

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN083118\
 Data File : VN050977.D
 Acq On : 31 Aug 2018 10:20
 Operator : MD\SY
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 9/4/2018 12:27:44 PM

Quant Time: Aug 31 14:20:14 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	605464	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	825115	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	758549	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	394176	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	341815	46.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.78%	
35) Dibromofluoromethane	7.59	113	335266	51.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.14%	
50) Toluene-d8	10.09	98	1268018	51.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.34%	
62) 4-Bromofluorobenzene	12.40	95	423148	51.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.78%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	382688	47.23	ug/l	100
3) Chloromethane	2.06	50	421270	42.15	ug/l	99
4) Vinyl Chloride	2.18	62	422604	44.64	ug/l	99
5) Bromomethane	2.56	94	253021	46.96	ug/l	98
6) Chloroethane	2.70	64	248973	45.52	ug/l	98
7) Trichlorofluoromethane	3.01	101	569295	46.96	ug/l	98
8) Diethyl Ether	3.41	74	188449	45.72	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.76	101	363204	47.96	ug/l	99
10) Methyl Iodide	3.95	142	296654	45.31	ug/l	99
11) Tert butyl alcohol	4.78	59	96473	207.85	ug/l	100
12) 1,1-Dichloroethene	3.74	96	311730	45.84	ug/l	98
13) Acrolein	3.61	56	39927	154.67	ug/l	100
14) Allyl chloride	4.32	41	489437	46.19	ug/l	99
15) Acrylonitrile	4.99	53	536649	227.51	ug/l	100
16) Acetone	3.81	43	481379	279.73	ug/l	98
17) Carbon Disulfide	4.05	76	911944	40.00	ug/l	100
18) Methyl Acetate	4.33	43	341898	49.67	ug/l	99
19) Methyl tert-butyl Ether	5.05	73	824125	48.18	ug/l	99
20) Methylene Chloride	4.55	84	364956	44.43	ug/l	99
21) trans-1,2-Dichloroethene	5.04	96	337626	45.90	ug/l	99
22) Diisopropyl ether	5.95	45	1044033	49.44	ug/l	98
23) Vinyl Acetate	5.90	43	3100744	228.00	ug/l	99
24) 1,1-Dichloroethane	5.85	63	626914	46.24	ug/l	100
25) 2-Butanone	6.84	43	631518	214.99	ug/l	99
26) 2,2-Dichloropropane	6.82	77	510494	46.86	ug/l	100
27) cis-1,2-Dichloroethene	6.83	96	378913	47.79	ug/l	99
28) Bromochloromethane	7.19	49	286030	49.65	ug/l	98
29) Tetrahydrofuran	7.21	42	383463	227.69	ug/l	99
30) Chloroform	7.37	83	634244	47.24	ug/l	99
31) Cyclohexane	7.65	56	554554	45.05	ug/l	99
32) 1,1,1-Trichloroethane	7.57	97	540564	46.88	ug/l	99
36) 1,1-Dichloropropene	7.79	75	489293	50.25	ug/l	100
37) Ethyl Acetate	6.93	43	250632	44.81	ug/l	100
38) Carbon Tetrachloride	7.77	117	484100	49.19	ug/l	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	541392	51.40	ug/l	99
40) Benzene	8.04	78	1468537	50.02	ug/l	100
41) Methacrylonitrile	7.17	41	145671	48.13	ug/l	98
42) 1,2-Dichloroethane	8.12	62	425874	48.51	ug/l	99
43) Isopropyl Acetate	8.17	43	463806	48.23	ug/l #	88
44) Trichloroethene	8.83	130	383896	49.58	ug/l	98
45) 1,2-Dichloropropane	9.12	63	384628	49.84	ug/l	98
46) Dibromomethane	9.21	93	222331	49.04	ug/l	99
47) Bromodichloromethane	9.40	83	482233	50.78	ug/l	99
48) Methyl methacrylate	9.20	41	233418	47.63	ug/l	98
49) 1,4-Dioxane	9.20	88	63587	951.73	ug/l	99
51) 4-Methyl-2-Pentanone	9.98	43	1308489	228.01	ug/l	100
52) Toluene	10.16	92	908791	52.25	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	471468	49.88	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	558469	51.59	ug/l	100
55) 1,1,2-Trichloroethane	10.56	97	322162	49.90	ug/l	98
56) Ethyl methacrylate	10.43	69	373359	44.72	ug/l	99
57) 1,3-Dichloropropane	10.71	76	534863	50.20	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.69	63	780696	214.85	ug/l	100
59) 2-Hexanone	10.75	43	898742	235.25	ug/l	99
60) Dibromochloromethane	10.90	129	369789	51.16	ug/l	99
61) 1,2-Dibromoethane	11.00	107	310384	49.72	ug/l	100
64) Tetrachloroethene	10.63	164	352341	48.90	ug/l	99
65) Chlorobenzene	11.43	112	995354	50.20	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	373840	51.53	ug/l	100
67) Ethyl Benzene	11.51	91	1687806	52.36	ug/l	100
68) m/p-Xylenes	11.62	106	1330337	108.73	ug/l	100
69) o-Xylene	11.95	106	631242	53.67	ug/l	100
70) Styrene	11.96	104	1018963	49.18	ug/l	100
71) Bromoform	12.13	173	256585	51.43	ug/l #	100
73) Isopropylbenzene	12.25	105	1686716	51.68	ug/l	99
74) N-amyl acetate	12.07	43	372753	45.45	ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.50	83	387442	49.78	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	333546m	48.31	ug/l	
77) Bromobenzene	12.53	156	429961	48.47	ug/l	97
78) n-propylbenzene	12.59	91	1941692	53.25	ug/l	99
79) 2-Chlorotoluene	12.67	91	1137044	50.07	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	1403914	53.31	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	96483	47.24	ug/l	99
82) 4-Chlorotoluene	12.77	91	1151753	51.37	ug/l	100
83) tert-Butylbenzene	12.99	119	1202418	52.72	ug/l	98
84) 1,2,4-Trimethylbenzene	13.04	105	1421313	53.65	ug/l	99
85) sec-Butylbenzene	13.17	105	1608559	53.82	ug/l	100
86) p-Isopropyltoluene	13.29	119	1413957	55.52	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	756801	50.28	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	724243	48.89	ug/l	100
89) n-Butylbenzene	13.62	91	1122272	55.10	ug/l	99
90) Hexachloroethane	13.87	117	253803	52.28	ug/l	96
91) 1,2-Dichlorobenzene	13.65	146	721164	49.66	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	50679	43.23	ug/l	98

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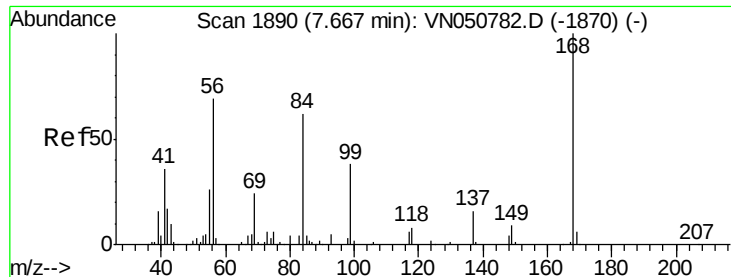
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	322118	43.24	ug/l	100
94) Hexachlorobutadiene	15.01	225	240135	55.91	ug/l	100
95) Naphthalene	15.13	128	578976	38.19	ug/l	100
96) 1,2,3-Trichlorobenzene	15.31	180	311450	44.37	ug/l	100

(#) = 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: VN050977.D

Acq: 31 Aug 2018 10:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 605464

Ion Ratio Lower Upper

168 100

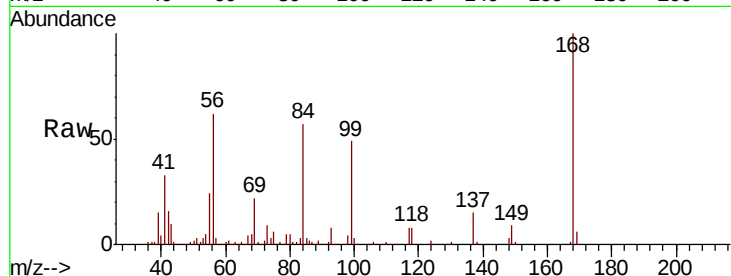
99 48.5 39.6 59.4

Manual Integrations

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9/4/2018 12:27:44 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

300000

250000

200000

150000

100000

50000

0

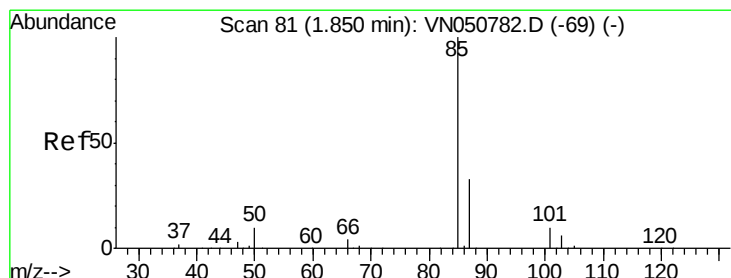
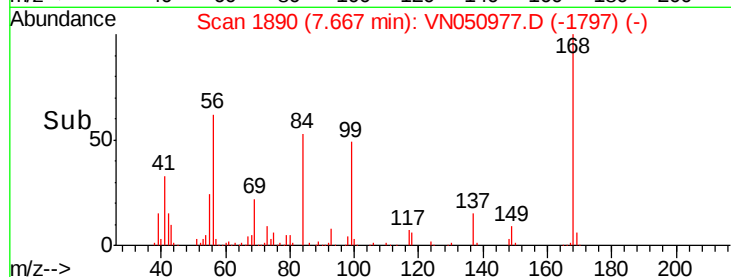
7.67

7.60

7.70

7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 47.23 ug/l

RT: 1.85 min Scan# 81

Delta R.T. 0.00 min

Lab File: VN050977.D

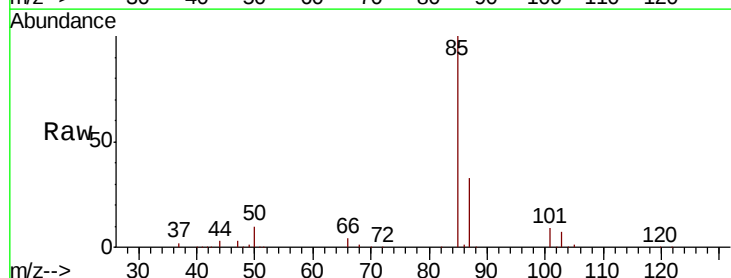
Acq: 31 Aug 2018 10:20

Tgt Ion: 85 Resp: 382688

Ion Ratio Lower Upper

85 100

87 32.6 16.4 49.1



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

300000

250000

200000

150000

100000

50000

0

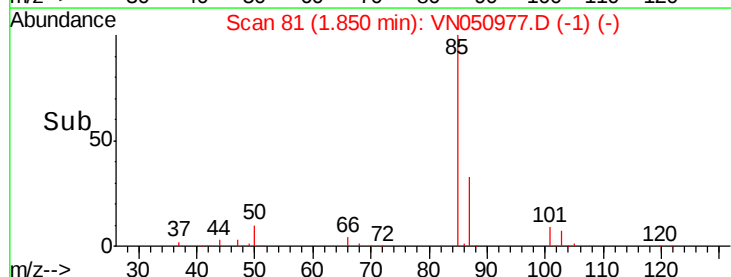
1.85

1.80

1.90

1.95

Time-->





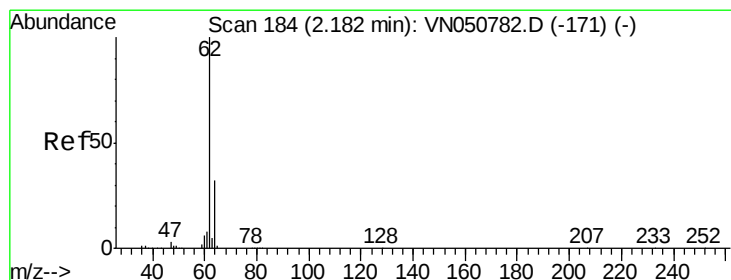
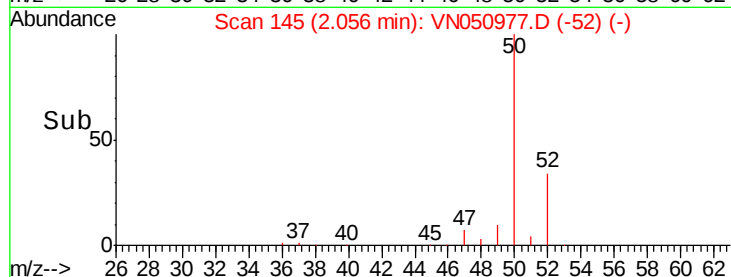
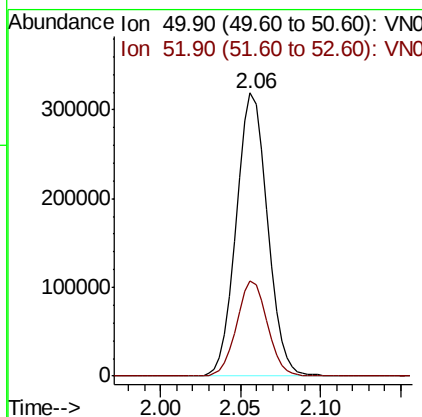
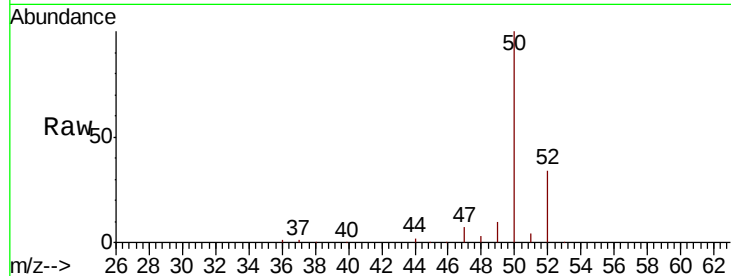
#3
Chloromethane
Concen: 42.15 ug/l
RT: 2.06 min Scan# 145
Delta R.T. -0.00 min
Lab File: VN050977.D
Acq: 31 Aug 2018 10:20

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 50 Resp: 421270
Ion Ratio Lower Upper
50 100
52 33.5 26.3 39.5

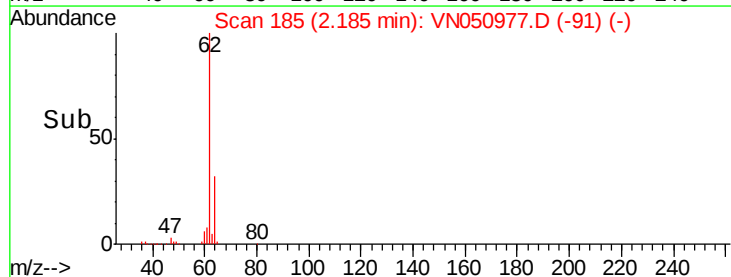
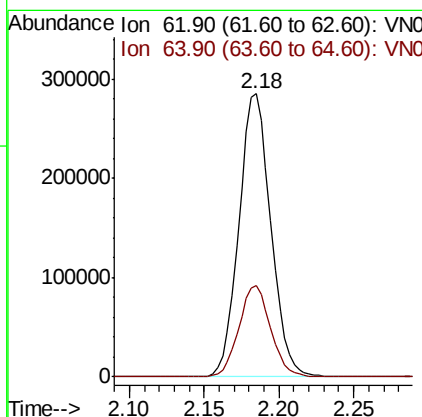
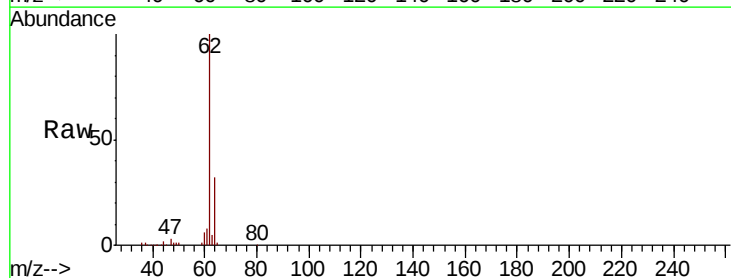
Manual Integrations
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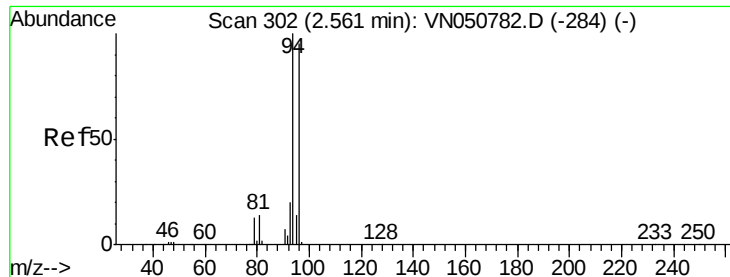
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#4
Vinyl Chloride
Concen: 44.64 ug/l
RT: 2.18 min Scan# 185
Delta R.T. 0.00 min
Lab File: VN050977.D
Acq: 31 Aug 2018 10:20

Tgt Ion: 62 Resp: 422604
Ion Ratio Lower Upper
62 100
64 32.1 25.4 38.2





#5

Bromomethane

Concen: 46.96 ug/l

RT: 2.56 min Scan# 302

Delta R.T. -0.00 min

Lab File: VN050977.D

Acq: 31 Aug 2018 10:20

Instrument :

MSVOA_N

ClientSampled :

VSTDCCC050

Tot Ion: 94 Resp: 253021

Ion Ratio Lower Upper

94 100

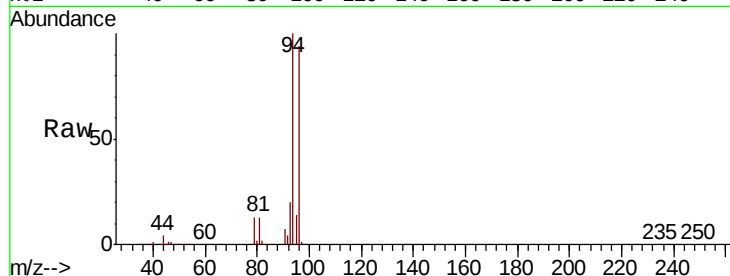
96 93.5 76.2 114.2

Manual Integrations

APPROVED

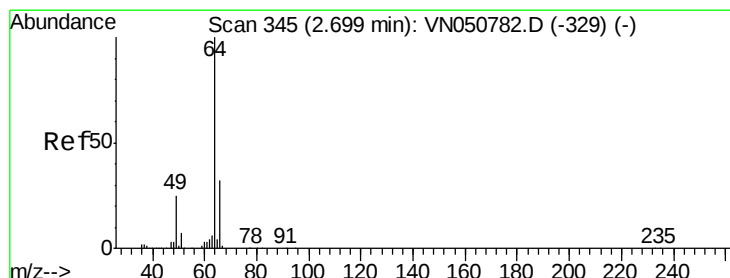
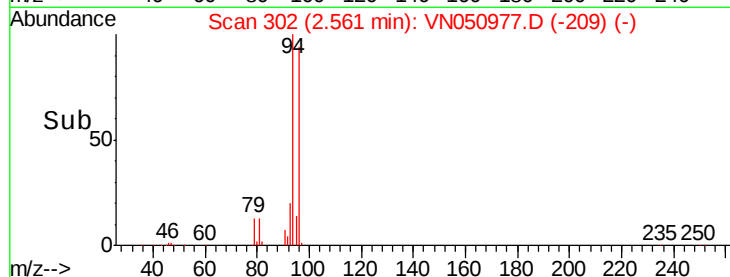
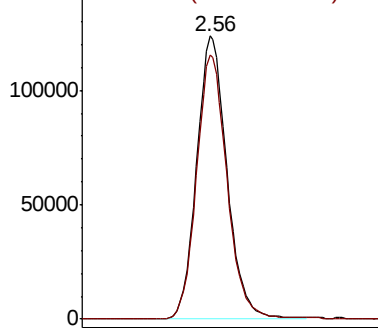
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Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 45.52 ug/l

RT: 2.70 min Scan# 346

Delta R.T. 0.00 min

Lab File: VN050977.D

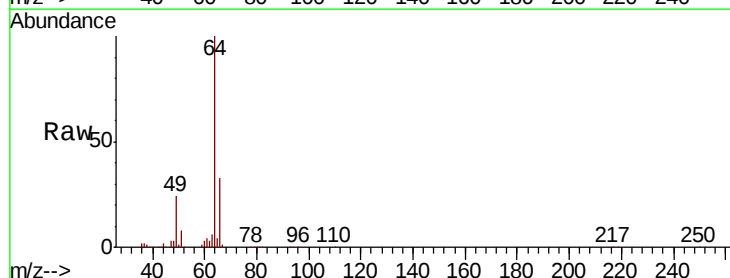
Acq: 31 Aug 2018 10:20

Tgt Ion: 64 Resp: 248973

Ion Ratio Lower Upper

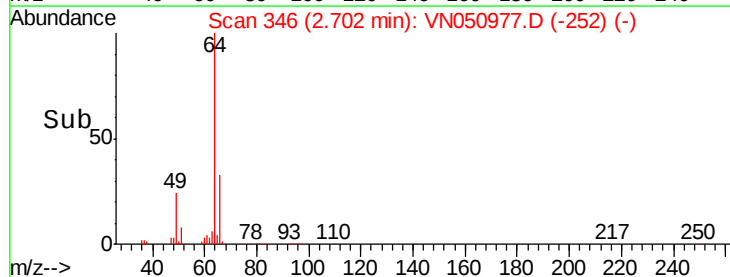
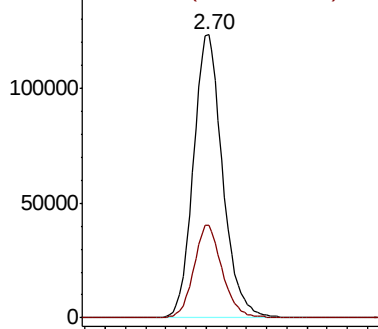
64 100

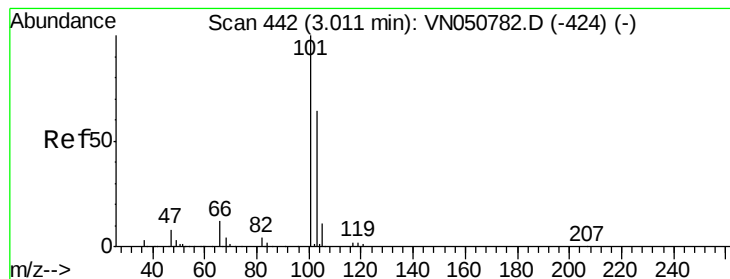
66 32.7 25.3 37.9



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#7

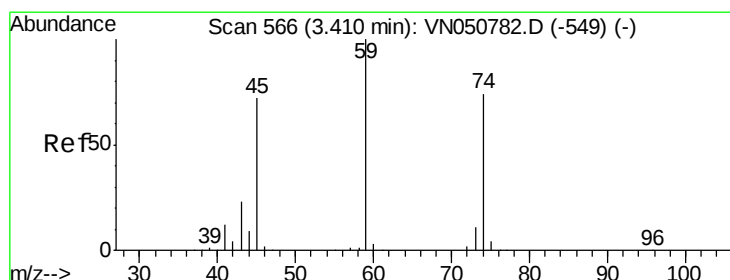
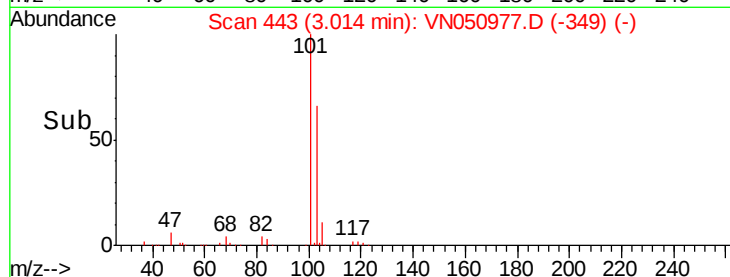
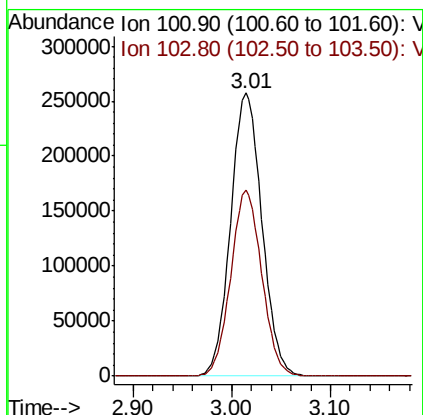
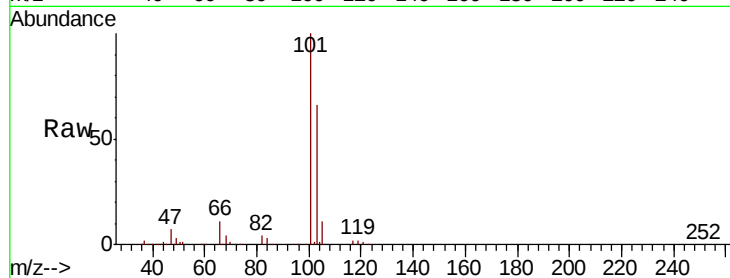
Trichlorofluoromethane
 Concen: 46.96 ug/l
 RT: 3.01 min Scan# 443
 Delta R.T. 0.00 min
 Lab File: VN050977.D
 Acq: 31 Aug 2018 10:20

Instrument :
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 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
101	100		
103	65.8	51.6	77.4

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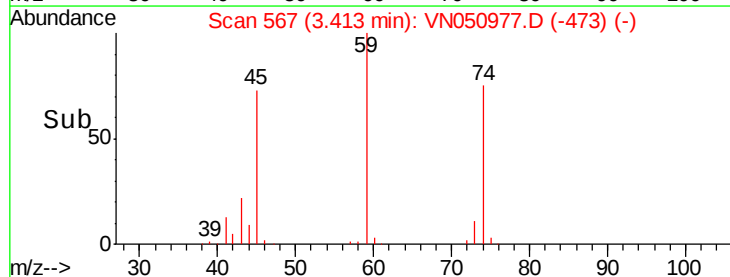
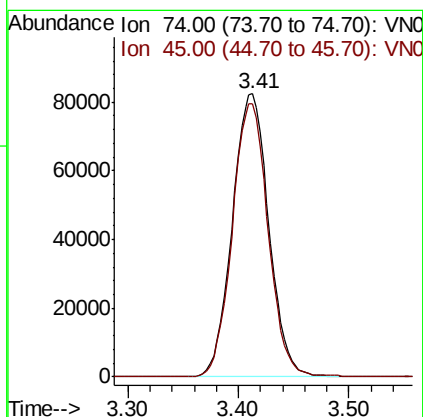
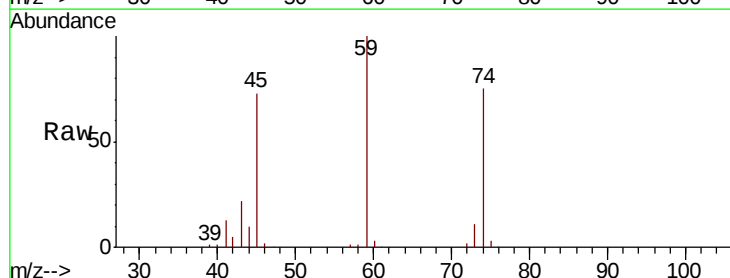
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 9/4/2018 12:27:44 PM

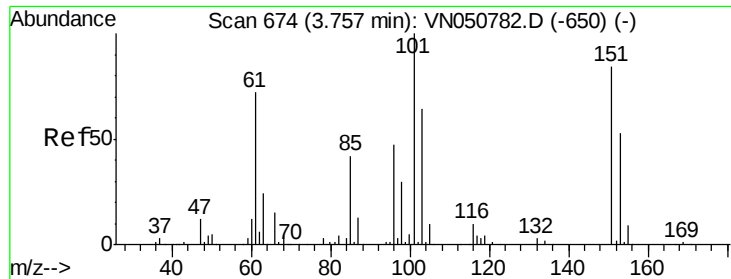


#8

Diethyl Ether
 Concen: 45.72 ug/l
 RT: 3.41 min Scan# 567
 Delta R.T. 0.00 min
 Lab File: VN050977.D
 Acq: 31 Aug 2018 10:20

Tgt Ion	Ratio	Lower	Upper
74	100		
45	95.3	48.2	144.6





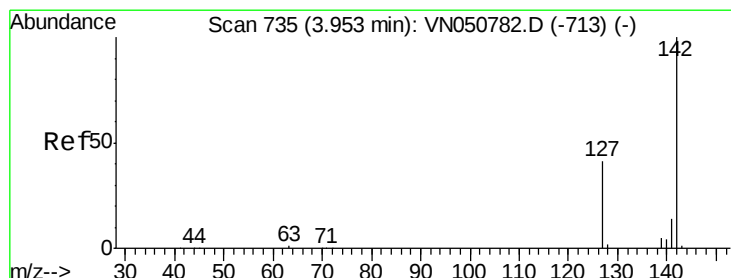
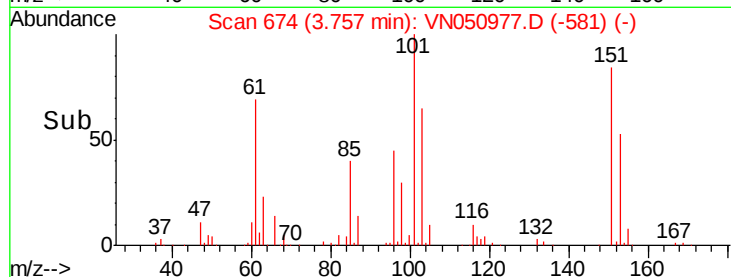
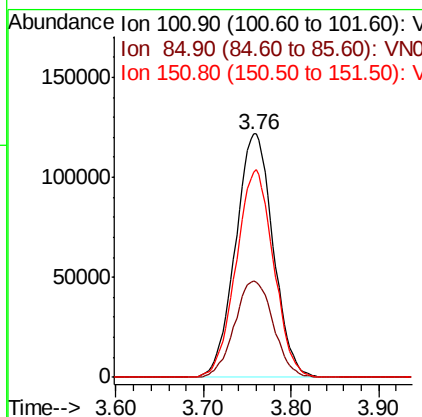
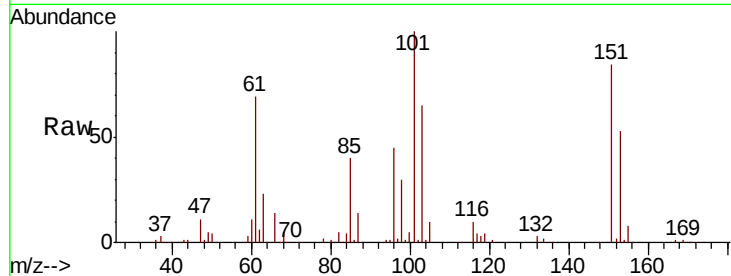
#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 47.96 ug/l
 RT: 3.76 min Scan# 674
 Delta R.T. -0.00 min
 Lab File: VN050977.D
 Acq: 31 Aug 2018 10:20

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 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
101	100	363204		
85	40.7	33.7	50.5	
151	84.9	67.4	101.2	

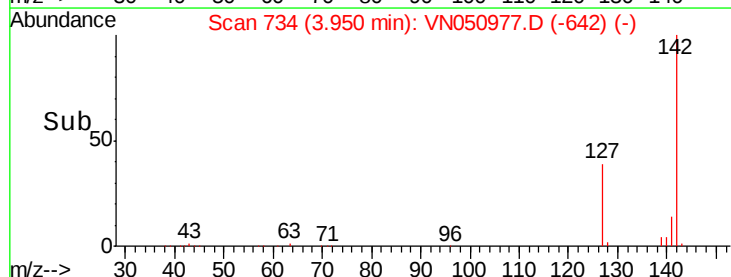
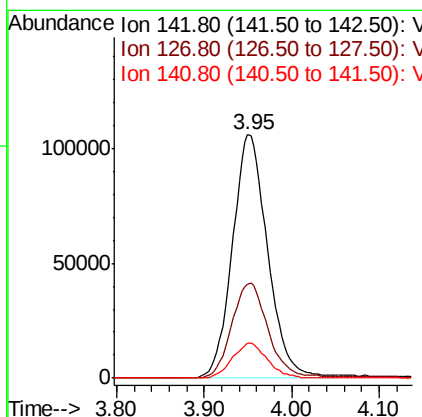
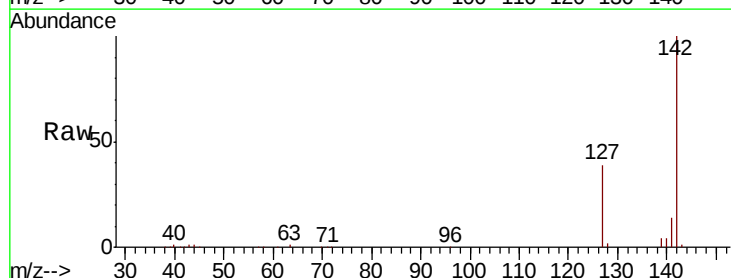
Manual Integrations
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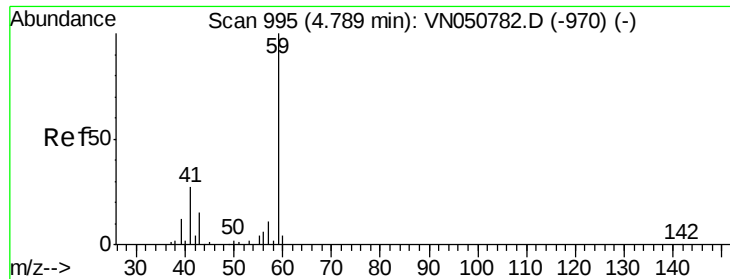
MMDadoda
 9/4/2018 12:27:44 PM



#10
 Methyl Iodide
 Concen: 45.31 ug/l
 RT: 3.95 min Scan# 734
 Delta R.T. -0.00 min
 Lab File: VN050977.D
 Acq: 31 Aug 2018 10:20

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	296654		
127	40.7	31.7	47.5	
141	14.3	11.4	17.0	





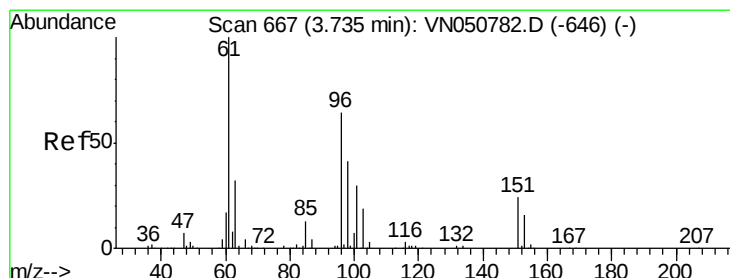
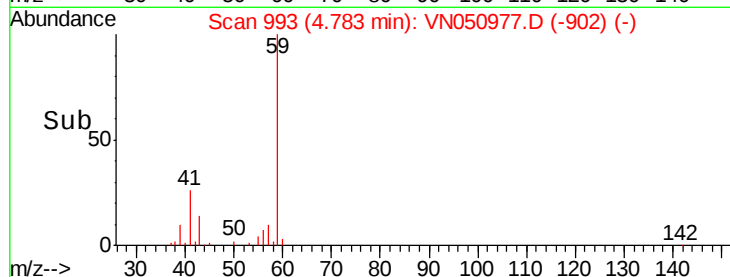
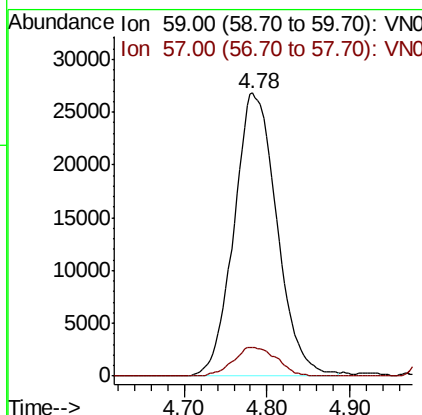
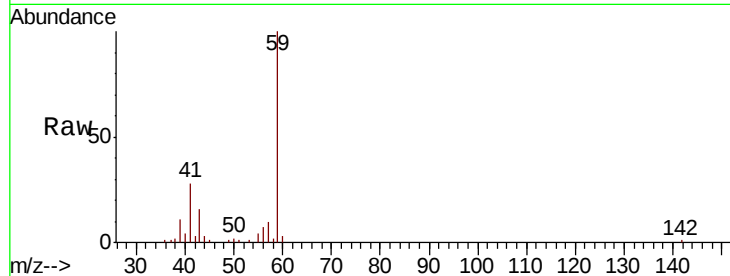
#11
Tert butyl alcohol
Concen: 207.85 ug/l
RT: 4.78 min Scan# 993
Delta R.T. -0.01 min
Lab File: VN050977.D
Acq: 31 Aug 2018 10:20

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	59	Resp	96473
Ion Ratio	100	Lower	Upper
57	10.4	8.3	12.5

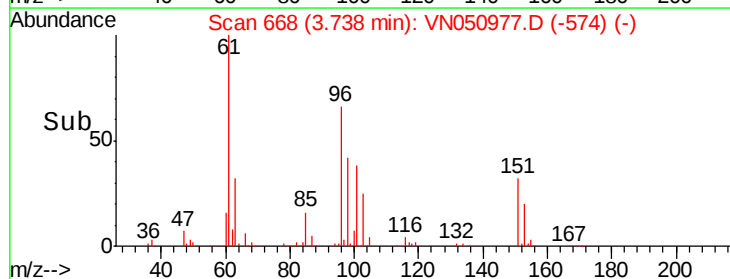
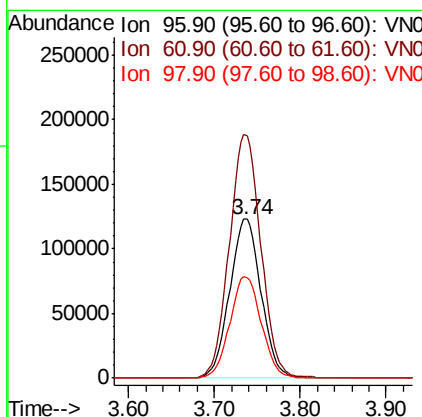
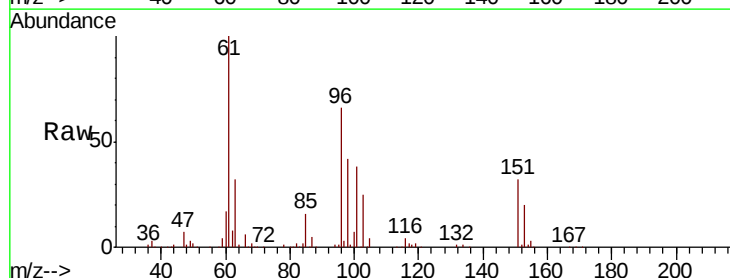
Manual Integrations
APPROVED

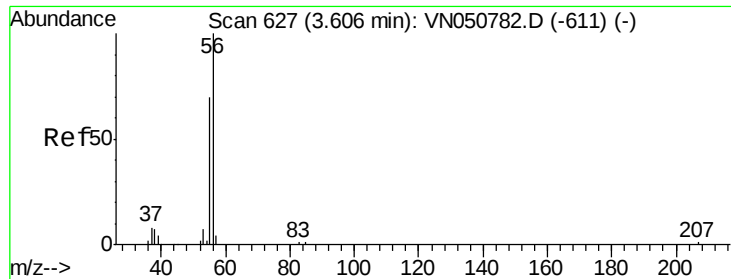
MMDadoda
9/4/2018 12:27:44 PM



#12
1,1-Dichloroethene
Concen: 45.84 ug/l
RT: 3.74 min Scan# 668
Delta R.T. 0.00 min
Lab File: VN050977.D
Acq: 31 Aug 2018 10:20

Tgt Ion	96	Resp	311730
Ion Ratio	100	Lower	Upper
61	152.6	124.9	187.3
98	63.5	51.1	76.7





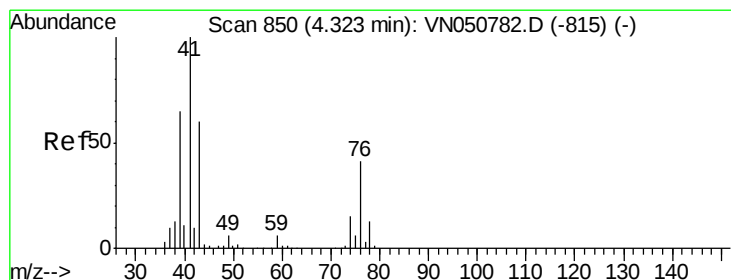
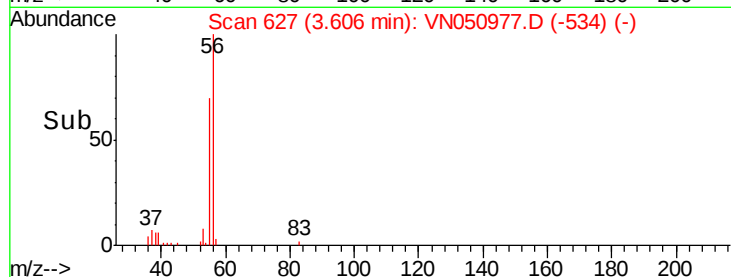
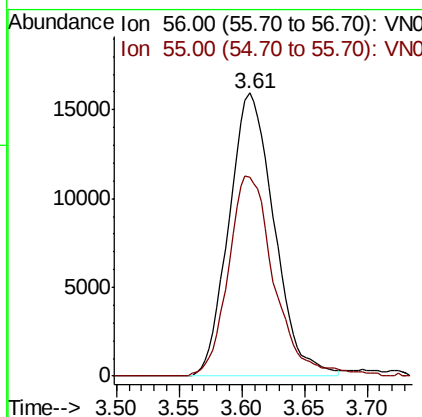
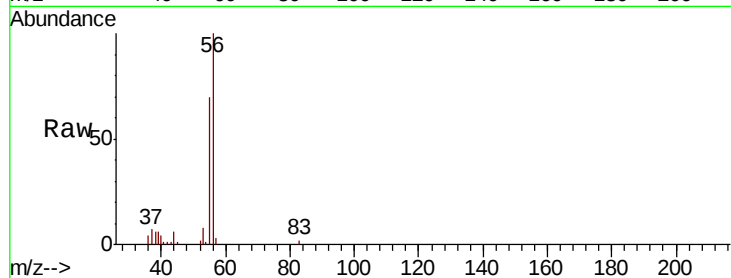
#13
Acrolein
Concen: 154.67 ug/l
RT: 3.61 min Scan# 627
Delta R.T. -0.00 min
Lab File: VN050977.D
Acq: 31 Aug 2018 10:20

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	56	Resp	39927
Ion Ratio	Lower	Upper	
56	100		
55	72.0	57.7	86.5

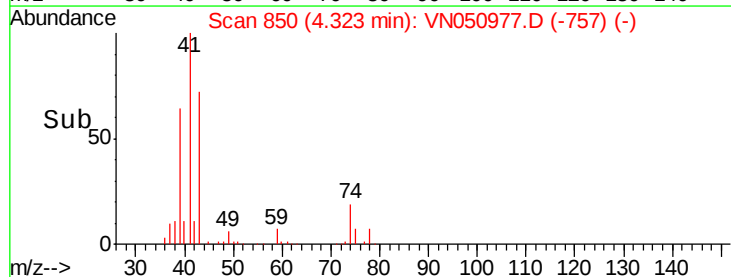
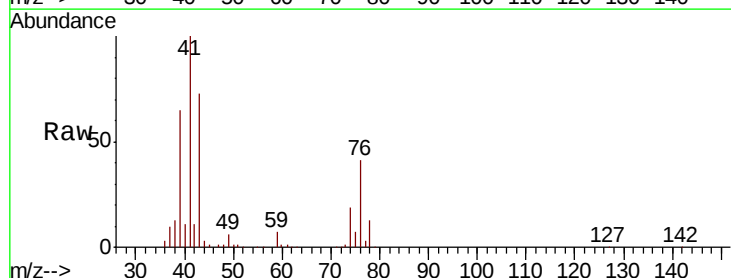
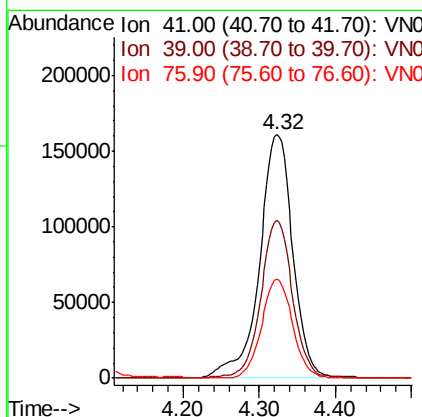
Manual Integrations
APPROVED

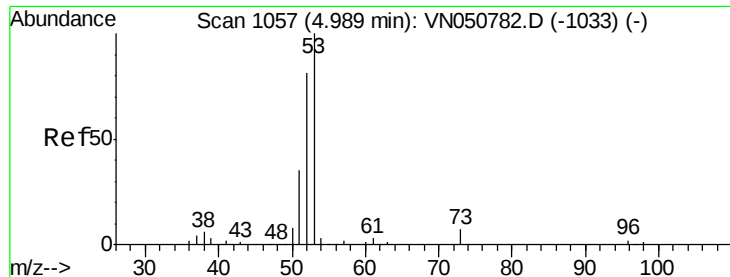
MMDadoda
9/4/2018 12:27:44 PM



#14
Allyl chloride
Concen: 46.19 ug/l
RT: 4.32 min Scan# 850
Delta R.T. -0.00 min
Lab File: VN050977.D
Acq: 31 Aug 2018 10:20

Tgt Ion	41	Resp	489437
Ion Ratio	Lower	Upper	
41	100		
39	61.7	50.2	75.2
76	37.5	29.8	44.8





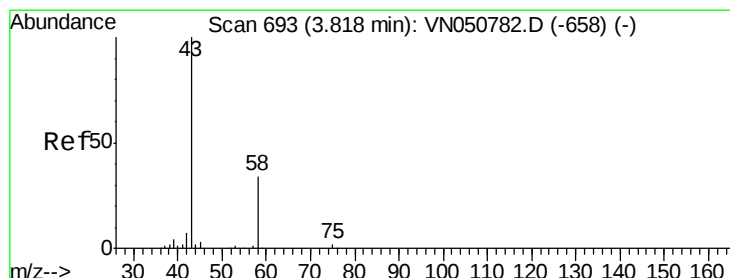
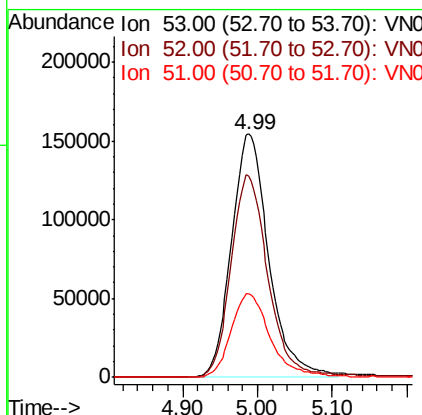
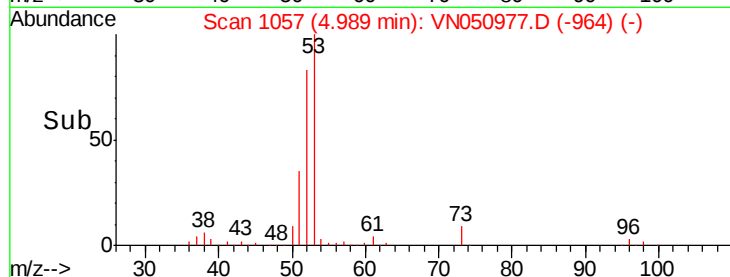
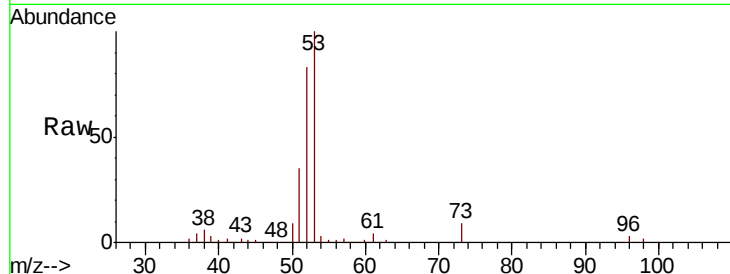
#15
 Acrylonitrile
 Concen: 227.51 ug/l
 RT: 4.99 min Scan# 1057
 Delta R.T. -0.00 min
 Lab File: VN050977.D
 Acq: 31 Aug 2018 10:20

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion:	53	Resp:	536649
Ion	Ratio	Lower	Upper
53	100		
52	82.6	65.9	98.9
51	36.2	28.6	43.0

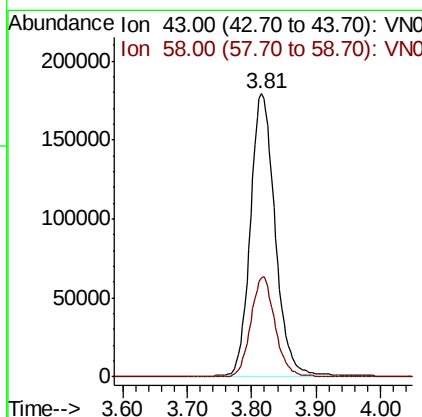
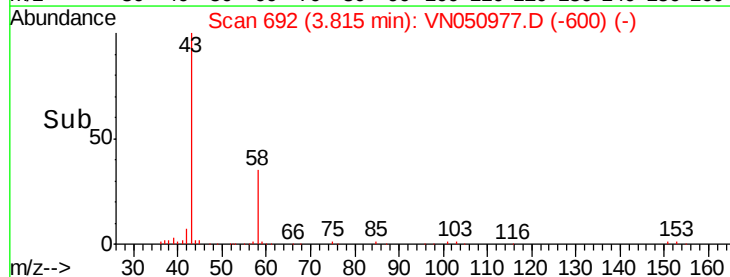
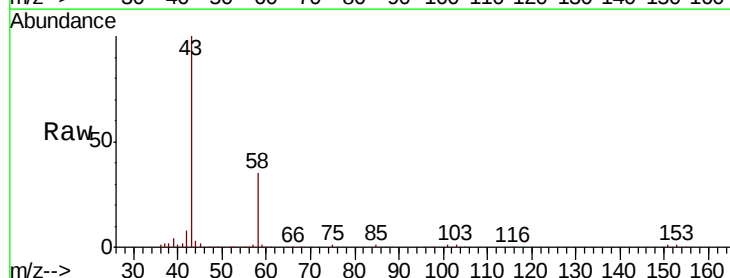
Manual Integrations
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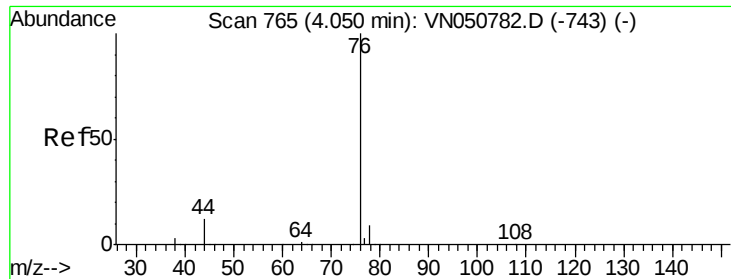
MMDadoda
 9/4/2018 12:27:44 PM



#16
 Acetone
 Concen: 279.73 ug/l
 RT: 3.81 min Scan# 692
 Delta R.T. -0.00 min
 Lab File: VN050977.D
 Acq: 31 Aug 2018 10:20

Tgt Ion:	43	Resp:	481379
Ion	Ratio	Lower	Upper
43	100		
58	35.2	27.2	40.8





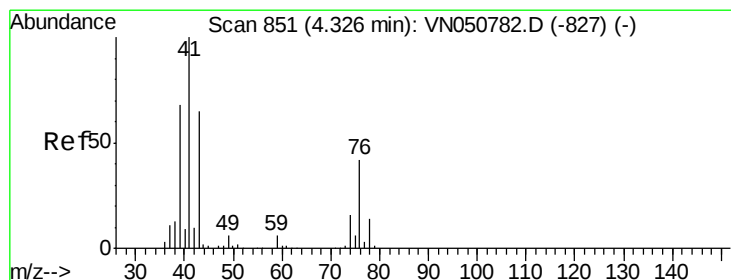
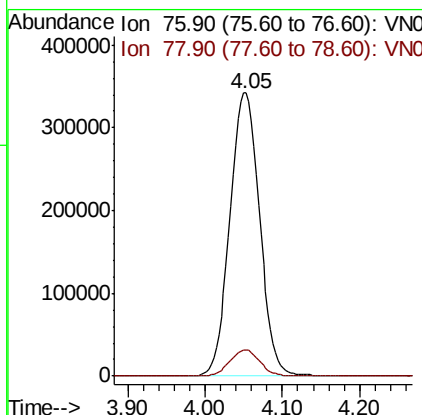
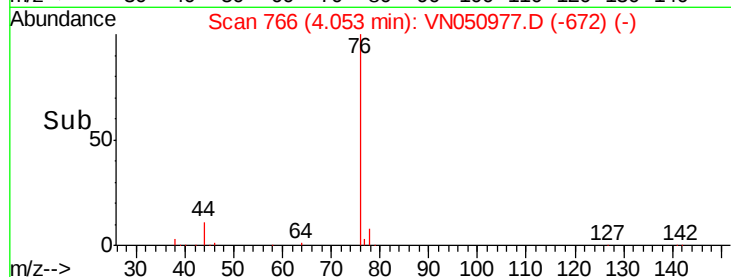
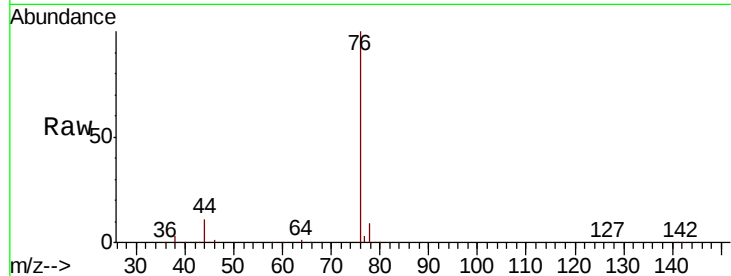
#17
Carbon Disulfide
Concen: 40.00 ug/l
RT: 4.05 min Scan# 766
Delta R.T. 0.00 min
Lab File: VN050977.D
Acq: 31 Aug 2018 10:20

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.3	7.3	10.9

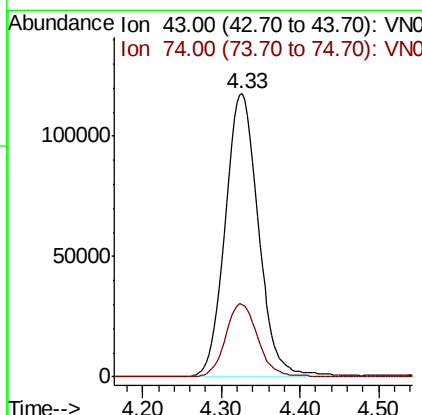
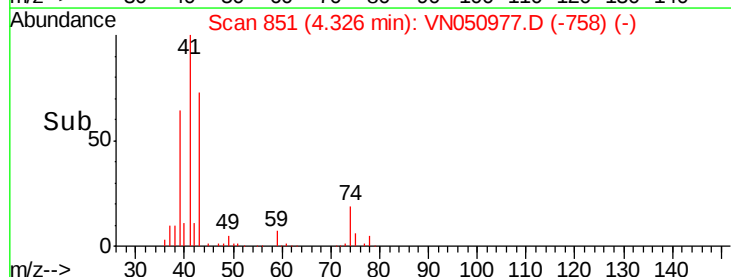
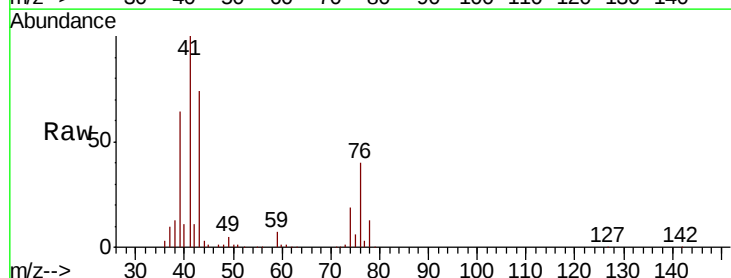
Manual Integrations
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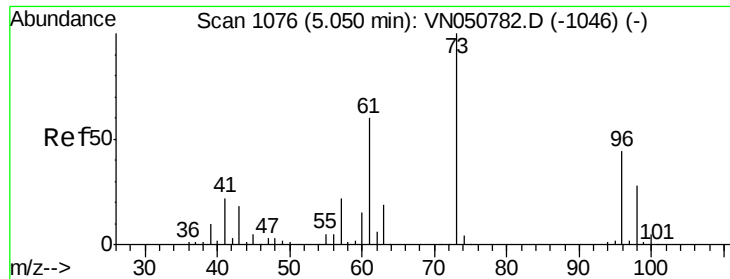
MMDadoda
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#18
Methyl Acetate
Concen: 49.67 ug/l
RT: 4.33 min Scan# 851
Delta R.T. 0.00 min
Lab File: VN050977.D
Acq: 31 Aug 2018 10:20

Tgt Ion	Ratio	Lower	Upper
43	100		
74	25.3	19.8	29.8





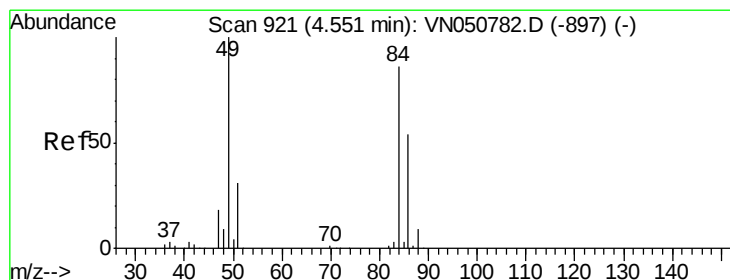
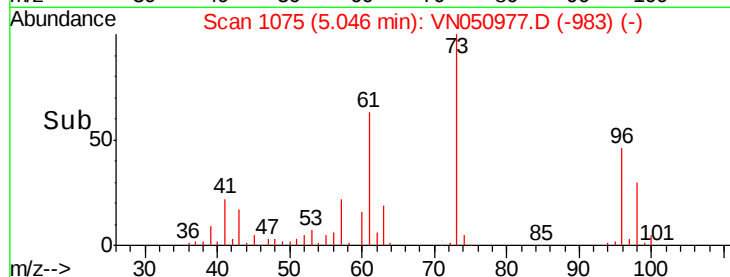
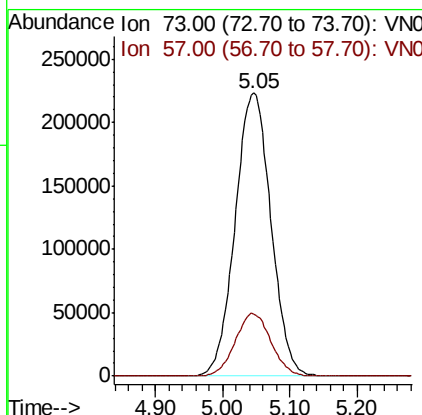
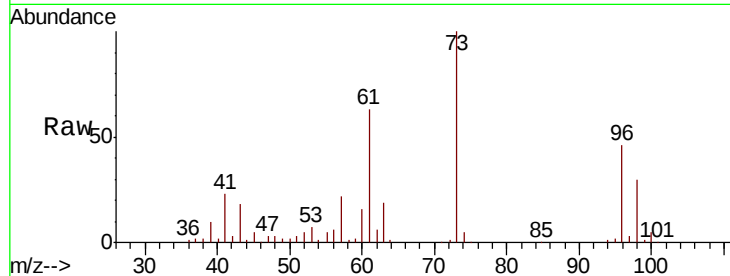
#19
Methyl tert-butyl Ether
Concen: 48.18 ug/l
RT: 5.05 min Scan# 1075
Delta R.T. -0.00 min
Lab File: VN050977.D
Acq: 31 Aug 2018 10:20

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion: 73 Resp: 824125
Ion Ratio Lower Upper
73 100
57 22.0 17.8 26.8

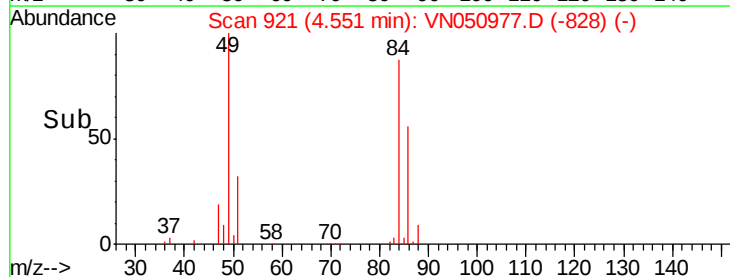
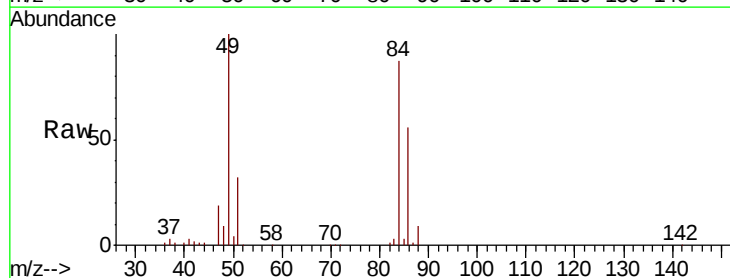
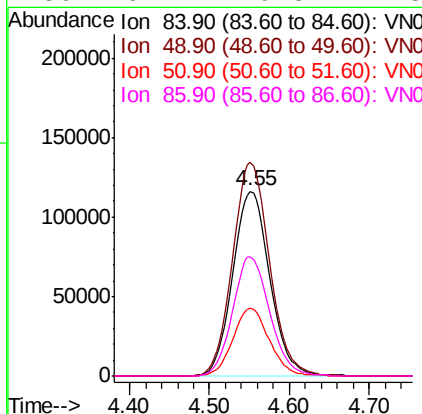
Manual Integrations
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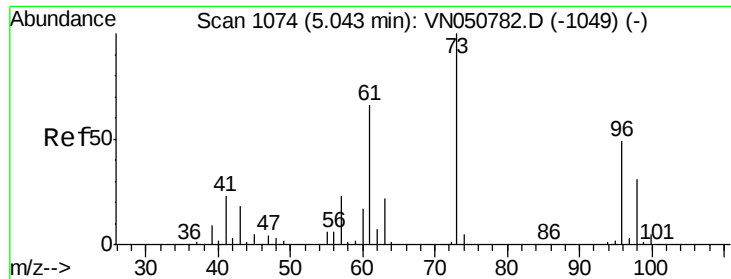
MMDadoda
9/4/2018 12:27:44 PM



#20
Methylene Chloride
Concen: 44.43 ug/l
RT: 4.55 min Scan# 921
Delta R.T. -0.00 min
Lab File: VN050977.D
Acq: 31 Aug 2018 10:20

Tgt Ion: 84 Resp: 364956
Ion Ratio Lower Upper
84 100
49 115.6 93.2 139.8
51 36.5 29.0 43.6
86 64.4 49.8 74.8





#21

trans-1,2-Dichloroethene

Concen: 45.90 ug/l

RT: 5.04 min Scan# 1073

Delta R.T. -0.00 min

Lab File: VN050977.D

Acq: 31 Aug 2018 10:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 96 Resp: 337626

Ion Ratio Lower Upper

96 100

61 134.7 107.4 161.0

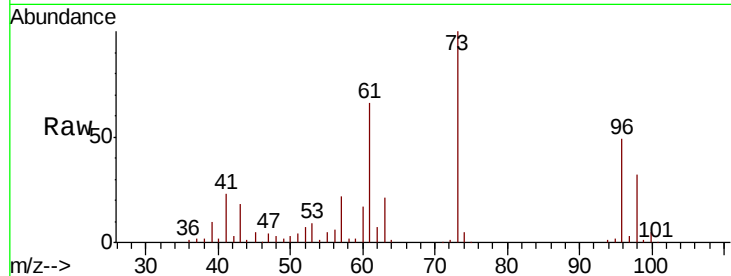
98 64.7 50.7 76.1

Manual Integrations

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Abundance

Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

200000

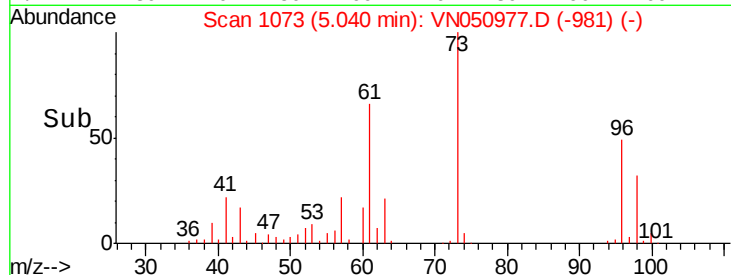
150000

100000

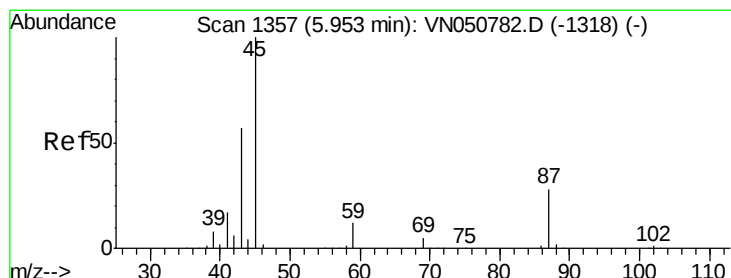
50000

0

Time-->



Time-->



#22

Diisopropyl ether

Concen: 49.44 ug/l

RT: 5.95 min Scan# 1357

Delta R.T. -0.00 min

Lab File: VN050977.D

Acq: 31 Aug 2018 10:20

Tgt Ion: 45 Resp: 1044033

Ion Ratio Lower Upper

45 100

43 55.7 45.9 68.9

87 29.8 22.7 34.1

59 12.3 9.3 13.9

Abundance

Ion 45.00 (44.70 to 45.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

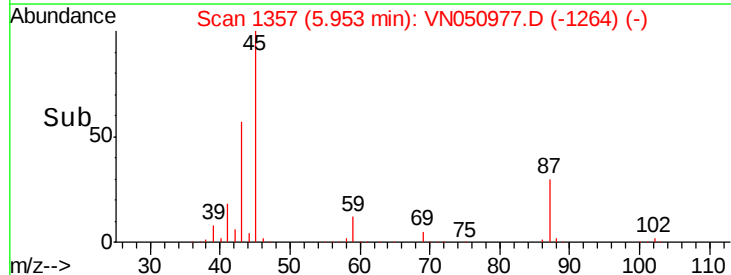
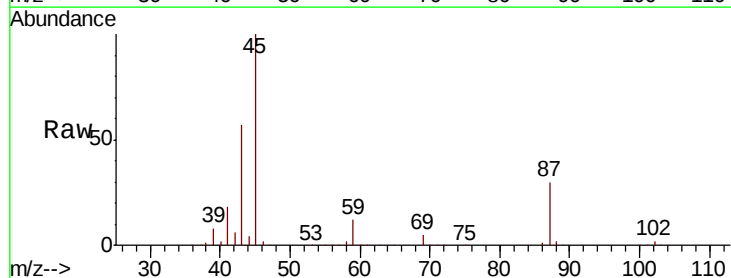
Ion 59.00 (58.70 to 59.70): VN0

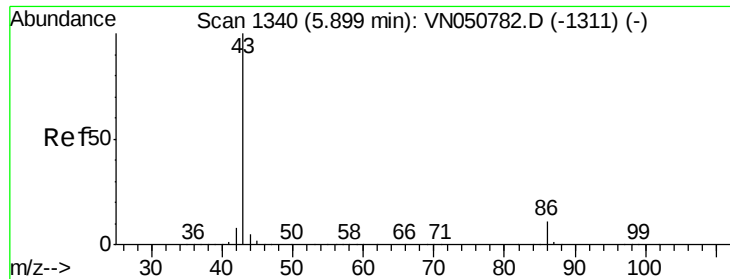
1000000

500000

0

Time-->





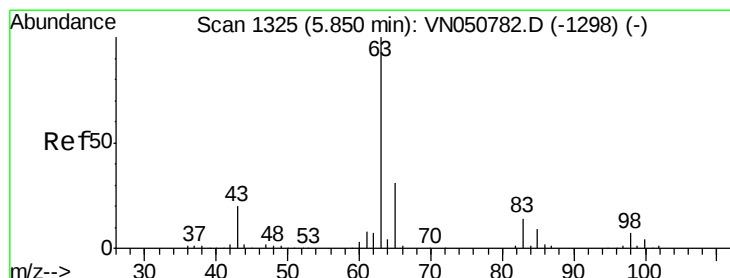
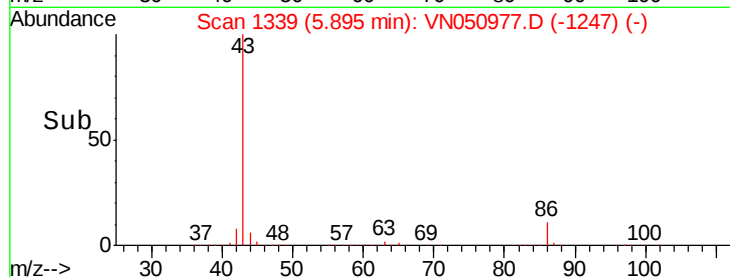
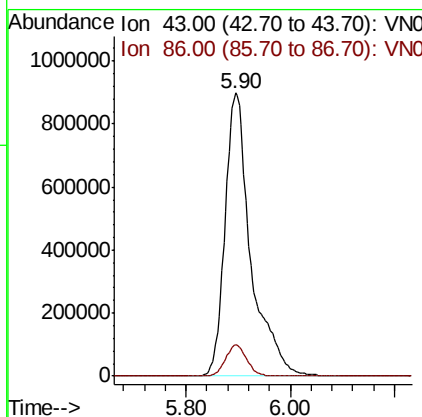
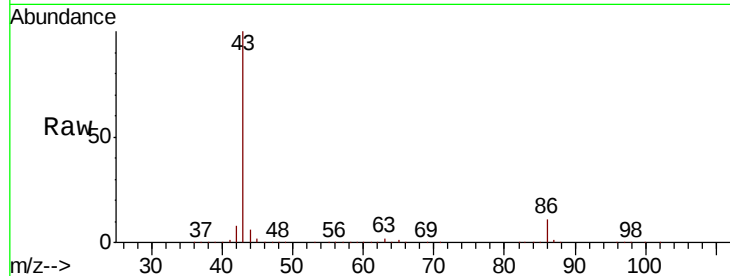
#23
 Vinyl Acetate
 Concen: 228.00 ug/l
 RT: 5.90 min Scan# 1339
 Delta R.T. -0.00 min
 Lab File: VN050977.D
 Acq: 31 Aug 2018 10:20

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion: 43 Resp: 3100744
 Ion Ratio Lower Upper
 43 100
 86 11.1 8.7 13.1

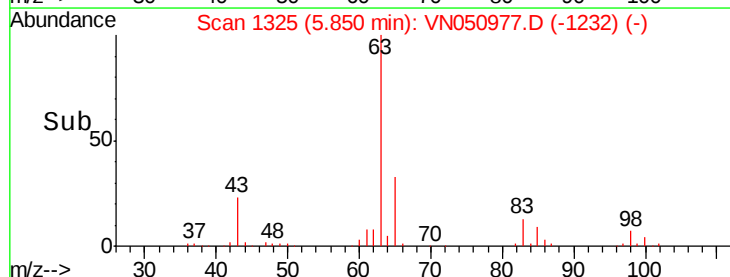
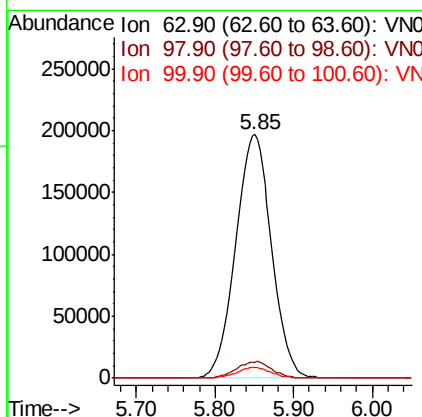
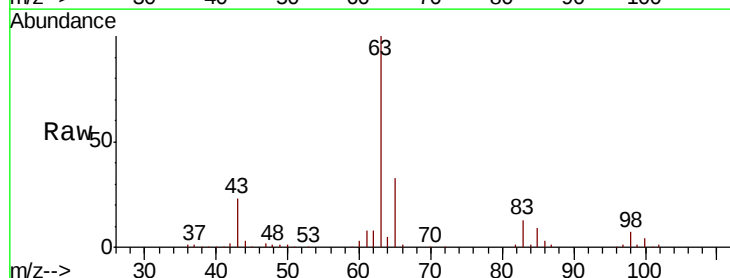
Manual Integrations
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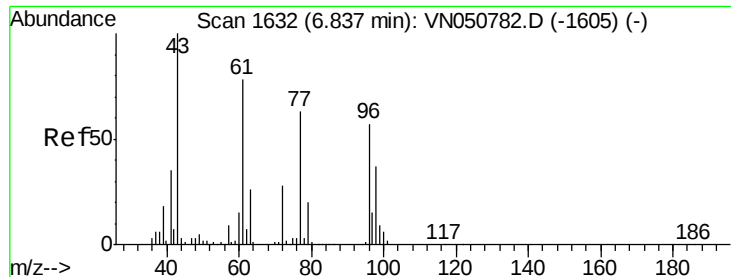
MMDadoda
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#24
 1,1-Dichloroethane
 Concen: 46.24 ug/l
 RT: 5.85 min Scan# 1325
 Delta R.T. -0.00 min
 Lab File: VN050977.D
 Acq: 31 Aug 2018 10:20

Tgt Ion: 63 Resp: 626914
 Ion Ratio Lower Upper
 63 100
 98 6.7 3.3 9.8
 100 4.3 2.1 6.5





#25

2-Butanone

Concen: 214.99 ug/l

RT: 6.84 min Scan# 1632

Delta R.T. -0.00 min

Lab File: VN050977.D

Acq: 31 Aug 2018 10:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 631518

Ion Ratio Lower Upper

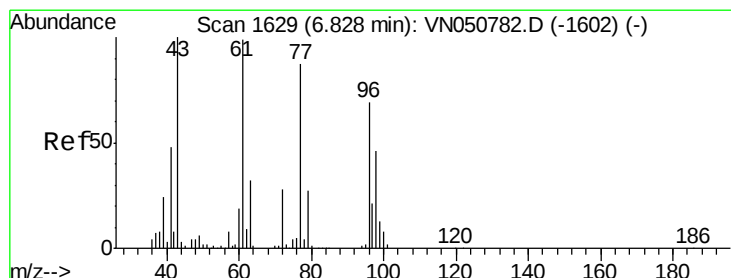
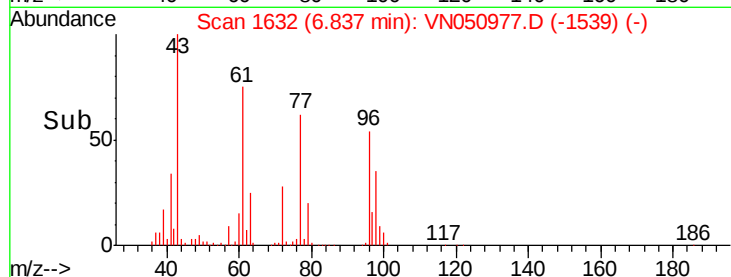
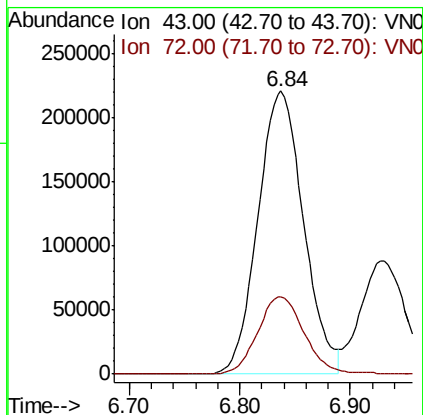
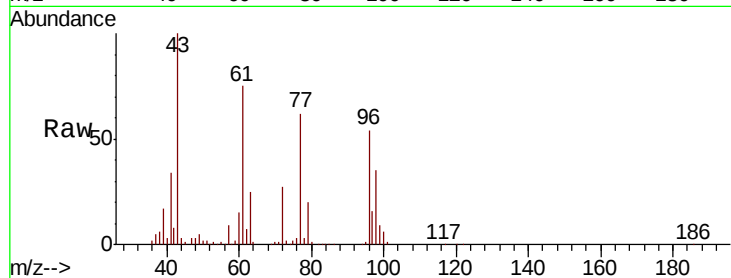
43 100

72 27.5 22.3 33.5

Manual Integrations
APPROVED

MMDadoda

9/4/2018 12:27:44 PM



#26

2,2-Dichloropropane

Concen: 46.86 ug/l

RT: 6.82 min Scan# 1628

Delta R.T. -0.00 min

Lab File: VN050977.D

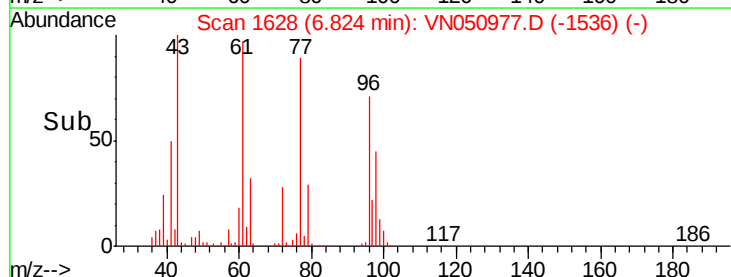
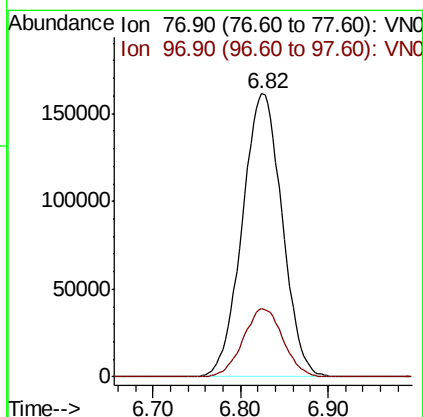
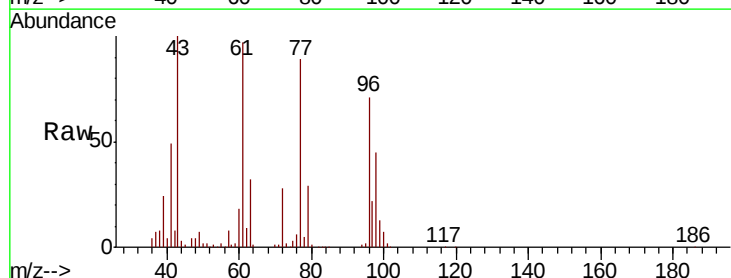
Acq: 31 Aug 2018 10:20

Tgt Ion: 77 Resp: 510494

Ion Ratio Lower Upper

77 100

97 24.1 12.0 36.0





#27

cis-1,2-Dichloroethene

Concen: 47.79 ug/l

RT: 6.83 min Scan# 1629

Delta R.T. -0.00 min

Lab File: VN050977.D

Acq: 31 Aug 2018 10:20

Instrument :

MSVOA_N

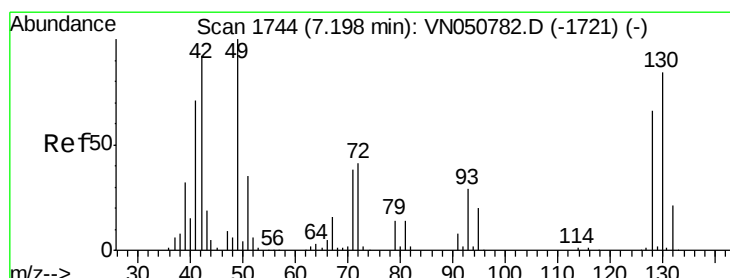
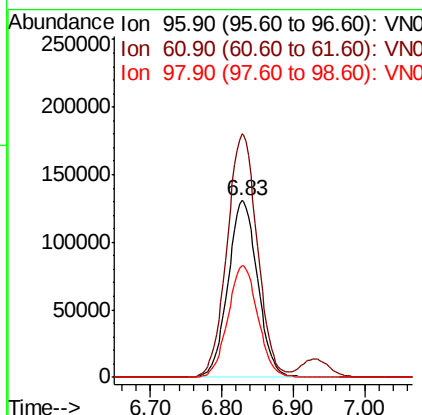
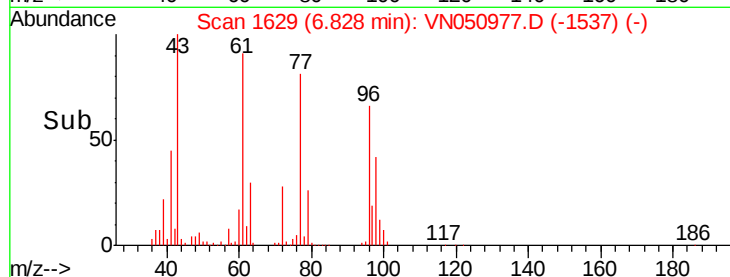
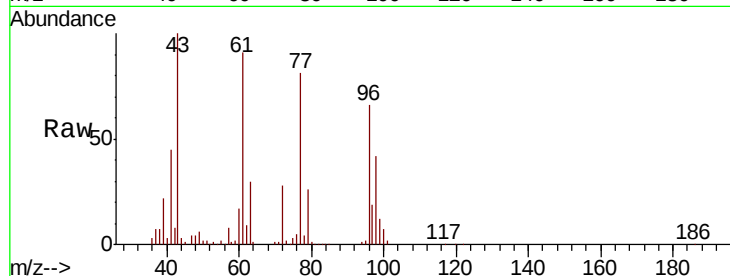
ClientSampleId :

VSTDCCC050

Tot Ion:	96	Resp:	378913
Ion	Ratio	Lower	Upper
96	100		
61	140.6	0.0	283.4
98	63.9	0.0	129.8

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#28

Bromochloromethane

Concen: 49.65 ug/l

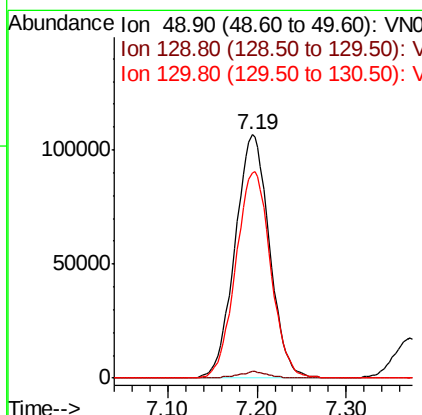
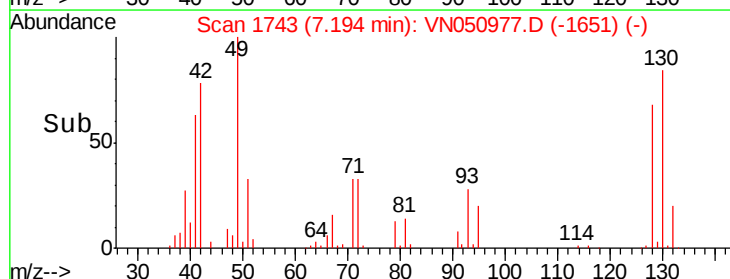
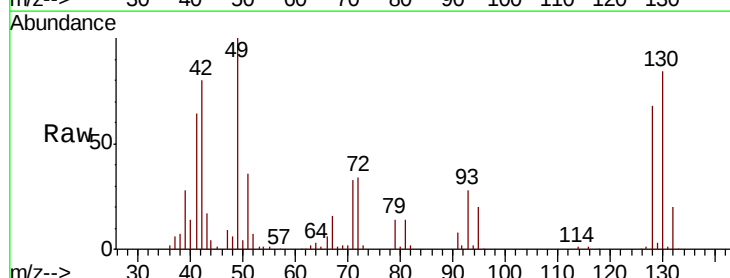
RT: 7.19 min Scan# 1743

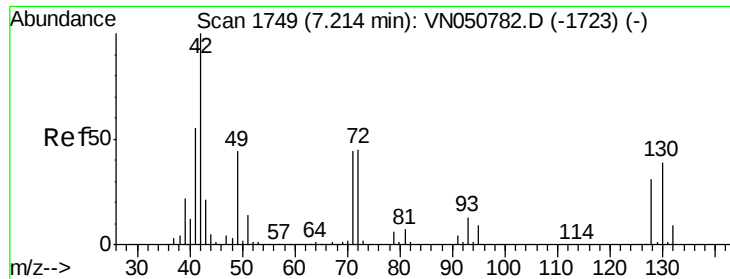
Delta R.T. -0.00 min

Lab File: VN050977.D

Acq: 31 Aug 2018 10:20

Tgt Ion:	49	Resp:	286030
Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	4.2
130	85.9	67.1	100.7





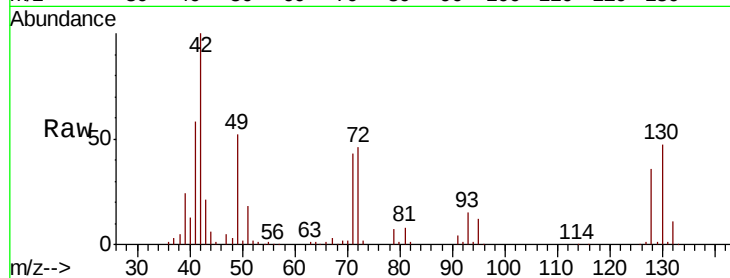
#29
Tetrahydrofuran
Concen: 227.69 ug/l
RT: 7.21 min Scan# 1748
Delta R.T. -0.00 min
Lab File: VN050977.D
Acq: 31 Aug 2018 10:20

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

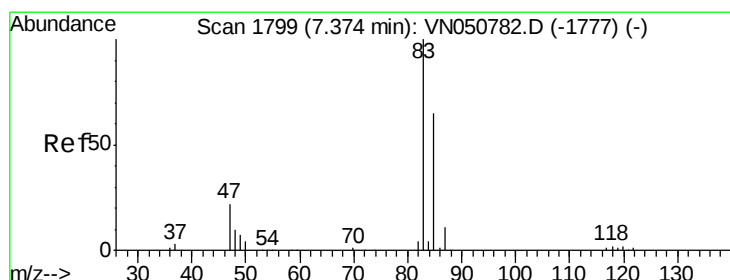
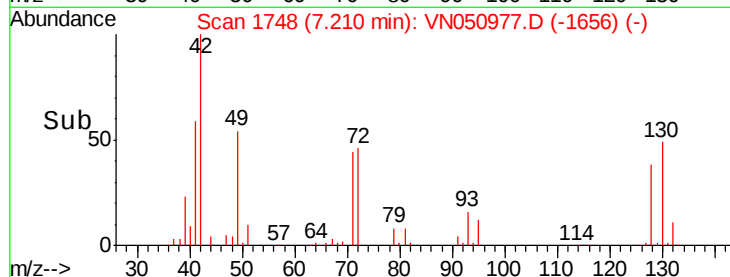
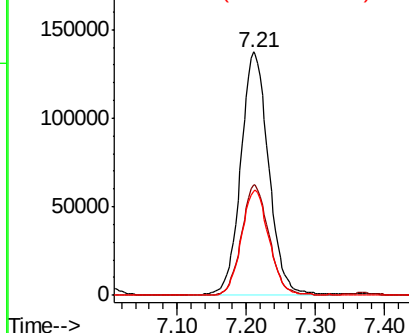
Tot Ion	Ratio	Lower	Upper
42	100		
72	45.1	35.5	53.3
71	43.0	33.7	50.5

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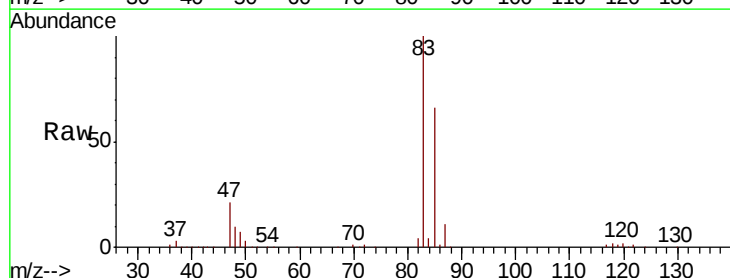


Abundance Ion 42.00 (41.70 to 42.70): VN0
Ion 72.00 (71.70 to 72.70): VN0
Ion 71.00 (70.70 to 71.70): VN0

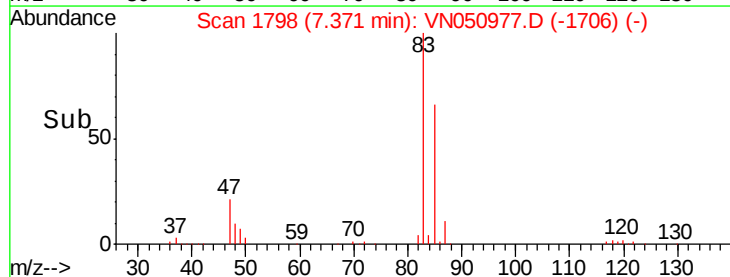
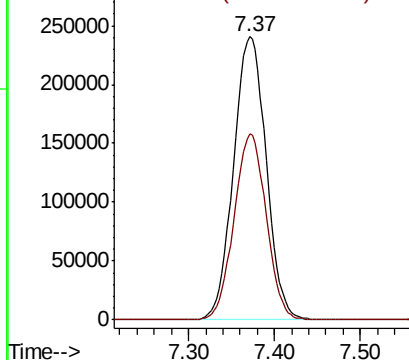


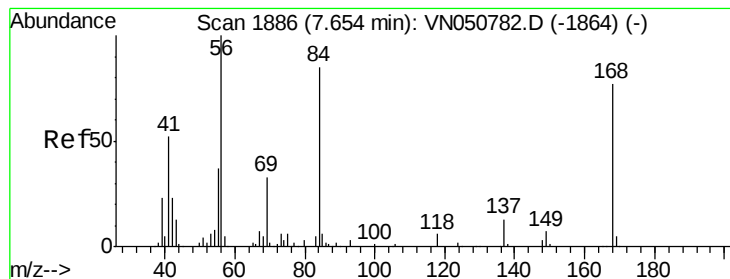
#30
Chloroform
Concen: 47.24 ug/l
RT: 7.37 min Scan# 1798
Delta R.T. -0.00 min
Lab File: VN050977.D
Acq: 31 Aug 2018 10:20

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.8	52.2	78.4



Abundance Ion 82.90 (82.60 to 83.60): VN0
Ion 84.90 (84.60 to 85.60): VN0





#31

Cyclohexane

Concen: 45.05 ug/l

RT: 7.65 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VN050977.D

Acq: 31 Aug 2018 10:20

Instrument :

MSVOA_N

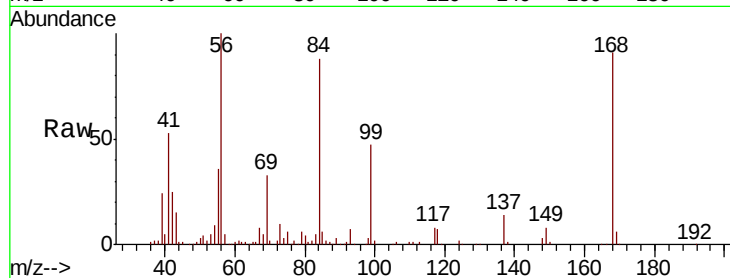
ClientSampled :

VSTDCCC050

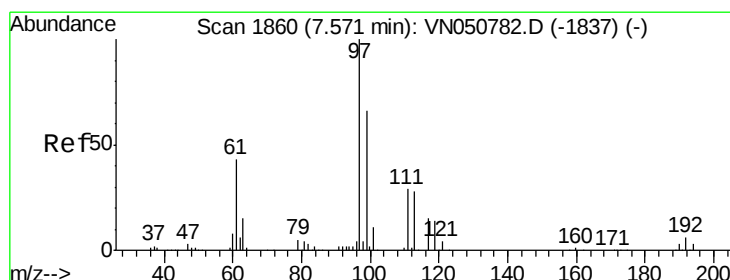
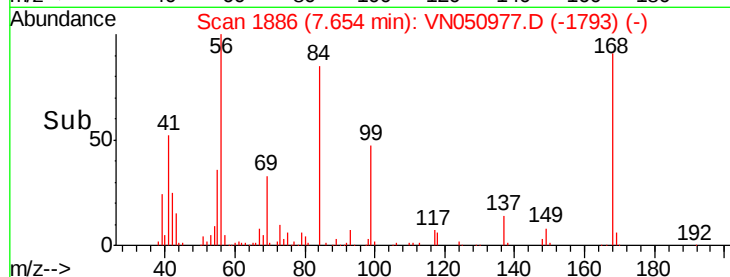
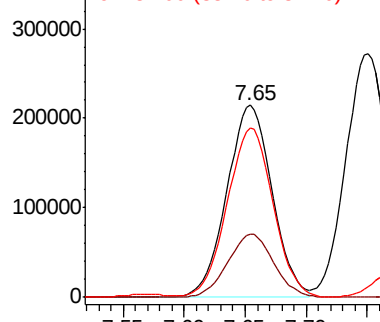
Tot Ion:	56	Resp:	554554
Ion	Ratio	Lower	Upper
56	100		
69	33.0	26.2	39.4
84	86.8	68.3	102.5

Manual Integrations
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Abundance Ion 56.00 (55.70 to 56.70): VN050977.D (-1793) (-)



#32

1,1,1-Trichloroethane

Concen: 46.88 ug/l

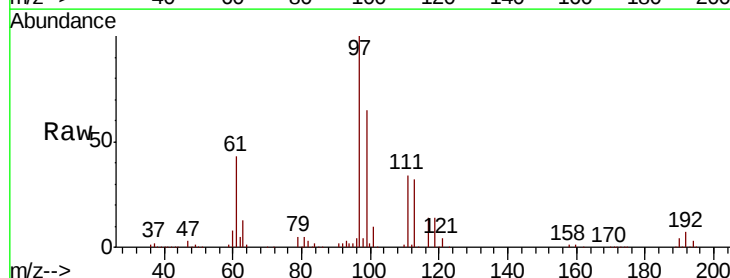
RT: 7.57 min Scan# 1860

Delta R.T. -0.00 min

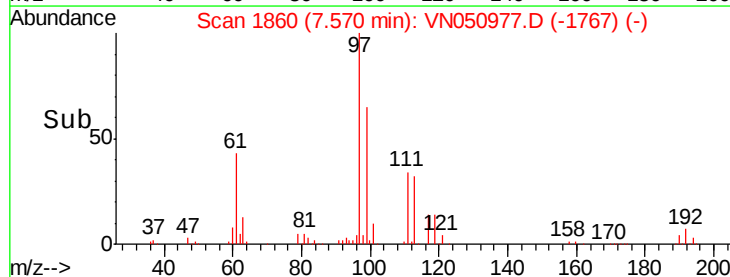
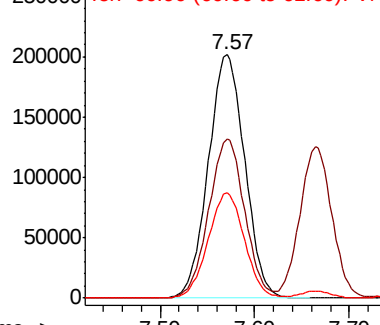
Lab File: VN050977.D

Acq: 31 Aug 2018 10:20

Tgt Ion:	97	Resp:	540564
Ion	Ratio	Lower	Upper
97	100		
99	64.4	51.8	77.6
61	43.0	34.9	52.3



Abundance Ion 96.90 (96.60 to 97.60): VN050977.D (-1767) (-)





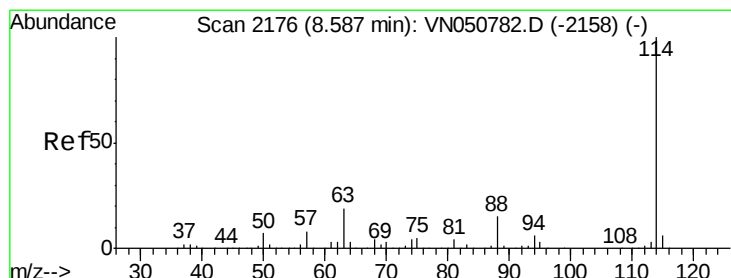
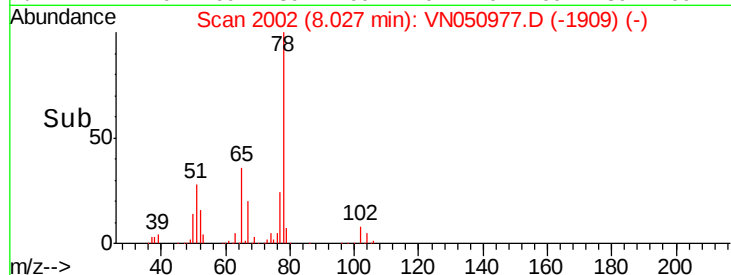
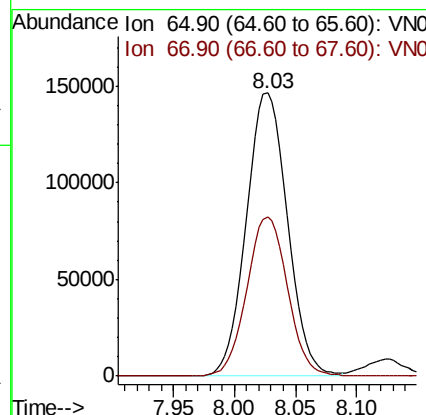
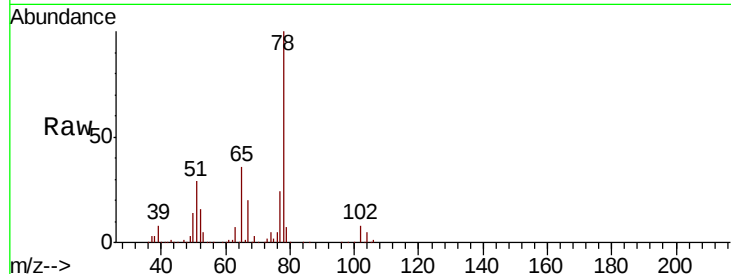
#33
 1,2-Dichloroethane-d4
 Concen: 46.89 ug/l
 RT: 8.03 min Scan# 2002
 Delta R.T. -0.00 min
 Lab File: VN050977.D
 Acq: 31 Aug 2018 10:20

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
65	100	341815		
67	55.7	0.0	110.4	

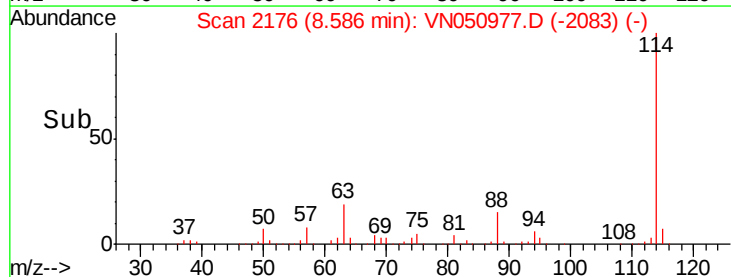
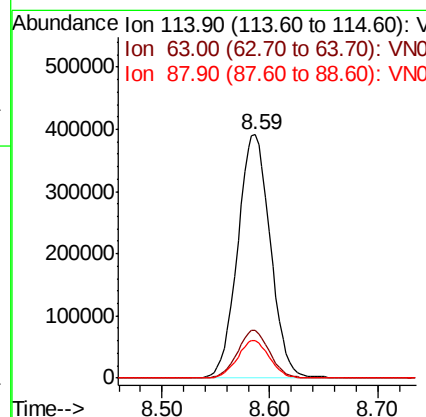
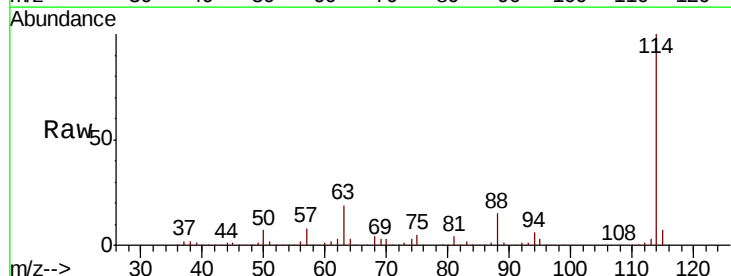
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#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. -0.00 min
 Lab File: VN050977.D
 Acq: 31 Aug 2018 10:20

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	825115		
63	19.5	0.0	38.6	
88	15.4	0.0	30.6	





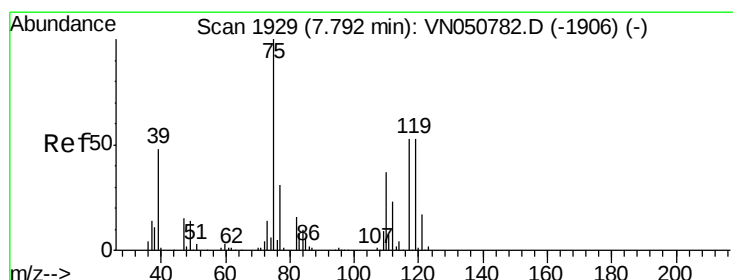
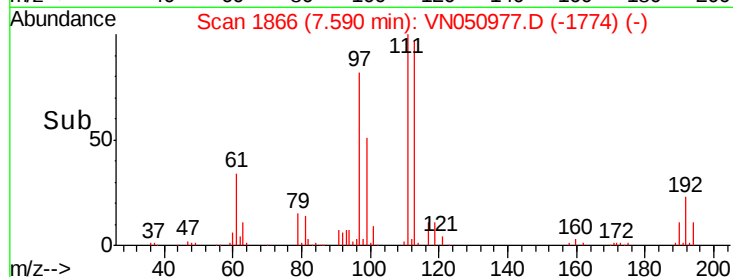
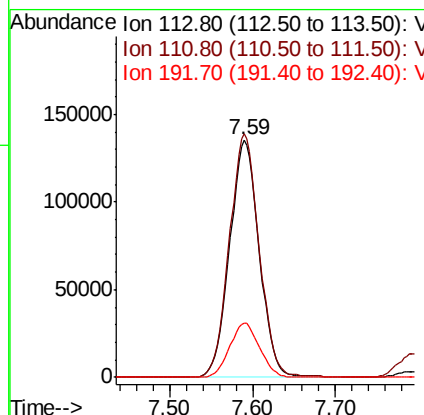
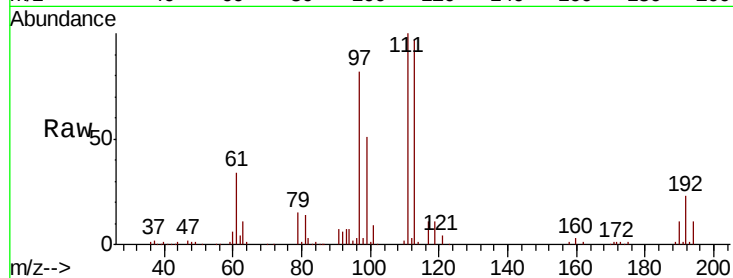
#35
 Dibromofluoromethane
 Concen: 51.07 ug/l
 RT: 7.59 min Scan# 1866
 Delta R.T. -0.00 min
 Lab File: VN050977.D
 Acq: 31 Aug 2018 10:20

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	103.4	82.6	123.8	
192	23.3	18.0	27.0	

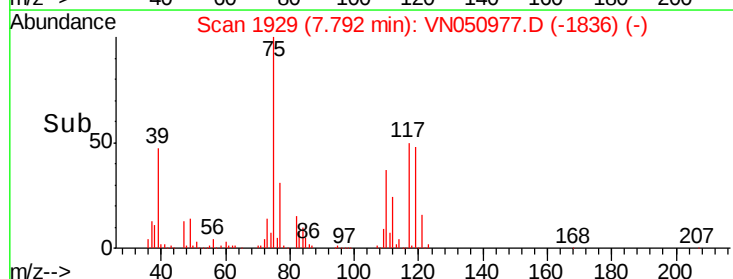
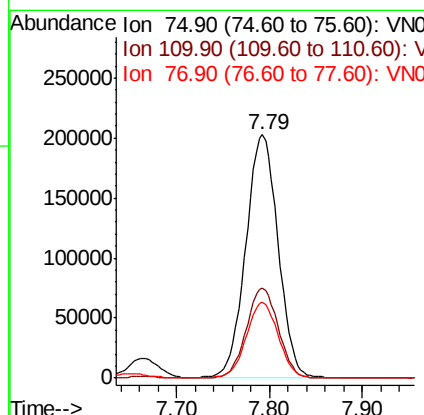
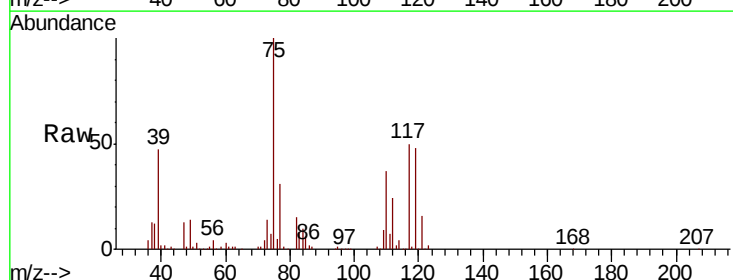
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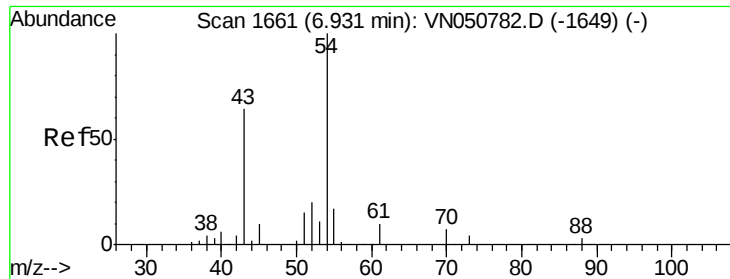
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#36
 1,1-Dichloropropene
 Concen: 50.25 ug/l
 RT: 7.79 min Scan# 1929
 Delta R.T. -0.00 min
 Lab File: VN050977.D
 Acq: 31 Aug 2018 10:20

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
110	36.7	18.1	54.4	
77	30.9	24.8	37.2	





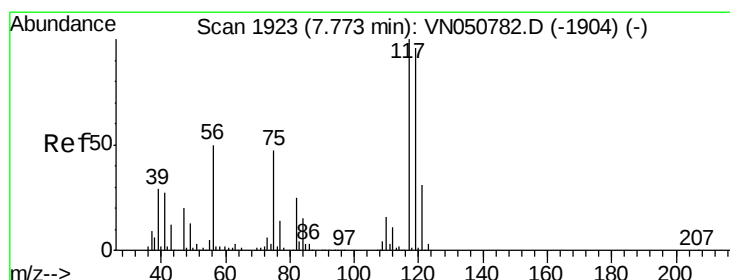
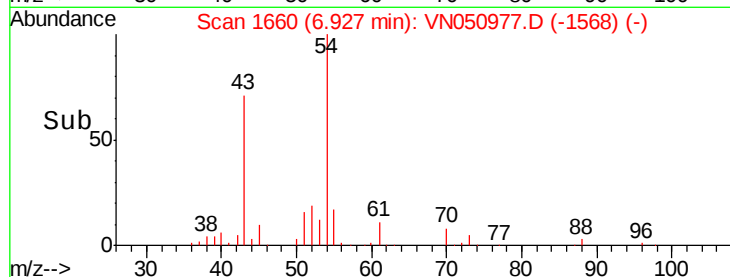
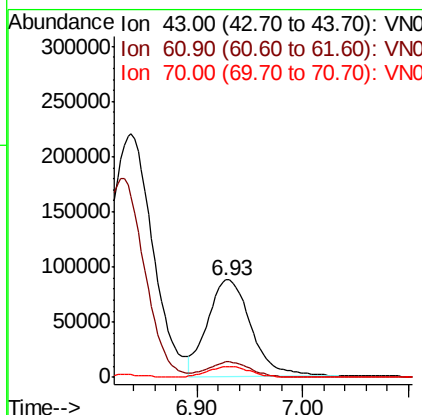
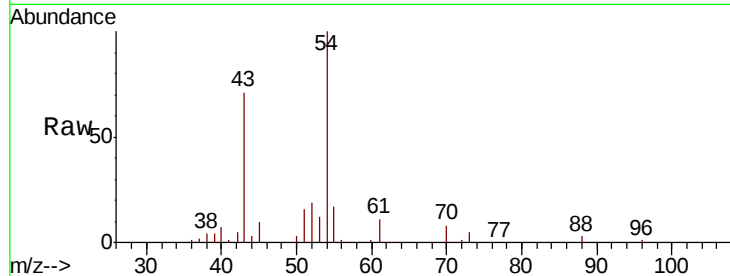
#37
Ethyl Acetate
Concen: 44.81 ug/l
RT: 6.93 min Scan# 1660
Delta R.T. -0.00 min
Lab File: VN050977.D
Acq: 31 Aug 2018 10:20

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	15.2	12.0	18.0
70	10.9	8.6	13.0

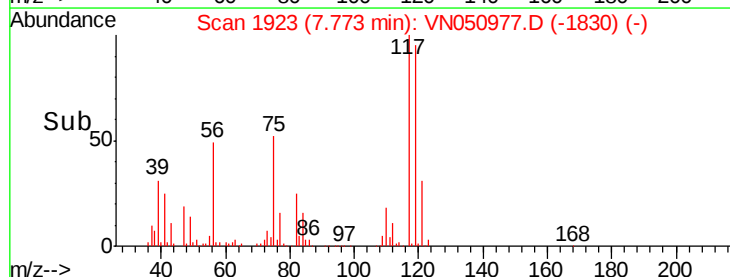
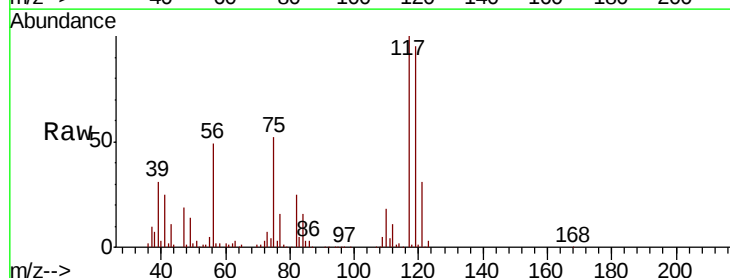
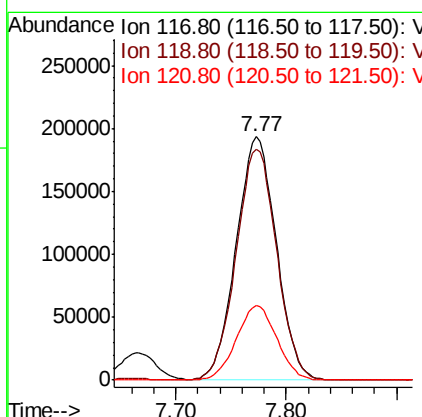
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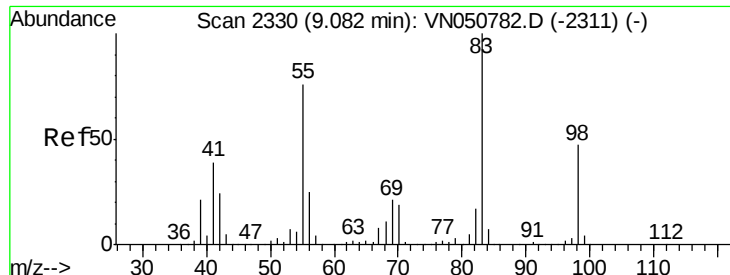
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#38
Carbon Tetrachloride
Concen: 49.19 ug/l
RT: 7.77 min Scan# 1923
Delta R.T. -0.00 min
Lab File: VN050977.D
Acq: 31 Aug 2018 10:20

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.0	76.3	114.5
121	30.6	24.6	36.8





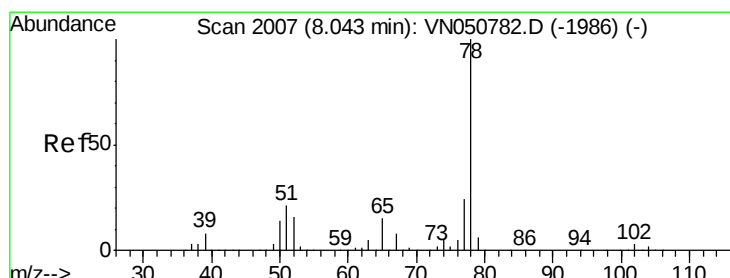
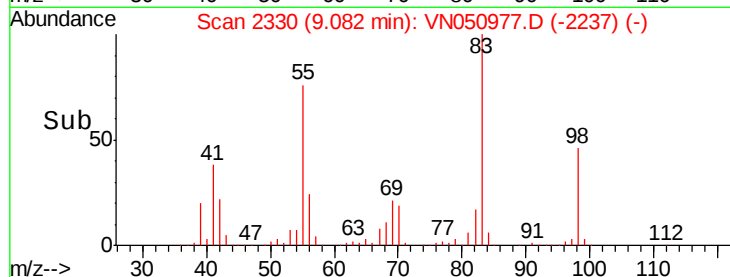
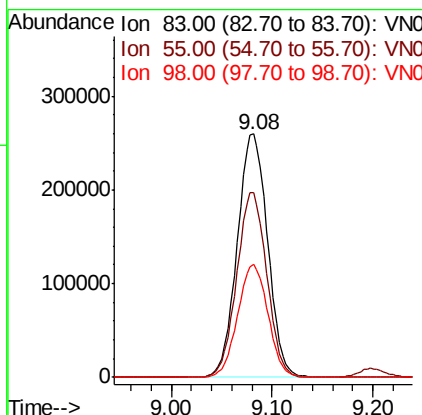
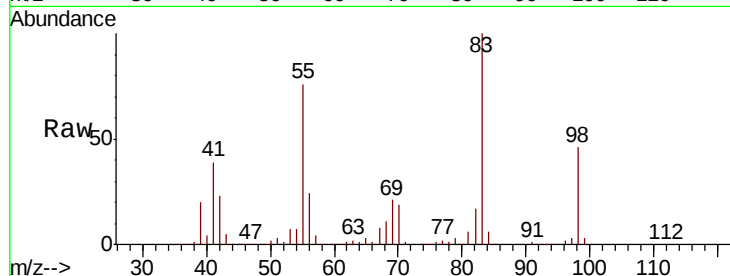
#39
Methvlcvclohexane
Concen: 51.40 ug/l
RT: 9.08 min Scan# 2330
Delta R.T. 0.00 min
Lab File: VN050977.D
Acq: 31 Aug 2018 10:20

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
83	100		
55	75.9	61.0	91.4
98	46.4	37.5	56.3

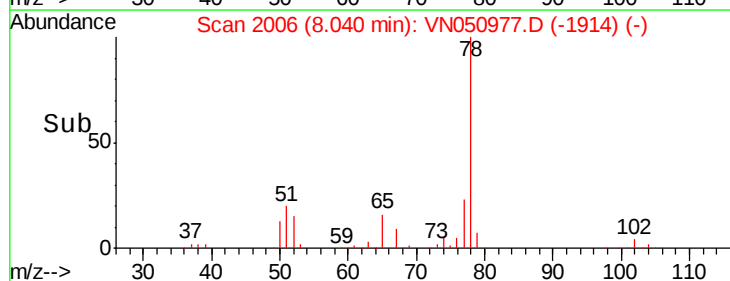
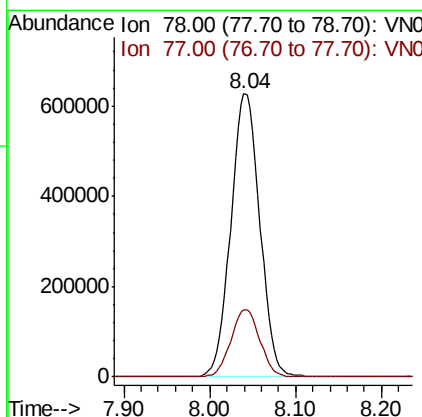
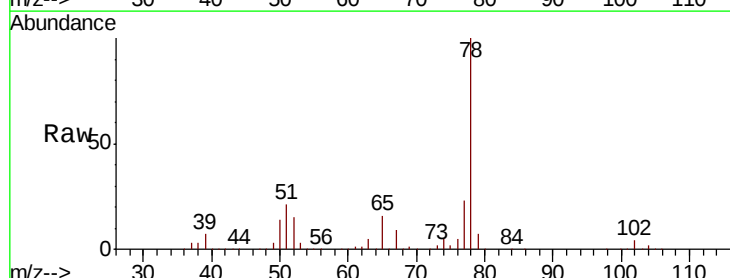
Manual Integrations
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#40
Benzene
Concen: 50.02 ug/l
RT: 8.04 min Scan# 2006
Delta R.T. -0.00 min
Lab File: VN050977.D
Acq: 31 Aug 2018 10:20

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.5	19.0	28.4





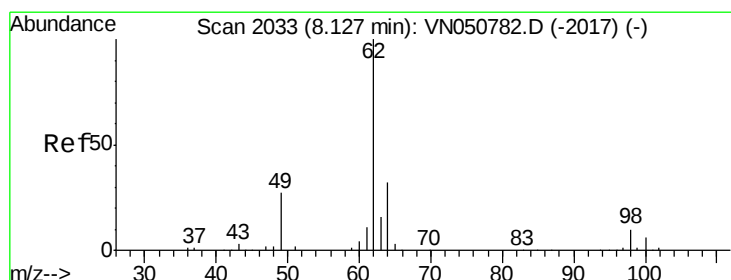
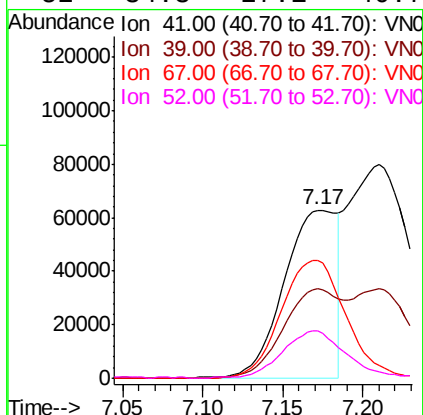
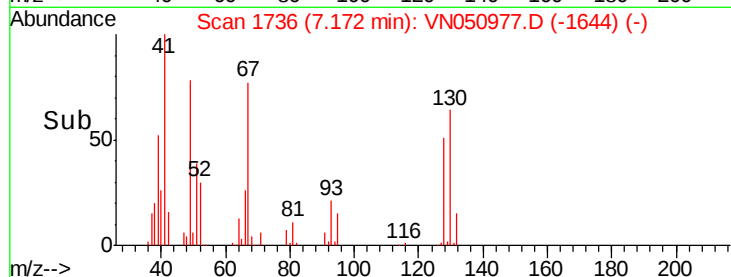
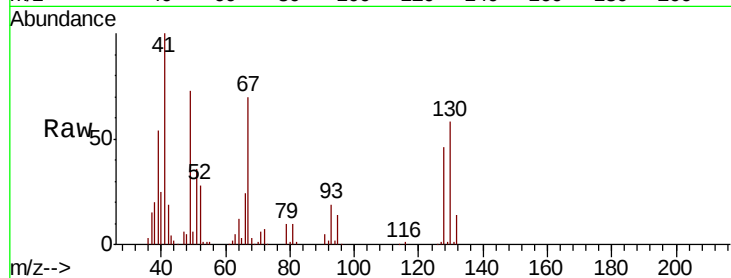
#41
Methacrylonitrile
Concen: 48.13 ug/l
RT: 7.17 min Scan# 1736
Delta R.T. -0.00 min
Lab File: VN050977.D
Acq: 31 Aug 2018 10:20

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ion	Ratio	Resp	Lower	Upper
41	100				
39	56.8	45.4	68.0		
67	85.0	70.6	106.0		
52	34.3	27.1	40.7		

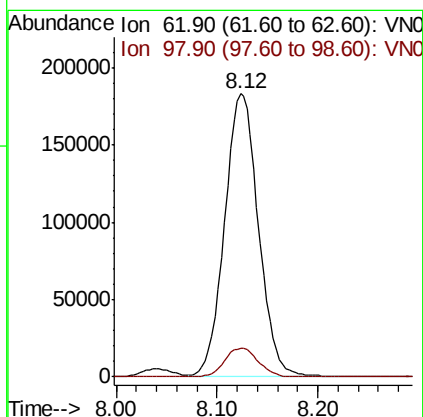
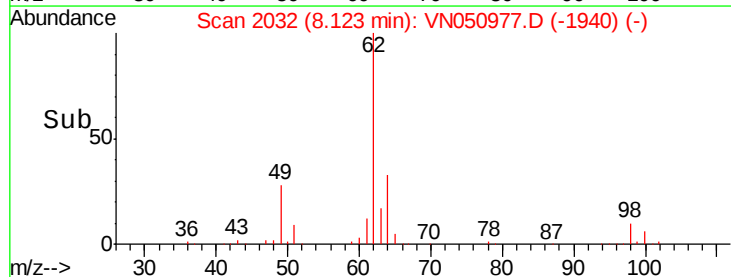
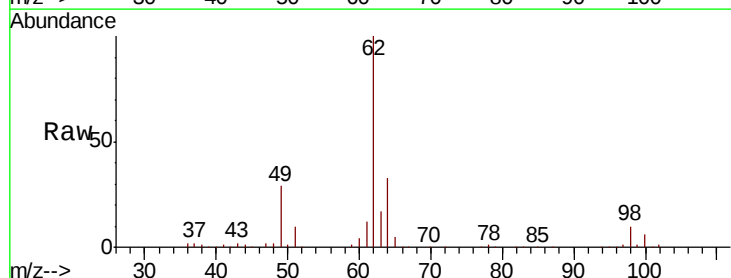
Manual Integrations
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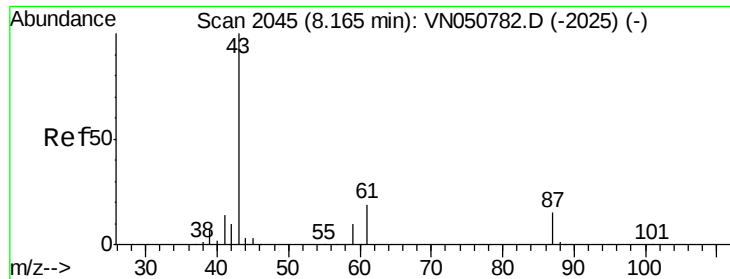
MMDadoda
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#42
1,2-Dichloroethane
Concen: 48.51 ug/l
RT: 8.12 min Scan# 2032
Delta R.T. -0.00 min
Lab File: VN050977.D
Acq: 31 Aug 2018 10:20

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
62	100				
98	10.2	0.0	19.6		





#43

Isopropyl Acetate

Concen: 48.23 ug/l

RT: 8.17 min Scan# 2045

Delta R.T. 0.00 min

Lab File: VN050977.D

Acq: 31 Aug 2018 10:20

Instrument :

MSVOA_N

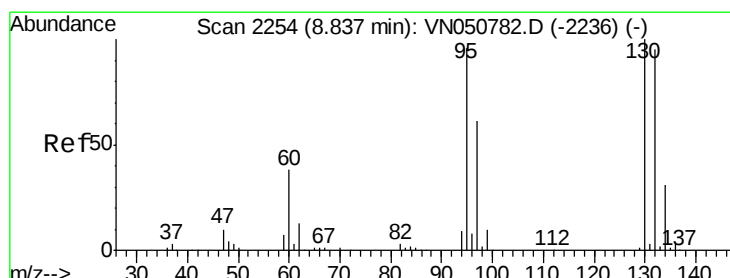
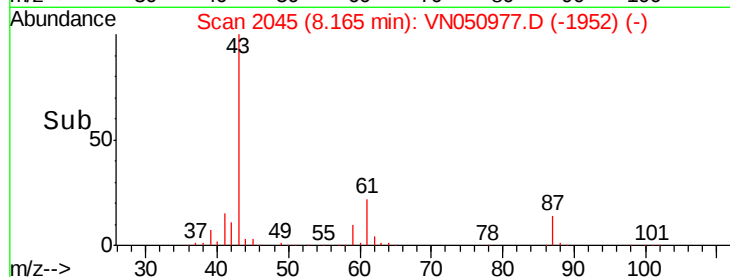
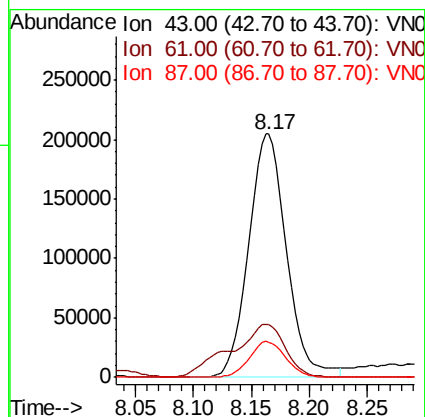
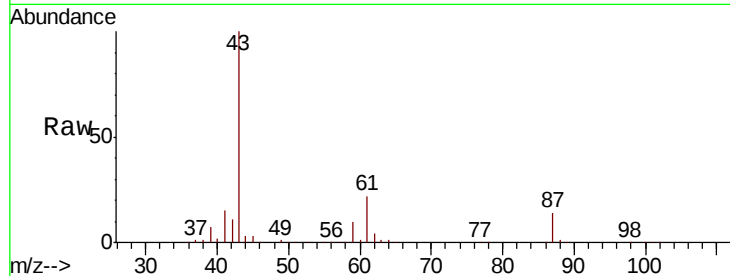
ClientSampleId :

VSTDCCC050

Tot Ion:	43	Resp:	463806
Ion	Ratio	Lower	Upper
43	100		
61	31.0	17.5	26.3#
87	14.2	11.3	16.9

Manual Integrations
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#44

Trichloroethene

Concen: 49.58 ug/l

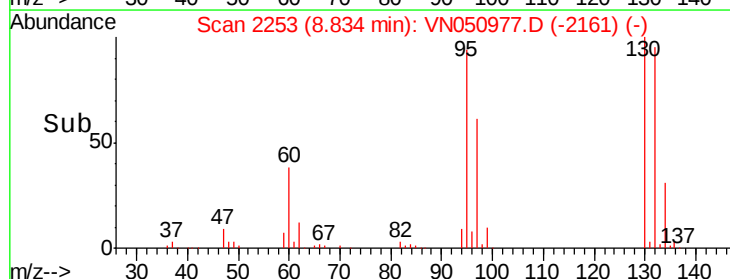
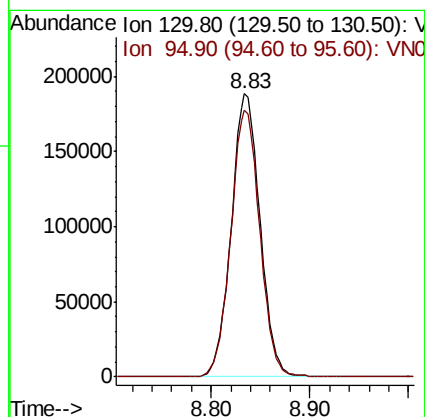
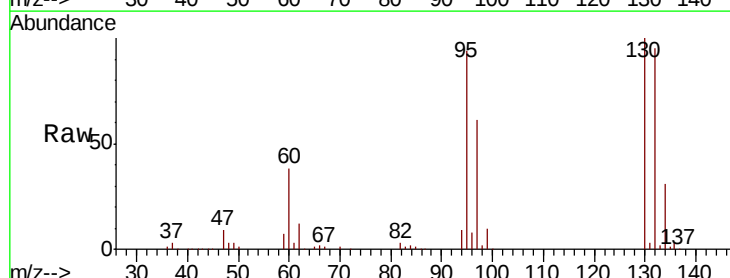
RT: 8.83 min Scan# 2253

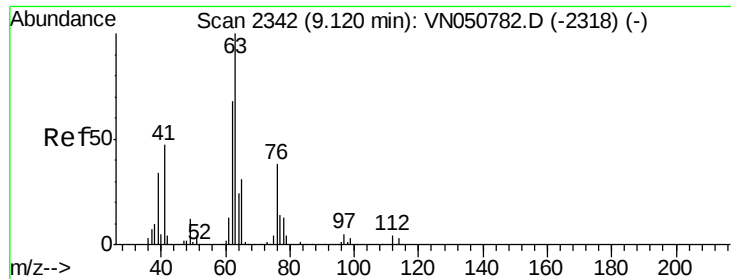
Delta R.T. -0.00 min

Lab File: VN050977.D

Acq: 31 Aug 2018 10:20

Tgt Ion:	130	Resp:	383896
Ion	Ratio	Lower	Upper
130	100		
95	94.1	0.0	193.0





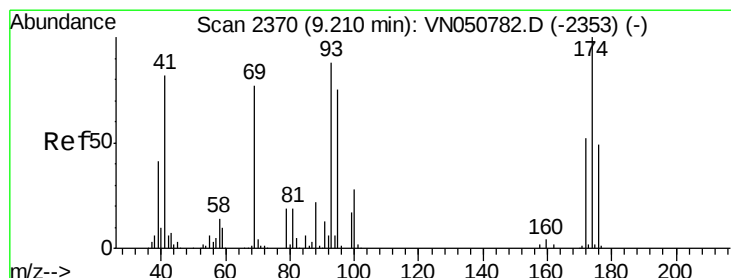
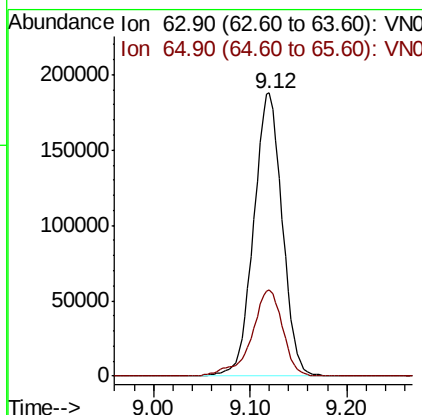
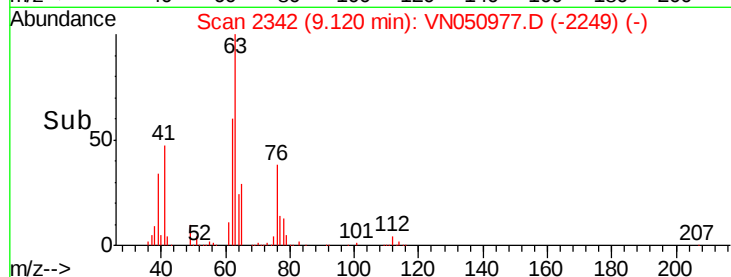
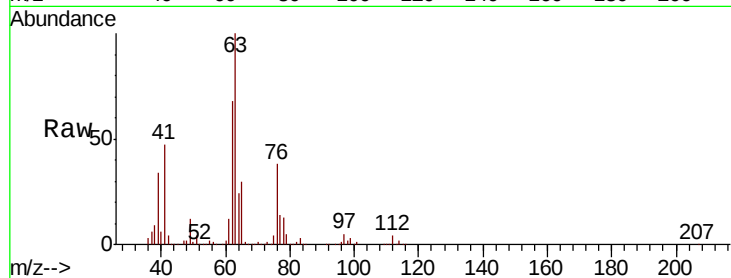
#45
 1,2-Dichloropropane
 Concen: 49.84 ug/l
 RT: 9.12 min Scan# 2342
 Delta R.T. -0.00 min
 Lab File: VN050977.D
 Acq: 31 Aug 2018 10:20

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
63	100		
65	30.3	25.0	37.6

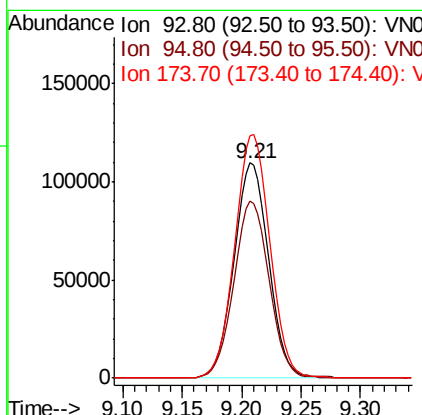
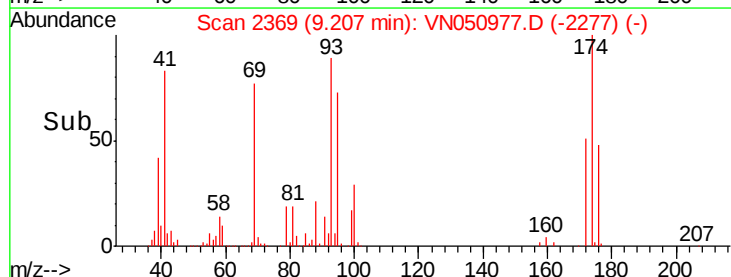
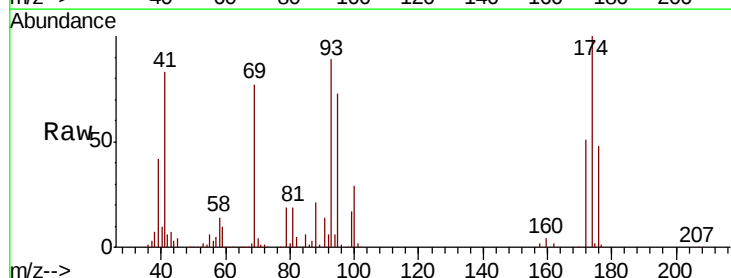
Manual Integrations
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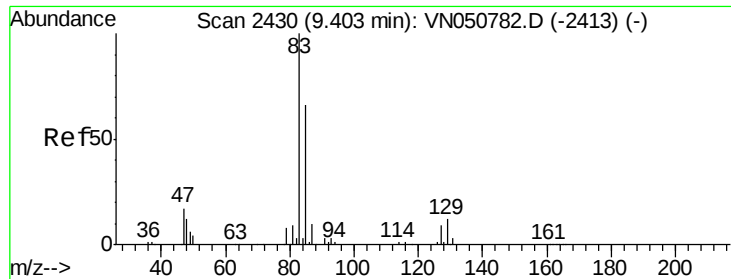
MMDadoda
 9/4/2018 12:27:44 PM



#46
 Dibromomethane
 Concen: 49.04 ug/l
 RT: 9.21 min Scan# 2369
 Delta R.T. -0.00 min
 Lab File: VN050977.D
 Acq: 31 Aug 2018 10:20

Tgt Ion	Ratio	Lower	Upper
93	100		
95	83.2	66.7	100.1
174	114.6	89.8	134.6





#47

Bromodichloromethane

Concen: 50.78 ug/l

RT: 9.40 min Scan# 2430

Delta R.T. -0.00 min

Lab File: VN050977.D

Acq: 31 Aug 2018 10:20

Instrument :

MSVOA_N

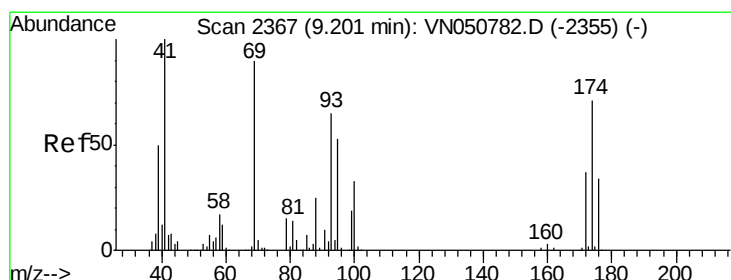
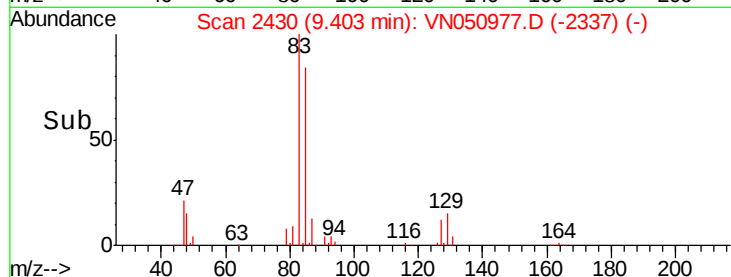
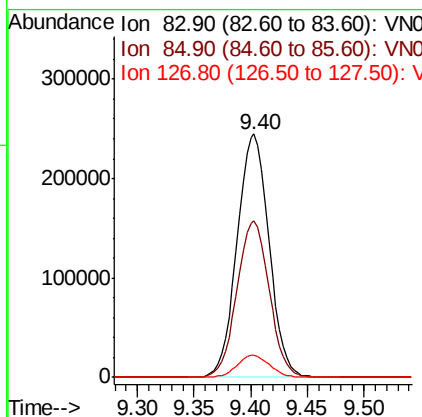
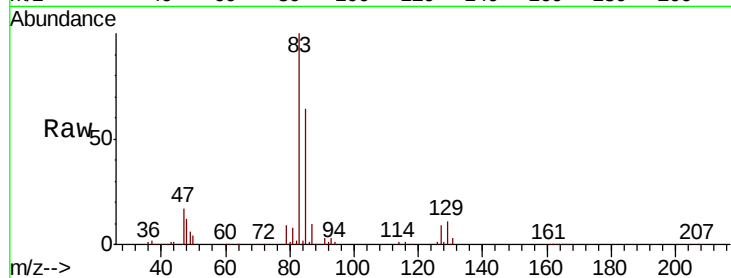
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	482233
Ion Ratio	Lower	Upper	
83	100		
85	64.4	52.6	78.8
127	9.0	7.2	10.8

Manual Integrations
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#48

Methyl methacrylate

Concen: 47.63 ug/l

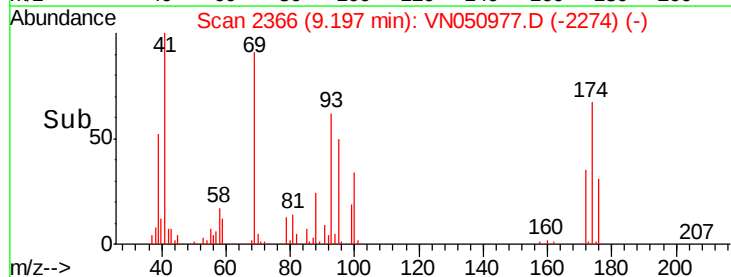
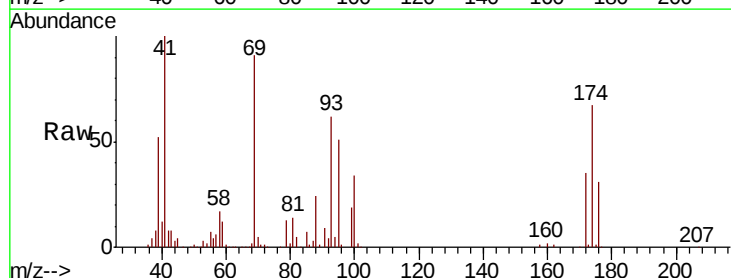
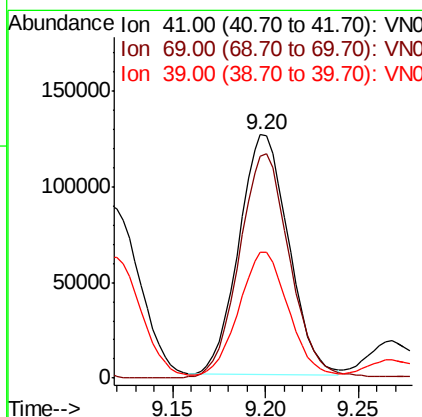
RT: 9.20 min Scan# 2366

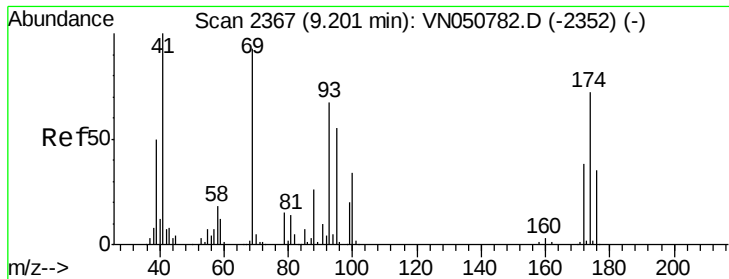
Delta R.T. -0.00 min

Lab File: VN050977.D

Acq: 31 Aug 2018 10:20

Tgt Ion:	41	Resp:	233418
Ion Ratio	Lower	Upper	
41	100		
69	95.9	74.7	112.1
39	52.6	42.2	63.2





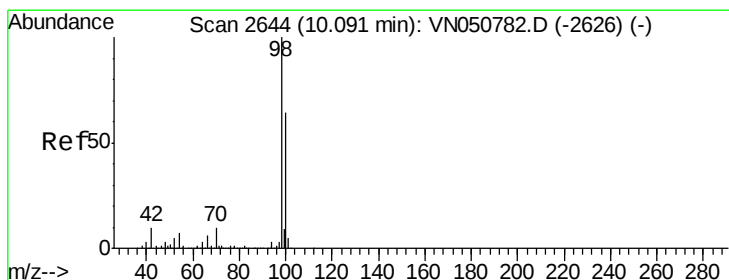
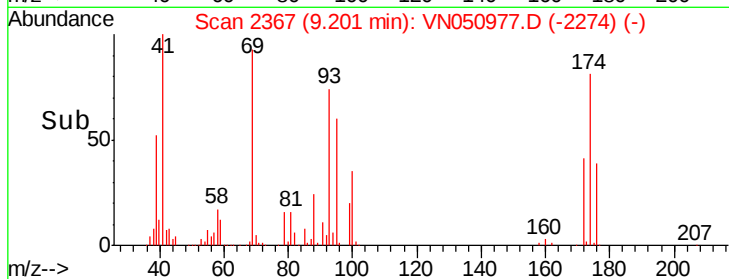
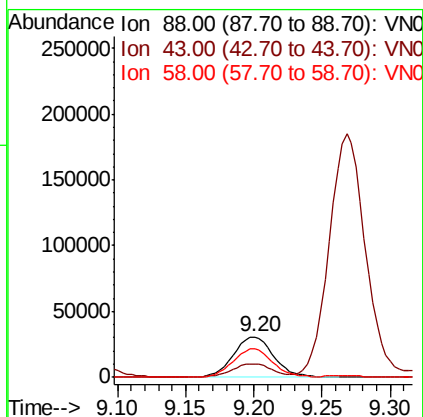
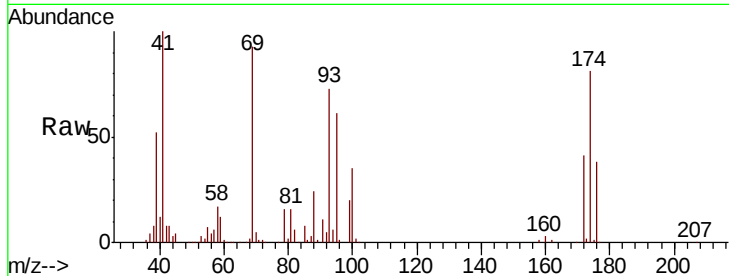
#49
1,4-Dioxane
Concen: 951.73 ug/l
RT: 9.20 min Scan# 2367
Delta R.T. -0.00 min
Lab File: VN050977.D
Acq: 31 Aug 2018 10:20

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
88	100		
43	31.1	25.9	38.9
58	69.2	55.0	82.4

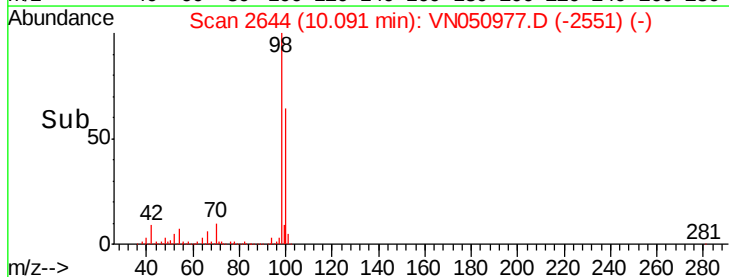
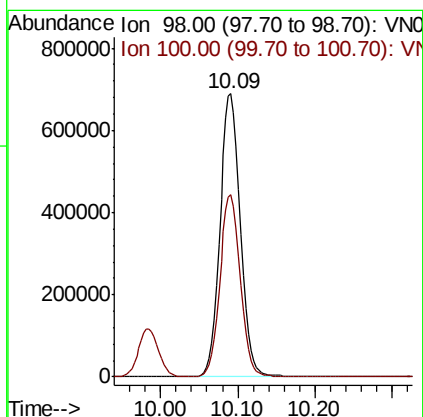
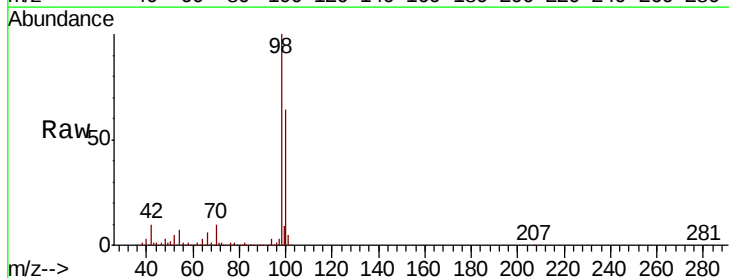
Manual Integrations
APPROVED

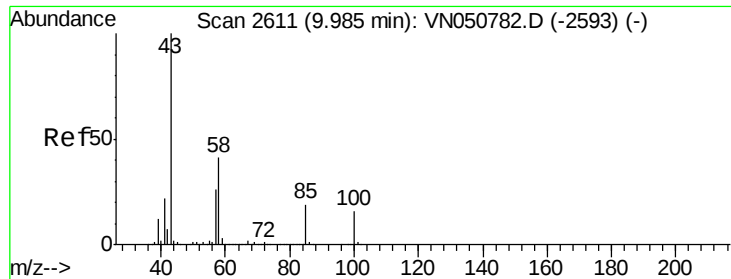
MMDadoda
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#50
Toluene-d8
Concen: 51.67 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. -0.00 min
Lab File: VN050977.D
Acq: 31 Aug 2018 10:20

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.0	51.5	77.3





#51

4-Methyl-2-Pentanone

Concen: 228.01 ug/l

RT: 9.98 min Scan# 2610

Delta R.T. -0.00 min

Lab File: VN050977.D

Acq: 31 Aug 2018 10:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 1308489

Ion Ratio Lower Upper

43 100

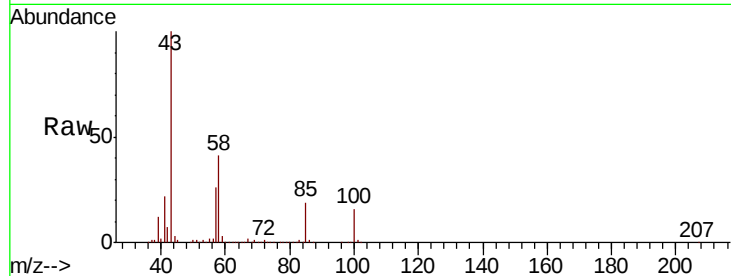
58 40.7 32.4 48.6

Manual Integrations

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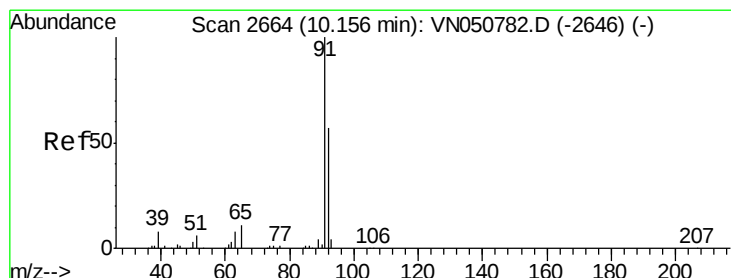
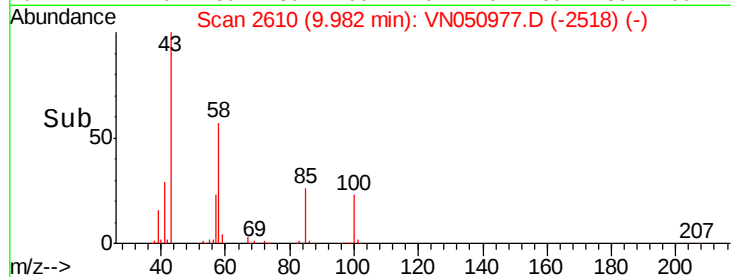
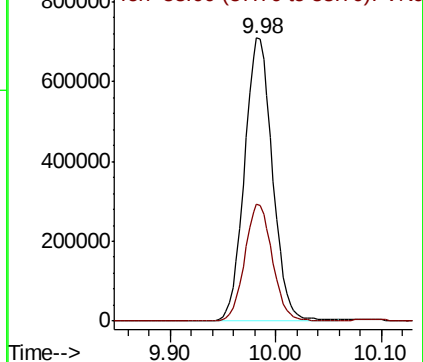
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 52.25 ug/l

RT: 10.16 min Scan# 2664

Delta R.T. -0.00 min

Lab File: VN050977.D

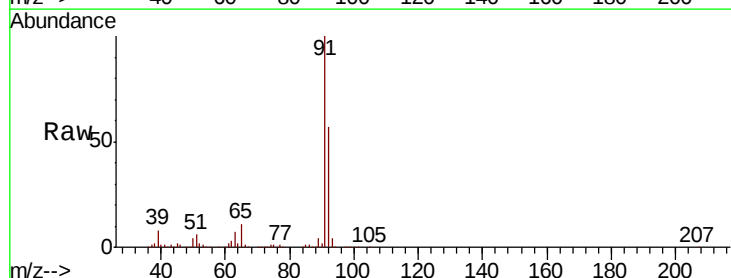
Acq: 31 Aug 2018 10:20

Tgt Ion: 92 Resp: 908791

Ion Ratio Lower Upper

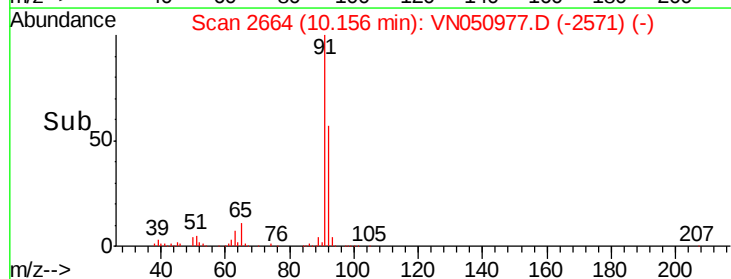
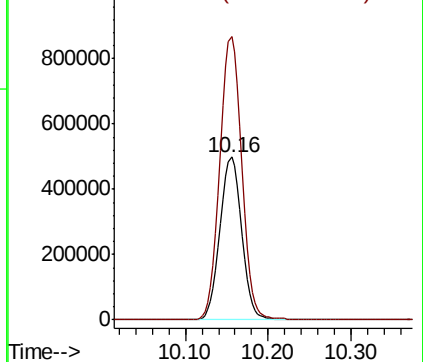
92 100

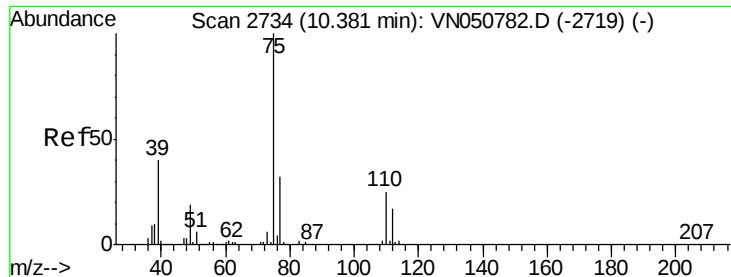
91 175.2 140.6 211.0



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





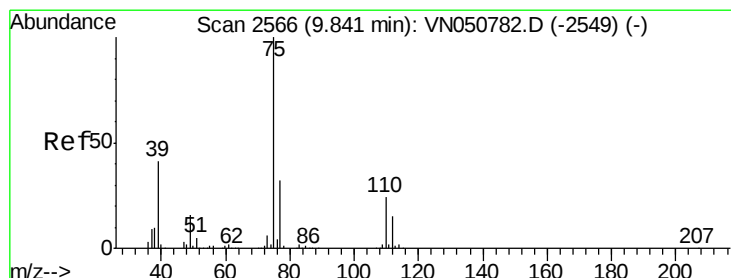
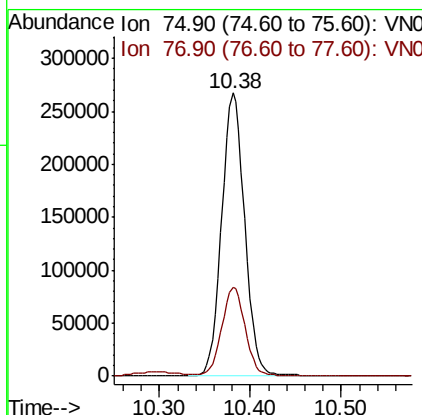
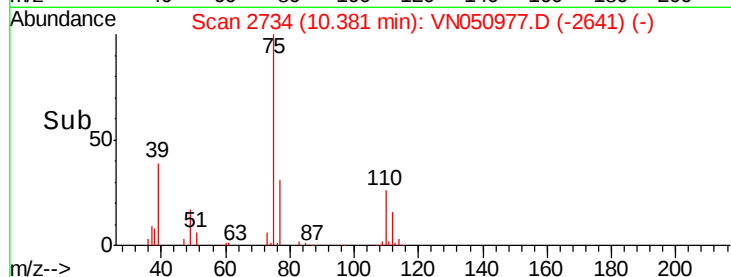
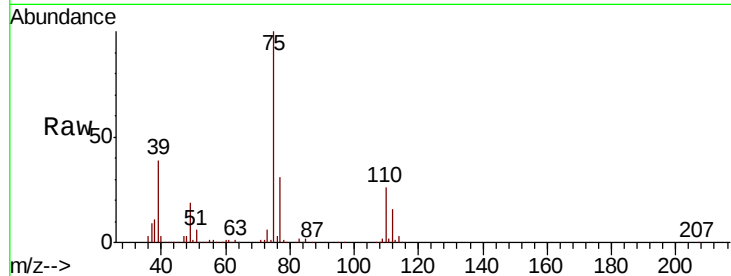
#53
t-1,3-Dichloropropene
Concen: 49.88 ug/l
RT: 10.38 min Scan# 2734
Delta R.T. 0.00 min
Lab File: VN050977.D
Acq: 31 Aug 2018 10:20

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion: 75 Resp: 471468
Ion Ratio Lower Upper
75 100
77 31.3 25.7 38.5

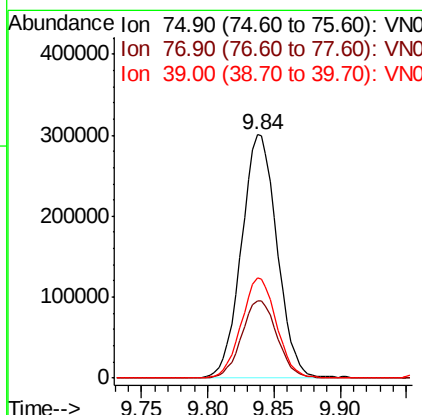
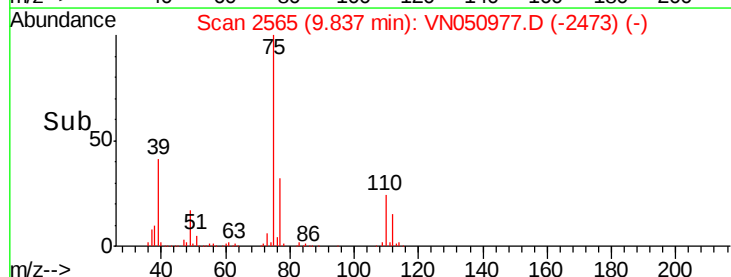
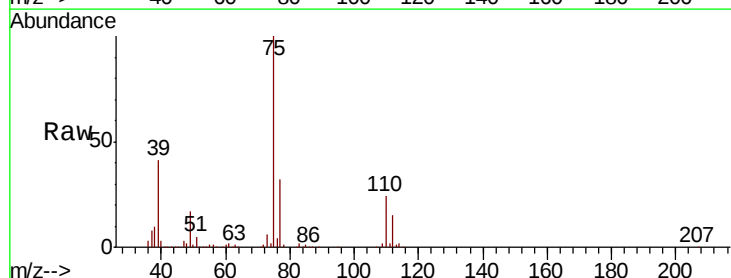
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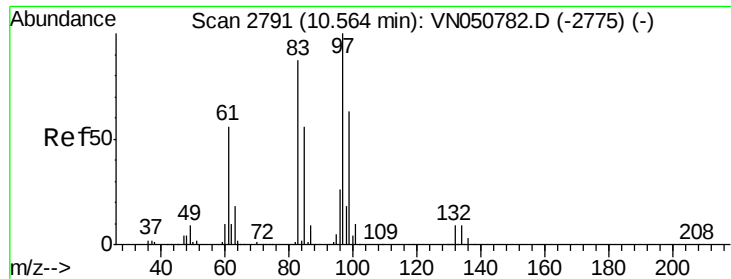
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#54
cis-1,3-Dichloropropene
Concen: 51.59 ug/l
RT: 9.84 min Scan# 2565
Delta R.T. -0.00 min
Lab File: VN050977.D
Acq: 31 Aug 2018 10:20

Tgt Ion: 75 Resp: 558469
Ion Ratio Lower Upper
75 100
77 31.9 25.4 38.2
39 41.3 33.0 49.4





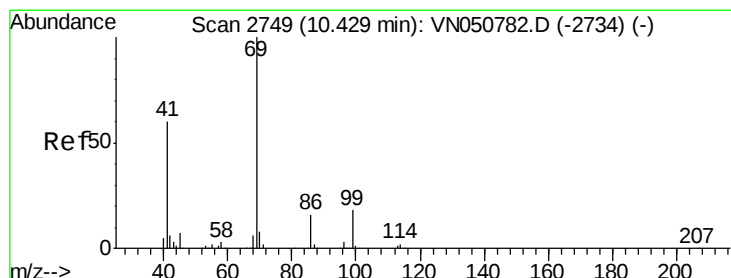
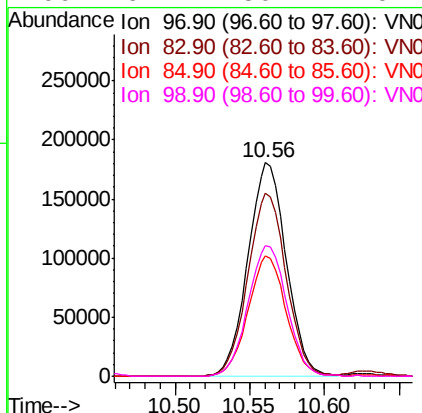
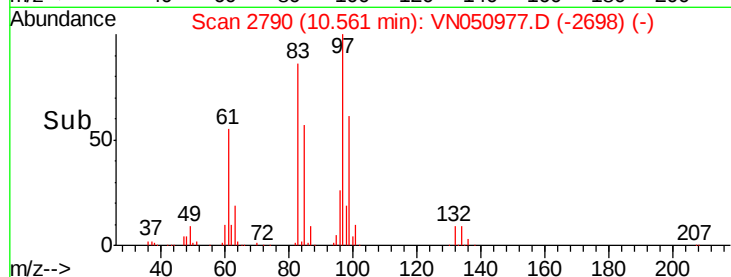
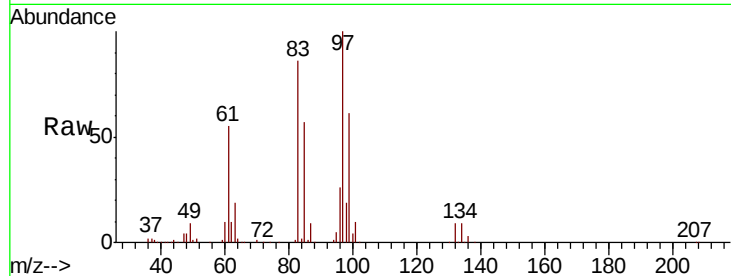
#55
 1,1,2-Trichloroethane
 Concen: 49.90 ug/l
 RT: 10.56 min Scan# 2790
 Delta R.T. -0.00 min
 Lab File: VN050977.D
 Acq: 31 Aug 2018 10:20

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDCCC050

Tot Ion:	97	Resp:	322162
Ion	Ratio	Lower	Upper
97	100		
83	85.6	69.7	104.5
85	56.6	44.5	66.7
99	61.1	50.7	76.1

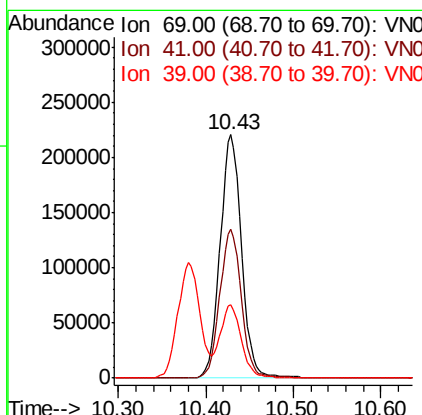
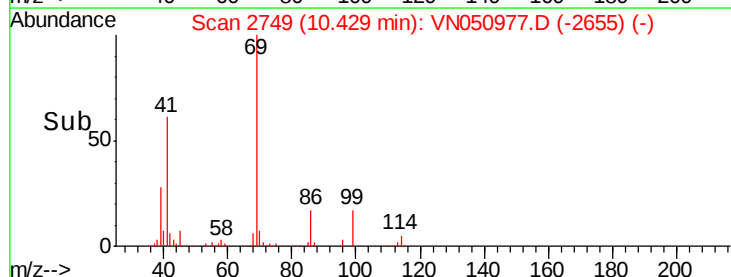
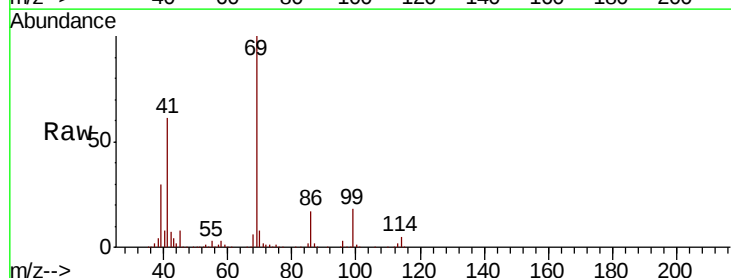
Manual Integrations
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#56
 Ethyl methacrylate
 Concen: 44.72 ug/l
 RT: 10.43 min Scan# 2749
 Delta R.T. 0.00 min
 Lab File: VN050977.D
 Acq: 31 Aug 2018 10:20

Tgt Ion:	69	Resp:	373359
Ion	Ratio	Lower	Upper
69	100		
41	61.6	48.3	72.5
39	29.5	24.0	36.0





#57

1,3-Dichloropropane

Concen: 50.20 ug/l

RT: 10.71 min Scan# 2835

Delta R.T. -0.00 min

Lab File: VN050977.D

Acq: 31 Aug 2018 10:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 76 Resp: 534863

Ion Ratio Lower Upper

76 100

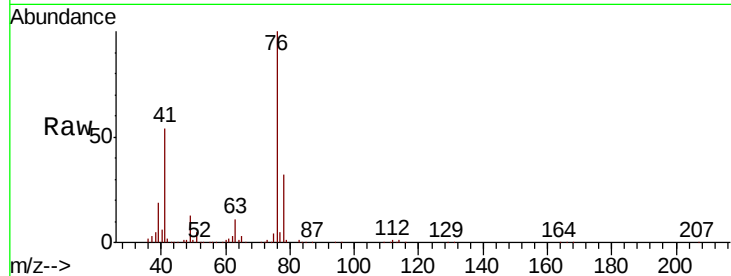
78 31.9 25.5 38.3

Manual Integrations

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Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

10.71

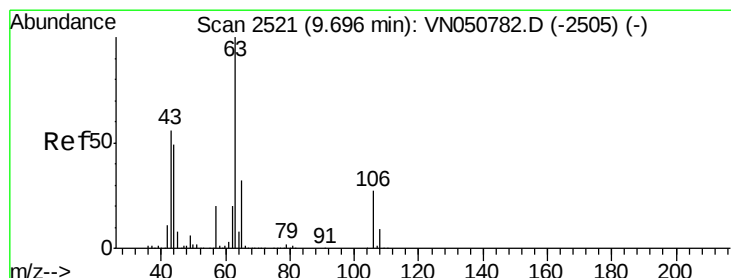
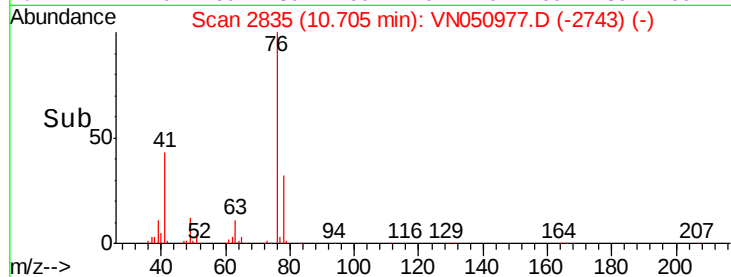
300000

200000

100000

0

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 214.85 ug/l

RT: 9.69 min Scan# 2520

Delta R.T. -0.00 min

Lab File: VN050977.D

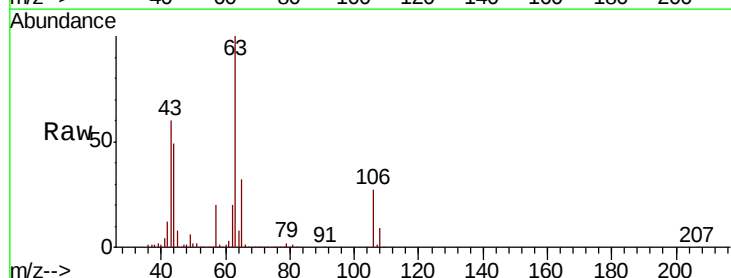
Acq: 31 Aug 2018 10:20

Tgt Ion: 63 Resp: 780696

Ion Ratio Lower Upper

63 100

106 27.6 21.9 32.9



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V

9.69

500000

400000

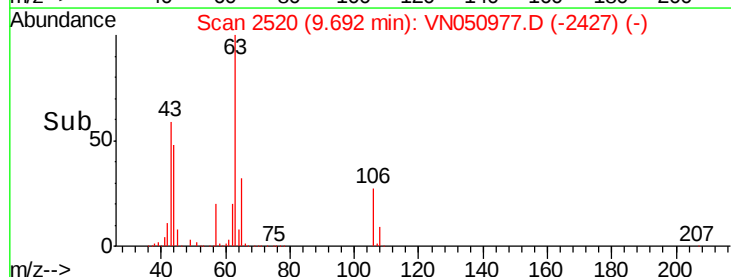
300000

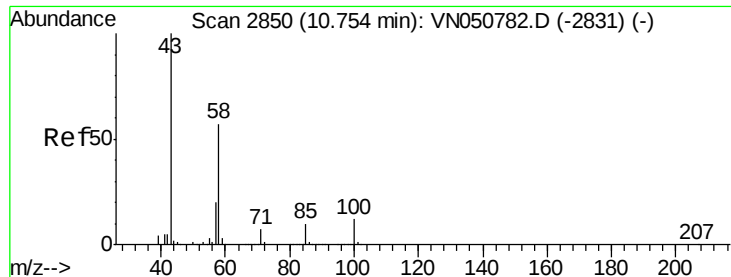
200000

100000

0

Time-->





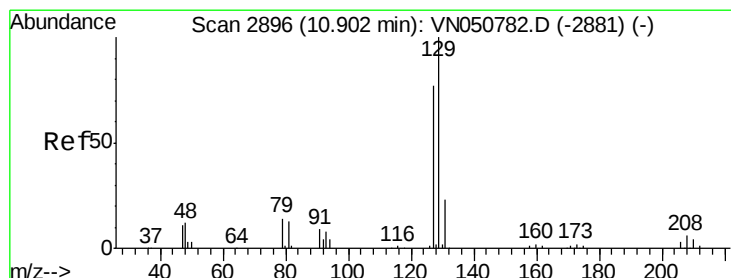
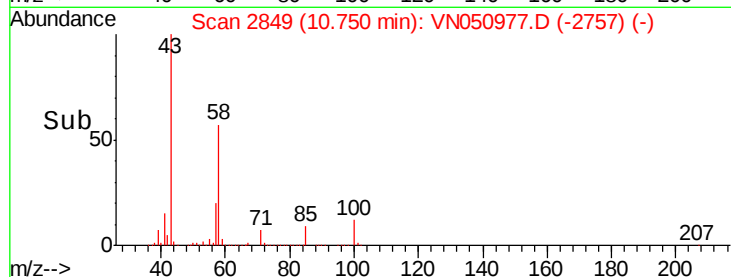
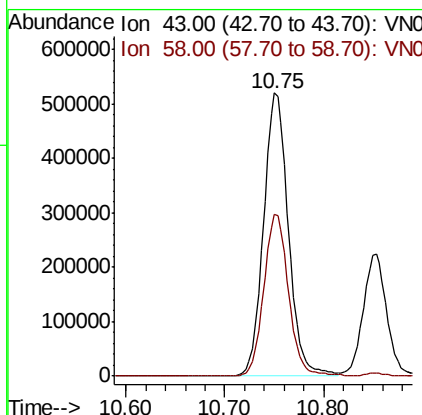
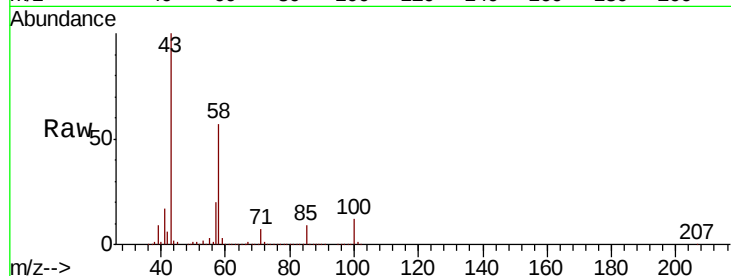
#59
2-Hexanone
Concen: 235.25 ug/l
RT: 10.75 min Scan# 2849
Delta R.T. -0.00 min
Lab File: VN050977.D
Acq: 31 Aug 2018 10:20

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 898742
Ion Ratio Lower Upper
43 100
58 57.1 28.3 85.0

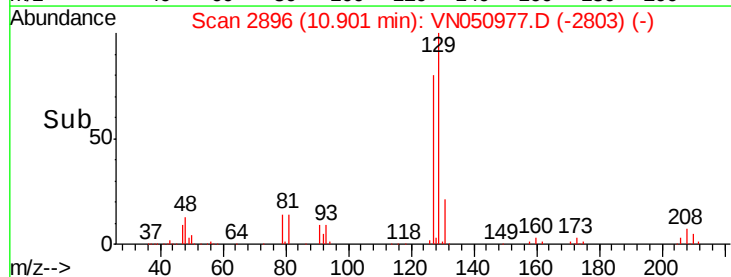
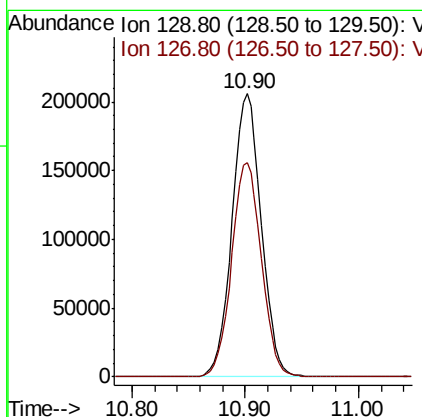
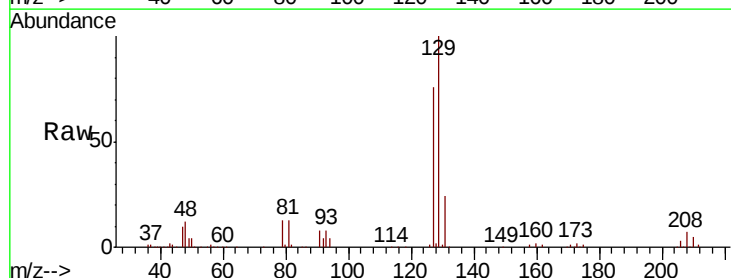
Manual Integrations
APPROVED

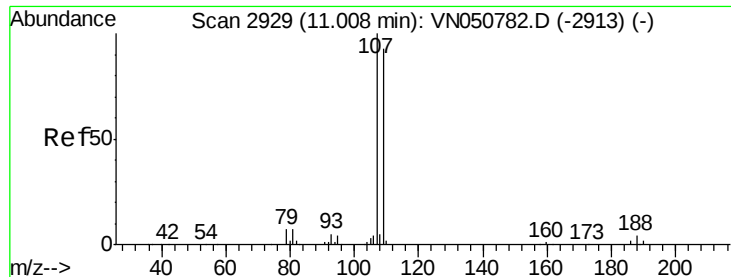
MMDadoda
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#60
Dibromochloromethane
Concen: 51.16 ug/l
RT: 10.90 min Scan# 2896
Delta R.T. -0.00 min
Lab File: VN050977.D
Acq: 31 Aug 2018 10:20

Tgt Ion: 129 Resp: 369789
Ion Ratio Lower Upper
129 100
127 77.2 38.3 114.9





#61

1,2-Dibromoethane

Concen: 49.72 ug/l

RT: 11.00 min Scan# 2928

Delta R.T. -0.00 min

Lab File: VN050977.D

Acq: 31 Aug 2018 10:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 107 Resp: 310384

Ion Ratio Lower Upper

107 100

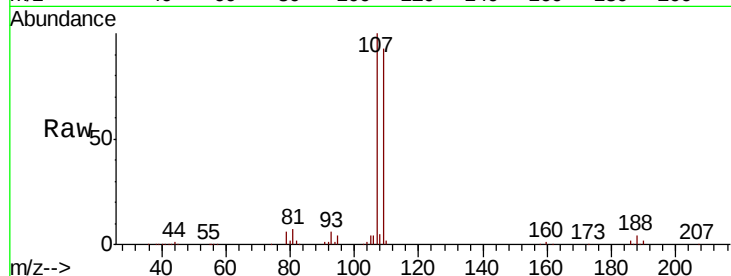
109 94.1 75.4 113.2

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Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

200000

150000

100000

50000

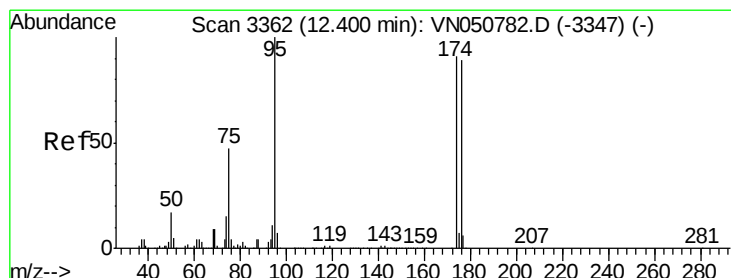
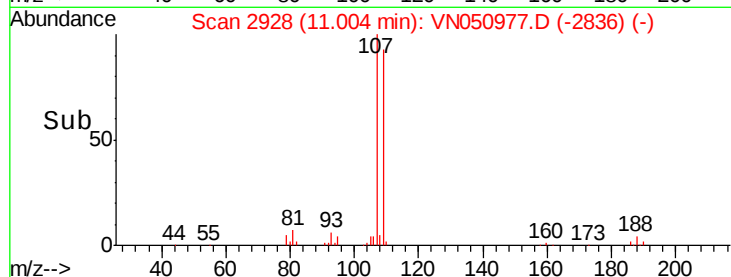
0

11.00

10.90

11.10

Time-->



#62

4-Bromofluorobenzene

Concen: 51.89 ug/l

RT: 12.40 min Scan# 3362

Delta R.T. -0.00 min

Lab File: VN050977.D

Acq: 31 Aug 2018 10:20

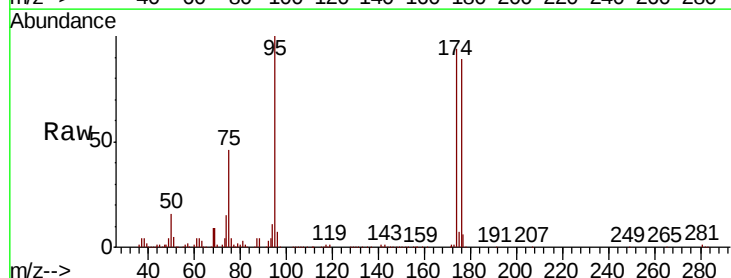
Tgt Ion: 95 Resp: 423148

Ion Ratio Lower Upper

95 100

174 92.2 0.0 183.0

176 89.5 0.0 178.8



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

300000

200000

100000

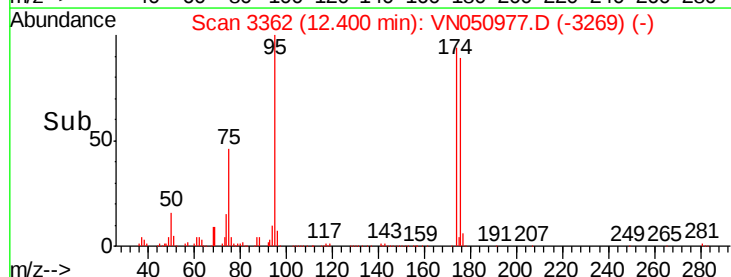
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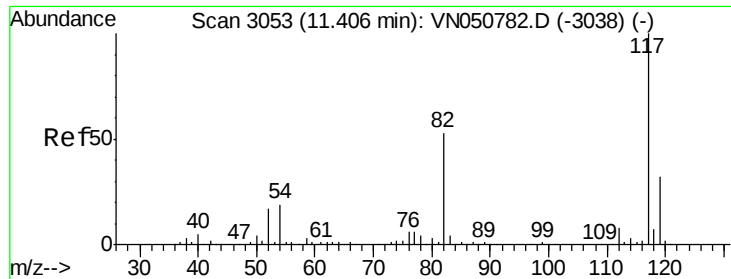
12.40

12.35

12.45

Time-->





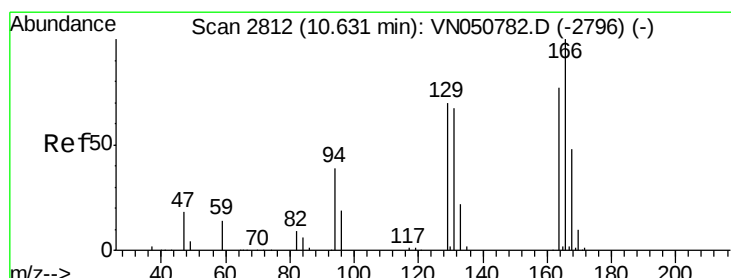
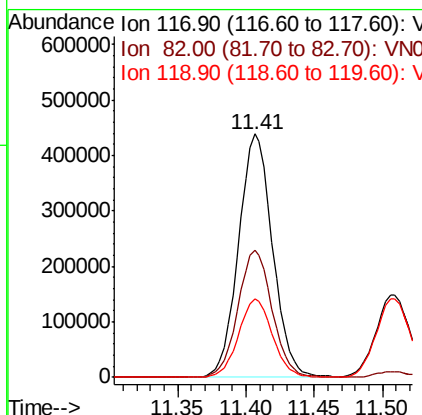
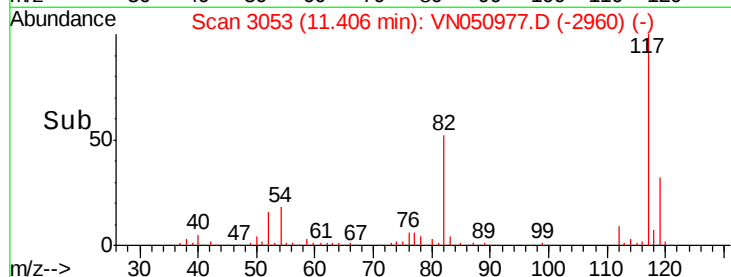
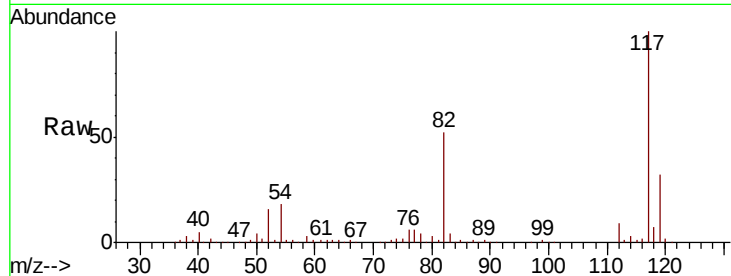
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3053
Delta R.T. -0.00 min
Lab File: VN050977.D
Acq: 31 Aug 2018 10:20

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.1	42.6	64.0
119	32.0	25.8	38.6

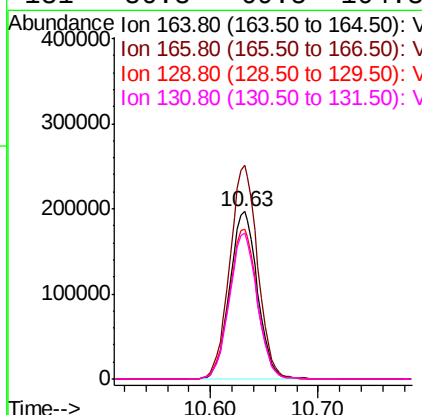
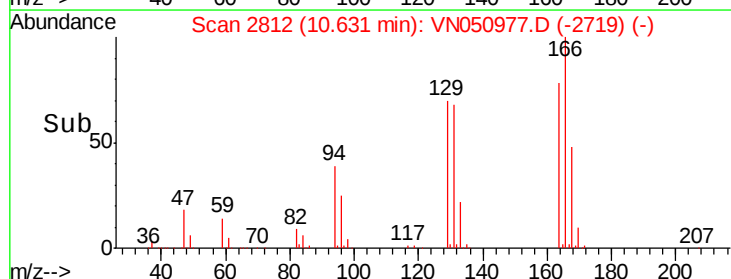
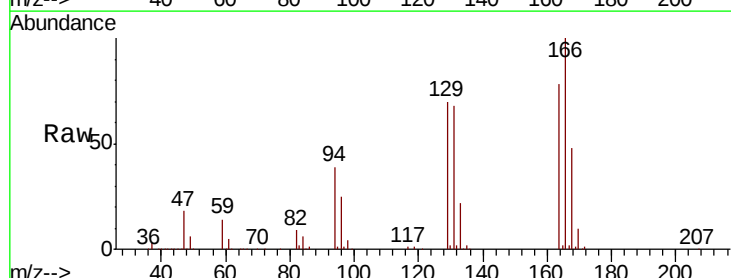
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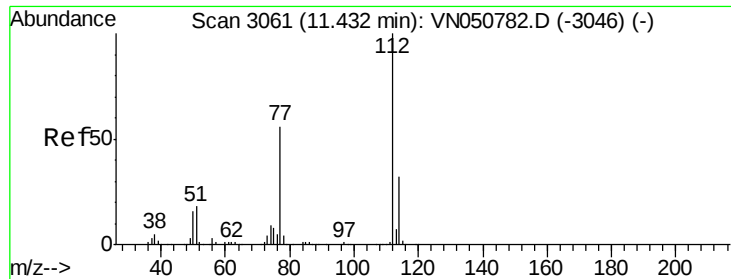
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#64
Tetrachloroethene
Concen: 48.90 ug/l
RT: 10.63 min Scan# 2812
Delta R.T. -0.00 min
Lab File: VN050977.D
Acq: 31 Aug 2018 10:20

Tgt Ion	Ratio	Lower	Upper
164	100		
166	127.8	103.5	155.3
129	89.9	72.7	109.1
131	86.8	69.5	104.3





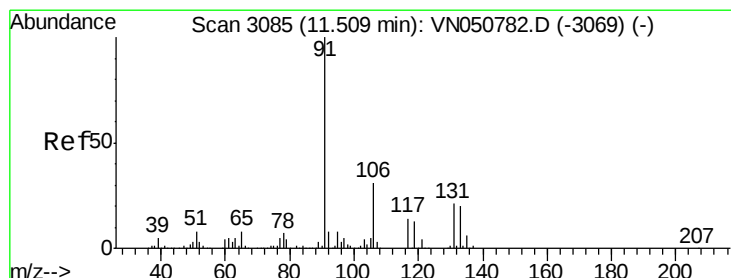
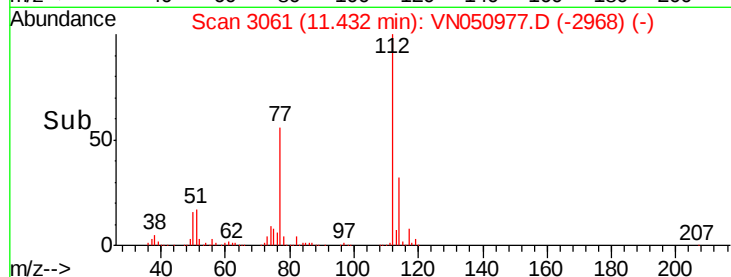
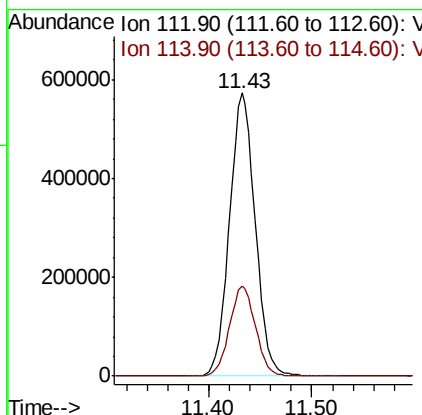
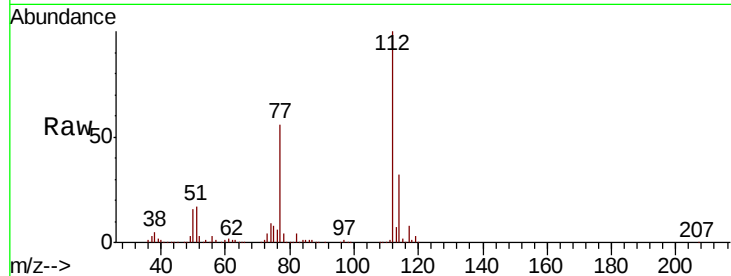
#65
Chlorobenzene
Concen: 50.20 ug/l
RT: 11.43 min Scan# 3061
Delta R.T. -0.00 min
Lab File: VN050977.D
Acq: 31 Aug 2018 10:20

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
112	100		
114	31.9	25.6	38.4

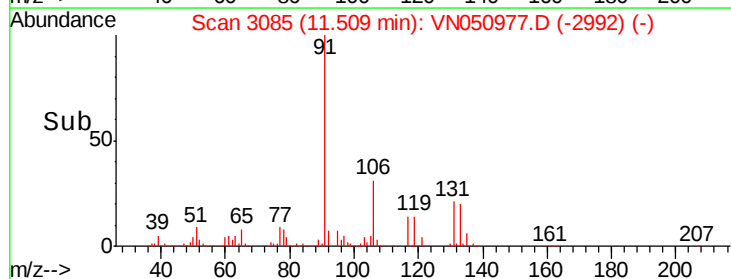
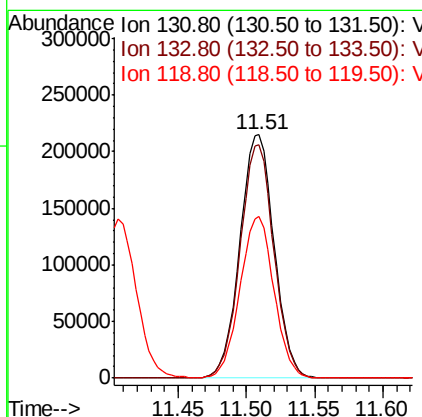
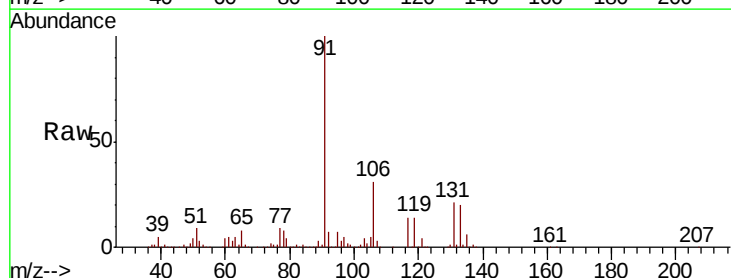
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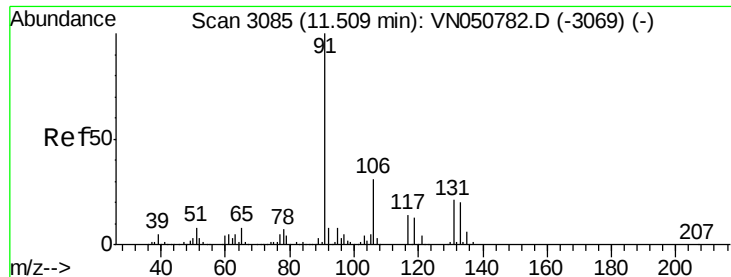
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#66
1,1,1,2-Tetrachloroethane
Concen: 51.53 ug/l
RT: 11.51 min Scan# 3085
Delta R.T. -0.00 min
Lab File: VN050977.D
Acq: 31 Aug 2018 10:20

Tgt Ion	Ratio	Lower	Upper
131	100		
133	95.0	47.4	142.3
119	66.1	32.8	98.4





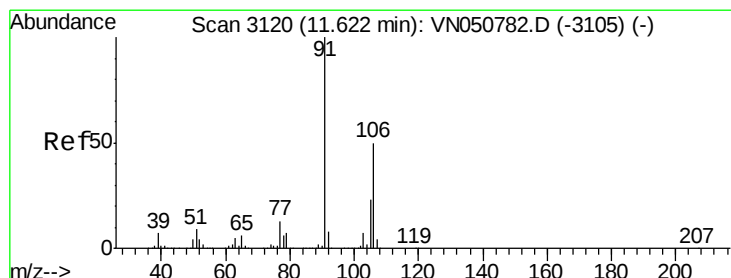
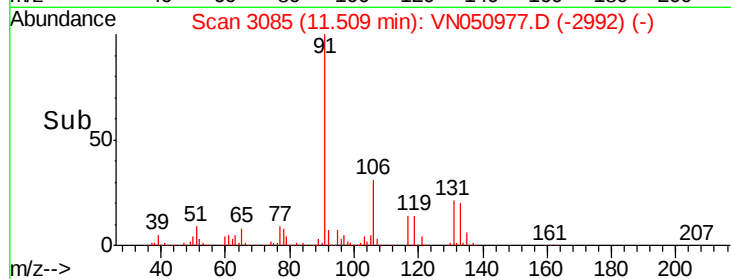
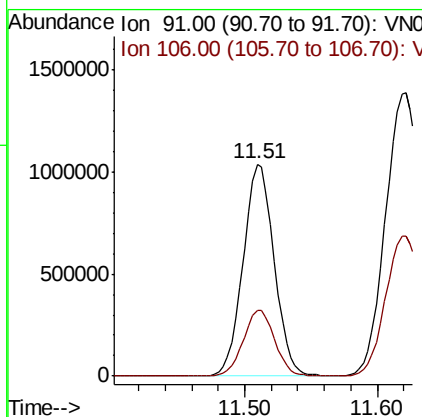
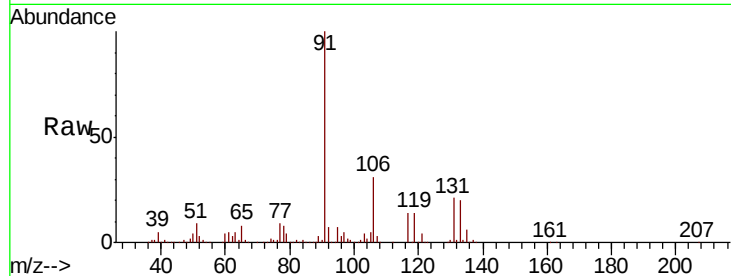
#67
Ethyl Benzene
Concen: 52.36 ug/l
RT: 11.51 min Scan# 3085
Delta R.T. 0.00 min
Lab File: VN050977.D
Acq: 31 Aug 2018 10:20

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 1687806
Ion Ratio Lower Upper
91 100
106 31.3 25.0 37.4

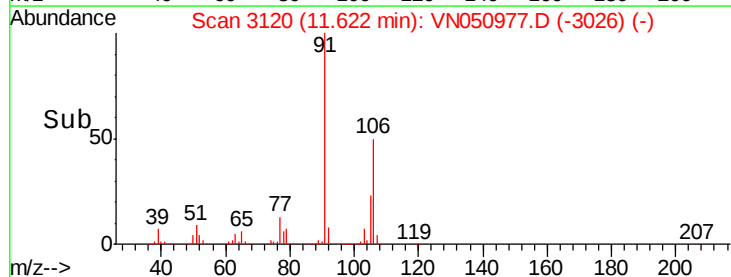
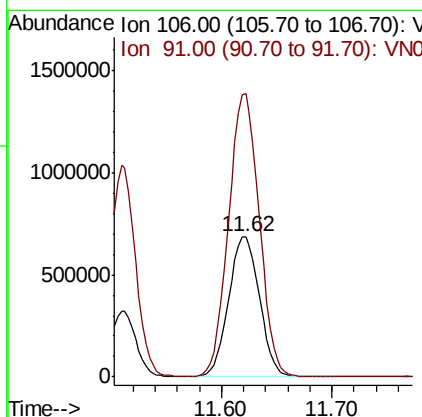
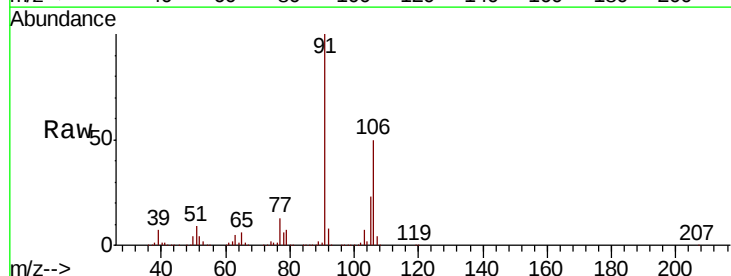
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#68
m/p-Xylenes
Concen: 108.73 ug/l
RT: 11.62 min Scan# 3120
Delta R.T. 0.00 min
Lab File: VN050977.D
Acq: 31 Aug 2018 10:20

Tgt Ion: 106 Resp: 1330337
Ion Ratio Lower Upper
106 100
91 201.0 161.0 241.6





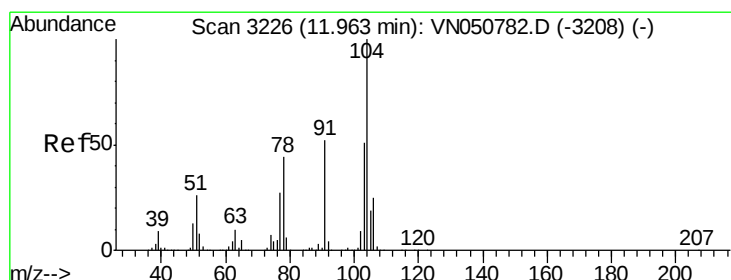
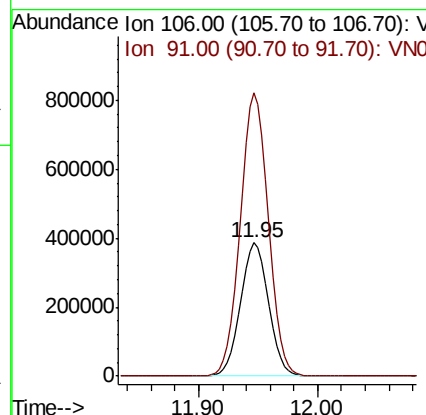
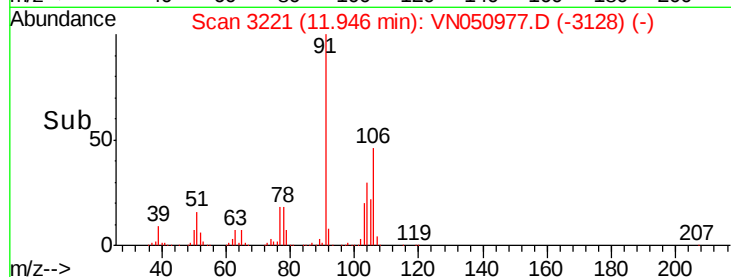
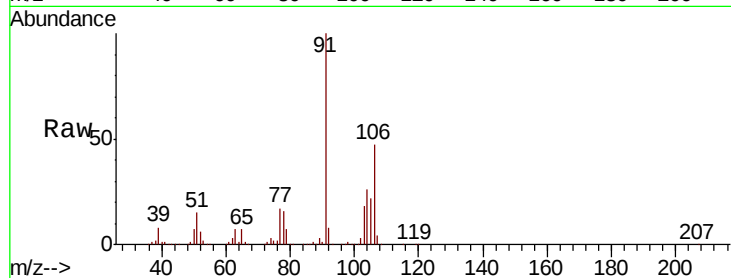
#69
o-Xylene
Concen: 53.67 ug/l
RT: 11.95 min Scan# 3221
Delta R.T. 0.00 min
Lab File: VN050977.D
Acq: 31 Aug 2018 10:20

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion:106 Resp: 631242
Ion Ratio Lower Upper
106 100
91 212.4 106.5 319.5

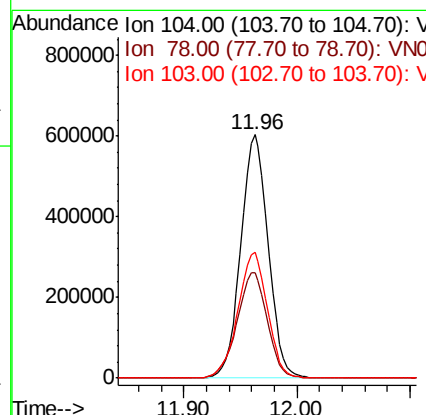
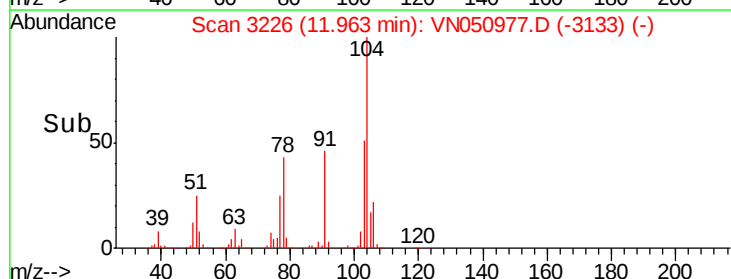
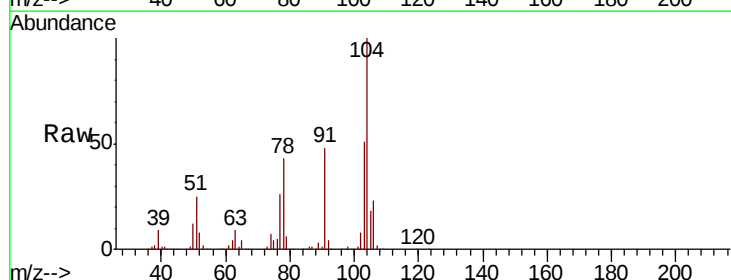
Manual Integrations
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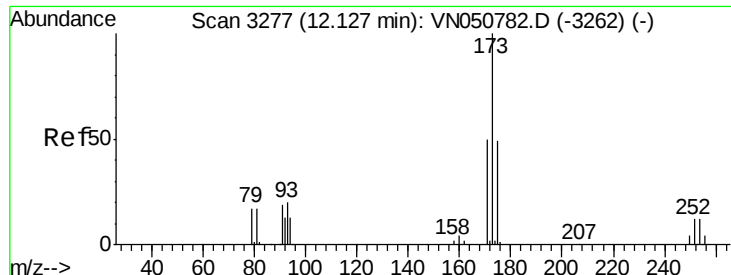
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#70
Styrene
Concen: 49.18 ug/l
RT: 11.96 min Scan# 3226
Delta R.T. 0.00 min
Lab File: VN050977.D
Acq: 31 Aug 2018 10:20

Tgt Ion:104 Resp: 1018963
Ion Ratio Lower Upper
104 100
78 47.8 38.2 57.4
103 55.7 44.4 66.6





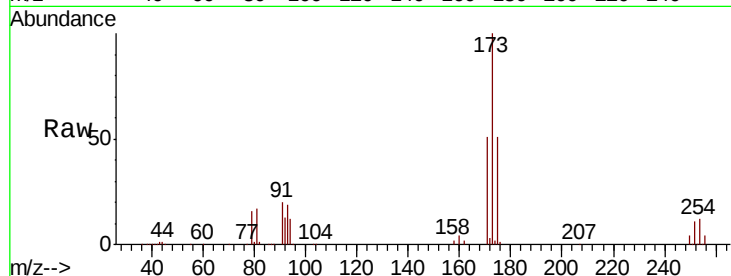
#71
Bromoform
Concen: 51.43 ug/l
RT: 12.13 min Scan# 3277
Delta R.T. -0.00 min
Lab File: VN050977.D
Acq: 31 Aug 2018 10:20

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

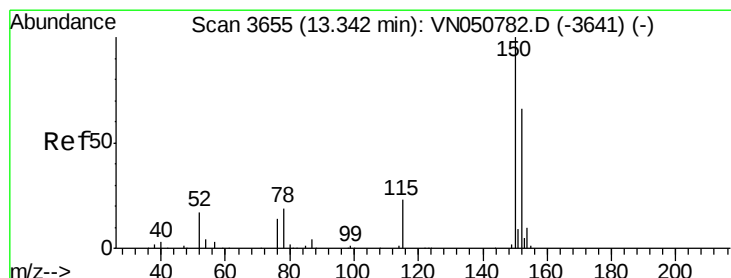
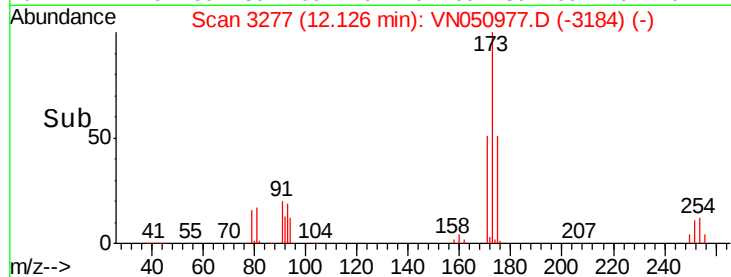
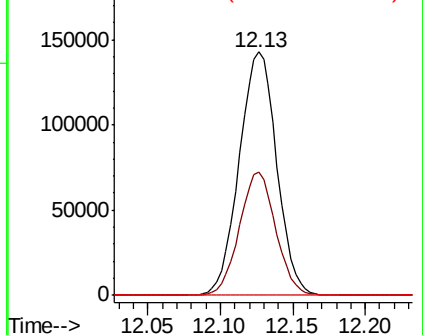
Tot Ion	Ratio	Resp	Lower	Upper
173	100	256585		
175	49.0		24.4	73.4
254	0.2		0.1	0.1#

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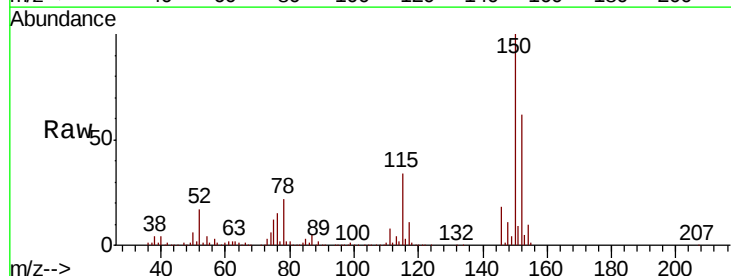


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

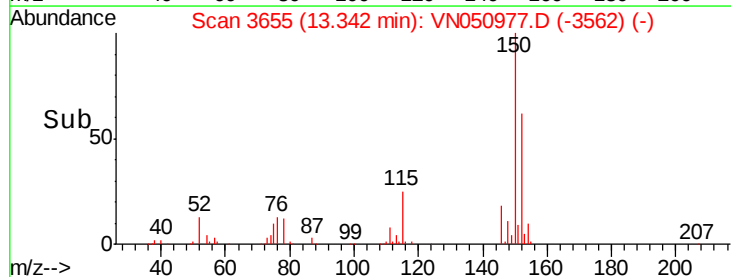
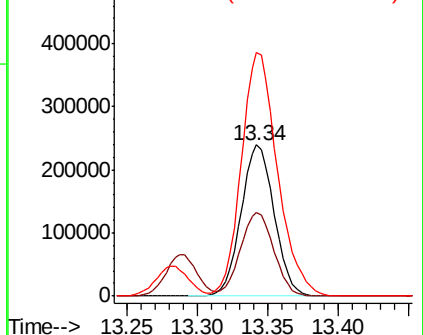


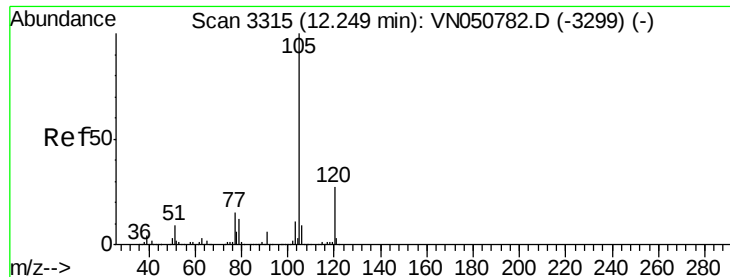
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.34 min Scan# 3655
Delta R.T. -0.00 min
Lab File: VN050977.D
Acq: 31 Aug 2018 10:20

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	394176		
115	55.4		27.8	83.4
150	175.7		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: 51.68 ug/l

RT: 12.25 min Scan# 3315

Delta R.T. -0.00 min

Lab File: VN050977.D

Acq: 31 Aug 2018 10:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 1686716

Ion Ratio Lower Upper

105 100

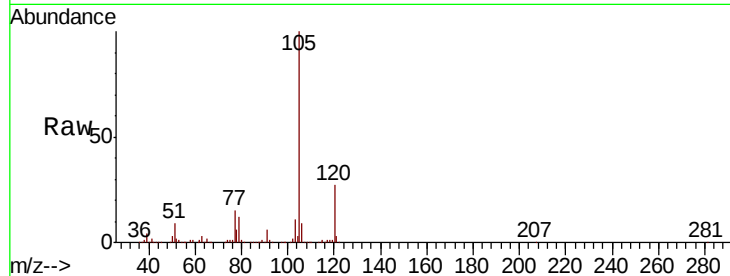
120 27.2 13.5 40.4

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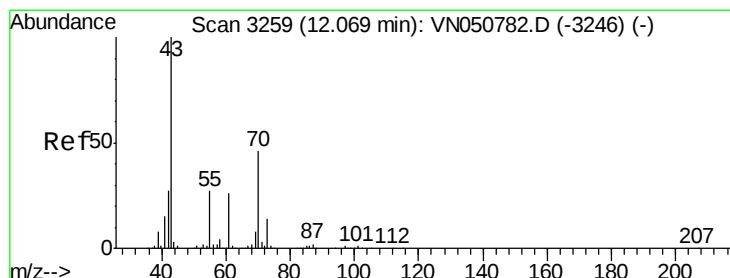
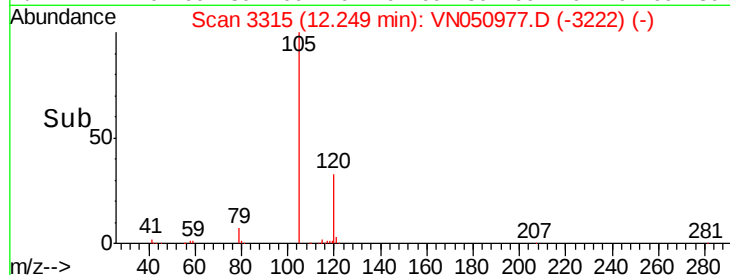
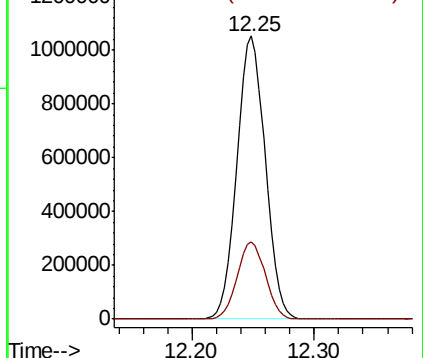
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 45.45 ug/l

RT: 12.07 min Scan# 3259

Delta R.T. -0.00 min

Lab File: VN050977.D

Acq: 31 Aug 2018 10:20

Tgt Ion: 43 Resp: 372753

Ion Ratio Lower Upper

43 100

70 45.4 36.2 54.2

55 27.3 21.8 32.8

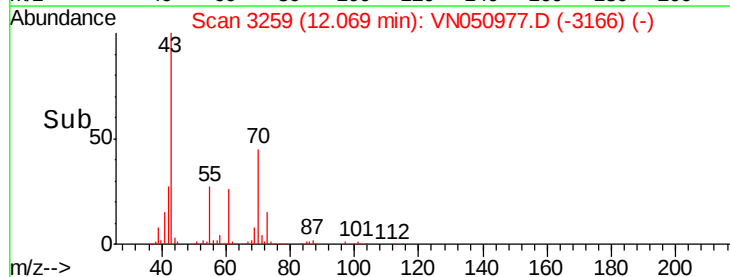
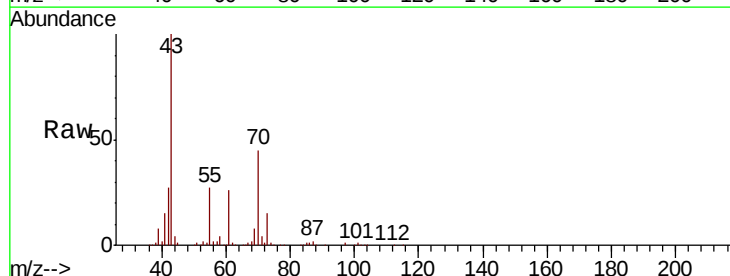
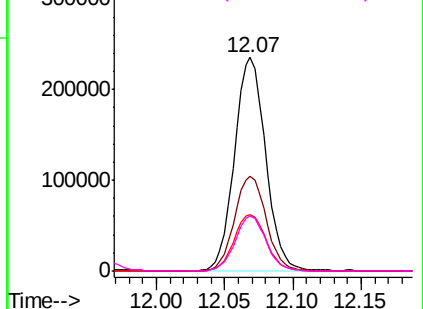
61 25.5 20.5 30.7

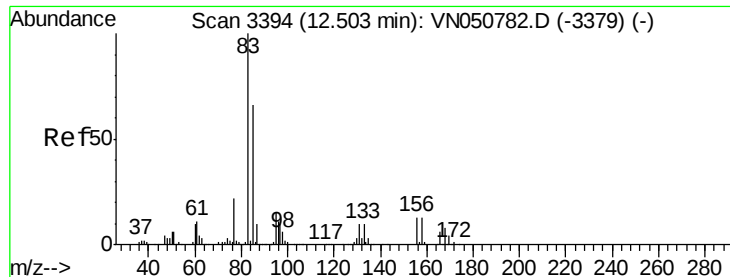
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: 49.78 ug/l

RT: 12.50 min Scan# 3394

Delta R.T. 0.00 min

Lab File: VN050977.D

Acq: 31 Aug 2018 10:20

Instrument :

MSVOA_N

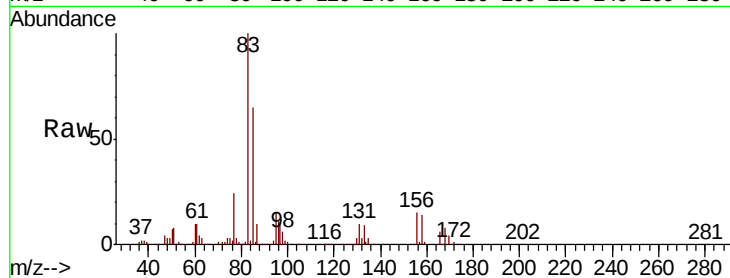
ClientSampleId :

VSTDCCC050

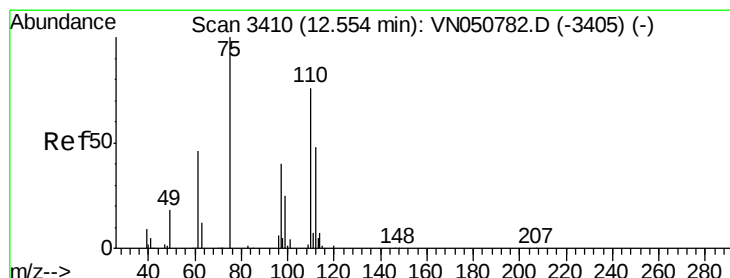
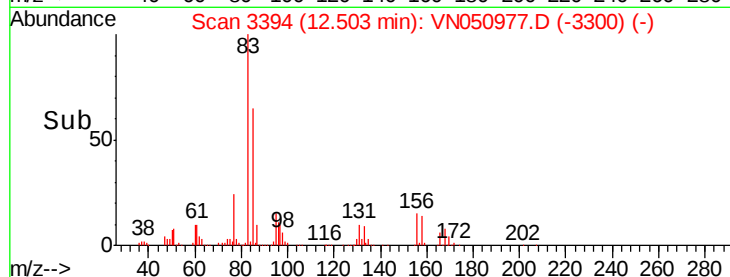
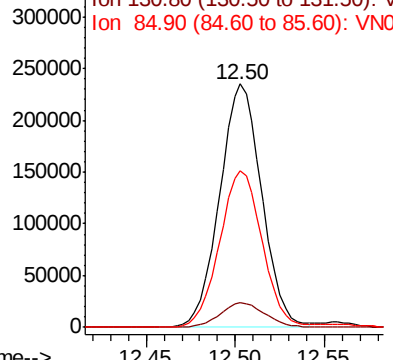
Tot Ion:	83	Resp:	387442
Ion Ratio	Lower	Upper	
83	100		
131	10.8	5.3	15.9
85	64.9	31.9	95.7

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Abundance Ion 82.90 (82.60 to 83.60): VN050977.D (-3300) (-)



#76

1,2,3-Trichloropropane

Concen: 48.31 ug/l m

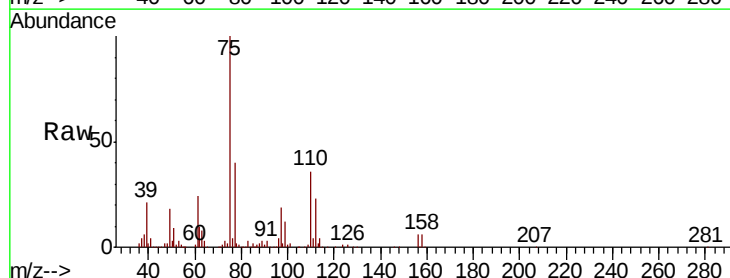
RT: 12.55 min Scan# 3410

Delta R.T. -0.00 min

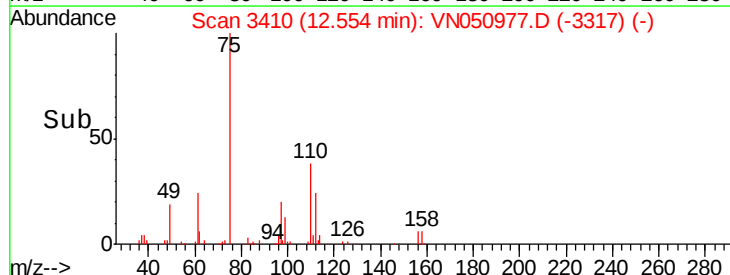
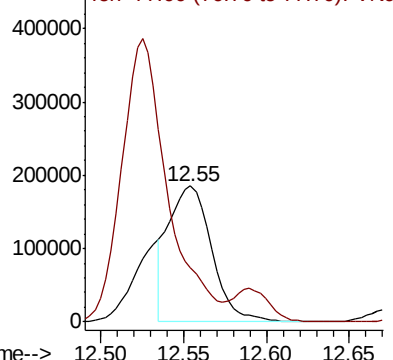
Lab File: VN050977.D

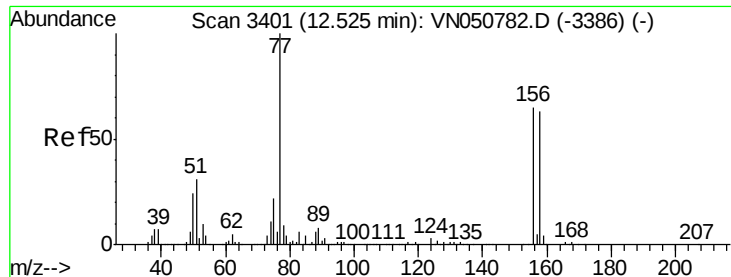
Acq: 31 Aug 2018 10:20

Tgt Ion:	75	Resp:	333546
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0



Abundance Ion 74.90 (74.60 to 75.60): VN050977.D (-3317) (-)





#77

Bromobenzene

Concen: 48.47 ug/l

RT: 12.53 min Scan# 3401

Delta R.T. -0.00 min

Lab File: VN050977.D

Acq: 31 Aug 2018 10:20

Instrument :

MSVOA_N

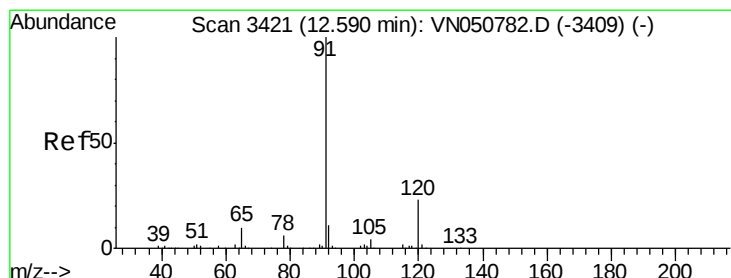
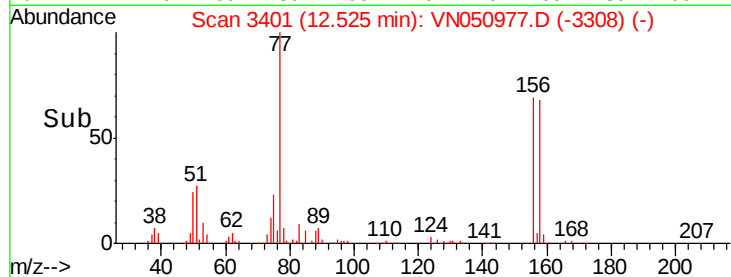
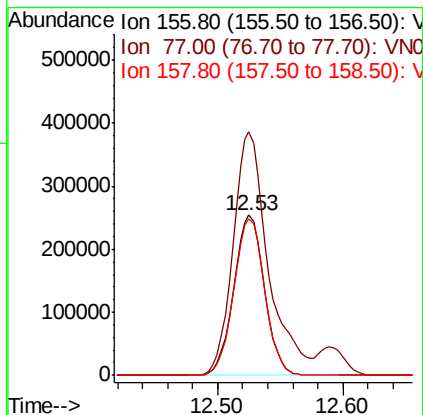
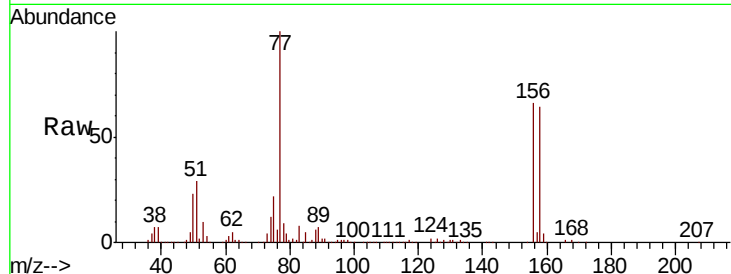
ClientSampled :

VSTDCCC050

Tot Ion:	156	Resp:	429961
Ion Ratio	Lower	Upper	
156	100		
77	174.0	89.9	269.7
158	98.3	49.3	147.9

Manual Integrations
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#78

n-propylbenzene

Concen: 53.25 ug/l

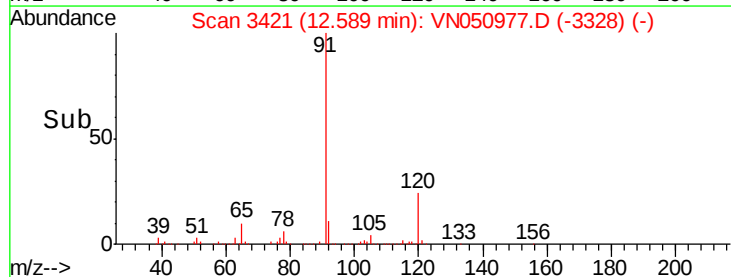
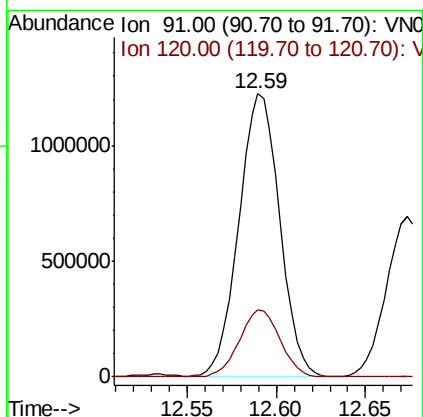
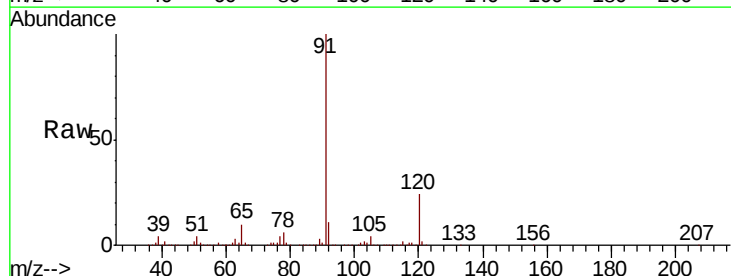
RT: 12.59 min Scan# 3421

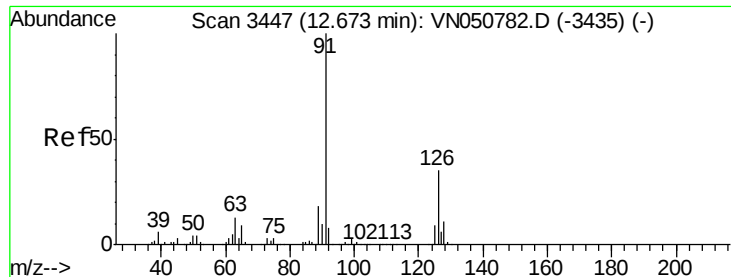
Delta R.T. -0.00 min

Lab File: VN050977.D

Acq: 31 Aug 2018 10:20

Tgt Ion:	91	Resp:	1941692
Ion Ratio	Lower	Upper	
91	100		
120	23.6	11.7	35.0





#79

2-Chlorotoluene

Concen: 50.07 ug/l

RT: 12.67 min Scan# 3447

Delta R.T. -0.00 min

Lab File: VN050977.D

Acq: 31 Aug 2018 10:20

Instrument :

MSVOA_N

ClientSampled :

VSTDCCC050

Tot Ion: 91 Resp: 1137044

Ion Ratio Lower Upper

91 100

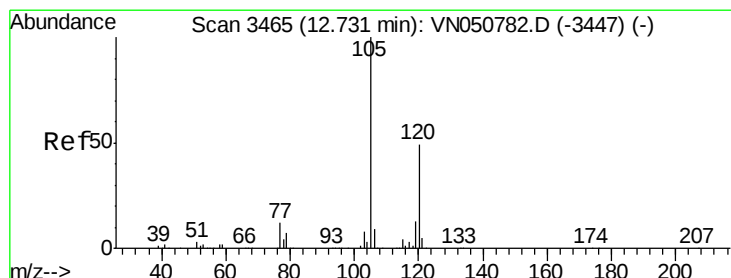
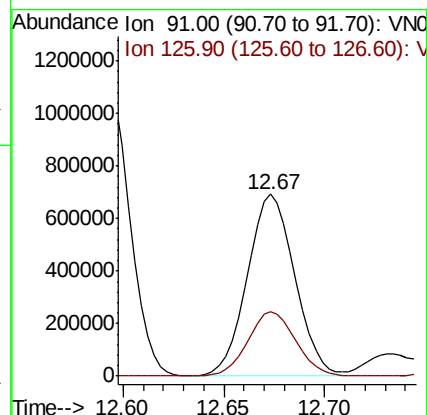
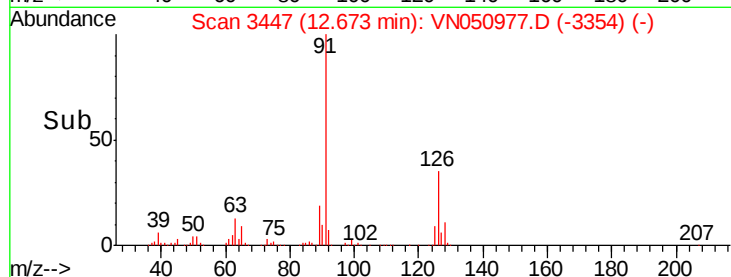
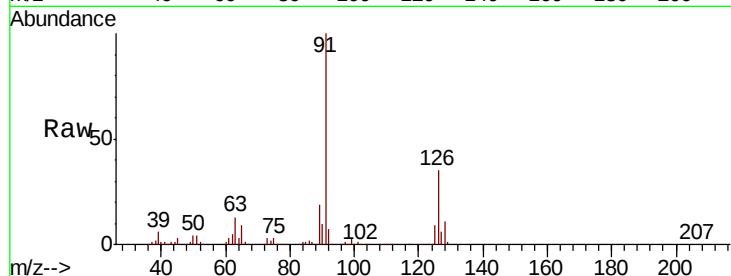
126 35.9 17.8 53.3

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 53.31 ug/l

RT: 12.73 min Scan# 3465

Delta R.T. -0.00 min

Lab File: VN050977.D

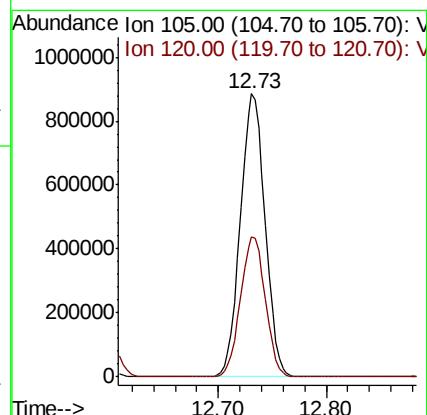
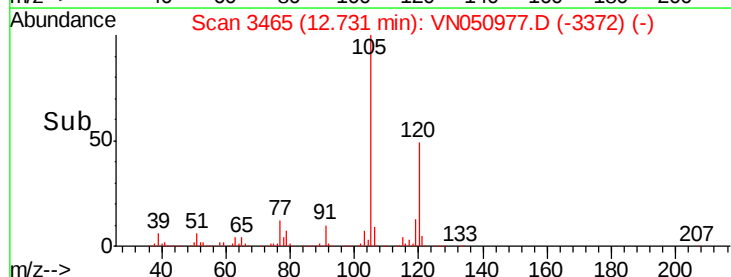
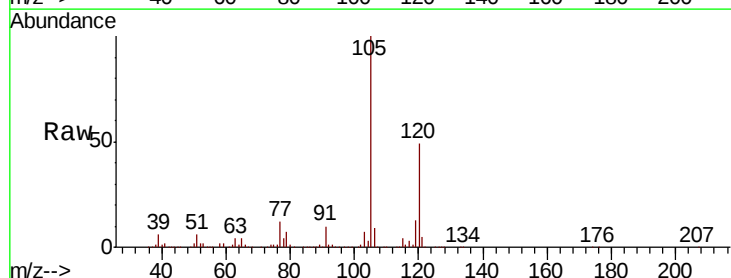
Acq: 31 Aug 2018 10:20

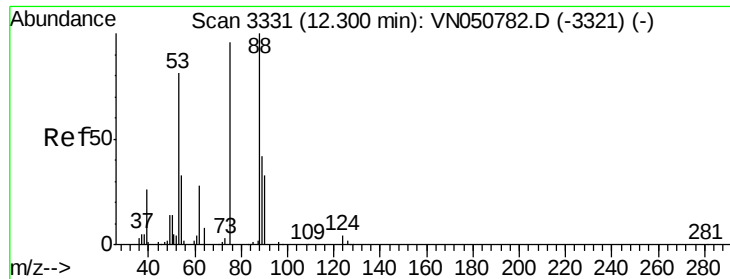
Tgt Ion: 105 Resp: 1403914

Ion Ratio Lower Upper

105 100

120 49.6 24.6 74.0





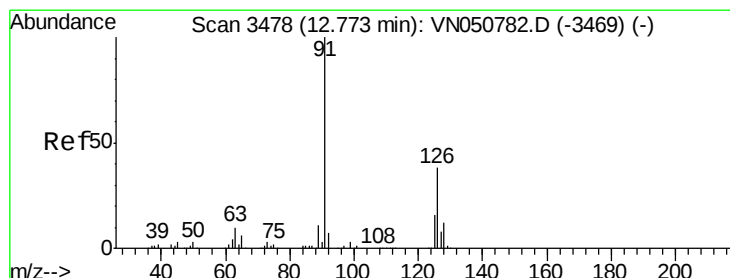
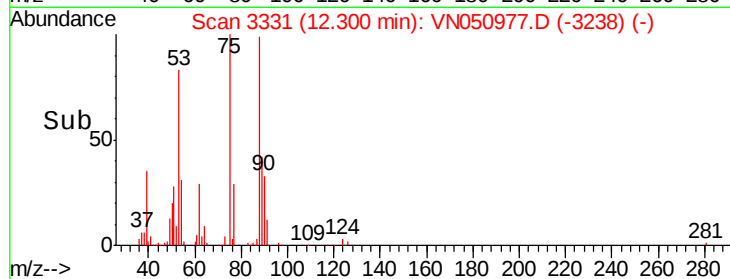
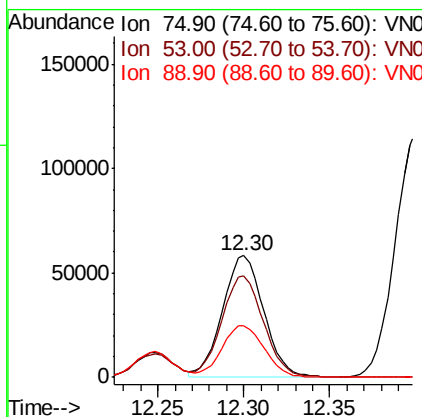
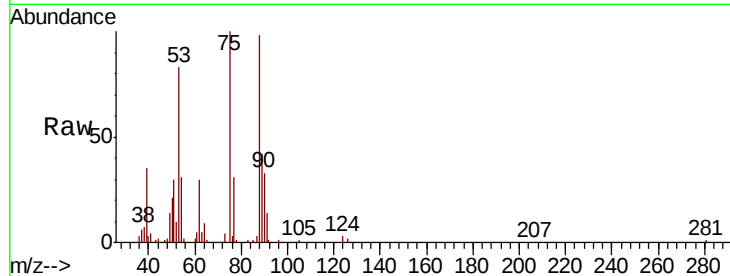
#81
trans-1,4-Dichloro-2-butene
Concen: 47.24 ug/l
RT: 12.30 min Scan# 3331
Delta R.T. 0.00 min
Lab File: VN050977.D
Acq: 31 Aug 2018 10:20

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
75	100		
53	86.0	68.9	103.3
89	43.9	36.1	54.1

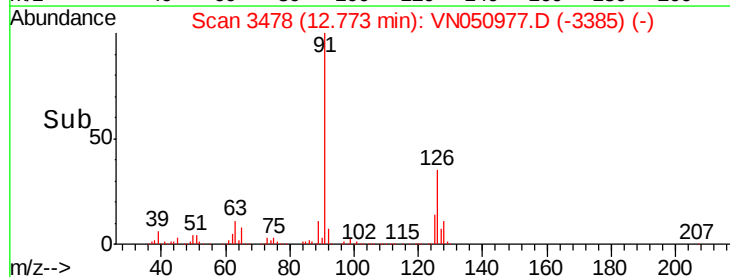
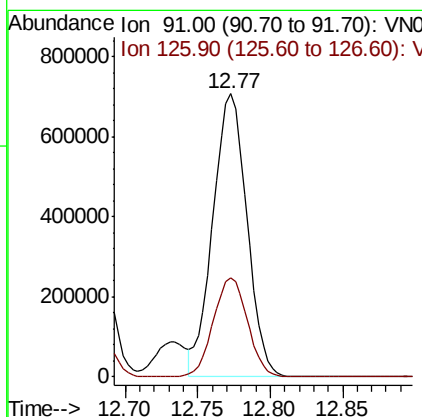
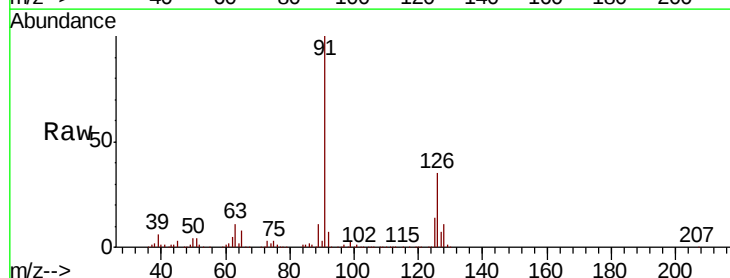
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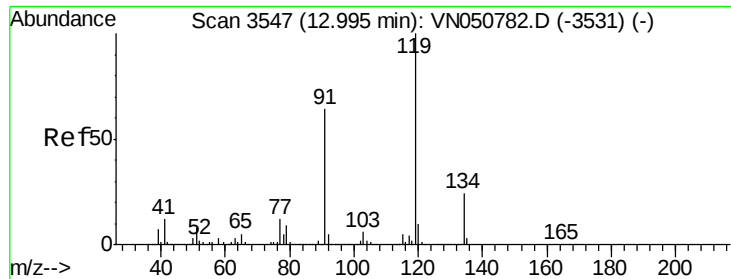
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#82
4-Chlorotoluene
Concen: 51.37 ug/l
RT: 12.77 min Scan# 3478
Delta R.T. -0.00 min
Lab File: VN050977.D
Acq: 31 Aug 2018 10:20

Tgt Ion	Ratio	Lower	Upper
91	100		
126	35.1	17.5	52.5





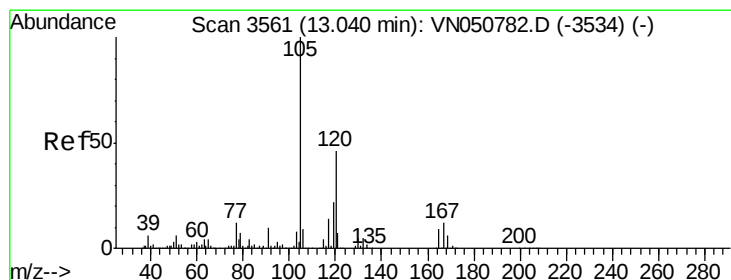
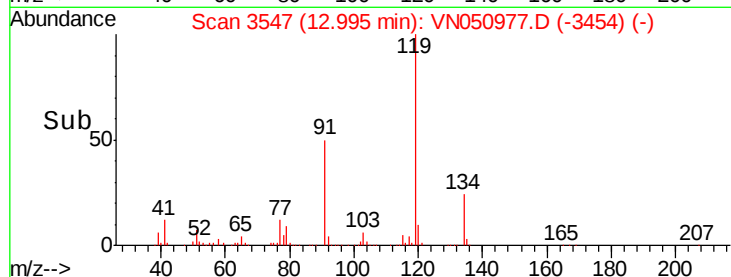
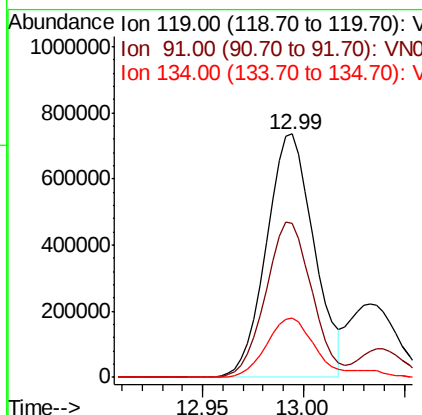
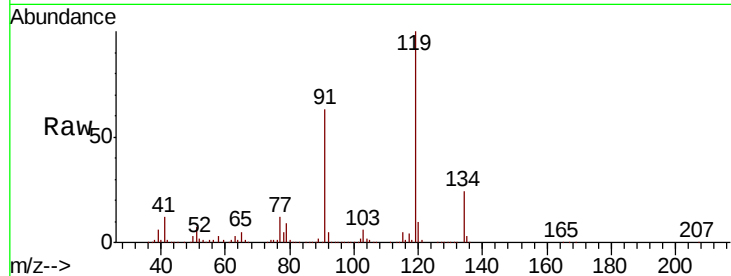
#83
 tert-Butylbenzene
 Concen: 52.72 ug/l
 RT: 12.99 min Scan# 3547
 Delta R.T. -0.00 min
 Lab File: VN050977.D
 Acq: 31 Aug 2018 10:20

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion:119 Resp: 1202418
 Ion Ratio Lower Upper
 119 100
 91 62.2 31.6 94.7
 134 24.6 13.4 40.1

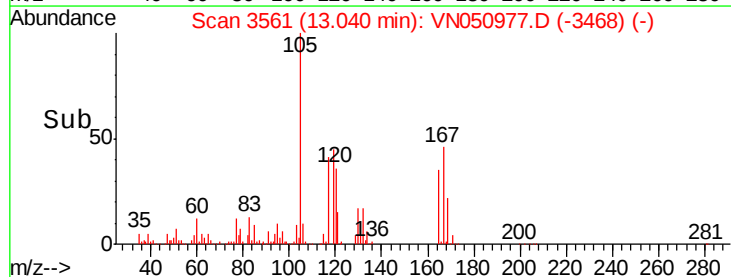
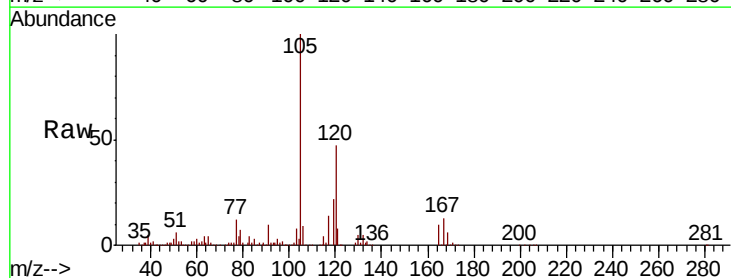
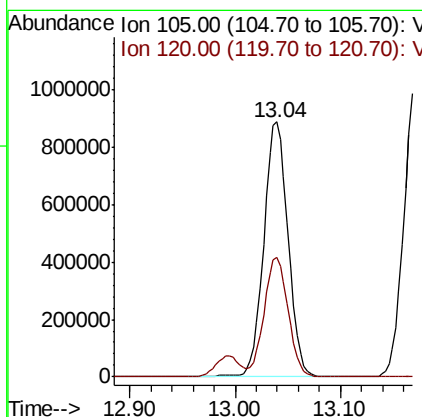
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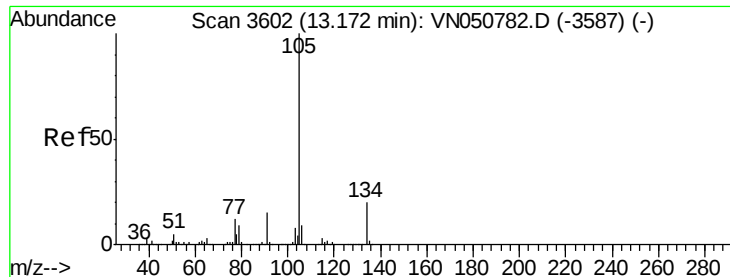
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#84
 1,2,4-Trimethylbenzene
 Concen: 53.65 ug/l
 RT: 13.04 min Scan# 3561
 Delta R.T. 0.00 min
 Lab File: VN050977.D
 Acq: 31 Aug 2018 10:20

Tgt Ion:105 Resp: 1421313
 Ion Ratio Lower Upper
 105 100
 120 46.5 22.9 68.8





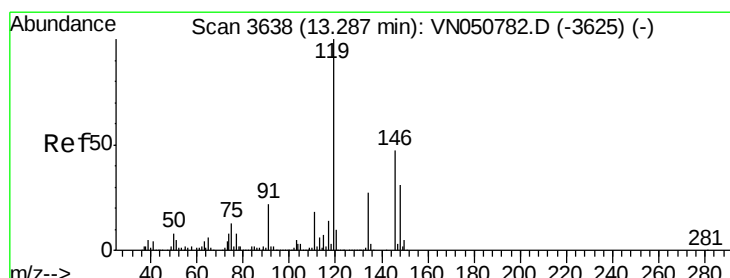
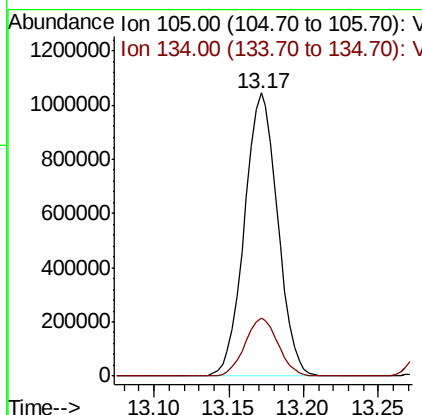
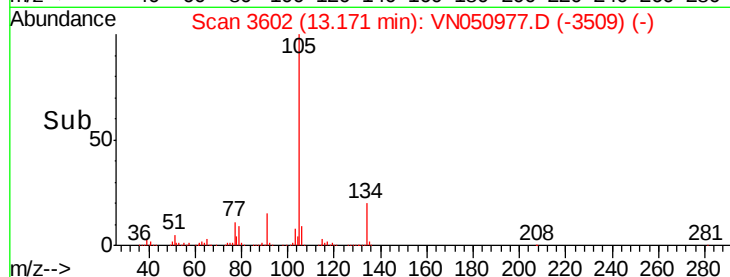
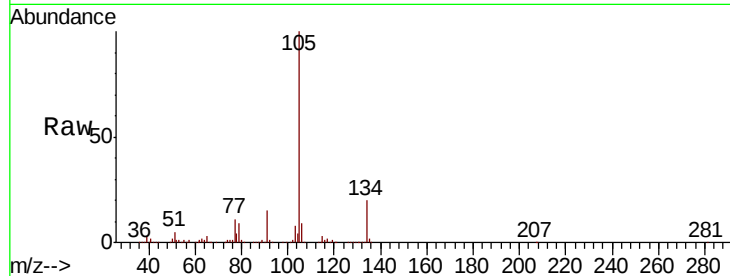
#85
 sec-Butylbenzene
 Concen: 53.82 ug/l
 RT: 13.17 min Scan# 3602
 Delta R.T. -0.00 min
 Lab File: VN050977.D
 Acq: 31 Aug 2018 10:20

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion:105 Resp: 1608559
 Ion Ratio Lower Upper
 105 100
 134 20.5 10.3 30.8

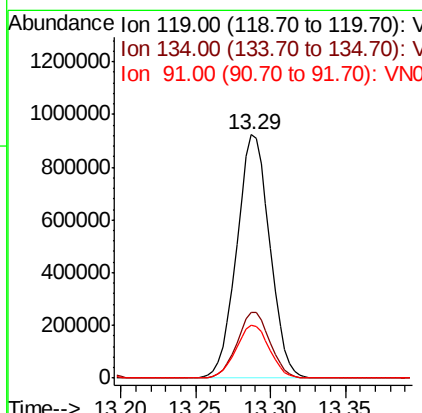
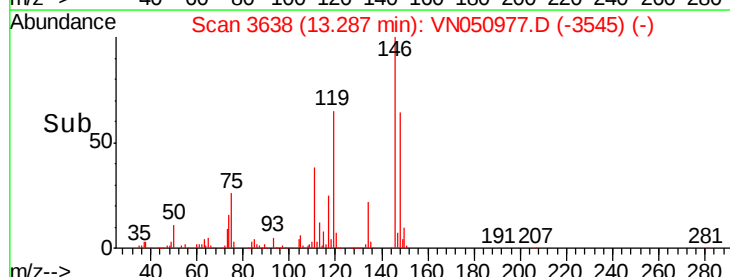
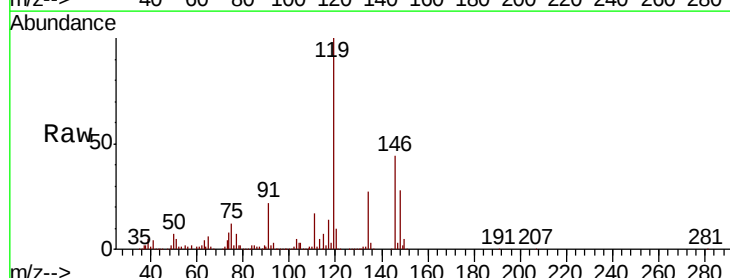
Manual Integrations
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#86
 p-Isopropyltoluene
 Concen: 55.52 ug/l
 RT: 13.29 min Scan# 3638
 Delta R.T. 0.00 min
 Lab File: VN050977.D
 Acq: 31 Aug 2018 10:20

Tgt Ion:119 Resp: 1413957
 Ion Ratio Lower Upper
 119 100
 134 26.9 13.7 41.0
 91 21.8 11.2 33.5





#87

1,3-Dichlorobenzene

Concen: 50.28 ug/l

RT: 13.28 min Scan# 3636

Delta R.T. -0.00 min

Lab File: VN050977.D

Acq: 31 Aug 2018 10:20

Instrument :

MSVOA_N

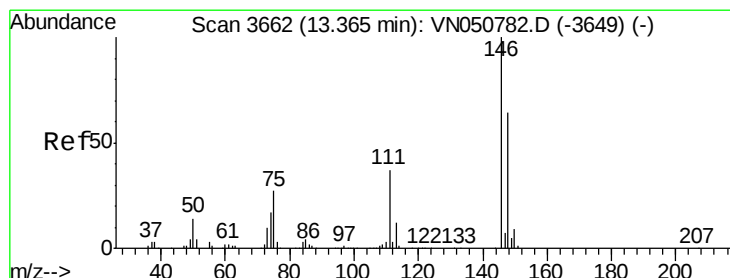
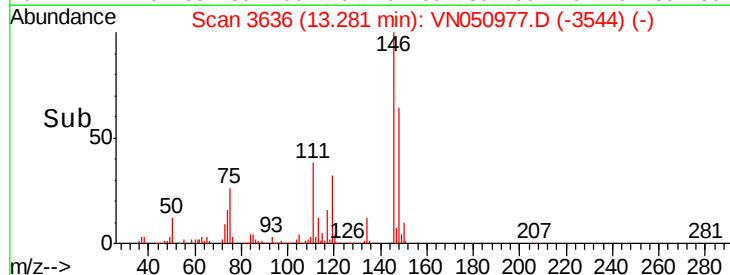
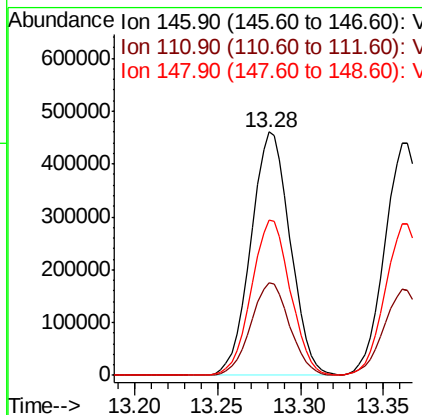
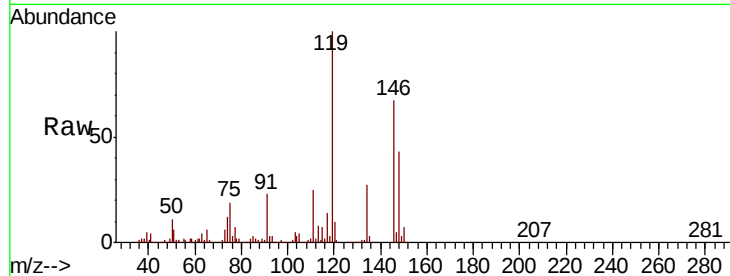
ClientSampleId :

VSTDCCC050

Tot Ion:	146	Resp:	756801
Ion Ratio	Lower	Upper	
146	100		
111	37.7	19.1	57.3
148	63.4	32.2	96.6

Manual Integrations
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#88

1,4-Dichlorobenzene

Concen: 48.89 ug/l

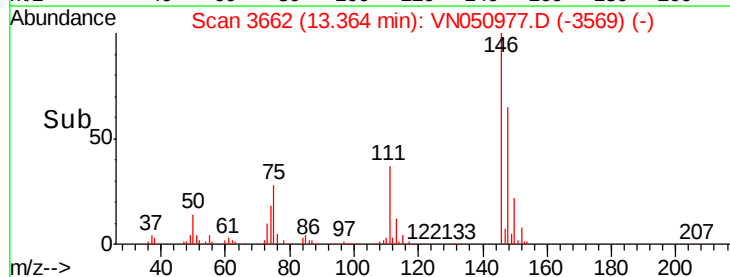
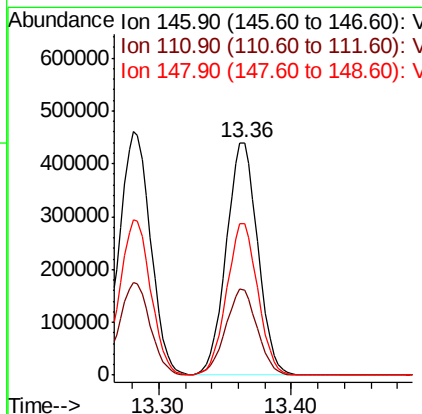
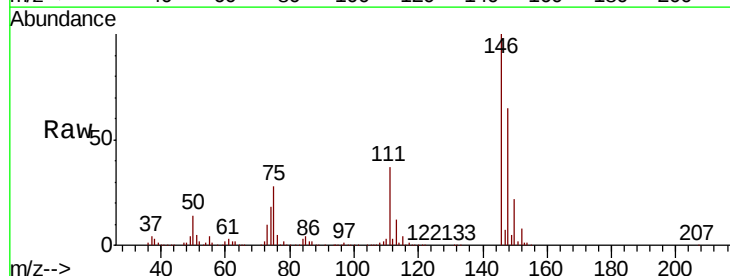
RT: 13.36 min Scan# 3662

Delta R.T. -0.00 min

Lab File: VN050977.D

Acq: 31 Aug 2018 10:20

Tgt Ion:	146	Resp:	724243
Ion Ratio	Lower	Upper	
146	100		
111	37.1	18.8	56.3
148	64.5	32.2	96.6





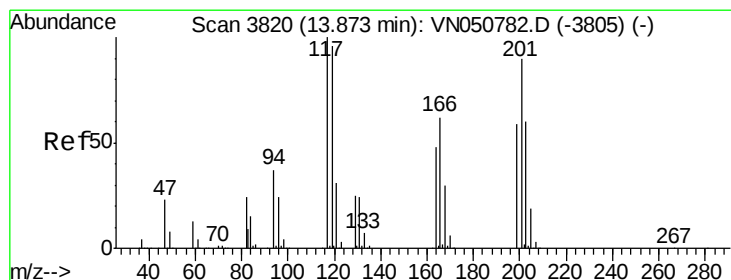
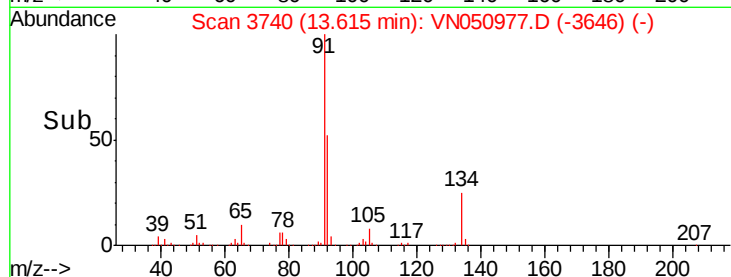
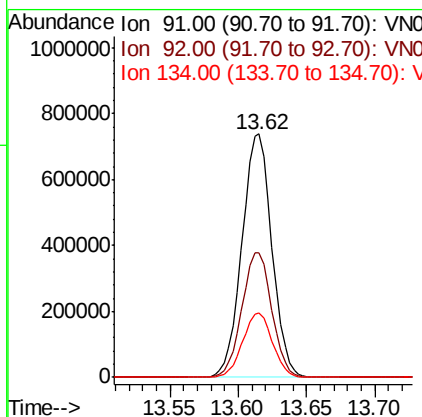
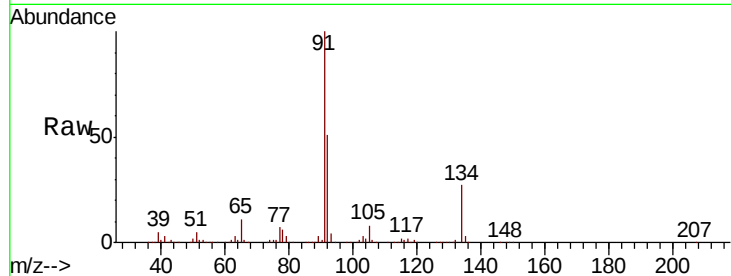
#89
n-Butylbenzene
Concen: 55.10 ug/l
RT: 13.62 min Scan# 3740
Delta R.T. 0.00 min
Lab File: VN050977.D
Acq: 31 Aug 2018 10:20

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.4	26.1	78.2
134	26.6	13.2	39.6

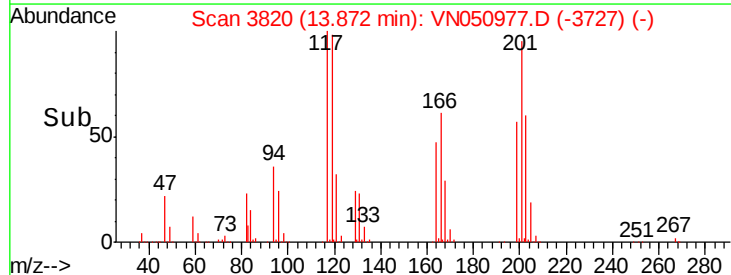
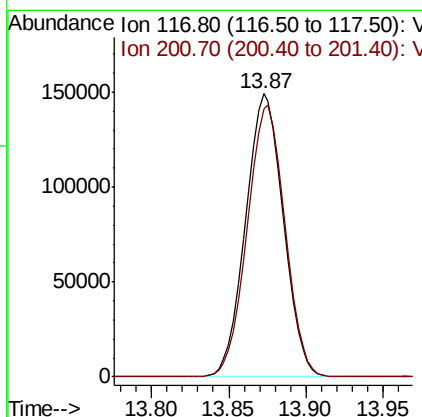
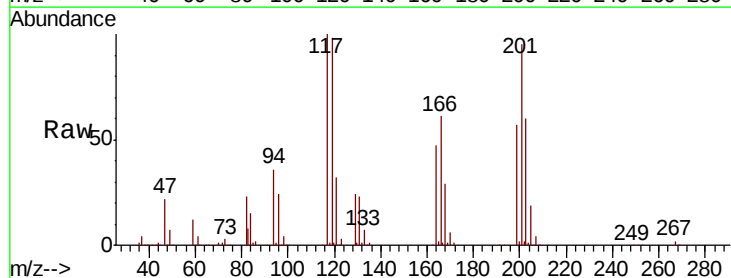
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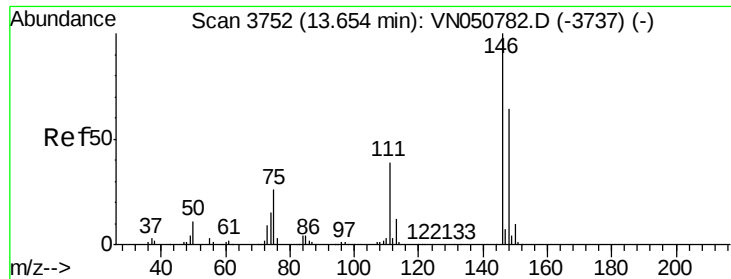
MMDadoda
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#90
Hexachloroethane
Concen: 52.28 ug/l
RT: 13.87 min Scan# 3820
Delta R.T. 0.00 min
Lab File: VN050977.D
Acq: 31 Aug 2018 10:20

Tgt Ion	Ratio	Lower	Upper
117	100		
201	95.7	46.0	137.8





#91

1,2-Dichlorobenzene

Concen: 49.66 ug/l

RT: 13.65 min Scan# 3751

Delta R.T. -0.00 min

Lab File: VN050977.D

Acq: 31 Aug 2018 10:20

Instrument :

MSVOA_N

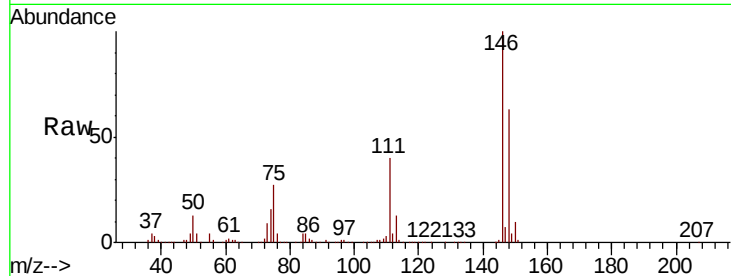
ClientSampleId :

VSTDCCC050

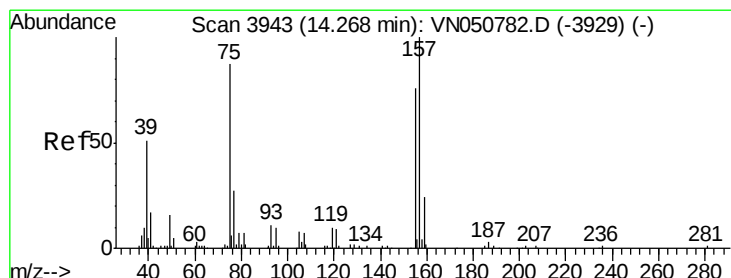
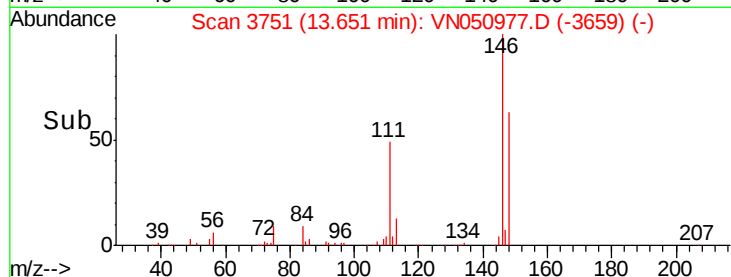
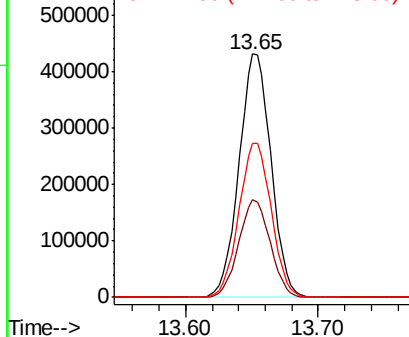
Tot Ion:	146	Resp:	721164
Ion Ratio	Lower	Upper	
146	100		
111	39.5	19.8	59.3
148	64.0	32.3	96.8

Manual Integrations
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Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 43.23 ug/l

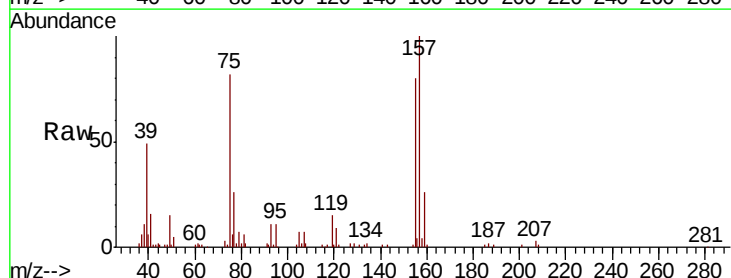
RT: 14.27 min Scan# 3943

Delta R.T. -0.00 min

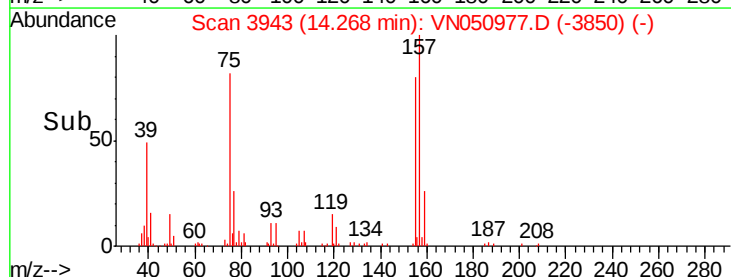
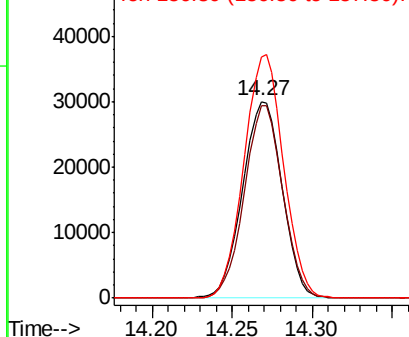
Lab File: VN050977.D

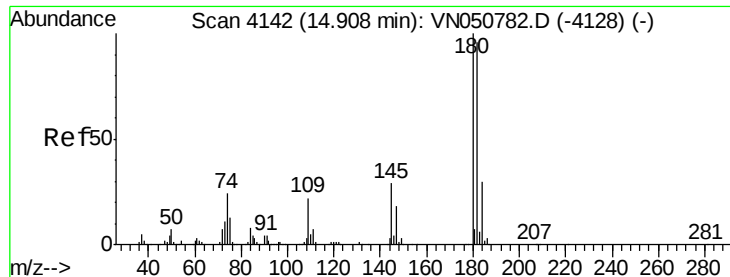
Acq: 31 Aug 2018 10:20

Tgt Ion:	75	Resp:	50679
Ion Ratio	Lower	Upper	
75	100		
155	95.0	46.4	139.1
157	123.9	60.7	182.0



Abundance Ion 74.90 (74.60 to 75.60): V
Ion 154.80 (154.50 to 155.50): V
Ion 156.80 (156.50 to 157.50): V





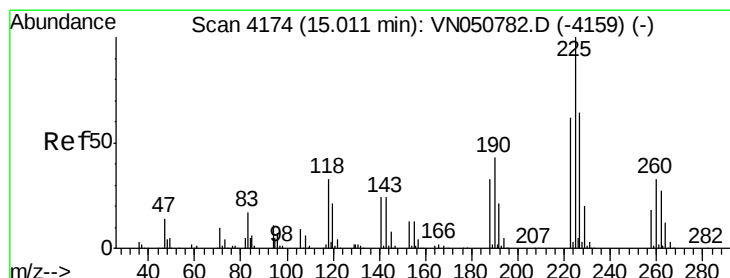
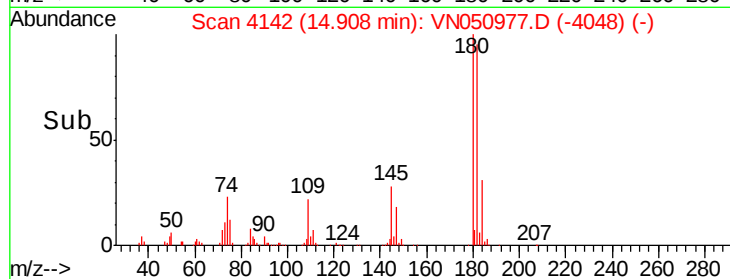
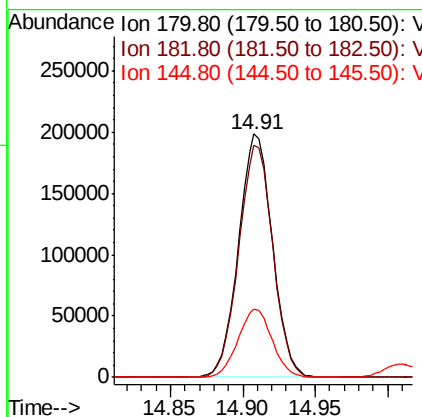
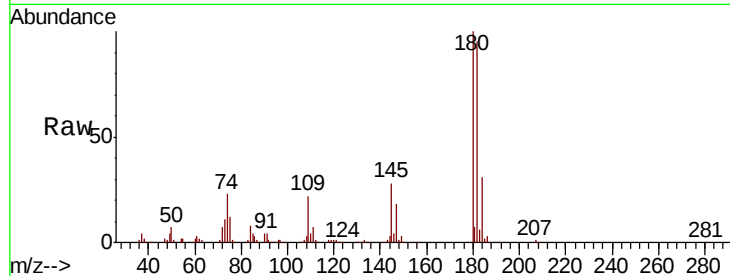
#93
 1,2,4-Trichlorobenzene
 Concen: 43.24 ug/l
 RT: 14.91 min Scan# 4142
 Delta R.T. 0.00 min
 Lab File: VN050977.D
 Acq: 31 Aug 2018 10:20

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
180	100	322118		
182	95.8	48.2	144.6	
145	28.1	14.1	42.2	

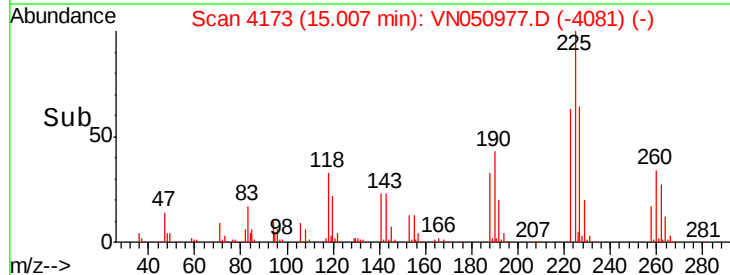
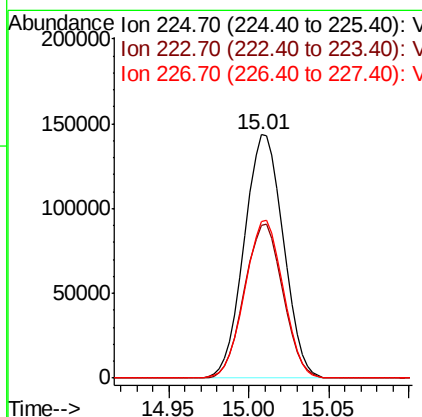
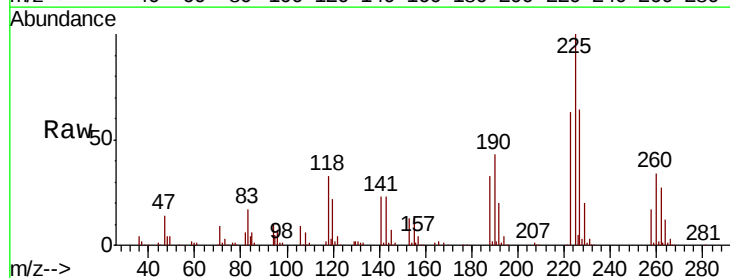
Manual Integrations
 APPROVED

MMDadoda
 9/4/2018 12:27:44 PM



#94
 Hexachlorobutadiene
 Concen: 55.91 ug/l
 RT: 15.01 min Scan# 4173
 Delta R.T. -0.00 min
 Lab File: VN050977.D
 Acq: 31 Aug 2018 10:20

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	240135		
223	62.3	31.3	93.8	
227	63.6	32.0	96.2	





#95

Naphthalene

Concen: 38.19 ug/l

RT: 15.13 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN050977.D

Acq: 31 Aug 2018 10:20

Instrument :

MSVOA_N

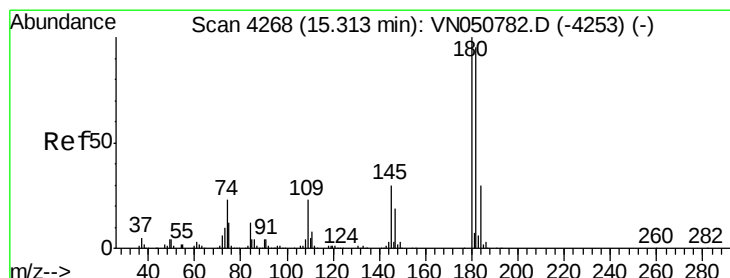
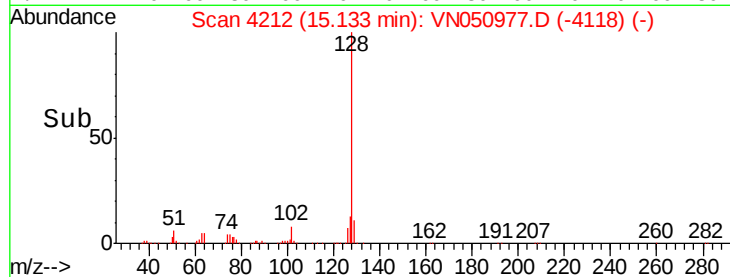
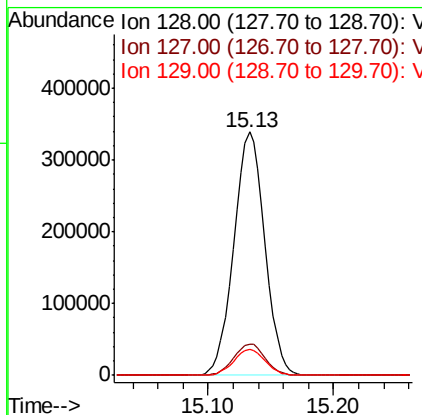
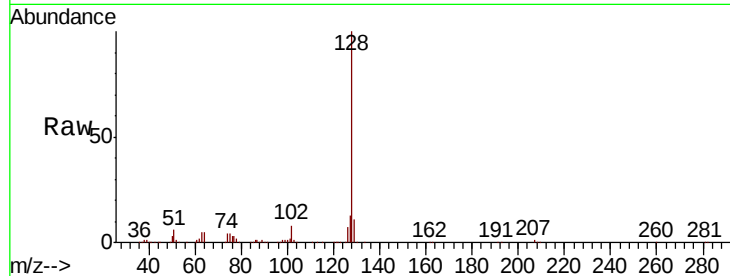
ClientSampleId :

VSTDCCC050

Tot Ion:	128	Resp:	578976
Ion Ratio	Lower	Upper	
128	100		
127	13.0	10.5	15.7
129	11.0	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
9/4/2018 12:27:44 PM



#96

1,2,3-Trichlorobenzene

Concen: 44.37 ug/l

RT: 15.31 min Scan# 4268

Delta R.T. 0.00 min

Lab File: VN050977.D

Acq: 31 Aug 2018 10:20

Tgt Ion:	180	Resp:	311450
Ion Ratio	Lower	Upper	
180	100		
182	95.9	48.0	144.2
145	29.7	15.2	45.6

