

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN040319\
 Data File : VN054914.D
 Acq On : 3 Apr 2019 9:10
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 4/4/2019 9:31:21 AM

Quant Time: Apr 04 01:30:40 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032919W.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 30 00:48:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	440793	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	682826	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	597023	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	274077	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	275972	46.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.88%	
35) Dibromofluoromethane	7.59	113	224926	49.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.82%	
50) Toluene-d8	10.09	98	843479	49.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.68%	
62) 4-Bromofluorobenzene	12.40	95	284691	50.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.16%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	199699	44.789	ug/l	99
3) Chloromethane	2.06	50	270237	43.835	ug/l	100
4) Vinyl Chloride	2.19	62	253065	45.711	ug/l	100
5) Bromomethane	2.57	94	141817	48.805	ug/l	95
6) Chloroethane	2.71	64	143476	46.412	ug/l	99
7) Trichlorofluoromethane	3.03	101	333264	48.964	ug/l	99
8) Diethyl Ether	3.41	74	106265	48.486	ug/l	67
9) 1,1,2-Trichlorotrifluoroet	3.75	101	183442	51.197	ug/l	94
10) Methyl Iodide	3.94	142	250043	50.977	ug/l #	89
11) Tert butyl alcohol	4.82	59	70027	226.193	ug/l	100
12) 1,1-Dichloroethene	3.73	96	169035	48.785	ug/l #	72
13) Acrolein	3.61	56	61452	222.035	ug/l	99
14) Allyl chloride	4.32	41	408370	47.849	ug/l #	91
15) Acrylonitrile	4.99	53	415702	241.576	ug/l	99
16) Acetone	3.82	43	439526	310.189	ug/l #	81
17) Carbon Disulfide	4.04	76	509259	45.315	ug/l	99
18) Methyl Acetate	4.33	43	187616	50.851	ug/l #	89
19) Methyl tert-butyl Ether	5.05	73	583319	48.128	ug/l	96
20) Methylene Chloride	4.55	84	237313	47.480	ug/l #	84
21) trans-1,2-Dichloroethene	5.04	96	217598	47.812	ug/l	86
22) Diisopropyl ether	5.96	45	841684	49.863	ug/l #	95
23) Vinyl Acetate	5.90	43	2952249	251.325	ug/l #	92
24) 1,1-Dichloroethane	5.85	63	449155	49.882	ug/l	98
25) 2-Butanone	6.84	43	579317	276.585	ug/l #	87
26) 2,2-Dichloropropane	6.82	77	326665	51.761	ug/l	97
27) cis-1,2-Dichloroethene	6.83	96	253144	49.238	ug/l	87
28) Bromochloromethane	7.19	49	224966	49.965	ug/l #	71
29) Tetrahydrofuran	7.22	42	337890	232.266	ug/l #	84
30) Chloroform	7.37	83	430283	50.114	ug/l	100
31) Cyclohexane	7.65	56	412344	50.269	ug/l	86
32) 1,1,1-Trichloroethane	7.57	97	358686	50.410	ug/l	95
36) 1,1-Dichloropropene	7.79	75	323279	50.809	ug/l	96
37) Ethyl Acetate	6.93	43	230849	49.476	ug/l	94
38) Carbon Tetrachloride	7.77	117	310101	50.180	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	369267	52.790	ug/l	90
40) Benzene	8.04	78	958880	52.669	ug/l	99
41) Methacrylonitrile	7.18	41	136446	52.058	ug/l #	88
42) 1,2-Dichloroethane	8.12	62	338342	52.048	ug/l	97
43) Isopropyl Acetate	8.17	43	391406	51.627	ug/l	94
44) Trichloroethene	8.83	130	247968	52.469	ug/l	88
45) 1,2-Dichloropropane	9.12	63	271738	52.346	ug/l	99
46) Dibromomethane	9.21	93	150155	51.418	ug/l	90
47) Bromodichloromethane	9.40	83	335647	55.304	ug/l	98
48) Methyl methacrylate	9.20	41	198989	48.420	ug/l	90
49) 1,4-Dioxane	9.20	88	41778	1024.544	ug/l #	86
51) 4-Methyl-2-Pentanone	9.99	43	1122744	263.404	ug/l	92
52) Toluene	10.15	92	579201	53.465	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	315136	55.199	ug/l	96
54) cis-1,3-Dichloropropene	9.84	75	384300	56.351	ug/l #	91
55) 1,1,2-Trichloroethane	10.56	97	206974	51.381	ug/l	94
56) Ethyl methacrylate	10.43	69	277959	52.602	ug/l #	86
57) 1,3-Dichloropropane	10.71	76	365759	52.815	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.69	63	579791	254.523	ug/l	89
59) 2-Hexanone	10.75	43	746829	273.699	ug/l	91
60) Dibromochloromethane	10.90	129	226243	55.445	ug/l	99
61) 1,2-Dibromoethane	11.00	107	200908	52.190	ug/l	99
64) Tetrachloroethene	10.63	164	237924	51.933	ug/l	96
65) Chlorobenzene	11.43	112	609365	52.131	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	236691	54.098	ug/l	99
67) Ethyl Benzene	11.51	91	1118476	53.025	ug/l	97
68) m/p-Xylenes	11.62	106	826373	105.865	ug/l	95
69) o-Xylene	11.95	106	399513	52.193	ug/l	94
70) Styrene	11.96	104	676724	55.293	ug/l	97
71) Bromoform	12.13	173	138458	54.019	ug/l #	100
73) Isopropylbenzene	12.25	105	1078049	48.123	ug/l	98
74) N-amyl acetate	12.07	43	324214	46.455	ug/l	92
75) 1,1,2,2-Tetrachloroethane	12.50	83	256781	52.068	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	224002m	47.046	ug/l	
77) Bromobenzene	12.53	156	260361	48.156	ug/l	86
78) n-propylbenzene	12.59	91	1223746	49.701	ug/l	96
79) 2-Chlorotoluene	12.67	91	726405	47.686	ug/l	94
80) 1,3,5-Trimethylbenzene	12.73	105	897465	48.824	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.30	75	60025	49.037	ug/l	86
82) 4-Chlorotoluene	12.77	91	726560	49.106	ug/l	96
83) tert-Butylbenzene	12.99	119	754895	53.134	ug/l	96
84) 1,2,4-Trimethylbenzene	13.04	105	890056	50.825	ug/l	97
85) sec-Butylbenzene	13.17	105	991862	49.673	ug/l	97
86) p-Isopropyltoluene	13.29	119	882875	50.130	ug/l	98
87) 1,3-Dichlorobenzene	13.28	146	454481	50.208	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	436593	49.176	ug/l	99
89) n-Butylbenzene	13.61	91	749158	52.137	ug/l	97
90) Hexachloroethane	13.87	117	148671	49.720	ug/l	87
91) 1,2-Dichlorobenzene	13.65	146	442539	48.442	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.27	75	36511	47.675	ug/l	85

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	219720	49.888	ug/l	100
94) Hexachlorobutadiene	15.01	225	139607	53.678	ug/l	100
95) Naphthalene	15.13	128	448029	45.356	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	212186	47.704	ug/l	98

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

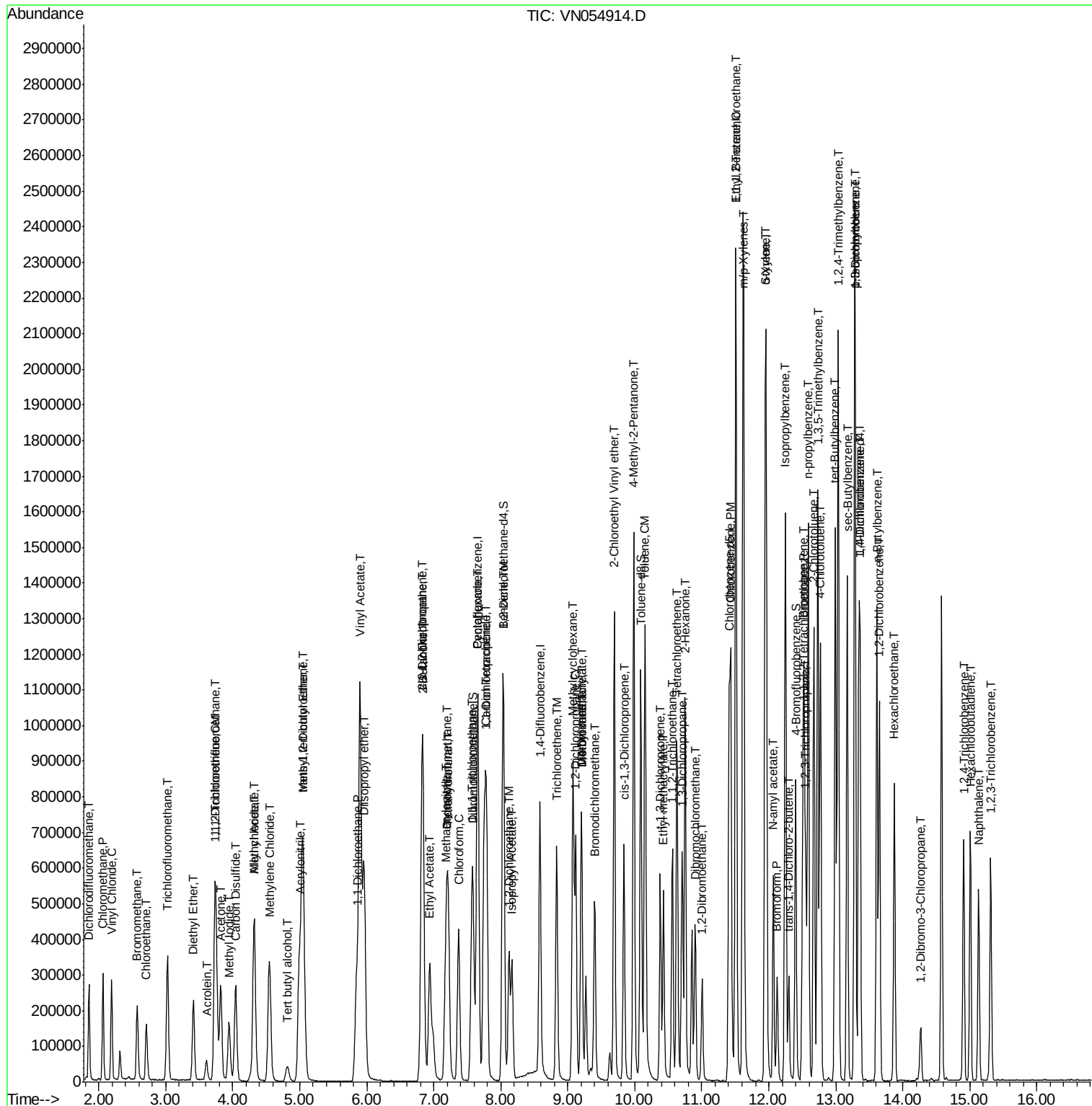
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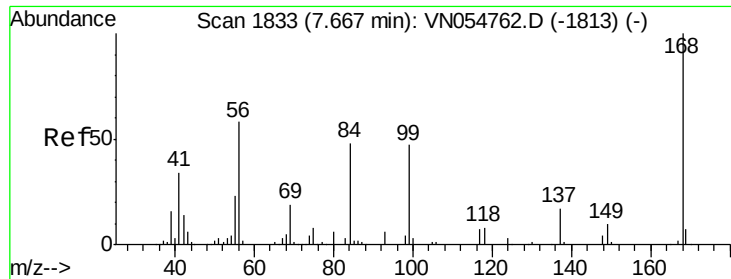
Instrument :
 MSVOA_N
 ClientSampleId :
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN054914.D

Acq: 3 Apr 2019 9:10

Instrument :

MSVOA_N

ClientSampled :

VSTDCCC050

Tot Ion:168 Resp: 440793

Ion Ratio Lower Upper

168 100

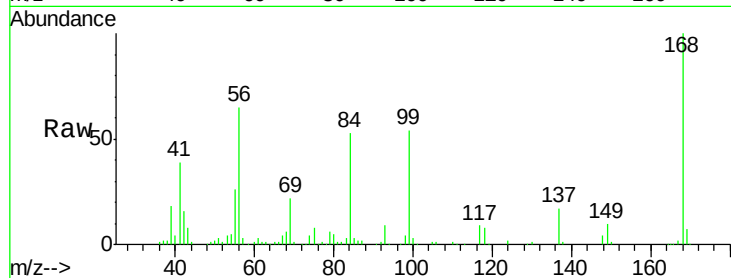
99 53.9 37.1 55.7

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.66

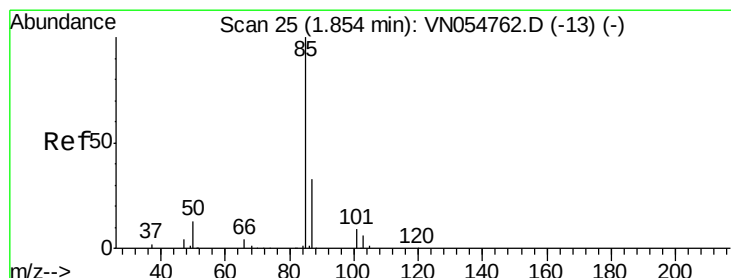
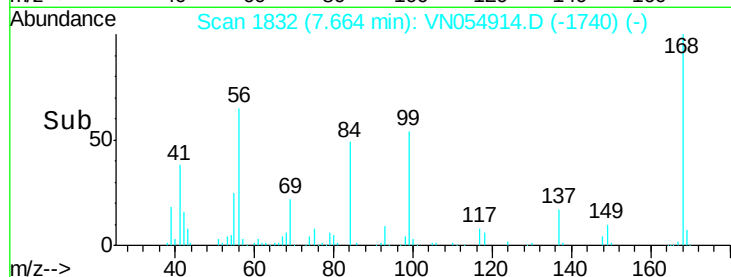
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80 7.90



#2

Dichlorodifluoromethane

Concen: 44.789 ug/l

RT: 1.85 min Scan# 25

Delta R.T. 0.00 min

Lab File: VN054914.D

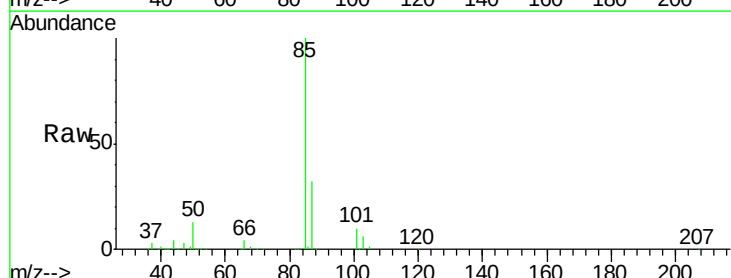
Acq: 3 Apr 2019 9:10

Tgt Ion: 85 Resp: 199699

Ion Ratio Lower Upper

85 100

87 32.1 15.9 47.7



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.85

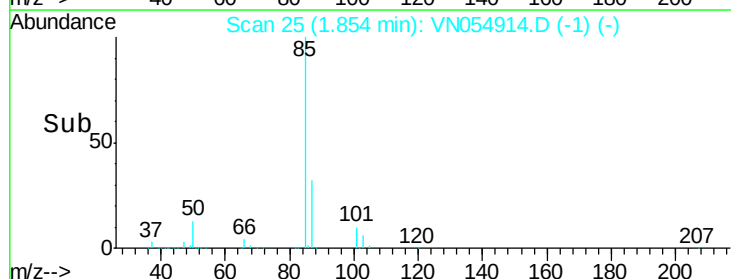
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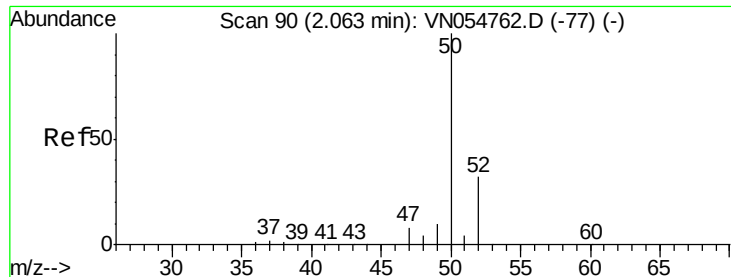
100000

50000

0

Time--> 1.80 1.85 1.90 1.95





#3

Chloromethane

Concen: 43.835 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN054914.D

Acq: 3 Apr 2019 9:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 270237

Ion Ratio Lower Upper

50 100

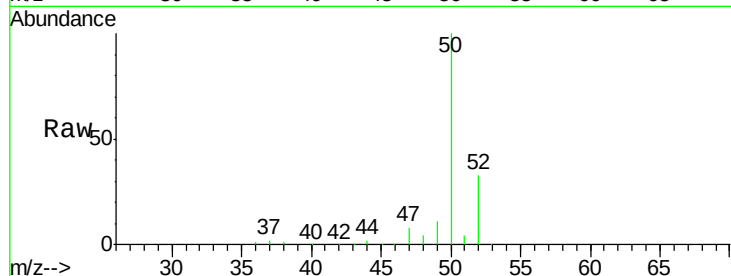
52 33.0 26.4 39.6

Manual Integrations

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Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0

2.06

200000

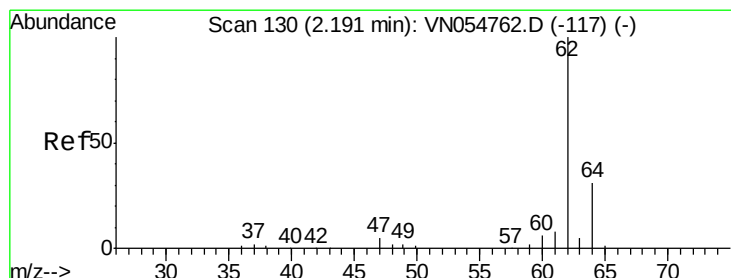
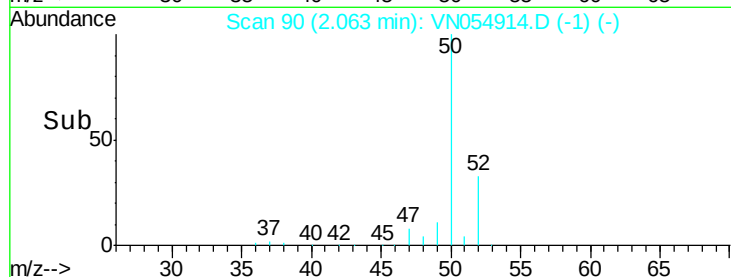
150000

100000

50000

0

Time-->



#4

Vinyl Chloride

Concen: 45.711 ug/l

RT: 2.19 min Scan# 130

Delta R.T. 0.00 min

Lab File: VN054914.D

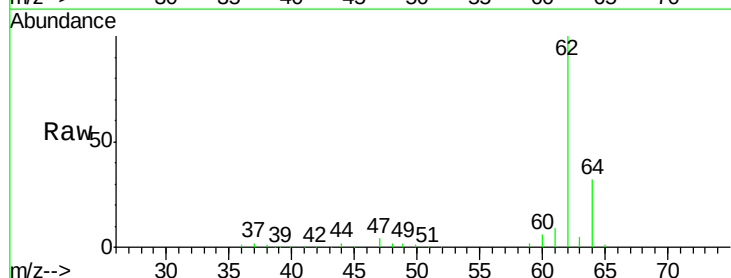
Acq: 3 Apr 2019 9:10

Tgt Ion: 62 Resp: 253065

Ion Ratio Lower Upper

62 100

64 31.6 25.5 38.3



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0

2.19

200000

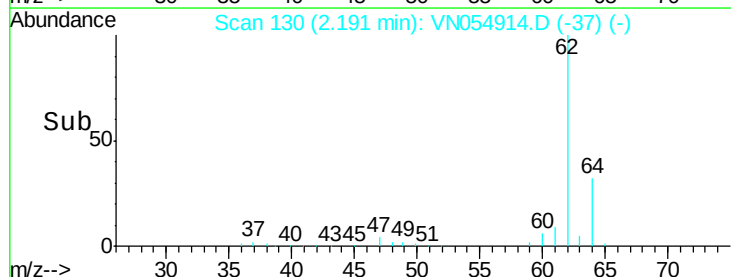
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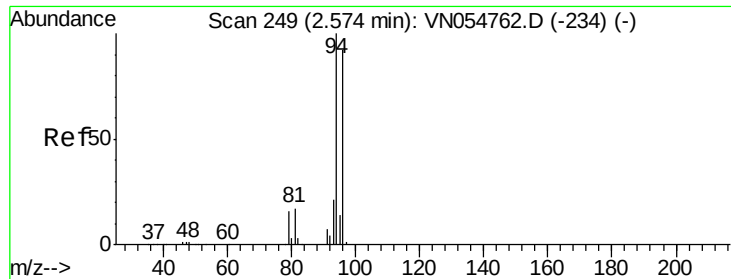
100000

50000

0

Time-->





#5

Bromomethane

Concen: 48.805 ug/l

RT: 2.57 min Scan# 249

Delta R.T. 0.00 min

Lab File: VN054914.D

Acq: 3 Apr 2019 9:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 94 Resp: 141817

Ion Ratio Lower Upper

94 100

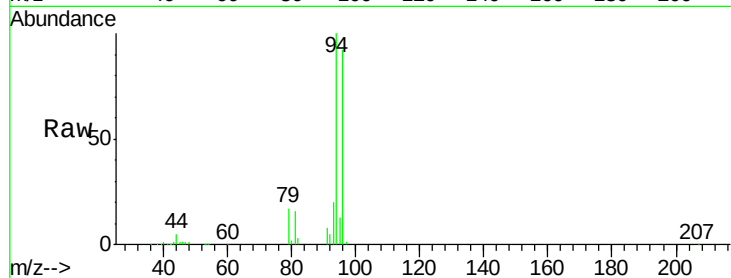
96 91.6 77.0 115.4

Manual Integrations

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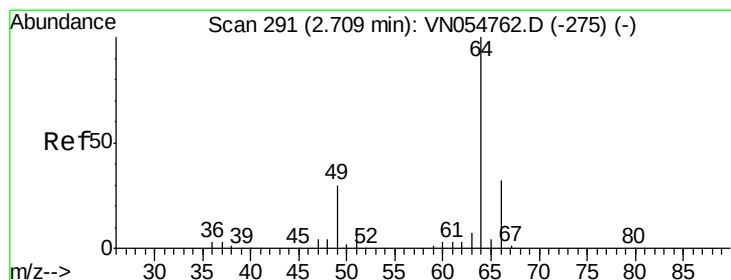
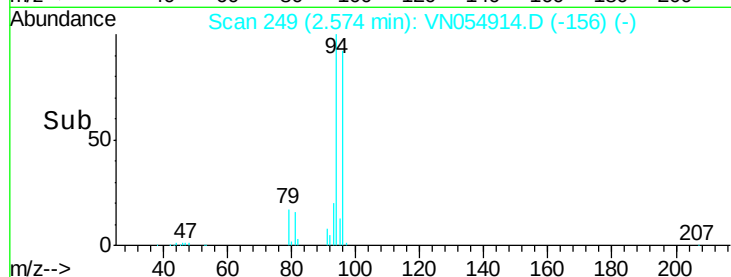
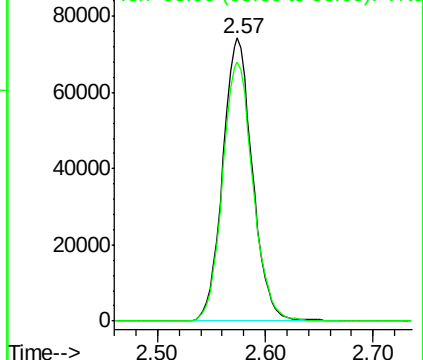
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4/4/2019 9:31:21 AM



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO



#6

Chloroethane

Concen: 46.412 ug/l

RT: 2.71 min Scan# 291

Delta R.T. 0.00 min

Lab File: VN054914.D

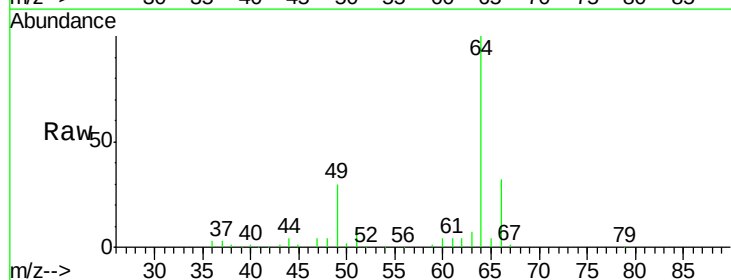
Acq: 3 Apr 2019 9:10

Tgt Ion: 64 Resp: 143476

Ion Ratio Lower Upper

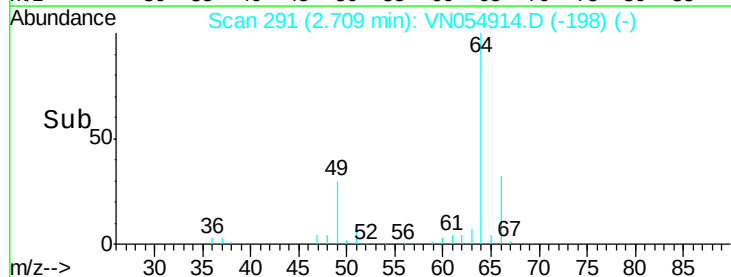
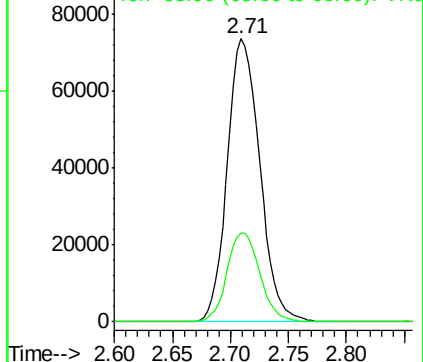
64 100

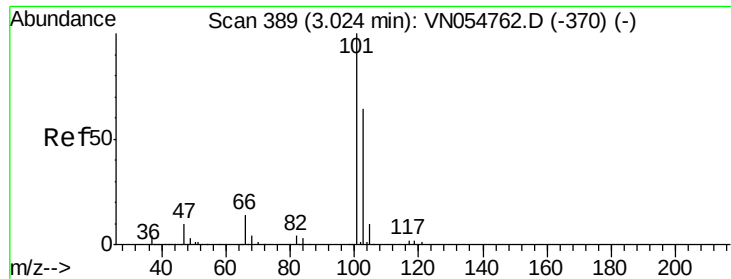
66 31.6 25.7 38.5



Abundance Ion 63.90 (63.60 to 64.60): VNO

Ion 65.90 (65.60 to 66.60): VNO





#7

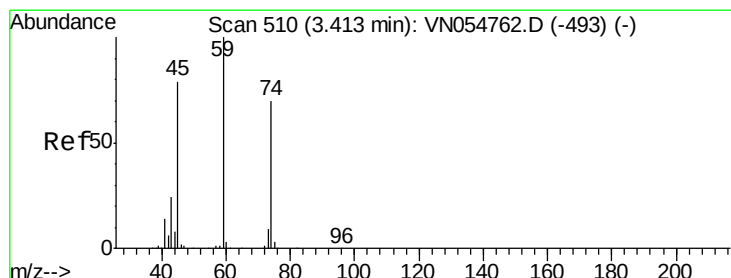
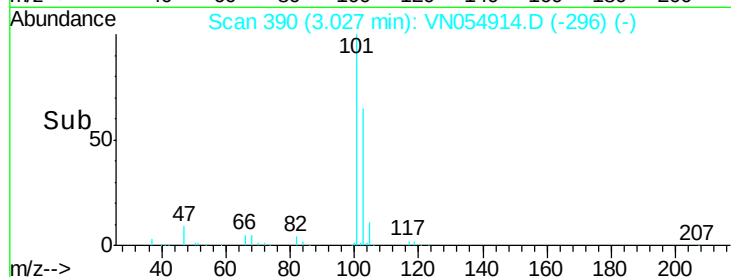
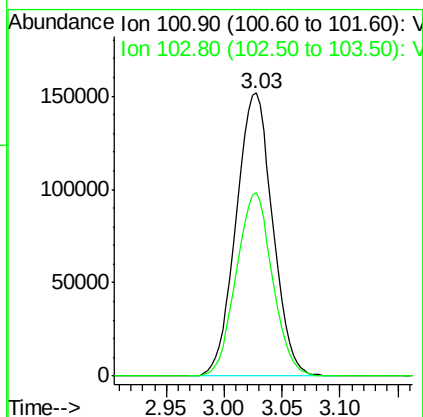
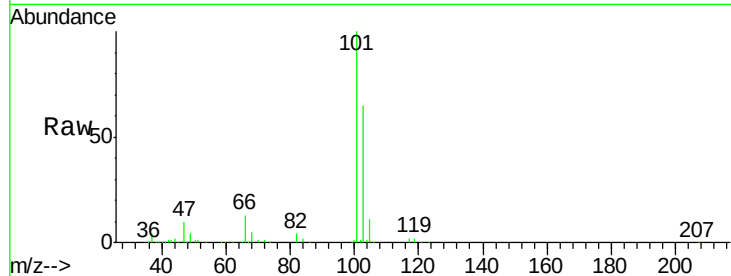
Trichlorofluoromethane
 Concen: 48.964 ug/l
 RT: 3.03 min Scan# 390
 Delta R.T. 0.00 min
 Lab File: VN054914.D
 Acq: 3 Apr 2019 9:10

Instrument :
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 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.9	51.4	77.2

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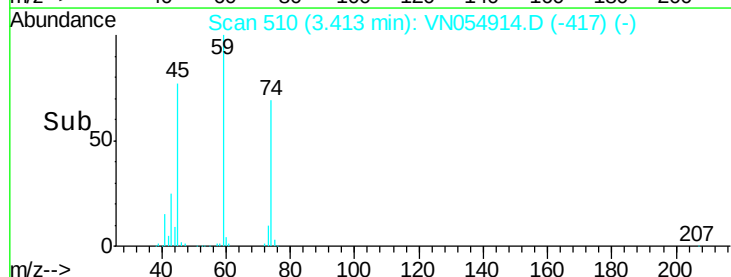
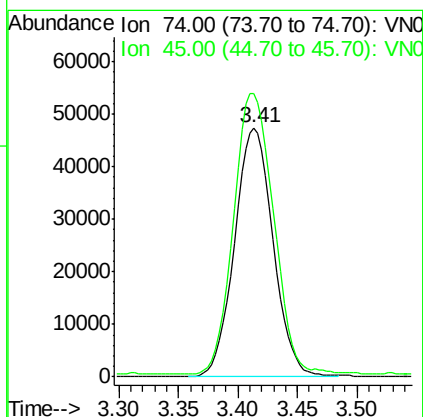
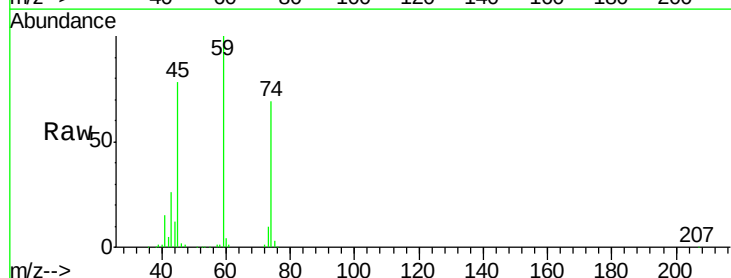
MMDadoda
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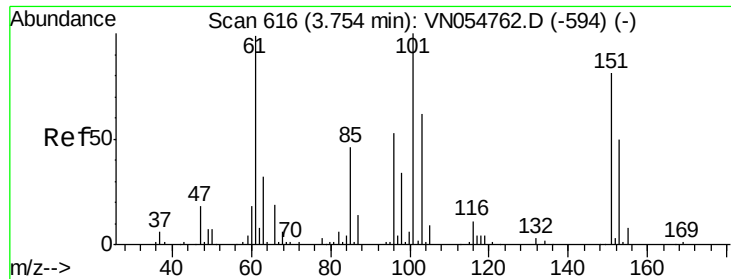


#8

Diethyl Ether
 Concen: 48.486 ug/l
 RT: 3.41 min Scan# 510
 Delta R.T. 0.00 min
 Lab File: VN054914.D
 Acq: 3 Apr 2019 9:10

Tgt Ion	Ratio	Lower	Upper
74	100		
45	117.1	43.1	129.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 51.197 ug/l

RT: 3.75 min Scan# 616

Delta R.T. 0.00 min

Lab File: VN054914.D

Acq: 3 Apr 2019 9:10

Instrument :

MSVOA_N

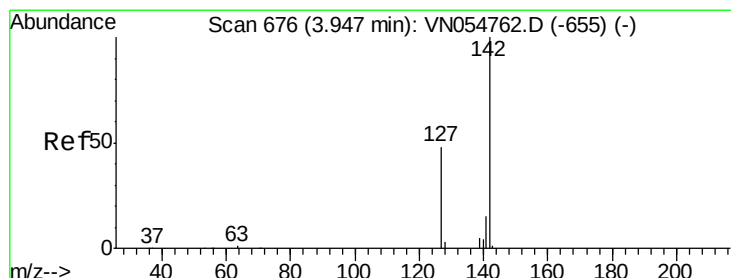
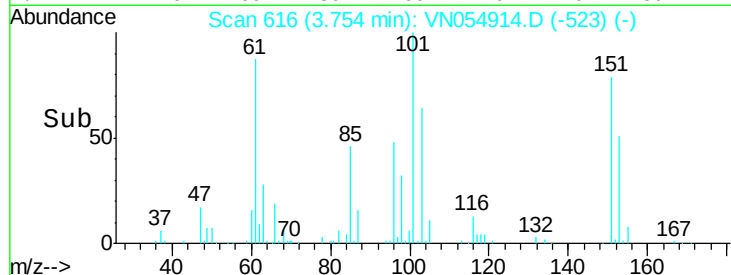
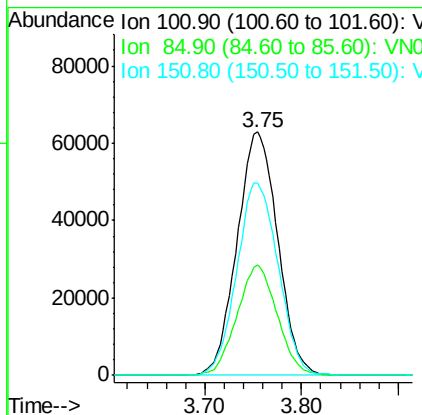
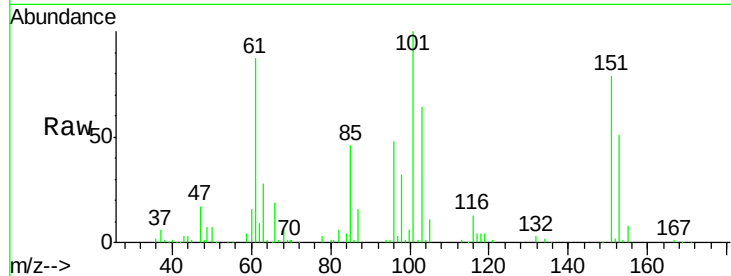
ClientSampleId :

VSTDCCC050

Tot Ion:	101	Resp:	183442
Ion Ratio	Lower	Upper	
101	100		
85	44.7	32.4	48.6
151	80.6	68.2	102.2

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#10

Methyl Iodide

Concen: 50.977 ug/l

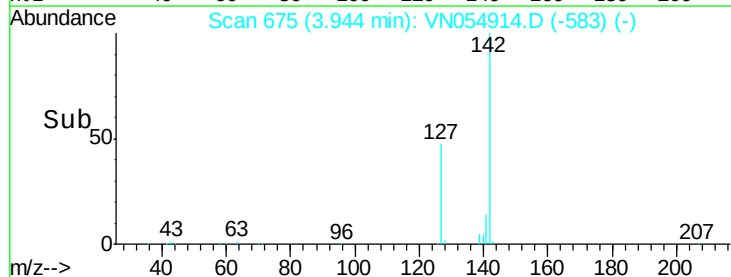
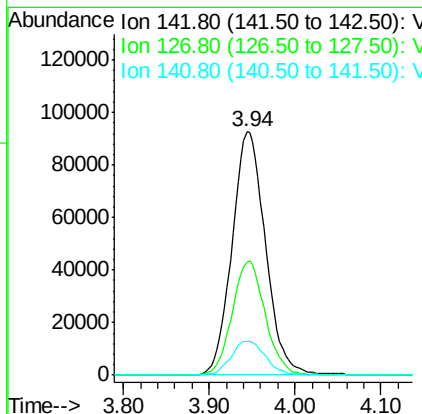
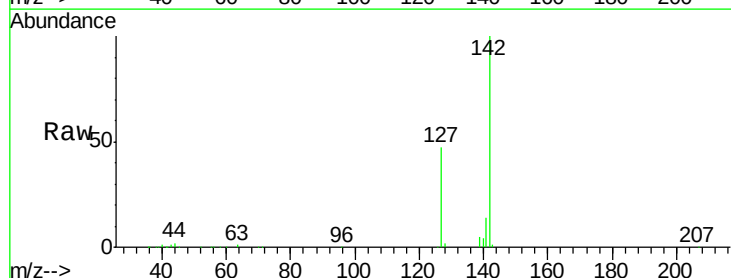
RT: 3.94 min Scan# 675

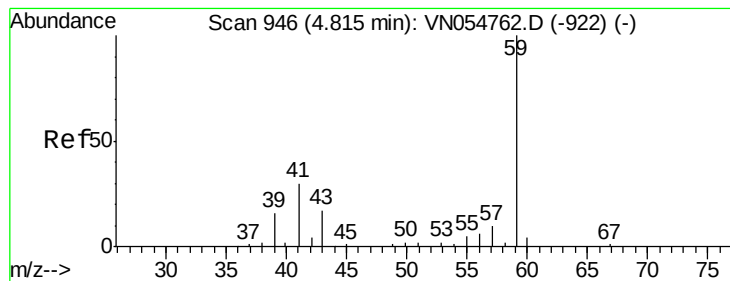
Delta R.T. -0.00 min

Lab File: VN054914.D

Acq: 3 Apr 2019 9:10

Tgt Ion:	142	Resp:	250043
Ion Ratio	Lower	Upper	
142	100		
127	46.4	30.3	45.5#
141	14.5	11.2	16.8





#11

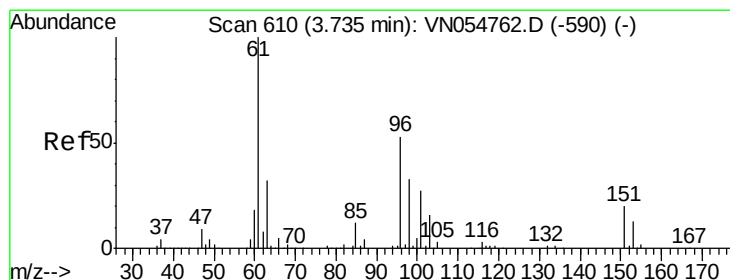
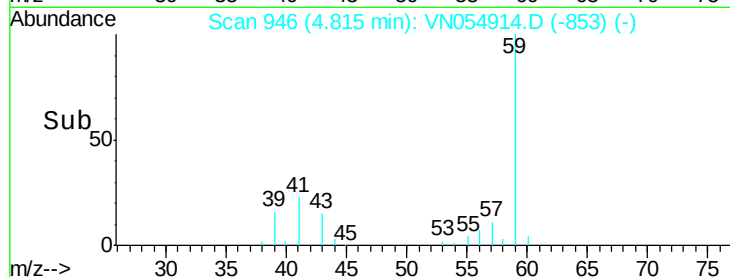
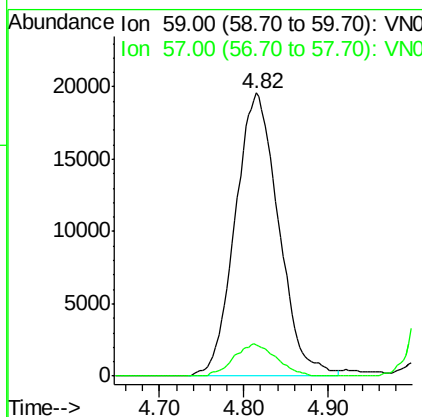
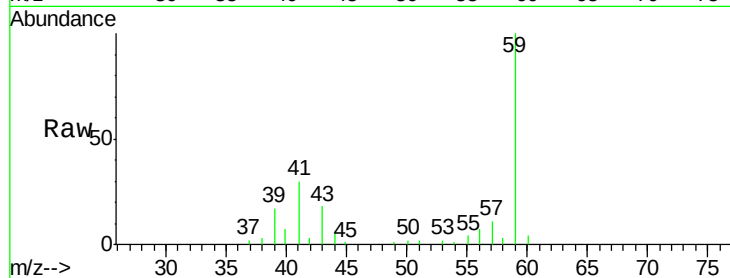
Tert butyl alcohol
 Concen: 226.193 ug/l
 RT: 4.82 min Scan# 946
 Delta R.T. 0.00 min
 Lab File: VN054914.D
 Acq: 3 Apr 2019 9:10

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
59	100		
57	11.1	9.0	13.6

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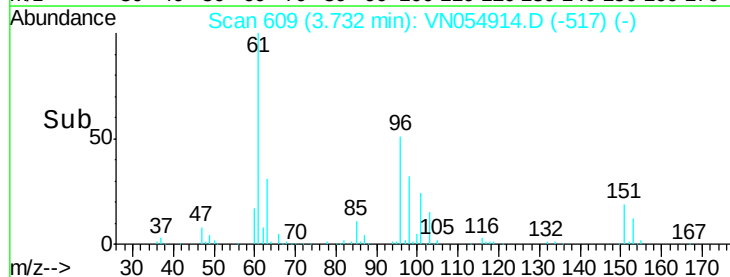
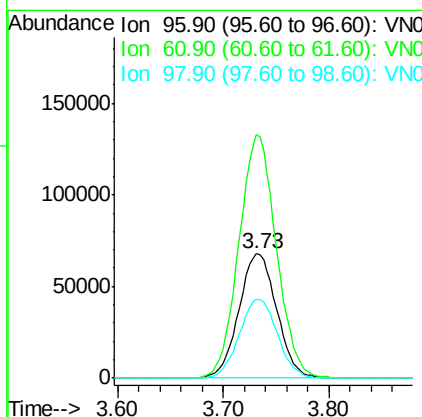
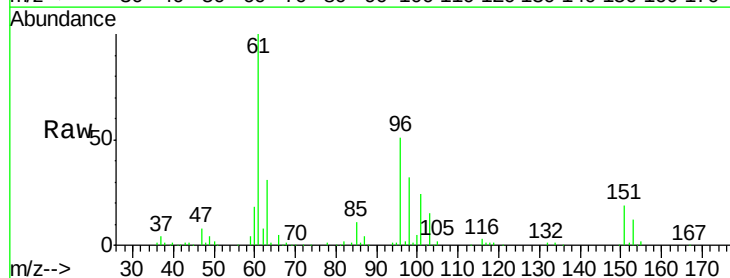
MMDadoda
 4/4/2019 9:31:21 AM

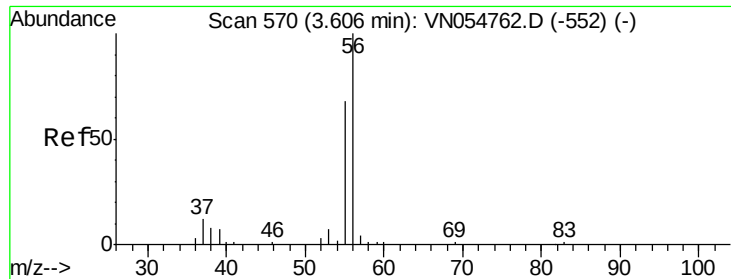


#12

1,1-Dichloroethene
 Concen: 48.785 ug/l
 RT: 3.73 min Scan# 609
 Delta R.T. -0.00 min
 Lab File: VN054914.D
 Acq: 3 Apr 2019 9:10

Tgt Ion	Ratio	Lower	Upper
96	100		
61	195.7	116.5	174.7#
98	63.6	51.0	76.4





#13

Acrolein

Concen: 222.035 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN054914.D

Acq: 3 Apr 2019 9:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 61452

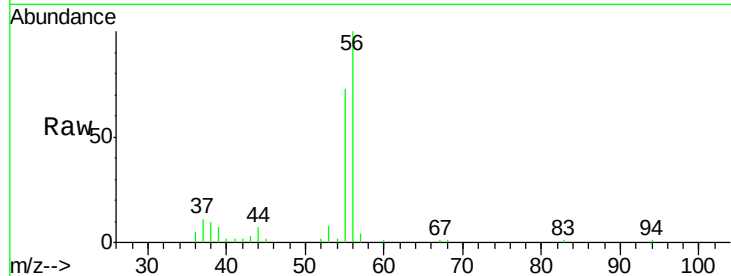
Ion Ratio Lower Upper

56 100

55 71.8 56.7 85.1

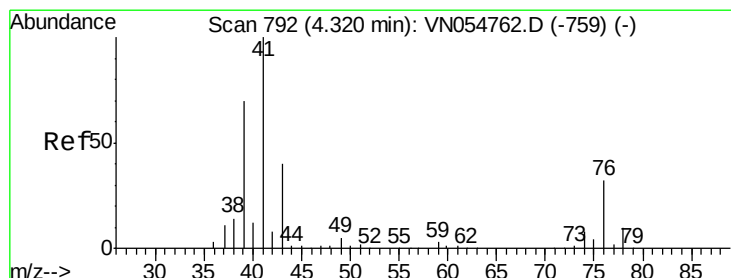
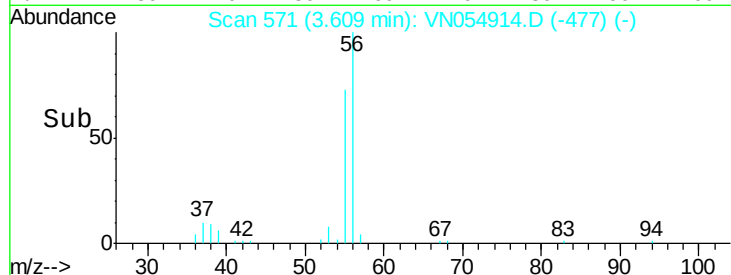
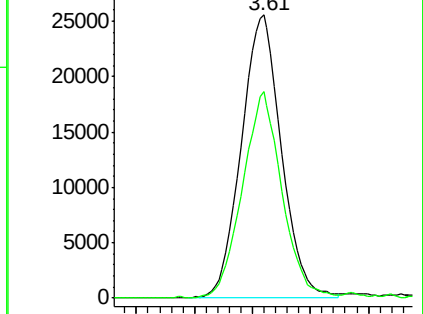
Manual Integrations
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Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Allyl chloride

Concen: 47.849 ug/l

RT: 4.32 min Scan# 791

Delta R.T. -0.00 min

Lab File: VN054914.D

Acq: 3 Apr 2019 9:10

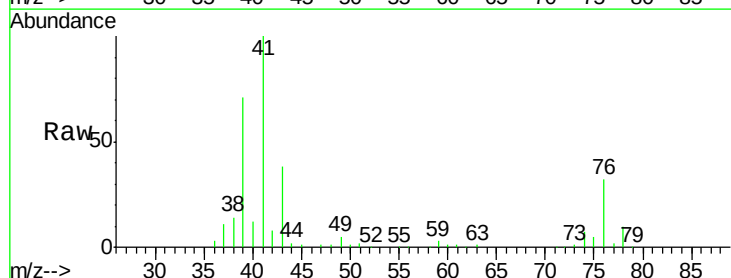
Tgt Ion: 41 Resp: 408370

Ion Ratio Lower Upper

41 100

39 68.4 58.2 87.4

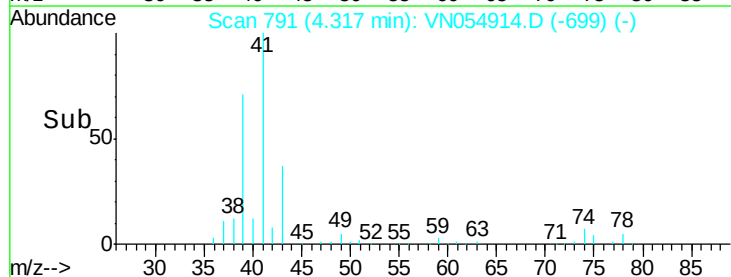
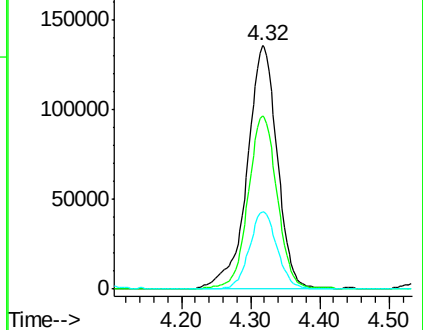
76 29.3 31.7 47.5#

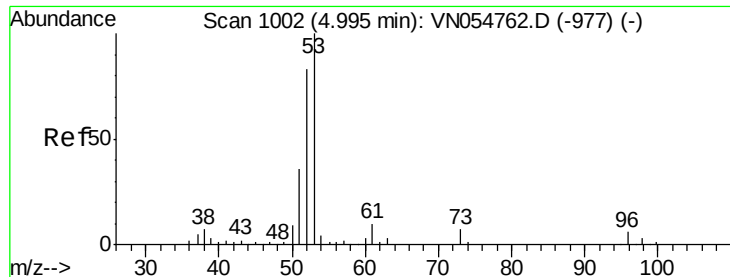


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





#15

Acrylonitrile

Concen: 241.576 ug/l

RT: 4.99 min Scan# 1001

Delta R.T. -0.00 min

Lab File: VN054914.D

Acq: 3 Apr 2019 9:10

Instrument :

MSVOA_N

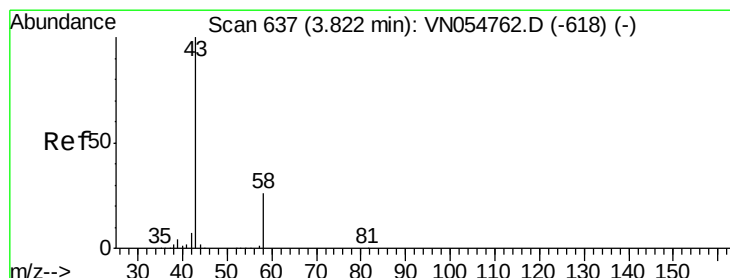
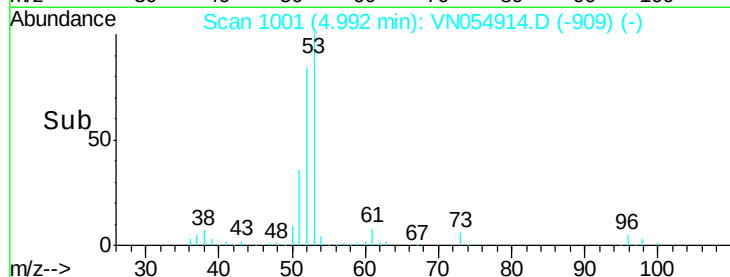
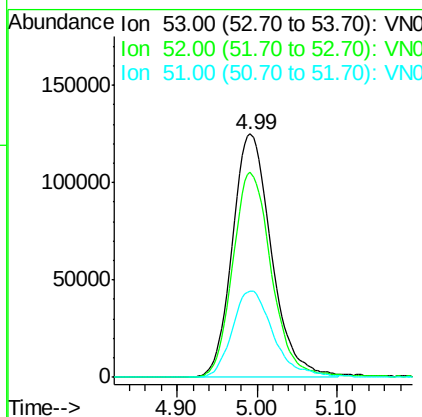
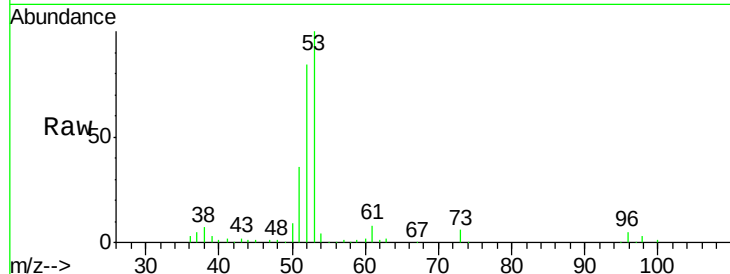
ClientSampleId :

VSTDCCC050

Tot Ion:	53	Resp:	415702
Ion	Ratio	Lower	Upper
53	100		
52	83.3	66.4	99.6
51	37.6	29.6	44.4

Manual Integrations
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#16

Acetone

Concen: 310.189 ug/l

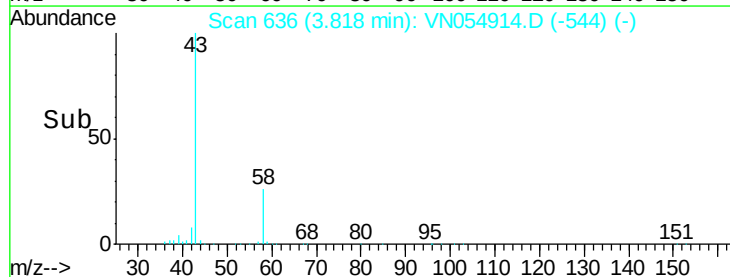
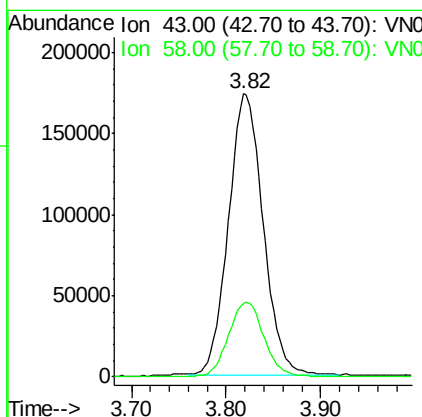
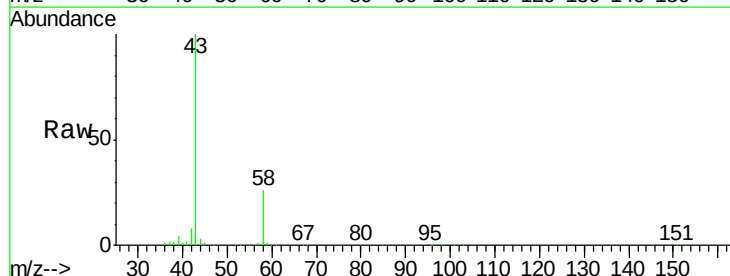
RT: 3.82 min Scan# 636

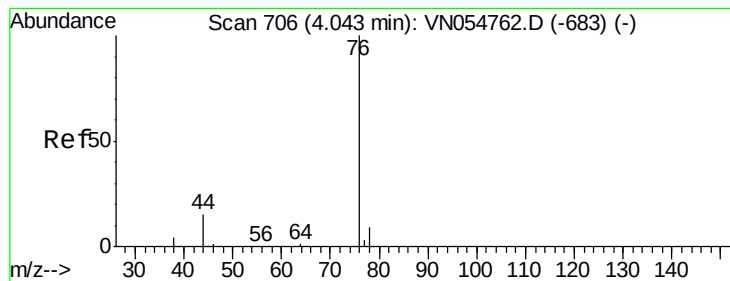
Delta R.T. -0.00 min

Lab File: VN054914.D

Acq: 3 Apr 2019 9:10

Tgt Ion:	43	Resp:	439526
Ion	Ratio	Lower	Upper
43	100		
58	26.1	29.9	44.9#





#17

Carbon Disulfide

Concen: 45.315 ug/l

RT: 4.04 min Scan# 706

Delta R.T. 0.00 min

Lab File: VN054914.D

Acq: 3 Apr 2019 9:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 76 Resp: 509259

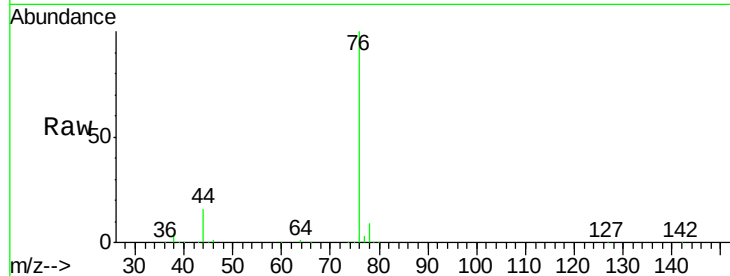
Ion Ratio Lower Upper

76 100

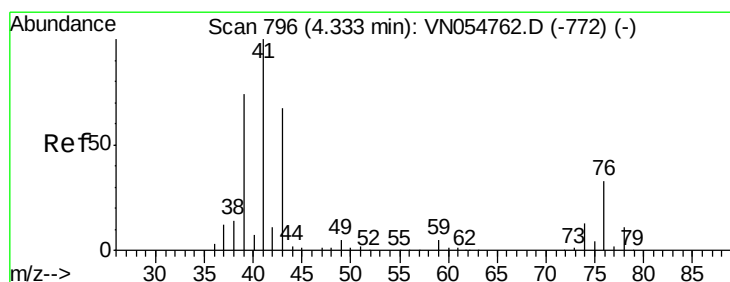
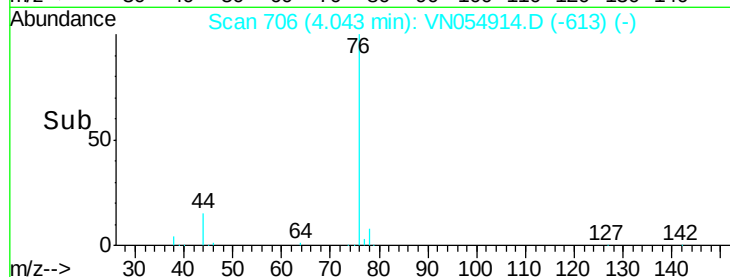
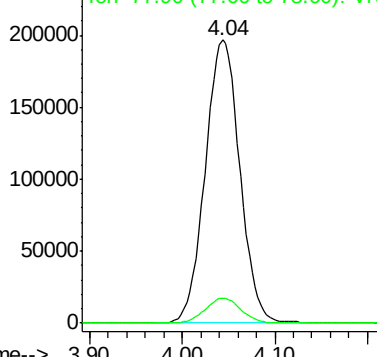
78 8.9 7.5 11.3

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Abundance Ion 75.90 (75.60 to 76.60): VNO
Ion 77.90 (77.60 to 78.60): VNO



#18

Methyl Acetate

Concen: 50.851 ug/l

RT: 4.33 min Scan# 795

Delta R.T. -0.00 min

Lab File: VN054914.D

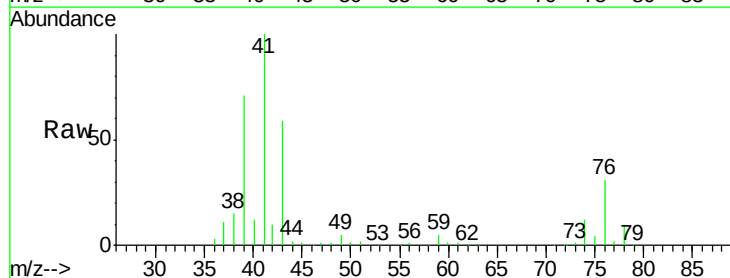
Acq: 3 Apr 2019 9:10

Tgt Ion: 43 Resp: 187616

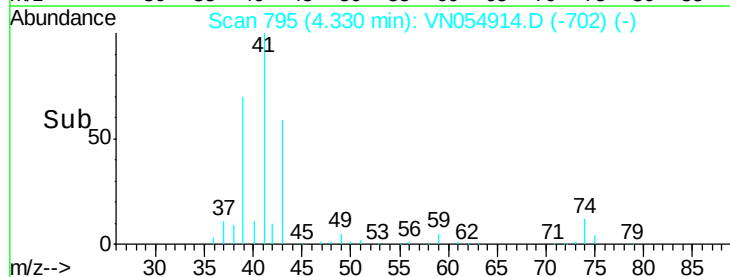
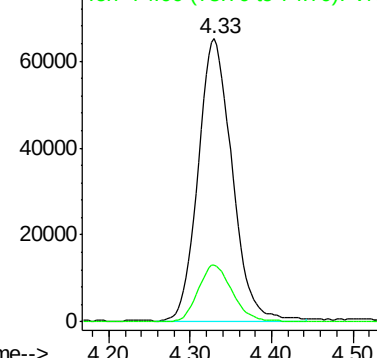
Ion Ratio Lower Upper

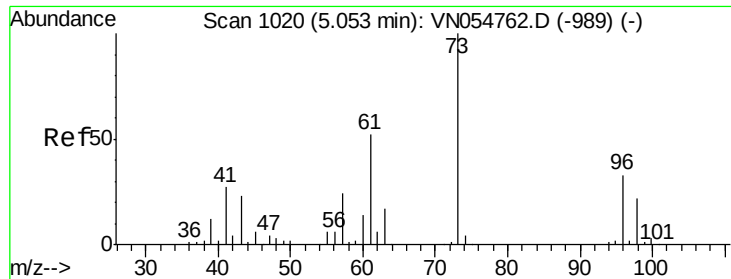
43 100

74 20.4 20.8 31.2#



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 74.00 (73.70 to 74.70): VNO





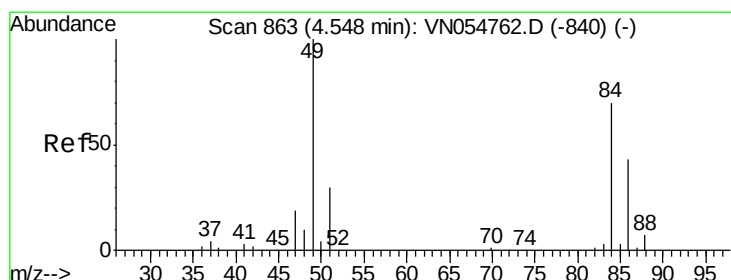
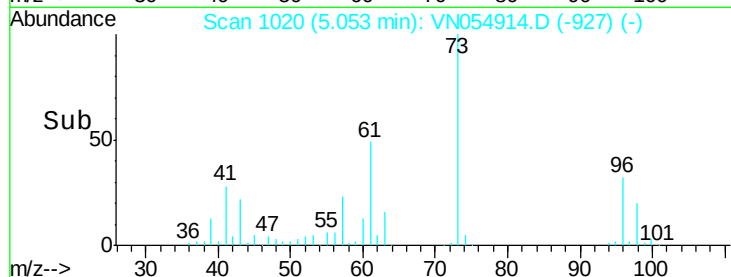
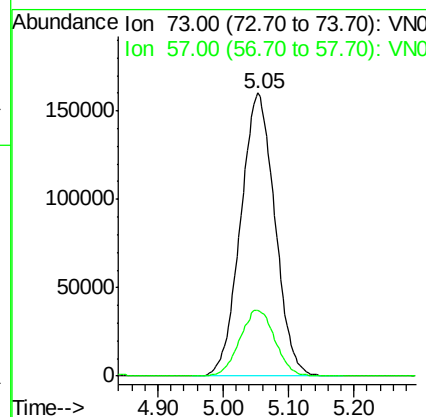
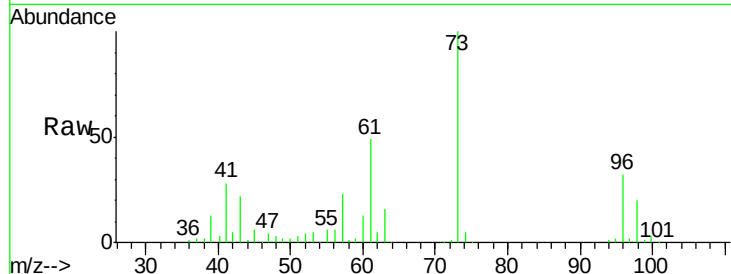
#19
Methyl tert-butyl Ether
Concen: 48.128 ug/l
RT: 5.05 min Scan# 1020
Delta R.T. 0.00 min
Lab File: VN054914.D
Acq: 3 Apr 2019 9:10

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion: 73 Resp: 583319
Ion Ratio Lower Upper
73 100
57 23.1 16.8 25.2

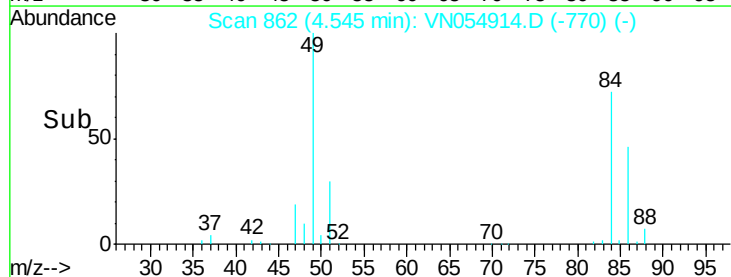
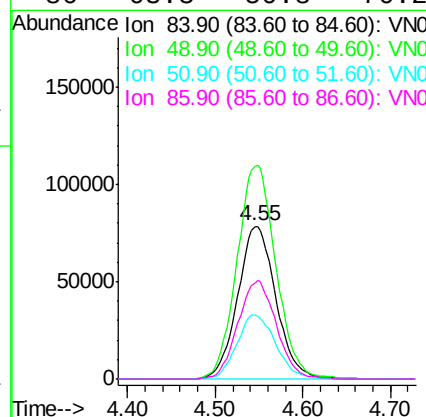
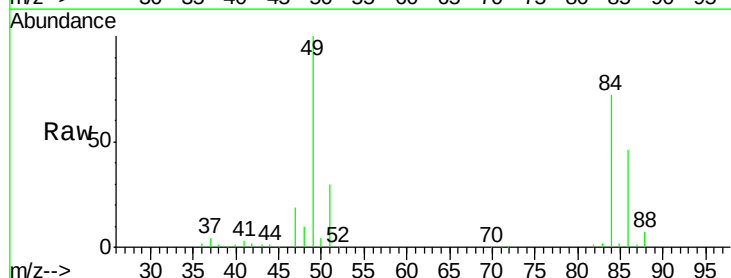
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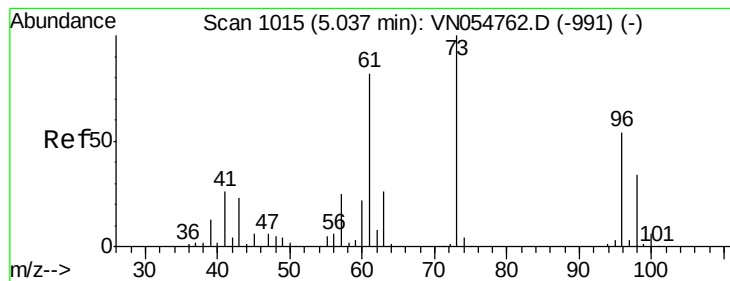
MMDadoda
4/4/2019 9:31:21 AM



#20
Methylene Chloride
Concen: 47.480 ug/l
RT: 4.55 min Scan# 862
Delta R.T. -0.00 min
Lab File: VN054914.D
Acq: 3 Apr 2019 9:10

Tgt Ion: 84 Resp: 237313
Ion Ratio Lower Upper
84 100
49 139.1 89.7 134.5#
51 42.3 28.2 42.4
86 63.3 50.8 76.2





#21

trans-1,2-Dichloroethene

Concen: 47.812 ug/l

RT: 5.04 min Scan# 1015

Delta R.T. 0.00 min

Lab File: VN054914.D

Acq: 3 Apr 2019 9:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 96 Resp: 217598

Ion Ratio Lower Upper

96 100

61 151.5 102.8 154.2

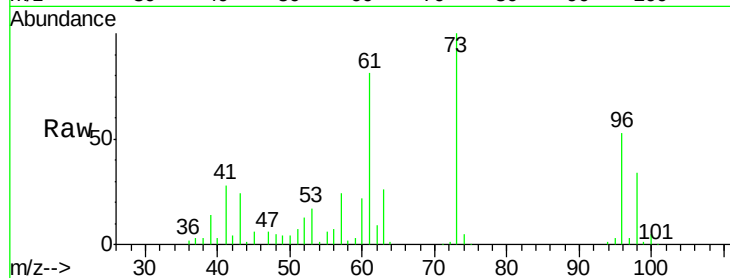
98 63.8 50.0 75.0

Manual Integrations

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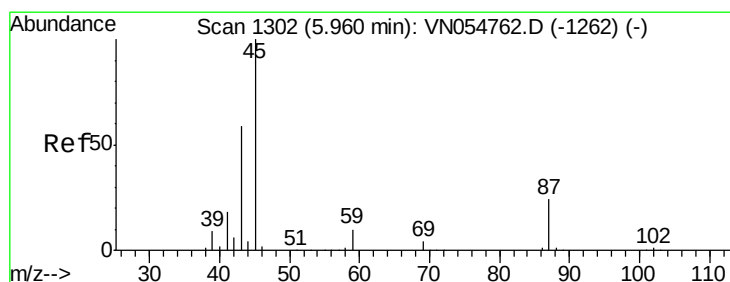
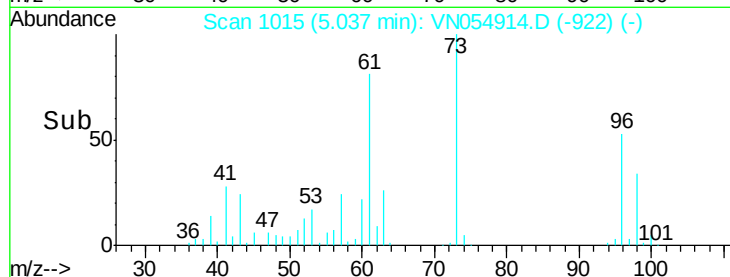
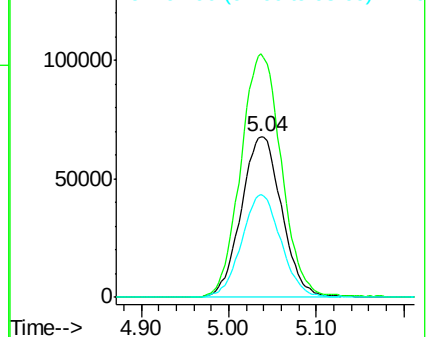
4/4/2019 9:31:21 AM



Abundance Ion 95.90 (95.60 to 96.60): VN054914.D (-922) (-)

Ion 60.90 (60.60 to 61.60): VN054914.D (-922) (-)

Ion 97.90 (97.60 to 98.60): VN054914.D (-922) (-)



#22

Diisopropyl ether

Concen: 49.863 ug/l

RT: 5.96 min Scan# 1301

Delta R.T. -0.00 min

Lab File: VN054914.D

Acq: 3 Apr 2019 9:10

Tgt Ion: 45 Resp: 841684

Ion Ratio Lower Upper

45 100

43 59.9 48.2 72.2

87 23.3 24.9 37.3#

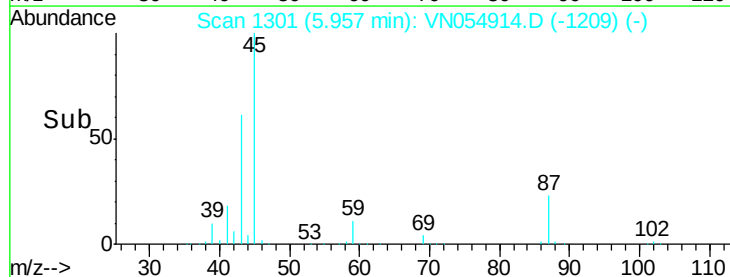
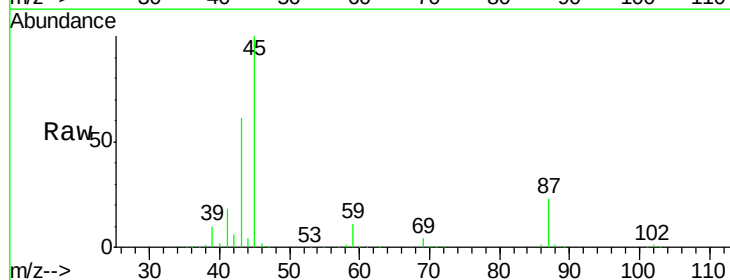
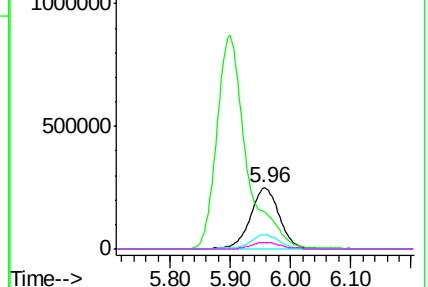
59 10.6 9.5 14.3

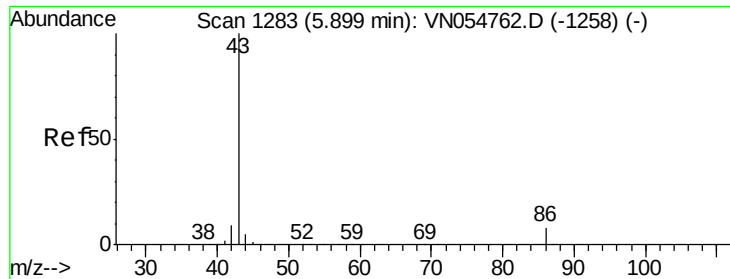
Abundance Ion 45.00 (44.70 to 45.70): VN054914.D (-1209) (-)

Ion 43.00 (42.70 to 43.70): VN054914.D (-1209) (-)

Ion 87.00 (86.70 to 87.70): VN054914.D (-1209) (-)

Ion 59.00 (58.70 to 59.70): VN054914.D (-1209) (-)





#23

Vinyl Acetate

Concen: 251.325 ug/l

RT: 5.90 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VN054914.D

Acq: 3 Apr 2019 9:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 2952249

Ion Ratio Lower Upper

43 100

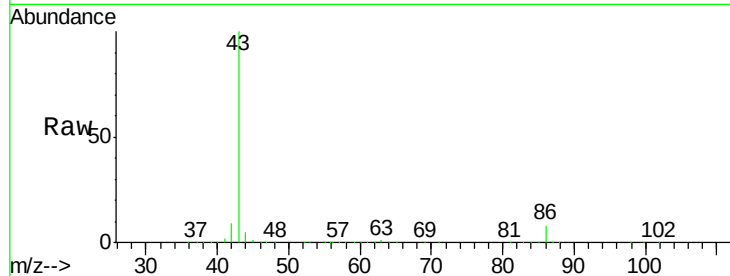
86 8.3 9.1 13.7#

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0

1000000

800000

600000

400000

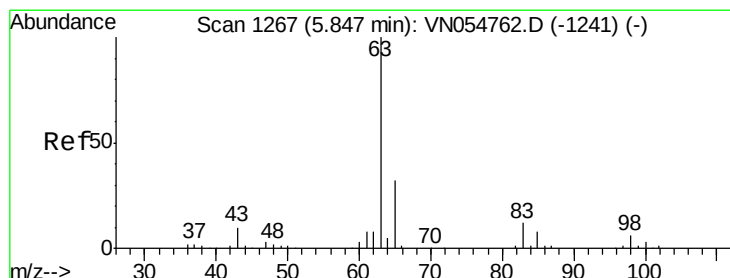
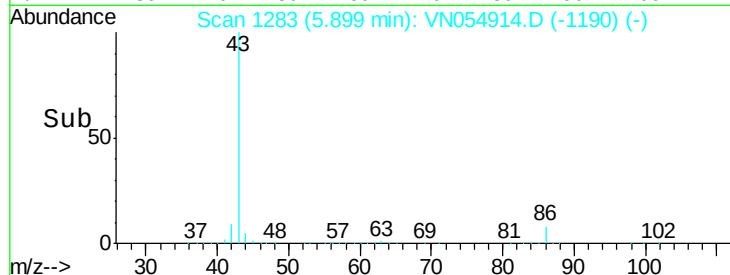
200000

0

5.80

6.00

Time-->



#24

1,1-Dichloroethane

Concen: 49.882 ug/l

RT: 5.85 min Scan# 1268

Delta R.T. 0.00 min

Lab File: VN054914.D

Acq: 3 Apr 2019 9:10

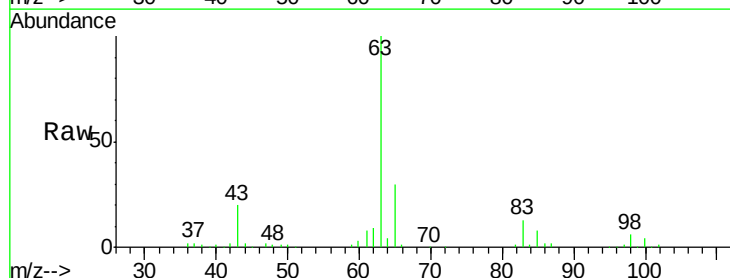
Tgt Ion: 63 Resp: 449155

Ion Ratio Lower Upper

63 100

98 5.9 3.5 10.5

100 3.9 2.0 6.0



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0

150000

100000

50000

0

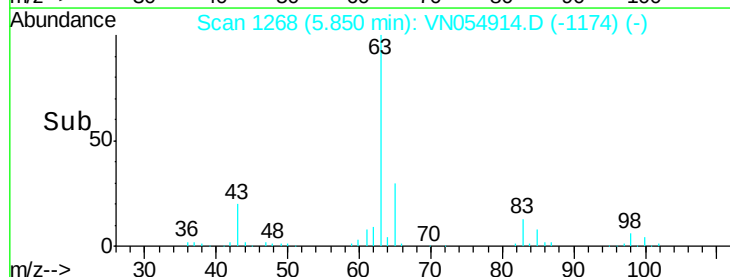
5.70

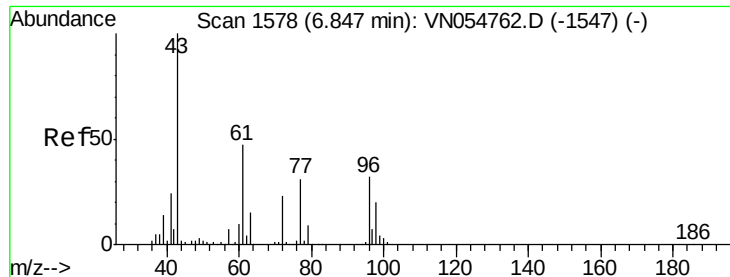
5.80

5.90

6.00

Time-->





#25

2-Butanone

Concen: 276.585 ug/l

RT: 6.84 min Scan# 1577

Delta R.T. -0.00 min

Lab File: VN054914.D

Acq: 3 Apr 2019 9:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 579317

Ion Ratio Lower Upper

43 100

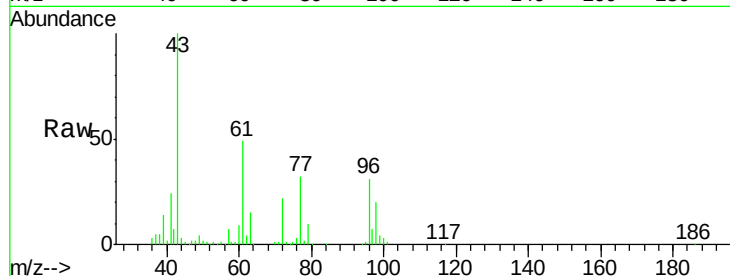
72 22.0 23.0 34.6#

Manual Integrations

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4/4/2019 9:31:21 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

6.84

200000

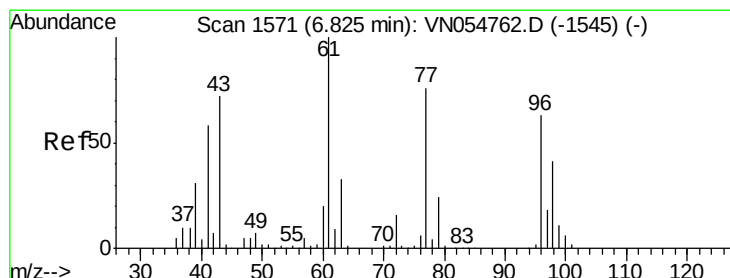
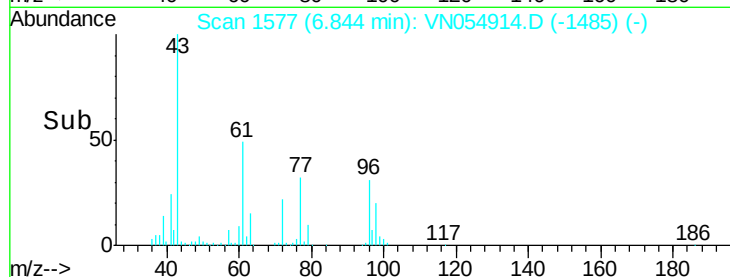
150000

100000

50000

0

Time-->



#26

2,2-Dichloropropane

Concen: 51.761 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. 0.00 min

Lab File: VN054914.D

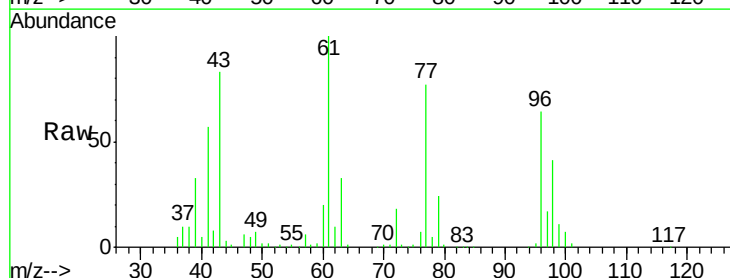
Acq: 3 Apr 2019 9:10

Tgt Ion: 77 Resp: 326665

Ion Ratio Lower Upper

77 100

97 22.5 11.9 35.9



Abundance Ion 76.90 (76.60 to 77.60): VN0

Ion 96.90 (96.60 to 97.60): VN0

6.82

120000

100000

80000

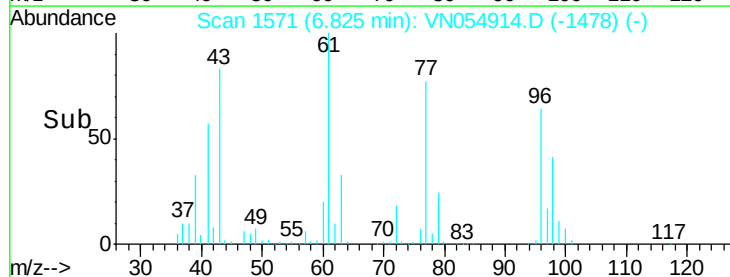
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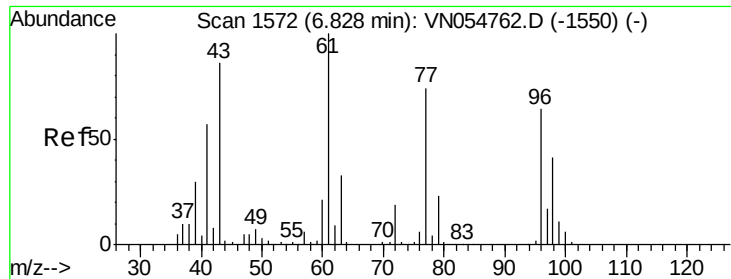
40000

20000

0

Time-->





#27

cis-1,2-Dichloroethene

Concen: 49.238 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VN054914.D

Acq: 3 Apr 2019 9:10

Instrument :

MSVOA_N

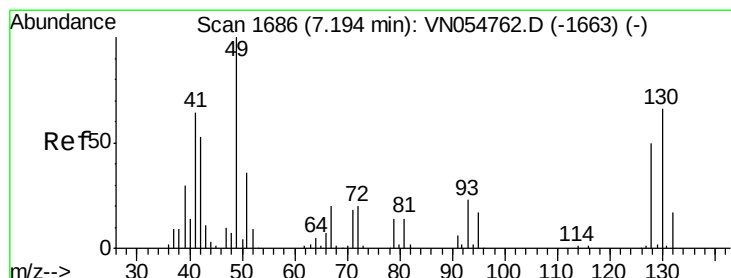
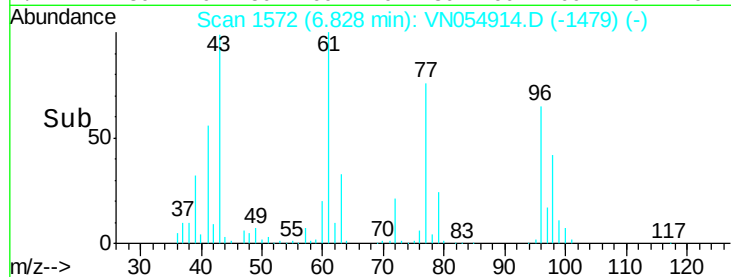
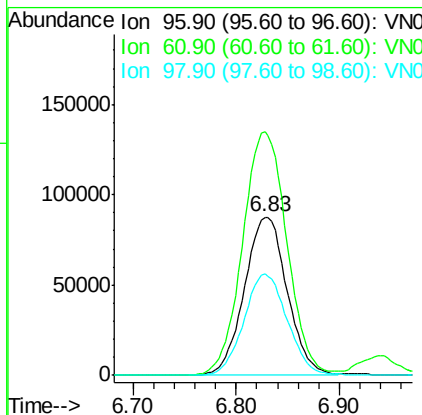
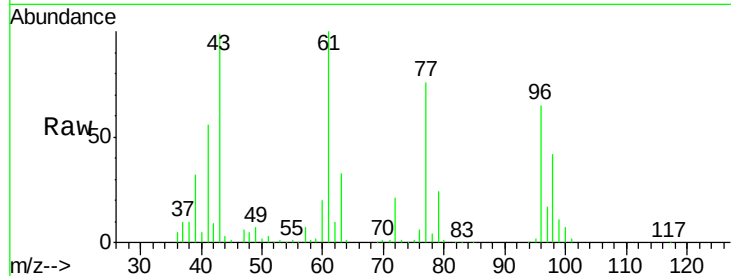
ClientSampled :

VSTDCCC050

Tot Ion:	96	Resp:	253144
Ion	Ratio	Lower	Upper
96	100		
61	158.9	0.0	273.0
98	64.8	0.0	130.6

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4/4/2019 9:31:21 AM



#28

Bromochloromethane

Concen: 49.965 ug/l

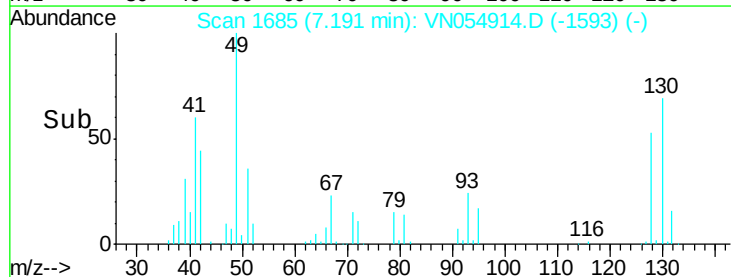
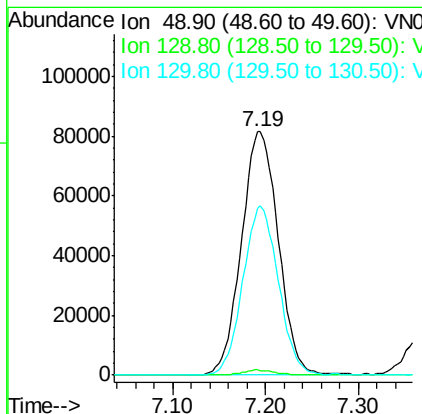
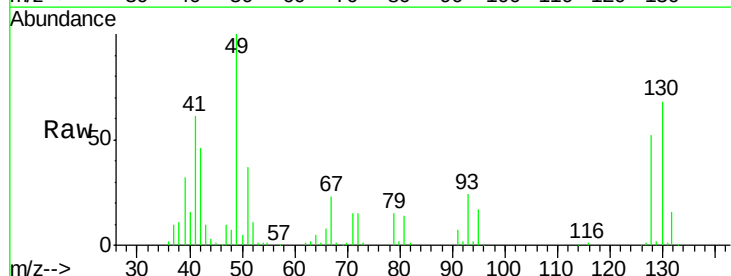
RT: 7.19 min Scan# 1685

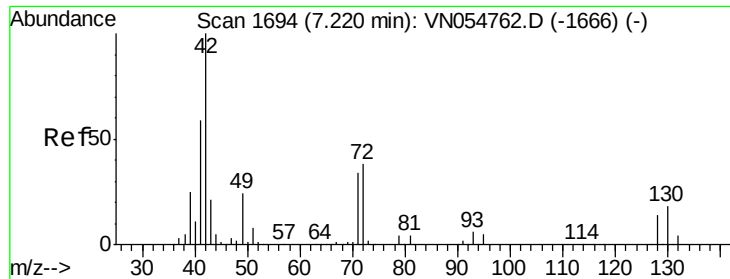
Delta R.T. -0.00 min

Lab File: VN054914.D

Acq: 3 Apr 2019 9:10

Tgt Ion:	49	Resp:	224966
Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	4.6
130	66.8	76.7	115.1#





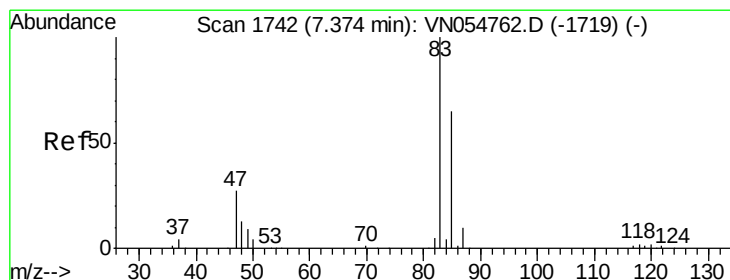
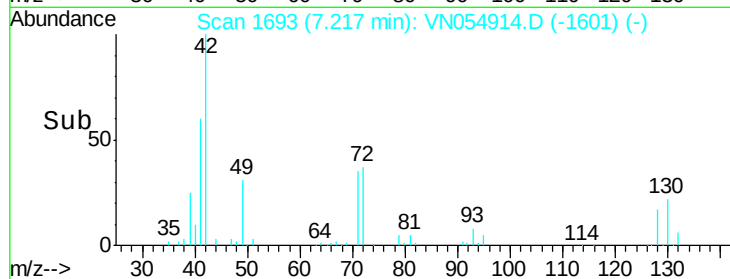
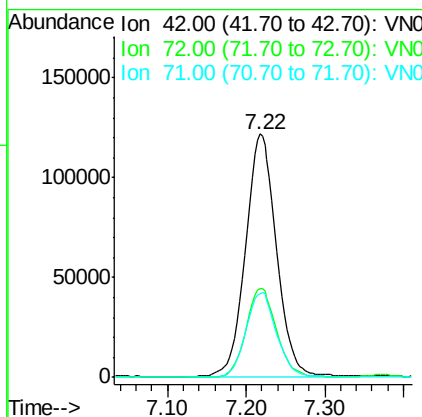
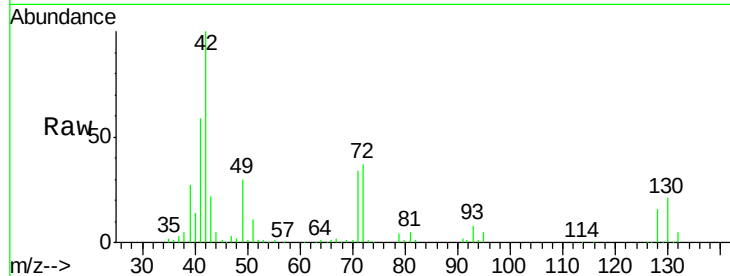
#29
Tetrahydrofuran
Concen: 232.266 ug/l
RT: 7.22 min Scan# 1693
Delta R.T. -0.00 min
Lab File: VN054914.D
Acq: 3 Apr 2019 9:10

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
42	100		
72	36.2	37.8	56.6#
71	34.9	36.2	54.2#

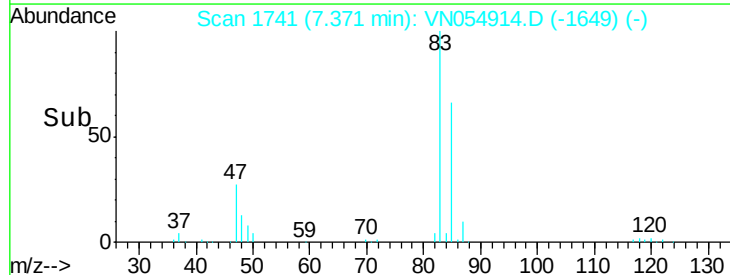
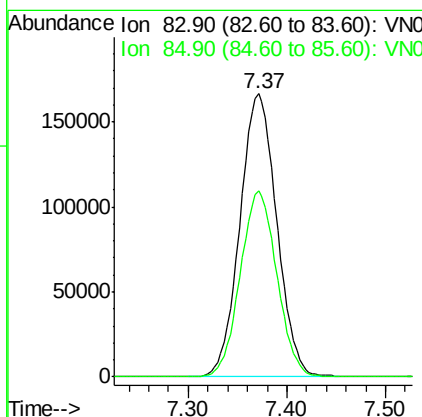
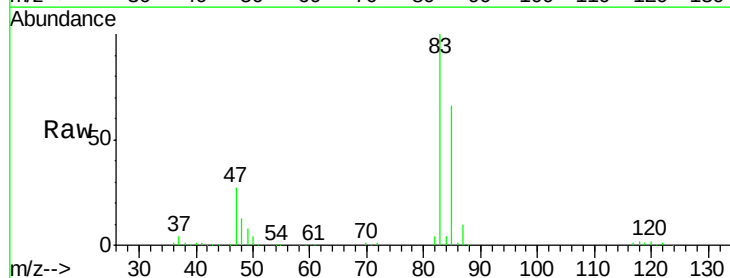
Manual Integrations
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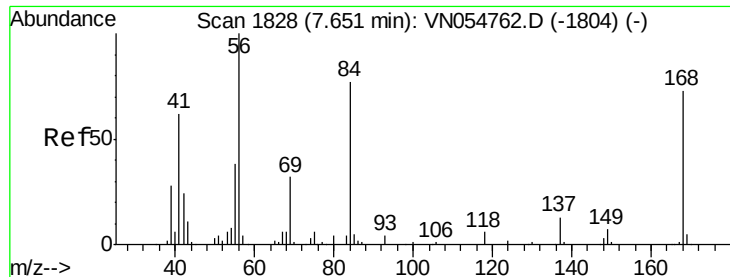
MMDadoda
4/4/2019 9:31:21 AM



#30
Chloroform
Concen: 50.114 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VN054914.D
Acq: 3 Apr 2019 9:10

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.7	52.2	78.4





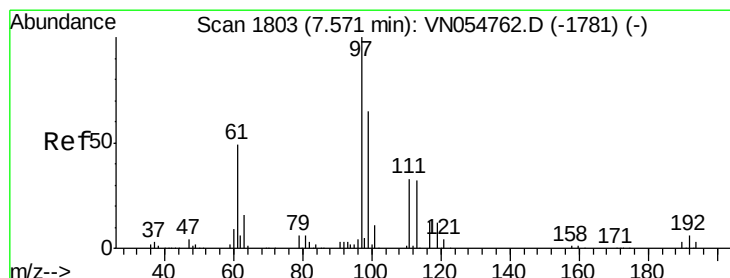
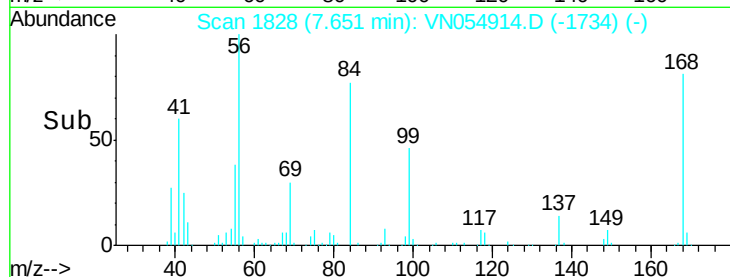
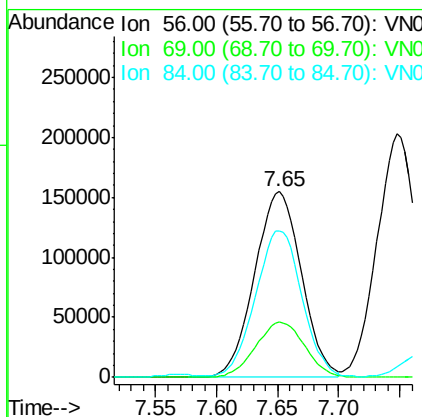
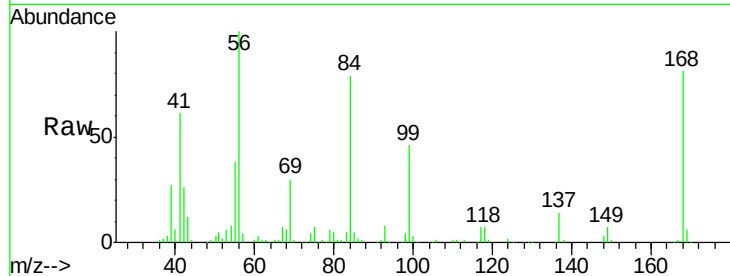
#31
Cyclohexane
Concen: 50.269 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. 0.00 min
Lab File: VN054914.D
Acq: 3 Apr 2019 9:10

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
56	100		
69	29.9	27.8	41.6
84	77.7	74.6	111.8

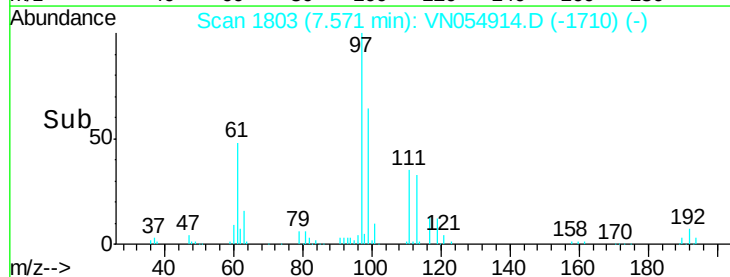
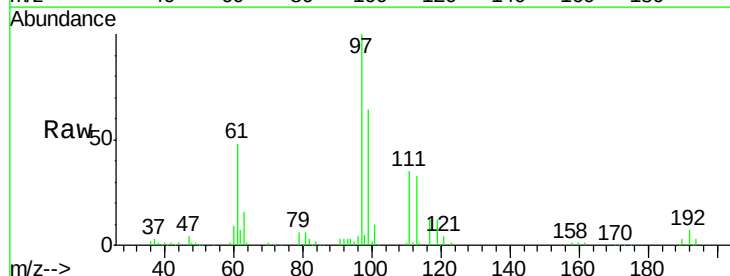
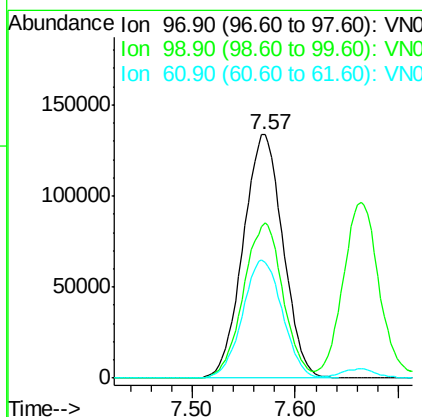
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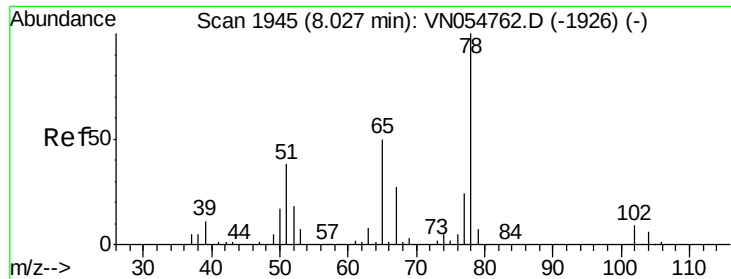
MMDadoda
4/4/2019 9:31:21 AM



#32
1,1,1-Trichloroethane
Concen: 50.410 ug/l
RT: 7.57 min Scan# 1803
Delta R.T. 0.00 min
Lab File: VN054914.D
Acq: 3 Apr 2019 9:10

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.4	51.5	77.3
61	48.4	33.6	50.4





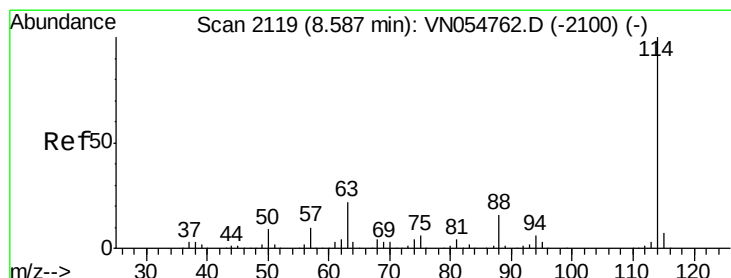
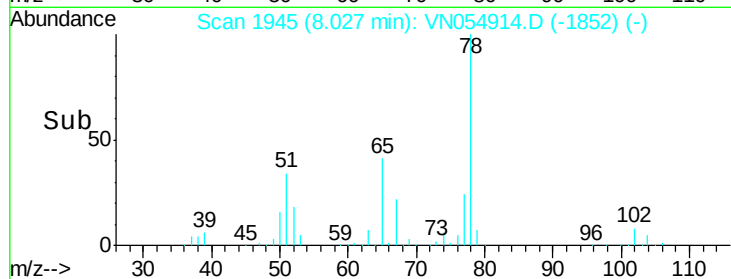
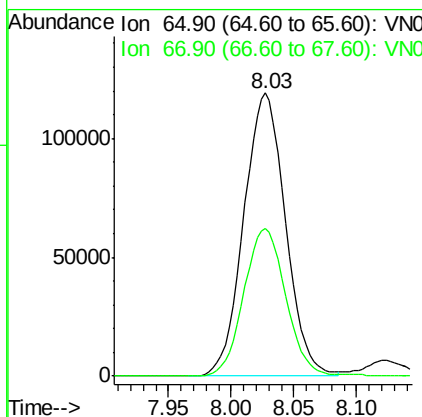
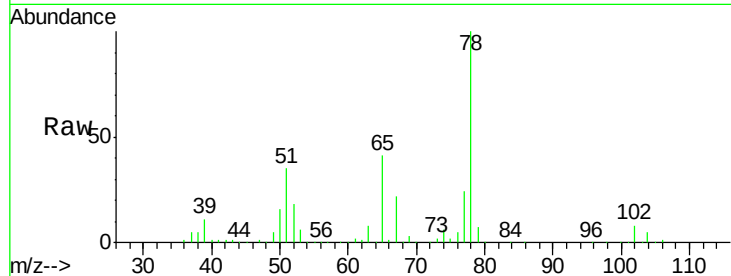
#33
 1,2-Dichloroethane-d4
 Concen: 46.444 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN054914.D
 Acq: 3 Apr 2019 9:10

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
65	100	275972		
67	52.7	0.0	104.6	

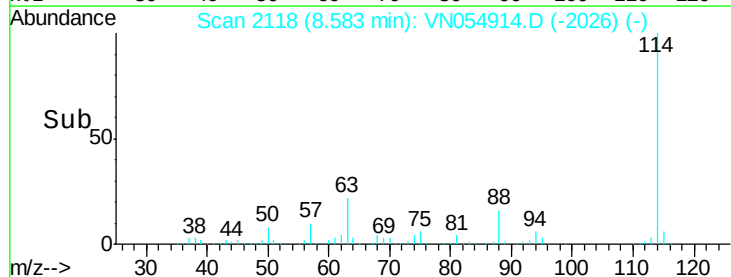
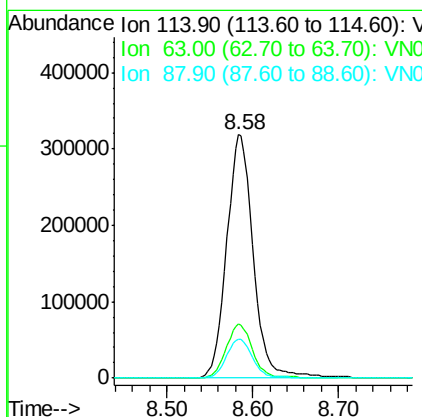
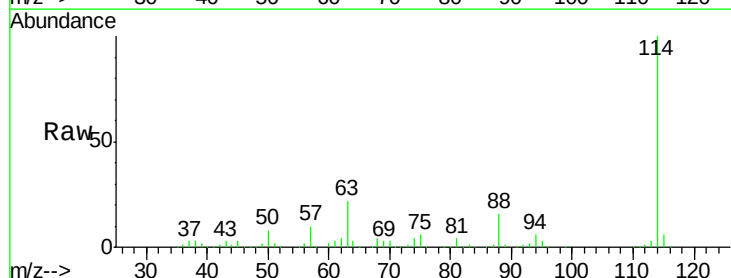
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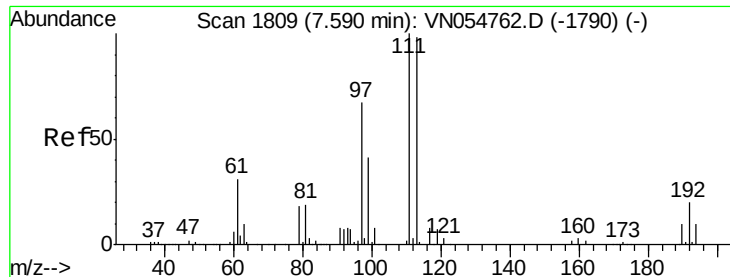
MMDadoda
 4/4/2019 9:31:21 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN054914.D
 Acq: 3 Apr 2019 9:10

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	682826		
63	22.1	0.0	35.2	
88	16.1	0.0	30.2	





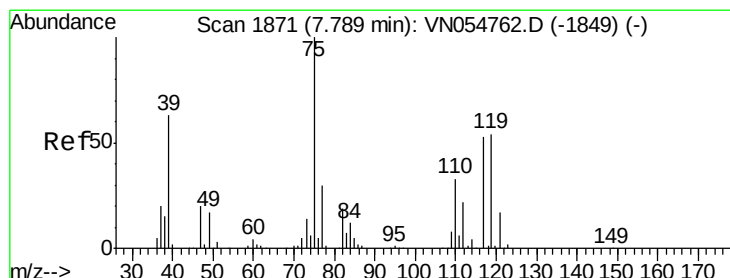
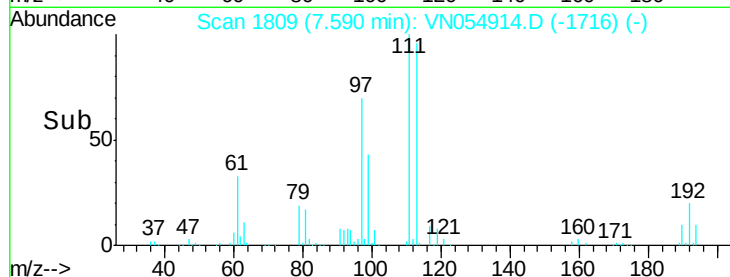
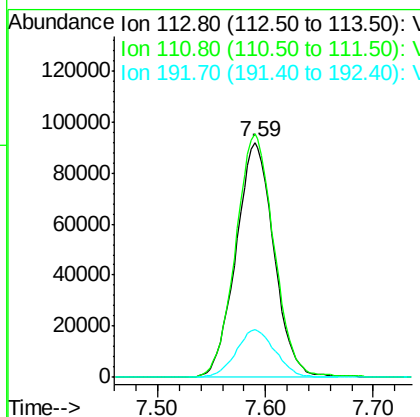
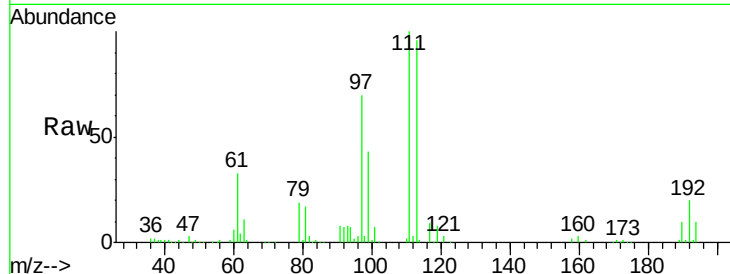
#35
 Dibromofluoromethane
 Concen: 49.409 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN054914.D
 Acq: 3 Apr 2019 9:10

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	105.2	82.2	123.4	
192	20.8	19.2	28.8	

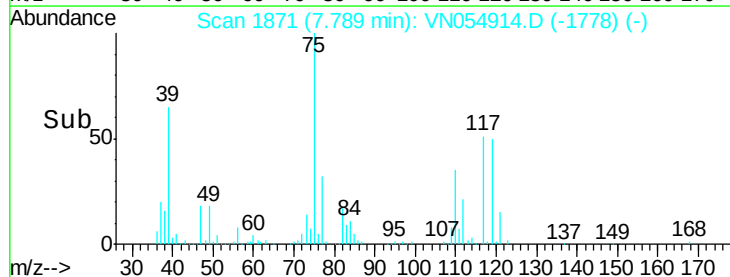
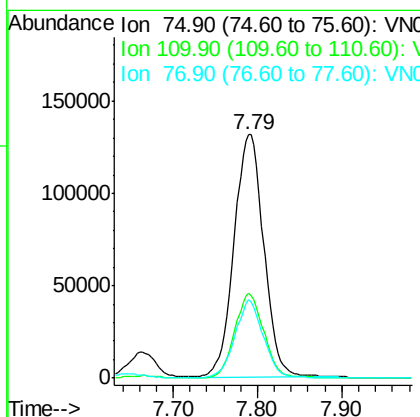
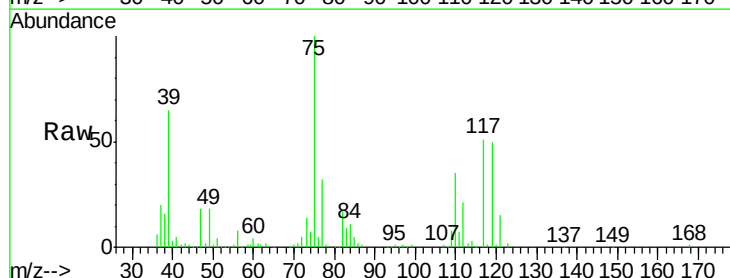
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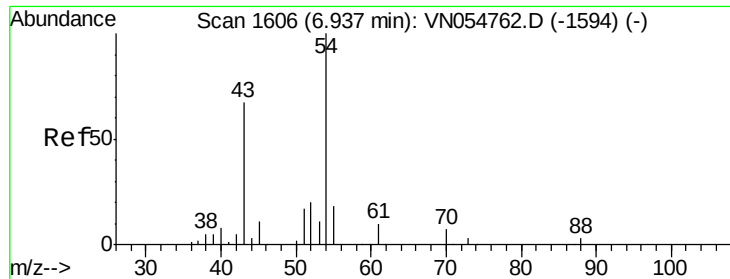
MMDadoda
 4/4/2019 9:31:21 AM



#36
 1,1-Dichloropropene
 Concen: 50.809 ug/l
 RT: 7.79 min Scan# 1871
 Delta R.T. 0.00 min
 Lab File: VN054914.D
 Acq: 3 Apr 2019 9:10

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
110	34.1	19.1	57.5	
77	30.7	25.0	37.4	





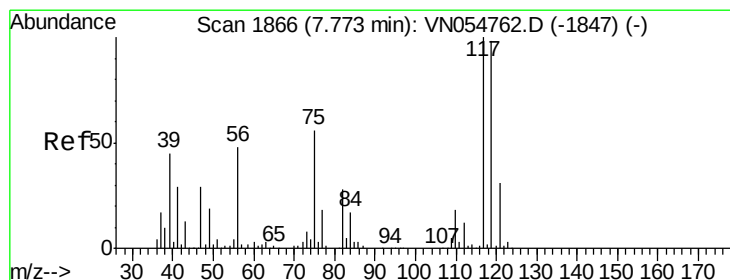
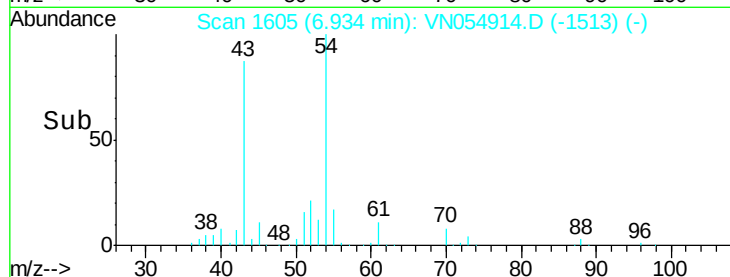
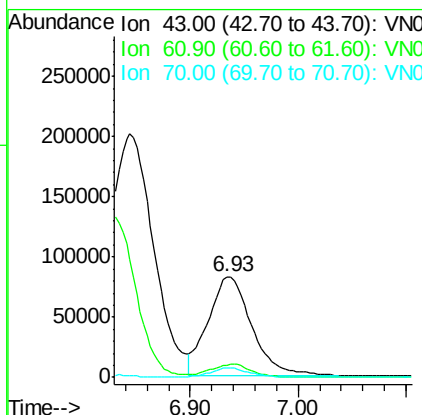
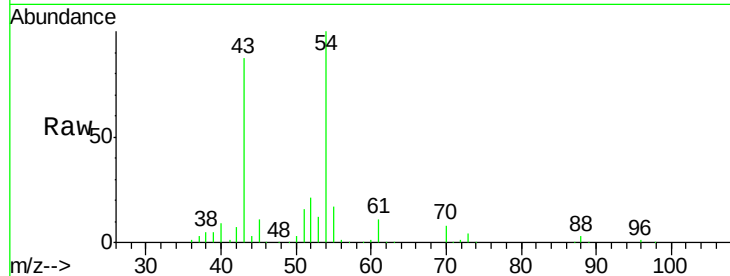
#37
Ethyl Acetate
Concen: 49.476 ug/l
RT: 6.93 min Scan# 1605
Delta R.T. -0.00 min
Lab File: VN054914.D
Acq: 3 Apr 2019 9:10

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	12.2	11.8	17.6
70	8.8	8.4	12.6

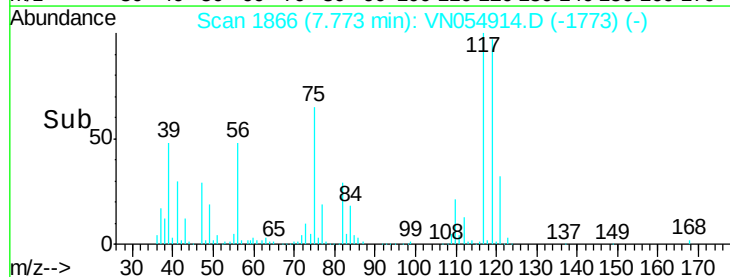
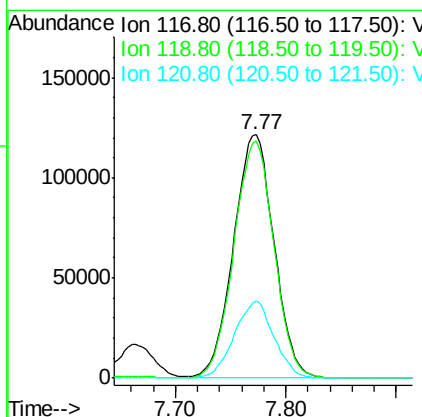
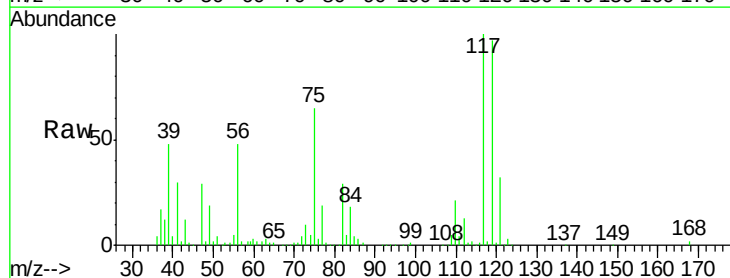
Manual Integrations
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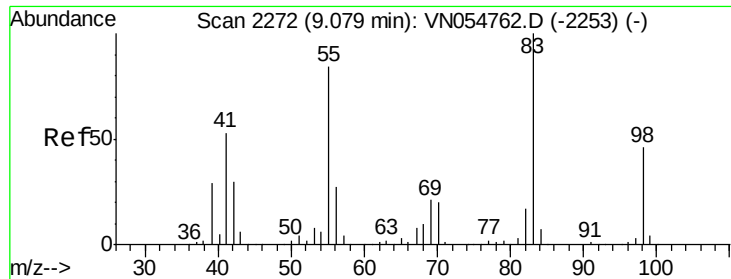
MMDadoda
4/4/2019 9:31:21 AM



#38
Carbon Tetrachloride
Concen: 50.180 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. 0.00 min
Lab File: VN054914.D
Acq: 3 Apr 2019 9:10

Tgt Ion	Ratio	Lower	Upper
117	100		
119	97.1	76.3	114.5
121	31.6	24.6	36.8





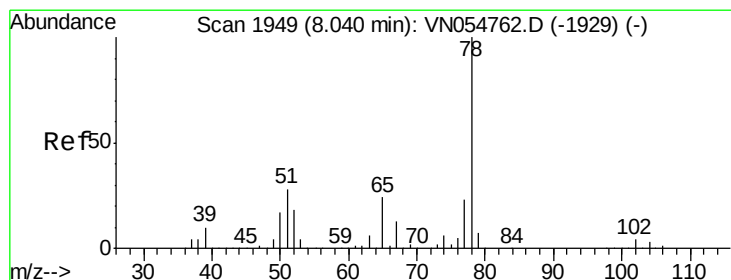
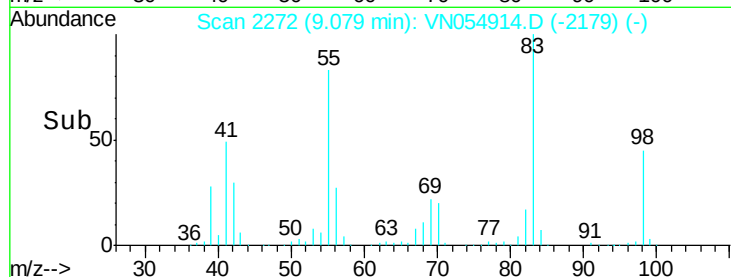
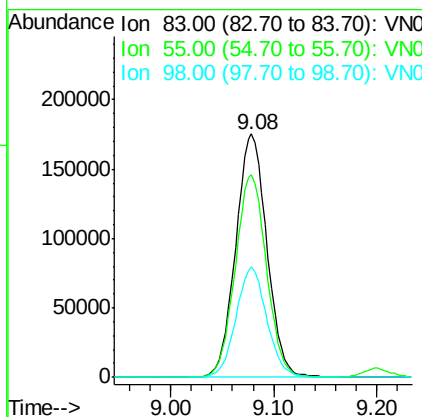
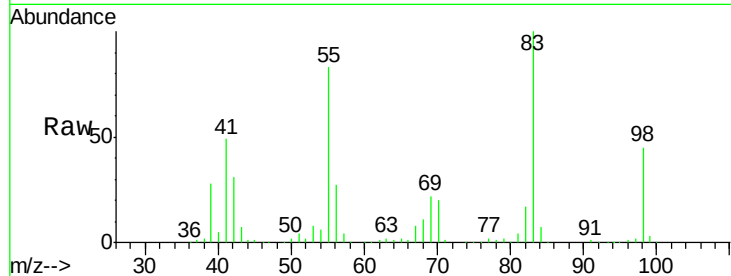
#39
Methylvlcyclohexane
Concen: 52.790 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. 0.00 min
Lab File: VN054914.D
Acq: 3 Apr 2019 9:10

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
83	100		
55	83.0	56.6	84.8
98	45.3	38.4	57.6

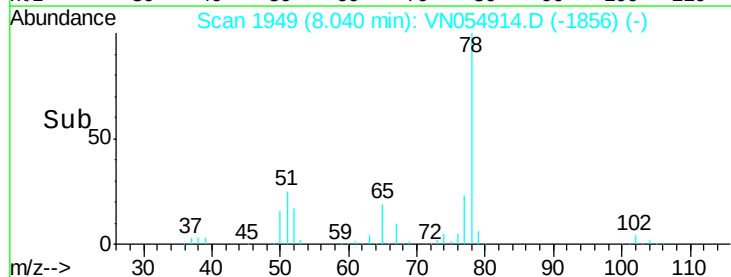
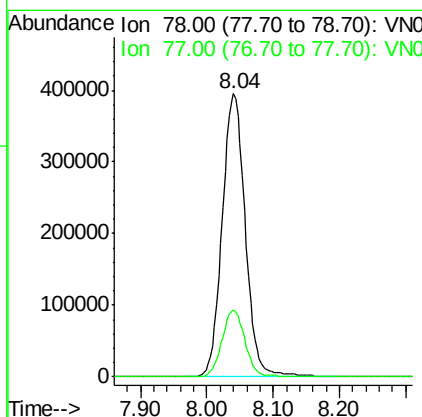
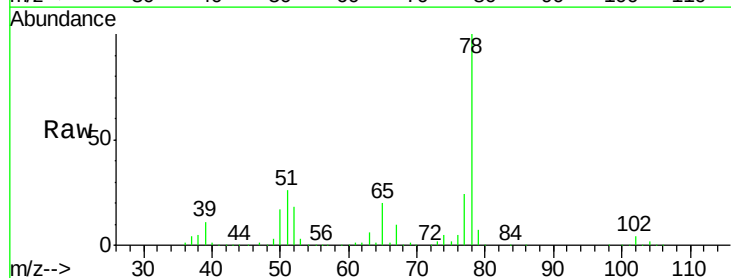
Manual Integrations
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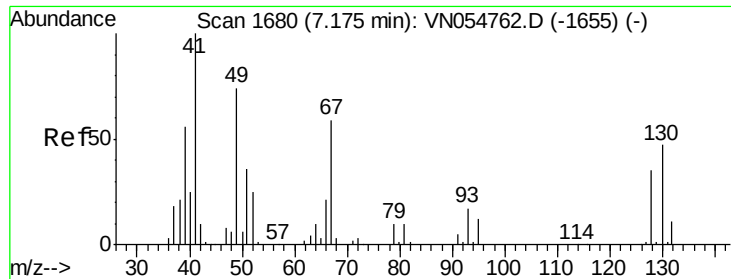
MMDadoda
4/4/2019 9:31:21 AM



#40
Benzene
Concen: 52.669 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. 0.00 min
Lab File: VN054914.D
Acq: 3 Apr 2019 9:10

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.6	19.1	28.7





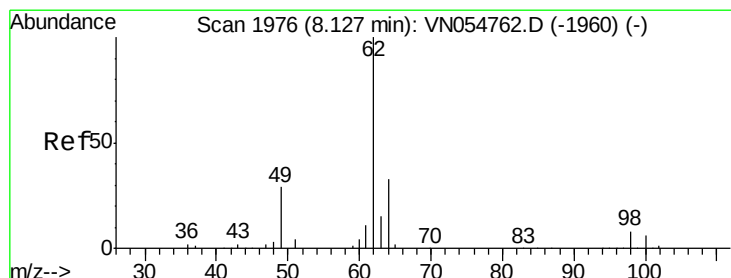
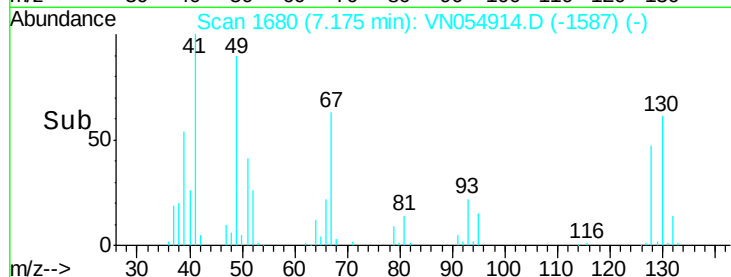
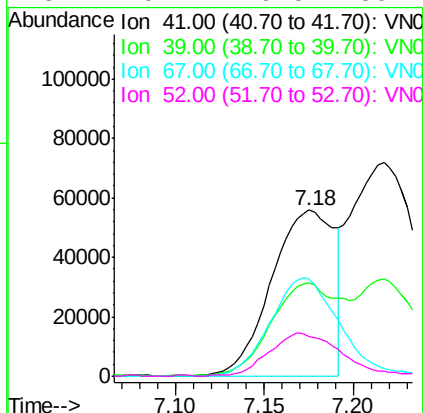
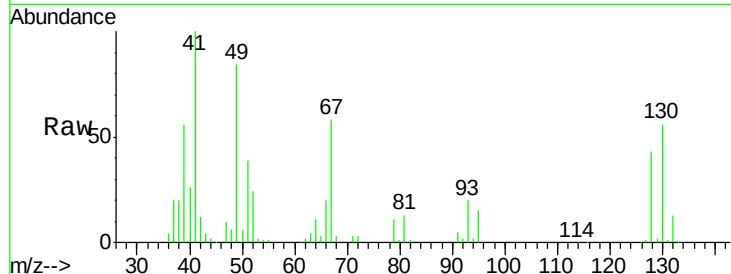
#41
Methacrylonitrile
Concen: 52.058 ug/l
RT: 7.18 min Scan# 1680
Delta R.T. 0.00 min
Lab File: VN054914.D
Acq: 3 Apr 2019 9:10

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	62.1	46.8	70.2	
67	66.0	67.0	100.4	
52	29.4	26.5	39.7	

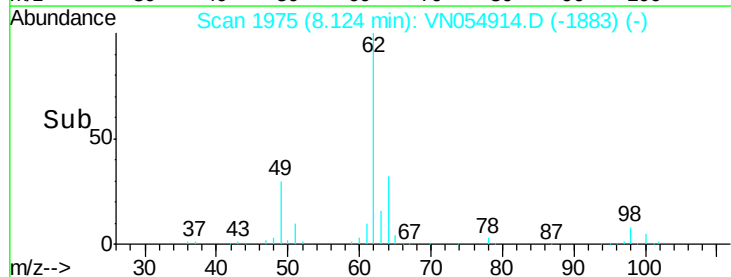
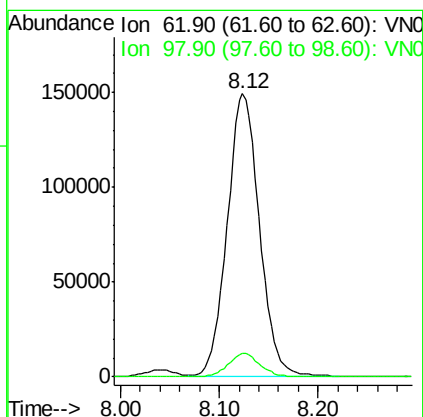
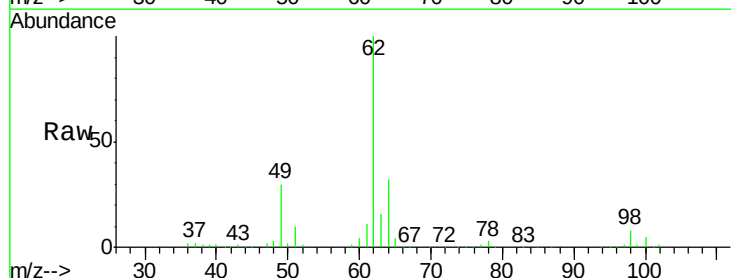
Manual Integrations
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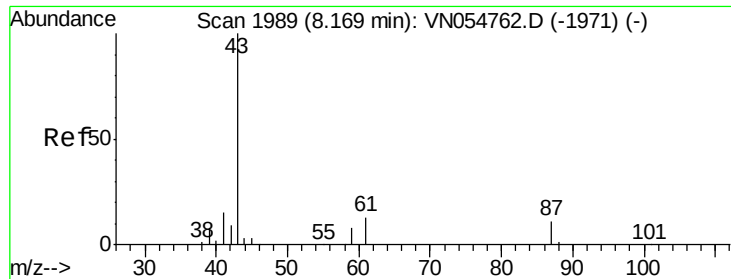
MMDadoda
4/4/2019 9:31:21 AM



#42
1,2-Dichloroethane
Concen: 52.048 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. -0.00 min
Lab File: VN054914.D
Acq: 3 Apr 2019 9:10

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	8.2	0.0	18.4	





#43

Isopropyl Acetate

Concen: 51.627 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. -0.00 min

Lab File: VN054914.D

Acq: 3 Apr 2019 9:10

Instrument :

MSVOA_N

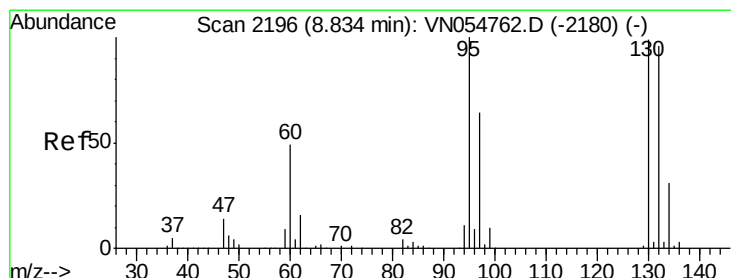
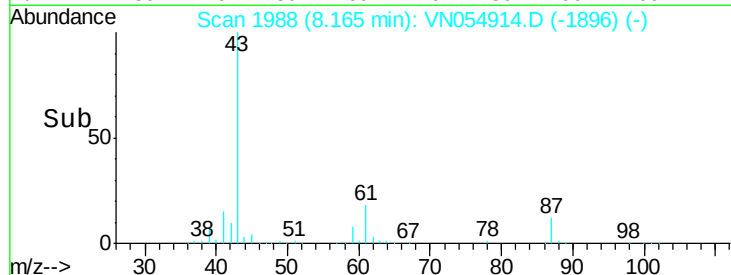
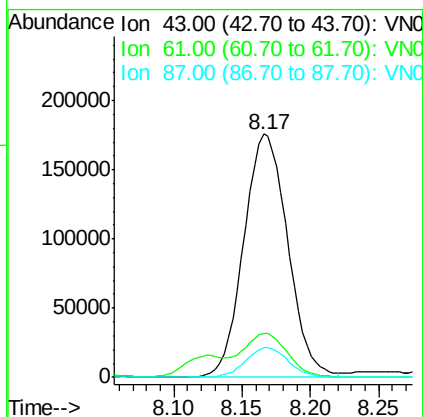
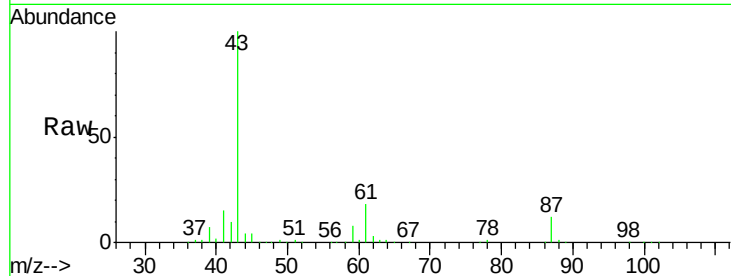
ClientSampleId :

VSTDCCC050

Tot Ion:	43	Resp:	391406
Ion Ratio	Lower	Upper	
43	100		
61	17.4	15.8	23.8
87	12.0	12.0	18.0

Manual Integrations
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#44

Trichloroethene

Concen: 52.469 ug/l

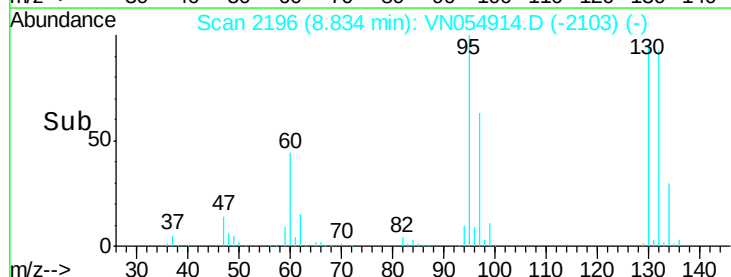
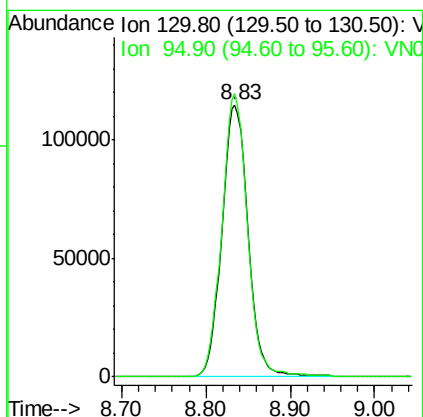
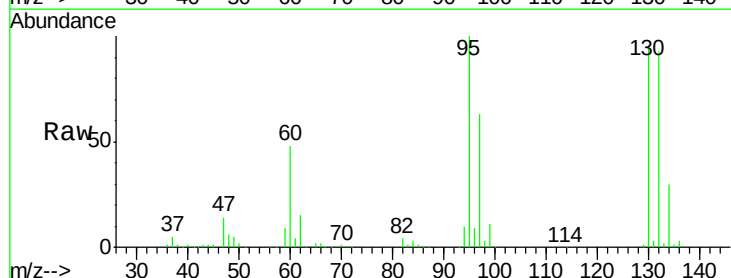
RT: 8.83 min Scan# 2196

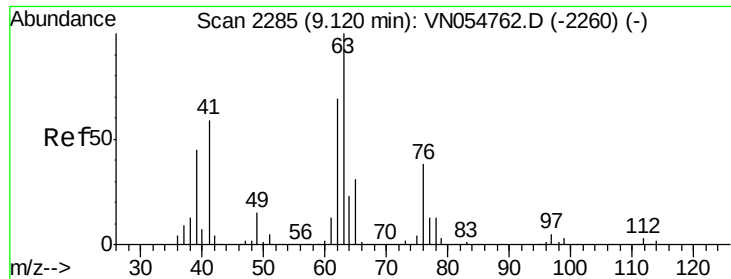
Delta R.T. 0.00 min

Lab File: VN054914.D

Acq: 3 Apr 2019 9:10

Tgt Ion:	130	Resp:	247968
Ion Ratio	Lower	Upper	
130	100		
95	103.9	0.0	185.2





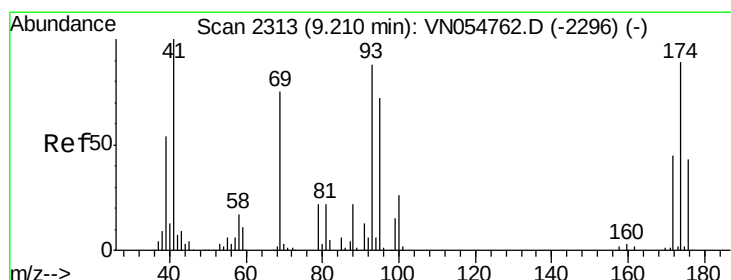
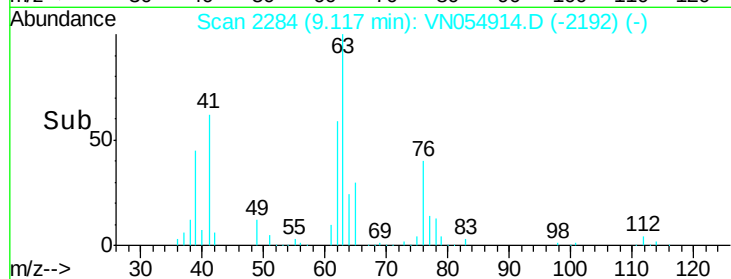
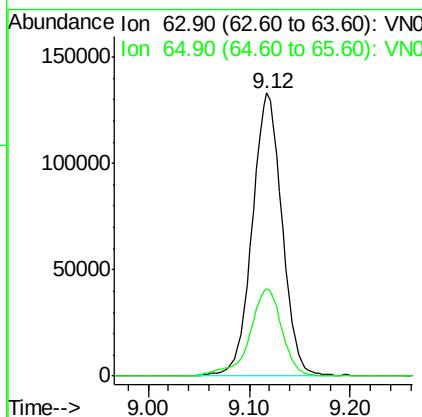
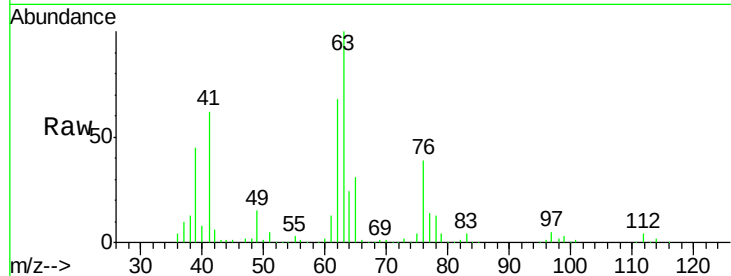
#45
 1,2-Dichloropropane
 Concen: 52.346 ug/l
 RT: 9.12 min Scan# 2284
 Delta R.T. -0.00 min
 Lab File: VN054914.D
 Acq: 3 Apr 2019 9:10

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDCCC050

Tot Ion: 63 Resp: 271738
 Ion Ratio Lower Upper
 63 100
 65 30.7 25.0 37.6

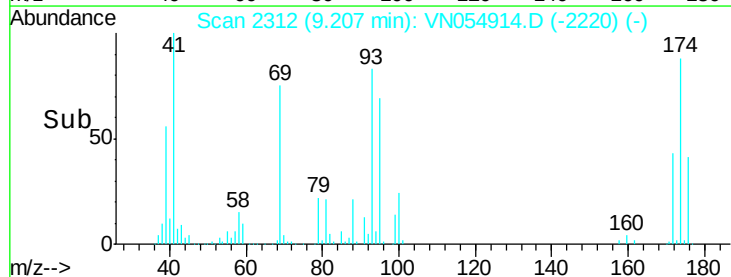
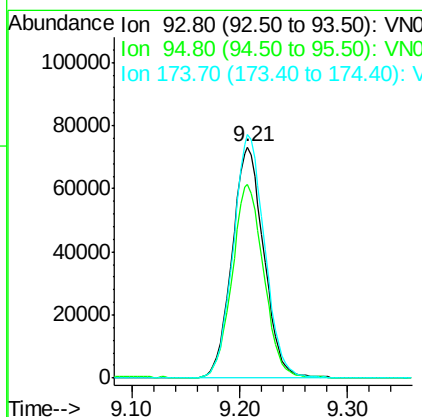
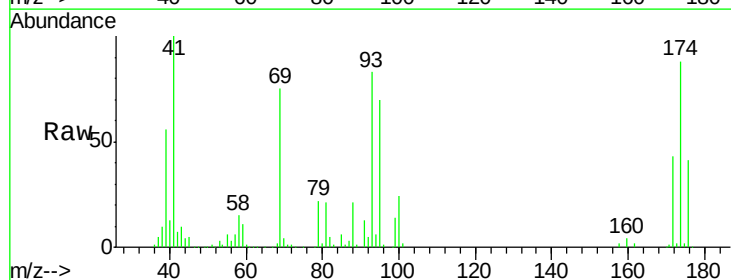
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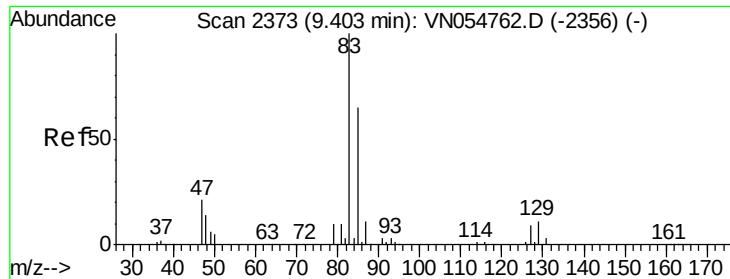
MMDadoda
 4/4/2019 9:31:21 AM



#46
 Dibromomethane
 Concen: 51.418 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. -0.00 min
 Lab File: VN054914.D
 Acq: 3 Apr 2019 9:10

Tgt Ion: 93 Resp: 150155
 Ion Ratio Lower Upper
 93 100
 95 83.5 66.7 100.1
 174 104.5 98.5 147.7





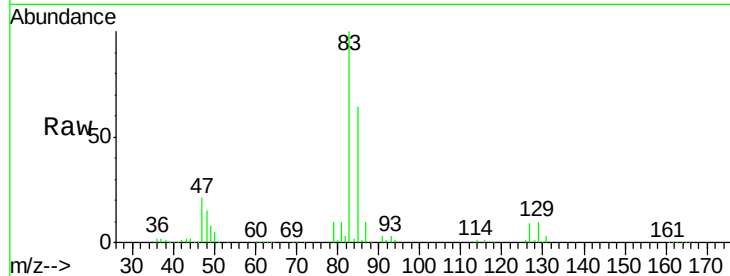
#47
Bromodichloromethane
Concen: 55.304 ug/l
RT: 9.40 min Scan# 2372
Delta R.T. -0.00 min
Lab File: VN054914.D
Acq: 3 Apr 2019 9:10

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

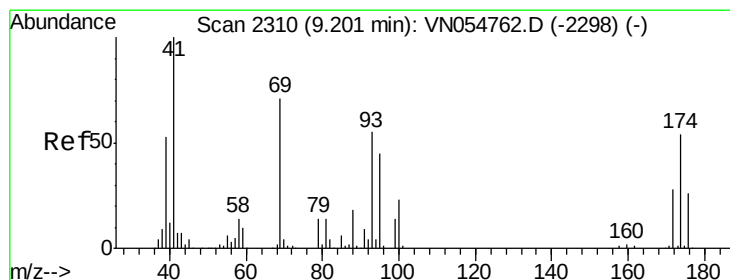
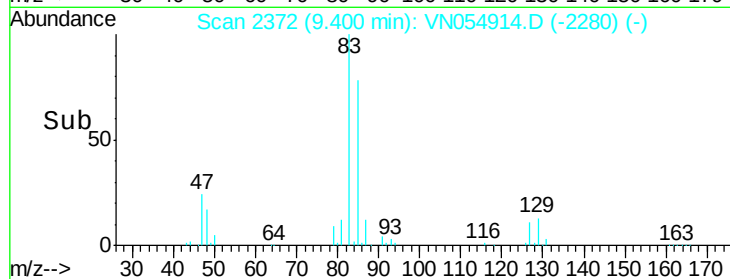
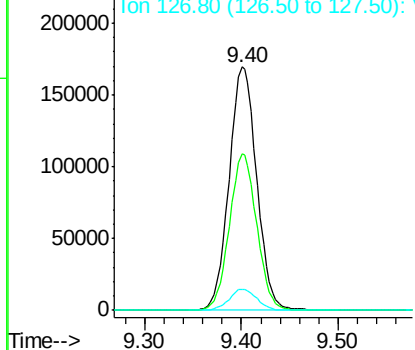
Tot Ion	83	Resp	335647
Ion Ratio	100		
83	100		
85	64.4	52.8	79.2
127	8.8	7.4	11.2

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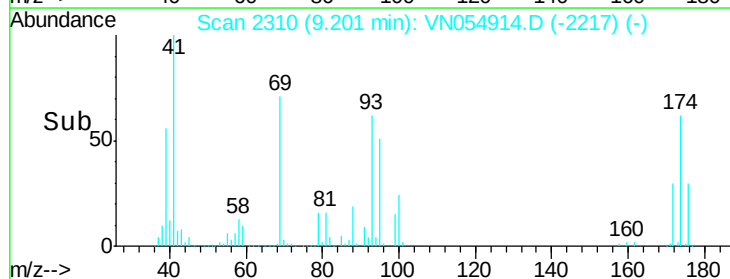
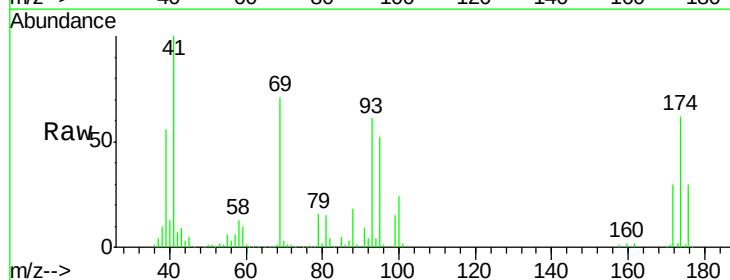
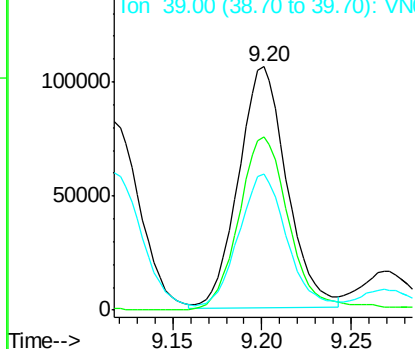
Abundance Ion 82.90 (82.60 to 83.60): VN054914.D (-2280) (-)
Ion 84.90 (84.60 to 85.60): VN054914.D (-2280) (-)
Ion 126.80 (126.50 to 127.50): VN054914.D (-2280) (-)

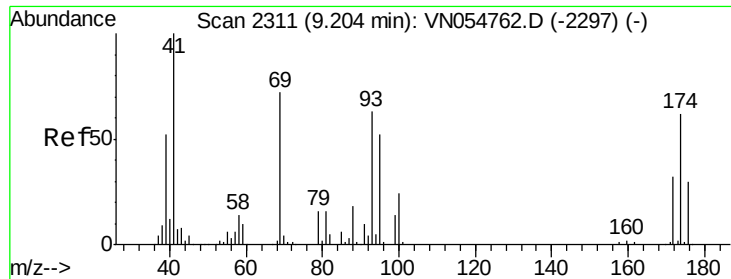


#48
Methyl methacrylate
Concen: 48.420 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN054914.D
Acq: 3 Apr 2019 9:10

Tgt Ion	41	Resp	198989
Ion Ratio	100		
41	100		
69	76.9	72.6	108.8
39	56.8	47.5	71.3

Abundance Ion 41.00 (40.70 to 41.70): VN054914.D (-2217) (-)
Ion 69.00 (68.70 to 69.70): VN054914.D (-2217) (-)
Ion 39.00 (38.70 to 39.70): VN054914.D (-2217) (-)





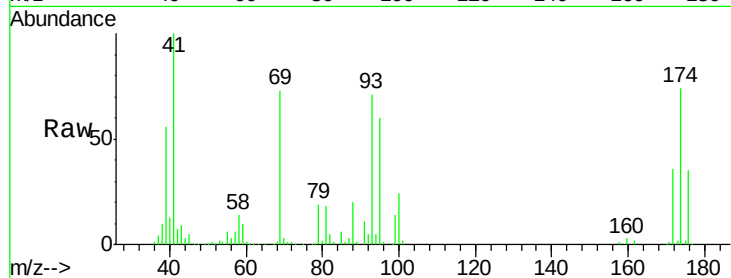
#49
1,4-Dioxane
Concen: 1024.544 ug/l
RT: 9.20 min Scan# 2311
Delta R.T. 0.00 min
Lab File: VN054914.D
Acq: 3 Apr 2019 9:10

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	88	Resp	41778
Ion	Ratio	Lower	Upper
88	100		
43	39.3	24.1	36.1#
58	73.7	50.8	76.2

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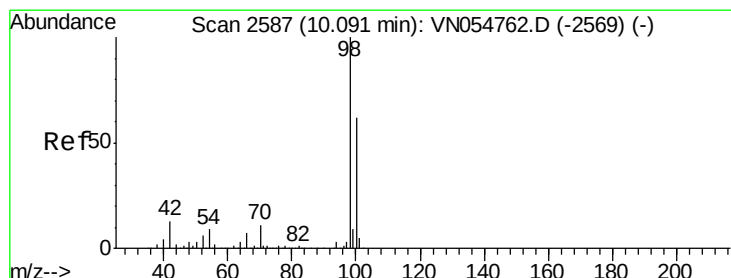
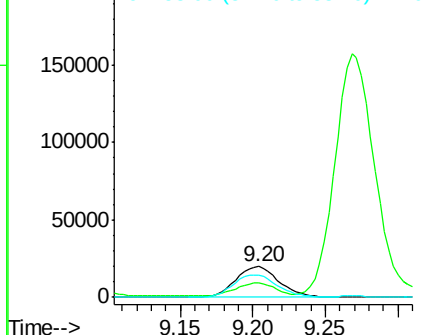
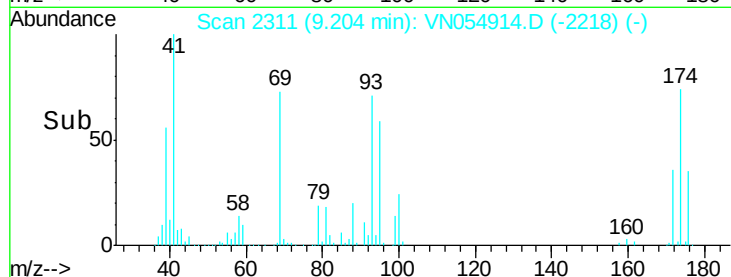
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Abundance Ion 88.00 (87.70 to 88.70): VN054914.D (-2218) (-)

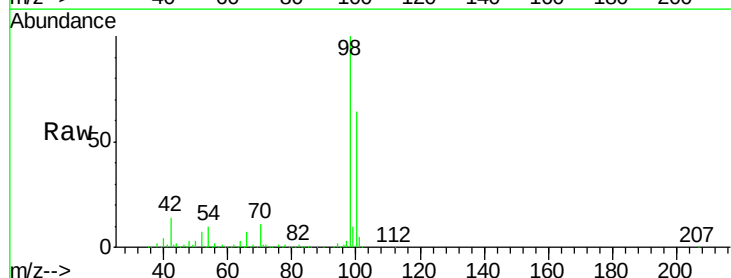
Ion 43.00 (42.70 to 43.70): VN054914.D (-2218) (-)

Ion 58.00 (57.70 to 58.70): VN054914.D (-2218) (-)



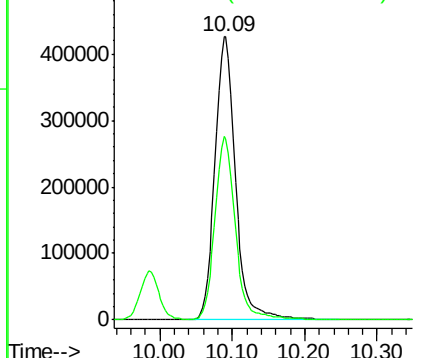
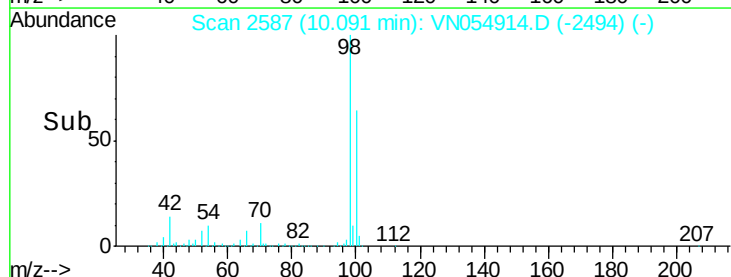
#50
Toluene-d8
Concen: 49.837 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN054914.D
Acq: 3 Apr 2019 9:10

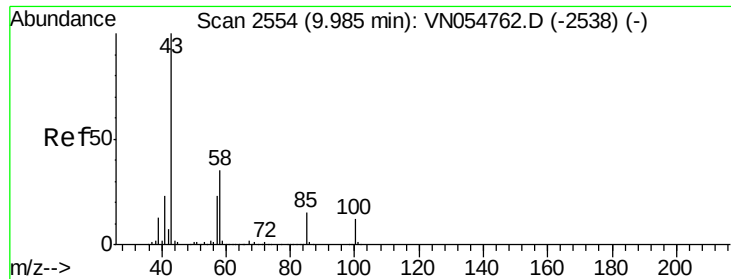
Tgt Ion	98	Resp	843479
Ion	Ratio	Lower	Upper
98	100		
100	64.0	51.2	76.8



Abundance Ion 98.00 (97.70 to 98.70): VN054914.D (-2494) (-)

Ion 100.00 (99.70 to 100.70): VN054914.D (-2494) (-)





#51

4-Methyl-2-Pentanone

Concen: 263.404 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN054914.D

Acq: 3 Apr 2019 9:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 1122744

Ion Ratio Lower Upper

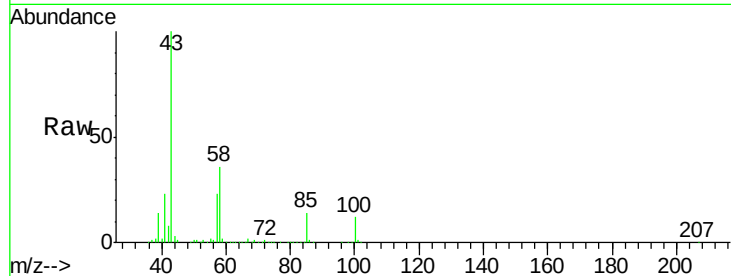
43 100

58 35.0 31.8 47.6

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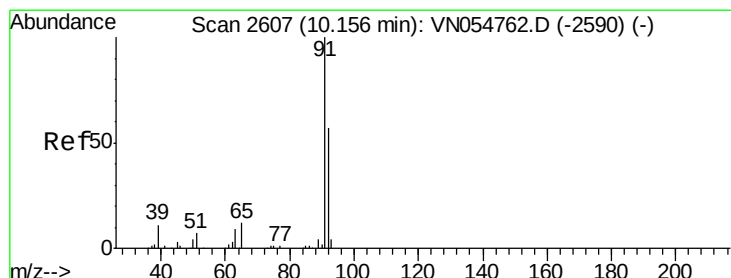
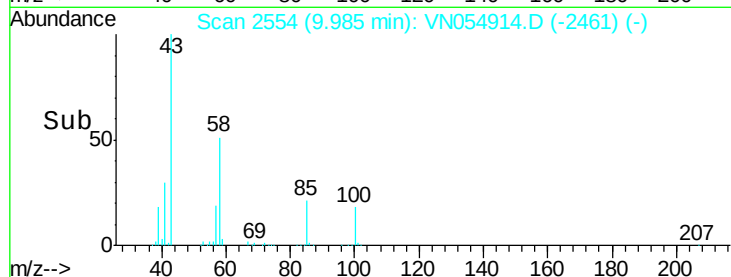
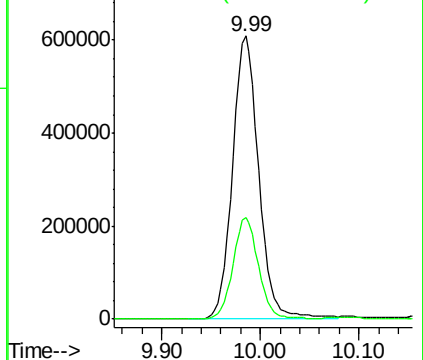
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4/4/2019 9:31:21 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 53.465 ug/l

RT: 10.15 min Scan# 2606

Delta R.T. -0.00 min

Lab File: VN054914.D

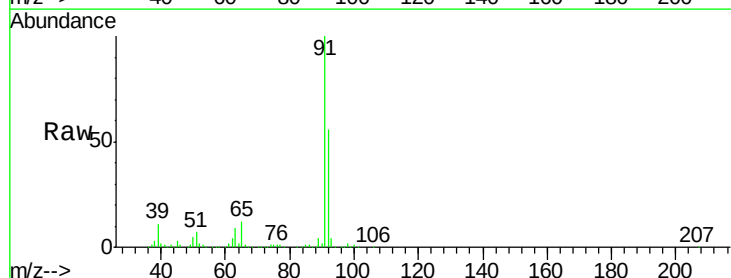
Acq: 3 Apr 2019 9:10

Tgt Ion: 92 Resp: 579201

Ion Ratio Lower Upper

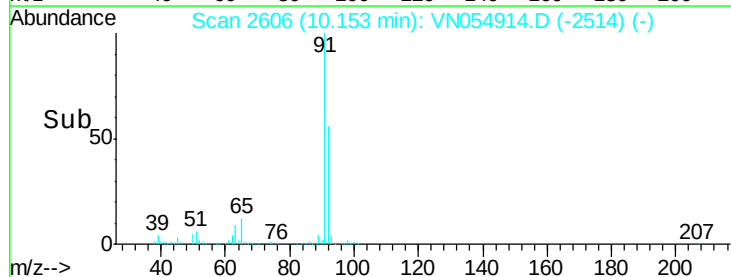
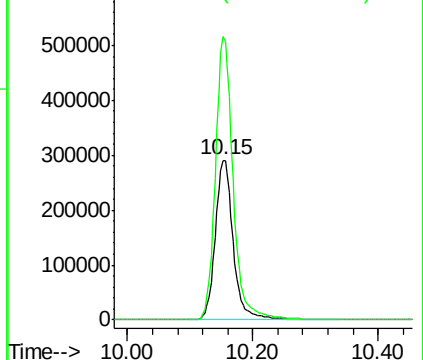
92 100

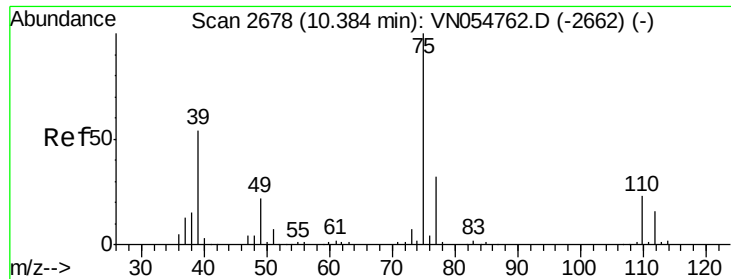
91 175.2 140.7 211.1



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





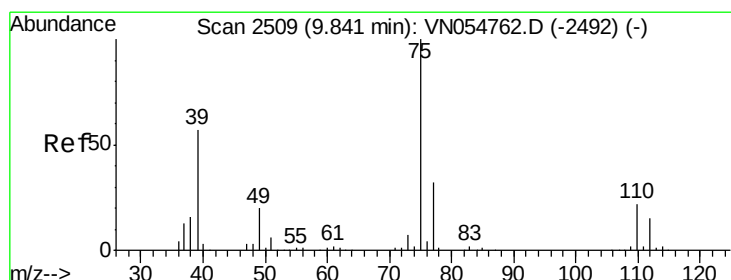
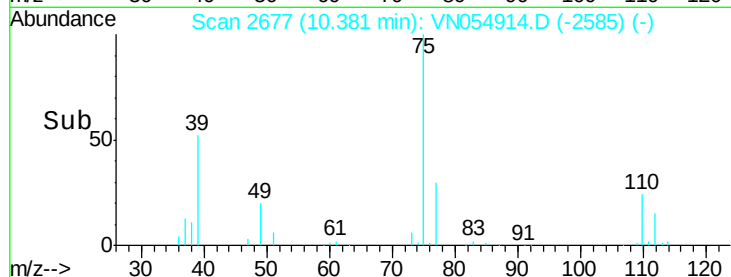
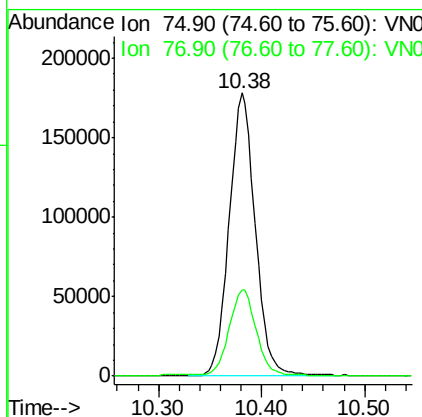
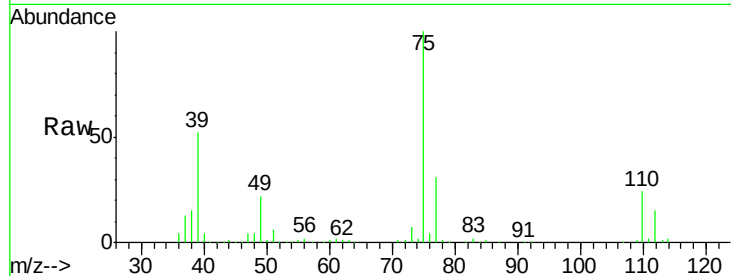
#53
t-1,3-Dichloropropene
Concen: 55.199 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. -0.00 min
Lab File: VN054914.D
Acq: 3 Apr 2019 9:10

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 75 Resp: 315136
Ion Ratio Lower Upper
75 100
77 30.3 25.8 38.8

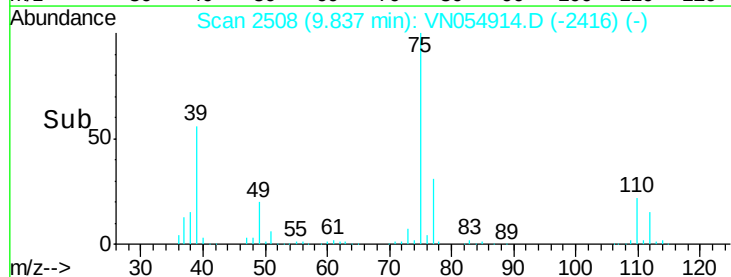
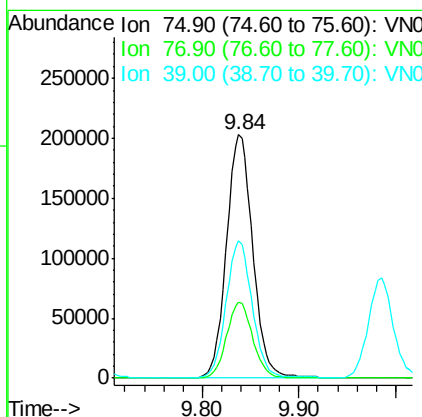
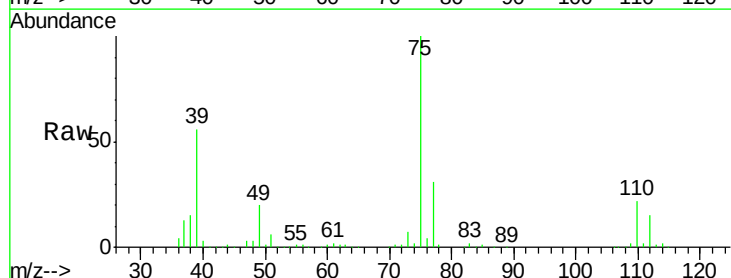
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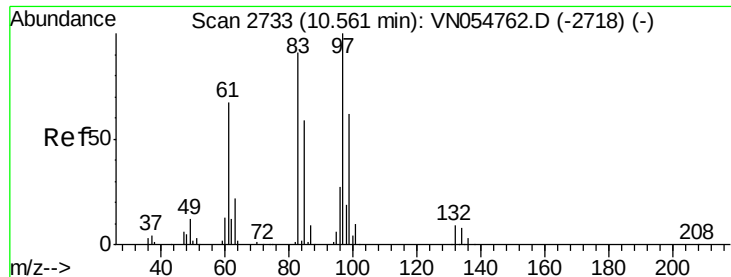
MMDadoda
4/4/2019 9:31:21 AM



#54
cis-1,3-Dichloropropene
Concen: 56.351 ug/l
RT: 9.84 min Scan# 2508
Delta R.T. -0.00 min
Lab File: VN054914.D
Acq: 3 Apr 2019 9:10

Tgt Ion: 75 Resp: 384300
Ion Ratio Lower Upper
75 100
77 31.4 25.4 38.0
39 56.2 37.2 55.8#





#55

1,1,2-Trichloroethane

Concen: 51.381 ug/l

RT: 10.56 min Scan# 2733

Delta R.T. 0.00 min

Lab File: VN054914.D

Acq: 3 Apr 2019 9:10

Instrument :

MSVOA_N

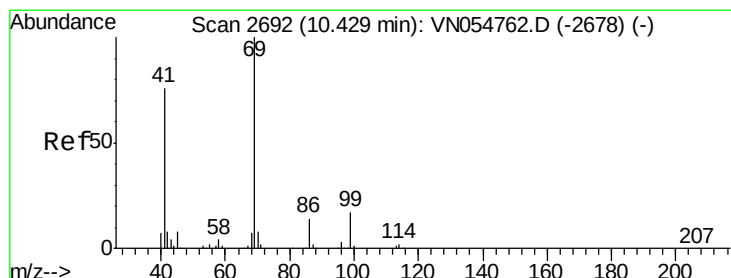
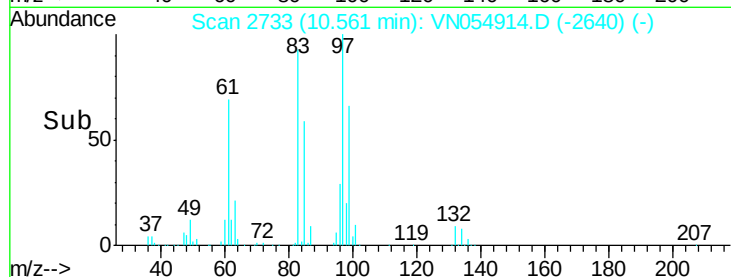
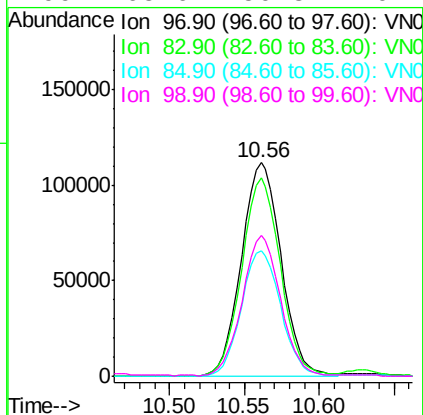
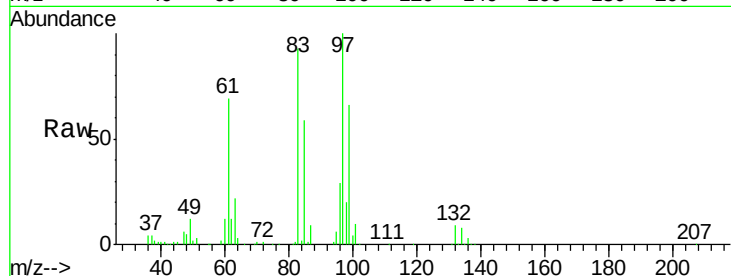
ClientSampleId :

VSTDCCC050

Tot Ion:	97	Resp:	206974
Ion	Ratio	Lower	Upper
97	100		
83	92.6	66.6	100.0
85	58.7	44.4	66.6
99	65.6	50.8	76.2

Manual Integrations
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4/4/2019 9:31:21 AM



#56

Ethyl methacrylate

Concen: 52.602 ug/l

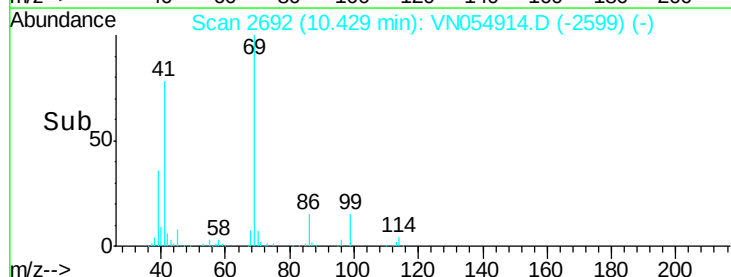
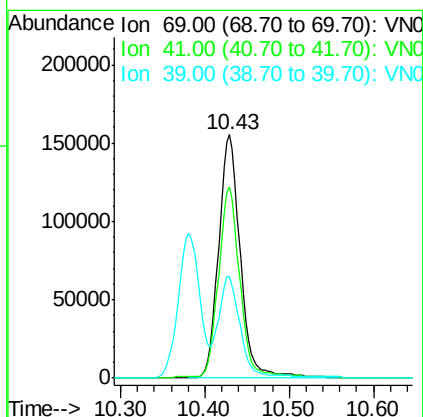
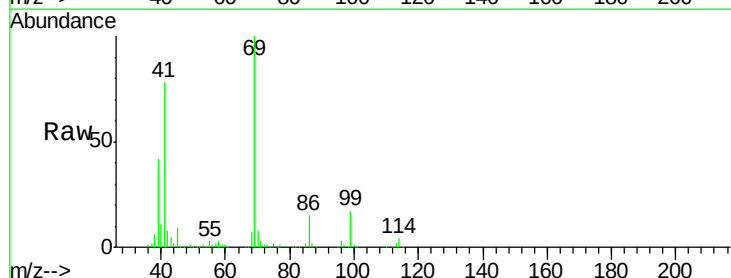
RT: 10.43 min Scan# 2692

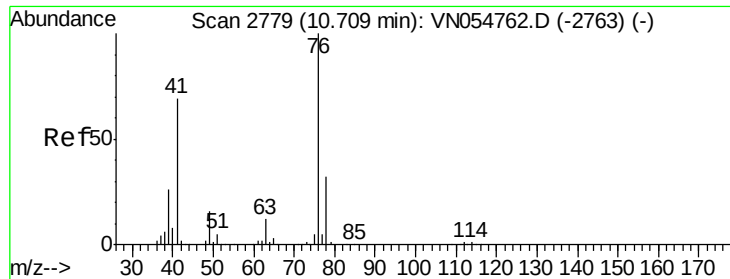
Delta R.T. 0.00 min

Lab File: VN054914.D

Acq: 3 Apr 2019 9:10

Tgt Ion:	69	Resp:	277959
Ion	Ratio	Lower	Upper
69	100		
41	75.7	49.4	74.2#
39	38.7	28.3	42.5





#57

1,3-Dichloropropane

Concen: 52.815 ug/l

RT: 10.71 min Scan# 2778

Delta R.T. -0.00 min

Lab File: VN054914.D

Acq: 3 Apr 2019 9:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 76 Resp: 365759

Ion Ratio Lower Upper

76 100

78 32.9

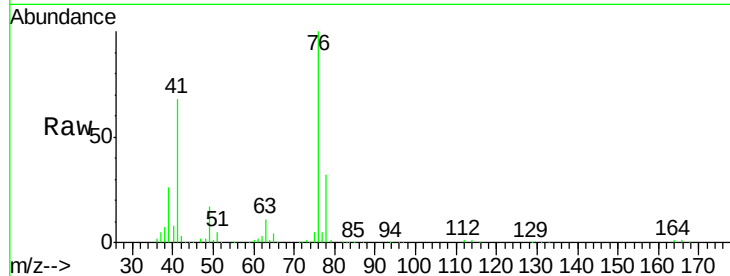
25.7

38.5

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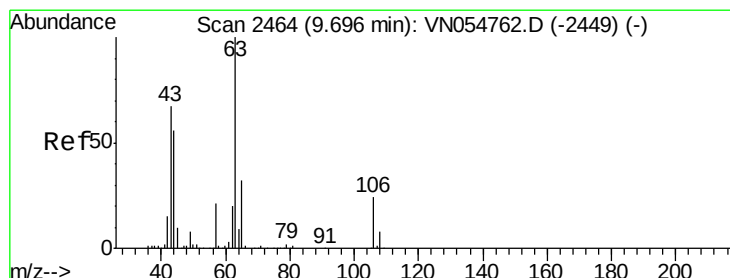
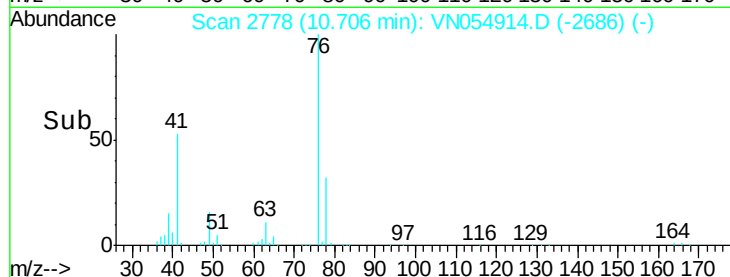
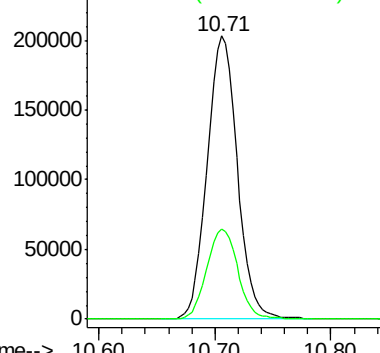
MMDadoda

4/4/2019 9:31:21 AM



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#58

2-Chloroethyl Vinyl ether

Concen: 254.523 ug/l

RT: 9.69 min Scan# 2463

Delta R.T. -0.00 min

Lab File: VN054914.D

Acq: 3 Apr 2019 9:10

Tgt Ion: 63 Resp: 579791

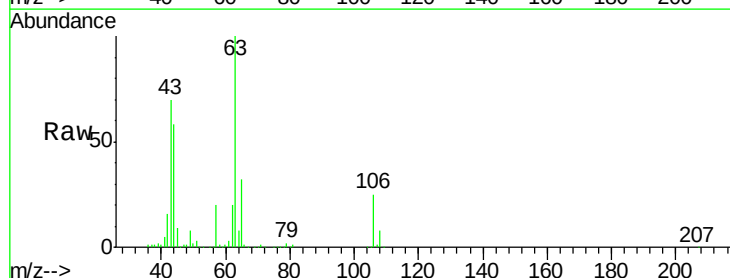
Ion Ratio Lower Upper

63 100

106 24.4

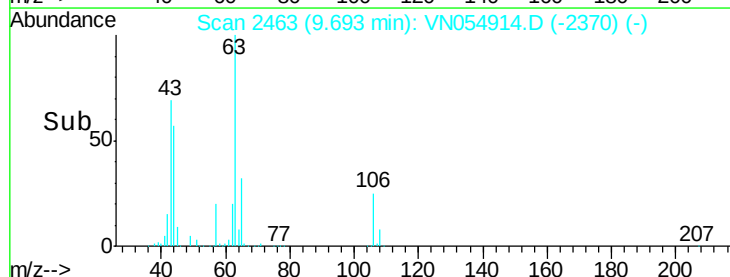
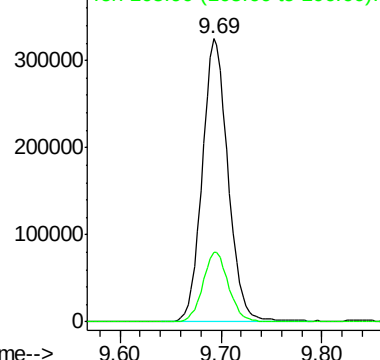
24.4

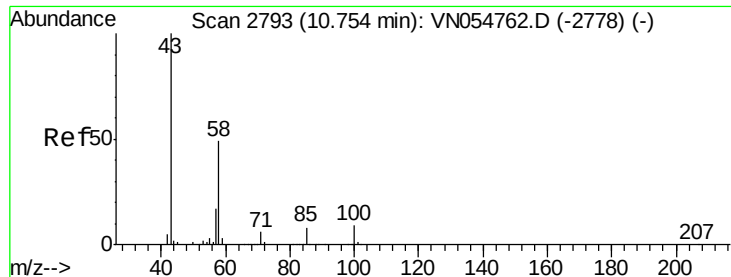
36.6



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V





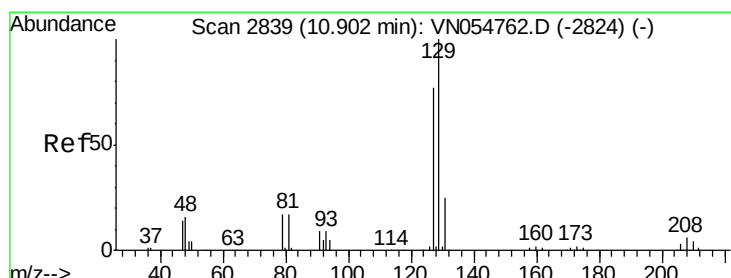
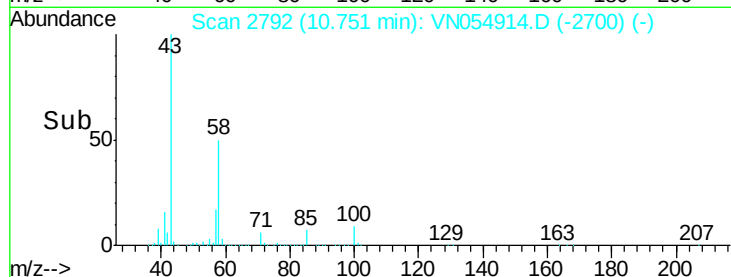
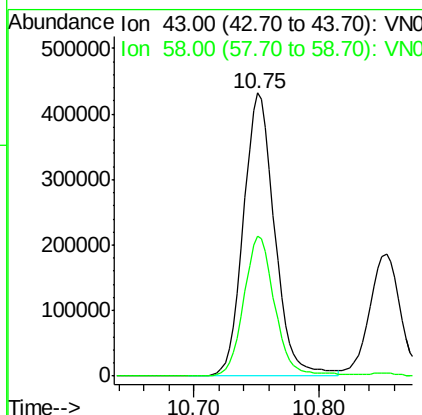
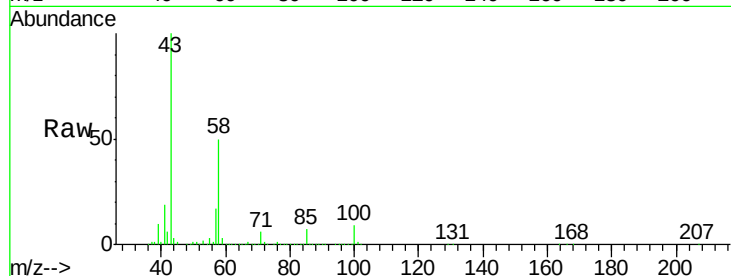
#59
2-Hexanone
Concen: 273.699 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. -0.00 min
Lab File: VN054914.D
Acq: 3 Apr 2019 9:10

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
58	49.4	28.0	83.9

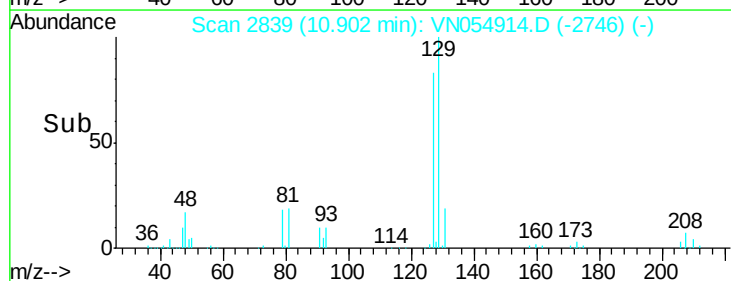
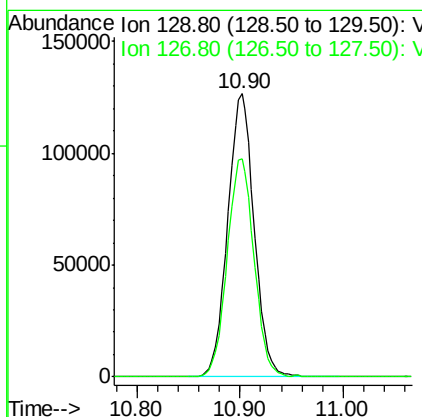
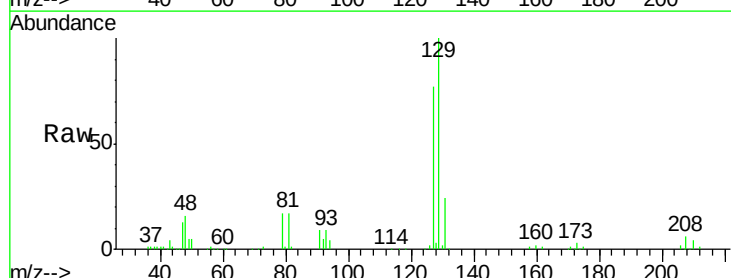
Manual Integrations
APPROVED

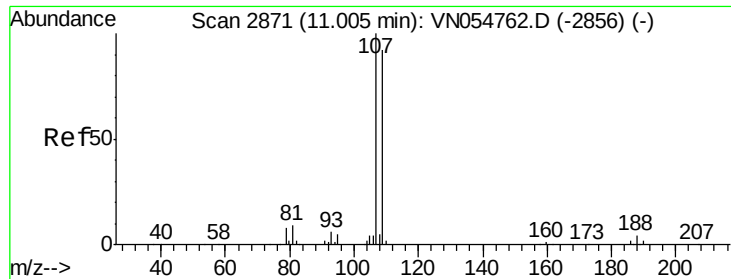
MMDadoda
4/4/2019 9:31:21 AM



#60
Dibromochloromethane
Concen: 55.445 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN054914.D
Acq: 3 Apr 2019 9:10

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.0	38.6	115.8





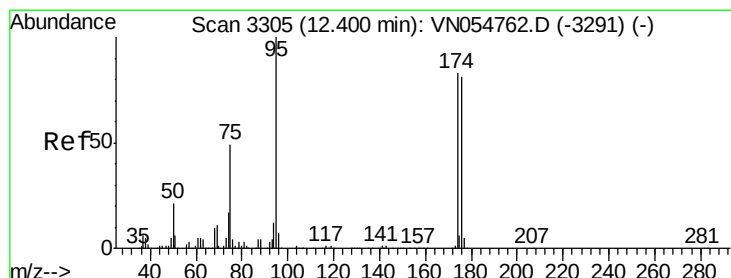
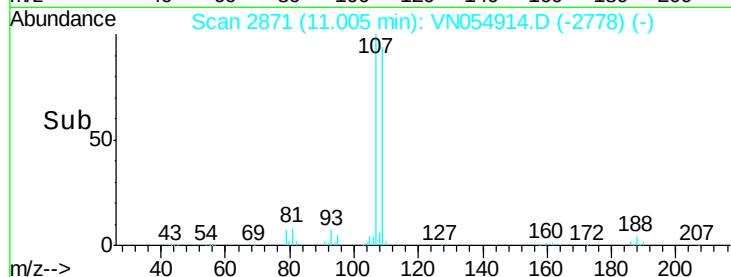
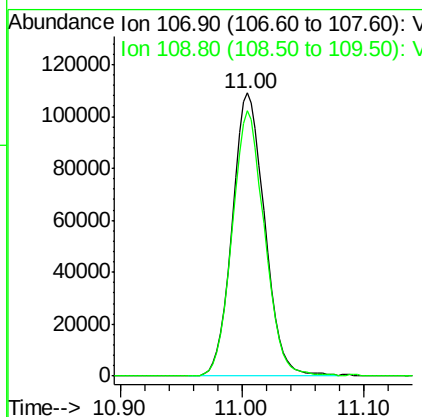
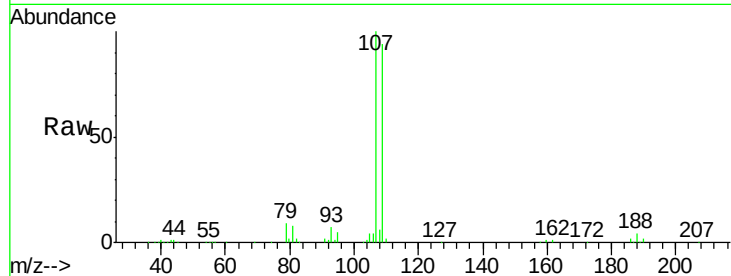
#61
 1,2-Dibromoethane
 Concen: 52.190 ug/l
 RT: 11.00 min Scan# 2871
 Delta R.T. 0.00 min
 Lab File: VN054914.D
 Acq: 3 Apr 2019 9:10

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
107	100		
109	93.8	75.9	113.9

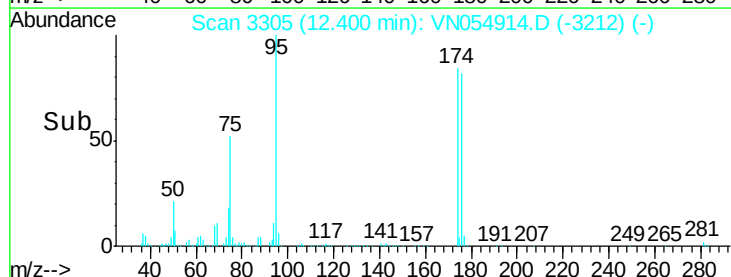
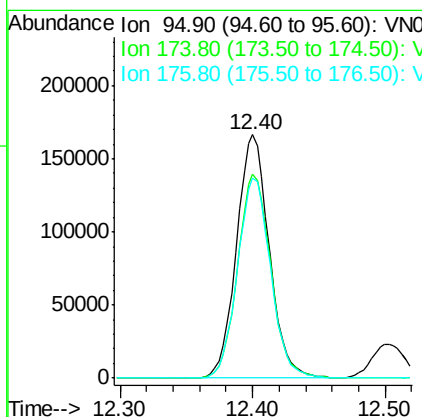
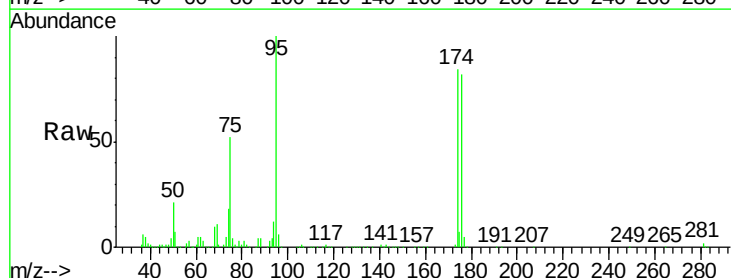
Manual Integrations
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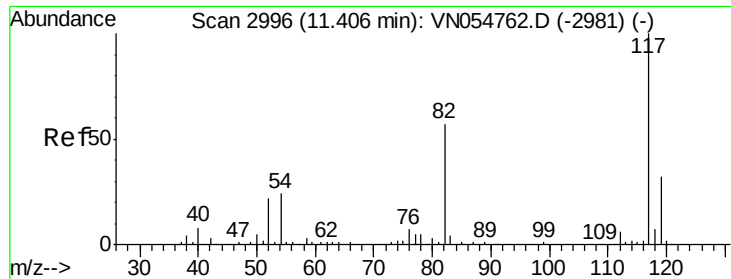
MMDadoda
 4/4/2019 9:31:21 AM



#62
 4-Bromofluorobenzene
 Concen: 50.578 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.00 min
 Lab File: VN054914.D
 Acq: 3 Apr 2019 9:10

Tgt Ion	Ratio	Lower	Upper
95	100		
174	85.1	0.0	191.0
176	83.4	0.0	187.4





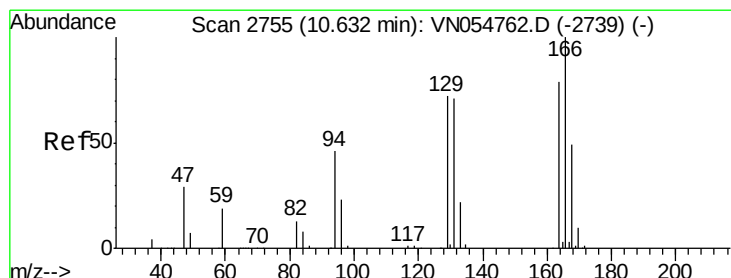
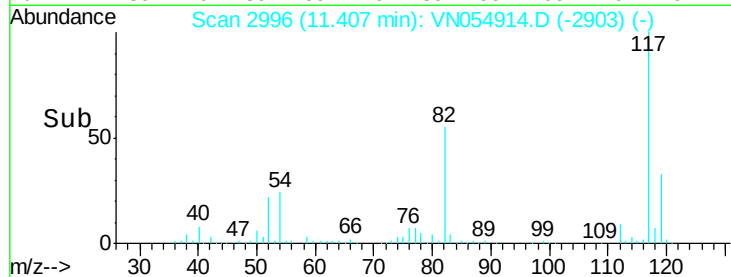
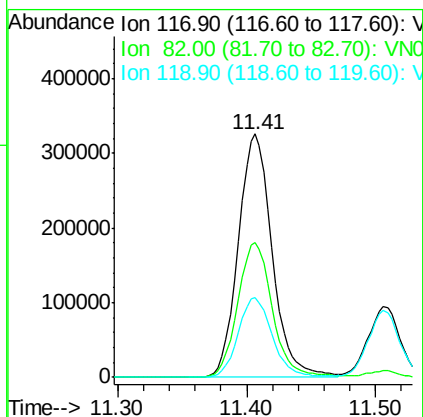
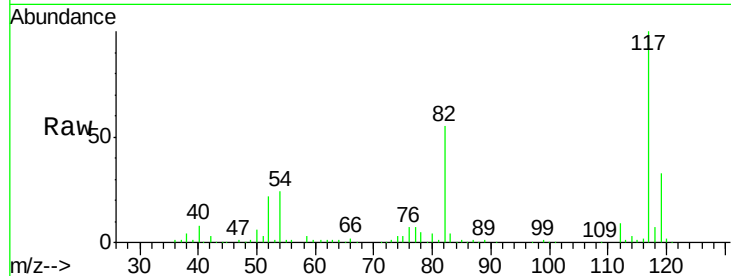
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN054914.D
Acq: 3 Apr 2019 9:10

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
117	100		
82	55.4	40.0	60.0
119	32.6	25.8	38.6

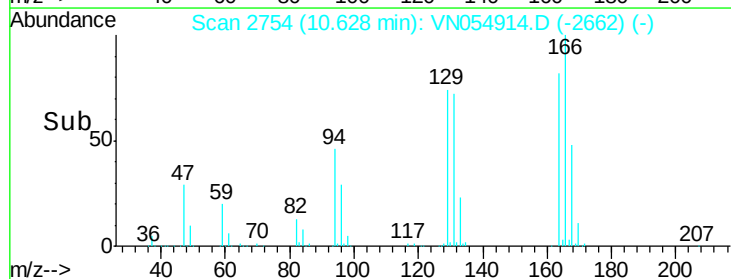
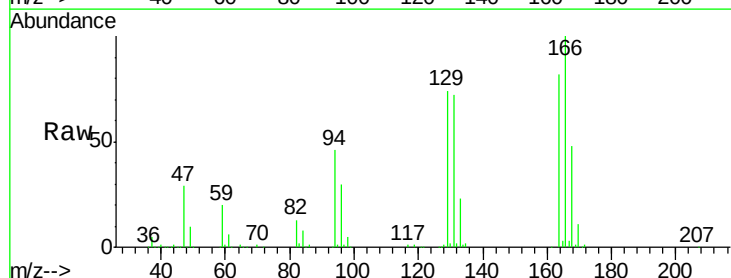
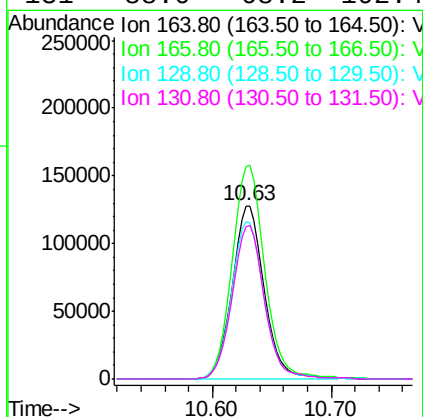
Manual Integrations
APPROVED

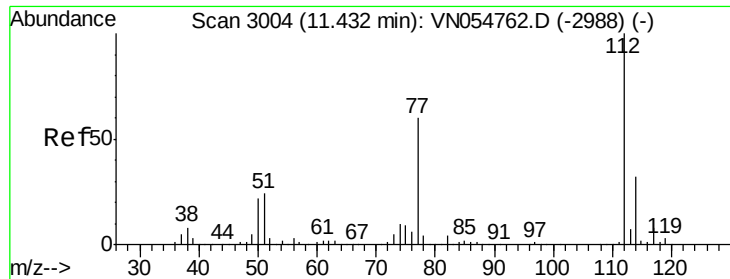
MMDadoda
4/4/2019 9:31:21 AM



#64
Tetrachloroethene
Concen: 51.933 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. -0.00 min
Lab File: VN054914.D
Acq: 3 Apr 2019 9:10

Tgt Ion	Ratio	Lower	Upper
164	100		
166	122.6	103.9	155.9
129	91.1	71.1	106.7
131	88.0	68.2	102.4





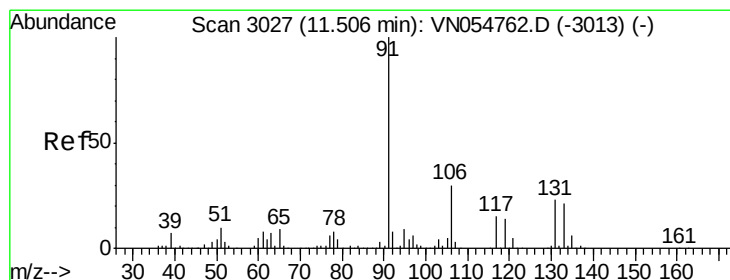
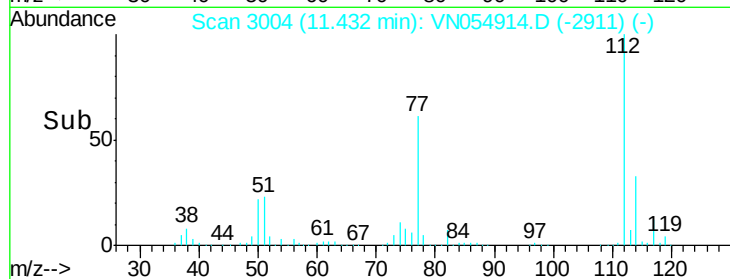
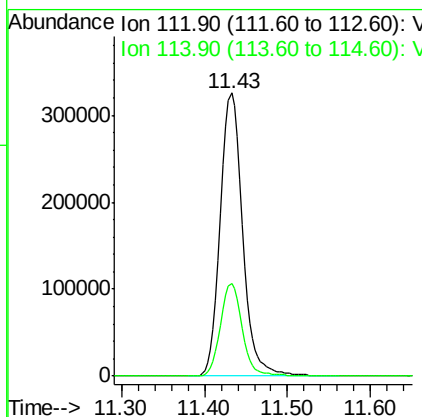
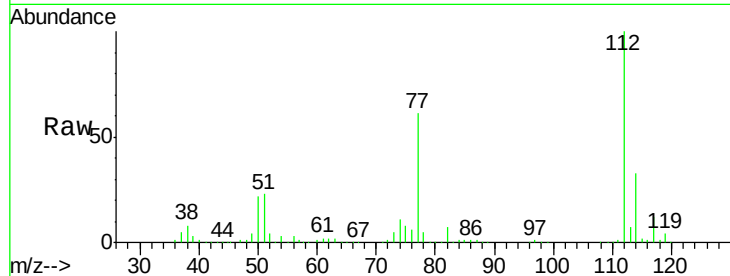
#65
Chlorobenzene
Concen: 52.131 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN054914.D
Acq: 3 Apr 2019 9:10

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion:112 Resp: 609365
Ion Ratio Lower Upper
112 100
114 32.6 25.9 38.9

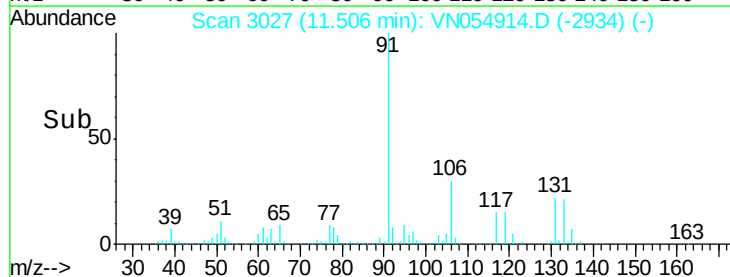
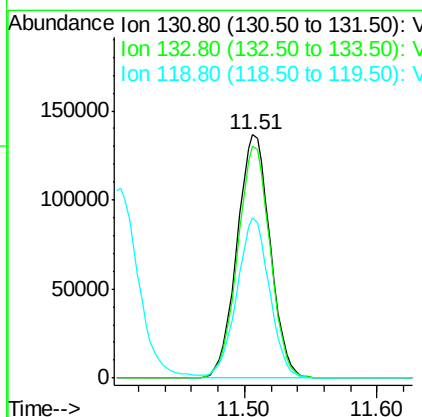
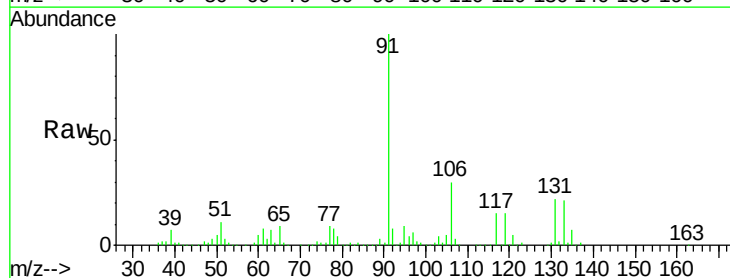
Manual Integrations
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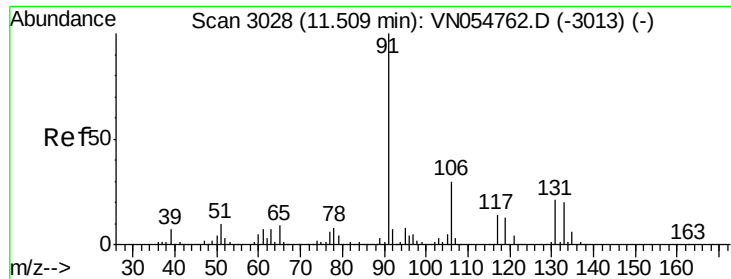
MMDadoda
4/4/2019 9:31:21 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 54.098 ug/l
RT: 11.51 min Scan# 3027
Delta R.T. 0.00 min
Lab File: VN054914.D
Acq: 3 Apr 2019 9:10

Tgt Ion:131 Resp: 236691
Ion Ratio Lower Upper
131 100
133 93.7 47.6 142.9
119 64.9 32.4 97.0





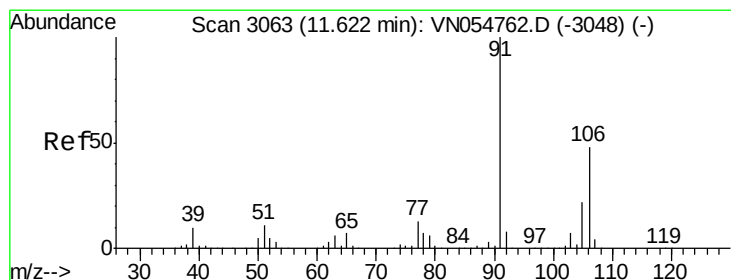
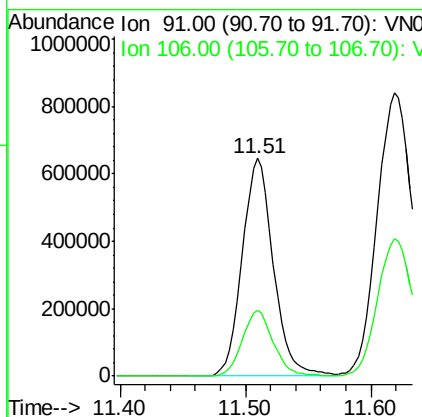
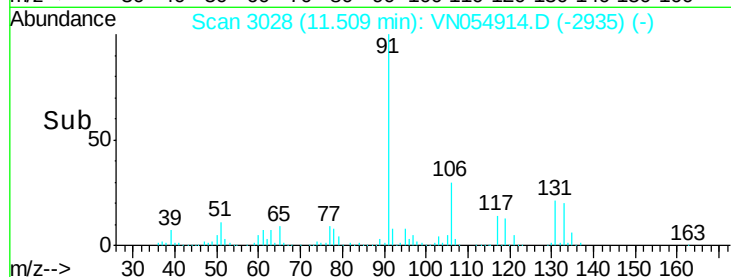
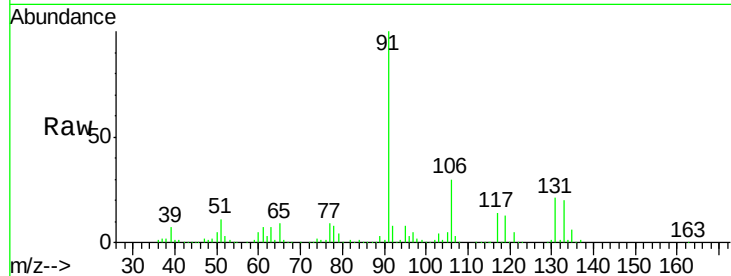
#67
Ethyl Benzene
Concen: 53.025 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN054914.D
Acq: 3 Apr 2019 9:10

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 1118476
Ion Ratio Lower Upper
91 100
106 30.4 25.5 38.3

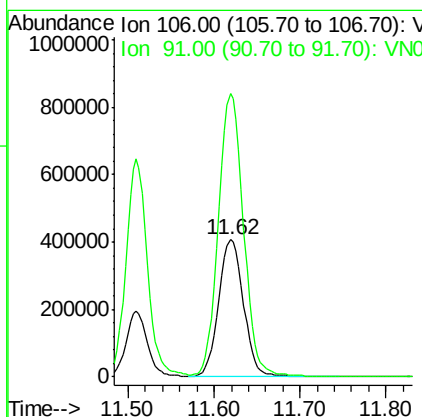
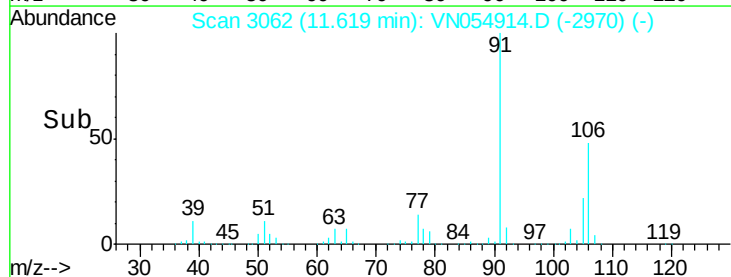
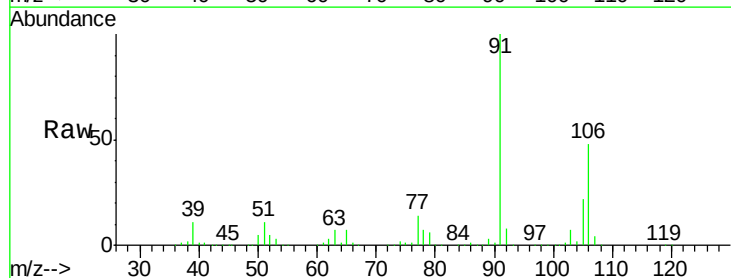
Manual Integrations
APPROVED

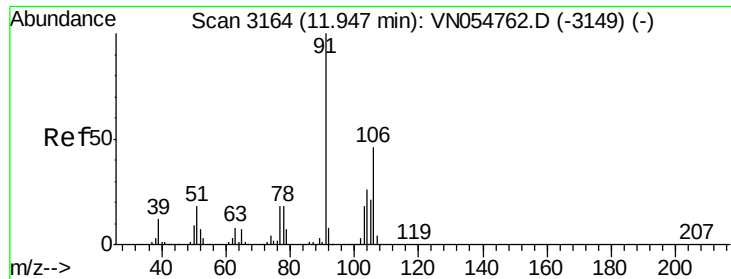
MMDadoda
4/4/2019 9:31:21 AM



#68
m/p-Xylenes
Concen: 105.865 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN054914.D
Acq: 3 Apr 2019 9:10

Tgt Ion: 106 Resp: 826373
Ion Ratio Lower Upper
106 100
91 207.5 159.4 239.2





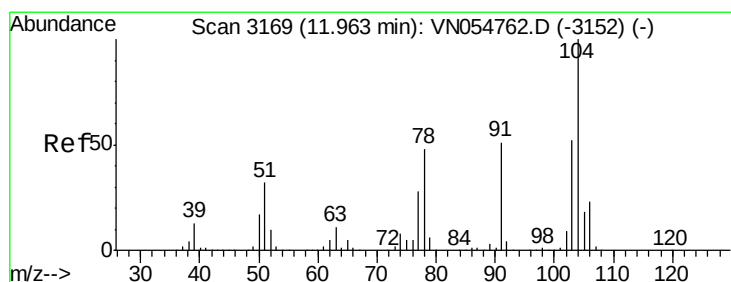
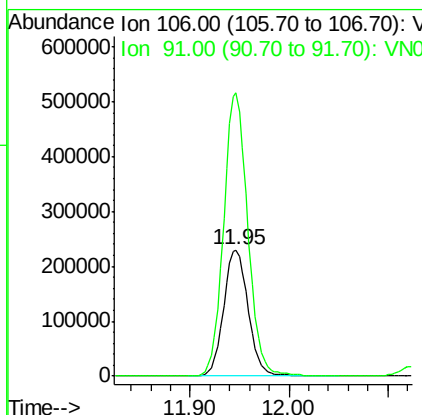
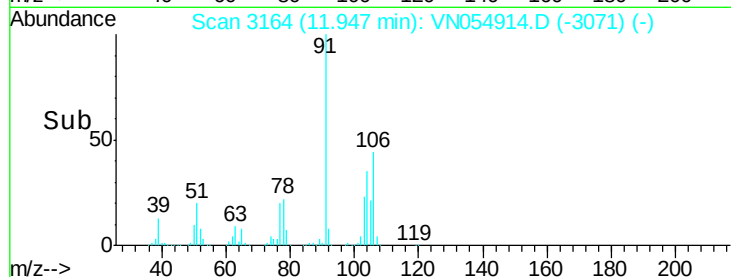
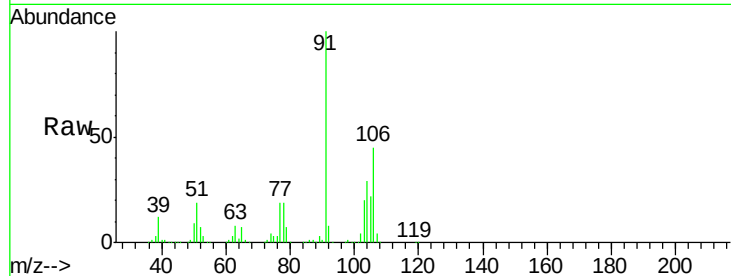
#69
o-Xylene
Concen: 52.193 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN054914.D
Acq: 3 Apr 2019 9:10

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion:106 Resp: 399513
Ion Ratio Lower Upper
106 100
91 221.0 105.7 317.1

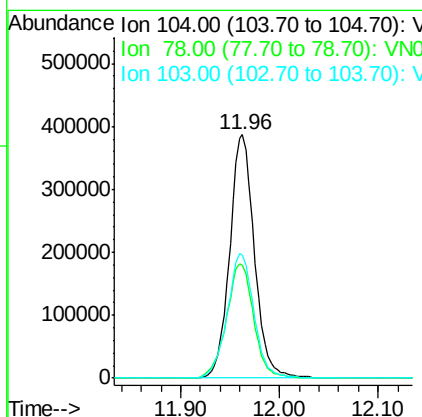
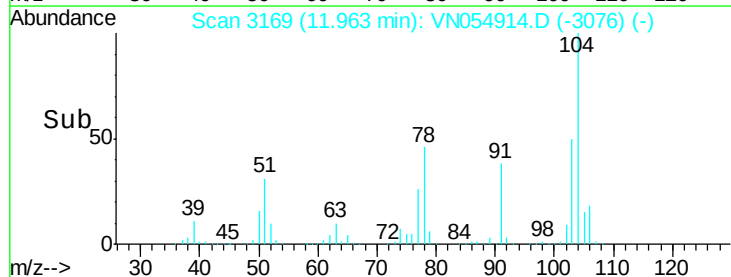
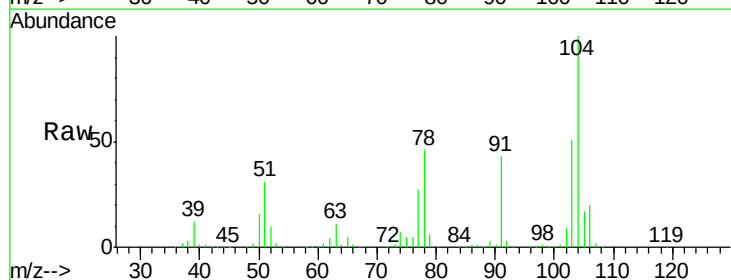
Manual Integrations
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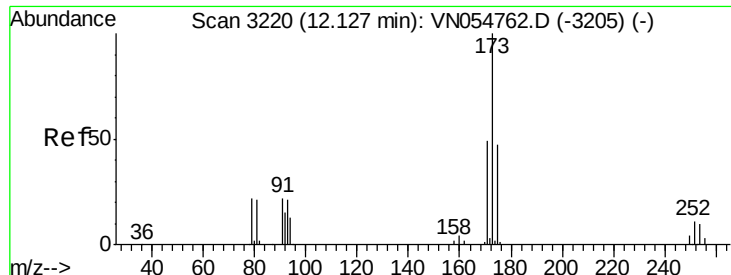
MMDadoda
4/4/2019 9:31:21 AM



#70
Styrene
Concen: 55.293 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN054914.D
Acq: 3 Apr 2019 9:10

Tgt Ion:104 Resp: 676724
Ion Ratio Lower Upper
104 100
78 51.8 38.2 57.2
103 55.5 44.4 66.6





#71

Bromoform

Concen: 54.019 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN054914.D

Acq: 3 Apr 2019 9:10

Instrument :

MSVOA_N

ClientSampled :

VSTDCCC050

Tot Ion:173 Resp: 138458

Ion Ratio Lower Upper

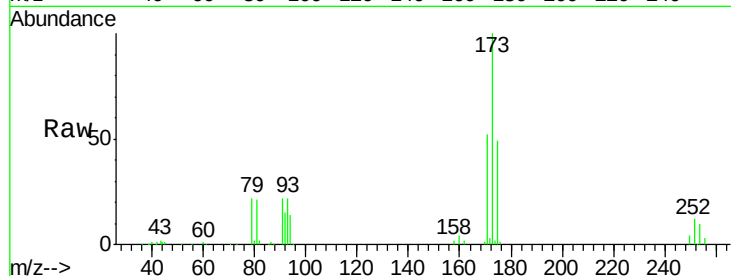
173 100

175 48.7 24.4 73.2

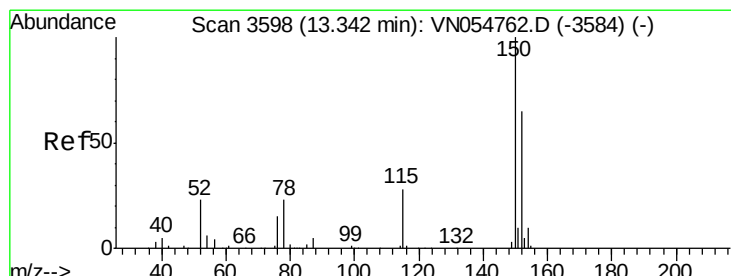
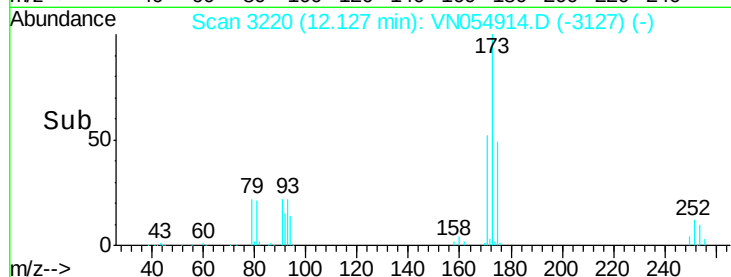
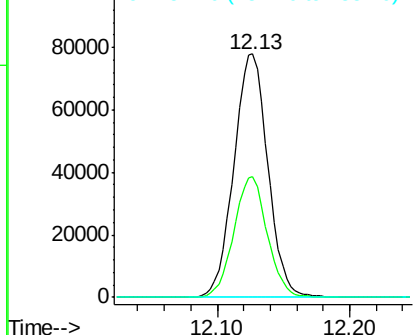
254 0.1 0.1 0.1#

Manual Integrations
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4/4/2019 9:31:21 AM



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN054914.D

Acq: 3 Apr 2019 9:10

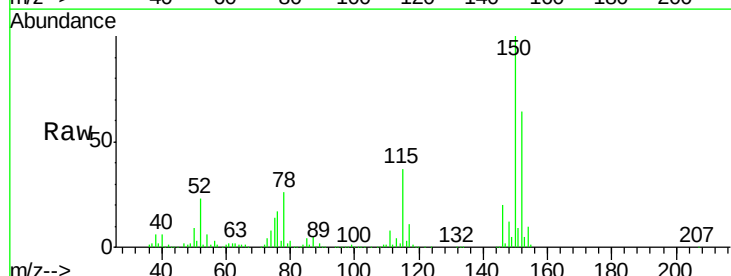
Tgt Ion:152 Resp: 274077

Ion Ratio Lower Upper

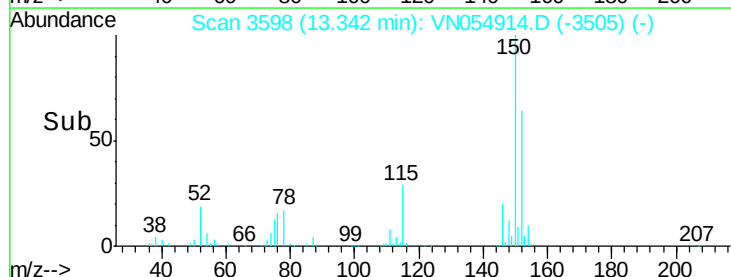
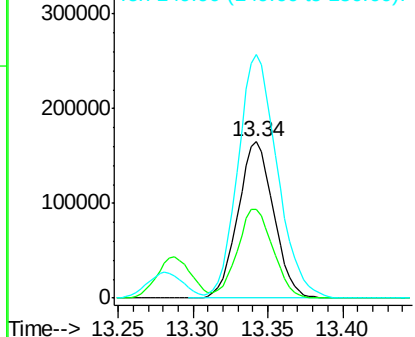
152 100

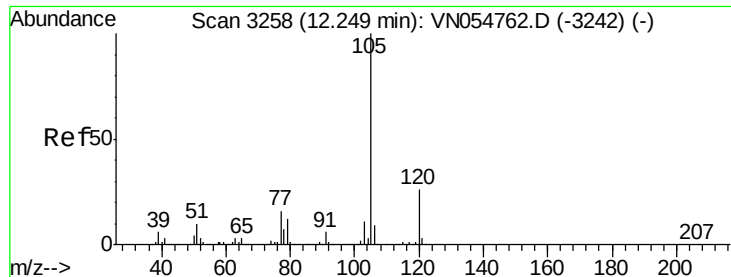
115 56.9 27.2 81.6

150 171.5 0.0 349.2



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





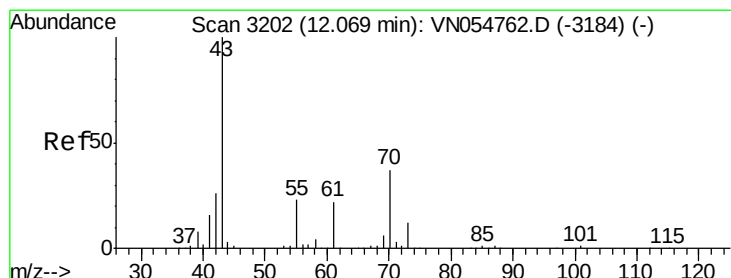
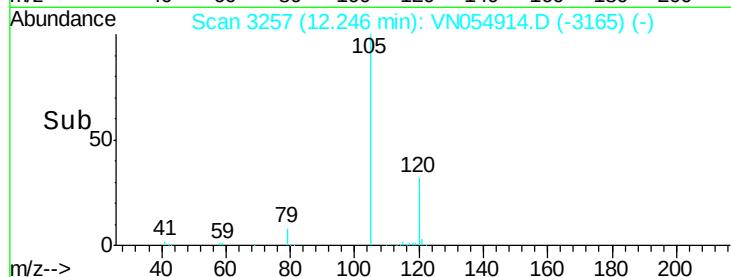
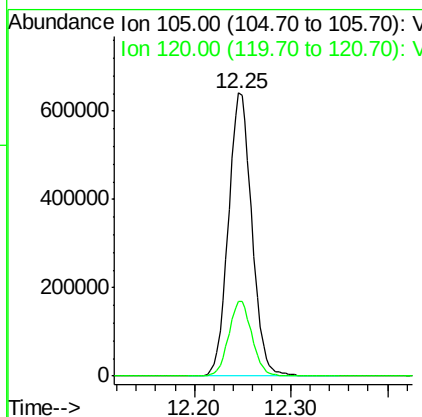
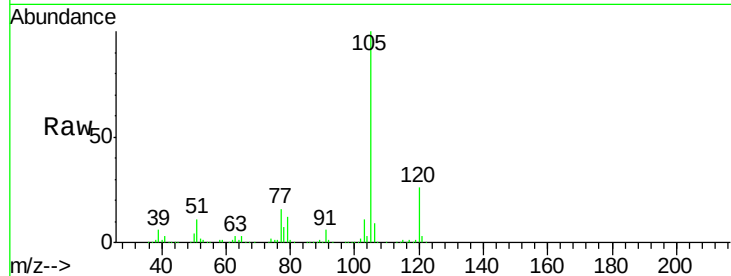
#73
Isopropylbenzene
Concen: 48.123 ug/l
RT: 12.25 min Scan# 3257
Delta R.T. -0.00 min
Lab File: VN054914.D
Acq: 3 Apr 2019 9:10

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion:105 Resp: 1078049
Ion Ratio Lower Upper
105 100
120 26.2 13.8 41.3

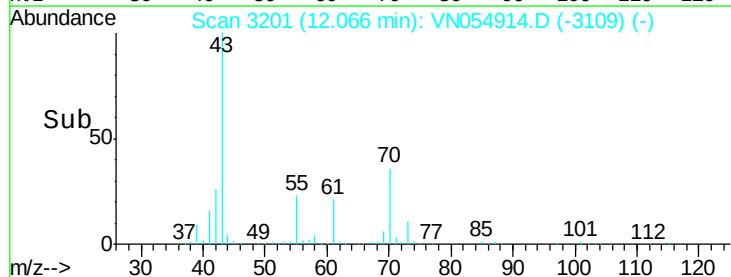
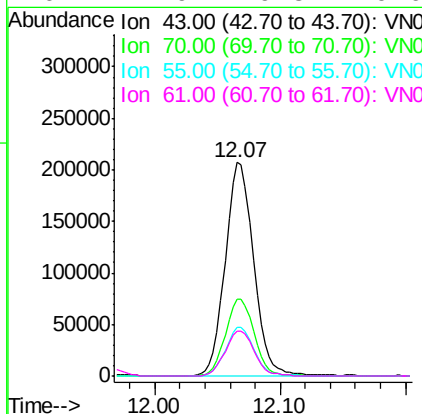
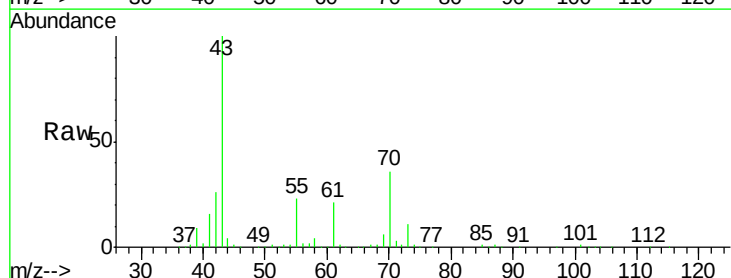
Manual Integrations
APPROVED

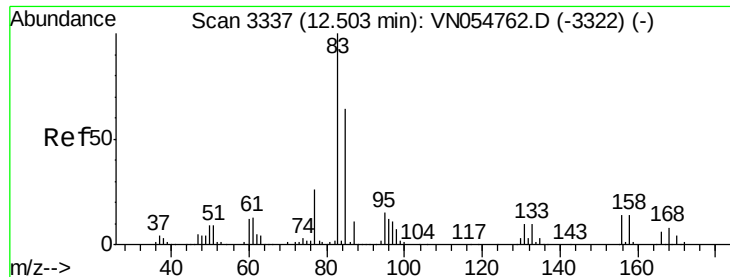
MMDadoda
4/4/2019 9:31:21 AM



#74
N-ethyl acetate
Concen: 46.455 ug/l
RT: 12.07 min Scan# 3201
Delta R.T. -0.00 min
Lab File: VN054914.D
Acq: 3 Apr 2019 9:10

Tgt Ion: 43 Resp: 324214
Ion Ratio Lower Upper
43 100
70 36.7 35.4 53.0
55 23.3 19.8 29.6
61 21.9 19.8 29.6





#75

1,1,2,2-Tetrachloroethane

Concen: 52.068 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN054914.D

Acq: 3 Apr 2019 9:10

Instrument :

MSVOA_N

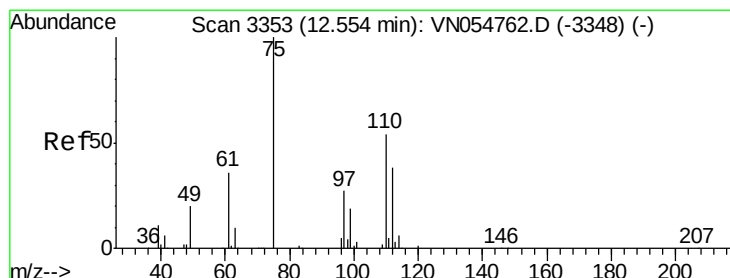
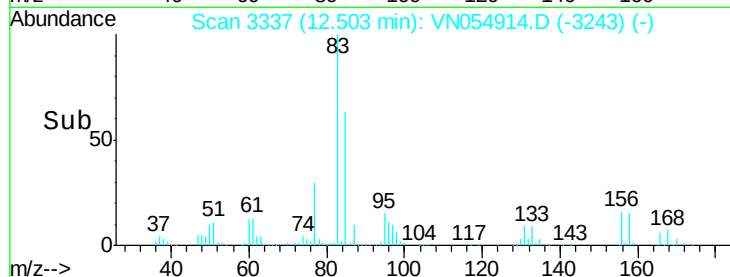
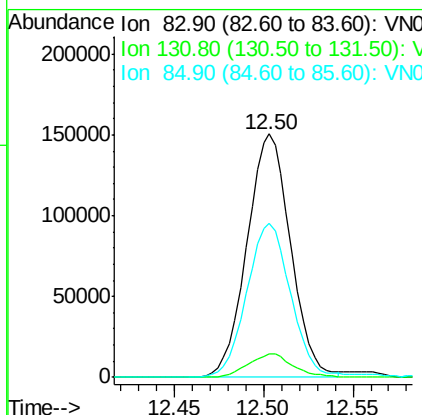
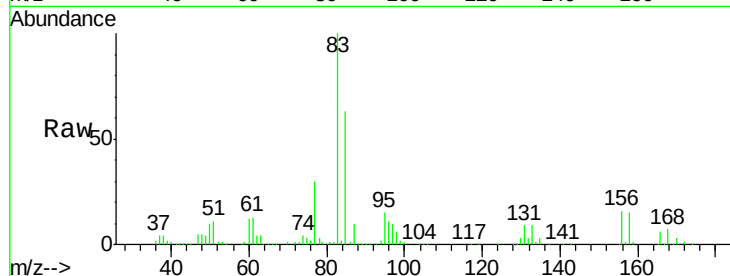
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	256781
Ion Ratio	Lower	Upper	
83	100		
131	9.9	5.8	17.4
85	64.0	32.2	96.6

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 47.046 ug/l m

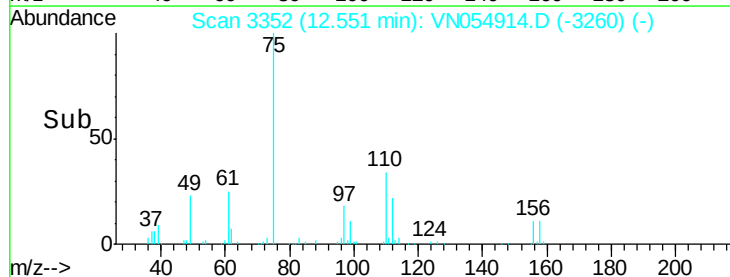
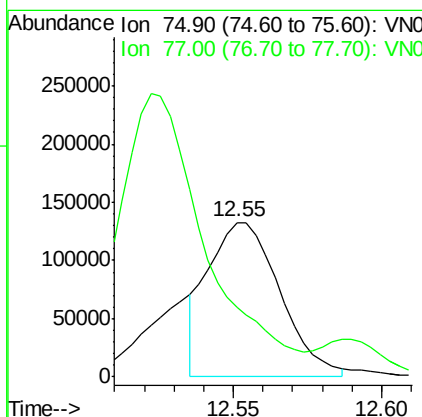
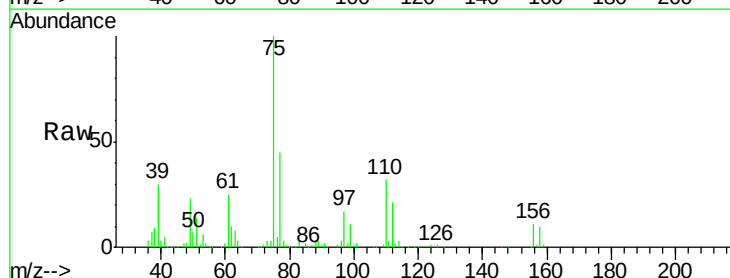
RT: 12.55 min Scan# 3352

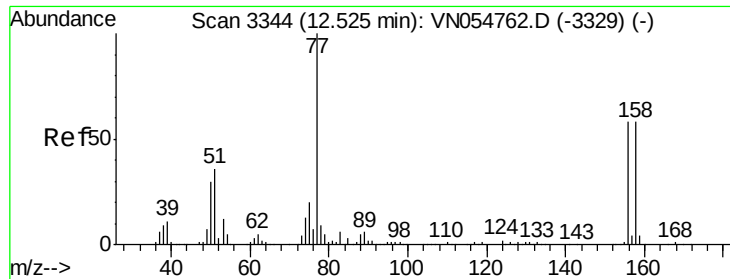
Delta R.T. -0.00 min

Lab File: VN054914.D

Acq: 3 Apr 2019 9:10

Tgt Ion:	75	Resp:	224002
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 48.156 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN054914.D

Acq: 3 Apr 2019 9:10

Instrument :

MSVOA_N

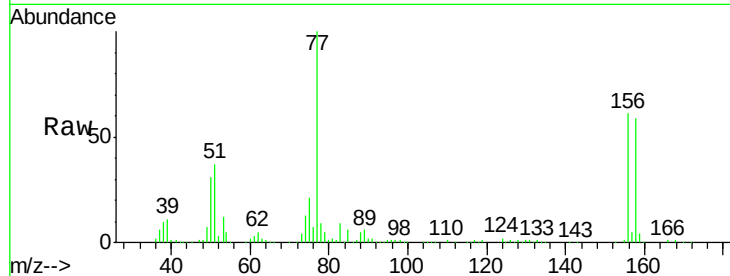
ClientSampleId :

VSTDCCC050

Tot Ion:	156	Resp:	260361
Ion Ratio	Lower	Upper	
156	100		
77	192.6	81.5	244.4
158	96.8	49.0	147.2

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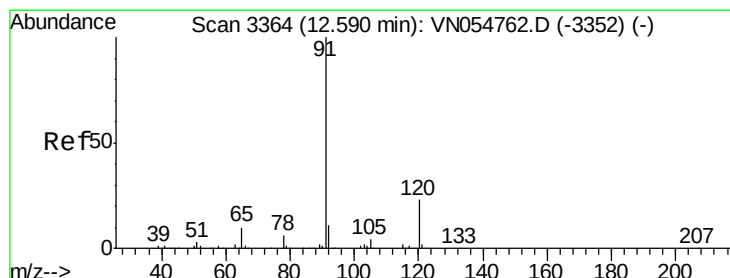
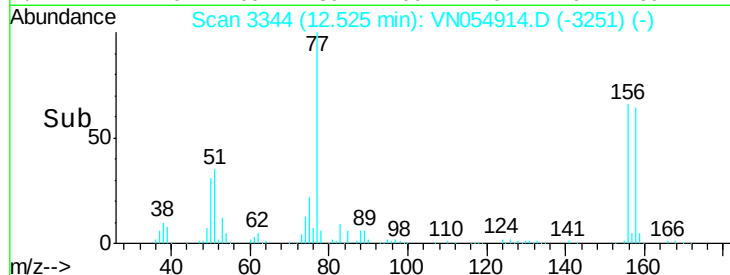
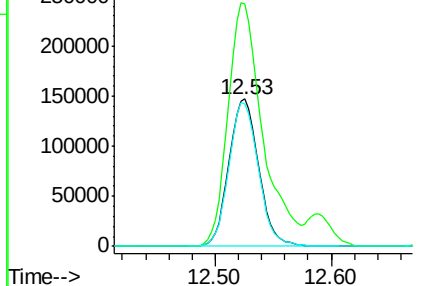
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Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 49.701 ug/l

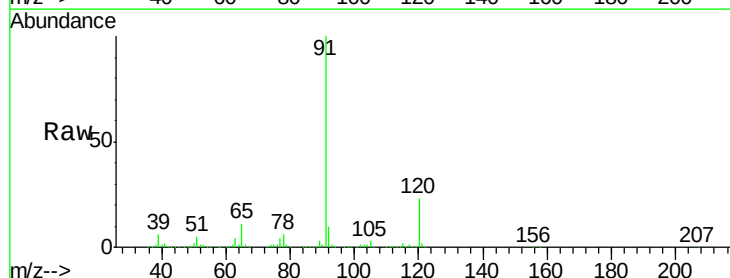
RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN054914.D

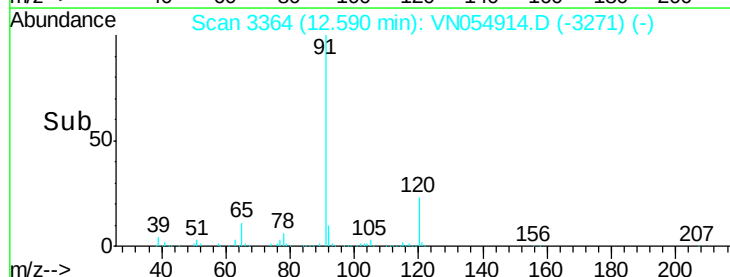
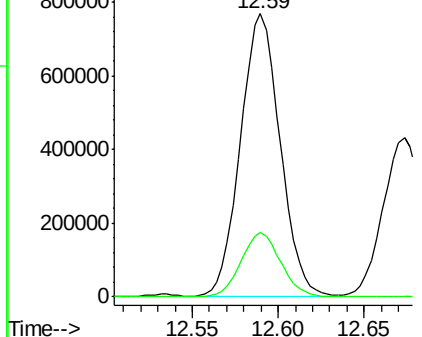
Acq: 3 Apr 2019 9:10

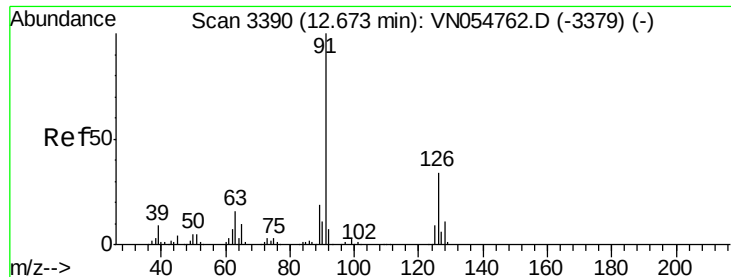
Tgt Ion:	91	Resp:	1223746
Ion Ratio	Lower	Upper	
91	100		
120	22.9	12.3	36.9



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 47.686 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN054914.D

Acq: 3 Apr 2019 9:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 726405

Ion Ratio Lower Upper

91 100

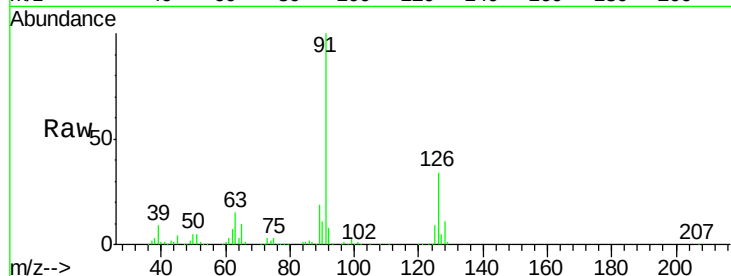
126 34.0 18.7 56.1

Manual Integrations

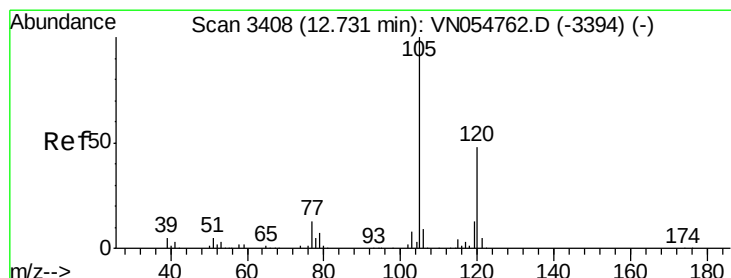
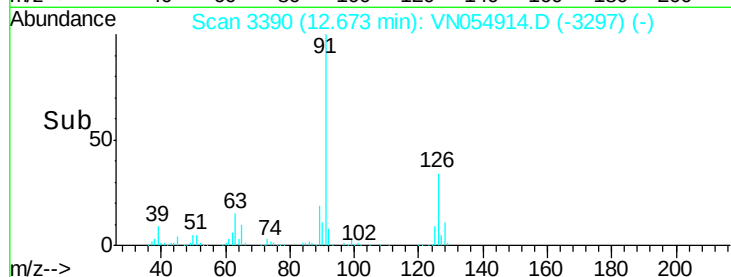
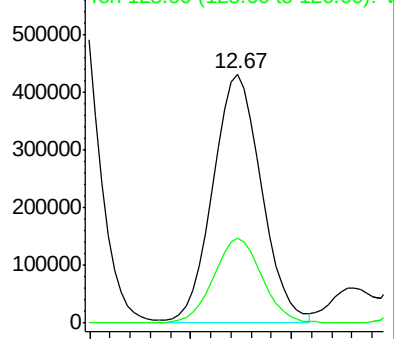
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Abundance Ion 91.00 (90.70 to 91.70): VN054762.D (-3379) (-)



#80

1,3,5-Trimethylbenzene

Concen: 48.824 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN054914.D

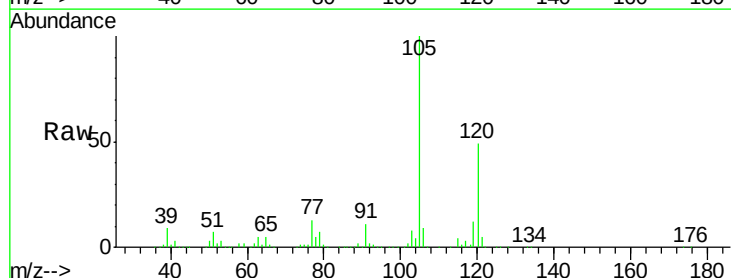
Acq: 3 Apr 2019 9:10

Tgt Ion: 105 Resp: 897465

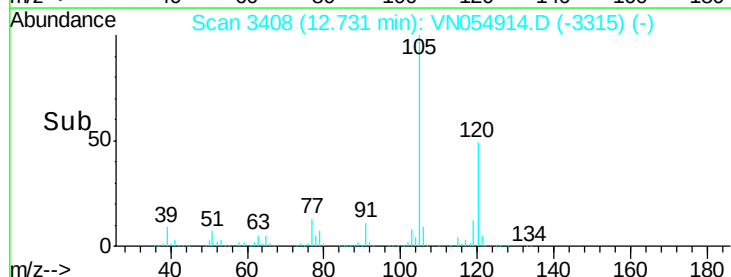
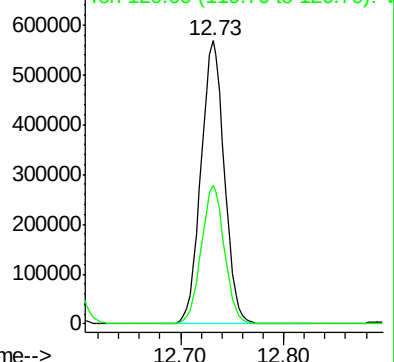
Ion Ratio Lower Upper

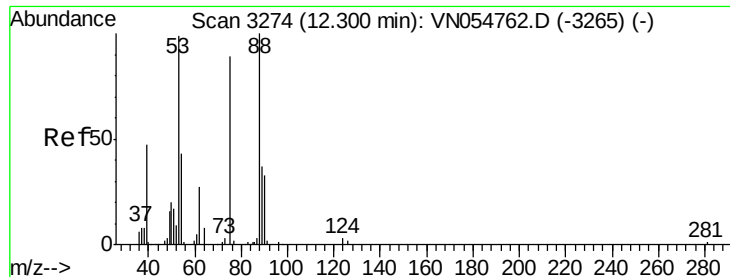
105 100

120 48.5 25.0 75.0



Abundance Ion 105.00 (104.70 to 105.70): VN054762.D (-3394) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 49.037 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN054914.D

Acq: 3 Apr 2019 9:10

Instrument :

MSVOA_N

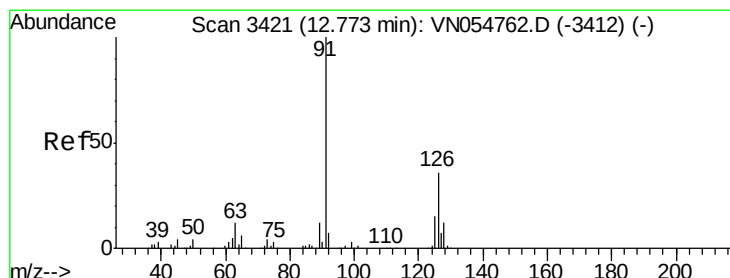
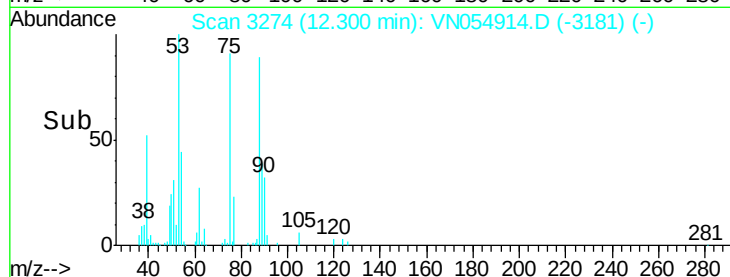
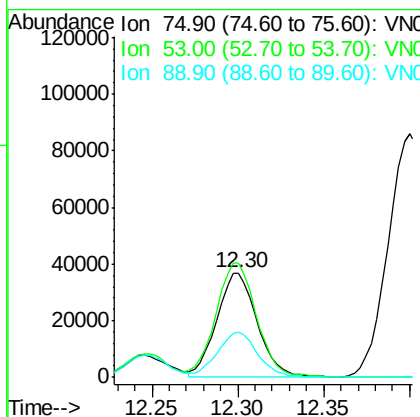
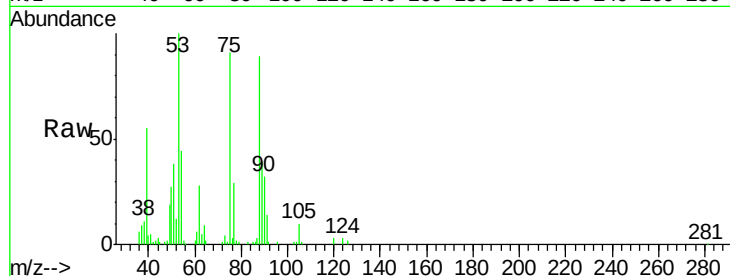
ClientSampleId :

VSTDCCC050

Tot Ion:	75	Resp:	60025
Ion	Ratio	Lower	Upper
75	100		
53	112.8	76.2	114.2
89	44.1	39.2	58.8

Manual Integrations
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#82

4-Chlorotoluene

Concen: 49.106 ug/l

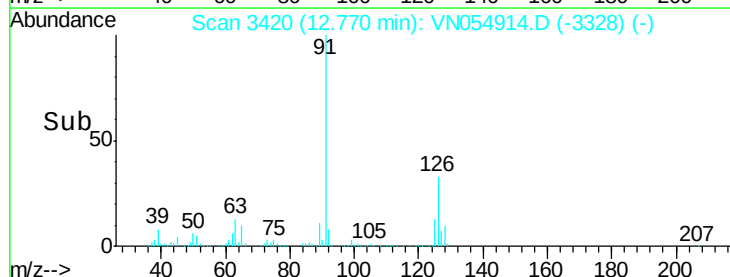
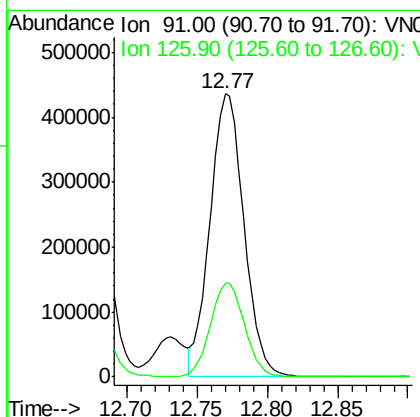
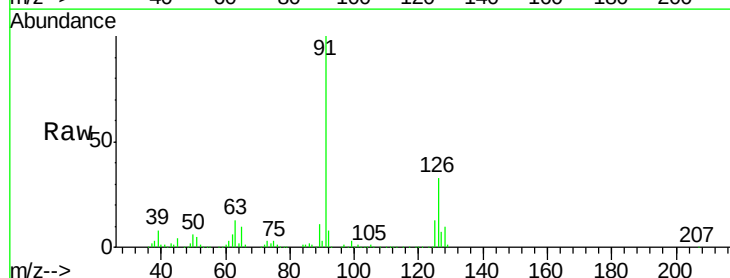
RT: 12.77 min Scan# 3420

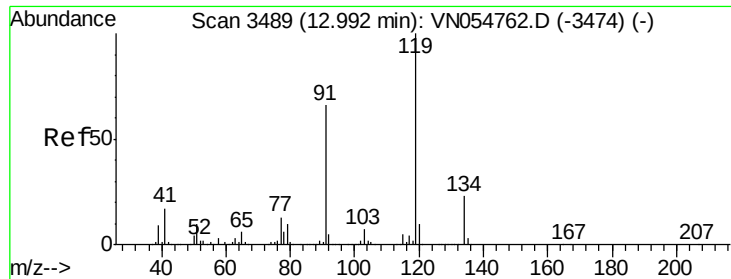
Delta R.T. -0.00 min

Lab File: VN054914.D

Acq: 3 Apr 2019 9:10

Tgt Ion:	91	Resp:	726560
Ion	Ratio	Lower	Upper
91	100		
126	33.6	18.1	54.1





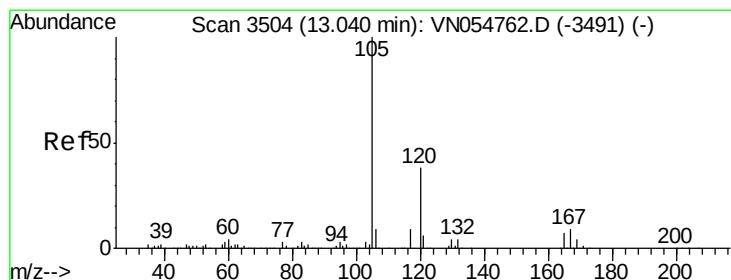
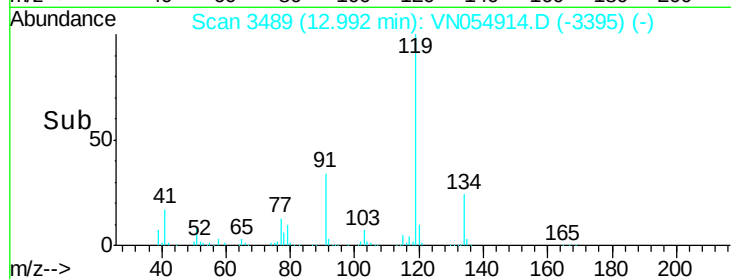
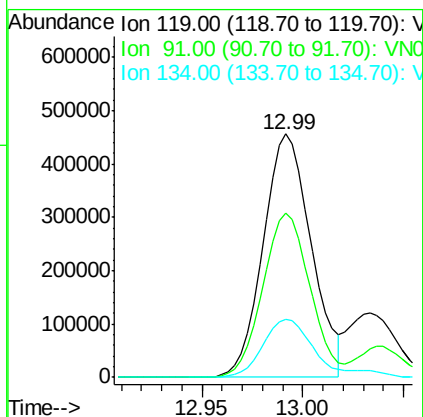
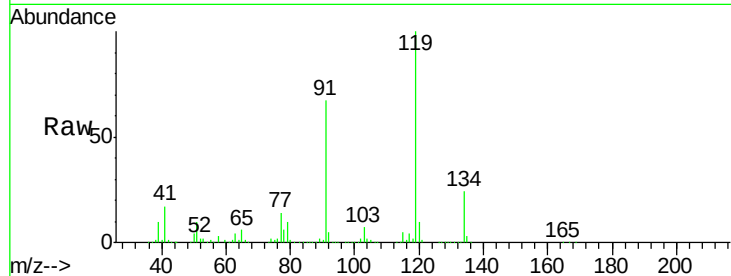
#83
 tert-Butylbenzene
 Concen: 53.134 ug/l
 RT: 12.99 min Scan# 3489
 Delta R.T. 0.00 min
 Lab File: VN054914.D
 Acq: 3 Apr 2019 9:10

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
119	100	754895		
91	66.5	30.9	92.8	
134	26.3	13.2	39.6	

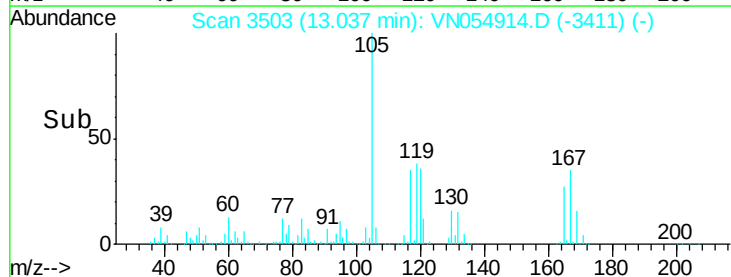
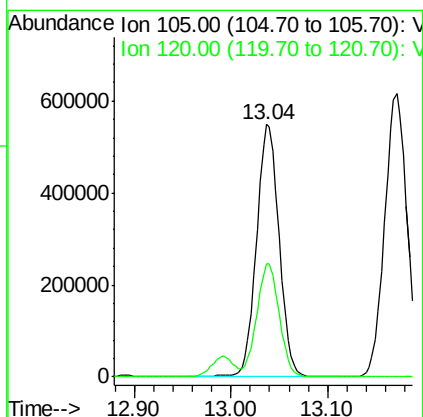
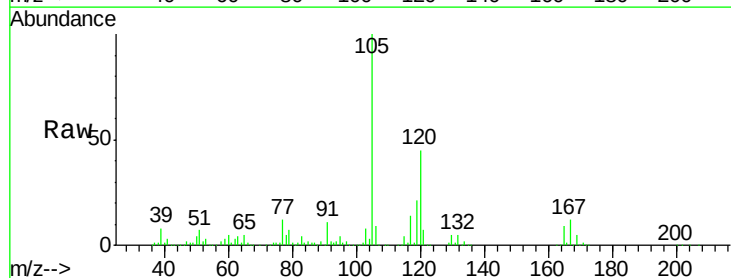
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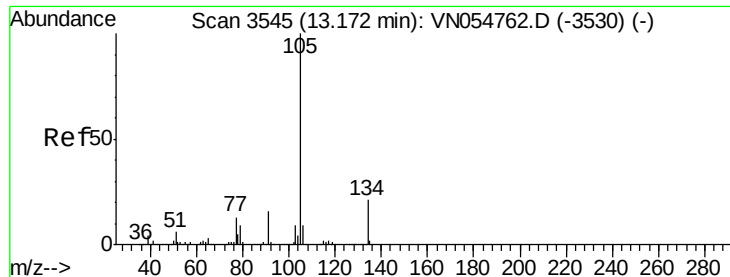
MMDadoda
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#84
 1,2,4-Trimethylbenzene
 Concen: 50.825 ug/l
 RT: 13.04 min Scan# 3503
 Delta R.T. -0.00 min
 Lab File: VN054914.D
 Acq: 3 Apr 2019 9:10

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	890056		
120	44.9	23.4	70.3	





#85

sec-Butylbenzene

Concen: 49.673 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN054914.D

Acq: 3 Apr 2019 9:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 991862

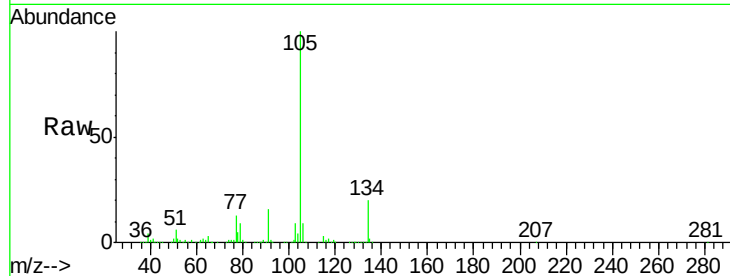
Ion Ratio Lower Upper

105 100

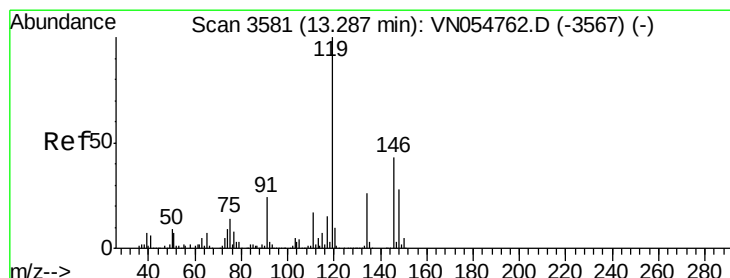
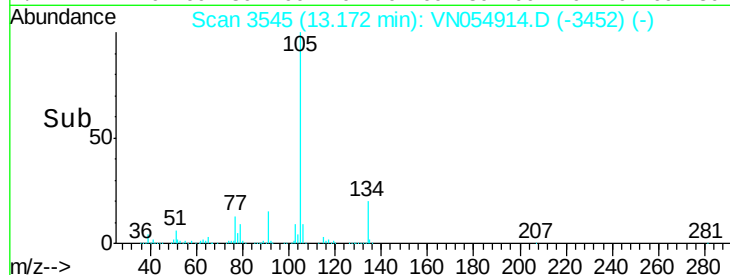
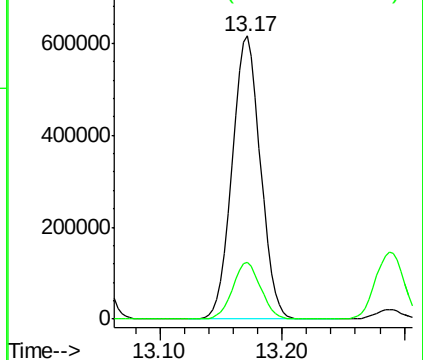
134 19.9 10.7 32.1

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Abundance Ion 105.00 (104.70 to 105.70): V
Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 50.130 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.00 min

Lab File: VN054914.D

Acq: 3 Apr 2019 9:10

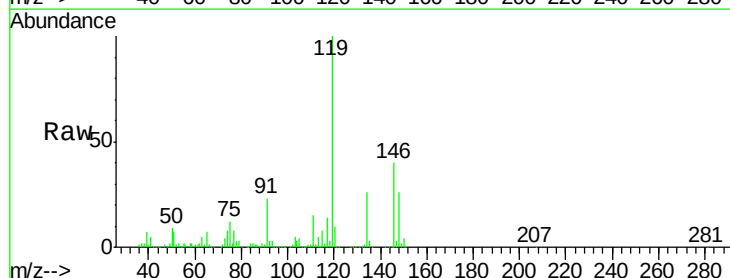
Tgt Ion:119 Resp: 882875

Ion Ratio Lower Upper

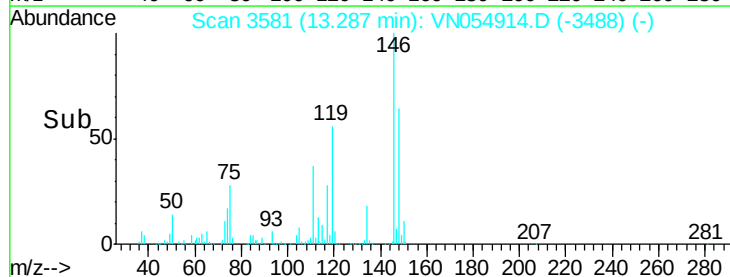
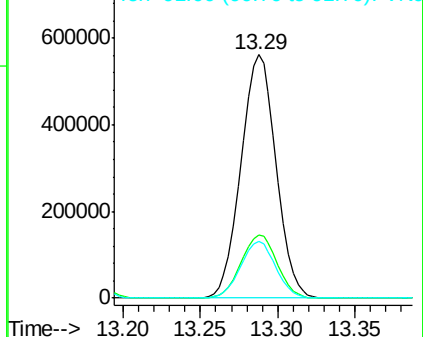
119 100

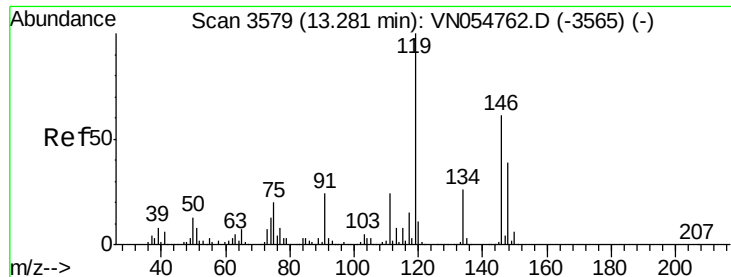
134 26.7 13.6 40.8

91 23.3 11.1 33.3



Abundance Ion 119.00 (118.70 to 119.70): V
Ion 134.00 (133.70 to 134.70): V
Ion 91.00 (90.70 to 91.70): V





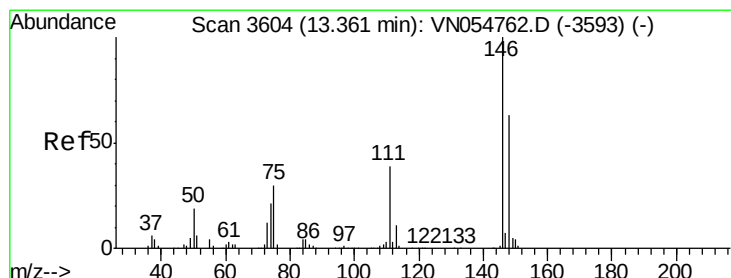
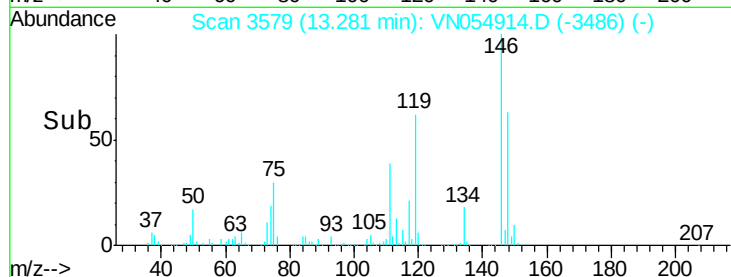
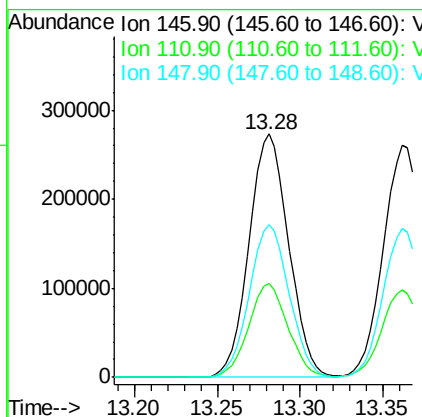
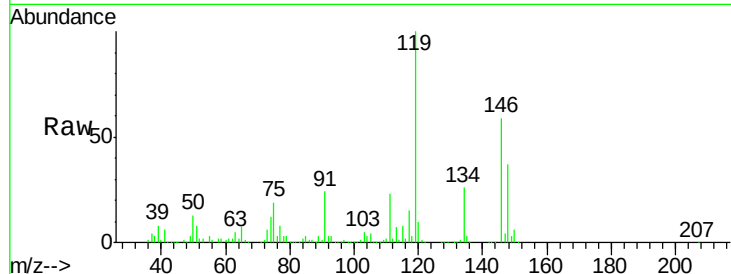
#87
 1,3-Dichlorobenzene
 Concen: 50.208 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. 0.00 min
 Lab File: VN054914.D
 Acq: 3 Apr 2019 9:10

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
146	100	454481		
111	38.1	18.8	56.3	
148	63.1	32.2	96.6	

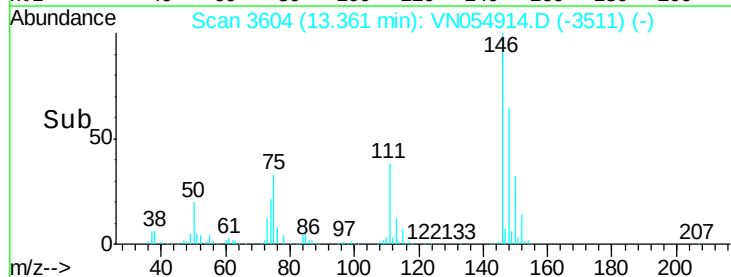
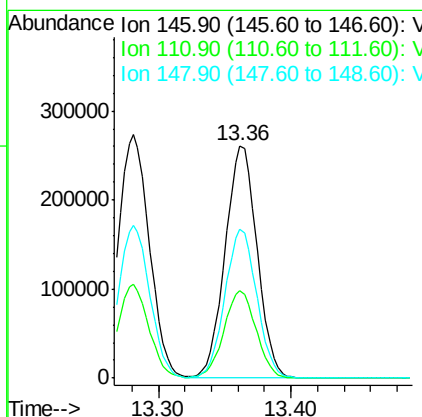
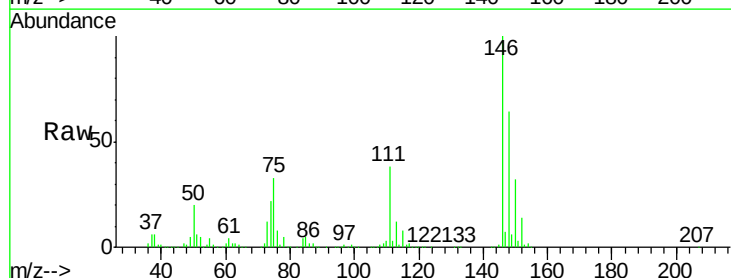
Manual Integrations
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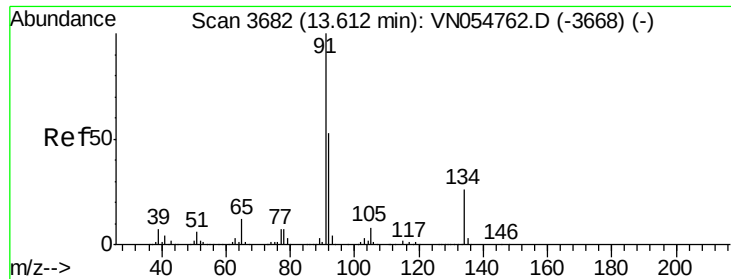
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#88
 1,4-Dichlorobenzene
 Concen: 49.176 ug/l
 RT: 13.36 min Scan# 3604
 Delta R.T. 0.00 min
 Lab File: VN054914.D
 Acq: 3 Apr 2019 9:10

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	436593		
111	37.9	18.1	54.1	
148	64.0	32.0	96.0	





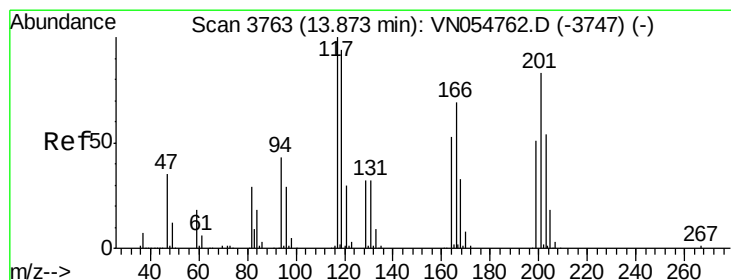
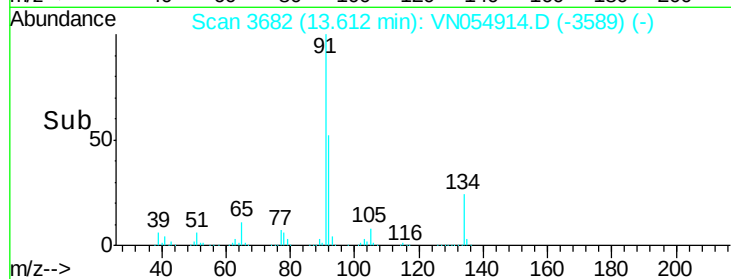
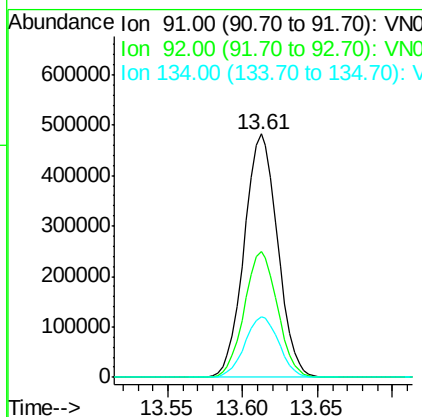
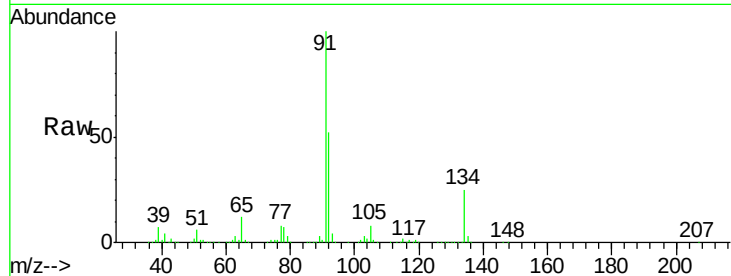
#89
n-Butylbenzene
Concen: 52.137 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. 0.00 min
Lab File: VN054914.D
Acq: 3 Apr 2019 9:10

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.3	26.2	78.6
134	25.4	14.3	42.9

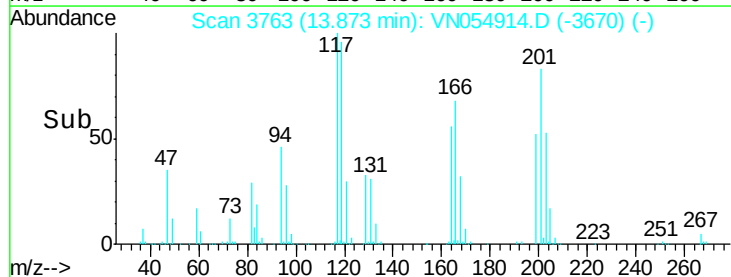
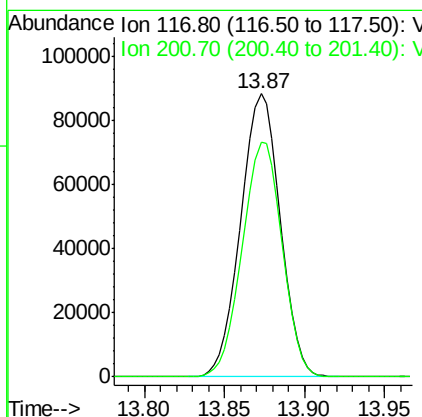
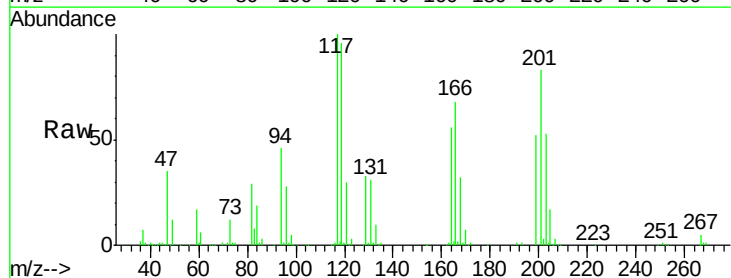
Manual Integrations
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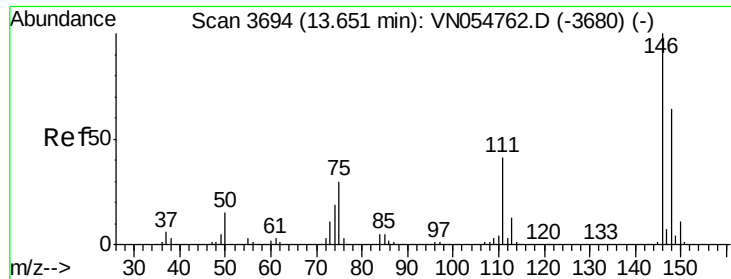
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#90
Hexachloroethane
Concen: 49.720 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. 0.00 min
Lab File: VN054914.D
Acq: 3 Apr 2019 9:10

Tgt Ion	Ratio	Lower	Upper
117	100		
201	83.7	48.1	144.4





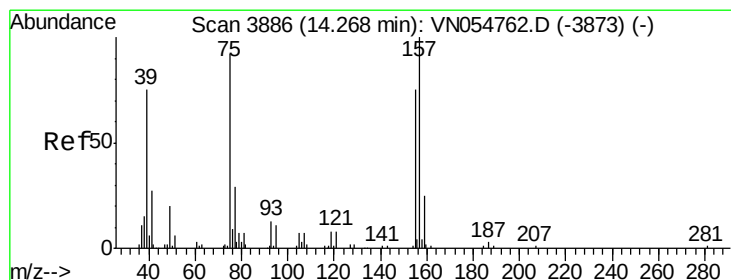
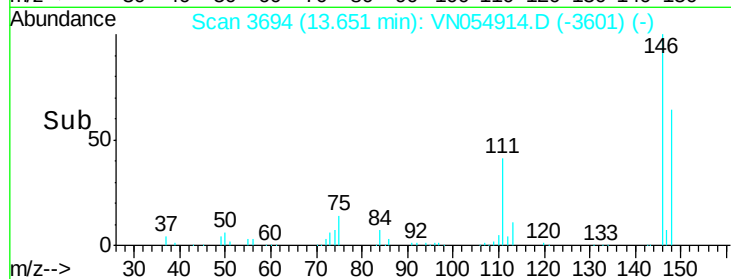
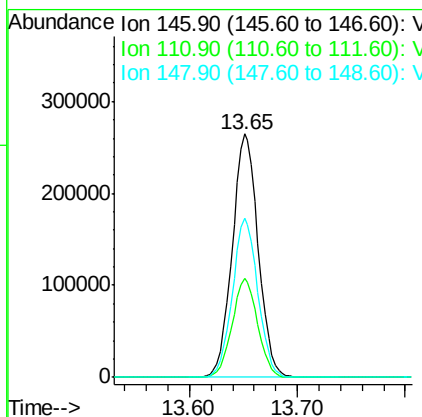
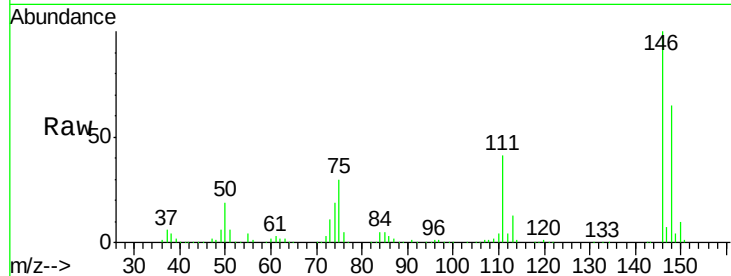
#91
 1,2-Dichlorobenzene
 Concen: 48.442 ug/l
 RT: 13.65 min Scan# 3694
 Delta R.T. 0.00 min
 Lab File: VN054914.D
 Acq: 3 Apr 2019 9:10

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.0	19.1	57.3
148	64.1	32.4	97.0

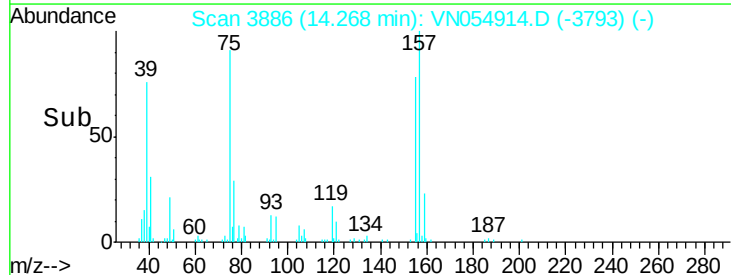
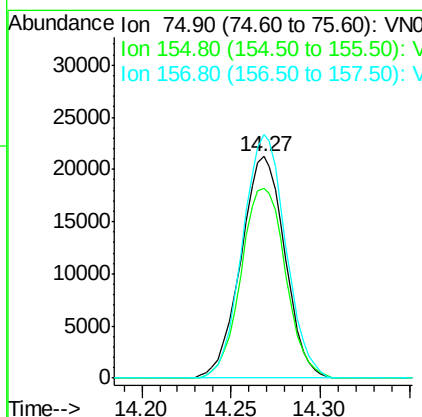
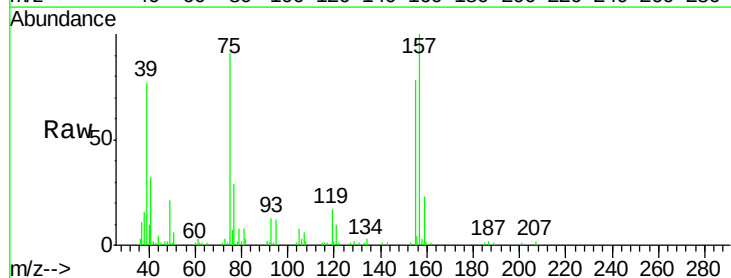
Manual Integrations
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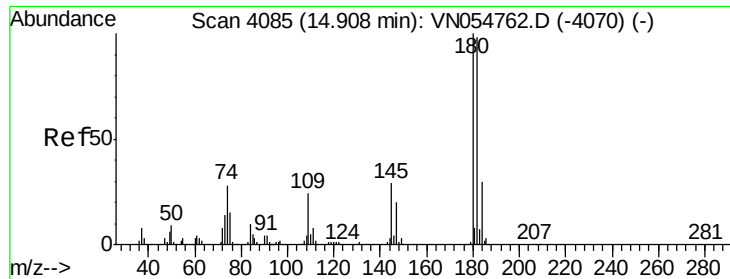
MMDadoda
 4/4/2019 9:31:21 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 47.675 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. 0.00 min
 Lab File: VN054914.D
 Acq: 3 Apr 2019 9:10

Tgt Ion	Ratio	Lower	Upper
75	100		
155	87.0	50.1	150.3
157	107.8	63.1	189.3





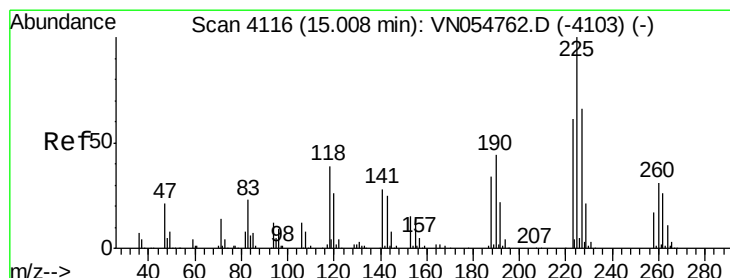
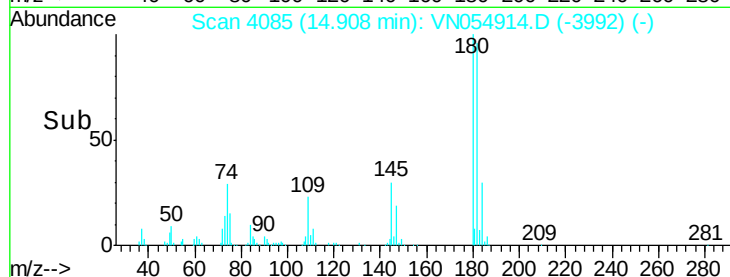
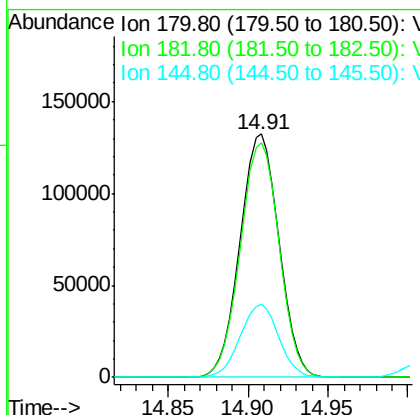
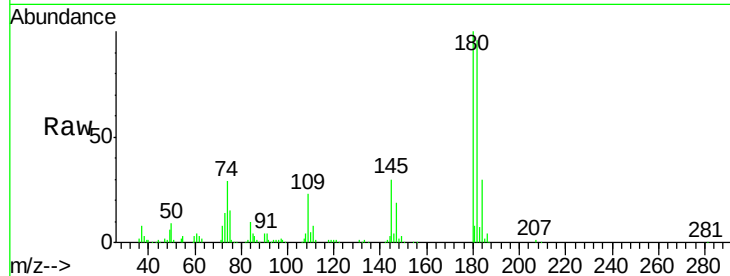
#93
 1,2,4-Trichlorobenzene
 Concen: 49.888 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN054914.D
 Acq: 3 Apr 2019 9:10

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
180	100	219720		
182	96.1	48.0	144.2	
145	29.6	14.2	42.8	

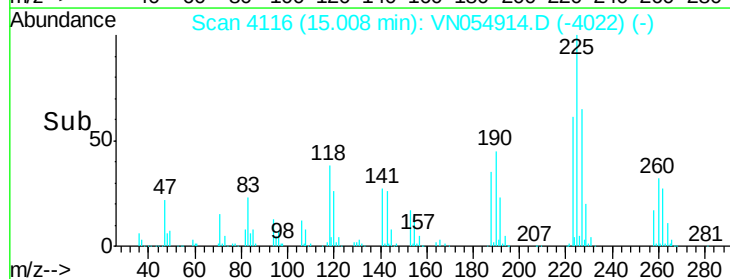
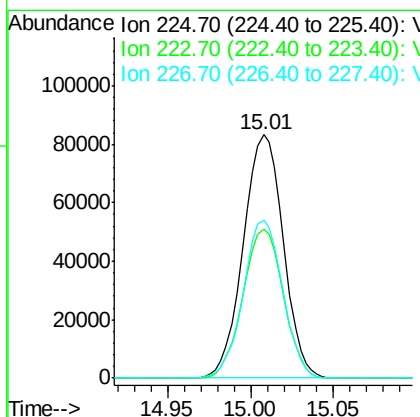
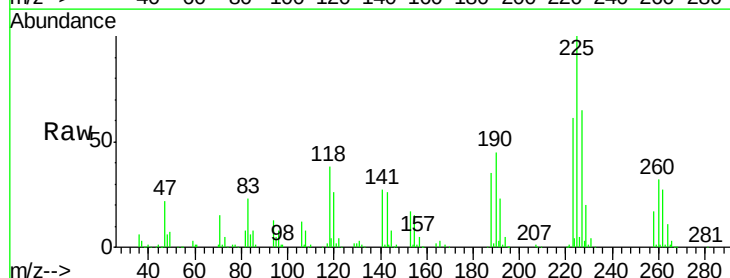
Manual Integrations
 APPROVED

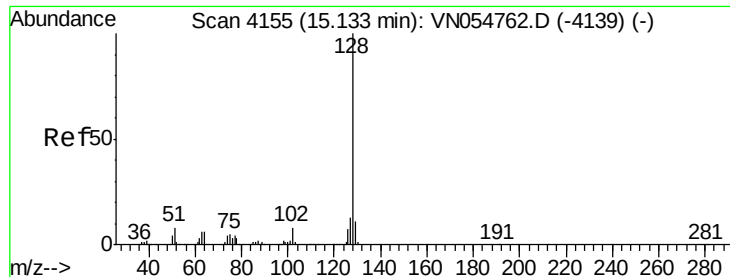
MMDadoda
 4/4/2019 9:31:21 AM



#94
 Hexachlorobutadiene
 Concen: 53.678 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN054914.D
 Acq: 3 Apr 2019 9:10

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	139607		
223	61.9	31.1	93.5	
227	64.0	31.9	95.9	





#95

Naphthalene

Concen: 45.356 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. -0.00 min

Lab File: VN054914.D

Acq: 3 Apr 2019 9:10

Instrument :

MSVOA_N

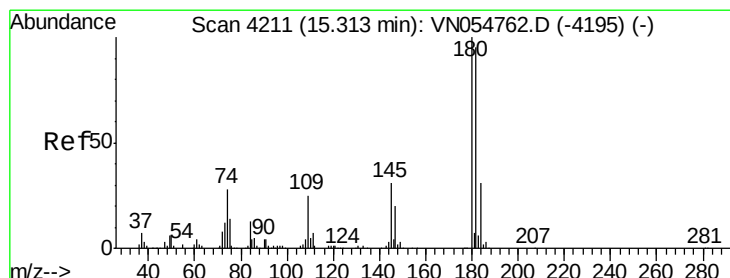
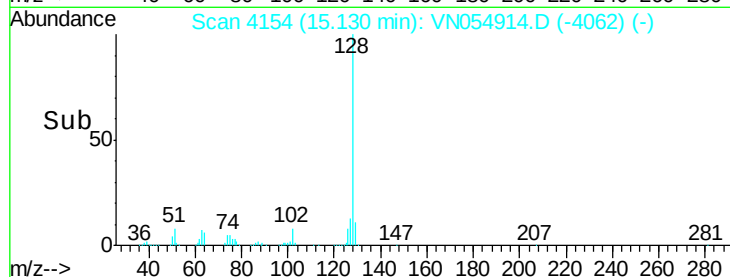
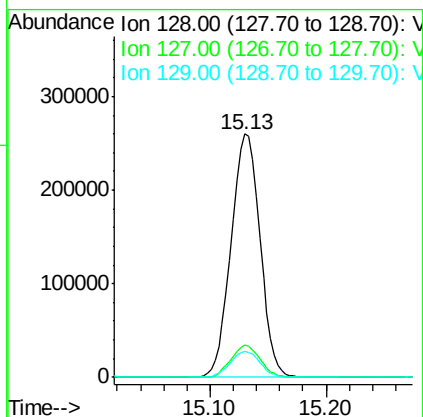
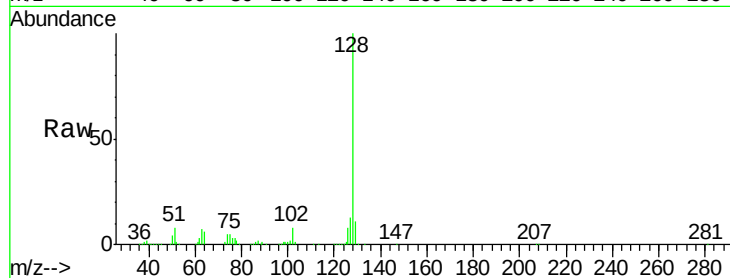
ClientSampleId :

VSTDCCC050

Tot Ion:	128	Resp:	448029
Ion Ratio	Lower	Upper	
128	100		
127	13.2	10.1	15.1
129	10.9	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
4/4/2019 9:31:21 AM



#96

1,2,3-Trichlorobenzene

Concen: 47.704 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN054914.D

Acq: 3 Apr 2019 9:10

Tgt Ion:	180	Resp:	212186
Ion Ratio	Lower	Upper	
180	100		
182	96.1	47.5	142.6
145	31.5	14.8	44.3

