

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071318\
 Data File : VN049794.D
 Acq On : 13 Jul 2018 13:58
 Operator : MD\SY
 Sample : J3762-08 LOO 2ppb
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT3-2018

Manual Integrations
 APPROVED

MMDadoda
 7/16/2018 11:25:27 AM

Quant Time: Jul 16 04:07:57 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071218W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 12 15:51:38 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1059268	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1642563	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1432236	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	599517	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	664331	53.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.82%	
35) Dibromofluoromethane	7.59	113	619161	50.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.02%	
50) Toluene-d8	10.09	98	1939384	45.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.52%	
62) 4-Bromofluorobenzene	12.40	95	612259	40.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	80.90%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	24157	1.36	ug/l	96
3) Chloromethane	2.06	50	32039	1.56	ug/l	97
4) Vinyl Chloride	2.18	62	34375	1.94	ug/l	90
5) Bromomethane	2.57	94	25422	1.87	ug/l	92
6) Chloroethane	2.70	64	20996	2.23	ug/l	99
7) Trichlorofluoromethane	3.01	101	49168	2.45	ug/l	95
8) Diethyl Ether	3.42	74	15702	2.18	ug/l	95
9) 1,1,2-Trichlorotrifluoroet	3.76	101	29441	2.26	ug/l	97
12) 1,1-Dichloroethene	3.74	96	25887	2.26	ug/l	93
14) Allyl chloride	4.33	41	39283	2.10	ug/l	97
15) Acrylonitrile	5.00	53	42498	10.29	ug/l	96
16) Acetone	3.83	43	34578	9.40	ug/l	94
17) Carbon Disulfide	4.05	76	71136	2.01	ug/l	99
18) Methyl Acetate	4.34	43	34747	2.68	ug/l #	82
19) Methyl tert-butyl Ether	5.05	73	64153	2.02	ug/l	95
20) Methylene Chloride	4.56	84	33717	1.78	ug/l	97
21) trans-1,2-Dichloroethene	5.05	96	27387	2.19	ug/l	95
22) Diisopropyl ether	5.96	45	72000	1.88	ug/l	95
23) Vinyl Acetate	5.91	43	242955	9.44	ug/l	99
24) 1,1-Dichloroethane	5.85	63	52035	2.16	ug/l	97
25) 2-Butanone	6.85	43	46697	9.72	ug/l	98
26) 2,2-Dichloropropane	6.83	77	42186	2.11	ug/l	80
27) cis-1,2-Dichloroethene	6.84	96	30286	2.12	ug/l	98
29) Tetrahydrofuran	7.22	42	27299	9.05	ug/l	100
30) Chloroform	7.37	83	55645	2.24	ug/l	95
31) Cyclohexane	7.66	56	52829	2.51	ug/l #	61
32) 1,1,1-Trichloroethane	7.58	97	45403	2.15	ug/l	97
36) 1,1-Dichloropropene	7.79	75	37221	1.97	ug/l	83
37) Ethyl Acetate	6.94	43	21629	1.93	ug/l #	96
38) Carbon Tetrachloride	7.77	117	43525	2.20	ug/l	99
39) Methylcyclohexane	9.08	83	36126	1.81	ug/l	96
40) Benzene	8.05	78	117850	2.08	ug/l	98
41) Methacrylonitrile	7.18	41	10907	1.72	ug/l #	89
42) 1,2-Dichloroethane	8.13	62	38047	2.05	ug/l	99

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

43) Isopropyl Acetate	8.17	43	36974	1.84	ug/l	95
44) Trichloroethene	8.84	130	32105	2.11	ug/l	100
45) 1,2-Dichloropropane	9.12	63	29513	1.94	ug/l	95
46) Dibromomethane	9.21	93	18779	2.08	ug/l	96
47) Bromodichloromethane	9.41	83	41865	2.10	ug/l	98
48) Methyl methacrylate	9.20	41	17059	1.69	ug/l	97
49) 1,4-Dioxane	9.20	88	4555	34.53	ug/l #	82
51) 4-Methyl-2-Pentanone	9.99	43	97500	8.92	ug/l	97
52) Toluene	10.16	92	69042	2.04	ug/l	98
53) t-1,3-Dichloropropene	10.38	75	34586	1.81	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	39583	1.82	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	30510	1.72	ug/l	95
56) Ethyl methacrylate	10.43	69	25217	1.65	ug/l	97
57) 1,3-Dichloropropane	10.71	76	43633	2.02	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.70	63	55083	7.51	ug/l	99
59) 2-Hexanone	10.76	43	60361	8.30	ug/l	89
60) Dibromochloromethane	10.90	129	28316	1.91	ug/l	93
61) 1,2-Dibromoethane	11.01	107	24722	2.00	ug/l	91
64) Tetrachloroethene	10.63	164	27971	2.15	ug/l	98
65) Chlorobenzene	11.44	112	76983	2.06	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	30079	2.14	ug/l	98
67) Ethyl Benzene	11.51	91	114518	1.87	ug/l	98
68) m/p-Xylenes	11.63	106	78070	3.40	ug/l	99
69) o-Xylene	11.95	106	38570	1.74	ug/l	99
70) Styrene	11.97	104	54875	1.56	ug/l	98
71) Bromoform	12.13	173	17546	1.85	ug/l #	99
73) Isopropylbenzene	12.25	105	98077	1.97	ug/l	98
74) N-amyl acetate	12.07	43	23034	1.78	ug/l	97
75) 1,1,1,2-Tetrachloroethane	12.51	83	32249	0.88	ug/l	96
76) 1,2,3-Trichloropropane	12.56	75	22599m	2.12	ug/l	
77) Bromobenzene	12.53	156	31055	2.35	ug/l	98
78) n-propylbenzene	12.59	91	112340	2.00	ug/l	99
79) 2-Chlorotoluene	12.68	91	74550	2.17	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	80791	2.04	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.30	75	5627m	1.71	ug/l	
82) 4-Chlorotoluene	12.77	91	70408	2.06	ug/l	100
83) tert-Butylbenzene	12.99	119	73277	2.07	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	73286	1.85	ug/l	100
85) sec-Butylbenzene	13.17	105	90731	1.95	ug/l	99
86) p-Isopropyltoluene	13.29	119	72663	1.85	ug/l	99
87) 1,3-Dichlorobenzene	13.29	146	47310	2.06	ug/l	99
88) 1,4-Dichlorobenzene	13.37	146	46127	2.07	ug/l	88
89) n-Butylbenzene	13.62	91	52646	1.62	ug/l	98
90) Hexachloroethane	13.88	117	17222	1.45	ug/l	92
91) 1,2-Dichlorobenzene	13.65	146	48022	2.15	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.27	75	4524	2.10	ug/l	95
93) 1,2,4-Trichlorobenzene	14.91	180	14502	4.00	ug/l	99
94) Hexachlorobutadiene	15.01	225	15633	1.24	ug/l	93
95) Naphthalene	15.14	128	29049	5.03	ug/l #	97
96) 1,2,3-Trichlorobenzene	15.32	180	16615	1.53	ug/l	99

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Quant Title : SW846 8260
QLast Update : Thu Jul 12 15:51:38 2018
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

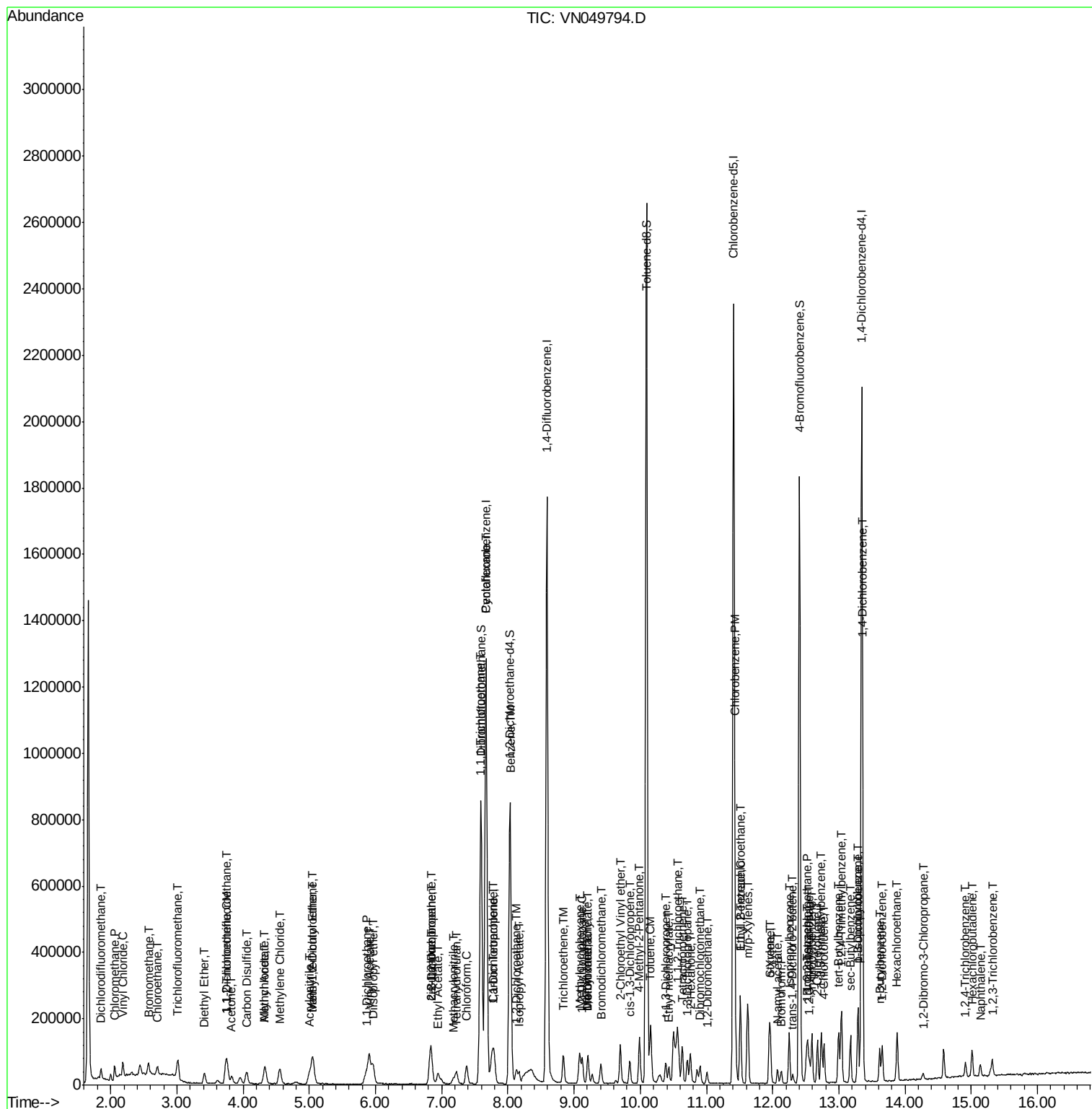
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071318\
 Data File : VN049794.D
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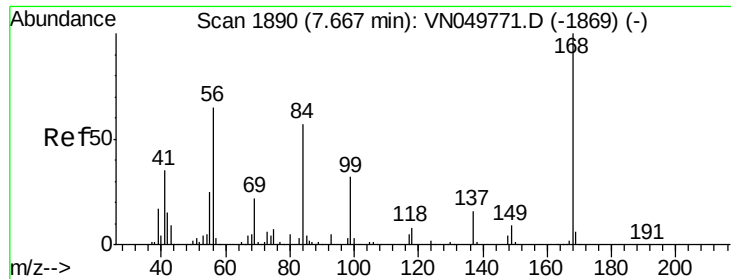
Instrument :
 MSVOA_N
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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN049794.D

Acq: 13 Jul 2018 13:58

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT3-2018

Tot Ion:168 Resp: 1059268

Ion Ratio Lower Upper

168 100

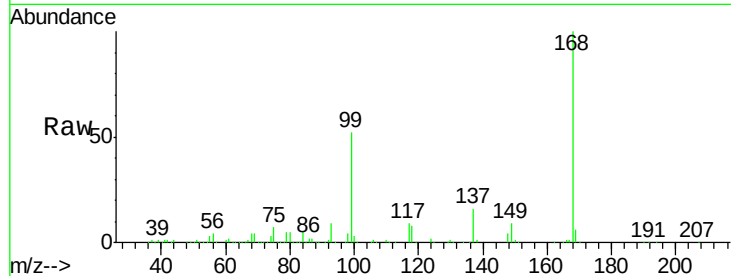
99 51.4 40.6 61.0

Manual Integrations

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7/16/2018 11:25:27 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

400000

300000

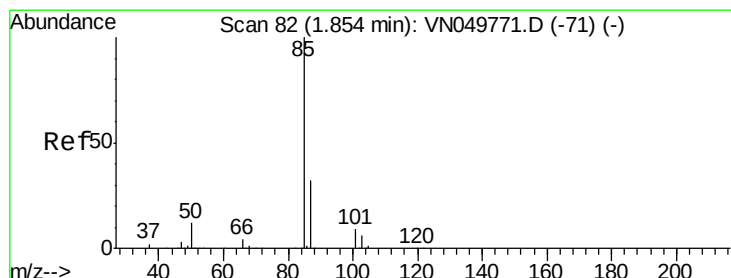
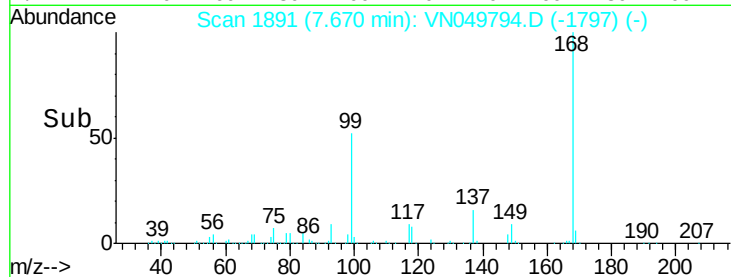
200000

100000

0

7.60 7.70 7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 1.36 ug/l

RT: 1.85 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN049794.D

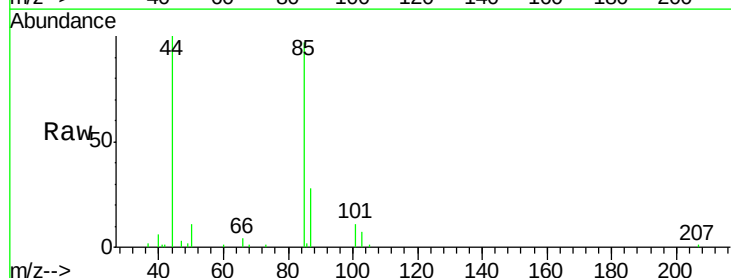
Acq: 13 Jul 2018 13:58

Tgt Ion: 85 Resp: 24157

Ion Ratio Lower Upper

85 100

87 28.7 15.4 46.1



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

1.85

20000

15000

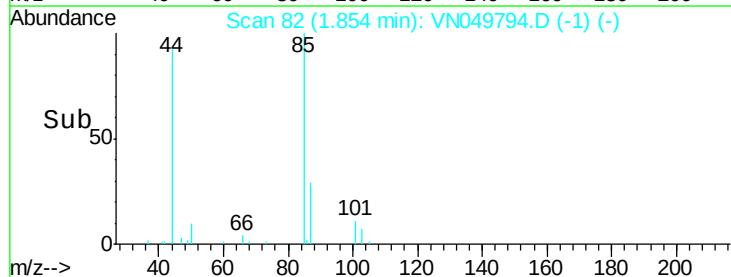
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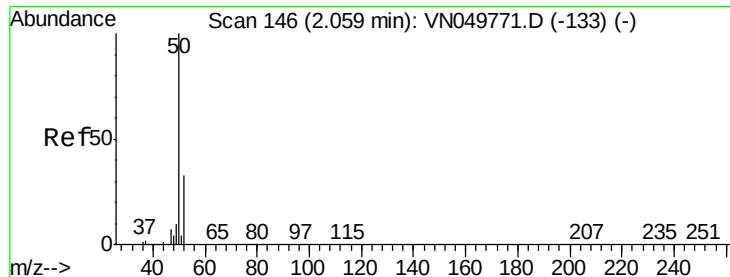
5000

0

1.80 1.85 1.90

Time-->





#3

Chloromethane

Concen: 1.56 ug/l

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN049794.D

Acq: 13 Jul 2018 13:58

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT3-2018

Tot Ion: 50 Resp: 32039

Ion Ratio Lower Upper

50 100

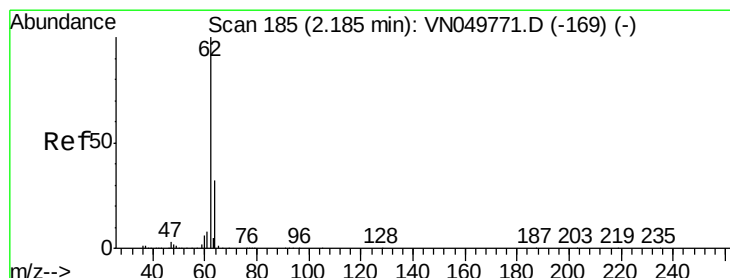
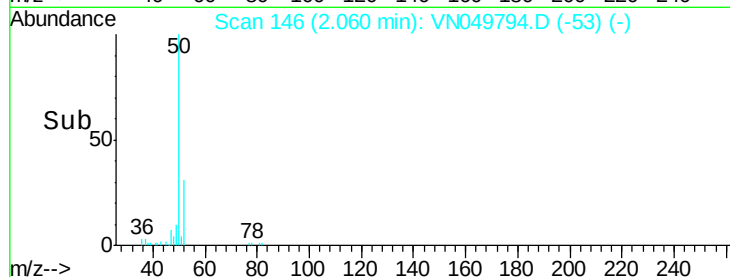
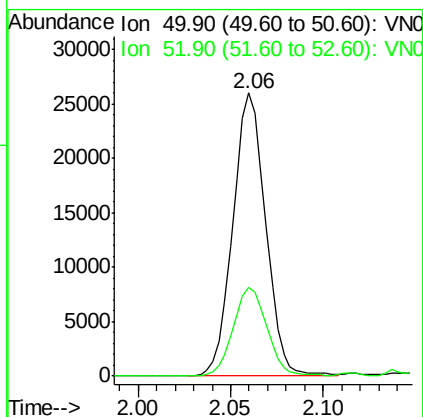
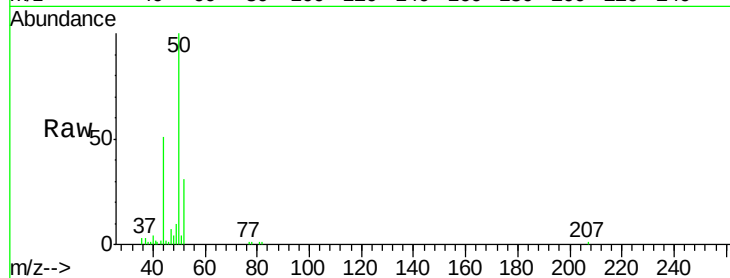
52 31.2 26.1 39.1

Manual Integrations

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#4

Vinyl Chloride

Concen: 1.94 ug/l

RT: 2.18 min Scan# 185

Delta R.T. 0.00 min

Lab File: VN049794.D

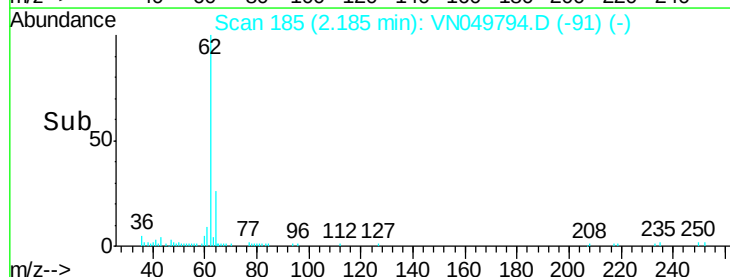
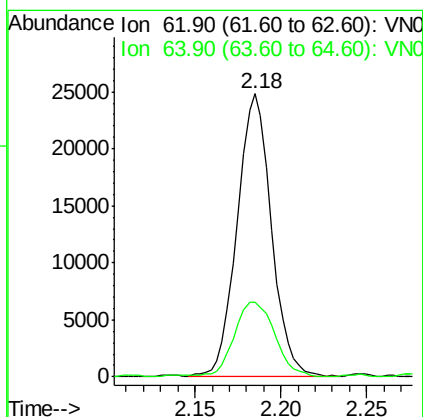
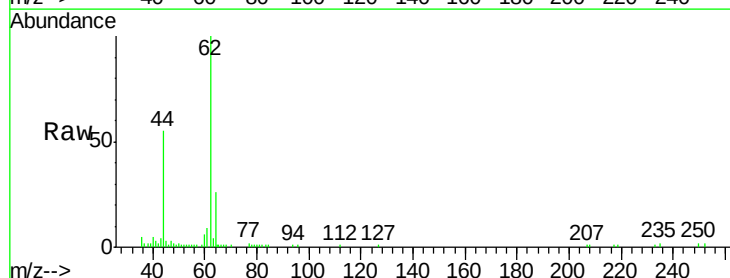
Acq: 13 Jul 2018 13:58

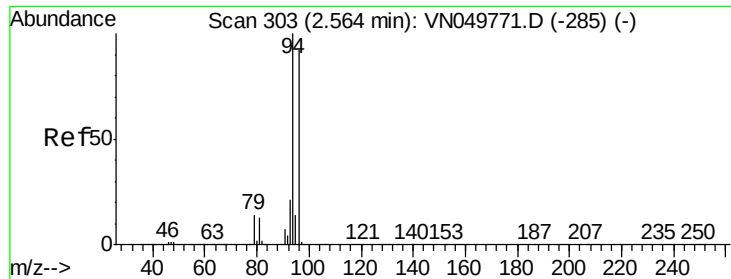
Tgt Ion: 62 Resp: 34375

Ion Ratio Lower Upper

62 100

64 26.4 25.4 38.0





#5

Bromomethane

Concen: 1.87 ug/l

RT: 2.57 min Scan# 304

Delta R.T. 0.00 min

Lab File: VN049794.D

Acq: 13 Jul 2018 13:58

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT3-2018

Tot Ion: 94 Resp: 25422

Ion Ratio Lower Upper

94 100

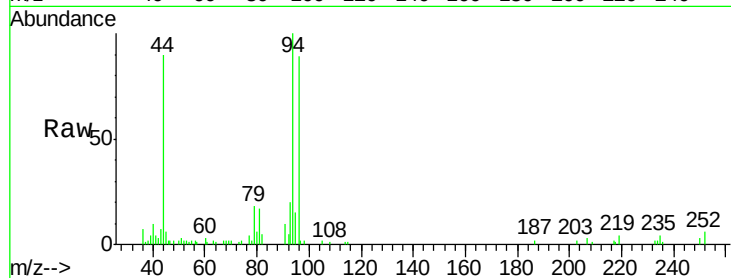
96 86.6 75.7 113.5

Manual Integrations

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Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

2.57

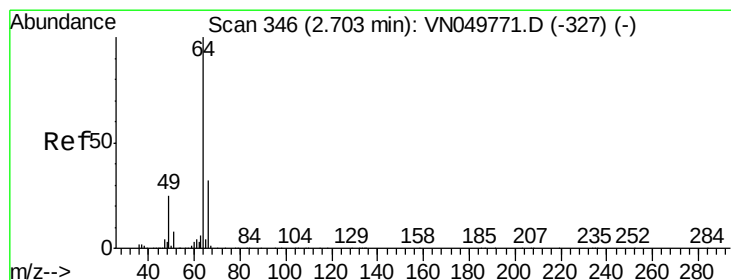
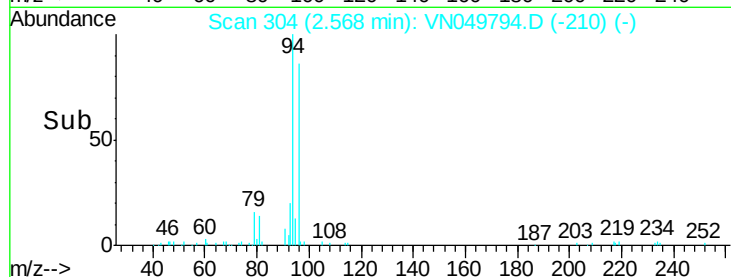
15000

10000

5000

0

Time-->



#6

Chloroethane

Concen: 2.23 ug/l

RT: 2.70 min Scan# 346

Delta R.T. 0.00 min

Lab File: VN049794.D

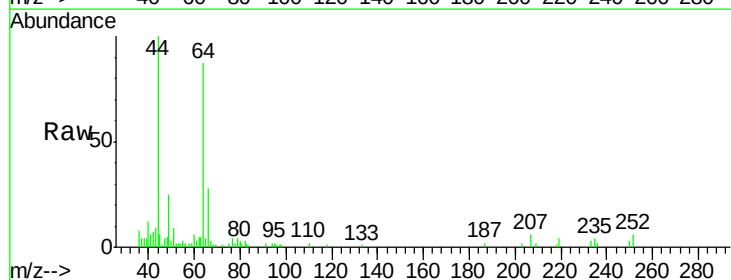
Acq: 13 Jul 2018 13:58

Tgt Ion: 64 Resp: 20996

Ion Ratio Lower Upper

64 100

66 31.2 25.6 38.4



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0

2.70

12000

10000

8000

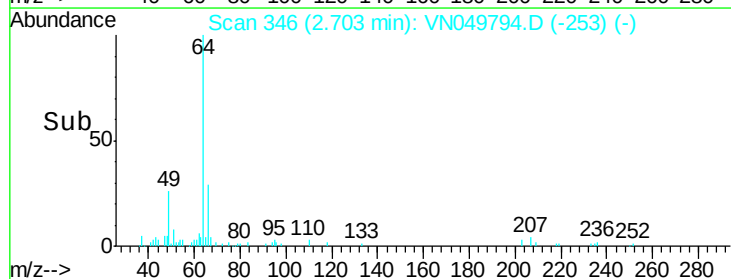
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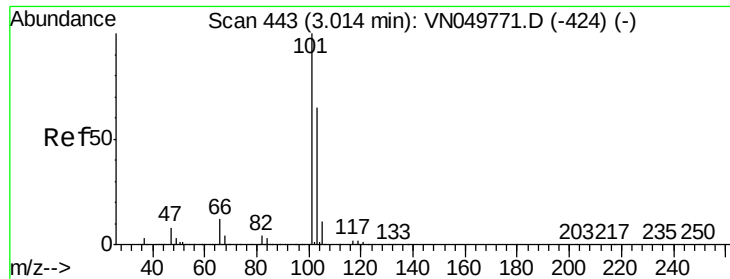
4000

2000

0

Time-->





#7

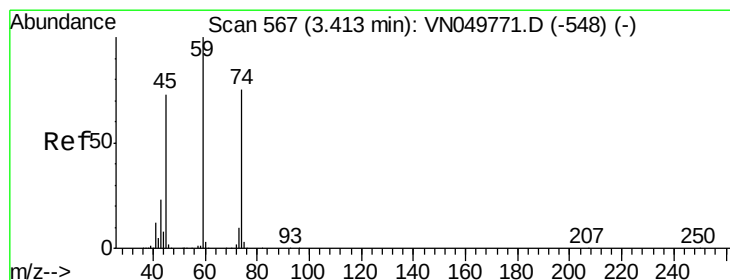
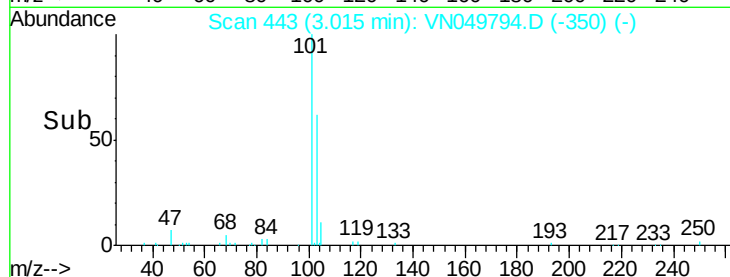
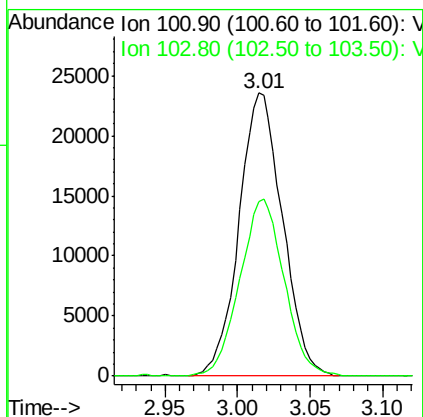
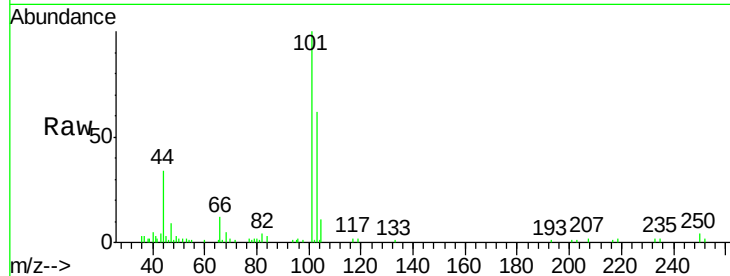
Trichlorofluoromethane
 Concen: 2.45 ug/l
 RT: 3.01 min Scan# 443
 Delta R.T. 0.00 min
 Lab File: VN049794.D
 Acq: 13 Jul 2018 13:58

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT3-2018

Tot Ion	Ratio	Lower	Upper
101	100		
103	61.8	52.8	79.2

Manual Integrations
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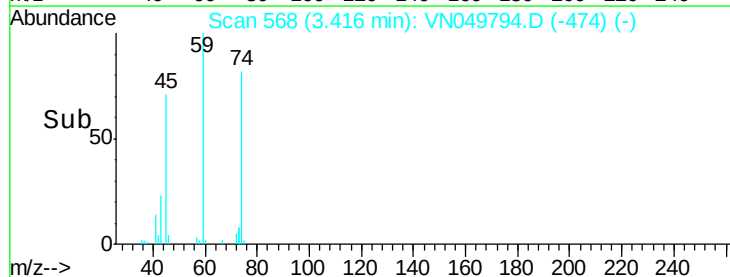
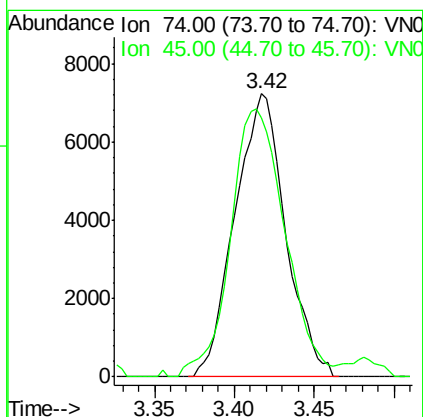
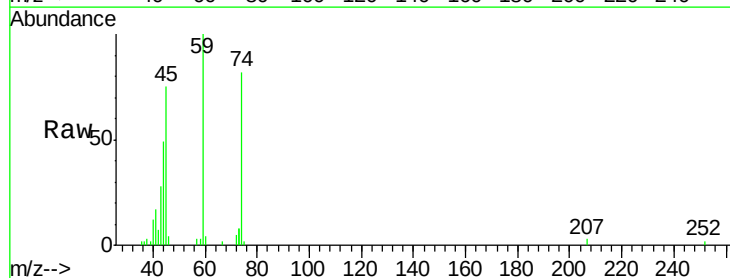
MMDadoda
 7/16/2018 11:25:27 AM

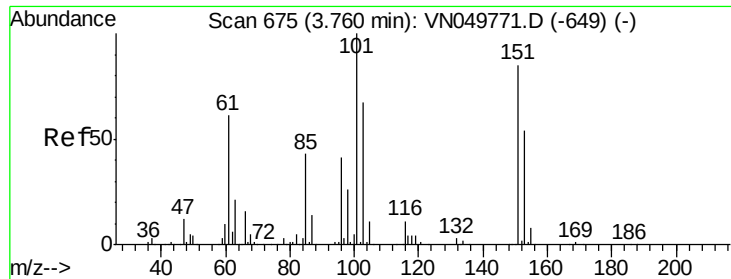


#8

Diethyl Ether
 Concen: 2.18 ug/l
 RT: 3.42 min Scan# 568
 Delta R.T. 0.00 min
 Lab File: VN049794.D
 Acq: 13 Jul 2018 13:58

Tgt Ion	Ratio	Lower	Upper
74	100		
45	101.6	48.4	145.2





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.26 ug/l

RT: 3.76 min Scan# 676

Delta R.T. 0.00 min

Lab File: VN049794.D

Acq: 13 Jul 2018 13:58

Instrument :

MSVOA_N

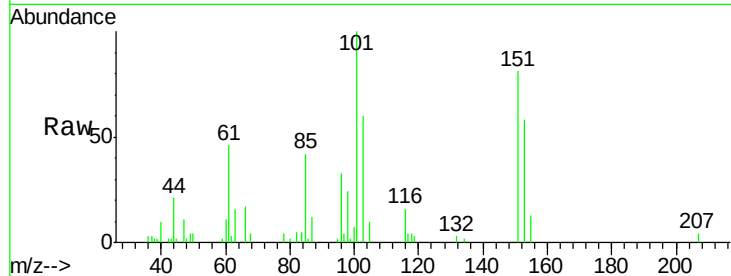
ClientSampleId :

LOQ-WATER-02-QT3-2018

Tot Ion:	101	Resp:	29441
Ion Ratio	Lower	Upper	
101	100		
85	40.5	34.4	51.6
151	81.0	66.2	99.4

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APPROVED

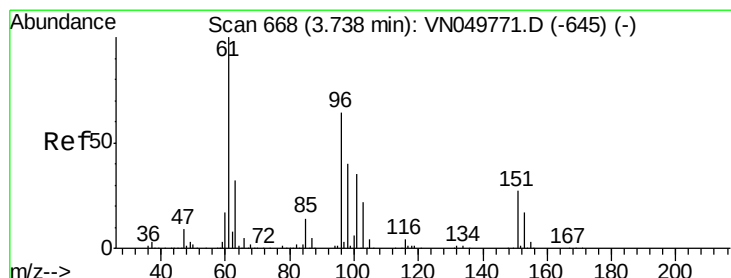
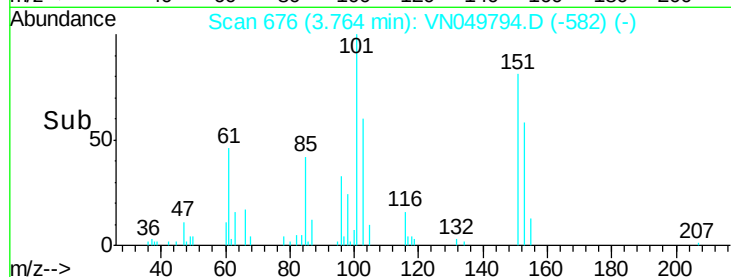
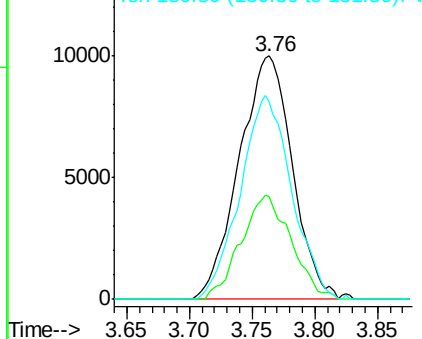
MMDadoda
7/16/2018 11:25:27 AM



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VNO

Ion 150.80 (150.50 to 151.50): V



#12

1,1-Dichloroethene

Concen: 2.26 ug/l

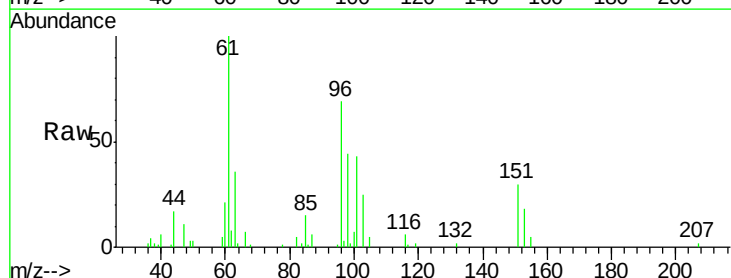
RT: 3.74 min Scan# 669

Delta R.T. 0.00 min

Lab File: VN049794.D

Acq: 13 Jul 2018 13:58

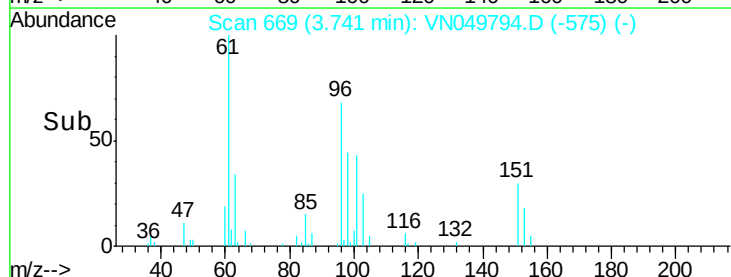
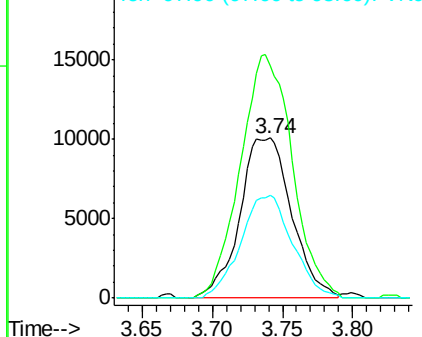
Tgt Ion:	96	Resp:	25887
Ion Ratio	Lower	Upper	
96	100		
61	145.1	126.5	189.7
98	64.4	51.0	76.6

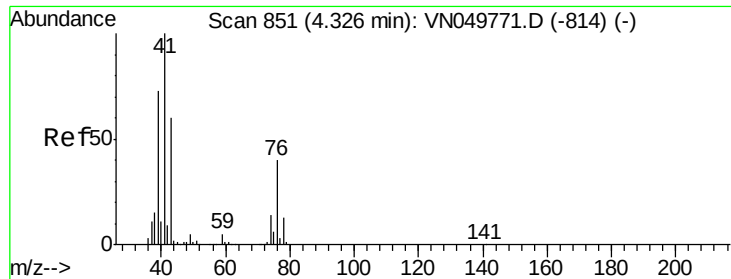


Abundance Ion 95.90 (95.60 to 96.60): VNO

Ion 60.90 (60.60 to 61.60): VNO

Ion 97.90 (97.60 to 98.60): VNO





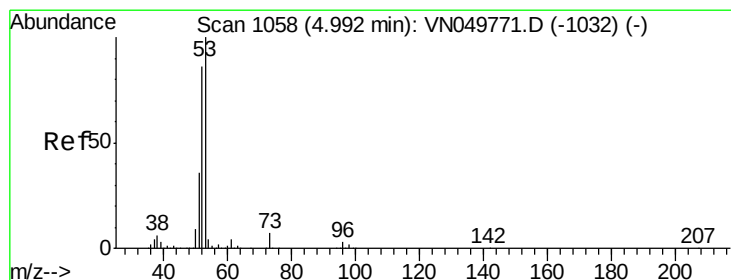
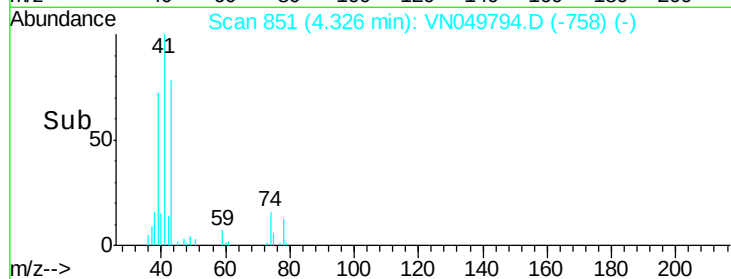
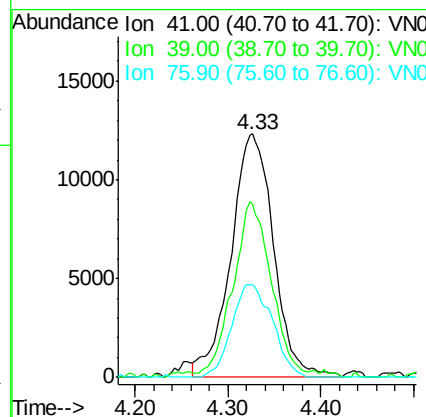
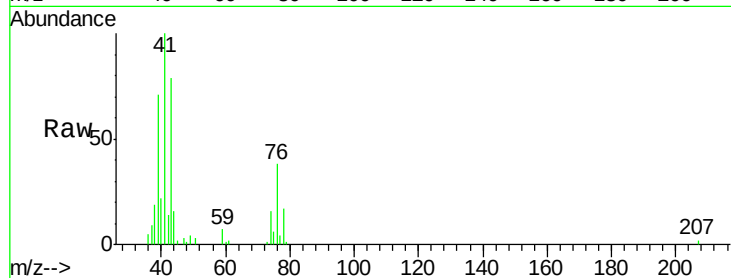
#14
Allvl chloride
Concen: 2.10 ug/l
RT: 4.33 min Scan# 851
Delta R.T. 0.00 min
Lab File: VN049794.D
Acq: 13 Jul 2018 13:58

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT3-2018

Tot Ion	Ratio	Lower	Upper
41	100		
39	62.8	53.2	79.8
76	36.5	29.0	43.6

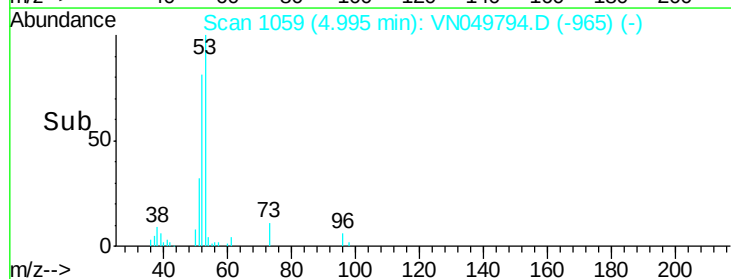
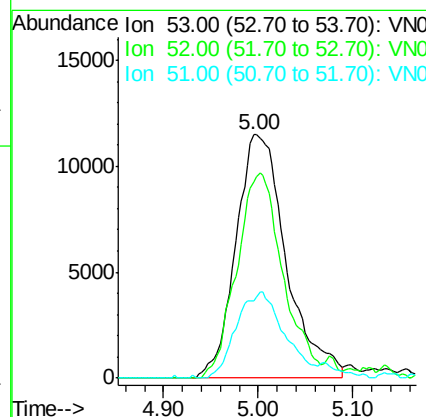
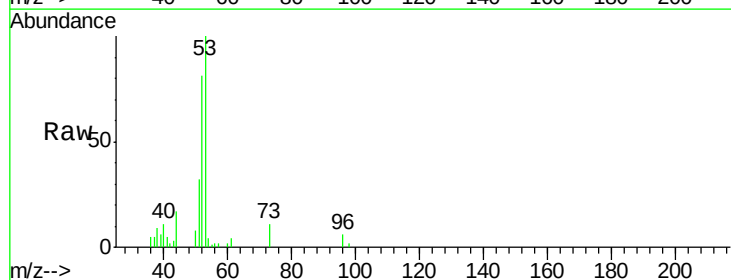
Manual Integrations
APPROVED

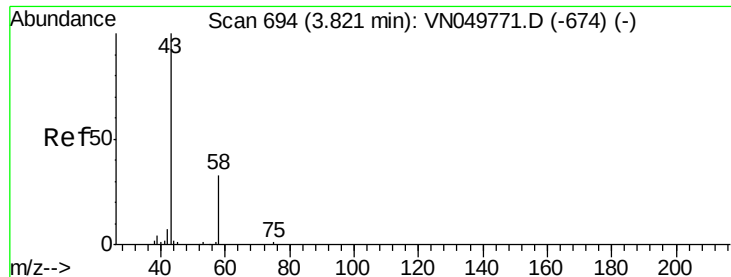
MMDadoda
7/16/2018 11:25:27 AM



#15
Acrylonitrile
Concen: 10.29 ug/l
RT: 5.00 min Scan# 1059
Delta R.T. 0.00 min
Lab File: VN049794.D
Acq: 13 Jul 2018 13:58

Tgt Ion	Ratio	Lower	Upper
53	100		
52	77.3	64.8	97.2
51	33.8	28.9	43.3





#16

Acetone

Concen: 9.40 ug/l

RT: 3.83 min Scan# 696

Delta R.T. 0.01 min

Lab File: VN049794.D

Acq: 13 Jul 2018 13:58

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT3-2018

Tot Ion: 43 Resp: 34578

Ion Ratio Lower Upper

43 100

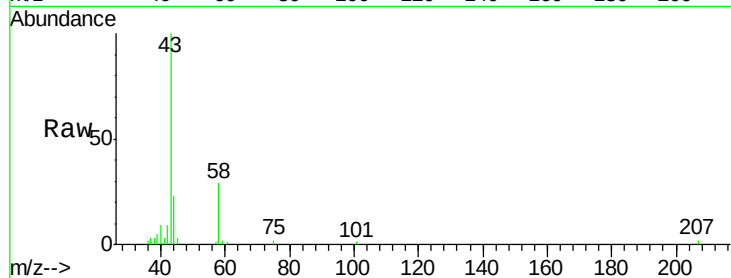
58 29.3 25.9 38.9

Manual Integrations

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MMDadoda

7/16/2018 11:25:27 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

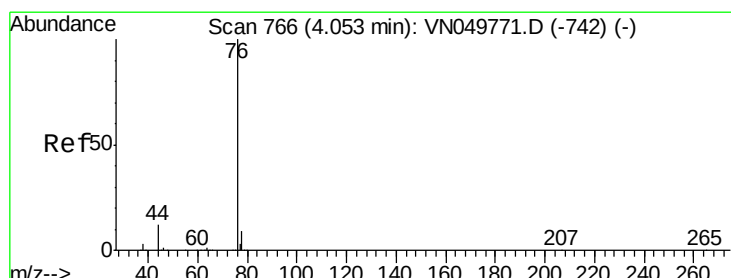
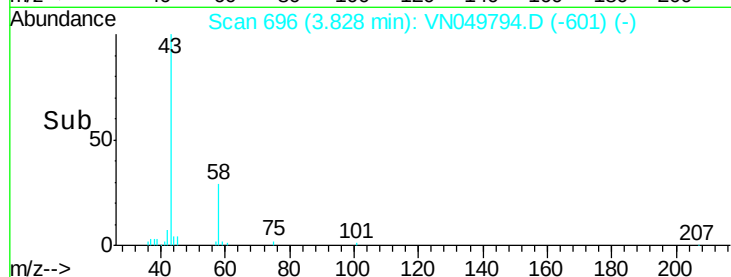
15000

10000

5000

0

Time--> 3.70 3.80 3.90



#17

Carbon Disulfide

Concen: 2.01 ug/l

RT: 4.05 min Scan# 766

Delta R.T. 0.00 min

Lab File: VN049794.D

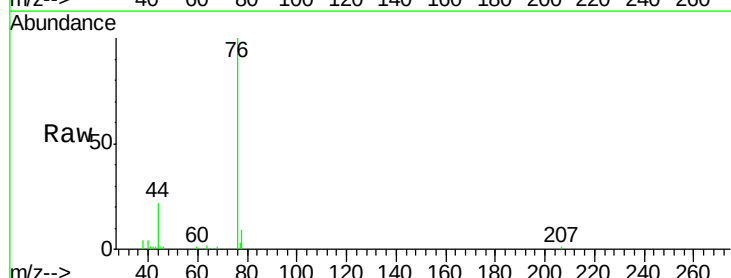
Acq: 13 Jul 2018 13:58

Tgt Ion: 76 Resp: 71136

Ion Ratio Lower Upper

76 100

78 8.6 7.1 10.7



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

30000

25000

20000

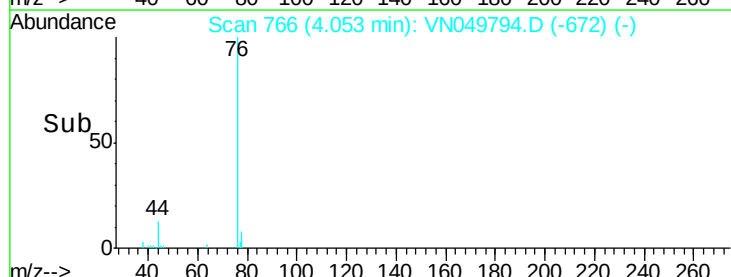
15000

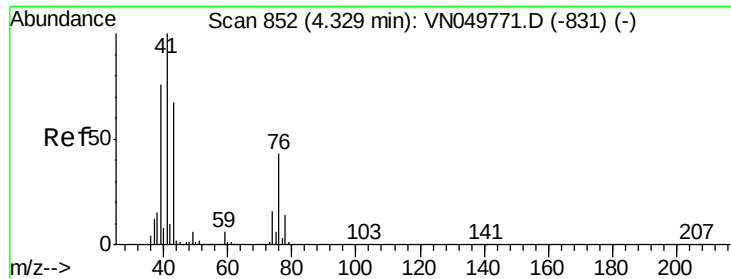
10000

5000

0

Time--> 4.00 4.10





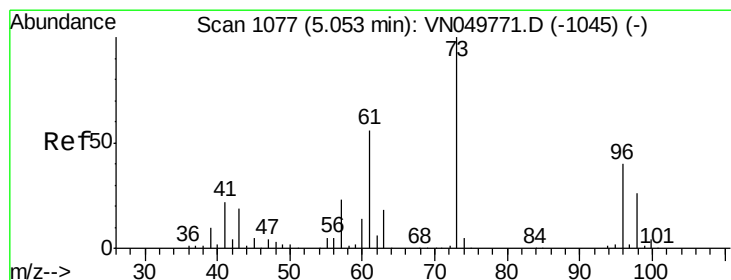
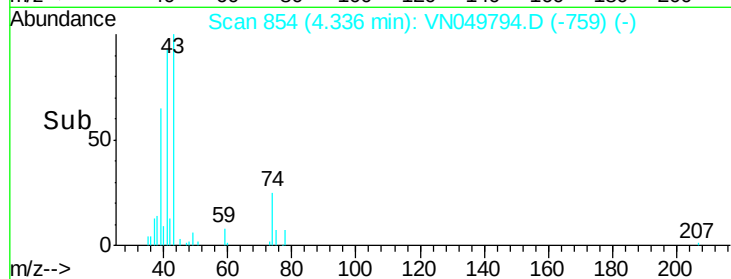
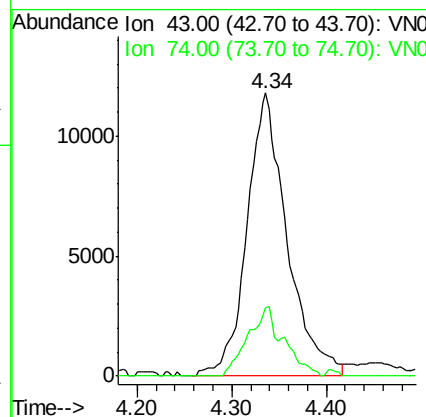
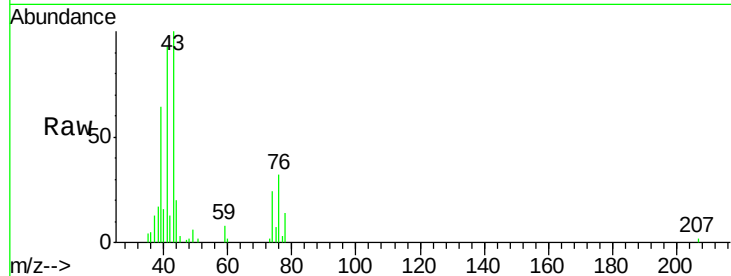
#18
Methvl Acetate
Concen: 2.68 ug/l
RT: 4.34 min Scan# 854
Delta R.T. 0.01 min
Lab File: VN049794.D
Acq: 13 Jul 2018 13:58

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT3-2018

Tot Ion: 43 Resp: 34747
Ion Ratio Lower Upper
43 100
74 16.0 19.8 29.8#

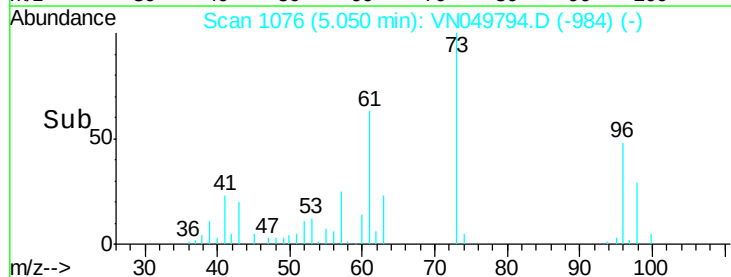
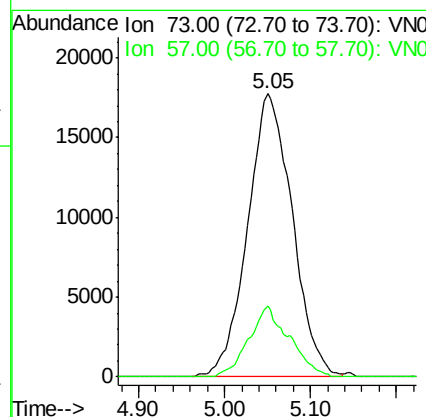
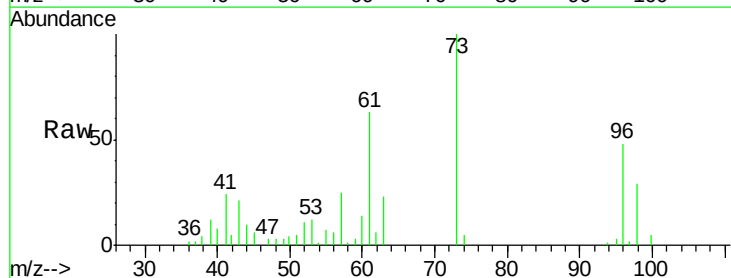
Manual Integrations
APPROVED

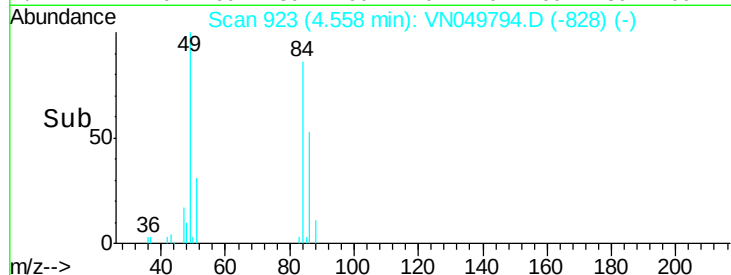
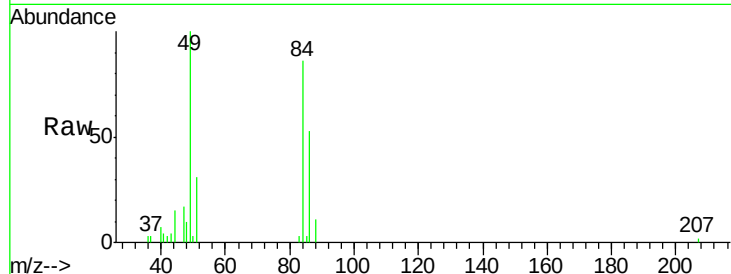
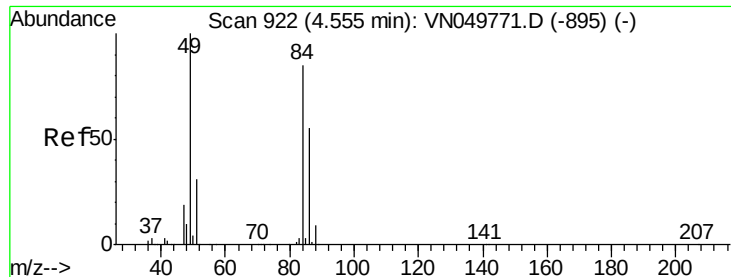
MMDadoda
7/16/2018 11:25:27 AM



#19
Methyl tert-butyl Ether
Concen: 2.02 ug/l
RT: 5.05 min Scan# 1076
Delta R.T. -0.00 min
Lab File: VN049794.D
Acq: 13 Jul 2018 13:58

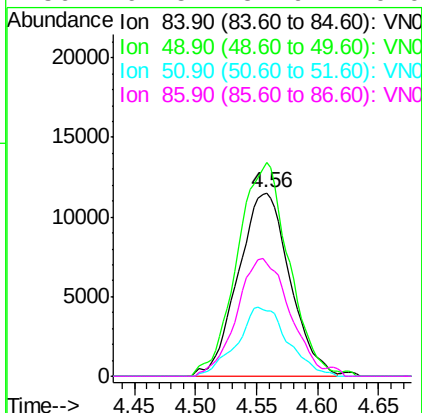
Tgt Ion: 73 Resp: 64153
Ion Ratio Lower Upper
73 100
57 25.1 18.1 27.1





#20
Methylene Chloride
Concen: 1.78 ug/l
RT: 4.56 min Scan# 923
Delta R.T. 0.00 min
Lab File: VN049794.D
Acq: 13 Jul 2018 13:58

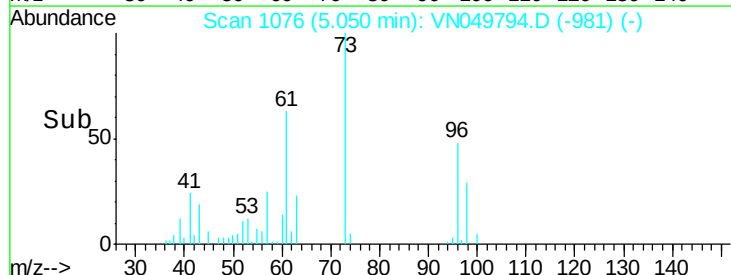
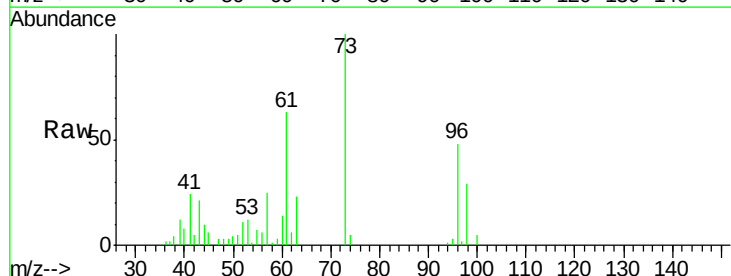
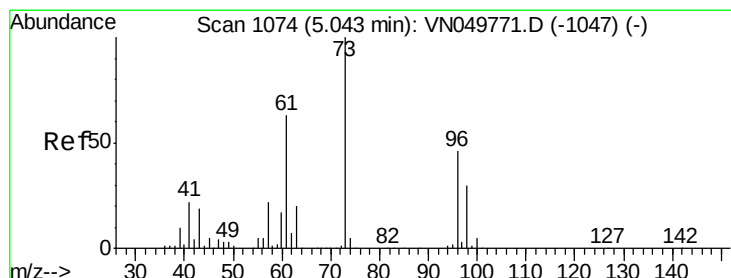
Tot Ion	84	Resp	33717
Ion Ratio	Lower	Upper	
84	100		
49	116.6	95.4	143.2
51	35.9	28.4	42.6
86	61.5	52.6	79.0



Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT3-2018

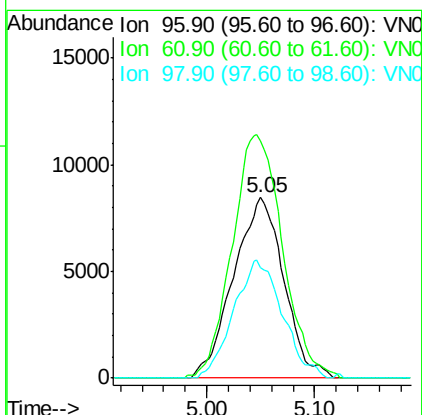
Manual Integrations
APPROVED

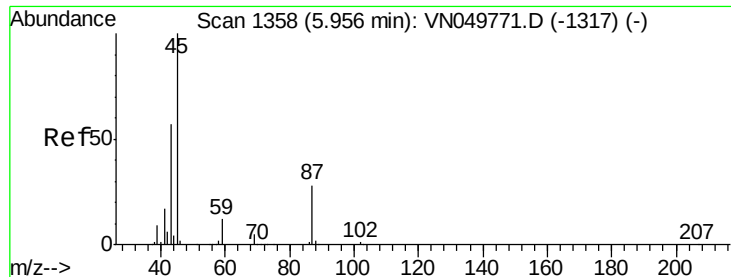
MMDadoda
7/16/2018 11:25:27 AM



#21
trans-1,2-Dichloroethene
Concen: 2.19 ug/l
RT: 5.05 min Scan# 1076
Delta R.T. 0.01 min
Lab File: VN049794.D
Acq: 13 Jul 2018 13:58

Tgt Ion	96	Resp	27387
Ion Ratio	Lower	Upper	
96	100		
61	129.9	109.0	163.6
98	61.5	51.1	76.7





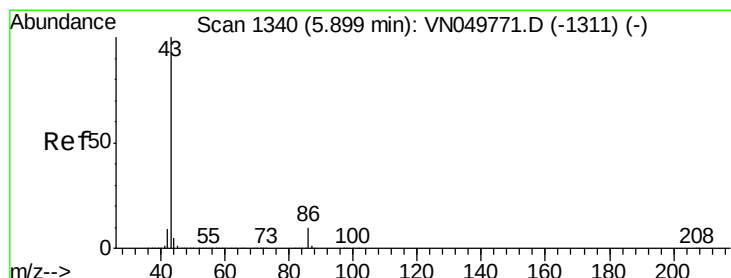
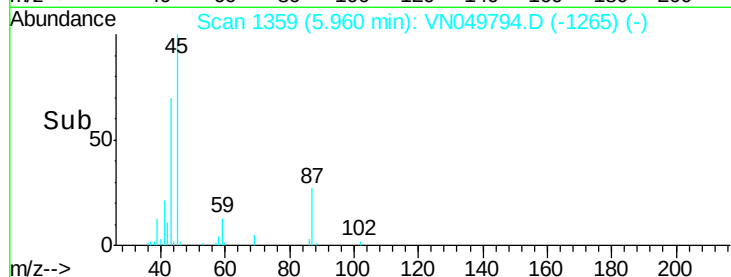
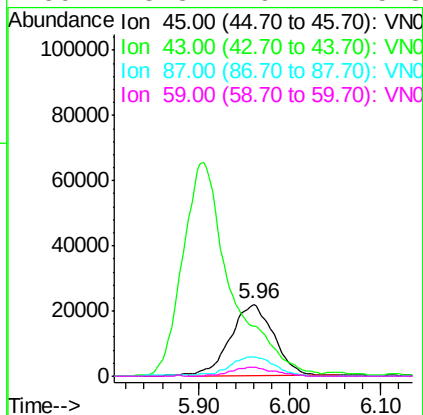
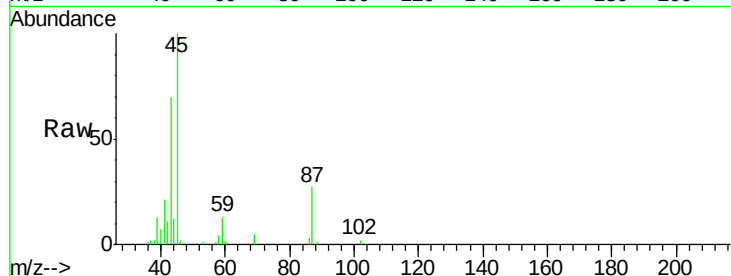
#22
Diisopropyl ether
Concen: 1.88 ug/l
RT: 5.96 min Scan# 1359
Delta R.T. 0.00 min
Lab File: VN049794.D
Acq: 13 Jul 2018 13:58

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT3-2018

Tot Ion	45	Resp:	72000
Ion	Ratio	Lower	Upper
45	100		
43	65.3	48.1	72.1
87	27.2	22.6	34.0
59	13.3	9.2	13.8

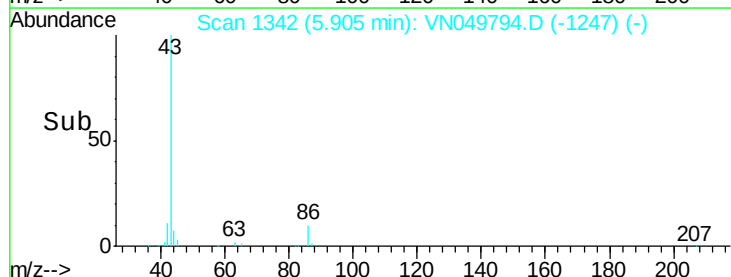
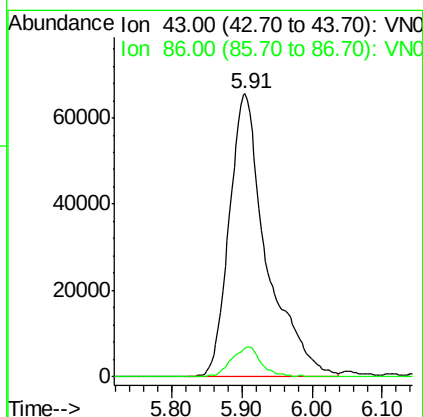
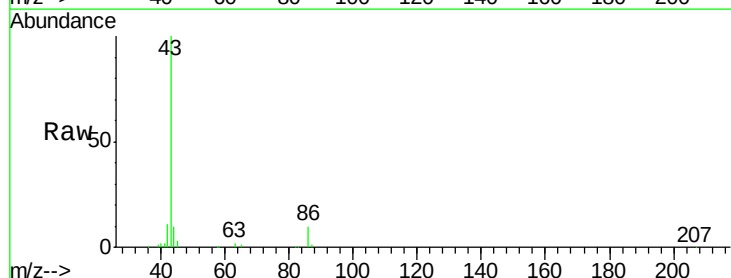
Manual Integrations
APPROVED

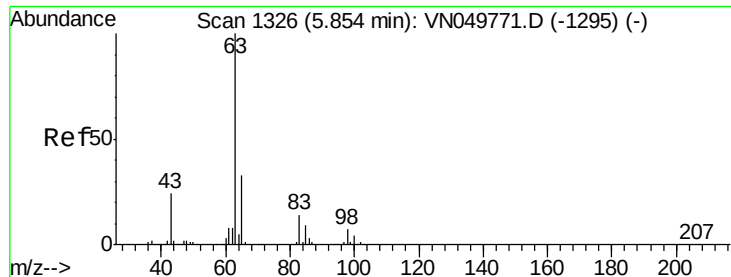
MMDadoda
7/16/2018 11:25:27 AM



#23
Vinyl Acetate
Concen: 9.44 ug/l
RT: 5.91 min Scan# 1342
Delta R.T. 0.01 min
Lab File: VN049794.D
Acq: 13 Jul 2018 13:58

Tgt Ion	43	Resp:	242955
Ion	Ratio	Lower	Upper
43	100		
86	10.2	8.4	12.6





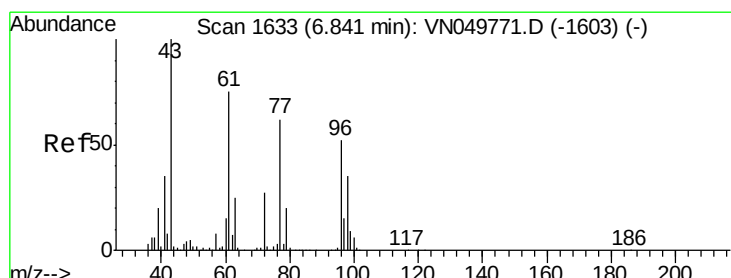
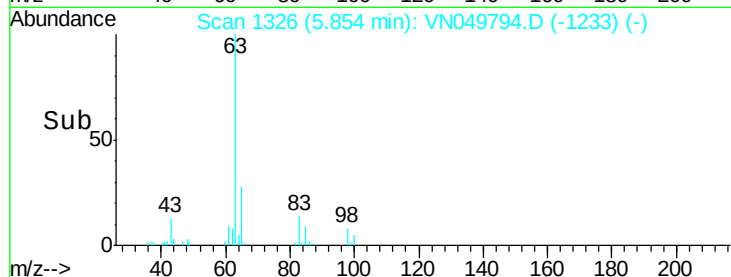
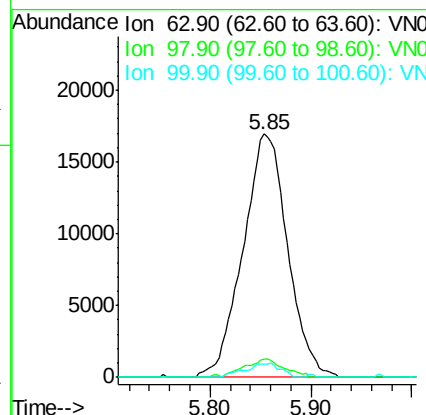
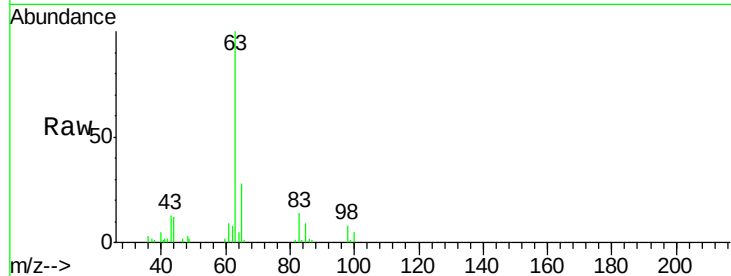
#24
 1,1-Dichloroethane
 Concen: 2.16 ug/l
 RT: 5.85 min Scan# 1326
 Delta R.T. 0.00 min
 Lab File: VN049794.D
 Acq: 13 Jul 2018 13:58

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT3-2018

Tot Ion	Ratio	Resp	Lower	Upper
63	100	52035		
98	7.7		3.4	10.2
100	5.2		2.2	6.6

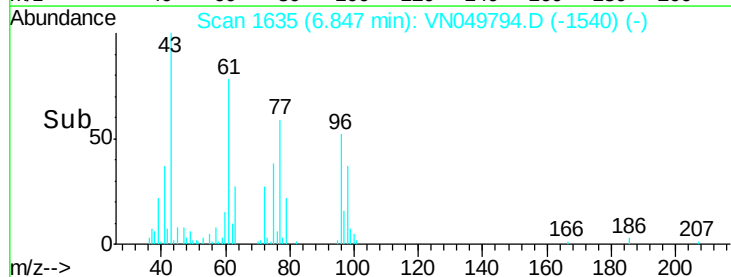
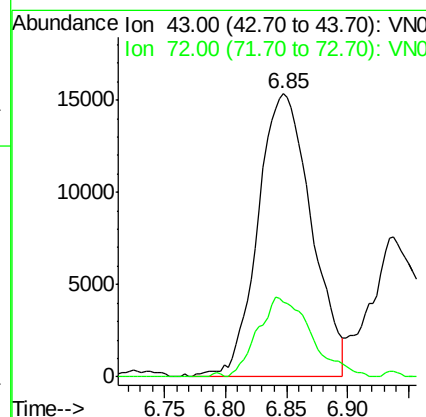
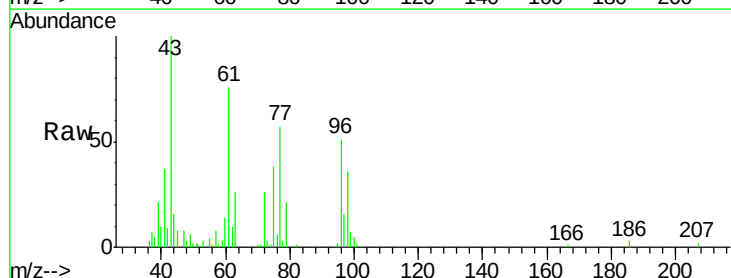
Manual Integrations
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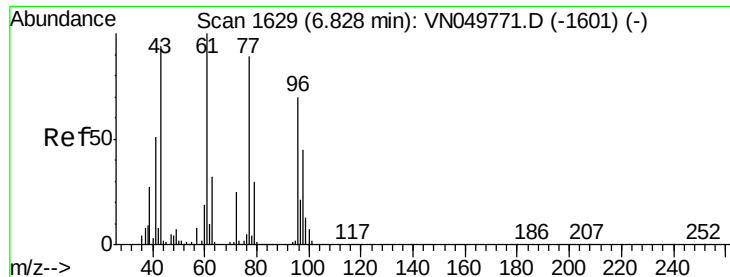
MMDadoda
 7/16/2018 11:25:27 AM



#25
 2-Butanone
 Concen: 9.72 ug/l
 RT: 6.85 min Scan# 1635
 Delta R.T. 0.01 min
 Lab File: VN049794.D
 Acq: 13 Jul 2018 13:58

Tgt Ion	Ratio	Resp	Lower	Upper
43	100	46697		
72	26.4		22.1	33.1





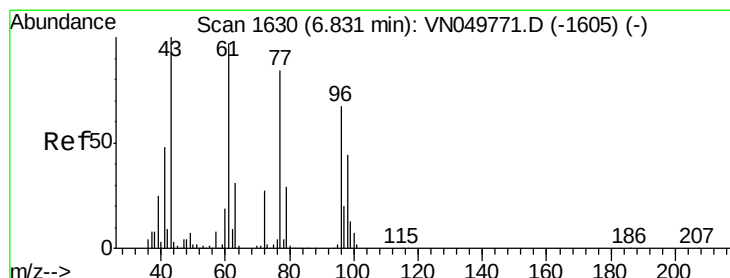
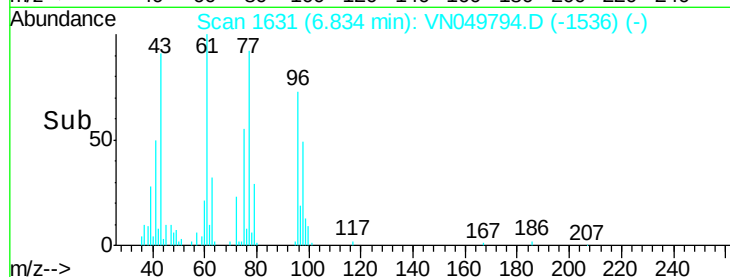
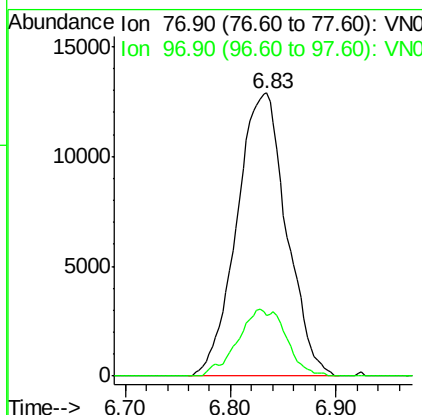
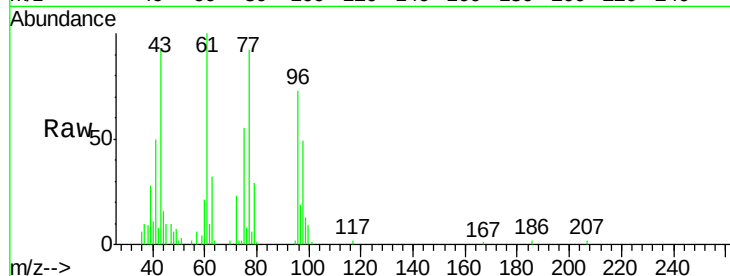
#26
 2,2-Dichloropropane
 Concen: 2.11 ug/l
 RT: 6.83 min Scan# 1631
 Delta R.T. 0.01 min
 Lab File: VN049794.D
 Acq: 13 Jul 2018 13:58

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT3-2018

Tot Ion: 77 Resp: 42186
 Ion Ratio Lower Upper
 77 100
 97 14.0 11.9 35.5

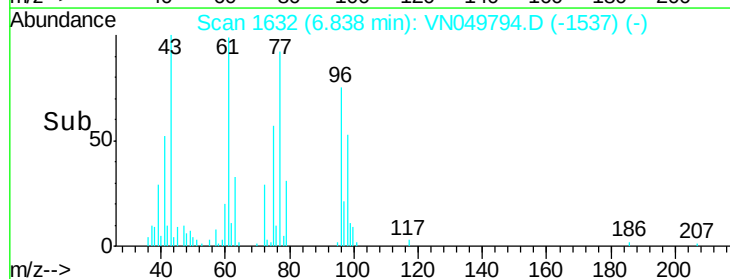
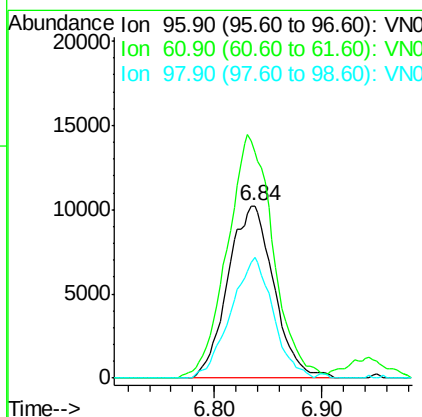
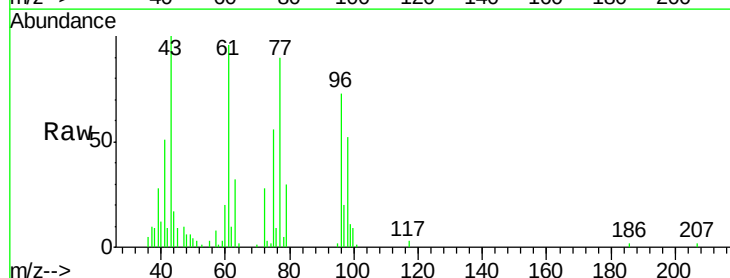
Manual Integrations
 APPROVED

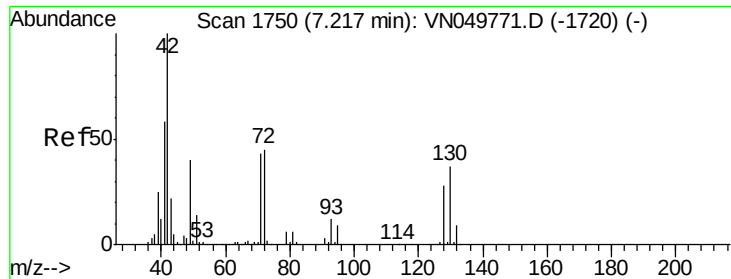
MMDadoda
 7/16/2018 11:25:27 AM



#27
 cis-1,2-Dichloroethene
 Concen: 2.12 ug/l
 RT: 6.84 min Scan# 1632
 Delta R.T. 0.01 min
 Lab File: VN049794.D
 Acq: 13 Jul 2018 13:58

Tgt Ion: 96 Resp: 30286
 Ion Ratio Lower Upper
 96 100
 61 140.9 0.0 289.0
 98 64.3 0.0 130.2





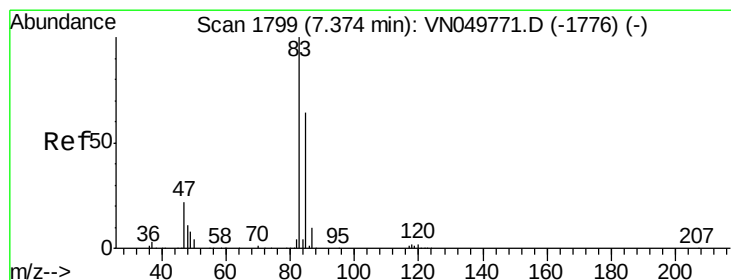
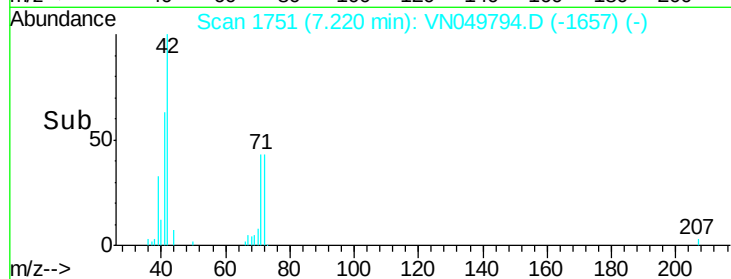
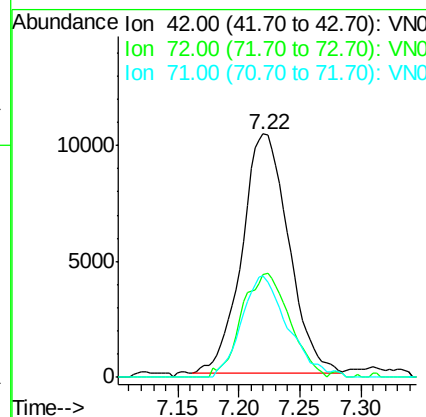
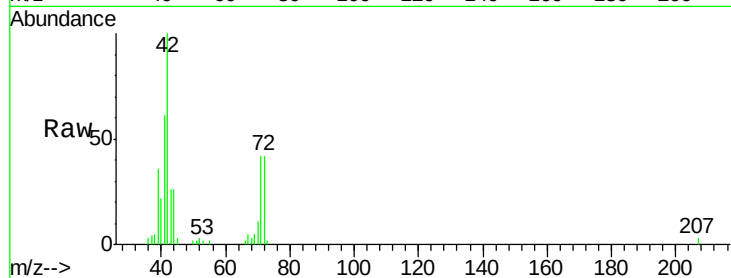
#29
Tetrahydrofuran
Concen: 9.05 ug/l
RT: 7.22 min Scan# 1751
Delta R.T. 0.00 min
Lab File: VN049794.D
Acq: 13 Jul 2018 13:58

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT3-2018

Tot Ion	Ratio	Lower	Upper
42	100		
72	44.7	35.6	53.4
71	42.1	34.0	51.0

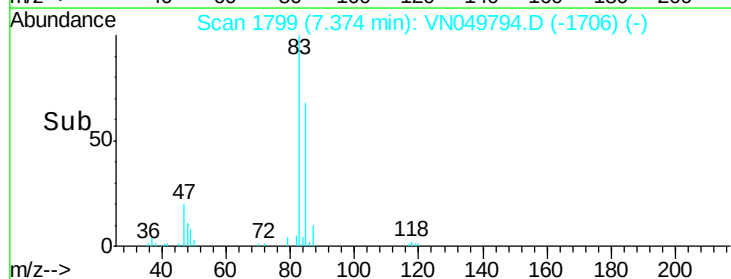
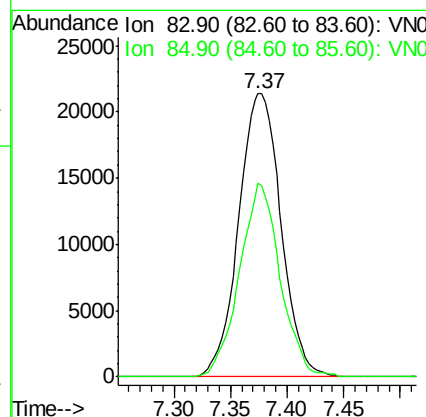
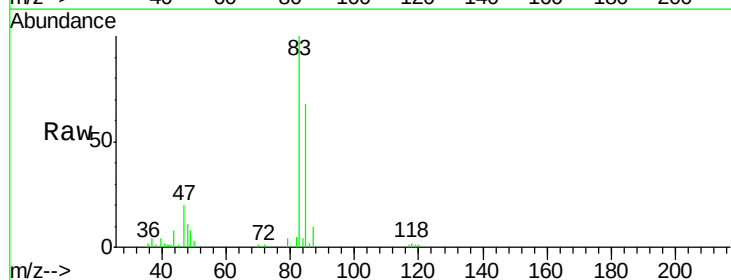
Manual Integrations
APPROVED

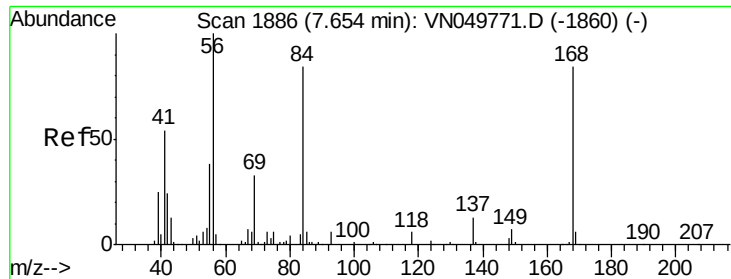
MMDadoda
7/16/2018 11:25:27 AM



#30
Chloroform
Concen: 2.24 ug/l
RT: 7.37 min Scan# 1799
Delta R.T. 0.00 min
Lab File: VN049794.D
Acq: 13 Jul 2018 13:58

Tgt Ion	Ratio	Lower	Upper
83	100		
85	68.3	51.4	77.2





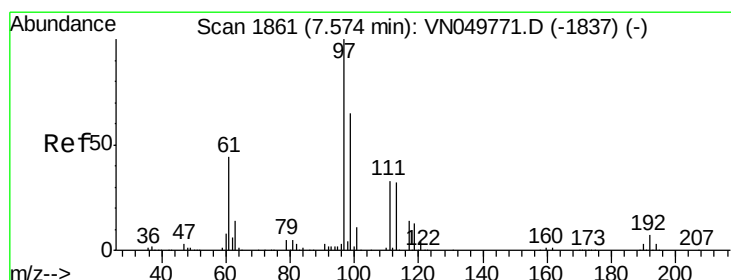
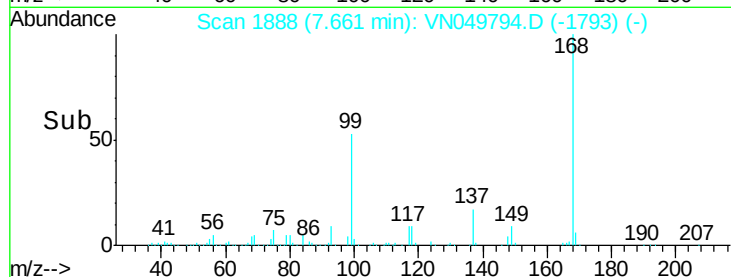
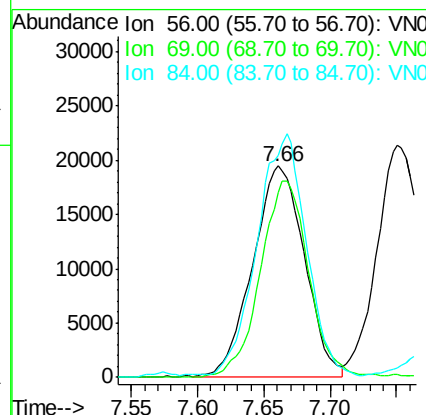
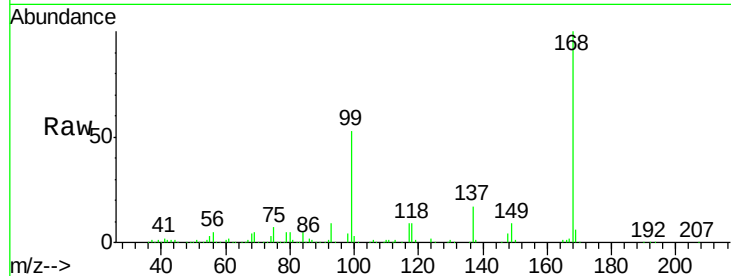
#31
Cyclohexane
Concen: 2.51 ug/l
RT: 7.66 min Scan# 1888
Delta R.T. 0.01 min
Lab File: VN049794.D
Acq: 13 Jul 2018 13:58

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT3-2018

Tot Ion	Ratio	Lower	Upper
56	100		
69	87.4	26.6	40.0#
84	102.6	69.0	103.6

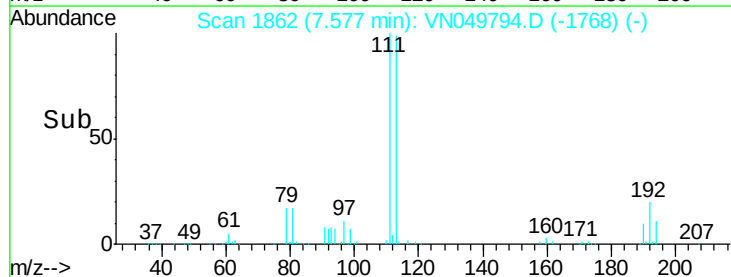
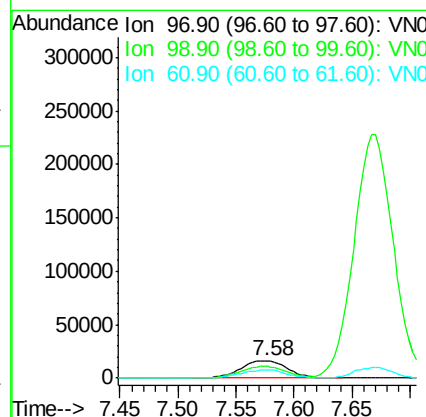
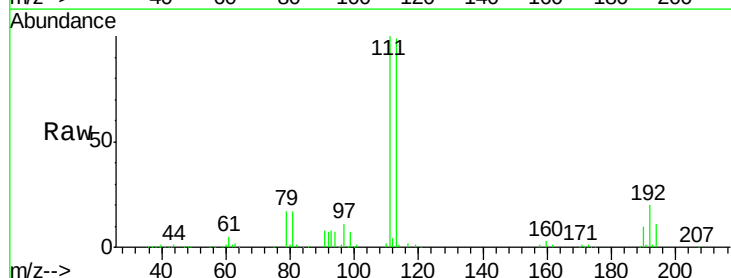
Manual Integrations
APPROVED

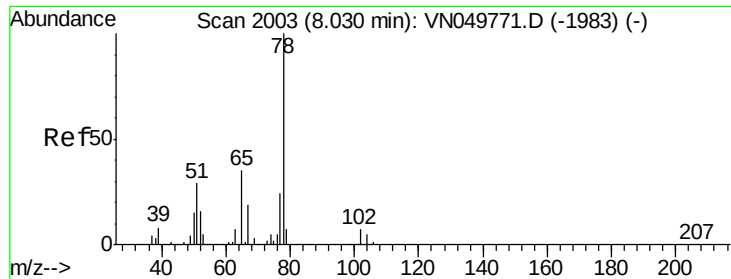
MMDadoda
7/16/2018 11:25:27 AM



#32
1,1,1-Trichloroethane
Concen: 2.15 ug/l
RT: 7.58 min Scan# 1862
Delta R.T. 0.00 min
Lab File: VN049794.D
Acq: 13 Jul 2018 13:58

Tgt Ion	Ratio	Lower	Upper
97	100		
99	66.5	51.0	76.4
61	45.9	35.5	53.3





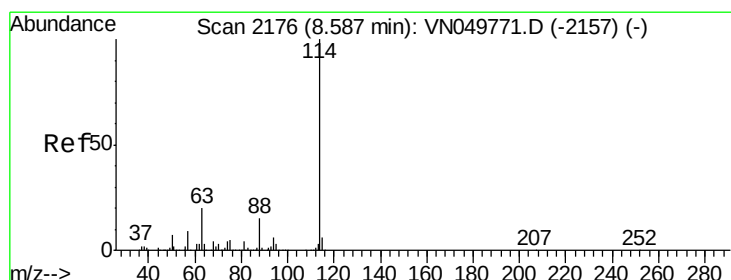
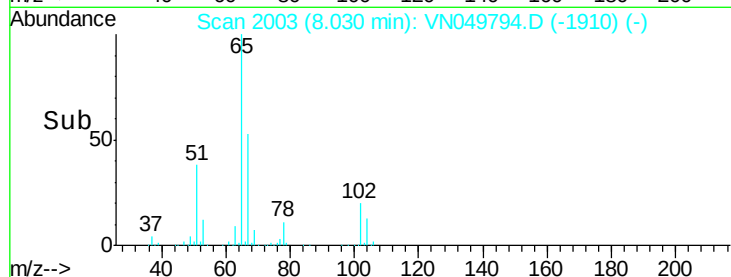
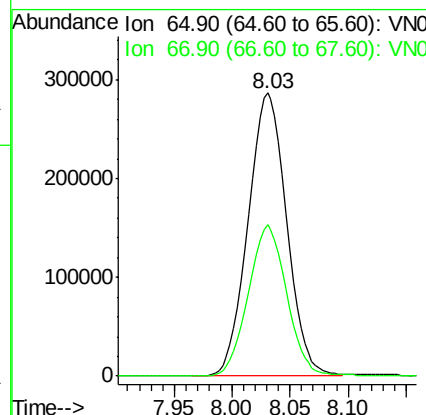
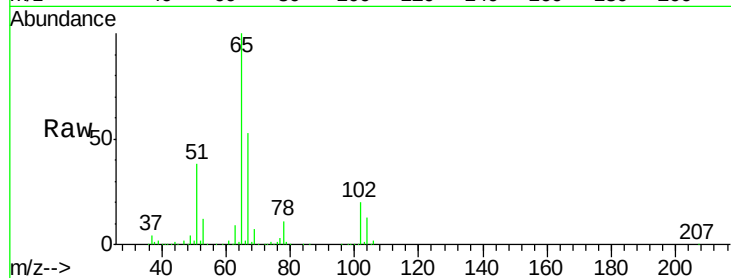
#33
 1,2-Dichloroethane-d4
 Concen: 53.91 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN049794.D
 Acq: 13 Jul 2018 13:58

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT3-2018

Tot Ion	Ratio	Resp	Lower	Upper
65	100	664331		
67	53.2	0.0	107.2	

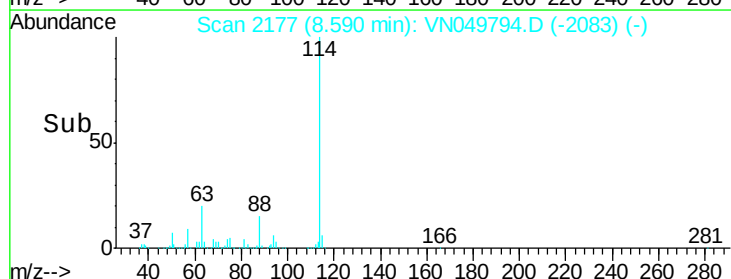
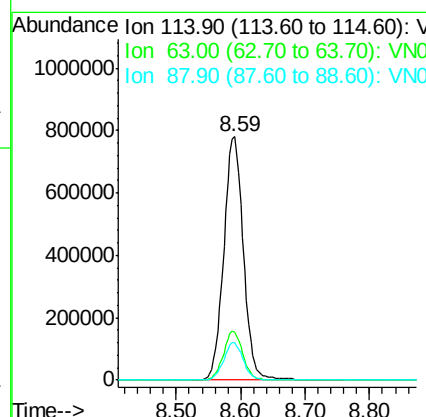
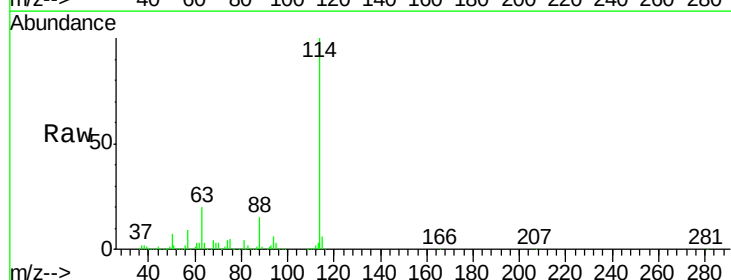
Manual Integrations
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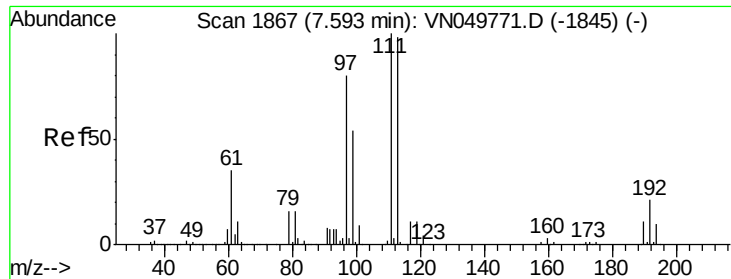
MMDadoda
 7/16/2018 11:25:27 AM



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN049794.D
 Acq: 13 Jul 2018 13:58

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	1642563		
63	19.9	0.0	39.8	
88	15.3	0.0	30.6	





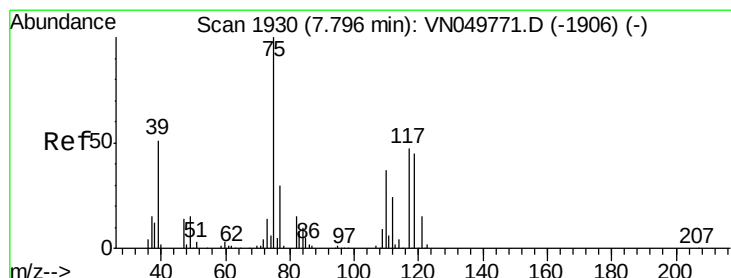
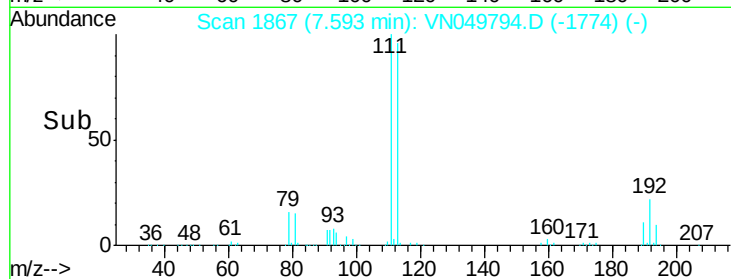
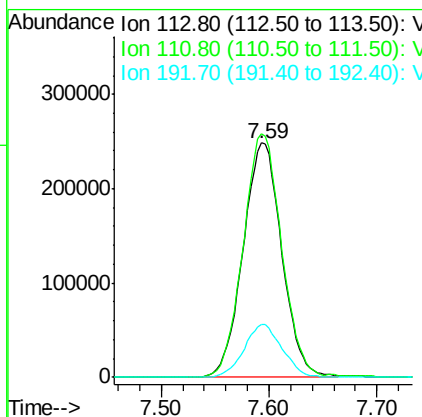
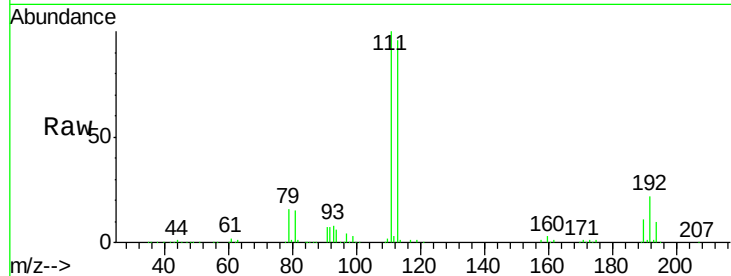
#35
 Dibromofluoromethane
 Concen: 50.01 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN049794.D
 Acq: 13 Jul 2018 13:58

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT3-2018

Tot Ion	Ratio	Resp	Lower	Upper
113	100	619161		
111	103.0	81.8	122.8	
192	22.2	17.8	26.6	

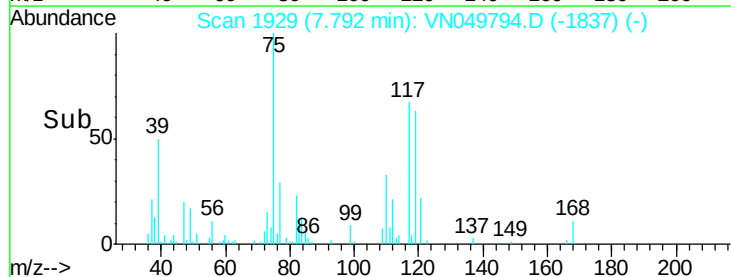
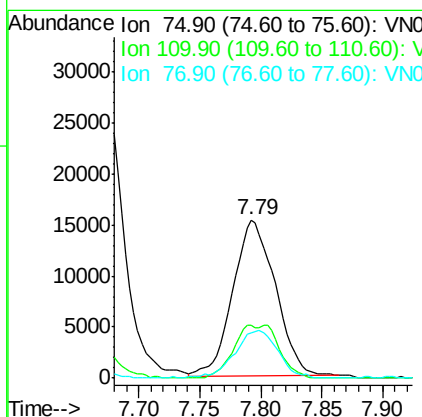
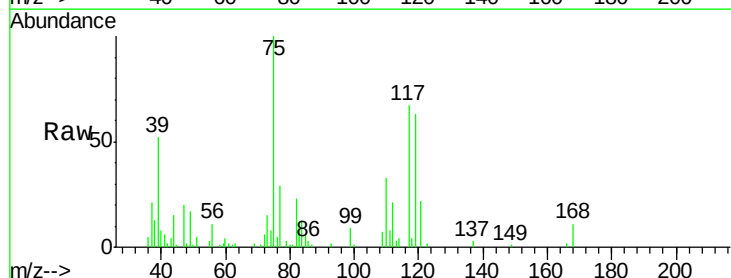
Manual Integrations
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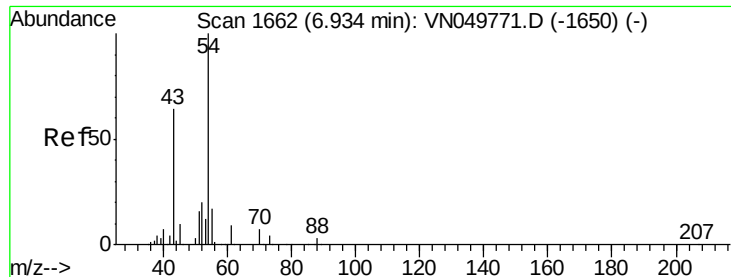
MMDadoda
 7/16/2018 11:25:27 AM



#36
 1,1-Dichloropropene
 Concen: 1.97 ug/l
 RT: 7.79 min Scan# 1929
 Delta R.T. -0.00 min
 Lab File: VN049794.D
 Acq: 13 Jul 2018 13:58

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	37221		
110	18.2	18.1	54.4	
77	30.8	24.9	37.3	





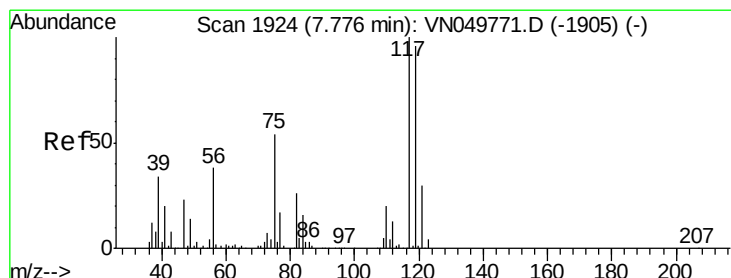
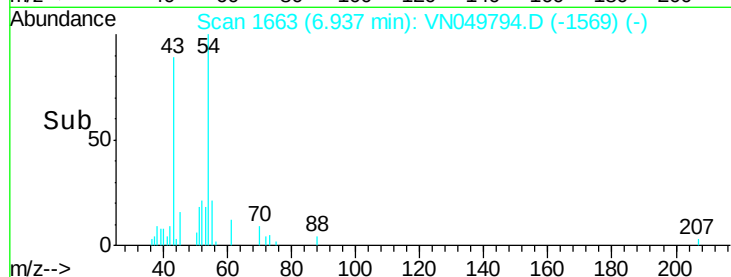
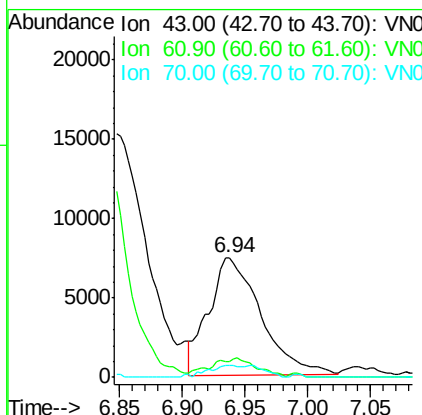
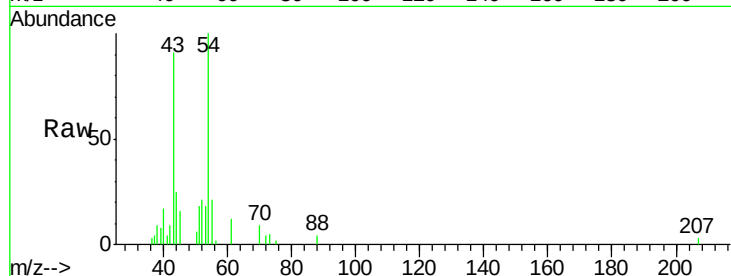
#37
Ethyl Acetate
Concen: 1.93 ug/l
RT: 6.94 min Scan# 1663
Delta R.T. 0.00 min
Lab File: VN049794.D
Acq: 13 Jul 2018 13:58

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT3-2018

Tot Ion	43	Resp	21629
Ion Ratio	100	Lower	Upper
43	100		
61	14.7	11.7	17.5
70	6.9	8.4	12.6

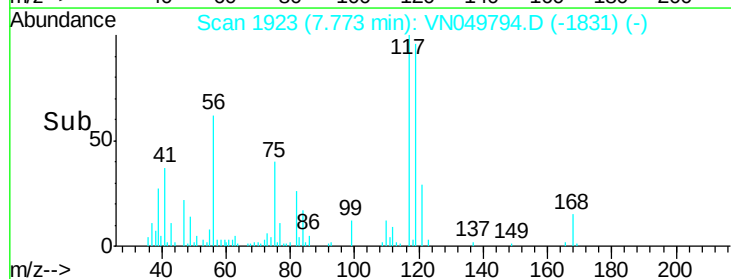
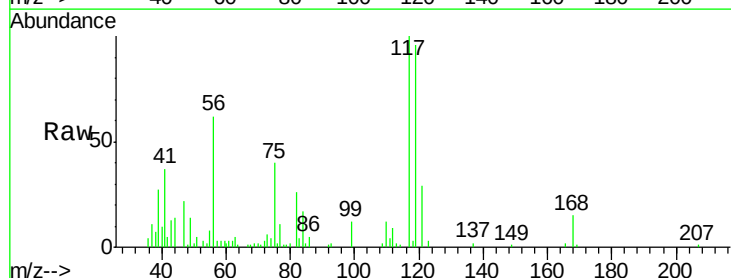
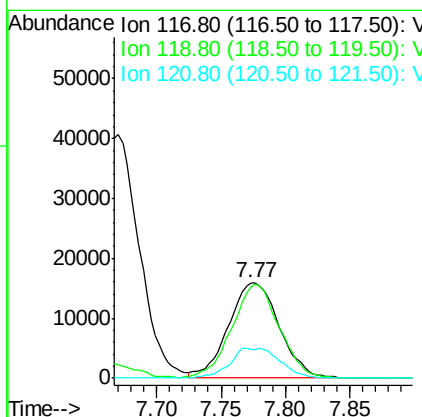
Manual Integrations
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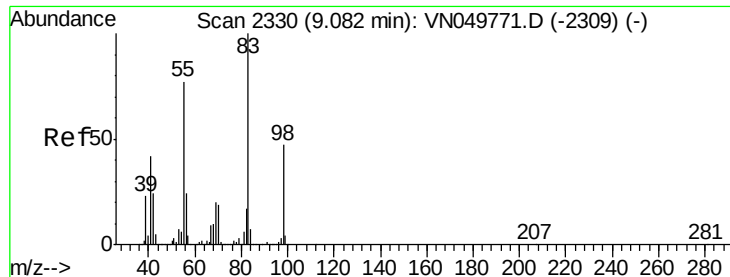
MMDadoda
7/16/2018 11:25:27 AM



#38
Carbon Tetrachloride
Concen: 2.20 ug/l
RT: 7.77 min Scan# 1923
Delta R.T. -0.00 min
Lab File: VN049794.D
Acq: 13 Jul 2018 13:58

Tgt Ion	117	Resp	43525
Ion Ratio	100	Lower	Upper
117	100		
119	95.7	77.2	115.8
121	29.3	25.0	37.6





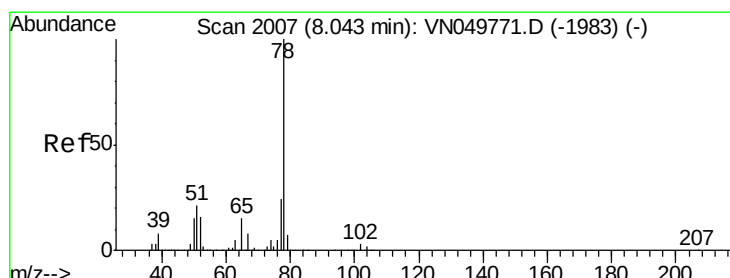
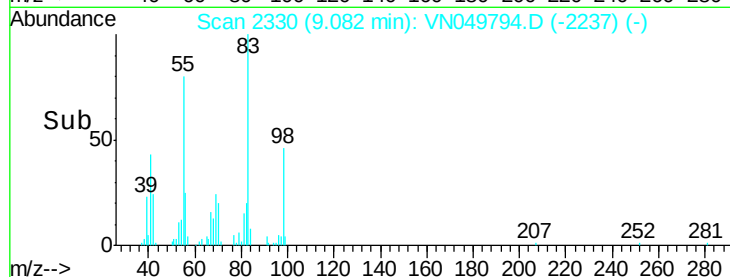
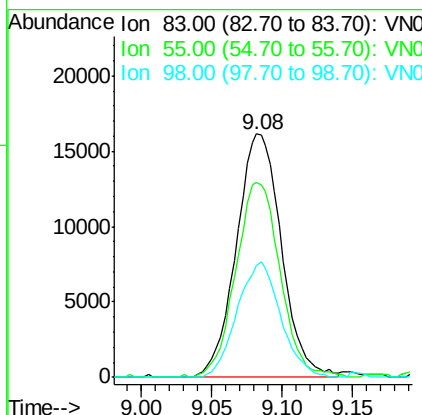
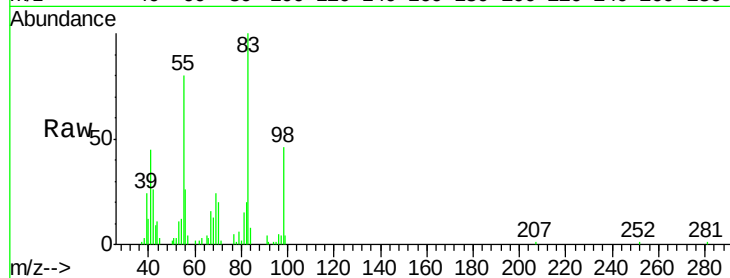
#39
Methylvlcyclohexane
Concen: 1.81 ug/l
RT: 9.08 min Scan# 2330
Delta R.T. 0.00 min
Lab File: VN049794.D
Acq: 13 Jul 2018 13:58

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT3-2018

Tot Ion	Ratio	Lower	Upper
83	100		
55	80.2	59.7	89.5
98	45.7	36.5	54.7

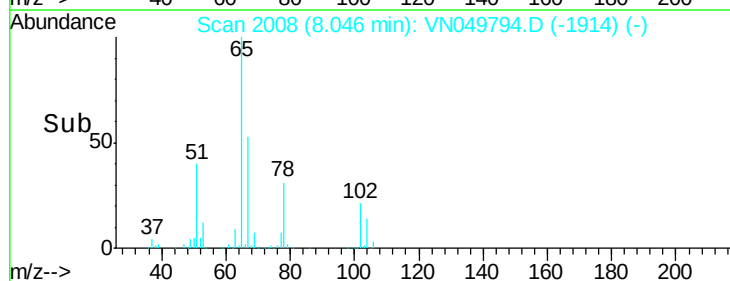
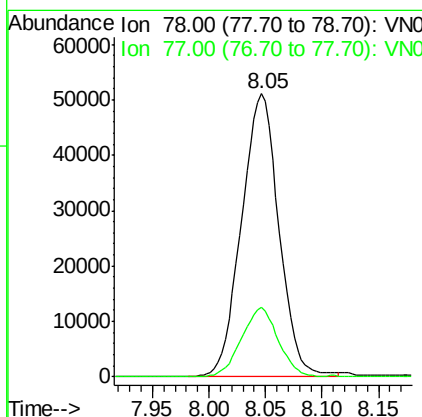
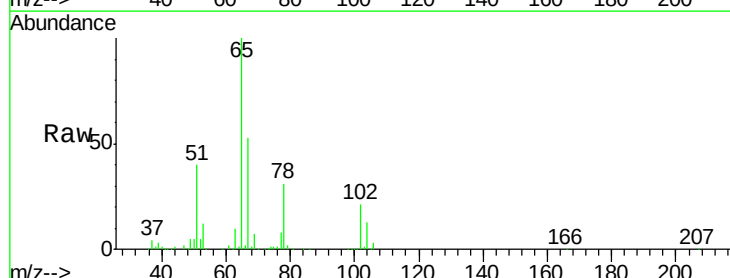
Manual Integrations
APPROVED

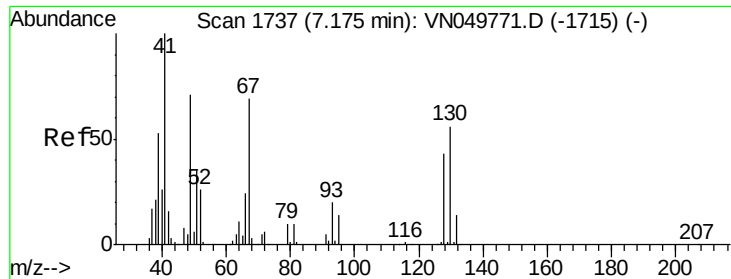
MMDadoda
7/16/2018 11:25:27 AM



#40
Benzene
Concen: 2.08 ug/l
RT: 8.05 min Scan# 2008
Delta R.T. 0.00 min
Lab File: VN049794.D
Acq: 13 Jul 2018 13:58

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.6	19.0	28.4





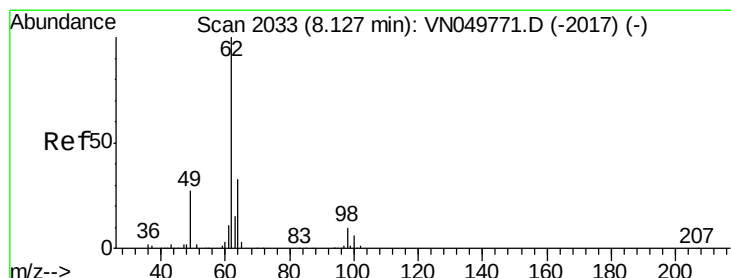
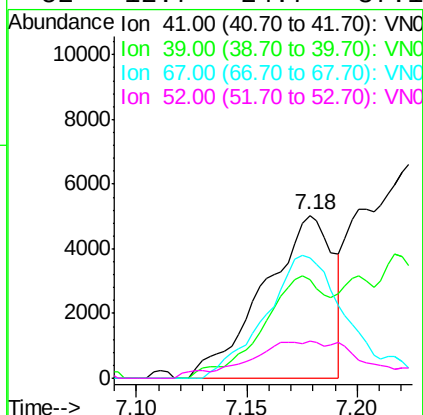
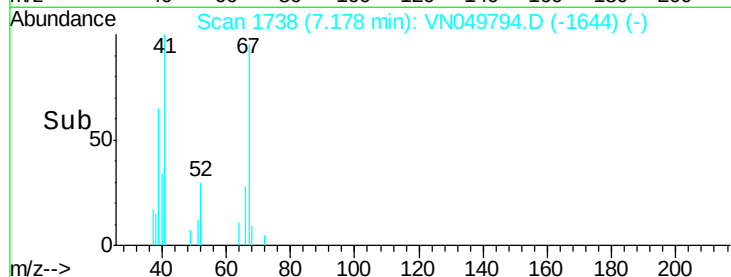
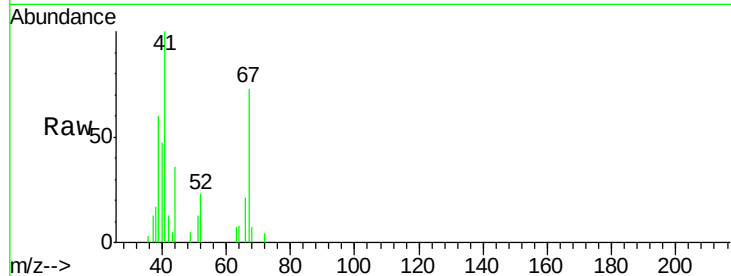
#41
Methacrylonitrile
Concen: 1.72 ug/l
RT: 7.18 min Scan# 1738
Delta R.T. 0.00 min
Lab File: VN049794.D
Acq: 13 Jul 2018 13:58

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT3-2018

Tot Ion	Ratio	Lower	Upper
41	100		
39	57.7	45.4	68.2
67	90.6	65.4	98.0
52	12.7	24.7	37.1#

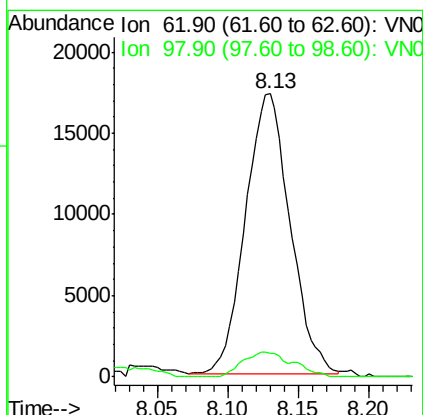
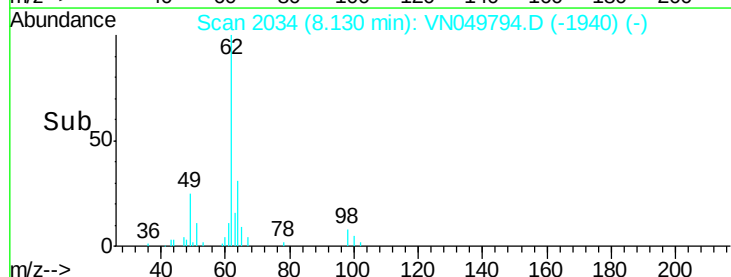
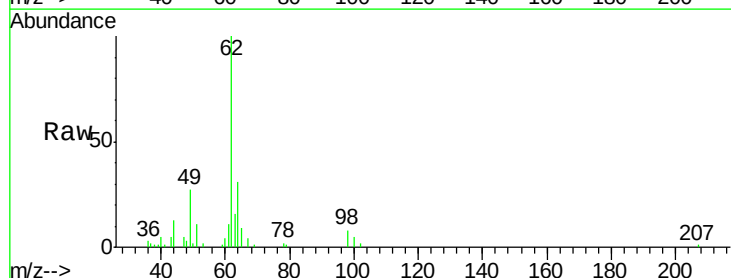
Manual Integrations
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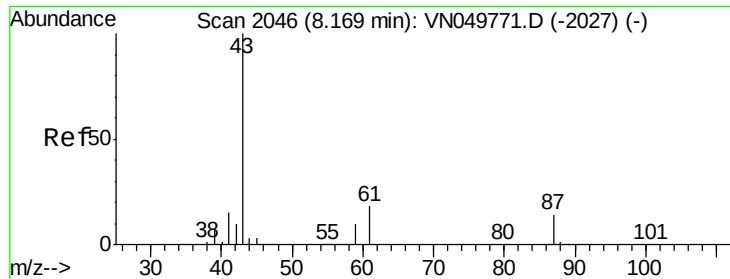
MMDadoda
7/16/2018 11:25:27 AM



#42
1,2-Dichloroethane
Concen: 2.05 ug/l
RT: 8.13 min Scan# 2034
Delta R.T. 0.00 min
Lab File: VN049794.D
Acq: 13 Jul 2018 13:58

Tgt Ion	Ratio	Lower	Upper
62	100		
98	10.0	0.0	19.0





#43

Isopropyl Acetate

Concen: 1.84 ug/l

RT: 8.17 min Scan# 2047

Delta R.T. 0.00 min

Lab File: VN049794.D

Acq: 13 Jul 2018 13:58

Instrument :

MSVOA_N

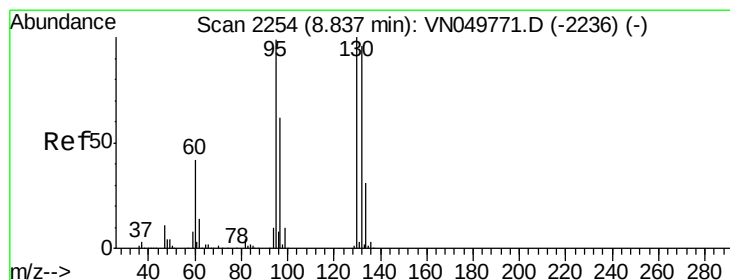
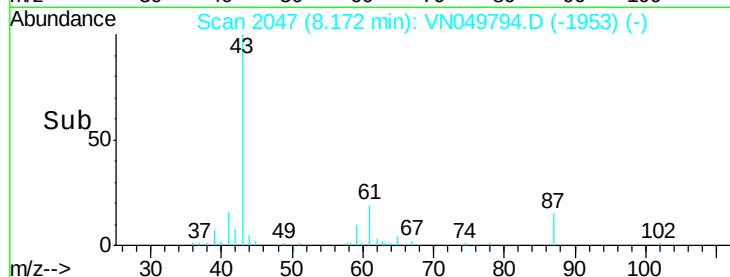
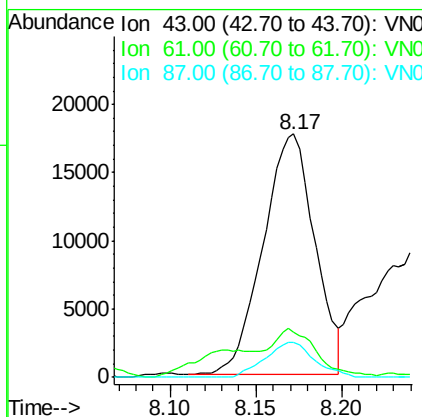
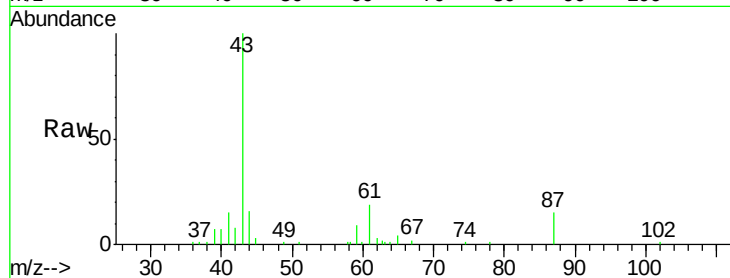
ClientSampleId :

LOQ-WATER-02-QT3-2018

Tot Ion:	43	Resp:	36974
Ion	Ratio	Lower	Upper
43	100		
61	16.0	14.9	22.3
87	13.7	10.0	15.0

Manual Integrations
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MMDadoda
7/16/2018 11:25:27 AM



#44

Trichloroethene

Concen: 2.11 ug/l

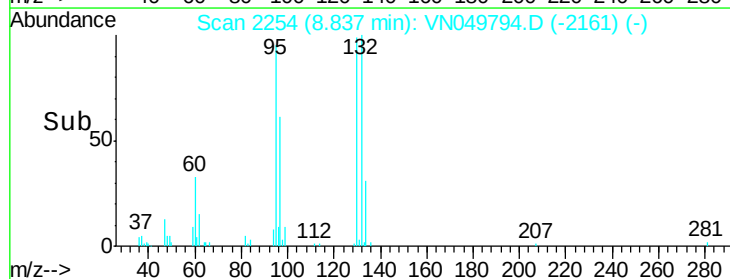
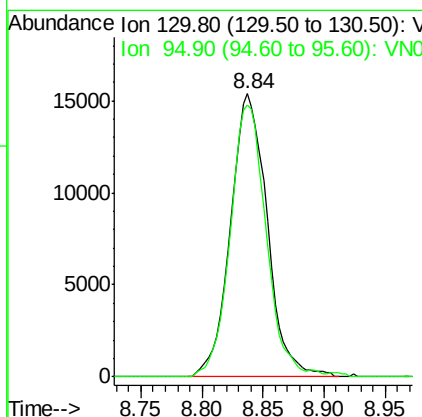
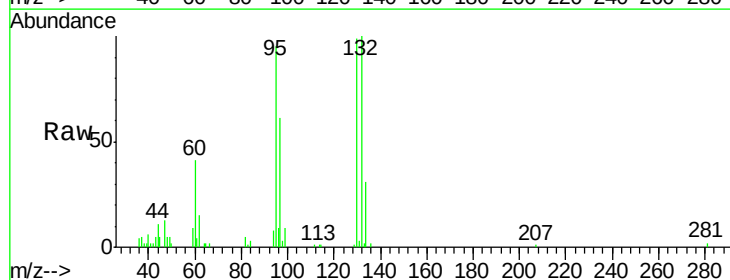
RT: 8.84 min Scan# 2254

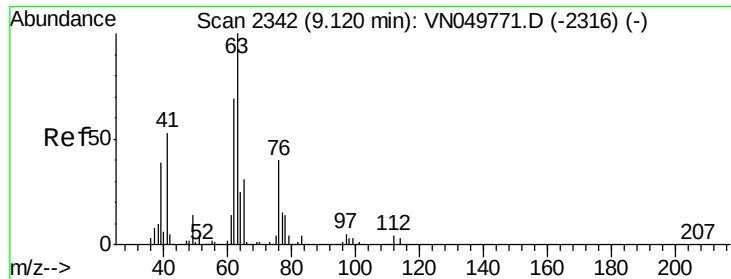
Delta R.T. 0.00 min

Lab File: VN049794.D

Acq: 13 Jul 2018 13:58

Tgt Ion:	130	Resp:	32105
Ion	Ratio	Lower	Upper
130	100		
95	96.1	0.0	192.8





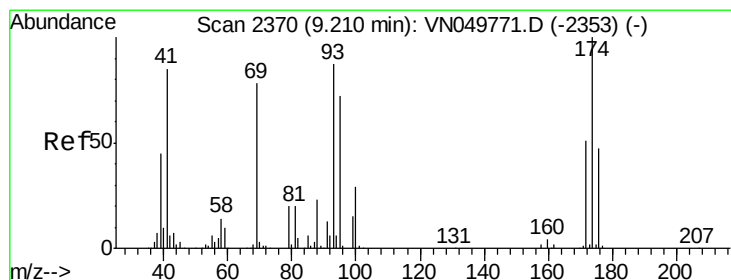
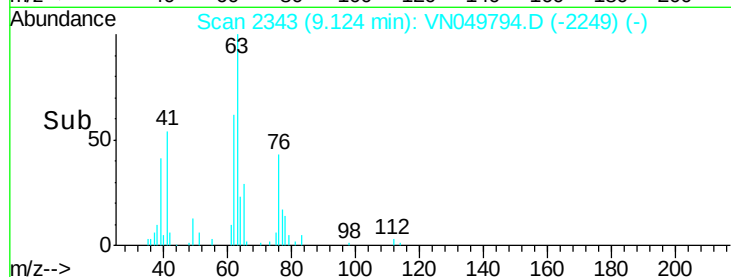
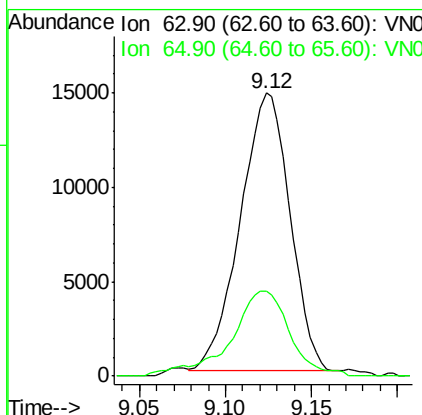
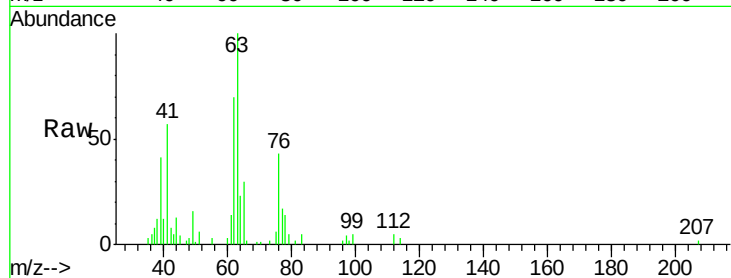
#45
 1,2-Dichloropropane
 Concen: 1.94 ug/l
 RT: 9.12 min Scan# 2343
 Delta R.T. 0.00 min
 Lab File: VN049794.D
 Acq: 13 Jul 2018 13:58

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT3-2018

Tot Ion: 63 Resp: 29513
 Ion Ratio Lower Upper
 63 100
 65 28.4 24.7 37.1

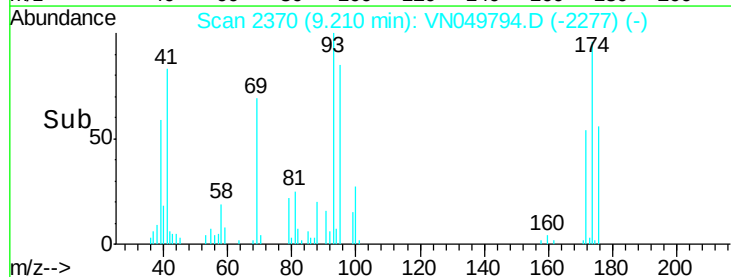
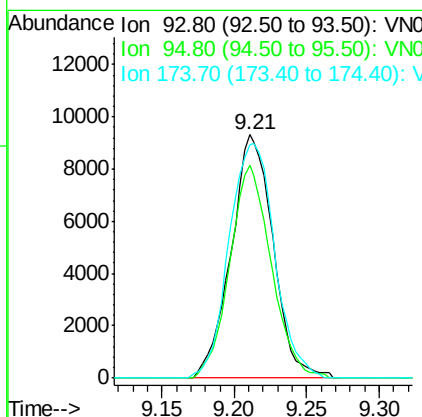
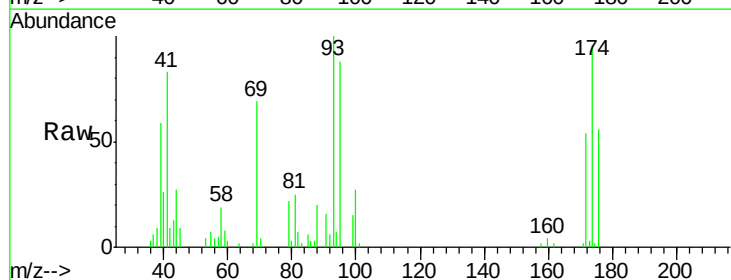
Manual Integrations
 APPROVED

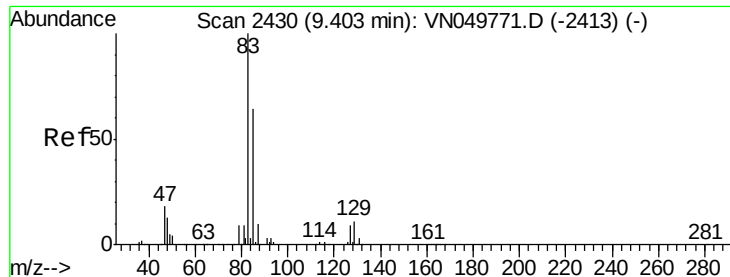
MMDadoda
 7/16/2018 11:25:27 AM



#46
 Dibromomethane
 Concen: 2.08 ug/l
 RT: 9.21 min Scan# 2370
 Delta R.T. 0.00 min
 Lab File: VN049794.D
 Acq: 13 Jul 2018 13:58

Tgt Ion: 93 Resp: 18779
 Ion Ratio Lower Upper
 93 100
 95 86.1 67.9 101.9
 174 104.5 89.4 134.0





#47

Bromodichloromethane

Concen: 2.10 ug/l

RT: 9.41 min Scan# 2431

Delta R.T. 0.00 min

Lab File: VN049794.D

Acq: 13 Jul 2018 13:58

Instrument :

MSVOA_N

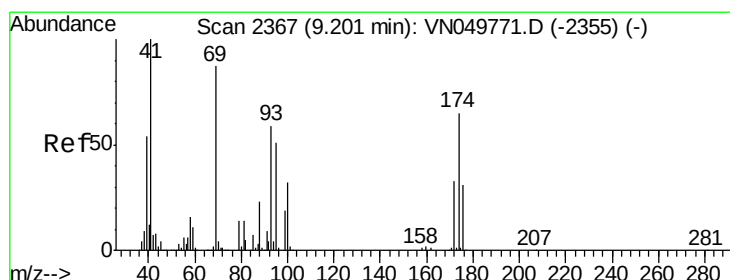
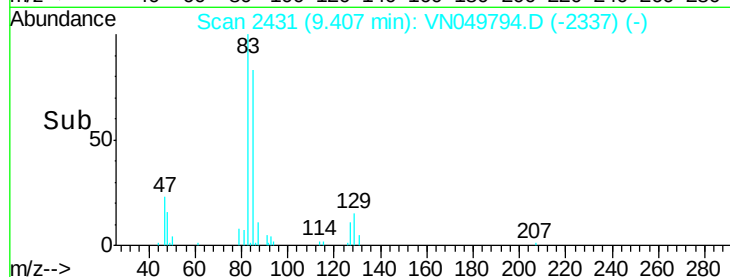
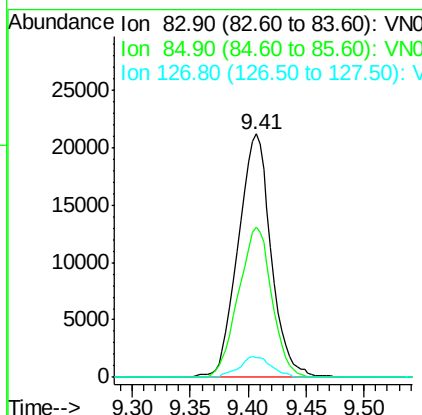
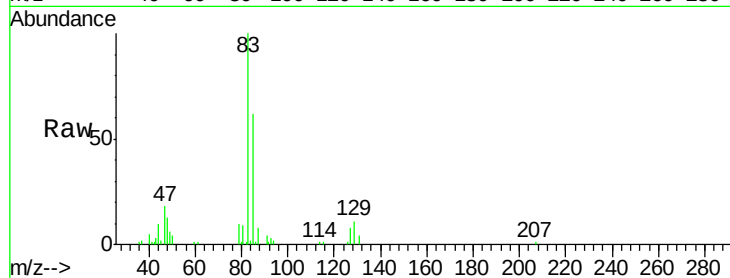
ClientSampleId :

LOQ-WATER-02-QT3-2018

Tot Ion:	83	Resp:	41865
Ion	Ratio	Lower	Upper
83	100		
85	61.6	50.5	75.7
127	8.3	6.8	10.2

Manual Integrations
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MMDadoda
7/16/2018 11:25:27 AM



#48

Methyl methacrylate

Concen: 1.69 ug/l

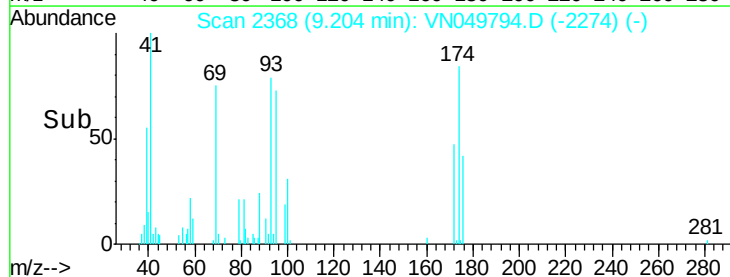
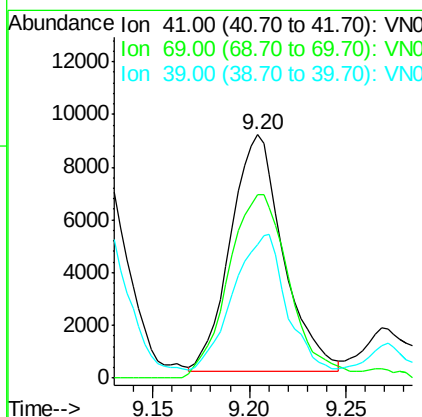
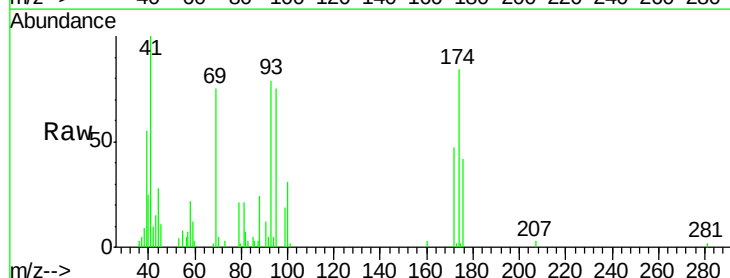
RT: 9.20 min Scan# 2368

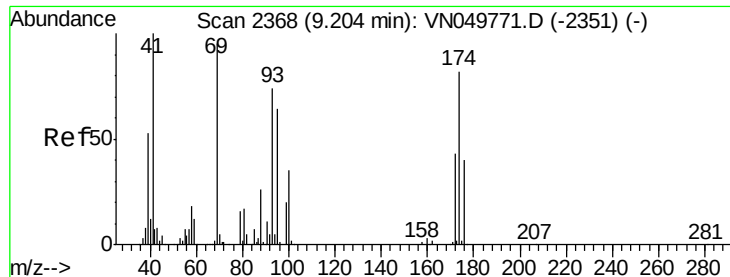
Delta R.T. 0.00 min

Lab File: VN049794.D

Acq: 13 Jul 2018 13:58

Tgt Ion:	41	Resp:	17059
Ion	Ratio	Lower	Upper
41	100		
69	89.2	71.5	107.3
39	61.0	44.7	67.1





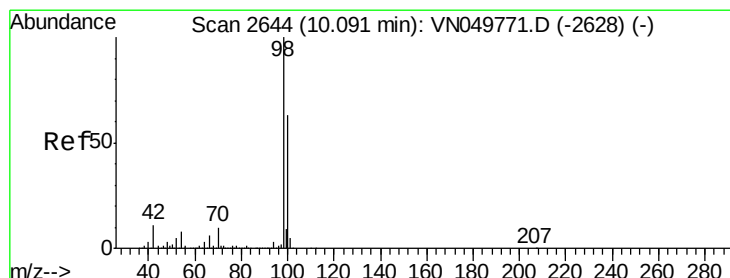
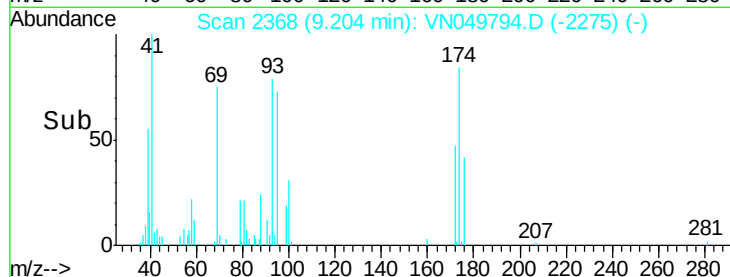
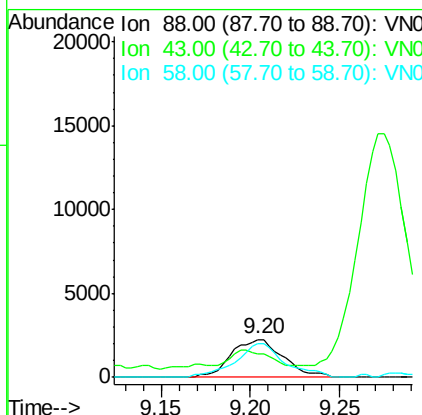
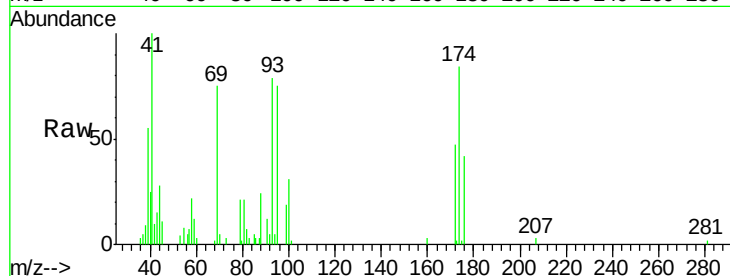
#49
1,4-Dioxane
Concen: 34.53 ug/l
RT: 9.20 min Scan# 2368
Delta R.T. 0.00 min
Lab File: VN049794.D
Acq: 13 Jul 2018 13:58

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT3-2018

Tot Ion	Ratio	Lower	Upper
88	100		
43	28.4	25.1	37.7
58	84.7	52.5	78.7#

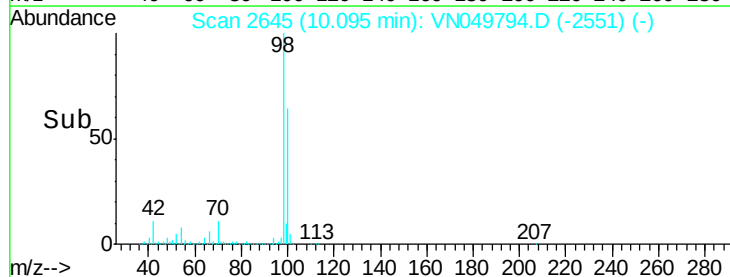
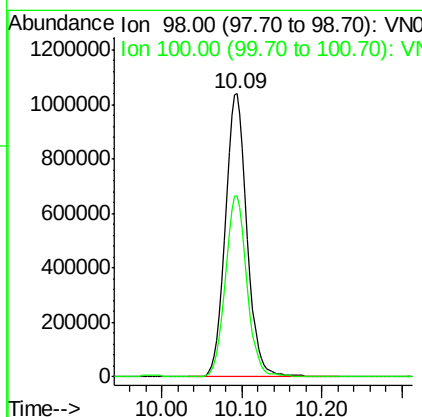
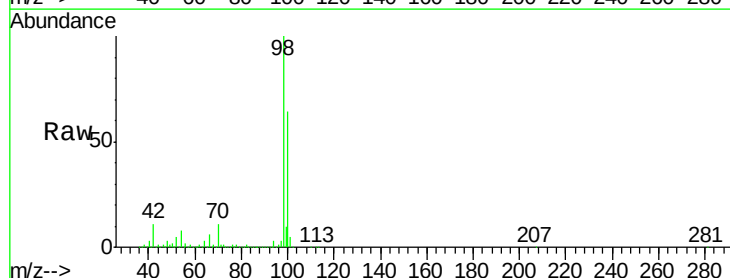
Manual Integrations
APPROVED

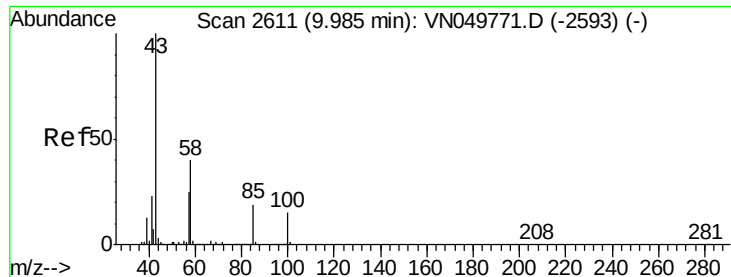
MMDadoda
7/16/2018 11:25:27 AM



#50
Toluene-d8
Concen: 45.76 ug/l
RT: 10.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VN049794.D
Acq: 13 Jul 2018 13:58

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.0	51.7	77.5





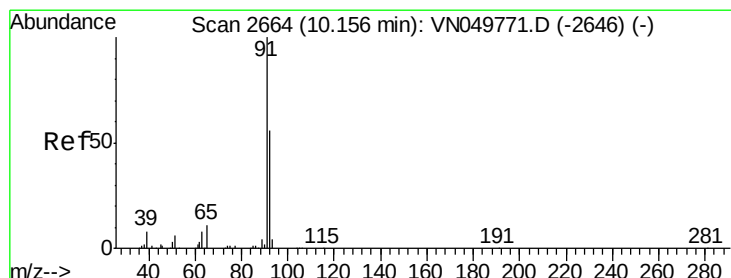
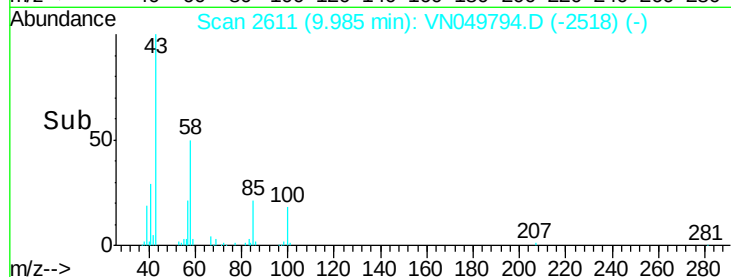
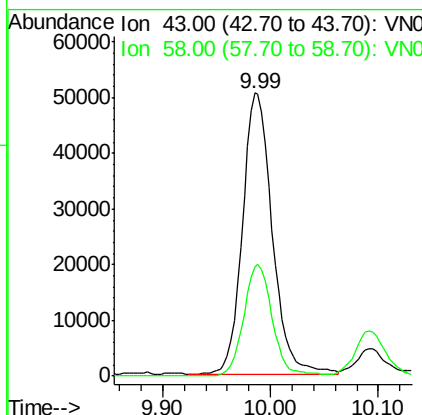
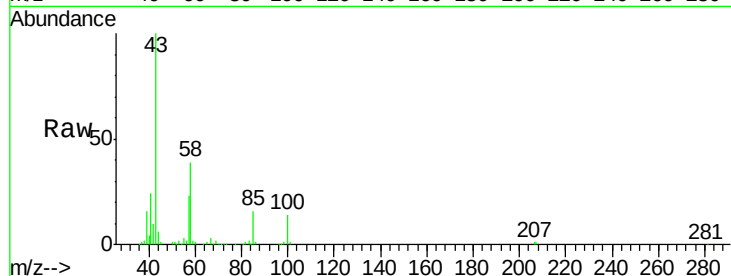
#51
4-Methyl-2-Pentanone
Concen: 8.92 ug/l
RT: 9.99 min Scan# 2611
Delta R.T. 0.00 min
Lab File: VN049794.D
Acq: 13 Jul 2018 13:58

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT3-2018

Tot Ion	Ratio	Lower	Upper
43	100		
58	37.9	31.8	47.8

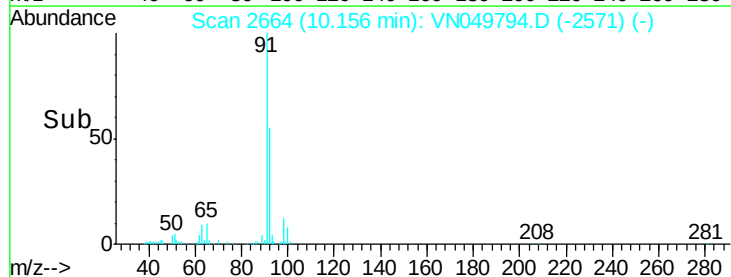
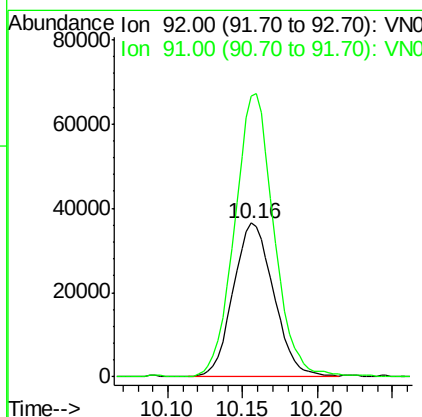
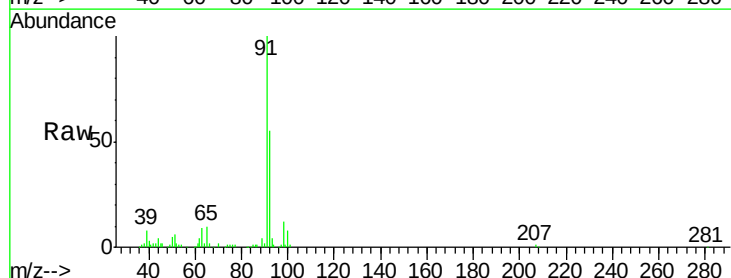
Manual Integrations
APPROVED

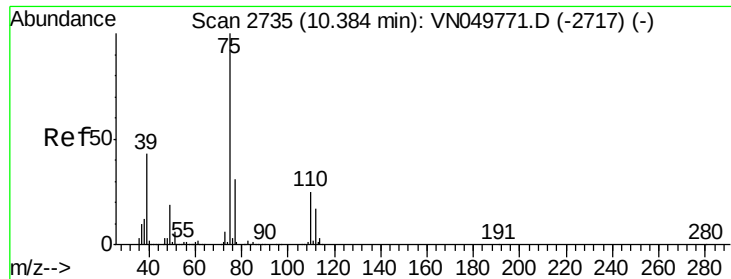
MMDadoda
7/16/2018 11:25:27 AM



#52
Toluene
Concen: 2.04 ug/l
RT: 10.16 min Scan# 2664
Delta R.T. 0.00 min
Lab File: VN049794.D
Acq: 13 Jul 2018 13:58

Tgt Ion	Ratio	Lower	Upper
92	100		
91	177.6	140.1	210.1





#53

t-1,3-Dichloropropene

Concen: 1.81 ug/l

RT: 10.38 min Scan# 2735

Delta R.T. 0.00 min

Lab File: VN049794.D

Acq: 13 Jul 2018 13:58

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT3-2018

Tot Ion: 75 Resp: 34586

Ion Ratio Lower Upper

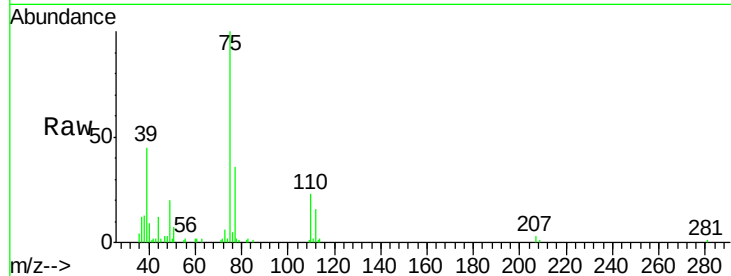
75 100

77 30.7 25.2 37.8

Manual Integrations
APPROVED

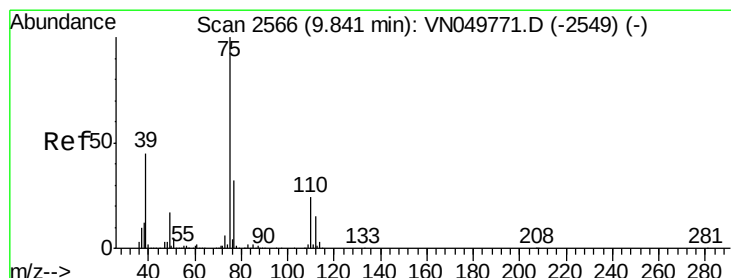
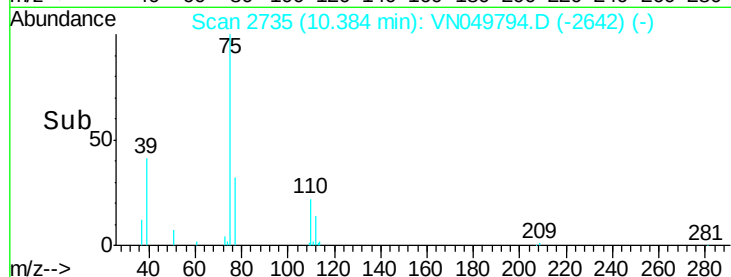
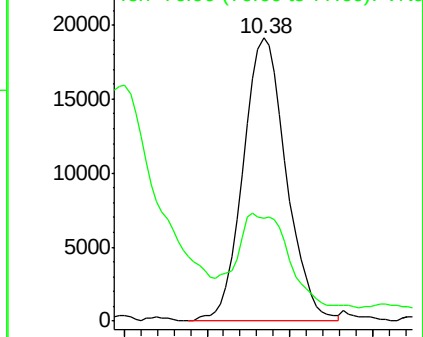
MMDadoda

7/16/2018 11:25:27 AM



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



#54

cis-1,3-Dichloropropene

Concen: 1.82 ug/l

RT: 9.84 min Scan# 2566

Delta R.T. 0.00 min

Lab File: VN049794.D

Acq: 13 Jul 2018 13:58

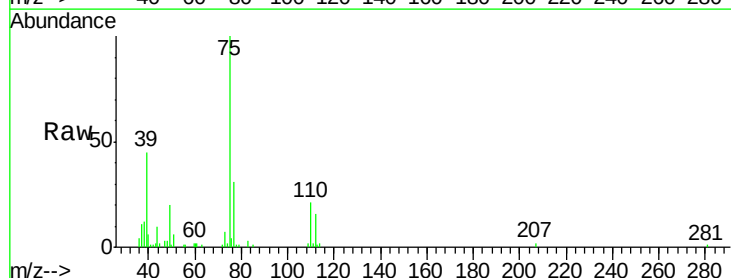
Tgt Ion: 75 Resp: 39583

Ion Ratio Lower Upper

75 100

77 31.4 25.3 37.9

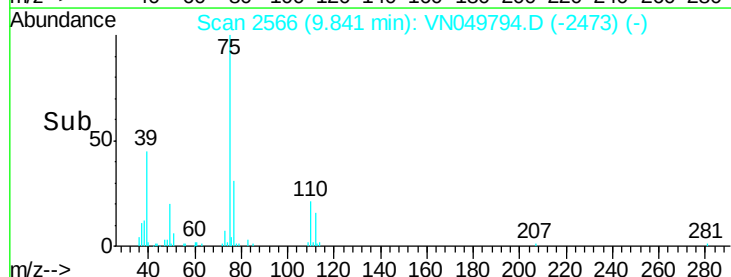
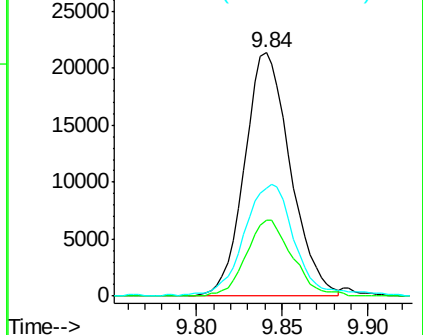
39 43.7 35.5 53.3

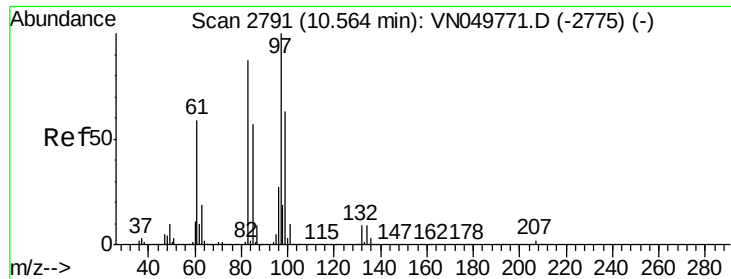


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





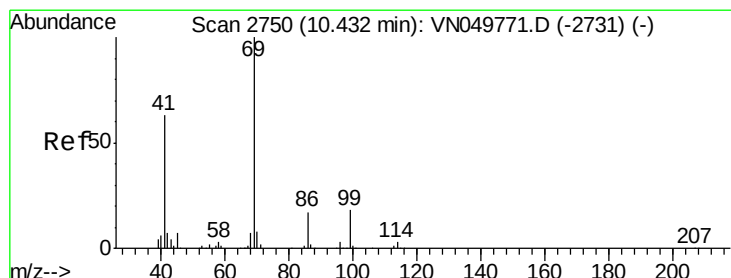
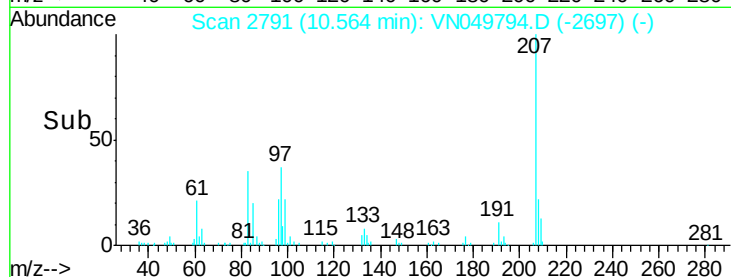
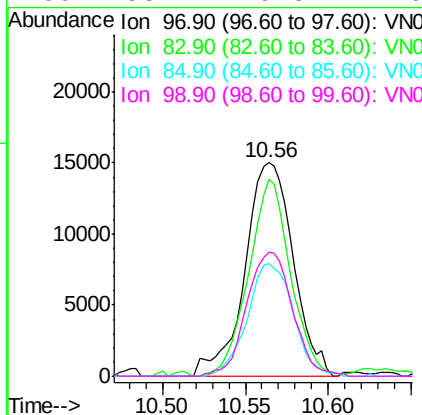
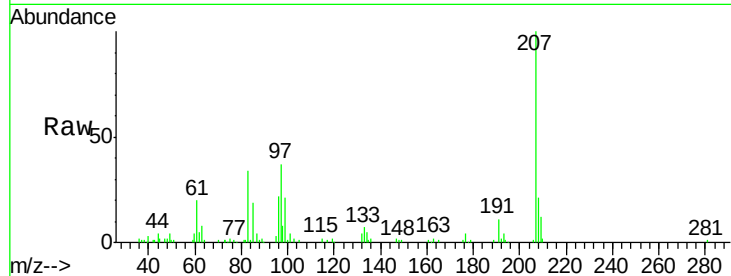
#55
 1,1,2-Trichloroethane
 Concen: 1.72 ug/l
 RT: 10.56 min Scan# 2791
 Delta R.T. 0.00 min
 Lab File: VN049794.D
 Acq: 13 Jul 2018 13:58

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT3-2018

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		30510		
83	90.9	69.0	103.6		
85	52.5	44.9	67.3		
99	58.1	49.8	74.6		

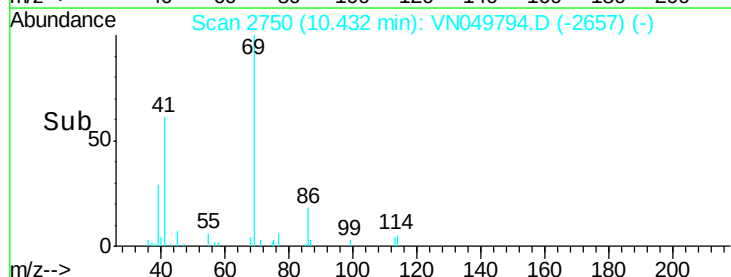
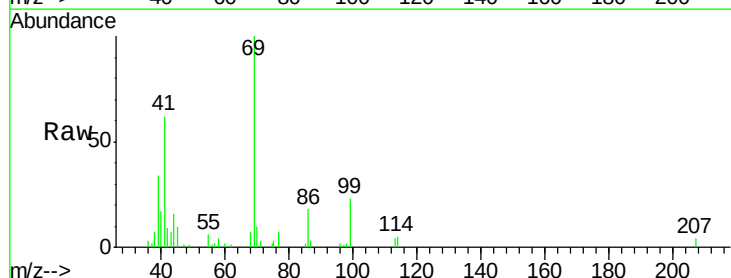
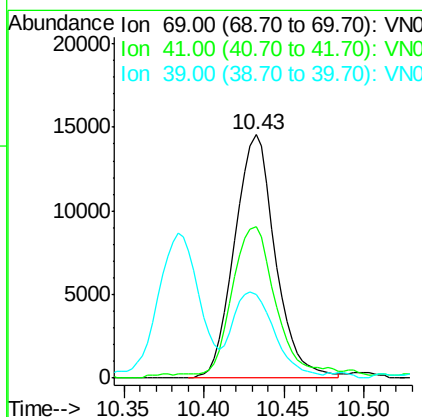
Manual Integrations
 APPROVED

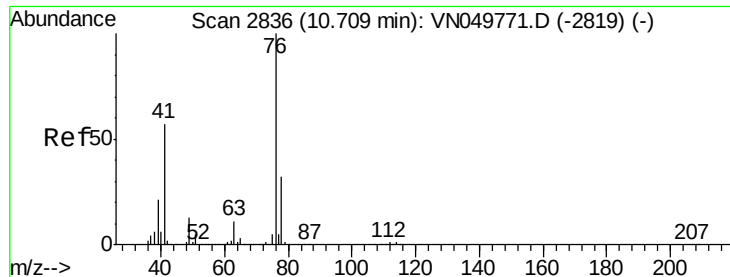
MMDadoda
 7/16/2018 11:25:27 AM



#56
 Ethyl methacrylate
 Concen: 1.65 ug/l
 RT: 10.43 min Scan# 2750
 Delta R.T. 0.00 min
 Lab File: VN049794.D
 Acq: 13 Jul 2018 13:58

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		25217		
41	64.7	51.6	77.4		
39	37.1	25.8	38.8		





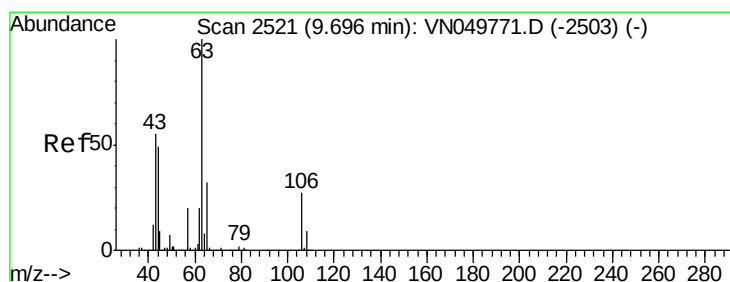
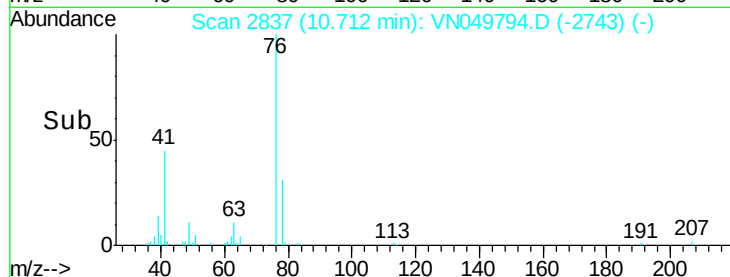
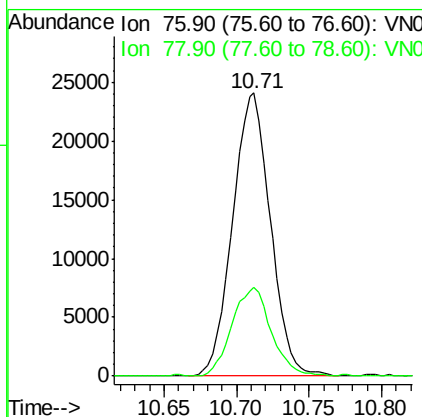
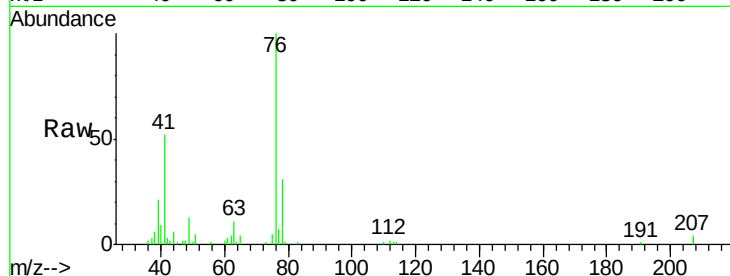
#57
 1,3-Dichloropropane
 Concen: 2.02 ug/l
 RT: 10.71 min Scan# 2837
 Delta R.T. 0.00 min
 Lab File: VN049794.D
 Acq: 13 Jul 2018 13:58

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT3-2018

Tot Ion: 76 Resp: 43633
 Ion Ratio Lower Upper
 76 100
 78 32.5 25.8 38.8

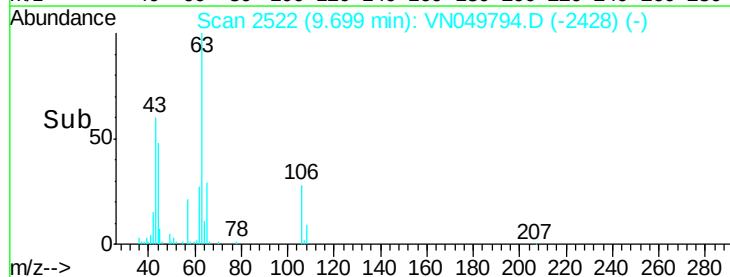
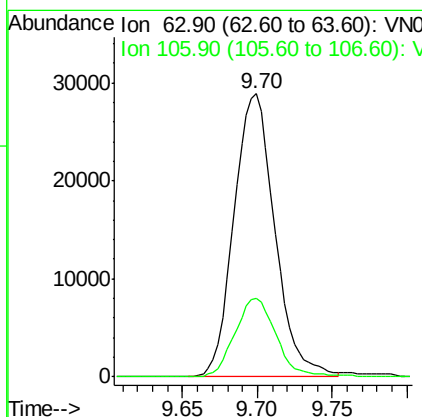
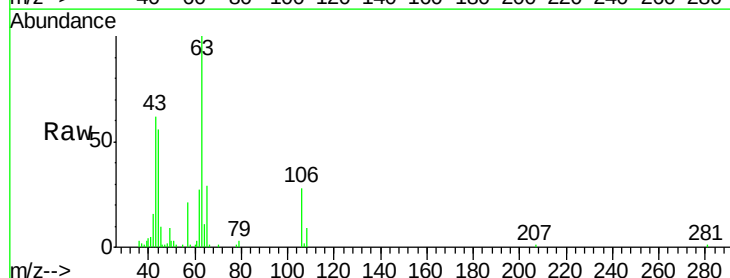
Manual Integrations
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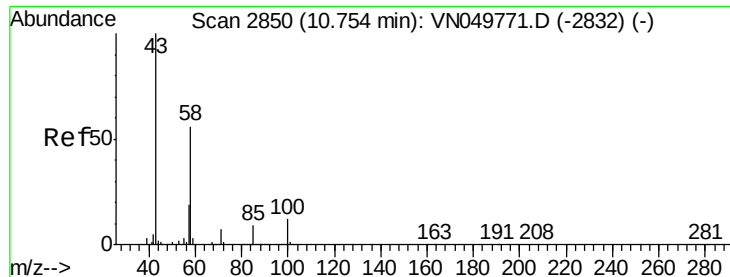
MMDadoda
 7/16/2018 11:25:27 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 7.51 ug/l
 RT: 9.70 min Scan# 2522
 Delta R.T. 0.00 min
 Lab File: VN049794.D
 Acq: 13 Jul 2018 13:58

Tgt Ion: 63 Resp: 55083
 Ion Ratio Lower Upper
 63 100
 106 27.7 21.8 32.8





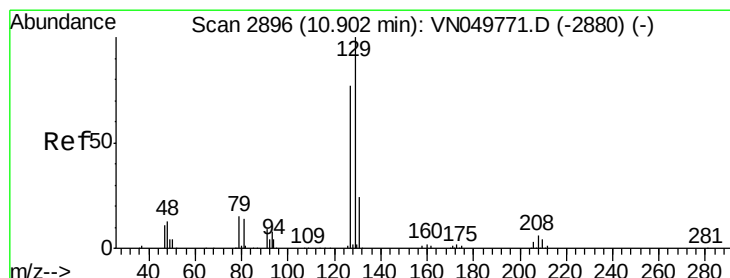
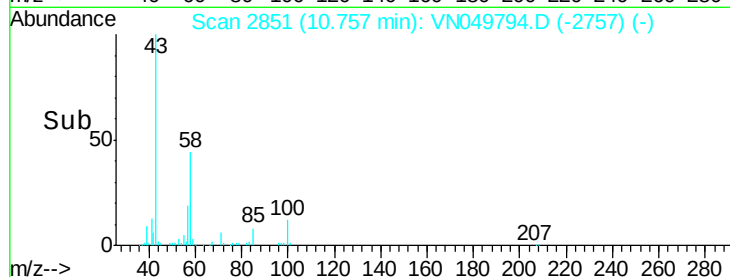
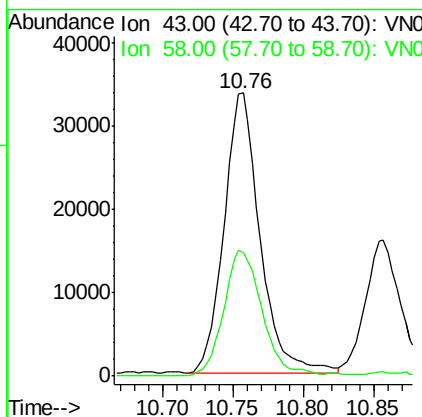
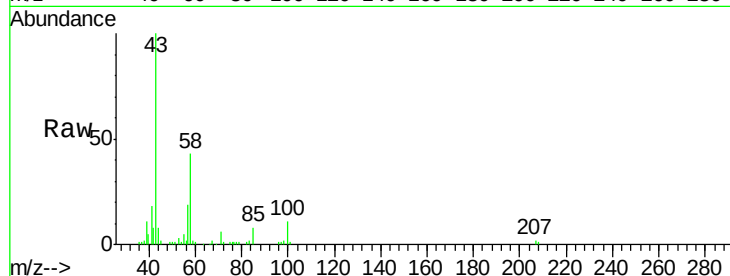
#59
2-Hexanone
Concen: 8.30 ug/l
RT: 10.76 min Scan# 2851
Delta R.T. 0.00 min
Lab File: VN049794.D
Acq: 13 Jul 2018 13:58

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT3-2018

Tot Ion	Ratio	Lower	Upper
43	100		
58	47.5	27.8	83.4

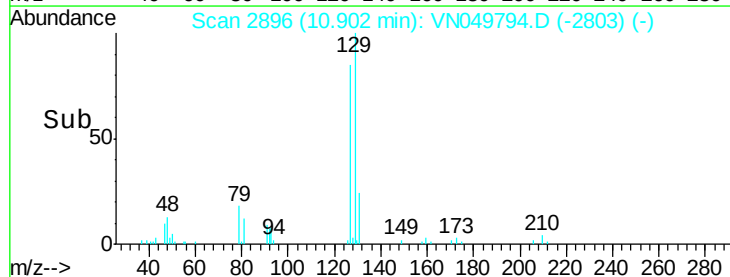
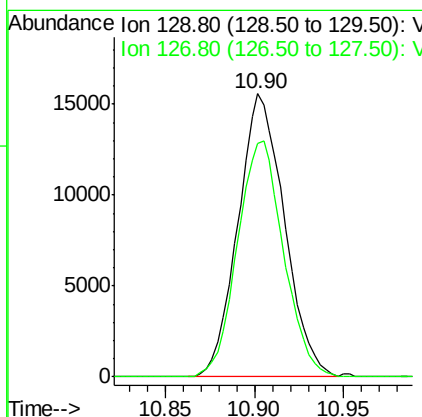
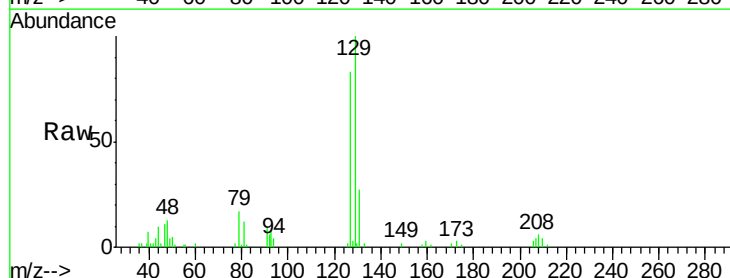
Manual Integrations
APPROVED

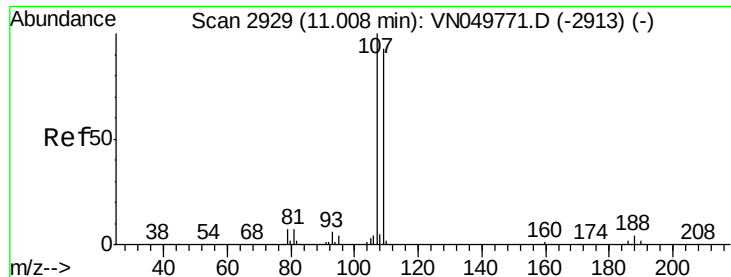
MMDadoda
7/16/2018 11:25:27 AM



#60
Dibromochloromethane
Concen: 1.91 ug/l
RT: 10.90 min Scan# 2896
Delta R.T. 0.00 min
Lab File: VN049794.D
Acq: 13 Jul 2018 13:58

Tgt Ion	Ratio	Lower	Upper
129	100		
127	82.7	38.3	114.9





#61

1,2-Dibromoethane

Concen: 2.00 ug/l

RT: 11.01 min Scan# 2929

Delta R.T. 0.00 min

Lab File: VN049794.D

Acq: 13 Jul 2018 13:58

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT3-2018

Tot Ion: 107 Resp: 24722

Ion Ratio Lower Upper

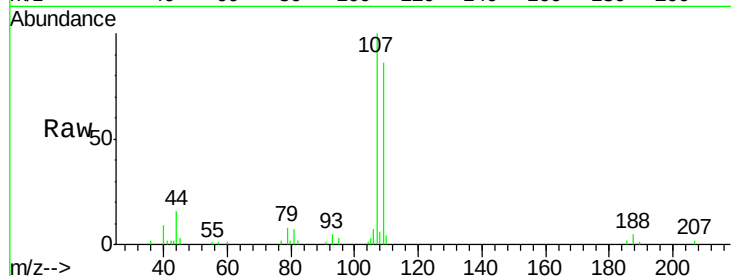
107 100

109 85.5 75.0 112.6

Manual Integrations
APPROVED

MMDadoda

7/16/2018 11:25:27 AM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

11.01

15000

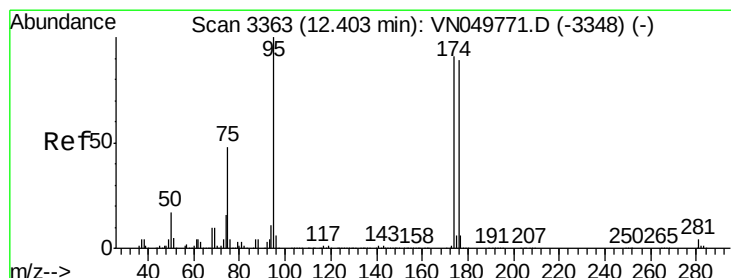
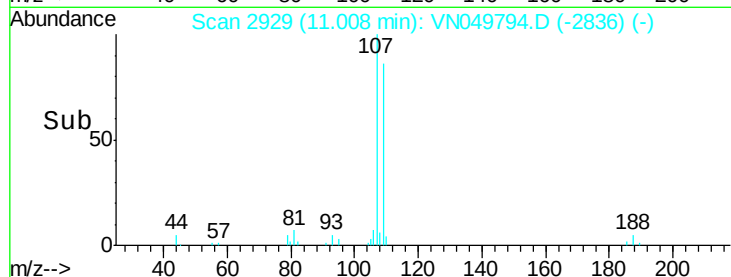
10000

5000

0

Time-->

10.95 11.00 11.05



#62

4-Bromofluorobenzene

Concen: 40.45 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN049794.D

Acq: 13 Jul 2018 13:58

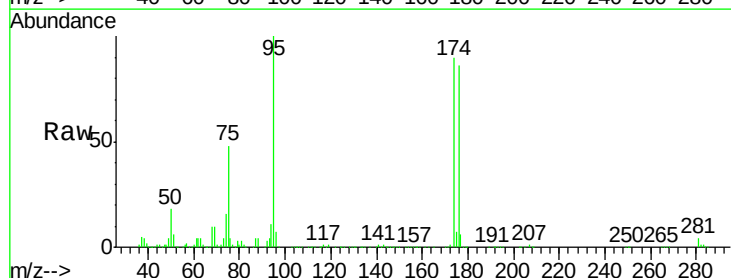
Tgt Ion: 95 Resp: 612259

Ion Ratio Lower Upper

95 100

174 91.7 0.0 179.6

176 87.9 0.0 174.0



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

500000

400000

300000

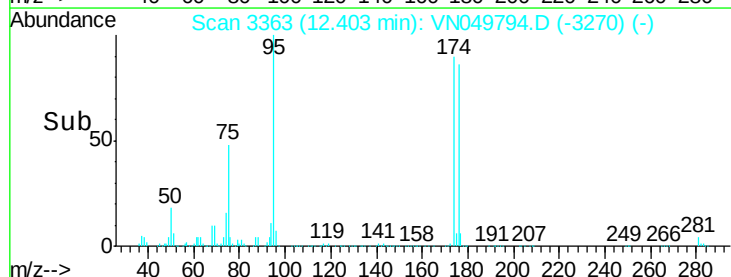
200000

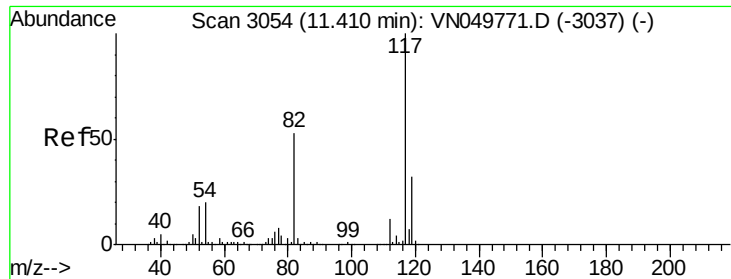
100000

0

Time-->

12.35 12.40 12.45 12.50





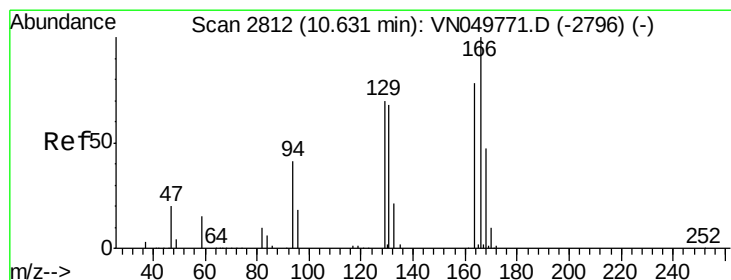
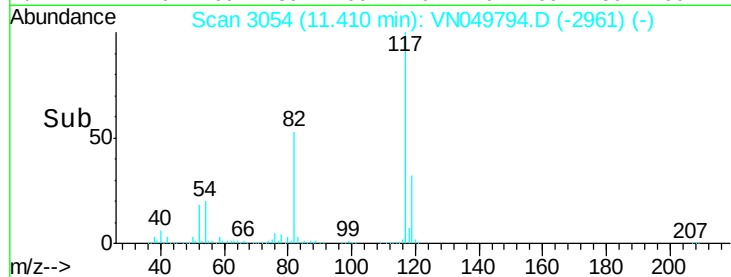
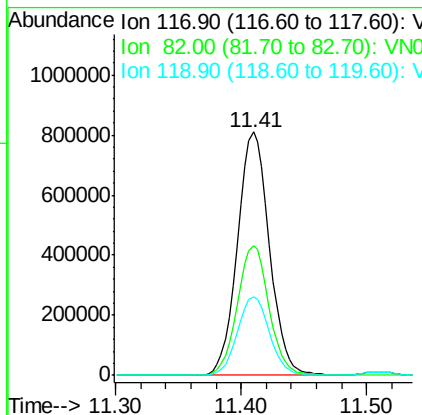
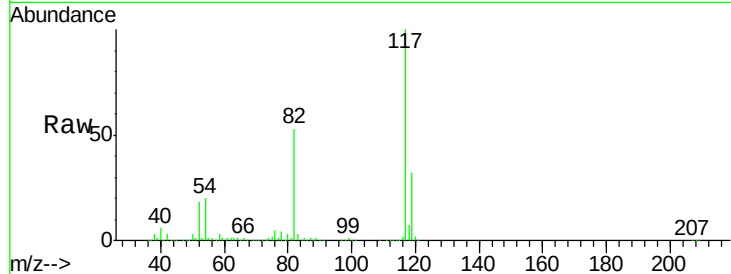
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN049794.D
Acq: 13 Jul 2018 13:58

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT3-2018

Tot Ion:117 Resp: 1432236
Ion Ratio Lower Upper
117 100
82 53.4 41.9 62.9
119 32.4 25.4 38.2

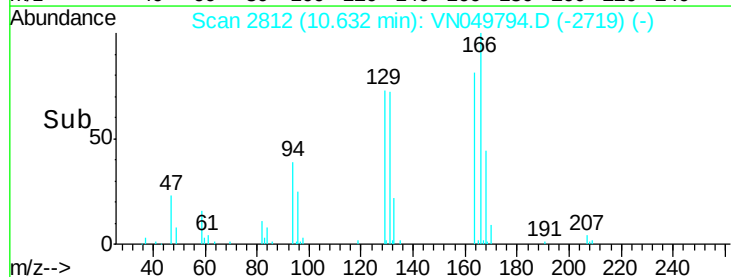
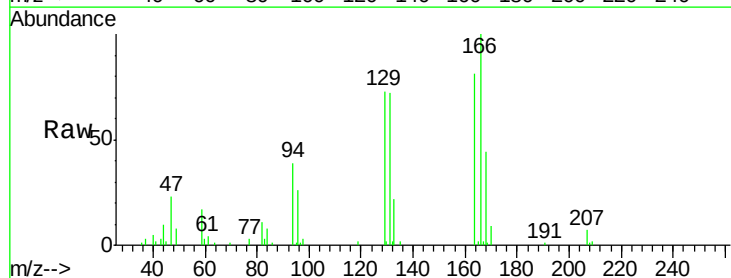
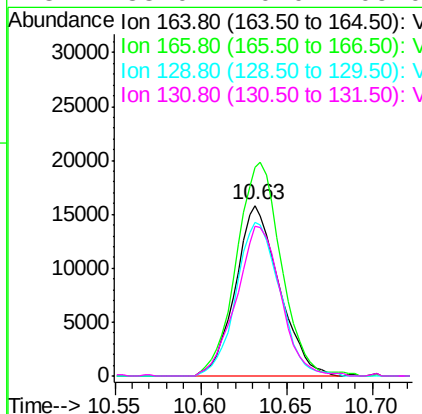
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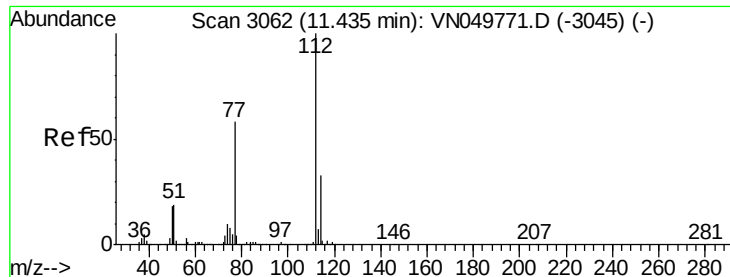
MMDadoda
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#64
Tetrachloroethene
Concen: 2.15 ug/l
RT: 10.63 min Scan# 2812
Delta R.T. 0.00 min
Lab File: VN049794.D
Acq: 13 Jul 2018 13:58

Tgt Ion:164 Resp: 27971
Ion Ratio Lower Upper
164 100
166 122.8 101.8 152.6
129 90.1 72.8 109.2
131 88.0 70.0 105.0





#65

Chlorobenzene

Concen: 2.06 ug/l

RT: 11.44 min Scan# 3062

Delta R.T. 0.00 min

Lab File: VN049794.D

Acq: 13 Jul 2018 13:58

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT3-2018

Tot Ion:112 Resp: 76983

Ion Ratio Lower Upper

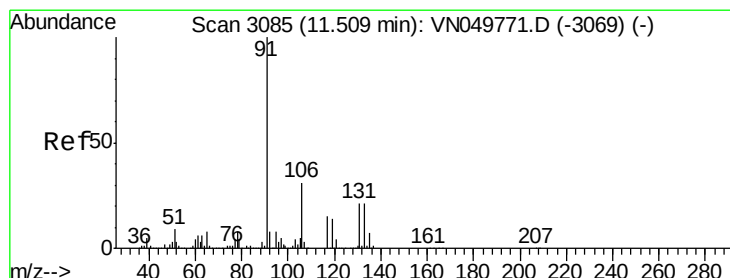
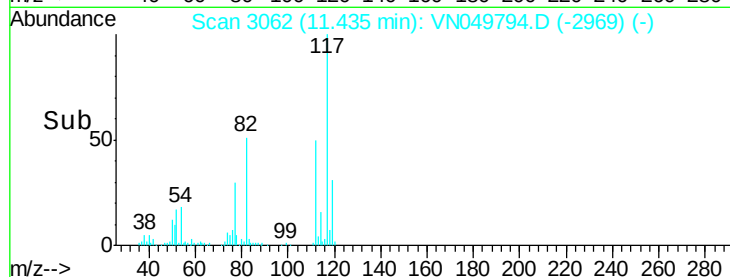
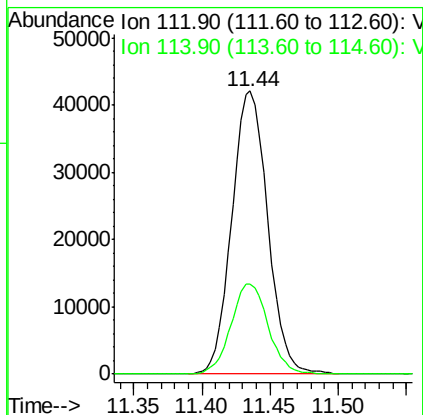
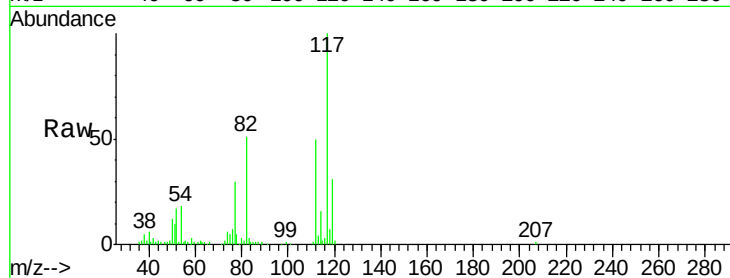
112 100

114 32.1 25.4 38.0

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#66

1,1,1,2-Tetrachloroethane

Concen: 2.14 ug/l

RT: 11.51 min Scan# 3085

Delta R.T. 0.00 min

Lab File: VN049794.D

Acq: 13 Jul 2018 13:58

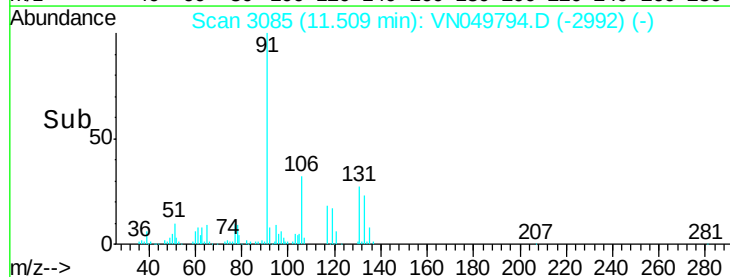
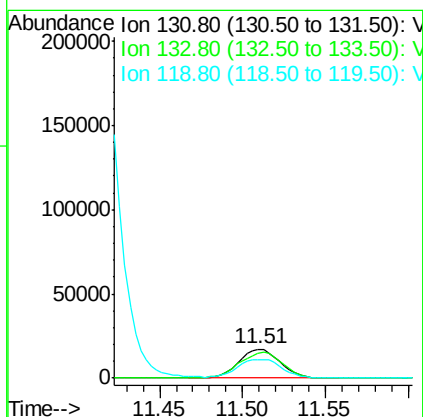
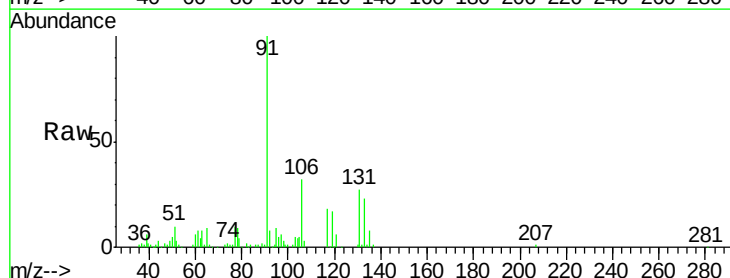
Tgt Ion:131 Resp: 30079

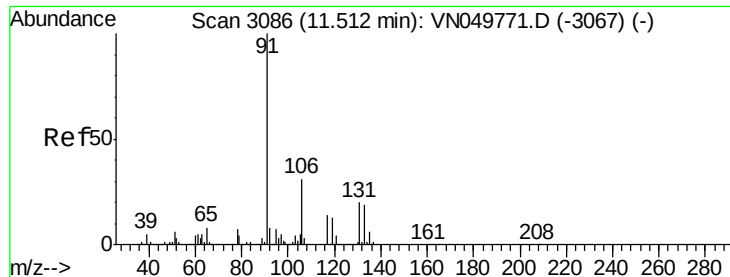
Ion Ratio Lower Upper

131 100

133 93.2 47.5 142.6

119 67.8 33.1 99.3





#67

Ethyl Benzene

Concen: 1.87 ug/l

RT: 11.51 min Scan# 3086

Delta R.T. 0.00 min

Lab File: VN049794.D

Acq: 13 Jul 2018 13:58

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT3-2018

Tot Ion: 91 Resp: 114518

Ion Ratio Lower Upper

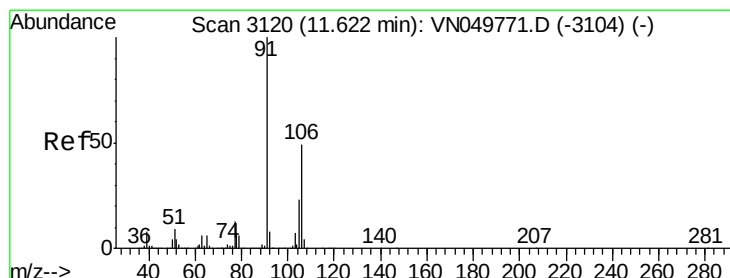
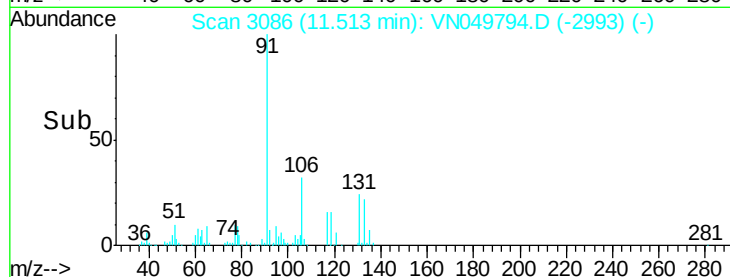
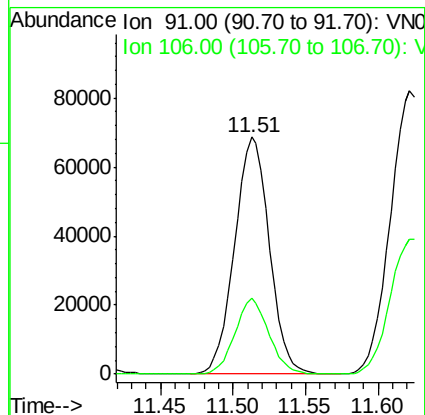
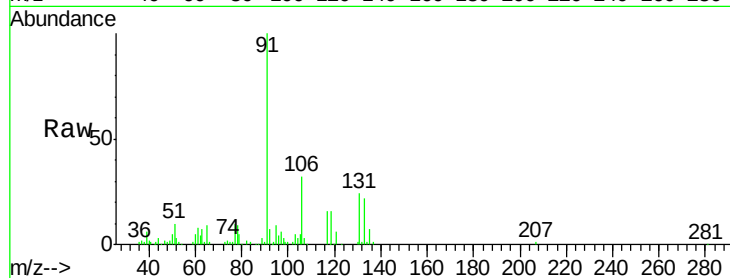
91 100

106 32.1 24.8 37.2

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#68

m/p-Xylenes

Concen: 3.40 ug/l

RT: 11.63 min Scan# 3121

Delta R.T. 0.00 min

Lab File: VN049794.D

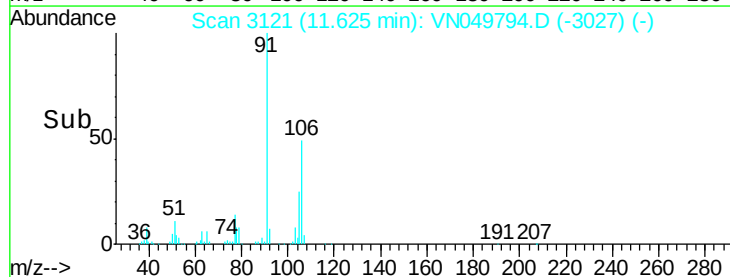
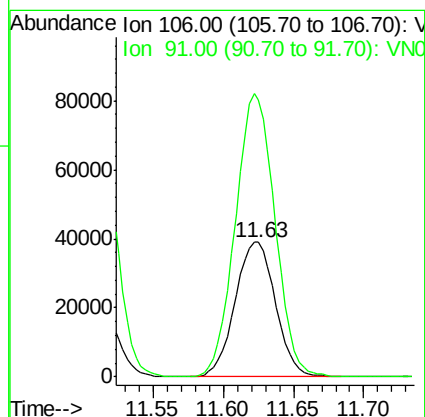
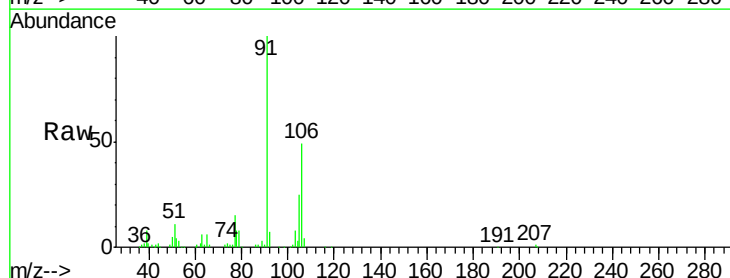
Acq: 13 Jul 2018 13:58

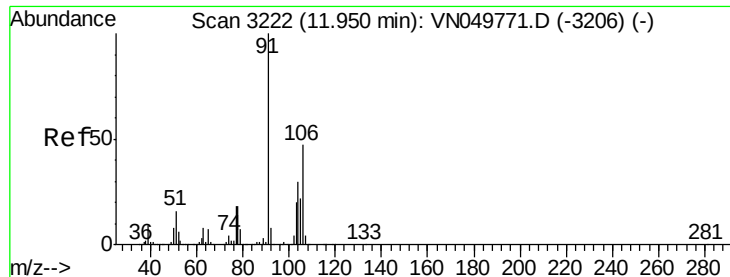
Tgt Ion: 106 Resp: 78070

Ion Ratio Lower Upper

106 100

91 206.4 163.4 245.2





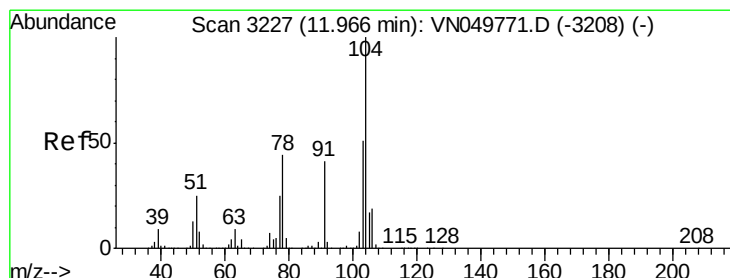
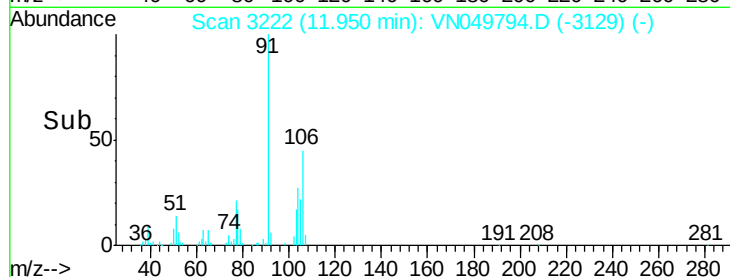
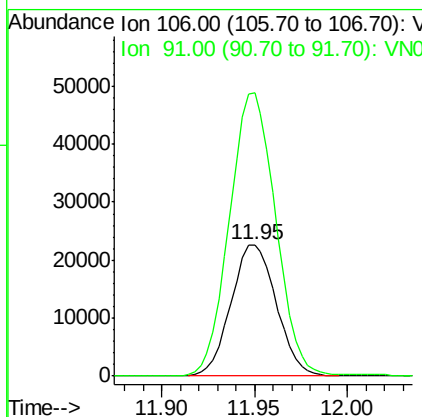
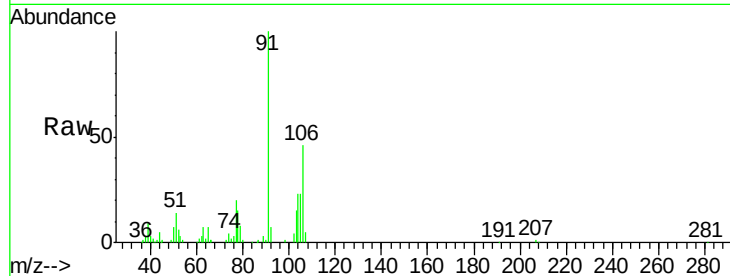
#69
o-Xylene
Concen: 1.74 ug/l
RT: 11.95 min Scan# 3222
Delta R.T. 0.00 min
Lab File: VN049794.D
Acq: 13 Jul 2018 13:58

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT3-2018

Tot Ion:106 Resp: 38570
Ion Ratio Lower Upper
106 100
91 219.7 108.7 326.1

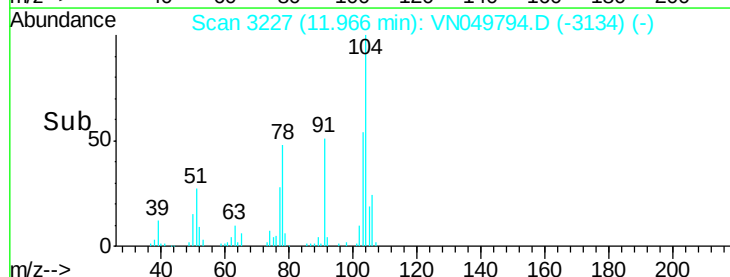
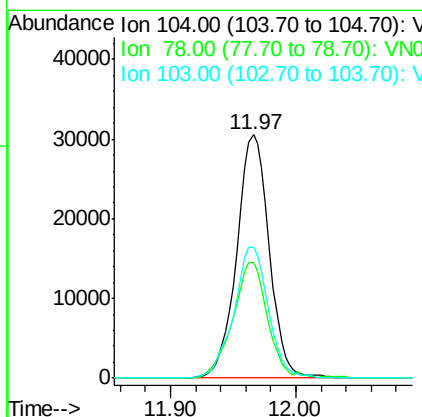
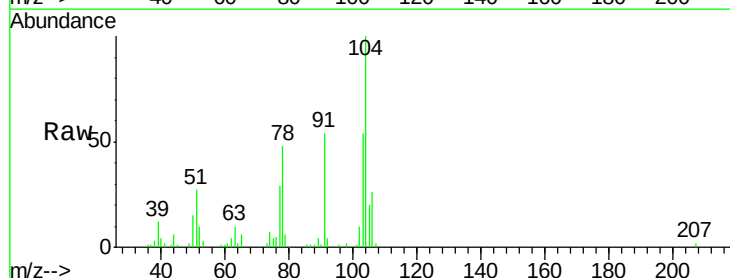
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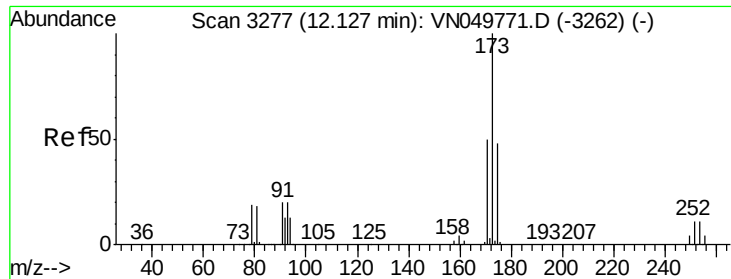
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#70
Styrene
Concen: 1.56 ug/l
RT: 11.97 min Scan# 3227
Delta R.T. 0.00 min
Lab File: VN049794.D
Acq: 13 Jul 2018 13:58

Tgt Ion:104 Resp: 54875
Ion Ratio Lower Upper
104 100
78 50.8 39.2 58.8
103 57.3 44.6 67.0





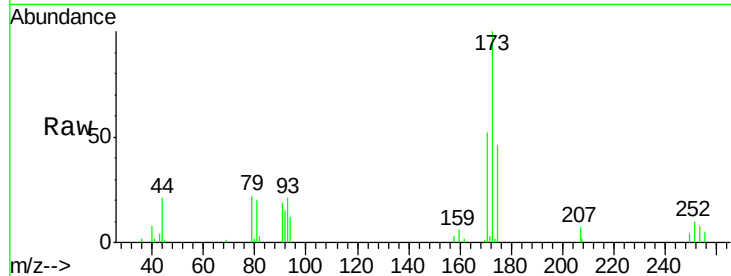
#71
Bromoform
Concen: 1.85 ug/l
RT: 12.13 min Scan# 3277
Delta R.T. 0.00 min
Lab File: VN049794.D
Acq: 13 Jul 2018 13:58

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT3-2018

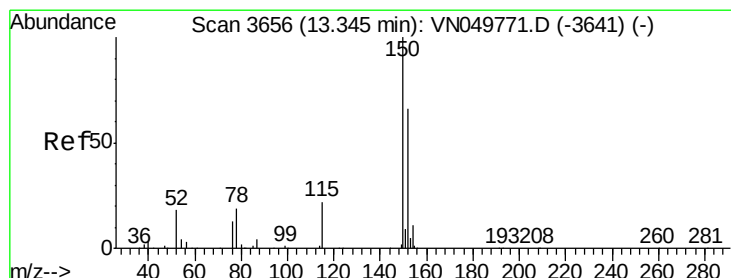
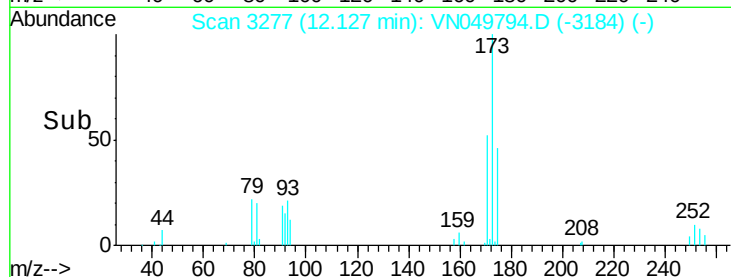
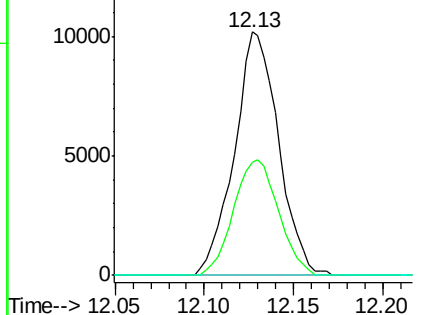
Tot Ion	Ratio	Lower	Upper
173	100		
175	48.2	24.6	73.8
254	0.0	0.2	0.2#

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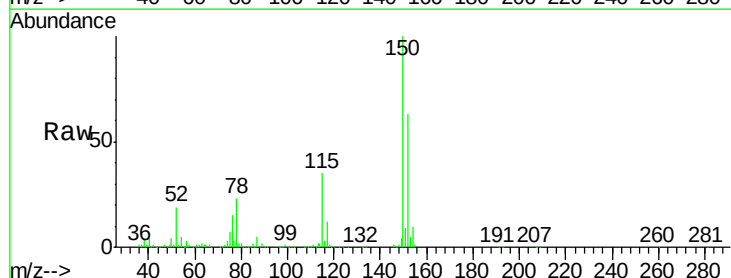


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

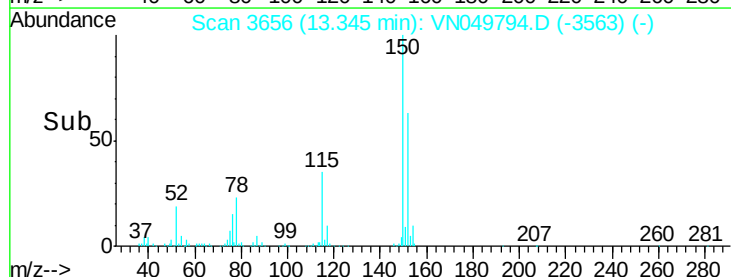
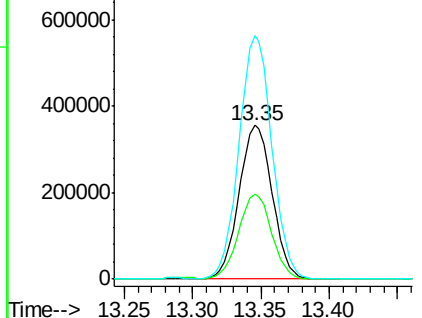


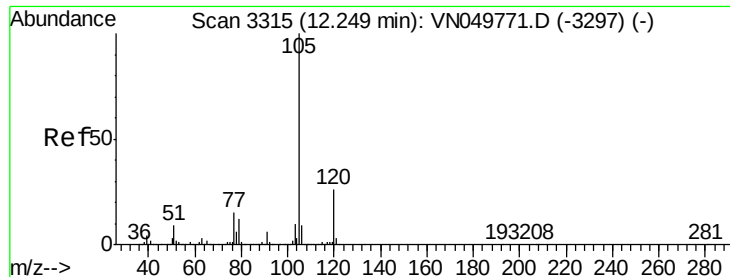
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.35 min Scan# 3656
Delta R.T. 0.00 min
Lab File: VN049794.D
Acq: 13 Jul 2018 13:58

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.1	28.1	84.2
150	157.4	0.0	347.6



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





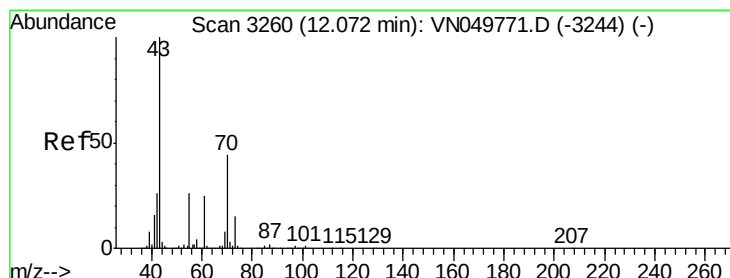
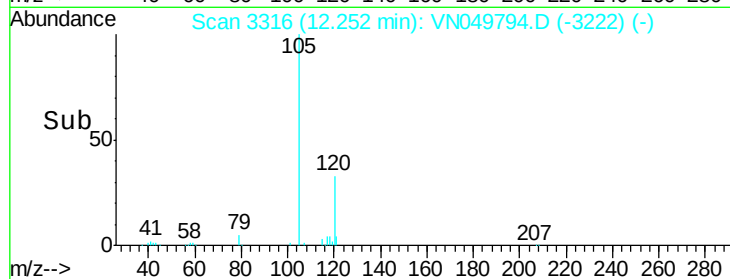
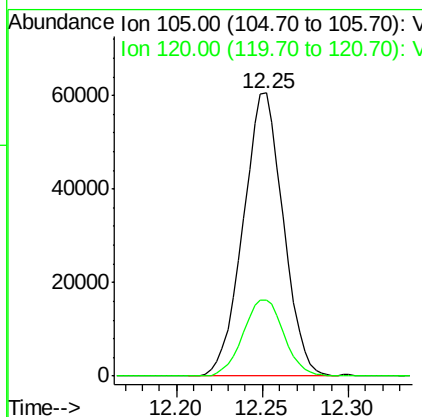
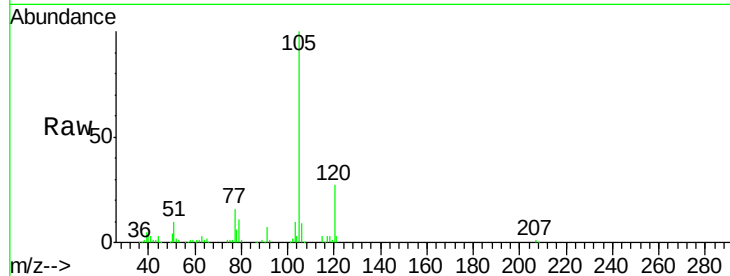
#73
Isopropylbenzene
Concen: 1.97 ug/l
RT: 12.25 min Scan# 3316
Delta R.T. 0.00 min
Lab File: VN049794.D
Acq: 13 Jul 2018 13:58

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT3-2018

Tot Ion	Ratio	Lower	Upper
105	100		
120	27.4	13.3	39.8

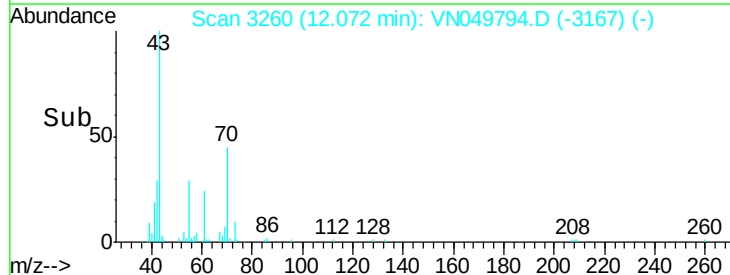
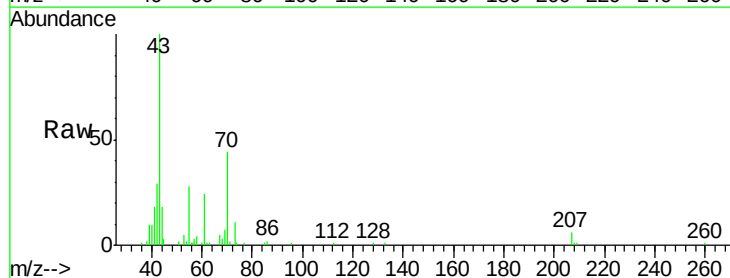
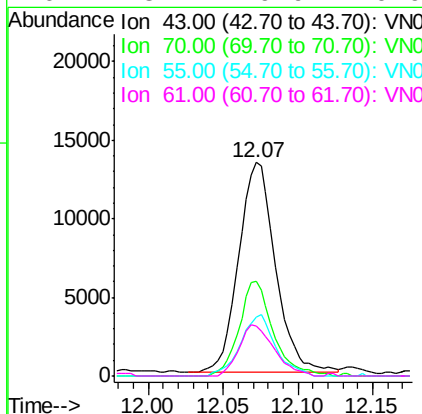
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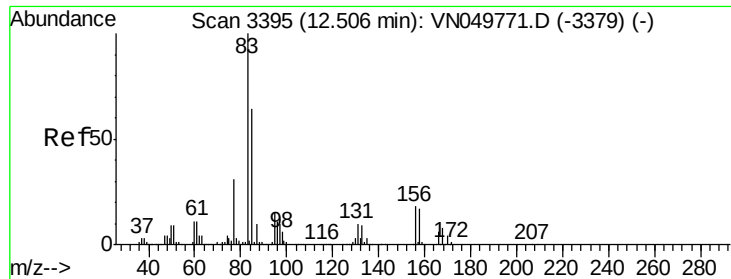
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#74
N-ethyl acetate
Concen: 1.78 ug/l
RT: 12.07 min Scan# 3260
Delta R.T. 0.00 min
Lab File: VN049794.D
Acq: 13 Jul 2018 13:58

Tgt Ion	Ratio	Lower	Upper
43	100		
70	41.3	34.8	52.2
55	27.4	20.9	31.3
61	23.1	19.9	29.9





#75

1,1,2,2-Tetrachloroethane

Concen: 0.88 ug/l

RT: 12.51 min Scan# 3395

Delta R.T. 0.00 min

Lab File: VN049794.D

Acq: 13 Jul 2018 13:58

Instrument :

MSVOA_N

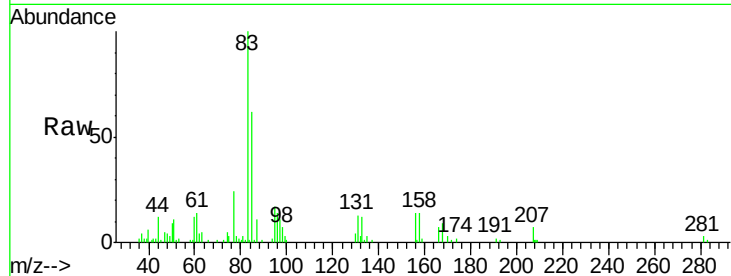
ClientSampleId :

LOQ-WATER-02-QT3-2018

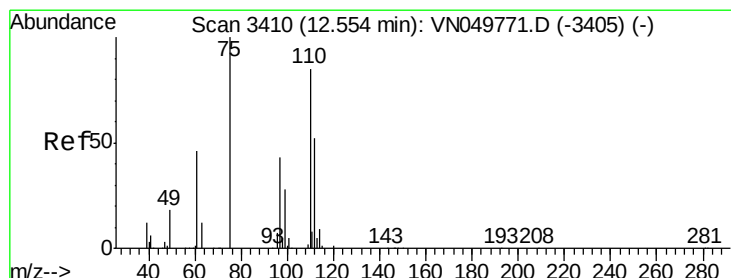
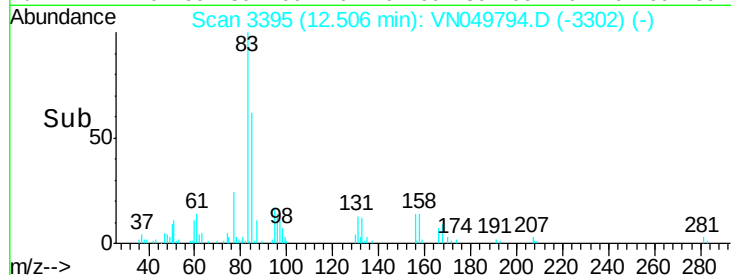
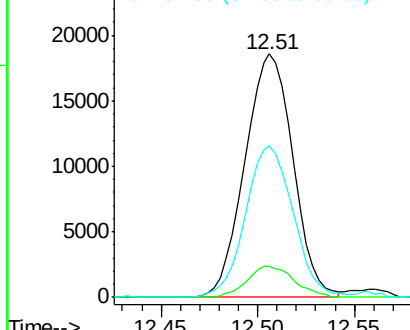
Tot Ion:	83	Resp:	32249
Ion Ratio	Lower	Upper	
83	100		
131	12.4	5.2	15.6
85	61.8	32.5	97.4

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Abundance Ion 82.90 (82.60 to 83.60): VN049794.D (-3302) (-)



#76

1,2,3-Trichloropropane

Concen: 2.12 ug/l m

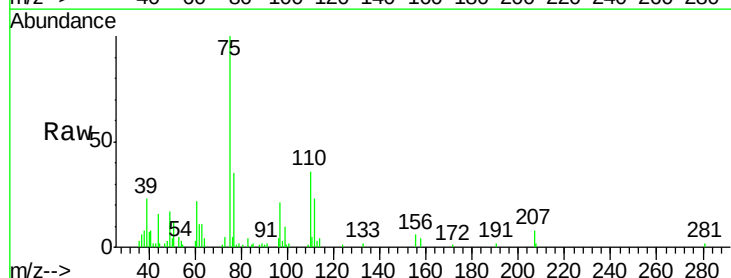
RT: 12.56 min Scan# 3411

Delta R.T. 0.00 min

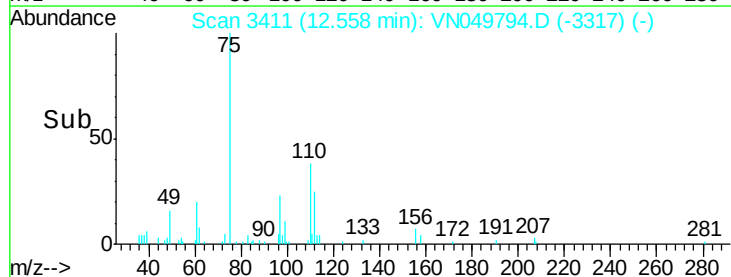
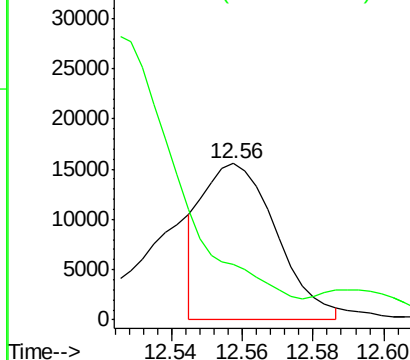
Lab File: VN049794.D

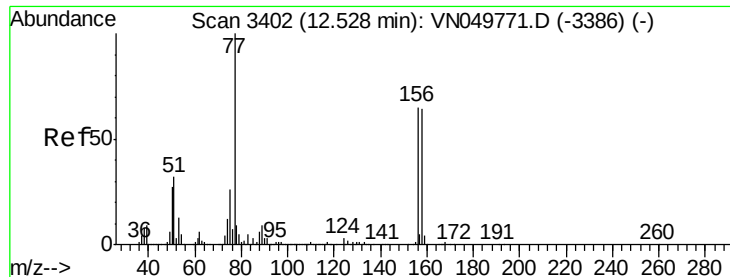
Acq: 13 Jul 2018 13:58

Tgt Ion:	75	Resp:	22599
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0



Abundance Ion 74.90 (74.60 to 75.60): VN049794.D (-3317) (-)





#77

Bromobenzene

Concen: 2.35 ug/l

RT: 12.53 min Scan# 3401

Delta R.T. -0.00 min

Lab File: VN049794.D

Acq: 13 Jul 2018 13:58

Instrument :

MSVOA_N

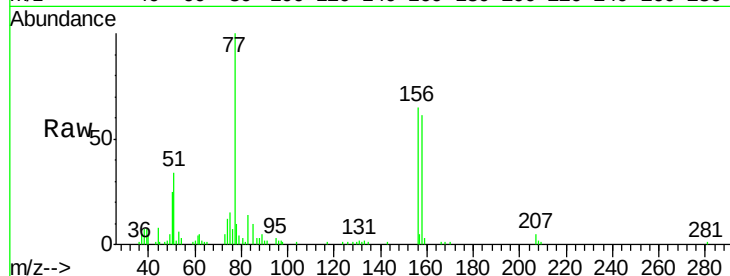
ClientSampleId :

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Tot Ion:	156	Resp:	31055
Ion Ratio	Lower	Upper	
156	100		
77	178.5	90.2	270.6
158	95.4	49.1	147.3

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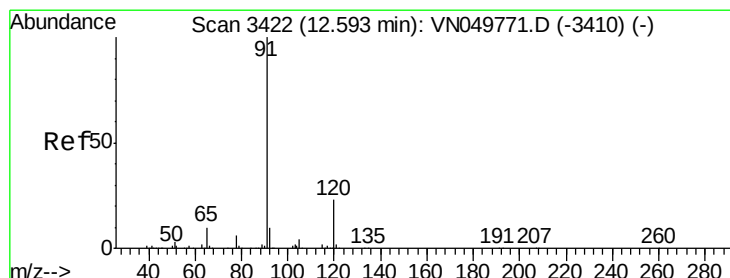
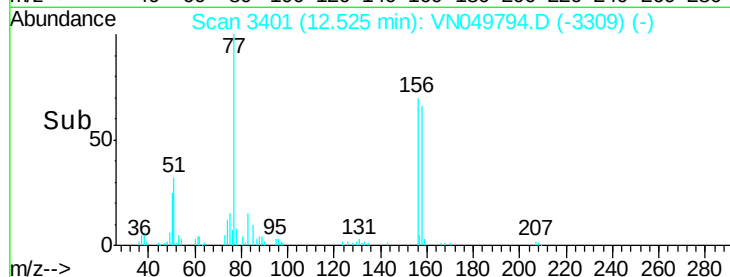
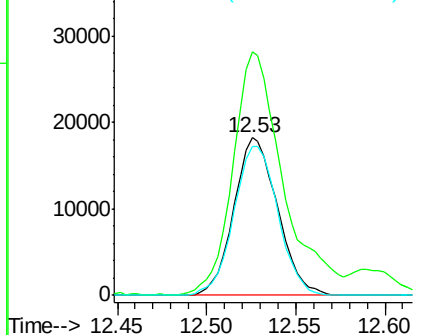
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Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 2.00 ug/l

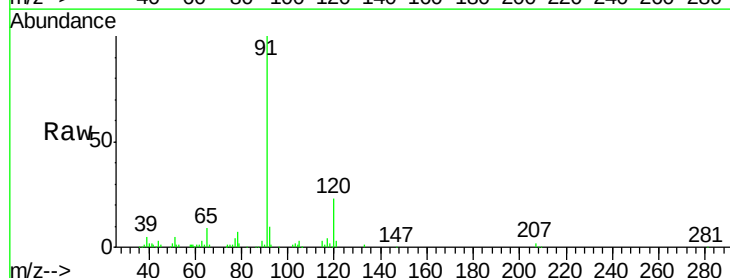
RT: 12.59 min Scan# 3422

Delta R.T. 0.00 min

Lab File: VN049794.D

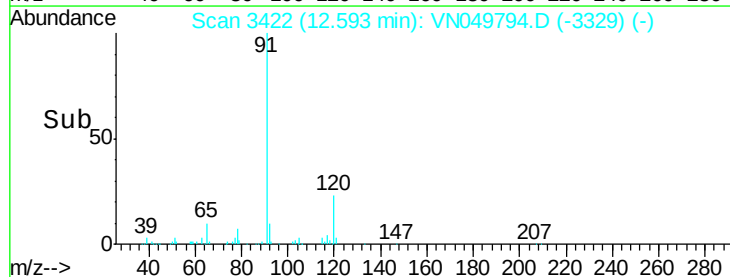
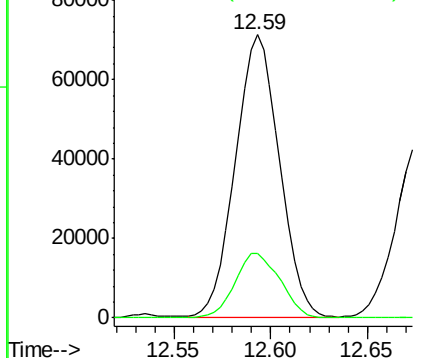
Acq: 13 Jul 2018 13:58

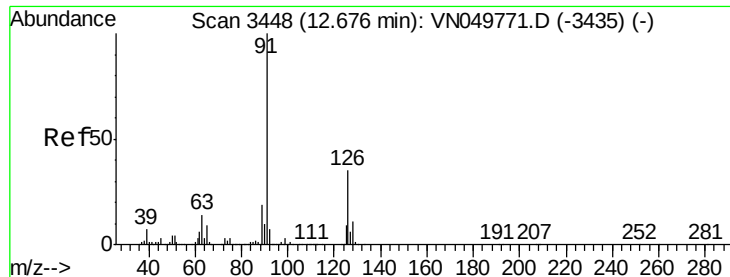
Tgt Ion:	91	Resp:	112340
Ion Ratio	Lower	Upper	
91	100		
120	23.5	11.5	34.4



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 2.17 ug/l

RT: 12.68 min Scan# 3448

Delta R.T. 0.00 min

Lab File: VN049794.D

Acq: 13 Jul 2018 13:58

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT3-2018

Tot Ion: 91 Resp: 74550

Ion Ratio Lower Upper

91 100

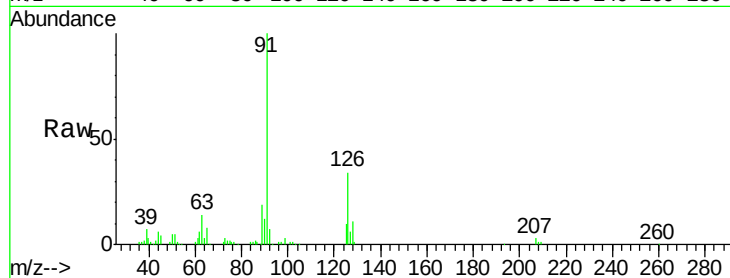
126 34.4 17.5 52.5

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Abundance Ion 91.00 (90.70 to 91.70): VN049771.D (-3435) (-)

Ion 125.90 (125.60 to 126.60): VN049771.D (-3435) (-)

80000

60000

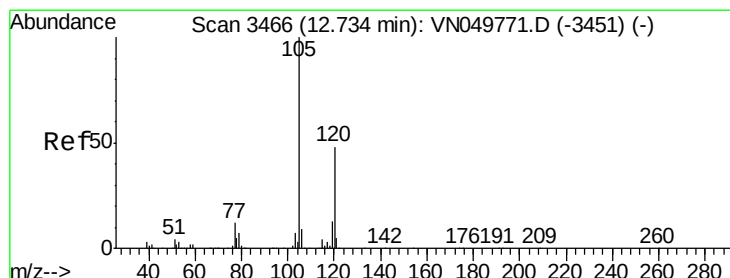
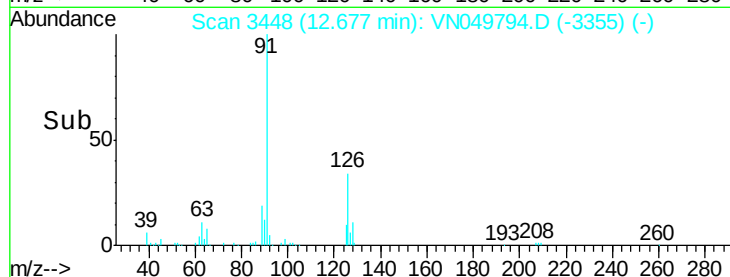
40000

20000

0

12.60 12.65 12.70

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 2.04 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. 0.00 min

Lab File: VN049794.D

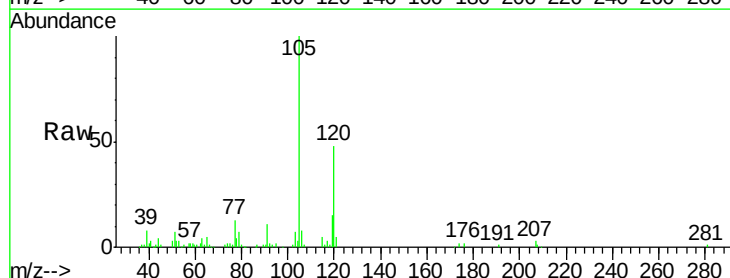
Acq: 13 Jul 2018 13:58

Tgt Ion: 105 Resp: 80791

Ion Ratio Lower Upper

105 100

120 47.2 24.3 72.8



Abundance Ion 105.00 (104.70 to 105.70): VN049771.D (-3451) (-)

Ion 120.00 (119.70 to 120.70): VN049771.D (-3451) (-)

60000

50000

40000

30000

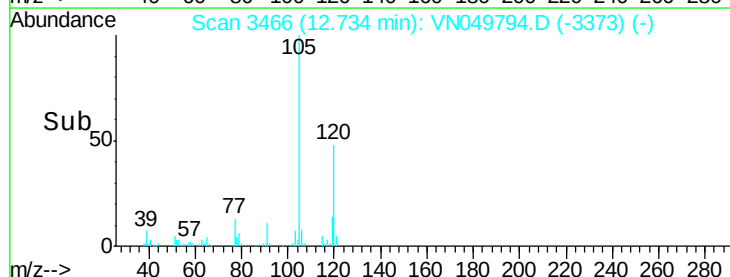
20000

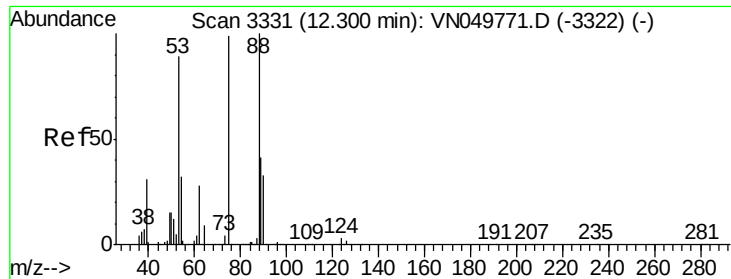
10000

0

12.70 12.75 12.80

Time-->





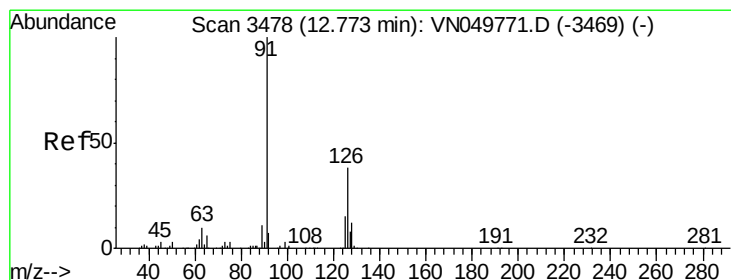
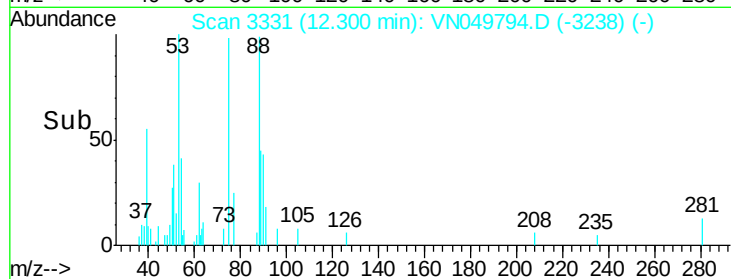
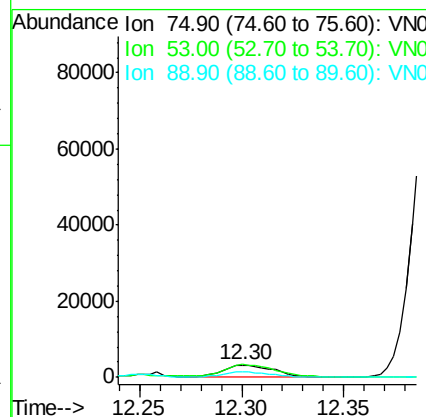
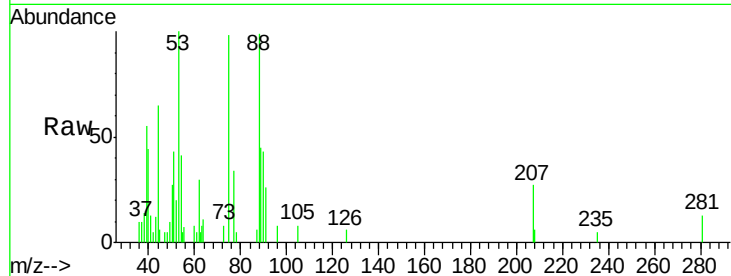
#81
trans-1,4-Dichloro-2-butene
Concen: 1.71 ug/l m
RT: 12.30 min Scan# 3331
Delta R.T. 0.00 min
Lab File: VN049794.D
Acq: 13 Jul 2018 13:58

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT3-2018

Tot Ion	Ratio	Lower	Upper
75	100		
53	6.1	73.9	110.9#
89	0.0	35.9	53.9#

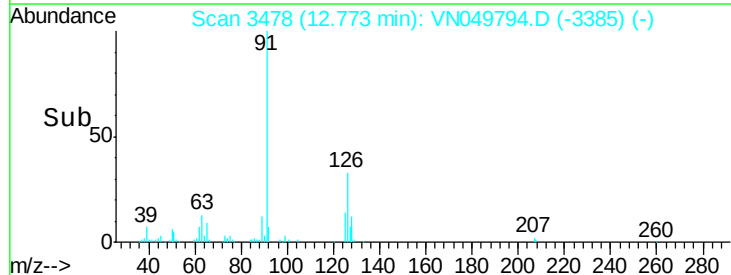
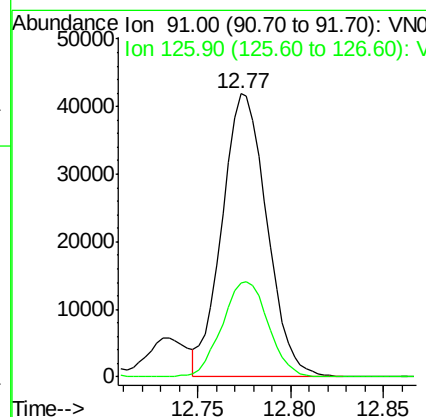
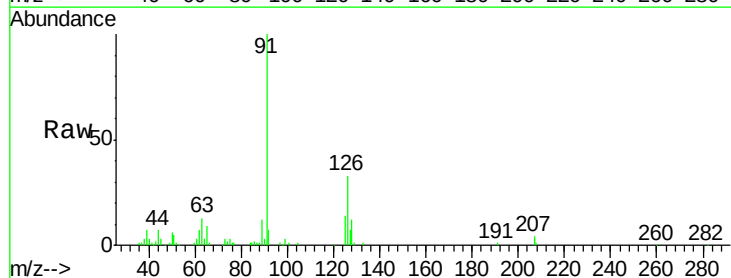
Manual Integrations
APPROVED

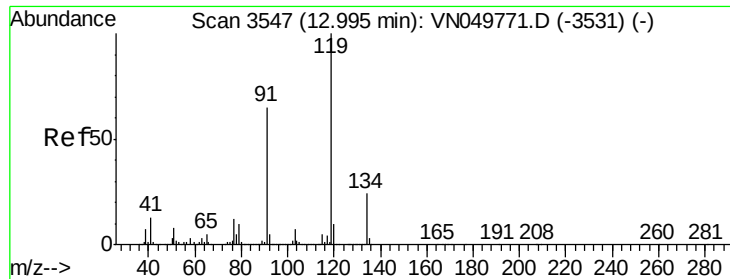
MMDadoda
7/16/2018 11:25:27 AM



#82
4-Chlorotoluene
Concen: 2.06 ug/l
RT: 12.77 min Scan# 3478
Delta R.T. 0.00 min
Lab File: VN049794.D
Acq: 13 Jul 2018 13:58

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.5	17.2	51.6





#83

tert-Butylbenzene

Concen: 2.07 ug/l

RT: 12.99 min Scan# 3547

Delta R.T. 0.00 min

Lab File: VN049794.D

Acq: 13 Jul 2018 13:58

Instrument :

MSVOA_N

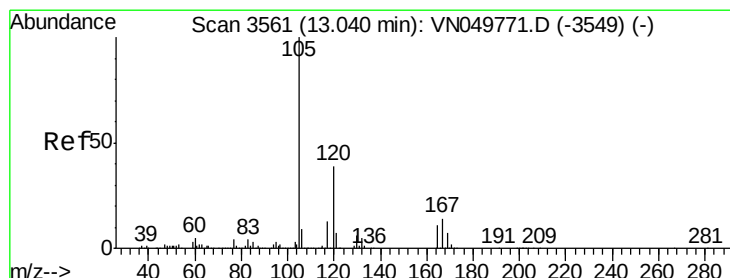
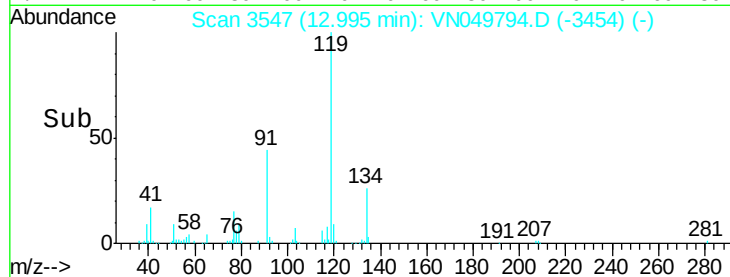
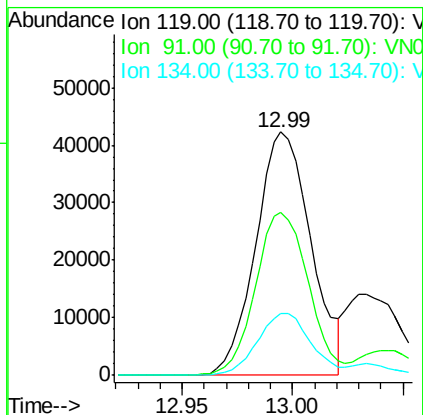
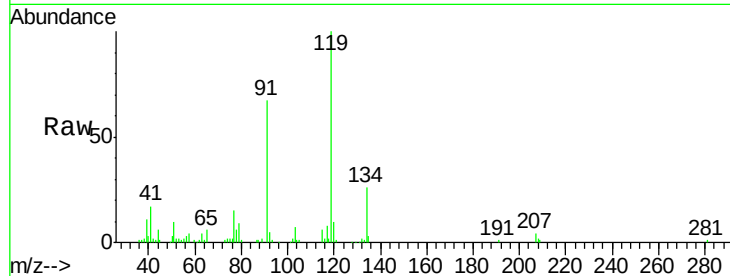
ClientSampleId :

LOQ-WATER-02-QT3-2018

Tot Ion:	119	Resp:	73277
Ion Ratio	Lower	Upper	
119	100		
91	64.3	32.0	96.2
134	24.8	12.8	38.4

Manual Integrations
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#84

1,2,4-Trimethylbenzene

Concen: 1.85 ug/l

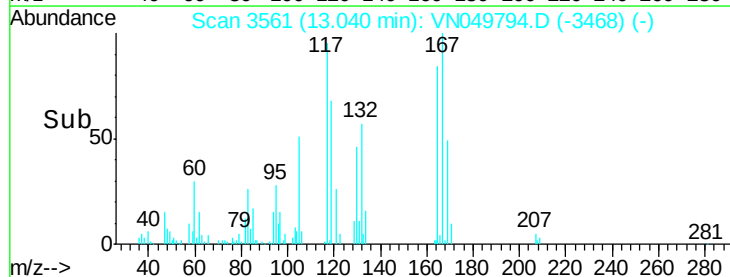
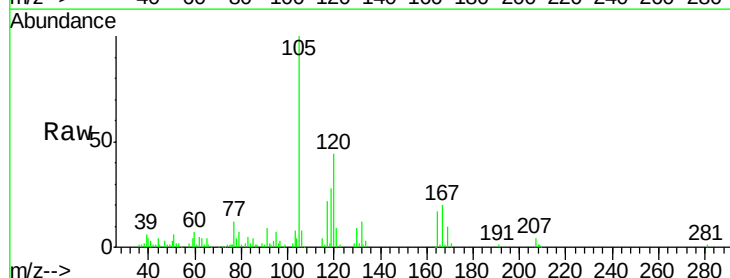
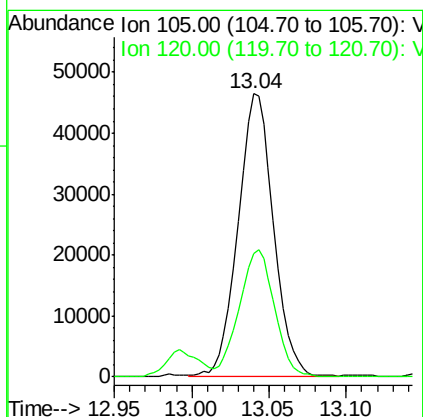
RT: 13.04 min Scan# 3561

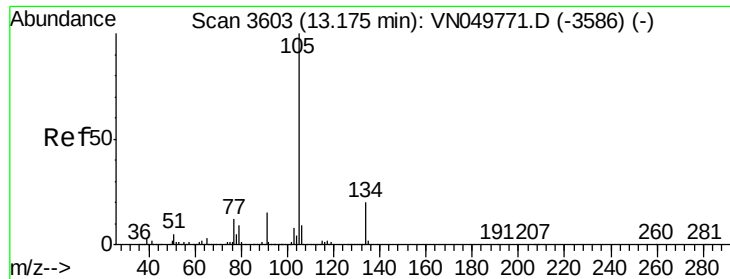
Delta R.T. 0.00 min

Lab File: VN049794.D

Acq: 13 Jul 2018 13:58

Tgt Ion:	105	Resp:	73286
Ion Ratio	Lower	Upper	
105	100		
120	45.1	22.7	68.1





#85

sec-Butylbenzene

Concen: 1.95 ug/l

RT: 13.17 min Scan# 3603

Delta R.T. 0.00 min

Lab File: VN049794.D

Acq: 13 Jul 2018 13:58

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT3-2018

Tot Ion:105 Resp: 90731

Ion Ratio Lower Upper

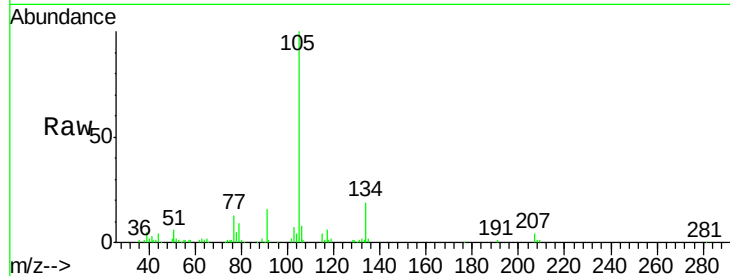
105 100

134 20.7 10.1 30.1

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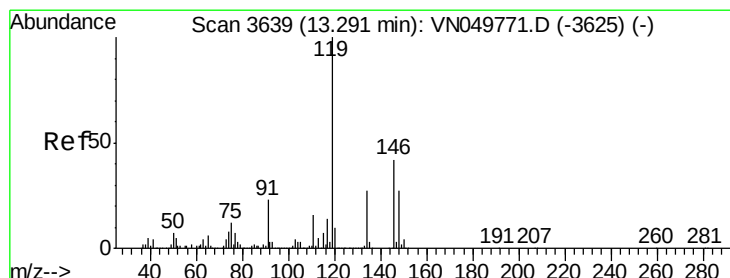
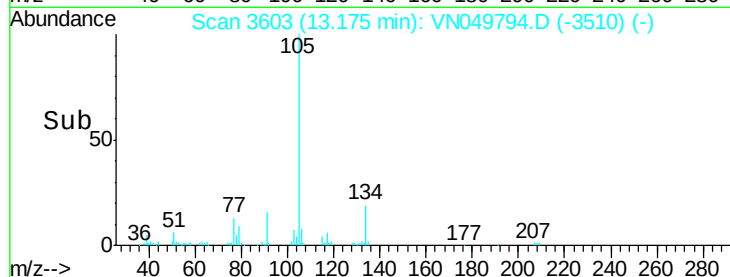
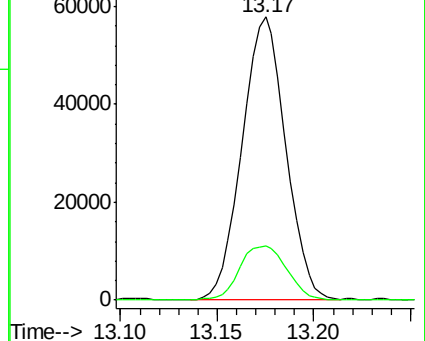
MMDadoda

7/16/2018 11:25:27 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 1.85 ug/l

RT: 13.29 min Scan# 3639

Delta R.T. 0.00 min

Lab File: VN049794.D

Acq: 13 Jul 2018 13:58

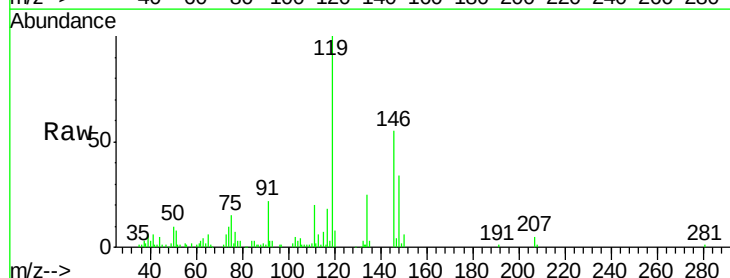
Tgt Ion:119 Resp: 72663

Ion Ratio Lower Upper

119 100

134 25.9 13.3 39.9

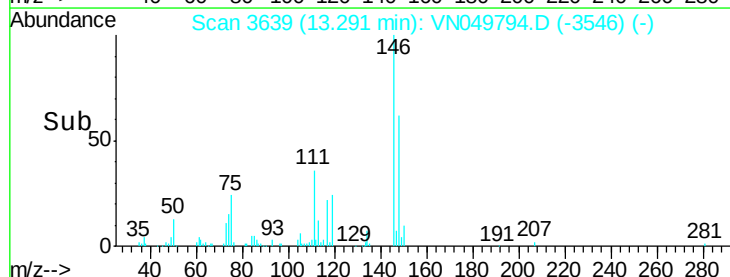
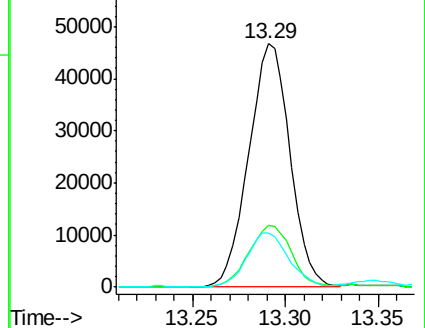
91 22.9 11.4 34.1

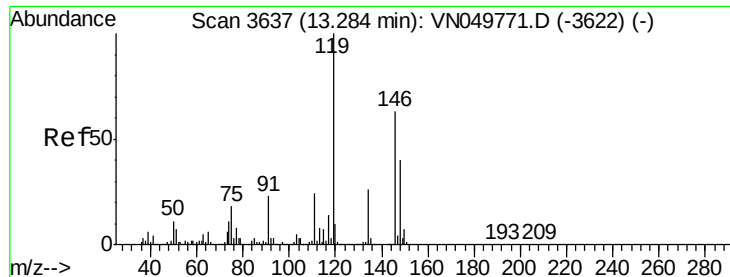


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





#87

1,3-Dichlorobenzene

Concen: 2.06 ug/l

RT: 13.29 min Scan# 3638

Delta R.T. 0.00 min

Lab File: VN049794.D

Acq: 13 Jul 2018 13:58

Instrument :

MSVOA_N

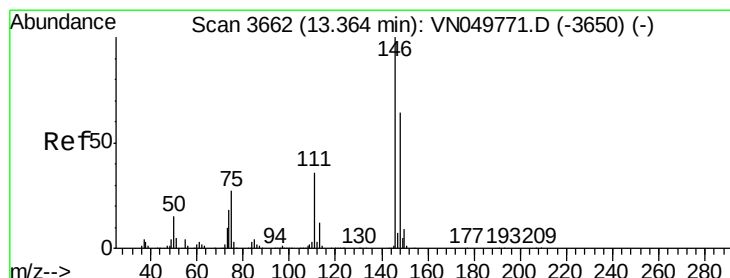
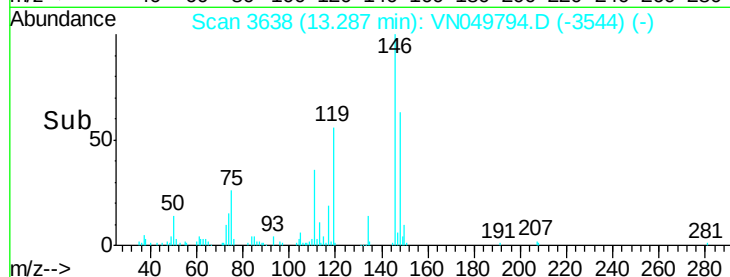
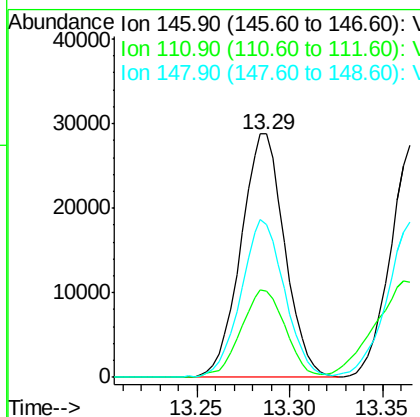
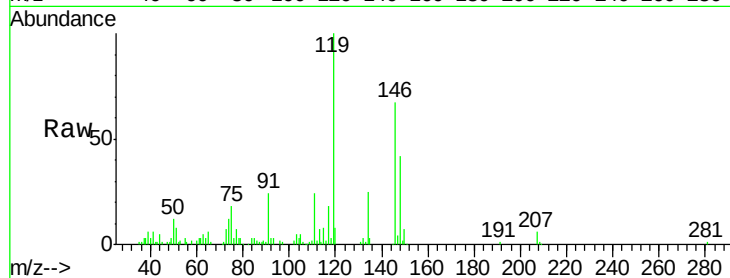
ClientSampleId :

LOQ-WATER-02-QT3-2018

Tot Ion:	146	Resp:	47310
Ion Ratio	Lower	Upper	
146	100		
111	36.4	19.0	57.0
148	64.4	32.5	97.5

Manual Integrations
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#88

1,4-Dichlorobenzene

Concen: 2.07 ug/l

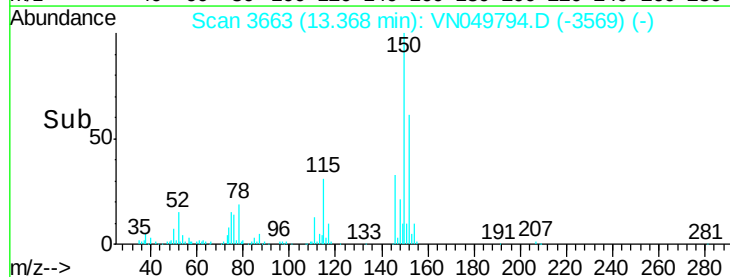
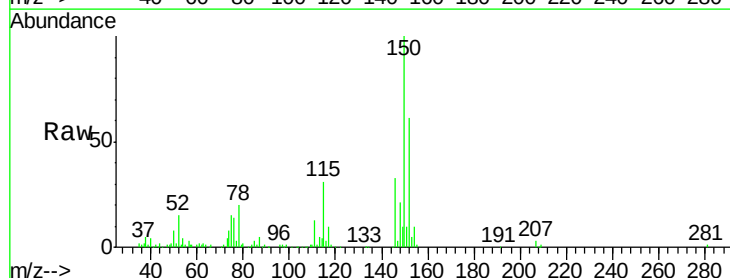
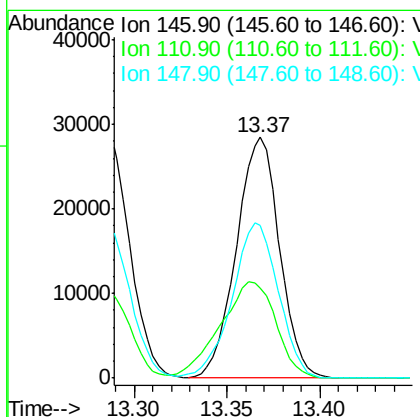
RT: 13.37 min Scan# 3663

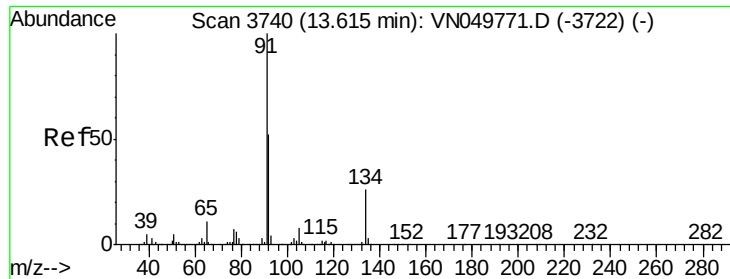
Delta R.T. 0.00 min

Lab File: VN049794.D

Acq: 13 Jul 2018 13:58

Tgt Ion:	146	Resp:	46127
Ion Ratio	Lower	Upper	
146	100		
111	51.9	18.9	56.5
148	68.9	32.1	96.3





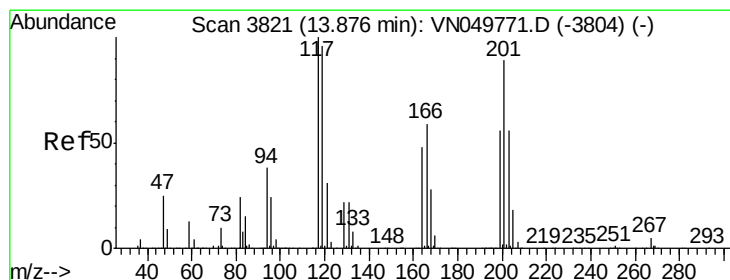
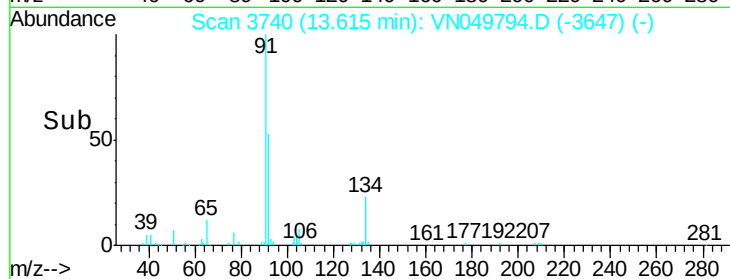
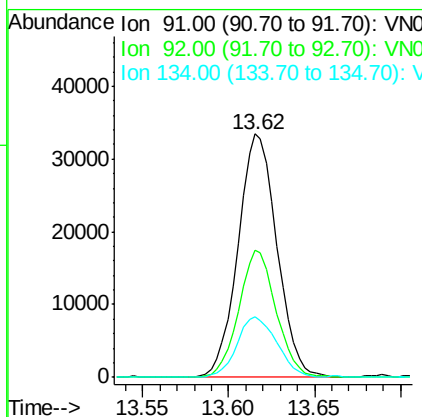
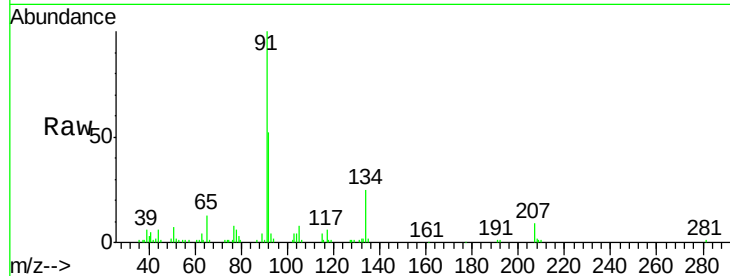
#89
n-Butylbenzene
Concen: 1.62 ug/l
RT: 13.62 min Scan# 3740
Delta R.T. 0.00 min
Lab File: VN049794.D
Acq: 13 Jul 2018 13:58

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT3-2018

Tot Ion	Ratio	Lower	Upper
91	100		
92	49.8	25.8	77.3
134	25.3	13.0	38.9

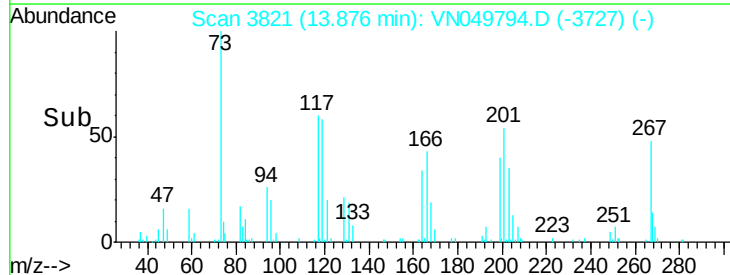
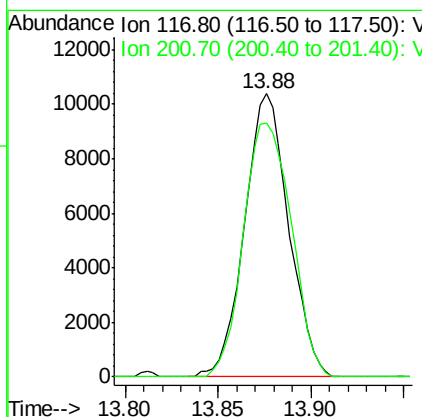
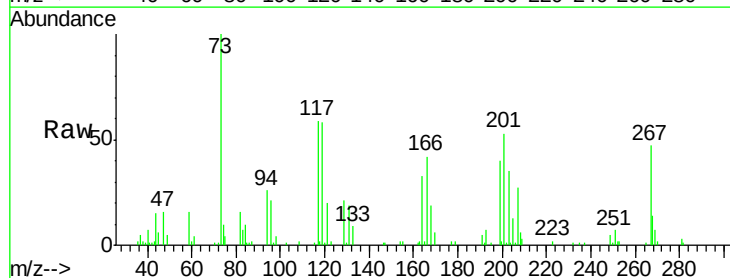
Manual Integrations
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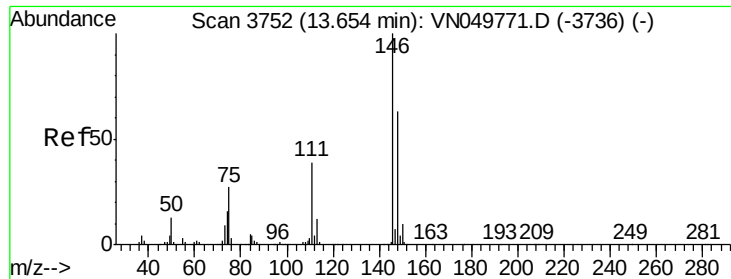
MMDadoda
7/16/2018 11:25:27 AM



#90
Hexachloroethane
Concen: 1.45 ug/l
RT: 13.88 min Scan# 3821
Delta R.T. 0.00 min
Lab File: VN049794.D
Acq: 13 Jul 2018 13:58

Tgt Ion	Ratio	Lower	Upper
117	100		
201	97.6	45.3	135.8





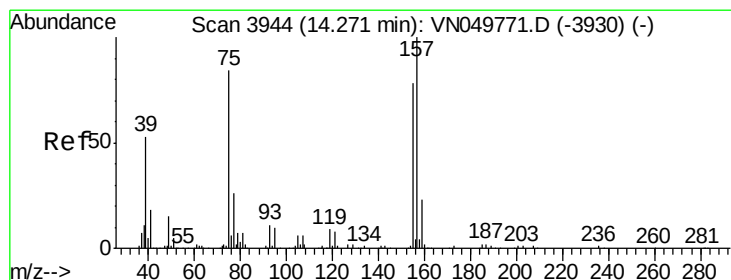
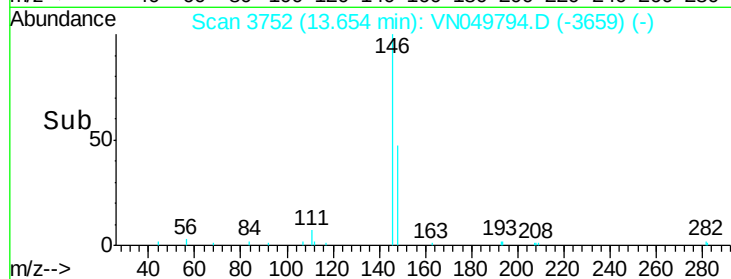
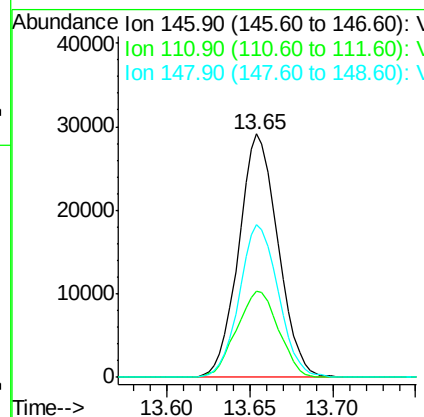
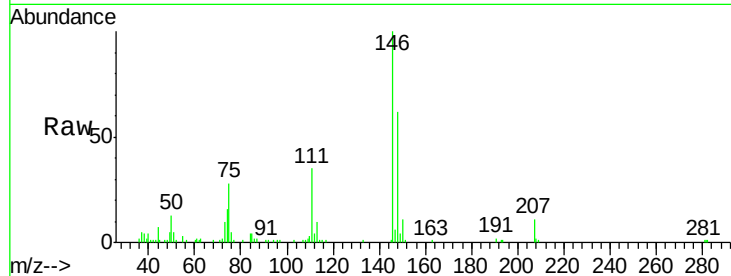
#91
 1,2-Dichlorobenzene
 Concen: 2.15 ug/l
 RT: 13.65 min Scan# 3752
 Delta R.T. 0.00 min
 Lab File: VN049794.D
 Acq: 13 Jul 2018 13:58

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT3-2018

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.8	19.7	59.1
148	62.3	32.0	96.2

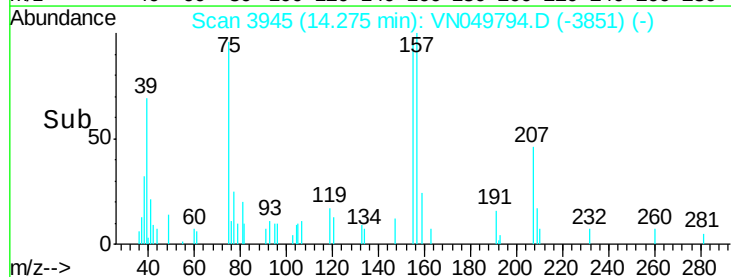
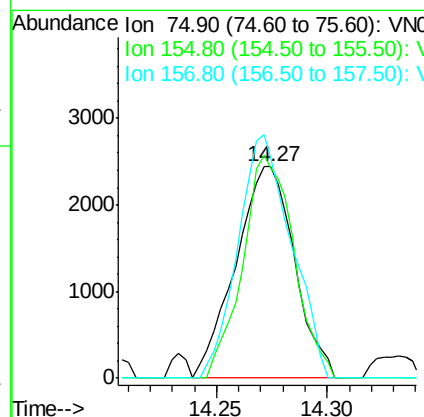
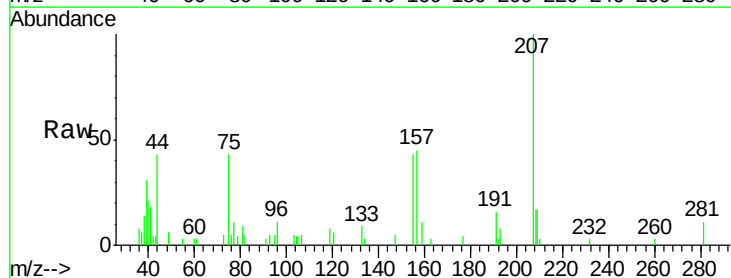
Manual Integrations
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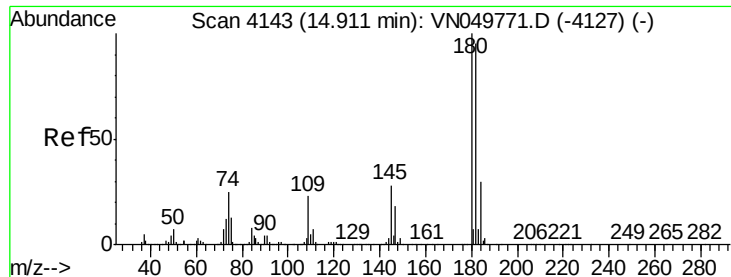
MMDadoda
 7/16/2018 11:25:27 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 2.10 ug/l
 RT: 14.27 min Scan# 3945
 Delta R.T. 0.00 min
 Lab File: VN049794.D
 Acq: 13 Jul 2018 13:58

Tgt Ion	Ratio	Lower	Upper
75	100		
155	91.7	45.7	137.1
157	104.4	56.9	170.7





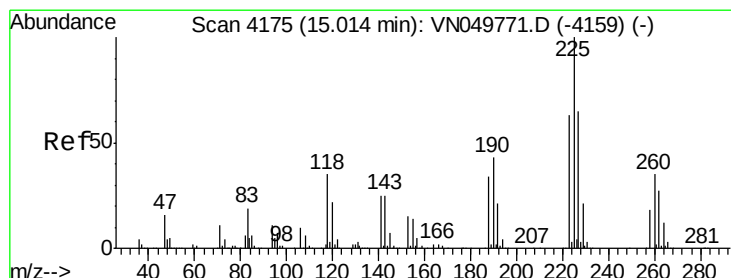
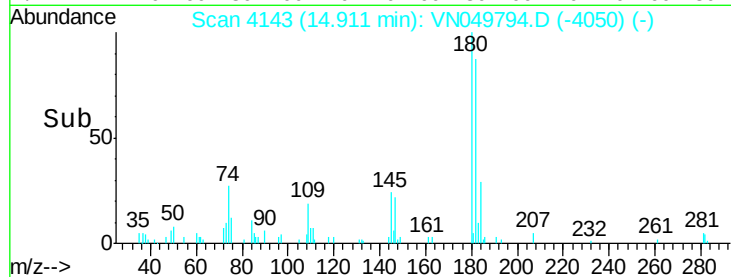
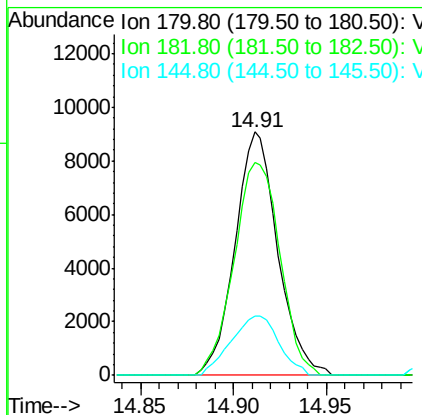
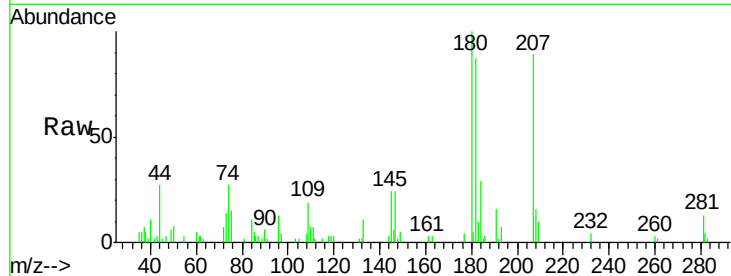
#93
 1,2,4-Trichlorobenzene
 Concen: 4.00 ug/l
 RT: 14.91 min Scan# 4143
 Delta R.T. 0.00 min
 Lab File: VN049794.D
 Acq: 13 Jul 2018 13:58

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT3-2018

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.0	47.3	141.9
145	27.3	14.4	43.0

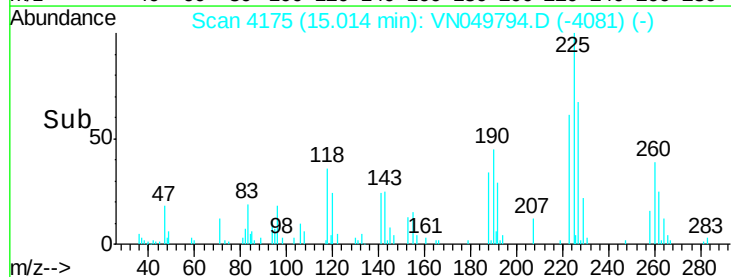
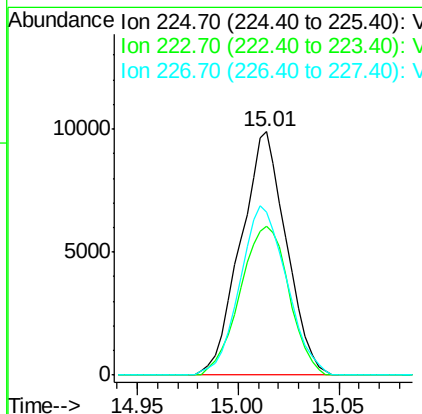
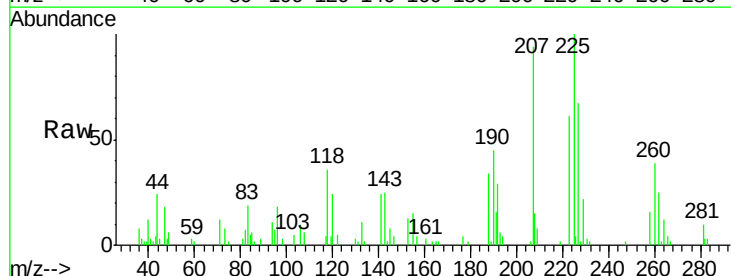
Manual Integrations
 APPROVED

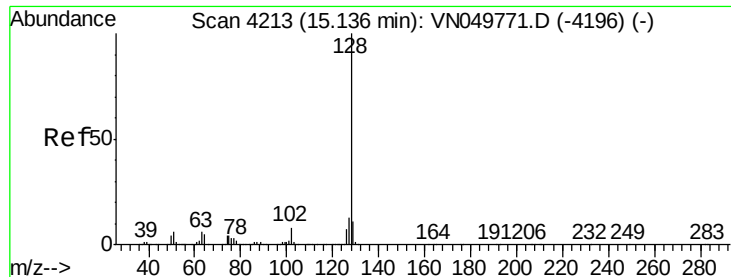
MMDadoda
 7/16/2018 11:25:27 AM



#94
 Hexachlorobutadiene
 Concen: 1.24 ug/l
 RT: 15.01 min Scan# 4175
 Delta R.T. 0.00 min
 Lab File: VN049794.D
 Acq: 13 Jul 2018 13:58

Tgt Ion	Ratio	Lower	Upper
225	100		
223	65.4	30.9	92.7
227	71.3	31.8	95.4





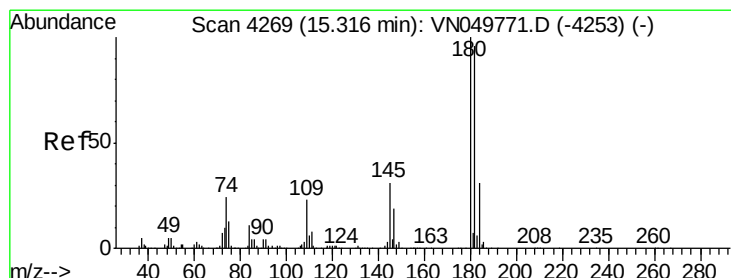
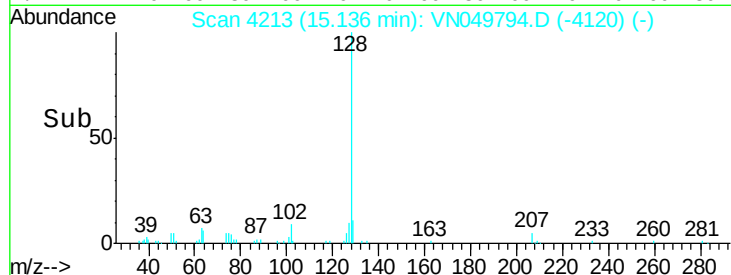
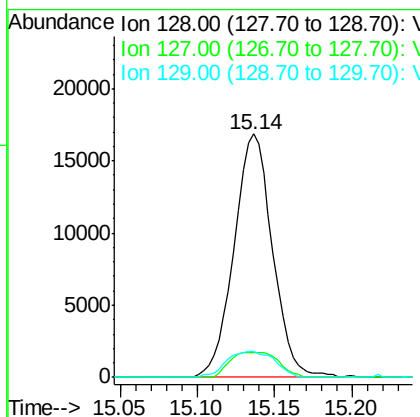
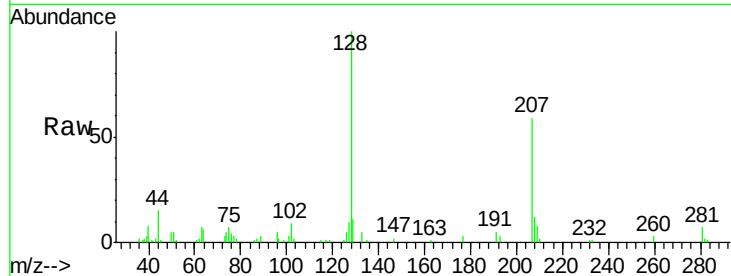
#95
Naphthalene
Concen: 5.03 ug/l
RT: 15.14 min Scan# 4213
Delta R.T. 0.00 min
Lab File: VN049794.D
Acq: 13 Jul 2018 13:58

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT3-2018

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.4	15.6
129	13.4	8.6	13.0

Manual Integrations
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7/16/2018 11:25:27 AM



#96
1,2,3-Trichlorobenzene
Concen: 1.53 ug/l
RT: 15.32 min Scan# 4269
Delta R.T. 0.00 min
Lab File: VN049794.D
Acq: 13 Jul 2018 13:58

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.2	47.4	142.2
145	32.3	15.2	45.6

