

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092818\
 Data File : VN051618.D
 Acq On : 28 Sep 2018 16:02
 Operator : MD\SY
 Sample : J4870-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PT-VOA-WP

Manual Integrations
 APPROVED

MMDadoda
 10/3/2018 5:27:42 PM

Quant Time: Sep 29 05:03:12 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N092818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Sep 29 01:07:29 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	96622	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	526189	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	476056	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	208243	30.95	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	103.17%
60) 4-Bromofluorobenzene	12.40	95	210054	28.69	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	95.63%
63) Toluene-d8	10.09	98	674745	30.04	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.13%

Target Compounds

					Ovalue
3) Chloromethane	2.06	50	9055	0.954	ug/l 92
4) Vinyl Chloride	2.19	62	444403	47.741	ug/l 98
5) Bromomethane	2.57	94	326955	67.619	ug/l 99
6) Chloroethane	2.70	64	155789	33.361	ug/l 100
12) Methyl Acetate	4.33	43	5325m	1.034	ug/l
15) Acetone	3.82	58	67705	125.226	ug/l 94
18) Methylene Chloride	4.55	84	201153	29.990	ug/l 98
19) trans-1,2-Dichloroethene	5.05	96	144520	23.335	ug/l 97
21) 1,1-Dichloroethane	5.85	63	673278	54.869	ug/l 99
24) Methyl tert-Butyl Ether	5.05	73	1596332	104.109	ug/l 100
25) Chloroform	7.37	83	646503	55.103	ug/l 99
30) 2-Butanone	6.84	43	449399	184.028	ug/l 97
32) 1,1,1-Trichloroethane	7.57	97	174751	17.334	ug/l 99
34) Benzene	8.04	78	2247755	84.438	ug/l # 93
37) Trichloroethene	8.83	130	508872	74.456	ug/l 99
39) 1,2-Dichloropropane	9.12	63	677079	92.824	ug/l 99
40) Dibromomethane	9.21	93	502979	124.133	ug/l 98
49) cis-1,3-Dichloropropene	9.84	75	1145412	110.981	ug/l 100
53) Dibromochloromethane	10.90	129	455563	69.853	ug/l 99
54) 1,2-Dibromoethane	11.01	107	544002	99.009	ug/l 99
56) Bromoform	12.13	173	409756	94.687	ug/l 99
58) 4-Methyl-2-Pentanone	9.99	43	788012	145.794	ug/l 99
59) 2-Hexanone	10.75	43	438126	123.216	ug/l 99
61) Tetrachloroethene	10.63	164	350994	52.076	ug/l 98
62) Toluene	10.16	91	1550450	53.115	ug/l 99
64) Chlorobenzene	11.43	112	769222	43.584	ug/l 99
65) 1,1,1,2-Tetrachloroethane	11.51	131	946599	140.460	ug/l 99
66) Ethyl Benzene	11.51	91	489675	16.391	ug/l 100
67) m/p-Xylenes	11.62	106	458392	39.812	ug/l 98
68) o-Xylene	11.95	106	913021	83.069	ug/l 97
69) Styrene	11.96	104	2195009	127.235	ug/l 95
71) 1,1,2,2-Tetrachloroethane	12.50	83	990778	139.678	ug/l 99
72) 1,2,3-Trichloropropane	12.55	75	824638	135.977	ug/l 1
76) 1,3,5-Trimethylbenzene	12.73	105	1265552	51.659	ug/l 99
80) 1,2,4-Trimethylbenzene	13.04	105	2109642	86.216	ug/l 100
83) 1,3-Dichlorobenzene	13.28	146	1506907	118.527	ug/l 99
84) 1,4-Dichlorobenzene	13.36	146	1094450	91.579	ug/l 100

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Manual Integrations
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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N092818W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Sep 29 01:07:29 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
86) Hexachloroethane	13.88	117	7157	1.428	ug/l	71
87) 1,2-Dichlorobenzene	13.65	146	747474	60.101	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	14.27	75	83797	81.054	ug/l	98
89) 1,2,4-Trichlorobenzene	14.91	180	803135	137.970	ug/l	98
90) Hexachlorobutadiene	15.01	225	722850	152.318	ug/l	98
91) Naphthalene	15.13	128	1850141	116.435	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	4547	0.777	ug/l	88

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

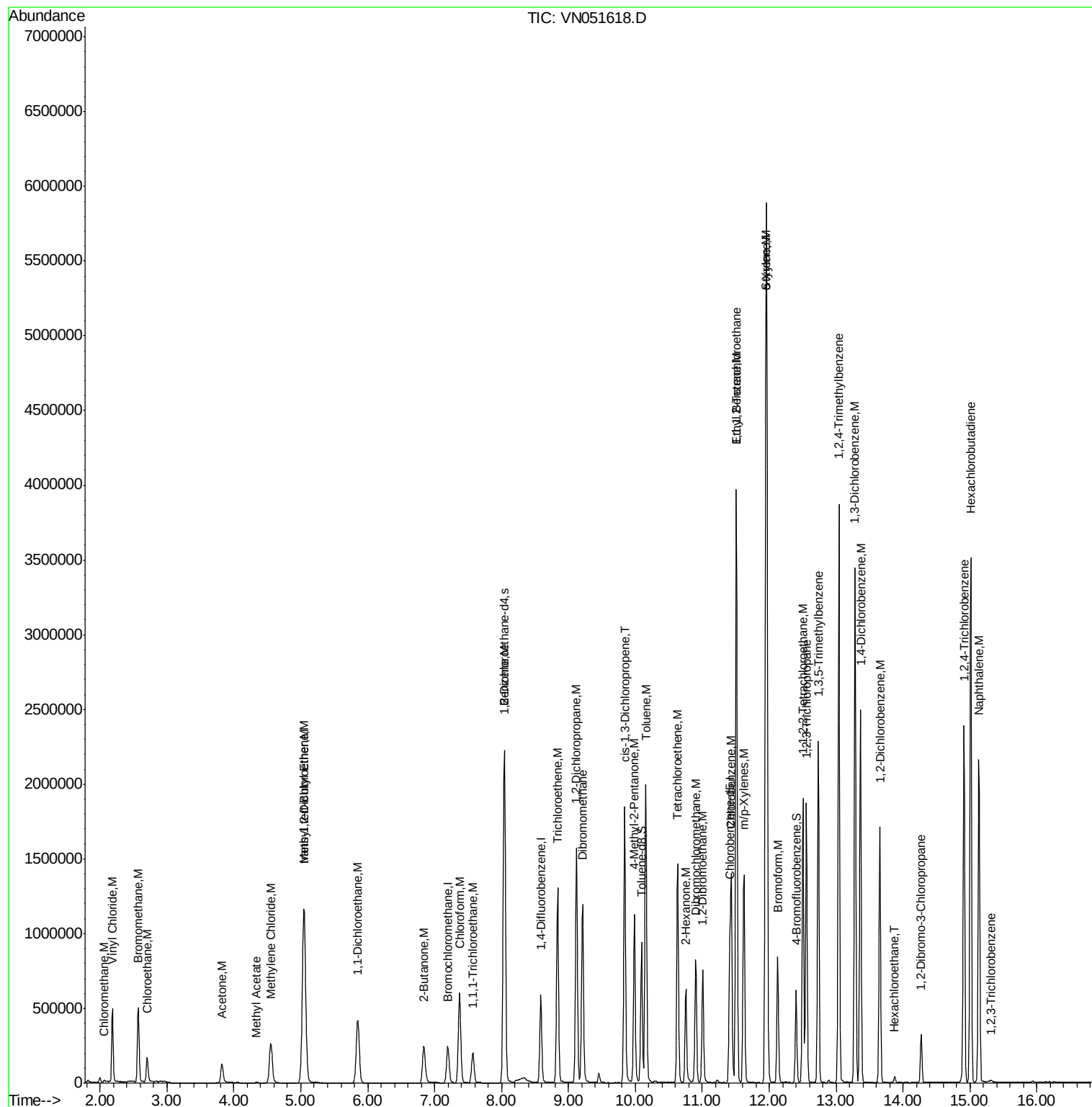
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092818\
Data File : VN051618.D
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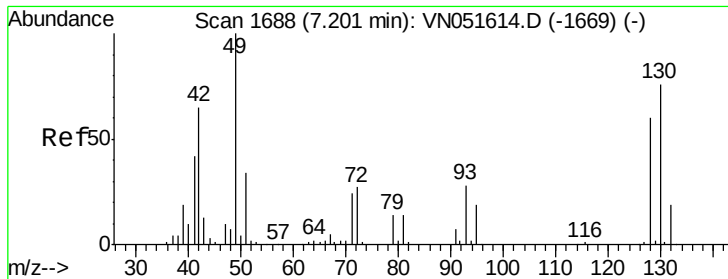
Instrument :
MSVOA_N
ClientSampleId :
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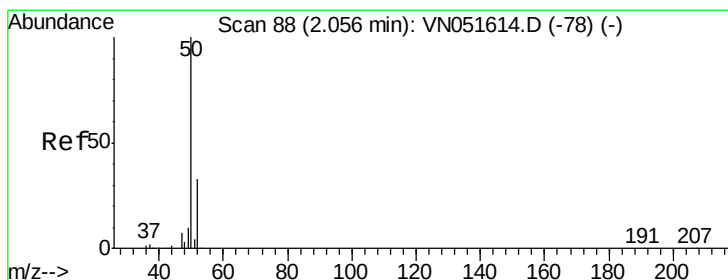
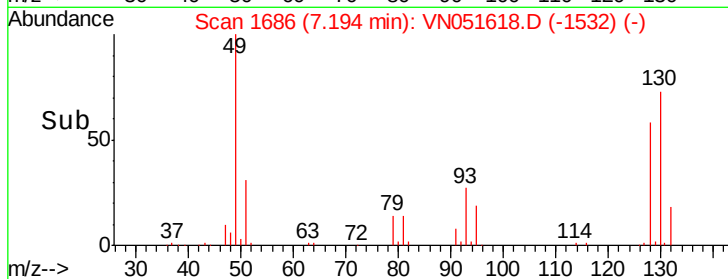
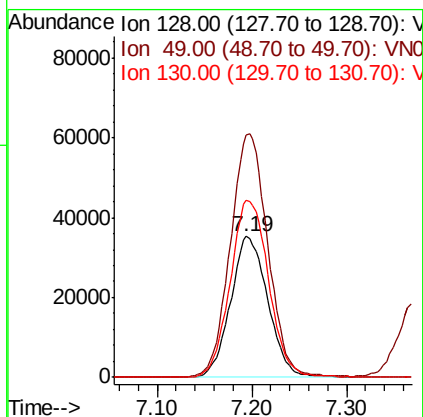
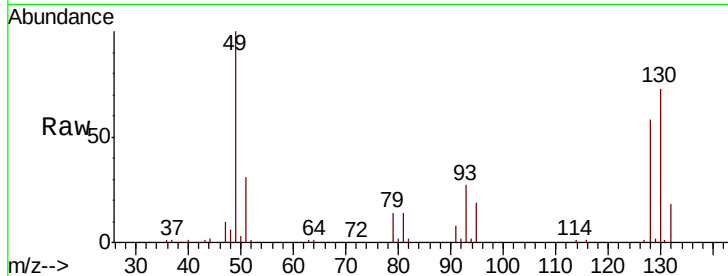
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.19 min Scan# 1686
Delta R.T. -0.01 min
Lab File: VN051618.D
Acq: 28 Sep 2018 16:02

Instrument :
MSVOA_N
ClientSampled :
PT-VOA-WP

Tot Ion	Ratio	Lower	Upper
128	100		
49	173.4	0.0	426.8
130	129.2	0.0	326.3

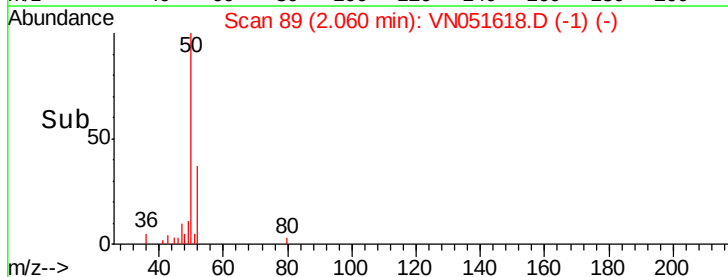
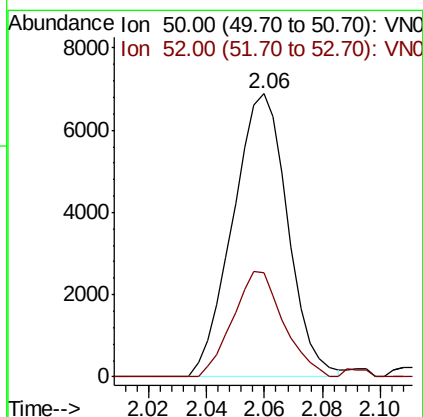
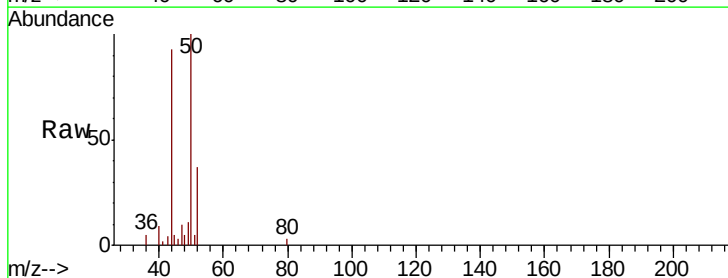
Manual Integrations
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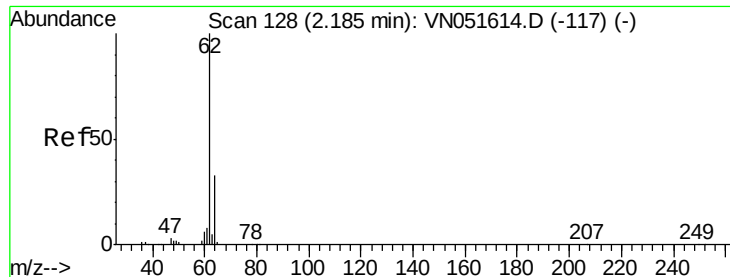
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#3
Chloromethane
Concen: 0.954 ug/l
RT: 2.06 min Scan# 89
Delta R.T. 0.00 min
Lab File: VN051618.D
Acq: 28 Sep 2018 16:02

Tgt Ion	Ratio	Lower	Upper
50	100		
52	36.8	26.0	39.0





#4

Vinyl Chloride

Concen: 47.741 ug/l

RT: 2.19 min Scan# 128

Delta R.T. 0.00 min

Lab File: VN051618.D

Acq: 28 Sep 2018 16:02

Instrument :

MSVOA_N

ClientSampleId :

PT-VOA-WP

Tot Ion: 62 Resp: 444403

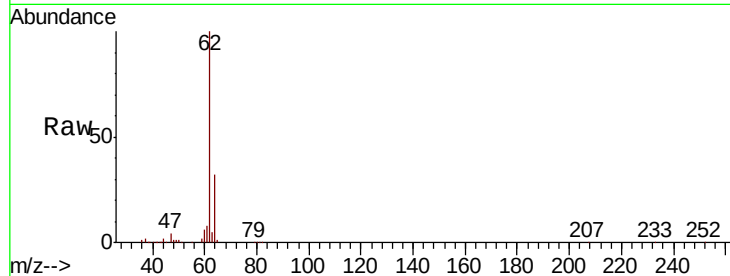
Ion Ratio Lower Upper

62 100

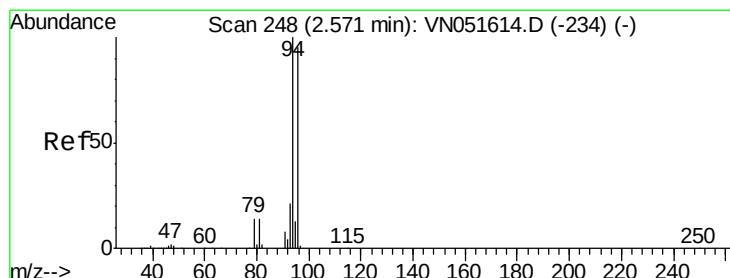
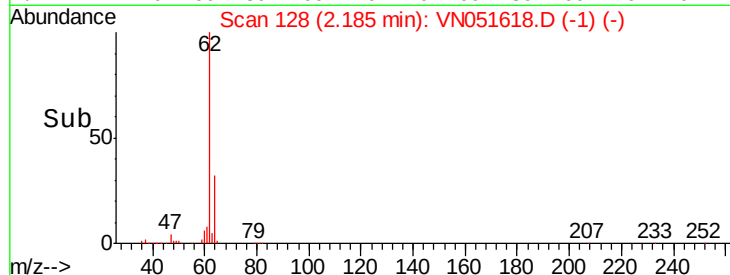
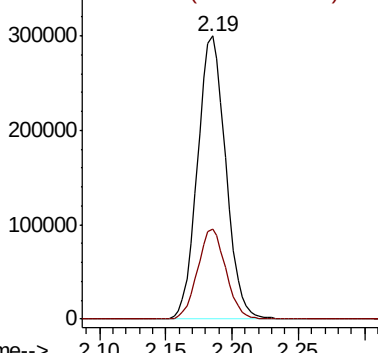
64 31.9 26.3 39.5

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Abundance Ion 62.00 (61.70 to 62.70): VNO
Ion 64.00 (63.70 to 64.70): VNO



#5

Bromomethane

Concen: 67.619 ug/l

RT: 2.57 min Scan# 248

Delta R.T. 0.00 min

Lab File: VN051618.D

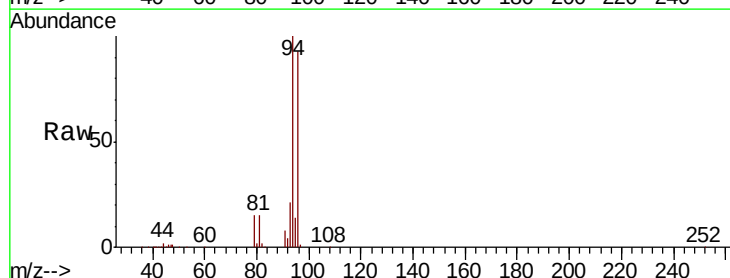
Acq: 28 Sep 2018 16:02

Tgt Ion: 94 Resp: 326955

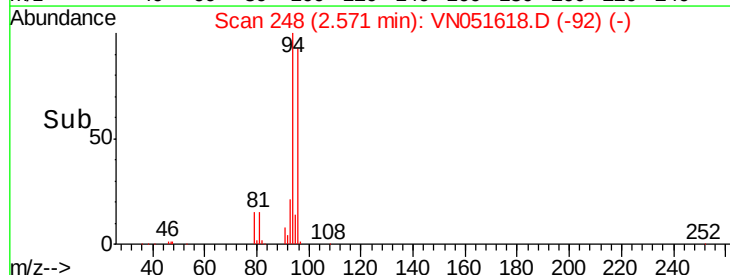
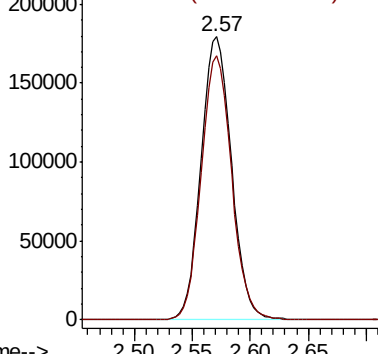
Ion Ratio Lower Upper

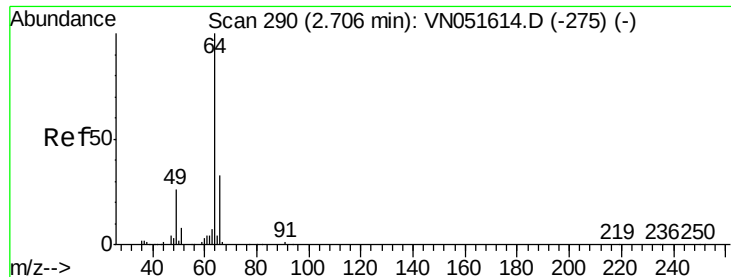
94 100

96 93.3 75.8 113.6



Abundance Ion 94.00 (93.70 to 94.70): VNO
Ion 96.00 (95.70 to 96.70): VNO





#6

Chloroethane

Concen: 33.361 ug/l

RT: 2.70 min Scan# 289

Delta R.T. -0.00 min

Lab File: VN051618.D

Acq: 28 Sep 2018 16:02

Instrument :

MSVOA_N

ClientSampled :

PT-VOA-WP

Tot Ion: 64 Resp: 155789

Ion Ratio Lower Upper

64 100

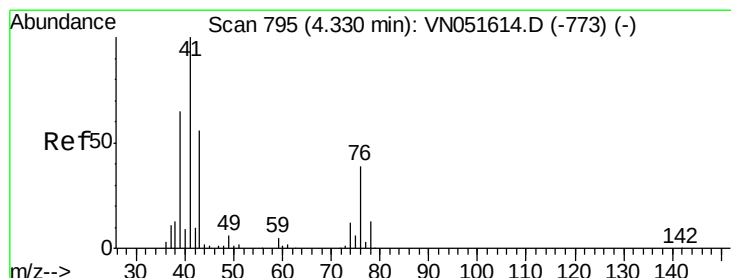
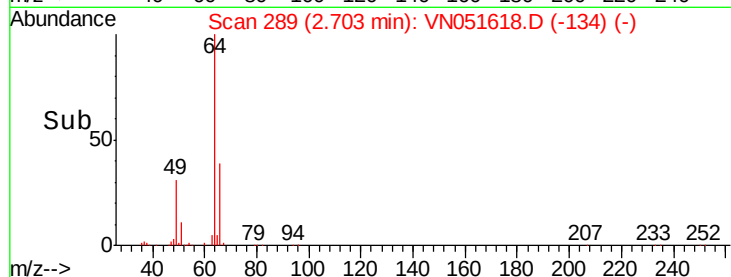
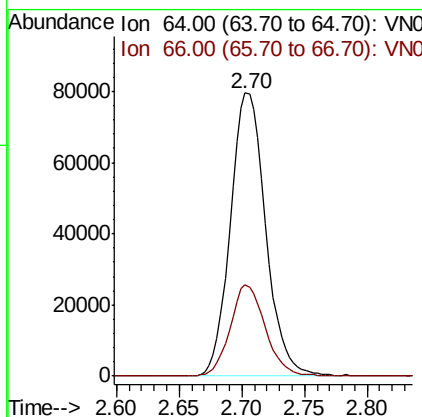
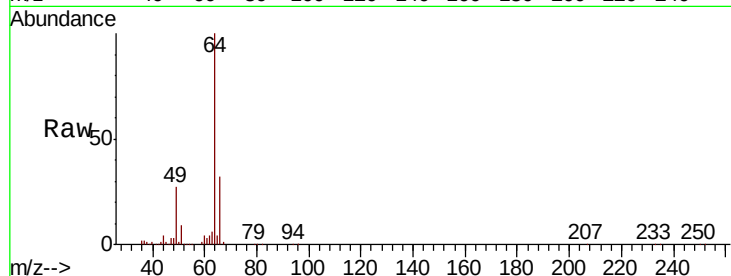
66 32.4 26.1 39.1

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#12

Methyl Acetate

Concen: 1.034 ug/l m

RT: 4.33 min Scan# 795

Delta R.T. 0.00 min

Lab File: VN051618.D

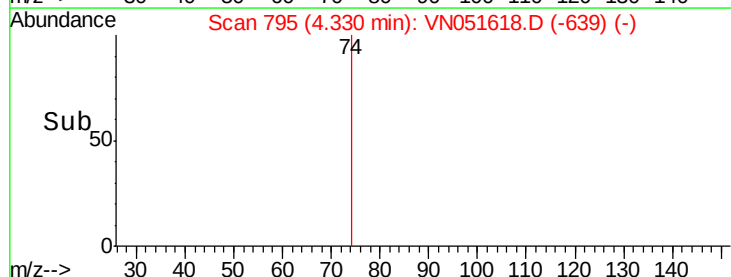
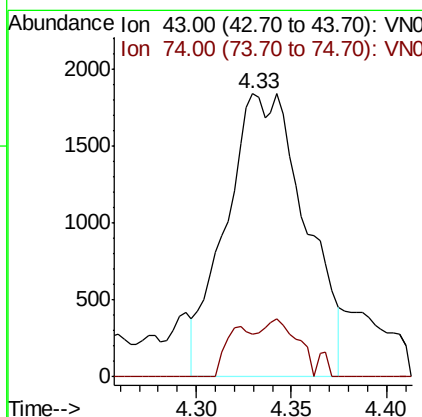
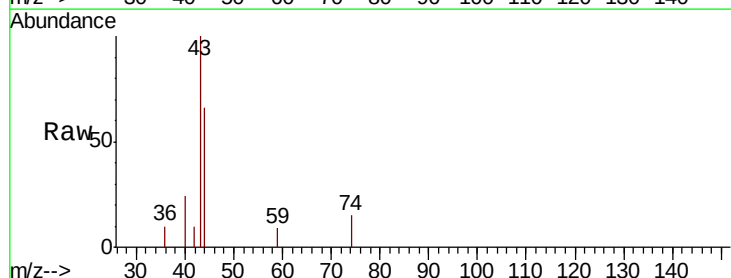
Acq: 28 Sep 2018 16:02

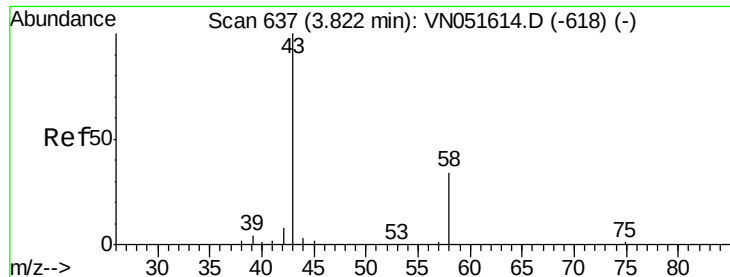
Tgt Ion: 43 Resp: 5325

Ion Ratio Lower Upper

43 100

74 14.9 17.0 25.4#





#15

Acetone

Concen: 125.226 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN051618.D

Acq: 28 Sep 2018 16:02

Instrument :

MSVOA_N

ClientSampled :

PT-VOA-WP

Tot Ion: 58 Resp: 67705

Ion Ratio Lower Upper

58 100

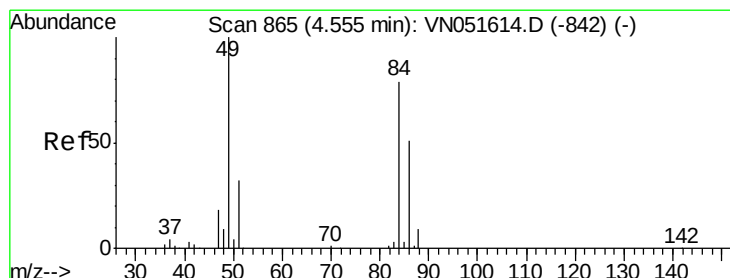
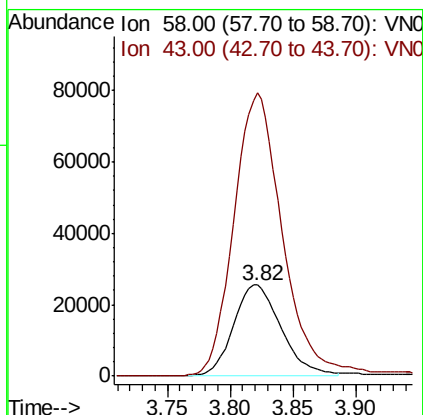
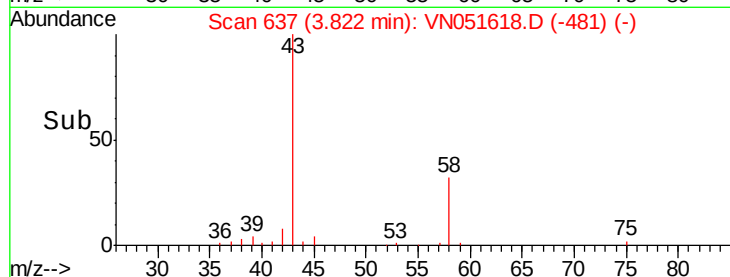
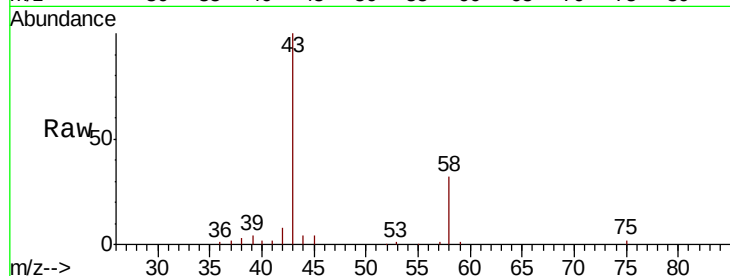
43 308.7 238.0 357.0

Manual Integrations

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#18

Methylene Chloride

Concen: 29.990 ug/l

RT: 4.55 min Scan# 864

Delta R.T. -0.00 min

Lab File: VN051618.D

Acq: 28 Sep 2018 16:02

Tgt Ion: 84 Resp: 201153

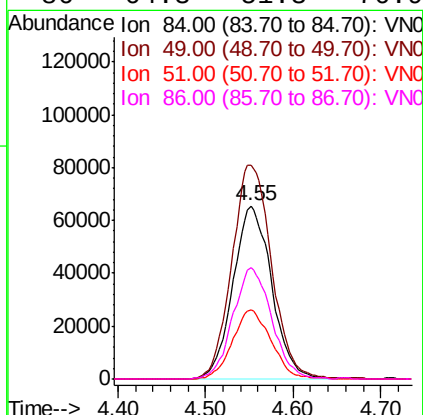
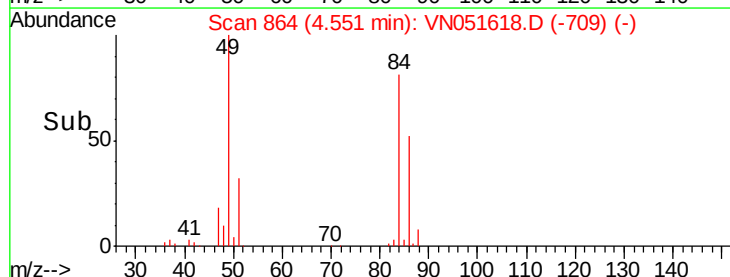
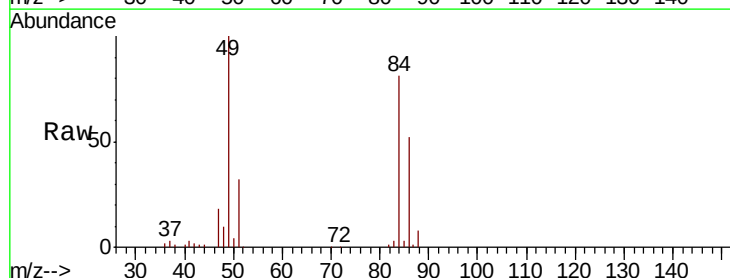
Ion Ratio Lower Upper

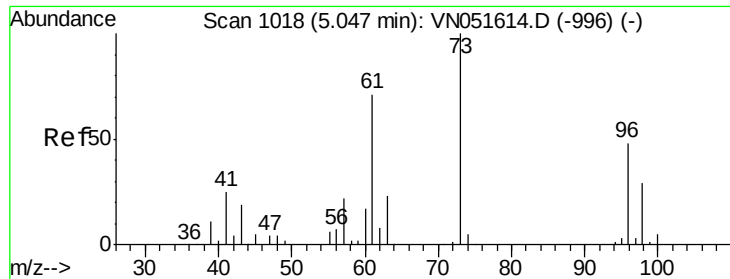
84 100

49 123.1 100.9 151.3

51 39.9 32.5 48.7

86 64.3 51.3 76.9





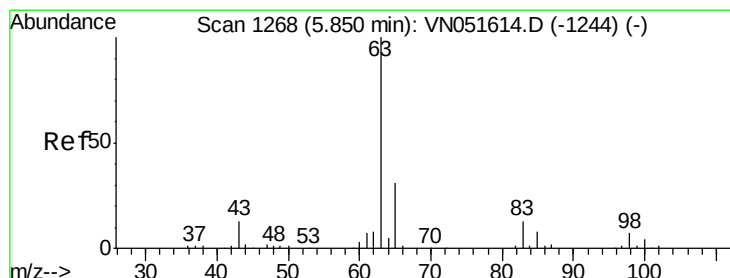
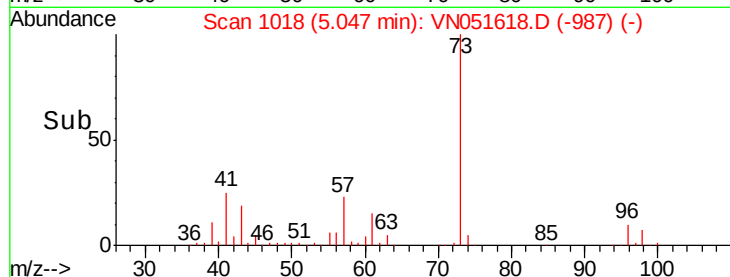
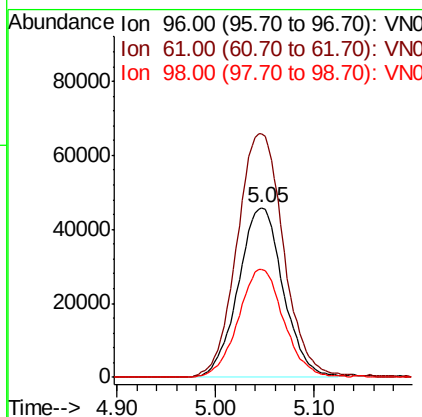
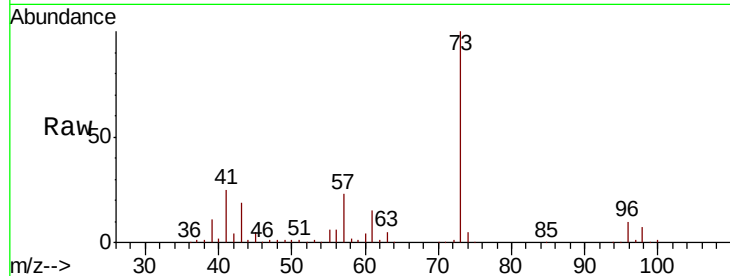
#19
trans-1,2-Dichloroethene
Concen: 23.335 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VN051618.D
Acq: 28 Sep 2018 16:02

Instrument :
MSVOA_N
ClientSampled :
PT-VOA-WP

Tot Ion	Ratio	Lower	Upper
96	100		
61	142.9	118.0	177.0
98	63.6	49.0	73.4

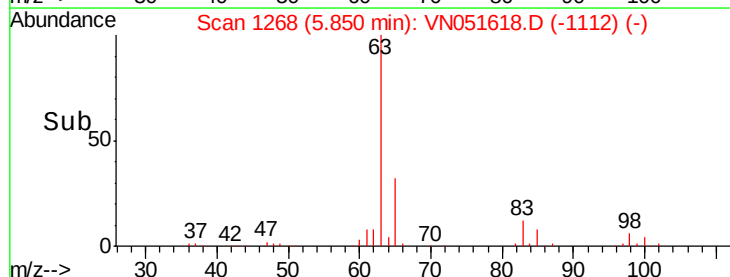
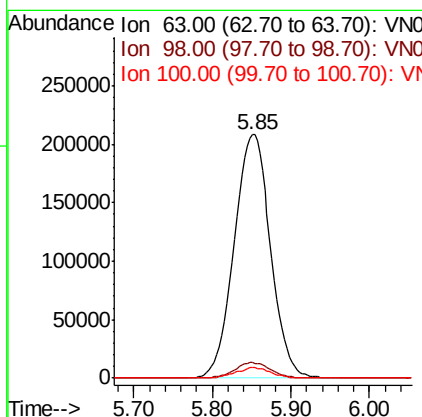
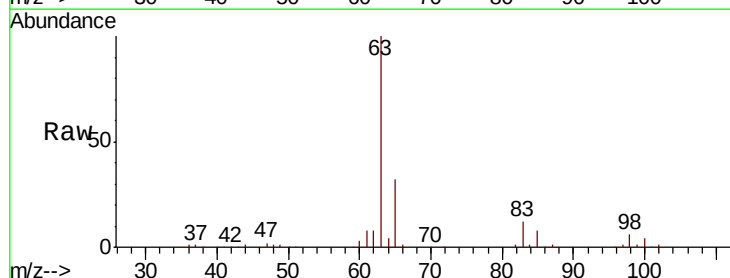
Manual Integrations
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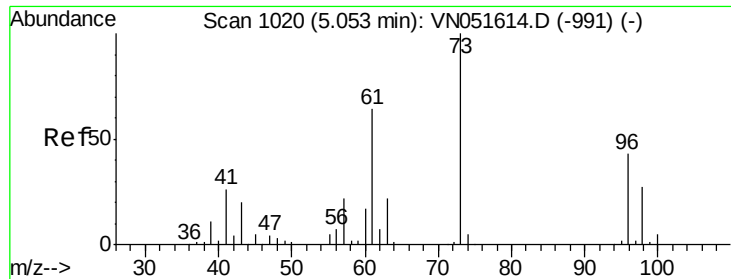
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#21
1,1-Dichloroethane
Concen: 54.869 ug/l
RT: 5.85 min Scan# 1268
Delta R.T. 0.00 min
Lab File: VN051618.D
Acq: 28 Sep 2018 16:02

Tgt Ion	Ratio	Lower	Upper
63	100		
98	6.3	3.3	9.9
100	4.3	2.0	5.8





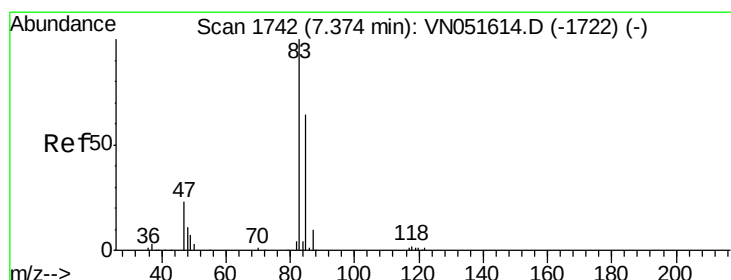
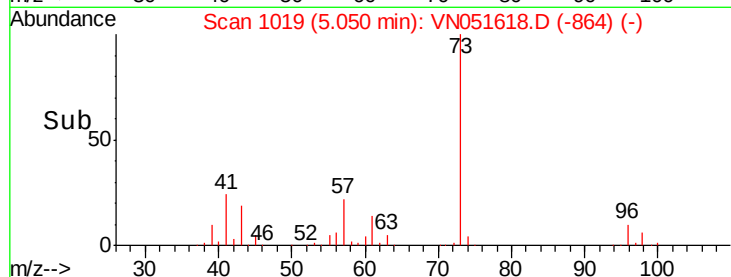
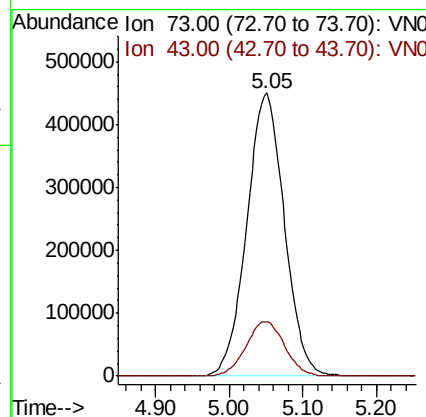
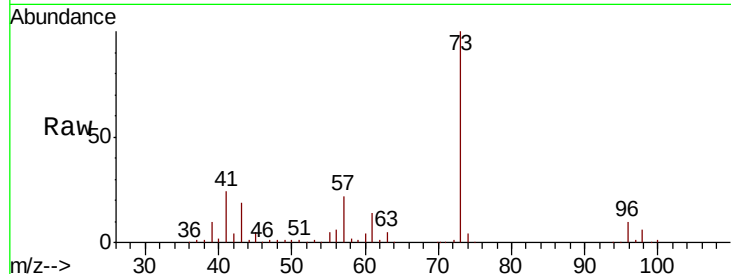
#24
Methyl tert-Butyl Ether
Concen: 104.109 ug/l
RT: 5.05 min Scan# 1019
Delta R.T. -0.00 min
Lab File: VN051618.D
Acq: 28 Sep 2018 16:02

Instrument :
MSVOA_N
ClientSampled :
PT-VOA-WP

Tot Ion: 73 Resp: 1596332
Ion Ratio Lower Upper
73 100
43 19.9 16.1 24.1

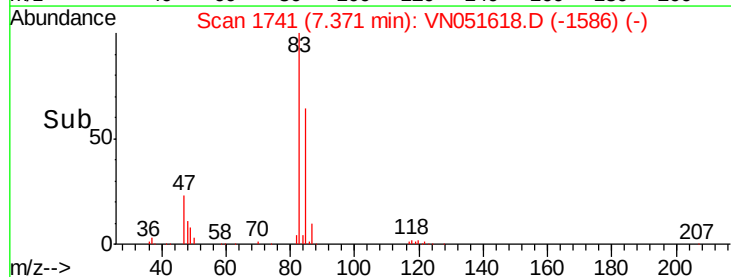
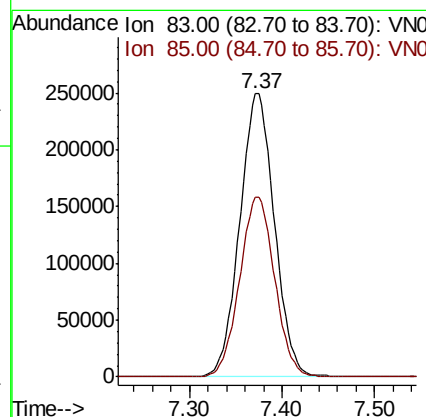
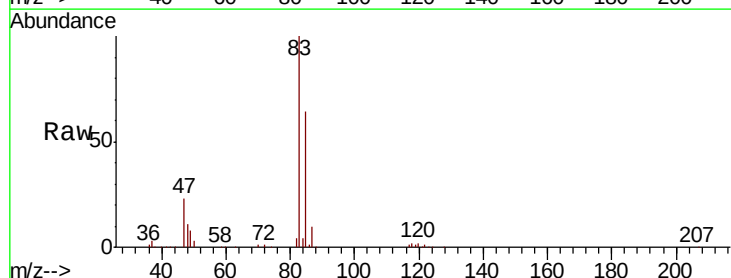
Manual Integrations
APPROVED

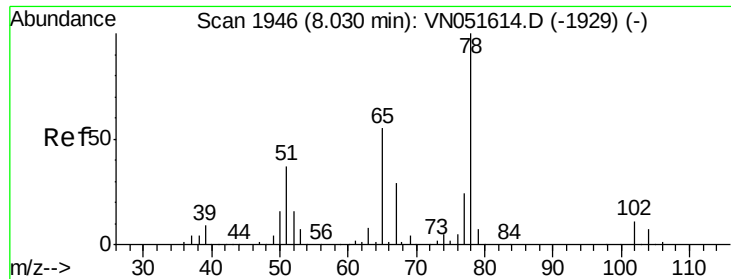
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10/3/2018 5:27:42 PM



#25
Chloroform
Concen: 55.103 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VN051618.D
Acq: 28 Sep 2018 16:02

Tgt Ion: 83 Resp: 646503
Ion Ratio Lower Upper
83 100
85 63.5 51.4 77.0





#27

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN051618.D

Acq: 28 Sep 2018 16:02

Instrument :

MSVOA_N

ClientSampled :

PT-VOA-WP

Tot Ion: 65 Resp: 208243

Ion Ratio Lower Upper

65 100

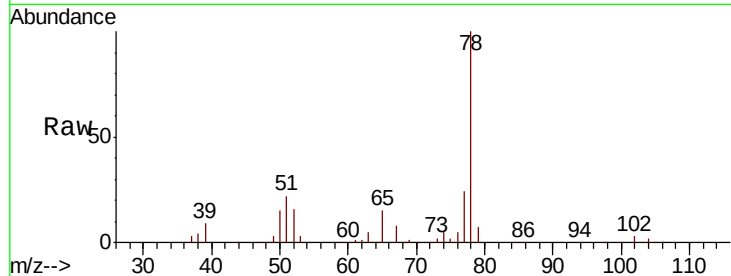
67 54.2 43.1 64.7

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Abundance Ion 65.00 (64.70 to 65.70): VN0

Ion 67.00 (66.70 to 67.70): VN0

8.03

100000

80000

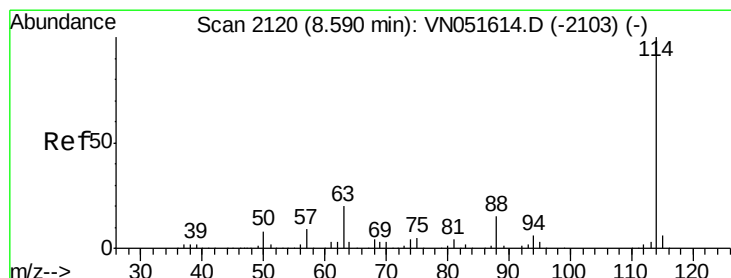
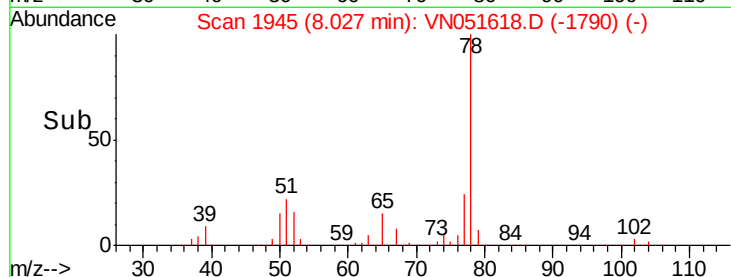
60000

40000

20000

0

Time--> 7.90 8.00 8.10



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VN051618.D

Acq: 28 Sep 2018 16:02

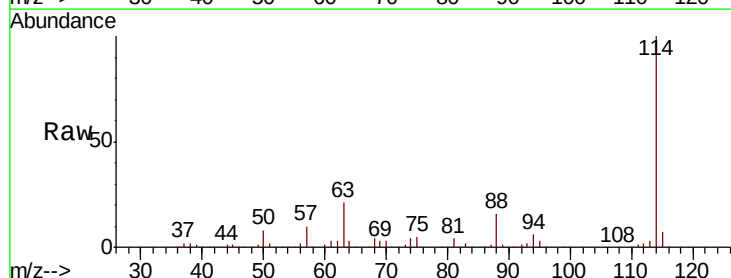
Tgt Ion:114 Resp: 526189

Ion Ratio Lower Upper

114 100

63 21.0 16.4 24.6

88 15.6 12.6 18.8



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 88.00 (87.70 to 88.70): VN0

8.59

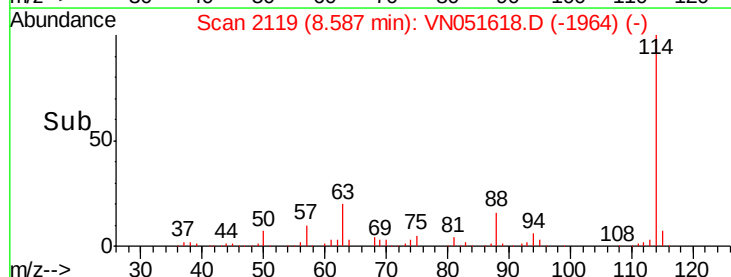
300000

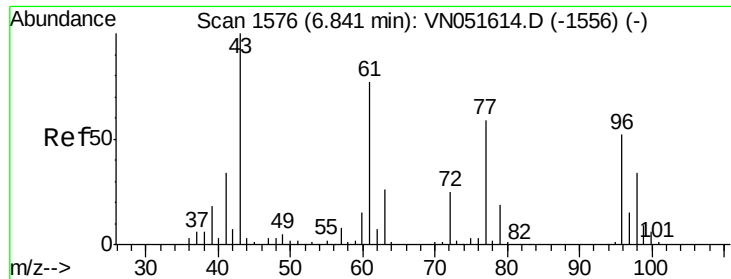
200000

100000

0

Time--> 8.50 8.60 8.70





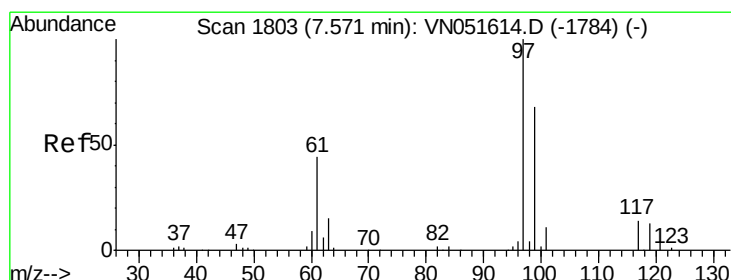
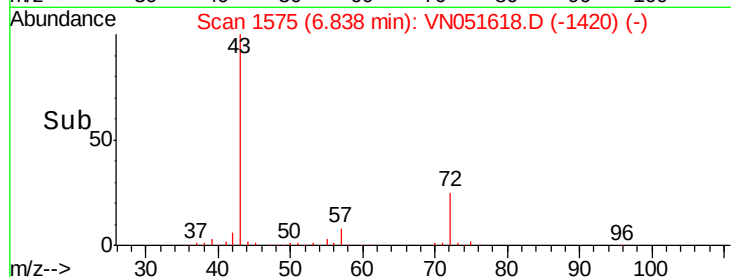
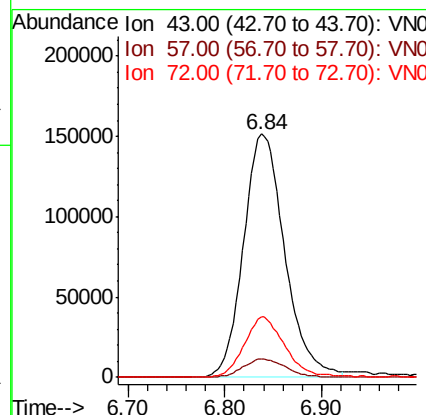
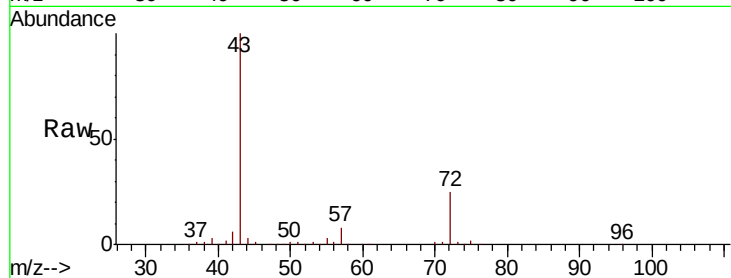
#30
2-Butanone
Concen: 184.028 ug/l
RT: 6.84 min Scan# 1575
Delta R.T. -0.00 min
Lab File: VN051618.D
Acq: 28 Sep 2018 16:02

Instrument :
MSVOA_N
ClientSampleId :
PT-VOA-WP

Tot Ion	Ratio	Lower	Upper
43	100		
57	7.9	6.6	10.0
72	24.3	20.8	31.2

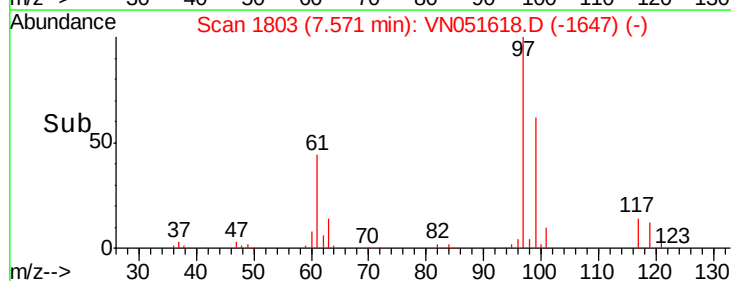
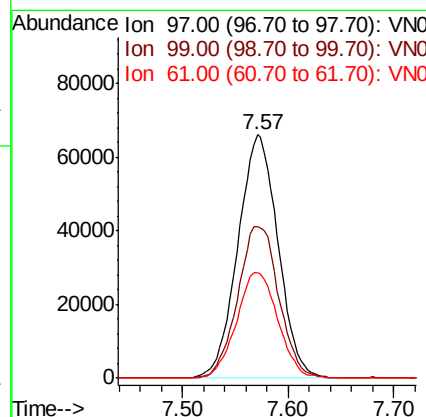
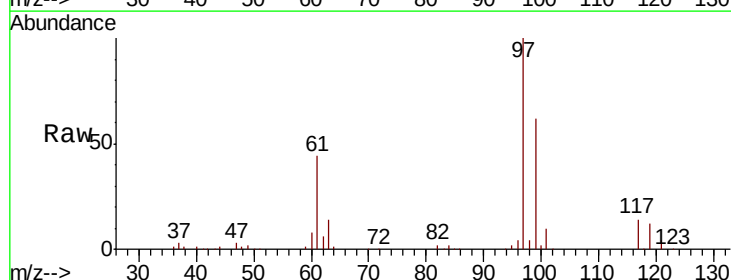
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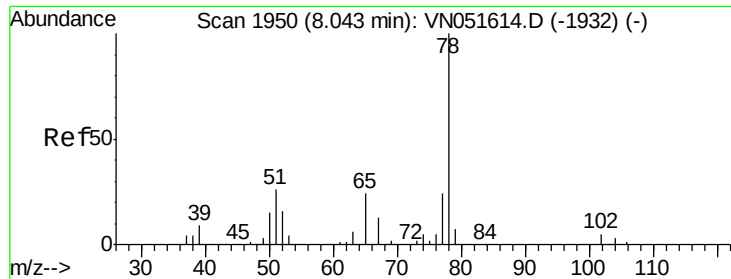
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#32
1,1,1-Trichloroethane
Concen: 17.334 ug/l
RT: 7.57 min Scan# 1803
Delta R.T. 0.00 min
Lab File: VN051618.D
Acq: 28 Sep 2018 16:02

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.1	52.2	78.4
61	44.8	36.2	54.4





#34

Benzene

Concen: 84.438 ug/l

RT: 8.04 min Scan# 1950

Delta R.T. 0.00 min

Lab File: VN051618.D

Acq: 28 Sep 2018 16:02

Instrument :

MSVOA_N

ClientSampleId :

PT-VOA-WP

Tot Ion: 78 Resp: 2247755

Ion Ratio Lower Upper

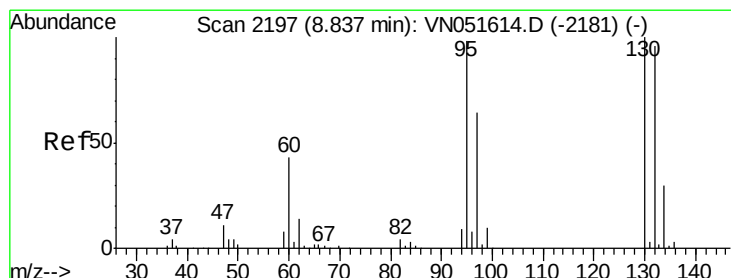
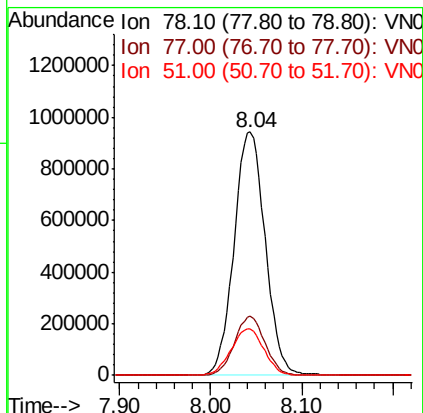
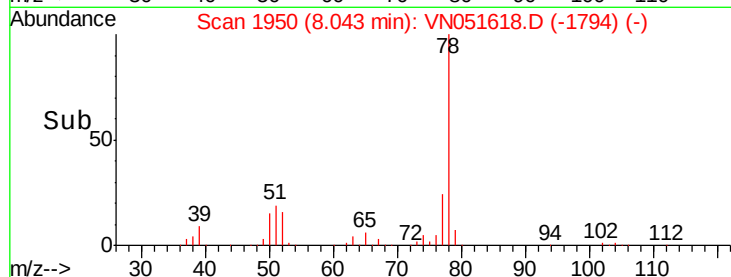
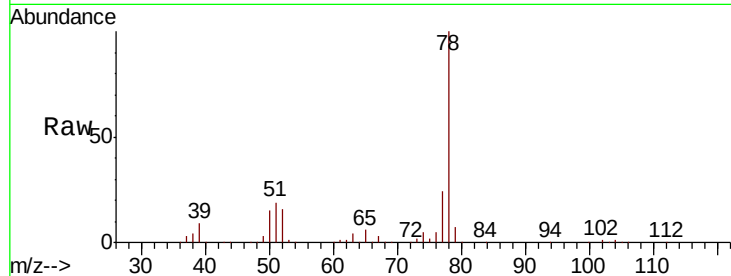
78 100

77 24.2 19.3 28.9

51 19.0 20.8 31.2#

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#37

Trichloroethene

Concen: 74.456 ug/l

RT: 8.83 min Scan# 2196

Delta R.T. -0.00 min

Lab File: VN051618.D

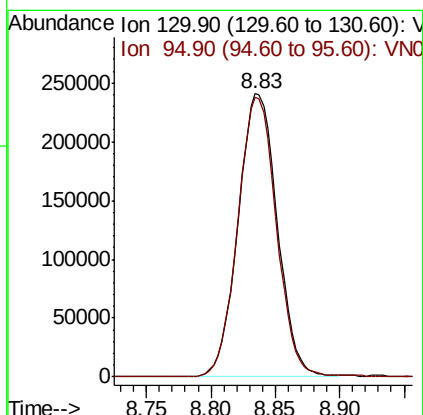
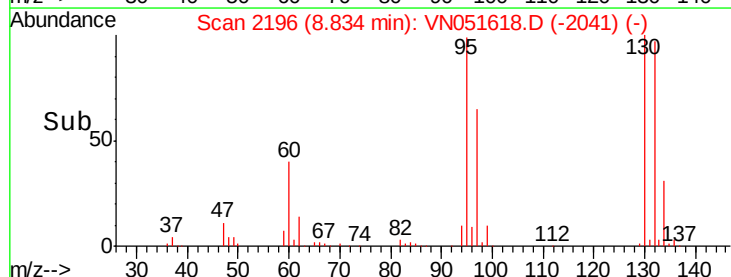
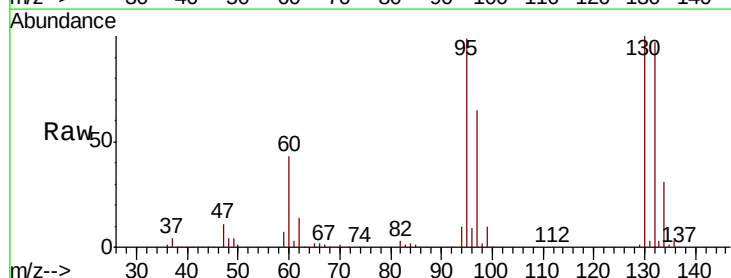
Acq: 28 Sep 2018 16:02

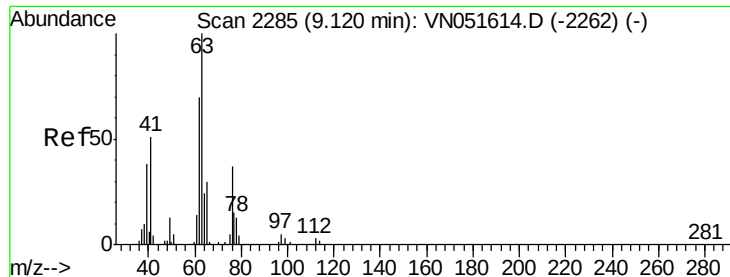
Tgt Ion:130 Resp: 508872

Ion Ratio Lower Upper

130 100

95 98.7 78.4 117.6





#39

1,2-Dichloropropane

Concen: 92.824 ug/l

RT: 9.12 min Scan# 2285

Delta R.T. 0.00 min

Lab File: VN051618.D

Acq: 28 Sep 2018 16:02

Instrument :

MSVOA_N

ClientSampled :

PT-VOA-WP

Tot Ion: 63 Resp: 677079

Ion Ratio Lower Upper

63 100

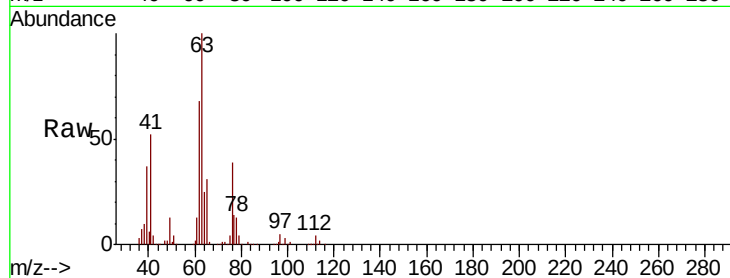
65 30.8 24.4 36.6

Manual Integrations

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Abundance Ion 63.00 (62.70 to 63.70): VN0

Ion 65.00 (64.70 to 65.70): VN0

9.12

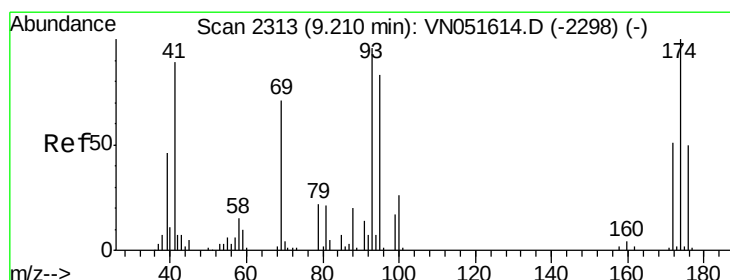
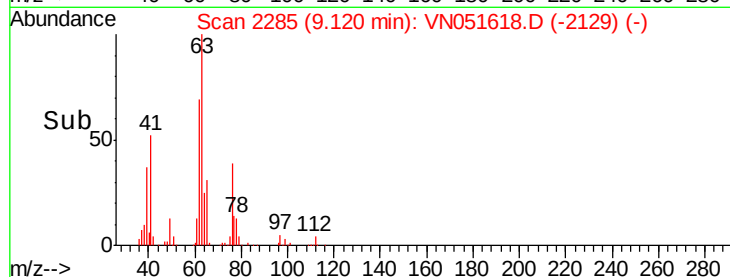
300000

200000

100000

0

Time-->



#40

Dibromomethane

Concen: 124.133 ug/l

RT: 9.21 min Scan# 2313

Delta R.T. 0.00 min

Lab File: VN051618.D

Acq: 28 Sep 2018 16:02

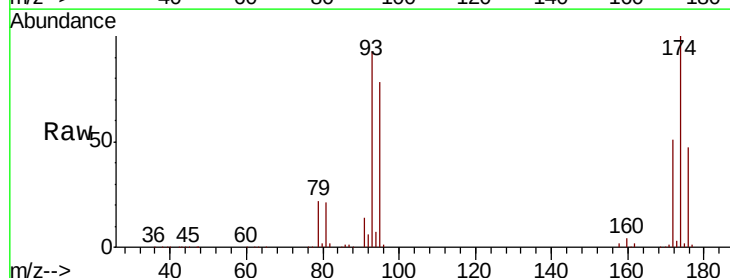
Tgt Ion: 93 Resp: 502979

Ion Ratio Lower Upper

93 100

95 83.5 0.0 171.0

174 107.0 0.0 212.0



Abundance Ion 93.00 (92.70 to 93.70): VN0

Ion 95.00 (94.70 to 95.70): VN0

Ion 174.00 (173.70 to 174.70): V

9.21

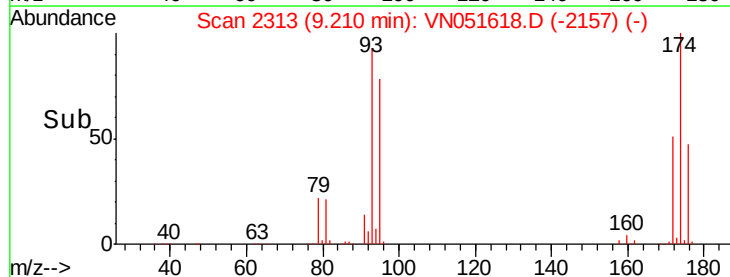
300000

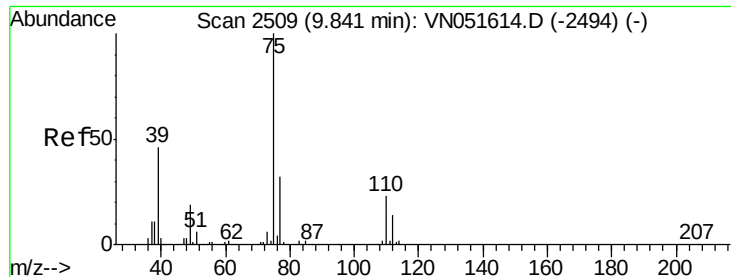
200000

100000

0

Time-->





#49

cis-1,3-Dichloropropene

Concen: 110.981 ug/l

RT: 9.84 min Scan# 2509

Delta R.T. 0.00 min

Lab File: VN051618.D

Acq: 28 Sep 2018 16:02

Instrument :

MSVOA_N

ClientSampleId :

PT-VOA-WP

Tot Ion: 75 Resp: 1145412

Ion Ratio Lower Upper

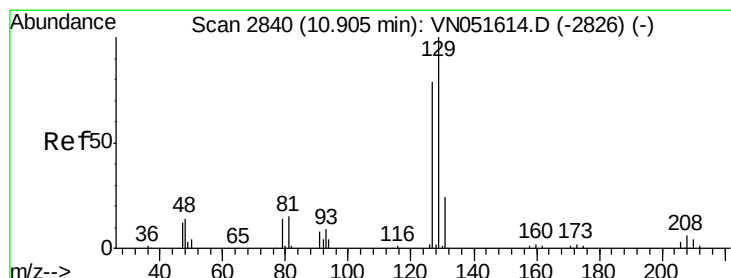
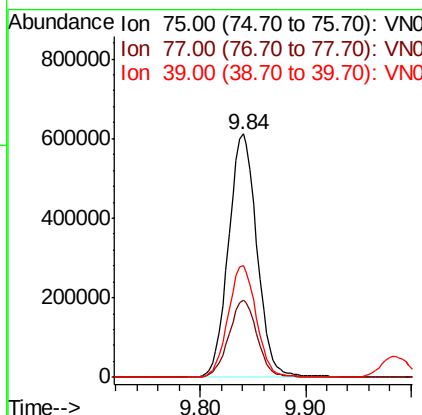
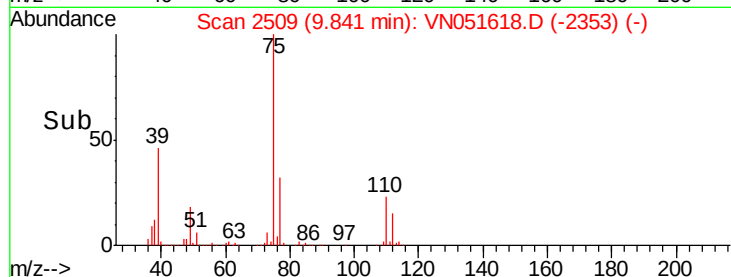
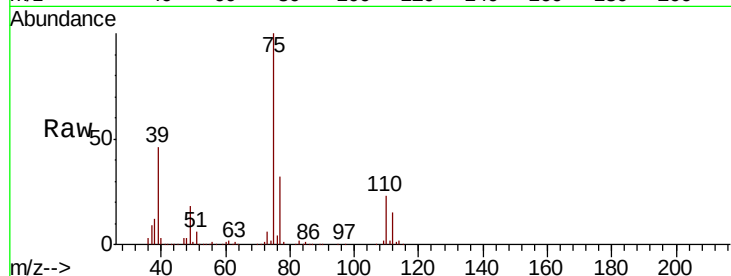
75 100

77 31.9 25.4 38.0

39 45.7 36.6 55.0

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#53

Dibromochloromethane

Concen: 69.853 ug/l

RT: 10.90 min Scan# 2839

Delta R.T. -0.00 min

Lab File: VN051618.D

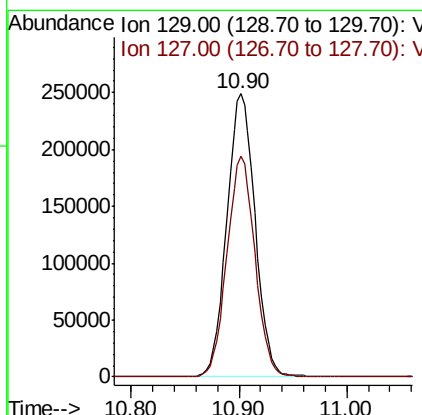
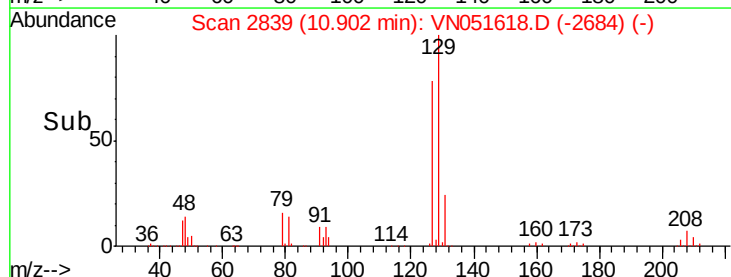
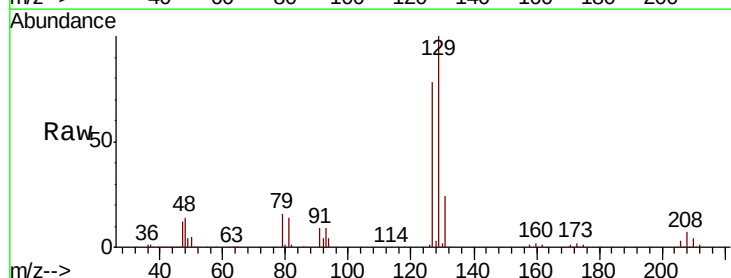
Acq: 28 Sep 2018 16:02

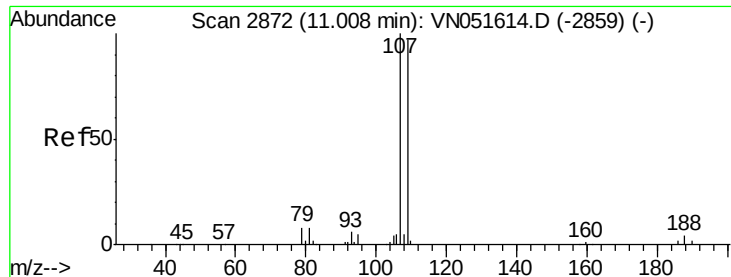
Tgt Ion: 129 Resp: 455563

Ion Ratio Lower Upper

129 100

127 77.1 38.9 116.7





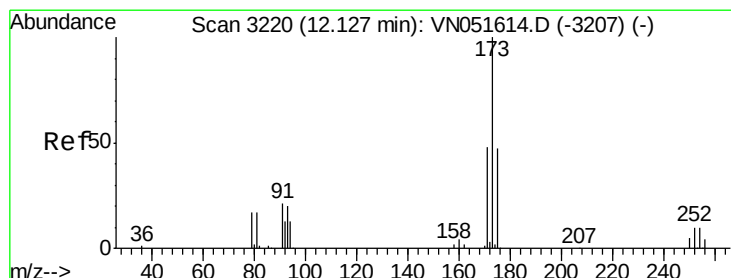
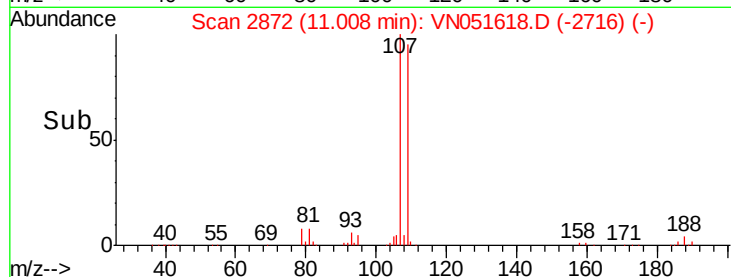
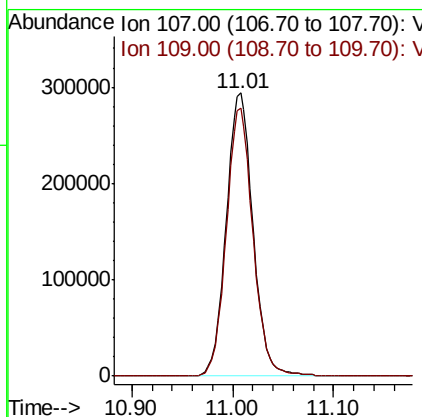
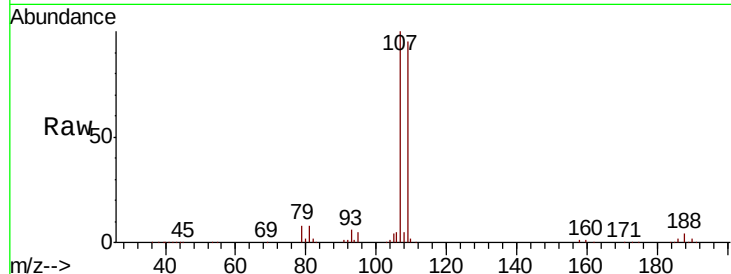
#54
 1,2-Dibromoethane
 Concen: 99.009 ug/l
 RT: 11.01 min Scan# 2872
 Delta R.T. 0.00 min
 Lab File: VN051618.D
 Acq: 28 Sep 2018 16:02

Instrument :
 MSVOA_N
 ClientSampleId :
 PT-VOA-WP

Tot Ion	Ratio	Lower	Upper
107	100		
109	94.3	76.5	114.7

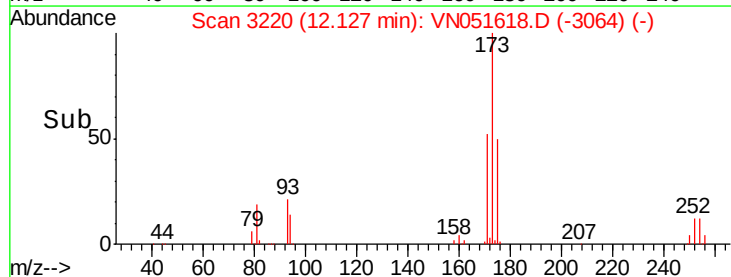
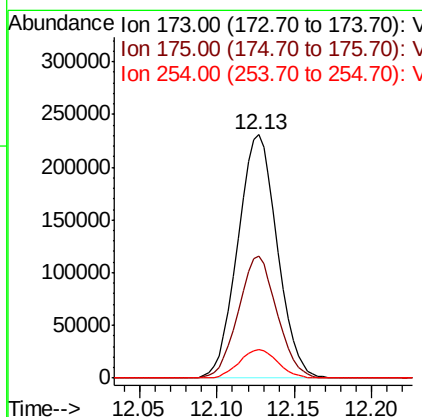
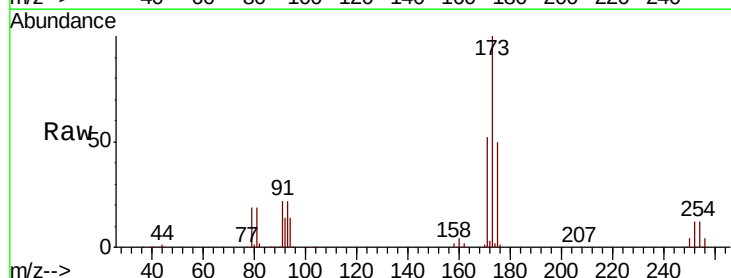
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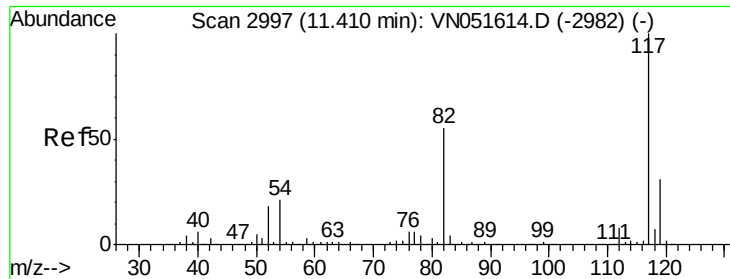
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#56
 Bromoform
 Concen: 94.687 ug/l
 RT: 12.13 min Scan# 3220
 Delta R.T. 0.00 min
 Lab File: VN051618.D
 Acq: 28 Sep 2018 16:02

Tgt Ion	Ratio	Lower	Upper
173	100		
175	49.2	39.0	58.4
254	11.6	8.7	13.1





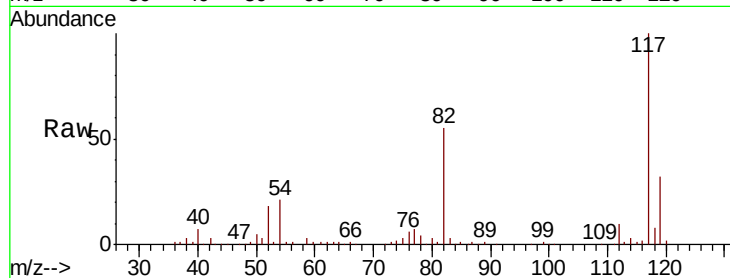
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN051618.D
Acq: 28 Sep 2018 16:02

Instrument :
MSVOA_N
ClientSampled :
PT-VOA-WP

Tot Ion	Ratio	Lower	Upper
117	100		
82	55.5	44.2	66.2
119	32.3	25.2	37.8

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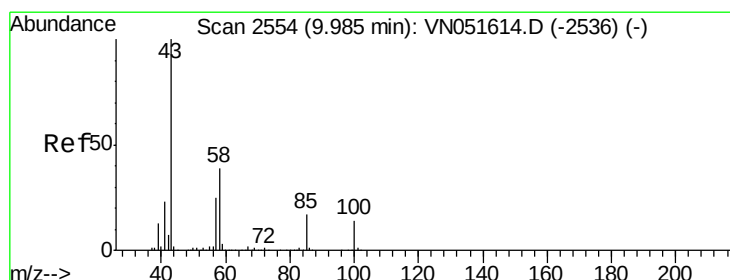
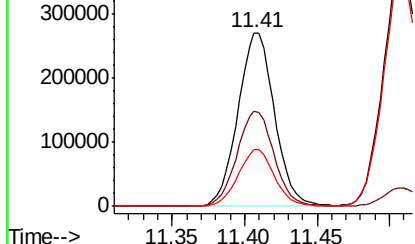
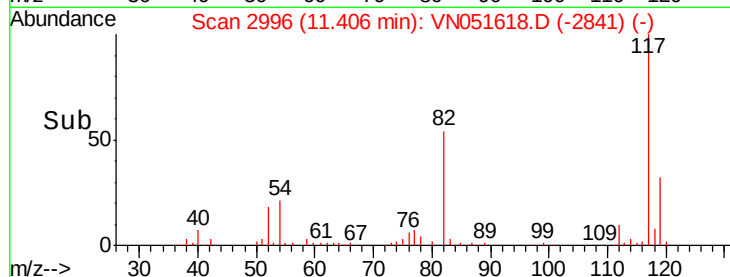


Abundance

Ion 117.00 (116.70 to 117.70): V

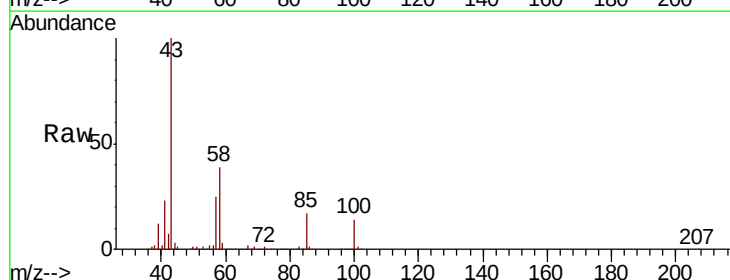
Ion 82.00 (81.70 to 82.70): V

Ion 119.00 (118.70 to 119.70): V



#58
4-Methyl-2-Pentanone
Concen: 145.794 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN051618.D
Acq: 28 Sep 2018 16:02

Tgt Ion	Ratio	Lower	Upper
43	100		
58	38.2	31.0	46.4
85	16.7	13.4	20.2

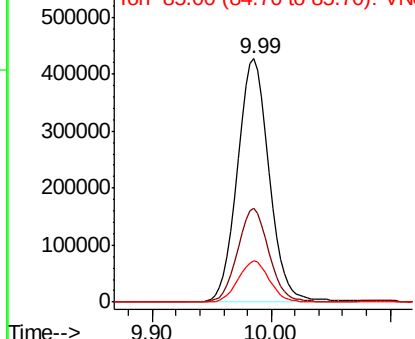
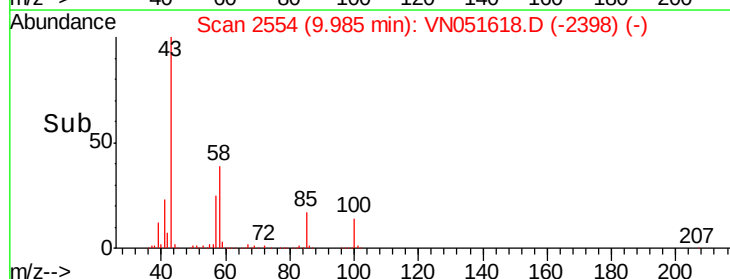


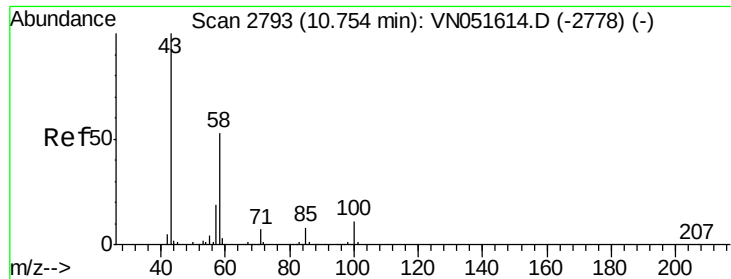
Abundance

Ion 43.00 (42.70 to 43.70): V

Ion 58.00 (57.70 to 58.70): V

Ion 85.00 (84.70 to 85.70): V





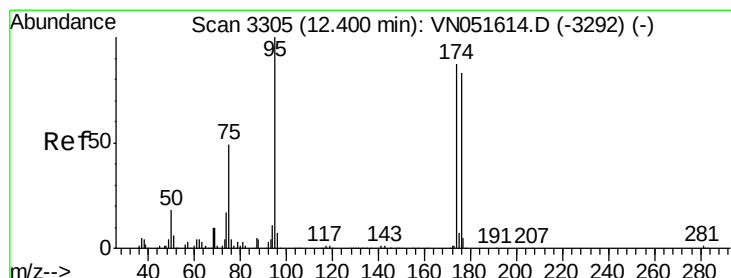
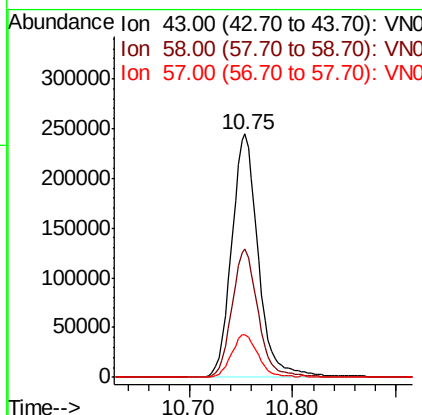
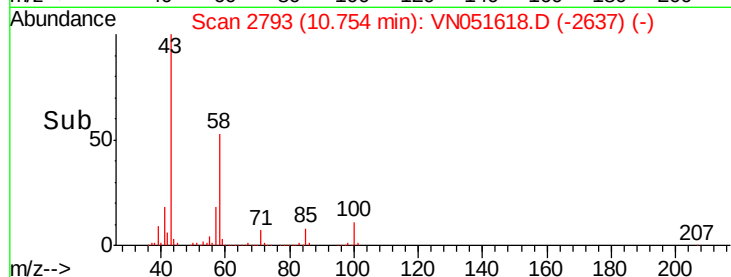
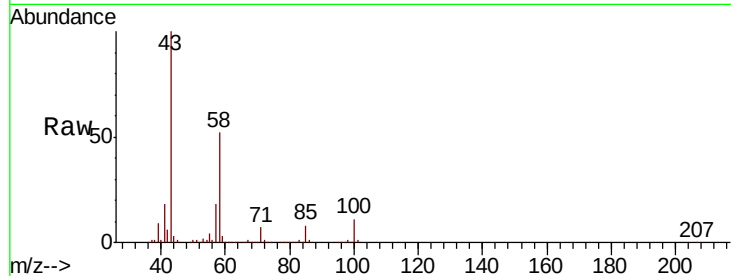
#59
2-Hexanone
Concen: 123.216 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN051618.D
Acq: 28 Sep 2018 16:02

Instrument :
MSVOA_N
ClientSampled :
PT-VOA-WP

Tot Ion	Ratio	Lower	Upper
43	100		
58	52.3	41.5	62.3
57	17.6	14.2	21.4

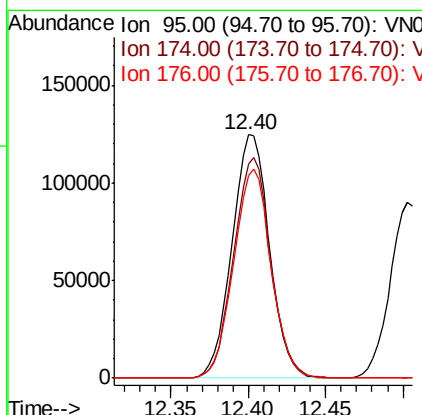
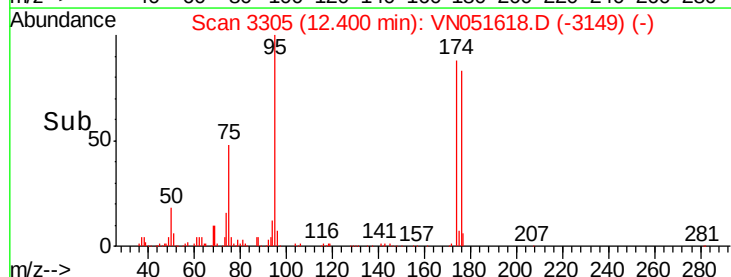
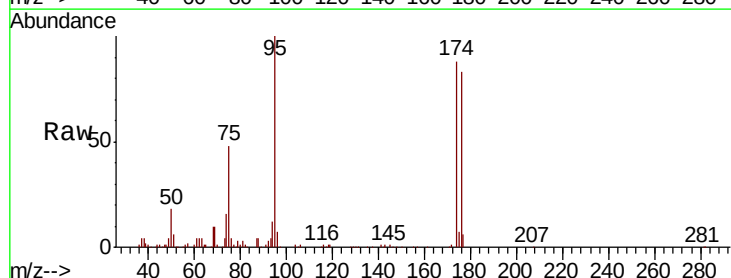
Manual Integrations
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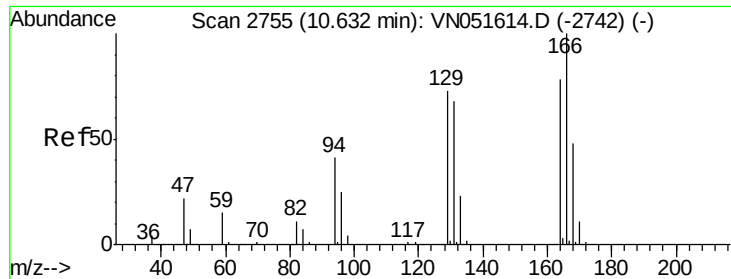
MMDadoda
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#60
4-Bromofluorobenzene
Concen: 123.216 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN051618.D
Acq: 28 Sep 2018 16:02

Tgt Ion	Ratio	Lower	Upper
95	100		
174	89.3	71.2	106.8
176	85.7	67.8	101.8





#61

Tetrachloroethene

Concen: 52.076 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. 0.00 min

Lab File: VN051618.D

Acq: 28 Sep 2018 16:02

Instrument :

MSVOA_N

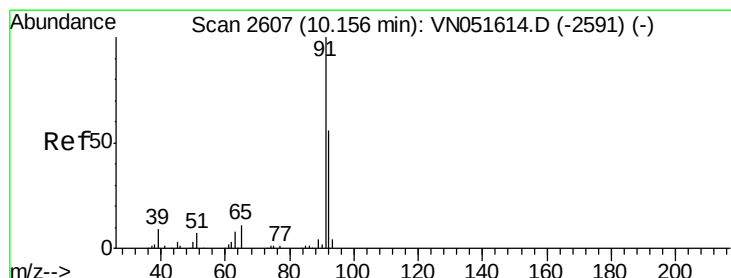
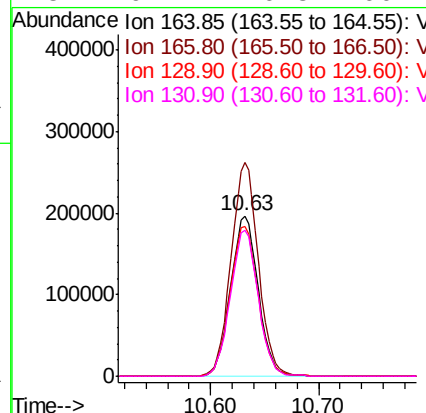
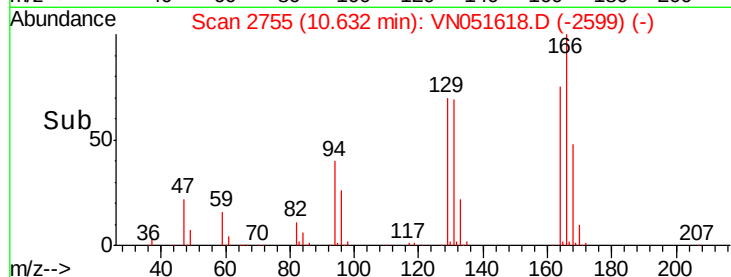
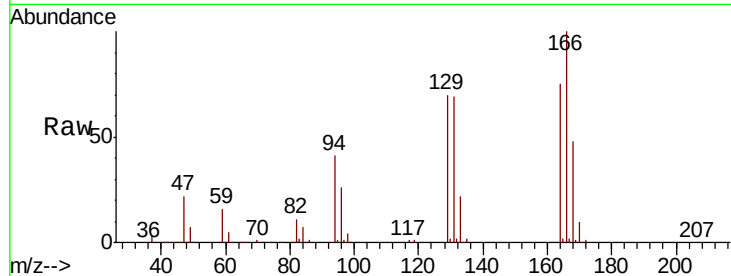
ClientSampled :

PT-VOA-WP

Tot Ion	Ratio	Resp	Lower	Upper
164	100			
166	133.0	103.1	154.7	
129	93.5	75.3	112.9	
131	91.1	70.8	106.2	

Manual Integrations
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#62

Toluene

Concen: 53.115 ug/l

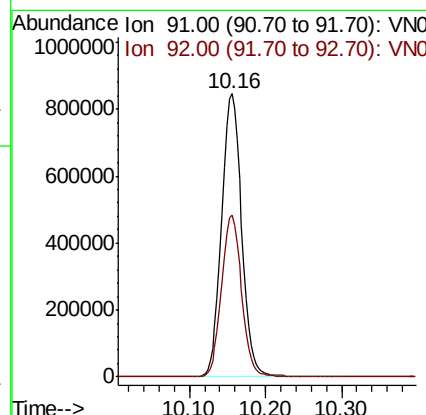
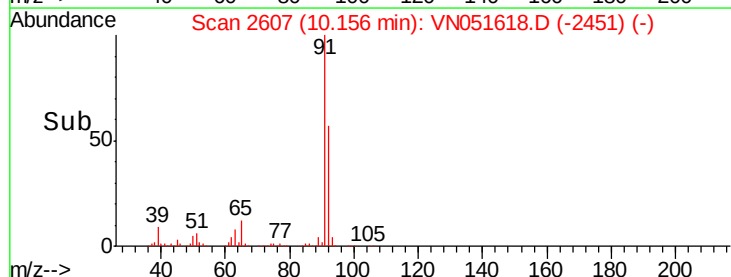
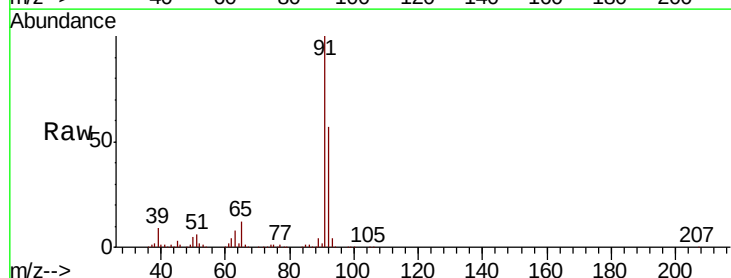
RT: 10.16 min Scan# 2607

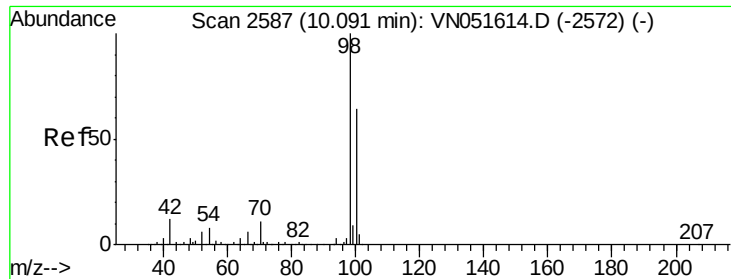
Delta R.T. 0.00 min

Lab File: VN051618.D

Acq: 28 Sep 2018 16:02

Tgt Ion	Ratio	Resp	Lower	Upper
91	100			
92	57.1	45.3	67.9	





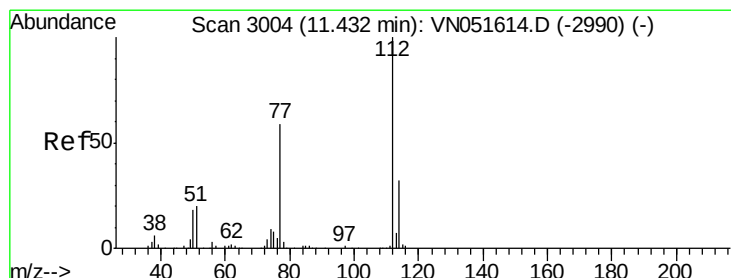
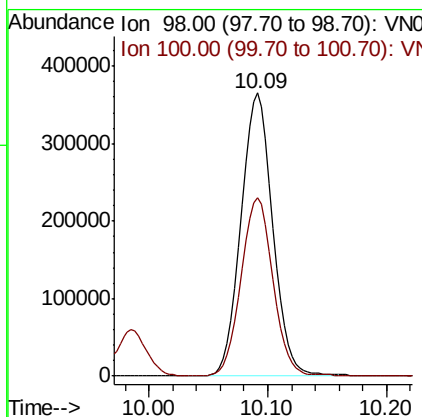
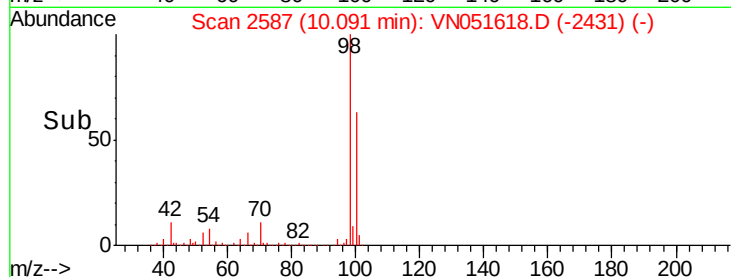
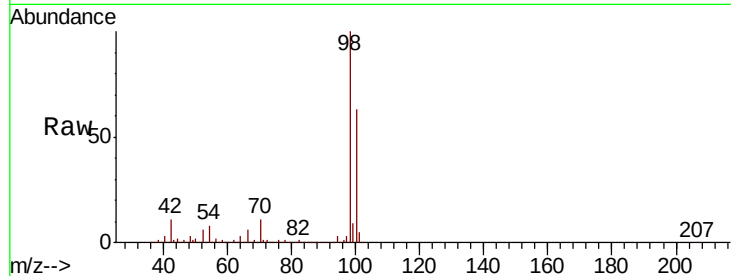
#63
Toluene-d8
Concen: 53.115 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN051618.D
Acq: 28 Sep 2018 16:02

Instrument :
MSVOA_N
ClientSampleId :
PT-VOA-WP

Tot Ion: 98 Resp: 674745
Ion Ratio Lower Upper
98 100
100 63.4 51.4 77.0

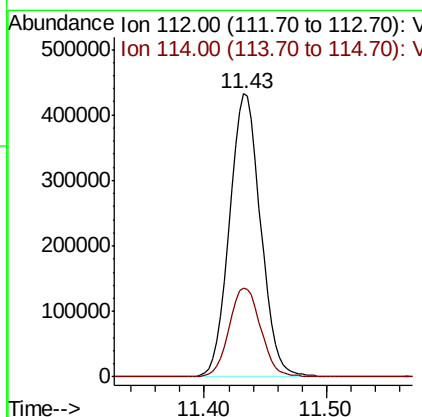
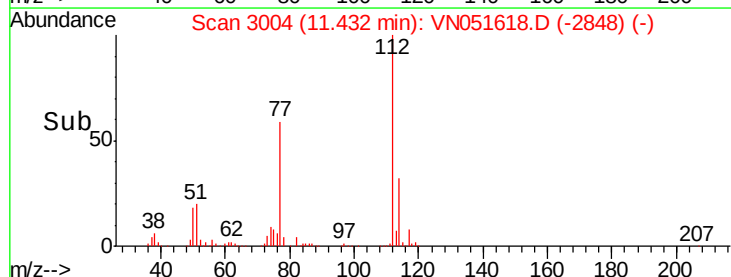
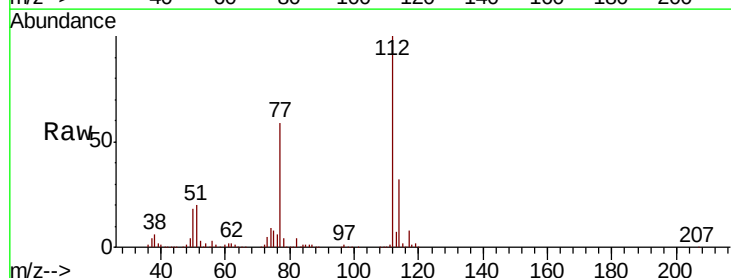
Manual Integrations
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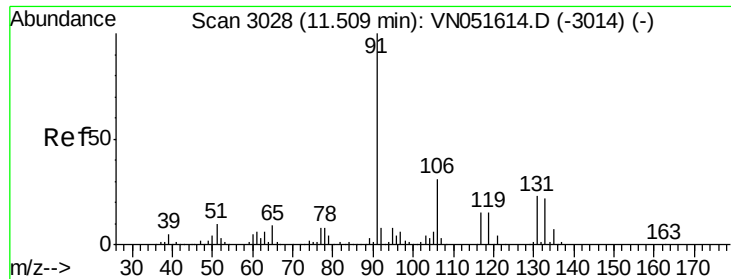
MMDadoda
10/3/2018 5:27:42 PM



#64
Chlorobenzene
Concen: 43.584 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN051618.D
Acq: 28 Sep 2018 16:02

Tgt Ion: 112 Resp: 769222
Ion Ratio Lower Upper
112 100
114 31.6 25.9 38.9





#65

1,1,1,2-Tetrachloroethane

Concen: 140.460 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN051618.D

Acq: 28 Sep 2018 16:02

Instrument :

MSVOA_N

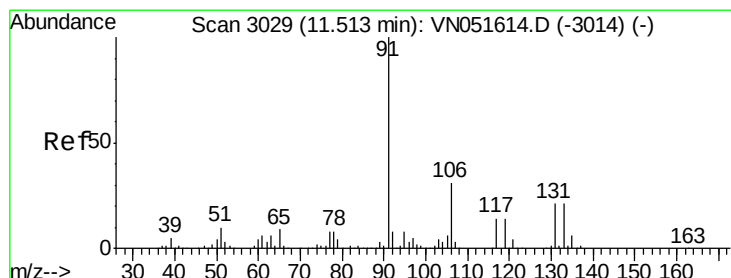
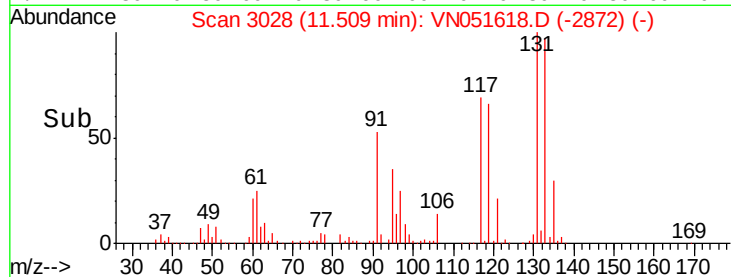
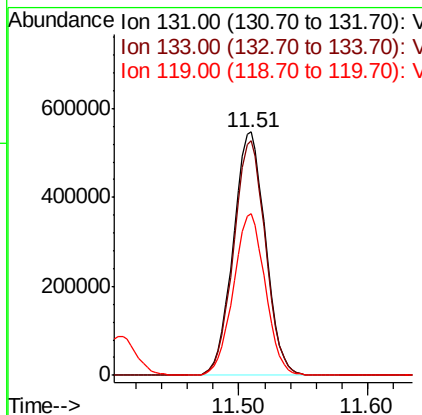
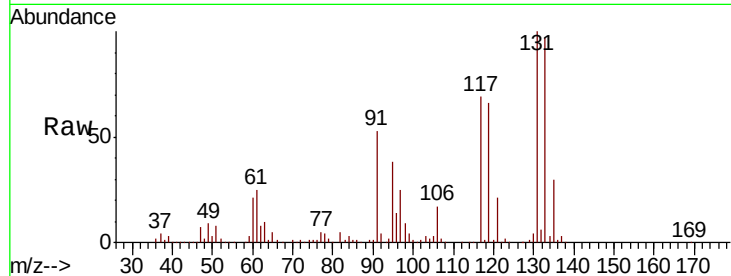
ClientSampleId :

PT-VOA-WP

Tot Ion	Ratio	Resp	Lower	Upper
131	100	946599		
133	95.7	0.0	193.0	
119	66.0	0.0	135.0	

Manual Integrations
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#66

Ethyl Benzene

Concen: 16.391 ug/l

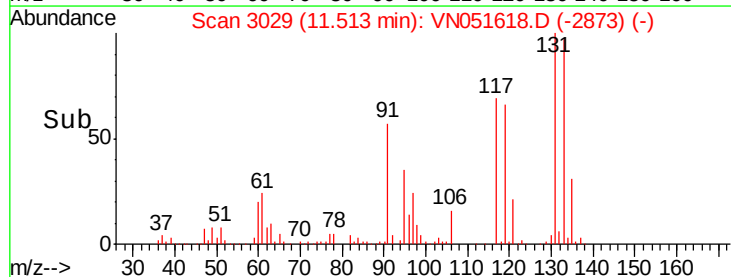
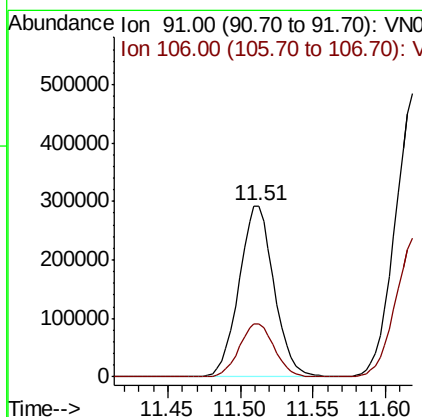
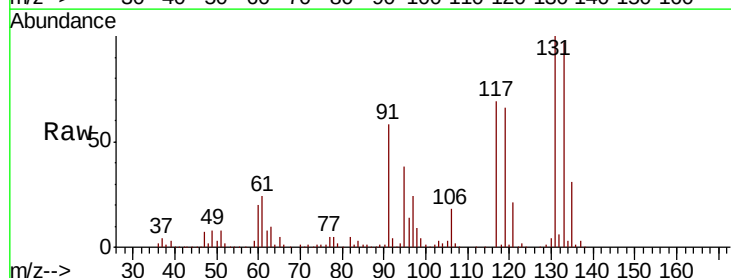
RT: 11.51 min Scan# 3029

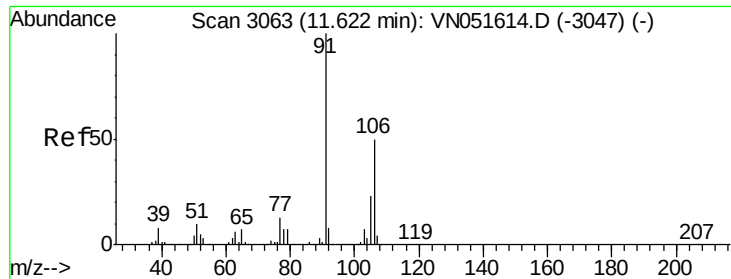
Delta R.T. 0.00 min

Lab File: VN051618.D

Acq: 28 Sep 2018 16:02

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	489675		
106	31.0	25.0	37.4	





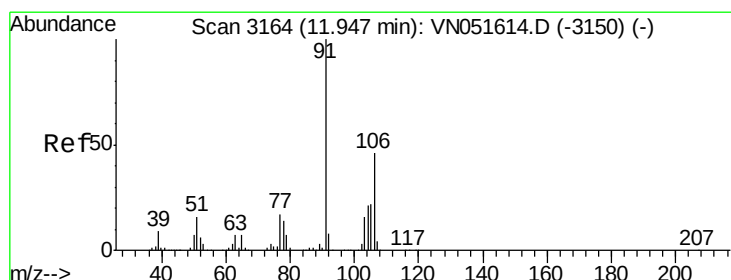
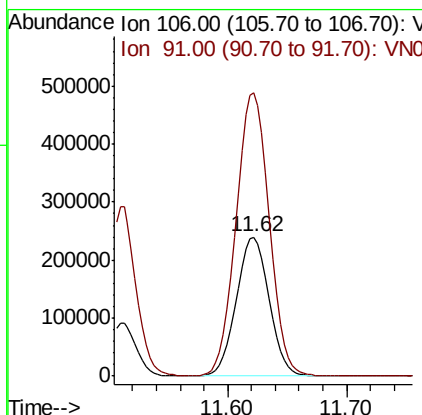
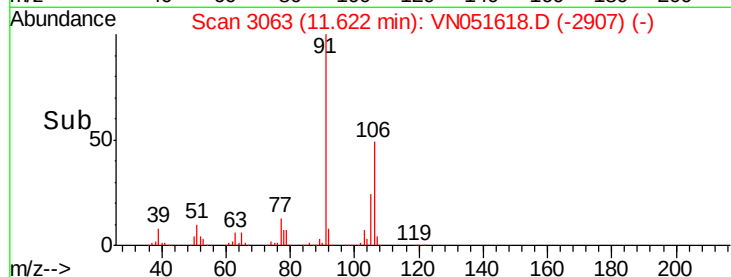
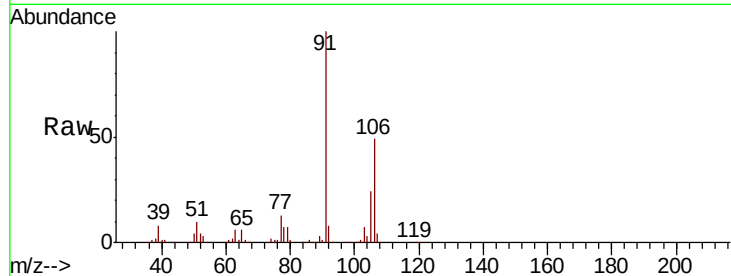
#67
m/p-Xylenes
Concen: 39.812 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN051618.D
Acq: 28 Sep 2018 16:02

Instrument :
MSVOA_N
ClientSampled :
PT-VOA-WP

Tot Ion:106 Resp: 458392
Ion Ratio Lower Upper
106 100
91 205.0 161.5 242.3

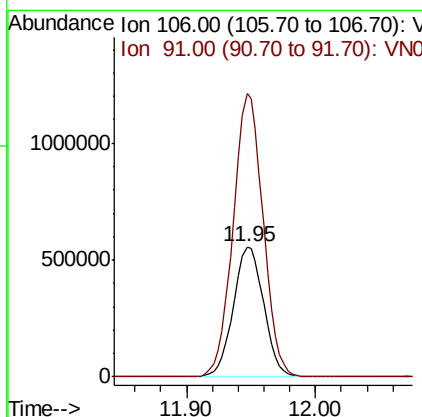
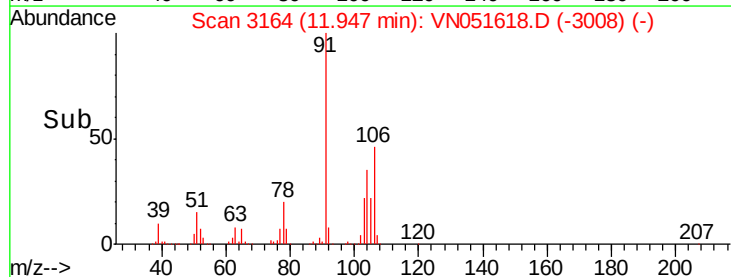
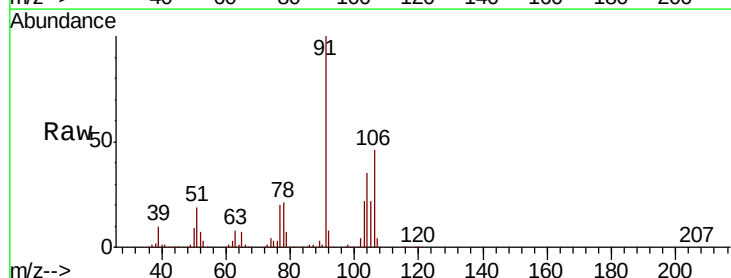
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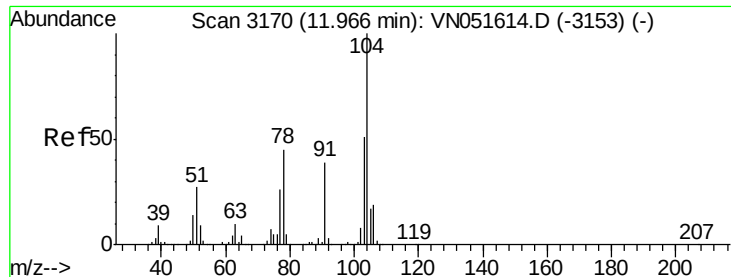
MMDadoda
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#68
o-Xylene
Concen: 83.069 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN051618.D
Acq: 28 Sep 2018 16:02

Tgt Ion:106 Resp: 913021
Ion Ratio Lower Upper
106 100
91 214.0 109.7 329.1





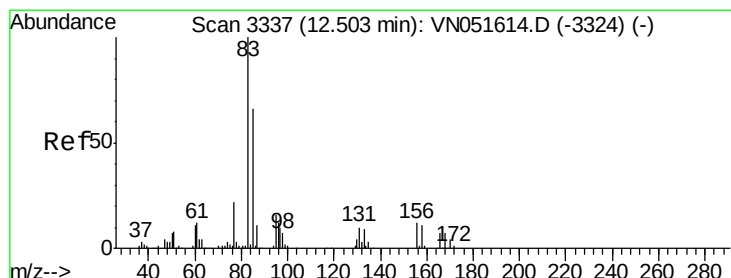
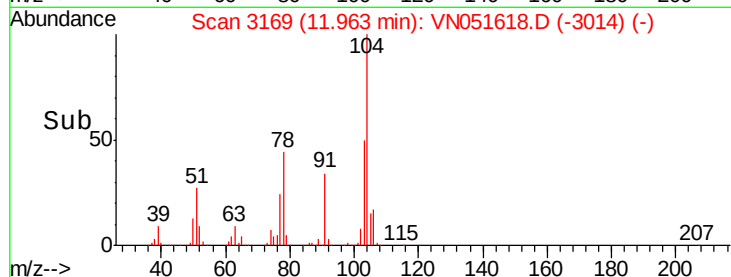
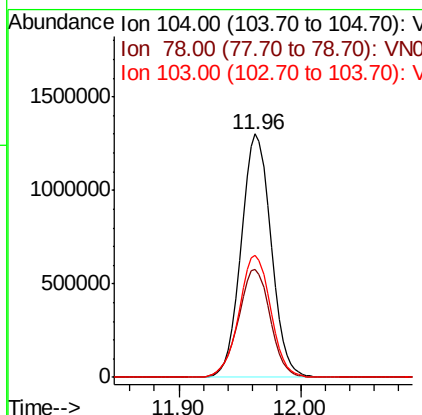
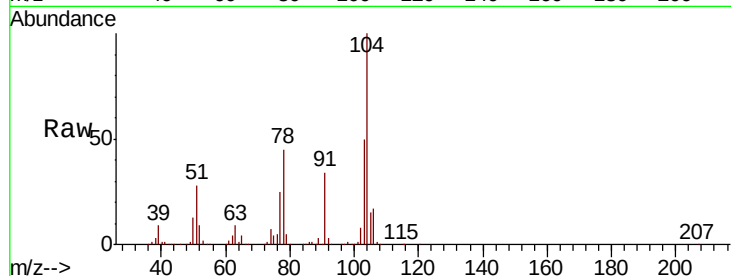
#69
Stvrene
Concen: 127.235 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN051618.D
Acq: 28 Sep 2018 16:02

Instrument :
MSVOA_N
ClientSampleId :
PT-VOA-WP

Tot Ion	Ratio	Lower	Upper
104	100		
78	47.6	40.3	60.5
103	53.2	45.7	68.5

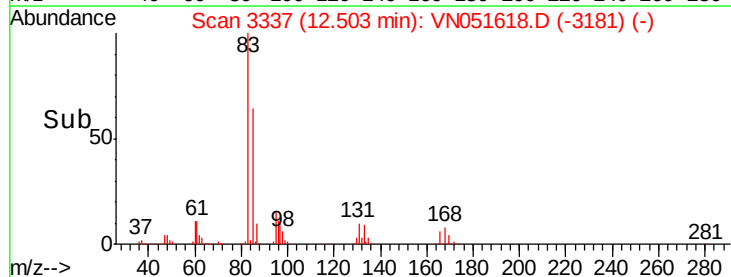
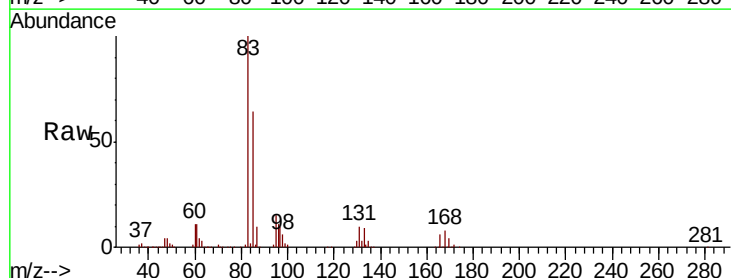
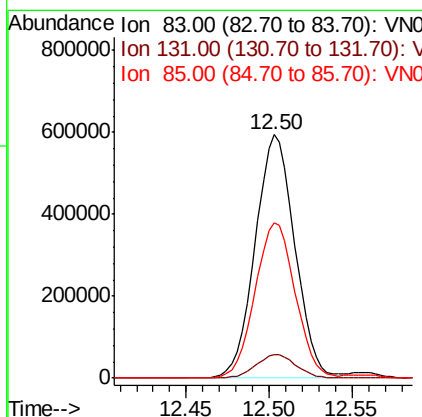
Manual Integrations
APPROVED

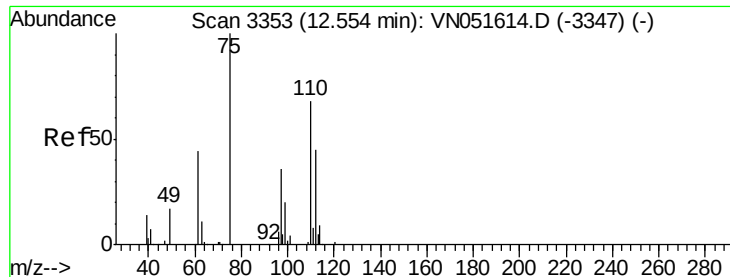
MMDadoda
10/3/2018 5:27:42 PM



#71
1,1,2,2-Tetrachloroethane
Concen: 139.678 ug/l
RT: 12.50 min Scan# 3337
Delta R.T. 0.00 min
Lab File: VN051618.D
Acq: 28 Sep 2018 16:02

Tgt Ion	Ratio	Lower	Upper
83	100		
131	9.7	5.2	15.6
85	64.8	32.0	96.2





#72

1,2,3-Trichloropropane

Concen: 135.977 ug/l

RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

Lab File: VN051618.D

Acq: 28 Sep 2018 16:02

Instrument :

MSVOA_N

ClientSampled :

PT-VOA-WP

Tot Ion: 75 Resp: 824638

Ion Ratio Lower Upper

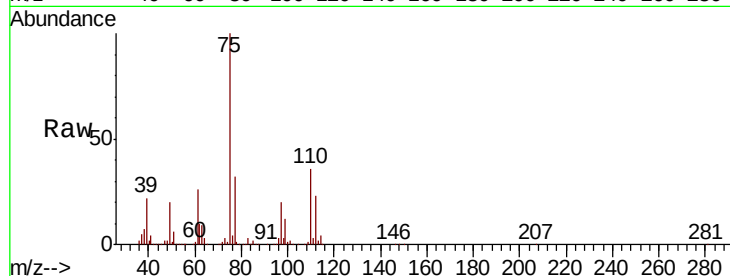
75 100

77 32.0 0.0 492.2

Manual Integrations
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Abundance Ion 75.00 (74.70 to 75.70): VN051618.D (-3347) (-)

Ion 77.00 (76.70 to 77.70): VN051618.D (-3347) (-)

12.55

500000

400000

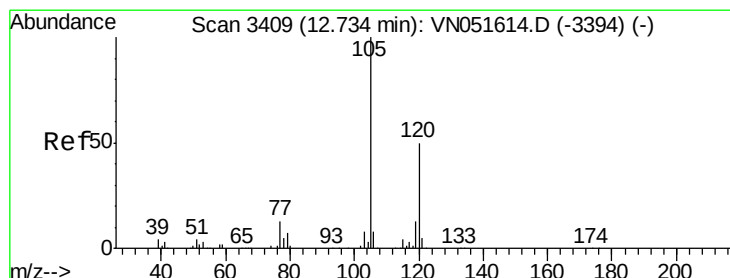
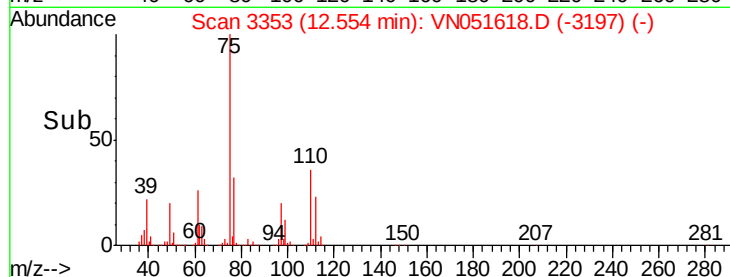
300000

200000

100000

0

Time-->



#76

1,3,5-Trimethylbenzene

Concen: 51.659 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN051618.D

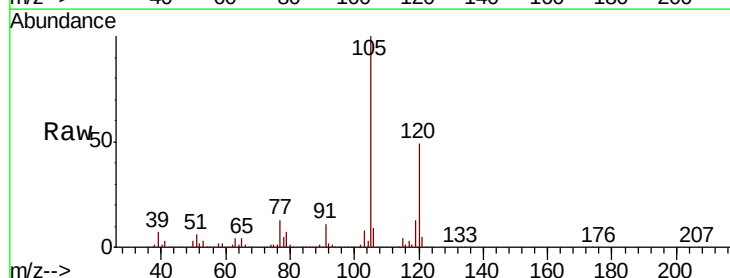
Acq: 28 Sep 2018 16:02

Tgt Ion: 105 Resp: 1265552

Ion Ratio Lower Upper

105 100

120 49.0 0.0 99.8



Abundance Ion 105.00 (104.70 to 105.70): VN051618.D (-3394) (-)

Ion 120.00 (119.70 to 120.70): VN051618.D (-3394) (-)

12.73

800000

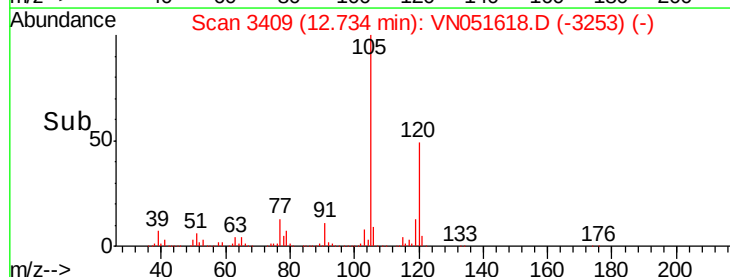
600000

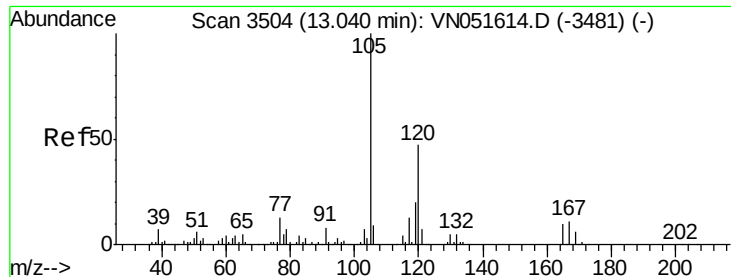
400000

200000

0

Time-->





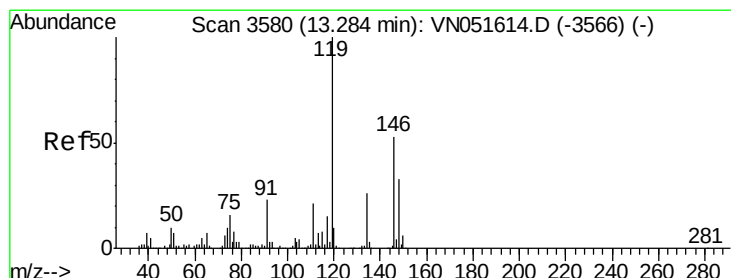
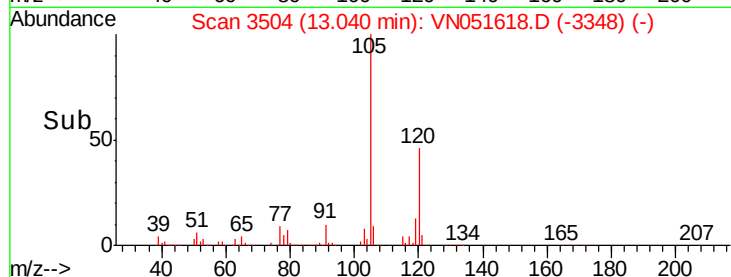
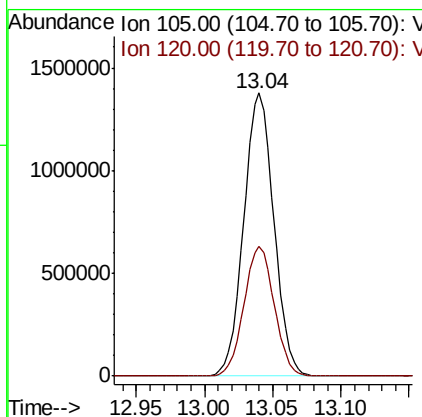
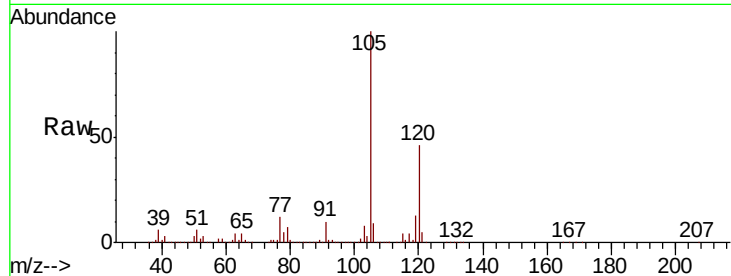
#80
 1,2,4-Trimethylbenzene
 Concen: 86.216 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.00 min
 Lab File: VN051618.D
 Acq: 28 Sep 2018 16:02

Instrument :
 MSVOA_N
 ClientSampled :
 PT-VOA-WP

Tot Ion:105 Resp: 2109642
 Ion Ratio Lower Upper
 105 100
 120 46.0 0.0 91.6

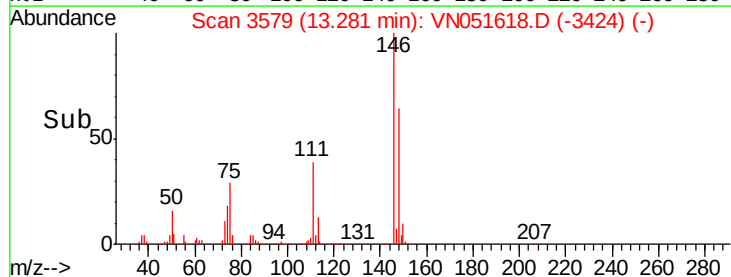
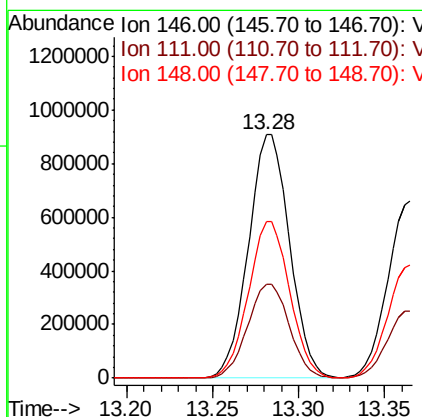
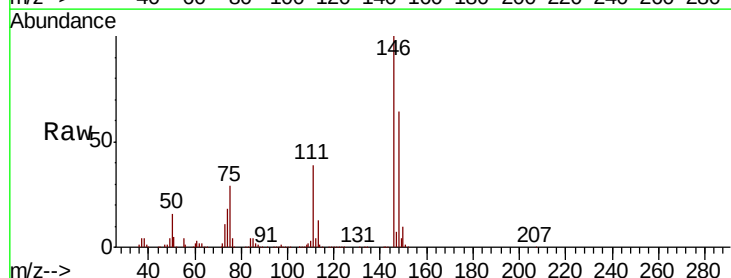
Manual Integrations
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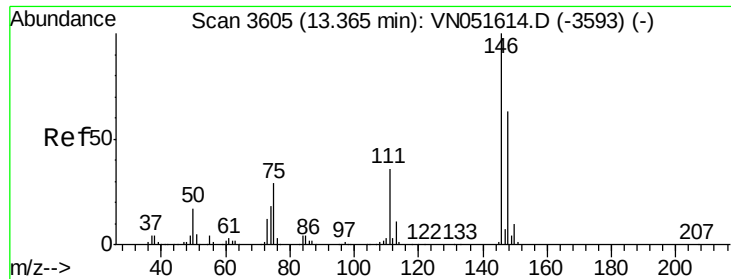
MMDadoda
 10/3/2018 5:27:42 PM



#83
 1,3-Dichlorobenzene
 Concen: 118.527 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. -0.00 min
 Lab File: VN051618.D
 Acq: 28 Sep 2018 16:02

Tgt Ion:146 Resp: 1506907
 Ion Ratio Lower Upper
 146 100
 111 39.2 19.9 59.6
 148 64.4 32.4 97.2





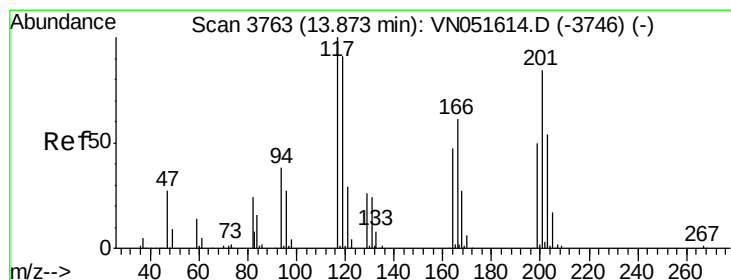
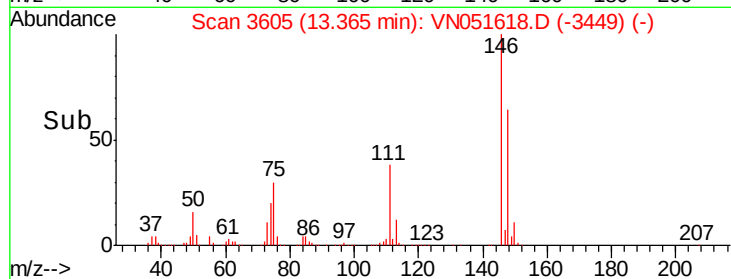
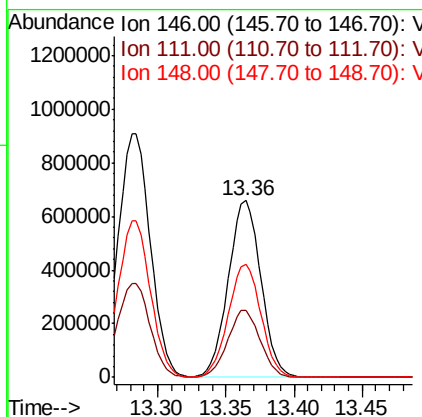
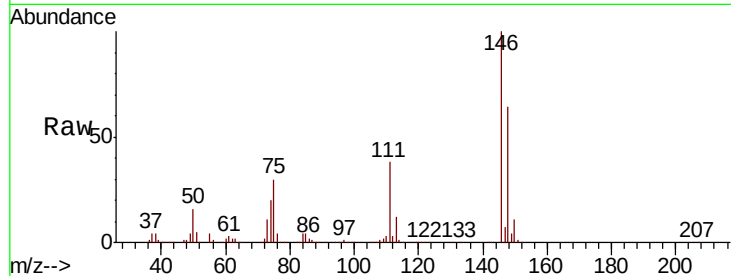
#84
 1,4-Dichlorobenzene
 Concen: 91.579 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN051618.D
 Acq: 28 Sep 2018 16:02

Instrument :
 MSVOA_N
 ClientSampled :
 PT-VOA-WP

Tot Ion:146 Resp: 1094450
 Ion Ratio Lower Upper
 146 100
 111 37.8 18.6 55.8
 148 64.2 32.1 96.5

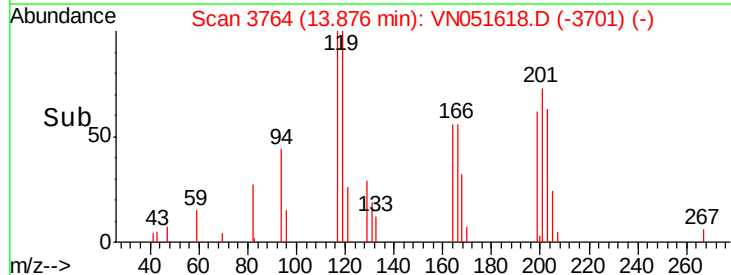
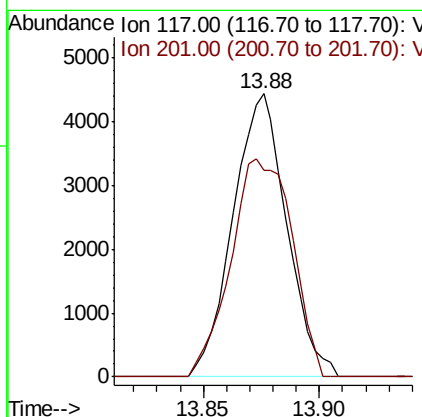
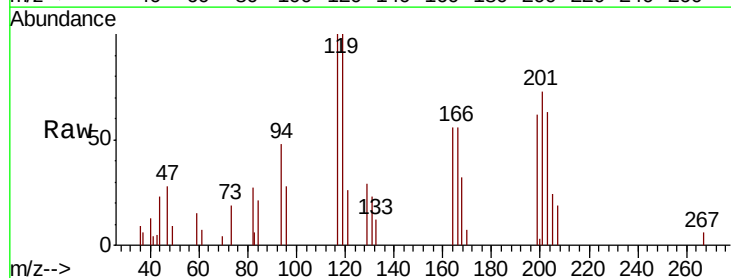
Manual Integrations
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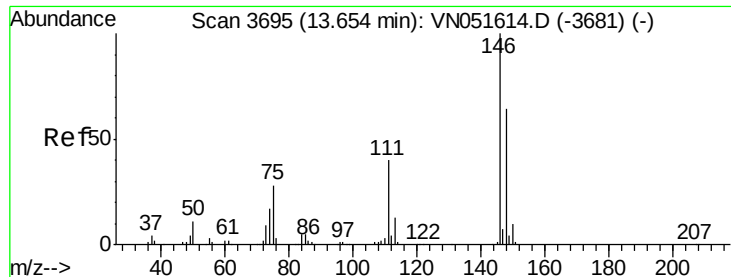
MMDadoda
 10/3/2018 5:27:42 PM



#86
 Hexachloroethane
 Concen: 1.428 ug/l
 RT: 13.88 min Scan# 3764
 Delta R.T. 0.00 min
 Lab File: VN051618.D
 Acq: 28 Sep 2018 16:02

Tgt Ion:117 Resp: 7157
 Ion Ratio Lower Upper
 117 100
 201 58.7 42.9 128.5





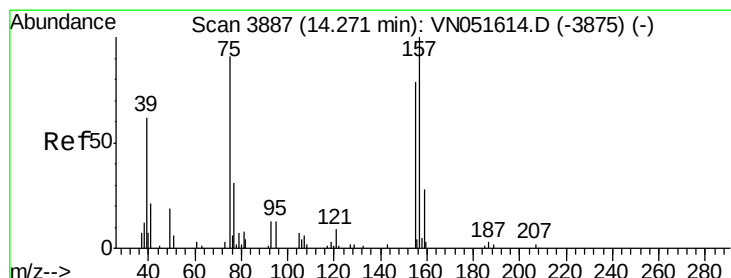
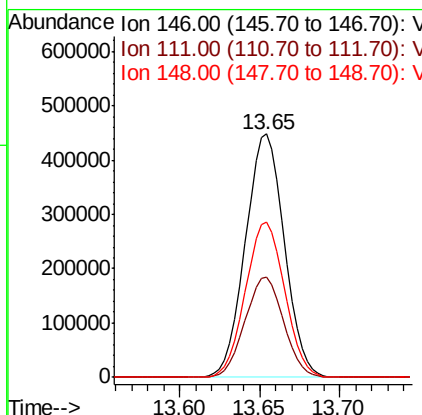
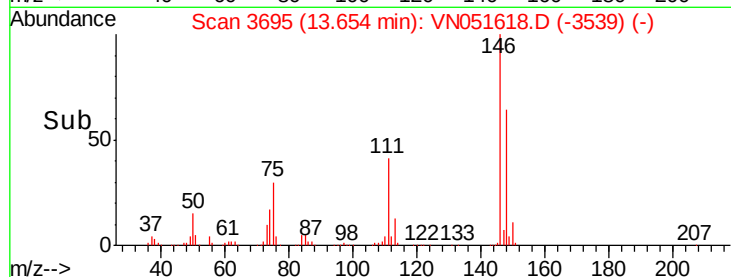
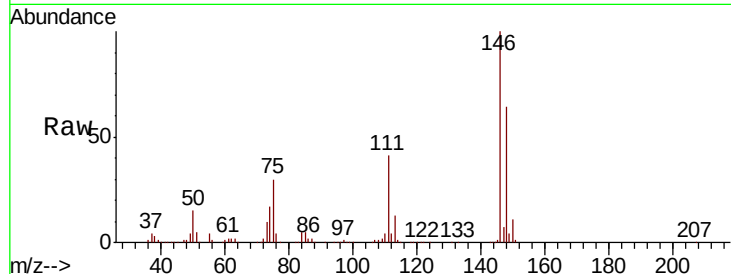
#87
 1,2-Dichlorobenzene
 Concen: 60.101 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN051618.D
 Acq: 28 Sep 2018 16:02

Instrument :
 MSVOA_N
 ClientSampled :
 PT-VOA-WP

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.9	20.1	60.3
148	64.2	32.1	96.5

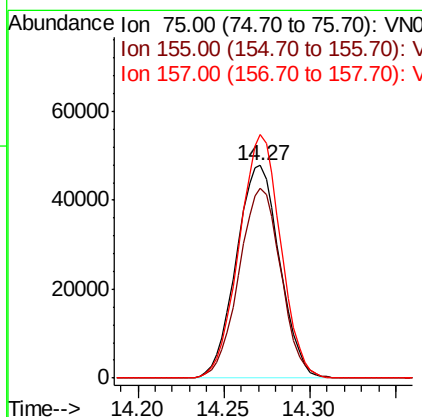
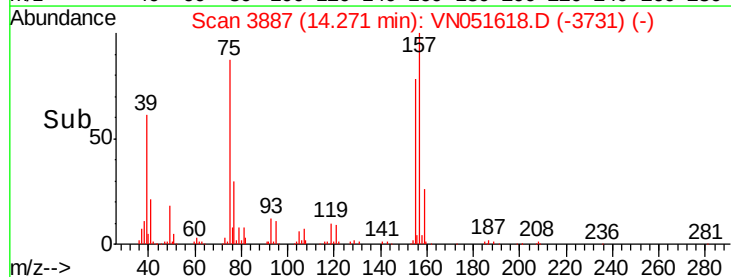
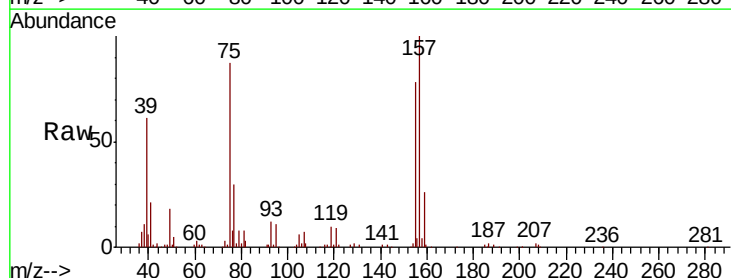
Manual Integrations
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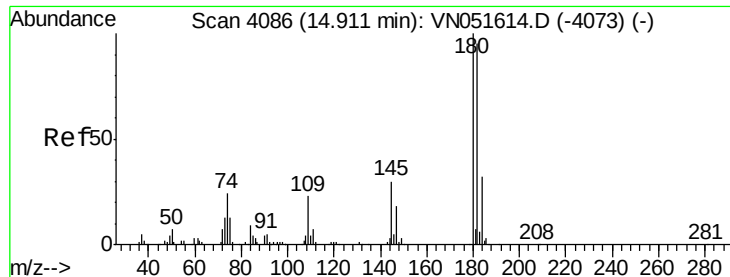
MMDadoda
 10/3/2018 5:27:42 PM



#88
 1,2-Dibromo-3-Chloropropane
 Concen: 81.054 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. 0.00 min
 Lab File: VN051618.D
 Acq: 28 Sep 2018 16:02

Tgt Ion	Ratio	Lower	Upper
75	100		
155	86.4	67.1	100.7
157	109.4	85.8	128.6





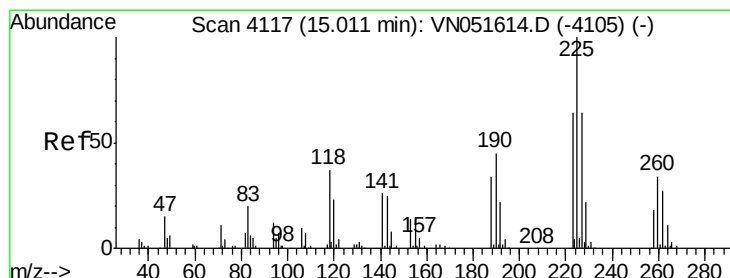
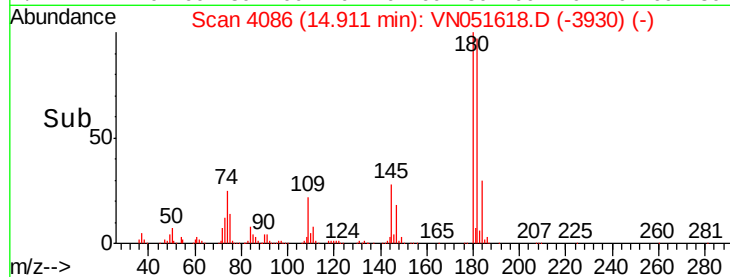
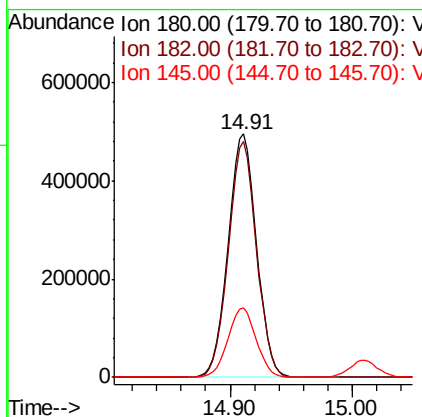
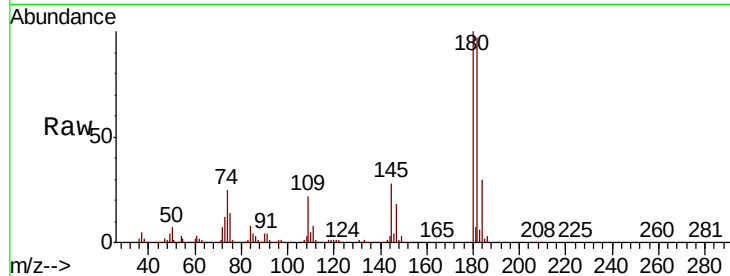
#89
 1,2,4-Trichlorobenzene
 Concen: 137.970 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN051618.D
 Acq: 28 Sep 2018 16:02

Instrument :
 MSVOA_N
 ClientSampled :
 PT-VOA-WP

Tot Ion:	180	Resp:	803135
Ion Ratio	Lower	Upper	
180	100		
182	95.8	75.2	112.8
145	28.4	22.9	34.3

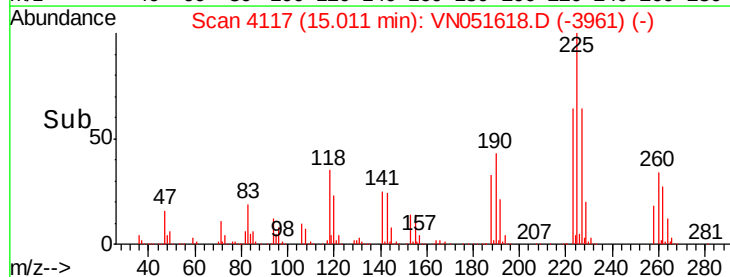
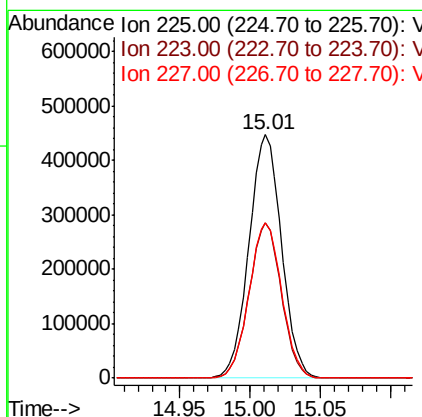
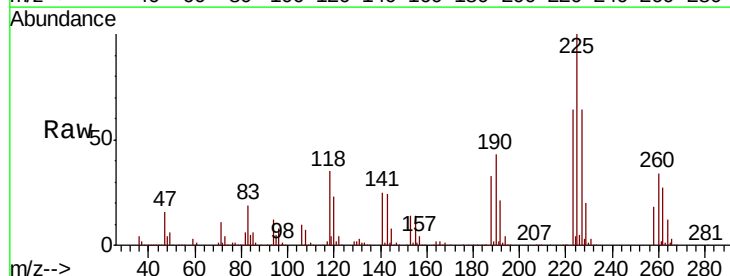
Manual Integrations
 APPROVED

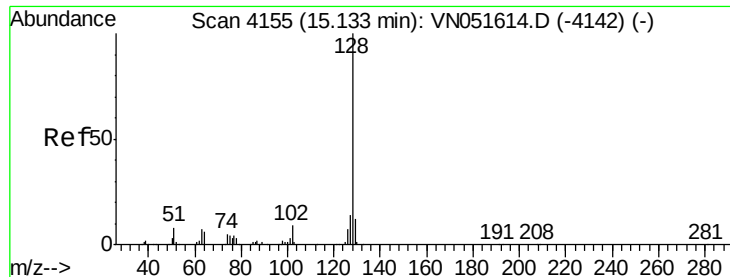
MMDadoda
 10/3/2018 5:27:42 PM



#90
 Hexachlorobutadiene
 Concen: 152.318 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN051618.D
 Acq: 28 Sep 2018 16:02

Tgt Ion:	225	Resp:	722850
Ion Ratio	Lower	Upper	
225	100		
223	63.4	0.0	131.0
227	64.1	0.0	129.0





#91

Naphthalene

Concen: 116.435 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN051618.D

Acq: 28 Sep 2018 16:02

Instrument :

MSVOA_N

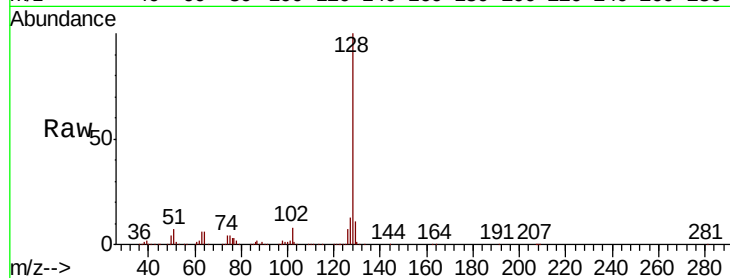
ClientSampled :

PT-VOA-WP

Tot Ion:	128	Resp:	1850141
Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.8	16.2
129	10.7	9.1	13.7

Manual Integrations
APPROVED

MMDadoda
10/3/2018 5:27:42 PM

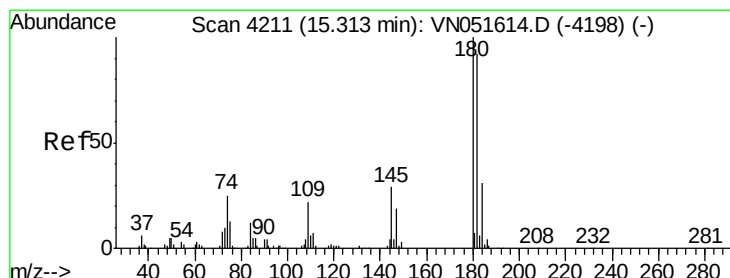
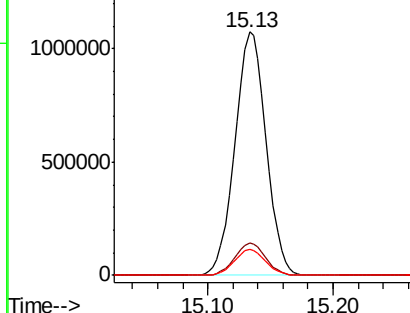
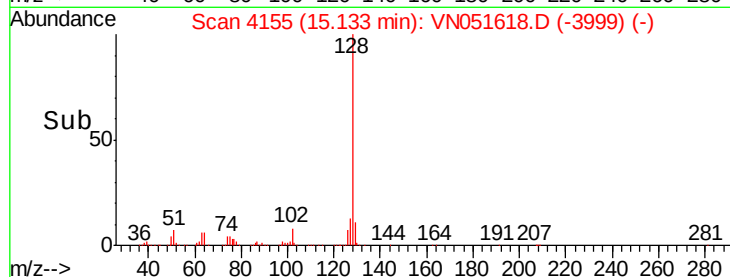


Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#92

1,2,3-Trichlorobenzene

Concen: 0.777 ug/l

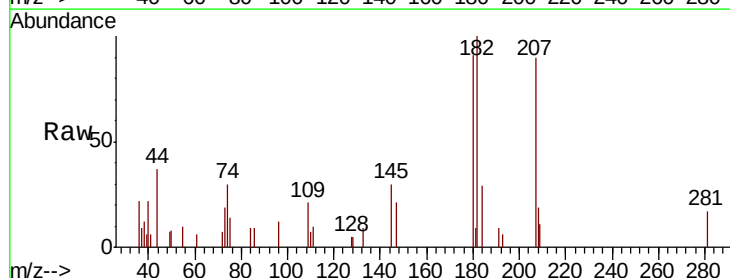
RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN051618.D

Acq: 28 Sep 2018 16:02

Tgt Ion:	180	Resp:	4547
Ion	Ratio	Lower	Upper
180	100		
182	103.5	0.0	191.8
145	17.4	0.0	60.4



Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

