

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN042919\
 Data File : VN055284.D
 Acq On : 29 Apr 2019 10:42
 Operator : JC/SP
 Sample : VSTDIC010
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC010

Manual Integrations
 APPROVED

MMDadoda
 4/30/2019 11:58:54 AM

Quant Time: Apr 30 03:59:30 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N042919W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 30 03:41:42 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	417707	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	673757	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	554331	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	176041	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	57382	10.21	ug/l	0.00
Spiked Amount			Recovery	=	20.42%	
35) Dibromofluoromethane	7.59	113	44722	9.88	ug/l	0.00
Spiked Amount			Recovery	=	19.76%	
50) Toluene-d8	10.09	98	157128	9.37	ug/l	0.00
Spiked Amount			Recovery	=	18.74%	
62) 4-Bromofluorobenzene	12.40	95	45316	8.56	ug/l	0.00
Spiked Amount			Recovery	=	17.12%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.85	85	56704	10.699	ug/l	95
3) Chloromethane	2.06	50	66917	10.312	ug/l	98
4) Vinyl Chloride	2.19	62	52909	10.183	ug/l	97
5) Bromomethane	2.56	94	28840	9.509	ug/l	95
6) Chloroethane	2.71	64	27841	10.085	ug/l	96
7) Trichlorofluoromethane	3.02	101	75315	10.566	ug/l	98
8) Diethyl Ether	3.41	74	24584	9.671	ug/l	93
9) 1,1,2-Trichlorotrifluoroet	3.76	101	43747	9.837	ug/l	98
10) Methyl Iodide	3.95	142	62142	10.033	ug/l	99
11) Tert butyl alcohol	4.79	59	15066	46.074	ug/l #	73
12) 1,1-Dichloroethene	3.74	96	41217	9.721	ug/l	98
13) Acrolein	3.61	56	12815	31.531	ug/l	95
14) Allyl chloride	4.33	41	86386	10.203	ug/l	98
15) Acrylonitrile	4.99	53	89666	49.907	ug/l	97
16) Acetone	3.82	43	87982	49.143	ug/l	100
17) Carbon Disulfide	4.06	76	107056	9.115	ug/l	98
18) Methyl Acetate	4.33	43	42410	8.313	ug/l	92
19) Methyl tert-butyl Ether	5.05	73	117397	9.912	ug/l	97
20) Methylene Chloride	4.55	84	51947	9.747	ug/l	98
21) trans-1,2-Dichloroethene	5.05	96	44156	9.927	ug/l	97
22) Diisopropyl ether	5.96	45	170623	10.077	ug/l	97
23) Vinyl Acetate	5.90	43	561589	49.694	ug/l	99
24) 1,1-Dichloroethane	5.85	63	92486	10.218	ug/l	99
25) 2-Butanone	6.84	43	106656	45.093	ug/l	96
26) 2,2-Dichloropropane	6.83	77	63328	10.282	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	51264	9.953	ug/l	98
28) Bromochloromethane	7.20	49	46658	10.105	ug/l	99
29) Tetrahydrofuran	7.21	42	72236	49.094	ug/l	98
30) Chloroform	7.37	83	85787	9.952	ug/l	99
31) Cyclohexane	7.66	56	89865	8.673	ug/l #	90
32) 1,1,1-Trichloroethane	7.57	97	69242	10.017	ug/l	99
36) 1,1-Dichloropropene	7.80	75	60787	9.851	ug/l	98
37) Ethyl Acetate	6.93	43	46560	9.344	ug/l	98
38) Carbon Tetrachloride	7.77	117	60085	10.322	ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

39) Methylcyclohexane	9.08	83	67033	9.121	ug/l	99
40) Benzene	8.04	78	192145	10.028	ug/l	100
41) Methacrylonitrile	7.17	41	20012	7.640	ug/l #	70
42) 1,2-Dichloroethane	8.12	62	67669	10.119	ug/l	100
43) Isopropyl Acetate	8.17	43	76207	9.396	ug/l	97
44) Trichloroethene	8.84	130	48180	9.971	ug/l	93
45) 1,2-Dichloropropane	9.12	63	53534	9.871	ug/l	96
46) Dibromomethane	9.21	93	30319	9.818	ug/l	99
47) Bromodichloromethane	9.40	83	63269	10.188	ug/l	98
48) Methyl methacrylate	9.20	41	34229	8.652	ug/l	97
49) 1,4-Dioxane	9.21	88	7721	173.012	ug/l #	91
51) 4-Methyl-2-Pentanone	9.99	43	220614	47.283	ug/l	98
52) Toluene	10.16	92	110922	9.924	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	52788	9.266	ug/l	97
54) cis-1,3-Dichloropropene	9.84	75	67691	9.575	ug/l	98
55) 1,1,2-Trichloroethane	10.56	97	41567	10.029	ug/l	97
56) Ethyl methacrylate	10.43	69	50050	9.722	ug/l	96
57) 1,3-Dichloropropane	10.71	76	71181	9.883	ug/l	97
58) 2-Chloroethyl Vinyl ether	9.70	63	54307	34.180	ug/l	99
59) 2-Hexanone	10.75	43	132893	45.629	ug/l	98
60) Dibromochloromethane	10.90	129	40119	9.385	ug/l	95
61) 1,2-Dibromoethane	11.01	107	36508	9.409	ug/l	94
64) Tetrachloroethene	10.63	164	46638	10.395	ug/l	96
65) Chlorobenzene	11.43	112	111248	9.920	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	42942	10.284	ug/l	99
67) Ethyl Benzene	11.51	91	196455	9.827	ug/l	100
68) m/p-Xylenes	11.62	106	141987	19.868	ug/l	98
69) o-Xylene	11.95	106	71156	10.023	ug/l	97
70) Styrene	11.96	104	105484	9.607	ug/l	99
71) Bromoform	12.13	173	22584	9.148	ug/l #	100
73) Isopropylbenzene	12.25	105	190390	11.227	ug/l	99
74) N-amyl acetate	12.07	43	42510	9.376	ug/l	95
75) 1,1,2,2-Tetrachloroethane	12.50	83	47047	10.518	ug/l	96
76) 1,2,3-Trichloropropane	12.55	75	40476m	11.200	ug/l	
77) Bromobenzene	12.53	156	41669	10.748	ug/l	99
78) n-propylbenzene	12.59	91	191010	10.801	ug/l	99
79) 2-Chlorotoluene	12.67	91	124174	11.120	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	147365	11.179	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	9731	10.310	ug/l	91
82) 4-Chlorotoluene	12.77	91	106968	10.455	ug/l	99
83) tert-Butylbenzene	12.99	119	126487	10.719	ug/l	100
84) 1,2,4-Trimethylbenzene	13.04	105	130789	10.527	ug/l	97
85) sec-Butylbenzene	13.17	105	161567	10.823	ug/l	100
86) p-Isopropyltoluene	13.29	119	128571	10.470	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	60345	10.195	ug/l	96
88) 1,4-Dichlorobenzene	13.36	146	55543	9.624	ug/l	98
89) n-Butylbenzene	13.61	91	83048	9.182	ug/l	99
90) Hexachloroethane	13.87	117	22928	10.469	ug/l	93
91) 1,2-Dichlorobenzene	13.65	146	62517	10.299	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.27	75	4947	9.278	ug/l	98

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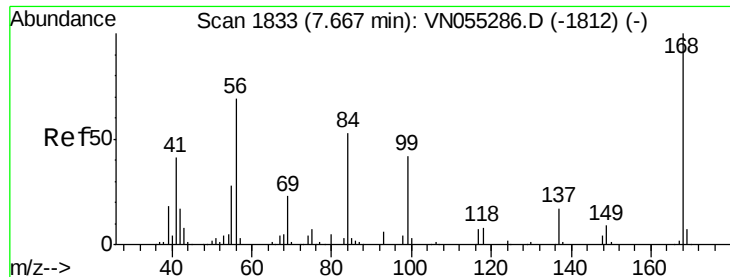
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	15043	7.128	ug/l	99
94) Hexachlorobutadiene	15.01	225	22098	10.072	ug/l	99
95) Naphthalene	15.13	128	35315	7.945	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	17035	7.773	ug/l	95

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN055284.D

Acq: 29 Apr 2019 10:42

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tot Ion:168 Resp: 417707

Ion Ratio Lower Upper

168 100

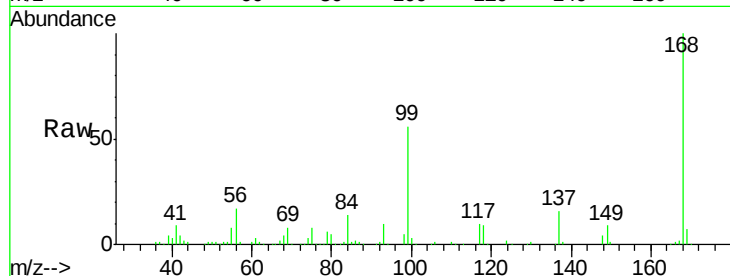
99 54.9 43.6 65.4

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

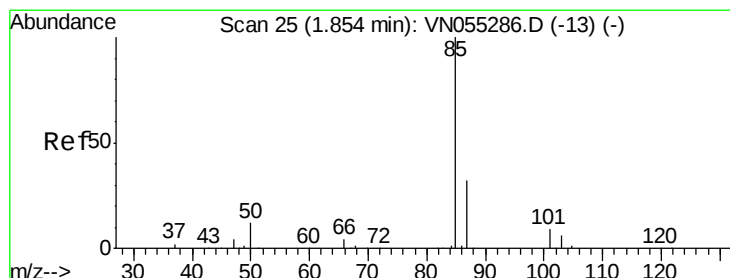
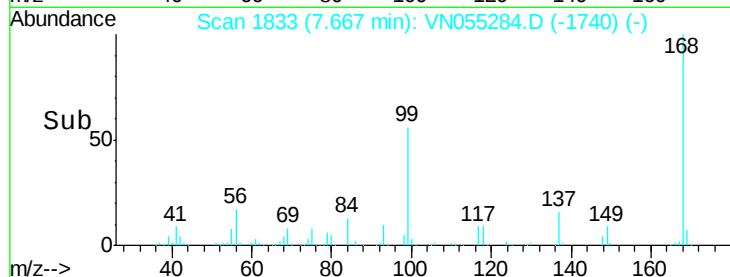
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 10.699 ug/l

RT: 1.85 min Scan# 25

Delta R.T. 0.00 min

Lab File: VN055284.D

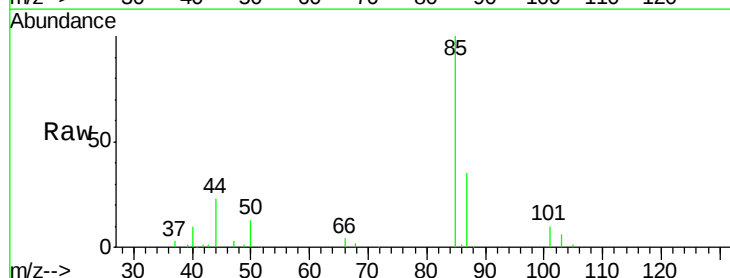
Acq: 29 Apr 2019 10:42

Tgt Ion: 85 Resp: 56704

Ion Ratio Lower Upper

85 100

87 34.8 16.1 48.3



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

1.85

40000

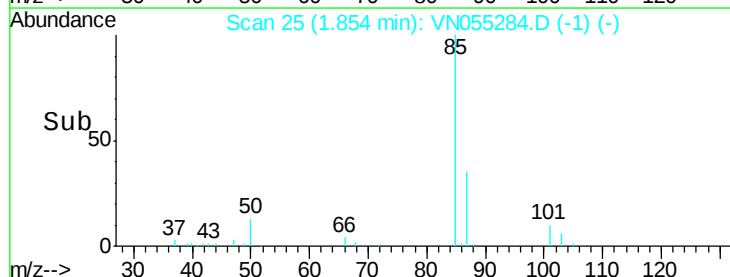
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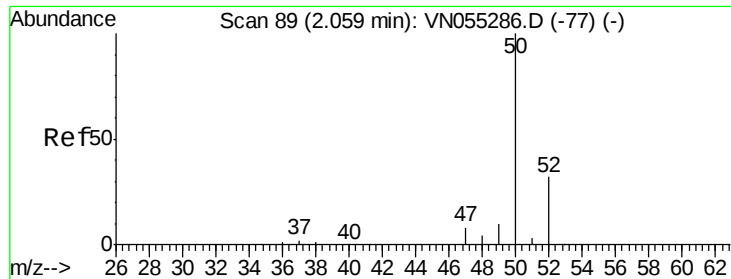
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10000

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Time-->





#3

Chloromethane

Concen: 10.312 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN055284.D

Acq: 29 Apr 2019 10:42

Instrument :

MSVOA_N

ClientSampled :

VSTDIC010

Tot Ion: 50 Resp: 66917

Ion Ratio Lower Upper

50 100

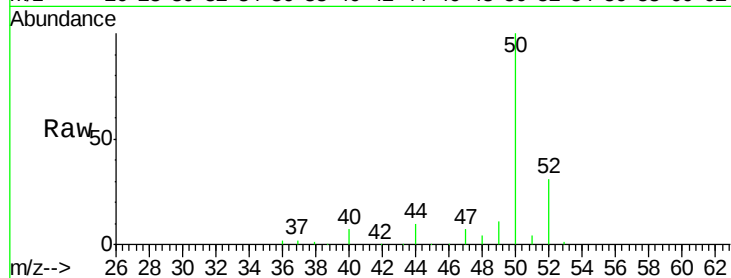
52 30.8 25.7 38.5

Manual Integrations

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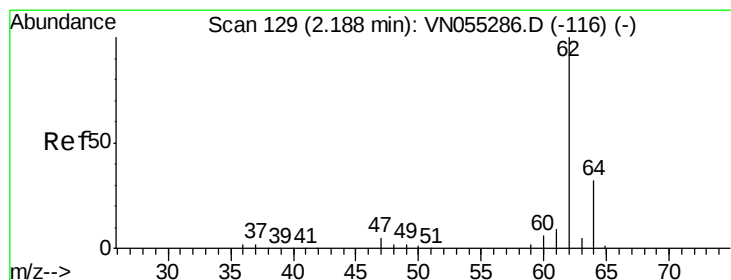
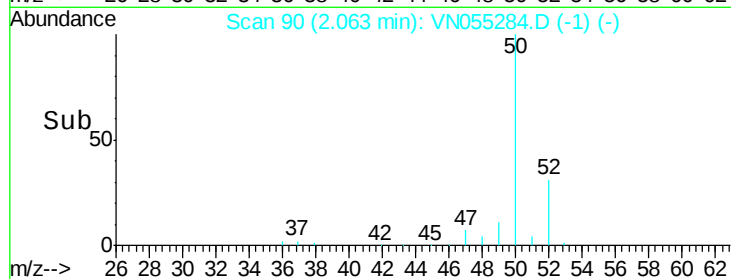
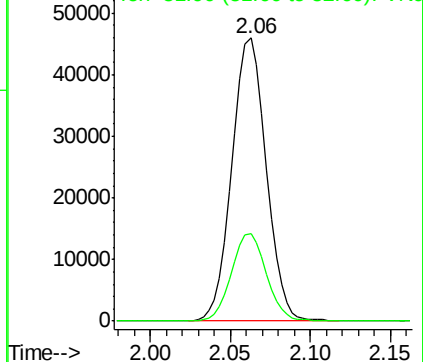
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Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO



#4

Vinyl Chloride

Concen: 10.183 ug/l

RT: 2.19 min Scan# 129

Delta R.T. 0.00 min

Lab File: VN055284.D

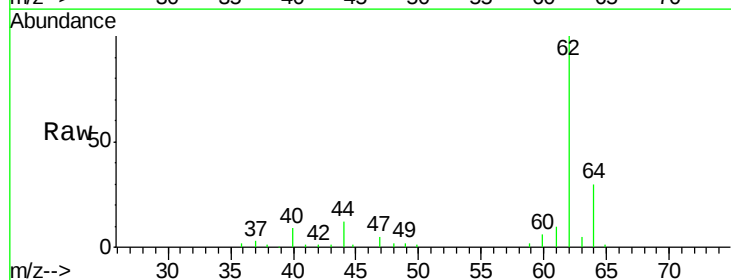
Acq: 29 Apr 2019 10:42

Tgt Ion: 62 Resp: 52909

Ion Ratio Lower Upper

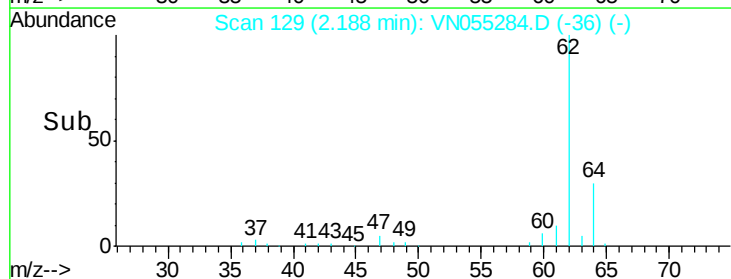
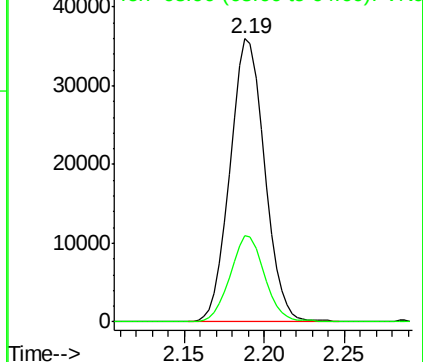
62 100

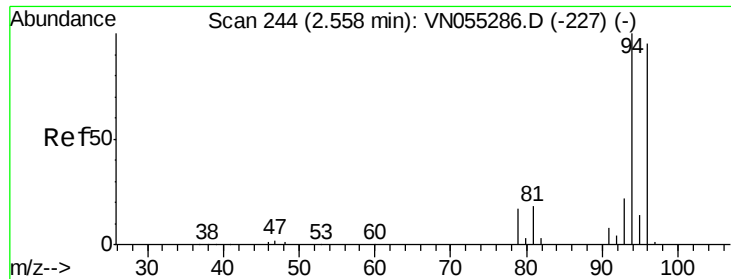
64 30.4 25.5 38.3



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO





#5

Bromomethane

Concen: 9.509 ug/l

RT: 2.56 min Scan# 246

Delta R.T. 0.01 min

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Acq: 29 Apr 2019 10:42

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MSVOA_N

ClientSampleId :

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Tot Ion: 94 Resp: 28840

Ion Ratio Lower Upper

94 100

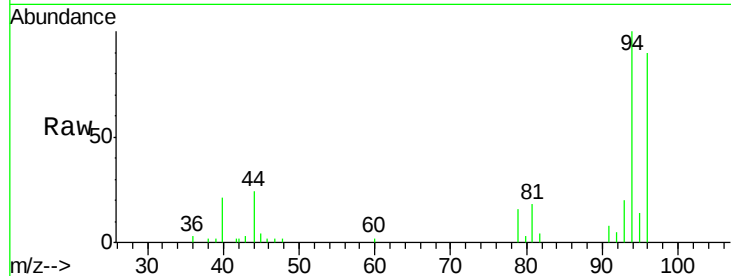
96 90.5 76.0 114.0

Manual Integrations

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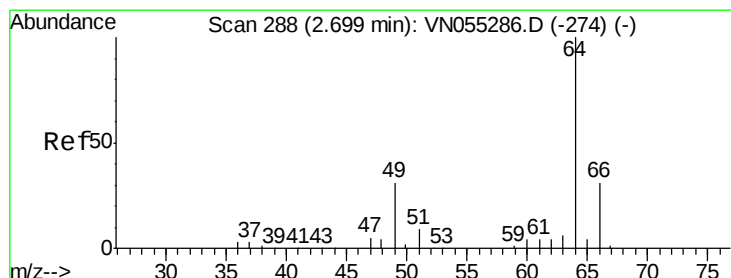
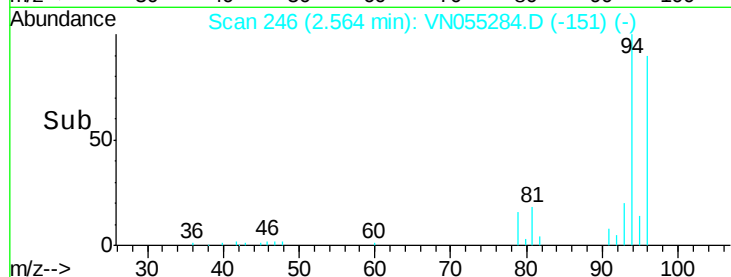
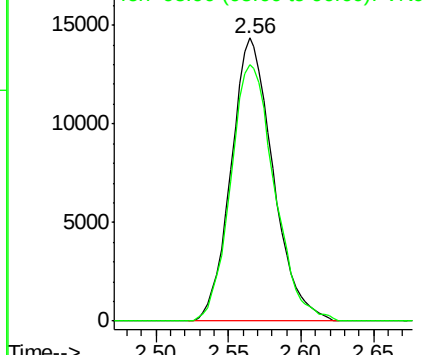
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Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO



#6

Chloroethane

Concen: 10.085 ug/l

RT: 2.71 min Scan# 290

Delta R.T. 0.01 min

Lab File: VN055284.D

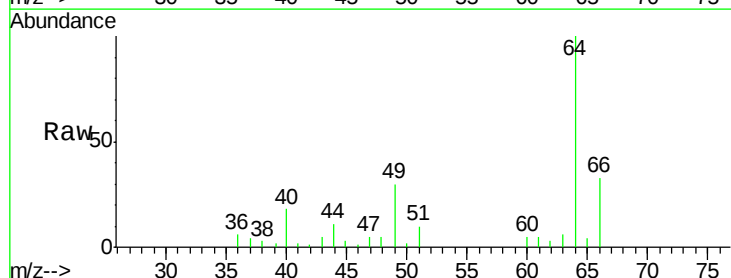
Acq: 29 Apr 2019 10:42

Tgt Ion: 64 Resp: 27841

Ion Ratio Lower Upper

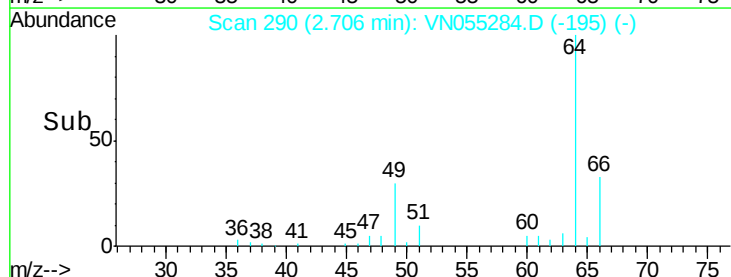
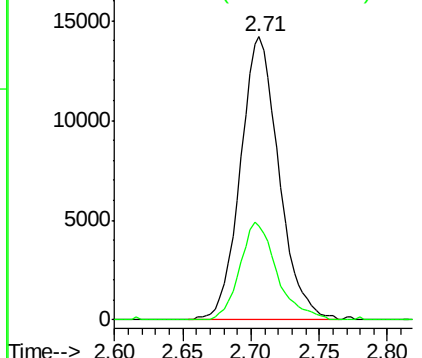
64 100

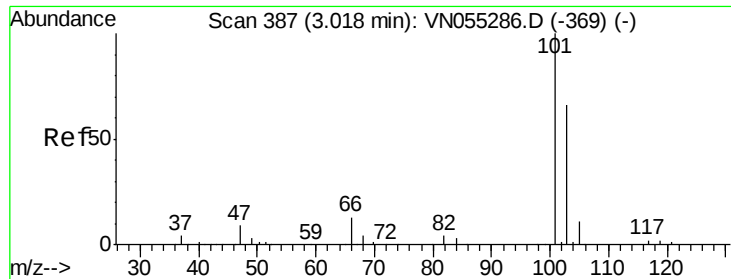
66 33.3 25.0 37.4



Abundance Ion 63.90 (63.60 to 64.60): VNO

Ion 65.90 (65.60 to 66.60): VNO





#7

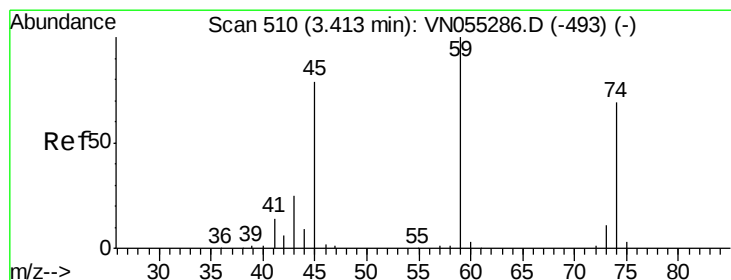
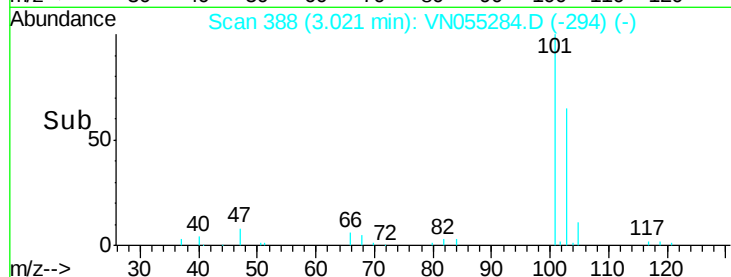
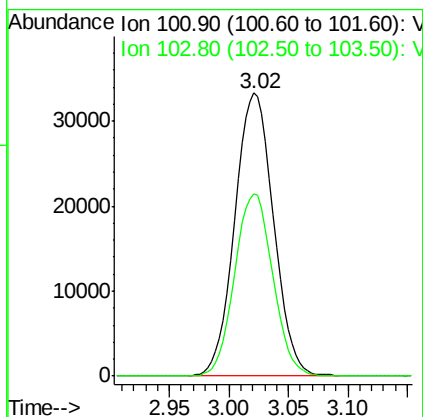
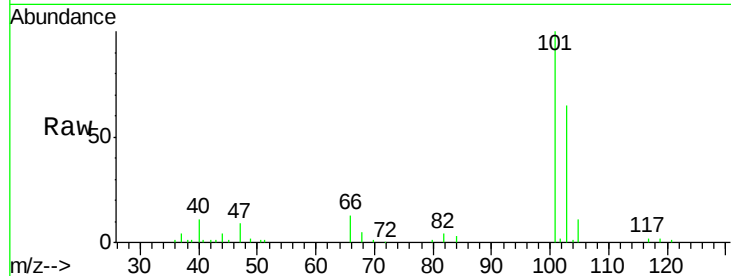
Trichlorofluoromethane
 Concen: 10.566 ug/l
 RT: 3.02 min Scan# 388
 Delta R.T. 0.00 min
 Lab File: VN055284.D
 Acq: 29 Apr 2019 10:42

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 VSTDIC010

Tot Ion:101 Resp: 75315
 Ion Ratio Lower Upper
 101 100
 103 64.5 52.6 79.0

Manual Integrations
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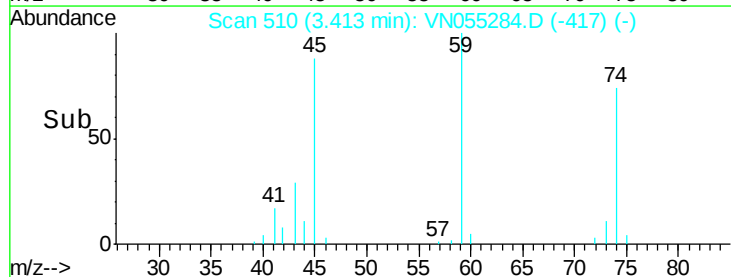
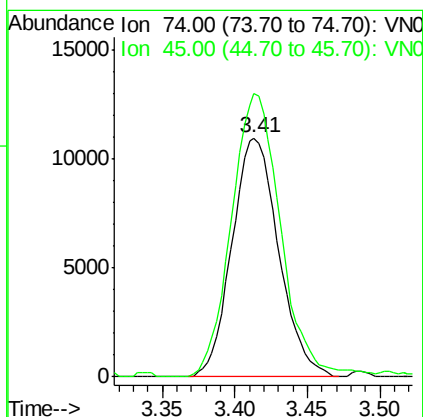
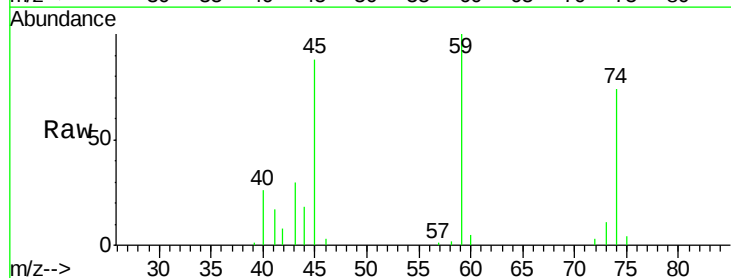
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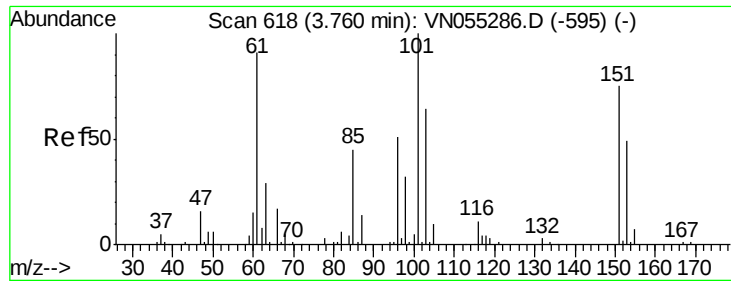


#8

Diethyl Ether
 Concen: 9.671 ug/l
 RT: 3.41 min Scan# 510
 Delta R.T. 0.00 min
 Lab File: VN055284.D
 Acq: 29 Apr 2019 10:42

Tgt Ion: 74 Resp: 24584
 Ion Ratio Lower Upper
 74 100
 45 125.3 58.9 176.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 9.837 ug/l

RT: 3.76 min Scan# 619

Delta R.T. 0.00 min

Lab File: VN055284.D

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Instrument :

MSVOA_N

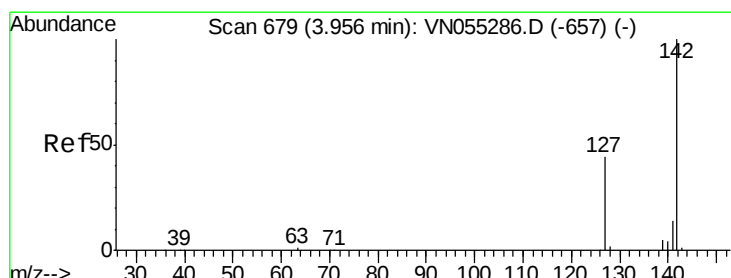
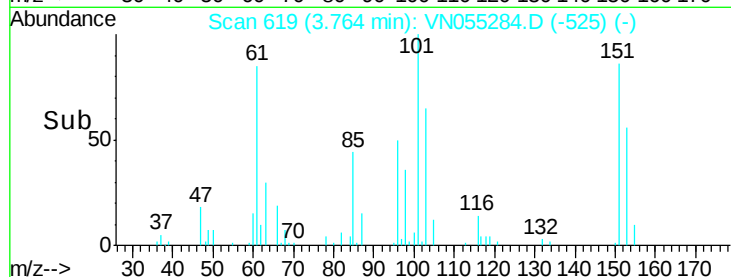
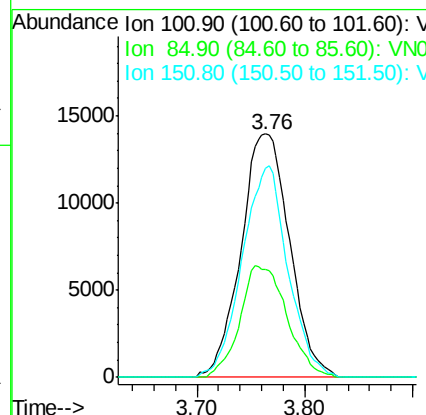
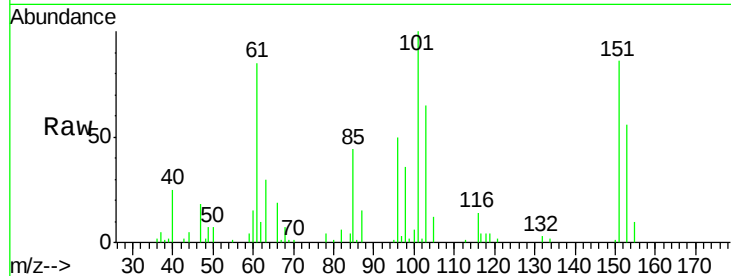
ClientSampleId :

VSTDIC010

Tot Ion:	101	Resp:	43747
Ion Ratio	Lower	Upper	
101	100		
85	44.2	35.7	53.5
151	81.6	63.3	94.9

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#10

Methyl Iodide

Concen: 10.033 ug/l

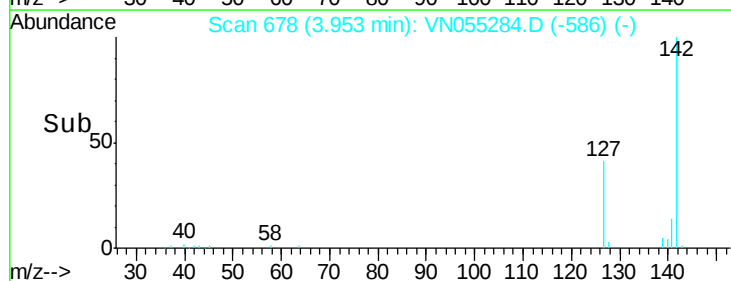
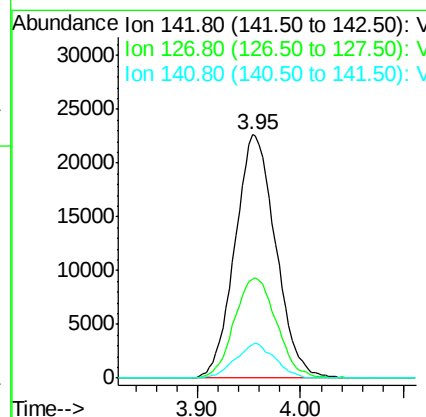
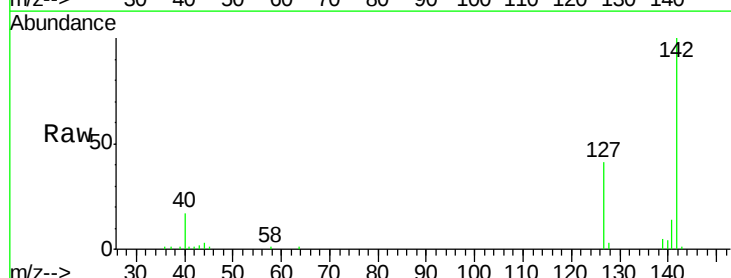
RT: 3.95 min Scan# 678

Delta R.T. -0.00 min

Lab File: VN055284.D

Acq: 29 Apr 2019 10:42

Tgt Ion:	142	Resp:	62142
Ion Ratio	Lower	Upper	
142	100		
127	42.7	34.4	51.6
141	13.7	11.5	17.3





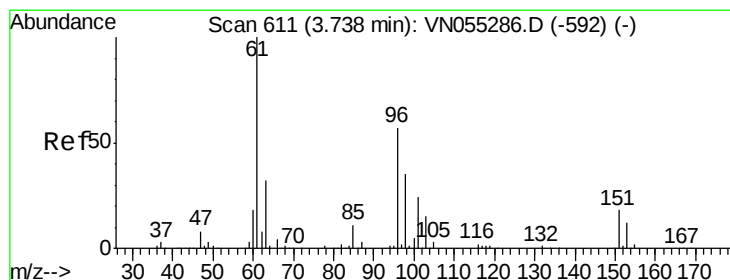
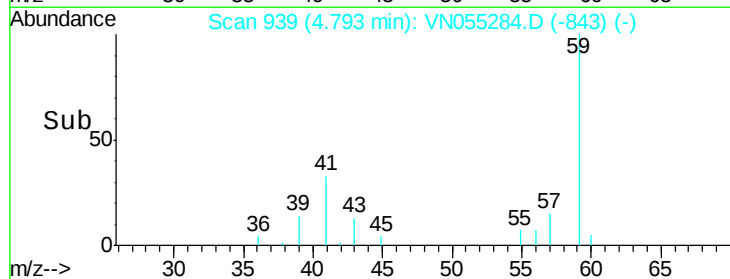
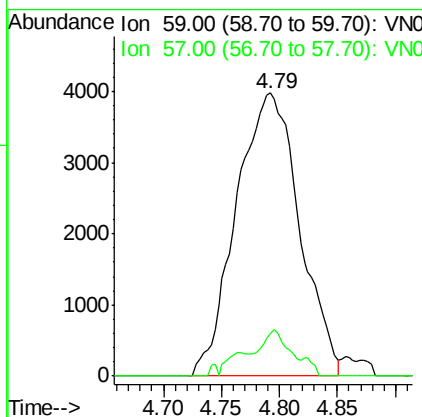
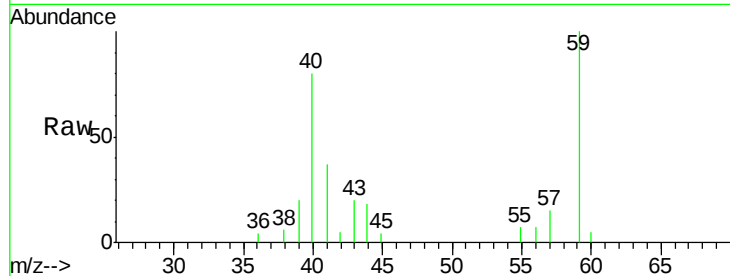
#11
Tert butyl alcohol
Concen: 46.074 ug/l
RT: 4.79 min Scan# 939
Delta R.T. 0.01 min
Lab File: VN055284.D
Acq: 29 Apr 2019 10:42

Instrument :
MSVOA_N
ClientSampled :
VSTDIC010

Tot Ion: 59 Resp: 15066
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#

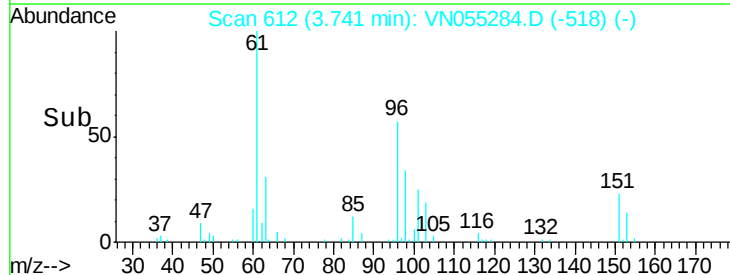
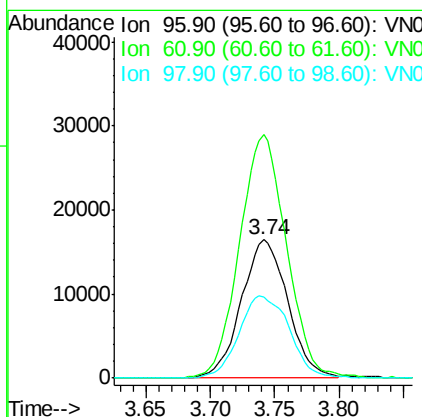
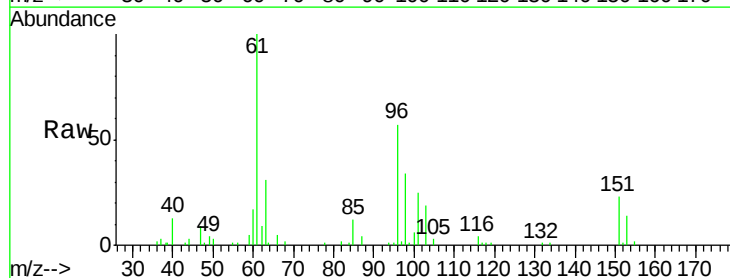
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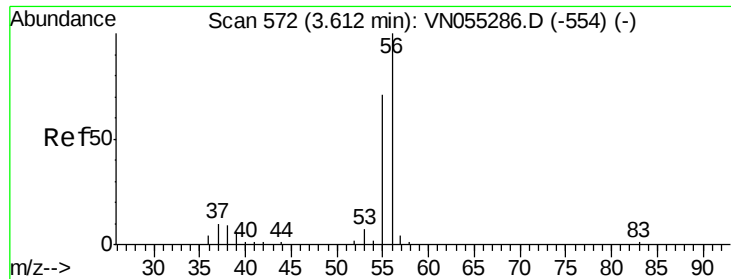
MMDadoda
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#12
1,1-Dichloroethene
Concen: 9.721 ug/l
RT: 3.74 min Scan# 612
Delta R.T. 0.00 min
Lab File: VN055284.D
Acq: 29 Apr 2019 10:42

Tgt Ion: 96 Resp: 41217
Ion Ratio Lower Upper
96 100
61 175.3 140.9 211.3
98 59.1 50.0 75.0





#13

Acrolein

Concen: 31.531 ug/l

RT: 3.61 min Scan# 572

Delta R.T. 0.00 min

Lab File: VN055284.D

Acq: 29 Apr 2019 10:42

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tot Ion: 56 Resp: 12815

Ion Ratio Lower Upper

56 100

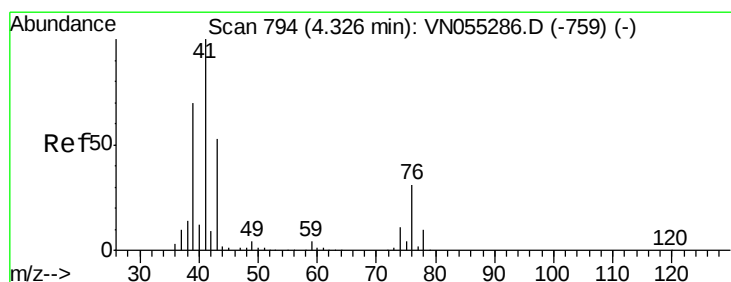
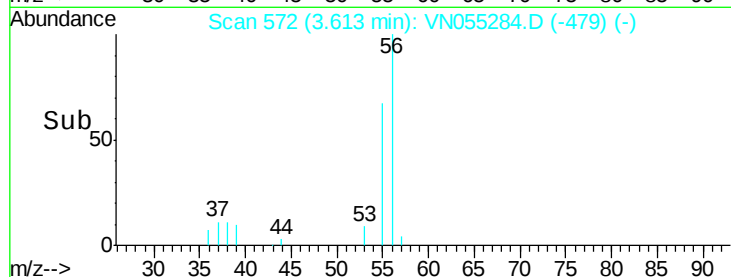
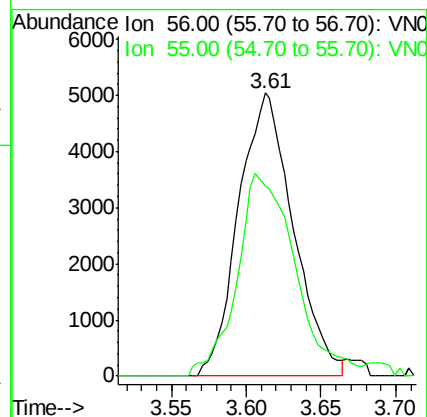
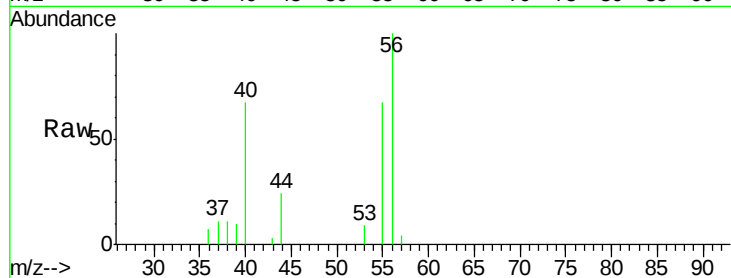
55 75.9 57.4 86.2

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#14

Allyl chloride

Concen: 10.203 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.00 min

Lab File: VN055284.D

Acq: 29 Apr 2019 10:42

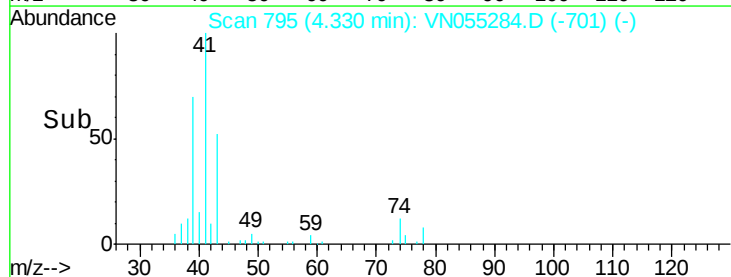
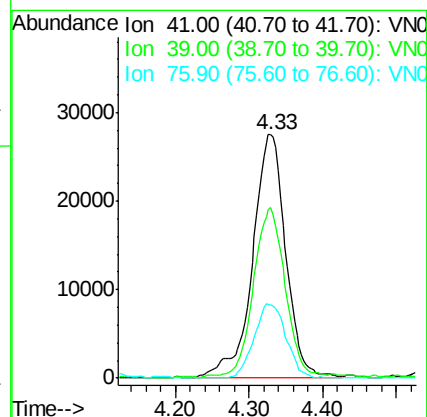
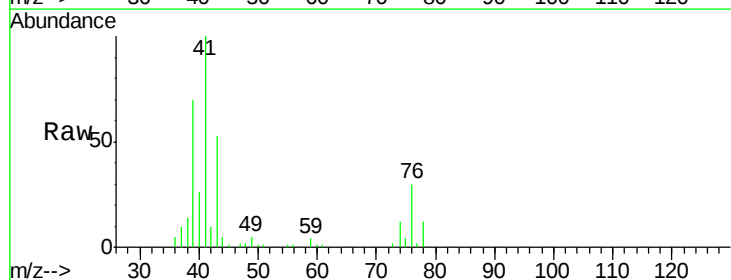
Tgt Ion: 41 Resp: 86386

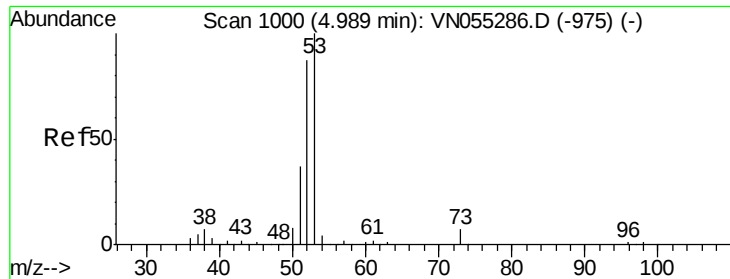
Ion Ratio Lower Upper

41 100

39 64.1 53.0 79.6

76 29.1 22.7 34.1





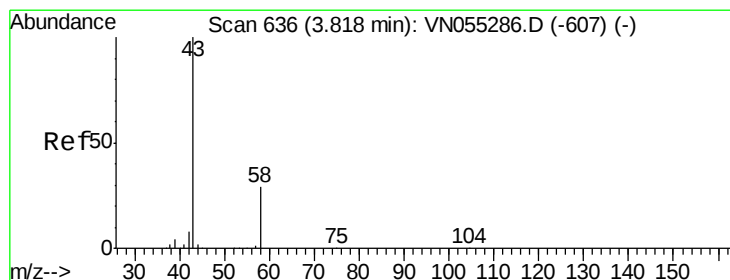
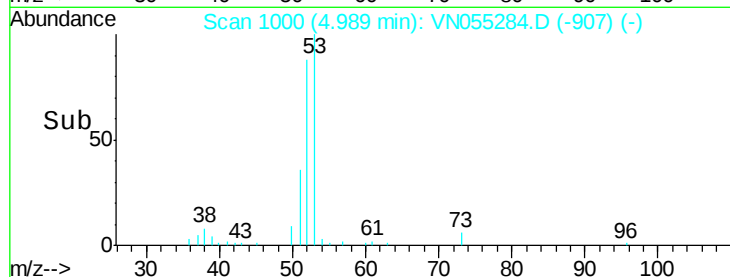
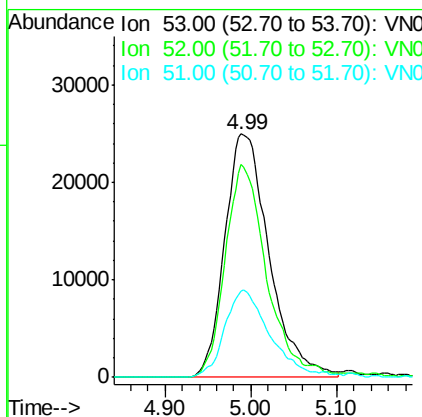
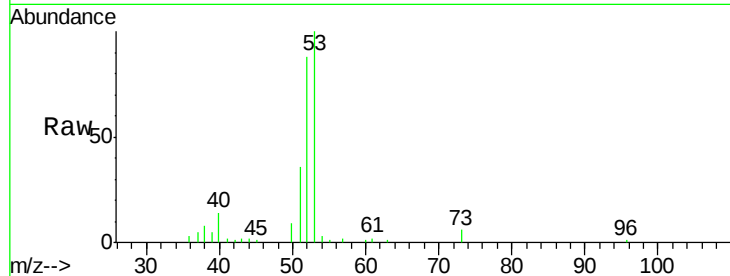
#15
 Acrylonitrile
 Concen: 49.907 ug/l
 RT: 4.99 min Scan# 1000
 Delta R.T. 0.00 min
 Lab File: VN055284.D
 Acq: 29 Apr 2019 10:42

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC010

Tot Ion	53	Resp	89666
Ion Ratio	100	Lower	Upper
53	100		
52	79.6	66.5	99.7
51	36.0	29.6	44.4

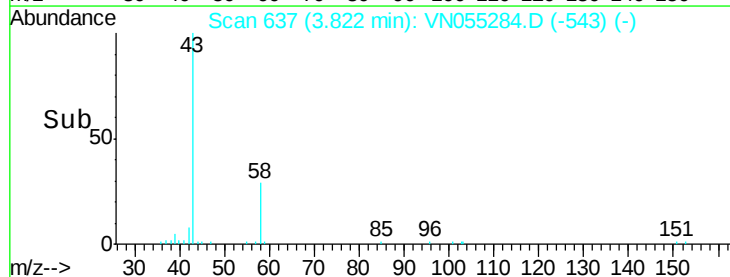
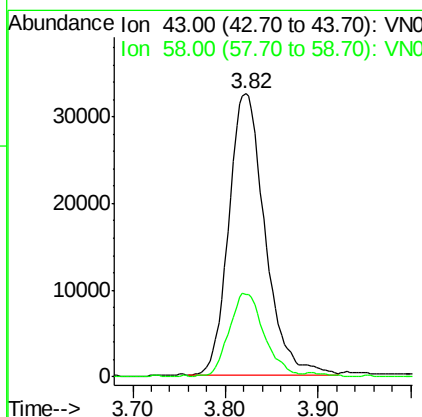
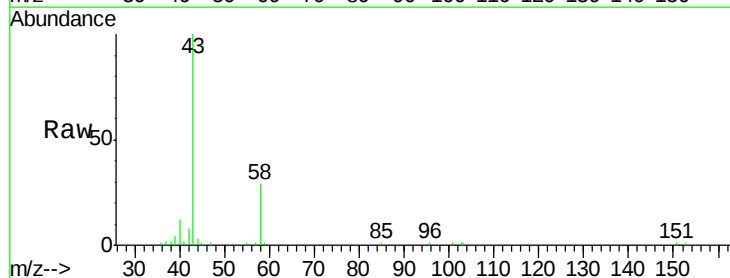
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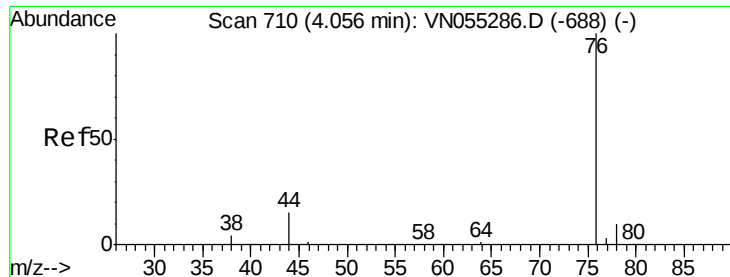
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#16
 Acetone
 Concen: 49.143 ug/l
 RT: 3.82 min Scan# 637
 Delta R.T. 0.00 min
 Lab File: VN055284.D
 Acq: 29 Apr 2019 10:42

Tgt Ion	43	Resp	87982
Ion Ratio	100	Lower	Upper
43	100		
58	29.5	23.6	35.4





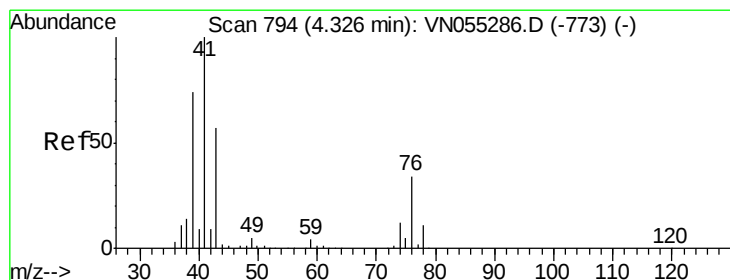
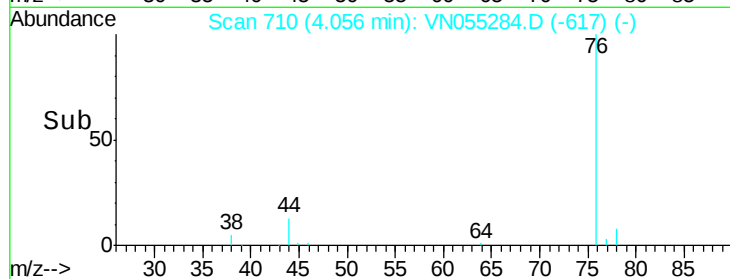
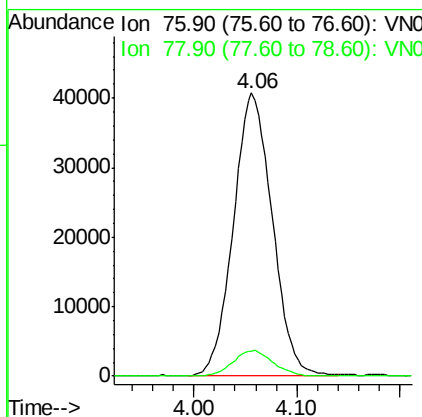
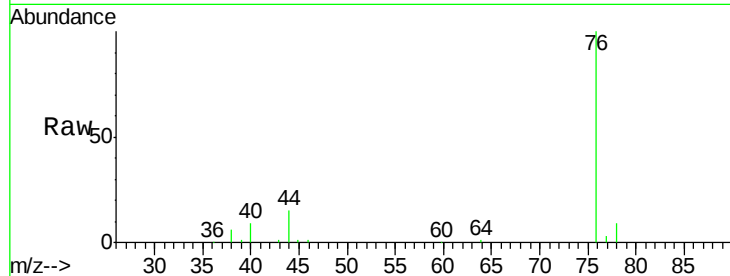
#17
Carbon Disulfide
Concen: 9.115 ug/l
RT: 4.06 min Scan# 710
Delta R.T. 0.00 min
Lab File: VN055284.D
Acq: 29 Apr 2019 10:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.6	11.4

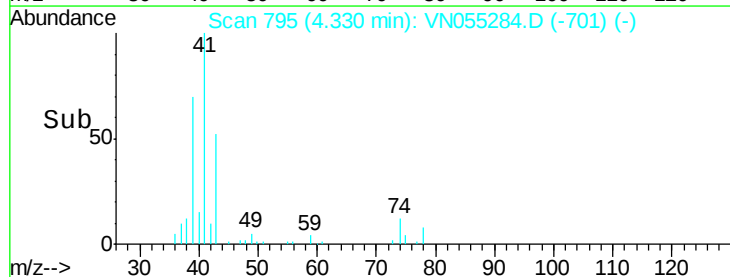
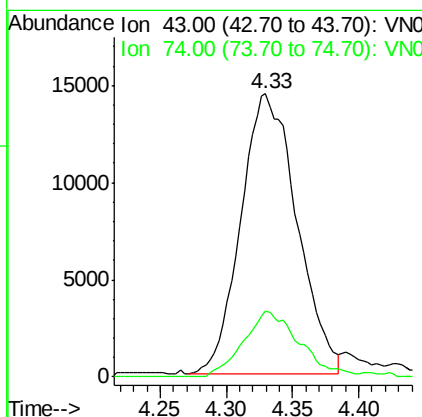
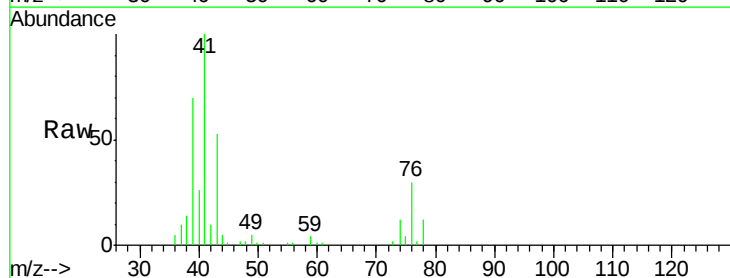
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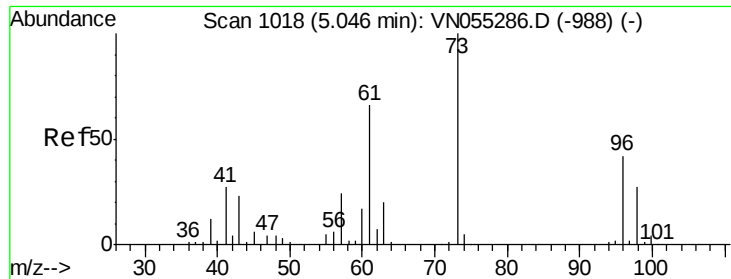
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#18
Methyl Acetate
Concen: 8.313 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.00 min
Lab File: VN055284.D
Acq: 29 Apr 2019 10:42

Tgt Ion	Ratio	Lower	Upper
43	100		
74	23.5	15.8	23.8





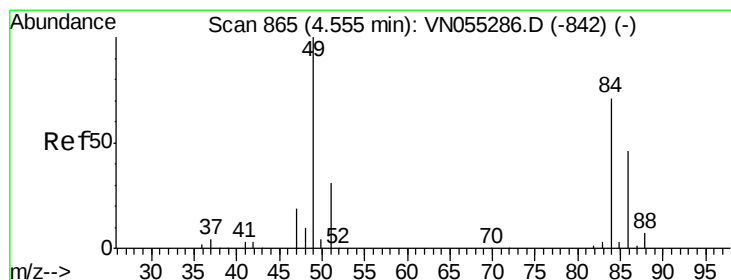
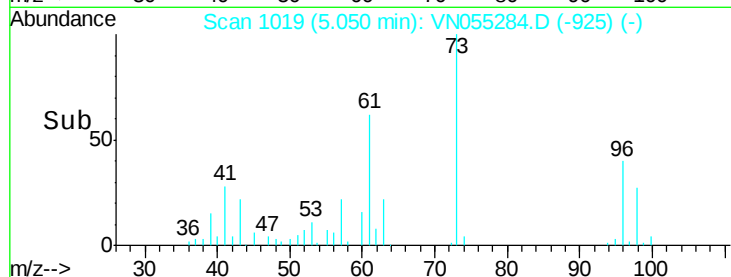
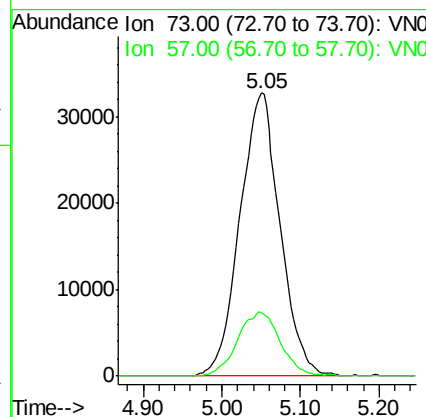
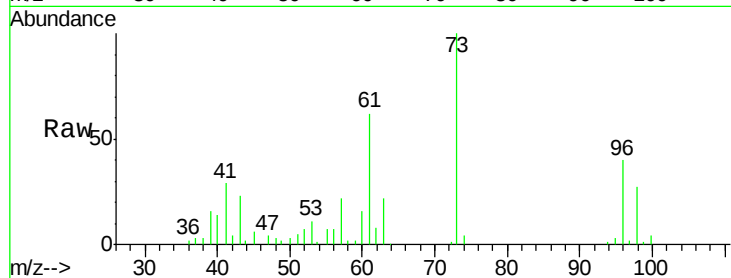
#19
Methvl tert-butvl Ether
Concen: 9.912 ug/l
RT: 5.05 min Scan# 1019
Delta R.T. 0.00 min
Lab File: VN055284.D
Acq: 29 Apr 2019 10:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC010

Tot Ion: 73 Resp: 117397
Ion Ratio Lower Upper
73 100
57 22.5 19.1 28.7

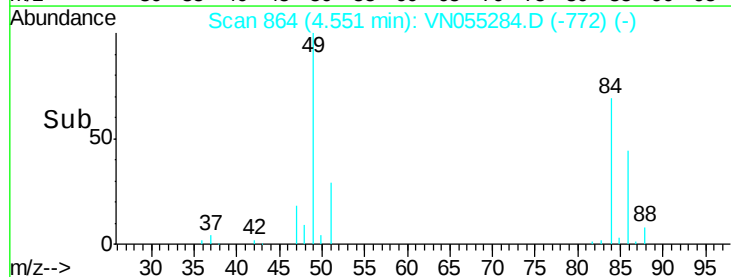
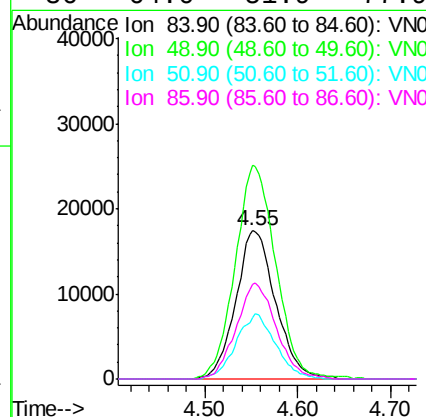
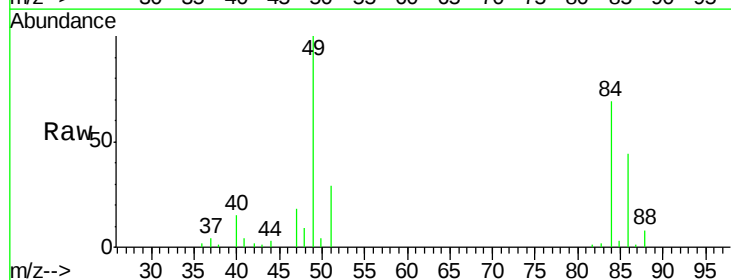
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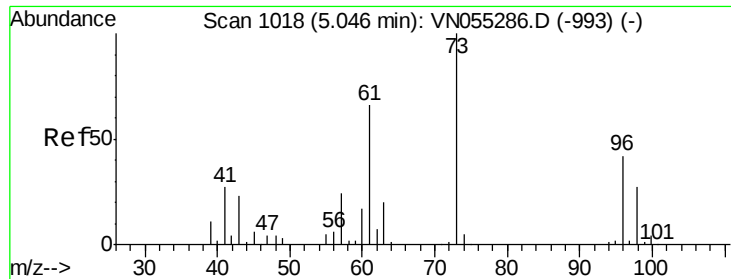
MMDadoda
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#20
Methylene Chloride
Concen: 9.747 ug/l
RT: 4.55 min Scan# 864
Delta R.T. -0.00 min
Lab File: VN055284.D
Acq: 29 Apr 2019 10:42

Tgt Ion: 84 Resp: 51947
Ion Ratio Lower Upper
84 100
49 144.2 112.4 168.6
51 41.9 34.6 51.8
86 64.0 51.9 77.9





#21

trans-1,2-Dichloroethene

Concen: 9.927 ug/l

RT: 5.05 min Scan# 1019

Delta R.T. 0.00 min

Lab File: VN055284.D

Acq: 29 Apr 2019 10:42

Instrument :

MSVOA_N

ClientSampled :

VSTDIC010

Tot Ion: 96 Resp: 44156

Ion Ratio Lower Upper

96 100

61 153.3 126.2 189.4

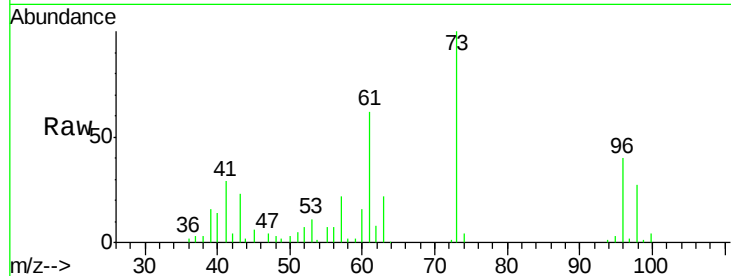
98 67.3 52.2 78.2

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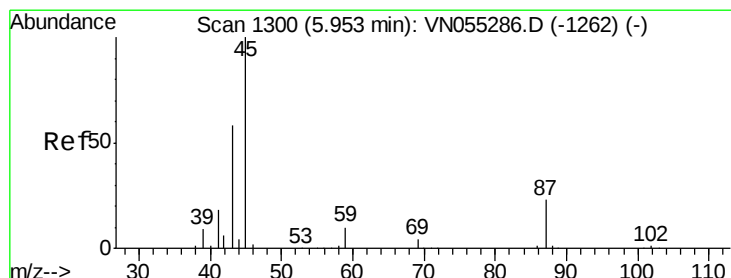
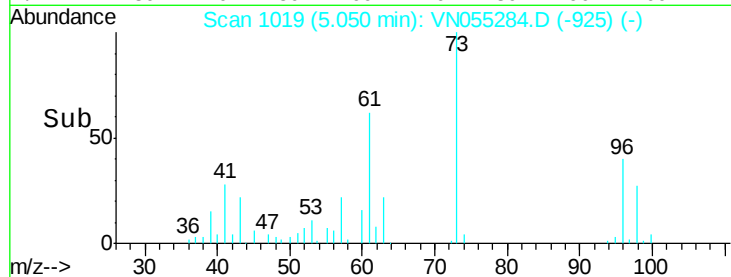
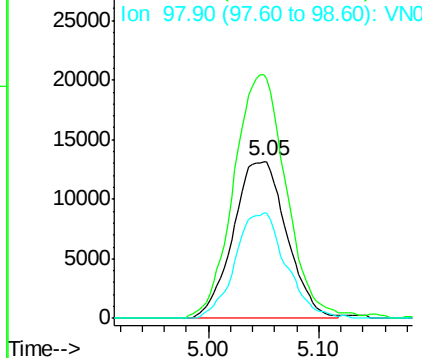
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Abundance Ion 95.90 (95.60 to 96.60): VNO
Ion 60.90 (60.60 to 61.60): VNO
Ion 97.90 (97.60 to 98.60): VNO



#22

Diisopropyl ether

Concen: 10.077 ug/l

RT: 5.96 min Scan# 1301

Delta R.T. 0.00 min

Lab File: VN055284.D

Acq: 29 Apr 2019 10:42

Tgt Ion: 45 Resp: 170623

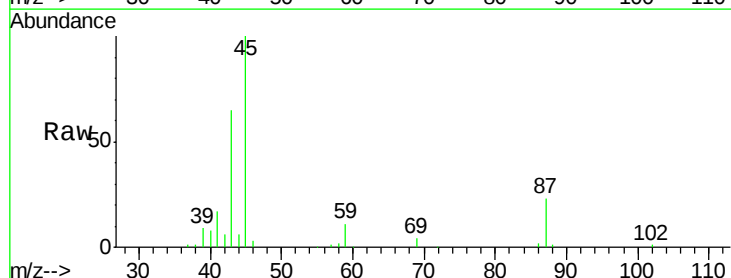
Ion Ratio Lower Upper

45 100

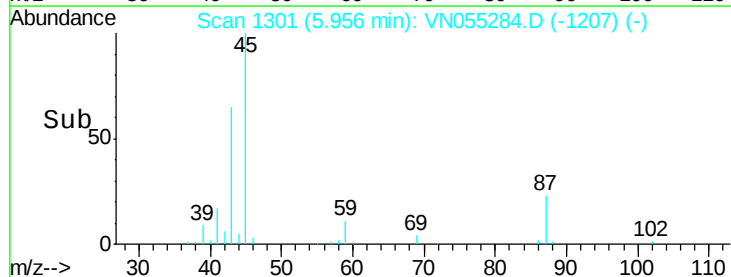
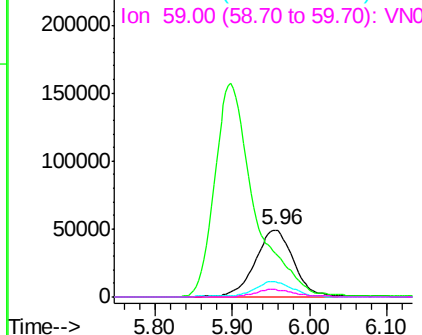
43 61.9 46.6 70.0

87 22.4 18.1 27.1

59 11.0 8.2 12.2



Abundance Ion 45.00 (44.70 to 45.70): VNO
Ion 43.00 (42.70 to 43.70): VNO
Ion 87.00 (86.70 to 87.70): VNO
Ion 59.00 (58.70 to 59.70): VNO





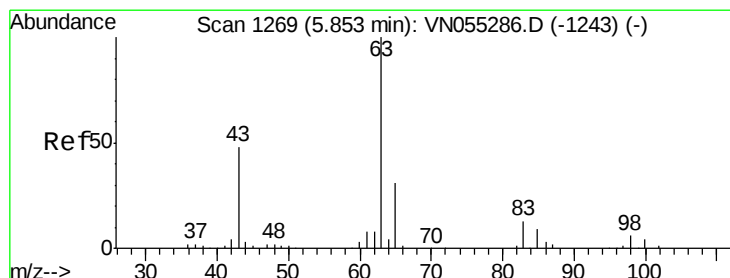
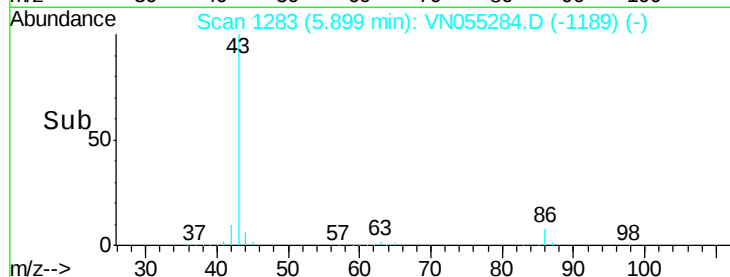
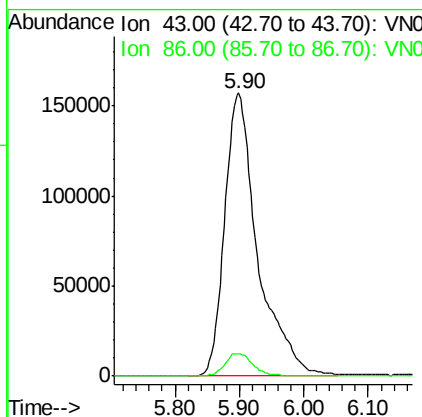
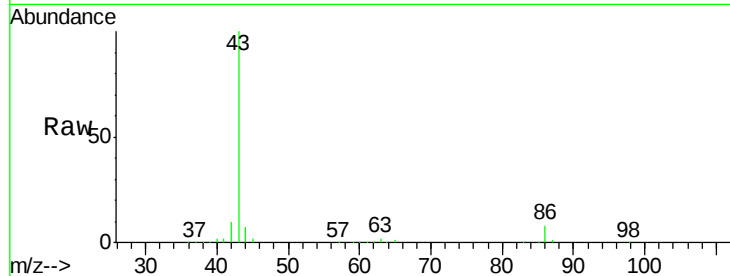
#23
 Vinyl Acetate
 Concen: 49.694 ug/l
 RT: 5.90 min Scan# 1283
 Delta R.T. 0.00 min
 Lab File: VN055284.D
 Acq: 29 Apr 2019 10:42

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC010

Tot Ion	43	Resp	561589
Ion Ratio	100	Lower	Upper
43	100		
86	7.9	6.6	10.0

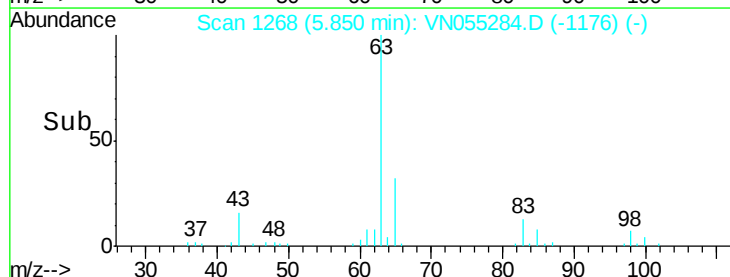
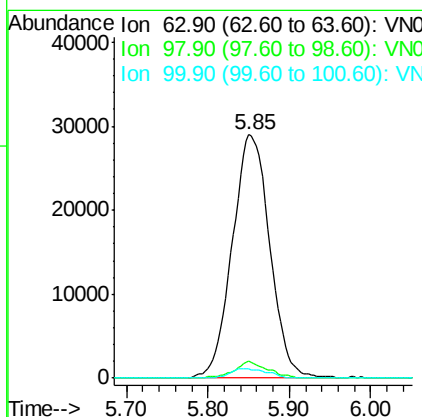
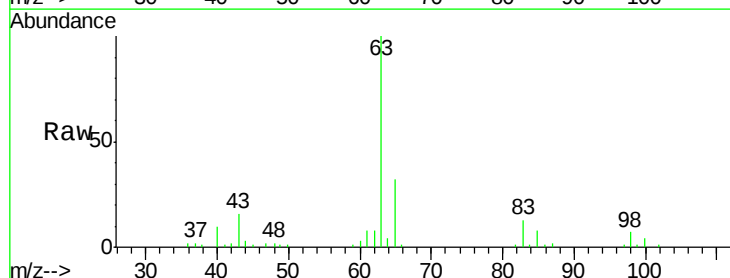
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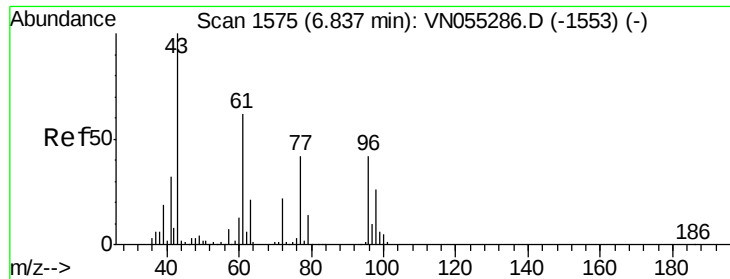
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 4/30/2019 11:58:54 AM



#24
 1,1-Dichloroethane
 Concen: 10.218 ug/l
 RT: 5.85 min Scan# 1268
 Delta R.T. -0.00 min
 Lab File: VN055284.D
 Acq: 29 Apr 2019 10:42

Tgt Ion	63	Resp	92486
Ion Ratio	100	Lower	Upper
63	100		
98	6.8	3.0	9.0
100	3.6	1.8	5.4





#25

2-Butanone

Concen: 45.093 ug/l

RT: 6.84 min Scan# 1576

Delta R.T. 0.00 min

Lab File: VN055284.D

Acq: 29 Apr 2019 10:42

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tot Ion: 43 Resp: 106656

Ion Ratio Lower Upper

43 100

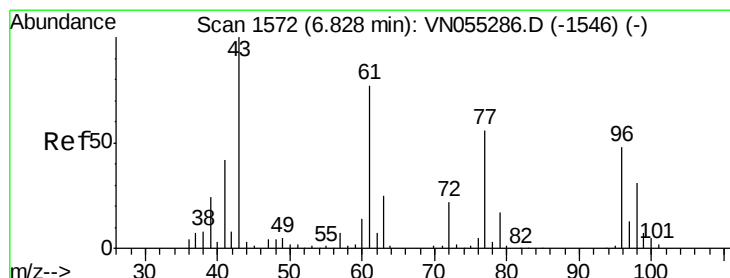
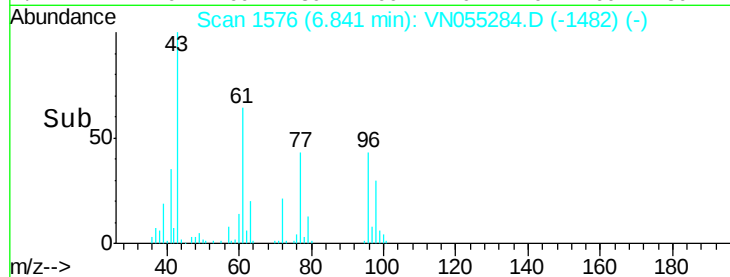
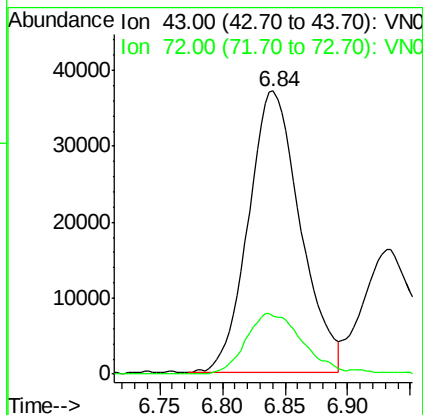
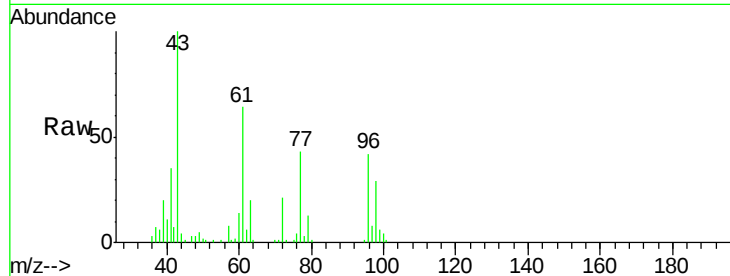
72 20.7 18.0 27.0

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 10.282 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VN055284.D

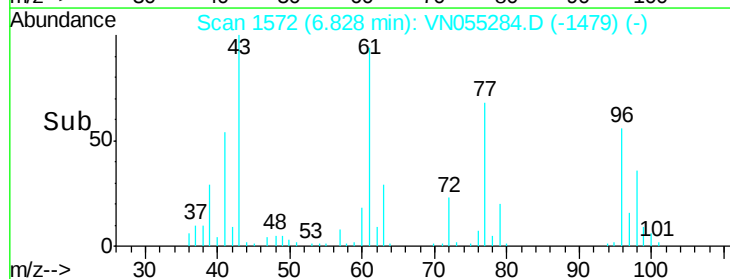
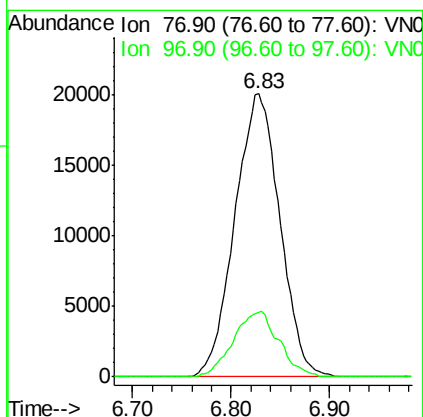
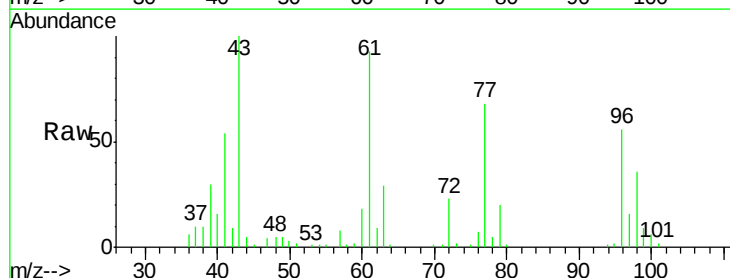
Acq: 29 Apr 2019 10:42

Tgt Ion: 77 Resp: 63328

Ion Ratio Lower Upper

77 100

97 23.3 11.4 34.2





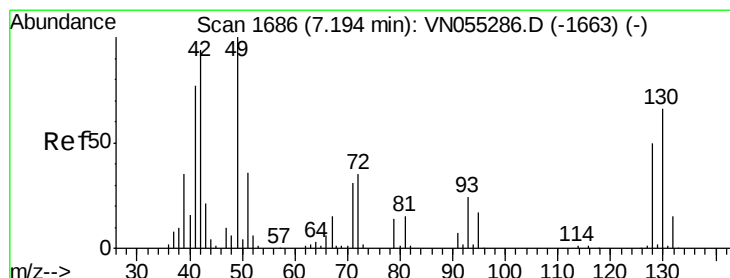
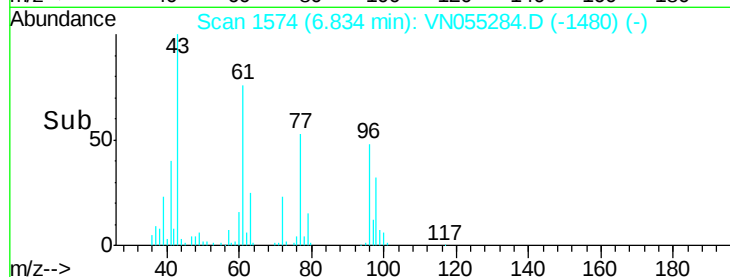
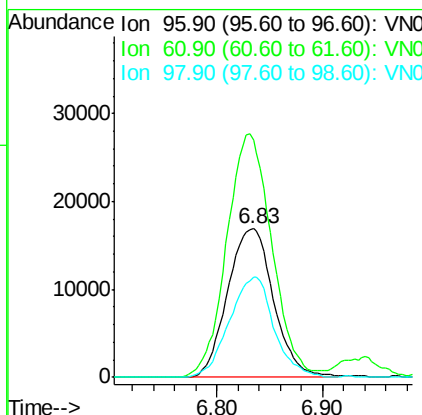
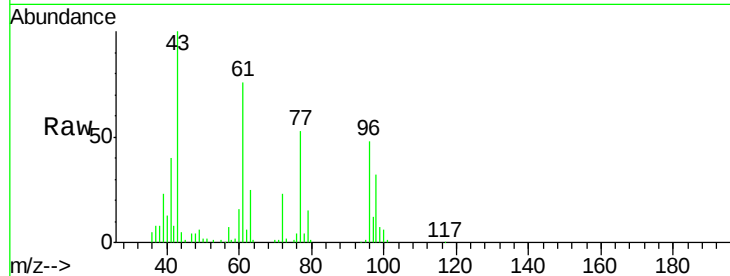
#27
 cis-1,2-Dichloroethene
 Concen: 9.953 ug/l
 RT: 6.83 min Scan# 1574
 Delta R.T. 0.00 min
 Lab File: VN055284.D
 Acq: 29 Apr 2019 10:42

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC010

Tot Ion	Ratio	Lower	Upper
96	100		
61	160.3	0.0	316.2
98	65.2	0.0	126.6

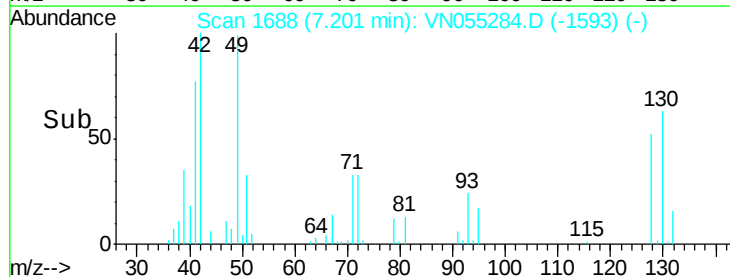
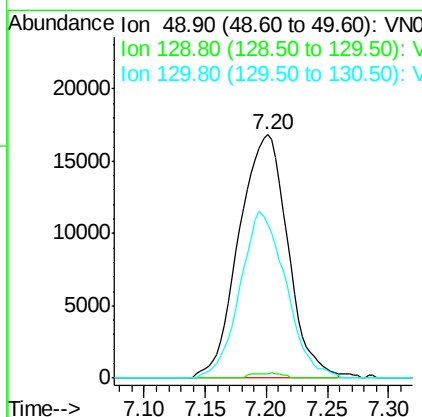
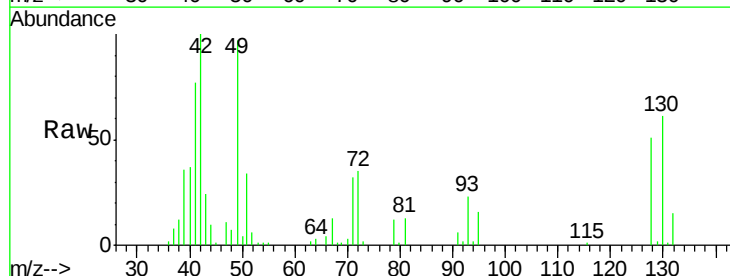
Manual Integrations
 APPROVED

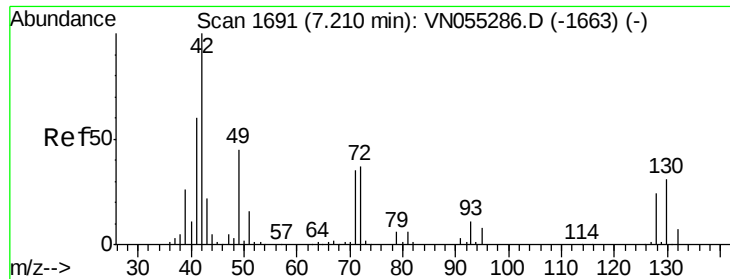
MMDadoda
 4/30/2019 11:58:54 AM



#28
 Bromochloromethane
 Concen: 10.105 ug/l
 RT: 7.20 min Scan# 1688
 Delta R.T. 0.01 min
 Lab File: VN055284.D
 Acq: 29 Apr 2019 10:42

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.7	0.0	2.4
130	64.5	52.0	78.0





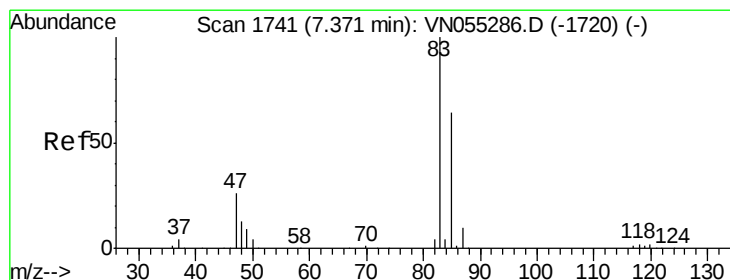
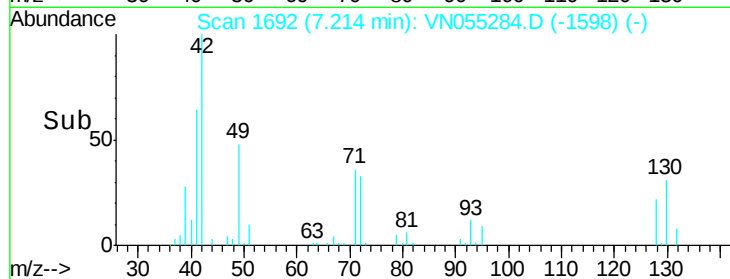
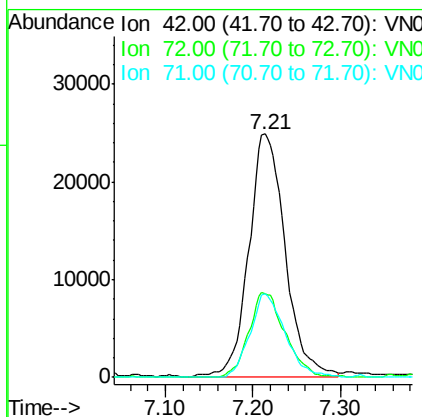
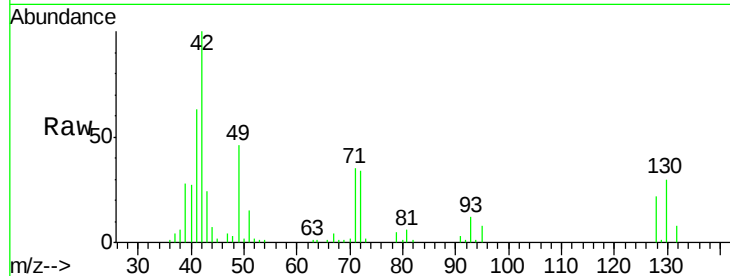
#29
Tetrahydrofuran
Concen: 49.094 ug/l
RT: 7.21 min Scan# 1692
Delta R.T. 0.00 min
Lab File: VN055284.D
Acq: 29 Apr 2019 10:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Lower	Upper
42	100		
72	34.6	29.0	43.6
71	32.9	27.1	40.7

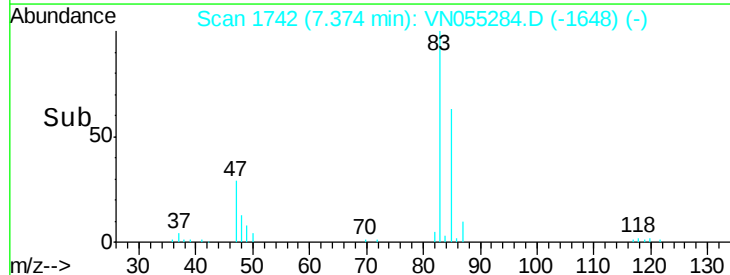
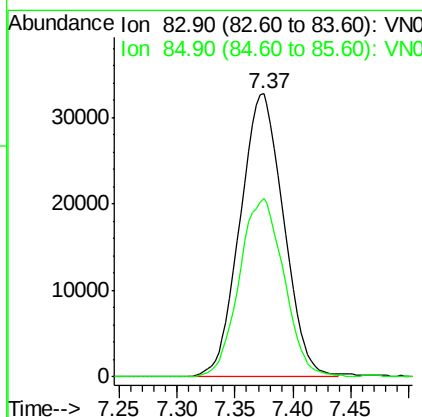
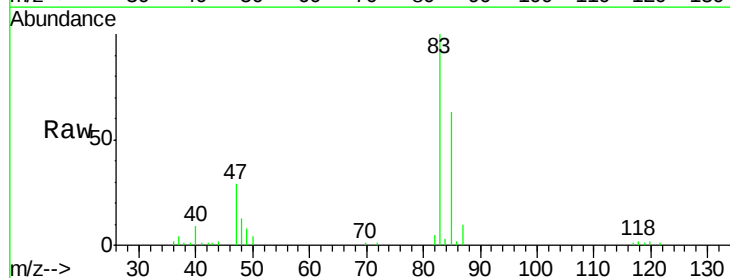
Manual Integrations
APPROVED

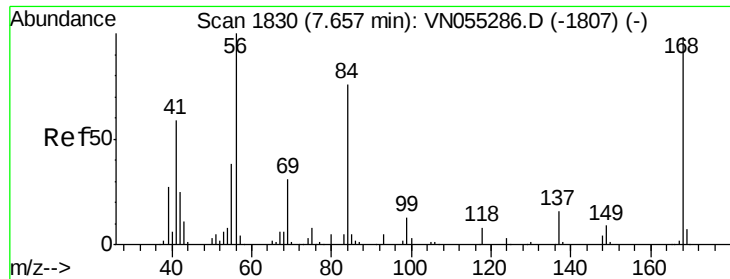
MMDadoda
4/30/2019 11:58:54 AM



#30
Chloroform
Concen: 9.952 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN055284.D
Acq: 29 Apr 2019 10:42

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.2	51.4	77.2





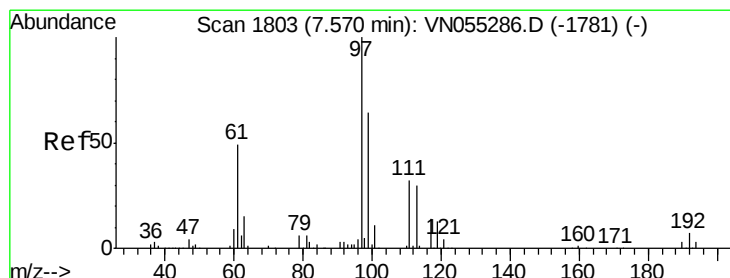
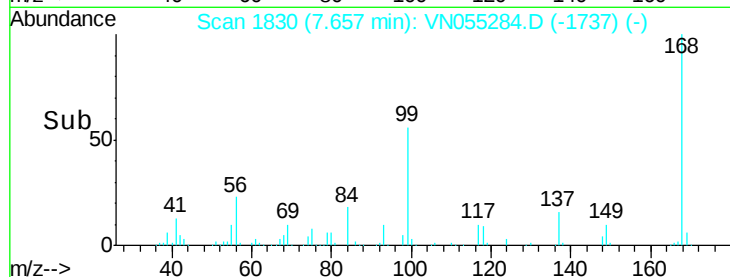
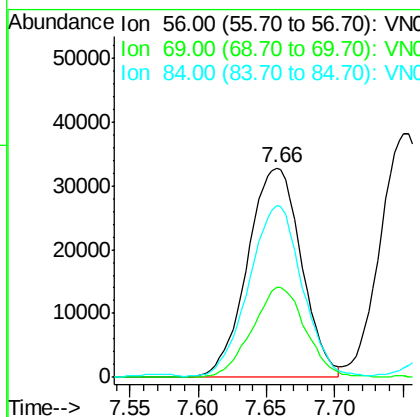
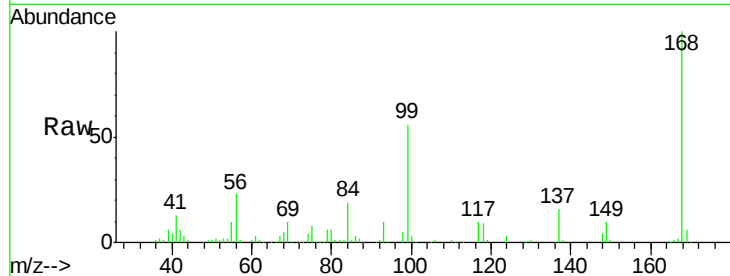
#31
Cyclohexane
Concen: 8.673 ug/l
RT: 7.66 min Scan# 1830
Delta R.T. 0.00 min
Lab File: VN055284.D
Acq: 29 Apr 2019 10:42

Instrument :
MSVOA_N
ClientSampleID :
VSTDIC010

Tot Ion	Ratio	Lower	Upper
56	100		
69	43.0	25.2	37.8#
84	81.3	61.1	91.7

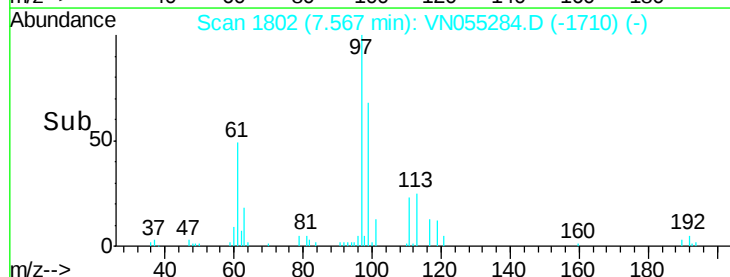
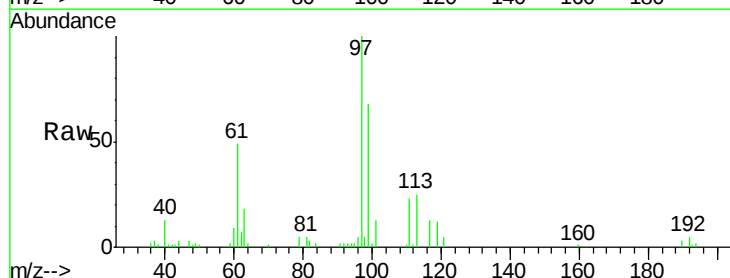
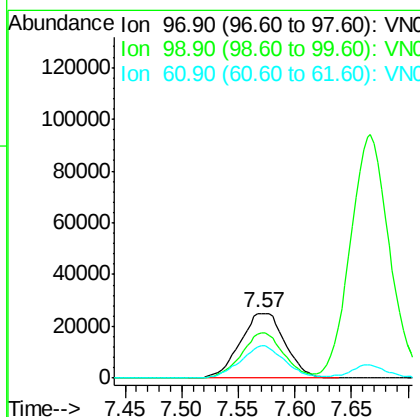
Manual Integrations
APPROVED

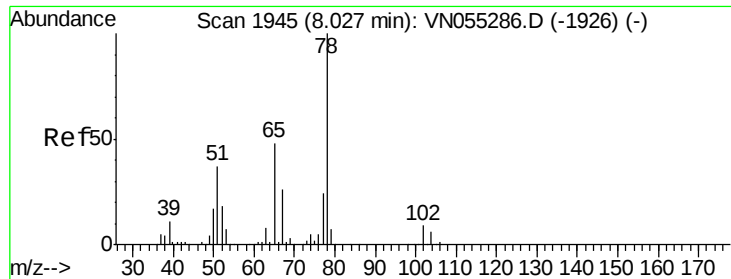
MMDadoda
4/30/2019 11:58:54 AM



#32
1,1,1-Trichloroethane
Concen: 10.017 ug/l
RT: 7.57 min Scan# 1802
Delta R.T. -0.00 min
Lab File: VN055284.D
Acq: 29 Apr 2019 10:42

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.2	51.8	77.8
61	49.3	39.0	58.6





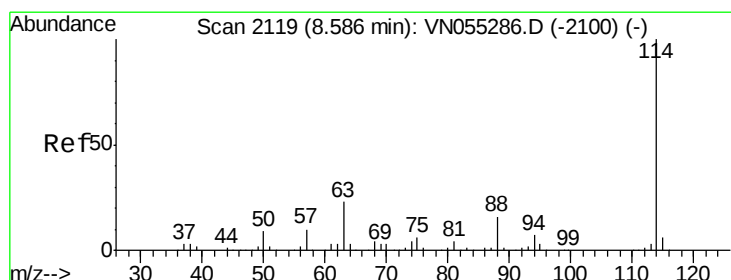
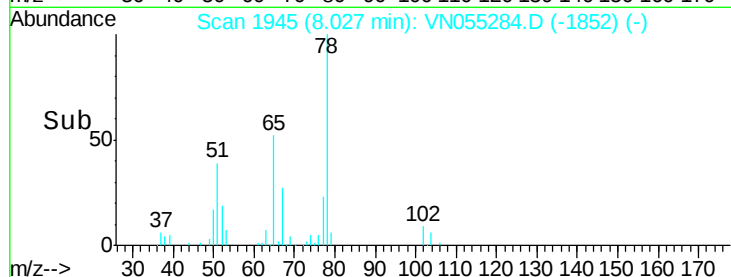
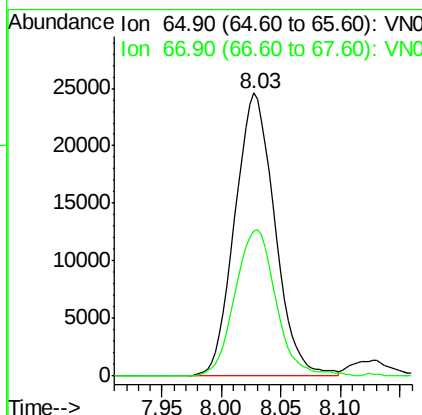
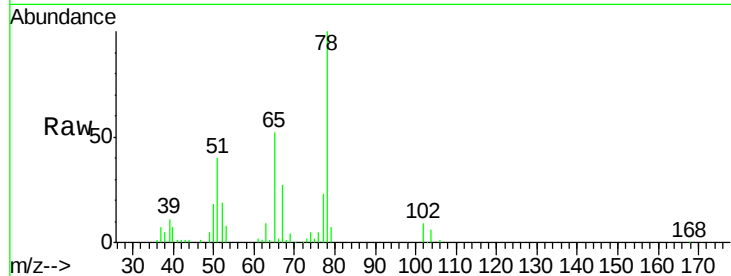
#33
 1,2-Dichloroethane-d4
 Concen: 10.208 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN055284.D
 Acq: 29 Apr 2019 10:42

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC010

Tot Ion	Ratio	Lower	Upper
65	100		
67	53.2	0.0	106.8

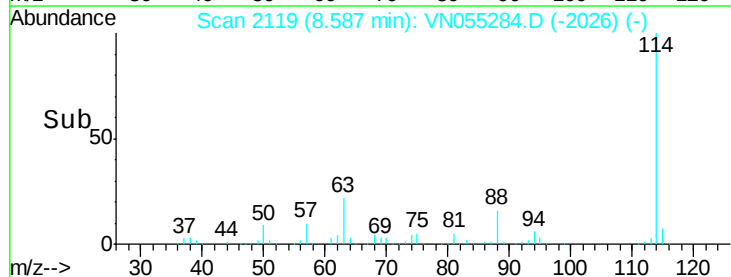
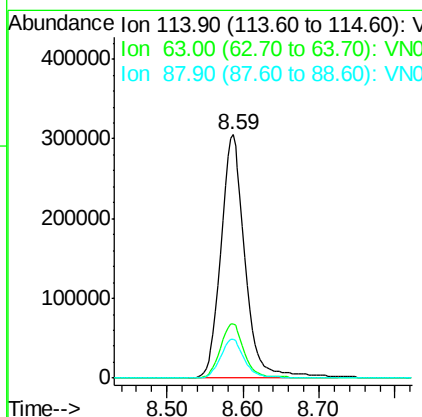
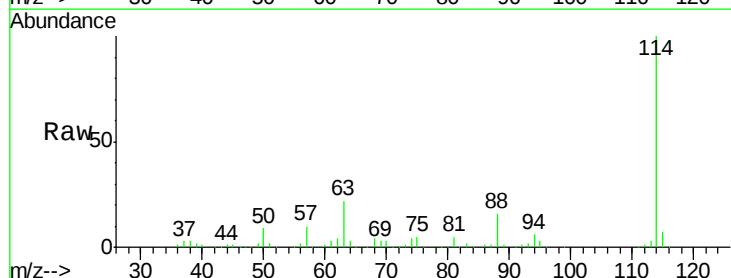
Manual Integrations
 APPROVED

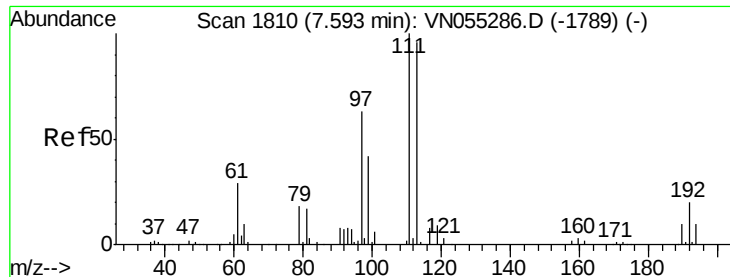
MMDadoda
 4/30/2019 11:58:54 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN055284.D
 Acq: 29 Apr 2019 10:42

Tgt Ion	Ratio	Lower	Upper
114	100		
63	22.4	0.0	45.2
88	16.1	0.0	31.6





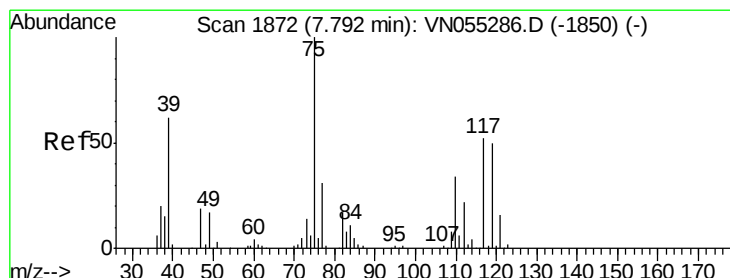
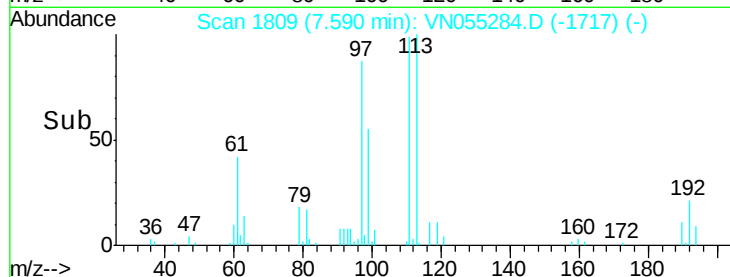
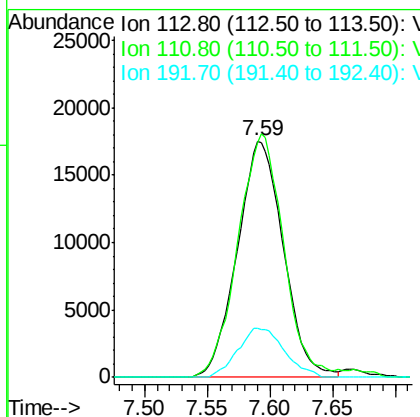
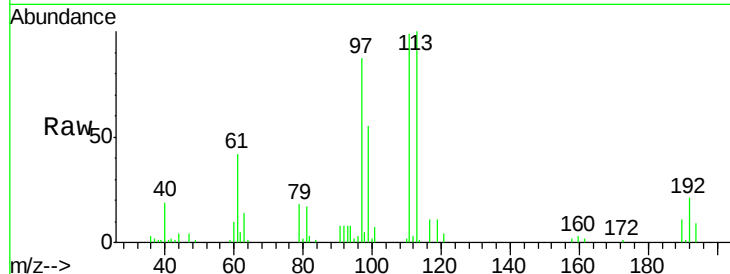
#35
Dibromofluoromethane
Concen: 9.879 ug/l
RT: 7.59 min Scan# 1809
Delta R.T. -0.00 min
Lab File: VN055284.D
Acq: 29 Apr 2019 10:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Lower	Upper
113	100		
111	101.8	82.3	123.5
192	21.0	17.0	25.6

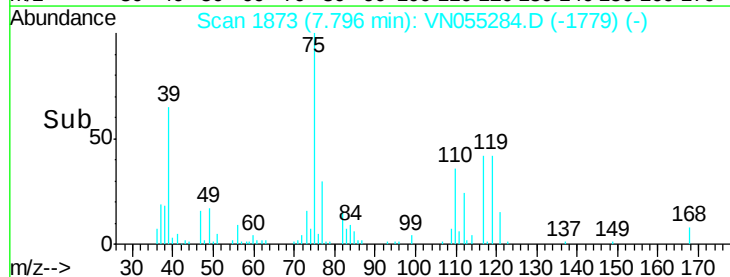
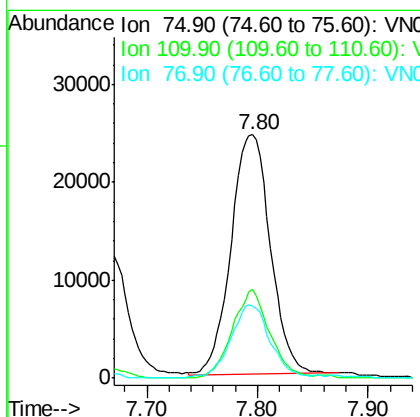
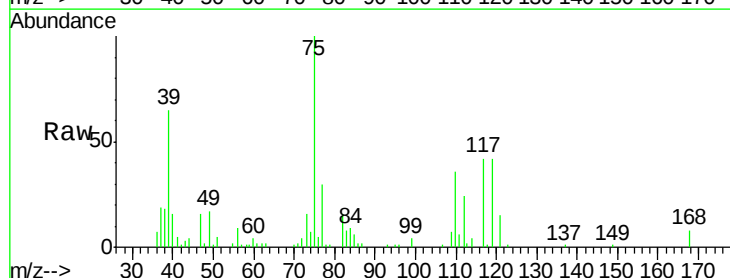
Manual Integrations
APPROVED

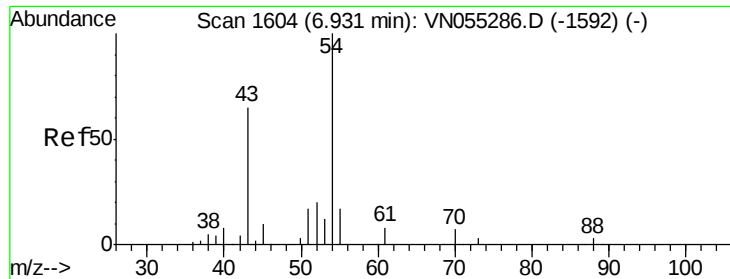
MMDadoda
4/30/2019 11:58:54 AM



#36
1,1-Dichloropropene
Concen: 9.851 ug/l
RT: 7.80 min Scan# 1873
Delta R.T. 0.00 min
Lab File: VN055284.D
Acq: 29 Apr 2019 10:42

Tgt Ion	Ratio	Lower	Upper
75	100		
110	34.7	16.8	50.4
77	30.6	25.0	37.6





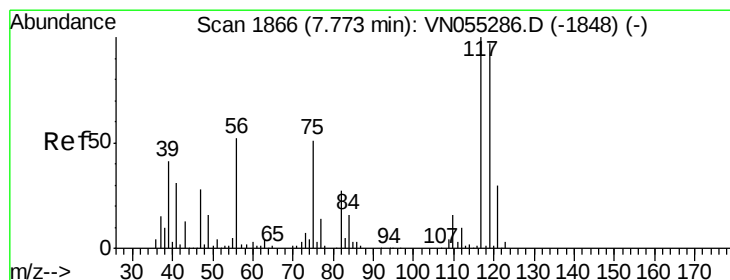
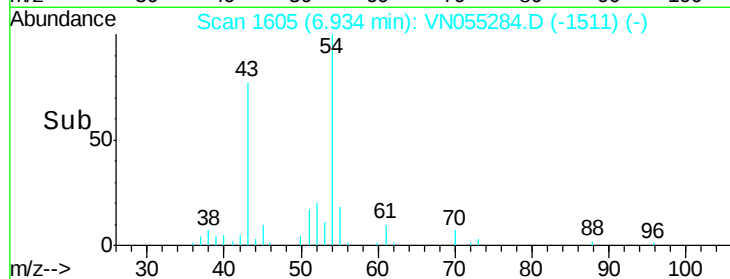
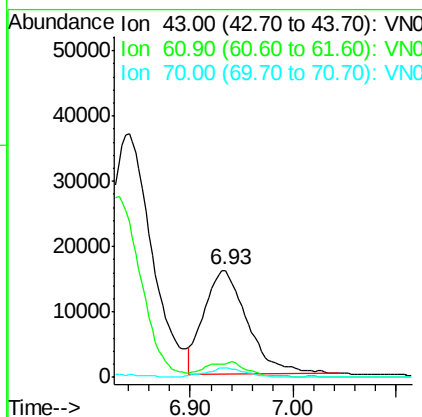
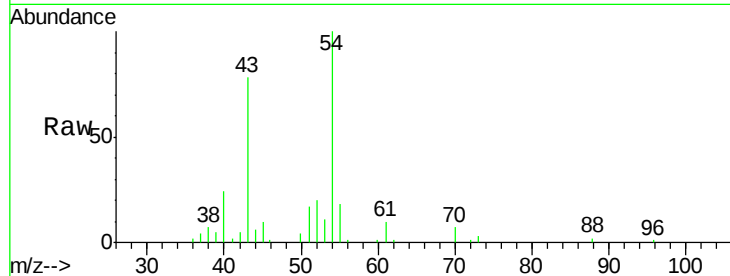
#37
Ethyl Acetate
Concen: 9.344 ug/l
RT: 6.93 min Scan# 1605
Delta R.T. 0.00 min
Lab File: VN055284.D
Acq: 29 Apr 2019 10:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC010

Tot Ion	43	61	70
Resp	46560		
Ratio	100	11.5	8.3
Lower		10.4	6.6
Upper		15.6	10.0

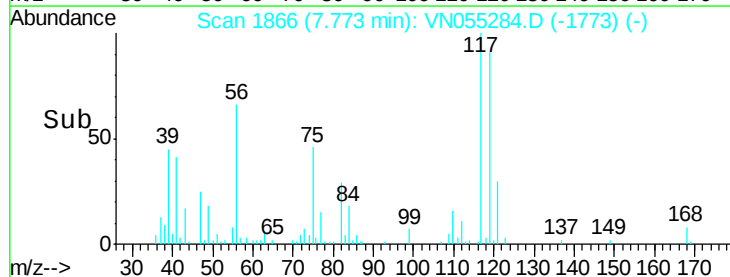
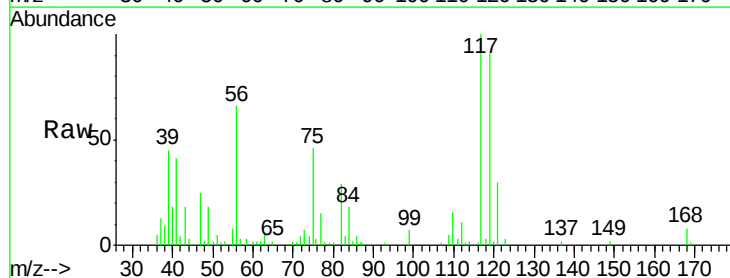
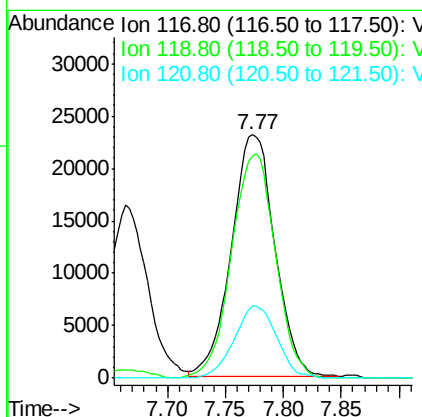
Manual Integrations
APPROVED

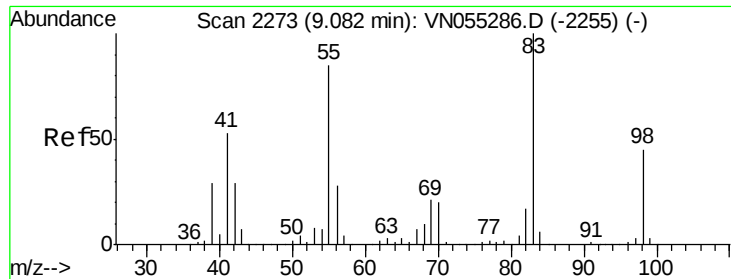
MMDadoda
4/30/2019 11:58:54 AM



#38
Carbon Tetrachloride
Concen: 10.322 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. 0.00 min
Lab File: VN055284.D
Acq: 29 Apr 2019 10:42

Tgt Ion	117	119	121
Resp	60085		
Ratio	100	92.1	29.9
Lower		77.0	23.8
Upper		115.6	35.8





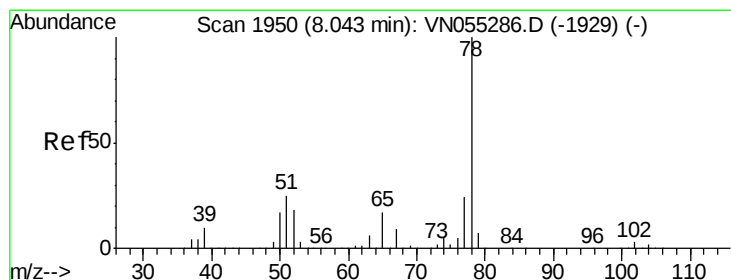
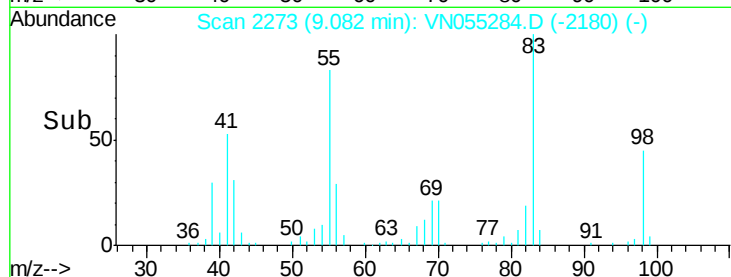
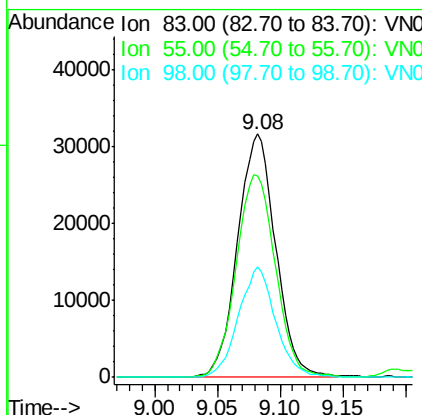
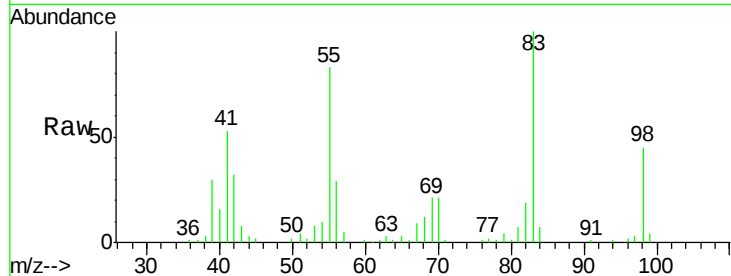
#39
Methvlcvclohexane
Concen: 9.121 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN055284.D
Acq: 29 Apr 2019 10:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Lower	Upper
83	100		
55	82.9	67.8	101.6
98	45.4	36.2	54.4

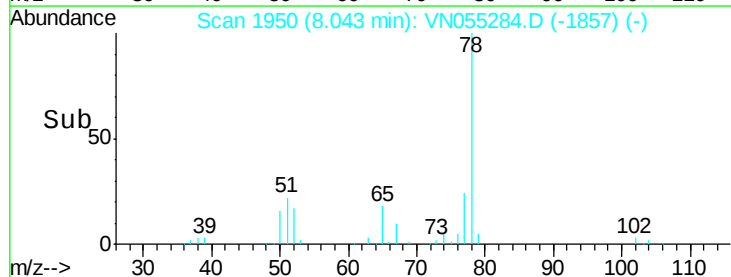
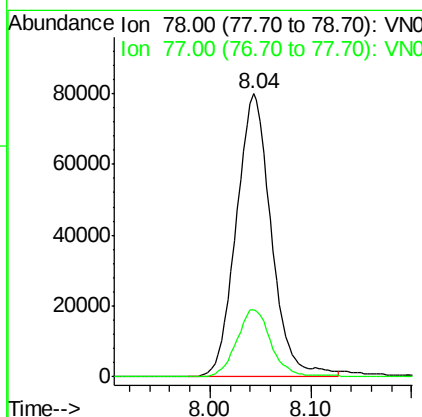
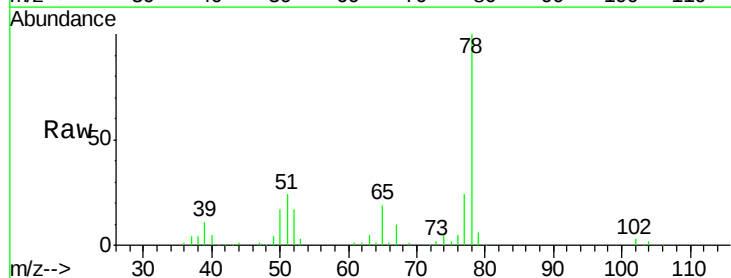
Manual Integrations
APPROVED

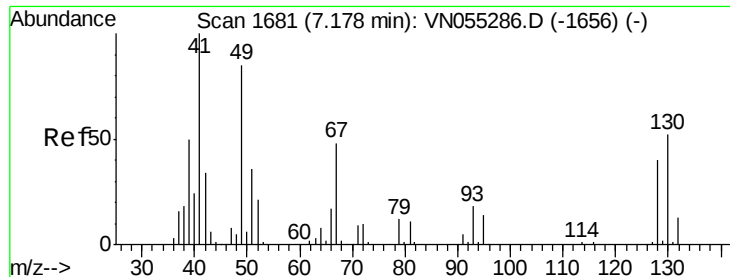
MMDadoda
4/30/2019 11:58:54 AM



#40
Benzene
Concen: 10.028 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN055284.D
Acq: 29 Apr 2019 10:42

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.9	19.0	28.6





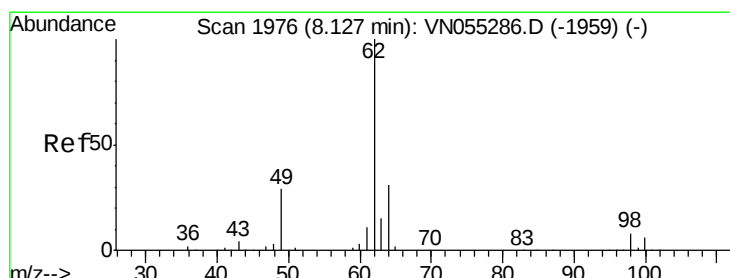
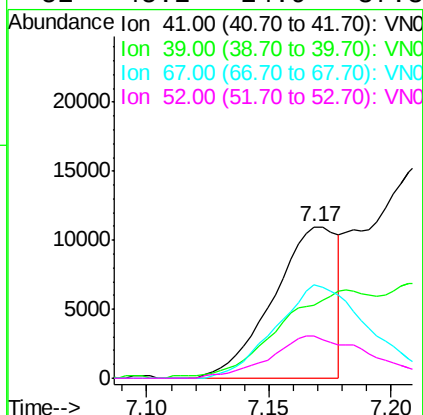
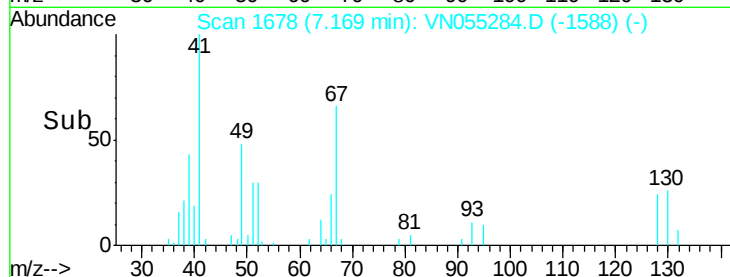
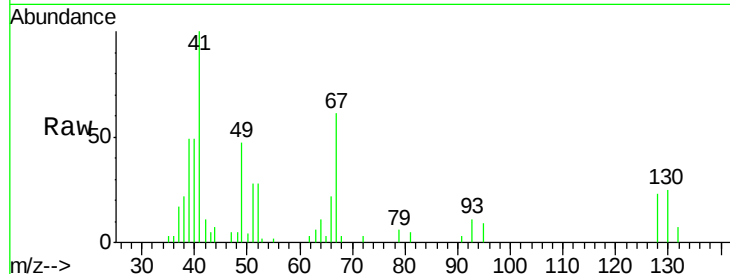
#41
Methacrylonitrile
Concen: 7.640 ug/l
RT: 7.17 min Scan# 1678
Delta R.T. -0.01 min
Lab File: VN055284.D
Acq: 29 Apr 2019 10:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC010

Tot Ion:	41	Resp:	20012
Ion Ratio	Lower	Upper	
41	100		
39	85.3	48.5	72.7#
67	92.0	54.9	82.3#
52	45.2	24.9	37.3#

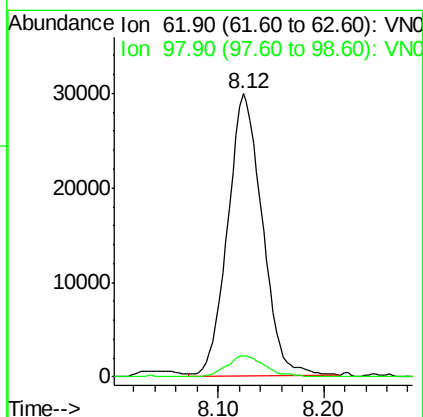
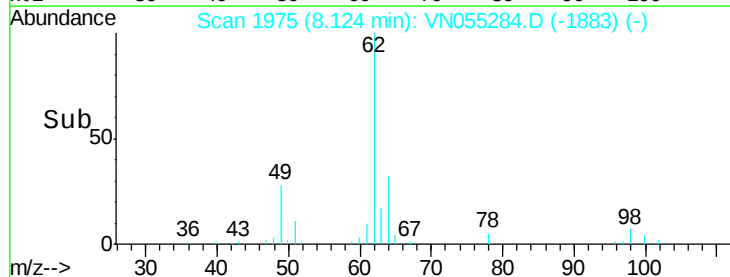
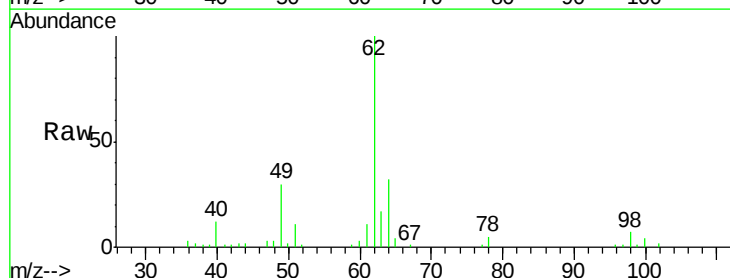
Manual Integrations
APPROVED

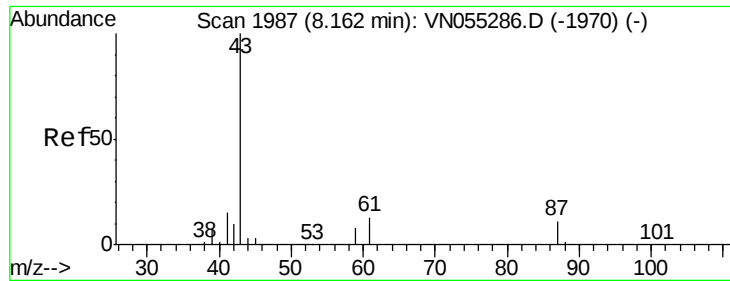
MMDadoda
4/30/2019 11:58:54 AM



#42
1,2-Dichloroethane
Concen: 10.119 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. -0.00 min
Lab File: VN055284.D
Acq: 29 Apr 2019 10:42

Tgt Ion:	62	Resp:	67669
Ion Ratio	Lower	Upper	
62	100		
98	8.3	0.0	16.4





#43

Isopropyl Acetate

Concen: 9.396 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN055284.D

Acq: 29 Apr 2019 10:42

Instrument :

MSVOA_N

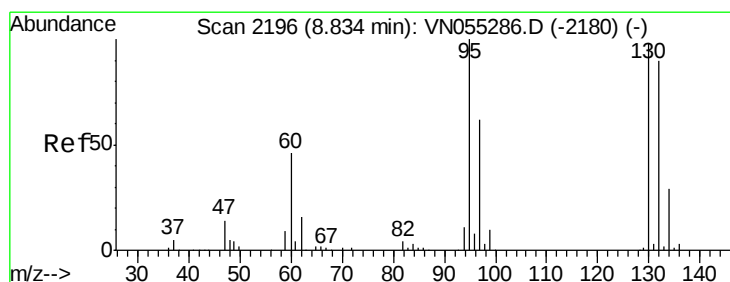
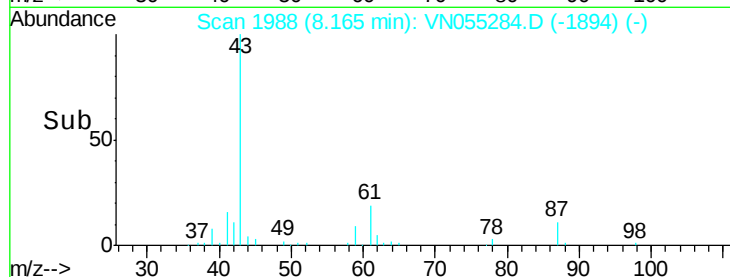
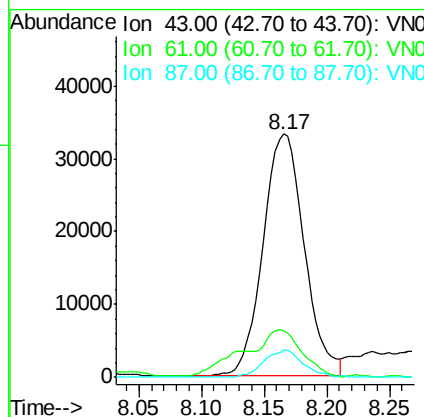
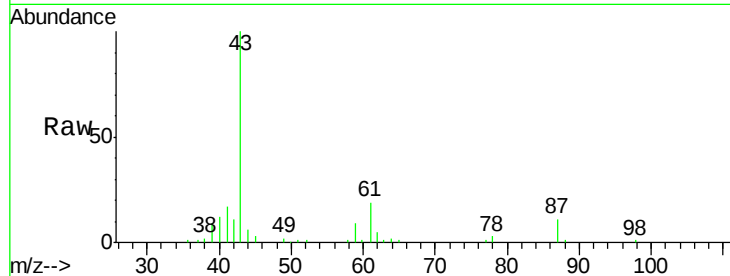
ClientSampleId :

VSTDIC010

Tot Ion:	43	Resp:	76207
Ion	Ratio	Lower	Upper
43	100		
61	27.9	20.8	31.2
87	10.8	8.5	12.7

Manual Integrations
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#44

Trichloroethene

Concen: 9.971 ug/l

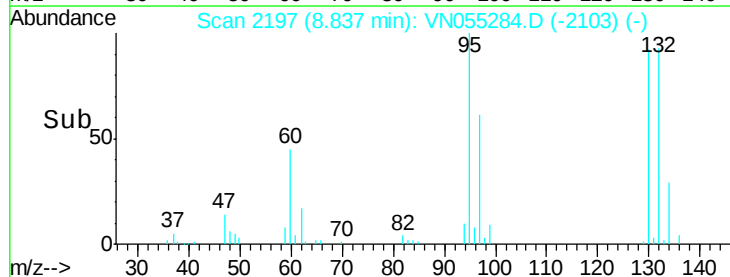
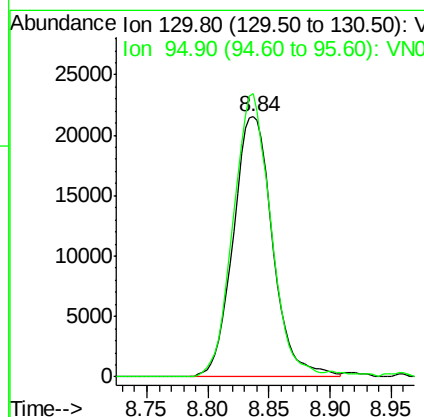
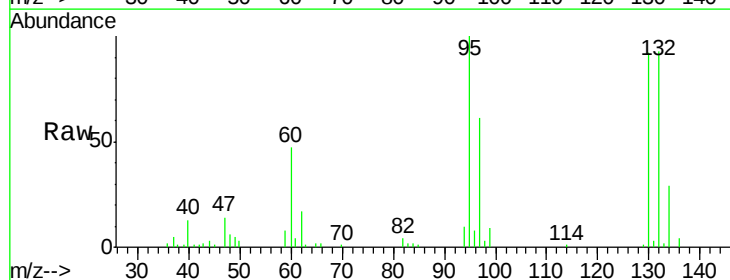
RT: 8.84 min Scan# 2197

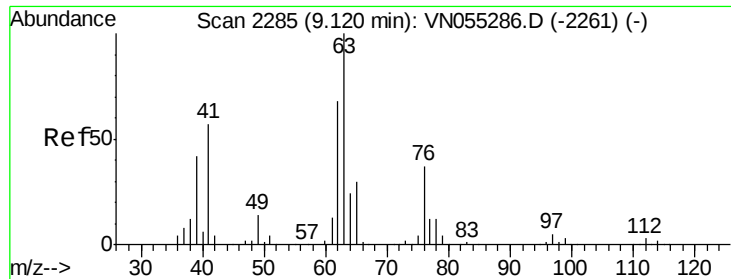
Delta R.T. 0.00 min

Lab File: VN055284.D

Acq: 29 Apr 2019 10:42

Tgt Ion:	130	Resp:	48180
Ion	Ratio	Lower	Upper
130	100		
95	108.8	0.0	203.4





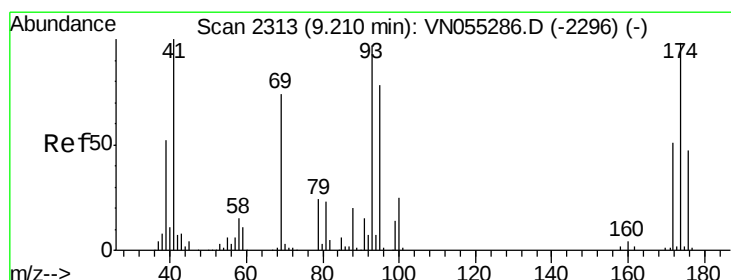
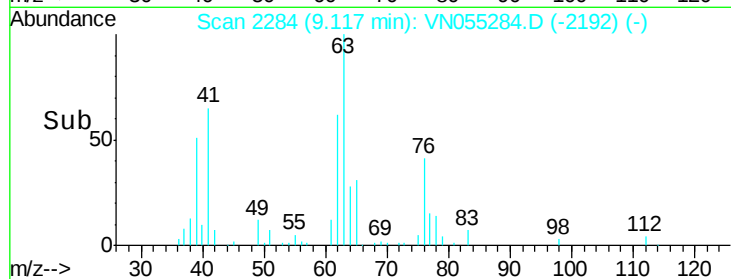
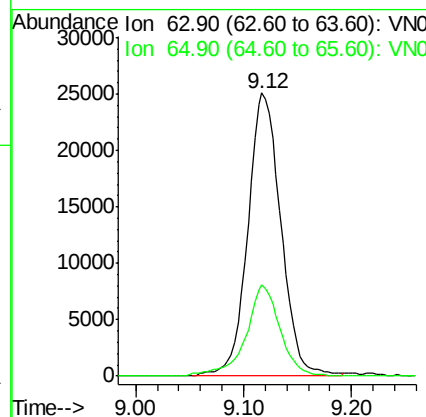
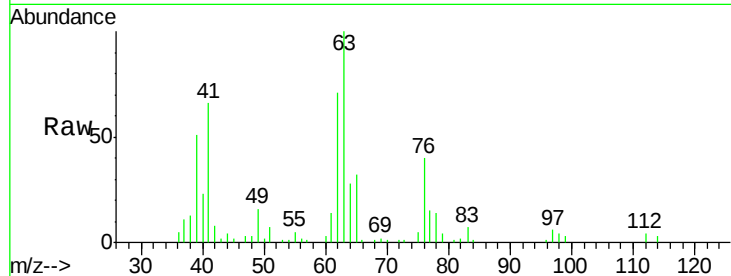
#45
 1,2-Dichloropropane
 Concen: 9.871 ug/l
 RT: 9.12 min Scan# 2284
 Delta R.T. -0.00 min
 Lab File: VN055284.D
 Acq: 29 Apr 2019 10:42

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC010

Tot Ion: 63 Resp: 53534
 Ion Ratio Lower Upper
 63 100
 65 32.1 23.9 35.9

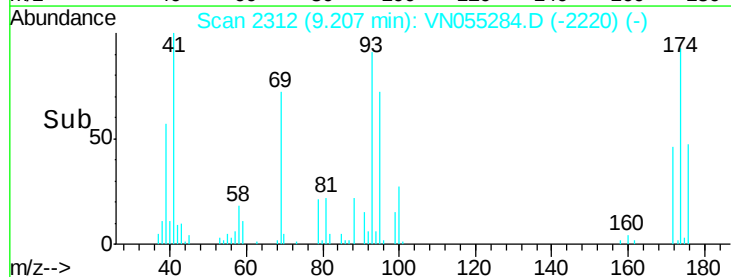
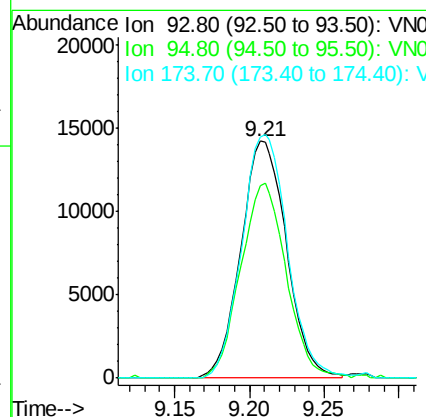
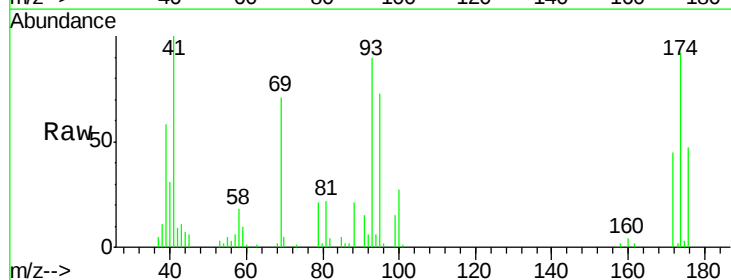
Manual Integrations
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 4/30/2019 11:58:54 AM



#46
 Dibromomethane
 Concen: 9.818 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. -0.00 min
 Lab File: VN055284.D
 Acq: 29 Apr 2019 10:42

Tgt Ion: 93 Resp: 30319
 Ion Ratio Lower Upper
 93 100
 95 81.6 65.7 98.5
 174 102.7 81.5 122.3





#47

Bromodichloromethane

Concen: 10.188 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN055284.D

Acq: 29 Apr 2019 10:42

Instrument :

MSVOA_N

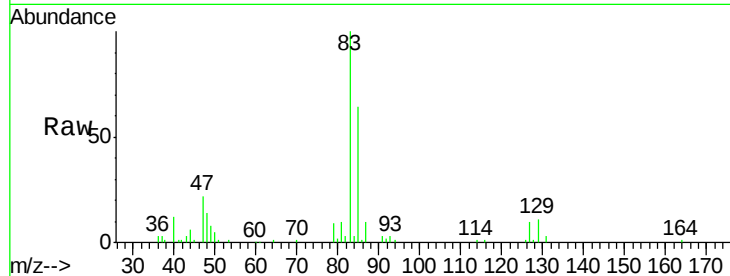
ClientSampleId :

VSTDIC010

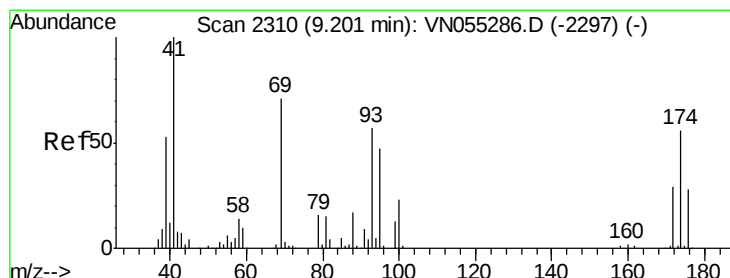
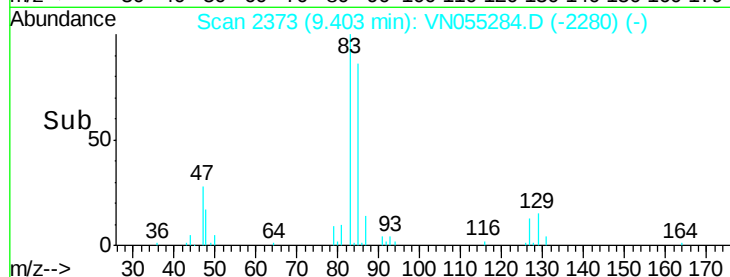
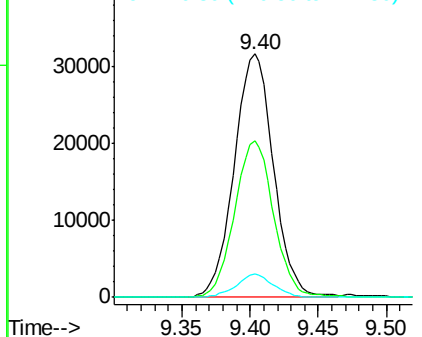
Tot Ion:	83	Resp:	63269
Ion	Ratio	Lower	Upper
83	100		
85	64.2	50.1	75.1
127	9.9	6.7	10.1

Manual Integrations
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Abundance Ion 82.90 (82.60 to 83.60): VNO
Ion 84.90 (84.60 to 85.60): VNO
Ion 126.80 (126.50 to 127.50): VNO



#48

Methyl methacrylate

Concen: 8.652 ug/l

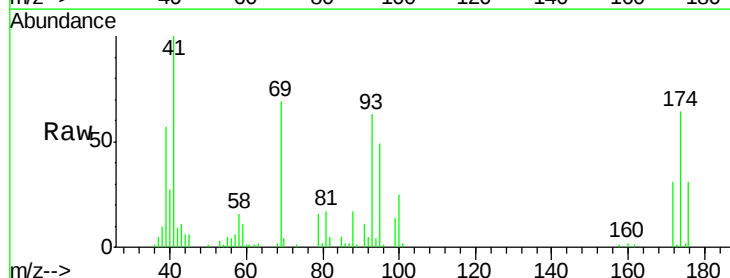
RT: 9.20 min Scan# 2310

Delta R.T. 0.00 min

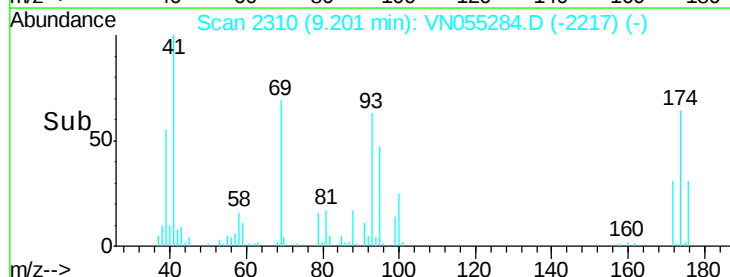
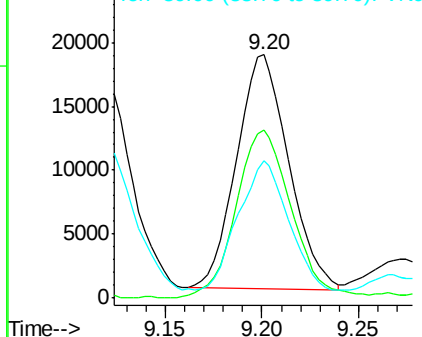
Lab File: VN055284.D

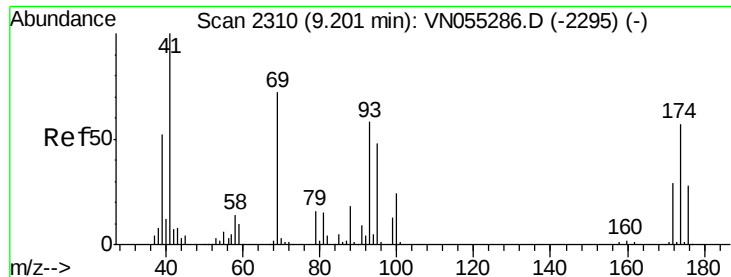
Acq: 29 Apr 2019 10:42

Tgt Ion:	41	Resp:	34229
Ion	Ratio	Lower	Upper
41	100		
69	76.5	58.6	87.8
39	55.1	43.8	65.6



Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 39.00 (38.70 to 39.70): VNO





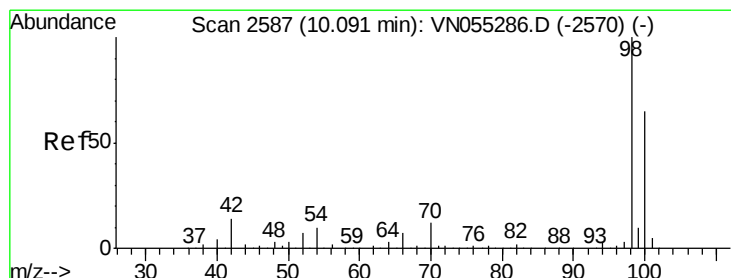
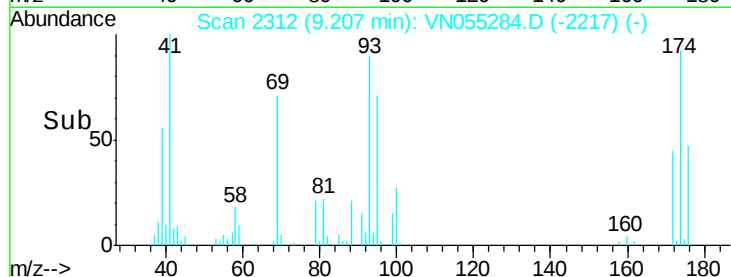
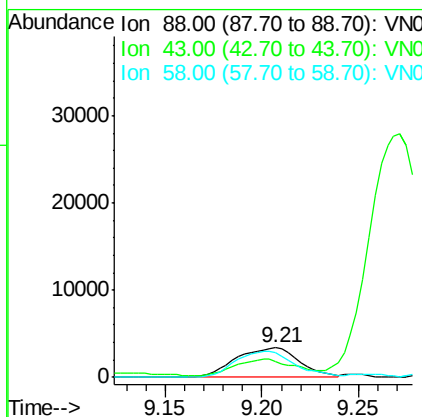
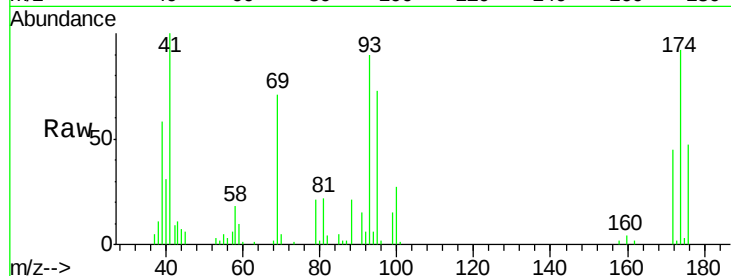
#49
1,4-Dioxane
Concen: 173.012 ug/l
RT: 9.21 min Scan# 2312
Delta R.T. 0.01 min
Lab File: VN055284.D
Acq: 29 Apr 2019 10:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Lower	Upper
88	100		
43	50.7	33.3	49.9#
58	83.2	62.7	94.1

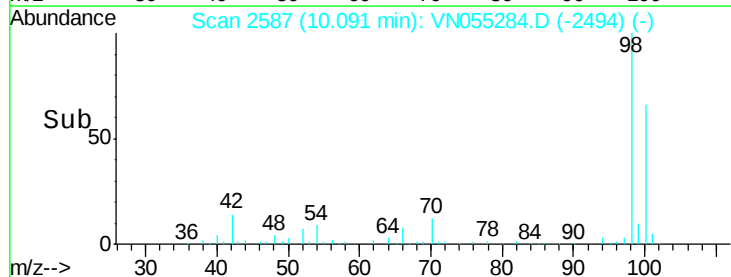
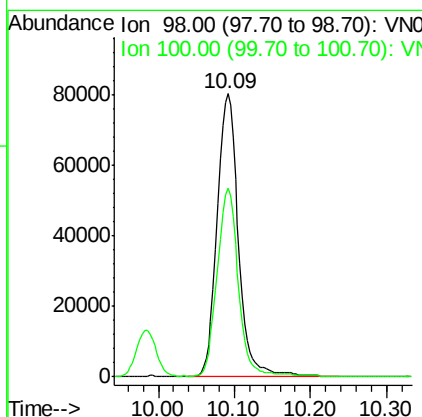
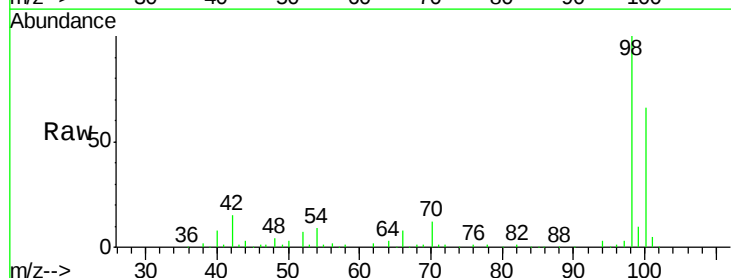
Manual Integrations
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#50
Toluene-d8
Concen: 9.369 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN055284.D
Acq: 29 Apr 2019 10:42

Tgt Ion	Ratio	Lower	Upper
98	100		
100	65.2	51.7	77.5





#51

4-Methyl-2-Pentanone

Concen: 47.283 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN055284.D

Acq: 29 Apr 2019 10:42

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tot Ion: 43 Resp: 220614

Ion Ratio Lower Upper

43 100

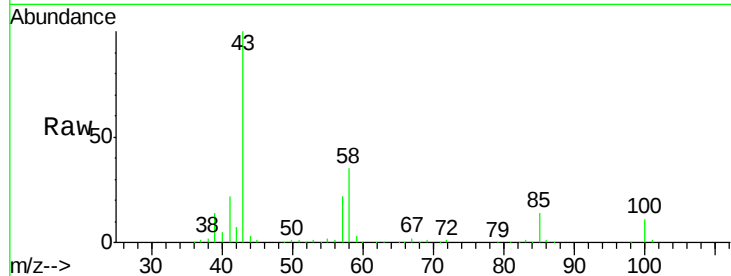
58 34.7 28.5 42.7

Manual Integrations

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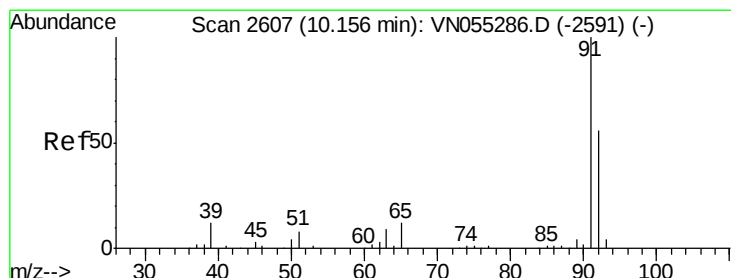
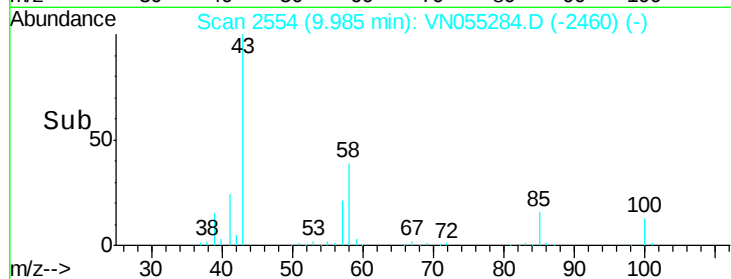
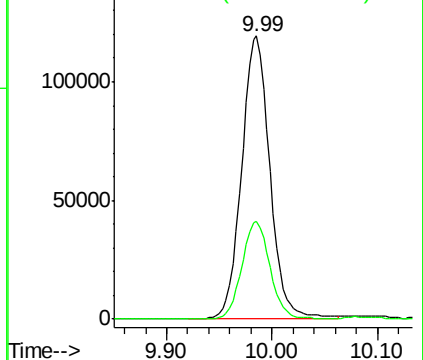
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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 9.924 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN055284.D

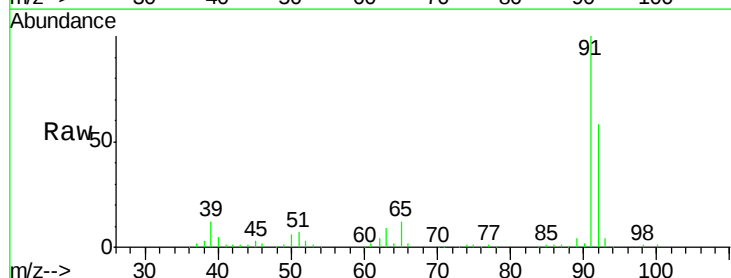
Acq: 29 Apr 2019 10:42

Tgt Ion: 92 Resp: 110922

Ion Ratio Lower Upper

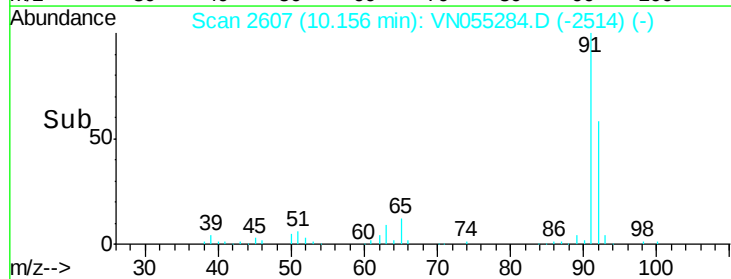
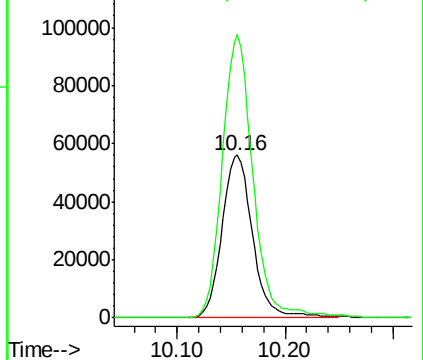
92 100

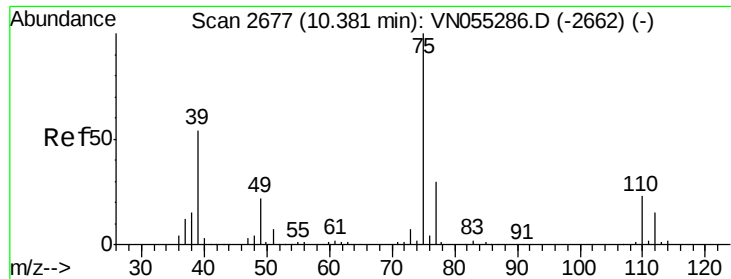
91 173.3 140.1 210.1



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





#53

t-1,3-Dichloropropene

Concen: 9.266 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. 0.00 min

Lab File: VN055284.D

Acq: 29 Apr 2019 10:42

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tot Ion: 75 Resp: 52788

Ion Ratio Lower Upper

75 100

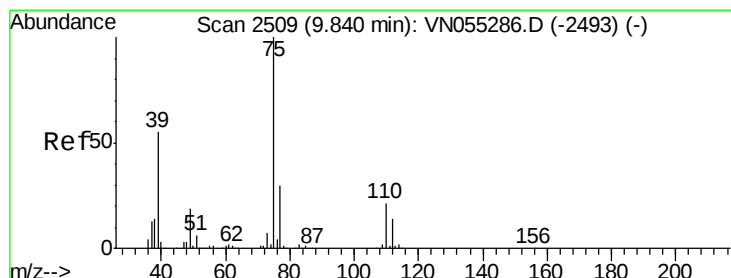
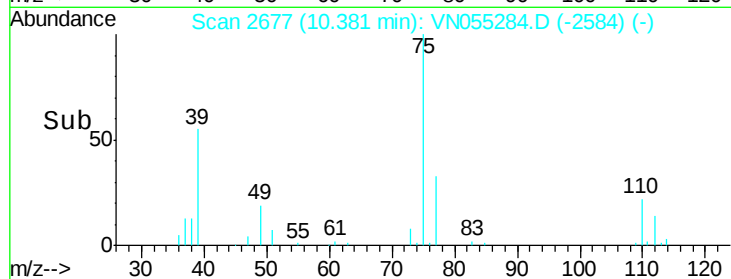
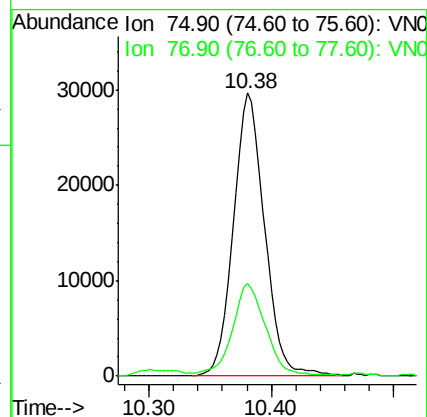
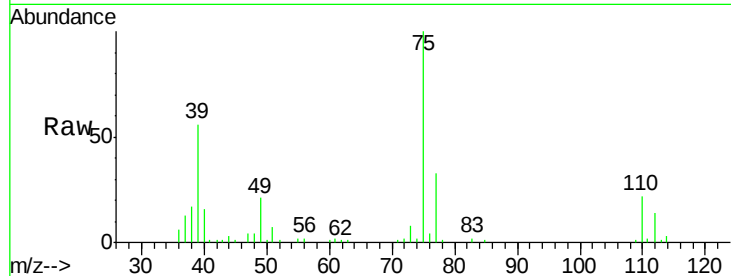
77 32.1 24.4 36.6

Manual Integrations

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#54

cis-1,3-Dichloropropene

Concen: 9.575 ug/l

RT: 9.84 min Scan# 2508

Delta R.T. -0.00 min

Lab File: VN055284.D

Acq: 29 Apr 2019 10:42

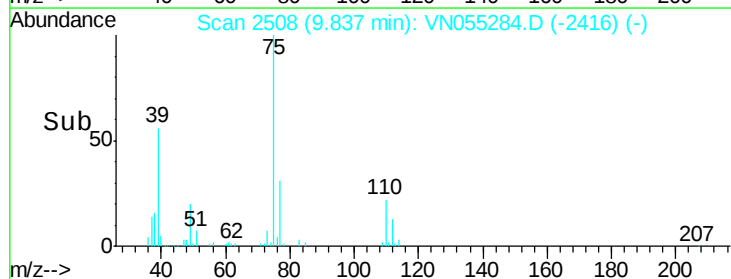
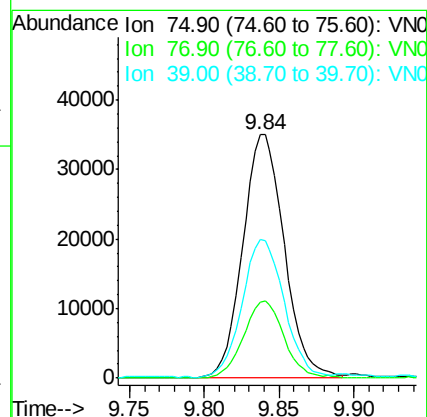
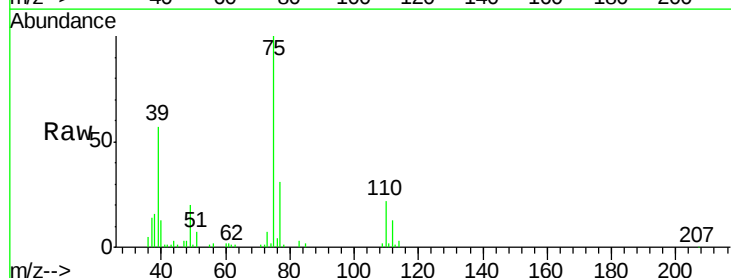
Tgt Ion: 75 Resp: 67691

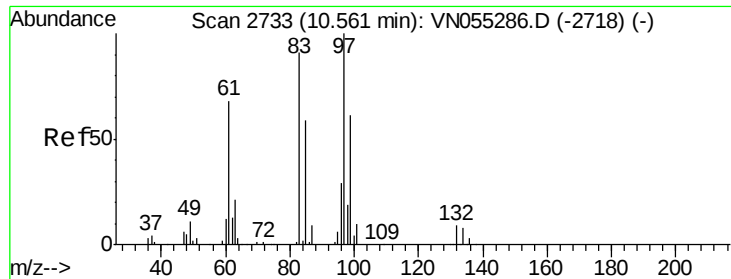
Ion Ratio Lower Upper

75 100

77 31.3 24.2 36.2

39 56.9 44.2 66.2





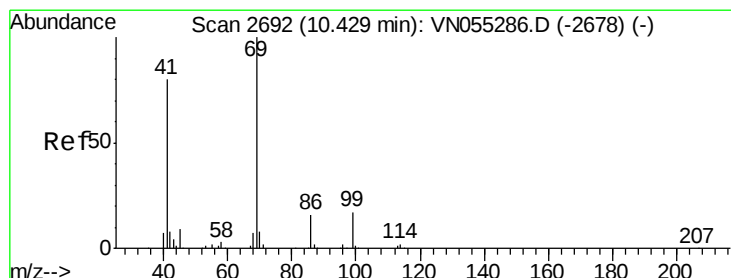
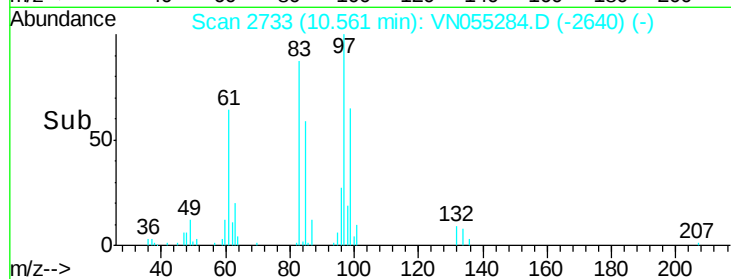
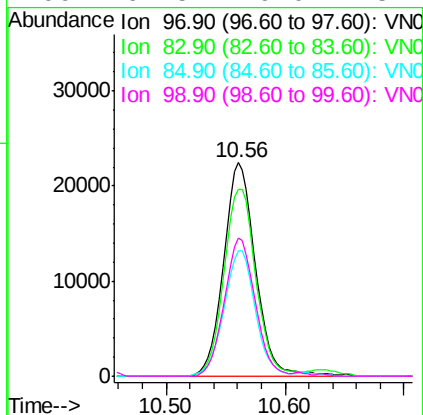
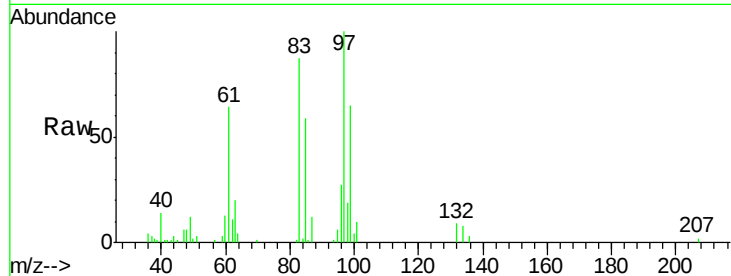
#55
 1,1,2-Trichloroethane
 Concen: 10.029 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. 0.00 min
 Lab File: VN055284.D
 Acq: 29 Apr 2019 10:42

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC010

Tot Ion:	97	Resp:	41567
Ion	Ratio	Lower	Upper
97	100		
83	87.4	72.8	109.2
85	58.5	47.0	70.6
99	64.5	49.0	73.4

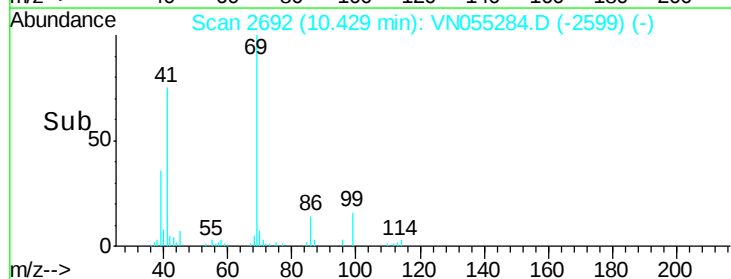
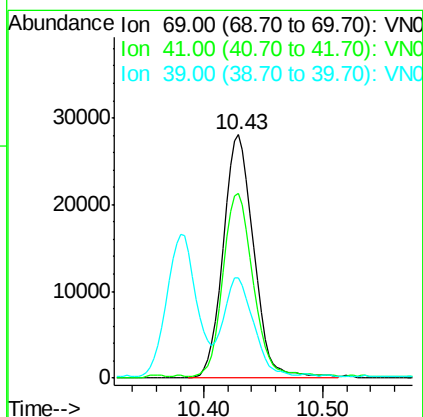
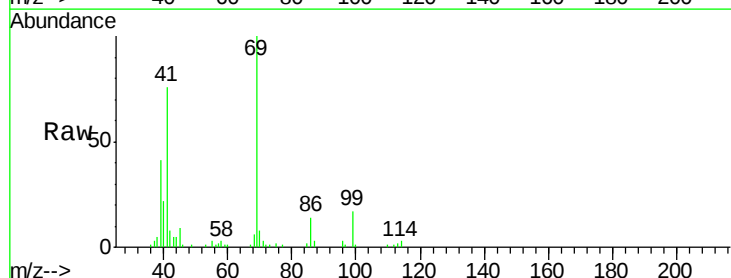
Manual Integrations
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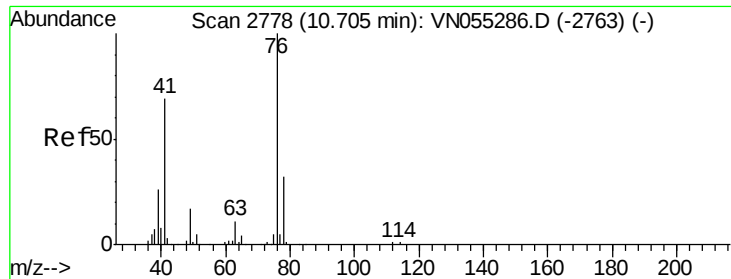
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#56
 Ethyl methacrylate
 Concen: 9.722 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN055284.D
 Acq: 29 Apr 2019 10:42

Tgt Ion:	69	Resp:	50050
Ion	Ratio	Lower	Upper
69	100		
41	74.4	62.7	94.1
39	39.1	32.0	48.0





#57

1,3-Dichloropropane

Concen: 9.883 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN055284.D

Acq: 29 Apr 2019 10:42

Instrument :

MSVOA_N

ClientSampled :

VSTDIC010

Tot Ion: 76 Resp: 71181

Ion Ratio Lower Upper

76 100

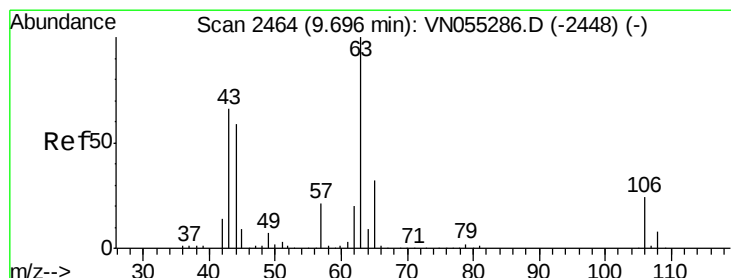
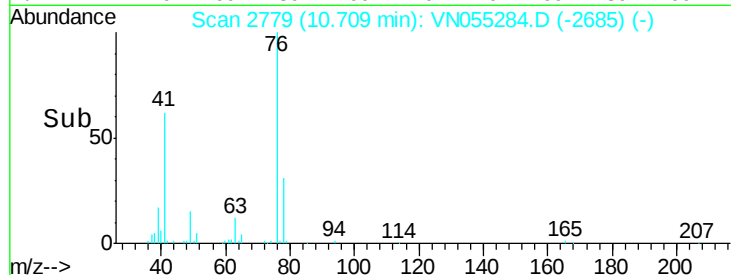
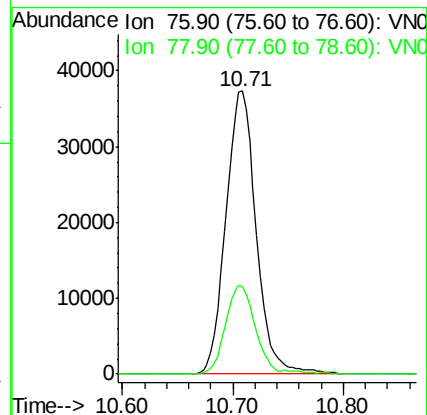
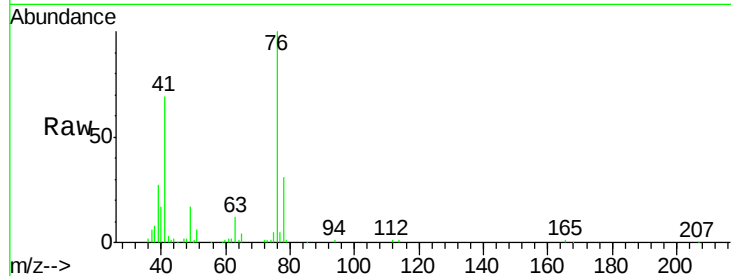
78 30.4 25.6 38.4

Manual Integrations

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#58

2-Chloroethyl Vinyl ether

Concen: 34.180 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN055284.D

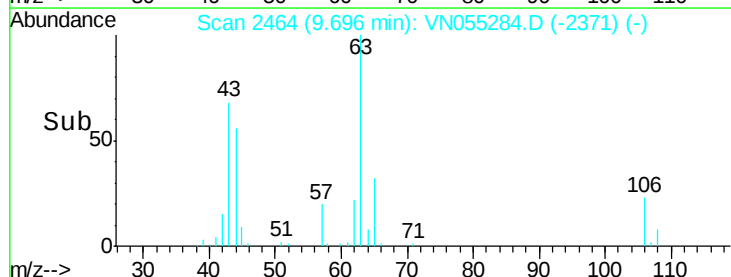
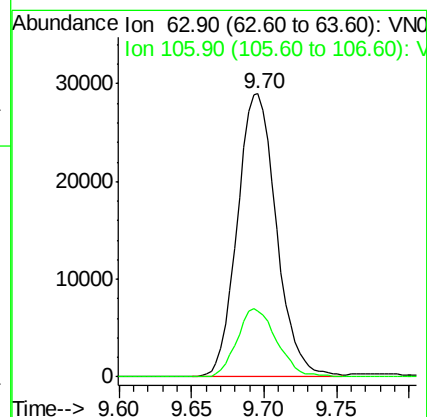
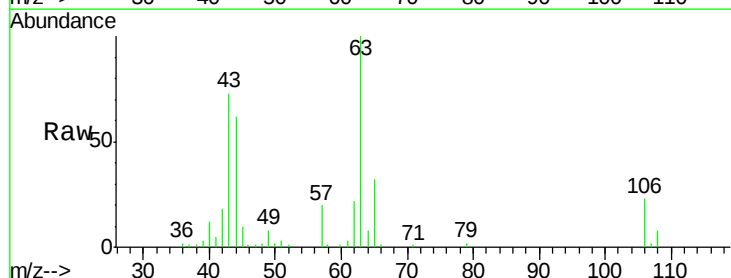
Acq: 29 Apr 2019 10:42

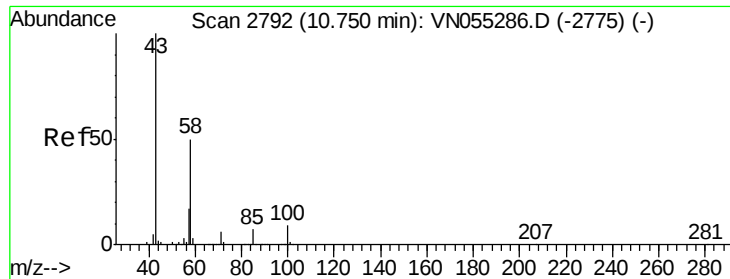
Tgt Ion: 63 Resp: 54307

Ion Ratio Lower Upper

63 100

106 24.4 19.0 28.4





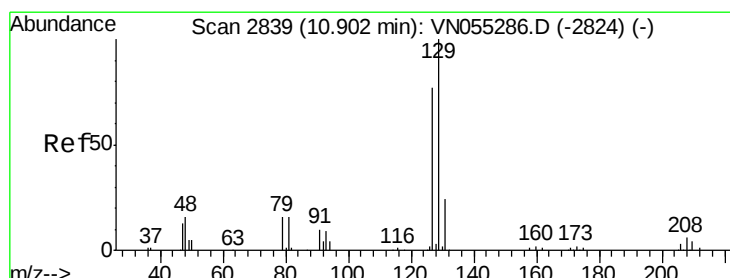
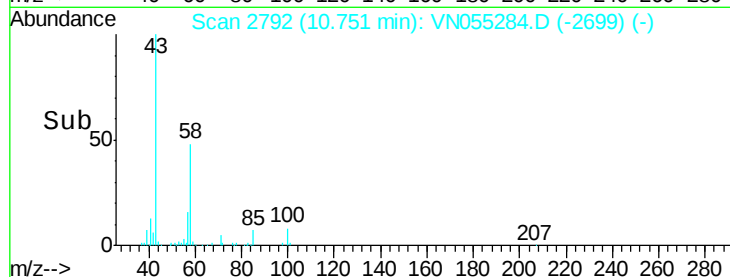
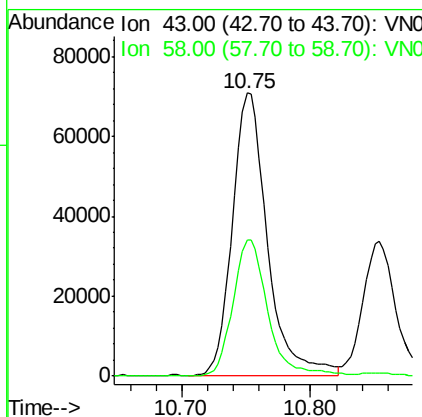
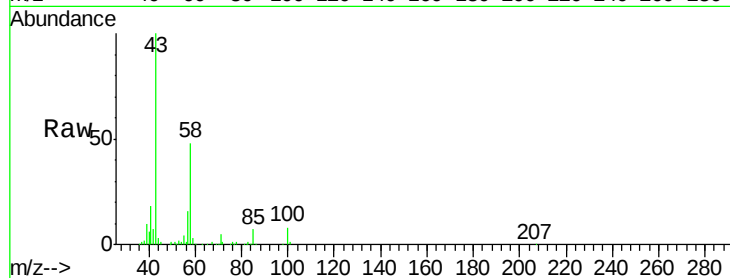
#59
2-Hexanone
Concen: 45.629 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN055284.D
Acq: 29 Apr 2019 10:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC010

Tot Ion	43	Resp	132893
Ion Ratio	43	100	
Lower	58	48.3	24.9
Upper			74.6

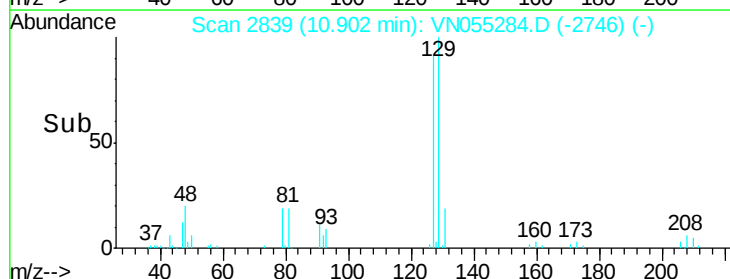
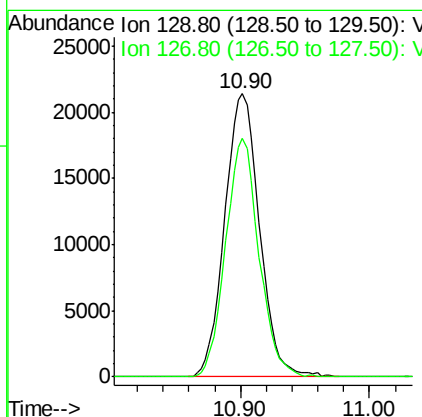
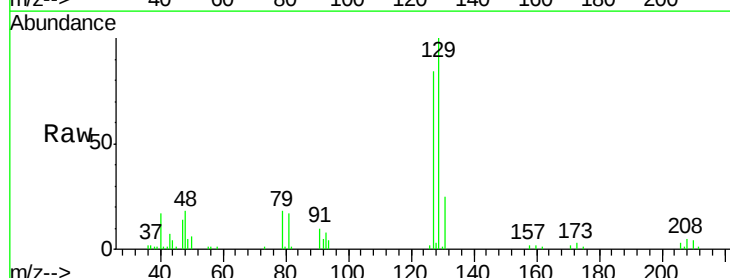
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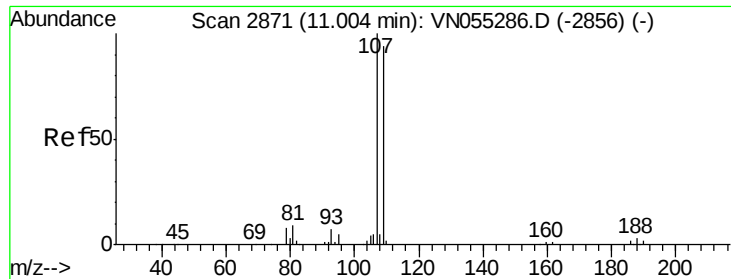
MMDadoda
4/30/2019 11:58:54 AM



#60
Dibromochloromethane
Concen: 9.385 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN055284.D
Acq: 29 Apr 2019 10:42

Tgt Ion	129	Resp	40119
Ion Ratio	129	100	
Lower	127	80.5	38.1
Upper			114.5





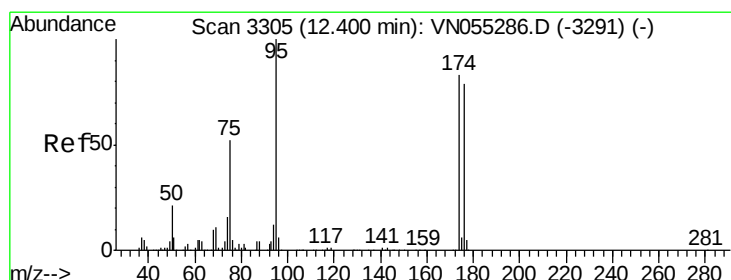
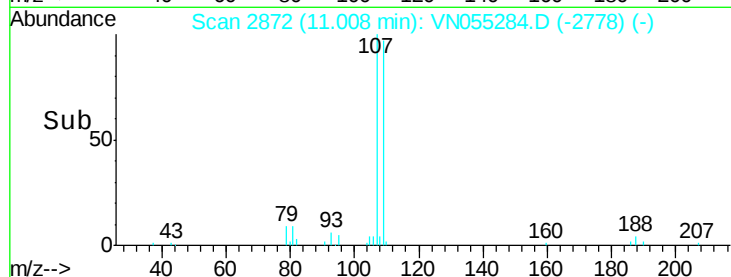
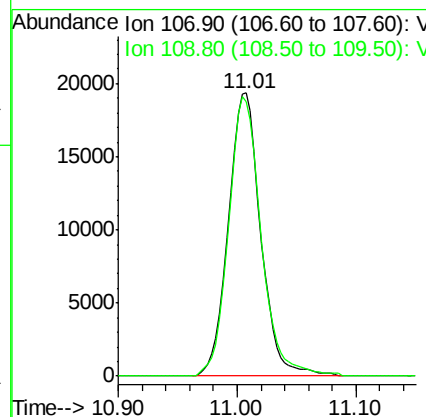
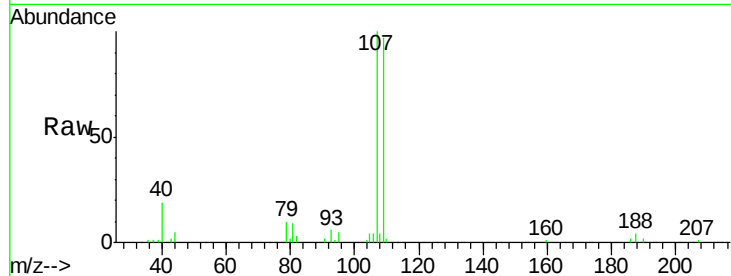
#61
 1,2-Dibromoethane
 Concen: 9.409 ug/l
 RT: 11.01 min Scan# 2872
 Delta R.T. 0.00 min
 Lab File: VN055284.D
 Acq: 29 Apr 2019 10:42

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC010

Tot Ion: 107 Resp: 36508
 Ion Ratio Lower Upper
 107 100
 109 99.5 75.0 112.6

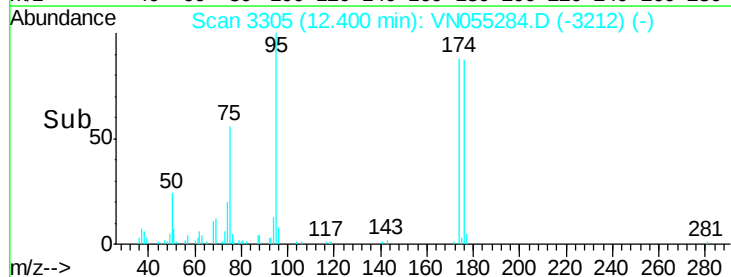
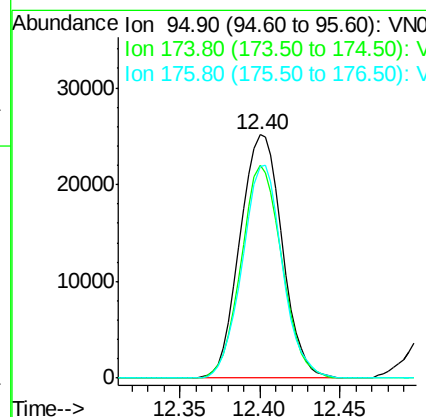
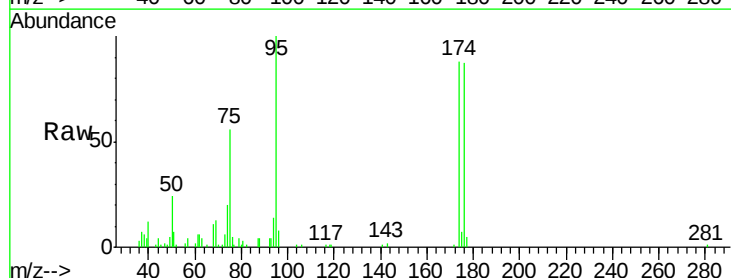
Manual Integrations
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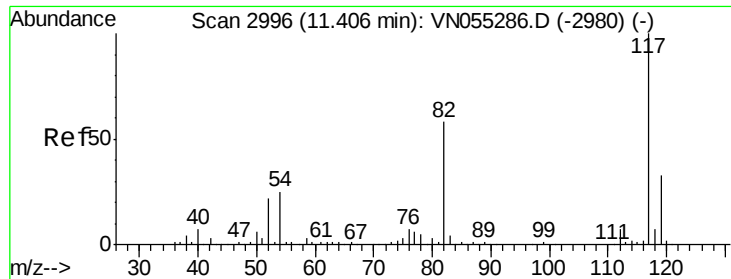
MMDadoda
 4/30/2019 11:58:54 AM



#62
 4-Bromofluorobenzene
 Concen: 8.557 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.00 min
 Lab File: VN055284.D
 Acq: 29 Apr 2019 10:42

Tgt Ion: 95 Resp: 45316
 Ion Ratio Lower Upper
 95 100
 174 84.2 0.0 166.6
 176 82.9 0.0 157.8





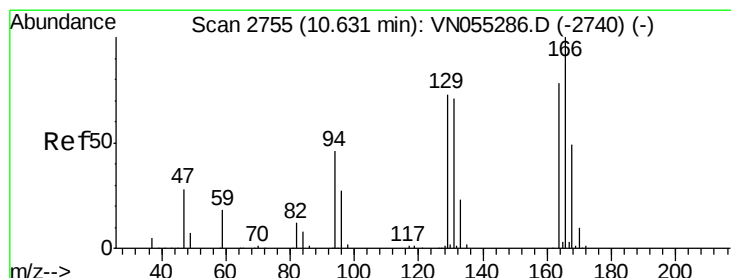
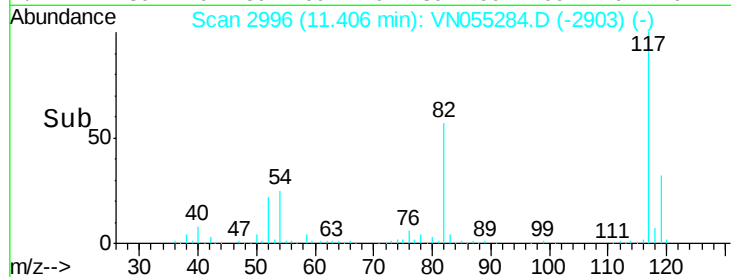
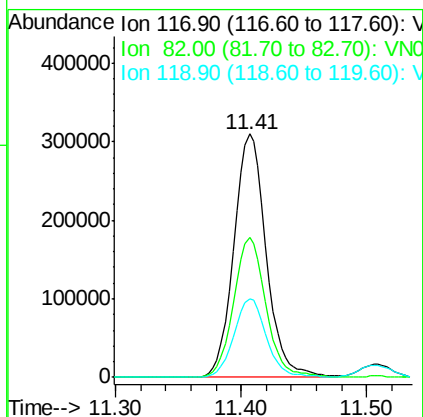
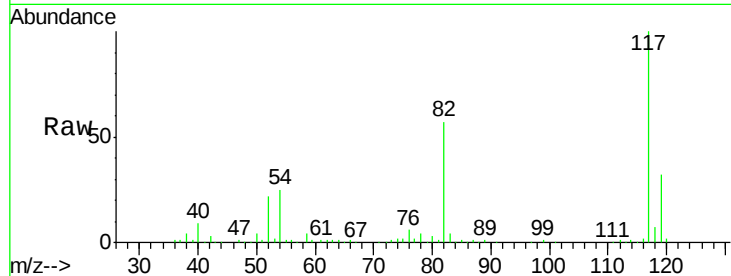
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055284.D
Acq: 29 Apr 2019 10:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Lower	Upper
117	100		
82	57.3	46.2	69.4
119	32.3	26.6	40.0

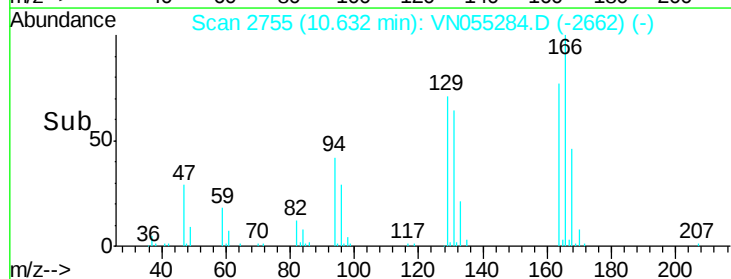
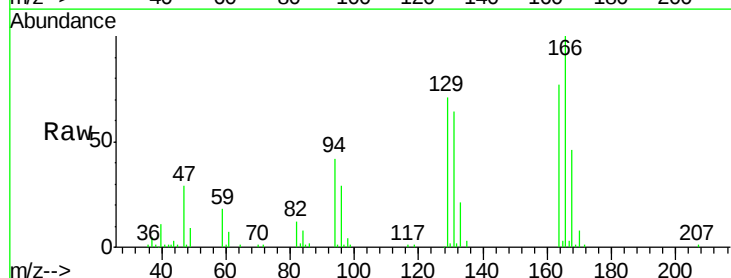
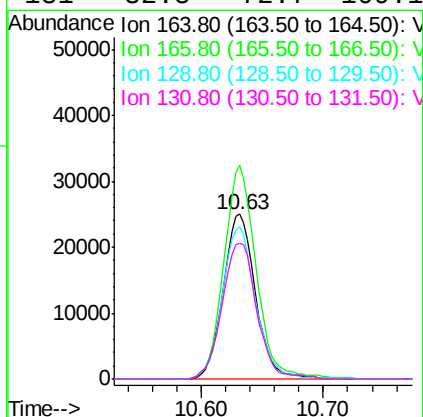
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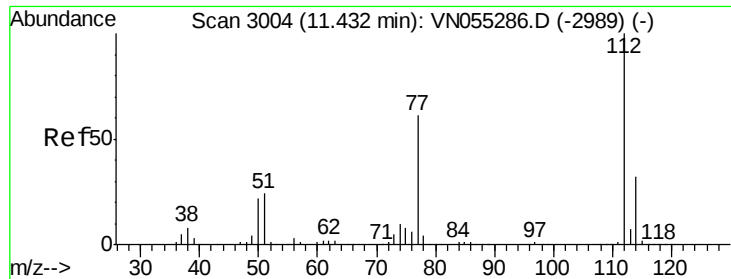
MMDadoda
4/30/2019 11:58:54 AM



#64
Tetrachloroethene
Concen: 10.395 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN055284.D
Acq: 29 Apr 2019 10:42

Tgt Ion	Ratio	Lower	Upper
164	100		
166	129.6	102.3	153.5
129	92.1	75.0	112.6
131	82.5	72.7	109.1





#65

Chlorobenzene

Concen: 9.920 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. 0.00 min

Lab File: VN055284.D

Acq: 29 Apr 2019 10:42

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tot Ion:112 Resp: 111248

Ion Ratio Lower Upper

112 100

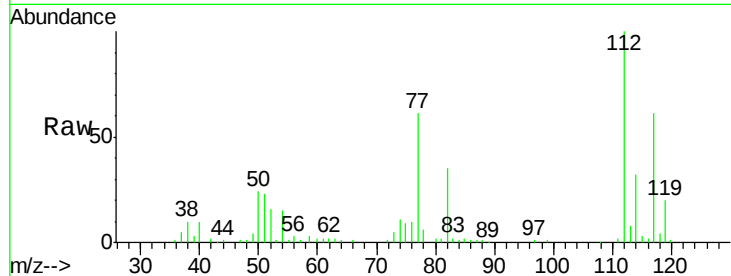
114 32.0 25.3 37.9

Manual Integrations

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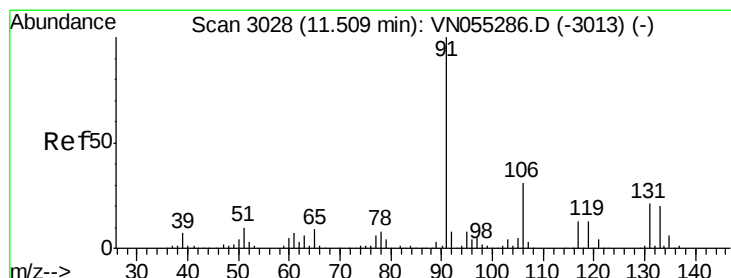
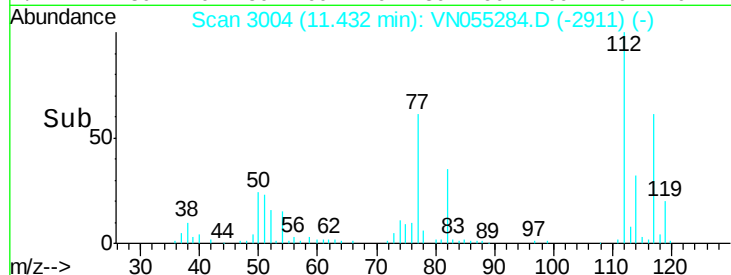
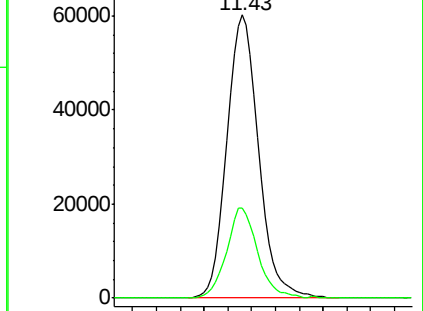
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Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 10.284 ug/l

RT: 11.51 min Scan# 3027

Delta R.T. -0.00 min

Lab File: VN055284.D

Acq: 29 Apr 2019 10:42

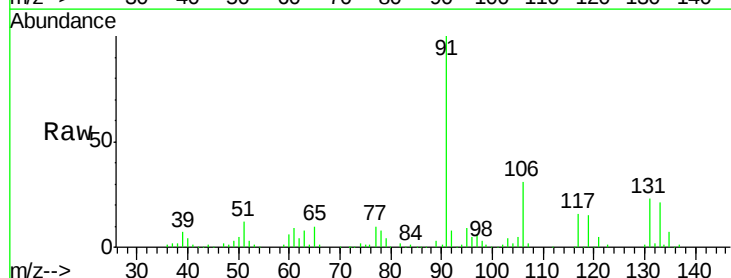
Tgt Ion:131 Resp: 42942

Ion Ratio Lower Upper

131 100

133 94.9 47.5 142.6

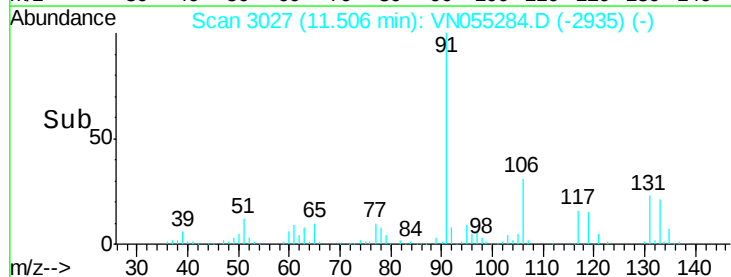
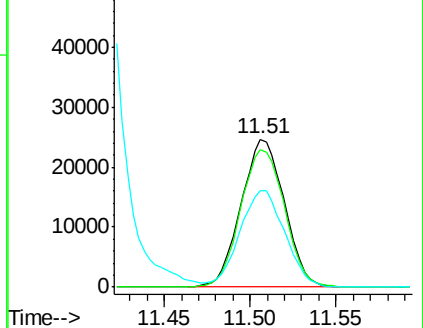
119 68.0 32.7 98.1

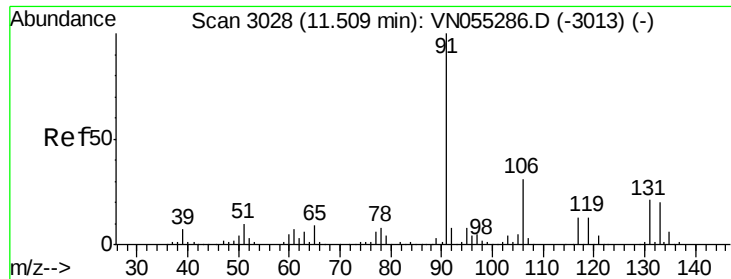


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





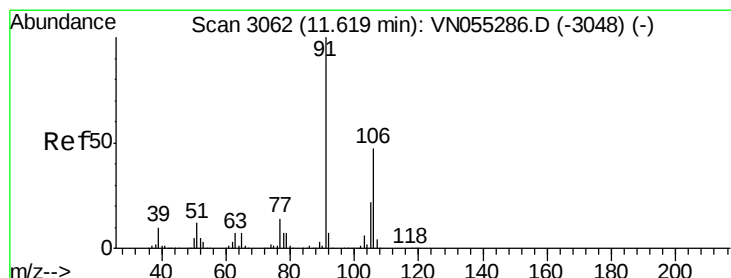
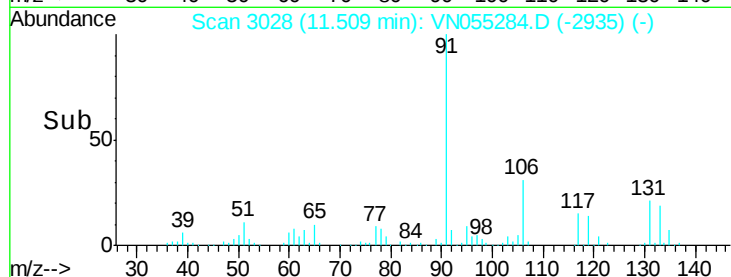
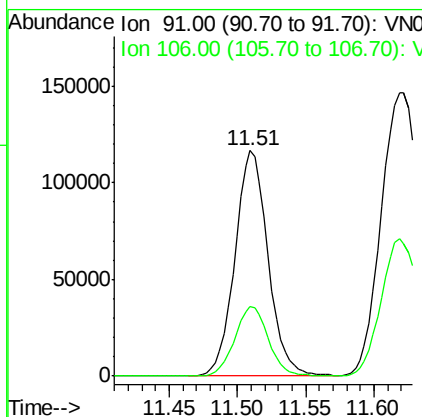
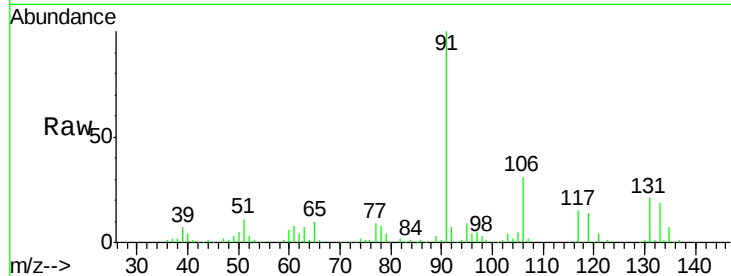
#67
Ethyl Benzene
Concen: 9.827 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN055284.D
Acq: 29 Apr 2019 10:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC010

Tot Ion: 91 Resp: 196455
Ion Ratio Lower Upper
91 100
106 30.9 24.6 36.8

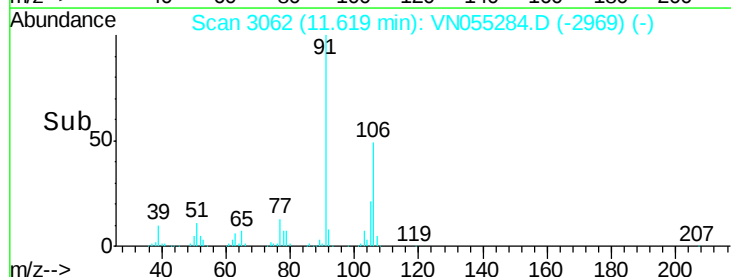
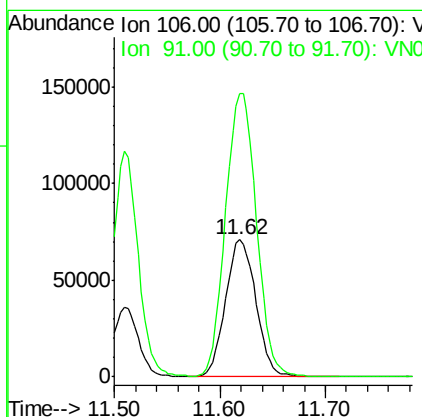
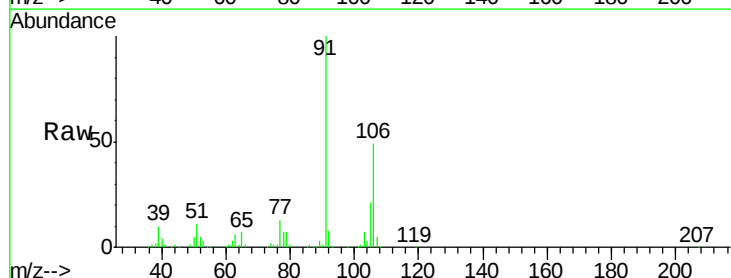
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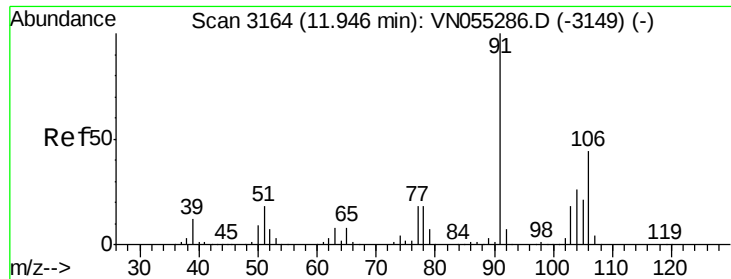
MMDadoda
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#68
m/p-Xylenes
Concen: 19.868 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. 0.00 min
Lab File: VN055284.D
Acq: 29 Apr 2019 10:42

Tgt Ion: 106 Resp: 141987
Ion Ratio Lower Upper
106 100
91 209.0 169.5 254.3





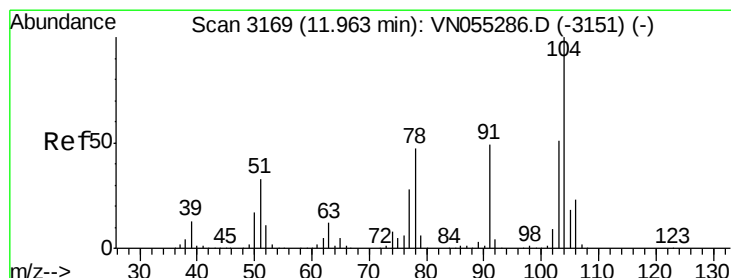
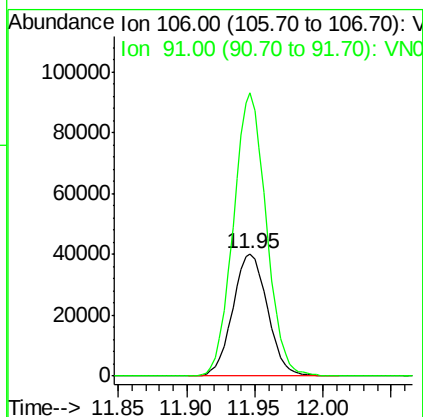
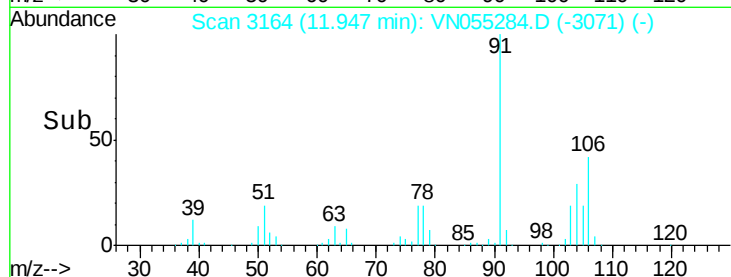
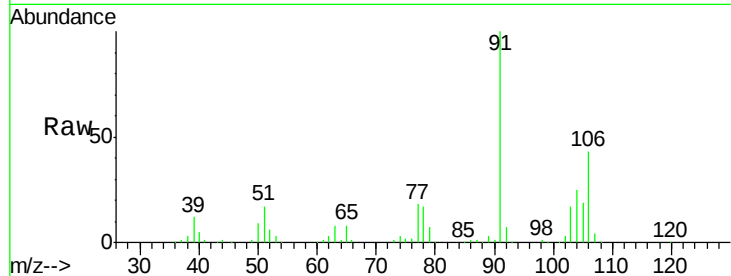
#69
o-Xylene
Concen: 10.023 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN055284.D
Acq: 29 Apr 2019 10:42

Instrument :
MSVOA_N
ClientSampled :
VSTDIC010

Tot Ion:106 Resp: 71156
Ion Ratio Lower Upper
106 100
91 218.7 111.5 334.5

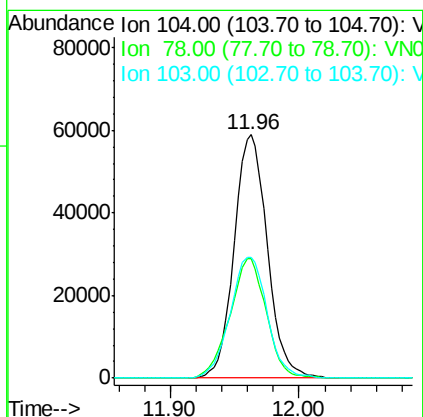
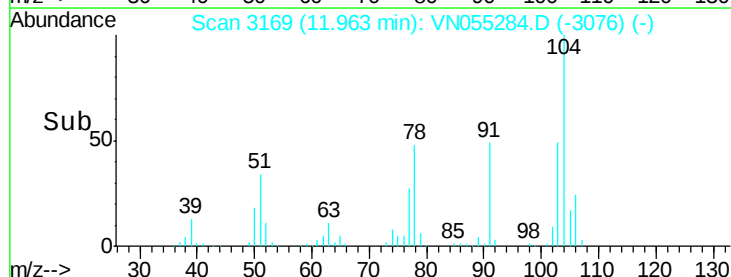
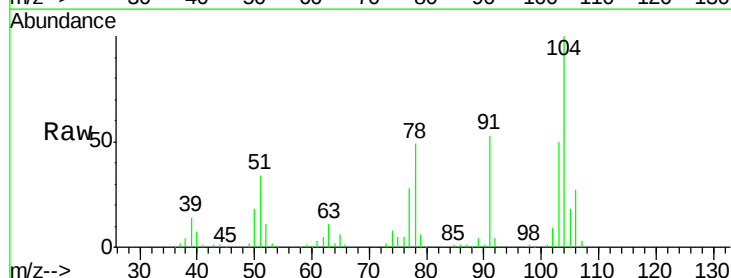
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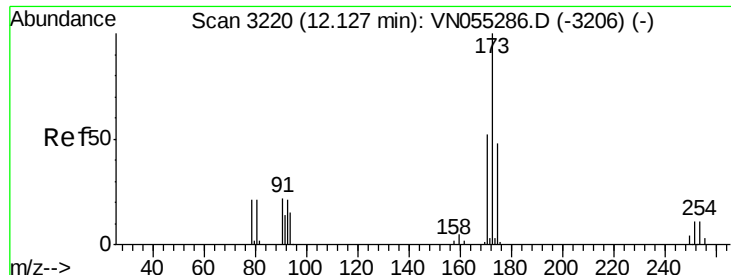
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#70
Styrene
Concen: 9.607 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN055284.D
Acq: 29 Apr 2019 10:42

Tgt Ion:104 Resp: 105484
Ion Ratio Lower Upper
104 100
78 53.6 42.2 63.2
103 55.5 44.6 67.0





#71

Bromoform

Concen: 9.148 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN055284.D

Acq: 29 Apr 2019 10:42

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tot Ion:173 Resp: 22584

Ion Ratio Lower Upper

173 100

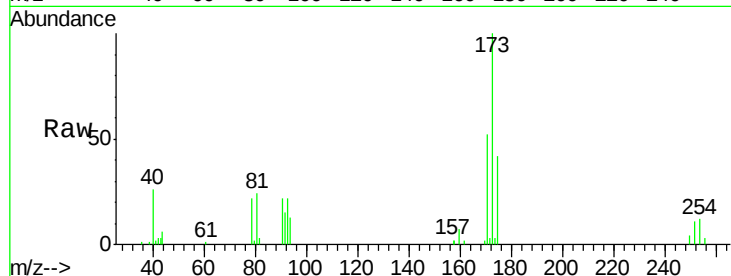
175 47.2 23.6 71.0

254 0.0 0.0 0.0

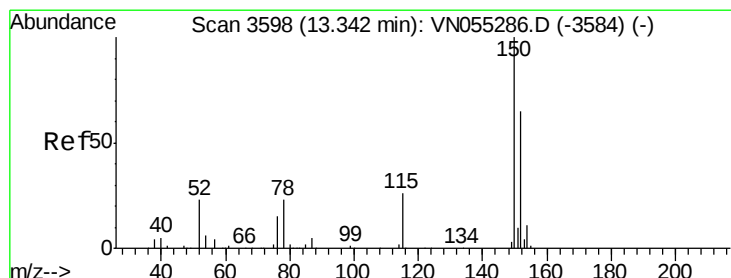
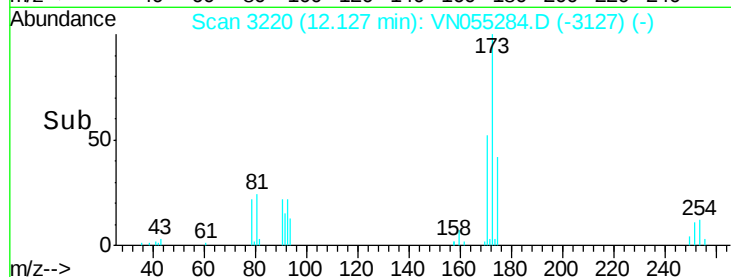
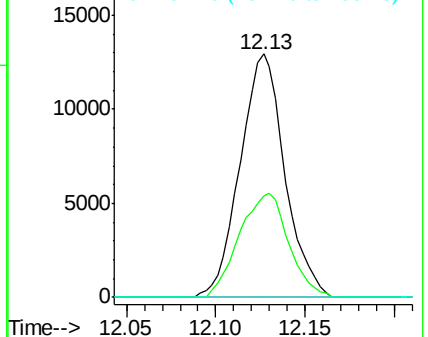
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Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN055284.D

Acq: 29 Apr 2019 10:42

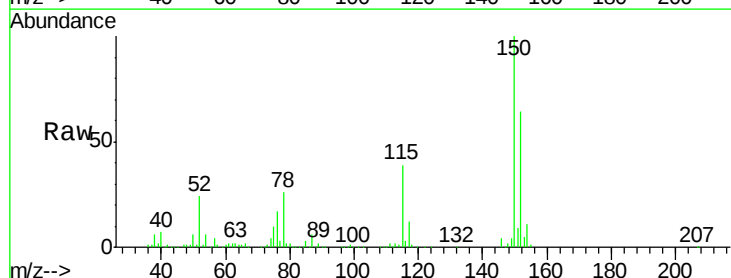
Tgt Ion:152 Resp: 176041

Ion Ratio Lower Upper

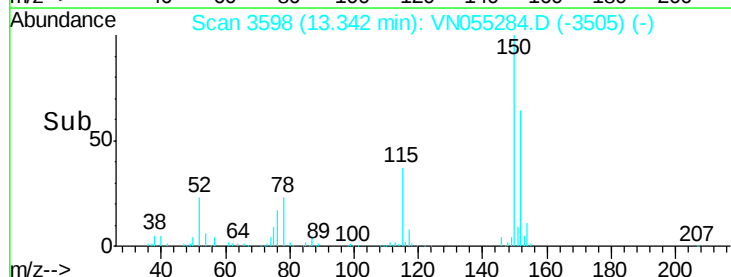
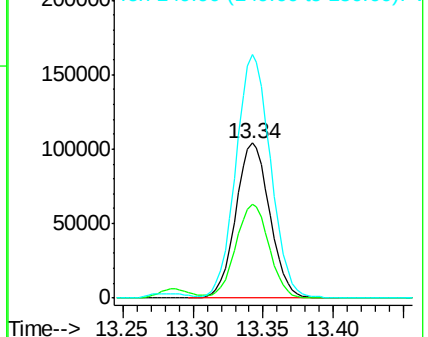
152 100

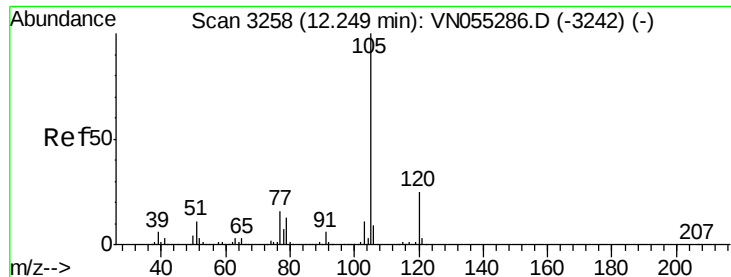
115 59.5 29.0 87.0

150 160.7 0.0 345.6



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 11.227 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN055284.D

Acq: 29 Apr 2019 10:42

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tot Ion:105 Resp: 190390

Ion Ratio Lower Upper

105 100

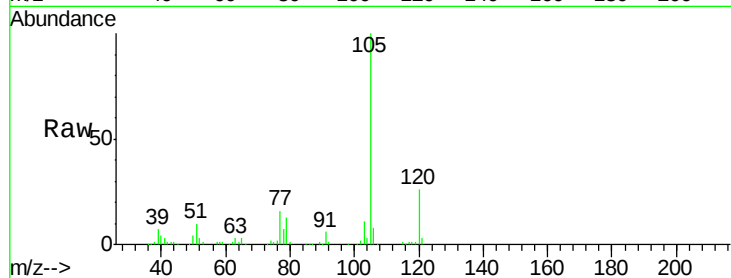
120 25.4 12.9 38.7

Manual Integrations

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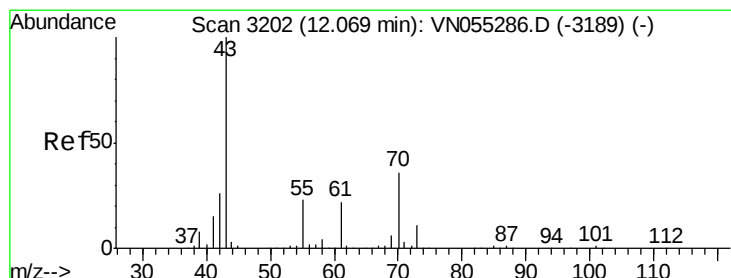
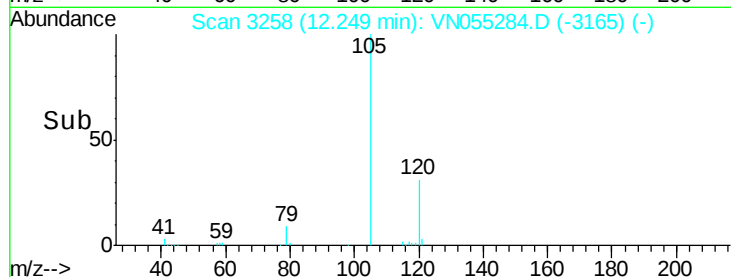
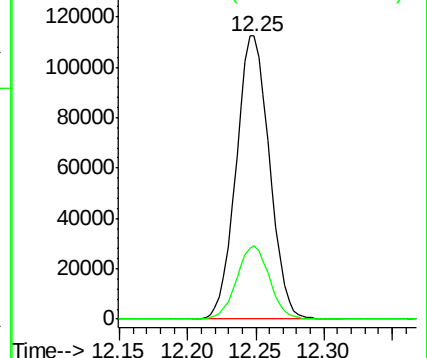
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 9.376 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN055284.D

Acq: 29 Apr 2019 10:42

Tgt Ion: 43 Resp: 42510

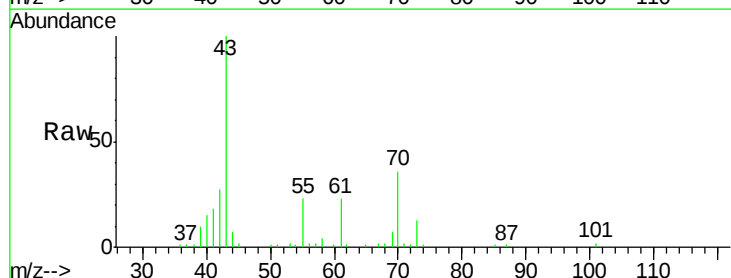
Ion Ratio Lower Upper

43 100

70 37.3 27.9 41.9

55 25.7 18.2 27.2

61 24.1 16.9 25.3

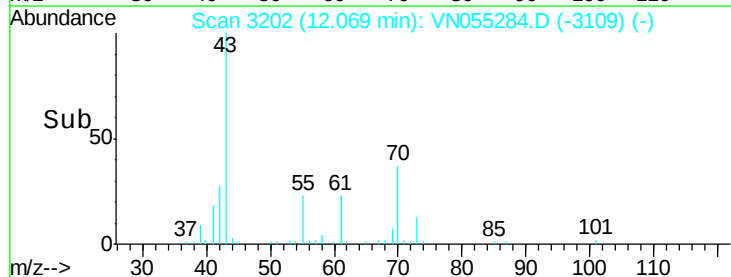
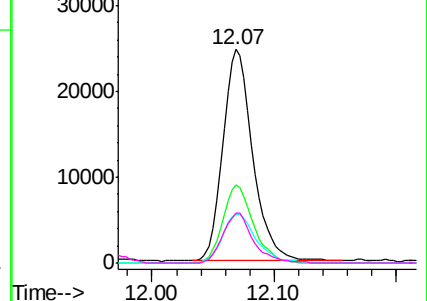


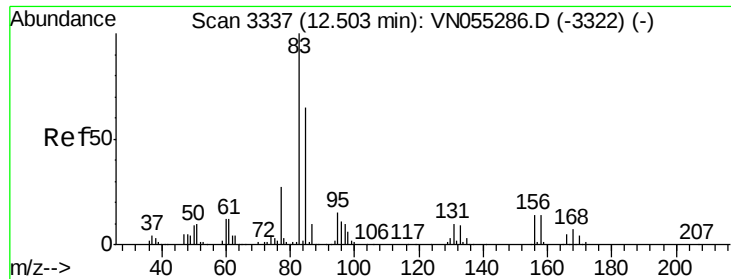
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: 10.518 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN055284.D

Acq: 29 Apr 2019 10:42

Instrument :

MSVOA_N

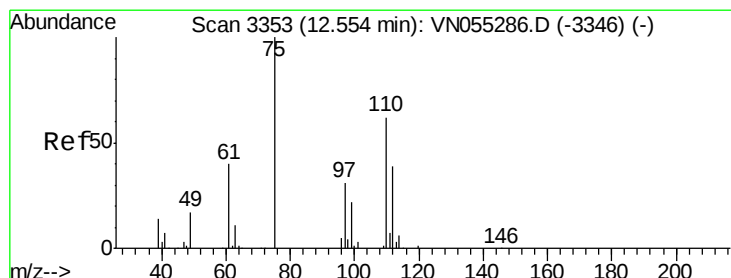
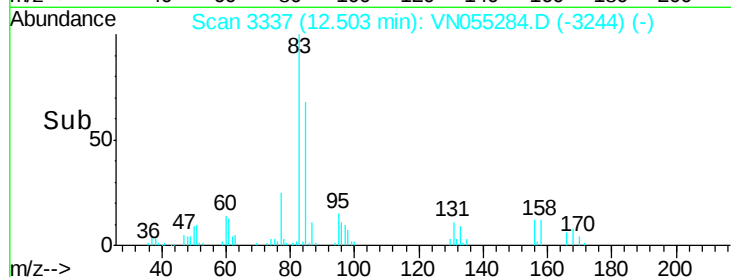
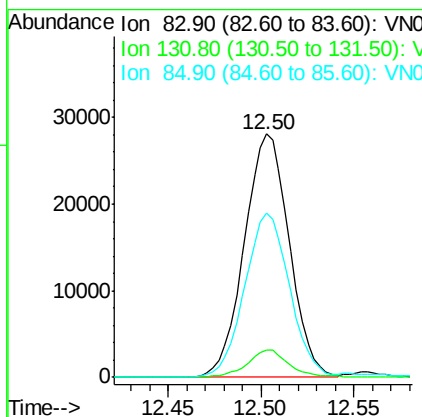
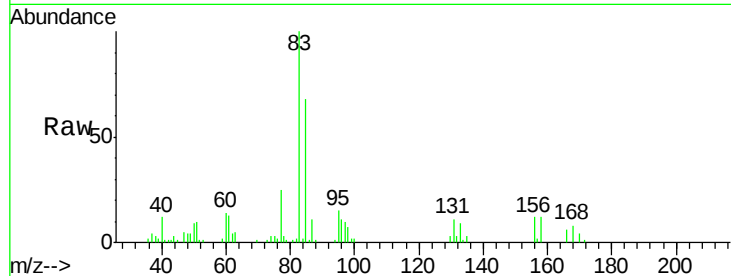
ClientSampleId :

VSTDIC010

Tot Ion:	83	Resp:	47047
Ion Ratio	Lower	Upper	
83	100		
131	10.5	5.1	15.2
85	67.7	32.3	96.8

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#76

1,2,3-Trichloropropane

Concen: 11.200 ug/l m

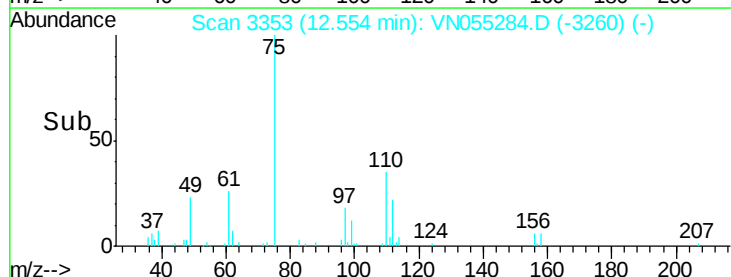
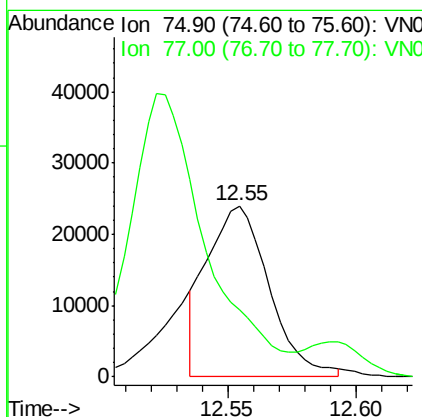
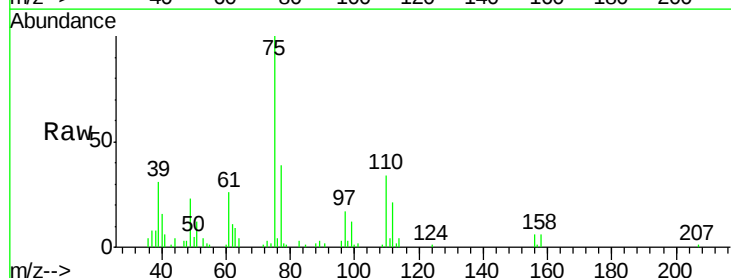
RT: 12.55 min Scan# 3353

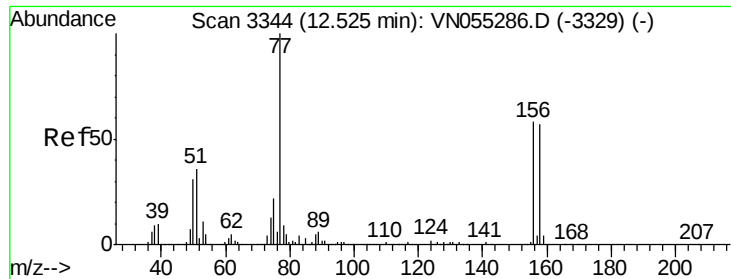
Delta R.T. 0.00 min

Lab File: VN055284.D

Acq: 29 Apr 2019 10:42

Tgt Ion:	75	Resp:	40476
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 10.748 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN055284.D

Acq: 29 Apr 2019 10:42

Instrument :

MSVOA_N

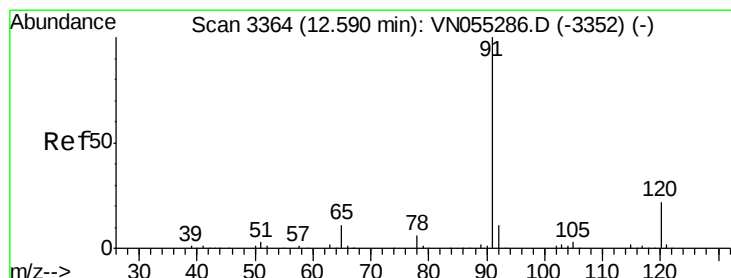
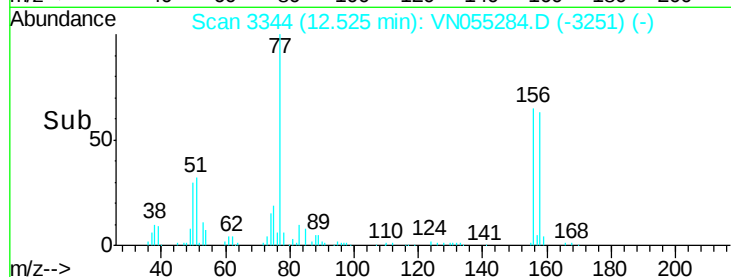
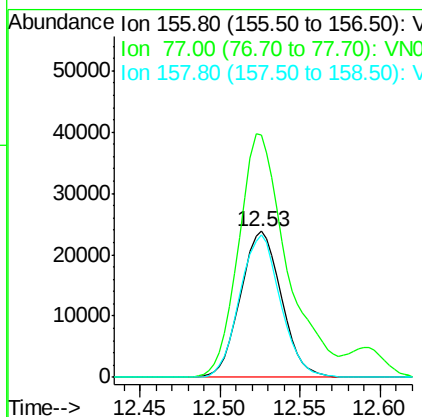
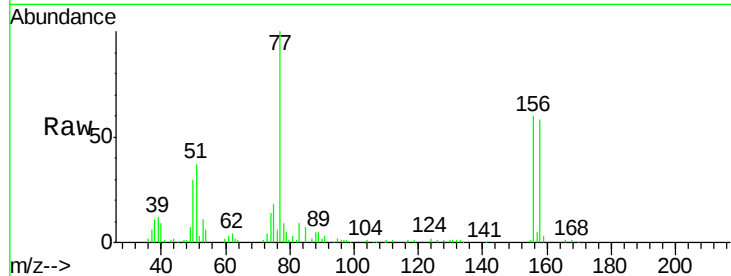
ClientSampleId :

VSTDIC010

Tot Ion:	156	Resp:	41669
Ion	Ratio	Lower	Upper
156	100		
77	197.2	99.6	298.8
158	97.0	49.3	147.8

Manual Integrations
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#78

n-propylbenzene

Concen: 10.801 ug/l

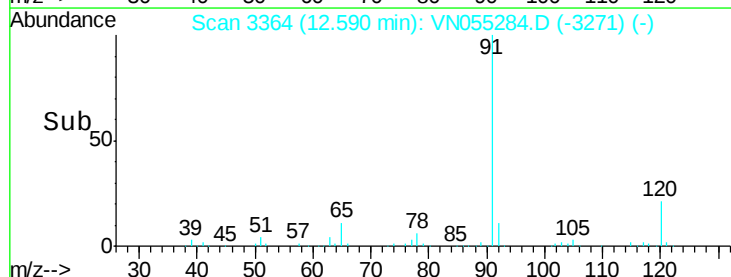
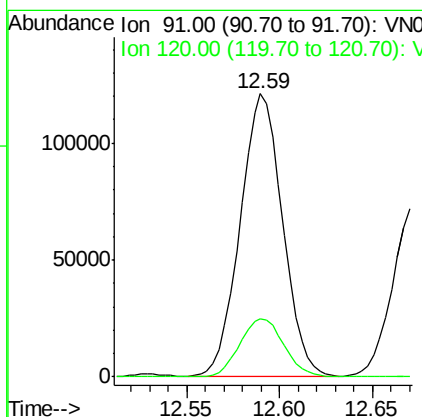
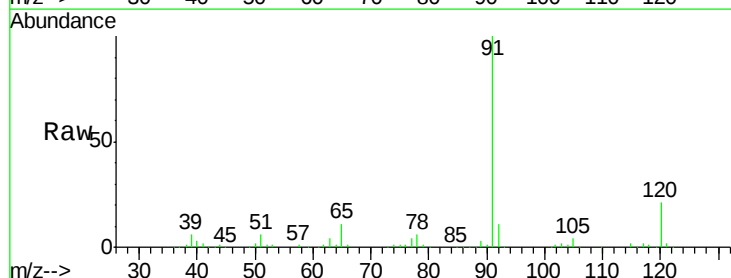
RT: 12.59 min Scan# 3364

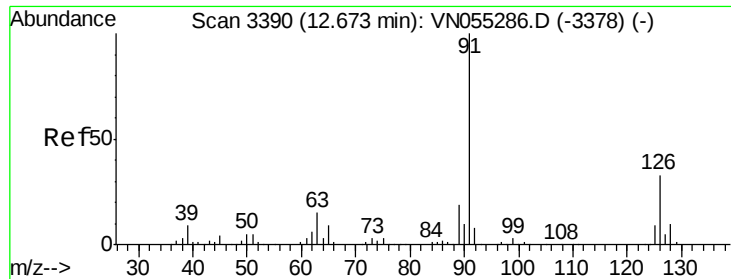
Delta R.T. 0.00 min

Lab File: VN055284.D

Acq: 29 Apr 2019 10:42

Tgt Ion:	91	Resp:	191010
Ion	Ratio	Lower	Upper
91	100		
120	21.5	11.0	33.0





#79

2-Chlorotoluene

Concen: 11.120 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN055284.D

Acq: 29 Apr 2019 10:42

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tot Ion: 91 Resp: 124174

Ion Ratio Lower Upper

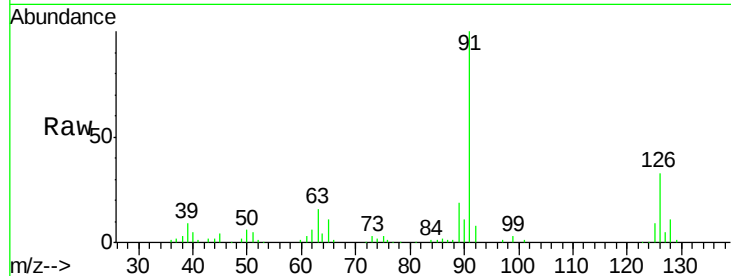
91 100

126 32.9 16.6 49.7

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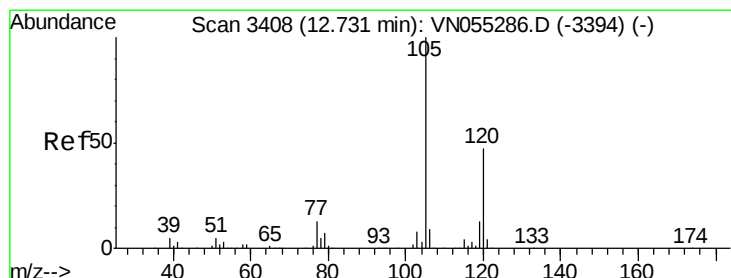
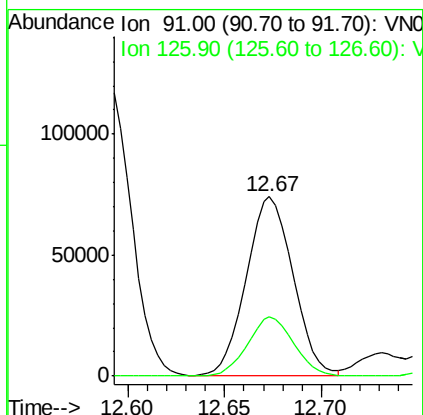
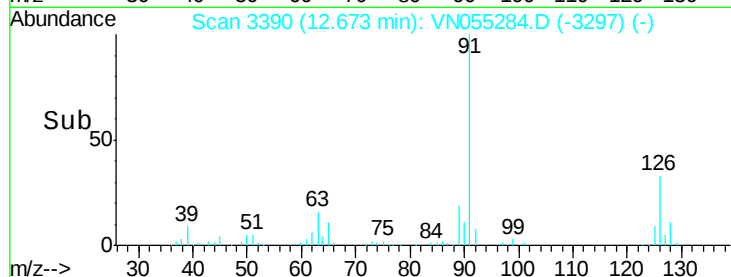
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Abundance Ion 91.00 (90.70 to 91.70): VN055286.D (-3378) (-)

Ion 125.90 (125.60 to 126.60): VN055286.D (-3378) (-)



#80

1,3,5-Trimethylbenzene

Concen: 11.179 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN055284.D

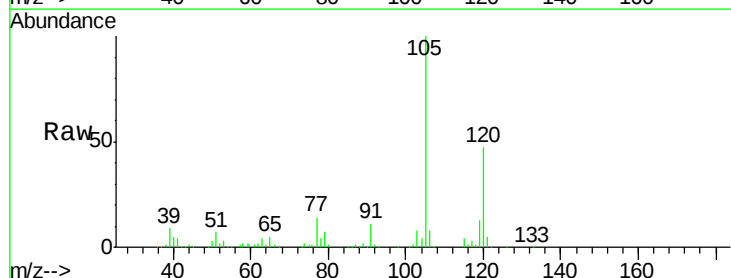
Acq: 29 Apr 2019 10:42

Tgt Ion: 105 Resp: 147365

Ion Ratio Lower Upper

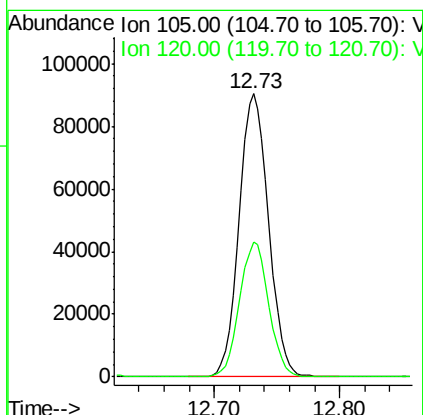
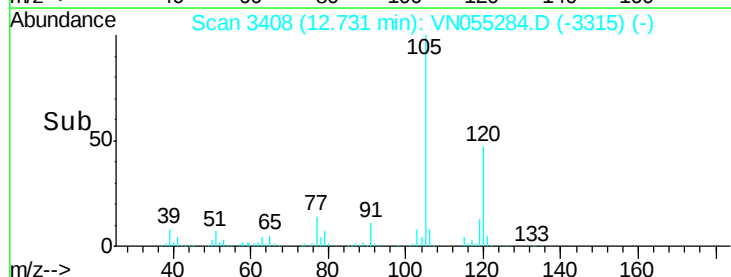
105 100

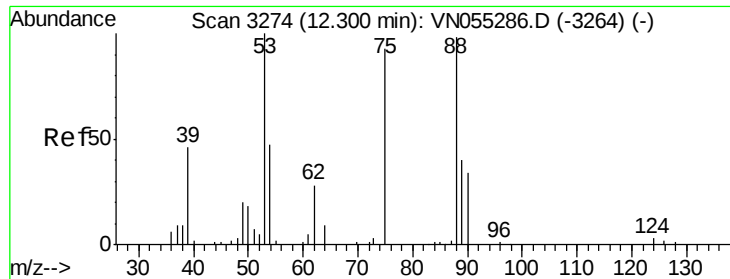
120 47.4 23.4 70.0



Abundance Ion 105.00 (104.70 to 105.70): VN055286.D (-3394) (-)

Ion 120.00 (119.70 to 120.70): VN055286.D (-3394) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 10.310 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN055284.D

Acq: 29 Apr 2019 10:42

Instrument :

MSVOA_N

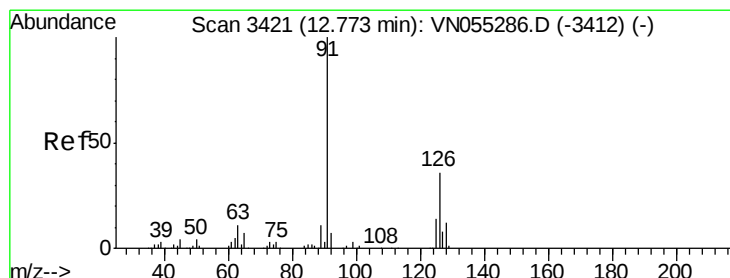
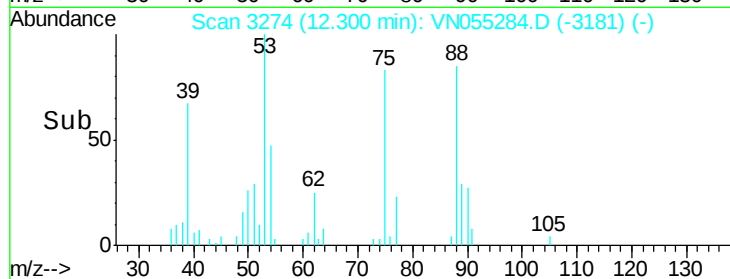
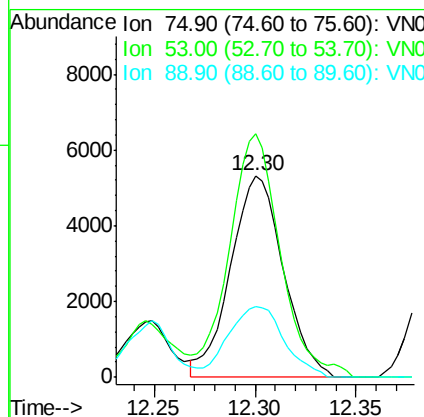
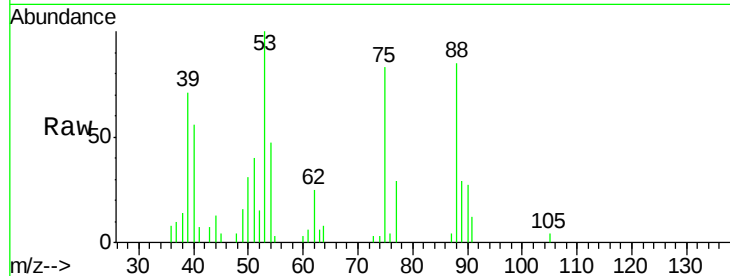
ClientSampleId :

VSTDIC010

Tot Ion:	75	Resp:	9731
Ion	Ratio	Lower	Upper
75	100		
53	117.3	86.3	129.5
89	37.5	34.6	51.8

Manual Integrations
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#82

4-Chlorotoluene

Concen: 10.455 ug/l

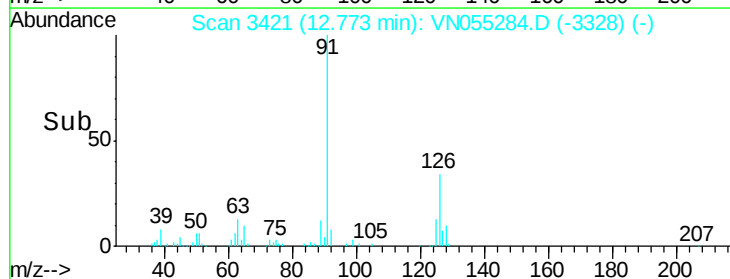
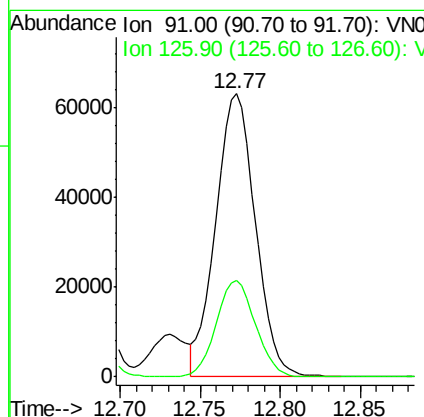
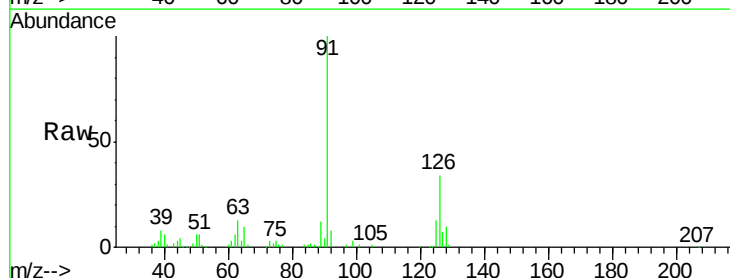
RT: 12.77 min Scan# 3421

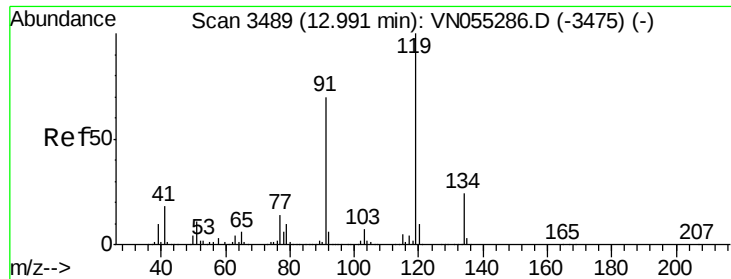
Delta R.T. 0.00 min

Lab File: VN055284.D

Acq: 29 Apr 2019 10:42

Tgt Ion:	91	Resp:	106968
Ion	Ratio	Lower	Upper
91	100		
126	33.7	16.6	49.7





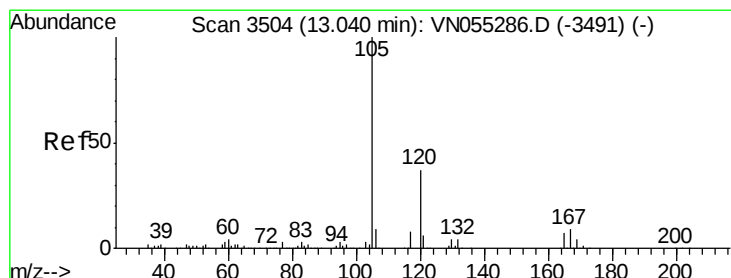
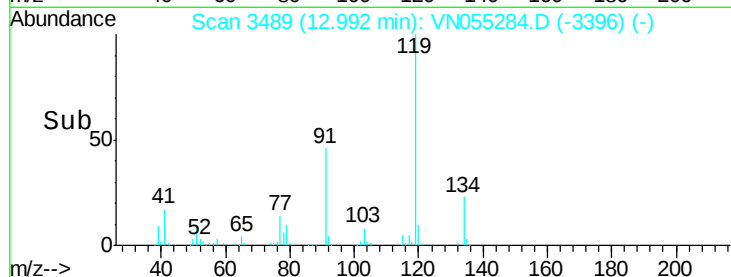
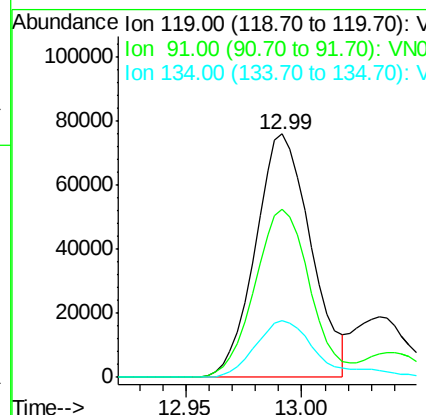
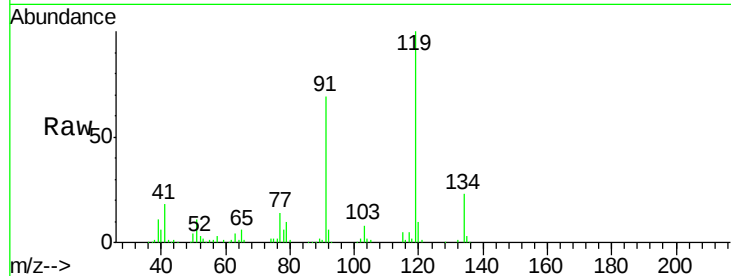
#83
tert-Butylbenzene
Concen: 10.719 ug/l
RT: 12.99 min Scan# 3489
Delta R.T. 0.00 min
Lab File: VN055284.D
Acq: 29 Apr 2019 10:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Lower	Upper
119	100		
91	68.7	34.3	102.9
134	26.3	13.1	39.3

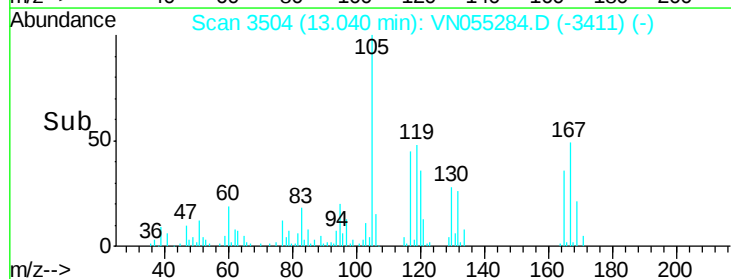
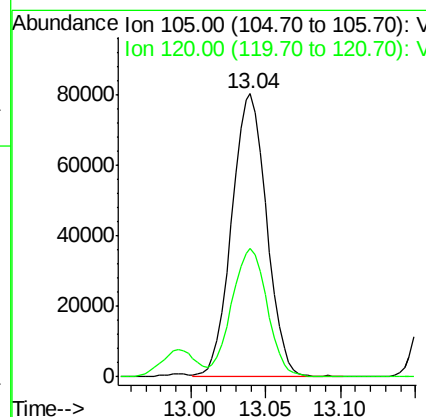
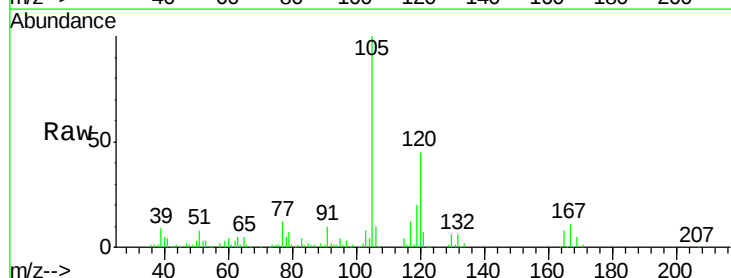
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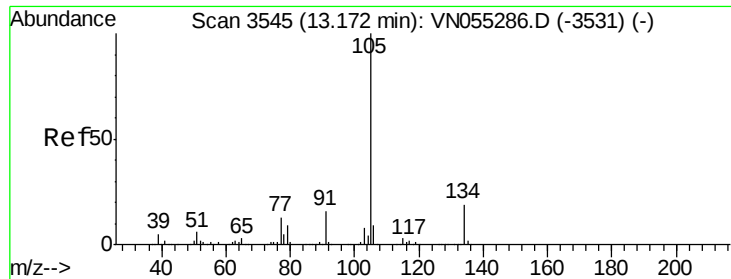
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#84
1,2,4-Trimethylbenzene
Concen: 10.527 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. 0.00 min
Lab File: VN055284.D
Acq: 29 Apr 2019 10:42

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.2	22.1	66.5





#85

sec-Butylbenzene

Concen: 10.823 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN055284.D

Acq: 29 Apr 2019 10:42

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tot Ion:105 Resp: 161567

Ion Ratio Lower Upper

105 100

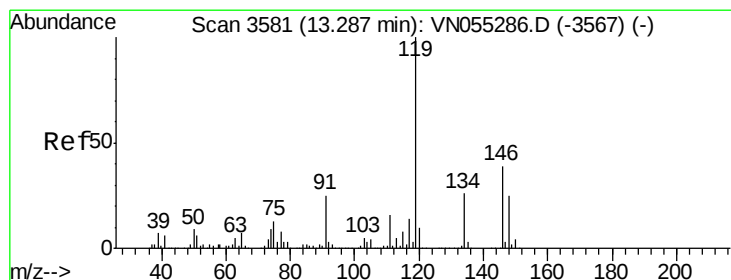
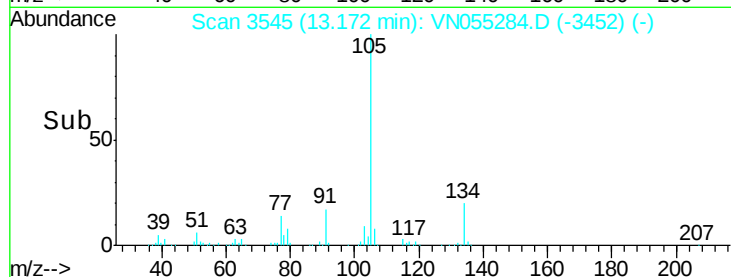
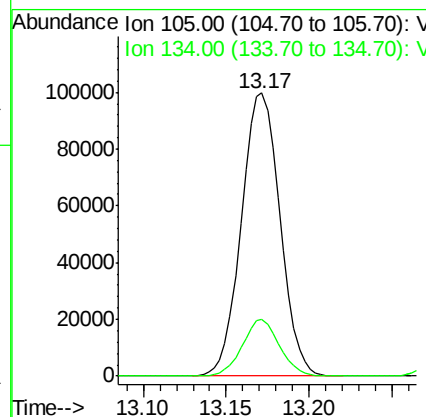
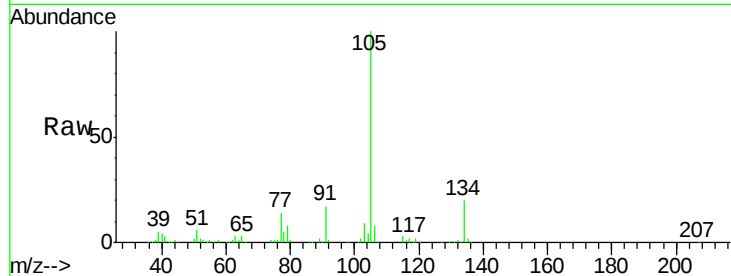
134 19.1 9.6 28.8

Manual Integrations

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#86

p-Isopropyltoluene

Concen: 10.470 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.00 min

Lab File: VN055284.D

Acq: 29 Apr 2019 10:42

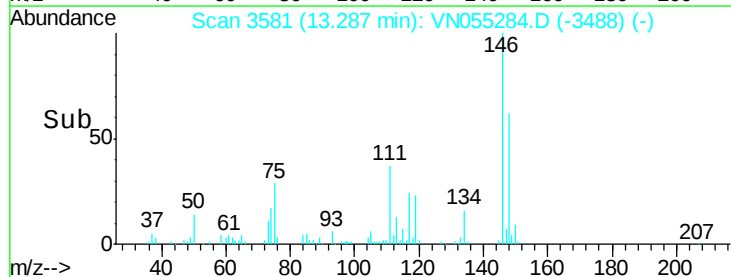
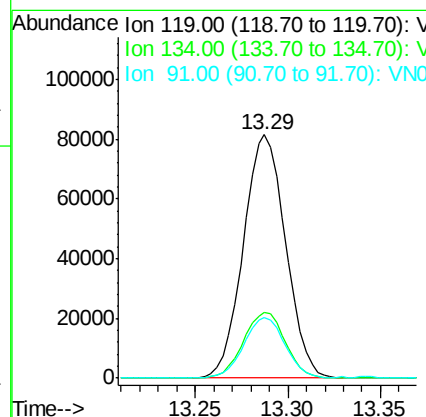
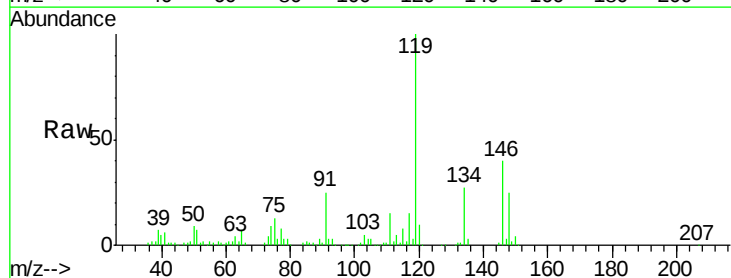
Tgt Ion:119 Resp: 128571

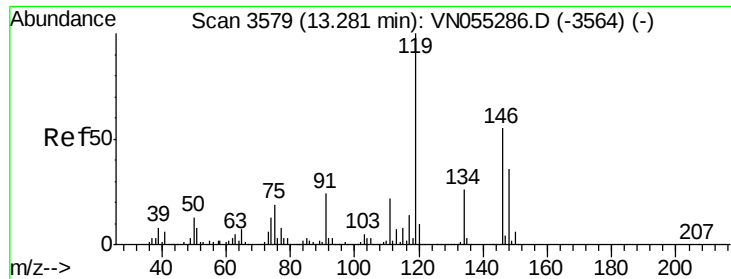
Ion Ratio Lower Upper

119 100

134 26.9 13.0 38.9

91 24.3 12.2 36.6





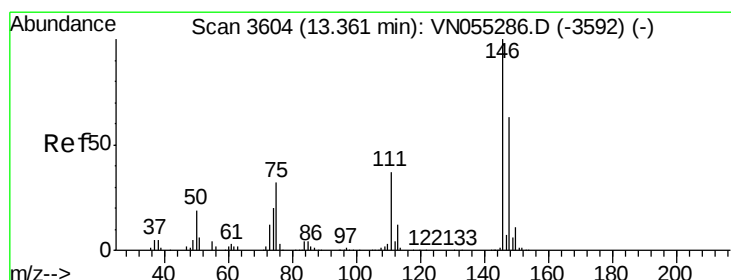
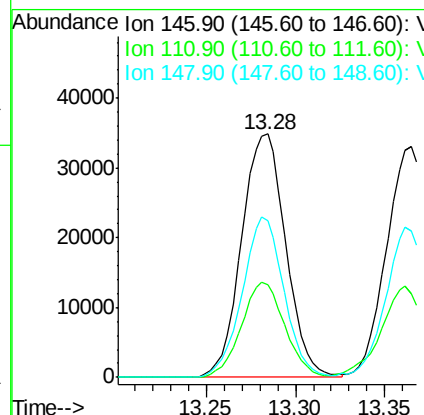
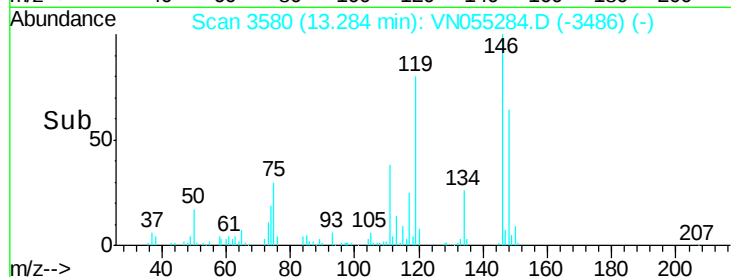
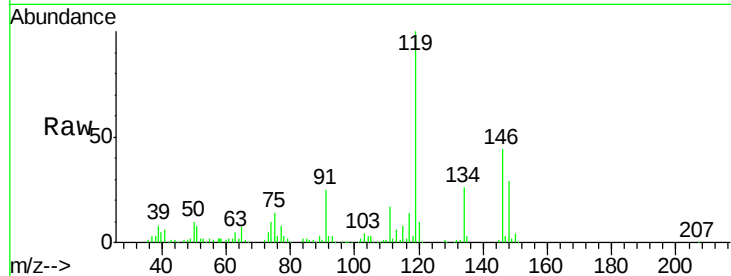
#87
 1,3-Dichlorobenzene
 Concen: 10.195 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN055284.D
 Acq: 29 Apr 2019 10:42

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC010

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.2	20.3	60.8
148	62.1	32.5	97.5

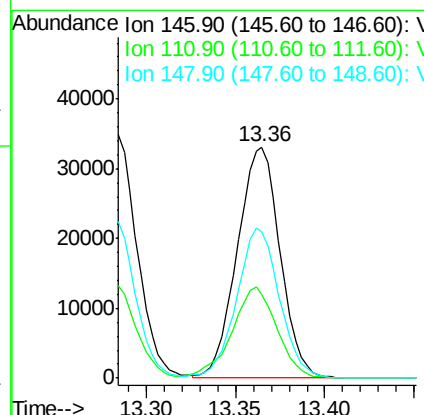
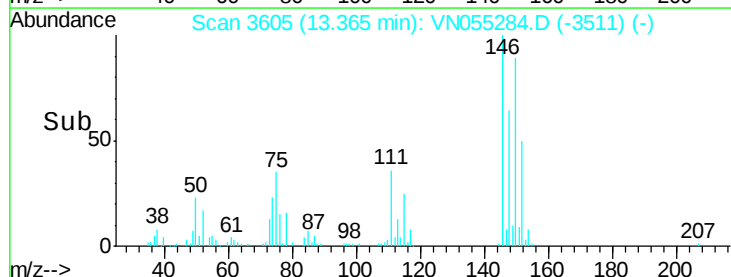
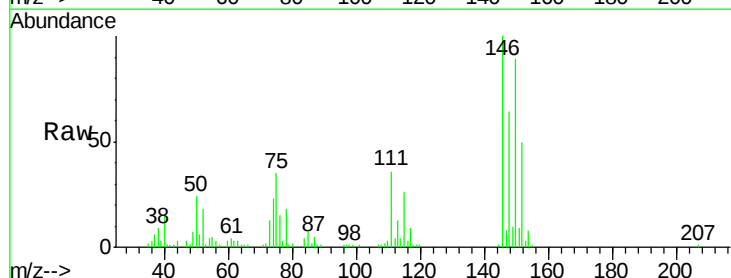
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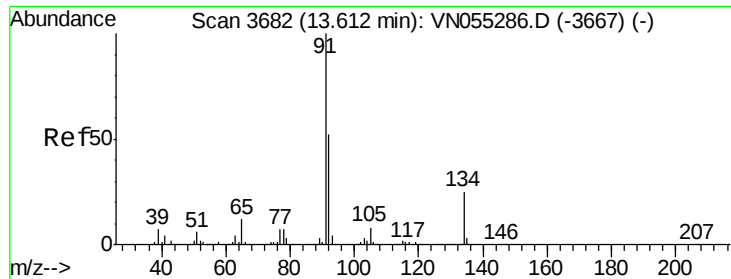
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#88
 1,4-Dichlorobenzene
 Concen: 9.624 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN055284.D
 Acq: 29 Apr 2019 10:42

Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.6	19.5	58.5
148	64.9	32.5	97.4





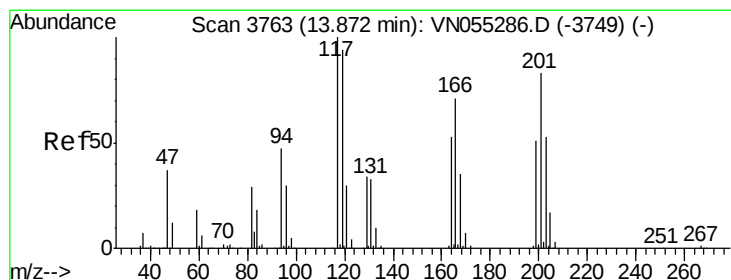
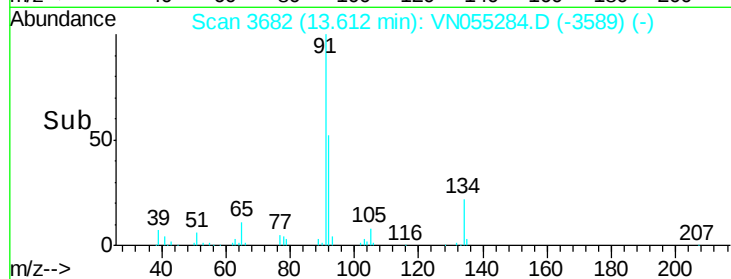
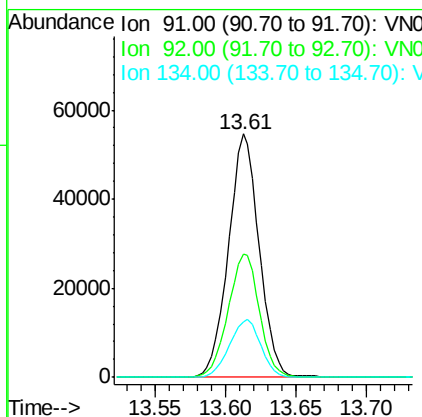
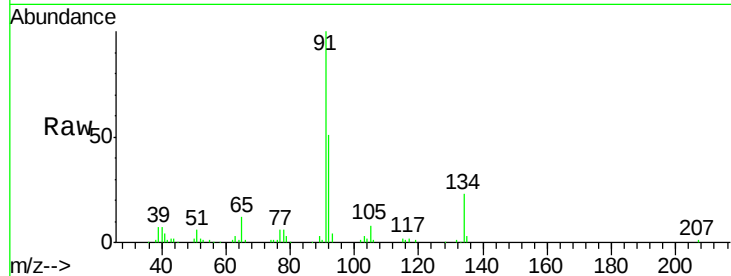
#89
n-Butylbenzene
Concen: 9.182 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. 0.00 min
Lab File: VN055284.D
Acq: 29 Apr 2019 10:42

Instrument :
MSVOA_N
ClientSampled :
VSTDIC010

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.4	26.1	78.3
134	24.2	12.4	37.4

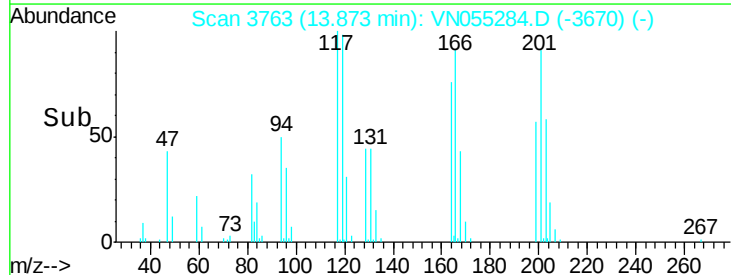
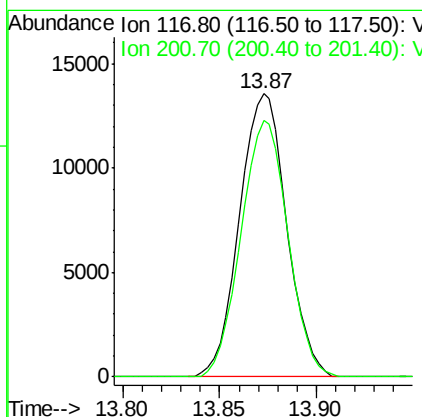
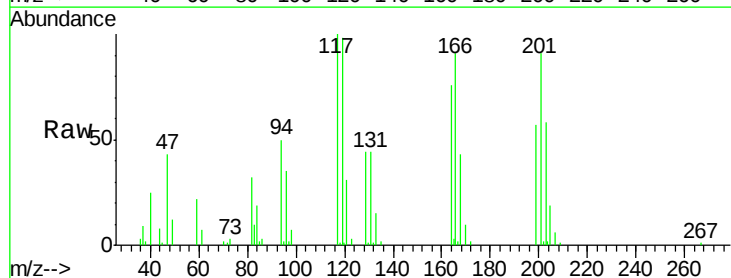
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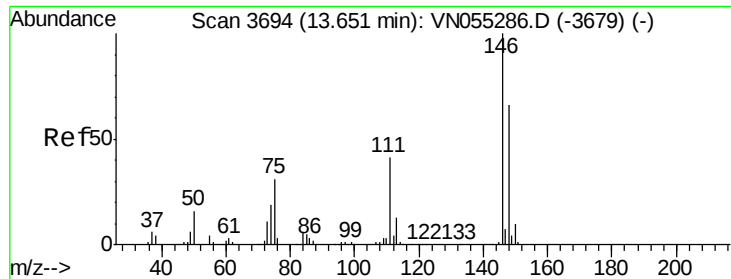
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#90
Hexachloroethane
Concen: 10.469 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. 0.00 min
Lab File: VN055284.D
Acq: 29 Apr 2019 10:42

Tgt Ion	Ratio	Lower	Upper
117	100		
201	90.1	41.9	125.8





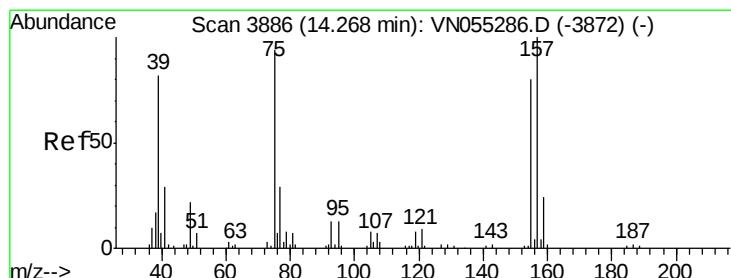
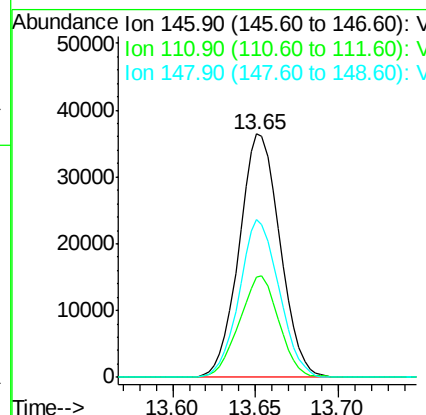
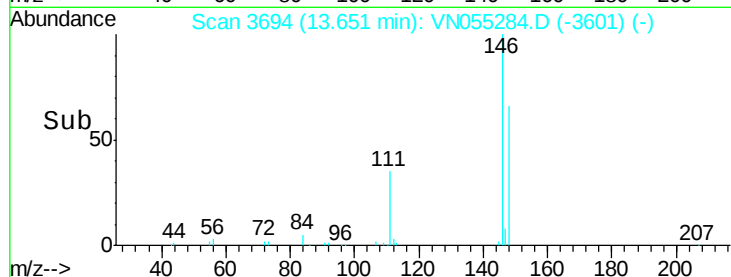
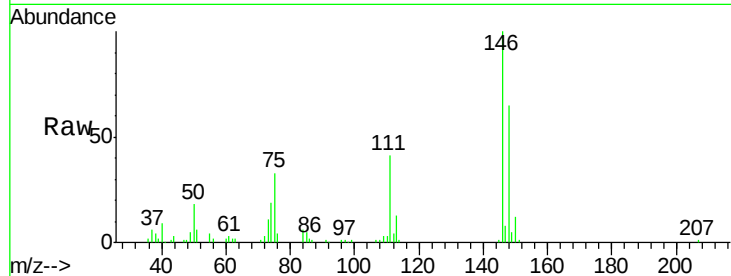
#91
 1,2-Dichlorobenzene
 Concen: 10.299 ug/l
 RT: 13.65 min Scan# 3694
 Delta R.T. 0.00 min
 Lab File: VN055284.D
 Acq: 29 Apr 2019 10:42

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC010

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.5	20.3	61.0
148	62.9	32.4	97.2

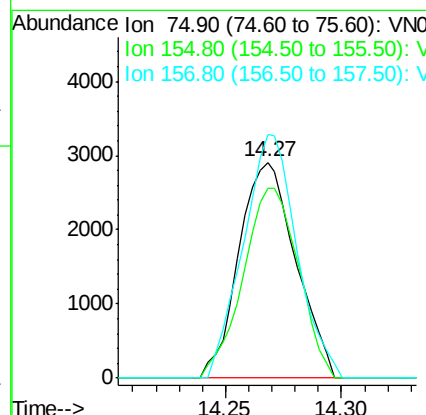
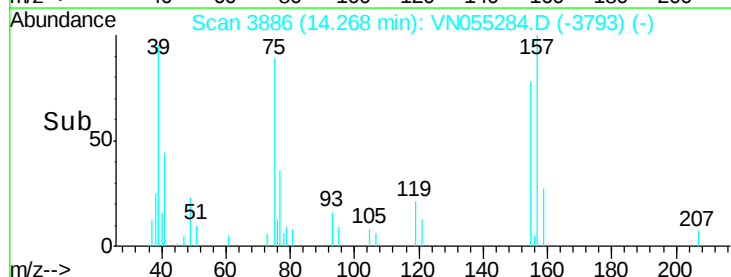
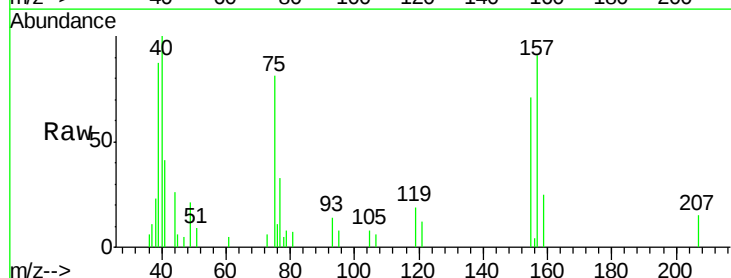
Manual Integrations
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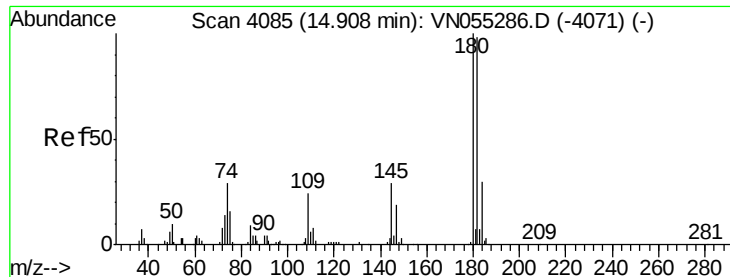
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 9.278 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. 0.00 min
 Lab File: VN055284.D
 Acq: 29 Apr 2019 10:42

Tgt Ion	Ratio	Lower	Upper
75	100		
155	85.9	41.5	124.6
157	106.8	54.0	162.2





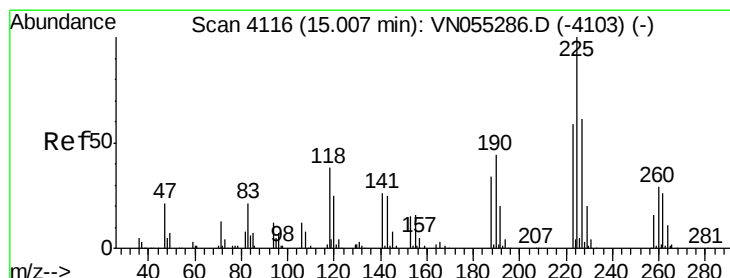
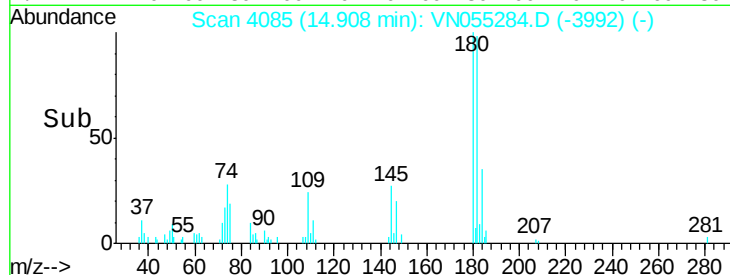
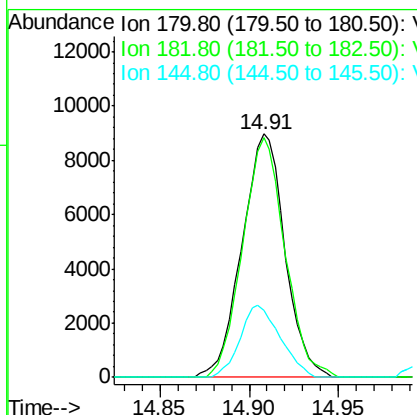
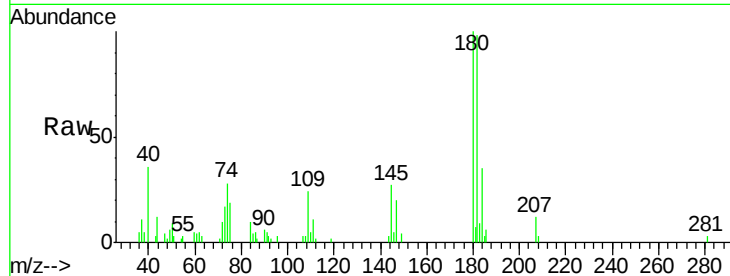
#93
 1,2,4-Trichlorobenzene
 Concen: 7.128 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN055284.D
 Acq: 29 Apr 2019 10:42

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC010

Tot Ion	Ratio	Resp	Lower	Upper
180	100	15043		
182	97.1	48.3	144.9	
145	27.6	14.2	42.6	

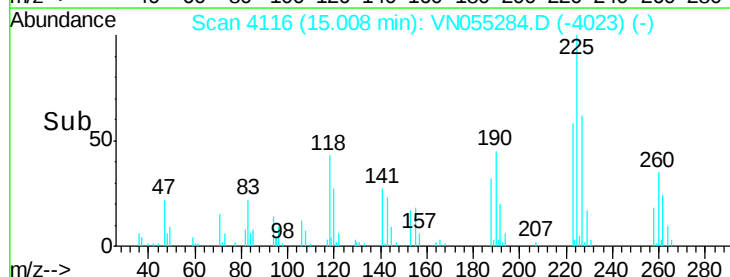
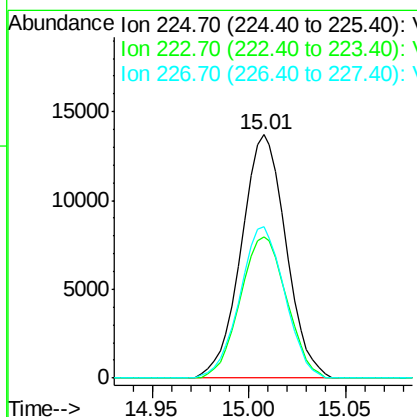
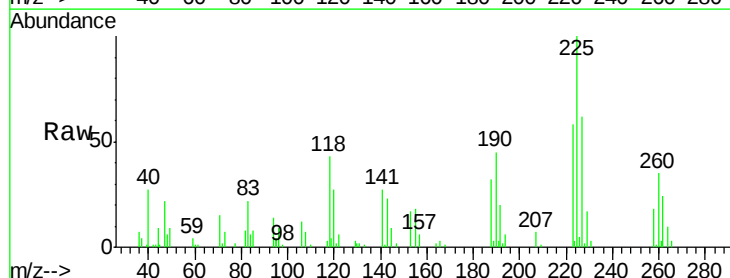
Manual Integrations
 APPROVED

MMDadoda
 4/30/2019 11:58:54 AM



#94
 Hexachlorobutadiene
 Concen: 10.072 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN055284.D
 Acq: 29 Apr 2019 10:42

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	22098		
223	60.1	30.3	90.8	
227	62.5	30.9	92.7	





#95

Naphthalene

Concen: 7.945 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN055284.D

Acq: 29 Apr 2019 10:42

Instrument :

MSVOA_N

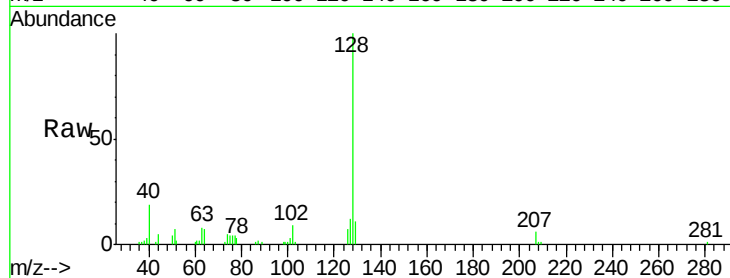
ClientSampled :

VSTDIC010

Tot Ion:	128	Resp:	35315
Ion Ratio	Lower	Upper	
128	100		
127	13.1	10.7	16.1
129	11.1	8.6	13.0

Manual Integrations
APPROVED

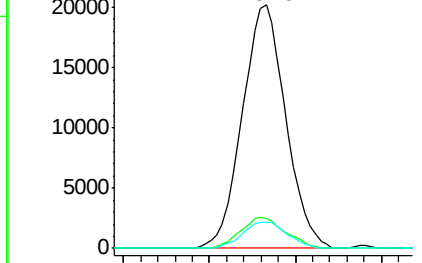
MMDadoda
4/30/2019 11:58:54 AM



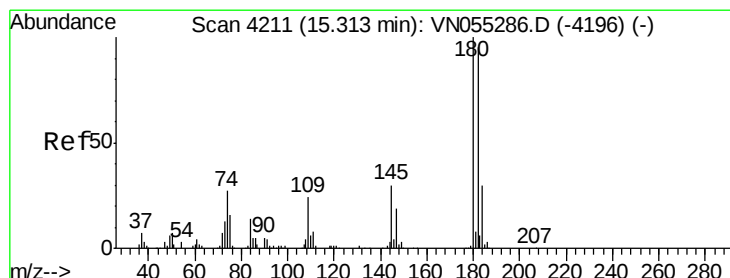
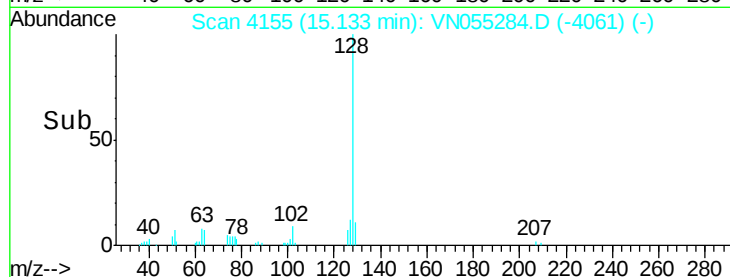
Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



Time-->



#96

1,2,3-Trichlorobenzene

Concen: 7.773 ug/l

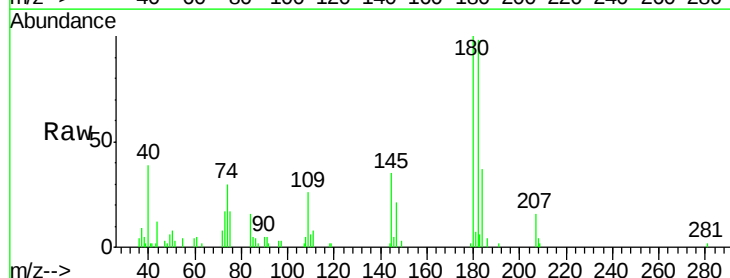
RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN055284.D

Acq: 29 Apr 2019 10:42

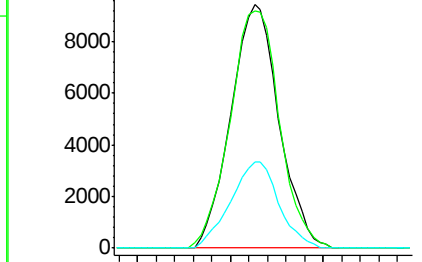
Tgt Ion:	180	Resp:	17035
Ion Ratio	Lower	Upper	
180	100		
182	100.0	48.3	144.9
145	35.3	15.2	45.6



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



Time-->

