

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082318\
 Data File : VN050858.D
 Acq On : 23 Aug 2018 17:25
 Operator : MD\SY
 Sample : VN0823MBS01
 Misc : 5.00µg/10mL/100µL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0823MBS01

Manual Integrations
 APPROVED

MMDadoda
 8/24/2018 10:41:09 AM

Quant Time: Aug 24 04:48:40 2018
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082118W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 22 05:38:12 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	596033	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	874199	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	787232	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	383448	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	363351	50.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.28%	
35) Dibromofluoromethane	7.59	113	335961	48.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.62%	
50) Toluene-d8	10.09	98	1266015	48.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.38%	
62) 4-Bromofluorobenzene	12.40	95	414284	47.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.90%	

Target Compounds				Qvalue		
2) Dichlorodifluoromethane	1.85	85	165133	20.70	ug/l	99
3) Chloromethane	2.06	50	186632	18.97	ug/l	100
4) Vinyl Chloride	2.18	62	181671	19.49	ug/l	98
5) Bromomethane	2.56	94	101702	18.53	ug/l	97
6) Chloroethane	2.70	64	101447	18.84	ug/l	99
7) Trichlorofluoromethane	3.01	101	227794	19.09	ug/l	99
8) Diethyl Ether	3.41	74	78583	19.37	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	3.76	101	142401	19.10	ug/l	100
10) Methyl Iodide	3.95	142	99778	19.66	ug/l	98
11) Tert butyl alcohol	4.79	59	51383	112.46	ug/l	99
12) 1,1-Dichloroethene	3.74	96	128532	19.20	ug/l	97
13) Acrolein	3.61	56	20452	89.07	ug/l	98
14) Allyl chloride	4.32	41	197872	18.97	ug/l	99
15) Acrylonitrile	4.99	53	244231	105.18	ug/l	98
16) Acetone	3.82	43	181221	102.49	ug/l	98
17) Carbon Disulfide	4.05	76	389208	17.34	ug/l	100
18) Methyl Acetate	4.33	43	144328	21.30	ug/l	98
19) Methyl tert-butyl Ether	5.05	73	347913	20.66	ug/l	97
20) Methylene Chloride	4.55	84	151830	18.77	ug/l	98
21) trans-1,2-Dichloroethene	5.04	96	136039	18.79	ug/l	95
22) Diisopropyl ether	5.96	45	425487	20.47	ug/l	99
23) Vinyl Acetate	5.90	43	1354936	101.21	ug/l	100
24) 1,1-Dichloroethane	5.85	63	256337	19.21	ug/l	98
25) 2-Butanone	6.84	43	274883	95.06	ug/l	96
26) 2,2-Dichloropropane	6.83	77	204120	19.03	ug/l	100
27) cis-1,2-Dichloroethene	6.83	96	151173	19.37	ug/l	99
28) Bromochloromethane	7.20	49	108420	19.12	ug/l	99
29) Tetrahydrofuran	7.22	42	180837	109.08	ug/l	99
30) Chloroform	7.37	83	255756	19.35	ug/l	100
31) Cyclohexane	7.66	56	225940	18.92	ug/l	98
32) 1,1,1-Trichloroethane	7.57	97	222260	19.58	ug/l	99
36) 1,1-Dichloropropene	7.79	75	192880	18.70	ug/l	99
37) Ethyl Acetate	6.93	43	124367	20.99	ug/l	97
38) Carbon Tetrachloride	7.78	117	193151	18.52	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	196737	17.63	ug/l	97
40) Benzene	8.04	78	592388	19.04	ug/l	99
41) Methacrylonitrile	7.17	41	56383	17.58	ug/l	90
42) 1,2-Dichloroethane	8.13	62	183935	19.78	ug/l	99
43) Isopropyl Acetate	8.17	43	229189	22.49	ug/l	95
44) Trichloroethene	8.84	130	153998	18.77	ug/l	100
45) 1,2-Dichloropropane	9.12	63	155356	19.00	ug/l	100
46) Dibromomethane	9.21	93	93469	19.46	ug/l	100
47) Bromodichloromethane	9.40	83	193389	19.22	ug/l	99
48) Methyl methacrylate	9.20	41	102838	19.80	ug/l	98
49) 1,4-Dioxane	9.20	88	29504	416.80	ug/l	97
51) 4-Methyl-2-Pentanone	9.99	43	608799	100.13	ug/l	100
52) Toluene	10.16	92	360358	19.56	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	190018	18.97	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	220591	19.24	ug/l	98
55) 1,1,2-Trichloroethane	10.56	97	134924	19.73	ug/l	99
56) Ethyl methacrylate	10.43	69	158479	19.32	ug/l	99
57) 1,3-Dichloropropane	10.71	76	224096	19.85	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	350543	98.10	ug/l	99
59) 2-Hexanone	10.75	43	399720	98.75	ug/l	98
60) Dibromochloromethane	10.90	129	147782	19.30	ug/l	99
61) 1,2-Dibromoethane	11.01	107	131562	19.89	ug/l	99
64) Tetrachloroethene	10.63	164	138615	18.54	ug/l	99
65) Chlorobenzene	11.43	112	391051	19.00	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	146574	19.47	ug/l	99
67) Ethyl Benzene	11.51	91	641004	19.16	ug/l	100
68) m/p-Xylenes	11.62	106	508576	40.05	ug/l	99
69) o-Xylene	11.95	106	240138	19.67	ug/l	100
70) Styrene	11.97	104	375038	18.26	ug/l	99
71) Bromoform	12.13	173	102409	19.78	ug/l	# 100
73) Isopropylbenzene	12.25	105	634993	20.00	ug/l	100
74) N-amyl acetate	12.07	43	166366	20.85	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.50	83	171540	21.74	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	146958m	21.88	ug/l	
77) Bromobenzene	12.53	156	164951	19.12	ug/l	98
78) n-propylbenzene	12.59	91	709412	20.00	ug/l	100
79) 2-Chlorotoluene	12.68	91	435441	19.71	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	526629	20.56	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	42029	21.16	ug/l	98
82) 4-Chlorotoluene	12.77	91	433247	19.86	ug/l	99
83) tert-Butylbenzene	12.99	119	438723	19.77	ug/l	98
84) 1,2,4-Trimethylbenzene	13.04	105	529591	20.55	ug/l	100
85) sec-Butylbenzene	13.17	105	586937	20.19	ug/l	99
86) p-Isopropyltoluene	13.29	119	503703	20.33	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	275761	18.83	ug/l	100
88) 1,4-Dichlorobenzene	13.36	146	267302	18.55	ug/l	99
89) n-Butylbenzene	13.62	91	374053	18.88	ug/l	99
90) Hexachloroethane	13.88	117	94531	20.13	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	274665	19.44	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	23764	20.84	ug/l	98

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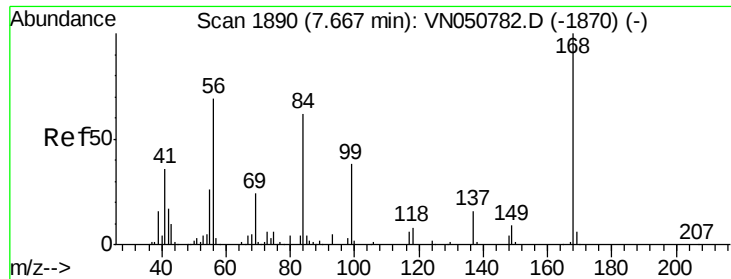
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	106886	17.44	ug/l	99
94) Hexachlorobutadiene	15.01	225	83412	19.23	ug/l	98
95) Naphthalene	15.13	128	217657	18.07	ug/l	99
96) 1,2,3-Trichlorobenzene	15.32	180	114345	18.80	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: VN050858.D

Acq: 23 Aug 2018 17:25

Instrument :

MSVOA_N

ClientSampled :

VN0823MBS01

Tot Ion:168 Resp: 596033

Ion Ratio Lower Upper

168 100

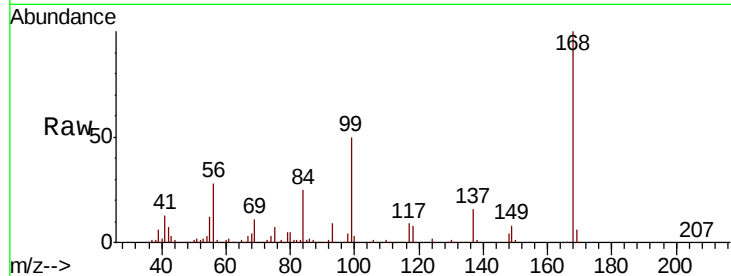
99 49.9 39.6 59.4

Manual Integrations

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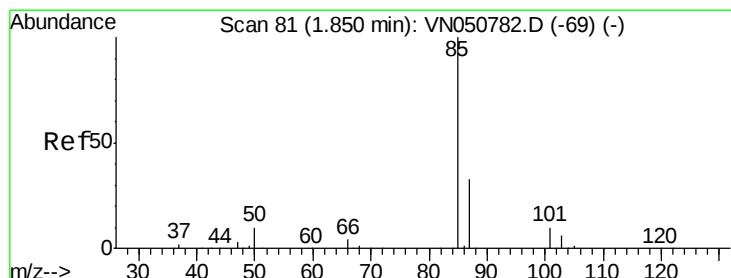
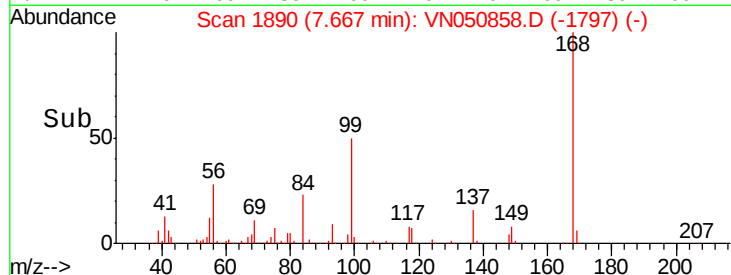
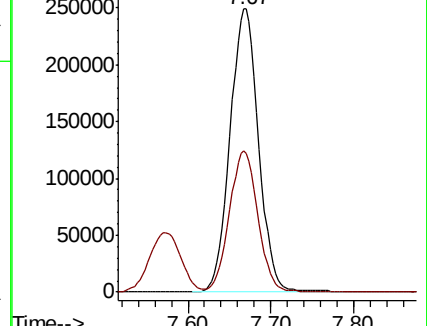
MMDadoda

8/24/2018 10:41:09 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#2

Dichlorodifluoromethane

Concen: 20.70 ug/l

RT: 1.85 min Scan# 81

Delta R.T. 0.00 min

Lab File: VN050858.D

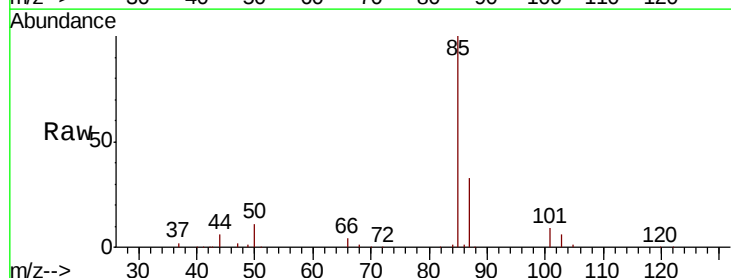
Acq: 23 Aug 2018 17:25

Tgt Ion: 85 Resp: 165133

Ion Ratio Lower Upper

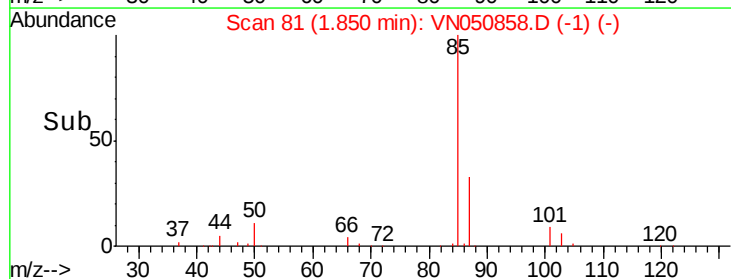
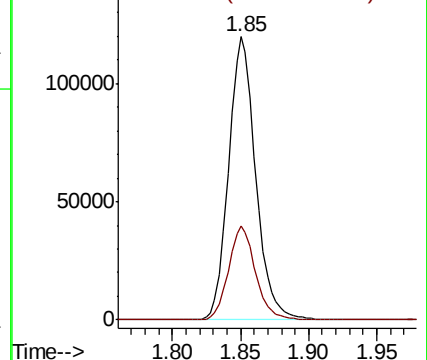
85 100

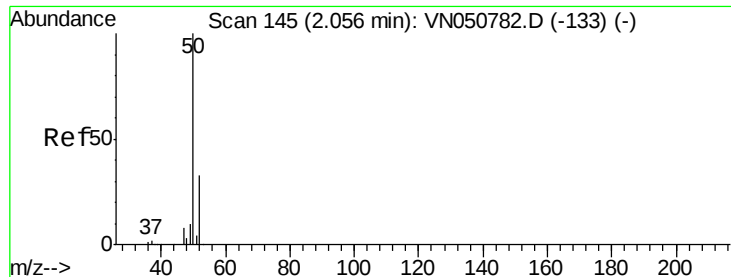
87 33.1 16.4 49.1



Abundance Ion 84.90 (84.60 to 85.60): VN0

Ion 86.90 (86.60 to 87.60): VN0





#3

Chloromethane

Concen: 18.97 ug/l

RT: 2.06 min Scan# 145

Delta R.T. -0.00 min

Lab File: VN050858.D

Acq: 23 Aug 2018 17:25

Instrument :

MSVOA_N

ClientSampleId :

VN0823MBS01

Tot Ion: 50 Resp: 186632

Ion Ratio Lower Upper

50 100

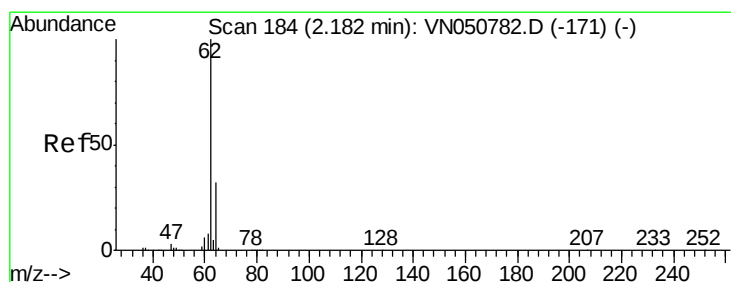
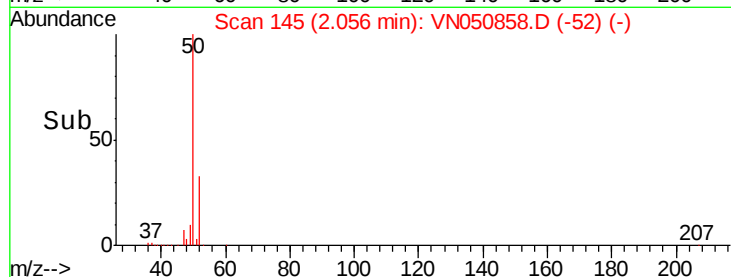
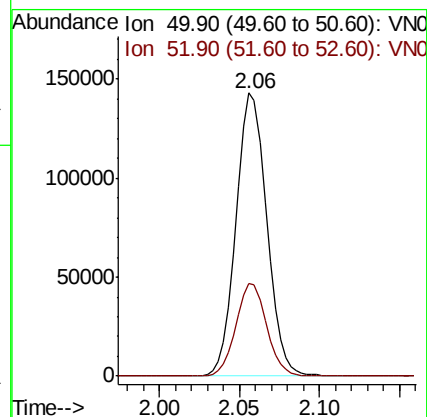
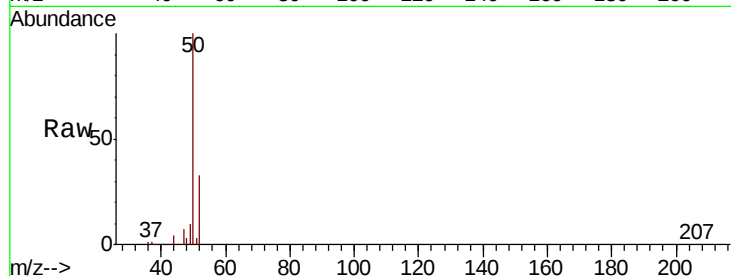
52 32.7 26.3 39.5

Manual Integrations

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#4

Vinyl Chloride

Concen: 19.49 ug/l

RT: 2.18 min Scan# 184

Delta R.T. -0.00 min

Lab File: VN050858.D

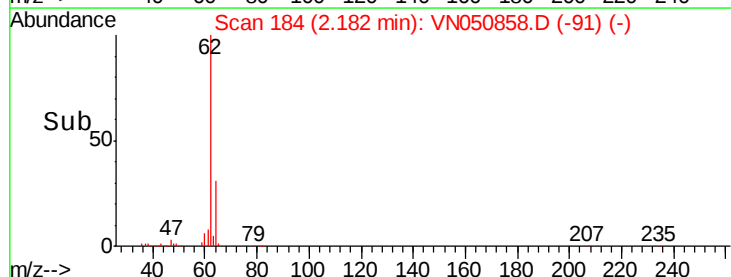
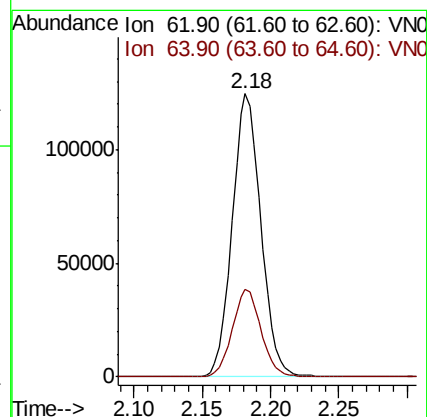
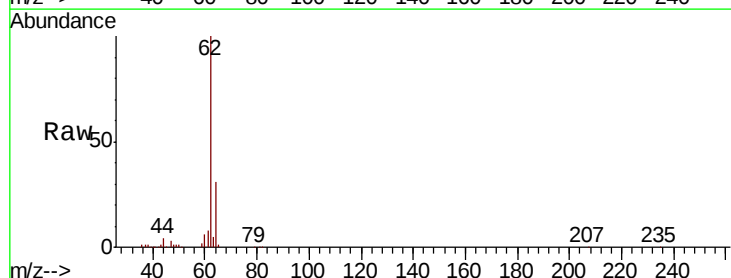
Acq: 23 Aug 2018 17:25

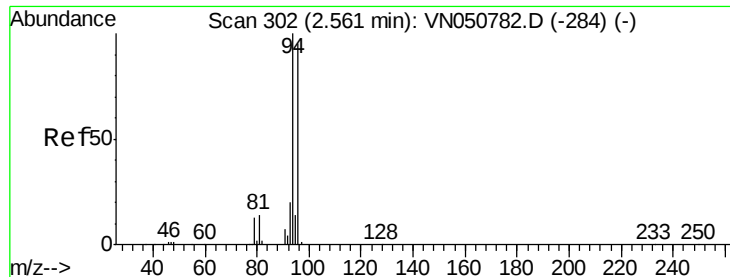
Tgt Ion: 62 Resp: 181671

Ion Ratio Lower Upper

62 100

64 30.9 25.4 38.2





#5

Bromomethane

Concen: 18.53 ug/l

RT: 2.56 min Scan# 303

Delta R.T. 0.00 min

Lab File: VN050858.D

Acq: 23 Aug 2018 17:25

Instrument :

MSVOA_N

ClientSampleId :

VN0823MBS01

Tot Ion: 94 Resp: 101702

Ion Ratio Lower Upper

94 100

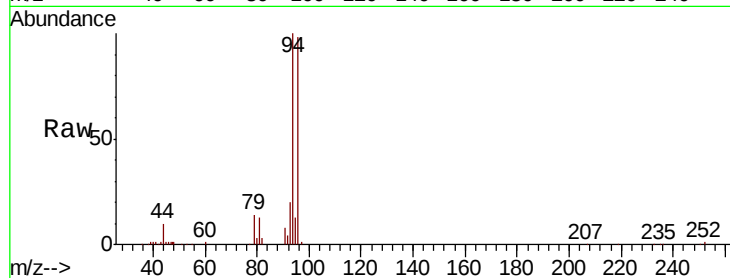
96 97.9 76.2 114.2

Manual Integrations

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Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

60000

50000

40000

30000

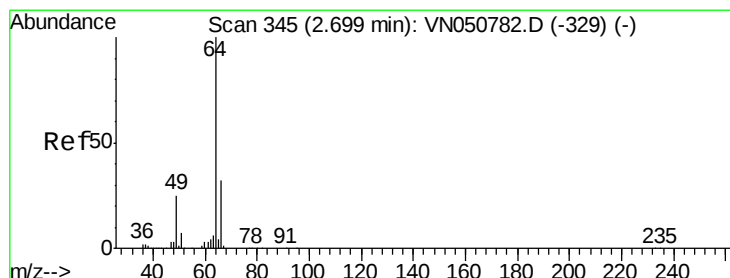
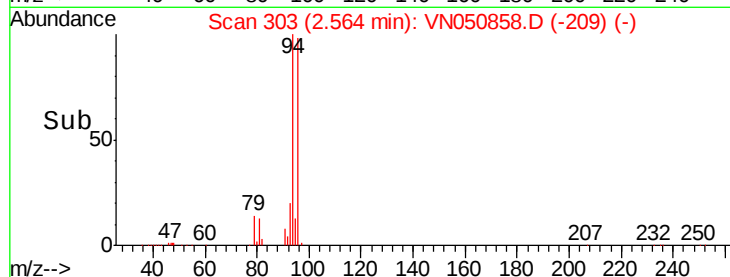
20000

10000

0

2.50 2.55 2.60 2.65

Time-->



#6

Chloroethane

Concen: 18.84 ug/l

RT: 2.70 min Scan# 345

Delta R.T. -0.00 min

Lab File: VN050858.D

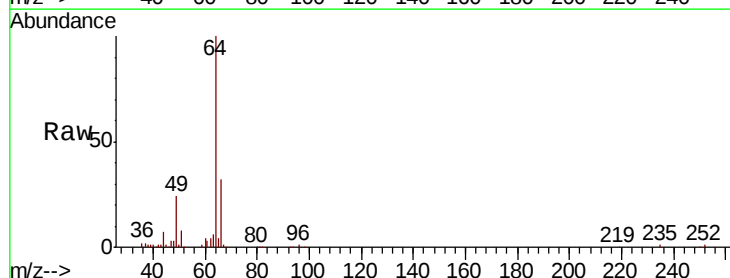
Acq: 23 Aug 2018 17:25

Tgt Ion: 64 Resp: 101447

Ion Ratio Lower Upper

64 100

66 32.0 25.3 37.9



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0

60000

50000

40000

30000

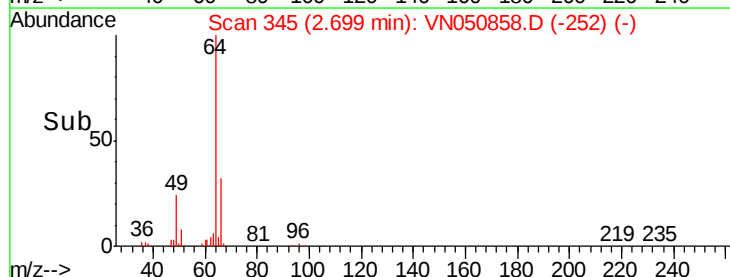
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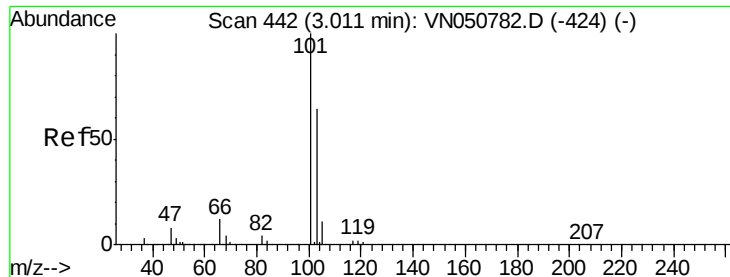
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0

2.60 2.65 2.70 2.75 2.80

Time-->





#7

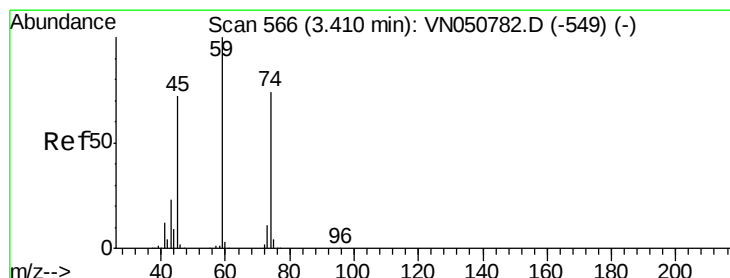
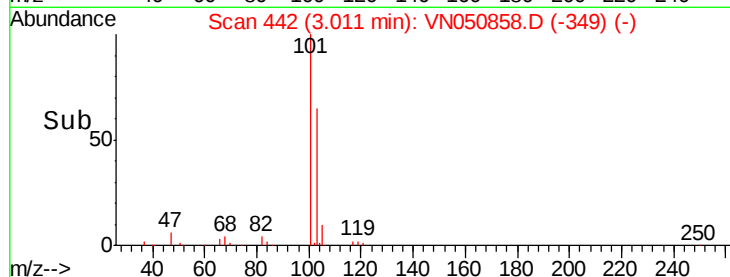
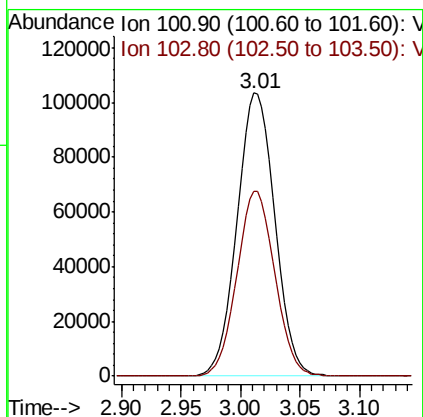
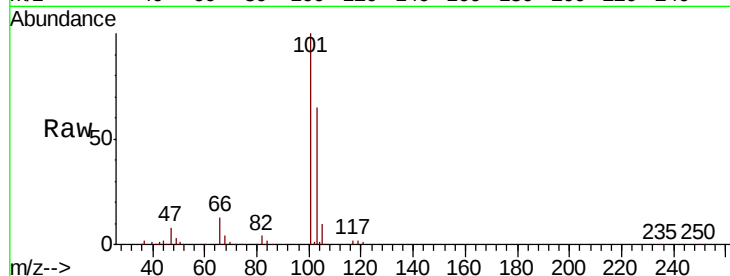
Trichlorofluoromethane
 Concen: 19.09 ug/l
 RT: 3.01 min Scan# 442
 Delta R.T. -0.00 min
 Lab File: VN050858.D
 Acq: 23 Aug 2018 17:25

Instrument :
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 VN0823MBS01

Tot Ion	Ratio	Resp	Lower	Upper
101	100	227794		
103	65.4	51.6	77.4	

Manual Integrations
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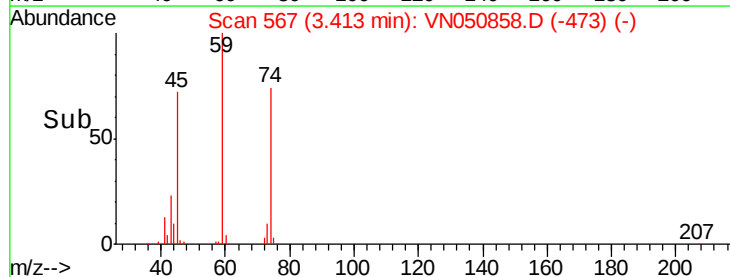
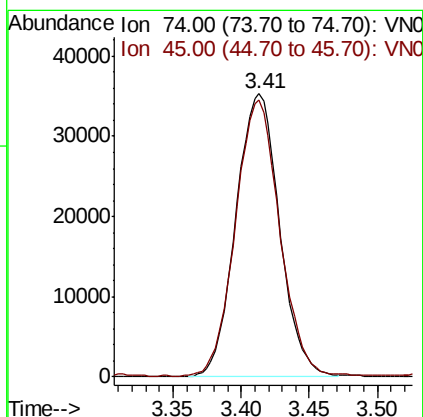
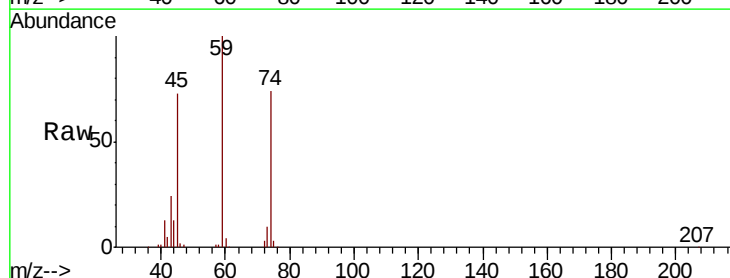
MMDadoda
 8/24/2018 10:41:09 AM



#8

Diethyl Ether
 Concen: 19.37 ug/l
 RT: 3.41 min Scan# 567
 Delta R.T. 0.00 min
 Lab File: VN050858.D
 Acq: 23 Aug 2018 17:25

Tgt Ion	Ratio	Resp	Lower	Upper
74	100	78583		
45	99.5	48.2	144.6	





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.10 ug/l

RT: 3.76 min Scan# 674

Delta R.T. -0.00 min

Lab File: VN050858.D

Acq: 23 Aug 2018 17:25

Instrument :

MSVOA_N

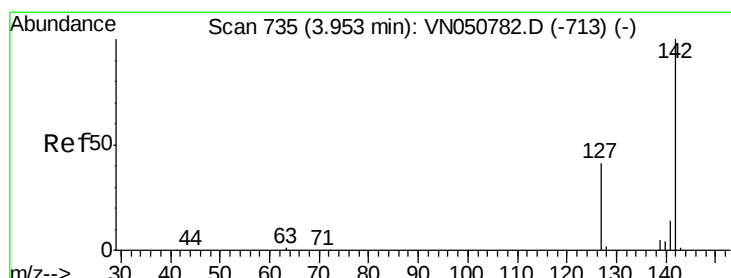
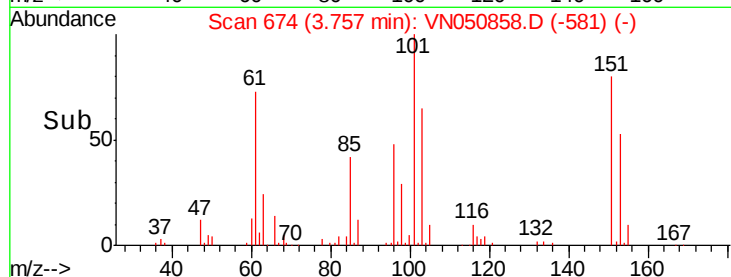
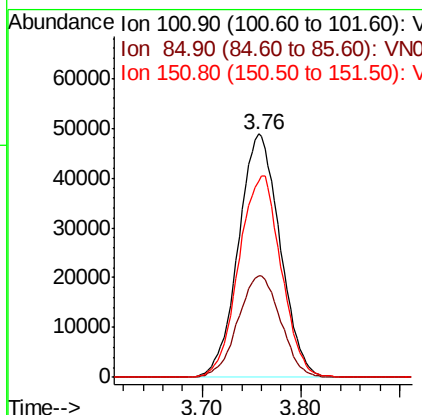
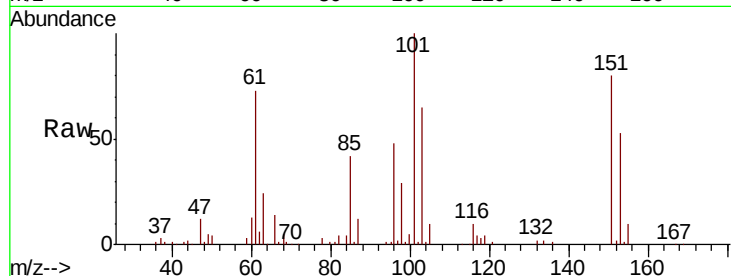
ClientSampleId :

VN0823MBS01

Tot Ion:	101	Resp:	142401
Ion Ratio	Lower	Upper	
101	100		
85	42.6	33.7	50.5
151	84.2	67.4	101.2

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#10

Methyl Iodide

Concen: 19.66 ug/l

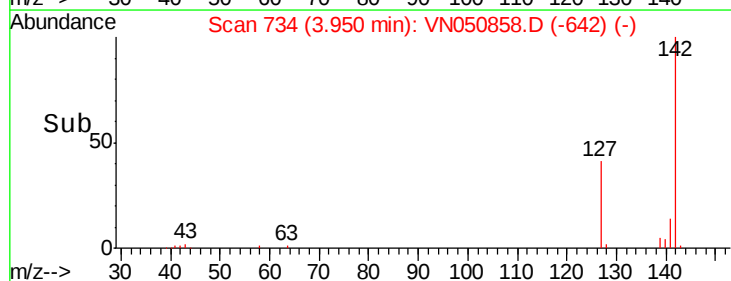
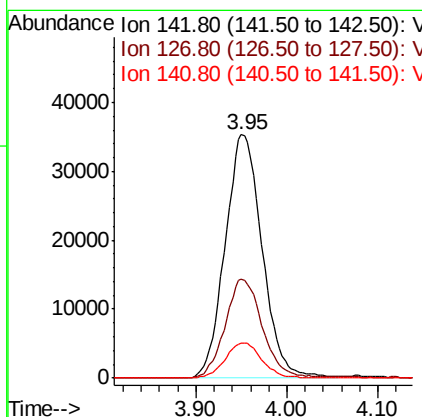
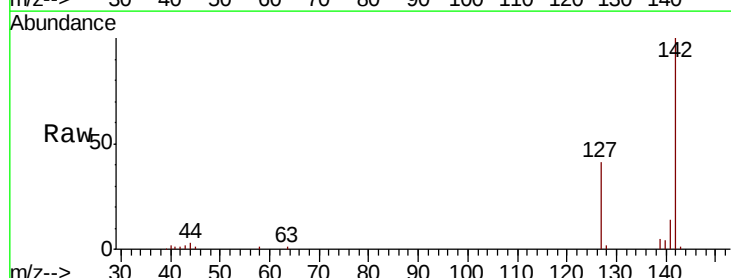
RT: 3.95 min Scan# 734

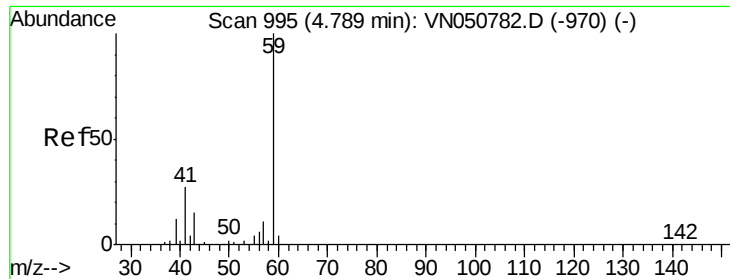
Delta R.T. -0.00 min

Lab File: VN050858.D

Acq: 23 Aug 2018 17:25

Tgt Ion:	142	Resp:	99778
Ion Ratio	Lower	Upper	
142	100		
127	41.1	31.7	47.5
141	14.3	11.4	17.0





#11

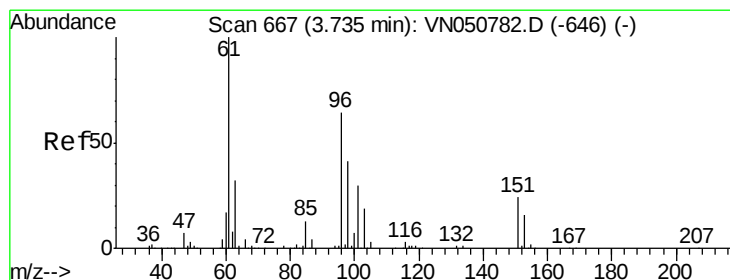
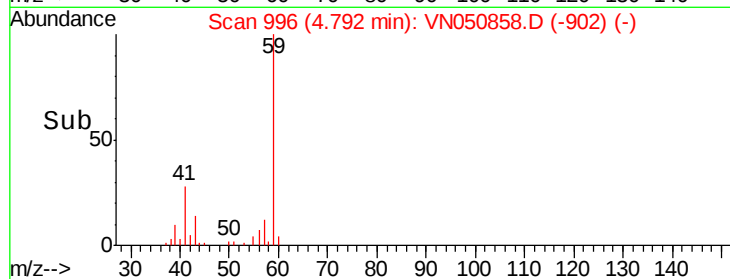
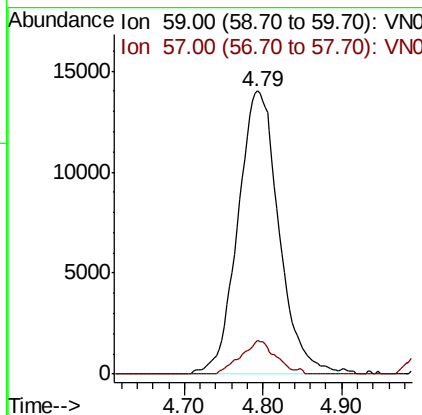
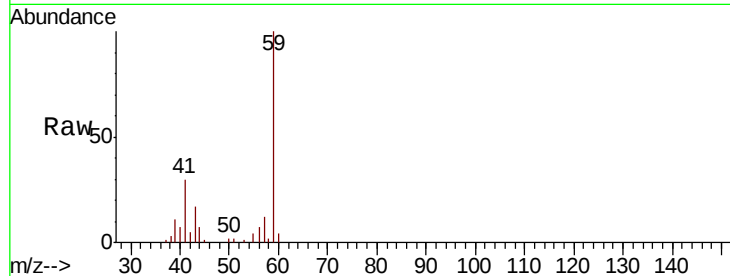
Tert butyl alcohol
 Concen: 112.46 ug/l
 RT: 4.79 min Scan# 996
 Delta R.T. 0.00 min
 Lab File: VN050858.D
 Acq: 23 Aug 2018 17:25

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0823MBS01

Tot Ion	Ratio	Lower	Upper
59	100		
57	9.9	8.3	12.5

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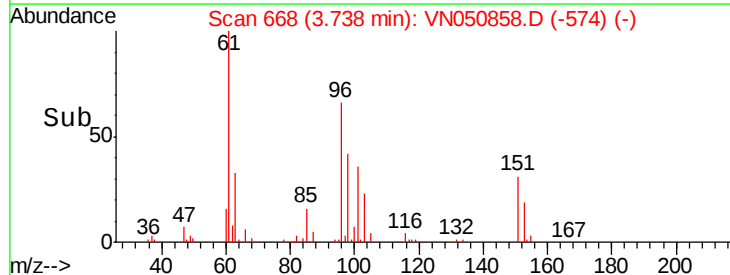
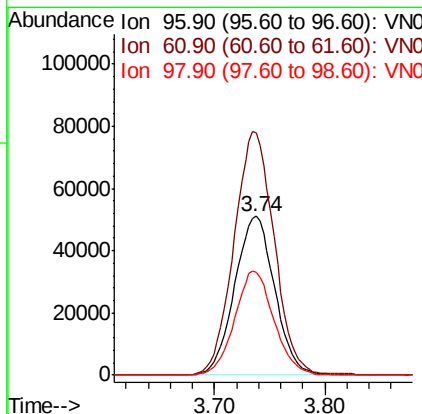
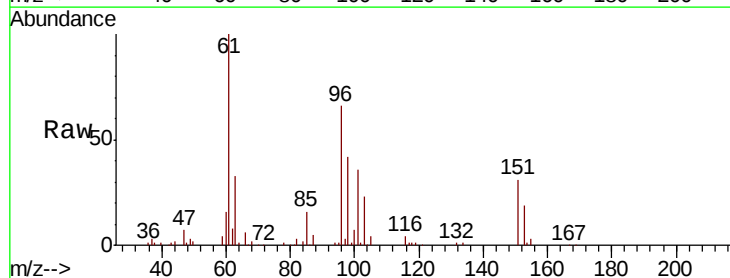
MMDadoda
 8/24/2018 10:41:09 AM



#12

1,1-Dichloroethene
 Concen: 19.20 ug/l
 RT: 3.74 min Scan# 668
 Delta R.T. 0.00 min
 Lab File: VN050858.D
 Acq: 23 Aug 2018 17:25

Tgt Ion	Ratio	Lower	Upper
96	100		
61	152.1	124.9	187.3
98	64.8	51.1	76.7





#13

Acrolein

Concen: 89.07 ug/l

RT: 3.61 min Scan# 628

Delta R.T. 0.00 min

Lab File: VN050858.D

Acq: 23 Aug 2018 17:25

Instrument :

MSVOA_N

ClientSampleId :

VN0823MBS01

Tot Ion: 56 Resp: 20452

Ion Ratio Lower Upper

56 100

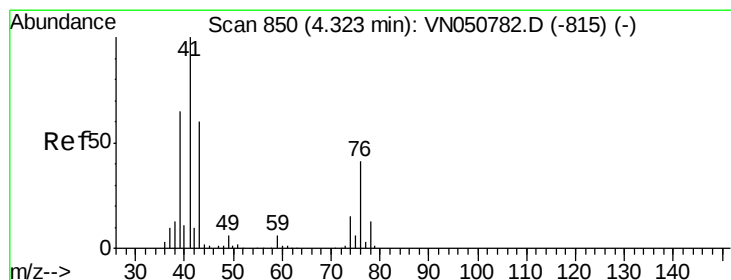
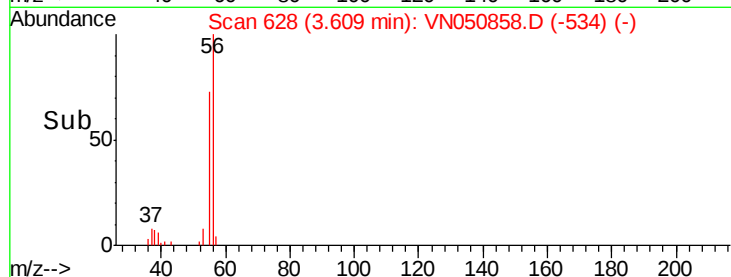
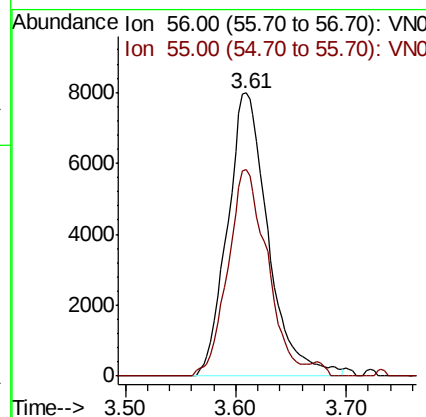
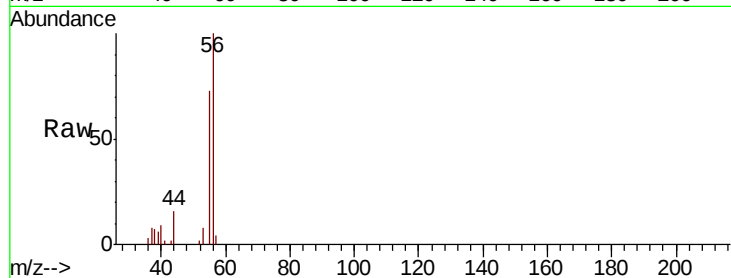
55 70.8 57.7 86.5

Manual Integrations

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#14

Allyl chloride

Concen: 18.97 ug/l

RT: 4.32 min Scan# 850

Delta R.T. -0.00 min

Lab File: VN050858.D

Acq: 23 Aug 2018 17:25

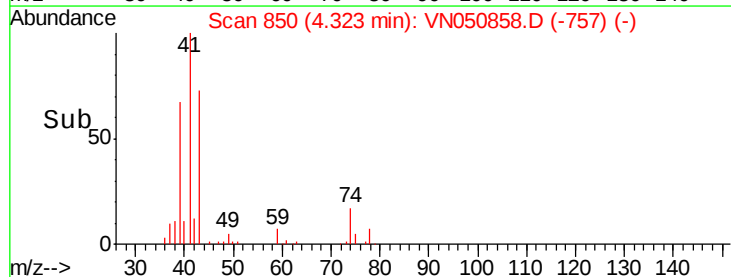
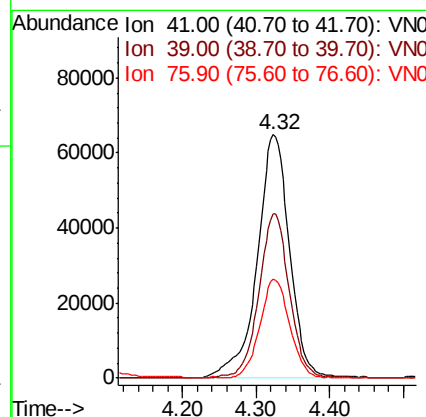
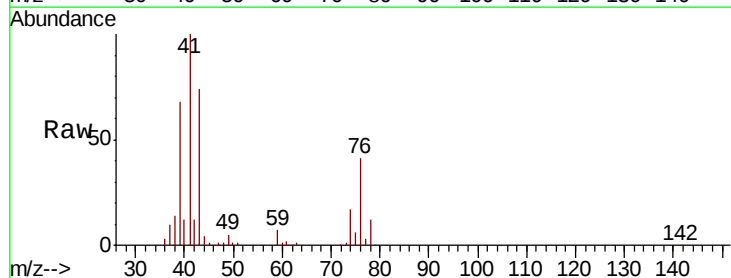
Tgt Ion: 41 Resp: 197872

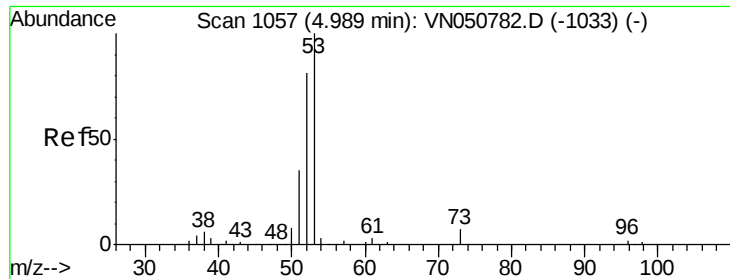
Ion Ratio Lower Upper

41 100

39 63.9 50.2 75.2

76 37.7 29.8 44.8





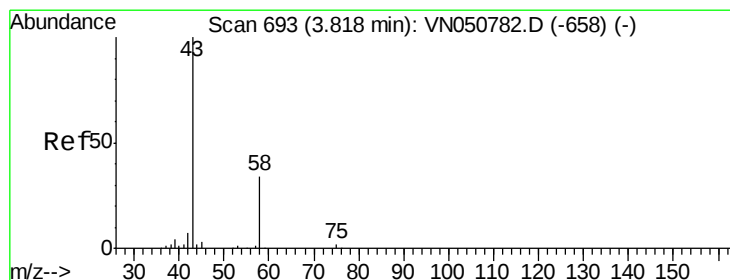
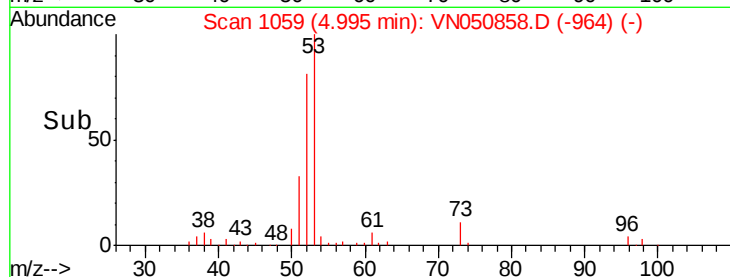
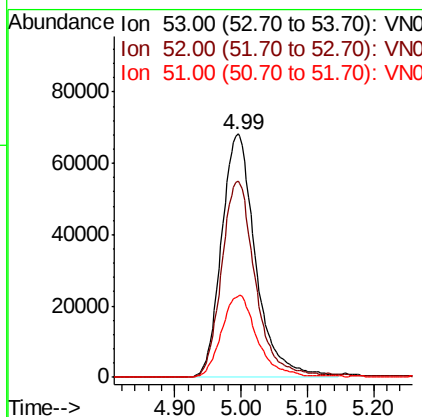
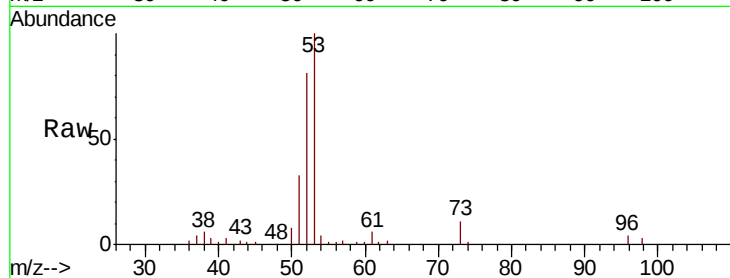
#15
 Acrylonitrile
 Concen: 105.18 ug/l
 RT: 4.99 min Scan# 1059
 Delta R.T. 0.01 min
 Lab File: VN050858.D
 Acq: 23 Aug 2018 17:25

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0823MBS01

Tot Ion	Ratio	Lower	Upper
53	100		
52	79.7	65.9	98.9
51	35.1	28.6	43.0

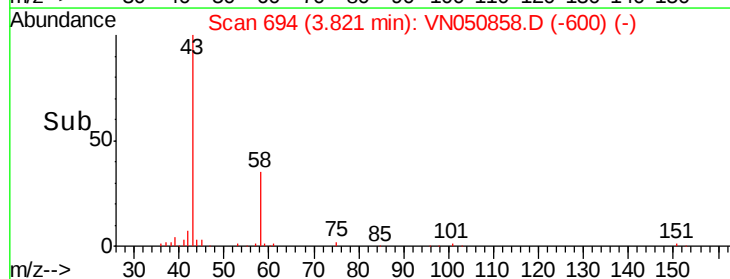
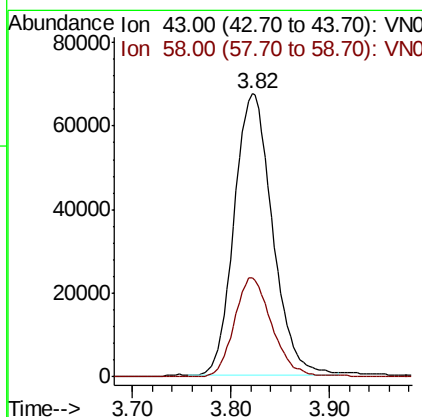
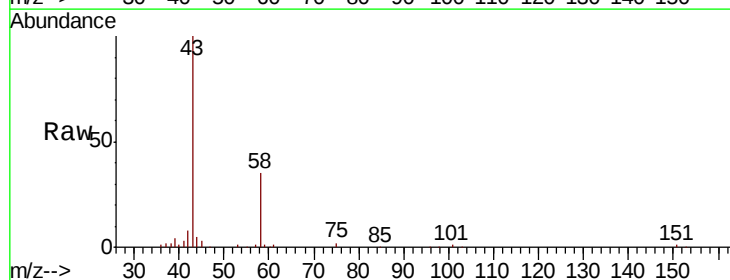
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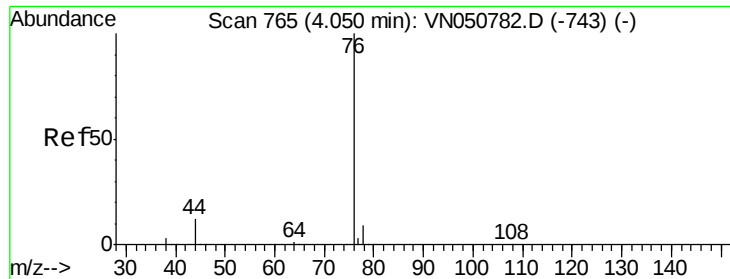
MMDadoda
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#16
 Acetone
 Concen: 102.49 ug/l
 RT: 3.82 min Scan# 694
 Delta R.T. 0.00 min
 Lab File: VN050858.D
 Acq: 23 Aug 2018 17:25

Tgt Ion	Ratio	Lower	Upper
43	100		
58	35.3	27.2	40.8





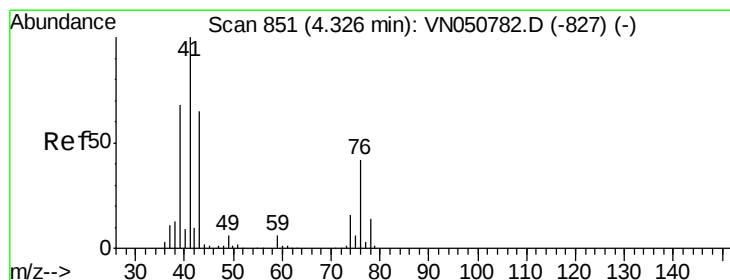
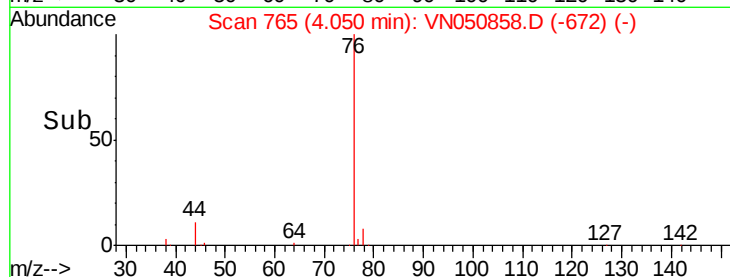
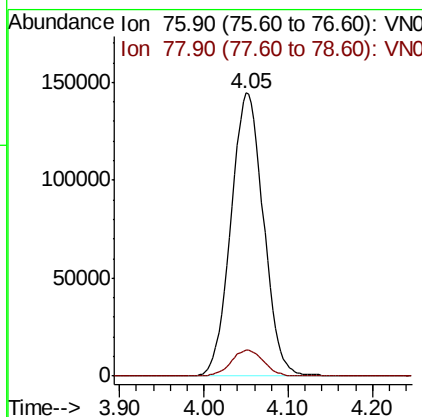
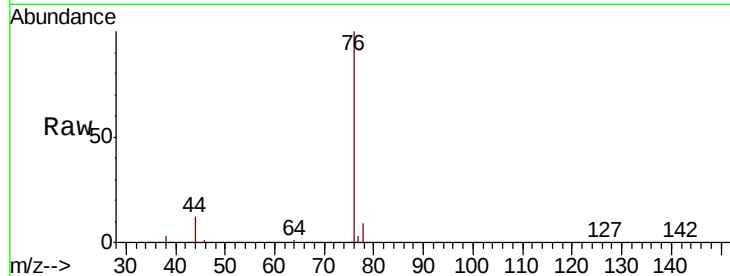
#17
Carbon Disulfide
Concen: 17.34 ug/l
RT: 4.05 min Scan# 765
Delta R.T. -0.00 min
Lab File: VN050858.D
Acq: 23 Aug 2018 17:25

Instrument :
MSVOA_N
ClientSampleId :
VN0823MBS01

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.0	7.3	10.9

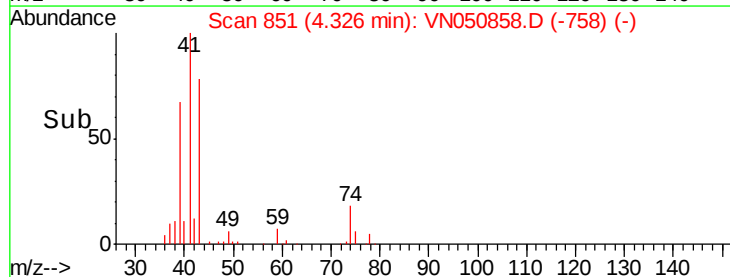
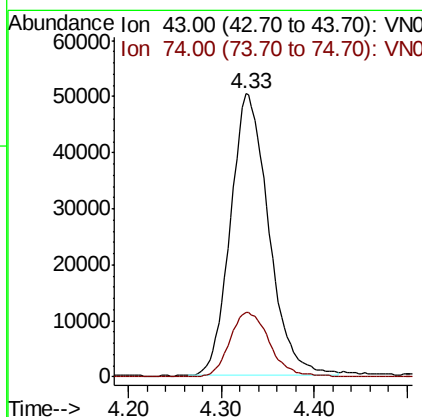
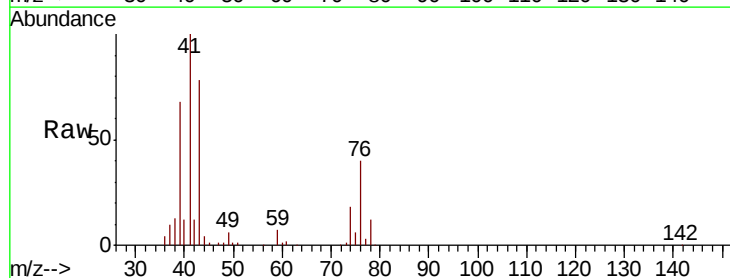
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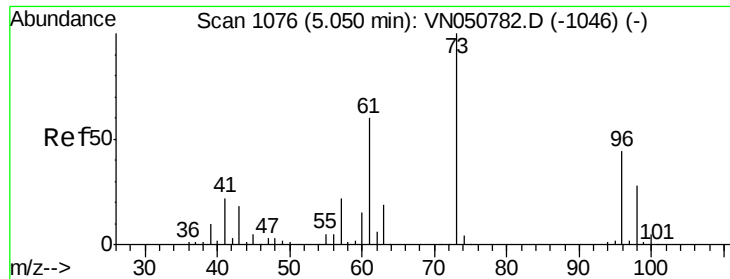
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#18
Methyl Acetate
Concen: 21.30 ug/l
RT: 4.33 min Scan# 851
Delta R.T. 0.00 min
Lab File: VN050858.D
Acq: 23 Aug 2018 17:25

Tgt Ion	Ratio	Lower	Upper
43	100		
74	23.8	19.8	29.8





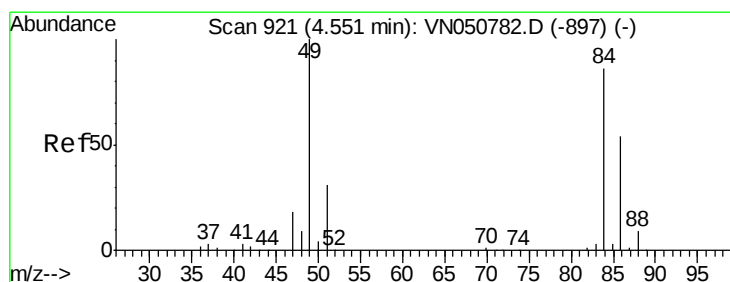
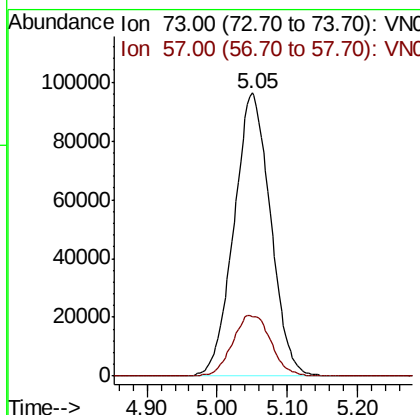
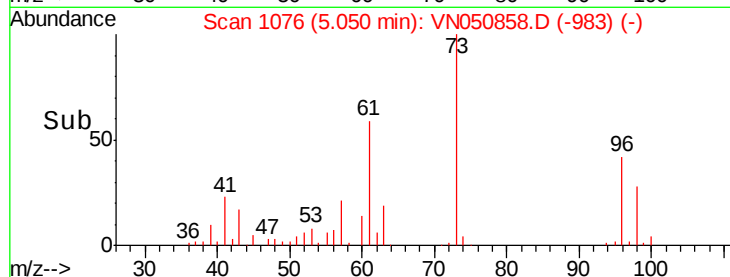
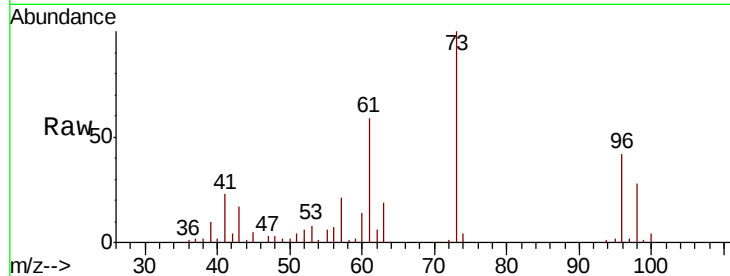
#19
Methyl tert-butyl Ether
Concen: 20.66 ug/l
RT: 5.05 min Scan# 1076
Delta R.T. -0.00 min
Lab File: VN050858.D
Acq: 23 Aug 2018 17:25

Instrument :
MSVOA_N
ClientSampled :
VN0823MBS01

Tot Ion: 73 Resp: 347913
Ion Ratio Lower Upper
73 100
57 21.0 17.8 26.8

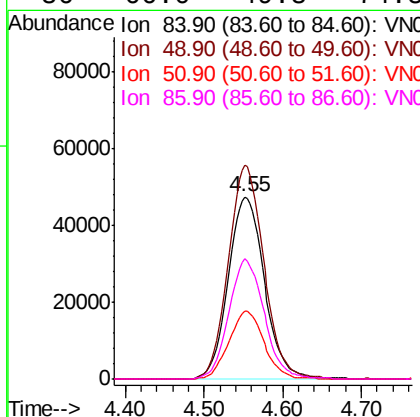
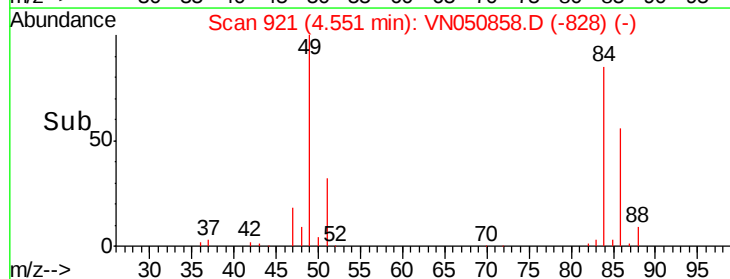
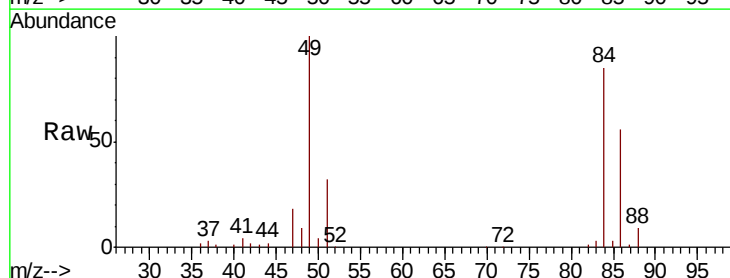
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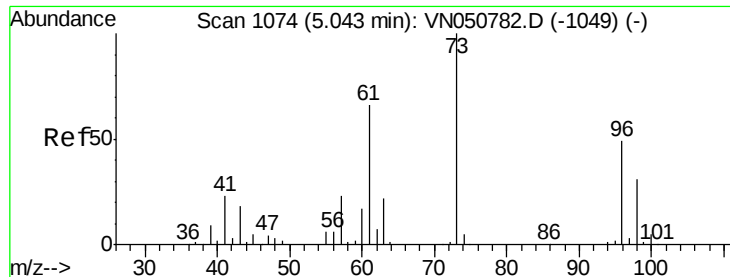
MMDadoda
8/24/2018 10:41:09 AM



#20
Methylene Chloride
Concen: 18.77 ug/l
RT: 4.55 min Scan# 921
Delta R.T. -0.00 min
Lab File: VN050858.D
Acq: 23 Aug 2018 17:25

Tgt Ion: 84 Resp: 151830
Ion Ratio Lower Upper
84 100
49 117.2 93.2 139.8
51 37.2 29.0 43.6
86 66.0 49.8 74.8





#21

trans-1,2-Dichloroethene

Concen: 18.79 ug/l

RT: 5.04 min Scan# 1074

Delta R.T. -0.00 min

Lab File: VN050858.D

Acq: 23 Aug 2018 17:25

Instrument :

MSVOA_N

ClientSampleId :

VN0823MBS01

Tot Ion: 96 Resp: 136039

Ion Ratio Lower Upper

96 100

61 140.6 107.4 161.0

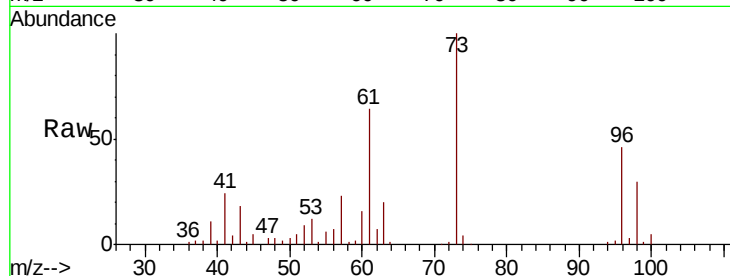
98 65.7 50.7 76.1

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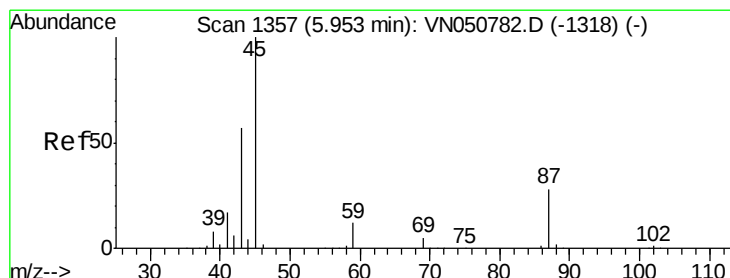
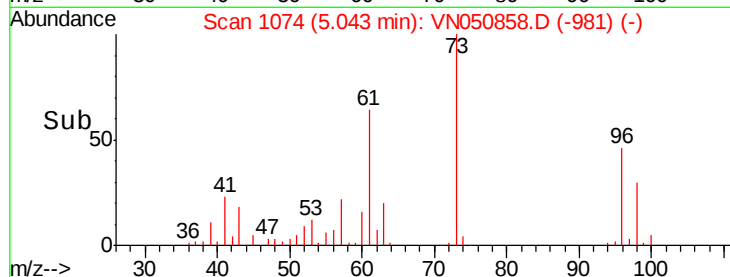
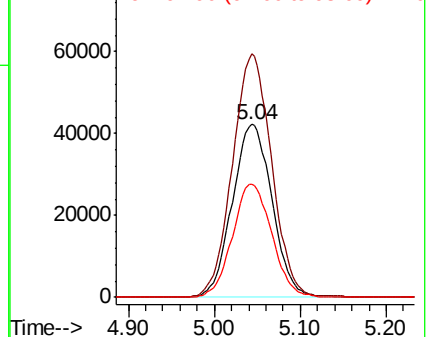


Abundance

Ion 95.90 (95.60 to 96.60): VNO

Ion 60.90 (60.60 to 61.60): VNO

Ion 97.90 (97.60 to 98.60): VNO



#22

Diisopropyl ether

Concen: 20.47 ug/l

RT: 5.96 min Scan# 1358

Delta R.T. 0.00 min

Lab File: VN050858.D

Acq: 23 Aug 2018 17:25

Tgt Ion: 45 Resp: 425487

Ion Ratio Lower Upper

45 100

43 58.1 45.9 68.9

87 28.7 22.7 34.1

59 11.5 9.3 13.9

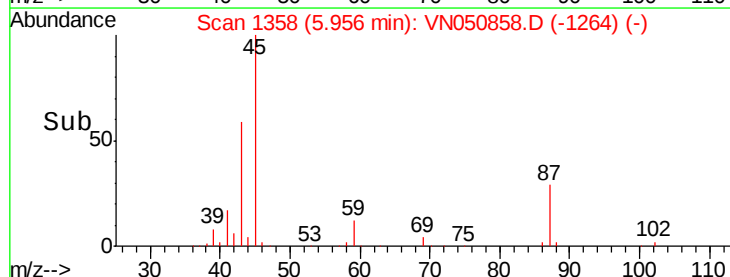
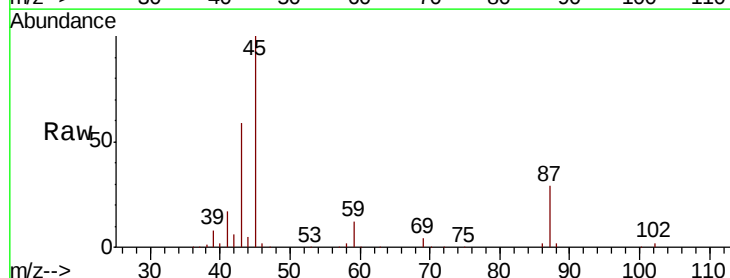
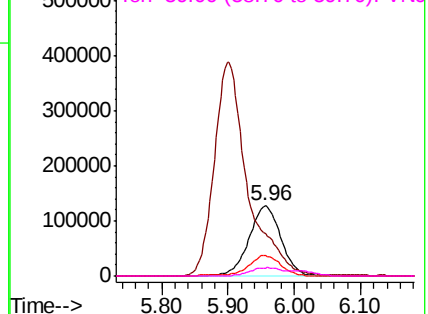
Abundance

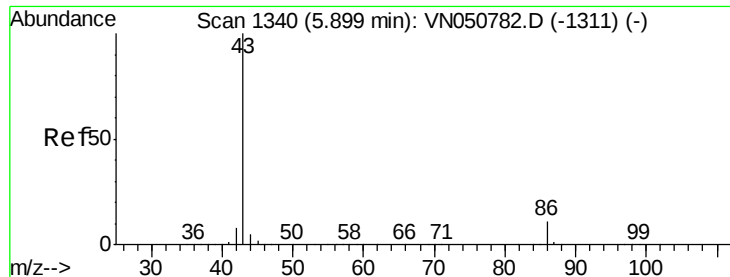
Ion 45.00 (44.70 to 45.70): VNO

Ion 43.00 (42.70 to 43.70): VNO

Ion 87.00 (86.70 to 87.70): VNO

Ion 59.00 (58.70 to 59.70): VNO





#23

Vinyl Acetate

Concen: 101.21 ug/l

RT: 5.90 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VN050858.D

Acq: 23 Aug 2018 17:25

Instrument :

MSVOA_N

ClientSampled :

VN0823MBS01

Tot Ion: 43 Resp: 1354936

Ion Ratio Lower Upper

43 100

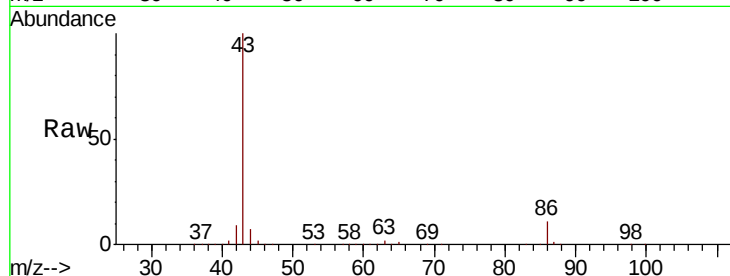
86 11.0 8.7 13.1

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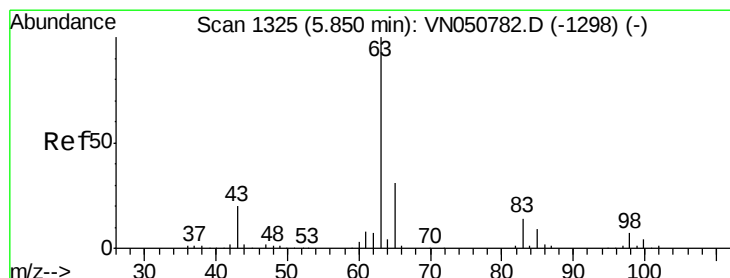
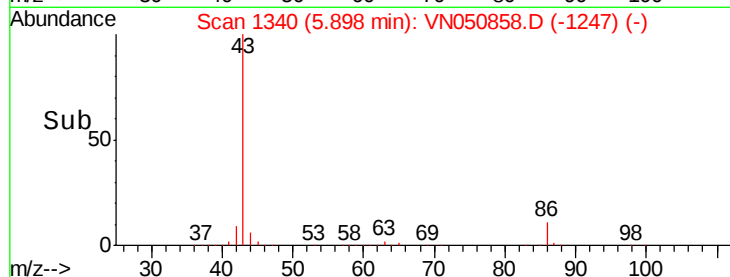
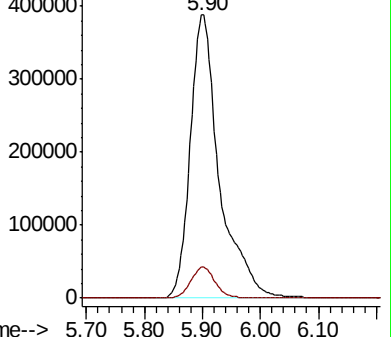
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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#24

1,1-Dichloroethane

Concen: 19.21 ug/l

RT: 5.85 min Scan# 1326

Delta R.T. 0.00 min

Lab File: VN050858.D

Acq: 23 Aug 2018 17:25

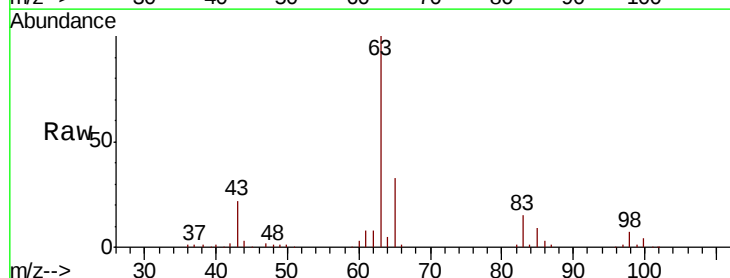
Tgt Ion: 63 Resp: 256337

Ion Ratio Lower Upper

63 100

98 7.5 3.3 9.8

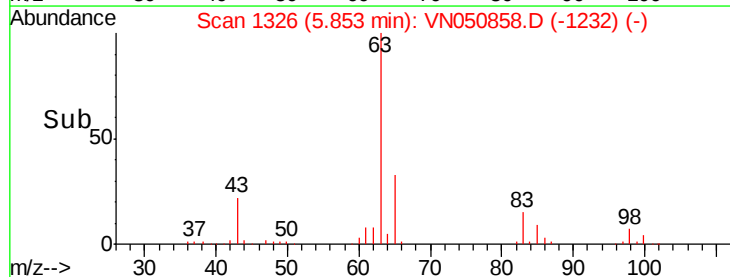
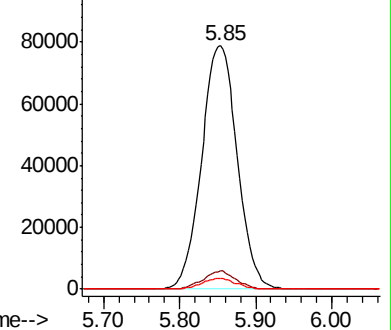
100 4.4 2.1 6.5



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





#25

2-Butanone

Concen: 95.06 ug/l

RT: 6.84 min Scan# 1634

Delta R.T. 0.01 min

Lab File: VN050858.D

Acq: 23 Aug 2018 17:25

Instrument :

MSVOA_N

ClientSampled :

VN0823MBS01

Tot Ion: 43 Resp: 274883

Ion Ratio Lower Upper

43 100

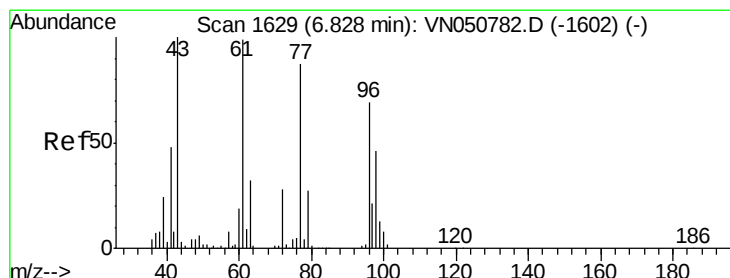
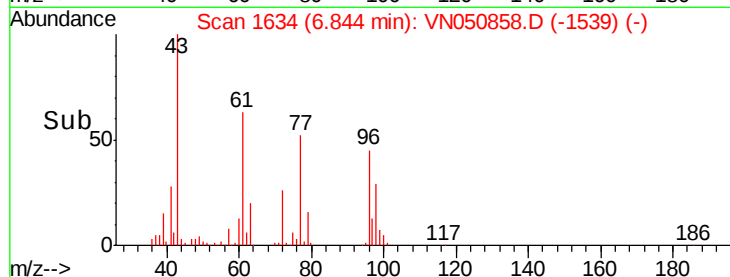
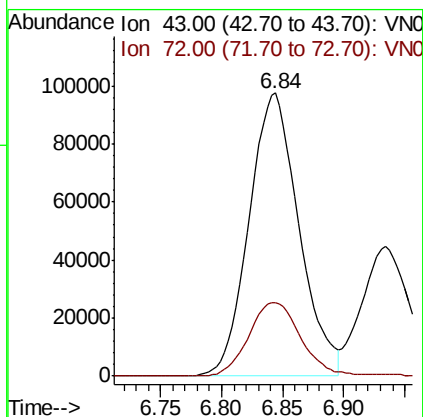
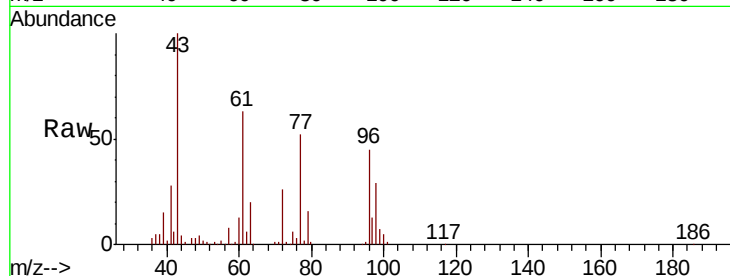
72 25.9 22.3 33.5

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 19.03 ug/l

RT: 6.83 min Scan# 1629

Delta R.T. -0.00 min

Lab File: VN050858.D

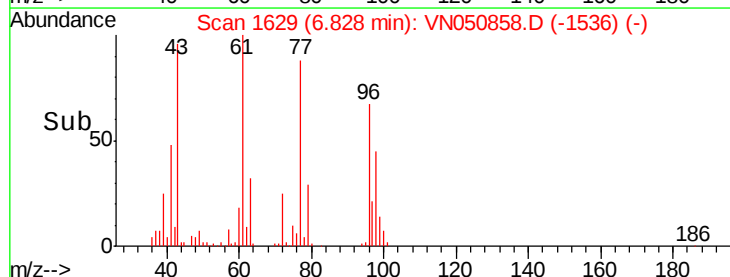
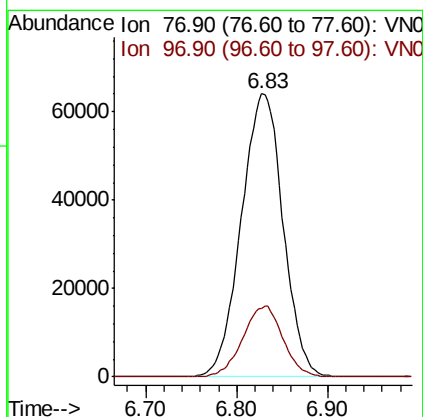
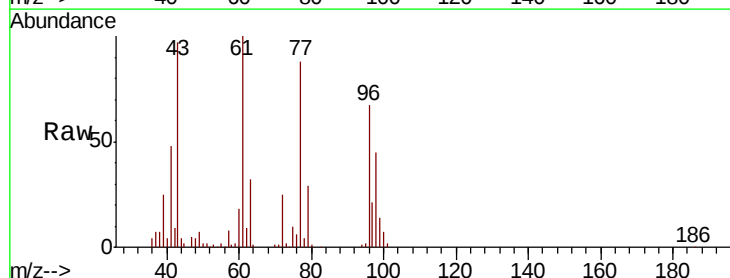
Acq: 23 Aug 2018 17:25

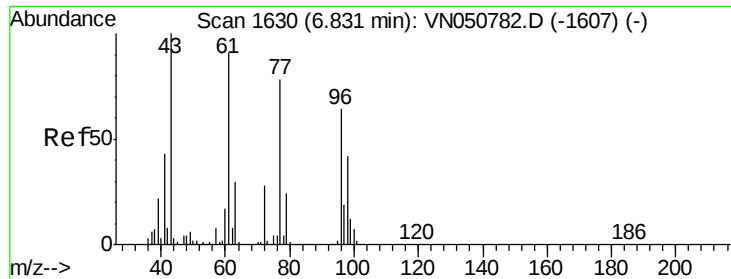
Tgt Ion: 77 Resp: 204120

Ion Ratio Lower Upper

77 100

97 24.0 12.0 36.0





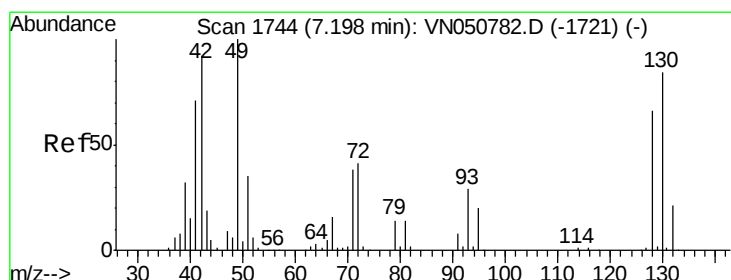
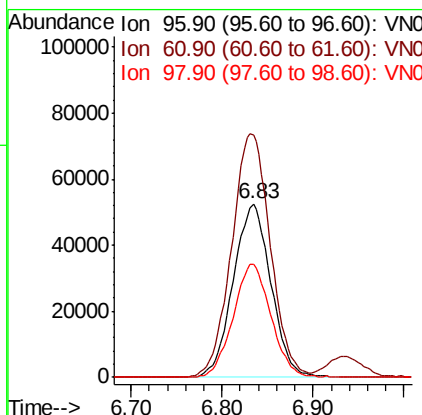
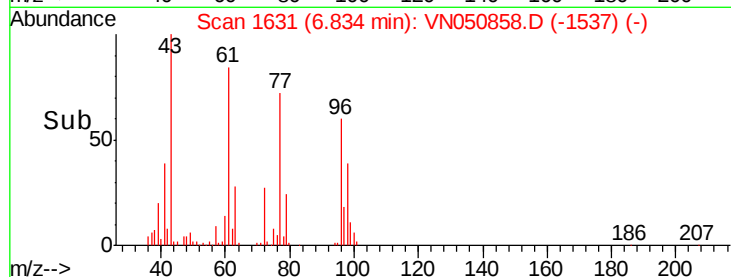
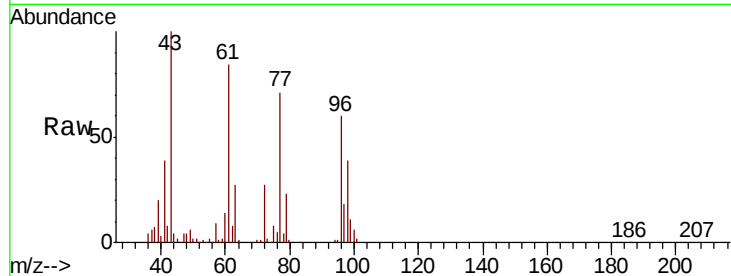
#27
 cis-1,2-Dichloroethene
 Concen: 19.37 ug/l
 RT: 6.83 min Scan# 1631
 Delta R.T. 0.00 min
 Lab File: VN050858.D
 Acq: 23 Aug 2018 17:25

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0823MBS01

Tot Ion	Ratio	Resp	Lower	Upper
96	100	151173		
61	144.0	0.0	283.4	
98	65.2	0.0	129.8	

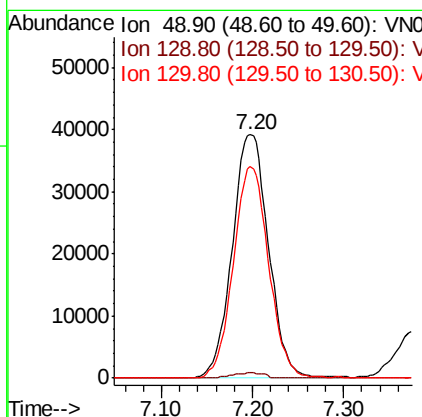
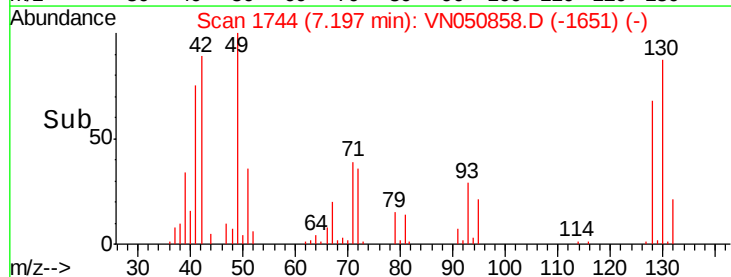
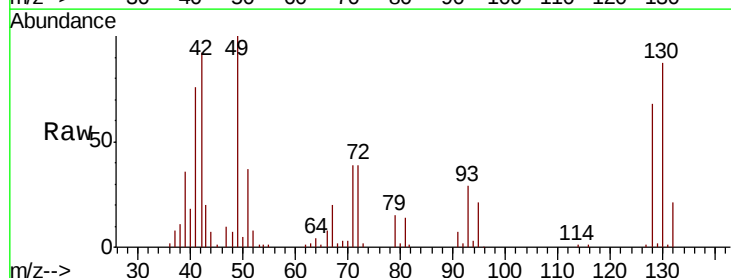
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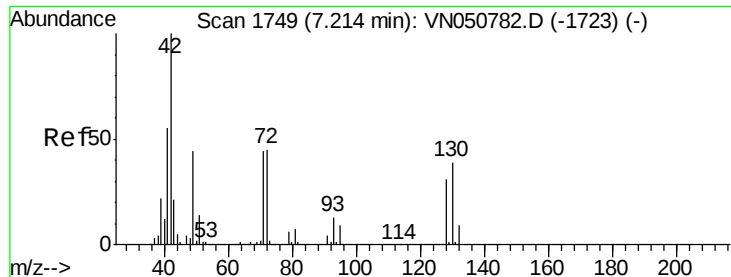
MMDadoda
 8/24/2018 10:41:09 AM



#28
 Bromochloromethane
 Concen: 19.12 ug/l
 RT: 7.20 min Scan# 1744
 Delta R.T. -0.00 min
 Lab File: VN050858.D
 Acq: 23 Aug 2018 17:25

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	108420		
129	1.9	0.0	4.2	
130	84.7	67.1	100.7	





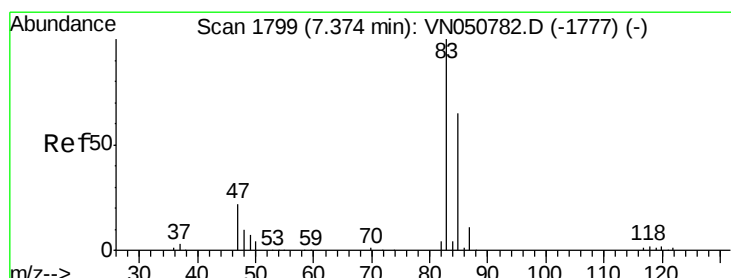
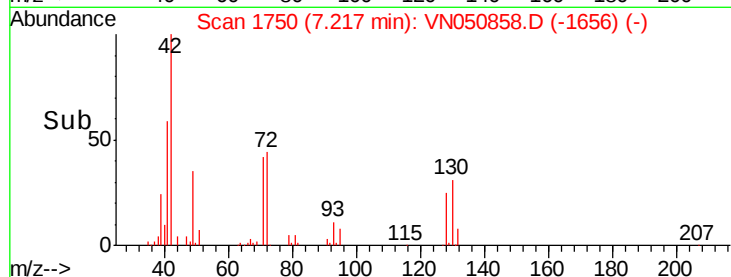
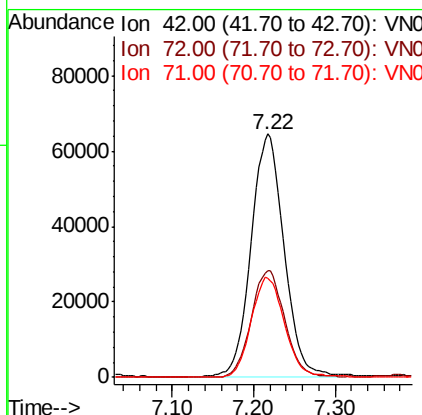
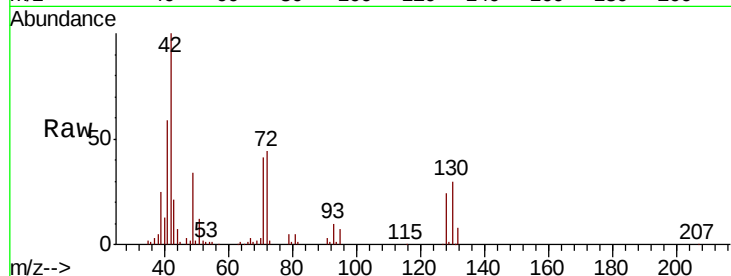
#29
Tetrahydrofuran
Concen: 109.08 ug/l
RT: 7.22 min Scan# 1750
Delta R.T. 0.00 min
Lab File: VN050858.D
Acq: 23 Aug 2018 17:25

Instrument :
MSVOA_N
ClientSampleId :
VN0823MBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	44.2	35.5	53.3
71	41.5	33.7	50.5

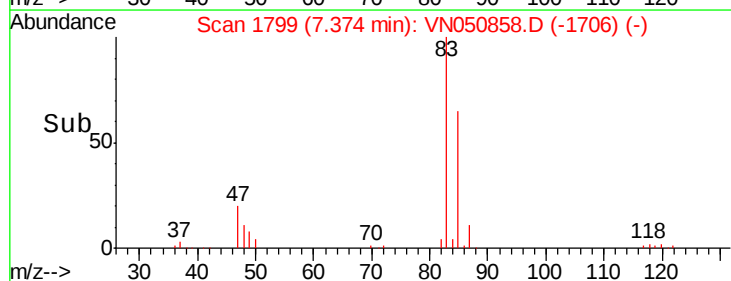
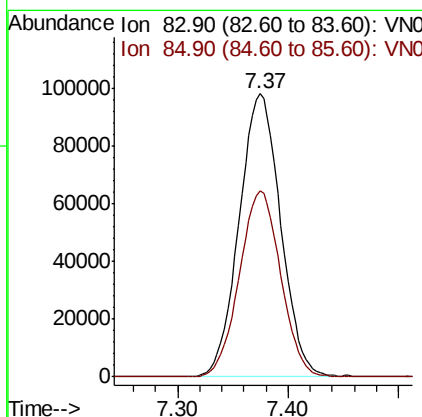
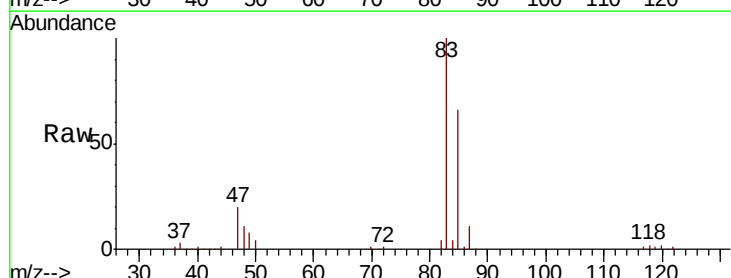
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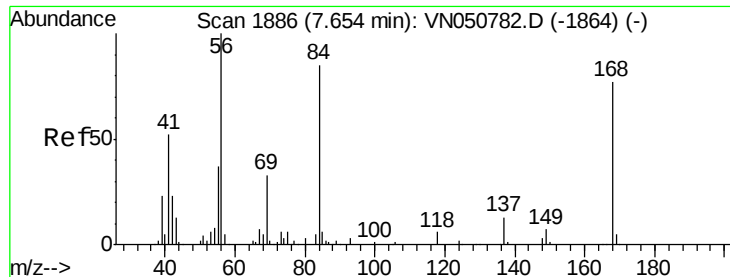
MMDadoda
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#30
Chloroform
Concen: 19.35 ug/l
RT: 7.37 min Scan# 1799
Delta R.T. -0.00 min
Lab File: VN050858.D
Acq: 23 Aug 2018 17:25

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.6	52.2	78.4





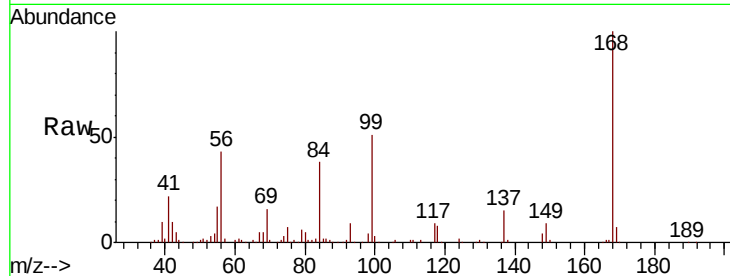
#31
Cyclohexane
Concen: 18.92 ug/l
RT: 7.66 min Scan# 1887
Delta R.T. 0.00 min
Lab File: VN050858.D
Acq: 23 Aug 2018 17:25

Instrument :
MSVOA_N
ClientSampled :
VN0823MBS01

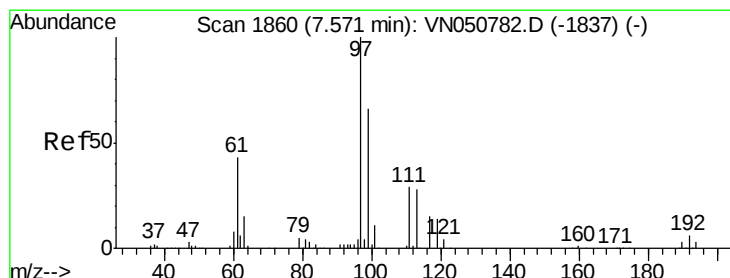
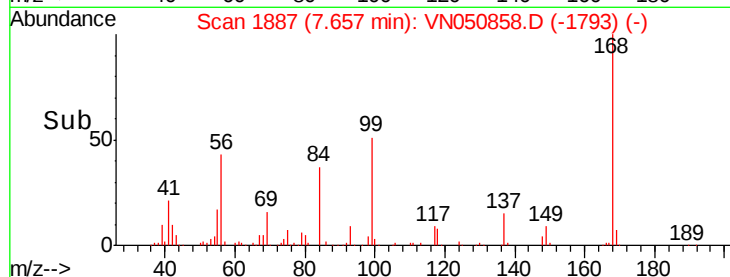
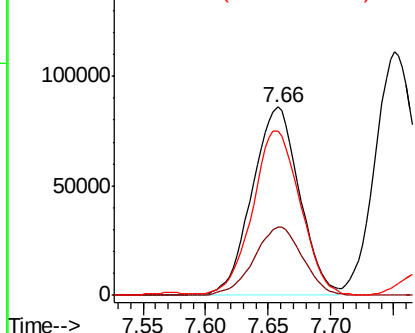
Tot Ion	Ratio	Lower	Upper
56	100		
69	36.1	26.2	39.4
84	86.5	68.3	102.5

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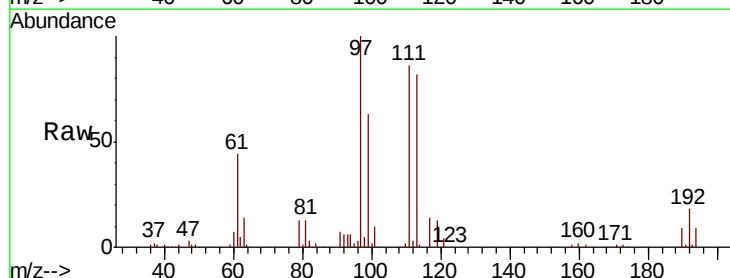


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

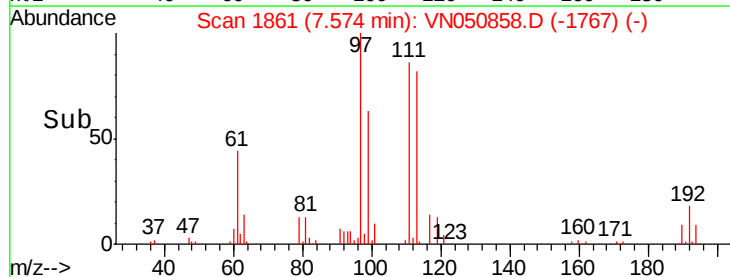
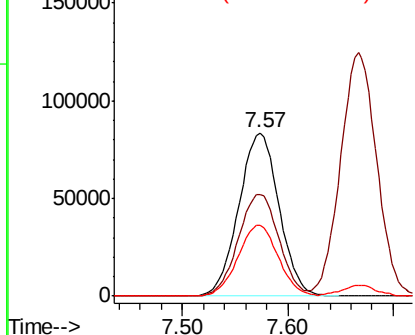


#32
1,1,1-Trichloroethane
Concen: 19.58 ug/l
RT: 7.57 min Scan# 1861
Delta R.T. 0.00 min
Lab File: VN050858.D
Acq: 23 Aug 2018 17:25

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.1	51.8	77.6
61	43.4	34.9	52.3



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





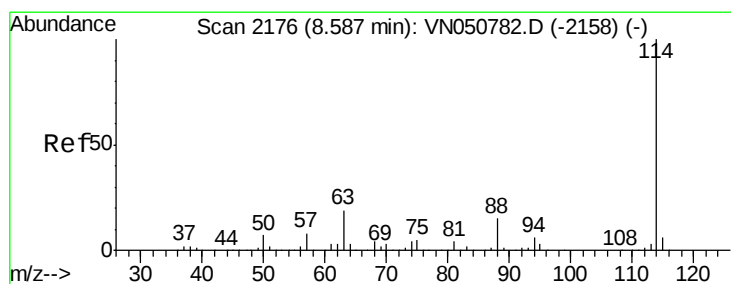
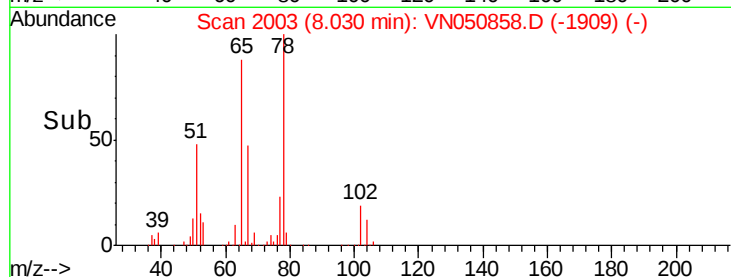
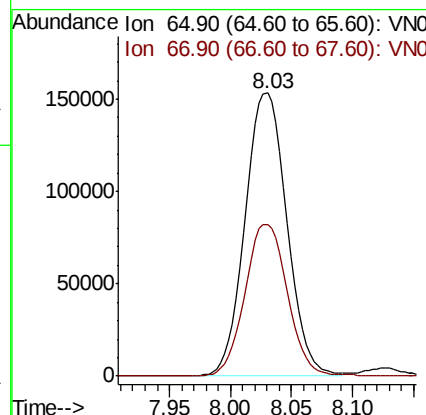
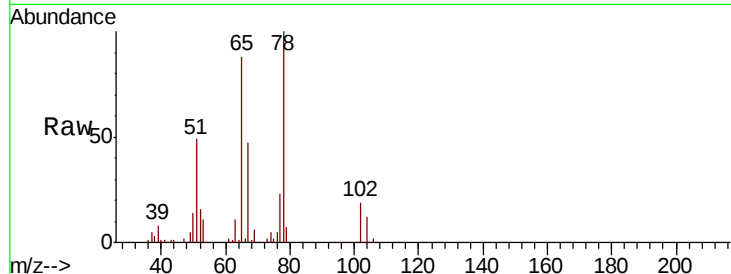
#33
 1,2-Dichloroethane-d4
 Concen: 50.64 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN050858.D
 Acq: 23 Aug 2018 17:25

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0823MBS01

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	54.6	0.0	110.4	

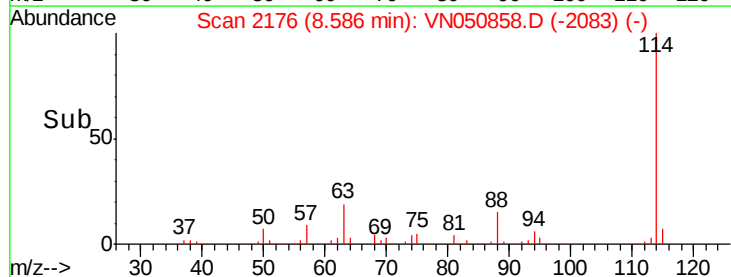
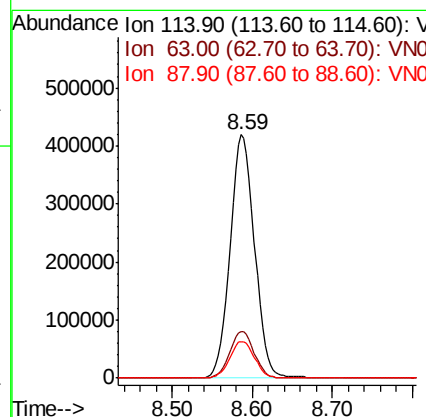
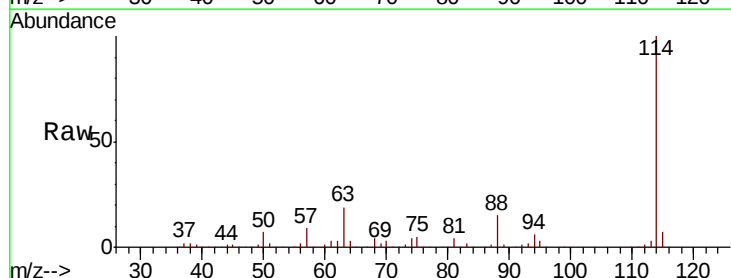
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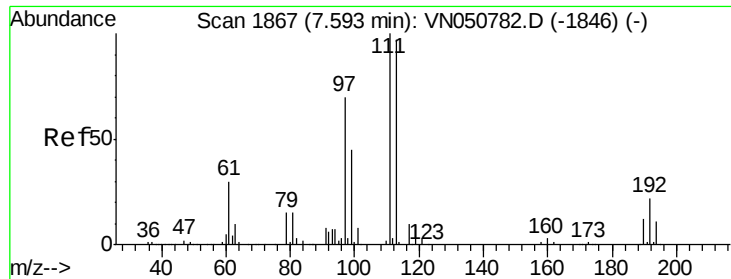
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#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. -0.00 min
 Lab File: VN050858.D
 Acq: 23 Aug 2018 17:25

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	19.4	0.0	38.6	
88	15.1	0.0	30.6	





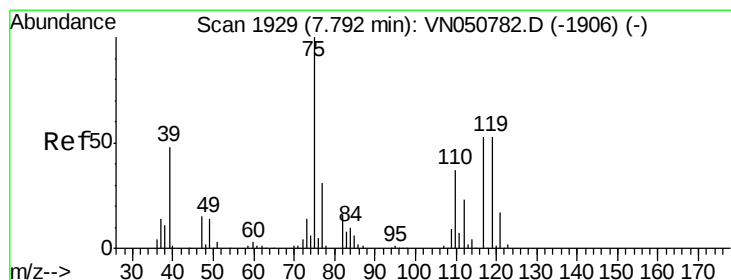
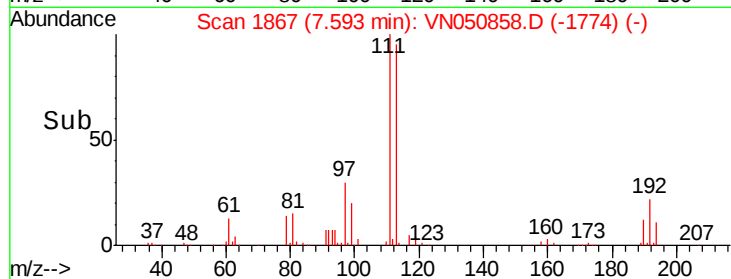
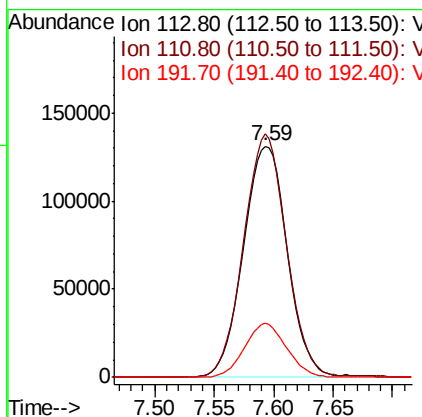
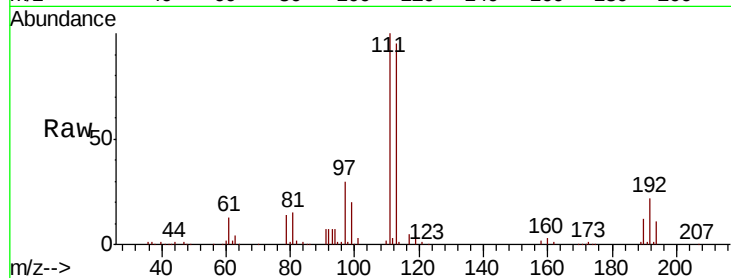
#35
 Dibromofluoromethane
 Concen: 48.31 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN050858.D
 Acq: 23 Aug 2018 17:25

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0823MBS01

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	102.5	82.6	123.8	
192	22.3	18.0	27.0	

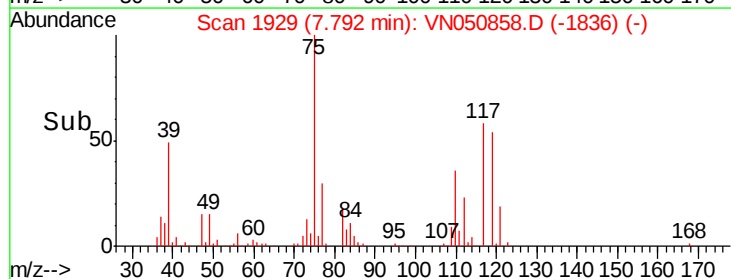
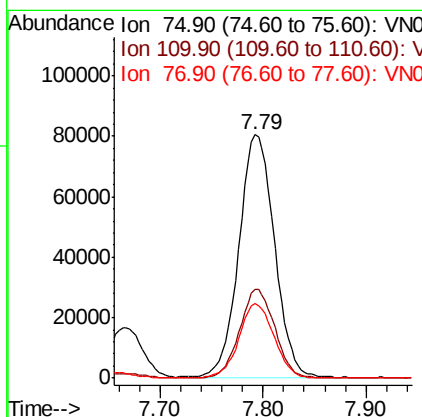
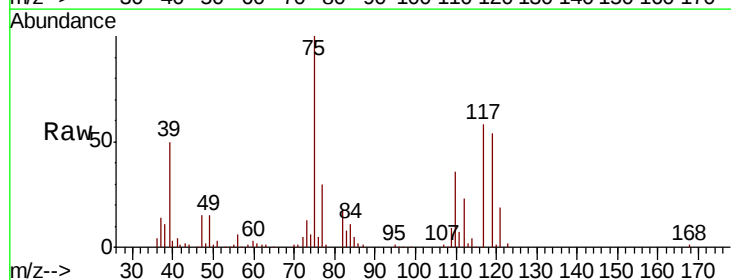
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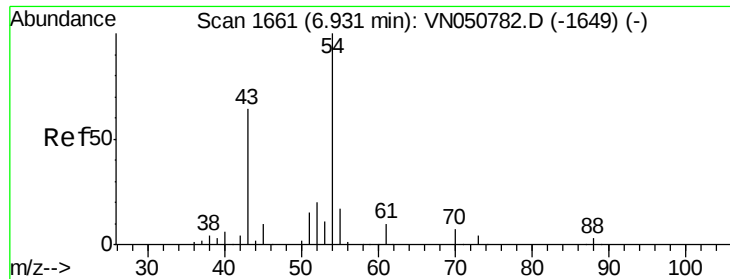
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#36
 1,1-Dichloropropene
 Concen: 18.70 ug/l
 RT: 7.79 min Scan# 1929
 Delta R.T. -0.00 min
 Lab File: VN050858.D
 Acq: 23 Aug 2018 17:25

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
110	36.1	18.1	54.4	
77	30.6	24.8	37.2	





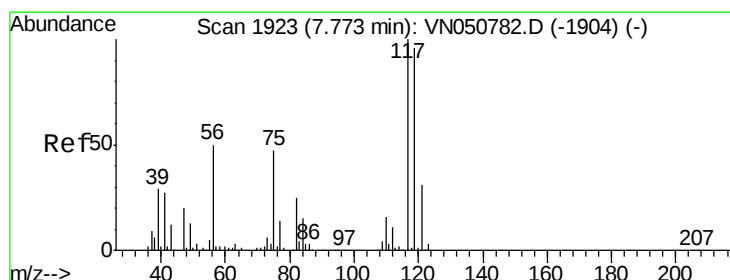
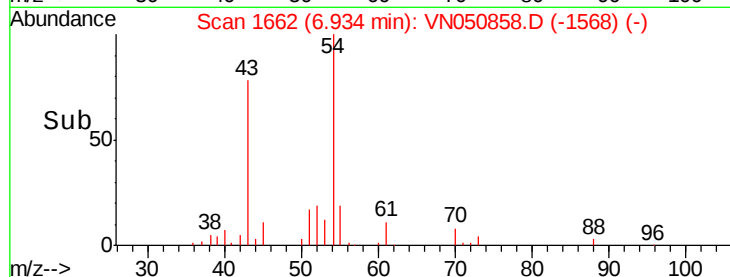
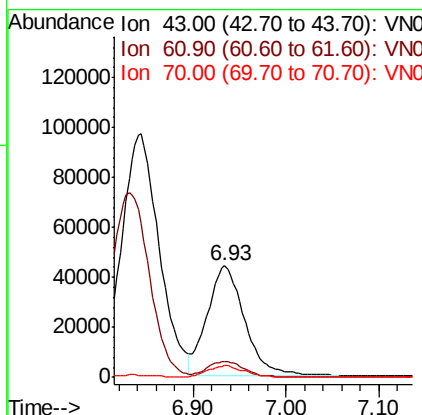
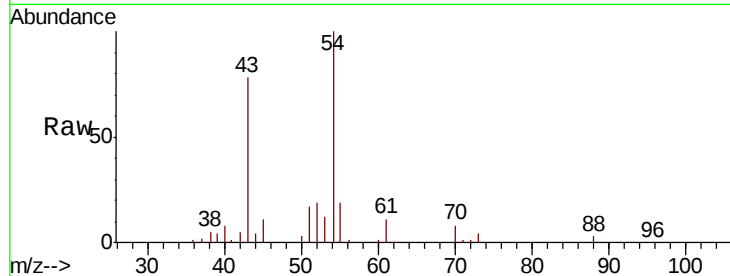
#37
Ethyl Acetate
Concen: 20.99 ug/l
RT: 6.93 min Scan# 1662
Delta R.T. 0.00 min
Lab File: VN050858.D
Acq: 23 Aug 2018 17:25

Instrument :
MSVOA_N
ClientSampleId :
VN0823MBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	13.3	12.0	18.0
70	10.6	8.6	13.0

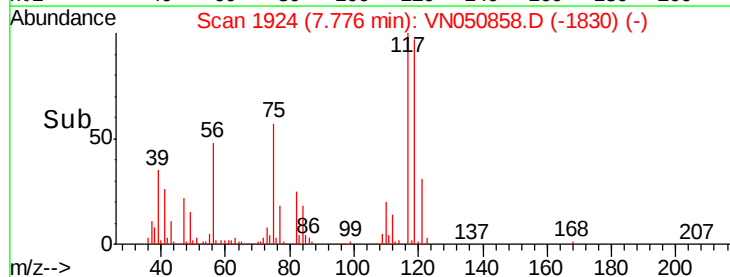
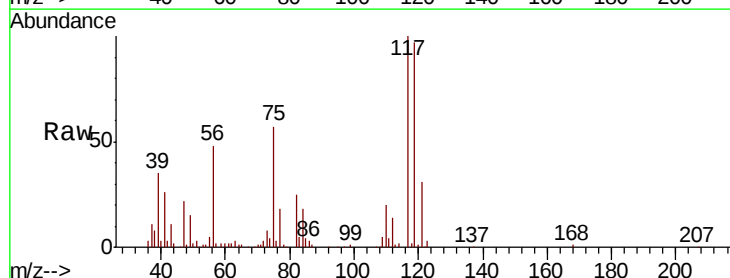
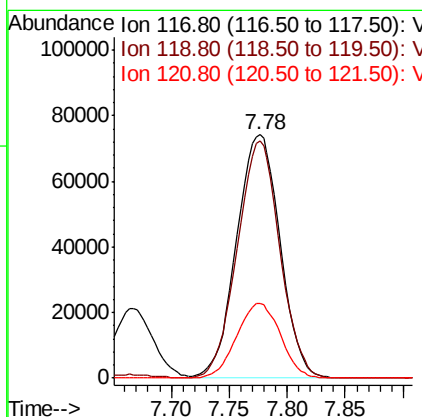
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#38
Carbon Tetrachloride
Concen: 18.52 ug/l
RT: 7.78 min Scan# 1924
Delta R.T. 0.00 min
Lab File: VN050858.D
Acq: 23 Aug 2018 17:25

Tgt Ion	Ratio	Lower	Upper
117	100		
119	97.4	76.3	114.5
121	30.8	24.6	36.8





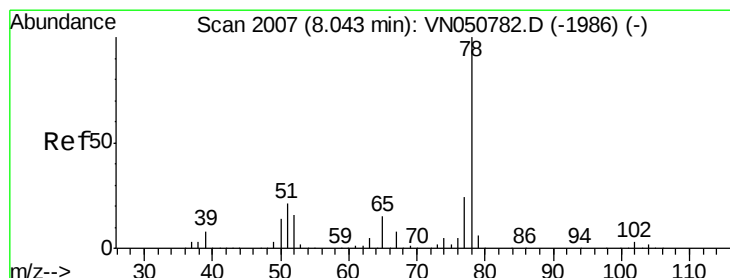
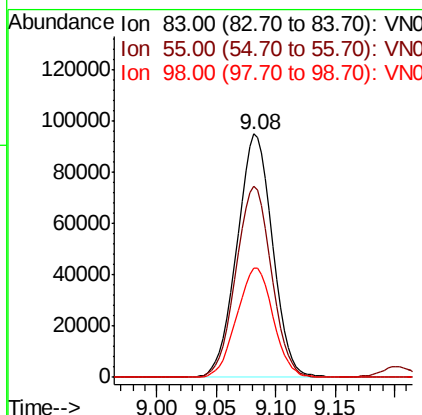
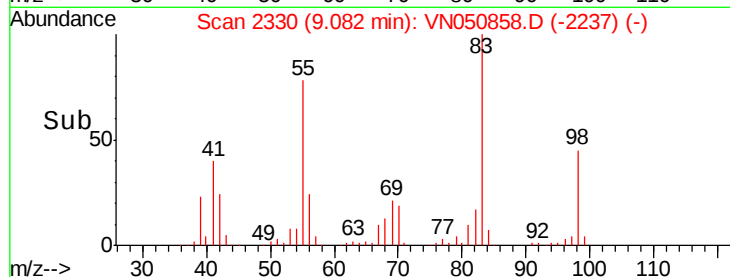
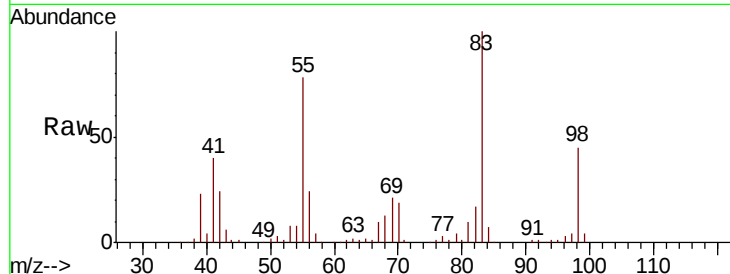
#39
Methvlcvclohexane
Concen: 17.63 ug/l
RT: 9.08 min Scan# 2330
Delta R.T. 0.00 min
Lab File: VN050858.D
Acq: 23 Aug 2018 17:25

Instrument :
MSVOA_N
ClientSampleId :
VN0823MBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	78.3	61.0	91.4
98	45.0	37.5	56.3

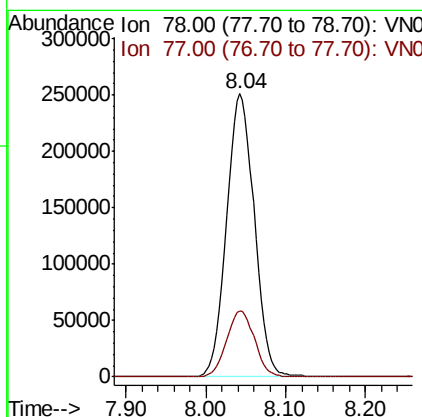
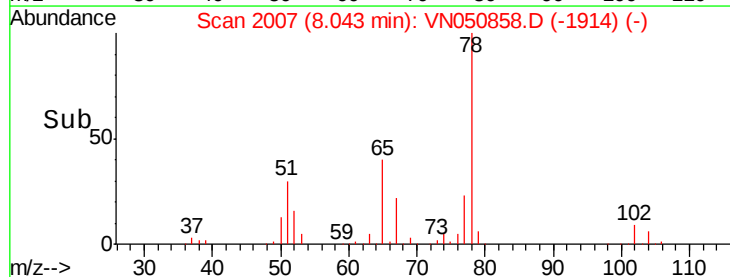
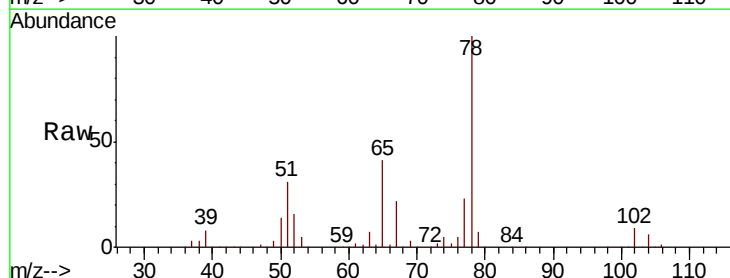
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#40
Benzene
Concen: 19.04 ug/l
RT: 8.04 min Scan# 2007
Delta R.T. -0.00 min
Lab File: VN050858.D
Acq: 23 Aug 2018 17:25

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.4	19.0	28.4





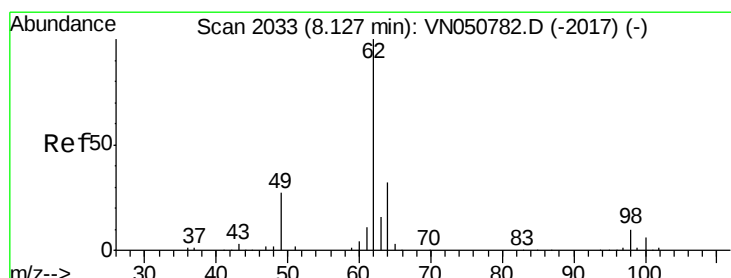
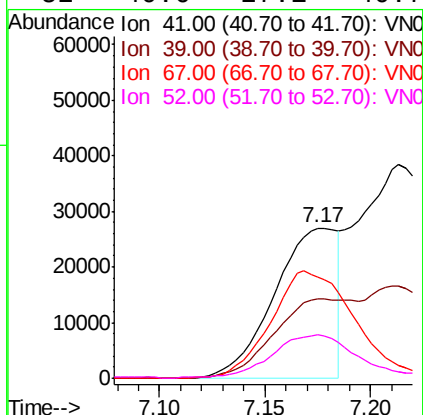
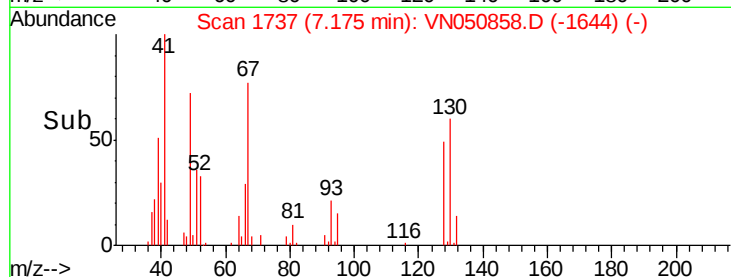
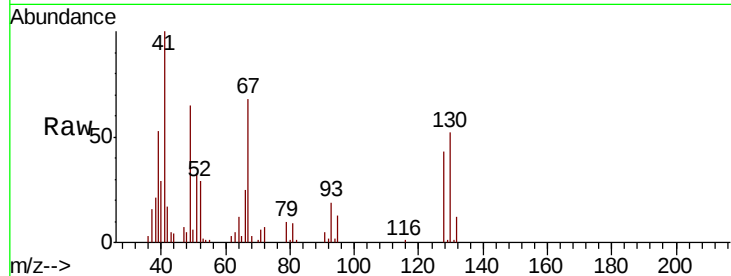
#41
Methacrylonitrile
Concen: 17.58 ug/l
RT: 7.17 min Scan# 1737
Delta R.T. -0.00 min
Lab File: VN050858.D
Acq: 23 Aug 2018 17:25

Instrument :
MSVOA_N
ClientSampleId :
VN0823MBS01

Tot Ion	Ratio	Lower	Upper
41	100		
39	67.2	45.4	68.0
67	94.9	70.6	106.0
52	40.6	27.1	40.7

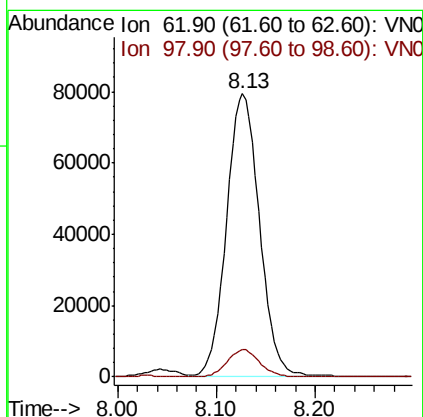
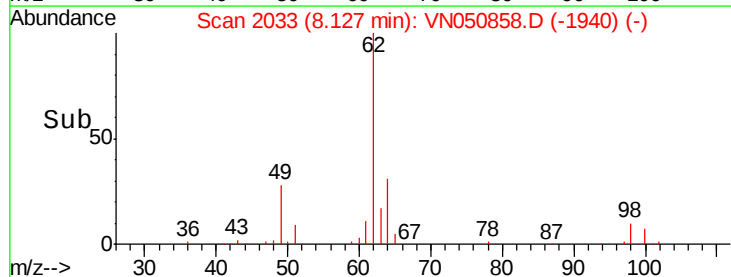
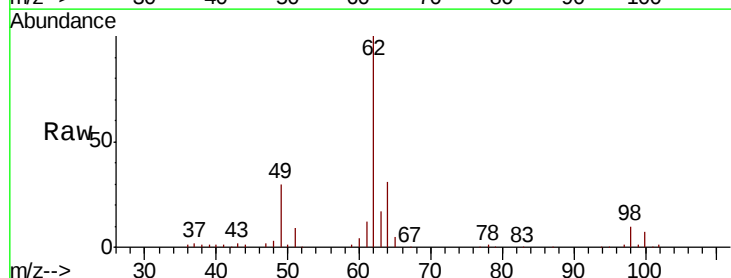
Manual Integrations
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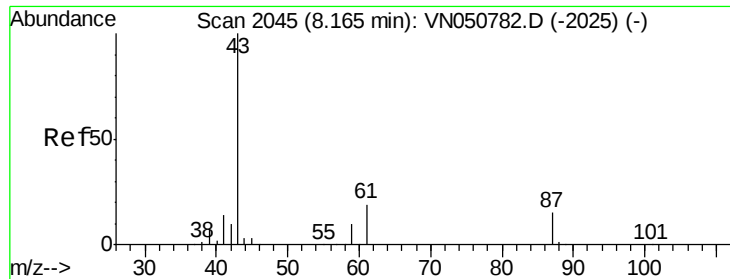
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#42
1,2-Dichloroethane
Concen: 19.78 ug/l
RT: 8.13 min Scan# 2033
Delta R.T. -0.00 min
Lab File: VN050858.D
Acq: 23 Aug 2018 17:25

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.5	0.0	19.6





#43

Isopropyl Acetate

Concen: 22.49 ug/l

RT: 8.17 min Scan# 2045

Delta R.T. 0.00 min

Lab File: VN050858.D

Acq: 23 Aug 2018 17:25

Instrument :

MSVOA_N

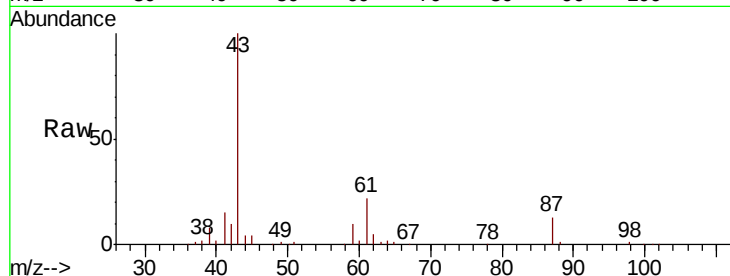
ClientSampleId :

VN0823MBS01

Tot Ion:	43	Resp:	229189
Ion	Ratio	Lower	Upper
43	100		
61	19.2	17.5	26.3
87	12.4	11.3	16.9

Manual Integrations
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8/24/2018 10:41:09 AM

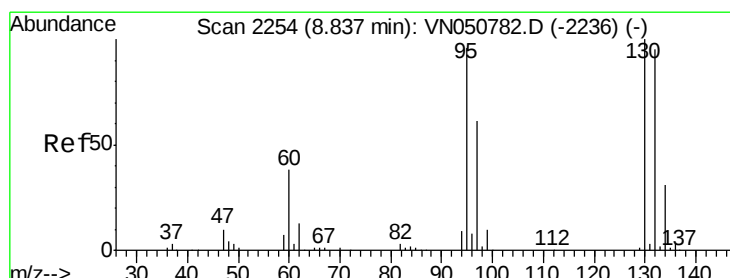
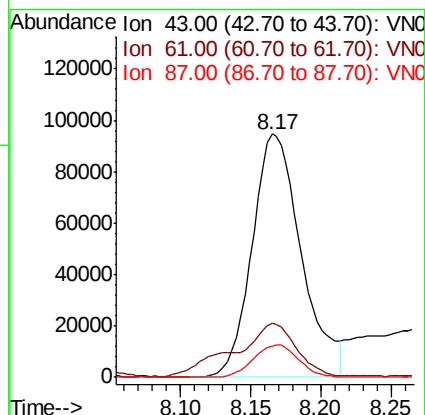
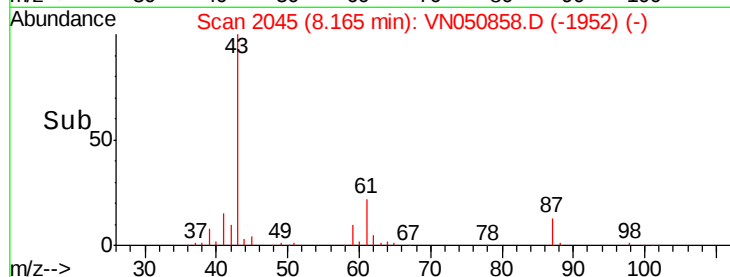


Abundance Ion 43.00 (42.70 to 43.70): VN050782.D (-2025) (-)

Ion 61.00 (60.70 to 61.70): VN050782.D (-2025) (-)

Ion 87.00 (86.70 to 87.70): VN050782.D (-2025) (-)

Time-->



#44

Trichloroethene

Concen: 18.77 ug/l

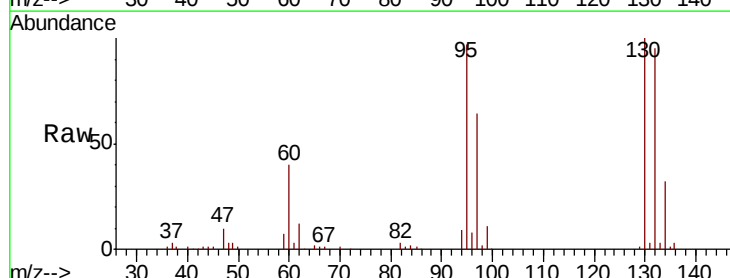
RT: 8.84 min Scan# 2254

Delta R.T. -0.00 min

Lab File: VN050858.D

Acq: 23 Aug 2018 17:25

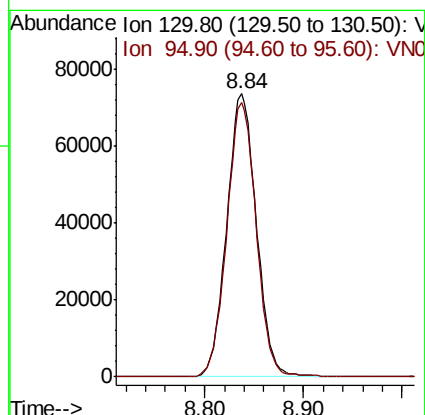
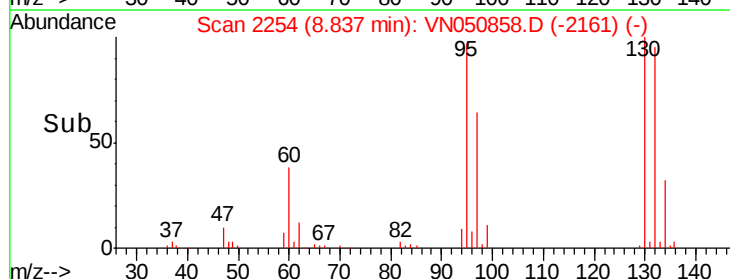
Tgt Ion:	130	Resp:	153998
Ion	Ratio	Lower	Upper
130	100		
95	96.7	0.0	193.0

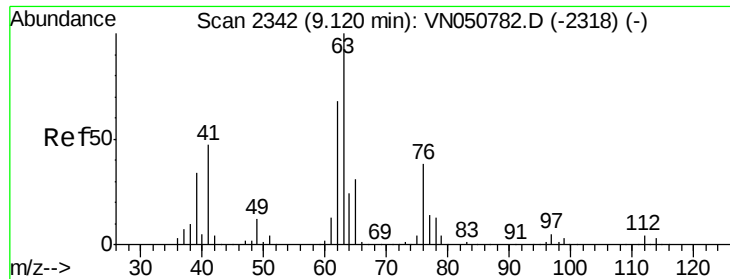


Abundance Ion 129.80 (129.50 to 130.50): VN050782.D (-2236) (-)

Ion 94.90 (94.60 to 95.60): VN050782.D (-2236) (-)

Time-->





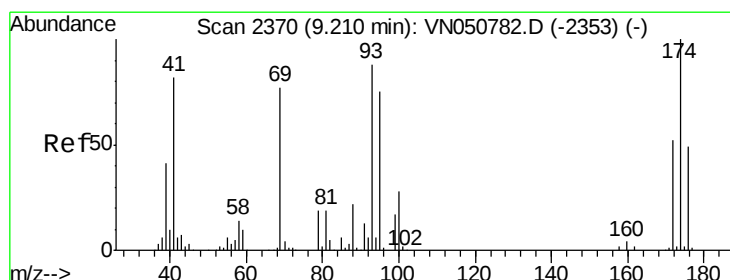
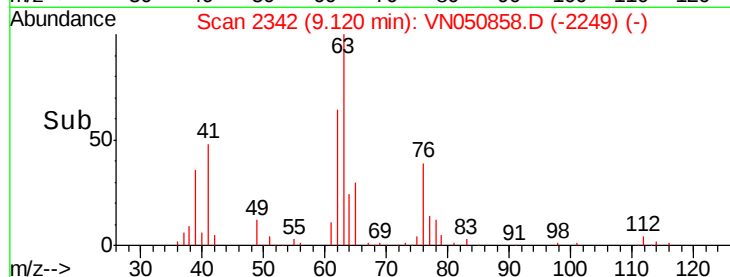
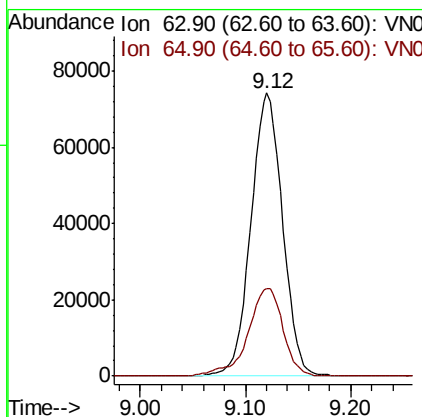
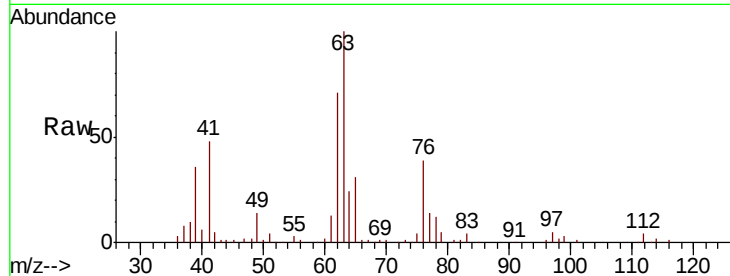
#45
 1,2-Dichloropropane
 Concen: 19.00 ug/l
 RT: 9.12 min Scan# 2342
 Delta R.T. -0.00 min
 Lab File: VN050858.D
 Acq: 23 Aug 2018 17:25

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0823MBS01

Tot Ion	Ratio	Lower	Upper
63	100		
65	31.1	25.0	37.6

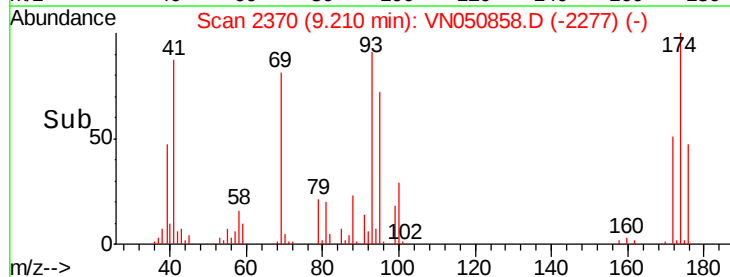
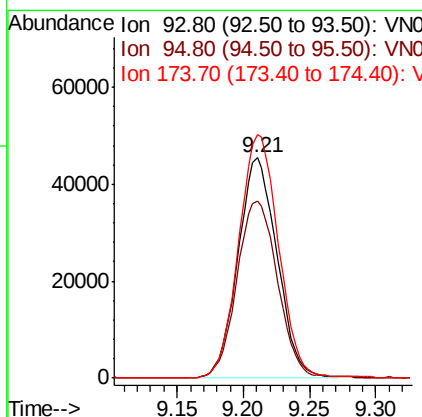
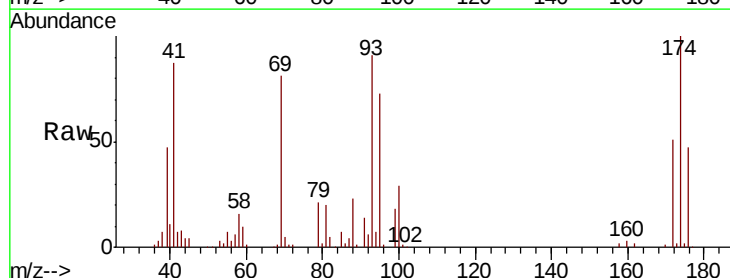
Manual Integrations
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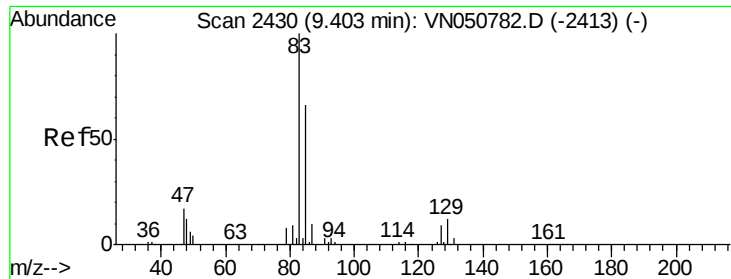
MMDadoda
 8/24/2018 10:41:09 AM



#46
 Dibromomethane
 Concen: 19.46 ug/l
 RT: 9.21 min Scan# 2370
 Delta R.T. -0.00 min
 Lab File: VN050858.D
 Acq: 23 Aug 2018 17:25

Tgt Ion	Ratio	Lower	Upper
93	100		
95	83.4	66.7	100.1
174	111.9	89.8	134.6





#47

Bromodichloromethane

Concen: 19.22 ug/l

RT: 9.40 min Scan# 2430

Delta R.T. -0.00 min

Lab File: VN050858.D

Acq: 23 Aug 2018 17:25

Instrument :

MSVOA_N

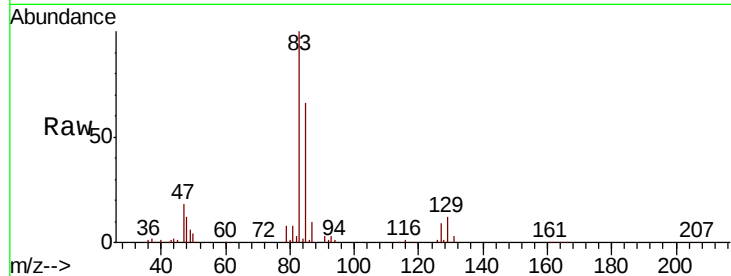
ClientSampleId :

VN0823MBS01

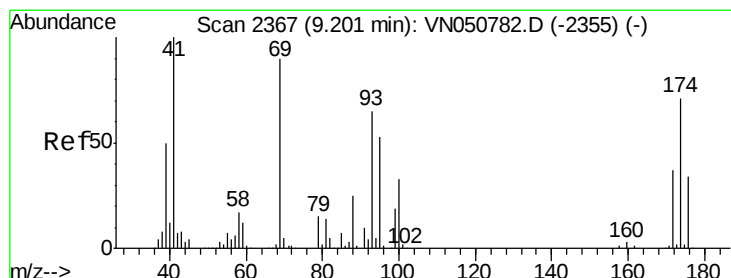
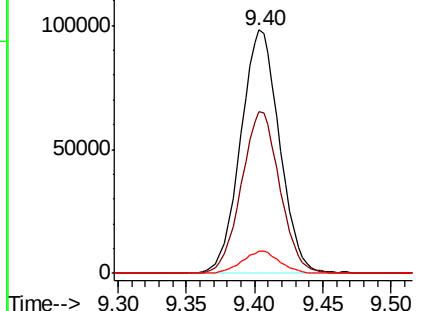
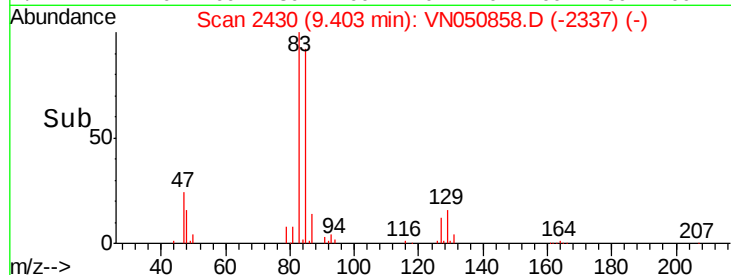
Tot Ion:	83	Resp:	193389
Ion	Ratio	Lower	Upper
83	100		
85	66.3	52.6	78.8
127	8.9	7.2	10.8

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Abundance Ion 82.90 (82.60 to 83.60): VN050858.D (-2337) (-)



#48

Methyl methacrylate

Concen: 19.80 ug/l

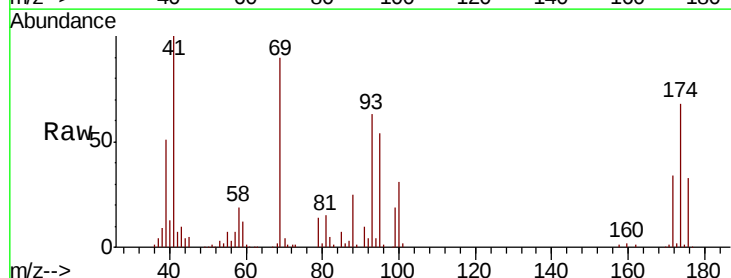
RT: 9.20 min Scan# 2367

Delta R.T. 0.00 min

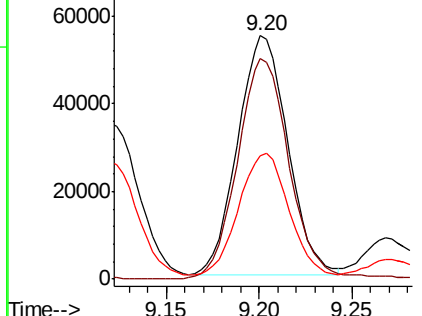
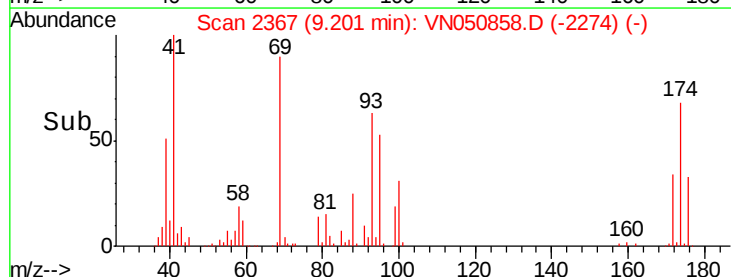
Lab File: VN050858.D

Acq: 23 Aug 2018 17:25

Tgt Ion:	41	Resp:	102838
Ion	Ratio	Lower	Upper
41	100		
69	95.6	74.7	112.1
39	53.3	42.2	63.2



Abundance Ion 41.00 (40.70 to 41.70): VN050858.D (-2274) (-)





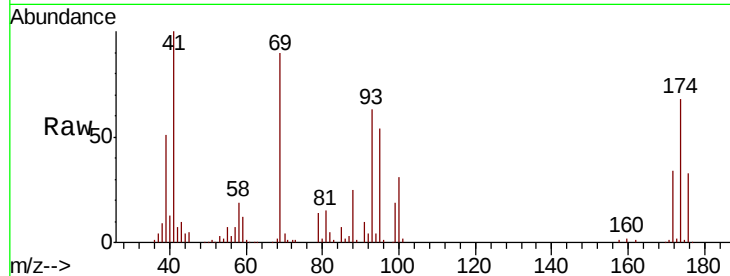
#49
1,4-Dioxane
Concen: 416.80 ug/l
RT: 9.20 min Scan# 2367
Delta R.T. -0.00 min
Lab File: VN050858.D
Acq: 23 Aug 2018 17:25

Instrument :
MSVOA_N
ClientSampleId :
VN0823MBS01

Tot Ion	88	Resp	29504
Ion Ratio	Lower	Upper	
88	100		
43	32.2	25.9	38.9
58	72.4	55.0	82.4

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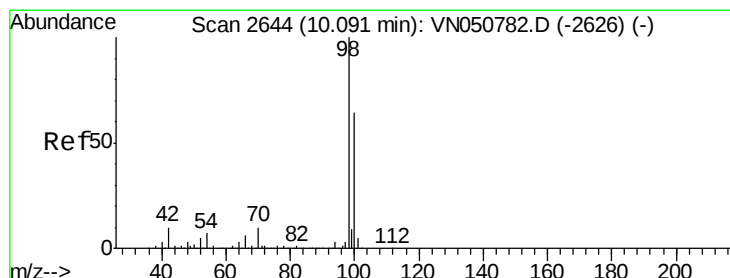
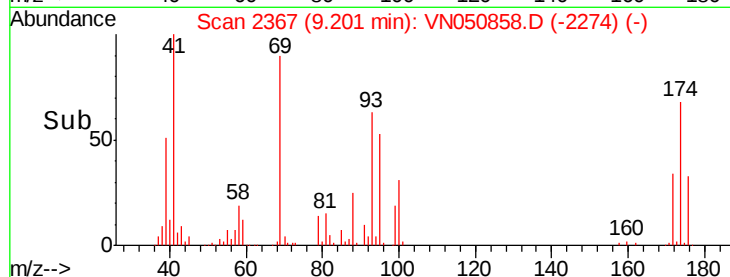
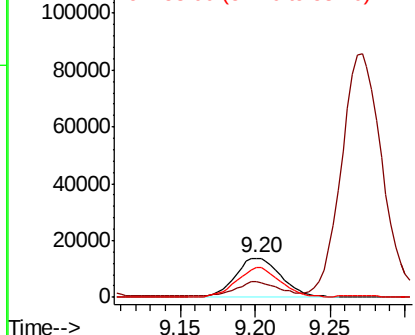


Abundance

Ion 88.00 (87.70 to 88.70): VN050858.D (-2274) (-)

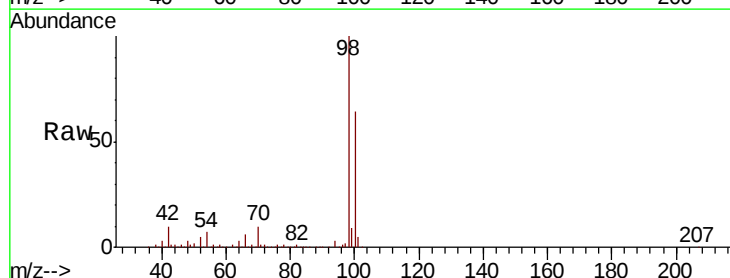
Ion 43.00 (42.70 to 43.70): VN050858.D (-2274) (-)

Ion 58.00 (57.70 to 58.70): VN050858.D (-2274) (-)



#50
Toluene-d8
Concen: 48.69 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. -0.00 min
Lab File: VN050858.D
Acq: 23 Aug 2018 17:25

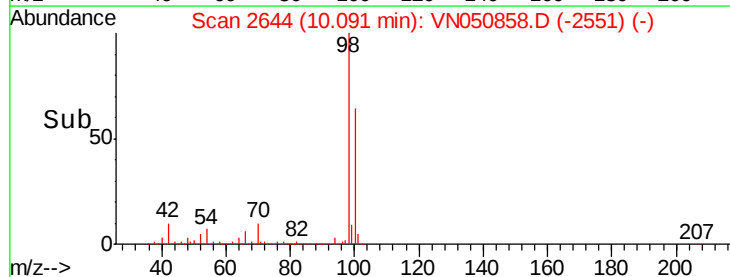
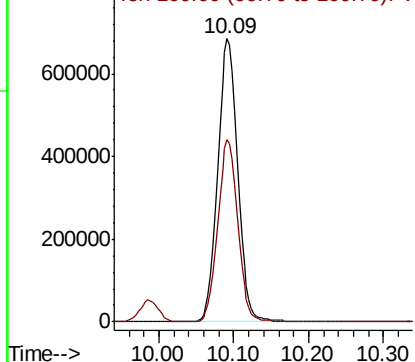
Tgt Ion	98	Resp	1266015
Ion Ratio	Lower	Upper	
98	100		
100	64.5	51.5	77.3

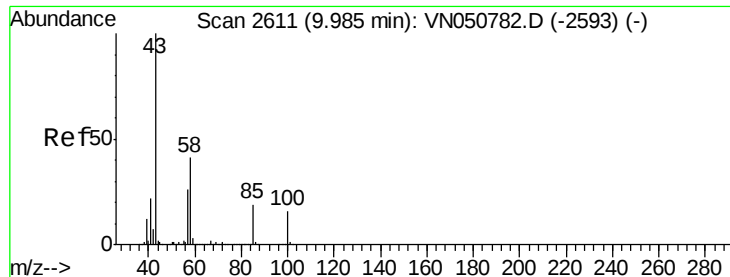


Abundance

Ion 98.00 (97.70 to 98.70): VN050858.D (-2551) (-)

Ion 100.00 (99.70 to 100.70): VN050858.D (-2551) (-)





#51

4-Methyl-2-Pentanone

Concen: 100.13 ug/l

RT: 9.99 min Scan# 2611

Delta R.T. -0.00 min

Lab File: VN050858.D

Acq: 23 Aug 2018 17:25

Instrument :

MSVOA_N

ClientSampleId :

VN0823MBS01

Tot Ion: 43 Resp: 608799

Ion Ratio Lower Upper

43 100

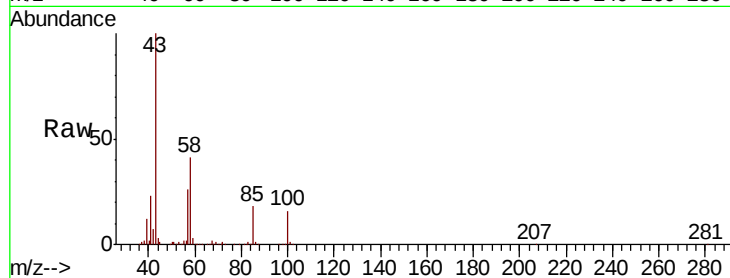
58 40.5 32.4 48.6

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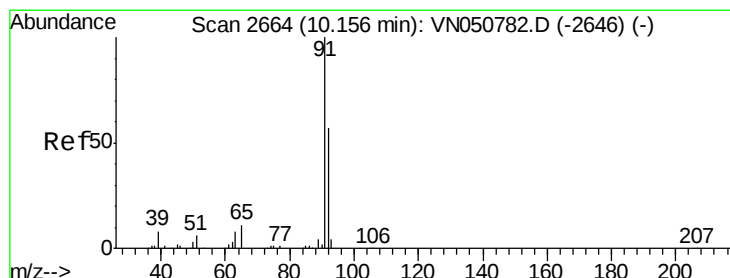
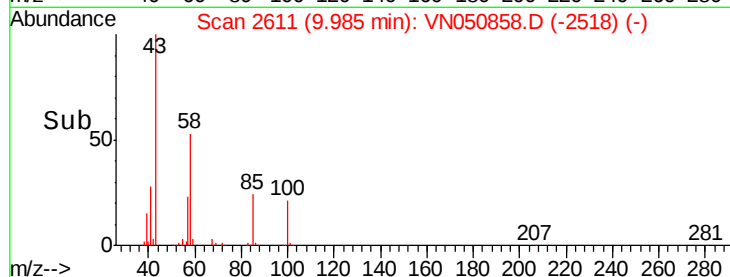
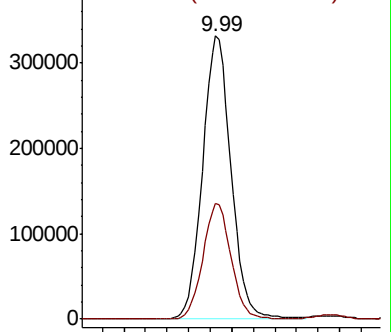
MMDadoda

8/24/2018 10:41:09 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 19.56 ug/l

RT: 10.16 min Scan# 2664

Delta R.T. -0.00 min

Lab File: VN050858.D

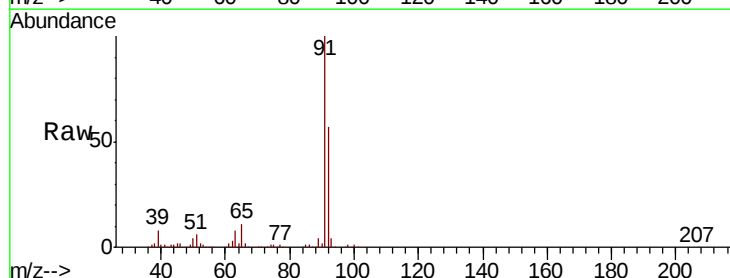
Acq: 23 Aug 2018 17:25

Tgt Ion: 92 Resp: 360358

Ion Ratio Lower Upper

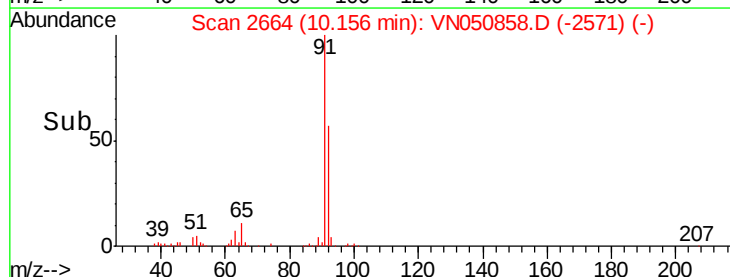
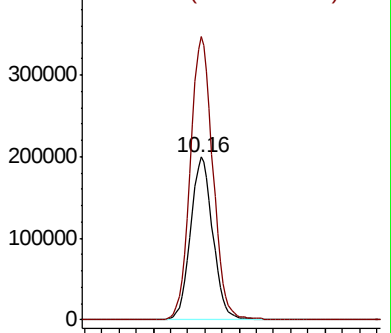
92 100

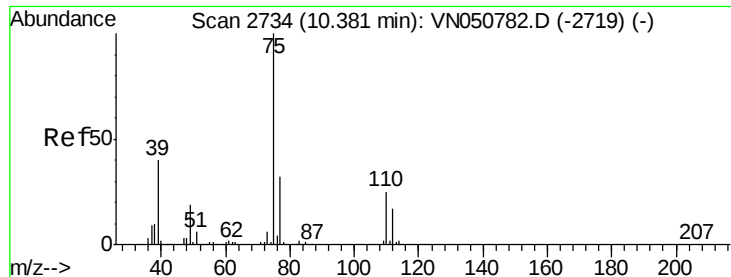
91 176.0 140.6 211.0



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





#53

t-1,3-Dichloropropene

Concen: 18.97 ug/l

RT: 10.38 min Scan# 2735

Delta R.T. 0.00 min

Lab File: VN050858.D

Acq: 23 Aug 2018 17:25

Instrument :

MSVOA_N

ClientSampled :

VN0823MBS01

Tot Ion: 75 Resp: 190018

Ion Ratio Lower Upper

75 100

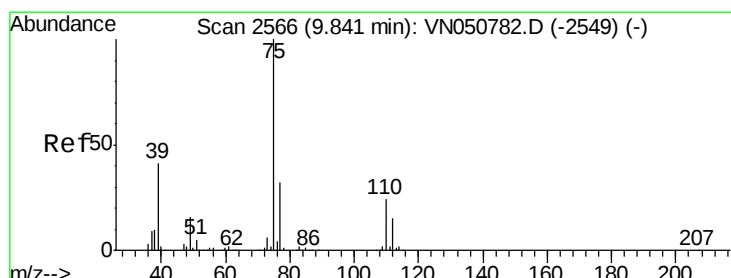
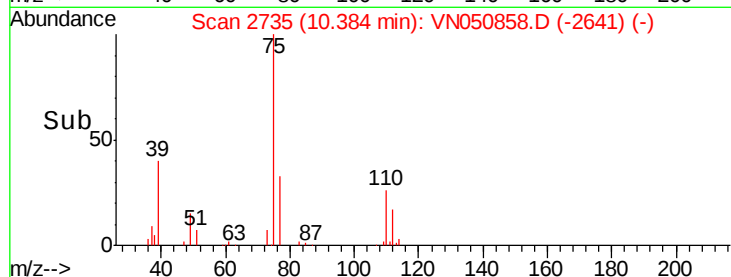
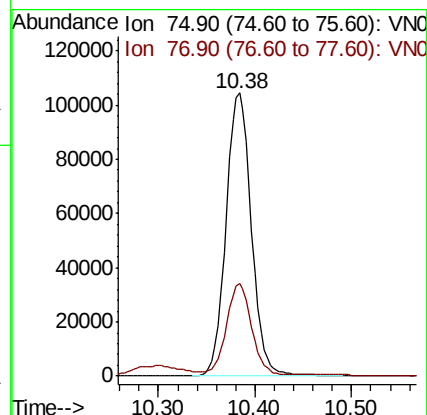
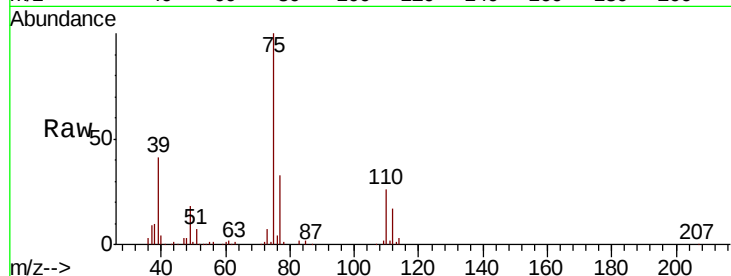
77 32.5 25.7 38.5

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#54

cis-1,3-Dichloropropene

Concen: 19.24 ug/l

RT: 9.84 min Scan# 2566

Delta R.T. -0.00 min

Lab File: VN050858.D

Acq: 23 Aug 2018 17:25

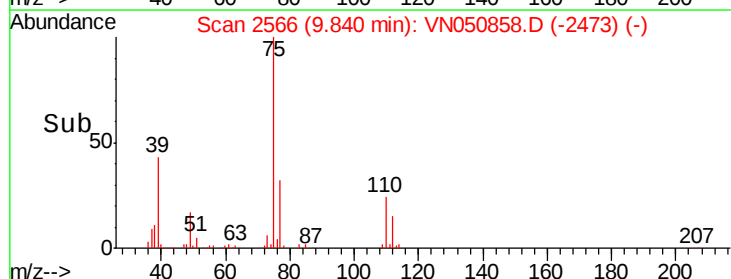
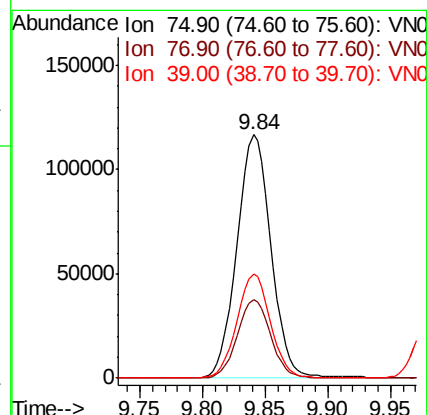
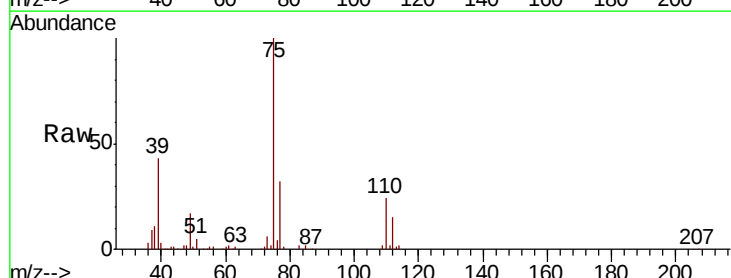
Tgt Ion: 75 Resp: 220591

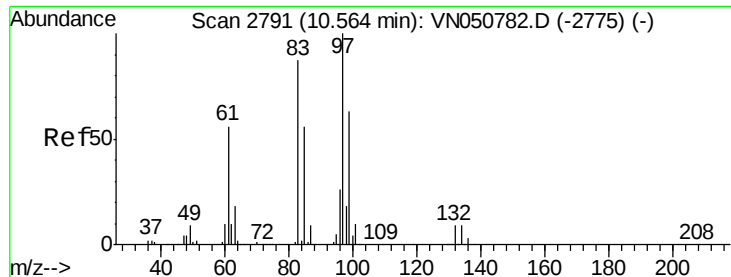
Ion Ratio Lower Upper

75 100

77 32.2 25.4 38.2

39 42.8 33.0 49.4





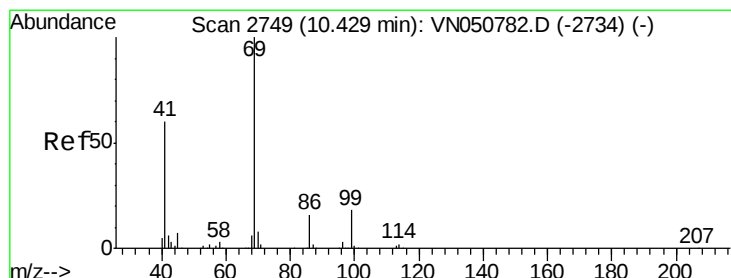
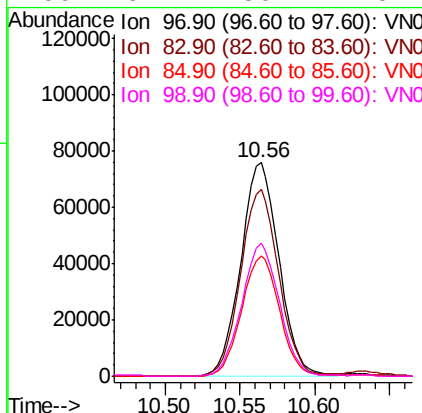
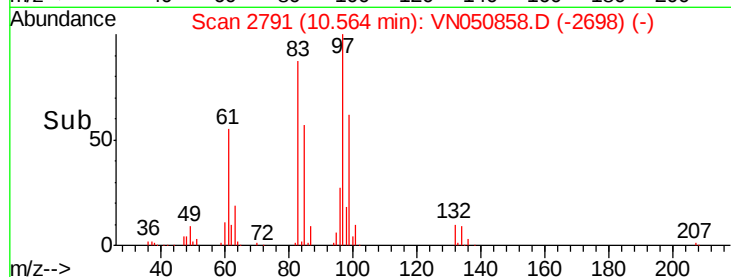
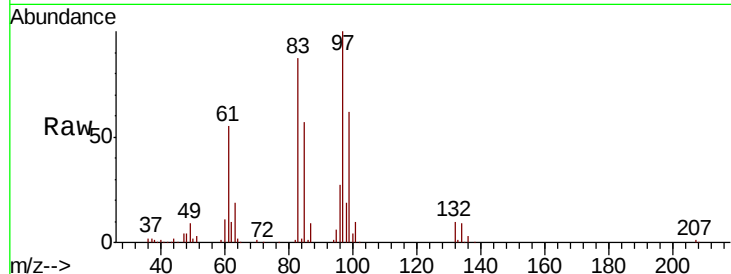
#55
 1,1,2-Trichloroethane
 Concen: 19.73 ug/l
 RT: 10.56 min Scan# 2791
 Delta R.T. -0.00 min
 Lab File: VN050858.D
 Acq: 23 Aug 2018 17:25

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0823MBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		134924		
83	87.3	69.7	104.5		
85	56.6	44.5	66.7		
99	62.4	50.7	76.1		

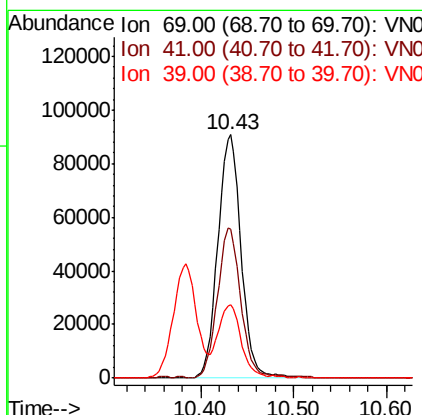
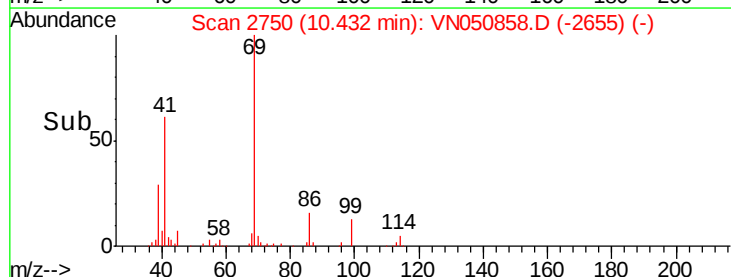
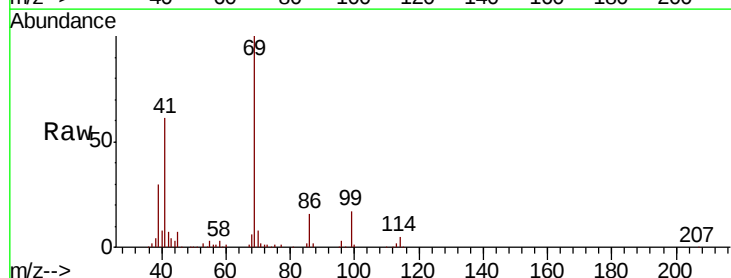
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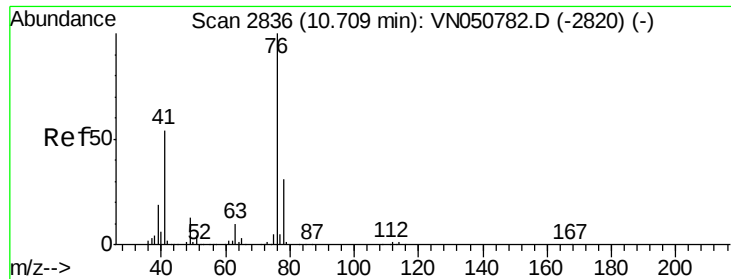
MMDadoda
 8/24/2018 10:41:09 AM



#56
 Ethyl methacrylate
 Concen: 19.32 ug/l
 RT: 10.43 min Scan# 2750
 Delta R.T. 0.00 min
 Lab File: VN050858.D
 Acq: 23 Aug 2018 17:25

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		158479		
41	61.0	48.3	72.5		
39	30.0	24.0	36.0		





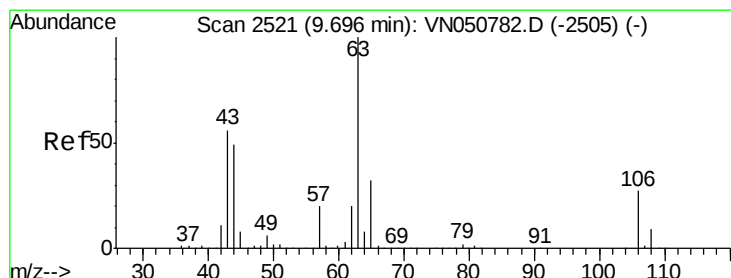
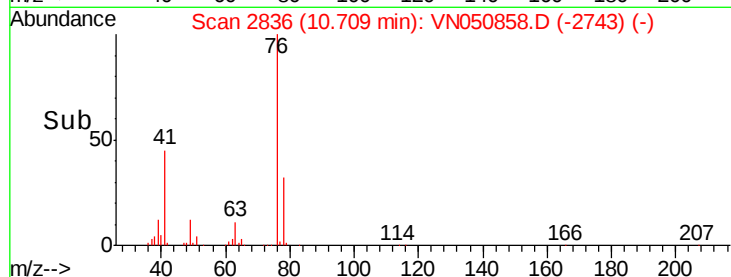
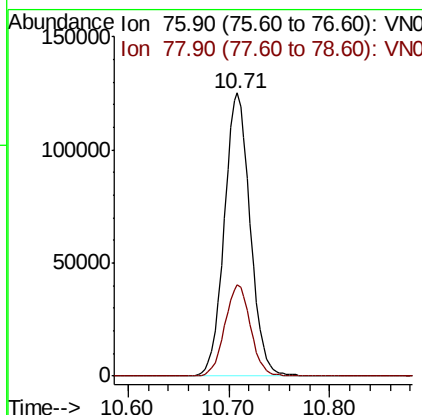
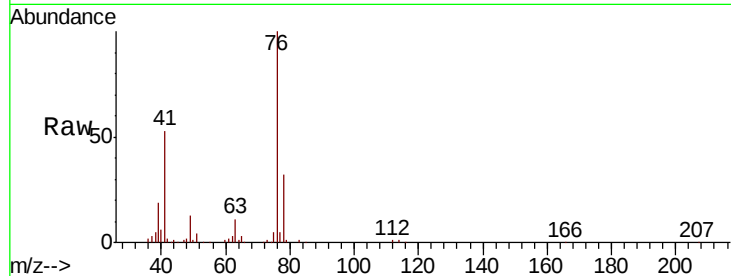
#57
 1,3-Dichloropropane
 Concen: 19.85 ug/l
 RT: 10.71 min Scan# 2836
 Delta R.T. -0.00 min
 Lab File: VN050858.D
 Acq: 23 Aug 2018 17:25

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0823MBS01

Tot Ion	Ratio	Lower	Upper
76	100		
78	32.4	25.5	38.3

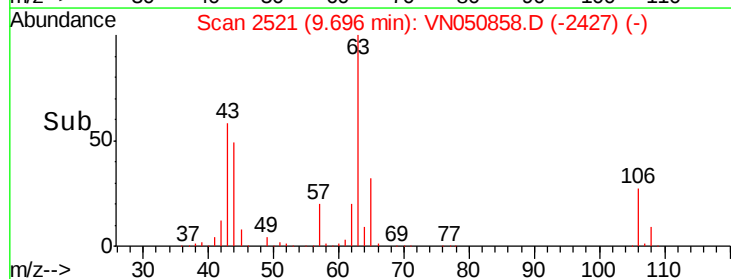
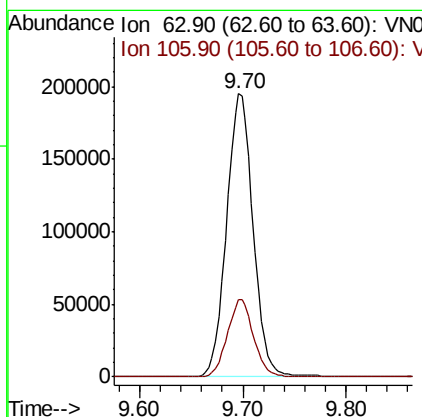
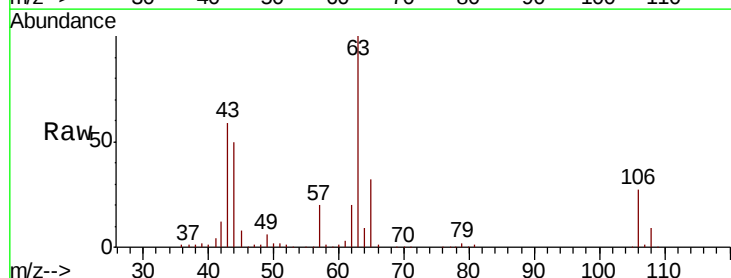
Manual Integrations
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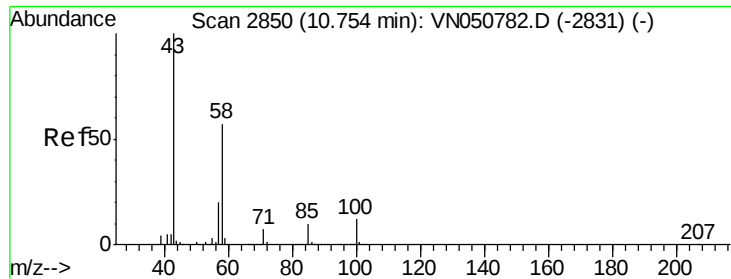
MMDadoda
 8/24/2018 10:41:09 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 98.10 ug/l
 RT: 9.70 min Scan# 2521
 Delta R.T. 0.00 min
 Lab File: VN050858.D
 Acq: 23 Aug 2018 17:25

Tgt Ion	Ratio	Lower	Upper
63	100		
106	27.1	21.9	32.9





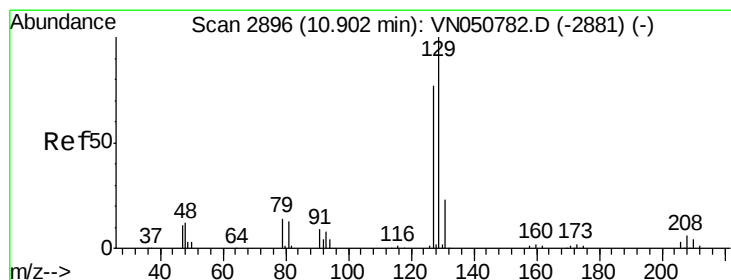
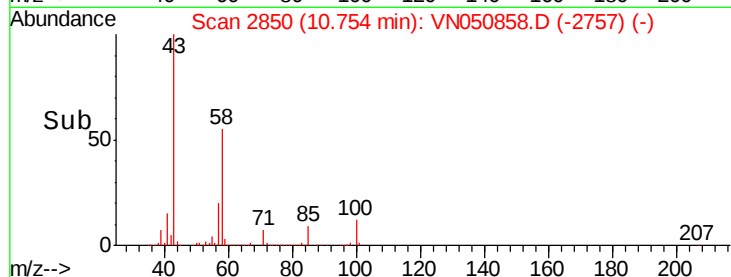
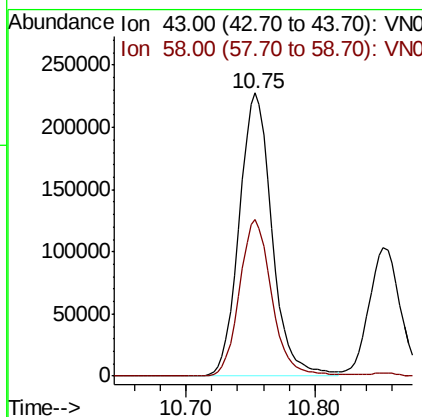
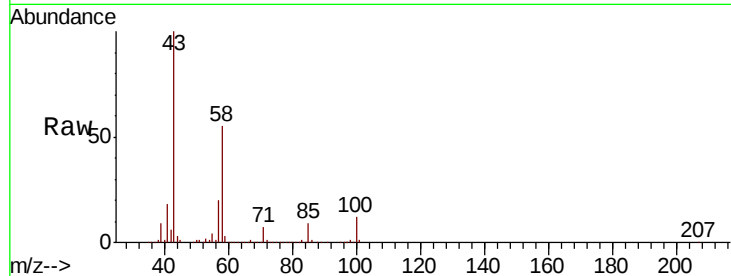
#59
2-Hexanone
Concen: 98.75 ug/l
RT: 10.75 min Scan# 2850
Delta R.T. -0.00 min
Lab File: VN050858.D
Acq: 23 Aug 2018 17:25

Instrument :
MSVOA_N
ClientSampled :
VN0823MBS01

Tot Ion	43	Resp	399720
Ion Ratio	Lower	Upper	
43	100		
58	55.1	28.3	85.0

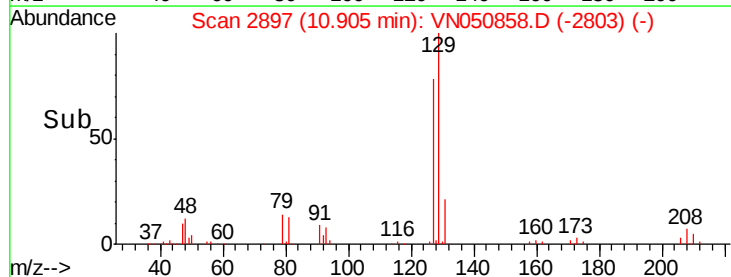
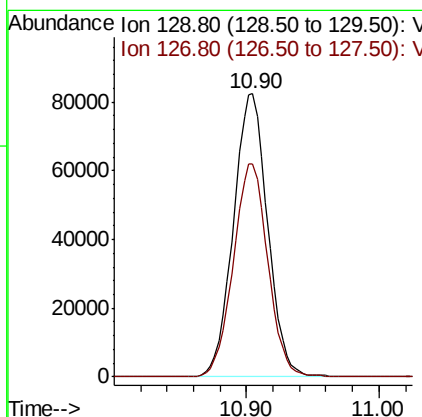
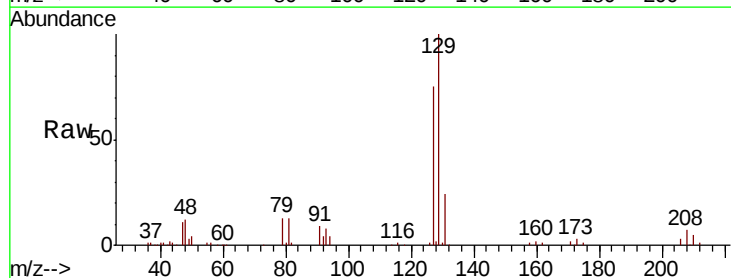
Manual Integrations
APPROVED

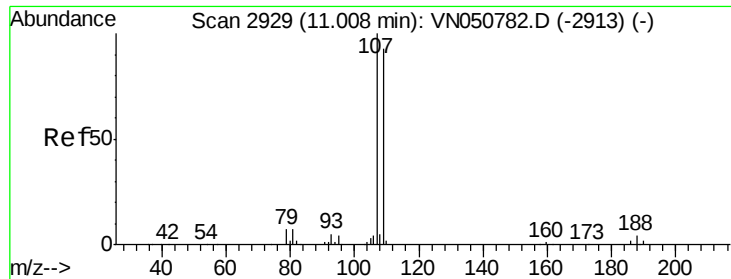
MMDadoda
8/24/2018 10:41:09 AM



#60
Dibromochloromethane
Concen: 19.30 ug/l
RT: 10.90 min Scan# 2897
Delta R.T. 0.00 min
Lab File: VN050858.D
Acq: 23 Aug 2018 17:25

Tgt Ion	129	Resp	147782
Ion Ratio	Lower	Upper	
129	100		
127	76.0	38.3	114.9





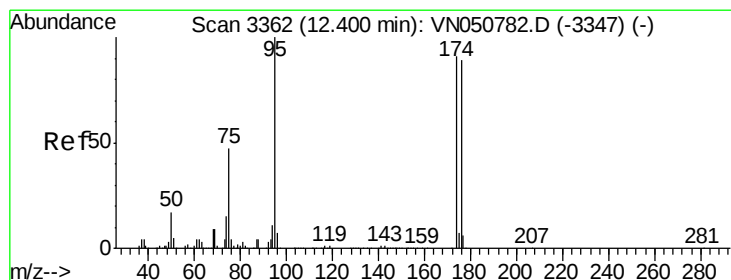
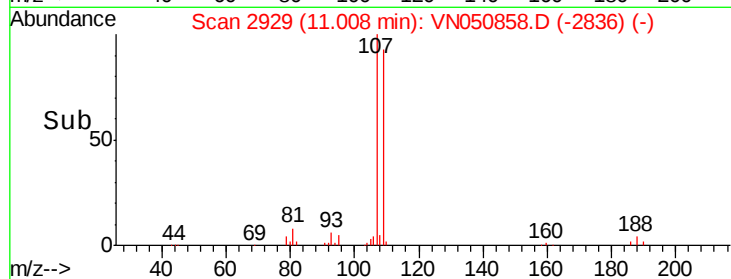
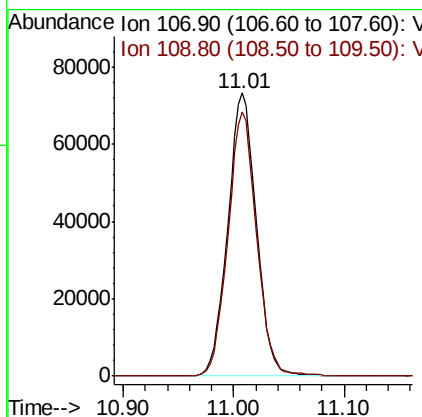
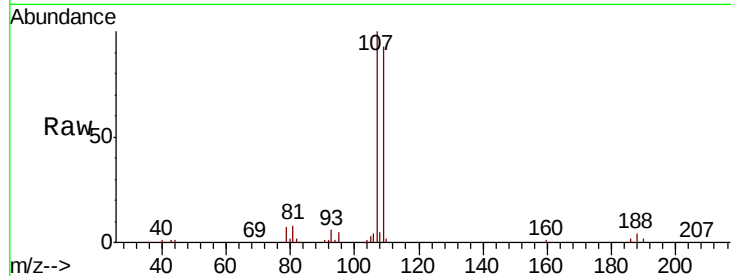
#61
 1,2-Dibromoethane
 Concen: 19.89 ug/l
 RT: 11.01 min Scan# 2929
 Delta R.T. -0.00 min
 Lab File: VN050858.D
 Acq: 23 Aug 2018 17:25

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0823MBS01

Tot Ion	Ratio	Lower	Upper
107	100		
109	93.5	75.4	113.2

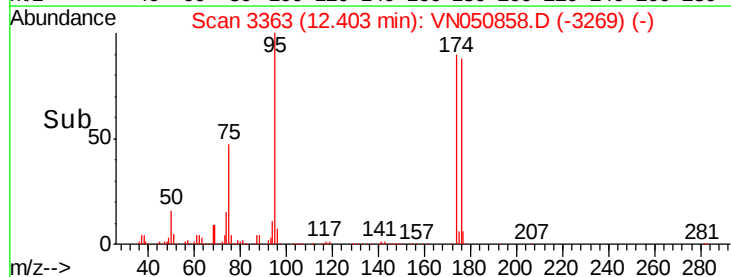
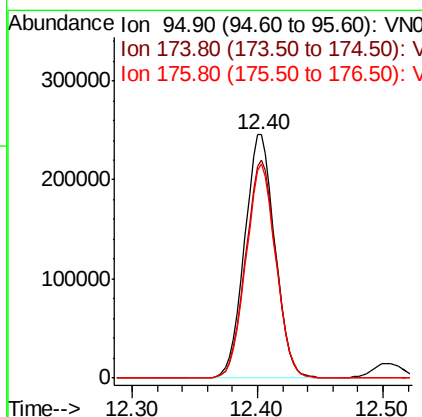
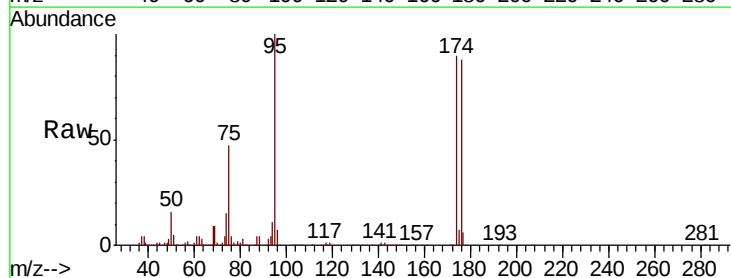
Manual Integrations
 APPROVED

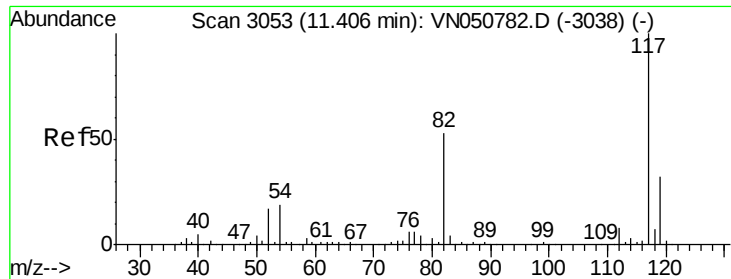
MMDadoda
 8/24/2018 10:41:09 AM



#62
 4-Bromofluorobenzene
 Concen: 47.95 ug/l
 RT: 12.40 min Scan# 3363
 Delta R.T. 0.00 min
 Lab File: VN050858.D
 Acq: 23 Aug 2018 17:25

Tgt Ion	Ratio	Lower	Upper
95	100		
174	89.1	0.0	183.0
176	86.7	0.0	178.8





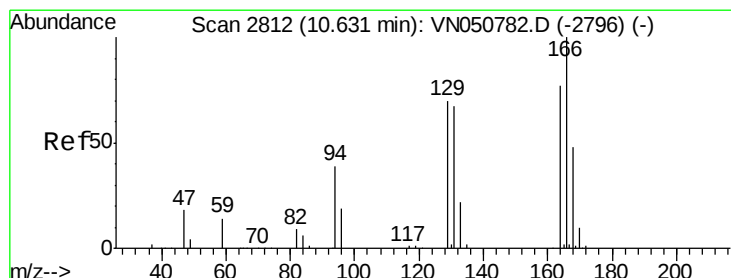
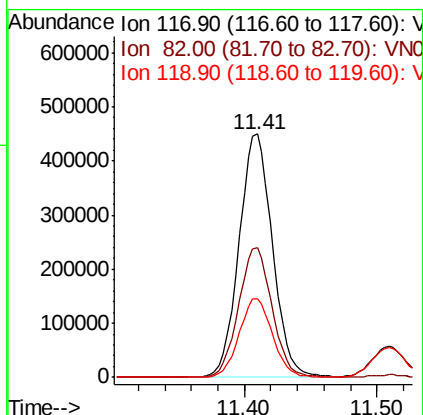
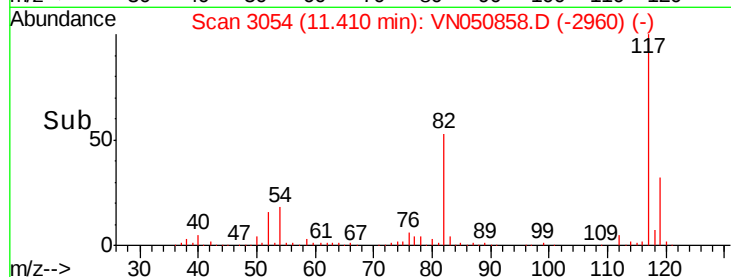
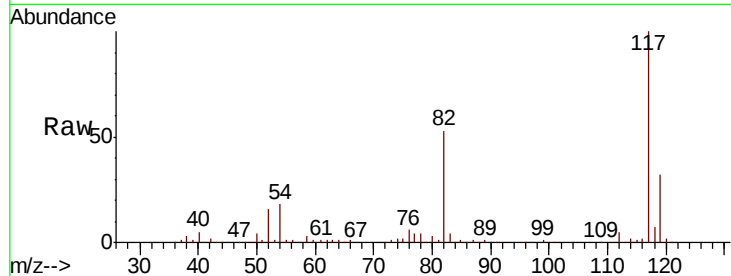
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050858.D
Acq: 23 Aug 2018 17:25

Instrument :
MSVOA_N
ClientSampled :
VN0823MBS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.0	42.6	64.0
119	32.4	25.8	38.6

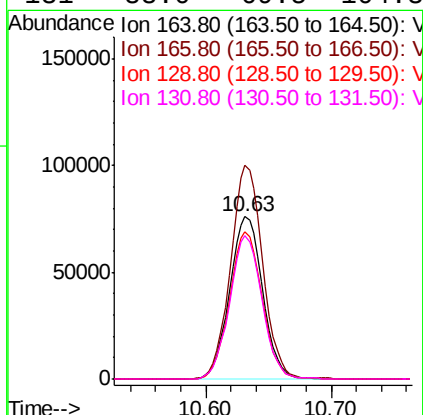
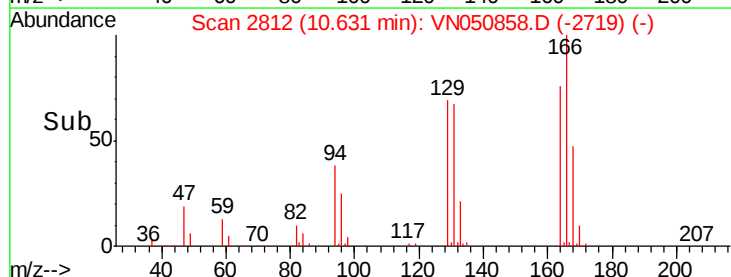
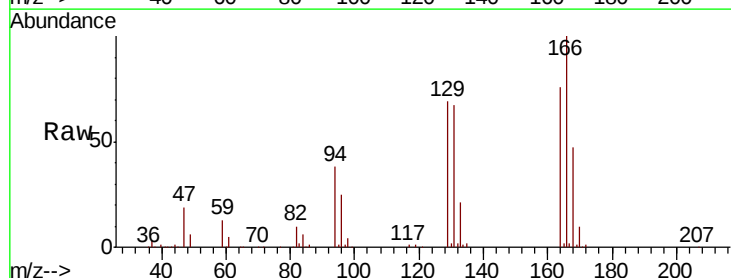
Manual Integrations
APPROVED

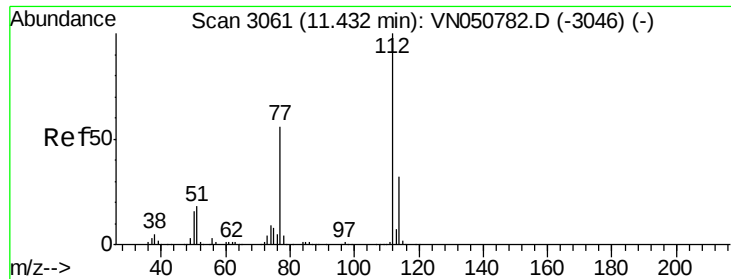
MMDadoda
8/24/2018 10:41:09 AM



#64
Tetrachloroethene
Concen: 18.54 ug/l
RT: 10.63 min Scan# 2812
Delta R.T. -0.00 min
Lab File: VN050858.D
Acq: 23 Aug 2018 17:25

Tgt Ion	Ratio	Lower	Upper
164	100		
166	131.6	103.5	155.3
129	90.6	72.7	109.1
131	88.0	69.5	104.3





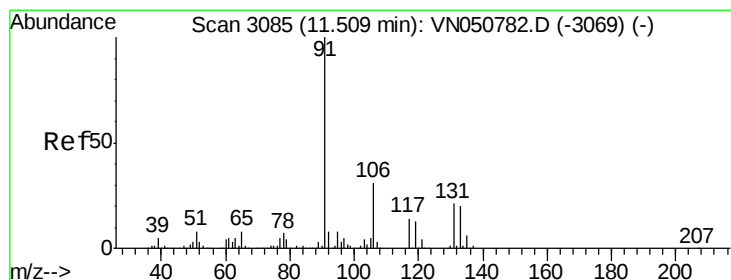
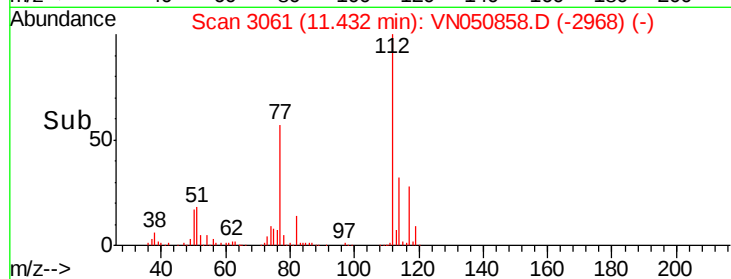
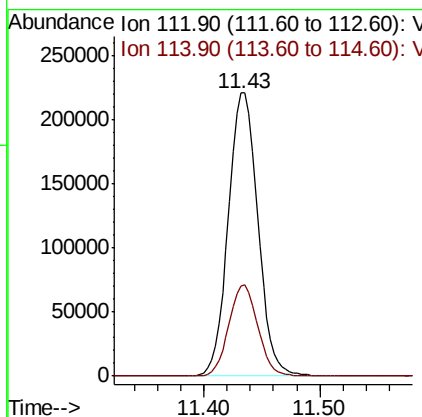
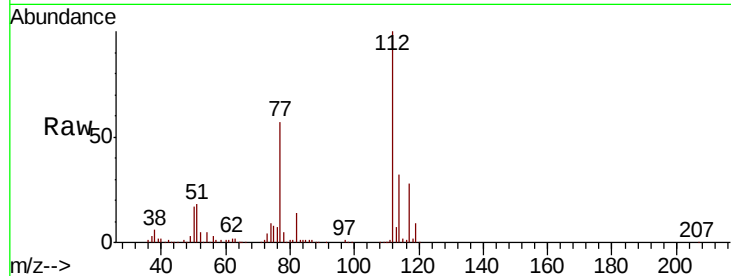
#65
Chlorobenzene
Concen: 19.00 ug/l
RT: 11.43 min Scan# 3061
Delta R.T. -0.00 min
Lab File: VN050858.D
Acq: 23 Aug 2018 17:25

Instrument :
MSVOA_N
ClientSampleId :
VN0823MBS01

Tot Ion	Ratio	Lower	Upper
112	100		
114	31.9	25.6	38.4

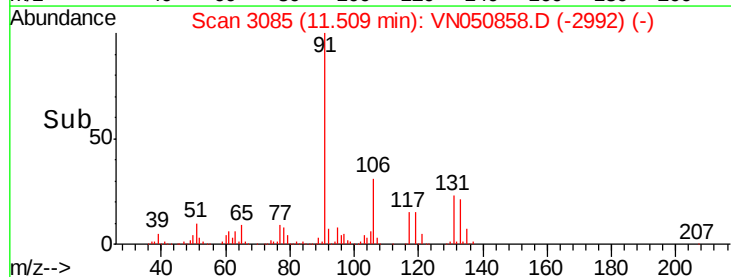
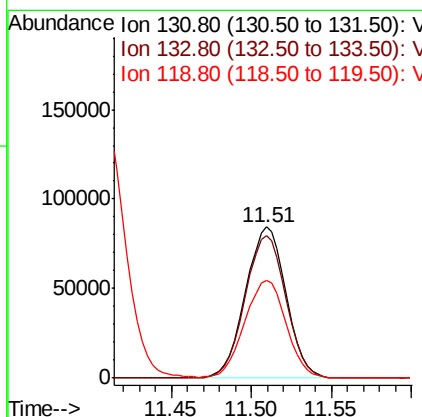
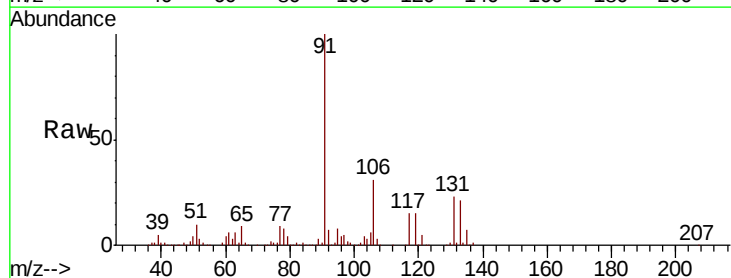
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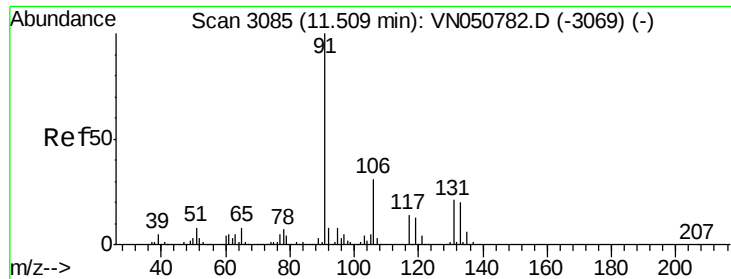
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#66
1,1,1,2-Tetrachloroethane
Concen: 19.47 ug/l
RT: 11.51 min Scan# 3085
Delta R.T. -0.00 min
Lab File: VN050858.D
Acq: 23 Aug 2018 17:25

Tgt Ion	Ratio	Lower	Upper
131	100		
133	95.4	47.4	142.3
119	66.2	32.8	98.4





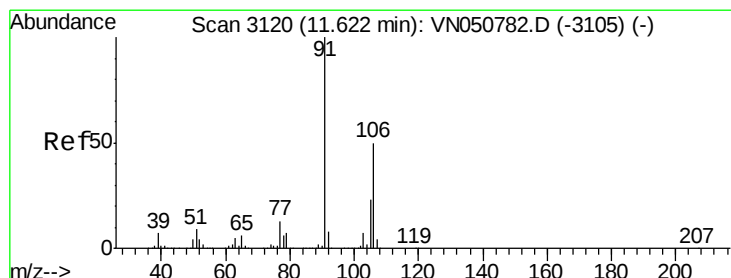
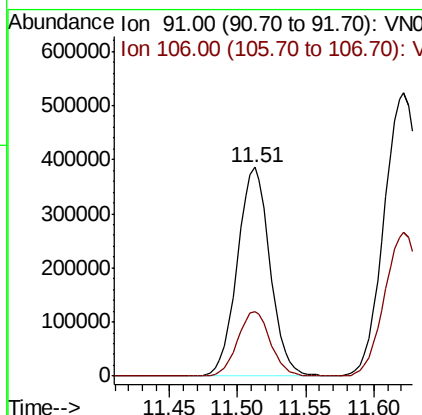
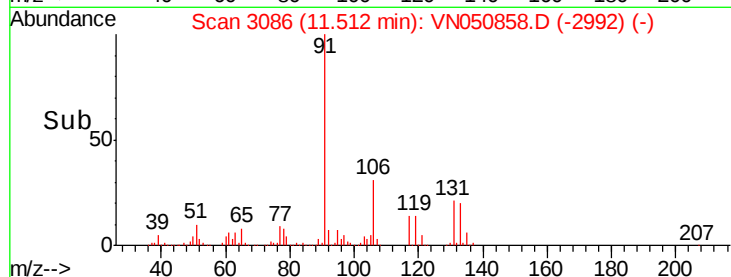
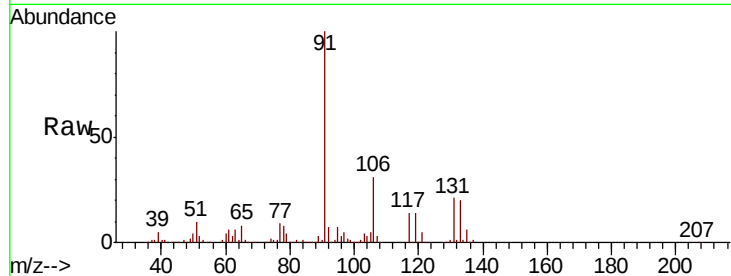
#67
Ethyl Benzene
Concen: 19.16 ug/l
RT: 11.51 min Scan# 3086
Delta R.T. 0.00 min
Lab File: VN050858.D
Acq: 23 Aug 2018 17:25

Instrument :
MSVOA_N
ClientSampled :
VN0823MBS01

Tot Ion: 91 Resp: 641004
Ion Ratio Lower Upper
91 100
106 31.2 25.0 37.4

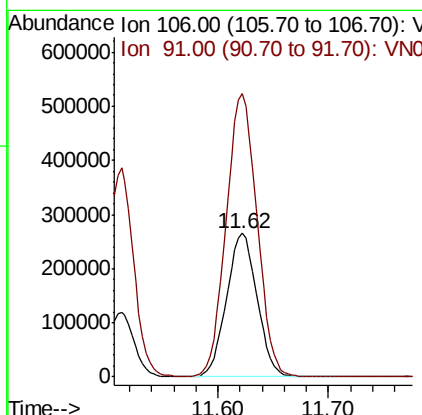
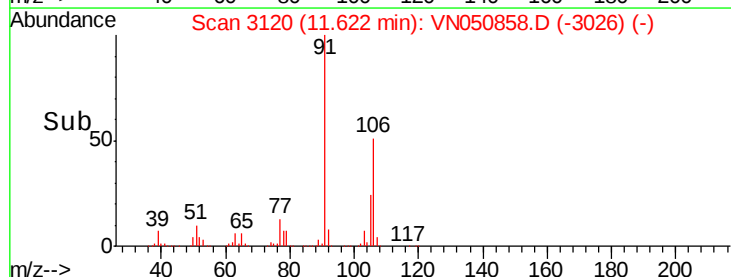
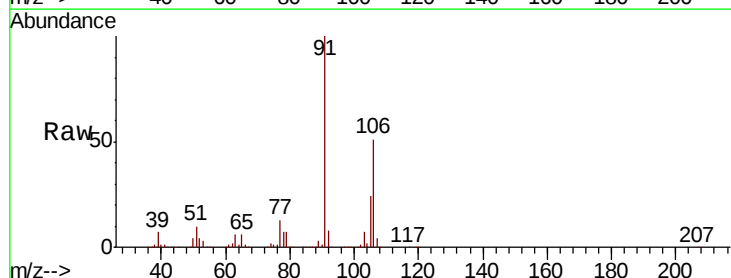
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#68
m/p-Xylenes
Concen: 40.05 ug/l
RT: 11.62 min Scan# 3120
Delta R.T. 0.00 min
Lab File: VN050858.D
Acq: 23 Aug 2018 17:25

Tgt Ion: 106 Resp: 508576
Ion Ratio Lower Upper
106 100
91 199.5 161.0 241.6





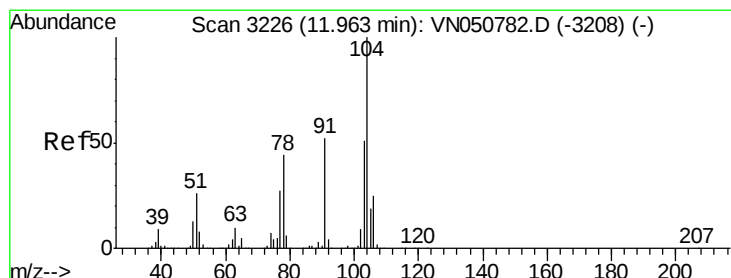
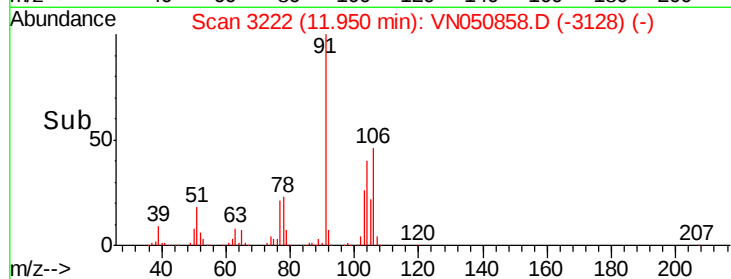
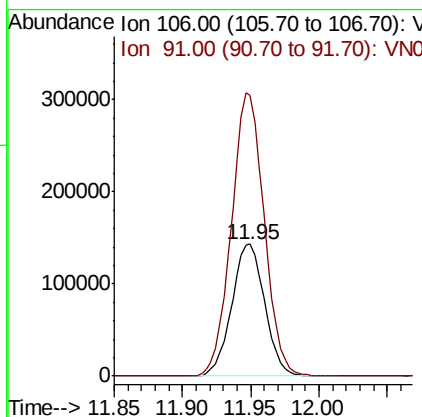
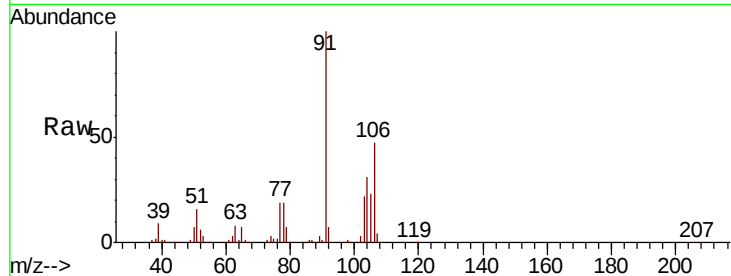
#69
o-Xylene
Concen: 19.67 ug/l
RT: 11.95 min Scan# 3222
Delta R.T. 0.00 min
Lab File: VN050858.D
Acq: 23 Aug 2018 17:25

Instrument :
MSVOA_N
ClientSampled :
VN0823MBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	100		240138		
91	213.1	106.5	319.5		

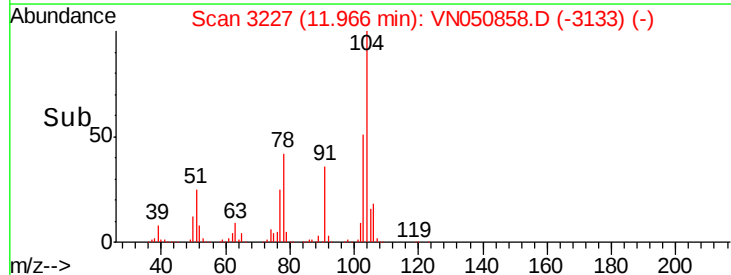
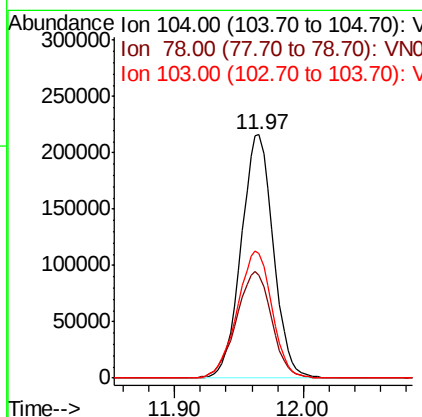
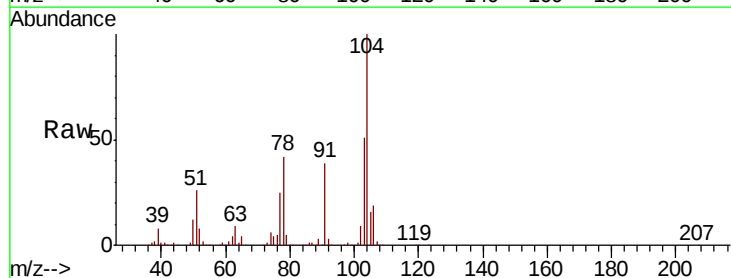
Manual Integrations
APPROVED

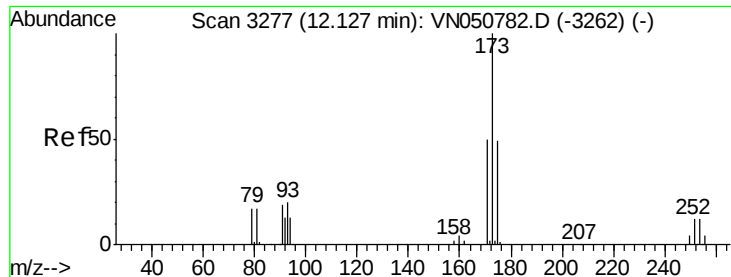
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#70
Styrene
Concen: 18.26 ug/l
RT: 11.97 min Scan# 3227
Delta R.T. 0.00 min
Lab File: VN050858.D
Acq: 23 Aug 2018 17:25

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	100		375038		
78	48.3	38.2	57.4		
103	56.6	44.4	66.6		





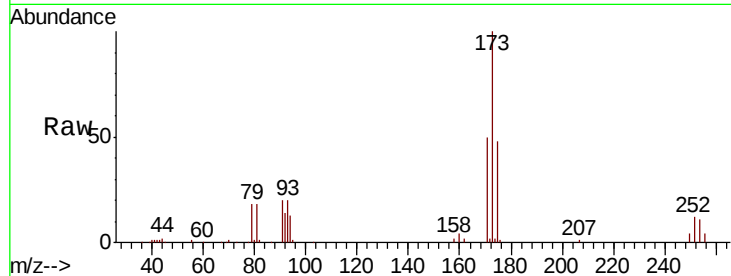
#71
Bromoform
Concen: 19.78 ug/l
RT: 12.13 min Scan# 3277
Delta R.T. -0.00 min
Lab File: VN050858.D
Acq: 23 Aug 2018 17:25

Instrument :
MSVOA_N
ClientSampleId :
VN0823MBS01

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.0	24.4	73.4
254	0.0	0.1	0.1#

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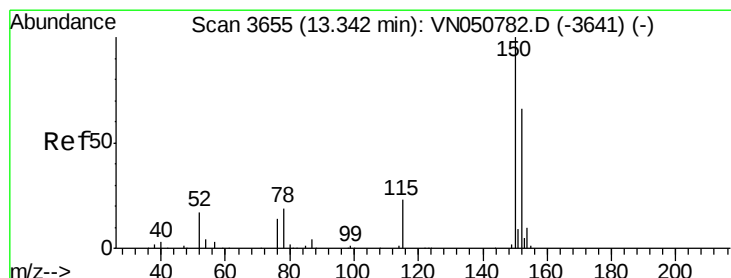
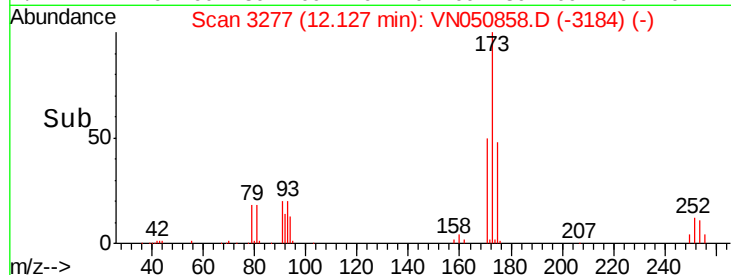
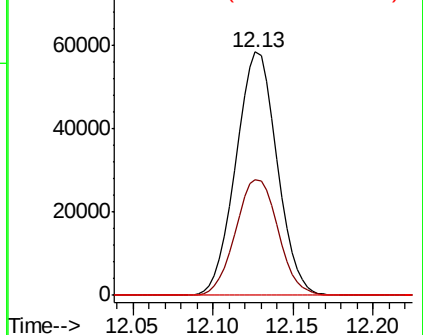


Abundance

Ion 172.70 (172.40 to 173.40): V

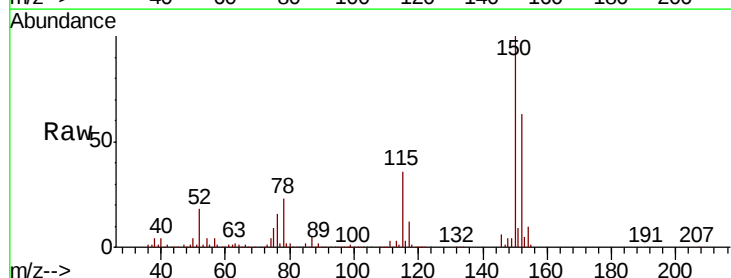
Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.34 min Scan# 3655
Delta R.T. -0.00 min
Lab File: VN050858.D
Acq: 23 Aug 2018 17:25

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.8	27.8	83.4
150	163.9	0.0	351.4

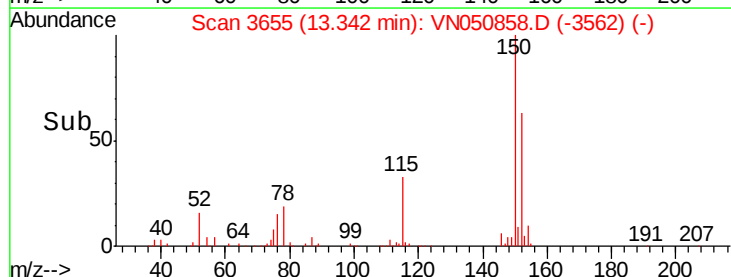
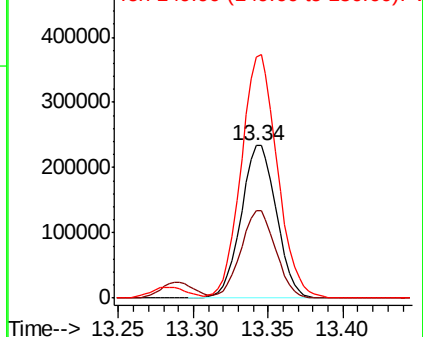


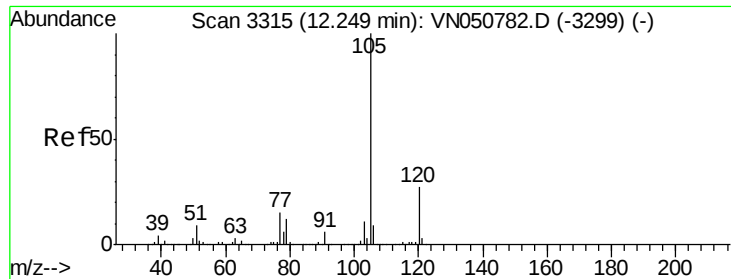
Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 20.00 ug/l

RT: 12.25 min Scan# 3315

Delta R.T. -0.00 min

Lab File: VN050858.D

Acq: 23 Aug 2018 17:25

Instrument :

MSVOA_N

ClientSampleId :

VN0823MBS01

Tot Ion: 105 Resp: 634993

Ion Ratio Lower Upper

105 100

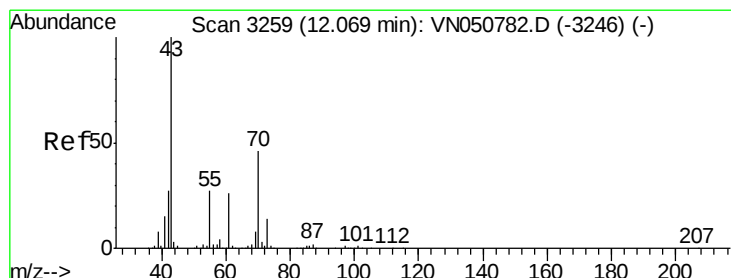
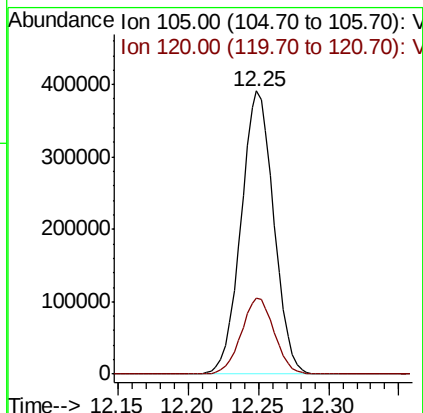
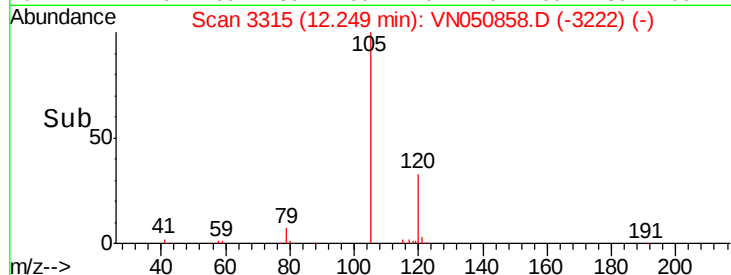
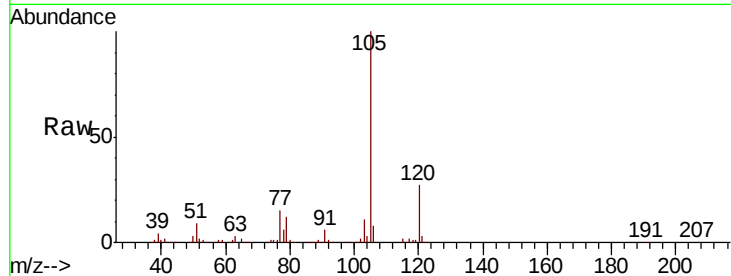
120 27.0 13.5 40.4

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#74

N-ethyl acetate

Concen: 20.85 ug/l

RT: 12.07 min Scan# 3259

Delta R.T. -0.00 min

Lab File: VN050858.D

Acq: 23 Aug 2018 17:25

Tgt Ion: 43 Resp: 166366

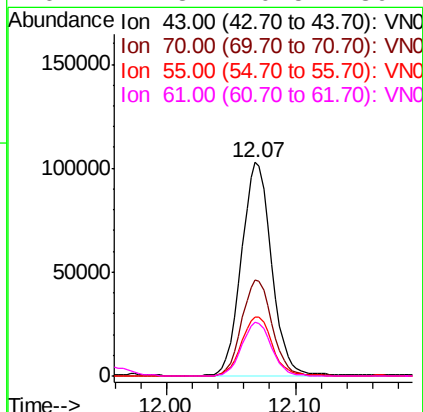
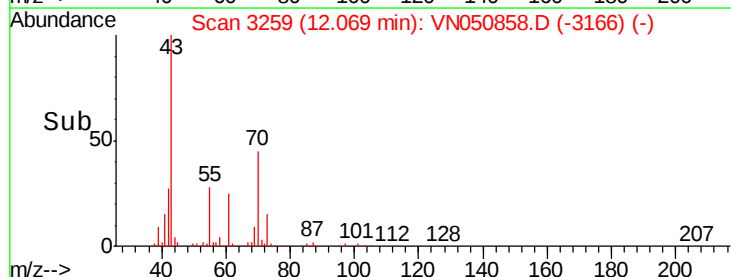
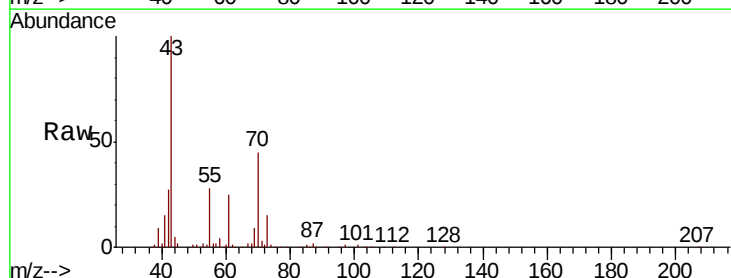
Ion Ratio Lower Upper

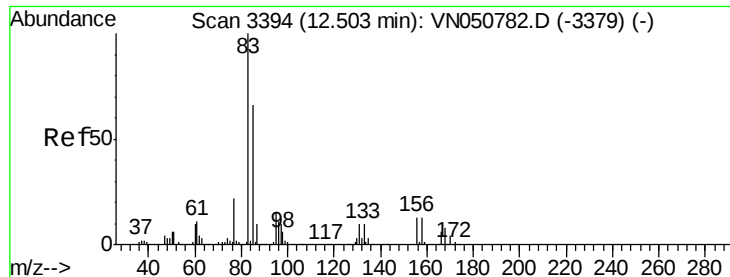
43 100

70 45.7 36.2 54.2

55 28.8 21.8 32.8

61 24.8 20.5 30.7





#75

1,1,2,2-Tetrachloroethane

Concen: 21.74 ug/l

RT: 12.50 min Scan# 3394

Delta R.T. 0.00 min

Lab File: VN050858.D

Acq: 23 Aug 2018 17:25

Instrument :

MSVOA_N

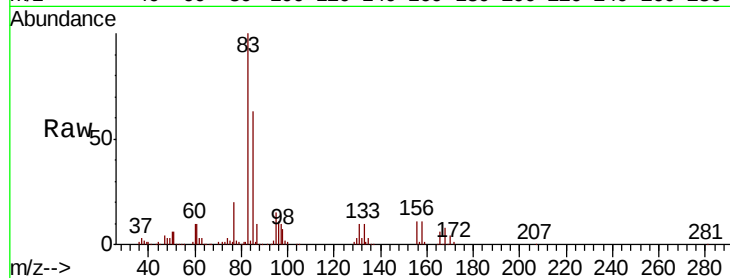
ClientSampled :

VN0823MBS01

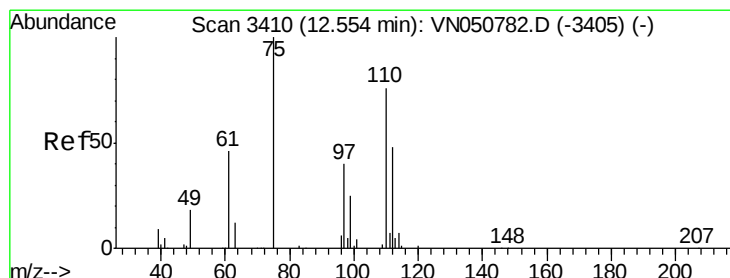
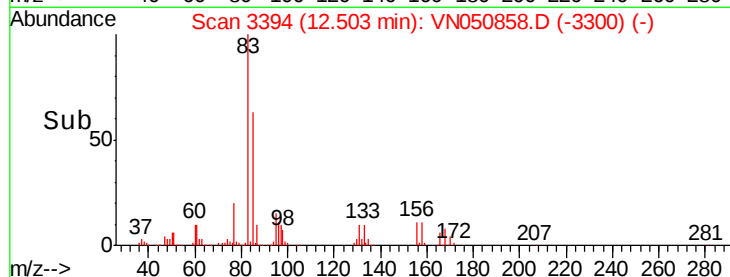
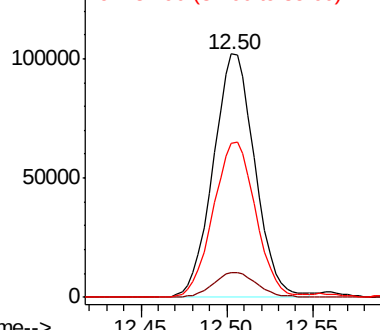
Tot Ion:	83	Resp:	171540
Ion Ratio	Lower	Upper	
83	100		
131	10.6	5.3	15.9
85	64.6	31.9	95.7

Manual Integrations
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Abundance Ion 82.90 (82.60 to 83.60): VN050858.D (-3300) (-)



#76

1,2,3-Trichloropropane

Concen: 21.88 ug/l m

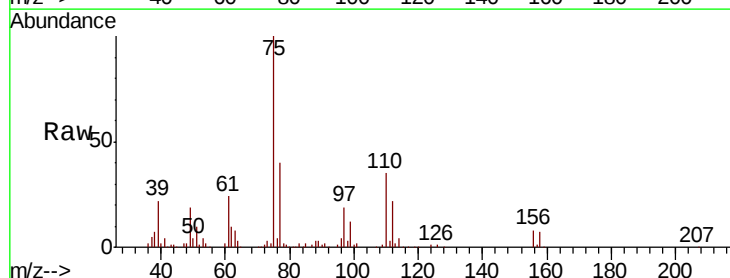
RT: 12.55 min Scan# 3410

Delta R.T. -0.00 min

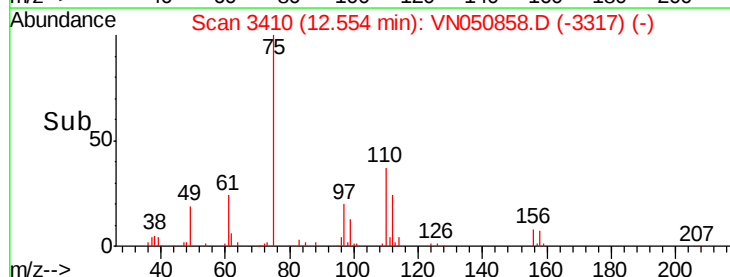
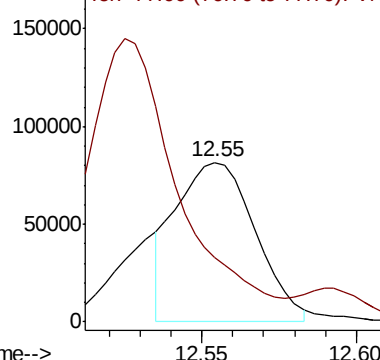
Lab File: VN050858.D

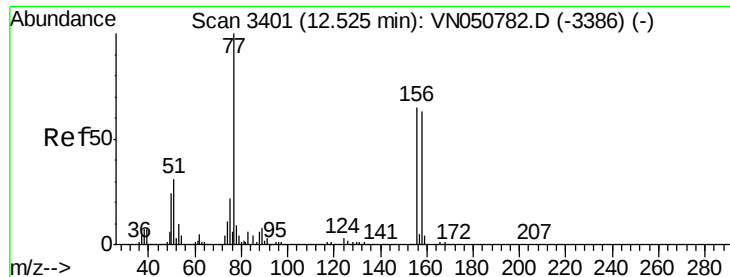
Acq: 23 Aug 2018 17:25

Tgt Ion:	75	Resp:	146958
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0



Abundance Ion 74.90 (74.60 to 75.60): VN050858.D (-3317) (-)





#77

Bromobenzene

Concen: 19.12 ug/l

RT: 12.53 min Scan# 3401

Delta R.T. -0.00 min

Lab File: VN050858.D

Acq: 23 Aug 2018 17:25

Instrument :

MSVOA_N

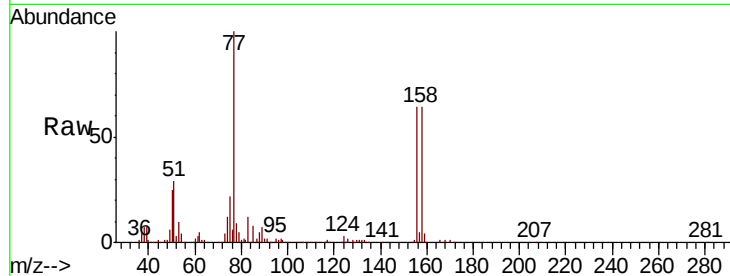
ClientSampleId :

VN0823MBS01

Tot Ion:	156	Resp:	164951
Ion Ratio	Lower	Upper	
156	100		
77	181.9	89.9	269.7
158	96.9	49.3	147.9

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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

200000

150000

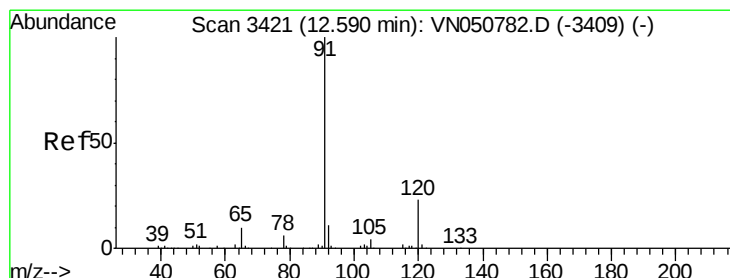
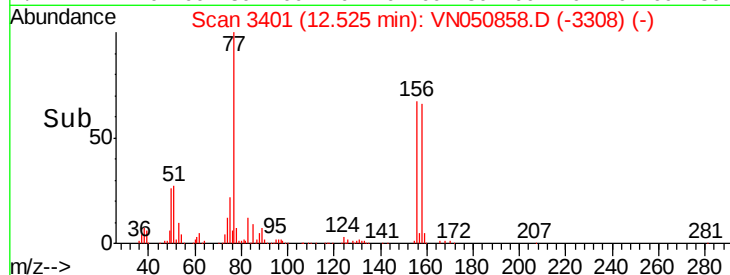
100000

50000

0

12.45 12.50 12.55 12.60

Time-->



#78

n-propylbenzene

Concen: 20.00 ug/l

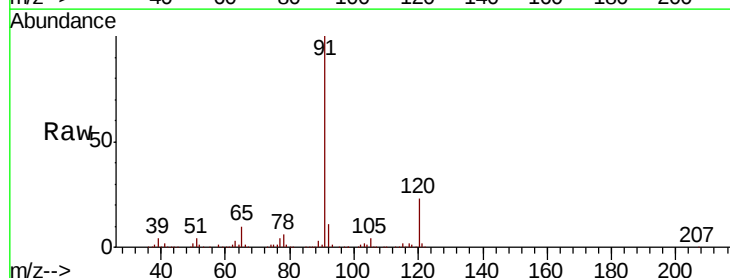
RT: 12.59 min Scan# 3422

Delta R.T. 0.00 min

Lab File: VN050858.D

Acq: 23 Aug 2018 17:25

Tgt Ion:	91	Resp:	709412
Ion Ratio	Lower	Upper	
91	100		
120	23.4	11.7	35.0



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V

500000

400000

300000

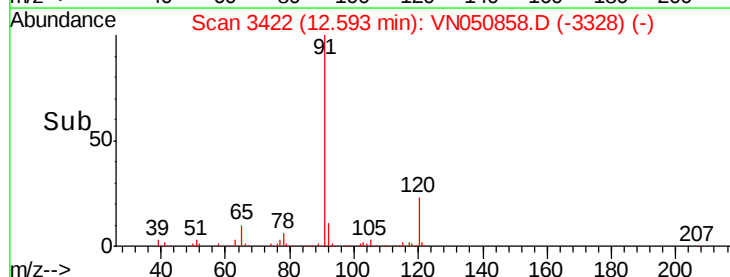
200000

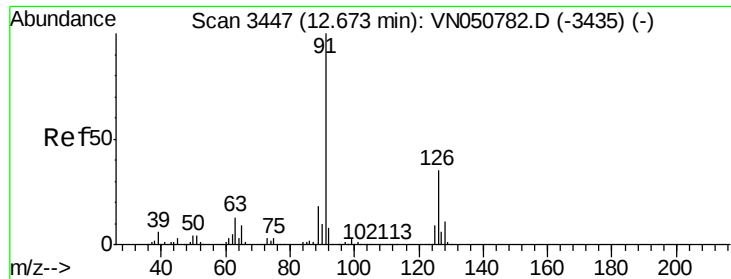
100000

0

12.55 12.60 12.65

Time-->





#79

2-Chlorotoluene

Concen: 19.71 ug/l

RT: 12.68 min Scan# 3448

Delta R.T. 0.00 min

Lab File: VN050858.D

Acq: 23 Aug 2018 17:25

Instrument :

MSVOA_N

ClientSampled :

VN0823MBS01

Tot Ion: 91 Resp: 435441

Ion Ratio Lower Upper

91 100

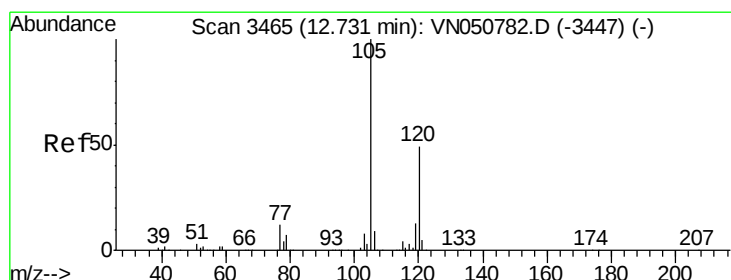
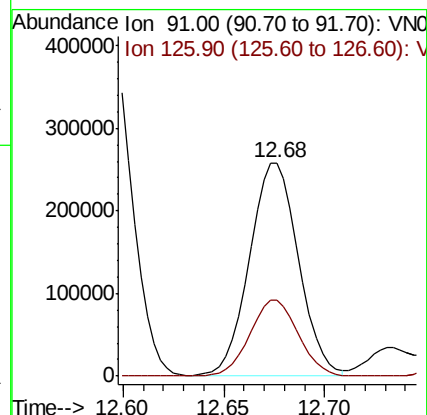
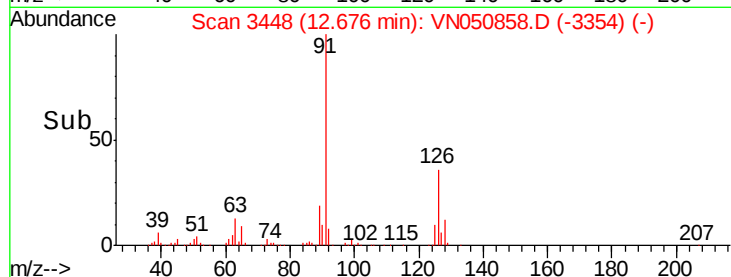
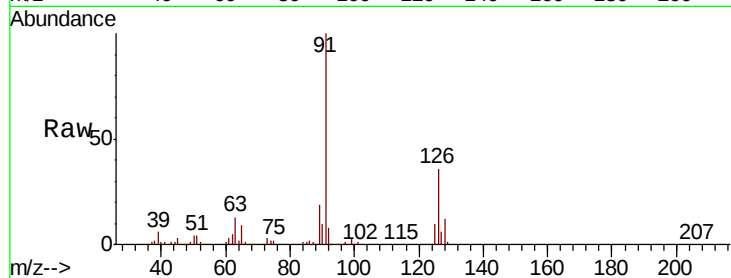
126 35.6 17.8 53.3

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#80

1,3,5-Trimethylbenzene

Concen: 20.56 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. 0.00 min

Lab File: VN050858.D

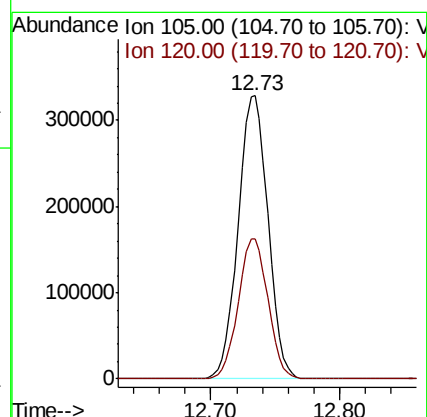
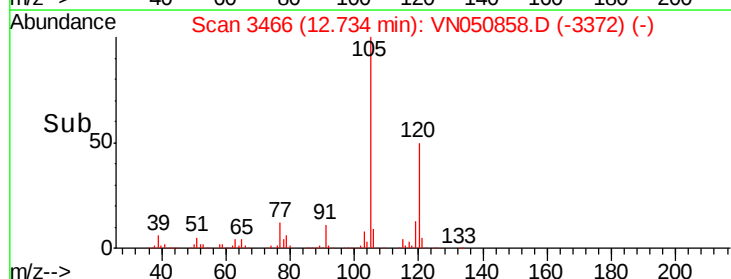
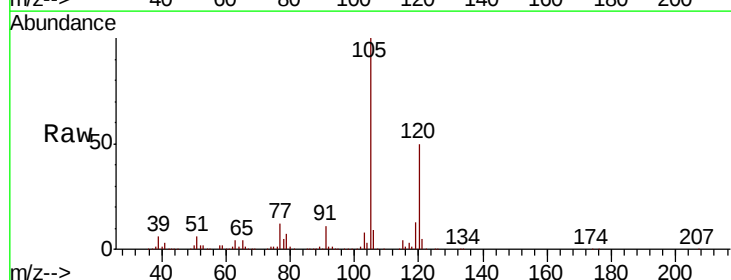
Acq: 23 Aug 2018 17:25

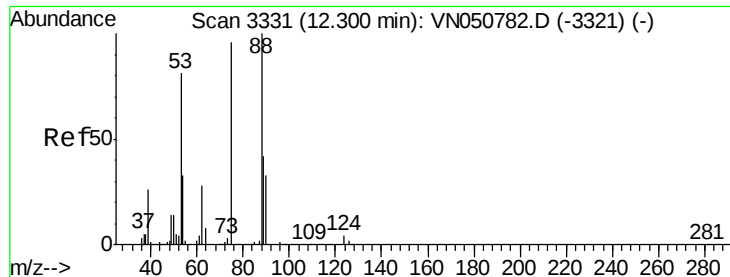
Tgt Ion: 105 Resp: 526629

Ion Ratio Lower Upper

105 100

120 49.4 24.6 74.0





#81

trans-1,4-Dichloro-2-butene

Concen: 21.16 ug/l

RT: 12.30 min Scan# 3331

Delta R.T. 0.00 min

Lab File: VN050858.D

Acq: 23 Aug 2018 17:25

Instrument :

MSVOA_N

ClientSampleId :

VN0823MBS01

Tot Ion: 75 Resp: 42029

Ion Ratio Lower Upper

75 100

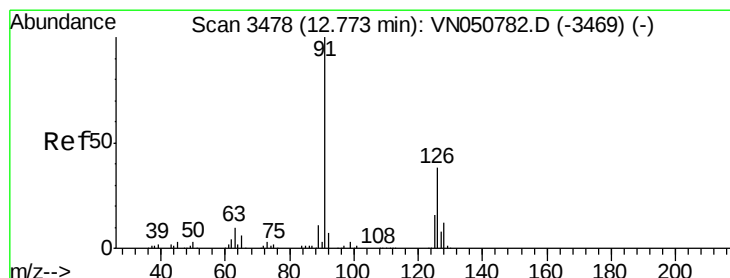
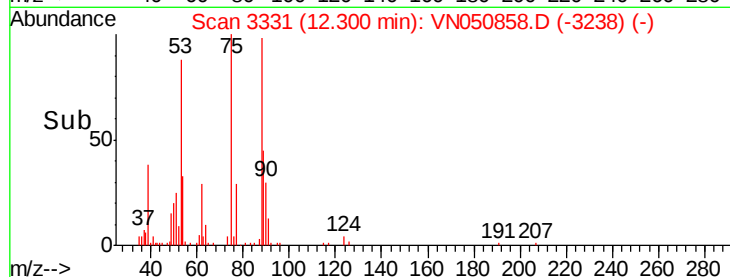
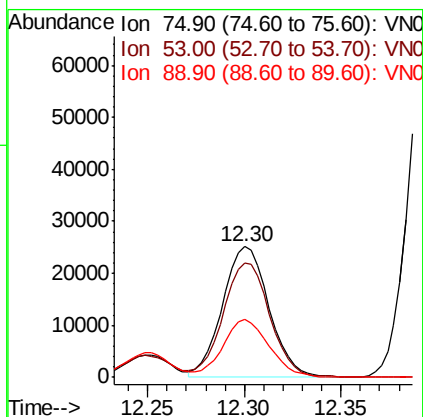
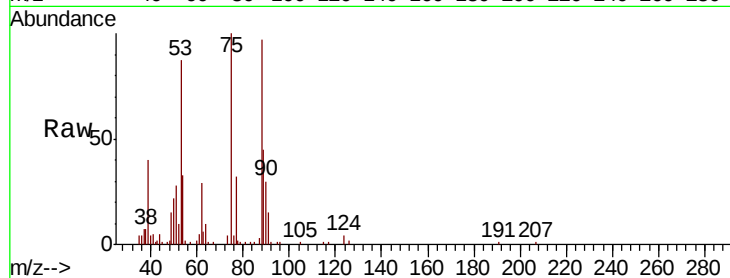
53 88.3 68.9 103.3

89 44.0 36.1 54.1

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#82

4-Chlorotoluene

Concen: 19.86 ug/l

RT: 12.77 min Scan# 3478

Delta R.T. -0.00 min

Lab File: VN050858.D

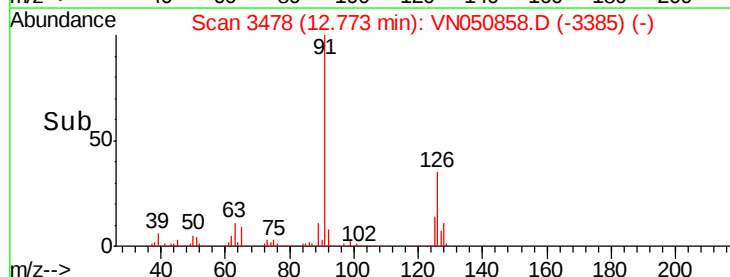
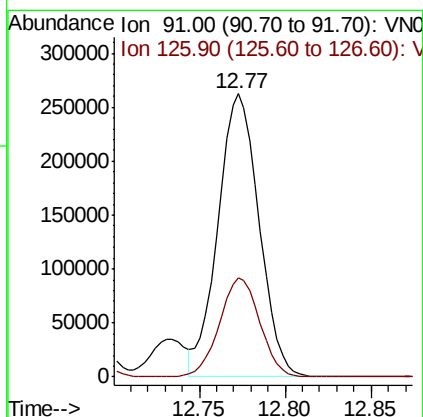
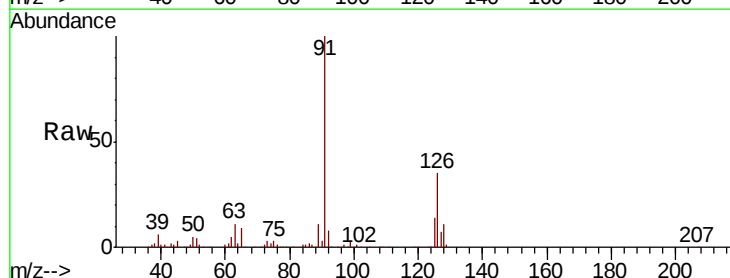
Acq: 23 Aug 2018 17:25

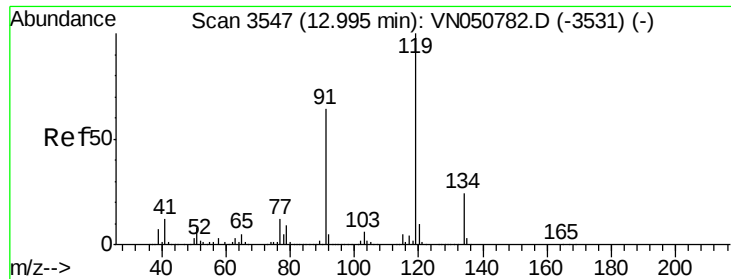
Tgt Ion: 91 Resp: 433247

Ion Ratio Lower Upper

91 100

126 34.5 17.5 52.5





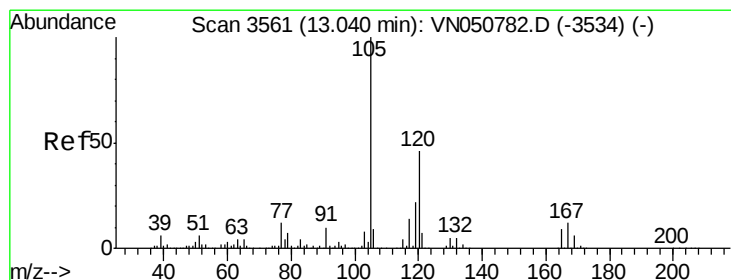
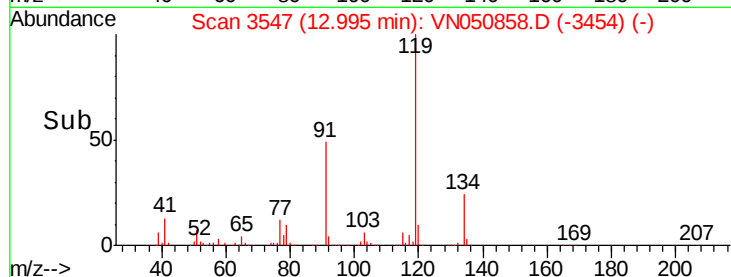
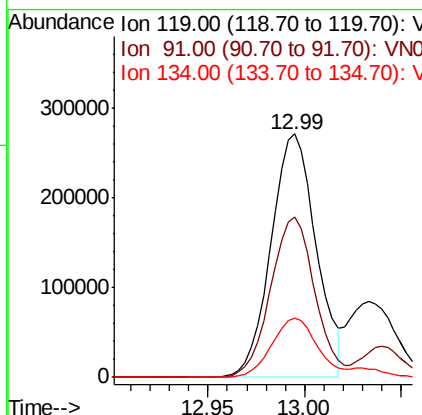
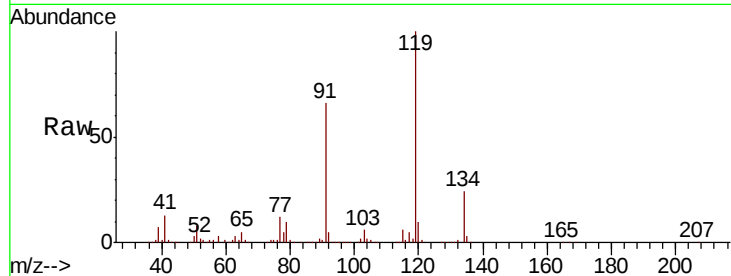
#83
 tert-Butylbenzene
 Concen: 19.77 ug/l
 RT: 12.99 min Scan# 3547
 Delta R.T. -0.00 min
 Lab File: VN050858.D
 Acq: 23 Aug 2018 17:25

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0823MBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	438723		
91	64.2	31.6	94.7	
134	24.9	13.4	40.1	

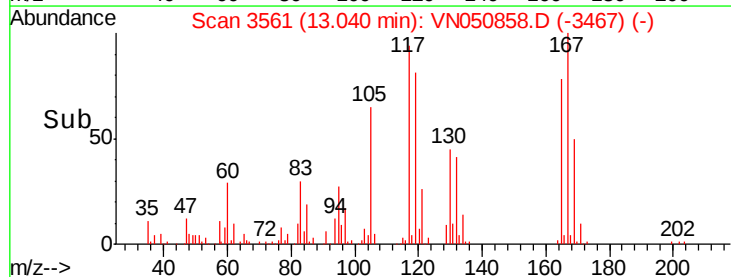
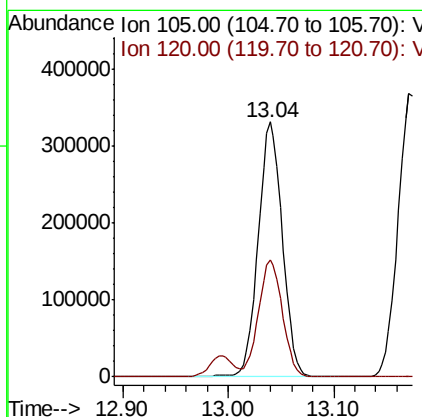
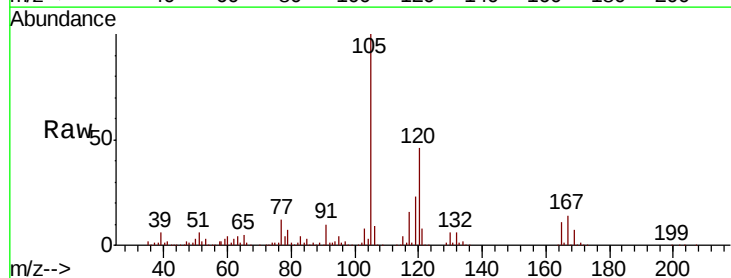
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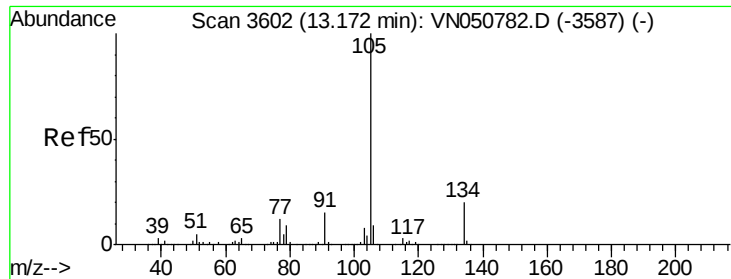
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#84
 1,2,4-Trimethylbenzene
 Concen: 20.55 ug/l
 RT: 13.04 min Scan# 3561
 Delta R.T. 0.00 min
 Lab File: VN050858.D
 Acq: 23 Aug 2018 17:25

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	529591		
120	45.8	22.9	68.8	





#85

sec-Butylbenzene

Concen: 20.19 ug/l

RT: 13.17 min Scan# 3602

Delta R.T. -0.00 min

Lab File: VN050858.D

Acq: 23 Aug 2018 17:25

Instrument :

MSVOA_N

ClientSampleId :

VN0823MBS01

Tot Ion:105 Resp: 586937

Ion Ratio Lower Upper

105 100

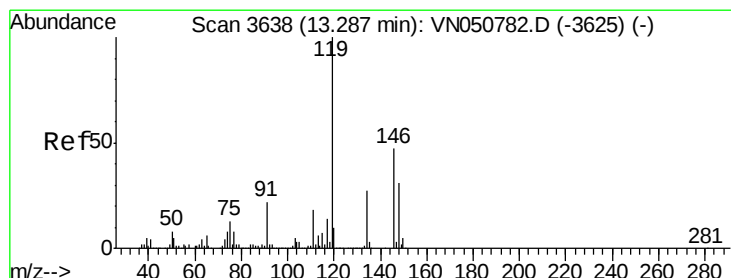
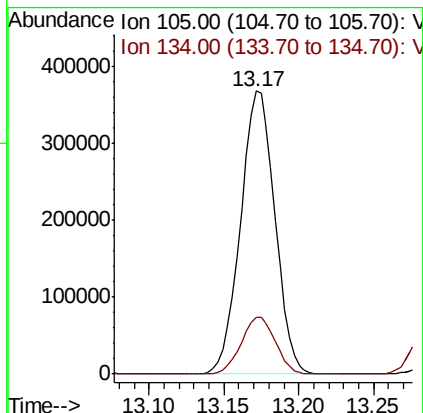
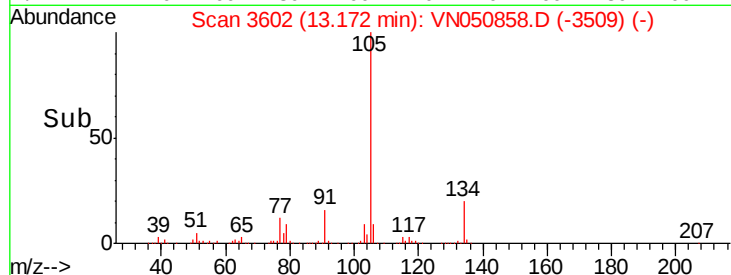
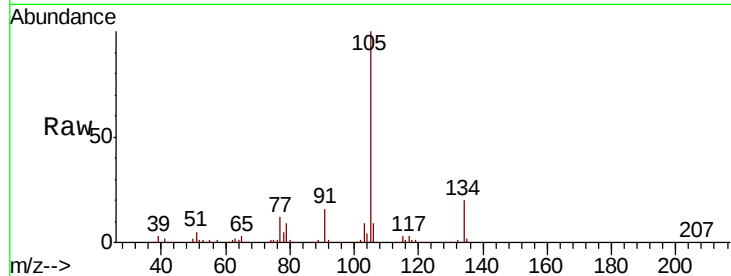
134 20.2 10.3 30.8

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#86

p-Isopropyltoluene

Concen: 20.33 ug/l

RT: 13.29 min Scan# 3639

Delta R.T. 0.00 min

Lab File: VN050858.D

Acq: 23 Aug 2018 17:25

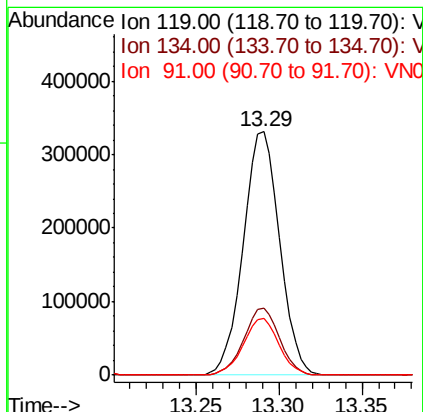
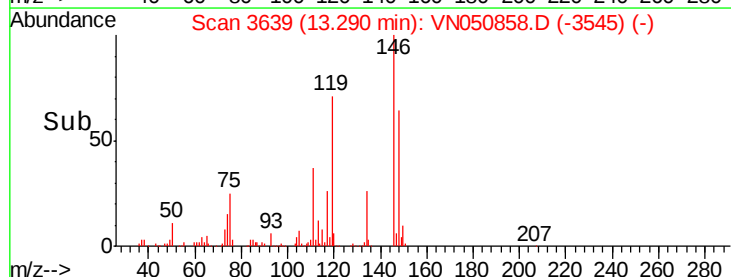
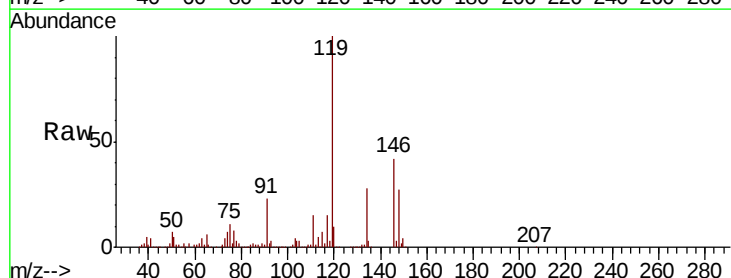
Tgt Ion:119 Resp: 503703

Ion Ratio Lower Upper

119 100

134 27.0 13.7 41.0

91 22.7 11.2 33.5





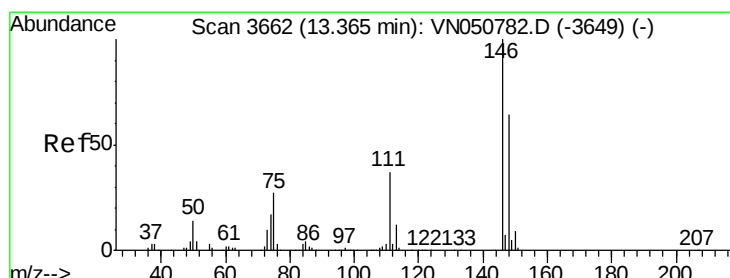
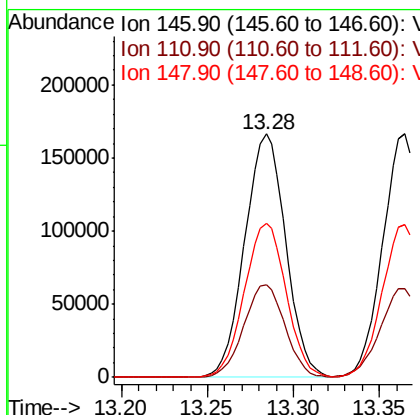
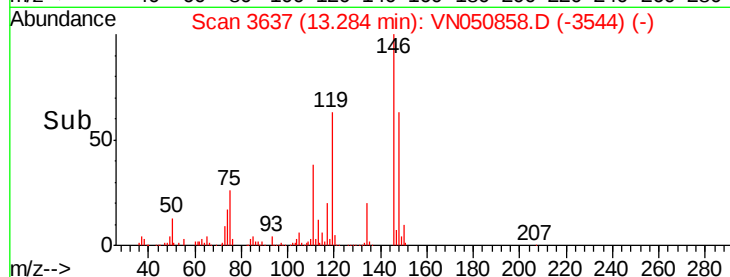
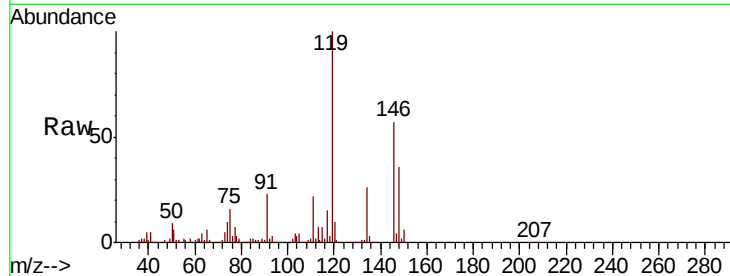
#87
 1,3-Dichlorobenzene
 Concen: 18.83 ug/l
 RT: 13.28 min Scan# 3637
 Delta R.T. -0.00 min
 Lab File: VN050858.D
 Acq: 23 Aug 2018 17:25

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0823MBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.3	19.1	57.3
148	64.4	32.2	96.6

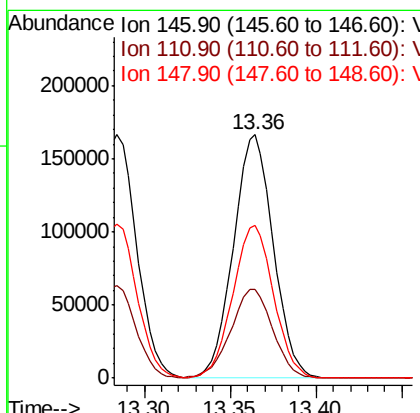
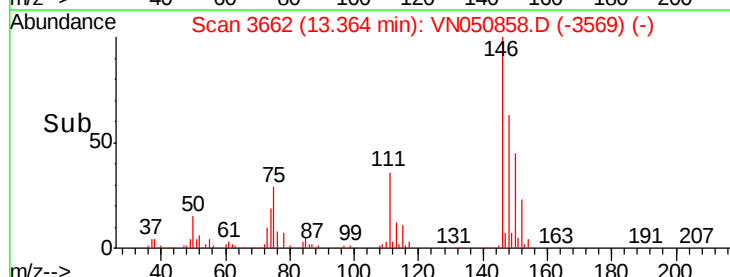
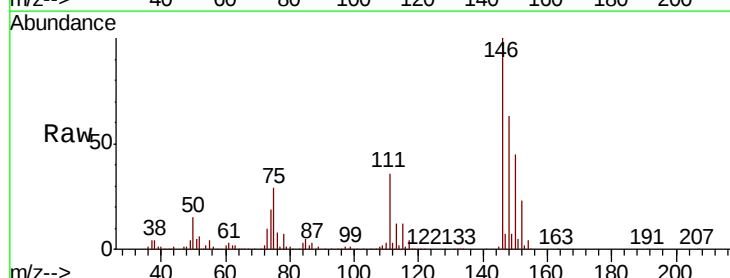
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#88
 1,4-Dichlorobenzene
 Concen: 18.55 ug/l
 RT: 13.36 min Scan# 3662
 Delta R.T. -0.00 min
 Lab File: VN050858.D
 Acq: 23 Aug 2018 17:25

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.8	18.8	56.3
148	64.4	32.2	96.6





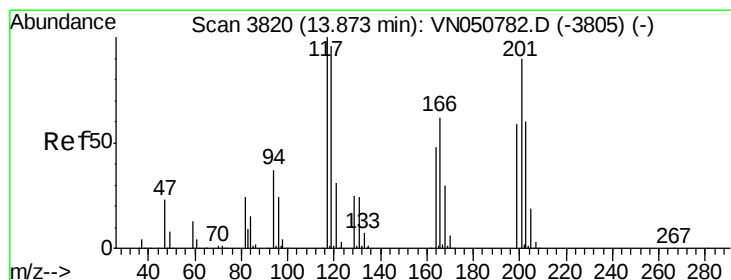
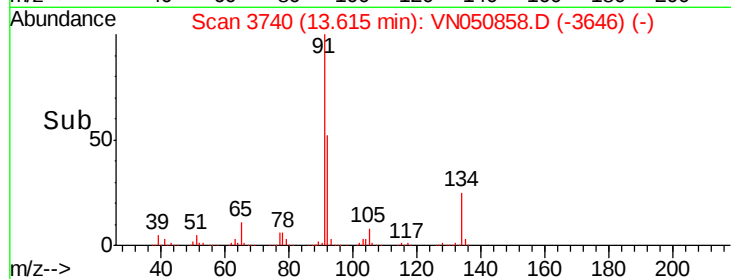
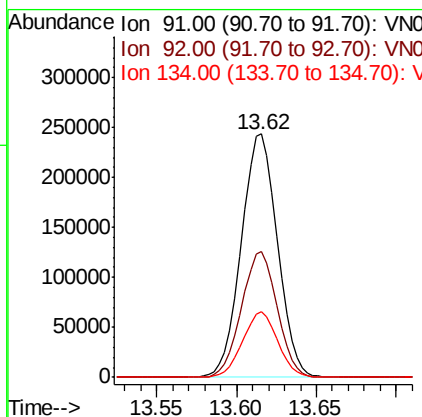
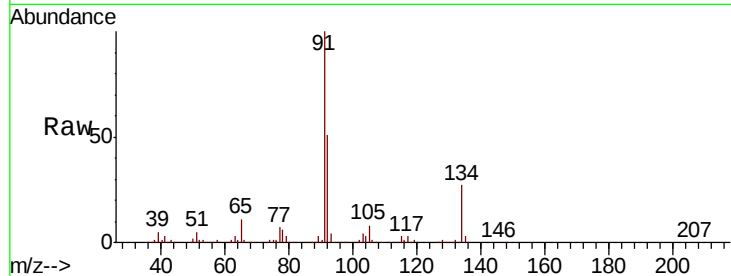
#89
n-Butylbenzene
Concen: 18.88 ug/l
RT: 13.62 min Scan# 3740
Delta R.T. 0.00 min
Lab File: VN050858.D
Acq: 23 Aug 2018 17:25

Instrument :
MSVOA_N
ClientSampleId :
VN0823MBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.2	26.1	78.2
134	26.2	13.2	39.6

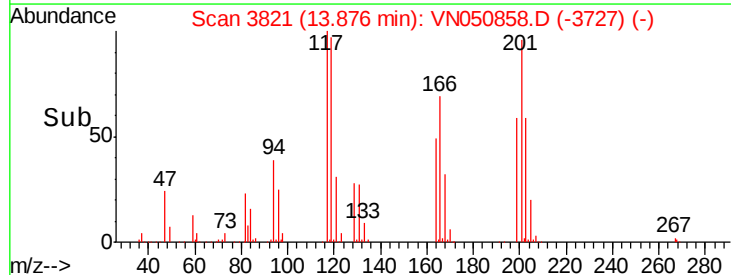
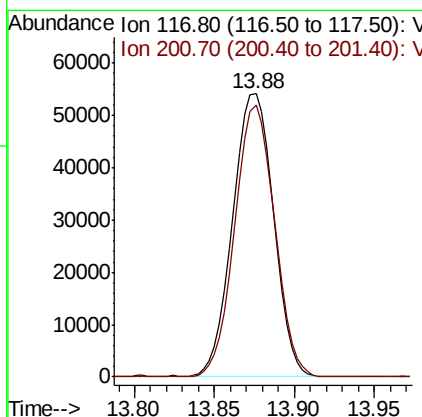
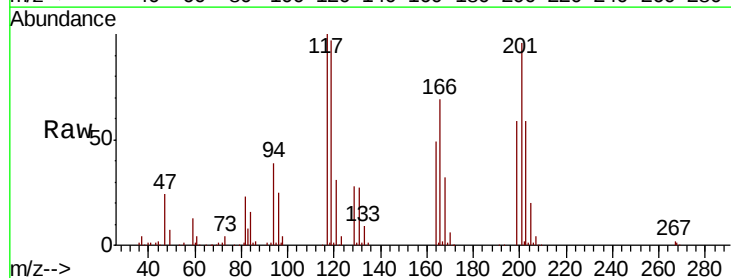
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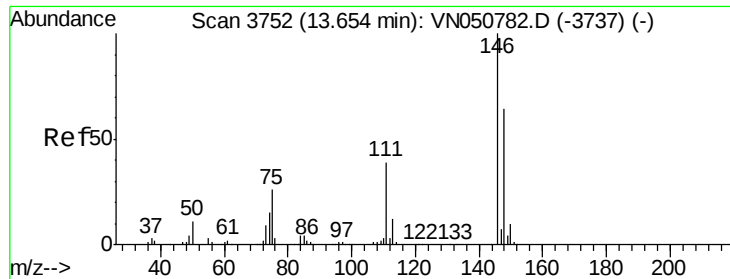
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#90
Hexachloroethane
Concen: 20.13 ug/l
RT: 13.88 min Scan# 3821
Delta R.T. 0.00 min
Lab File: VN050858.D
Acq: 23 Aug 2018 17:25

Tgt Ion	Ratio	Lower	Upper
117	100		
201	93.3	46.0	137.8





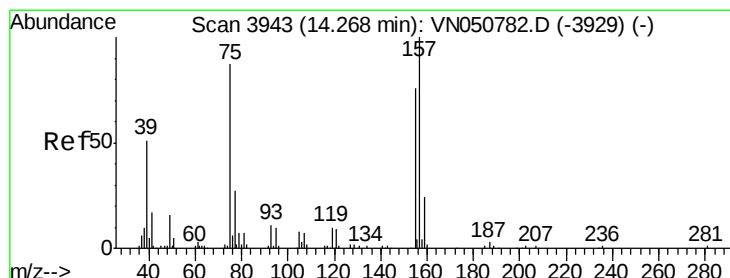
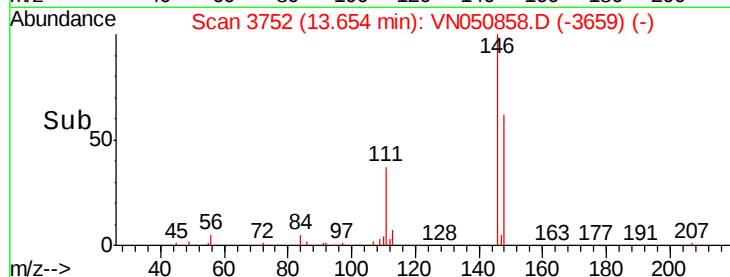
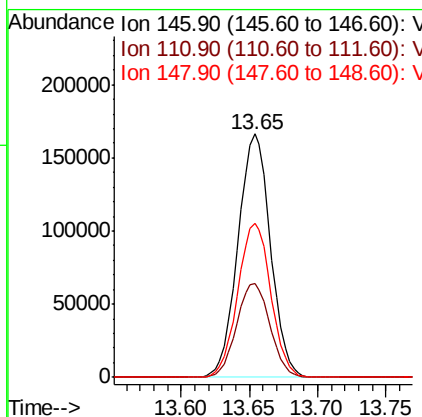
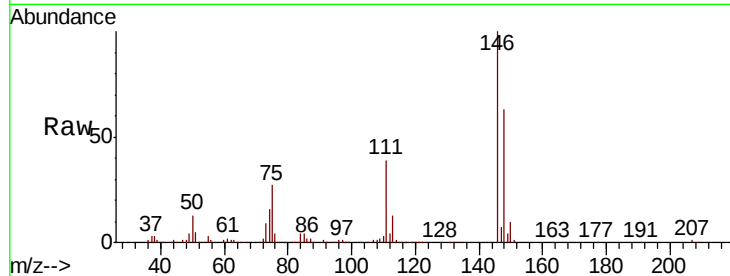
#91
 1,2-Dichlorobenzene
 Concen: 19.44 ug/l
 RT: 13.65 min Scan# 3752
 Delta R.T. -0.00 min
 Lab File: VN050858.D
 Acq: 23 Aug 2018 17:25

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0823MBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.7	19.8	59.3
148	64.4	32.3	96.8

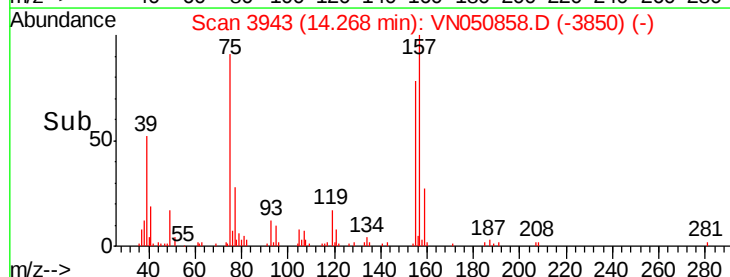
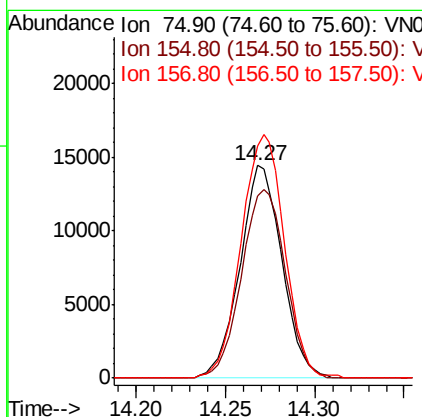
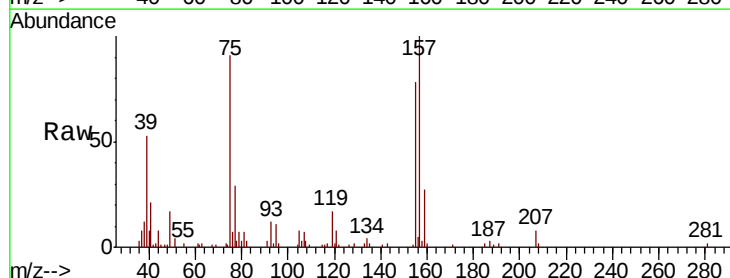
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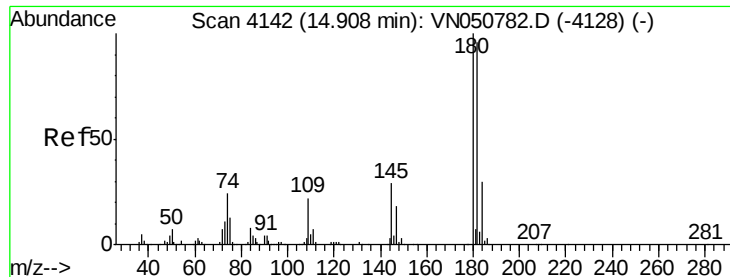
MMDadoda
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 20.84 ug/l
 RT: 14.27 min Scan# 3943
 Delta R.T. -0.00 min
 Lab File: VN050858.D
 Acq: 23 Aug 2018 17:25

Tgt Ion	Ratio	Lower	Upper
75	100		
155	92.8	46.4	139.1
157	117.8	60.7	182.0





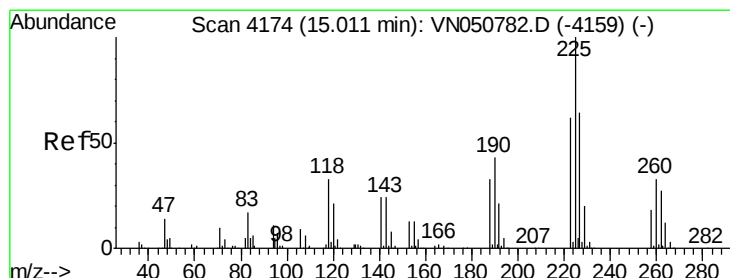
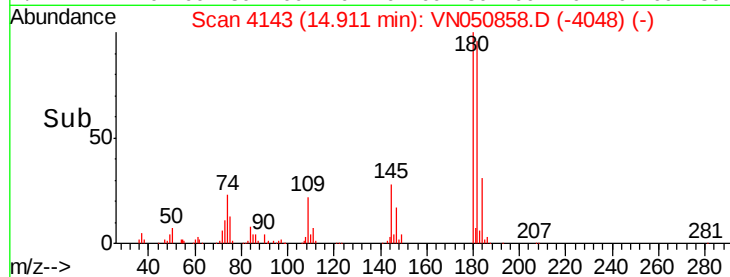
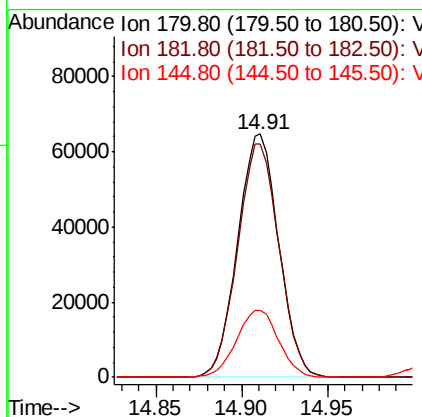
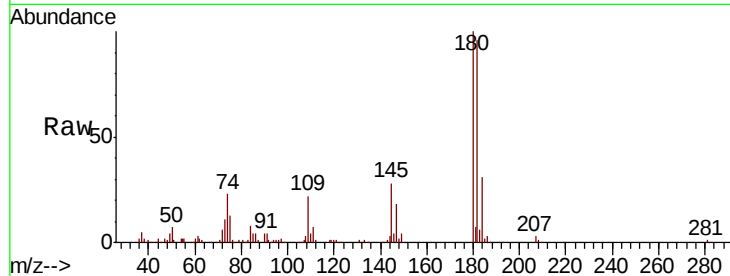
#93
 1,2,4-Trichlorobenzene
 Concen: 17.44 ug/l
 RT: 14.91 min Scan# 4143
 Delta R.T. 0.00 min
 Lab File: VN050858.D
 Acq: 23 Aug 2018 17:25

Instrument :
 MSVOA_N
 ClientSampled :
 VN0823MBS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	97.3	48.2	144.6	
145	28.7	14.1	42.2	

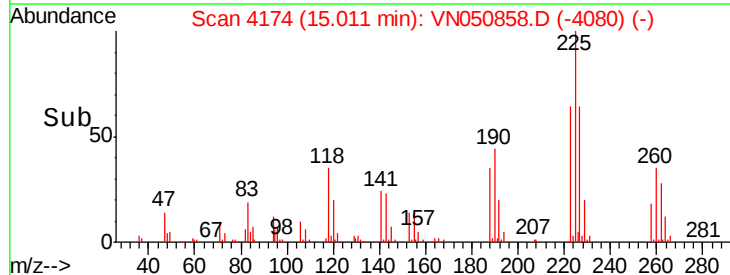
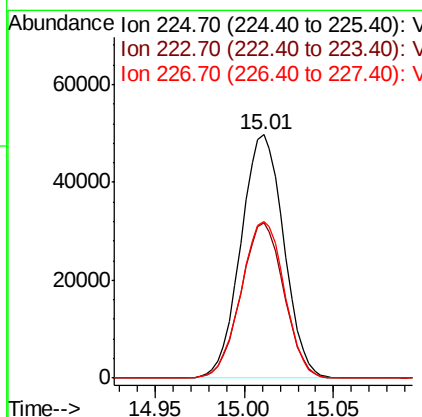
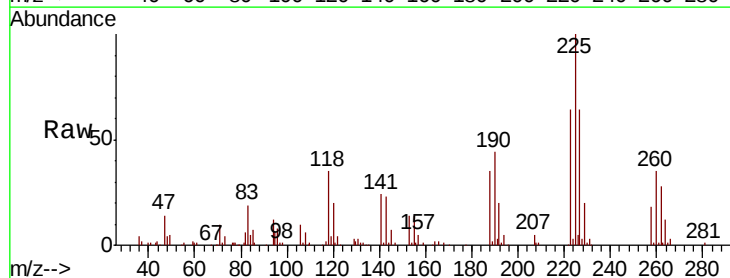
Manual Integrations
 APPROVED

MMDadoda
 8/24/2018 10:41:09 AM



#94
 Hexachlorobutadiene
 Concen: 19.23 ug/l
 RT: 15.01 min Scan# 4174
 Delta R.T. 0.00 min
 Lab File: VN050858.D
 Acq: 23 Aug 2018 17:25

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	63.7	31.3	93.8	
227	65.3	32.0	96.2	





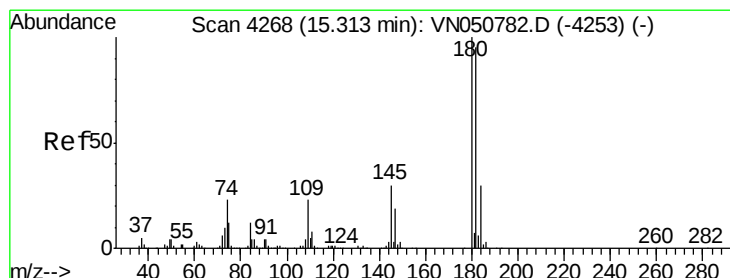
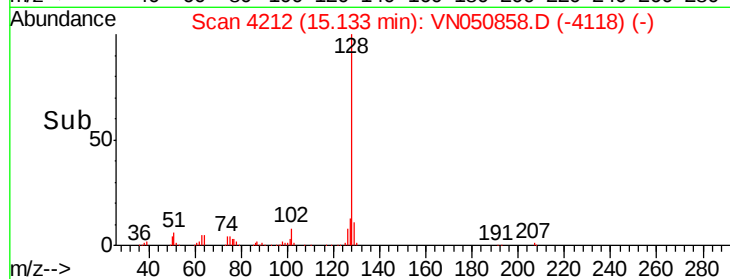
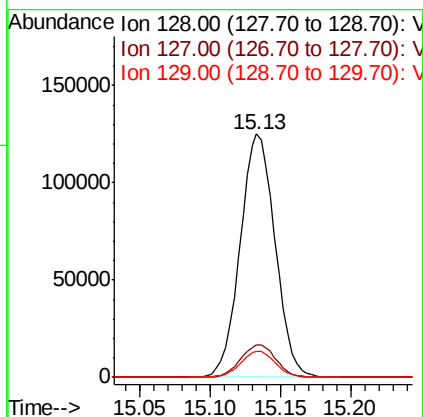
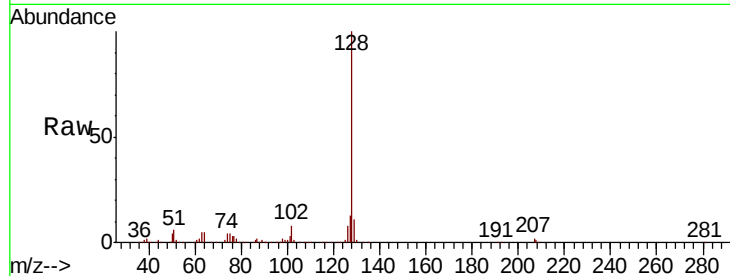
#95
Naphthalene
Concen: 18.07 ug/l
RT: 15.13 min Scan# 4212
Delta R.T. 0.00 min
Lab File: VN050858.D
Acq: 23 Aug 2018 17:25

Instrument :
MSVOA_N
ClientSampleId :
VN0823MBS01

Tot Ion:	128	Resp:	217657
Ion Ratio	Lower	Upper	
128	100		
127	13.5	10.5	15.7
129	10.8	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
8/24/2018 10:41:09 AM



#96
1,2,3-Trichlorobenzene
Concen: 18.80 ug/l
RT: 15.32 min Scan# 4269
Delta R.T. 0.00 min
Lab File: VN050858.D
Acq: 23 Aug 2018 17:25

Tgt Ion:	180	Resp:	114345
Ion Ratio	Lower	Upper	
180	100		
182	94.9	48.0	144.2
145	30.3	15.2	45.6

