

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071218\
 Data File : VN049782.D
 Acq On : 12 Jul 2018 21:02
 Operator : MD\SY
 Sample : J3762-08 LOO 2ppb
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

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

Manual Integrations
 APPROVED

MMDadoda
 7/13/2018 1:35:37 PM

Quant Time: Jul 13 04:56:19 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	1074369	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1668852	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1455987	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	613048	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	667529	53.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.82%	
35) Dibromofluoromethane	7.60	113	633522	50.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.72%	
50) Toluene-d8	10.09	98	1932494	44.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.76%	
62) 4-Bromofluorobenzene	12.40	95	611685	39.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	79.54%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	24451	1.36	ug/l	99
3) Chloromethane	2.06	50	32705	1.57	ug/l	97
4) Vinyl Chloride	2.18	62	36402	2.05	ug/l	97
5) Bromomethane	2.57	94	26277	1.93	ug/l	99
6) Chloroethane	2.71	64	23499	2.46	ug/l	98
7) Trichlorofluoromethane	3.02	101	47376	2.33	ug/l	97
8) Diethyl Ether	3.41	74	16833	2.31	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.76	101	29839	2.26	ug/l	# 87
12) 1,1-Dichloroethene	3.74	96	26104	2.25	ug/l	97
14) Allyl chloride	4.33	41	42722	2.25	ug/l	99
15) Acrylonitrile	5.00	53	42583	10.17	ug/l	98
16) Acetone	3.83	43	34792	9.31	ug/l	91
17) Carbon Disulfide	4.05	76	76465	2.16	ug/l	99
18) Methyl Acetate	4.33	43	35303	2.68	ug/l	94
19) Methyl tert-butyl Ether	5.06	73	66595	2.07	ug/l	99
20) Methylene Chloride	4.55	84	35168	1.86	ug/l	95
21) trans-1,2-Dichloroethene	5.05	96	26730	2.10	ug/l	96
22) Diisopropyl ether	5.97	45	75829	1.95	ug/l	96
23) Vinyl Acetate	5.91	43	251866	9.65	ug/l	99
24) 1,1-Dichloroethane	5.85	63	55529	2.27	ug/l	98
25) 2-Butanone	6.85	43	48027	9.86	ug/l	97
26) 2,2-Dichloropropane	6.83	77	41857	2.06	ug/l	99
27) cis-1,2-Dichloroethene	6.84	96	31052	2.14	ug/l	98
29) Tetrahydrofuran	7.22	42	29304	9.58	ug/l	97
30) Chloroform	7.38	83	57748	2.29	ug/l	98
31) Cyclohexane	7.66	56	56838	2.68	ug/l	# 63
32) 1,1,1-Trichloroethane	7.57	97	48167	2.25	ug/l	96
36) 1,1-Dichloropropene	7.80	75	36696	1.91	ug/l	96
37) Ethyl Acetate	6.94	43	16477	1.45	ug/l	# 80
38) Carbon Tetrachloride	7.78	117	42641	2.12	ug/l	98
39) Methylcyclohexane	9.08	83	36815	1.82	ug/l	95
40) Benzene	8.05	78	120178	2.09	ug/l	100
41) Methacrylonitrile	7.18	41	13643	2.12	ug/l	# 80
42) 1,2-Dichloroethane	8.12	62	41360	2.20	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Isopropyl Acetate	8.17	43	39155	1.91	ug/l	97
44) Trichloroethene	8.84	130	32718	2.11	ug/l	97
45) 1,2-Dichloropropane	9.12	63	33444	2.16	ug/l	99
46) Dibromomethane	9.21	93	20375	2.22	ug/l	96
47) Bromodichloromethane	9.41	83	40525	2.00	ug/l	97
48) Methyl methacrylate	9.20	41	17488	1.71	ug/l #	92
49) 1,4-Dioxane	9.20	88	4699	35.06	ug/l #	73
51) 4-Methyl-2-Pentanone	9.99	43	102756	9.25	ug/l	96
52) Toluene	10.16	92	71614	2.08	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	34711	1.78	ug/l	98
54) cis-1,3-Dichloropropene	9.84	75	42109	1.90	ug/l #	88
55) 1,1,2-Trichloroethane	10.56	97	32012	1.80	ug/l	96
56) Ethyl methacrylate	10.43	69	26223	1.69	ug/l	99
57) 1,3-Dichloropropane	10.71	76	44025	2.01	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.70	63	56163	7.53	ug/l	98
59) 2-Hexanone	10.76	43	63262	8.57	ug/l	94
60) Dibromochloromethane	10.90	129	28720	1.90	ug/l	99
61) 1,2-Dibromoethane	11.01	107	24759	1.98	ug/l	93
64) Tetrachloroethene	10.63	164	30981	2.34	ug/l	87
65) Chlorobenzene	11.44	112	77101	2.03	ug/l	96
66) 1,1,1,2-Tetrachloroethane	11.51	131	31264	2.19	ug/l	97
67) Ethyl Benzene	11.51	91	115238	1.86	ug/l	96
68) m/p-Xylenes	11.62	106	83677	3.59	ug/l	100
69) o-Xylene	11.95	106	40167	1.78	ug/l	97
70) Styrene	11.97	104	59162	1.65	ug/l	98
71) Bromoform	12.13	173	18914	1.96	ug/l #	99
73) Isopropylbenzene	12.25	105	104095	2.04	ug/l	99
74) N-amyl acetate	12.07	43	23352	1.76	ug/l	98
75) 1,1,1,2-Tetrachloroethane	12.51	83	31854	0.78	ug/l	97
76) 1,2,3-Trichloropropane	12.56	75	27655m	2.54	ug/l	
77) Bromobenzene	12.53	156	31958	2.36	ug/l	95
78) n-propylbenzene	12.59	91	120044	2.09	ug/l	99
79) 2-Chlorotoluene	12.68	91	79915	2.27	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	79778	1.97	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.30	75	5907m	1.75	ug/l	
82) 4-Chlorotoluene	12.78	91	70958	2.04	ug/l	99
83) tert-Butylbenzene	12.99	119	74286	2.05	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	75297	1.85	ug/l	100
85) sec-Butylbenzene	13.17	105	92755	1.95	ug/l	100
86) p-Isopropyltoluene	13.29	119	72641	1.81	ug/l	97
87) 1,3-Dichlorobenzene	13.28	146	47595	2.03	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	49656	2.18	ug/l	90
89) n-Butylbenzene	13.62	91	55529	1.67	ug/l	96
90) Hexachloroethane	13.88	117	18968	1.63	ug/l	99
91) 1,2-Dichlorobenzene	13.66	146	48973	2.14	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.27	75	5059	2.34	ug/l	78
93) 1,2,4-Trichlorobenzene	14.91	180	15244	4.03	ug/l	97
94) Hexachlorobutadiene	15.01	225	16808	1.36	ug/l	96
95) Naphthalene	15.14	128	30884	5.07	ug/l	99
96) 1,2,3-Trichlorobenzene	15.32	180	17785	1.60	ug/l	96

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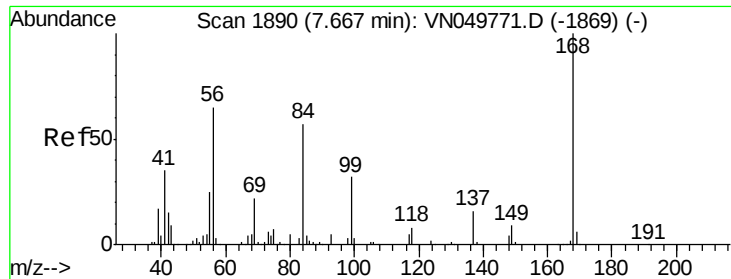
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN049782.D

Acq: 12 Jul 2018 21:02

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT3-2018

Tot Ion:168 Resp: 1074369

Ion Ratio Lower Upper

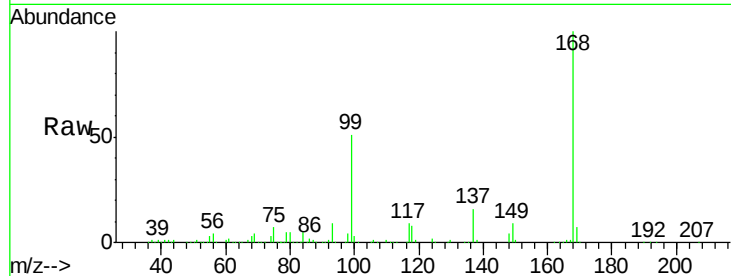
168 100

99 51.2 40.6 61.0

Manual Integrations
APPROVED

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

400000

300000

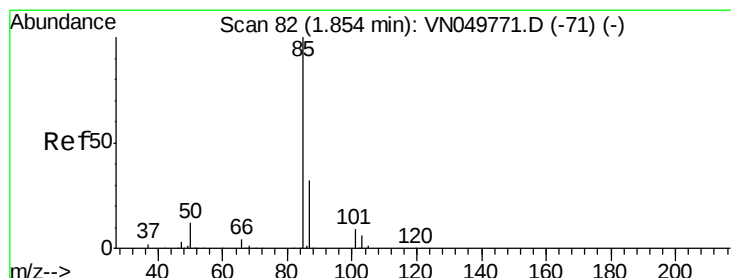
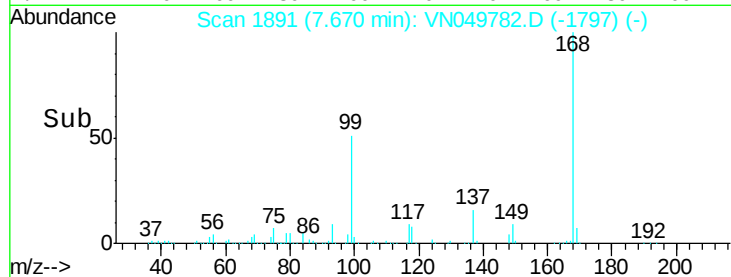
200000

100000

0

7.60 7.70 7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 1.36 ug/l

RT: 1.85 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN049782.D

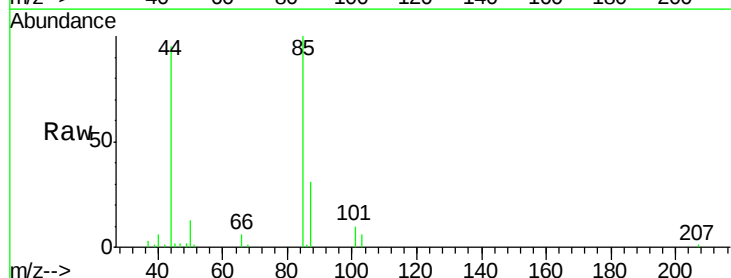
Acq: 12 Jul 2018 21:02

Tgt Ion: 85 Resp: 24451

Ion Ratio Lower Upper

85 100

87 31.3 15.4 46.1



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.85

20000

15000

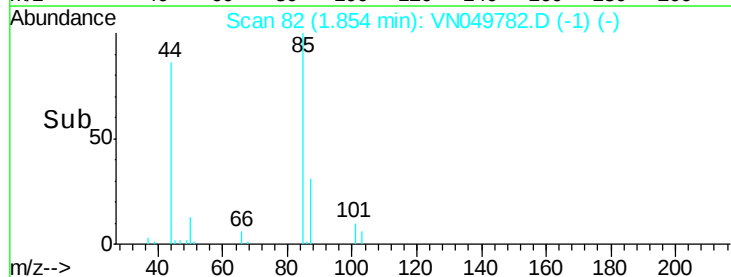
10000

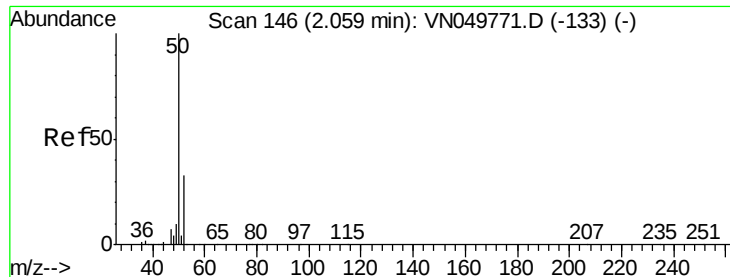
5000

0

1.80 1.85 1.90

Time-->





#3

Chloromethane

Concen: 1.57 ug/l

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN049782.D

Acq: 12 Jul 2018 21:02

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT3-2018

Tot Ion: 50 Resp: 32705

Ion Ratio Lower Upper

50 100

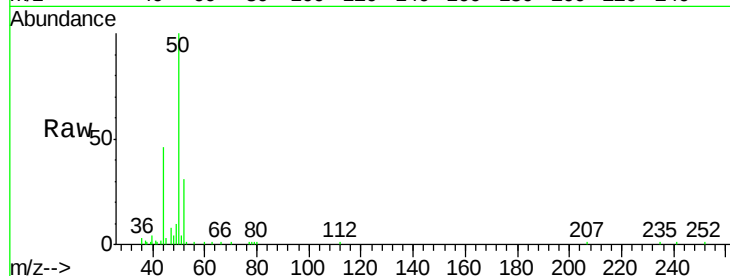
52 30.7 26.1 39.1

Manual Integrations

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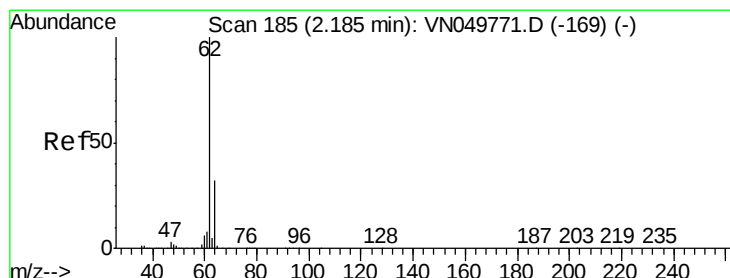
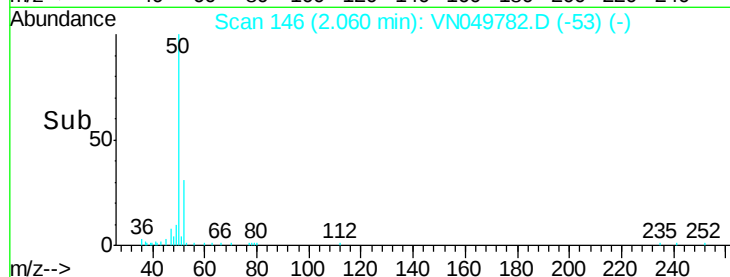
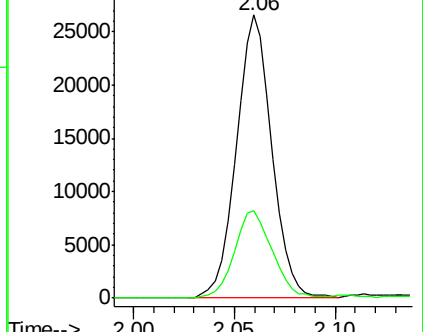
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Abundance Ion 49.90 (49.60 to 50.60): VN049771.D (-133) (-)

Ion 51.90 (51.60 to 52.60): VN049782.D (-53) (-)



#4

Vinyl Chloride

Concen: 2.05 ug/l

RT: 2.18 min Scan# 185

Delta R.T. 0.00 min

Lab File: VN049782.D

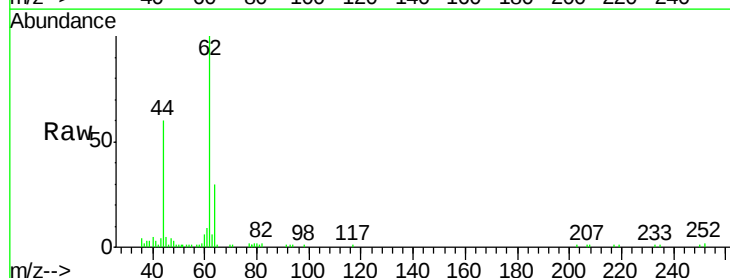
Acq: 12 Jul 2018 21:02

Tgt Ion: 62 Resp: 36402

Ion Ratio Lower Upper

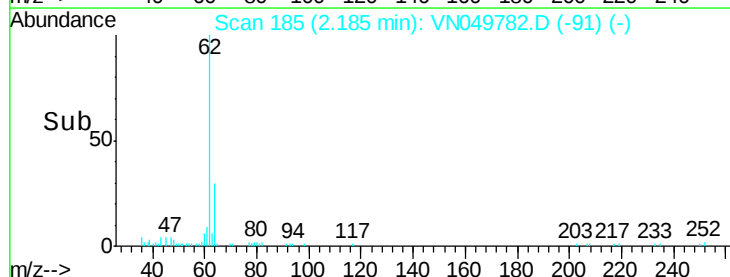
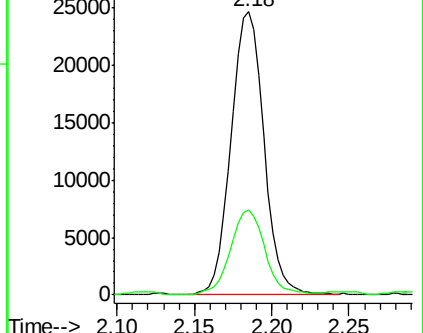
62 100

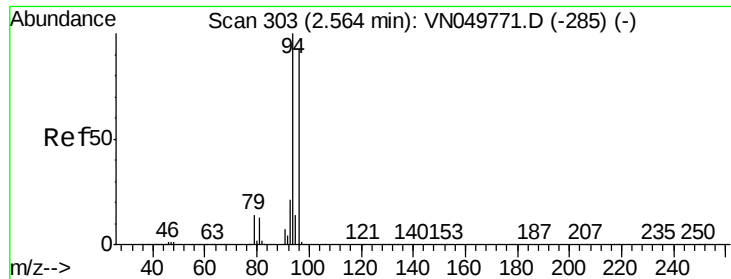
64 29.9 25.4 38.0



Abundance Ion 61.90 (61.60 to 62.60): VN049771.D (-169) (-)

Ion 63.90 (63.60 to 64.60): VN049782.D (-91) (-)





#5

Bromomethane

Concen: 1.93 ug/l

RT: 2.57 min Scan# 304

Delta R.T. 0.00 min

Lab File: VN049782.D

Acq: 12 Jul 2018 21:02

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT3-2018

Tot Ion: 94 Resp: 26277

Ion Ratio Lower Upper

94 100

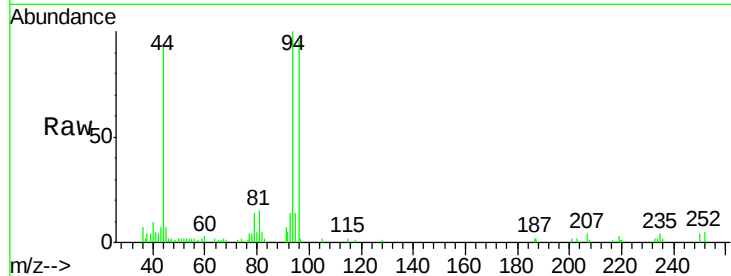
96 95.9 75.7 113.5

Manual Integrations

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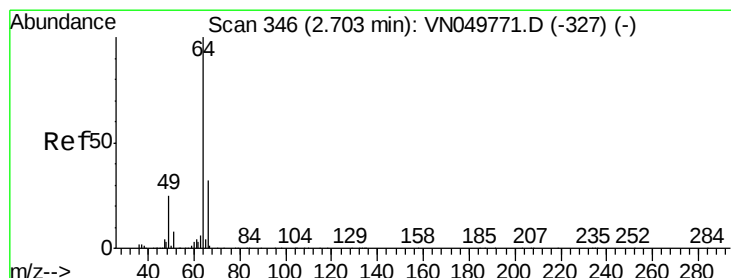
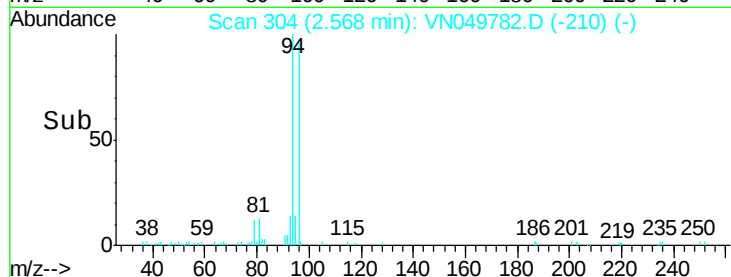
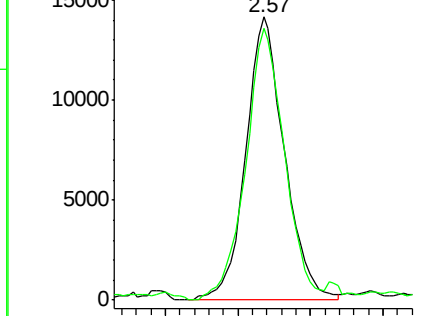
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Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 2.46 ug/l

RT: 2.71 min Scan# 347

Delta R.T. 0.00 min

Lab File: VN049782.D

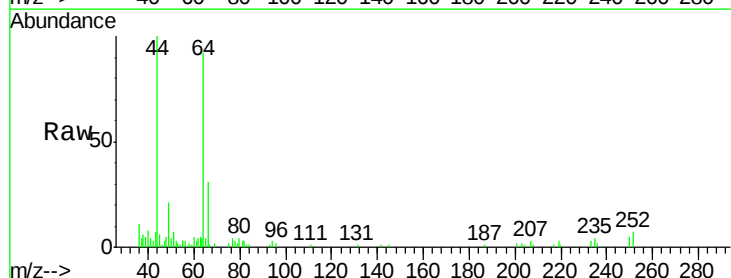
Acq: 12 Jul 2018 21:02

Tgt Ion: 64 Resp: 23499

Ion Ratio Lower Upper

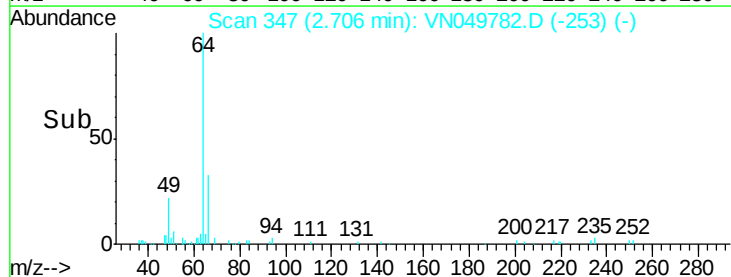
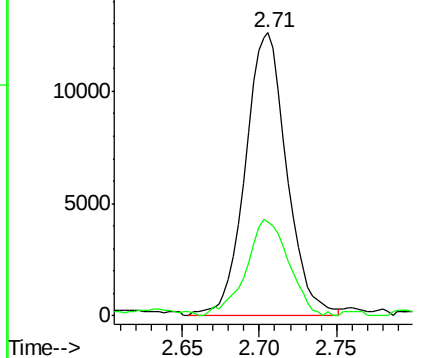
64 100

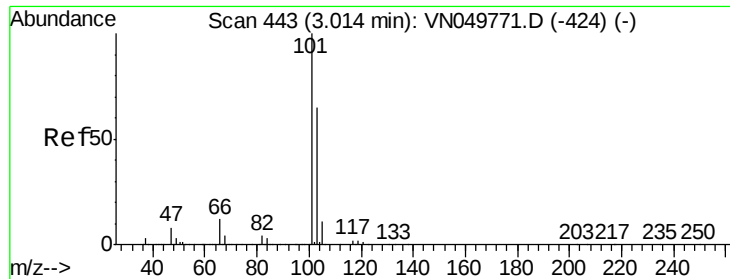
66 33.3 25.6 38.4



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#7

Trichlorofluoromethane

Concen: 2.33 ug/l

RT: 3.02 min Scan# 444

Delta R.T. 0.00 min

Lab File: VN049782.D

Acq: 12 Jul 2018 21:02

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT3-2018

Tot Ion:101 Resp: 47376

Ion Ratio Lower Upper

101 100

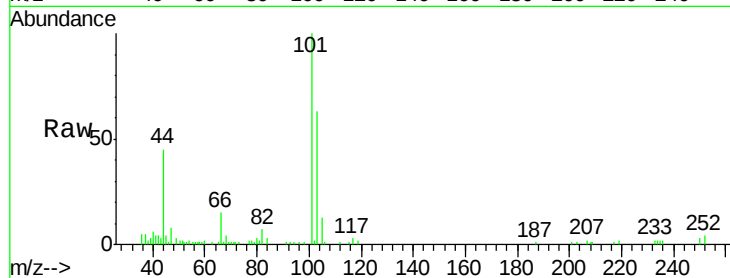
103 63.4 52.8 79.2

Manual Integrations

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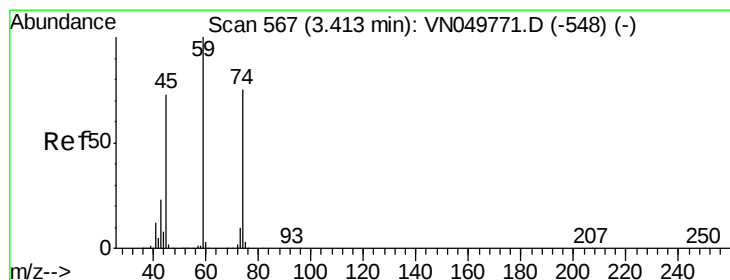
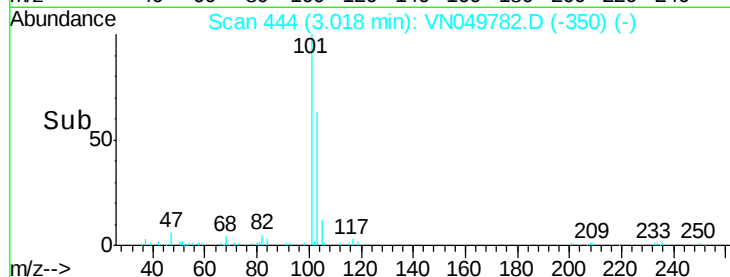
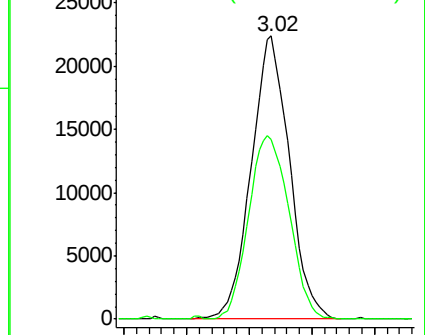
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Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V



#8

Diethyl Ether

Concen: 2.31 ug/l

RT: 3.41 min Scan# 567

Delta R.T. 0.00 min

Lab File: VN049782.D

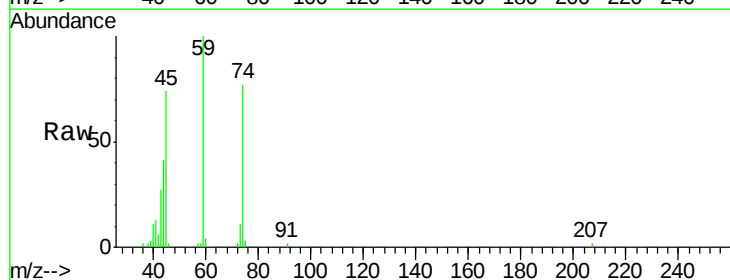
Acq: 12 Jul 2018 21:02

Tgt Ion: 74 Resp: 16833

Ion Ratio Lower Upper

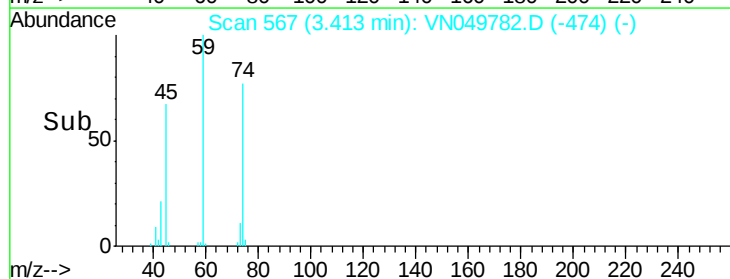
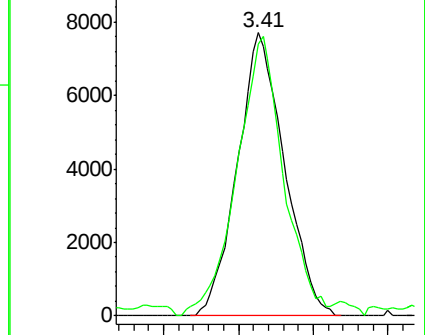
74 100

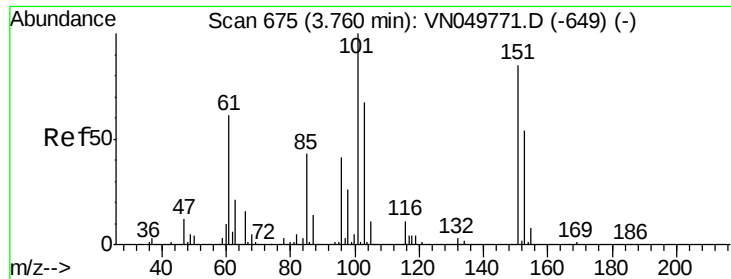
45 98.1 48.4 145.2



Abundance Ion 74.00 (73.70 to 74.70): V

Ion 45.00 (44.70 to 45.70): V





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.26 ug/l

RT: 3.76 min Scan# 675

Delta R.T. 0.00 min

Lab File: VN049782.D

Acq: 12 Jul 2018 21:02

Instrument :

MSVOA_N

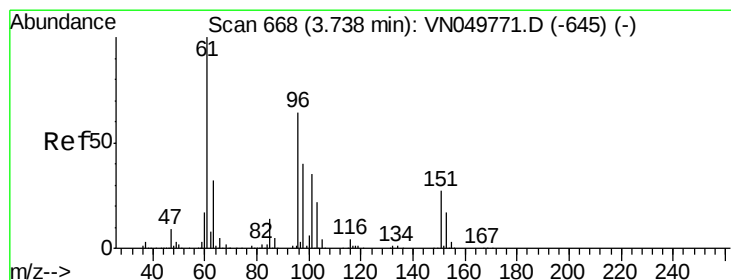
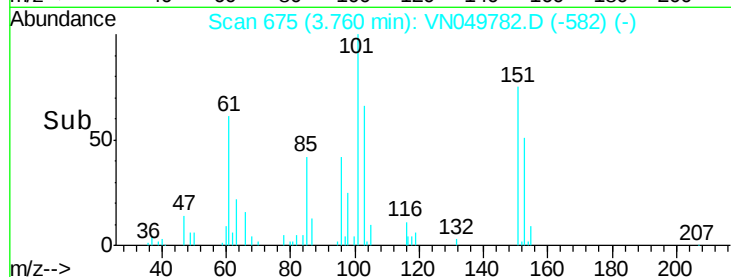
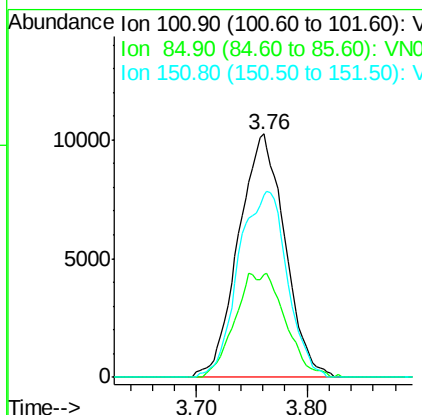
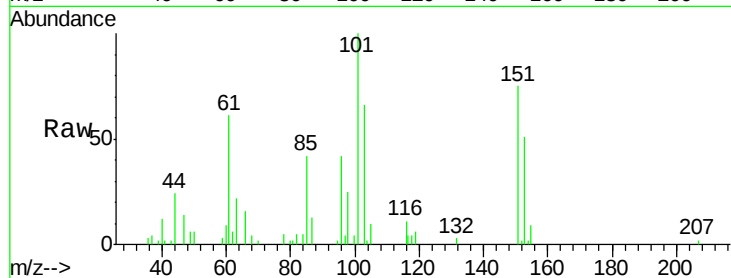
ClientSampleId :

LOQ-WATER-02-QT3-2018

Tot Ion:	101	Resp:	29839
Ion Ratio	Lower	Upper	
101	100		
85	21.3	34.4	51.6#
151	80.2	66.2	99.4

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MMDadoda
7/13/2018 1:35:37 PM



#12

1,1-Dichloroethene

Concen: 2.25 ug/l

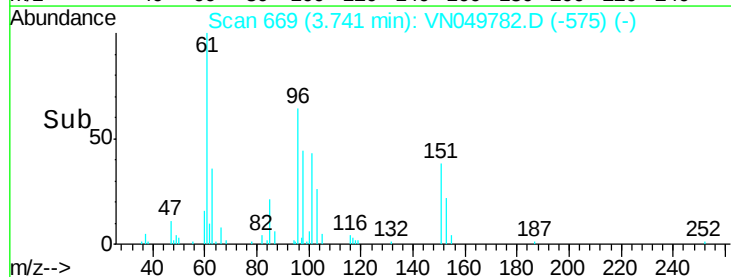
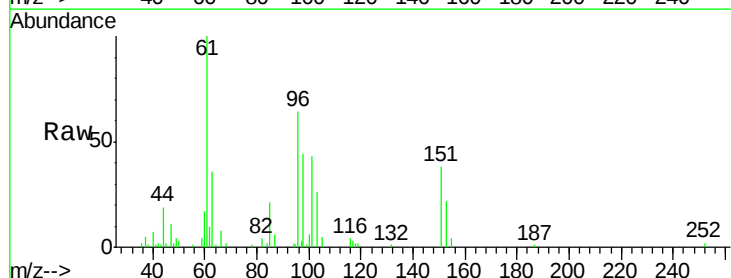
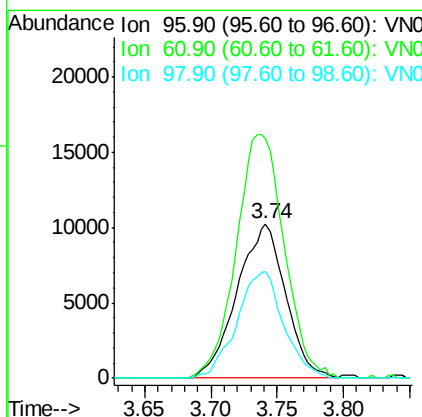
RT: 3.74 min Scan# 669

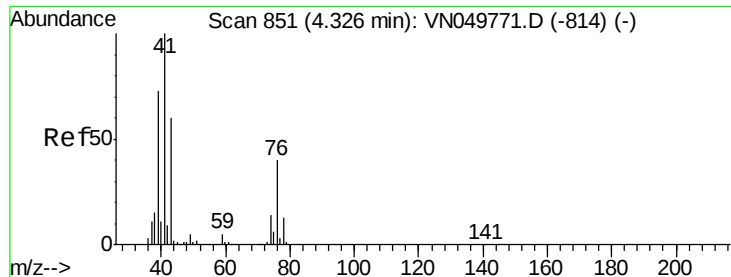
Delta R.T. 0.00 min

Lab File: VN049782.D

Acq: 12 Jul 2018 21:02

Tgt Ion:	96	Resp:	26104
Ion Ratio	Lower	Upper	
96	100		
61	155.3	126.5	189.7
98	68.8	51.0	76.6





#14

Allvl chloride

Concen: 2.25 ug/l

RT: 4.33 min Scan# 851

Delta R.T. 0.00 min

Lab File: VN049782.D

Acq: 12 Jul 2018 21:02

Instrument :

MSVOA_N

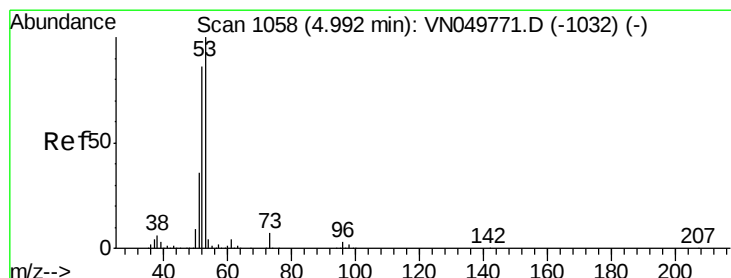
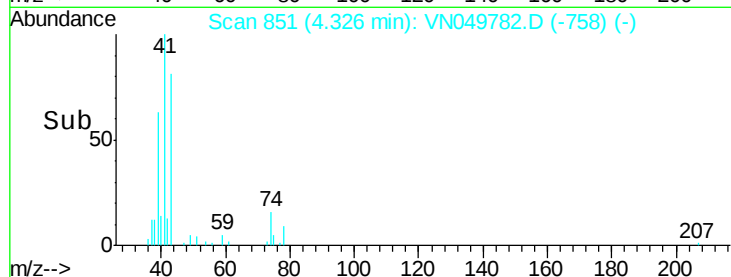
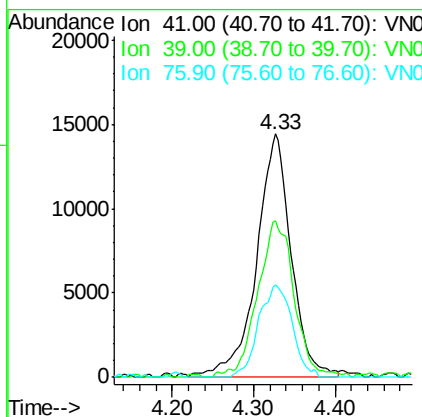
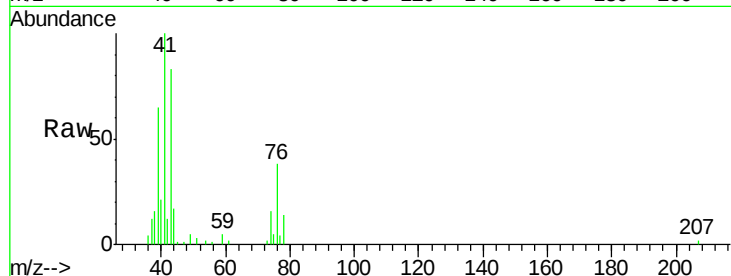
ClientSampleId :

LOQ-WATER-02-QT3-2018

Tot Ion:	41	Resp:	42722
Ion	Ratio	Lower	Upper
41	100		
39	68.1	53.2	79.8
76	36.5	29.0	43.6

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#15

Acrylonitrile

Concen: 10.17 ug/l

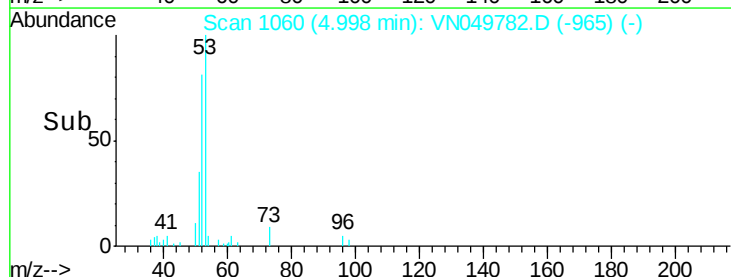
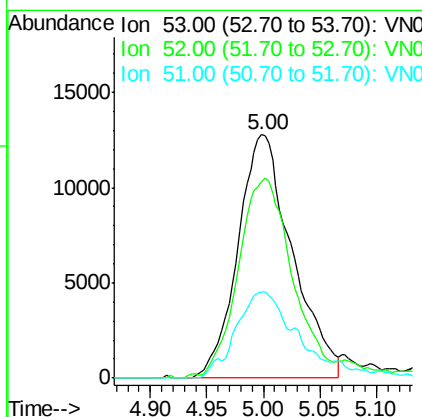
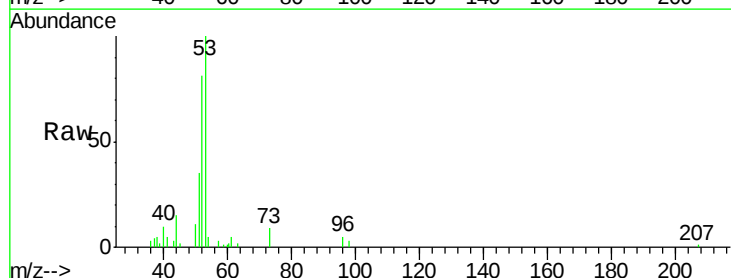
RT: 5.00 min Scan# 1060

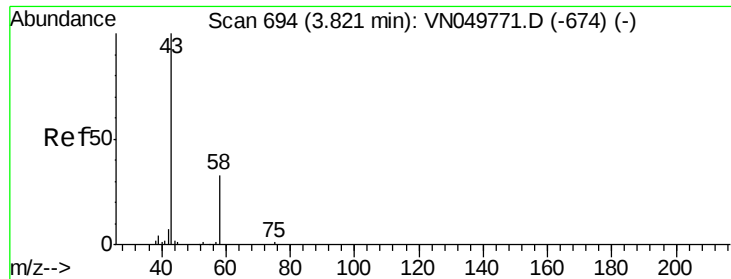
Delta R.T. 0.01 min

Lab File: VN049782.D

Acq: 12 Jul 2018 21:02

Tgt Ion:	53	Resp:	42583
Ion	Ratio	Lower	Upper
53	100		
52	81.9	64.8	97.2
51	38.0	28.9	43.3





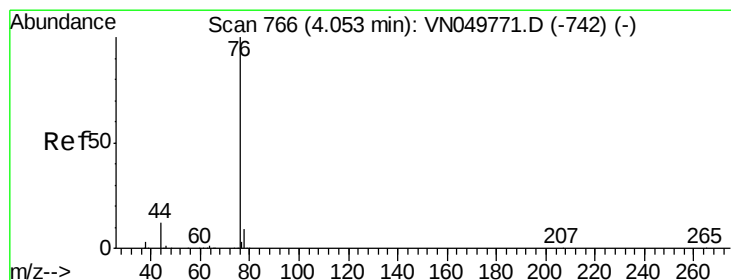
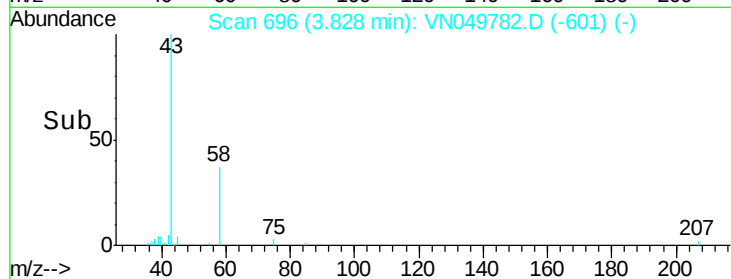
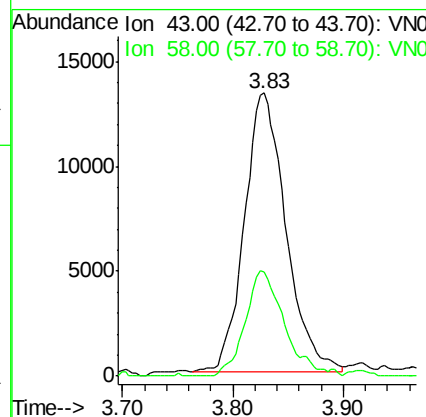
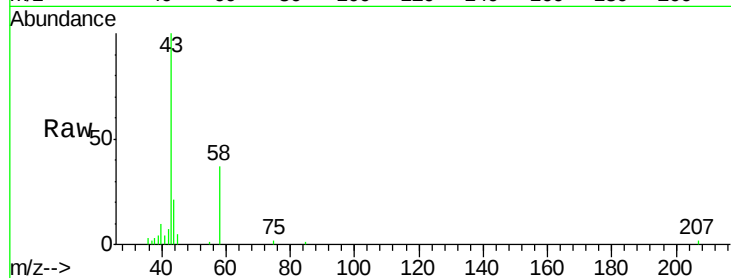
#16
Acetone
Concen: 9.31 ug/l
RT: 3.83 min Scan# 696
Delta R.T. 0.01 min
Lab File: VN049782.D
Acq: 12 Jul 2018 21:02

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

Tot Ion: 43 Resp: 34792
Ion Ratio Lower Upper
43 100
58 37.3 25.9 38.9

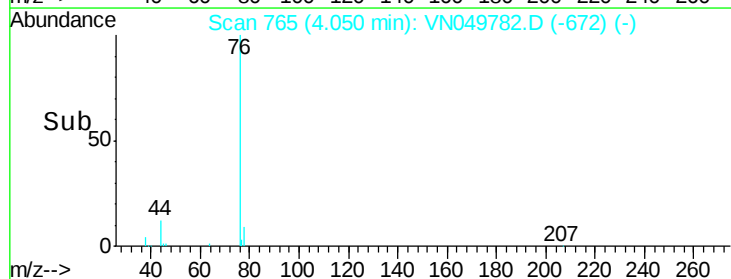
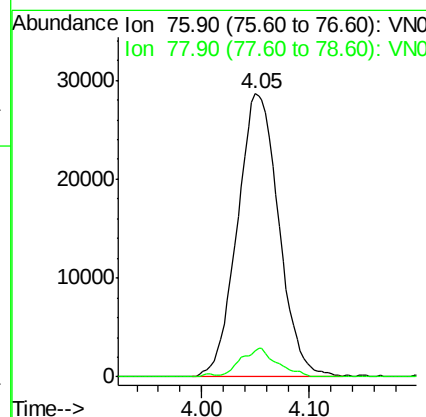
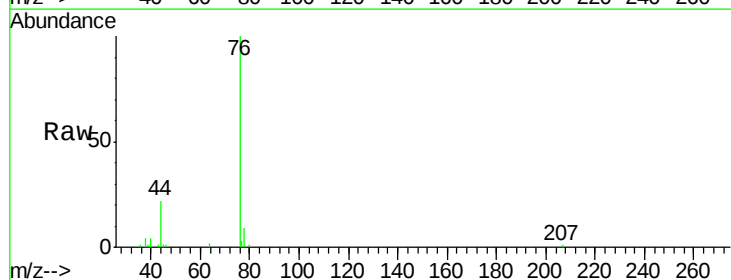
Manual Integrations
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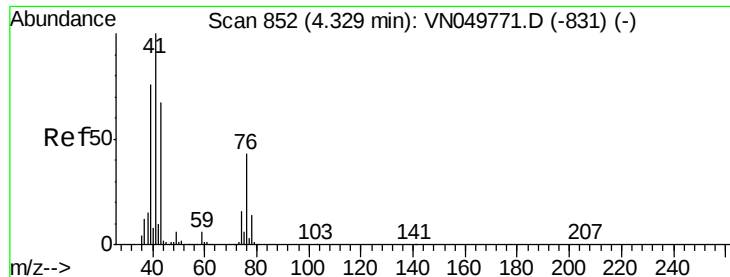
MMDadoda
7/13/2018 1:35:37 PM



#17
Carbon Disulfide
Concen: 2.16 ug/l
RT: 4.05 min Scan# 765
Delta R.T. -0.00 min
Lab File: VN049782.D
Acq: 12 Jul 2018 21:02

Tgt Ion: 76 Resp: 76465
Ion Ratio Lower Upper
76 100
78 9.3 7.1 10.7





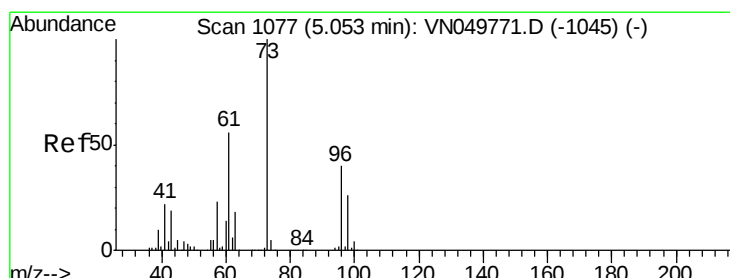
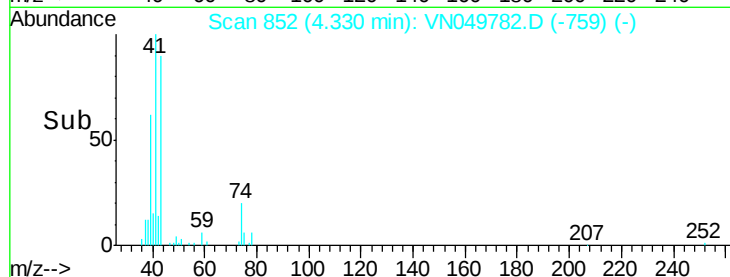
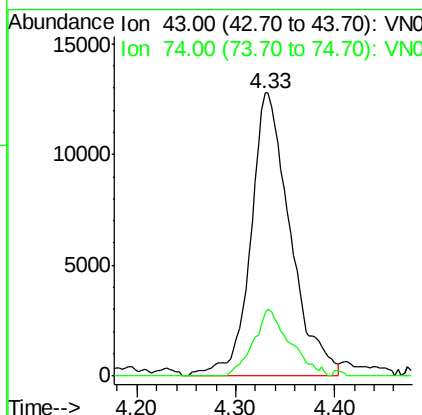
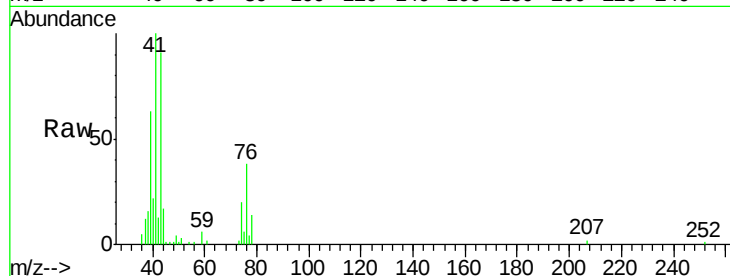
#18
Methvl Acetate
Concen: 2.68 ug/l
RT: 4.33 min Scan# 852
Delta R.T. 0.00 min
Lab File: VN049782.D
Acq: 12 Jul 2018 21:02

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

Tot Ion: 43 Resp: 35303
Ion Ratio Lower Upper
43 100
74 21.8 19.8 29.8

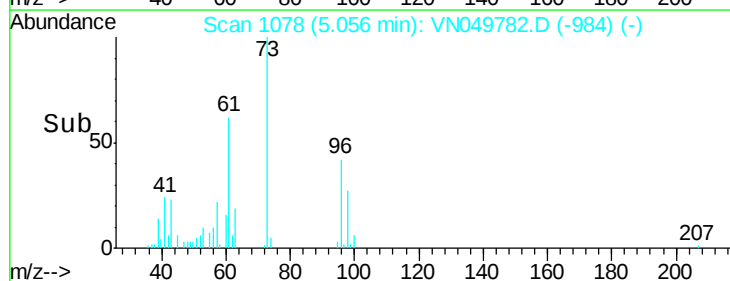
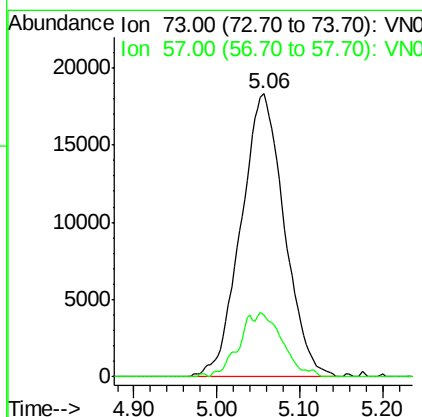
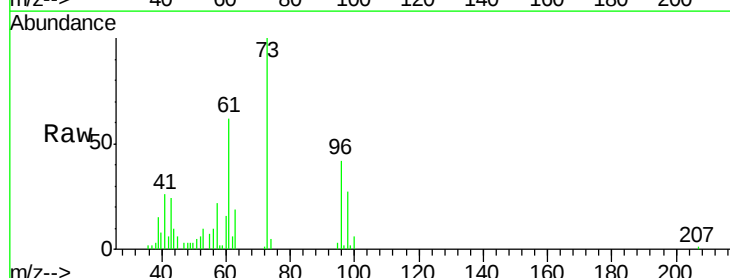
Manual Integrations
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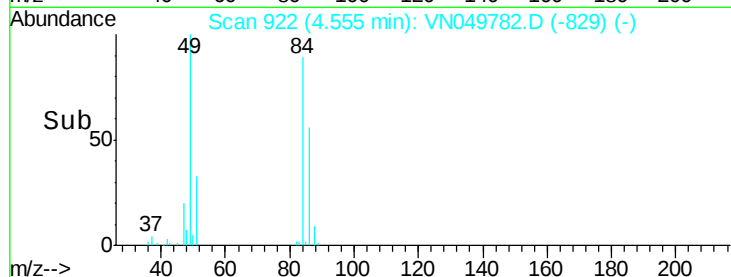
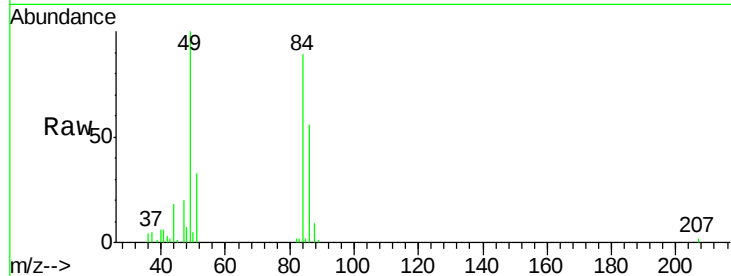
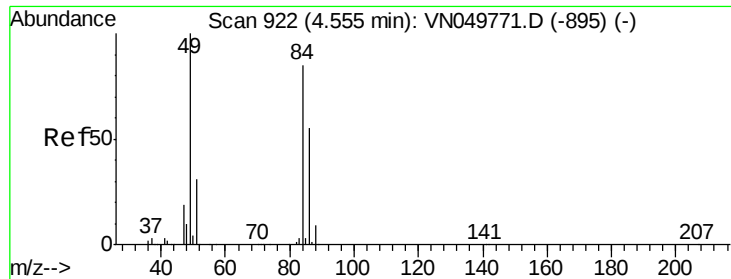
MMDadoda
7/13/2018 1:35:37 PM



#19
Methyl tert-butyl Ether
Concen: 2.07 ug/l
RT: 5.06 min Scan# 1078
Delta R.T. 0.00 min
Lab File: VN049782.D
Acq: 12 Jul 2018 21:02

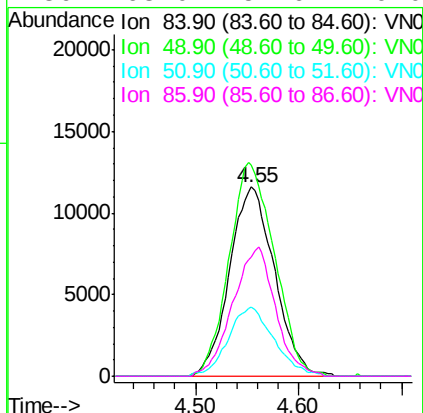
Tgt Ion: 73 Resp: 66595
Ion Ratio Lower Upper
73 100
57 21.9 18.1 27.1





#20
Methvlene Chloride
Concen: 1.86 ug/l
RT: 4.55 min Scan# 922
Delta R.T. 0.00 min
Lab File: VN049782.D
Acq: 12 Jul 2018 21:02

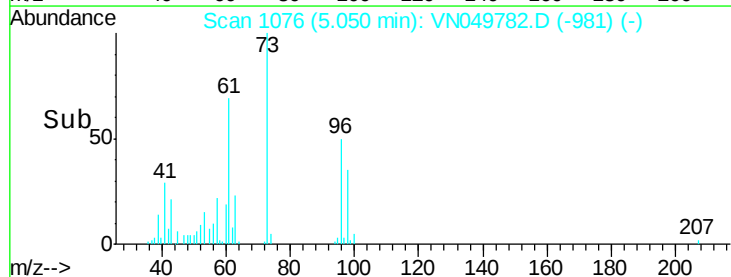
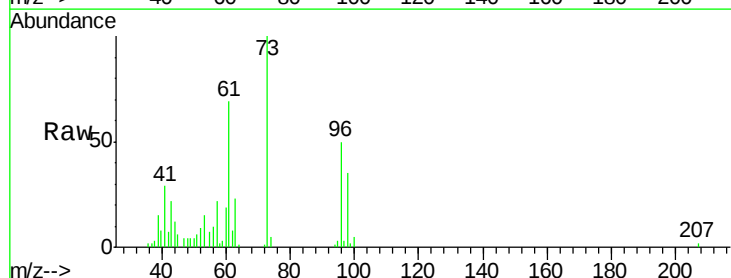
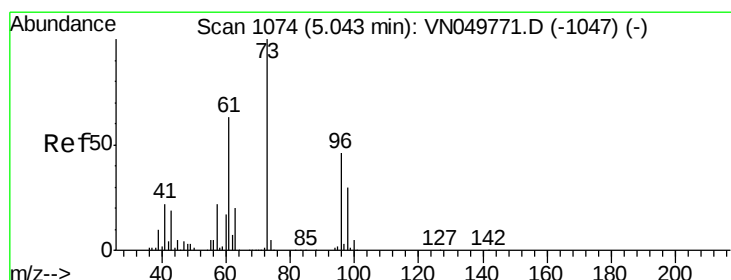
Tot Ion	84	Resp	35168
Ion Ratio	Lower	Upper	
84	100		
49	111.8	95.4	143.2
51	36.4	28.4	42.6
86	63.0	52.6	79.0



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

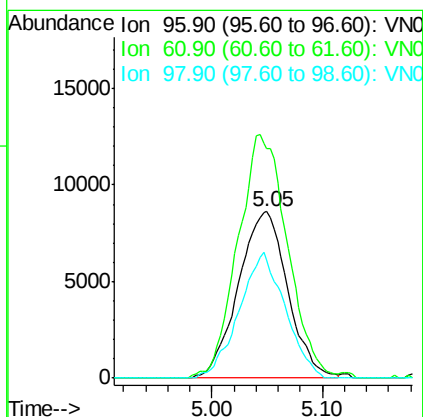
Manual Integrations
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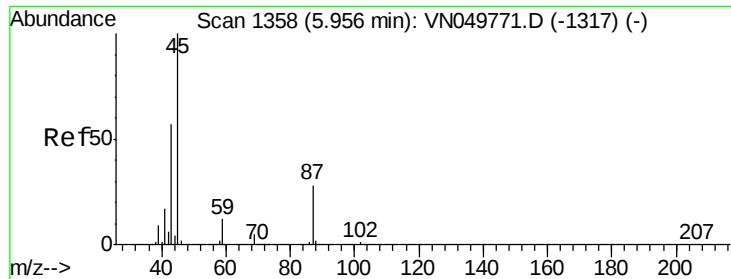
MMDadoda
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#21
trans-1,2-Dichloroethene
Concen: 2.10 ug/l
RT: 5.05 min Scan# 1076
Delta R.T. 0.01 min
Lab File: VN049782.D
Acq: 12 Jul 2018 21:02

Tgt Ion	96	Resp	26730
Ion Ratio	Lower	Upper	
96	100		
61	138.0	109.0	163.6
98	70.9	51.1	76.7





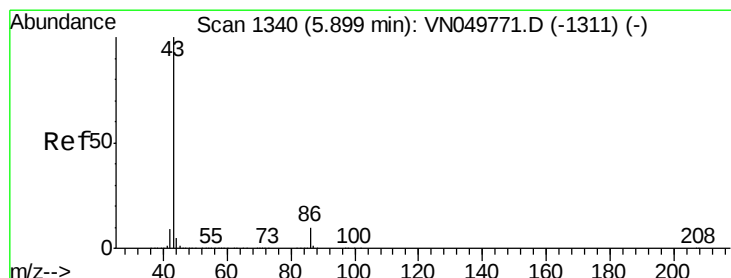
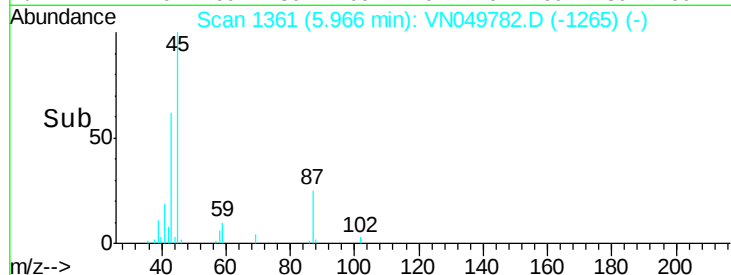
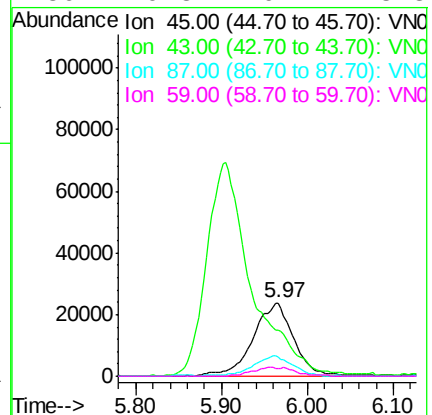
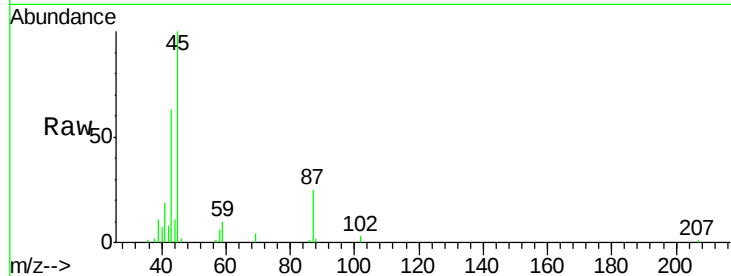
#22
Diisopropyl ether
Concen: 1.95 ug/l
RT: 5.97 min Scan# 1361
Delta R.T. 0.01 min
Lab File: VN049782.D
Acq: 12 Jul 2018 21:02

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

Tot Ion	45	Resp:	75829
Ion Ratio	Lower	Upper	
45	100		
43	58.4	48.1	72.1
87	25.0	22.6	34.0
59	9.8	9.2	13.8

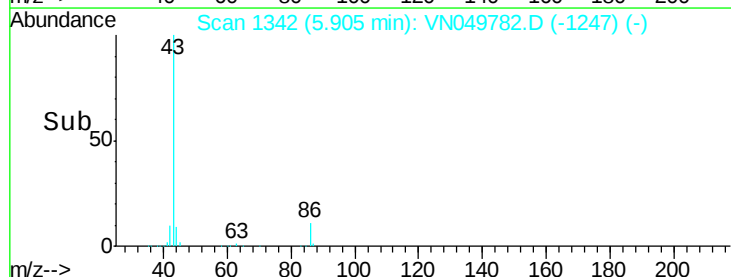
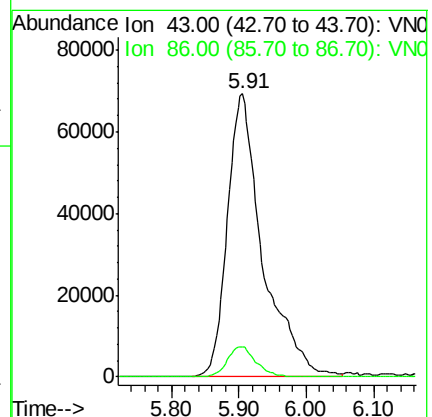
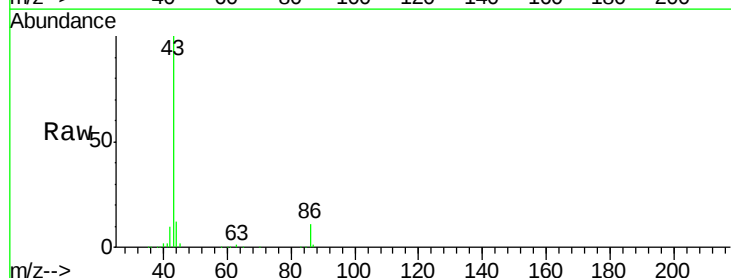
Manual Integrations
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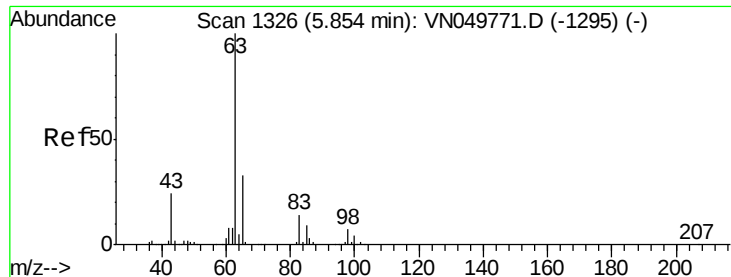
MMDadoda
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#23
Vinyl Acetate
Concen: 9.65 ug/l
RT: 5.91 min Scan# 1342
Delta R.T. 0.01 min
Lab File: VN049782.D
Acq: 12 Jul 2018 21:02

Tgt Ion	43	Resp:	251866
Ion Ratio	Lower	Upper	
43	100		
86	10.8	8.4	12.6





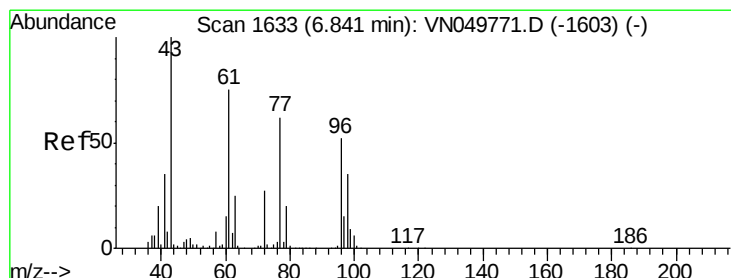
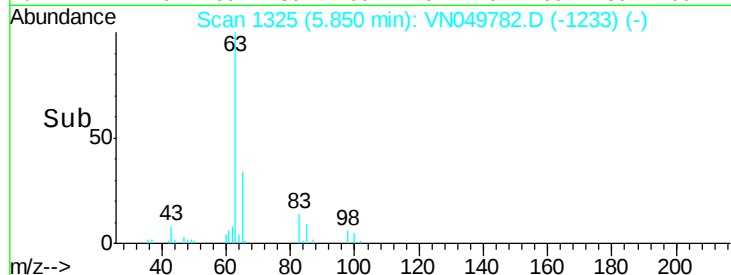
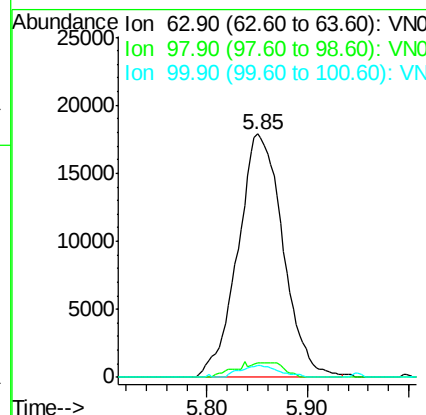
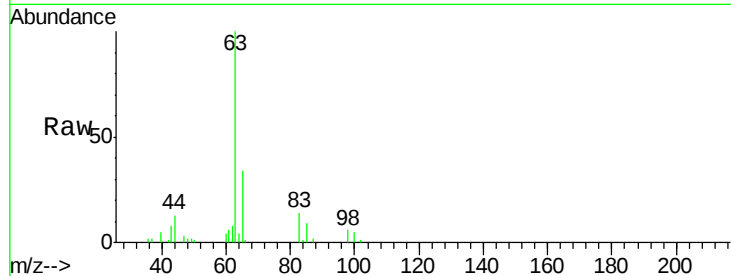
#24
 1,1-Dichloroethane
 Concen: 2.27 ug/l
 RT: 5.85 min Scan# 1325
 Delta R.T. -0.00 min
 Lab File: VN049782.D
 Acq: 12 Jul 2018 21:02

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

Tot Ion	Ratio	Resp	Lower	Upper
63	100	55529		
98	5.9		3.4	10.2
100	4.6		2.2	6.6

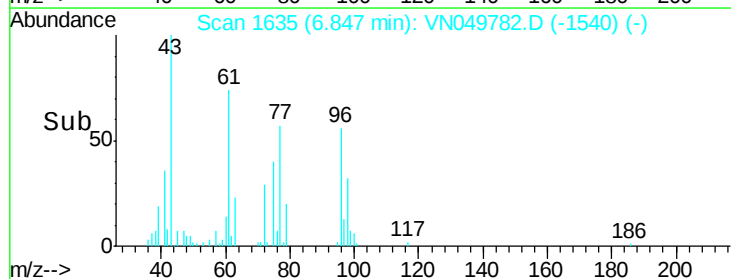
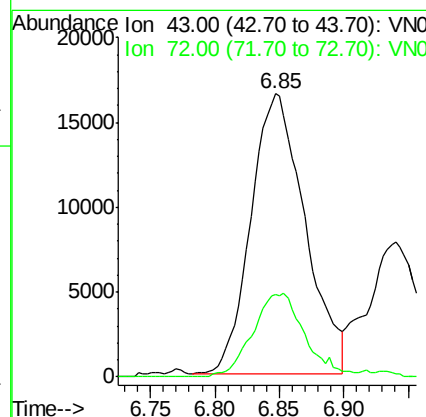
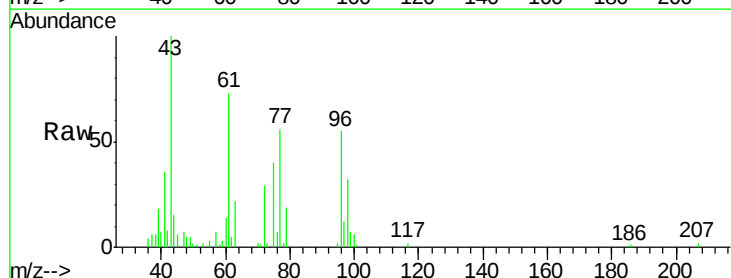
Manual Integrations
 APPROVED

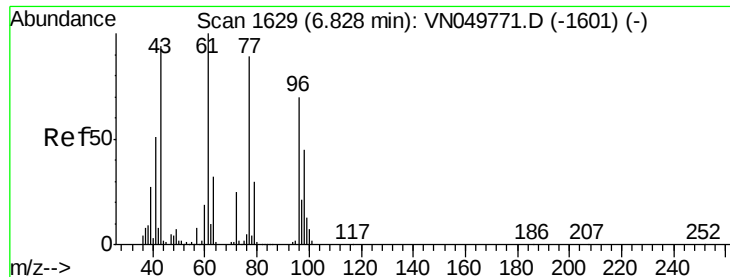
MMDadoda
 7/13/2018 1:35:37 PM



#25
 2-Butanone
 Concen: 9.86 ug/l
 RT: 6.85 min Scan# 1635
 Delta R.T. 0.01 min
 Lab File: VN049782.D
 Acq: 12 Jul 2018 21:02

Tgt Ion	Ratio	Resp	Lower	Upper
43	100	48027		
72	29.3		22.1	33.1





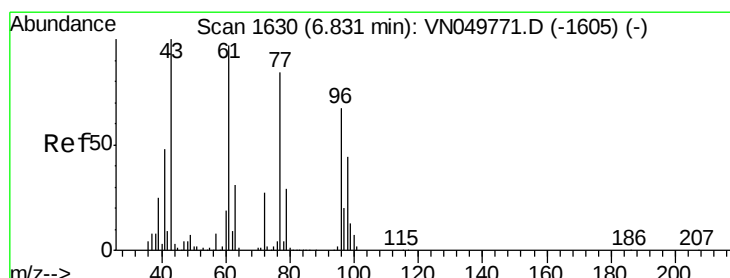
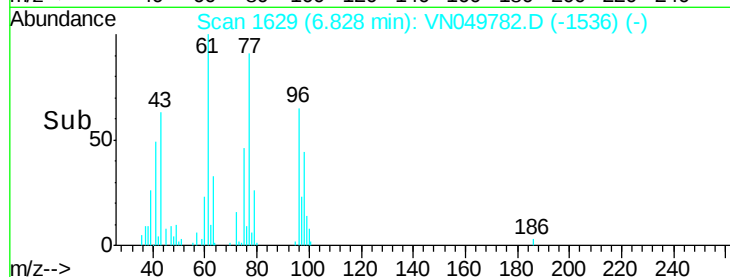
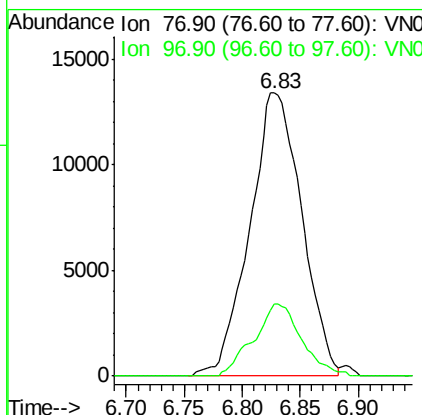
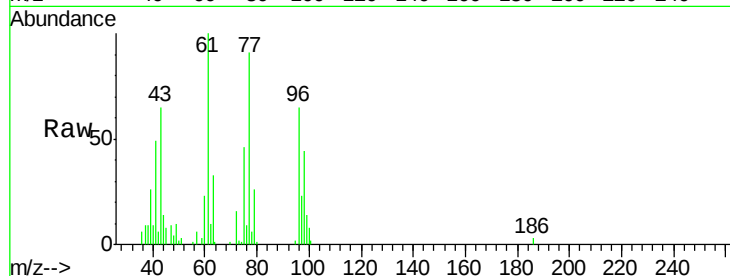
#26
 2,2-Dichloropropane
 Concen: 2.06 ug/l
 RT: 6.83 min Scan# 1629
 Delta R.T. 0.00 min
 Lab File: VN049782.D
 Acq: 12 Jul 2018 21:02

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

Tot Ion	Ratio	Lower	Upper
77	100		
97	23.4	11.9	35.5

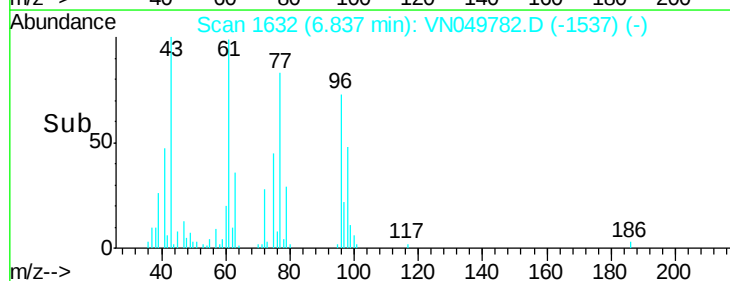
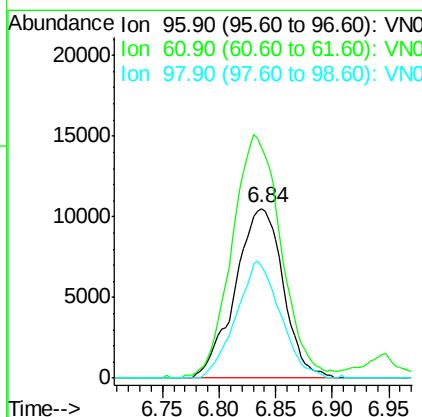
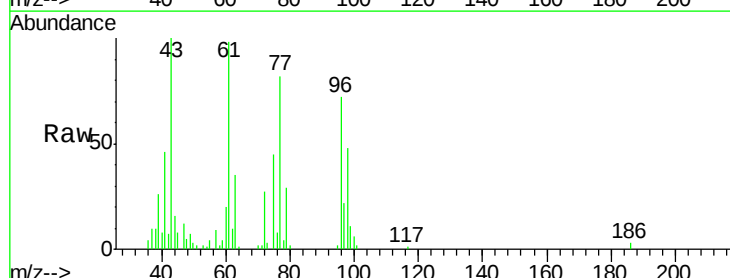
Manual Integrations
 APPROVED

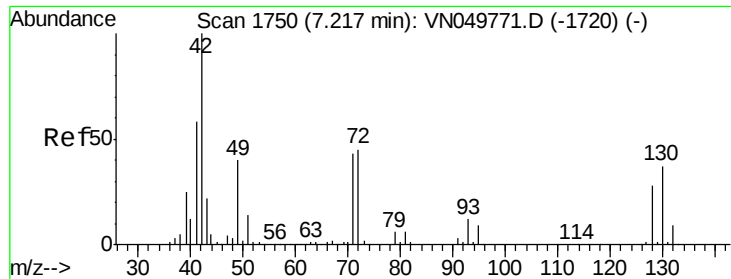
MMDadoda
 7/13/2018 1:35:37 PM



#27
 cis-1,2-Dichloroethene
 Concen: 2.14 ug/l
 RT: 6.84 min Scan# 1632
 Delta R.T. 0.01 min
 Lab File: VN049782.D
 Acq: 12 Jul 2018 21:02

Tgt Ion	Ratio	Lower	Upper
96	100		
61	146.7	0.0	289.0
98	63.5	0.0	130.2





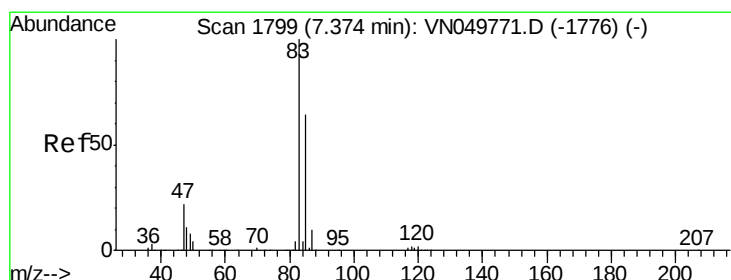
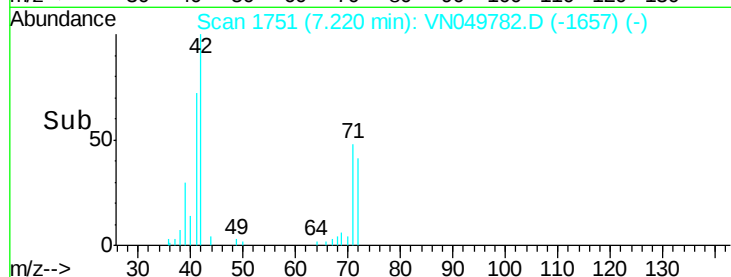
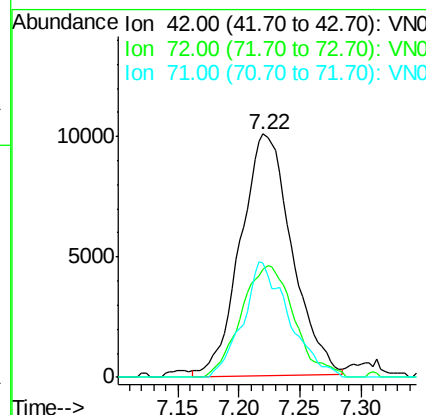
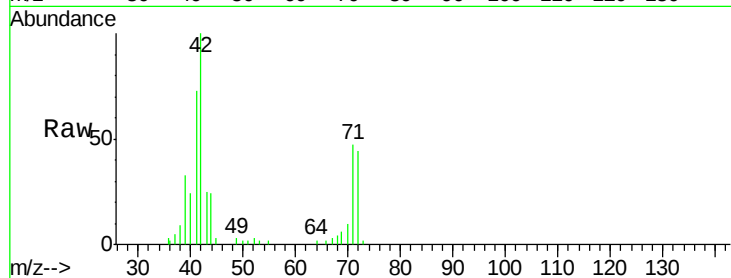
#29
Tetrahydrofuran
Concen: 9.58 ug/l
RT: 7.22 min Scan# 1751
Delta R.T. 0.00 min
Lab File: VN049782.D
Acq: 12 Jul 2018 21:02

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

Tot Ion	Ratio	Lower	Upper
42	100		
72	47.7	35.6	53.4
71	42.9	34.0	51.0

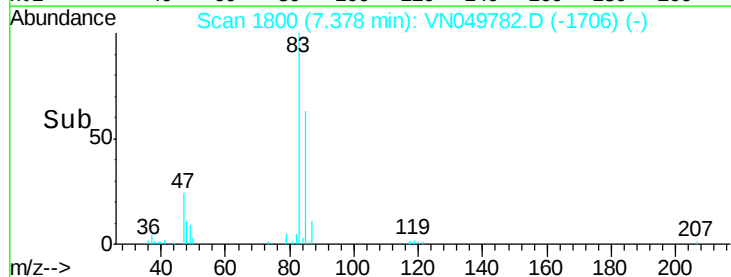
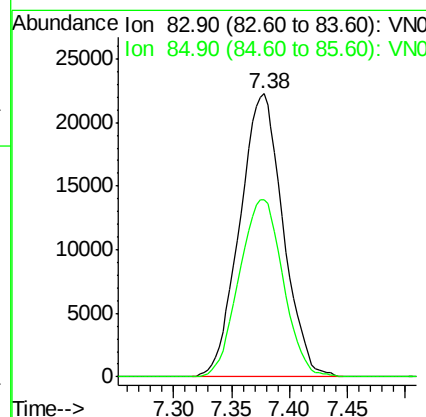
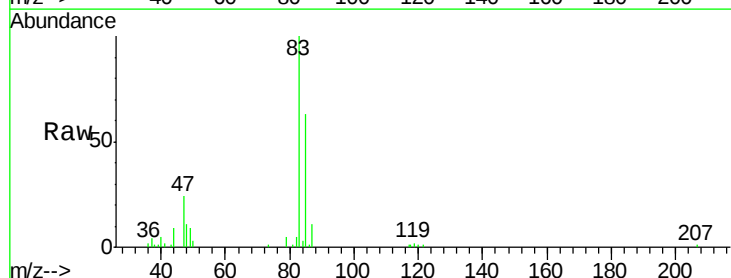
Manual Integrations
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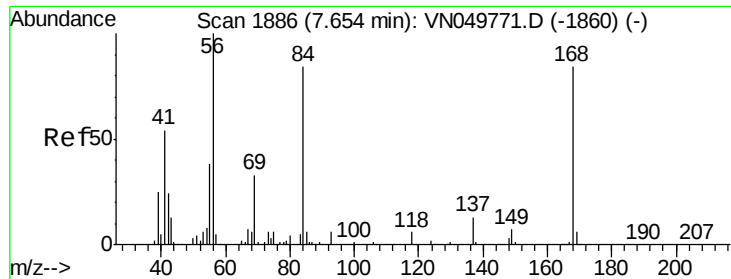
MMDadoda
7/13/2018 1:35:37 PM



#30
Chloroform
Concen: 2.29 ug/l
RT: 7.38 min Scan# 1800
Delta R.T. 0.00 min
Lab File: VN049782.D
Acq: 12 Jul 2018 21:02

Tgt Ion	Ratio	Lower	Upper
83	100		
85	62.5	51.4	77.2





#31

Cyclohexane

Concen: 2.68 ug/l

RT: 7.66 min Scan# 1888

Delta R.T. 0.01 min

Lab File: VN049782.D

Acq: 12 Jul 2018 21:02

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT3-2018

Tot Ion: 56 Resp: 56838

Ion Ratio Lower Upper

56 100

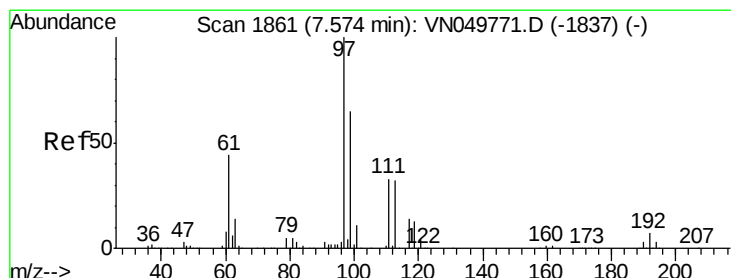
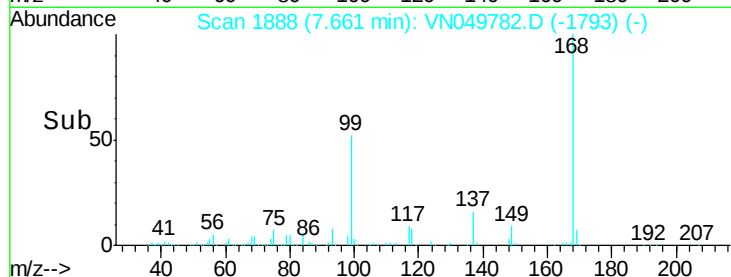
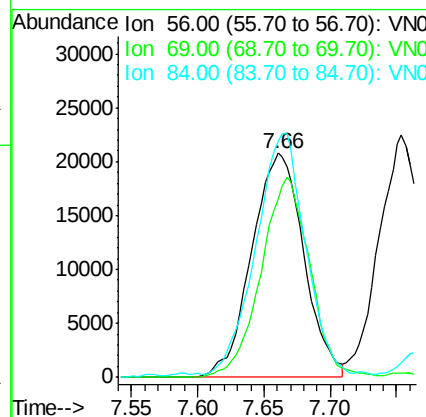
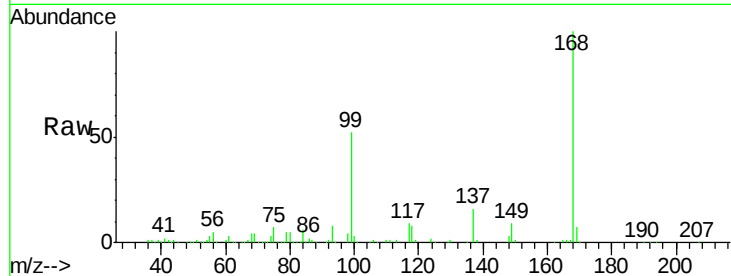
69 79.6 26.6 40.0#

84 104.5 69.0 103.6#

Manual Integrations
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7/13/2018 1:35:37 PM



#32

1,1,1-Trichloroethane

Concen: 2.25 ug/l

RT: 7.57 min Scan# 1860

Delta R.T. -0.00 min

Lab File: VN049782.D

Acq: 12 Jul 2018 21:02

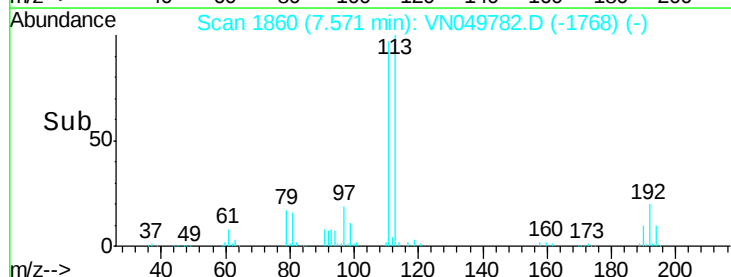
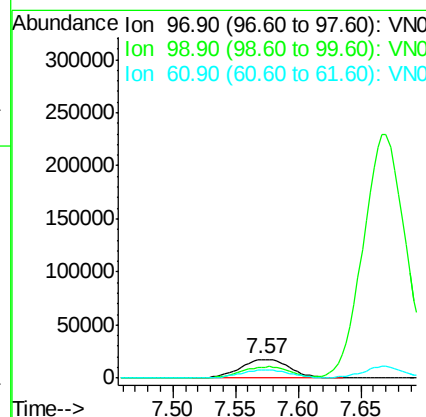
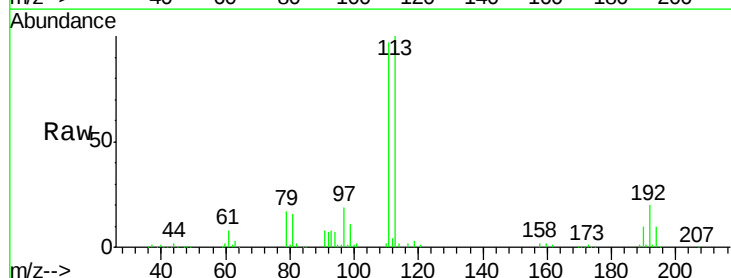
Tgt Ion: 97 Resp: 48167

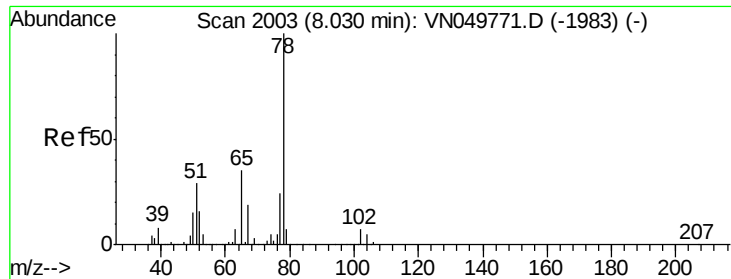
Ion Ratio Lower Upper

97 100

99 59.3 51.0 76.4

61 43.9 35.5 53.3





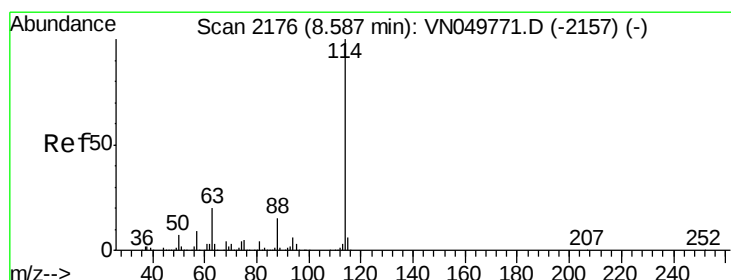
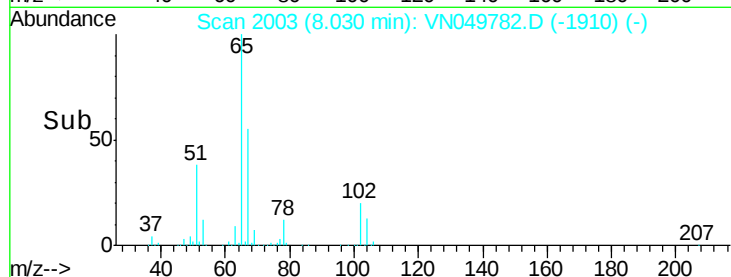
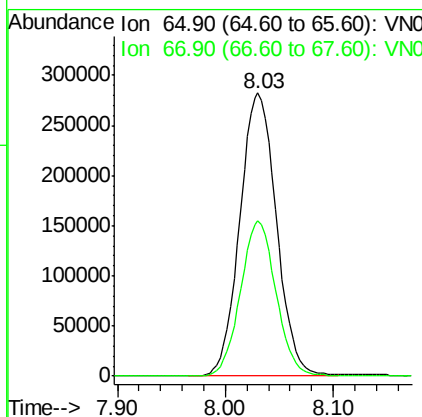
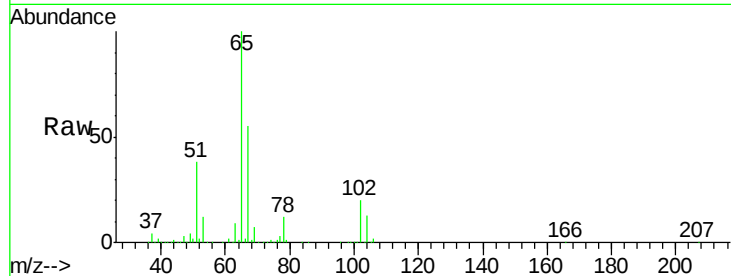
#33
 1,2-Dichloroethane-d4
 Concen: 53.41 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN049782.D
 Acq: 12 Jul 2018 21:02

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

Tot Ion	Ratio	Resp	Lower	Upper
65	100	667529		
67	53.3	0.0	107.2	

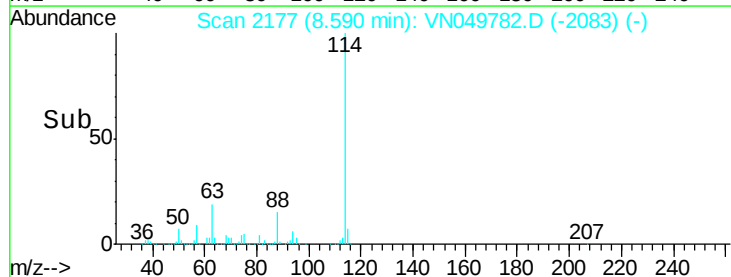
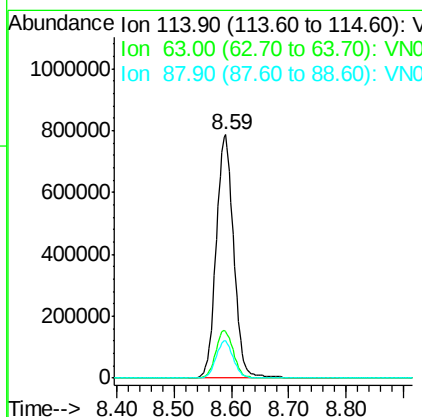
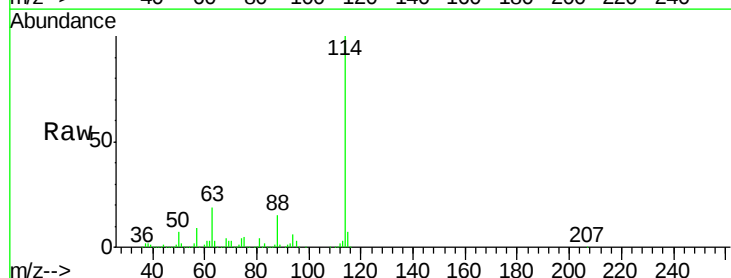
Manual Integrations
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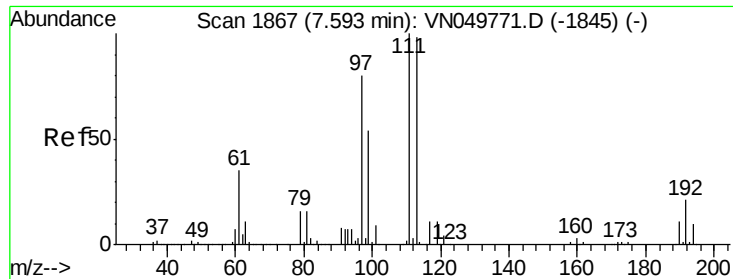
MMDadoda
 7/13/2018 1:35:37 PM



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN049782.D
 Acq: 12 Jul 2018 21:02

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	1668852		
63	19.3	0.0	39.8	
88	15.3	0.0	30.6	





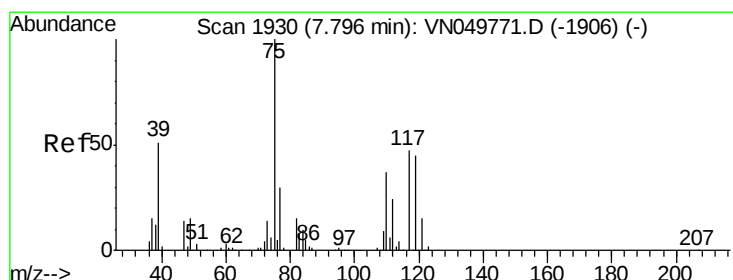
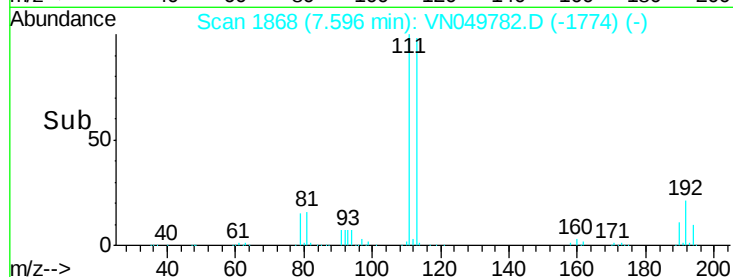
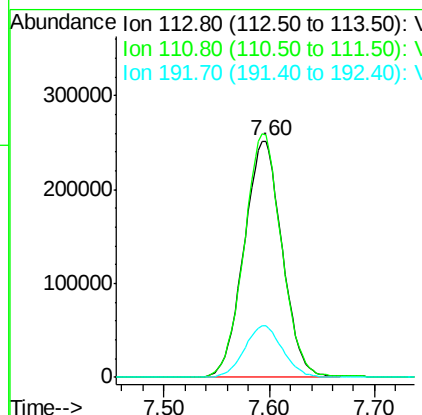
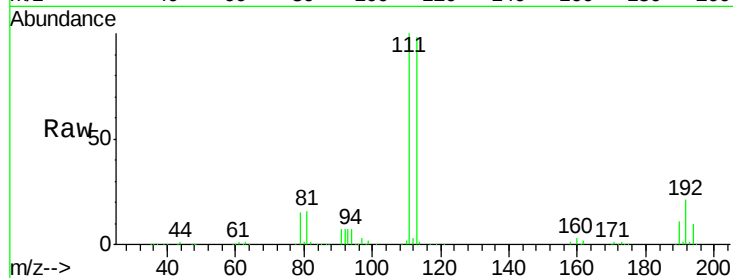
#35
 Dibromofluoromethane
 Concen: 50.36 ug/l
 RT: 7.60 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN049782.D
 Acq: 12 Jul 2018 21:02

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

Tot Ion	Ratio	Resp	Lower	Upper
113	100	633522		
111	101.8	81.8	122.8	
192	21.7	17.8	26.6	

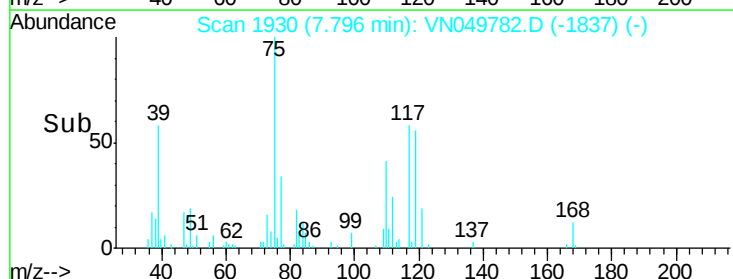
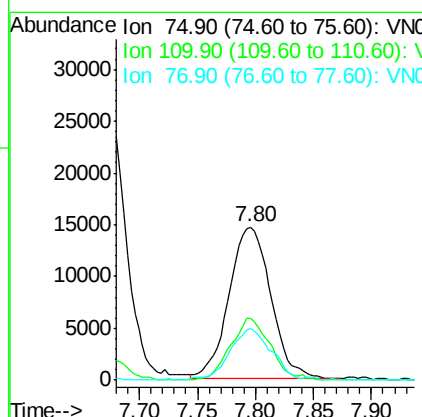
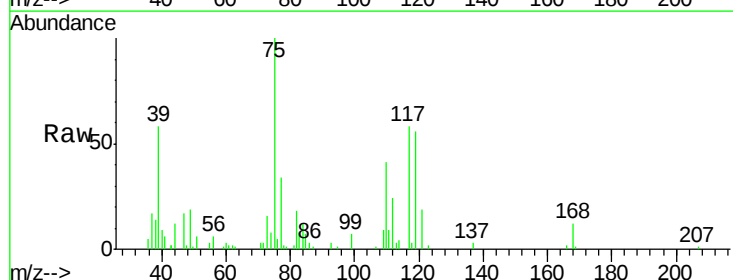
Manual Integrations
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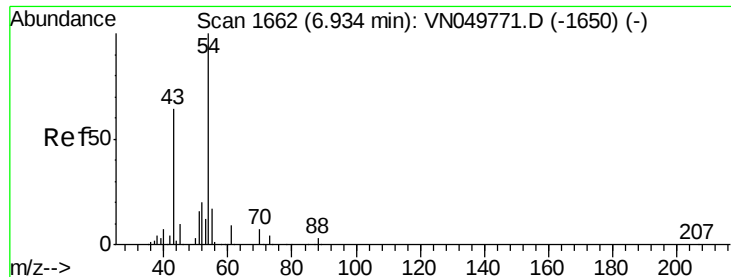
MMDadoda
 7/13/2018 1:35:37 PM



#36
 1,1-Dichloropropene
 Concen: 1.91 ug/l
 RT: 7.80 min Scan# 1930
 Delta R.T. 0.00 min
 Lab File: VN049782.D
 Acq: 12 Jul 2018 21:02

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	36696		
110	38.6	18.1	54.4	
77	33.4	24.9	37.3	





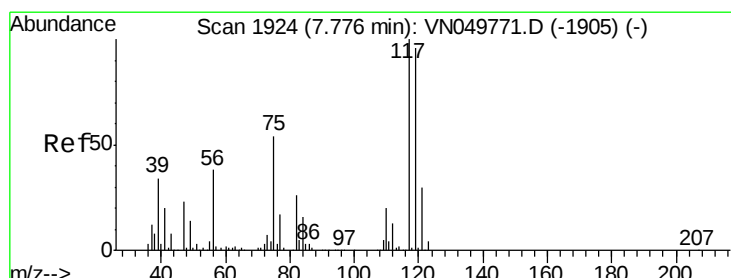
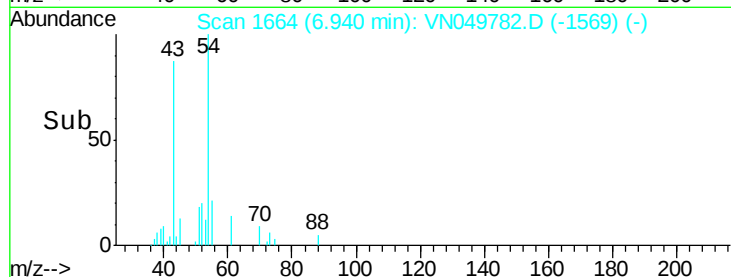
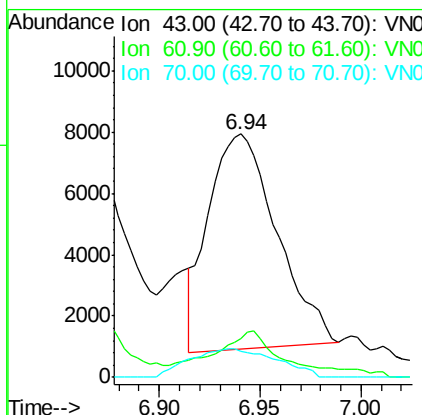
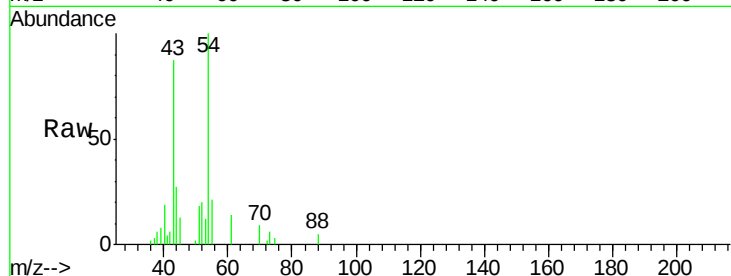
#37
Ethyl Acetate
Concen: 1.45 ug/l
RT: 6.94 min Scan# 1664
Delta R.T. 0.01 min
Lab File: VN049782.D
Acq: 12 Jul 2018 21:02

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

Tot Ion	Ratio	Lower	Upper
43	100		
61	23.6	11.7	17.5#
70	16.9	8.4	12.6#

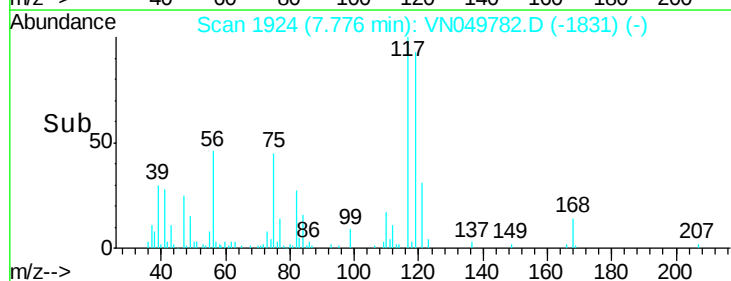
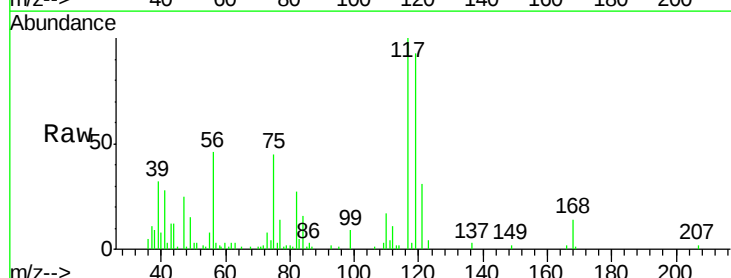
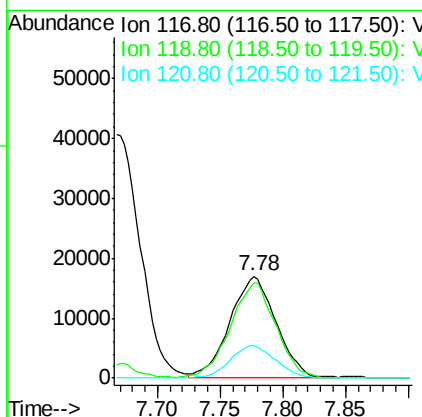
Manual Integrations
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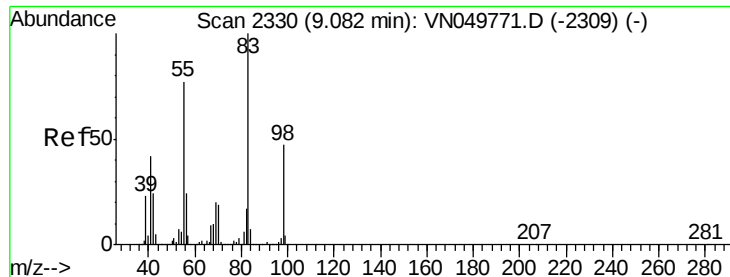
MMDadoda
7/13/2018 1:35:37 PM



#38
Carbon Tetrachloride
Concen: 2.12 ug/l
RT: 7.78 min Scan# 1924
Delta R.T. 0.00 min
Lab File: VN049782.D
Acq: 12 Jul 2018 21:02

Tgt Ion	Ratio	Lower	Upper
117	100		
119	94.3	77.2	115.8
121	31.5	25.0	37.6





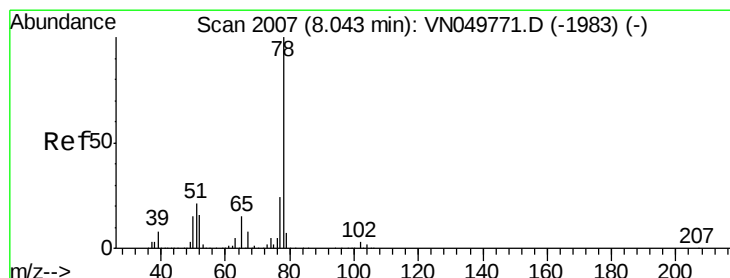
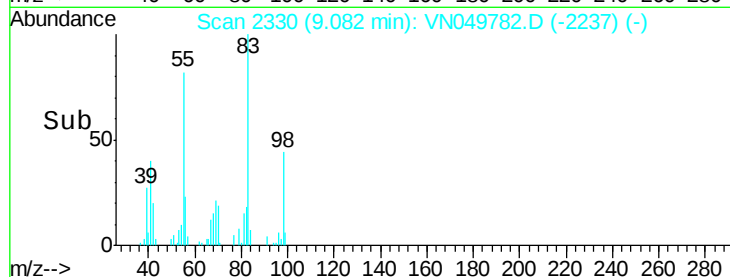
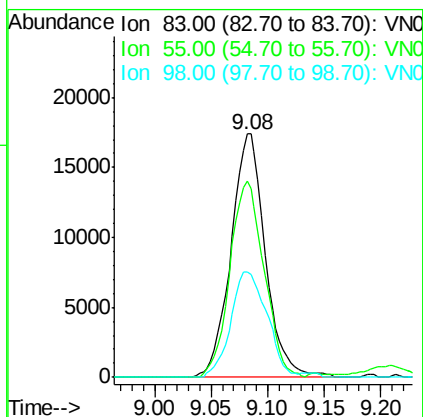
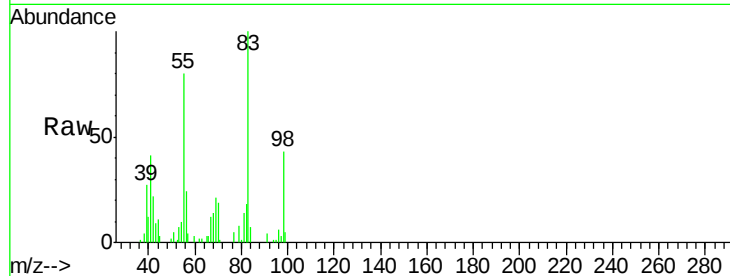
#39
Methylcyclohexane
Concen: 1.82 ug/l
RT: 9.08 min Scan# 2330
Delta R.T. 0.00 min
Lab File: VN049782.D
Acq: 12 Jul 2018 21:02

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

Tot Ion	Ratio	Lower	Upper
83	100		
55	80.4	59.7	89.5
98	43.5	36.5	54.7

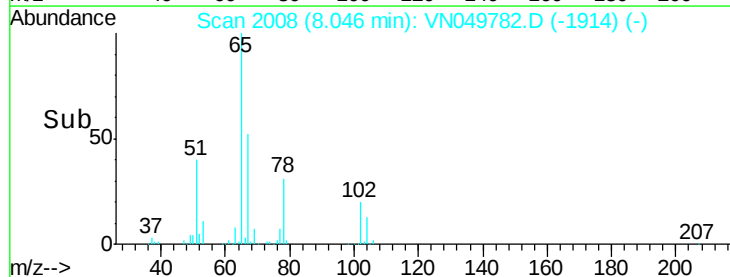
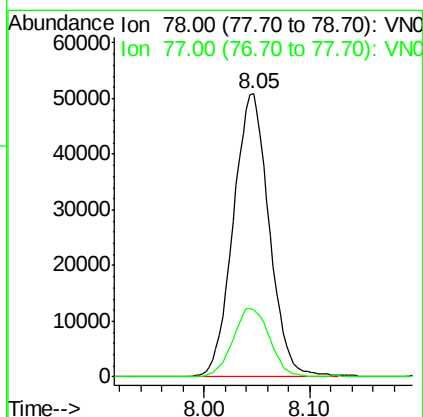
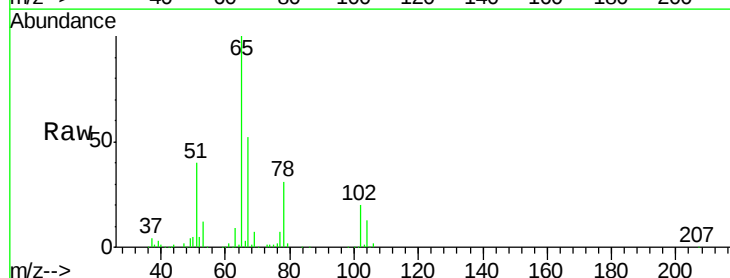
Manual Integrations
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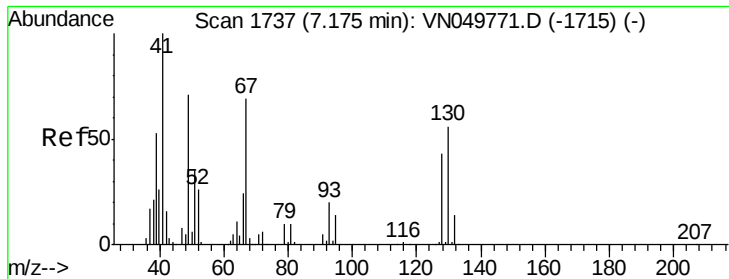
MMDadoda
7/13/2018 1:35:37 PM



#40
Benzene
Concen: 2.09 ug/l
RT: 8.05 min Scan# 2008
Delta R.T. 0.00 min
Lab File: VN049782.D
Acq: 12 Jul 2018 21:02

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.8	19.0	28.4





#41

Methacrylonitrile

Concen: 2.12 ug/l

RT: 7.18 min Scan# 1738

Delta R.T. 0.00 min

Lab File: VN049782.D

Acq: 12 Jul 2018 21:02

Instrument :

MSVOA_N

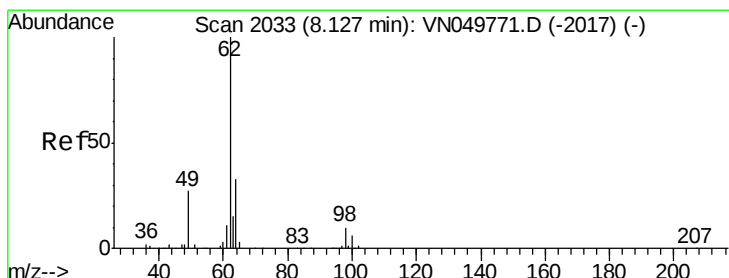
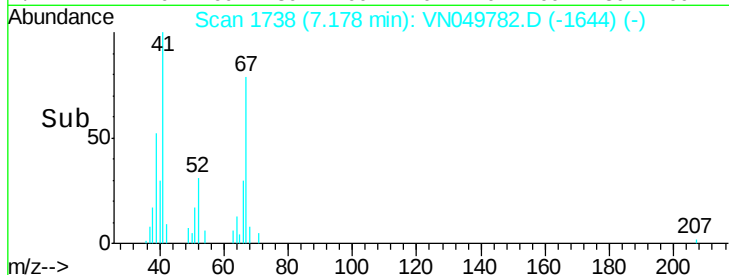
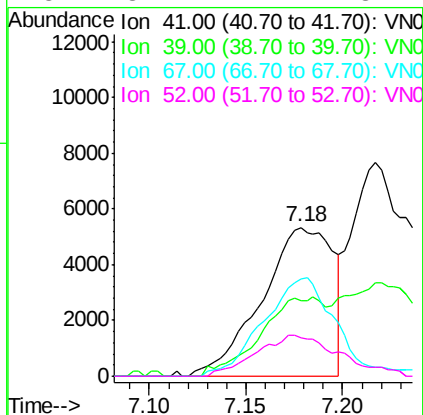
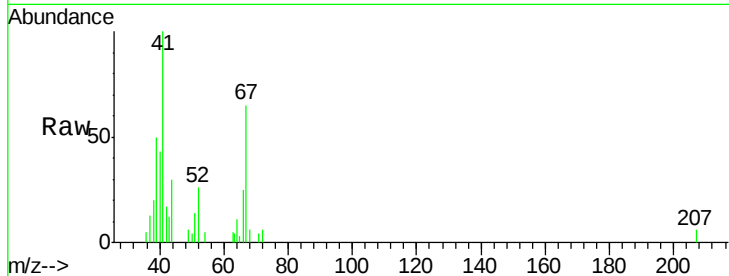
ClientSampleId :

LOQ-WATER-02-QT3-2018

Tot Ion:	41	Resp:	13643
Ion Ratio	Lower	Upper	
41	100		
39	31.7	45.4	68.2#
67	67.4	65.4	98.0
52	32.7	24.7	37.1

Manual Integrations
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7/13/2018 1:35:37 PM



#42

1,2-Dichloroethane

Concen: 2.20 ug/l

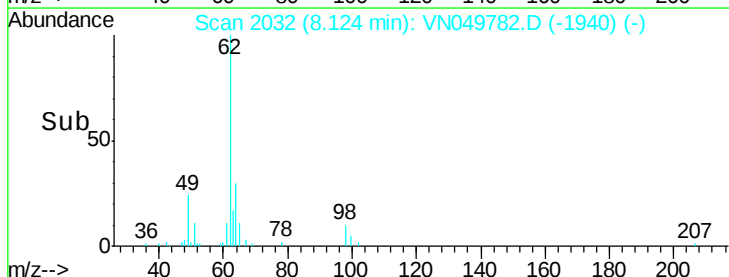
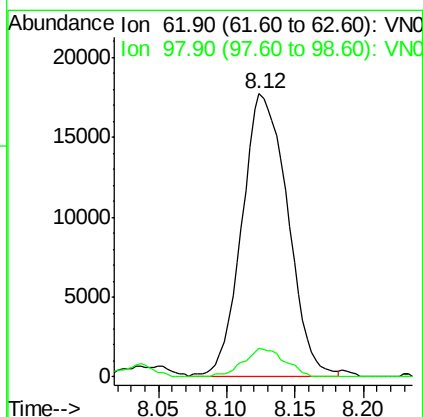
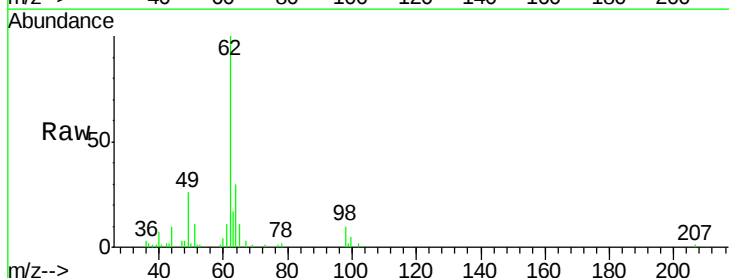
RT: 8.12 min Scan# 2032

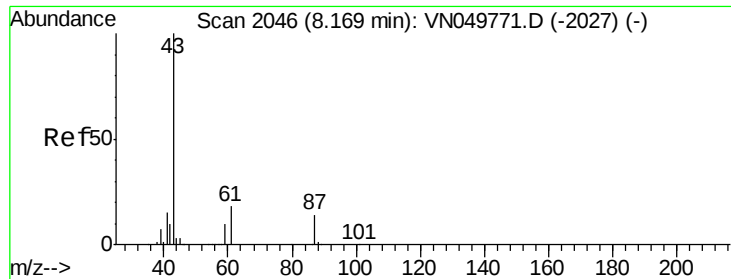
Delta R.T. -0.00 min

Lab File: VN049782.D

Acq: 12 Jul 2018 21:02

Tgt Ion:	62	Resp:	41360
Ion Ratio	Lower	Upper	
62	100		
98	9.0	0.0	19.0





#43

Isopropyl Acetate

Concen: 1.91 ug/l

RT: 8.17 min Scan# 2046

Delta R.T. 0.00 min

Lab File: VN049782.D

Acq: 12 Jul 2018 21:02

Instrument :

MSVOA_N

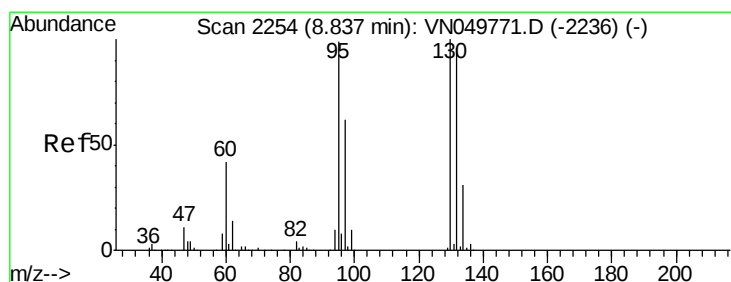
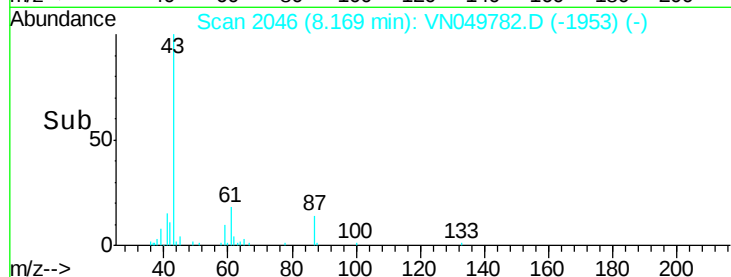
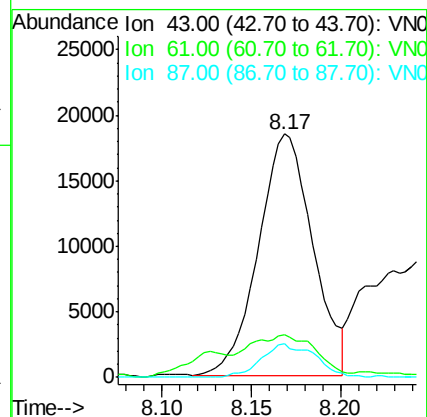
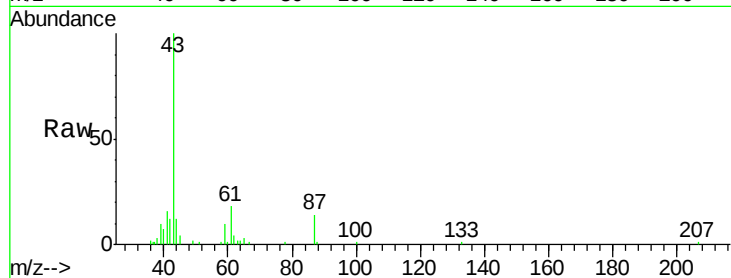
ClientSampleId :

LOQ-WATER-02-QT3-2018

Tot Ion:	43	Resp:	39155
Ion	Ratio	Lower	Upper
43	100		
61	20.1	14.9	22.3
87	13.9	10.0	15.0

Manual Integrations
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MMDadoda
7/13/2018 1:35:37 PM



#44

Trichloroethene

Concen: 2.11 ug/l

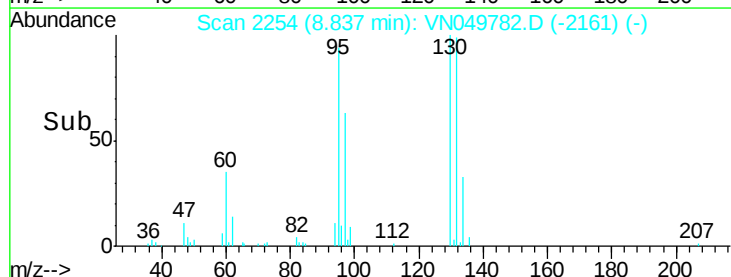
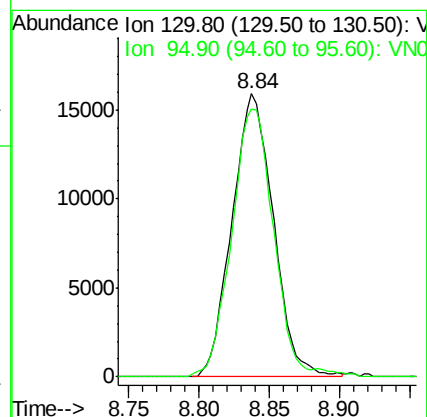
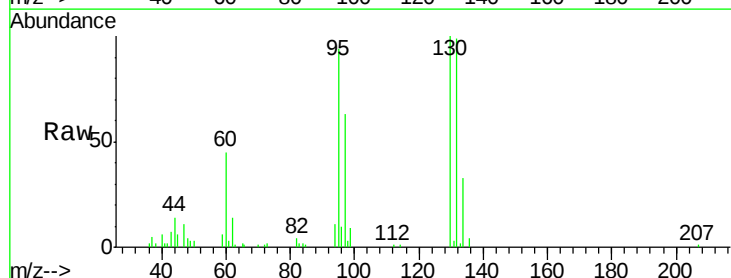
RT: 8.84 min Scan# 2254

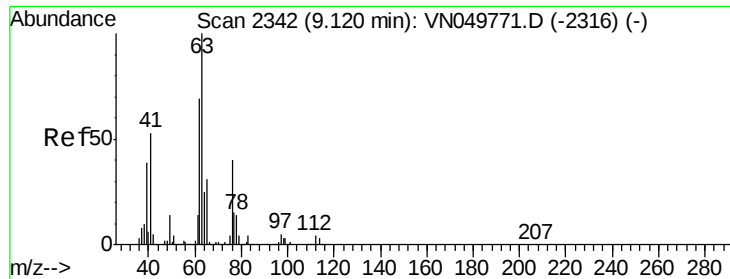
Delta R.T. 0.00 min

Lab File: VN049782.D

Acq: 12 Jul 2018 21:02

Tgt Ion:	130	Resp:	32718
Ion	Ratio	Lower	Upper
130	100		
95	93.5	0.0	192.8





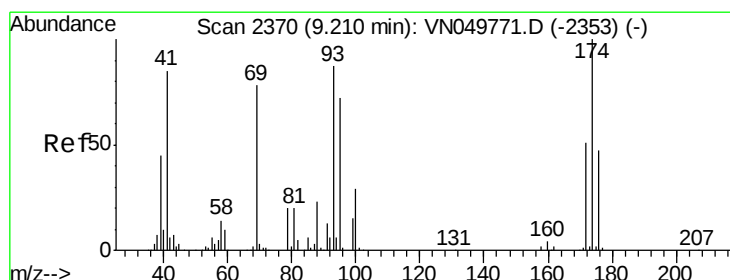
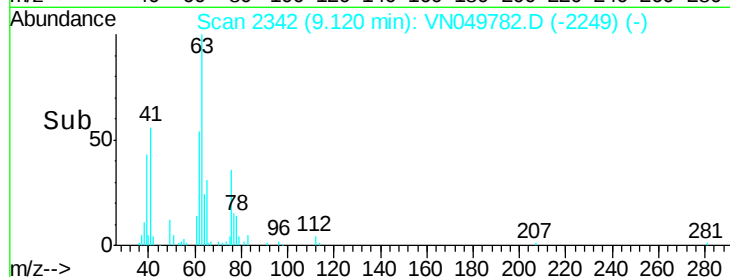
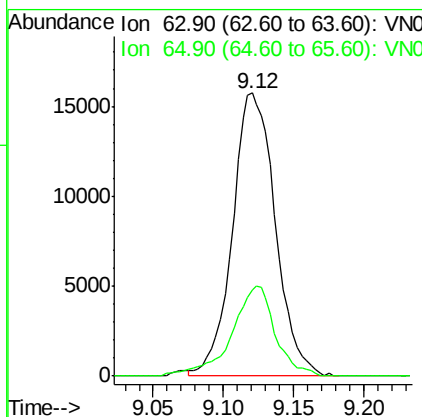
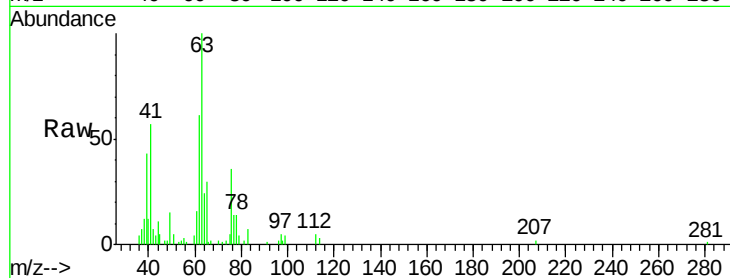
#45
 1,2-Dichloropropane
 Concen: 2.16 ug/l
 RT: 9.12 min Scan# 2342
 Delta R.T. 0.00 min
 Lab File: VN049782.D
 Acq: 12 Jul 2018 21:02

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

Tot Ion	63	Resp	33444
Ion Ratio	Lower	Upper	
63	100		
65	30.4	24.7	37.1

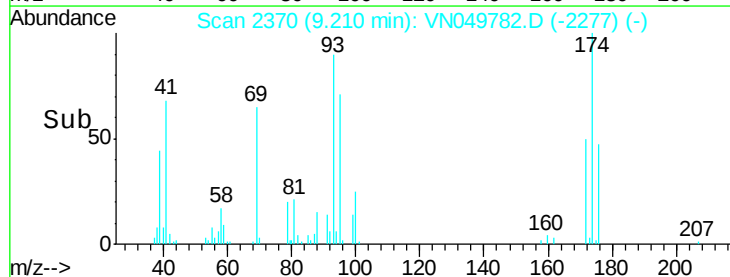
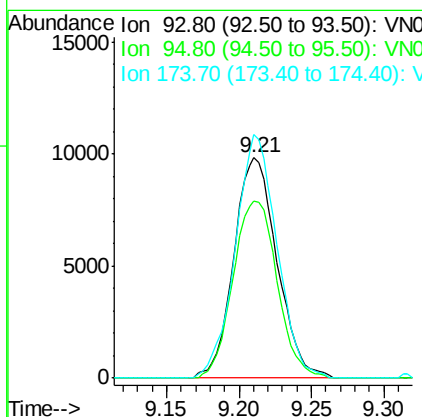
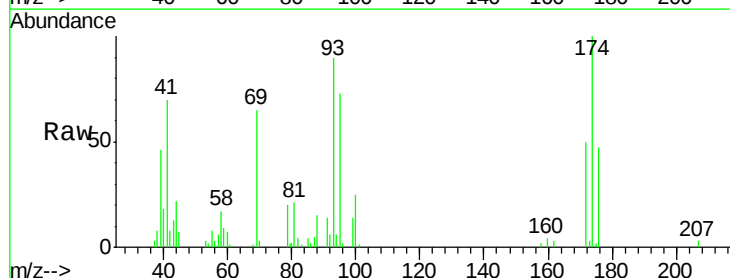
Manual Integrations
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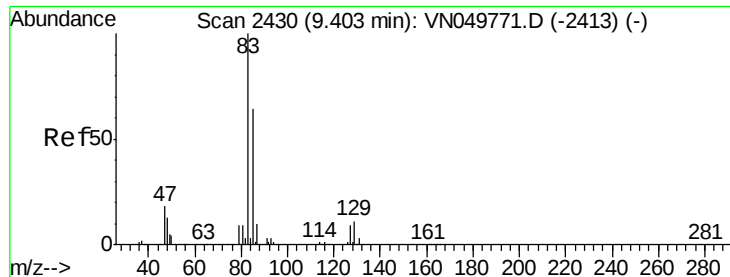
MMDadoda
 7/13/2018 1:35:37 PM



#46
 Dibromomethane
 Concen: 2.22 ug/l
 RT: 9.21 min Scan# 2370
 Delta R.T. 0.00 min
 Lab File: VN049782.D
 Acq: 12 Jul 2018 21:02

Tgt Ion	93	Resp	20375
Ion Ratio	Lower	Upper	
93	100		
95	81.9	67.9	101.9
174	106.6	89.4	134.0





#47

Bromodichloromethane

Concen: 2.00 ug/l

RT: 9.41 min Scan# 2431

Delta R.T. 0.00 min

Lab File: VN049782.D

Acq: 12 Jul 2018 21:02

Instrument :

MSVOA_N

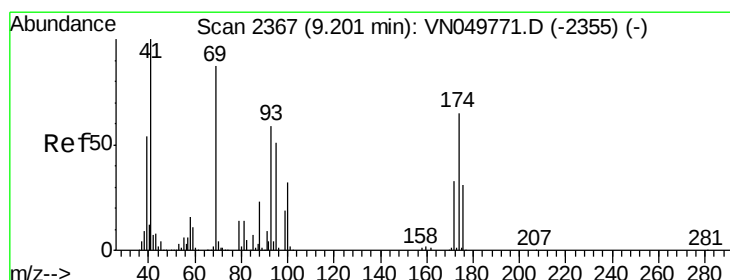
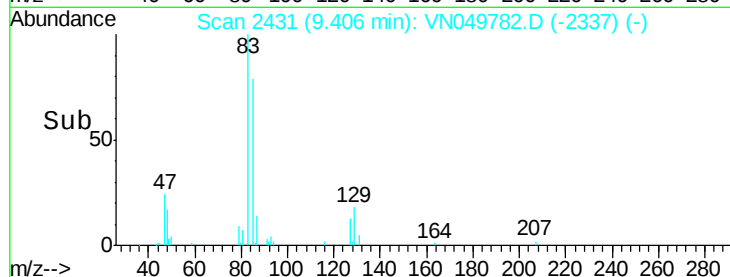
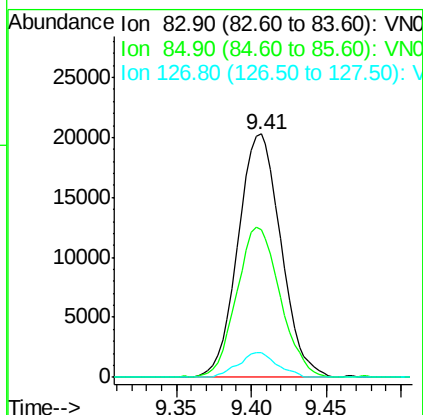
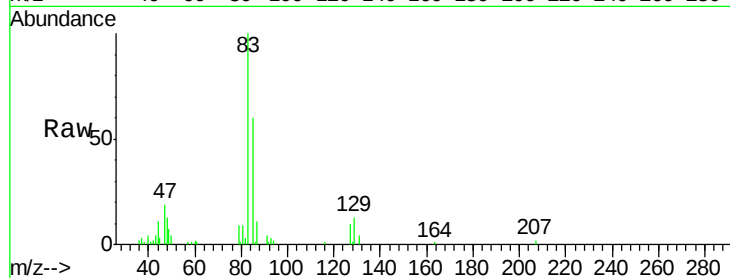
ClientSampleId :

LOQ-WATER-02-QT3-2018

Tot Ion:	83	Resp:	40525
Ion Ratio	Lower	Upper	
83	100		
85	60.4	50.5	75.7
127	9.9	6.8	10.2

Manual Integrations
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MMDadoda
7/13/2018 1:35:37 PM



#48

Methyl methacrylate

Concen: 1.71 ug/l

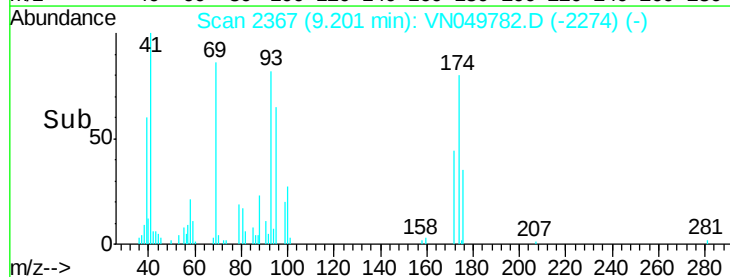
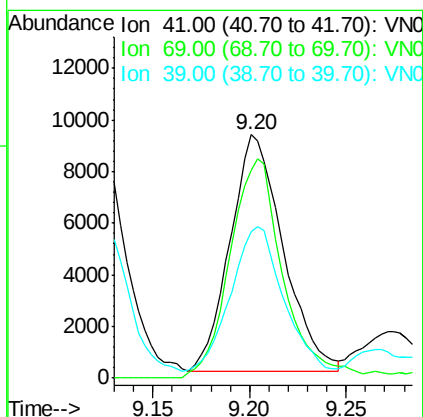
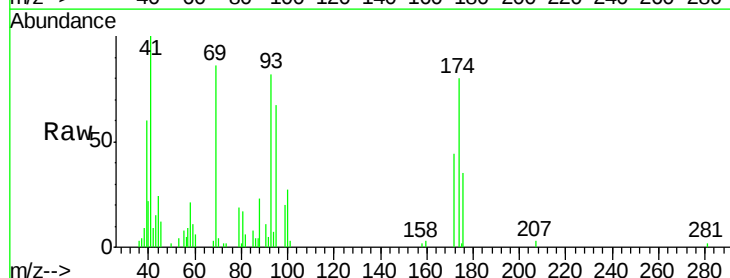
RT: 9.20 min Scan# 2367

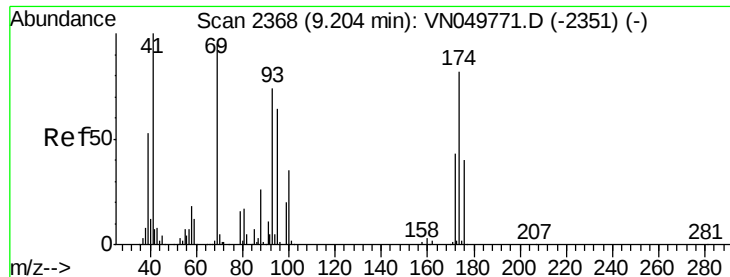
Delta R.T. 0.00 min

Lab File: VN049782.D

Acq: 12 Jul 2018 21:02

Tgt Ion:	41	Resp:	17488
Ion Ratio	Lower	Upper	
41	100		
69	92.5	71.5	107.3
39	67.2	44.7	67.1#





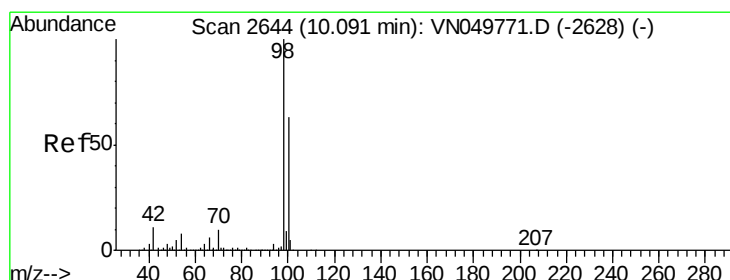
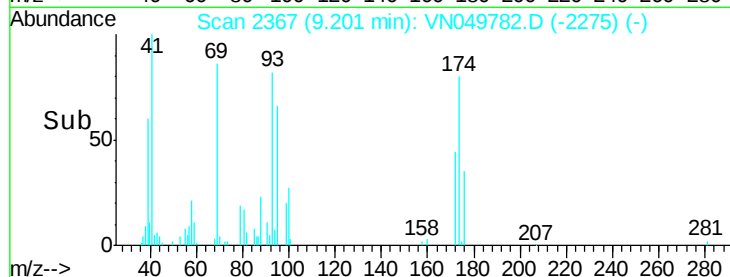
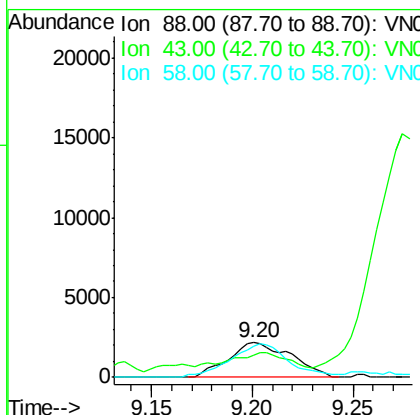
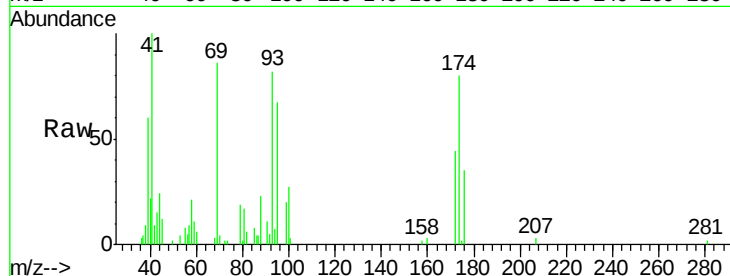
#49
1,4-Dioxane
Concen: 35.06 ug/l
RT: 9.20 min Scan# 2367
Delta R.T. -0.00 min
Lab File: VN049782.D
Acq: 12 Jul 2018 21:02

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

Tot Ion	88	Resp	4699
Ion Ratio	Lower	Upper	
88	100		
43	42.1	25.1	37.7#
58	90.5	52.5	78.7#

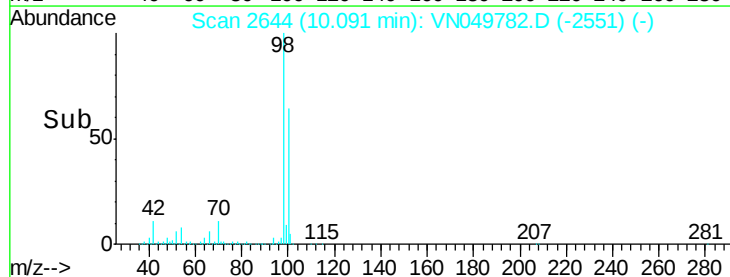
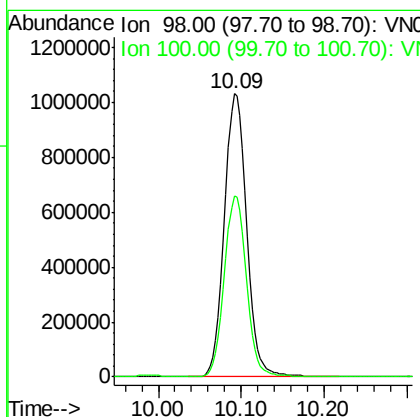
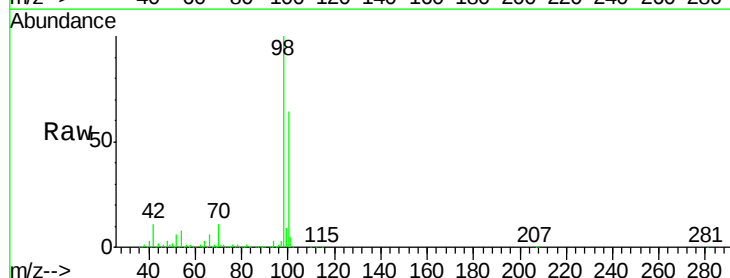
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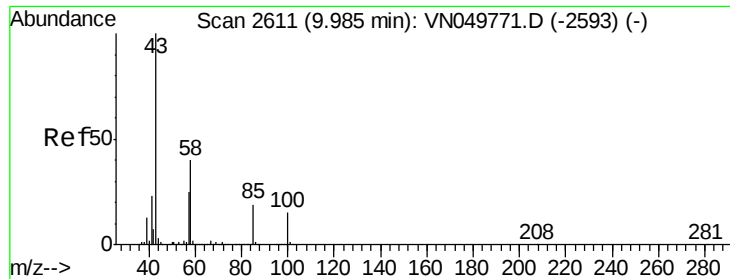
MMDadoda
7/13/2018 1:35:37 PM



#50
Toluene-d8
Concen: 44.88 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. 0.00 min
Lab File: VN049782.D
Acq: 12 Jul 2018 21:02

Tgt Ion	98	Resp	1932494
Ion Ratio	Lower	Upper	
98	100		
100	63.6	51.7	77.5





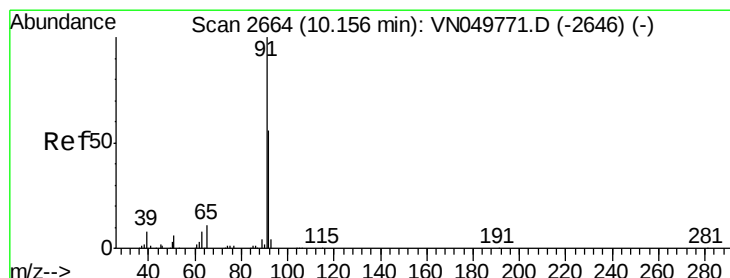
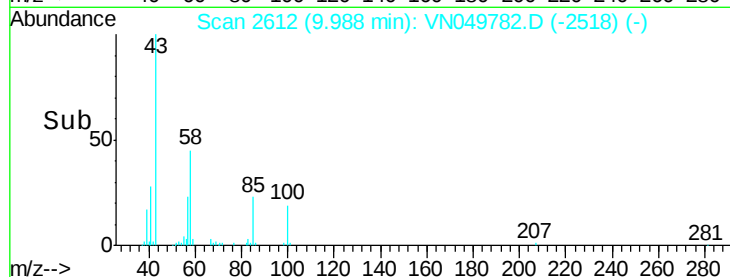
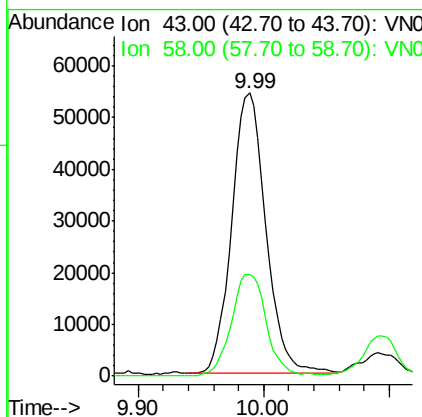
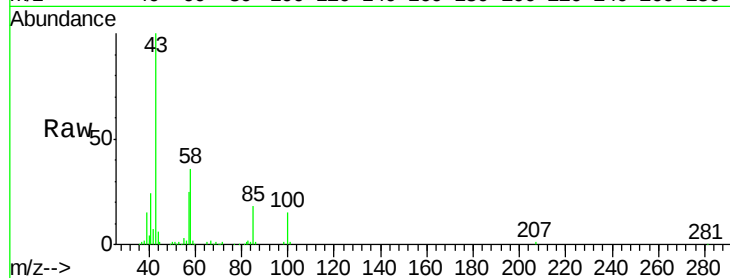
#51
4-Methyl-2-Pentanone
Concen: 9.25 ug/l
RT: 9.99 min Scan# 2612
Delta R.T. 0.00 min
Lab File: VN049782.D
Acq: 12 Jul 2018 21:02

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

Tot Ion	Ratio	Lower	Upper
43	100		
58	37.0	31.8	47.8

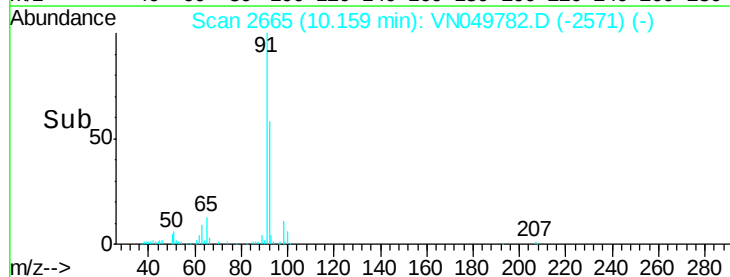
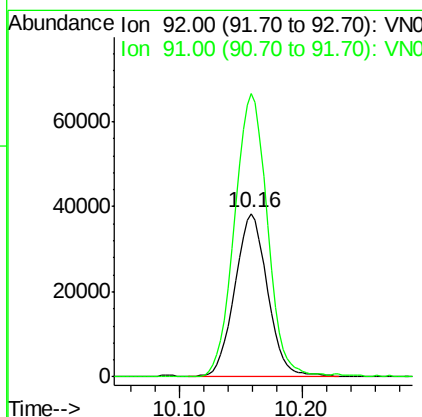
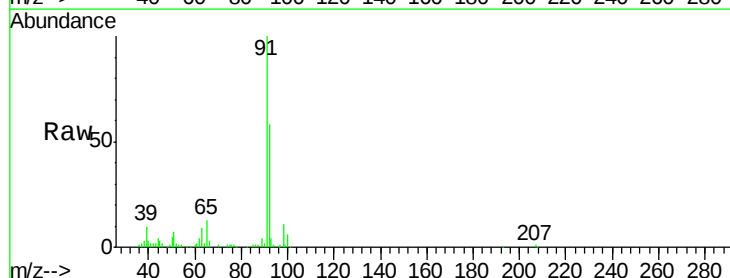
Manual Integrations
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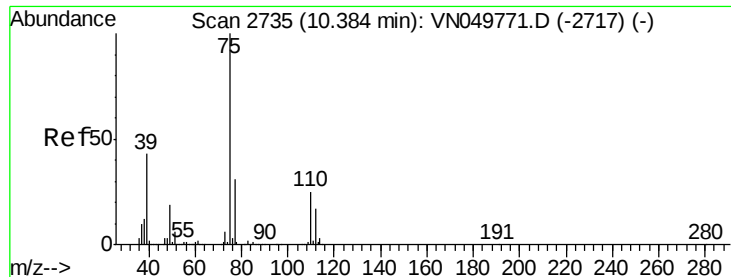
MMDadoda
7/13/2018 1:35:37 PM



#52
Toluene
Concen: 2.08 ug/l
RT: 10.16 min Scan# 2665
Delta R.T. 0.00 min
Lab File: VN049782.D
Acq: 12 Jul 2018 21:02

Tgt Ion	Ratio	Lower	Upper
92	100		
91	173.2	140.1	210.1





#53

t-1,3-Dichloropropene

Concen: 1.78 ug/l

RT: 10.38 min Scan# 2735

Delta R.T. 0.00 min

Lab File: VN049782.D

Acq: 12 Jul 2018 21:02

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT3-2018

Tot Ion: 75 Resp: 34711

Ion Ratio Lower Upper

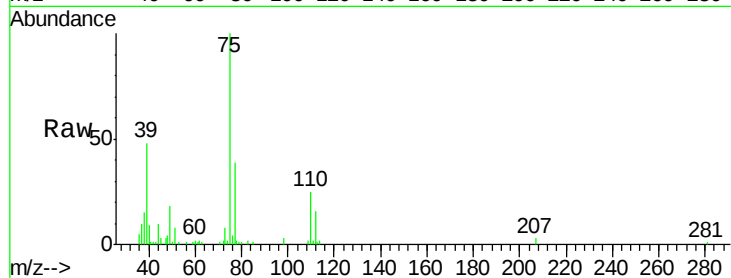
75 100

77 32.4 25.2 37.8

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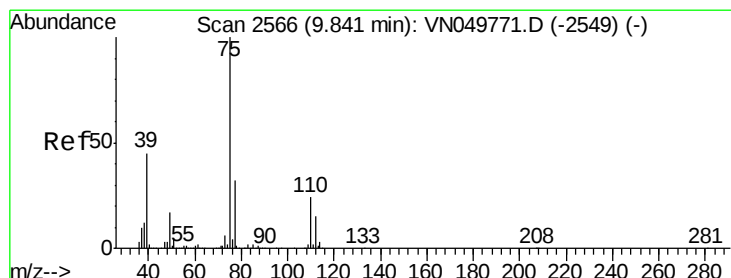
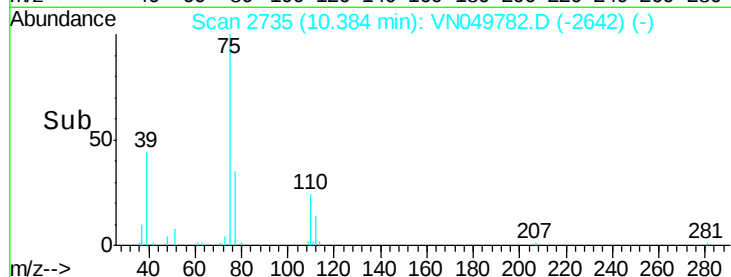
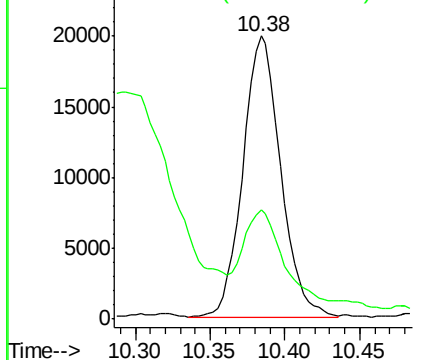
MMDadoda

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Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 76.90 (76.60 to 77.60): VNO



#54

cis-1,3-Dichloropropene

Concen: 1.90 ug/l

RT: 9.84 min Scan# 2566

Delta R.T. 0.00 min

Lab File: VN049782.D

Acq: 12 Jul 2018 21:02

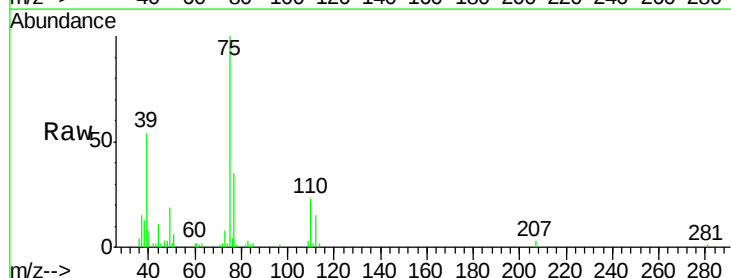
Tgt Ion: 75 Resp: 42109

Ion Ratio Lower Upper

75 100

77 35.0 25.3 37.9

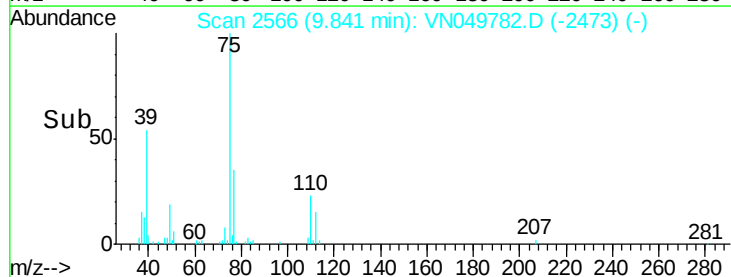
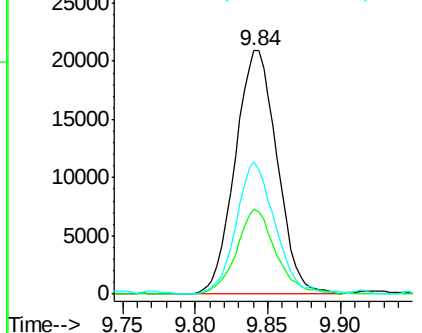
39 54.4 35.5 53.3#

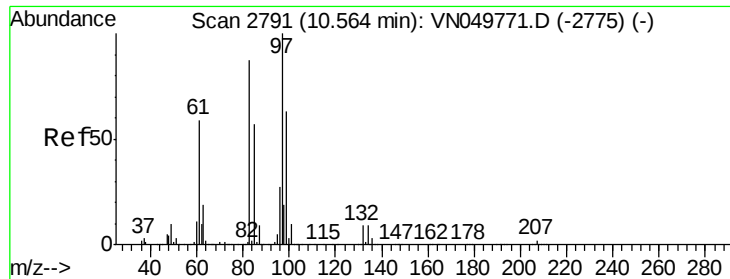


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 76.90 (76.60 to 77.60): VNO

Ion 39.00 (38.70 to 39.70): VNO





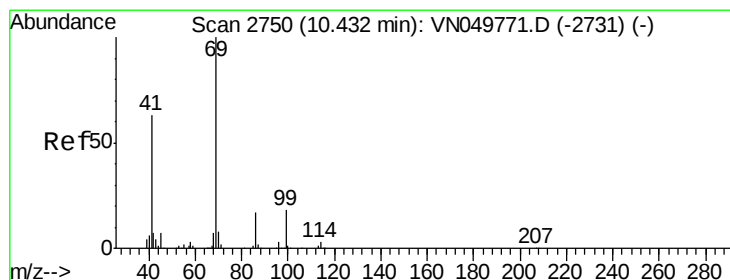
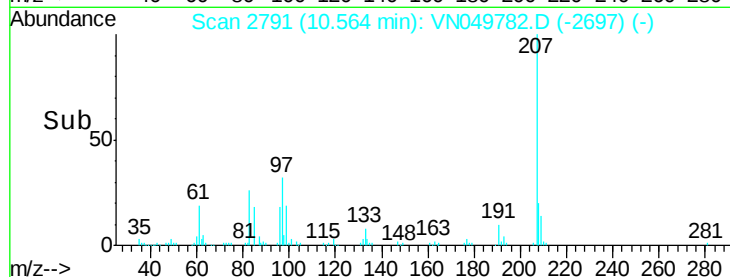
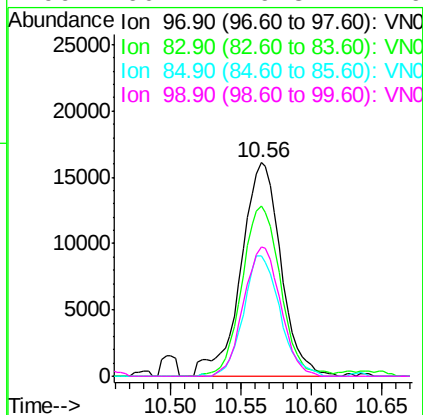
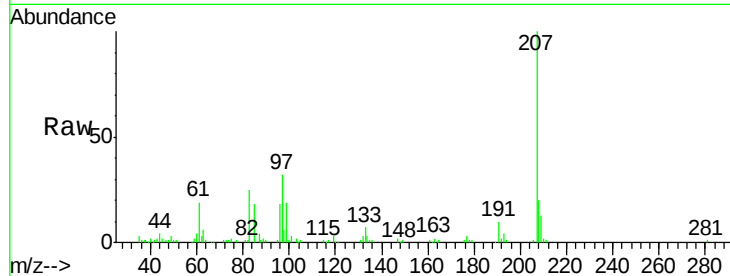
#55
 1,1,2-Trichloroethane
 Concen: 1.80 ug/l
 RT: 10.56 min Scan# 2791
 Delta R.T. 0.00 min
 Lab File: VN049782.D
 Acq: 12 Jul 2018 21:02

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

Tot Ion	97	Resp	32012
Ion	Ratio	Lower	Upper
97	100		
83	79.6	69.0	103.6
85	56.5	44.9	67.3
99	60.7	49.8	74.6

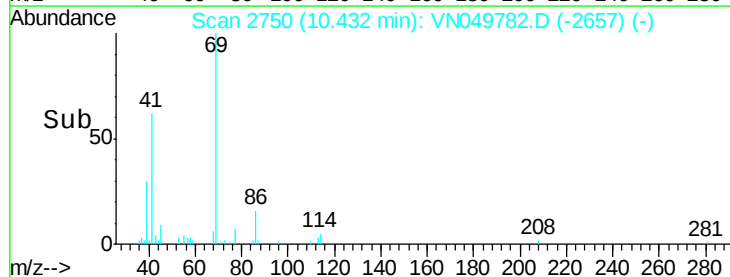
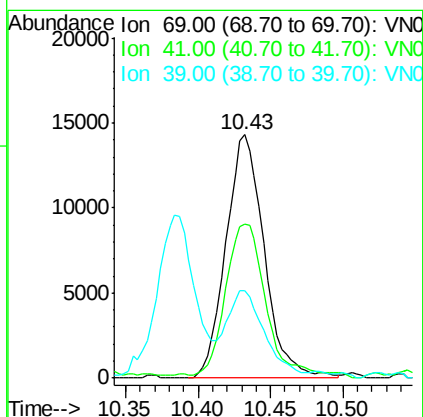
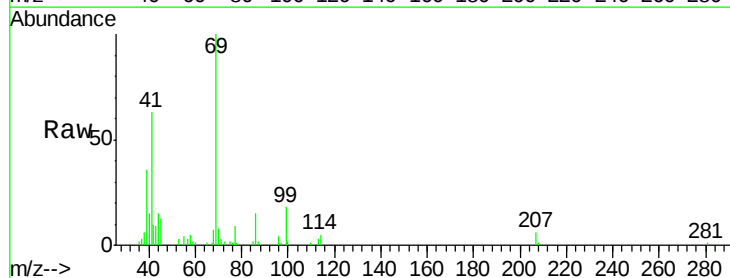
Manual Integrations
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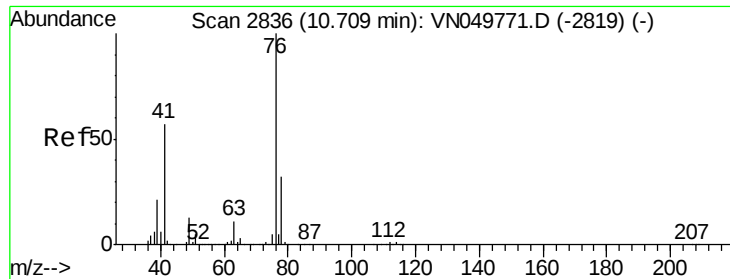
MMDadoda
 7/13/2018 1:35:37 PM



#56
 Ethyl methacrylate
 Concen: 1.69 ug/l
 RT: 10.43 min Scan# 2750
 Delta R.T. 0.00 min
 Lab File: VN049782.D
 Acq: 12 Jul 2018 21:02

Tgt Ion	69	Resp	26223
Ion	Ratio	Lower	Upper
69	100		
41	63.6	51.6	77.4
39	31.8	25.8	38.8





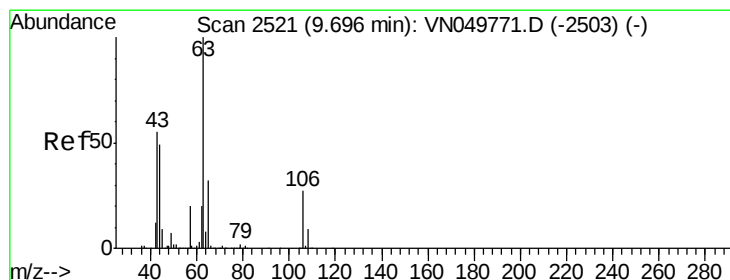
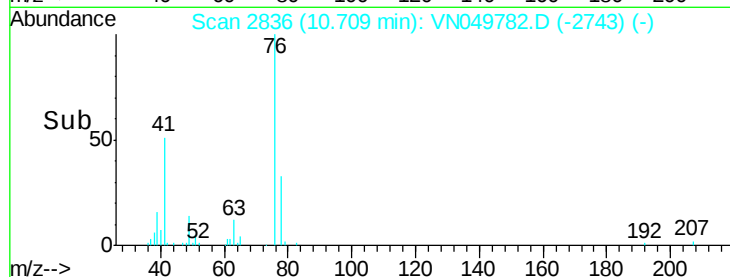
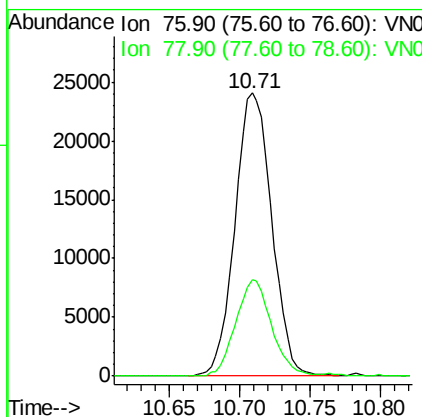
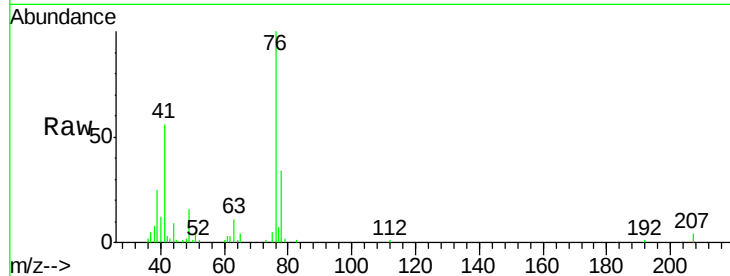
#57
 1,3-Dichloropropane
 Concen: 2.01 ug/l
 RT: 10.71 min Scan# 2836
 Delta R.T. 0.00 min
 Lab File: VN049782.D
 Acq: 12 Jul 2018 21:02

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

Tot Ion	Ratio	Lower	Upper
76	100		
78	33.3	25.8	38.8

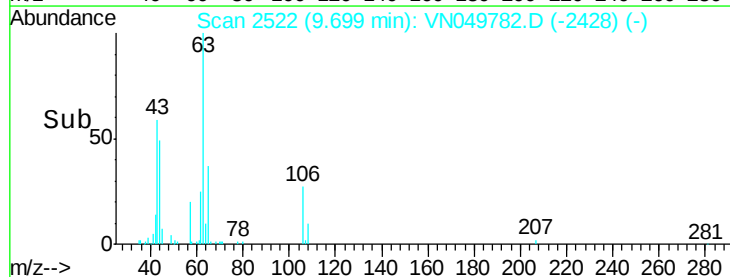
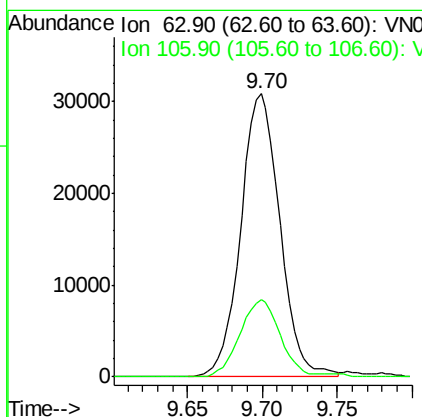
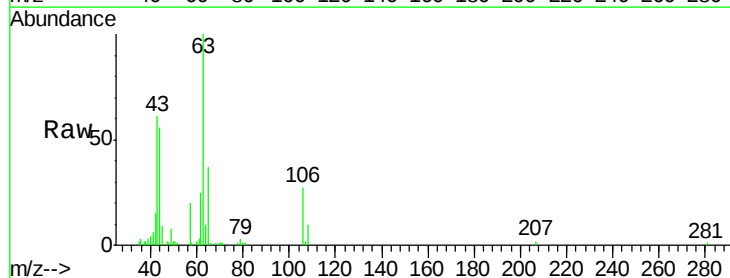
Manual Integrations
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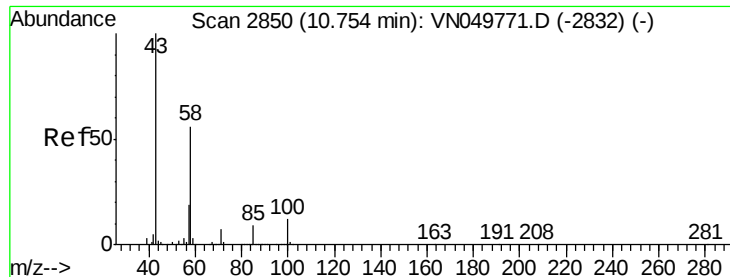
MMDadoda
 7/13/2018 1:35:37 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 7.53 ug/l
 RT: 9.70 min Scan# 2522
 Delta R.T. 0.00 min
 Lab File: VN049782.D
 Acq: 12 Jul 2018 21:02

Tgt Ion	Ratio	Lower	Upper
63	100		
106	28.2	21.8	32.8





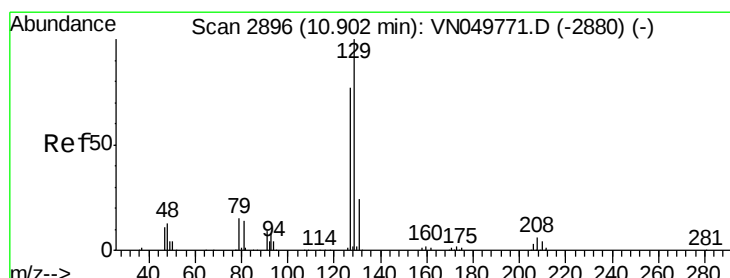
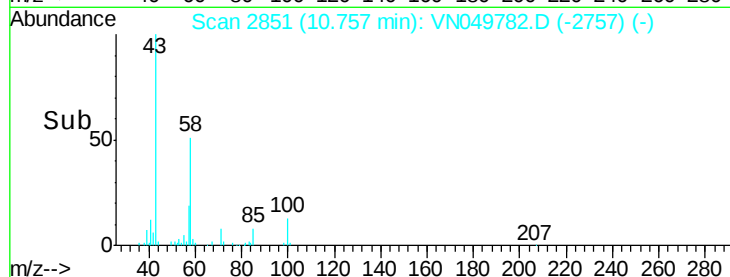
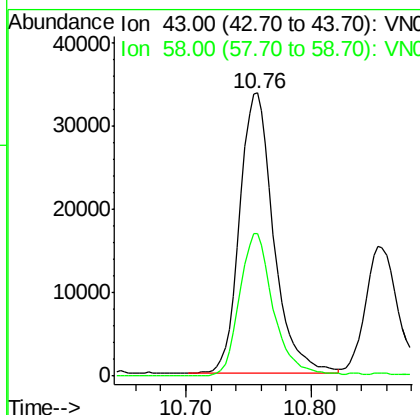
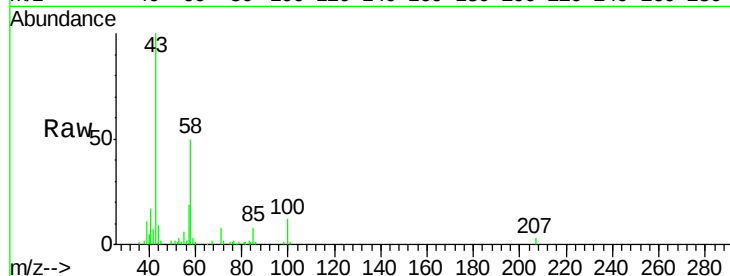
#59
2-Hexanone
Concen: 8.57 ug/l
RT: 10.76 min Scan# 2851
Delta R.T. 0.00 min
Lab File: VN049782.D
Acq: 12 Jul 2018 21:02

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

Tot Ion: 43 Resp: 63262
Ion Ratio Lower Upper
43 100
58 50.9 27.8 83.4

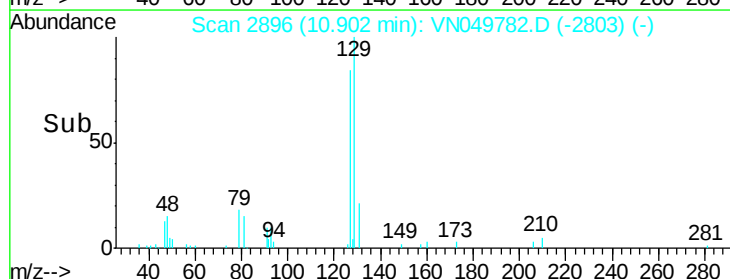
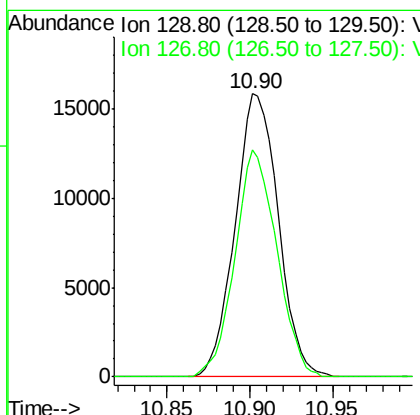
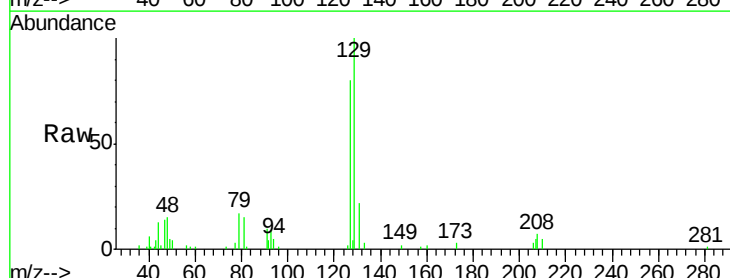
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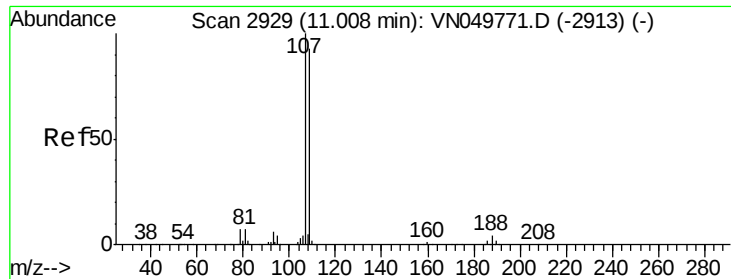
MMDadoda
7/13/2018 1:35:37 PM



#60
Dibromochloromethane
Concen: 1.90 ug/l
RT: 10.90 min Scan# 2896
Delta R.T. 0.00 min
Lab File: VN049782.D
Acq: 12 Jul 2018 21:02

Tgt Ion: 129 Resp: 28720
Ion Ratio Lower Upper
129 100
127 77.6 38.3 114.9





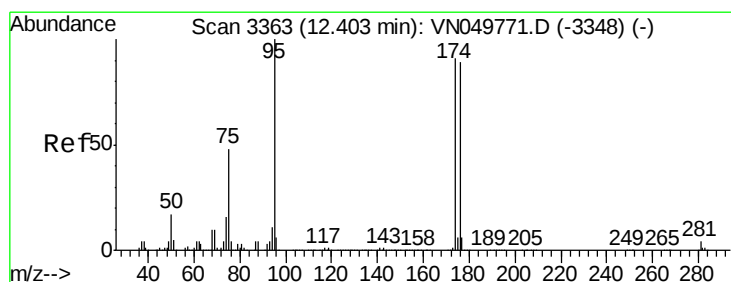
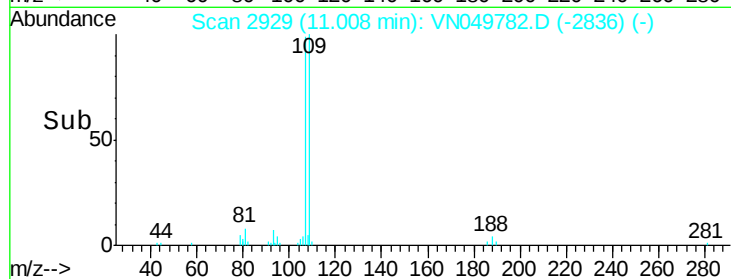
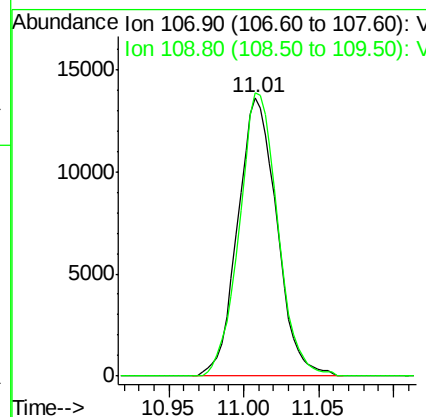
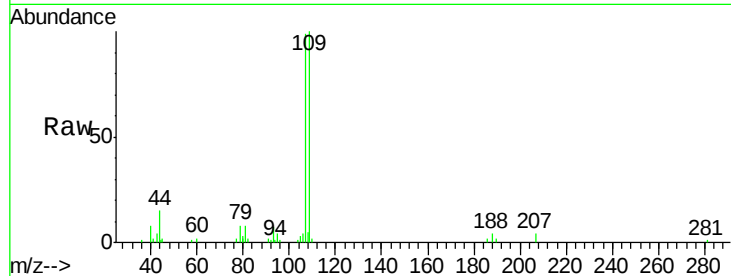
#61
 1,2-Dibromoethane
 Concen: 1.98 ug/l
 RT: 11.01 min Scan# 2929
 Delta R.T. 0.00 min
 Lab File: VN049782.D
 Acq: 12 Jul 2018 21:02

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

Tot Ion	Ratio	Lower	Upper
107	100		
109	100.1	75.0	112.6

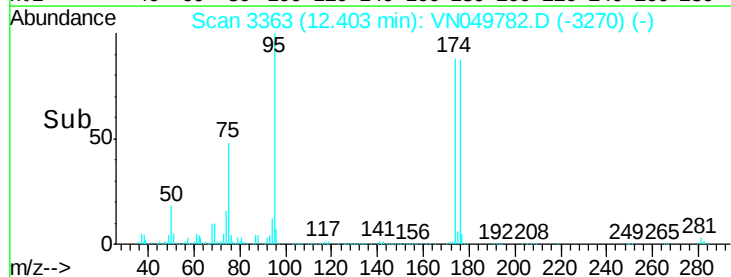
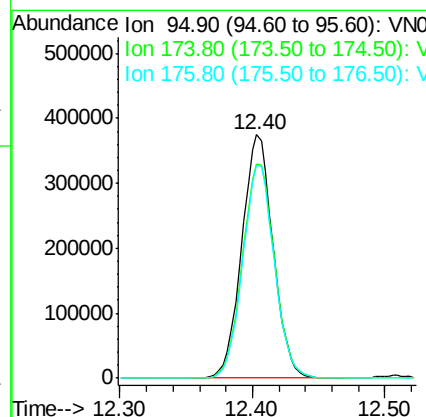
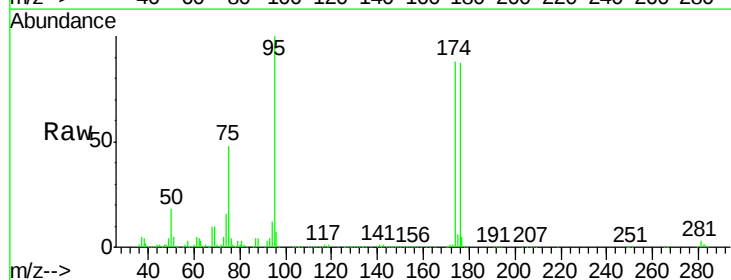
Manual Integrations
 APPROVED

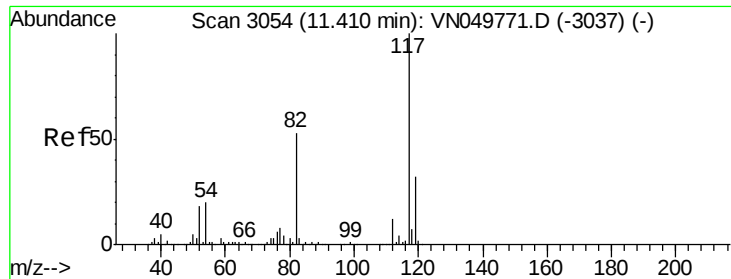
MMDadoda
 7/13/2018 1:35:37 PM



#62
 4-Bromofluorobenzene
 Concen: 39.77 ug/l
 RT: 12.40 min Scan# 3363
 Delta R.T. 0.00 min
 Lab File: VN049782.D
 Acq: 12 Jul 2018 21:02

Tgt Ion	Ratio	Lower	Upper
95	100		
174	91.1	0.0	179.6
176	88.5	0.0	174.0





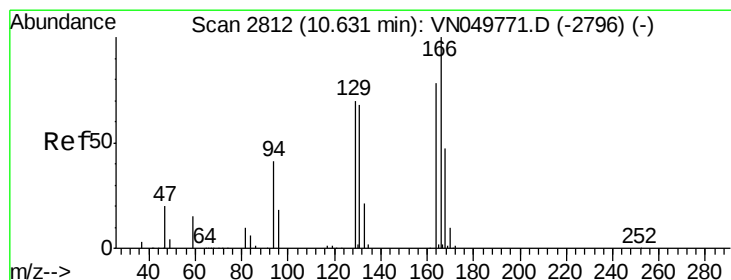
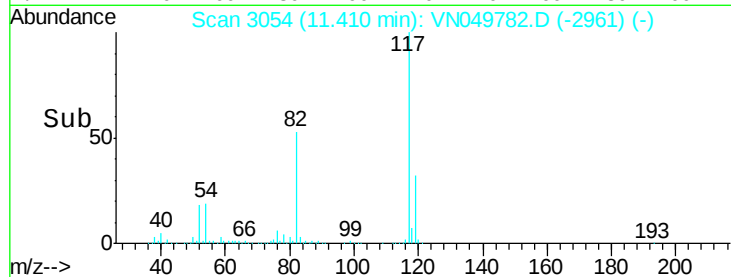
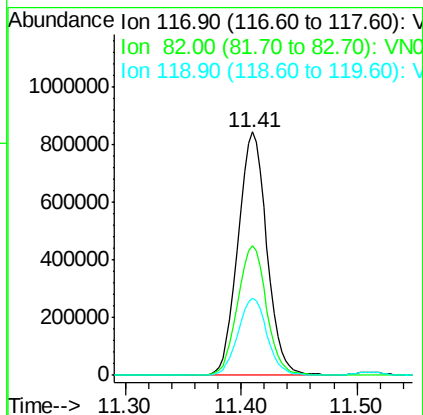
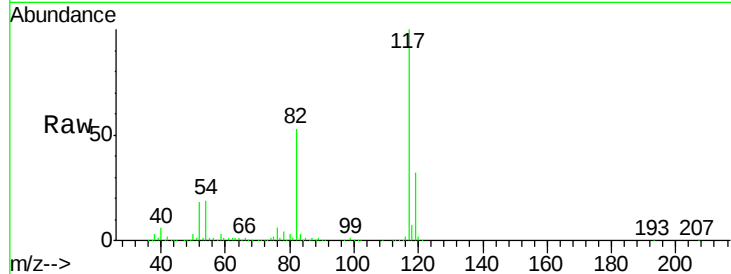
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN049782.D
Acq: 12 Jul 2018 21:02

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

Tot Ion:117 Resp: 1455987
Ion Ratio Lower Upper
117 100
82 53.4 41.9 62.9
119 31.7 25.4 38.2

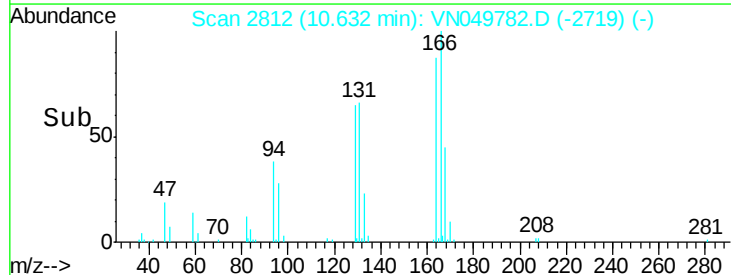
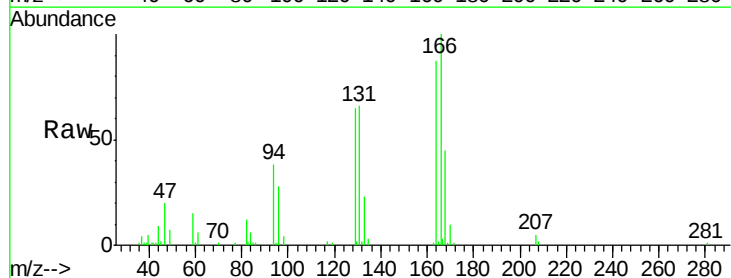
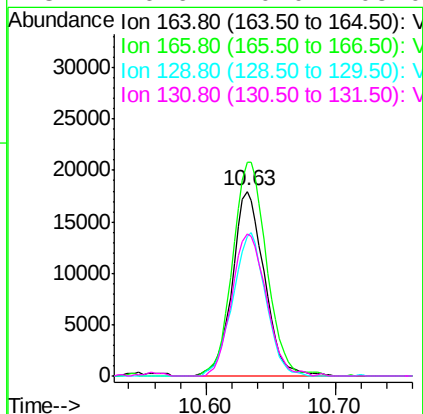
Manual Integrations
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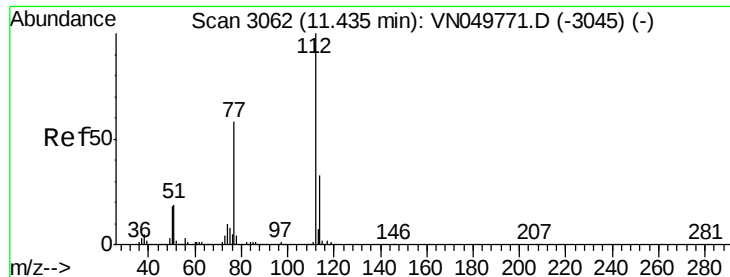
MMDadoda
7/13/2018 1:35:37 PM



#64
Tetrachloroethene
Concen: 2.34 ug/l
RT: 10.63 min Scan# 2812
Delta R.T. 0.00 min
Lab File: VN049782.D
Acq: 12 Jul 2018 21:02

Tgt Ion:164 Resp: 30981
Ion Ratio Lower Upper
164 100
166 115.5 101.8 152.6
129 75.2 72.8 109.2
131 76.6 70.0 105.0





#65

Chlorobenzene

Concen: 2.03 ug/l

RT: 11.44 min Scan# 3062

Delta R.T. 0.00 min

Lab File: VN049782.D

Acq: 12 Jul 2018 21:02

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT3-2018

Tot Ion:112 Resp: 77101

Ion Ratio Lower Upper

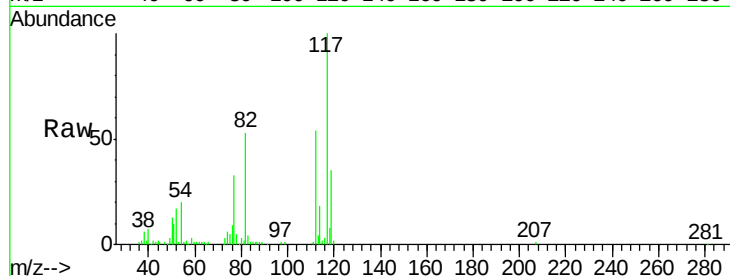
112 100

114 34.1 25.4 38.0

Manual Integrations
APPROVED

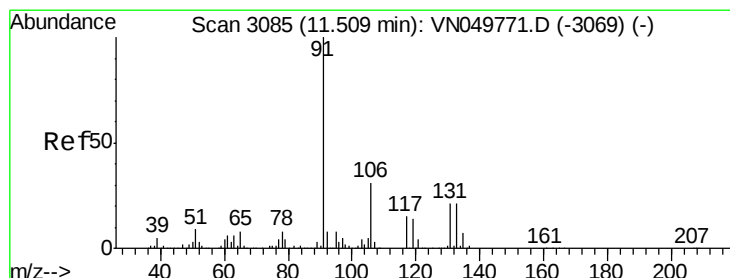
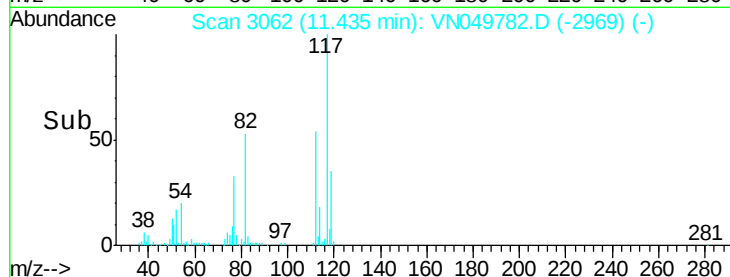
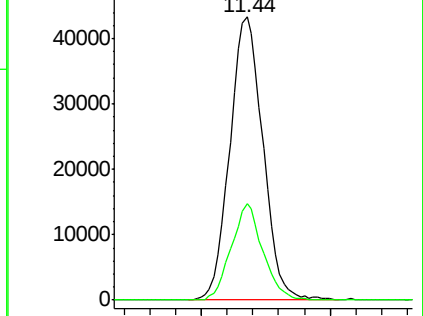
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Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 2.19 ug/l

RT: 11.51 min Scan# 3085

Delta R.T. 0.00 min

Lab File: VN049782.D

Acq: 12 Jul 2018 21:02

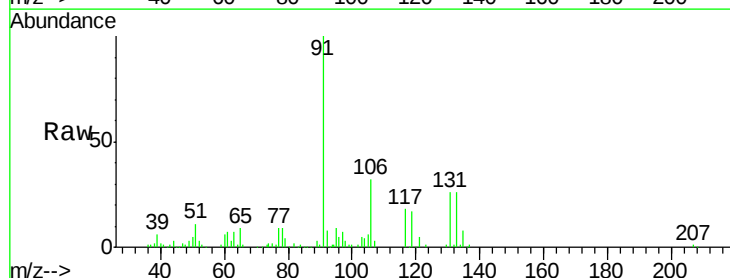
Tgt Ion:131 Resp: 31264

Ion Ratio Lower Upper

131 100

133 91.6 47.5 142.6

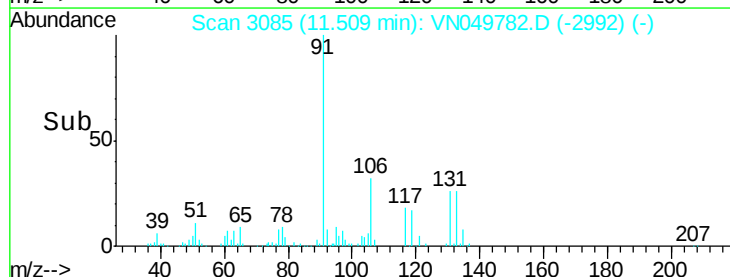
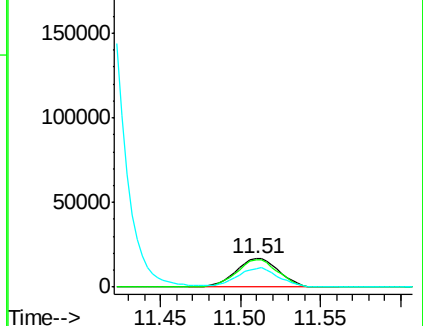
119 65.2 33.1 99.3

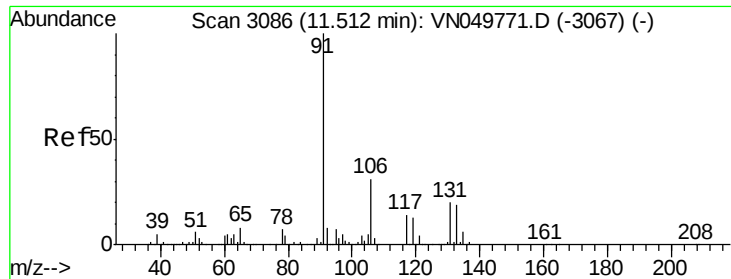


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





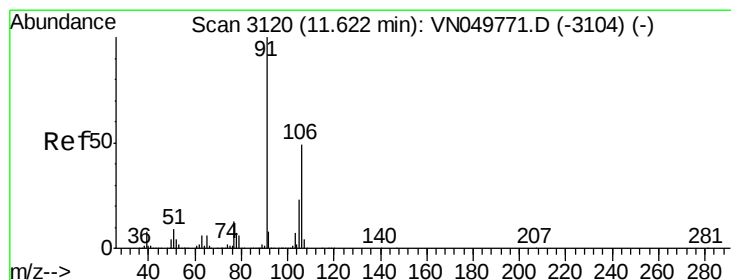
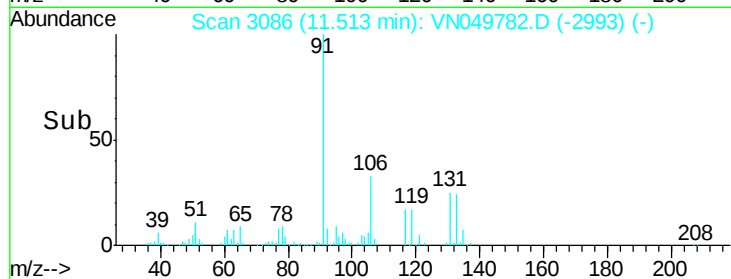
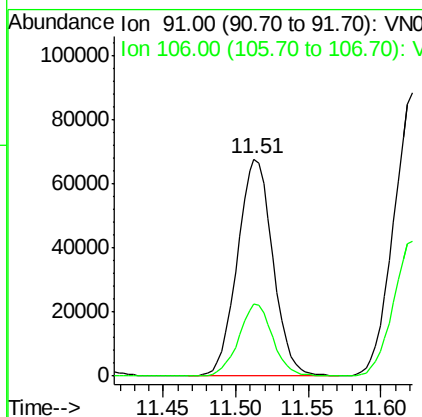
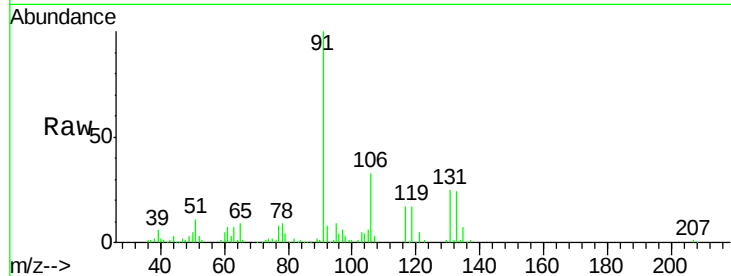
#67
Ethyl Benzene
Concen: 1.86 ug/l
RT: 11.51 min Scan# 3086
Delta R.T. 0.00 min
Lab File: VN049782.D
Acq: 12 Jul 2018 21:02

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

Tot Ion: 91 Resp: 115238
Ion Ratio Lower Upper
91 100
106 33.1 24.8 37.2

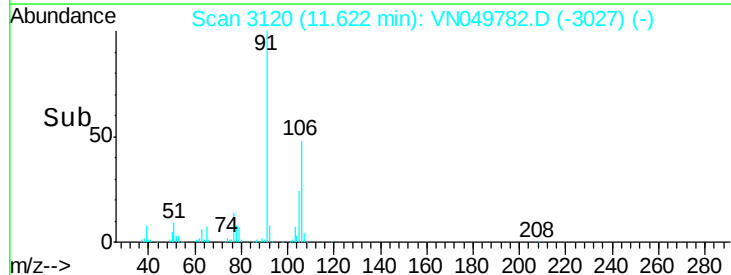
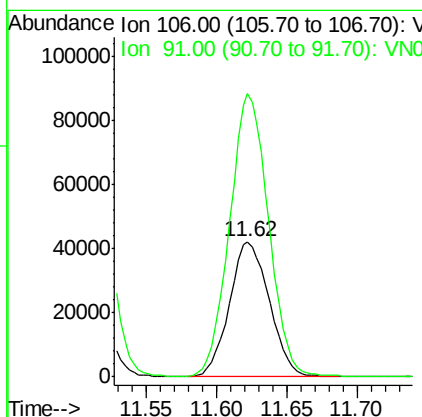
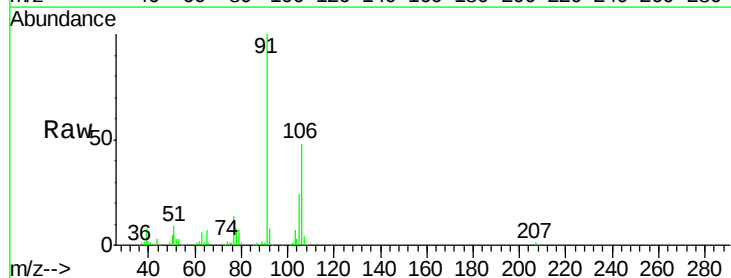
Manual Integrations
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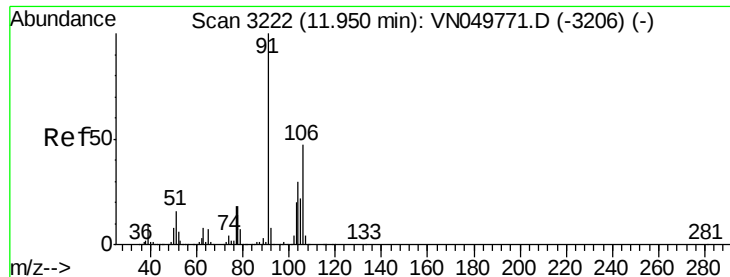
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#68
m/p-Xylenes
Concen: 3.59 ug/l
RT: 11.62 min Scan# 3120
Delta R.T. 0.00 min
Lab File: VN049782.D
Acq: 12 Jul 2018 21:02

Tgt Ion: 106 Resp: 83677
Ion Ratio Lower Upper
106 100
91 204.5 163.4 245.2





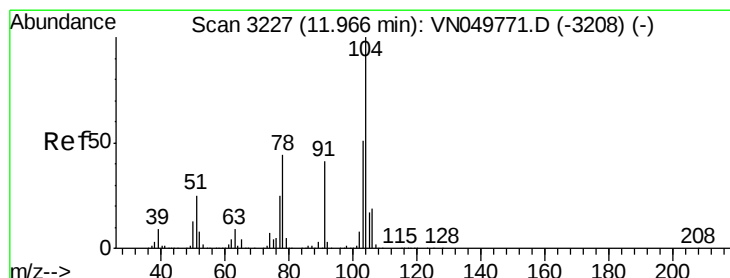
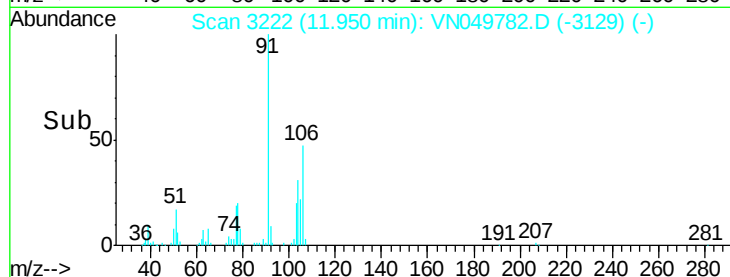
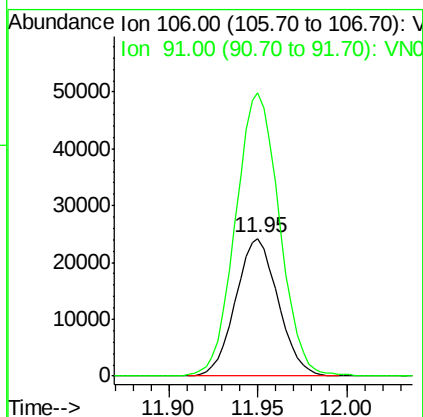
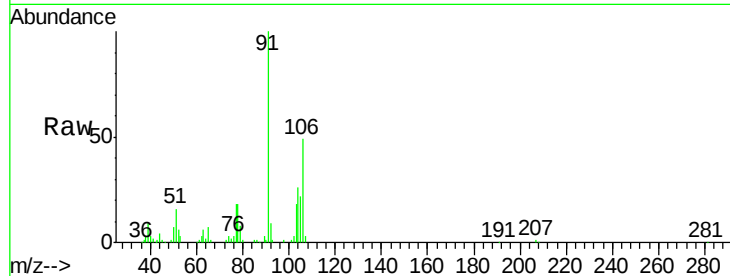
#69
o-Xylene
Concen: 1.78 ug/l
RT: 11.95 min Scan# 3222
Delta R.T. 0.00 min
Lab File: VN049782.D
Acq: 12 Jul 2018 21:02

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

Tot Ion:106 Resp: 40167
Ion Ratio Lower Upper
106 100
91 212.5 108.7 326.1

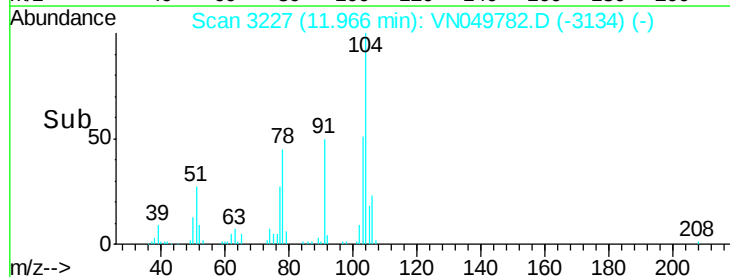
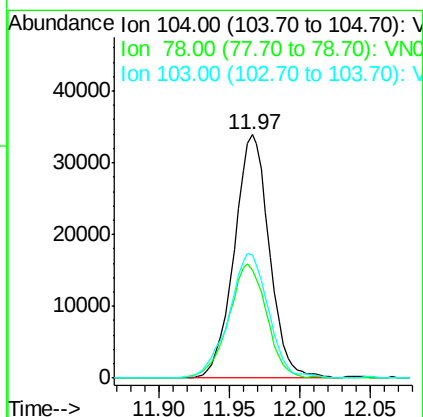
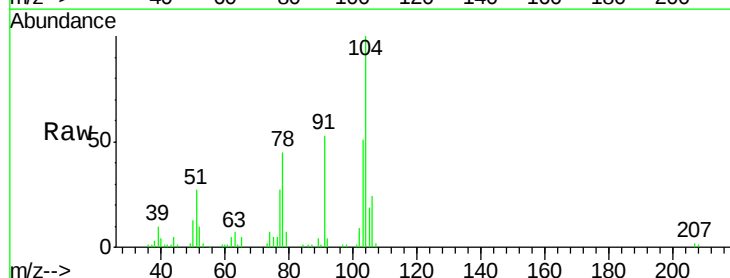
Manual Integrations
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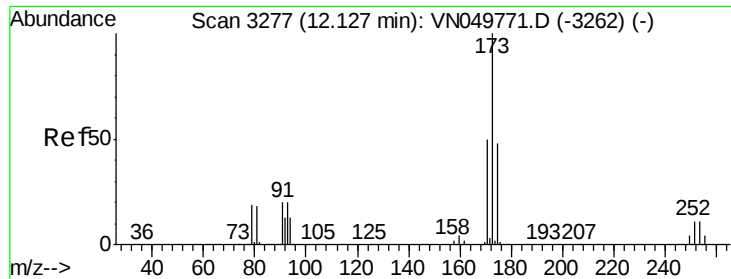
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#70
Styrene
Concen: 1.65 ug/l
RT: 11.97 min Scan# 3227
Delta R.T. 0.00 min
Lab File: VN049782.D
Acq: 12 Jul 2018 21:02

Tgt Ion:104 Resp: 59162
Ion Ratio Lower Upper
104 100
78 50.6 39.2 58.8
103 57.5 44.6 67.0





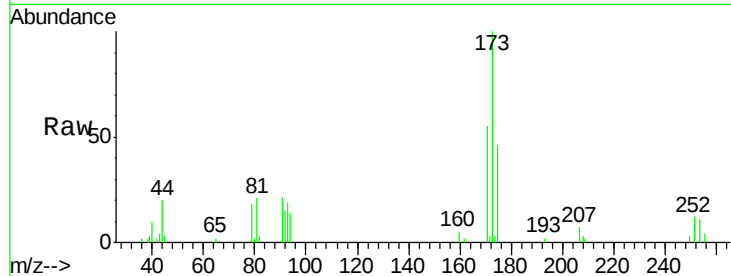
#71
Bromoform
Concen: 1.96 ug/l
RT: 12.13 min Scan# 3277
Delta R.T. 0.00 min
Lab File: VN049782.D
Acq: 12 Jul 2018 21:02

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

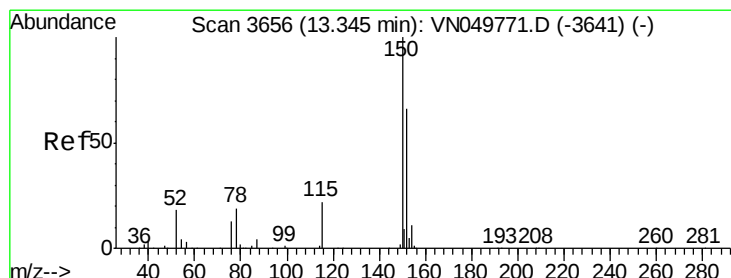
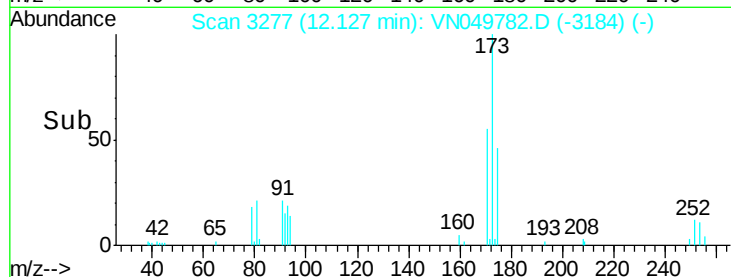
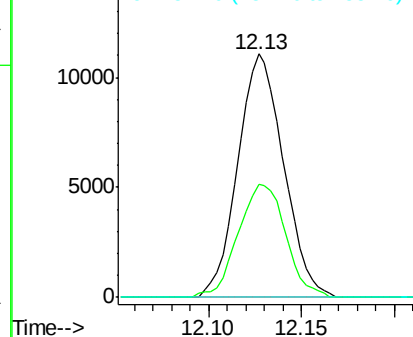
Tot Ion	Ratio	Lower	Upper
173	100		
175	48.3	24.6	73.8
254	0.0	0.2	0.2

Manual Integrations
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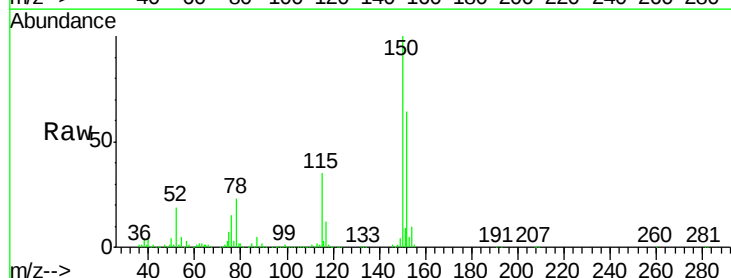


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

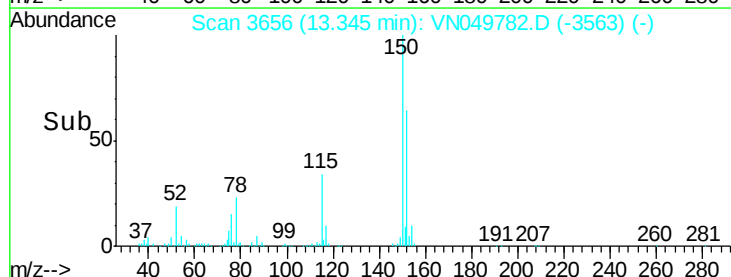
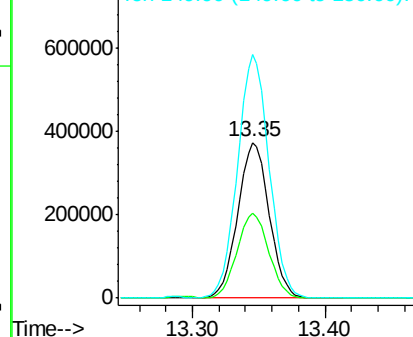


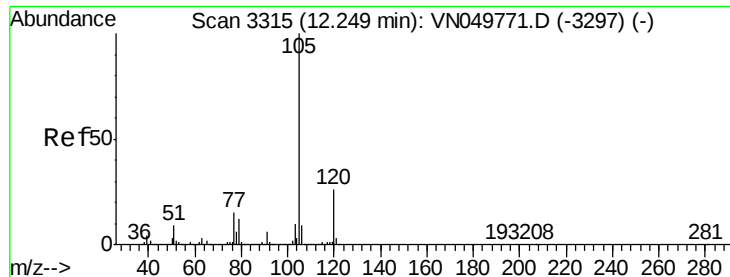
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.35 min Scan# 3656
Delta R.T. 0.00 min
Lab File: VN049782.D
Acq: 12 Jul 2018 21:02

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.2	28.1	84.2
150	156.5	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: 2.04 ug/l

RT: 12.25 min Scan# 3316

Delta R.T. 0.00 min

Lab File: VN049782.D

Acq: 12 Jul 2018 21:02

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT3-2018

Tot Ion: 105 Resp: 104095

Ion Ratio Lower Upper

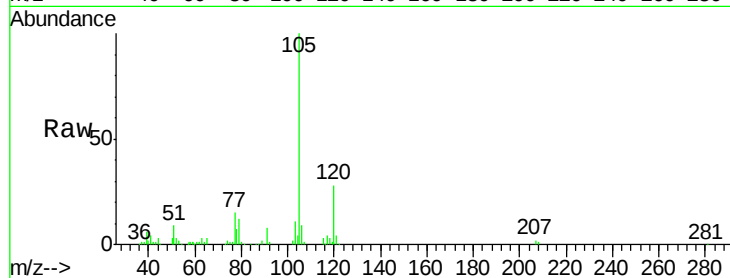
105 100

120 26.2 13.3 39.8

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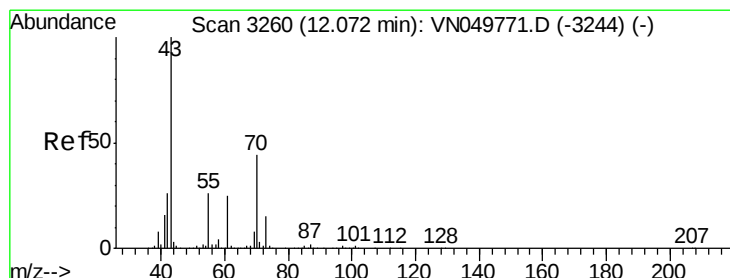
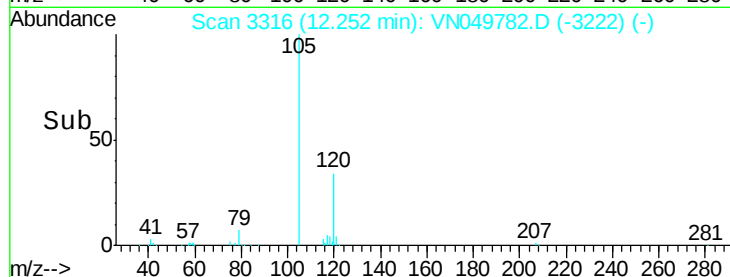
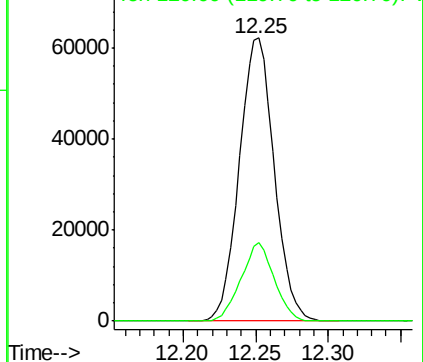
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 1.76 ug/l

RT: 12.07 min Scan# 3260

Delta R.T. 0.00 min

Lab File: VN049782.D

Acq: 12 Jul 2018 21:02

Tgt Ion: 43 Resp: 23352

Ion Ratio Lower Upper

43 100

70 41.7 34.8 52.2

55 27.2 20.9 31.3

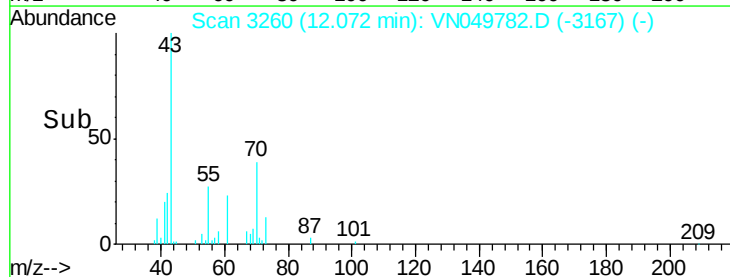
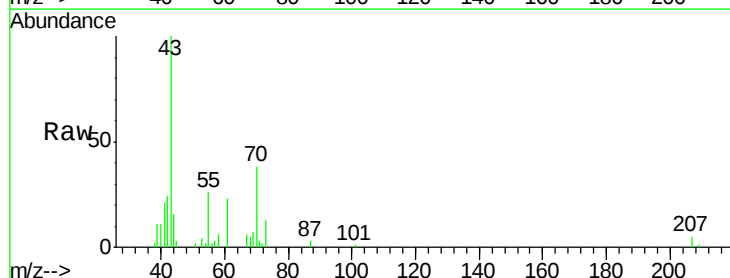
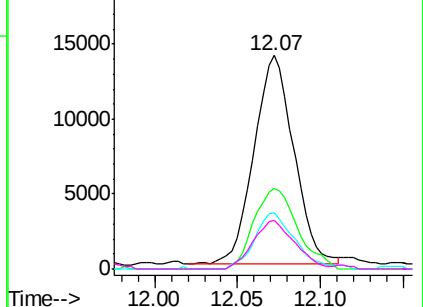
61 24.2 19.9 29.9

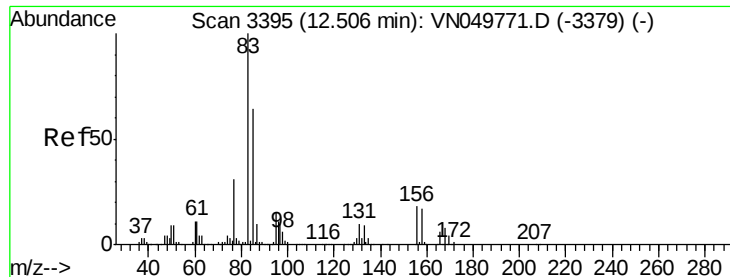
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: 0.78 ug/l

RT: 12.51 min Scan# 3395

Delta R.T. 0.00 min

Lab File: VN049782.D

Acq: 12 Jul 2018 21:02

Instrument :

MSVOA_N

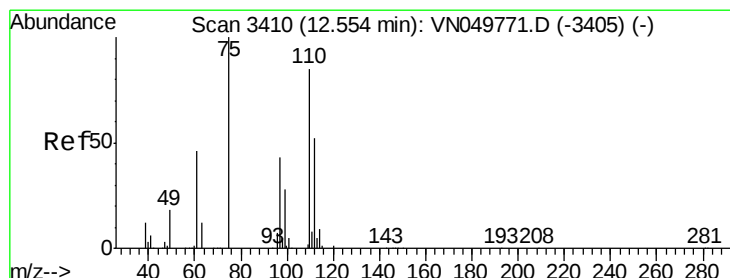
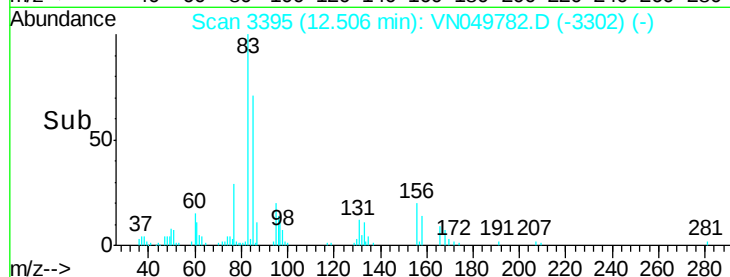
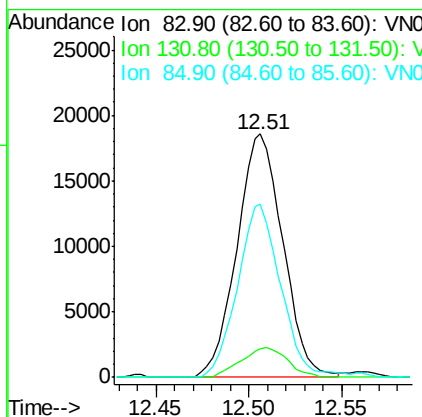
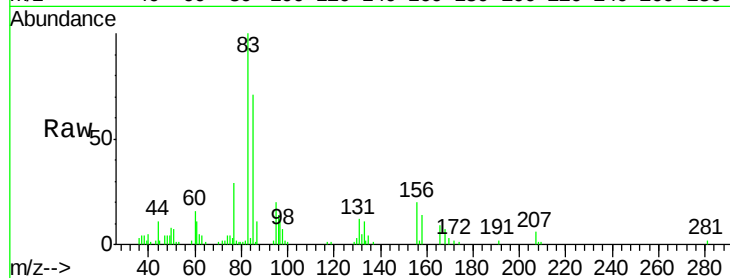
ClientSampleId :

LOQ-WATER-02-QT3-2018

Tot Ion:	83	Resp:	31854
Ion Ratio	Lower	Upper	
83	100		
131	12.4	5.2	15.6
85	66.9	32.5	97.4

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#76

1,2,3-Trichloropropane

Concen: 2.54 ug/l m

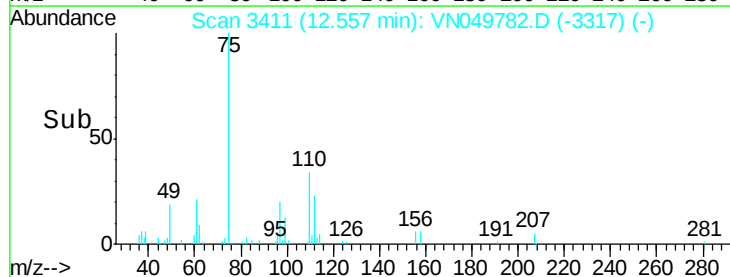
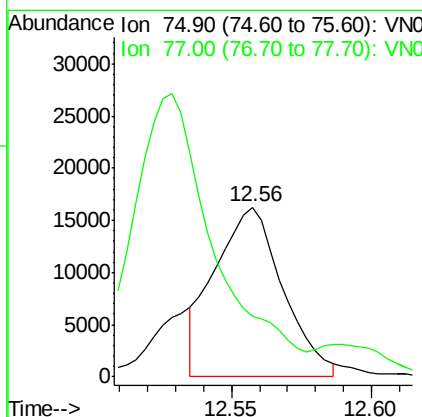
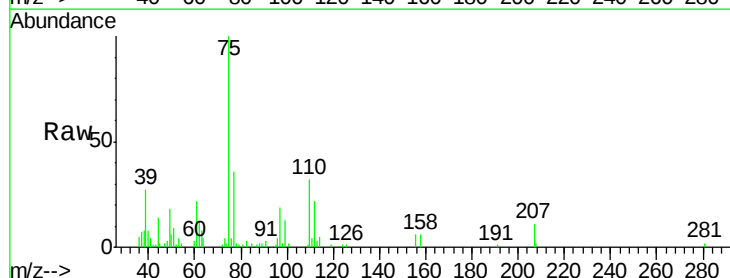
RT: 12.56 min Scan# 3411

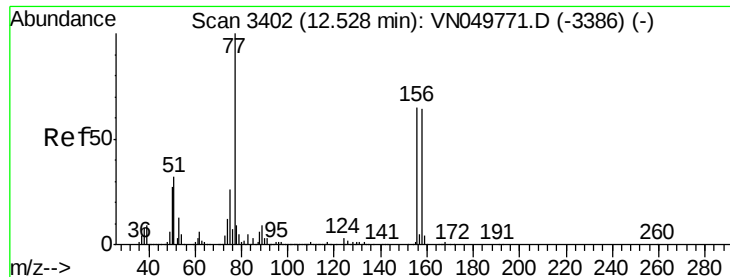
Delta R.T. 0.00 min

Lab File: VN049782.D

Acq: 12 Jul 2018 21:02

Tgt Ion:	75	Resp:	27655
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 2.36 ug/l

RT: 12.53 min Scan# 3402

Delta R.T. 0.00 min

Lab File: VN049782.D

Acq: 12 Jul 2018 21:02

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT3-2018

Tot Ion:156 Resp: 31958

Ion Ratio Lower Upper

156 100

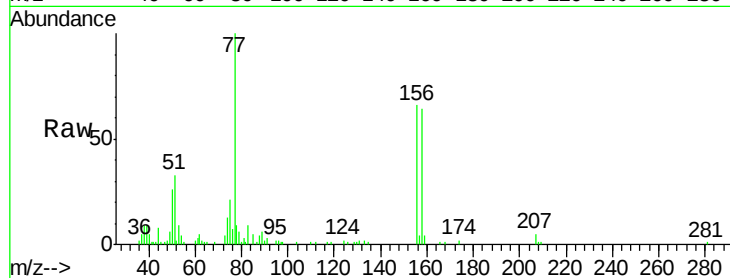
77 172.8 90.2 270.6

158 93.6 49.1 147.3

Manual Integrations
APPROVED

MMDadoda

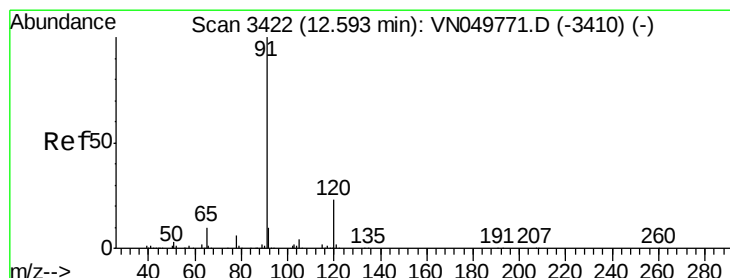
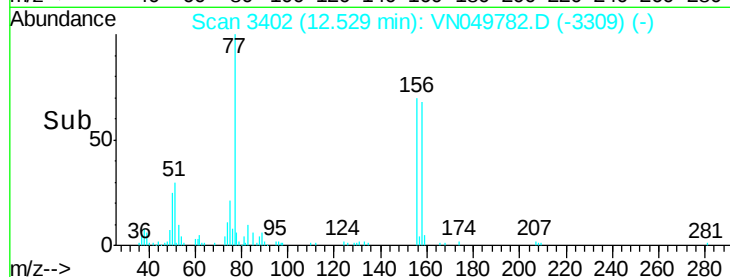
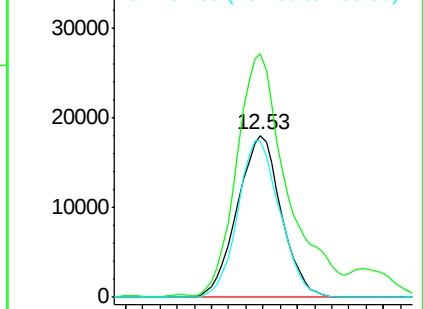
7/13/2018 1:35:37 PM



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: 2.09 ug/l

RT: 12.59 min Scan# 3422

Delta R.T. 0.00 min

Lab File: VN049782.D

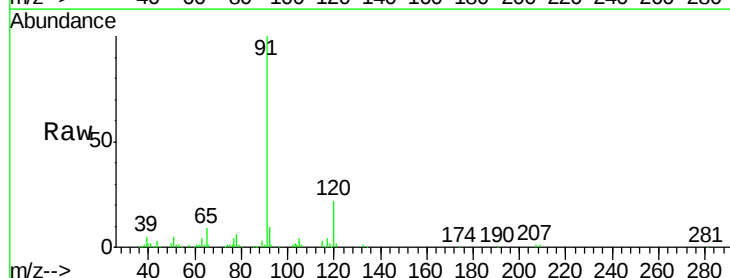
Acq: 12 Jul 2018 21:02

Tgt Ion: 91 Resp: 120044

Ion Ratio Lower Upper

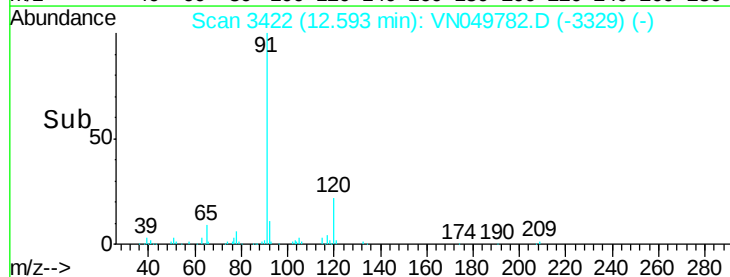
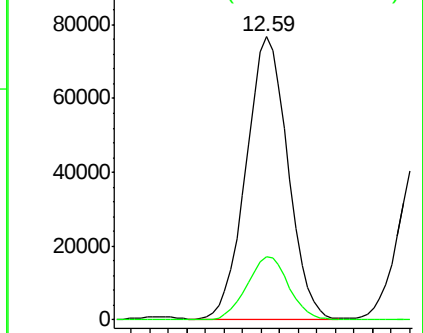
91 100

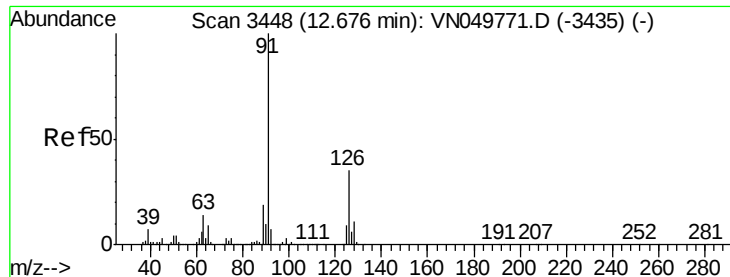
120 22.5 11.5 34.4



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 2.27 ug/l

RT: 12.68 min Scan# 3448

Delta R.T. 0.00 min

Lab File: VN049782.D

Acq: 12 Jul 2018 21:02

Instrument :

MSVOA_N

ClientSampled :

LOQ-WATER-02-QT3-2018

Tot Ion: 91 Resp: 79915

Ion Ratio Lower Upper

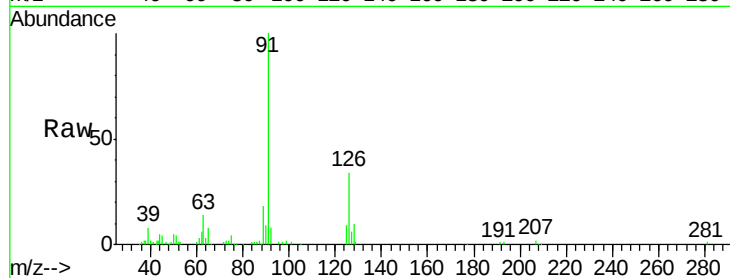
91 100

126 34.6 17.5 52.5

Manual Integrations
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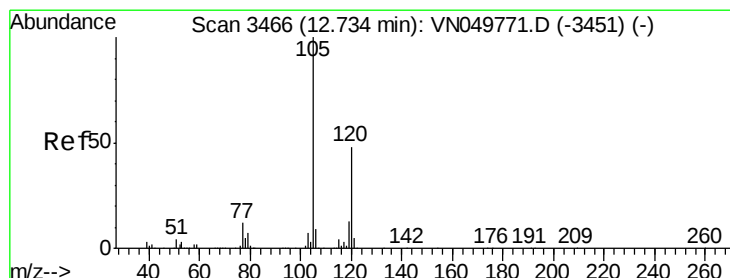
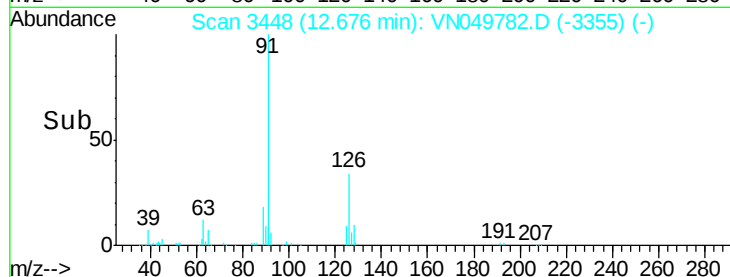
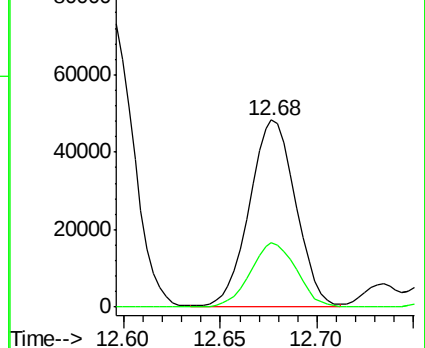
MMDadoda

7/13/2018 1:35:37 PM



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

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



#80

1,3,5-Trimethylbenzene

Concen: 1.97 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. 0.00 min

Lab File: VN049782.D

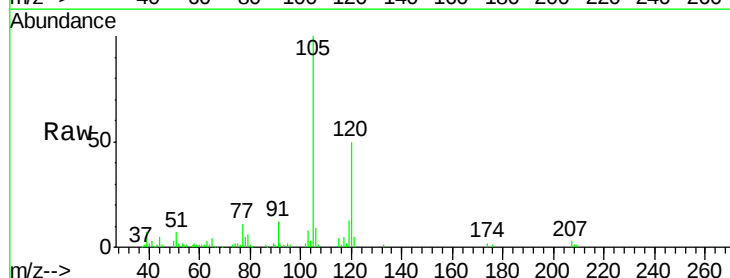
Acq: 12 Jul 2018 21:02

Tgt Ion: 105 Resp: 79778

Ion Ratio Lower Upper

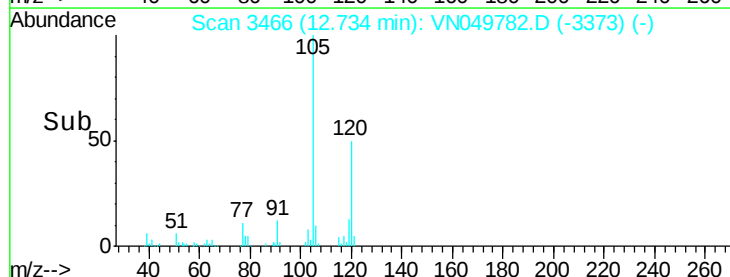
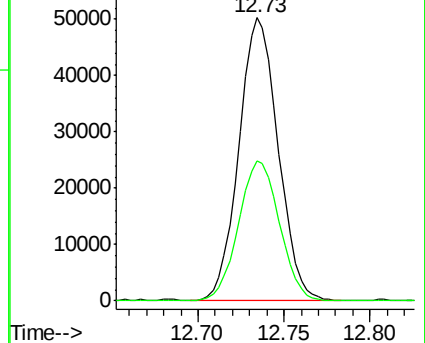
105 100

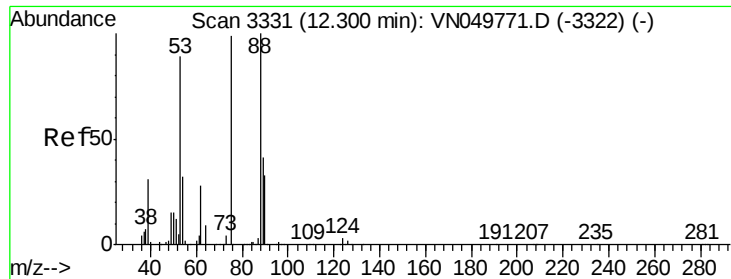
120 51.5 24.3 72.8



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

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





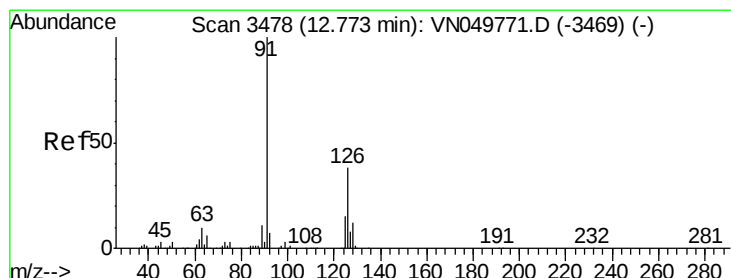
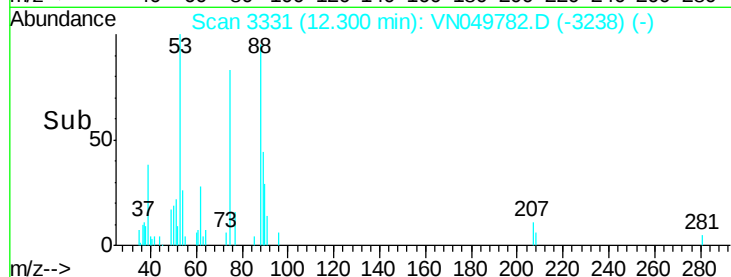
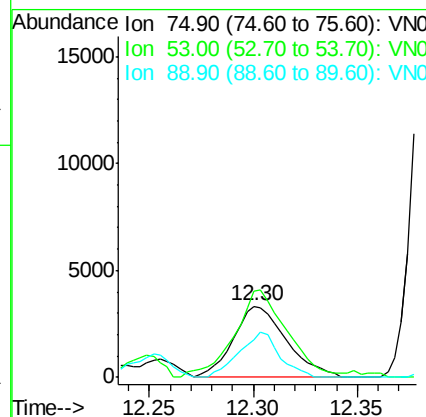
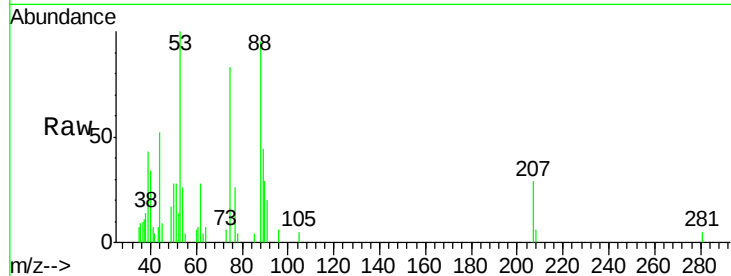
#81
trans-1,4-Dichloro-2-butene
Concen: 1.75 ug/l m
RT: 12.30 min Scan# 3331
Delta R.T. 0.00 min
Lab File: VN049782.D
Acq: 12 Jul 2018 21:02

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

Tot Ion	Ratio	Lower	Upper
75	100		
53	4.6	73.9	110.9#
89	0.0	35.9	53.9#

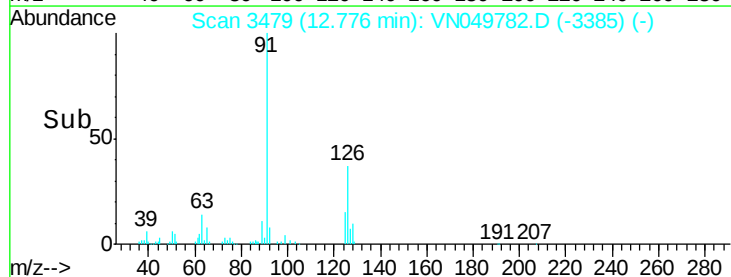
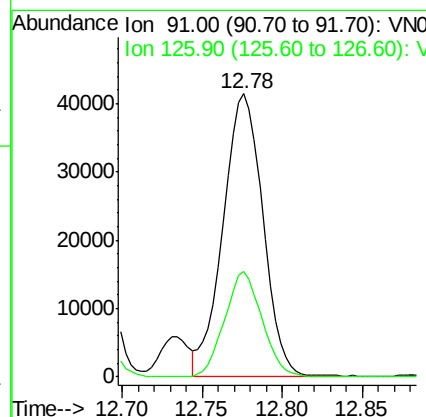
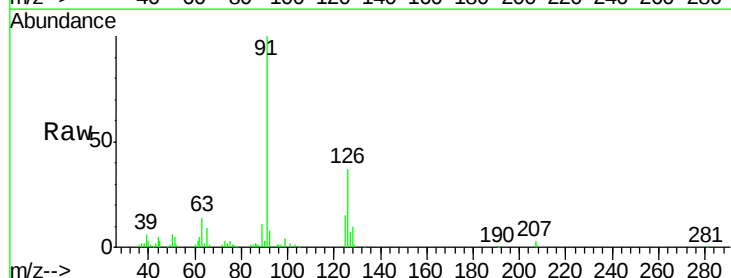
Manual Integrations
APPROVED

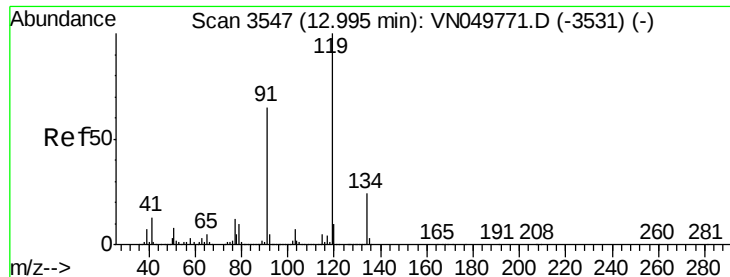
MMDadoda
7/13/2018 1:35:37 PM



#82
4-Chlorotoluene
Concen: 2.04 ug/l
RT: 12.78 min Scan# 3479
Delta R.T. 0.00 min
Lab File: VN049782.D
Acq: 12 Jul 2018 21:02

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.9	17.2	51.6





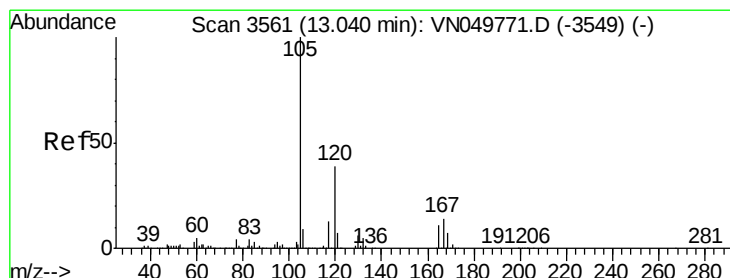
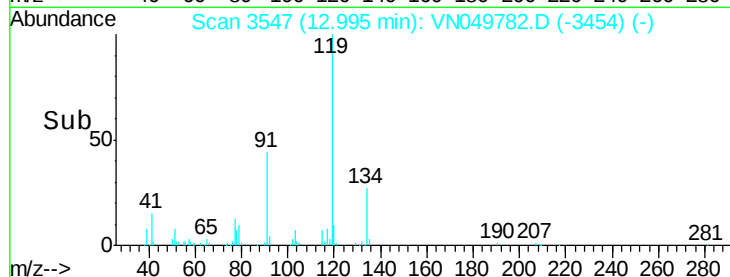
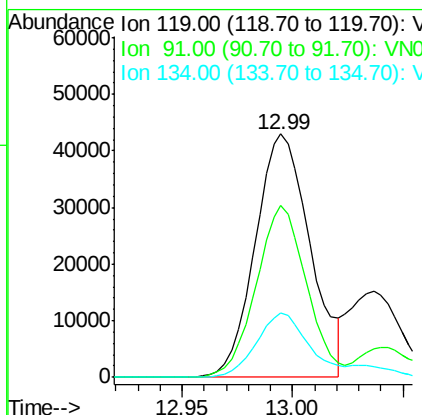
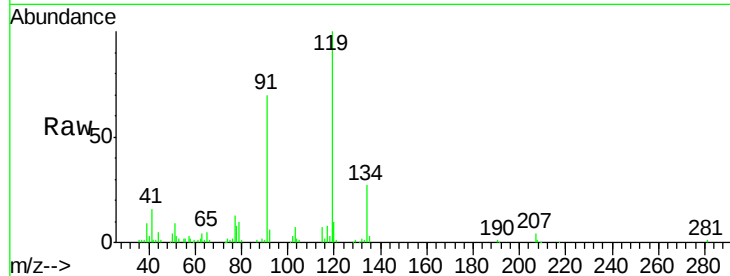
#83
tert-Butylbenzene
Concen: 2.05 ug/l
RT: 12.99 min Scan# 3547
Delta R.T. 0.00 min
Lab File: VN049782.D
Acq: 12 Jul 2018 21:02

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

Tot Ion	Ratio	Lower	Upper
119	100		
91	64.9	32.0	96.2
134	25.3	12.8	38.4

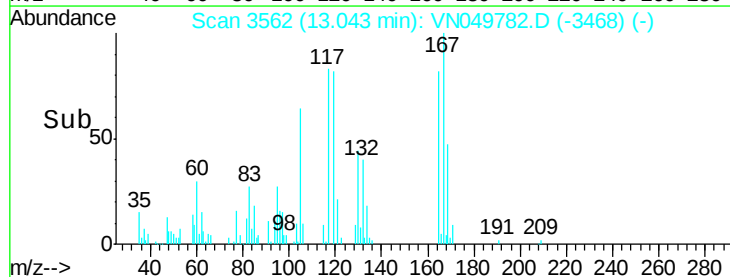
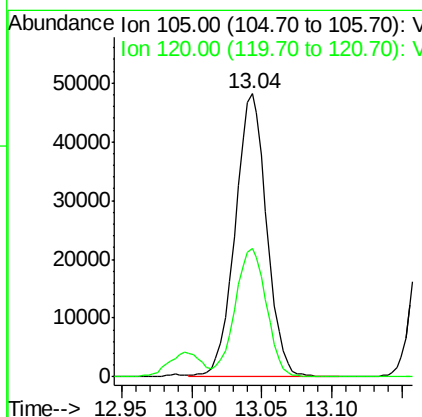
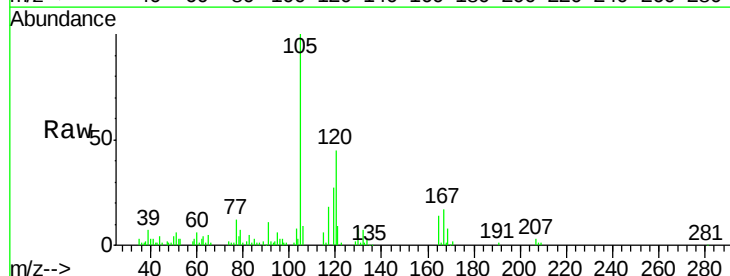
Manual Integrations
APPROVED

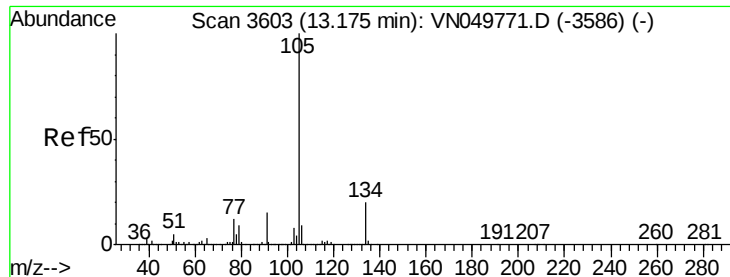
MMDadoda
7/13/2018 1:35:37 PM



#84
1,2,4-Trimethylbenzene
Concen: 1.85 ug/l
RT: 13.04 min Scan# 3562
Delta R.T. 0.00 min
Lab File: VN049782.D
Acq: 12 Jul 2018 21:02

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.2	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: VN049782.D

Acq: 12 Jul 2018 21:02

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT3-2018

Tot Ion:105 Resp: 92755

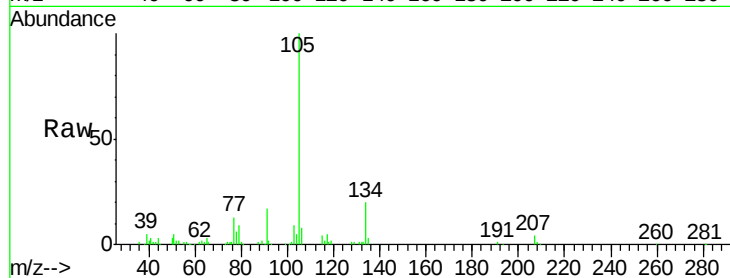
Ion Ratio Lower Upper

105 100

134 20.1 10.1 30.1

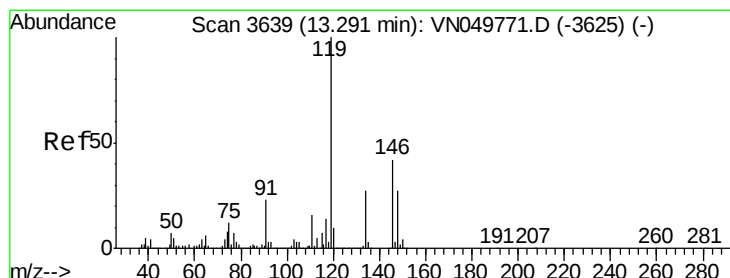
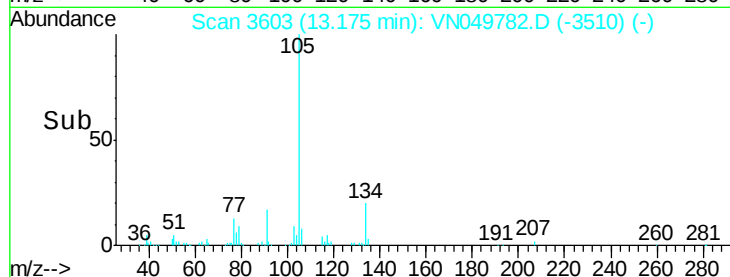
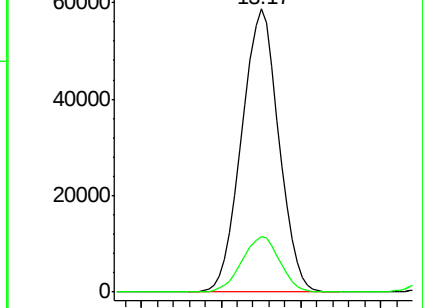
Manual Integrations
APPROVED

MMDadoda
7/13/2018 1:35:37 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 1.81 ug/l

RT: 13.29 min Scan# 3639

Delta R.T. 0.00 min

Lab File: VN049782.D

Acq: 12 Jul 2018 21:02

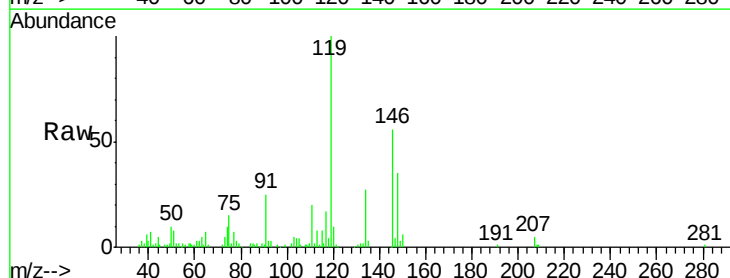
Tgt Ion:119 Resp: 72641

Ion Ratio Lower Upper

119 100

134 27.2 13.3 39.9

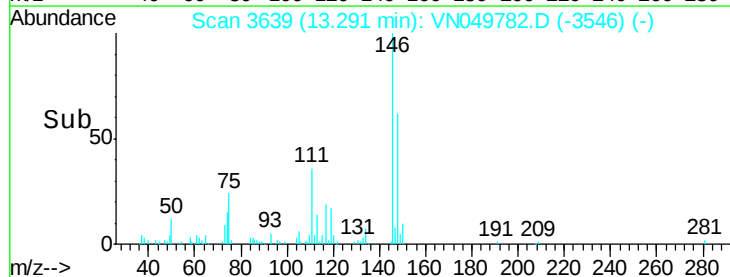
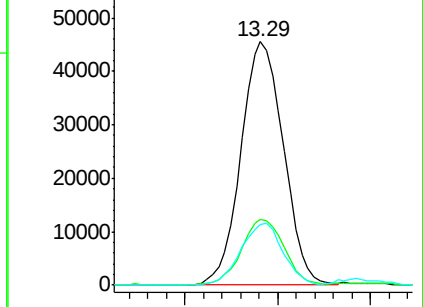
91 25.3 11.4 34.1

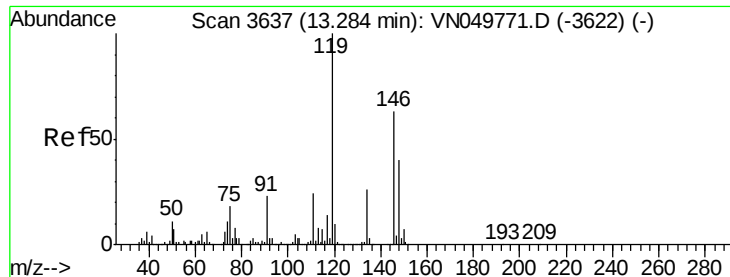


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





#87

1,3-Dichlorobenzene

Concen: 2.03 ug/l

RT: 13.28 min Scan# 3637

Delta R.T. 0.00 min

Lab File: VN049782.D

Acq: 12 Jul 2018 21:02

Instrument :

MSVOA_N

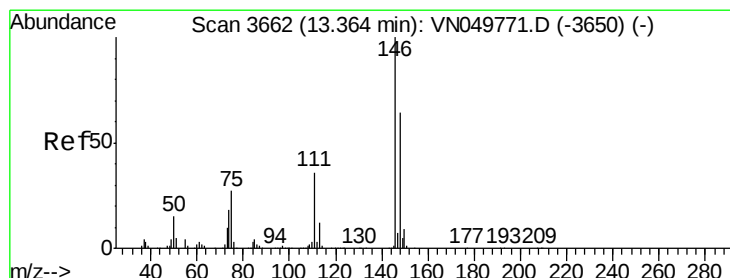
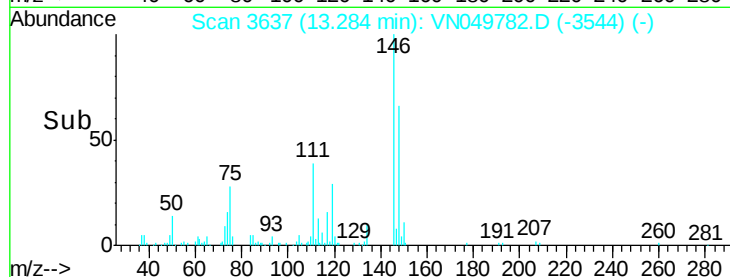
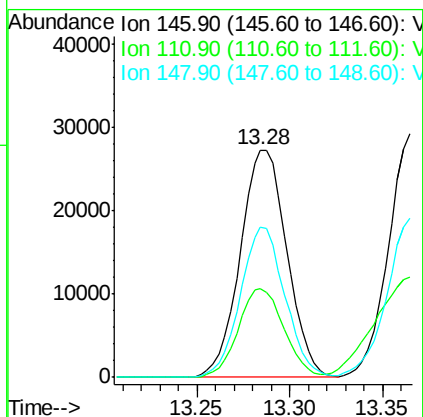
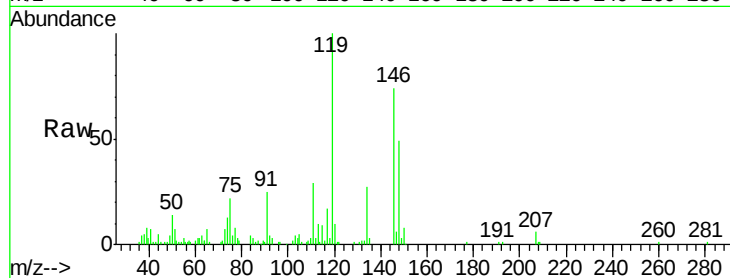
ClientSampleId :

LOQ-WATER-02-QT3-2018

Tot Ion:	146	Resp:	47595
Ion	Ratio	Lower	Upper
146	100		
111	38.1	19.0	57.0
148	63.2	32.5	97.5

Manual Integrations
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7/13/2018 1:35:37 PM



#88

1,4-Dichlorobenzene

Concen: 2.18 ug/l

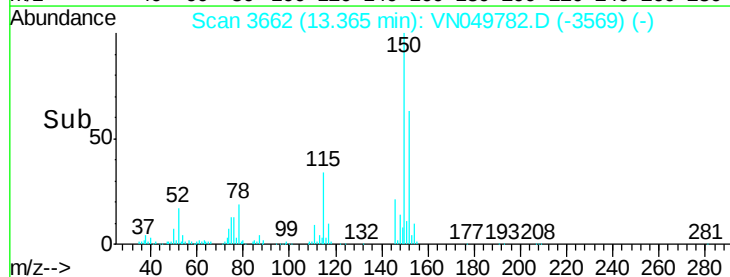
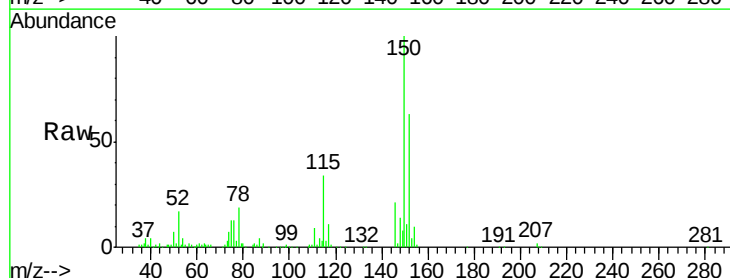
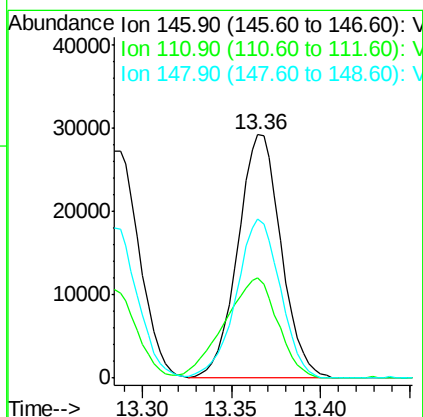
RT: 13.36 min Scan# 3662

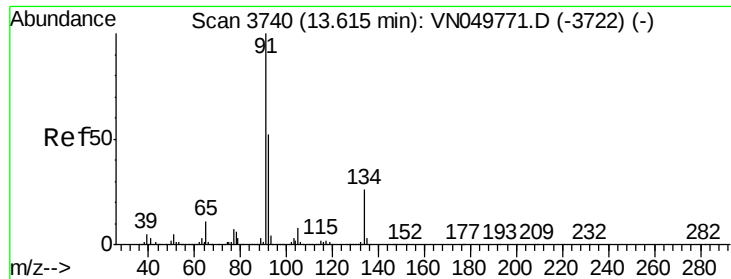
Delta R.T. 0.00 min

Lab File: VN049782.D

Acq: 12 Jul 2018 21:02

Tgt Ion:	146	Resp:	49656
Ion	Ratio	Lower	Upper
146	100		
111	50.6	18.9	56.5
148	66.4	32.1	96.3





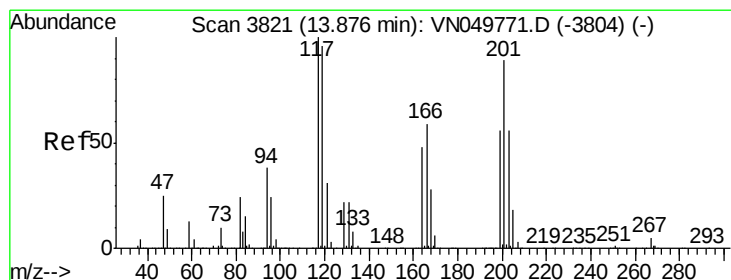
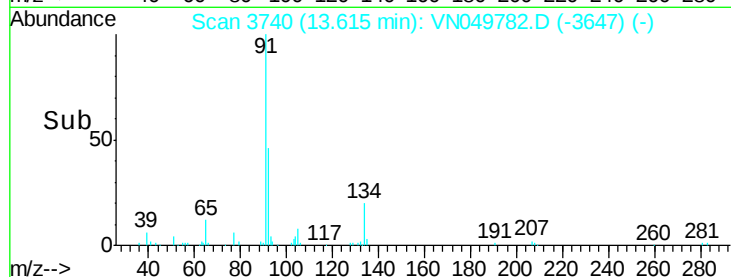
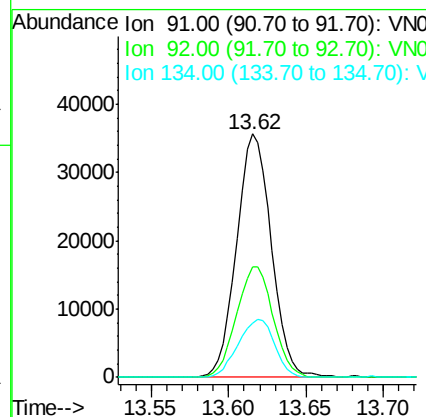
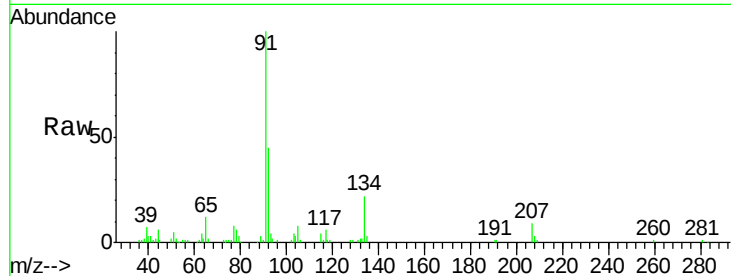
#89
n-Butylbenzene
Concen: 1.67 ug/l
RT: 13.62 min Scan# 3740
Delta R.T. 0.00 min
Lab File: VN049782.D
Acq: 12 Jul 2018 21:02

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

Tot Ion	Ratio	Lower	Upper
91	100		
92	47.7	25.8	77.3
134	25.1	13.0	38.9

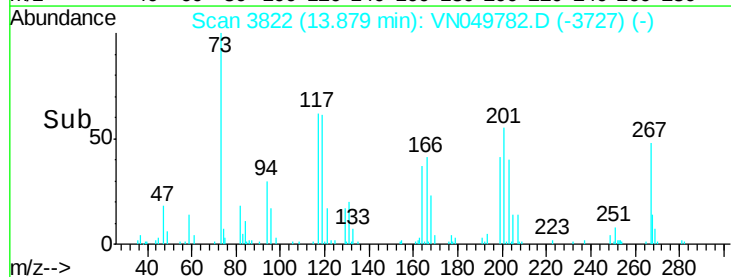
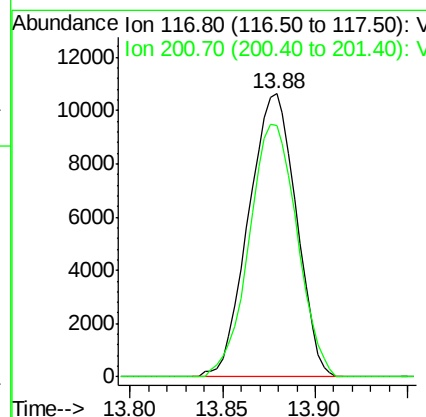
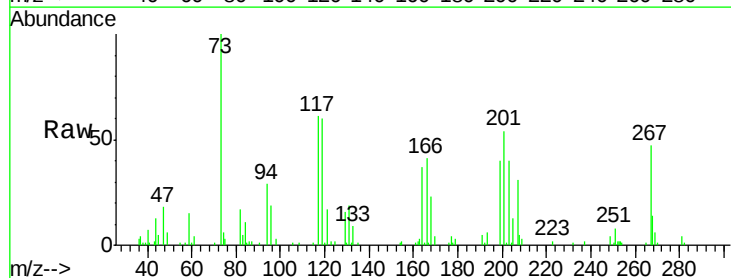
Manual Integrations
APPROVED

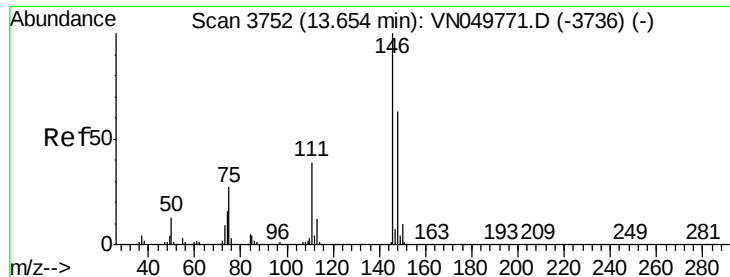
MMDadoda
7/13/2018 1:35:37 PM



#90
Hexachloroethane
Concen: 1.63 ug/l
RT: 13.88 min Scan# 3822
Delta R.T. 0.00 min
Lab File: VN049782.D
Acq: 12 Jul 2018 21:02

Tgt Ion	Ratio	Lower	Upper
117	100		
201	89.8	45.3	135.8





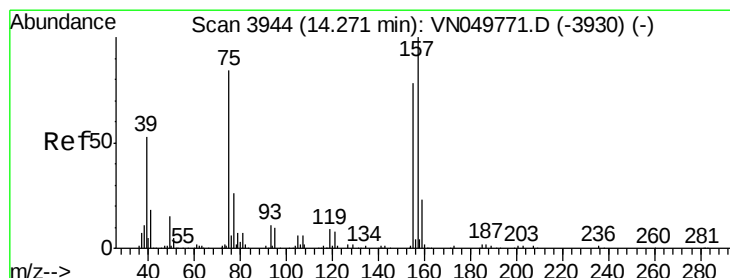
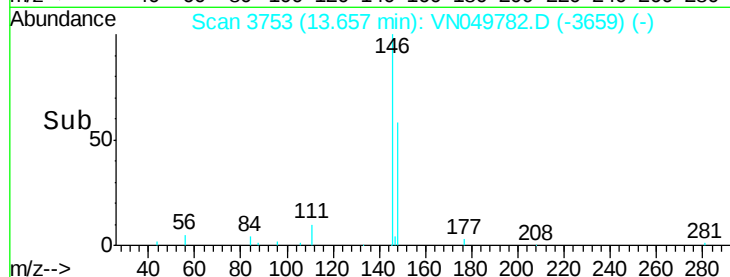
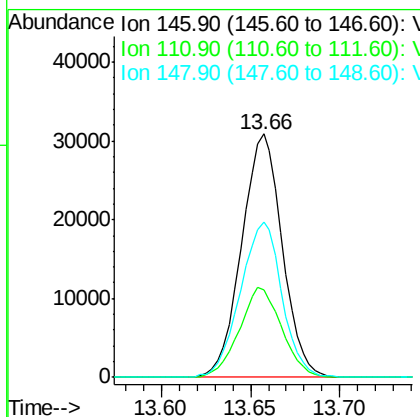
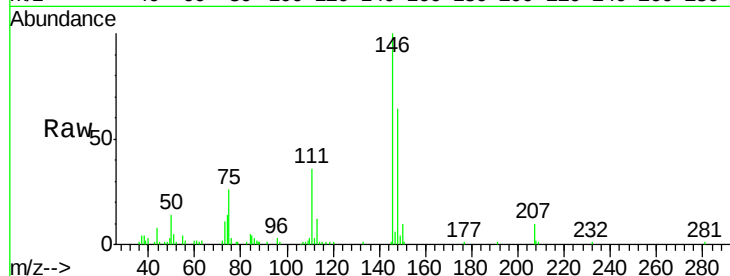
#91
 1,2-Dichlorobenzene
 Concen: 2.14 ug/l
 RT: 13.66 min Scan# 3753
 Delta R.T. 0.00 min
 Lab File: VN049782.D
 Acq: 12 Jul 2018 21:02

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

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.5	19.7	59.1
148	65.4	32.0	96.2

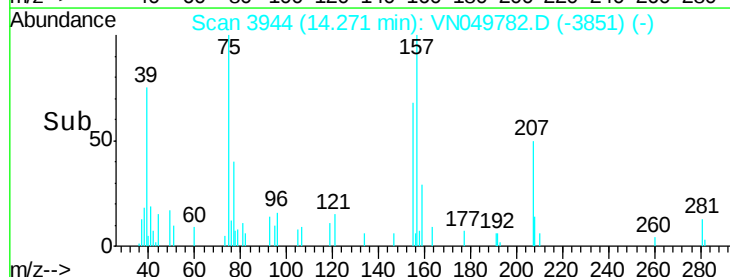
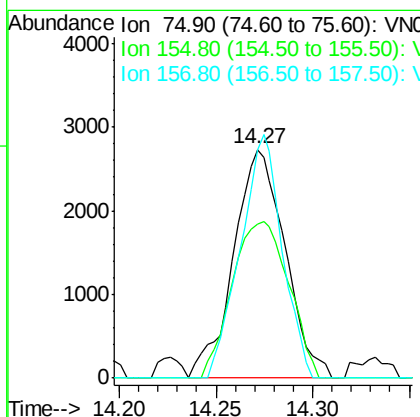
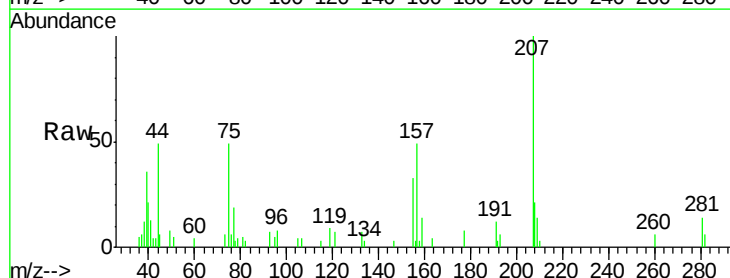
Manual Integrations
 APPROVED

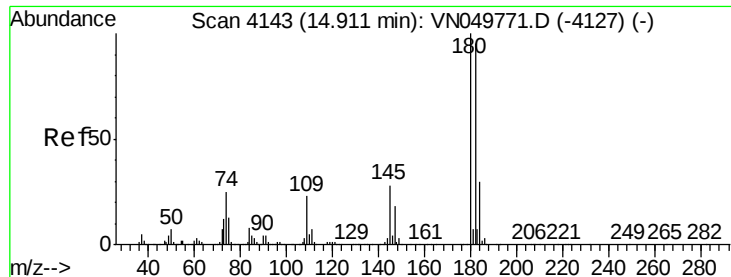
MMDadoda
 7/13/2018 1:35:37 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 2.34 ug/l
 RT: 14.27 min Scan# 3944
 Delta R.T. 0.00 min
 Lab File: VN049782.D
 Acq: 12 Jul 2018 21:02

Tgt Ion	Ratio	Lower	Upper
75	100		
155	75.2	45.7	137.1
157	86.3	56.9	170.7





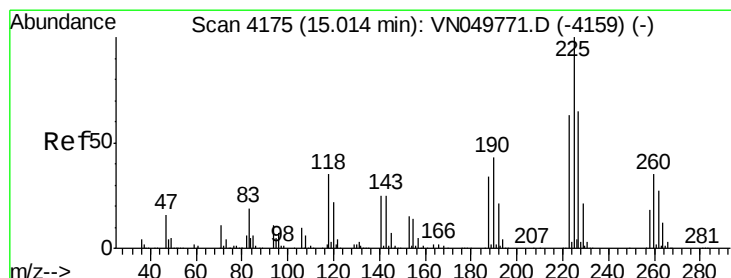
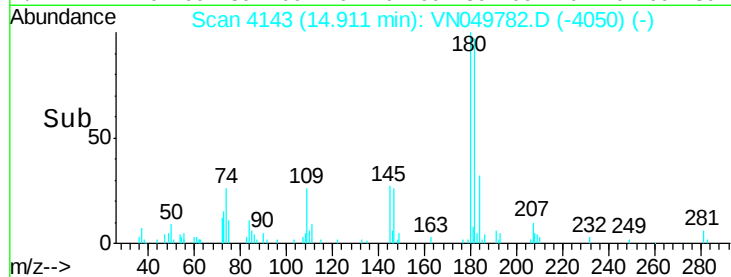
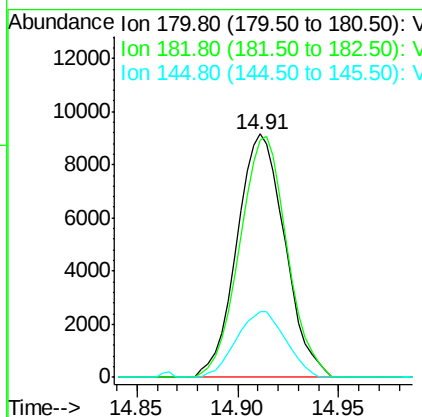
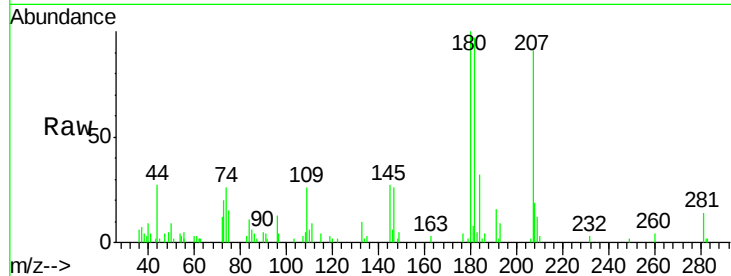
#93
 1,2,4-Trichlorobenzene
 Concen: 4.03 ug/l
 RT: 14.91 min Scan# 4143
 Delta R.T. 0.00 min
 Lab File: VN049782.D
 Acq: 12 Jul 2018 21:02

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

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.3	47.3	141.9
145	27.7	14.4	43.0

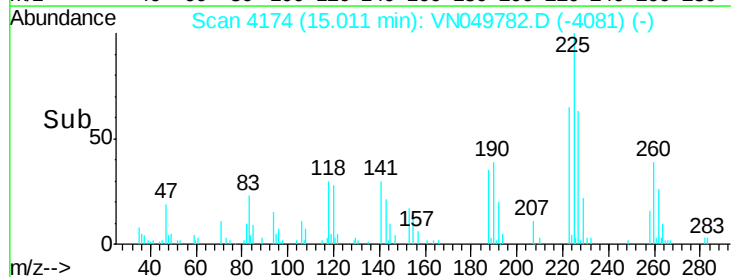
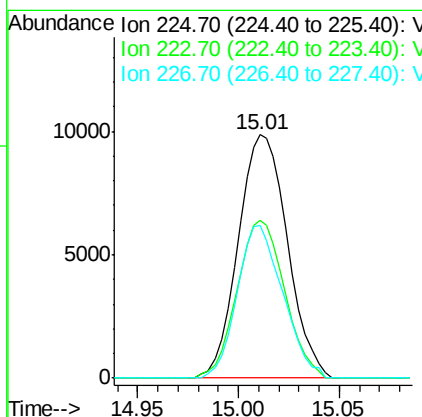
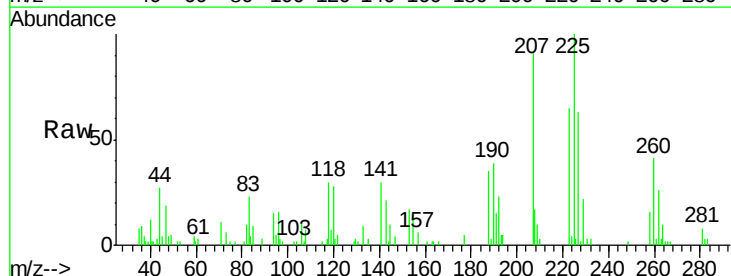
Manual Integrations
 APPROVED

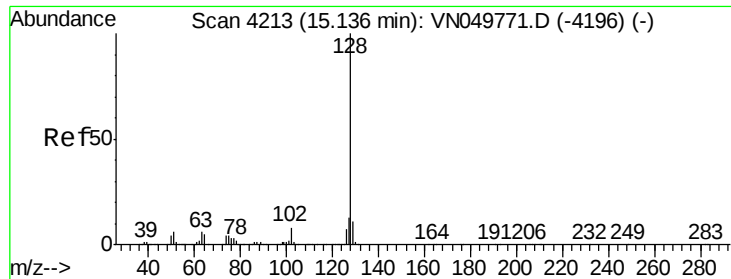
MMDadoda
 7/13/2018 1:35:37 PM



#94
 Hexachlorobutadiene
 Concen: 1.36 ug/l
 RT: 15.01 min Scan# 4174
 Delta R.T. -0.00 min
 Lab File: VN049782.D
 Acq: 12 Jul 2018 21:02

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.7	30.9	92.7
227	58.3	31.8	95.4





#95

Naphthalene

Concen: 5.07 ug/l

RT: 15.14 min Scan# 4213

Delta R.T. 0.00 min

Lab File: VN049782.D

Acq: 12 Jul 2018 21:02

Instrument :

MSVOA_N

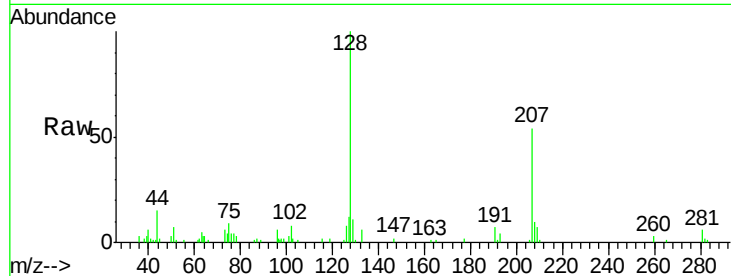
ClientSampleId :

LOQ-WATER-02-QT3-2018

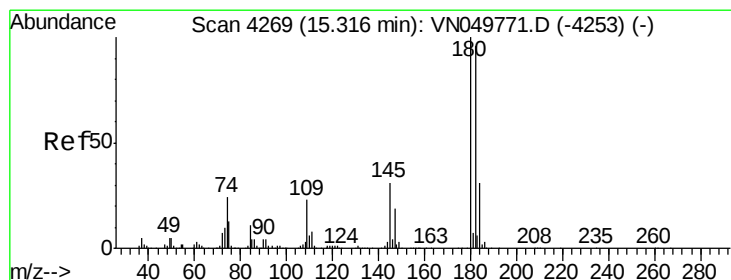
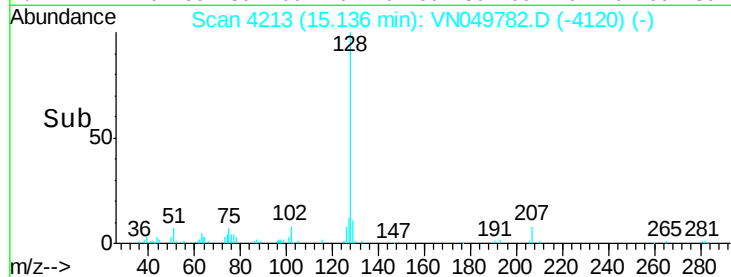
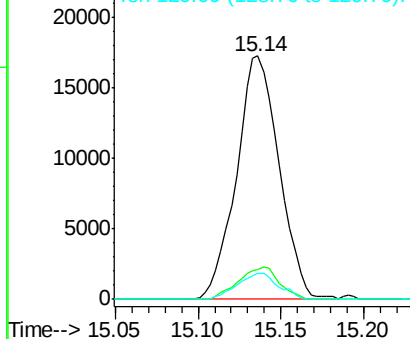
Tot Ion:	128	Resp:	30884
Ion Ratio	Lower	Upper	
128	100		
127	12.7	10.4	15.6
129	10.3	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
7/13/2018 1:35:37 PM



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 1.60 ug/l

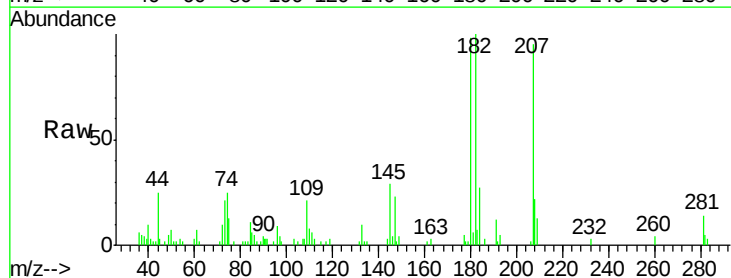
RT: 15.32 min Scan# 4269

Delta R.T. 0.00 min

Lab File: VN049782.D

Acq: 12 Jul 2018 21:02

Tgt Ion:	180	Resp:	17785
Ion Ratio	Lower	Upper	
180	100		
182	98.6	47.4	142.2
145	28.7	15.2	45.6



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.90 (144.60 to 145.60): V

