

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121918\
 Data File : VN052997.D
 Acq On : 19 Dec 2018 8:55
 Operator : MD\SY
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 2 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 12/20/2018 9:34:12 AM

Quant Time: Dec 20 05:47:35 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121818W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 18 13:03:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	1156549	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	1702873	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1533316	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	727310	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	590402	50.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.60%	
35) Dibromofluoromethane	7.59	113	452087	58.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	116.24%	
50) Toluene-d8	10.09	98	2209201	52.90	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.80%	
62) 4-Bromofluorobenzene	12.40	95	775052	52.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.74%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	564076	48.190	ug/l	99
3) Chloromethane	2.06	50	674685	47.566	ug/l	100
4) Vinyl Chloride	2.19	62	689881	48.024	ug/l	100
5) Bromomethane	2.57	94	455640	45.780	ug/l	100
6) Chloroethane	2.71	64	404534	47.548	ug/l	98
7) Trichlorofluoromethane	3.02	101	862522	48.198	ug/l	98
8) Diethyl Ether	3.41	74	324707	48.096	ug/l	95
9) 1,1,2-Trichlorotrifluoroet	3.77	101	557579	48.867	ug/l	98
10) Methyl Iodide	3.96	142	789477	49.270	ug/l	100
11) Tert butyl alcohol	4.77	59	171969	240.136	ug/l	100
12) 1,1-Dichloroethene	3.74	96	523240	47.466	ug/l	99
13) Acrolein	3.61	56	229576	353.550	ug/l	100
14) Allyl chloride	4.33	41	818597	47.941	ug/l	98
15) Acrylonitrile	4.98	53	934975	235.009	ug/l	99
16) Acetone	3.81	43	515241	223.900	ug/l	97
17) Carbon Disulfide	4.06	76	1573574	43.771	ug/l	99
18) Methyl Acetate	4.32	43	475654	45.629	ug/l	98
19) Methyl tert-butyl Ether	5.04	73	1431111	48.513	ug/l	98
20) Methylene Chloride	4.55	84	596875	47.549	ug/l	98
21) trans-1,2-Dichloroethene	5.04	96	564117	47.630	ug/l	98
22) Diisopropyl ether	5.95	45	1797242	49.311	ug/l	98
23) Vinyl Acetate	5.89	43	5193849	247.822	ug/l	98
24) 1,1-Dichloroethane	5.85	63	1038436	47.948	ug/l	99
25) 2-Butanone	6.83	43	949036	245.737	ug/l	98
26) 2,2-Dichloropropane	6.82	77	810189	49.005	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	643381	47.983	ug/l	100
28) Bromochloromethane	7.19	49	460094	49.026	ug/l	95
29) Tetrahydrofuran	7.21	42	690116	239.257	ug/l	97
30) Chloroform	7.37	83	1022204	48.046	ug/l	100
31) Cyclohexane	7.65	56	1010520	49.744	ug/l	99
32) 1,1,1-Trichloroethane	7.57	97	864305	47.689	ug/l	100
36) 1,1-Dichloropropene	7.79	75	814745	49.848	ug/l	100
37) Ethyl Acetate	6.93	43	469947	51.505	ug/l	99
38) Carbon Tetrachloride	7.77	117	751351	50.152	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	1022125	51.478	ug/l	98
40) Benzene	8.04	78	2436387	50.114	ug/l	99
41) Methacrylonitrile	7.17	41	267047	50.654	ug/l	97
42) 1,2-Dichloroethane	8.12	62	710495	49.470	ug/l	99
43) Isopropyl Acetate	8.16	43	883959	50.063	ug/l	98
44) Trichloroethene	8.84	130	697407	49.596	ug/l	96
45) 1,2-Dichloropropane	9.12	63	639631	50.511	ug/l	100
46) Dibromomethane	9.21	93	366387	49.667	ug/l	98
47) Bromodichloromethane	9.40	83	780647	49.783	ug/l	100
48) Methyl methacrylate	9.20	41	447006	50.486	ug/l	99
49) 1,4-Dioxane	9.20	88	107766	962.200	ug/l	97
51) 4-Methyl-2-Pentanone	9.98	43	2277063	257.696	ug/l	99
52) Toluene	10.16	92	1536127	50.976	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	830307	50.355	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	963496	50.907	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	524174	49.860	ug/l	100
56) Ethyl methacrylate	10.43	69	719093	51.679	ug/l	97
57) 1,3-Dichloropropane	10.71	76	912490	50.616	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.69	63	1968420	257.676	ug/l	99
59) 2-Hexanone	10.75	43	1579291	264.164	ug/l	100
60) Dibromochloromethane	10.90	129	601595	49.992	ug/l	100
61) 1,2-Dibromoethane	11.01	107	538499	50.436	ug/l	99
64) Tetrachloroethene	10.63	164	809163	48.718	ug/l	99
65) Chlorobenzene	11.43	112	1702028	50.075	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	592757	50.150	ug/l	100
67) Ethyl Benzene	11.51	91	2961716	50.669	ug/l	100
68) m/p-Xylenes	11.62	106	2251567	101.325	ug/l	100
69) o-Xylene	11.95	106	1088061	51.027	ug/l	100
70) Styrene	11.96	104	1795782	51.648	ug/l	100
71) Bromoform	12.13	173	417082	48.846	ug/l #	100
73) Isopropylbenzene	12.25	105	2905756	51.063	ug/l	100
74) N-amyl acetate	12.07	43	809790	51.256	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.50	83	571277	51.171	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	530059m	43.293	ug/l	
77) Bromobenzene	12.53	156	741707	50.142	ug/l	97
78) n-propylbenzene	12.59	91	3341423	51.557	ug/l	100
79) 2-Chlorotoluene	12.68	91	1932805	48.113	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	2340180	50.453	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	192791	50.752	ug/l	96
82) 4-Chlorotoluene	12.77	91	1988502	50.566	ug/l	100
83) tert-Butylbenzene	12.99	119	2046351	49.885	ug/l	100
84) 1,2,4-Trimethylbenzene	13.04	105	2360893	50.633	ug/l	100
85) sec-Butylbenzene	13.17	105	2789772	50.279	ug/l	100
86) p-Isopropyltoluene	13.29	119	2420289	50.481	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	1292787	49.380	ug/l	100
88) 1,4-Dichlorobenzene	13.36	146	1289749	48.647	ug/l	100
89) n-Butylbenzene	13.62	91	2052248	49.755	ug/l	100
90) Hexachloroethane	13.88	117	370268	50.326	ug/l	98
91) 1,2-Dichlorobenzene	13.65	146	1214028	49.271	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	88214	45.699	ug/l	97

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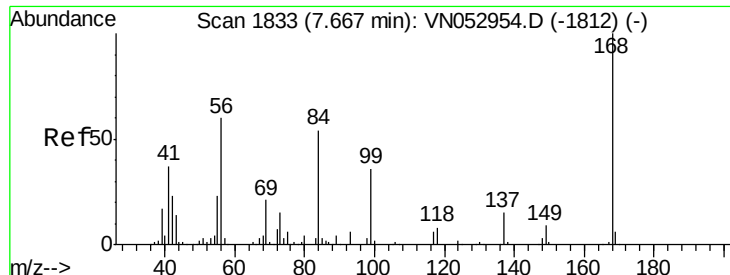
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	627556	48.096	ug/l	99
94) Hexachlorobutadiene	15.01	225	372179	55.372	ug/l	100
95) Naphthalene	15.13	128	1286845	45.115	ug/l	100
96) 1,2,3-Trichlorobenzene	15.32	180	551810	46.972	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN052997.D

Acq: 19 Dec 2018 8:55

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 1156549

Ion Ratio Lower Upper

168 100

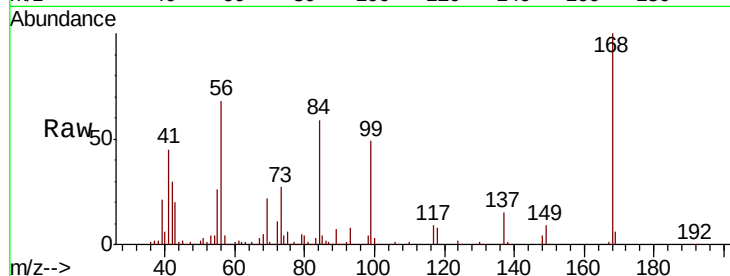
99 48.8 40.2 60.2

Manual Integrations

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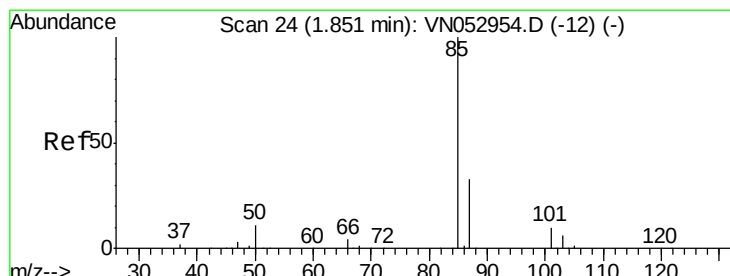
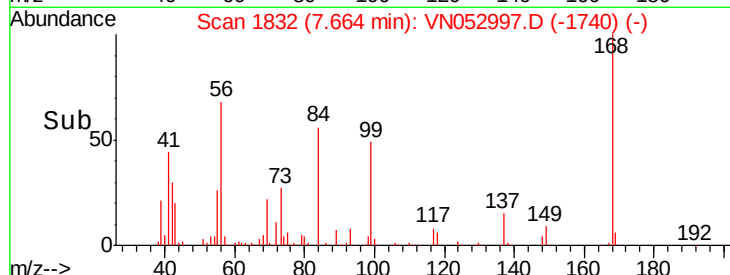
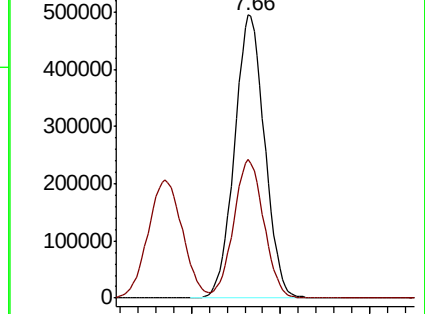
MMDadoda

12/20/2018 9:34:12 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#2

Dichlorodifluoromethane

Concen: 48.190 ug/l

RT: 1.85 min Scan# 24

Delta R.T. -0.00 min

Lab File: VN052997.D

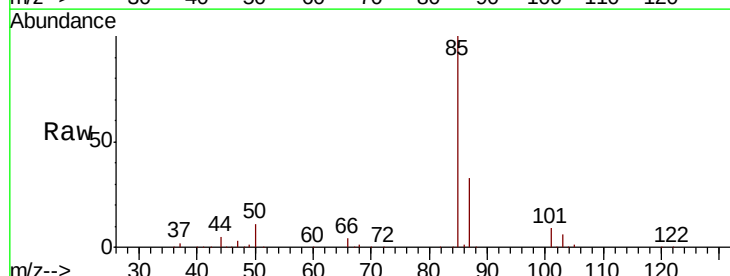
Acq: 19 Dec 2018 8:55

Tgt Ion: 85 Resp: 564076

Ion Ratio Lower Upper

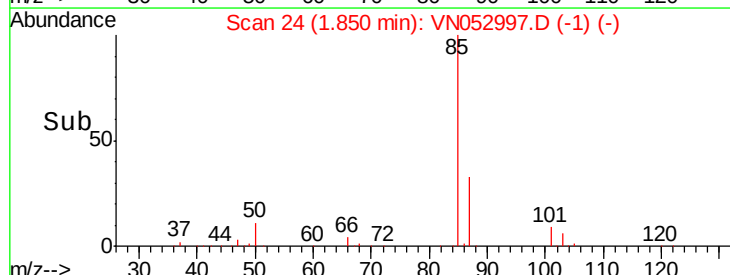
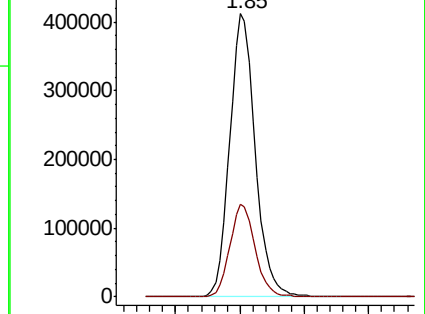
85 100

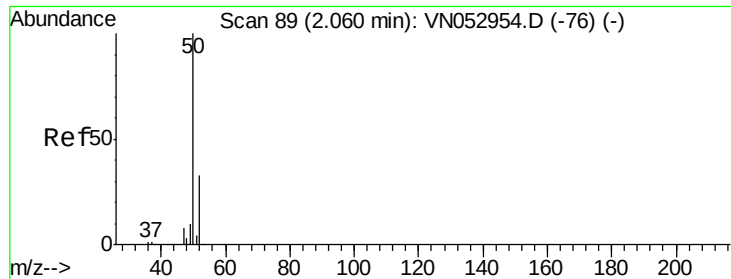
87 32.9 16.3 48.8



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO





#3

Chloromethane

Concen: 47.566 ug/l

RT: 2.06 min Scan# 89

Delta R.T. -0.00 min

Lab File: VN052997.D

Acq: 19 Dec 2018 8:55

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 674685

Ion Ratio Lower Upper

50 100

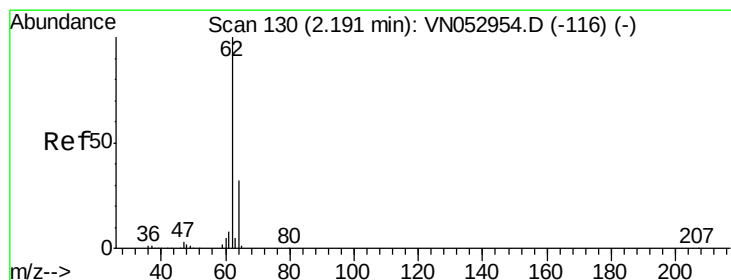
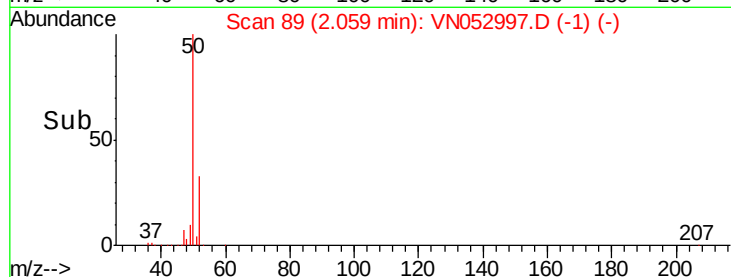
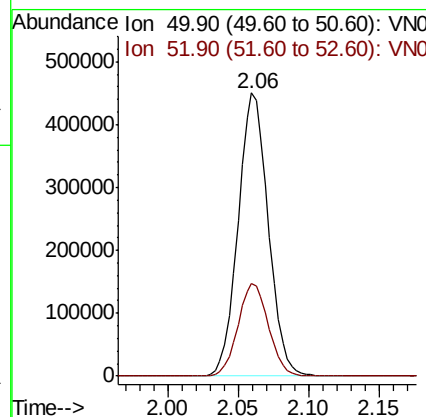
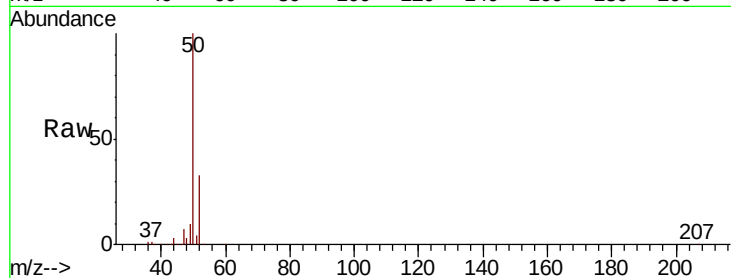
52 32.6 26.2 39.4

Manual Integrations

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#4

Vinyl Chloride

Concen: 48.024 ug/l

RT: 2.19 min Scan# 130

Delta R.T. -0.00 min

Lab File: VN052997.D

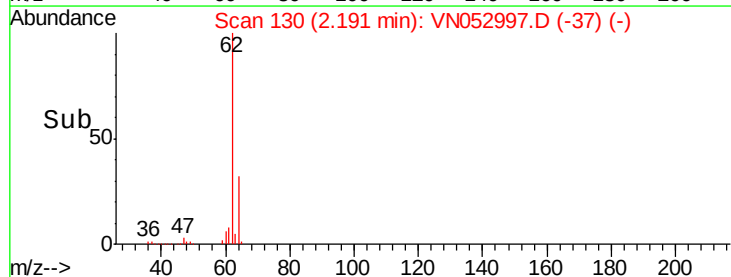
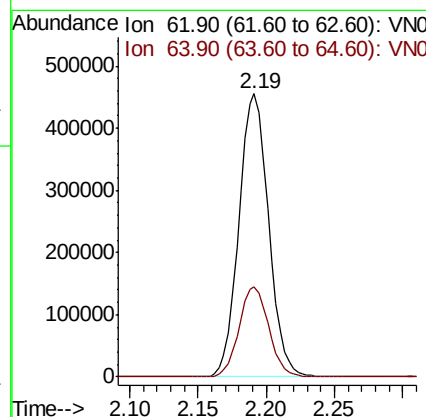
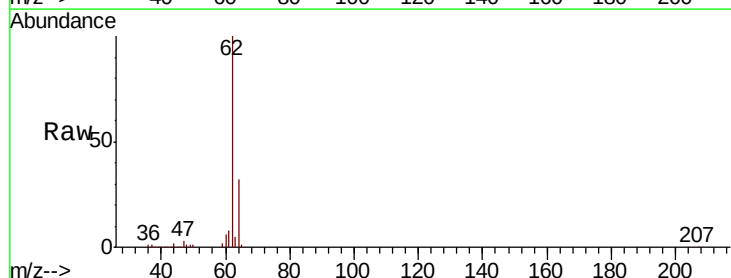
Acq: 19 Dec 2018 8:55

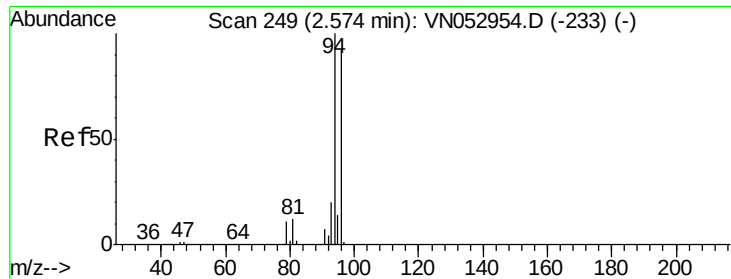
Tgt Ion: 62 Resp: 689881

Ion Ratio Lower Upper

62 100

64 31.8 25.5 38.3





#5

Bromomethane

Concen: 45.780 ug/l

RT: 2.57 min Scan# 249

Delta R.T. -0.00 min

Lab File: VN052997.D

Acq: 19 Dec 2018 8:55

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 94 Resp: 455640

Ion Ratio Lower Upper

94 100

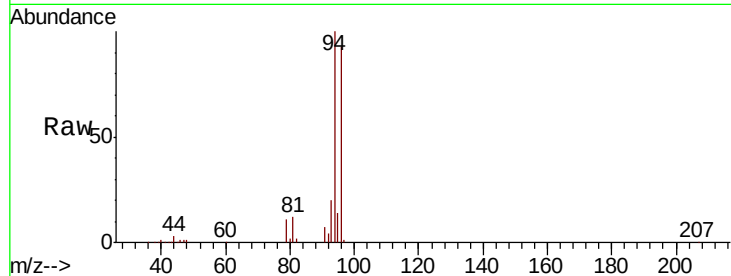
96 93.3 75.0 112.4

Manual Integrations

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Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.57

250000

200000

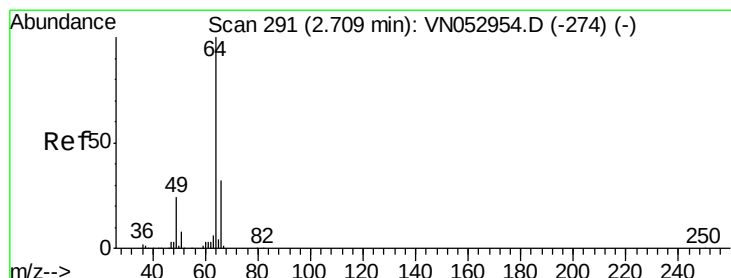
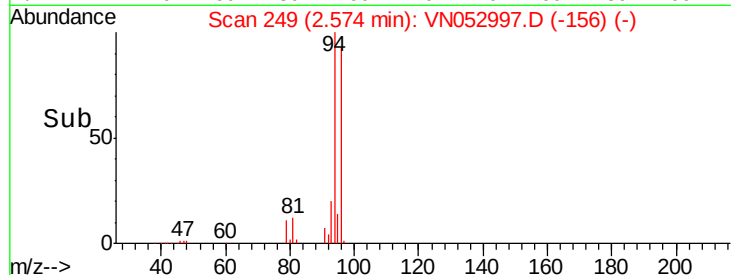
150000

100000

50000

0

Time-->



#6

Chloroethane

Concen: 47.548 ug/l

RT: 2.71 min Scan# 291

Delta R.T. -0.00 min

Lab File: VN052997.D

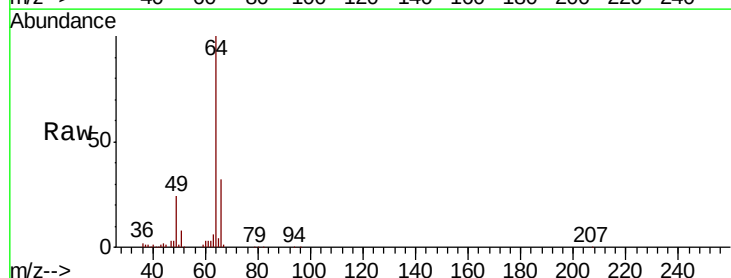
Acq: 19 Dec 2018 8:55

Tgt Ion: 64 Resp: 404534

Ion Ratio Lower Upper

64 100

66 31.7 26.2 39.2



Abundance Ion 63.90 (63.60 to 64.60): VNO

Ion 65.90 (65.60 to 66.60): VNO

2.71

200000

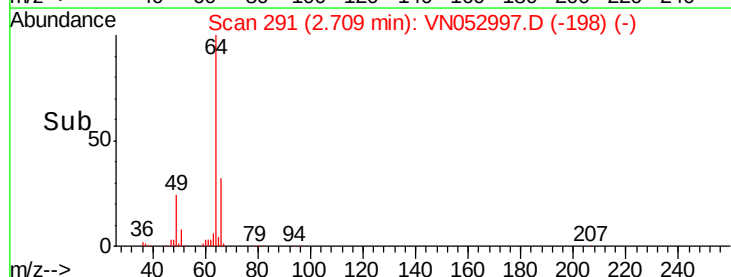
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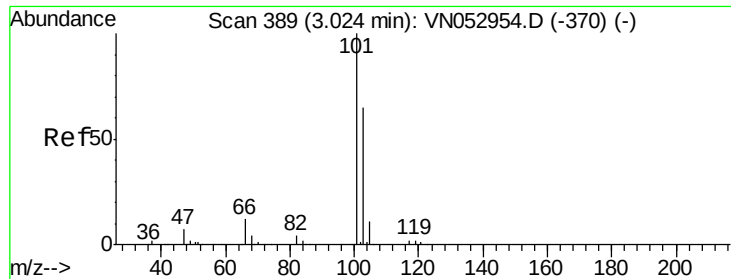
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50000

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Time-->





#7

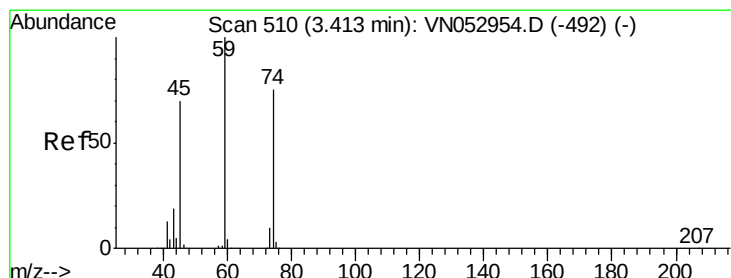
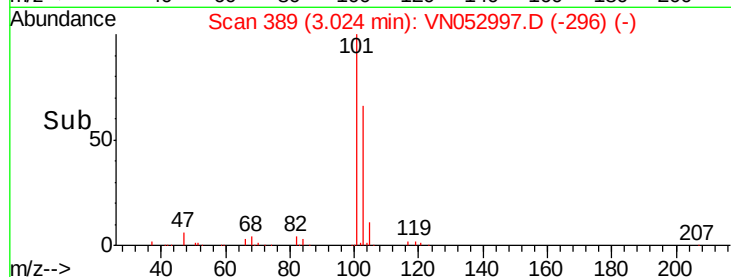
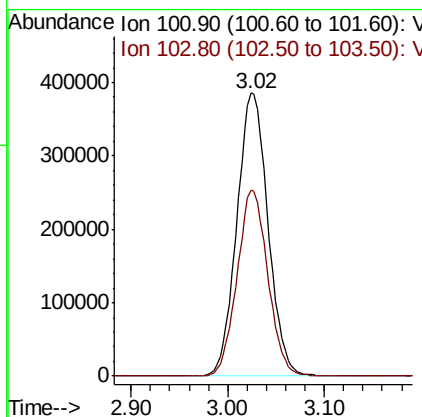
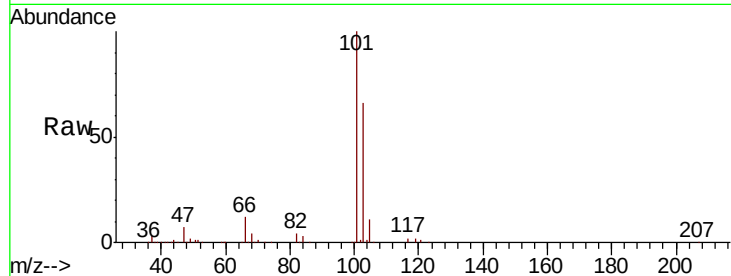
Trichlorofluoromethane
 Concen: 48.198 ug/l
 RT: 3.02 min Scan# 389
 Delta R.T. -0.00 min
 Lab File: VN052997.D
 Acq: 19 Dec 2018 8:55

Instrument :
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Tot Ion	Ratio	Lower	Upper
101	100		
103	65.9	51.8	77.6

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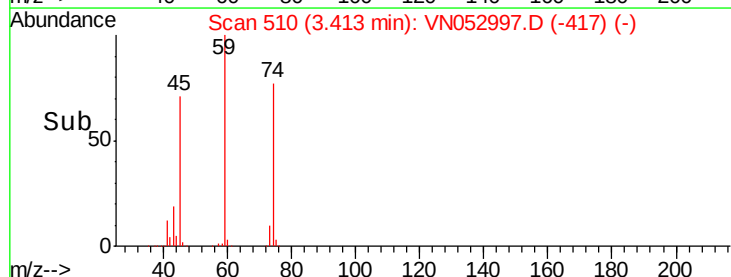
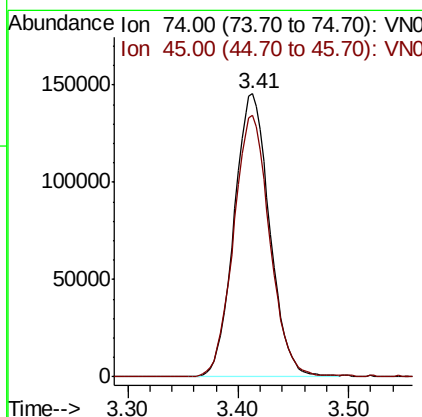
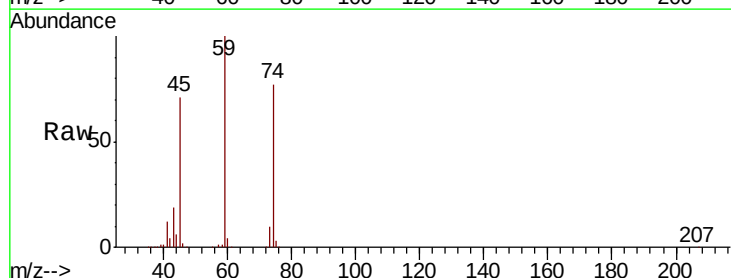
MMDadoda
 12/20/2018 9:34:12 AM

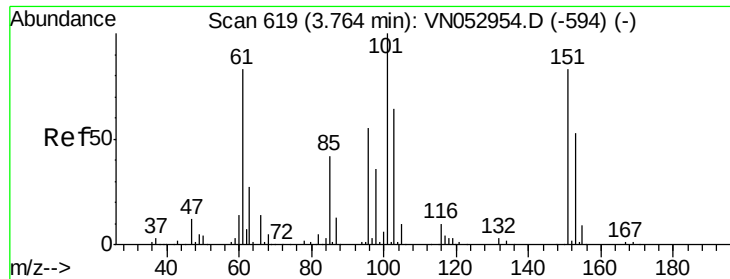


#8

Diethyl Ether
 Concen: 48.096 ug/l
 RT: 3.41 min Scan# 510
 Delta R.T. -0.00 min
 Lab File: VN052997.D
 Acq: 19 Dec 2018 8:55

Tgt Ion	Ratio	Lower	Upper
74	100		
45	93.8	49.4	148.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 48.867 ug/l

RT: 3.77 min Scan# 620

Delta R.T. 0.00 min

Lab File: VN052997.D

Acq: 19 Dec 2018 8:55

Instrument :

MSVOA_N

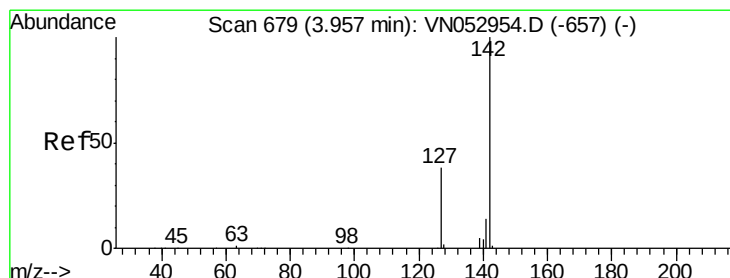
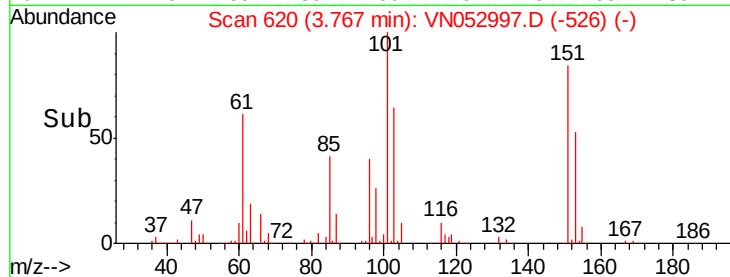
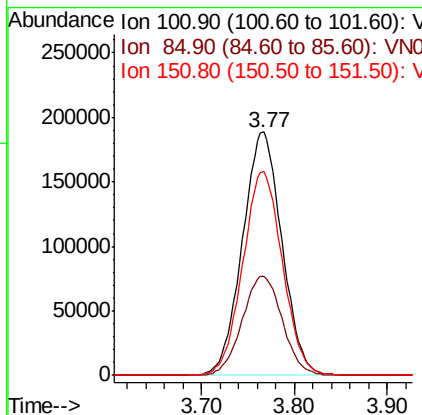
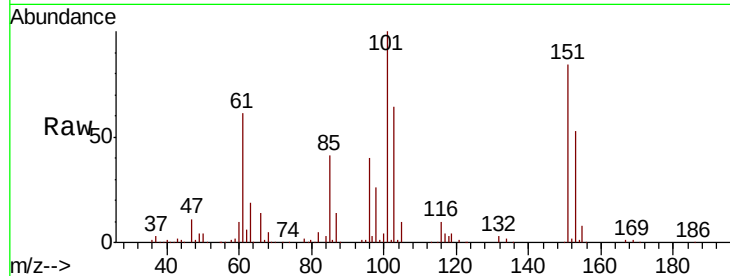
ClientSampleId :

VSTDCCC050

Tot Ion:	101	Resp:	557579
Ion Ratio	Lower	Upper	
101	100		
85	41.5	33.6	50.4
151	84.3	65.5	98.3

Manual Integrations
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MMDadoda
12/20/2018 9:34:12 AM



#10

Methyl Iodide

Concen: 49.270 ug/l

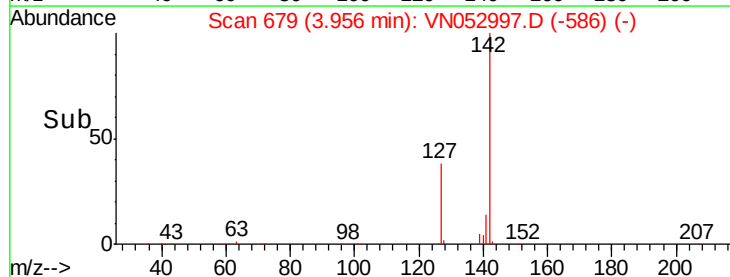
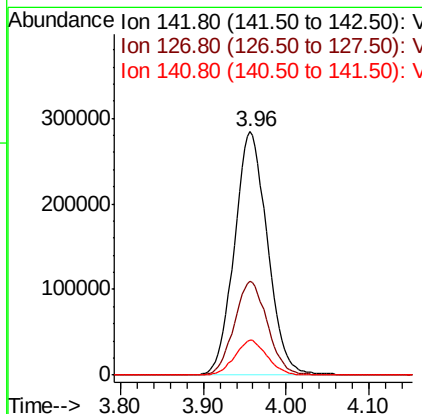
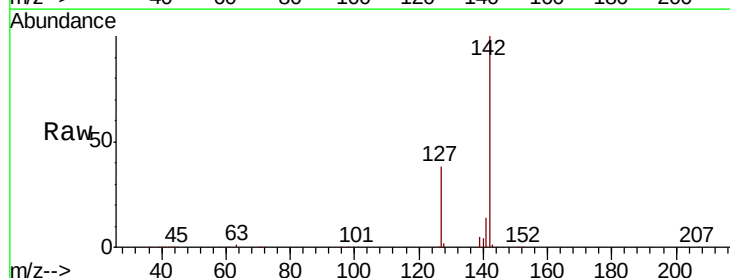
RT: 3.96 min Scan# 679

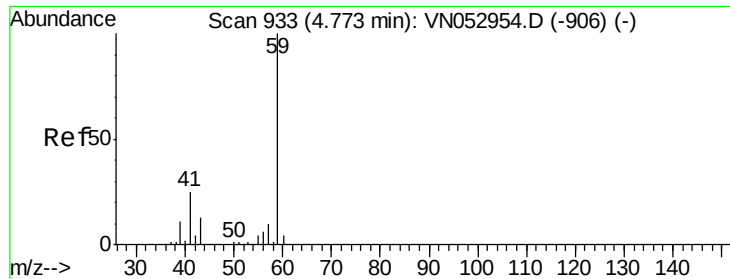
Delta R.T. -0.00 min

Lab File: VN052997.D

Acq: 19 Dec 2018 8:55

Tgt Ion:	142	Resp:	789477
Ion Ratio	Lower	Upper	
142	100		
127	38.5	31.0	46.6
141	14.0	11.2	16.8





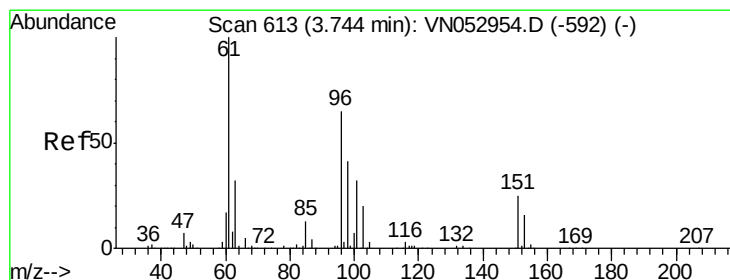
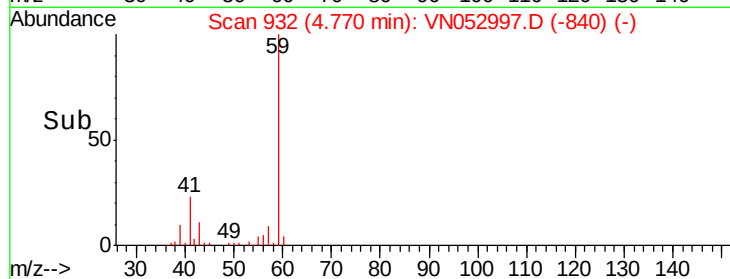
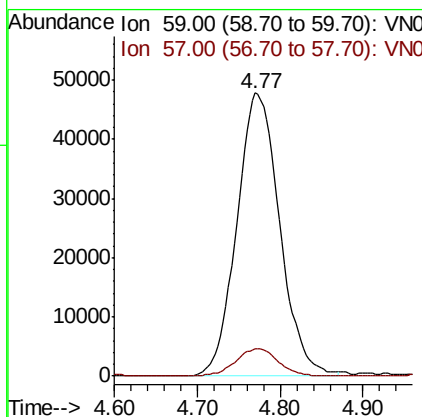
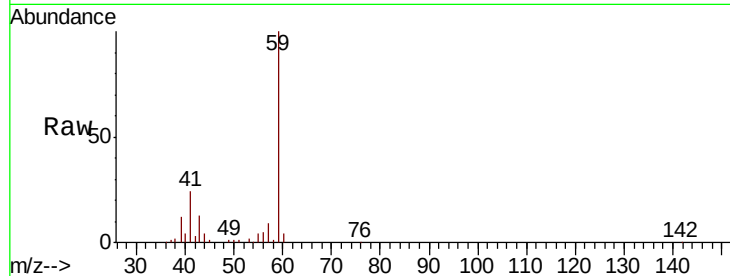
#11
Tert butyl alcohol
Concen: 240.136 ug/l
RT: 4.77 min Scan# 932
Delta R.T. -0.00 min
Lab File: VN052997.D
Acq: 19 Dec 2018 8:55

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
59	100		
57	9.6	7.7	11.5

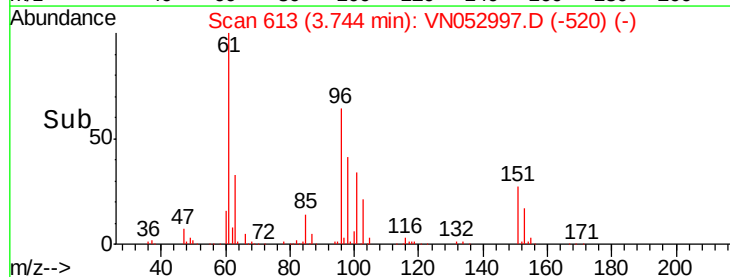
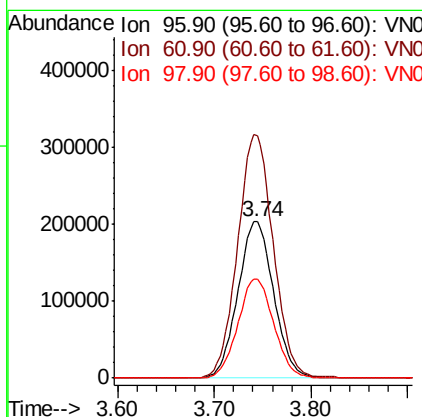
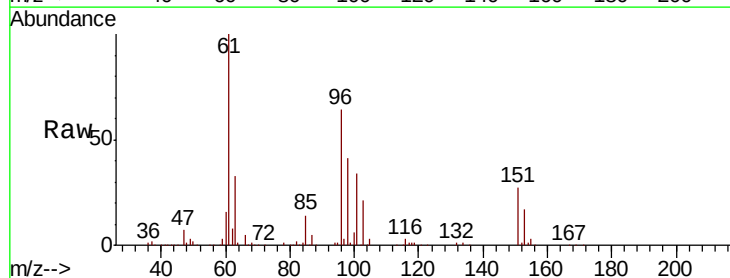
Manual Integrations
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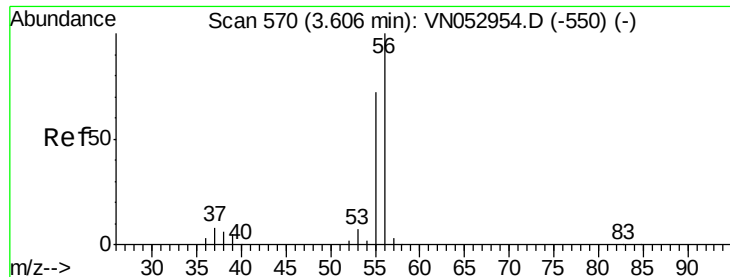
MMDadoda
12/20/2018 9:34:12 AM



#12
1,1-Dichloroethene
Concen: 47.466 ug/l
RT: 3.74 min Scan# 613
Delta R.T. -0.00 min
Lab File: VN052997.D
Acq: 19 Dec 2018 8:55

Tgt Ion	Ratio	Lower	Upper
96	100		
61	155.2	125.6	188.4
98	63.2	50.6	75.8





#13

Acrolein

Concen: 353.550 ug/l

RT: 3.61 min Scan# 570

Delta R.T. -0.00 min

Lab File: VN052997.D

Acq: 19 Dec 2018 8:55

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 229576

Ion Ratio Lower Upper

56 100

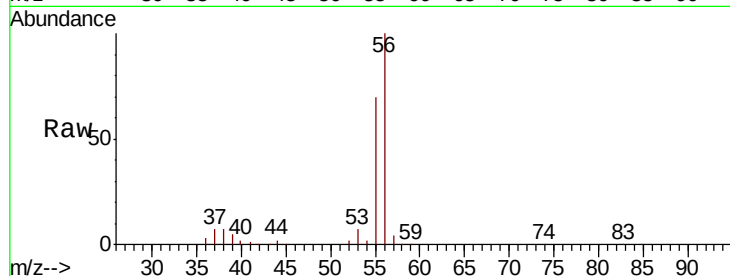
55 70.7 56.6 85.0

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

100000

80000

60000

40000

20000

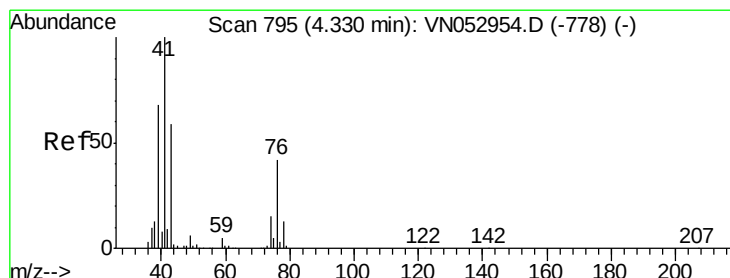
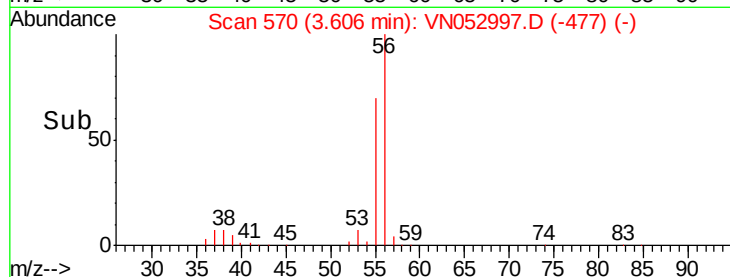
0

3.50

3.60

3.70

Time-->



#14

Allyl chloride

Concen: 47.941 ug/l

RT: 4.33 min Scan# 794

Delta R.T. -0.00 min

Lab File: VN052997.D

Acq: 19 Dec 2018 8:55

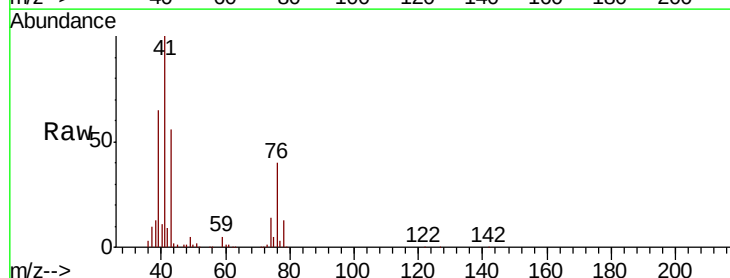
Tgt Ion: 41 Resp: 818597

Ion Ratio Lower Upper

41 100

39 66.5 54.1 81.1

76 39.3 30.3 45.5



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

300000

200000

100000

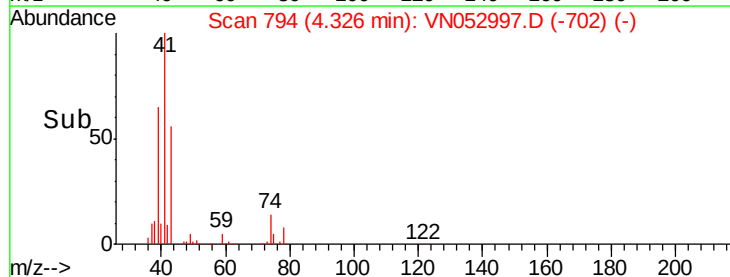
0

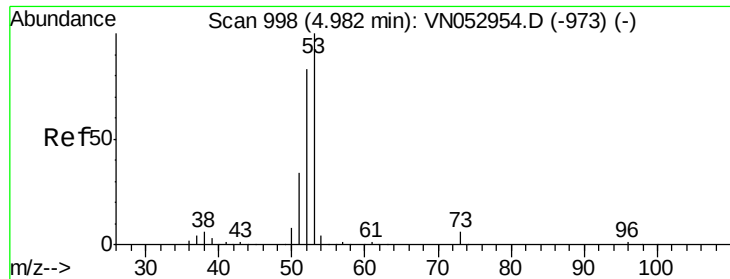
4.20

4.30

4.40

Time-->





#15

Acrylonitrile

Concen: 235.009 ug/l

RT: 4.98 min Scan# 998

Delta R.T. -0.00 min

Lab File: VN052997.D

Acq: 19 Dec 2018 8:55

Instrument :

MSVOA_N

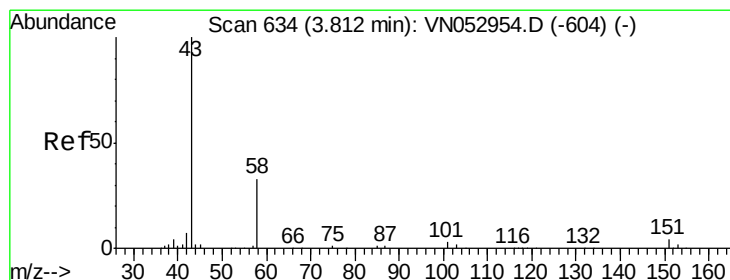
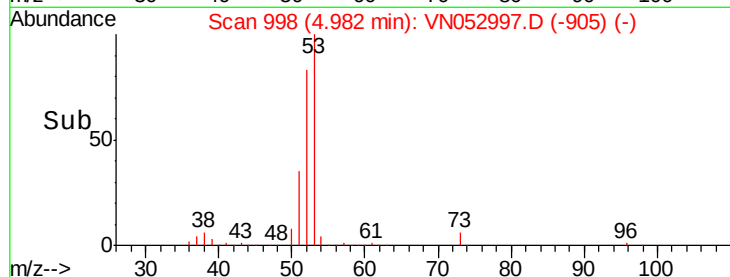
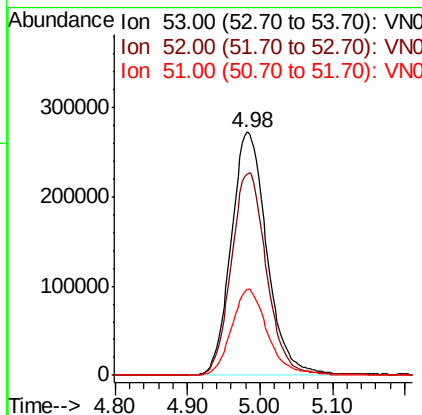
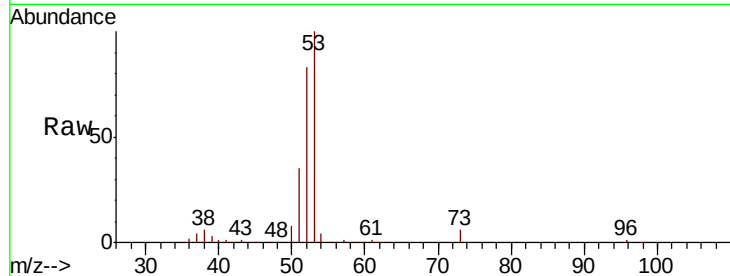
ClientSampleId :

VSTDCCC050

Tot Ion:	53	Resp:	934975
Ion Ratio	Lower	Upper	
53	100		
52	82.6	65.1	97.7
51	35.9	28.1	42.1

Manual Integrations
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#16

Acetone

Concen: 223.900 ug/l

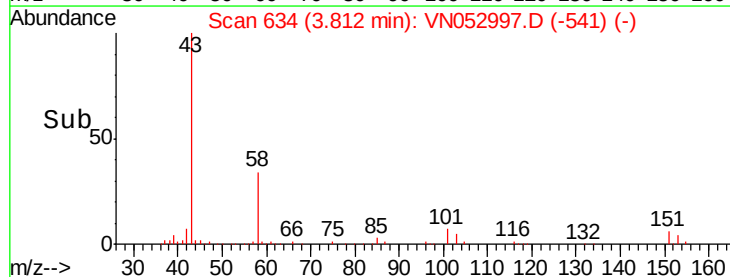
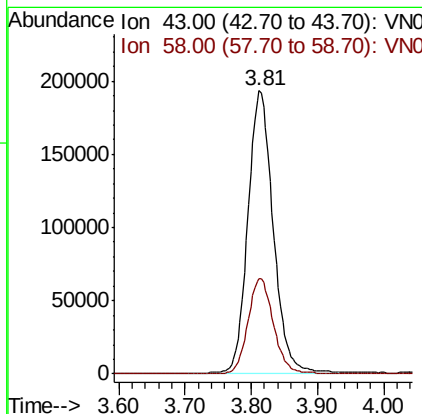
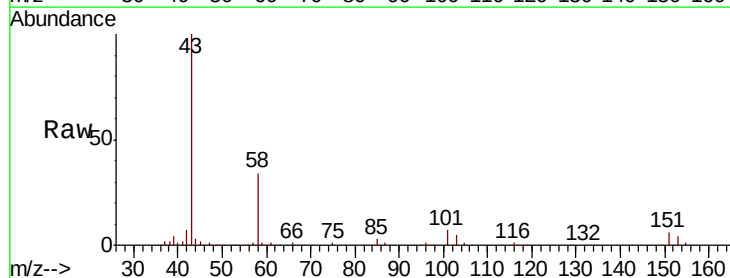
RT: 3.81 min Scan# 634

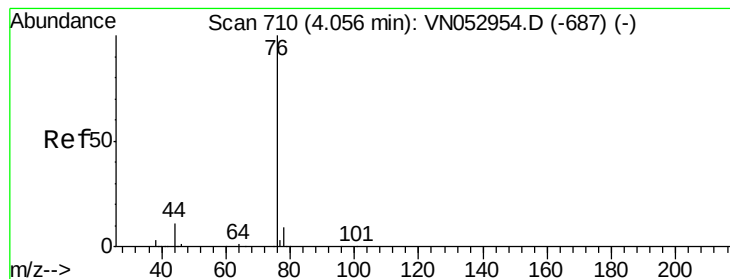
Delta R.T. -0.00 min

Lab File: VN052997.D

Acq: 19 Dec 2018 8:55

Tgt Ion:	43	Resp:	515241
Ion Ratio	Lower	Upper	
43	100		
58	33.6	25.4	38.0





#17

Carbon Disulfide

Concen: 43.771 ug/l

RT: 4.06 min Scan# 711

Delta R.T. 0.00 min

Lab File: VN052997.D

Acq: 19 Dec 2018 8:55

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 76 Resp: 1573574

Ion Ratio Lower Upper

76 100

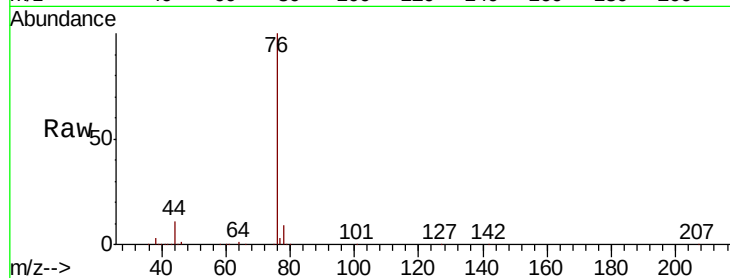
78 9.1 7.1 10.7

Manual Integrations

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Abundance Ion 75.90 (75.60 to 76.60): VNO

Ion 77.90 (77.60 to 78.60): VNO

4.06

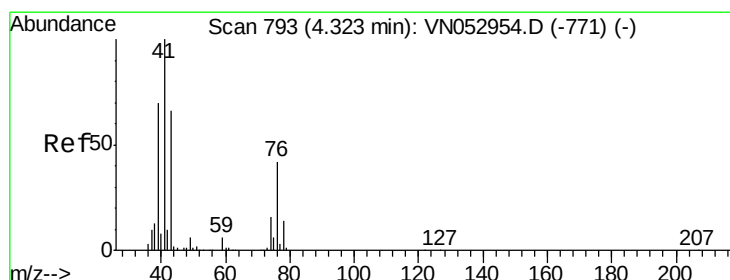
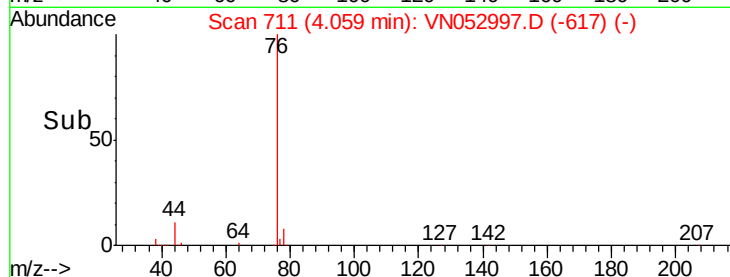
600000

400000

200000

0

Time-->



#18

Methyl Acetate

Concen: 45.629 ug/l

RT: 4.32 min Scan# 792

Delta R.T. -0.00 min

Lab File: VN052997.D

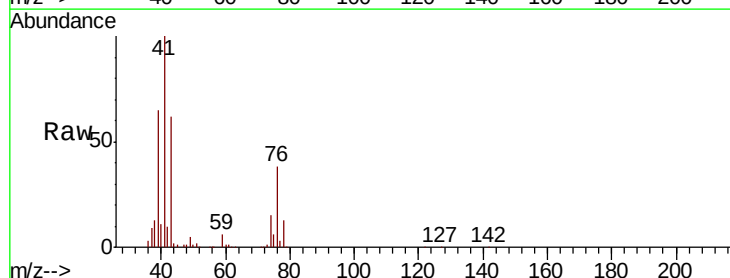
Acq: 19 Dec 2018 8:55

Tgt Ion: 43 Resp: 475654

Ion Ratio Lower Upper

43 100

74 24.8 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 74.00 (73.70 to 74.70): VNO

4.32

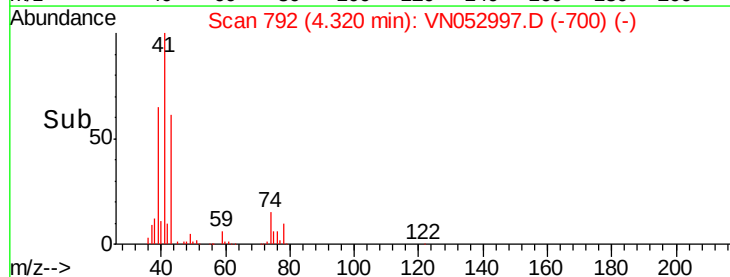
150000

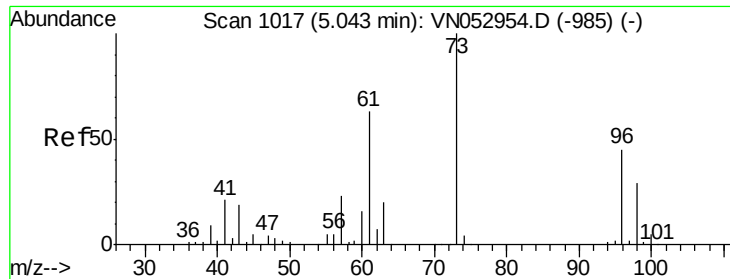
100000

50000

0

Time-->





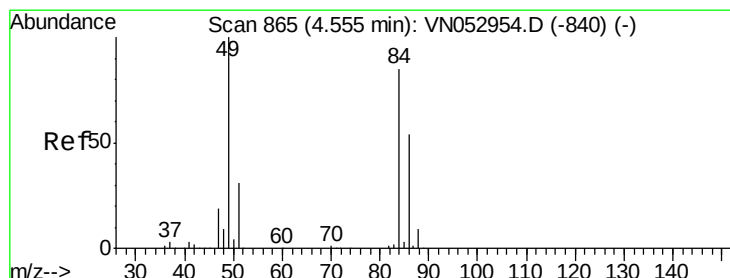
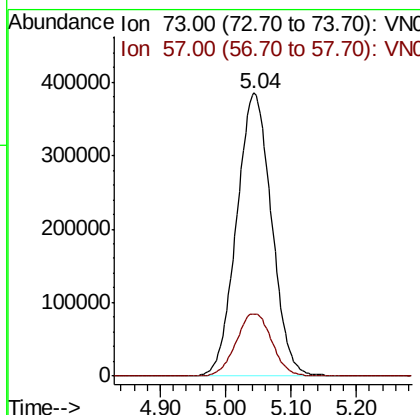
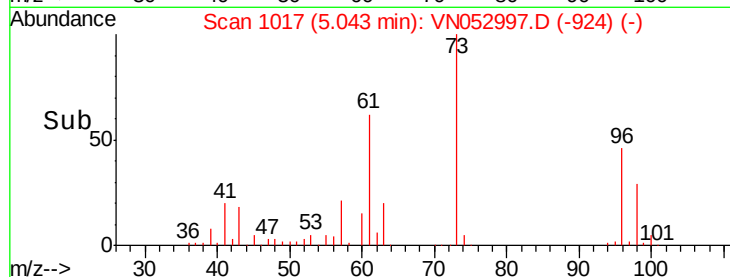
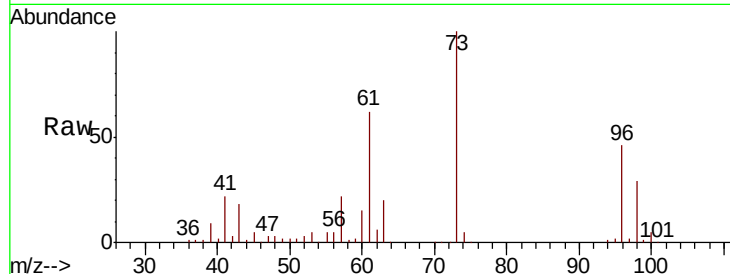
#19
Methyl tert-butyl Ether
Concen: 48.513 ug/l
RT: 5.04 min Scan# 1017
Delta R.T. -0.00 min
Lab File: VN052997.D
Acq: 19 Dec 2018 8:55

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 73 Resp: 1431111
Ion Ratio Lower Upper
73 100
57 21.9 18.4 27.6

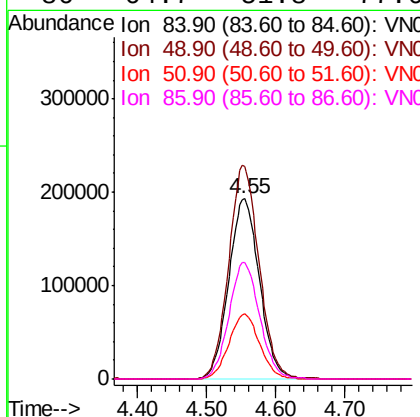
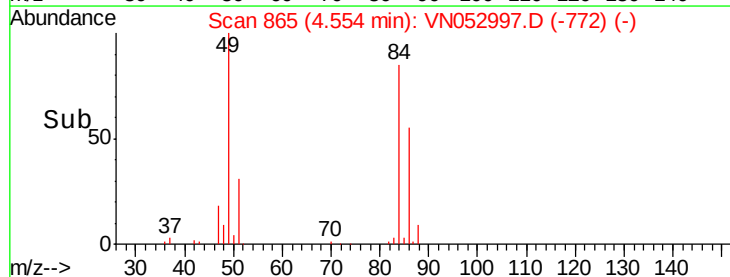
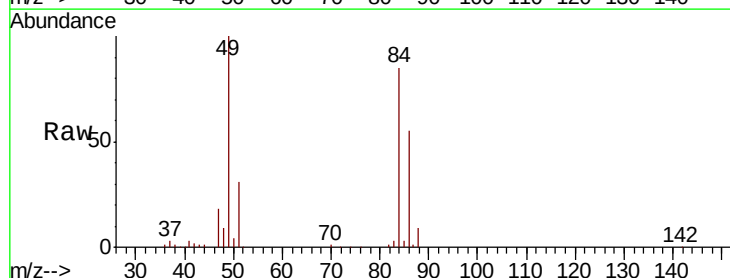
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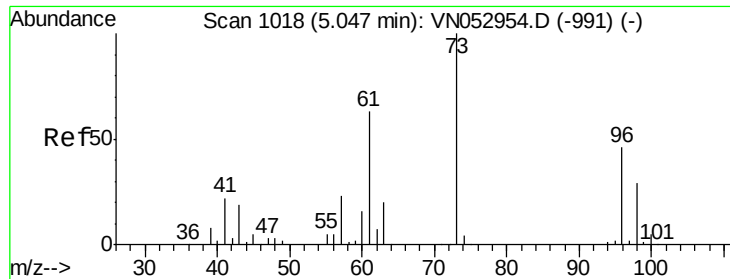
MMDadoda
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#20
Methylene Chloride
Concen: 47.549 ug/l
RT: 4.55 min Scan# 865
Delta R.T. -0.00 min
Lab File: VN052997.D
Acq: 19 Dec 2018 8:55

Tgt Ion: 84 Resp: 596875
Ion Ratio Lower Upper
84 100
49 117.9 96.8 145.2
51 36.3 29.9 44.9
86 64.7 51.8 77.6





#21

trans-1,2-Dichloroethene

Concen: 47.630 ug/l

RT: 5.04 min Scan# 1017

Delta R.T. -0.00 min

Lab File: VN052997.D

Acq: 19 Dec 2018 8:55

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 96 Resp: 564117

Ion Ratio Lower Upper

96 100

61 136.5 110.8 166.2

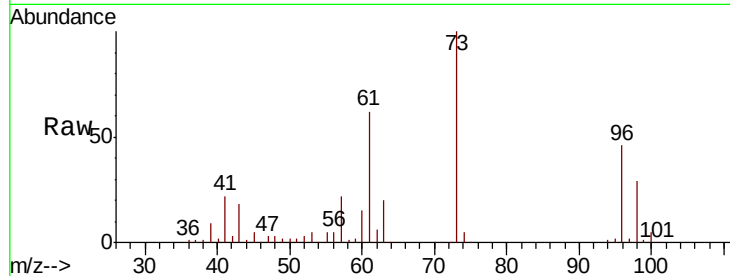
98 63.1 51.4 77.2

Manual Integrations

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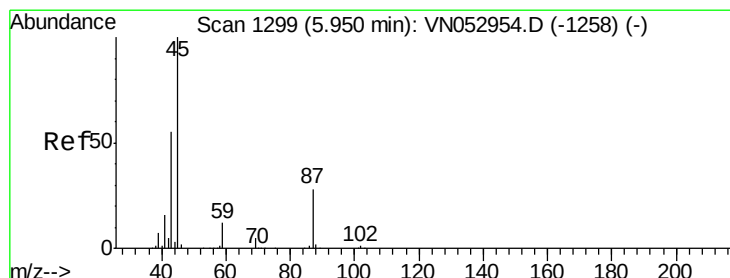
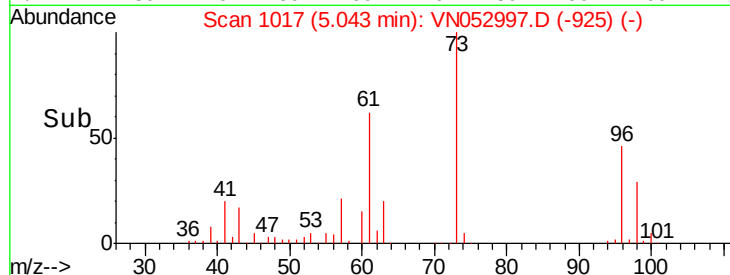
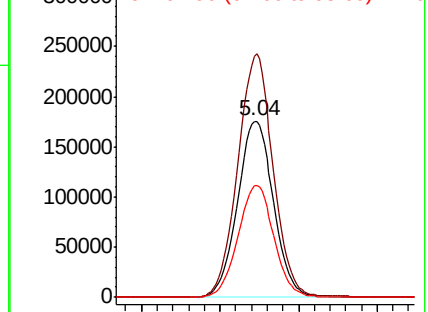


Abundance

Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#22

Diisopropyl ether

Concen: 49.311 ug/l

RT: 5.95 min Scan# 1299

Delta R.T. -0.00 min

Lab File: VN052997.D

Acq: 19 Dec 2018 8:55

Tgt Ion: 45 Resp: 1797242

Ion Ratio Lower Upper

45 100

43 55.4 45.5 68.3

87 28.6 22.0 33.0

59 12.0 9.4 14.0

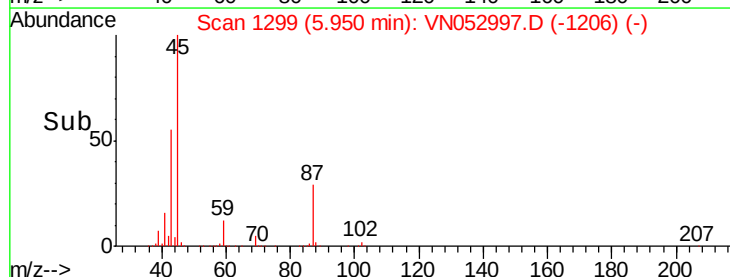
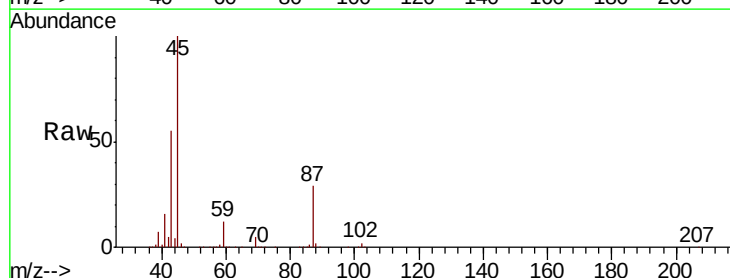
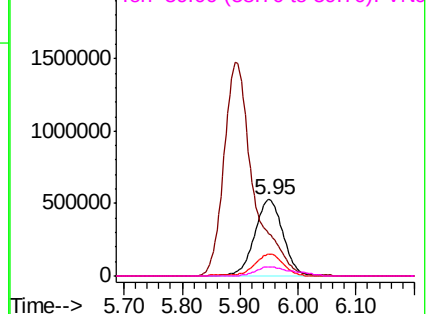
Abundance

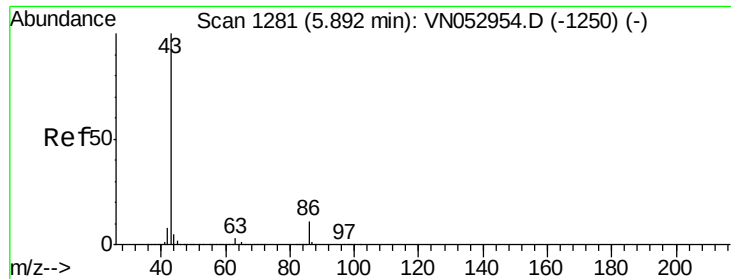
Ion 45.00 (44.70 to 45.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

Ion 59.00 (58.70 to 59.70): VN0





#23

Vinyl Acetate

Concen: 247.822 ug/l

RT: 5.89 min Scan# 1281

Delta R.T. -0.00 min

Lab File: VN052997.D

Acq: 19 Dec 2018 8:55

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 5193849

Ion Ratio Lower Upper

43 100

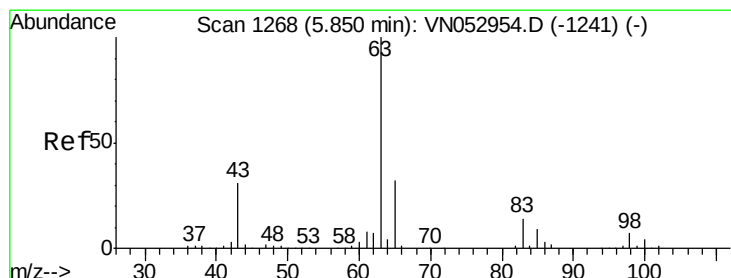
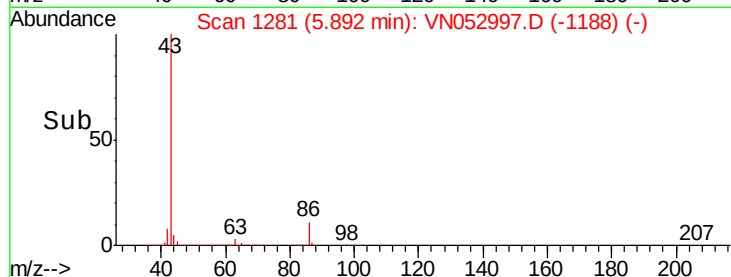
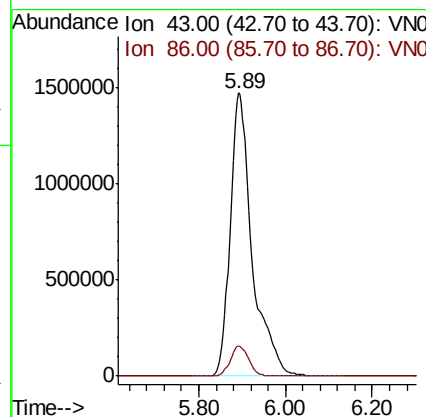
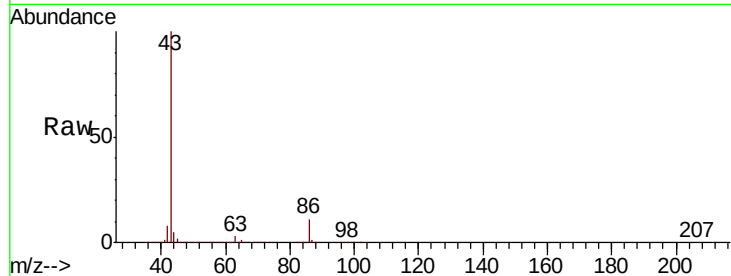
86 10.8 8.1 12.1

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#24

1,1-Dichloroethane

Concen: 47.948 ug/l

RT: 5.85 min Scan# 1268

Delta R.T. -0.00 min

Lab File: VN052997.D

Acq: 19 Dec 2018 8:55

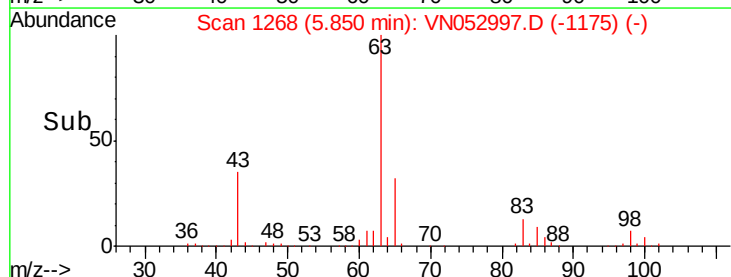
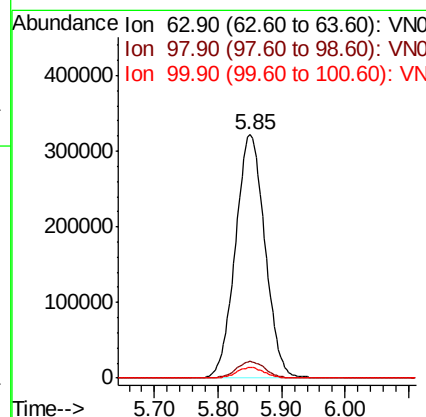
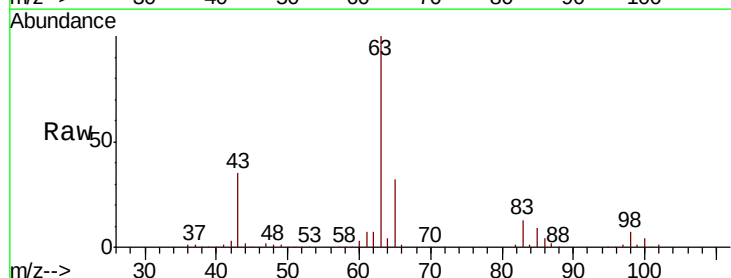
Tgt Ion: 63 Resp: 1038436

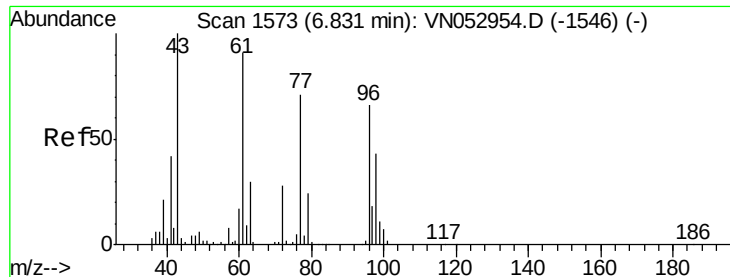
Ion Ratio Lower Upper

63 100

98 6.7 3.1 9.4

100 4.3 2.0 5.8





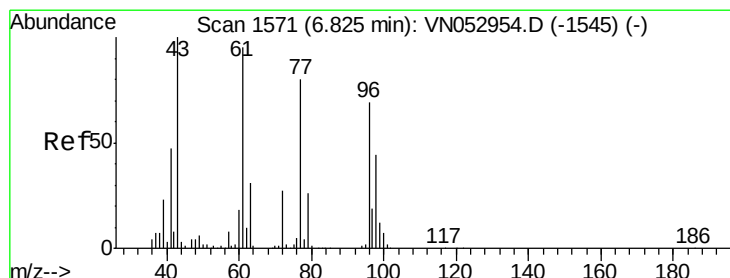
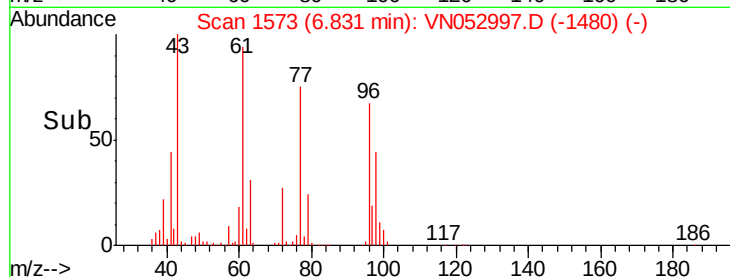
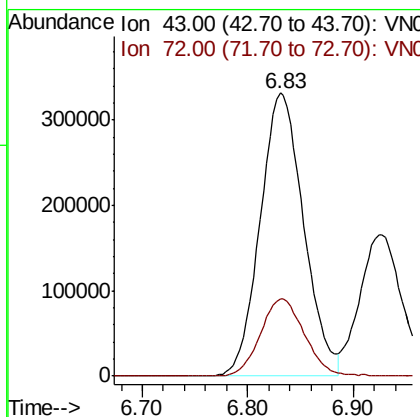
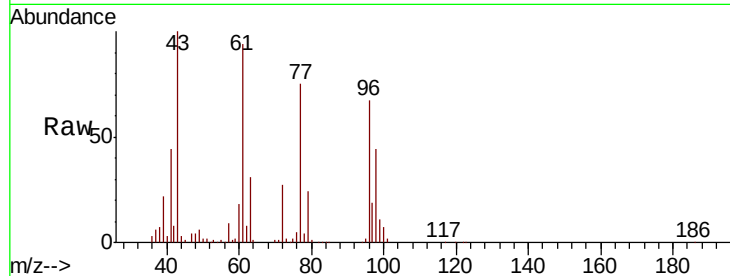
#25
2-Butanone
Concen: 245.737 ug/l
RT: 6.83 min Scan# 1573
Delta R.T. -0.00 min
Lab File: VN052997.D
Acq: 19 Dec 2018 8:55

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 949036
Ion Ratio Lower Upper
43 100
72 27.2 21.0 31.6

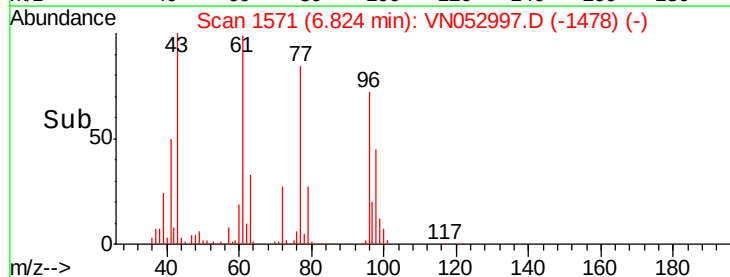
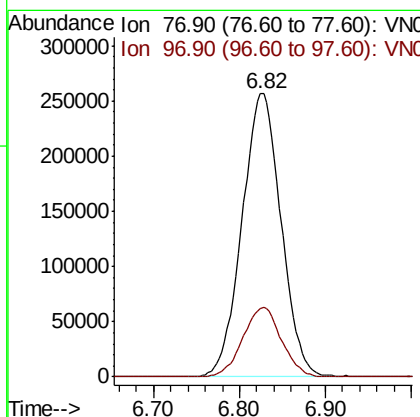
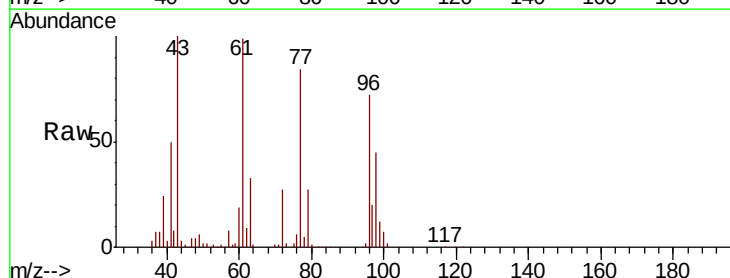
Manual Integrations
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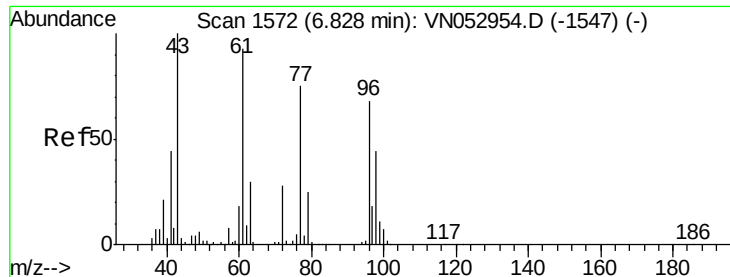
MMDadoda
12/20/2018 9:34:12 AM



#26
2,2-Dichloropropane
Concen: 49.005 ug/l
RT: 6.82 min Scan# 1571
Delta R.T. -0.00 min
Lab File: VN052997.D
Acq: 19 Dec 2018 8:55

Tgt Ion: 77 Resp: 810189
Ion Ratio Lower Upper
77 100
97 24.4 11.9 35.9





#27

cis-1,2-Dichloroethene

Concen: 47.983 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. -0.00 min

Lab File: VN052997.D

Acq: 19 Dec 2018 8:55

Instrument :

MSVOA_N

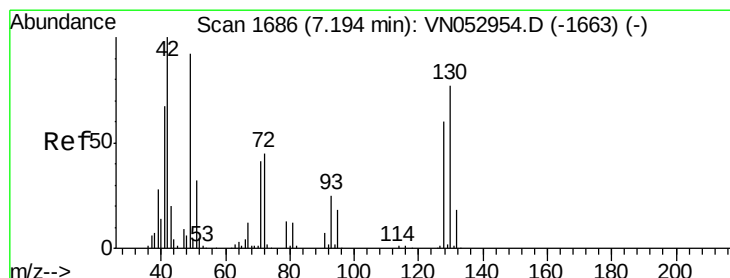
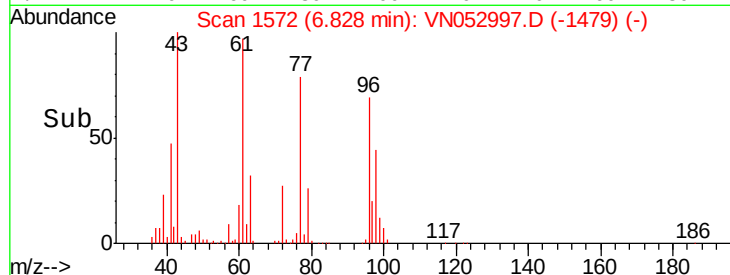
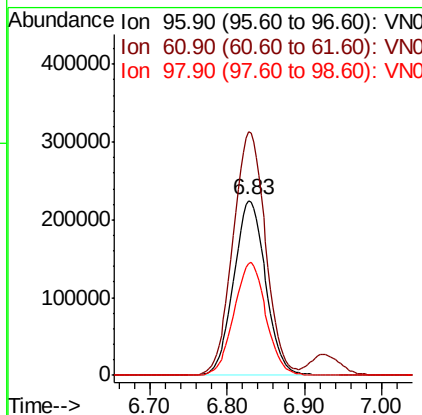
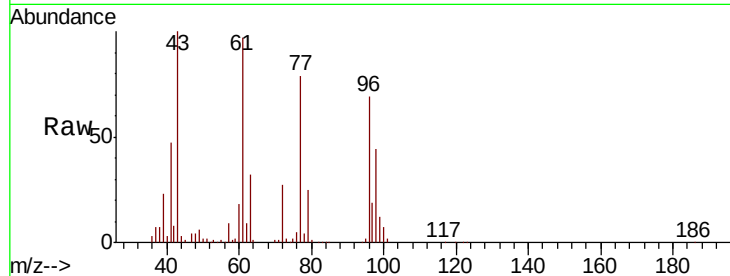
ClientSampleId :

VSTDCCC050

Tot Ion:	96	Resp:	643381
Ion	Ratio	Lower	Upper
96	100		
61	142.3	0.0	284.2
98	64.9	0.0	129.2

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#28

Bromochloromethane

Concen: 49.026 ug/l

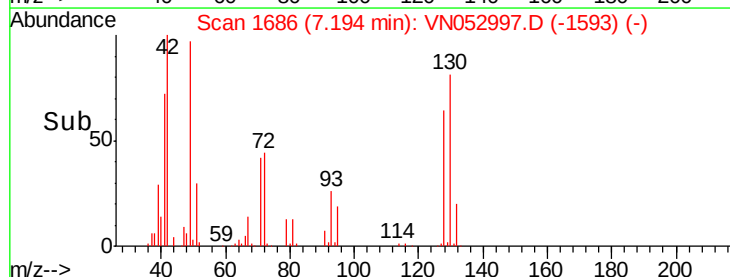
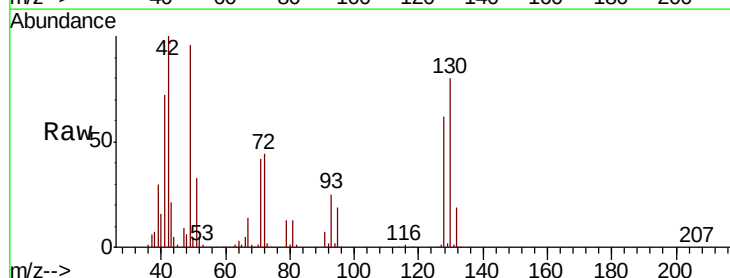
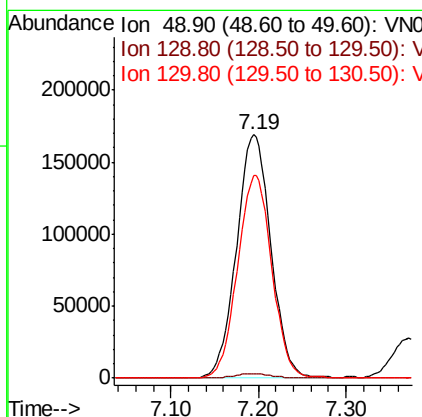
RT: 7.19 min Scan# 1686

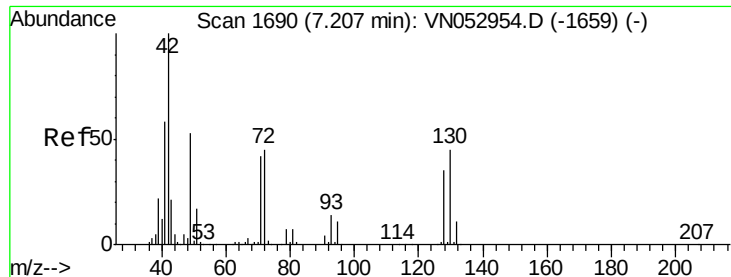
Delta R.T. -0.00 min

Lab File: VN052997.D

Acq: 19 Dec 2018 8:55

Tgt Ion:	49	Resp:	460094
Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	4.0
130	83.2	63.3	94.9





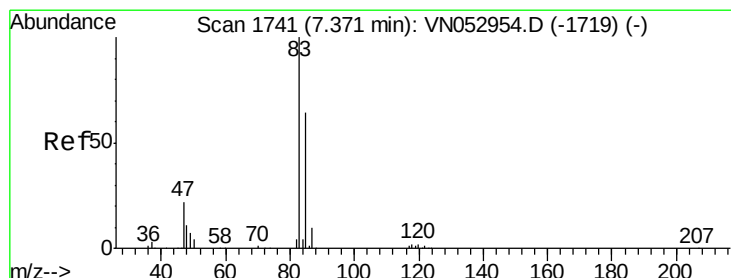
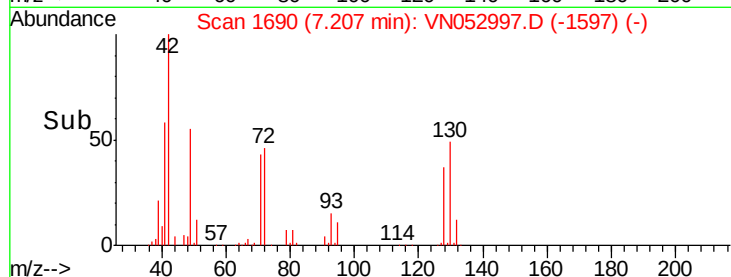
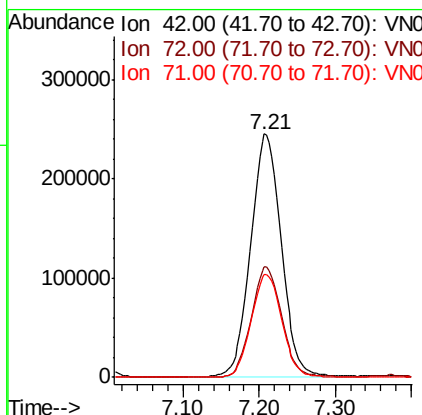
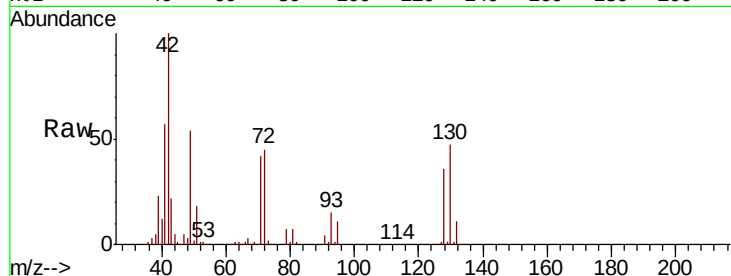
#29
Tetrahydrofuran
Concen: 239.257 ug/l
RT: 7.21 min Scan# 1690
Delta R.T. -0.00 min
Lab File: VN052997.D
Acq: 19 Dec 2018 8:55

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
42	100		
72	44.9	34.7	52.1
71	42.4	32.3	48.5

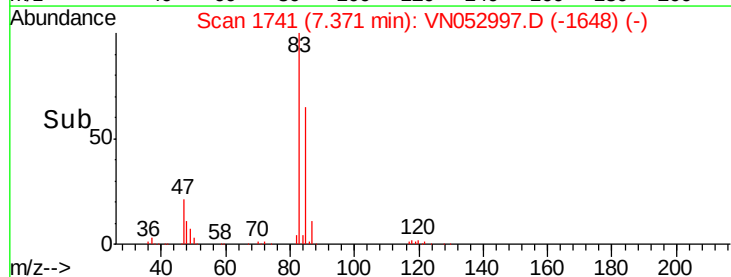
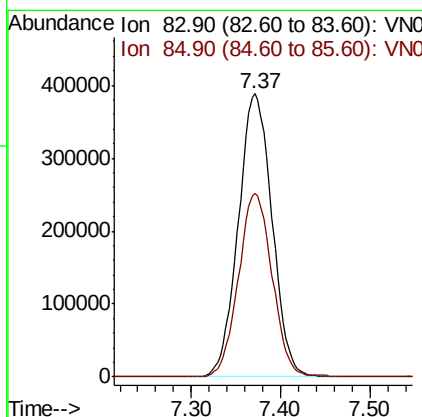
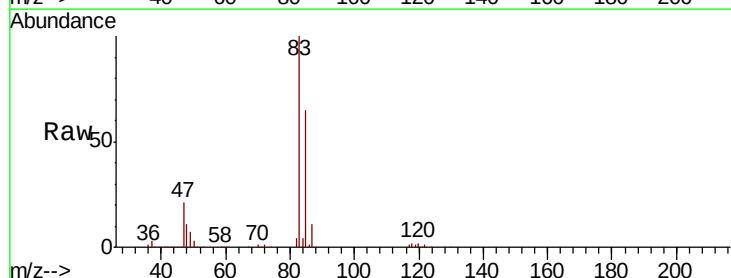
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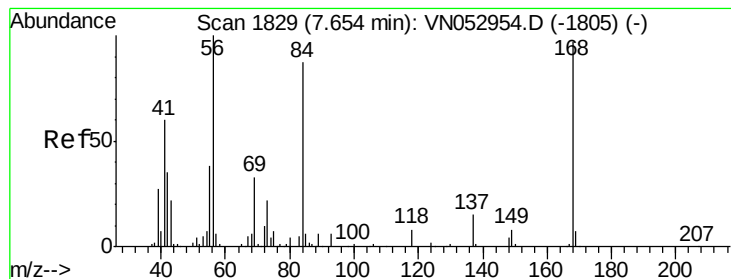
MMDadoda
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#30
Chloroform
Concen: 48.046 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VN052997.D
Acq: 19 Dec 2018 8:55

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.0	52.1	78.1





#31

Cyclohexane

Concen: 49.744 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN052997.D

Acq: 19 Dec 2018 8:55

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 1010520

Ion Ratio Lower Upper

56 100

69 32.8 26.6 39.8

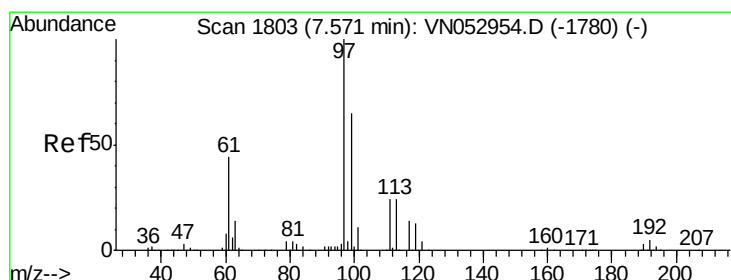
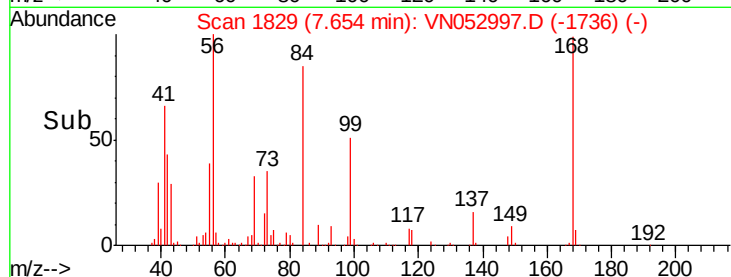
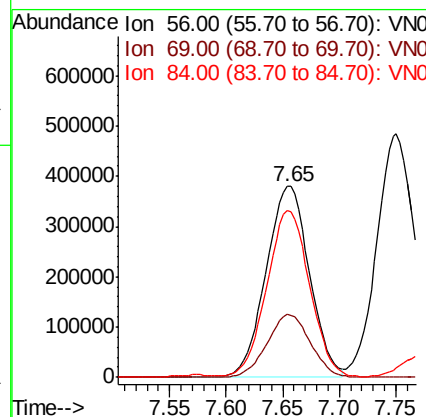
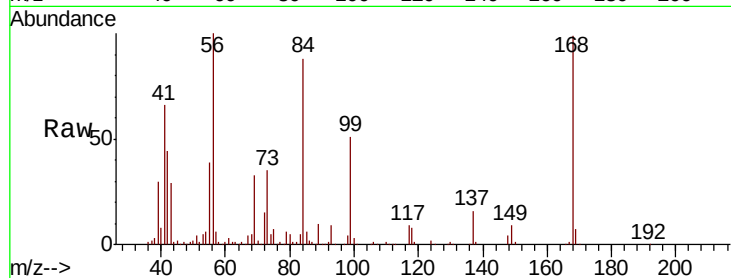
84 86.3 68.4 102.6

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#32

1,1,1-Trichloroethane

Concen: 47.689 ug/l

RT: 7.57 min Scan# 1803

Delta R.T. -0.00 min

Lab File: VN052997.D

Acq: 19 Dec 2018 8:55

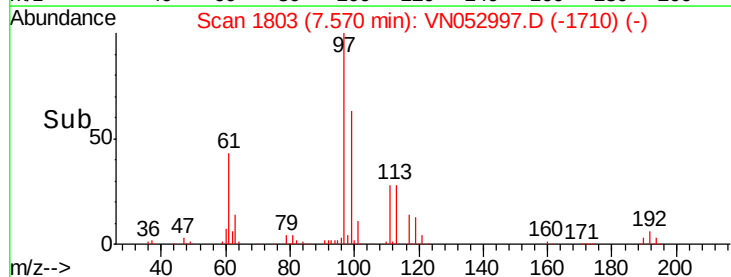
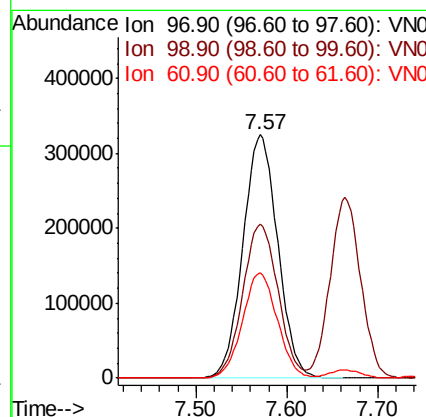
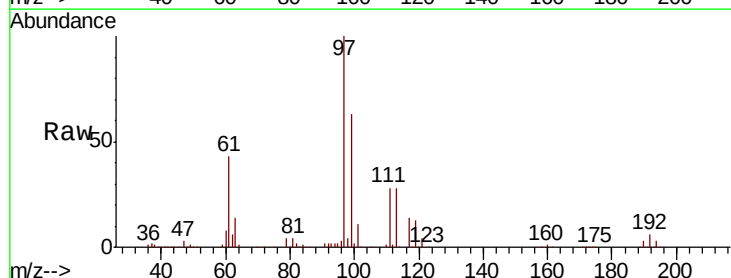
Tgt Ion: 97 Resp: 864305

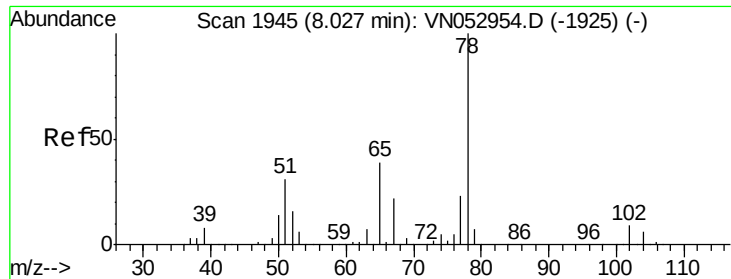
Ion Ratio Lower Upper

97 100

99 64.0 51.1 76.7

61 43.2 35.0 52.6





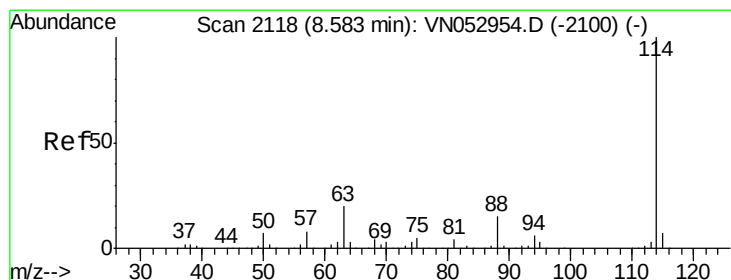
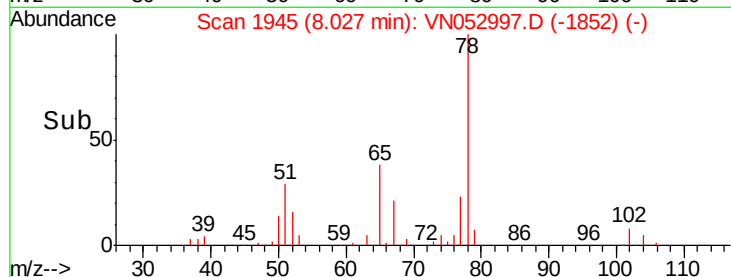
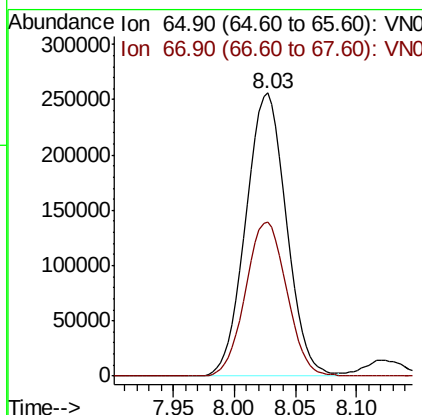
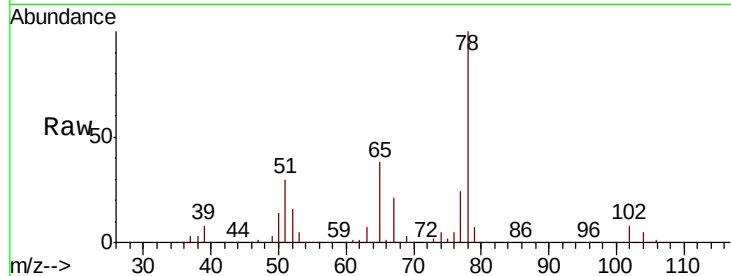
#33
 1,2-Dichloroethane-d4
 Concen: 47.689 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN052997.D
 Acq: 19 Dec 2018 8:55

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
65	100	590402		
67	55.1	0.0	110.4	

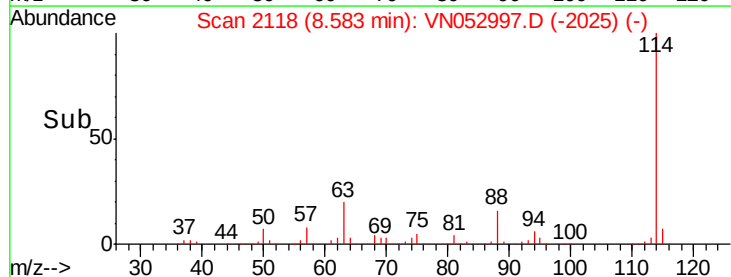
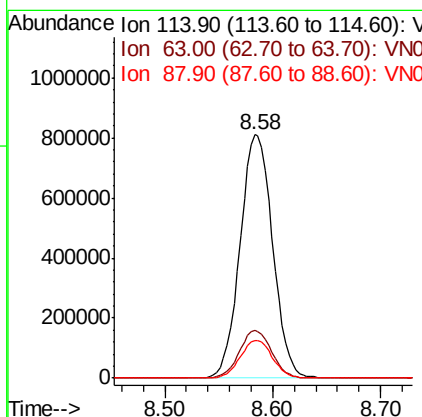
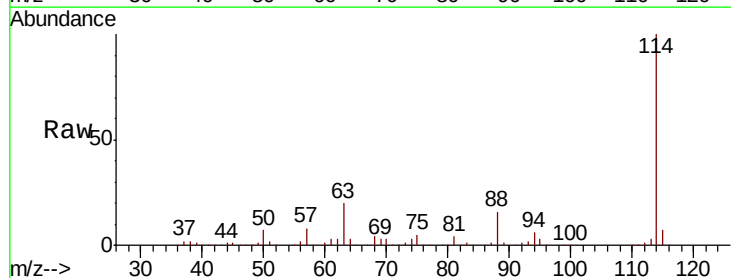
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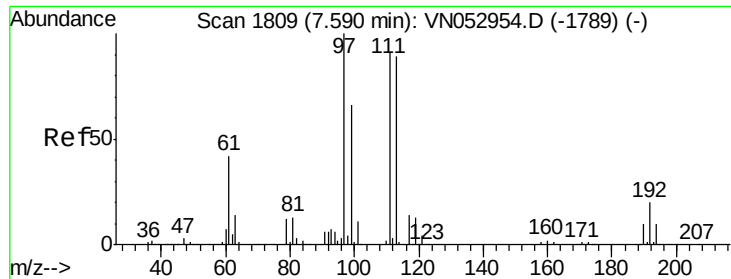
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN052997.D
 Acq: 19 Dec 2018 8:55

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	1702873		
63	19.6	0.0	39.8	
88	15.6	0.0	31.0	





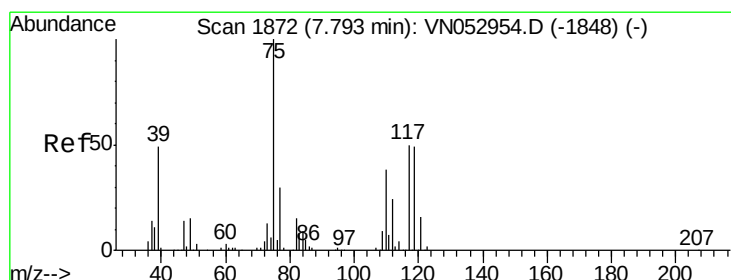
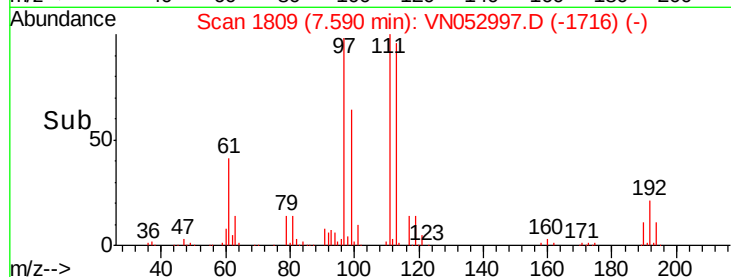
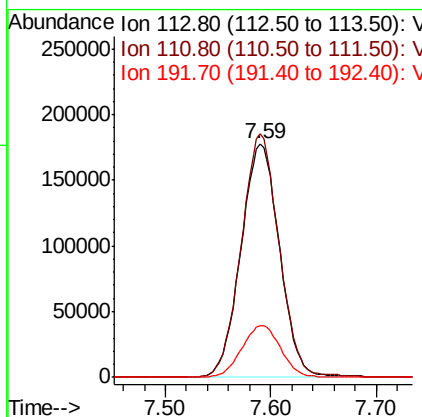
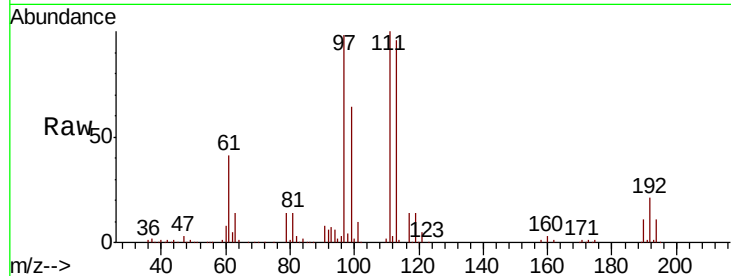
#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 7.59 min Scan# 1809
Delta R.T. -0.00 min
Lab File: VN052997.D
Acq: 19 Dec 2018 8:55

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
113	100	452087		
111	102.0	83.0	124.4	
192	22.4	17.5	26.3	

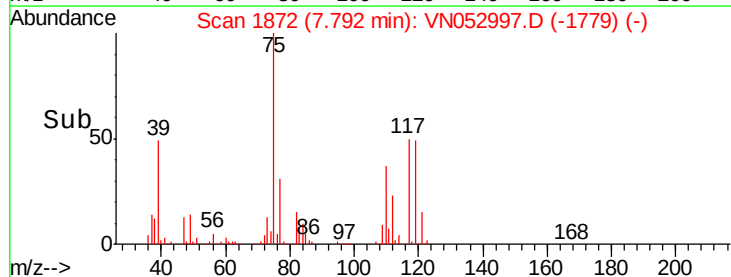
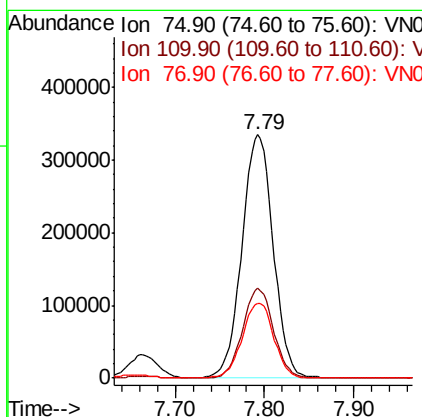
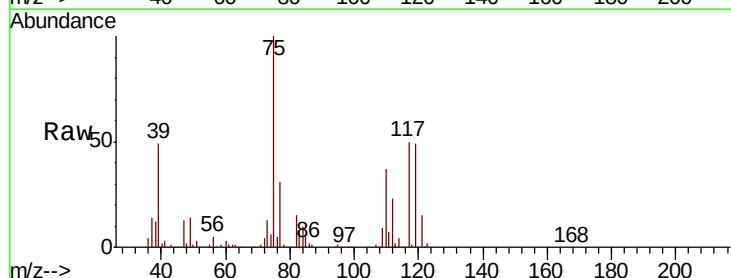
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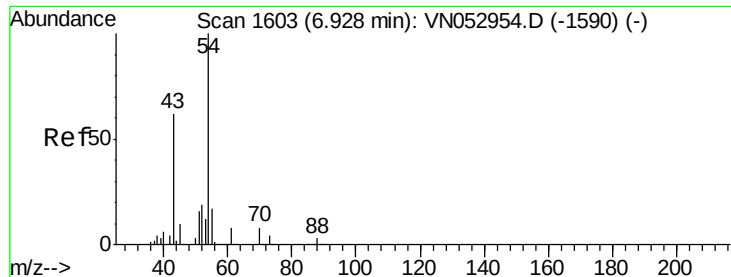
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#36
1,1-Dichloropropene
Concen: 49.848 ug/l
RT: 7.79 min Scan# 1872
Delta R.T. -0.00 min
Lab File: VN052997.D
Acq: 19 Dec 2018 8:55

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	814745		
110	36.6	18.2	54.6	
77	31.2	24.9	37.3	





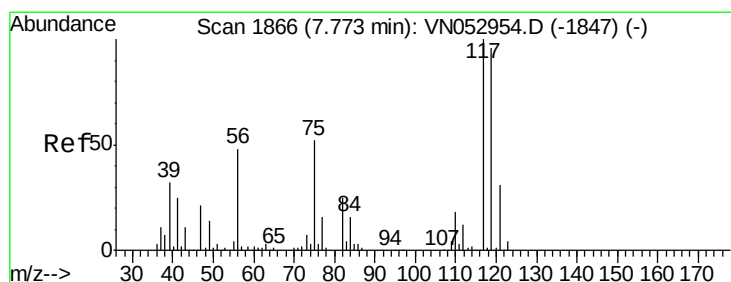
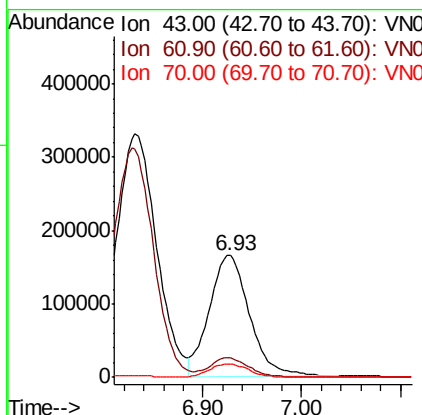
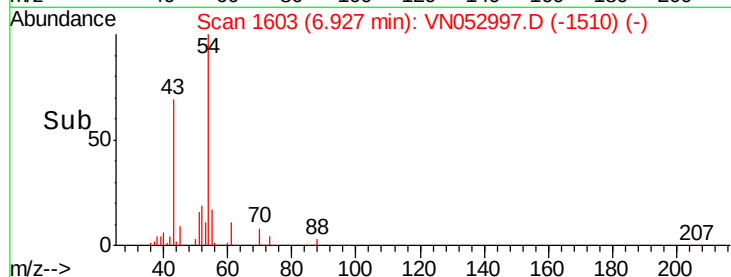
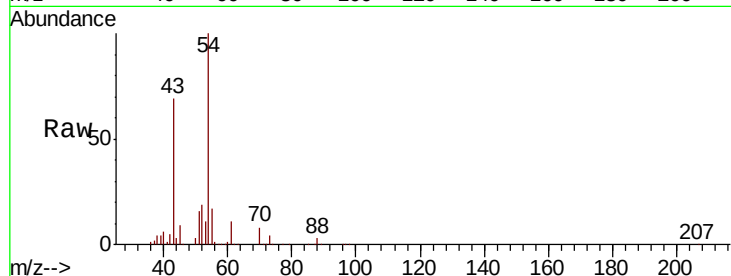
#37
Ethyl Acetate
Concen: 51.505 ug/l
RT: 6.93 min Scan# 1603
Delta R.T. -0.00 min
Lab File: VN052997.D
Acq: 19 Dec 2018 8:55

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	15.3	11.8	17.6
70	11.0	8.4	12.6

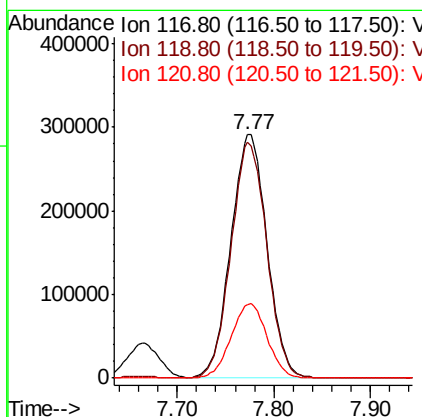
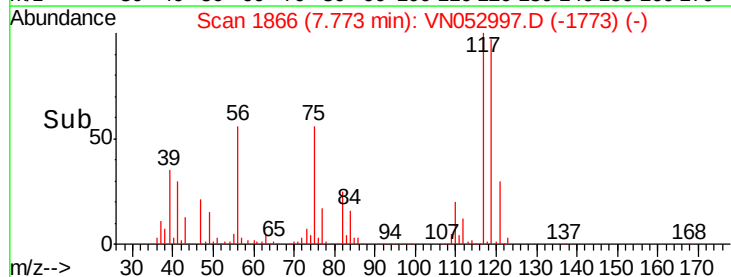
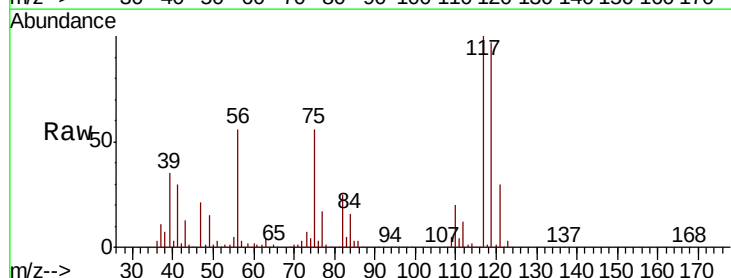
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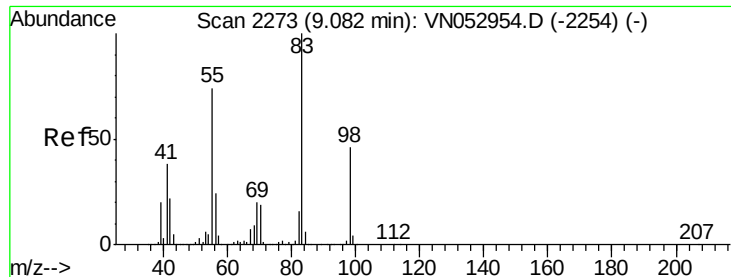
MMDadoda
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#38
Carbon Tetrachloride
Concen: 50.152 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. -0.00 min
Lab File: VN052997.D
Acq: 19 Dec 2018 8:55

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.9	77.1	115.7
121	30.4	24.9	37.3





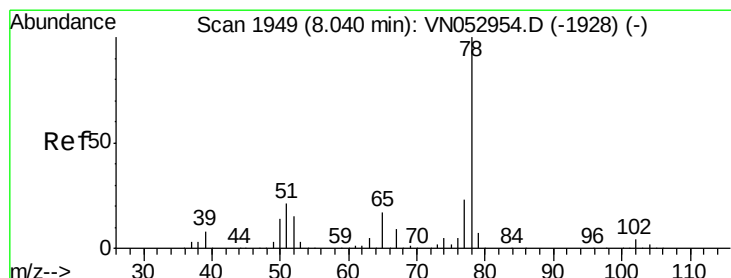
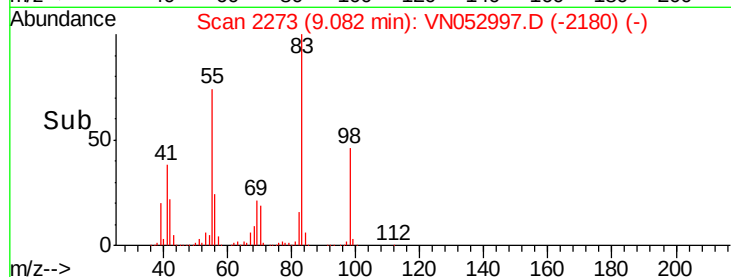
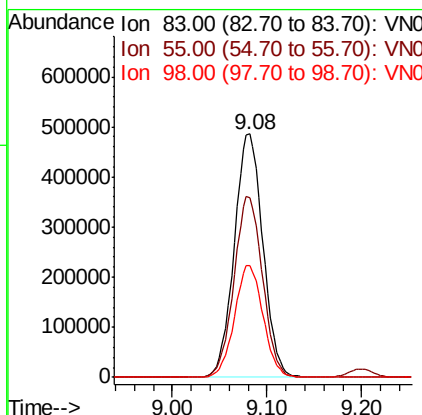
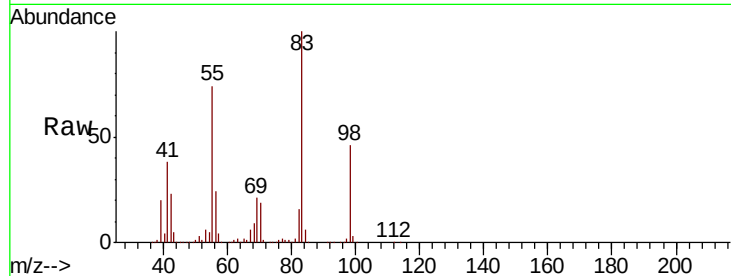
#39
Methylvlcyclohexane
Concen: 51.478 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. -0.00 min
Lab File: VN052997.D
Acq: 19 Dec 2018 8:55

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 83 Resp: 1022125
Ion Ratio Lower Upper
83 100
55 73.7 61.3 91.9
98 45.7 37.0 55.4

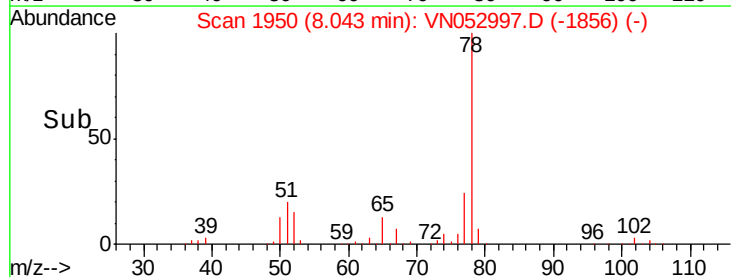
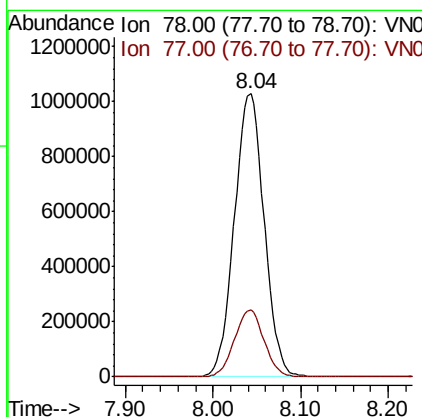
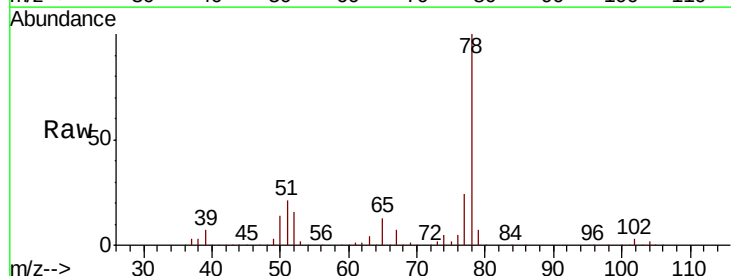
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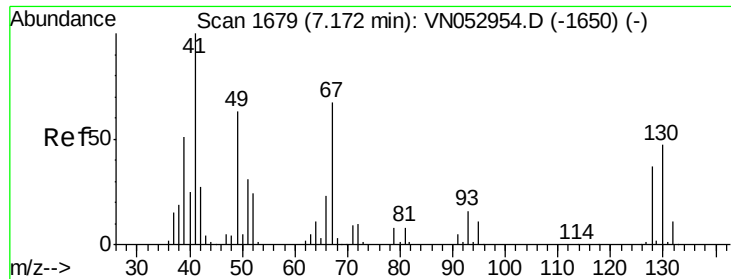
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#40
Benzene
Concen: 50.114 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN052997.D
Acq: 19 Dec 2018 8:55

Tgt Ion: 78 Resp: 2436387
Ion Ratio Lower Upper
78 100
77 23.7 18.5 27.7





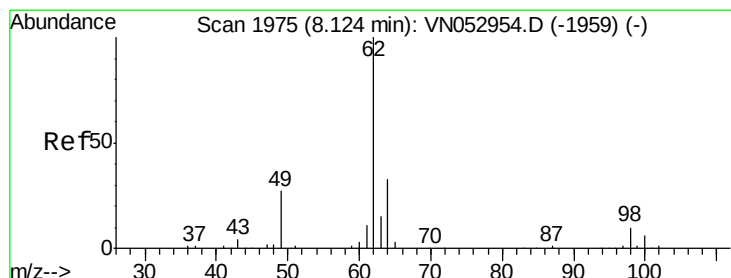
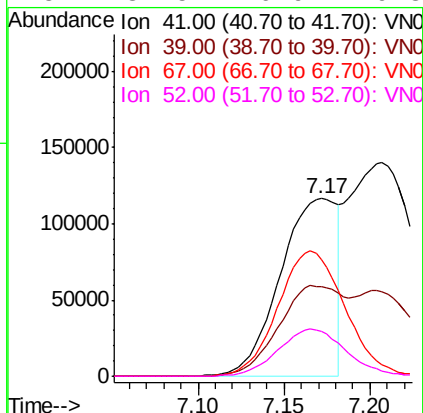
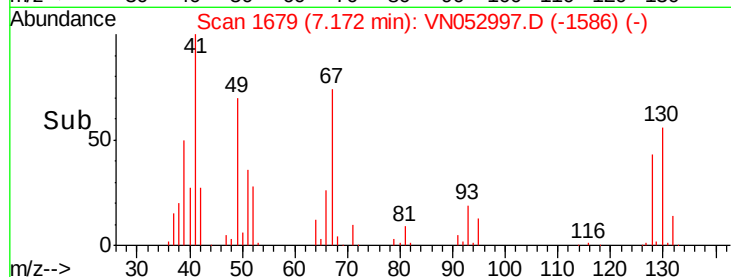
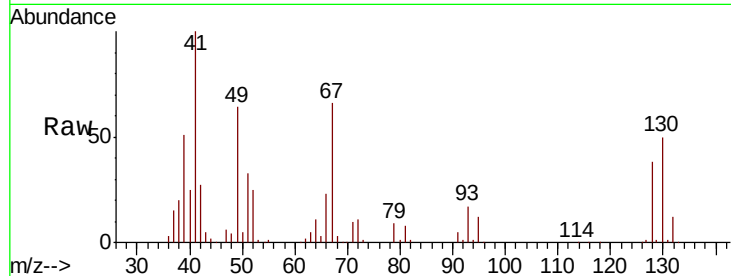
#41
Methacrylonitrile
Concen: 50.654 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. -0.00 min
Lab File: VN052997.D
Acq: 19 Dec 2018 8:55

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	58.8	48.0	72.0	
67	83.9	70.3	105.5	
52	31.5	26.9	40.3	

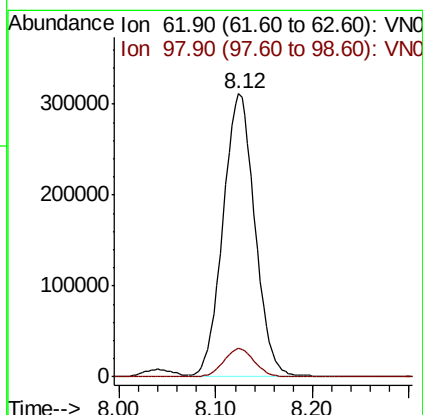
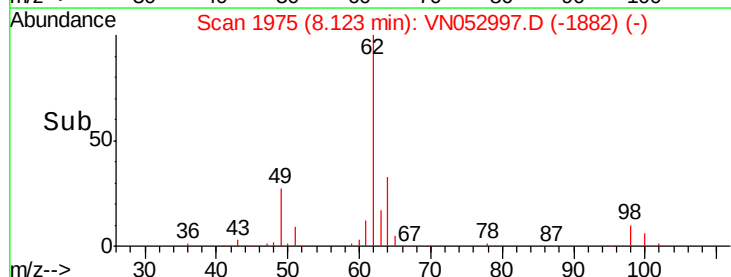
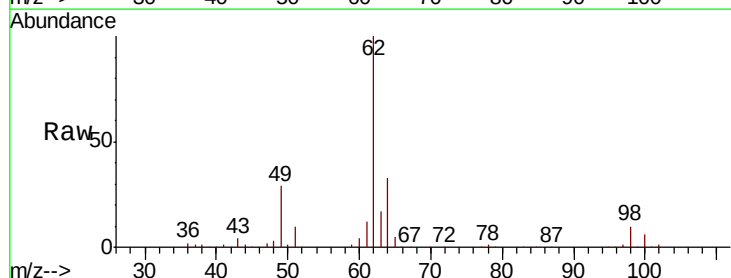
Manual Integrations
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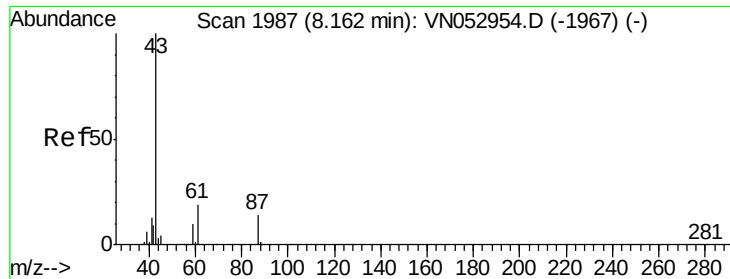
MMDadoda
12/20/2018 9:34:12 AM



#42
1,2-Dichloroethane
Concen: 49.470 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. -0.00 min
Lab File: VN052997.D
Acq: 19 Dec 2018 8:55

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	9.8	0.0	19.0	





#43

Isopropyl Acetate

Concen: 50.063 ug/l

RT: 8.16 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN052997.D

Acq: 19 Dec 2018 8:55

Instrument :

MSVOA_N

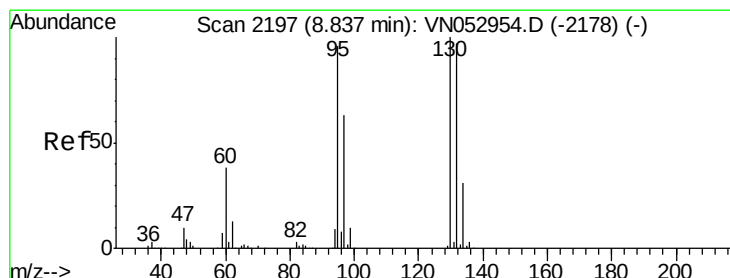
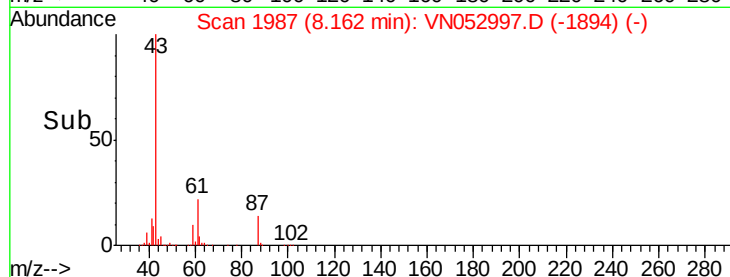
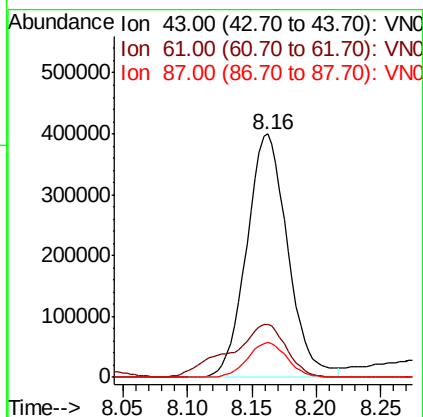
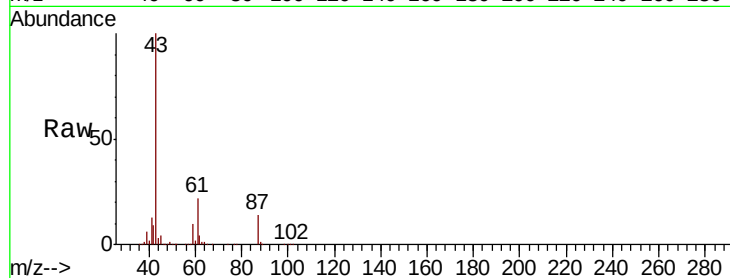
ClientSampleId :

VSTDCCC050

Tot Ion:	43	Resp:	883959
Ion	Ratio	Lower	Upper
43	100		
61	29.5	22.9	34.3
87	14.0	10.6	15.8

Manual Integrations
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MMDadoda
12/20/2018 9:34:12 AM



#44

Trichloroethene

Concen: 49.596 ug/l

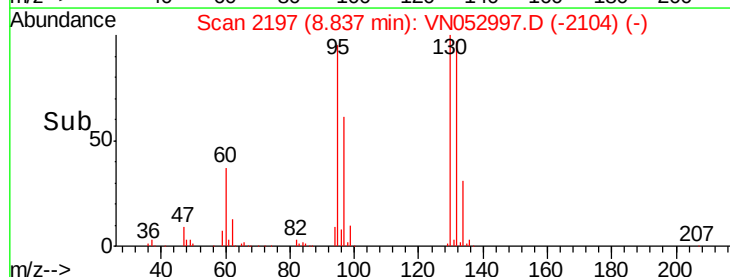
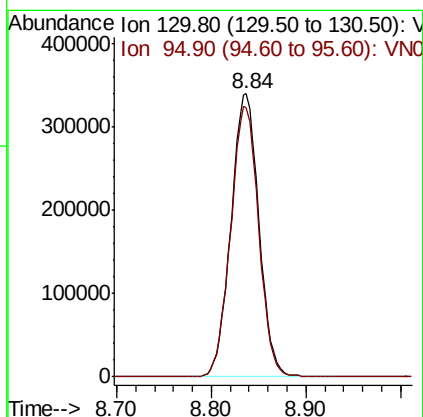
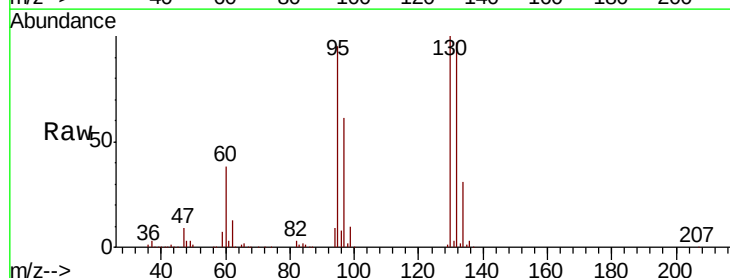
RT: 8.84 min Scan# 2197

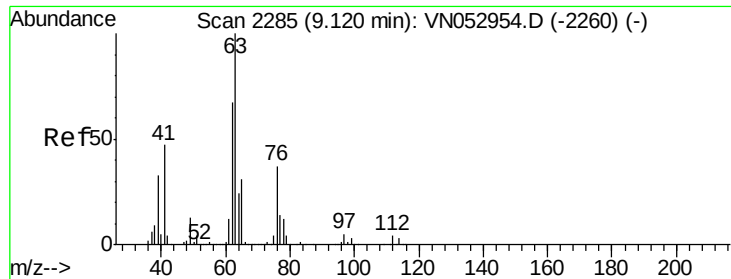
Delta R.T. -0.00 min

Lab File: VN052997.D

Acq: 19 Dec 2018 8:55

Tgt Ion:	130	Resp:	697407
Ion	Ratio	Lower	Upper
130	100		
95	95.1	0.0	197.8





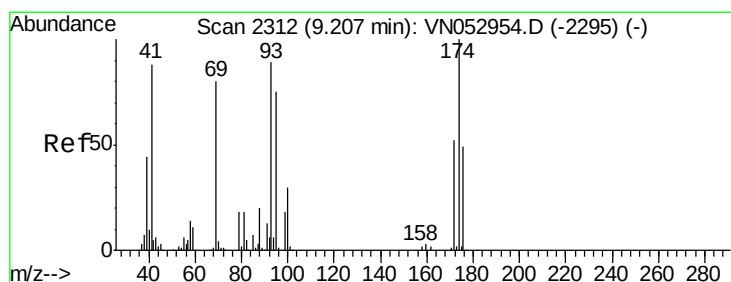
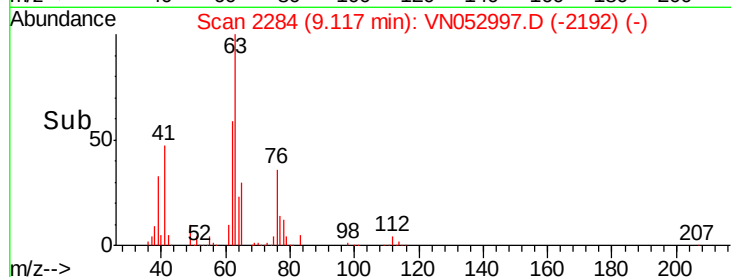
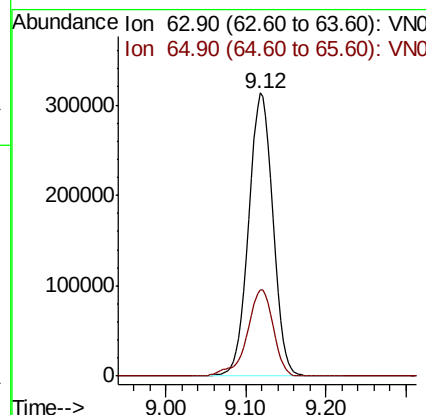
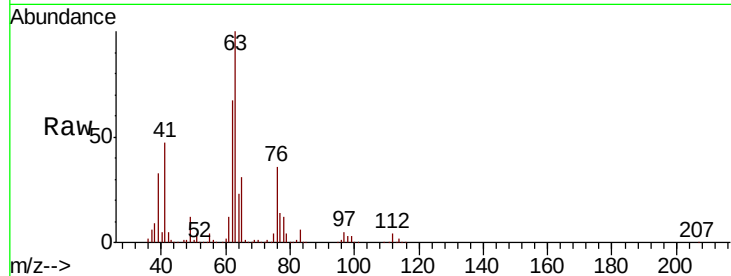
#45
 1,2-Dichloropropane
 Concen: 50.511 ug/l
 RT: 9.12 min Scan# 2284
 Delta R.T. -0.00 min
 Lab File: VN052997.D
 Acq: 19 Dec 2018 8:55

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
63	100	639631		
65	30.7		24.6	37.0

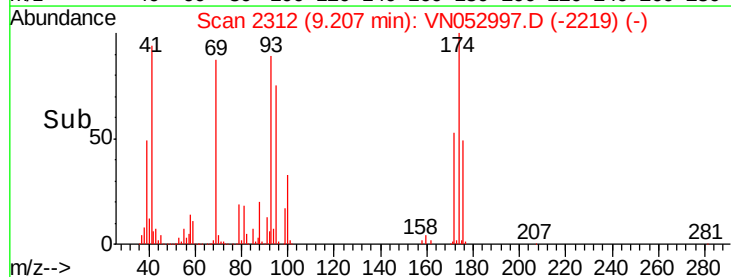
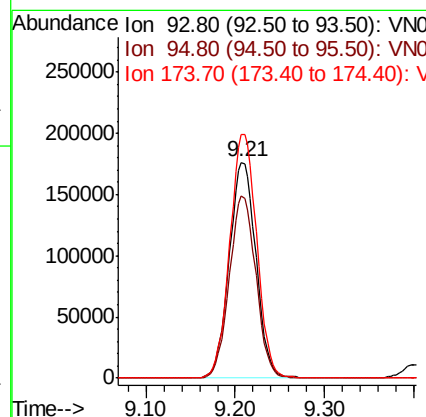
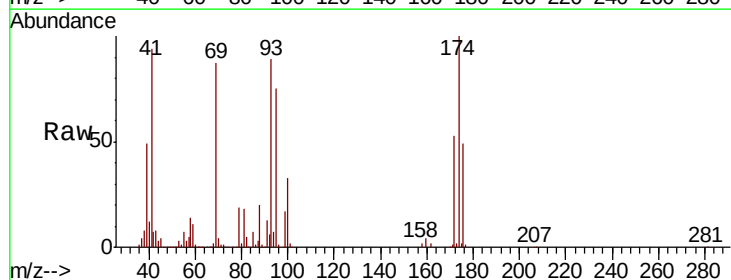
Manual Integrations
 APPROVED

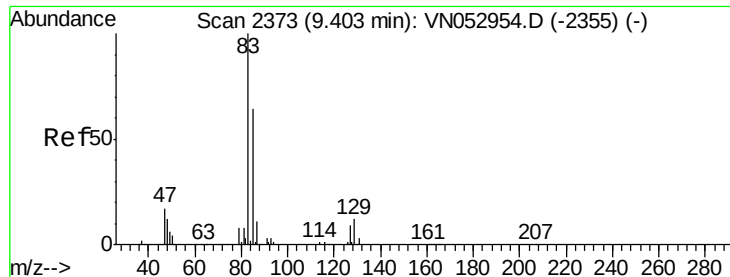
MMDadoda
 12/20/2018 9:34:12 AM



#46
 Dibromomethane
 Concen: 49.667 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. -0.00 min
 Lab File: VN052997.D
 Acq: 19 Dec 2018 8:55

Tgt Ion	Ratio	Resp	Lower	Upper
93	100	366387		
95	83.9		67.8	101.6
174	113.6		89.0	133.4





#47

Bromodichloromethane

Concen: 49.783 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. -0.00 min

Lab File: VN052997.D

Acq: 19 Dec 2018 8:55

Instrument :

MSVOA_N

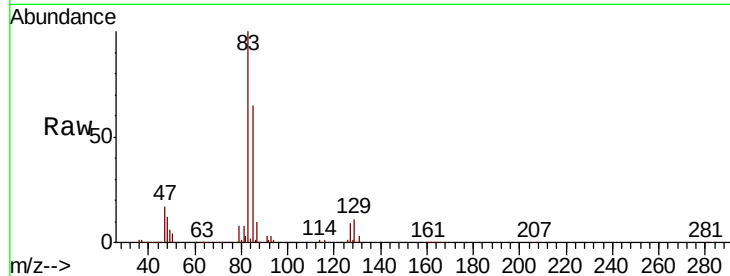
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	780647
Ion Ratio	Lower	Upper	
83	100		
85	64.9	51.6	77.4
127	9.0	7.1	10.7

Manual Integrations
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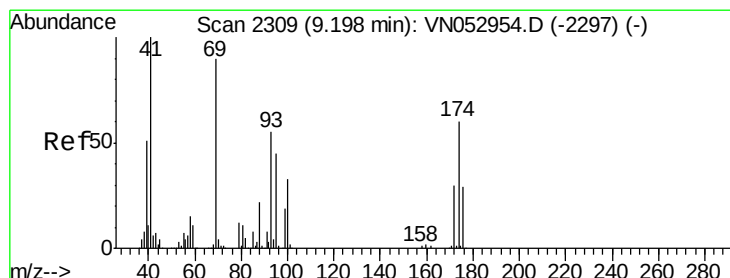
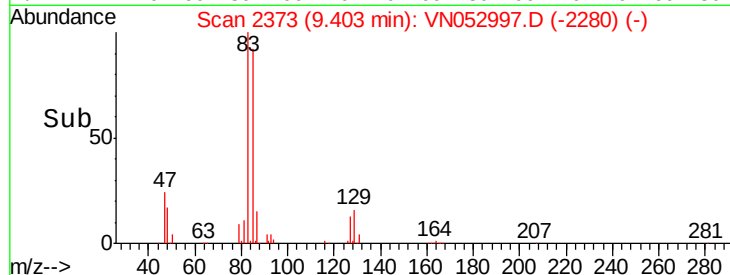
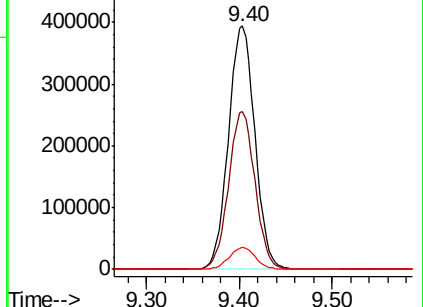
MMDadoda
12/20/2018 9:34:12 AM



Abundance Ion 82.90 (82.60 to 83.60): VN052997.D (-2280) (-)

Ion 84.90 (84.60 to 85.60): VN052997.D (-2280) (-)

Ion 126.80 (126.50 to 127.50): VN052997.D (-2280) (-)



#48

Methyl methacrylate

Concen: 50.486 ug/l

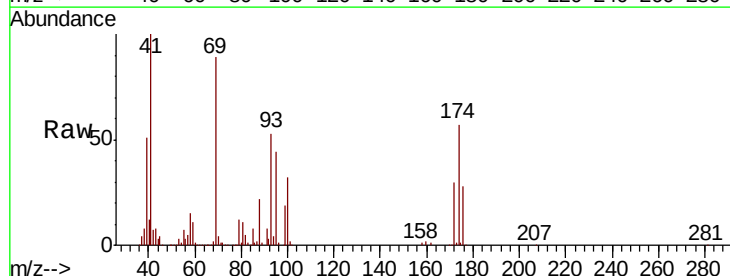
RT: 9.20 min Scan# 2309

Delta R.T. -0.00 min

Lab File: VN052997.D

Acq: 19 Dec 2018 8:55

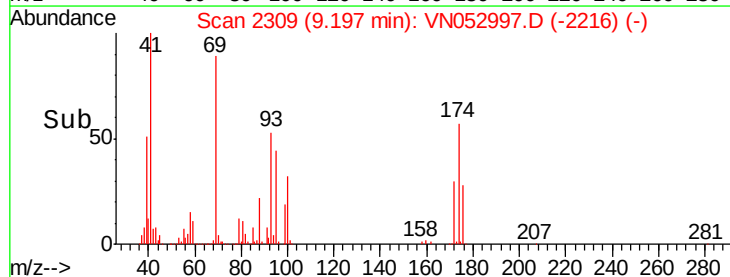
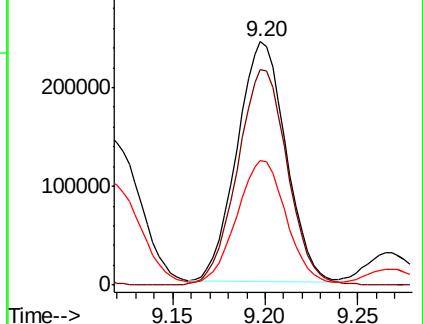
Tgt Ion:	41	Resp:	447006
Ion Ratio	Lower	Upper	
41	100		
69	91.8	72.2	108.2
39	52.9	41.9	62.9

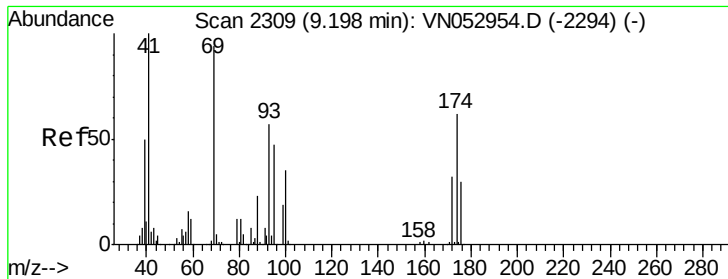


Abundance Ion 41.00 (40.70 to 41.70): VN052997.D (-2216) (-)

Ion 69.00 (68.70 to 69.70): VN052997.D (-2216) (-)

Ion 39.00 (38.70 to 39.70): VN052997.D (-2216) (-)





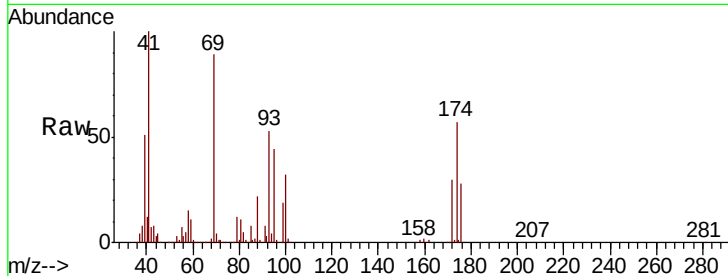
#49
1,4-Dioxane
Concen: 962.200 ug/l
RT: 9.20 min Scan# 2309
Delta R.T. -0.00 min
Lab File: VN052997.D
Acq: 19 Dec 2018 8:55

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
88	100		
43	33.3	26.6	40.0
58	69.4	58.4	87.6

Manual Integrations
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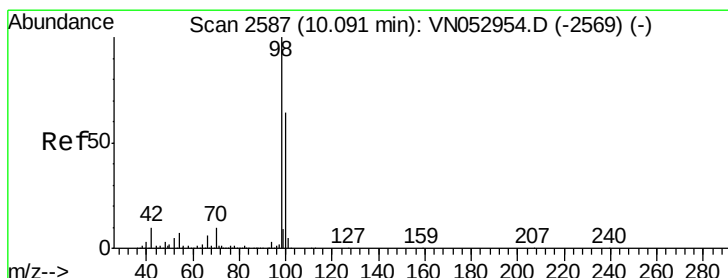
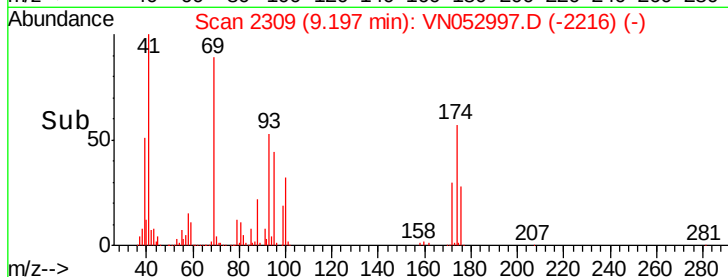
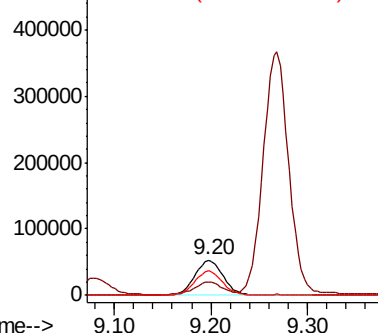


Abundance

Ion 88.00 (87.70 to 88.70): VN0

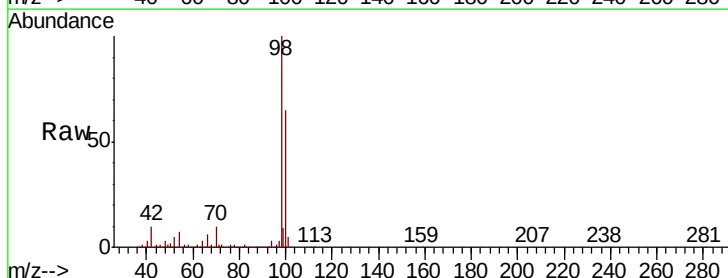
Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50
Toluene-d8
Concen: 962.200 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN052997.D
Acq: 19 Dec 2018 8:55

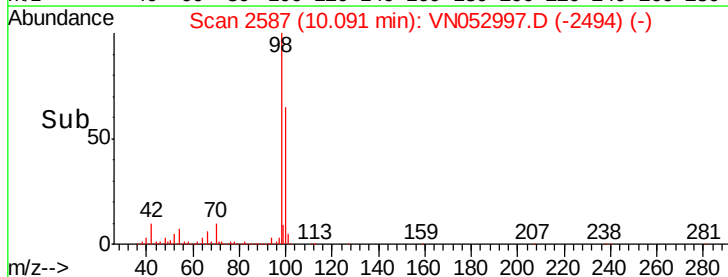
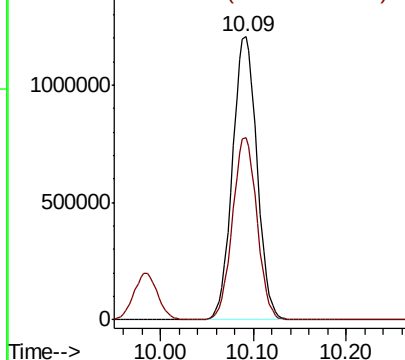
Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.3	51.6	77.4

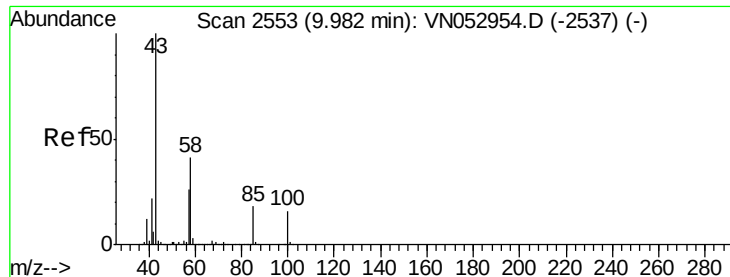


Abundance

Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 257.696 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN052997.D

Acq: 19 Dec 2018 8:55

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 2277063

Ion Ratio Lower Upper

43 100

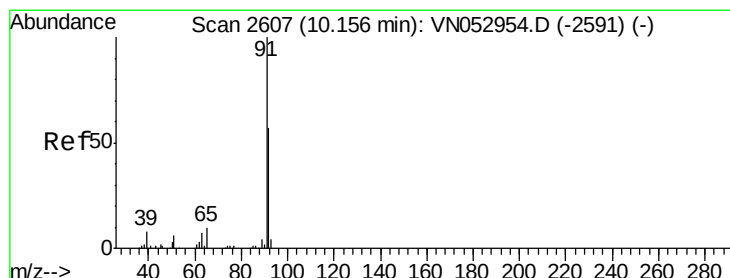
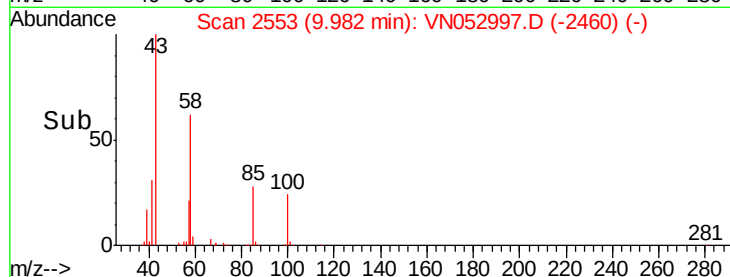
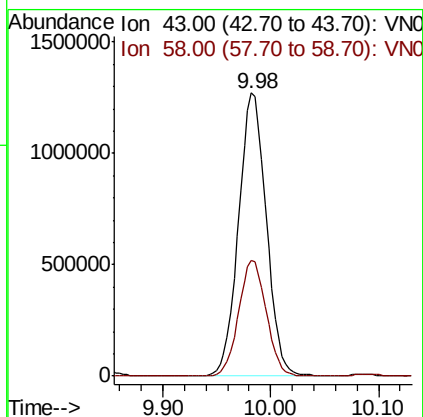
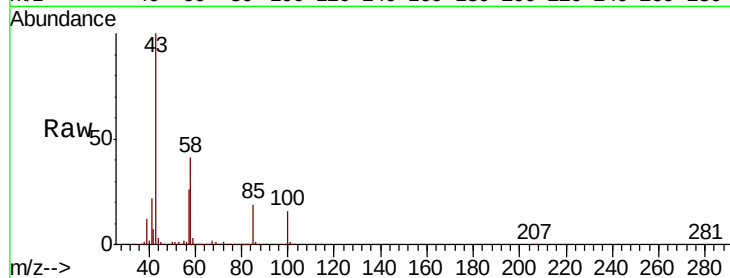
58 41.0 32.2 48.4

Manual Integrations

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#52

Toluene

Concen: 50.976 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN052997.D

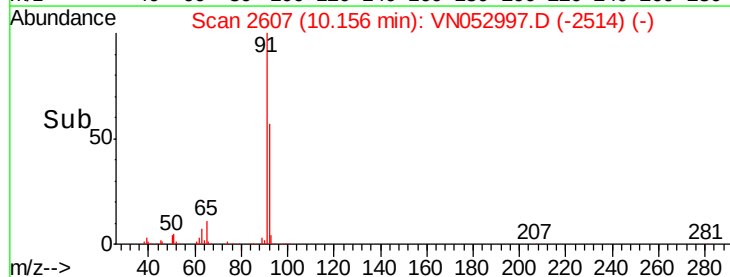
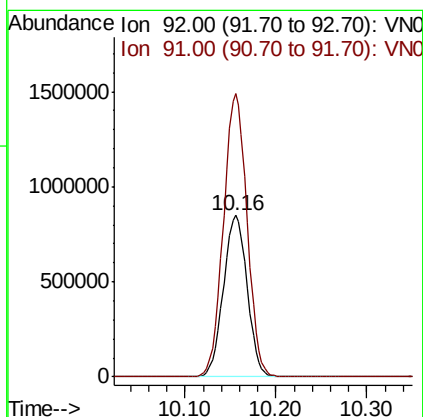
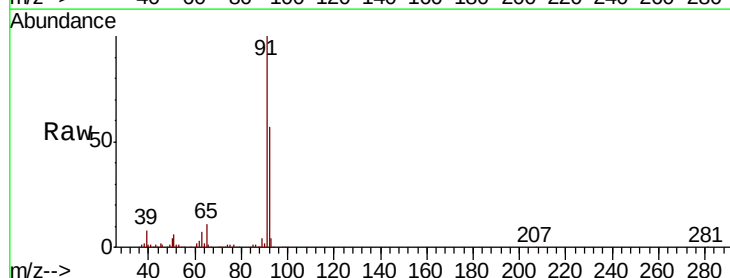
Acq: 19 Dec 2018 8:55

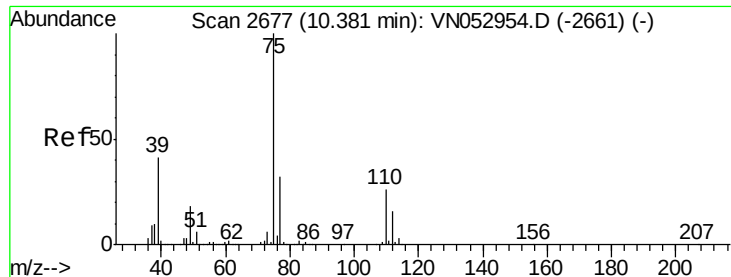
Tgt Ion: 92 Resp: 1536127

Ion Ratio Lower Upper

92 100

91 174.4 139.8 209.6





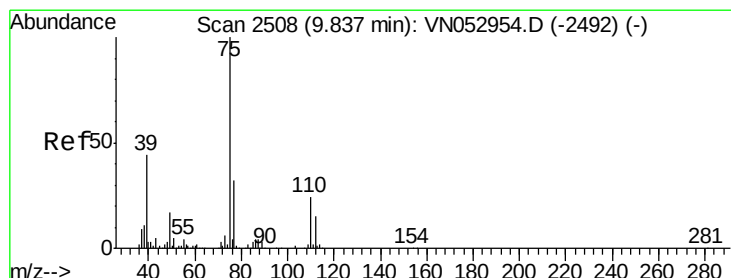
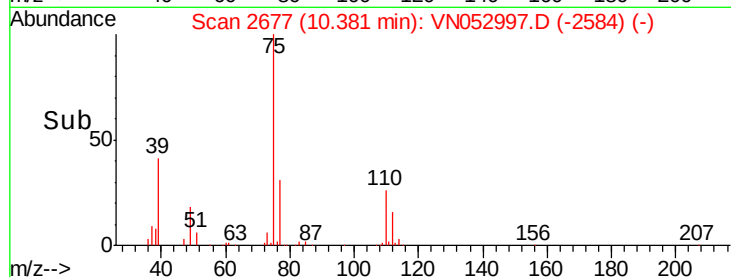
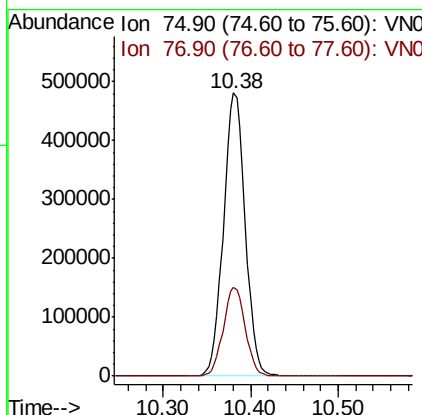
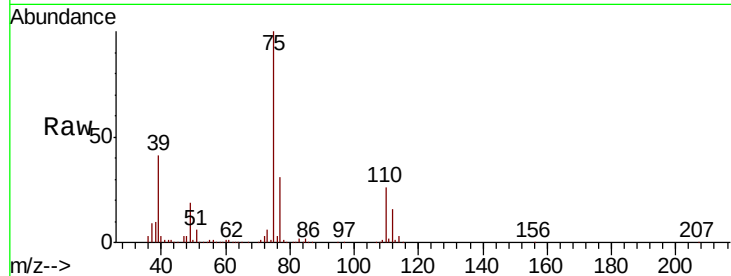
#53
t-1,3-Dichloropropene
Concen: 50.355 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. -0.00 min
Lab File: VN052997.D
Acq: 19 Dec 2018 8:55

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.6	38.4

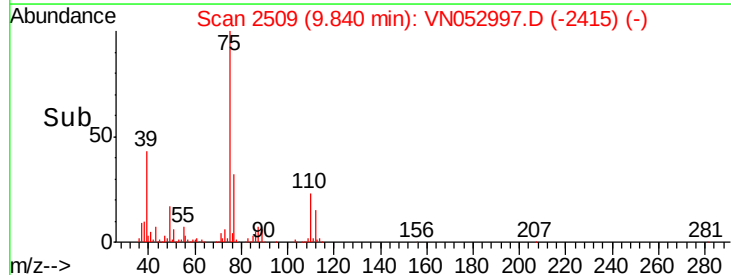
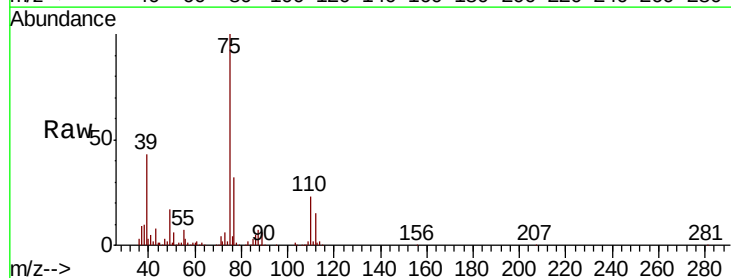
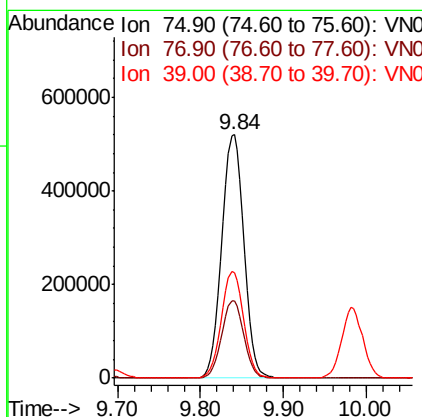
Manual Integrations
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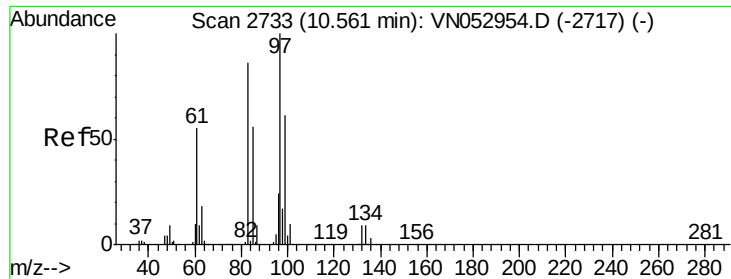
MMDadoda
12/20/2018 9:34:12 AM



#54
cis-1,3-Dichloropropene
Concen: 50.907 ug/l
RT: 9.84 min Scan# 2509
Delta R.T. 0.00 min
Lab File: VN052997.D
Acq: 19 Dec 2018 8:55

Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.8	25.8	38.8
39	43.3	34.8	52.2





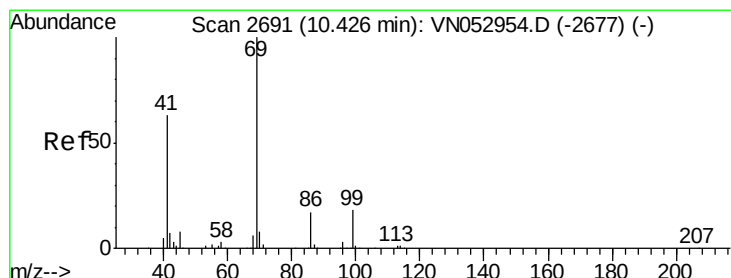
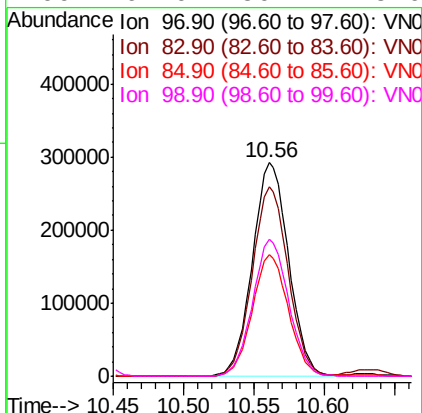
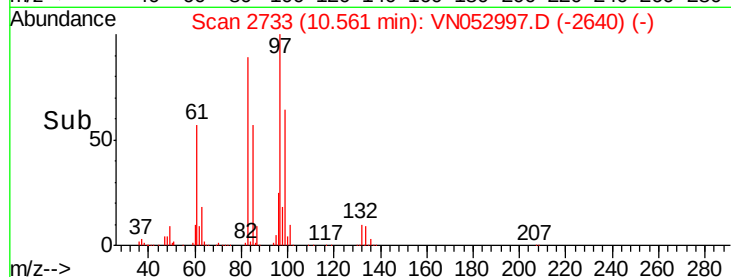
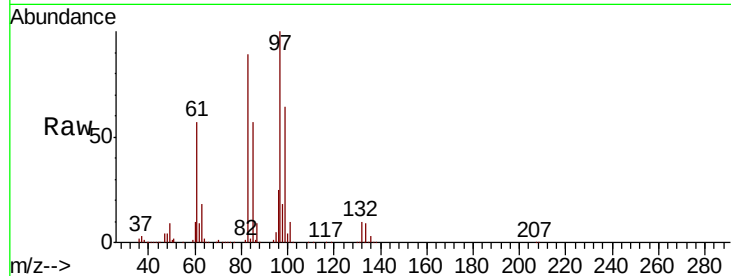
#55
 1,1,2-Trichloroethane
 Concen: 49.860 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. -0.00 min
 Lab File: VN052997.D
 Acq: 19 Dec 2018 8:55

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion:	97	Resp:	524174
Ion	Ratio	Lower	Upper
97	100		
83	88.6	70.9	106.3
85	56.8	45.4	68.2
99	64.0	50.4	75.6

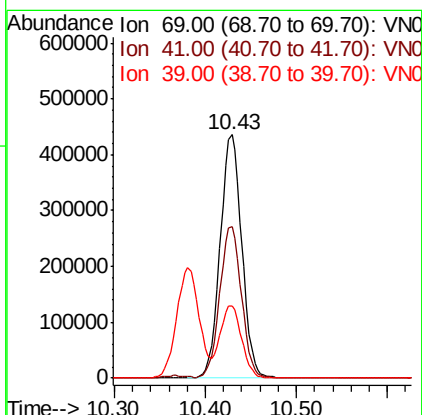
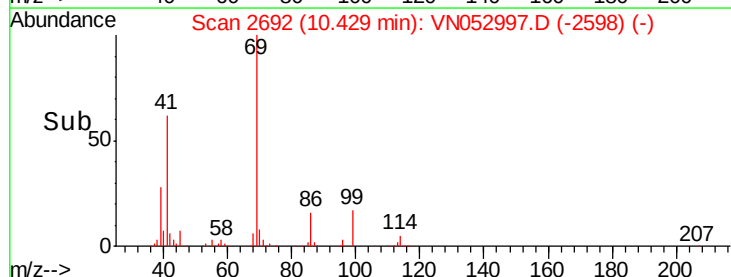
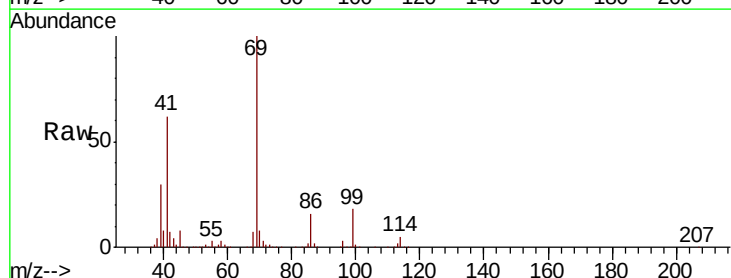
Manual Integrations
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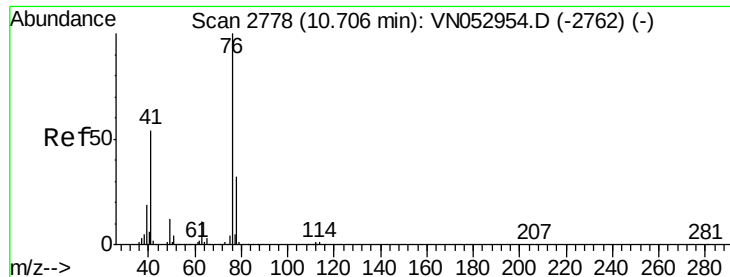
MMDadoda
 12/20/2018 9:34:12 AM



#56
 Ethyl methacrylate
 Concen: 51.679 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN052997.D
 Acq: 19 Dec 2018 8:55

Tgt Ion:	69	Resp:	719093
Ion	Ratio	Lower	Upper
69	100		
41	62.3	51.7	77.5
39	29.6	24.6	37.0





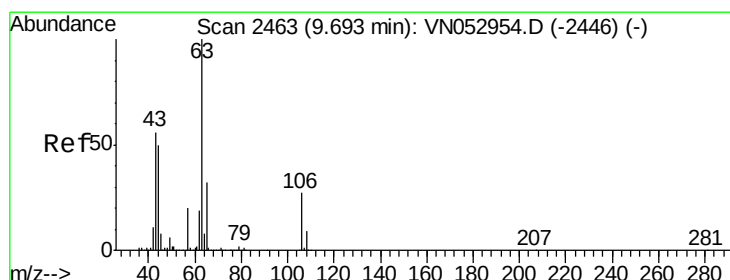
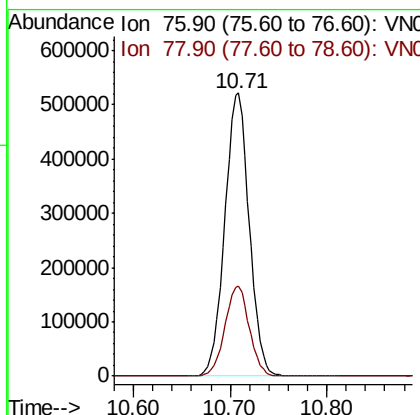
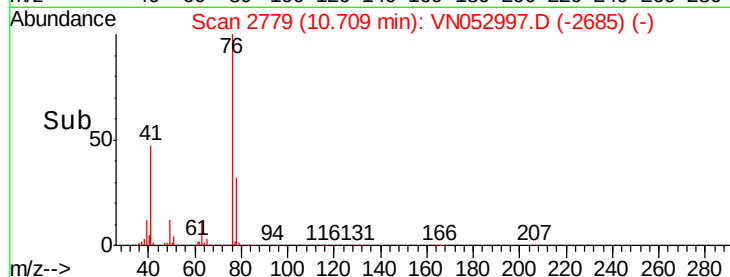
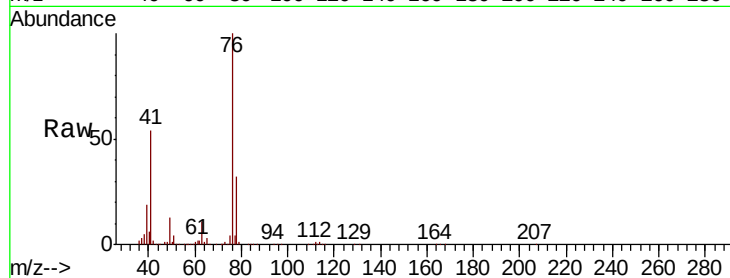
#57
 1,3-Dichloropropane
 Concen: 50.616 ug/l
 RT: 10.71 min Scan# 2779
 Delta R.T. 0.00 min
 Lab File: VN052997.D
 Acq: 19 Dec 2018 8:55

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion: 76 Resp: 912490
 Ion Ratio Lower Upper
 76 100
 78 31.8 25.8 38.8

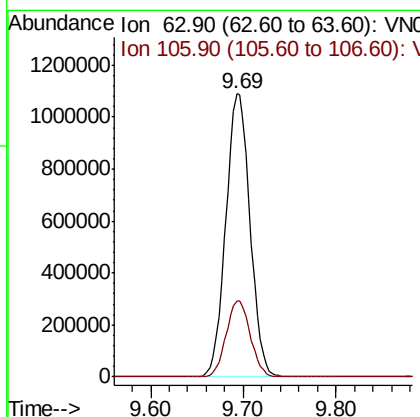
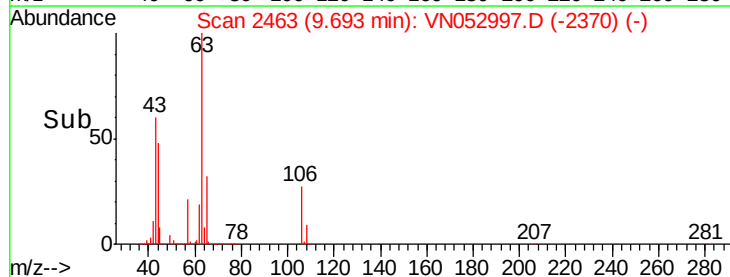
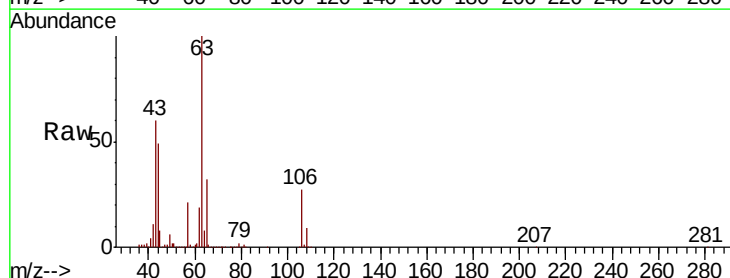
Manual Integrations
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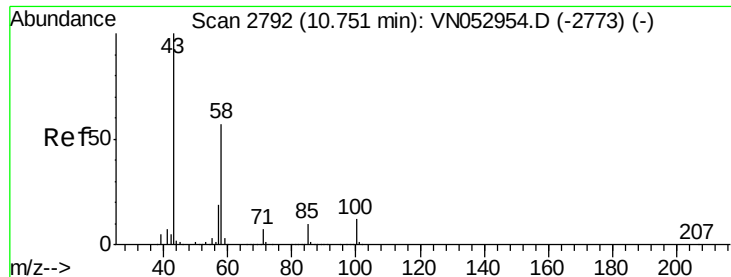
MMDadoda
 12/20/2018 9:34:12 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 257.676 ug/l
 RT: 9.69 min Scan# 2463
 Delta R.T. -0.00 min
 Lab File: VN052997.D
 Acq: 19 Dec 2018 8:55

Tgt Ion: 63 Resp: 1968420
 Ion Ratio Lower Upper
 63 100
 106 26.9 21.0 31.6





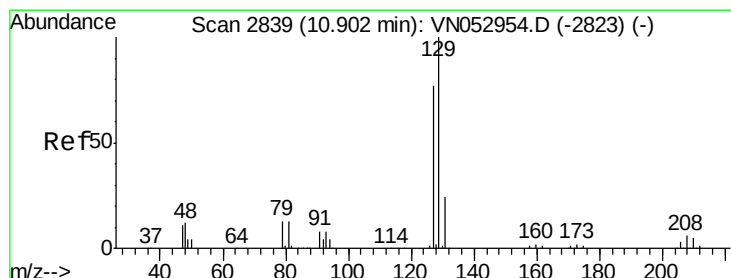
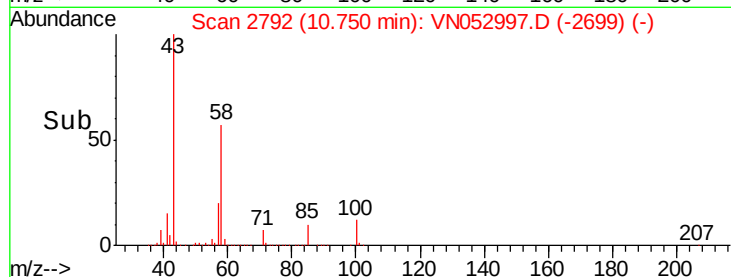
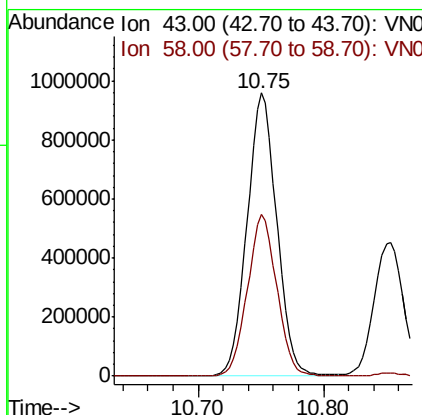
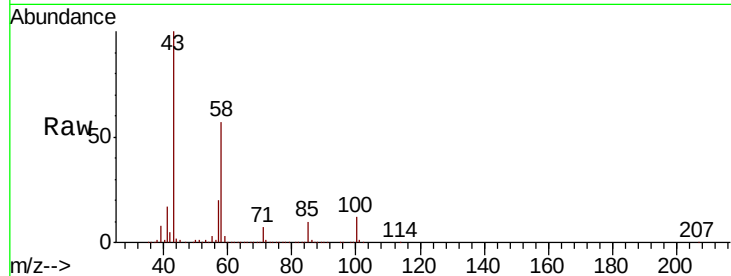
#59
2-Hexanone
Concen: 264.164 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. -0.00 min
Lab File: VN052997.D
Acq: 19 Dec 2018 8:55

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 1579291
Ion Ratio Lower Upper
43 100
58 56.6 28.1 84.3

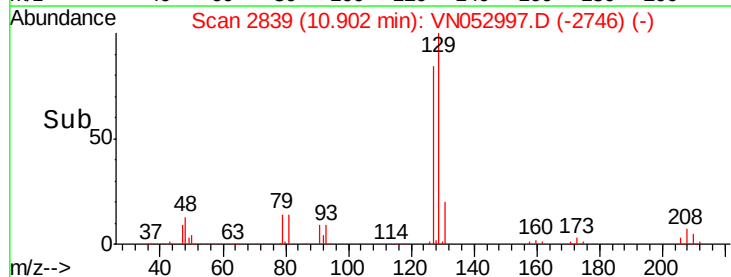
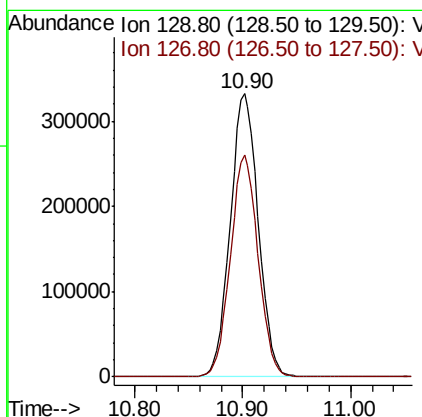
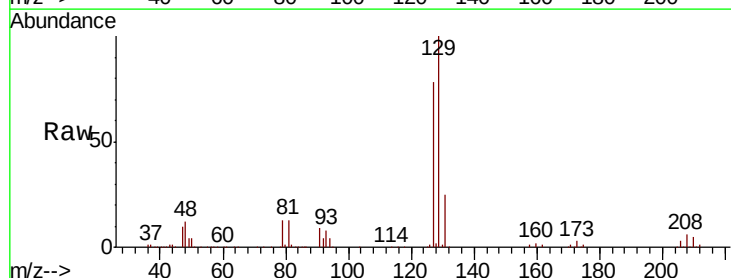
Manual Integrations
APPROVED

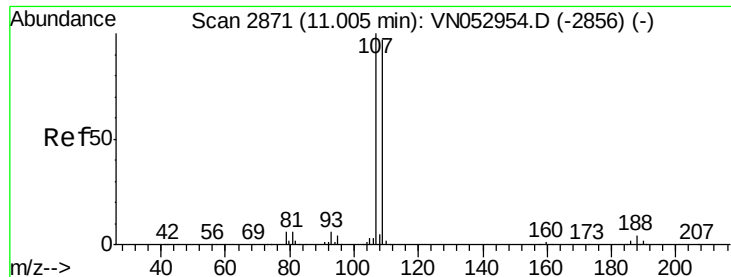
MMDadoda
12/20/2018 9:34:12 AM



#60
Dibromochloromethane
Concen: 49.992 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. -0.00 min
Lab File: VN052997.D
Acq: 19 Dec 2018 8:55

Tgt Ion: 129 Resp: 601595
Ion Ratio Lower Upper
129 100
127 77.3 38.6 116.0





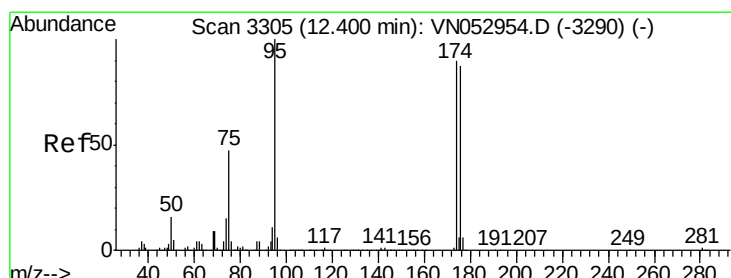
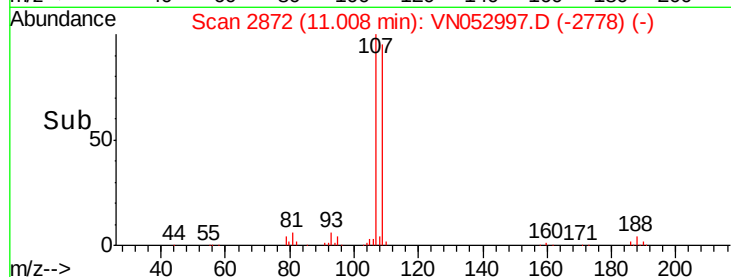
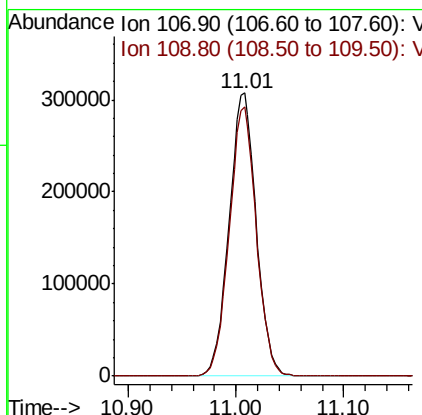
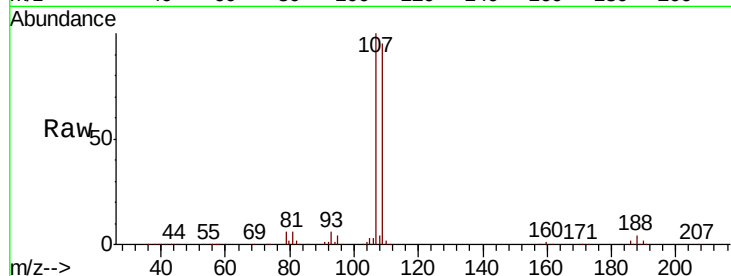
#61
1,2-Dibromoethane
Concen: 50.436 ug/l
RT: 11.01 min Scan# 2872
Delta R.T. 0.00 min
Lab File: VN052997.D
Acq: 19 Dec 2018 8:55

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 107 Resp: 538499
Ion Ratio Lower Upper
107 100
109 94.8 75.4 113.0

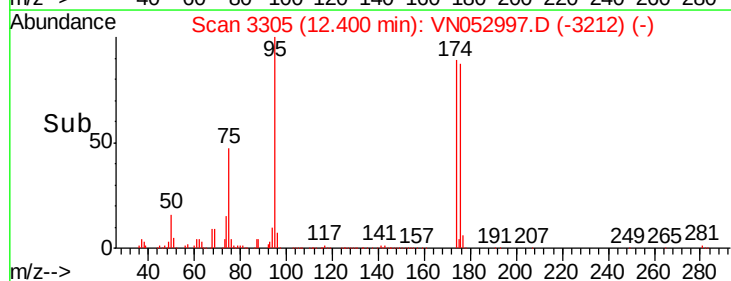
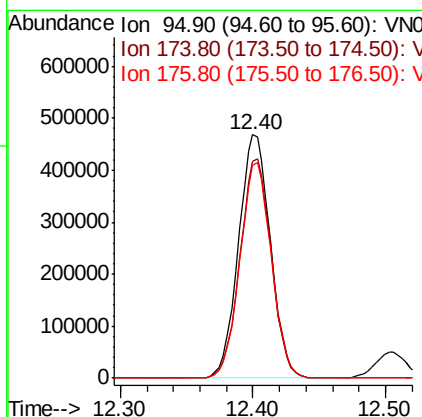
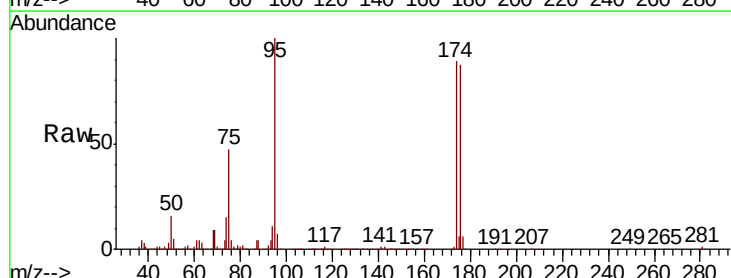
Manual Integrations
APPROVED

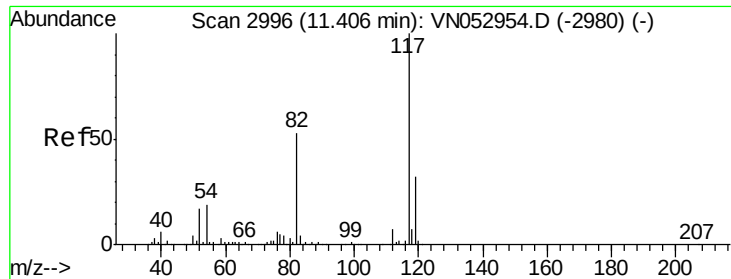
MMDadoda
12/20/2018 9:34:12 AM



#62
4-Bromofluorobenzene
Concen: 50.436 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN052997.D
Acq: 19 Dec 2018 8:55

Tgt Ion: 95 Resp: 775052
Ion Ratio Lower Upper
95 100
174 89.5 0.0 178.8
176 87.6 0.0 173.8





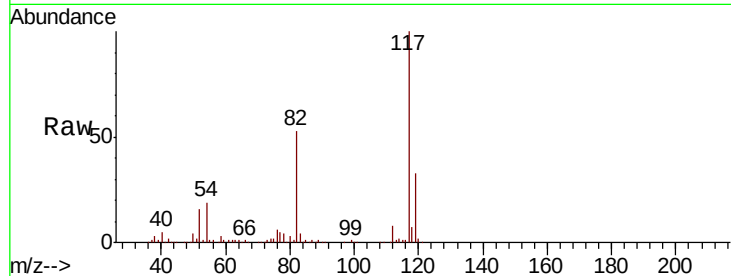
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN052997.D
Acq: 19 Dec 2018 8:55

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.1	42.8	64.2
119	32.6	25.5	38.3

Manual Integrations
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MMDadoda
12/20/2018 9:34:12 AM

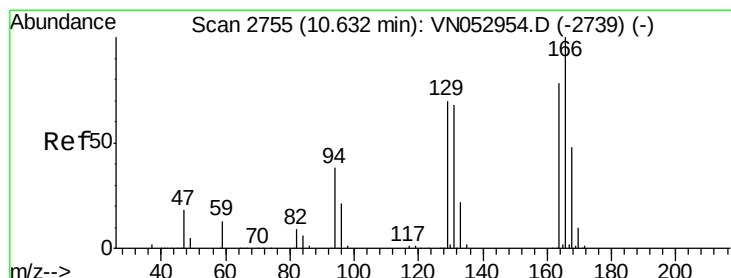
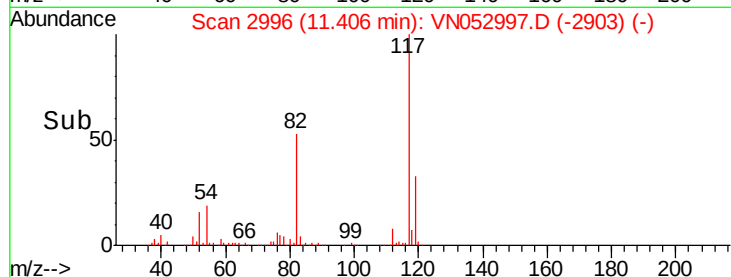
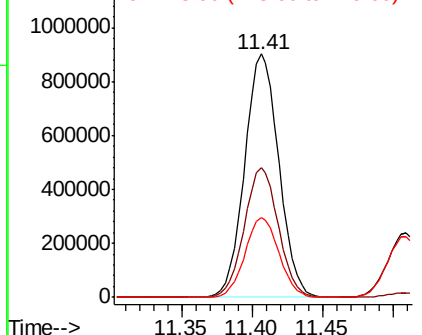


Abundance

Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#64
Tetrachloroethene
Concen: 48.718 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.00 min
Lab File: VN052997.D
Acq: 19 Dec 2018 8:55

Tgt Ion	Ratio	Lower	Upper
164	100		
166	128.1	102.9	154.3
129	90.9	73.7	110.5
131	87.7	70.7	106.1

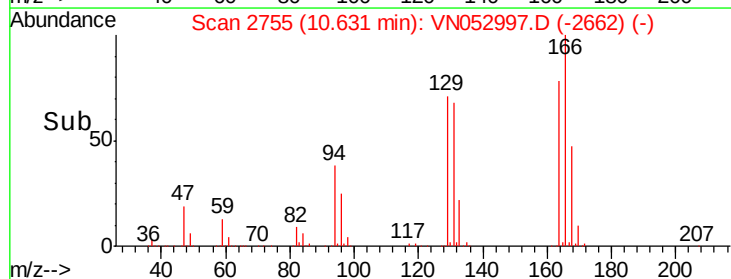
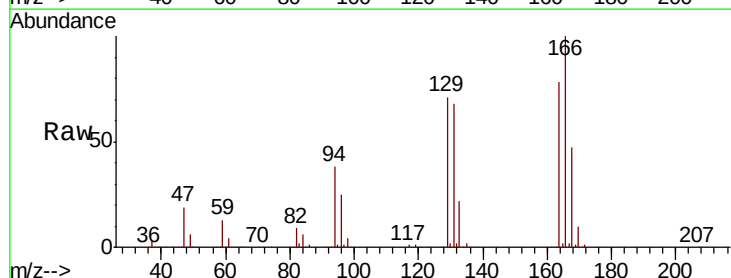
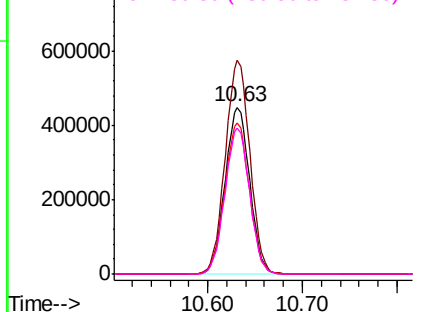
Abundance

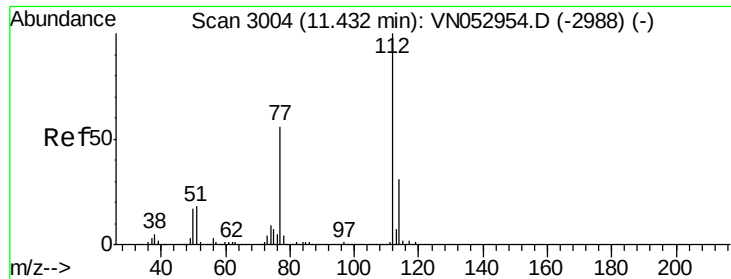
Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





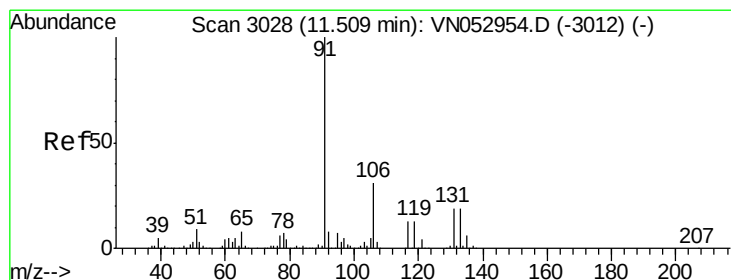
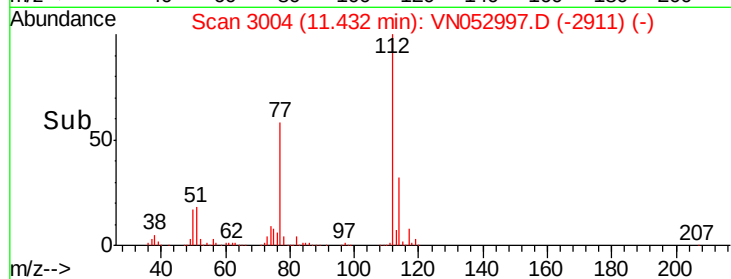
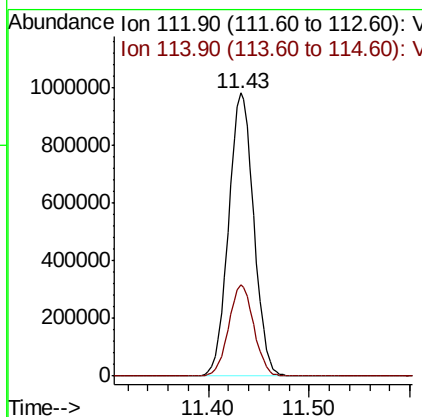
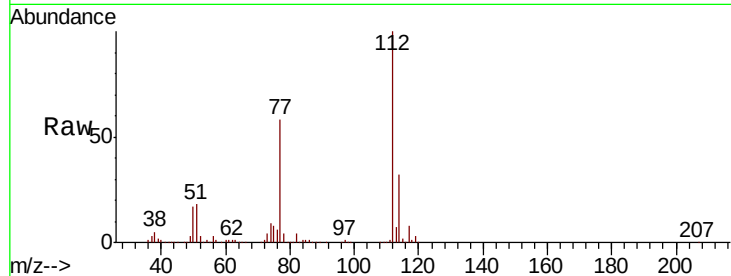
#65
Chlorobenzene
Concen: 50.075 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. -0.00 min
Lab File: VN052997.D
Acq: 19 Dec 2018 8:55

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion:112 Resp: 1702028
Ion Ratio Lower Upper
112 100
114 32.3 25.5 38.3

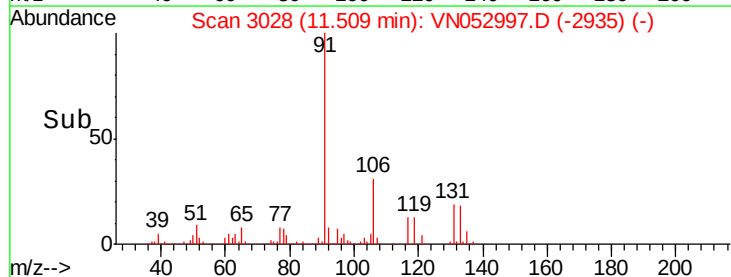
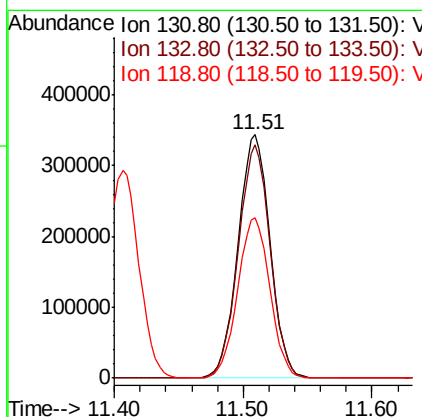
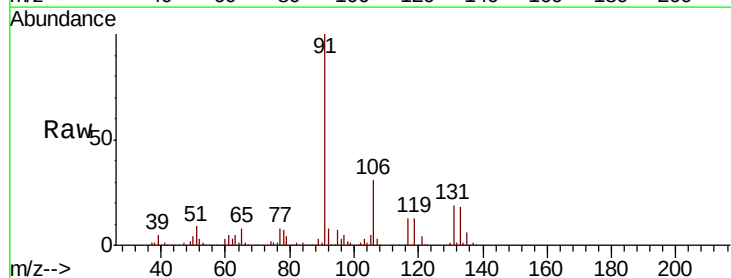
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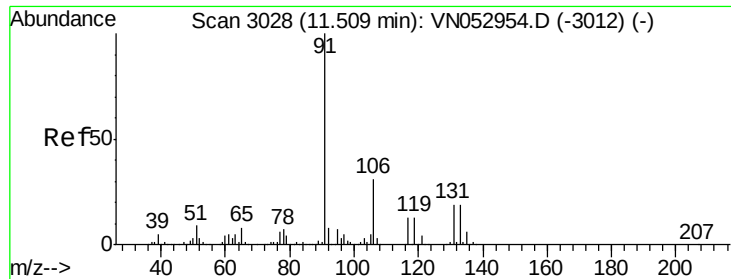
MMDadoda
12/20/2018 9:34:12 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 50.150 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN052997.D
Acq: 19 Dec 2018 8:55

Tgt Ion:131 Resp: 592757
Ion Ratio Lower Upper
131 100
133 95.4 47.6 142.9
119 66.4 33.3 99.8





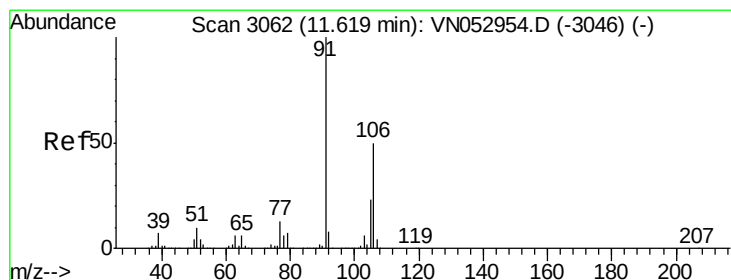
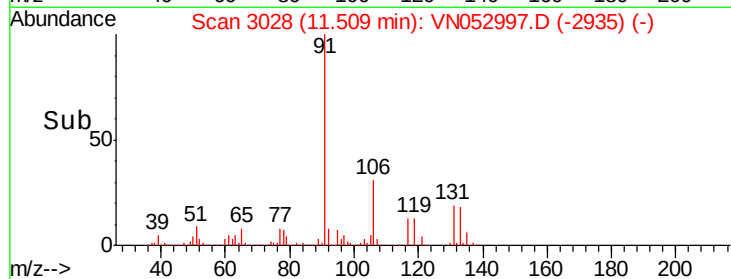
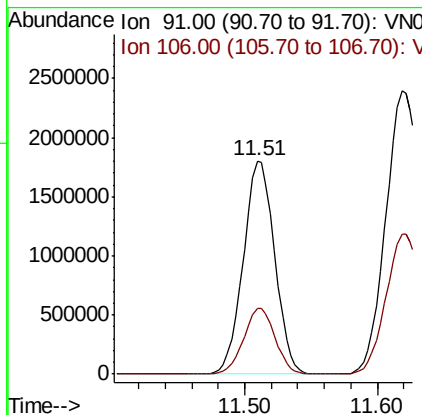
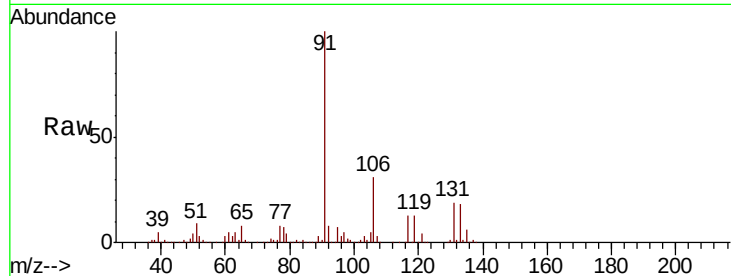
#67
Ethyl Benzene
Concen: 50.669 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN052997.D
Acq: 19 Dec 2018 8:55

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 2961716
Ion Ratio Lower Upper
91 100
106 30.9 24.9 37.3

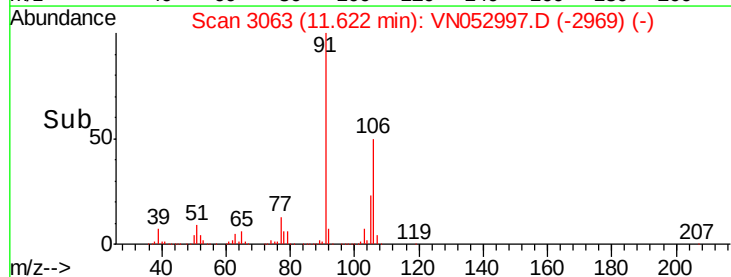
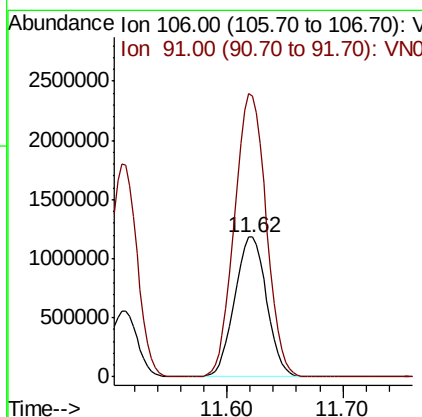
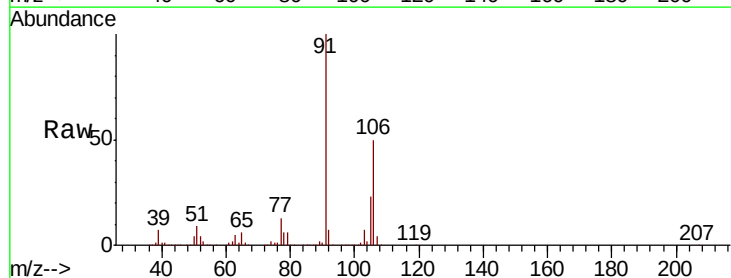
Manual Integrations
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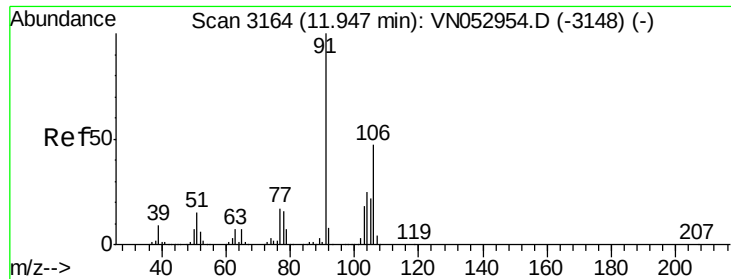
MMDadoda
12/20/2018 9:34:12 AM



#68
m/p-Xylenes
Concen: 101.325 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN052997.D
Acq: 19 Dec 2018 8:55

Tgt Ion: 106 Resp: 2251567
Ion Ratio Lower Upper
106 100
91 202.1 162.2 243.4





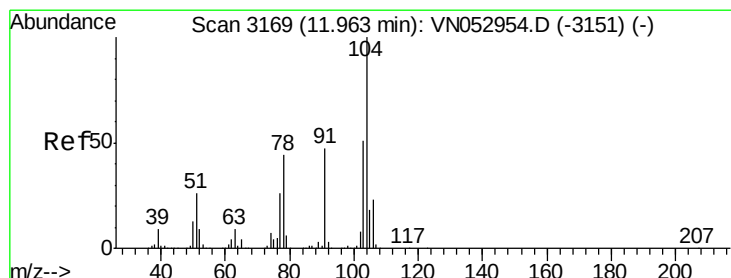
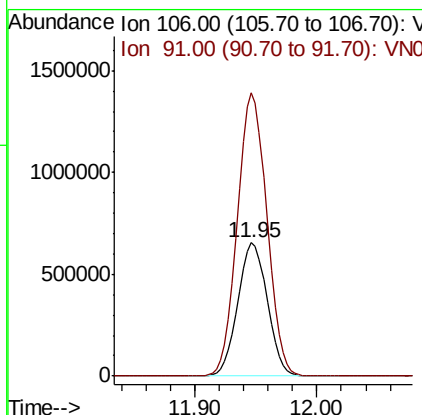
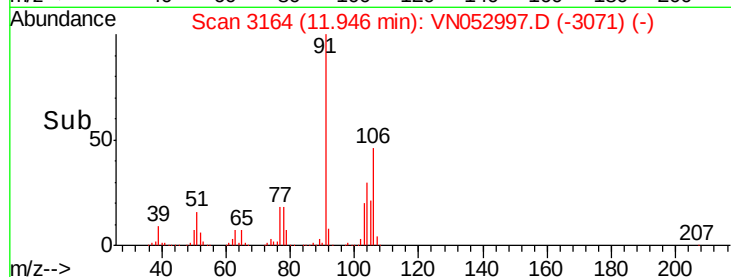
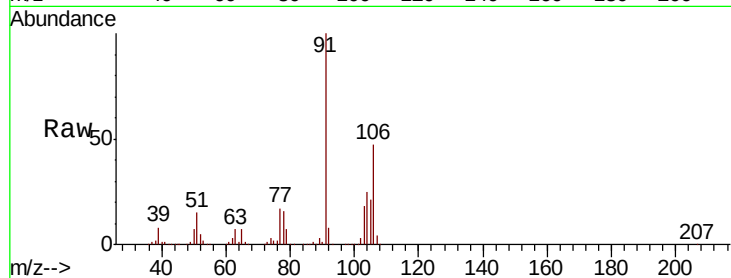
#69
o-Xylene
Concen: 51.027 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN052997.D
Acq: 19 Dec 2018 8:55

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion:106 Resp: 1088061
Ion Ratio Lower Upper
106 100
91 213.2 106.6 319.8

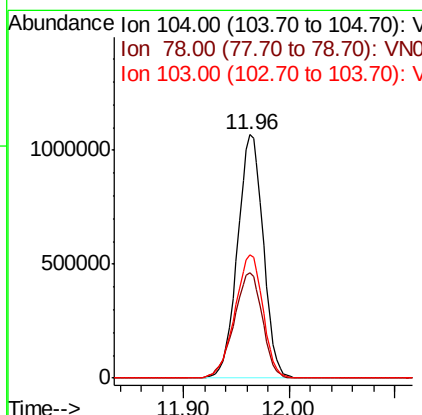
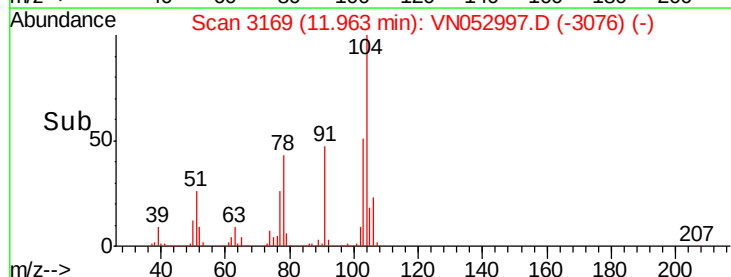
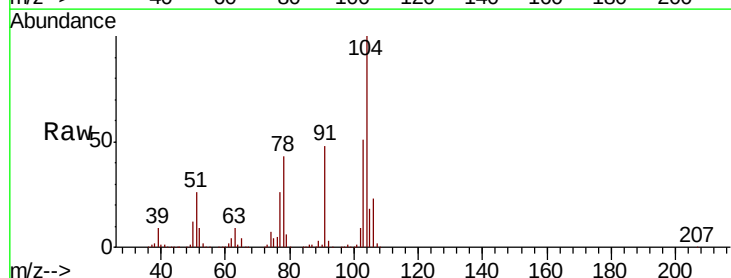
Manual Integrations
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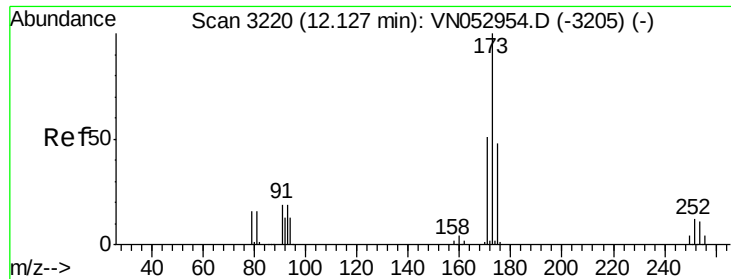
MMDadoda
12/20/2018 9:34:12 AM



#70
Styrene
Concen: 51.648 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN052997.D
Acq: 19 Dec 2018 8:55

Tgt Ion:104 Resp: 1795782
Ion Ratio Lower Upper
104 100
78 48.0 38.9 58.3
103 55.4 44.3 66.5





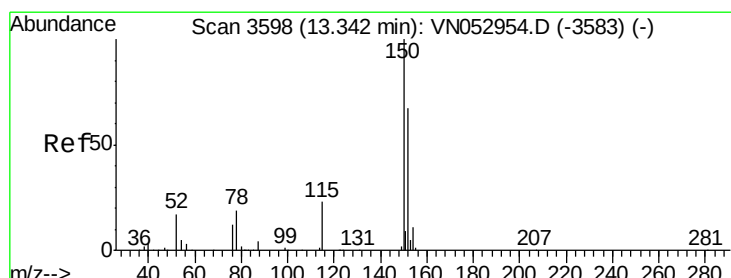
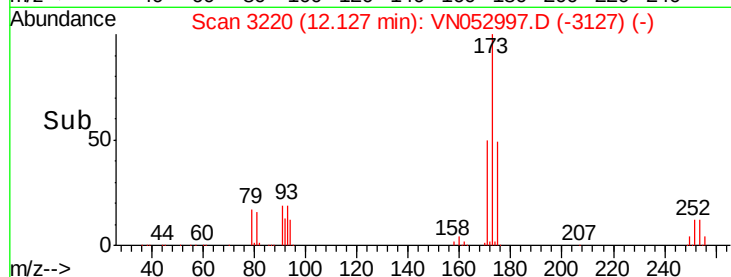
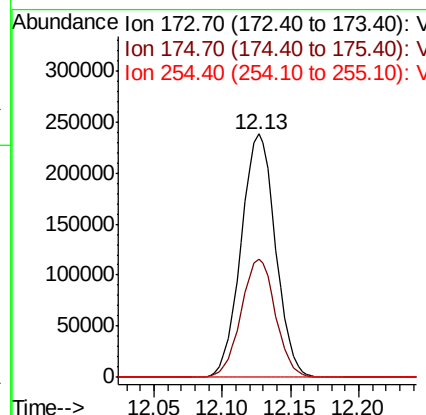
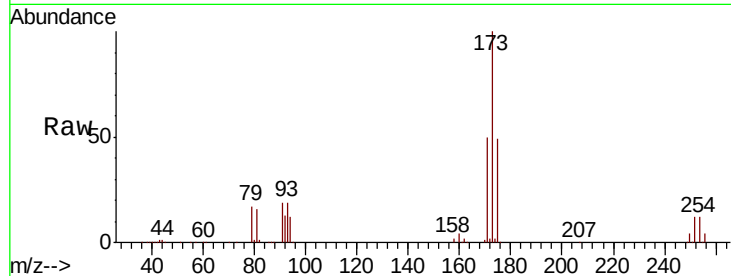
#71
Bromoform
Concen: 48.846 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. -0.00 min
Lab File: VN052997.D
Acq: 19 Dec 2018 8:55

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.3	24.3	72.9
254	0.2	0.1	0.1#

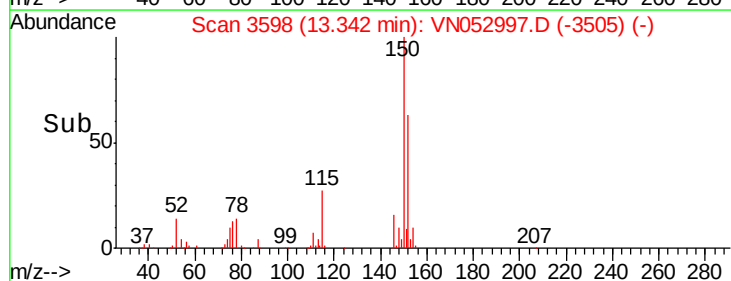
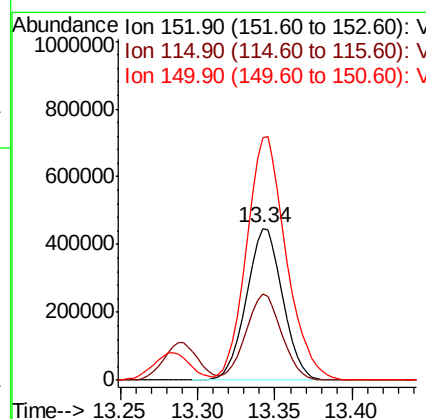
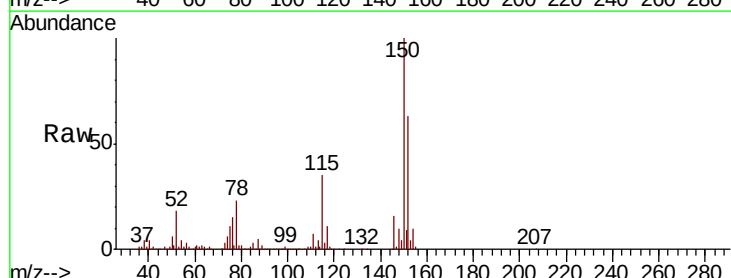
Manual Integrations
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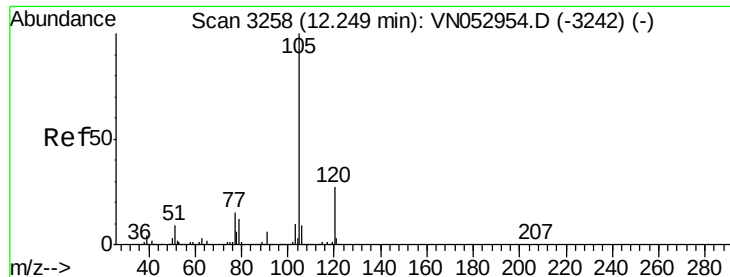
MMDadoda
12/20/2018 9:34:12 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN052997.D
Acq: 19 Dec 2018 8:55

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.2	28.3	85.0
150	175.6	0.0	347.8





#73

Isopropylbenzene

Concen: 51.063 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN052997.D

Acq: 19 Dec 2018 8:55

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 2905756

Ion Ratio Lower Upper

105 100

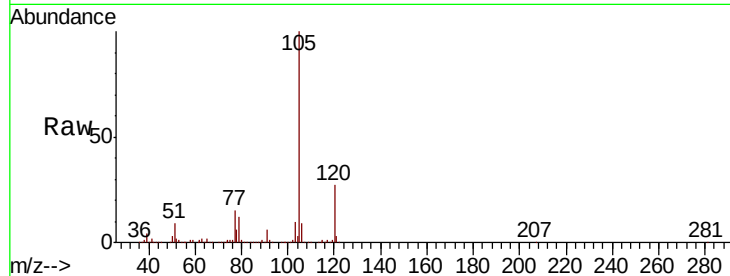
120 26.8 13.3 39.9

Manual Integrations

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MMDadoda

12/20/2018 9:34:12 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

2000000

1500000

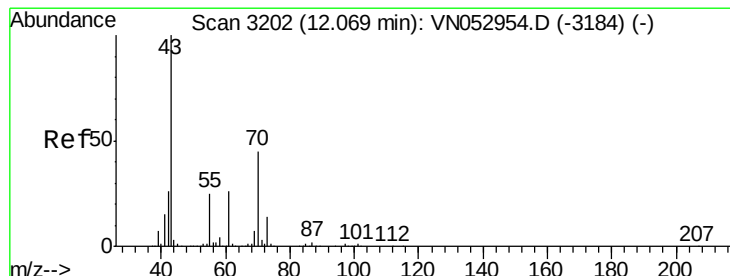
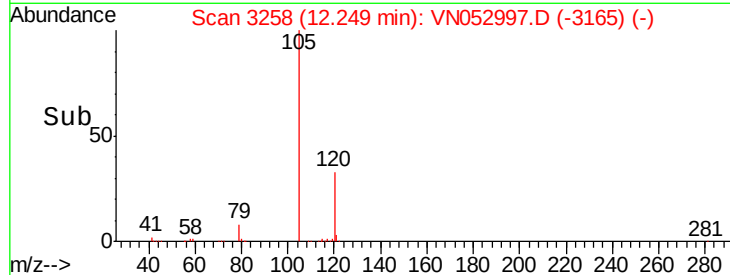
1000000

500000

0

12.20 12.25 12.30

Time-->



#74

N-ethyl acetate

Concen: 51.256 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN052997.D

Acq: 19 Dec 2018 8:55

Tgt Ion: 43 Resp: 809790

Ion Ratio Lower Upper

43 100

70 44.6 34.2 51.4

55 25.1 20.3 30.5

61 25.8 20.0 30.0

Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V

800000

600000

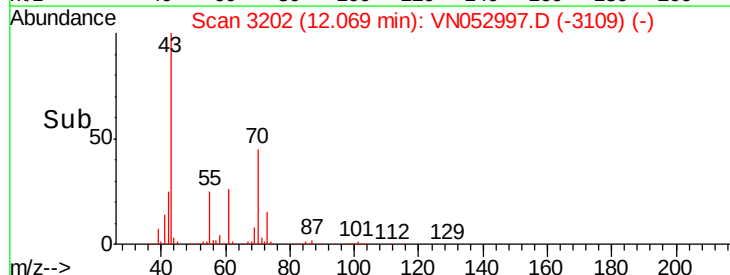
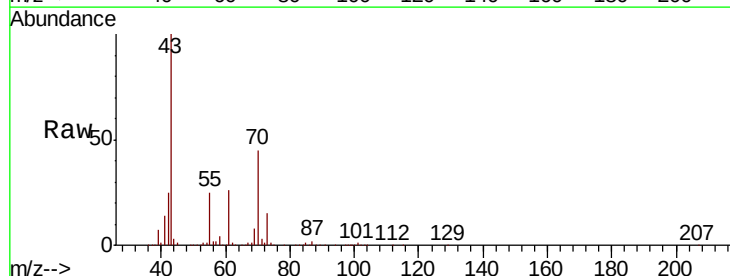
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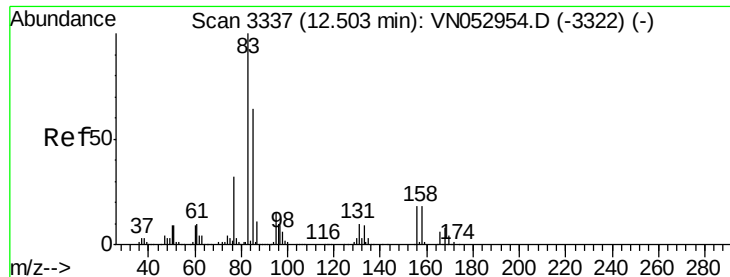
200000

0

12.00 12.07 12.10

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 51.171 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. -0.00 min

Lab File: VN052997.D

Acq: 19 Dec 2018 8:55

Instrument :

MSVOA_N

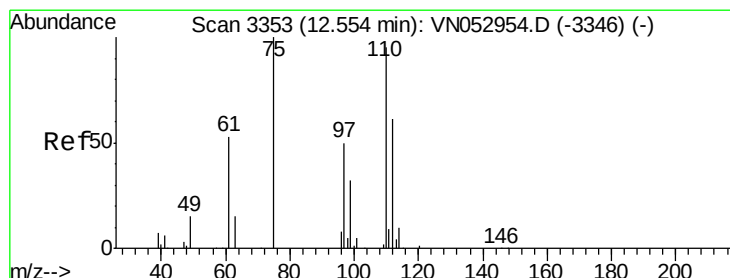
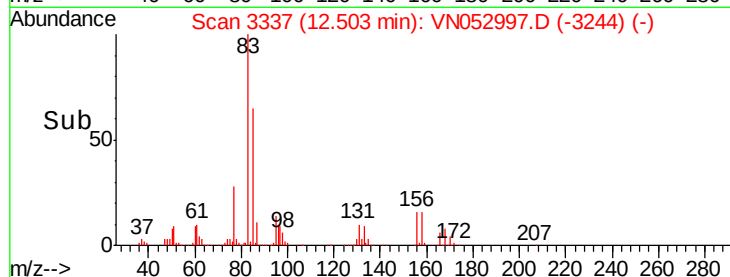
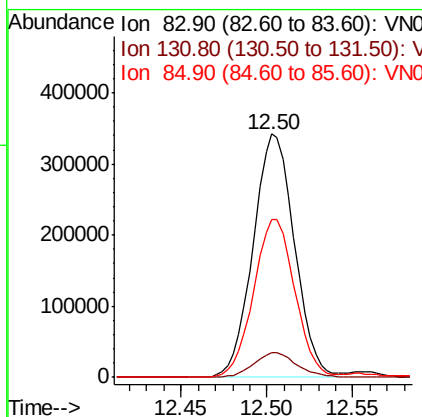
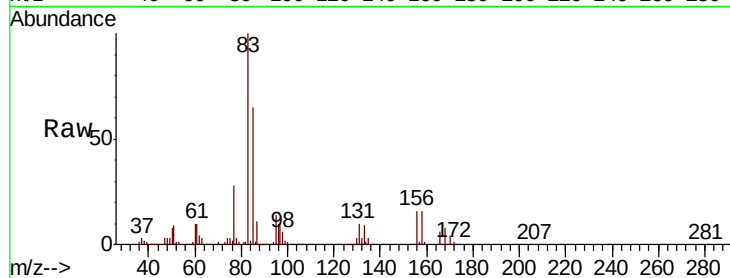
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	571277
Ion Ratio	Lower	Upper	
83	100		
131	10.5	5.2	15.6
85	64.6	32.4	97.0

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 43.293 ug/l m

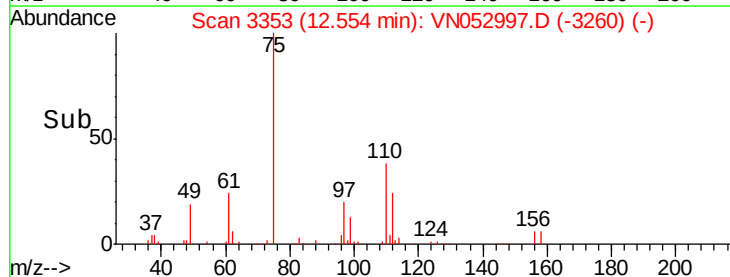
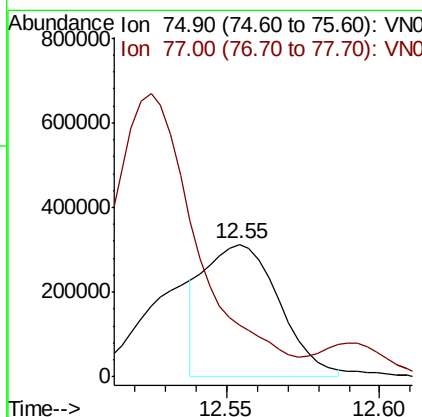
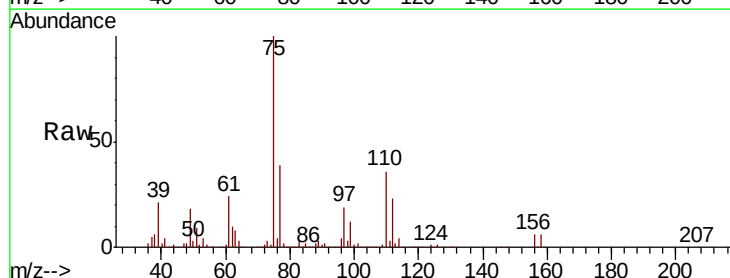
RT: 12.55 min Scan# 3353

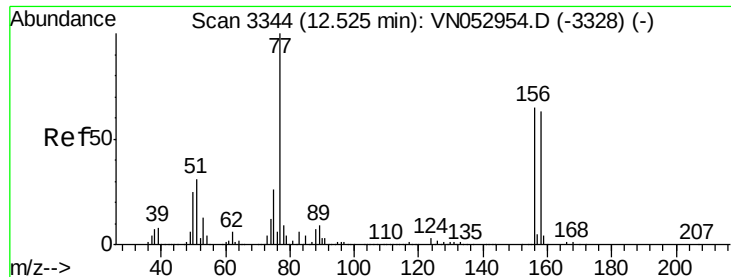
Delta R.T. -0.00 min

Lab File: VN052997.D

Acq: 19 Dec 2018 8:55

Tgt Ion:	75	Resp:	530059
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 50.142 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN052997.D

Acq: 19 Dec 2018 8:55

Instrument :

MSVOA_N

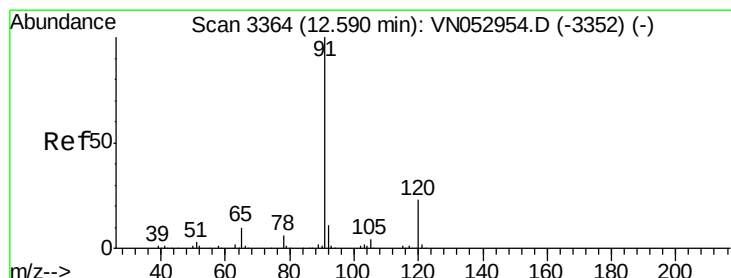
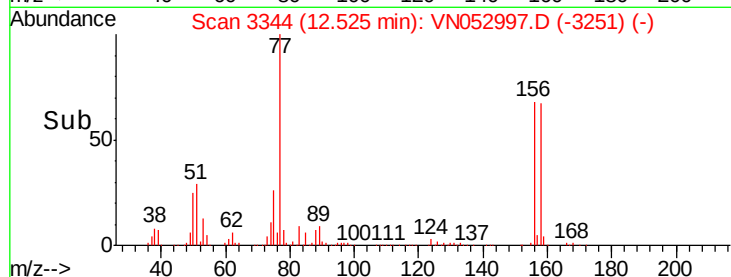
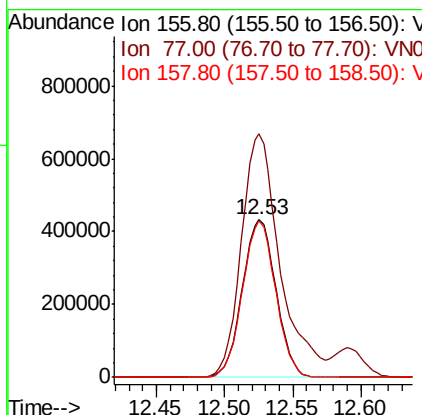
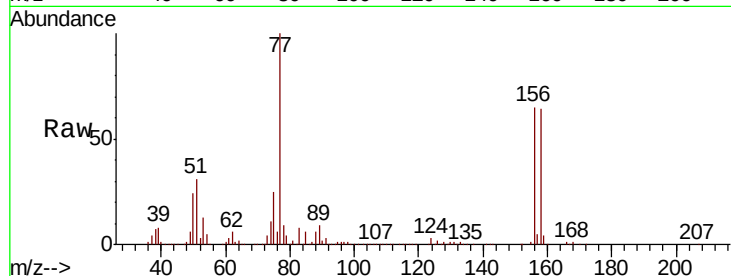
ClientSampleId :

VSTDCCC050

Tot Ion	Ratio	Lower	Upper
156	100		
77	177.0	91.3	273.8
158	97.7	49.0	147.2

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#78

n-propylbenzene

Concen: 51.557 ug/l

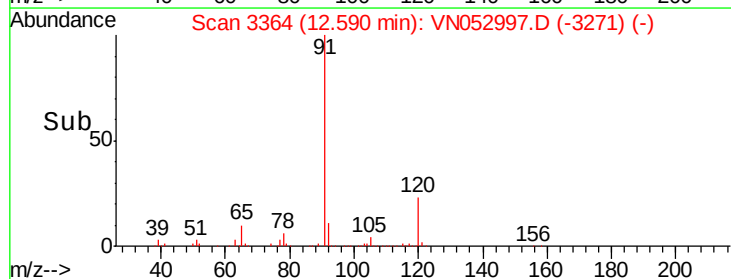
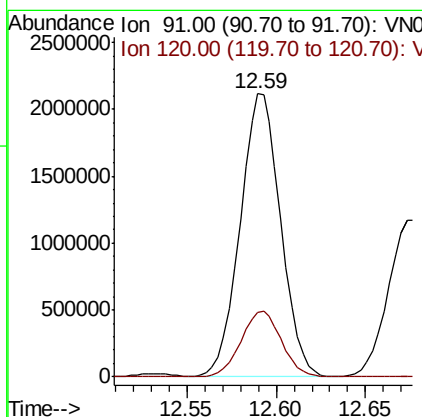
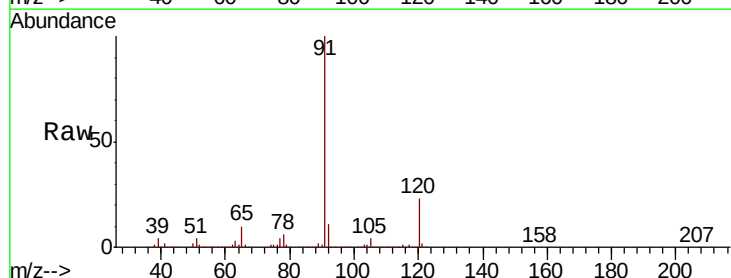
RT: 12.59 min Scan# 3364

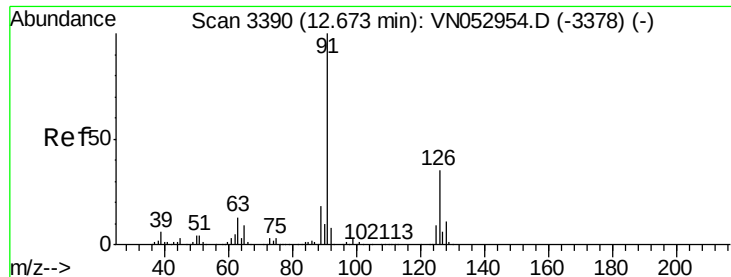
Delta R.T. -0.00 min

Lab File: VN052997.D

Acq: 19 Dec 2018 8:55

Tgt Ion	Ratio	Lower	Upper
91	100		
120	23.2	11.5	34.5





#79

2-Chlorotoluene

Concen: 48.113 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN052997.D

Acq: 19 Dec 2018 8:55

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 1932805

Ion Ratio Lower Upper

91 100

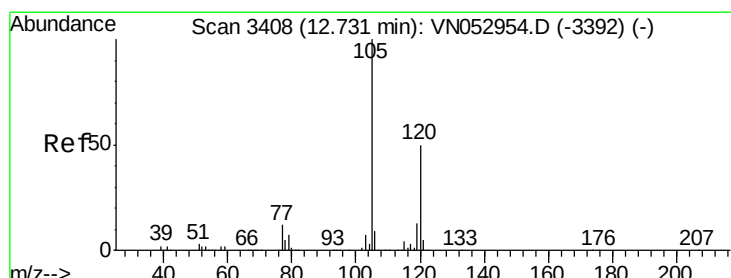
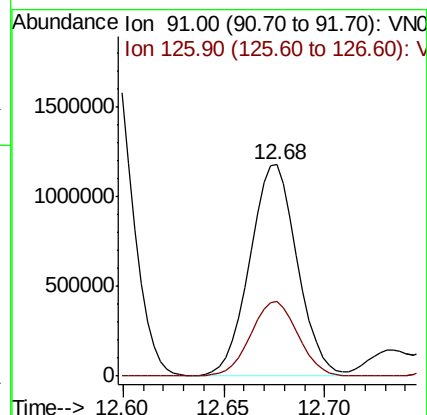
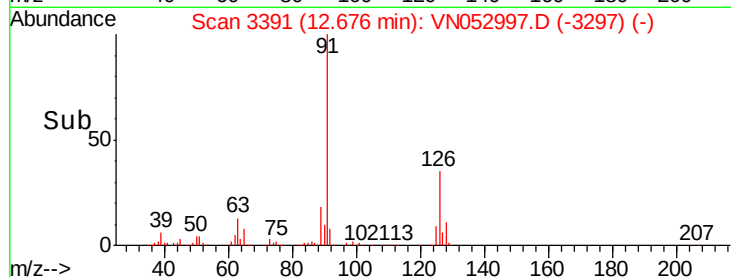
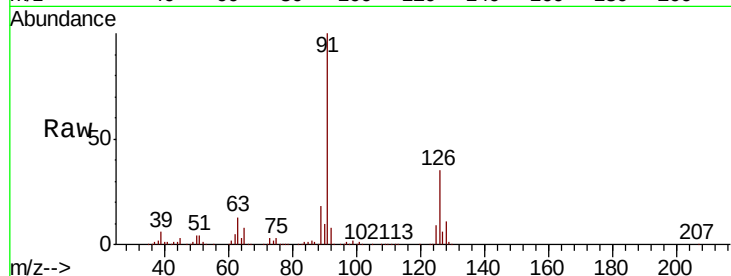
126 35.4 17.4 52.3

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 50.453 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN052997.D

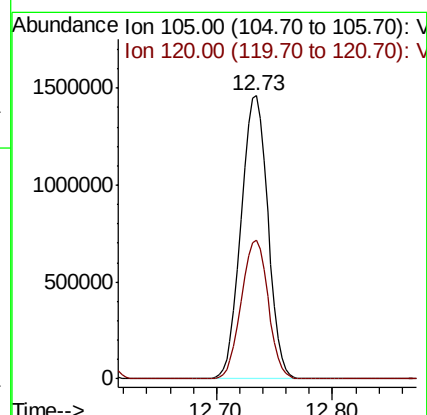
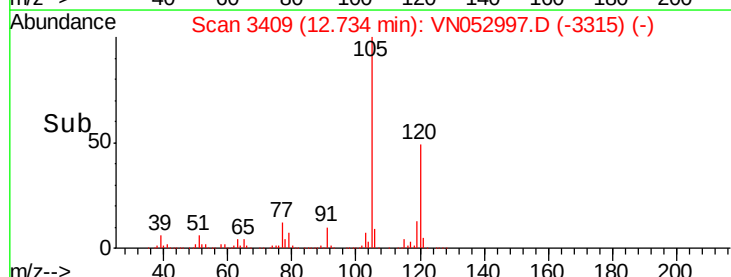
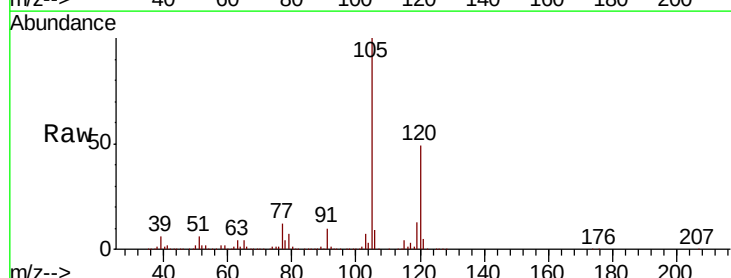
Acq: 19 Dec 2018 8:55

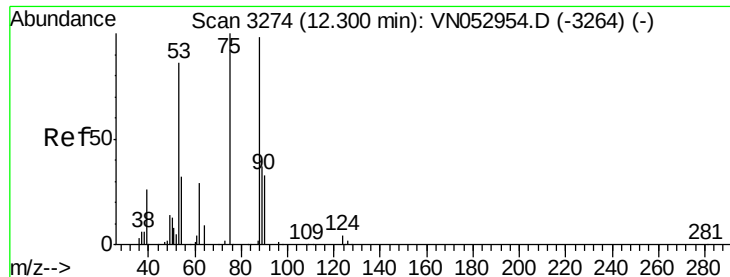
Tgt Ion: 105 Resp: 2340180

Ion Ratio Lower Upper

105 100

120 49.2 24.4 73.2





#81

trans-1,4-Dichloro-2-butene

Concen: 50.752 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. -0.00 min

Lab File: VN052997.D

Acq: 19 Dec 2018 8:55

Instrument :

MSVOA_N

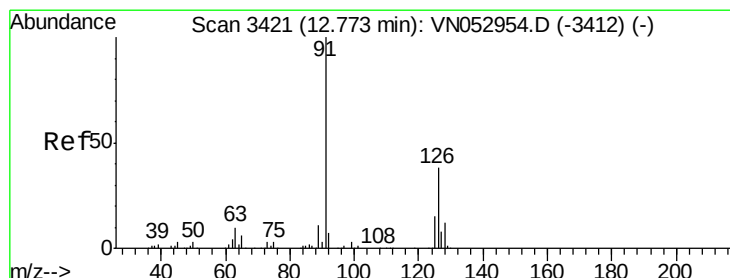
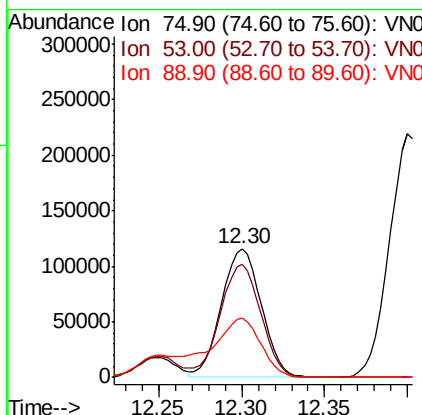
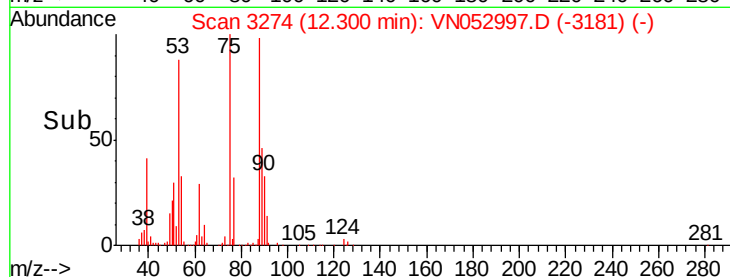
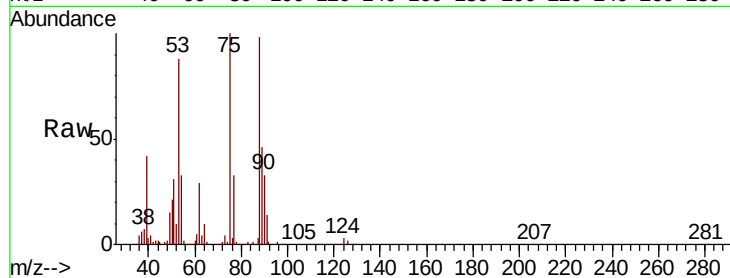
ClientSampleId :

VSTDCCC050

Tot Ion:	75	Resp:	192791
Ion Ratio	Lower	Upper	
75	100		
53	90.1	74.7	112.1
89	48.0	36.1	54.1

Manual Integrations
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#82

4-Chlorotoluene

Concen: 50.566 ug/l

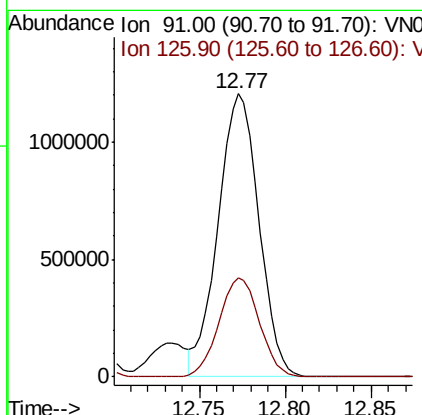
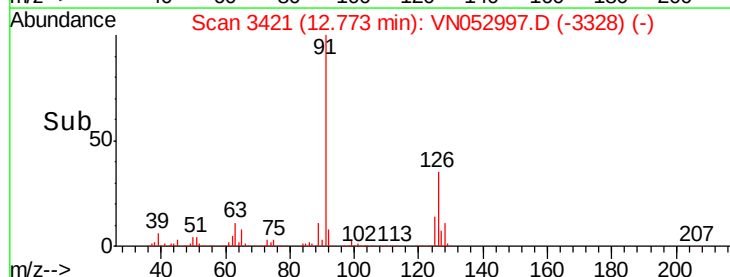
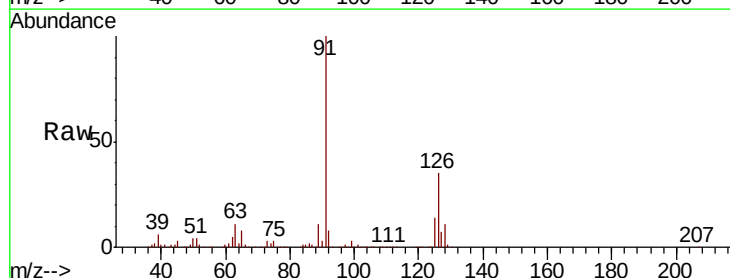
RT: 12.77 min Scan# 3421

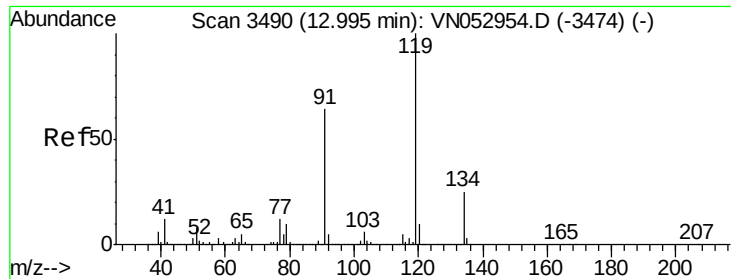
Delta R.T. -0.00 min

Lab File: VN052997.D

Acq: 19 Dec 2018 8:55

Tgt Ion:	91	Resp:	1988502
Ion Ratio	Lower	Upper	
91	100		
126	34.8	17.3	51.7





#83

tert-Butylbenzene

Concen: 49.885 ug/l

RT: 12.99 min Scan# 3490

Delta R.T. -0.00 min

Lab File: VN052997.D

Acq: 19 Dec 2018 8:55

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:119 Resp: 2046351

Ion Ratio Lower Upper

119 100

91 63.4 31.9 95.5

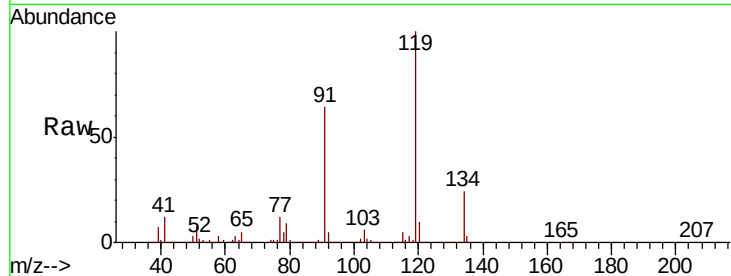
134 25.3 12.8 38.4

Manual Integrations

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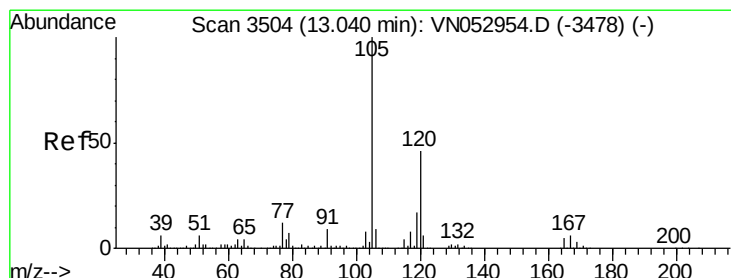
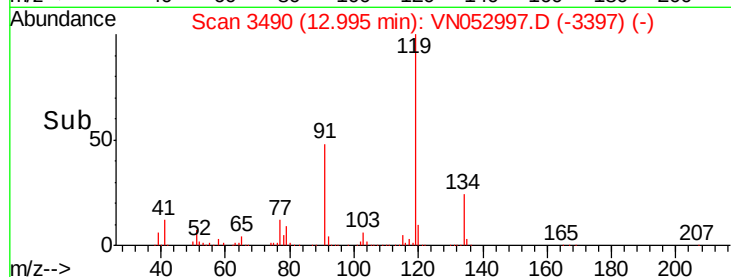
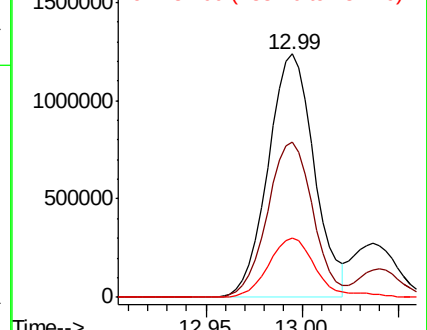
12/20/2018 9:34:12 AM



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VN

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 50.633 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. -0.00 min

Lab File: VN052997.D

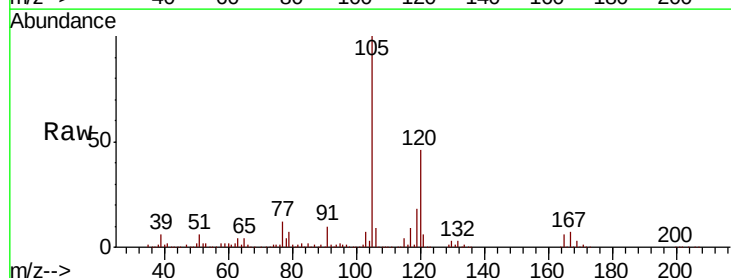
Acq: 19 Dec 2018 8:55

Tgt Ion:105 Resp: 2360893

Ion Ratio Lower Upper

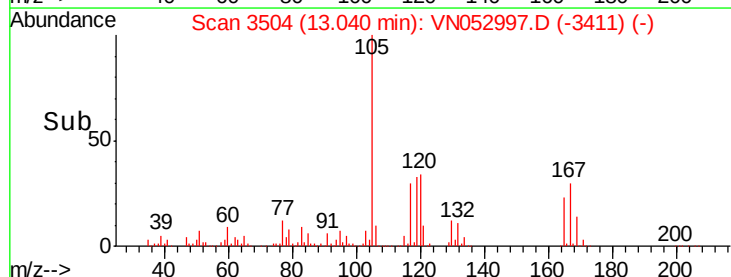
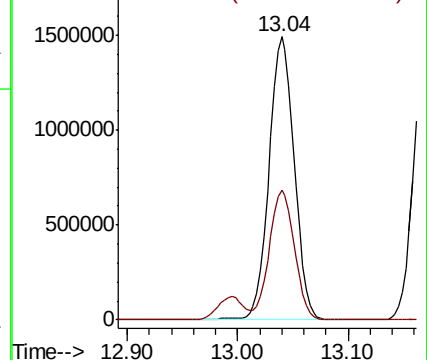
105 100

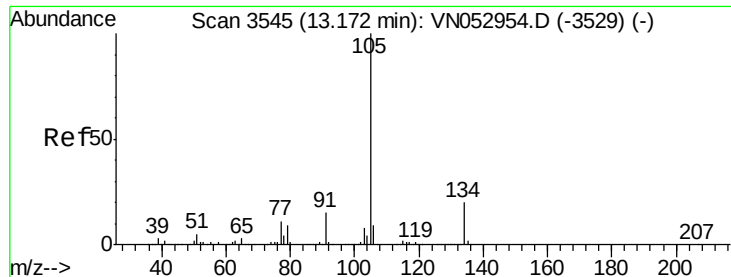
120 46.0 22.9 68.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 50.279 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. -0.00 min

Lab File: VN052997.D

Acq: 19 Dec 2018 8:55

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 2789772

Ion Ratio Lower Upper

105 100

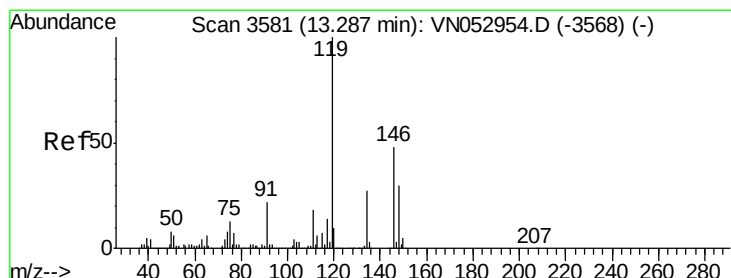
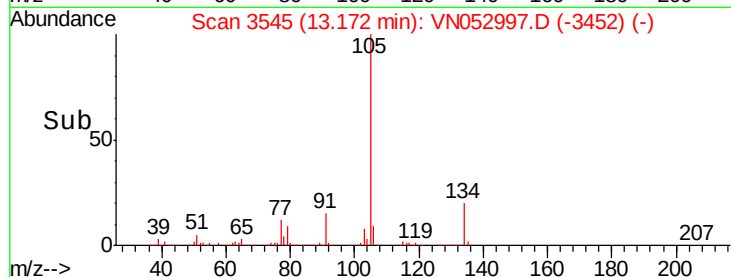
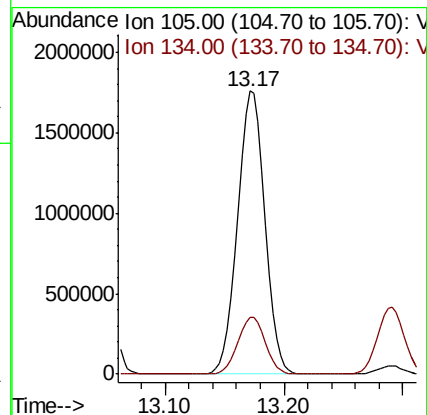
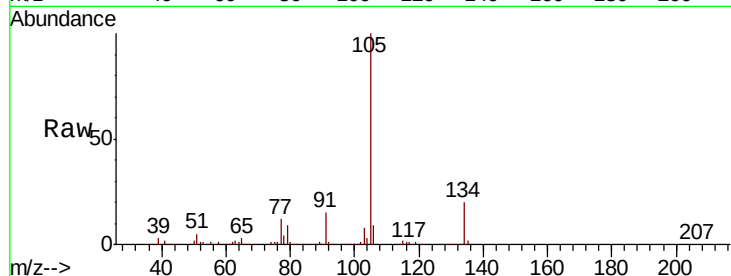
134 20.2 10.1 30.3

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#86

p-Isopropyltoluene

Concen: 50.481 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN052997.D

Acq: 19 Dec 2018 8:55

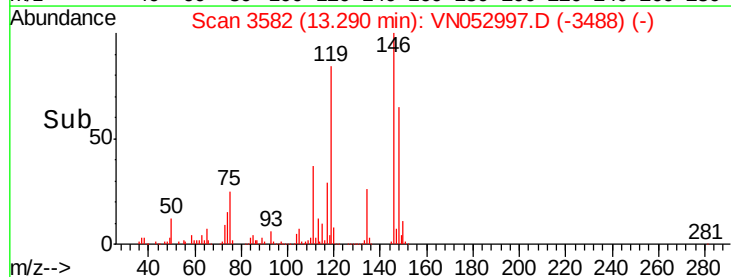
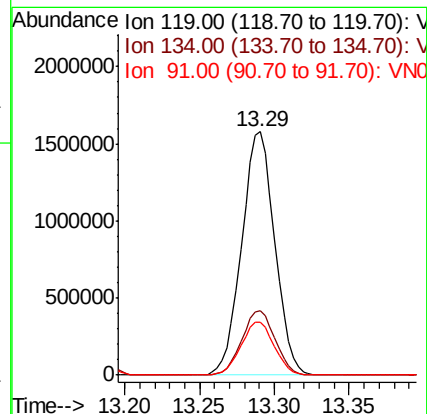
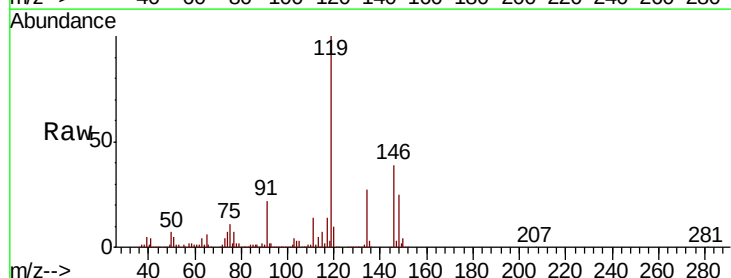
Tgt Ion:119 Resp: 2420289

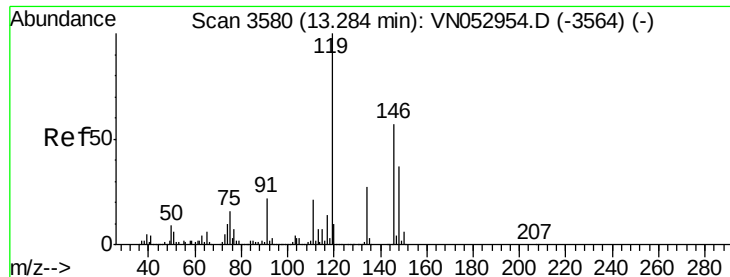
Ion Ratio Lower Upper

119 100

134 26.7 13.4 40.2

91 22.1 11.1 33.3





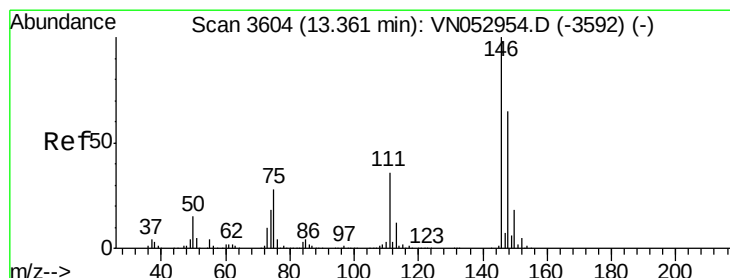
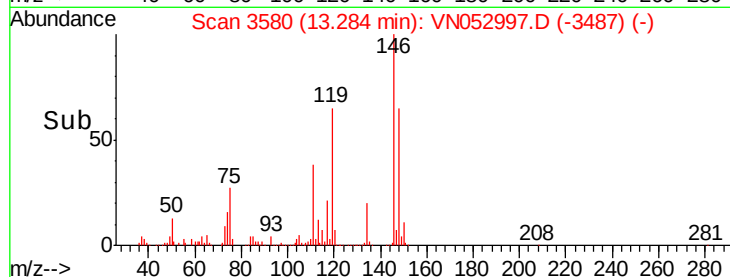
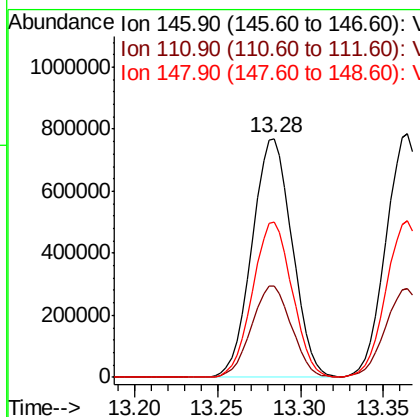
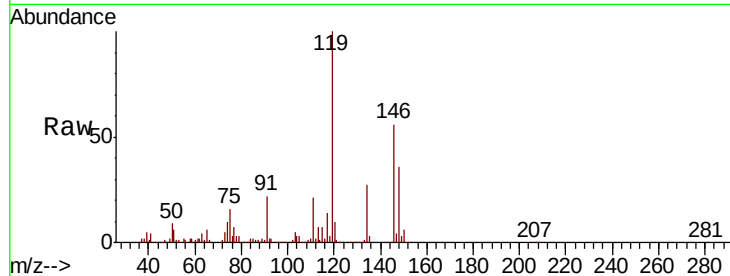
#87
 1,3-Dichlorobenzene
 Concen: 49.380 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. -0.00 min
 Lab File: VN052997.D
 Acq: 19 Dec 2018 8:55

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.1	19.1	57.1
148	64.3	32.0	96.0

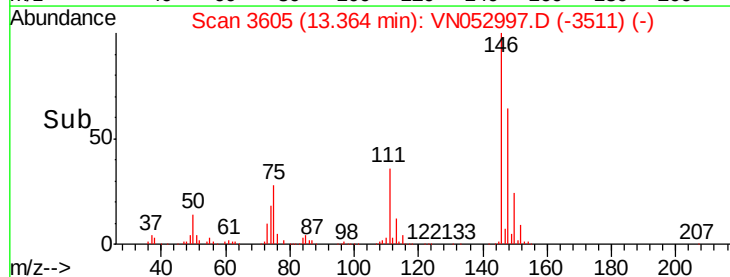
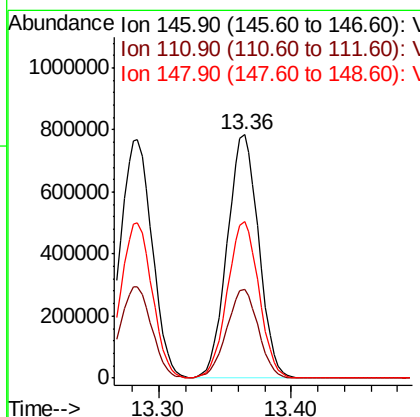
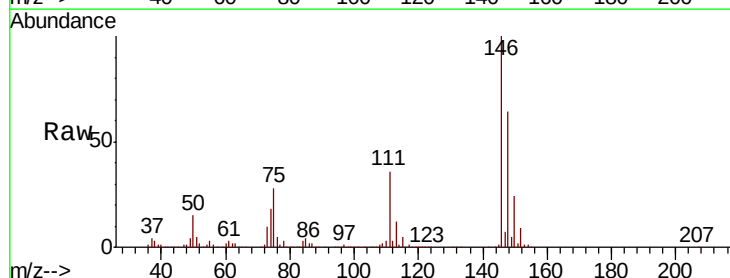
Manual Integrations
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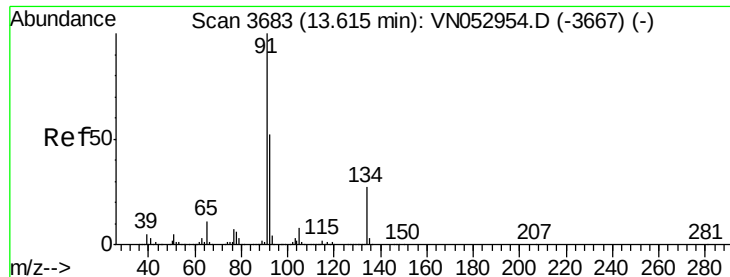
MMDadoda
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#88
 1,4-Dichlorobenzene
 Concen: 48.647 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN052997.D
 Acq: 19 Dec 2018 8:55

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.6	18.6	55.8
148	64.3	32.1	96.5





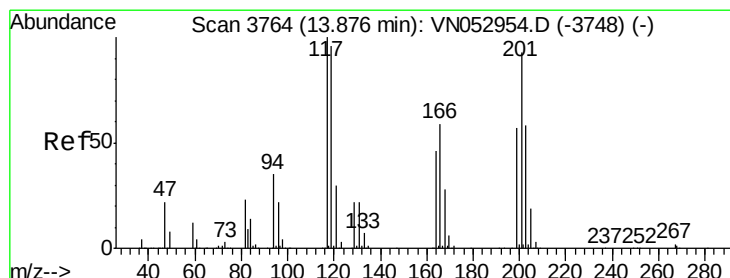
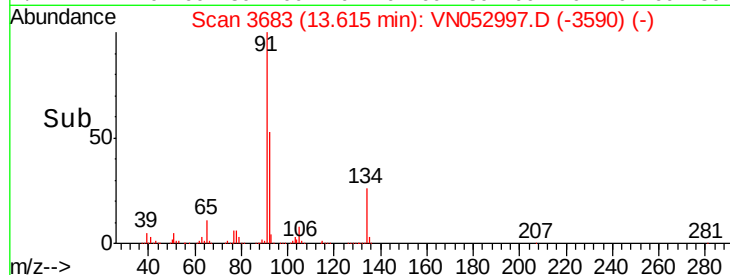
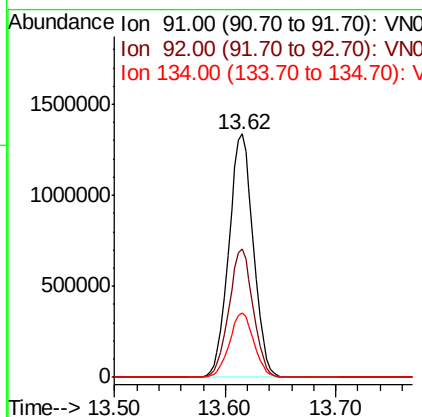
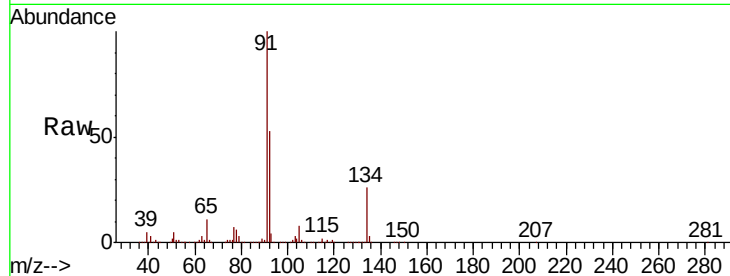
#89
n-Butylbenzene
Concen: 49.755 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. -0.00 min
Lab File: VN052997.D
Acq: 19 Dec 2018 8:55

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 2052248
Ion Ratio Lower Upper
91 100
92 52.2 26.3 78.9
134 26.4 13.3 39.8

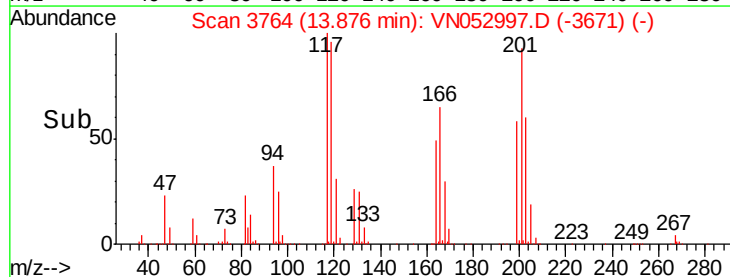
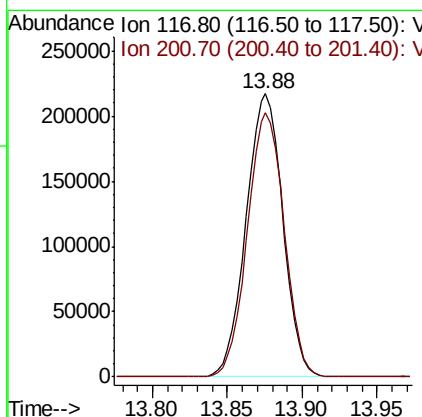
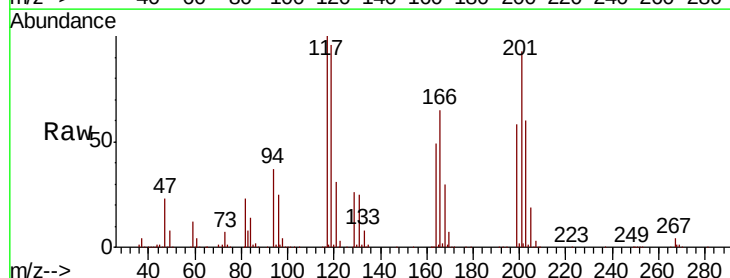
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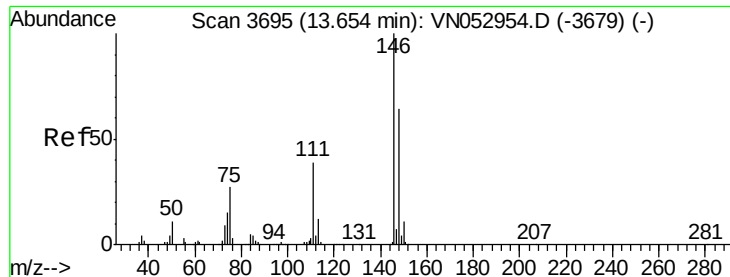
MMDadoda
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#90
Hexachloroethane
Concen: 50.326 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. -0.00 min
Lab File: VN052997.D
Acq: 19 Dec 2018 8:55

Tgt Ion: 117 Resp: 370268
Ion Ratio Lower Upper
117 100
201 93.6 45.7 137.1





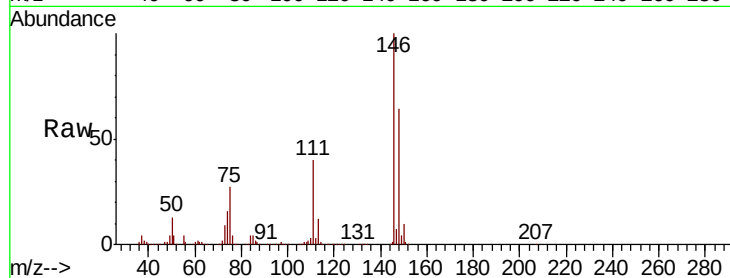
#91
 1,2-Dichlorobenzene
 Concen: 49.271 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. -0.00 min
 Lab File: VN052997.D
 Acq: 19 Dec 2018 8:55

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.3	19.7	59.0
148	63.9	32.0	96.0

Manual Integrations
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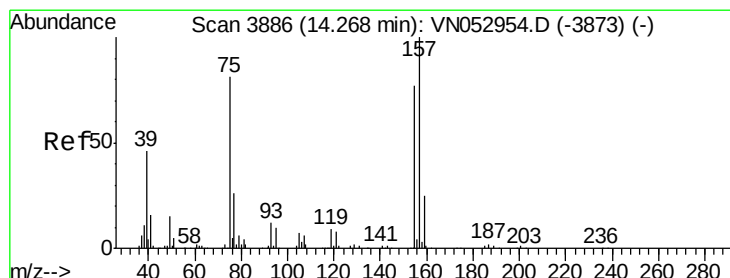
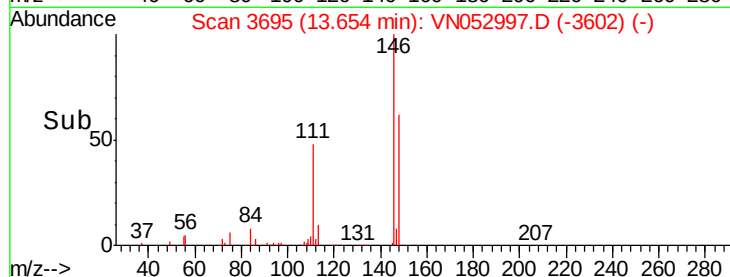
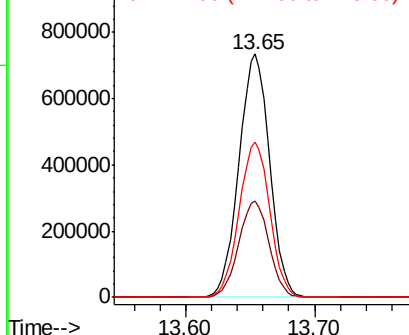


Abundance

Ion 145.90 (145.60 to 146.60): V

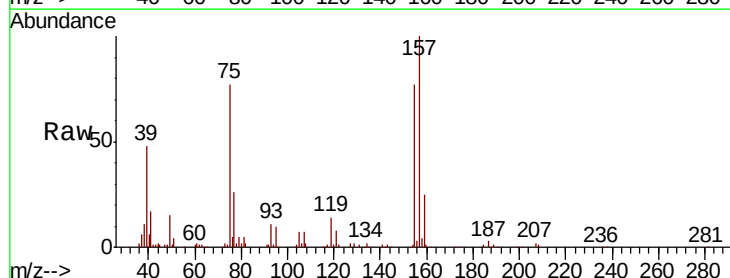
Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 45.699 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. 0.00 min
 Lab File: VN052997.D
 Acq: 19 Dec 2018 8:55

Tgt Ion	Ratio	Lower	Upper
75	100		
155	97.4	48.2	144.6
157	127.0	61.2	183.5

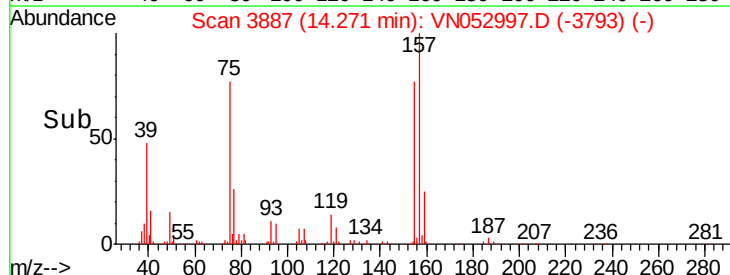
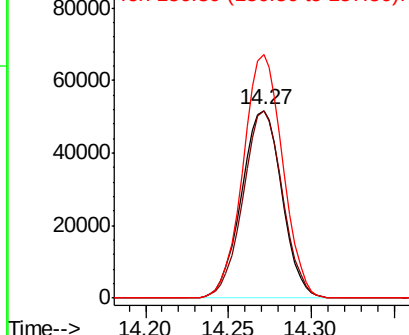


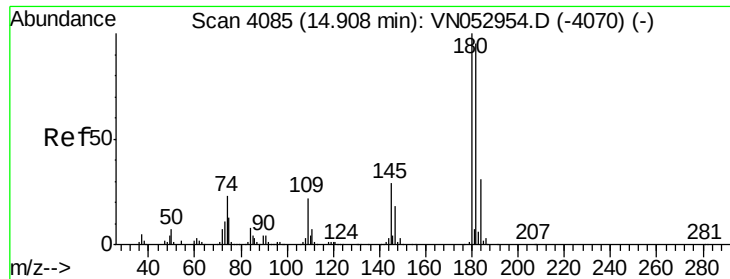
Abundance

Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





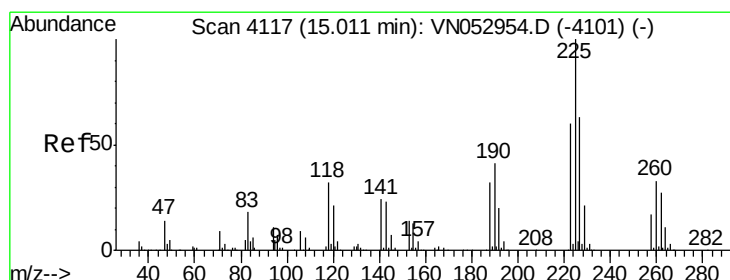
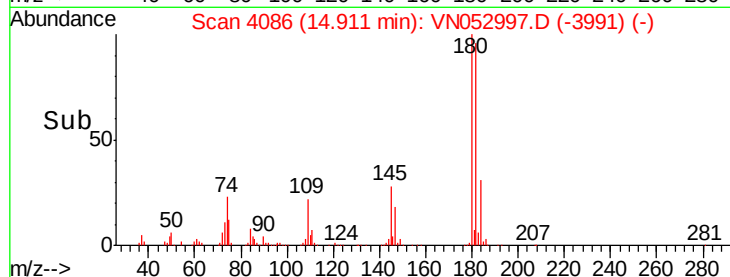
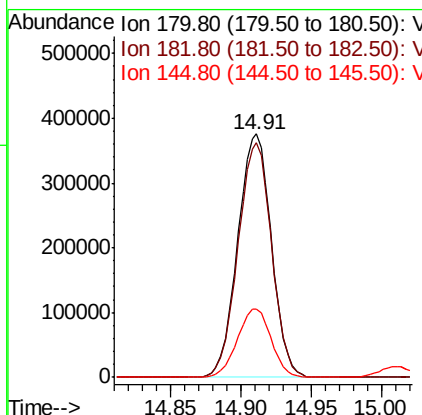
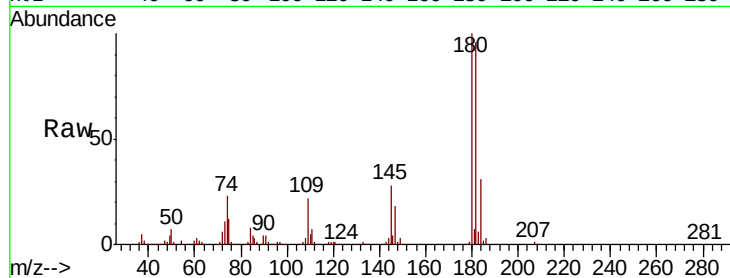
#93
 1,2,4-Trichlorobenzene
 Concen: 48.096 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN052997.D
 Acq: 19 Dec 2018 8:55

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
180	100	627556		
182	96.2	47.8	143.3	
145	28.3	14.2	42.6	

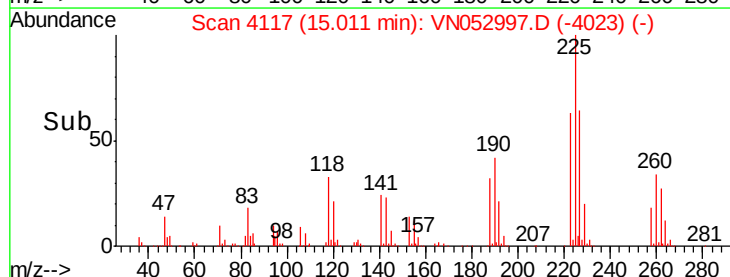
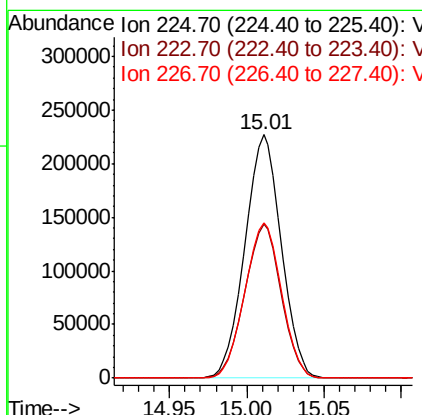
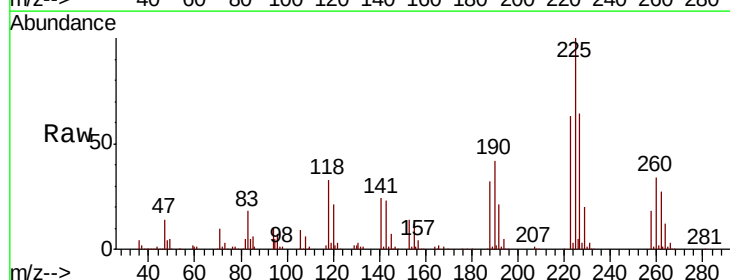
Manual Integrations
 APPROVED

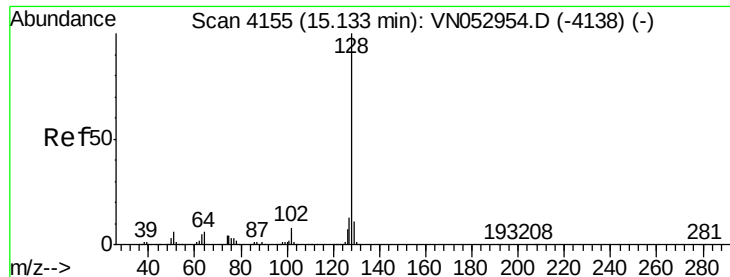
MMDadoda
 12/20/2018 9:34:12 AM



#94
 Hexachlorobutadiene
 Concen: 55.372 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN052997.D
 Acq: 19 Dec 2018 8:55

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	372179		
223	63.2	31.5	94.5	
227	64.3	31.9	95.7	





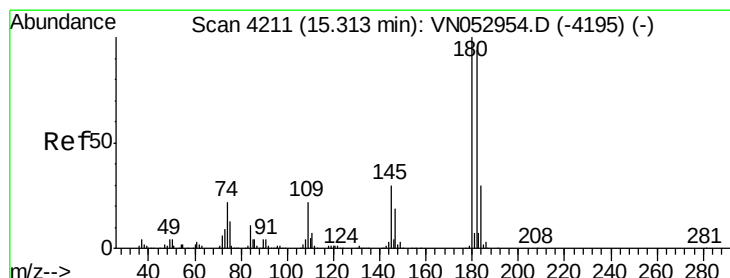
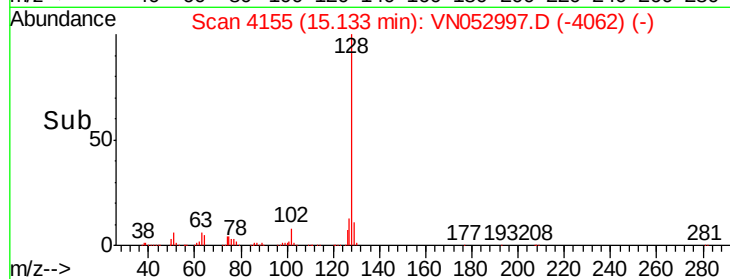
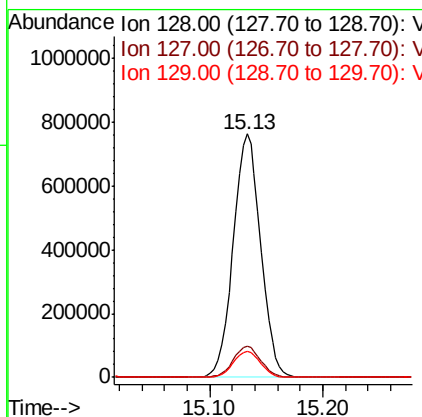
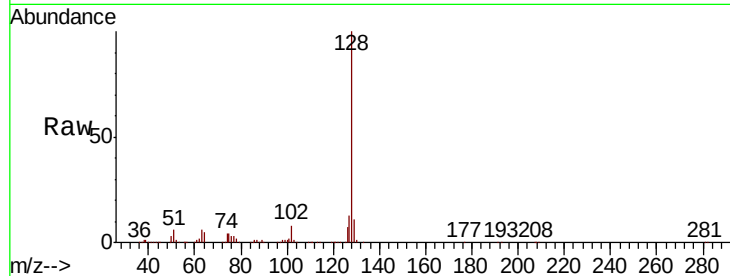
#95
Naphthalene
Concen: 45.115 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. -0.00 min
Lab File: VN052997.D
Acq: 19 Dec 2018 8:55

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.2	15.4
129	10.8	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
12/20/2018 9:34:12 AM



#96
1,2,3-Trichlorobenzene
Concen: 46.972 ug/l
RT: 15.32 min Scan# 4212
Delta R.T. 0.00 min
Lab File: VN052997.D
Acq: 19 Dec 2018 8:55

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.3	47.9	143.7
145	30.2	15.0	45.0

