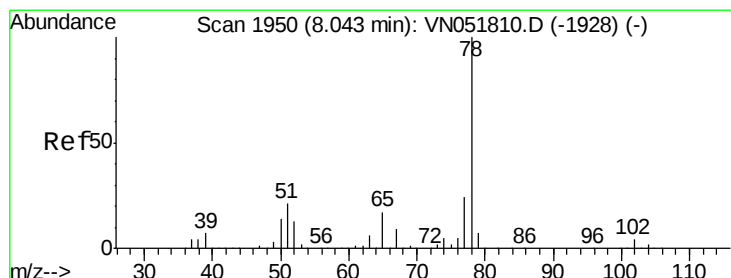
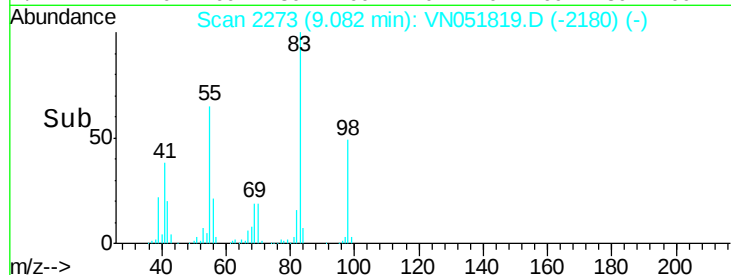
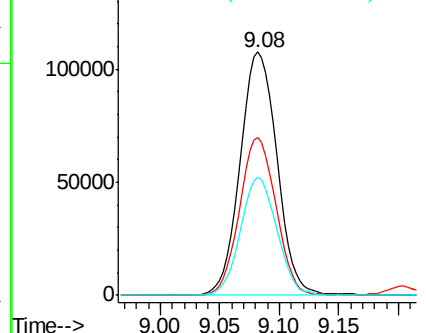
MMDadoda
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Abundance Ion 83.00 (82.70 to 83.70): VN051819.D (-2180) (-)

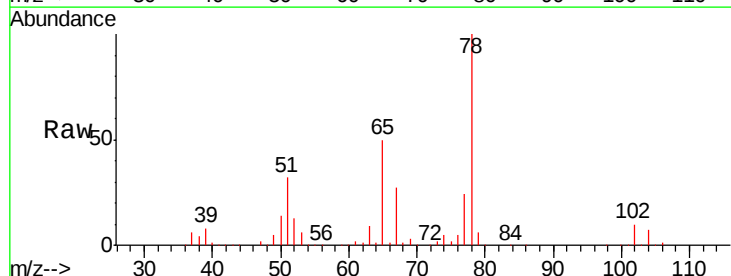
Ion 55.00 (54.70 to 55.70): VN051819.D (-2180) (-)

Ion 98.00 (97.70 to 98.70): VN051819.D (-2180) (-)



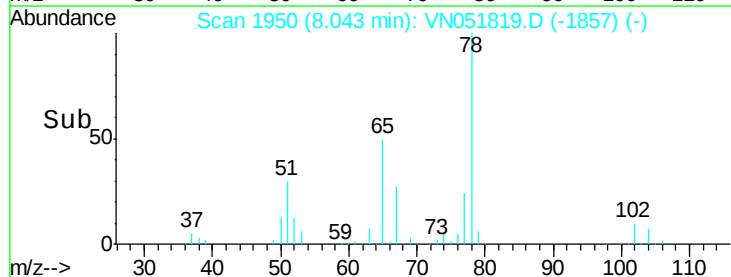
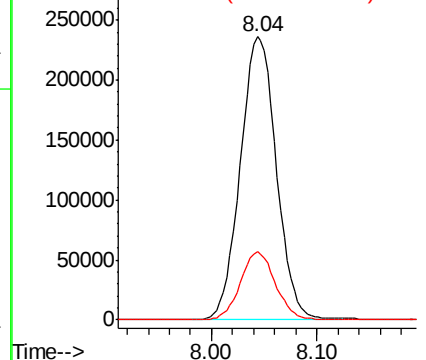
#40
Benzene
Concen: 19.60 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN051819.D
Acq: 11 Oct 2018 18:19

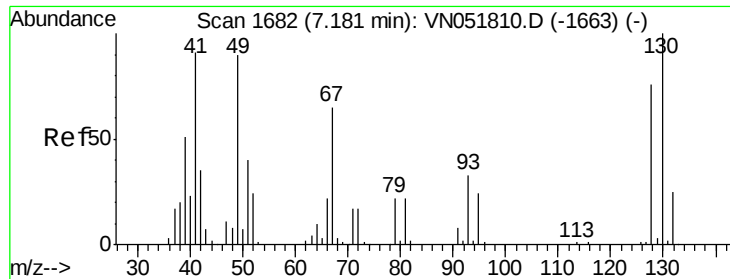
Tgt Ion	Ratio	Resp Lower	Resp Upper
78	100		
77	24.0	19.0	28.4



Abundance Ion 78.00 (77.70 to 78.70): VN051819.D (-1857) (-)

Ion 77.00 (76.70 to 77.70): VN051819.D (-1857) (-)





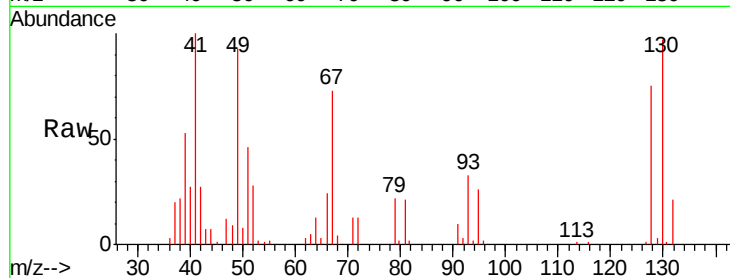
#41
Methacrylonitrile
Concen: 24.43 ug/l
RT: 7.18 min Scan# 1682
Delta R.T. 0.00 min
Lab File: VN051819.D
Acq: 11 Oct 2018 18:19

Instrument :
MSVOA_N
ClientSampleId :
VN1011WBSD01

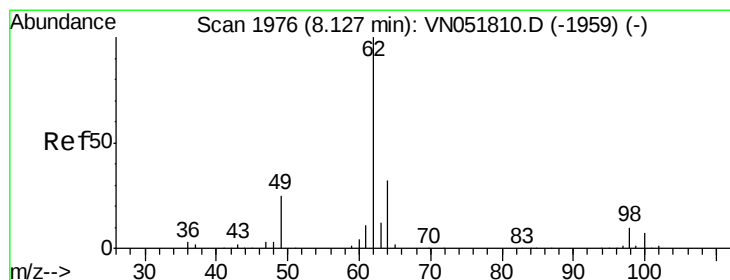
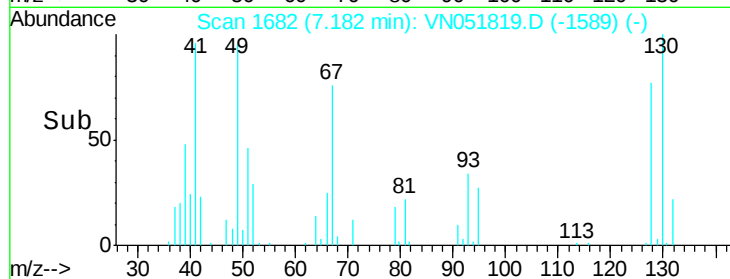
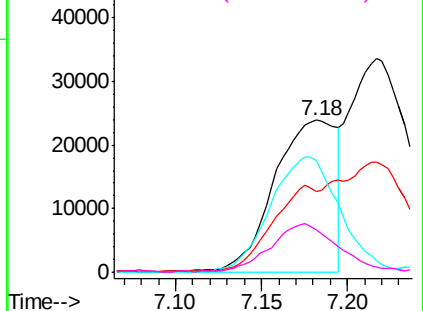
Tgt Ion: 41 Resp: 60017
Ion Ratio Lower Upper
41 100
39 38.5 45.4 68.0#
67 85.0 70.6 106.0
52 34.9 27.1 40.7

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MMDadoda
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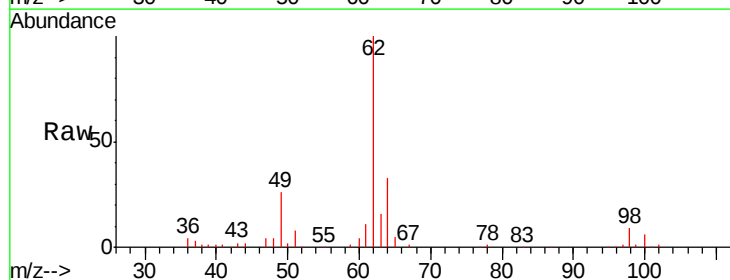


Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 39.00 (38.70 to 39.70): VNC
Ion 67.00 (66.70 to 67.70): VNC
Ion 52.00 (51.70 to 52.70): VNC

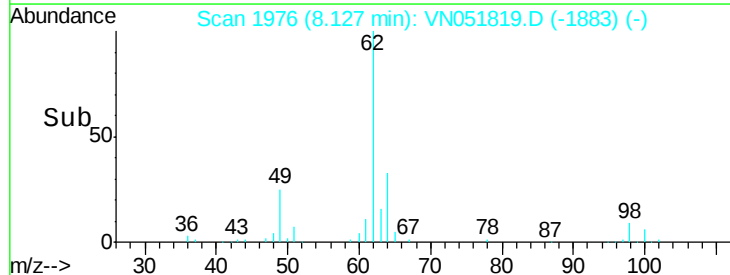
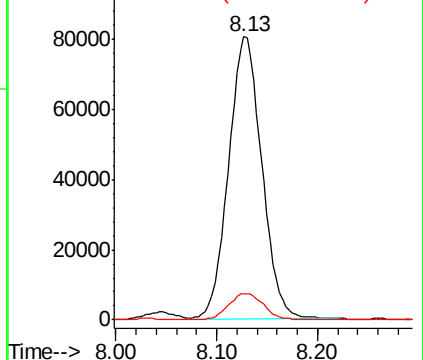


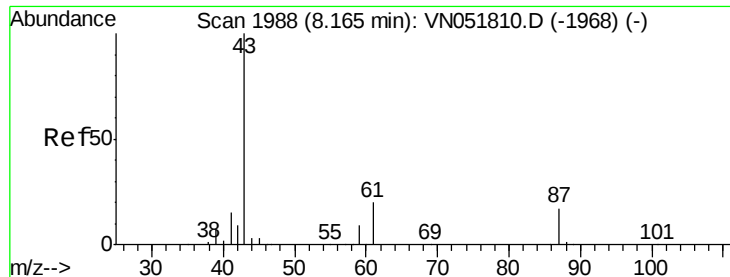
#42
1,2-Dichloroethane
Concen: 19.68 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN051819.D
Acq: 11 Oct 2018 18:19

Tgt Ion: 62 Resp: 184689
Ion Ratio Lower Upper
62 100
98 9.9 0.0 19.6



Abundance Ion 61.90 (61.60 to 62.60): VNC
Ion 97.90 (97.60 to 98.60): VNC





#43

Isopropyl Acetate

Concen: 19.27 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN051819.D

Acq: 11 Oct 2018 18:19

Instrument :

MSVOA_N

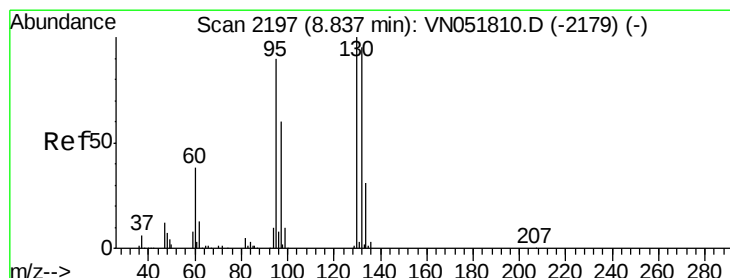
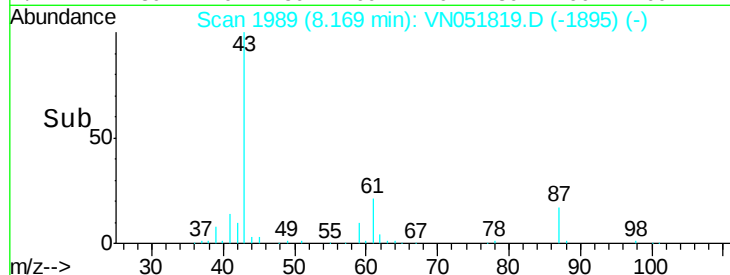
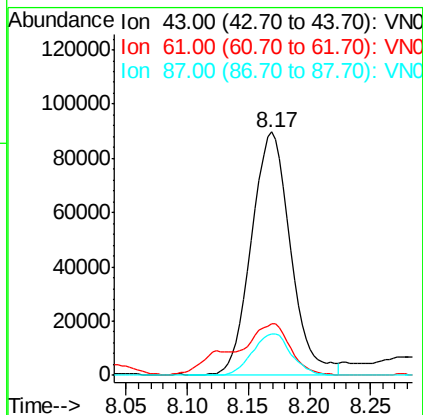
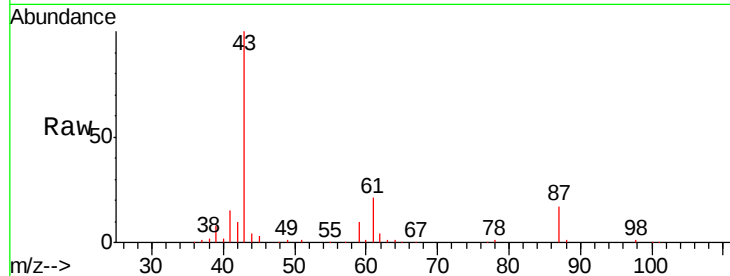
ClientSampleId :

VN1011WBSD01

Tgt Ion:	43	Resp:	197983
Ion Ratio		Lower	Upper
43	100		
61	21.1	17.5	26.3
87	17.2	11.3	16.9#

Manual Integrations
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#44

Trichloroethene

Concen: 19.30 ug/l

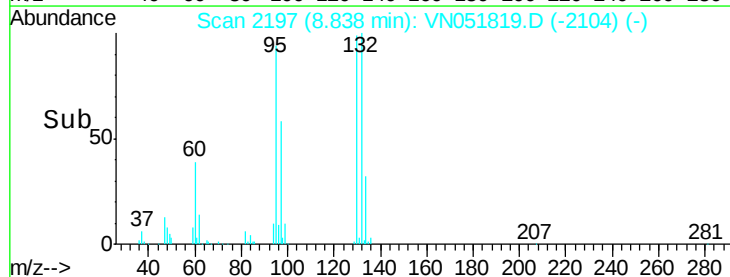
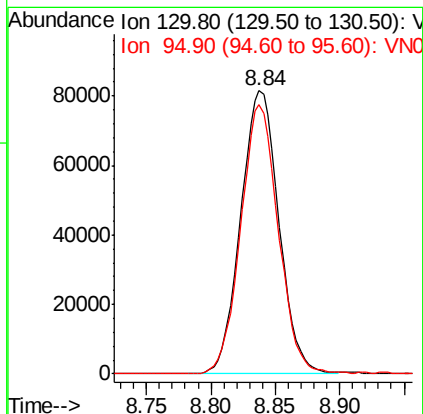
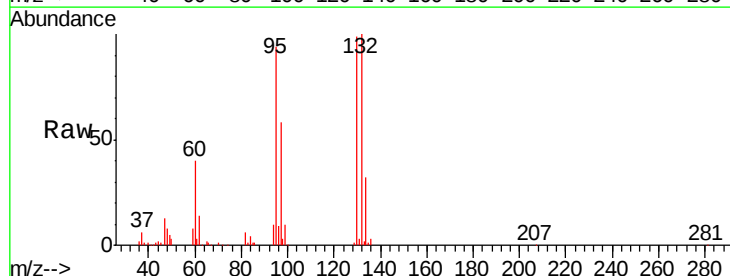
RT: 8.84 min Scan# 2197

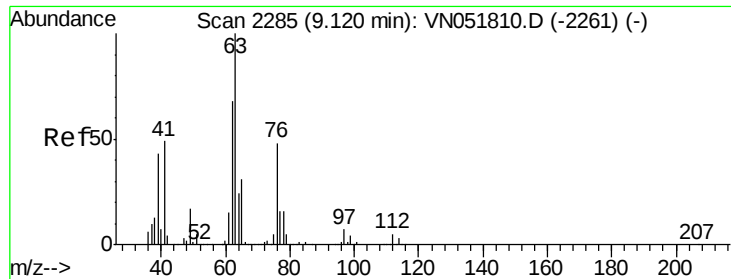
Delta R.T. 0.00 min

Lab File: VN051819.D

Acq: 11 Oct 2018 18:19

Tgt Ion:	130	Resp:	168241
Ion Ratio		Lower	Upper
130	100		
95	95.0	0.0	193.0





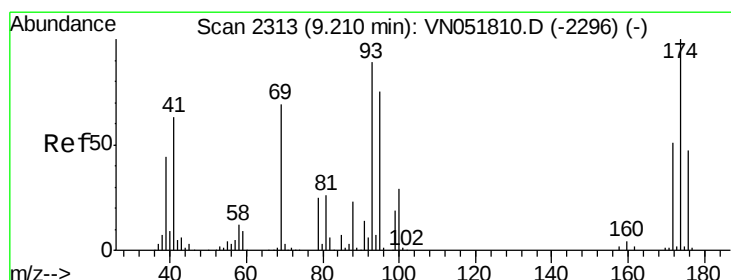
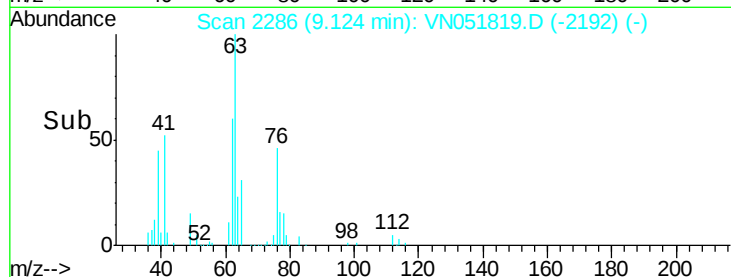
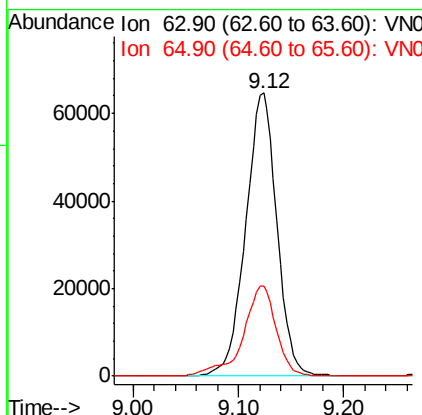
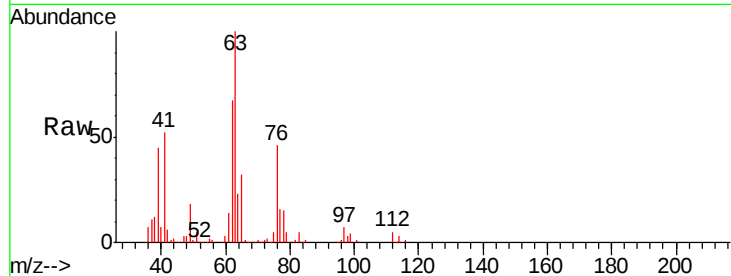
#45
 1,2-Dichloropropane
 Concen: 19.79 ug/l
 RT: 9.12 min Scan# 2286
 Delta R.T. 0.00 min
 Lab File: VN051819.D
 Acq: 11 Oct 2018 18:19

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1011WBSD01

Tgt Ion: 63 Resp: 133207
 Ion Ratio Lower Upper
 63 100
 65 31.6 25.0 37.6

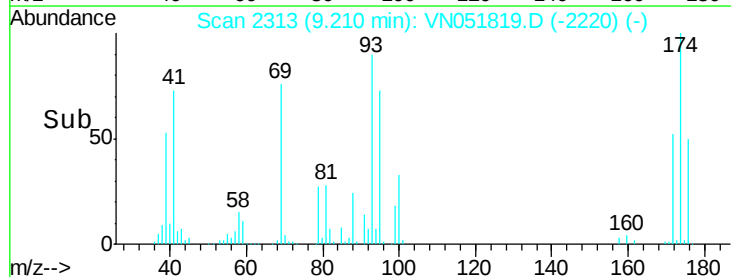
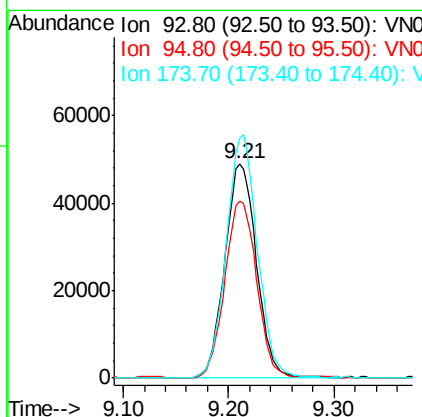
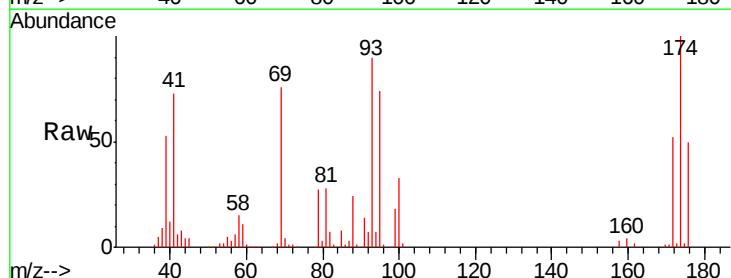
Manual Integrations
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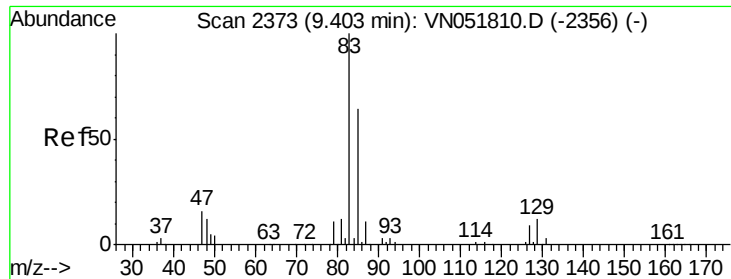
MMDadoda
 10/15/2018 3:00:13 PM



#46
 Dibromomethane
 Concen: 19.72 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN051819.D
 Acq: 11 Oct 2018 18:19

Tgt Ion: 93 Resp: 101889
 Ion Ratio Lower Upper
 93 100
 95 83.7 66.7 100.1
 174 111.4 89.8 134.6





#47

Bromodichloromethane

Concen: 19.55 ug/l

RT: 9.41 min Scan# 2374

Delta R.T. 0.00 min

Lab File: VN051819.D

Acq: 11 Oct 2018 18:19

Instrument :

MSVOA_N

ClientSampleId :

VN1011WBSD01

Tgt Ion: 83 Resp: 201792

Ion Ratio Lower Upper

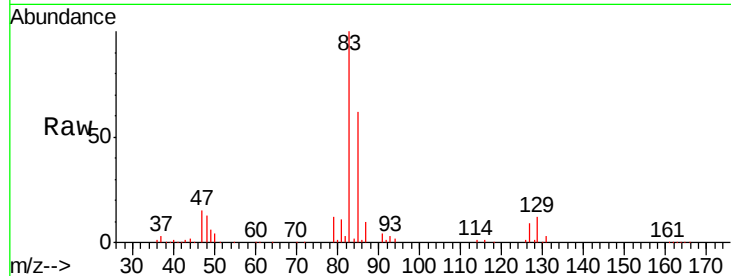
83 100

85 62.3 52.6 78.8

127 9.4 7.2 10.8

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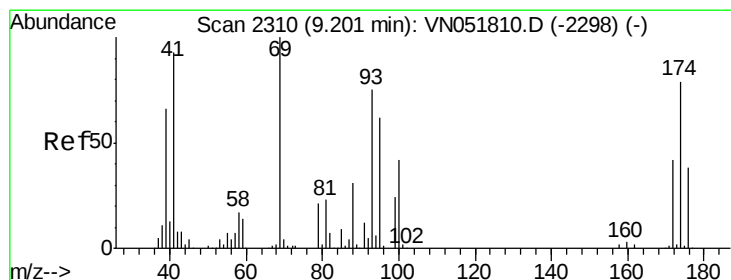
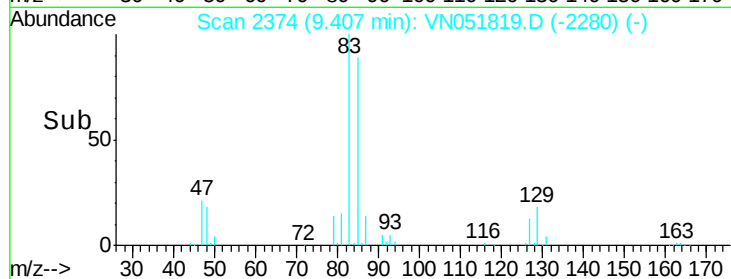
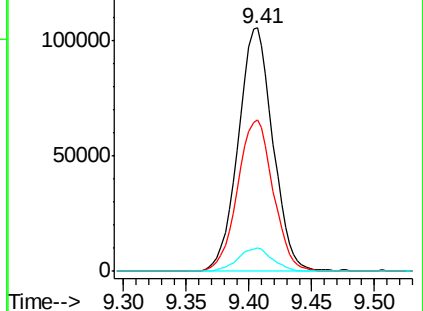
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Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0

Ion 126.80 (126.50 to 127.50): VN0



#48

Methyl methacrylate

Concen: 20.59 ug/l

RT: 9.20 min Scan# 2310

Delta R.T. 0.00 min

Lab File: VN051819.D

Acq: 11 Oct 2018 18:19

Tgt Ion: 41 Resp: 93470

Ion Ratio Lower Upper

41 100

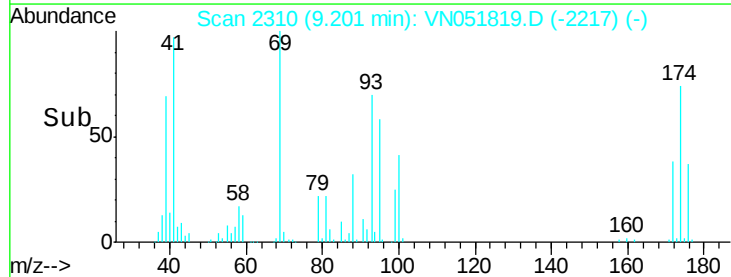
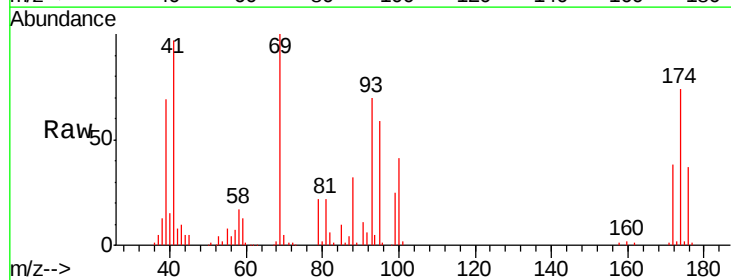
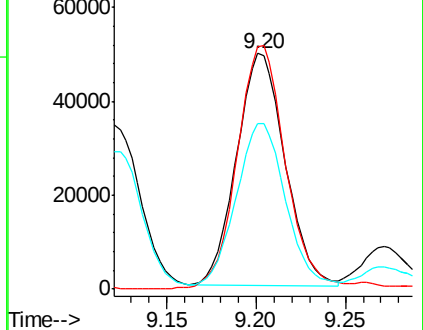
69 105.1 74.7 112.1

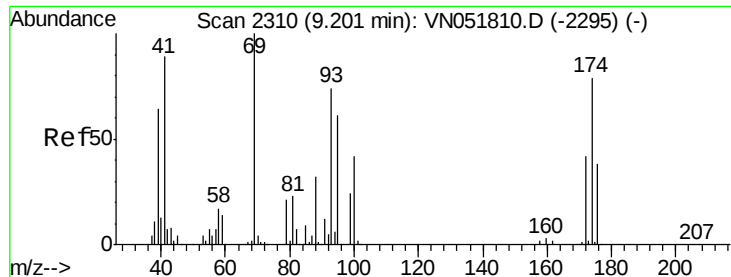
39 74.0 42.2 63.2#

Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





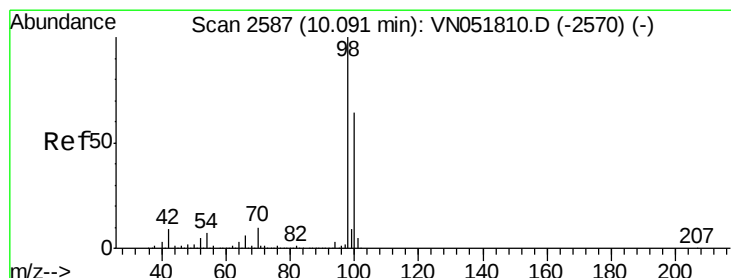
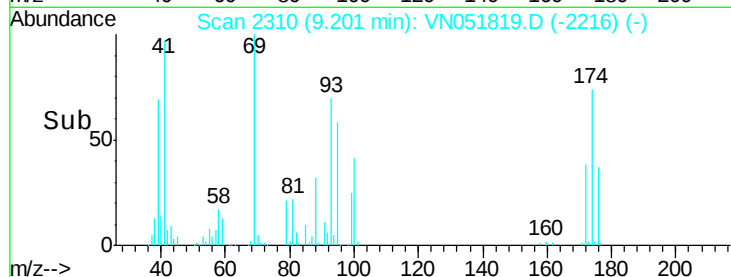
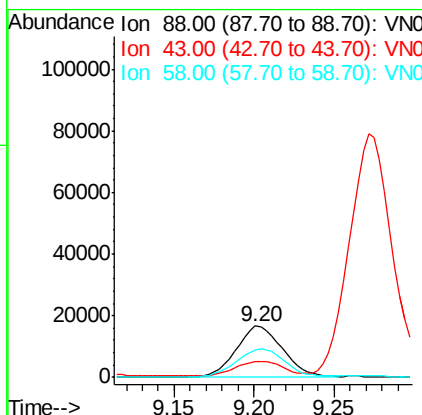
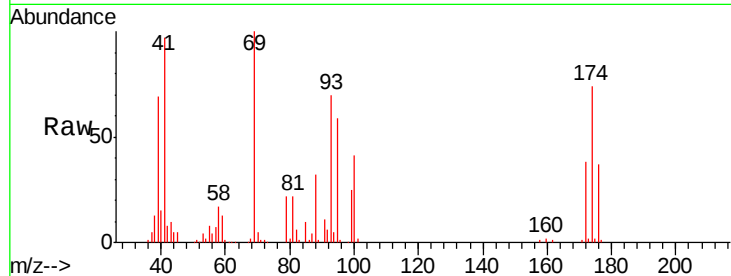
#49
1,4-Dioxane
Concen: 405.30 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN051819.D
Acq: 11 Oct 2018 18:19

Instrument :
MSVOA_N
ClientSampleId :
VN1011WBSD01

Tgt Ion	Ratio	Lower	Upper
88	100		
43	28.2	25.9	38.9
58	58.1	55.0	82.4

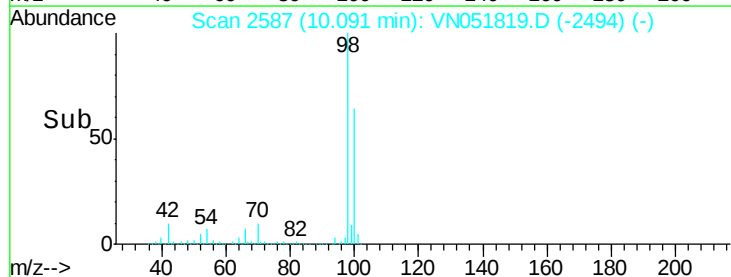
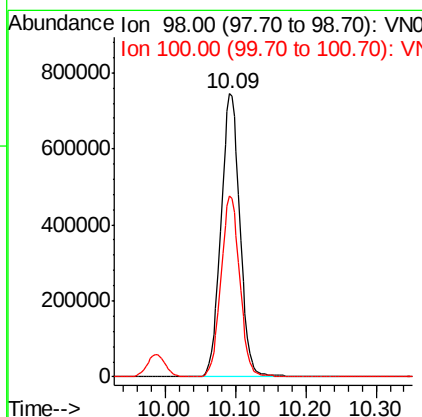
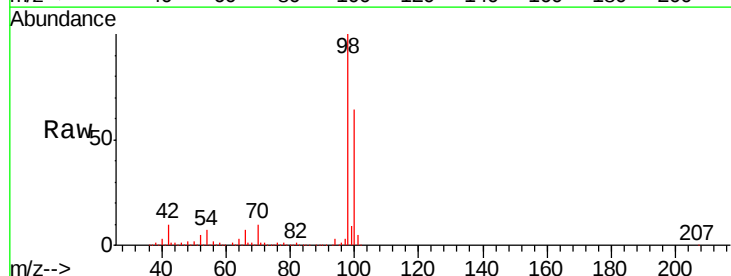
Manual Integrations
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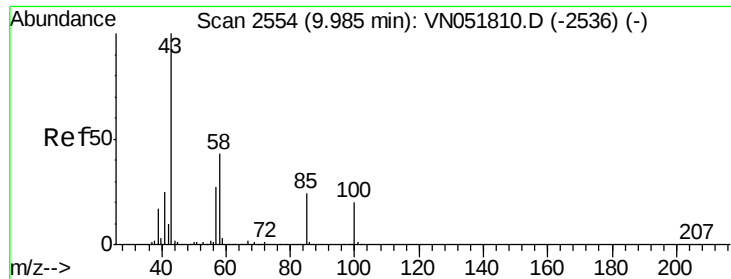
MMDadoda
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#50
Toluene-d8
Concen: 405.30 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN051819.D
Acq: 11 Oct 2018 18:19

Tgt Ion	Ratio	Lower	Upper
98	100		
100	63.2	51.5	77.3





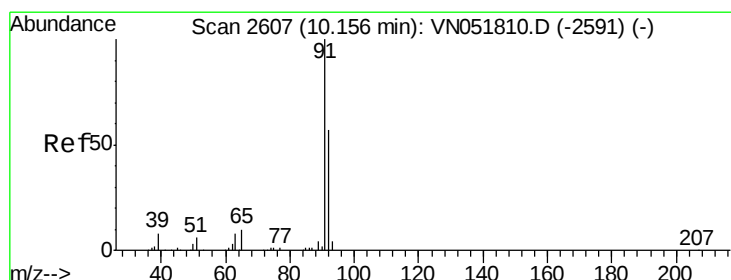
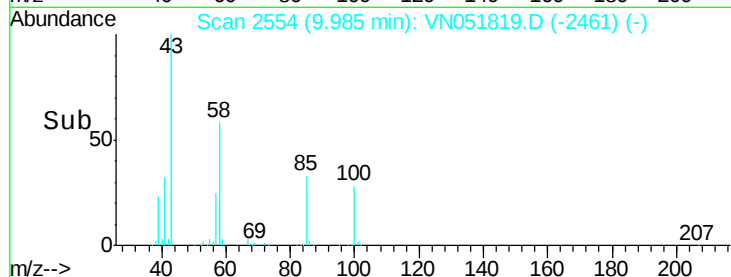
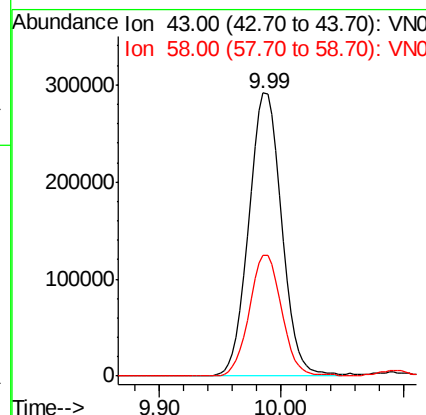
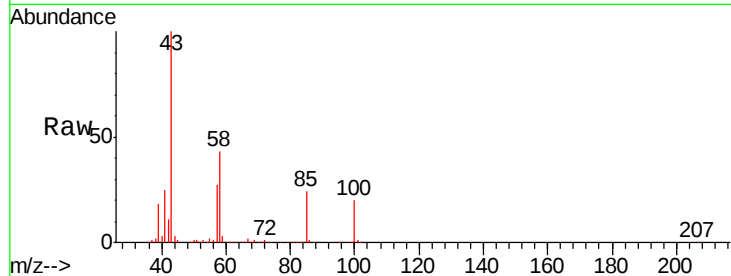
#51
4-Methyl-2-Pentanone
Concen: 101.82 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN051819.D
Acq: 11 Oct 2018 18:19

Instrument :
MSVOA_N
ClientSampleId :
VN1011WBSD01

Tgt Ion: 43 Resp: 538618
Ion Ratio Lower Upper
43 100
58 42.2 32.4 48.6

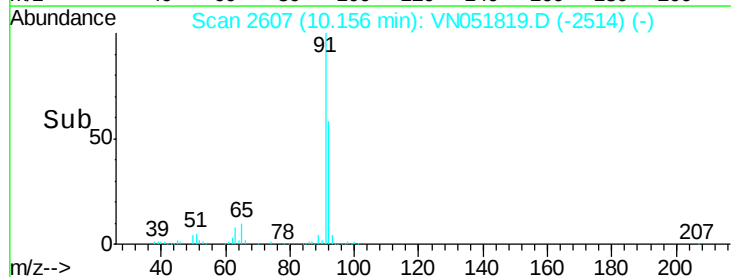
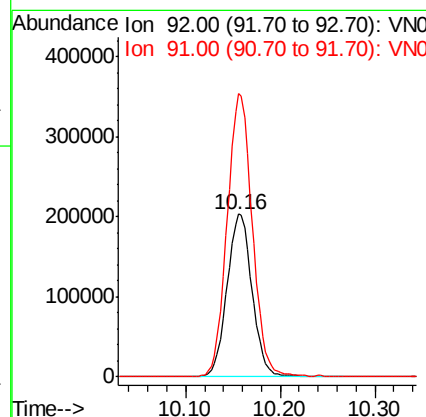
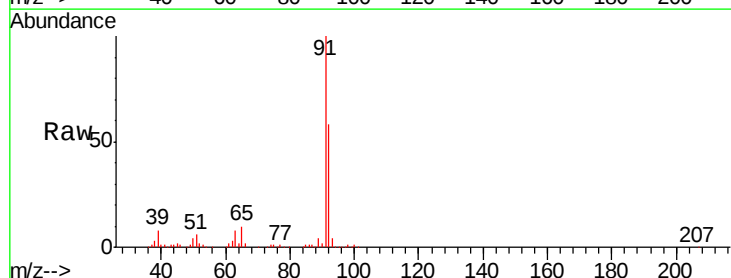
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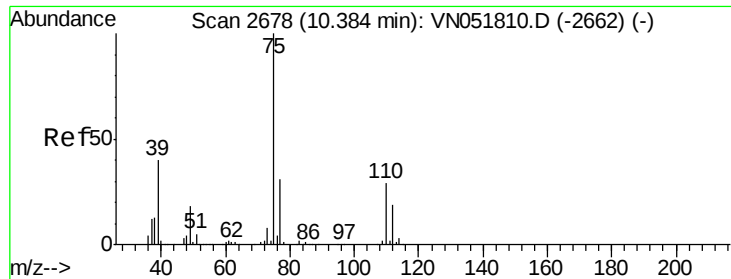
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#52
Toluene
Concen: 19.48 ug/l
RT: 10.16 min Scan# 2607
Delta R.T. 0.00 min
Lab File: VN051819.D
Acq: 11 Oct 2018 18:19

Tgt Ion: 92 Resp: 374422
Ion Ratio Lower Upper
92 100
91 174.2 140.6 211.0





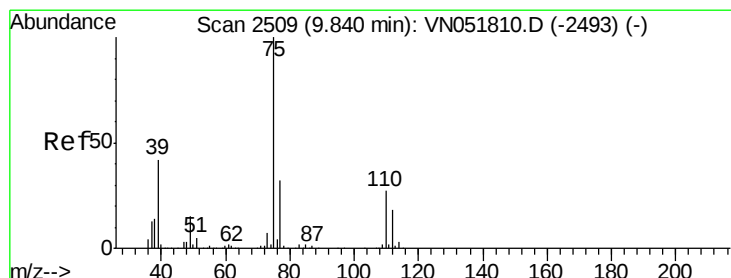
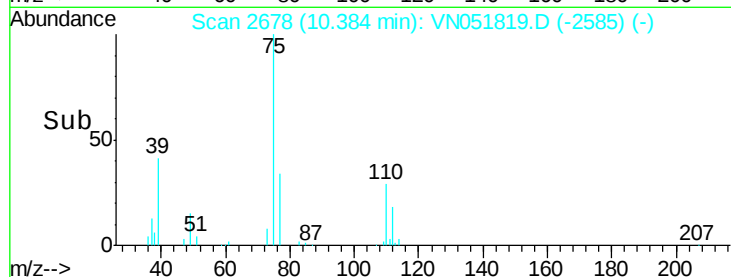
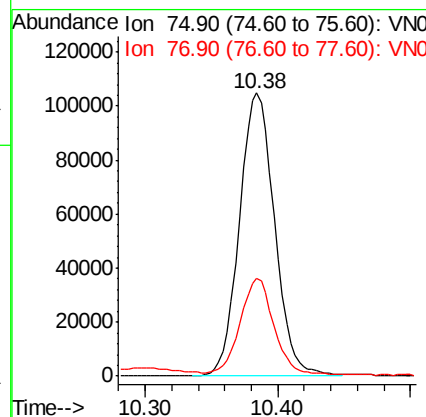
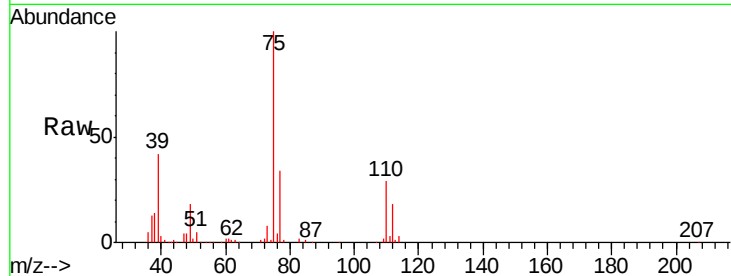
#53
 t-1,3-Dichloropropene
 Concen: 18.69 ug/l
 RT: 10.38 min Scan# 2678
 Delta R.T. 0.00 min
 Lab File: VN051819.D
 Acq: 11 Oct 2018 18:19

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1011WBSD01

Tgt Ion: 75 Resp: 193251
 Ion Ratio Lower Upper
 75 100
 77 33.9 25.7 38.5

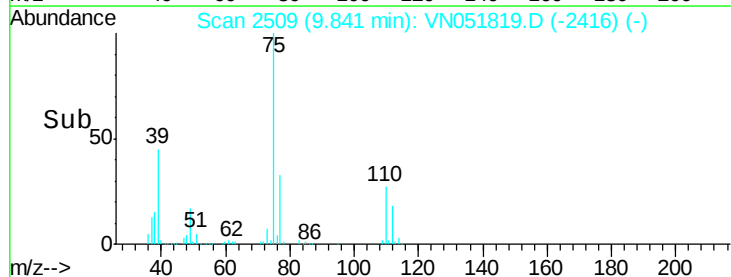
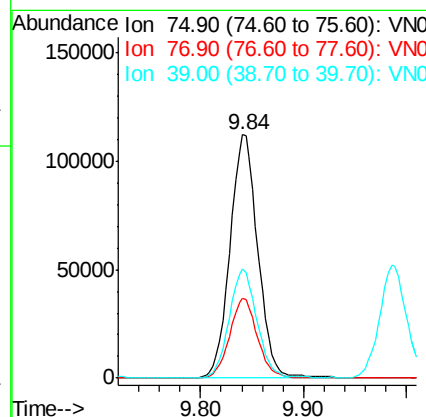
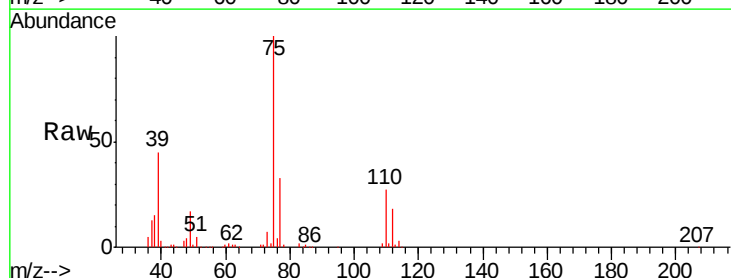
Manual Integrations
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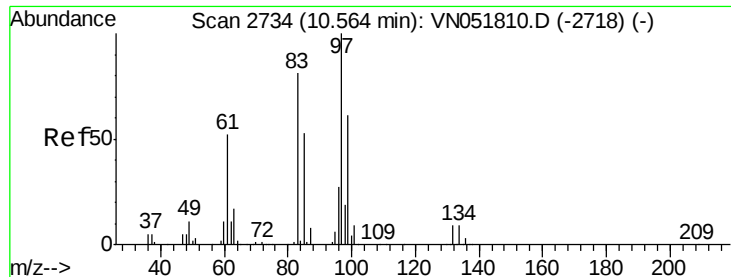
MMDadoda
 10/15/2018 3:00:13 PM



#54
 cis-1,3-Dichloropropene
 Concen: 18.64 ug/l
 RT: 9.84 min Scan# 2509
 Delta R.T. 0.00 min
 Lab File: VN051819.D
 Acq: 11 Oct 2018 18:19

Tgt Ion: 75 Resp: 211602
 Ion Ratio Lower Upper
 75 100
 77 32.9 25.4 38.2
 39 44.6 33.0 49.4





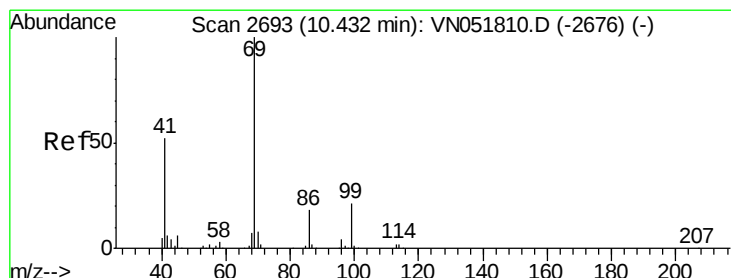
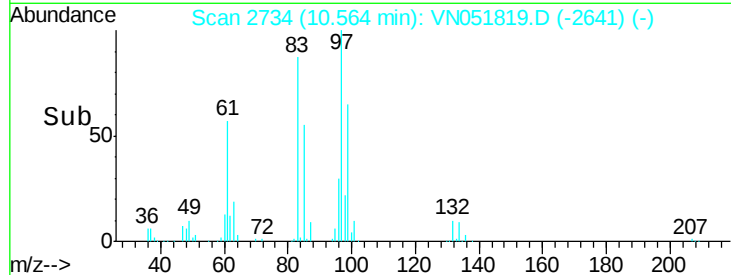
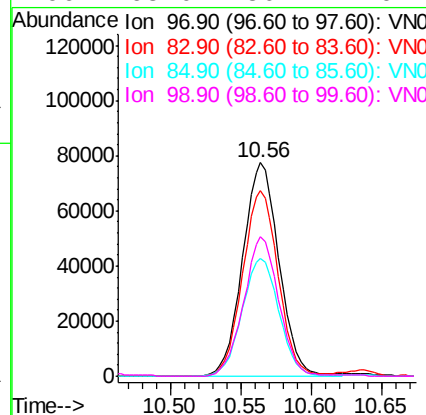
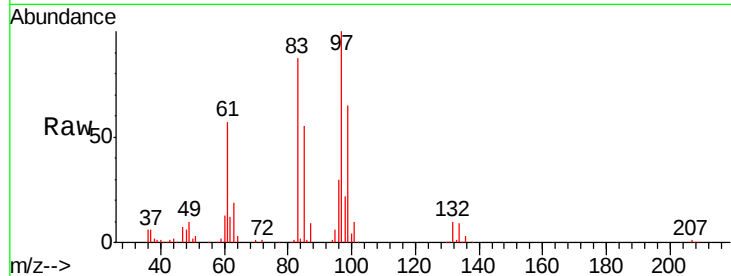
#55
 1,1,2-Trichloroethane
 Concen: 19.37 ug/l
 RT: 10.56 min Scan# 2734
 Delta R.T. 0.00 min
 Lab File: VN051819.D
 Acq: 11 Oct 2018 18:19

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1011WBSD01

Tgt Ion	Ratio	Lower	Upper
97	100		
83	86.7	69.7	104.5
85	55.0	44.5	66.7
99	65.0	50.7	76.1

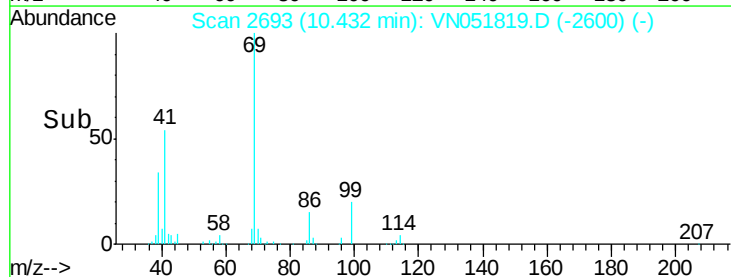
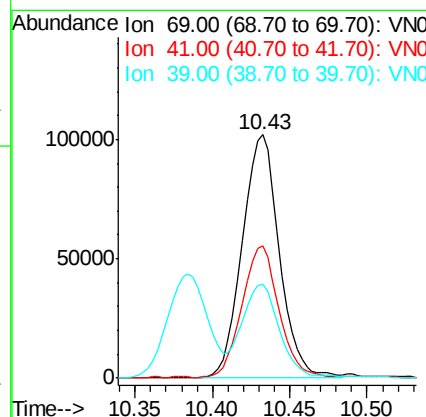
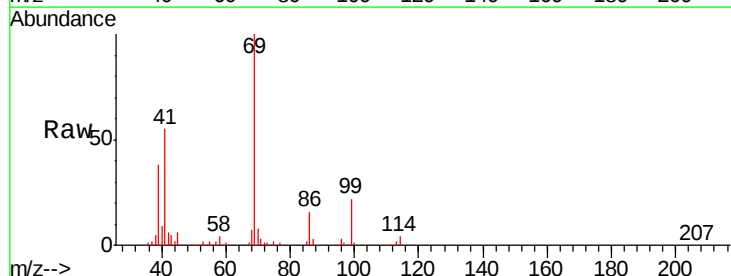
Manual Integrations
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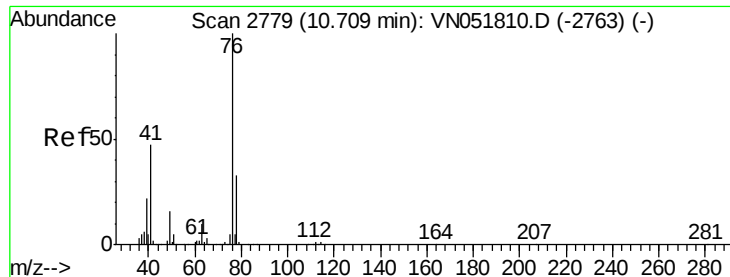
MMDadoda
 10/15/2018 3:00:13 PM



#56
 Ethyl methacrylate
 Concen: 20.06 ug/l
 RT: 10.43 min Scan# 2693
 Delta R.T. 0.00 min
 Lab File: VN051819.D
 Acq: 11 Oct 2018 18:19

Tgt Ion	Ratio	Lower	Upper
69	100		
41	53.3	48.3	72.5
39	37.7	24.0	36.0#





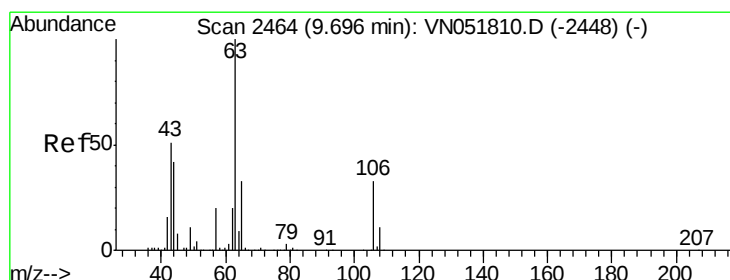
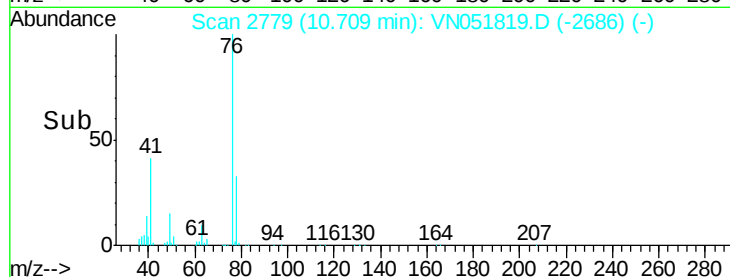
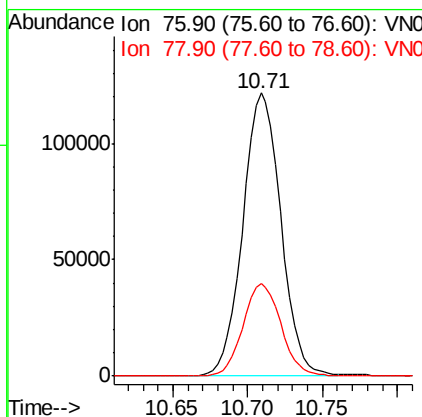
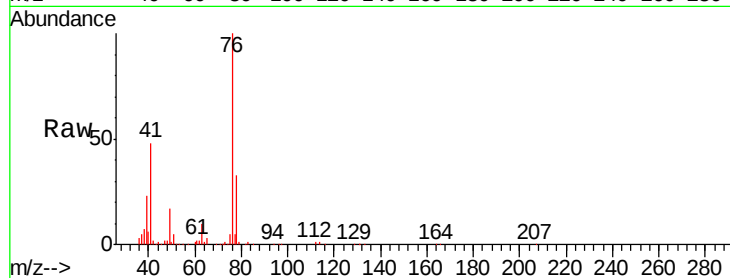
#57
 1,3-Dichloropropane
 Concen: 19.21 ug/l
 RT: 10.71 min Scan# 2779
 Delta R.T. 0.00 min
 Lab File: VN051819.D
 Acq: 11 Oct 2018 18:19

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1011WBSD01

Tgt Ion	Ratio	Lower	Upper
76	100		
78	32.6	25.5	38.3

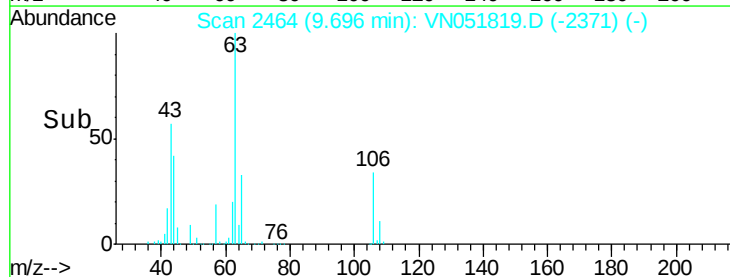
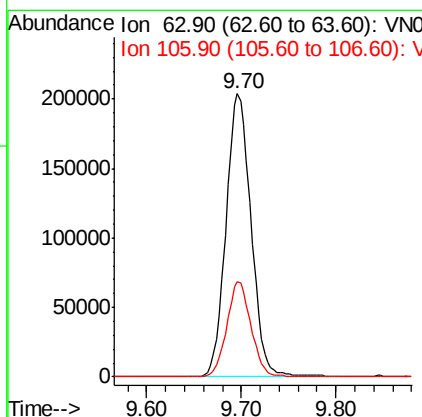
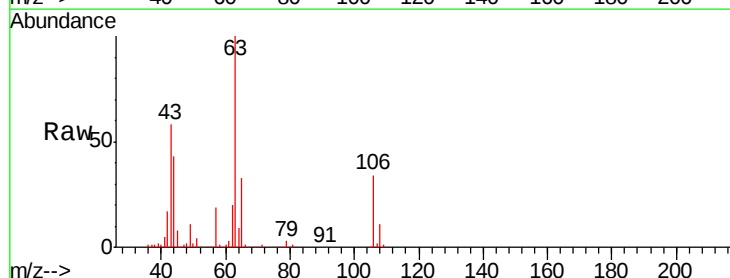
Manual Integrations
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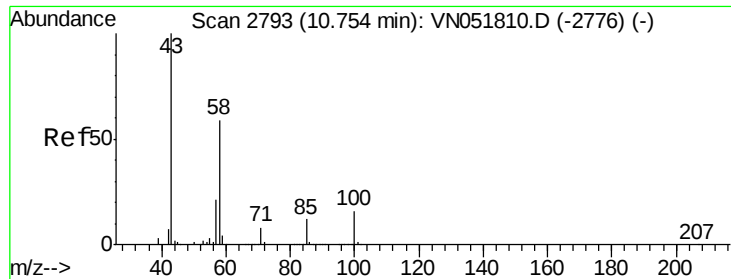
MMDadoda
 10/15/2018 3:00:13 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 101.33 ug/l
 RT: 9.70 min Scan# 2464
 Delta R.T. 0.00 min
 Lab File: VN051819.D
 Acq: 11 Oct 2018 18:19

Tgt Ion	Ratio	Lower	Upper
63	100		
106	32.6	21.9	32.9





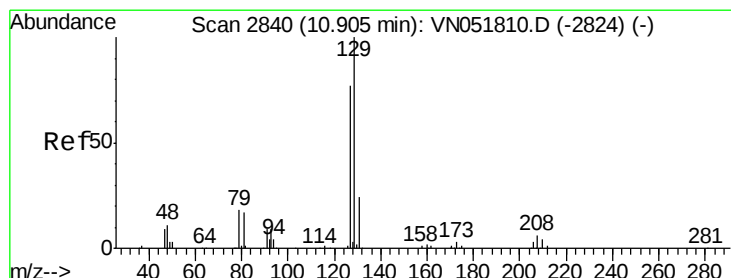
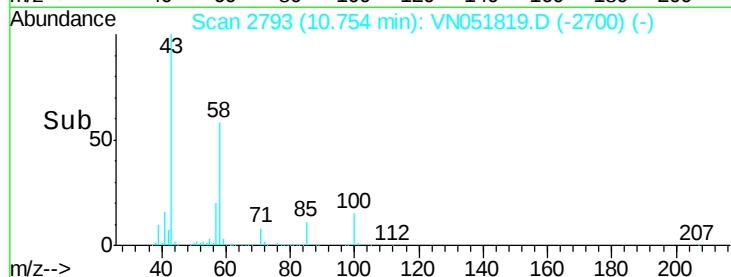
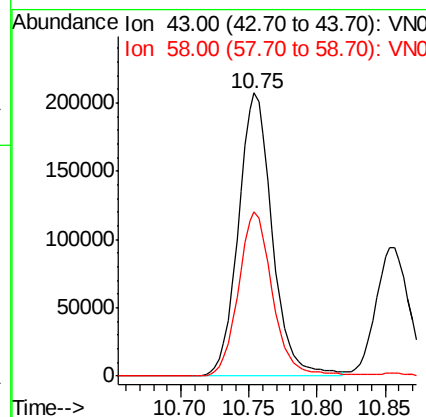
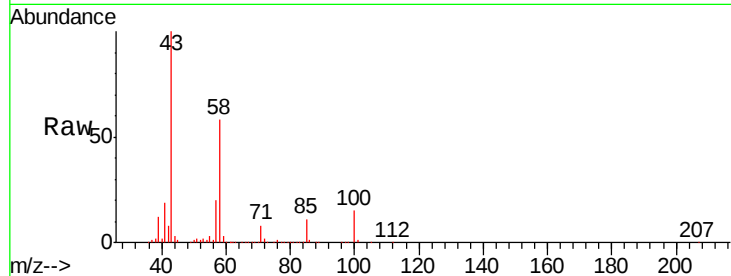
#59
2-Hexanone
Concen: 95.39 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN051819.D
Acq: 11 Oct 2018 18:19

Instrument :
MSVOA_N
ClientSampleId :
VN1011WBSD01

Tgt Ion: 43 Resp: 354406
Ion Ratio Lower Upper
43 100
58 58.8 28.3 85.0

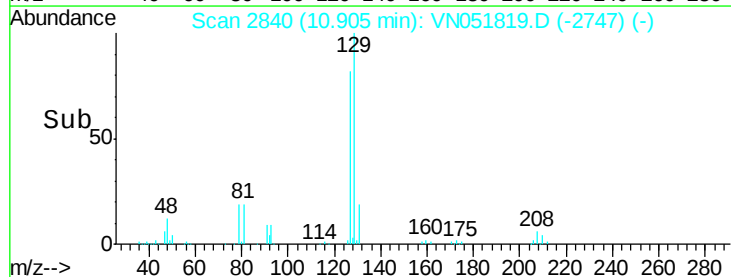
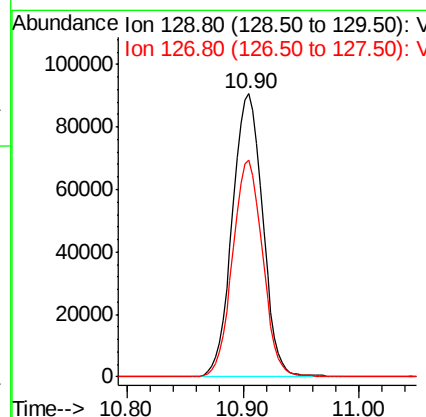
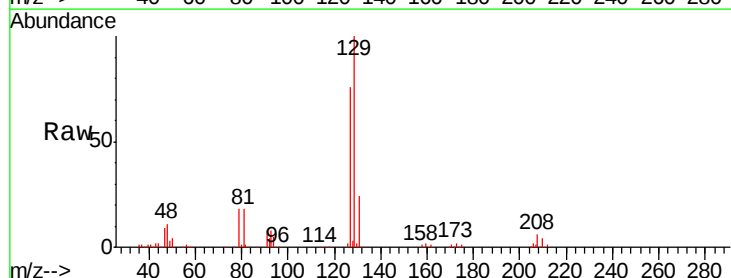
Manual Integrations
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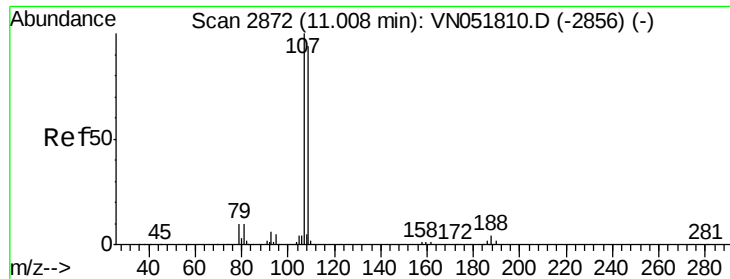
MMDadoda
10/15/2018 3:00:13 PM



#60
Dibromochloromethane
Concen: 19.21 ug/l
RT: 10.90 min Scan# 2840
Delta R.T. 0.00 min
Lab File: VN051819.D
Acq: 11 Oct 2018 18:19

Tgt Ion: 129 Resp: 164920
Ion Ratio Lower Upper
129 100
127 75.2 38.3 114.9





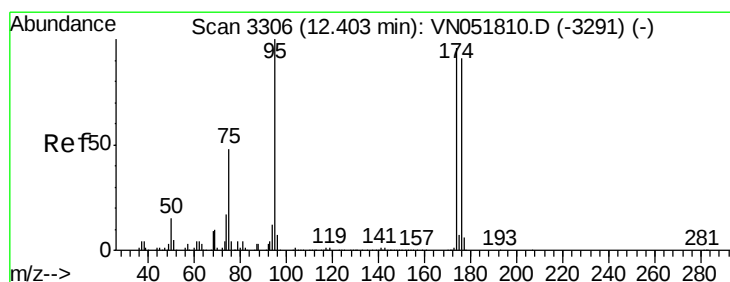
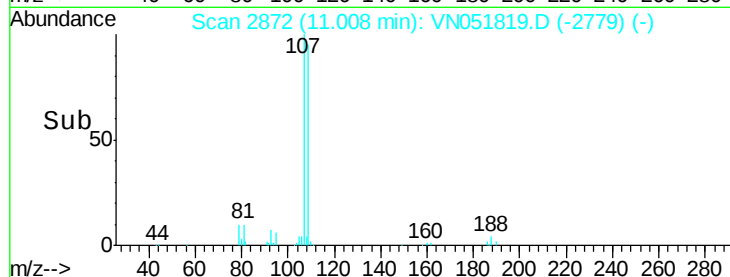
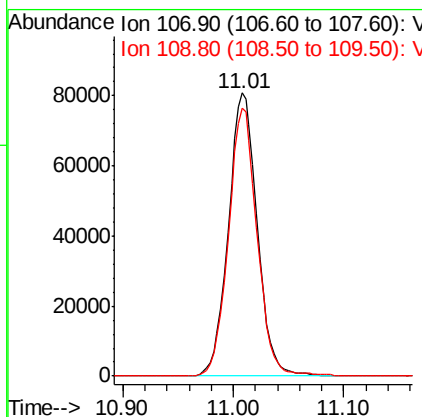
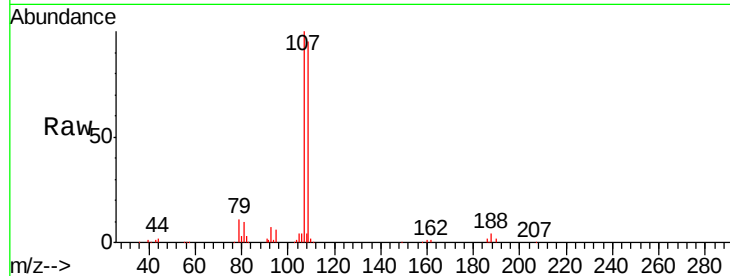
#61
 1,2-Dibromoethane
 Concen: 19.62 ug/l
 RT: 11.01 min Scan# 2872
 Delta R.T. 0.00 min
 Lab File: VN051819.D
 Acq: 11 Oct 2018 18:19

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1011WBSD01

Tgt Ion: 107 Resp: 146150
 Ion Ratio Lower Upper
 107 100
 109 94.1 75.4 113.2

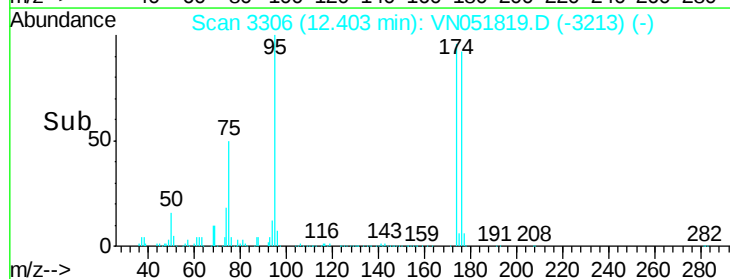
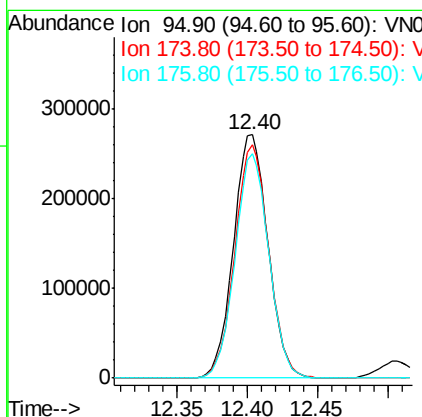
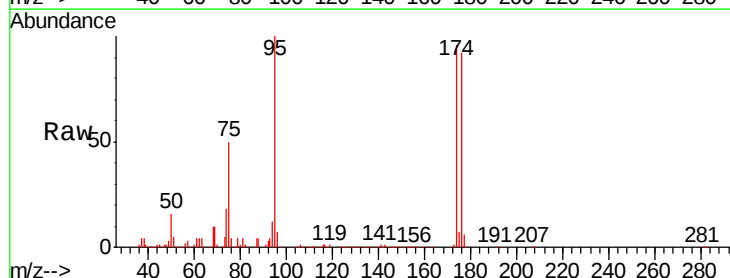
Manual Integrations
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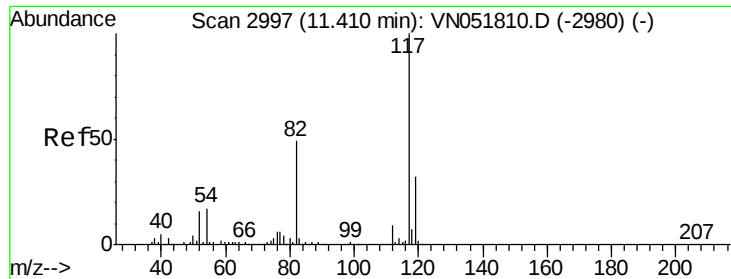
MMDadoda
 10/15/2018 3:00:13 PM



#62
 4-Bromofluorobenzene
 Concen: 19.62 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.00 min
 Lab File: VN051819.D
 Acq: 11 Oct 2018 18:19

Tgt Ion: 95 Resp: 462976
 Ion Ratio Lower Upper
 95 100
 174 94.3 0.0 183.0
 176 90.9 0.0 178.8





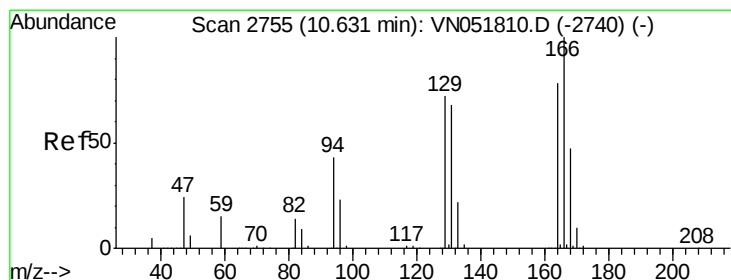
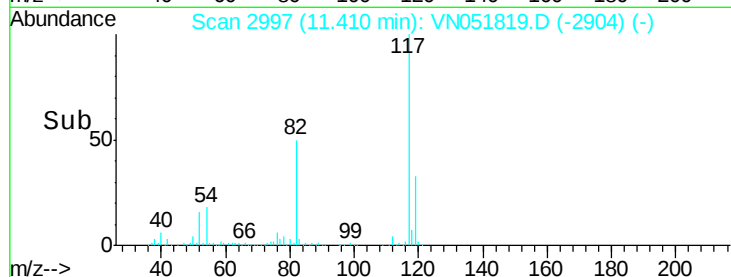
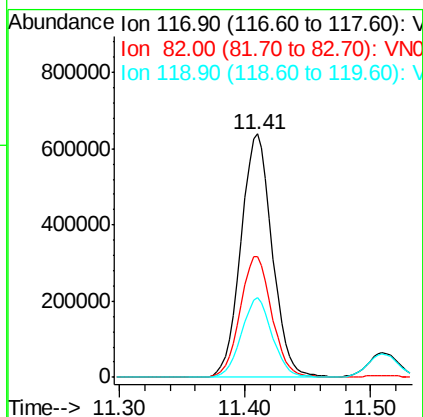
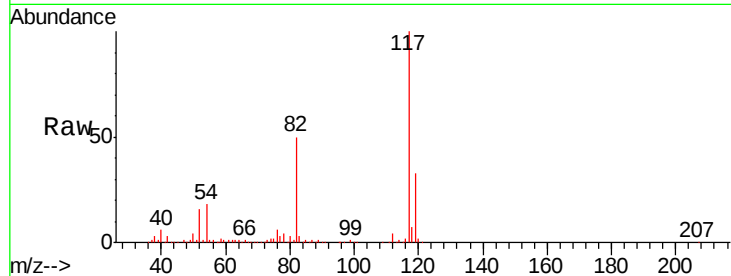
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN051819.D
Acq: 11 Oct 2018 18:19

Instrument :
MSVOA_N
ClientSampleId :
VN1011WBSD01

Tgt Ion:117 Resp: 1108834
Ion Ratio Lower Upper
117 100
82 49.7 42.6 64.0
119 32.6 25.8 38.6

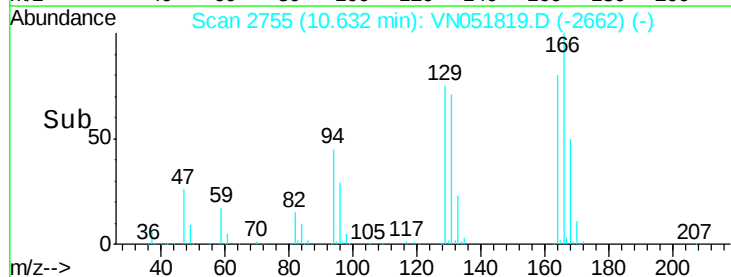
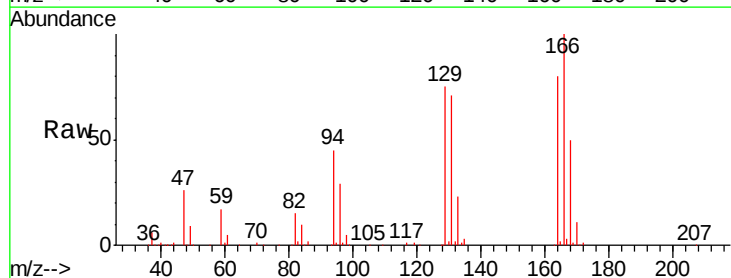
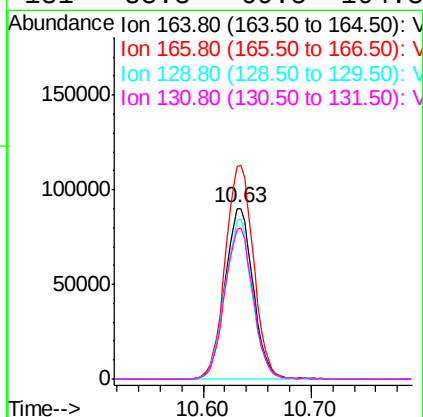
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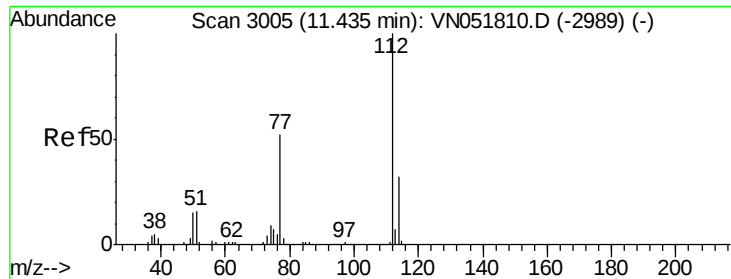
MMDadoda
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#64
Tetrachloroethene
Concen: 19.19 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN051819.D
Acq: 11 Oct 2018 18:19

Tgt Ion:164 Resp: 163223
Ion Ratio Lower Upper
164 100
166 124.8 103.5 155.3
129 93.2 72.7 109.1
131 88.3 69.5 104.3





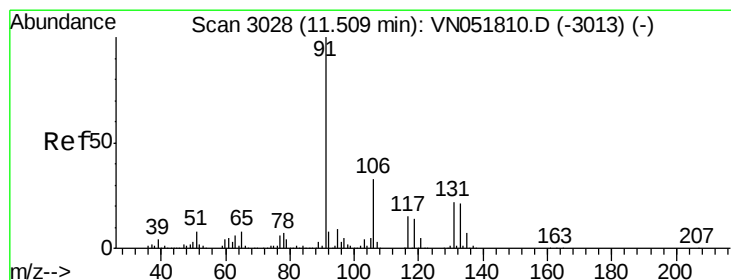
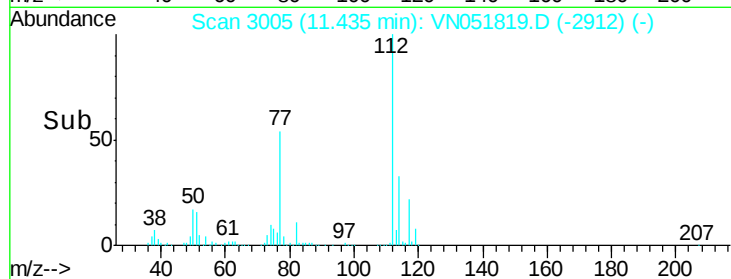
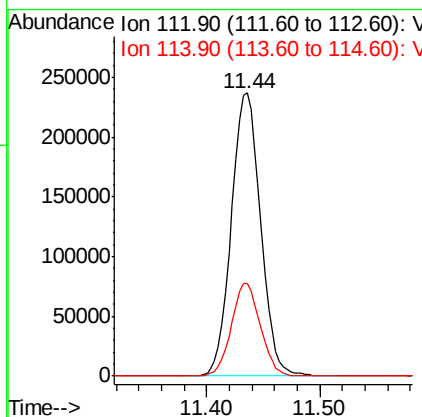
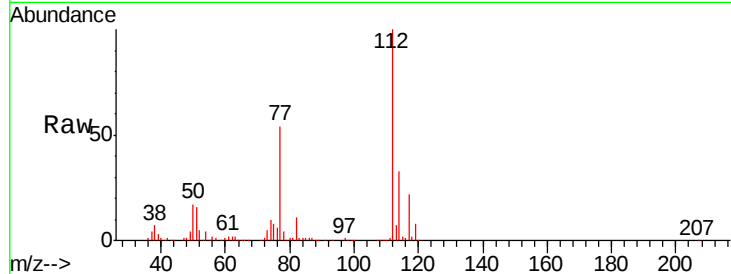
#65
Chlorobenzene
Concen: 19.04 ug/l
RT: 11.44 min Scan# 3005
Delta R.T. 0.00 min
Lab File: VN051819.D
Acq: 11 Oct 2018 18:19

Instrument :
MSVOA_N
ClientSampleId :
VN1011WBSD01

Tgt Ion:112 Resp: 426942
Ion Ratio Lower Upper
112 100
114 32.5 25.6 38.4

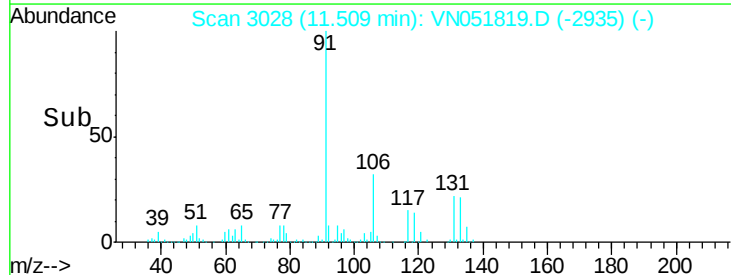
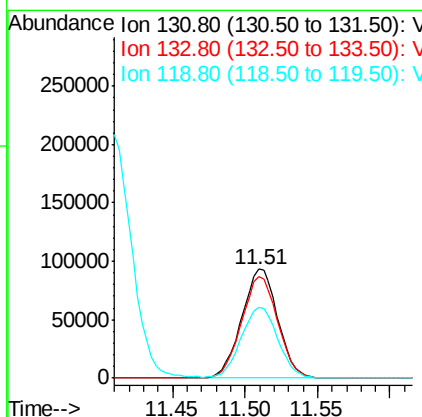
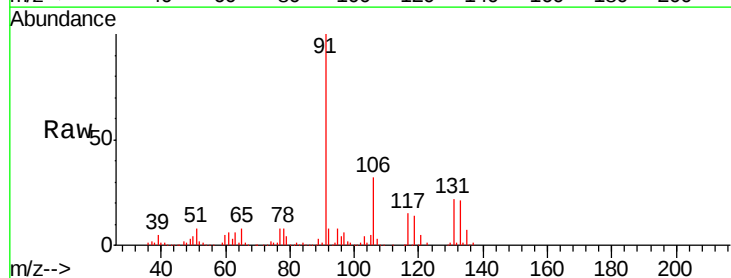
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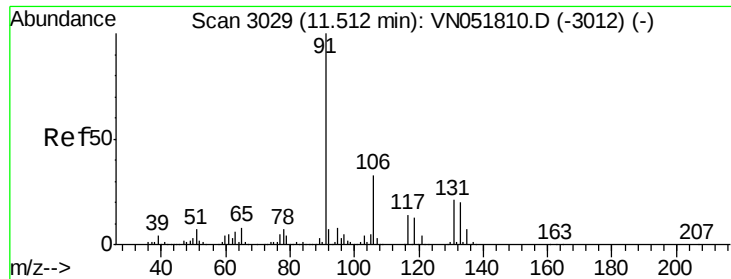
MMDadoda
10/15/2018 3:00:13 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 18.91 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN051819.D
Acq: 11 Oct 2018 18:19

Tgt Ion:131 Resp: 161584
Ion Ratio Lower Upper
131 100
133 93.4 47.4 142.3
119 66.1 32.8 98.4





#67

Ethyl Benzene

Concen: 19.41 ug/l

RT: 11.51 min Scan# 3029

Delta R.T. 0.00 min

Lab File: VN051819.D

Acq: 11 Oct 2018 18:19

Instrument :

MSVOA_N

ClientSampleId :

VN1011WBSD01

Tgt Ion: 91 Resp: 720639

Ion Ratio Lower Upper

91 100

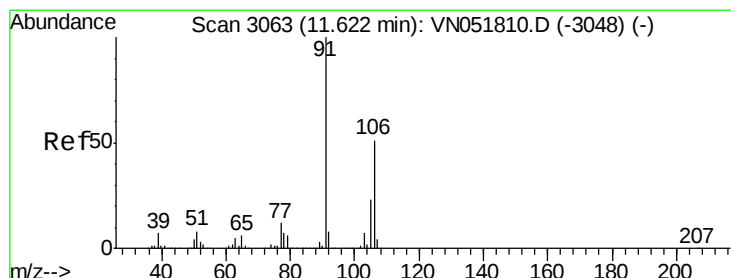
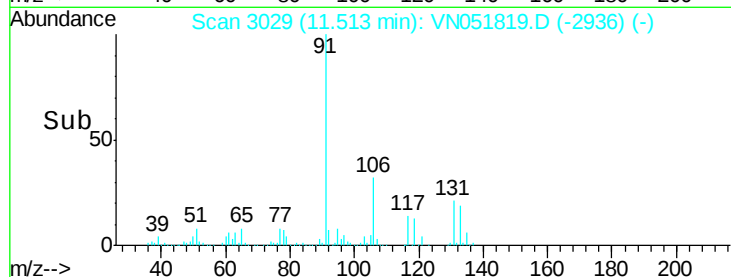
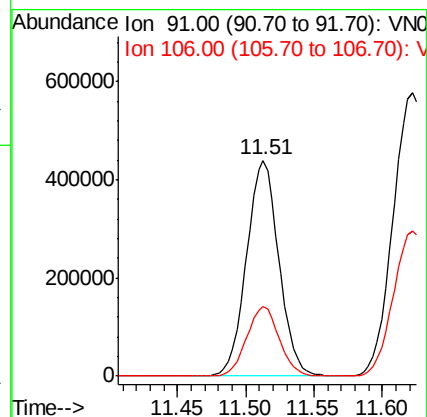
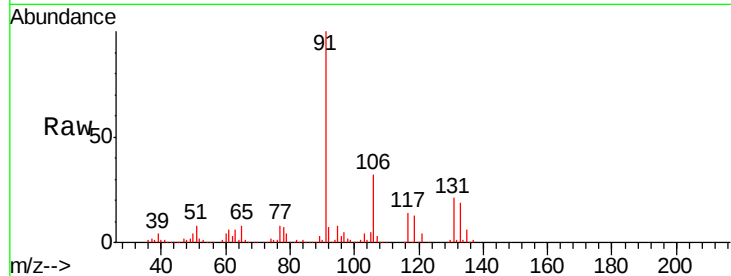
106 32.4 25.0 37.4

Manual Integrations

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#68

m/p-Xylenes

Concen: 38.37 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. 0.00 min

Lab File: VN051819.D

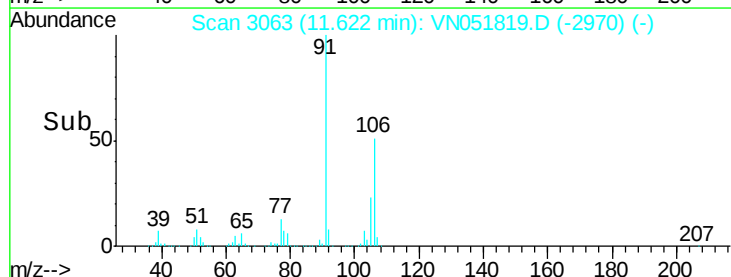
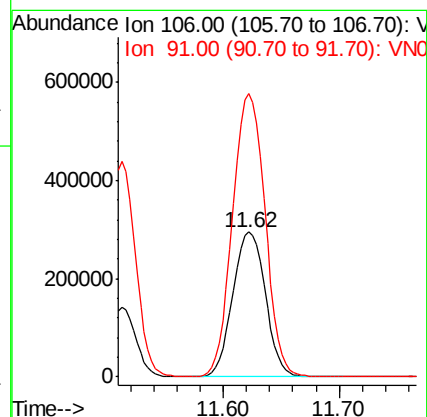
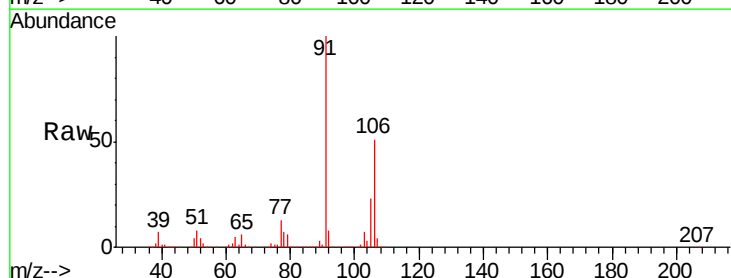
Acq: 11 Oct 2018 18:19

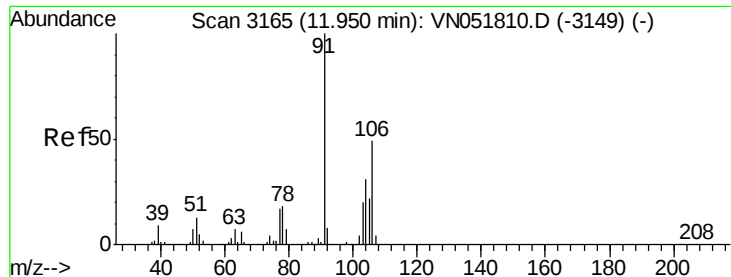
Tgt Ion: 106 Resp: 575434

Ion Ratio Lower Upper

106 100

91 194.7 161.0 241.6





#69

o-Xylene

Concen: 19.44 ug/l

RT: 11.95 min Scan# 3164

Delta R.T. -0.00 min

Lab File: VN051819.D

Acq: 11 Oct 2018 18:19

Instrument :

MSVOA_N

ClientSampleId :

VN1011WBSD01

Tgt Ion:106 Resp: 283067

Ion Ratio Lower Upper

106 100

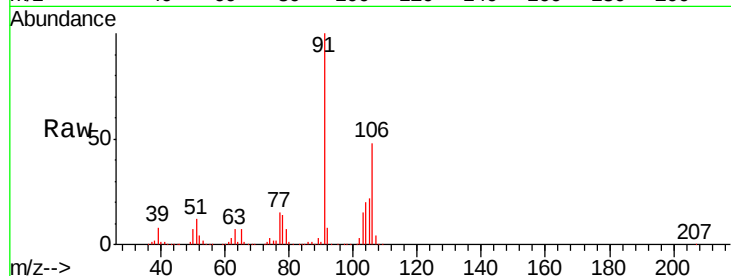
91 207.1 106.5 319.5

Manual Integrations

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Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN

400000

300000

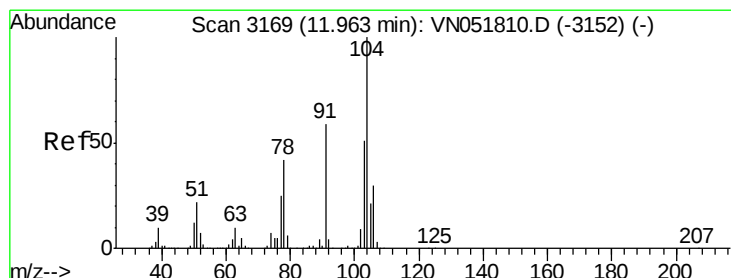
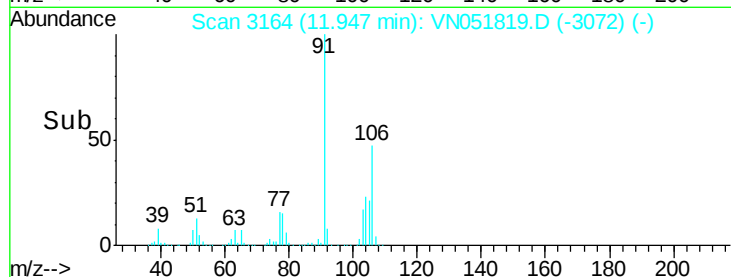
200000

100000

0

11.95

Time-->



#70

Styrene

Concen: 19.03 ug/l

RT: 11.97 min Scan# 3170

Delta R.T. 0.00 min

Lab File: VN051819.D

Acq: 11 Oct 2018 18:19

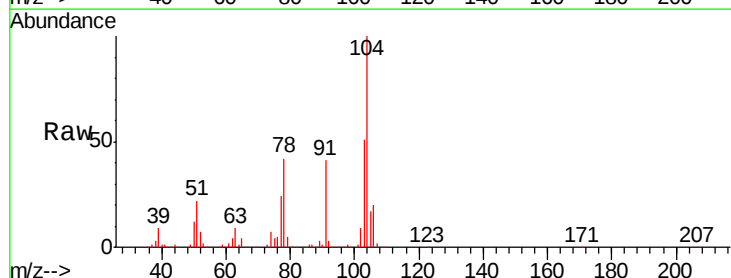
Tgt Ion:104 Resp: 427505

Ion Ratio Lower Upper

104 100

78 48.3 38.2 57.4

103 57.3 44.4 66.6



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VN

Ion 103.00 (102.70 to 103.70): V

300000

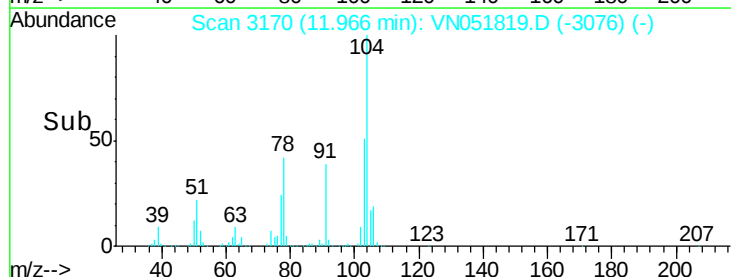
200000

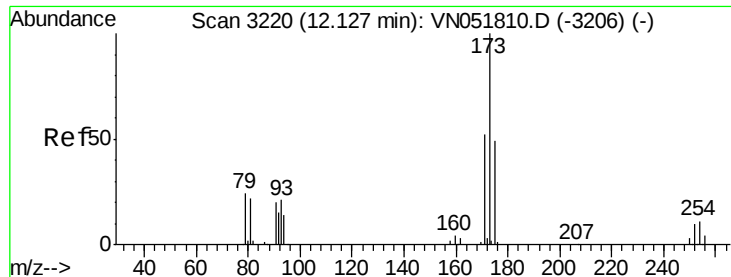
100000

0

11.97

Time-->





#71

Bromoform

Concen: 18.02 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN051819.D

Acq: 11 Oct 2018 18:19

Instrument :

MSVOA_N

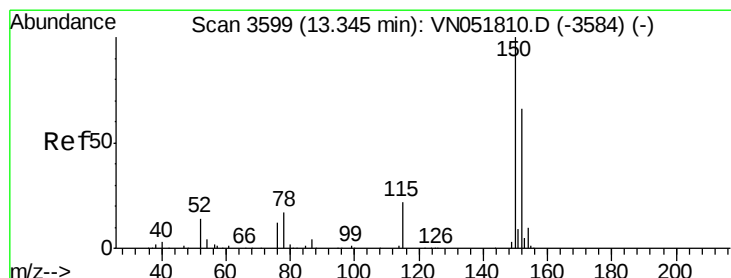
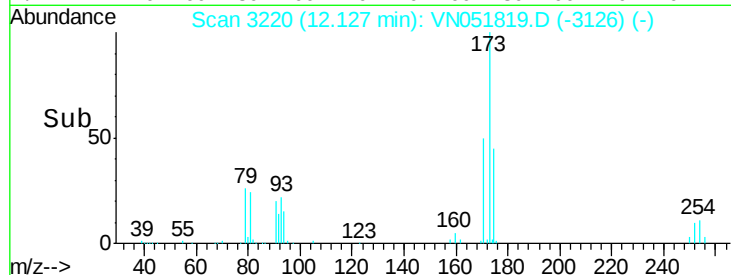
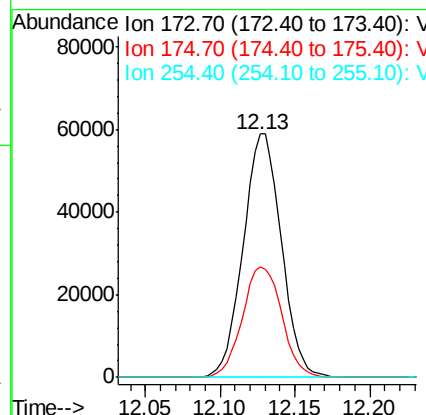
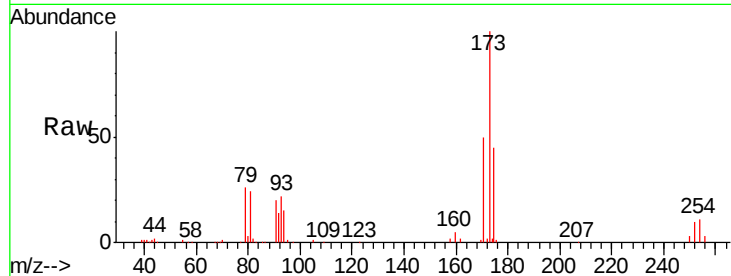
ClientSampleId :

VN1011WBSD01

Tgt Ion	Ratio	Lower	Upper
173	100		
175	46.9	24.4	73.4
254	0.0	0.1	0.1

Manual Integrations
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#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

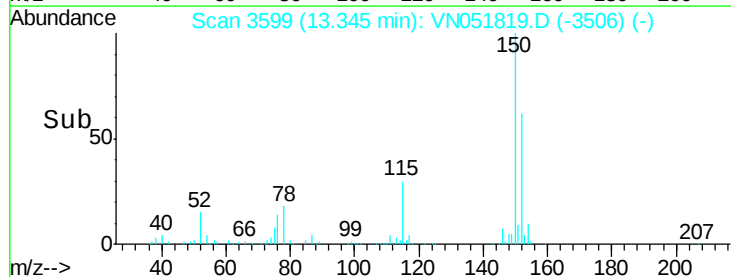
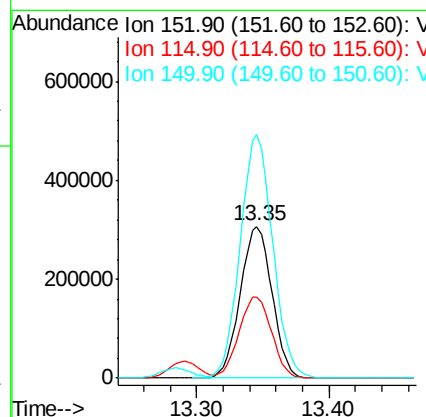
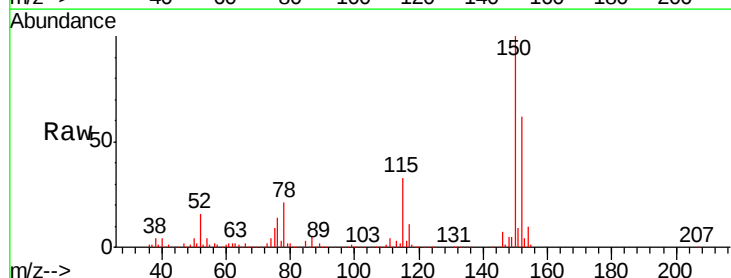
RT: 13.35 min Scan# 3599

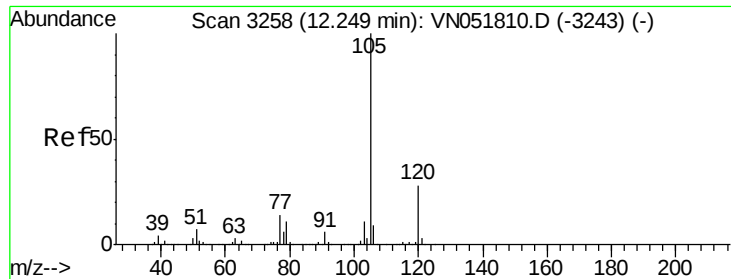
Delta R.T. 0.00 min

Lab File: VN051819.D

Acq: 11 Oct 2018 18:19

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.9	27.8	83.4
150	164.0	0.0	351.4





#73

Isopropylbenzene

Concen: 19.13 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN051819.D

Acq: 11 Oct 2018 18:19

Instrument :

MSVOA_N

ClientSampleId :

VN1011WBSD01

Tgt Ion: 105 Resp: 753683

Ion Ratio Lower Upper

105 100

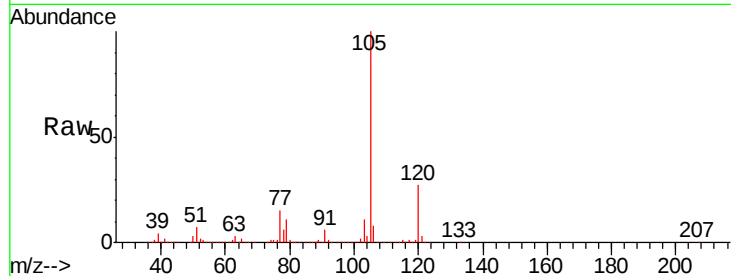
120 27.3 13.5 40.4

Manual Integrations

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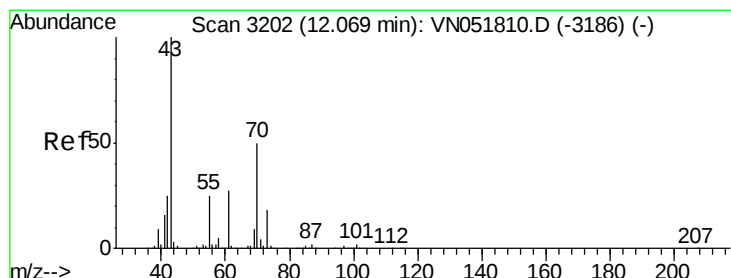
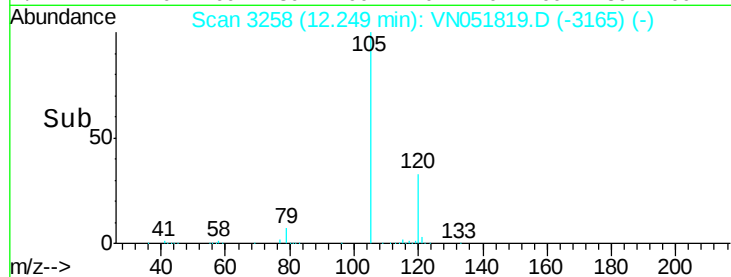
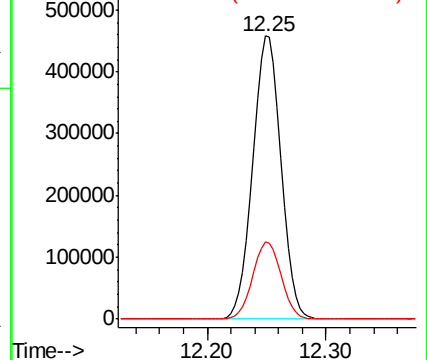
MMDadoda

10/15/2018 3:00:13 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 21.27 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN051819.D

Acq: 11 Oct 2018 18:19

Tgt Ion: 43 Resp: 166171

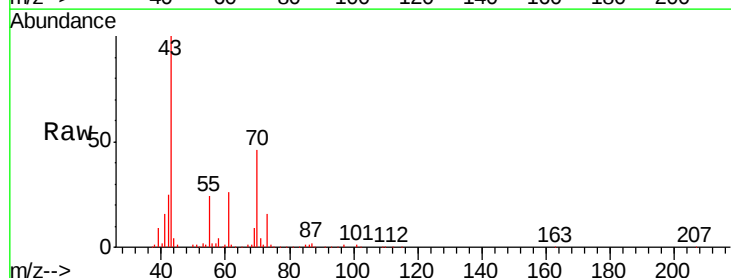
Ion Ratio Lower Upper

43 100

70 47.9 36.2 54.2

55 25.0 21.8 32.8

61 26.6 20.5 30.7

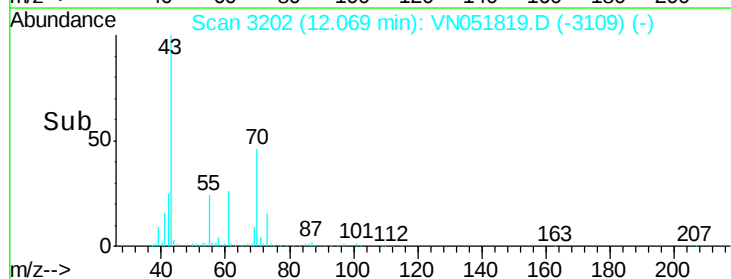
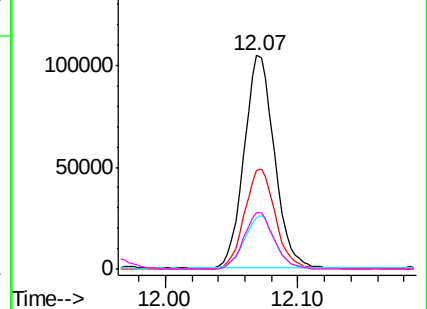


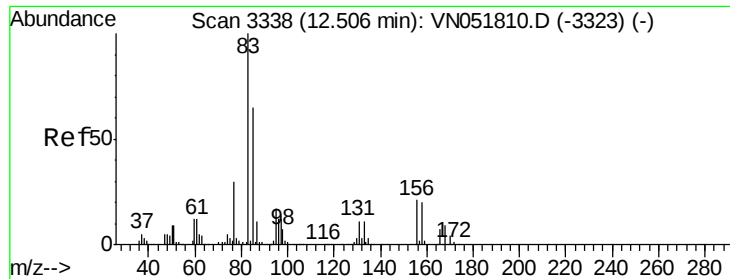
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: 19.88 ug/l

RT: 12.51 min Scan# 3338

Delta R.T. 0.00 min

Lab File: VN051819.D

Acq: 11 Oct 2018 18:19

Instrument :

MSVOA_N

ClientSampleId :

VN1011WBSD01

Tgt Ion: 83 Resp: 172010
Ion Ratio Lower Upper

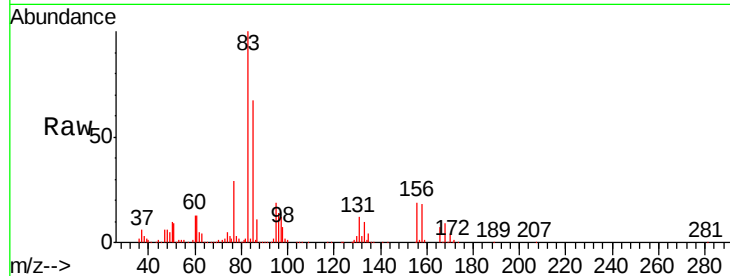
83 100

131 11.7 5.3 15.9

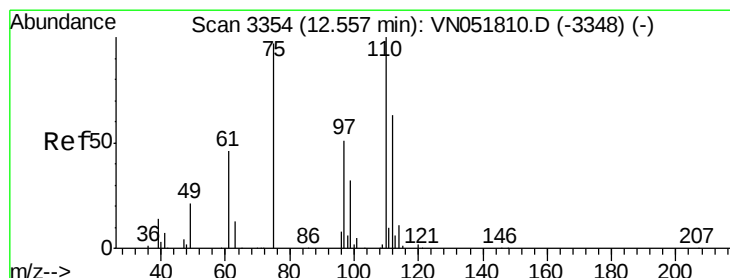
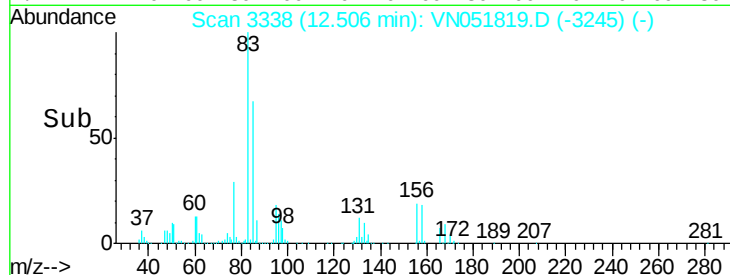
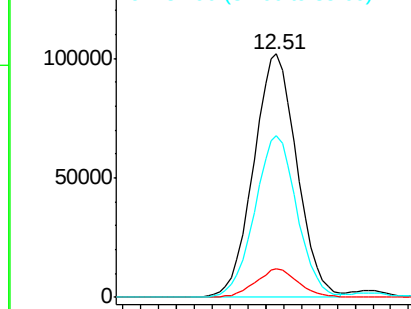
85 65.1 31.9 95.7

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



#76

1,2,3-Trichloropropane

Concen: 22.36 ug/l m

RT: 12.56 min Scan# 3354

Delta R.T. 0.00 min

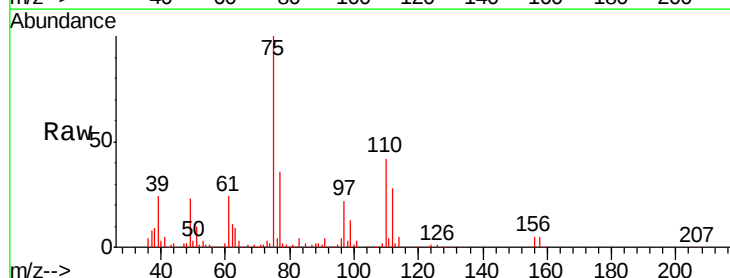
Lab File: VN051819.D

Acq: 11 Oct 2018 18:19

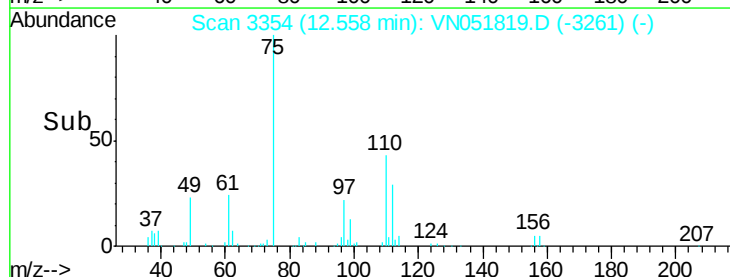
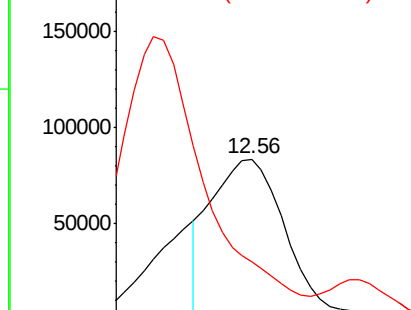
Tgt Ion: 75 Resp: 142618
Ion Ratio Lower Upper

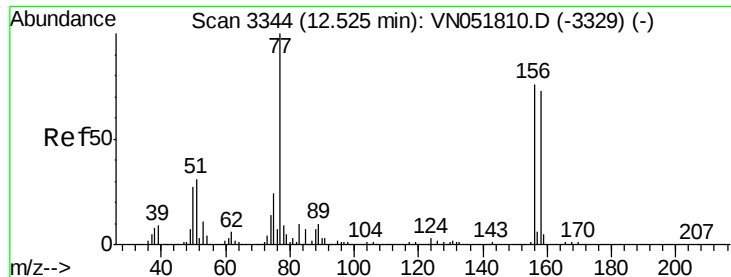
75 100

77 0.0 0.0 0.0



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





#77

Bromobenzene

Concen: 18.83 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN051819.D

Acq: 11 Oct 2018 18:19

Instrument :

MSVOA_N

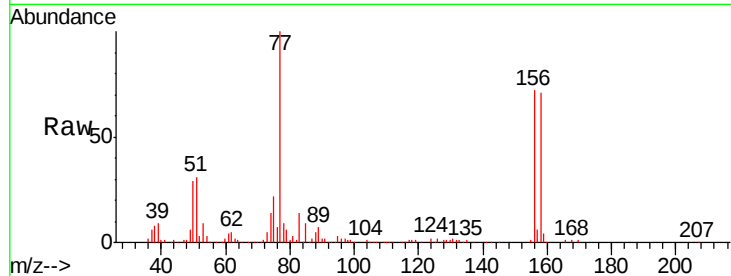
ClientSampleId :

VN1011WBSD01

Tgt Ion:	156	Resp:	184956
Ion Ratio	Lower	Upper	
156	100		
77	161.5	89.9	269.7
158	97.8	49.3	147.9

Manual Integrations
APPROVED

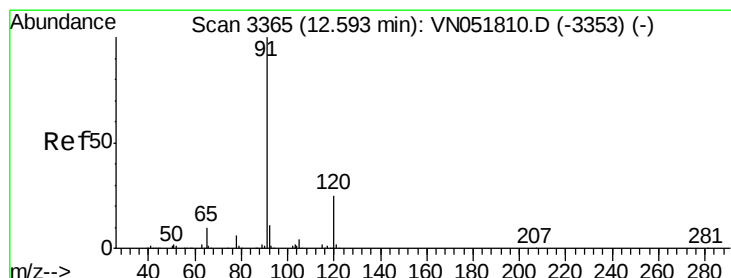
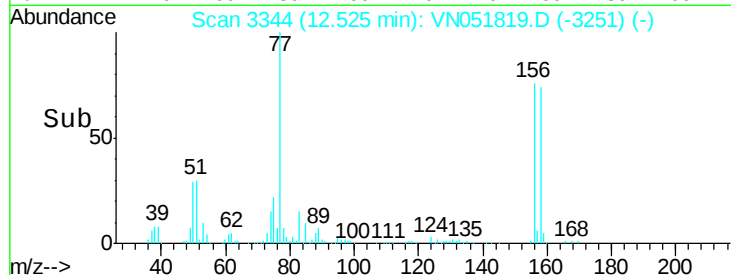
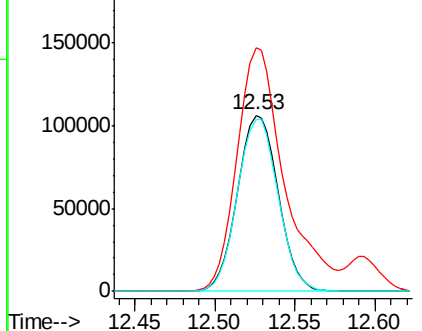
MMDadoda
10/15/2018 3:00:13 PM



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: 19.56 ug/l

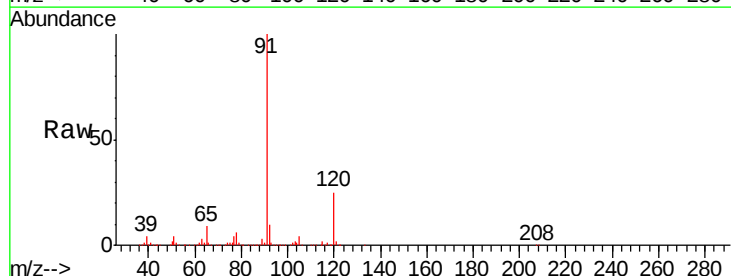
RT: 12.59 min Scan# 3365

Delta R.T. 0.00 min

Lab File: VN051819.D

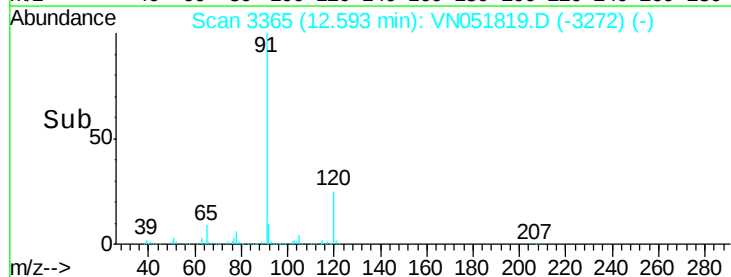
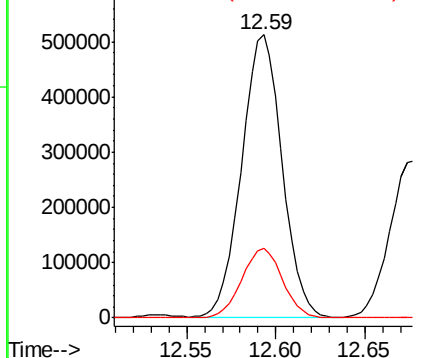
Acq: 11 Oct 2018 18:19

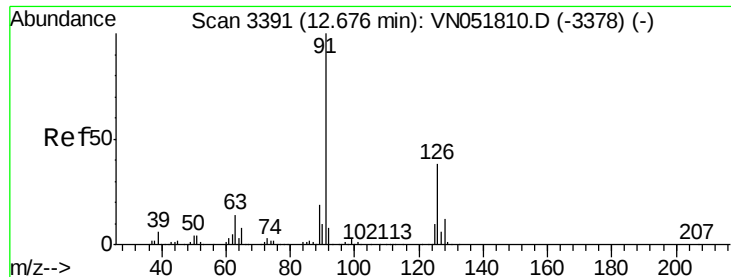
Tgt Ion:	91	Resp:	807123
Ion Ratio	Lower	Upper	
91	100		
120	24.8	11.7	35.0



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 19.04 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN051819.D

Acq: 11 Oct 2018 18:19

Instrument :

MSVOA_N

ClientSampleId :

VN1011WBSD01

Tgt Ion: 91 Resp: 473142

Ion Ratio Lower Upper

91 100

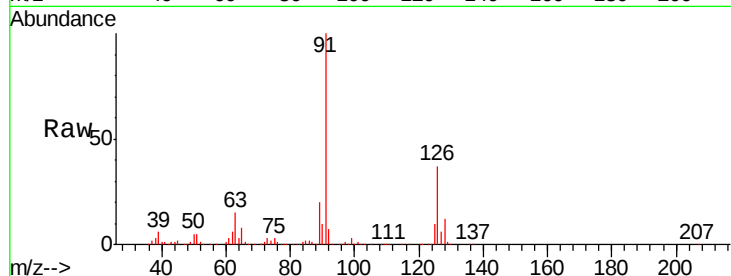
126 37.3 17.8 53.3

Manual Integrations

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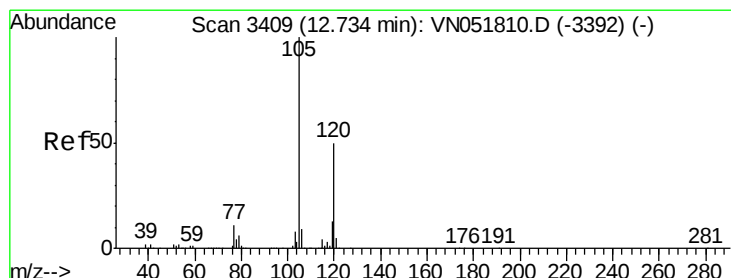
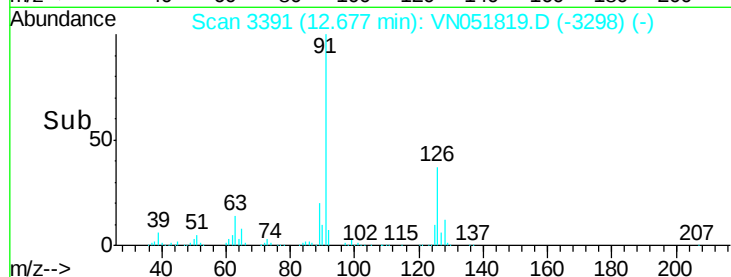
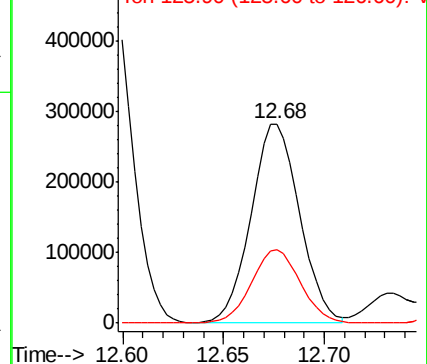
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Abundance Ion 91.00 (90.70 to 91.70): VN051819.D (-3378) (-)

Ion 125.90 (125.60 to 126.60): VN051819.D (-3378) (-)



#80

1,3,5-Trimethylbenzene

Concen: 19.34 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN051819.D

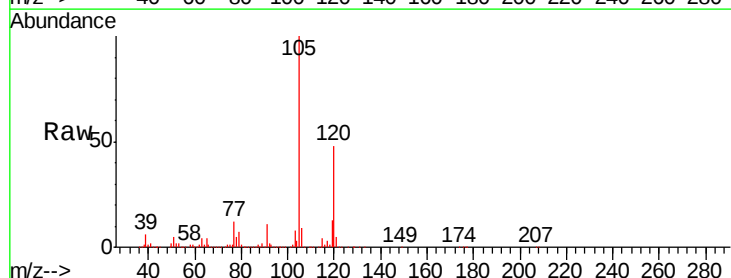
Acq: 11 Oct 2018 18:19

Tgt Ion: 105 Resp: 620982

Ion Ratio Lower Upper

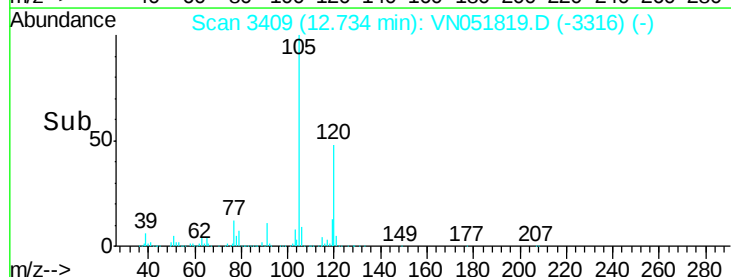
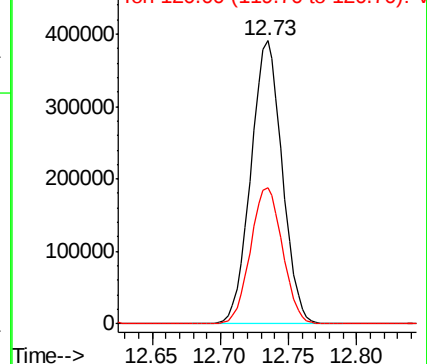
105 100

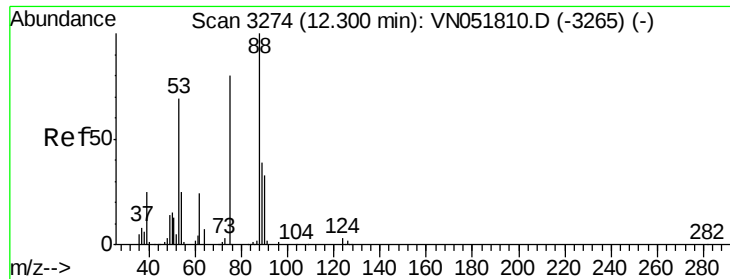
120 49.2 24.6 74.0



Abundance Ion 105.00 (104.70 to 105.70): VN051819.D (-3392) (-)

Ion 120.00 (119.70 to 120.70): VN051819.D (-3392) (-)





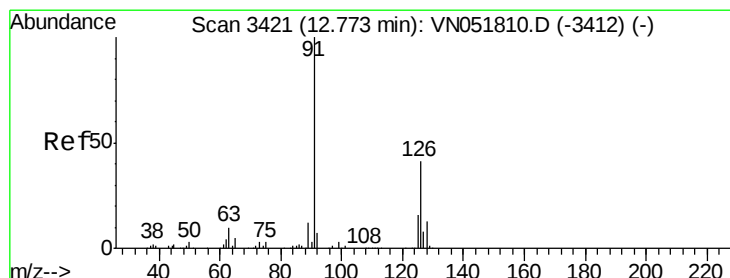
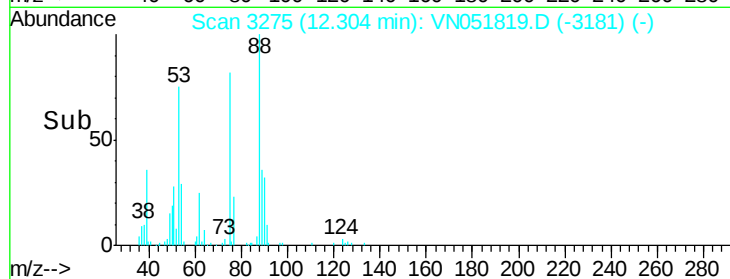
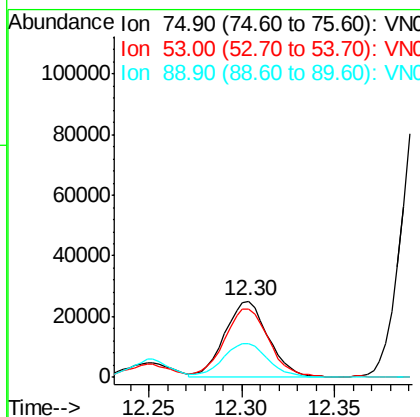
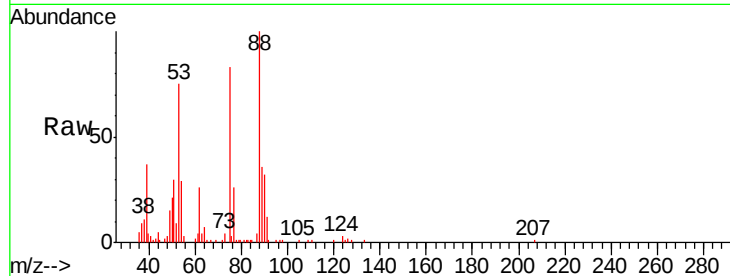
#81
trans-1,4-Dichloro-2-butene
Concen: 18.63 ug/l
RT: 12.30 min Scan# 3275
Delta R.T. 0.00 min
Lab File: VN051819.D
Acq: 11 Oct 2018 18:19

Instrument :
MSVOA_N
ClientSampleId :
VN1011WBSD01

Tgt Ion	Ratio	Lower	Upper
75	100		
53	89.7	68.9	103.3
89	45.7	36.1	54.1

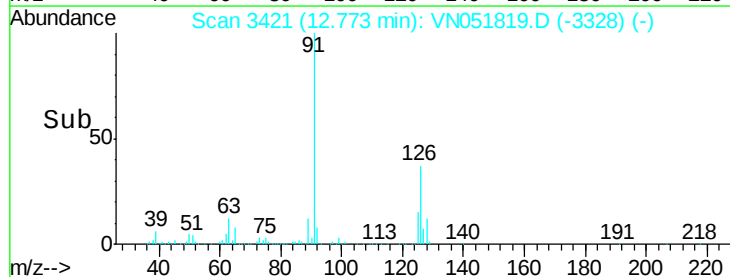
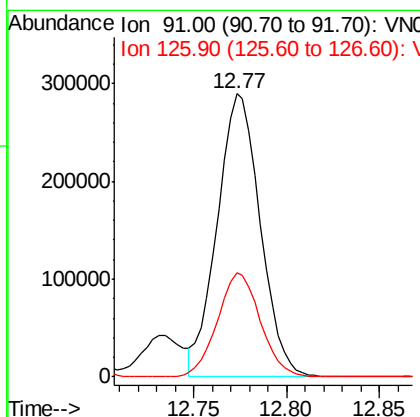
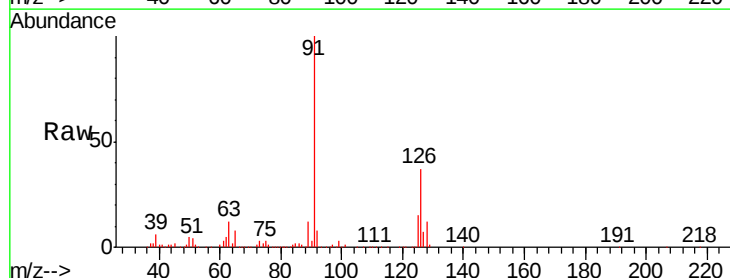
Manual Integrations
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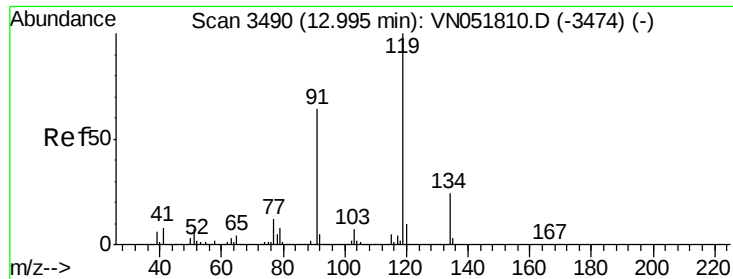
MMDadoda
10/15/2018 3:00:13 PM



#82
4-Chlorotoluene
Concen: 19.44 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. 0.00 min
Lab File: VN051819.D
Acq: 11 Oct 2018 18:19

Tgt Ion	Ratio	Lower	Upper
91	100		
126	36.9	17.5	52.5





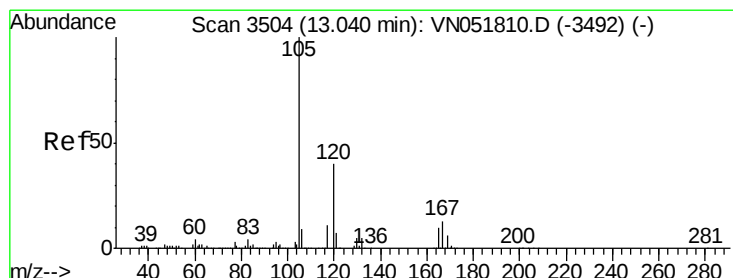
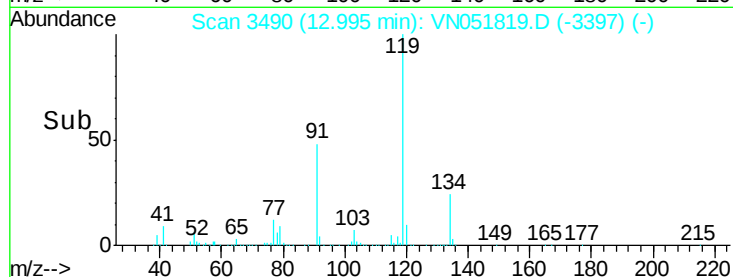
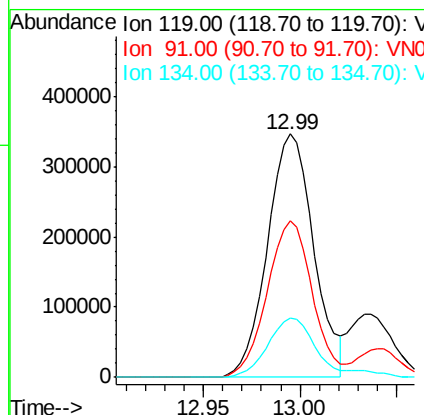
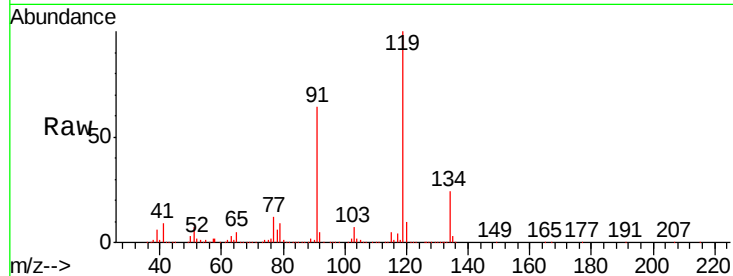
#83
 tert-Butylbenzene
 Concen: 19.37 ug/l
 RT: 12.99 min Scan# 3490
 Delta R.T. 0.00 min
 Lab File: VN051819.D
 Acq: 11 Oct 2018 18:19

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1011WBSD01

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	576750		
91	62.8	31.6	94.7	
134	24.7	13.4	40.1	

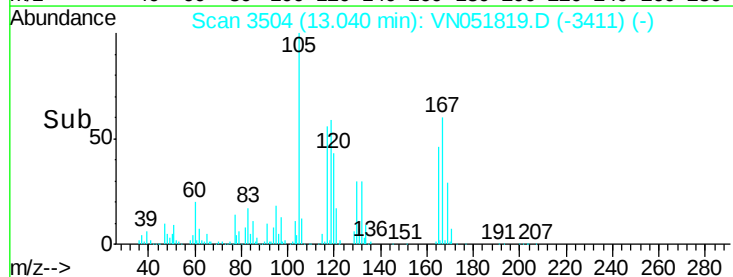
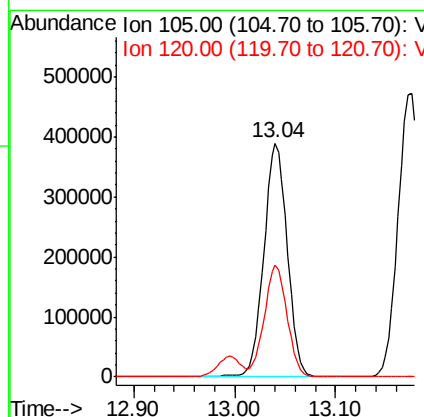
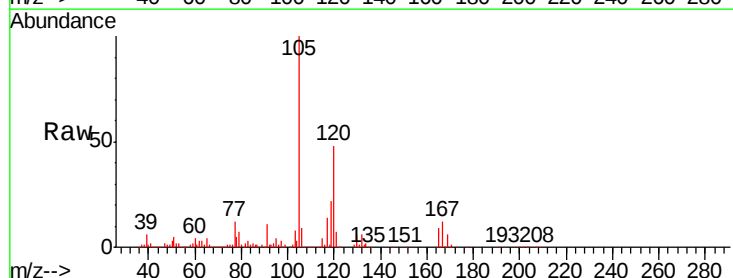
Manual Integrations
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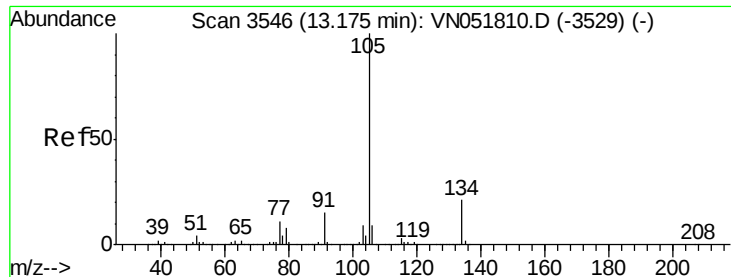
MMDadoda
 10/15/2018 3:00:13 PM



#84
 1,2,4-Trimethylbenzene
 Concen: 19.59 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.00 min
 Lab File: VN051819.D
 Acq: 11 Oct 2018 18:19

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	626387		
120	46.9	22.9	68.8	





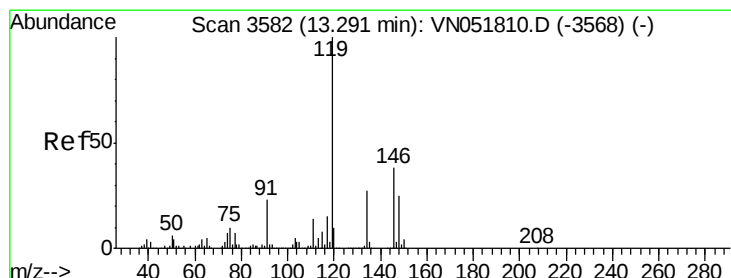
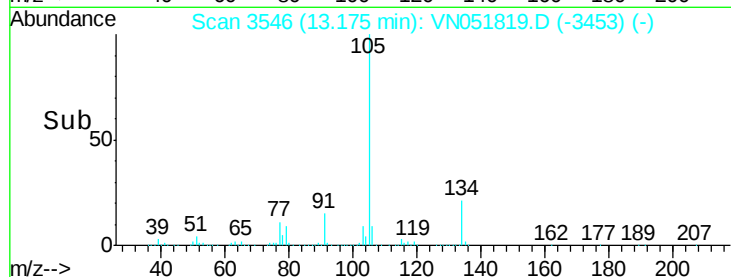
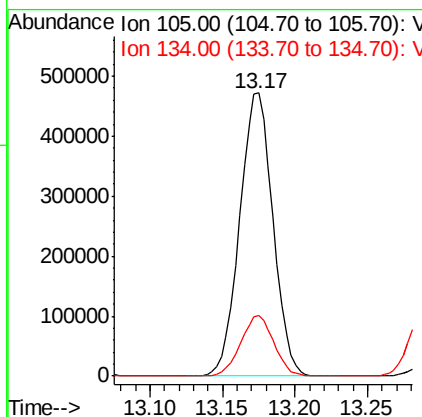
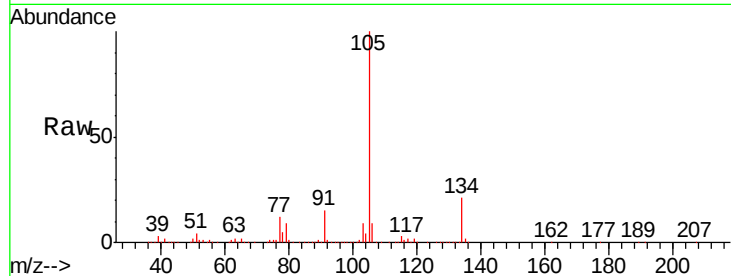
#85
 sec-Butylbenzene
 Concen: 19.46 ug/l
 RT: 13.17 min Scan# 3546
 Delta R.T. 0.00 min
 Lab File: VN051819.D
 Acq: 11 Oct 2018 18:19

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1011WBSD01

Tgt Ion:105 Resp: 750683
 Ion Ratio Lower Upper
 105 100
 134 21.2 10.3 30.8

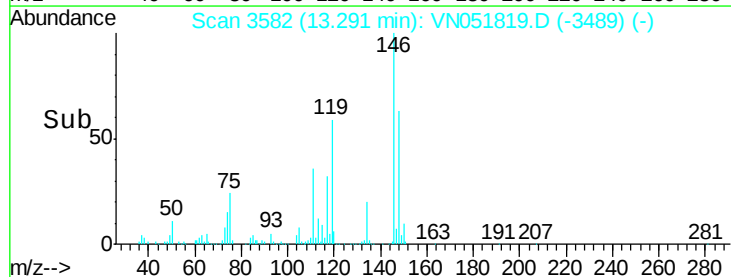
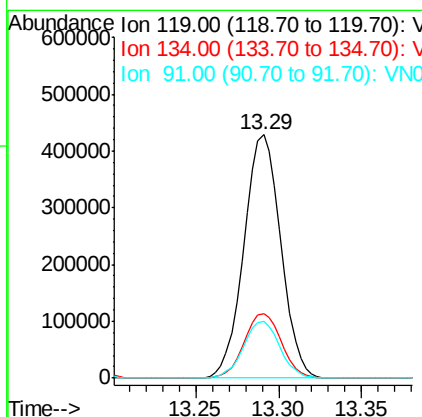
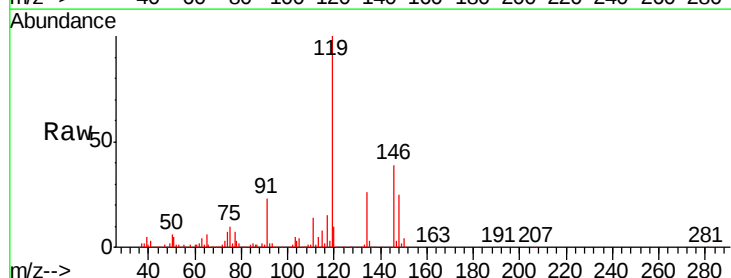
Manual Integrations
 APPROVED

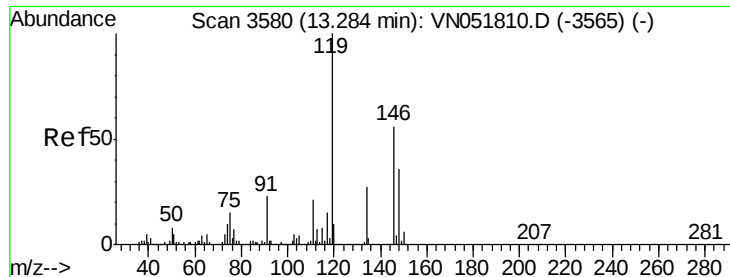
MMDadoda
 10/15/2018 3:00:13 PM



#86
 p-Isopropyltoluene
 Concen: 19.48 ug/l
 RT: 13.29 min Scan# 3582
 Delta R.T. 0.00 min
 Lab File: VN051819.D
 Acq: 11 Oct 2018 18:19

Tgt Ion:119 Resp: 660864
 Ion Ratio Lower Upper
 119 100
 134 26.5 13.7 41.0
 91 22.9 11.2 33.5





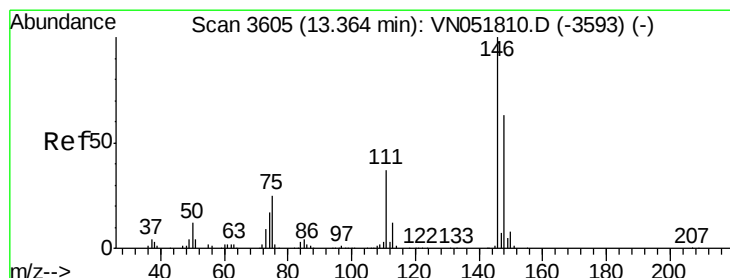
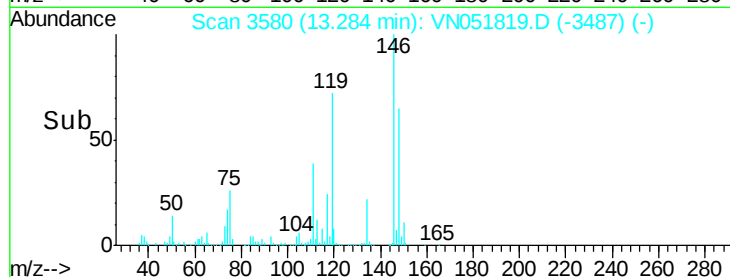
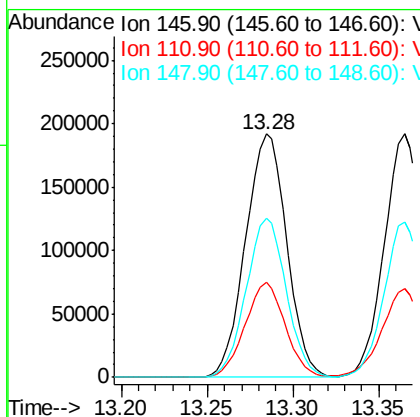
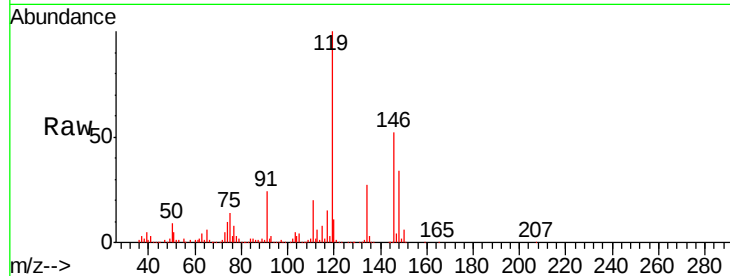
#87
 1,3-Dichlorobenzene
 Concen: 18.97 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN051819.D
 Acq: 11 Oct 2018 18:19

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1011WBSD01

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.8	19.1	57.3
148	63.7	32.2	96.6

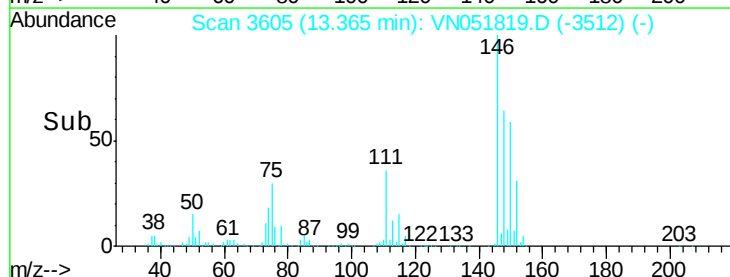
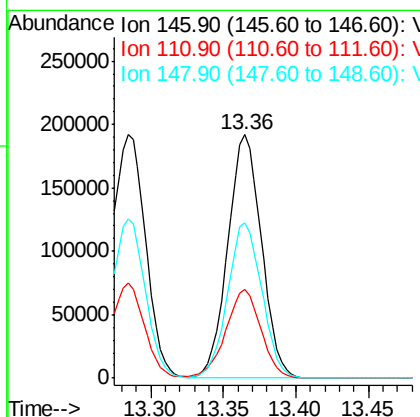
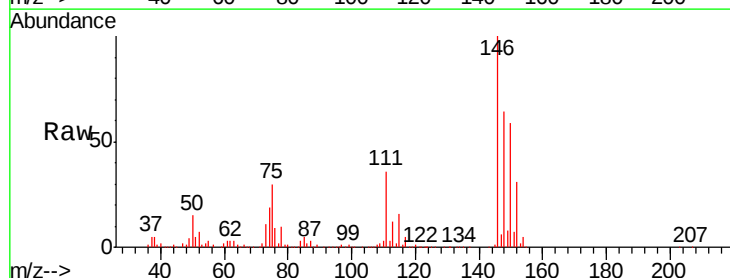
Manual Integrations
 APPROVED

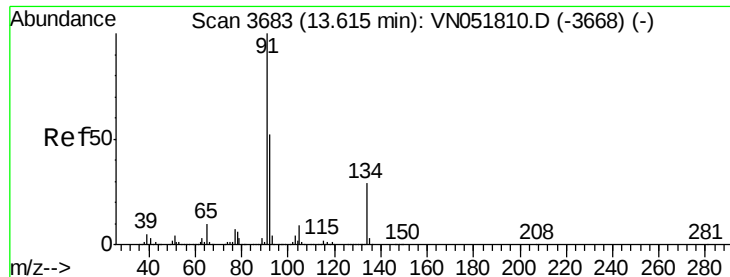
MMDadoda
 10/15/2018 3:00:13 PM



#88
 1,4-Dichlorobenzene
 Concen: 18.94 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN051819.D
 Acq: 11 Oct 2018 18:19

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.5	18.8	56.3
148	64.9	32.2	96.6





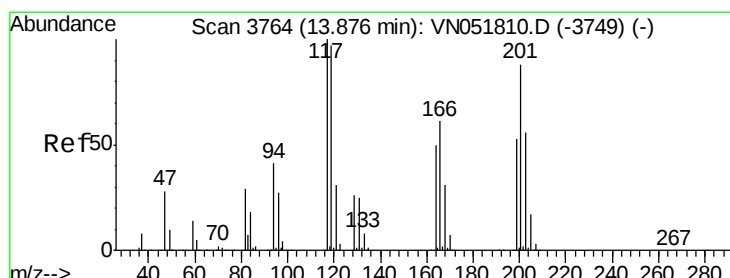
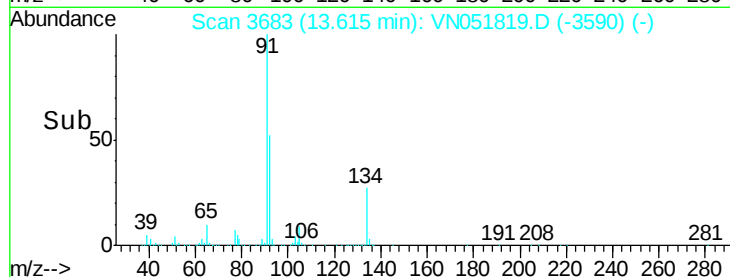
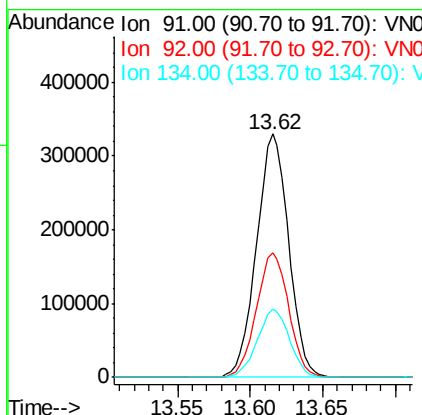
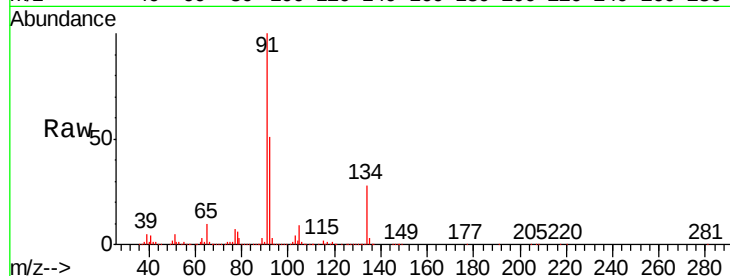
#89
n-Butylbenzene
Concen: 20.18 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN051819.D
Acq: 11 Oct 2018 18:19

Instrument :
MSVOA_N
ClientSampleId :
VN1011WBSD01

Tgt Ion	Ratio	Lower	Upper
91	100		
92	51.5	26.1	78.2
134	28.2	13.2	39.6

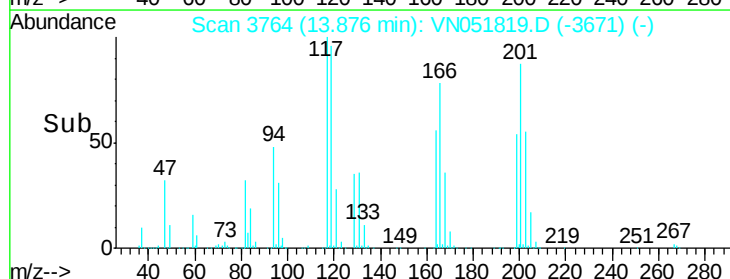
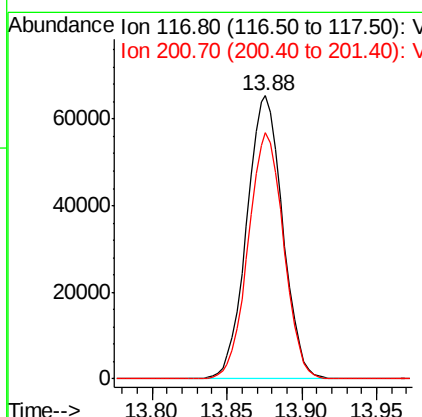
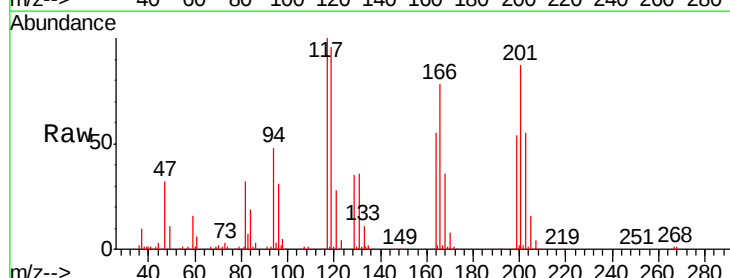
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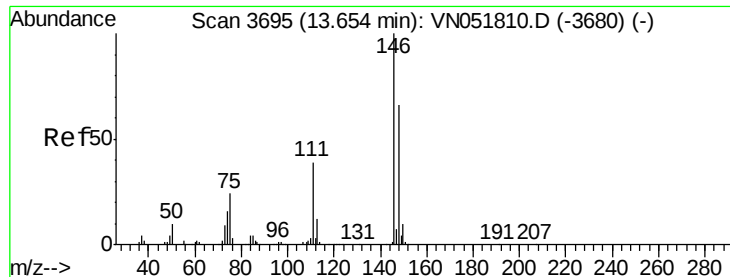
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#90
Hexachloroethane
Concen: 17.76 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. 0.00 min
Lab File: VN051819.D
Acq: 11 Oct 2018 18:19

Tgt Ion	Ratio	Lower	Upper
117	100		
201	85.4	46.0	137.8





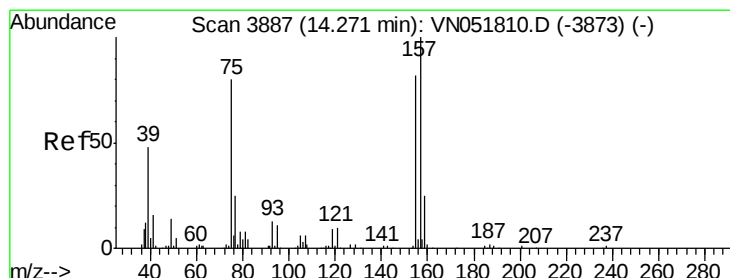
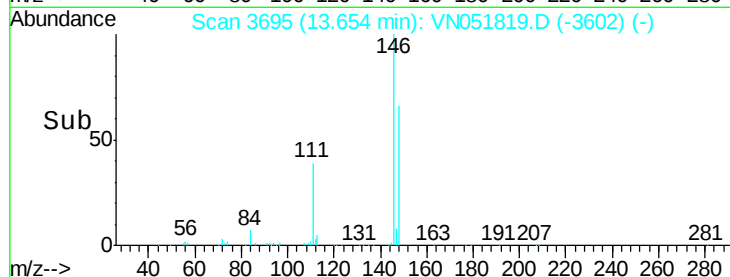
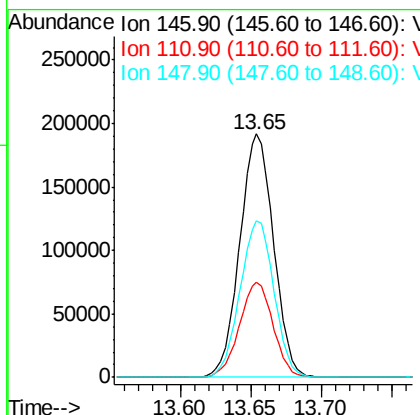
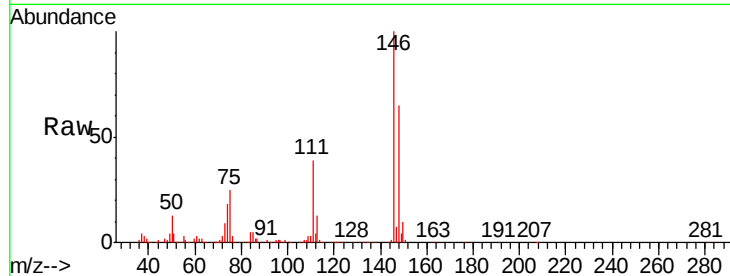
#91
 1,2-Dichlorobenzene
 Concen: 19.85 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN051819.D
 Acq: 11 Oct 2018 18:19

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1011WBSD01

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	322313		
111	38.7	19.8	59.3	
148	64.6	32.3	96.8	

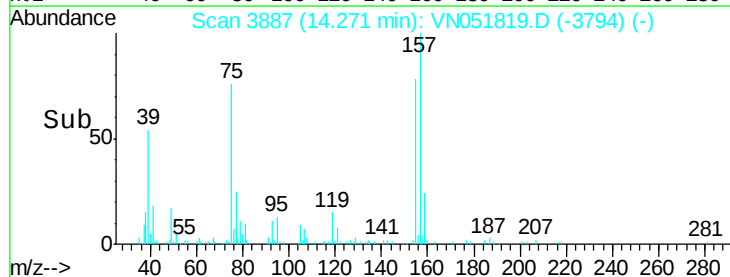
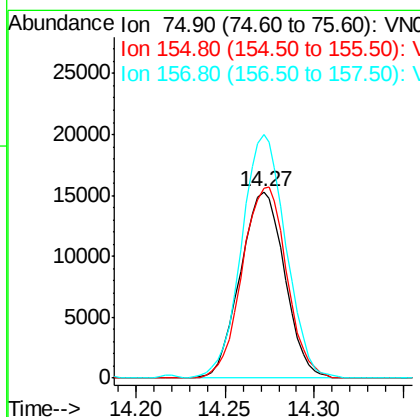
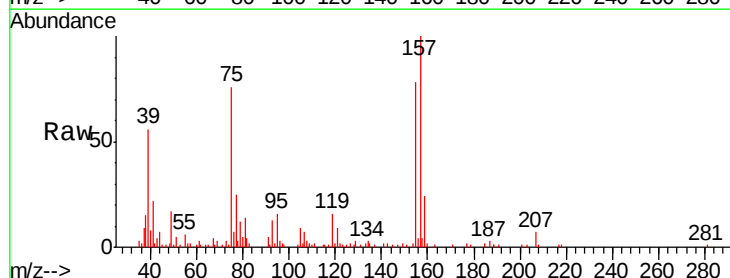
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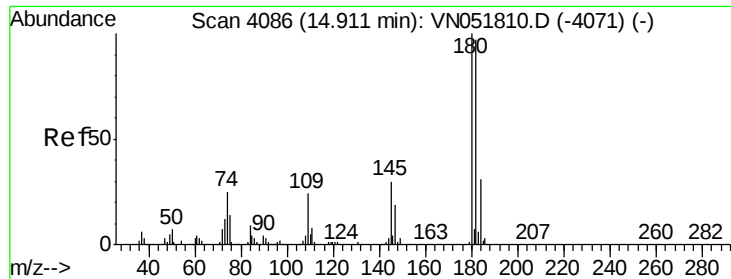
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 20.91 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. 0.00 min
 Lab File: VN051819.D
 Acq: 11 Oct 2018 18:19

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	26635		
155	102.7	46.4	139.1	
157	130.5	60.7	182.0	





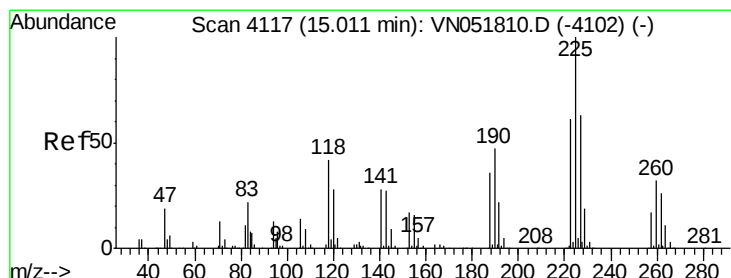
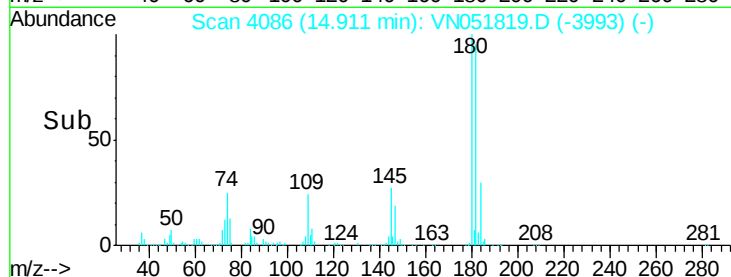
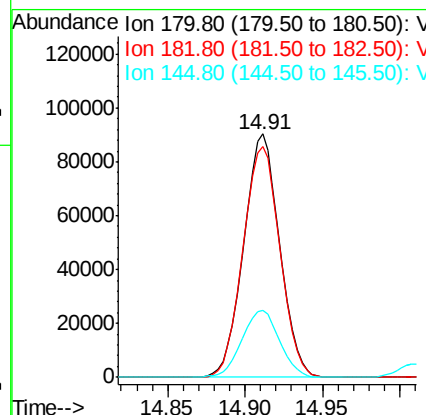
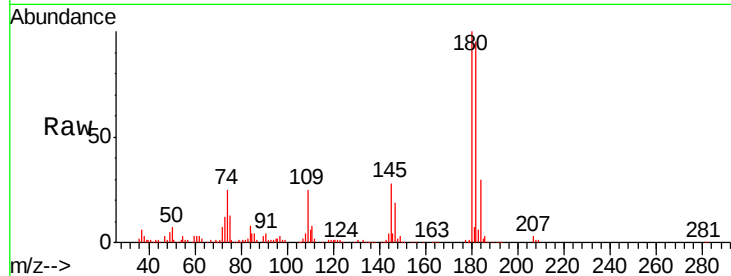
#93
 1,2,4-Trichlorobenzene
 Concen: 19.42 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN051819.D
 Acq: 11 Oct 2018 18:19

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1011WBSD01

Tgt Ion	Ratio	Lower	Upper
180	100		
182	97.3	48.2	144.6
145	29.1	14.1	42.2

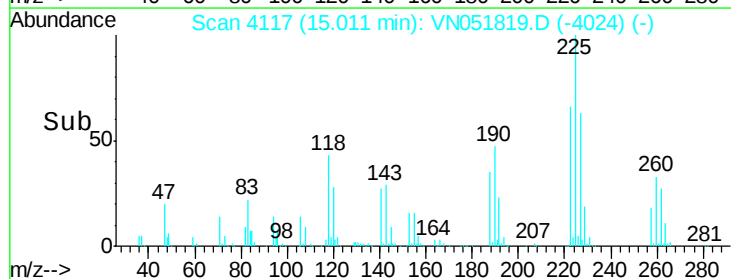
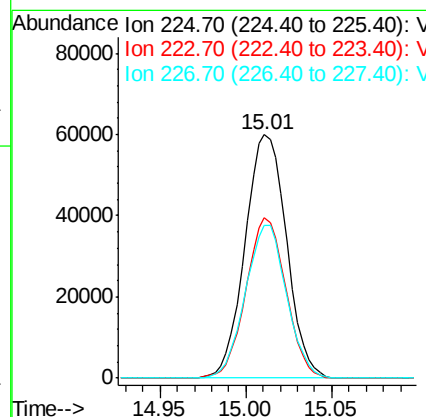
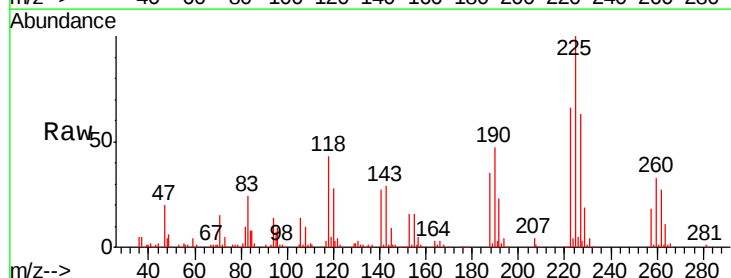
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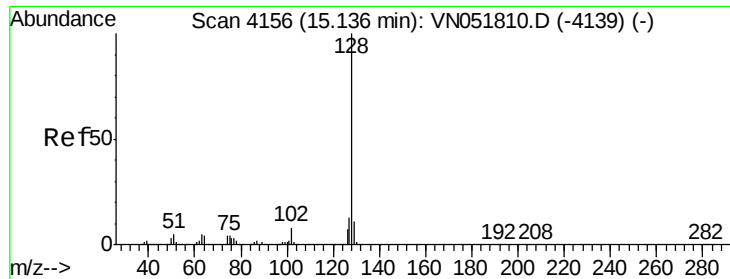
MMDadoda
 10/15/2018 3:00:13 PM



#94
 Hexachlorobutadiene
 Concen: 19.10 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN051819.D
 Acq: 11 Oct 2018 18:19

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.3	31.3	93.8
227	62.4	32.0	96.2





#95

Naphthalene

Concen: 20.33 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN051819.D

Acq: 11 Oct 2018 18:19

Instrument :

MSVOA_N

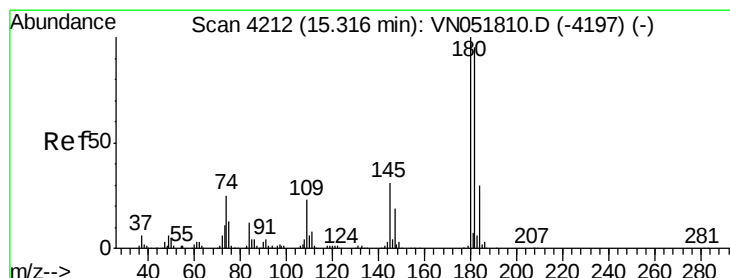
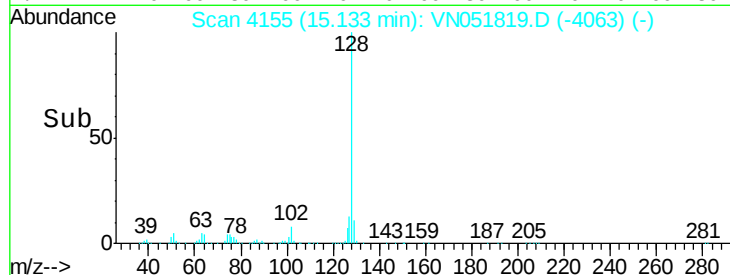
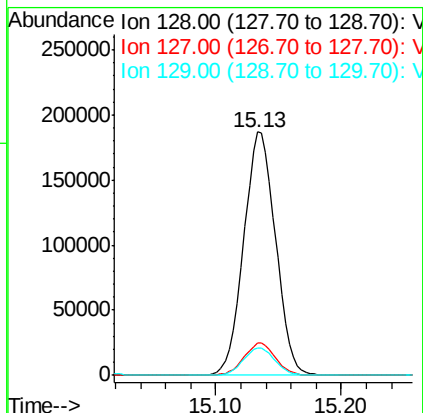
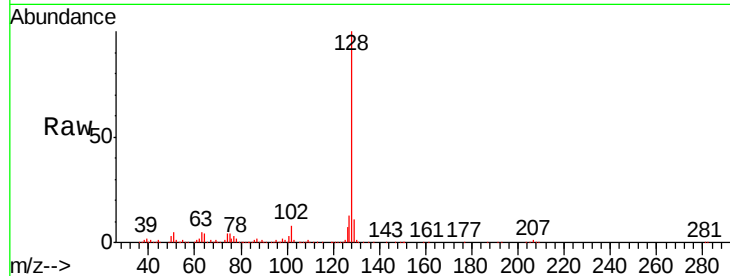
ClientSampleId :

VN1011WBSD01

Tgt Ion:	128	Resp:	329079
Ion Ratio	Lower	Upper	
128	100		
127	13.2	10.5	15.7
129	11.4	8.7	13.1

Manual Integrations
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#96

1,2,3-Trichlorobenzene

Concen: 20.67 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN051819.D

Acq: 11 Oct 2018 18:19

Tgt Ion:	180	Resp:	157286
Ion Ratio	Lower	Upper	
180	100		
182	93.6	48.0	144.2
145	30.9	15.2	45.6

