

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101319\
 Data File : VN058703.D
 Acq On : 11 Oct 2019 15:14
 Operator : JC/SP
 Sample : K5111-08 0.5PPB LOD
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT4-2019

Manual Integrations
 APPROVED

MMDadoda
 10/16/2019 12:48:31 AM

Quant Time: Oct 12 00:31:23 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101319W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 12 00:00:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	431313	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	708725	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	632185	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	270865	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	307729	50.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.92%	
35) Dibromofluoromethane	7.57	113	217344	49.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.30%	
50) Toluene-d8	10.08	98	824758	47.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.22%	
62) 4-Bromofluorobenzene	12.40	95	291170	43.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.88%	

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.84	85	2451	0.456 ug/l	100
3) Chloromethane	2.04	50	3514	0.550 ug/l #	84
4) Vinyl Chloride	2.17	62	3259	0.512 ug/l	98
5) Bromomethane	2.55	94	2910	0.752 ug/l #	79
6) Chloroethane	2.69	64	2361m	0.602 ug/l	
7) Trichlorofluoromethane	3.00	101	3999	0.525 ug/l	85
8) Diethyl Ether	3.40	74	1236	0.439 ug/l	63
9) 1,1,2-Trichlorotrifluoroet	3.74	101	2262	0.521 ug/l #	76
10) Methyl Iodide	3.93	142	2368	0.400 ug/l #	94
11) Tert butyl alcohol	4.76	59	3475m	3.553 ug/l	
12) 1,1-Dichloroethene	3.72	96	2312m	0.558 ug/l	
13) Acrolein	3.59	56	2423	3.081 ug/l #	58
14) Allyl chloride	4.30	41	4649m	0.556 ug/l	
15) Acrylonitrile	4.97	53	5357	2.172 ug/l #	76
16) Acetone	3.80	43	7434	2.974 ug/l #	67
17) Carbon Disulfide	4.03	76	8366	0.632 ug/l	98
18) Methyl Acetate	4.31	43	3622	0.571 ug/l #	73
19) Methyl tert-butyl Ether	5.02	73	7507	0.508 ug/l #	91
20) Methylene Chloride	4.53	84	3257m	0.623 ug/l	
21) trans-1,2-Dichloroethene	5.01	96	2600m	0.561 ug/l	
22) Diisopropyl ether	5.92	45	7004	0.431 ug/l #	60
23) Vinyl Acetate	5.88	43	30546	2.329 ug/l	98
24) 1,1-Dichloroethane	5.82	63	4684	0.506 ug/l #	85
25) 2-Butanone	6.82	43	9588	2.654 ug/l	95
26) 2,2-Dichloropropane	6.80	77	5314	0.629 ug/l #	72
27) cis-1,2-Dichloroethene	6.82	96	3099m	0.574 ug/l	
28) Bromochloromethane	7.17	49	1854	0.576 ug/l #	73
29) Tetrahydrofuran	7.19	42	6135	2.627 ug/l	92
30) Chloroform	7.36	83	5578	0.600 ug/l	96
31) Cyclohexane	7.64	56	14260	1.610 ug/l #	28
32) 1,1,1-Trichloroethane	7.55	97	3968	0.500 ug/l #	53
36) 1,1-Dichloropropene	7.77	75	3605	0.503 ug/l	93
37) Ethyl Acetate	6.92	43	3714	0.512 ug/l #	86
38) Carbon Tetrachloride	7.75	117	3557	0.509 ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.07	83	3557	0.428	ug/l	97
40) Benzene	8.02	78	10142	0.493	ug/l	99
41) Methacrylonitrile	7.15	41	1733	0.511	ug/l #	8
42) 1,2-Dichloroethane	8.11	62	4194	0.530	ug/l	94
43) Isopropyl Acetate	8.15	43	5853	0.474	ug/l #	88
44) Trichloroethene	8.82	130	2616	0.512	ug/l	81
45) 1,2-Dichloropropane	9.11	63	2683	0.487	ug/l	97
46) Dibromomethane	9.20	93	1858	0.532	ug/l	93
47) Bromodichloromethane	9.39	83	3295	0.463	ug/l #	89
48) Methyl methacrylate	9.19	41	2817	0.503	ug/l #	71
49) 1,4-Dioxane	9.19	88	906	10.465	ug/l #	75
51) 4-Methyl-2-Pentanone	9.98	43	15934	2.298	ug/l	94
52) Toluene	10.15	92	6414	0.510	ug/l	96
53) t-1,3-Dichloropropene	10.38	75	3610	0.443	ug/l #	1
54) cis-1,3-Dichloropropene	9.83	75	4100	0.473	ug/l	92
55) 1,1,2-Trichloroethane	10.56	97	3094	0.601	ug/l	92
56) Ethyl methacrylate	10.43	69	2970	0.395	ug/l #	82
57) 1,3-Dichloropropane	10.70	76	4343	0.495	ug/l	89
58) 2-Chloroethyl Vinyl ether	9.69	63	8125	2.240	ug/l	97
59) 2-Hexanone	10.75	43	12776	2.384	ug/l	99
60) Dibromochloromethane	10.90	129	2571	0.484	ug/l	81
61) 1,2-Dibromoethane	11.01	107	2327	0.451	ug/l	98
64) Tetrachloroethene	10.63	164	2838	0.641	ug/l #	83
65) Chlorobenzene	11.43	112	6330	0.493	ug/l	91
66) 1,1,1,2-Tetrachloroethane	11.51	131	2130	0.449	ug/l #	44
67) Ethyl Benzene	11.51	91	11457	0.501	ug/l	94
68) m/p-Xylenes	11.62	106	8009	0.933	ug/l	99
69) o-Xylene	11.95	106	3975	0.478	ug/l	90
70) Styrene	11.97	104	5916	0.434	ug/l	93
71) Bromoform	12.13	173	1315	0.378	ug/l #	99
73) Isopropylbenzene	12.25	105	10296	0.525	ug/l	94
74) N-amyl acetate	12.07	43	3951	0.448	ug/l #	93
75) 1,1,2,2-Tetrachloroethane	12.51	83	3476	0.538	ug/l	99
76) 1,2,3-Trichloropropane	12.56	75	4388m	0.738	ug/l	
77) Bromobenzene	12.53	156	2352	0.493	ug/l	93
78) n-propylbenzene	12.60	91	12717	0.556	ug/l	100
79) 2-Chlorotoluene	12.68	91	8125	0.573	ug/l	98
80) 1,3,5-Trimethylbenzene	12.74	105	8473	0.506	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.30	75	1327m	0.598	ug/l	
82) 4-Chlorotoluene	12.78	91	7243	0.497	ug/l	99
83) tert-Butylbenzene	13.00	119	7677	0.535	ug/l	95
84) 1,2,4-Trimethylbenzene	13.05	105	8516	0.512	ug/l	90
85) sec-Butylbenzene	13.18	105	9173	0.485	ug/l	98
86) p-Isopropyltoluene	13.29	119	8996	0.524	ug/l	97
87) 1,3-Dichlorobenzene	13.29	146	4786	0.544	ug/l	97
88) 1,4-Dichlorobenzene	13.37	146	4878m	0.545	ug/l	
89) n-Butylbenzene	13.62	91	7404	0.466	ug/l	96
90) Hexachloroethane	13.88	117	1734	0.564	ug/l	89
91) 1,2-Dichlorobenzene	13.66	146	4481	0.522	ug/l	95
92) 1,2-Dibromo-3-Chloropropan	14.28	75	1446	0.958	ug/l #	44

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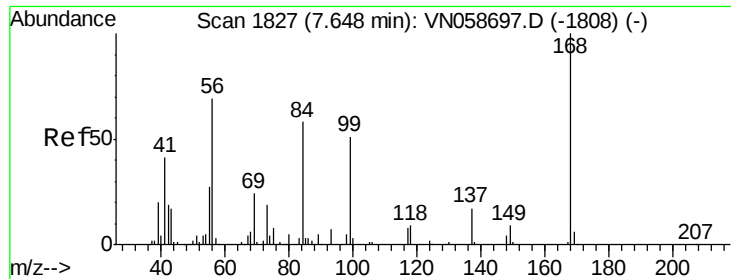
Manual Integrations
APPROVED

MMDadoda
10/16/2019 12:48:31 AM

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.92	180	2881	0.551	ug/l	94
94) Hexachlorobutadiene	15.02	225	1333	0.484	ug/l	88
95) Naphthalene	15.13	128	8347	0.555	ug/l	100
96) 1,2,3-Trichlorobenzene	15.31	180	2805	0.549	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.00 min

Lab File: VN058703.D

Acq: 11 Oct 2019 15:14

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion:168 Resp: 431313

Ion Ratio Lower Upper

168 100

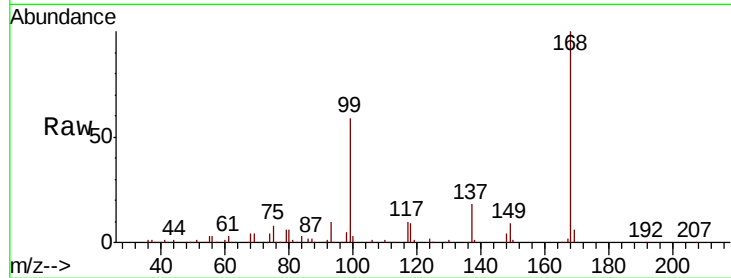
99 58.7 47.5 71.3

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

200000

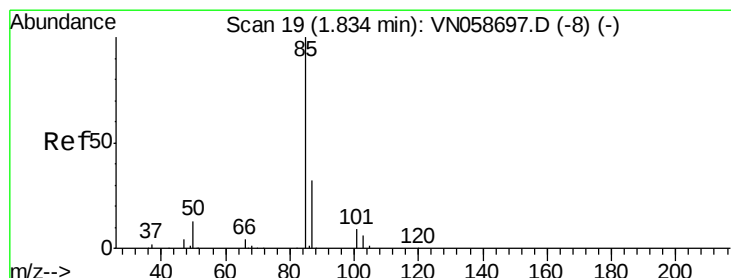
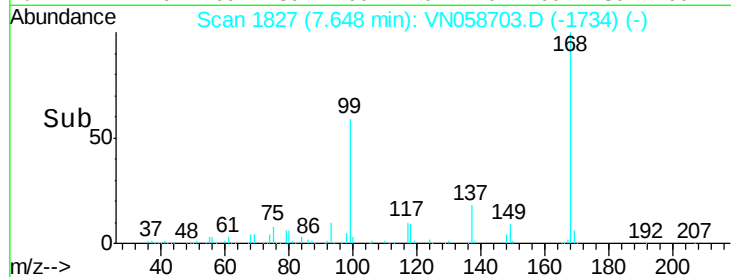
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.456 ug/l

RT: 1.84 min Scan# 20

Delta R.T. 0.00 min

Lab File: VN058703.D

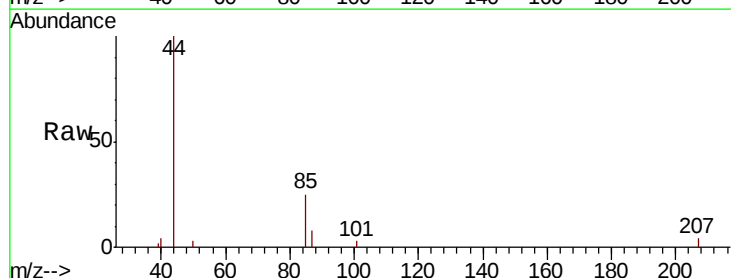
Acq: 11 Oct 2019 15:14

Tgt Ion: 85 Resp: 2451

Ion Ratio Lower Upper

85 100

87 32.2 16.2 48.6



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.84

2000

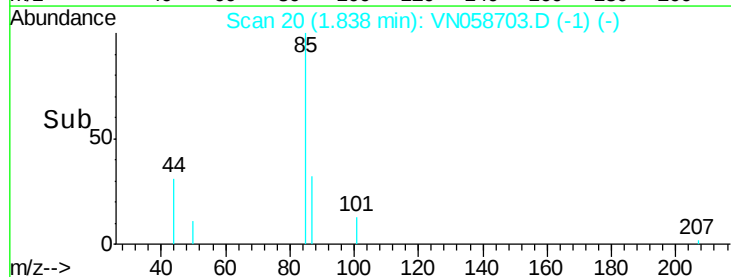
1500

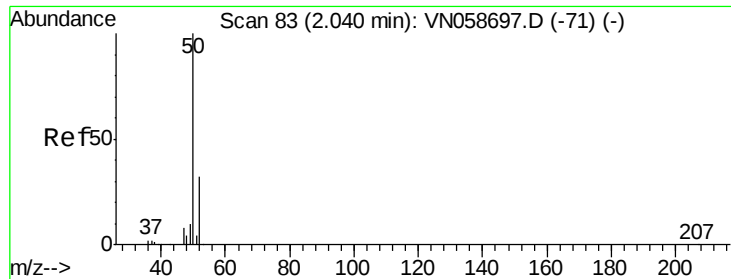
1000

500

0

Time-->





#3

Chloromethane

Concen: 0.550 ug/l

RT: 2.04 min Scan# 83

Delta R.T. 0.00 min

Lab File: VN058703.D

Acq: 11 Oct 2019 15:14

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion: 50 Resp: 3514

Ion Ratio Lower Upper

50 100

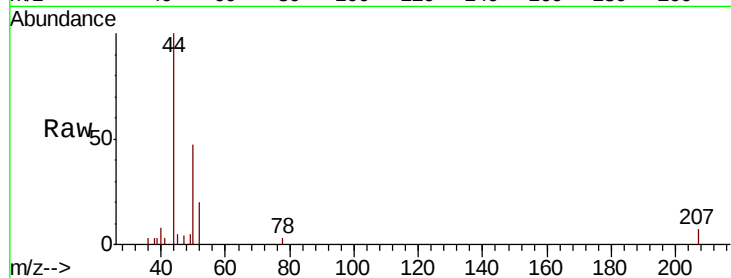
52 41.4 25.8 38.6#

Manual Integrations

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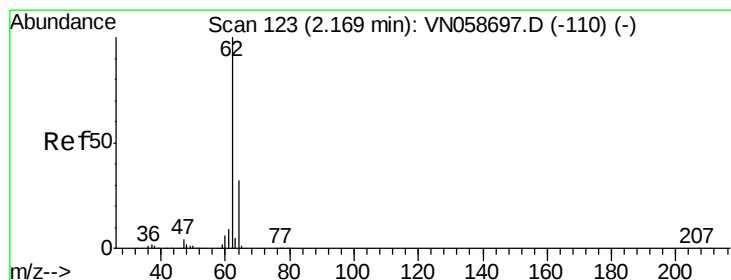
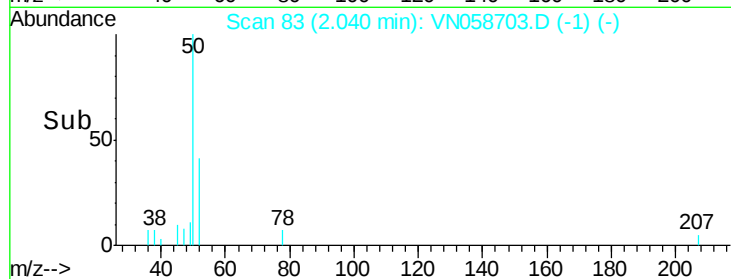
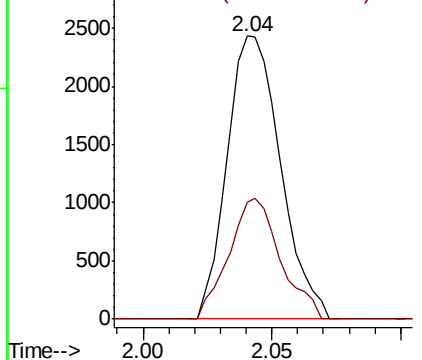
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Abundance Ion 49.90 (49.60 to 50.60): VNC

Ion 51.90 (51.60 to 52.60): VNC



#4

Vinyl Chloride

Concen: 0.512 ug/l

RT: 2.17 min Scan# 123

Delta R.T. 0.00 min

Lab File: VN058703.D

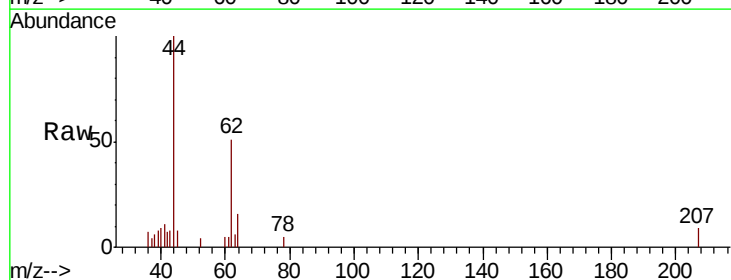
Acq: 11 Oct 2019 15:14

Tgt Ion: 62 Resp: 3259

Ion Ratio Lower Upper

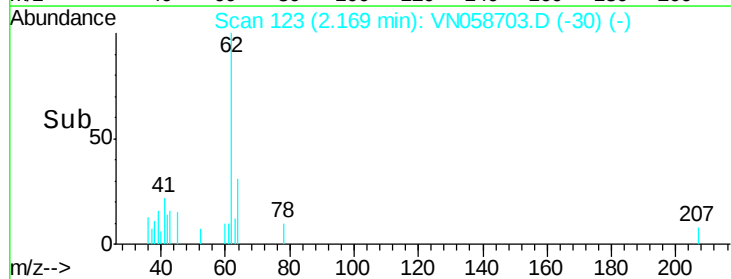
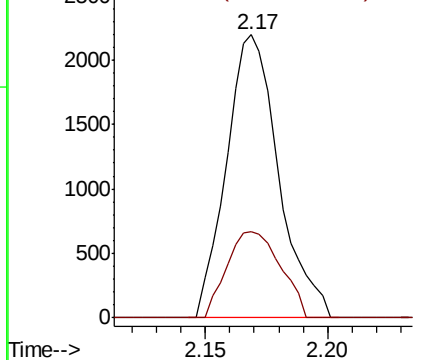
62 100

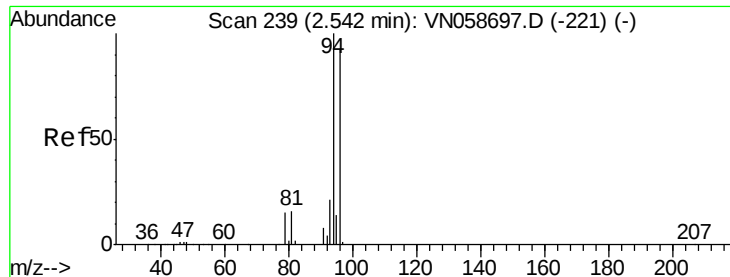
64 30.7 25.3 37.9



Abundance Ion 61.90 (61.60 to 62.60): VNC

Ion 63.90 (63.60 to 64.60): VNC





#5

Bromomethane

Concen: 0.752 ug/l

RT: 2.55 min Scan# 242

Delta R.T. 0.01 min

Lab File: VN058703.D

Acq: 11 Oct 2019 15:14

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion: 94 Resp: 2910

Ion Ratio Lower Upper

94 100

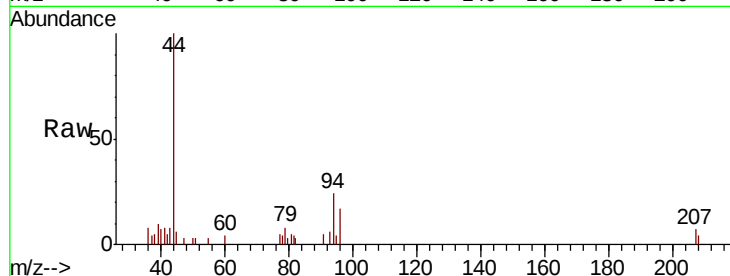
96 72.8 74.5 111.7#

Manual Integrations

APPROVED

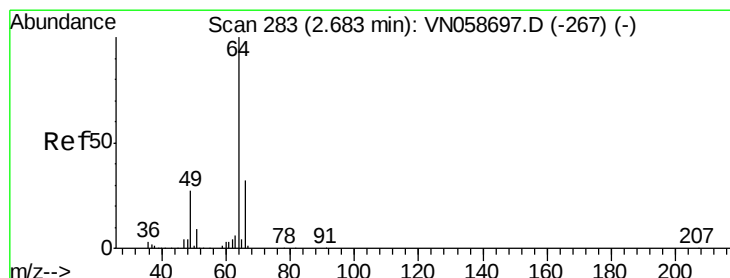
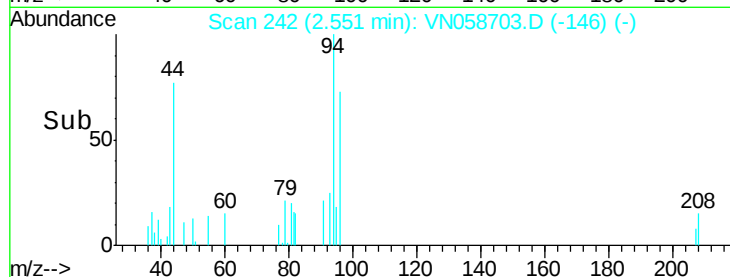
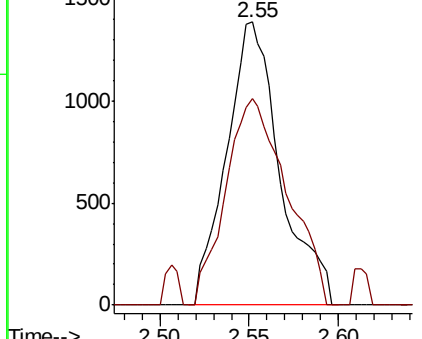
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Abundance Ion 93.90 (93.60 to 94.60): VNC

Ion 95.90 (95.60 to 96.60): VNC



#6

Chloroethane

Concen: 0.602 ug/l m

RT: 2.69 min Scan# 284

Delta R.T. 0.00 min

Lab File: VN058703.D

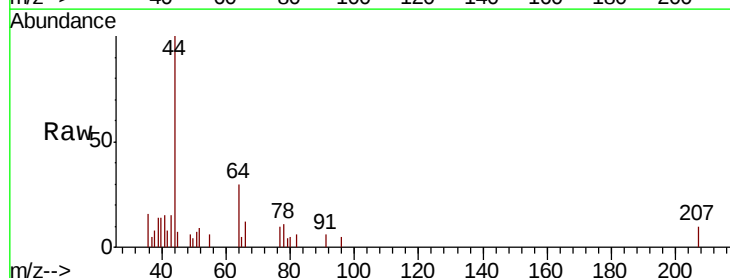
Acq: 11 Oct 2019 15:14

Tgt Ion: 64 Resp: 2361

Ion Ratio Lower Upper

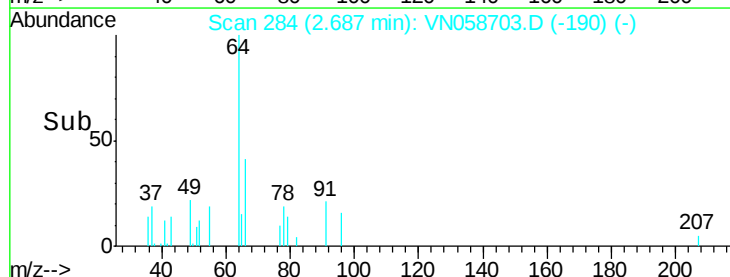
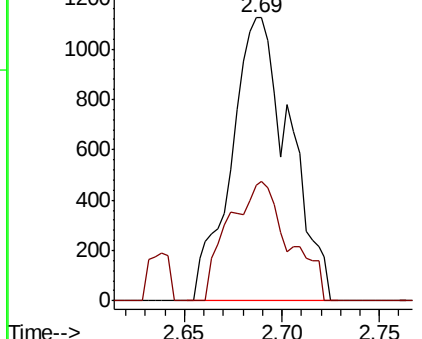
64 100

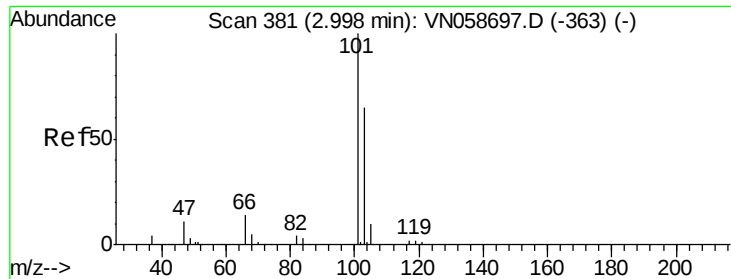
66 41.0 25.4 38.2#



Abundance Ion 63.90 (63.60 to 64.60): VNC

Ion 65.90 (65.60 to 66.60): VNC





#7

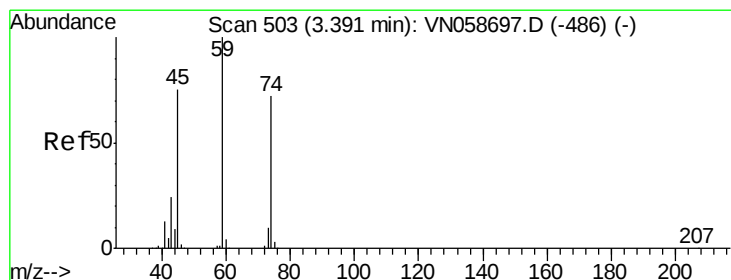
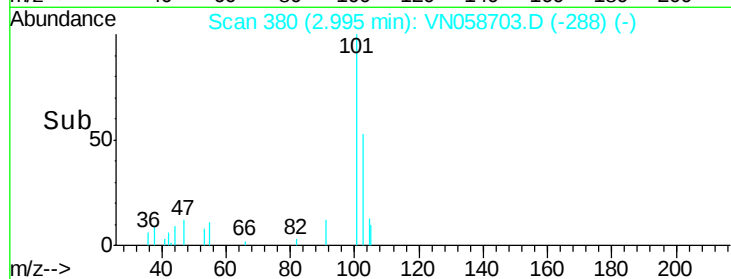
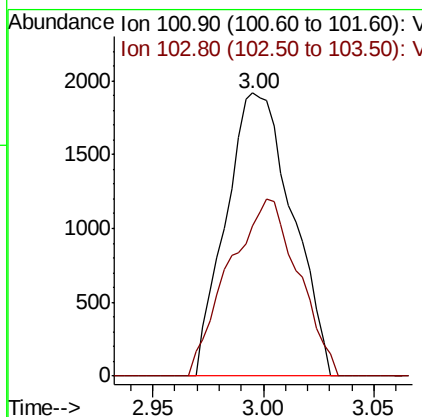
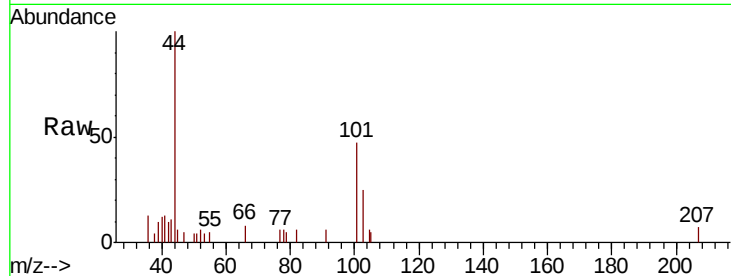
Trichlorofluoromethane
Concen: 0.525 ug/l
RT: 3.00 min Scan# 380
Delta R.T. -0.00 min
Lab File: VN058703.D
Acq: 11 Oct 2019 15:14

Instrument :
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ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
101	100		
103	52.8	51.8	77.6

Manual Integrations
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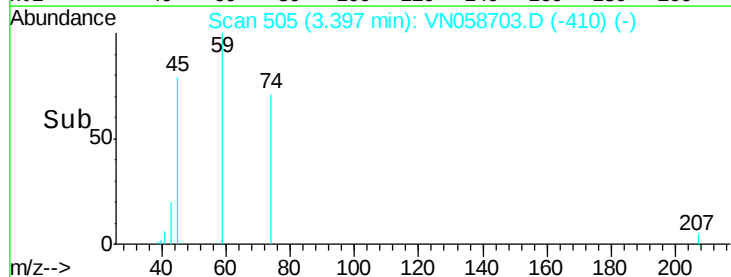
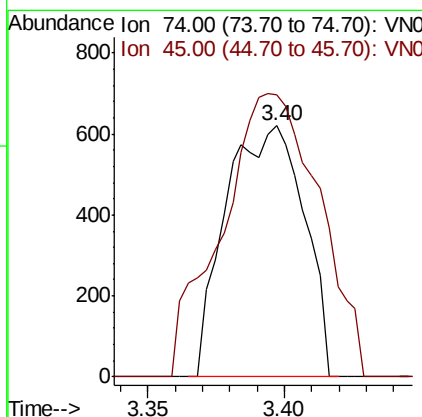
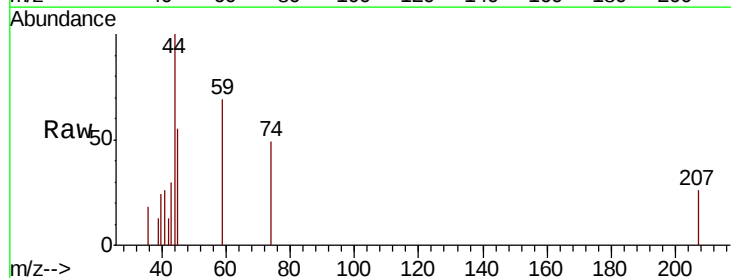
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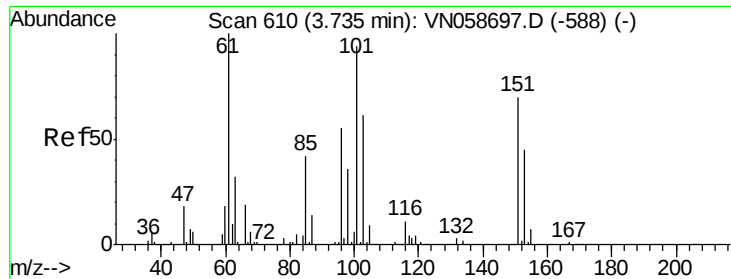


#8

Diethyl Ether
Concen: 0.439 ug/l
RT: 3.40 min Scan# 505
Delta R.T. 0.01 min
Lab File: VN058703.D
Acq: 11 Oct 2019 15:14

Tgt Ion	Ratio	Lower	Upper
74	100		
45	140.8	51.3	154.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.521 ug/l

RT: 3.74 min Scan# 612

Delta R.T. 0.01 min

Lab File: VN058703.D

Acq: 11 Oct 2019 15:14

Instrument :

MSVOA_N

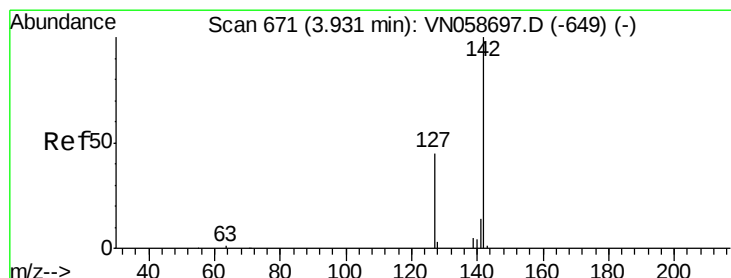
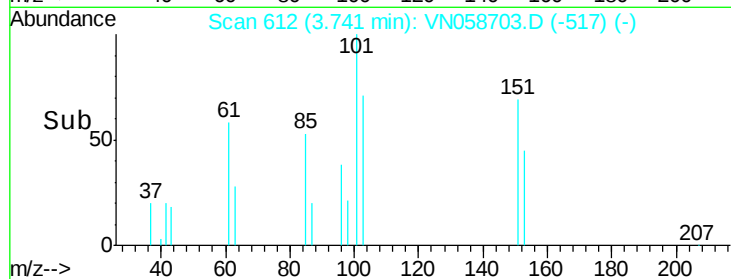
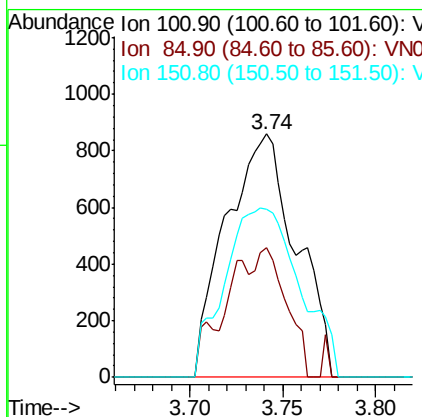
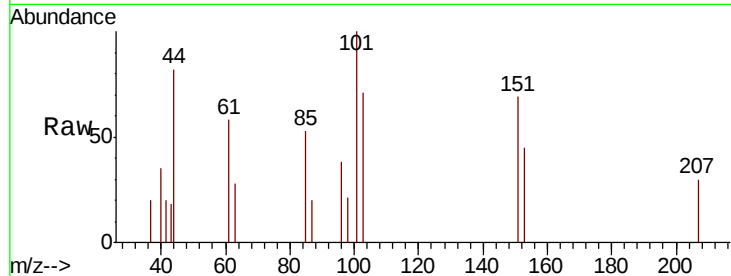
ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion:	101	Resp:	2262
Ion Ratio	Lower	Upper	
101	100		
85	7.8	37.0	55.6#
151	74.7	61.8	92.6

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#10

Methyl Iodide

Concen: 0.400 ug/l

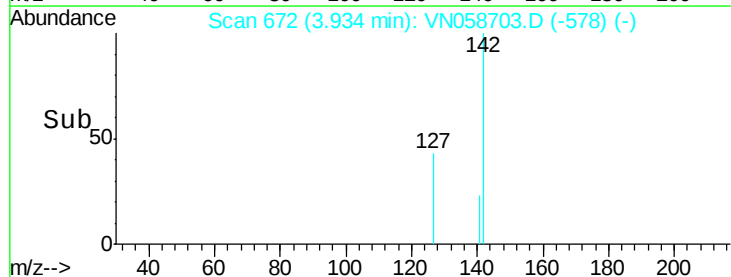
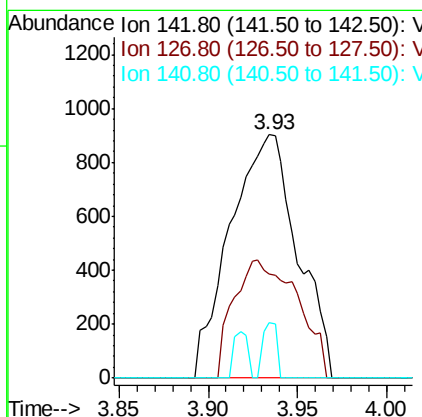
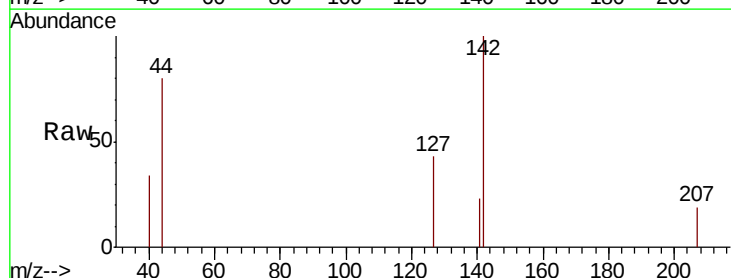
RT: 3.93 min Scan# 672

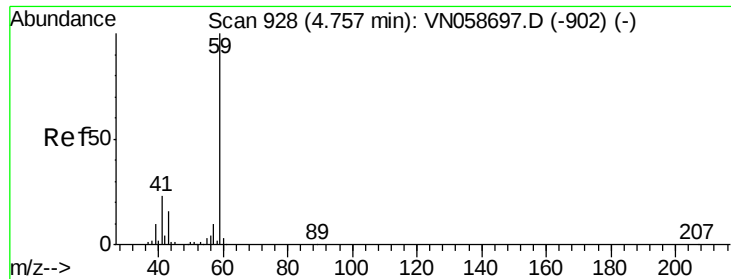
Delta R.T. 0.00 min

Lab File: VN058703.D

Acq: 11 Oct 2019 15:14

Tgt Ion:	142	Resp:	2368
Ion Ratio	Lower	Upper	
142	100		
127	45.9	36.4	54.6
141	4.7	11.1	16.7#





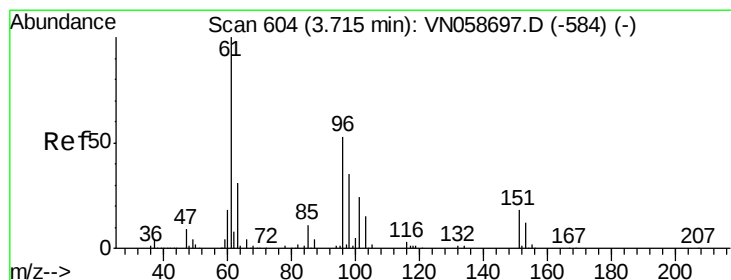
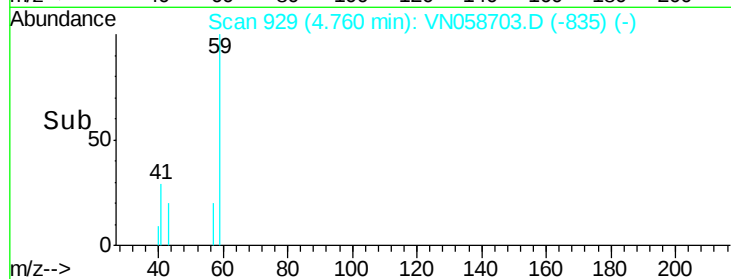
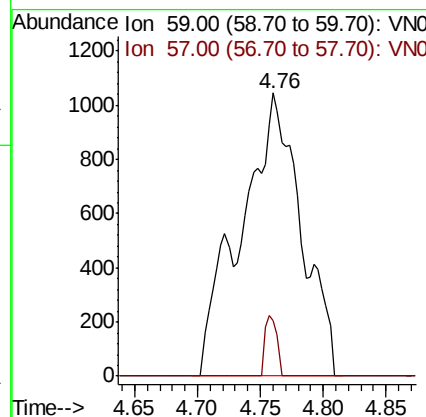
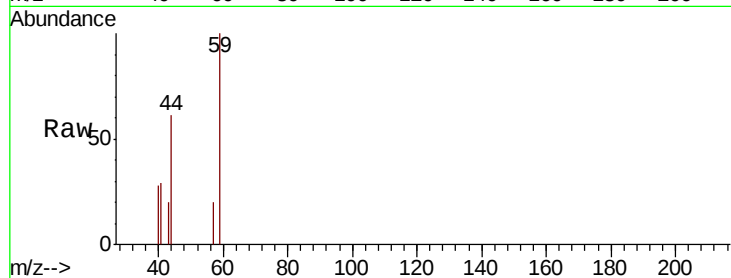
#11
Tert butyl alcohol
Concen: 3.553 ug/l m
RT: 4.76 min Scan# 929
Delta R.T. 0.00 min
Lab File: VN058703.D
Acq: 11 Oct 2019 15:14

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion: 59 Resp: 3475
Ion Ratio Lower Upper
59 100
57 4.2 8.4 12.6#

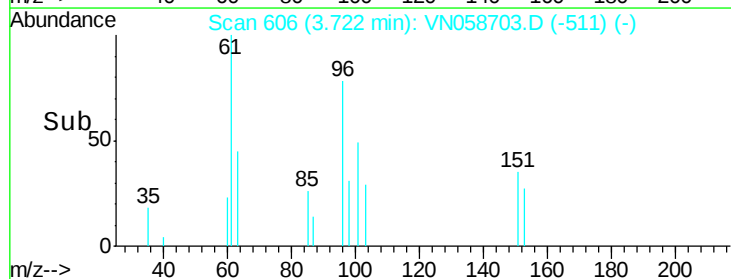
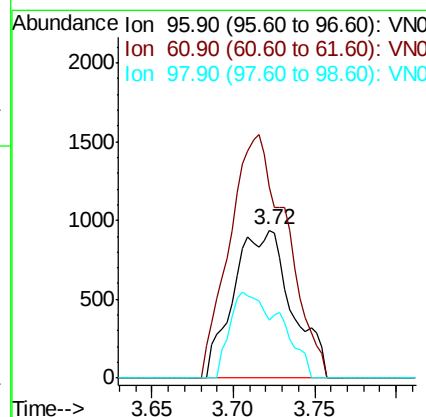
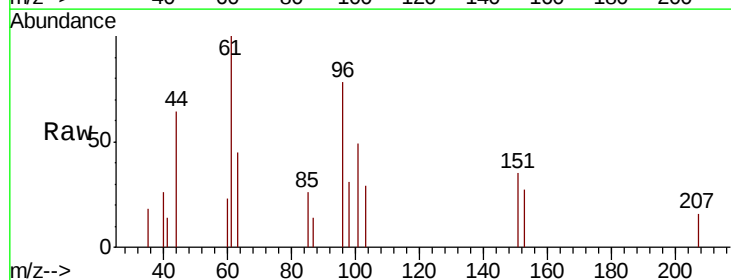
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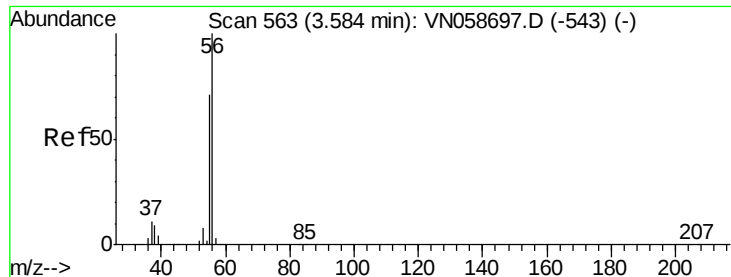
MMDadoda
10/16/2019 12:48:31 AM



#12
1,1-Dichloroethene
Concen: 0.558 ug/l m
RT: 3.72 min Scan# 606
Delta R.T. 0.01 min
Lab File: VN058703.D
Acq: 11 Oct 2019 15:14

Tgt Ion: 96 Resp: 2312
Ion Ratio Lower Upper
96 100
61 128.7 151.3 226.9#
98 39.6 52.6 78.8#





#13

Acrolein

Concen: 3.081 ug/l

RT: 3.59 min Scan# 564

Delta R.T. 0.00 min

Lab File: VN058703.D

Acq: 11 Oct 2019 15:14

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion: 56 Resp: 2423

Ion Ratio Lower Upper

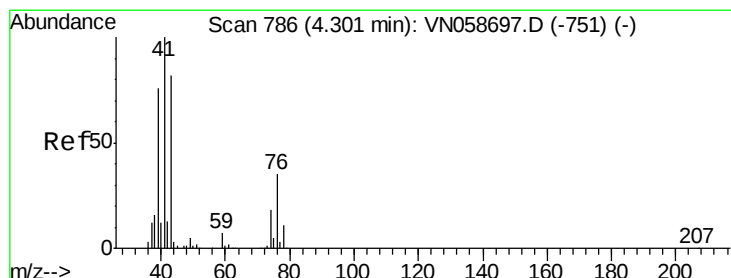
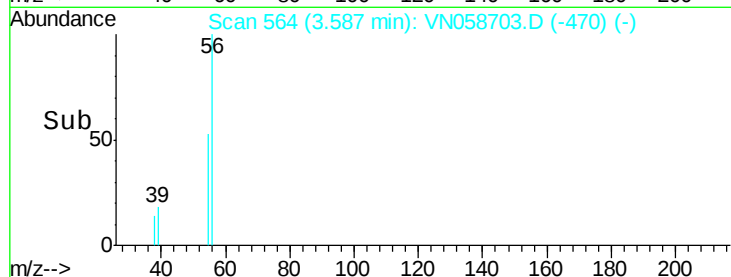
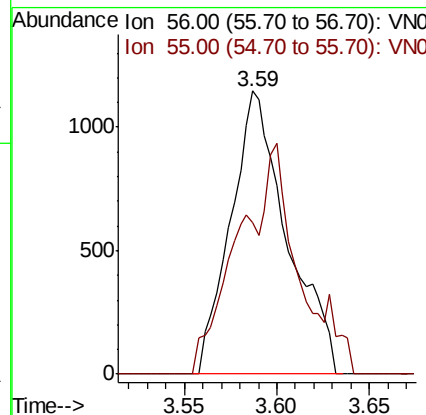
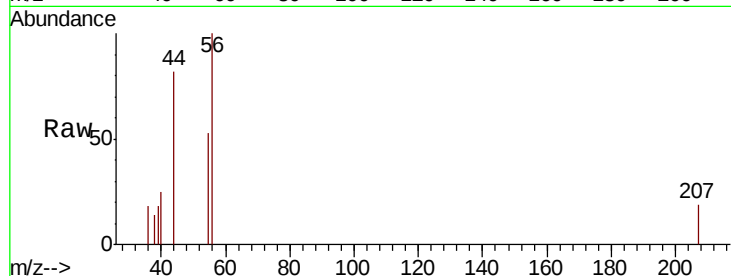
56 100

55 36.5 56.7 85.1#

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#14

Allyl chloride

Concen: 0.556 ug/l m

RT: 4.30 min Scan# 787

Delta R.T. 0.00 min

Lab File: VN058703.D

Acq: 11 Oct 2019 15:14

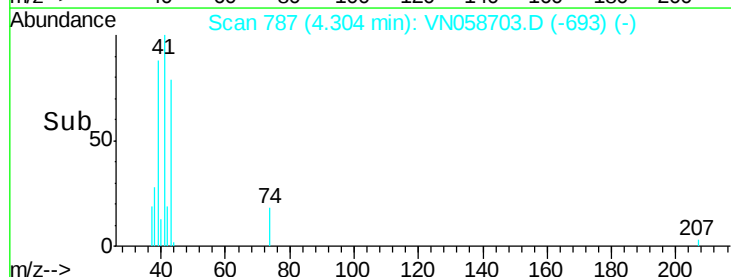
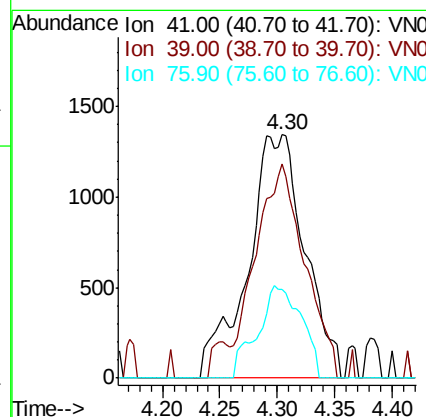
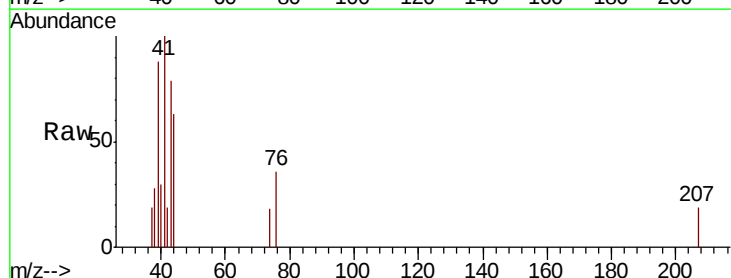
Tgt Ion: 41 Resp: 4649

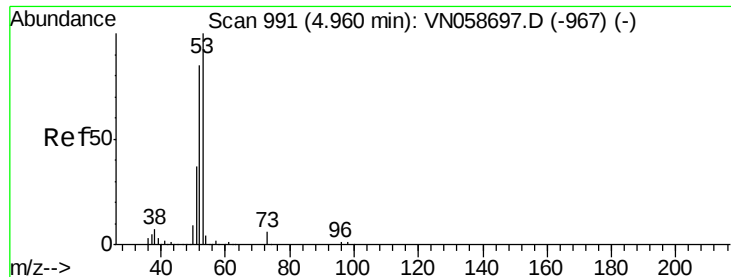
Ion Ratio Lower Upper

41 100

39 75.7 57.2 85.8

76 28.8 25.0 37.6





#15

Acrylonitrile

Concen: 2.172 ug/l

RT: 4.97 min Scan# 994

Delta R.T. 0.01 min

Lab File: VN058703.D

Acq: 11 Oct 2019 15:14

Instrument :

MSVOA_N

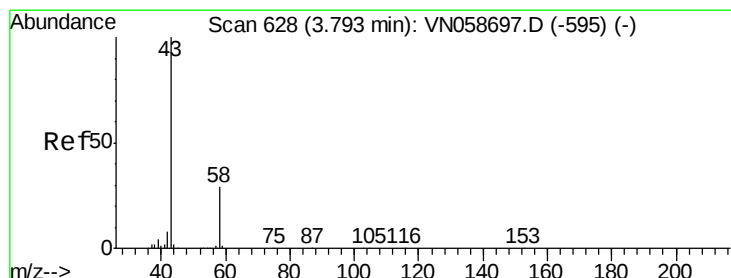
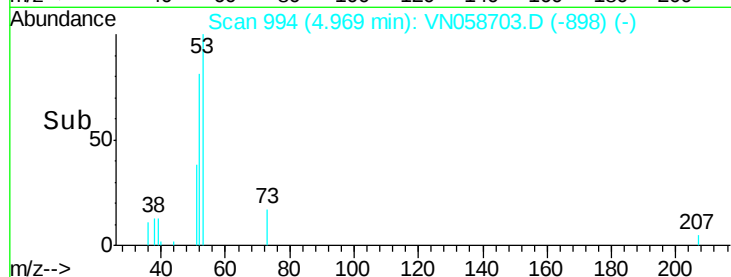
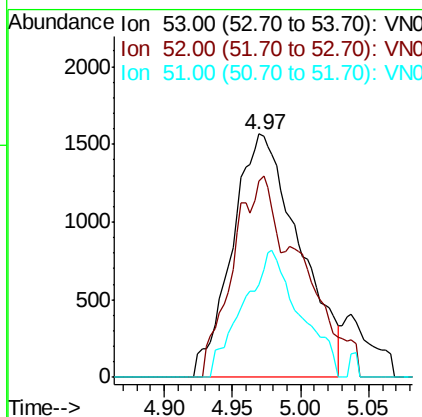
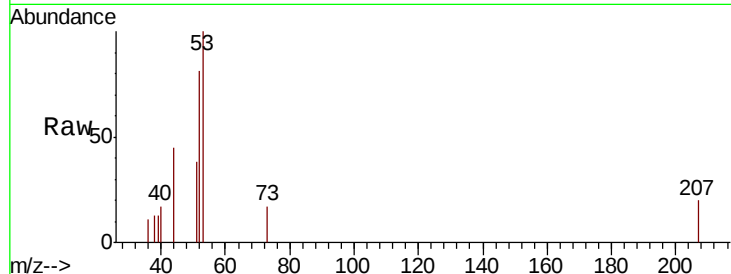
ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion:	53	Resp:	5357
Ion	Ratio	Lower	Upper
53	100		
52	56.6	66.2	99.2#
51	43.9	29.4	44.2

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#16

Acetone

Concen: 2.974 ug/l

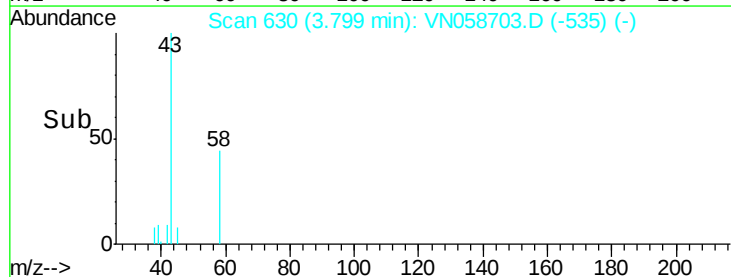
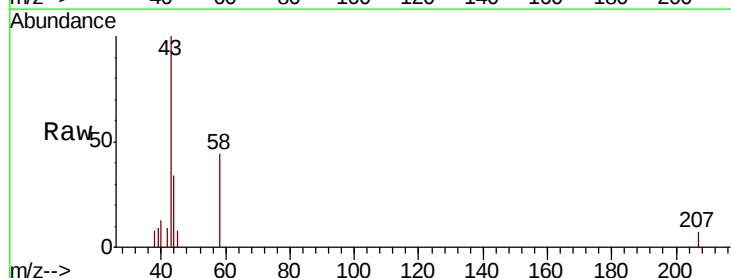
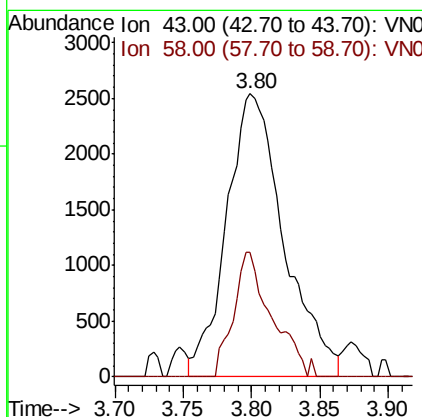
RT: 3.80 min Scan# 630

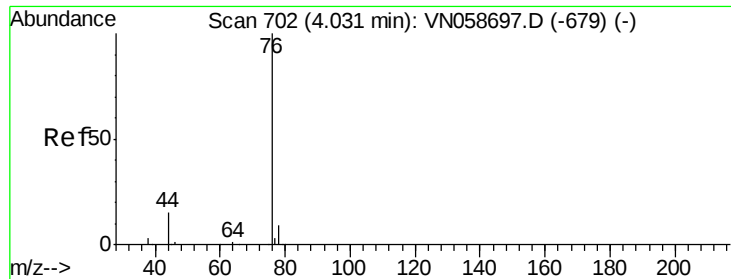
Delta R.T. 0.01 min

Lab File: VN058703.D

Acq: 11 Oct 2019 15:14

Tgt Ion:	43	Resp:	7434
Ion	Ratio	Lower	Upper
43	100		
58	46.8	23.3	34.9#





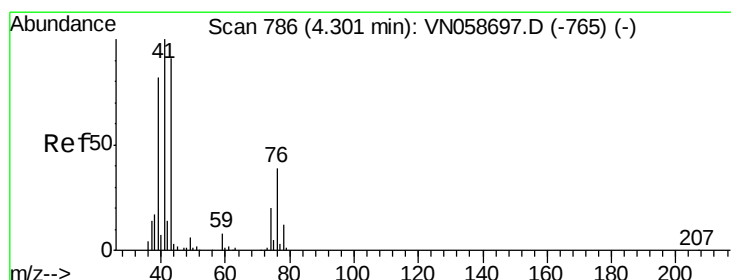
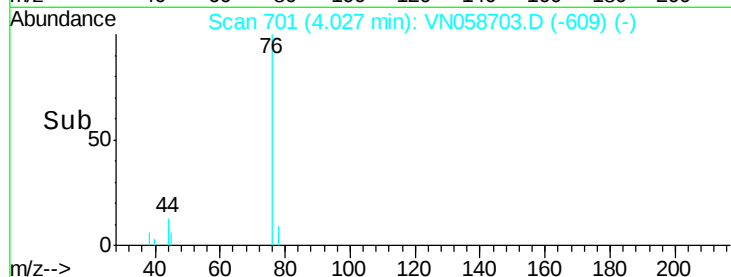
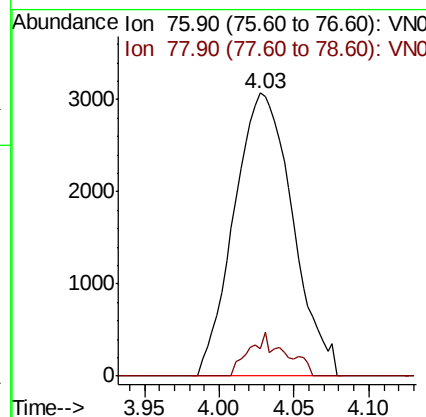
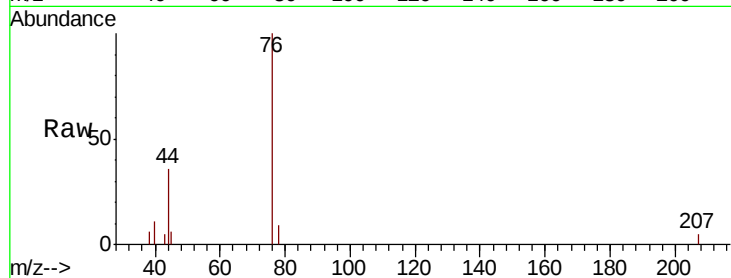
#17
Carbon Disulfide
Concen: 0.632 ug/l
RT: 4.03 min Scan# 701
Delta R.T. -0.00 min
Lab File: VN058703.D
Acq: 11 Oct 2019 15:14

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion: 76 Resp: 8366
Ion Ratio Lower Upper
76 100
78 9.5 7.1 10.7

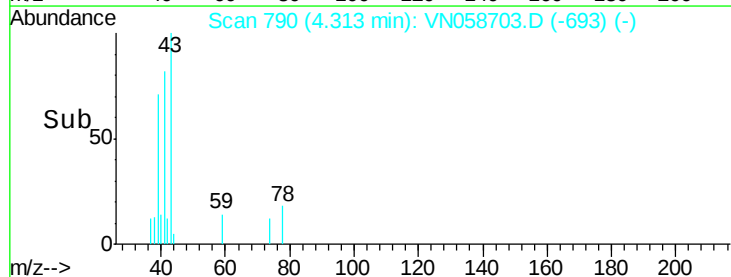
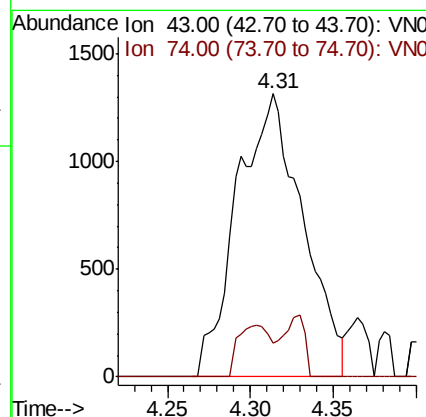
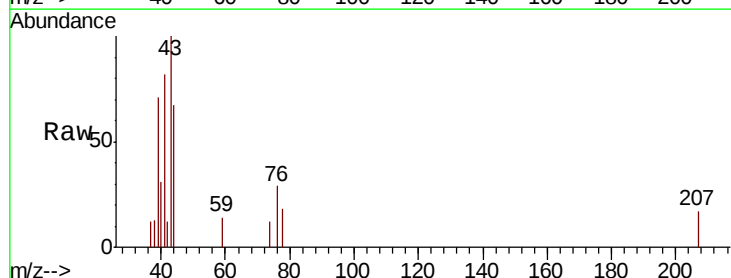
Manual Integrations
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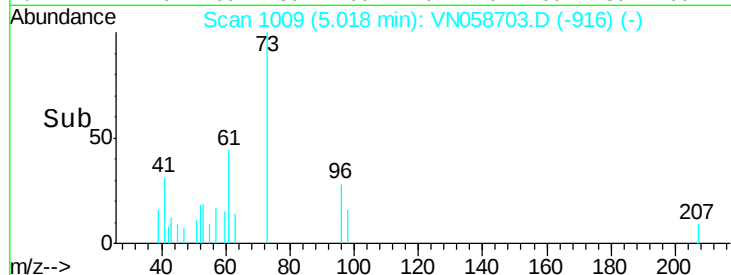
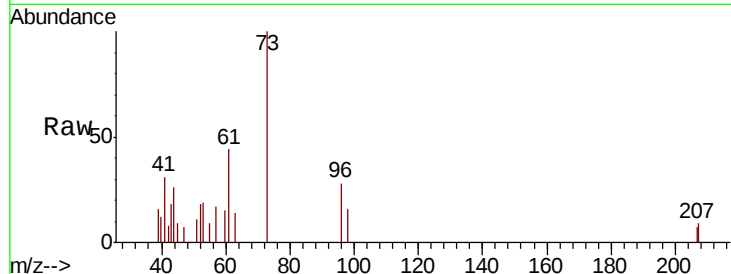
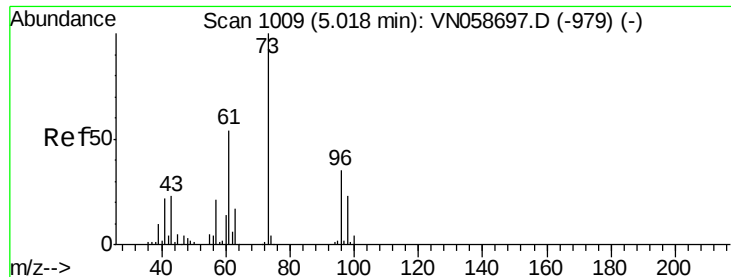
MMDadoda
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#18
Methyl Acetate
Concen: 0.571 ug/l
RT: 4.31 min Scan# 790
Delta R.T. 0.01 min
Lab File: VN058703.D
Acq: 11 Oct 2019 15:14

Tgt Ion: 43 Resp: 3622
Ion Ratio Lower Upper
43 100
74 8.9 17.2 25.8#





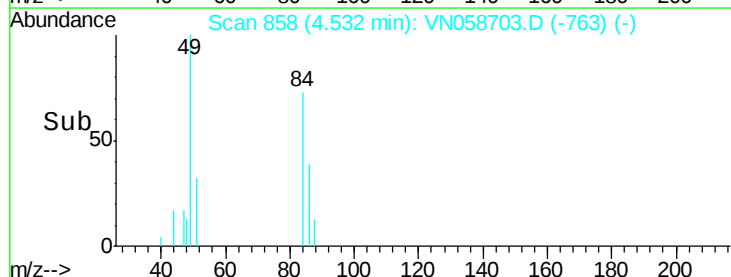
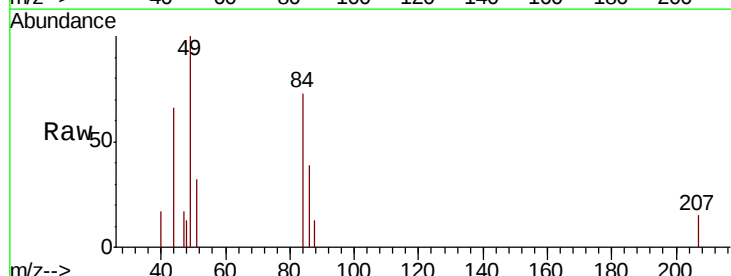
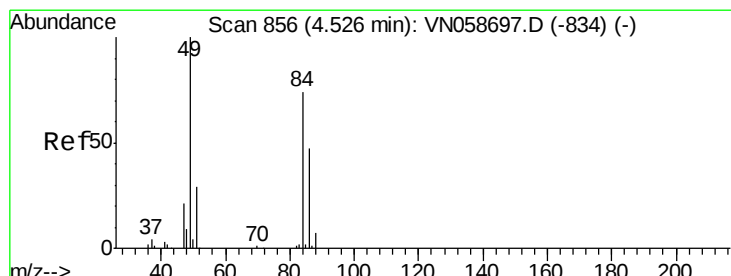
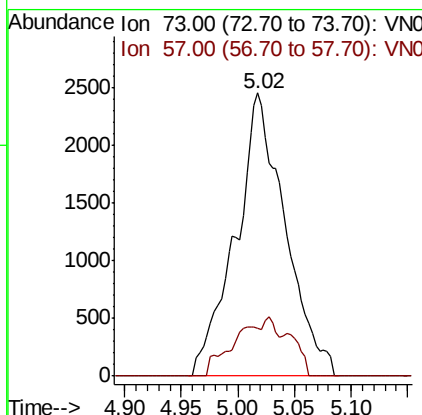
#19
Methvl tert-butvl Ether
Concen: 0.508 ug/l
RT: 5.02 min Scan# 1009
Delta R.T. 0.00 min
Lab File: VN058703.D
Acq: 11 Oct 2019 15:14

Tot Ion: 73 Resp: 7507
Ion Ratio Lower Upper
73 100
57 17.0 17.0 25.6#

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2019

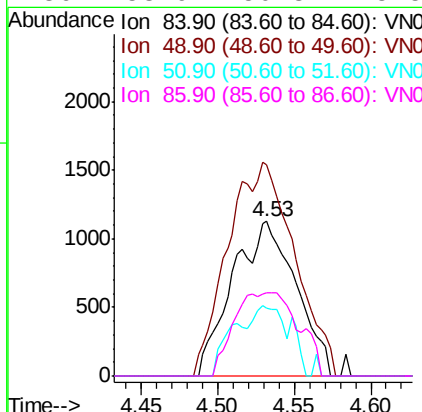
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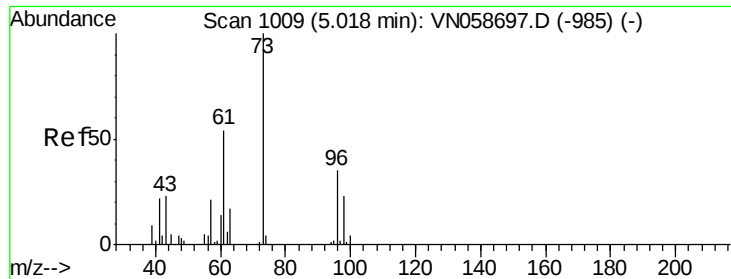
MMDadoda
10/16/2019 12:48:31 AM



#20
Methylene Chloride
Concen: 0.623 ug/l m
RT: 4.53 min Scan# 858
Delta R.T. 0.01 min
Lab File: VN058703.D
Acq: 11 Oct 2019 15:14

Tgt Ion: 84 Resp: 3257
Ion Ratio Lower Upper
84 100
49 136.8 107.6 161.4
51 44.0 31.4 47.0
86 53.9 50.3 75.5





#21

trans-1,2-Dichloroethene

Concen: 0.561 ug/l m

RT: 5.01 min Scan# 1006

Delta R.T. -0.01 min

Lab File: VN058703.D

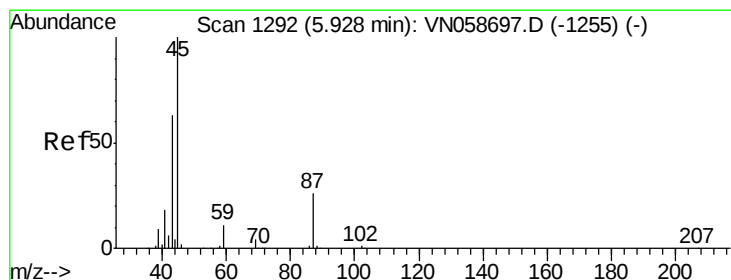
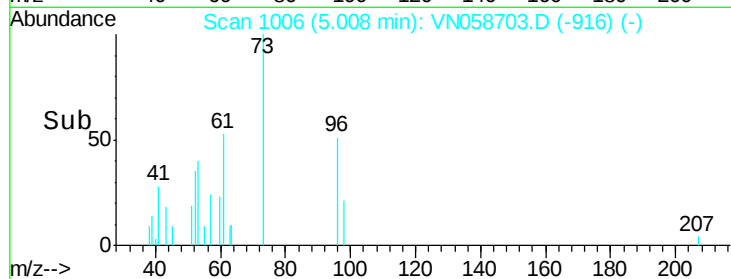
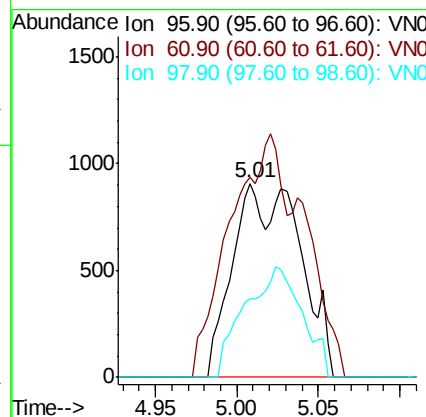
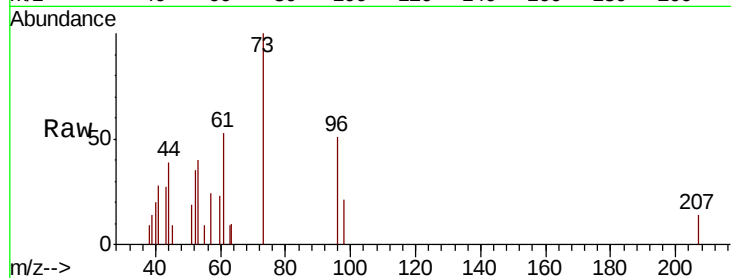
Acq: 11 Oct 2019 15:14

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
96	100		
61	103.3	123.6	185.4#
98	40.6	52.1	78.1#

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#22

Diisopropyl ether

Concen: 0.431 ug/l

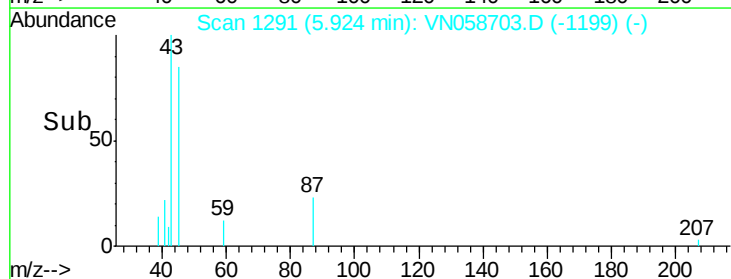
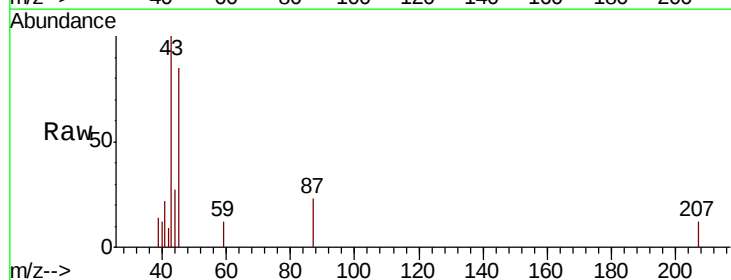
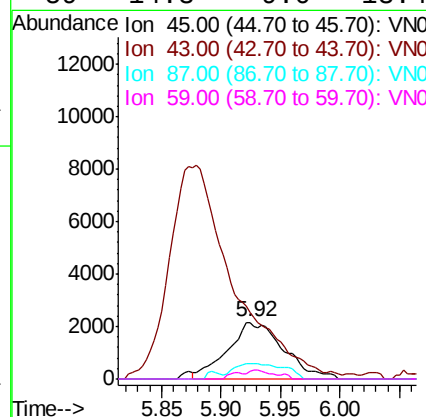
RT: 5.92 min Scan# 1291

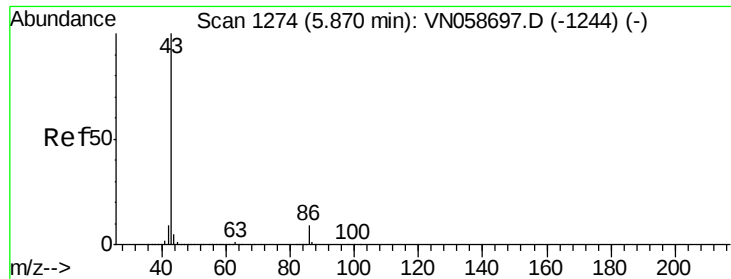
Delta R.T. -0.00 min

Lab File: VN058703.D

Acq: 11 Oct 2019 15:14

Tgt Ion	Ratio	Lower	Upper
45	100		
43	111.0	50.6	75.8#
87	26.6	21.1	31.7
59	14.3	9.0	13.4#





#23

Vinyl Acetate

Concen: 2.329 ug/l

RT: 5.88 min Scan# 1277

Delta R.T. 0.01 min

Lab File: VN058703.D

Acq: 11 Oct 2019 15:14

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion: 43 Resp: 30546

Ion Ratio Lower Upper

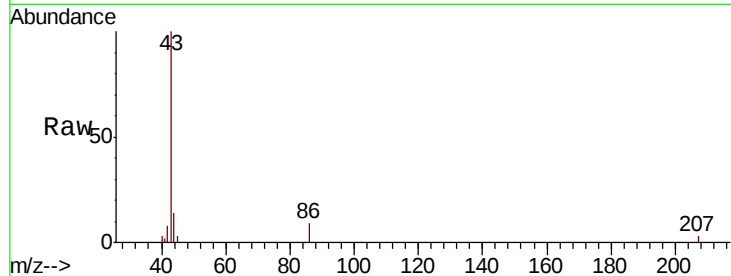
43 100

86 8.6 7.4 11.0

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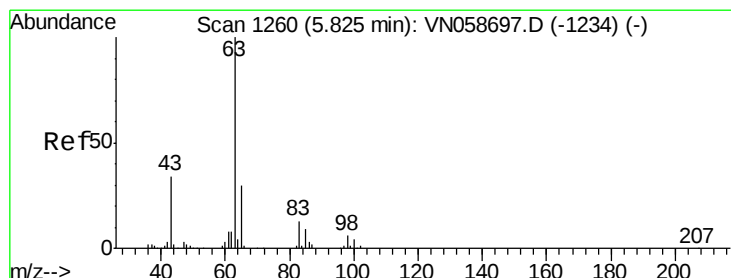
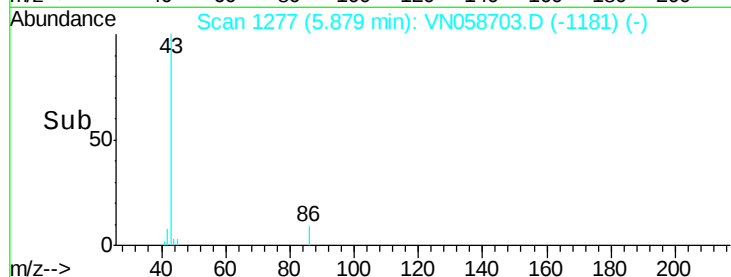
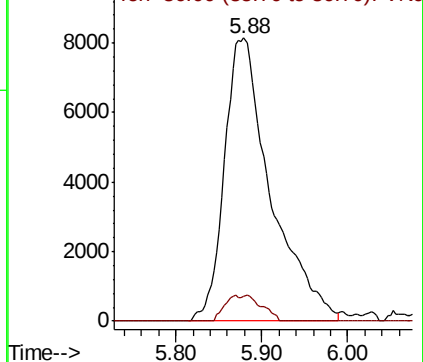
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#24

1,1-Dichloroethane

Concen: 0.506 ug/l

RT: 5.82 min Scan# 1257

Delta R.T. -0.01 min

Lab File: VN058703.D

Acq: 11 Oct 2019 15:14

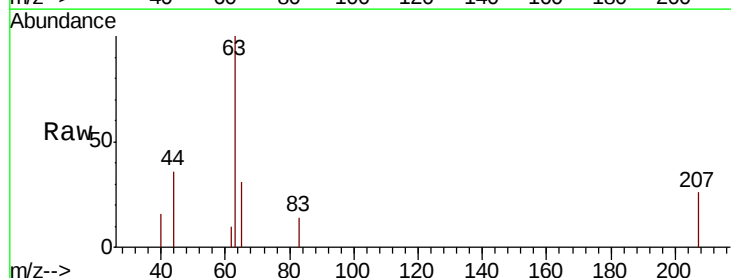
Tgt Ion: 63 Resp: 4684

Ion Ratio Lower Upper

63 100

98 0.0 2.9 8.6#

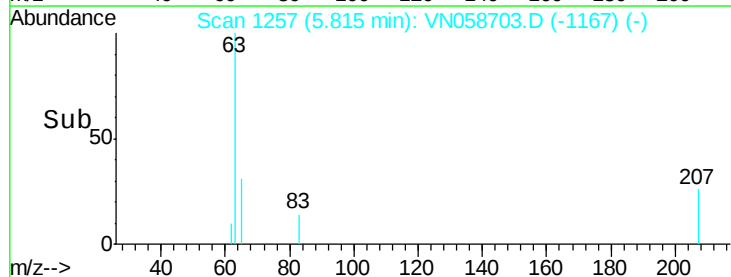
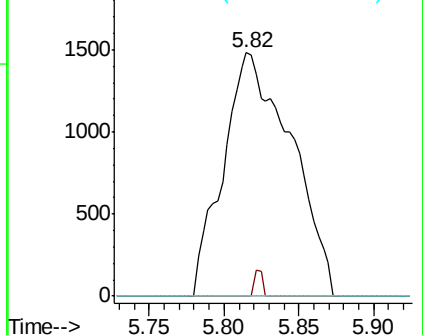
100 0.0 1.8 5.5#

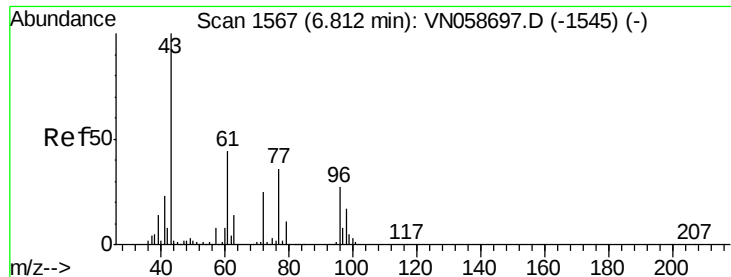


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





#25

2-Butanone

Concen: 2.654 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. 0.01 min

Lab File: VN058703.D

Acq: 11 Oct 2019 15:14

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion: 43 Resp: 9588

Ion Ratio Lower Upper

43 100

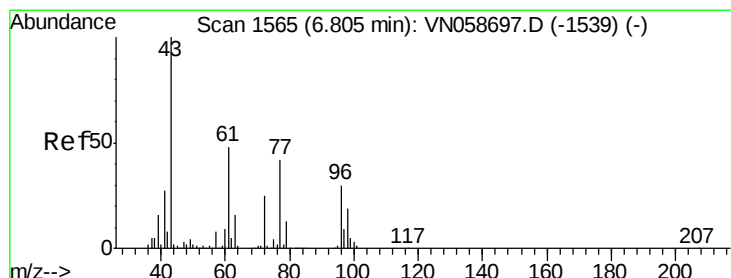
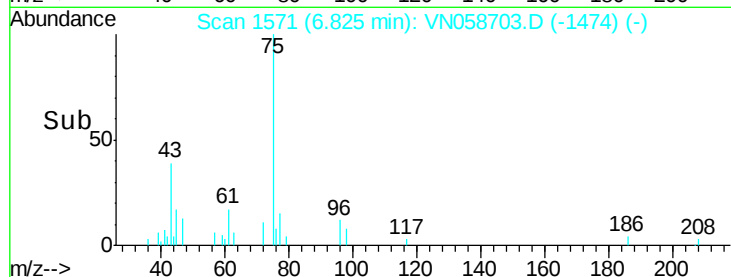
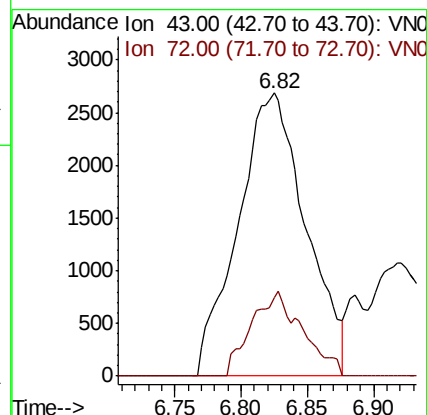
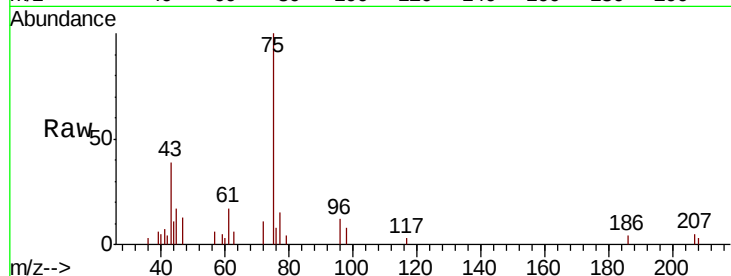
72 27.9 20.2 30.2

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#26

2,2-Dichloropropane

Concen: 0.629 ug/l

RT: 6.80 min Scan# 1563

Delta R.T. -0.01 min

Lab File: VN058703.D

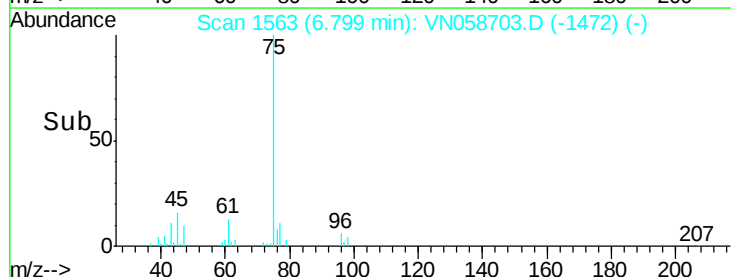
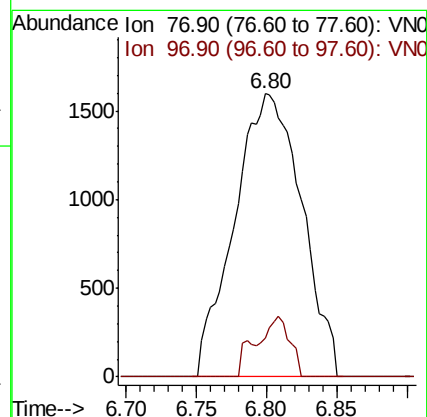
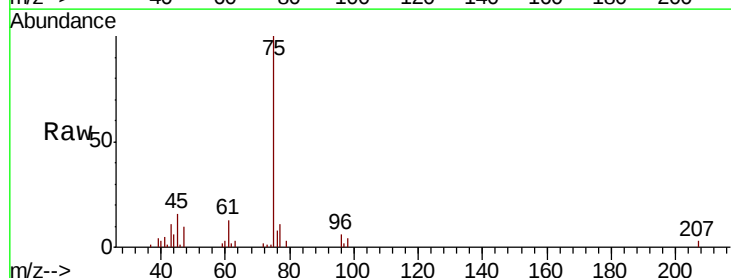
Acq: 11 Oct 2019 15:14

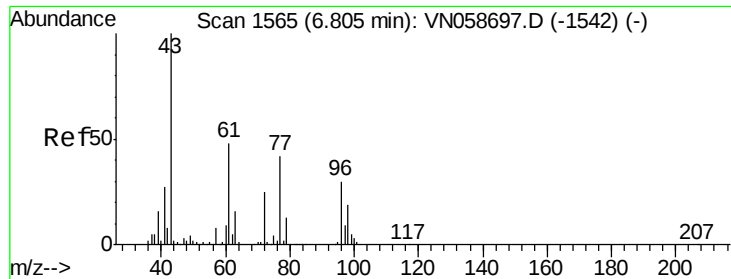
Tgt Ion: 77 Resp: 5314

Ion Ratio Lower Upper

77 100

97 8.0 10.7 31.9#





#27

cis-1,2-Dichloroethene

Concen: 0.574 ug/l m

RT: 6.82 min Scan# 1569

Delta R.T. 0.01 min

Lab File: VN058703.D

Acq: 11 Oct 2019 15:14

Instrument :

MSVOA_N

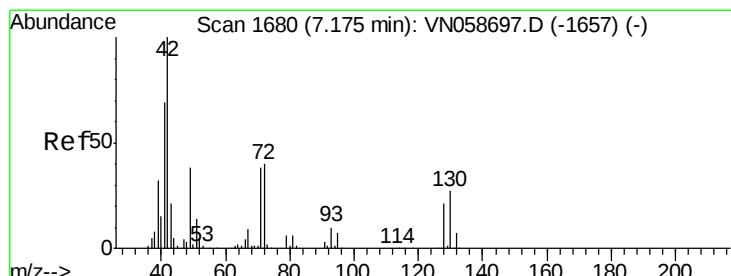
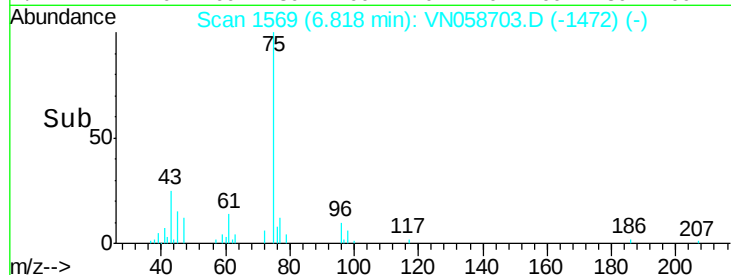
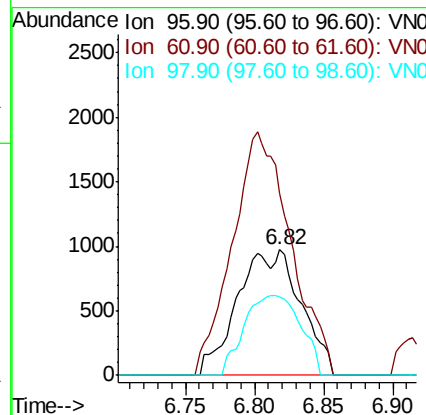
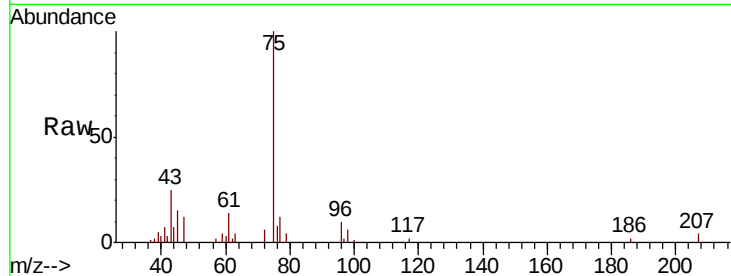
ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion:	96	Resp:	3099
Ion	Ratio	Lower	Upper
96	100		
61	178.6	0.0	324.8
98	56.2	0.0	129.2

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#28

Bromochloromethane

Concen: 0.576 ug/l

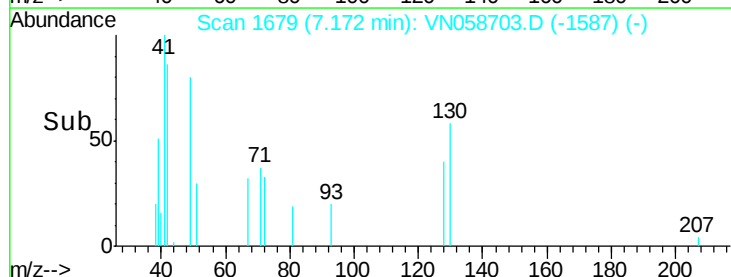
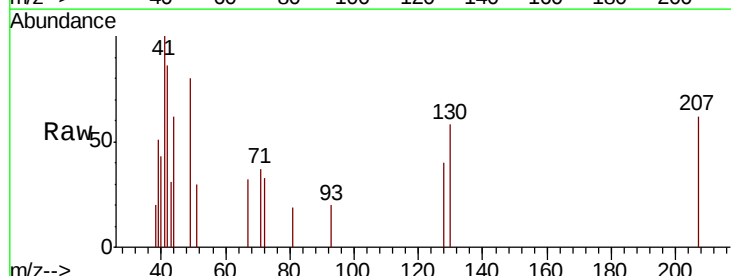
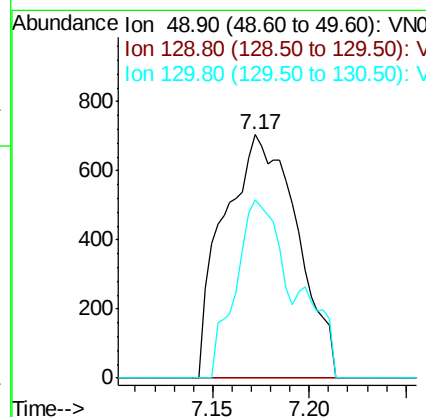
RT: 7.17 min Scan# 1679

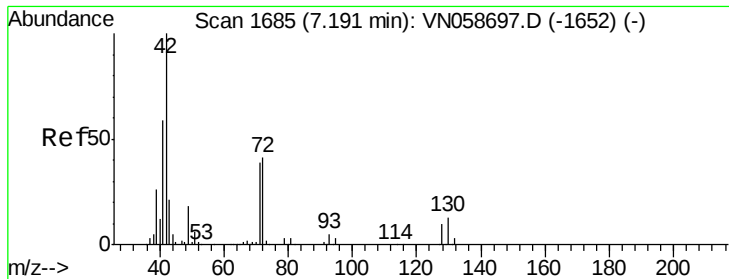
Delta R.T. -0.00 min

Lab File: VN058703.D

Acq: 11 Oct 2019 15:14

Tgt Ion:	49	Resp:	1854
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.6
130	45.9	55.0	82.4#





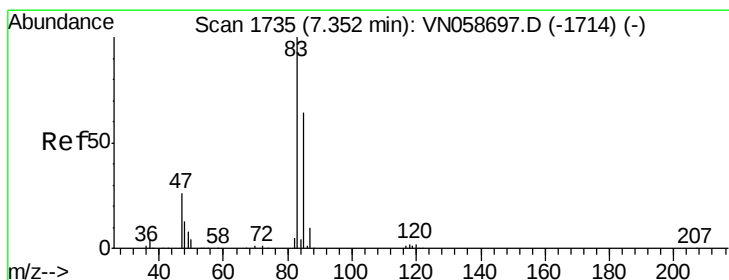
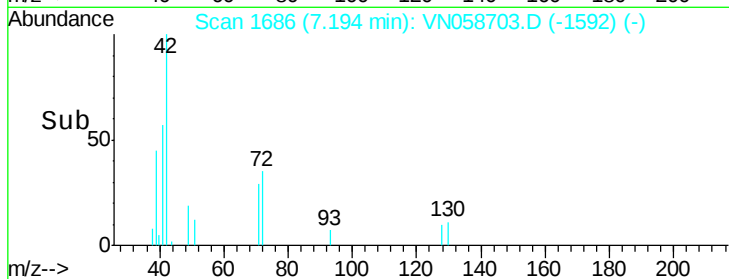
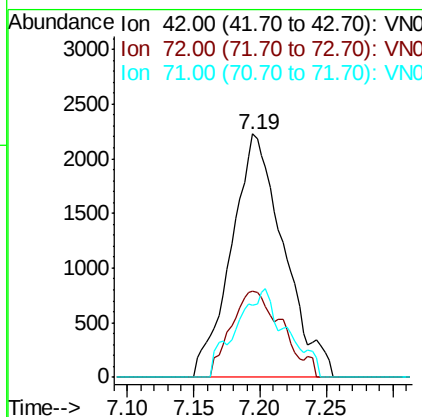
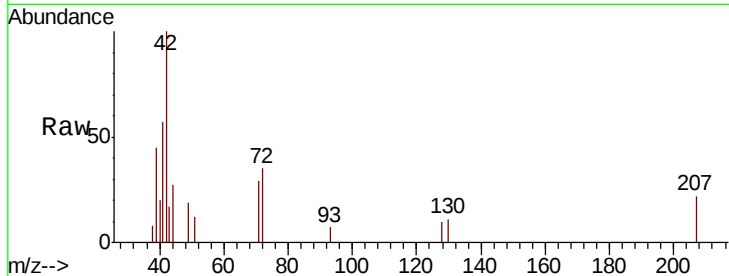
#29
Tetrahydrofuran
Concen: 2.627 ug/l
RT: 7.19 min Scan# 1686
Delta R.T. 0.00 min
Lab File: VN058703.D
Acq: 11 Oct 2019 15:14

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
42	100		
72	34.6	32.8	49.2
71	35.0	31.1	46.7

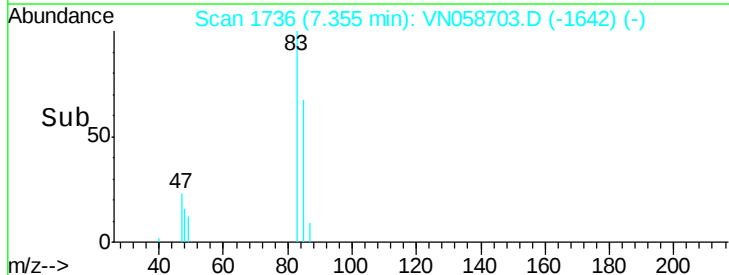
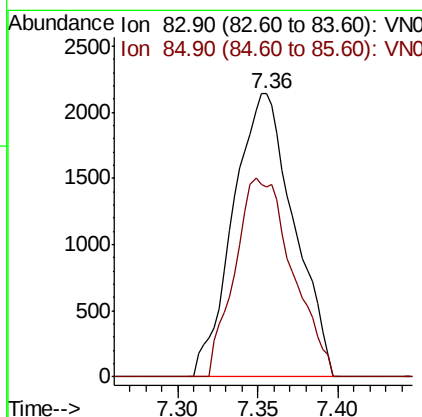
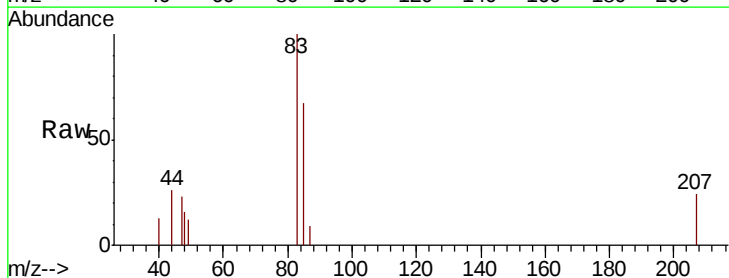
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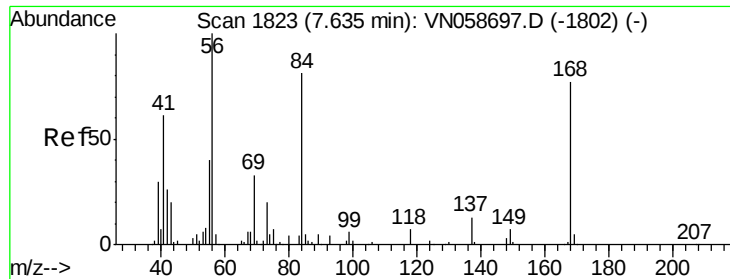
MMDadoda
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#30
Chloroform
Concen: 0.600 ug/l
RT: 7.36 min Scan# 1736
Delta R.T. 0.00 min
Lab File: VN058703.D
Acq: 11 Oct 2019 15:14

Tgt Ion	Ratio	Lower	Upper
83	100		
85	67.1	51.0	76.6





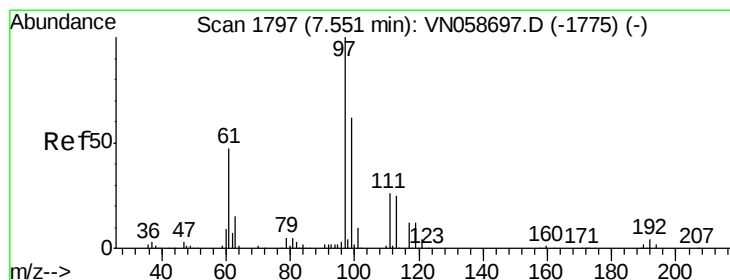
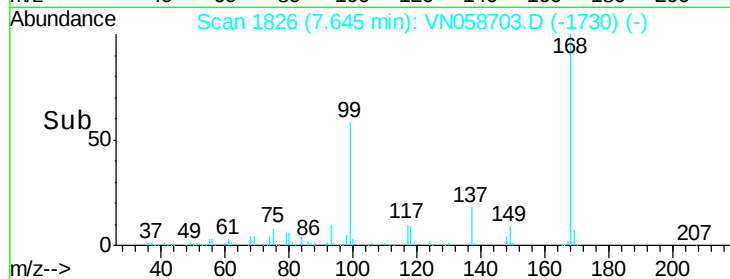
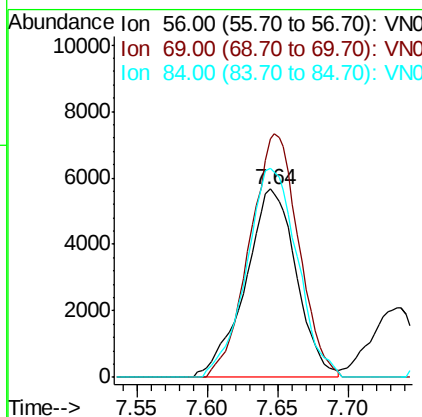
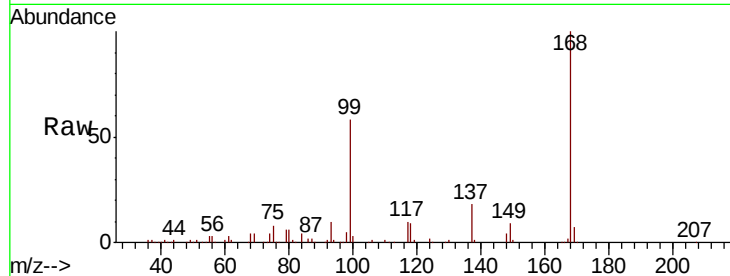
#31
Cyclohexane
Concen: 1.610 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. 0.01 min
Lab File: VN058703.D
Acq: 11 Oct 2019 15:14

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
56	100		
69	126.6	26.2	39.4#
84	111.0	64.9	97.3#

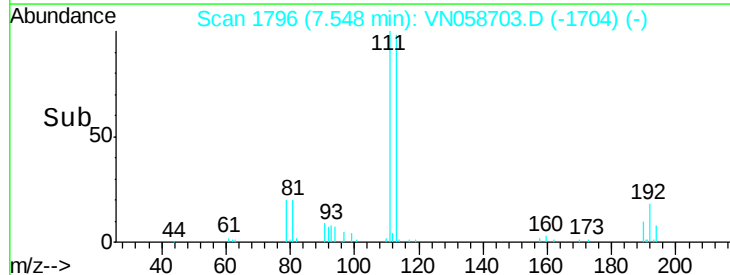
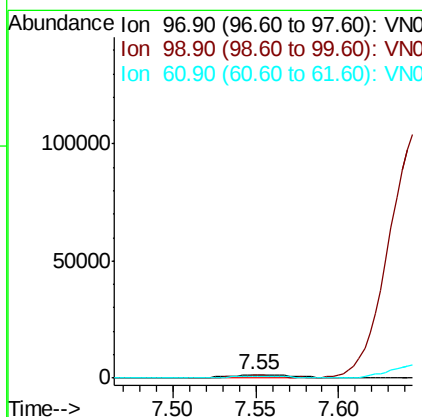
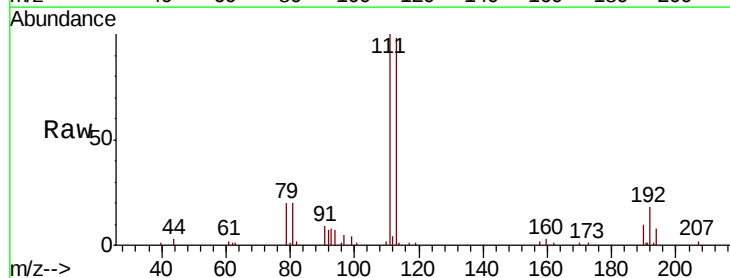
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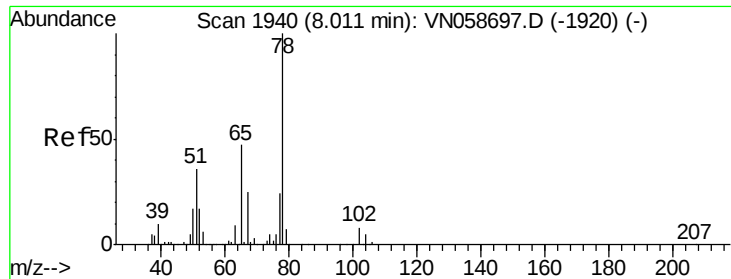
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#32
1,1,1-Trichloroethane
Concen: 0.500 ug/l
RT: 7.55 min Scan# 1796
Delta R.T. -0.00 min
Lab File: VN058703.D
Acq: 11 Oct 2019 15:14

Tgt Ion	Ratio	Lower	Upper
97	100		
99	0.0	50.8	76.2#
61	47.4	38.1	57.1





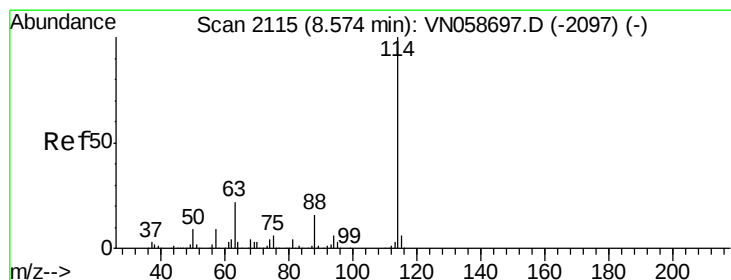
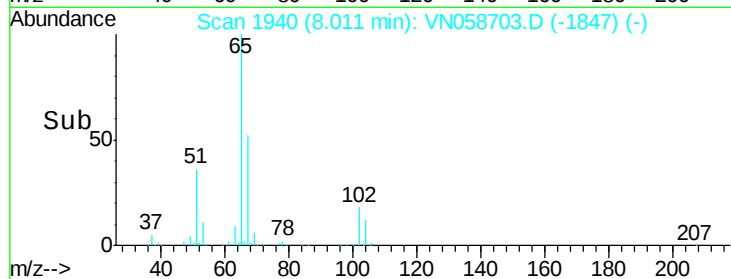
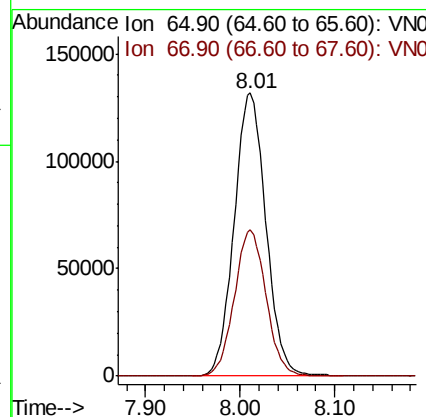
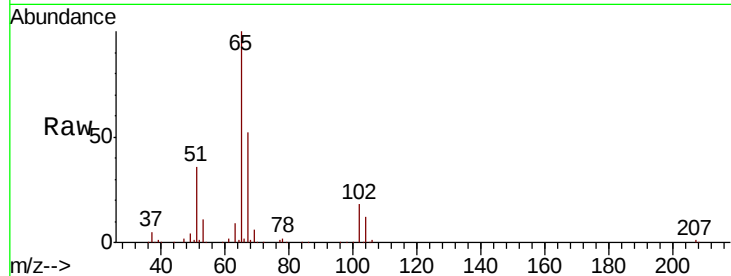
#33
 1,2-Dichloroethane-d4
 Concen: 50.963 ug/l
 RT: 8.01 min Scan# 1940
 Delta R.T. 0.00 min
 Lab File: VN058703.D
 Acq: 11 Oct 2019 15:14

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	51.5	0.0	103.8	

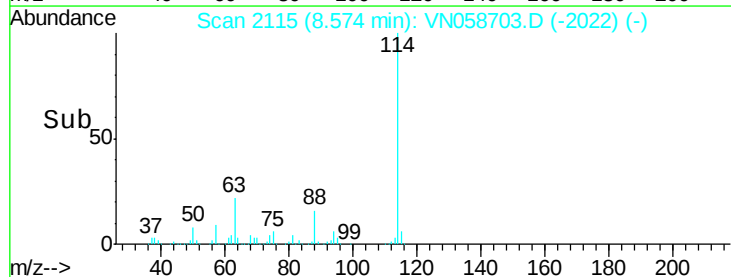
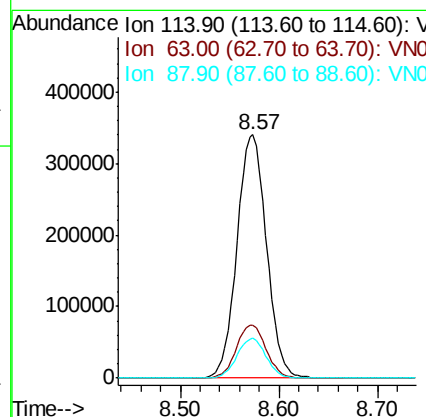
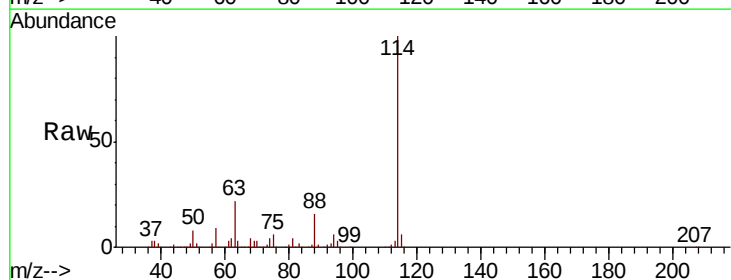
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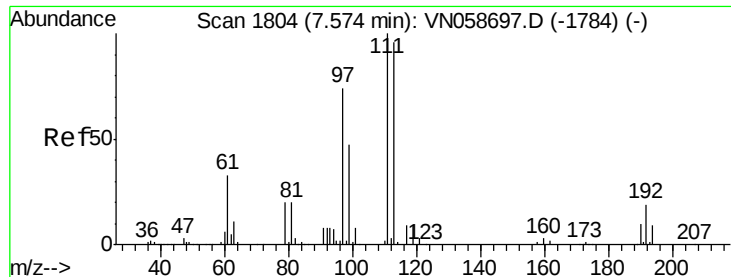
MMDadoda
 10/16/2019 12:48:31 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN058703.D
 Acq: 11 Oct 2019 15:14

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	21.9	0.0	43.8	
88	16.3	0.0	32.0	





#35

Dibromofluoromethane

Concen: 49.649 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. 0.00 min

Lab File: VN058703.D

Acq: 11 Oct 2019 15:14

Instrument :

MSVOA_N

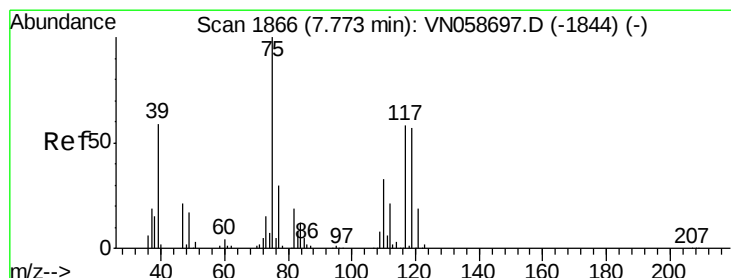
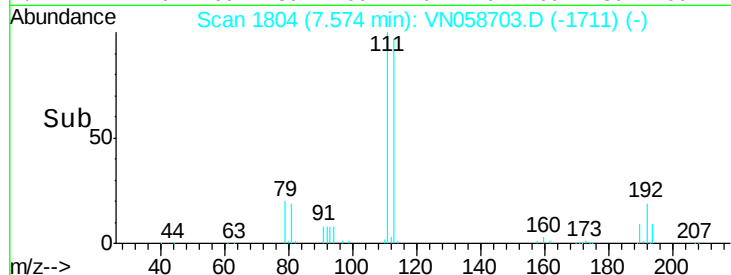
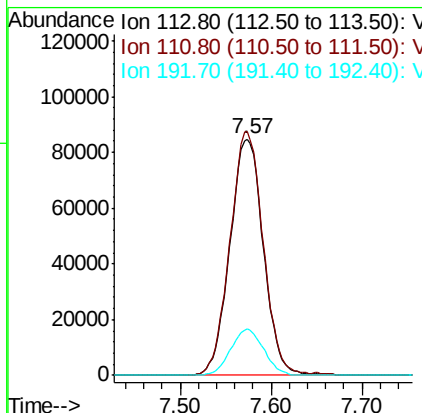
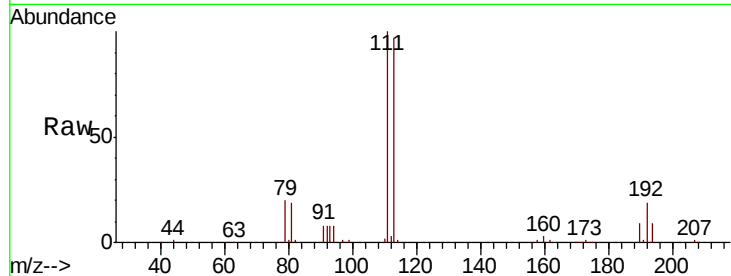
ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion:	113	Resp:	217344
Ion Ratio	Lower	Upper	
113	100		
111	101.8	82.3	123.5
192	19.2	15.0	22.6

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#36

1,1-Dichloropropene

Concen: 0.503 ug/l

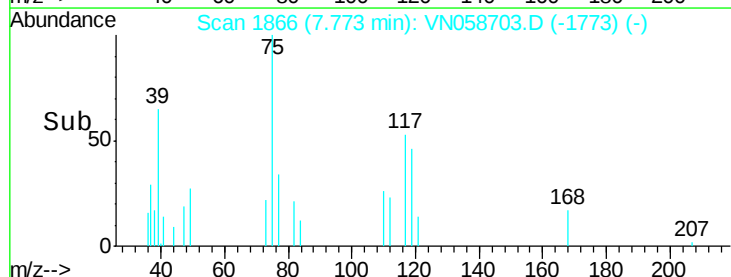
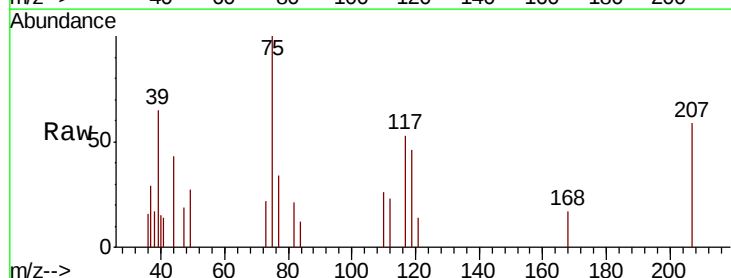
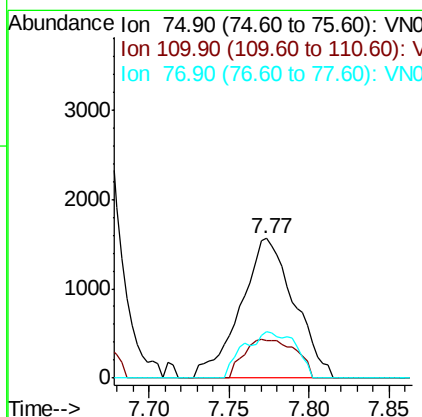
RT: 7.77 min Scan# 1866

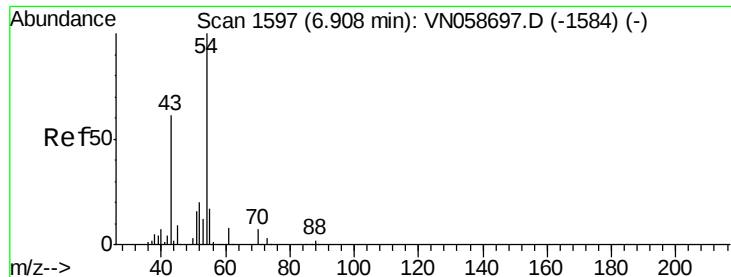
Delta R.T. 0.00 min

Lab File: VN058703.D

Acq: 11 Oct 2019 15:14

Tgt Ion:	75	Resp:	3605
Ion Ratio	Lower	Upper	
75	100		
110	26.5	16.6	49.8
77	31.8	24.6	37.0





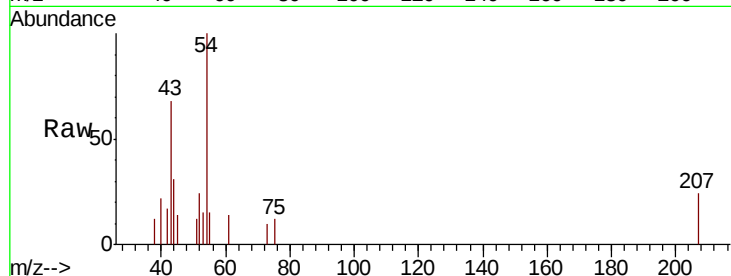
#37
Ethyl Acetate
Concen: 0.512 ug/l
RT: 6.92 min Scan# 1600
Delta R.T. 0.01 min
Lab File: VN058703.D
Acq: 11 Oct 2019 15:14

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2019

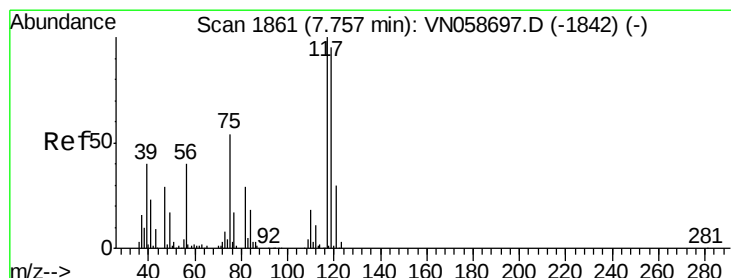
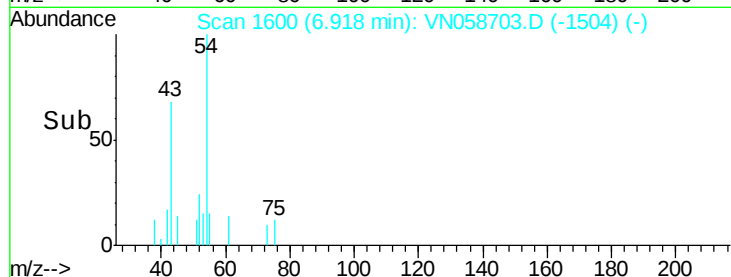
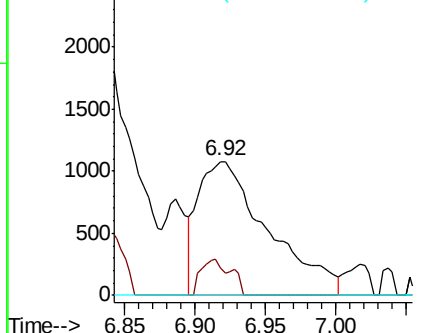
Tot Ion	Ratio	Lower	Upper
43	100		
61	11.5	11.3	16.9
70	0.0	7.2	10.8

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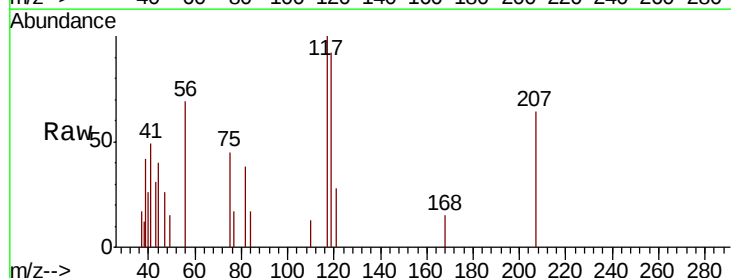


Abundance Ion 43.00 (42.70 to 43.70): VN058703.D (-1504) (-)
Ion 60.90 (60.60 to 61.60): VN058703.D (-1504) (-)
Ion 70.00 (69.70 to 70.70): VN058703.D (-1504) (-)

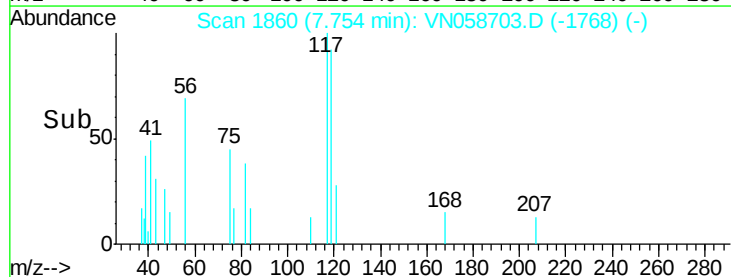
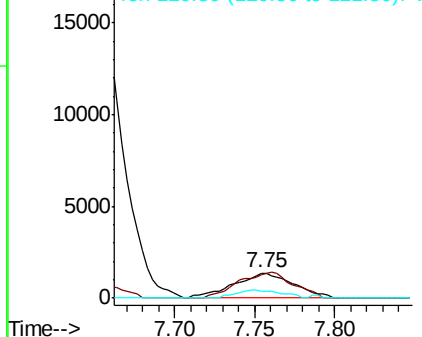


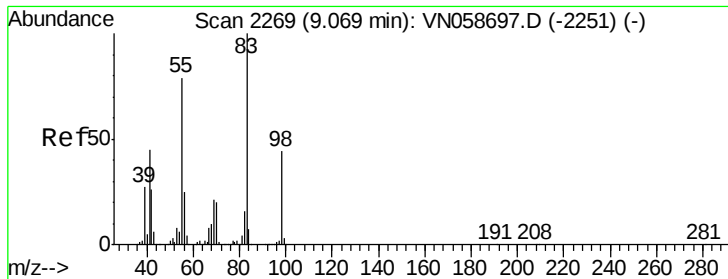
#38
Carbon Tetrachloride
Concen: 0.509 ug/l
RT: 7.75 min Scan# 1860
Delta R.T. -0.00 min
Lab File: VN058703.D
Acq: 11 Oct 2019 15:14

Tgt Ion	Ratio	Lower	Upper
117	100		
119	92.3	75.7	113.5
121	28.5	23.9	35.9



Abundance Ion 116.80 (116.50 to 117.50): VN058703.D (-1768) (-)
Ion 118.80 (118.50 to 119.50): VN058703.D (-1768) (-)
Ion 120.80 (120.50 to 121.50): VN058703.D (-1768) (-)





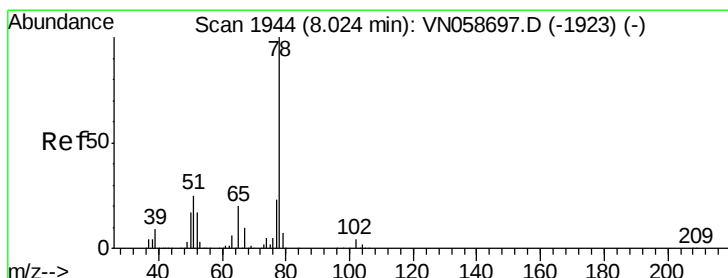
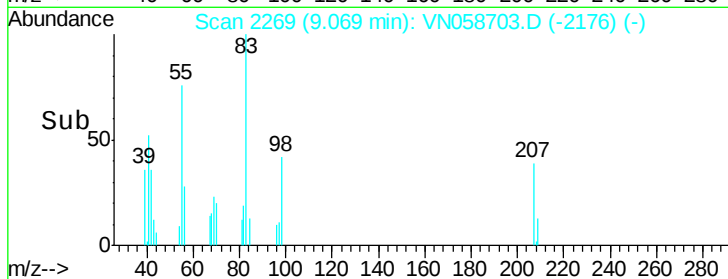
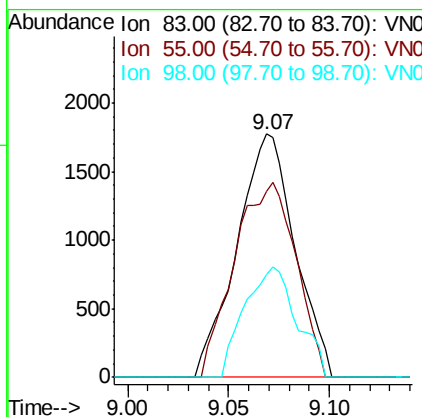
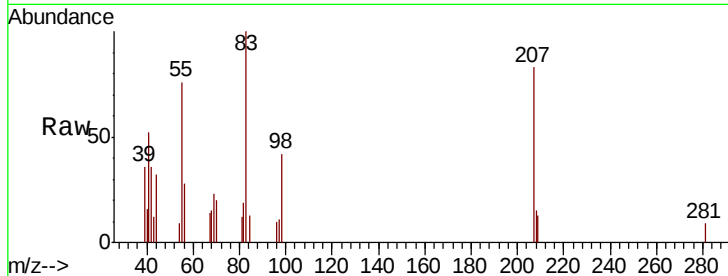
#39
Methvlcvclohexane
Concen: 0.428 ug/l
RT: 9.07 min Scan# 2269
Delta R.T. 0.00 min
Lab File: VN058703.D
Acq: 11 Oct 2019 15:14

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
83	100		
55	76.4	63.4	95.0
98	42.4	35.1	52.7

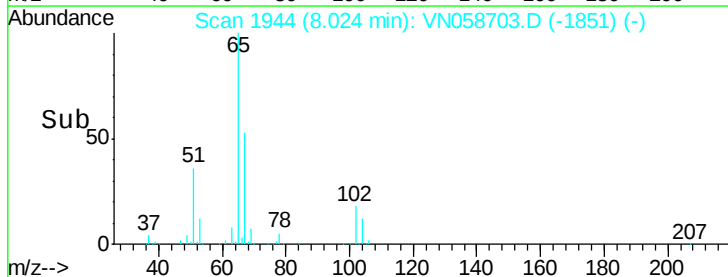
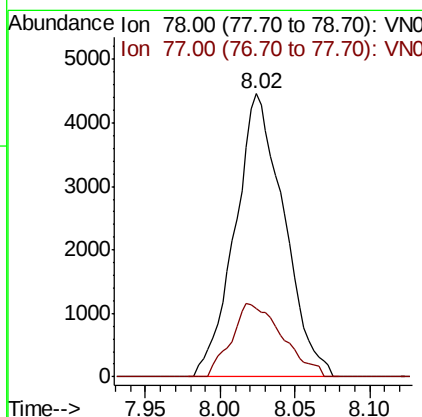
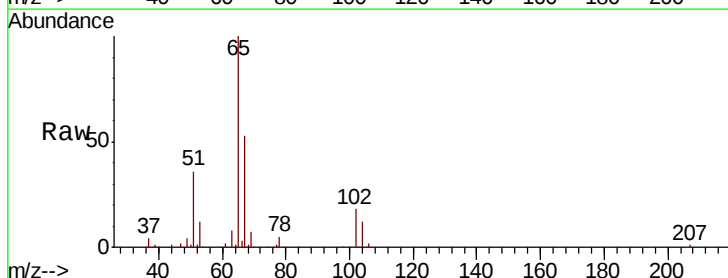
Manual Integrations
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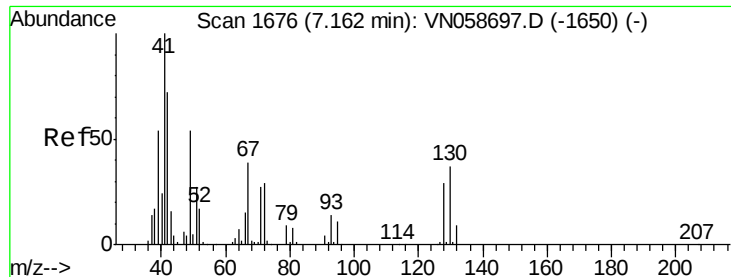
MMDadoda
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#40
Benzene
Concen: 0.493 ug/l
RT: 8.02 min Scan# 1944
Delta R.T. 0.00 min
Lab File: VN058703.D
Acq: 11 Oct 2019 15:14

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.1	18.8	28.2





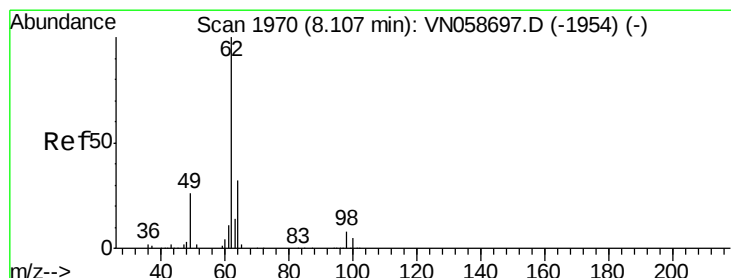
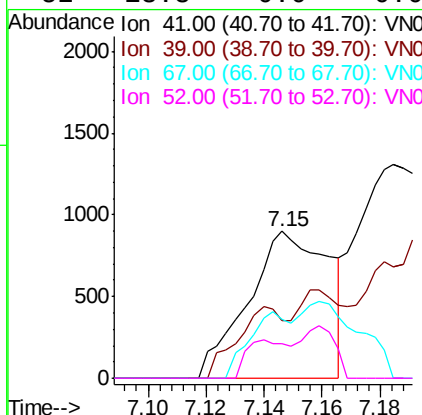
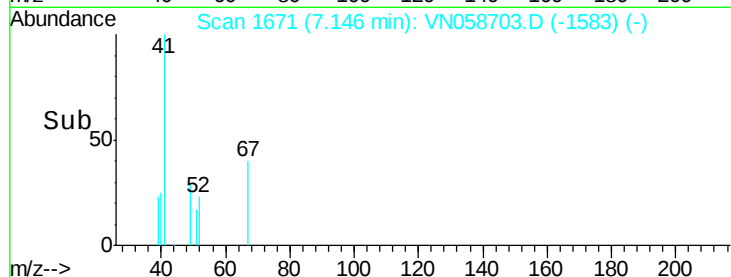
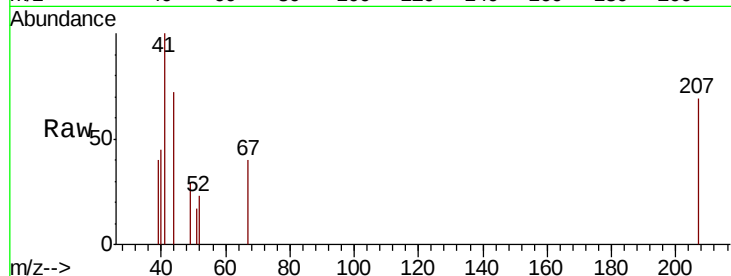
#41
Methacrylonitrile
Concen: 0.511 ug/l
RT: 7.15 min Scan# 1671
Delta R.T. -0.02 min
Lab File: VN058703.D
Acq: 11 Oct 2019 15:14

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
41	100		
39	30.8	115.4	173.2#
67	23.4	0.0	0.0#
52	13.8	0.0	0.0#

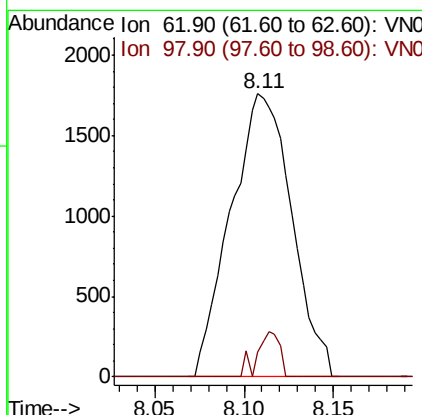
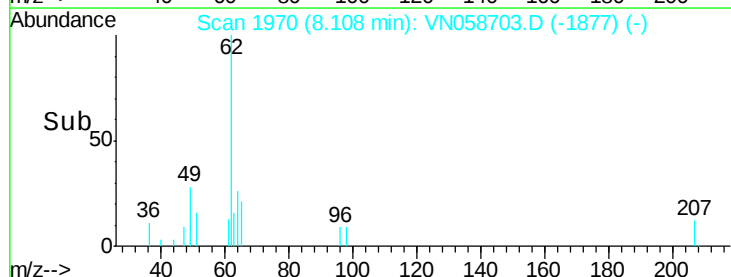
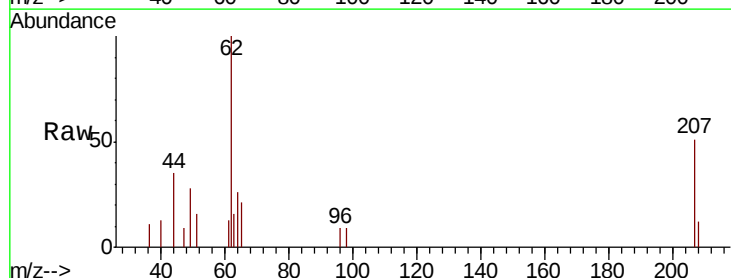
Manual Integrations
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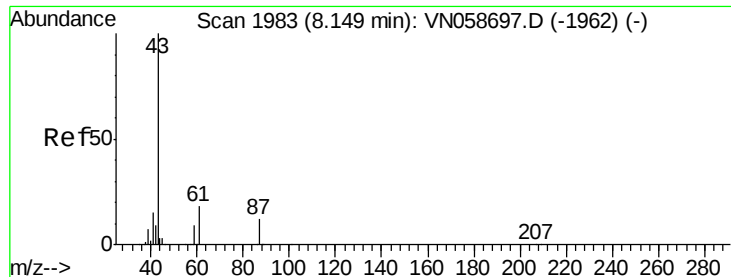
MMDadoda
10/16/2019 12:48:31 AM



#42
1,2-Dichloroethane
Concen: 0.530 ug/l
RT: 8.11 min Scan# 1970
Delta R.T. 0.00 min
Lab File: VN058703.D
Acq: 11 Oct 2019 15:14

Tgt Ion	Ratio	Lower	Upper
62	100		
98	5.9	0.0	15.8





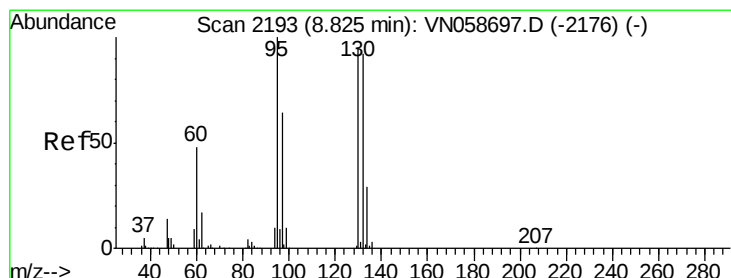
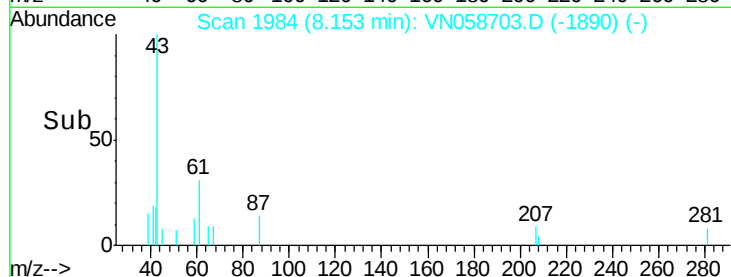
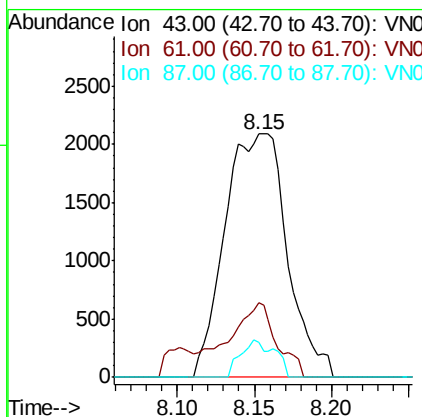
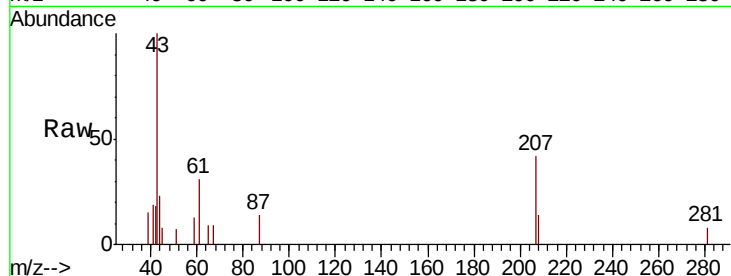
#43
Isopropyl Acetate
Concen: 0.474 ug/l
RT: 8.15 min Scan# 1984
Delta R.T. 0.00 min
Lab File: VN058703.D
Acq: 11 Oct 2019 15:14

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
43	100		
61	19.2	20.3	30.5#
87	8.3	9.8	14.6#

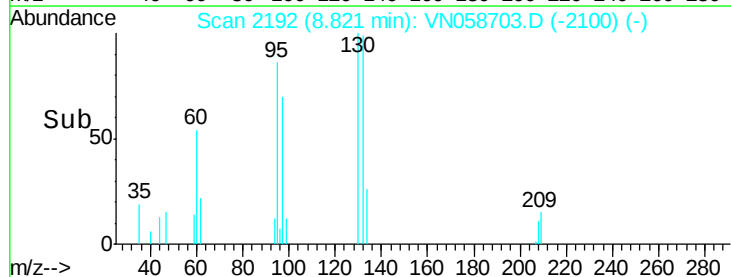
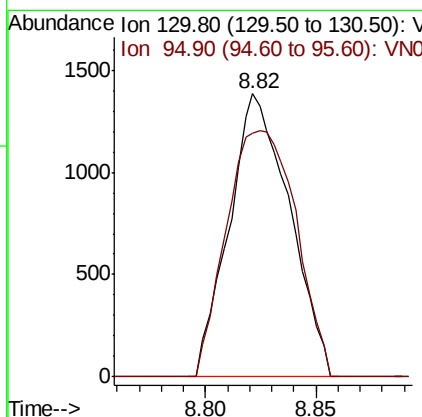
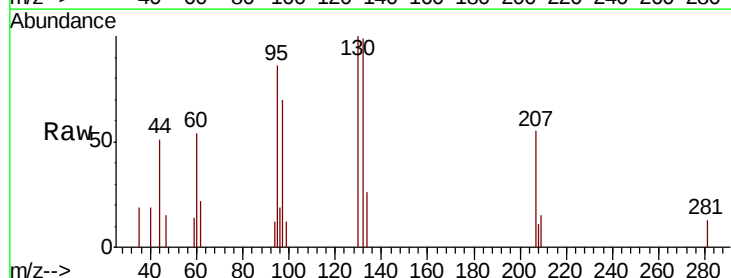
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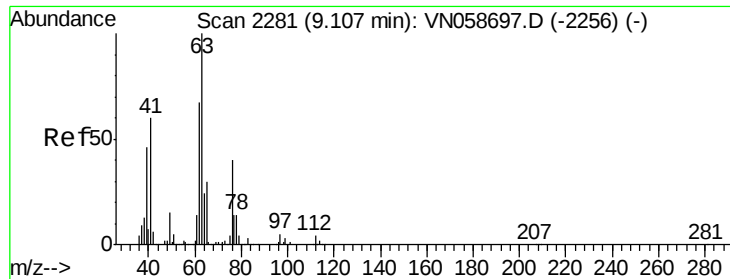
MMDadoda
10/16/2019 12:48:31 AM



#44
Trichloroethene
Concen: 0.512 ug/l
RT: 8.82 min Scan# 2192
Delta R.T. -0.00 min
Lab File: VN058703.D
Acq: 11 Oct 2019 15:14

Tgt Ion	Ratio	Lower	Upper
130	100		
95	86.1	0.0	211.2





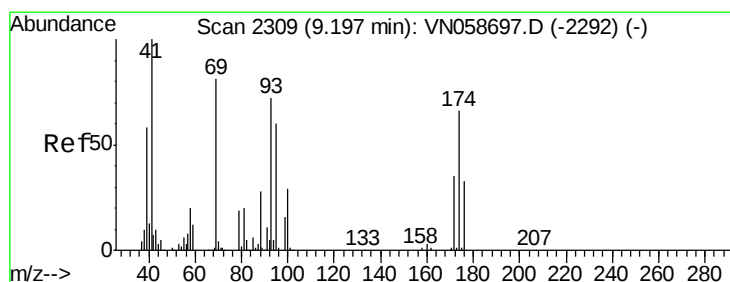
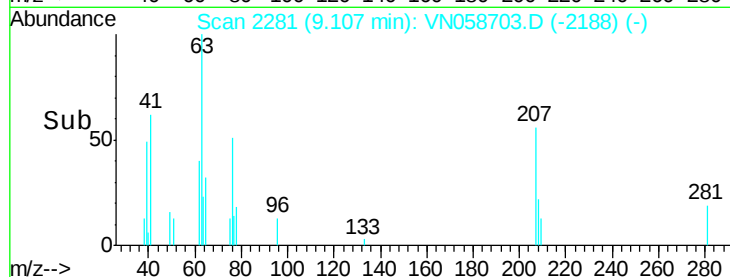
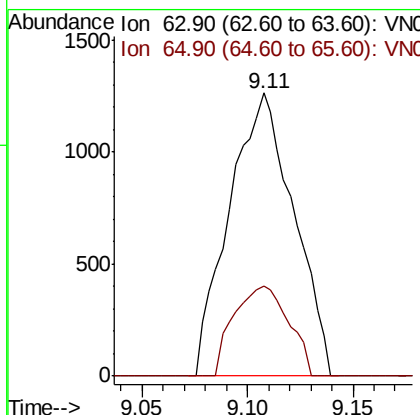
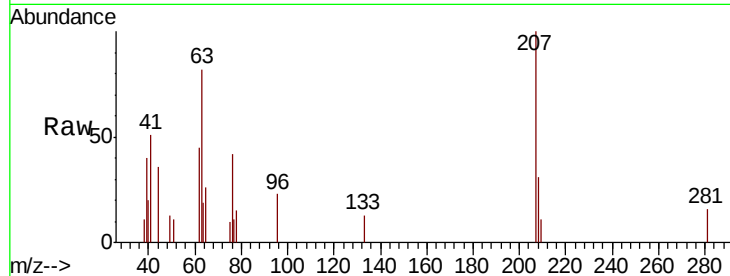
#45
 1,2-Dichloropropane
 Concen: 0.487 ug/l
 RT: 9.11 min Scan# 2281
 Delta R.T. 0.00 min
 Lab File: VN058703.D
 Acq: 11 Oct 2019 15:14

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT4-2019

Tot Ion: 63 Resp: 2683
 Ion Ratio Lower Upper
 63 100
 65 31.9 24.1 36.1

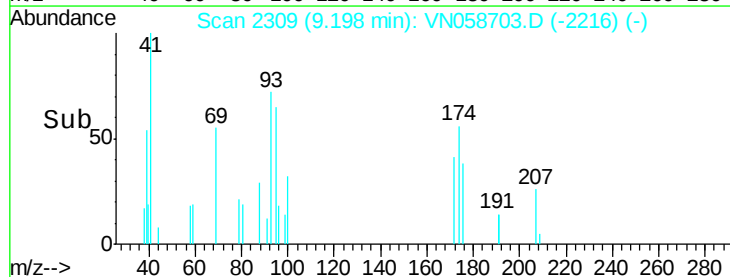
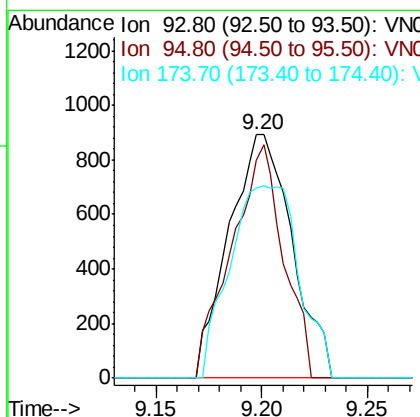
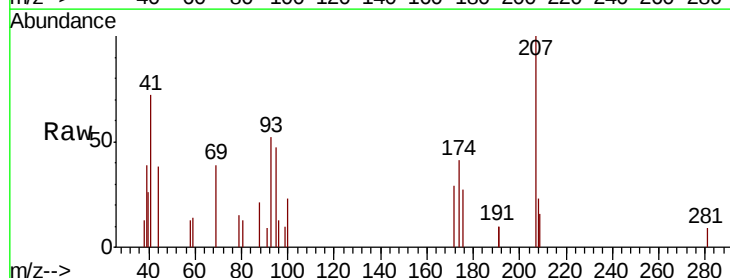
Manual Integrations
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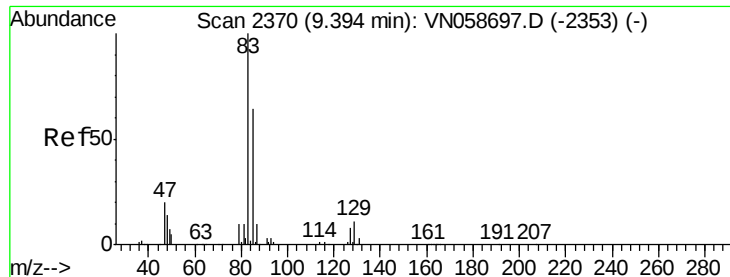
MMDadoda
 10/16/2019 12:48:31 AM



#46
 Dibromomethane
 Concen: 0.532 ug/l
 RT: 9.20 min Scan# 2309
 Delta R.T. 0.00 min
 Lab File: VN058703.D
 Acq: 11 Oct 2019 15:14

Tgt Ion: 93 Resp: 1858
 Ion Ratio Lower Upper
 93 100
 95 78.7 66.6 100.0
 174 86.3 75.2 112.8





#47

Bromodichloromethane

Concen: 0.463 ug/l

RT: 9.39 min Scan# 2369

Delta R.T. -0.00 min

Lab File: VN058703.D

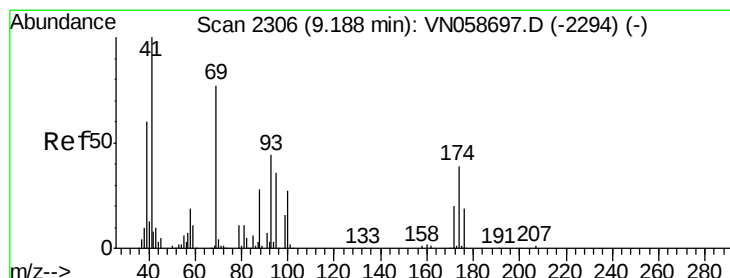
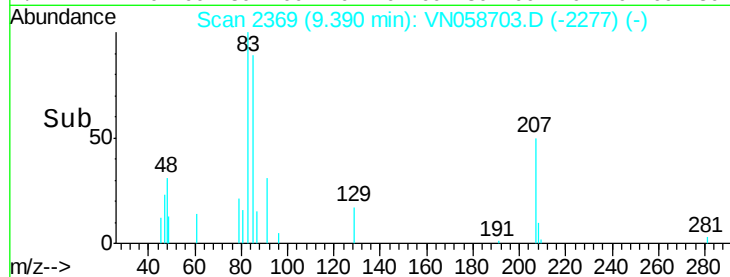
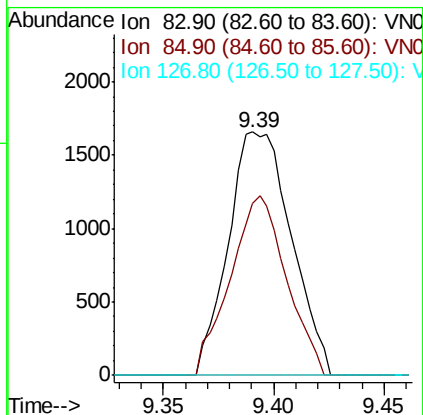
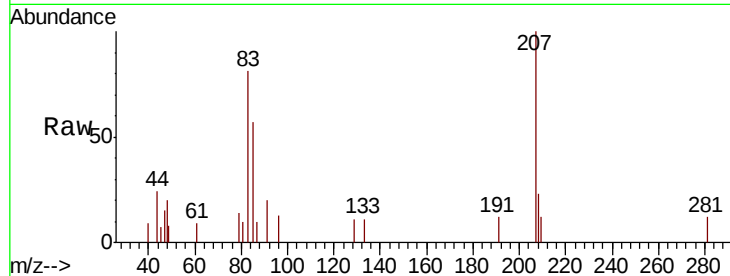
Acq: 11 Oct 2019 15:14

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion:	83	Resp:	3295
Ion Ratio	Lower	Upper	
83	100		
85	70.7	50.9	76.3
127	0.0	6.3	9.5#

Manual Integrations
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#48

Methyl methacrylate

Concen: 0.503 ug/l

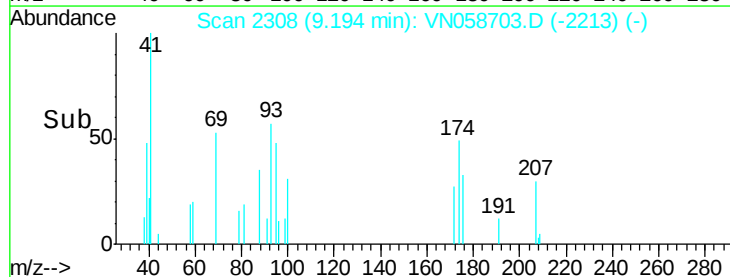
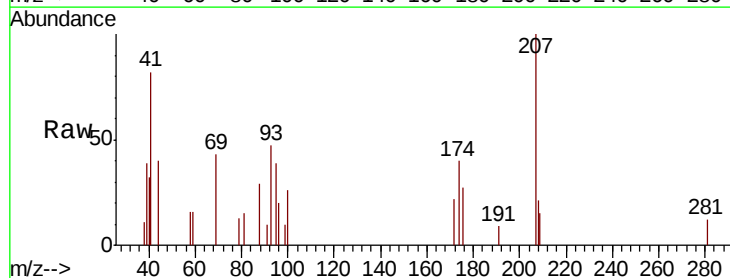
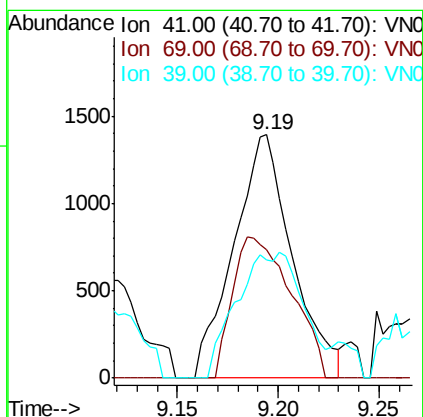
RT: 9.19 min Scan# 2308

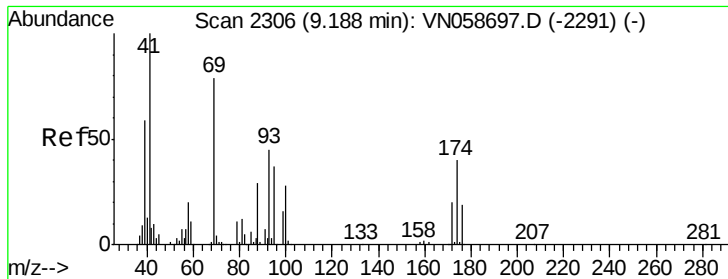
Delta R.T. 0.01 min

Lab File: VN058703.D

Acq: 11 Oct 2019 15:14

Tgt Ion:	41	Resp:	2817
Ion Ratio	Lower	Upper	
41	100		
69	58.3	63.4	95.2#
39	34.0	48.9	73.3#





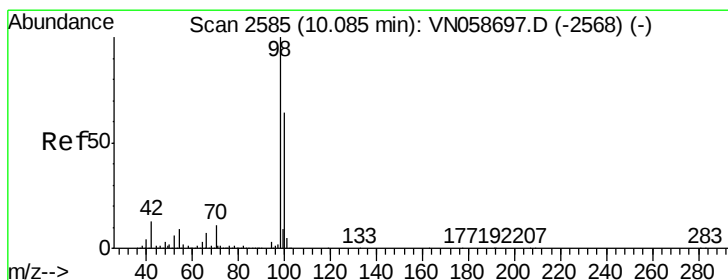
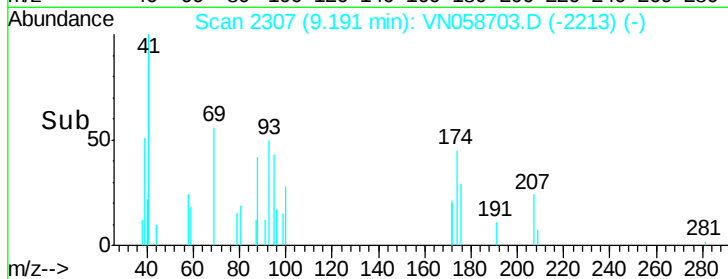
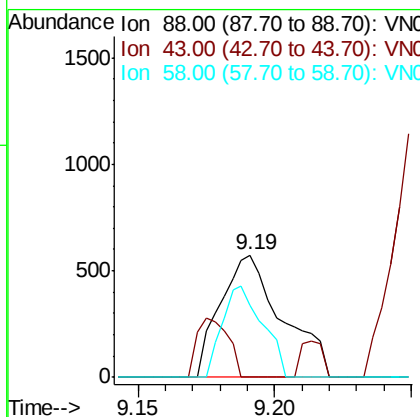
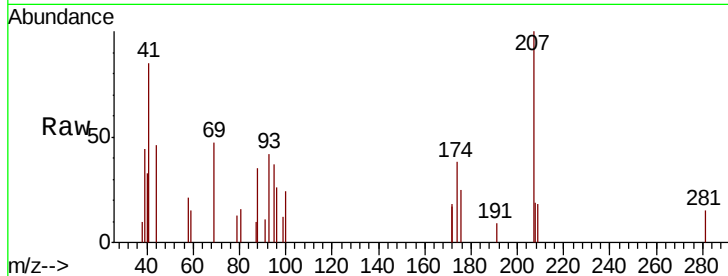
#49
1,4-Dioxane
Concen: 10.465 ug/l
RT: 9.19 min Scan# 2307
Delta R.T. 0.00 min
Lab File: VN058703.D
Acq: 11 Oct 2019 15:14

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
88	100		
43	24.1	28.6	43.0#
58	48.7	57.2	85.8#

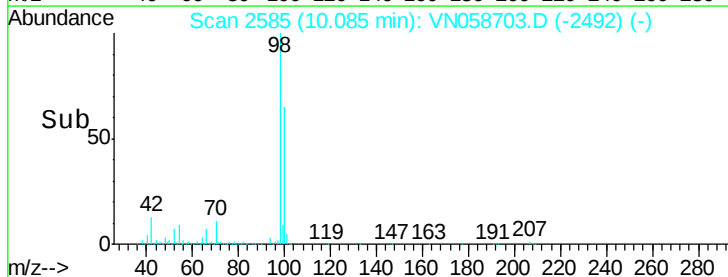
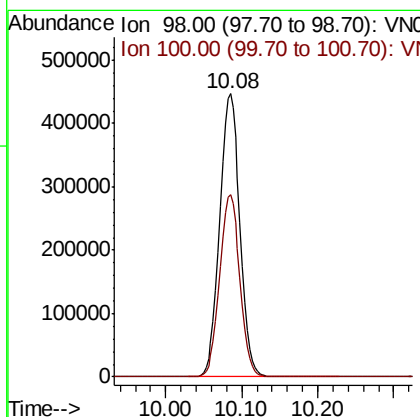
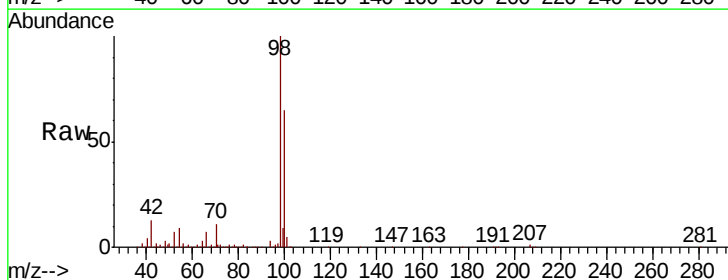
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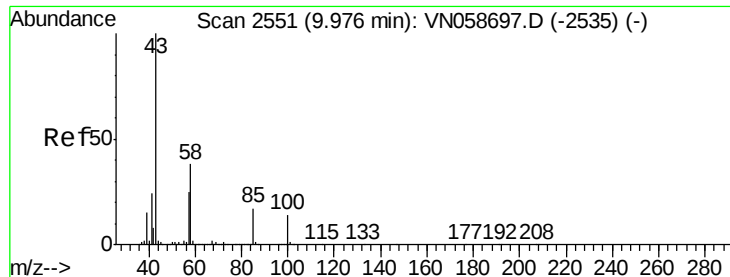
MMDadoda
10/16/2019 12:48:31 AM



#50
Toluene-d8
Concen: 47.114 ug/l
RT: 10.08 min Scan# 2585
Delta R.T. 0.00 min
Lab File: VN058703.D
Acq: 11 Oct 2019 15:14

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.3	51.1	76.7





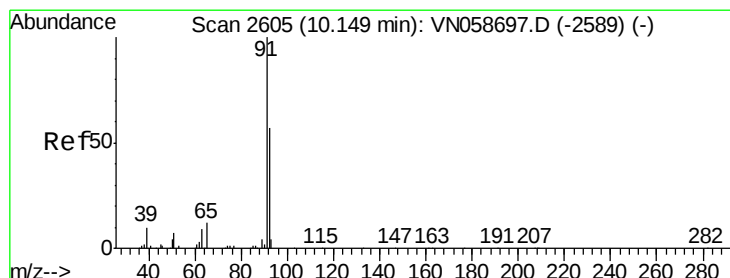
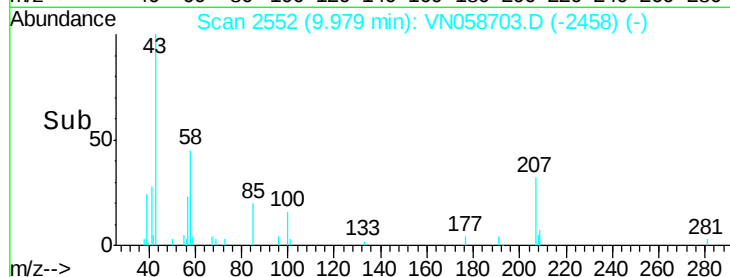
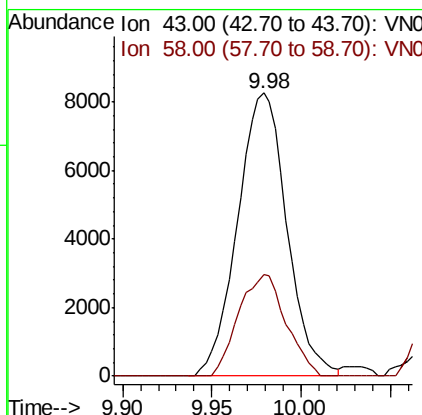
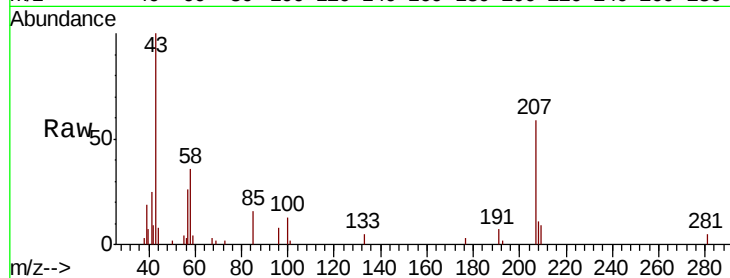
#51
4-Methyl-2-Pentanone
Concen: 2.298 ug/l
RT: 9.98 min Scan# 2552
Delta R.T. 0.00 min
Lab File: VN058703.D
Acq: 11 Oct 2019 15:14

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
43	100		
58	34.4	30.3	45.5

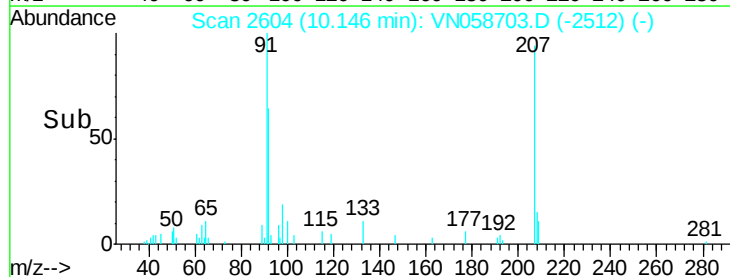
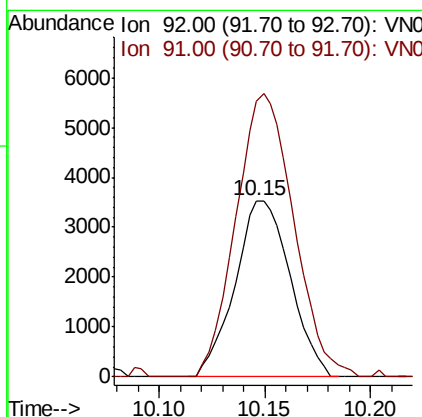
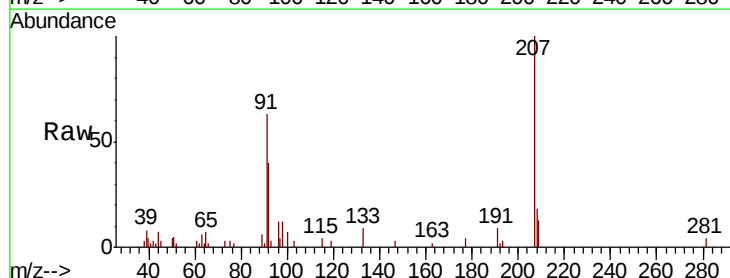
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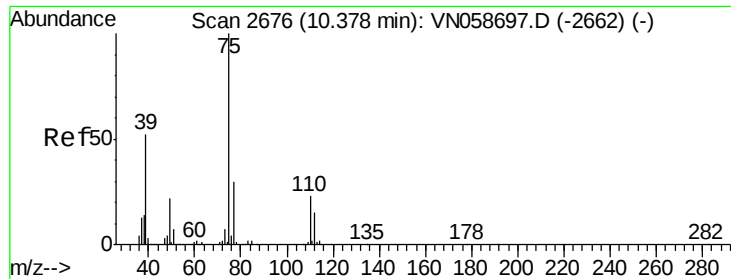
MMDadoda
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#52
Toluene
Concen: 0.510 ug/l
RT: 10.15 min Scan# 2604
Delta R.T. -0.00 min
Lab File: VN058703.D
Acq: 11 Oct 2019 15:14

Tgt Ion	Ratio	Lower	Upper
92	100		
91	168.5	139.1	208.7





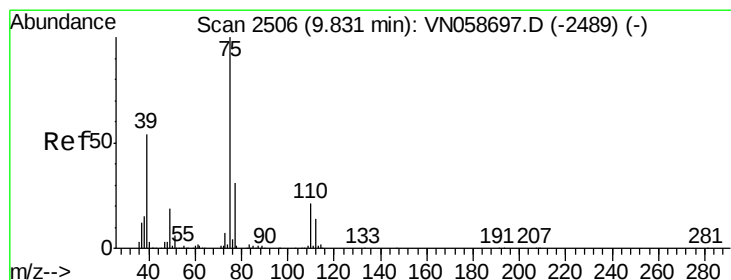
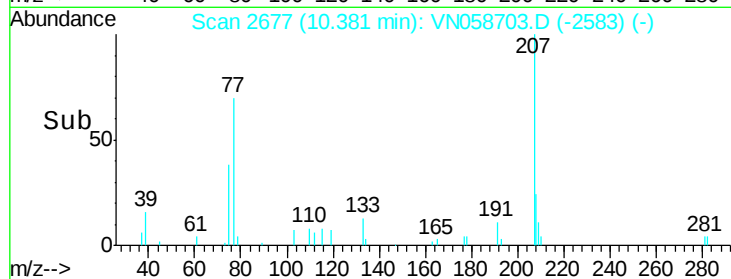
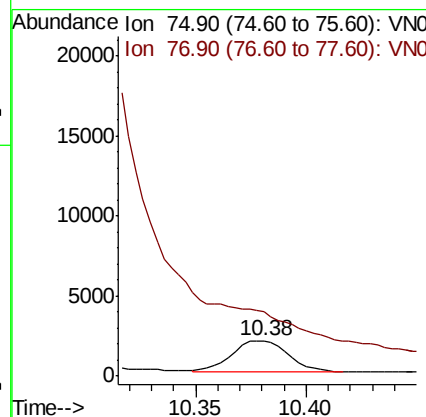
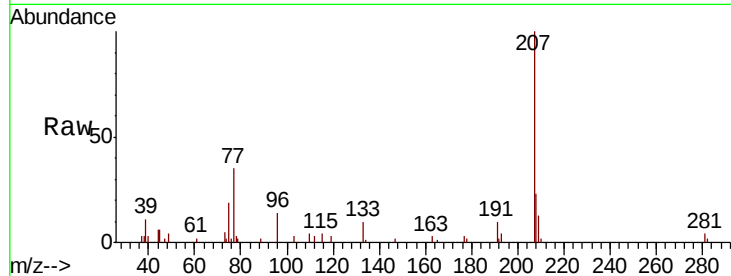
#53
 t-1,3-Dichloropropene
 Concen: 0.443 ug/l
 RT: 10.38 min Scan# 2677
 Delta R.T. 0.00 min
 Lab File: VN058703.D
 Acq: 11 Oct 2019 15:14

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT4-2019

Tot Ion: 75 Resp: 3610
 Ion Ratio Lower Upper
 75 100
 77 90.8 26.2 39.4#

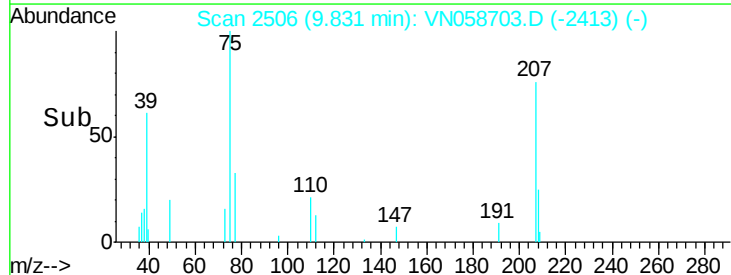
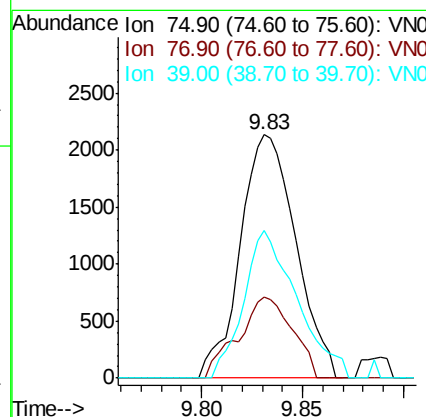
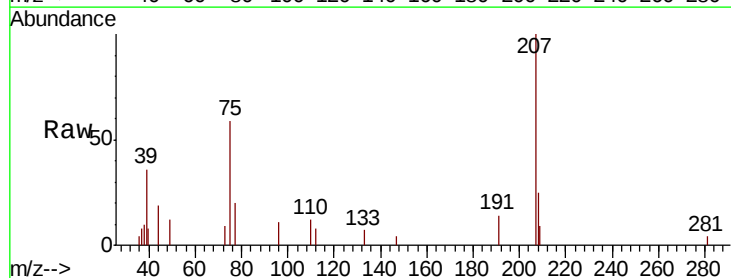
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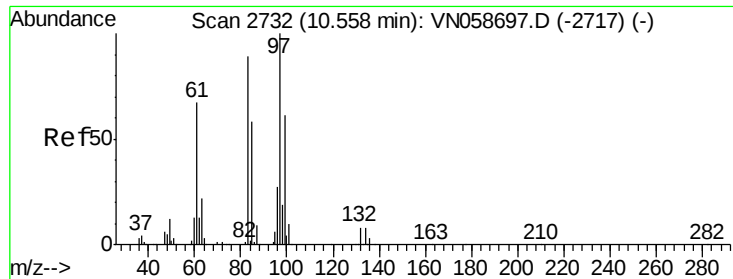
MMDadoda
 10/16/2019 12:48:31 AM



#54
 cis-1,3-Dichloropropene
 Concen: 0.473 ug/l
 RT: 9.83 min Scan# 2506
 Delta R.T. 0.00 min
 Lab File: VN058703.D
 Acq: 11 Oct 2019 15:14

Tgt Ion: 75 Resp: 4100
 Ion Ratio Lower Upper
 75 100
 77 33.1 24.4 36.6
 39 60.5 43.1 64.7





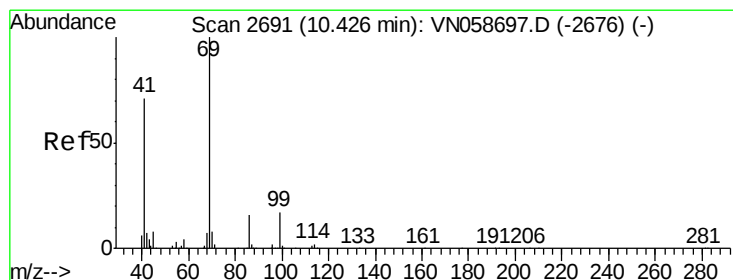
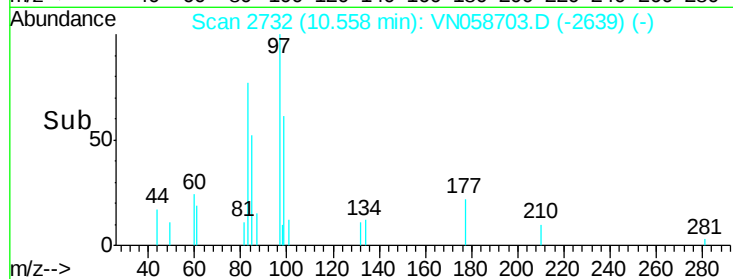
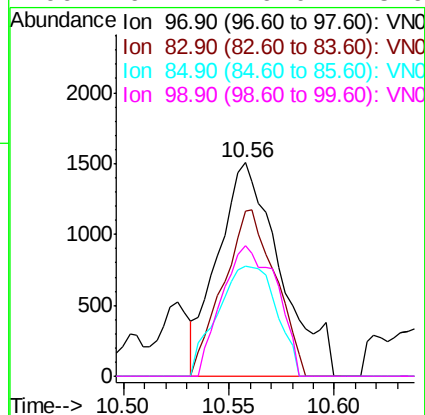
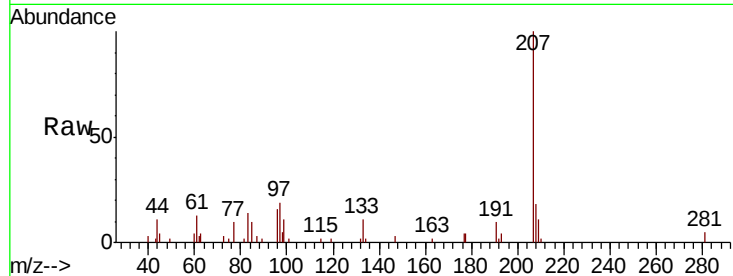
#55
 1,1,2-Trichloroethane
 Concen: 0.601 ug/l
 RT: 10.56 min Scan# 2732
 Delta R.T. 0.00 min
 Lab File: VN058703.D
 Acq: 11 Oct 2019 15:14

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT4-2019

Tot Ion:	97	Resp:	3094
Ion	Ratio	Lower	Upper
97	100		
83	77.2	71.2	106.8
85	51.6	46.7	70.1
99	61.2	49.0	73.6

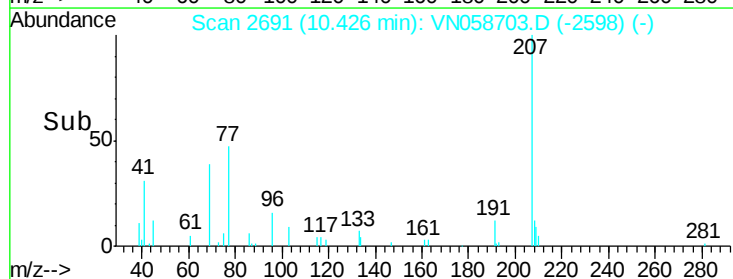
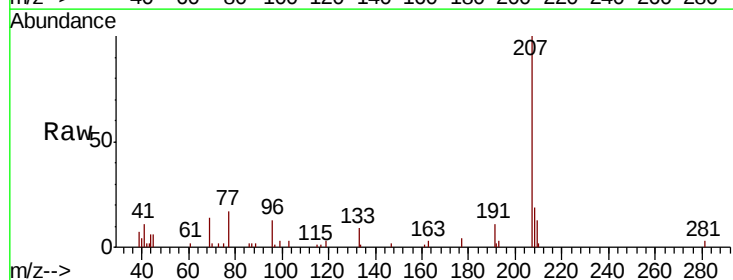
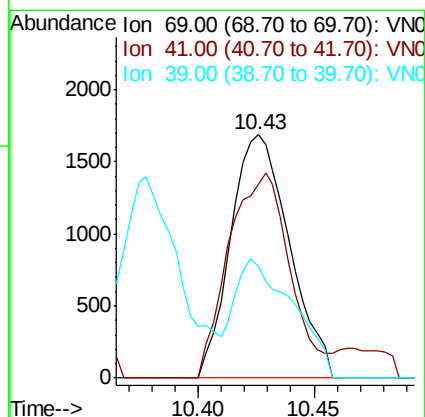
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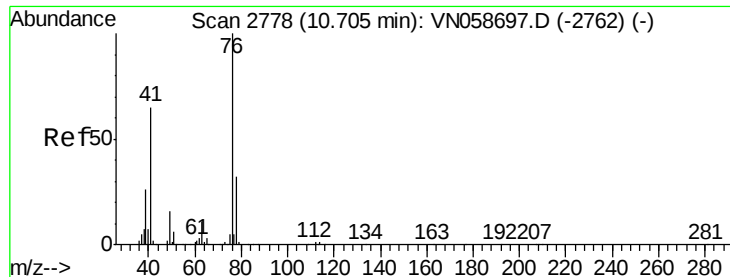
MMDadoda
 10/16/2019 12:48:31 AM



#56
 Ethyl methacrylate
 Concen: 0.395 ug/l
 RT: 10.43 min Scan# 2691
 Delta R.T. 0.00 min
 Lab File: VN058703.D
 Acq: 11 Oct 2019 15:14

Tgt Ion:	69	Resp:	2970
Ion	Ratio	Lower	Upper
69	100		
41	87.5	56.8	85.2#
39	49.0	32.5	48.7#





#57

1,3-Dichloropropane

Concen: 0.495 ug/l

RT: 10.70 min Scan# 2777

Delta R.T. -0.00 min

Lab File: VN058703.D

Acq: 11 Oct 2019 15:14

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion: 76 Resp: 4343

Ion Ratio Lower Upper

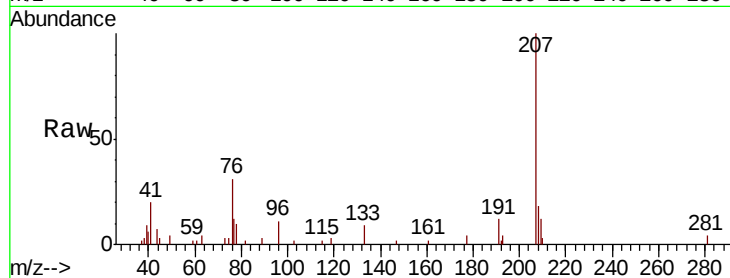
76 100

78 38.8 25.9 38.9

Manual Integrations
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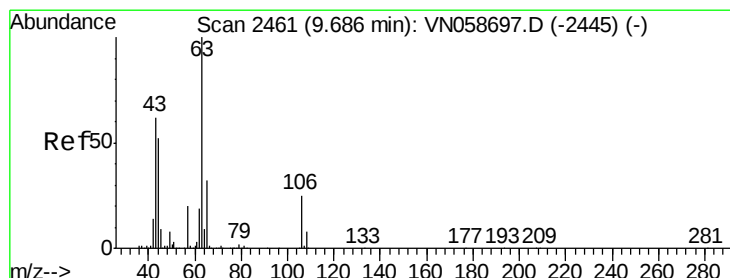
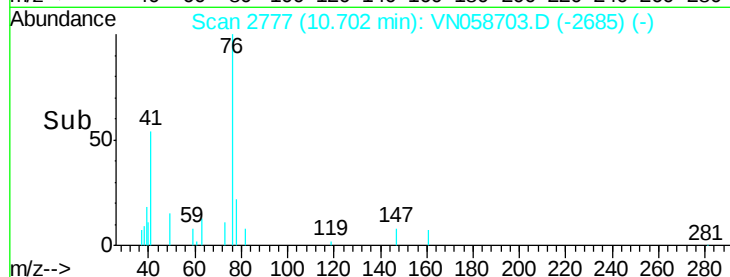
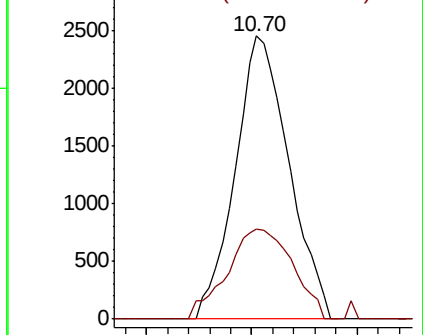
MMDadoda

10/16/2019 12:48:31 AM



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#58

2-Chloroethyl Vinyl ether

Concen: 2.240 ug/l

RT: 9.69 min Scan# 2462

Delta R.T. 0.00 min

Lab File: VN058703.D

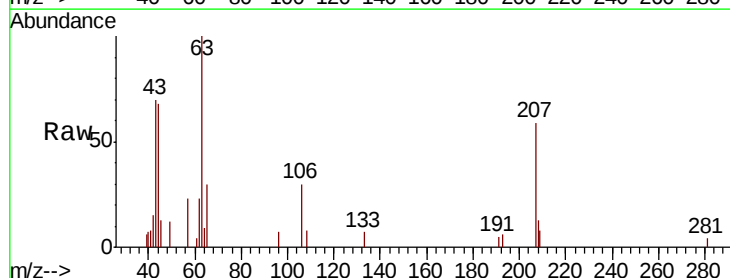
Acq: 11 Oct 2019 15:14

Tgt Ion: 63 Resp: 8125

Ion Ratio Lower Upper

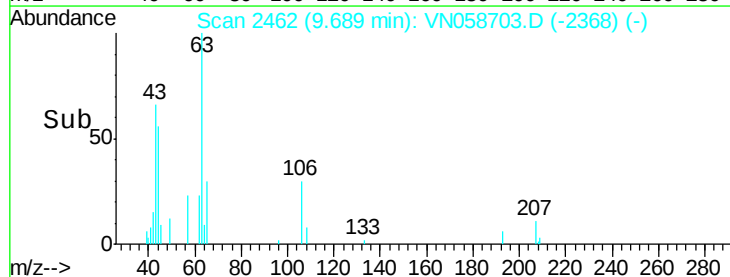
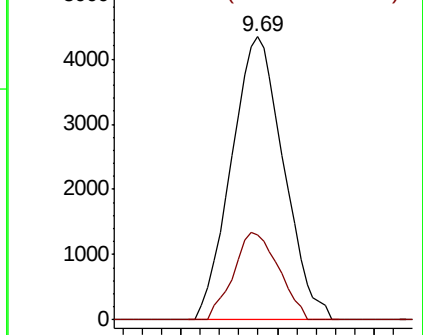
63 100

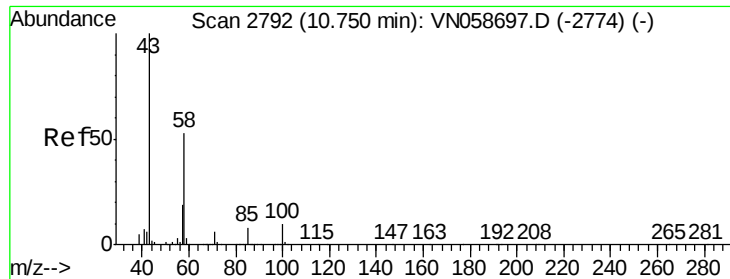
106 26.7 20.0 30.0



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V





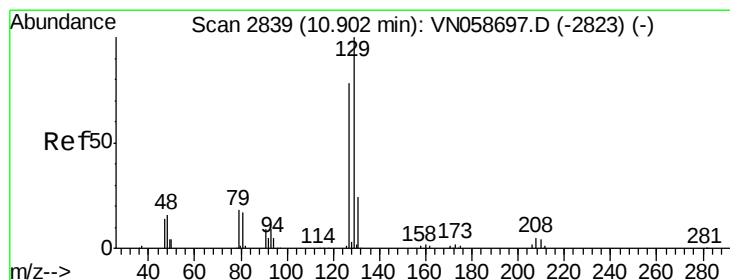
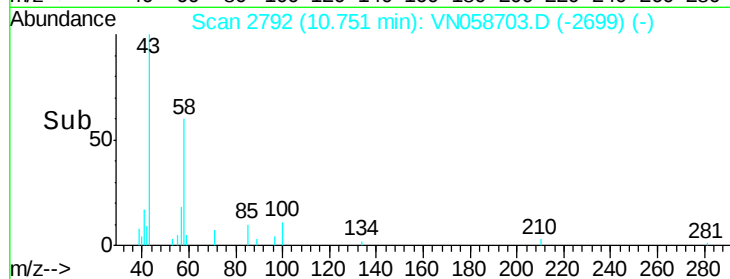
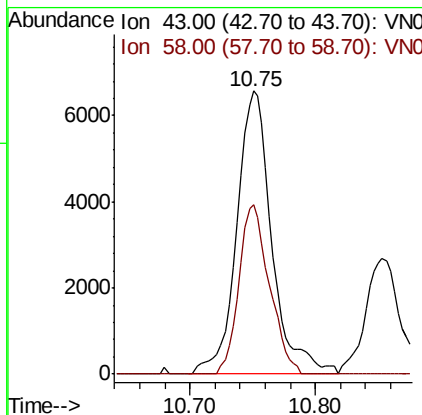
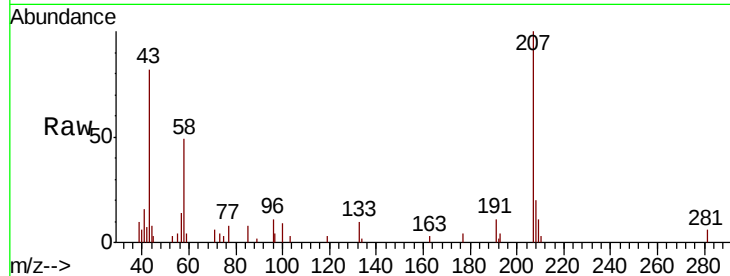
#59
2-Hexanone
Concen: 2.384 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN058703.D
Acq: 11 Oct 2019 15:14

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion: 43 Resp: 12776
Ion Ratio Lower Upper
43 100
58 51.7 26.1 78.3

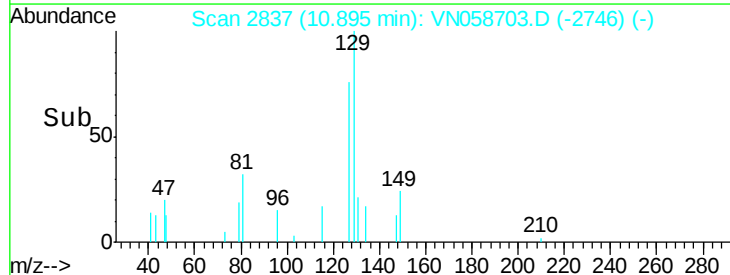
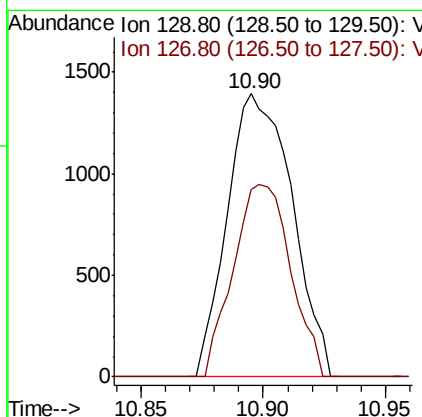
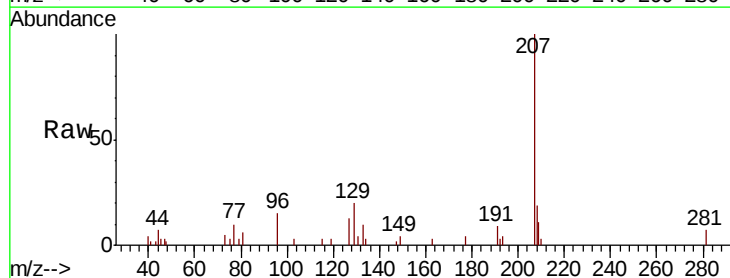
Manual Integrations
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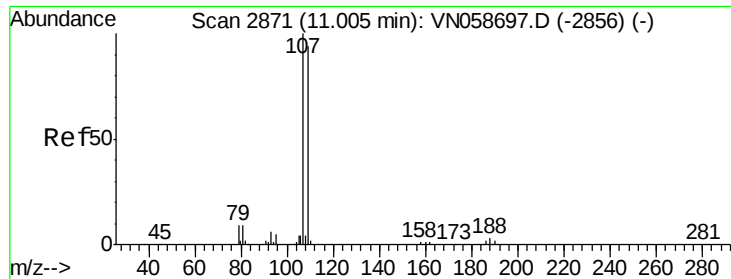
MMDadoda
10/16/2019 12:48:31 AM



#60
Dibromochloromethane
Concen: 0.484 ug/l
RT: 10.90 min Scan# 2837
Delta R.T. -0.01 min
Lab File: VN058703.D
Acq: 11 Oct 2019 15:14

Tgt Ion: 129 Resp: 2571
Ion Ratio Lower Upper
129 100
127 60.2 38.5 115.3





#61

1,2-Dibromoethane

Concen: 0.451 ug/l

RT: 11.01 min Scan# 2872

Delta R.T. 0.00 min

Lab File: VN058703.D

Acq: 11 Oct 2019 15:14

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion: 107 Resp: 2327

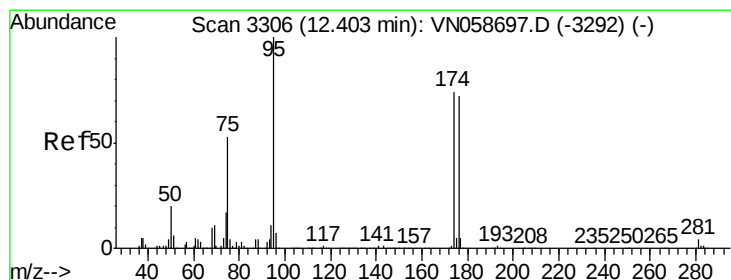
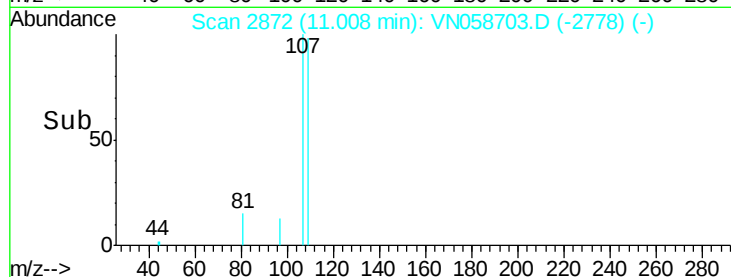
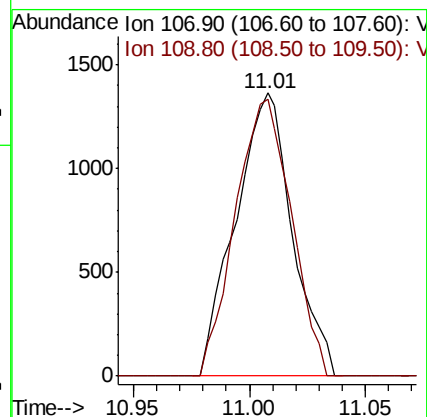
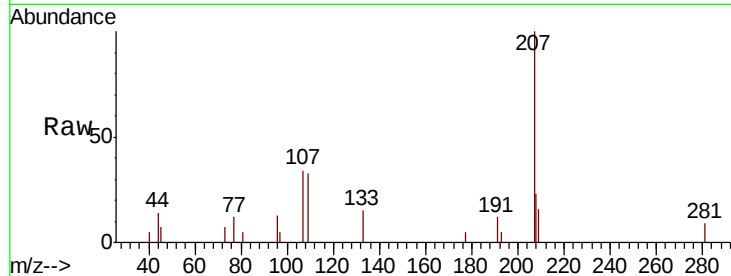
Ion Ratio Lower Upper

107 100

109 96.3 75.4 113.0

Manual Integrations
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#62

4-Bromofluorobenzene

Concen: 43.941 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN058703.D

Acq: 11 Oct 2019 15:14

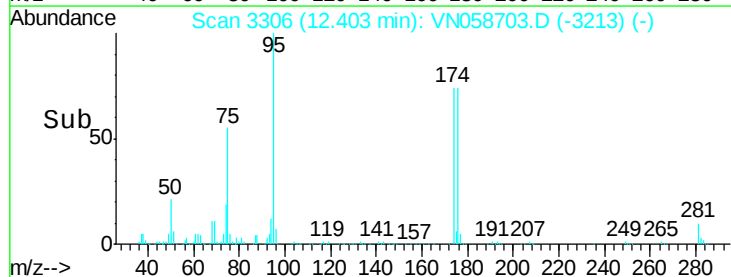
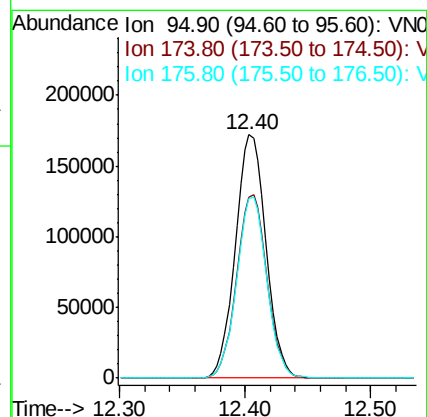
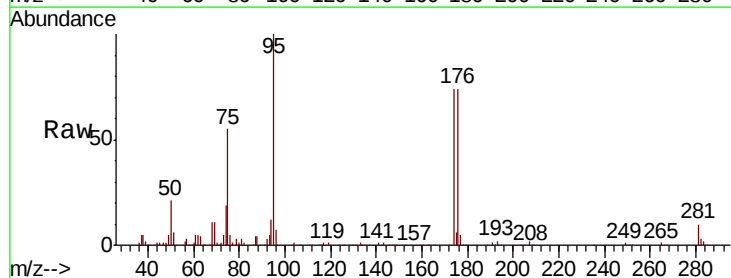
Tgt Ion: 95 Resp: 291170

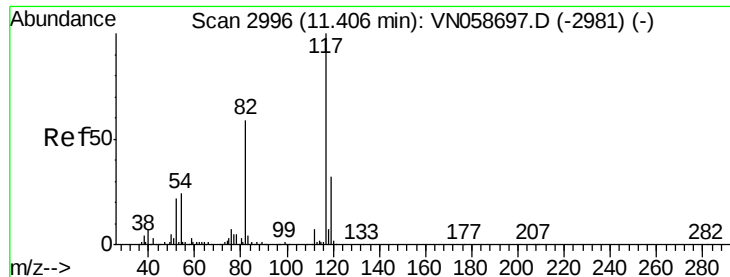
Ion Ratio Lower Upper

95 100

174 75.1 0.0 150.4

176 73.5 0.0 146.8





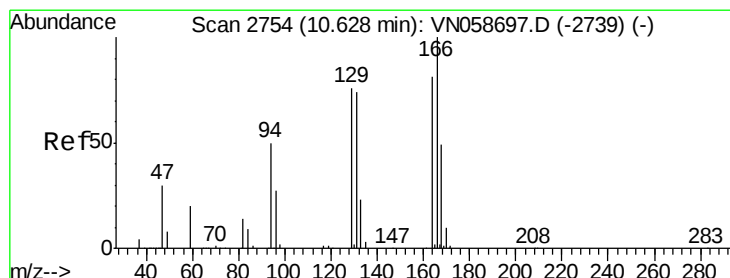
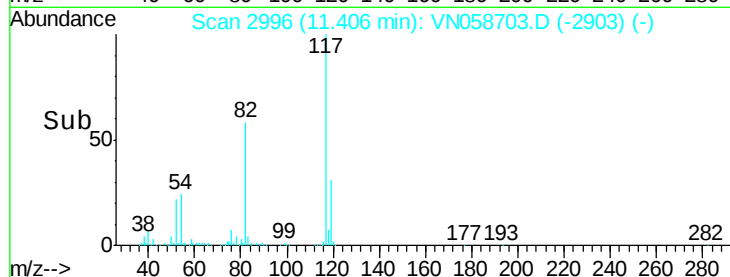
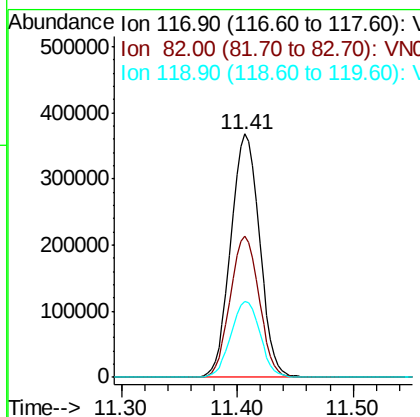
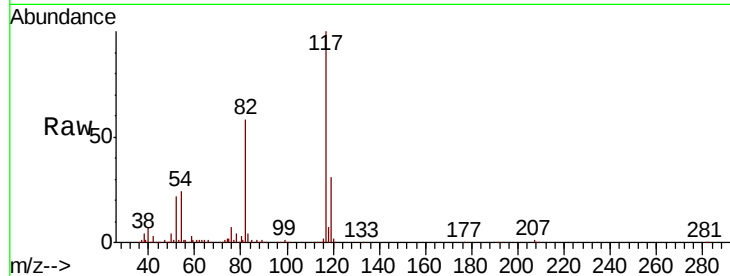
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN058703.D
Acq: 11 Oct 2019 15:14

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Resp	Lower	Upper
117	100	632185		
82	57.8		47.0	70.4
119	31.5		25.4	38.2

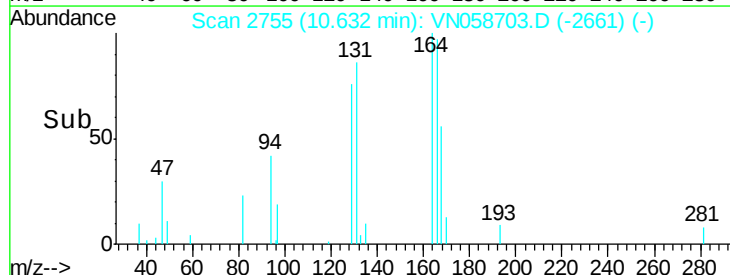
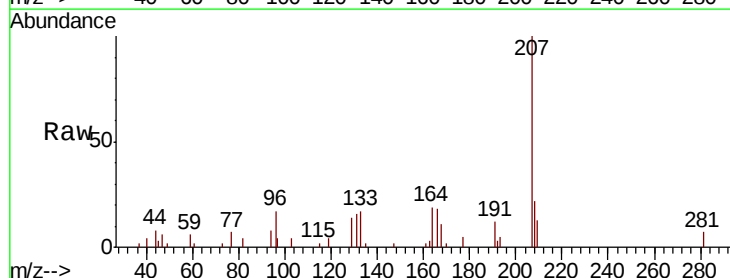
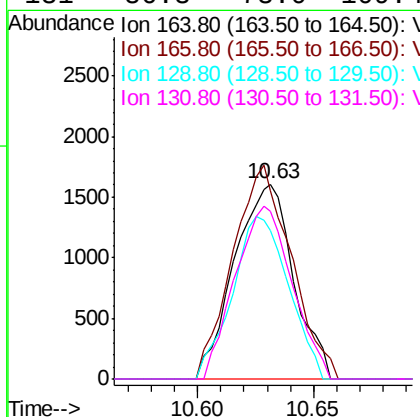
Manual Integrations
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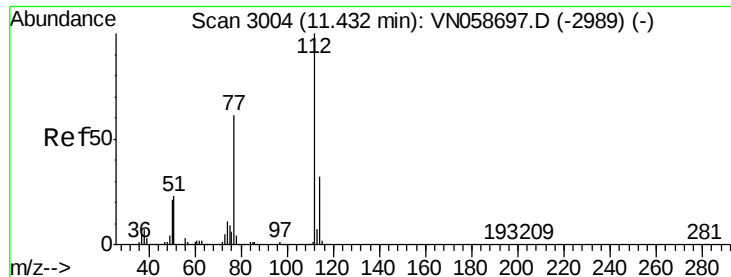
MMDadoda
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#64
Tetrachloroethene
Concen: 0.641 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN058703.D
Acq: 11 Oct 2019 15:14

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	2838		
166	96.8		99.3	148.9#
129	76.4		75.2	112.8
131	86.3		73.0	109.4





#65

Chlorobenzene

Concen: 0.493 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. 0.00 min

Lab File: VN058703.D

Acq: 11 Oct 2019 15:14

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion:112 Resp: 6330

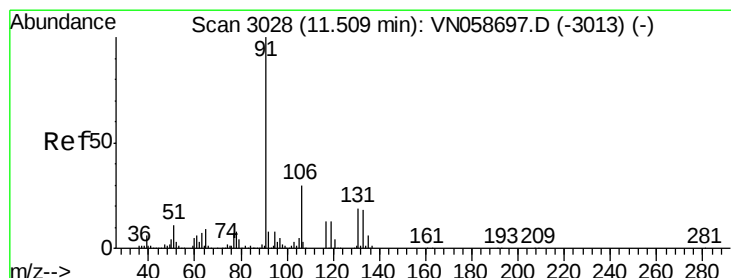
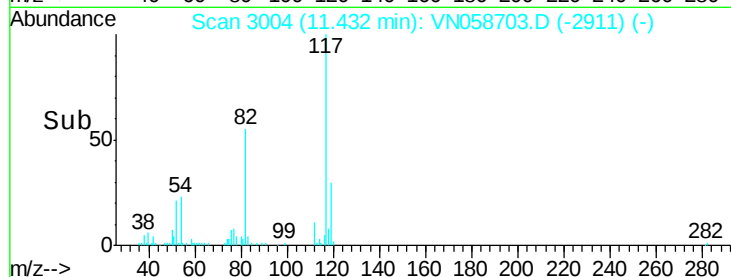
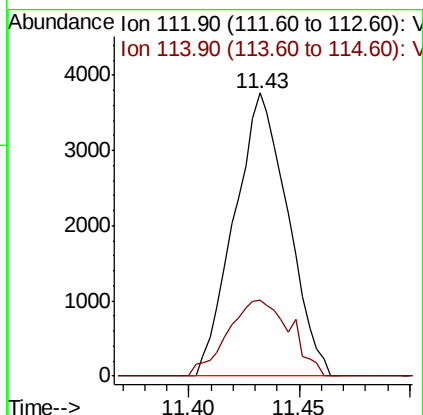
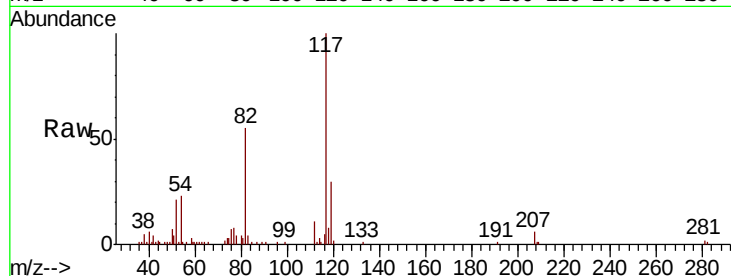
Ion Ratio Lower Upper

112 100

114 26.8 25.2 37.8

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#66

1,1,1,2-Tetrachloroethane

Concen: 0.449 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN058703.D

Acq: 11 Oct 2019 15:14

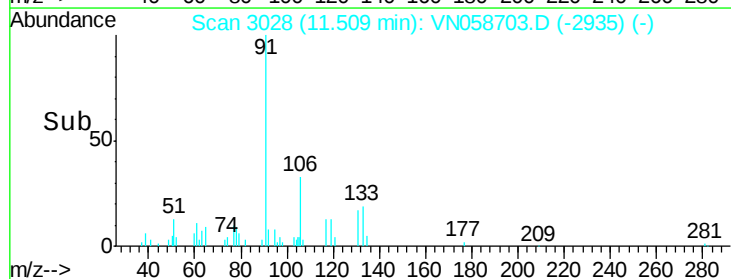
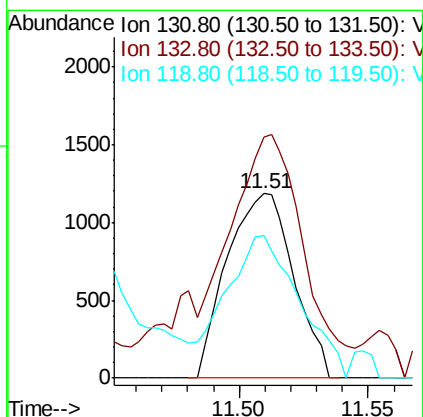
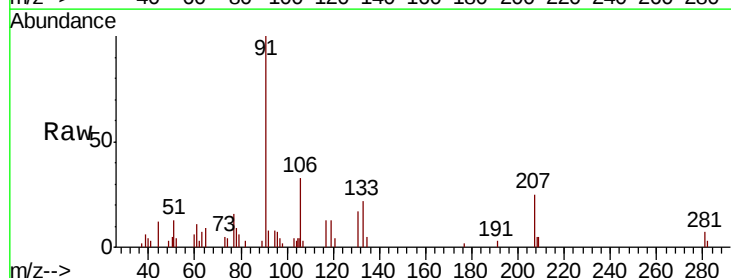
Tgt Ion:131 Resp: 2130

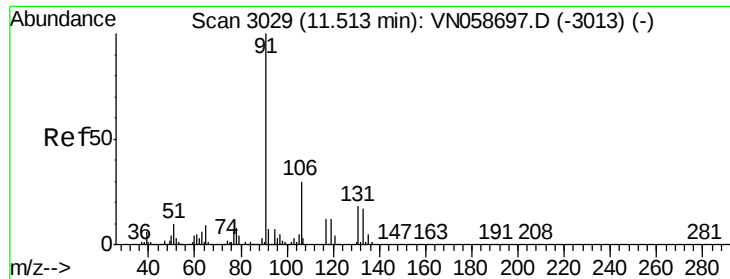
Ion Ratio Lower Upper

131 100

133 132.1 47.6 142.9

119 0.0 33.0 98.9#





#67

Ethyl Benzene

Concen: 0.501 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. -0.00 min

Lab File: VN058703.D

Acq: 11 Oct 2019 15:14

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion: 91 Resp: 11457

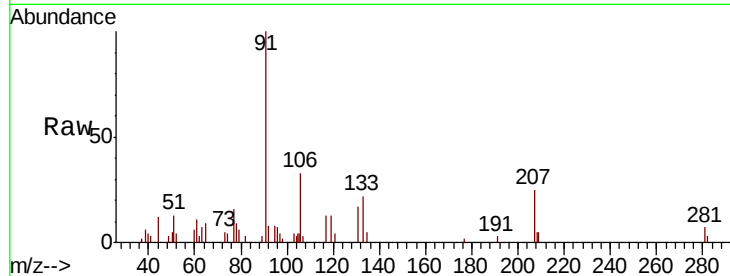
Ion Ratio Lower Upper

91 100

106 33.1 24.1 36.1

Manual Integrations
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Abundance Ion 91.00 (90.70 to 91.70): VN058697.D (-3013) (-)

Ion 106.00 (105.70 to 106.70): VN058697.D (-3013) (-)

8000

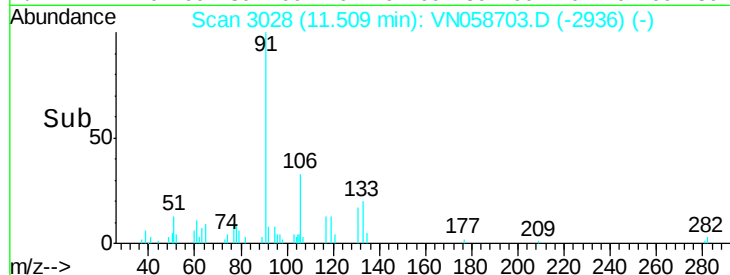
6000

4000

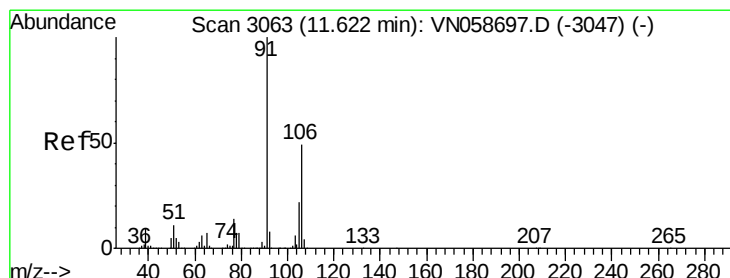
2000

0

11.45 11.50 11.55



Time-->



#68

m/p-Xylenes

Concen: 0.933 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. 0.00 min

Lab File: VN058703.D

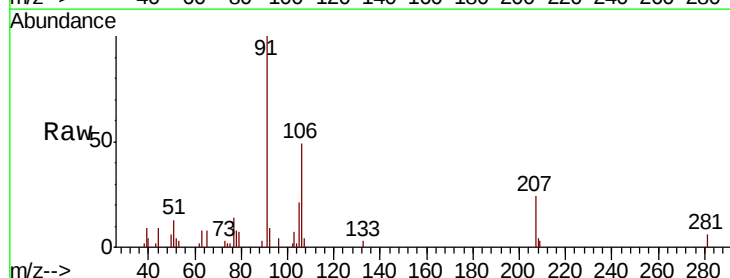
Acq: 11 Oct 2019 15:14

Tgt Ion: 106 Resp: 8009

Ion Ratio Lower Upper

106 100

91 208.0 165.7 248.5



Abundance Ion 106.00 (105.70 to 106.70): VN058697.D (-3047) (-)

Ion 91.00 (90.70 to 91.70): VN058697.D (-3047) (-)

10000

8000

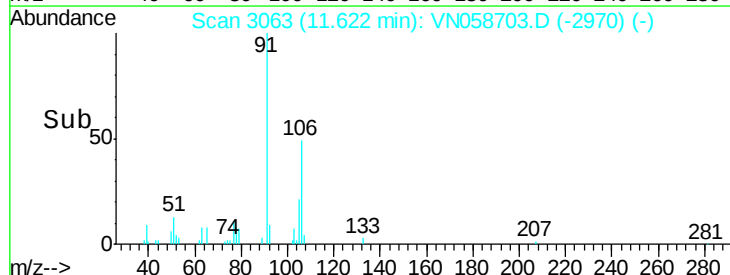
6000

4000

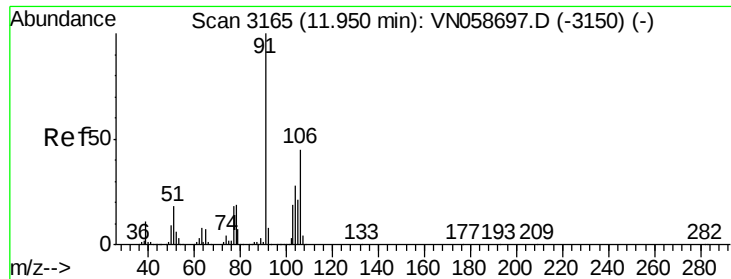
2000

0

11.55 11.60 11.65



Time-->



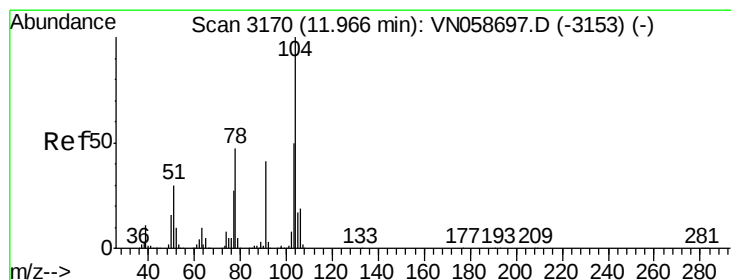
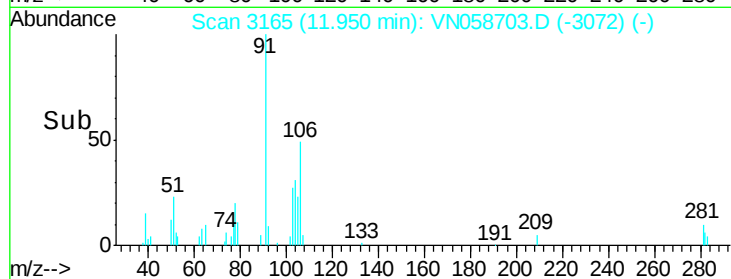
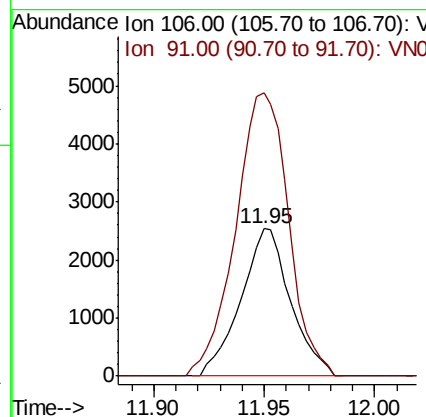
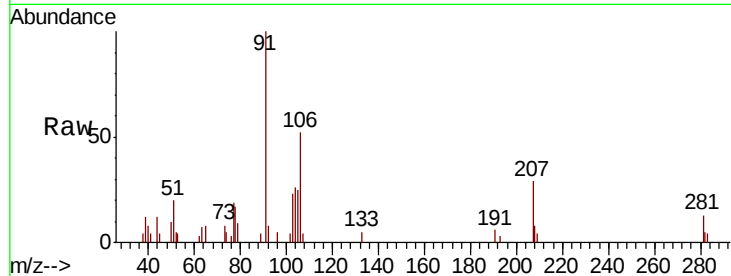
#69
o-Xylene
Concen: 0.478 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. 0.00 min
Lab File: VN058703.D
Acq: 11 Oct 2019 15:14

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion:106 Resp: 3975
Ion Ratio Lower Upper
106 100
91 205.0 110.9 332.9

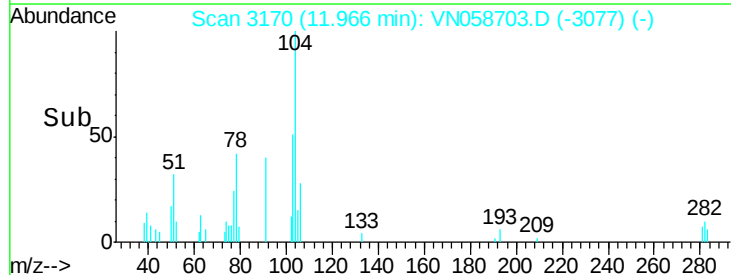
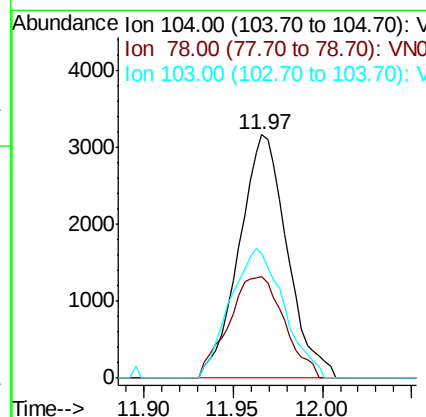
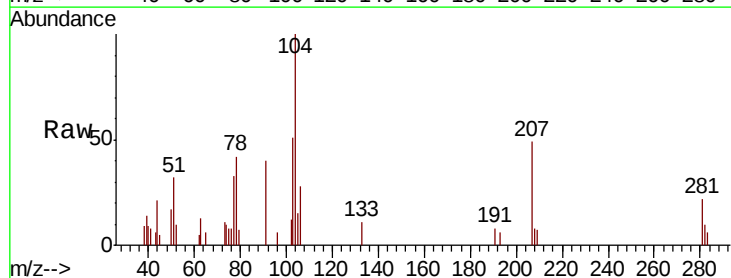
Manual Integrations
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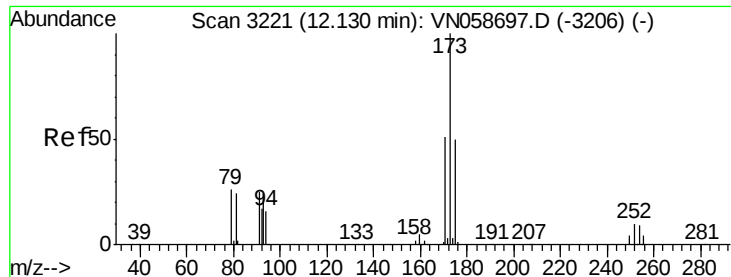
MMDadoda
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#70
Styrene
Concen: 0.434 ug/l
RT: 11.97 min Scan# 3170
Delta R.T. 0.00 min
Lab File: VN058703.D
Acq: 11 Oct 2019 15:14

Tgt Ion:104 Resp: 5916
Ion Ratio Lower Upper
104 100
78 48.1 42.2 63.2
103 59.4 43.7 65.5





#71

Bromoform

Concen: 0.378 ug/l

RT: 12.13 min Scan# 3222

Delta R.T. 0.00 min

Lab File: VN058703.D

Acq: 11 Oct 2019 15:14

Instrument :

MSVOA_N

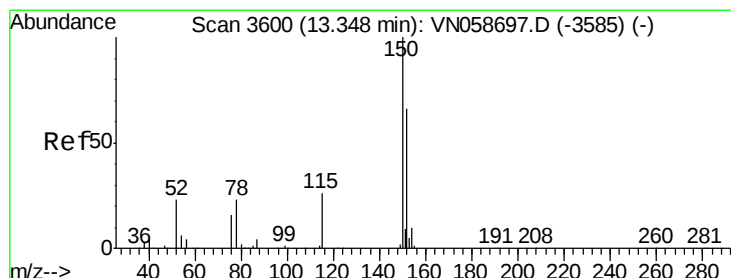
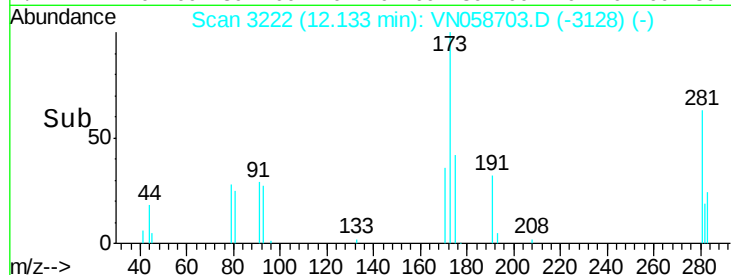
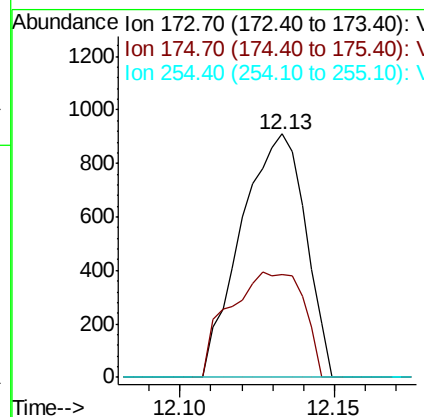
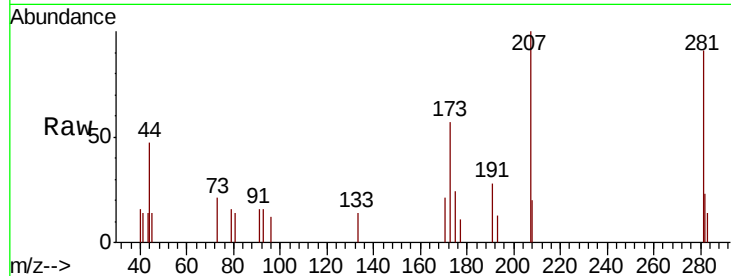
ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion:	173	Resp:	1315
Ion Ratio	Lower	Upper	
173	100		
175	50.1	24.6	73.8
254	0.0	0.1	0.1#

Manual Integrations
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10/16/2019 12:48:31 AM



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

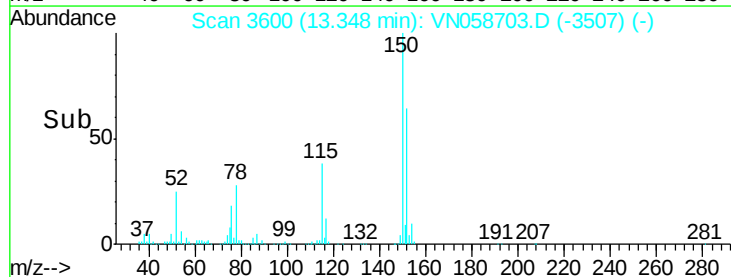
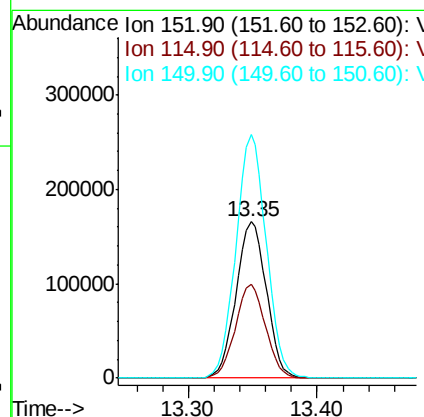
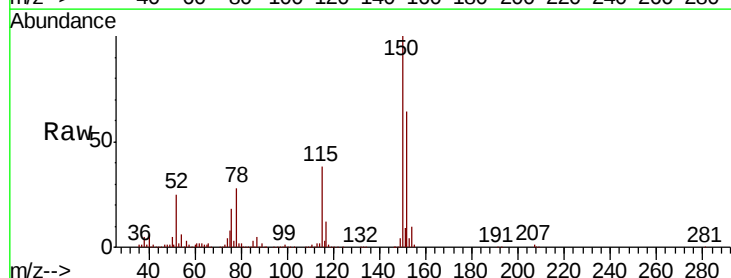
RT: 13.35 min Scan# 3600

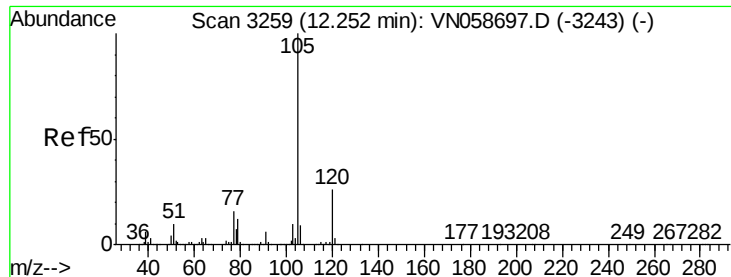
Delta R.T. 0.00 min

Lab File: VN058703.D

Acq: 11 Oct 2019 15:14

Tgt Ion:	152	Resp:	270865
Ion Ratio	Lower	Upper	
152	100		
115	59.0	30.4	91.2
150	155.3	0.0	345.4





#73

Isopropylbenzene

Concen: 0.525 ug/l

RT: 12.25 min Scan# 3259

Delta R.T. 0.00 min

Lab File: VN058703.D

Acq: 11 Oct 2019 15:14

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion: 105 Resp: 10296

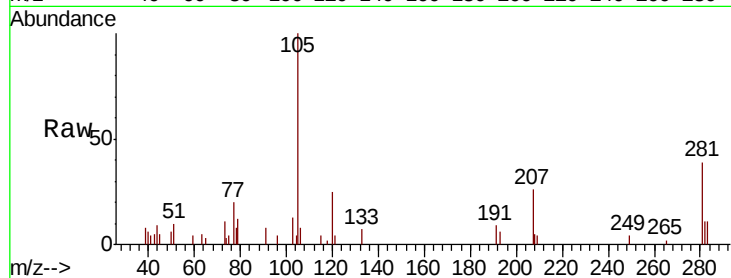
Ion Ratio Lower Upper

105 100

120 23.0 13.1 39.1

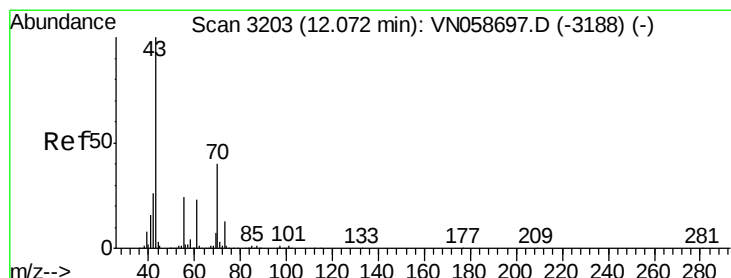
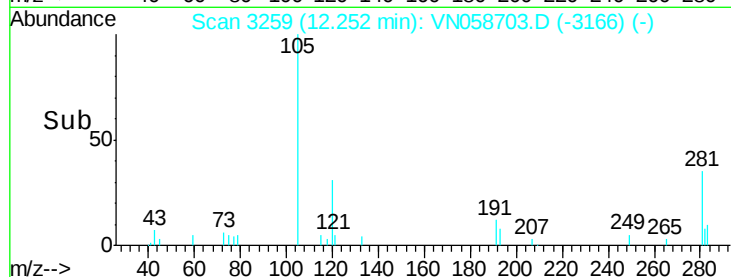
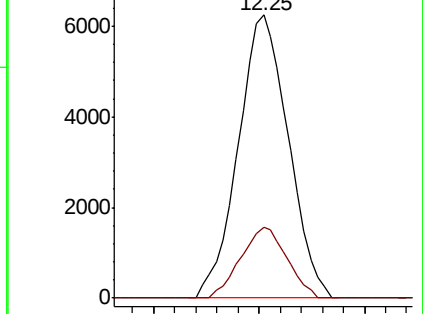
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 0.448 ug/l

RT: 12.07 min Scan# 3203

Delta R.T. 0.00 min

Lab File: VN058703.D

Acq: 11 Oct 2019 15:14

Tgt Ion: 43 Resp: 3951

Ion Ratio Lower Upper

43 100

70 40.8 32.2 48.4

55 13.8 19.6 29.4

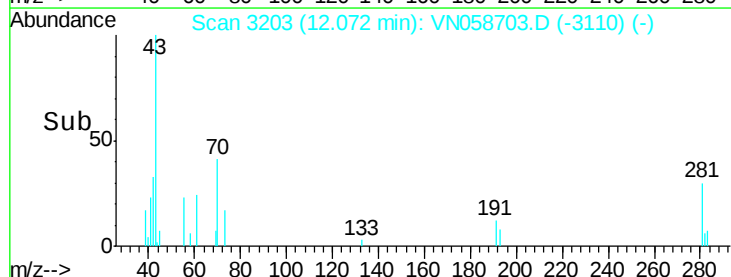
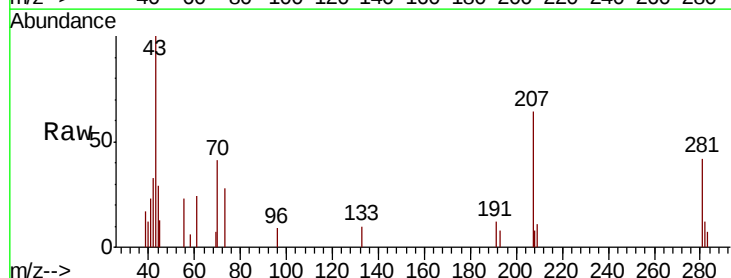
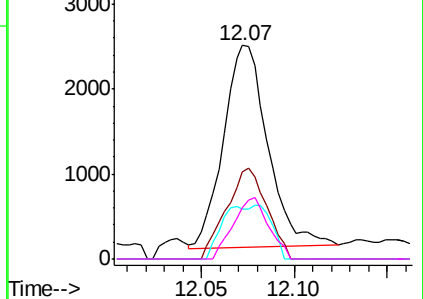
61 24.0 18.6 28.0

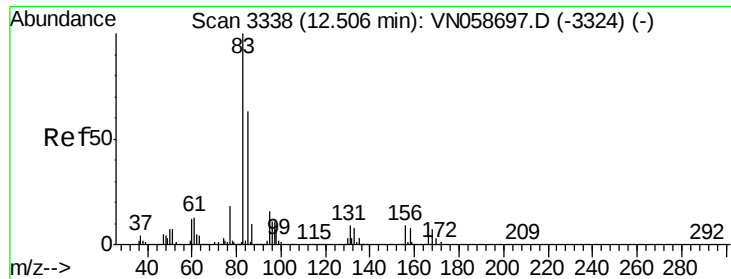
Abundance Ion 43.00 (42.70 to 43.70): VNC

Ion 70.00 (69.70 to 70.70): VNC

Ion 55.00 (54.70 to 55.70): VNC

Ion 61.00 (60.70 to 61.70): VNC





#75

1,1,2,2-Tetrachloroethane

Concen: 0.538 ug/l

RT: 12.51 min Scan# 3338

Delta R.T. 0.00 min

Lab File: VN058703.D

Acq: 11 Oct 2019 15:14

Instrument :

MSVOA_N

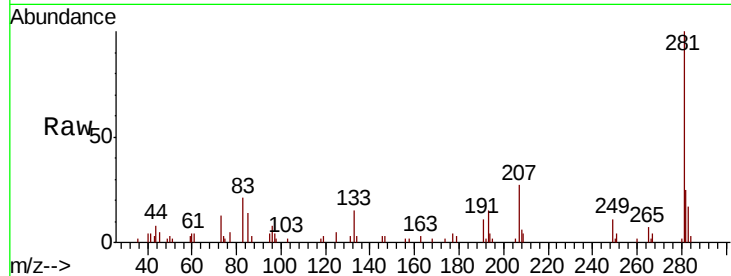
ClientSampleId :

LOQ-WATER-02-QT4-2019

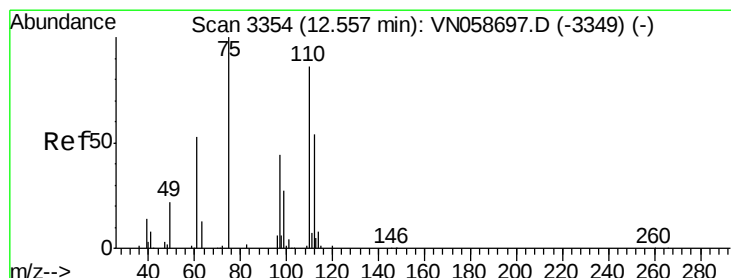
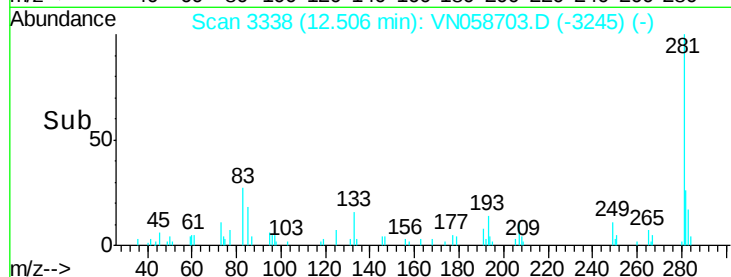
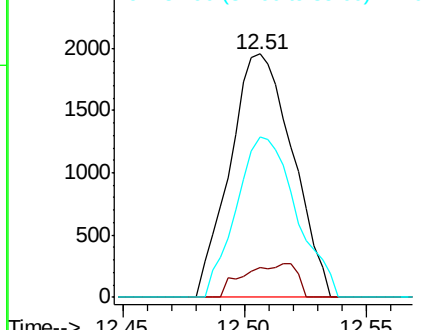
Tot Ion:	83	Resp:	3476
Ion Ratio	Lower	Upper	
83	100		
131	11.7	4.8	14.4
85	63.4	31.9	95.5

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Abundance Ion 82.90 (82.60 to 83.60): VN058703.D (-3245) (-)



#76

1,2,3-Trichloropropane

Concen: 0.738 ug/l m

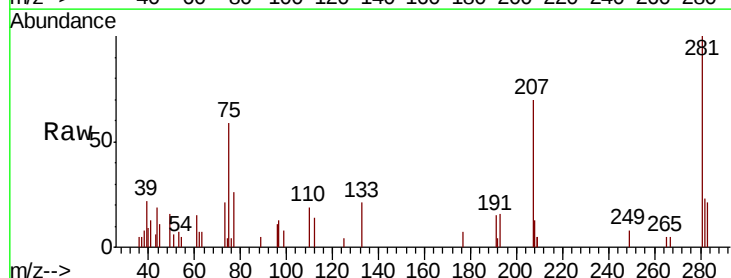
RT: 12.56 min Scan# 3354

Delta R.T. 0.00 min

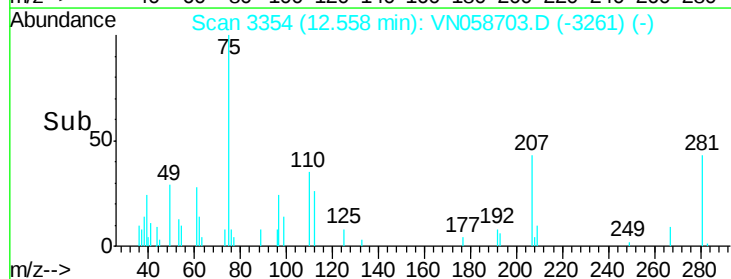
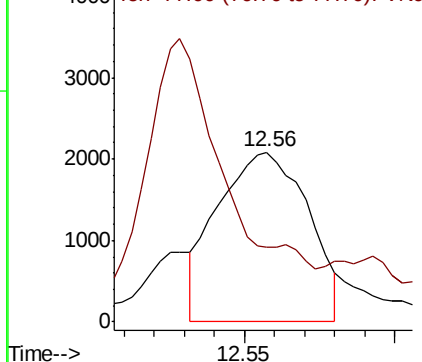
Lab File: VN058703.D

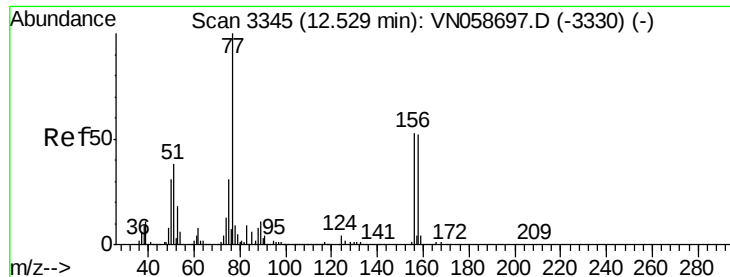
Acq: 11 Oct 2019 15:14

Tgt Ion:	75	Resp:	4388
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0



Abundance Ion 74.90 (74.60 to 75.60): VN058703.D (-3261) (-)





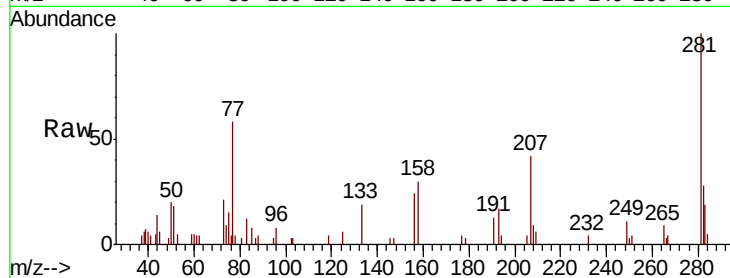
#77
Bromobenzene
Concen: 0.493 ug/l
RT: 12.53 min Scan# 3344
Delta R.T. -0.00 min
Lab File: VN058703.D
Acq: 11 Oct 2019 15:14

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2019

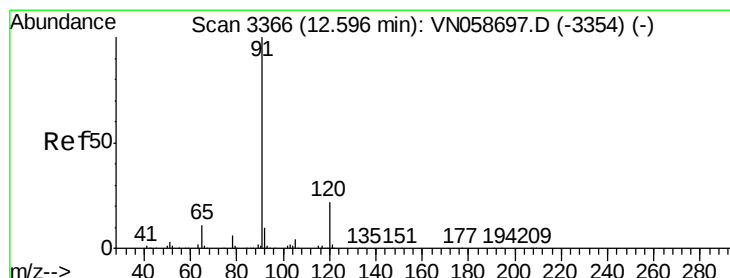
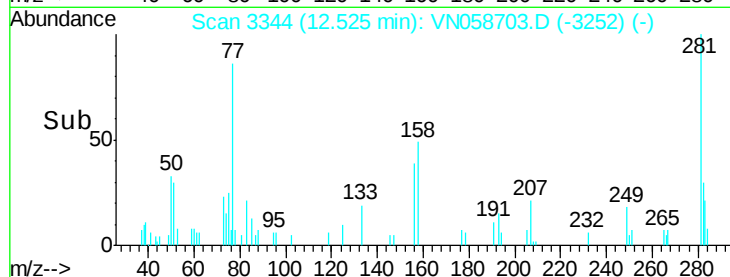
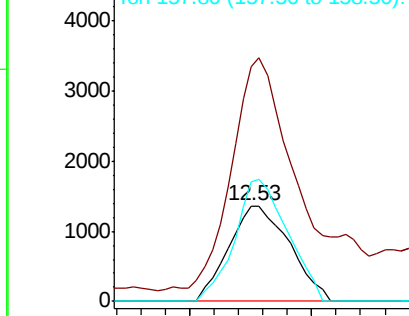
Tot Ion	Ratio	Lower	Upper
156	100		
77	237.4	115.8	347.3
158	111.1	48.9	146.6

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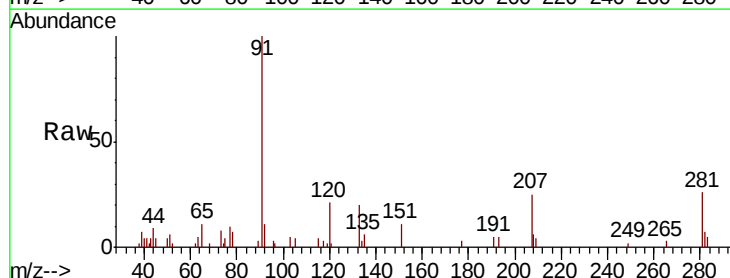


Abundance Ion 155.80 (155.50 to 156.50): V
Ion 77.00 (76.70 to 77.70): VN0
Ion 157.80 (157.50 to 158.50): V

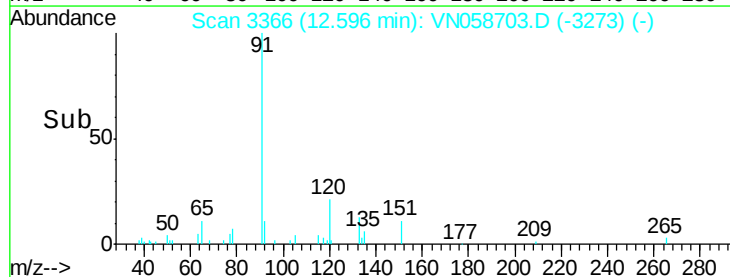
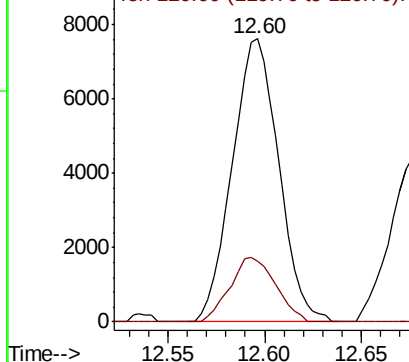


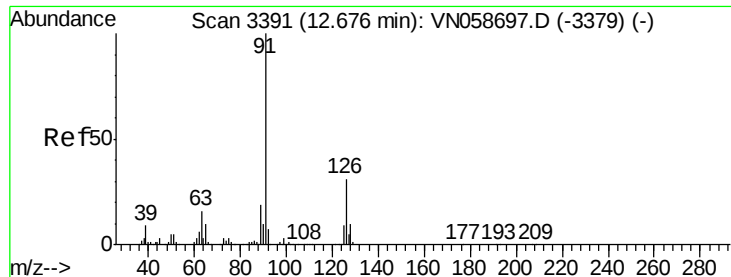
#78
n-propylbenzene
Concen: 0.556 ug/l
RT: 12.60 min Scan# 3366
Delta R.T. 0.00 min
Lab File: VN058703.D
Acq: 11 Oct 2019 15:14

Tgt Ion	Ratio	Lower	Upper
91	100		
120	22.3	11.1	33.3



Abundance Ion 91.00 (90.70 to 91.70): VN0
Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 0.573 ug/l

RT: 12.68 min Scan# 3392

Delta R.T. 0.00 min

Lab File: VN058703.D

Acq: 11 Oct 2019 15:14

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion: 91 Resp: 8125

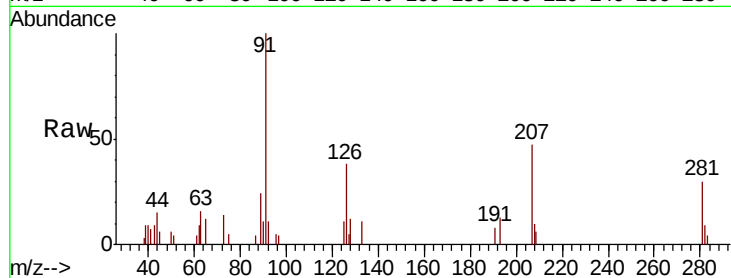
Ion Ratio Lower Upper

91 100

126 33.4 16.2 48.5

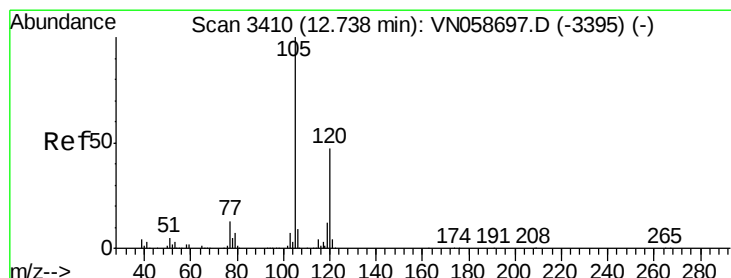
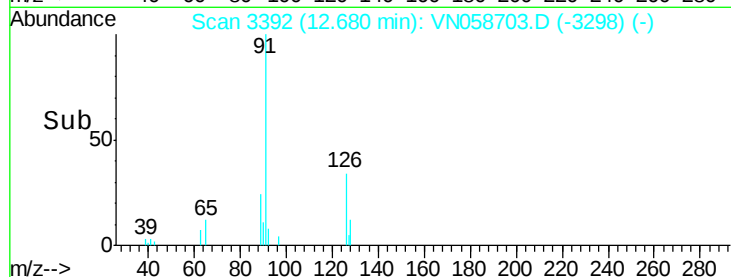
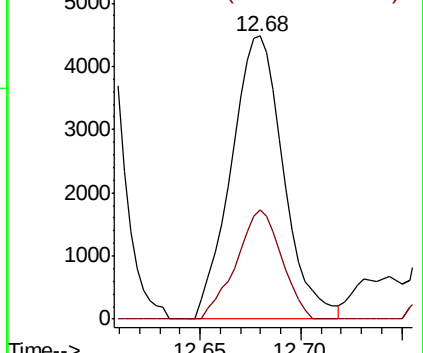
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Abundance Ion 91.00 (90.70 to 91.70): VN058697.D (-3379) (-)

Ion 125.90 (125.60 to 126.60): VN058697.D (-3379) (-)



#80

1,3,5-Trimethylbenzene

Concen: 0.506 ug/l

RT: 12.74 min Scan# 3410

Delta R.T. 0.00 min

Lab File: VN058703.D

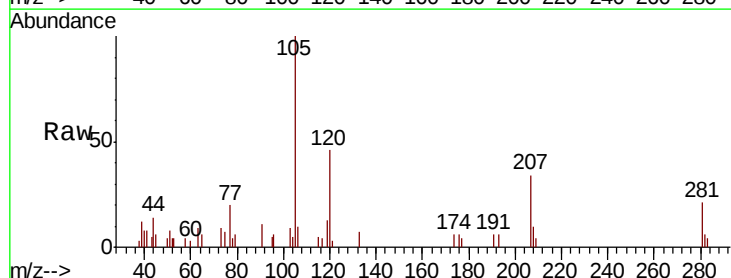
Acq: 11 Oct 2019 15:14

Tgt Ion: 105 Resp: 8473

Ion Ratio Lower Upper

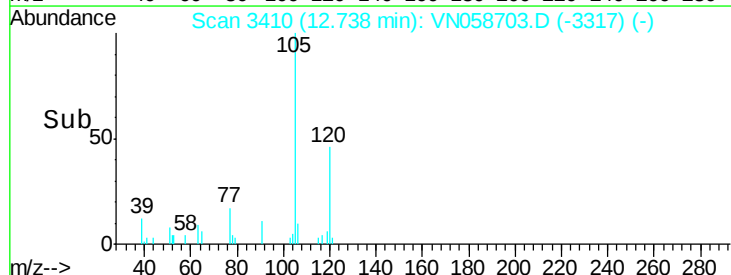
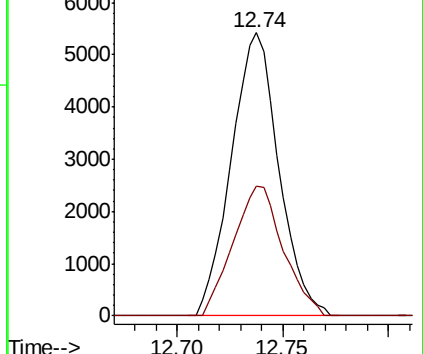
105 100

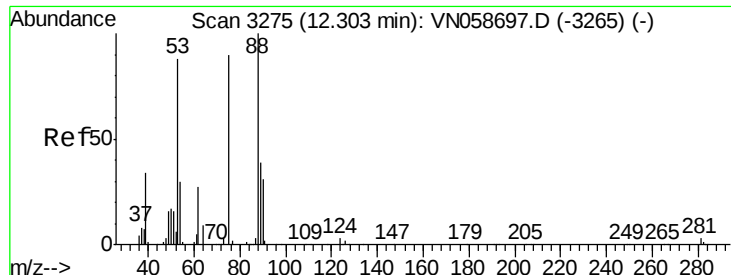
120 48.3 23.4 70.2



Abundance Ion 105.00 (104.70 to 105.70): VN058697.D (-3395) (-)

Ion 120.00 (119.70 to 120.70): VN058697.D (-3395) (-)





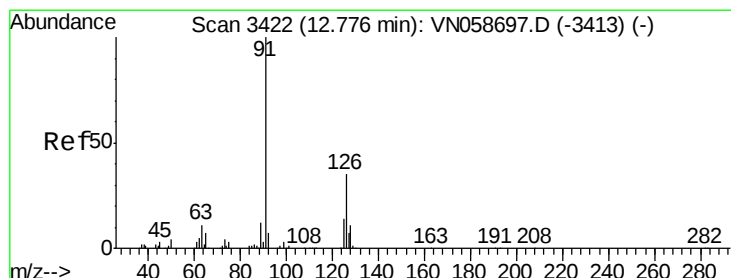
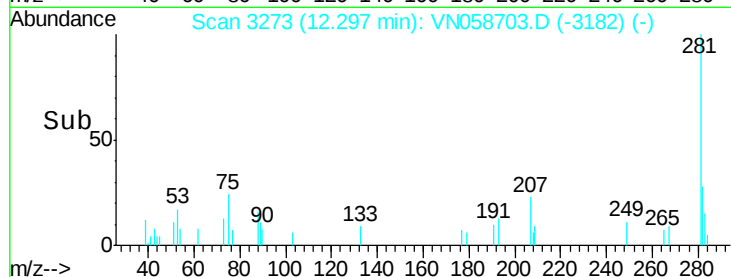
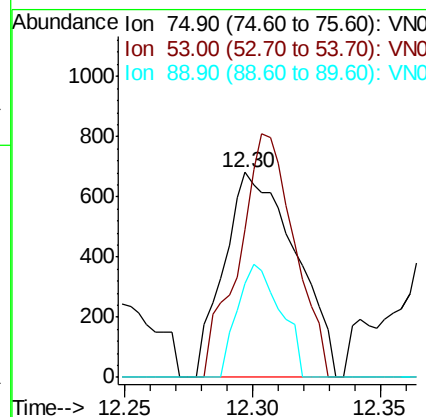
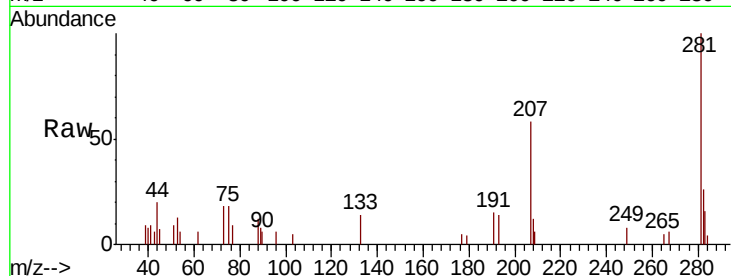
#81
trans-1,4-Dichloro-2-butene
Concen: 0.598 ug/l m
RT: 12.30 min Scan# 3273
Delta R.T. -0.01 min
Lab File: VN058703.D
Acq: 11 Oct 2019 15:14

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion: 75 Resp: 1327
Ion Ratio Lower Upper
75 100
53 0.0 78.4 117.6#
89 0.0 34.9 52.3#

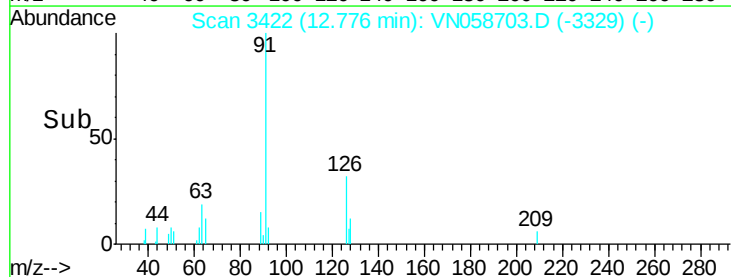
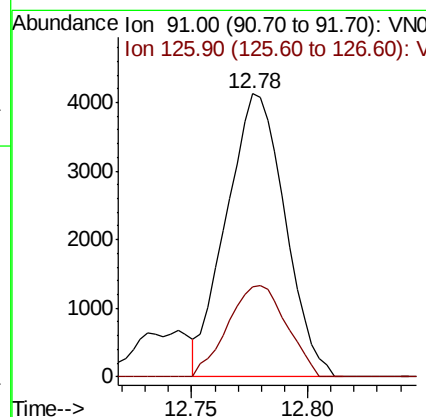
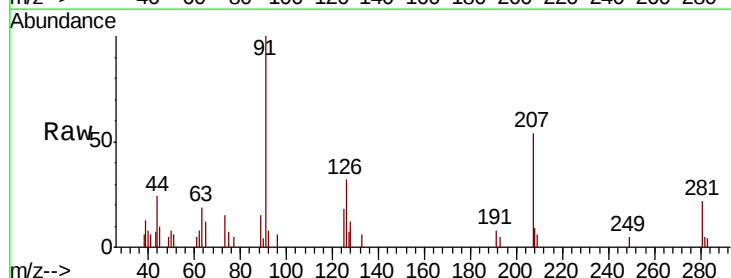
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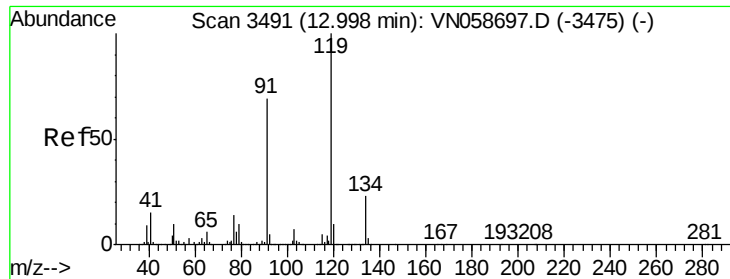
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#82
4-Chlorotoluene
Concen: 0.497 ug/l
RT: 12.78 min Scan# 3422
Delta R.T. 0.00 min
Lab File: VN058703.D
Acq: 11 Oct 2019 15:14

Tgt Ion: 91 Resp: 7243
Ion Ratio Lower Upper
91 100
126 32.3 15.9 47.6





#83

tert-Butylbenzene

Concen: 0.535 ug/l

RT: 13.00 min Scan# 3491

Delta R.T. 0.00 min

Lab File: VN058703.D

Acq: 11 Oct 2019 15:14

Instrument :

MSVOA_N

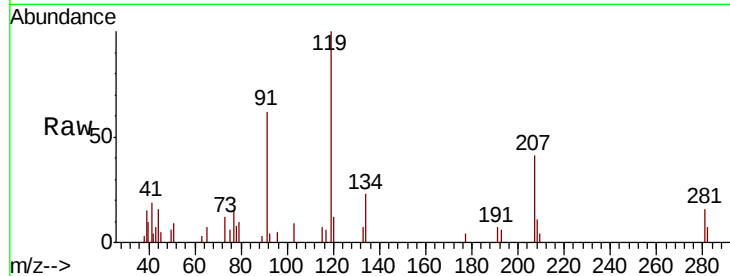
ClientSampleId :

LOQ-WATER-02-QT4-2019

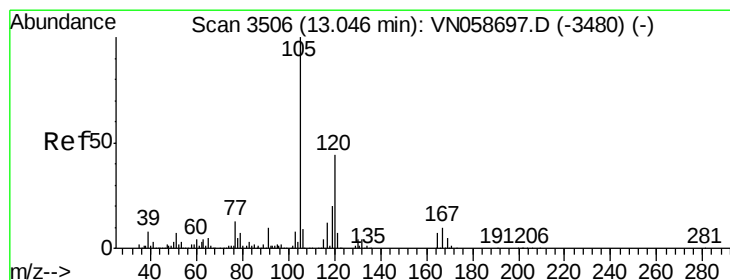
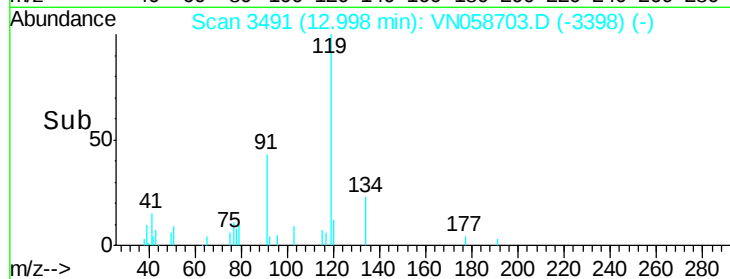
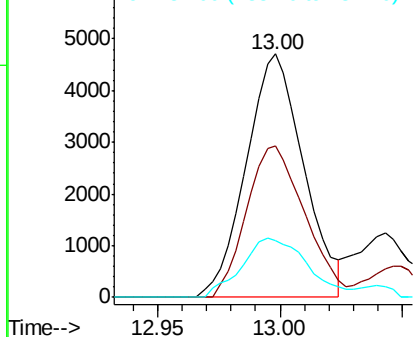
Tot Ion:	119	Resp:	7677
Ion	Ratio	Lower	Upper
119	100		
91	63.0	33.8	101.3
134	27.6	12.6	37.6

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Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): V
Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 0.512 ug/l

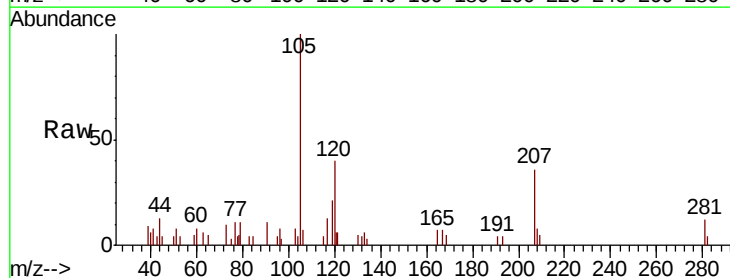
RT: 13.05 min Scan# 3506

Delta R.T. 0.00 min

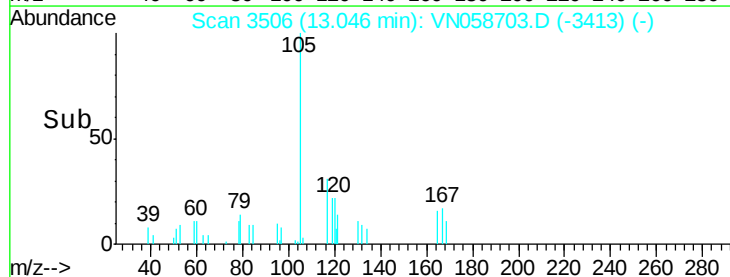
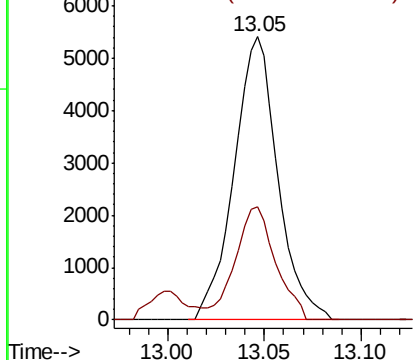
Lab File: VN058703.D

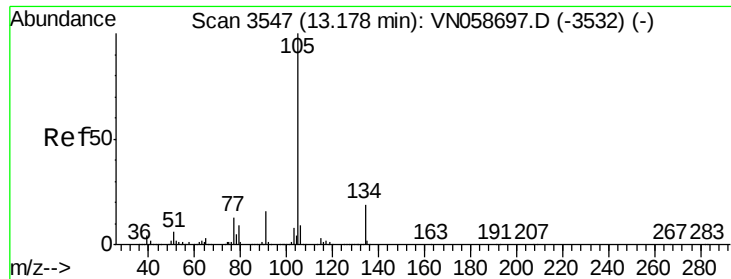
Acq: 11 Oct 2019 15:14

Tgt Ion:	105	Resp:	8516
Ion	Ratio	Lower	Upper
105	100		
120	37.3	21.9	65.7



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 0.485 ug/l

RT: 13.18 min Scan# 3547

Delta R.T. 0.00 min

Lab File: VN058703.D

Acq: 11 Oct 2019 15:14

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion:105 Resp: 9173

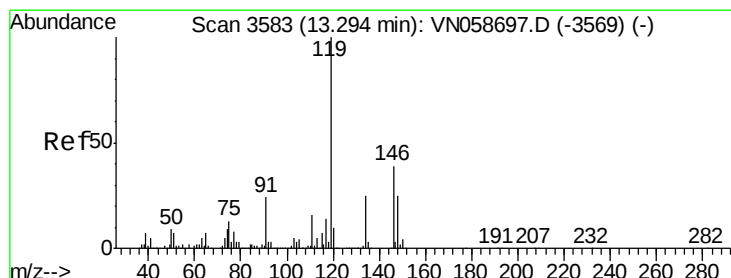
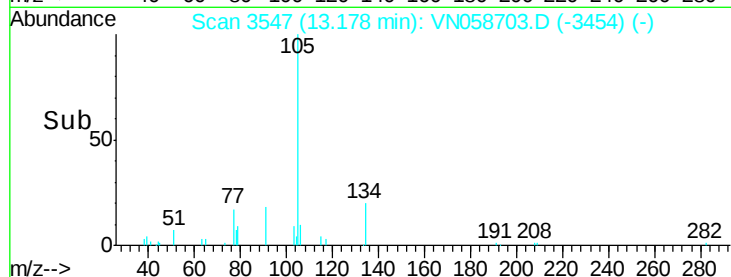
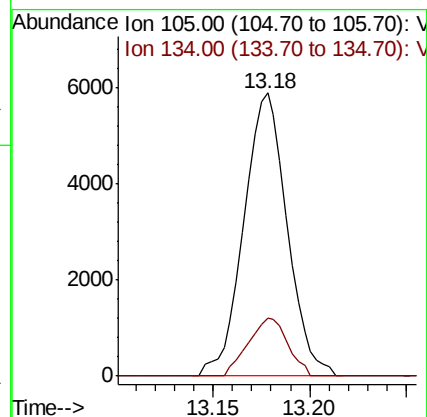
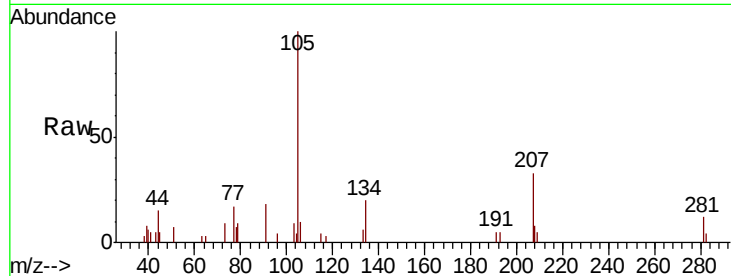
Ion Ratio Lower Upper

105 100

134 18.7 9.7 29.1

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#86

p-Isopropyltoluene

Concen: 0.524 ug/l

RT: 13.29 min Scan# 3583

Delta R.T. 0.00 min

Lab File: VN058703.D

Acq: 11 Oct 2019 15:14

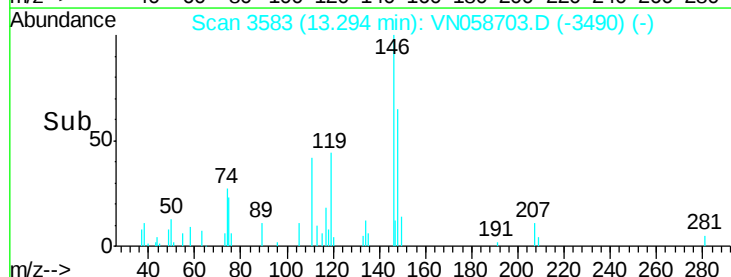
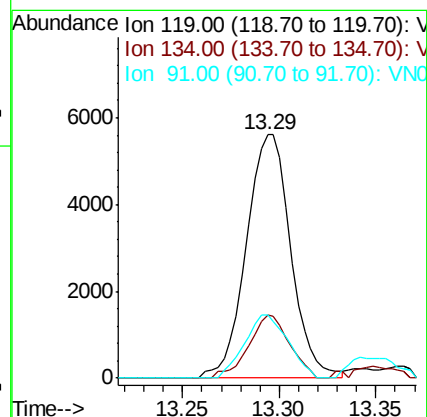
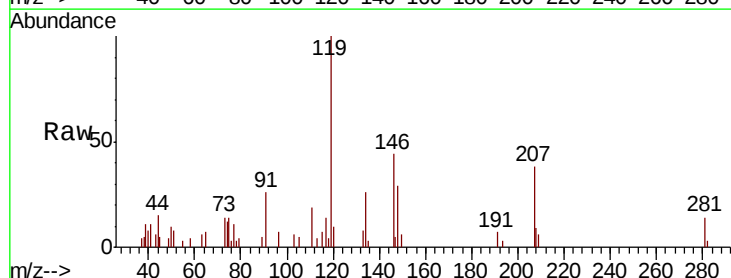
Tgt Ion:119 Resp: 8996

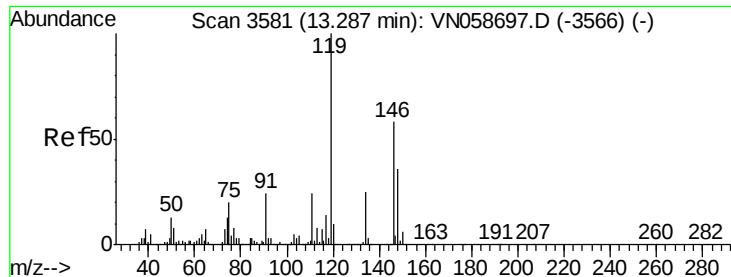
Ion Ratio Lower Upper

119 100

134 23.8 12.7 38.1

91 25.4 11.9 35.5





#87

1,3-Dichlorobenzene

Concen: 0.544 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.00 min

Lab File: VN058703.D

Acq: 11 Oct 2019 15:14

Instrument :

MSVOA_N

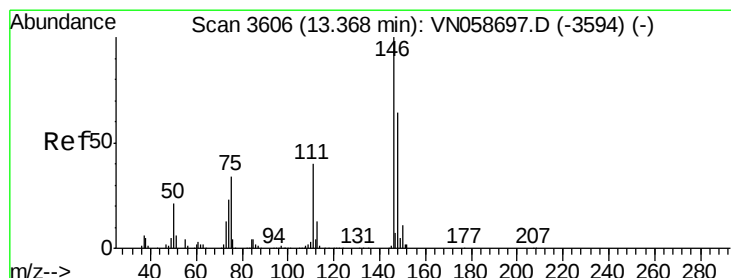
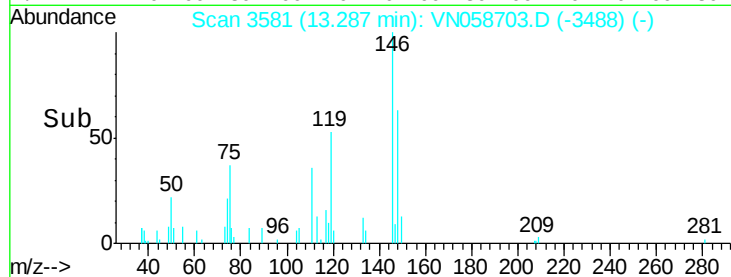
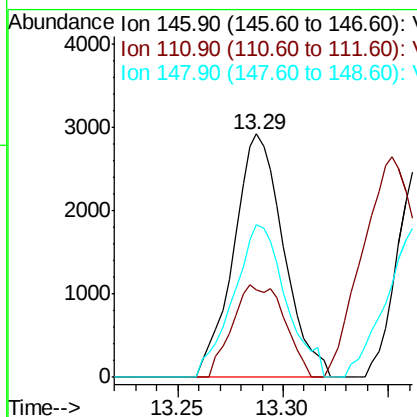
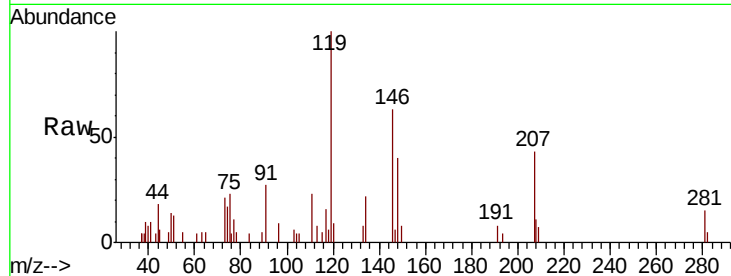
ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion:	146	Resp:	4786
Ion Ratio	Lower	Upper	
146	100		
111	39.7	20.5	61.6
148	65.9	31.3	93.9

Manual Integrations
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#88

1,4-Dichlorobenzene

Concen: 0.545 ug/l m

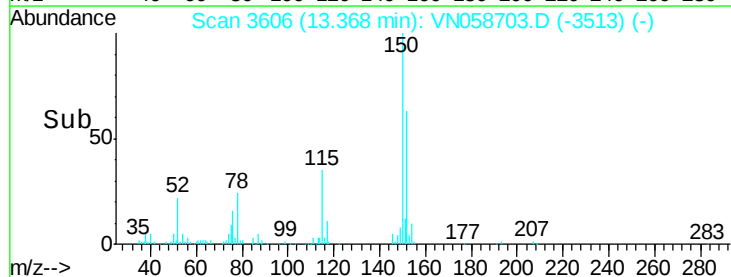
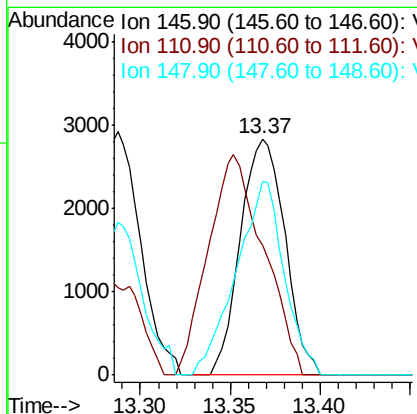
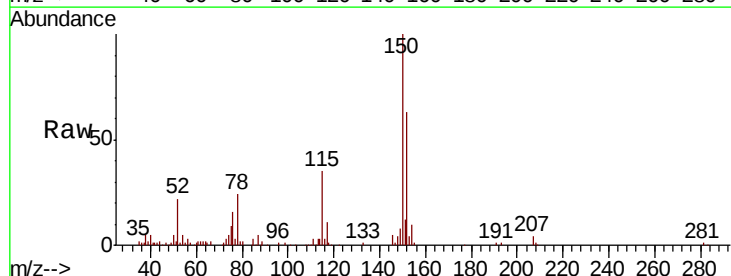
RT: 13.37 min Scan# 3606

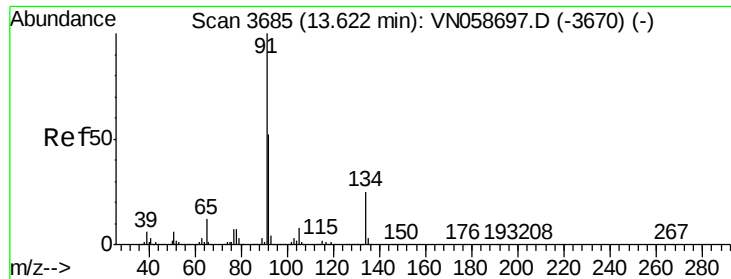
Delta R.T. 0.00 min

Lab File: VN058703.D

Acq: 11 Oct 2019 15:14

Tgt Ion:	146	Resp:	4878
Ion Ratio	Lower	Upper	
146	100		
111	39.0	20.1	60.2
148	64.7	31.9	95.7





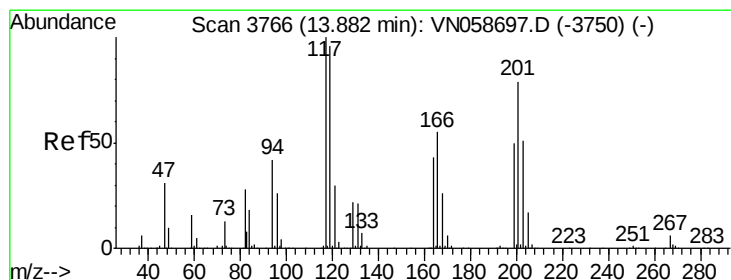
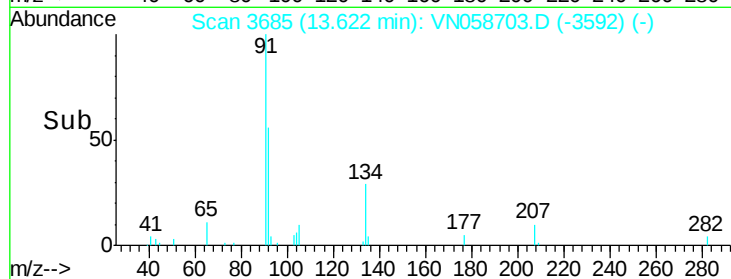
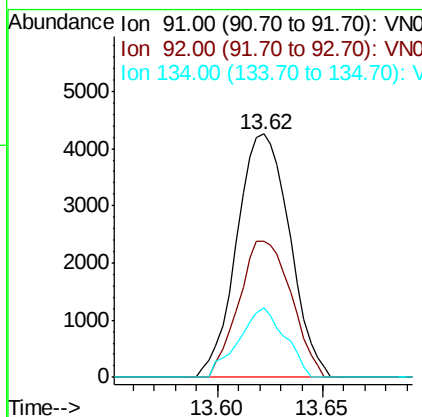
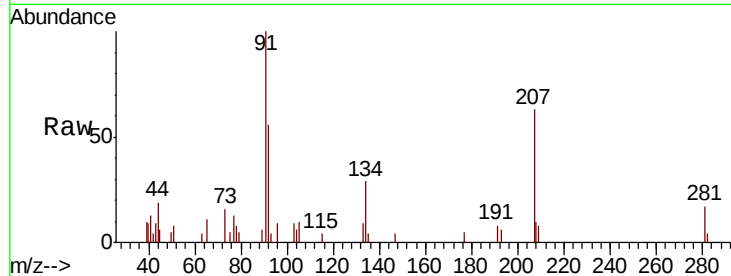
#89
n-Butylbenzene
Concen: 0.466 ug/l
RT: 13.62 min Scan# 3685
Delta R.T. 0.00 min
Lab File: VN058703.D
Acq: 11 Oct 2019 15:14

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
91	100		
92	55.5	26.0	78.0
134	25.0	12.2	36.6

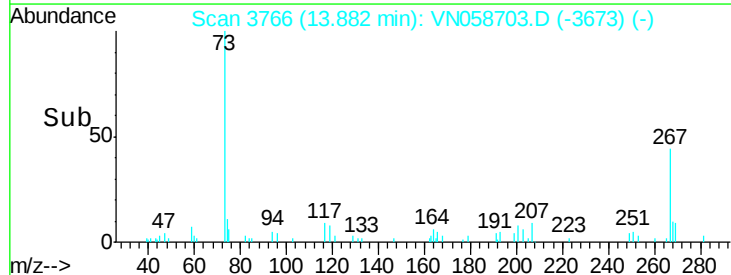
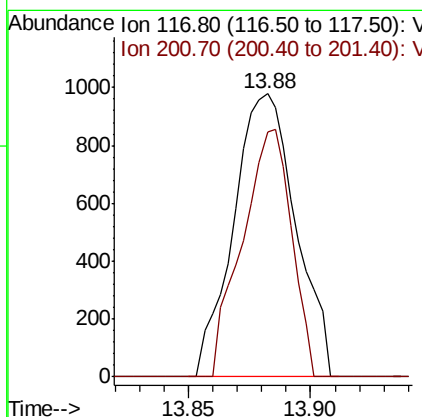
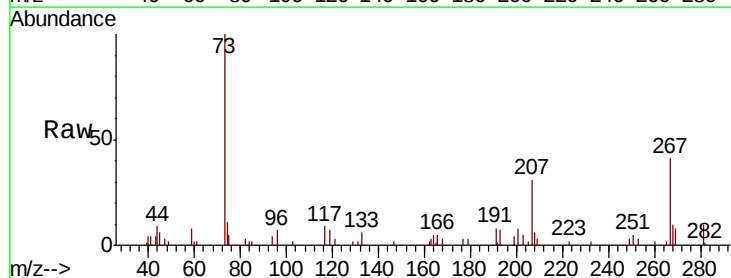
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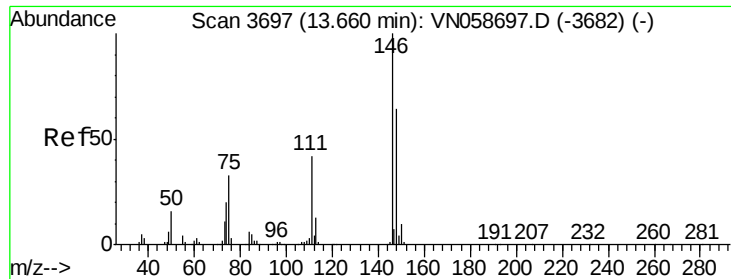
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10/16/2019 12:48:31 AM



#90
Hexachloroethane
Concen: 0.564 ug/l
RT: 13.88 min Scan# 3766
Delta R.T. 0.00 min
Lab File: VN058703.D
Acq: 11 Oct 2019 15:14

Tgt Ion	Ratio	Lower	Upper
117	100		
201	69.2	39.6	118.7





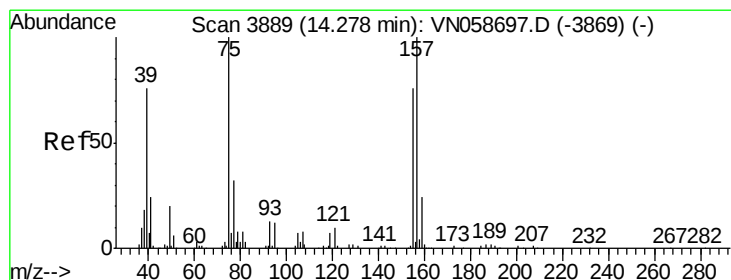
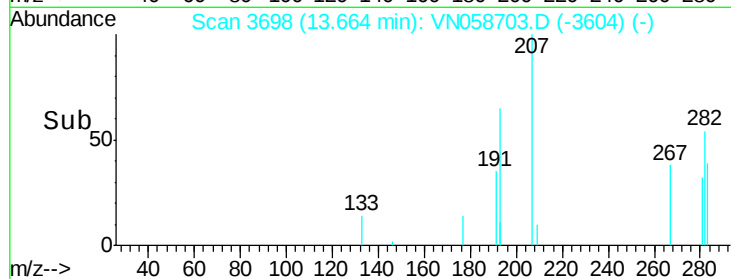
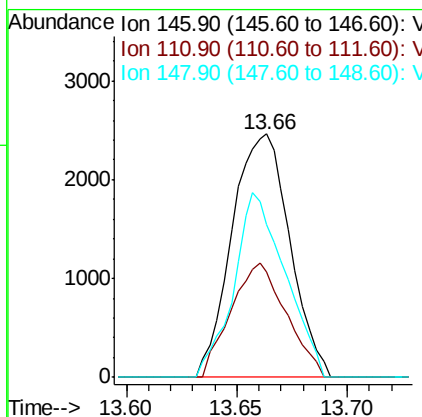
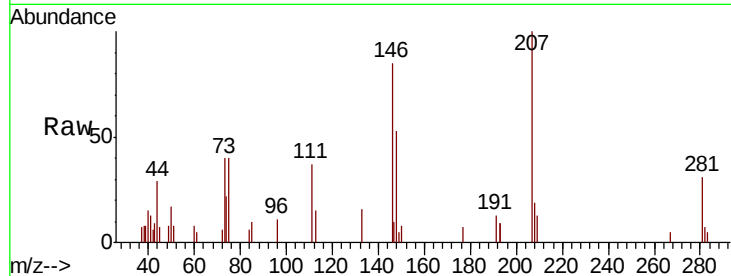
#91
 1,2-Dichlorobenzene
 Concen: 0.522 ug/l
 RT: 13.66 min Scan# 3698
 Delta R.T. 0.00 min
 Lab File: VN058703.D
 Acq: 11 Oct 2019 15:14

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	44.9	21.1	63.4
148	67.6	31.8	95.3

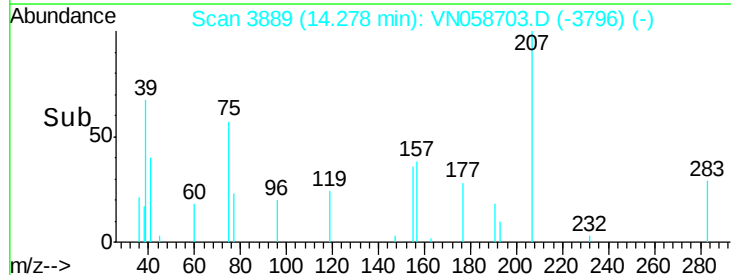
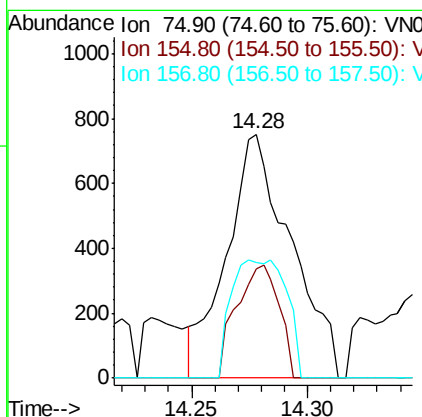
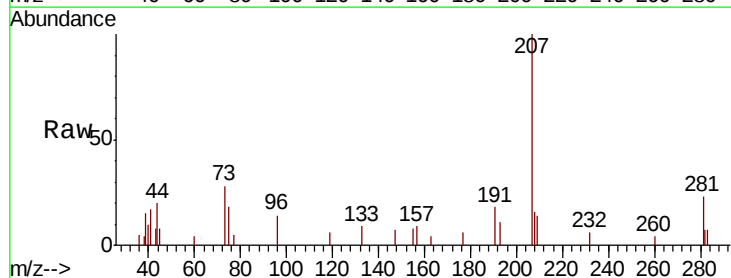
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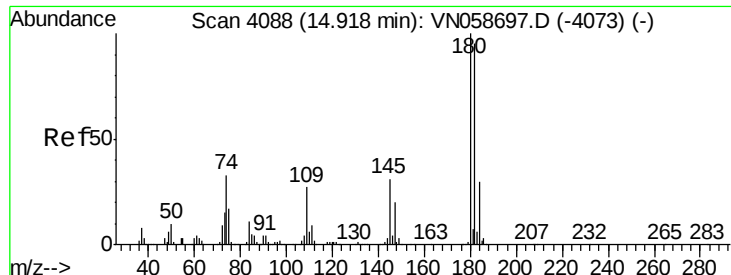
MMDadoda
 10/16/2019 12:48:31 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.958 ug/l
 RT: 14.28 min Scan# 3889
 Delta R.T. 0.00 min
 Lab File: VN058703.D
 Acq: 11 Oct 2019 15:14

Tgt Ion	Ratio	Lower	Upper
75	100		
155	30.6	37.9	113.6#
157	41.1	49.4	148.2#





#93

1,2,4-Trichlorobenzene

Concen: 0.551 ug/l

RT: 14.92 min Scan# 4088

Delta R.T. 0.00 min

Lab File: VN058703.D

Acq: 11 Oct 2019 15:14

Instrument :

MSVOA_N

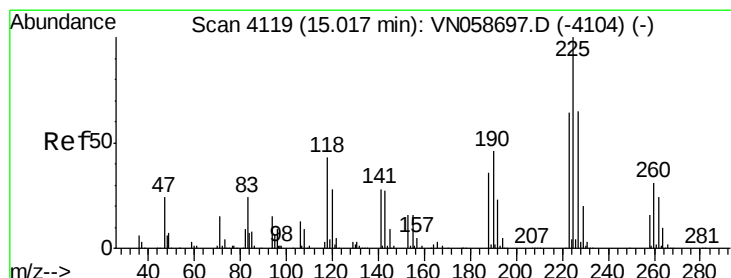
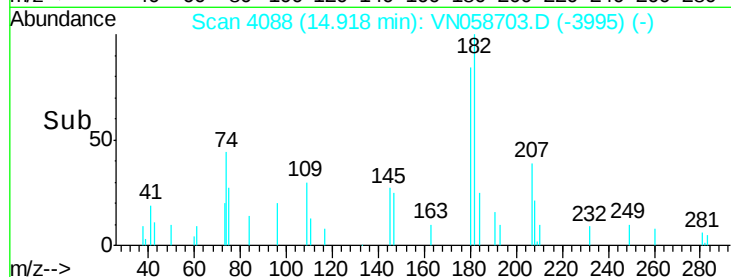
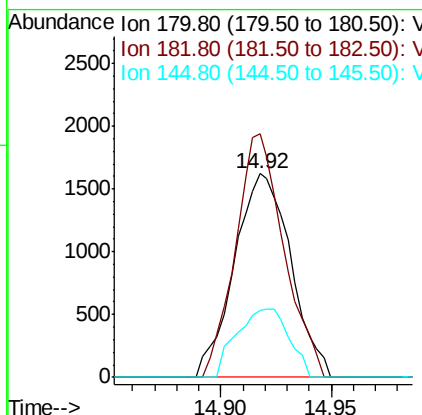
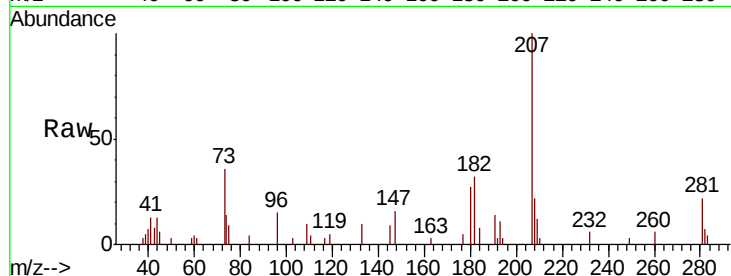
ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion:	180	Resp:	2881
Ion Ratio	Lower	Upper	
180	100		
182	102.6	47.4	142.2
145	31.0	15.4	46.2

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#94

Hexachlorobutadiene

Concen: 0.484 ug/l

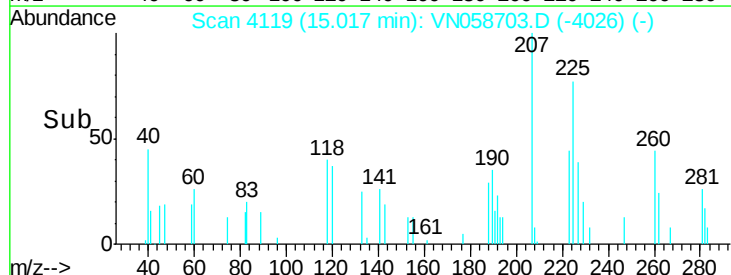
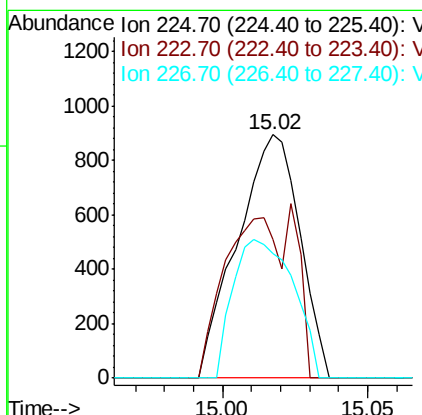
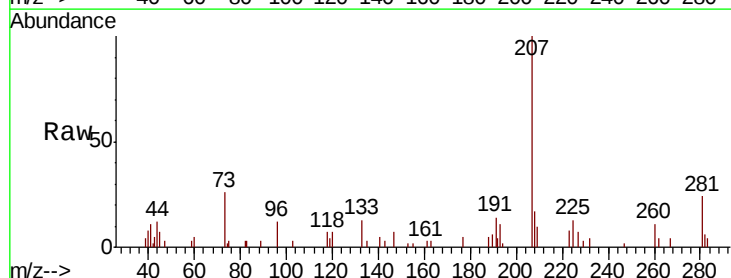
RT: 15.02 min Scan# 4119

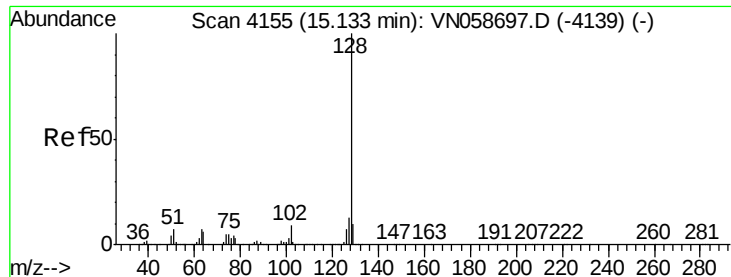
Delta R.T. 0.00 min

Lab File: VN058703.D

Acq: 11 Oct 2019 15:14

Tgt Ion:	225	Resp:	1333
Ion Ratio	Lower	Upper	
225	100		
223	74.4	32.3	96.8
227	55.0	32.4	97.0





#95

Naphthalene

Concen: 0.555 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. -0.00 min

Lab File: VN058703.D

Acq: 11 Oct 2019 15:14

Instrument :

MSVOA_N

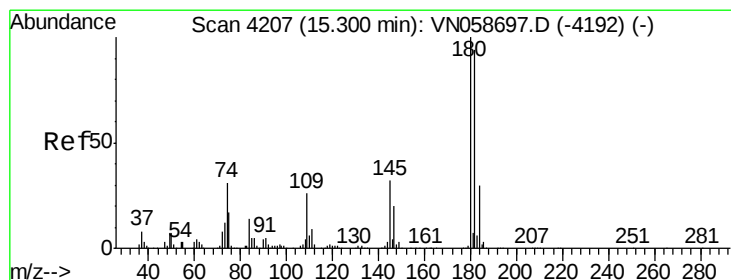
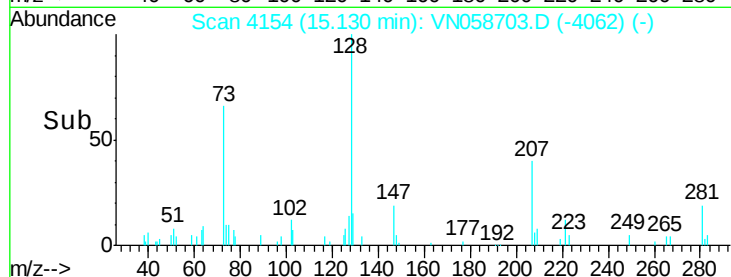
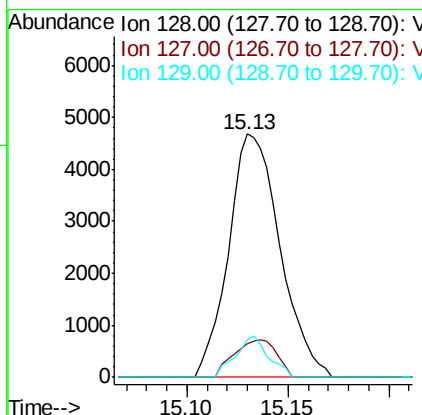
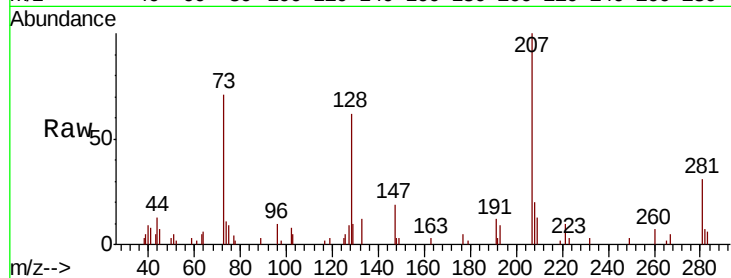
ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion:	128	Resp:	8347
Ion Ratio	Lower	Upper	
128	100		
127	12.8	10.2	15.4
129	10.9	8.5	12.7

Manual Integrations
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#96

1,2,3-Trichlorobenzene

Concen: 0.549 ug/l

RT: 15.31 min Scan# 4209

Delta R.T. 0.01 min

Lab File: VN058703.D

Acq: 11 Oct 2019 15:14

Tgt Ion:	180	Resp:	2805
Ion Ratio	Lower	Upper	
180	100		
182	96.6	47.3	142.0
145	32.9	16.2	48.6

