

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121018\
 Data File : VN052789.D
 Acq On : 11 Dec 2018 8:31
 Operator : MD\SY
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 53 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Manual Integrations
 APPROVED

MMDadoda
 12/11/2018 12:47:10 PM

Quant Time: Dec 11 11:01:35 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N112718W.M
 Quant Title : SW846 8260
 QLast Update : Mon Dec 03 03:24:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	946896	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1475970	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1320994	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	644156	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	542721	52.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.28%	
35) Dibromofluoromethane	7.59	113	418241	45.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.92%	
50) Toluene-d8	10.09	98	1861110	52.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.08%	
62) 4-Bromofluorobenzene	12.40	95	661942	55.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.24%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	350934	39.582	ug/l	98
3) Chloromethane	2.06	50	466982	39.902	ug/l	99
4) Vinyl Chloride	2.19	62	494747	41.153	ug/l	99
5) Bromomethane	2.57	94	274565	36.603	ug/l	98
6) Chloroethane	2.71	64	311081	42.718	ug/l	98
7) Trichlorofluoromethane	3.02	101	662212	44.842	ug/l	98
8) Diethyl Ether	3.41	74	265789	48.738	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	3.76	101	425462	46.172	ug/l	99
10) Methyl Iodide	3.96	142	550957	44.892	ug/l	99
11) Tert butyl alcohol	4.77	59	141419	273.990	ug/l	99
12) 1,1-Dichloroethene	3.74	96	400450	45.147	ug/l	99
13) Acrolein	3.61	56	105631	117.752	ug/l	97
14) Allyl chloride	4.33	41	620815	40.610	ug/l	93
15) Acrylonitrile	4.99	53	820690	251.185	ug/l	99
16) Acetone	3.82	43	550029	202.264	ug/l	99
17) Carbon Disulfide	4.06	76	1030222	36.908	ug/l	100
18) Methyl Acetate	4.32	43	425242	54.516	ug/l	99
19) Methyl tert-butyl Ether	5.05	73	1208277	51.199	ug/l	100
20) Methylene Chloride	4.55	84	481971	45.291	ug/l	98
21) trans-1,2-Dichloroethene	5.05	96	432955	45.703	ug/l	95
22) Diisopropyl ether	5.95	45	1531905	47.706	ug/l	99
23) Vinyl Acetate	5.90	43	4439870	221.985	ug/l	99
24) 1,1-Dichloroethane	5.85	63	868075	47.346	ug/l	99
25) 2-Butanone	6.83	43	901191	233.808	ug/l	96
26) 2,2-Dichloropropane	6.82	77	440506	34.711	ug/l	97
27) cis-1,2-Dichloroethene	6.83	96	521772	47.283	ug/l	96
28) Bromochloromethane	7.20	49	414244	49.466	ug/l	94
29) Tetrahydrofuran	7.21	42	607740	244.458	ug/l	98
30) Chloroform	7.37	83	865767	47.329	ug/l	100
31) Cyclohexane	7.65	56	746629	42.015	ug/l	97
32) 1,1,1-Trichloroethane	7.57	97	711479	49.091	ug/l	98
36) 1,1-Dichloropropene	7.79	75	637492	45.738	ug/l	98
37) Ethyl Acetate	6.93	43	406723	47.815	ug/l	99
38) Carbon Tetrachloride	7.78	117	602333	47.738	ug/l	99

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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	734115	43.333	ug/l	98
40) Benzene	8.04	78	1960429	47.196	ug/l	100
41) Methacrylonitrile	7.17	41	242832	52.217	ug/l	95
42) 1,2-Dichloroethane	8.13	62	609462	48.458	ug/l	99
43) Isopropyl Acetate	8.16	43	795447	55.258	ug/l	97
44) Trichloroethene	8.84	130	528459	49.668	ug/l	99
45) 1,2-Dichloropropane	9.12	63	535808	48.519	ug/l	99
46) Dibromomethane	9.21	93	302433	49.470	ug/l	97
47) Bromodichloromethane	9.40	83	661197	49.745	ug/l	99
48) Methyl methacrylate	9.20	41	379593	50.572	ug/l	98
49) 1,4-Dioxane	9.20	88	83579	1072.903	ug/l	98
51) 4-Methyl-2-Pentanone	9.99	43	2096359	259.557	ug/l	99
52) Toluene	10.16	92	1206582	48.890	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	626543	48.999	ug/l	100
54) cis-1,3-Dichloropropene	9.84	75	732852	47.826	ug/l	97
55) 1,1,2-Trichloroethane	10.56	97	447660	51.567	ug/l	99
56) Ethyl methacrylate	10.43	69	592872	49.226	ug/l	98
57) 1,3-Dichloropropane	10.71	76	764342	49.865	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.70	63	1673539	265.674	ug/l	98
59) 2-Hexanone	10.75	43	1414178	260.885	ug/l	98
60) Dibromochloromethane	10.90	129	495884	52.594	ug/l	99
61) 1,2-Dibromoethane	11.01	107	436587	50.635	ug/l	100
64) Tetrachloroethene	10.63	164	578605	56.493	ug/l	98
65) Chlorobenzene	11.43	112	1342743	49.295	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	486655	51.383	ug/l	100
67) Ethyl Benzene	11.51	91	2341048	49.079	ug/l	100
68) m/p-Xylenes	11.62	106	1760509	99.142	ug/l	99
69) o-Xylene	11.95	106	866867	50.270	ug/l	99
70) Styrene	11.96	104	1441398	52.480	ug/l	99
71) Bromoform	12.13	173	334645	53.364	ug/l #	99
73) Isopropylbenzene	12.25	105	2323922	45.984	ug/l	99
74) N-amyl acetate	12.07	43	667190	52.255	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.51	83	518239	45.079	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	425044m	42.790	ug/l	
77) Bromobenzene	12.53	156	595539	47.675	ug/l	97
78) n-propylbenzene	12.59	91	2653965	46.226	ug/l	99
79) 2-Chlorotoluene	12.68	91	1557986	45.569	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	1882378	46.702	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	131691	44.274	ug/l	98
82) 4-Chlorotoluene	12.77	91	1612723	46.803	ug/l	99
83) tert-Butylbenzene	12.99	119	1670721	46.496	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	1921891	47.579	ug/l	100
85) sec-Butylbenzene	13.17	105	2259428	46.166	ug/l	99
86) p-Isopropyltoluene	13.29	119	1963771	47.109	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	1057910	48.416	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	1042467	48.435	ug/l	100
89) n-Butylbenzene	13.62	91	1664679	48.018	ug/l	100
90) Hexachloroethane	13.88	117	324541	45.980	ug/l	95
91) 1,2-Dichlorobenzene	13.65	146	1021264	48.921	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	82022	49.885	ug/l	95

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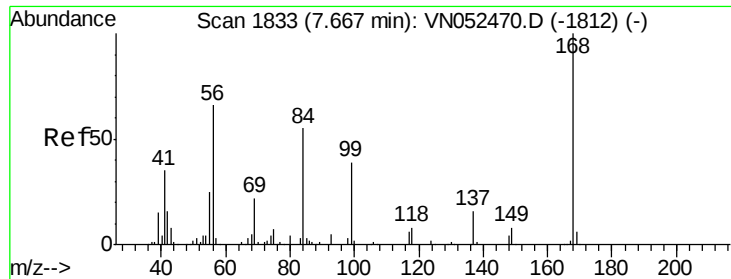
Manual Integrations
APPROVED

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	568237	49.706	ug/l	100
94) Hexachlorobutadiene	15.01	225	303706	45.222	ug/l	99
95) Naphthalene	15.13	128	1207666	49.810	ug/l	100
96) 1,2,3-Trichlorobenzene	15.32	180	524316	49.873	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN052789.D

Acq: 11 Dec 2018 8:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion:168 Resp: 946896

Ion Ratio Lower Upper

168 100

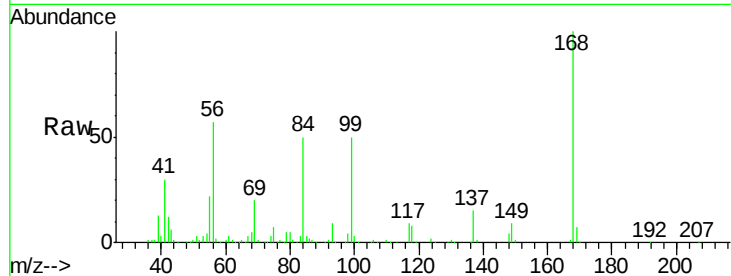
99 50.1 41.7 62.5

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

400000

300000

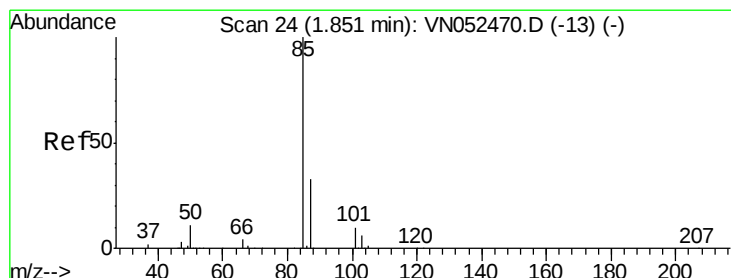
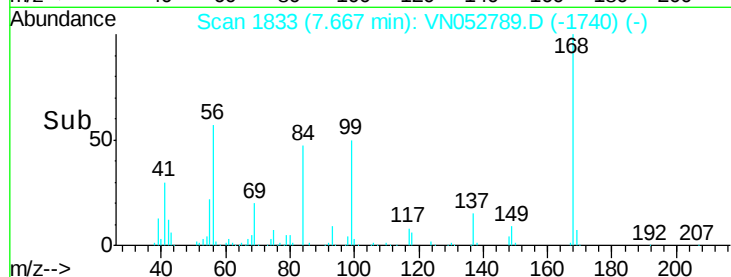
200000

100000

0

7.60 7.70

Time-->



#2

Dichlorodifluoromethane

Concen: 39.582 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN052789.D

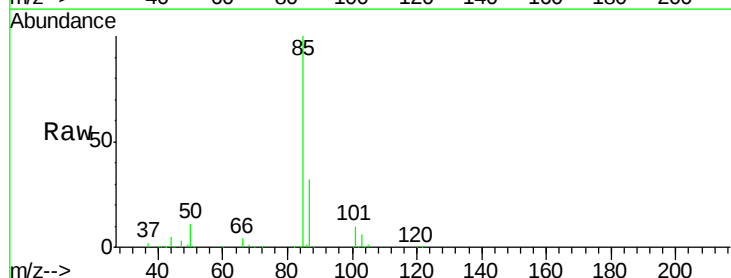
Acq: 11 Dec 2018 8:31

Tgt Ion: 85 Resp: 350934

Ion Ratio Lower Upper

85 100

87 32.5 16.7 50.1



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.85

300000

250000

200000

150000

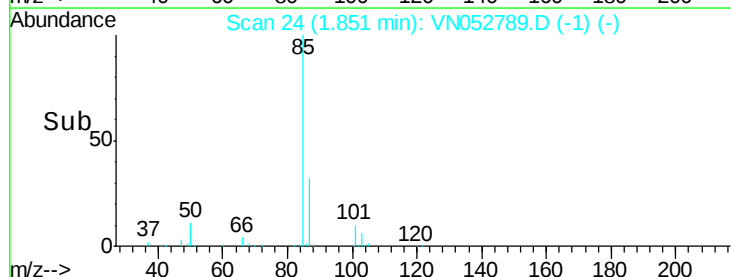
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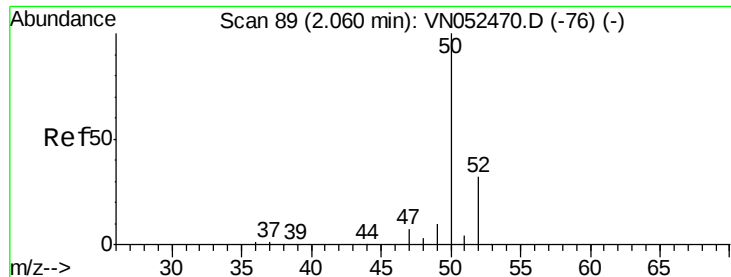
50000

0

1.80 1.90

Time-->





#3

Chloromethane

Concen: 39.902 ug/l

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN052789.D

Acq: 11 Dec 2018 8:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 50 Resp: 466982

Ion Ratio Lower Upper

50 100

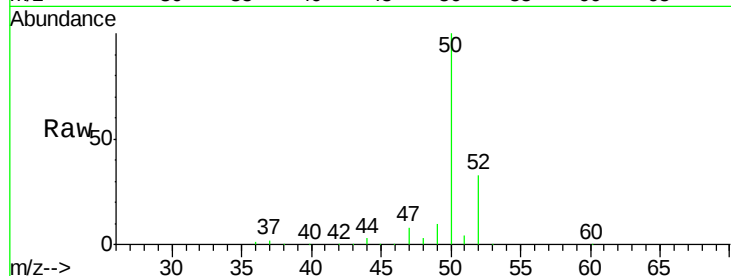
52 33.2 25.9 38.9

Manual Integrations

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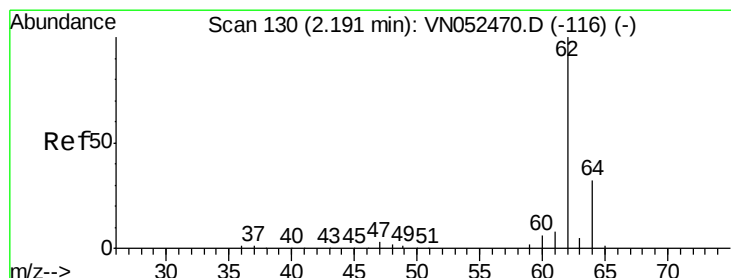
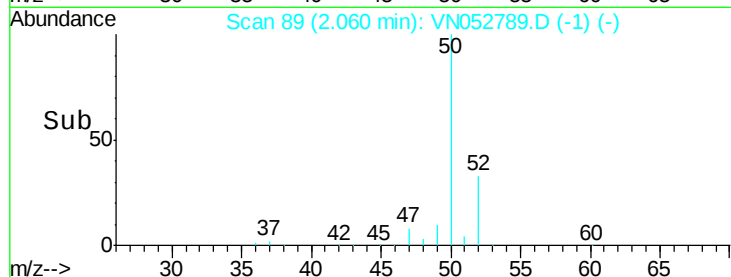
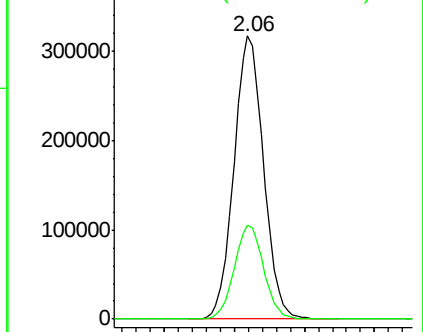
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Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO



#4

Vinyl Chloride

Concen: 41.153 ug/l

RT: 2.19 min Scan# 130

Delta R.T. 0.00 min

Lab File: VN052789.D

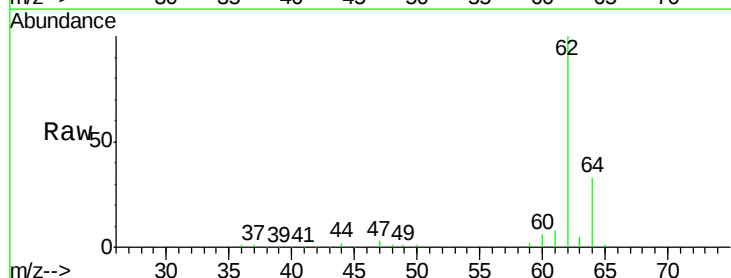
Acq: 11 Dec 2018 8:31

Tgt Ion: 62 Resp: 494747

Ion Ratio Lower Upper

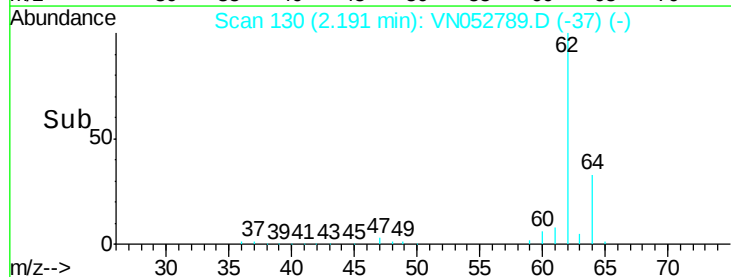
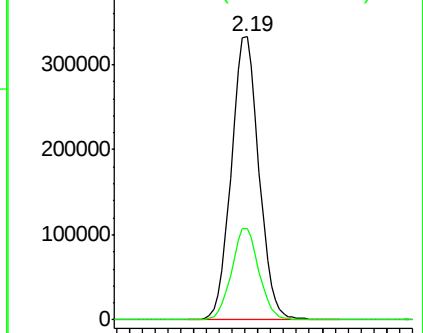
62 100

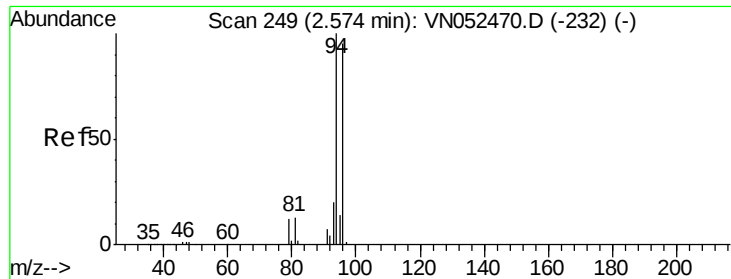
64 32.5 25.4 38.2



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO





#5

Bromomethane

Concen: 36.603 ug/l

RT: 2.57 min Scan# 248

Delta R.T. -0.00 min

Lab File: VN052789.D

Acq: 11 Dec 2018 8:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 94 Resp: 274565

Ion Ratio Lower Upper

94 100

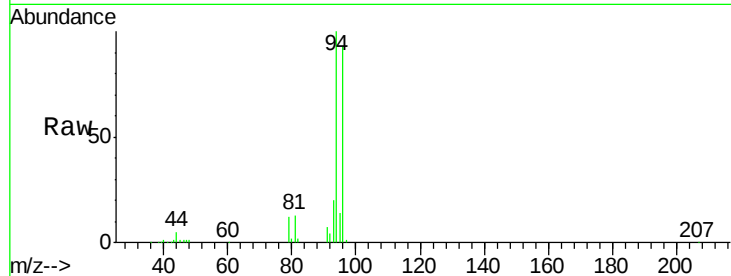
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Manual Integrations

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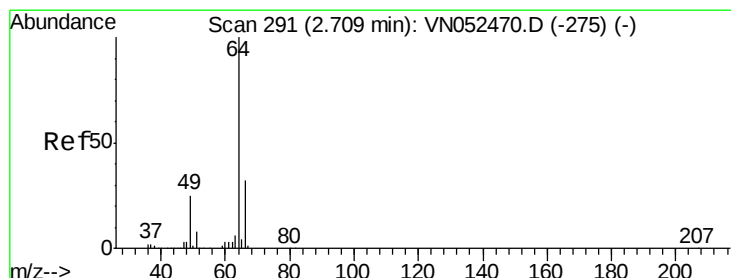
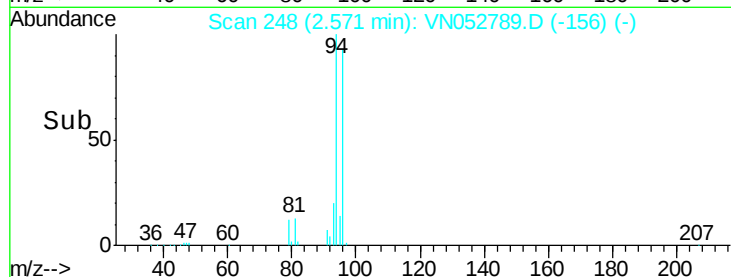
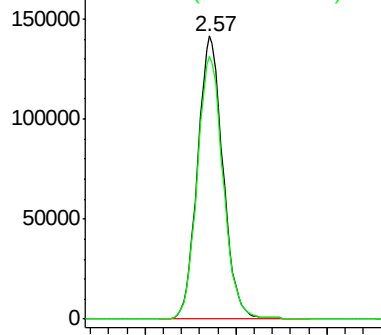
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Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO



#6

Chloroethane

Concen: 42.718 ug/l

RT: 2.71 min Scan# 291

Delta R.T. 0.00 min

Lab File: VN052789.D

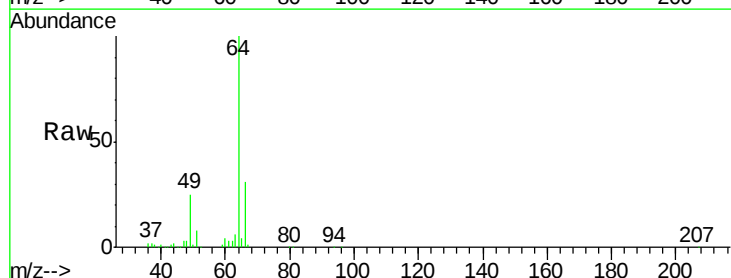
Acq: 11 Dec 2018 8:31

Tgt Ion: 64 Resp: 311081

Ion Ratio Lower Upper

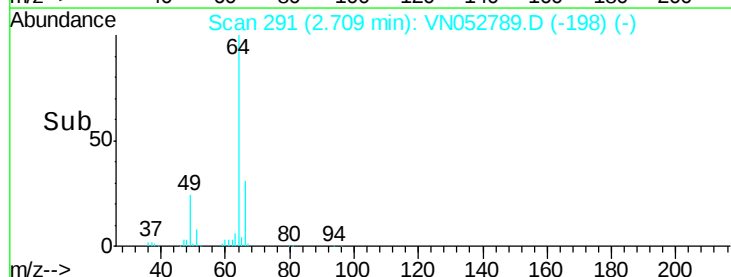
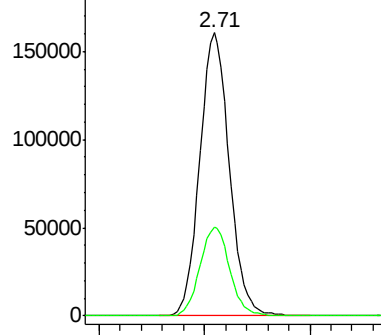
64 100

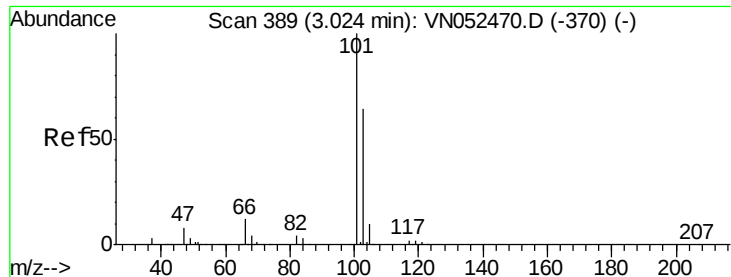
66 31.2 25.7 38.5



Abundance Ion 63.90 (63.60 to 64.60): VNO

Ion 65.90 (65.60 to 66.60): VNO





#7

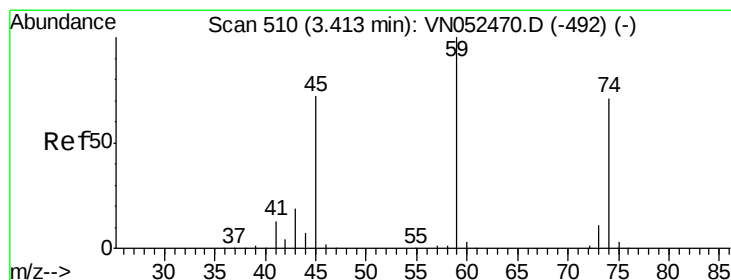
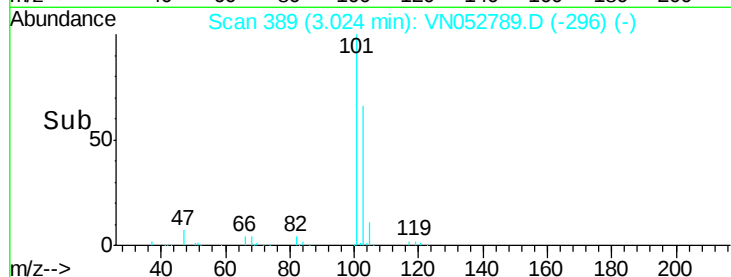
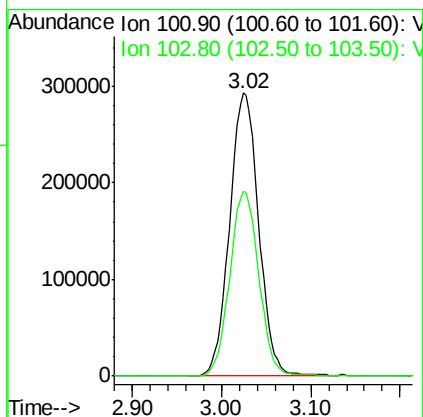
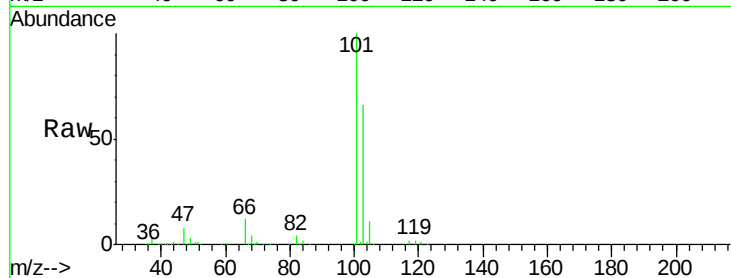
Trichlorofluoromethane
Concen: 44.842 ug/l
RT: 3.02 min Scan# 389
Delta R.T. 0.00 min
Lab File: VN052789.D
Acq: 11 Dec 2018 8:31

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VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
101	100		
103	65.5	51.4	77.2

Manual Integrations
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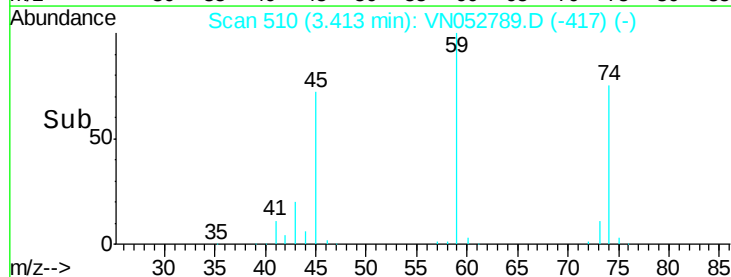
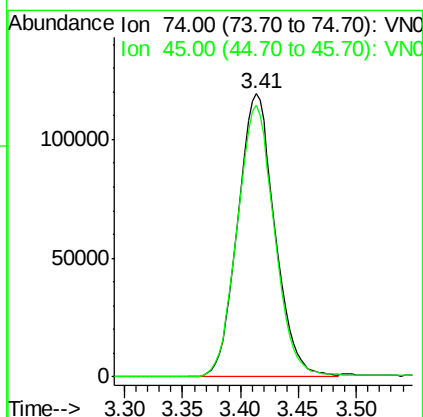
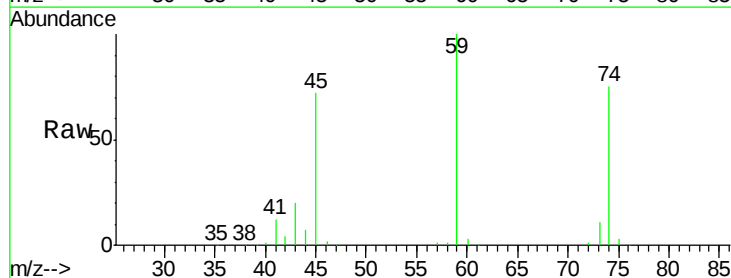
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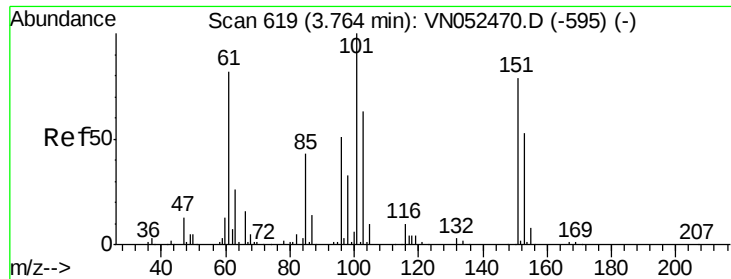


#8

Diethyl Ether
Concen: 48.738 ug/l
RT: 3.41 min Scan# 510
Delta R.T. 0.00 min
Lab File: VN052789.D
Acq: 11 Dec 2018 8:31

Tgt Ion	Ratio	Lower	Upper
74	100		
45	96.7	50.4	151.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 46.172 ug/l

RT: 3.76 min Scan# 619

Delta R.T. 0.00 min

Lab File: VN052789.D

Acq: 11 Dec 2018 8:31

Instrument :

MSVOA_N

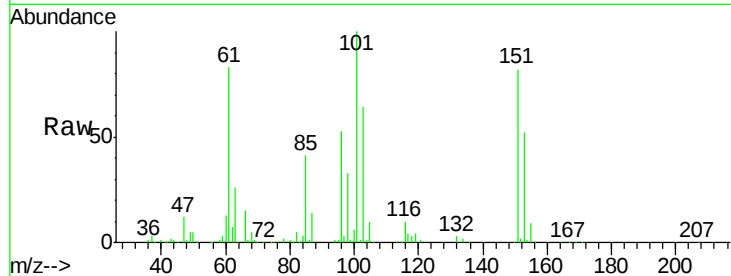
ClientSampleId :

VSTDCCC050EC

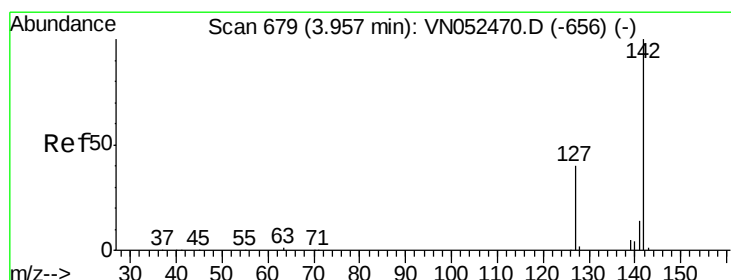
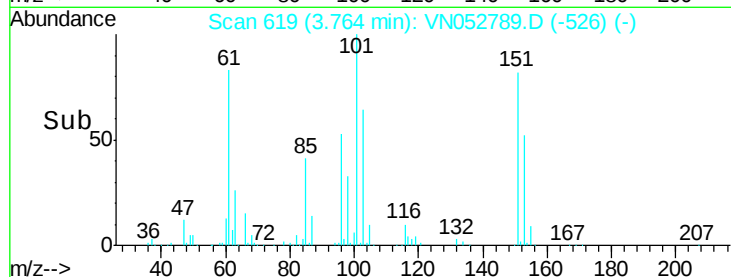
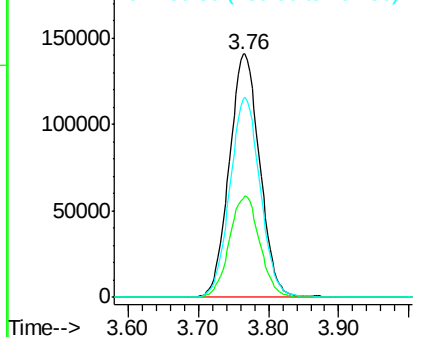
Tot Ion:	101	Resp:	425462
Ion Ratio	Lower	Upper	
101	100		
85	41.6	34.2	51.4
151	81.8	64.6	96.8

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Abundance Ion 100.90 (100.60 to 101.60): V
Ion 84.90 (84.60 to 85.60): V
Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 44.892 ug/l

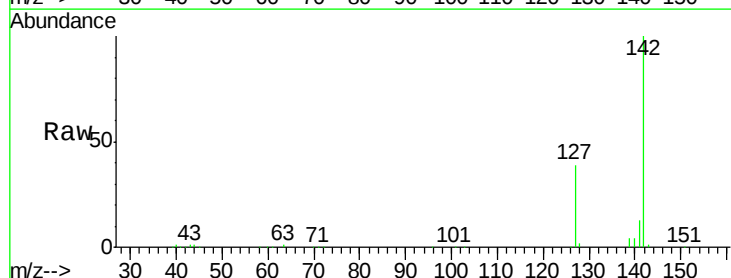
RT: 3.96 min Scan# 679

Delta R.T. 0.00 min

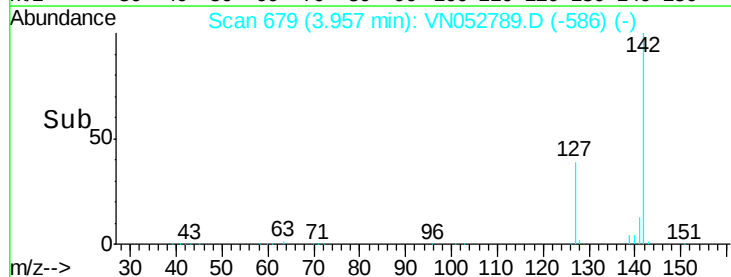
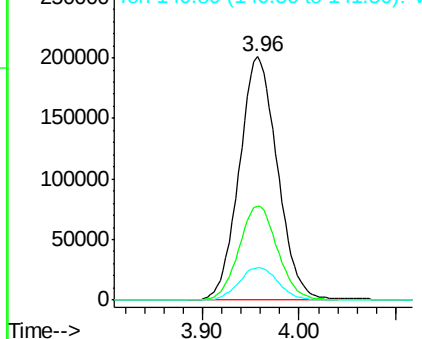
Lab File: VN052789.D

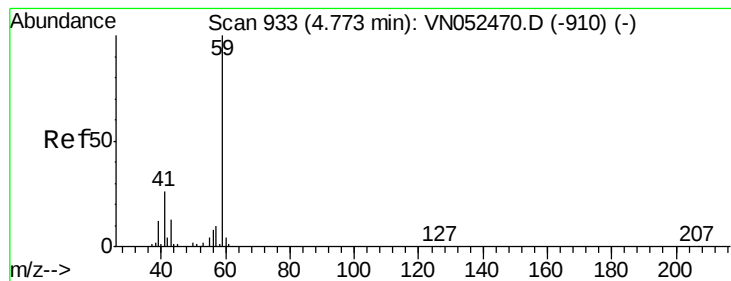
Acq: 11 Dec 2018 8:31

Tgt Ion:	142	Resp:	550957
Ion Ratio	Lower	Upper	
142	100		
127	39.4	31.8	47.6
141	13.8	11.4	17.0



Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V





#11

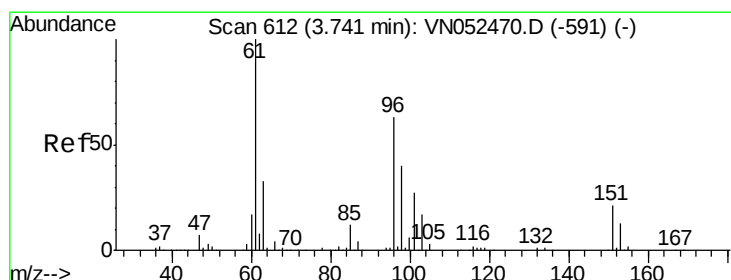
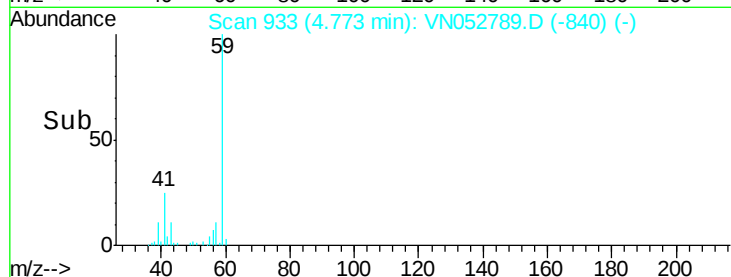
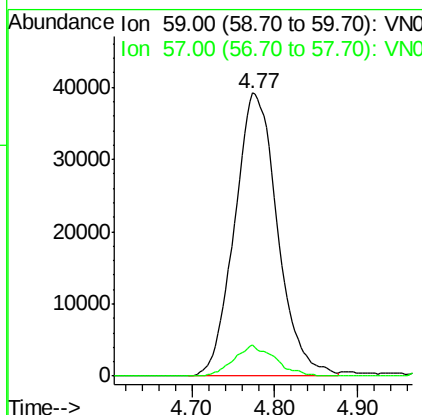
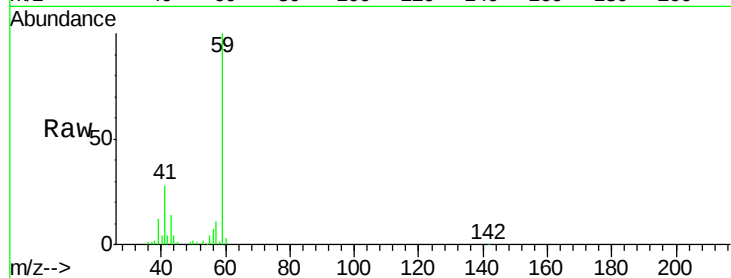
Tert butyl alcohol
Concen: 273.990 ug/l
RT: 4.77 min Scan# 933
Delta R.T. 0.00 min
Lab File: VN052789.D
Acq: 11 Dec 2018 8:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.3	7.9	11.9

Manual Integrations
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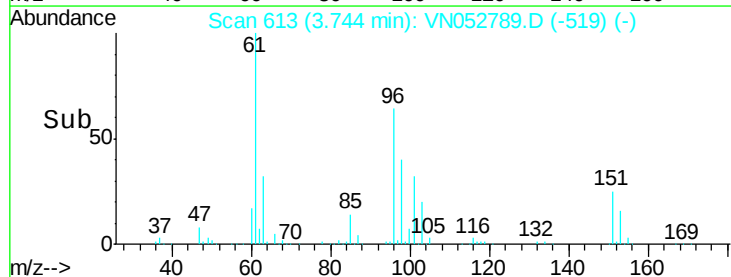
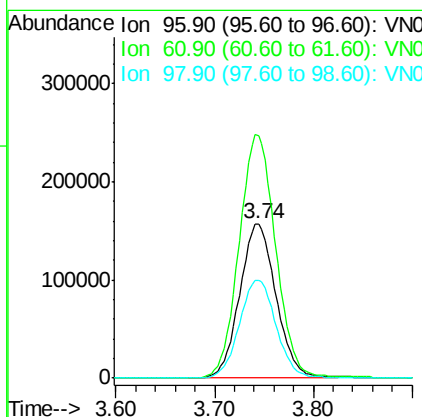
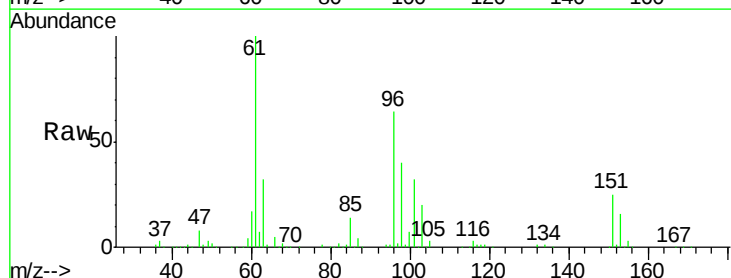
MMDadoda
12/11/2018 12:47:10 PM

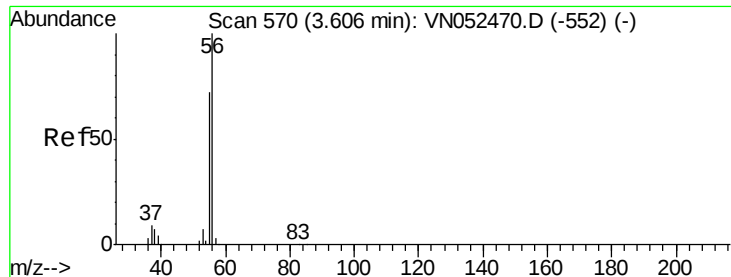


#12

1,1-Dichloroethene
Concen: 45.147 ug/l
RT: 3.74 min Scan# 613
Delta R.T. 0.00 min
Lab File: VN052789.D
Acq: 11 Dec 2018 8:31

Tgt Ion	Ratio	Lower	Upper
96	100		
61	157.1	127.0	190.6
98	63.5	50.3	75.5





#13

Acrolein

Concen: 117.752 ug/l

RT: 3.61 min Scan# 570

Delta R.T. 0.00 min

Lab File: VN052789.D

Acq: 11 Dec 2018 8:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 56 Resp: 105631

Ion Ratio Lower Upper

56 100

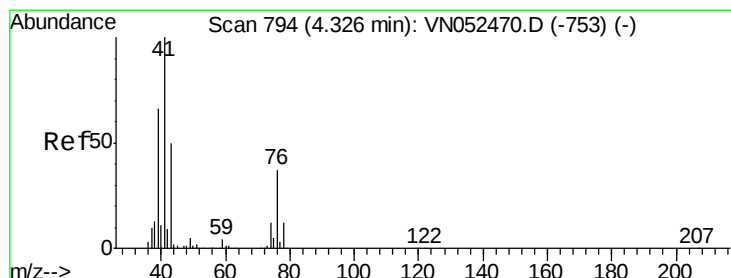
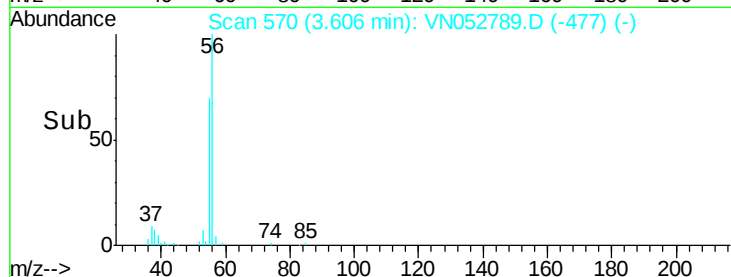
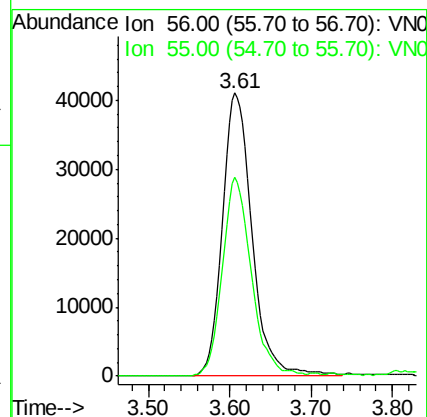
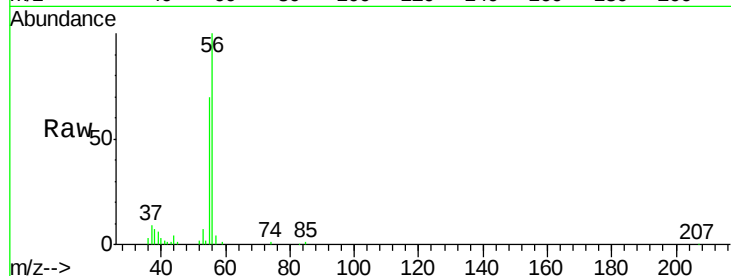
55 68.8 56.8 85.2

Manual Integrations

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#14

Allyl chloride

Concen: 40.610 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.00 min

Lab File: VN052789.D

Acq: 11 Dec 2018 8:31

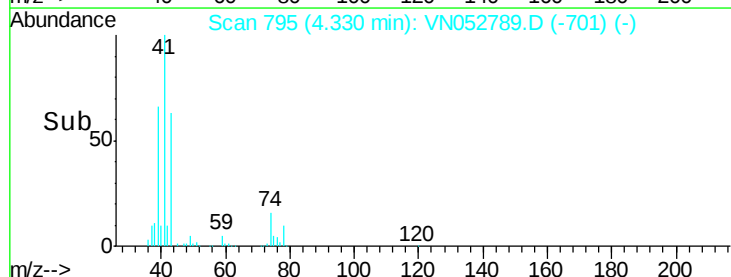
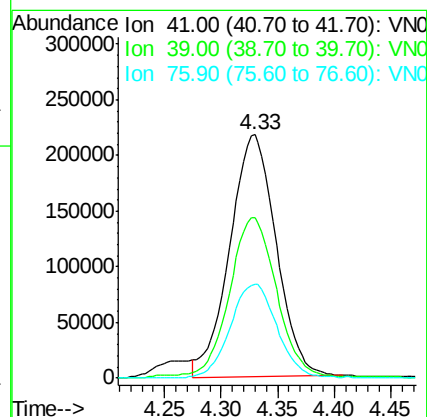
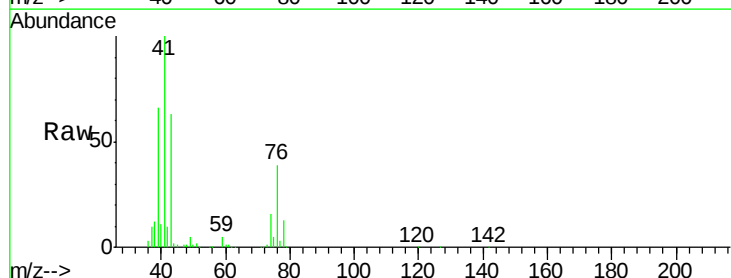
Tgt Ion: 41 Resp: 620815

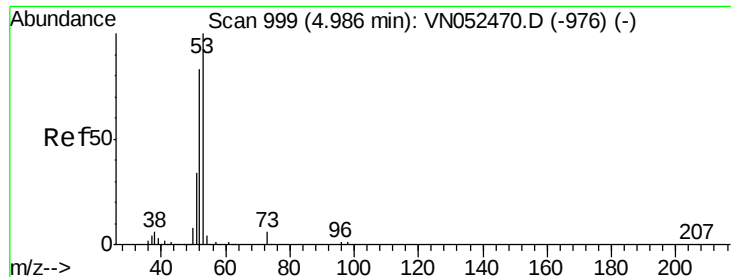
Ion Ratio Lower Upper

41 100

39 68.5 50.6 76.0

76 38.6 27.4 41.2





#15

Acrylonitrile

Concen: 251.185 ug/l

RT: 4.99 min Scan# 999

Delta R.T. 0.00 min

Lab File: VN052789.D

Acq: 11 Dec 2018 8:31

Instrument :

MSVOA_N

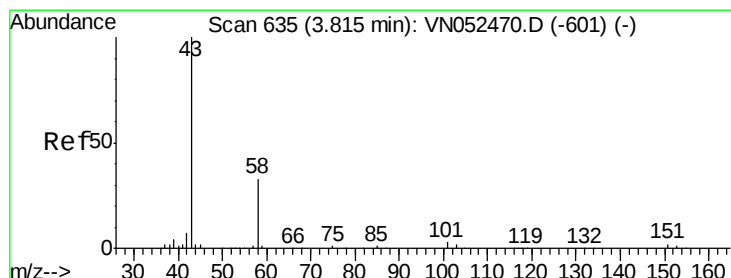
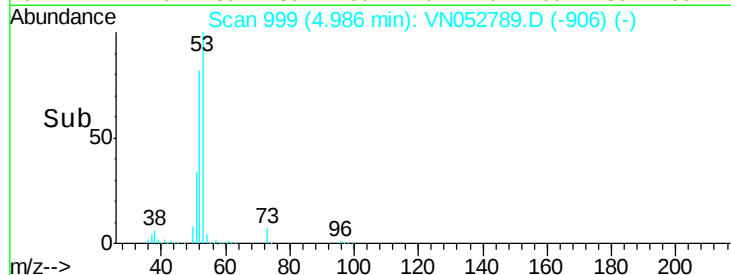
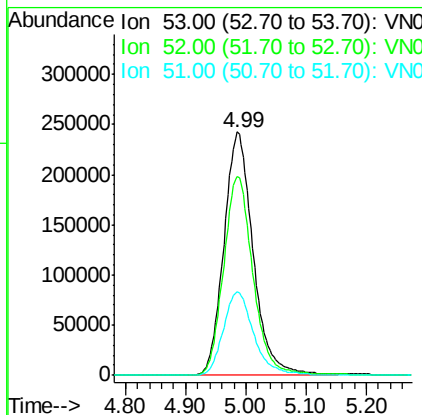
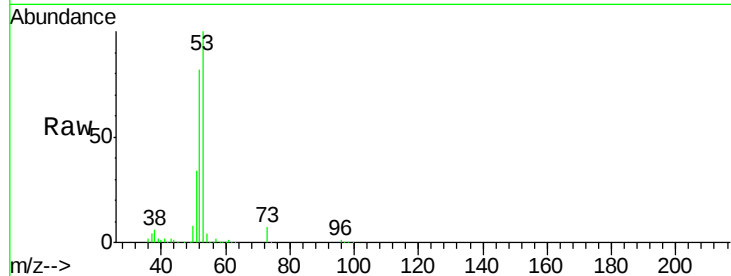
ClientSampleId :

VSTDCCC050EC

Tot Ion:	53	Resp:	820690
Ion Ratio		Lower	Upper
53	100		
52	81.5	66.2	99.2
51	35.7	28.1	42.1

Manual Integrations
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#16

Acetone

Concen: 202.264 ug/l

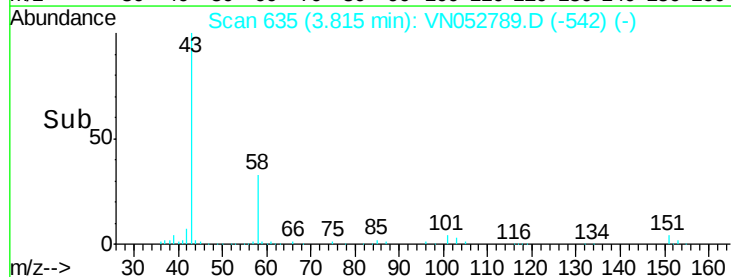
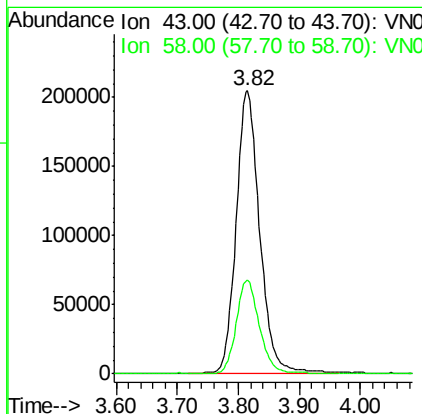
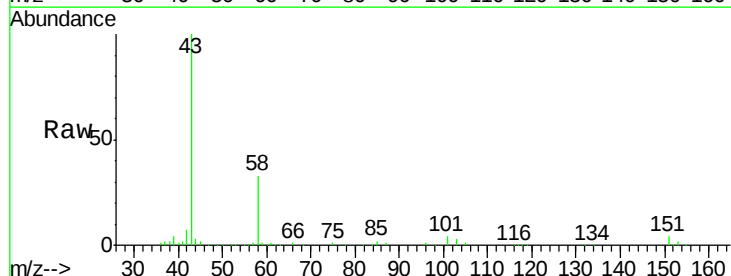
RT: 3.82 min Scan# 635

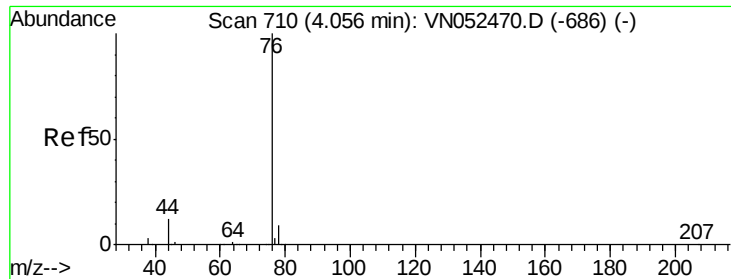
Delta R.T. 0.00 min

Lab File: VN052789.D

Acq: 11 Dec 2018 8:31

Tgt Ion:	43	Resp:	550029
Ion Ratio		Lower	Upper
43	100		
58	33.0	26.0	39.0





#17

Carbon Disulfide

Concen: 36.908 ug/l

RT: 4.06 min Scan# 711

Delta R.T. 0.00 min

Lab File: VN052789.D

Acq: 11 Dec 2018 8:31

Tot Ion: 76 Resp: 1030222

Ion Ratio Lower Upper

76 100

78 9.3 7.4 11.0

Instrument :

MSVOA_N

ClientSampleId :

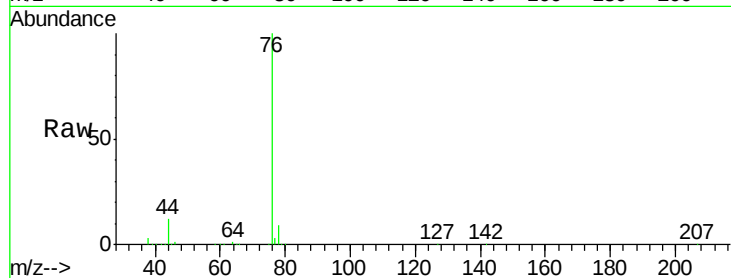
VSTDCCC050EC

Manual Integrations

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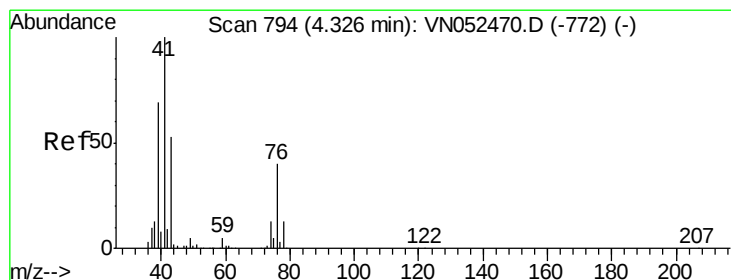
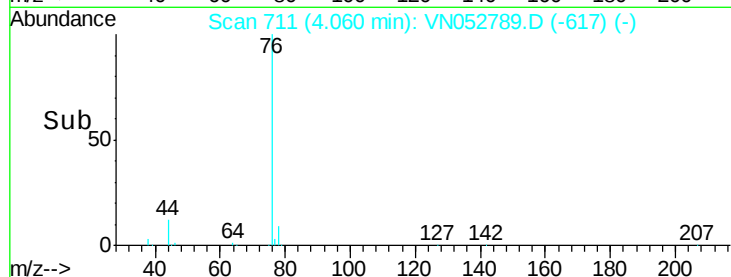
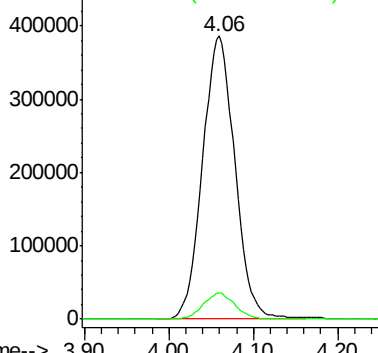
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Abundance Ion 75.90 (75.60 to 76.60): VNC

Ion 77.90 (77.60 to 78.60): VNC



#18

Methyl Acetate

Concen: 54.516 ug/l

RT: 4.32 min Scan# 793

Delta R.T. -0.00 min

Lab File: VN052789.D

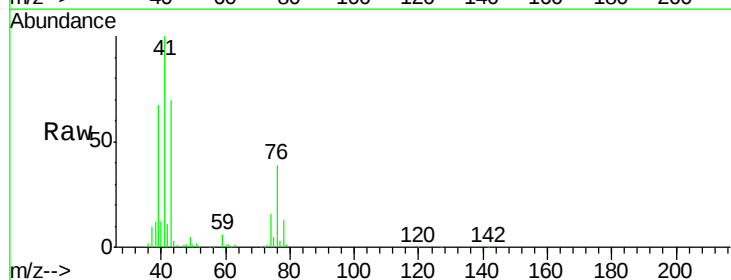
Acq: 11 Dec 2018 8:31

Tgt Ion: 43 Resp: 425242

Ion Ratio Lower Upper

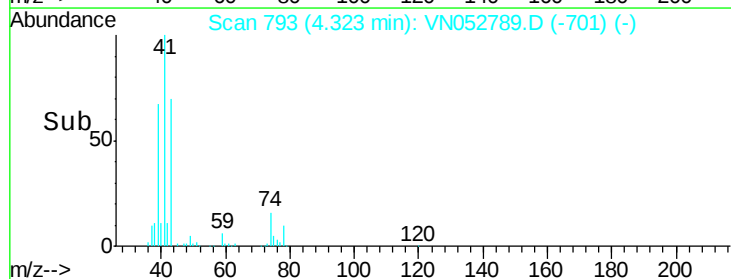
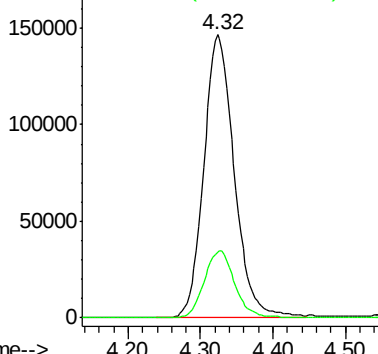
43 100

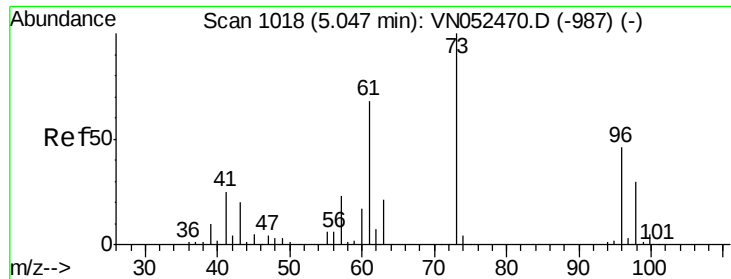
74 23.9 18.6 27.8



Abundance Ion 43.00 (42.70 to 43.70): VNC

Ion 74.00 (73.70 to 74.70): VNC





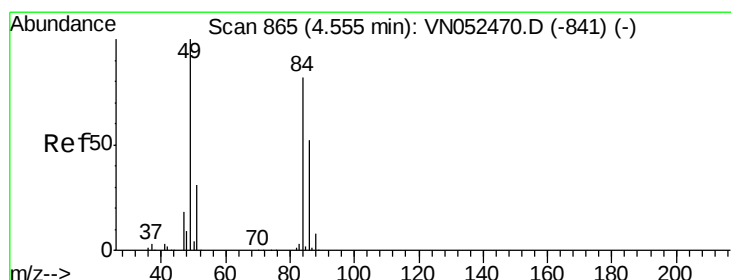
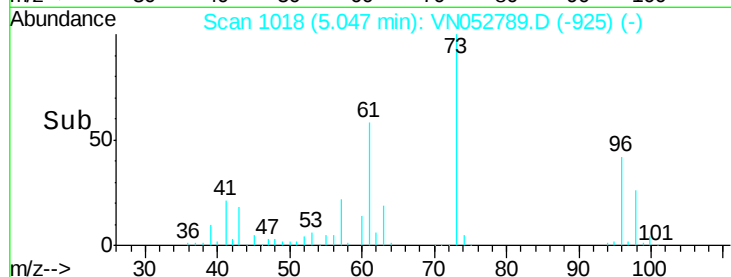
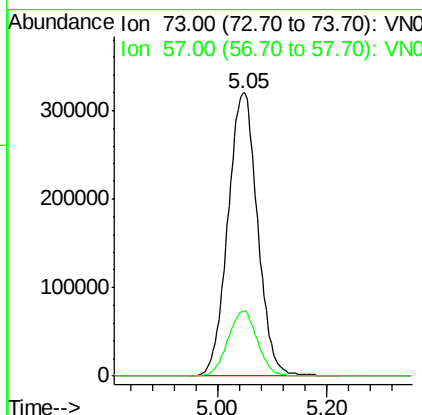
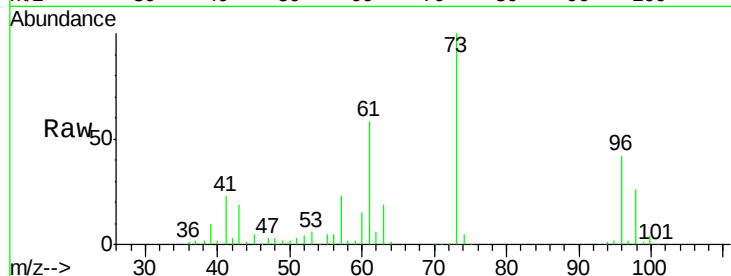
#19
Methyl tert-butyl Ether
Concen: 51.199 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VN052789.D
Acq: 11 Dec 2018 8:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion: 73 Resp: 1208277
Ion Ratio Lower Upper
73 100
57 22.9 18.2 27.2

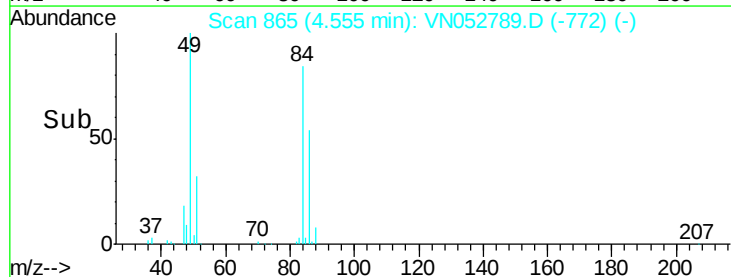
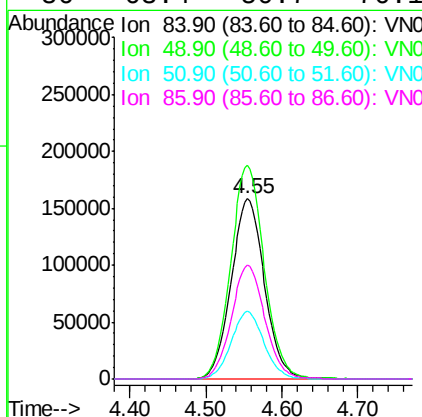
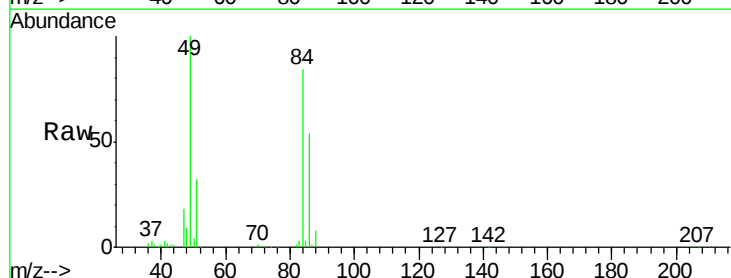
Manual Integrations
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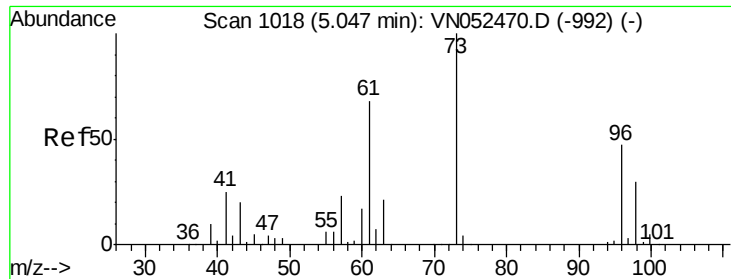
MMDadoda
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#20
Methylene Chloride
Concen: 45.291 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN052789.D
Acq: 11 Dec 2018 8:31

Tgt Ion: 84 Resp: 481971
Ion Ratio Lower Upper
84 100
49 118.5 98.0 147.0
51 37.7 30.1 45.1
86 63.4 50.7 76.1





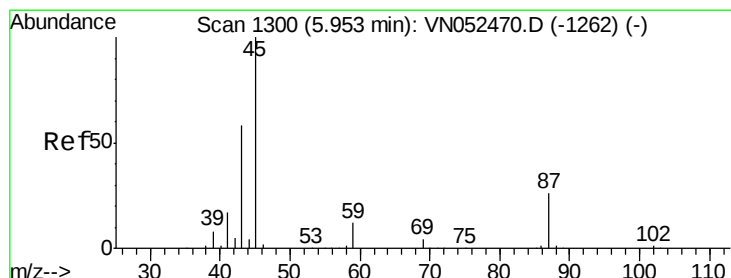
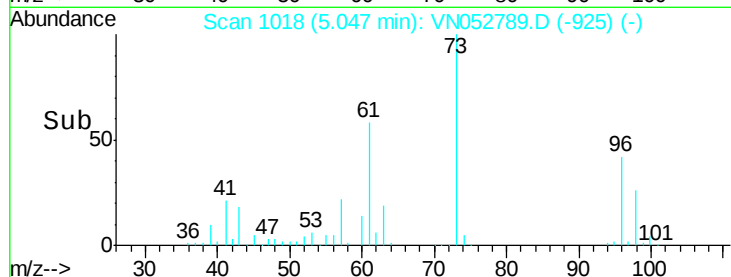
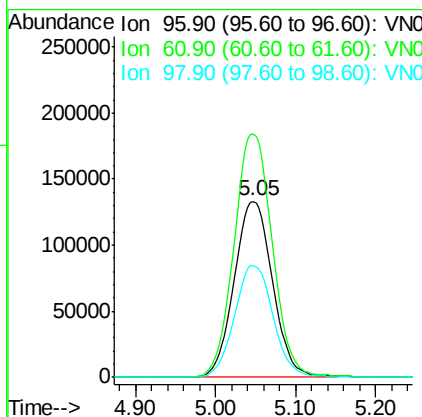
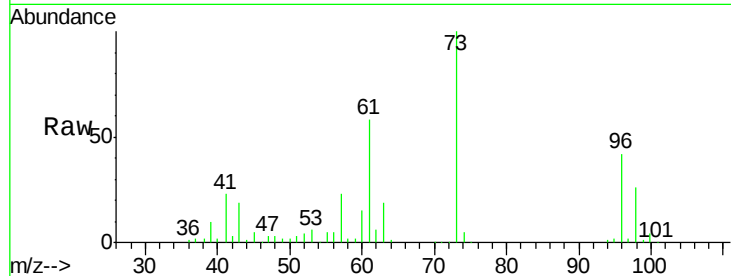
#21
trans-1,2-Dichloroethene
Concen: 45.703 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VN052789.D
Acq: 11 Dec 2018 8:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
96	100		
61	138.4	117.0	175.4
98	63.5	51.8	77.6

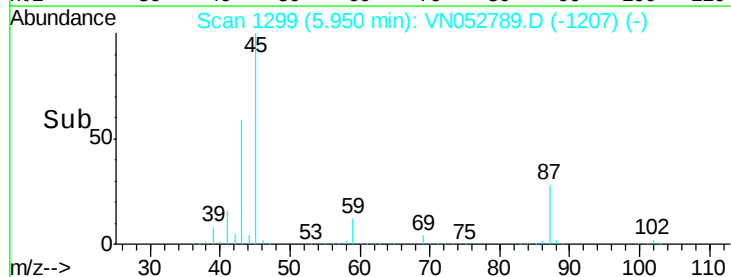
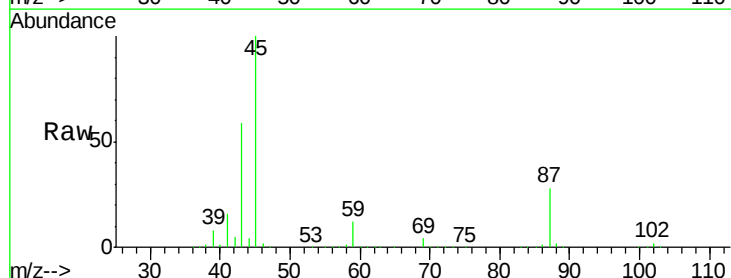
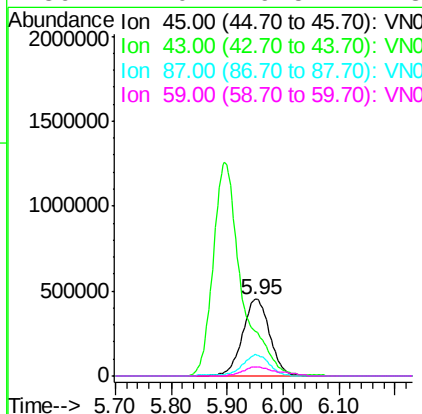
Manual Integrations
APPROVED

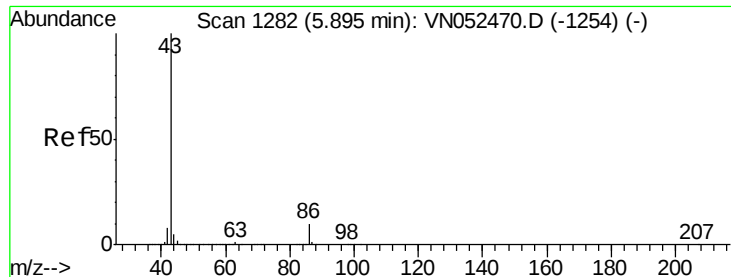
MMDadoda
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#22
Diisopropyl ether
Concen: 47.706 ug/l
RT: 5.95 min Scan# 1299
Delta R.T. -0.00 min
Lab File: VN052789.D
Acq: 11 Dec 2018 8:31

Tgt Ion	Ratio	Lower	Upper
45	100		
43	58.2	46.1	69.1
87	27.6	21.3	31.9
59	12.0	9.5	14.3





#23

Vinyl Acetate

Concen: 221.985 ug/l

RT: 5.90 min Scan# 1282

Delta R.T. 0.00 min

Lab File: VN052789.D

Acq: 11 Dec 2018 8:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 4439870

Ion Ratio Lower Upper

43 100

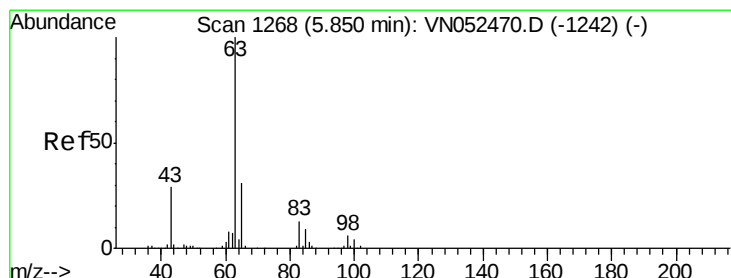
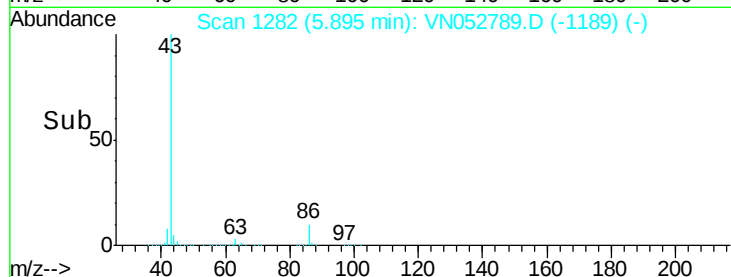
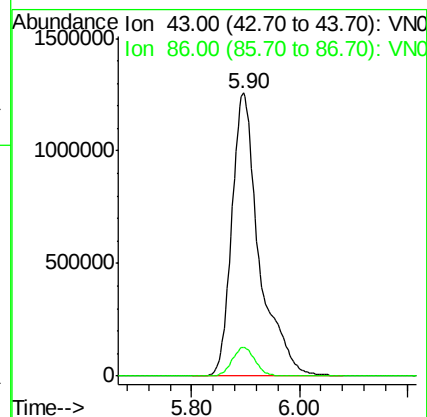
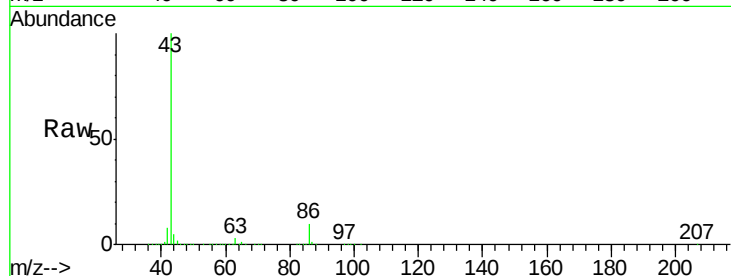
86 10.2 7.8 11.8

Manual Integrations

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12/11/2018 12:47:10 PM



#24

1,1-Dichloroethane

Concen: 47.346 ug/l

RT: 5.85 min Scan# 1268

Delta R.T. 0.00 min

Lab File: VN052789.D

Acq: 11 Dec 2018 8:31

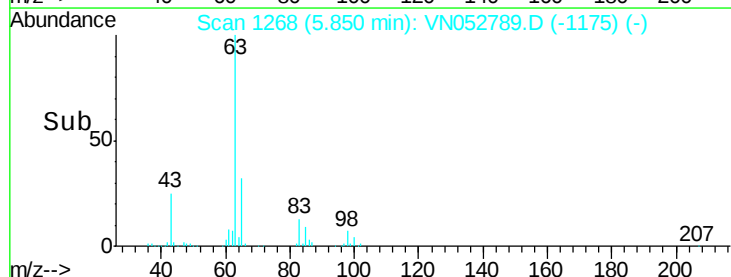
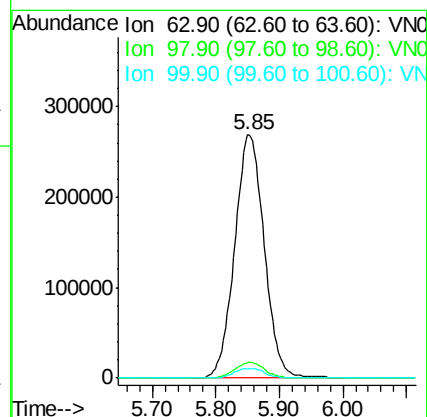
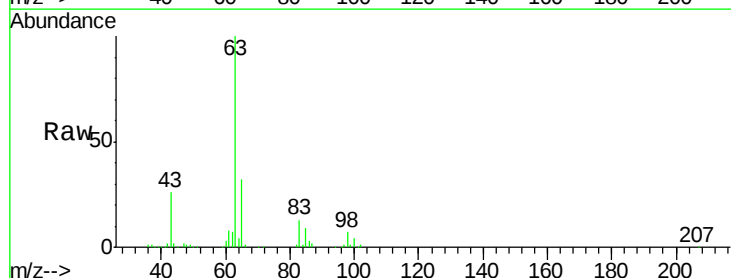
Tgt Ion: 63 Resp: 868075

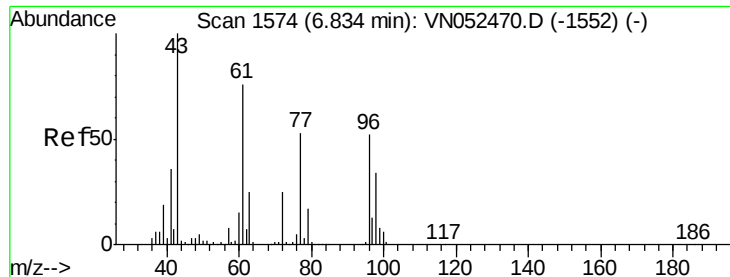
Ion Ratio Lower Upper

63 100

98 6.5 3.0 9.2

100 4.0 2.0 5.8





#25

2-Butanone

Concen: 233.808 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. 0.00 min

Lab File: VN052789.D

Acq: 11 Dec 2018 8:31

Tot Ion: 43 Resp: 901191

Ion Ratio Lower Upper

43 100

72 27.2 20.1 30.1

Instrument :

MSVOA_N

ClientSampleId :

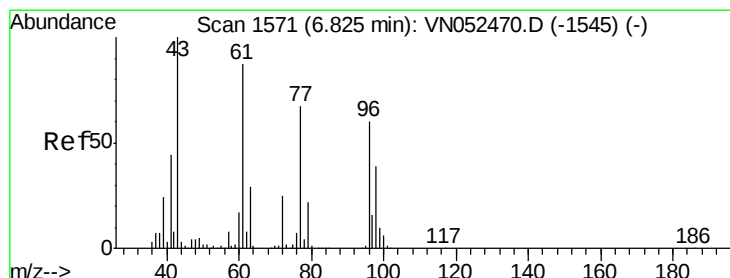
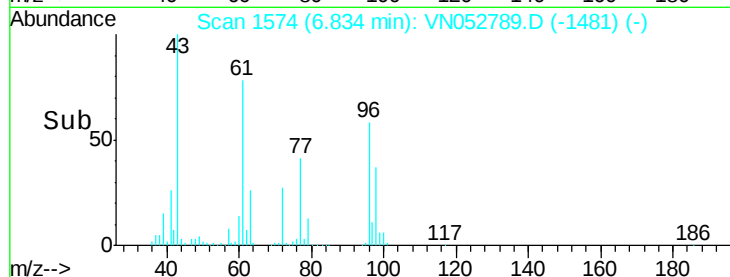
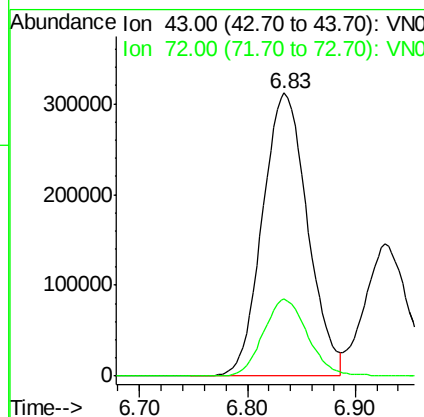
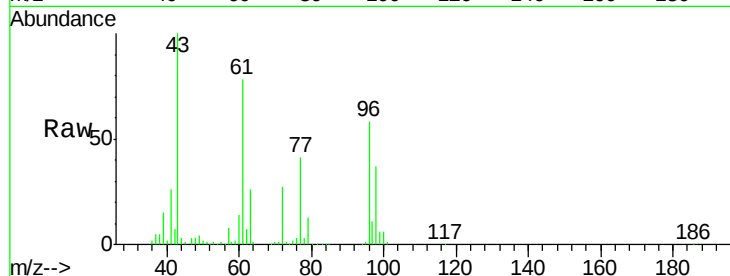
VSTDCCC050EC

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#26

2,2-Dichloropropane

Concen: 34.711 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. 0.00 min

Lab File: VN052789.D

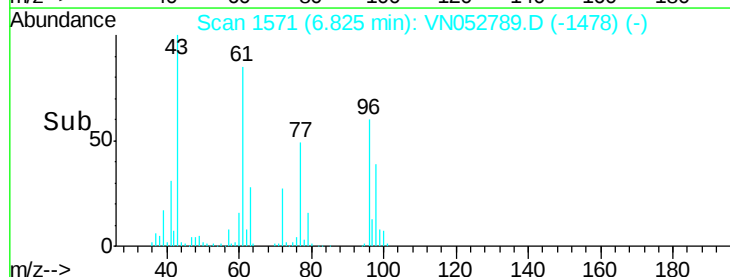
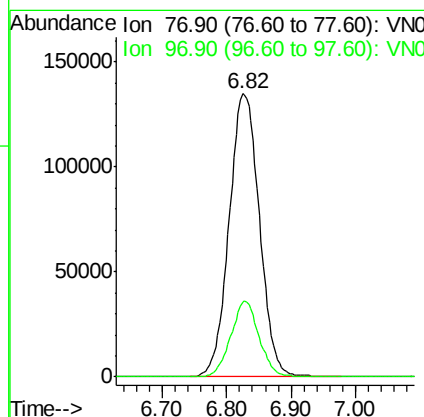
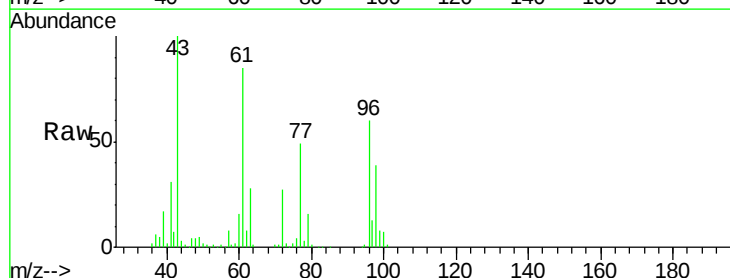
Acq: 11 Dec 2018 8:31

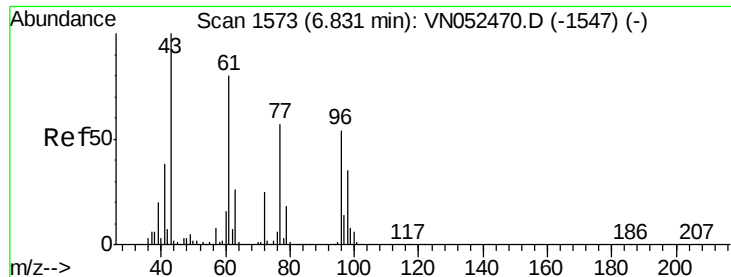
Tgt Ion: 77 Resp: 440506

Ion Ratio Lower Upper

77 100

97 25.0 11.8 35.3





#27

cis-1,2-Dichloroethene

Concen: 47.283 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. 0.00 min

Lab File: VN052789.D

Acq: 11 Dec 2018 8:31

Instrument :

MSVOA_N

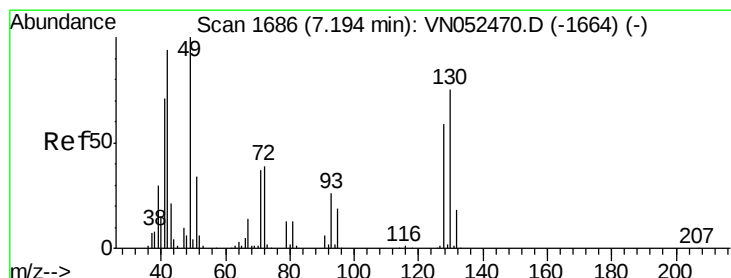
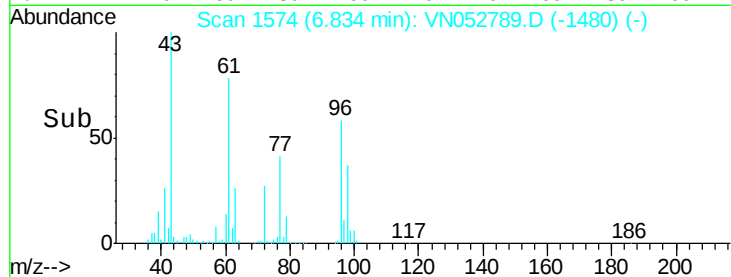
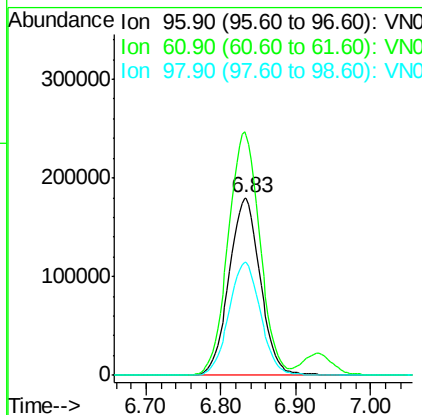
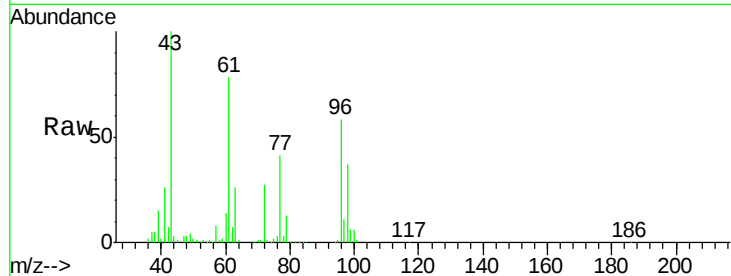
ClientSampleId :

VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
96	100	521772		
61	138.9	0.0	291.0	
98	64.6	0.0	130.0	

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#28

Bromochloromethane

Concen: 49.466 ug/l

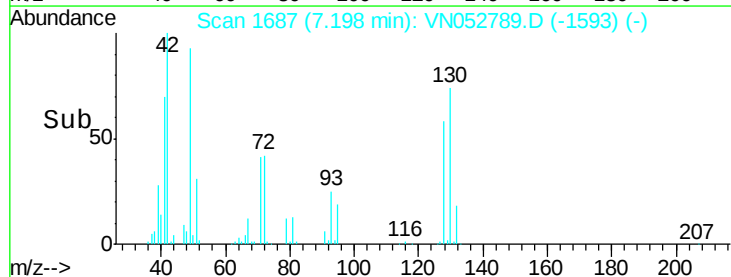
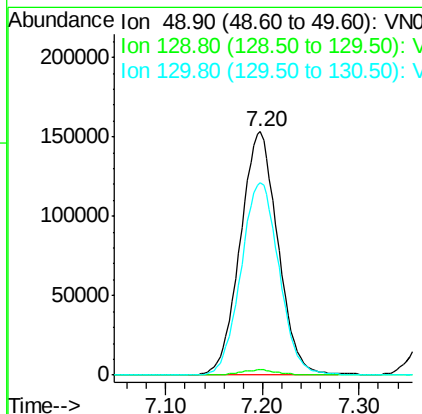
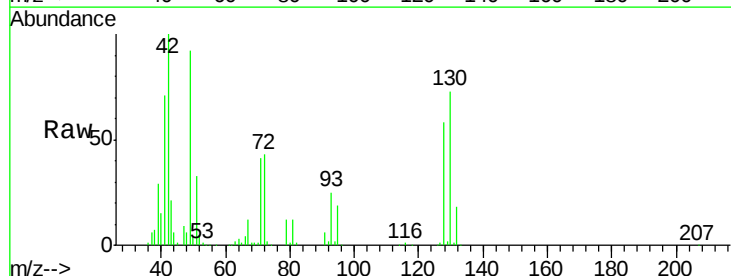
RT: 7.20 min Scan# 1687

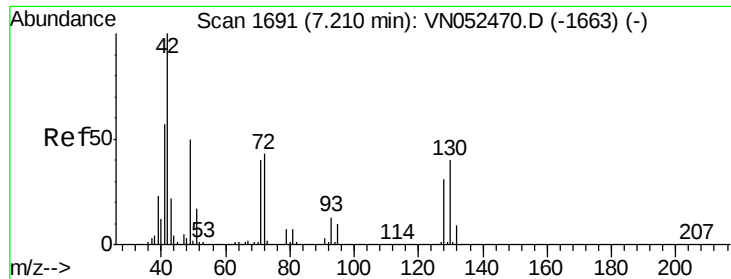
Delta R.T. 0.00 min

Lab File: VN052789.D

Acq: 11 Dec 2018 8:31

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	414244		
129	2.1	0.0	3.8	
130	80.2	60.2	90.2	





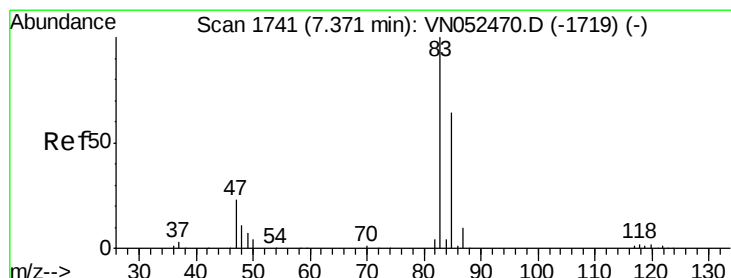
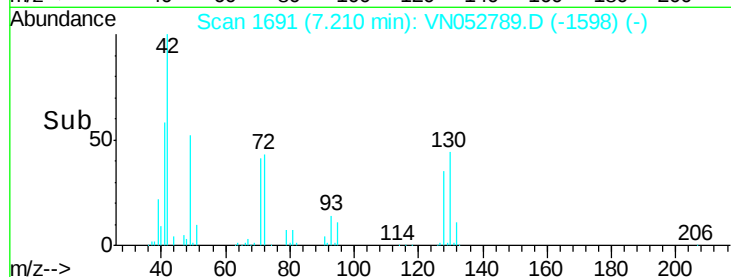
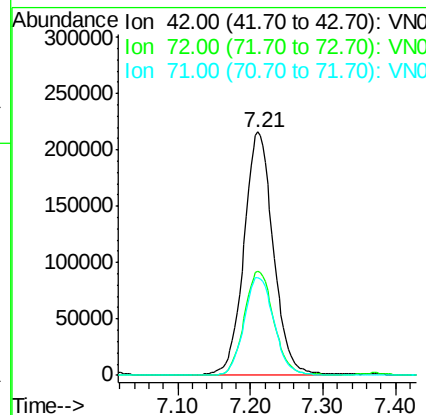
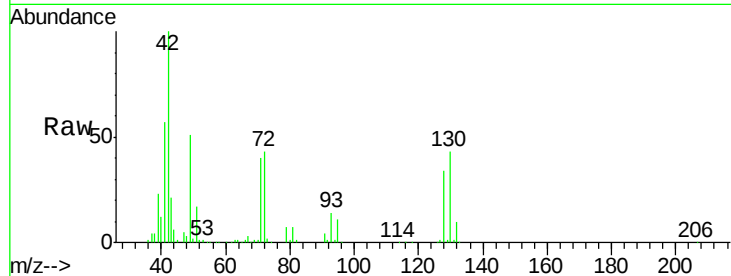
#29
Tetrahydrofuran
Concen: 244.458 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. 0.00 min
Lab File: VN052789.D
Acq: 11 Dec 2018 8:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
42	100		
72	43.3	33.3	49.9
71	40.9	32.0	48.0

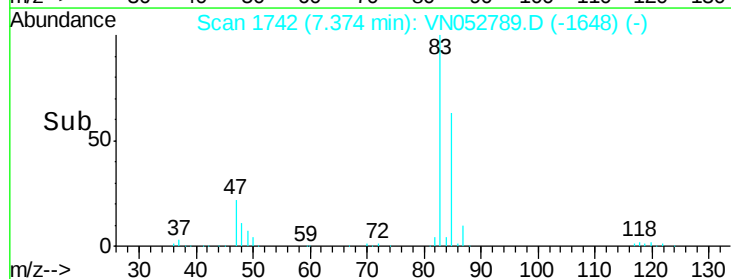
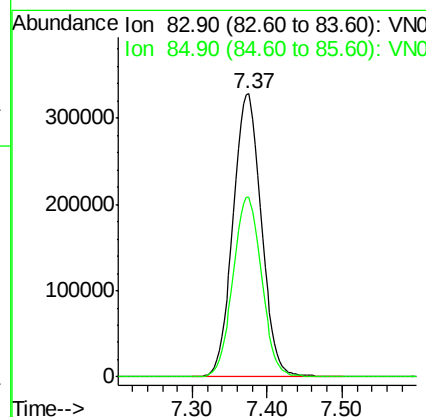
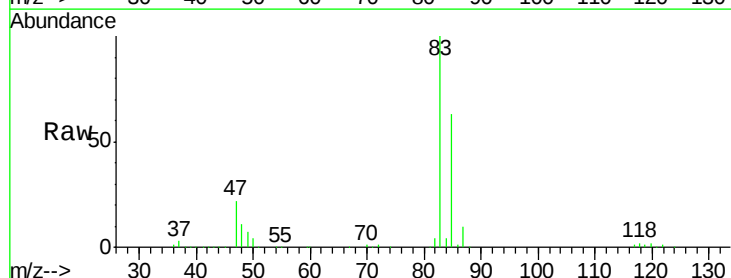
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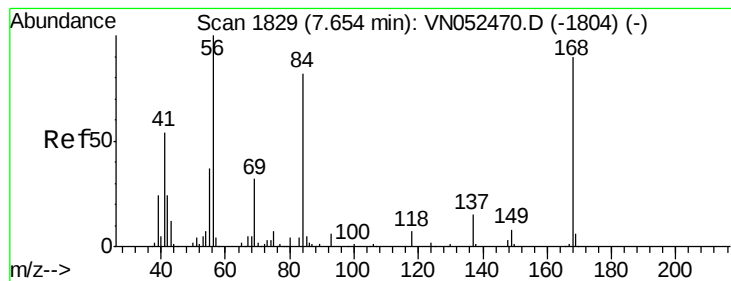
MMDadoda
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#30
Chloroform
Concen: 47.329 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN052789.D
Acq: 11 Dec 2018 8:31

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.5	51.0	76.4





#31

Cyclohexane

Concen: 42.015 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN052789.D

Acq: 11 Dec 2018 8:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 56 Resp: 746629

Ion Ratio Lower Upper

56 100

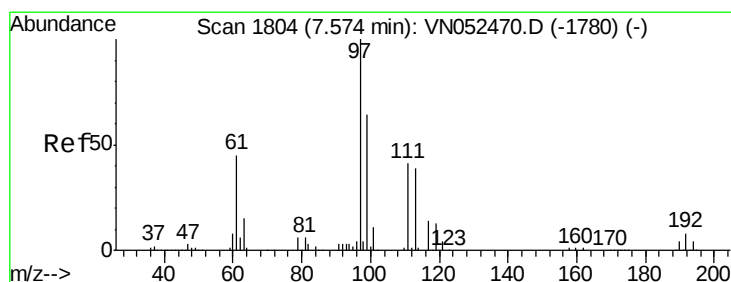
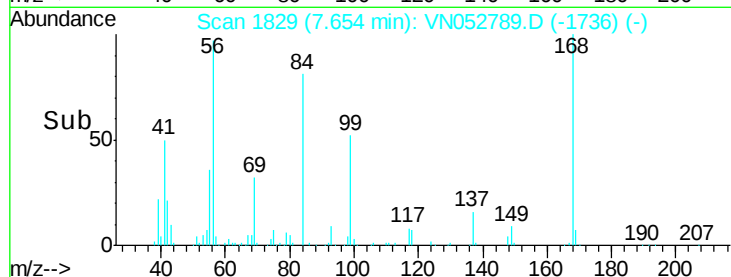
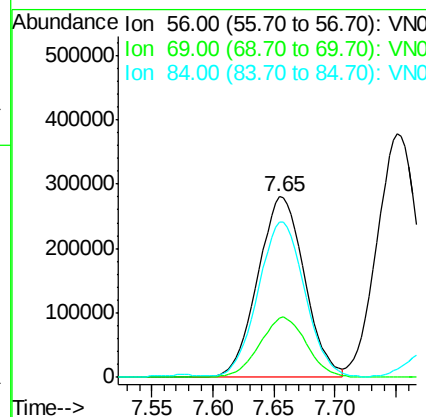
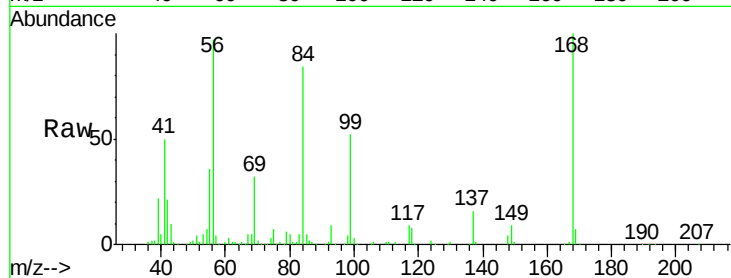
69 33.0 25.8 38.6

84 85.2 65.3 97.9

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 49.091 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. 0.00 min

Lab File: VN052789.D

Acq: 11 Dec 2018 8:31

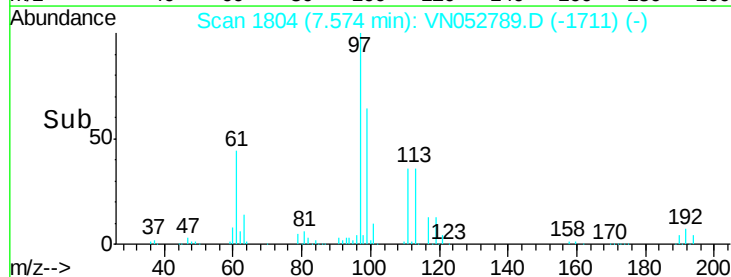
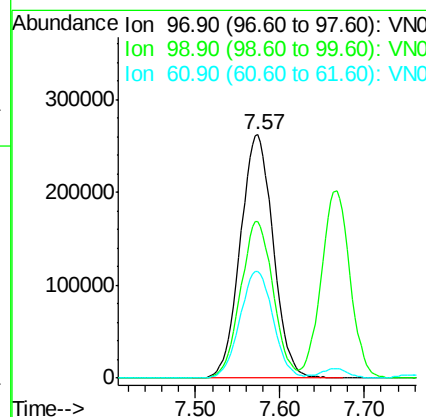
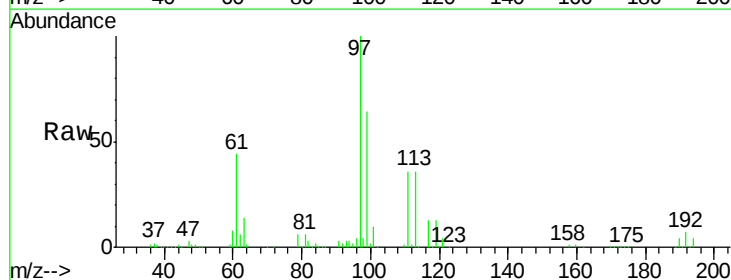
Tgt Ion: 97 Resp: 711479

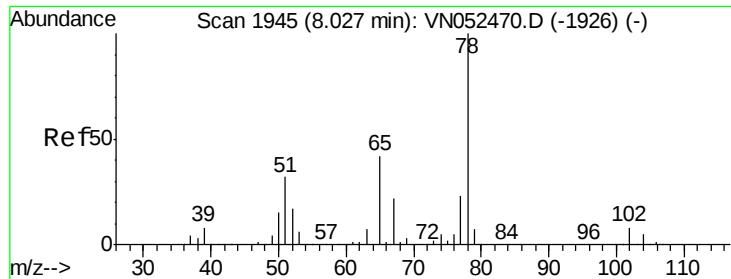
Ion Ratio Lower Upper

97 100

99 63.7 51.7 77.5

61 44.3 36.8 55.2





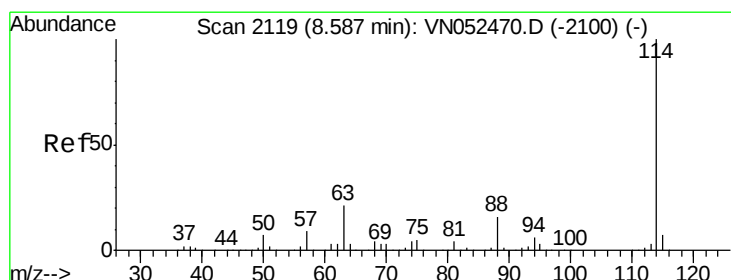
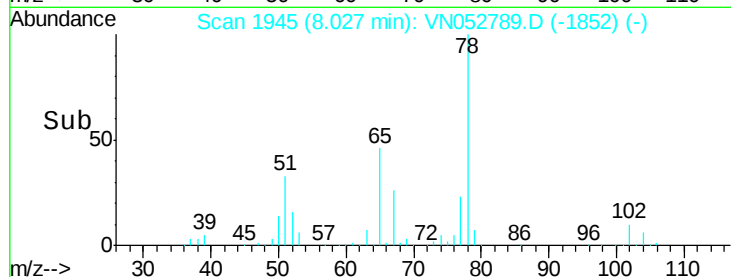
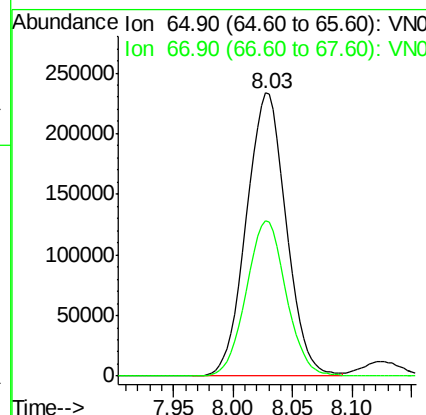
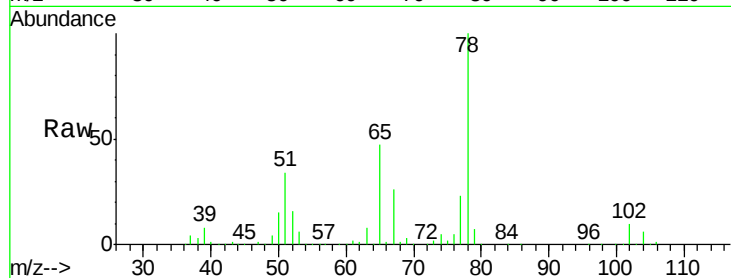
#33
 1,2-Dichloroethane-d4
 Concen: 49.091 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN052789.D
 Acq: 11 Dec 2018 8:31

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
65	100	542721		
67	55.1	0.0	109.8	

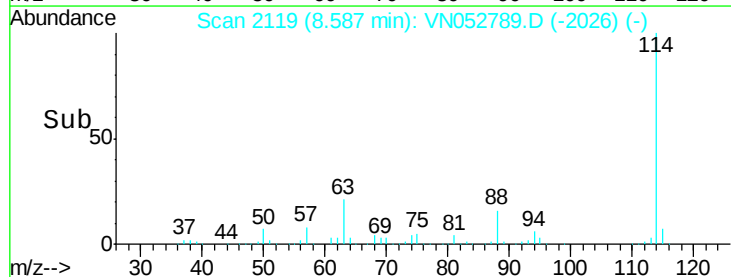
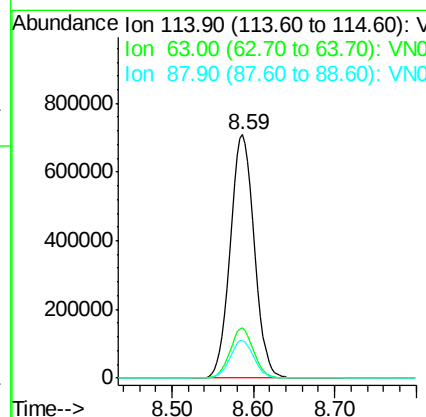
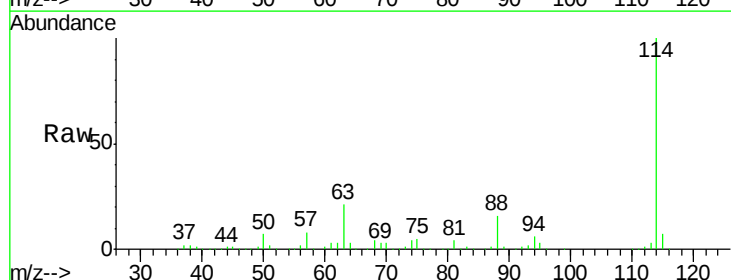
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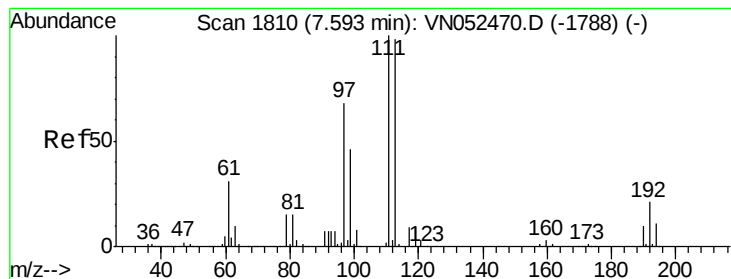
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN052789.D
 Acq: 11 Dec 2018 8:31

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	1475970		
63	20.5	0.0	41.8	
88	15.5	0.0	31.6	





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. -0.00 min

Lab File: VN052789.D

Acq: 11 Dec 2018 8:31

Instrument :

MSVOA_N

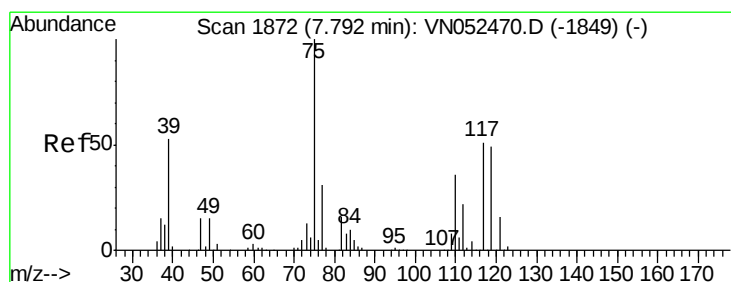
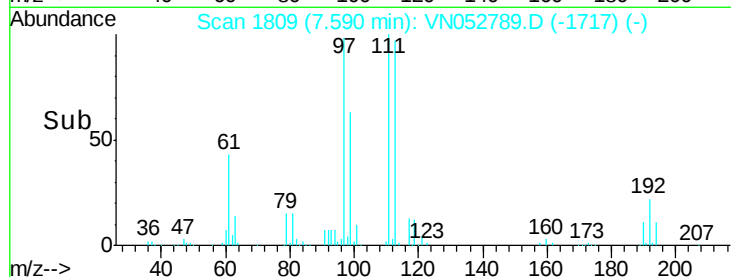
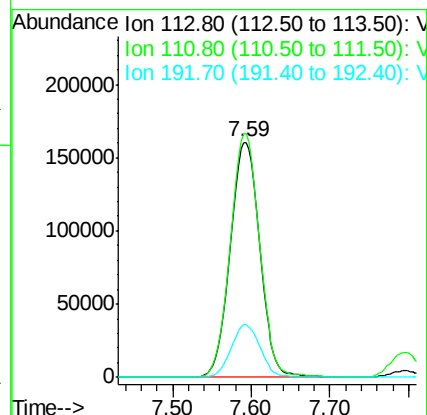
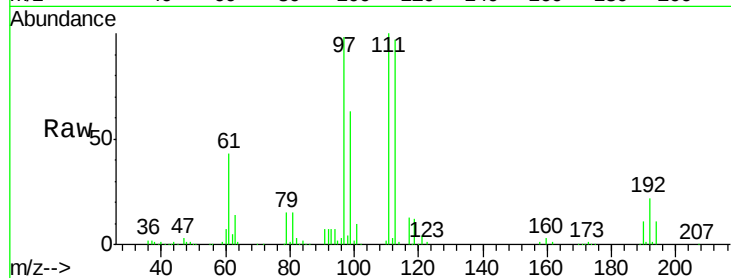
ClientSampleId :

VSTDCCC050EC

Tot Ion:	113	Resp:	418241
Ion Ratio	Lower	Upper	
113	100		
111	102.8	82.0	123.0
192	22.0	17.0	25.6

Manual Integrations
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#36

1,1-Dichloropropene

Concen: 45.738 ug/l

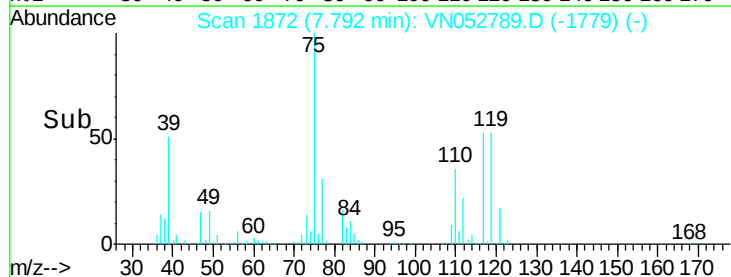
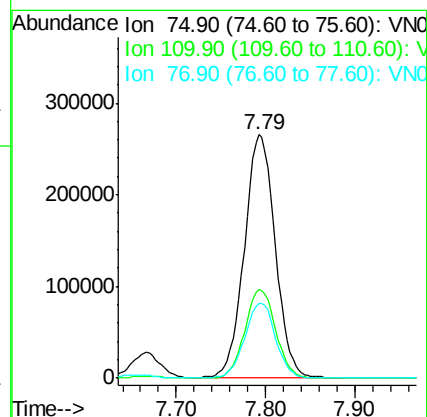
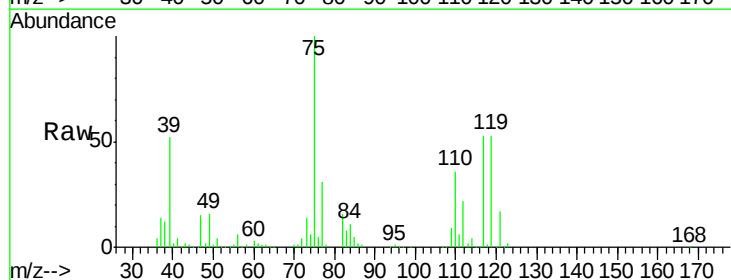
RT: 7.79 min Scan# 1872

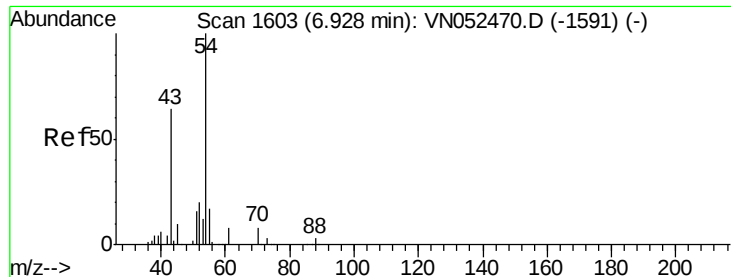
Delta R.T. 0.00 min

Lab File: VN052789.D

Acq: 11 Dec 2018 8:31

Tgt Ion:	75	Resp:	637492
Ion Ratio	Lower	Upper	
75	100		
110	36.4	17.5	52.6
77	31.0	24.5	36.7





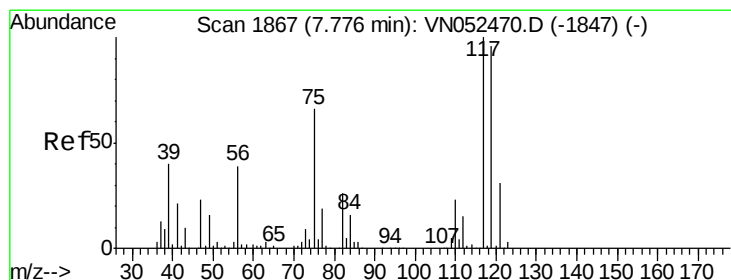
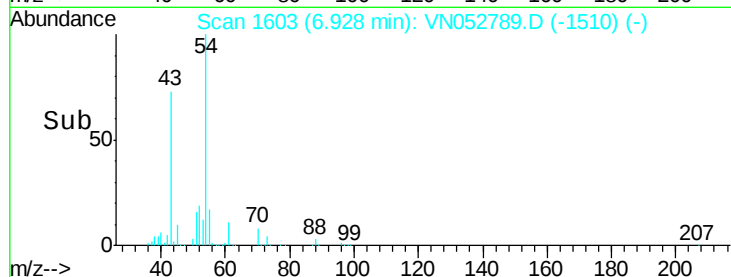
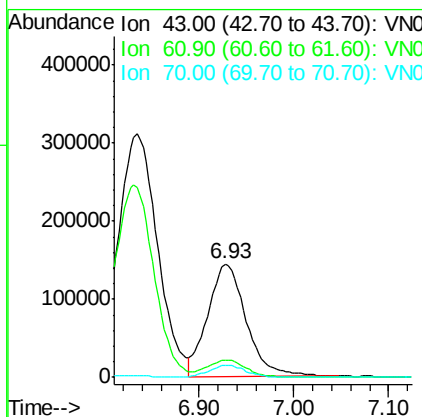
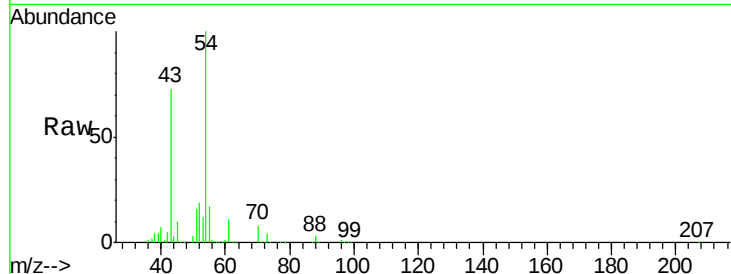
#37
Ethyl Acetate
Concen: 47.815 ug/l
RT: 6.93 min Scan# 1603
Delta R.T. 0.00 min
Lab File: VN052789.D
Acq: 11 Dec 2018 8:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	43	61	70
Ratio	100	15.4	10.2
Lower		11.8	7.8
Upper		17.8	11.8

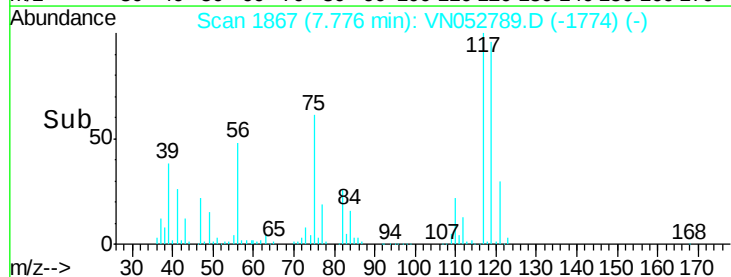
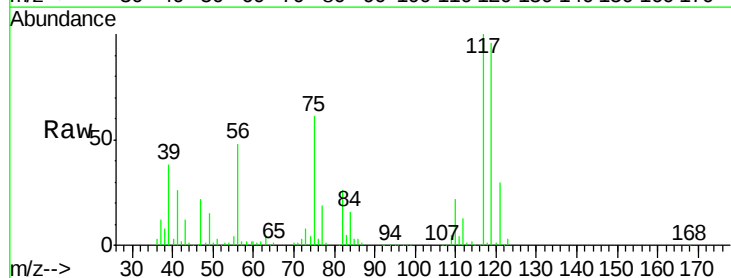
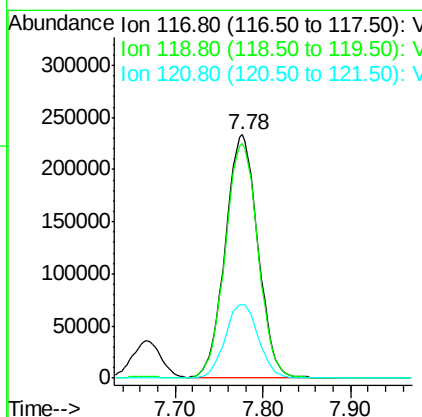
Manual Integrations
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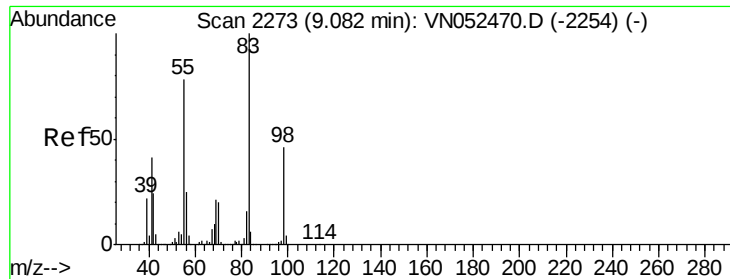
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#38
Carbon Tetrachloride
Concen: 47.738 ug/l
RT: 7.78 min Scan# 1867
Delta R.T. 0.00 min
Lab File: VN052789.D
Acq: 11 Dec 2018 8:31

Tgt Ion	117	119	121
Ratio	100	96.4	30.4
Lower		76.8	24.9
Upper		115.2	37.3





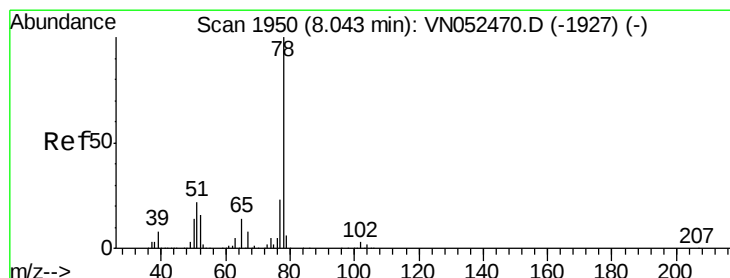
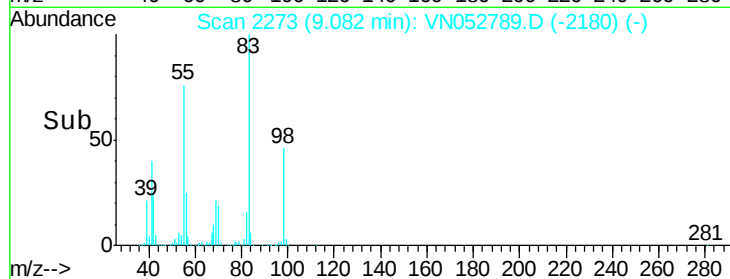
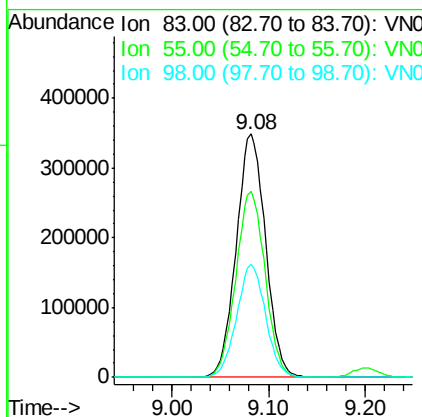
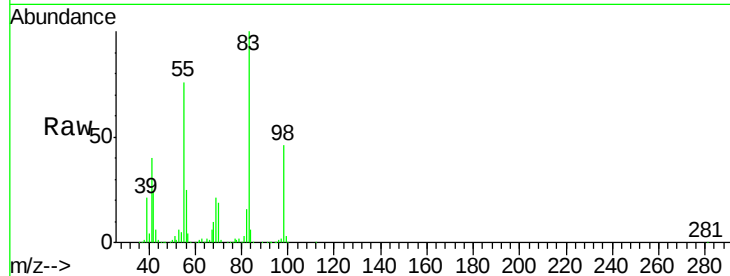
#39
Methvlcvclohexane
Concen: 43.333 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN052789.D
Acq: 11 Dec 2018 8:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
83	100		
55	76.1	62.2	93.2
98	46.2	36.4	54.6

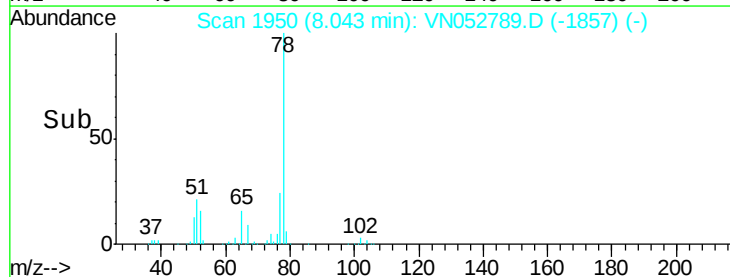
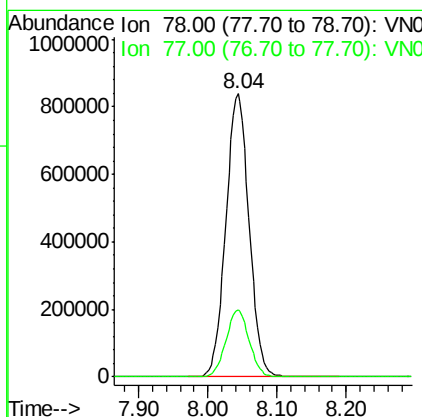
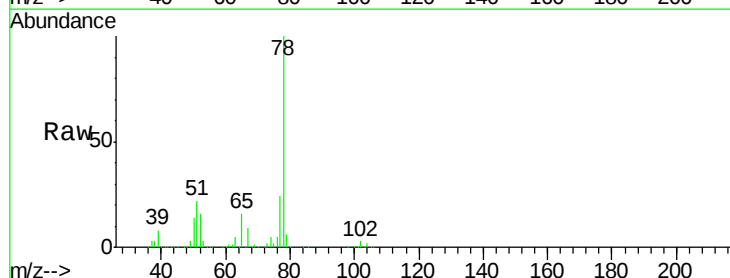
Manual Integrations
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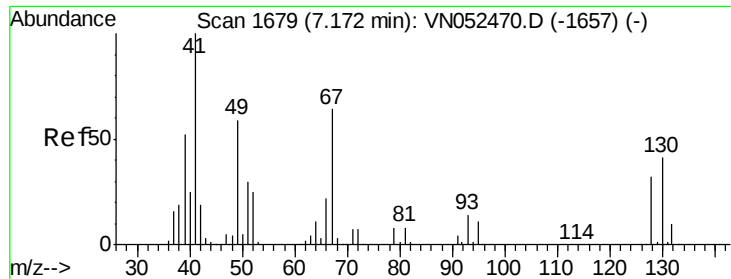
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#40
Benzene
Concen: 47.196 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN052789.D
Acq: 11 Dec 2018 8:31

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.7	18.8	28.2





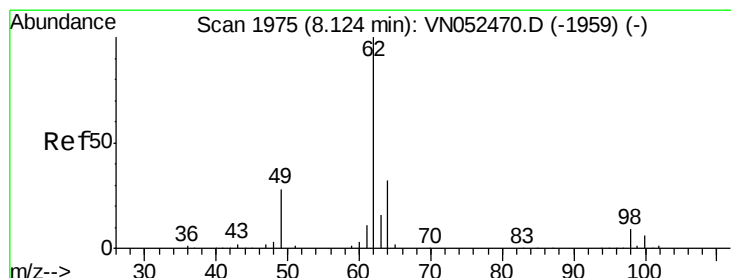
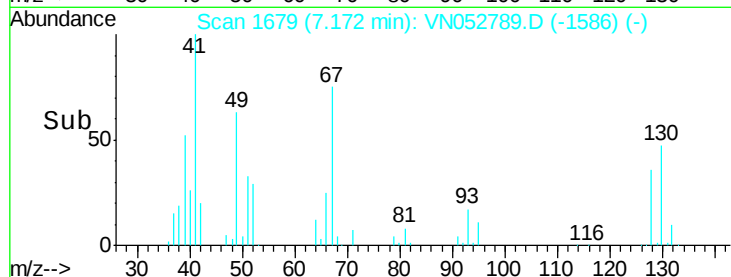
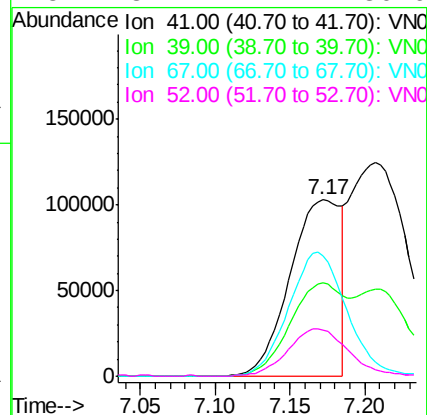
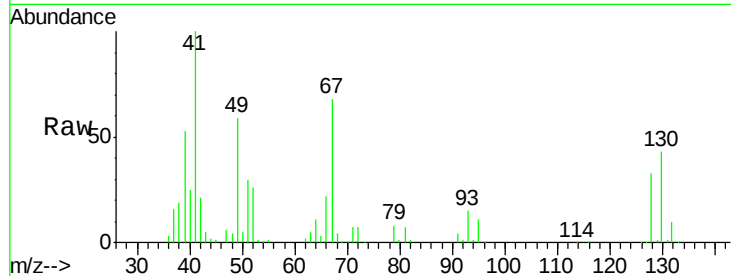
#41
Methacrylonitrile
Concen: 52.217 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. 0.00 min
Lab File: VN052789.D
Acq: 11 Dec 2018 8:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	41	Resp	242832
Ion Ratio	Lower	Upper	
41	100		
39	55.3	50.9	76.3
67	80.5	63.6	95.4
52	31.4	24.4	36.6

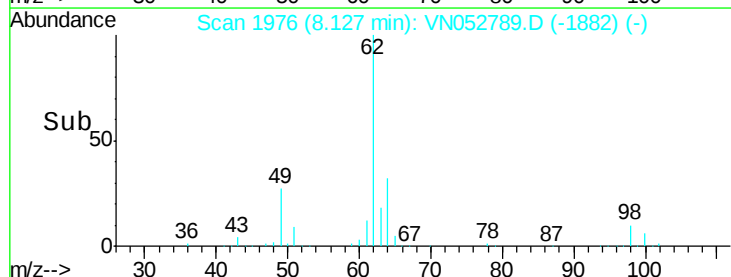
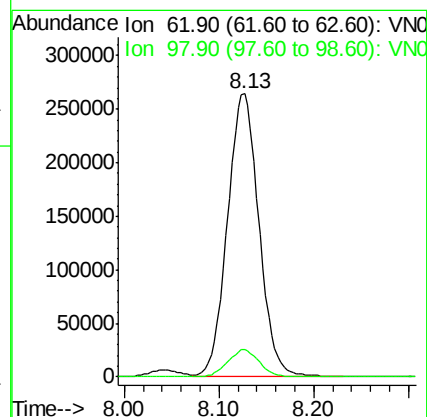
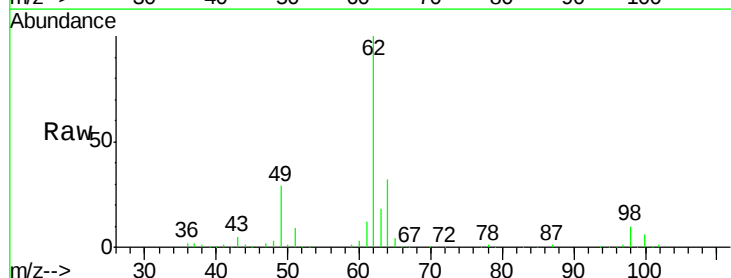
Manual Integrations
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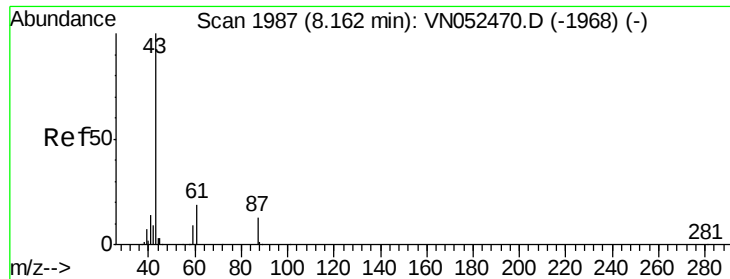
MMDadoda
12/11/2018 12:47:10 PM



#42
1,2-Dichloroethane
Concen: 48.458 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN052789.D
Acq: 11 Dec 2018 8:31

Tgt Ion	62	Resp	609462
Ion Ratio	Lower	Upper	
62	100		
98	9.7	0.0	18.6





#43

Isopropyl Acetate

Concen: 55.258 ug/l

RT: 8.16 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN052789.D

Acq: 11 Dec 2018 8:31

Instrument :

MSVOA_N

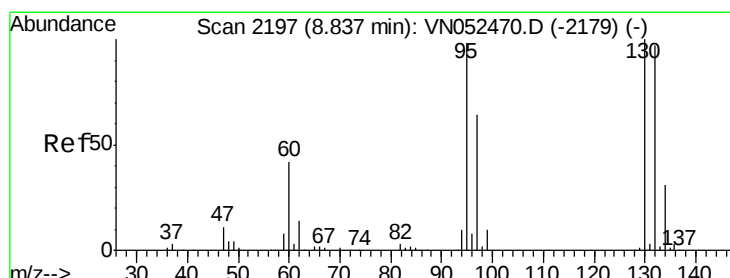
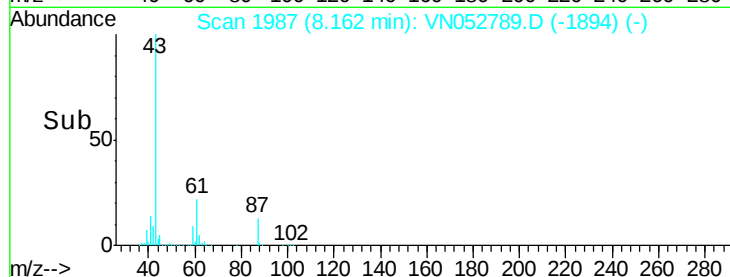
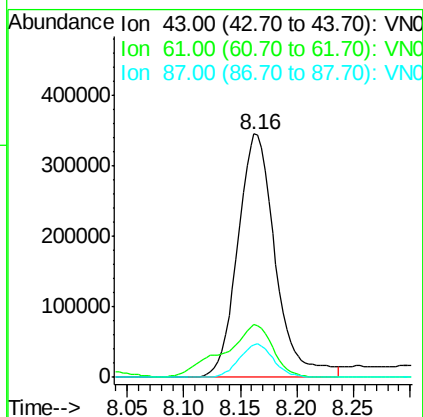
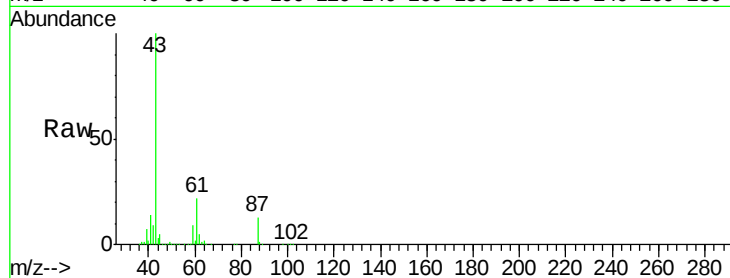
ClientSampleId :

VSTDCCC050EC

Tot Ion:	43	Resp:	795447
Ion Ratio	Lower	Upper	
43	100		
61	28.2	24.1	36.1
87	12.6	10.6	15.8

Manual Integrations
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#44

Trichloroethene

Concen: 49.668 ug/l

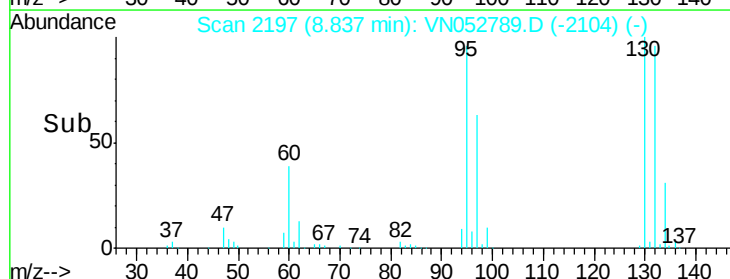
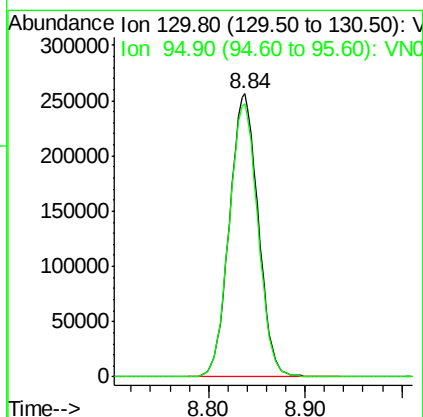
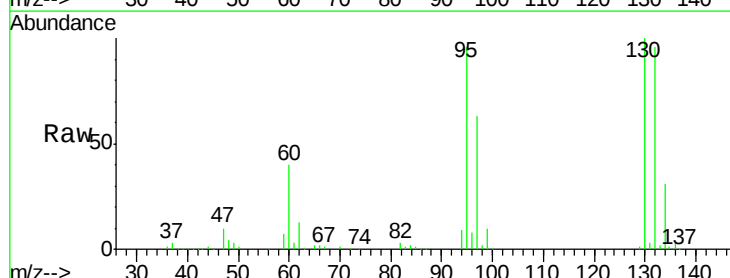
RT: 8.84 min Scan# 2197

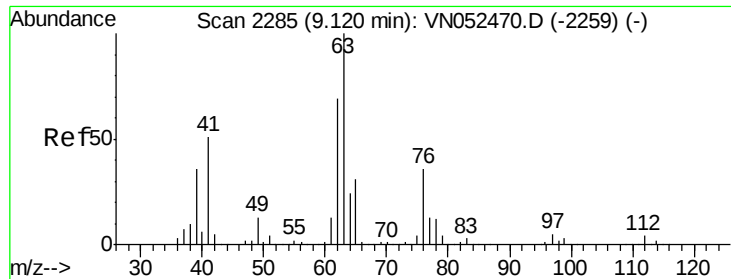
Delta R.T. 0.00 min

Lab File: VN052789.D

Acq: 11 Dec 2018 8:31

Tgt Ion:	130	Resp:	528459
Ion Ratio	Lower	Upper	
130	100		
95	96.4	0.0	195.6





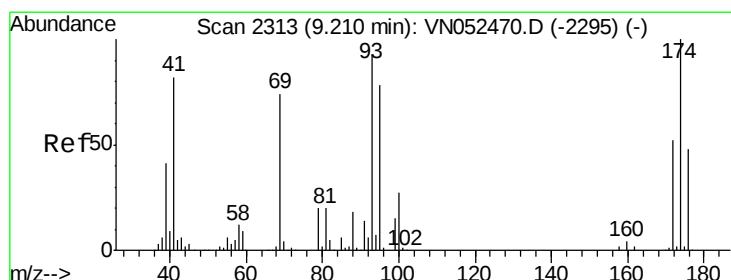
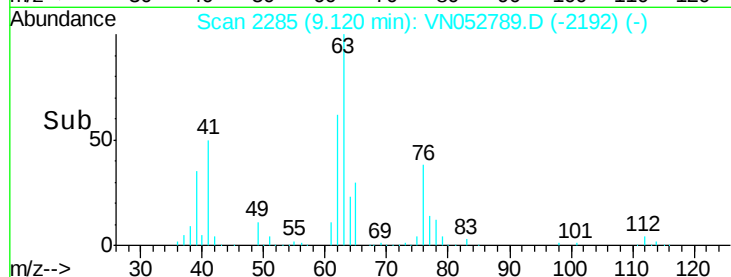
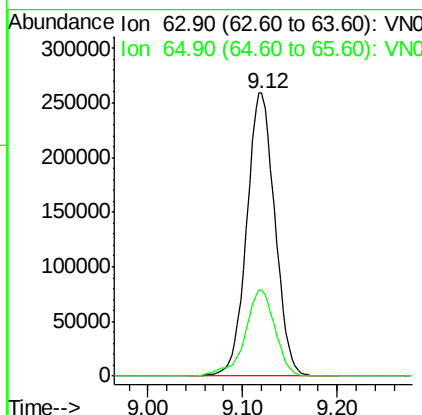
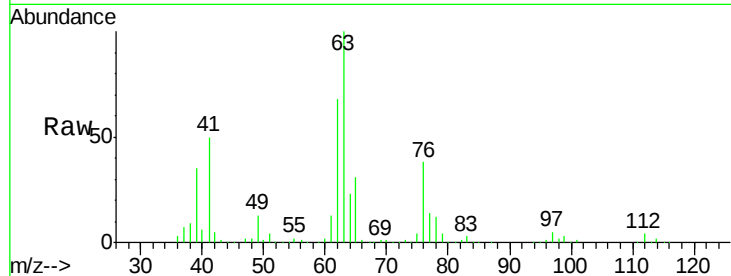
#45
 1,2-Dichloropropane
 Concen: 48.519 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN052789.D
 Acq: 11 Dec 2018 8:31

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion: 63 Resp: 535808
 Ion Ratio Lower Upper
 63 100
 65 30.6 25.0 37.6

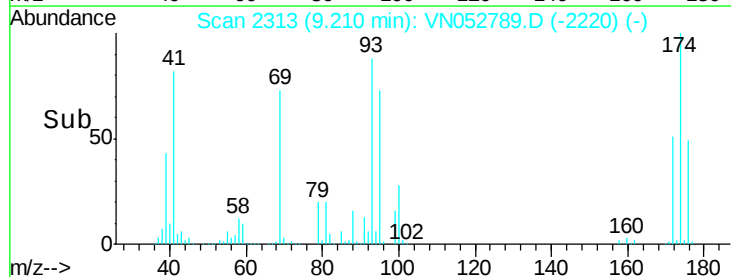
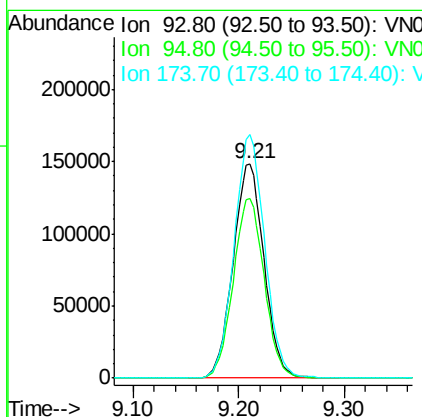
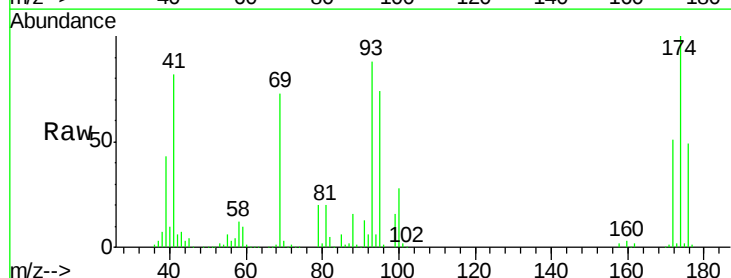
Manual Integrations
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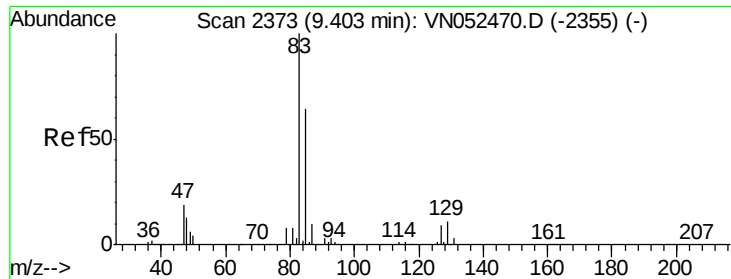
MMDadoda
 12/11/2018 12:47:10 PM



#46
 Dibromomethane
 Concen: 49.470 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN052789.D
 Acq: 11 Dec 2018 8:31

Tgt Ion: 93 Resp: 302433
 Ion Ratio Lower Upper
 93 100
 95 84.2 67.1 100.7
 174 112.3 85.8 128.8





#47

Bromodichloromethane

Concen: 49.745 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN052789.D

Acq: 11 Dec 2018 8:31

Instrument :

MSVOA_N

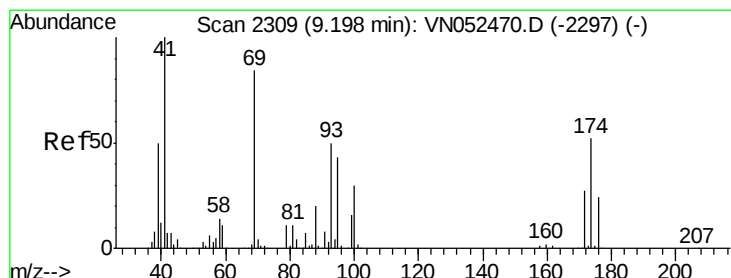
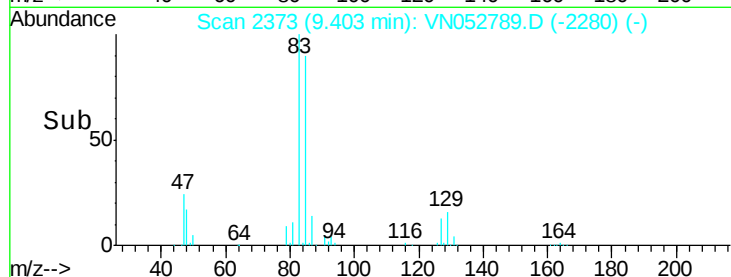
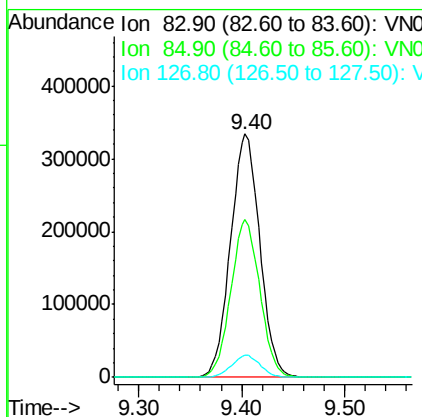
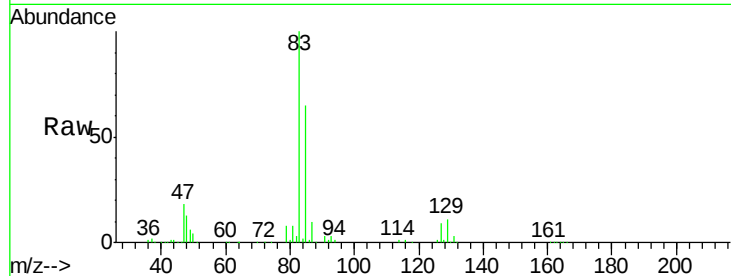
ClientSampleId :

VSTDCCC050EC

Tot Ion:	83	Resp:	661197
Ion Ratio	Lower	Upper	
83	100		
85	64.7	51.3	76.9
127	9.0	6.9	10.3

Manual Integrations
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#48

Methyl methacrylate

Concen: 50.572 ug/l

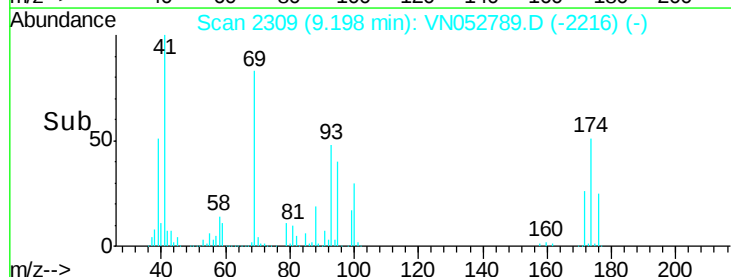
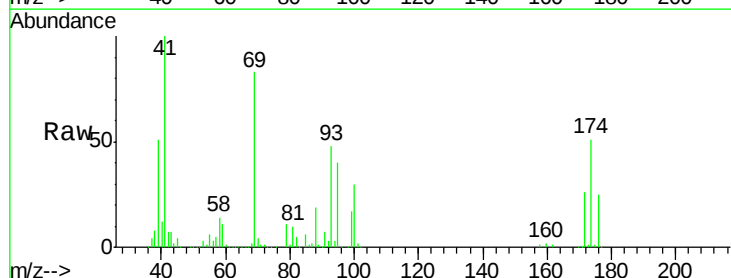
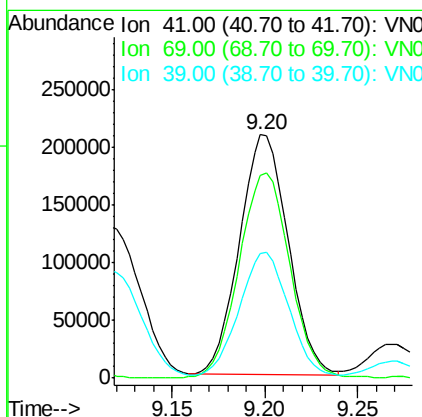
RT: 9.20 min Scan# 2309

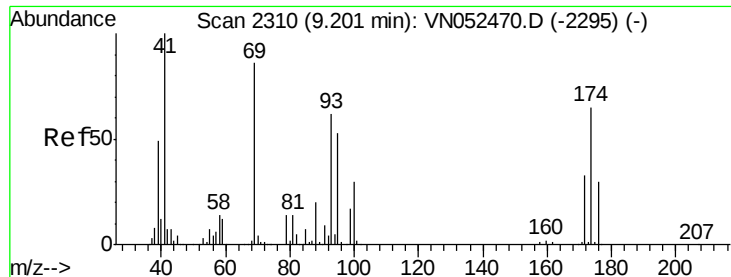
Delta R.T. 0.00 min

Lab File: VN052789.D

Acq: 11 Dec 2018 8:31

Tgt Ion:	41	Resp:	379593
Ion Ratio	Lower	Upper	
41	100		
69	89.4	70.0	105.0
39	53.9	42.6	64.0





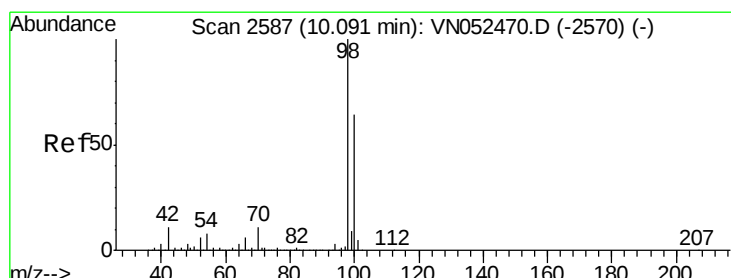
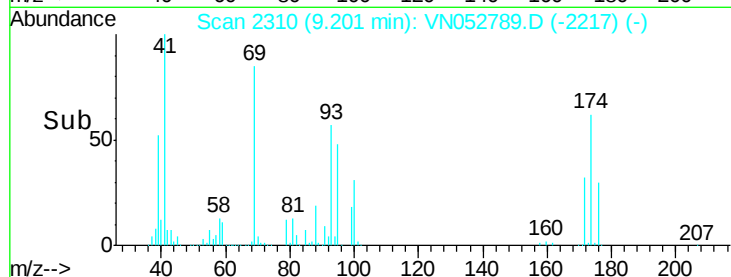
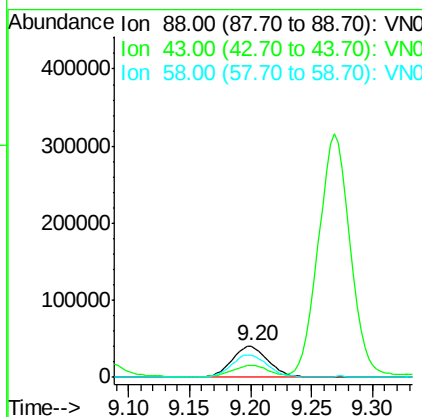
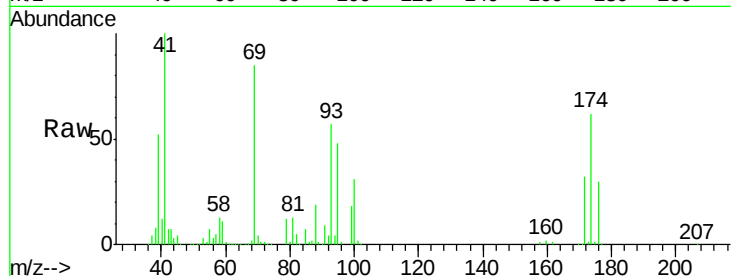
#49
1,4-Dioxane
Concen: 1072.903 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN052789.D
Acq: 11 Dec 2018 8:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	88	Resp	83579
Ion	Ratio	Lower	Upper
88	100		
43	33.8	26.4	39.6
58	71.3	55.4	83.0

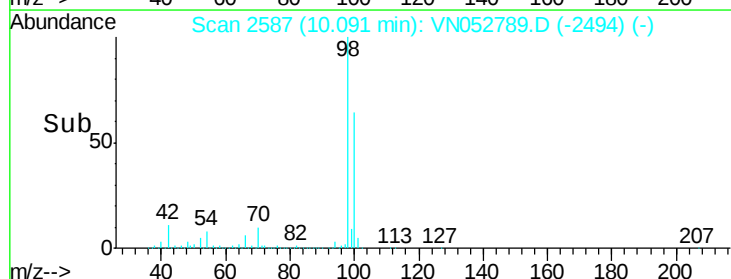
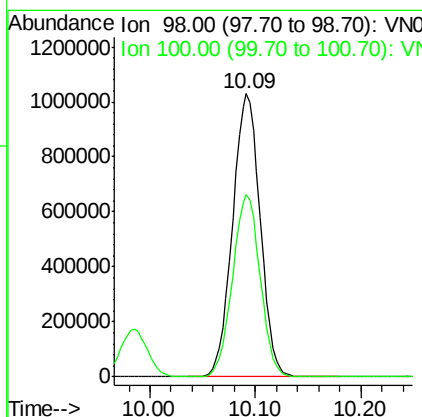
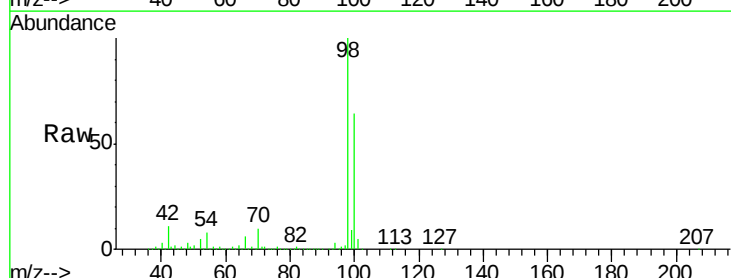
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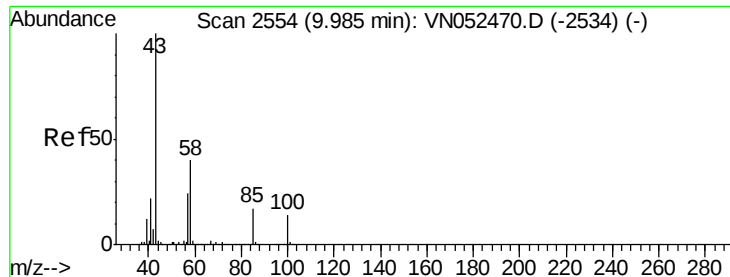
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#50
Toluene-d8
Concen: 1072.903 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN052789.D
Acq: 11 Dec 2018 8:31

Tgt Ion	98	Resp	1861110
Ion	Ratio	Lower	Upper
98	100		
100	64.2	51.3	76.9





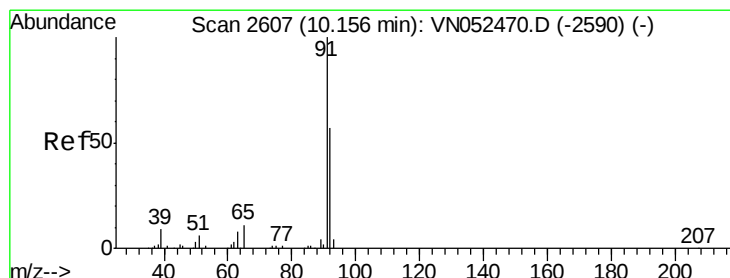
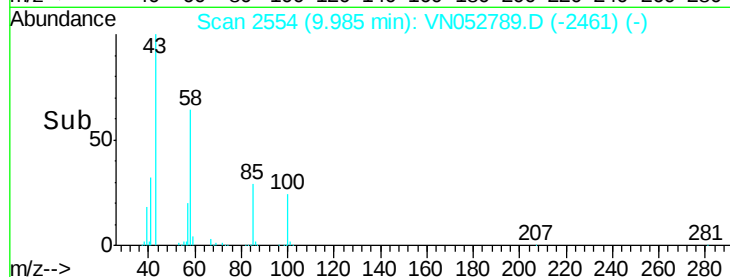
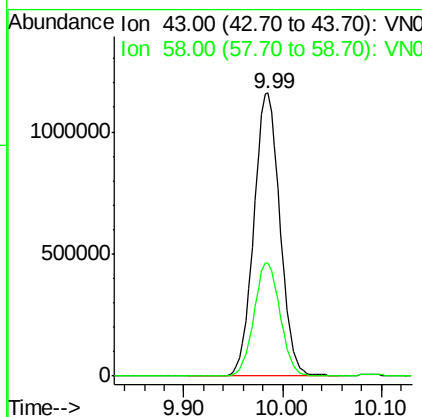
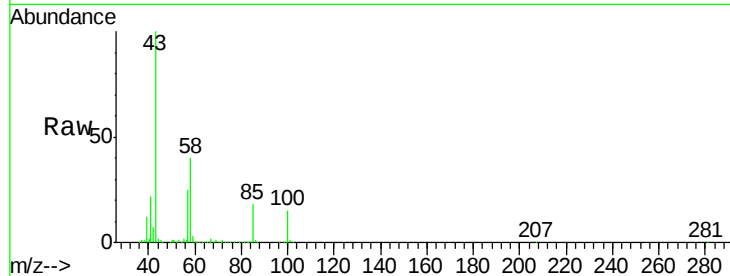
#51
4-Methyl-2-Pentanone
Concen: 259.557 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN052789.D
Acq: 11 Dec 2018 8:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion: 43 Resp: 2096359
Ion Ratio Lower Upper
43 100
58 40.3 31.5 47.3

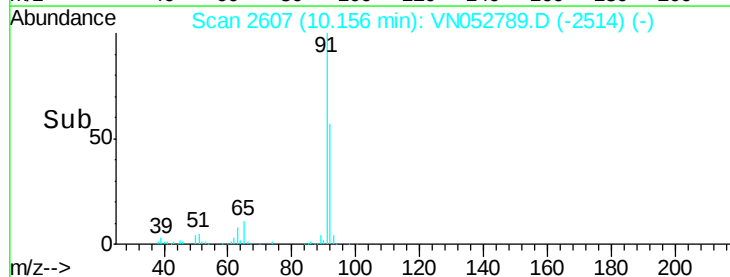
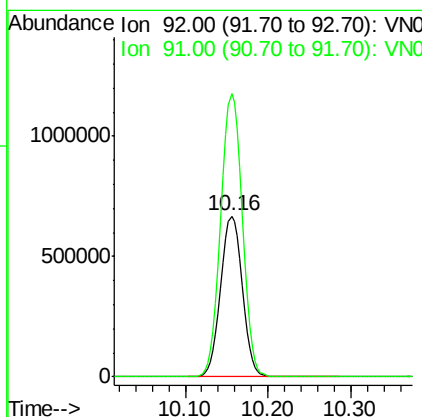
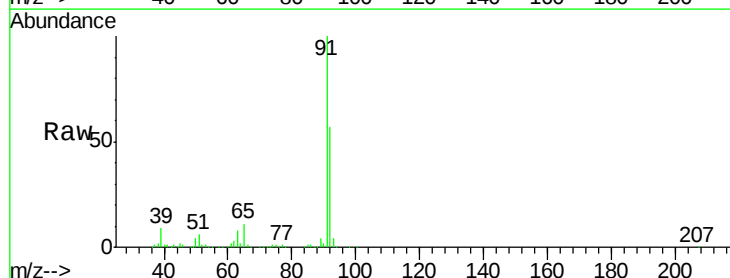
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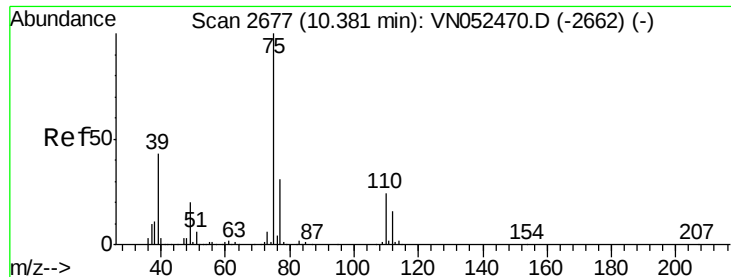
MMDadoda
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#52
Toluene
Concen: 48.890 ug/l
RT: 10.16 min Scan# 2607
Delta R.T. 0.00 min
Lab File: VN052789.D
Acq: 11 Dec 2018 8:31

Tgt Ion: 92 Resp: 1206582
Ion Ratio Lower Upper
92 100
91 175.8 141.0 211.4





#53

t-1,3-Dichloropropene

Concen: 48.999 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. 0.00 min

Lab File: VN052789.D

Acq: 11 Dec 2018 8:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 75 Resp: 626543

Ion Ratio Lower Upper

75 100

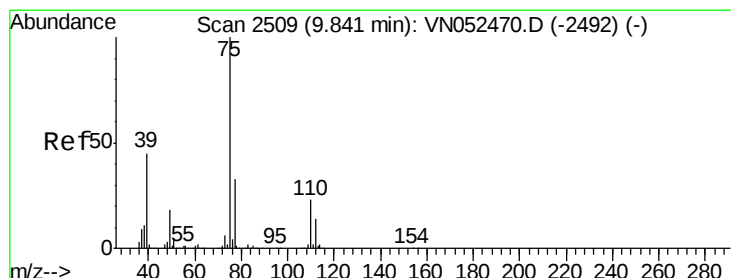
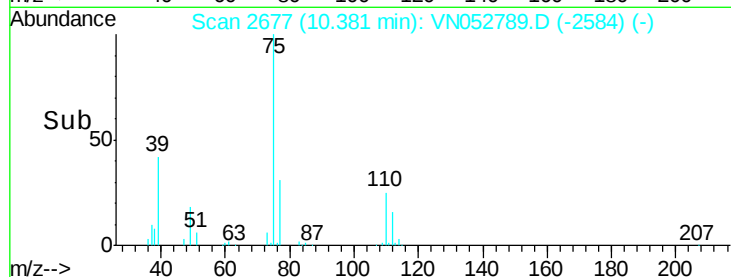
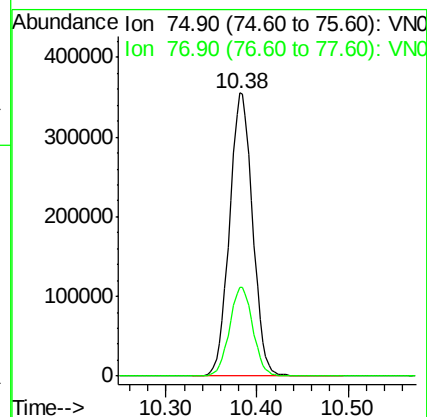
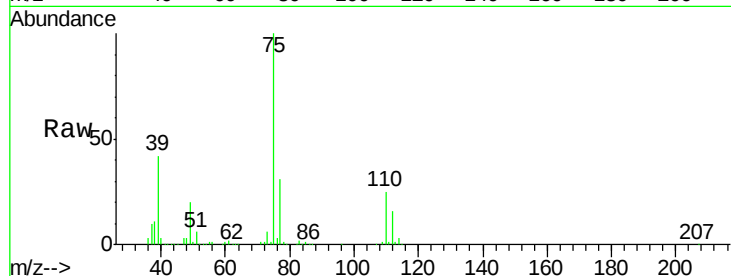
77 31.4 25.0 37.4

Manual Integrations

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#54

cis-1,3-Dichloropropene

Concen: 47.826 ug/l

RT: 9.84 min Scan# 2509

Delta R.T. 0.00 min

Lab File: VN052789.D

Acq: 11 Dec 2018 8:31

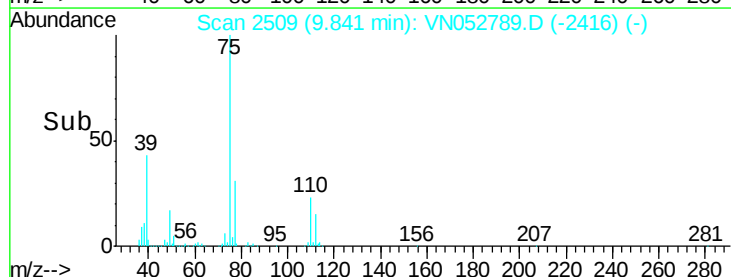
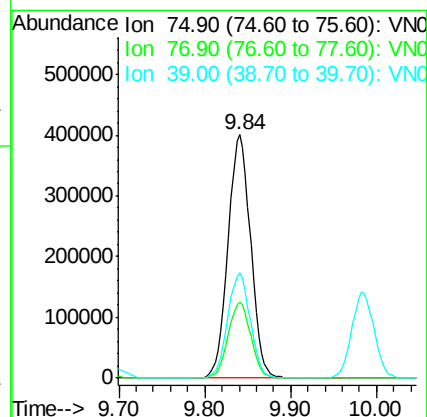
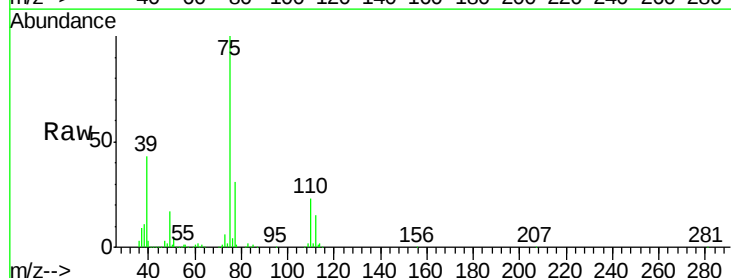
Tgt Ion: 75 Resp: 732852

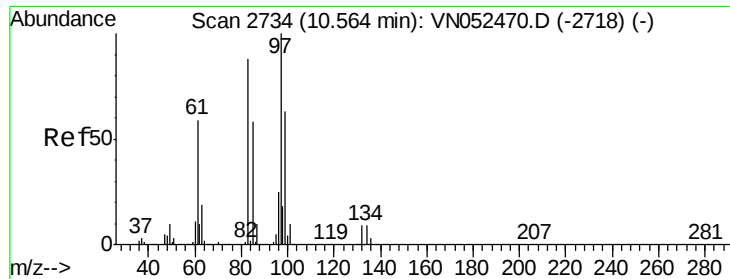
Ion Ratio Lower Upper

75 100

77 31.4 26.2 39.2

39 43.1 36.0 54.0





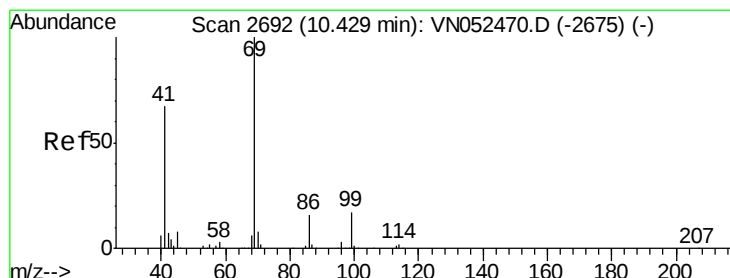
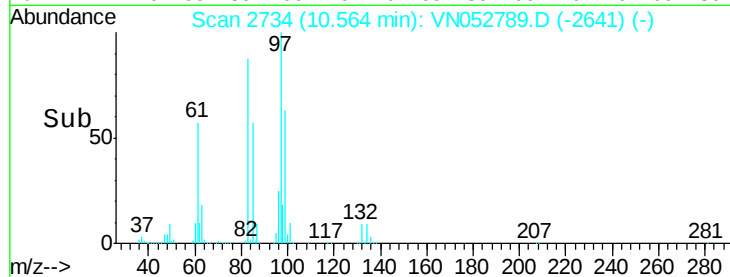
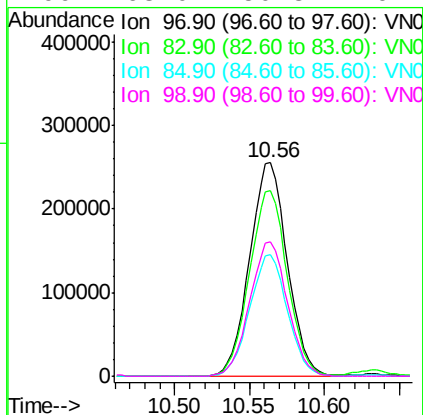
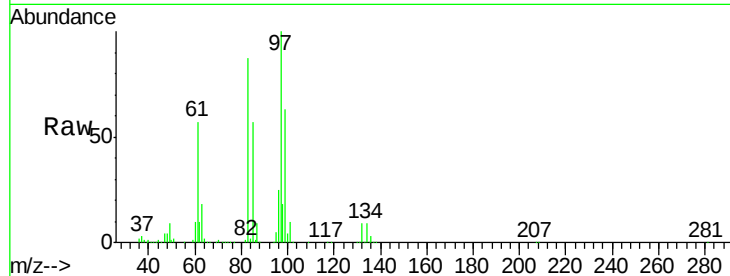
#55
 1,1,2-Trichloroethane
 Concen: 51.567 ug/l
 RT: 10.56 min Scan# 2734
 Delta R.T. 0.00 min
 Lab File: VN052789.D
 Acq: 11 Dec 2018 8:31

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion:	97	Resp:	447660
Ion	Ratio	Lower	Upper
97	100		
83	87.2	70.7	106.1
85	56.8	46.1	69.1
99	63.0	50.8	76.2

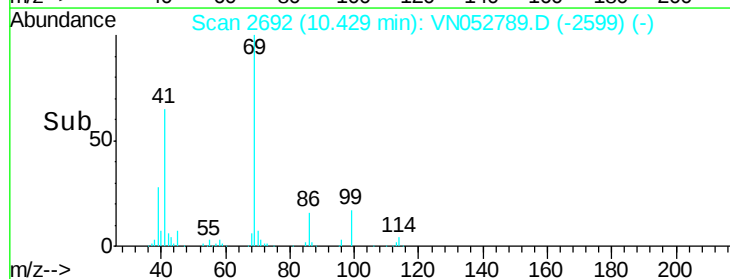
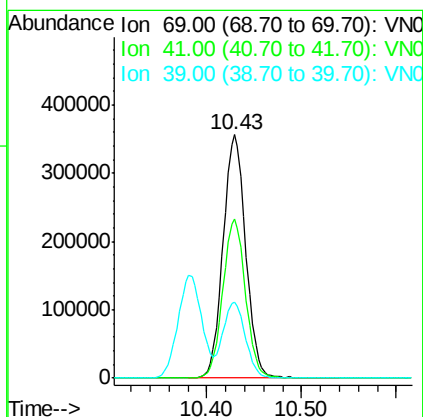
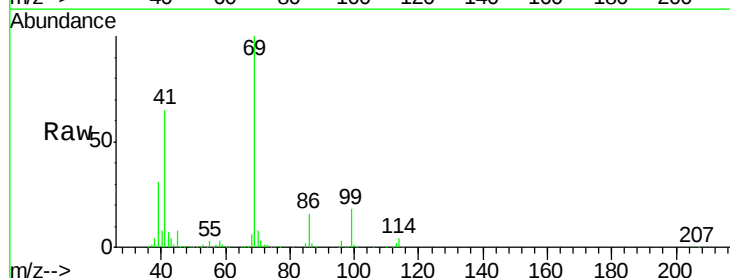
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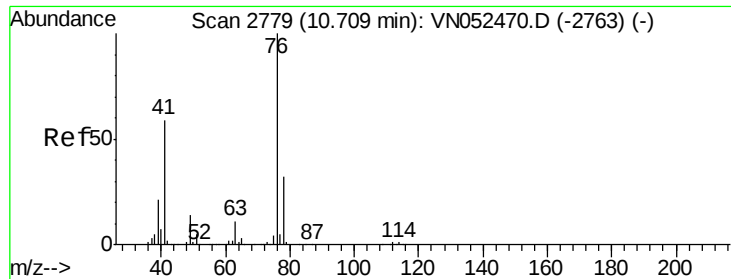
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#56
 Ethyl methacrylate
 Concen: 49.226 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN052789.D
 Acq: 11 Dec 2018 8:31

Tgt Ion:	69	Resp:	592872
Ion	Ratio	Lower	Upper
69	100		
41	64.6	52.6	79.0
39	31.0	25.9	38.9





#57

1,3-Dichloropropane

Concen: 49.865 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN052789.D

Acq: 11 Dec 2018 8:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 76 Resp: 764342

Ion Ratio Lower Upper

76 100

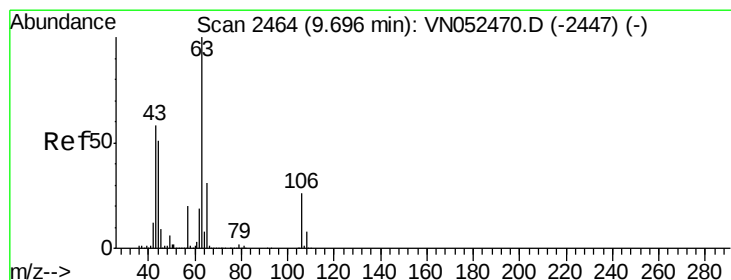
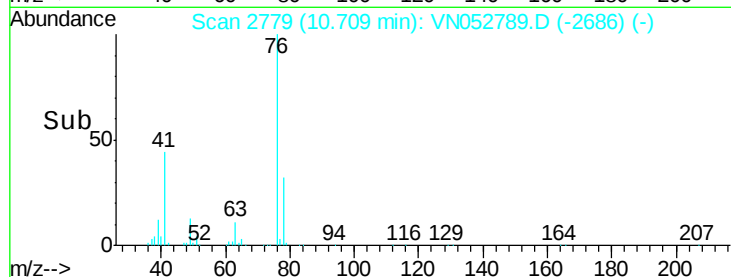
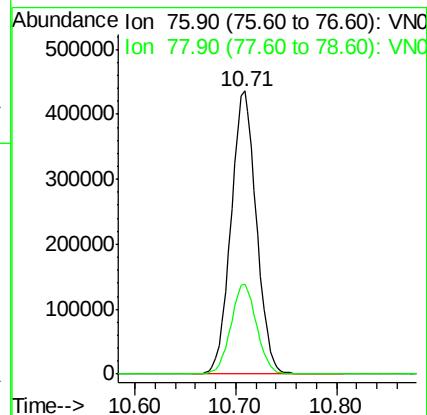
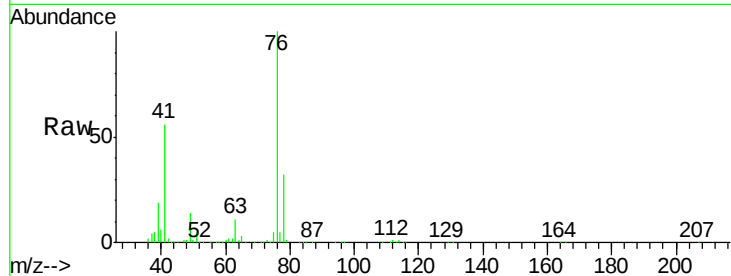
78 32.3 25.6 38.4

Manual Integrations

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#58

2-Chloroethyl Vinyl ether

Concen: 265.674 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN052789.D

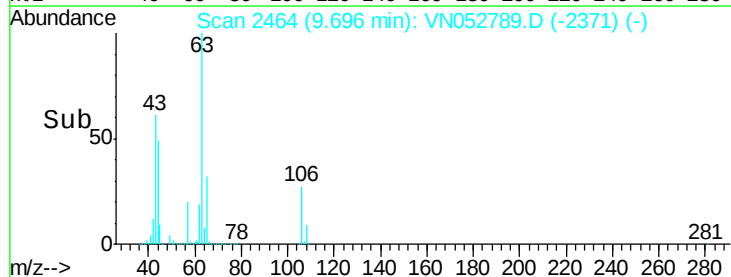
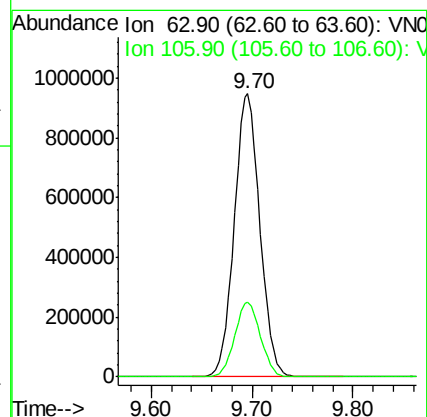
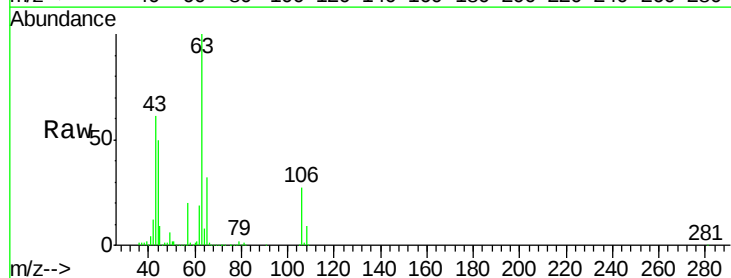
Acq: 11 Dec 2018 8:31

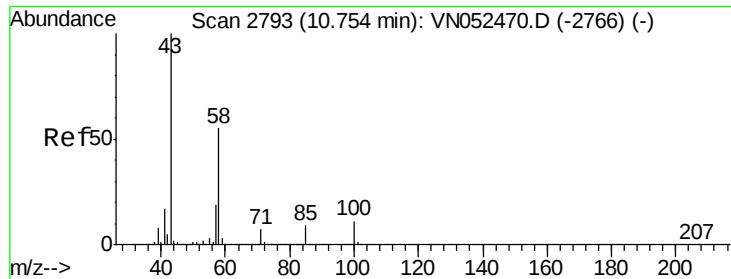
Tgt Ion: 63 Resp: 1673539

Ion Ratio Lower Upper

63 100

106 26.5 20.6 30.8





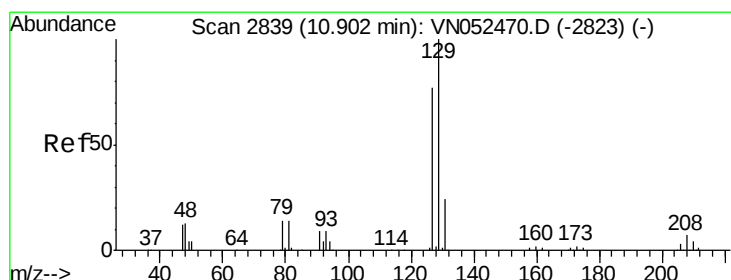
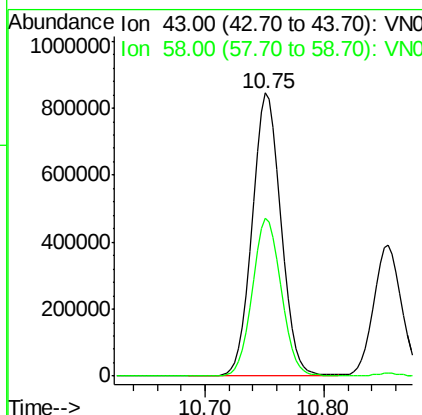
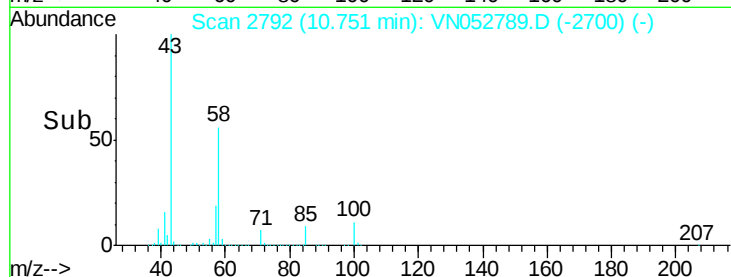
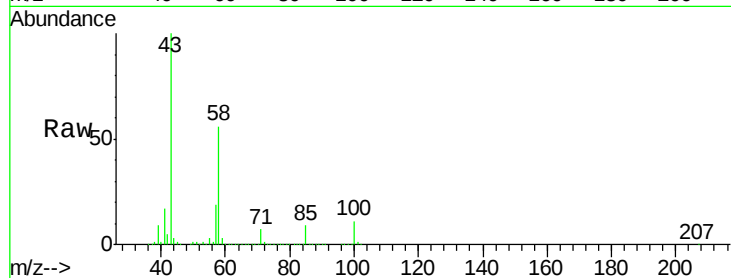
#59
2-Hexanone
Concen: 260.885 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. -0.00 min
Lab File: VN052789.D
Acq: 11 Dec 2018 8:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion: 43 Resp: 1414178
Ion Ratio Lower Upper
43 100
58 56.1 27.4 82.0

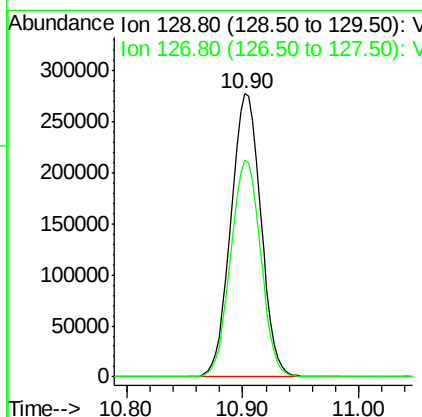
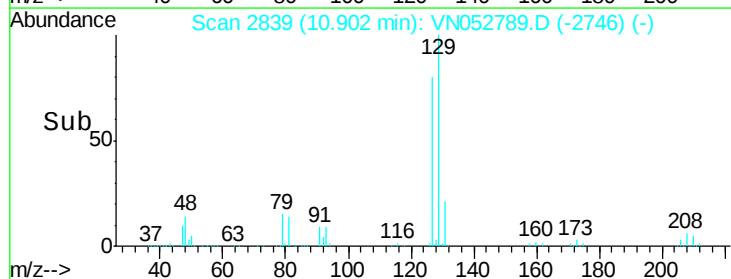
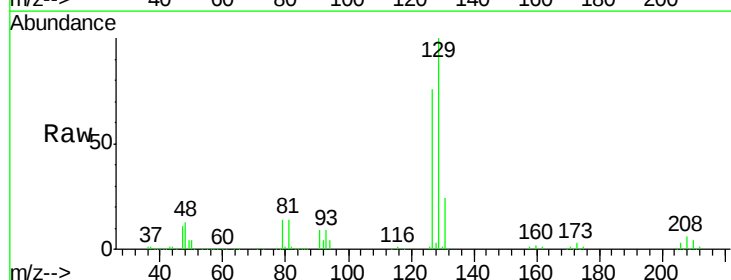
Manual Integrations
APPROVED

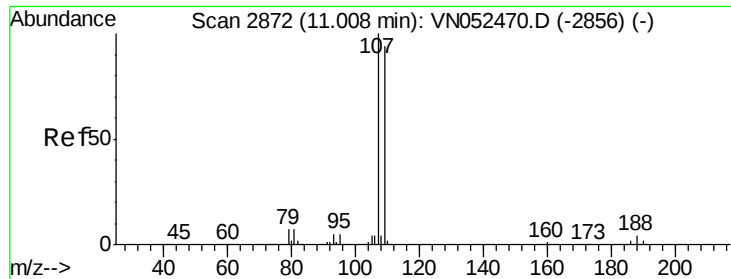
MMDadoda
12/11/2018 12:47:10 PM



#60
Dibromochloromethane
Concen: 52.594 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN052789.D
Acq: 11 Dec 2018 8:31

Tgt Ion: 129 Resp: 495884
Ion Ratio Lower Upper
129 100
127 76.7 38.9 116.6





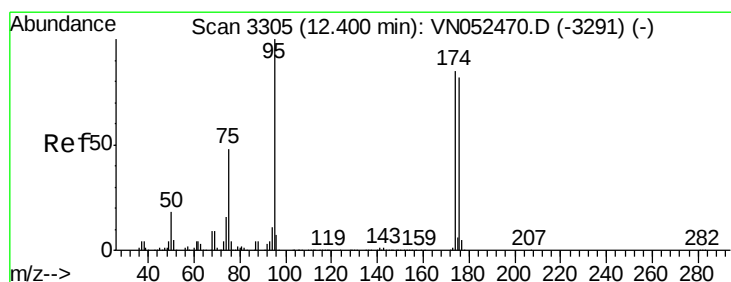
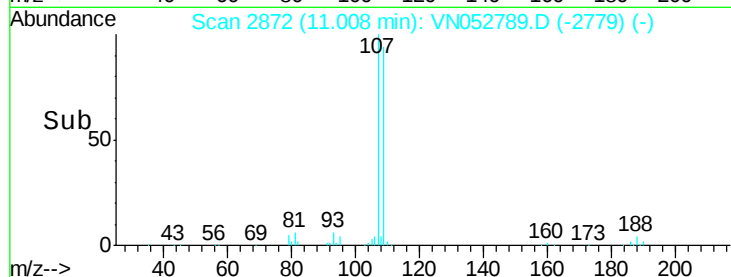
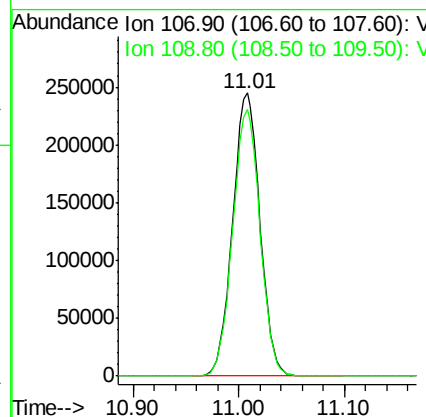
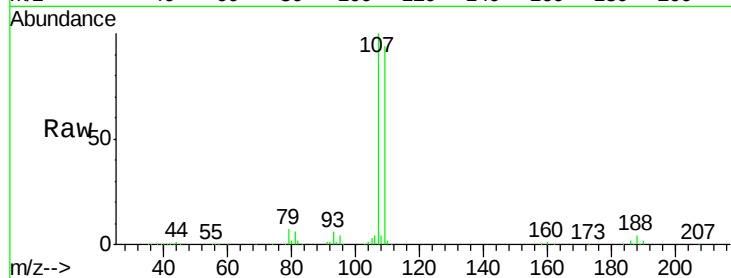
#61
 1,2-Dibromoethane
 Concen: 50.635 ug/l
 RT: 11.01 min Scan# 2872
 Delta R.T. 0.00 min
 Lab File: VN052789.D
 Acq: 11 Dec 2018 8:31

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion: 107 Resp: 436587
 Ion Ratio Lower Upper
 107 100
 109 94.5 75.6 113.4

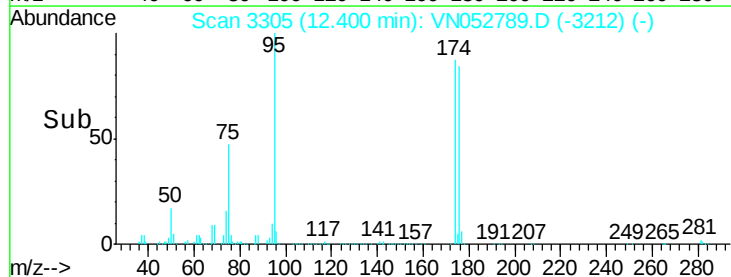
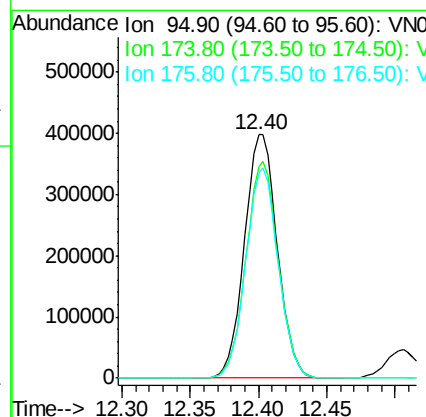
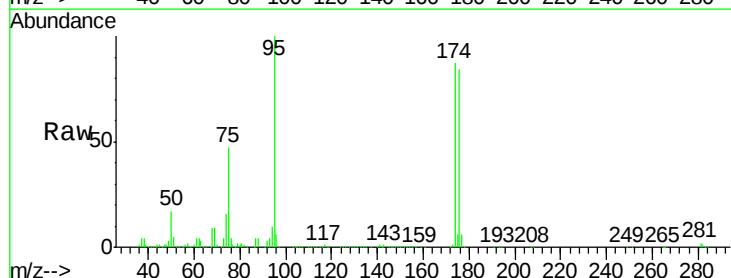
Manual Integrations
 APPROVED

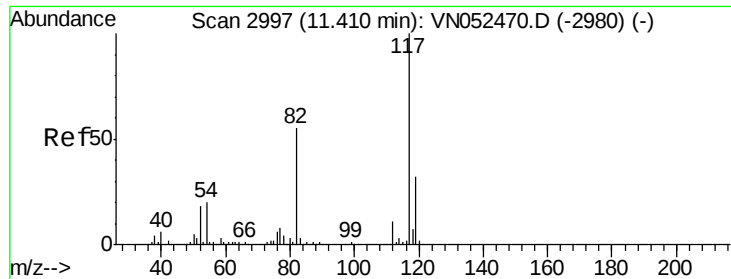
MMDadoda
 12/11/2018 12:47:10 PM



#62
 4-Bromofluorobenzene
 Concen: 50.635 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.00 min
 Lab File: VN052789.D
 Acq: 11 Dec 2018 8:31

Tgt Ion: 95 Resp: 661942
 Ion Ratio Lower Upper
 95 100
 174 88.0 0.0 173.0
 176 85.2 0.0 166.2





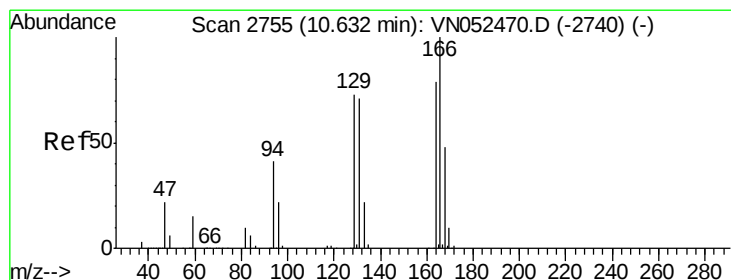
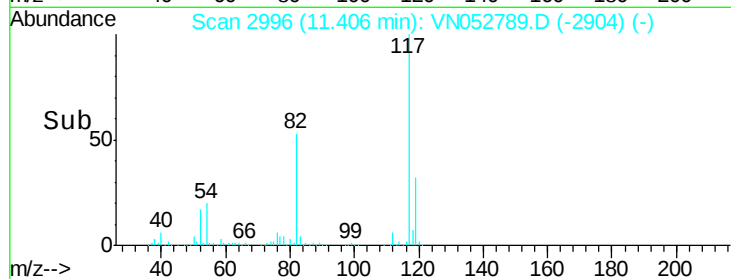
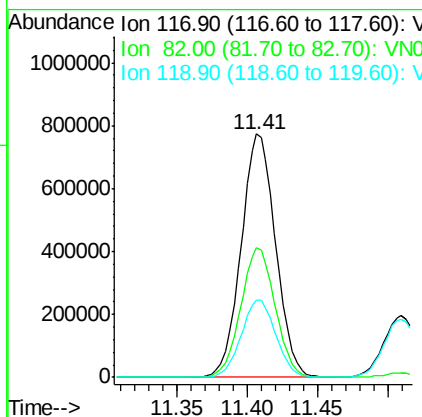
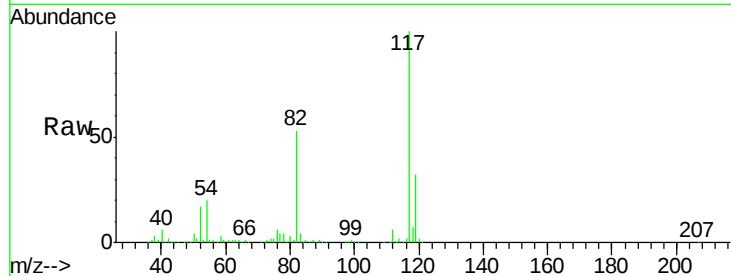
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN052789.D
Acq: 11 Dec 2018 8:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion:117 Resp: 1320994
Ion Ratio Lower Upper
117 100
82 53.2 43.6 65.4
119 31.8 25.4 38.2

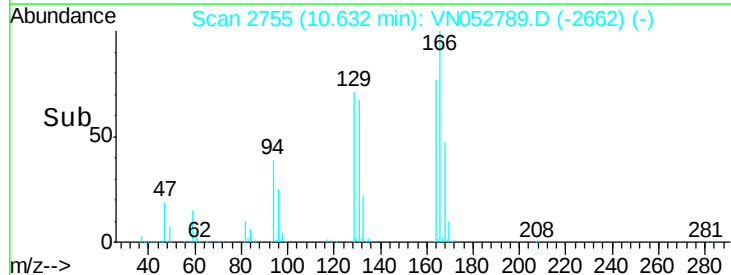
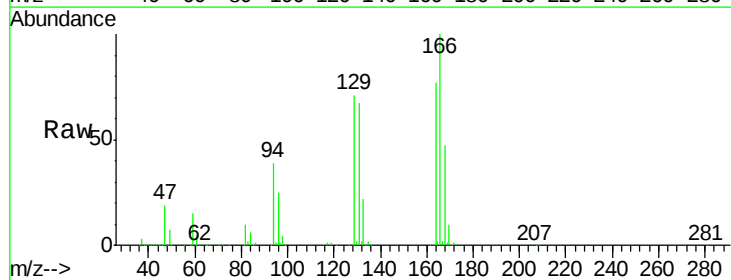
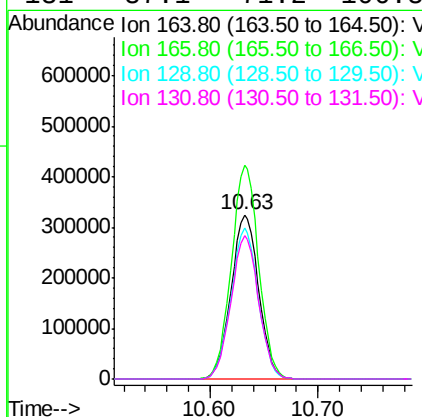
Manual Integrations
APPROVED

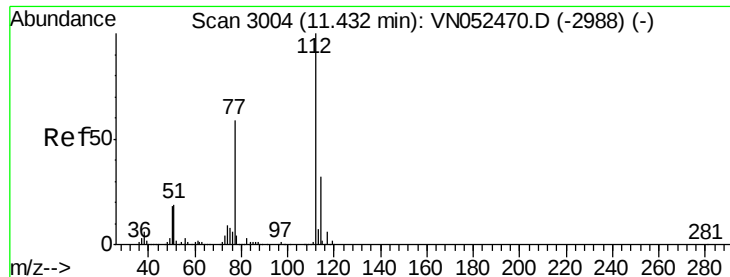
MMDadoda
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#64
Tetrachloroethene
Concen: 56.493 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN052789.D
Acq: 11 Dec 2018 8:31

Tgt Ion:164 Resp: 578605
Ion Ratio Lower Upper
164 100
166 130.2 101.0 151.4
129 91.8 73.8 110.6
131 87.1 71.2 106.8





#65

Chlorobenzene

Concen: 49.295 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. 0.00 min

Lab File: VN052789.D

Acq: 11 Dec 2018 8:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion:112 Resp: 1342743

Ion Ratio Lower Upper

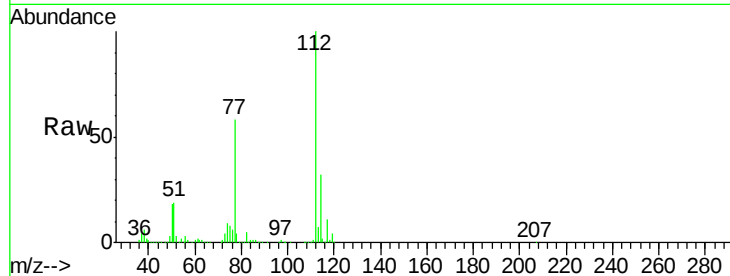
112 100

114 31.8 25.8 38.6

Manual Integrations
APPROVED

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Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V

800000

600000

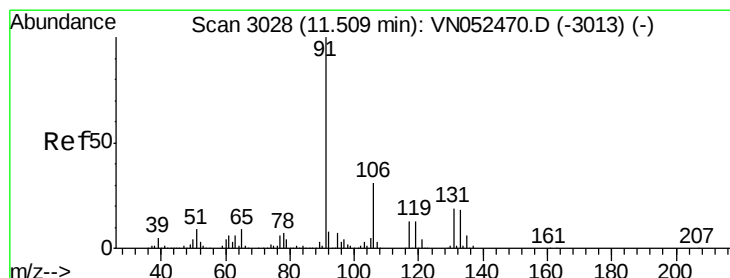
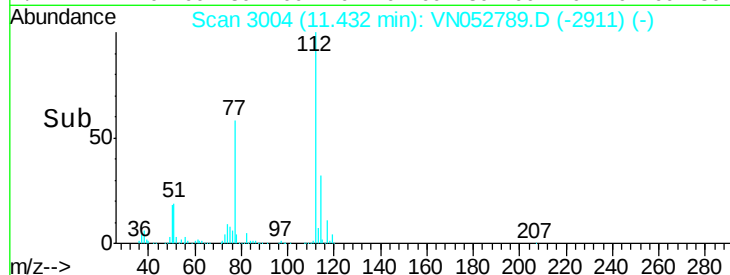
400000

200000

0

11.40 11.50

Time-->



#66

1,1,1,2-Tetrachloroethane

Concen: 51.383 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN052789.D

Acq: 11 Dec 2018 8:31

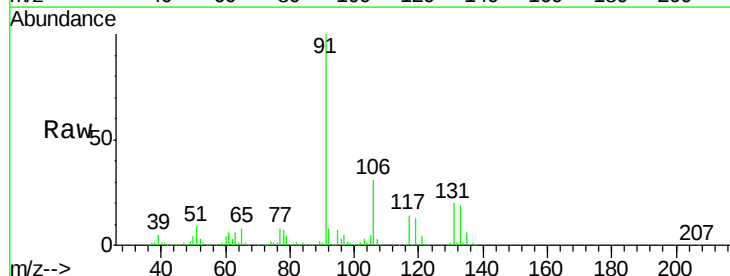
Tgt Ion:131 Resp: 486655

Ion Ratio Lower Upper

131 100

133 94.9 47.6 142.8

119 65.8 33.2 99.6



Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V

300000

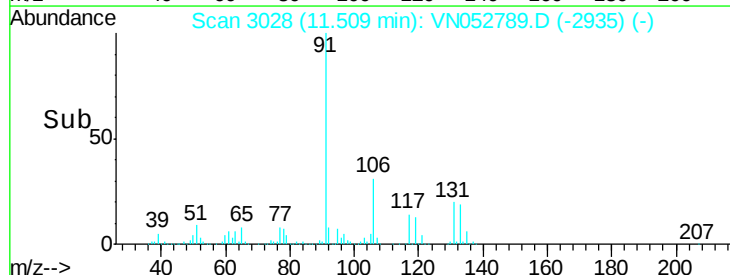
200000

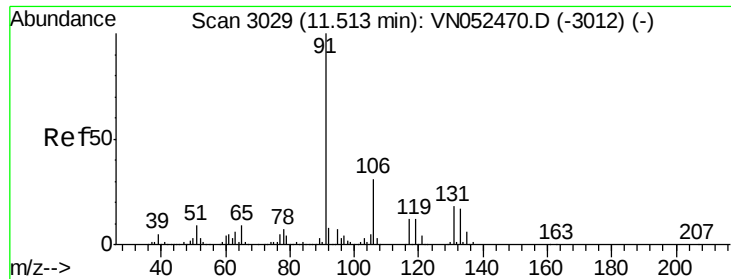
100000

0

11.45 11.50 11.55 11.60

Time-->





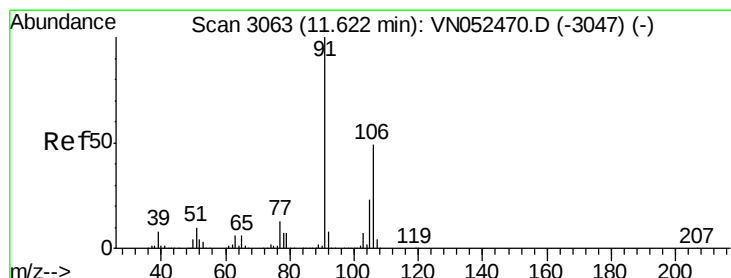
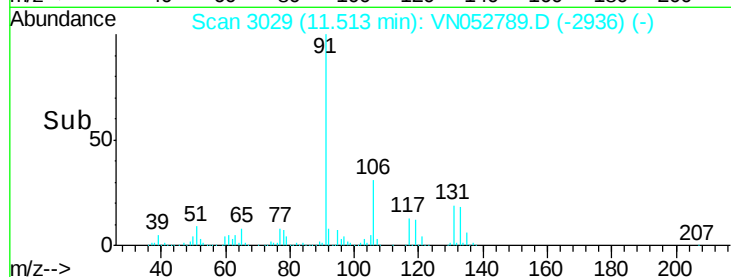
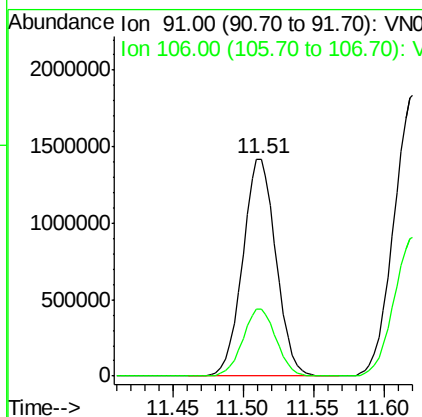
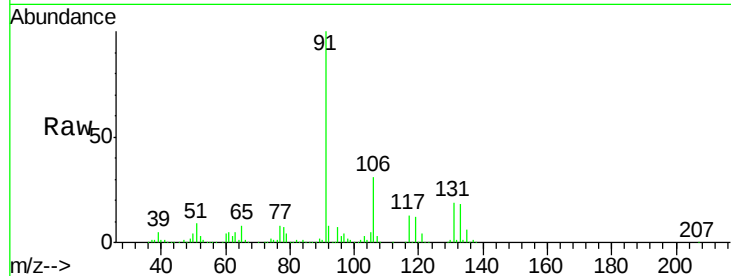
#67
Ethyl Benzene
Concen: 49.079 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. 0.00 min
Lab File: VN052789.D
Acq: 11 Dec 2018 8:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion: 91 Resp: 2341048
Ion Ratio Lower Upper
91 100
106 31.0 24.9 37.3

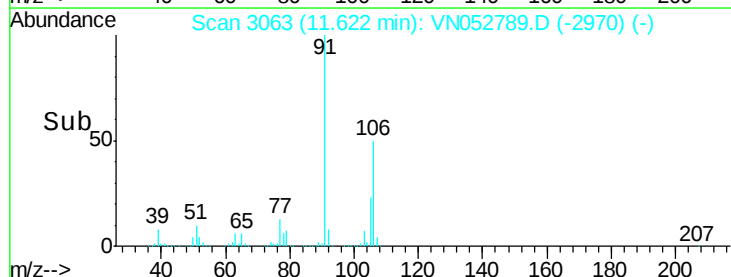
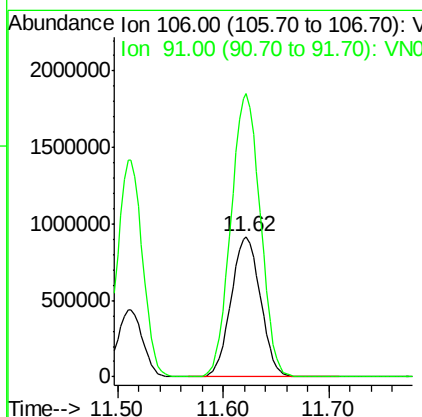
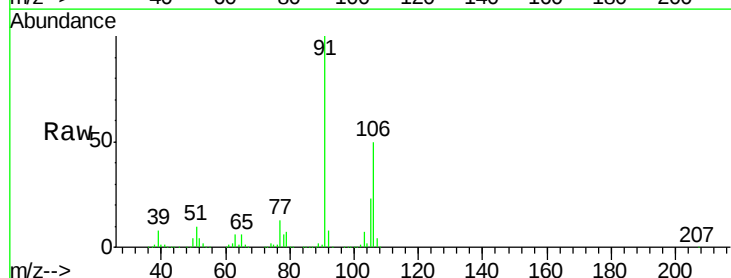
Manual Integrations
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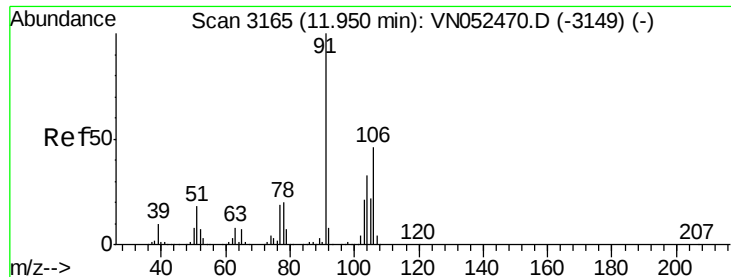
MMDadoda
12/11/2018 12:47:10 PM



#68
m/p-Xylenes
Concen: 99.142 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN052789.D
Acq: 11 Dec 2018 8:31

Tgt Ion: 106 Resp: 1760509
Ion Ratio Lower Upper
106 100
91 202.8 163.2 244.8





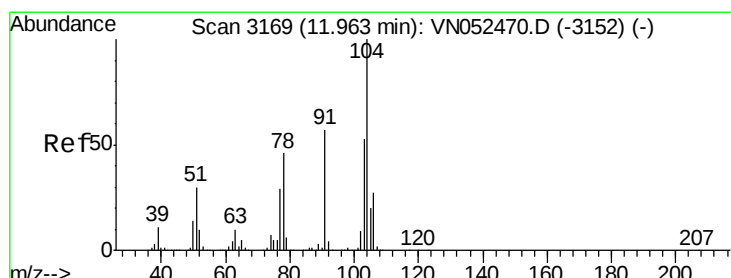
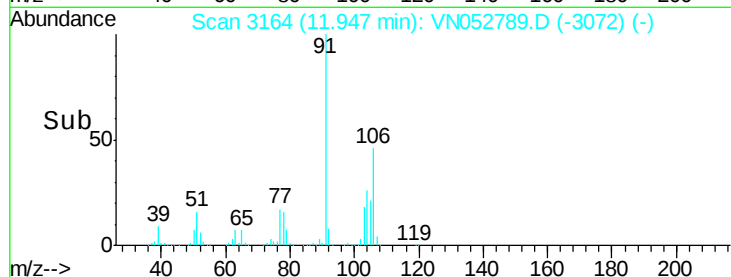
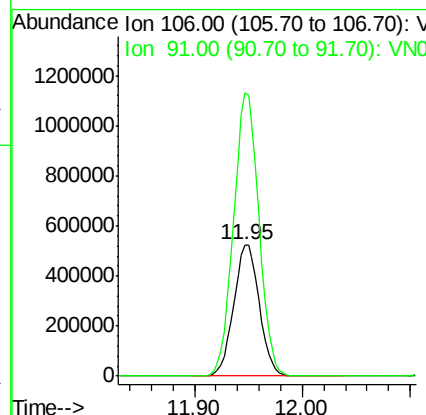
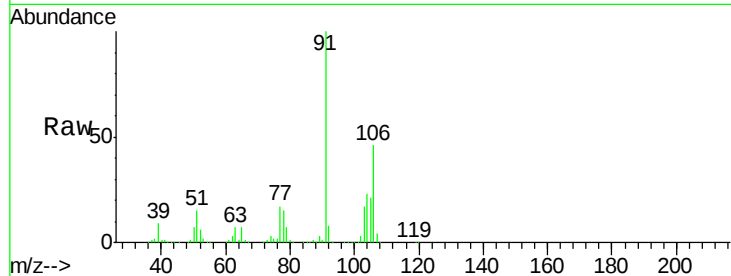
#69
o-Xylene
Concen: 50.270 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN052789.D
Acq: 11 Dec 2018 8:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion:106 Resp: 866867
Ion Ratio Lower Upper
106 100
91 214.1 107.7 323.1

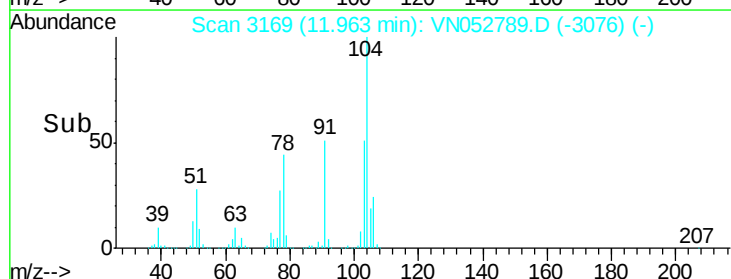
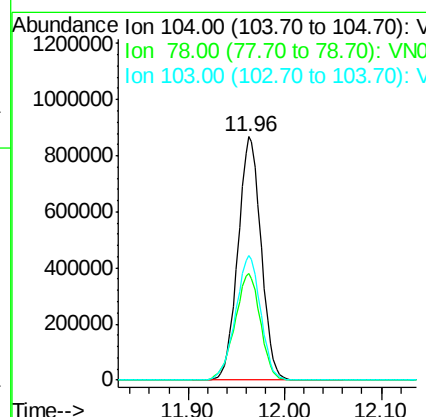
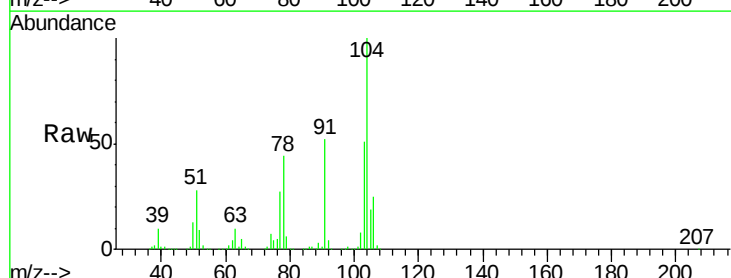
Manual Integrations
APPROVED

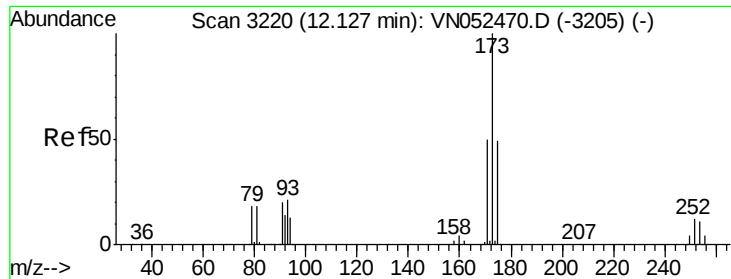
MMDadoda
12/11/2018 12:47:10 PM



#70
Styrene
Concen: 52.480 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN052789.D
Acq: 11 Dec 2018 8:31

Tgt Ion:104 Resp: 1441398
Ion Ratio Lower Upper
104 100
78 48.2 39.4 59.2
103 55.2 44.9 67.3





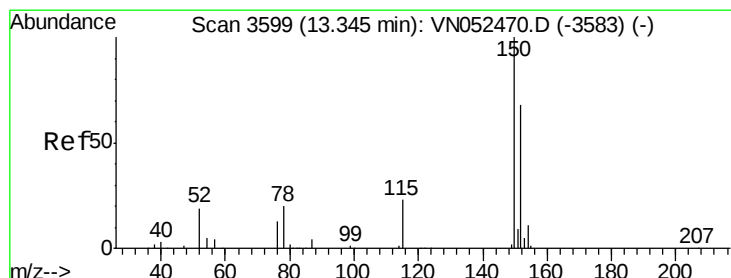
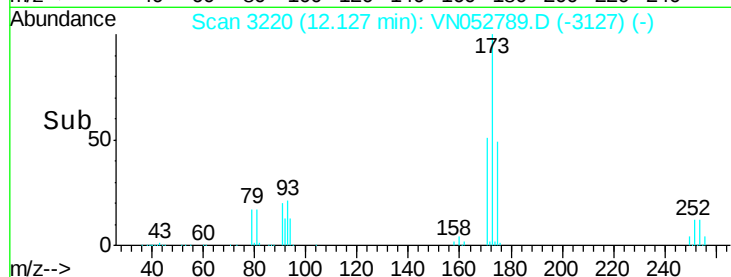
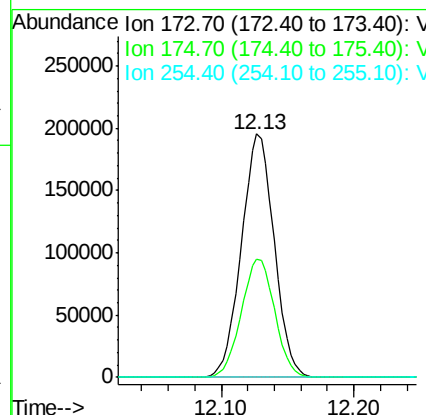
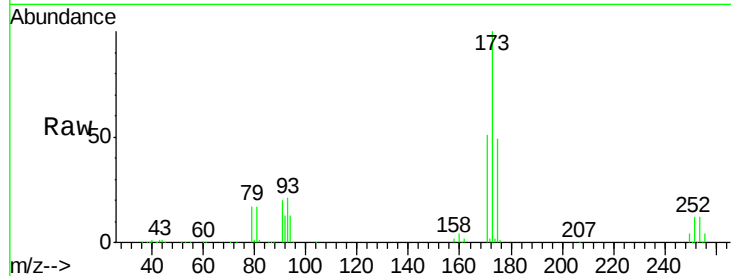
#71
Bromoform
Concen: 53.364 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN052789.D
Acq: 11 Dec 2018 8:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.6	24.4	73.2
254	0.2	0.1	0.1#

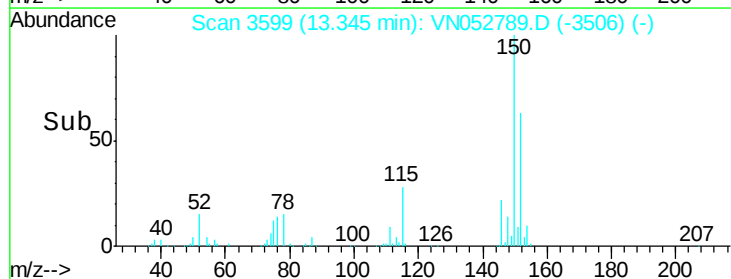
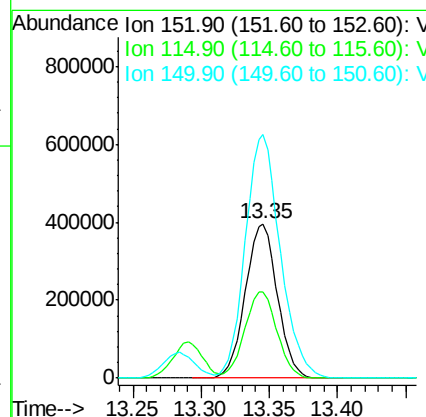
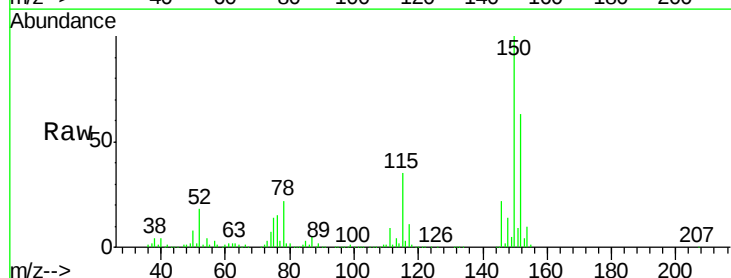
Manual Integrations
APPROVED

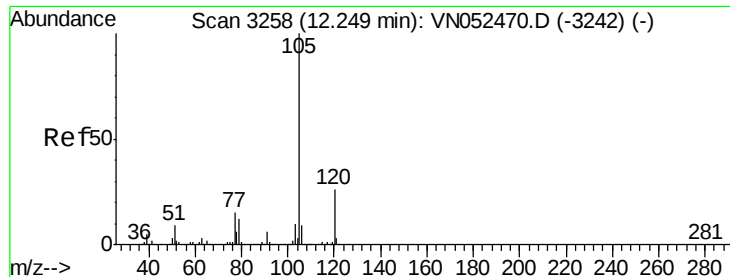
MMDadoda
12/11/2018 12:47:10 PM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN052789.D
Acq: 11 Dec 2018 8:31

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.6	28.4	85.2
150	172.3	0.0	346.0





#73

Isopropylbenzene

Concen: 45.984 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN052789.D

Acq: 11 Dec 2018 8:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 105 Resp: 2323922

Ion Ratio Lower Upper

105 100

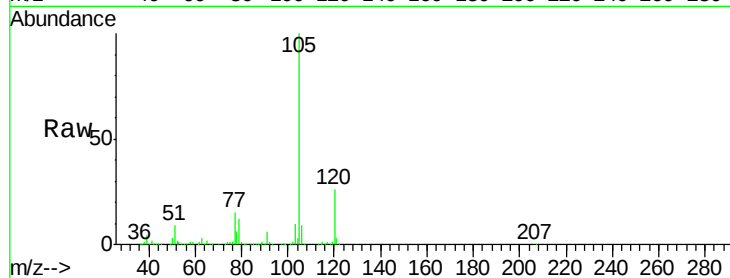
120 26.6 13.1 39.3

Manual Integrations

APPROVED

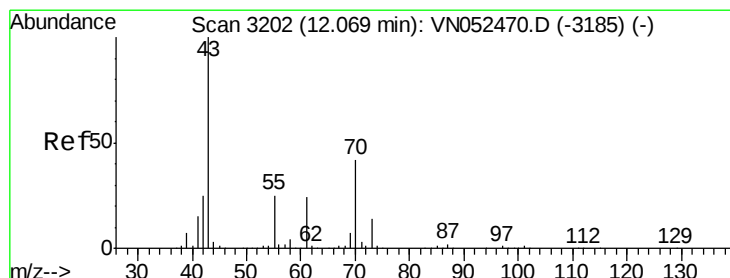
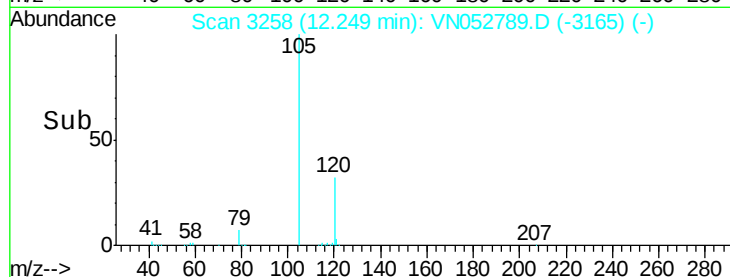
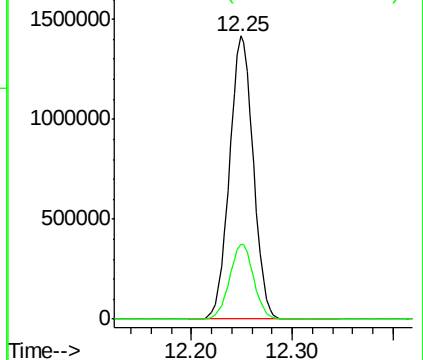
MMDadoda

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 52.255 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN052789.D

Acq: 11 Dec 2018 8:31

Tgt Ion: 43 Resp: 667190

Ion Ratio Lower Upper

43 100

70 43.5 33.8 50.8

55 25.2 20.0 30.0

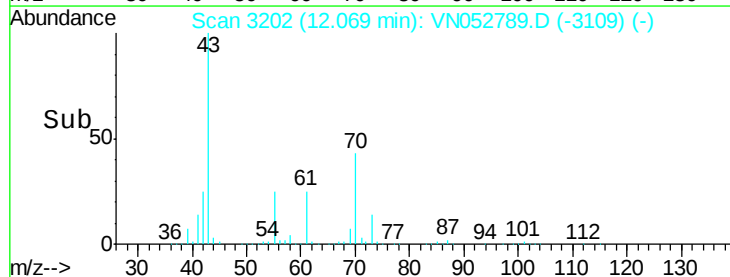
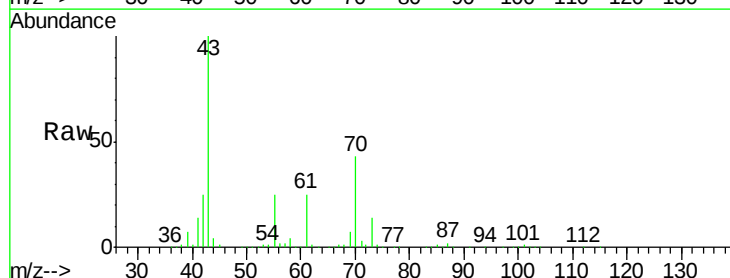
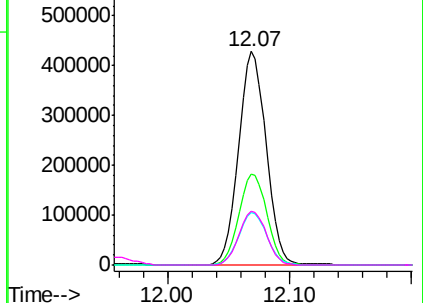
61 25.3 19.7 29.5

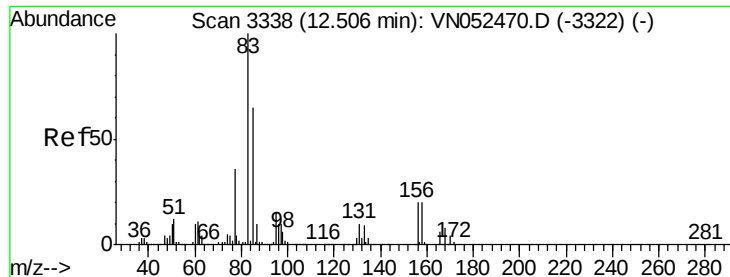
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: 45.079 ug/l

RT: 12.51 min Scan# 3338

Delta R.T. 0.00 min

Lab File: VN052789.D

Acq: 11 Dec 2018 8:31

Instrument :

MSVOA_N

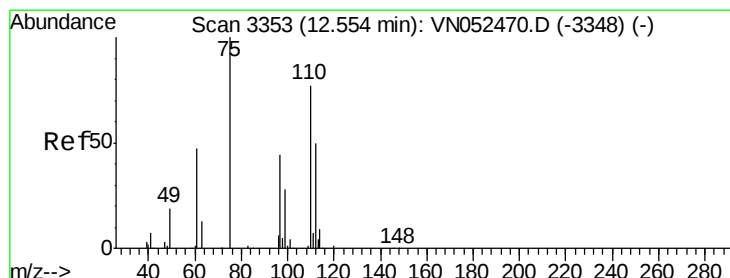
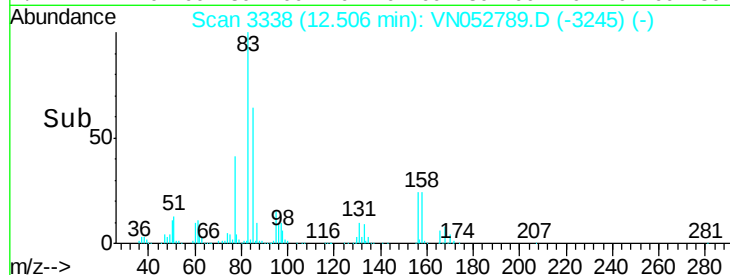
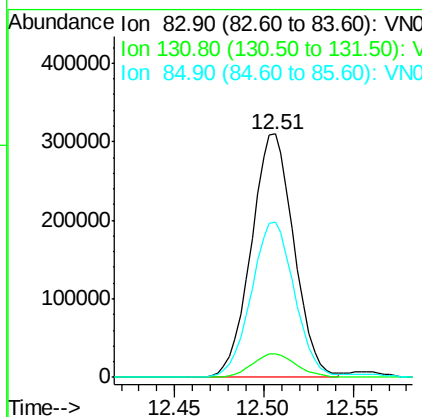
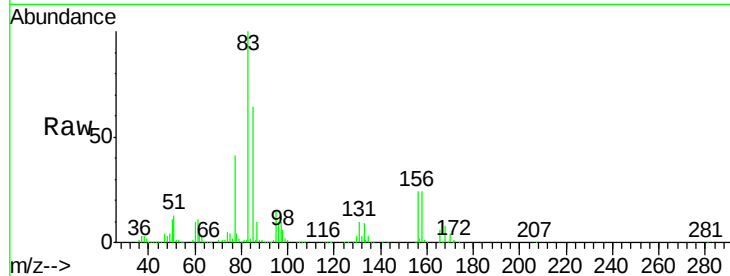
ClientSampleId :

VSTDCCC050EC

Tot Ion:	83	Resp:	518239
Ion Ratio	Lower	Upper	
83	100		
131	10.1	5.0	15.0
85	64.6	31.9	95.9

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 42.790 ug/l m

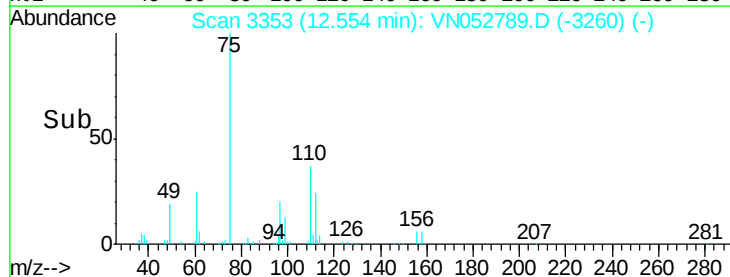
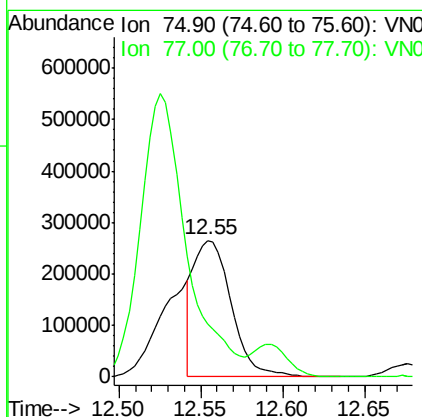
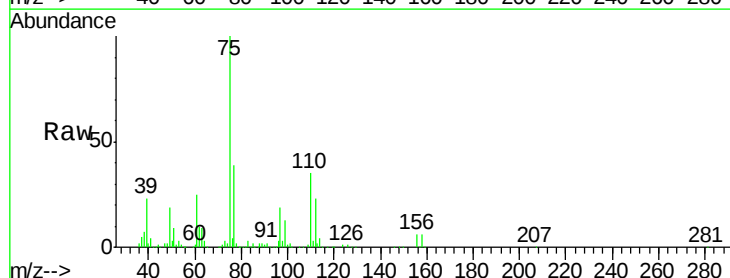
RT: 12.55 min Scan# 3353

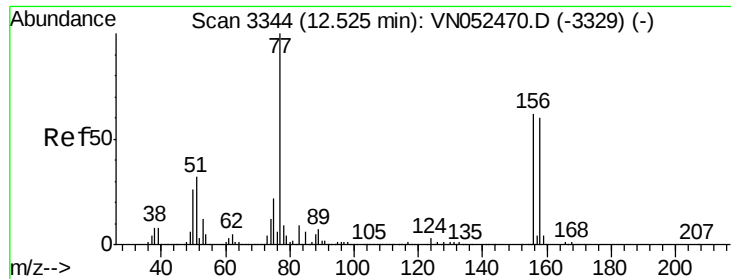
Delta R.T. 0.00 min

Lab File: VN052789.D

Acq: 11 Dec 2018 8:31

Tgt Ion:	75	Resp:	425044
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





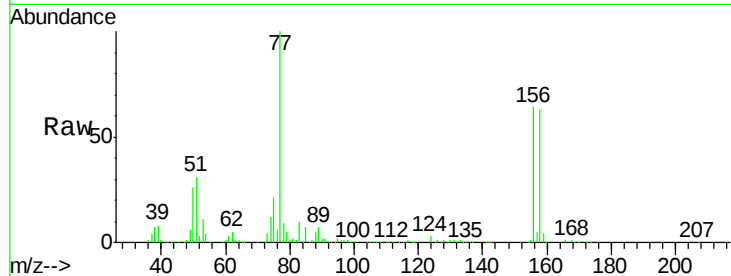
#77
Bromobenzene
Concen: 47.675 ug/l
RT: 12.53 min Scan# 3344
Delta R.T. 0.00 min
Lab File: VN052789.D
Acq: 11 Dec 2018 8:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
156	100		
77	181.4	93.5	280.4
158	97.8	48.3	144.9

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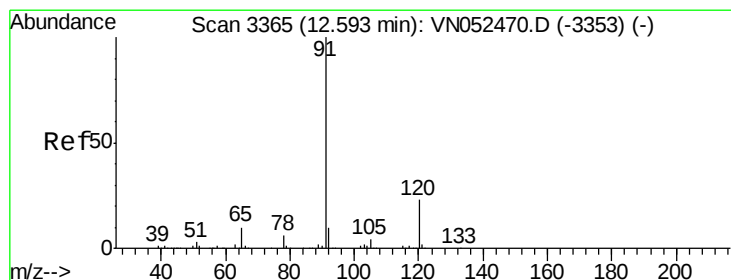
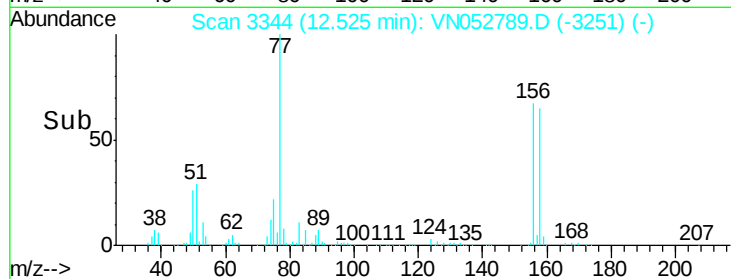
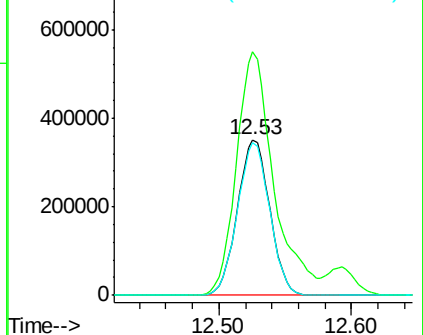
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Abundance Ion 155.80 (155.50 to 156.50): V

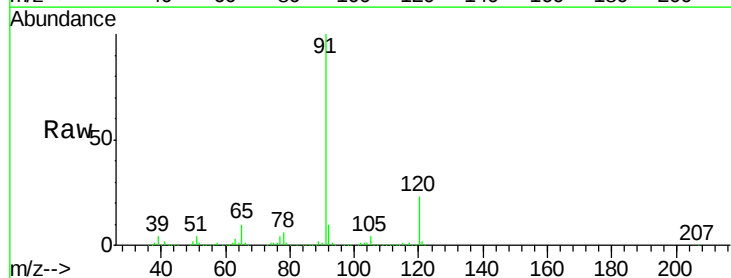
Ion 77.00 (76.70 to 77.70): VN

Ion 157.80 (157.50 to 158.50): V



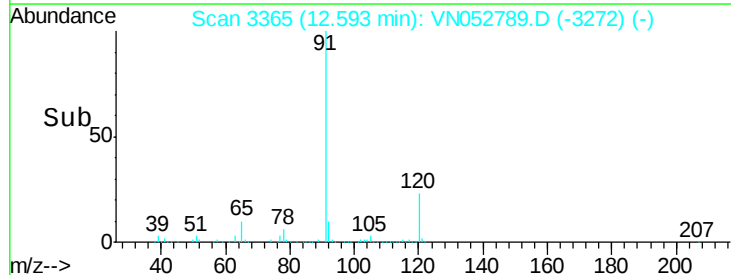
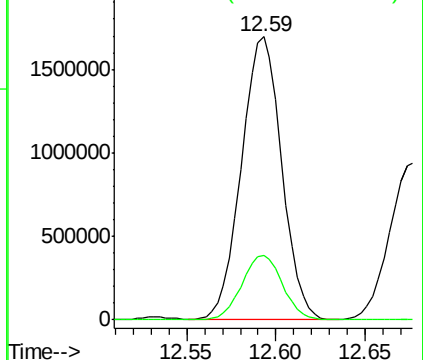
#78
n-propylbenzene
Concen: 46.226 ug/l
RT: 12.59 min Scan# 3365
Delta R.T. 0.00 min
Lab File: VN052789.D
Acq: 11 Dec 2018 8:31

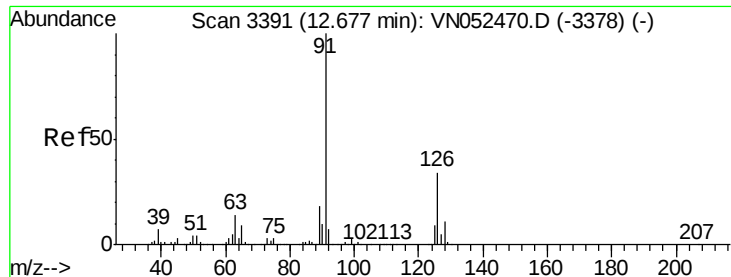
Tgt Ion	Ratio	Lower	Upper
91	100		
120	23.1	11.3	33.9



Abundance Ion 91.00 (90.70 to 91.70): VN

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 45.569 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN052789.D

Acq: 11 Dec 2018 8:31

Instrument :

MSVOA_N

ClientSampled :

VSTDCCC050EC

Tot Ion: 91 Resp: 1557986

Ion Ratio Lower Upper

91 100

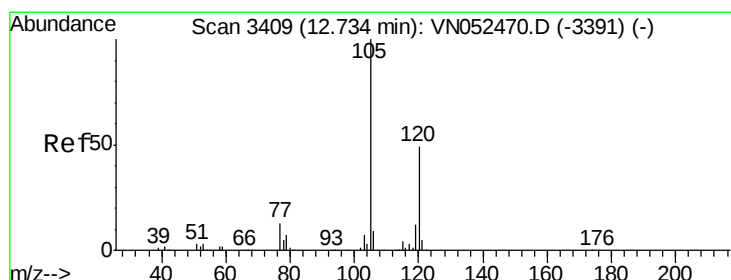
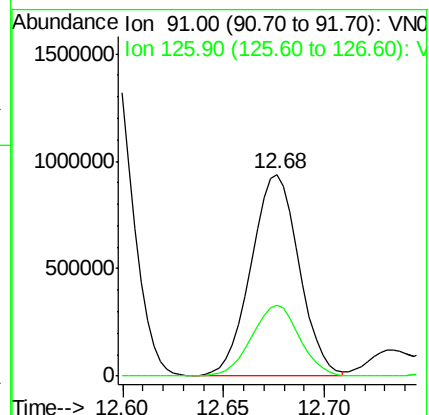
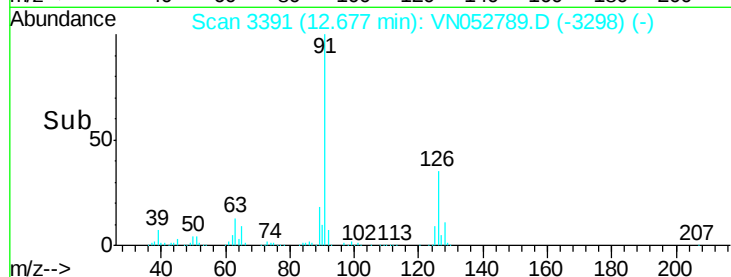
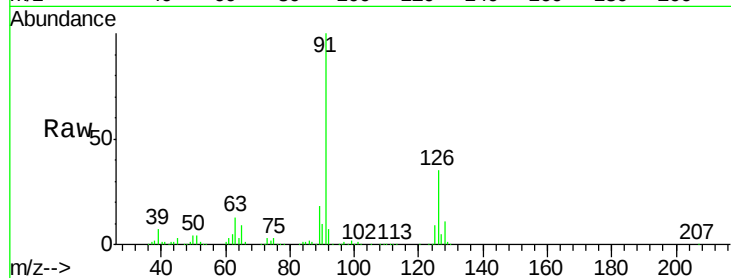
126 35.2 17.2 51.6

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#80

1,3,5-Trimethylbenzene

Concen: 46.702 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN052789.D

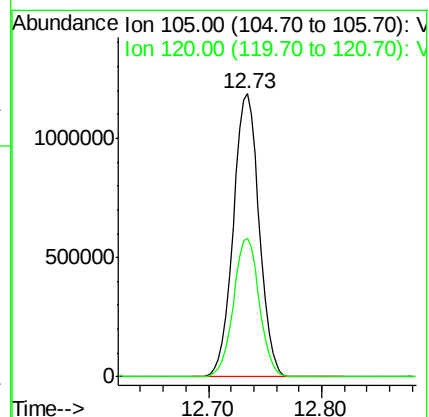
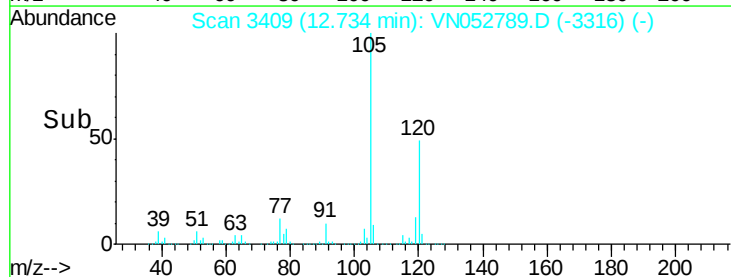
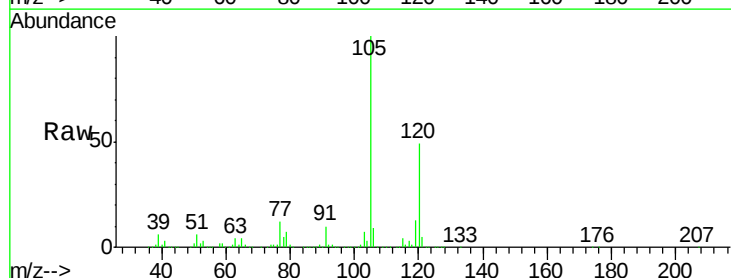
Acq: 11 Dec 2018 8:31

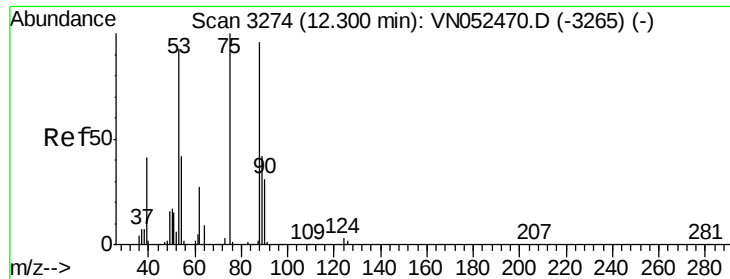
Tgt Ion: 105 Resp: 1882378

Ion Ratio Lower Upper

105 100

120 48.9 24.3 73.0





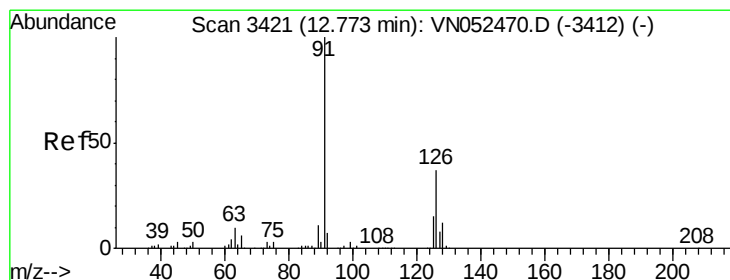
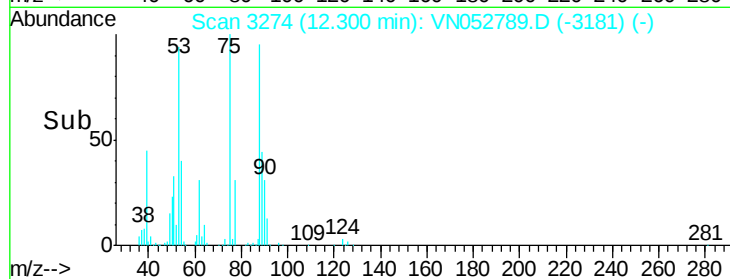
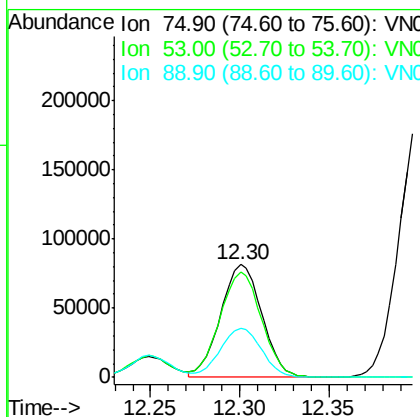
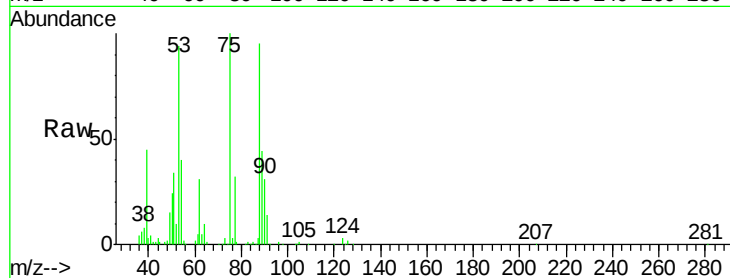
#81
trans-1,4-Dichloro-2-butene
Concen: 44.274 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. 0.00 min
Lab File: VN052789.D
Acq: 11 Dec 2018 8:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
75	100		
53	94.5	77.4	116.0
89	43.7	35.4	53.2

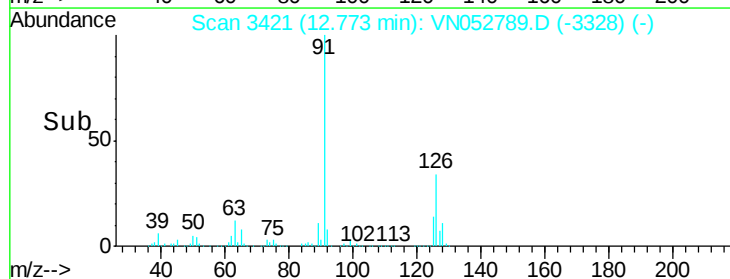
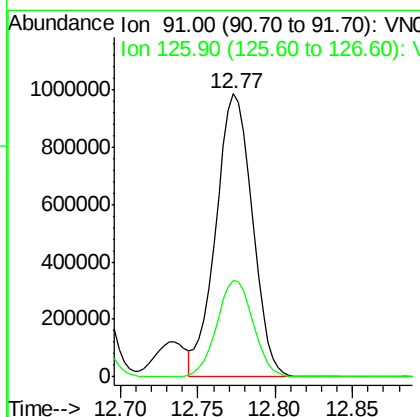
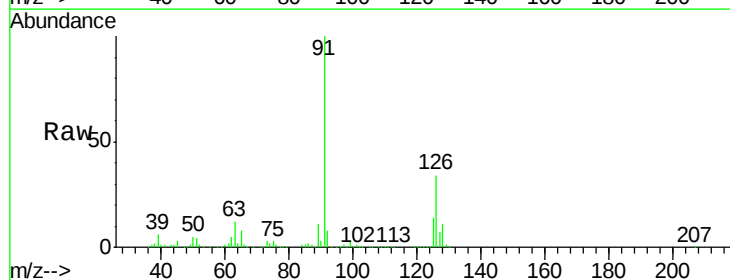
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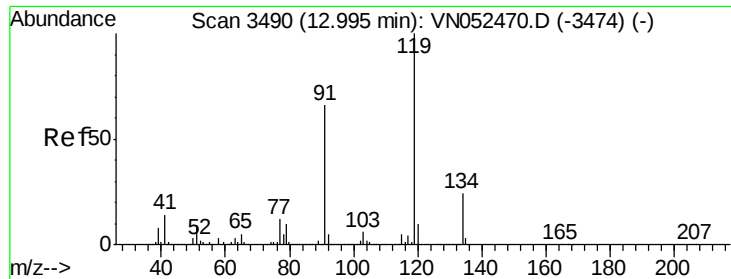
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#82
4-Chlorotoluene
Concen: 46.803 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. 0.00 min
Lab File: VN052789.D
Acq: 11 Dec 2018 8:31

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.1	16.9	50.6





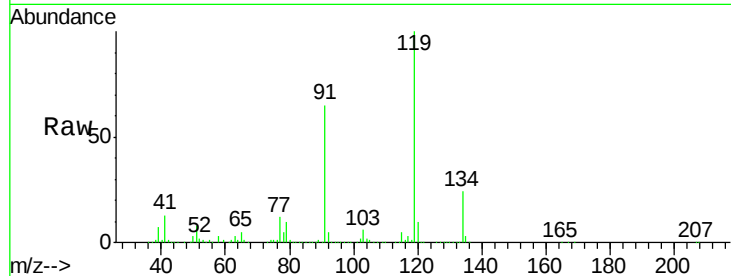
#83
tert-Butylbenzene
Concen: 46.496 ug/l
RT: 12.99 min Scan# 3490
Delta R.T. 0.00 min
Lab File: VN052789.D
Acq: 11 Dec 2018 8:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

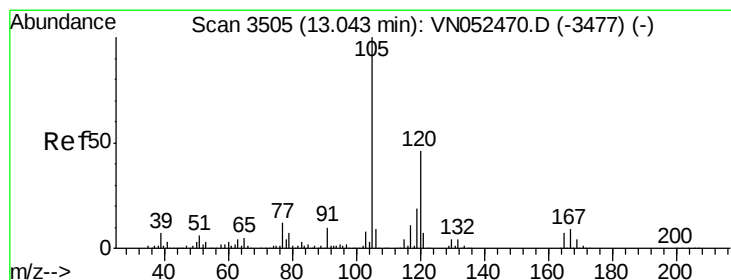
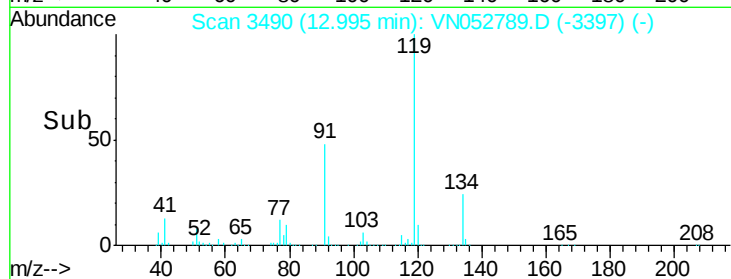
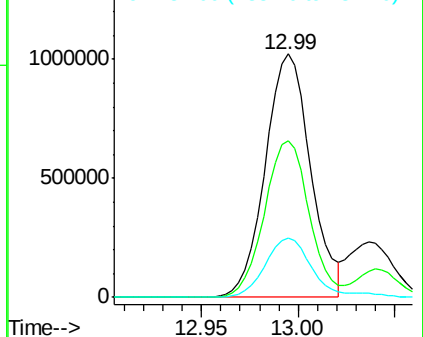
Tot Ion	Ratio	Lower	Upper
119	100		
91	63.8	32.3	96.9
134	25.7	13.0	38.9

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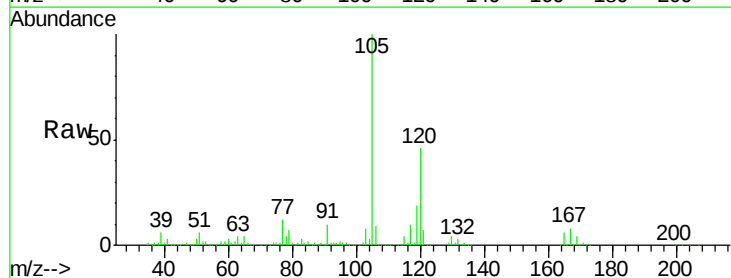


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): V
Ion 134.00 (133.70 to 134.70): V

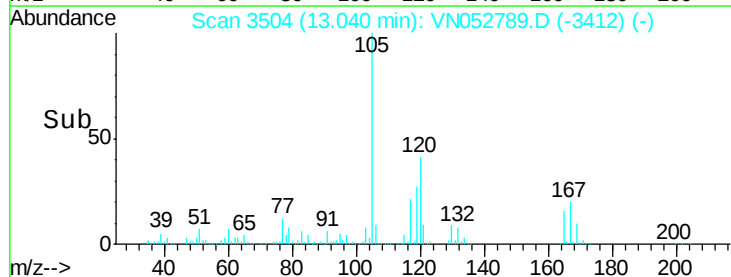
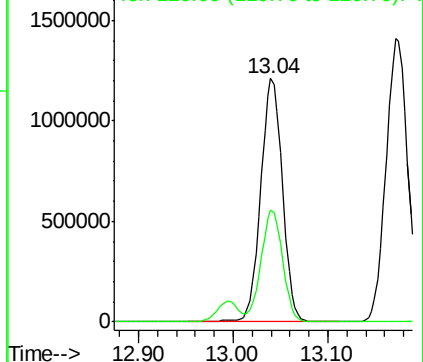


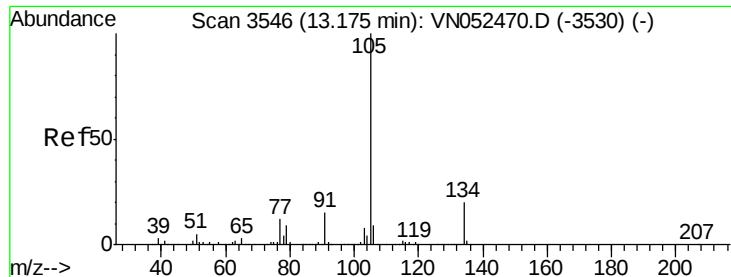
#84
1,2,4-Trimethylbenzene
Concen: 47.579 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. -0.00 min
Lab File: VN052789.D
Acq: 11 Dec 2018 8:31

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.9	22.8	68.4



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 46.166 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. -0.00 min

Lab File: VN052789.D

Acq: 11 Dec 2018 8:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion:105 Resp: 2259428

Ion Ratio Lower Upper

105 100

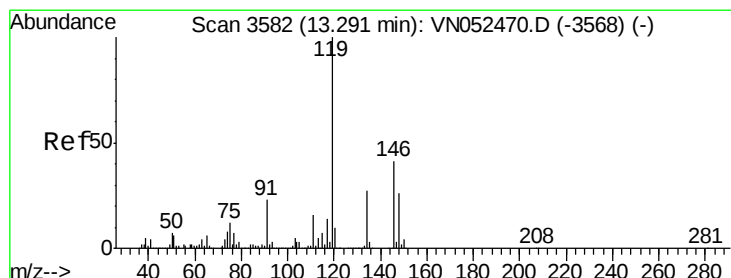
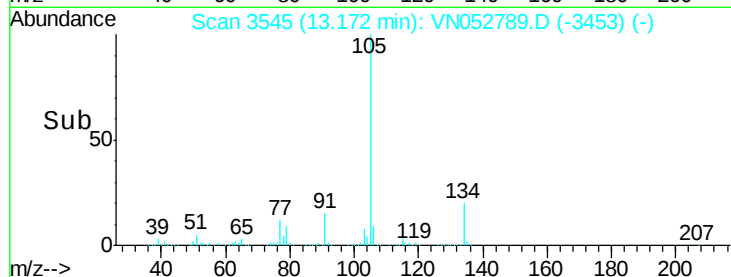
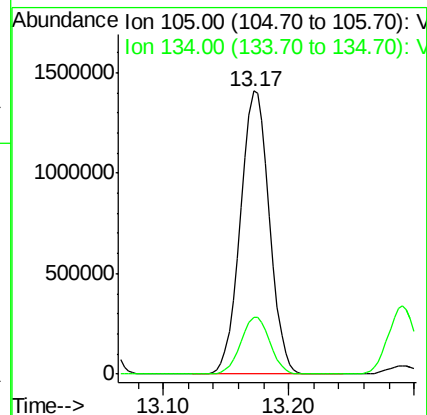
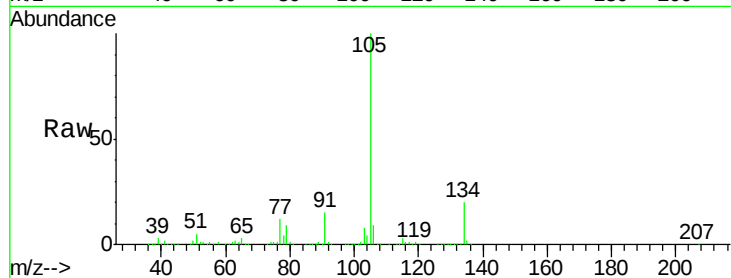
134 20.2 9.9 29.7

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#86

p-Isopropyltoluene

Concen: 47.109 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN052789.D

Acq: 11 Dec 2018 8:31

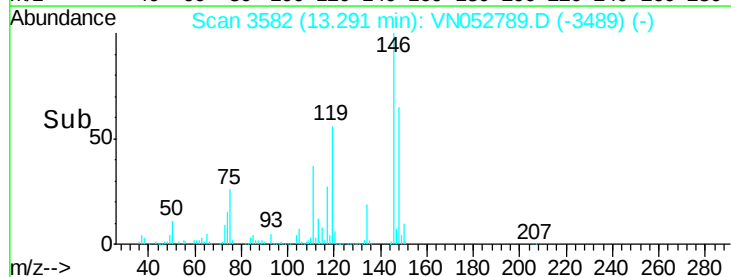
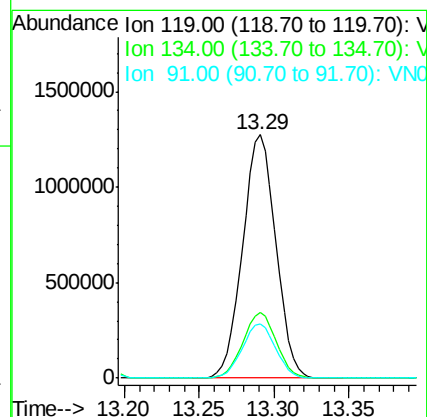
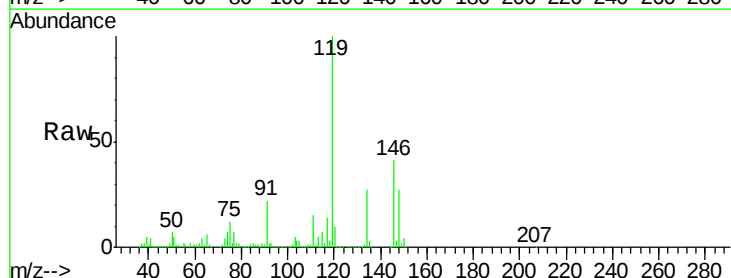
Tgt Ion:119 Resp: 1963771

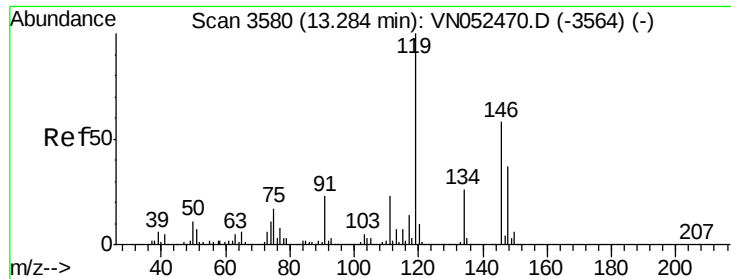
Ion Ratio Lower Upper

119 100

134 27.0 13.4 40.2

91 22.5 11.4 34.2





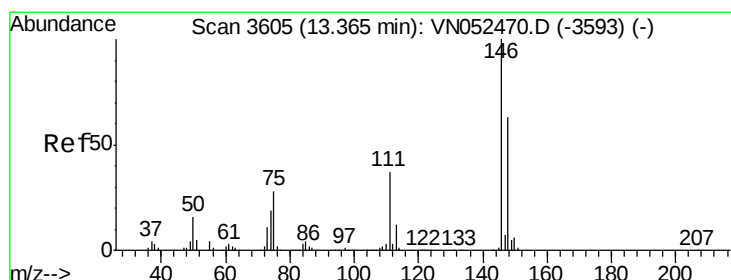
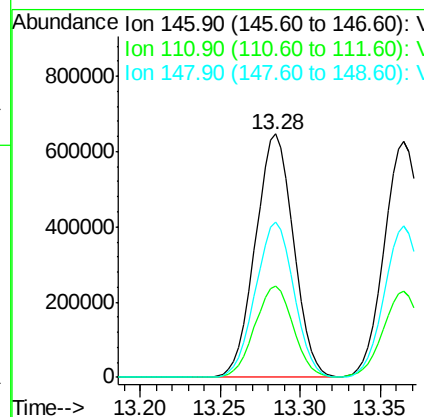
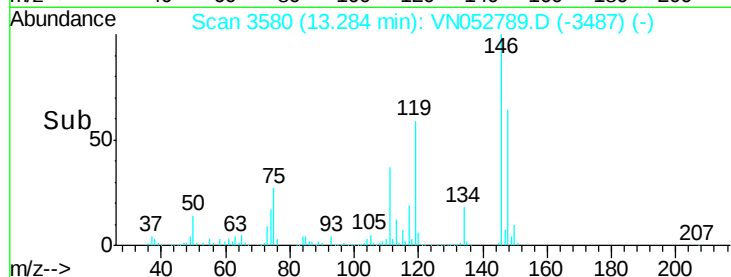
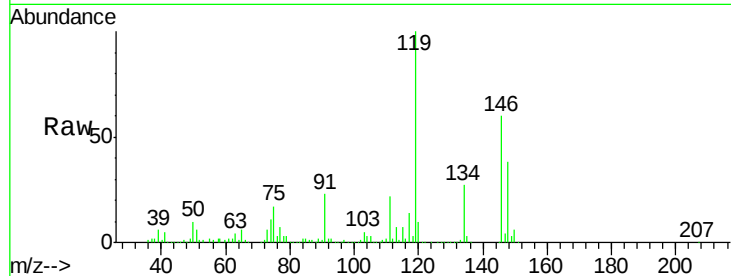
#87
 1,3-Dichlorobenzene
 Concen: 48.416 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN052789.D
 Acq: 11 Dec 2018 8:31

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion:146 Resp: 1057910
 Ion Ratio Lower Upper
 146 100
 111 37.6 19.4 58.4
 148 64.4 31.8 95.4

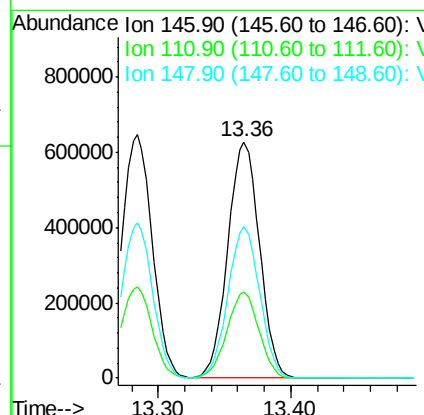
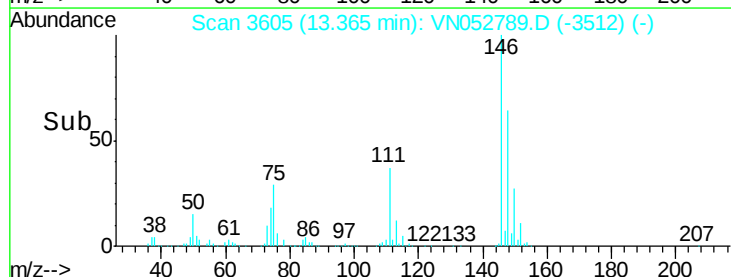
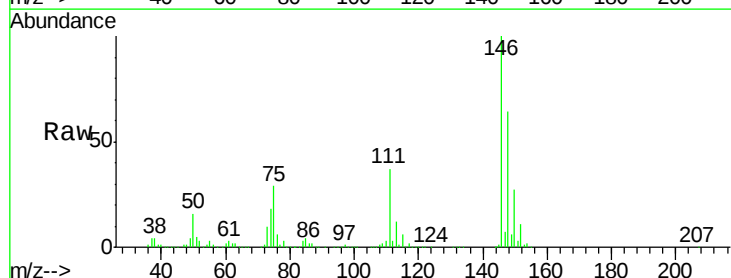
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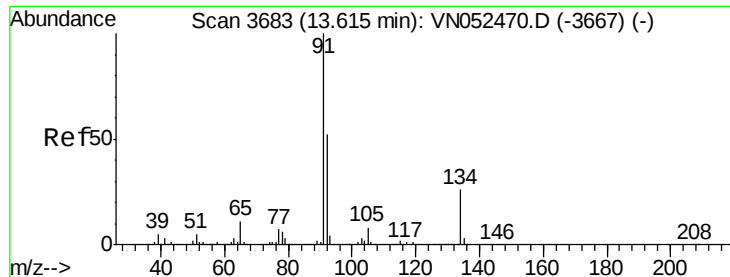
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#88
 1,4-Dichlorobenzene
 Concen: 48.435 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN052789.D
 Acq: 11 Dec 2018 8:31

Tgt Ion:146 Resp: 1042467
 Ion Ratio Lower Upper
 146 100
 111 36.7 18.6 56.0
 148 64.0 31.9 95.9





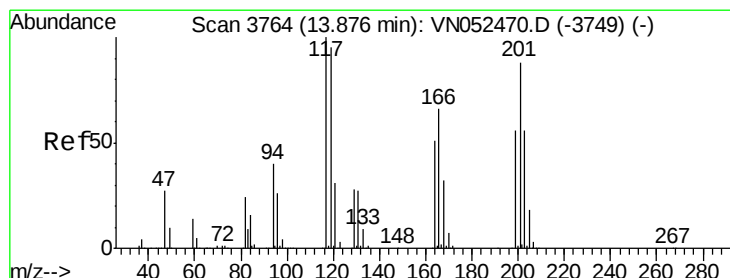
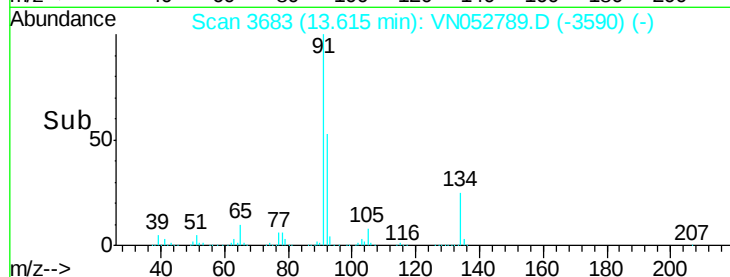
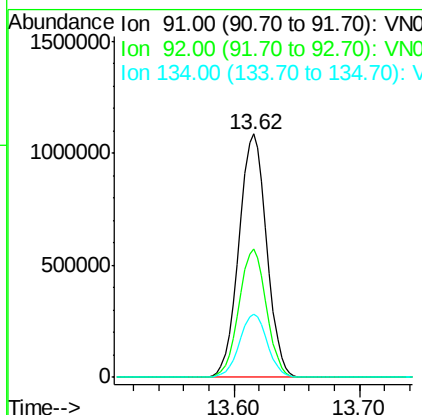
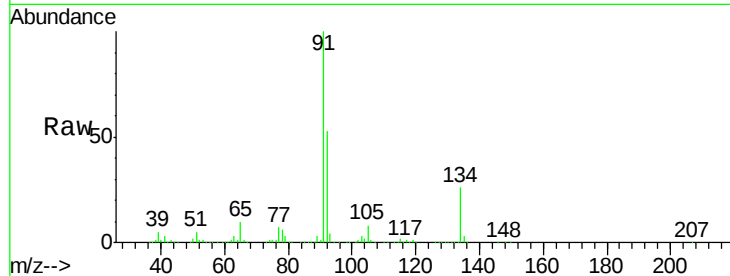
#89
n-Butylbenzene
Concen: 48.018 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN052789.D
Acq: 11 Dec 2018 8:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion: 91 Resp: 1664679
Ion Ratio Lower Upper
91 100
92 52.3 26.1 78.3
134 26.2 13.0 38.9

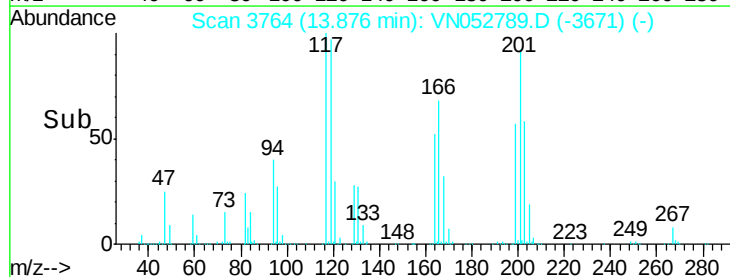
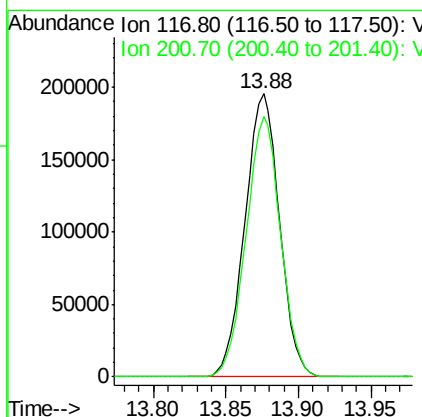
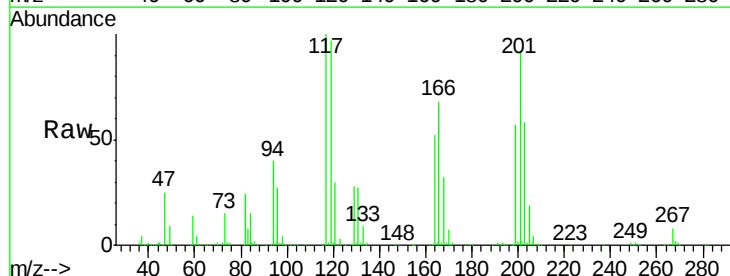
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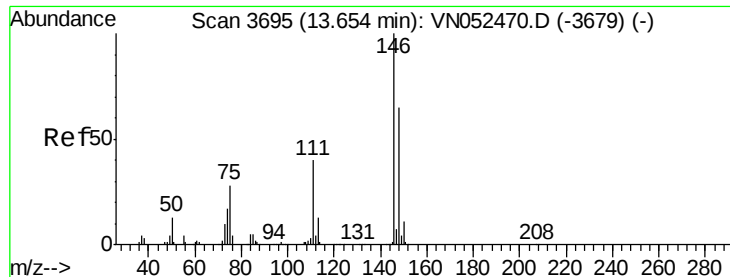
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#90
Hexachloroethane
Concen: 45.980 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. 0.00 min
Lab File: VN052789.D
Acq: 11 Dec 2018 8:31

Tgt Ion: 117 Resp: 324541
Ion Ratio Lower Upper
117 100
201 91.7 43.6 130.9





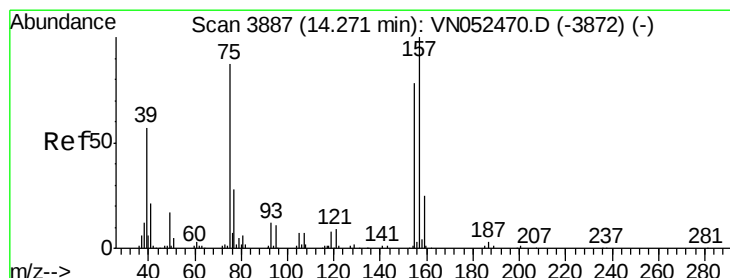
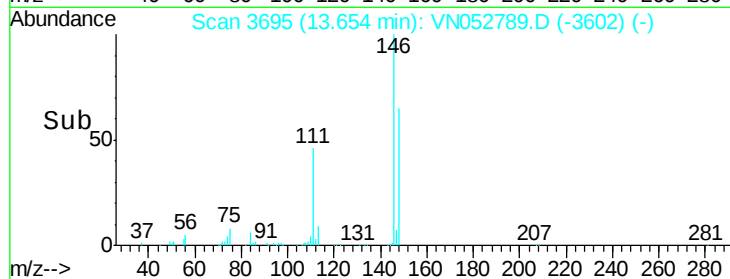
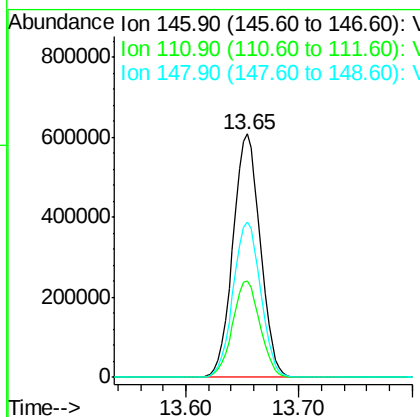
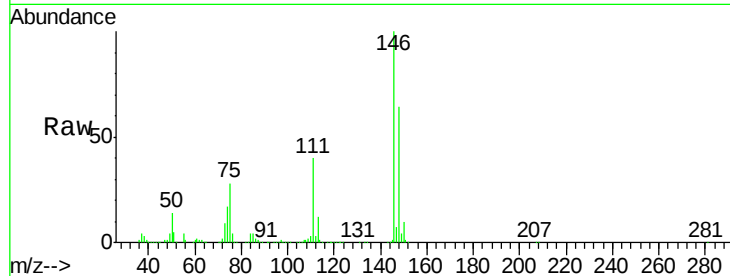
#91
 1,2-Dichlorobenzene
 Concen: 48.921 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN052789.D
 Acq: 11 Dec 2018 8:31

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.6	20.0	60.0
148	64.4	32.0	96.2

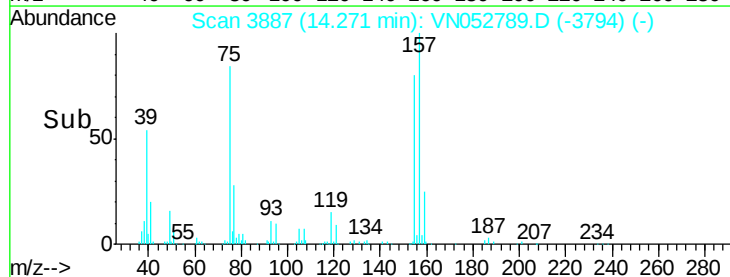
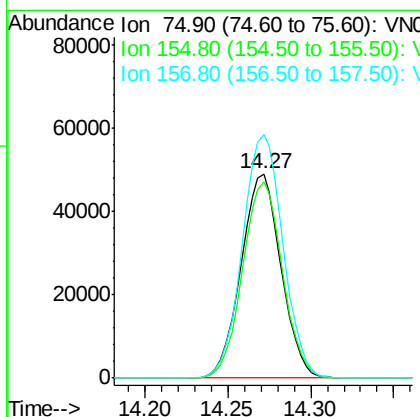
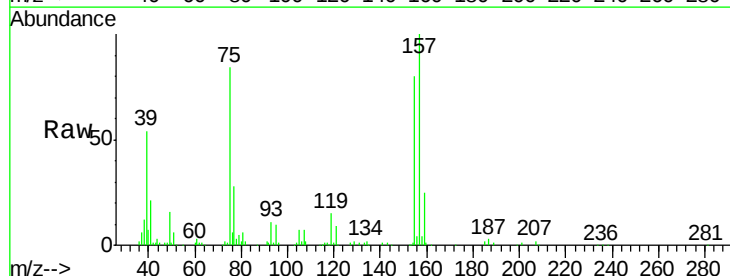
Manual Integrations
 APPROVED

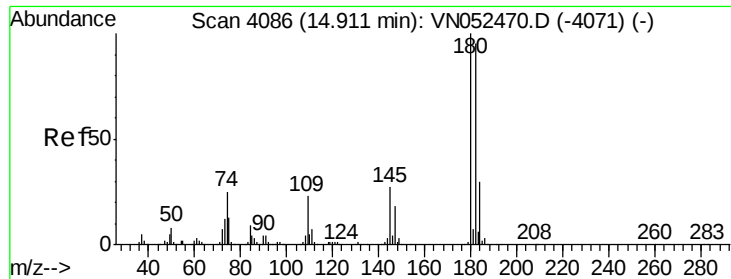
MMDadoda
 12/11/2018 12:47:10 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 49.885 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. 0.00 min
 Lab File: VN052789.D
 Acq: 11 Dec 2018 8:31

Tgt Ion	Ratio	Lower	Upper
75	100		
155	95.7	45.3	135.9
157	121.0	58.1	174.2





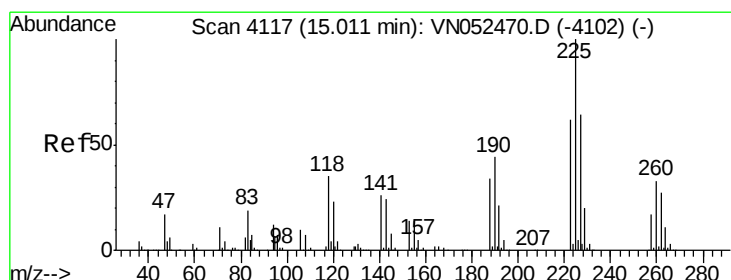
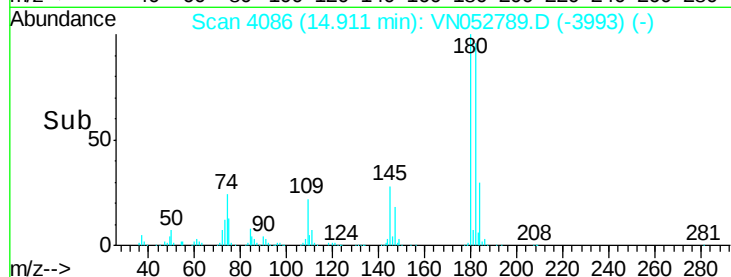
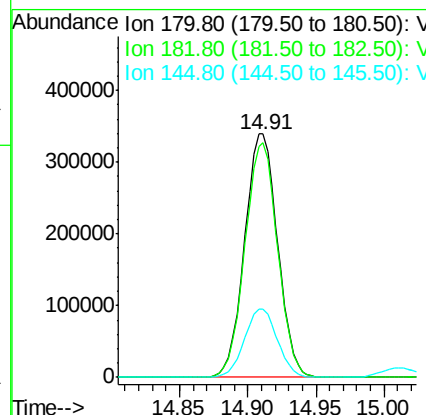
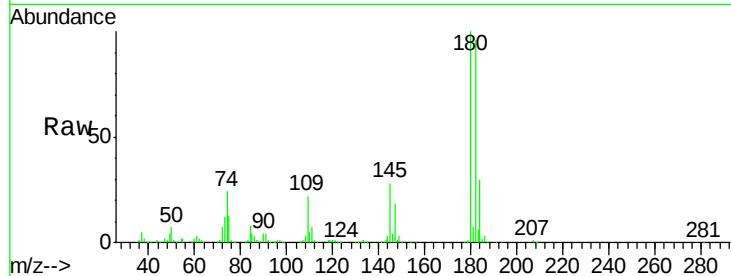
#93
 1,2,4-Trichlorobenzene
 Concen: 49.706 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN052789.D
 Acq: 11 Dec 2018 8:31

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	95.5	47.8	143.4	
145	28.2	14.1	42.3	

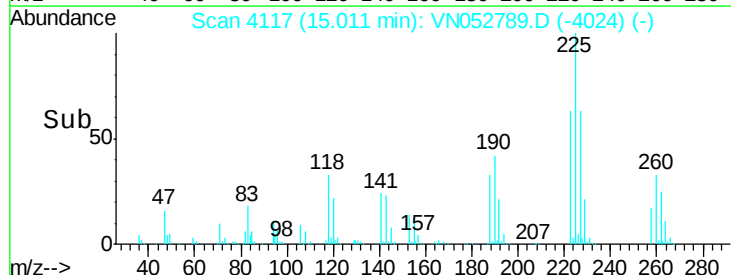
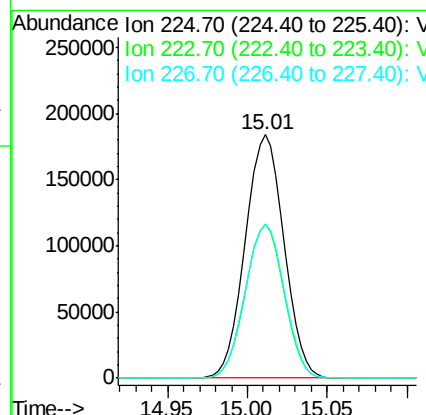
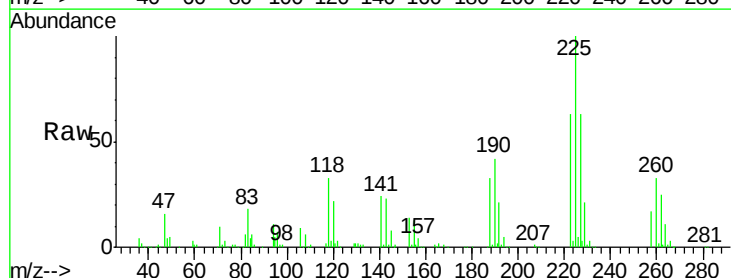
Manual Integrations
 APPROVED

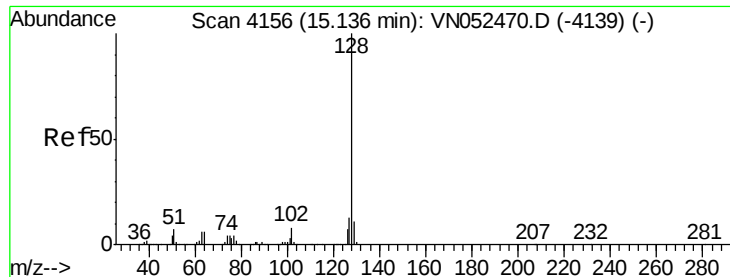
MMDadoda
 12/11/2018 12:47:10 PM



#94
 Hexachlorobutadiene
 Concen: 45.222 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN052789.D
 Acq: 11 Dec 2018 8:31

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	62.9	31.4	94.2	
227	64.0	32.5	97.4	





#95

Naphthalene

Concen: 49.810 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN052789.D

Acq: 11 Dec 2018 8:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion:128 Resp: 1207666

Ion Ratio Lower Upper

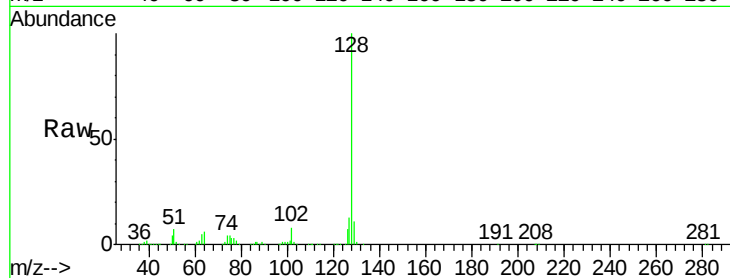
128 100

127 12.6 10.2 15.2

129 10.7 8.7 13.1

Manual Integrations
APPROVED

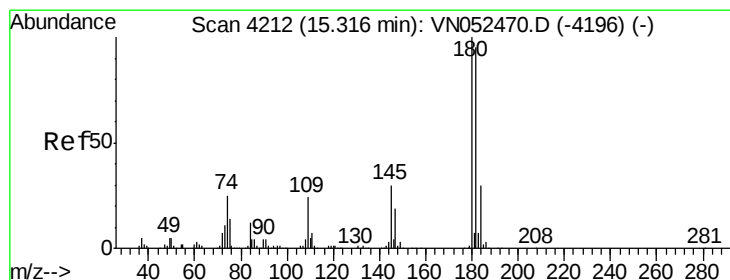
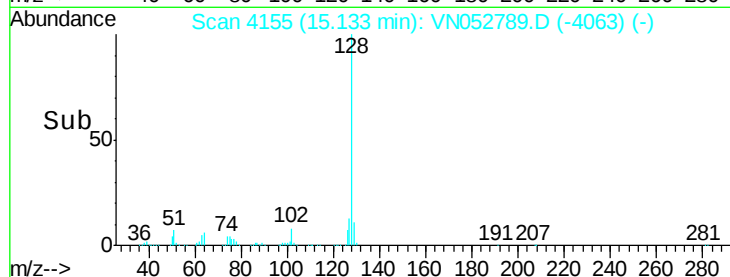
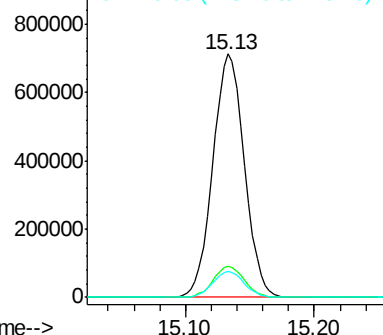
MMDadoda
12/11/2018 12:47:10 PM



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 49.873 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN052789.D

Acq: 11 Dec 2018 8:31

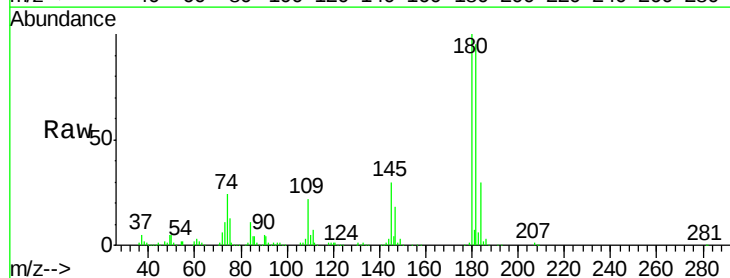
Tgt Ion:180 Resp: 524316

Ion Ratio Lower Upper

180 100

182 94.8 47.8 143.3

145 29.9 15.2 45.5



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

