

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081618\
 Data File : VN050693.D
 Acq On : 16 Aug 2018 11:05
 Operator : MD\SY
 Sample : VN0816WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0816WBSD01

Manual Integrations
 APPROVED

MMDadoda
 8/17/2018 3:55:34 PM

Quant Time: Aug 17 03:50:23 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N081418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 14 08:07:08 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	651131	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	944303	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	840582	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	404040	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	412879	50.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.60%	
35) Dibromofluoromethane	7.59	113	383377	50.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.70%	
50) Toluene-d8	10.09	98	1427504	50.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.62%	
62) 4-Bromofluorobenzene	12.40	95	444692	47.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.88%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	130788	17.82	ug/l	98
3) Chloromethane	2.06	50	172993	19.03	ug/l	98
4) Vinyl Chloride	2.18	62	180738	18.53	ug/l	100
5) Bromomethane	2.56	94	104438	18.62	ug/l	99
6) Chloroethane	2.70	64	109285	19.19	ug/l	98
7) Trichlorofluoromethane	3.01	101	239049	18.68	ug/l	99
8) Diethyl Ether	3.41	74	83140	19.53	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	3.76	101	148123	19.14	ug/l	98
10) Methyl Iodide	3.95	142	96097	21.99	ug/l	100
11) Tert butyl alcohol	4.79	59	48605	108.46	ug/l #	89
12) 1,1-Dichloroethene	3.73	96	131471	18.61	ug/l	100
13) Acrolein	3.61	56	12899	68.25	ug/l	98
14) Allyl chloride	4.32	41	210475	19.15	ug/l	99
15) Acrylonitrile	4.99	53	244888	99.49	ug/l	99
16) Acetone	3.82	43	219697	106.37	ug/l	98
17) Carbon Disulfide	4.05	76	401631	18.06	ug/l	99
18) Methyl Acetate	4.33	43	126344	21.35	ug/l	100
19) Methyl tert-butyl Ether	5.05	73	358899	19.96	ug/l	100
20) Methylene Chloride	4.55	84	156292	19.25	ug/l	96
21) trans-1,2-Dichloroethene	5.04	96	145682	19.02	ug/l	100
22) Diisopropyl ether	5.96	45	454784	20.18	ug/l	96
23) Vinyl Acetate	5.90	43	1484167	100.69	ug/l	100
24) 1,1-Dichloroethane	5.85	63	275240	18.88	ug/l	99
25) 2-Butanone	6.84	43	350058	104.02	ug/l	100
26) 1,2-Dichloropropane	6.82	77	217421	22.28	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	164290	19.26	ug/l	99
28) Bromochloromethane	7.20	49	131103	19.76	ug/l	97
29) Tetrahydrofuran	7.22	42	182466	103.85	ug/l	99
30) Chloroform	7.37	83	277137	18.76	ug/l	99
31) Cyclohexane	7.66	56	242295	19.26	ug/l	94
32) 1,1,1-Trichloroethane	7.57	97	236595	19.02	ug/l	99
36) 1,1-Dichloropropene	7.79	75	210377	20.01	ug/l	99
37) Ethyl Acetate	6.93	43	125487	21.12	ug/l #	92
38) Carbon Tetrachloride	7.78	117	211984	19.44	ug/l	98

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 Misc : 5.00mL/MSVOA N/WATER
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Manual Integrations
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MMDadoda
 8/17/2018 3:55:34 PM

Quant Time: Aug 17 03:50:23 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N081418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 14 08:07:08 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	213905	19.65	ug/l	96
40) Benzene	8.04	78	639070	19.98	ug/l	99
41) Methacrylonitrile	7.18	41	65346	20.34	ug/l	95
42) 1,2-Dichloroethane	8.13	62	195480	19.94	ug/l	100
43) Isopropyl Acetate	8.17	43	225155	20.79	ug/l	100
44) Trichloroethene	8.84	130	163742	19.12	ug/l	98
45) 1,2-Dichloropropane	9.12	63	166492	19.56	ug/l	100
46) Dibromomethane	9.21	93	97779	19.45	ug/l	97
47) Bromodichloromethane	9.40	83	207029	19.27	ug/l	99
48) Methyl methacrylate	9.20	41	105572	19.38	ug/l	98
49) 1,4-Dioxane	9.20	88	29638	412.90	ug/l	98
51) 4-Methyl-2-Pentanone	9.99	43	786663	107.42	ug/l	99
52) Toluene	10.16	92	386512	20.24	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	199010	19.88	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	239067	20.82	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	142680	20.00	ug/l	99
56) Ethyl methacrylate	10.43	69	164502	19.29	ug/l	99
57) 1,3-Dichloropropane	10.71	76	235133	20.11	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.70	63	385998	95.29	ug/l	100
59) 2-Hexanone	10.75	43	503758	106.58	ug/l	99
60) Dibromochloromethane	10.90	129	155103	19.70	ug/l	100
61) 1,2-Dibromoethane	11.01	107	135239	19.91	ug/l	100
64) Tetrachloroethene	10.63	164	150836	19.32	ug/l	99
65) Chlorobenzene	11.44	112	414761	19.83	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	157375	20.07	ug/l	99
67) Ethyl Benzene	11.51	91	676330	20.02	ug/l	100
68) m/p-Xylenes	11.62	106	528592	40.91	ug/l	99
69) o-Xylene	11.95	106	249190	20.23	ug/l	99
70) Styrene	11.96	104	399011	18.81	ug/l	100
71) Bromoform	12.13	173	104995	20.19	ug/l #	99
73) Isopropylbenzene	12.25	105	664733	21.06	ug/l	100
74) N-amyl acetate	12.07	43	171791	20.92	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.50	83	173562	22.40	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	139743m	20.81	ug/l	
77) Bromobenzene	12.53	156	171769	20.04	ug/l	99
78) n-propylbenzene	12.59	91	732088	20.80	ug/l	100
79) 2-Chlorotoluene	12.68	91	455519	20.76	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	537015	21.25	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	39908	21.96	ug/l	98
82) 4-Chlorotoluene	12.77	91	449049	20.71	ug/l	99
83) tert-Butylbenzene	12.99	119	450582	20.54	ug/l	98
84) 1,2,4-Trimethylbenzene	13.04	105	546208	21.53	ug/l	100
85) sec-Butylbenzene	13.17	105	602099	21.00	ug/l	99
86) p-Isopropyltoluene	13.29	119	511625	21.06	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	290968	19.94	ug/l	100
88) 1,4-Dichlorobenzene	13.36	146	279841	19.32	ug/l	99
89) n-Butylbenzene	13.62	91	385999	19.68	ug/l	99
90) Hexachloroethane	13.88	117	97652	19.99	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	285284	20.04	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	23741	21.08	ug/l	97

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ALS Vial : 6 Sample Multiplier: 1

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ClientSampleId :
VN0816WBSD01

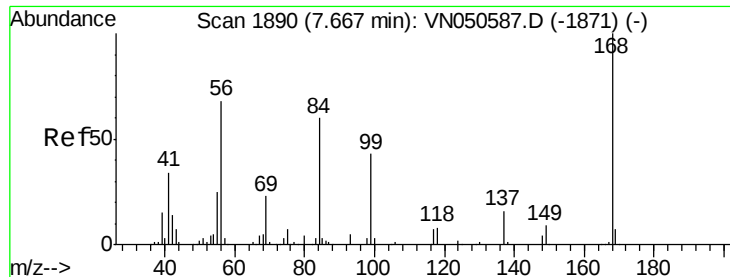
Manual Integrations
APPROVED

MMDadoda
8/17/2018 3:55:34 PM

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Quant Title : SW846 8260
QLast Update : Tue Aug 14 08:07:08 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	121402	18.40	ug/l	98
94) Hexachlorobutadiene	15.01	225	87964	20.16	ug/l	98
95) Naphthalene	15.13	128	237688	17.97	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	122991	19.26	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.00 min

Lab File: VN050693.D

Acq: 16 Aug 2018 11:05

Instrument :

MSVOA_N

ClientSampleId :

VN0816WBSD01

Tot Ion:168 Resp: 651131

Ion Ratio Lower Upper

168 100

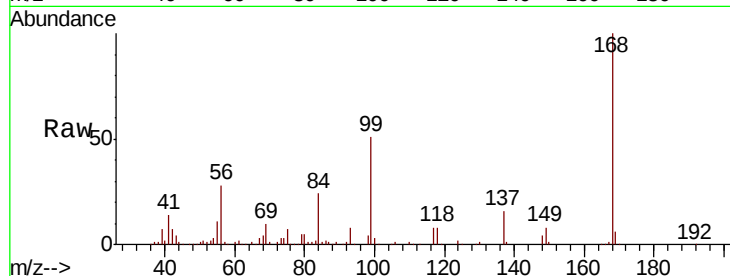
99 50.3 40.8 61.2

Manual Integrations

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8/17/2018 3:55:34 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

300000

250000

200000

150000

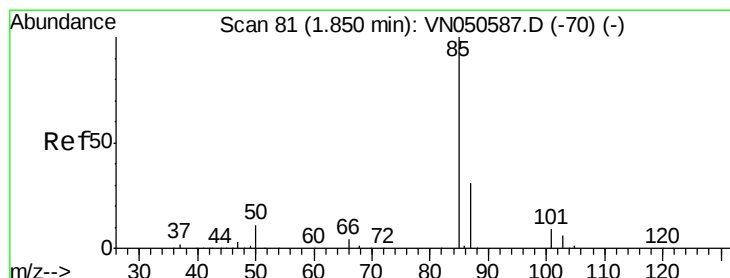
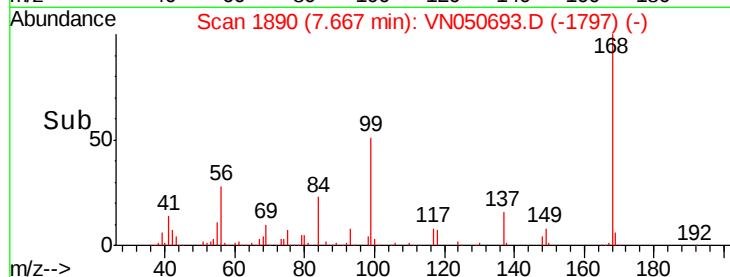
100000

50000

0

7.60 7.70 7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 17.82 ug/l

RT: 1.85 min Scan# 81

Delta R.T. 0.00 min

Lab File: VN050693.D

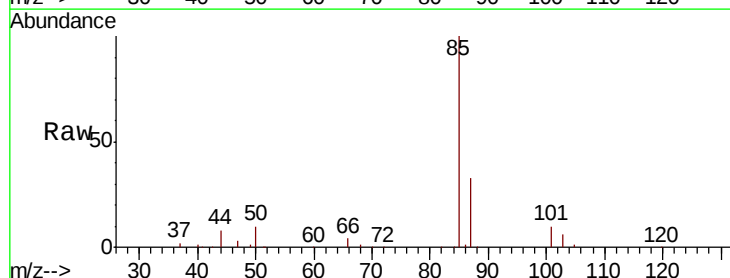
Acq: 16 Aug 2018 11:05

Tgt Ion: 85 Resp: 130788

Ion Ratio Lower Upper

85 100

87 32.6 15.8 47.3



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

1.85

100000

80000

60000

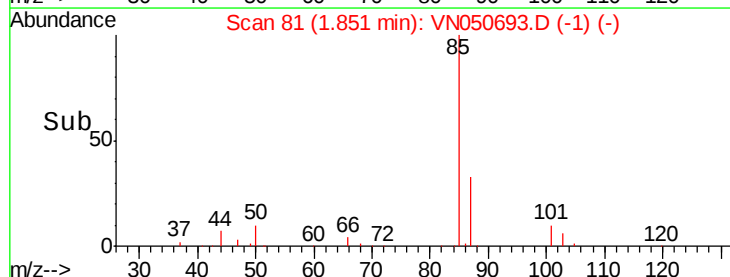
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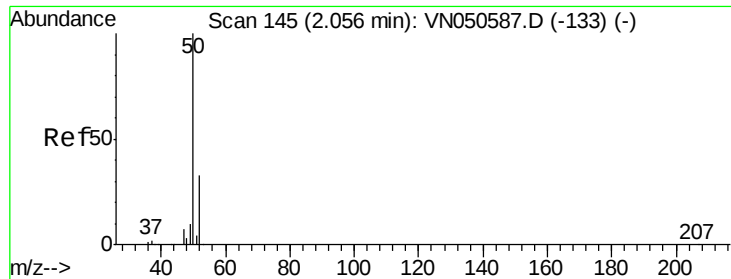
20000

0

1.80 1.85 1.90 1.95

Time-->





#3

Chloromethane

Concen: 19.03 ug/l

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN050693.D

Acq: 16 Aug 2018 11:05

Instrument :

MSVOA_N

ClientSampleId :

VN0816WBSD01

Tot Ion: 50 Resp: 172993

Ion Ratio Lower Upper

50 100

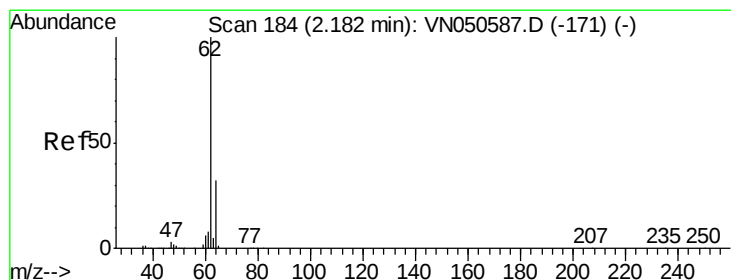
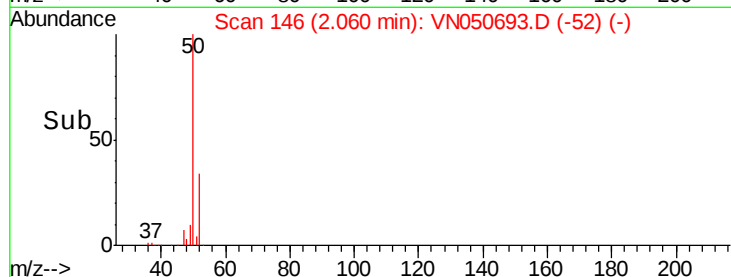
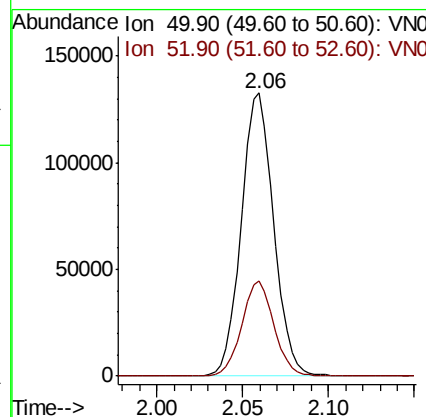
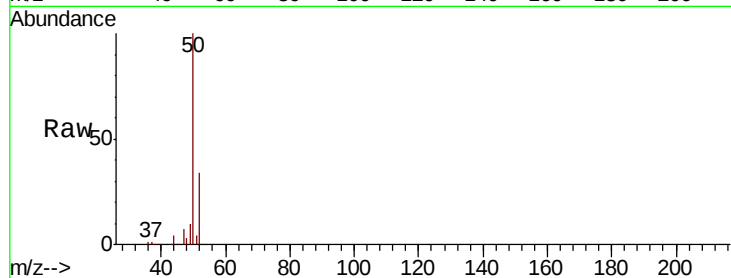
52 33.8 26.0 39.0

Manual Integrations

APPROVED

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8/17/2018 3:55:34 PM



#4

Vinyl Chloride

Concen: 18.53 ug/l

RT: 2.18 min Scan# 184

Delta R.T. 0.00 min

Lab File: VN050693.D

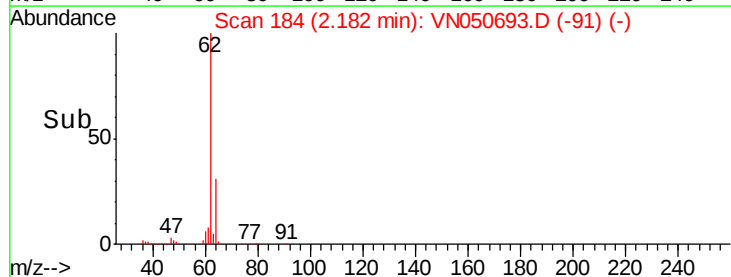
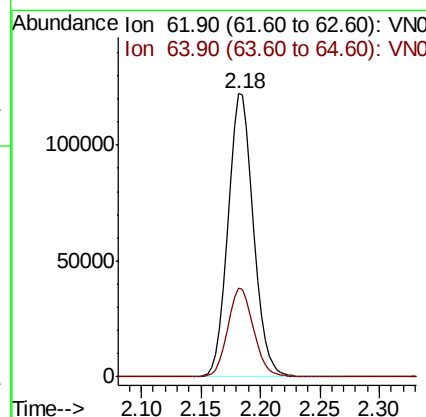
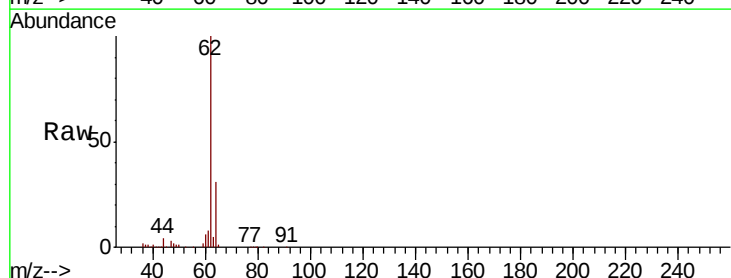
Acq: 16 Aug 2018 11:05

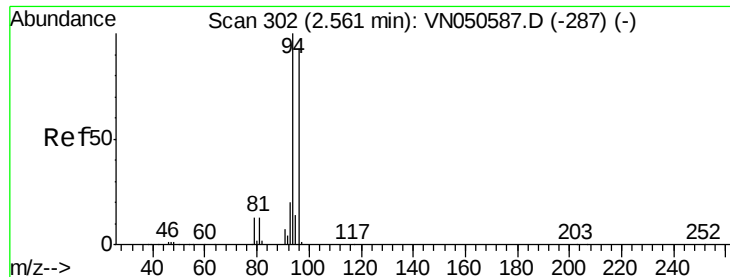
Tgt Ion: 62 Resp: 180738

Ion Ratio Lower Upper

62 100

64 31.3 25.2 37.8





#5

Bromomethane

Concen: 18.62 ug/l

RT: 2.56 min Scan# 303

Delta R.T. 0.00 min

Lab File: VN050693.D

Acq: 16 Aug 2018 11:05

Instrument :

MSVOA_N

ClientSampleId :

VN0816WBSD01

Tot Ion: 94 Resp: 104438

Ion Ratio Lower Upper

94 100

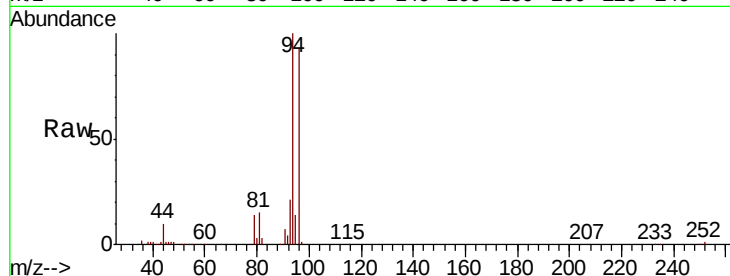
96 93.1 74.0 111.0

Manual Integrations

APPROVED

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8/17/2018 3:55:34 PM



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

60000

50000

40000

30000

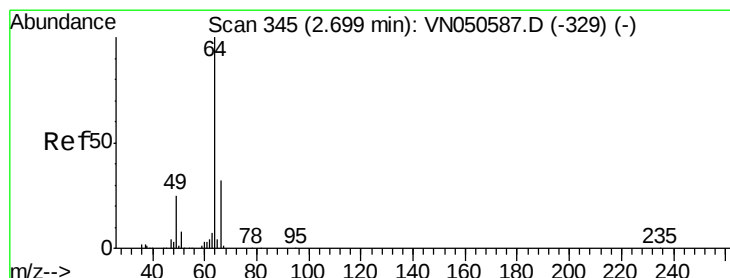
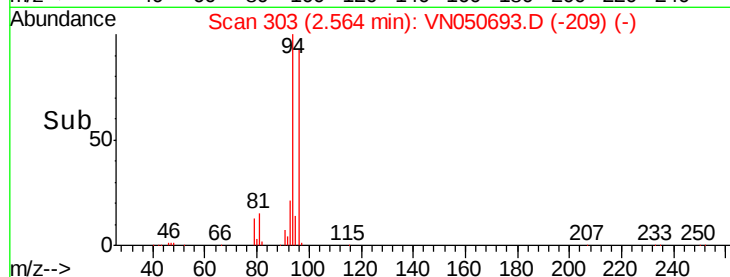
20000

10000

0

2.50 2.55 2.60 2.65

Time-->



#6

Chloroethane

Concen: 19.19 ug/l

RT: 2.70 min Scan# 346

Delta R.T. 0.00 min

Lab File: VN050693.D

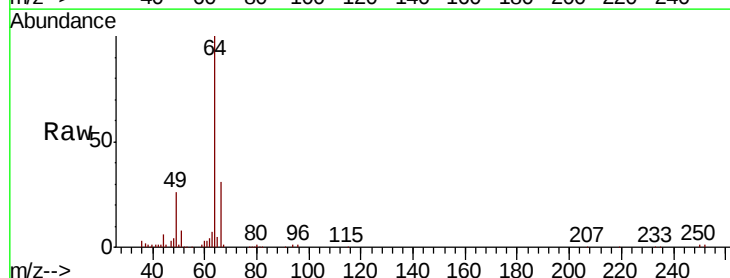
Acq: 16 Aug 2018 11:05

Tgt Ion: 64 Resp: 109285

Ion Ratio Lower Upper

64 100

66 31.2 25.7 38.5



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0

60000

50000

40000

30000

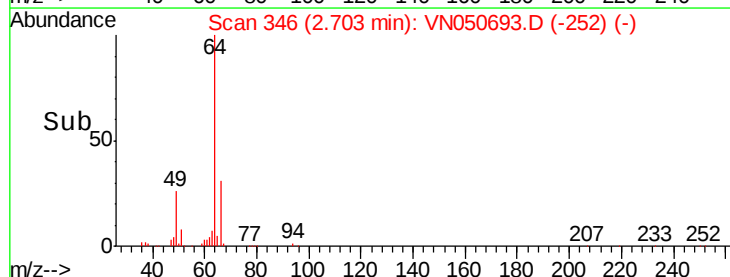
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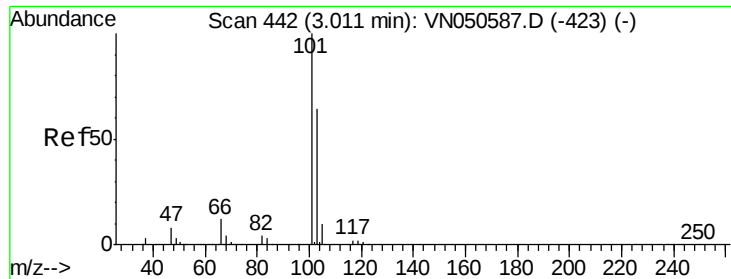
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2.60 2.65 2.70 2.75 2.80

Time-->





#7

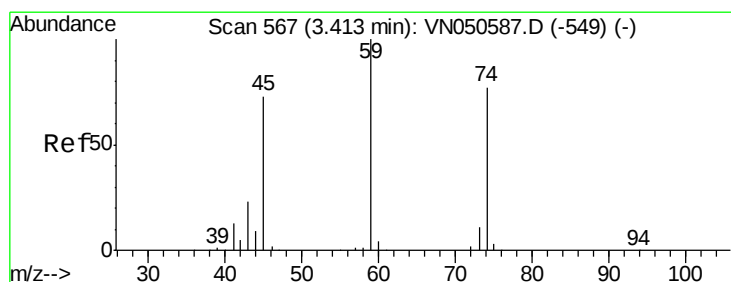
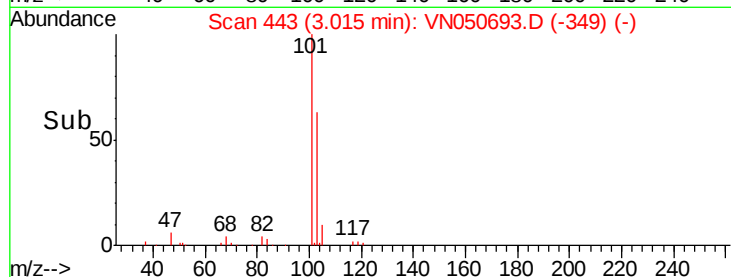
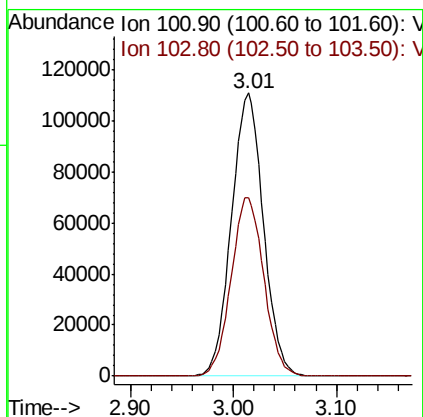
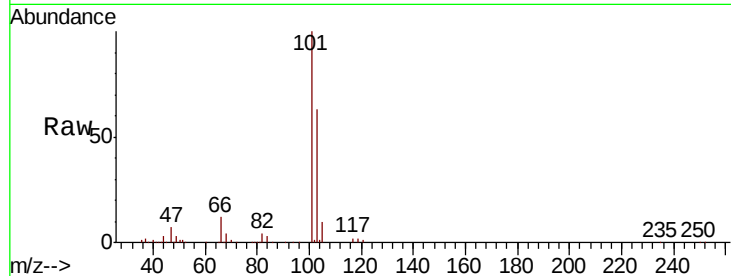
Trichlorofluoromethane
Concen: 18.68 ug/l
RT: 3.01 min Scan# 443
Delta R.T. 0.00 min
Lab File: VN050693.D
Acq: 16 Aug 2018 11:05

Instrument :
MSVOA_N
ClientSampleId :
VN0816WBSD01

Tot Ion:101 Resp: 239049
Ion Ratio Lower Upper
101 100
103 63.2 51.4 77.0

Manual Integrations
APPROVED

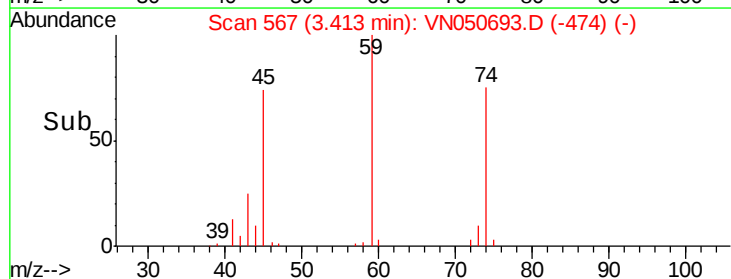
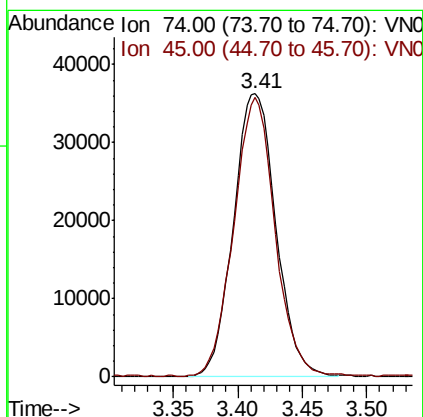
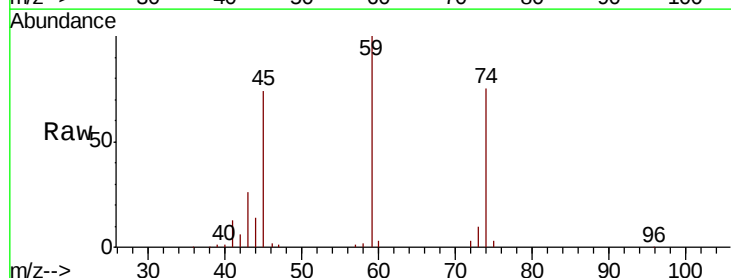
MMDadoda
8/17/2018 3:55:34 PM

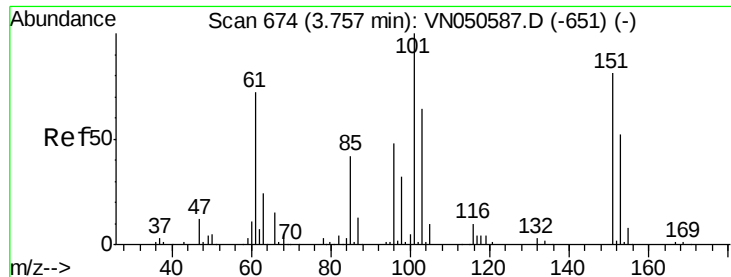


#8

Diethyl Ether
Concen: 19.53 ug/l
RT: 3.41 min Scan# 567
Delta R.T. 0.00 min
Lab File: VN050693.D
Acq: 16 Aug 2018 11:05

Tgt Ion: 74 Resp: 83140
Ion Ratio Lower Upper
74 100
45 96.3 48.0 144.2





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.14 ug/l

RT: 3.76 min Scan# 674

Delta R.T. 0.00 min

Lab File: VN050693.D

Acq: 16 Aug 2018 11:05

Instrument :

MSVOA_N

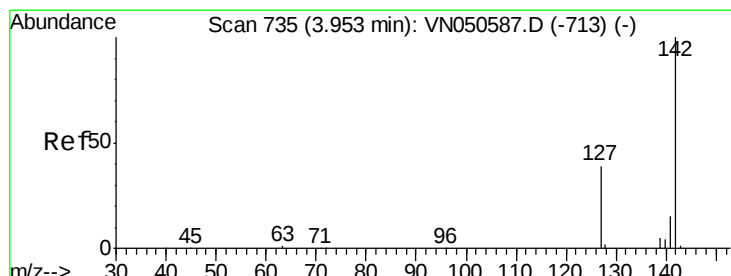
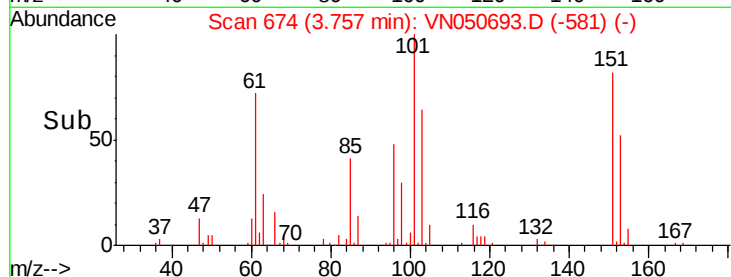
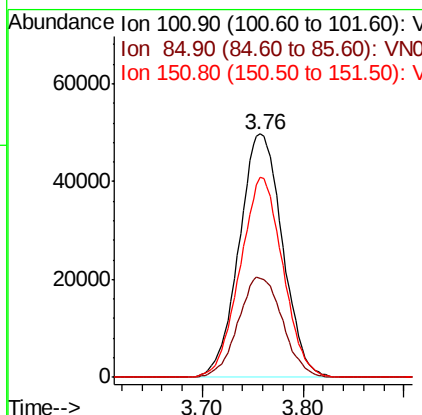
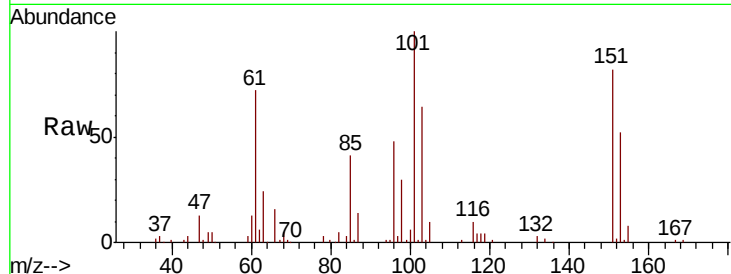
ClientSampleId :

VN0816WBSD01

Tot Ion:	101	Resp:	148123
Ion Ratio	Lower	Upper	
101	100		
85	41.9	33.4	50.0
151	81.2	66.6	100.0

Manual Integrations
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#10

Methyl Iodide

Concen: 21.99 ug/l

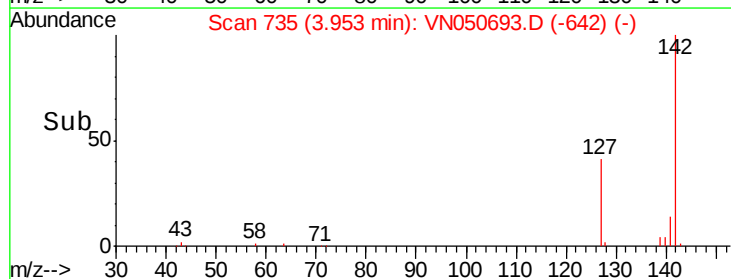
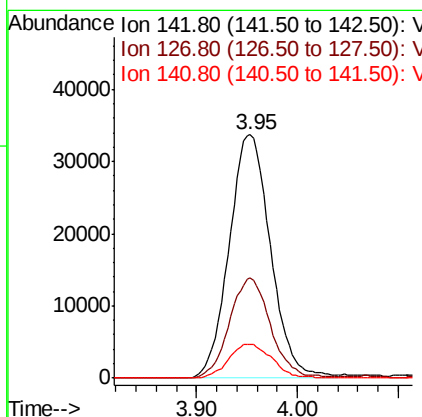
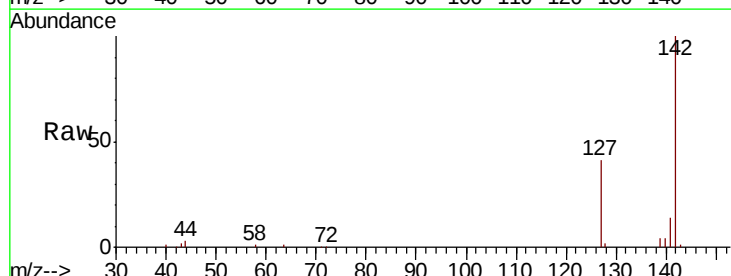
RT: 3.95 min Scan# 735

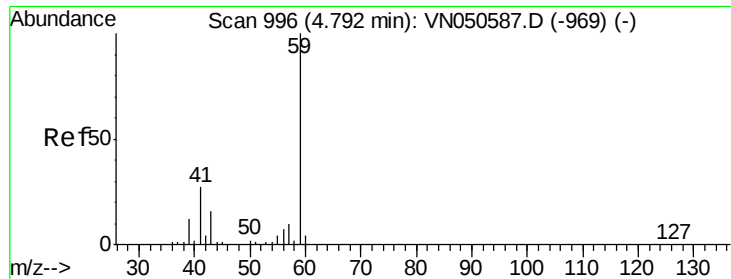
Delta R.T. 0.00 min

Lab File: VN050693.D

Acq: 16 Aug 2018 11:05

Tgt Ion:	142	Resp:	96097
Ion Ratio	Lower	Upper	
142	100		
127	40.6	32.6	49.0
141	14.4	11.5	17.3





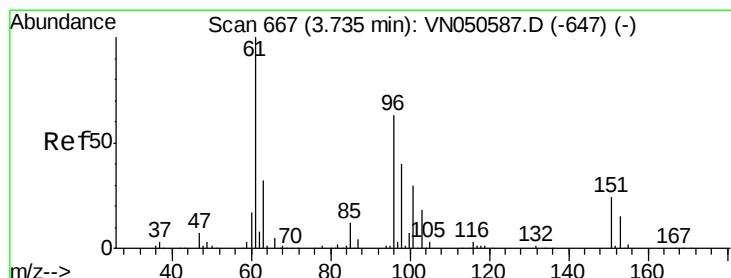
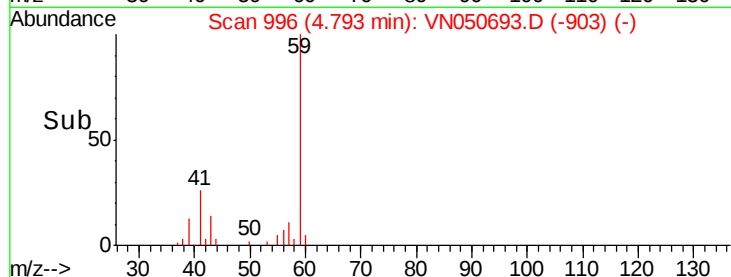
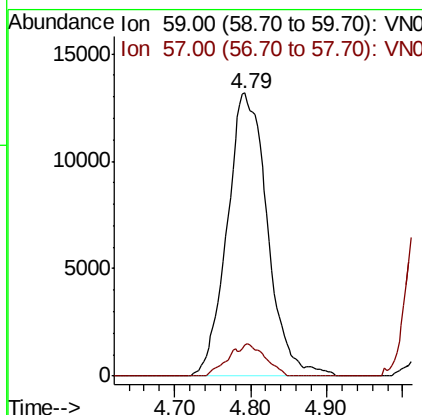
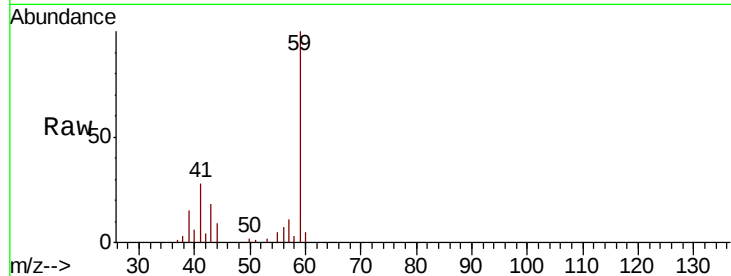
#11
Tert butyl alcohol
Concen: 108.46 ug/l
RT: 4.79 min Scan# 996
Delta R.T. 0.00 min
Lab File: VN050693.D
Acq: 16 Aug 2018 11:05

Instrument :
MSVOA_N
ClientSampleId :
VN0816WBSD01

Tot Ion: 59 Resp: 48605
Ion Ratio Lower Upper
59 100
57 6.5 8.4 12.6#

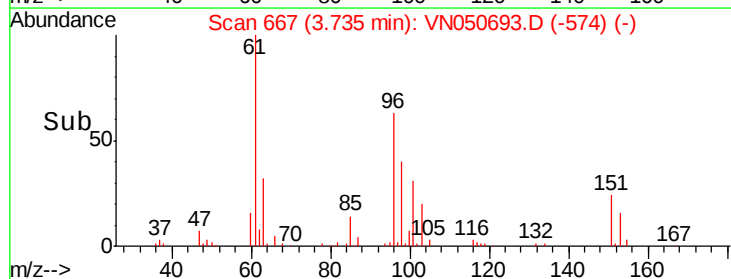
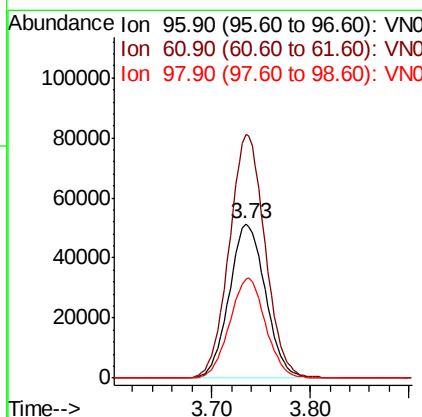
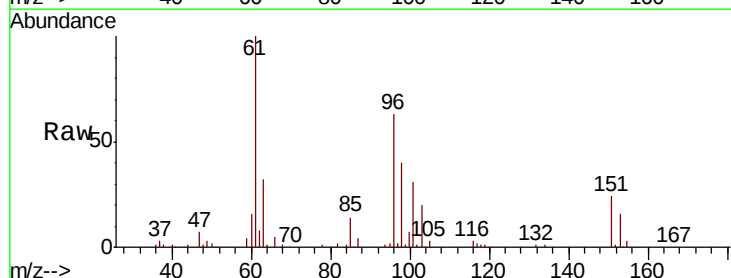
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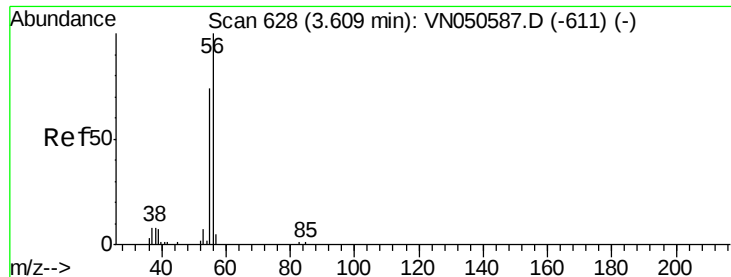
MMDadoda
8/17/2018 3:55:34 PM



#12
1,1-Dichloroethene
Concen: 18.61 ug/l
RT: 3.73 min Scan# 667
Delta R.T. 0.00 min
Lab File: VN050693.D
Acq: 16 Aug 2018 11:05

Tgt Ion: 96 Resp: 131471
Ion Ratio Lower Upper
96 100
61 157.8 126.9 190.3
98 63.9 51.1 76.7





#13

Acrolein

Concen: 68.25 ug/l

RT: 3.61 min Scan# 629

Delta R.T. 0.00 min

Lab File: VN050693.D

Acq: 16 Aug 2018 11:05

Instrument :

MSVOA_N

ClientSampleId :

VN0816WBSD01

Tot Ion: 56 Resp: 12899

Ion Ratio Lower Upper

56 100

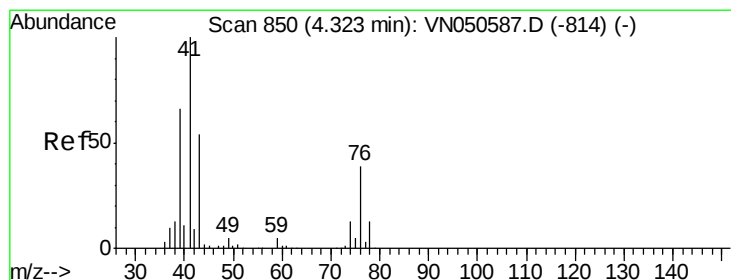
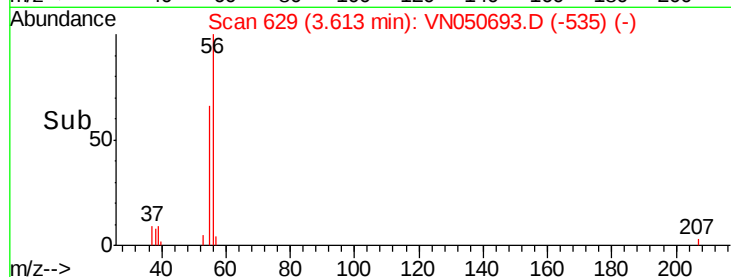
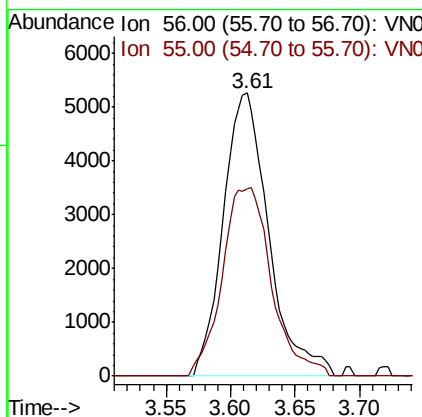
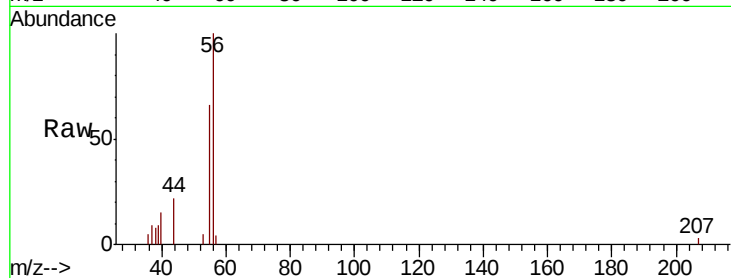
55 72.2 56.3 84.5

Manual Integrations

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MMDadoda

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#14

Allyl chloride

Concen: 19.15 ug/l

RT: 4.32 min Scan# 850

Delta R.T. 0.00 min

Lab File: VN050693.D

Acq: 16 Aug 2018 11:05

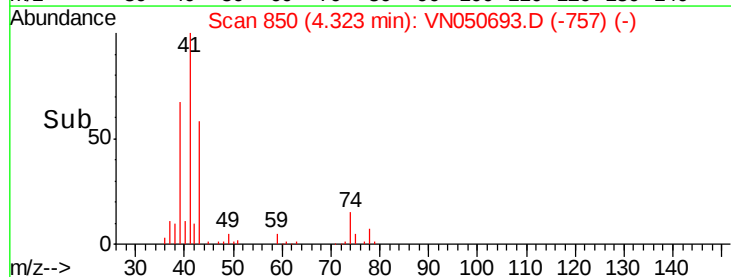
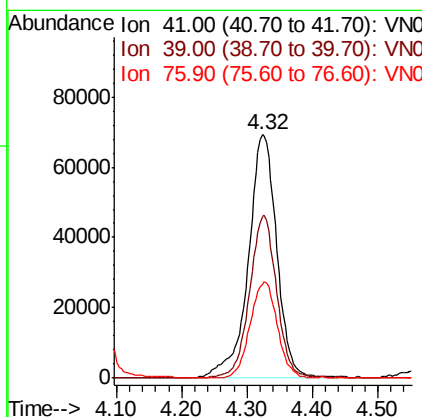
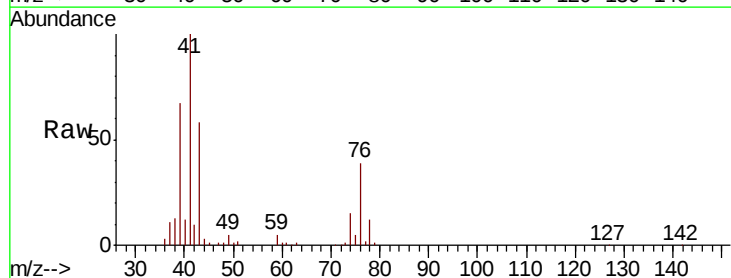
Tgt Ion: 41 Resp: 210475

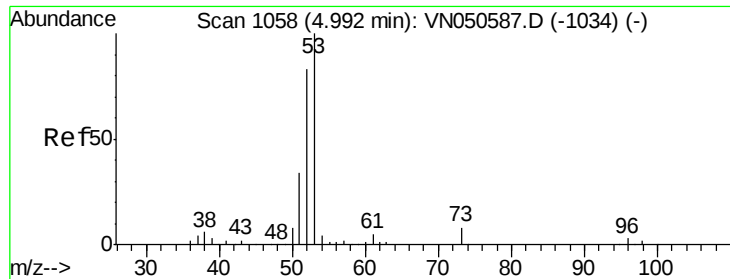
Ion Ratio Lower Upper

41 100

39 63.7 51.4 77.0

76 37.0 29.4 44.0





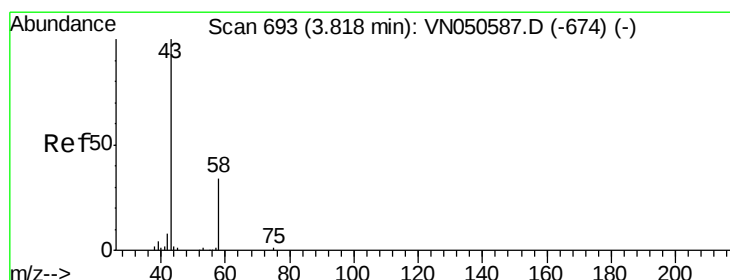
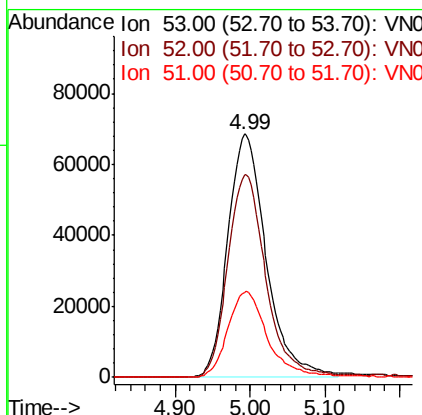
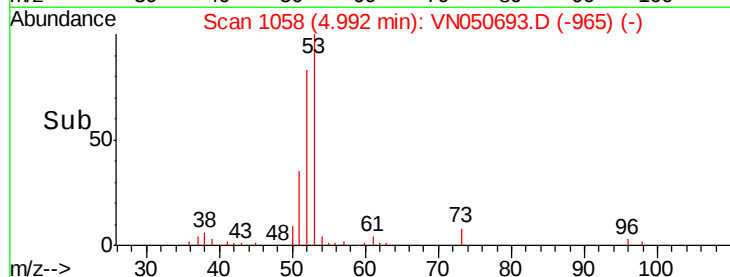
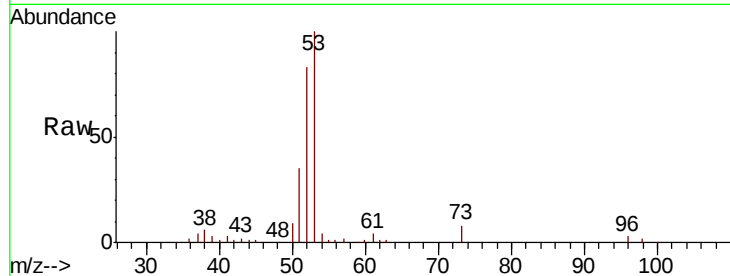
#15
 Acrylonitrile
 Concen: 99.49 ug/l
 RT: 4.99 min Scan# 1058
 Delta R.T. 0.00 min
 Lab File: VN050693.D
 Acq: 16 Aug 2018 11:05

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0816WBSD01

Tot Ion	Ratio	Lower	Upper
53	100		
52	82.5	66.2	99.2
51	36.6	28.6	43.0

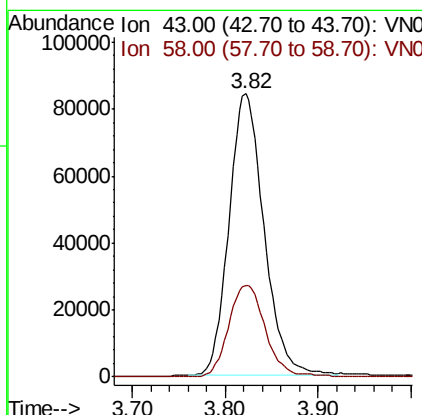
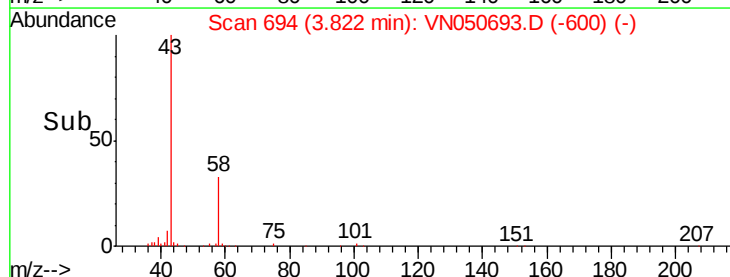
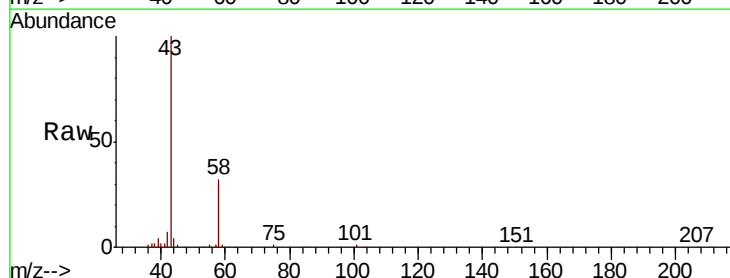
Manual Integrations
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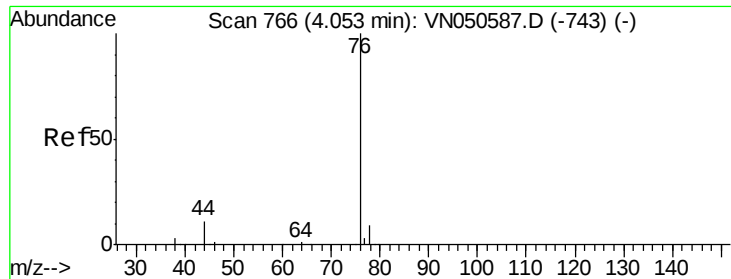
MMDadoda
 8/17/2018 3:55:34 PM



#16
 Acetone
 Concen: 106.37 ug/l
 RT: 3.82 min Scan# 694
 Delta R.T. 0.00 min
 Lab File: VN050693.D
 Acq: 16 Aug 2018 11:05

Tgt Ion	Ratio	Lower	Upper
43	100		
58	32.7	27.1	40.7





#17

Carbon Disulfide

Concen: 18.06 ug/l

RT: 4.05 min Scan# 766

Delta R.T. 0.00 min

Lab File: VN050693.D

Acq: 16 Aug 2018 11:05

Instrument :

MSVOA_N

ClientSampleId :

VN0816WBSD01

Tot Ion: 76 Resp: 401631

Ion Ratio Lower Upper

76 100

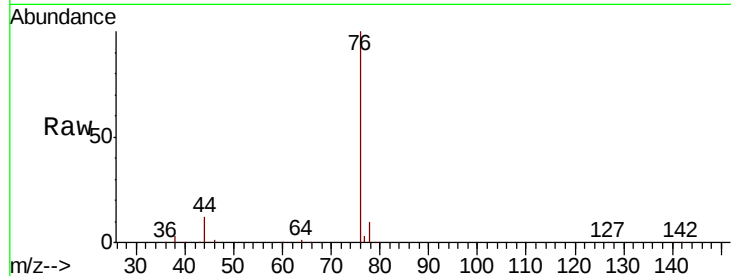
78 9.5 7.3 10.9

Manual Integrations

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Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

150000

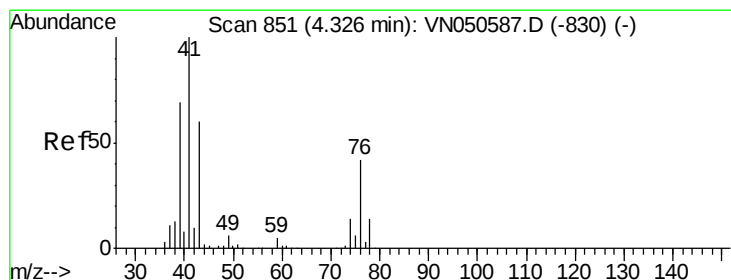
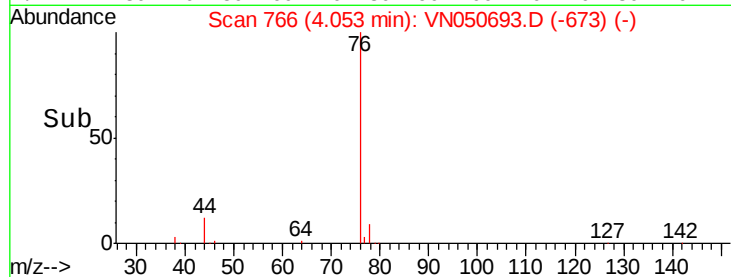
100000

50000

0

3.90 4.00 4.10 4.20

Time-->



#18

Methyl Acetate

Concen: 21.35 ug/l

RT: 4.33 min Scan# 852

Delta R.T. 0.00 min

Lab File: VN050693.D

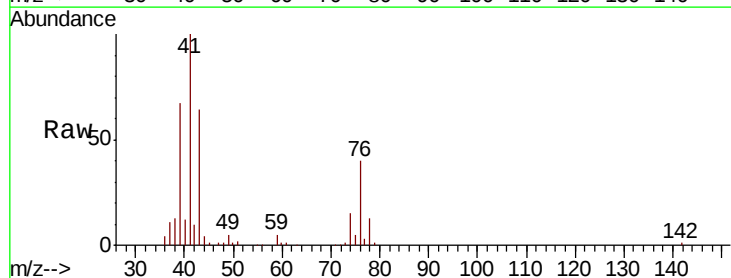
Acq: 16 Aug 2018 11:05

Tgt Ion: 43 Resp: 126344

Ion Ratio Lower Upper

43 100

74 24.5 19.7 29.5



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

50000

40000

30000

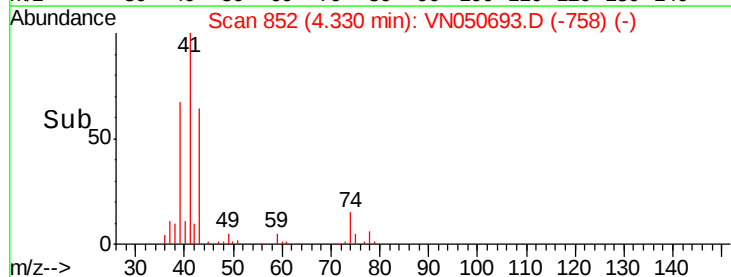
20000

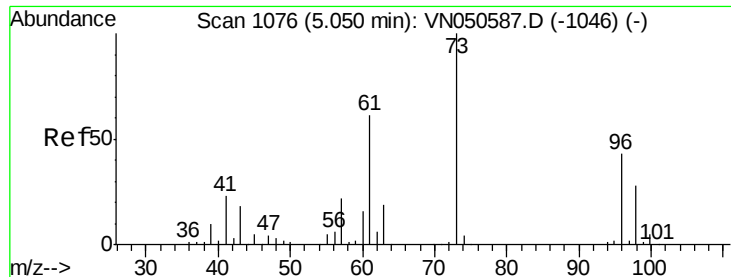
10000

0

4.20 4.30 4.40

Time-->





#19

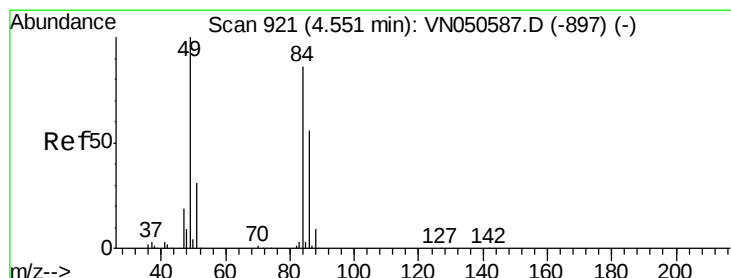
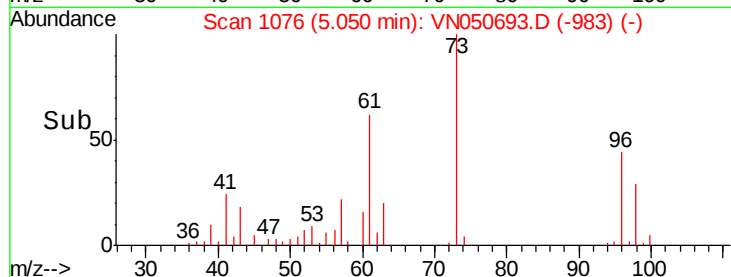
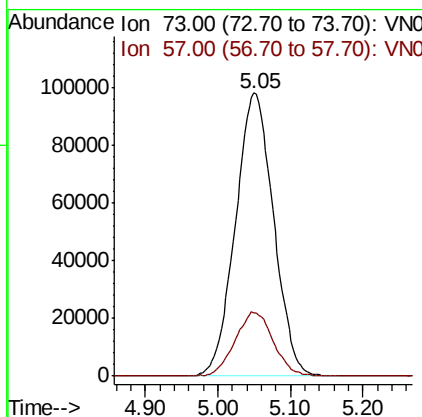
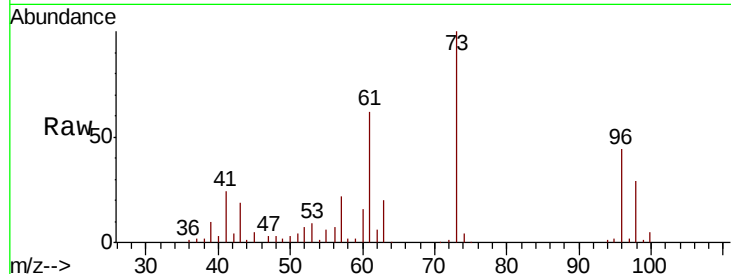
Methyl tert-butyl Ether
 Concen: 19.96 ug/l
 RT: 5.05 min Scan# 1076
 Delta R.T. 0.00 min
 Lab File: VN050693.D
 Acq: 16 Aug 2018 11:05

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0816WBSD01

Tot Ion	Ratio	Lower	Upper
73	100		
57	22.5	17.9	26.9

Manual Integrations
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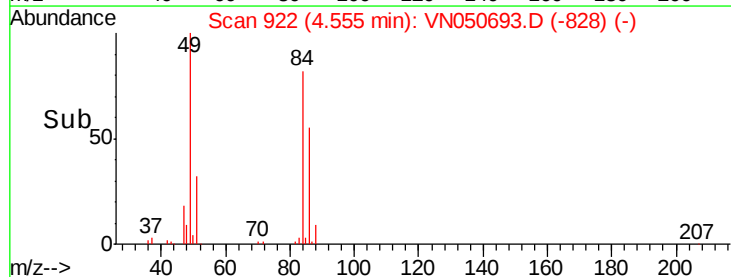
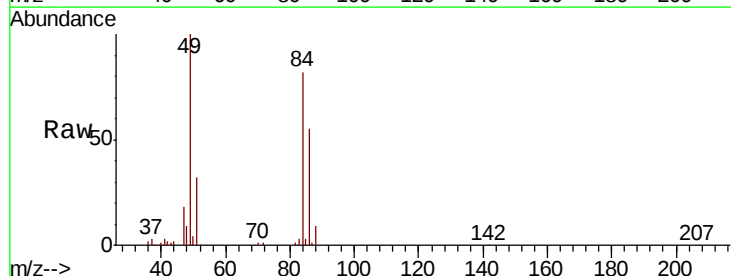
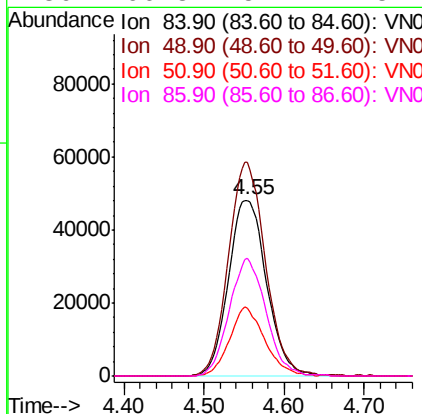
MMDadoda
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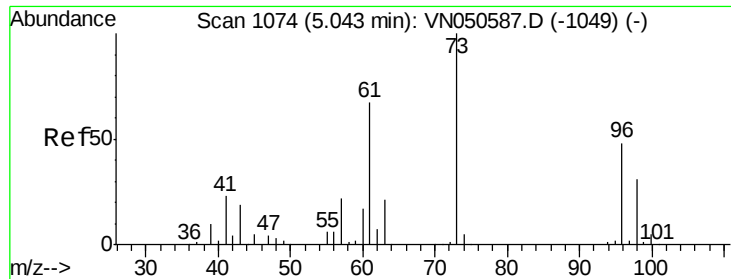


#20

Methylene Chloride
 Concen: 19.25 ug/l
 RT: 4.55 min Scan# 922
 Delta R.T. 0.00 min
 Lab File: VN050693.D
 Acq: 16 Aug 2018 11:05

Tgt Ion	Ratio	Lower	Upper
84	100		
49	121.2	92.6	138.8
51	38.7	28.6	43.0
86	66.8	52.2	78.2





#21

trans-1,2-Dichloroethene

Concen: 19.02 ug/l

RT: 5.04 min Scan# 1074

Delta R.T. 0.00 min

Lab File: VN050693.D

Acq: 16 Aug 2018 11:05

Instrument :

MSVOA_N

ClientSampleId :

VN0816WBSD01

Tot Ion: 96 Resp: 145682

Ion Ratio Lower Upper

96 100

61 138.5 111.2 166.8

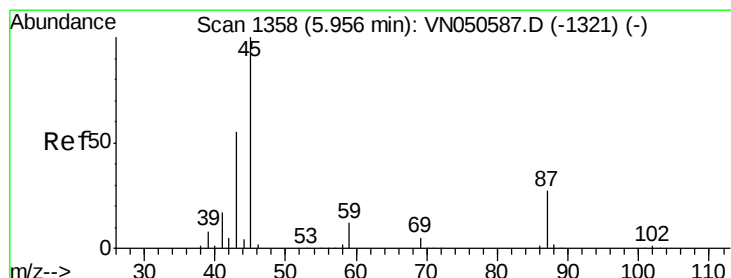
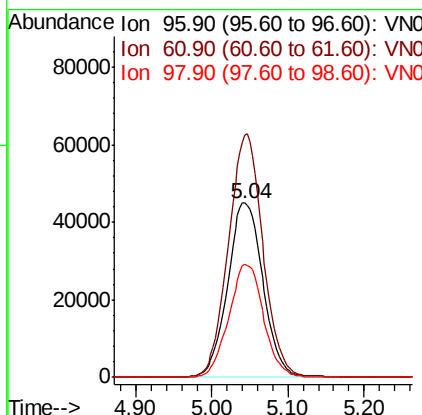
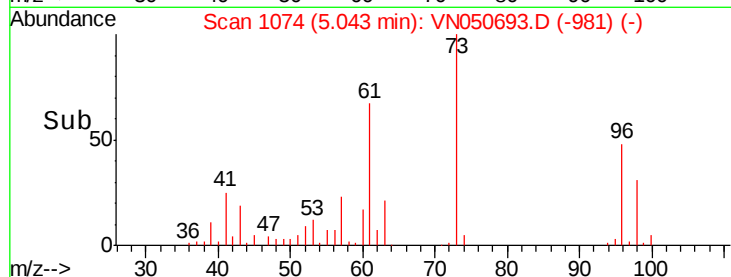
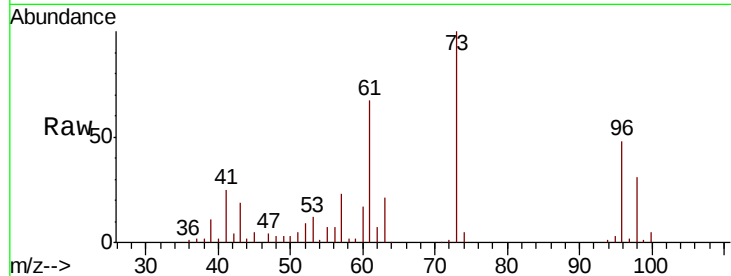
98 64.8 51.6 77.4

Manual Integrations

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#22

Diisopropyl ether

Concen: 20.18 ug/l

RT: 5.96 min Scan# 1358

Delta R.T. 0.00 min

Lab File: VN050693.D

Acq: 16 Aug 2018 11:05

Tgt Ion: 45 Resp: 454784

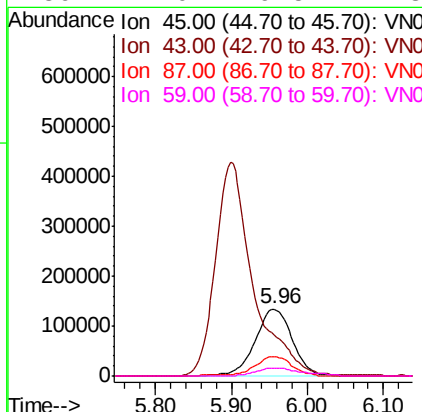
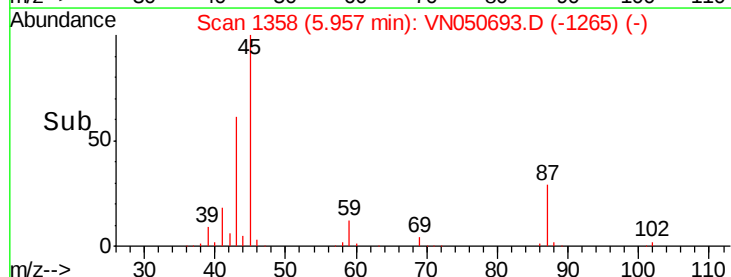
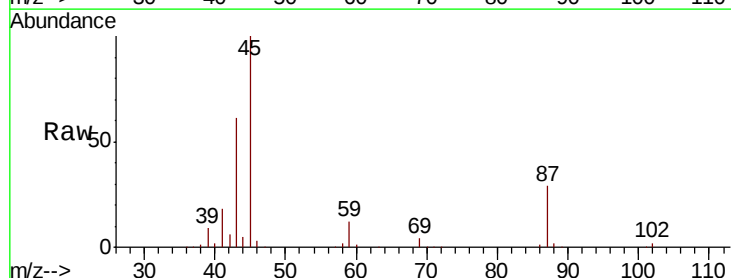
Ion Ratio Lower Upper

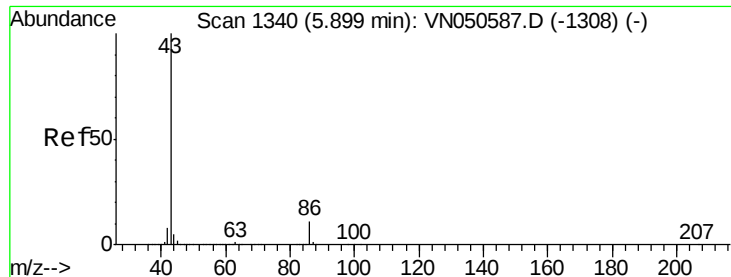
45 100

43 59.0 44.5 66.7

87 29.2 22.2 33.2

59 12.0 9.5 14.3





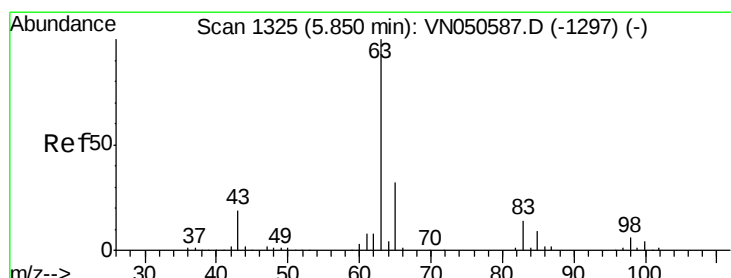
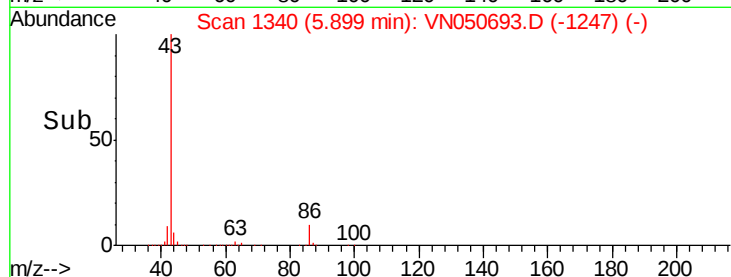
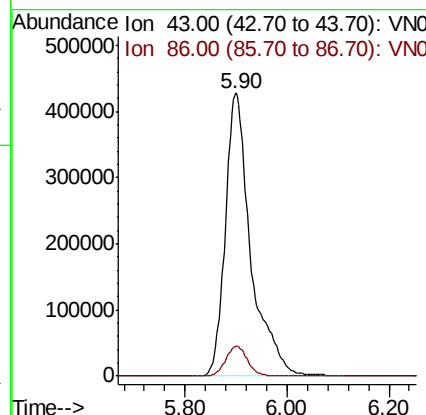
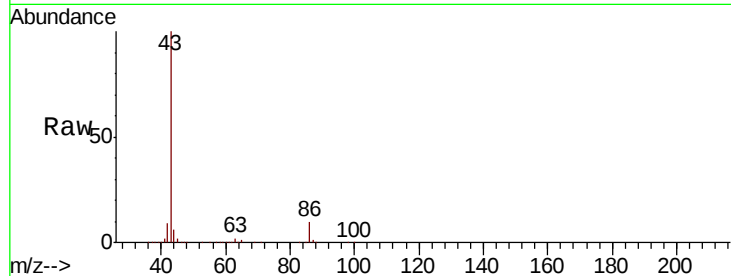
#23
 Vinyl Acetate
 Concen: 100.69 ug/l
 RT: 5.90 min Scan# 1340
 Delta R.T. 0.00 min
 Lab File: VN050693.D
 Acq: 16 Aug 2018 11:05

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0816WBSD01

Tot Ion: 43 Resp: 1484167
 Ion Ratio Lower Upper
 43 100
 86 10.5 8.4 12.6

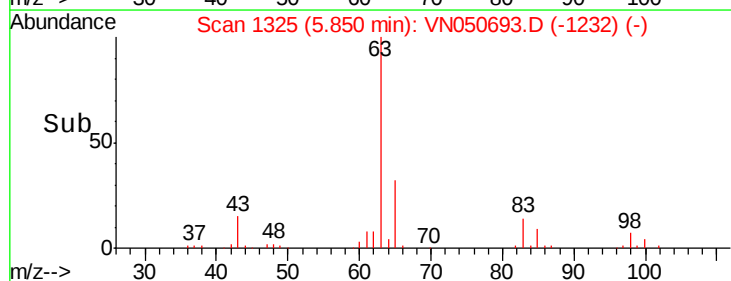
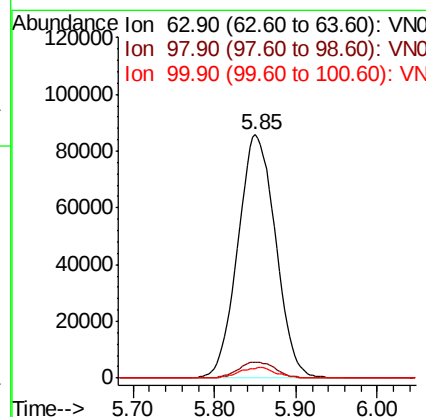
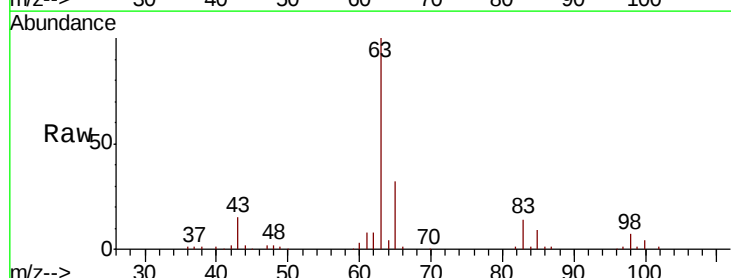
Manual Integrations
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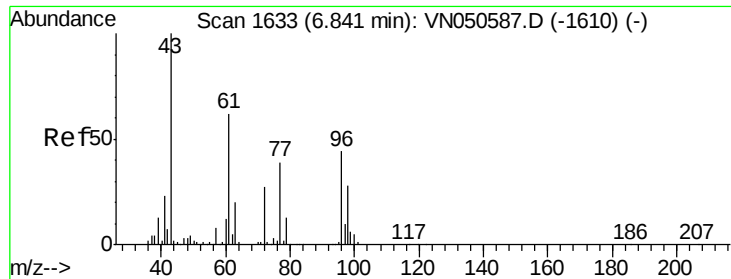
MMDadoda
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#24
 1,1-Dichloroethane
 Concen: 18.88 ug/l
 RT: 5.85 min Scan# 1325
 Delta R.T. 0.00 min
 Lab File: VN050693.D
 Acq: 16 Aug 2018 11:05

Tgt Ion: 63 Resp: 275240
 Ion Ratio Lower Upper
 63 100
 98 6.6 3.2 9.6
 100 4.1 2.1 6.5





#25

2-Butanone

Concen: 104.02 ug/l

RT: 6.84 min Scan# 1633

Delta R.T. 0.00 min

Lab File: VN050693.D

Acq: 16 Aug 2018 11:05

Instrument :

MSVOA_N

ClientSampled :

VN0816WBSD01

Tot Ion: 43 Resp: 350058

Ion Ratio Lower Upper

43 100

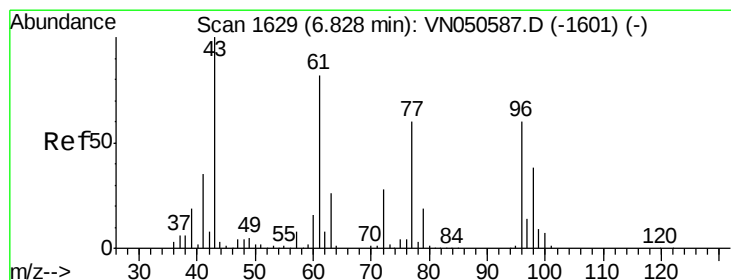
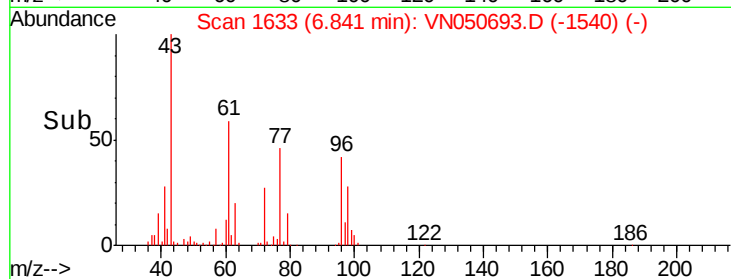
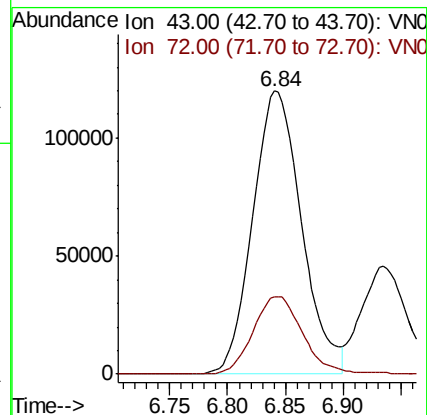
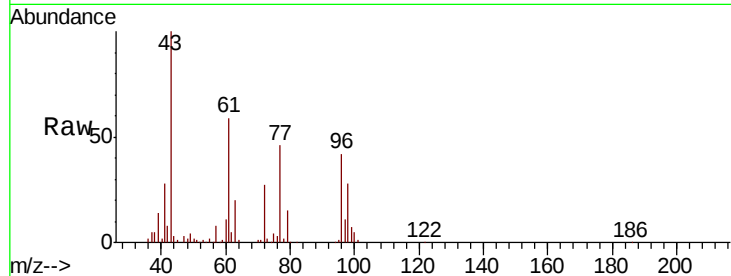
72 27.3 21.8 32.6

Manual Integrations

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MMDadoda

8/17/2018 3:55:34 PM



#26

2,2-Dichloropropane

Concen: 22.28 ug/l

RT: 6.82 min Scan# 1628

Delta R.T. -0.00 min

Lab File: VN050693.D

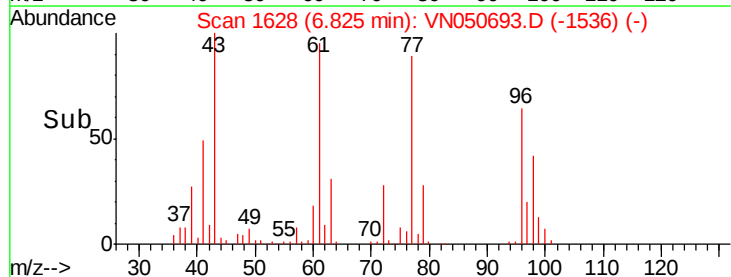
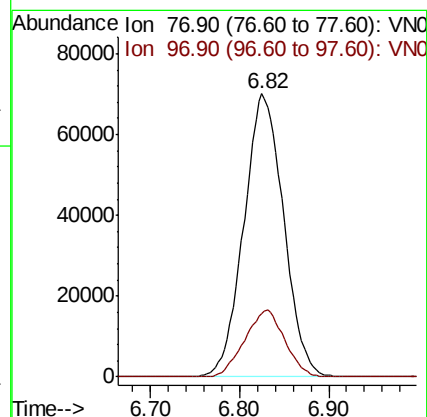
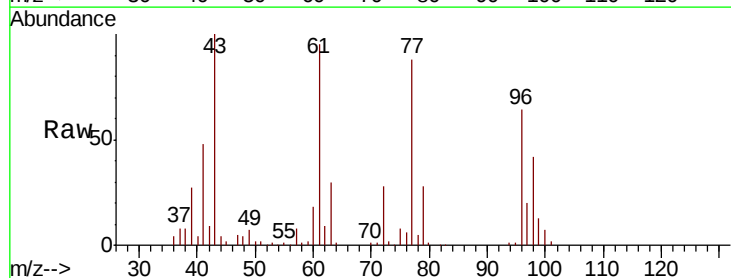
Acq: 16 Aug 2018 11:05

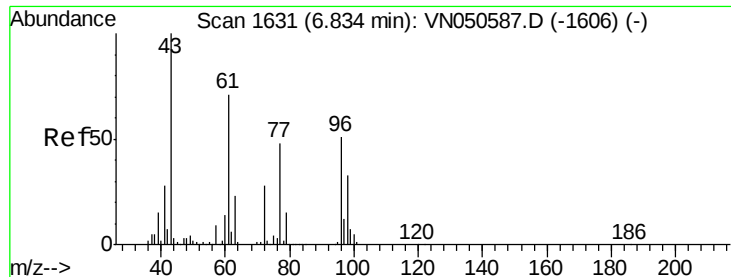
Tgt Ion: 77 Resp: 217421

Ion Ratio Lower Upper

77 100

97 23.8 12.2 36.4





#27

cis-1,2-Dichloroethene

Concen: 19.26 ug/l

RT: 6.83 min Scan# 1630

Delta R.T. -0.00 min

Lab File: VN050693.D

Acq: 16 Aug 2018 11:05

Instrument :

MSVOA_N

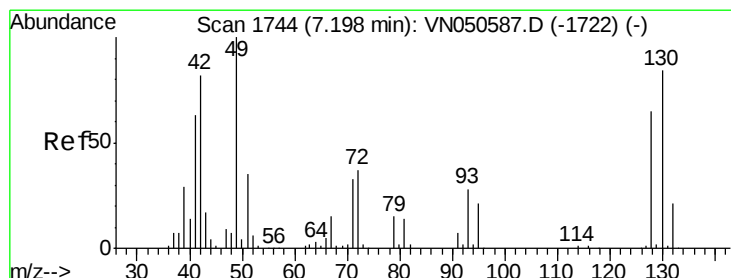
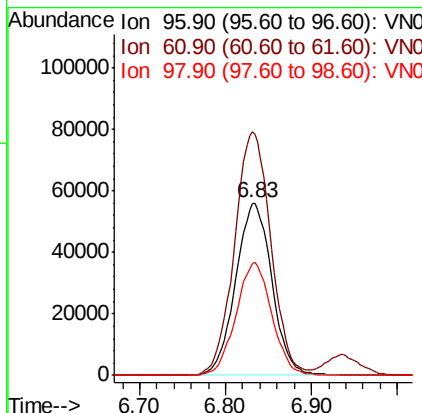
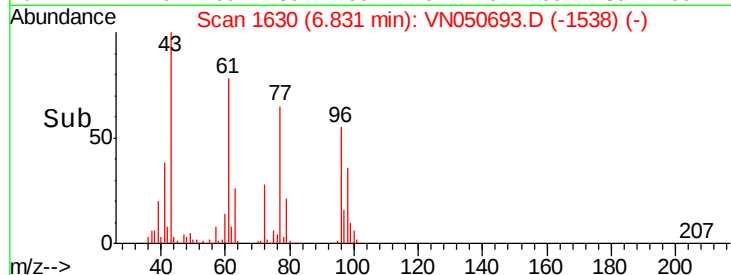
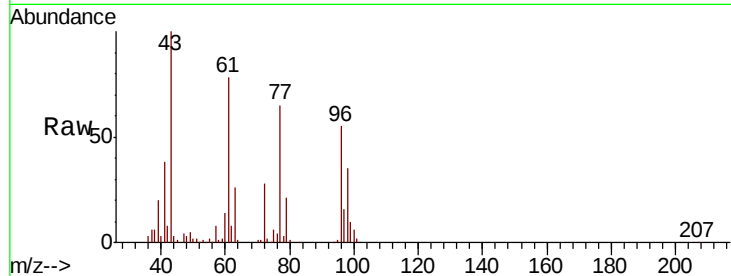
ClientSampleId :

VN0816WBSD01

Tot Ion:	96	Resp:	164290
Ion Ratio	Lower	Upper	
96	100		
61	141.6	0.0	278.2
98	64.5	0.0	128.8

Manual Integrations
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#28

Bromochloromethane

Concen: 19.76 ug/l

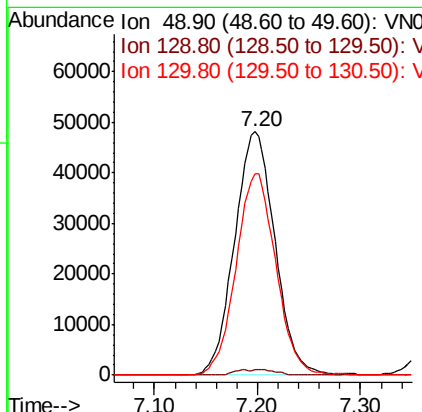
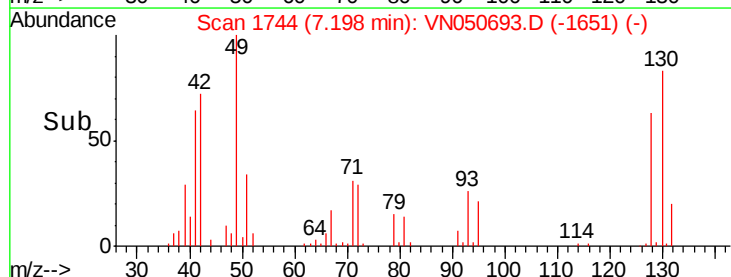
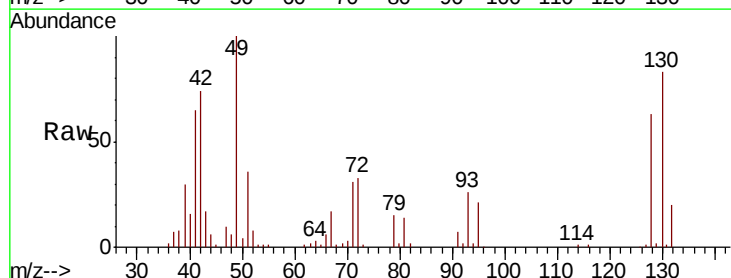
RT: 7.20 min Scan# 1744

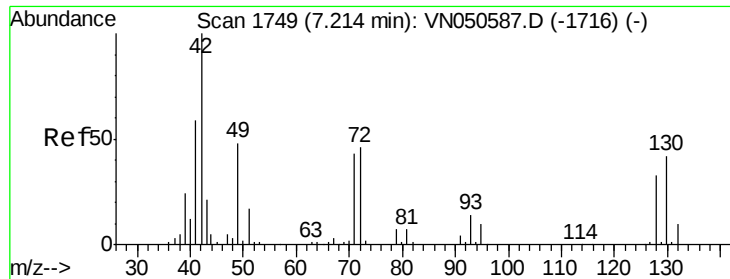
Delta R.T. 0.00 min

Lab File: VN050693.D

Acq: 16 Aug 2018 11:05

Tgt Ion:	49	Resp:	131103
Ion Ratio	Lower	Upper	
49	100		
129	0.9	0.0	4.2
130	81.2	66.8	100.2





#29

Tetrahydrofuran

Concen: 103.85 ug/l

RT: 7.22 min Scan# 1750

Delta R.T. 0.00 min

Lab File: VN050693.D

Acq: 16 Aug 2018 11:05

Instrument :

MSVOA_N

ClientSampleId :

VN0816WBSD01

Tot Ion: 42 Resp: 182466

Ion Ratio Lower Upper

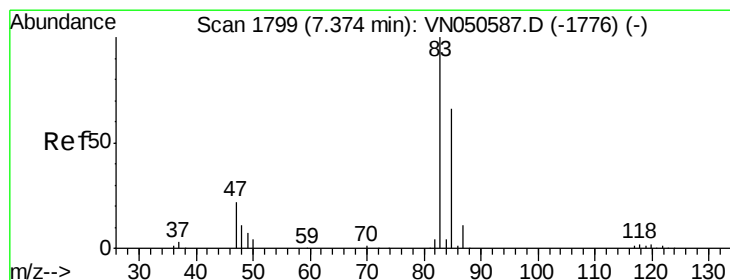
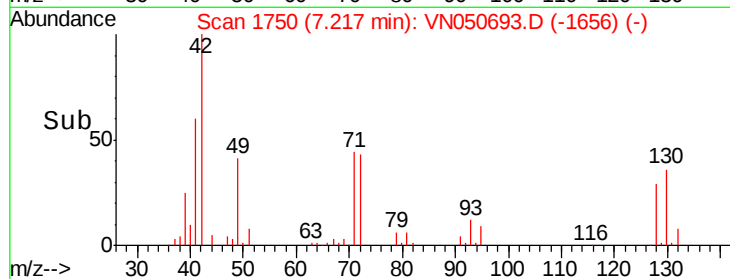
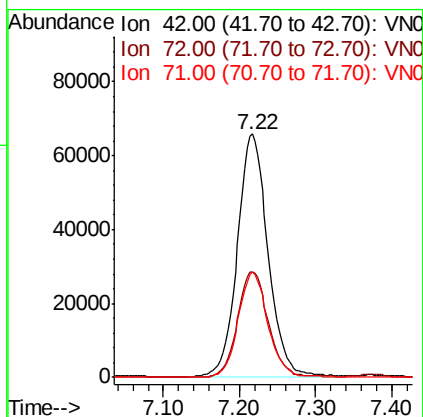
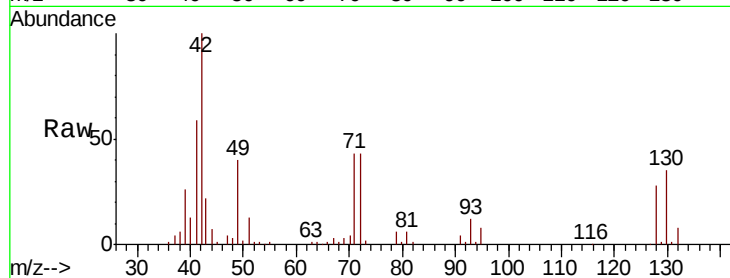
42 100

72 44.2 35.8 53.6

71 42.4 33.4 50.0

Manual Integrations
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#30

Chloroform

Concen: 18.76 ug/l

RT: 7.37 min Scan# 1799

Delta R.T. 0.00 min

Lab File: VN050693.D

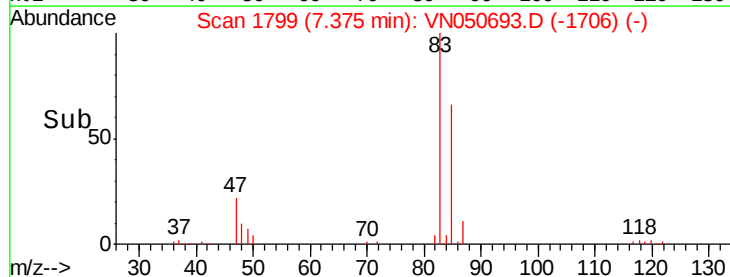
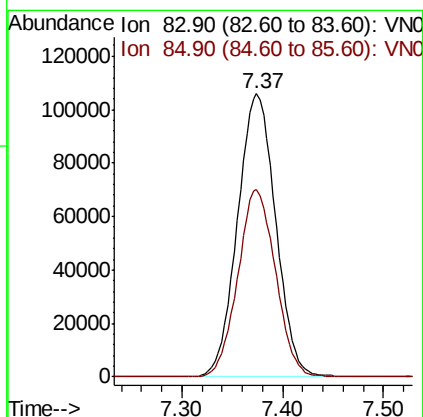
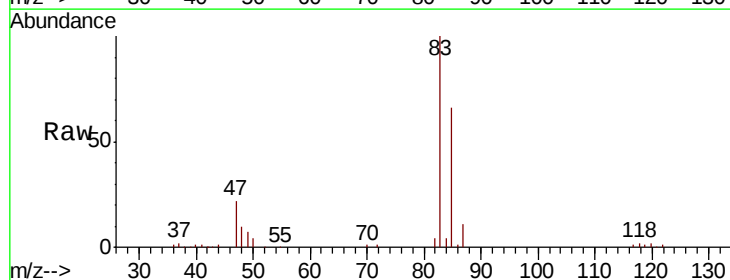
Acq: 16 Aug 2018 11:05

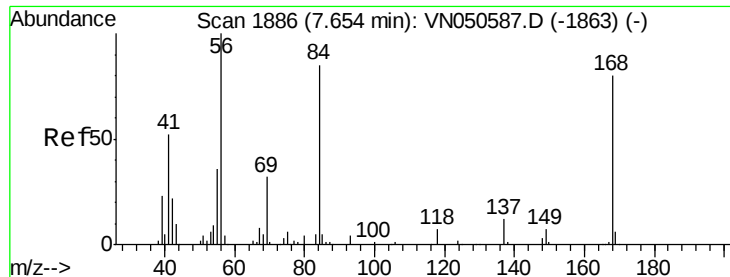
Tgt Ion: 83 Resp: 277137

Ion Ratio Lower Upper

83 100

85 66.3 52.5 78.7





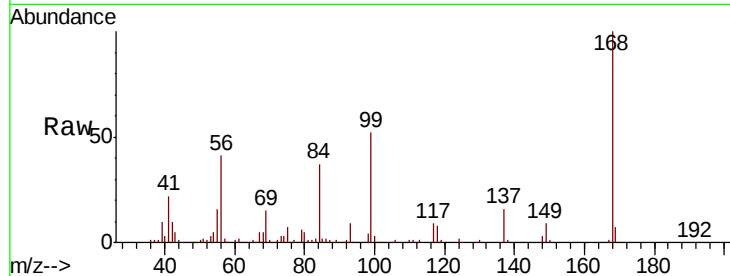
#31
Cyclohexane
Concen: 19.26 ug/l
RT: 7.66 min Scan# 1887
Delta R.T. 0.00 min
Lab File: VN050693.D
Acq: 16 Aug 2018 11:05

Instrument :
MSVOA_N
ClientSampleId :
VN0816WBSD01

Tot Ion	Ratio	Lower	Upper
56	100		
69	37.6	25.8	38.6
84	89.0	67.8	101.6

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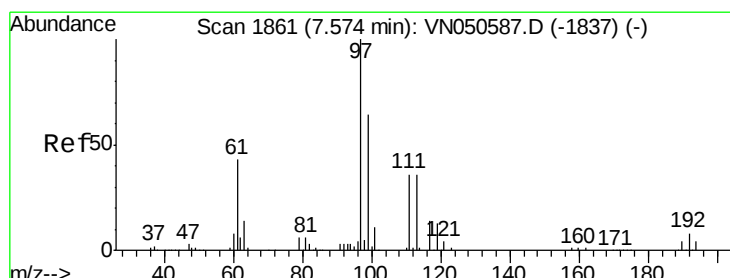
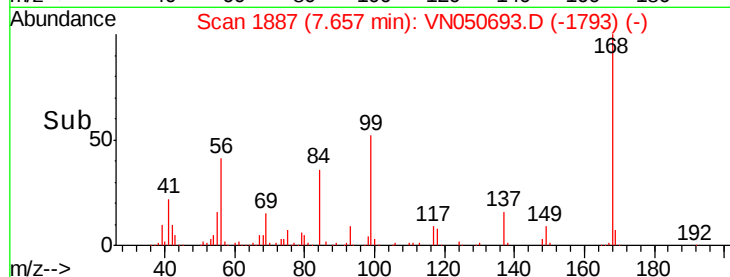
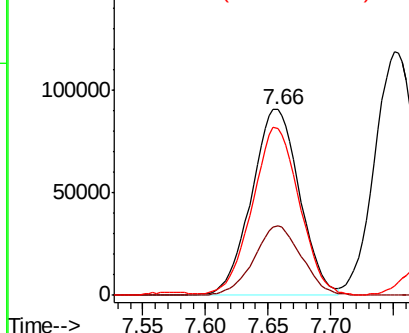


Abundance

Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#32
1,1,1-Trichloroethane
Concen: 19.02 ug/l
RT: 7.57 min Scan# 1860
Delta R.T. -0.00 min
Lab File: VN050693.D
Acq: 16 Aug 2018 11:05

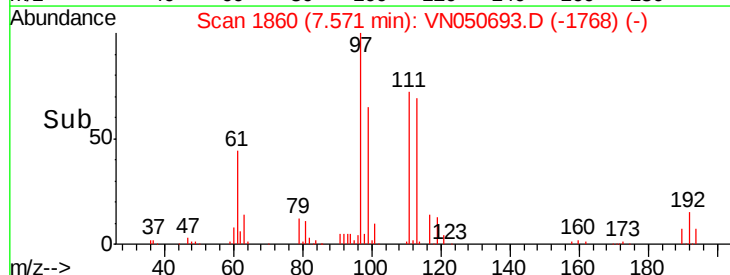
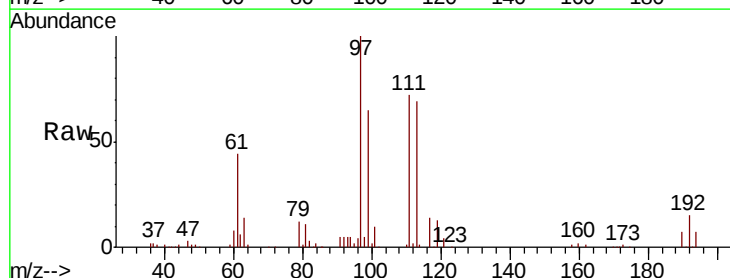
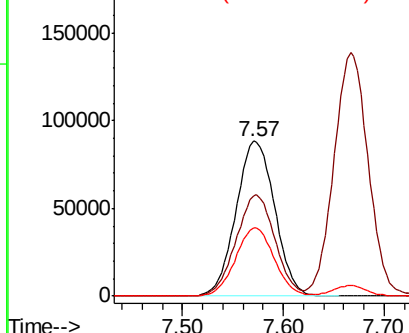
Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.3	51.1	76.7
61	44.0	34.8	52.2

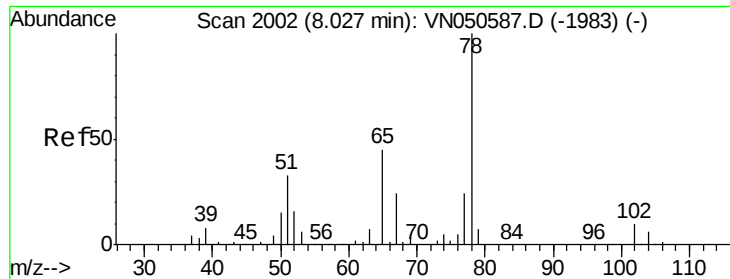
Abundance

Ion 96.90 (96.60 to 97.60): VN0

Ion 98.90 (98.60 to 99.60): VN0

Ion 60.90 (60.60 to 61.60): VN0





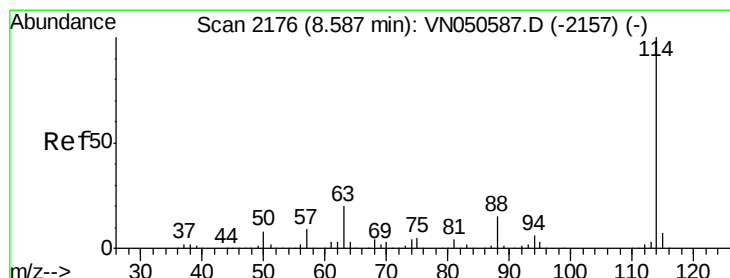
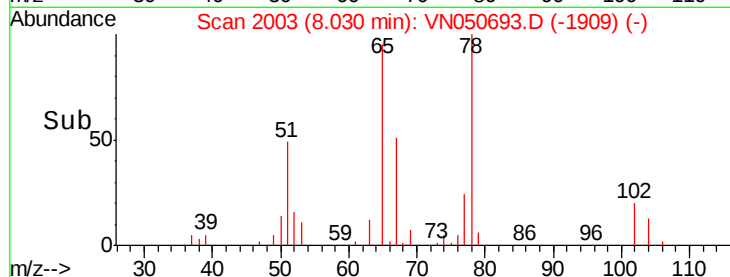
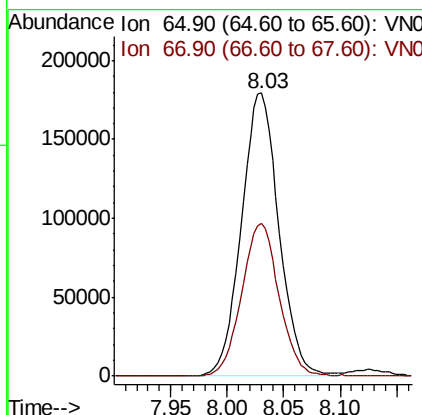
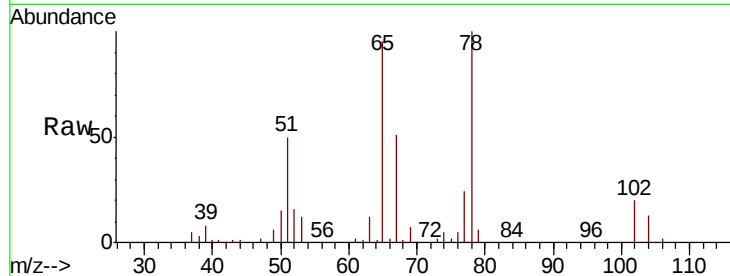
#33
 1,2-Dichloroethane-d4
 Concen: 50.30 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN050693.D
 Acq: 16 Aug 2018 11:05

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0816WBSD01

Tot Ion: 65 Resp: 412879
 Ion Ratio Lower Upper
 65 100
 67 53.7 0.0 109.8

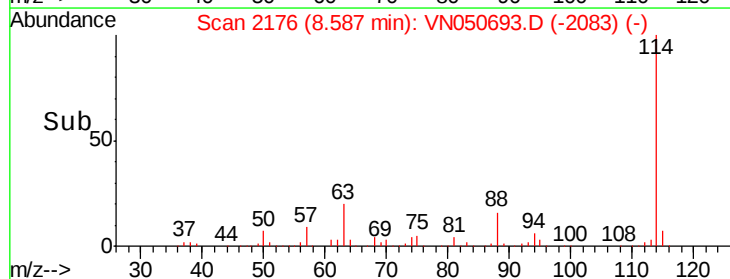
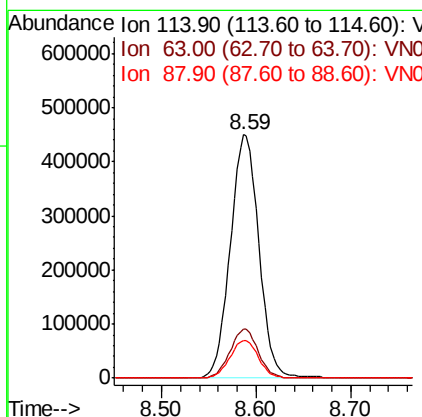
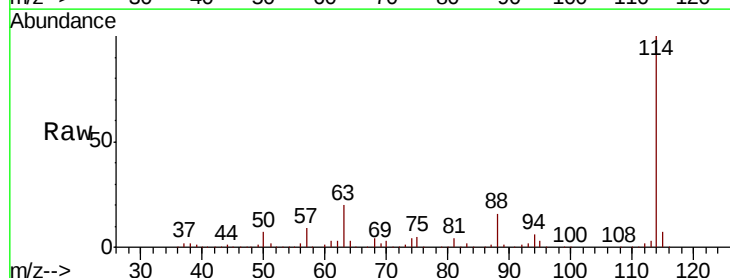
Manual Integrations
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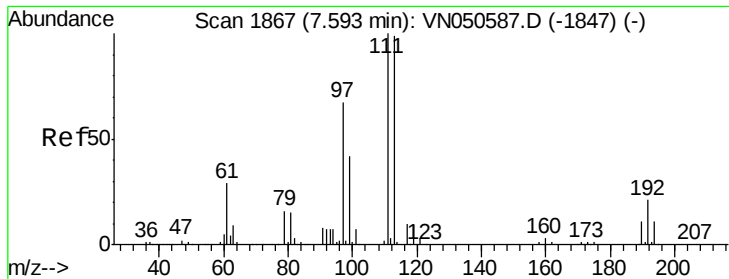
MMDadoda
 8/17/2018 3:55:34 PM



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. 0.00 min
 Lab File: VN050693.D
 Acq: 16 Aug 2018 11:05

Tgt Ion: 114 Resp: 944303
 Ion Ratio Lower Upper
 114 100
 63 20.2 0.0 40.0
 88 15.6 0.0 30.8





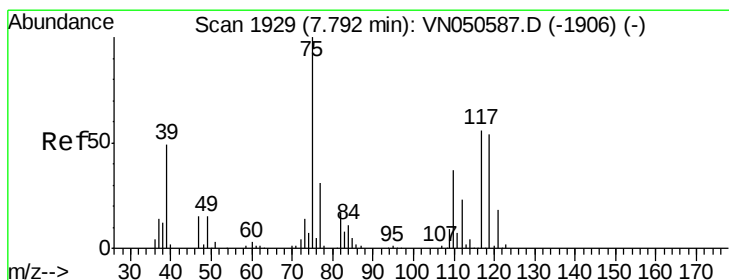
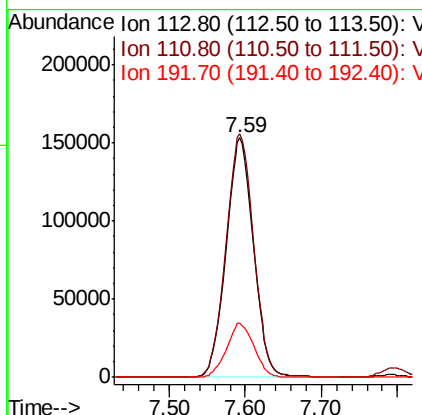
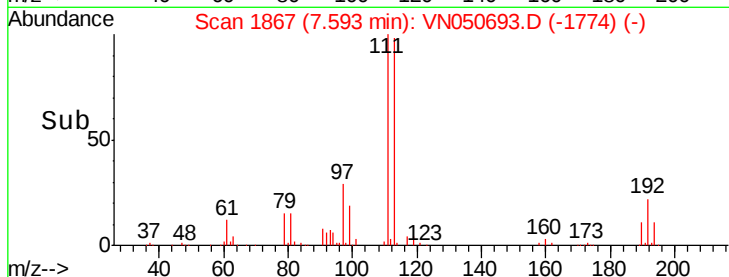
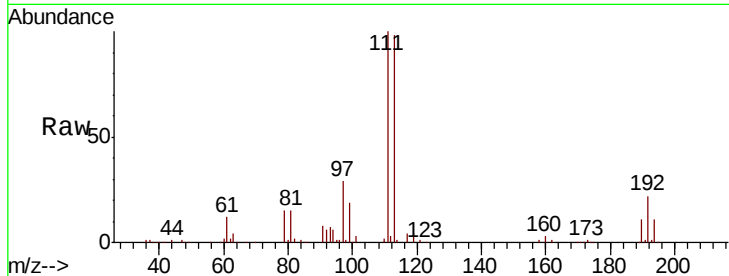
#35
Dibromofluoromethane
Concen: 50.85 ug/l
RT: 7.59 min Scan# 1867
Delta R.T. 0.00 min
Lab File: VN050693.D
Acq: 16 Aug 2018 11:05

Instrument :
MSVOA_N
ClientSampleId :
VN0816WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	383377		
111	103.0	81.0	121.6	
192	22.7	17.6	26.4	

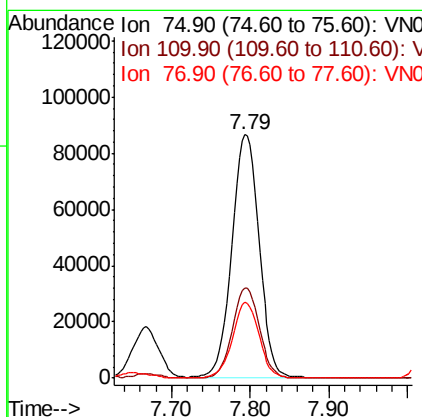
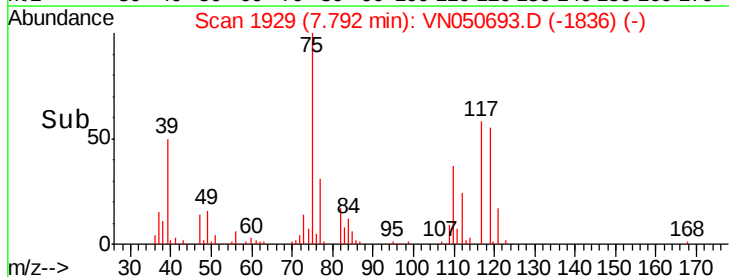
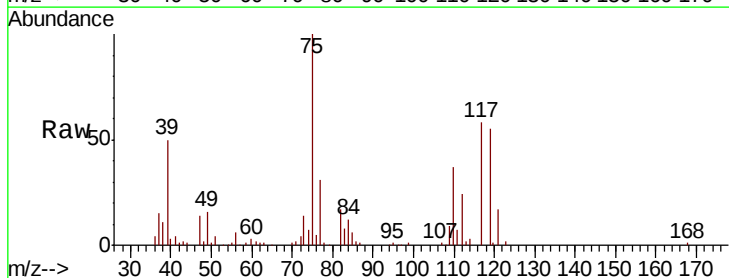
Manual Integrations
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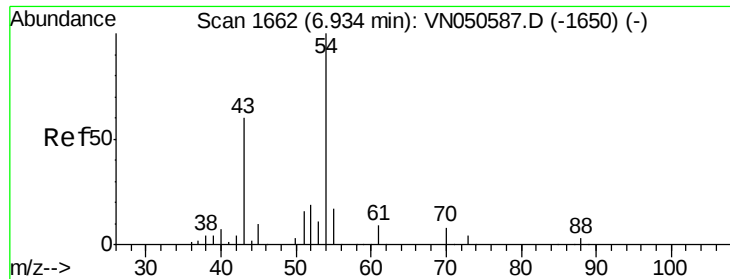
MMDadoda
8/17/2018 3:55:34 PM



#36
1,1-Dichloropropene
Concen: 20.01 ug/l
RT: 7.79 min Scan# 1929
Delta R.T. 0.00 min
Lab File: VN050693.D
Acq: 16 Aug 2018 11:05

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	210377		
110	36.5	18.3	54.9	
77	30.3	25.0	37.4	





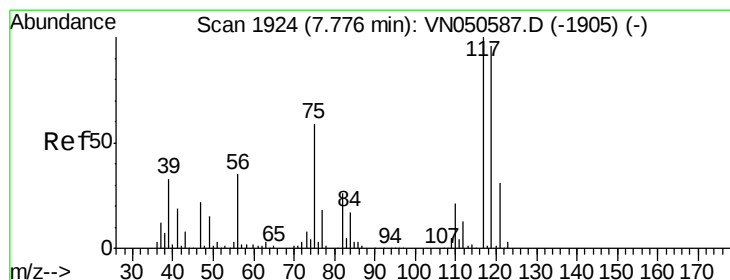
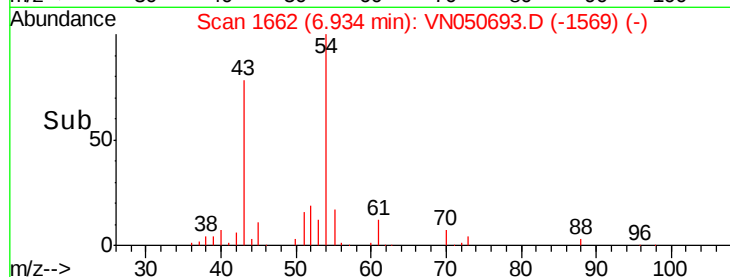
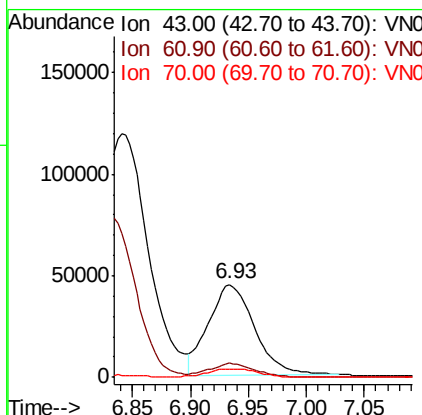
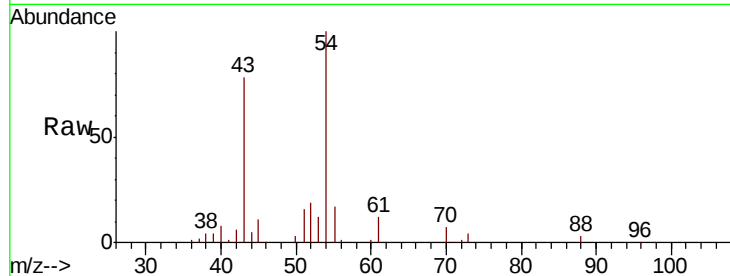
#37
Ethyl Acetate
Concen: 21.12 ug/l
RT: 6.93 min Scan# 1662
Delta R.T. 0.00 min
Lab File: VN050693.D
Acq: 16 Aug 2018 11:05

Instrument :
MSVOA_N
ClientSampleId :
VN0816WBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.2	12.0	18.0
70	4.6	8.5	12.7

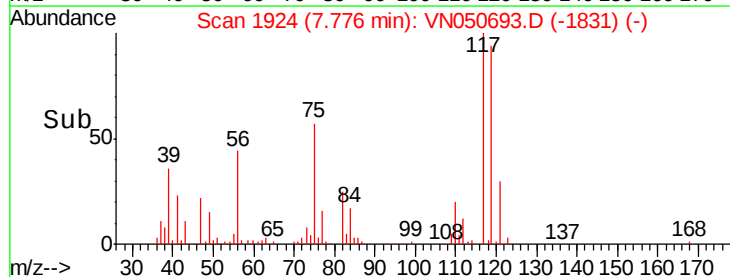
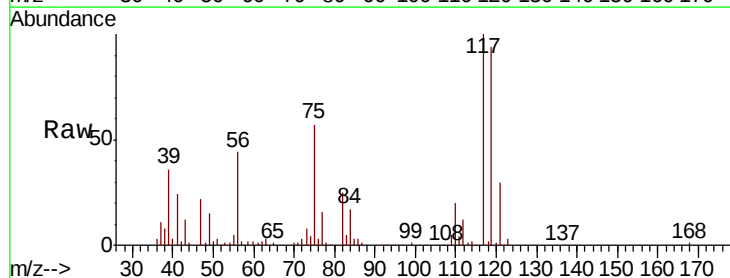
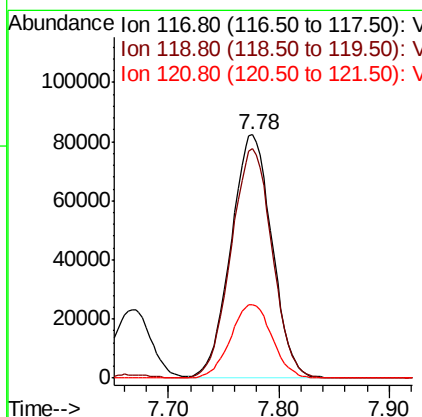
Manual Integrations
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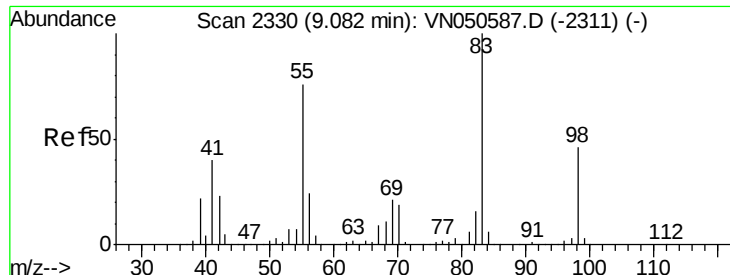
MMDadoda
8/17/2018 3:55:34 PM



#38
Carbon Tetrachloride
Concen: 19.44 ug/l
RT: 7.78 min Scan# 1924
Delta R.T. 0.00 min
Lab File: VN050693.D
Acq: 16 Aug 2018 11:05

Tgt Ion	Ratio	Lower	Upper
117	100		
119	94.4	76.6	115.0
121	30.4	25.0	37.6





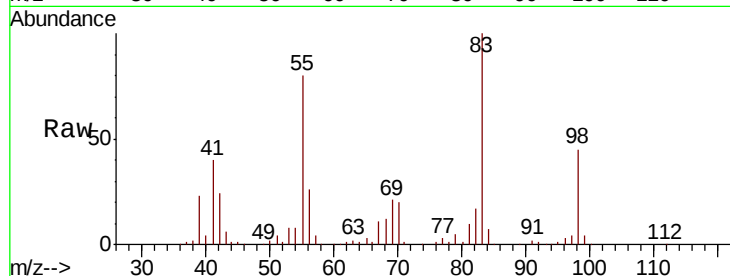
#39
Methvlcvclohexane
Concen: 19.65 ug/l
RT: 9.08 min Scan# 2330
Delta R.T. 0.00 min
Lab File: VN050693.D
Acq: 16 Aug 2018 11:05

Instrument :
MSVOA_N
ClientSampleId :
VN0816WBSD01

Tot Ion	Ratio	Lower	Upper
83	100		
55	79.9	60.6	91.0
98	44.9	37.0	55.4

Manual Integrations
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8/17/2018 3:55:34 PM

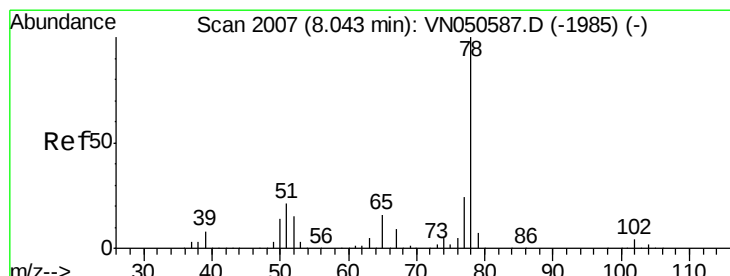
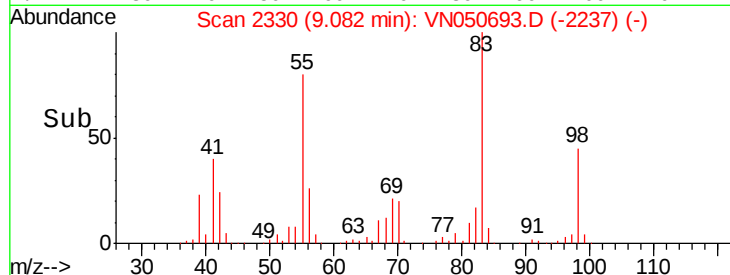
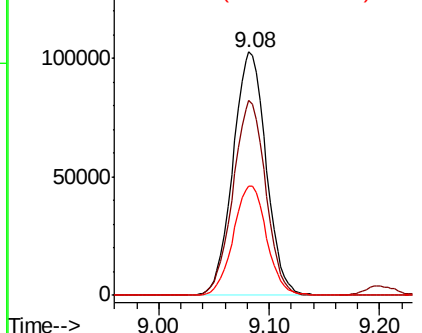


Abundance

Ion 83.00 (82.70 to 83.70): VN0

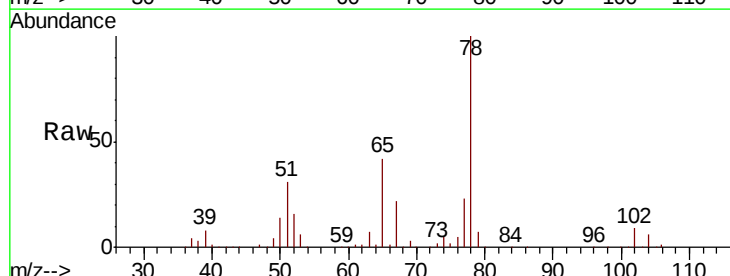
Ion 55.00 (54.70 to 55.70): VN0

Ion 98.00 (97.70 to 98.70): VN0



#40
Benzene
Concen: 19.98 ug/l
RT: 8.04 min Scan# 2007
Delta R.T. 0.00 min
Lab File: VN050693.D
Acq: 16 Aug 2018 11:05

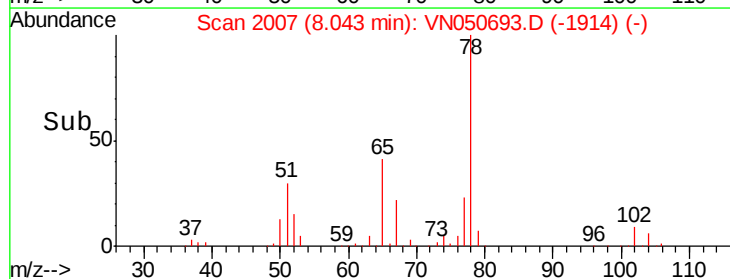
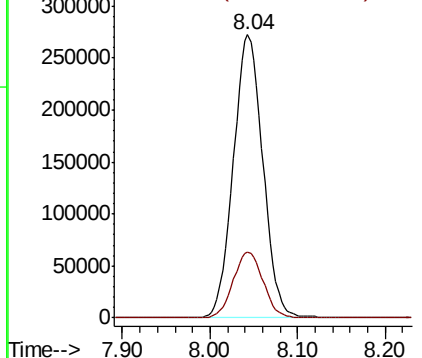
Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.2	19.0	28.6

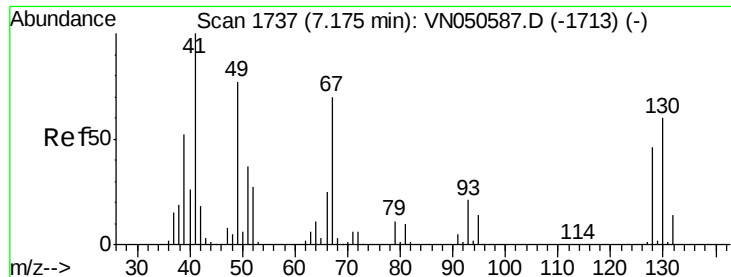


Abundance

Ion 78.00 (77.70 to 78.70): VN0

Ion 77.00 (76.70 to 77.70): VN0





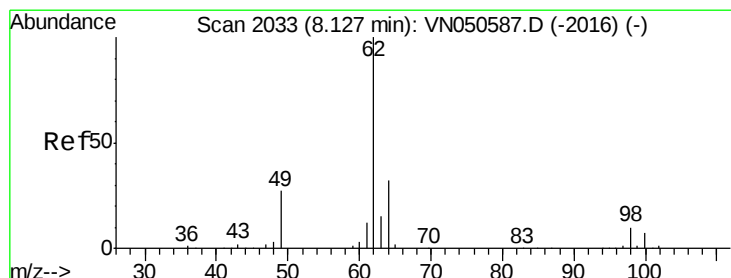
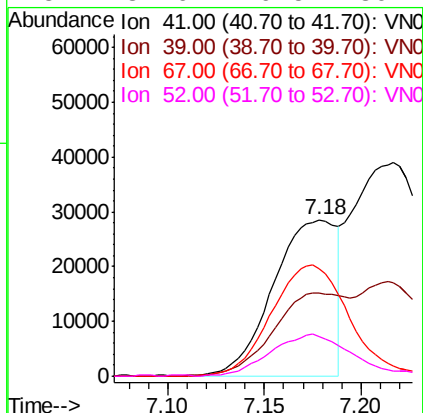
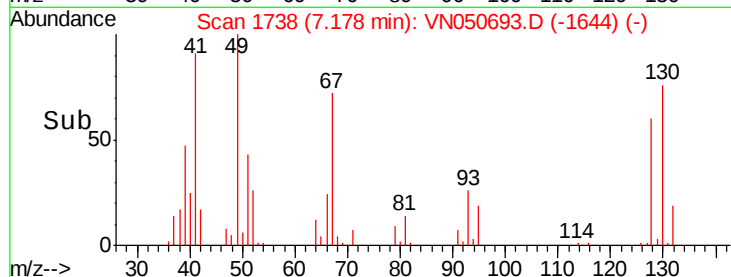
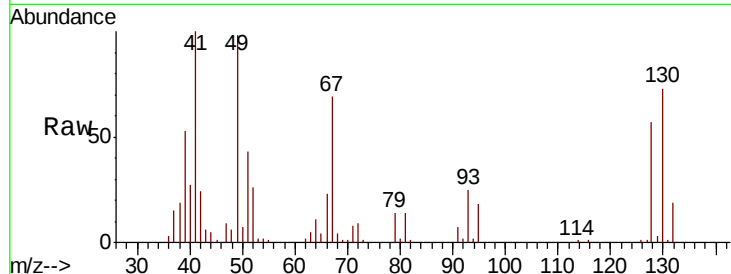
#41
Methacrylonitrile
Concen: 20.34 ug/l
RT: 7.18 min Scan# 1738
Delta R.T. 0.00 min
Lab File: VN050693.D
Acq: 16 Aug 2018 11:05

Instrument :
MSVOA_N
ClientSampleId :
VN0816WBSD01

Tot Ion	41	Resp	65346
Ion	Ratio	Lower	Upper
41	100		
39	61.5	44.6	66.8
67	87.7	66.7	100.1
52	34.6	26.5	39.7

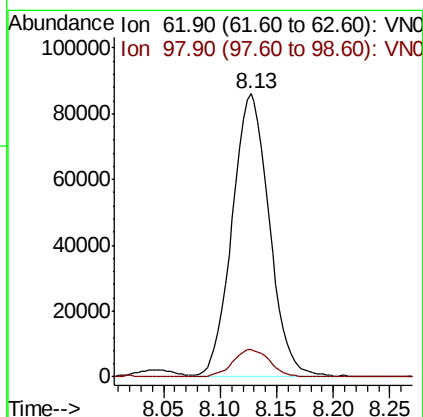
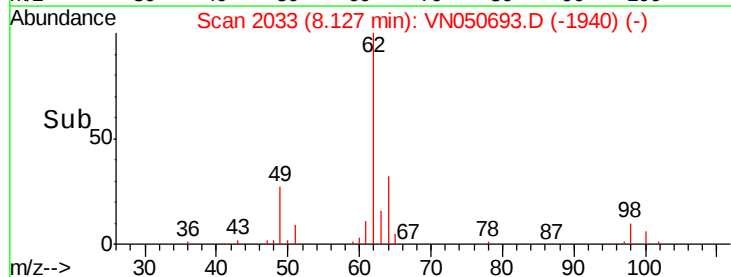
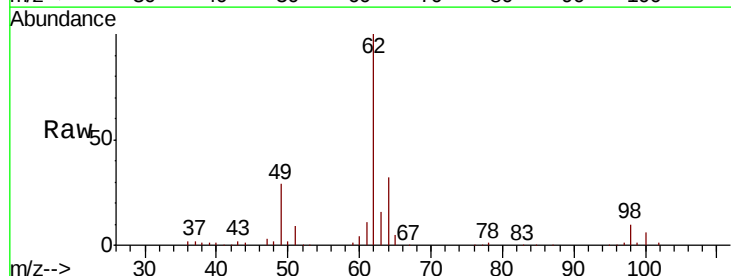
Manual Integrations
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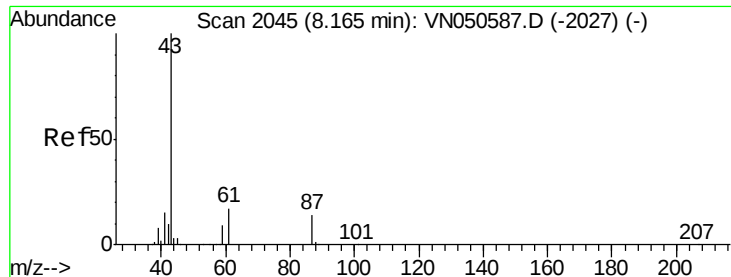
MMDadoda
8/17/2018 3:55:34 PM



#42
1,2-Dichloroethane
Concen: 19.94 ug/l
RT: 8.13 min Scan# 2033
Delta R.T. 0.00 min
Lab File: VN050693.D
Acq: 16 Aug 2018 11:05

Tgt Ion	62	Resp	195480
Ion	Ratio	Lower	Upper
62	100		
98	9.6	0.0	19.4





#43

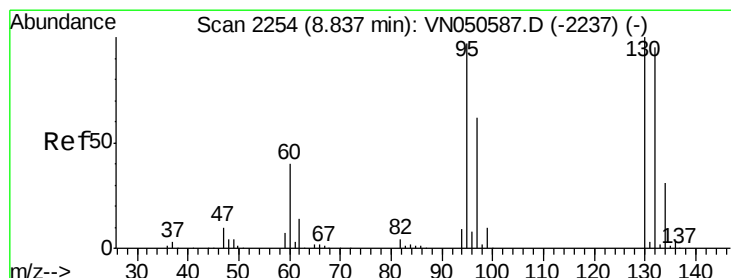
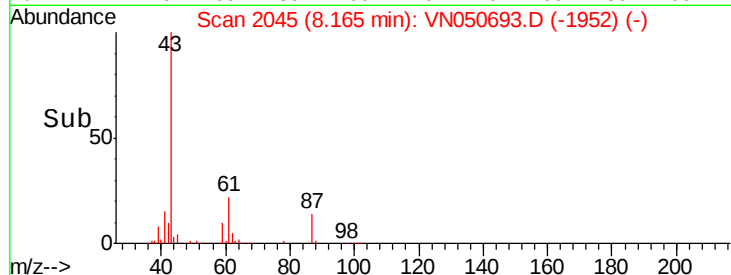
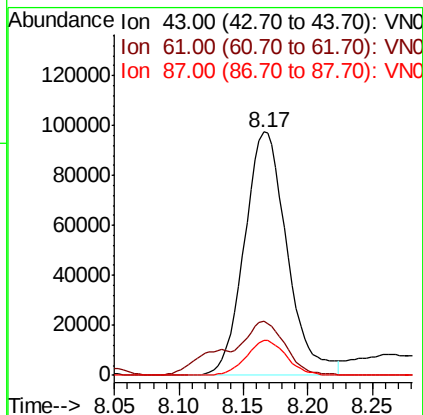
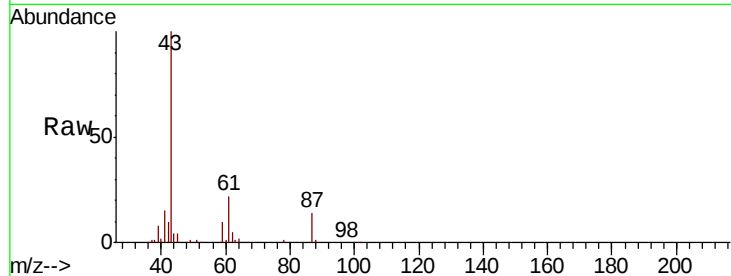
Isopropyl Acetate
 Concen: 20.79 ug/l
 RT: 8.17 min Scan# 2045
 Delta R.T. 0.00 min
 Lab File: VN050693.D
 Acq: 16 Aug 2018 11:05

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0816WBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
61	20.2	16.2	24.2
87	13.6	10.9	16.3

Manual Integrations
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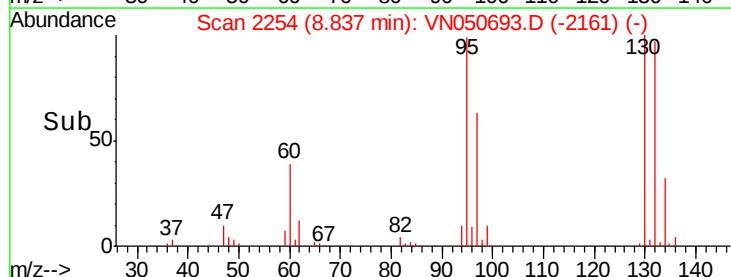
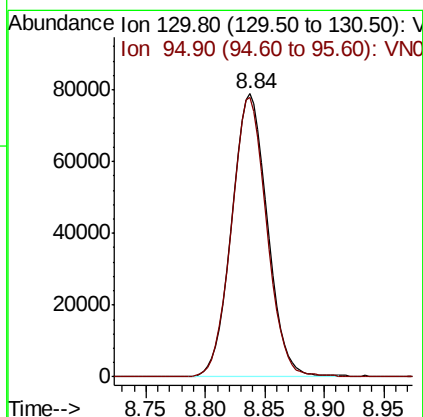
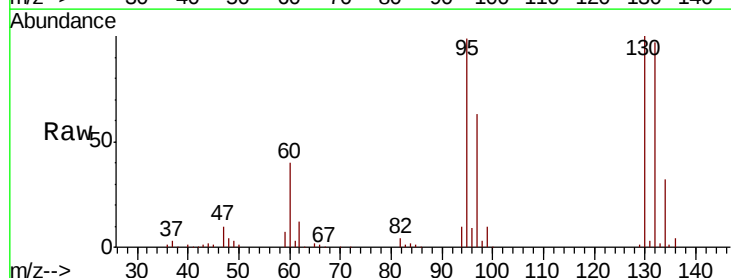
MMDadoda
 8/17/2018 3:55:34 PM

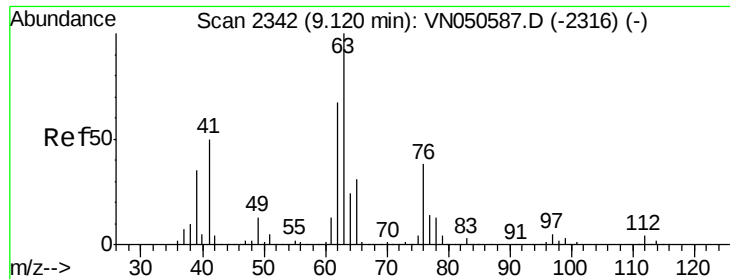


#44

Trichloroethene
 Concen: 19.12 ug/l
 RT: 8.84 min Scan# 2254
 Delta R.T. 0.00 min
 Lab File: VN050693.D
 Acq: 16 Aug 2018 11:05

Tgt Ion	Ratio	Lower	Upper
130	100		
95	98.8	0.0	193.8





#45

1,2-Dichloropropane

Concen: 19.56 ug/l

RT: 9.12 min Scan# 2342

Delta R.T. 0.00 min

Lab File: VN050693.D

Acq: 16 Aug 2018 11:05

Instrument :

MSVOA_N

ClientSampleId :

VN0816WBSD01

Tot Ion: 63 Resp: 166492

Ion Ratio Lower Upper

63 100

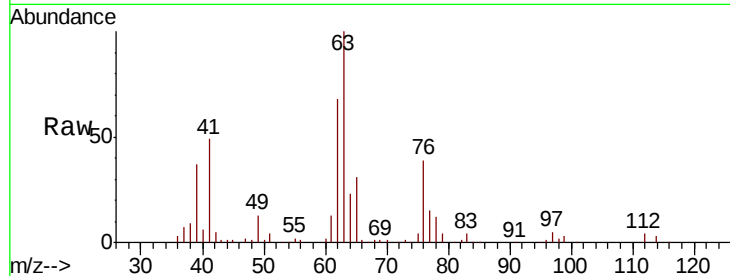
65 30.8 24.5 36.7

Manual Integrations

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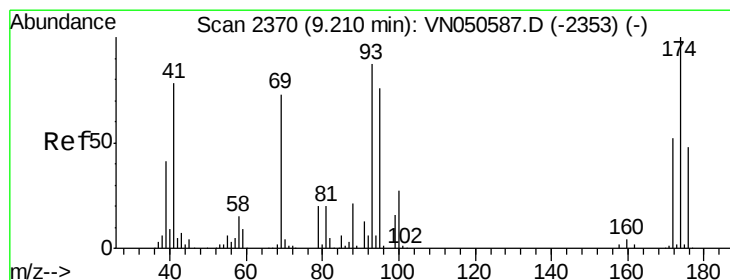
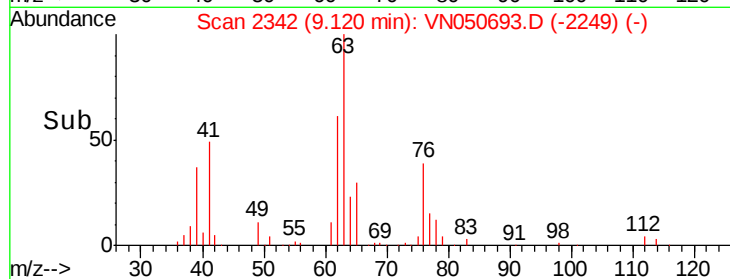
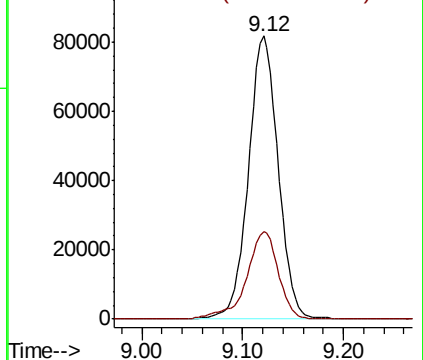
MMDadoda

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Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0



#46

Dibromomethane

Concen: 19.45 ug/l

RT: 9.21 min Scan# 2370

Delta R.T. 0.00 min

Lab File: VN050693.D

Acq: 16 Aug 2018 11:05

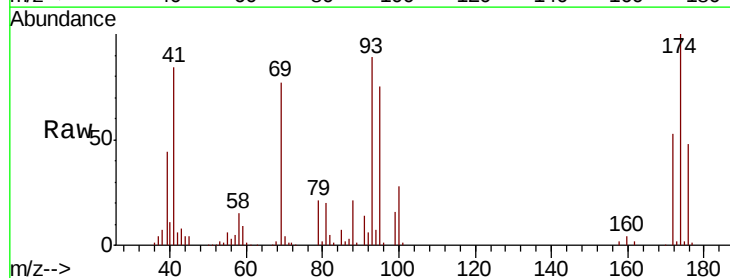
Tgt Ion: 93 Resp: 97779

Ion Ratio Lower Upper

93 100

95 83.2 69.1 103.7

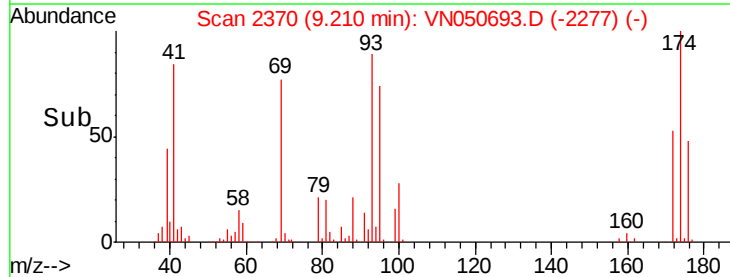
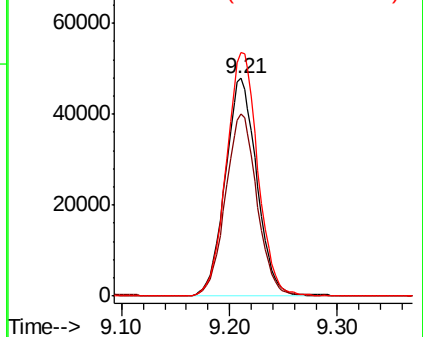
174 111.1 91.0 136.6

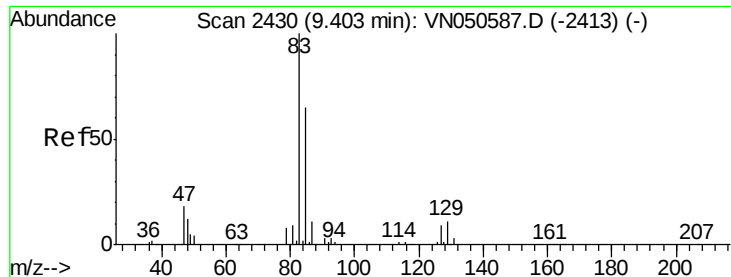


Abundance Ion 92.80 (92.50 to 93.50): VN0

Ion 94.80 (94.50 to 95.50): VN0

Ion 173.70 (173.40 to 174.40): V





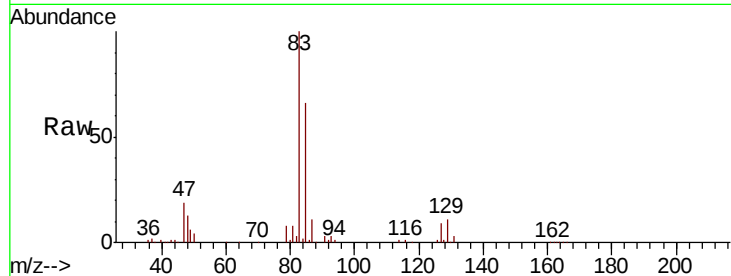
#47
Bromodichloromethane
Concen: 19.27 ug/l
RT: 9.40 min Scan# 2430
Delta R.T. 0.00 min
Lab File: VN050693.D
Acq: 16 Aug 2018 11:05

Instrument :
MSVOA_N
ClientSampleId :
VN0816WBSD01

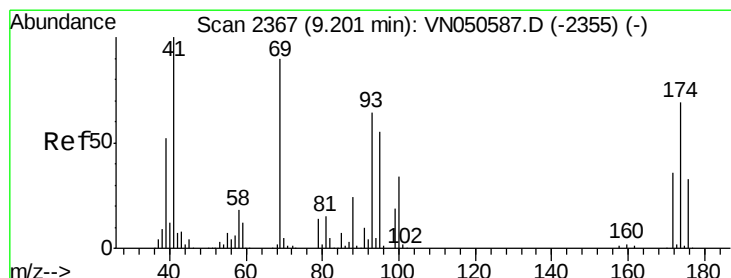
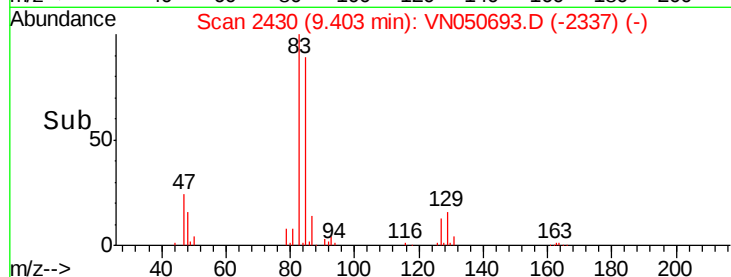
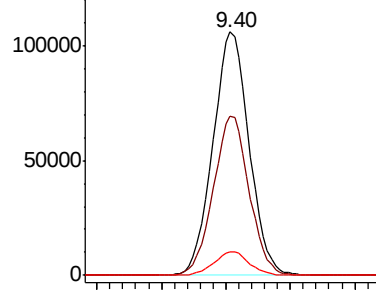
Tot Ion	Ratio	Resp	Lower	Upper
83	100	207029		
85	65.6	51.8	77.6	
127	9.4	7.2	10.8	

Manual Integrations
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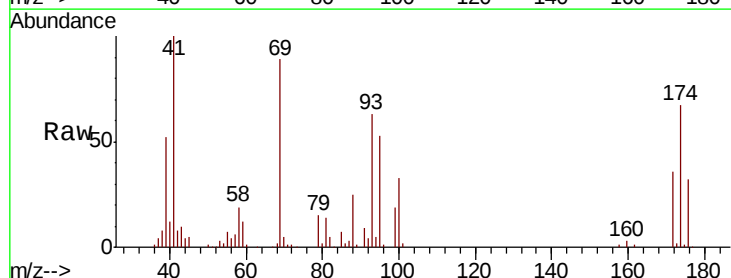


Abundance Ion 82.90 (82.60 to 83.60): VNO
Ion 84.90 (84.60 to 85.60): VNO
Ion 126.80 (126.50 to 127.50): VNO

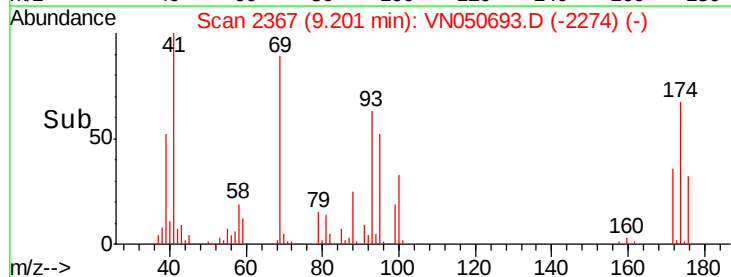
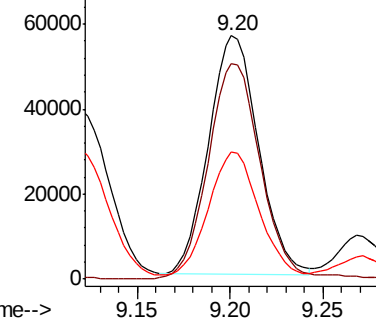


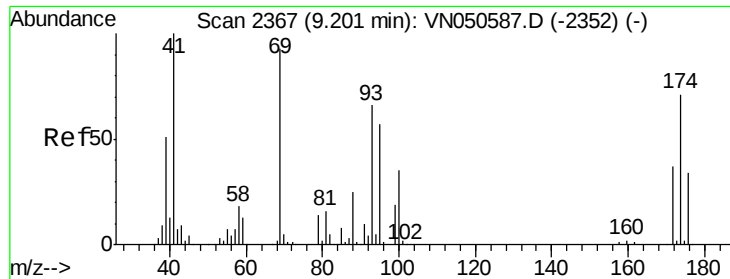
#48
Methyl methacrylate
Concen: 19.38 ug/l
RT: 9.20 min Scan# 2367
Delta R.T. 0.00 min
Lab File: VN050693.D
Acq: 16 Aug 2018 11:05

Tgt Ion	Ratio	Resp	Lower	Upper
41	100	105572		
69	95.1	73.4	110.0	
39	54.1	43.0	64.6	



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





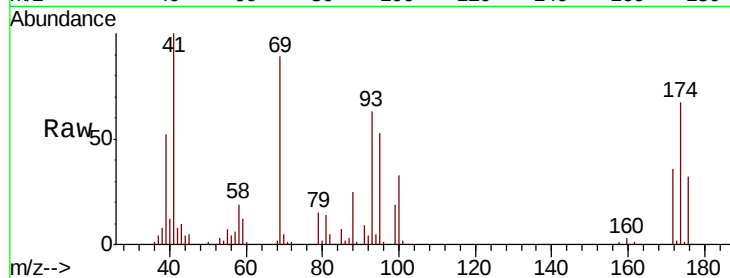
#49
 1,4-Dioxane
 Concen: 412.90 ug/l
 RT: 9.20 min Scan# 2367
 Delta R.T. 0.00 min
 Lab File: VN050693.D
 Acq: 16 Aug 2018 11:05

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0816WBSD01

Tot Ion	Ratio	Lower	Upper
88	100		
43	33.0	25.9	38.9
58	72.9	56.5	84.7

Manual Integrations
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 8/17/2018 3:55:34 PM

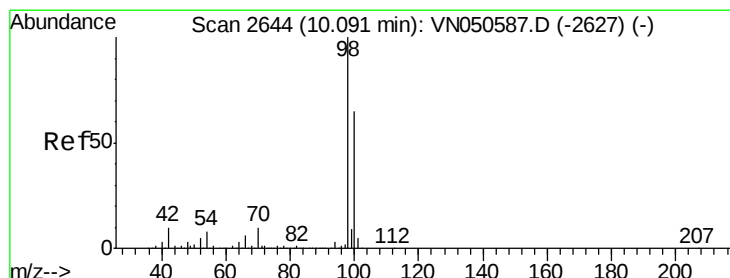
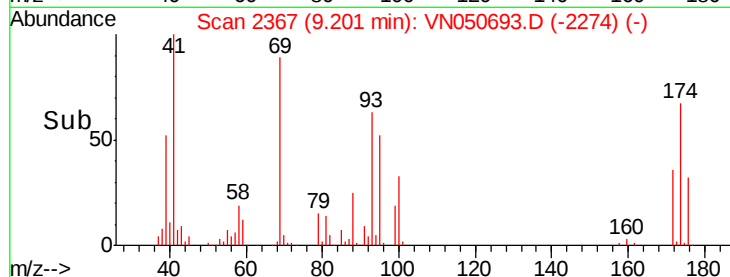
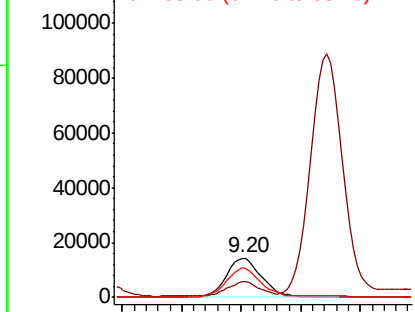


Abundance

Ion 88.00 (87.70 to 88.70): VN0

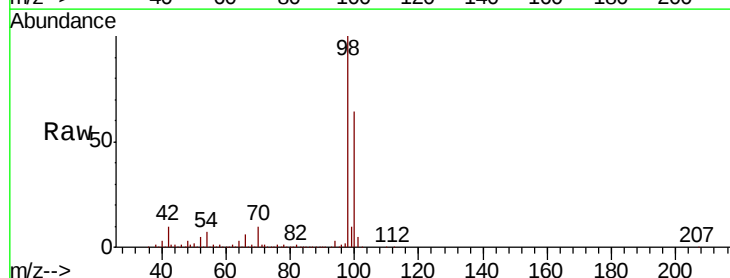
Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50
 Toluene-d8
 Concen: 50.31 ug/l
 RT: 10.09 min Scan# 2644
 Delta R.T. 0.00 min
 Lab File: VN050693.D
 Acq: 16 Aug 2018 11:05

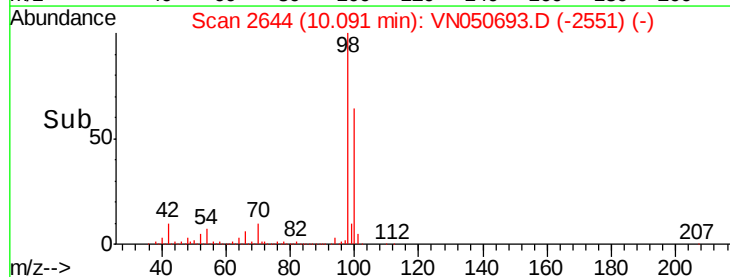
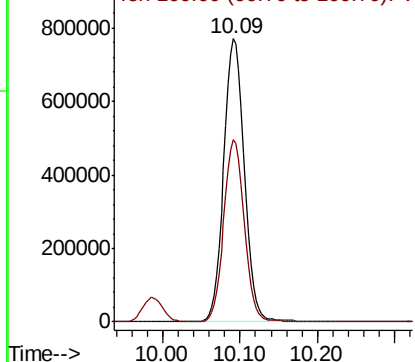
Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.2	51.8	77.8

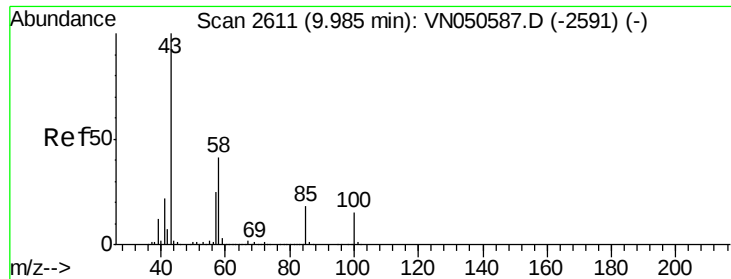


Abundance

Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





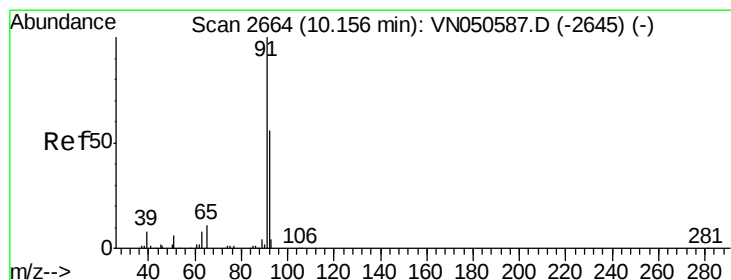
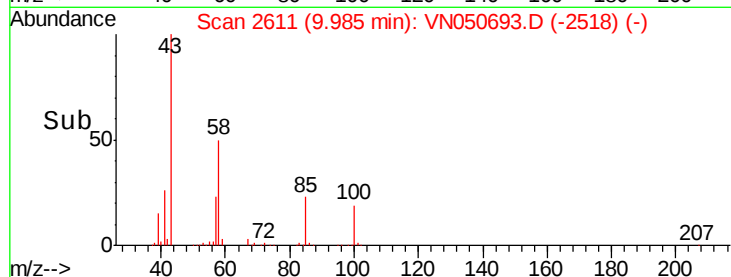
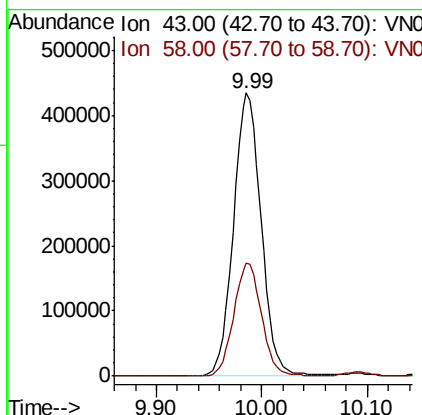
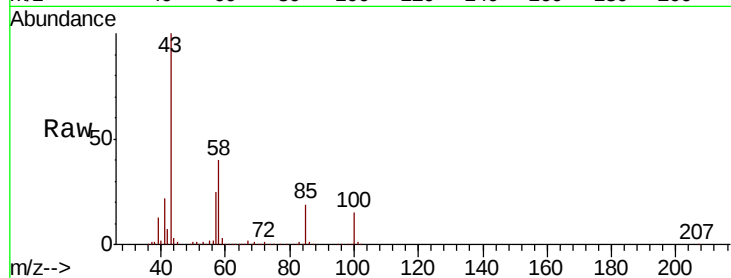
#51
 4-Methyl-2-Pentanone
 Concen: 107.42 ug/l
 RT: 9.99 min Scan# 2611
 Delta R.T. 0.00 min
 Lab File: VN050693.D
 Acq: 16 Aug 2018 11:05

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0816WBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
58	40.1	32.5	48.7

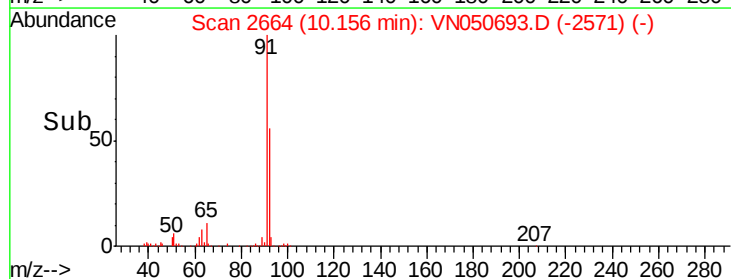
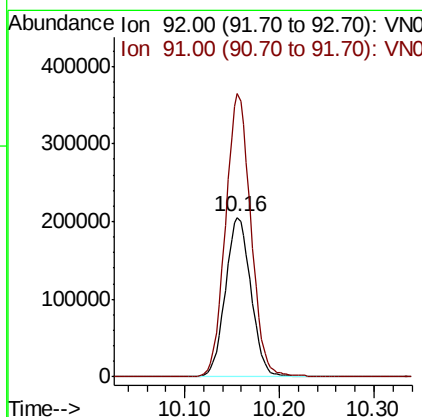
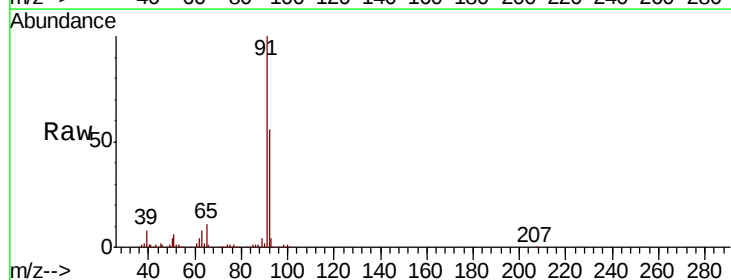
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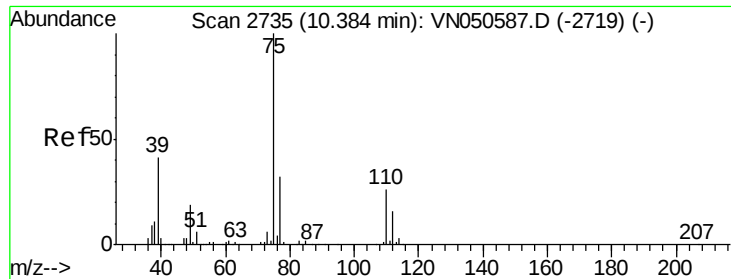
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#52
 Toluene
 Concen: 20.24 ug/l
 RT: 10.16 min Scan# 2664
 Delta R.T. 0.00 min
 Lab File: VN050693.D
 Acq: 16 Aug 2018 11:05

Tgt Ion	Ratio	Lower	Upper
92	100		
91	175.8	141.9	212.9





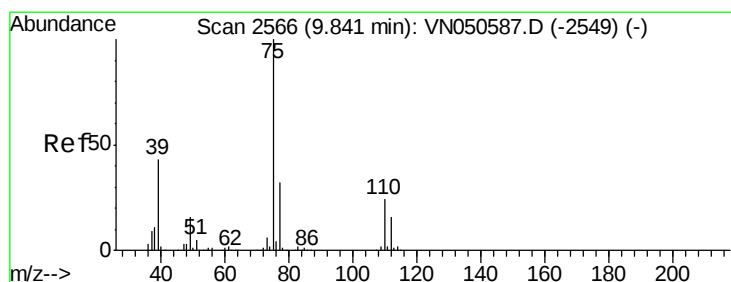
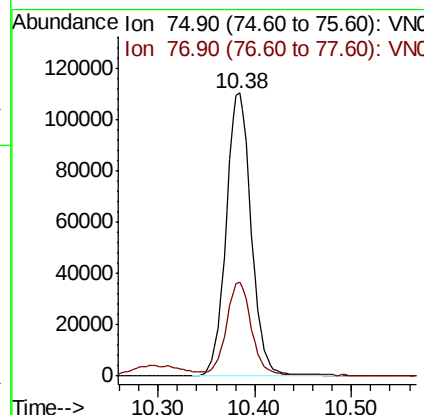
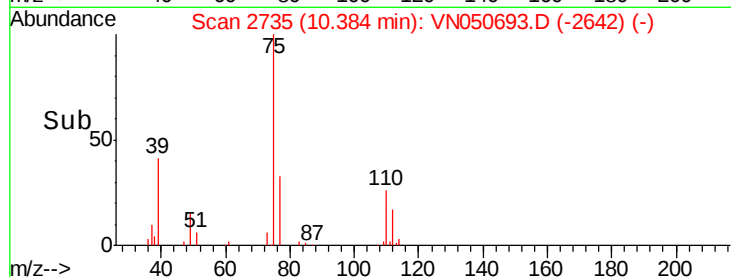
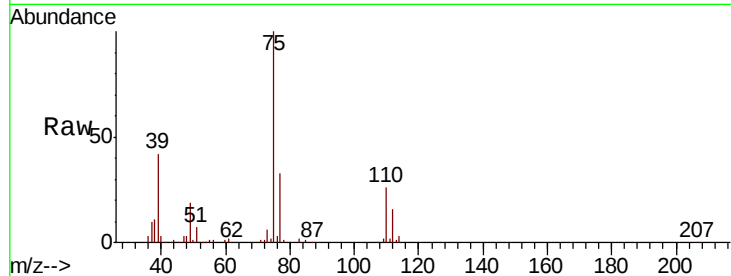
#53
t-1,3-Dichloropropene
Concen: 19.88 ug/l
RT: 10.38 min Scan# 2735
Delta R.T. 0.00 min
Lab File: VN050693.D
Acq: 16 Aug 2018 11:05

Instrument :
MSVOA_N
ClientSampleId :
VN0816WBSD01

Tot Ion	Ratio	Lower	Upper
75	100		
77	32.9	25.8	38.6

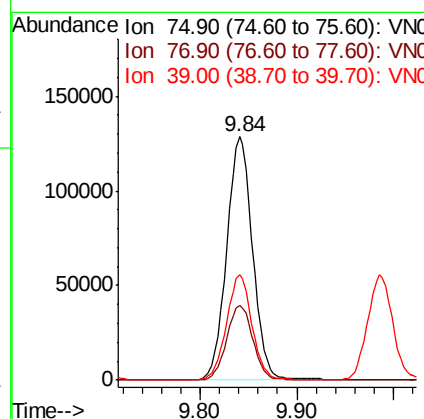
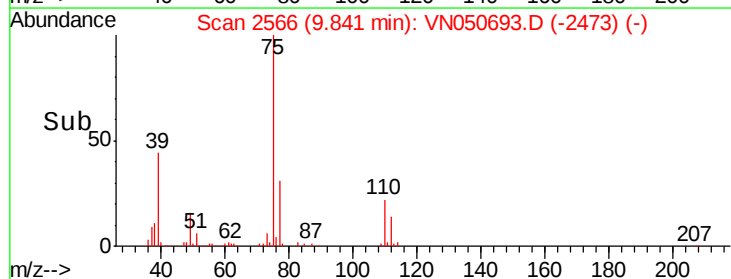
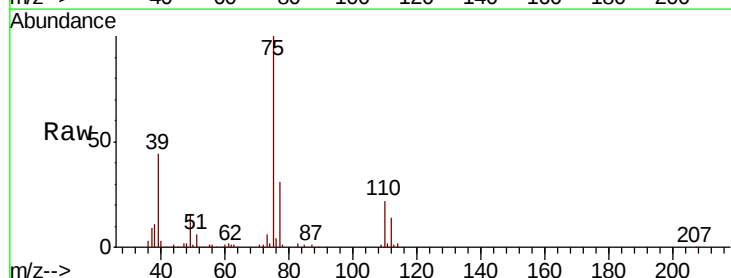
Manual Integrations
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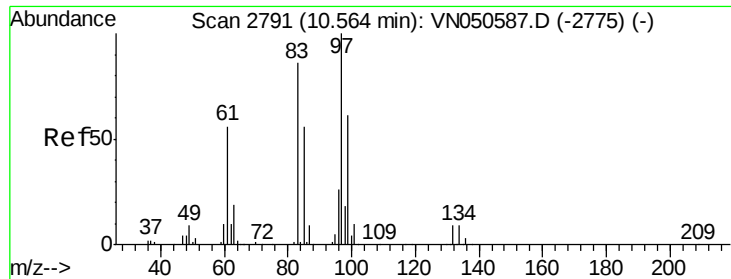
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8/17/2018 3:55:34 PM



#54
cis-1,3-Dichloropropene
Concen: 20.82 ug/l
RT: 9.84 min Scan# 2566
Delta R.T. 0.00 min
Lab File: VN050693.D
Acq: 16 Aug 2018 11:05

Tgt Ion	Ratio	Lower	Upper
75	100		
77	30.5	25.6	38.4
39	43.4	34.4	51.6





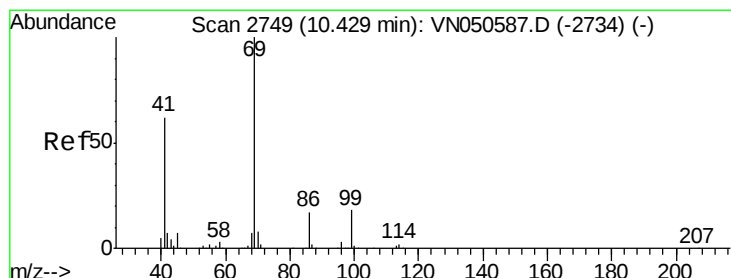
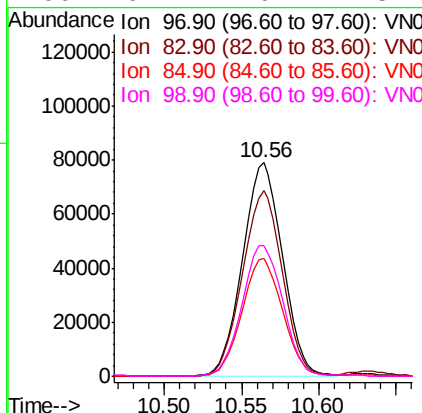
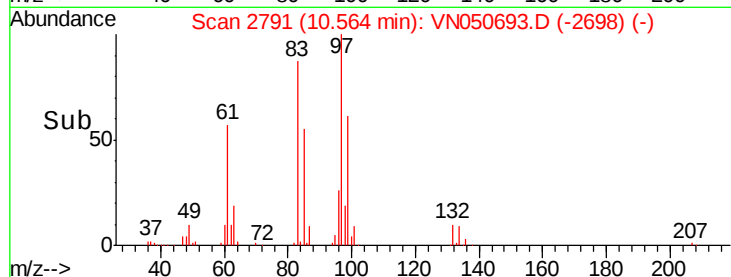
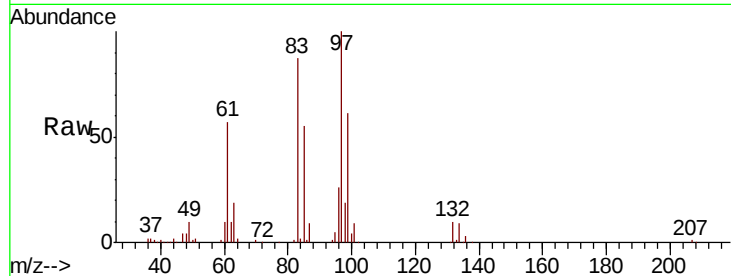
#55
 1,1,2-Trichloroethane
 Concen: 20.00 ug/l
 RT: 10.56 min Scan# 2791
 Delta R.T. 0.00 min
 Lab File: VN050693.D
 Acq: 16 Aug 2018 11:05

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0816WBSD01

Tot Ion	Ratio	Lower	Upper
97	100		
83	86.9	68.5	102.7
85	55.4	44.6	66.8
99	61.1	49.1	73.7

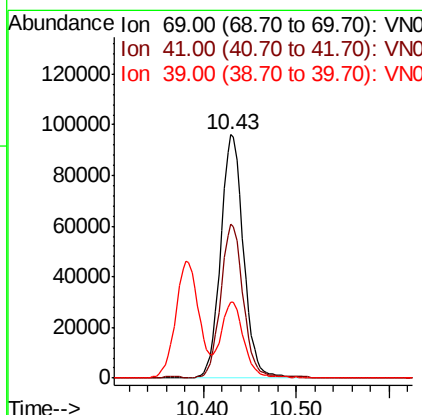
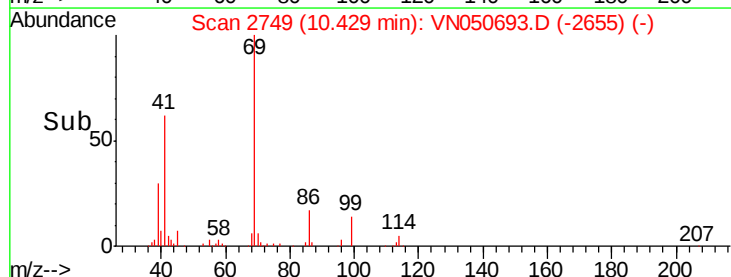
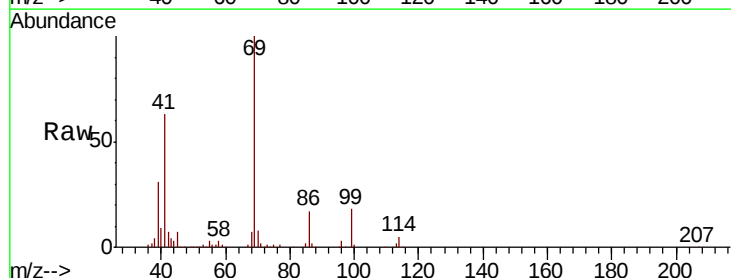
Manual Integrations
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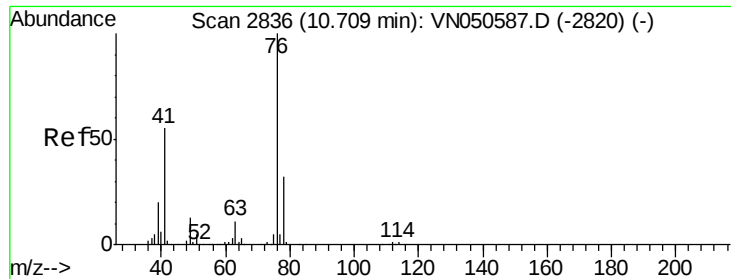
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#56
 Ethyl methacrylate
 Concen: 19.29 ug/l
 RT: 10.43 min Scan# 2749
 Delta R.T. 0.00 min
 Lab File: VN050693.D
 Acq: 16 Aug 2018 11:05

Tgt Ion	Ratio	Lower	Upper
69	100		
41	61.4	49.7	74.5
39	30.6	24.2	36.2





#57

1,3-Dichloropropane

Concen: 20.11 ug/l

RT: 10.71 min Scan# 2836

Delta R.T. 0.00 min

Lab File: VN050693.D

Acq: 16 Aug 2018 11:05

Instrument :

MSVOA_N

ClientSampleId :

VN0816WBSD01

Tot Ion: 76 Resp: 235133

Ion Ratio Lower Upper

76 100

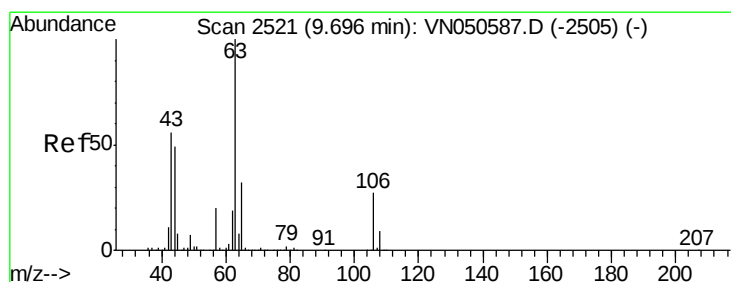
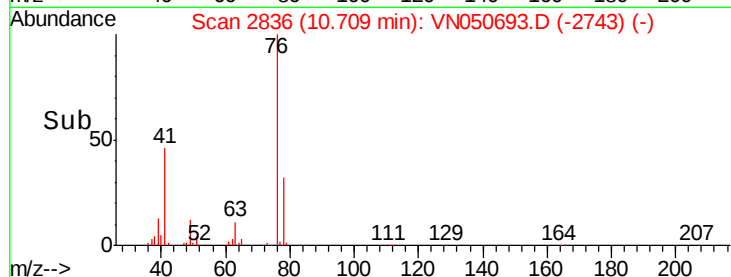
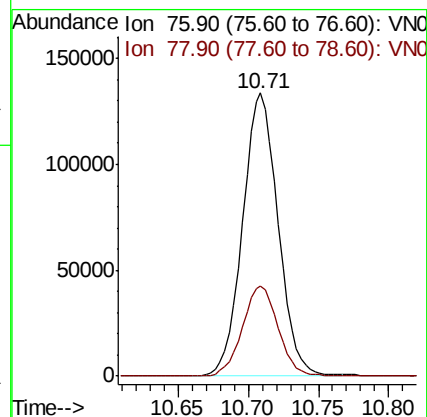
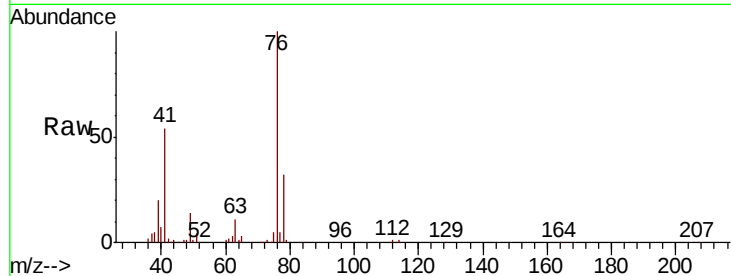
78 32.2 25.8 38.6

Manual Integrations

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#58

2-Chloroethyl Vinyl ether

Concen: 95.29 ug/l

RT: 9.70 min Scan# 2521

Delta R.T. 0.00 min

Lab File: VN050693.D

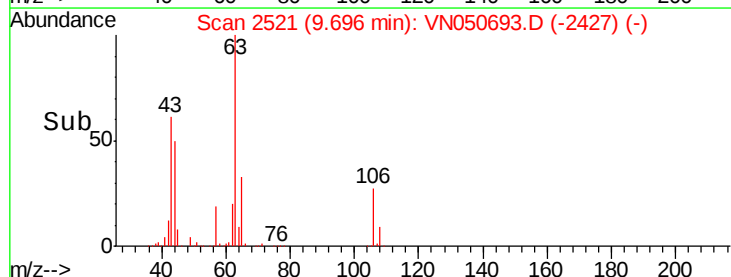
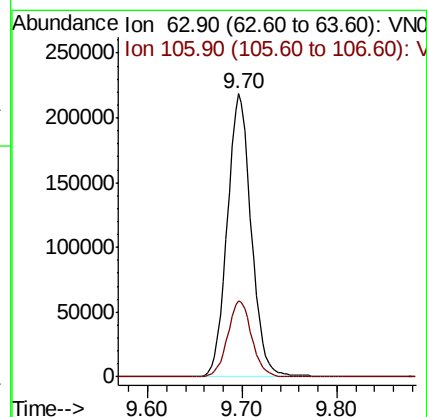
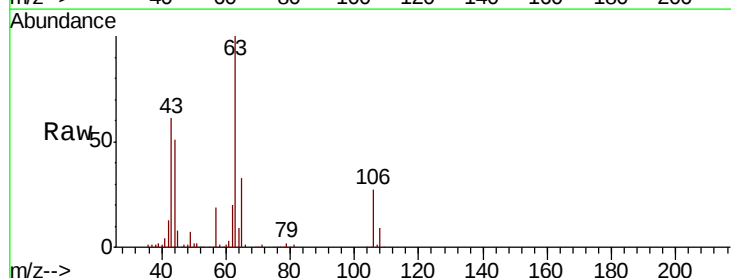
Acq: 16 Aug 2018 11:05

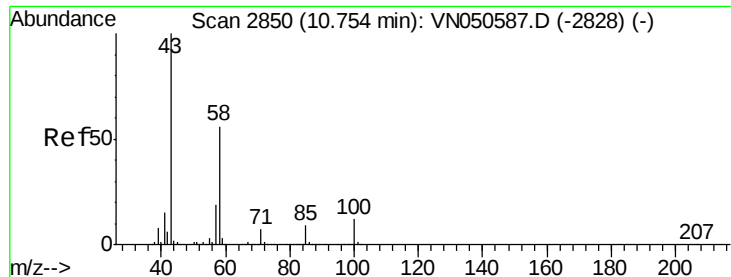
Tgt Ion: 63 Resp: 385998

Ion Ratio Lower Upper

63 100

106 27.0 21.7 32.5





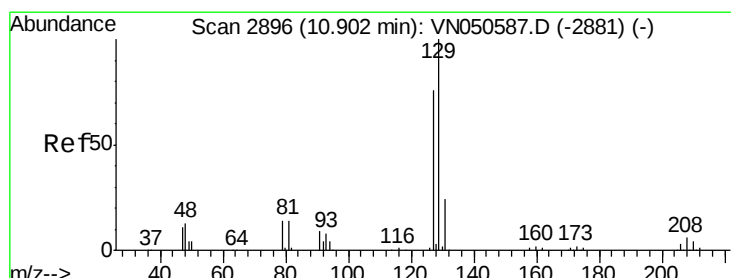
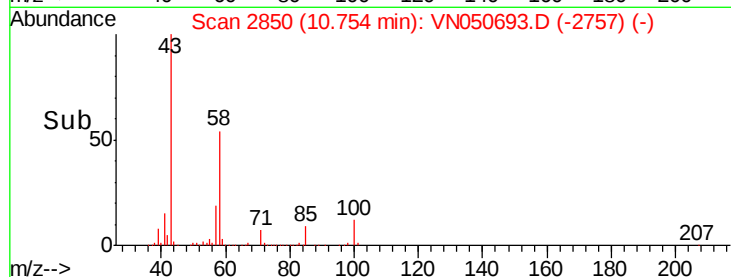
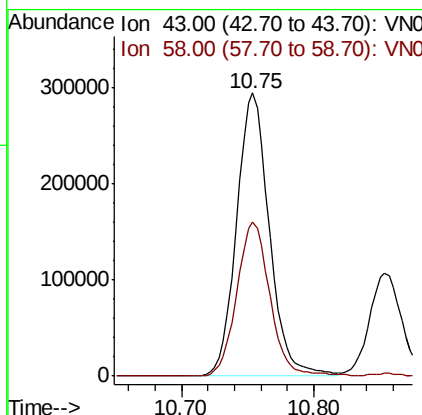
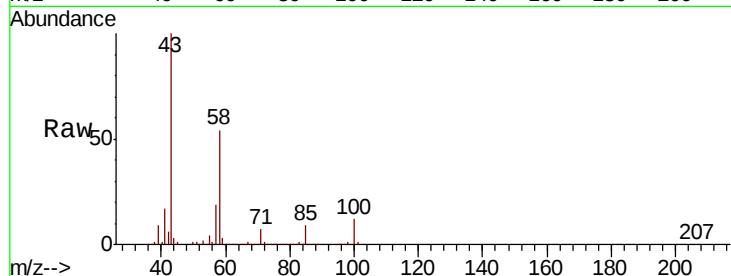
#59
2-Hexanone
Concen: 106.58 ug/l
RT: 10.75 min Scan# 2850
Delta R.T. 0.00 min
Lab File: VN050693.D
Acq: 16 Aug 2018 11:05

Instrument :
MSVOA_N
ClientSampleId :
VN0816WBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
58	55.4	28.0	84.0

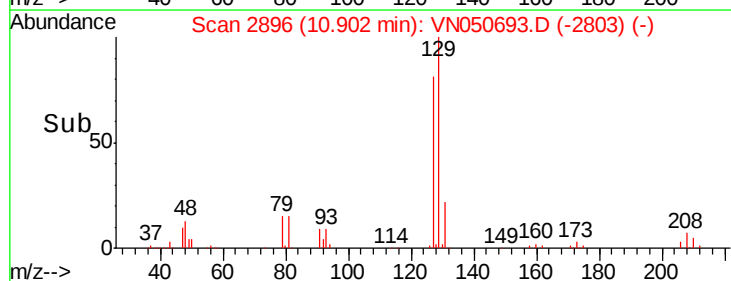
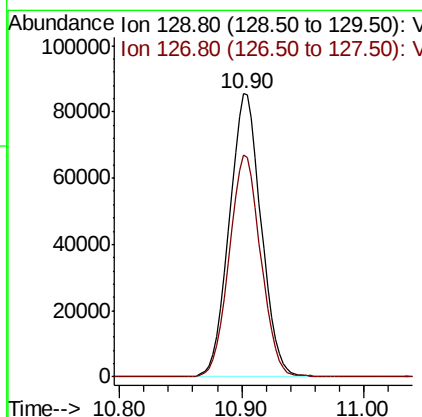
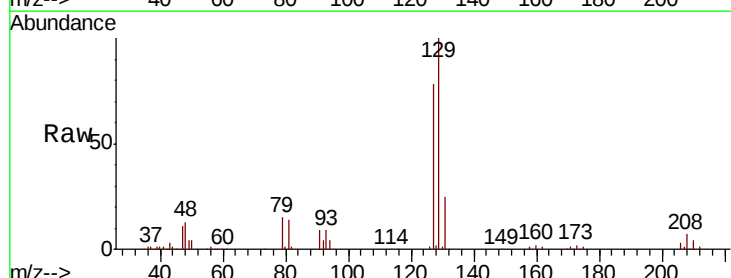
Manual Integrations
APPROVED

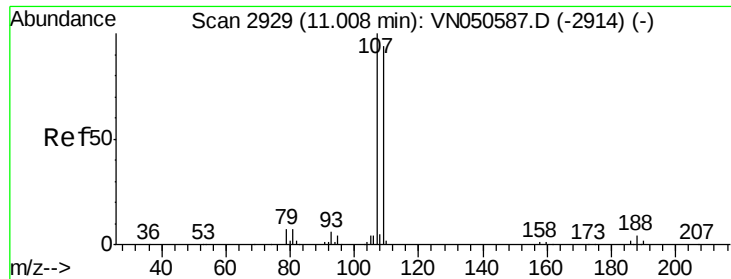
MMDadoda
8/17/2018 3:55:34 PM



#60
Dibromochloromethane
Concen: 19.70 ug/l
RT: 10.90 min Scan# 2896
Delta R.T. 0.00 min
Lab File: VN050693.D
Acq: 16 Aug 2018 11:05

Tgt Ion	Ratio	Lower	Upper
129	100		
127	77.9	38.9	116.7





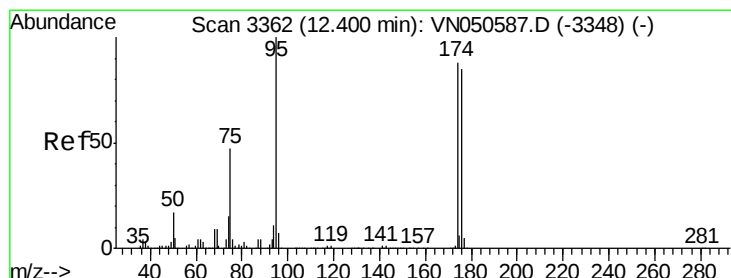
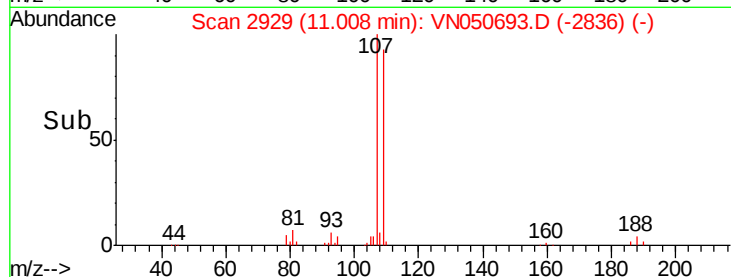
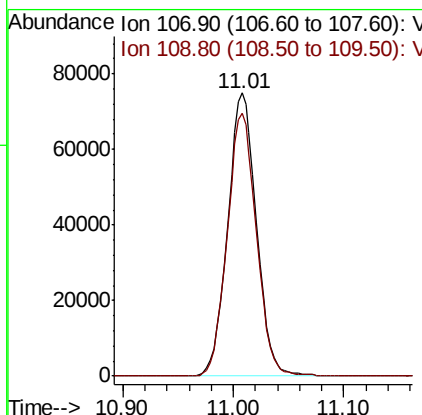
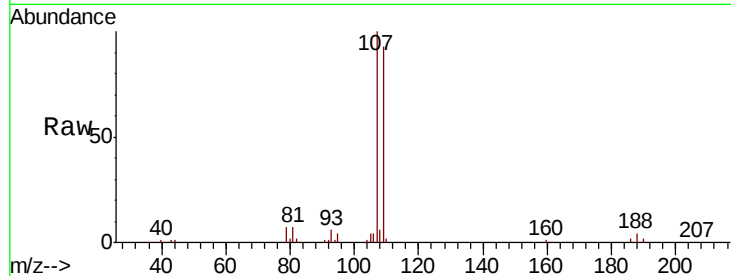
#61
 1,2-Dibromoethane
 Concen: 19.91 ug/l
 RT: 11.01 min Scan# 2929
 Delta R.T. 0.00 min
 Lab File: VN050693.D
 Acq: 16 Aug 2018 11:05

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0816WBSD01

Tot Ion: 107 Resp: 135239
 Ion Ratio Lower Upper
 107 100
 109 94.2 75.7 113.5

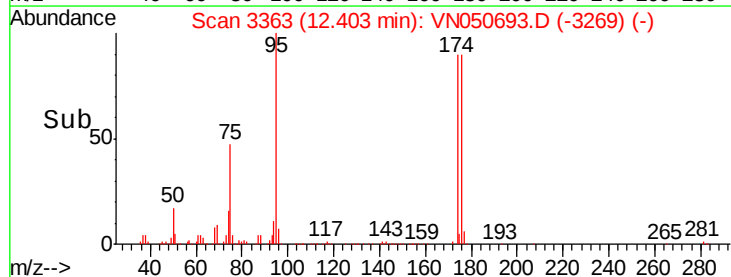
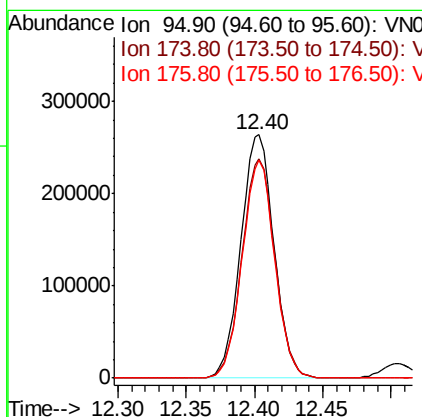
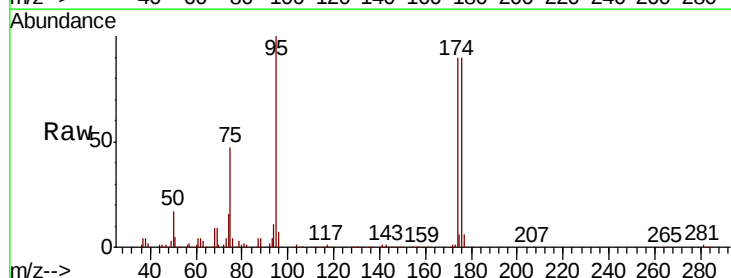
Manual Integrations
 APPROVED

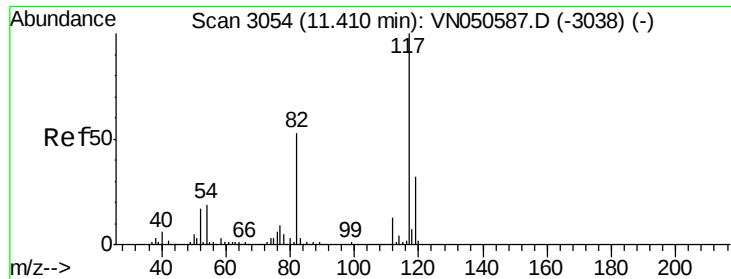
MMDadoda
 8/17/2018 3:55:34 PM



#62
 4-Bromofluorobenzene
 Concen: 47.44 ug/l
 RT: 12.40 min Scan# 3363
 Delta R.T. 0.00 min
 Lab File: VN050693.D
 Acq: 16 Aug 2018 11:05

Tgt Ion: 95 Resp: 444692
 Ion Ratio Lower Upper
 95 100
 174 89.8 0.0 177.8
 176 87.9 0.0 175.0





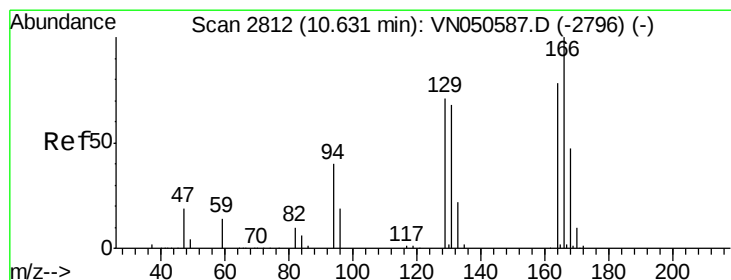
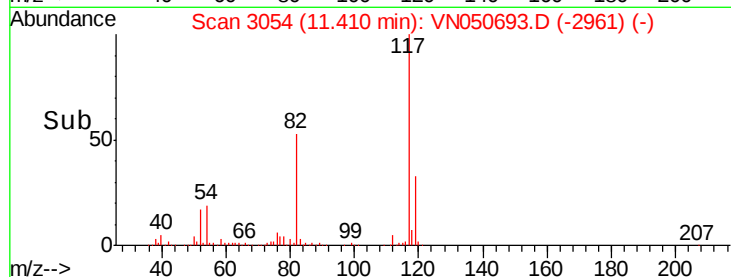
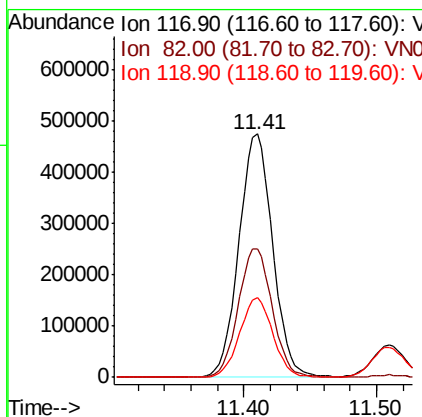
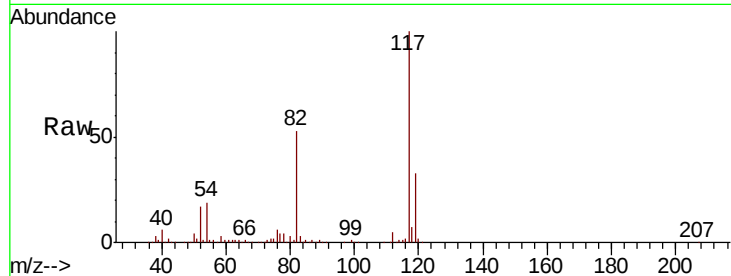
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050693.D
Acq: 16 Aug 2018 11:05

Instrument :
MSVOA_N
ClientSampleId :
VN0816WBSD01

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.9	42.4	63.6
119	32.7	25.8	38.8

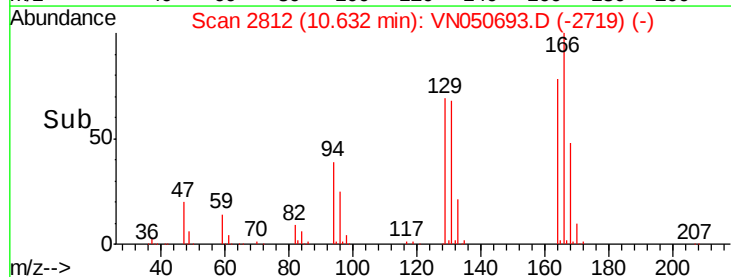
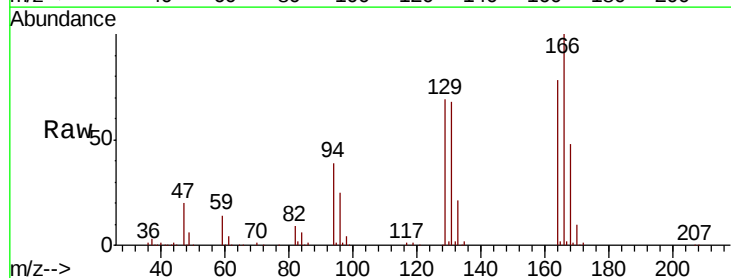
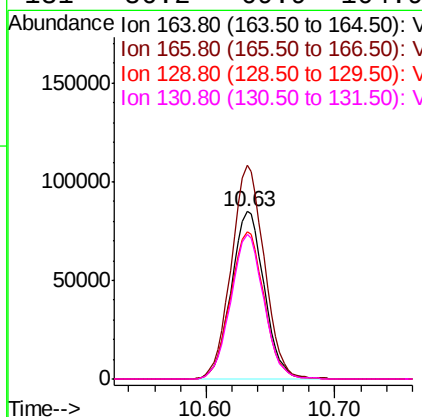
Manual Integrations
APPROVED

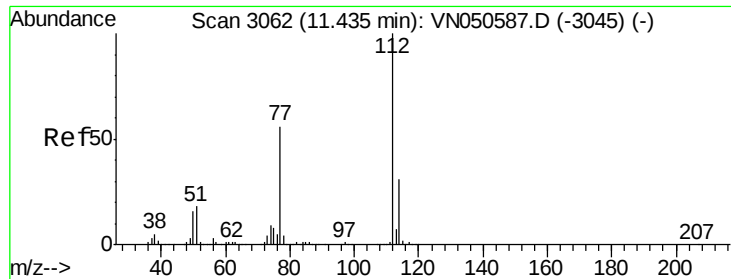
MMDadoda
8/17/2018 3:55:34 PM



#64
Tetrachloroethene
Concen: 19.32 ug/l
RT: 10.63 min Scan# 2812
Delta R.T. 0.00 min
Lab File: VN050693.D
Acq: 16 Aug 2018 11:05

Tgt Ion	Ratio	Lower	Upper
164	100		
166	127.5	102.1	153.1
129	88.0	72.7	109.1
131	86.2	69.9	104.9





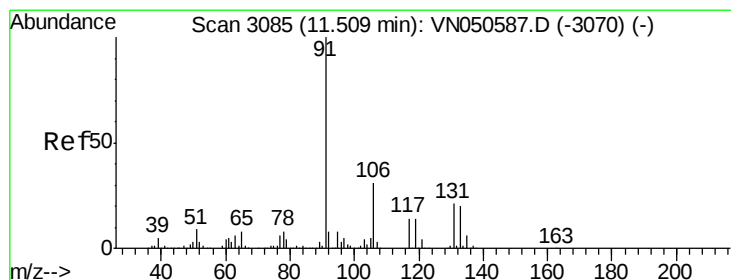
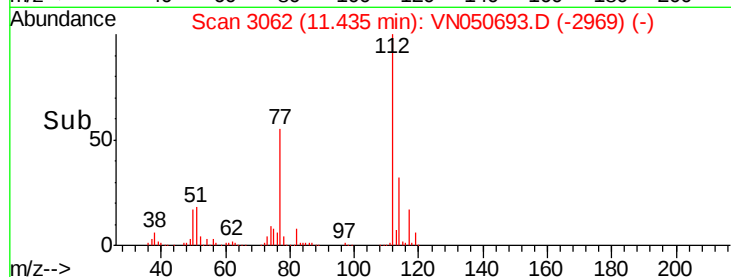
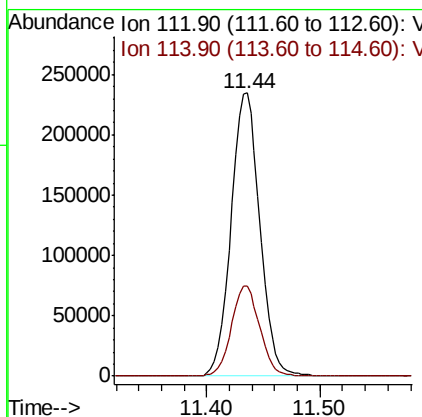
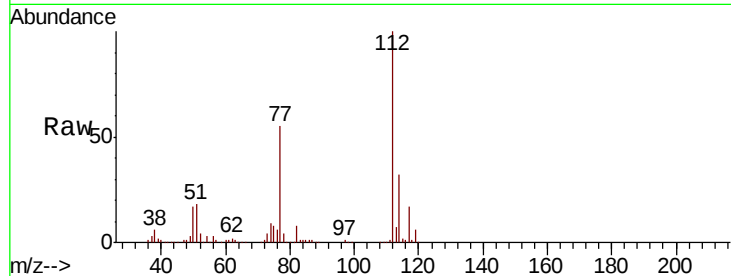
#65
Chlorobenzene
Concen: 19.83 ug/l
RT: 11.44 min Scan# 3062
Delta R.T. 0.00 min
Lab File: VN050693.D
Acq: 16 Aug 2018 11:05

Instrument :
MSVOA_N
ClientSampled :
VN0816WBSD01

Tot Ion	Ratio	Lower	Upper
112	100		
114	31.9	25.2	37.8

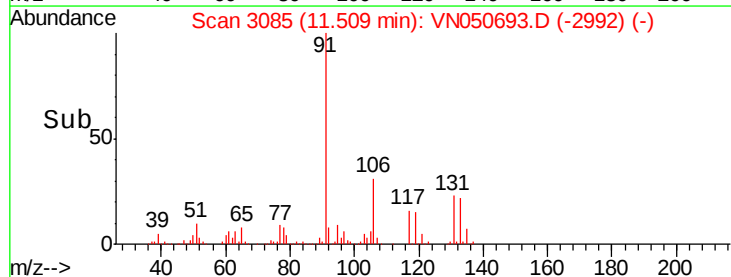
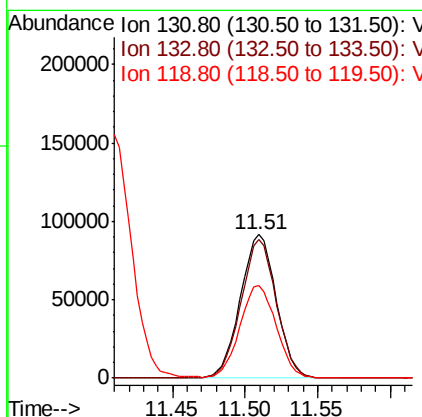
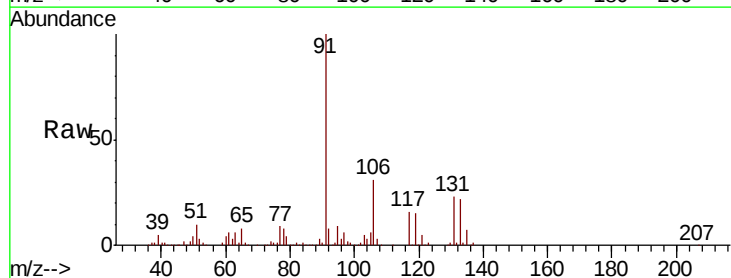
Manual Integrations
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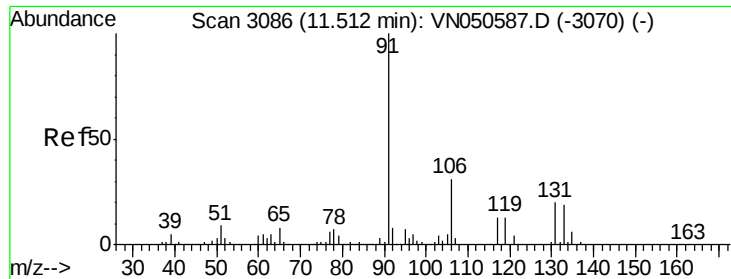
MMDadoda
8/17/2018 3:55:34 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 20.07 ug/l
RT: 11.51 min Scan# 3085
Delta R.T. 0.00 min
Lab File: VN050693.D
Acq: 16 Aug 2018 11:05

Tgt Ion	Ratio	Lower	Upper
131	100		
133	95.6	47.6	142.9
119	65.5	33.1	99.3





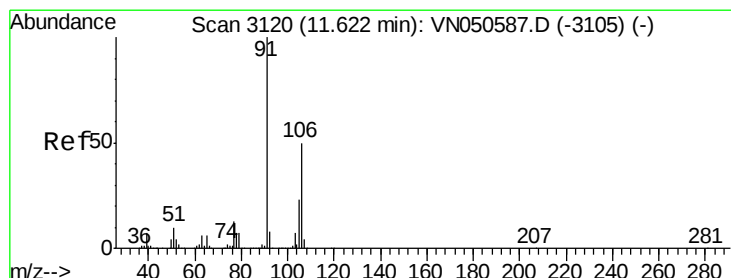
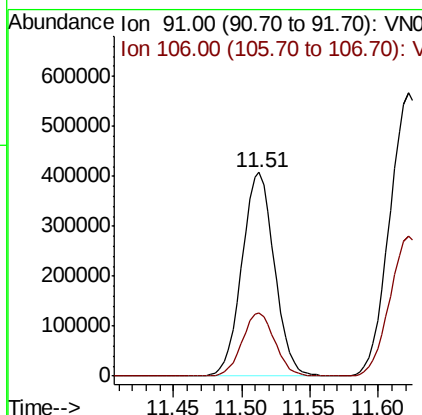
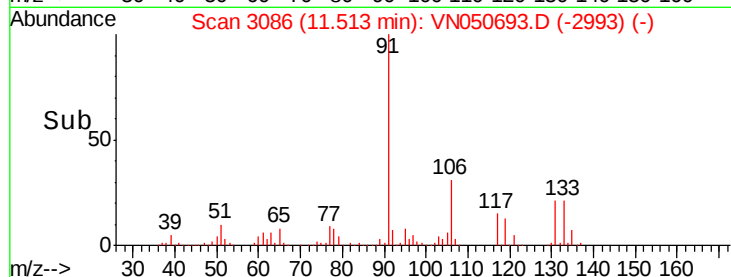
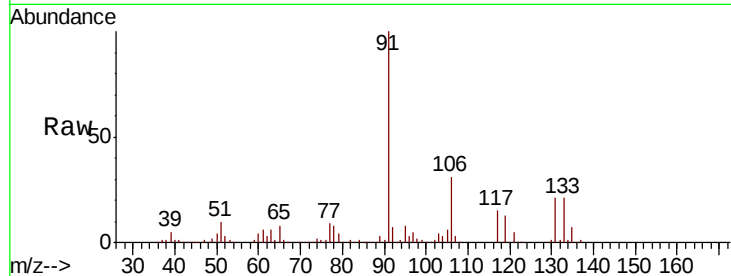
#67
Ethyl Benzene
Concen: 20.02 ug/l
RT: 11.51 min Scan# 3086
Delta R.T. 0.00 min
Lab File: VN050693.D
Acq: 16 Aug 2018 11:05

Instrument :
MSVOA_N
ClientSampleId :
VN0816WBSD01

Tot Ion: 91 Resp: 676330
Ion Ratio Lower Upper
91 100
106 30.9 24.8 37.2

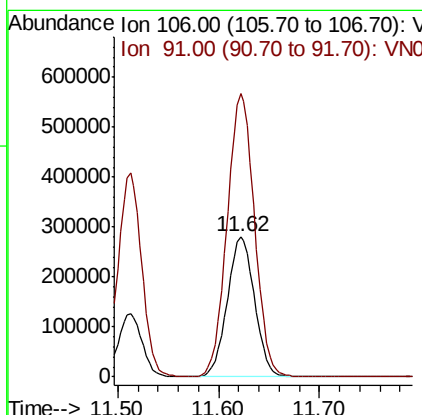
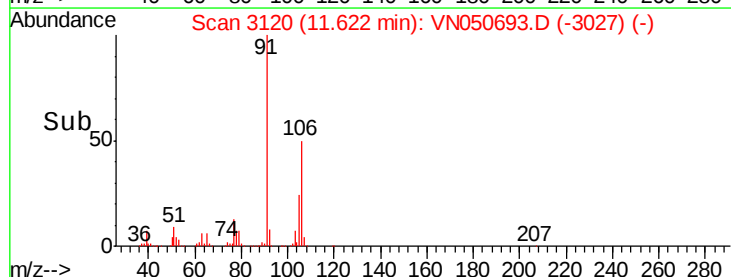
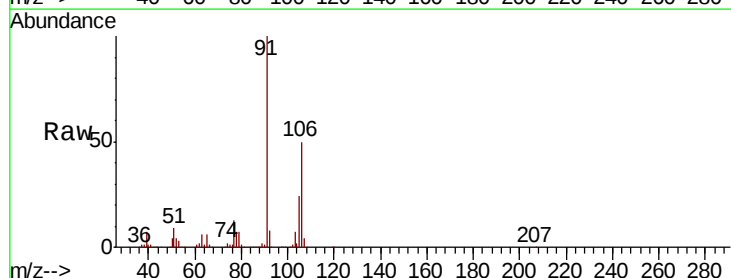
Manual Integrations
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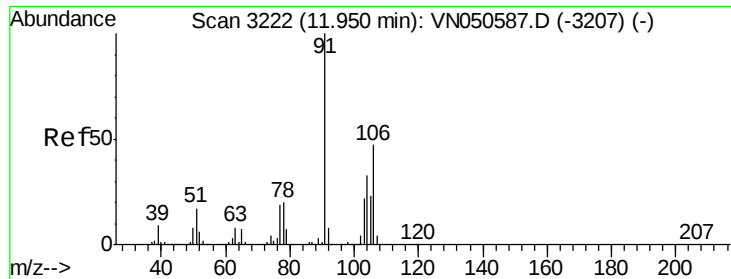
MMDadoda
8/17/2018 3:55:34 PM



#68
m/p-Xylenes
Concen: 40.91 ug/l
RT: 11.62 min Scan# 3120
Delta R.T. 0.00 min
Lab File: VN050693.D
Acq: 16 Aug 2018 11:05

Tgt Ion: 106 Resp: 528592
Ion Ratio Lower Upper
106 100
91 202.7 161.5 242.3





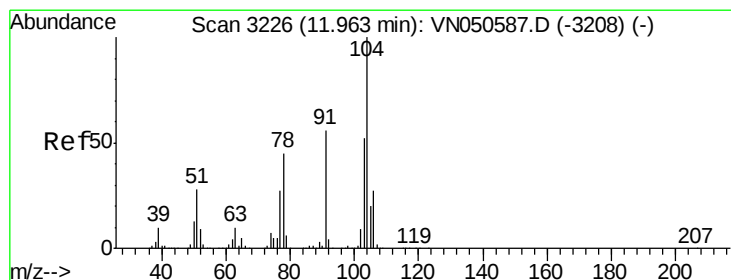
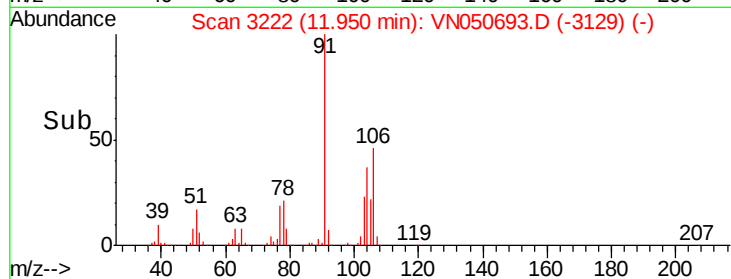
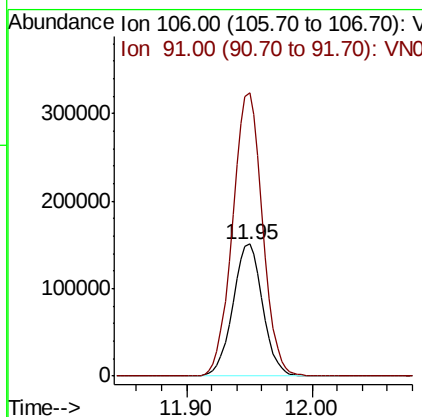
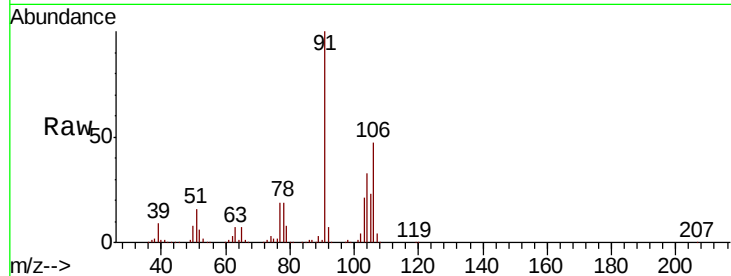
#69
o-Xylene
Concen: 20.23 ug/l
RT: 11.95 min Scan# 3222
Delta R.T. 0.00 min
Lab File: VN050693.D
Acq: 16 Aug 2018 11:05

Instrument :
MSVOA_N
ClientSampleId :
VN0816WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
106	100	249190		
91	215.1	106.8	320.4	

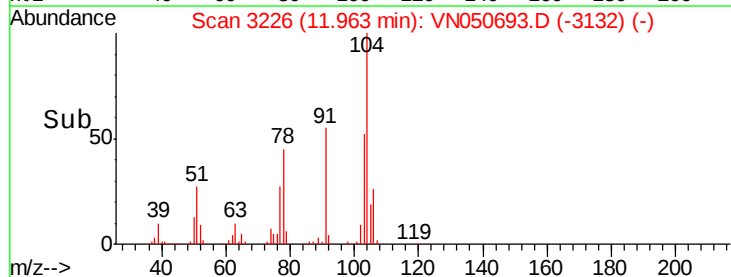
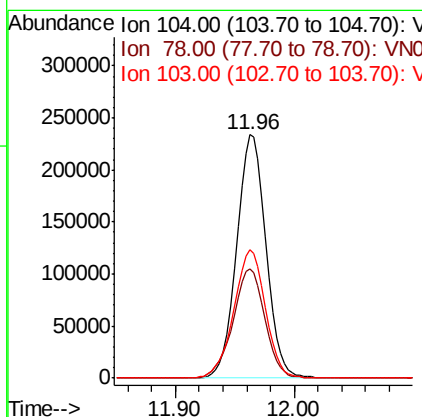
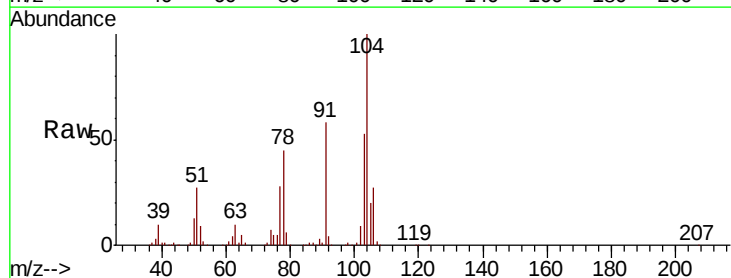
Manual Integrations
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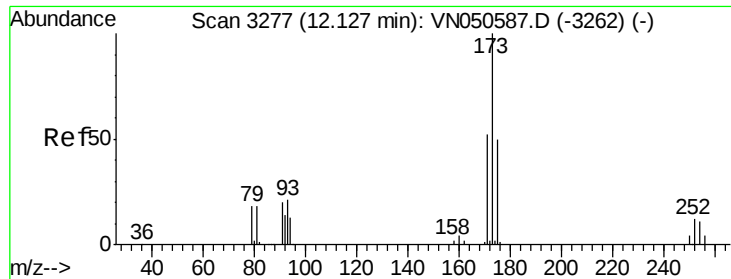
MMDadoda
8/17/2018 3:55:34 PM



#70
Styrene
Concen: 18.81 ug/l
RT: 11.96 min Scan# 3226
Delta R.T. 0.00 min
Lab File: VN050693.D
Acq: 16 Aug 2018 11:05

Tgt Ion	Ratio	Resp	Lower	Upper
104	100	399011		
78	48.9	39.1	58.7	
103	56.7	44.9	67.3	





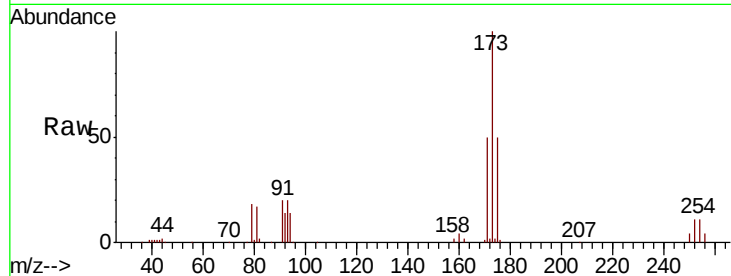
#71
 Bromoform
 Concen: 20.19 ug/l
 RT: 12.13 min Scan# 3277
 Delta R.T. 0.00 min
 Lab File: VN050693.D
 Acq: 16 Aug 2018 11:05

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0816WBSD01

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.3	24.4	73.2
254	0.0	0.0	0.0

Manual Integrations
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 8/17/2018 3:55:34 PM

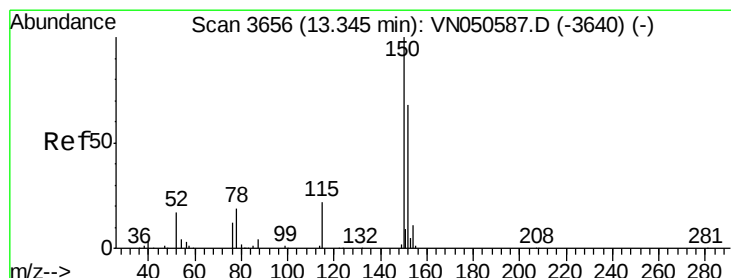
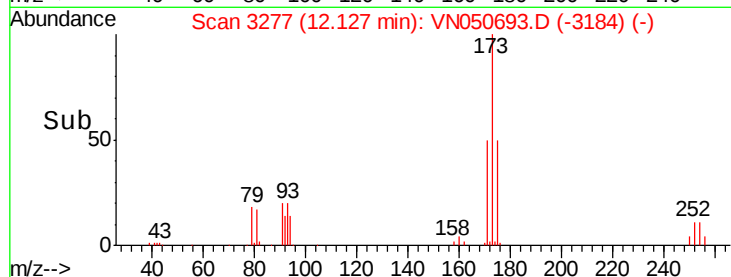
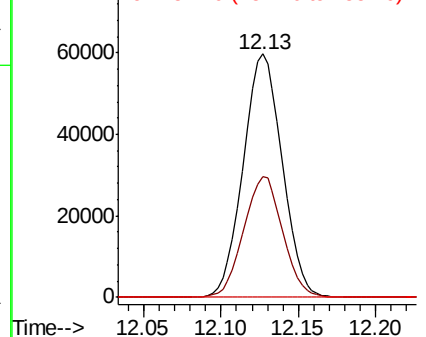


Abundance

Ion 172.70 (172.40 to 173.40): V

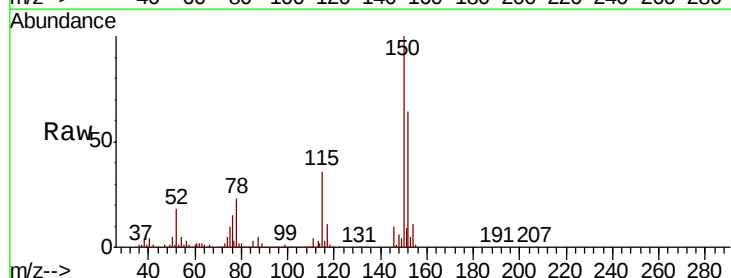
Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72
 1,4-Dichlorobenzene-d4
 Concen: 50.00 ug/l
 RT: 13.35 min Scan# 3656
 Delta R.T. 0.00 min
 Lab File: VN050693.D
 Acq: 16 Aug 2018 11:05

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.0	28.1	84.2
150	163.1	0.0	347.8

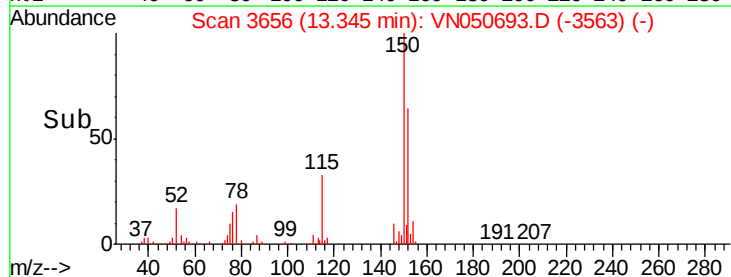
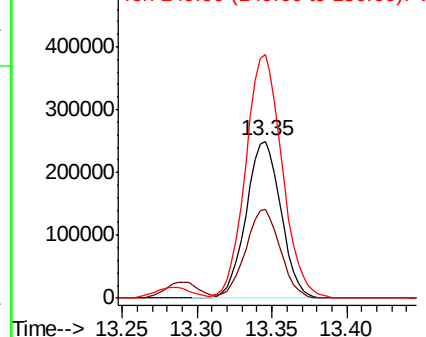


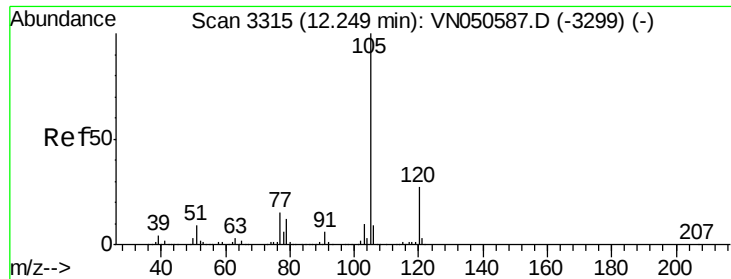
Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 21.06 ug/l

RT: 12.25 min Scan# 3315

Delta R.T. 0.00 min

Lab File: VN050693.D

Acq: 16 Aug 2018 11:05

Instrument :

MSVOA_N

ClientSampleId :

VN0816WBSD01

Tot Ion: 105 Resp: 664733

Ion Ratio Lower Upper

105 100

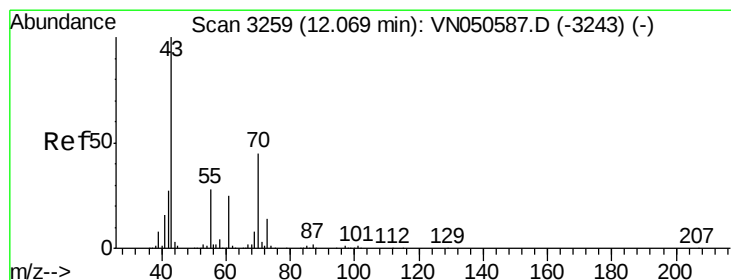
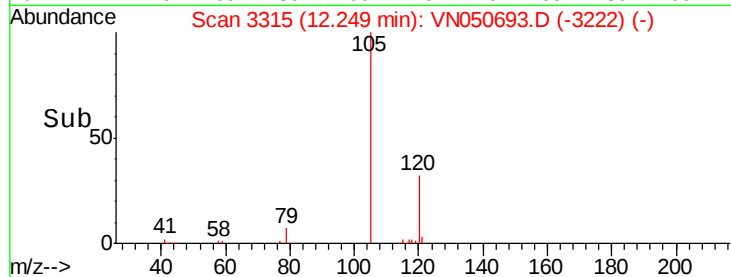
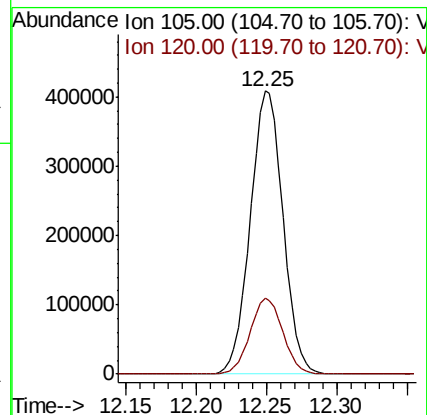
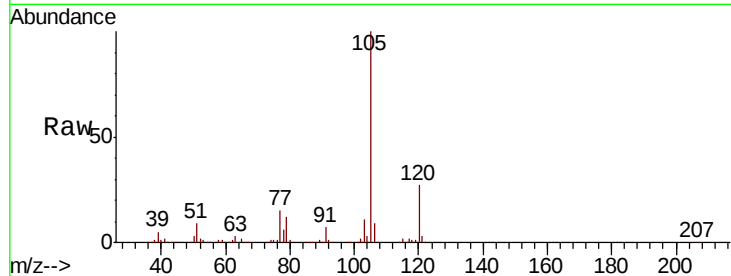
120 26.7 13.4 40.1

Manual Integrations

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#74

N-ethyl acetate

Concen: 20.92 ug/l

RT: 12.07 min Scan# 3259

Delta R.T. 0.00 min

Lab File: VN050693.D

Acq: 16 Aug 2018 11:05

Tgt Ion: 43 Resp: 171791

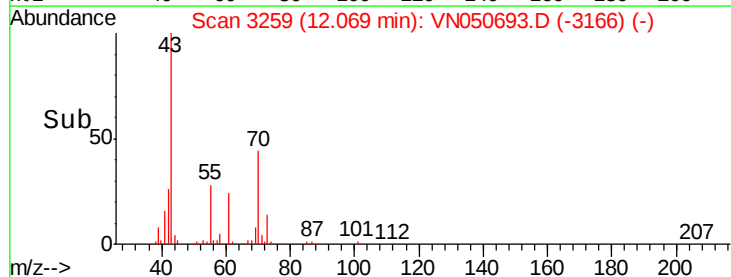
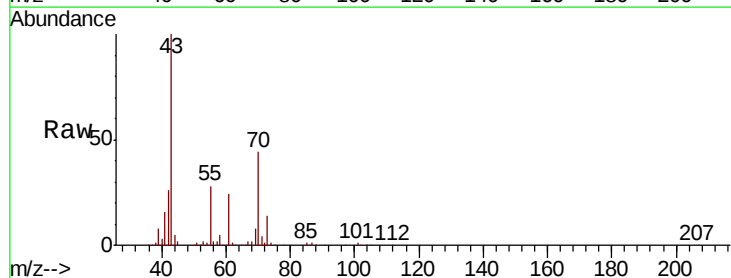
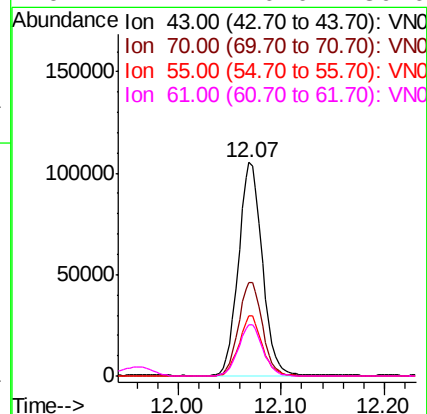
Ion Ratio Lower Upper

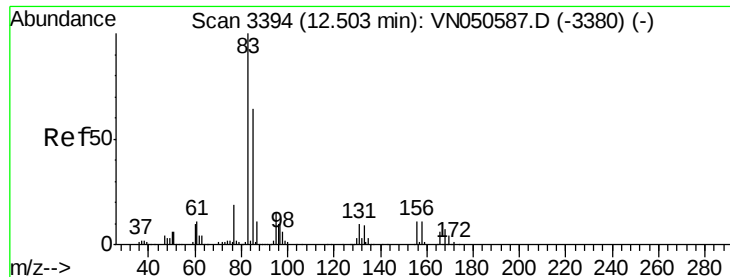
43 100

70 43.5 35.9 53.9

55 27.0 22.2 33.4

61 24.2 20.0 30.0





#75

1,1,2,2-Tetrachloroethane

Concen: 22.40 ug/l

RT: 12.50 min Scan# 3394

Delta R.T. 0.00 min

Lab File: VN050693.D

Acq: 16 Aug 2018 11:05

Instrument :

MSVOA_N

ClientSampleId :

VN0816WBSD01

Tot Ion: 83 Resp: 173562

Ion Ratio Lower Upper

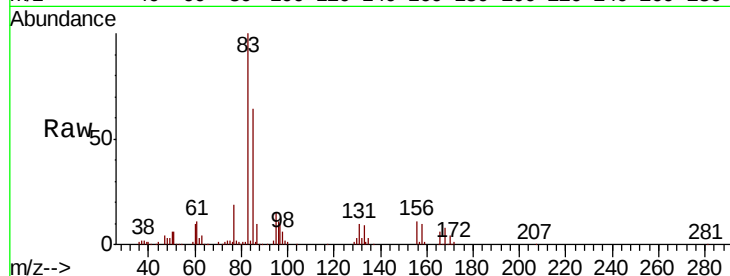
83 100

131 10.2 5.3 15.9

85 64.2 32.1 96.5

Manual Integrations
APPROVED

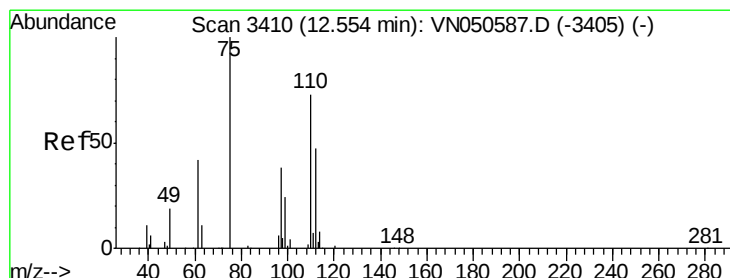
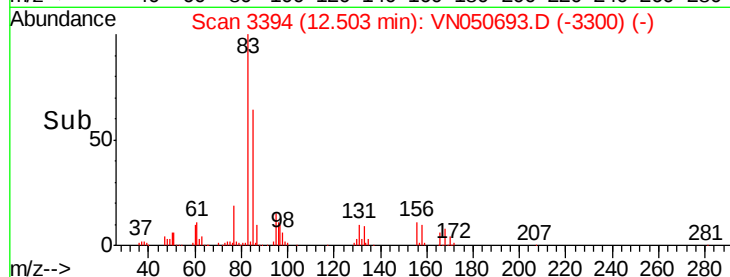
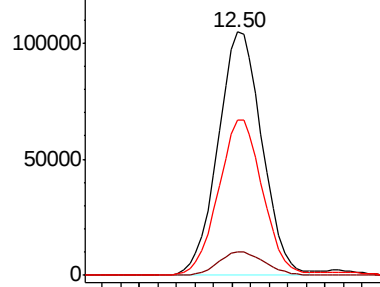
MMDadoda
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Abundance Ion 82.90 (82.60 to 83.60): VN050587.D (-3380) (-)

Ion 130.80 (130.50 to 131.50): VN050587.D (-3380) (-)

Ion 84.90 (84.60 to 85.60): VN050587.D (-3380) (-)



#76

1,2,3-Trichloropropane

Concen: 20.81 ug/l m

RT: 12.55 min Scan# 3410

Delta R.T. 0.00 min

Lab File: VN050693.D

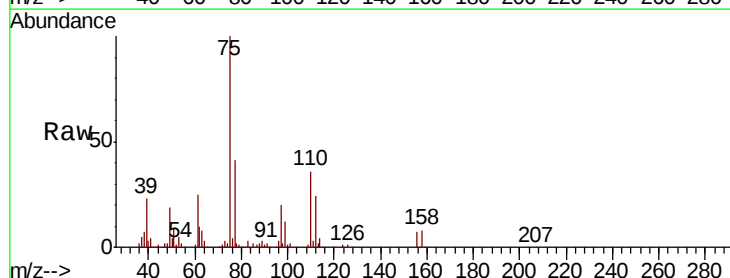
Acq: 16 Aug 2018 11:05

Tgt Ion: 75 Resp: 139743

Ion Ratio Lower Upper

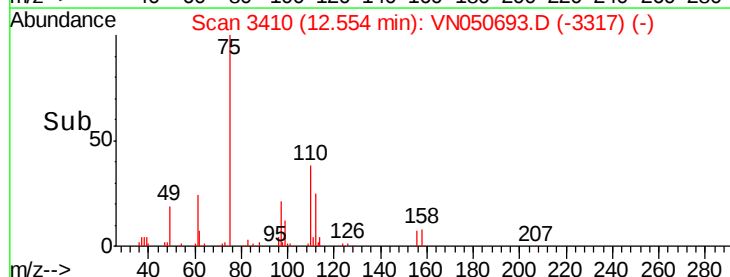
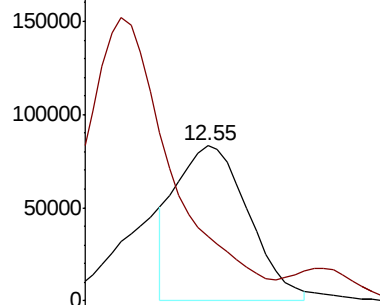
75 100

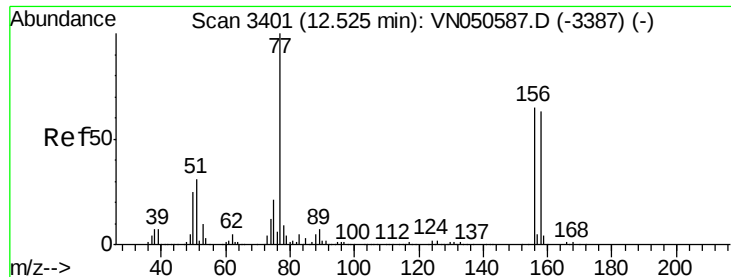
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VN050587.D (-3405) (-)

Ion 77.00 (76.70 to 77.70): VN050587.D (-3405) (-)





#77

Bromobenzene

Concen: 20.04 ug/l

RT: 12.53 min Scan# 3401

Delta R.T. 0.00 min

Lab File: VN050693.D

Acq: 16 Aug 2018 11:05

Instrument :

MSVOA_N

ClientSampleId :

VN0816WBSD01

Tot Ion:156 Resp: 171769

Ion Ratio Lower Upper

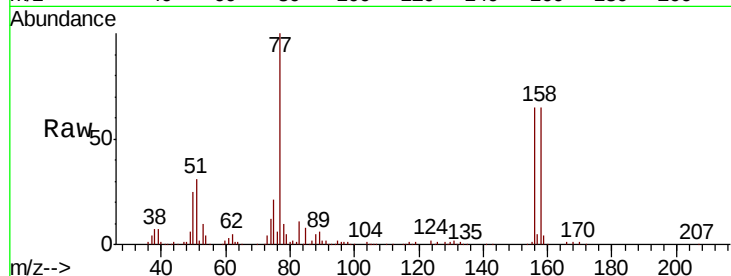
156 100

77 179.3 89.0 267.1

158 97.6 48.5 145.6

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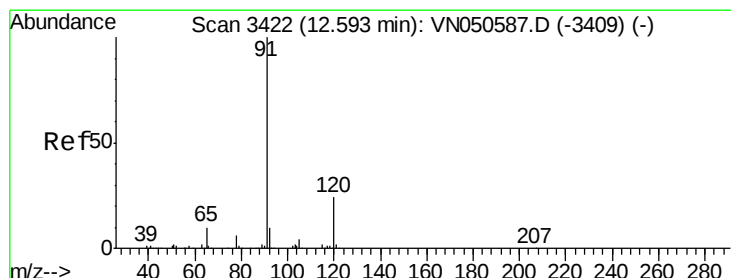
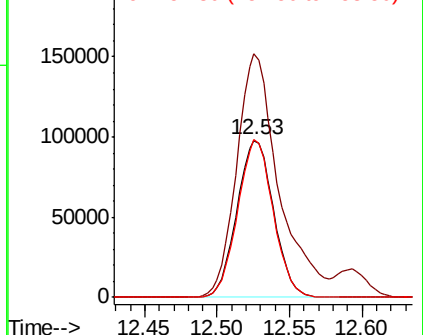
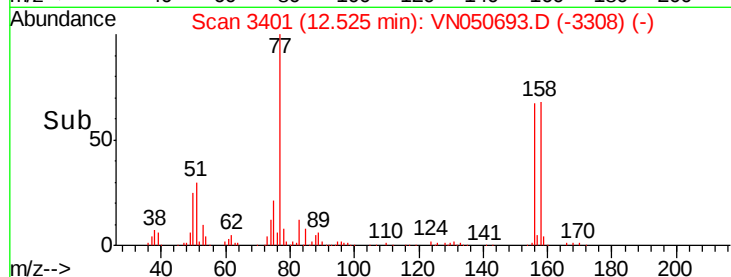
MMDadoda
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Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 20.80 ug/l

RT: 12.59 min Scan# 3422

Delta R.T. 0.00 min

Lab File: VN050693.D

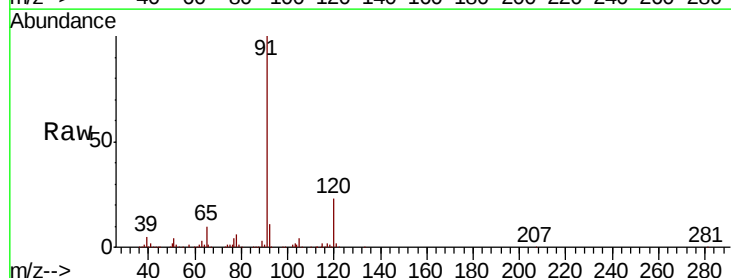
Acq: 16 Aug 2018 11:05

Tgt Ion: 91 Resp: 732088

Ion Ratio Lower Upper

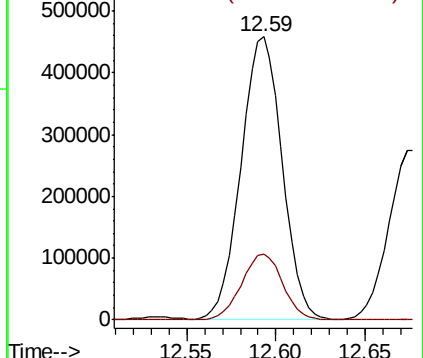
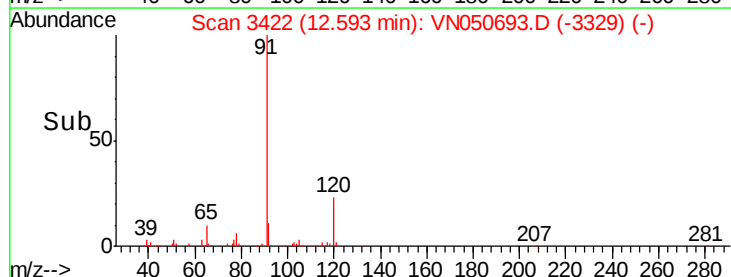
91 100

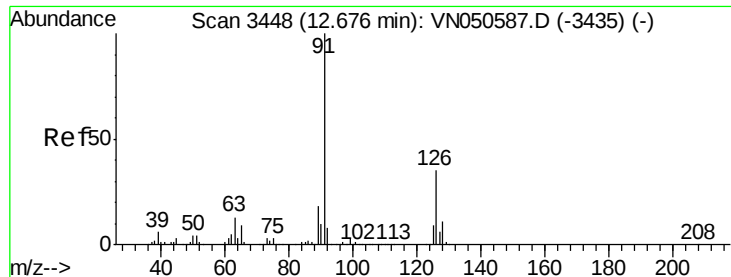
120 23.4 11.8 35.4



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 20.76 ug/l

RT: 12.68 min Scan# 3448

Delta R.T. 0.00 min

Lab File: VN050693.D

Acq: 16 Aug 2018 11:05

Instrument :

MSVOA_N

ClientSampleId :

VN0816WBSD01

Tot Ion: 91 Resp: 45519

Ion Ratio Lower Upper

91 100

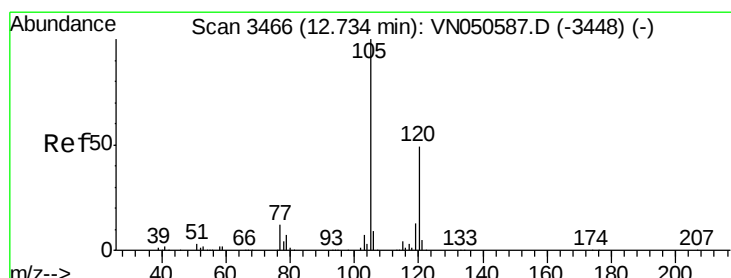
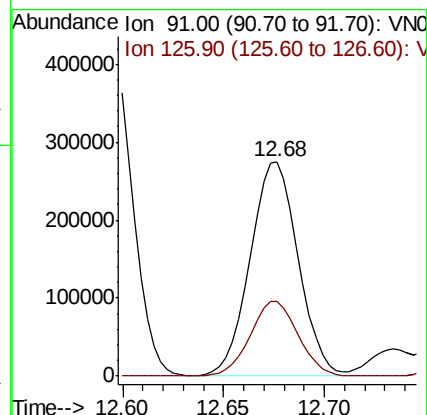
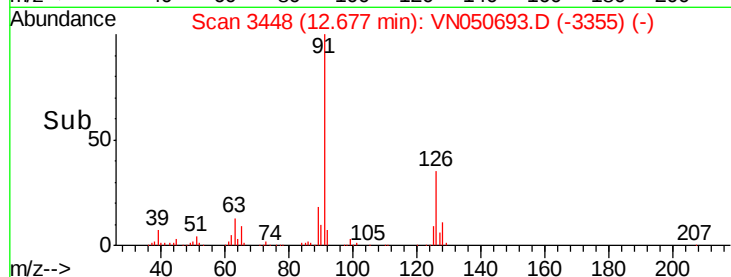
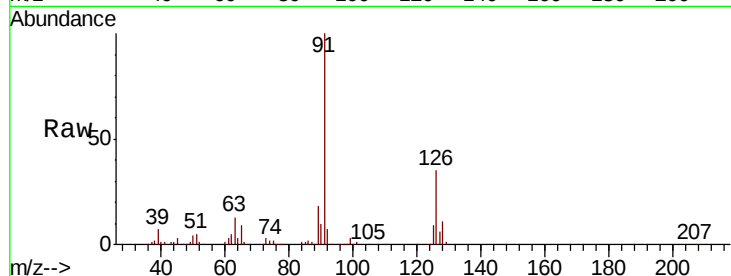
126 35.1 17.6 52.8

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 21.25 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. 0.00 min

Lab File: VN050693.D

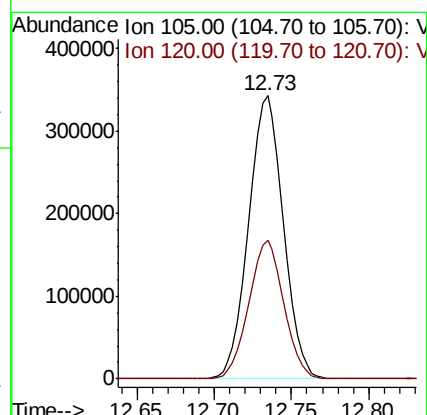
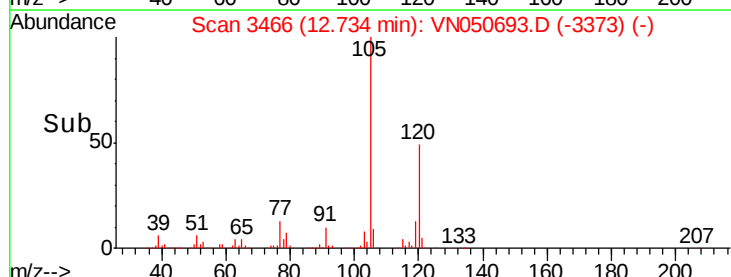
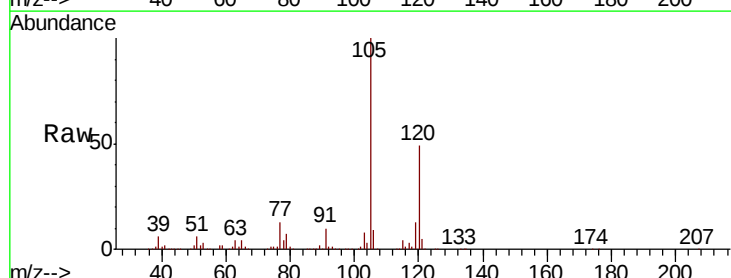
Acq: 16 Aug 2018 11:05

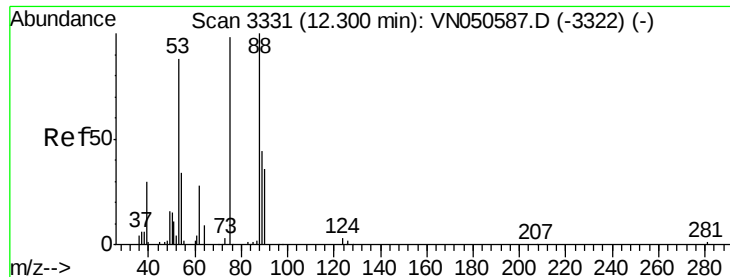
Tgt Ion: 105 Resp: 537015

Ion Ratio Lower Upper

105 100

120 49.1 24.7 74.1





#81

trans-1,4-Dichloro-2-butene

Concen: 21.96 ug/l

RT: 12.30 min Scan# 3331

Delta R.T. 0.00 min

Lab File: VN050693.D

Acq: 16 Aug 2018 11:05

Instrument :

MSVOA_N

ClientSampleId :

VN0816WBSD01

Tot Ion: 75 Resp: 39908

Ion Ratio Lower Upper

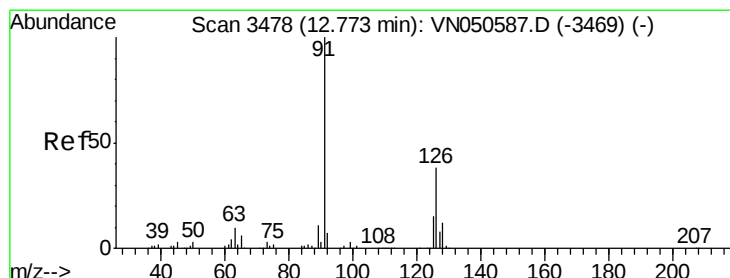
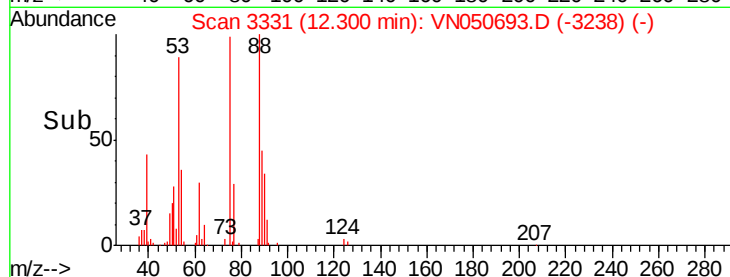
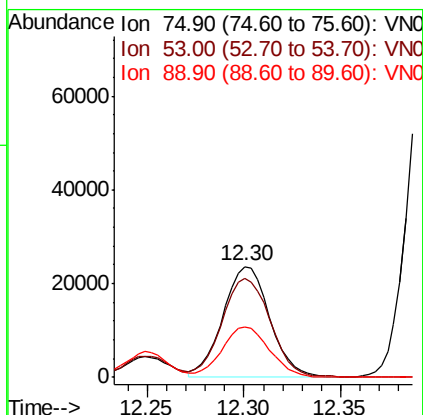
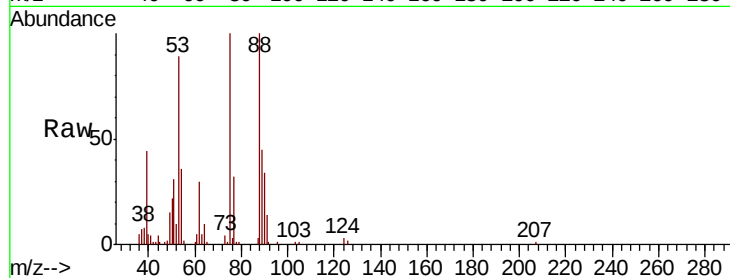
75 100

53 92.6 72.2 108.2

89 46.4 36.3 54.5

Manual Integrations
APPROVED

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#82

4-Chlorotoluene

Concen: 20.71 ug/l

RT: 12.77 min Scan# 3478

Delta R.T. 0.00 min

Lab File: VN050693.D

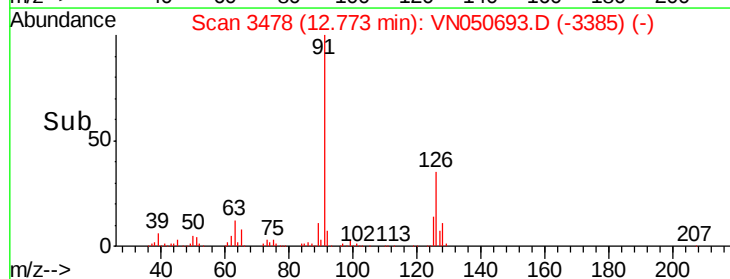
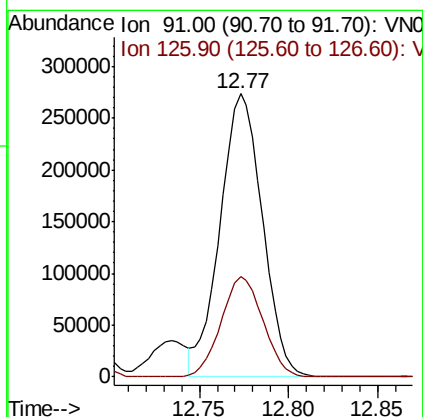
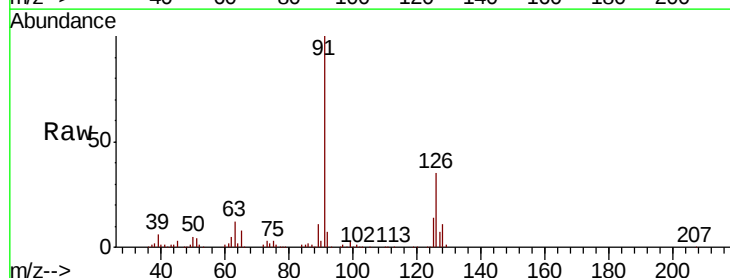
Acq: 16 Aug 2018 11:05

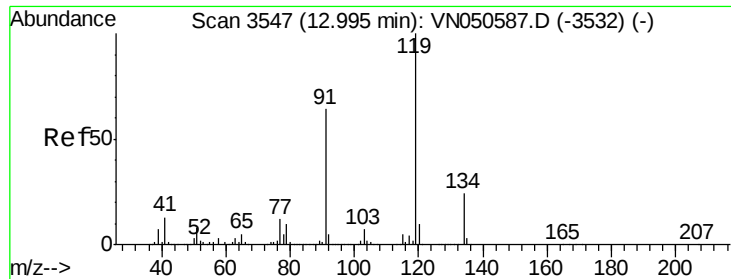
Tgt Ion: 91 Resp: 449049

Ion Ratio Lower Upper

91 100

126 35.2 17.3 52.0





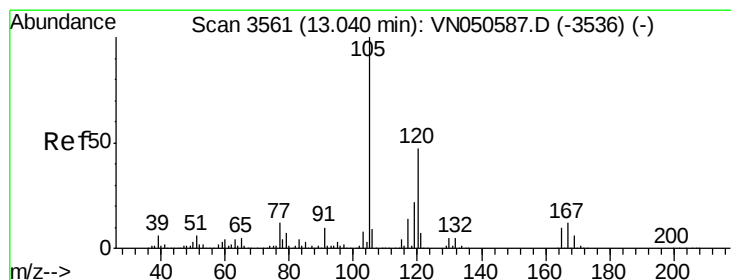
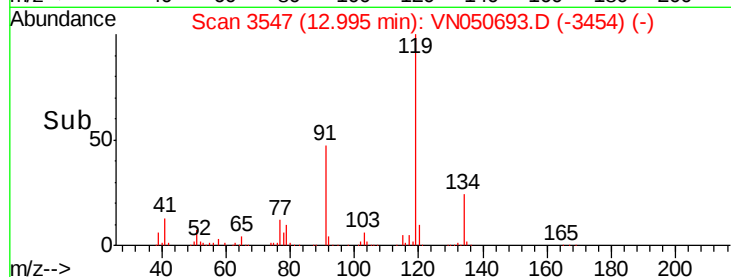
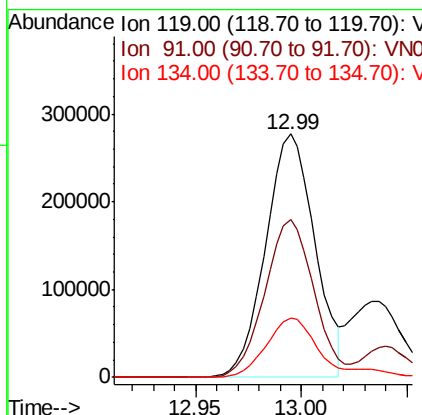
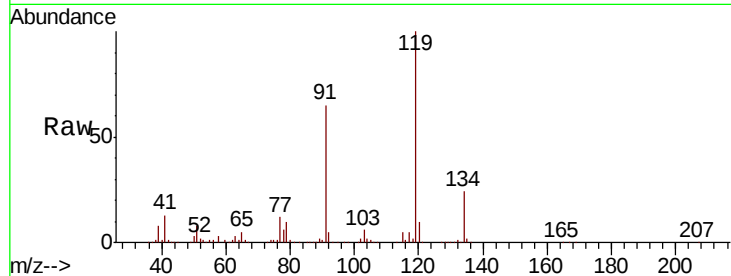
#83
 tert-Butylbenzene
 Concen: 20.54 ug/l
 RT: 12.99 min Scan# 3547
 Delta R.T. 0.00 min
 Lab File: VN050693.D
 Acq: 16 Aug 2018 11:05

Instrument :
 MSVOA_N
 ClientSampled :
 VN0816WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	450582		
91	64.9	32.2	96.6	
134	24.7	13.4	40.2	

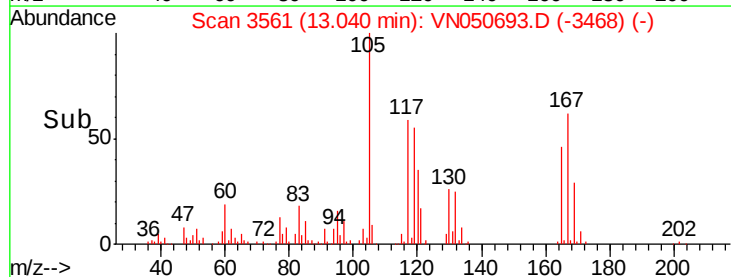
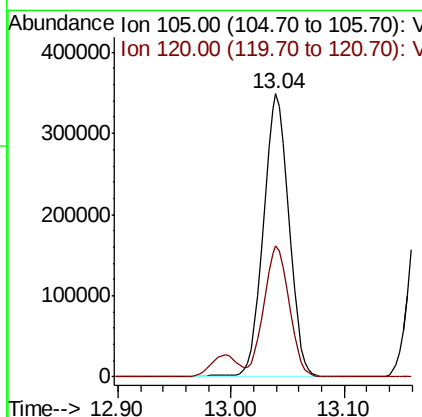
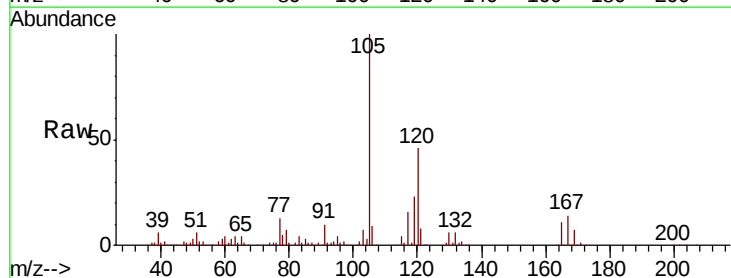
Manual Integrations
 APPROVED

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#84
 1,2,4-Trimethylbenzene
 Concen: 21.53 ug/l
 RT: 13.04 min Scan# 3561
 Delta R.T. 0.00 min
 Lab File: VN050693.D
 Acq: 16 Aug 2018 11:05

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	546208		
120	46.2	23.2	69.5	





#85

sec-Butylbenzene

Concen: 21.00 ug/l

RT: 13.17 min Scan# 3602

Delta R.T. 0.00 min

Lab File: VN050693.D

Acq: 16 Aug 2018 11:05

Instrument :

MSVOA_N

ClientSampleId :

VN0816WBSD01

Tot Ion:105 Resp: 602099

Ion Ratio Lower Upper

105 100

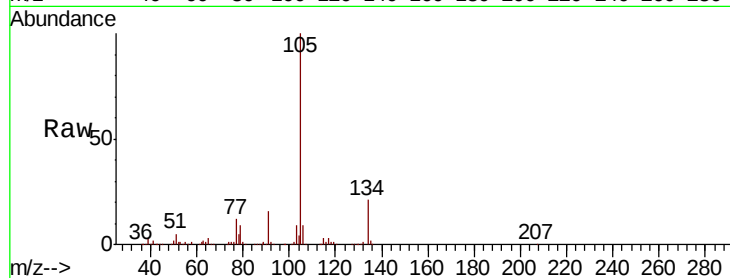
134 20.6 10.1 30.3

Manual Integrations

APPROVED

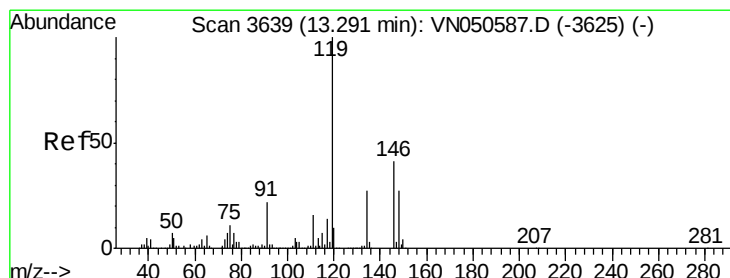
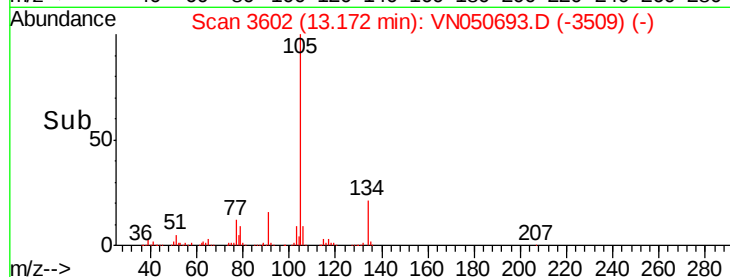
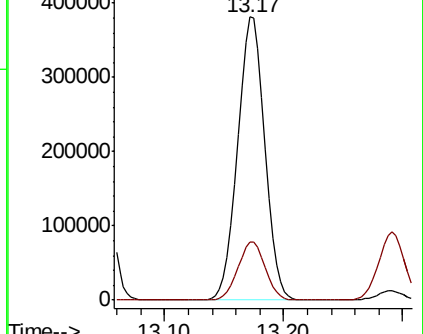
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 21.06 ug/l

RT: 13.29 min Scan# 3639

Delta R.T. 0.00 min

Lab File: VN050693.D

Acq: 16 Aug 2018 11:05

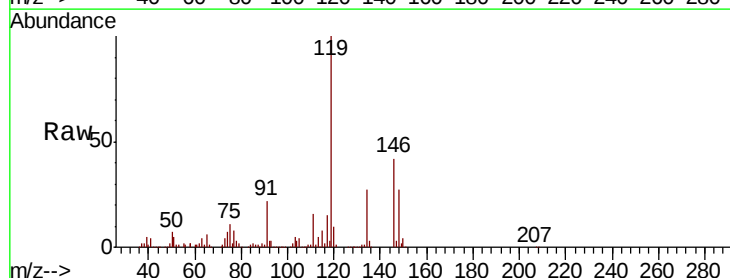
Tgt Ion:119 Resp: 511625

Ion Ratio Lower Upper

119 100

134 26.9 13.5 40.4

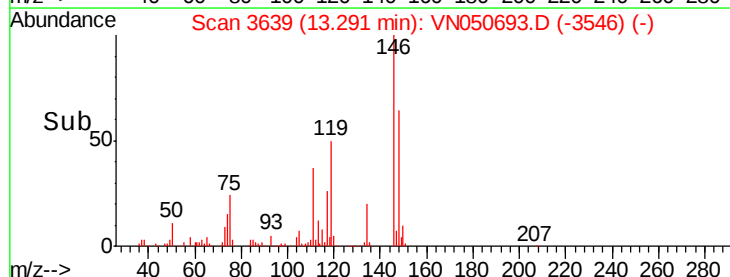
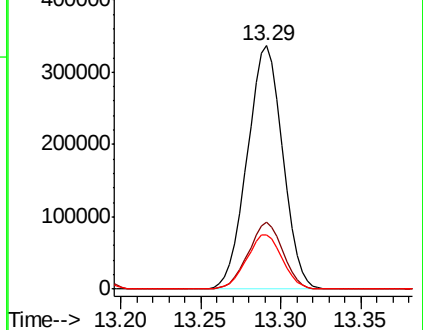
91 22.4 11.2 33.6

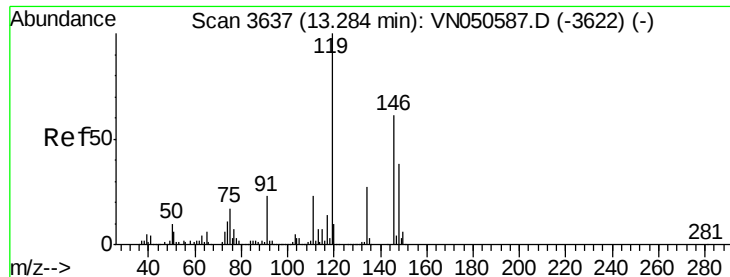


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





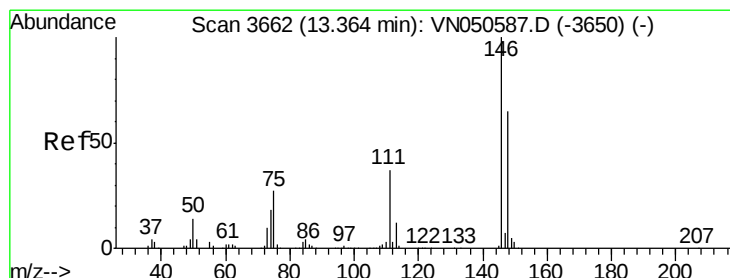
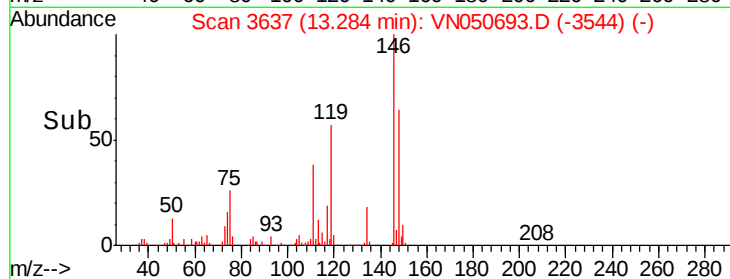
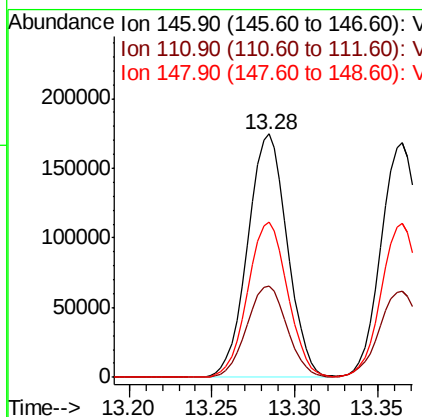
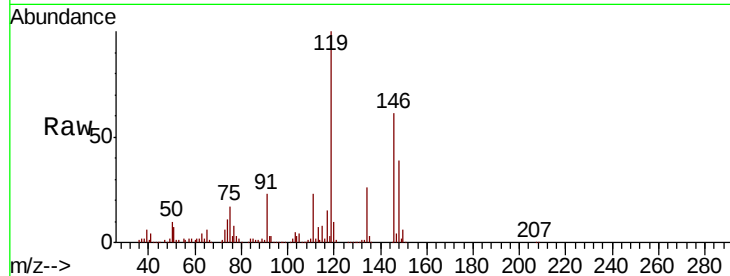
#87
 1,3-Dichlorobenzene
 Concen: 19.94 ug/l
 RT: 13.28 min Scan# 3637
 Delta R.T. 0.00 min
 Lab File: VN050693.D
 Acq: 16 Aug 2018 11:05

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0816WBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.2	19.2	57.6
148	64.3	31.9	95.7

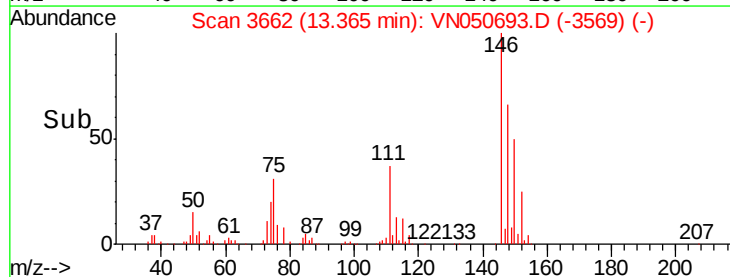
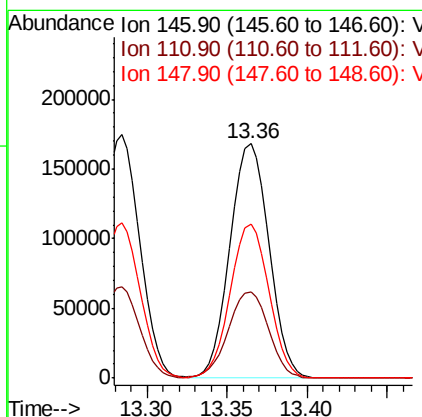
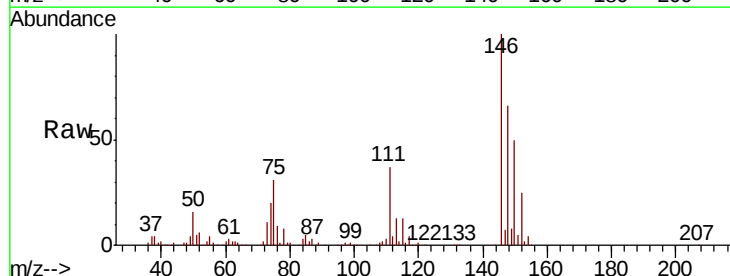
Manual Integrations
 APPROVED

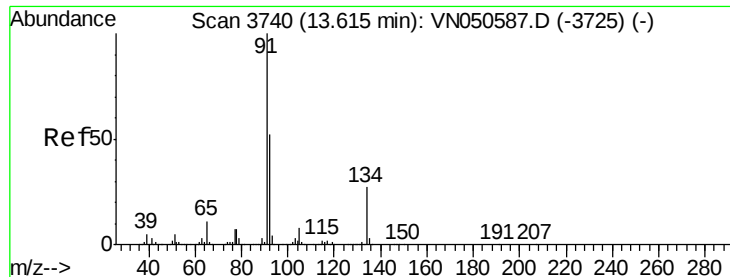
MMDadoda
 8/17/2018 3:55:34 PM



#88
 1,4-Dichlorobenzene
 Concen: 19.32 ug/l
 RT: 13.36 min Scan# 3662
 Delta R.T. 0.00 min
 Lab File: VN050693.D
 Acq: 16 Aug 2018 11:05

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.1	18.8	56.4
148	64.9	32.3	96.8





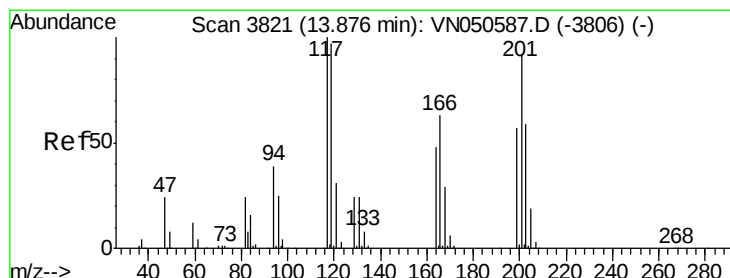
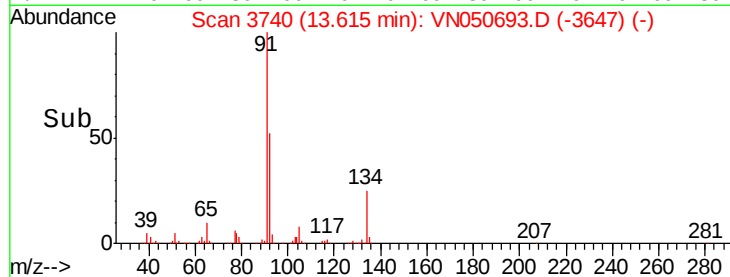
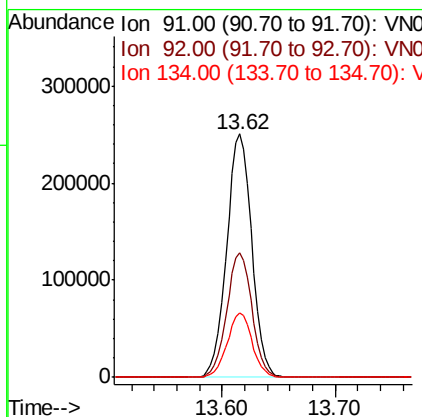
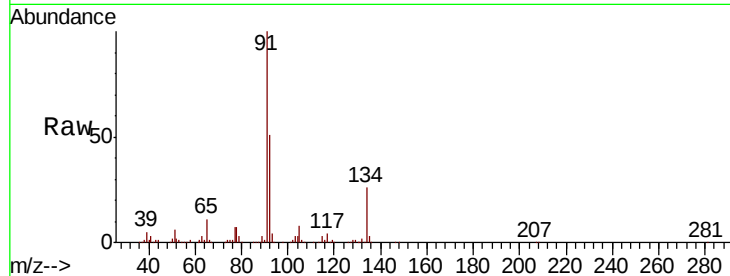
#89
n-Butylbenzene
Concen: 19.68 ug/l
RT: 13.62 min Scan# 3740
Delta R.T. 0.00 min
Lab File: VN050693.D
Acq: 16 Aug 2018 11:05

Instrument :
MSVOA_N
ClientSampleId :
VN0816WBSD01

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.2	26.3	78.8
134	26.3	13.3	39.9

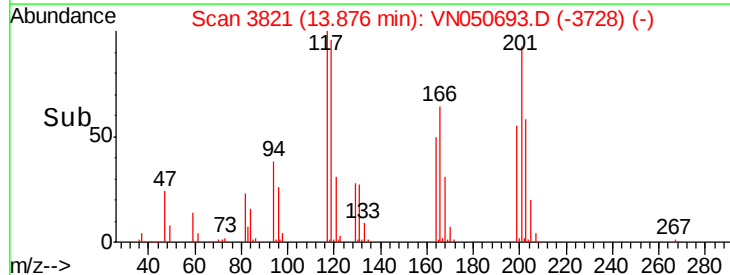
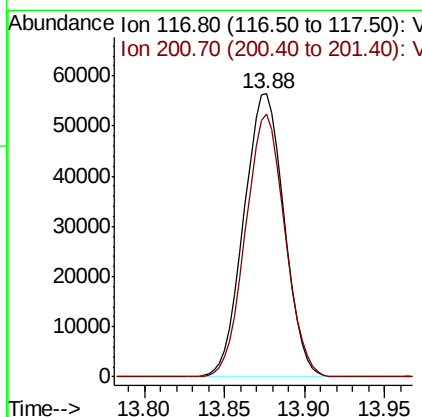
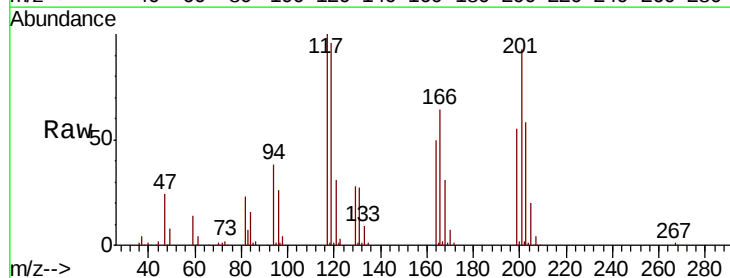
Manual Integrations
APPROVED

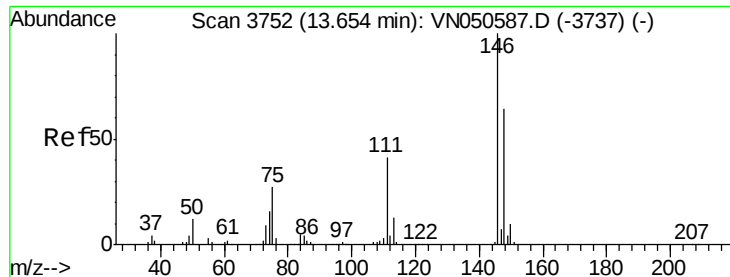
MMDadoda
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#90
Hexachloroethane
Concen: 19.99 ug/l
RT: 13.88 min Scan# 3821
Delta R.T. 0.00 min
Lab File: VN050693.D
Acq: 16 Aug 2018 11:05

Tgt Ion	Ratio	Lower	Upper
117	100		
201	90.4	45.5	136.5





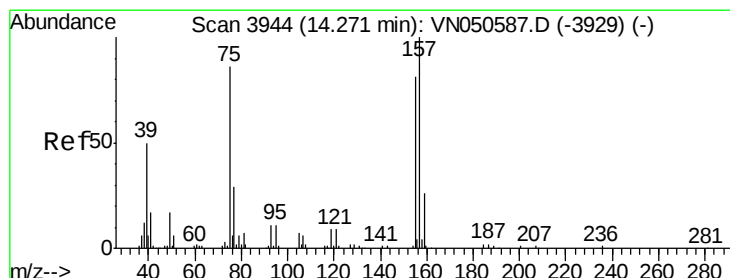
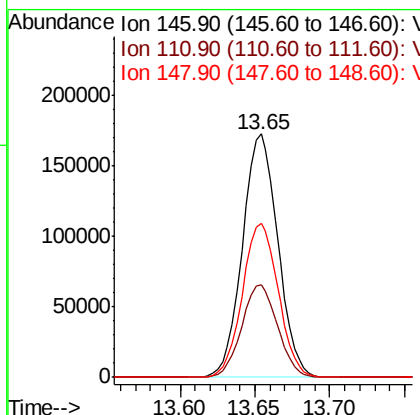
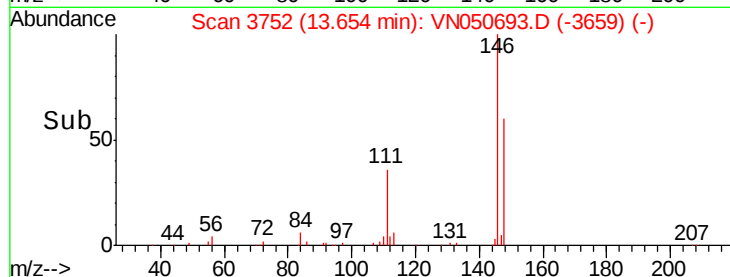
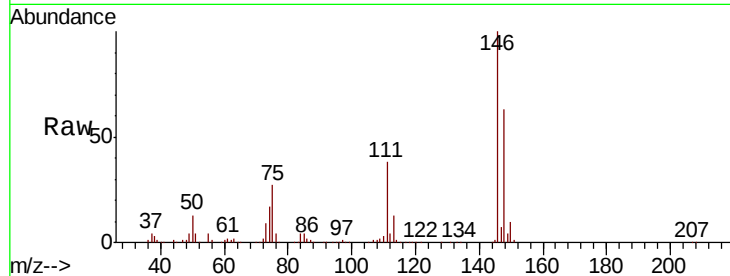
#91
 1,2-Dichlorobenzene
 Concen: 20.04 ug/l
 RT: 13.65 min Scan# 3752
 Delta R.T. 0.00 min
 Lab File: VN050693.D
 Acq: 16 Aug 2018 11:05

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0816WBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.6	19.8	59.4
148	64.0	32.3	96.8

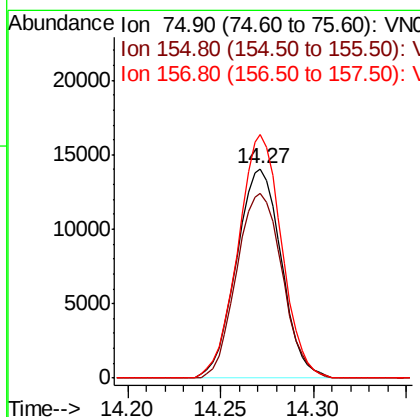
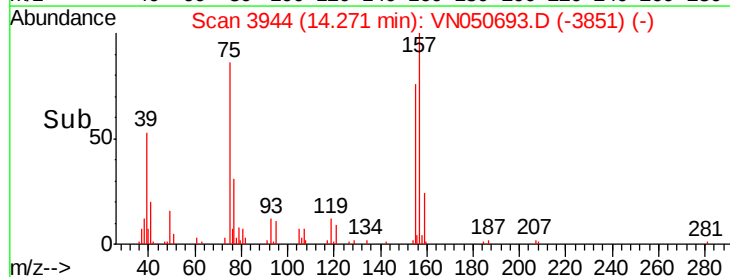
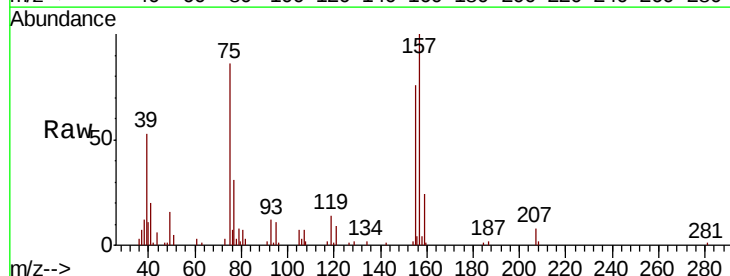
Manual Integrations
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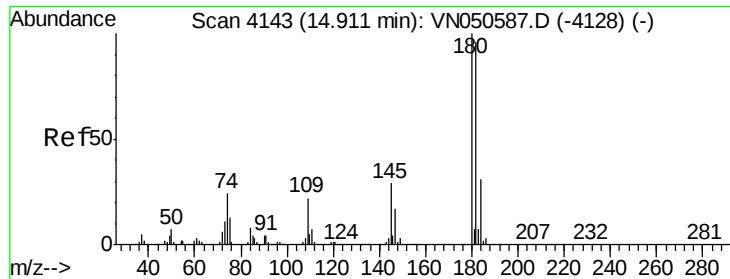
MMDadoda
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 21.08 ug/l
 RT: 14.27 min Scan# 3944
 Delta R.T. 0.00 min
 Lab File: VN050693.D
 Acq: 16 Aug 2018 11:05

Tgt Ion	Ratio	Lower	Upper
75	100		
155	89.7	46.6	139.8
157	112.7	58.1	174.2





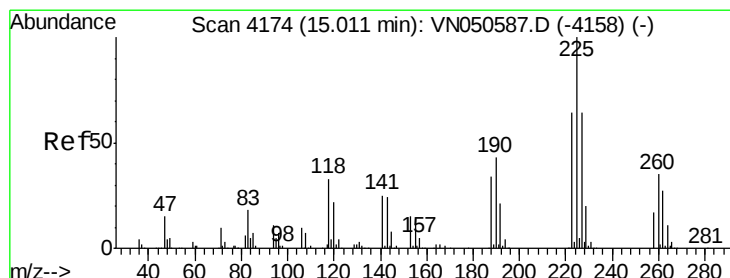
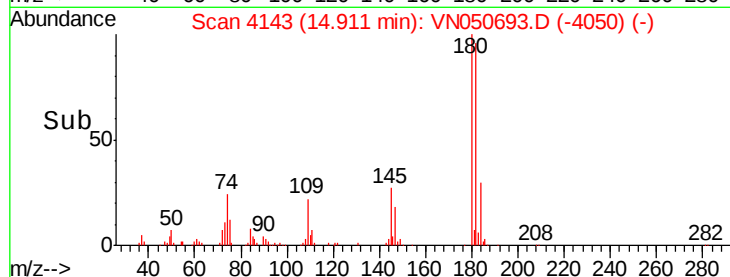
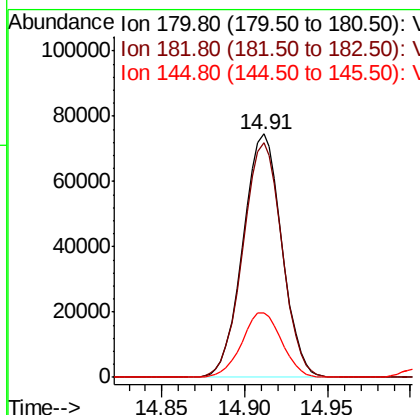
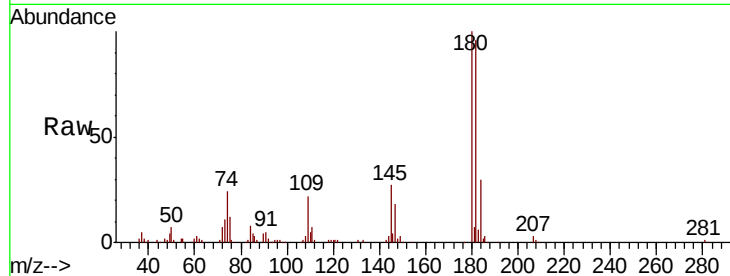
#93
 1,2,4-Trichlorobenzene
 Concen: 18.40 ug/l
 RT: 14.91 min Scan# 4143
 Delta R.T. 0.00 min
 Lab File: VN050693.D
 Acq: 16 Aug 2018 11:05

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0816WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	121402		
182	97.1	47.9	143.7	
145	27.3	14.4	43.4	

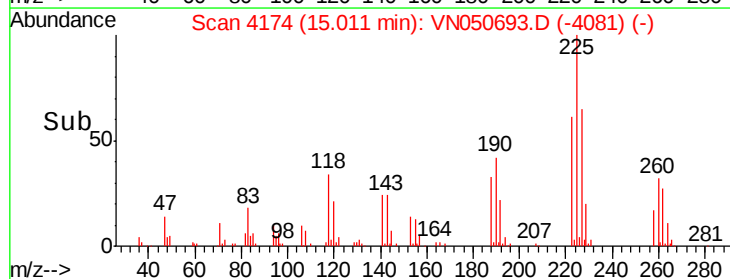
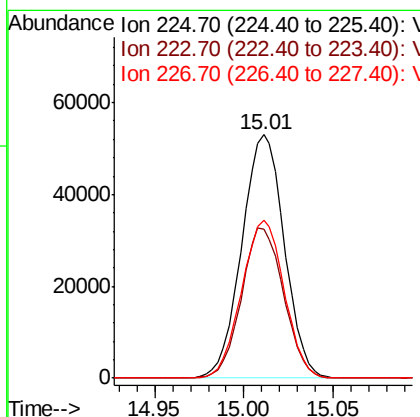
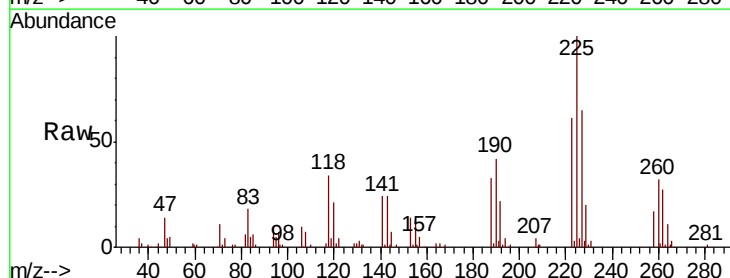
Manual Integrations
 APPROVED

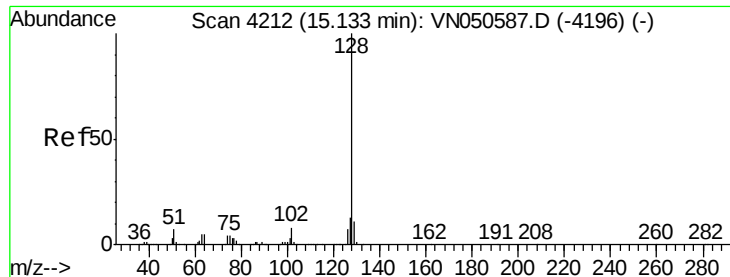
MMDadoda
 8/17/2018 3:55:34 PM



#94
 Hexachlorobutadiene
 Concen: 20.16 ug/l
 RT: 15.01 min Scan# 4174
 Delta R.T. 0.00 min
 Lab File: VN050693.D
 Acq: 16 Aug 2018 11:05

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	87964		
223	61.3	32.1	96.3	
227	64.9	32.0	96.2	





#95

Naphthalene

Concen: 17.97 ug/l

RT: 15.13 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN050693.D

Acq: 16 Aug 2018 11:05

Instrument :

MSVOA_N

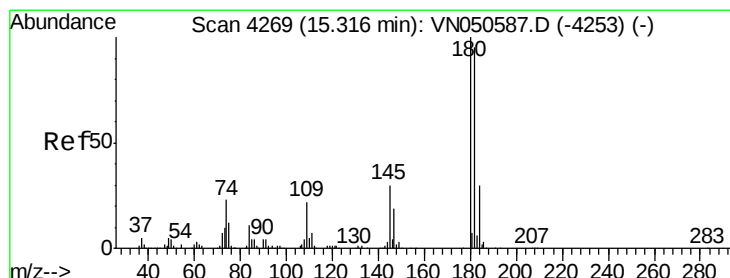
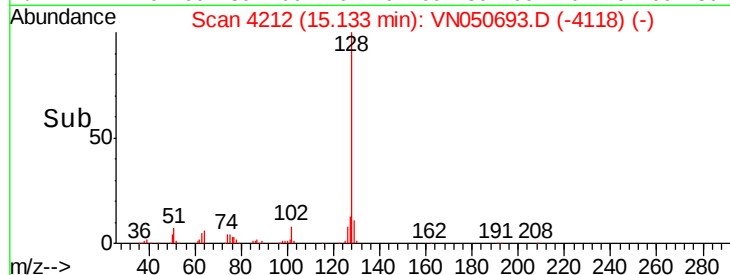
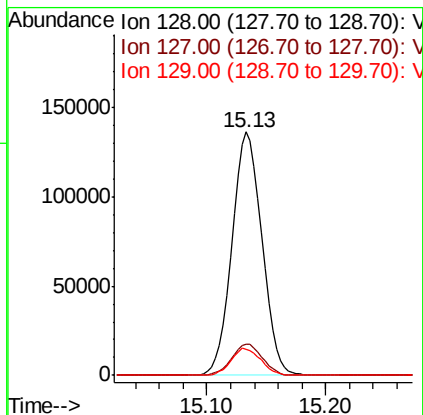
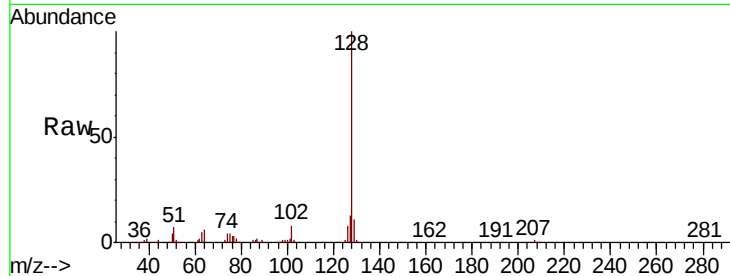
ClientSampleId :

VN0816WBSD01

Tot Ion:	128	Resp:	237688
Ion Ratio	Lower	Upper	
128	100		
127	13.0	10.3	15.5
129	11.0	8.5	12.7

Manual Integrations
APPROVED

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8/17/2018 3:55:34 PM



#96

1,2,3-Trichlorobenzene

Concen: 19.26 ug/l

RT: 15.31 min Scan# 4268

Delta R.T. -0.00 min

Lab File: VN050693.D

Acq: 16 Aug 2018 11:05

Tgt Ion:	180	Resp:	122991
Ion Ratio	Lower	Upper	
180	100		
182	95.1	47.3	141.8
145	29.5	14.6	44.0

