

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN011019\
 Data File : VN053332.D
 Acq On : 10 Jan 2019 9:30
 Operator : MD\SY
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 1/11/2019 10:11:34 AM

Quant Time: Jan 11 06:06:18 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N010519W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jan 07 09:34:27 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	904681	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1370958	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1227814	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	583536	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	446958	47.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.98%	
35) Dibromofluoromethane	7.59	113	393390	50.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.82%	
50) Toluene-d8	10.09	98	1617798	48.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.10%	
62) 4-Bromofluorobenzene	12.40	95	570181	48.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.76%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	392602	49.225	ug/l	100
3) Chloromethane	2.06	50	523703	47.020	ug/l	99
4) Vinyl Chloride	2.19	62	513396	48.294	ug/l	100
5) Bromomethane	2.56	94	335978	48.366	ug/l	98
6) Chloroethane	2.71	64	308801	48.126	ug/l	99
7) Trichlorofluoromethane	3.02	101	675824	49.081	ug/l	99
8) Diethyl Ether	3.41	74	267010	49.473	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	3.76	101	426045	48.820	ug/l	99
10) Methyl Iodide	3.96	142	654149	53.475	ug/l	99
11) Tert butyl alcohol	4.78	59	128086	226.255	ug/l	100
12) 1,1-Dichloroethene	3.74	96	414550	49.110	ug/l	98
13) Acrolein	3.61	56	165108	231.961	ug/l	99
14) Allyl chloride	4.33	41	693307	50.959	ug/l	96
15) Acrylonitrile	4.99	53	816051	241.473	ug/l	99
16) Acetone	3.82	43	598587	264.381	ug/l	97
17) Carbon Disulfide	4.06	76	1199612	46.095	ug/l	99
18) Methyl Acetate	4.32	43	385664	45.275	ug/l	100
19) Methyl tert-butyl Ether	5.05	73	1175851	49.633	ug/l	99
20) Methylene Chloride	4.55	84	479476	47.431	ug/l	98
21) trans-1,2-Dichloroethene	5.05	96	444415	49.033	ug/l	99
22) Diisopropyl ether	5.95	45	1466141	50.023	ug/l	96
23) Vinyl Acetate	5.90	43	4650675	252.180	ug/l	100
24) 1,1-Dichloroethane	5.85	63	838909	49.627	ug/l	100
25) 2-Butanone	6.83	43	938452	243.034	ug/l	99
26) 2,2-Dichloropropane	6.83	77	637296	51.574	ug/l	100
27) cis-1,2-Dichloroethene	6.83	96	513973	49.658	ug/l	99
28) Bromochloromethane	7.20	49	351769	48.832	ug/l	98
29) Tetrahydrofuran	7.21	42	596109	233.936	ug/l	99
30) Chloroform	7.37	83	820682	49.325	ug/l	99
31) Cyclohexane	7.66	56	774744	48.222	ug/l	99
32) 1,1,1-Trichloroethane	7.57	97	688493	49.657	ug/l	100
36) 1,1-Dichloropropene	7.79	75	635720	49.670	ug/l	99
37) Ethyl Acetate	6.93	43	405353	48.623	ug/l	99
38) Carbon Tetrachloride	7.78	117	597322	50.563	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	767342	51.751	ug/l	99
40) Benzene	8.04	78	1947893	49.824	ug/l	100
41) Methacrylonitrile	7.17	41	217345	41.993	ug/l #	100
42) 1,2-Dichloroethane	8.12	62	572645	49.380	ug/l	100
43) Isopropyl Acetate	8.16	43	732099	44.640	ug/l	98
44) Trichloroethene	8.84	130	536183	49.947	ug/l	99
45) 1,2-Dichloropropane	9.12	63	513889	50.117	ug/l	100
46) Dibromomethane	9.21	93	297046	49.684	ug/l	100
47) Bromodichloromethane	9.40	83	633195	50.822	ug/l	99
48) Methyl methacrylate	9.20	41	368196	49.417	ug/l	100
49) 1,4-Dioxane	9.20	88	73922	931.206	ug/l	99
51) 4-Methyl-2-Pentanone	9.99	43	2039399	247.279	ug/l	100
52) Toluene	10.16	92	1205916	50.278	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	657155	51.560	ug/l	100
54) cis-1,3-Dichloropropene	9.84	75	762489	51.770	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	435533	49.385	ug/l	99
56) Ethyl methacrylate	10.43	69	587351	51.249	ug/l	100
57) 1,3-Dichloropropane	10.71	76	741455	50.274	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.69	63	1418659	228.968	ug/l	100
59) 2-Hexanone	10.75	43	1443476	255.448	ug/l	100
60) Dibromochloromethane	10.90	129	485290	51.018	ug/l	99
61) 1,2-Dibromoethane	11.01	107	436757	50.185	ug/l	99
64) Tetrachloroethene	10.63	164	584950	50.618	ug/l	99
65) Chlorobenzene	11.43	112	1330942	49.899	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	472222	50.582	ug/l	99
67) Ethyl Benzene	11.51	91	2301653	50.783	ug/l	100
68) m/p-Xylenes	11.62	106	1750296	102.701	ug/l	99
69) o-Xylene	11.95	106	854052	51.187	ug/l	100
70) Styrene	11.96	104	1418663	52.244	ug/l	100
71) Bromoform	12.13	173	341627	51.807	ug/l #	99
73) Isopropylbenzene	12.25	105	2262805	52.083	ug/l	100
74) N-amyl acetate	12.07	43	668652	51.541	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	492936	49.323	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	438797m	51.555	ug/l	
77) Bromobenzene	12.53	156	586161	50.551	ug/l	99
78) n-propylbenzene	12.59	91	2598733	52.880	ug/l	99
79) 2-Chlorotoluene	12.67	91	1528200	51.392	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	1839798	52.572	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	158481	54.784	ug/l	100
82) 4-Chlorotoluene	12.77	91	1552544	50.917	ug/l	100
83) tert-Butylbenzene	12.99	119	1627017	52.990	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	1856561	52.074	ug/l	99
85) sec-Butylbenzene	13.17	105	2211737	54.621	ug/l	100
86) p-Isopropyltoluene	13.29	119	1924498	54.893	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	1029785	50.431	ug/l	100
88) 1,4-Dichlorobenzene	13.36	146	1022962	50.502	ug/l	99
89) n-Butylbenzene	13.62	91	1629308	55.431	ug/l	100
90) Hexachloroethane	13.88	117	294208	52.356	ug/l	97
91) 1,2-Dichlorobenzene	13.65	146	977114	51.085	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	65974	54.425	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	369373	61.418	ug/l	99
94) Hexachlorobutadiene	15.01	225	296378	60.250	ug/l	99
95) Naphthalene	15.13	128	643811	62.752	ug/l	100
96) 1,2,3-Trichlorobenzene	15.32	180	259482	65.900	ug/l	98

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

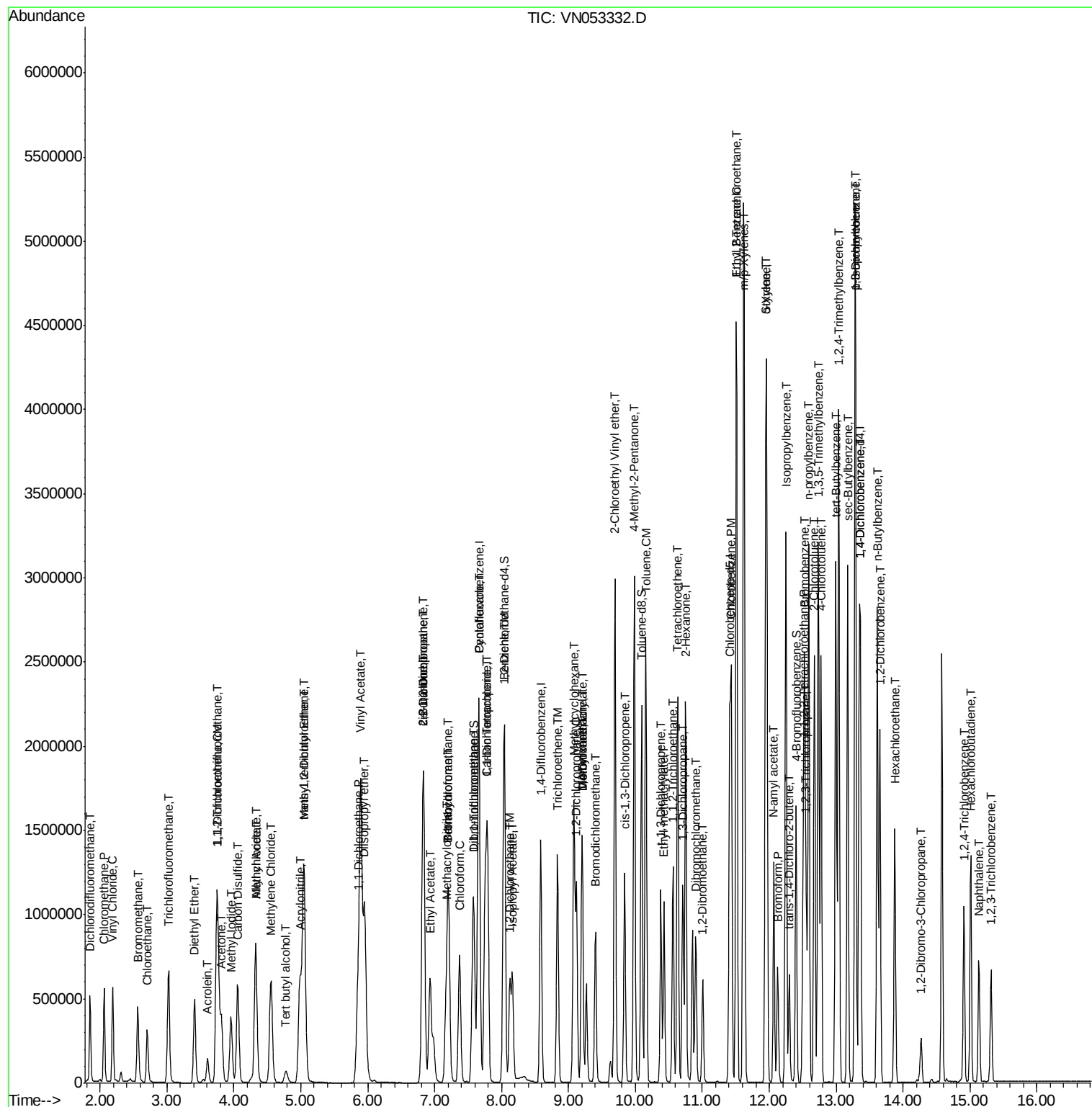
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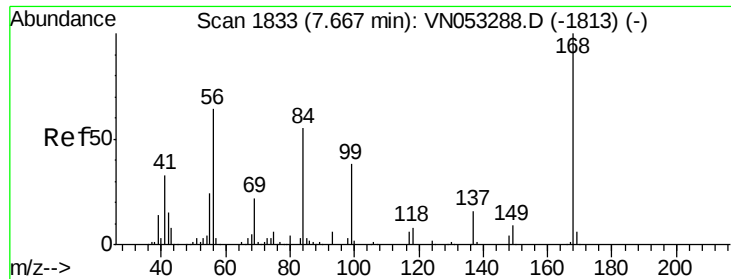
Instrument :
MSVOA_N
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN053332.D

Acq: 10 Jan 2019 9:30

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 904681

Ion Ratio Lower Upper

168 100

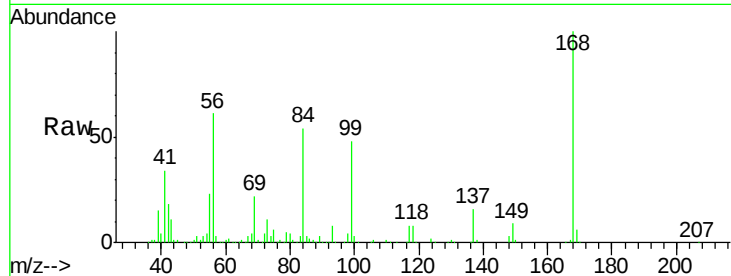
99 48.3 39.1 58.7

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

400000

300000

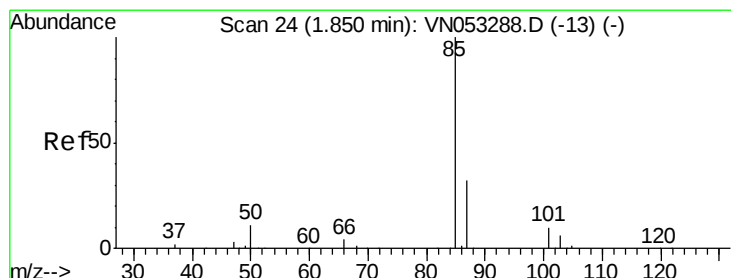
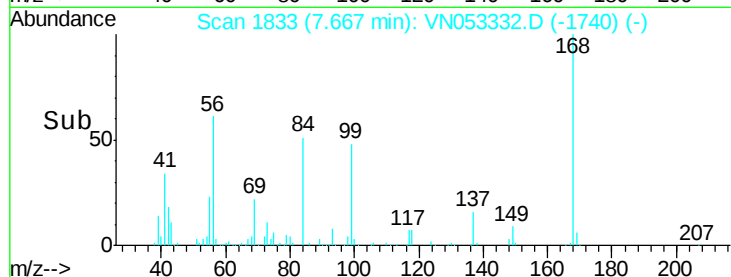
200000

100000

0

7.60 7.65 7.70 7.75

Time-->



#2

Dichlorodifluoromethane

Concen: 49.225 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN053332.D

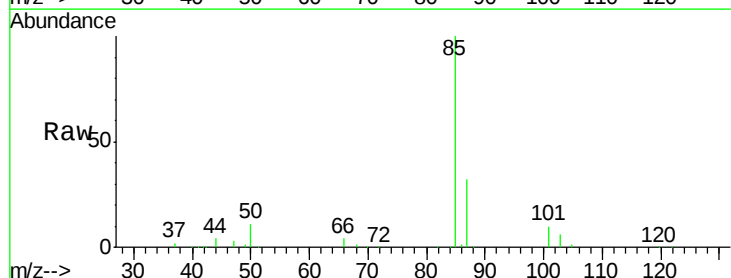
Acq: 10 Jan 2019 9:30

Tgt Ion: 85 Resp: 392602

Ion Ratio Lower Upper

85 100

87 32.1 16.0 47.9



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.85

300000

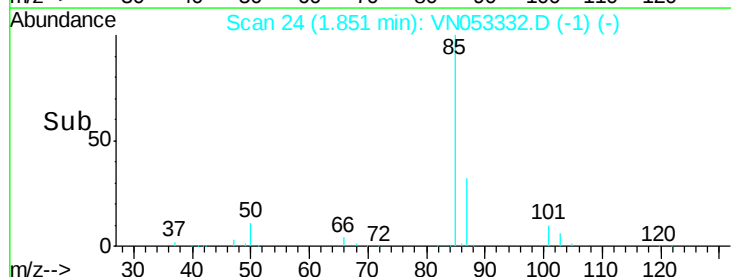
200000

100000

0

1.75 1.80 1.85 1.90 1.95

Time-->





#3

Chloromethane

Concen: 47.020 ug/l

RT: 2.06 min Scan# 89

Delta R.T. -0.00 min

Lab File: VN053332.D

Acq: 10 Jan 2019 9:30

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 523703

Ion Ratio Lower Upper

50 100

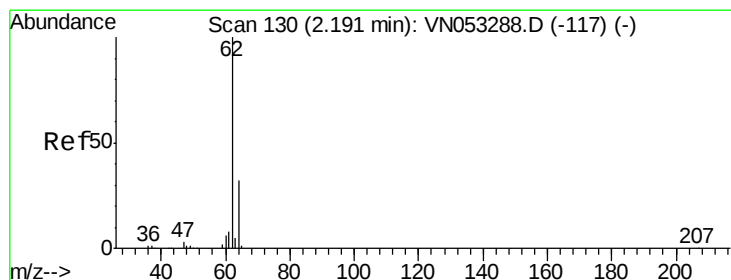
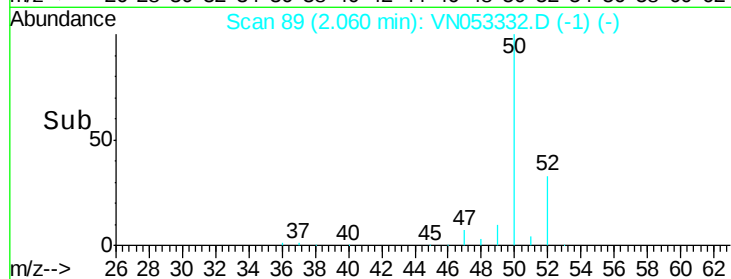
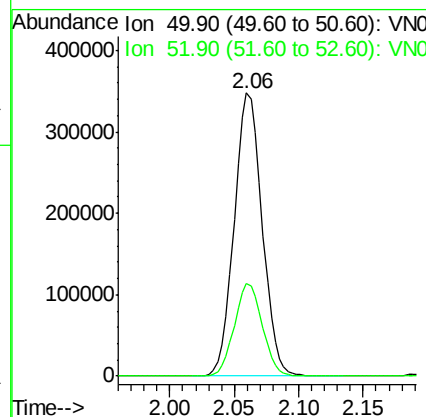
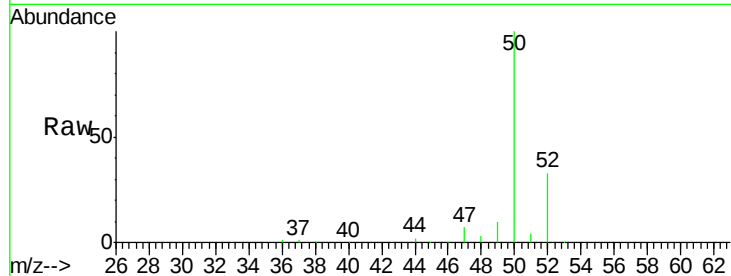
52 32.5 26.6 40.0

Manual Integrations

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#4

Vinyl Chloride

Concen: 48.294 ug/l

RT: 2.19 min Scan# 129

Delta R.T. -0.00 min

Lab File: VN053332.D

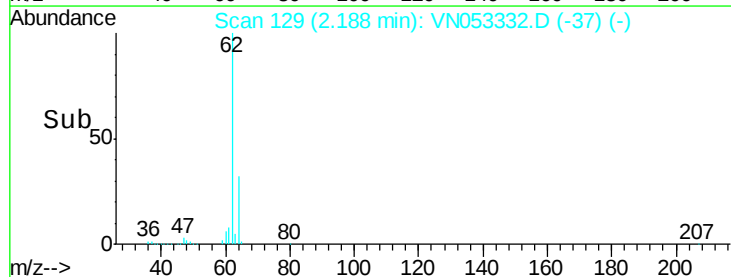
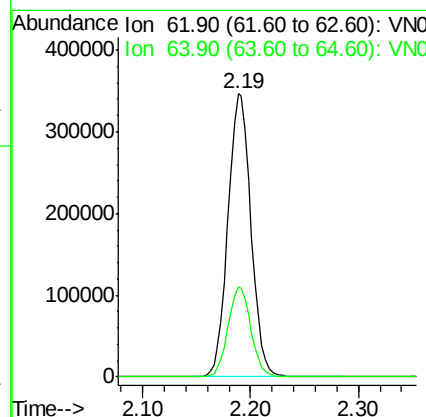
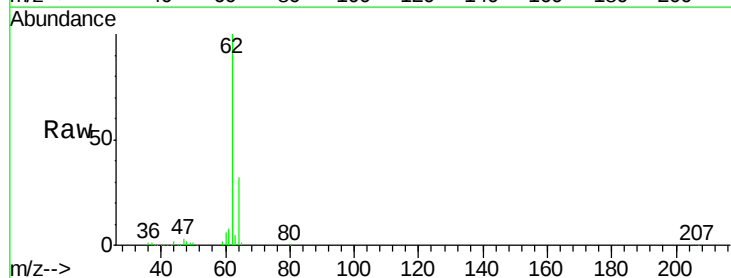
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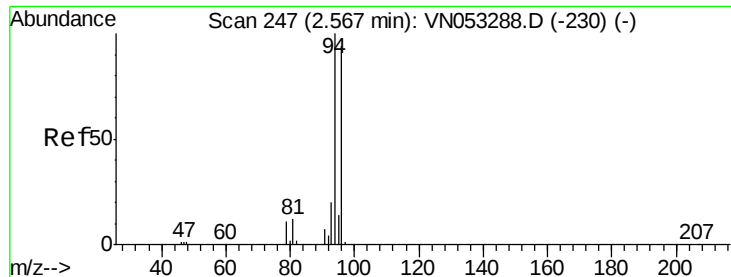
Tgt Ion: 62 Resp: 513396

Ion Ratio Lower Upper

62 100

64 31.7 25.6 38.4





#5

Bromomethane

Concen: 48.366 ug/l

RT: 2.56 min Scan# 246

Delta R.T. -0.00 min

Lab File: VN053332.D

Acq: 10 Jan 2019 9:30

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Tot Ion: 94 Resp: 335978

Ion Ratio Lower Upper

94 100

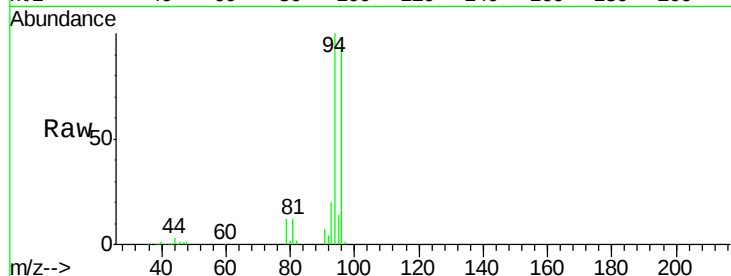
96 95.3 74.9 112.3

Manual Integrations

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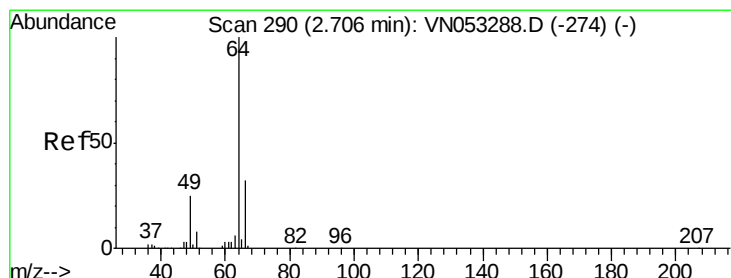
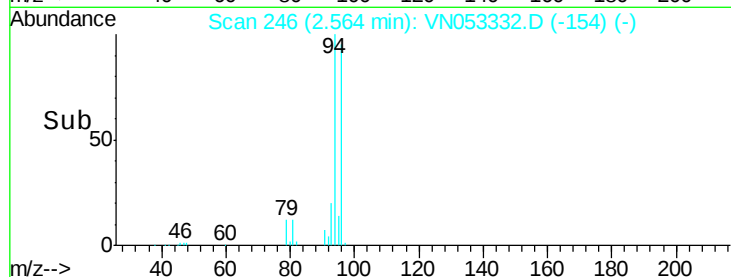
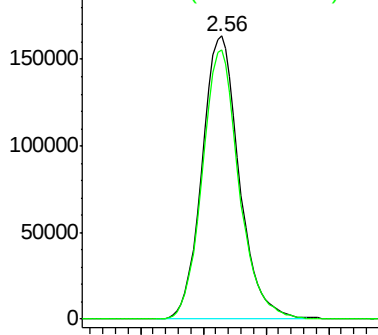
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Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO



#6

Chloroethane

Concen: 48.126 ug/l

RT: 2.71 min Scan# 290

Delta R.T. 0.00 min

Lab File: VN053332.D

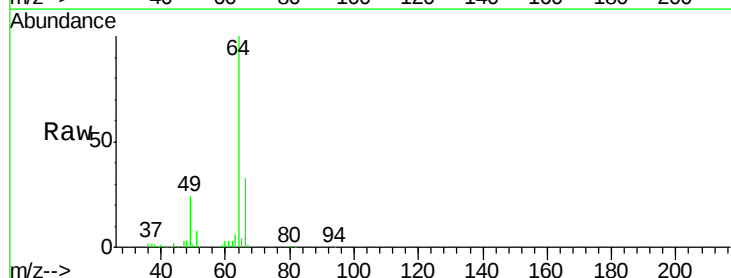
Acq: 10 Jan 2019 9:30

Tgt Ion: 64 Resp: 308801

Ion Ratio Lower Upper

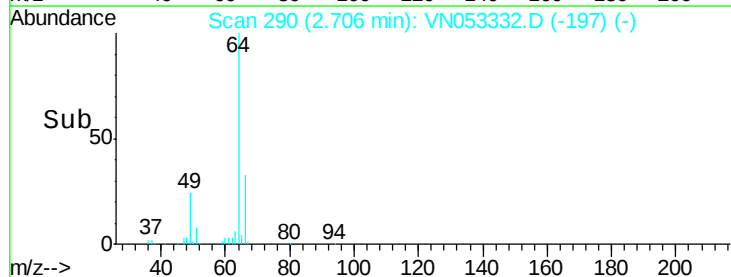
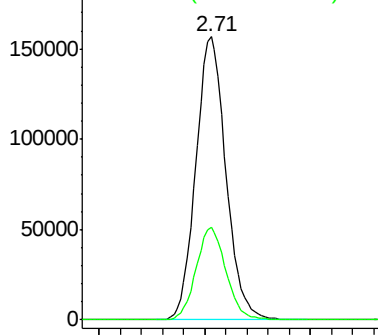
64 100

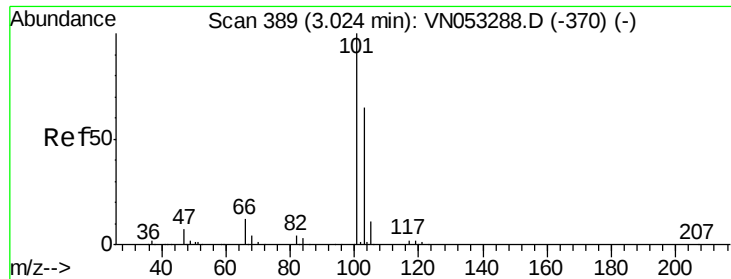
66 32.6 25.6 38.4



Abundance Ion 63.90 (63.60 to 64.60): VNO

Ion 65.90 (65.60 to 66.60): VNO





#7

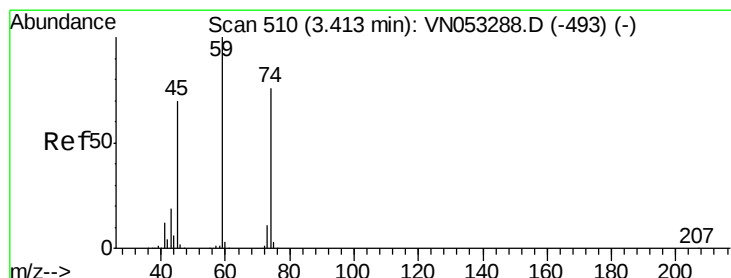
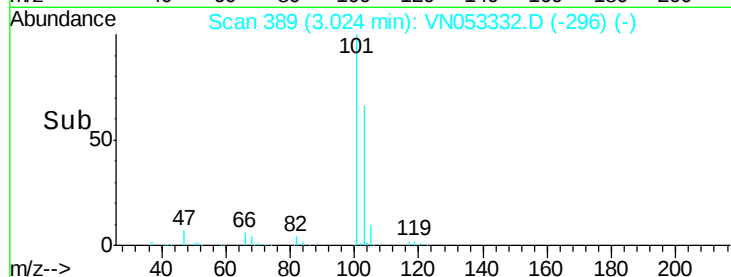
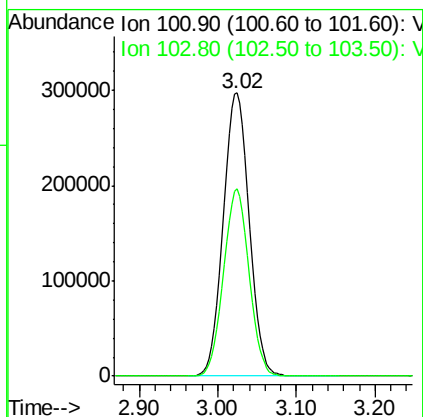
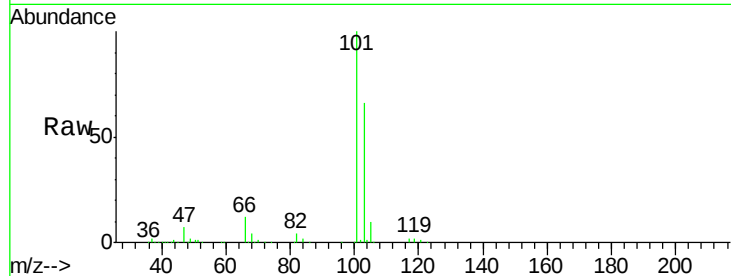
Trichlorofluoromethane
Concen: 49.081 ug/l
RT: 3.02 min Scan# 389
Delta R.T. 0.00 min
Lab File: VN053332.D
Acq: 10 Jan 2019 9:30

Instrument :
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Tot Ion	Ratio	Lower	Upper
101	100		
103	66.3	52.1	78.1

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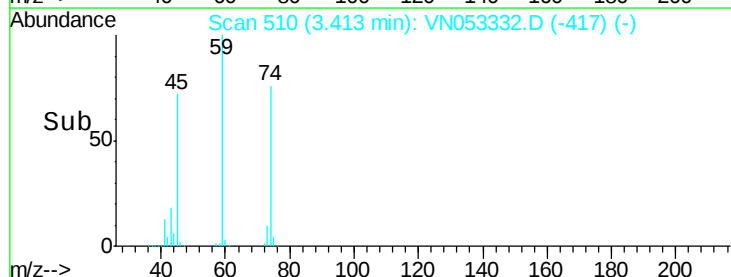
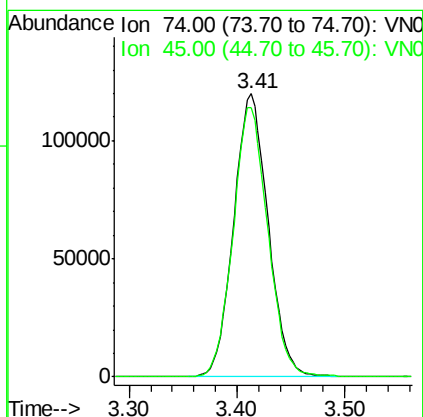
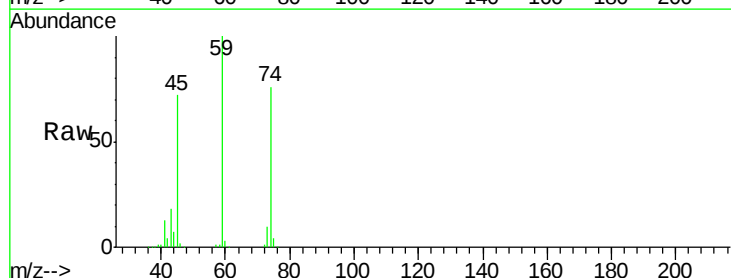
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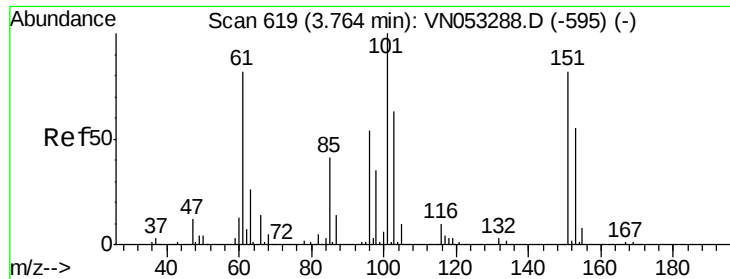


#8

Diethyl Ether
Concen: 49.473 ug/l
RT: 3.41 min Scan# 510
Delta R.T. 0.00 min
Lab File: VN053332.D
Acq: 10 Jan 2019 9:30

Tgt Ion	Ratio	Lower	Upper
74	100		
45	96.1	48.3	144.9





#9

1,1,2-Trichlorotrifluoroethane

Concen: 48.820 ug/l

RT: 3.76 min Scan# 619

Delta R.T. 0.00 min

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MSVOA_N

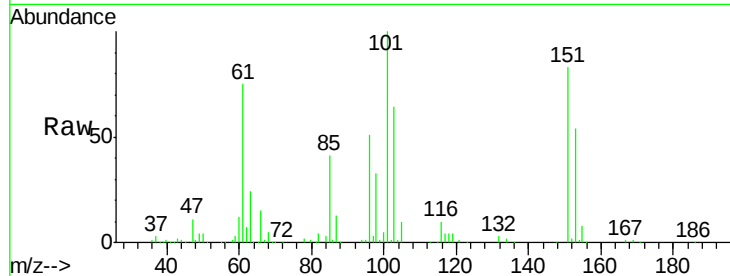
ClientSampleId :

VSTDCCC050

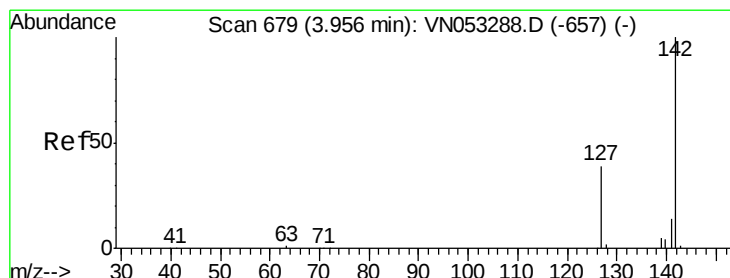
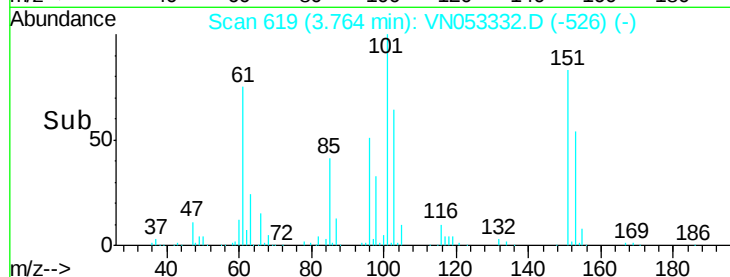
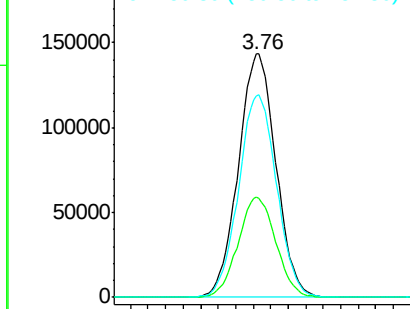
Tot Ion:	101	Resp:	426045
Ion Ratio	Lower	Upper	
101	100		
85	41.4	33.3	49.9
151	84.5	67.0	100.4

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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: 53.475 ug/l

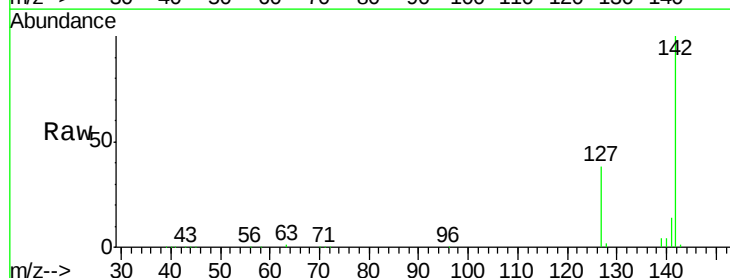
RT: 3.96 min Scan# 679

Delta R.T. 0.00 min

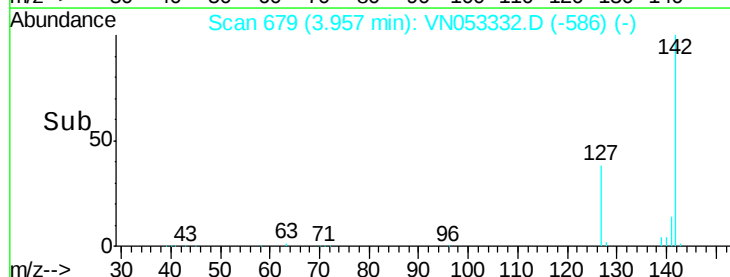
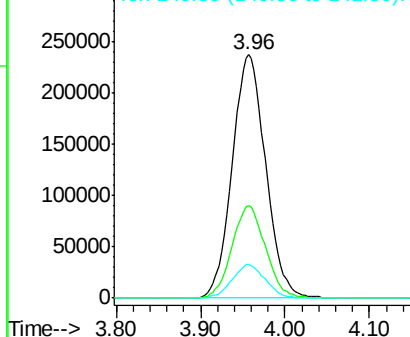
Lab File: VN053332.D

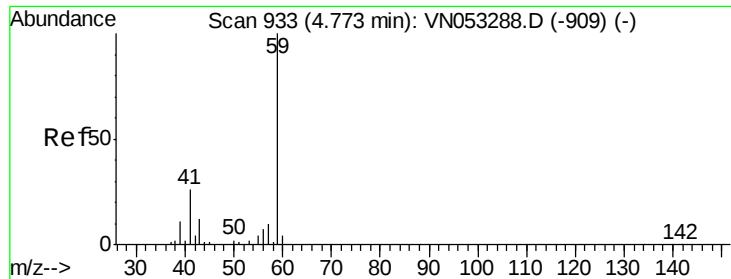
Acq: 10 Jan 2019 9:30

Tgt Ion:	142	Resp:	654149
Ion Ratio	Lower	Upper	
142	100		
127	38.1	30.9	46.3
141	13.7	11.2	16.8



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

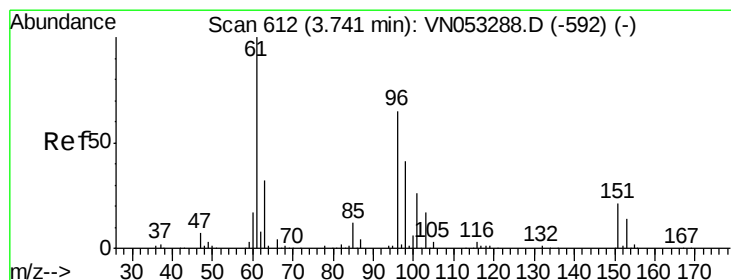
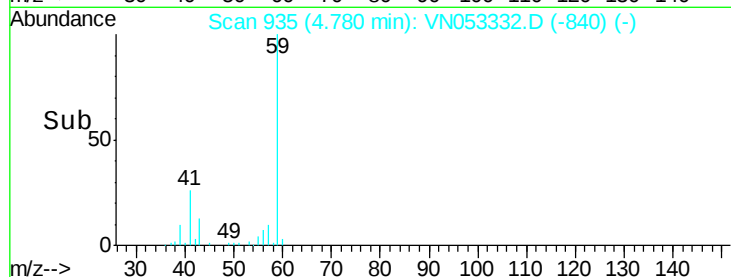
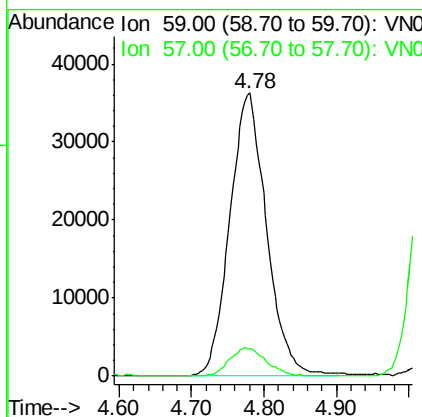
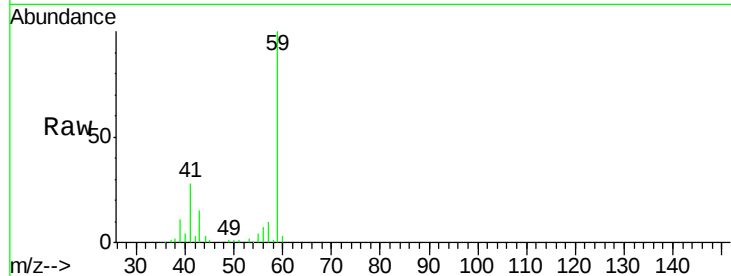
Tert butyl alcohol
 Concen: 226.255 ug/l
 RT: 4.78 min Scan# 935
 Delta R.T. 0.01 min
 Lab File: VN053332.D
 Acq: 10 Jan 2019 9:30

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.0	8.0	12.0

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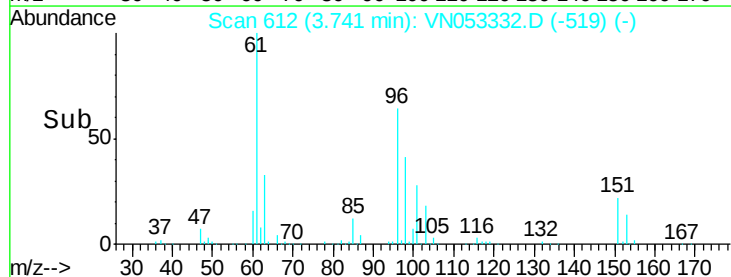
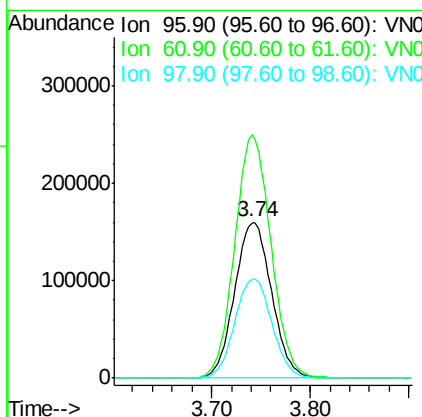
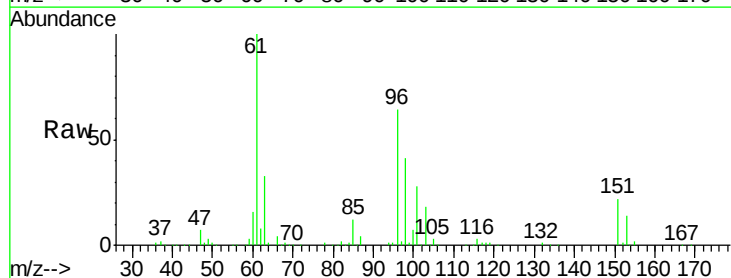
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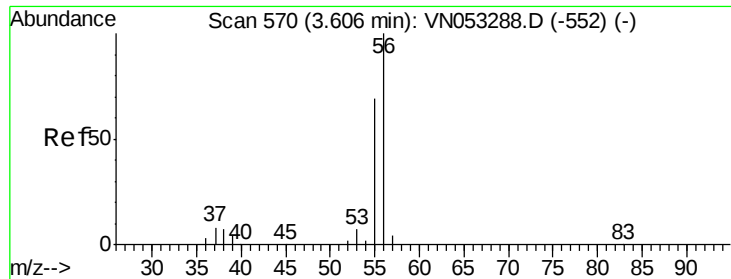


#12

1,1-Dichloroethene
 Concen: 49.110 ug/l
 RT: 3.74 min Scan# 612
 Delta R.T. 0.00 min
 Lab File: VN053332.D
 Acq: 10 Jan 2019 9:30

Tgt Ion	Ratio	Lower	Upper
96	100		
61	156.5	123.2	184.8
98	63.6	50.5	75.7





#13

Acrolein

Concen: 231.961 ug/l

RT: 3.61 min Scan# 570

Delta R.T. 0.00 min

Lab File: VN053332.D

Acq: 10 Jan 2019 9:30

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 165108

Ion Ratio Lower Upper

56 100

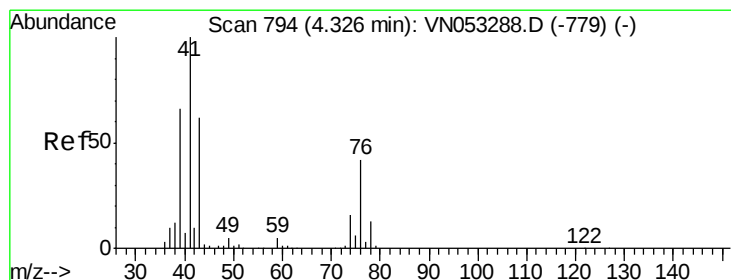
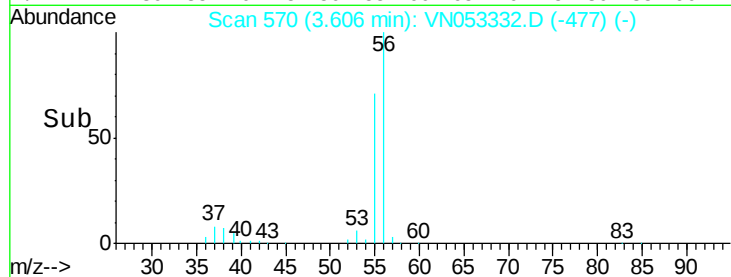
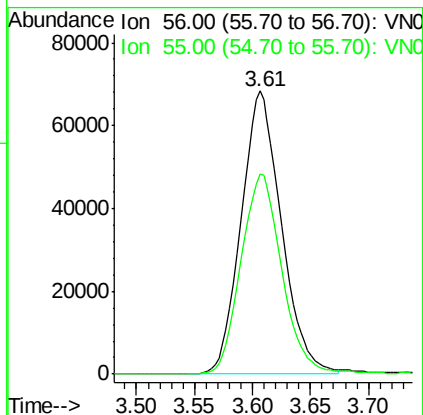
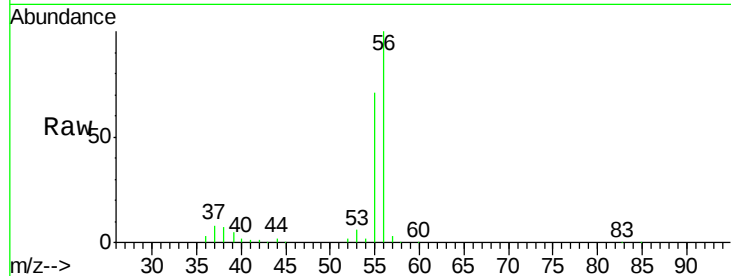
55 70.9 56.3 84.5

Manual Integrations

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#14

Allyl chloride

Concen: 50.959 ug/l

RT: 4.33 min Scan# 794

Delta R.T. 0.00 min

Lab File: VN053332.D

Acq: 10 Jan 2019 9:30

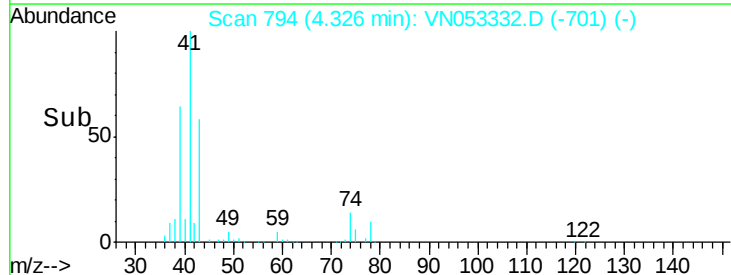
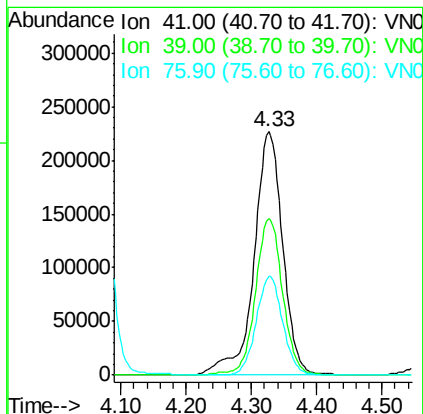
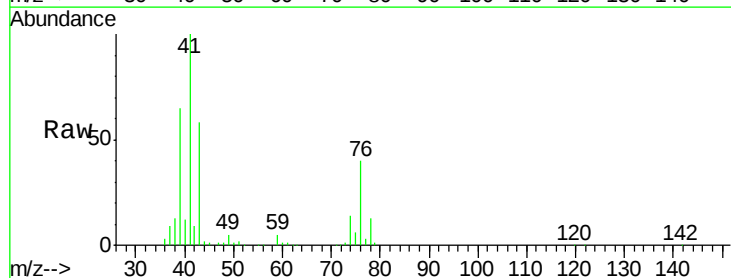
Tgt Ion: 41 Resp: 693307

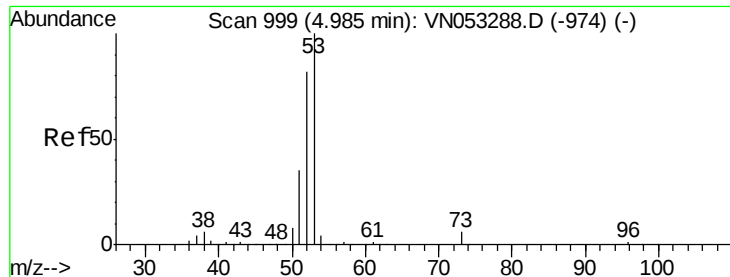
Ion Ratio Lower Upper

41 100

39 61.1 51.9 77.9

76 37.0 31.2 46.8





#15

Acrylonitrile

Concen: 241.473 ug/l

RT: 4.99 min Scan# 999

Delta R.T. 0.00 min

Lab File: VN053332.D

Acq: 10 Jan 2019 9:30

Instrument :

MSVOA_N

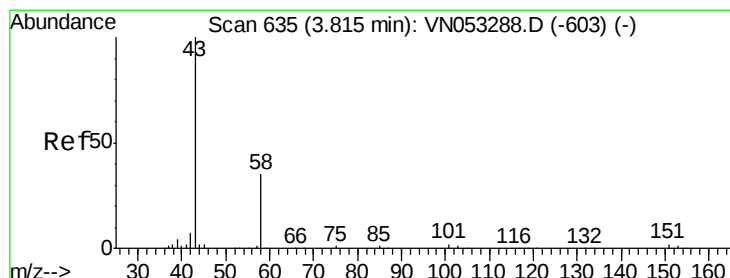
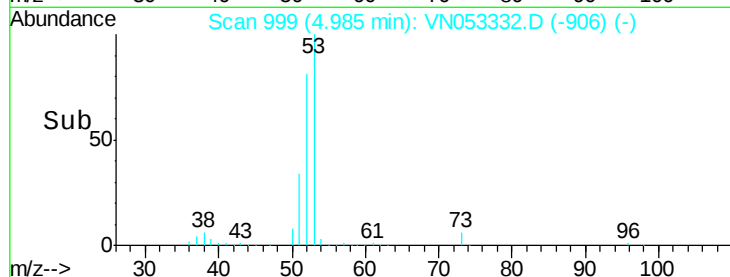
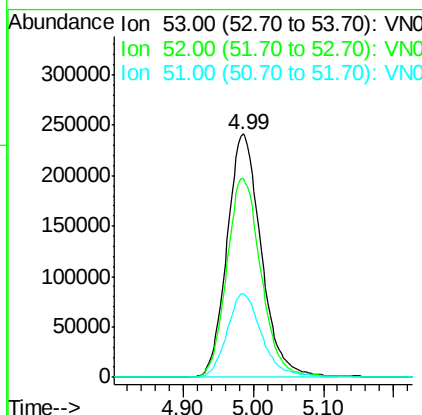
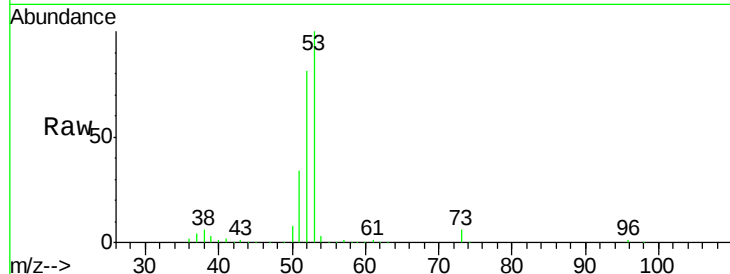
ClientSampleId :

VSTDCCC050

Tot Ion:	53	Resp:	816051
Ion Ratio	Lower	Upper	
53	100		
52	82.3	65.2	97.8
51	35.1	28.0	42.0

Manual Integrations
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#16

Acetone

Concen: 264.381 ug/l

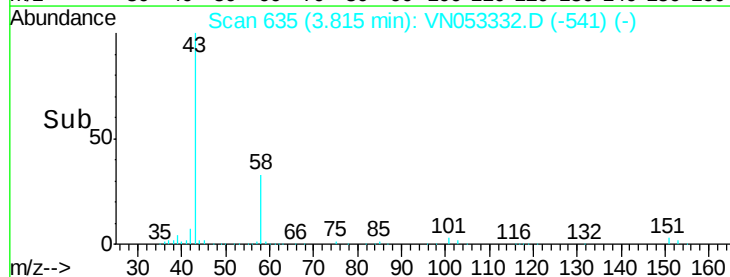
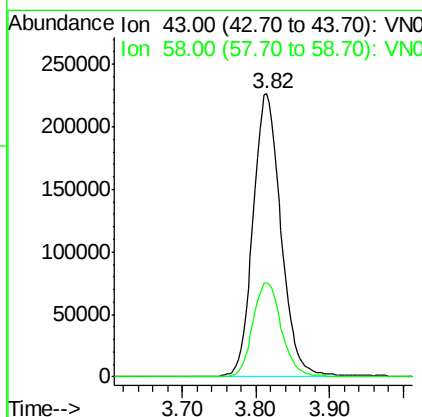
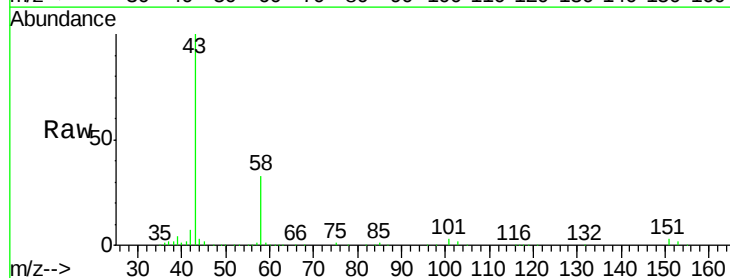
RT: 3.82 min Scan# 635

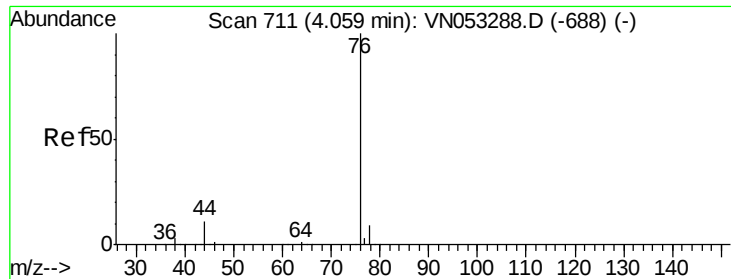
Delta R.T. 0.00 min

Lab File: VN053332.D

Acq: 10 Jan 2019 9:30

Tgt Ion:	43	Resp:	598587
Ion Ratio	Lower	Upper	
43	100		
58	33.2	27.8	41.6





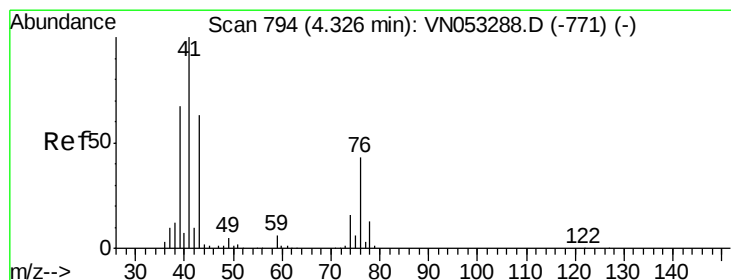
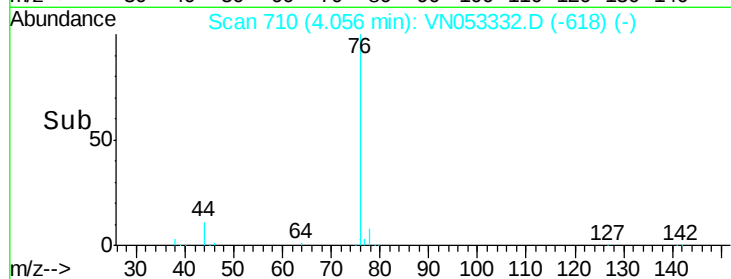
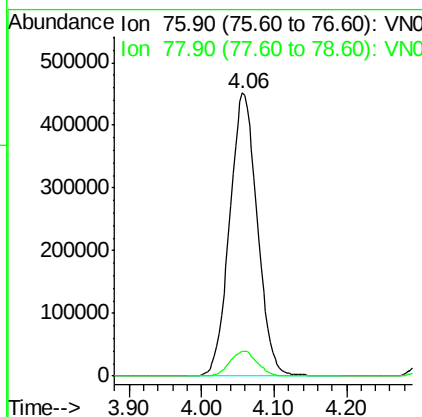
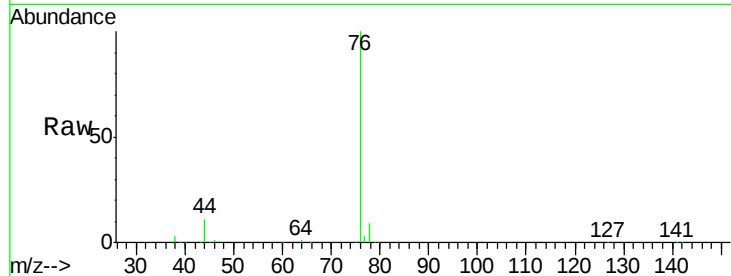
#17
Carbon Disulfide
Concen: 46.095 ug/l
RT: 4.06 min Scan# 710
Delta R.T. -0.00 min
Lab File: VN053332.D
Acq: 10 Jan 2019 9:30

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 76 Resp: 1199612
Ion Ratio Lower Upper
76 100
78 8.8 7.2 10.8

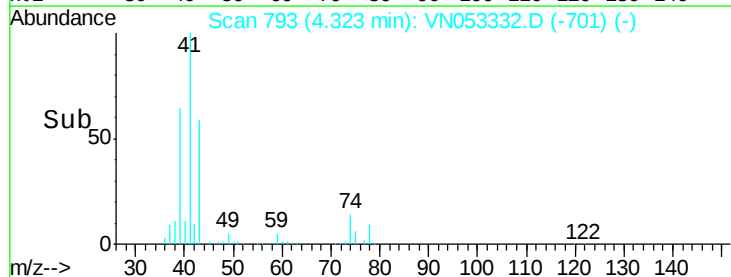
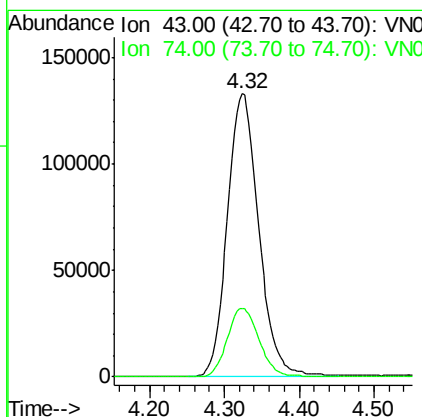
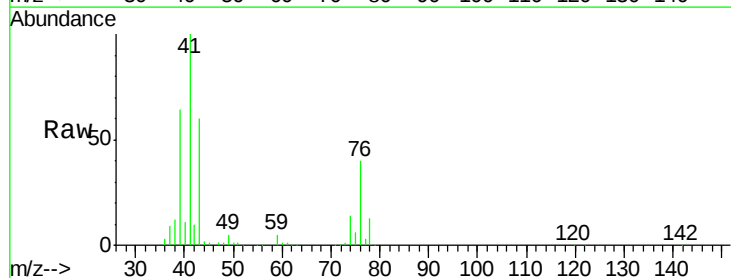
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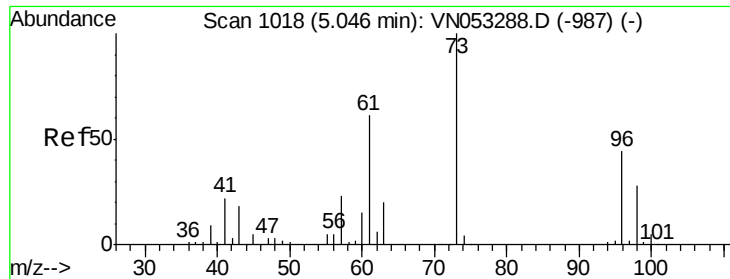
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#18
Methyl Acetate
Concen: 45.275 ug/l
RT: 4.32 min Scan# 793
Delta R.T. -0.00 min
Lab File: VN053332.D
Acq: 10 Jan 2019 9:30

Tgt Ion: 43 Resp: 385664
Ion Ratio Lower Upper
43 100
74 24.8 19.8 29.8





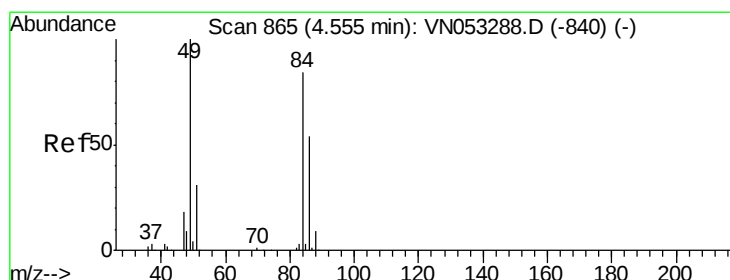
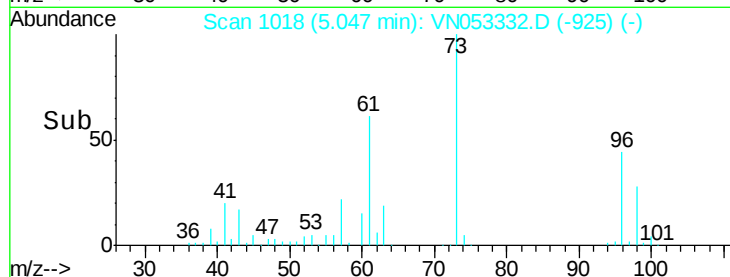
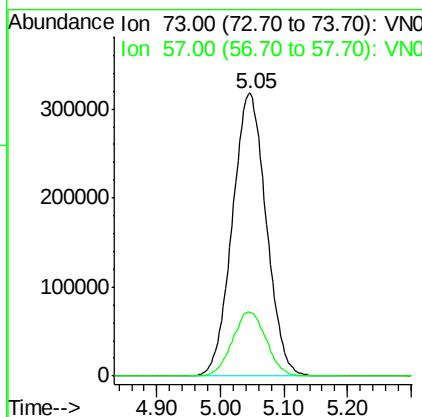
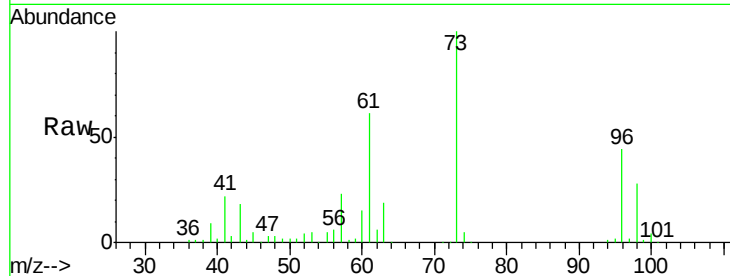
#19
Methvl tert-butvl Ether
Concen: 49.633 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VN053332.D
Acq: 10 Jan 2019 9:30

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 73 Resp: 1175851
Ion Ratio Lower Upper
73 100
57 22.5 18.5 27.7

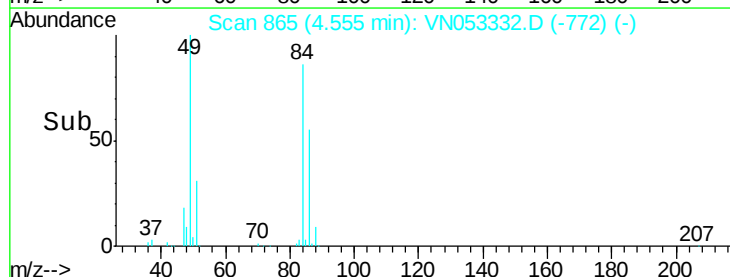
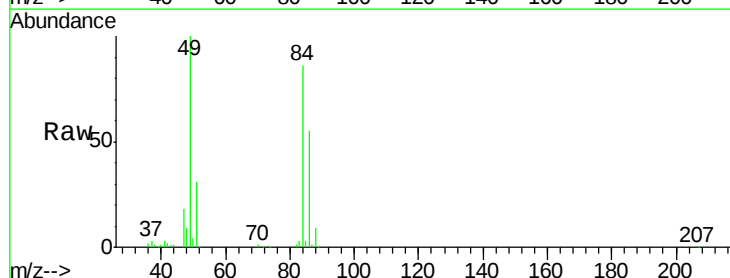
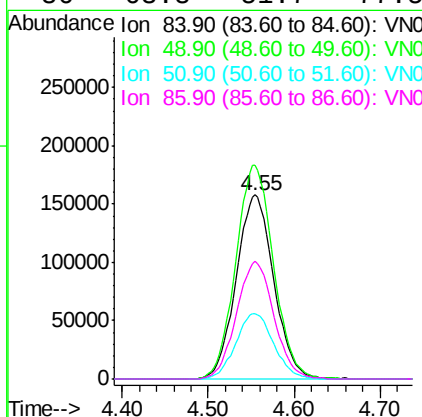
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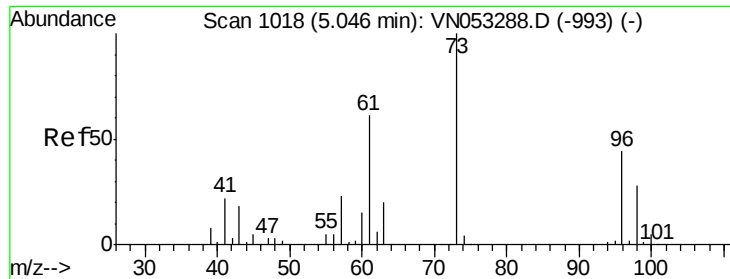
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#20
Methylene Chloride
Concen: 47.431 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN053332.D
Acq: 10 Jan 2019 9:30

Tgt Ion: 84 Resp: 479476
Ion Ratio Lower Upper
84 100
49 116.0 95.3 142.9
51 35.5 29.0 43.6
86 63.8 51.7 77.5





#21

trans-1,2-Dichloroethene

Concen: 49.033 ug/l

RT: 5.05 min Scan# 1018

Delta R.T. 0.00 min

Lab File: VN053332.D

Acq: 10 Jan 2019 9:30

Instrument :

MSVOA_N

ClientSampled :

VSTDCCC050

Tot Ion: 96 Resp: 444415

Ion Ratio Lower Upper

96 100

61 139.2 110.2 165.4

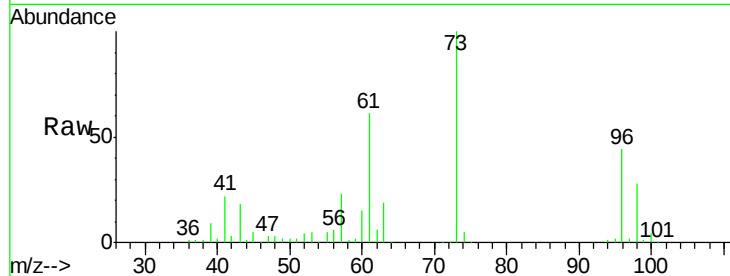
98 64.4 50.7 76.1

Manual Integrations

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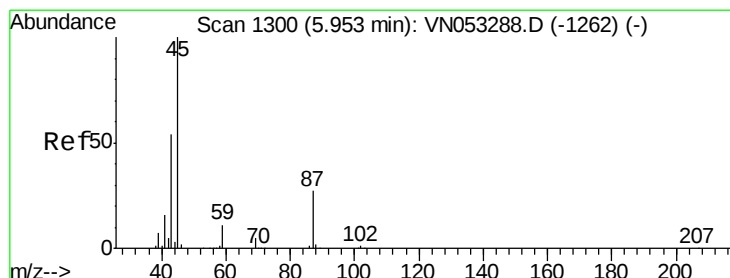
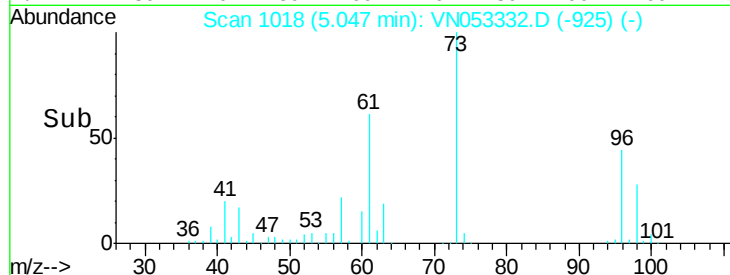
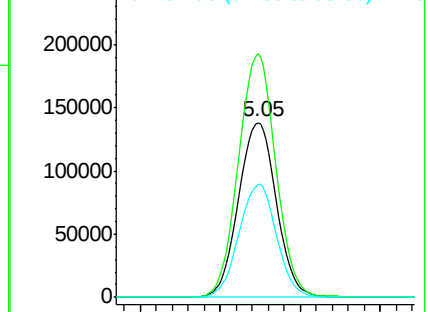


Abundance

Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#22

Diisopropyl ether

Concen: 50.023 ug/l

RT: 5.95 min Scan# 1299

Delta R.T. -0.00 min

Lab File: VN053332.D

Acq: 10 Jan 2019 9:30

Tgt Ion: 45 Resp: 1466141

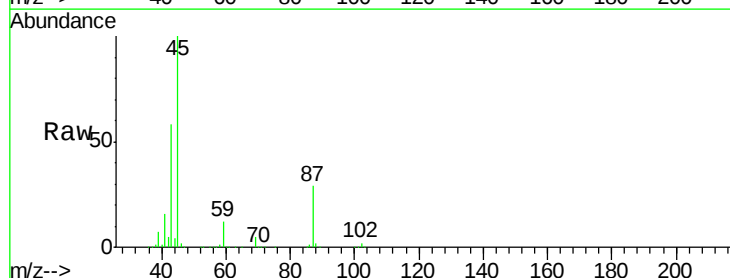
Ion Ratio Lower Upper

45 100

43 56.9 43.0 64.6

87 28.9 22.1 33.1

59 12.1 9.0 13.4



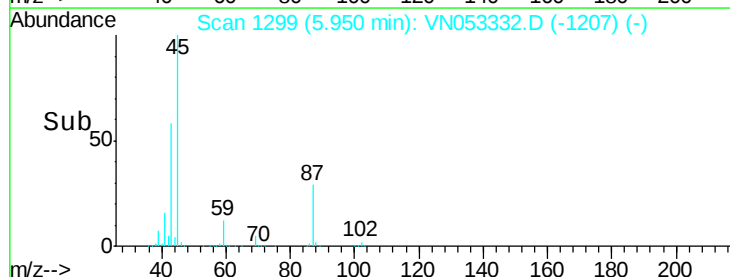
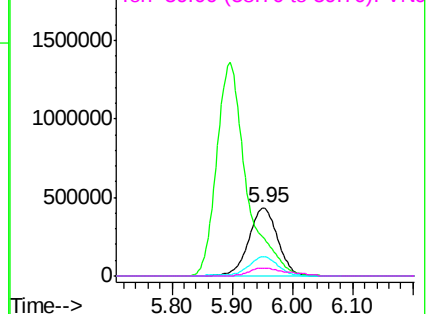
Abundance

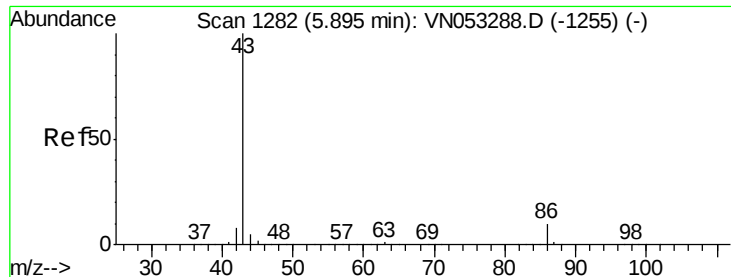
Ion 45.00 (44.70 to 45.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

Ion 59.00 (58.70 to 59.70): VN0





#23

Vinyl Acetate

Concen: 252.180 ug/l

RT: 5.90 min Scan# 1282

Delta R.T. 0.00 min

Lab File: VN053332.D

Acq: 10 Jan 2019 9:30

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 4650675

Ion Ratio Lower Upper

43 100

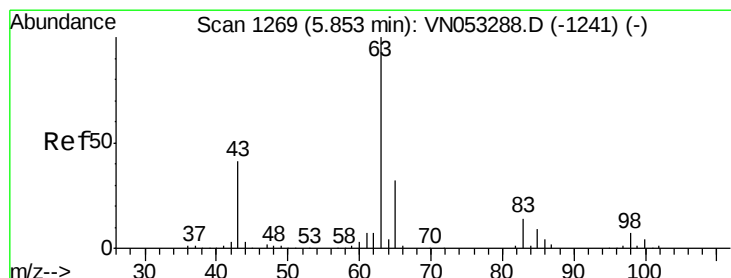
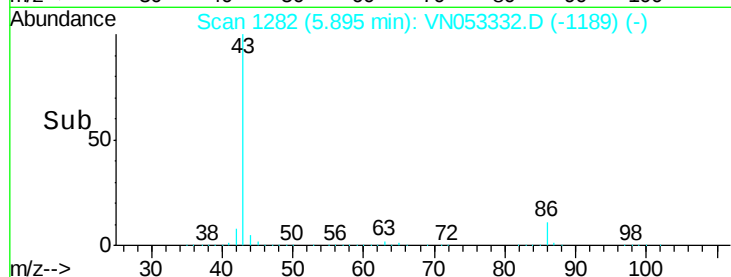
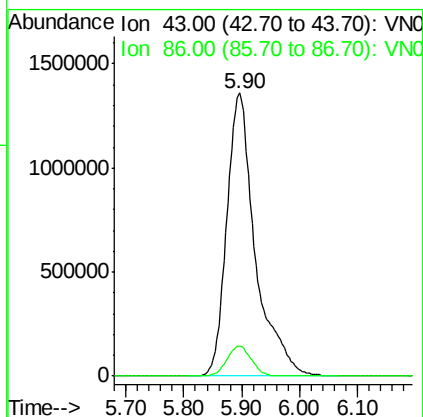
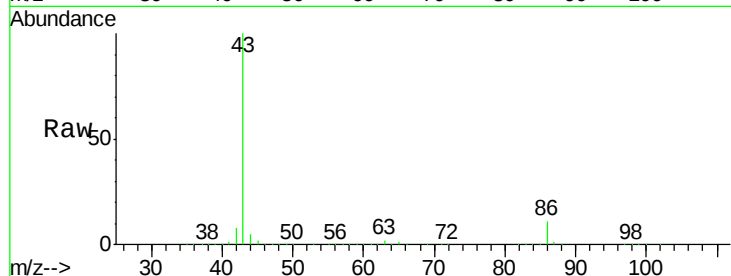
86 10.5 8.4 12.6

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#24

1,1-Dichloroethane

Concen: 49.627 ug/l

RT: 5.85 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VN053332.D

Acq: 10 Jan 2019 9:30

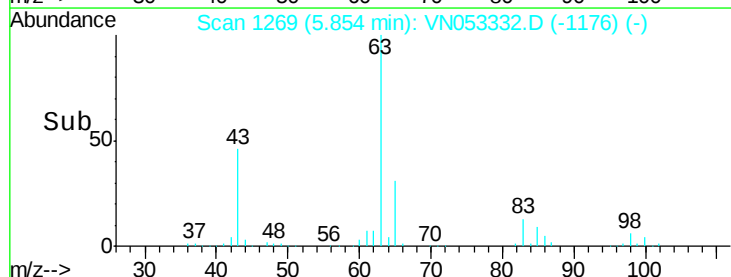
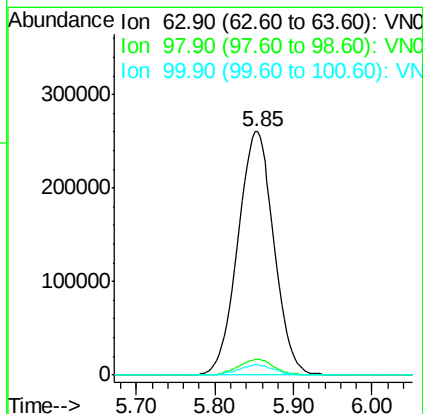
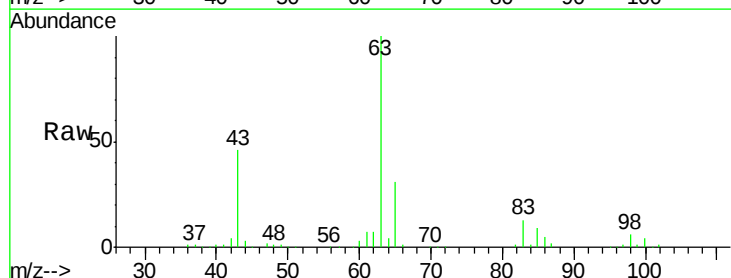
Tgt Ion: 63 Resp: 838909

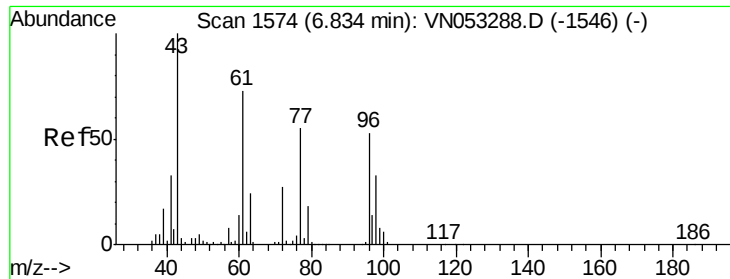
Ion Ratio Lower Upper

63 100

98 6.5 3.3 9.8

100 4.2 2.1 6.5





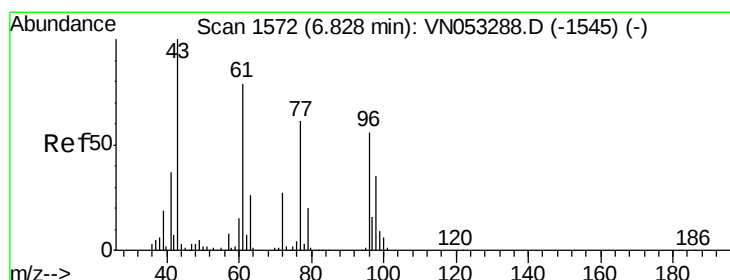
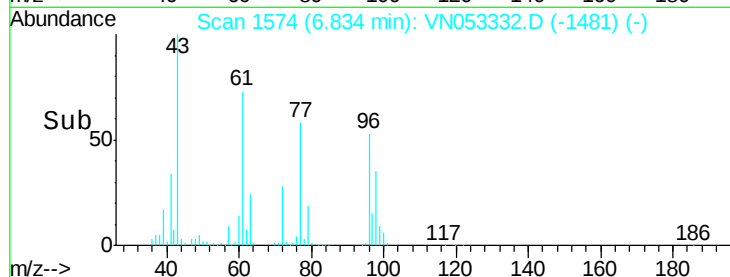
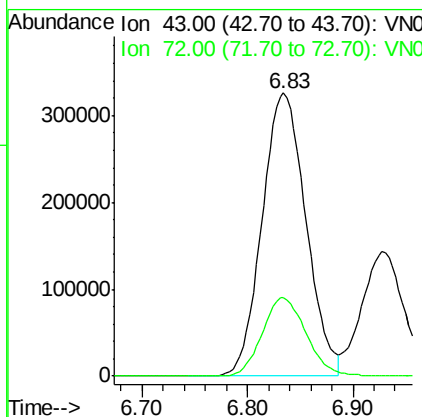
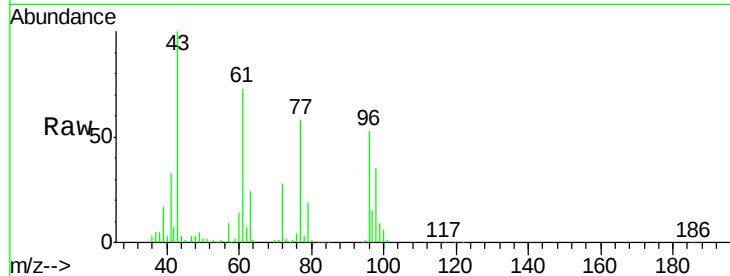
#25
2-Butanone
Concen: 243.034 ug/l
RT: 6.83 min Scan# 1574
Delta R.T. 0.00 min
Lab File: VN053332.D
Acq: 10 Jan 2019 9:30

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 938452
Ion Ratio Lower Upper
43 100
72 27.8 22.0 33.0

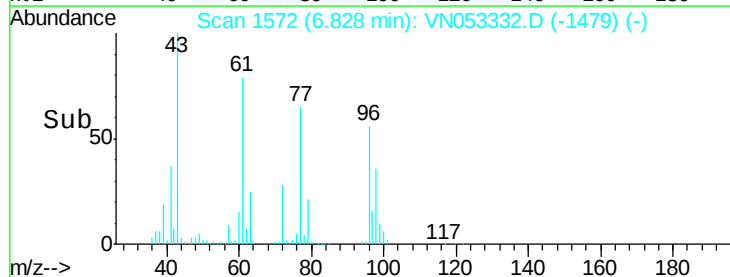
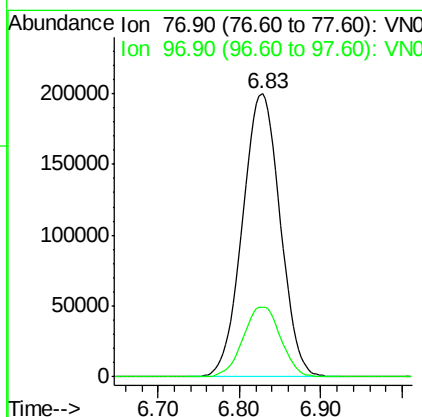
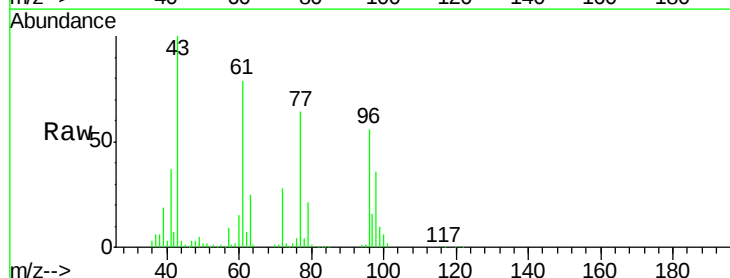
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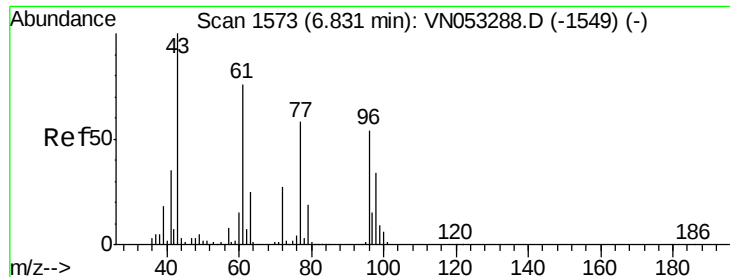
MMDadoda
1/11/2019 10:11:34 AM



#26
2,2-Dichloropropane
Concen: 51.574 ug/l
RT: 6.83 min Scan# 1572
Delta R.T. 0.00 min
Lab File: VN053332.D
Acq: 10 Jan 2019 9:30

Tgt Ion: 77 Resp: 637296
Ion Ratio Lower Upper
77 100
97 24.7 12.3 36.9





#27

cis-1,2-Dichloroethene

Concen: 49.658 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VN053332.D

Acq: 10 Jan 2019 9:30

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 96 Resp: 513973

Ion Ratio Lower Upper

96 100

61 140.8 0.0 280.6

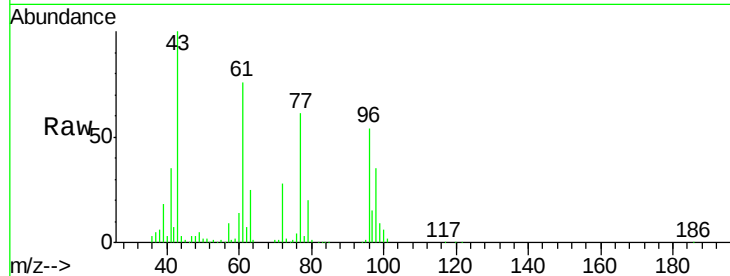
98 64.7 0.0 127.6

Manual Integrations

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MMDadoda

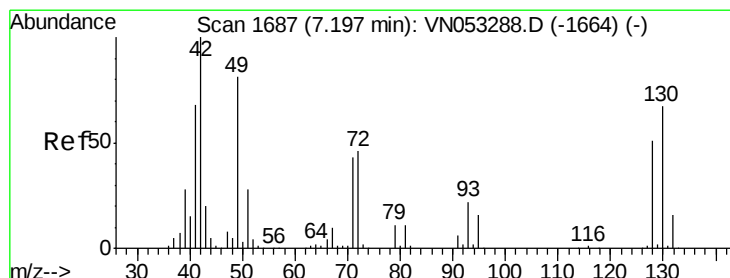
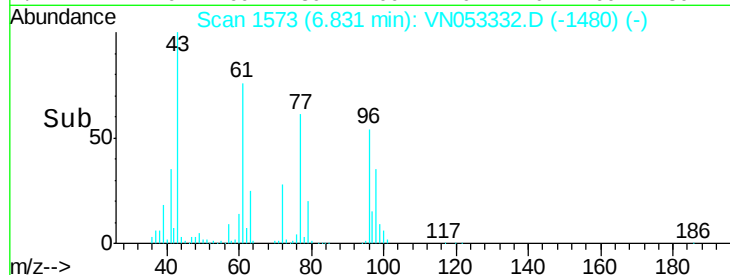
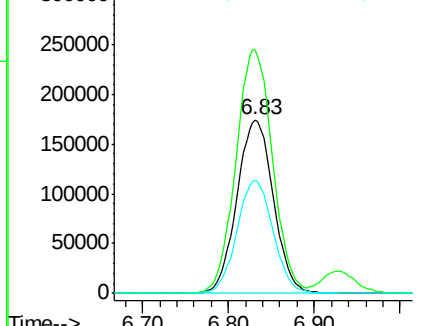
1/11/2019 10:11:34 AM



Abundance Ion 95.90 (95.60 to 96.60): VN053332.D (-1480) (-)

Ion 60.90 (60.60 to 61.60): VN053332.D (-1480) (-)

Ion 97.90 (97.60 to 98.60): VN053332.D (-1480) (-)



#28

Bromochloromethane

Concen: 48.832 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. 0.00 min

Lab File: VN053332.D

Acq: 10 Jan 2019 9:30

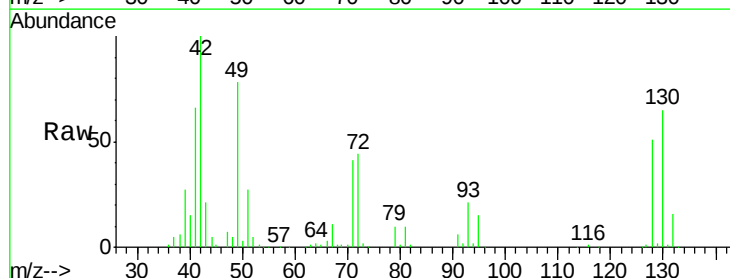
Tgt Ion: 49 Resp: 351769

Ion Ratio Lower Upper

49 100

129 2.1 0.0 3.8

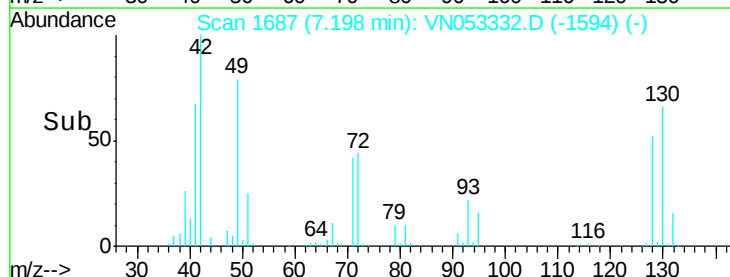
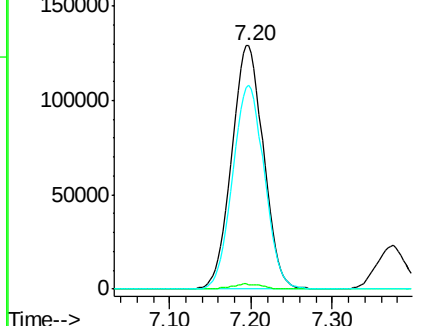
130 83.4 65.4 98.0

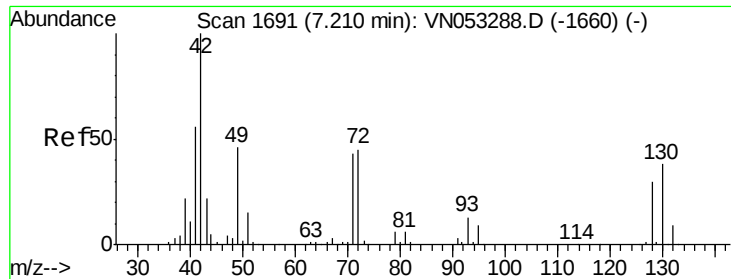


Abundance Ion 48.90 (48.60 to 49.60): VN053332.D (-1594) (-)

Ion 128.80 (128.50 to 129.50): VN053332.D (-1594) (-)

Ion 129.80 (129.50 to 130.50): VN053332.D (-1594) (-)





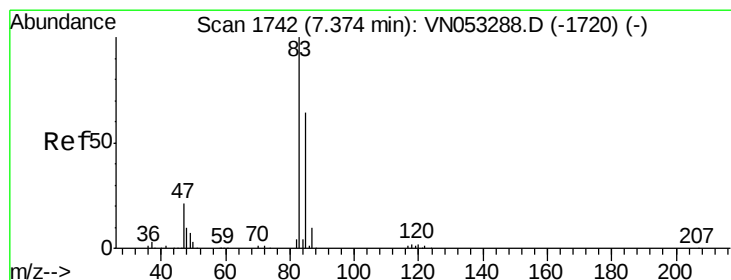
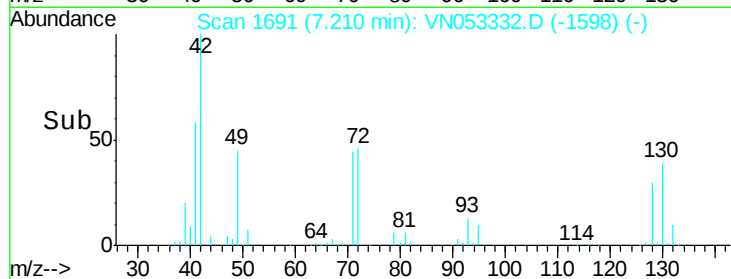
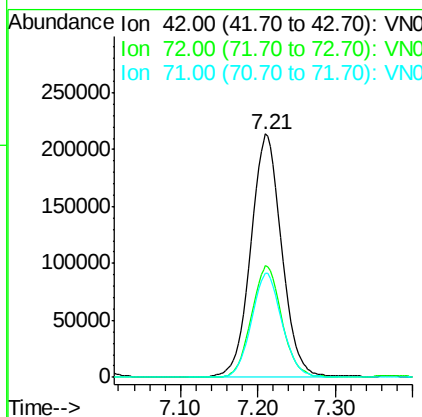
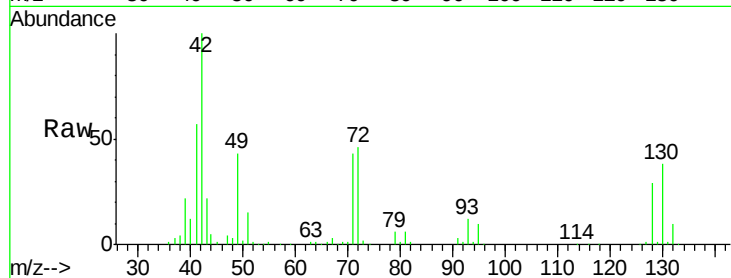
#29
Tetrahydrofuran
Concen: 233.936 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. 0.00 min
Lab File: VN053332.D
Acq: 10 Jan 2019 9:30

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
42	100	596109		
72	45.2		35.6	53.4
71	42.5		33.8	50.8

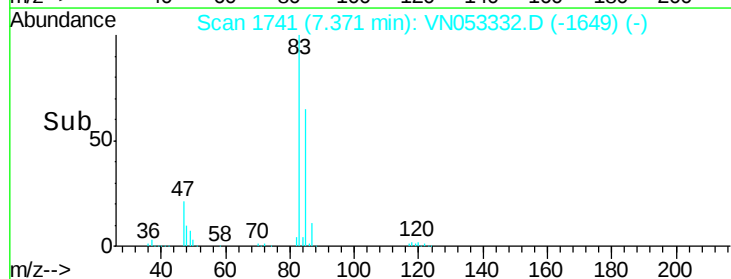
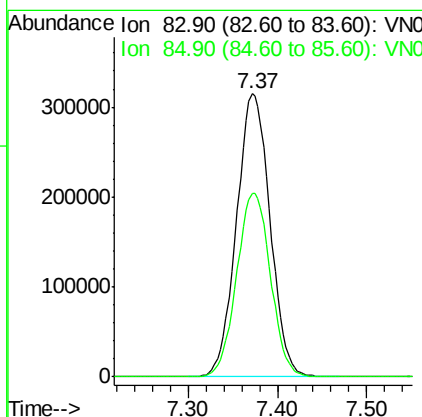
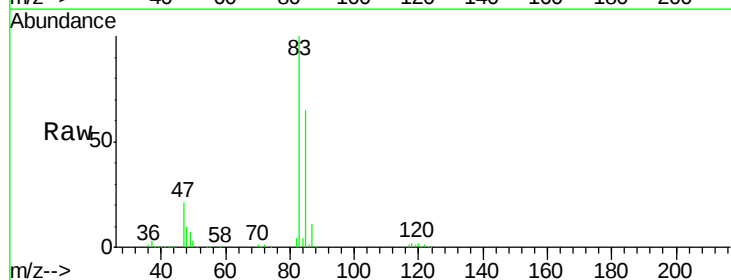
Manual Integrations
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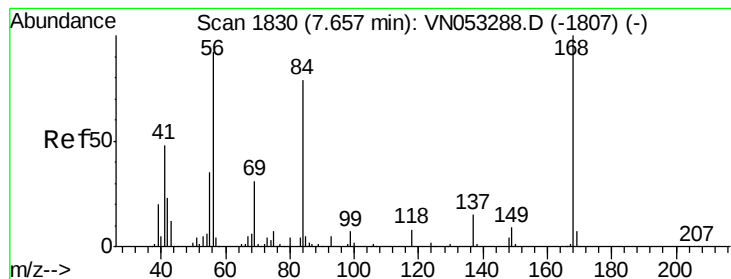
MMDadoda
1/11/2019 10:11:34 AM



#30
Chloroform
Concen: 49.325 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VN053332.D
Acq: 10 Jan 2019 9:30

Tgt Ion	Ratio	Resp	Lower	Upper
83	100	820682		
85	64.7		51.3	76.9





#31

Cyclohexane

Concen: 48.222 ug/l

RT: 7.66 min Scan# 1830

Delta R.T. 0.00 min

Lab File: VN053332.D

Acq: 10 Jan 2019 9:30

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 774744

Ion Ratio Lower Upper

56 100

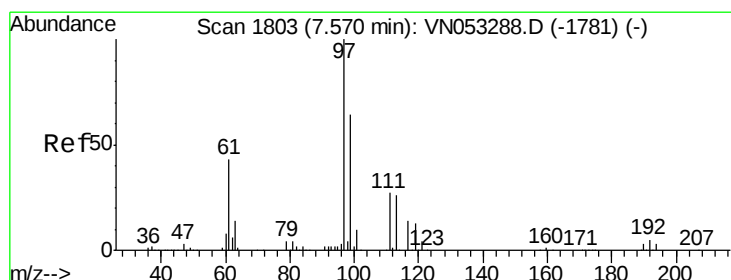
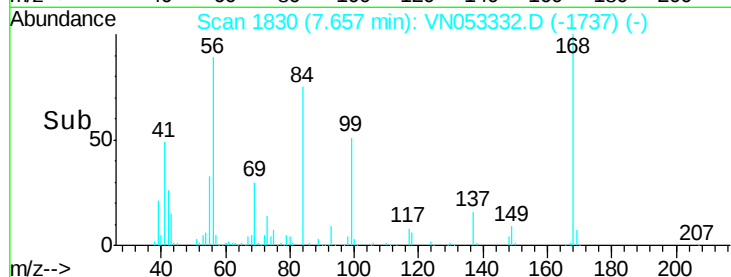
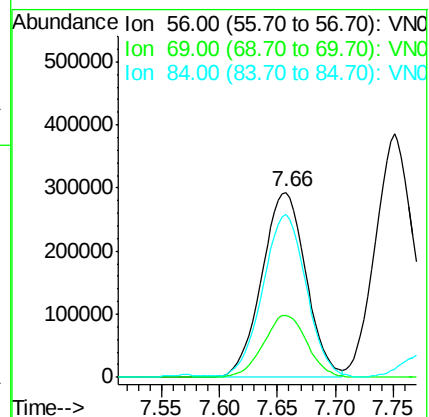
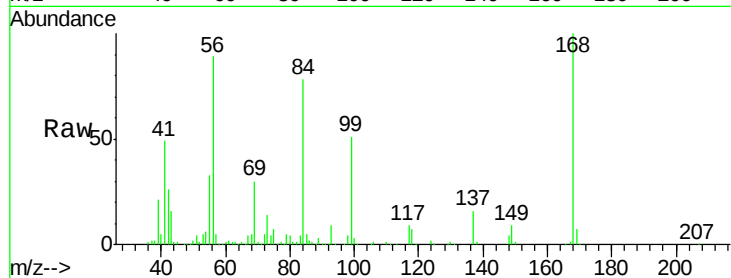
69 33.5 26.7 40.1

84 86.7 68.2 102.4

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 49.657 ug/l

RT: 7.57 min Scan# 1803

Delta R.T. 0.00 min

Lab File: VN053332.D

Acq: 10 Jan 2019 9:30

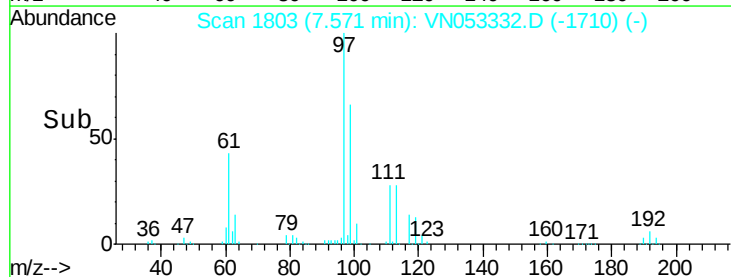
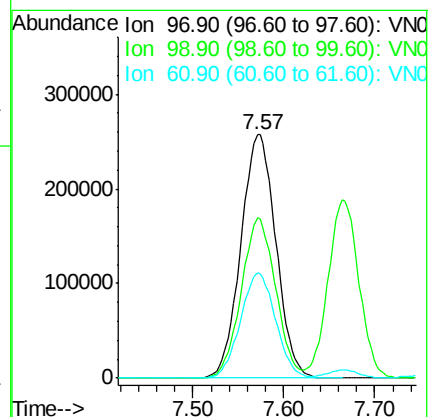
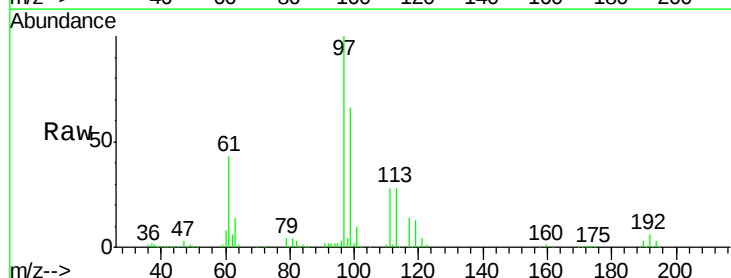
Tgt Ion: 97 Resp: 688493

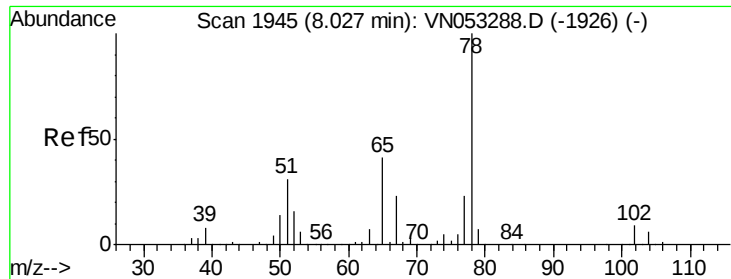
Ion Ratio Lower Upper

97 100

99 64.7 51.6 77.4

61 43.4 34.6 52.0





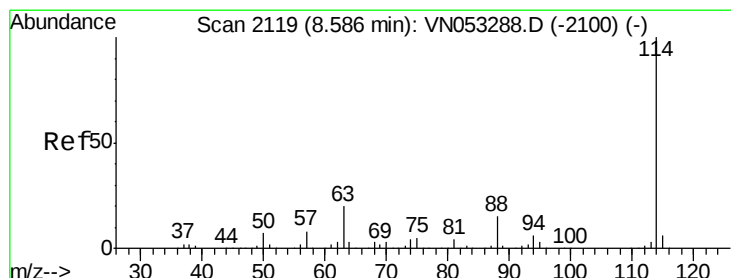
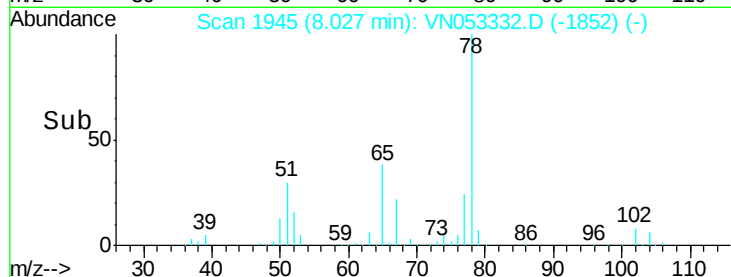
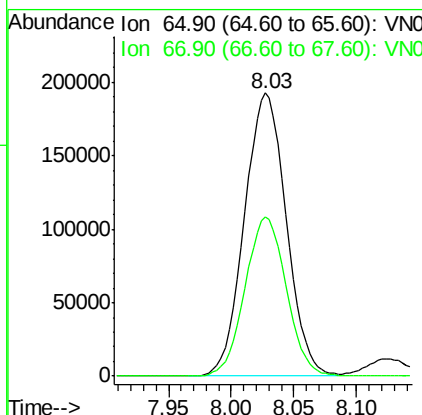
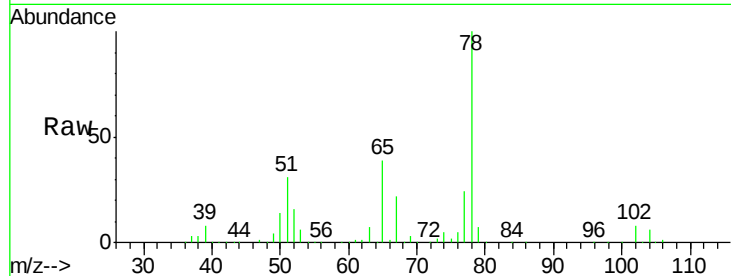
#33
 1,2-Dichloroethane-d4
 Concen: 49.657 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN053332.D
 Acq: 10 Jan 2019 9:30

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	55.5	0.0	111.0	

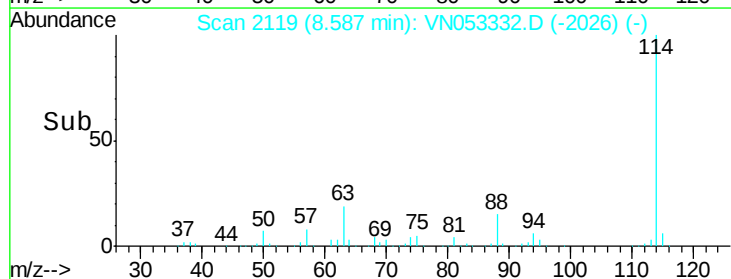
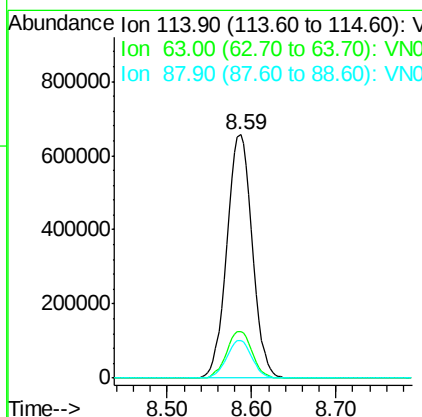
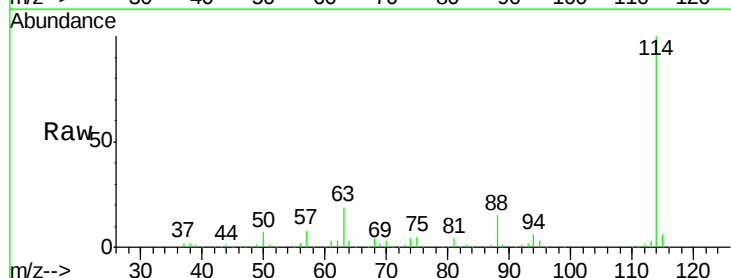
Manual Integrations
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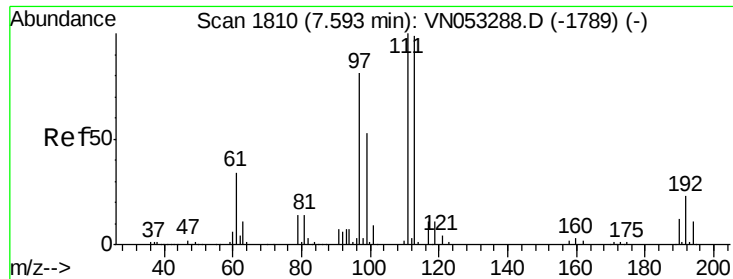
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 1/11/2019 10:11:34 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053332.D
 Acq: 10 Jan 2019 9:30

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	19.3	0.0	39.0	
88	15.5	0.0	30.8	





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. -0.00 min

Lab File: VN053332.D

Acq: 10 Jan 2019 9:30

Instrument :

MSVOA_N

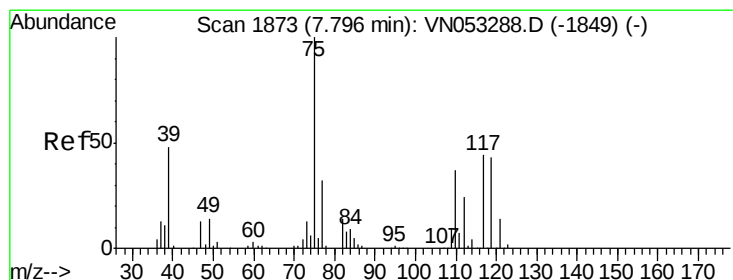
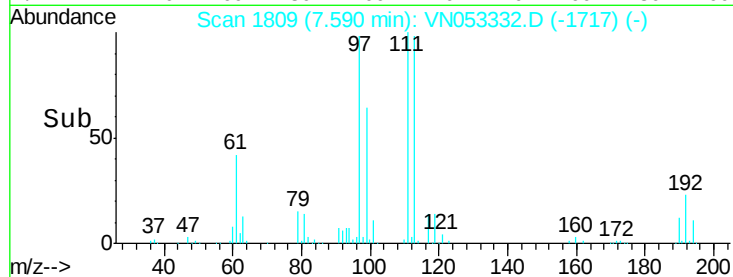
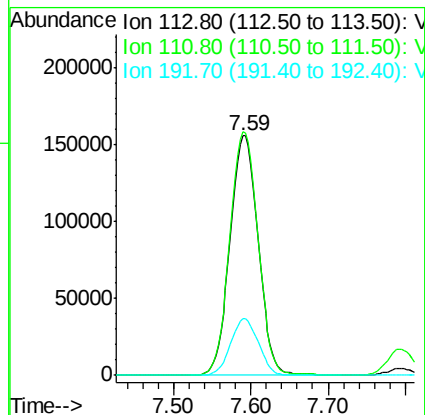
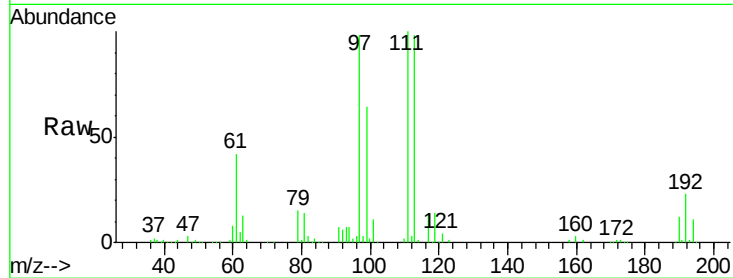
ClientSampleId :

VSTDCCC050

Tot Ion:	113	Resp:	393390
Ion Ratio	Lower	Upper	
113	100		
111	101.2	81.4	122.2
192	23.2	17.9	26.9

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#36

1,1-Dichloropropene

Concen: 49.670 ug/l

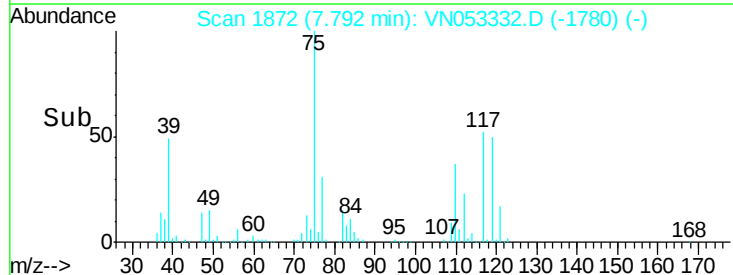
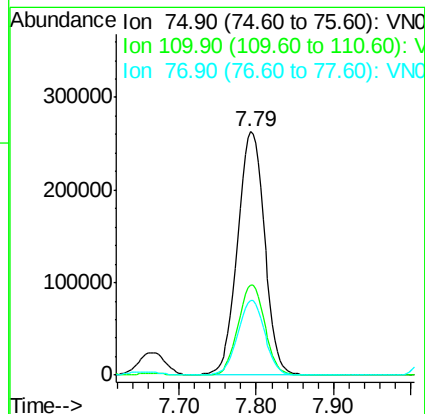
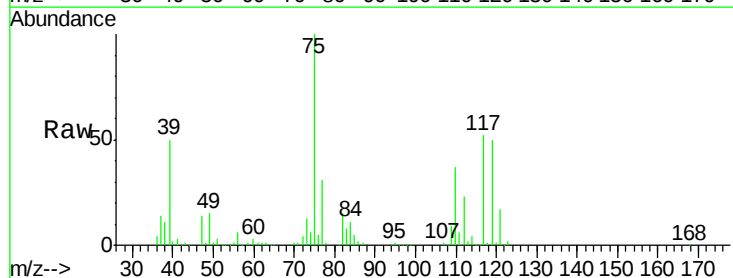
RT: 7.79 min Scan# 1872

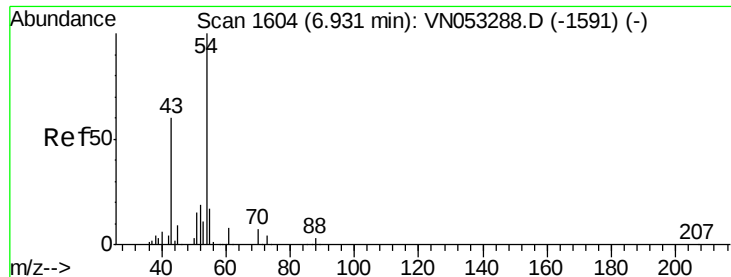
Delta R.T. -0.00 min

Lab File: VN053332.D

Acq: 10 Jan 2019 9:30

Tgt Ion:	75	Resp:	635720
Ion Ratio	Lower	Upper	
75	100		
110	36.5	18.4	55.0
77	30.8	25.3	37.9





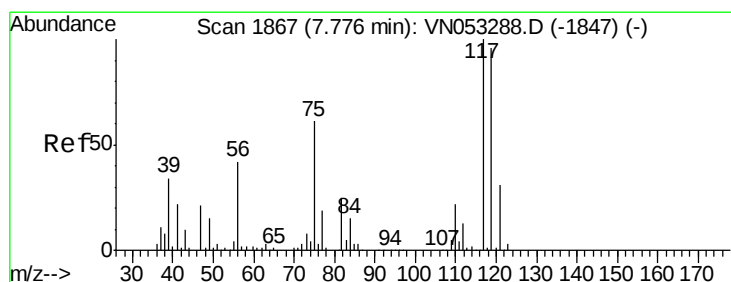
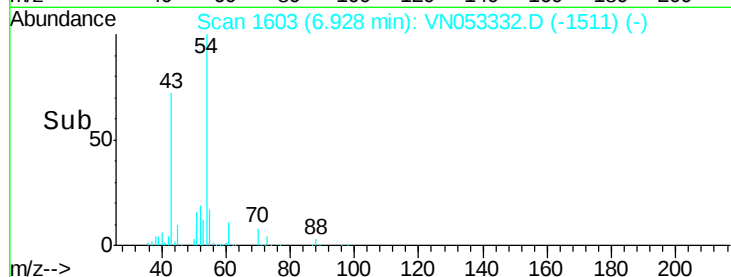
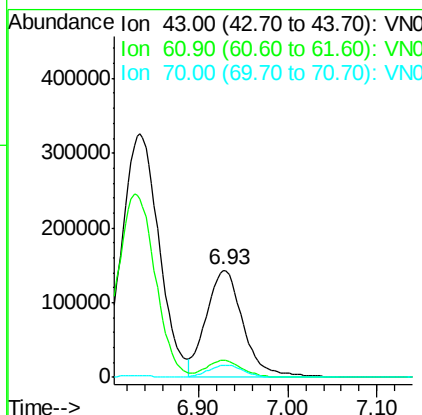
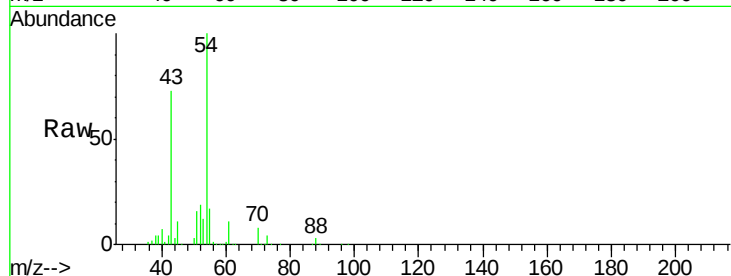
#37
Ethyl Acetate
Concen: 48.623 ug/l
RT: 6.93 min Scan# 1603
Delta R.T. -0.00 min
Lab File: VN053332.D
Acq: 10 Jan 2019 9:30

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
43	100			
61	15.1	11.9	17.9	
70	11.0	8.6	13.0	

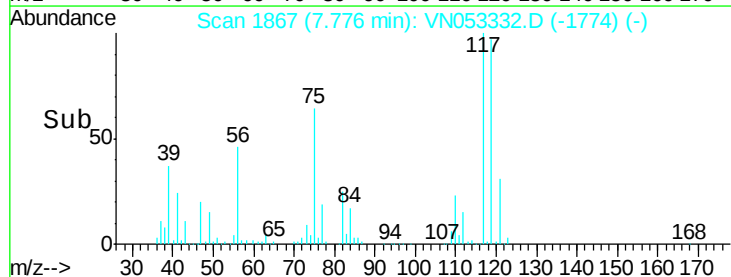
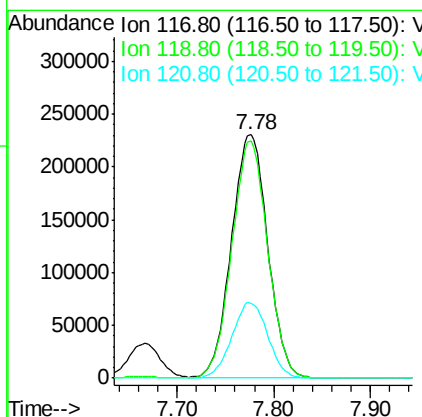
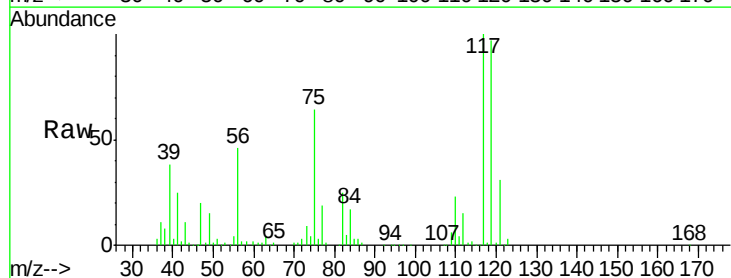
Manual Integrations
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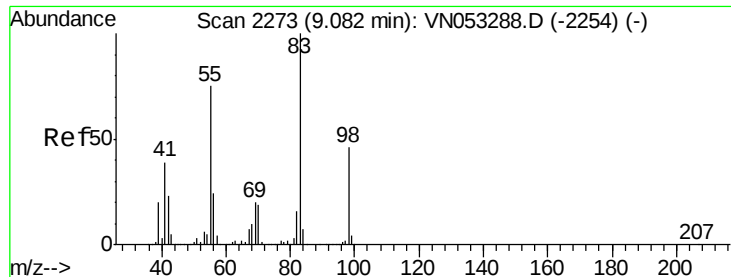
MMDadoda
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#38
Carbon Tetrachloride
Concen: 50.563 ug/l
RT: 7.78 min Scan# 1867
Delta R.T. 0.00 min
Lab File: VN053332.D
Acq: 10 Jan 2019 9:30

Tgt Ion	Ratio	Resp	Lower	Upper
117	100			
119	97.5	76.6	115.0	
121	31.0	25.0	37.4	





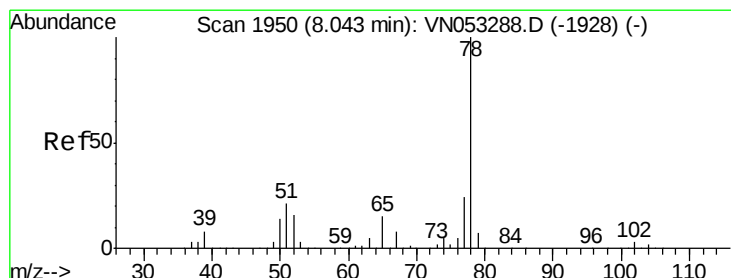
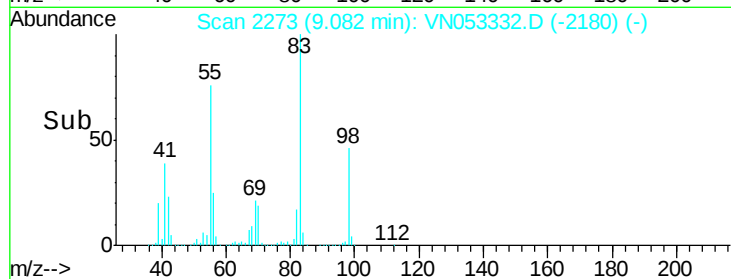
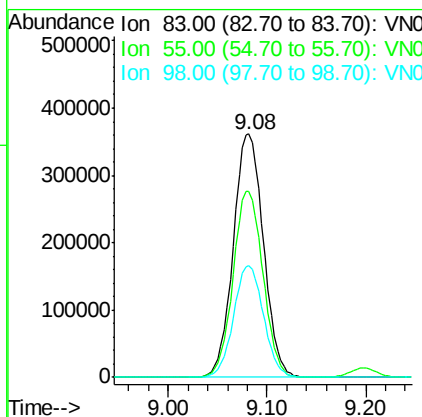
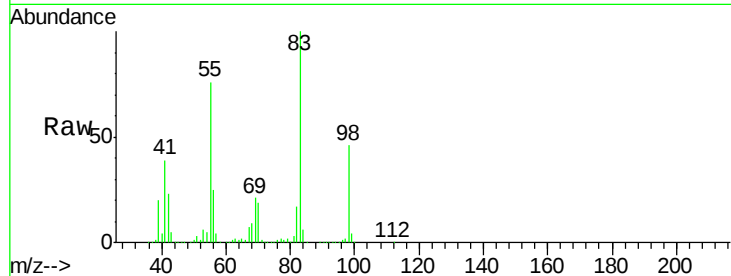
#39
Methvlcvclohexane
Concen: 51.751 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN053332.D
Acq: 10 Jan 2019 9:30

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
83	100		
55	76.2	60.1	90.1
98	46.2	36.7	55.1

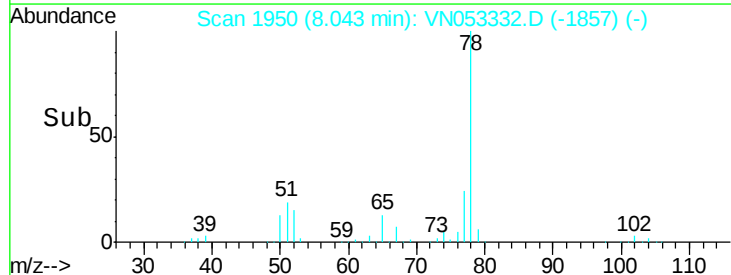
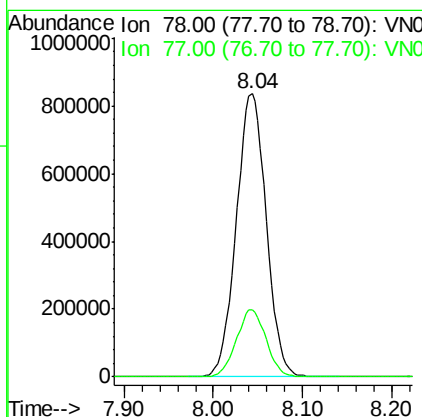
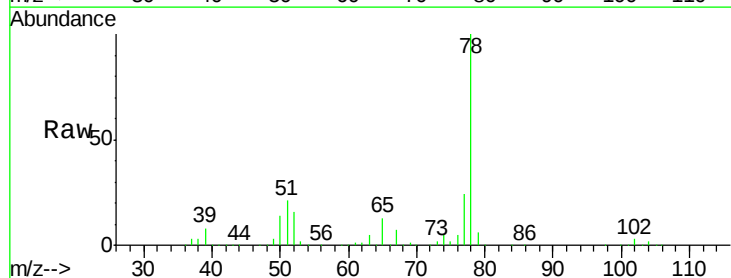
Manual Integrations
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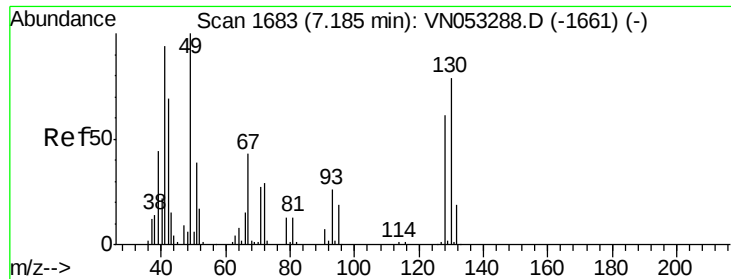
MMDadoda
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#40
Benzene
Concen: 49.824 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN053332.D
Acq: 10 Jan 2019 9:30

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.8	19.0	28.4





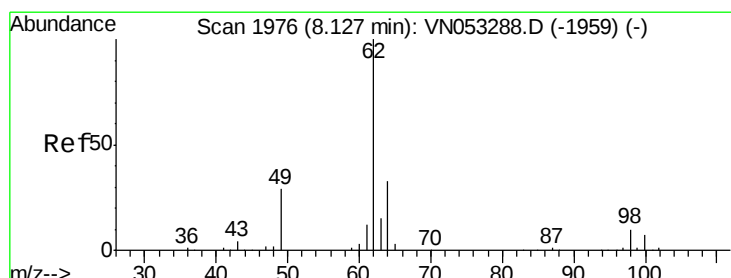
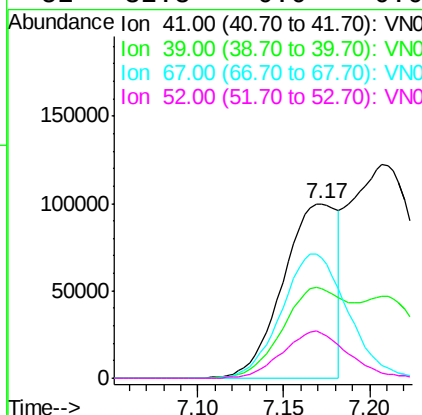
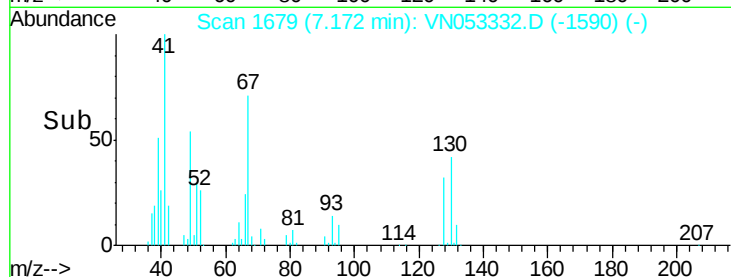
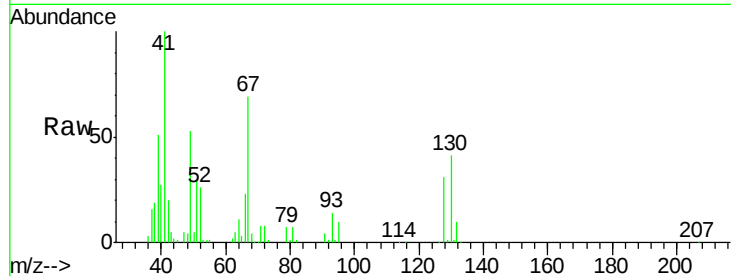
#41
Methacrylonitrile
Concen: 41.993 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. -0.01 min
Lab File: VN053332.D
Acq: 10 Jan 2019 9:30

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
41	100		
39	63.4	0.0	0.0#
67	88.0	0.0	0.0#
52	32.8	0.0	0.0#

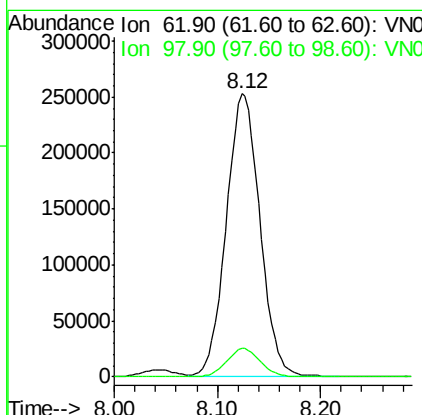
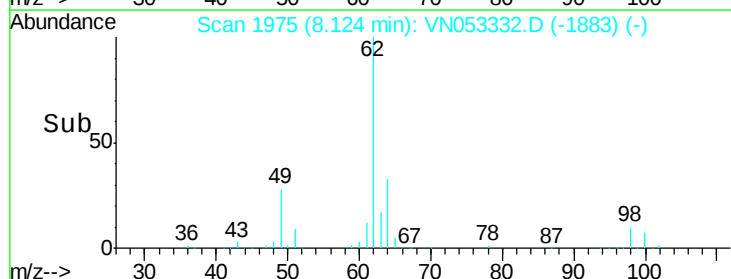
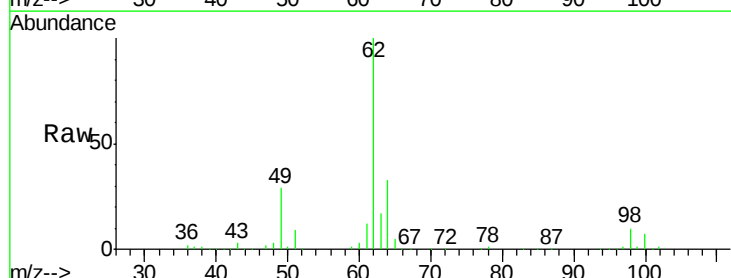
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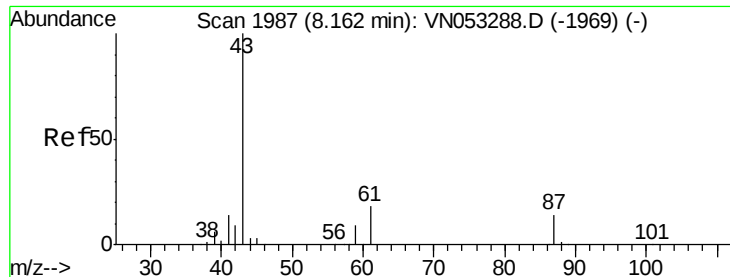
MMDadoda
1/11/2019 10:11:34 AM



#42
1,2-Dichloroethane
Concen: 49.380 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. -0.00 min
Lab File: VN053332.D
Acq: 10 Jan 2019 9:30

Tgt Ion	Ratio	Lower	Upper
62	100		
98	10.1	0.0	20.2





#43

Isopropyl Acetate

Concen: 44.640 ug/l

RT: 8.16 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN053332.D

Acq: 10 Jan 2019 9:30

Instrument :

MSVOA_N

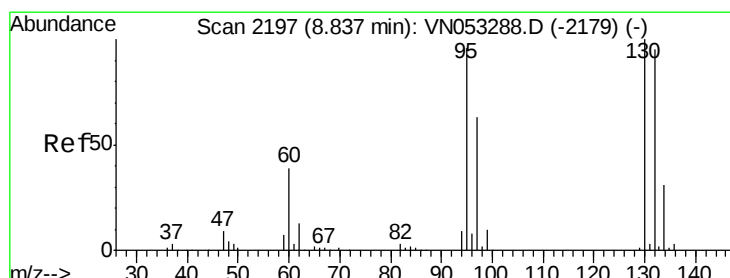
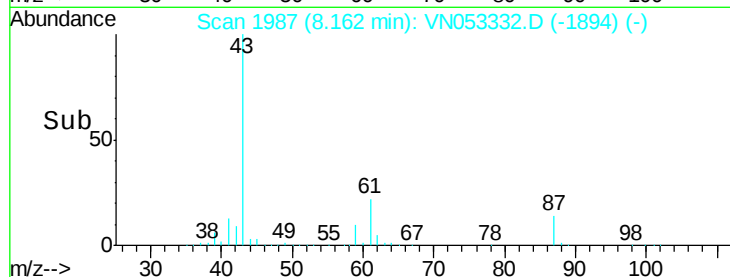
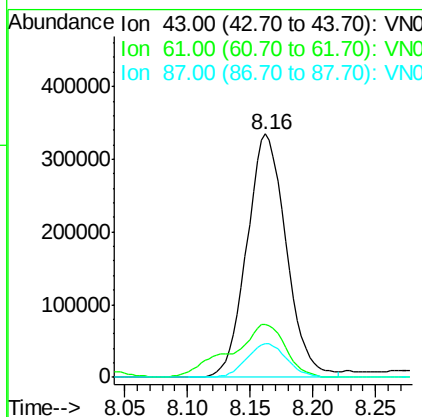
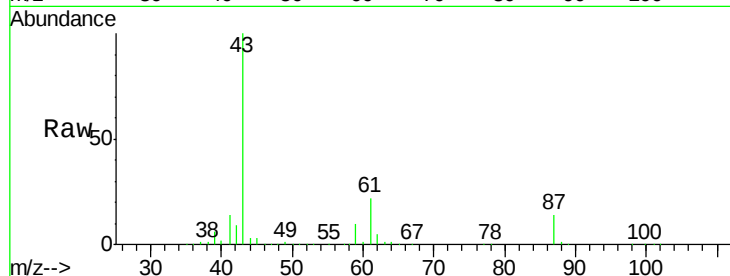
ClientSampleId :

VSTDCCC050

Tot Ion:	43	Resp:	732099
Ion	Ratio	Lower	Upper
43	100		
61	30.0	23.3	34.9
87	14.0	10.8	16.2

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#44

Trichloroethene

Concen: 49.947 ug/l

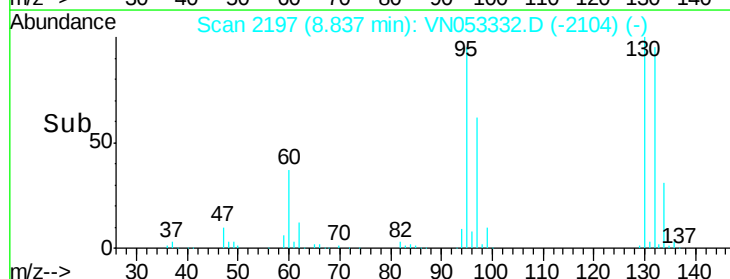
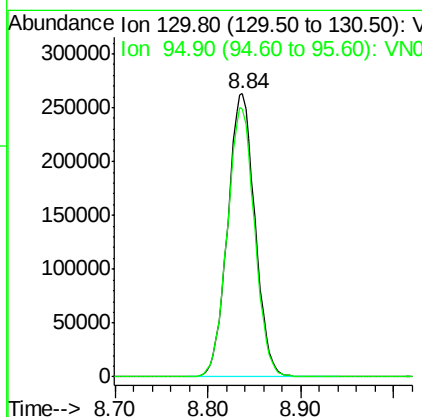
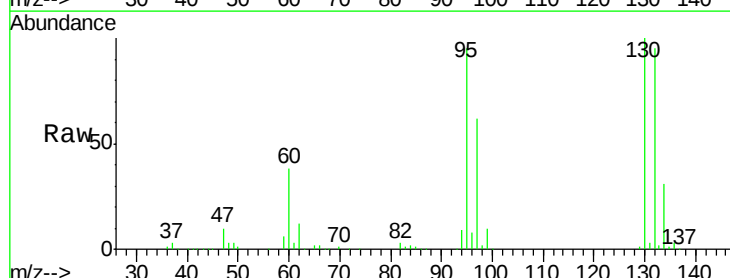
RT: 8.84 min Scan# 2197

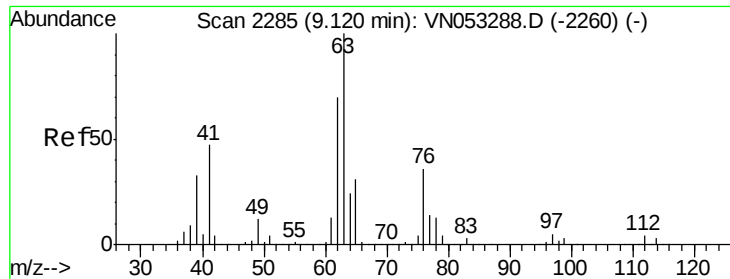
Delta R.T. 0.00 min

Lab File: VN053332.D

Acq: 10 Jan 2019 9:30

Tgt Ion:	130	Resp:	536183
Ion	Ratio	Lower	Upper
130	100		
95	94.9	0.0	191.8





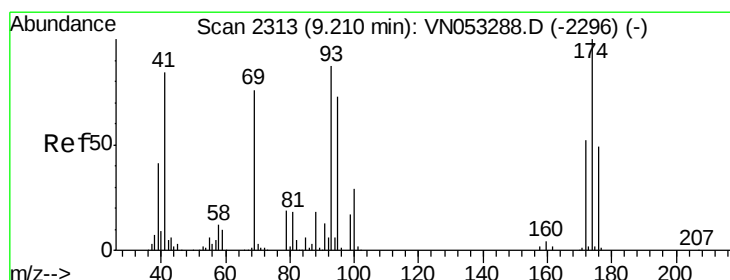
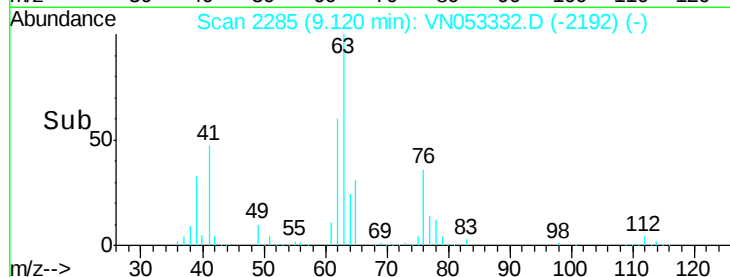
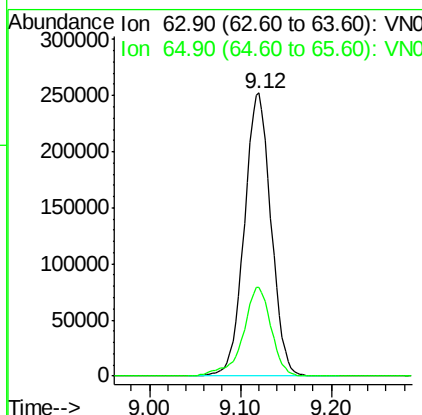
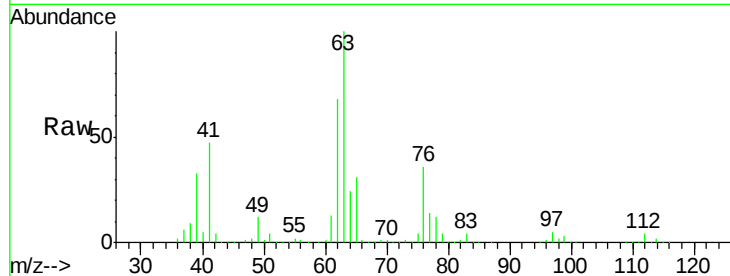
#45
 1,2-Dichloropropane
 Concen: 50.117 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN053332.D
 Acq: 10 Jan 2019 9:30

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion: 63 Resp: 513889
 Ion Ratio Lower Upper
 63 100
 65 31.3 25.0 37.6

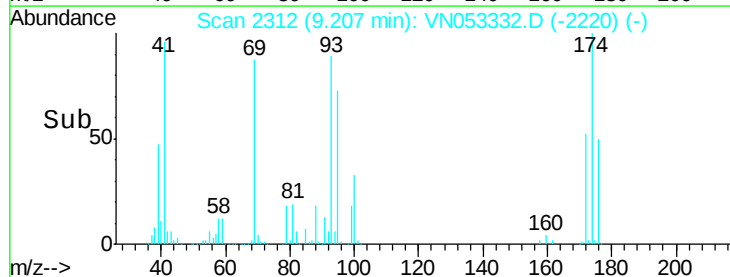
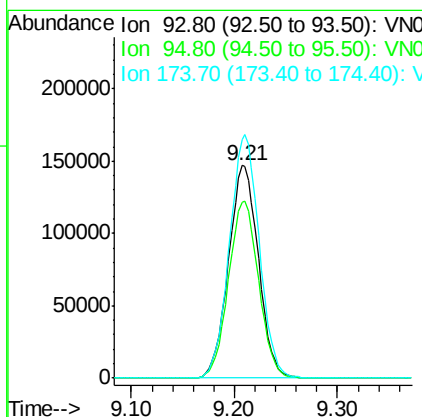
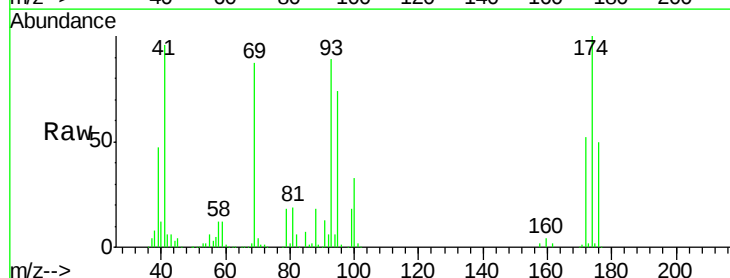
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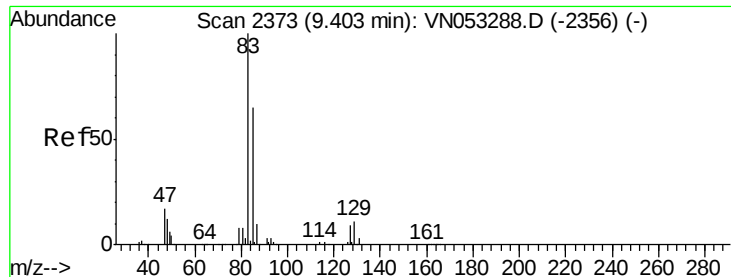
MMDadoda
 1/11/2019 10:11:34 AM



#46
 Dibromomethane
 Concen: 49.684 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. -0.00 min
 Lab File: VN053332.D
 Acq: 10 Jan 2019 9:30

Tgt Ion: 93 Resp: 297046
 Ion Ratio Lower Upper
 93 100
 95 84.0 66.6 100.0
 174 114.1 91.4 137.0





#47

Bromodichloromethane

Concen: 50.822 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN053332.D

Acq: 10 Jan 2019 9:30

Instrument :

MSVOA_N

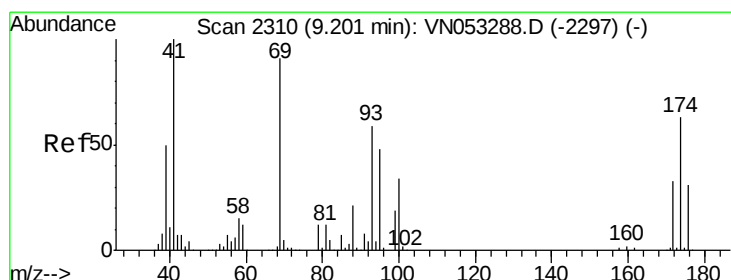
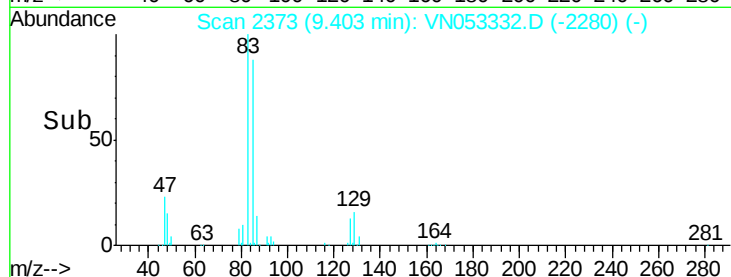
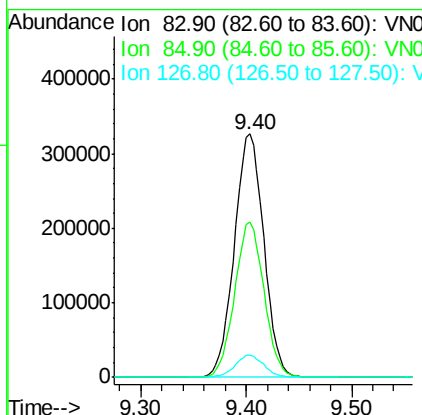
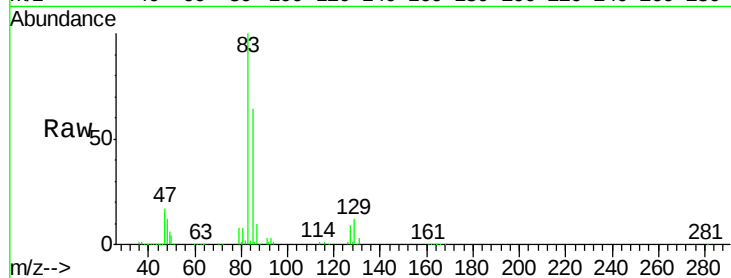
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	633195
Ion Ratio	Lower	Upper	
83	100		
85	63.6	51.7	77.5
127	9.0	7.0	10.6

Manual Integrations
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#48

Methyl methacrylate

Concen: 49.417 ug/l

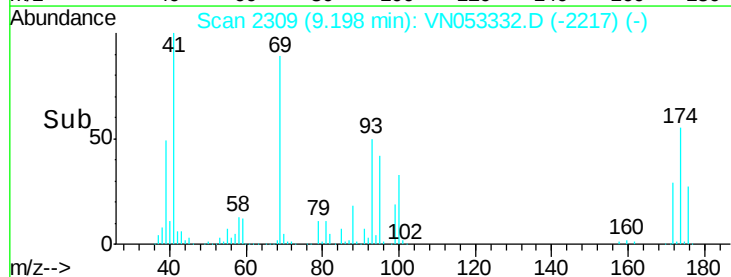
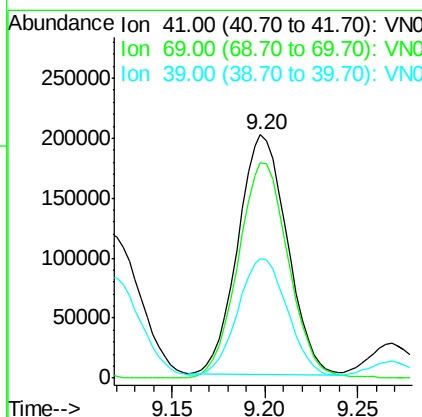
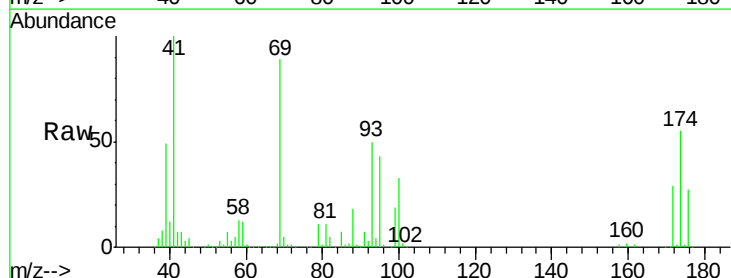
RT: 9.20 min Scan# 2309

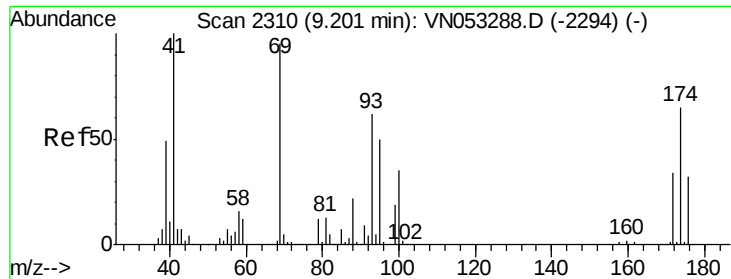
Delta R.T. -0.00 min

Lab File: VN053332.D

Acq: 10 Jan 2019 9:30

Tgt Ion:	41	Resp:	368196
Ion Ratio	Lower	Upper	
41	100		
69	92.2	73.5	110.3
39	51.5	41.6	62.4





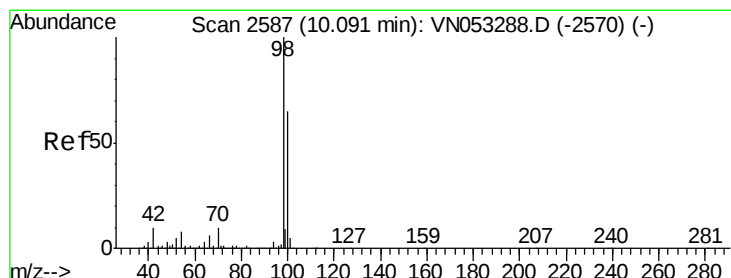
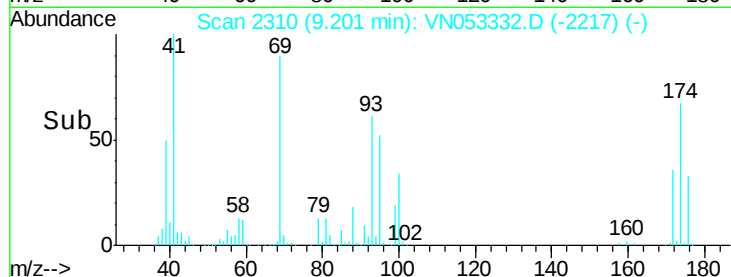
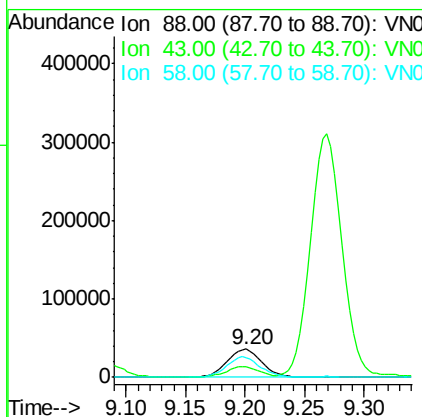
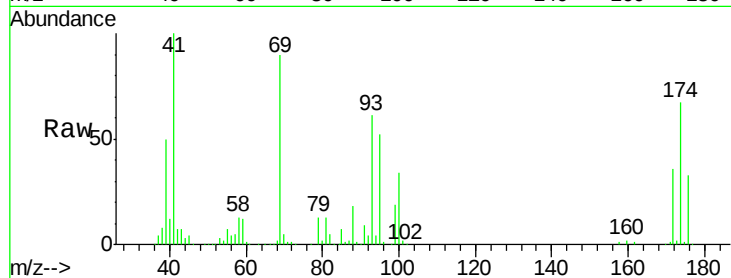
#49
1,4-Dioxane
Concen: 931.206 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN053332.D
Acq: 10 Jan 2019 9:30

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
88	100		
43	33.4	26.2	39.4
58	70.2	55.5	83.3

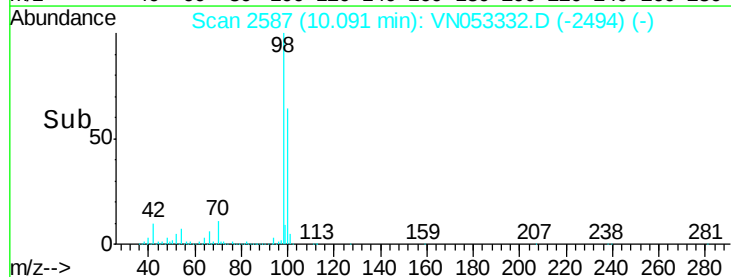
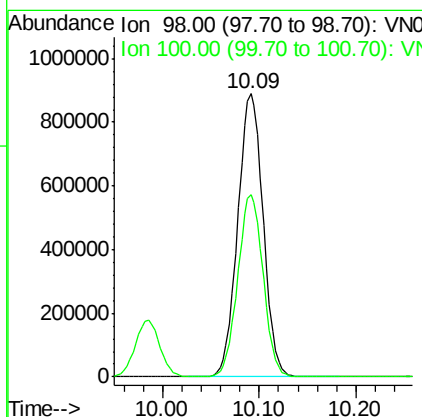
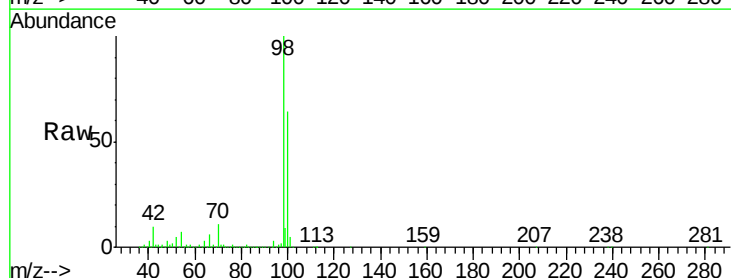
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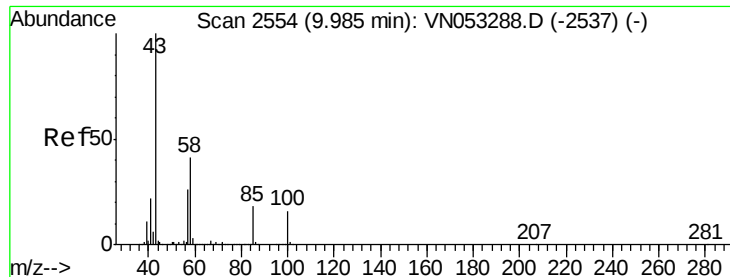
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#50
Toluene-d8
Concen: 931.206 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN053332.D
Acq: 10 Jan 2019 9:30

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.2	51.5	77.3





#51

4-Methyl-2-Pentanone

Concen: 247.279 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN053332.D

Acq: 10 Jan 2019 9:30

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 2039399

Ion Ratio Lower Upper

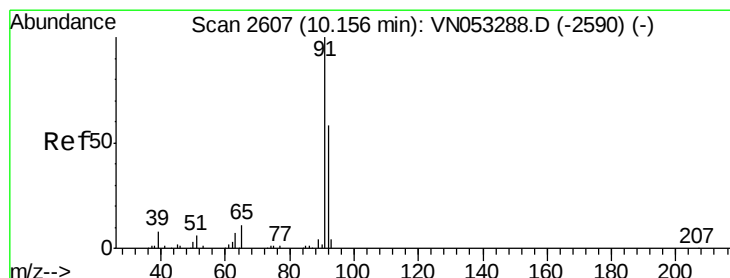
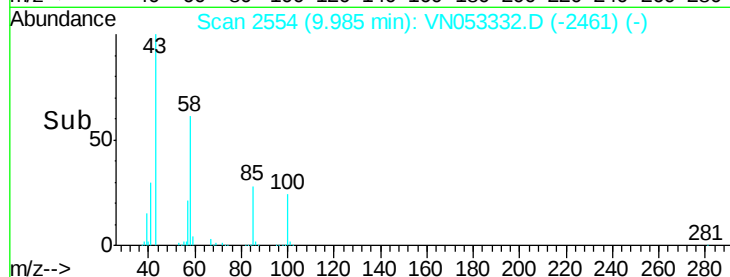
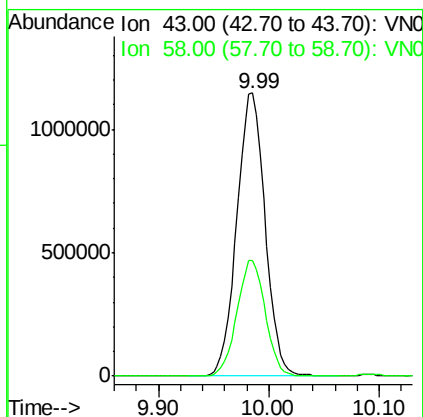
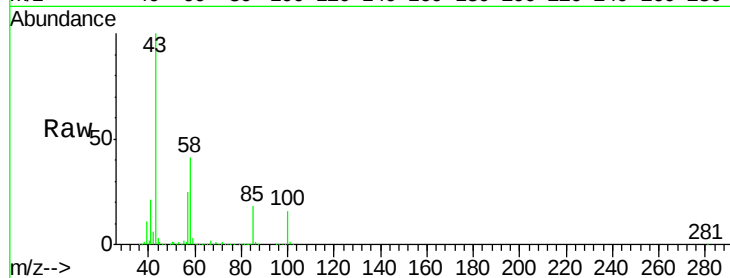
43 100

58 41.0 32.7 49.1

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#52

Toluene

Concen: 50.278 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN053332.D

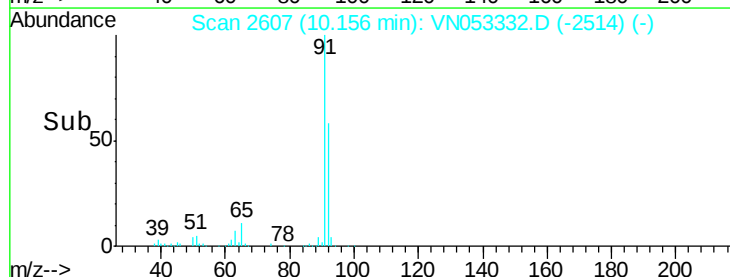
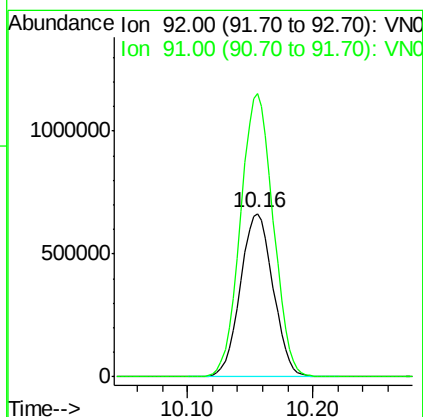
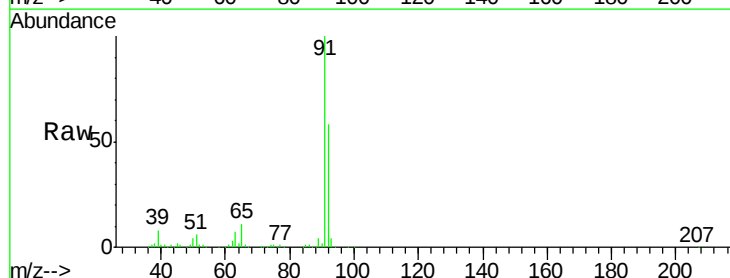
Acq: 10 Jan 2019 9:30

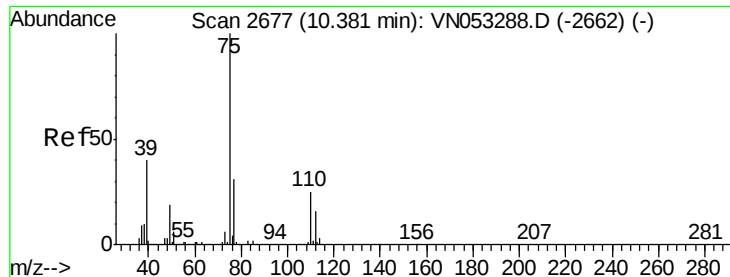
Tgt Ion: 92 Resp: 1205916

Ion Ratio Lower Upper

92 100

91 173.7 138.6 208.0





#53

t-1,3-Dichloropropene

Concen: 51.560 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. 0.00 min

Lab File: VN053332.D

Acq: 10 Jan 2019 9:30

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 75 Resp: 657155

Ion Ratio Lower Upper

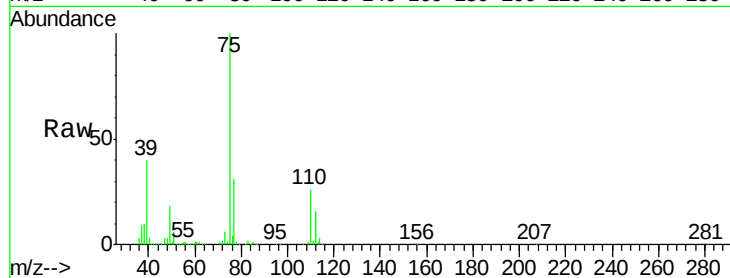
75 100

77 31.2 25.0 37.4

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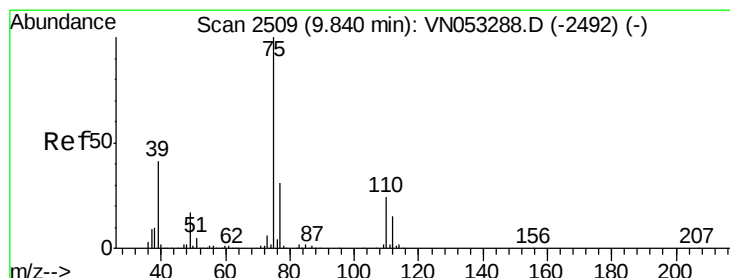
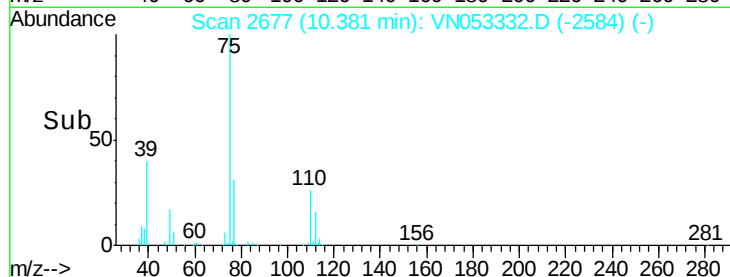
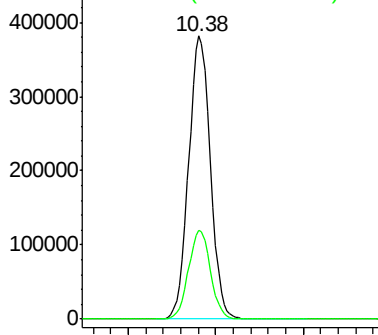
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Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



#54

cis-1,3-Dichloropropene

Concen: 51.770 ug/l

RT: 9.84 min Scan# 2509

Delta R.T. 0.00 min

Lab File: VN053332.D

Acq: 10 Jan 2019 9:30

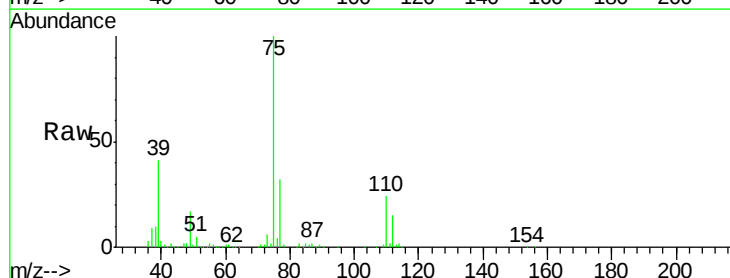
Tgt Ion: 75 Resp: 762489

Ion Ratio Lower Upper

75 100

77 32.1 25.1 37.7

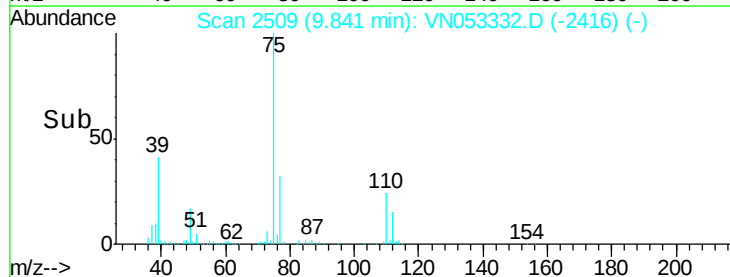
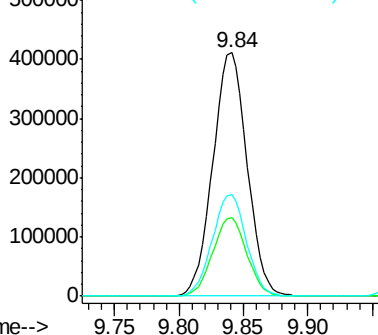
39 41.4 33.1 49.7

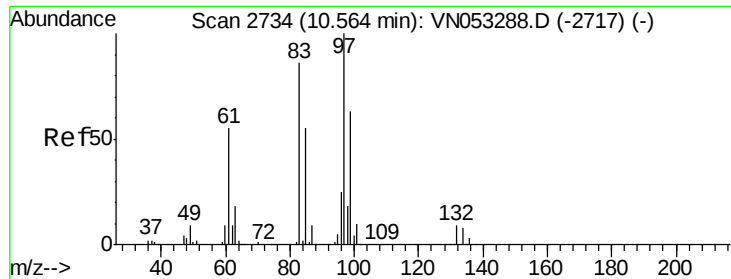


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#55

1,1,2-Trichloroethane

Concen: 49.385 ug/l

RT: 10.56 min Scan# 2733

Delta R.T. -0.00 min

Lab File: VN053332.D

Acq: 10 Jan 2019 9:30

Instrument :

MSVOA_N

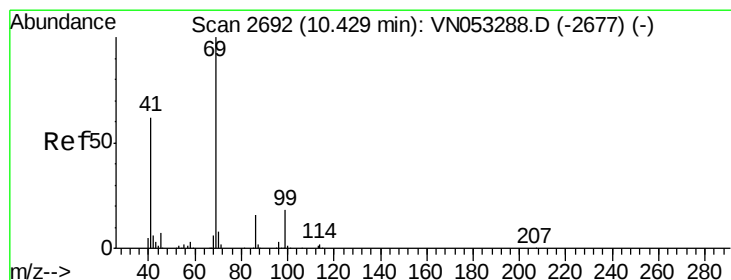
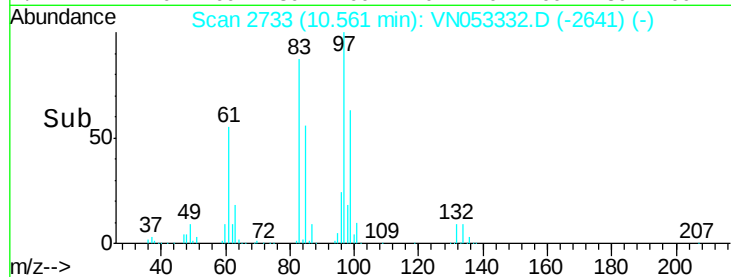
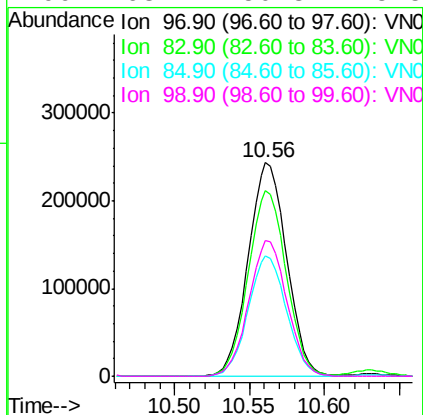
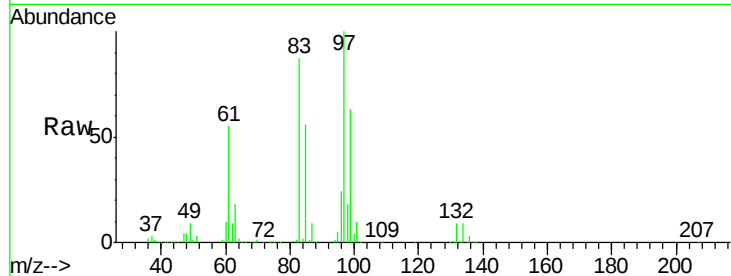
ClientSampleId :

VSTDCCC050

Tot Ion:	97	Resp:	435533
Ion	Ratio	Lower	Upper
97	100		
83	87.0	69.1	103.7
85	56.5	44.2	66.4
99	63.4	50.3	75.5

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#56

Ethyl methacrylate

Concen: 51.249 ug/l

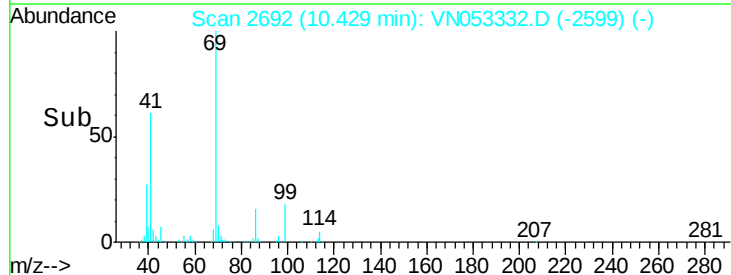
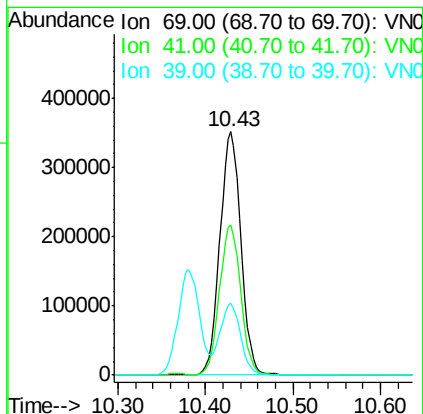
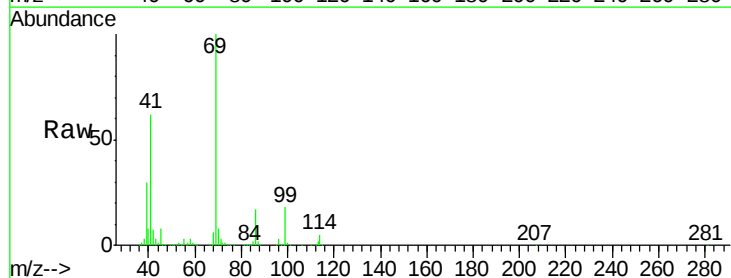
RT: 10.43 min Scan# 2692

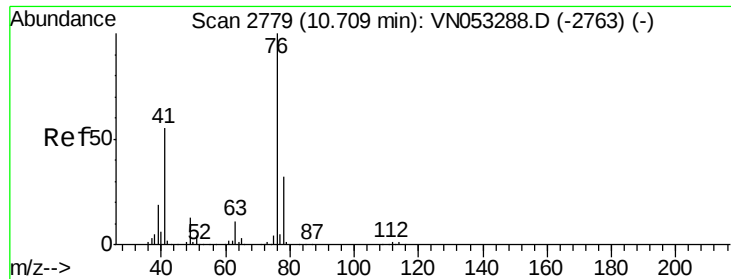
Delta R.T. 0.00 min

Lab File: VN053332.D

Acq: 10 Jan 2019 9:30

Tgt Ion:	69	Resp:	587351
Ion	Ratio	Lower	Upper
69	100		
41	61.8	49.2	73.8
39	28.8	23.4	35.0





#57

1,3-Dichloropropane

Concen: 50.274 ug/l

RT: 10.71 min Scan# 2778

Delta R.T. -0.00 min

Lab File: VN053332.D

Acq: 10 Jan 2019 9:30

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 76 Resp: 741455

Ion Ratio Lower Upper

76 100

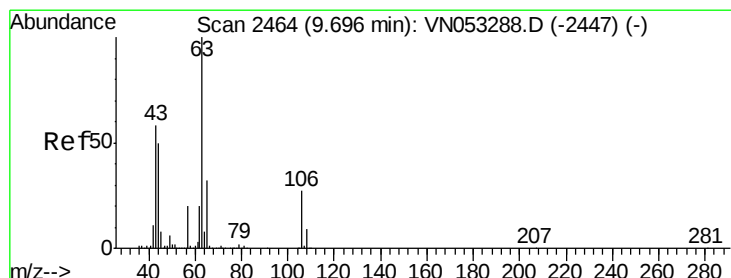
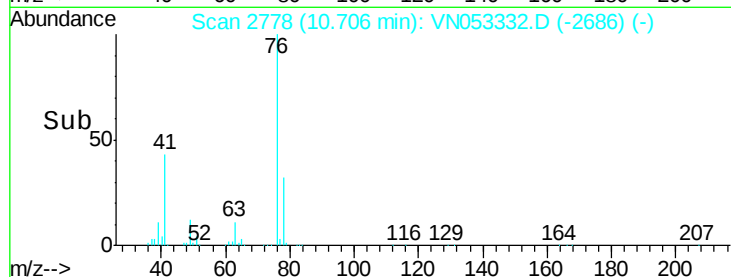
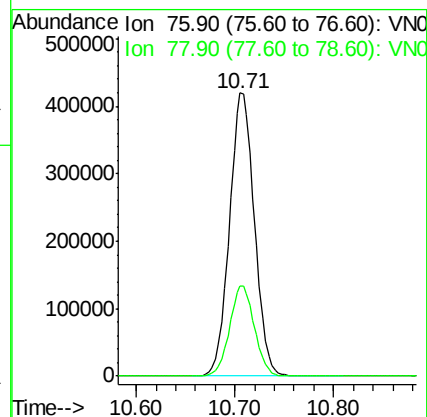
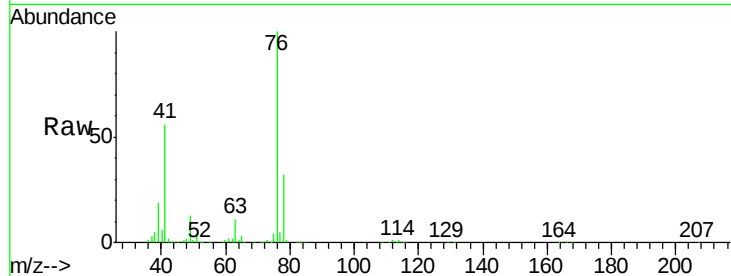
78 31.8 25.8 38.8

Manual Integrations

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#58

2-Chloroethyl Vinyl ether

Concen: 228.968 ug/l

RT: 9.69 min Scan# 2463

Delta R.T. -0.00 min

Lab File: VN053332.D

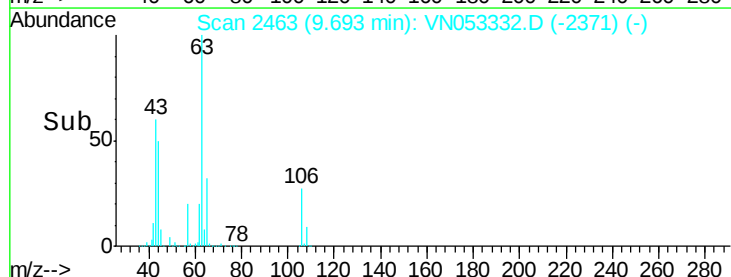
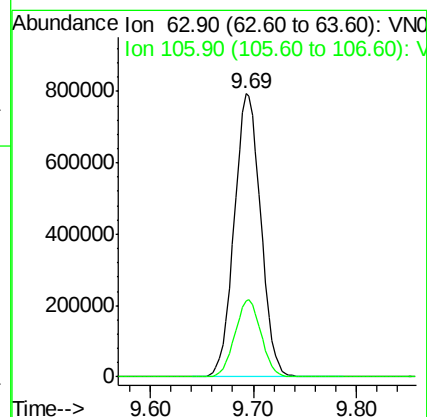
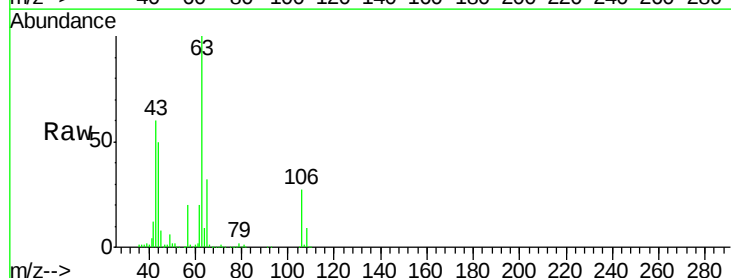
Acq: 10 Jan 2019 9:30

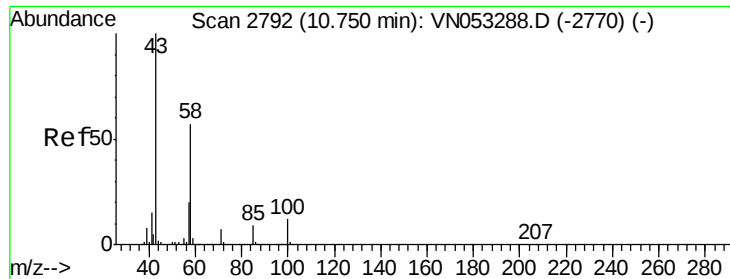
Tgt Ion: 63 Resp: 1418659

Ion Ratio Lower Upper

63 100

106 27.0 21.7 32.5





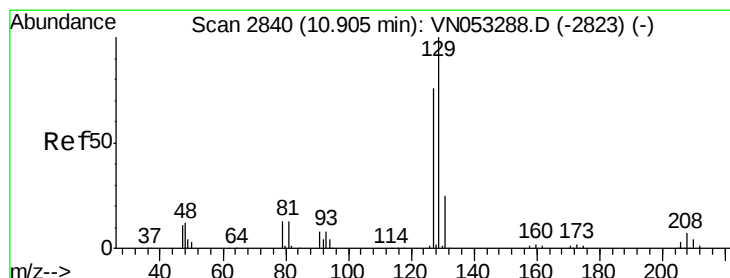
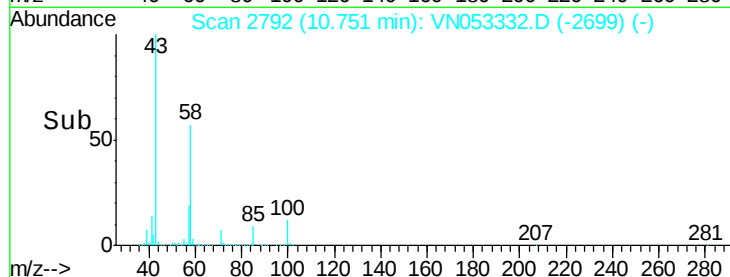
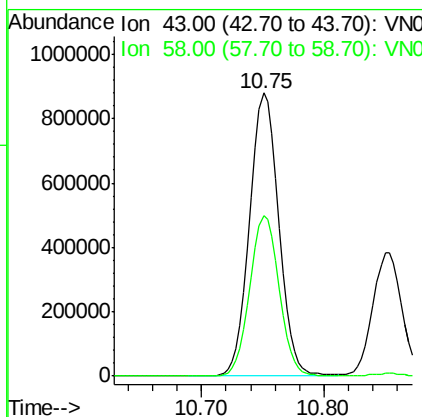
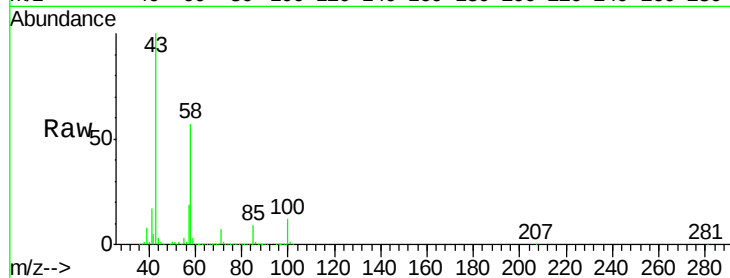
#59
2-Hexanone
Concen: 255.448 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN053332.D
Acq: 10 Jan 2019 9:30

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 1443476
Ion Ratio Lower Upper
43 100
58 57.0 28.3 85.0

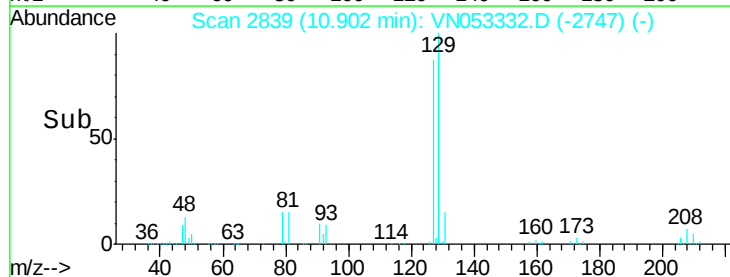
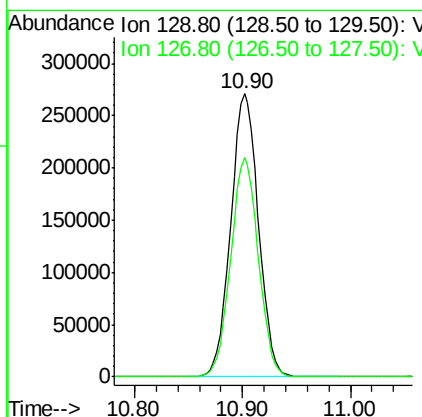
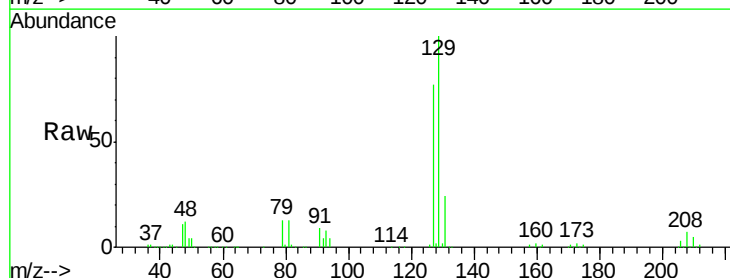
Manual Integrations
APPROVED

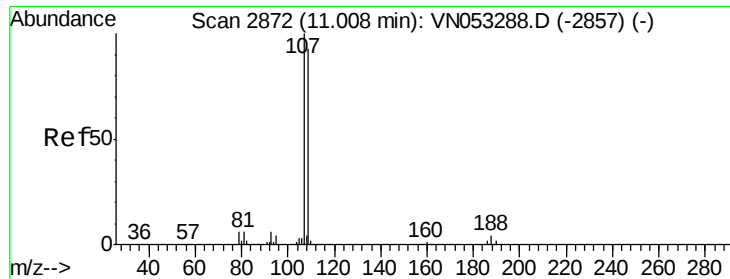
MMDadoda
1/11/2019 10:11:34 AM



#60
Dibromochloromethane
Concen: 51.018 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. -0.00 min
Lab File: VN053332.D
Acq: 10 Jan 2019 9:30

Tgt Ion: 129 Resp: 485290
Ion Ratio Lower Upper
129 100
127 77.3 38.4 115.2





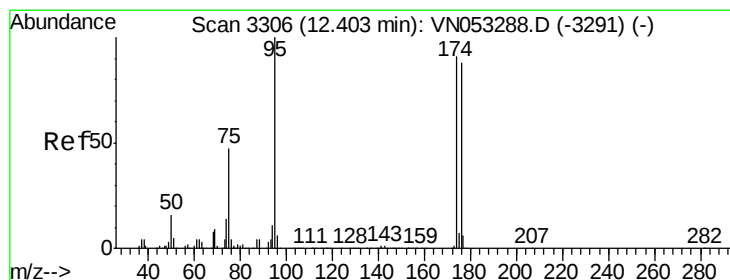
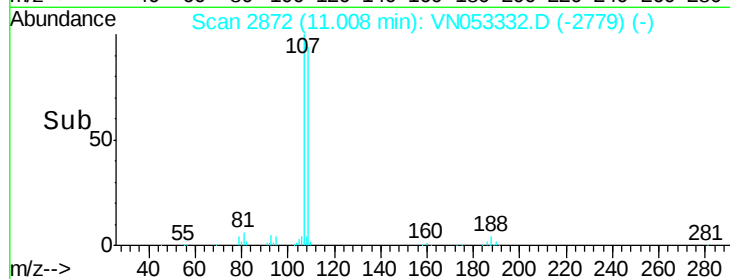
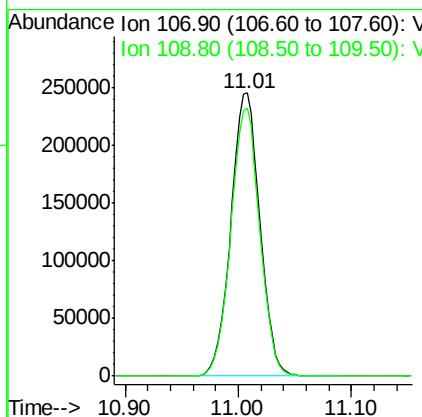
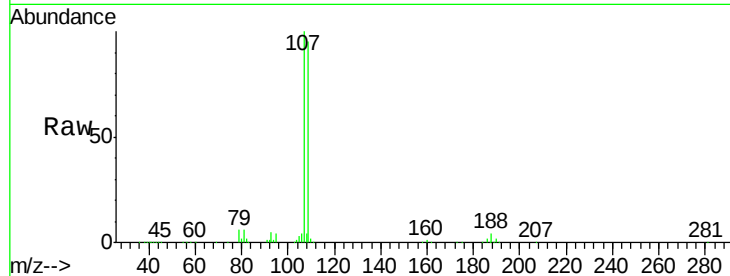
#61
 1,2-Dibromoethane
 Concen: 50.185 ug/l
 RT: 11.01 min Scan# 2872
 Delta R.T. 0.00 min
 Lab File: VN053332.D
 Acq: 10 Jan 2019 9:30

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion: 107 Resp: 436757
 Ion Ratio Lower Upper
 107 100
 109 94.5 75.0 112.6

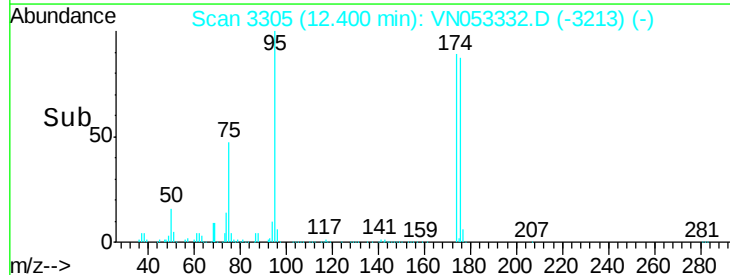
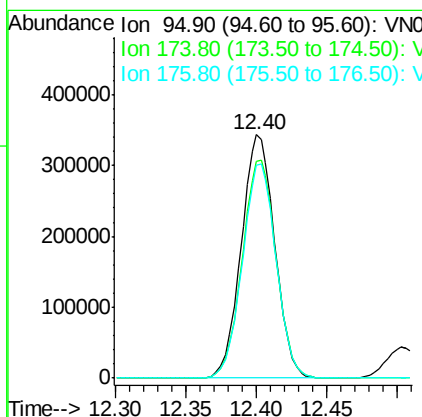
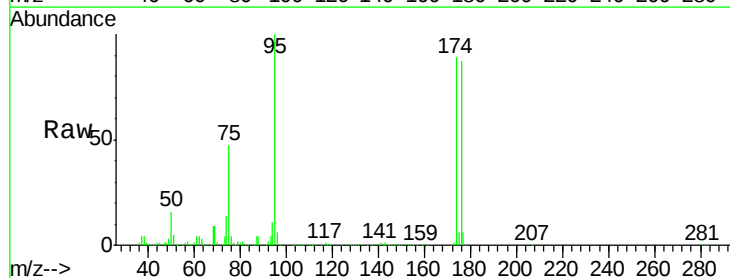
Manual Integrations
 APPROVED

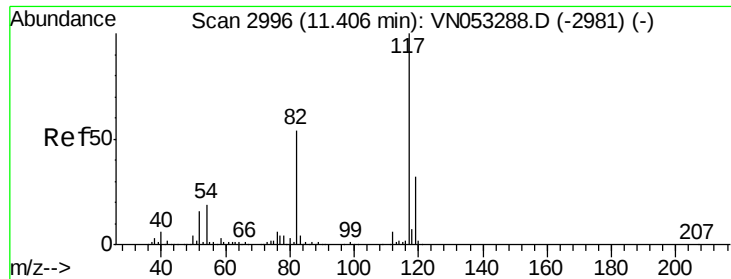
MMDadoda
 1/11/2019 10:11:34 AM



#62
 4-Bromofluorobenzene
 Concen: 50.185 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.00 min
 Lab File: VN053332.D
 Acq: 10 Jan 2019 9:30

Tgt Ion: 95 Resp: 570181
 Ion Ratio Lower Upper
 95 100
 174 90.5 0.0 180.4
 176 88.5 0.0 175.6





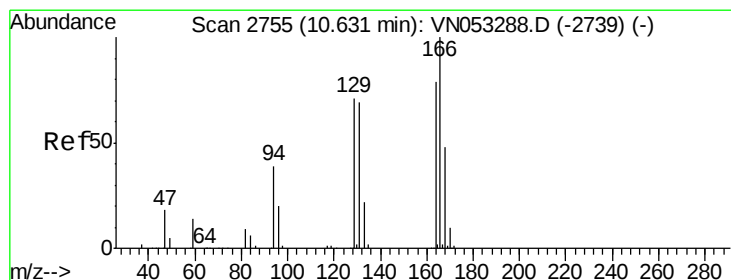
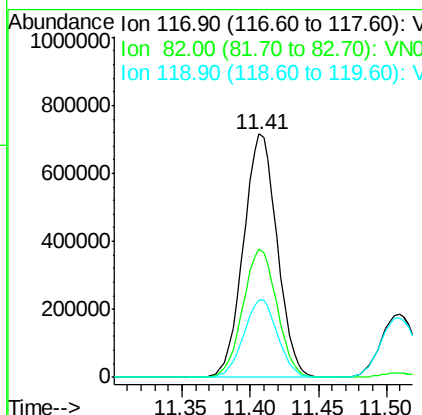
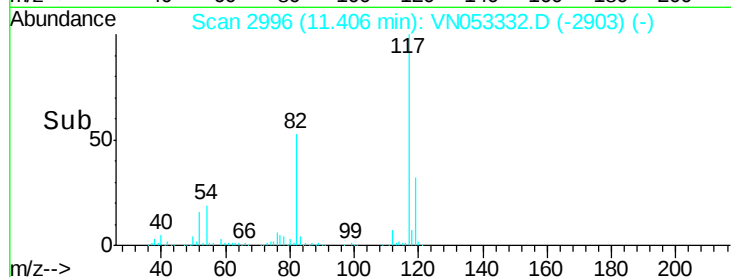
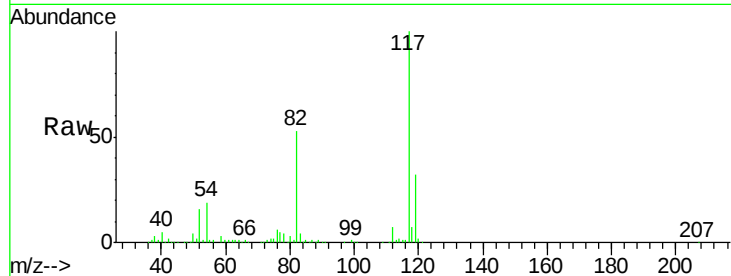
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN053332.D
Acq: 10 Jan 2019 9:30

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.5	42.9	64.3
119	31.9	25.6	38.4

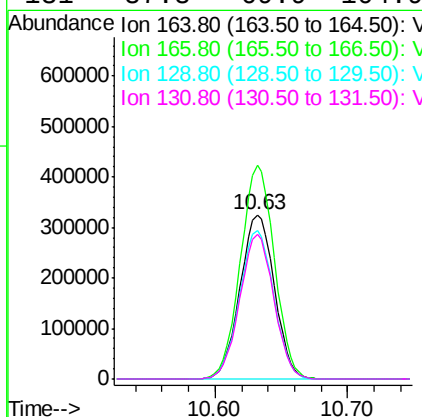
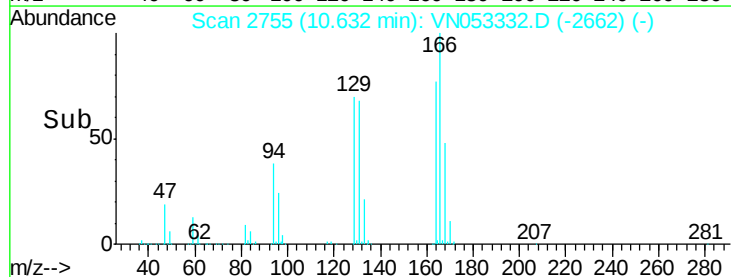
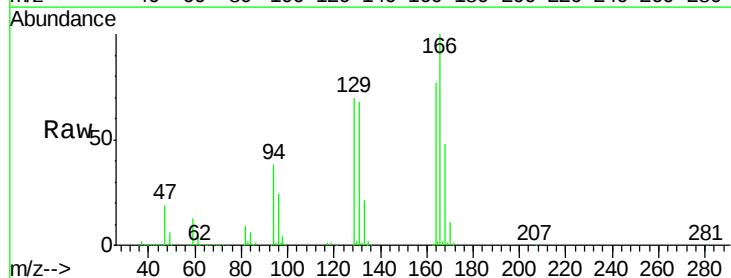
Manual Integrations
APPROVED

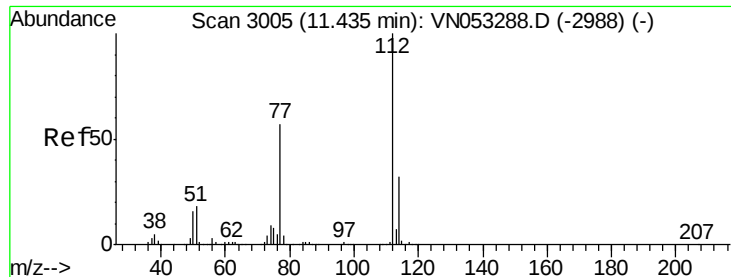
MMDadoda
1/11/2019 10:11:34 AM



#64
Tetrachloroethene
Concen: 50.618 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN053332.D
Acq: 10 Jan 2019 9:30

Tgt Ion	Ratio	Lower	Upper
164	100		
166	130.0	101.7	152.5
129	90.5	72.1	108.1
131	87.8	69.9	104.9





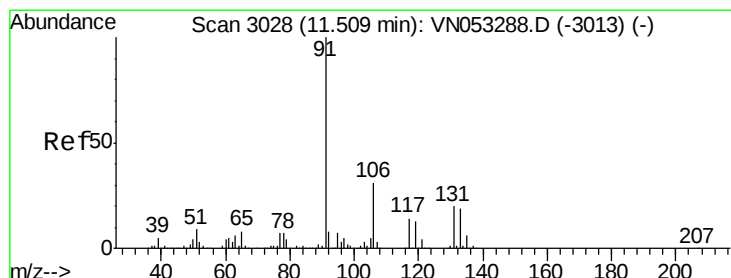
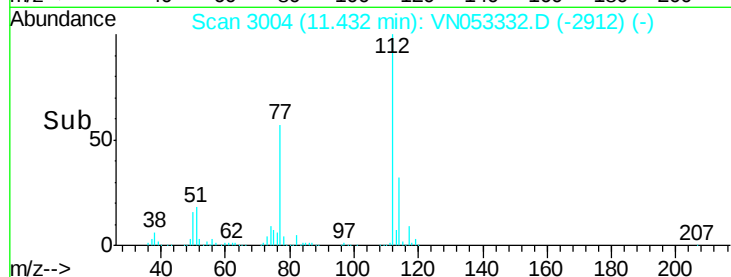
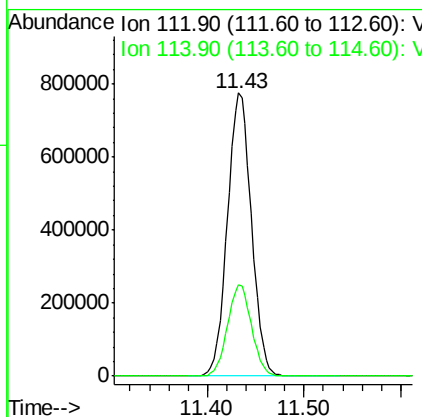
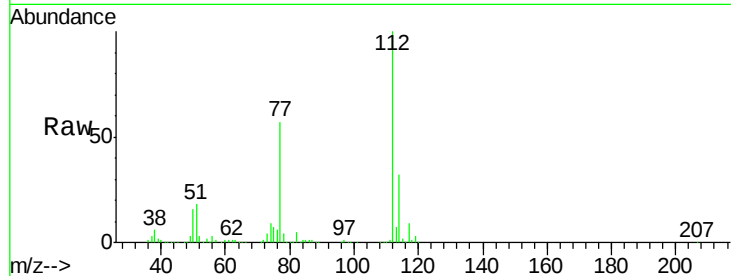
#65
Chlorobenzene
Concen: 49.899 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. -0.00 min
Lab File: VN053332.D
Acq: 10 Jan 2019 9:30

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion:112 Resp: 1330942
Ion Ratio Lower Upper
112 100
114 32.1 25.6 38.4

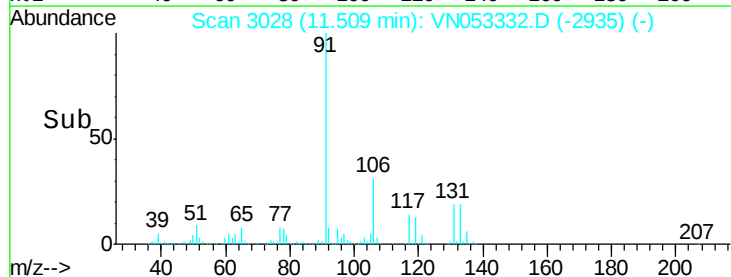
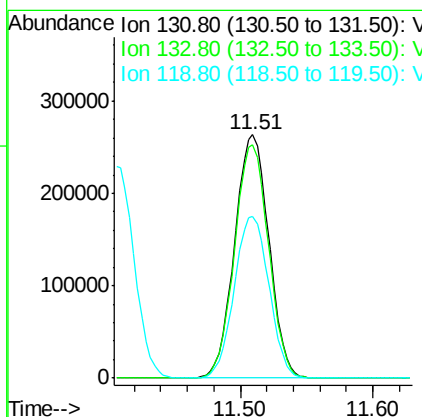
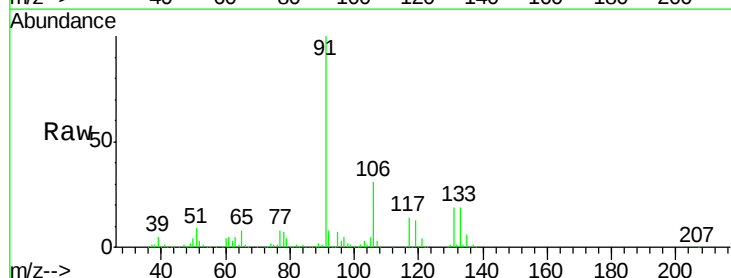
Manual Integrations
APPROVED

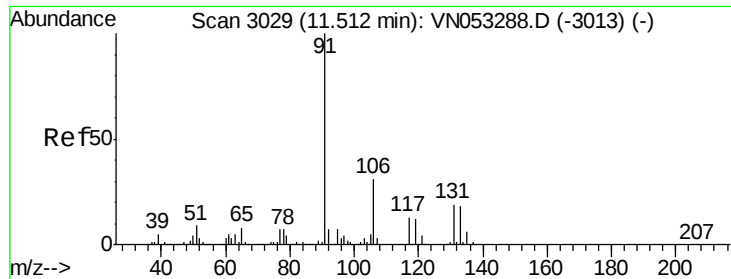
MMDadoda
1/11/2019 10:11:34 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 50.582 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN053332.D
Acq: 10 Jan 2019 9:30

Tgt Ion:131 Resp: 472222
Ion Ratio Lower Upper
131 100
133 95.3 48.0 144.0
119 67.4 33.3 99.9





#67

Ethyl Benzene

Concen: 50.783 ug/l

RT: 11.51 min Scan# 3029

Delta R.T. 0.00 min

Lab File: VN053332.D

Acq: 10 Jan 2019 9:30

Instrument :

MSVOA_N

ClientSampled :

VSTDCCC050

Tot Ion: 91 Resp: 2301653

Ion Ratio Lower Upper

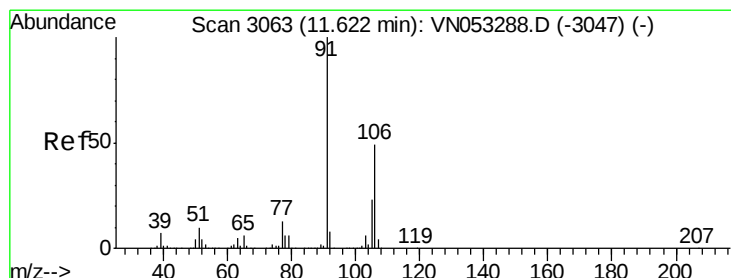
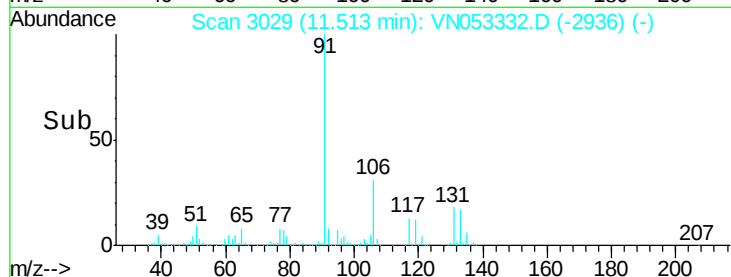
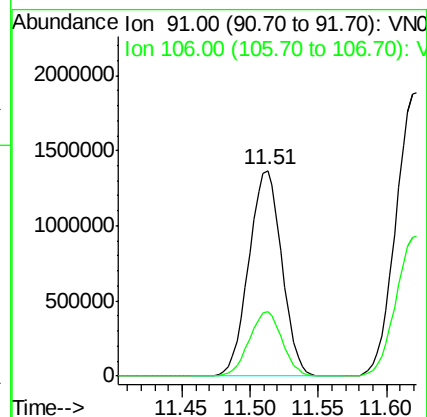
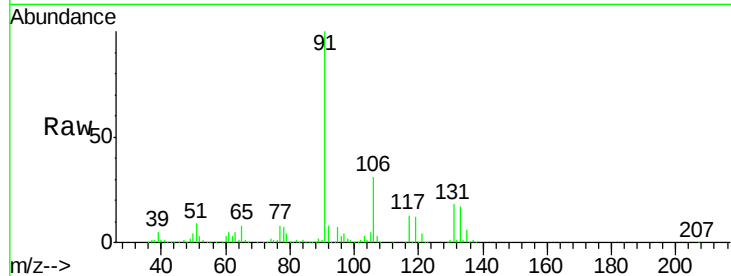
91 100

106 31.1 25.0 37.4

Manual Integrations
APPROVED

MMDadoda

1/11/2019 10:11:34 AM



#68

m/p-Xylenes

Concen: 102.701 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. 0.00 min

Lab File: VN053332.D

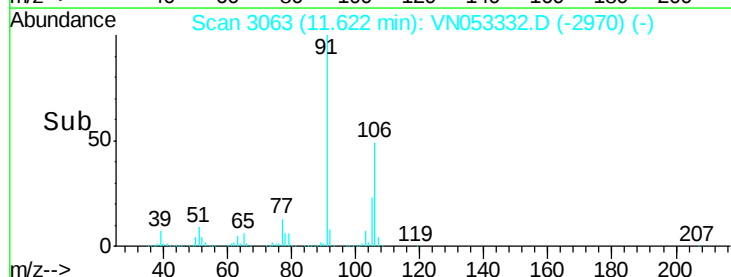
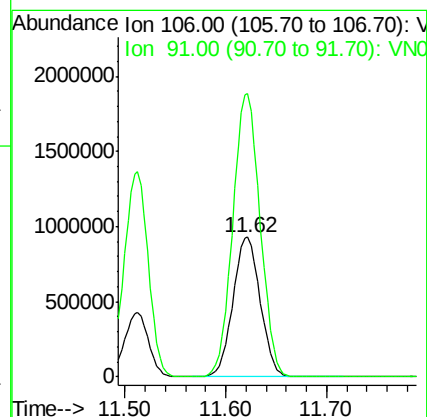
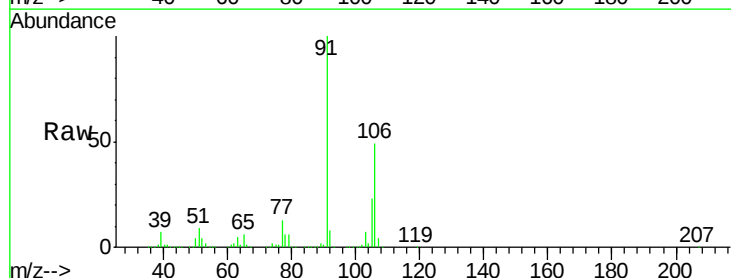
Acq: 10 Jan 2019 9:30

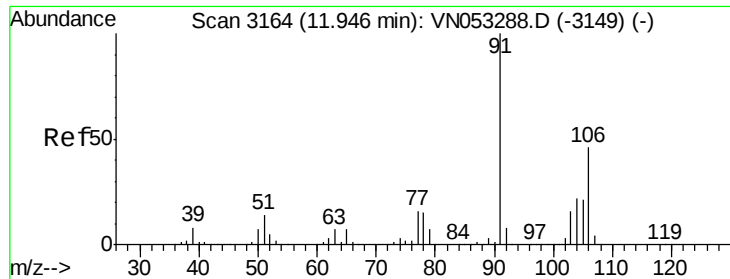
Tgt Ion: 106 Resp: 1750296

Ion Ratio Lower Upper

106 100

91 202.8 161.4 242.2





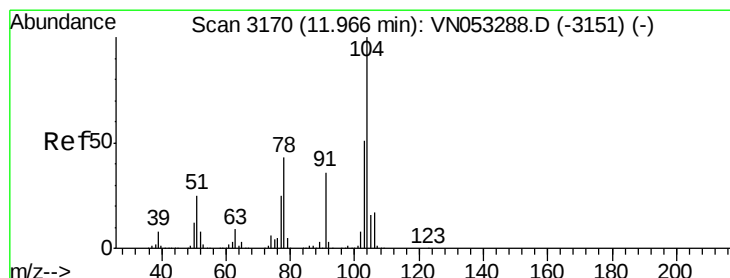
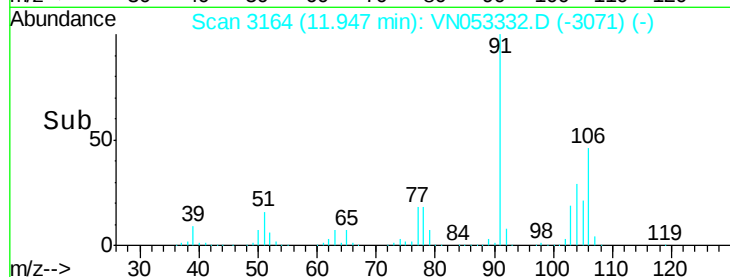
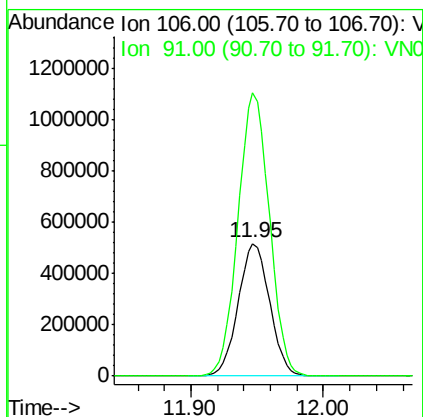
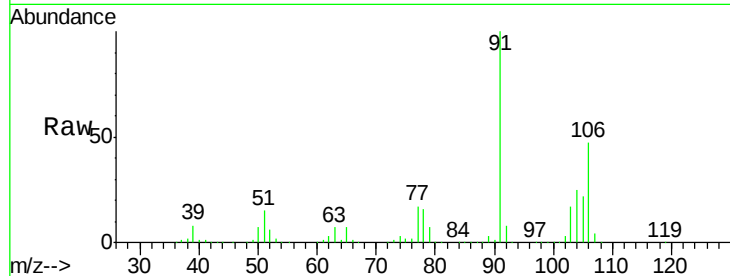
#69
o-Xylene
Concen: 51.187 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN053332.D
Acq: 10 Jan 2019 9:30

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion:106 Resp: 854052
Ion Ratio Lower Upper
106 100
91 213.2 106.8 320.4

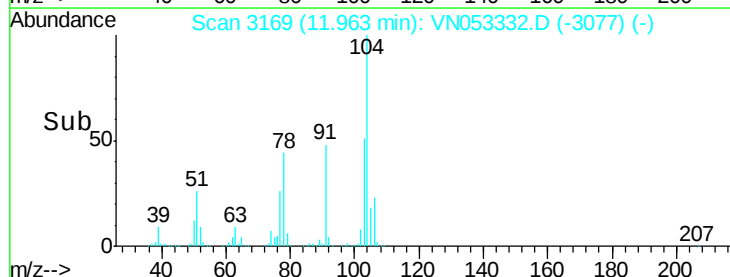
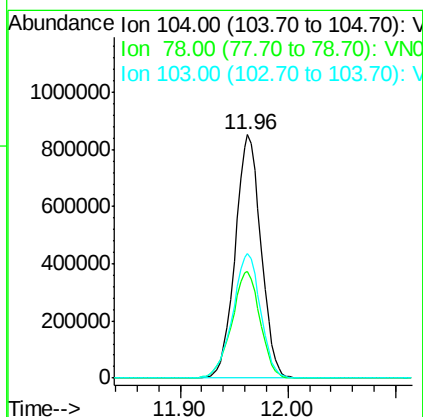
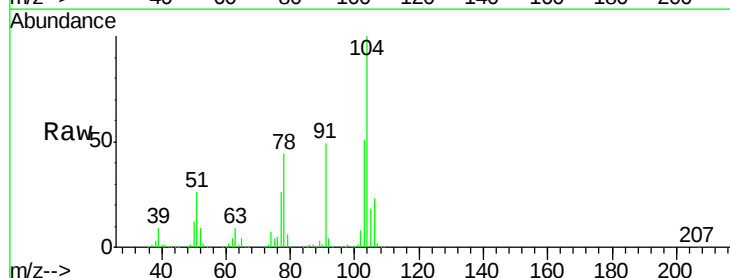
Manual Integrations
APPROVED

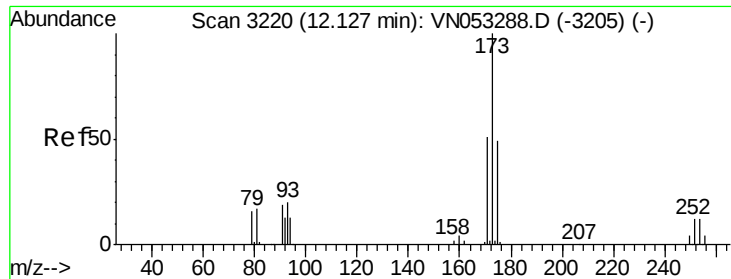
MMDadoda
1/11/2019 10:11:34 AM



#70
Styrene
Concen: 52.244 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN053332.D
Acq: 10 Jan 2019 9:30

Tgt Ion:104 Resp: 1418663
Ion Ratio Lower Upper
104 100
78 47.9 38.5 57.7
103 55.3 44.5 66.7





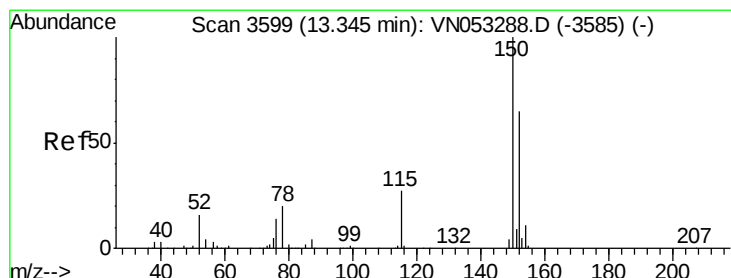
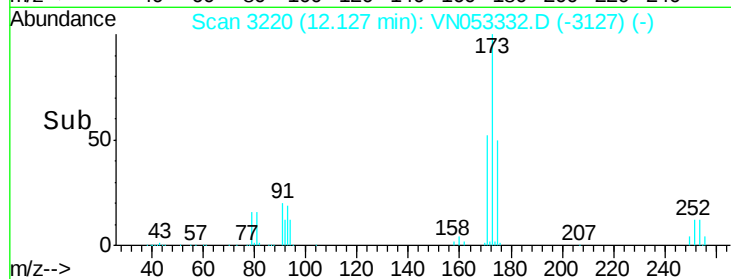
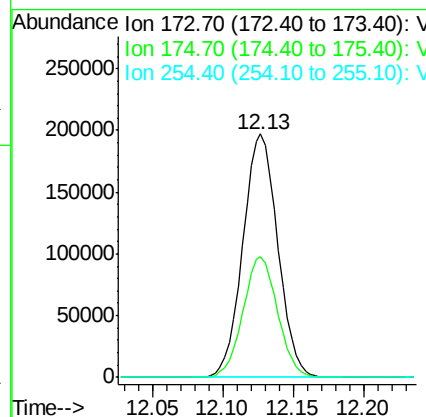
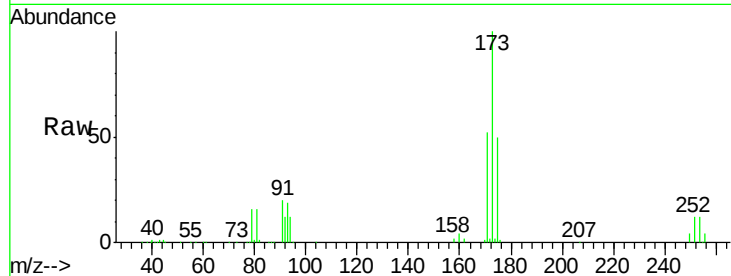
#71
Bromoform
Concen: 51.807 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN053332.D
Acq: 10 Jan 2019 9:30

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.3	24.3	72.8
254	0.1	0.2	0.2#

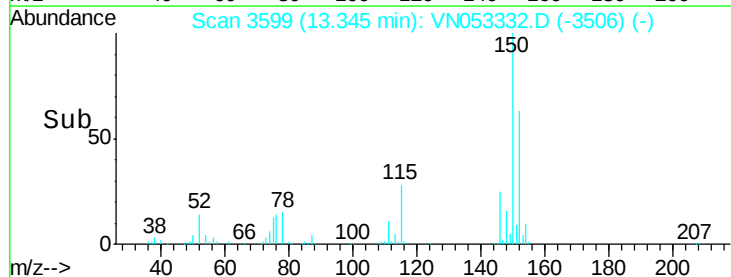
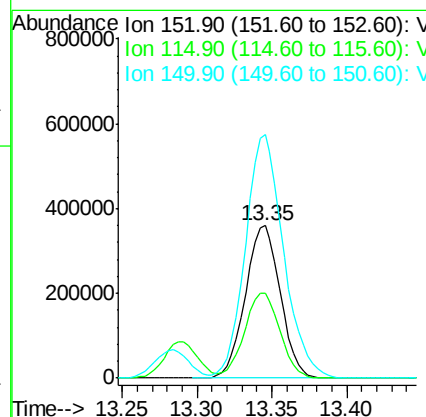
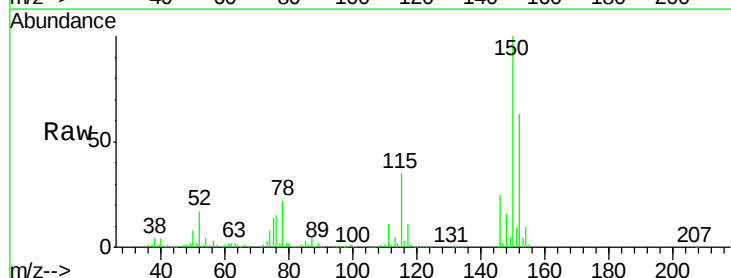
Manual Integrations
APPROVED

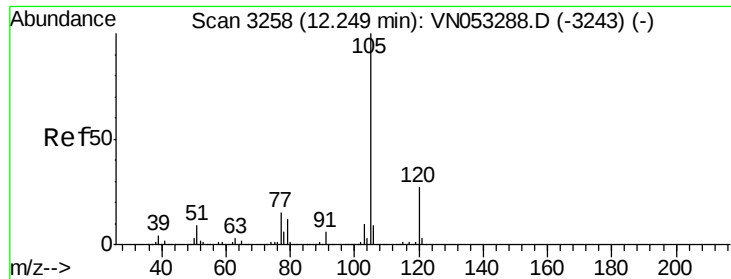
MMDadoda
1/11/2019 10:11:34 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN053332.D
Acq: 10 Jan 2019 9:30

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.5	28.0	84.0
150	173.9	0.0	346.6





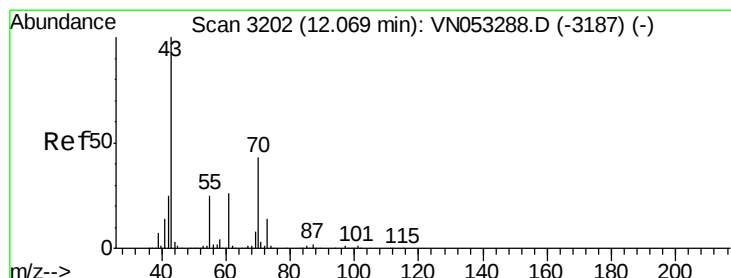
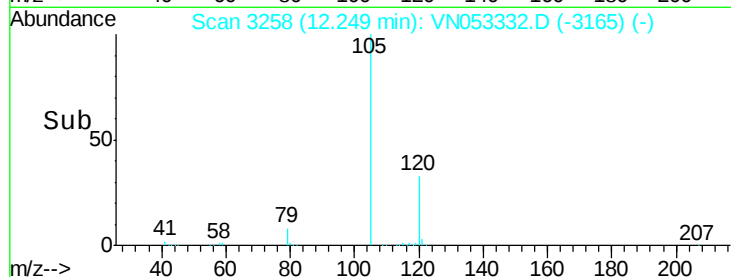
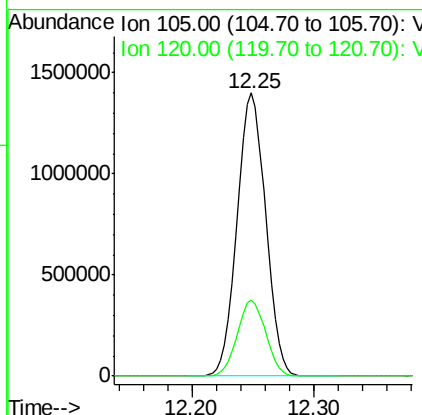
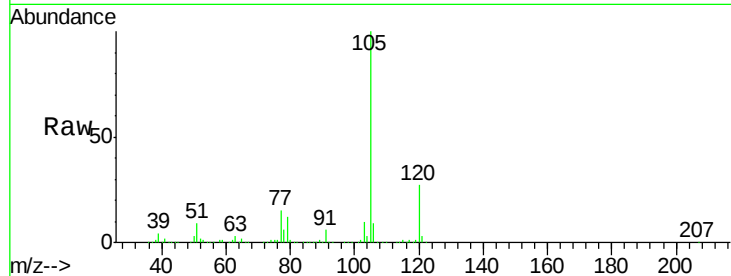
#73
Isopropylbenzene
Concen: 52.083 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. 0.00 min
Lab File: VN053332.D
Acq: 10 Jan 2019 9:30

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 105 Resp: 2262805
Ion Ratio Lower Upper
105 100
120 26.7 13.4 40.2

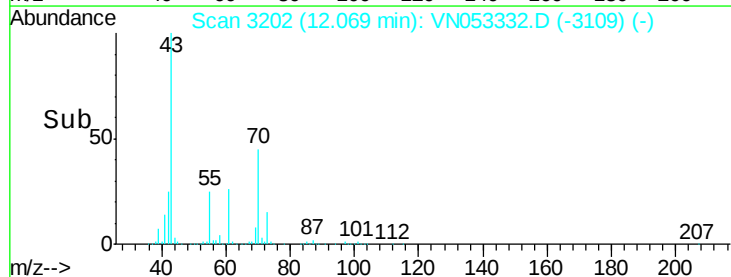
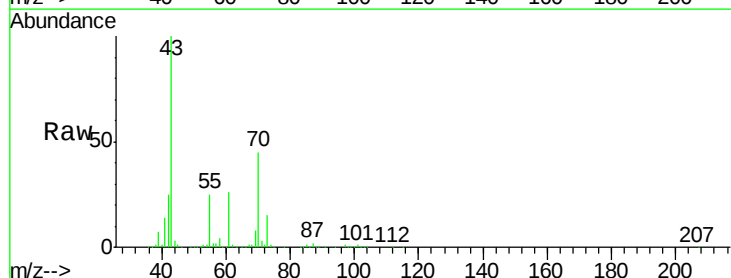
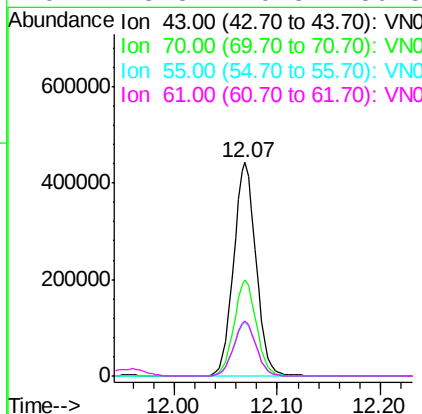
Manual Integrations
APPROVED

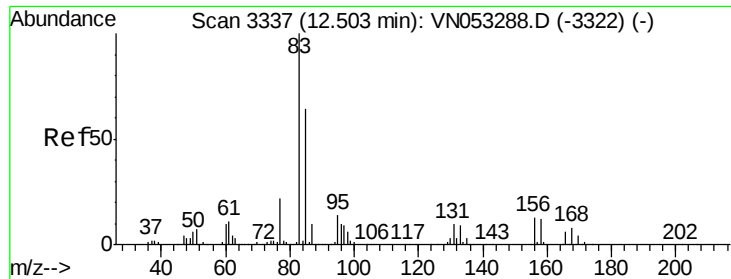
MMDadoda
1/11/2019 10:11:34 AM



#74
N-ethyl acetate
Concen: 51.541 ug/l
RT: 12.07 min Scan# 3202
Delta R.T. 0.00 min
Lab File: VN053332.D
Acq: 10 Jan 2019 9:30

Tgt Ion: 43 Resp: 668652
Ion Ratio Lower Upper
43 100
70 44.8 35.0 52.6
55 25.4 20.0 30.0
61 25.8 20.3 30.5





#75

1,1,2,2-Tetrachloroethane

Concen: 49.323 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN053332.D

Acq: 10 Jan 2019 9:30

Instrument :

MSVOA_N

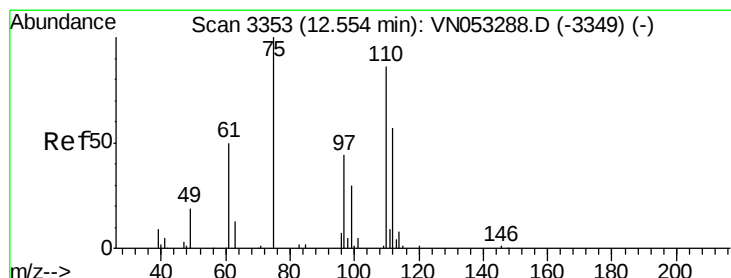
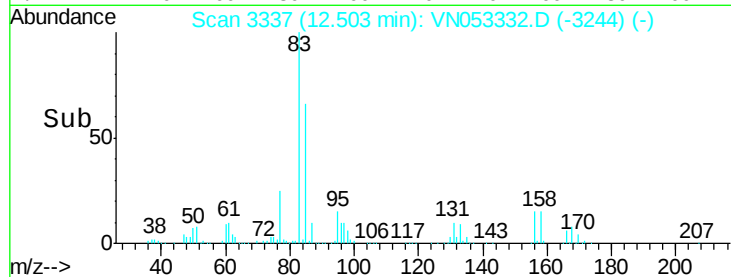
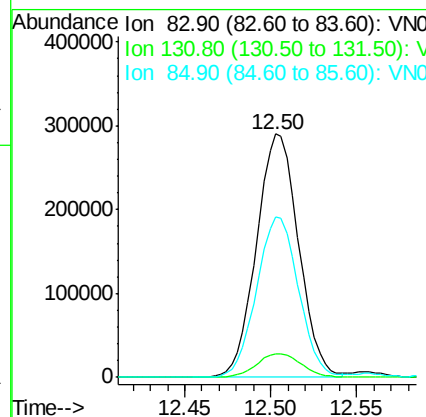
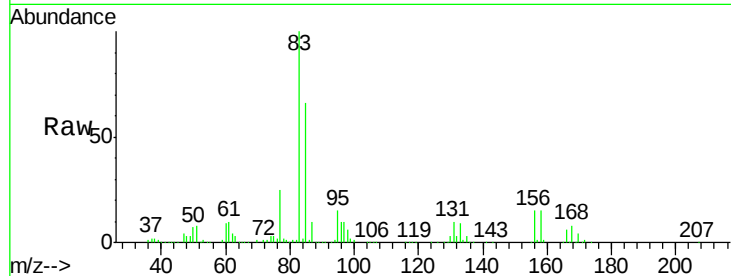
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	492936
Ion Ratio	Lower	Upper	
83	100		
131	10.3	5.3	15.9
85	65.6	32.3	96.8

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 51.555 ug/l m

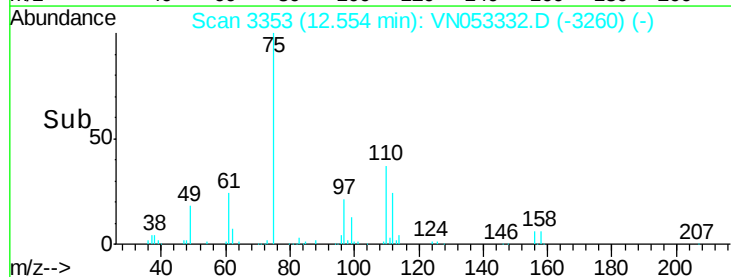
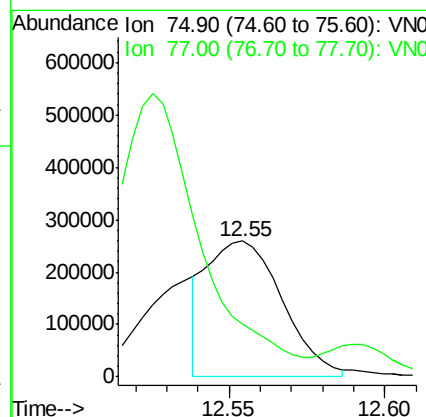
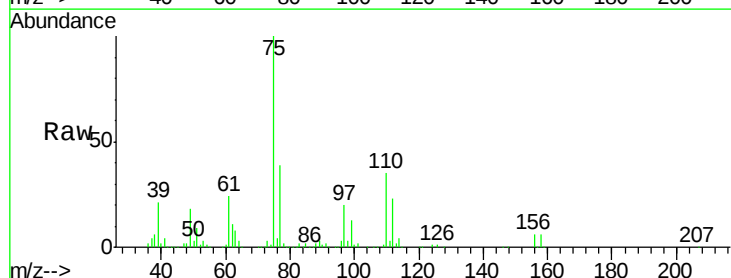
RT: 12.55 min Scan# 3353

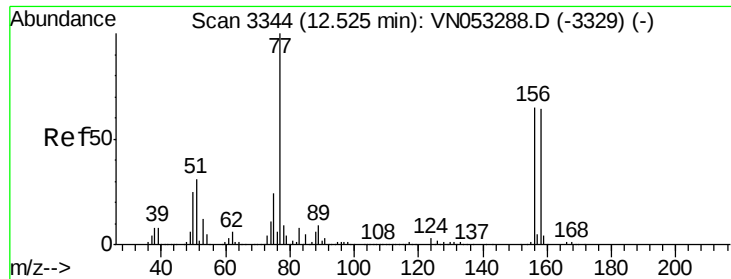
Delta R.T. 0.00 min

Lab File: VN053332.D

Acq: 10 Jan 2019 9:30

Tgt Ion:	75	Resp:	438797
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 50.551 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN053332.D

Acq: 10 Jan 2019 9:30

Instrument :

MSVOA_N

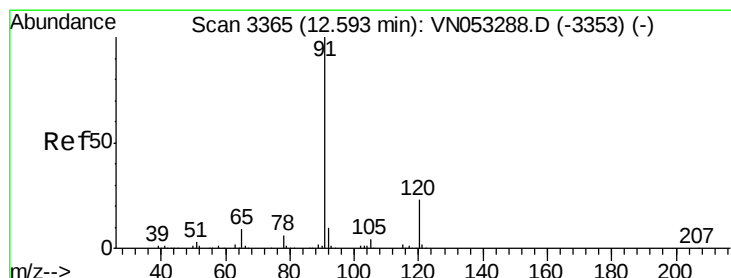
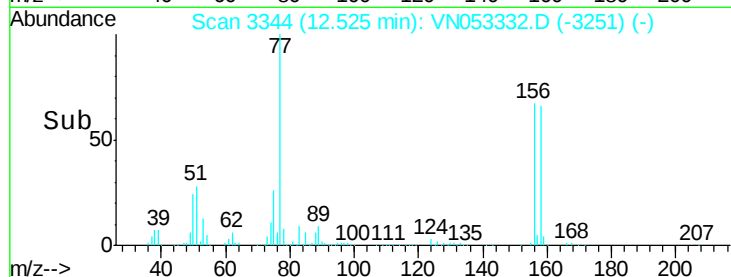
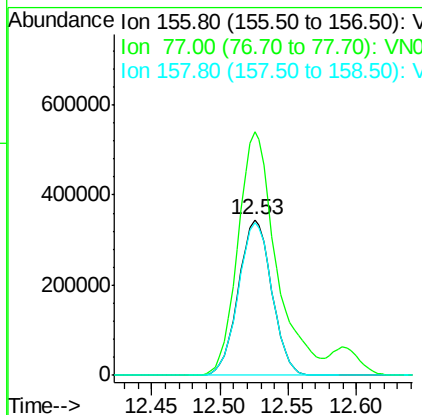
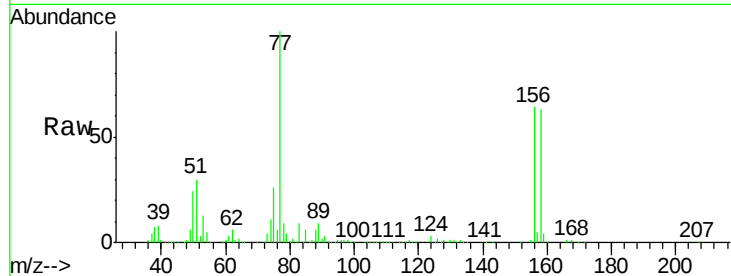
ClientSampled :

VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
156	100	586161		
77	179.4	89.3	268.1	
158	98.7	48.9	146.8	

Manual Integrations
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1/11/2019 10:11:34 AM



#78

n-propylbenzene

Concen: 52.880 ug/l

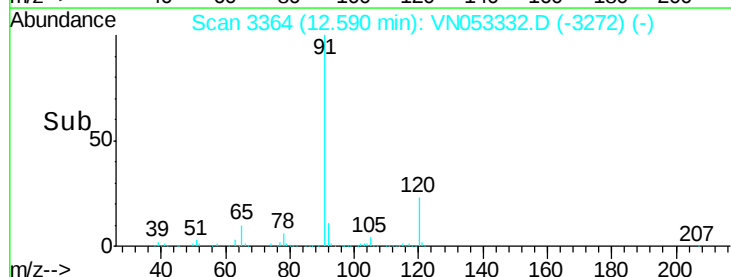
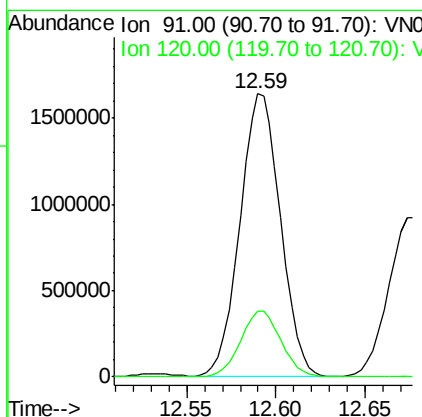
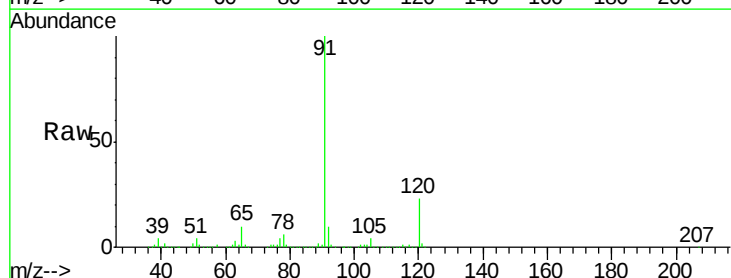
RT: 12.59 min Scan# 3364

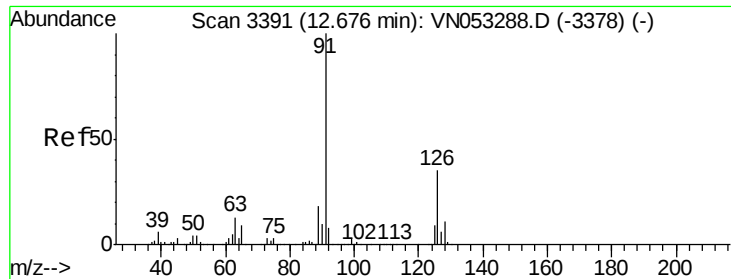
Delta R.T. -0.00 min

Lab File: VN053332.D

Acq: 10 Jan 2019 9:30

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	2598733		
120	23.3	11.5	34.5	





#79

2-Chlorotoluene

Concen: 51.392 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN053332.D

Acq: 10 Jan 2019 9:30

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 1528200

Ion Ratio Lower Upper

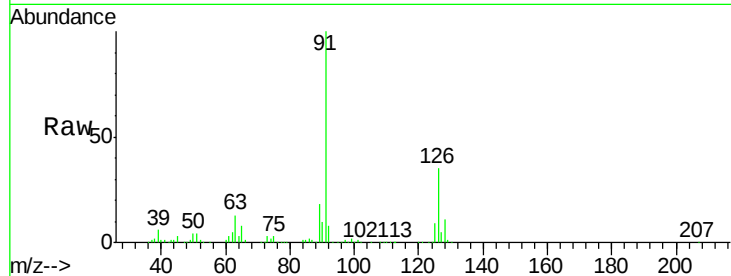
91 100

126 35.3 17.5 52.5

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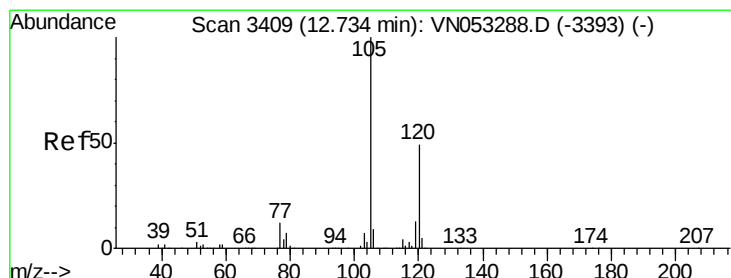
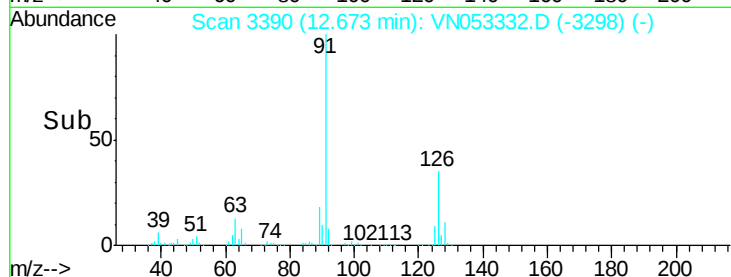
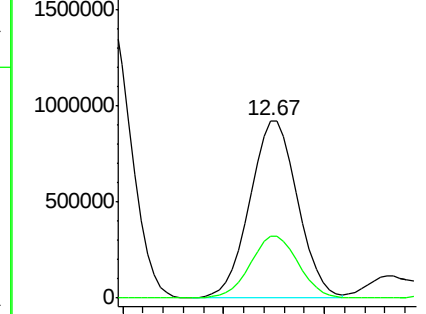
MMDadoda

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Abundance Ion 91.00 (90.70 to 91.70): VN053288.D (-3378) (-)

Ion 125.90 (125.60 to 126.60): VN053288.D (-3378) (-)



#80

1,3,5-Trimethylbenzene

Concen: 52.572 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN053332.D

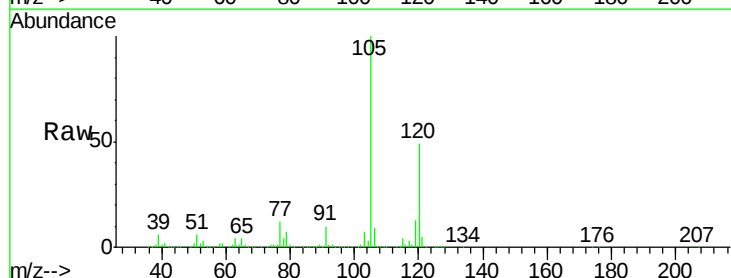
Acq: 10 Jan 2019 9:30

Tgt Ion: 105 Resp: 1839798

Ion Ratio Lower Upper

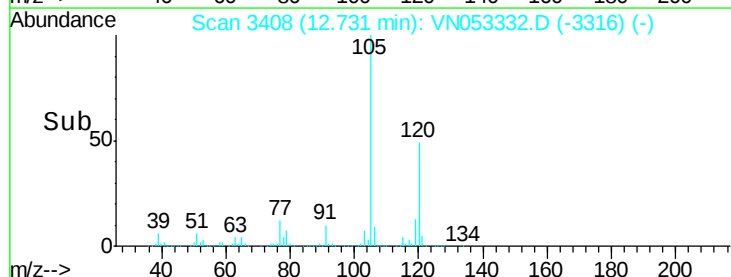
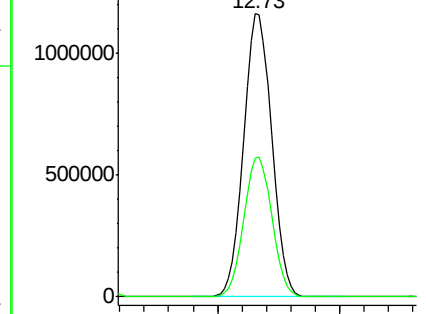
105 100

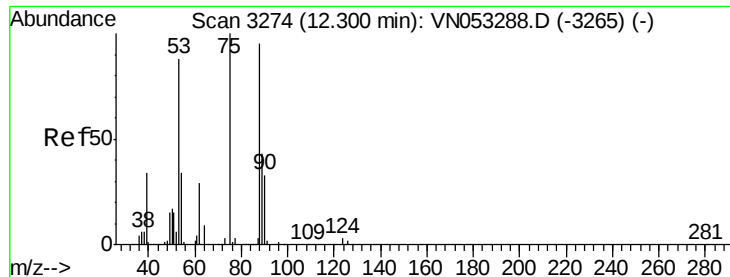
120 49.4 24.7 74.1



Abundance Ion 105.00 (104.70 to 105.70): VN053288.D (-3393) (-)

Ion 120.00 (119.70 to 120.70): VN053288.D (-3393) (-)





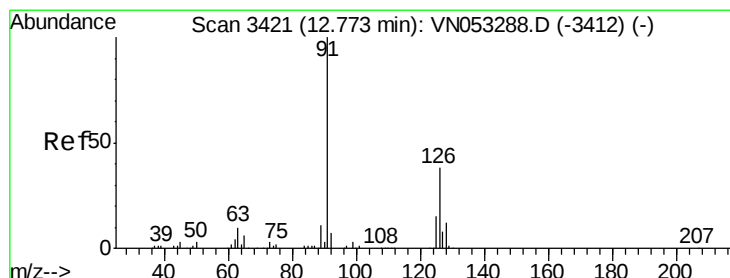
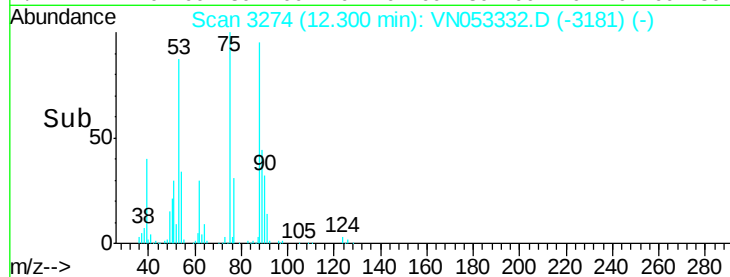
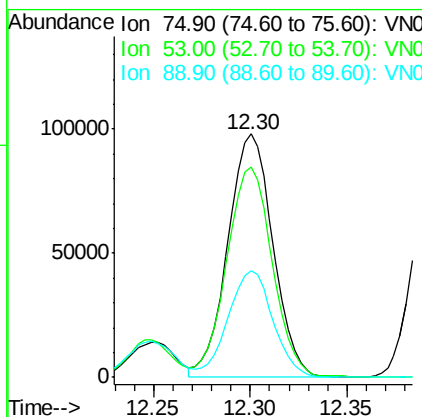
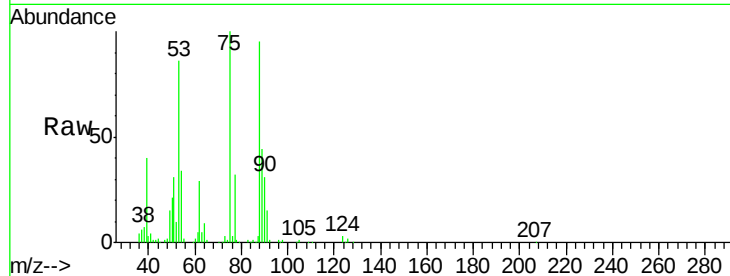
#81
trans-1,4-Dichloro-2-butene
Concen: 54.784 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. 0.00 min
Lab File: VN053332.D
Acq: 10 Jan 2019 9:30

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
75	100		
53	88.0	70.5	105.7
89	43.7	35.4	53.0

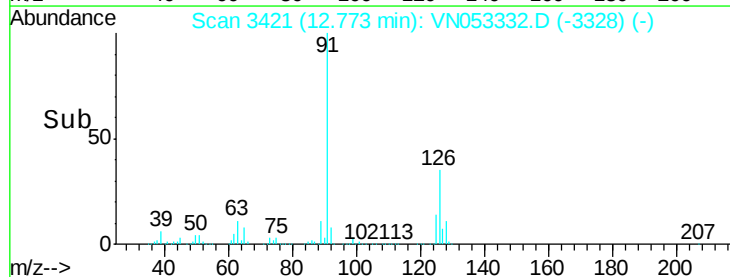
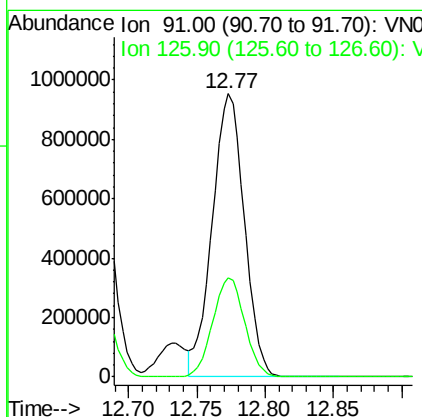
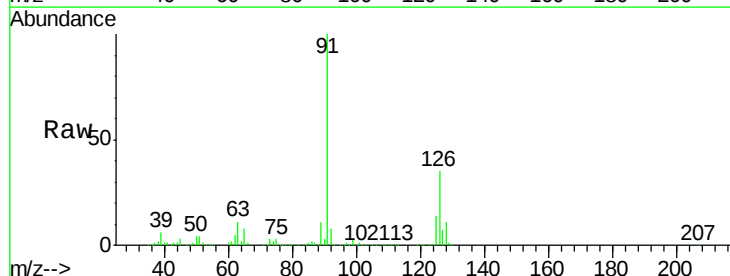
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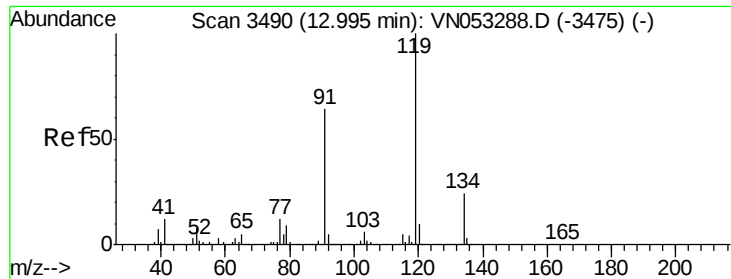
MMDadoda
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#82
4-Chlorotoluene
Concen: 50.917 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. 0.00 min
Lab File: VN053332.D
Acq: 10 Jan 2019 9:30

Tgt Ion	Ratio	Lower	Upper
91	100		
126	35.0	17.4	52.2





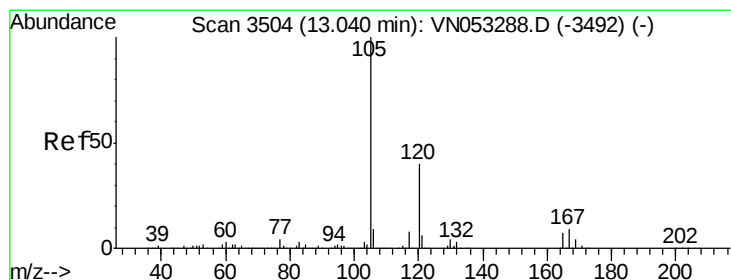
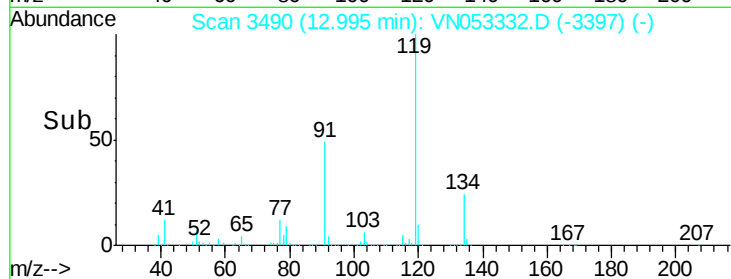
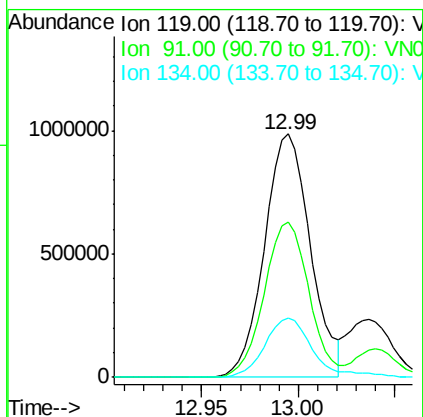
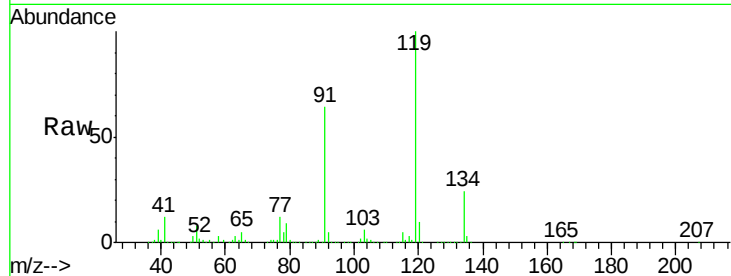
#83
tert-Butylbenzene
Concen: 52.990 ug/l
RT: 12.99 min Scan# 3490
Delta R.T. 0.00 min
Lab File: VN053332.D
Acq: 10 Jan 2019 9:30

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion:119 Resp: 1627017
Ion Ratio Lower Upper
119 100
91 62.6 31.6 95.0
134 25.5 12.9 38.6

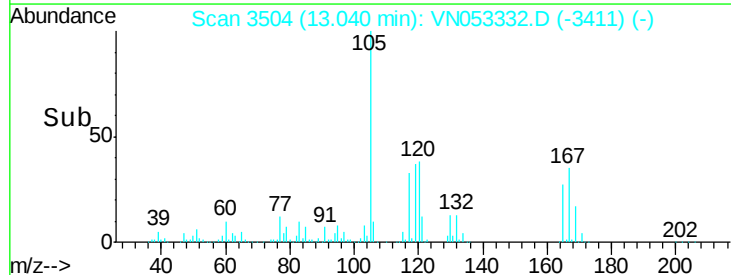
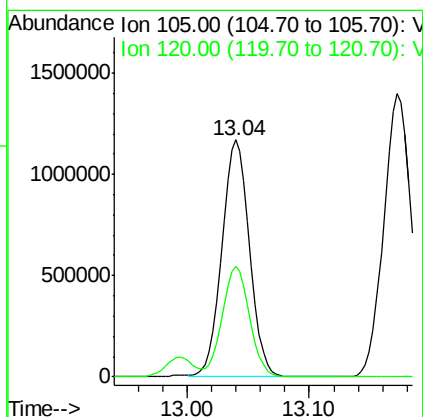
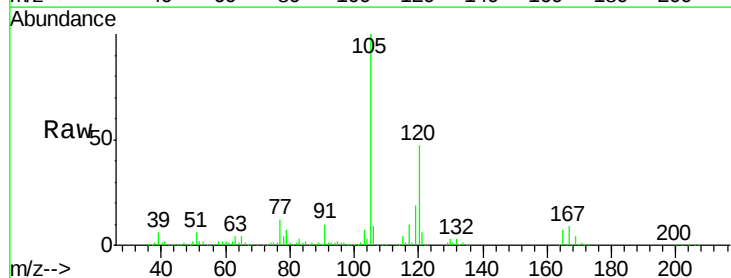
Manual Integrations
APPROVED

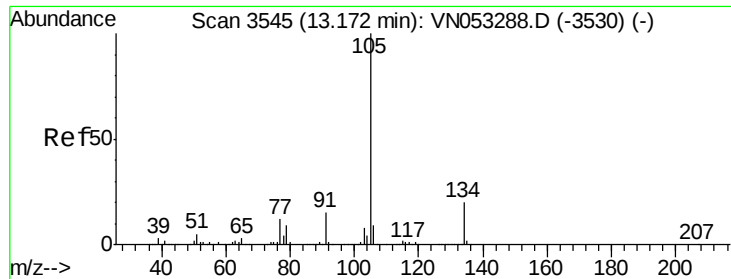
MMDadoda
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#84
1,2,4-Trimethylbenzene
Concen: 52.074 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. 0.00 min
Lab File: VN053332.D
Acq: 10 Jan 2019 9:30

Tgt Ion:105 Resp: 1856561
Ion Ratio Lower Upper
105 100
120 46.4 23.0 69.0





#85

sec-Butylbenzene

Concen: 54.621 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN053332.D

Acq: 10 Jan 2019 9:30

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 2211737

Ion Ratio Lower Upper

105 100

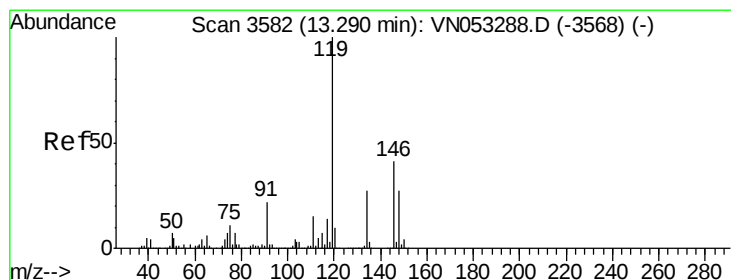
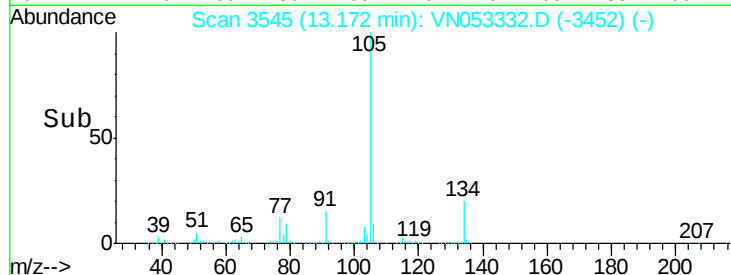
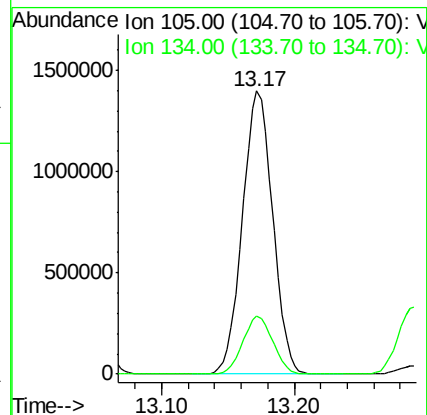
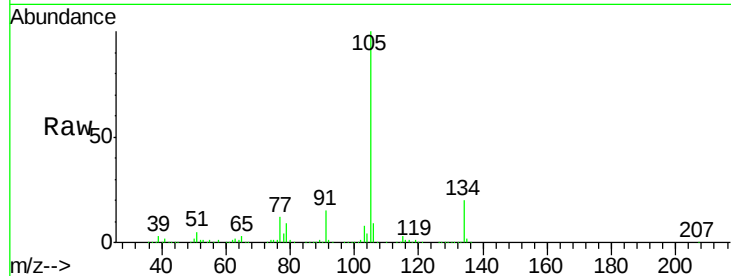
134 20.3 10.2 30.6

Manual Integrations

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#86

p-Isopropyltoluene

Concen: 54.893 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN053332.D

Acq: 10 Jan 2019 9:30

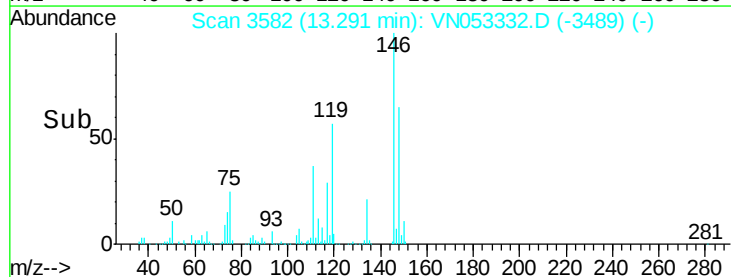
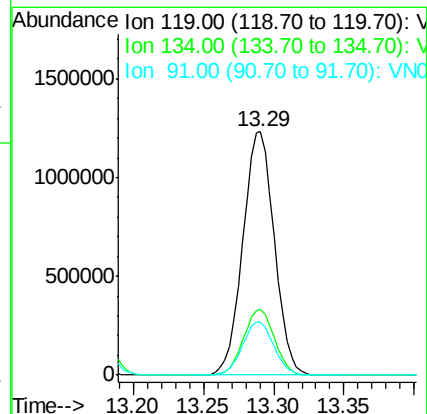
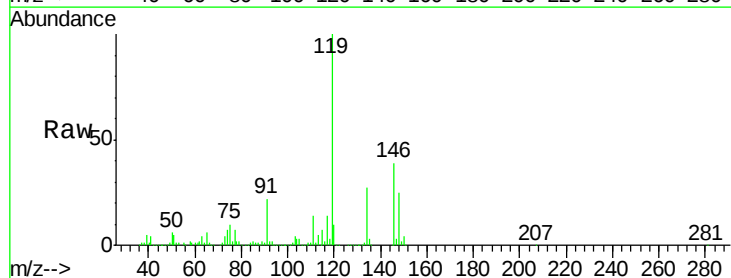
Tgt Ion:119 Resp: 1924498

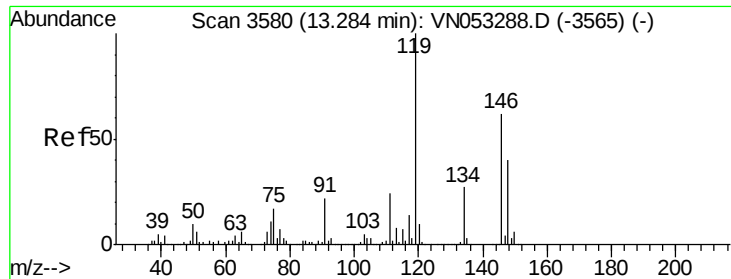
Ion Ratio Lower Upper

119 100

134 26.8 13.4 40.1

91 21.9 11.1 33.1





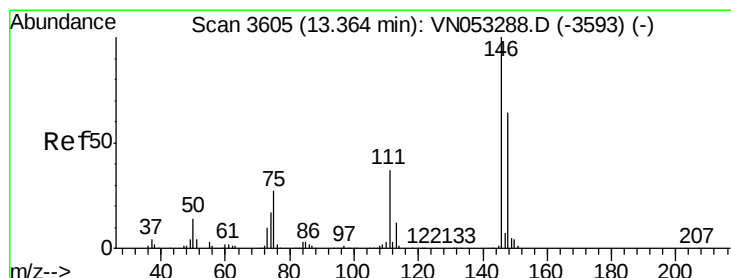
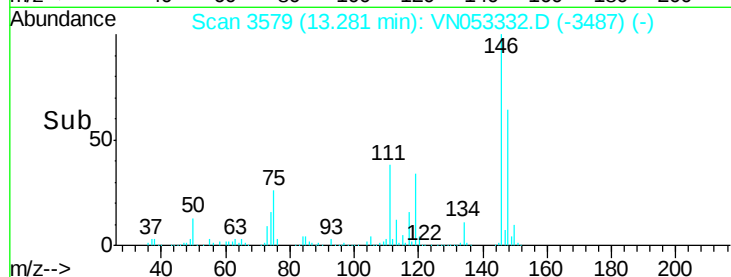
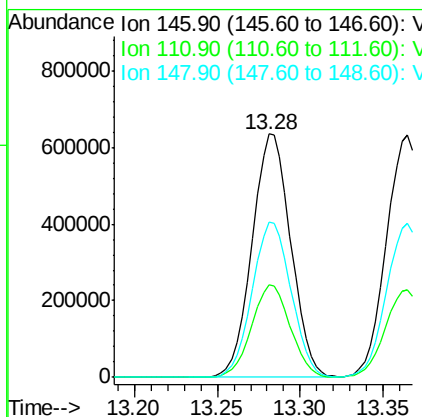
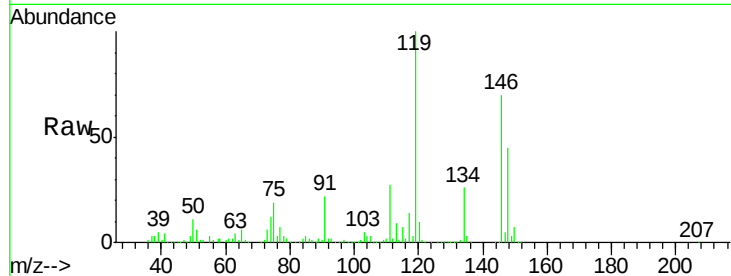
#87
 1,3-Dichlorobenzene
 Concen: 50.431 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. -0.00 min
 Lab File: VN053332.D
 Acq: 10 Jan 2019 9:30

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion:146 Resp: 1029785
 Ion Ratio Lower Upper
 146 100
 111 37.9 18.9 56.5
 148 64.2 32.0 96.2

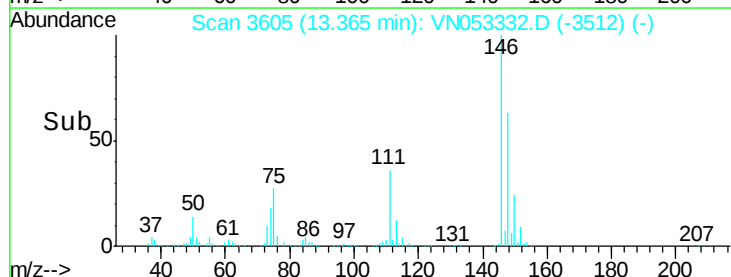
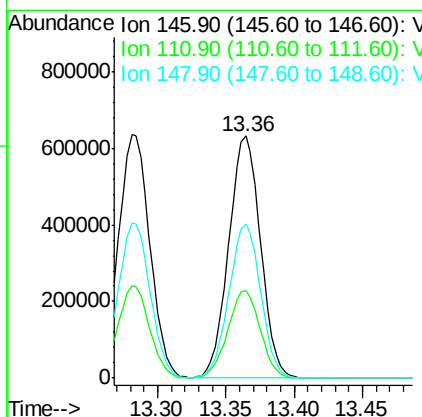
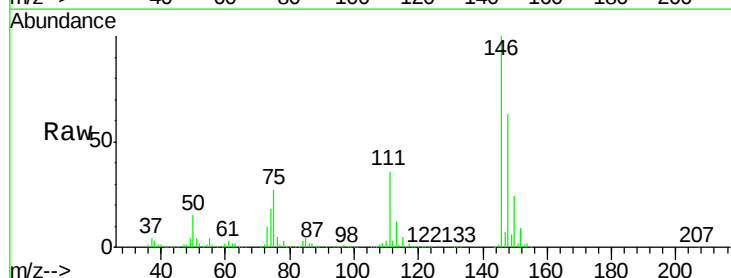
Manual Integrations
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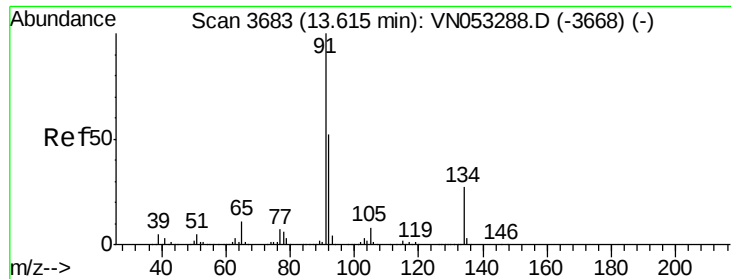
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 1/11/2019 10:11:34 AM



#88
 1,4-Dichlorobenzene
 Concen: 50.502 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN053332.D
 Acq: 10 Jan 2019 9:30

Tgt Ion:146 Resp: 1022962
 Ion Ratio Lower Upper
 146 100
 111 36.8 18.6 55.8
 148 63.5 32.0 96.0





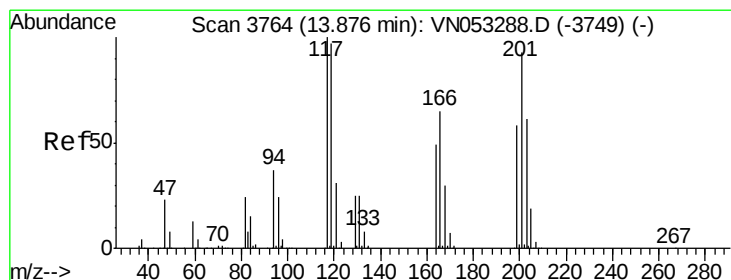
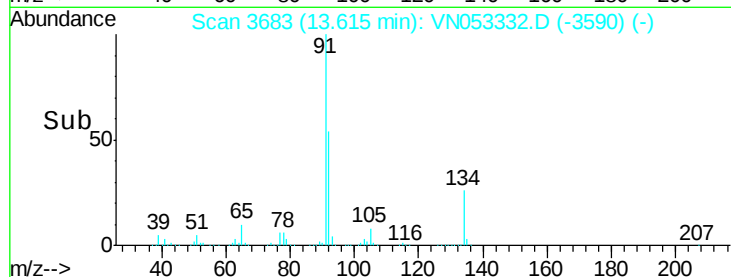
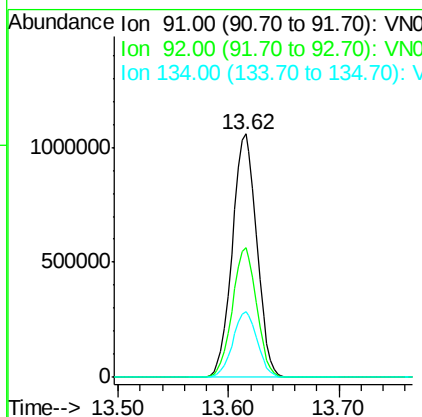
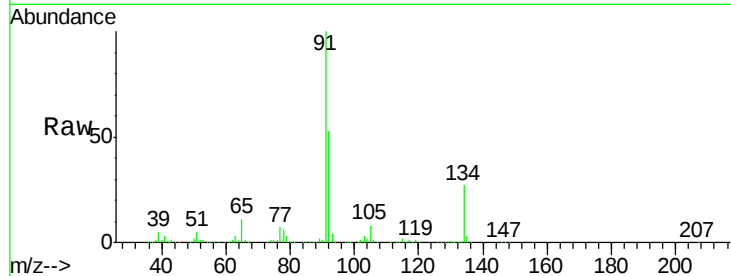
#89
n-Butylbenzene
Concen: 55.431 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN053332.D
Acq: 10 Jan 2019 9:30

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 1629308
Ion Ratio Lower Upper
91 100
92 53.0 26.3 78.8
134 26.9 13.5 40.5

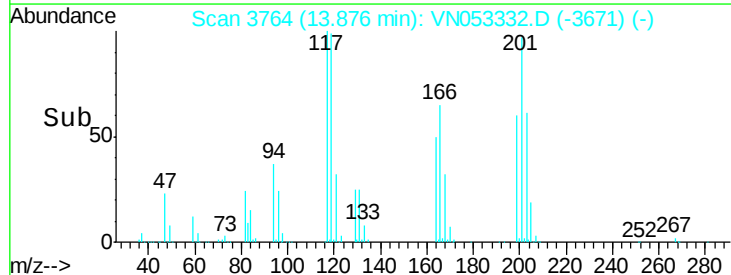
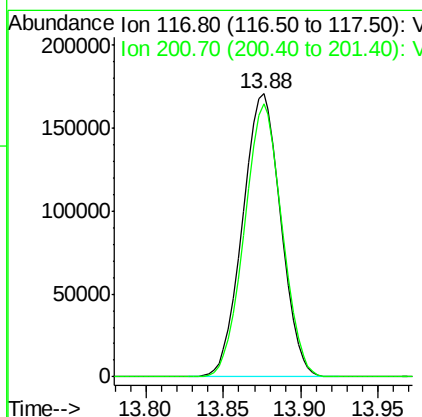
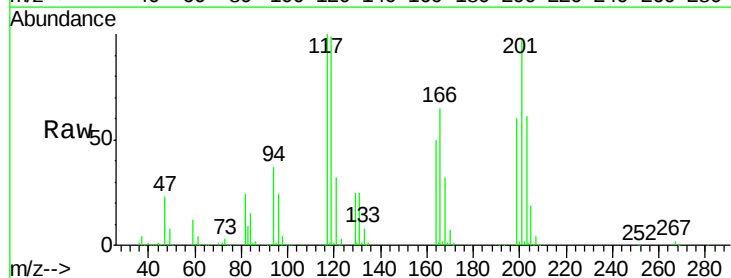
Manual Integrations
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1/11/2019 10:11:34 AM



#90
Hexachloroethane
Concen: 52.356 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. 0.00 min
Lab File: VN053332.D
Acq: 10 Jan 2019 9:30

Tgt Ion: 117 Resp: 294208
Ion Ratio Lower Upper
117 100
201 94.8 46.1 138.3





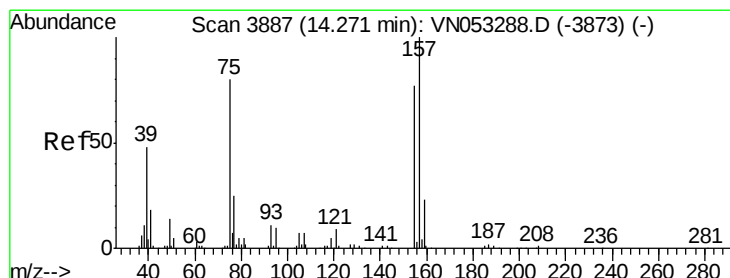
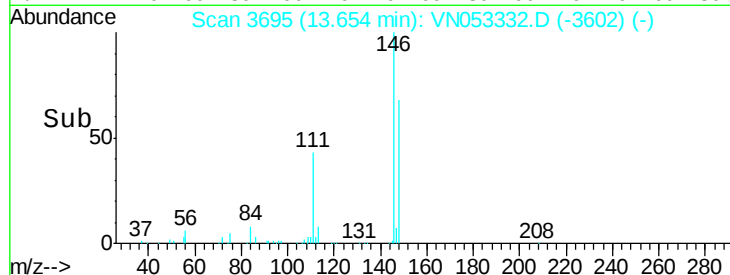
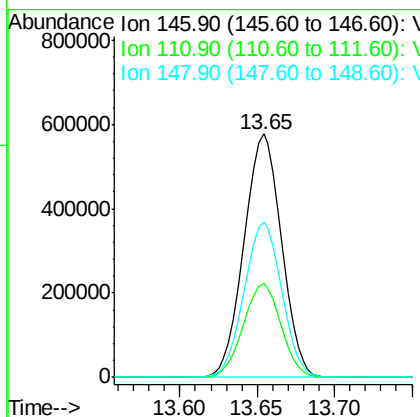
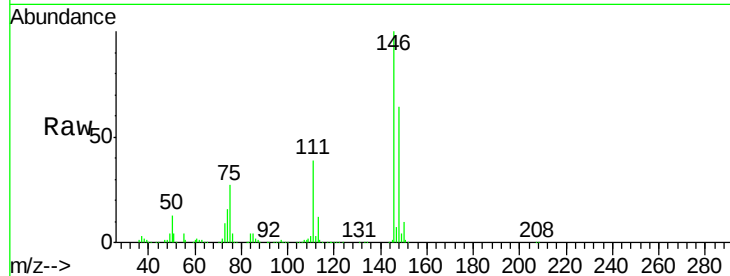
#91
 1,2-Dichlorobenzene
 Concen: 51.085 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN053332.D
 Acq: 10 Jan 2019 9:30

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.6	19.4	58.2
148	63.7	32.2	96.6

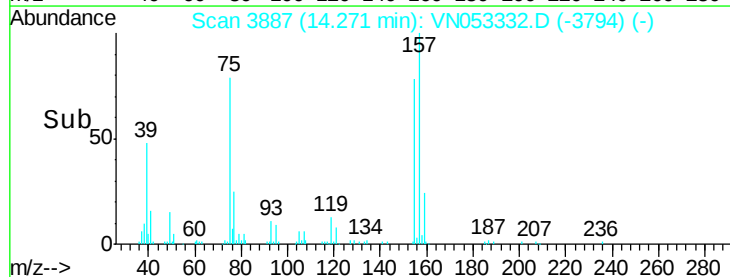
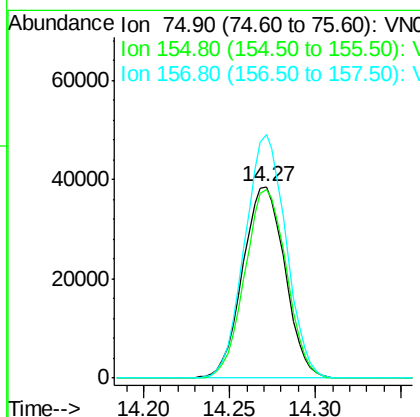
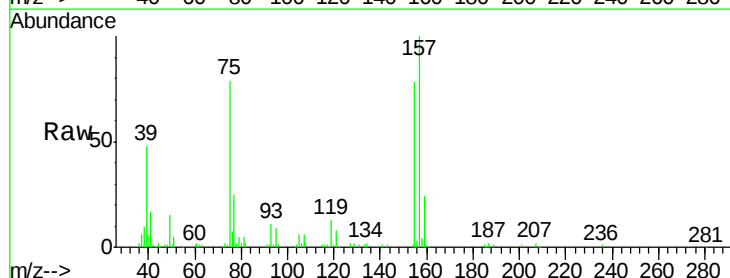
Manual Integrations
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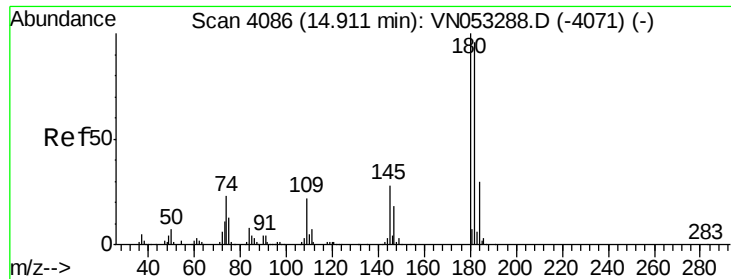
MMDadoda
 1/11/2019 10:11:34 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 54.425 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. 0.00 min
 Lab File: VN053332.D
 Acq: 10 Jan 2019 9:30

Tgt Ion	Ratio	Lower	Upper
75	100		
155	97.0	48.1	144.3
157	123.6	61.5	184.4





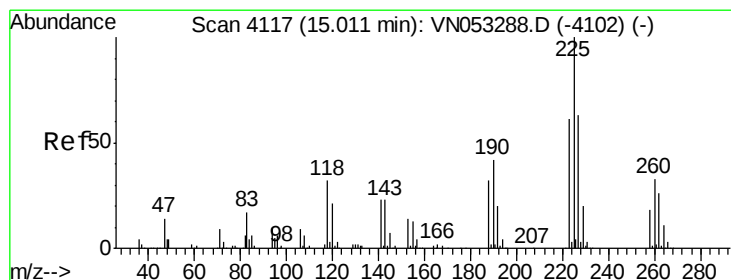
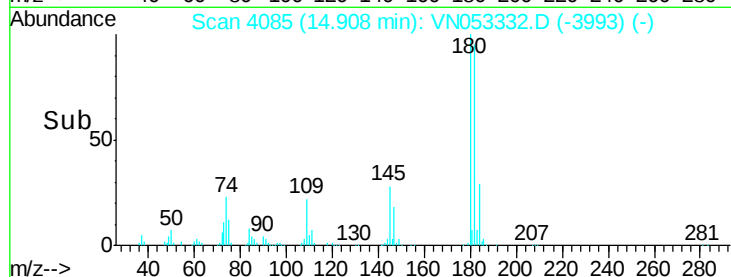
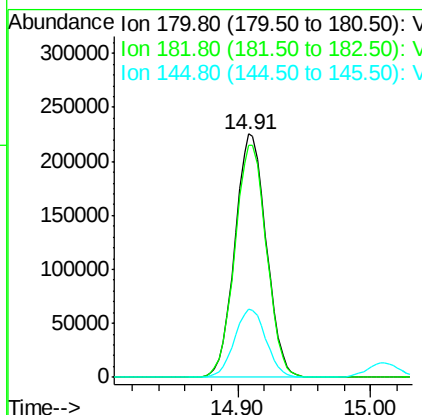
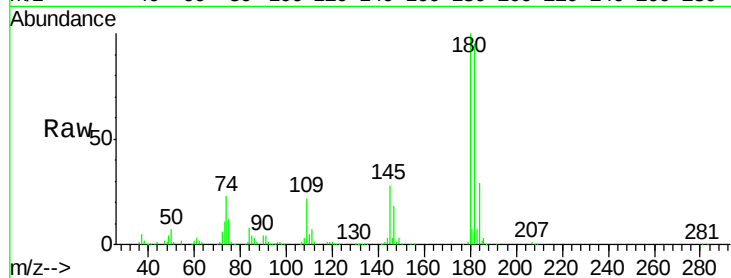
#93
1,2,4-Trichlorobenzene
Concen: 61.418 ug/l
RT: 14.91 min Scan# 4085
Delta R.T. -0.00 min
Lab File: VN053332.D
Acq: 10 Jan 2019 9:30

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
180	100	369373		
182	96.3	47.8	143.4	
145	28.2	14.4	43.0	

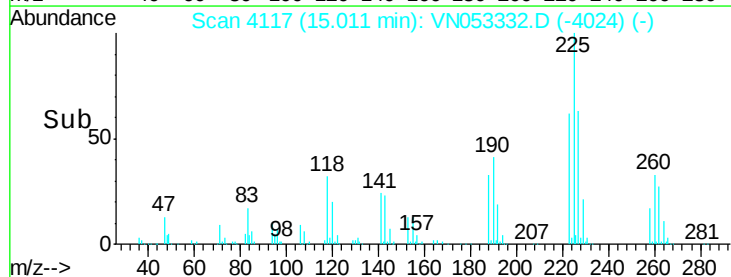
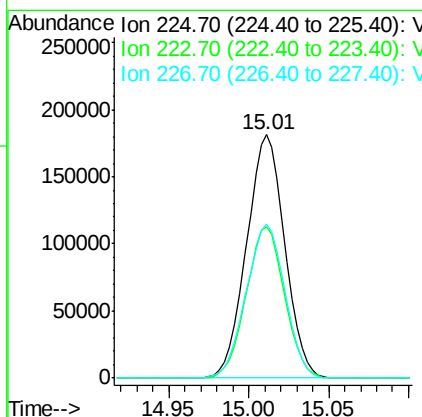
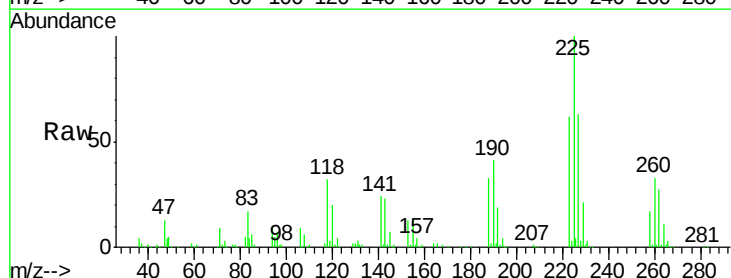
Manual Integrations
APPROVED

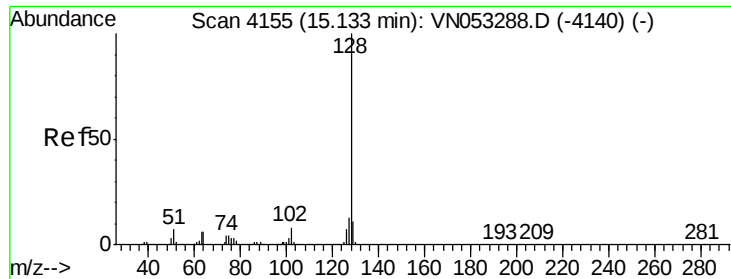
MMDadoda
1/11/2019 10:11:34 AM



#94
Hexachlorobutadiene
Concen: 60.250 ug/l
RT: 15.01 min Scan# 4117
Delta R.T. 0.00 min
Lab File: VN053332.D
Acq: 10 Jan 2019 9:30

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	296378		
223	62.4	30.9	92.8	
227	64.3	31.4	94.2	





#95

Naphthalene

Concen: 62.752 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN053332.D

Acq: 10 Jan 2019 9:30

Instrument :

MSVOA_N

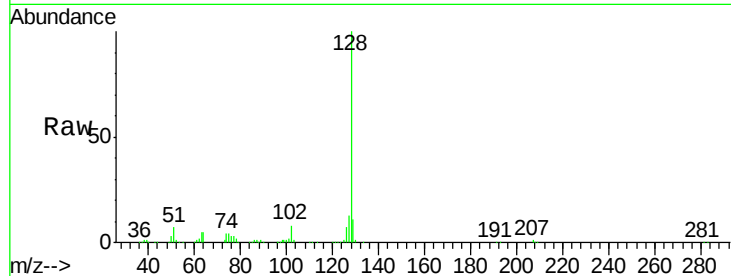
ClientSampleId :

VSTDCCC050

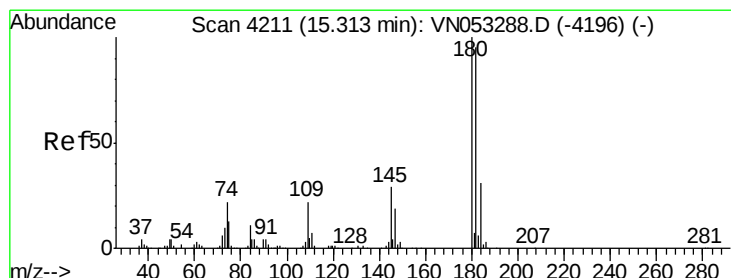
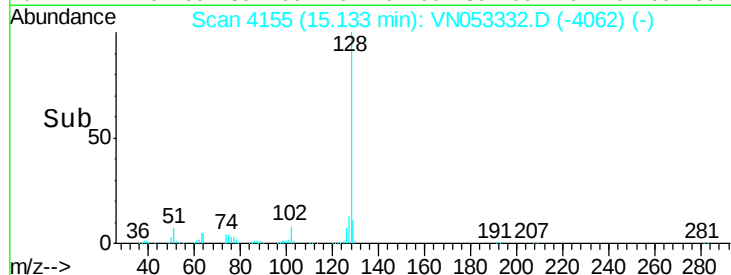
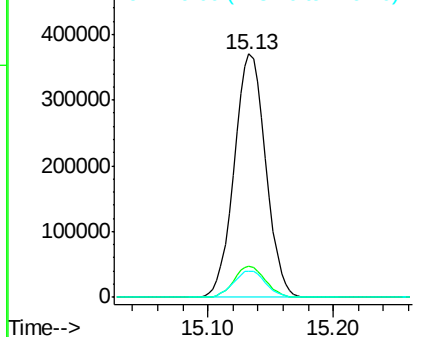
Tot Ion:	128	Resp:	643811
Ion Ratio	Lower	Upper	
128	100		
127	12.8	10.4	15.6
129	11.0	8.7	13.1

Manual Integrations
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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: 65.900 ug/l

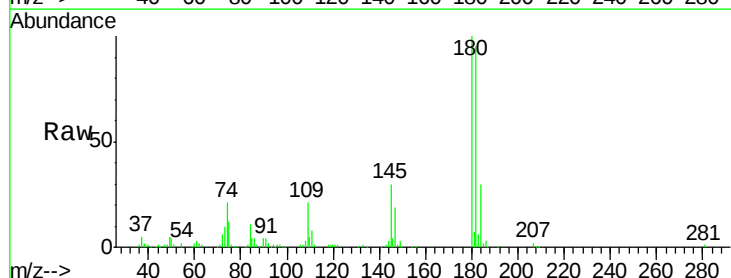
RT: 15.32 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN053332.D

Acq: 10 Jan 2019 9:30

Tgt Ion:	180	Resp:	259482
Ion Ratio	Lower	Upper	
180	100		
182	94.6	48.4	145.0
145	29.7	14.9	44.5



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

