

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101419\
 Data File : VN058755.D
 Acq On : 14 Oct 2019 17:39
 Operator : JC/SP
 Sample : K5111-08 5.0PPB LOQ
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

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

Manual Integrations
 APPROVED

MMDadoda
 10/16/2019 12:57:12 AM

Quant Time: Oct 15 04:02:35 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	374540	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	614914	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	558552	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	246494	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	281093	53.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.22%	
35) Dibromofluoromethane	7.57	113	201231	52.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.96%	
50) Toluene-d8	10.08	98	759526	50.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.02%	
62) 4-Bromofluorobenzene	12.41	95	262561	45.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.34%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.83	85	23768	5.095	ug/l	98
3) Chloromethane	2.04	50	30515	5.501	ug/l	99
4) Vinyl Chloride	2.17	62	30282	5.481	ug/l	99
5) Bromomethane	2.54	94	20087	5.977	ug/l	94
6) Chloroethane	2.68	64	19561	5.740	ug/l	93
7) Trichlorofluoromethane	2.99	101	38266	5.788	ug/l	98
8) Diethyl Ether	3.39	74	12316	5.042	ug/l	94
9) 1,1,2-Trichlorotrifluoroet	3.74	101	20666	5.482	ug/l	99
10) Methyl Iodide	3.93	142	25726	5.001	ug/l	99
11) Tert butyl alcohol	4.76	59	23201	27.321	ug/l #	83
12) 1,1-Dichloroethene	3.72	96	19897	5.532	ug/l	90
13) Acrolein	3.58	56	15483	22.670	ug/l	94
14) Allyl chloride	4.30	41	37743	5.200	ug/l	99
15) Acrylonitrile	4.96	53	58987	27.544	ug/l	96
16) Acetone	3.80	43	53799	24.783	ug/l	95
17) Carbon Disulfide	4.03	76	59860	5.206	ug/l	99
18) Methyl Acetate	4.30	43	32848	5.965	ug/l #	79
19) Methyl tert-butyl Ether	5.02	73	64269	5.004	ug/l	95
20) Methylene Chloride	4.53	84	25119	5.537	ug/l #	96
21) trans-1,2-Dichloroethene	5.01	96	21295	5.293	ug/l	97
22) Diisopropyl ether	5.93	45	71257	5.049	ug/l #	86
23) Vinyl Acetate	5.88	43	291768	25.620	ug/l	99
24) 1,1-Dichloroethane	5.83	63	43002	5.350	ug/l	98
25) 2-Butanone	6.82	43	80317	25.598	ug/l	96
26) 2,2-Dichloropropane	6.80	77	35449	4.831	ug/l	96
27) cis-1,2-Dichloroethene	6.81	96	24288	5.177	ug/l	99
28) Bromochloromethane	7.18	49	15068	5.388	ug/l	99
29) Tetrahydrofuran	7.20	42	53901	26.583	ug/l	98
30) Chloroform	7.36	83	43574	5.396	ug/l	96
31) Cyclohexane	7.64	56	44560	5.794	ug/l #	81
32) 1,1,1-Trichloroethane	7.55	97	36885	5.355	ug/l	97
36) 1,1-Dichloropropene	7.78	75	31518	5.069	ug/l	97
37) Ethyl Acetate	6.91	43	32030	5.094	ug/l	98
38) Carbon Tetrachloride	7.75	117	32793	5.412	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.07	83	34890	4.836	ug/l	97
40) Benzene	8.03	78	93701	5.248	ug/l	99
41) Methacrylonitrile	7.15	41	9377	3.186	ug/l #	39
42) 1,2-Dichloroethane	8.11	62	36286	5.290	ug/l	97
43) Isopropyl Acetate	8.15	43	54040	5.045	ug/l #	90
44) Trichloroethene	8.82	130	23975	5.407	ug/l	95
45) 1,2-Dichloropropane	9.11	63	25075	5.246	ug/l	96
46) Dibromomethane	9.20	93	16319	5.385	ug/l	98
47) Bromodichloromethane	9.39	83	33569	5.440	ug/l	99
48) Methyl methacrylate	9.19	41	23149	4.768	ug/l	97
49) 1,4-Dioxane	9.19	88	7959	105.958	ug/l	95
51) 4-Methyl-2-Pentanone	9.98	43	160435	26.670	ug/l	96
52) Toluene	10.15	92	56084	5.135	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	34561	4.883	ug/l	93
54) cis-1,3-Dichloropropene	9.83	75	36523	4.860	ug/l	92
55) 1,1,2-Trichloroethane	10.56	97	22986	5.142	ug/l	97
56) Ethyl methacrylate	10.43	69	29686	4.546	ug/l	93
57) 1,3-Dichloropropane	10.71	76	38668	5.077	ug/l	95
58) 2-Chloroethyl Vinyl ether	9.69	63	69211	21.993	ug/l	100
59) 2-Hexanone	10.75	43	114294	24.585	ug/l	98
60) Dibromochloromethane	10.90	129	23324	5.058	ug/l	97
61) 1,2-Dibromoethane	11.00	107	22897	5.113	ug/l	97
64) Tetrachloroethene	10.63	164	21524	5.506	ug/l	96
65) Chlorobenzene	11.43	112	57862	5.101	ug/l	96
66) 1,1,1,2-Tetrachloroethane	11.51	131	22078	5.264	ug/l	97
67) Ethyl Benzene	11.51	91	104372	5.162	ug/l	99
68) m/p-Xylenes	11.62	106	73405	9.674	ug/l	100
69) o-Xylene	11.95	106	35057	4.775	ug/l	100
70) Styrene	11.97	104	53061	4.410	ug/l	98
71) Bromoform	12.13	173	15657	5.093	ug/l #	99
73) Isopropylbenzene	12.25	105	92617	5.188	ug/l	98
74) N-amyl acetate	12.07	43	38254	4.771	ug/l	96
75) 1,1,2,2-Tetrachloroethane	12.51	83	34004	5.782	ug/l	99
76) 1,2,3-Trichloropropane	12.56	75	31076m	5.747	ug/l	
77) Bromobenzene	12.53	156	22984	5.293	ug/l	97
78) n-propylbenzene	12.60	91	110192	5.297	ug/l	99
79) 2-Chlorotoluene	12.68	91	68110	5.275	ug/l	100
80) 1,3,5-Trimethylbenzene	12.74	105	78405	5.144	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	9110	4.513	ug/l	89
82) 4-Chlorotoluene	12.78	91	68230	5.150	ug/l	99
83) tert-Butylbenzene	13.00	119	65783	5.038	ug/l	97
84) 1,2,4-Trimethylbenzene	13.05	105	77702	5.136	ug/l	99
85) sec-Butylbenzene	13.18	105	89853	5.223	ug/l	99
86) p-Isopropyltoluene	13.30	119	76561	4.896	ug/l	98
87) 1,3-Dichlorobenzene	13.29	146	40667	5.078	ug/l	97
88) 1,4-Dichlorobenzene	13.37	146	40551	4.981	ug/l	94
89) n-Butylbenzene	13.62	91	66150	4.575	ug/l	98
90) Hexachloroethane	13.88	117	15399	5.504	ug/l	94
91) 1,2-Dichlorobenzene	13.66	146	40769	5.224	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.28	75	7706	5.609	ug/l	85

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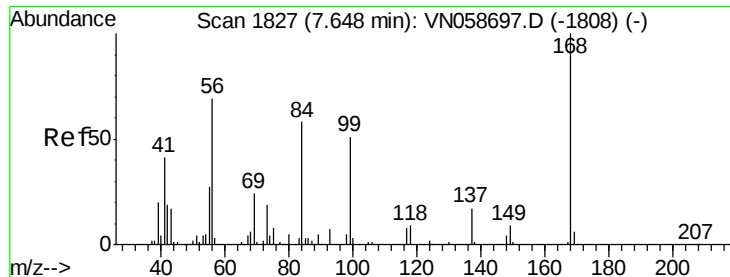
Manual Integrations
APPROVED

MMDadoda
10/16/2019 12:57:12 AM

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101319W.M
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.92	180	20446	4.295	ug/l	98
94) Hexachlorobutadiene	15.02	225	12939	5.161	ug/l	97
95) Naphthalene	15.13	128	53438	3.905	ug/l	99
96) 1,2,3-Trichlorobenzene	15.30	180	20119	4.328	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN058755.D

Acq: 14 Oct 2019 17:39

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion:168 Resp: 374540

Ion Ratio Lower Upper

168 100

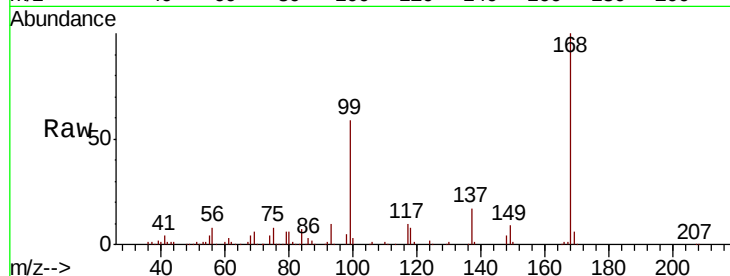
99 58.6 47.5 71.3

Manual Integrations

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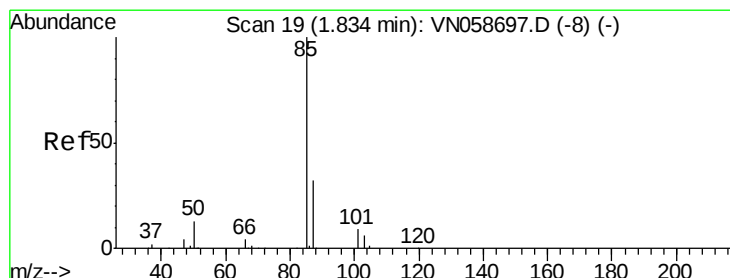
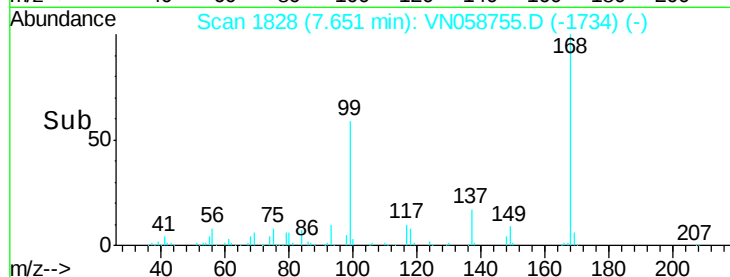
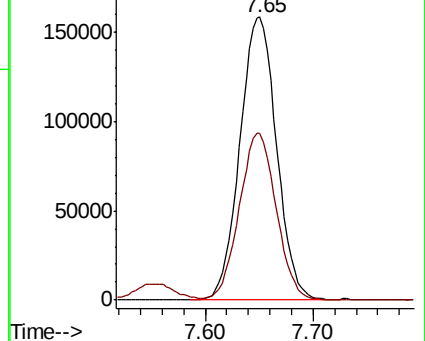
MMDadoda

10/16/2019 12:57:12 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#2

Dichlorodifluoromethane

Concen: 5.095 ug/l

RT: 1.83 min Scan# 19

Delta R.T. -0.00 min

Lab File: VN058755.D

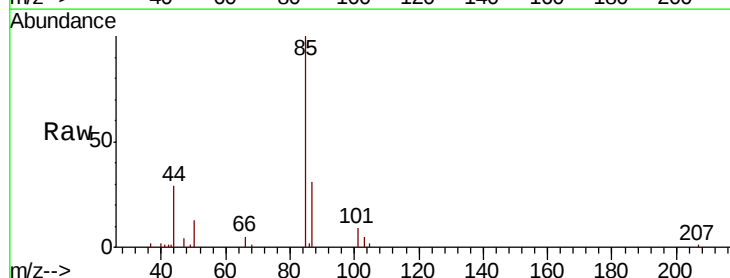
Acq: 14 Oct 2019 17:39

Tgt Ion: 85 Resp: 23768

Ion Ratio Lower Upper

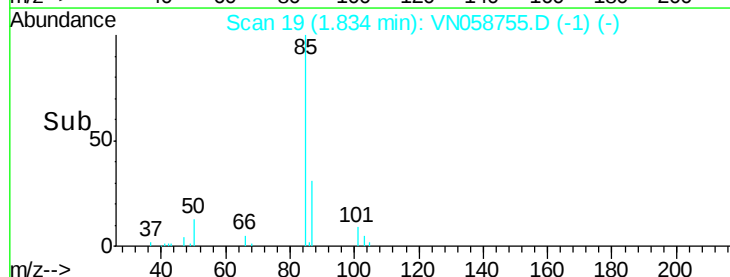
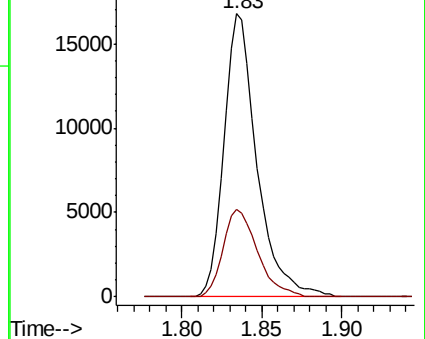
85 100

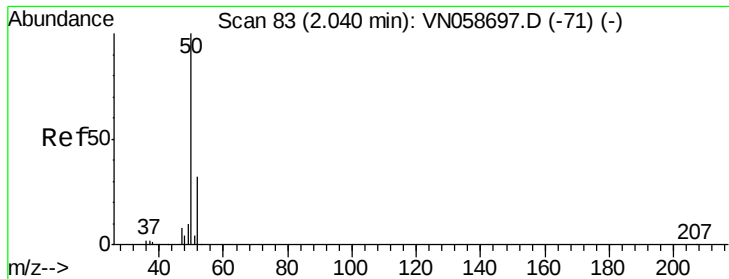
87 31.0 16.2 48.6



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO





#3

Chloromethane

Concen: 5.501 ug/l

RT: 2.04 min Scan# 83

Delta R.T. 0.00 min

Lab File: VN058755.D

Acq: 14 Oct 2019 17:39

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion: 50 Resp: 30515

Ion Ratio Lower Upper

50 100

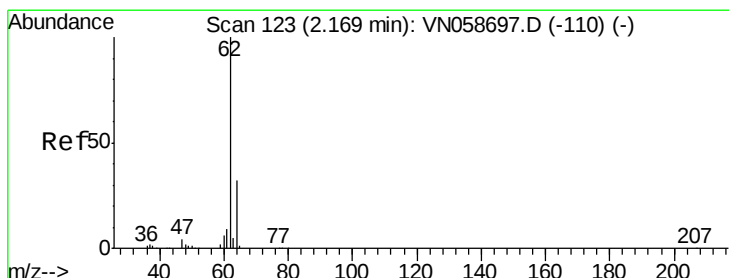
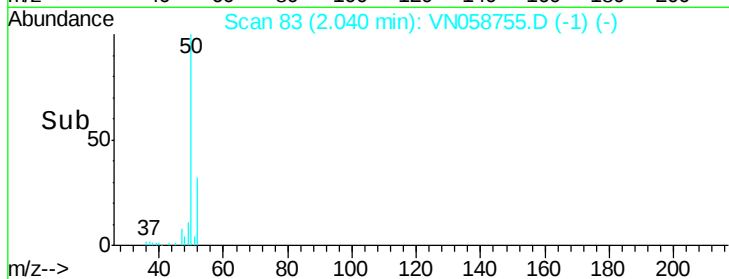
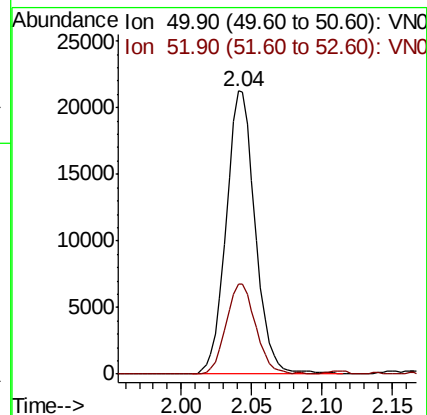
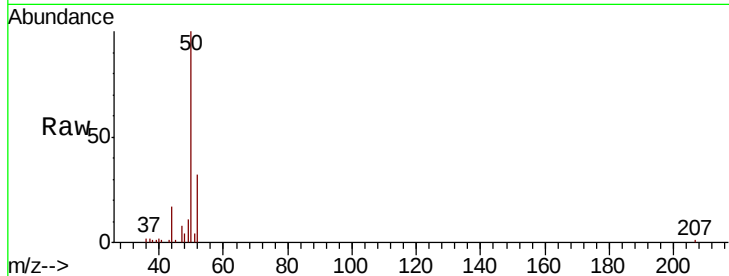
52 31.8 25.8 38.6

Manual Integrations

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#4

Vinyl Chloride

Concen: 5.481 ug/l

RT: 2.17 min Scan# 123

Delta R.T. -0.00 min

Lab File: VN058755.D

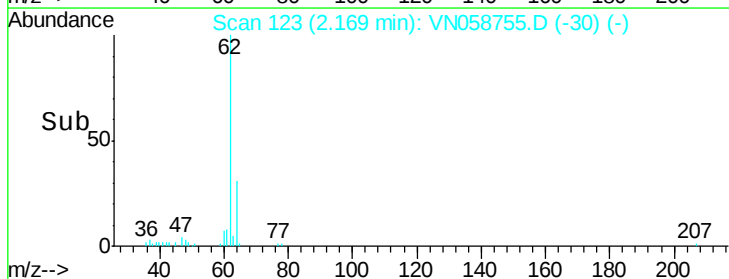
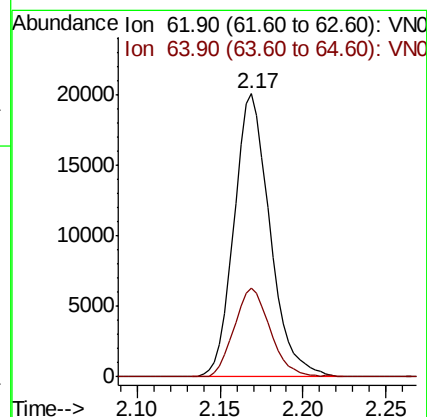
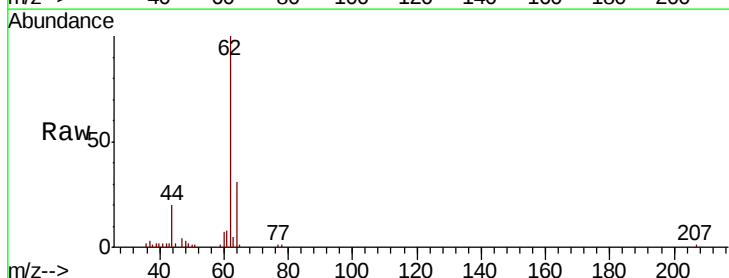
Acq: 14 Oct 2019 17:39

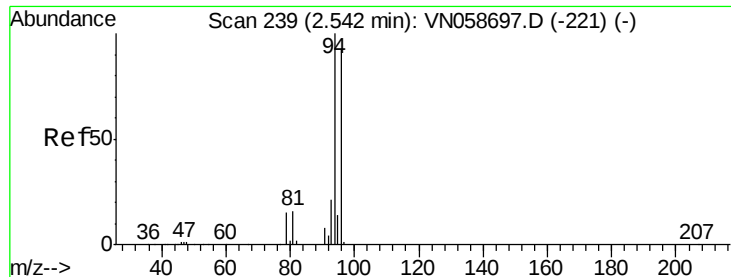
Tgt Ion: 62 Resp: 30282

Ion Ratio Lower Upper

62 100

64 31.3 25.3 37.9





#5

Bromomethane

Concen: 5.977 ug/l

RT: 2.54 min Scan# 237

Delta R.T. -0.01 min

Lab File: VN058755.D

Acq: 14 Oct 2019 17:39

Instrument :

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ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion: 94 Resp: 20087

Ion Ratio Lower Upper

94 100

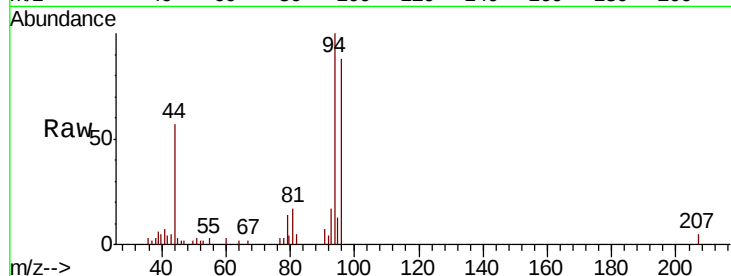
96 87.6 74.5 111.7

Manual Integrations

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Abundance Ion 93.90 (93.60 to 94.60): VNC

Ion 95.90 (95.60 to 96.60): VNC

2.54

10000

8000

6000

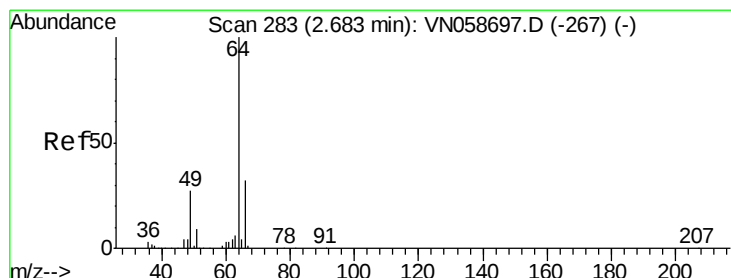
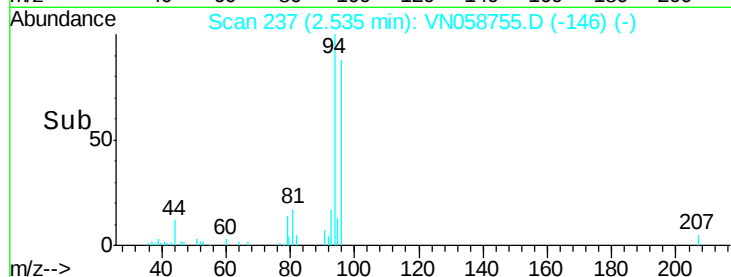
4000

2000

0

Time-->

2.45 2.50 2.55 2.60 2.65



#6

Chloroethane

Concen: 5.740 ug/l

RT: 2.68 min Scan# 281

Delta R.T. -0.01 min

Lab File: VN058755.D

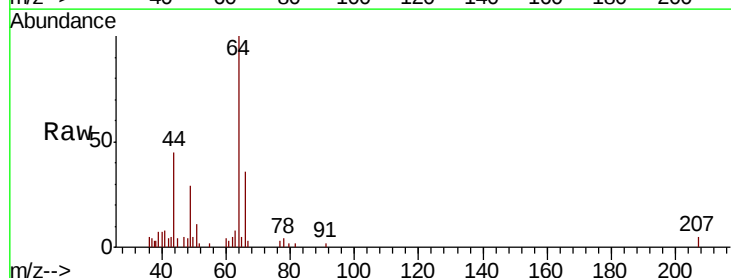
Acq: 14 Oct 2019 17:39

Tgt Ion: 64 Resp: 19561

Ion Ratio Lower Upper

64 100

66 35.7 25.4 38.2



Abundance Ion 63.90 (63.60 to 64.60): VNC

Ion 65.90 (65.60 to 66.60): VNC

2.68

10000

8000

6000

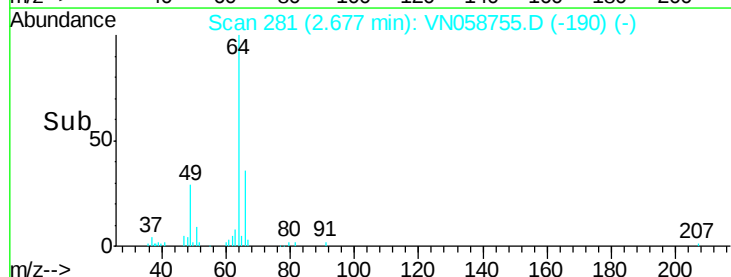
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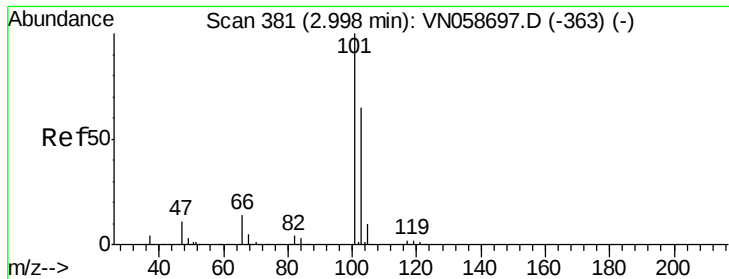
2000

0

Time-->

2.60 2.65 2.70 2.75





#7

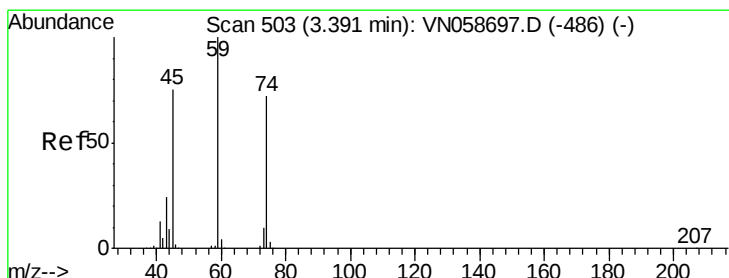
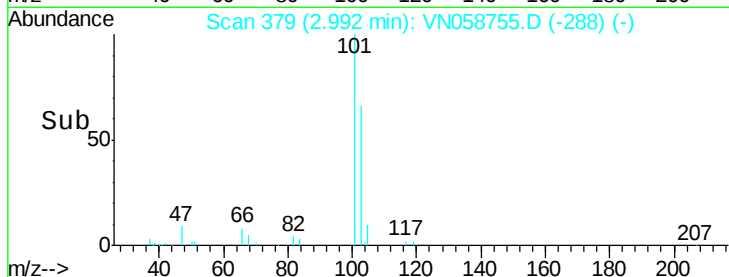
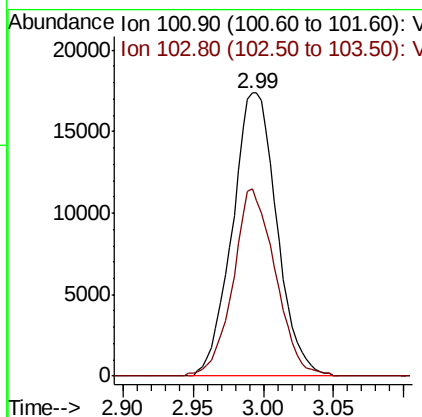
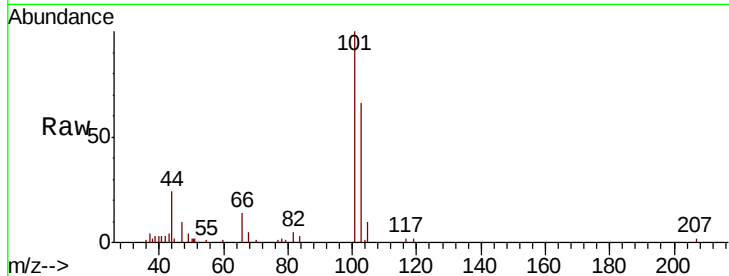
Trichlorofluoromethane
 Concen: 5.788 ug/l
 RT: 2.99 min Scan# 379
 Delta R.T. -0.01 min
 Lab File: VN058755.D
 Acq: 14 Oct 2019 17:39

Instrument :
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 LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
101	100		
103	66.2	51.8	77.6

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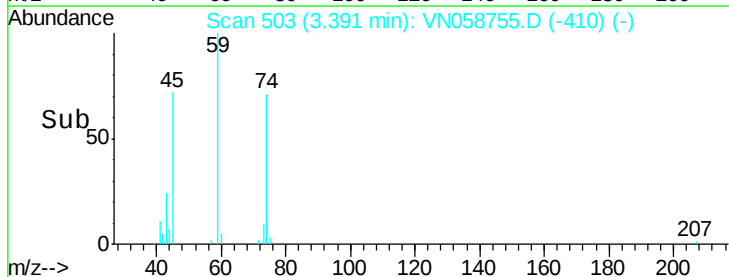
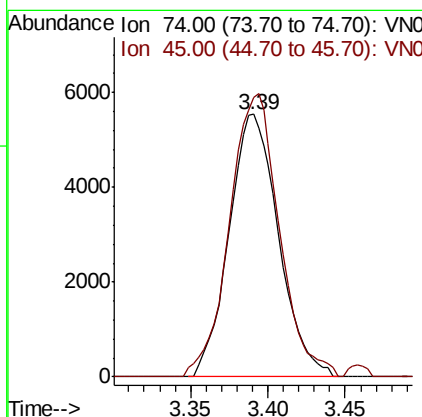
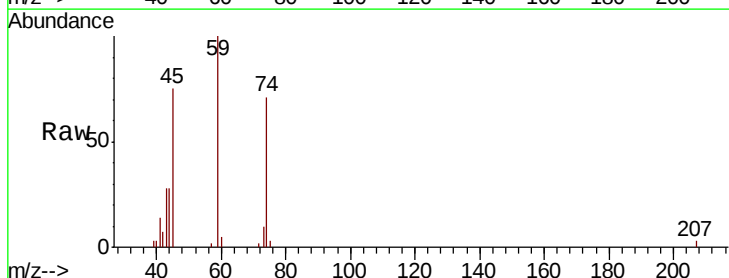
MMDadoda
 10/16/2019 12:57:12 AM

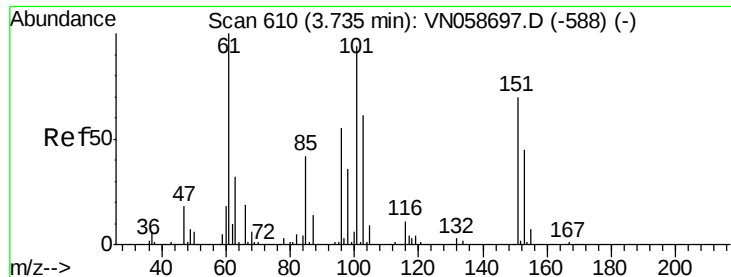


#8

Diethyl Ether
 Concen: 5.042 ug/l
 RT: 3.39 min Scan# 503
 Delta R.T. -0.00 min
 Lab File: VN058755.D
 Acq: 14 Oct 2019 17:39

Tgt Ion	Ratio	Lower	Upper
74	100		
45	108.5	51.3	154.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 5.482 ug/l

RT: 3.74 min Scan# 611

Delta R.T. 0.00 min

Lab File: VN058755.D

Acq: 14 Oct 2019 17:39

Instrument :

MSVOA_N

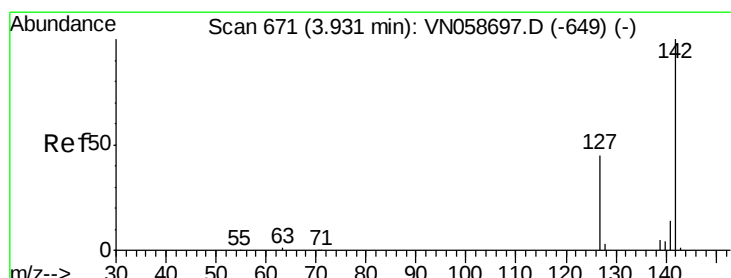
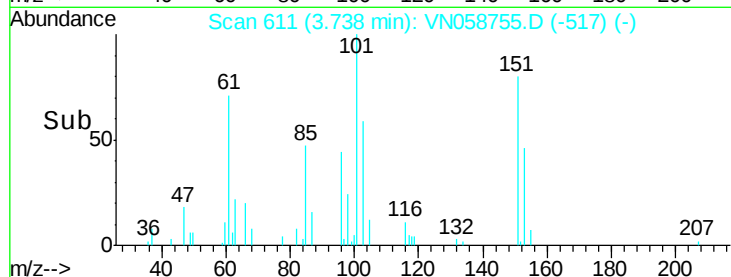
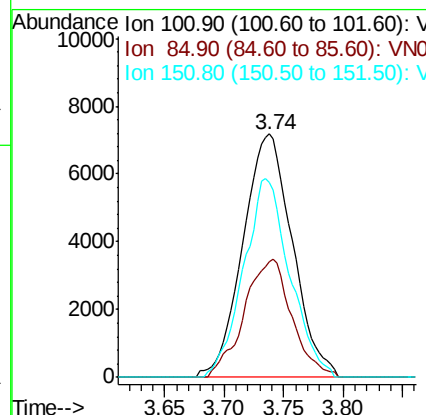
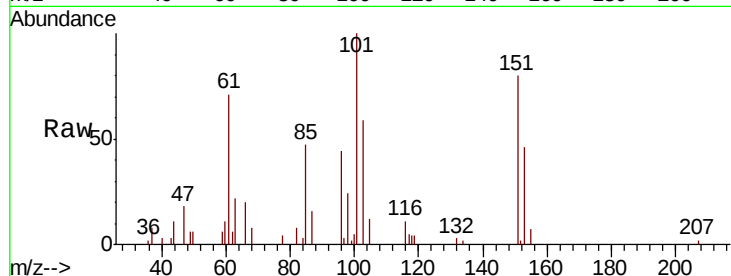
ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion:	101	Resp:	20666
Ion Ratio	Lower	Upper	
101	100		
85	46.6	37.0	55.6
151	76.4	61.8	92.6

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#10

Methyl Iodide

Concen: 5.001 ug/l

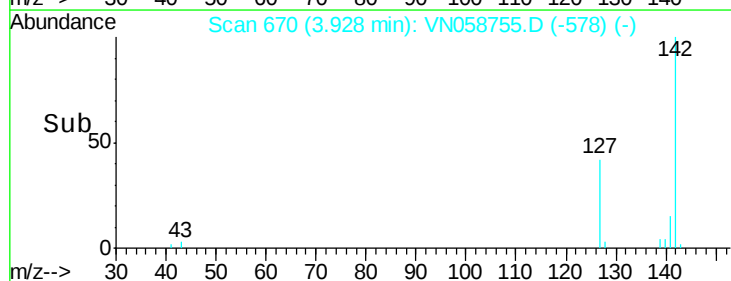
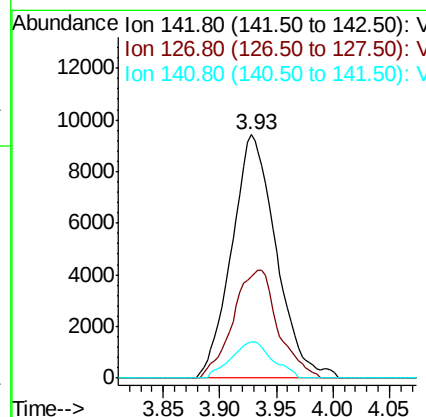
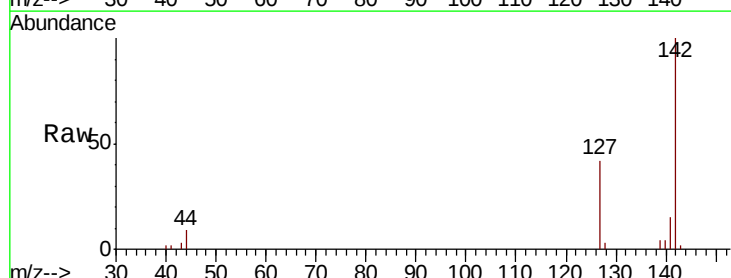
RT: 3.93 min Scan# 670

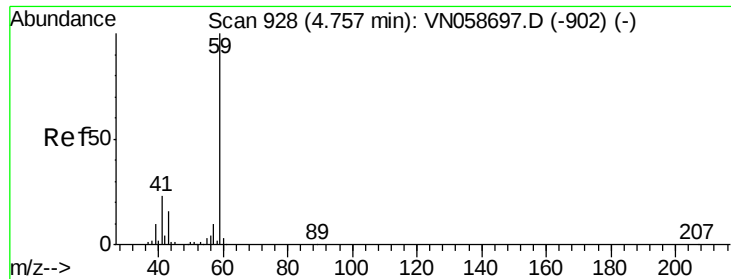
Delta R.T. -0.00 min

Lab File: VN058755.D

Acq: 14 Oct 2019 17:39

Tgt Ion:	142	Resp:	25726
Ion Ratio	Lower	Upper	
142	100		
127	44.7	36.4	54.6
141	13.9	11.1	16.7





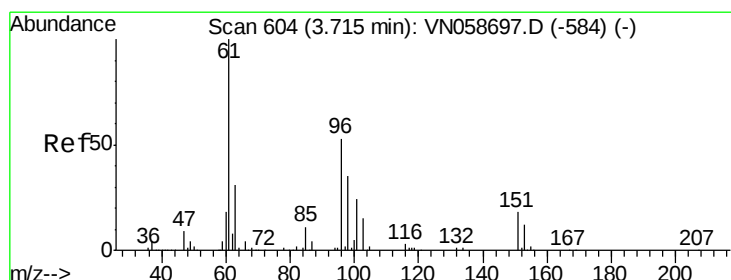
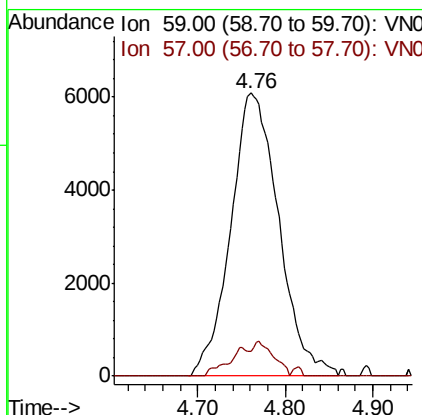
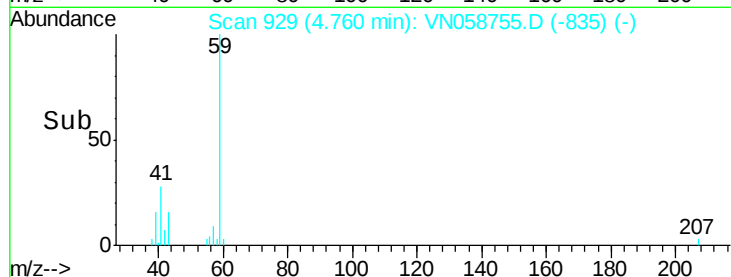
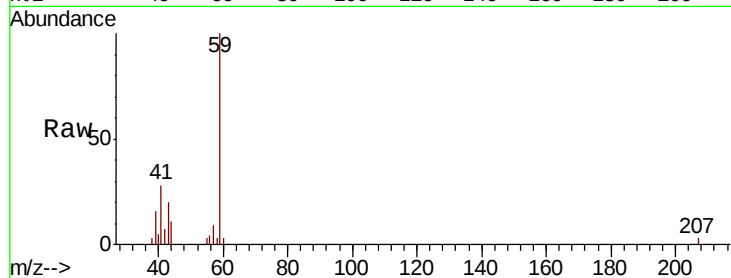
#11
Tert butyl alcohol
Concen: 27.321 ug/l
RT: 4.76 min Scan# 929
Delta R.T. 0.00 min
Lab File: VN058755.D
Acq: 14 Oct 2019 17:39

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

Tot Ion: 59 Resp: 23201
Ion Ratio Lower Upper
59 100
57 4.3 8.4 12.6#

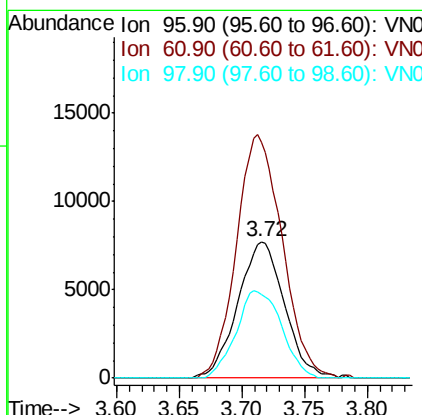
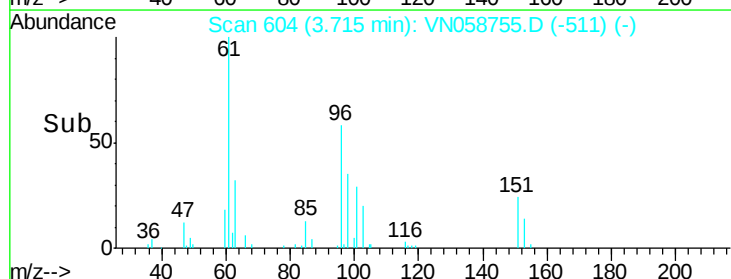
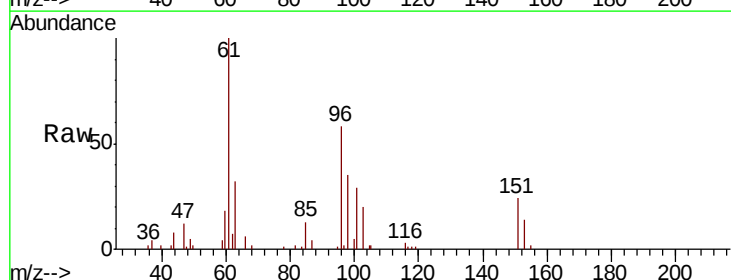
Manual Integrations
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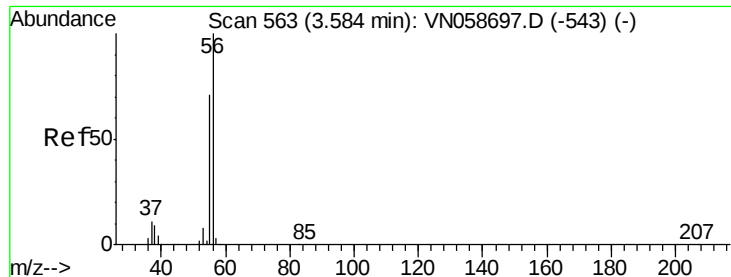
MMDadoda
10/16/2019 12:57:12 AM



#12
1,1-Dichloroethene
Concen: 5.532 ug/l
RT: 3.72 min Scan# 604
Delta R.T. -0.00 min
Lab File: VN058755.D
Acq: 14 Oct 2019 17:39

Tgt Ion: 96 Resp: 19897
Ion Ratio Lower Upper
96 100
61 173.0 151.3 226.9
98 60.9 52.6 78.8





#13

Acrolein

Concen: 22.670 ug/l

RT: 3.58 min Scan# 563

Delta R.T. -0.00 min

Lab File: VN058755.D

Acq: 14 Oct 2019 17:39

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion: 56 Resp: 15483

Ion Ratio Lower Upper

56 100

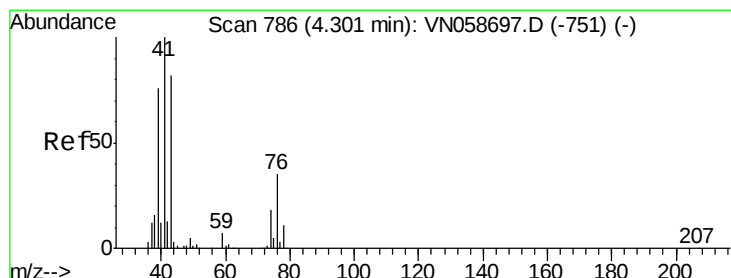
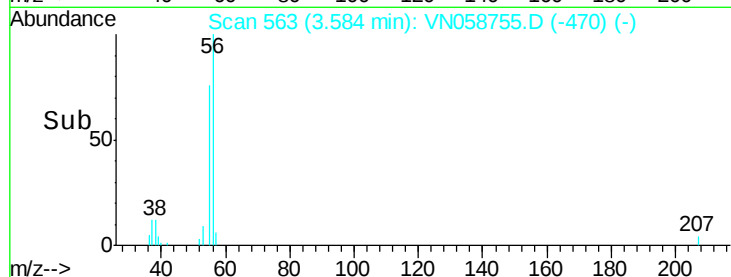
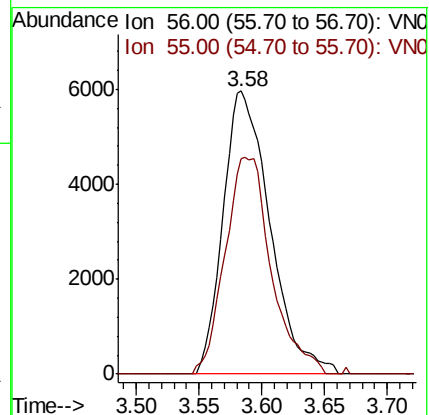
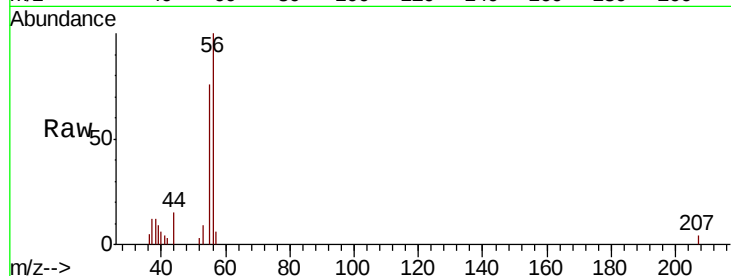
55 75.5 56.7 85.1

Manual Integrations

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#14

Allyl chloride

Concen: 5.200 ug/l

RT: 4.30 min Scan# 786

Delta R.T. -0.00 min

Lab File: VN058755.D

Acq: 14 Oct 2019 17:39

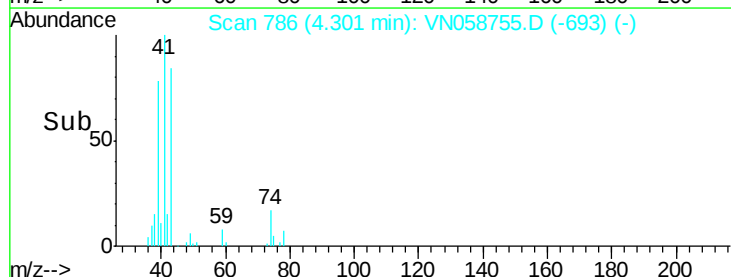
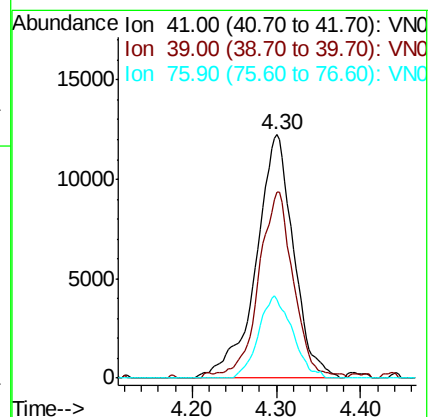
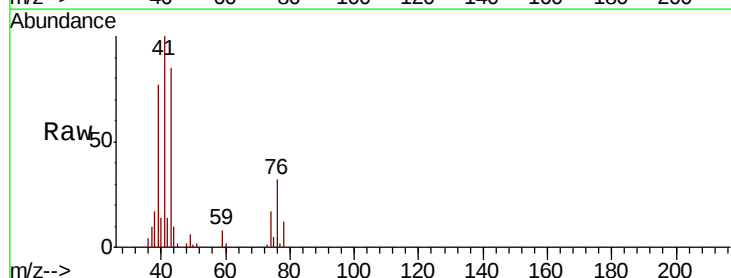
Tgt Ion: 41 Resp: 37743

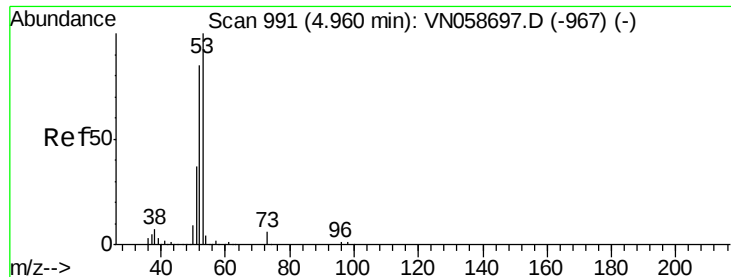
Ion Ratio Lower Upper

41 100

39 71.0 57.2 85.8

76 30.4 25.0 37.6





#15

Acrylonitrile

Concen: 27.544 ug/l

RT: 4.96 min Scan# 992

Delta R.T. 0.00 min

Lab File: VN058755.D

Acq: 14 Oct 2019 17:39

Instrument :

MSVOA_N

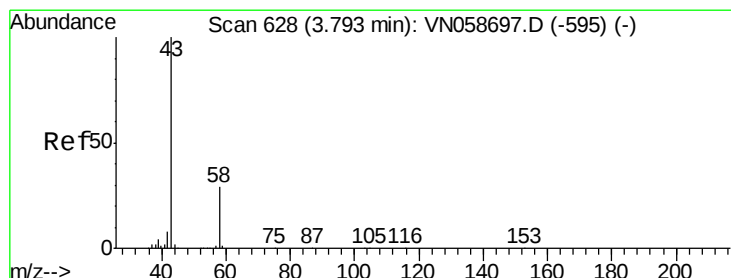
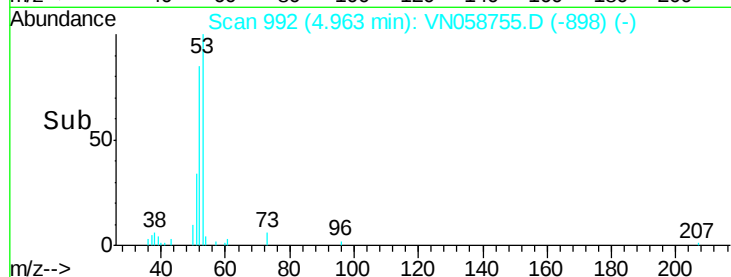
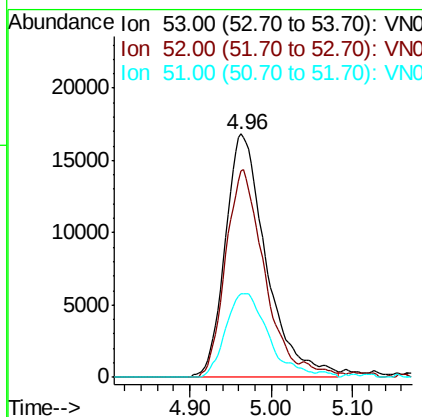
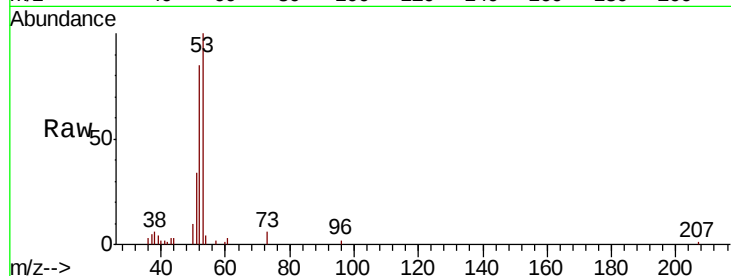
ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion:	53	Resp:	58987
Ion Ratio	Lower	Upper	
53	100		
52	78.8	66.2	99.2
51	35.7	29.4	44.2

Manual Integrations
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#16

Acetone

Concen: 24.783 ug/l

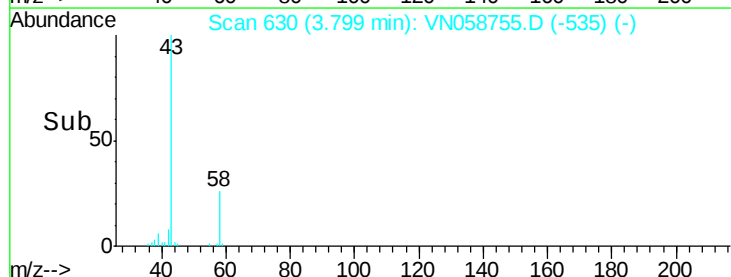
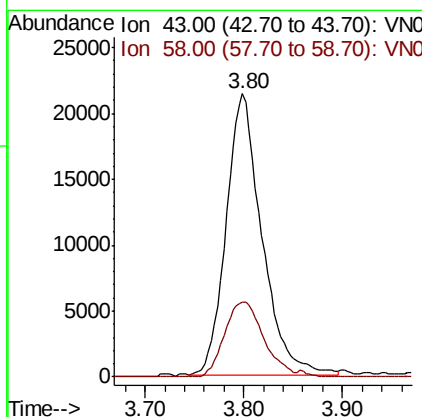
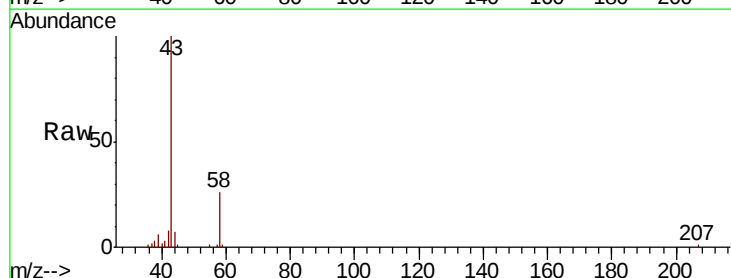
RT: 3.80 min Scan# 630

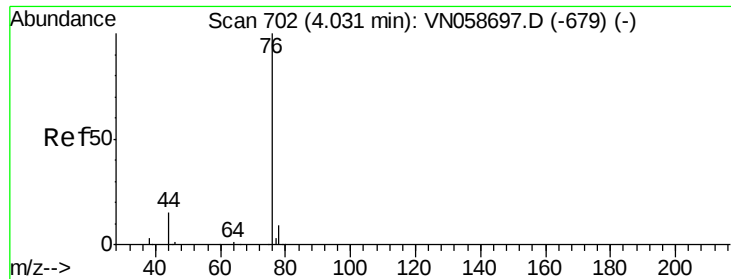
Delta R.T. 0.01 min

Lab File: VN058755.D

Acq: 14 Oct 2019 17:39

Tgt Ion:	43	Resp:	53799
Ion Ratio	Lower	Upper	
43	100		
58	26.6	23.3	34.9





#17

Carbon Disulfide

Concen: 5.206 ug/l

RT: 4.03 min Scan# 701

Delta R.T. -0.00 min

Lab File: VN058755.D

Acq: 14 Oct 2019 17:39

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion: 76 Resp: 59860

Ion Ratio Lower Upper

76 100

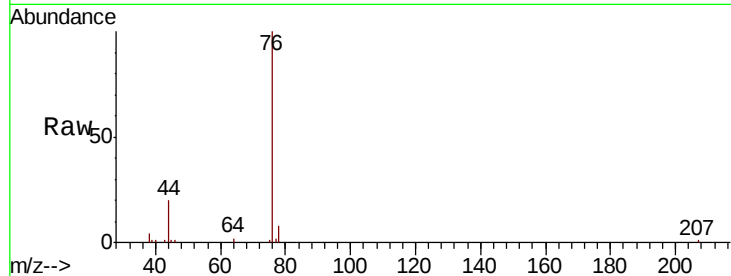
78 8.5 7.1 10.7

Manual Integrations

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Abundance Ion 75.90 (75.60 to 76.60): VN058697.D (-679) (-)

Ion 77.90 (77.60 to 78.60): VN058697.D (-679) (-)

25000

20000

15000

10000

5000

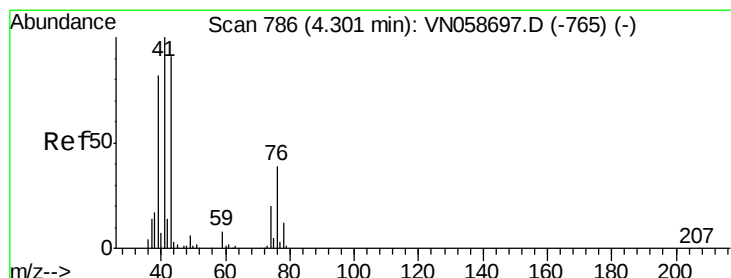
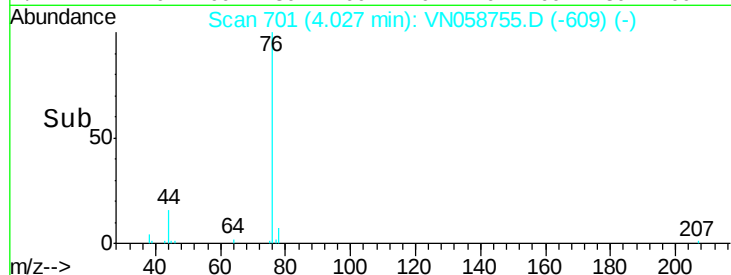
0

Time-->

3.90

4.00

4.10



#18

Methyl Acetate

Concen: 5.965 ug/l

RT: 4.30 min Scan# 786

Delta R.T. -0.00 min

Lab File: VN058755.D

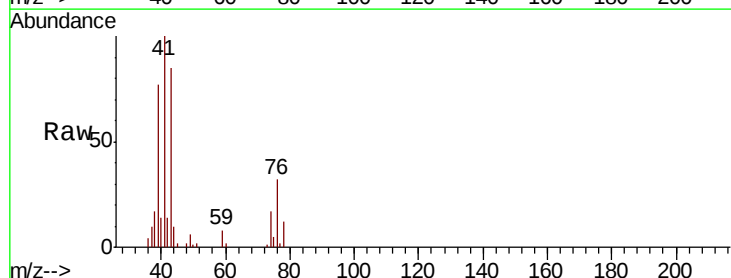
Acq: 14 Oct 2019 17:39

Tgt Ion: 43 Resp: 32848

Ion Ratio Lower Upper

43 100

74 11.4 17.2 25.8#



Abundance Ion 43.00 (42.70 to 43.70): VN058697.D (-765) (-)

Ion 74.00 (73.70 to 74.70): VN058697.D (-765) (-)

12000

10000

8000

6000

4000

2000

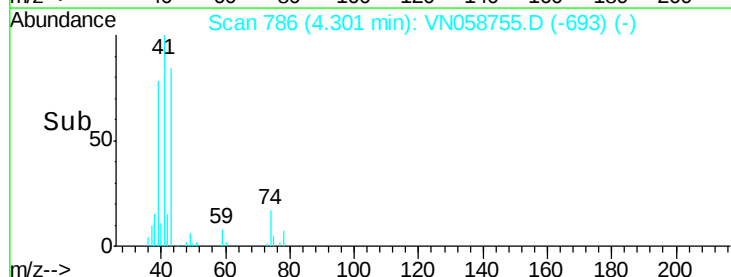
0

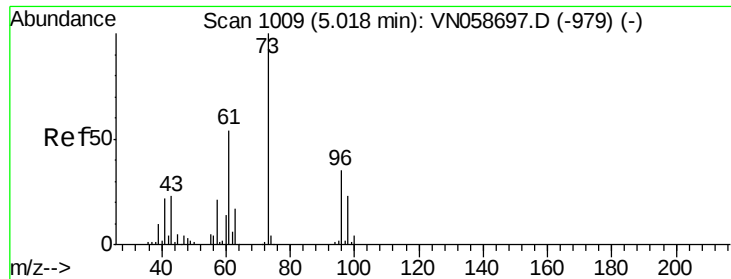
Time-->

4.20

4.30

4.40





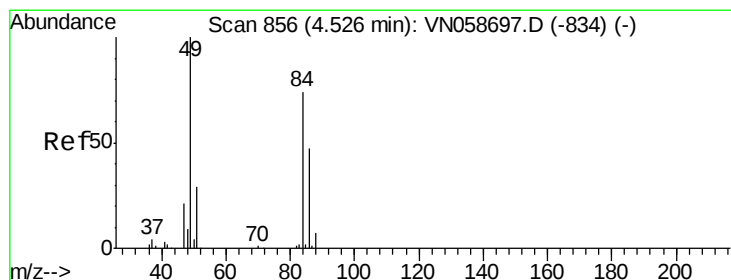
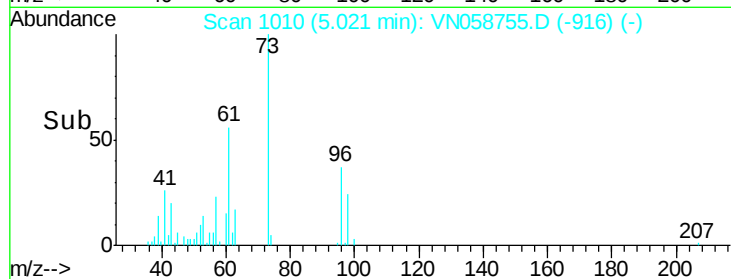
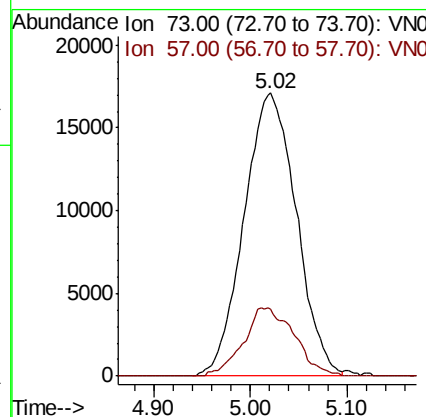
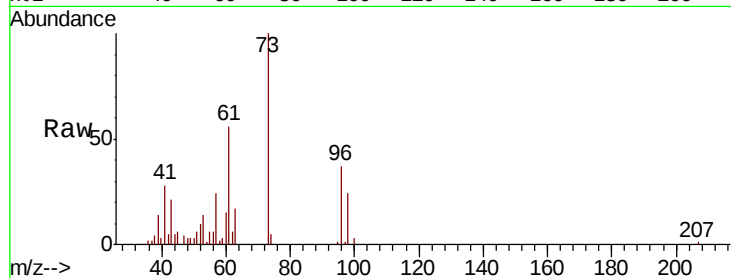
#19
Methvl tert-butvl Ether
Concen: 5.004 ug/l
RT: 5.02 min Scan# 1010
Delta R.T. 0.00 min
Lab File: VN058755.D
Acq: 14 Oct 2019 17:39

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

Tot Ion: 73 Resp: 64269
Ion Ratio Lower Upper
73 100
57 23.7 17.0 25.6

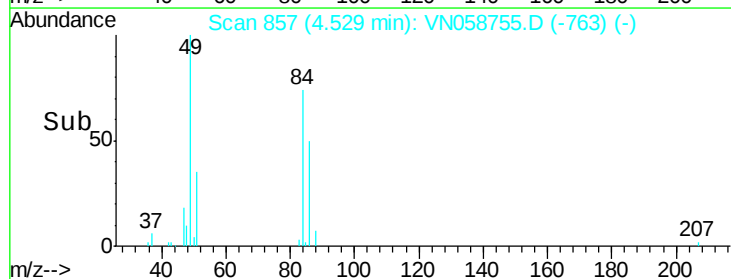
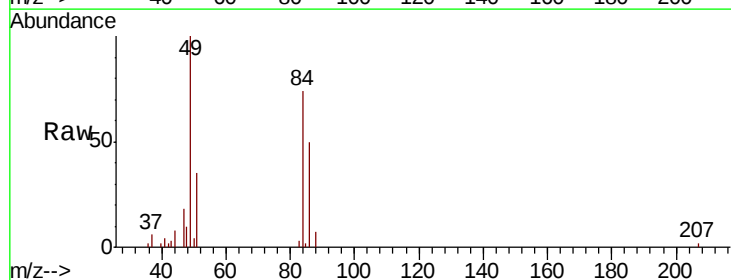
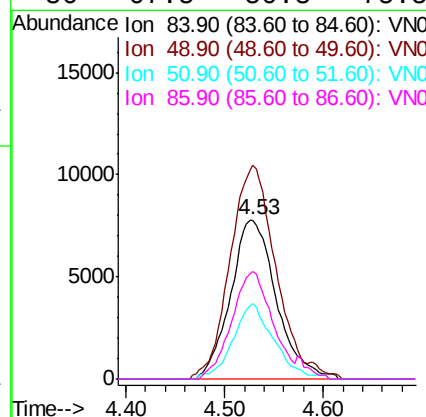
Manual Integrations
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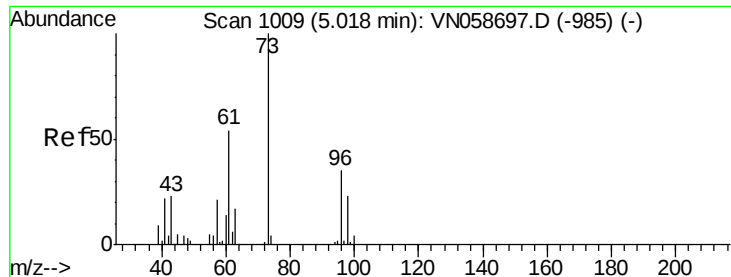
MMDadoda
10/16/2019 12:57:12 AM



#20
Methylene Chloride
Concen: 5.537 ug/l
RT: 4.53 min Scan# 857
Delta R.T. 0.00 min
Lab File: VN058755.D
Acq: 14 Oct 2019 17:39

Tgt Ion: 84 Resp: 25119
Ion Ratio Lower Upper
84 100
49 134.5 107.6 161.4
51 47.2 31.4 47.0#
86 67.5 50.3 75.5





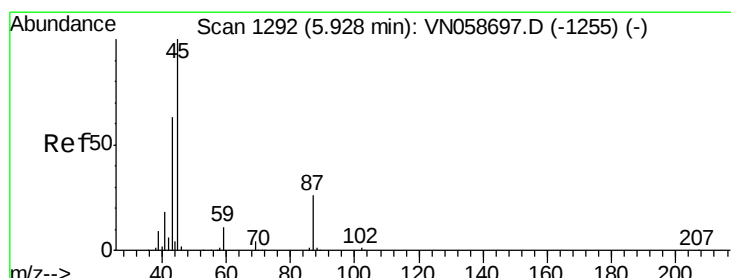
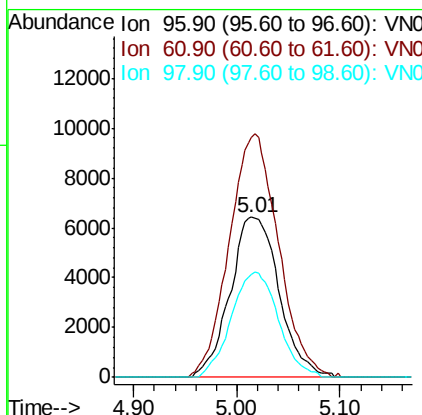
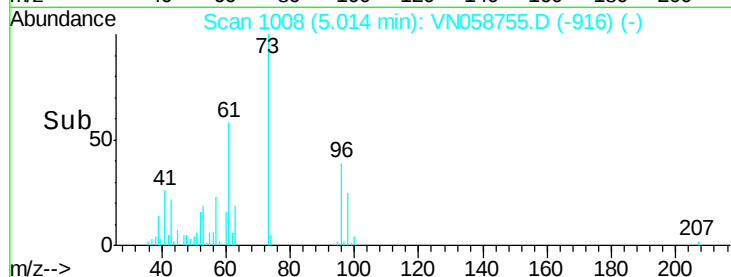
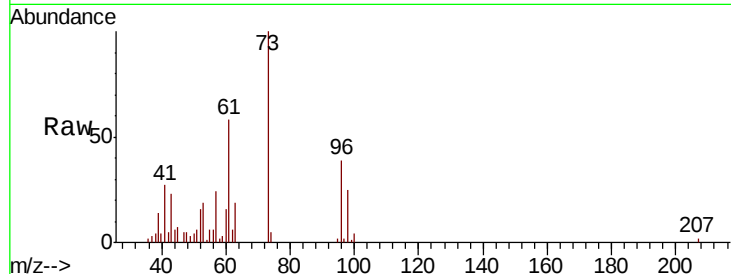
#21
trans-1,2-Dichloroethene
Concen: 5.293 ug/l
RT: 5.01 min Scan# 1008
Delta R.T. -0.00 min
Lab File: VN058755.D
Acq: 14 Oct 2019 17:39

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

Tot Ion	Ratio	Lower	Upper
96	100		
61	149.7	123.6	185.4
98	64.6	52.1	78.1

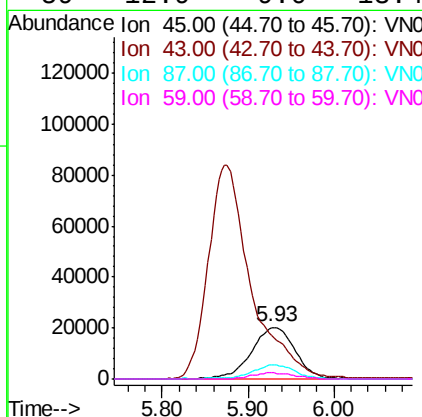
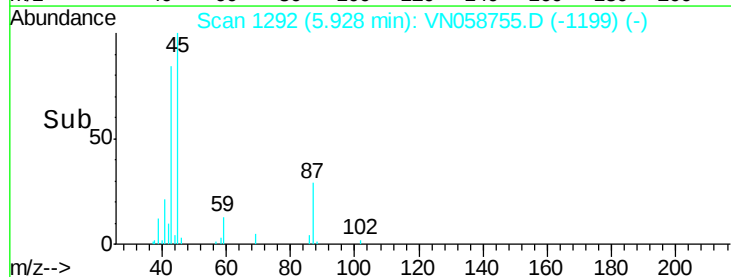
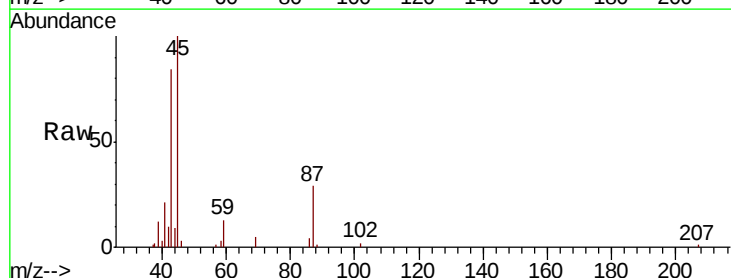
Manual Integrations
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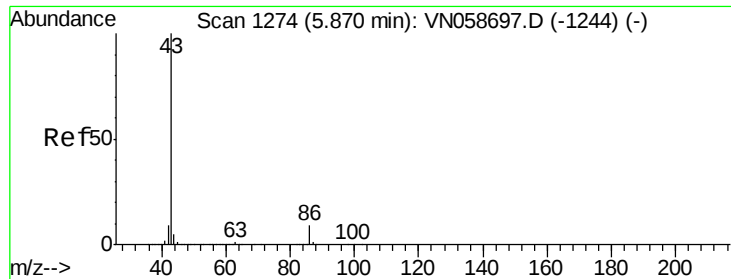
MMDadoda
10/16/2019 12:57:12 AM



#22
Diisopropyl ether
Concen: 5.049 ug/l
RT: 5.93 min Scan# 1292
Delta R.T. -0.00 min
Lab File: VN058755.D
Acq: 14 Oct 2019 17:39

Tgt Ion	Ratio	Lower	Upper
45	100		
43	79.2	50.6	75.8#
87	28.5	21.1	31.7
59	12.9	9.0	13.4





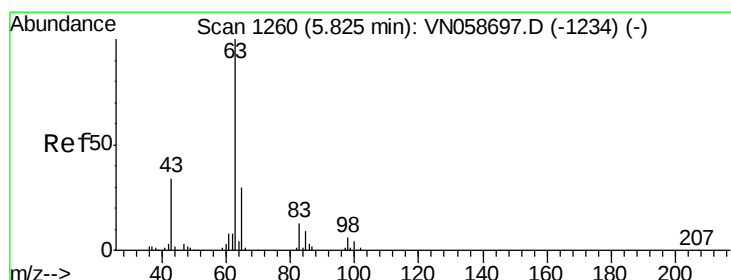
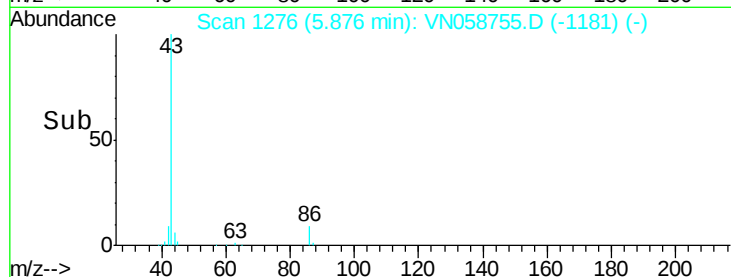
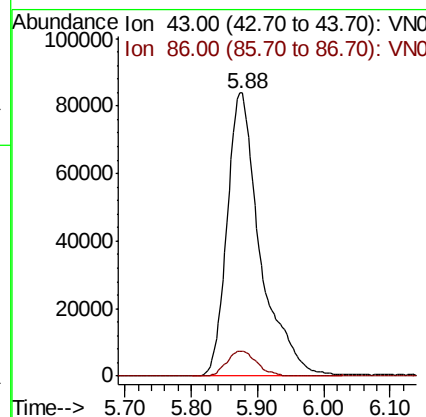
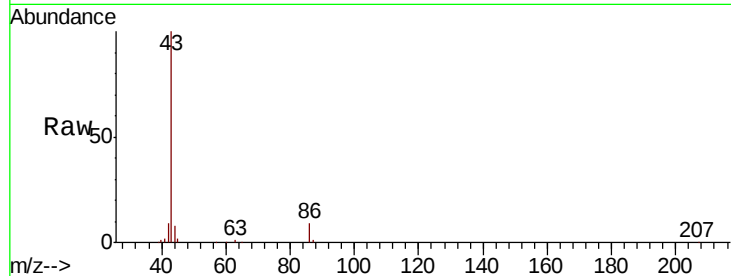
#23
 Vinyl Acetate
 Concen: 25.620 ug/l
 RT: 5.88 min Scan# 1276
 Delta R.T. 0.01 min
 Lab File: VN058755.D
 Acq: 14 Oct 2019 17:39

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

Tot Ion	43	Resp	291768
Ion Ratio	Lower	Upper	
43	100		
86	8.8	7.4	11.0

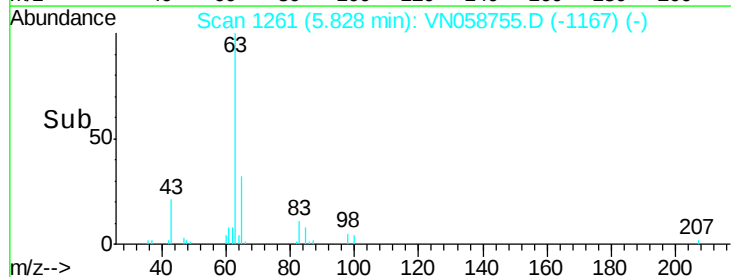
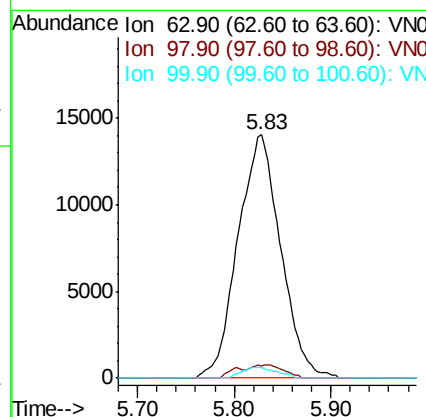
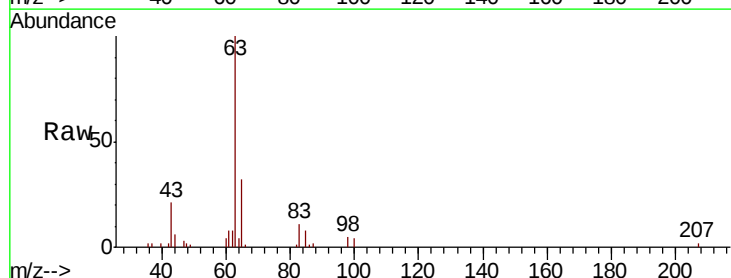
Manual Integrations
 APPROVED

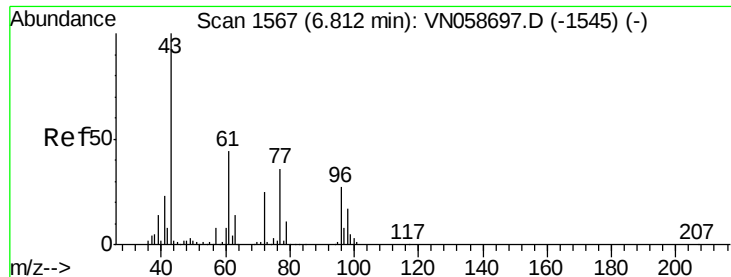
MMDadoda
 10/16/2019 12:57:12 AM



#24
 1,1-Dichloroethane
 Concen: 5.350 ug/l
 RT: 5.83 min Scan# 1261
 Delta R.T. 0.00 min
 Lab File: VN058755.D
 Acq: 14 Oct 2019 17:39

Tgt Ion	63	Resp	43002
Ion Ratio	Lower	Upper	
63	100		
98	5.1	2.9	8.6
100	4.3	1.8	5.5





#25

2-Butanone

Concen: 25.598 ug/l

RT: 6.82 min Scan# 1569

Delta R.T. 0.01 min

Lab File: VN058755.D

Acq: 14 Oct 2019 17:39

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion: 43 Resp: 80317

Ion Ratio Lower Upper

43 100

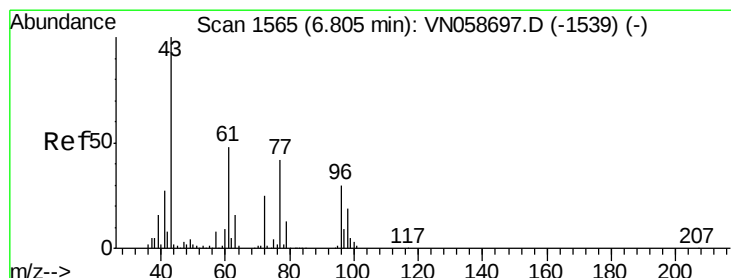
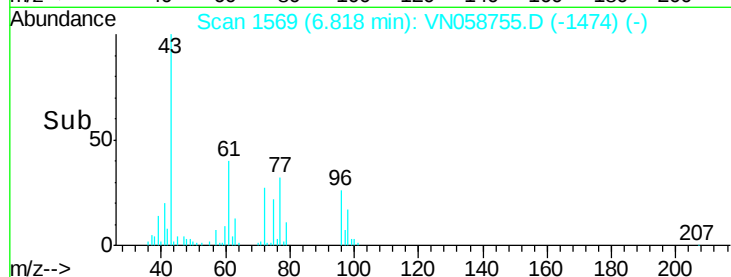
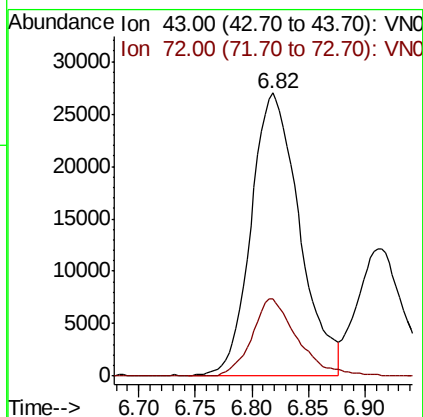
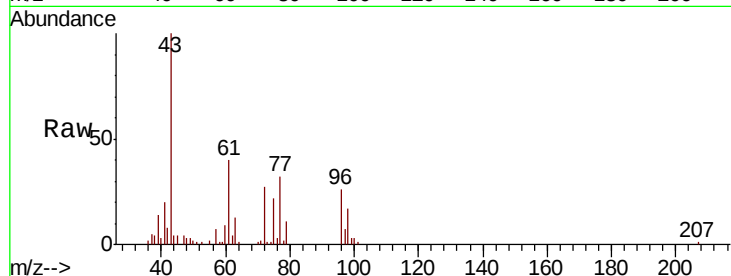
72 27.2 20.2 30.2

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 4.831 ug/l

RT: 6.80 min Scan# 1564

Delta R.T. -0.00 min

Lab File: VN058755.D

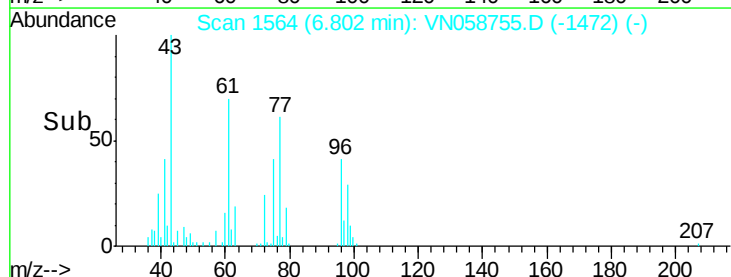
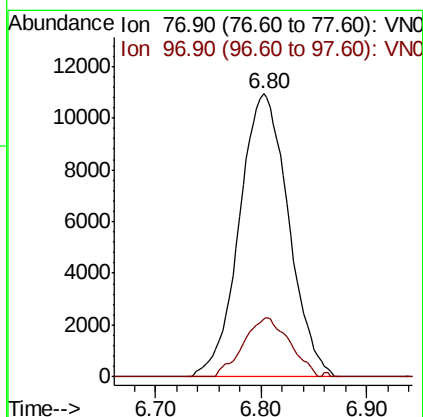
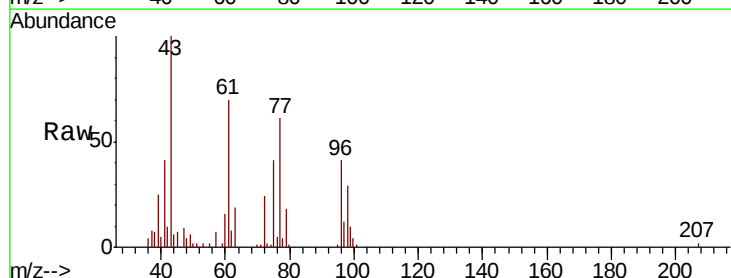
Acq: 14 Oct 2019 17:39

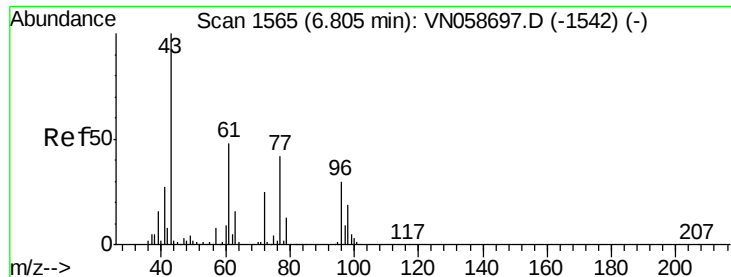
Tgt Ion: 77 Resp: 35449

Ion Ratio Lower Upper

77 100

97 19.6 10.7 31.9





#27

cis-1,2-Dichloroethene

Concen: 5.177 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. 0.00 min

Lab File: VN058755.D

Acq: 14 Oct 2019 17:39

Instrument :

MSVOA_N

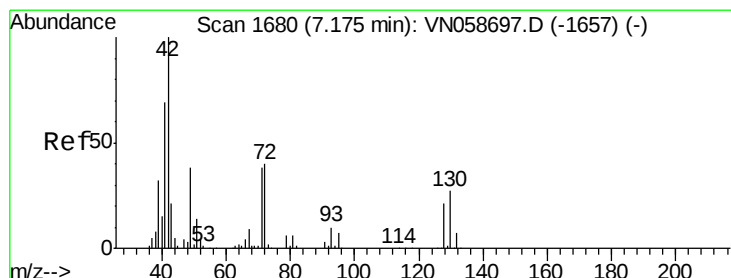
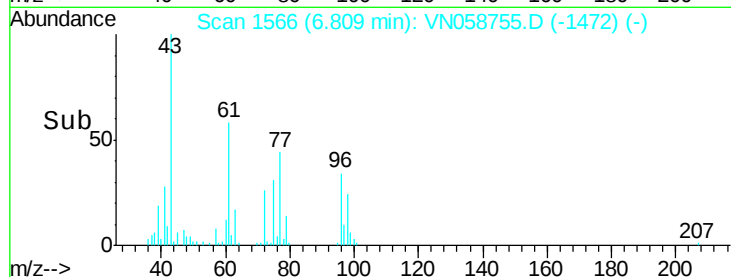
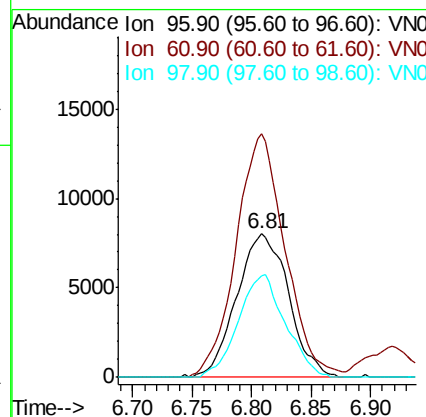
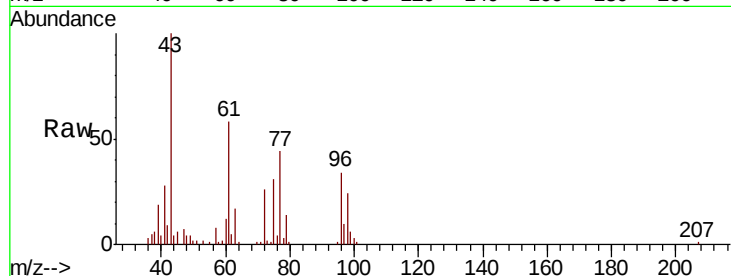
ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion:	96	Resp:	24288
Ion	Ratio	Lower	Upper
96	100		
61	159.9	0.0	324.8
98	64.8	0.0	129.2

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#28

Bromochloromethane

Concen: 5.388 ug/l

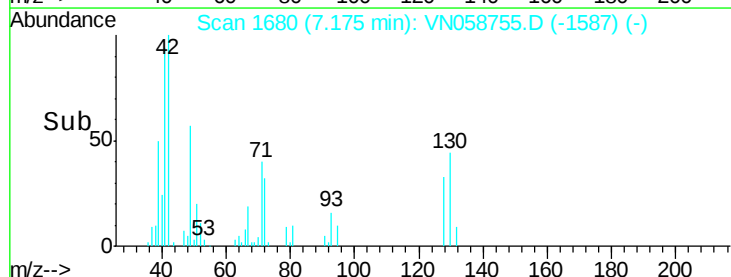
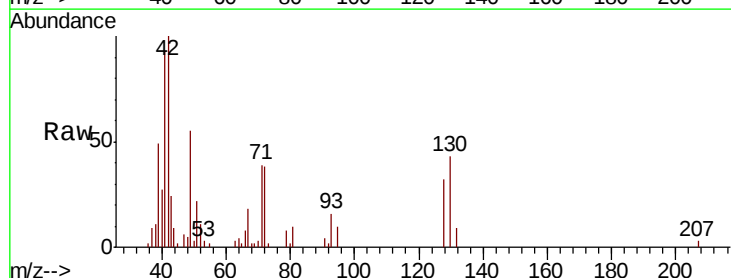
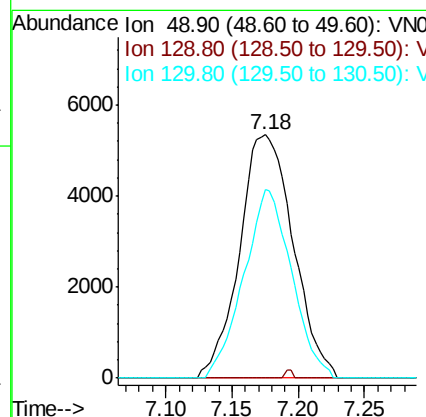
RT: 7.18 min Scan# 1680

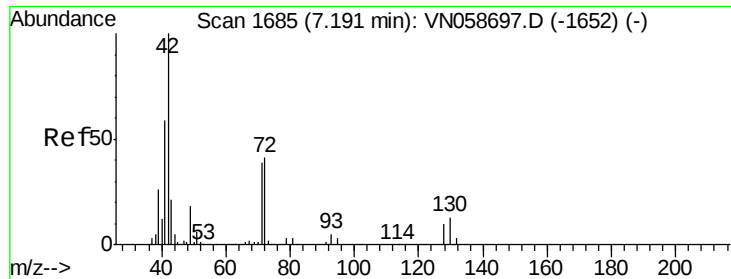
Delta R.T. -0.00 min

Lab File: VN058755.D

Acq: 14 Oct 2019 17:39

Tgt Ion:	49	Resp:	15068
Ion	Ratio	Lower	Upper
49	100		
129	0.4	0.0	3.6
130	69.1	55.0	82.4





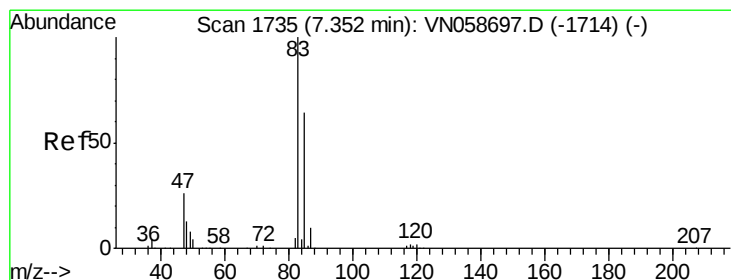
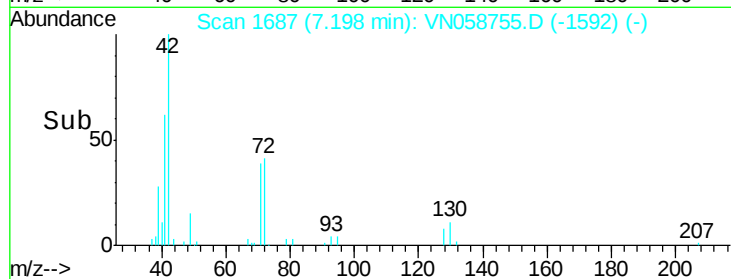
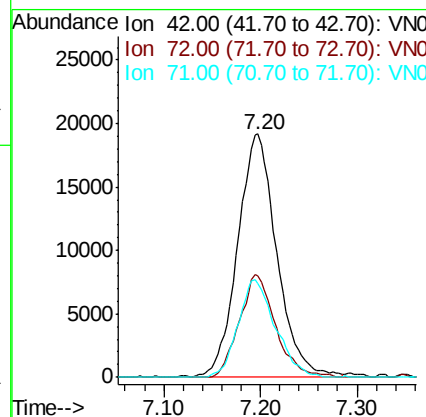
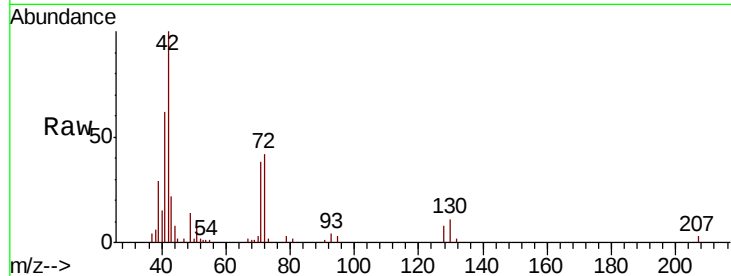
#29
Tetrahydrofuran
Concen: 26.583 ug/l
RT: 7.20 min Scan# 1687
Delta R.T. 0.01 min
Lab File: VN058755.D
Acq: 14 Oct 2019 17:39

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

Tot Ion	Ratio	Lower	Upper
42	100		
72	39.0	32.8	49.2
71	38.2	31.1	46.7

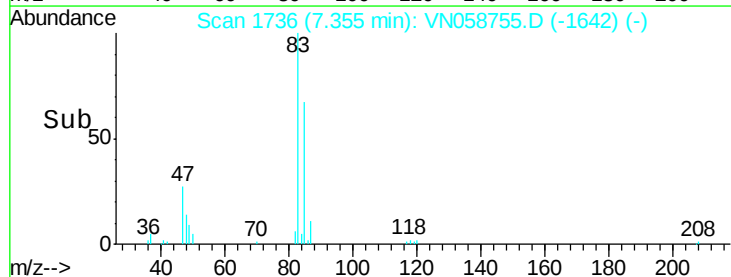
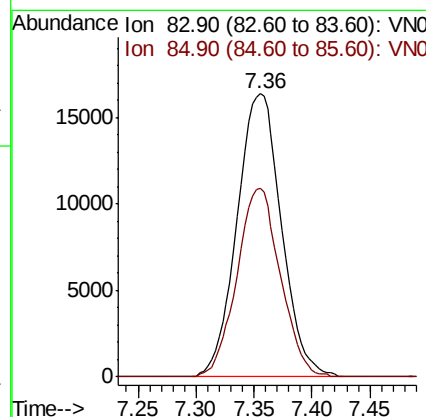
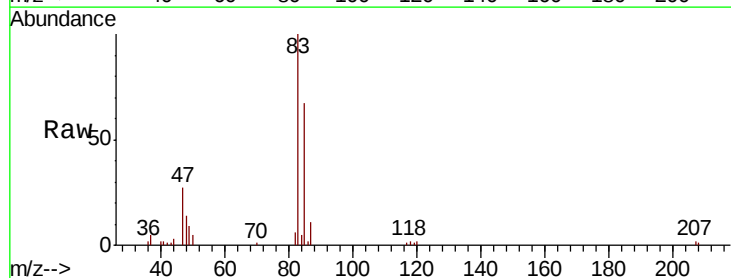
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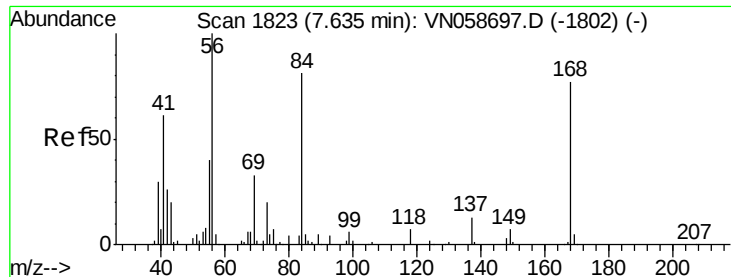
MMDadoda
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#30
Chloroform
Concen: 5.396 ug/l
RT: 7.36 min Scan# 1736
Delta R.T. 0.00 min
Lab File: VN058755.D
Acq: 14 Oct 2019 17:39

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.9	51.0	76.6





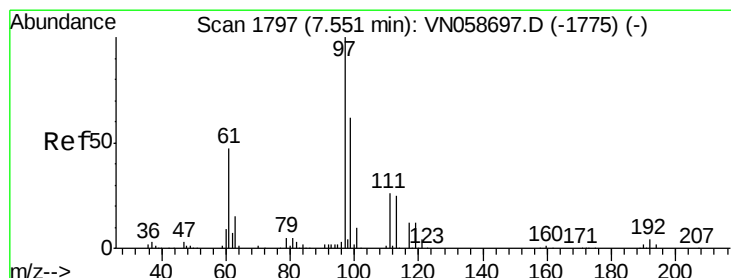
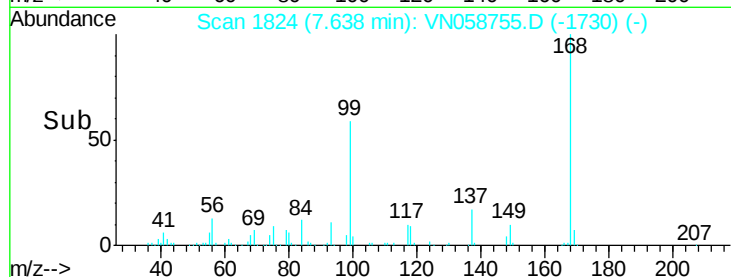
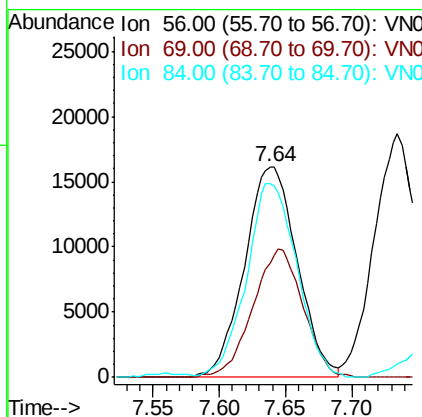
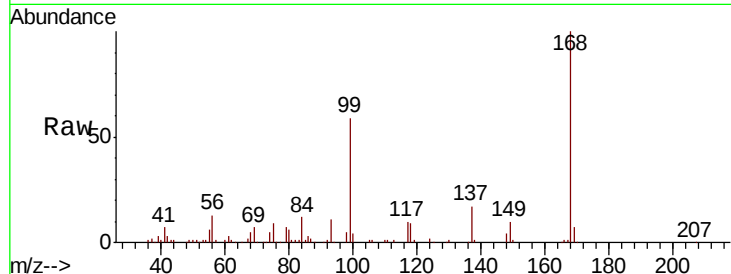
#31
Cyclohexane
Concen: 5.794 ug/l
RT: 7.64 min Scan# 1824
Delta R.T. 0.00 min
Lab File: VN058755.D
Acq: 14 Oct 2019 17:39

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

Tot Ion	Ratio	Lower	Upper
56	100		
69	54.4	26.2	39.4#
84	91.1	64.9	97.3

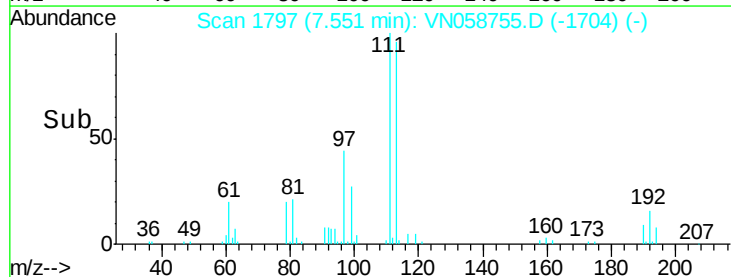
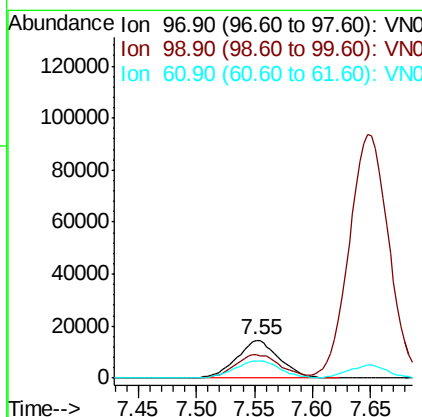
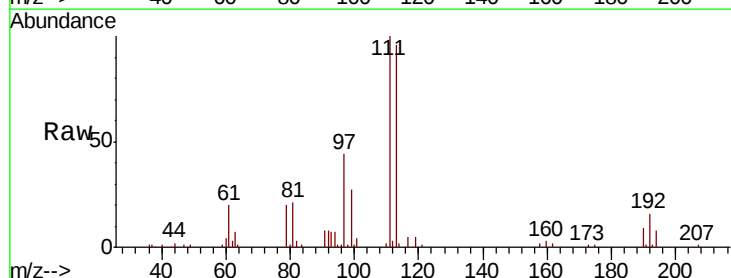
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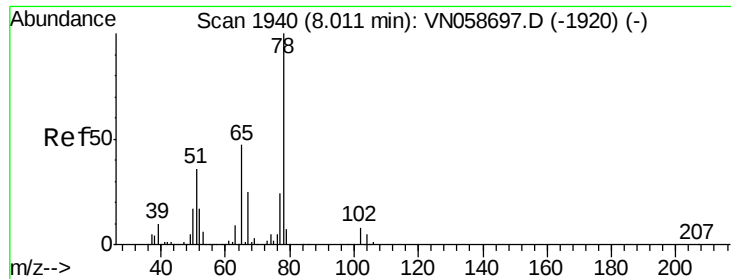
MMDadoda
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#32
1,1,1-Trichloroethane
Concen: 5.355 ug/l
RT: 7.55 min Scan# 1797
Delta R.T. -0.00 min
Lab File: VN058755.D
Acq: 14 Oct 2019 17:39

Tgt Ion	Ratio	Lower	Upper
97	100		
99	66.4	50.8	76.2
61	49.3	38.1	57.1





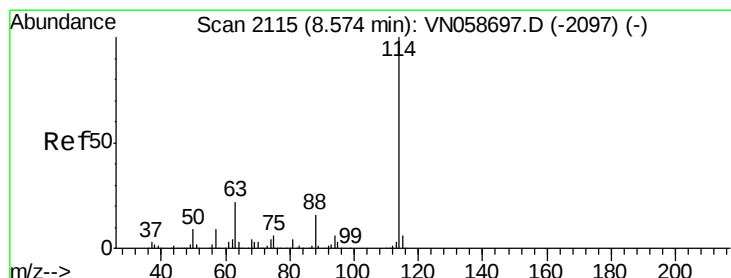
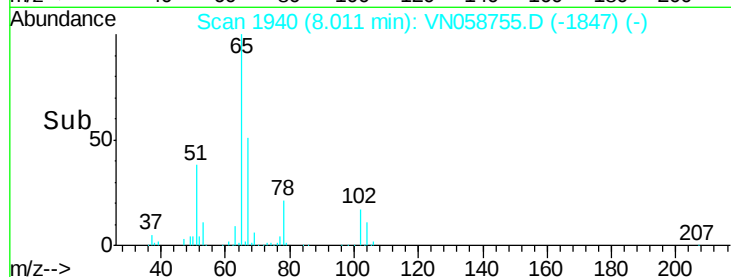
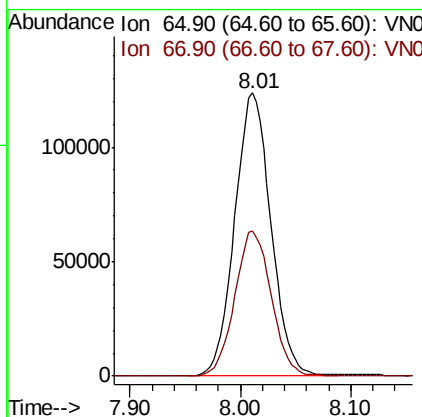
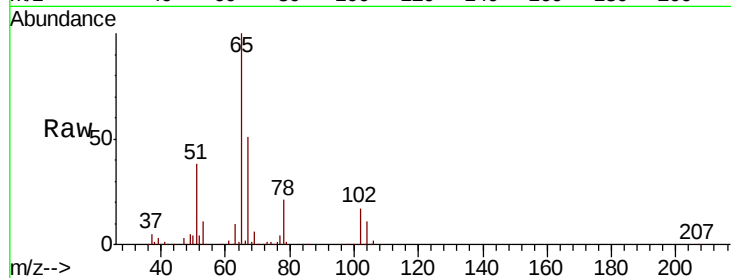
#33
 1,2-Dichloroethane-d4
 Concen: 53.608 ug/l
 RT: 8.01 min Scan# 1940
 Delta R.T. -0.00 min
 Lab File: VN058755.D
 Acq: 14 Oct 2019 17:39

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

Tot Ion	Ratio	Resp	Lower	Upper
65	100	281093		
67	51.9	0.0	103.8	

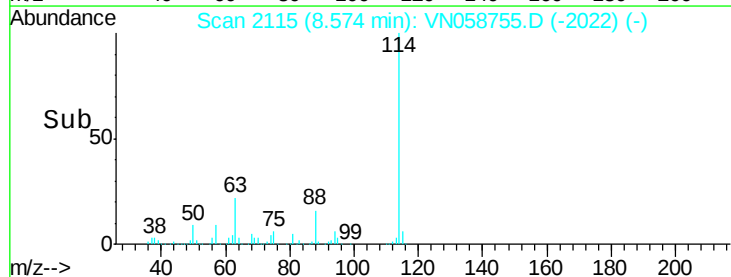
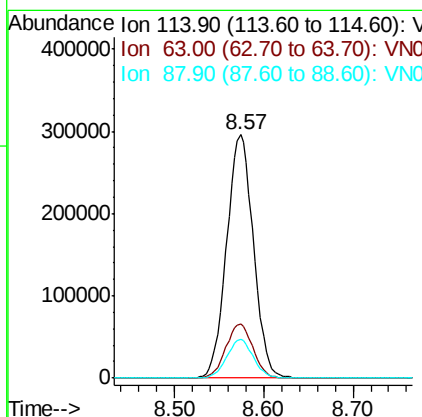
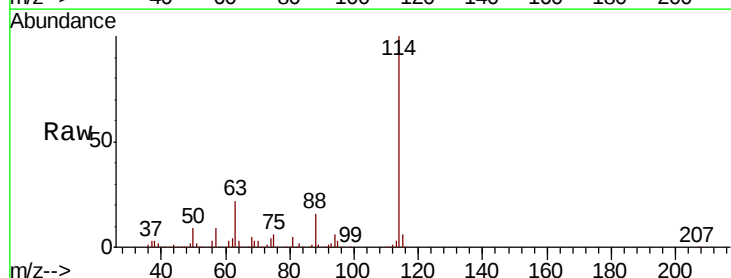
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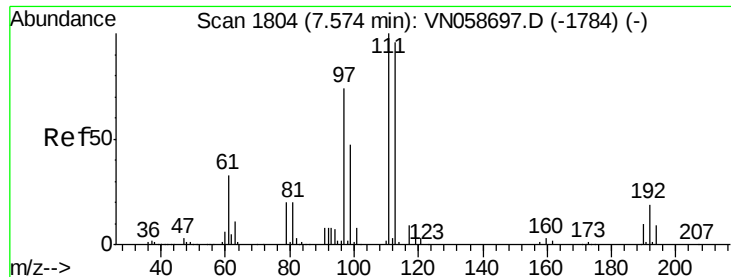
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. -0.00 min
 Lab File: VN058755.D
 Acq: 14 Oct 2019 17:39

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	614914		
63	22.0	0.0	43.8	
88	16.1	0.0	32.0	





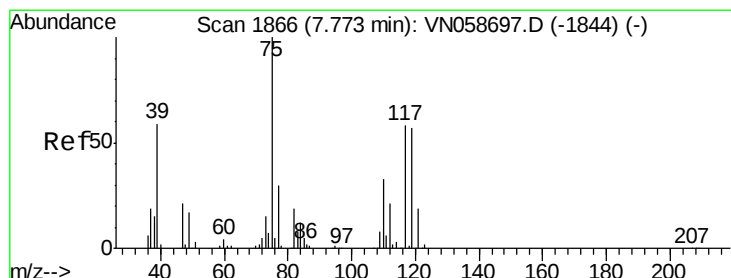
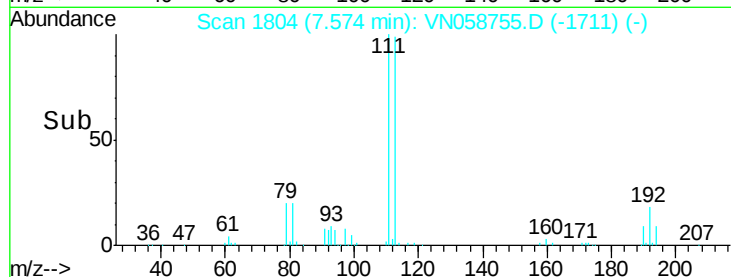
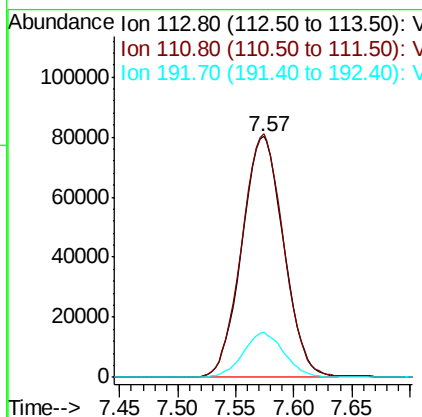
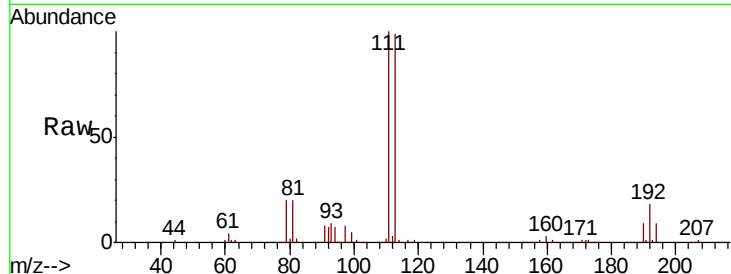
#35
Dibromofluoromethane
Concen: 52.981 ug/l
RT: 7.57 min Scan# 1804
Delta R.T. -0.00 min
Lab File: VN058755.D
Acq: 14 Oct 2019 17:39

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

Tot Ion	Ratio	Resp	Lower	Upper
113	100	201231		
111	101.3	82.3	123.5	
192	18.3	15.0	22.6	

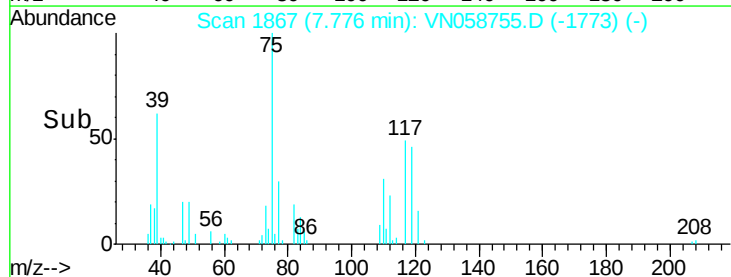
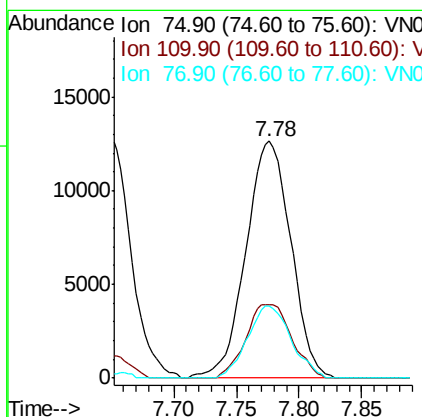
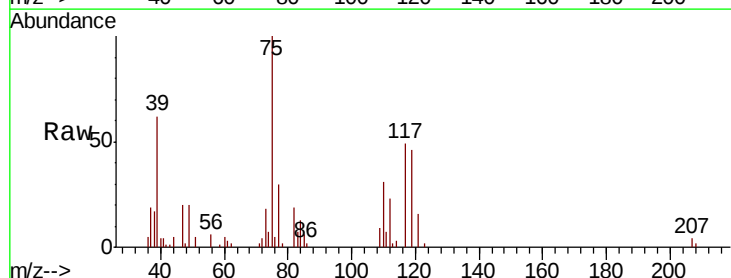
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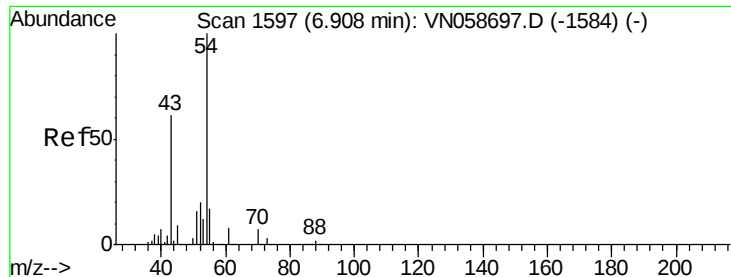
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#36
1,1-Dichloropropene
Concen: 5.069 ug/l
RT: 7.78 min Scan# 1867
Delta R.T. 0.00 min
Lab File: VN058755.D
Acq: 14 Oct 2019 17:39

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	31518		
110	31.6	16.6	49.8	
77	29.5	24.6	37.0	





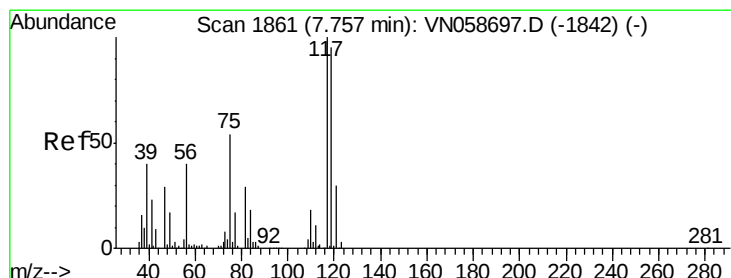
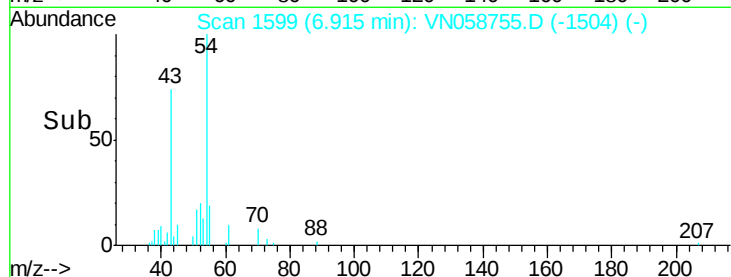
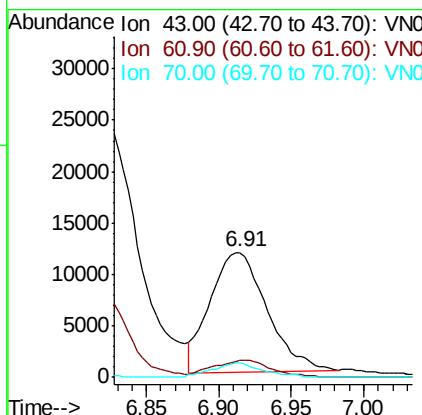
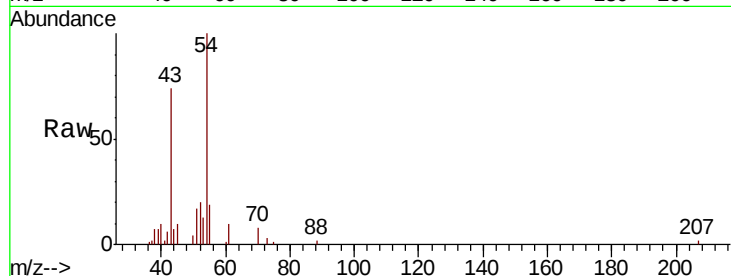
#37
Ethyl Acetate
Concen: 5.094 ug/l
RT: 6.91 min Scan# 1599
Delta R.T. 0.01 min
Lab File: VN058755.D
Acq: 14 Oct 2019 17:39

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

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.7	11.3	16.9
70	10.5	7.2	10.8

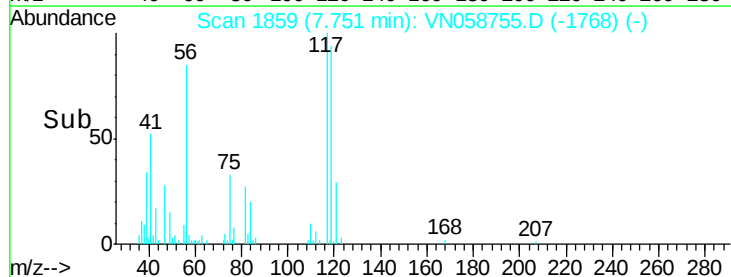
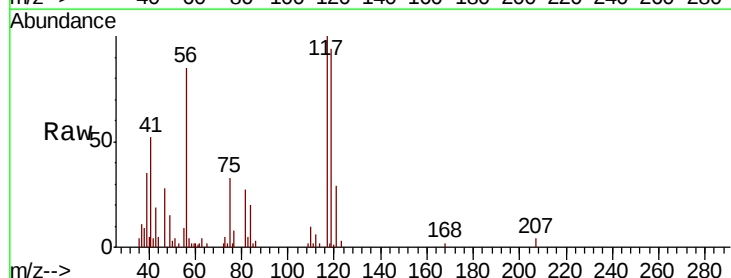
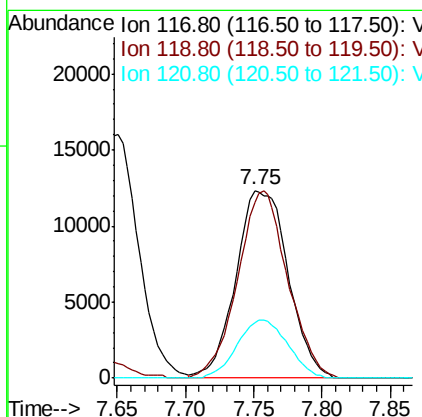
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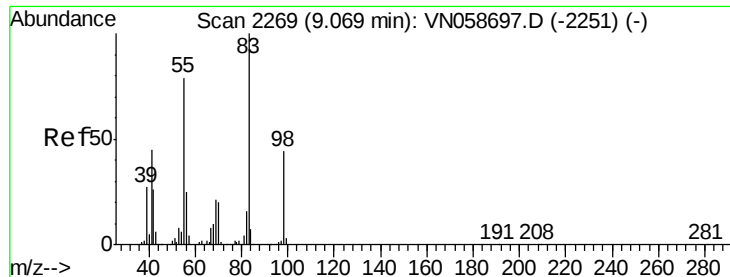
MMDadoda
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#38
Carbon Tetrachloride
Concen: 5.412 ug/l
RT: 7.75 min Scan# 1859
Delta R.T. -0.01 min
Lab File: VN058755.D
Acq: 14 Oct 2019 17:39

Tgt Ion	Ratio	Lower	Upper
117	100		
119	94.1	75.7	113.5
121	29.4	23.9	35.9





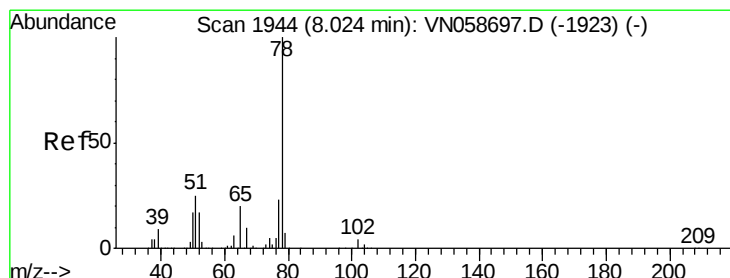
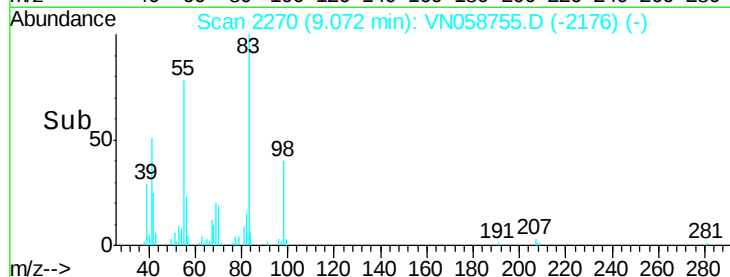
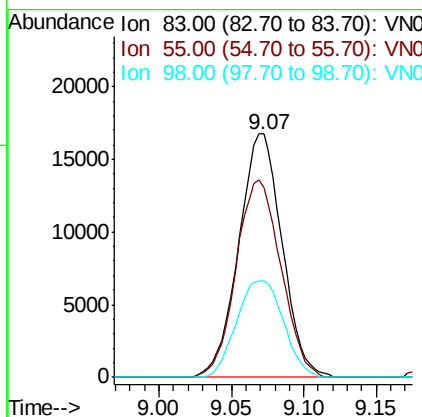
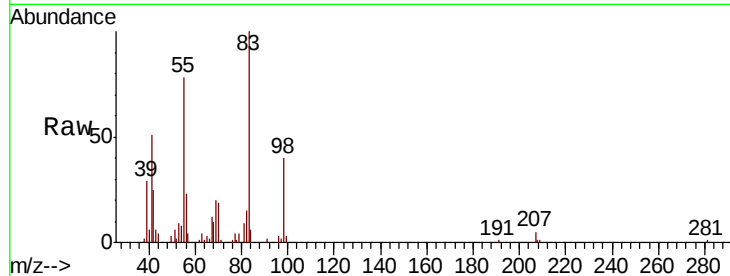
#39
Methvlcvclohexane
Concen: 4.836 ug/l
RT: 9.07 min Scan# 2270
Delta R.T. 0.00 min
Lab File: VN058755.D
Acq: 14 Oct 2019 17:39

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

Tot Ion	Ratio	Lower	Upper
83	100		
55	78.1	63.4	95.0
98	39.8	35.1	52.7

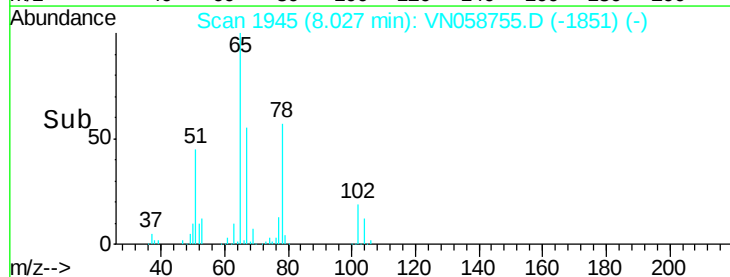
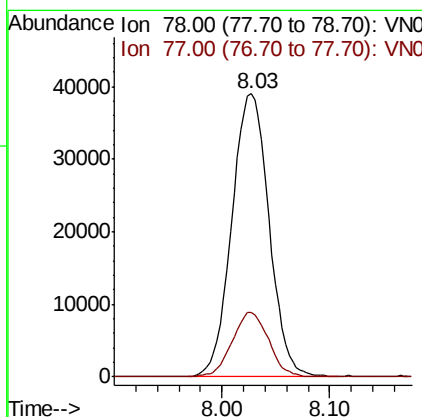
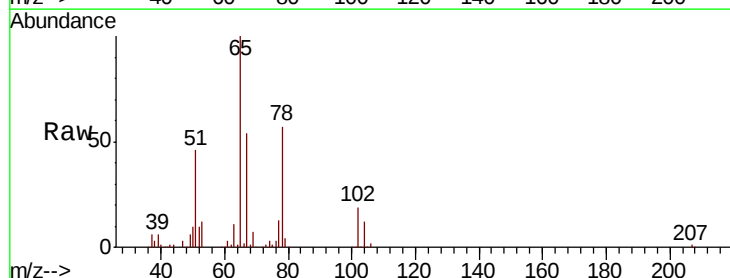
Manual Integrations
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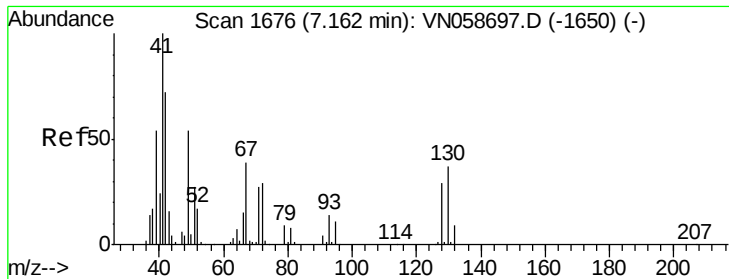
MMDadoda
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#40
Benzene
Concen: 5.248 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN058755.D
Acq: 14 Oct 2019 17:39

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.9	18.8	28.2





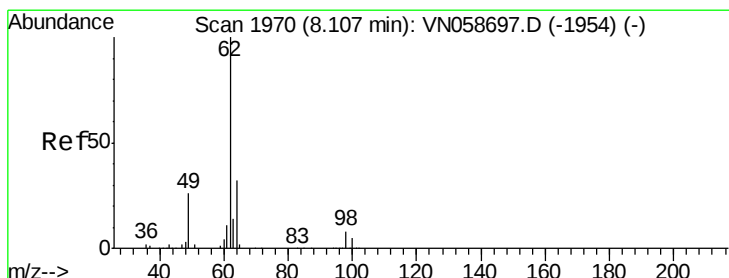
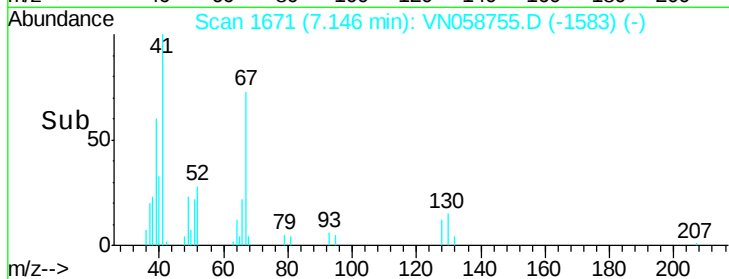
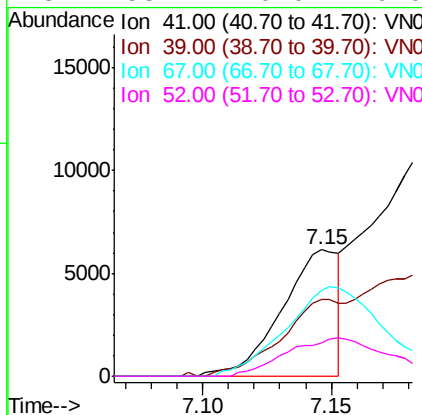
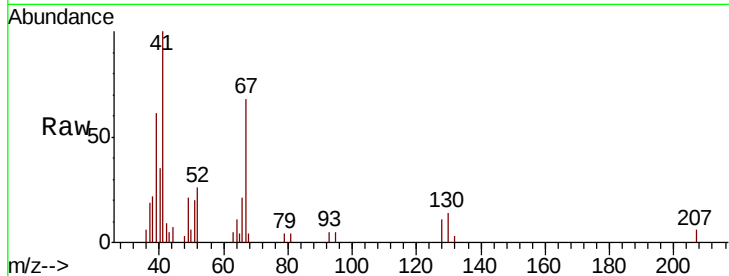
#41
Methacrylonitrile
Concen: 3.186 ug/l
RT: 7.15 min Scan# 1671
Delta R.T. -0.02 min
Lab File: VN058755.D
Acq: 14 Oct 2019 17:39

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

Tot Ion:	41	Resp:	9377
Ion	Ratio	Lower	Upper
41	100		
39	68.7	115.4	173.2#
67	128.9	0.0	0.0#
52	53.4	0.0	0.0#

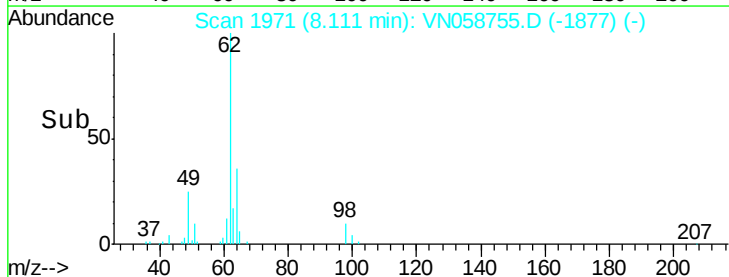
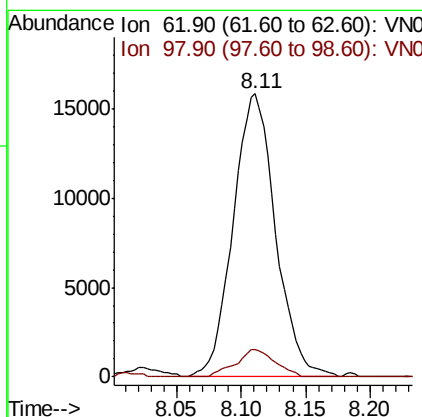
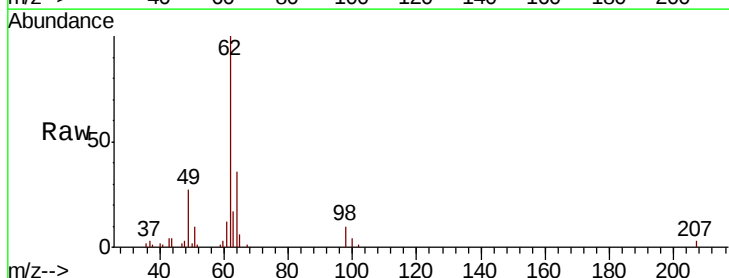
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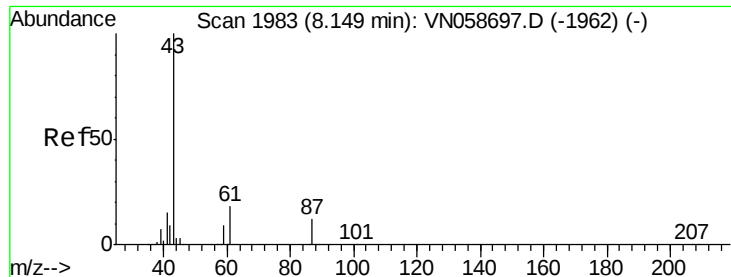
MMDadoda
10/16/2019 12:57:12 AM



#42
1,2-Dichloroethane
Concen: 5.290 ug/l
RT: 8.11 min Scan# 1971
Delta R.T. 0.00 min
Lab File: VN058755.D
Acq: 14 Oct 2019 17:39

Tgt Ion:	62	Resp:	36286
Ion	Ratio	Lower	Upper
62	100		
98	9.0	0.0	15.8





#43

Isopropyl Acetate

Concen: 5.045 ug/l

RT: 8.15 min Scan# 1983

Delta R.T. -0.00 min

Lab File: VN058755.D

Acq: 14 Oct 2019 17:39

Instrument :

MSVOA_N

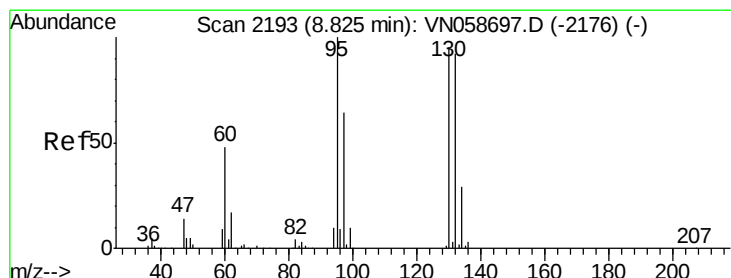
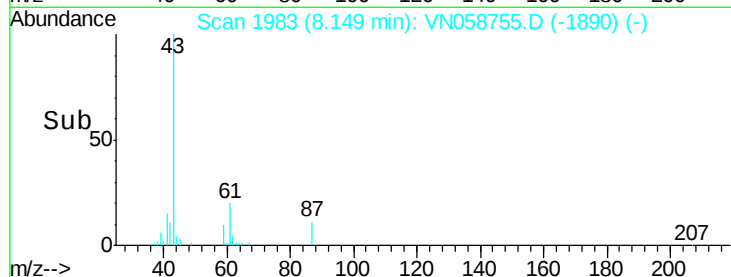
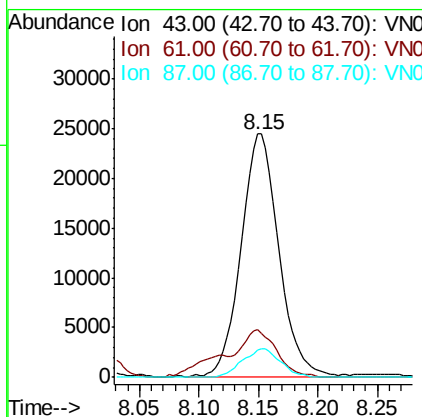
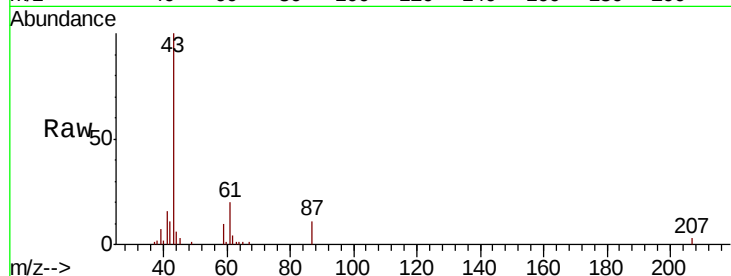
ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion:	43	Resp:	54040
Ion	Ratio	Lower	Upper
43	100		
61	18.1	20.3	30.5#
87	11.8	9.8	14.6

Manual Integrations
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MMDadoda
10/16/2019 12:57:12 AM



#44

Trichloroethene

Concen: 5.407 ug/l

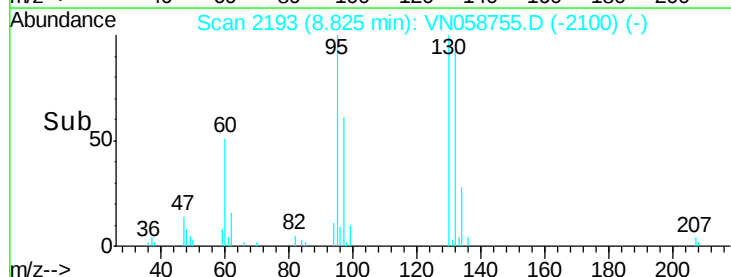
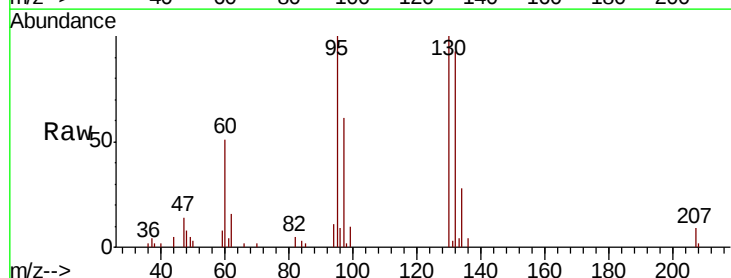
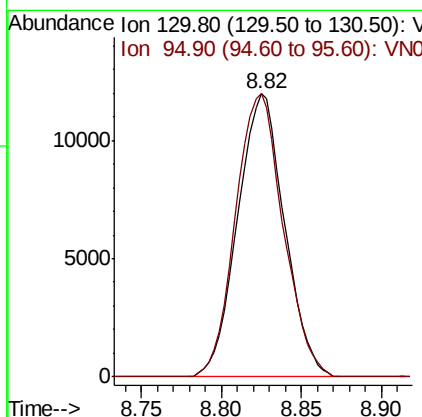
RT: 8.82 min Scan# 2193

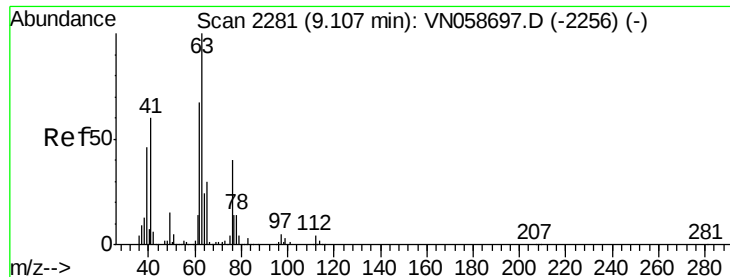
Delta R.T. -0.00 min

Lab File: VN058755.D

Acq: 14 Oct 2019 17:39

Tgt Ion:	130	Resp:	23975
Ion	Ratio	Lower	Upper
130	100		
95	100.1	0.0	211.2





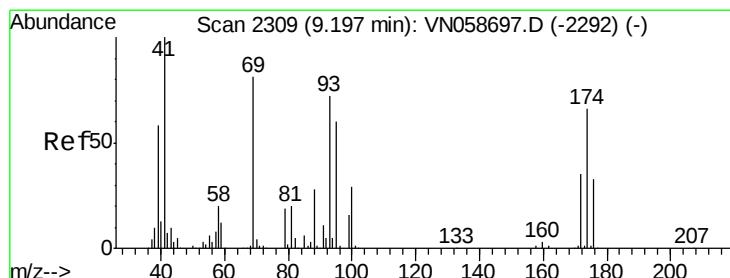
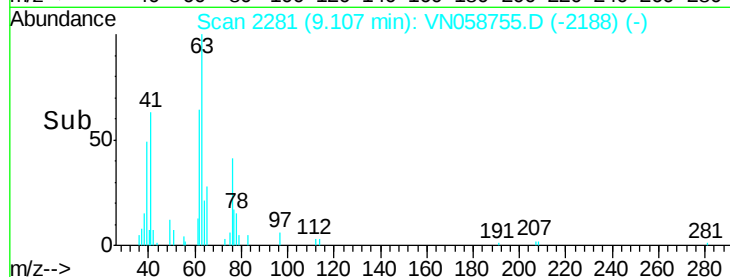
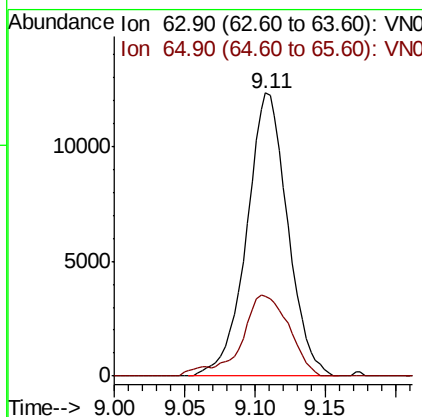
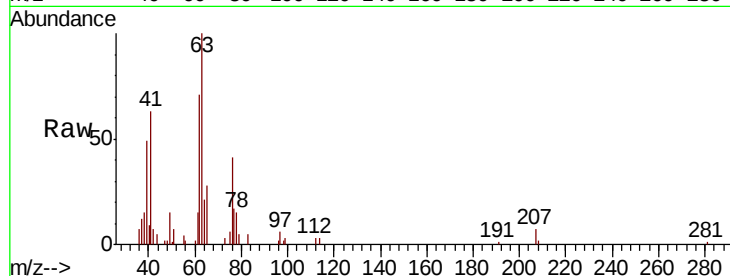
#45
 1,2-Dichloropropane
 Concen: 5.246 ug/l
 RT: 9.11 min Scan# 2281
 Delta R.T. -0.00 min
 Lab File: VN058755.D
 Acq: 14 Oct 2019 17:39

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

Tot Ion	Ratio	Lower	Upper
63	100		
65	28.2	24.1	36.1

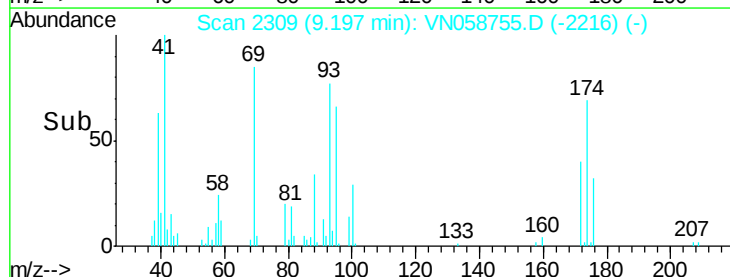
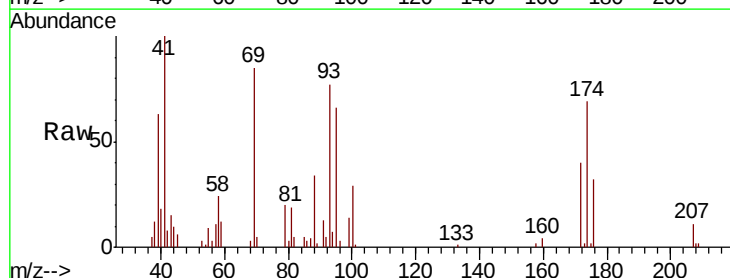
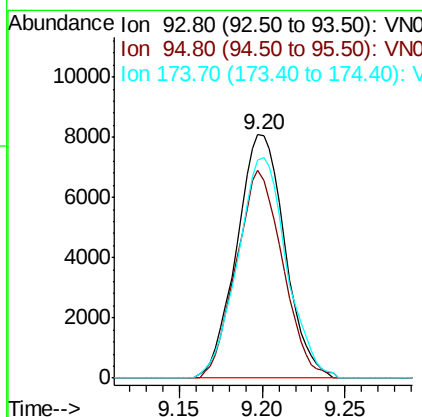
Manual Integrations
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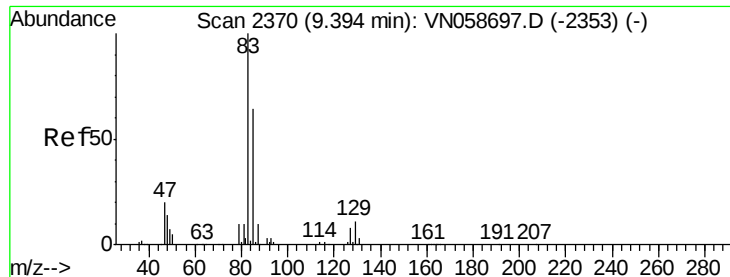
MMDadoda
 10/16/2019 12:57:12 AM



#46
 Dibromomethane
 Concen: 5.385 ug/l
 RT: 9.20 min Scan# 2309
 Delta R.T. -0.00 min
 Lab File: VN058755.D
 Acq: 14 Oct 2019 17:39

Tgt Ion	Ratio	Lower	Upper
93	100		
95	82.2	66.6	100.0
174	92.0	75.2	112.8





#47

Bromodichloromethane

Concen: 5.440 ug/l

RT: 9.39 min Scan# 2370

Delta R.T. -0.00 min

Lab File: VN058755.D

Acq: 14 Oct 2019 17:39

Instrument :

MSVOA_N

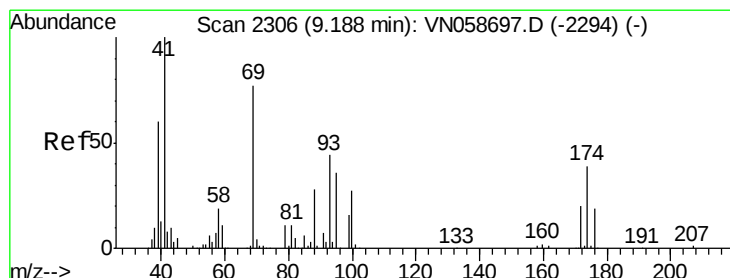
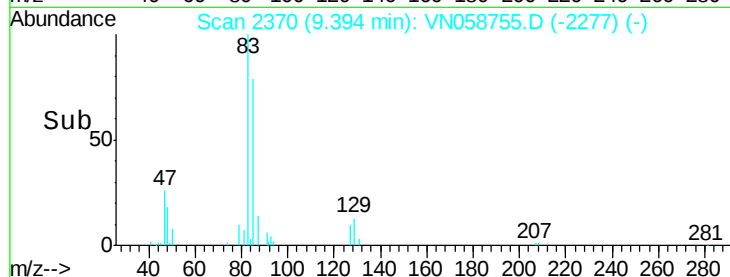
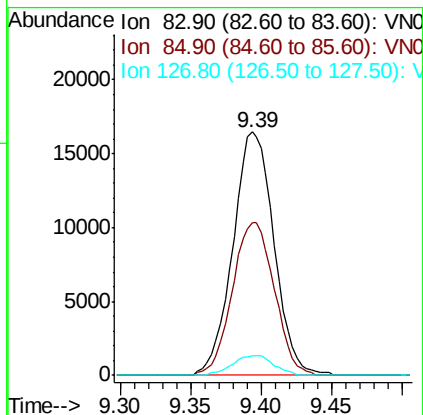
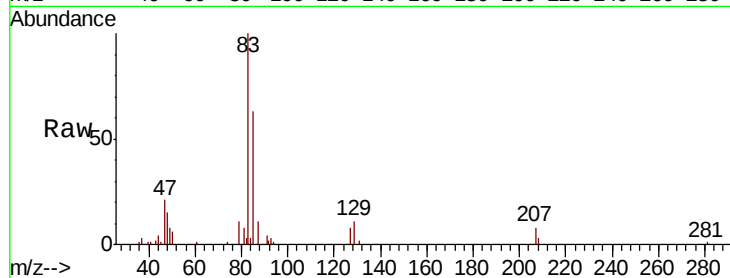
ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion:	83	Resp:	33569
Ion Ratio	Lower	Upper	
83	100		
85	62.7	50.9	76.3
127	7.9	6.3	9.5

Manual Integrations
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MMDadoda
10/16/2019 12:57:12 AM



#48

Methyl methacrylate

Concen: 4.768 ug/l

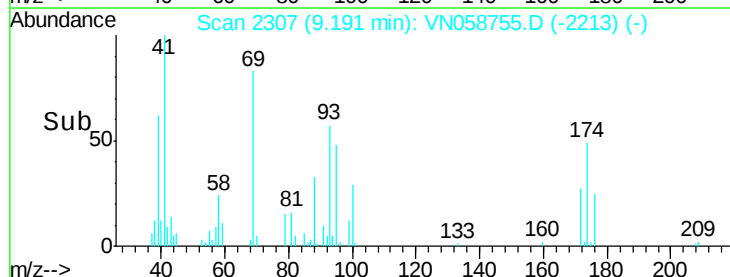
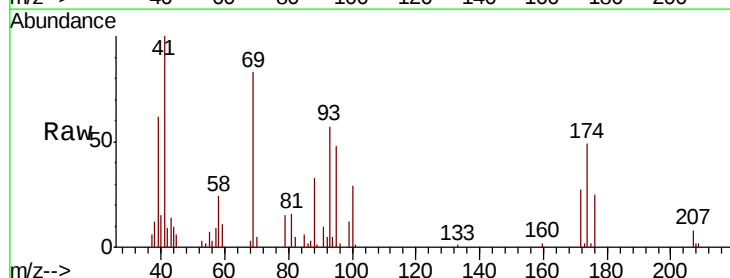
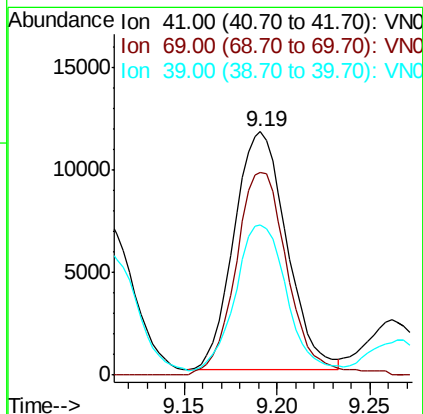
RT: 9.19 min Scan# 2307

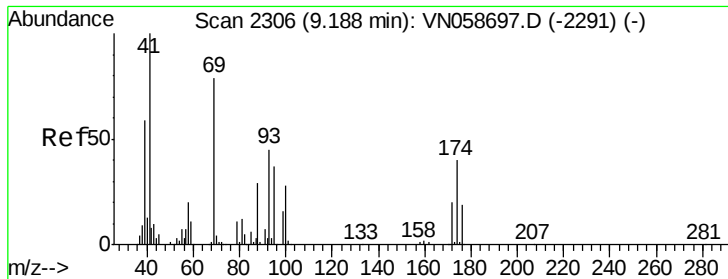
Delta R.T. 0.00 min

Lab File: VN058755.D

Acq: 14 Oct 2019 17:39

Tgt Ion:	41	Resp:	23149
Ion Ratio	Lower	Upper	
41	100		
69	83.7	63.4	95.2
39	60.7	48.9	73.3





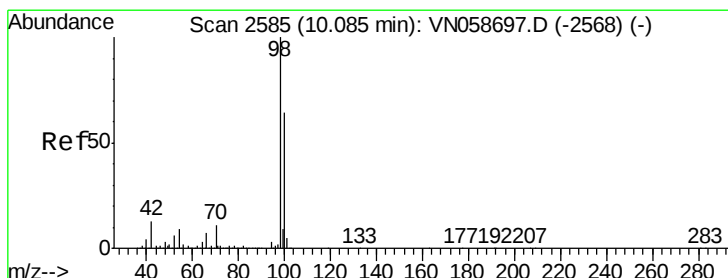
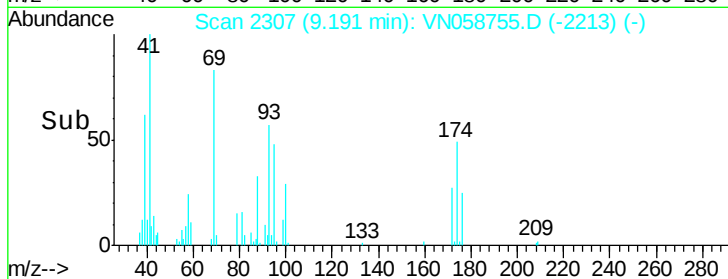
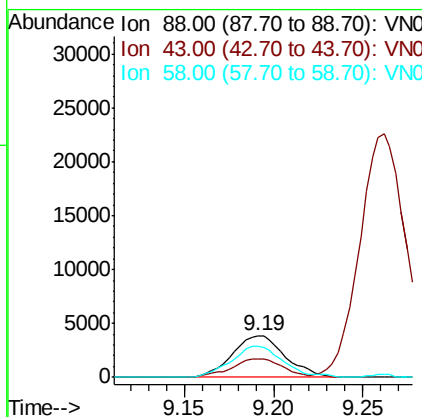
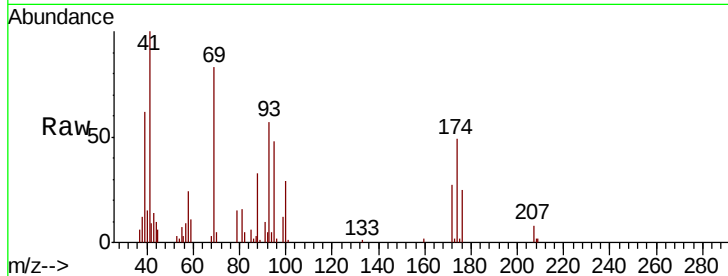
#49
1,4-Dioxane
Concen: 105.958 ug/l
RT: 9.19 min Scan# 2307
Delta R.T. 0.00 min
Lab File: VN058755.D
Acq: 14 Oct 2019 17:39

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

Tot Ion	Ratio	Lower	Upper
88	100		
43	42.4	28.6	43.0
58	73.4	57.2	85.8

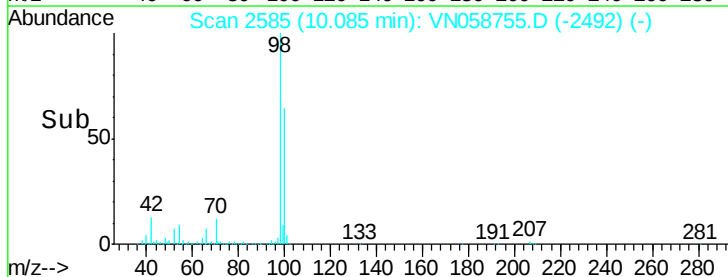
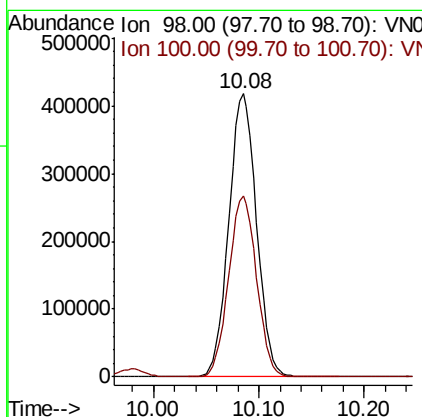
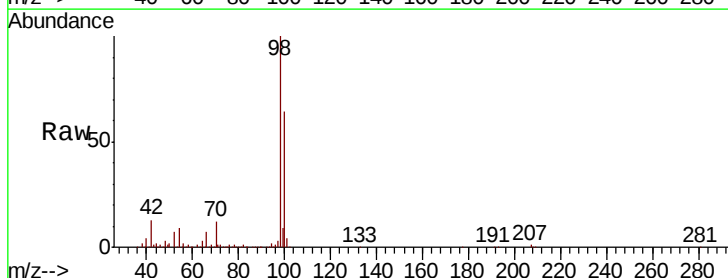
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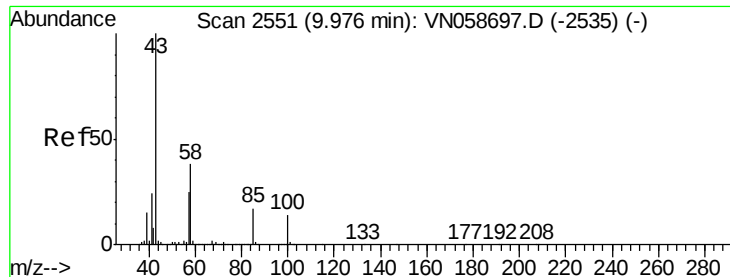
MMDadoda
10/16/2019 12:57:12 AM



#50
Toluene-d8
Concen: 50.007 ug/l
RT: 10.08 min Scan# 2585
Delta R.T. -0.00 min
Lab File: VN058755.D
Acq: 14 Oct 2019 17:39

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.3	51.1	76.7





#51

4-Methyl-2-Pentanone

Concen: 26.670 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VN058755.D

Acq: 14 Oct 2019 17:39

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion: 43 Resp: 160435

Ion Ratio Lower Upper

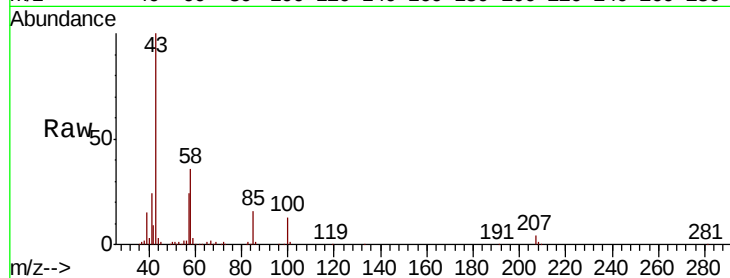
43 100

58 35.8 30.3 45.5

Manual Integrations
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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

9.98

80000

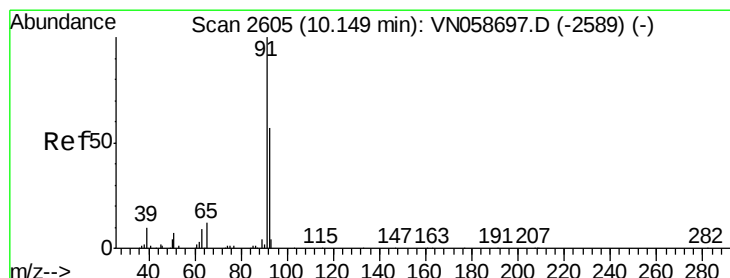
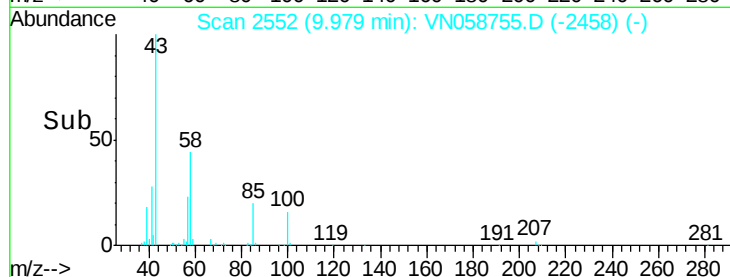
60000

40000

20000

0

Time-->



#52

Toluene

Concen: 5.135 ug/l

RT: 10.15 min Scan# 2605

Delta R.T. -0.00 min

Lab File: VN058755.D

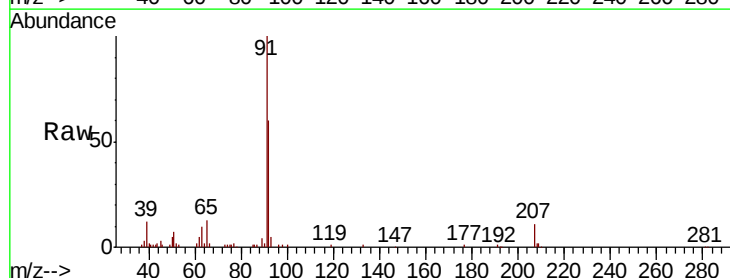
Acq: 14 Oct 2019 17:39

Tgt Ion: 92 Resp: 56084

Ion Ratio Lower Upper

92 100

91 172.9 139.1 208.7



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0

60000

50000

40000

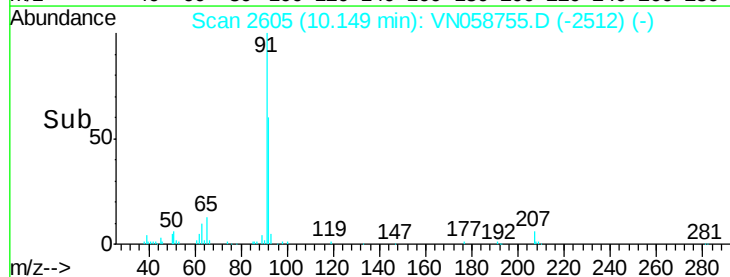
30000

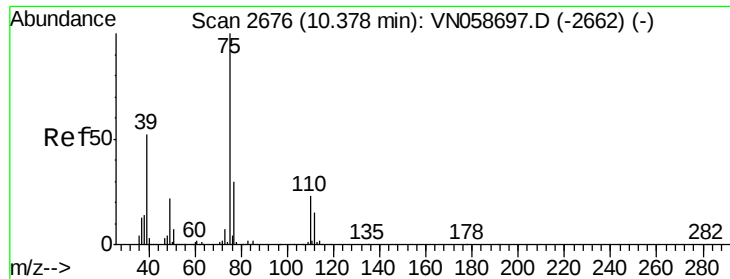
20000

10000

0

Time-->





#53

t-1,3-Dichloropropene

Concen: 4.883 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. 0.00 min

Lab File: VN058755.D

Acq: 14 Oct 2019 17:39

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion: 75 Resp: 34561

Ion Ratio Lower Upper

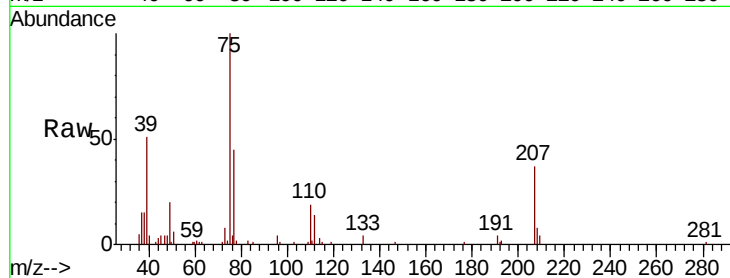
75 100

77 36.5 26.2 39.4

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Abundance Ion 74.90 (74.60 to 75.60): VN058755.D (-2583) (-)

Ion 76.90 (76.60 to 77.60): VN058755.D (-2583) (-)

30000

25000

20000

15000

10000

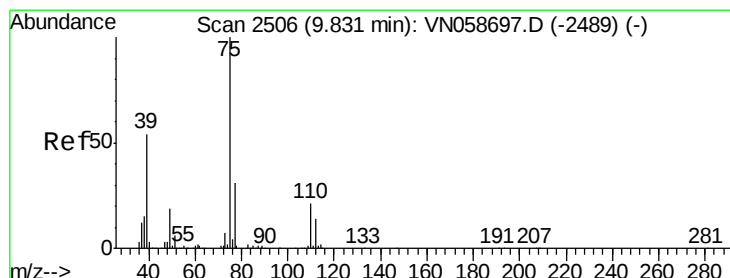
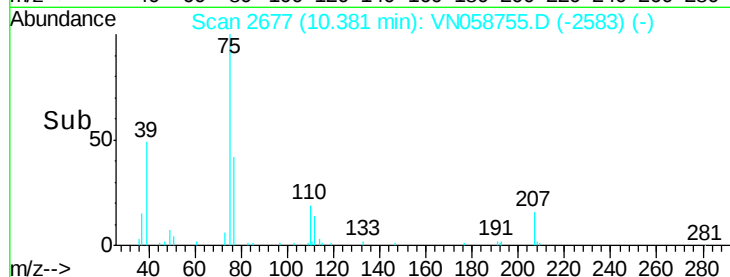
5000

0

Time-->

10.30 10.35 10.40 10.45

10.38



#54

cis-1,3-Dichloropropene

Concen: 4.860 ug/l

RT: 9.83 min Scan# 2506

Delta R.T. 0.00 min

Lab File: VN058755.D

Acq: 14 Oct 2019 17:39

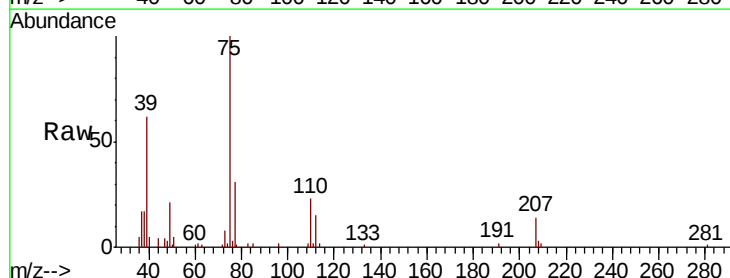
Tgt Ion: 75 Resp: 36523

Ion Ratio Lower Upper

75 100

77 31.3 24.4 36.6

39 61.8 43.1 64.7



Abundance Ion 74.90 (74.60 to 75.60): VN058755.D (-2413) (-)

Ion 76.90 (76.60 to 77.60): VN058755.D (-2413) (-)

Ion 39.00 (38.70 to 39.70): VN058755.D (-2413) (-)

25000

20000

15000

10000

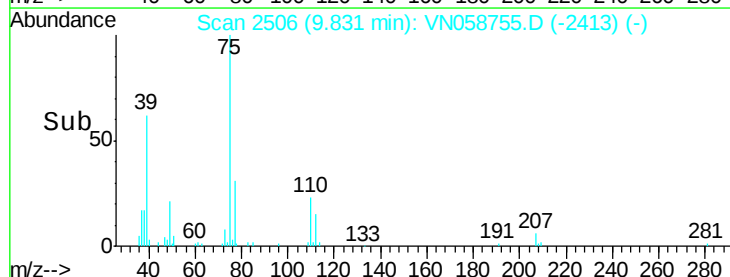
5000

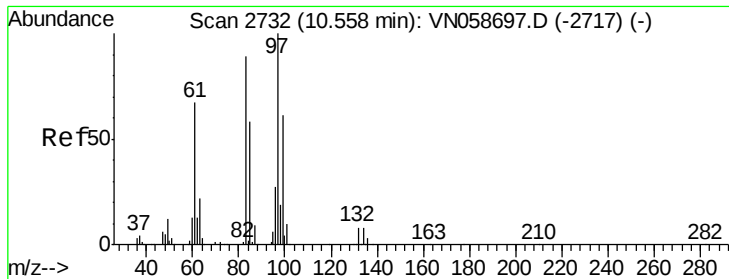
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Time-->

9.75 9.80 9.85 9.90

9.83





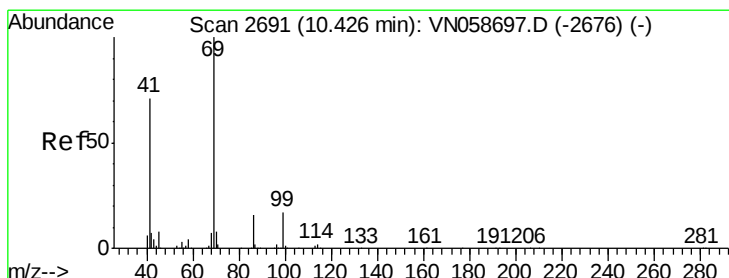
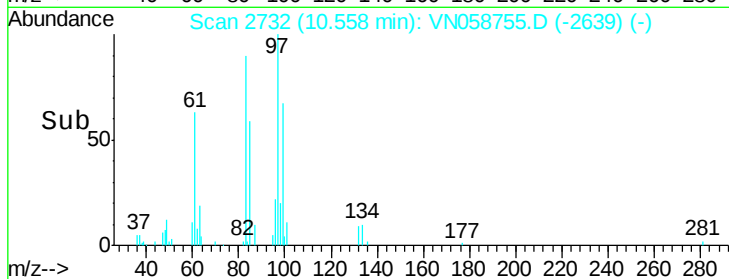
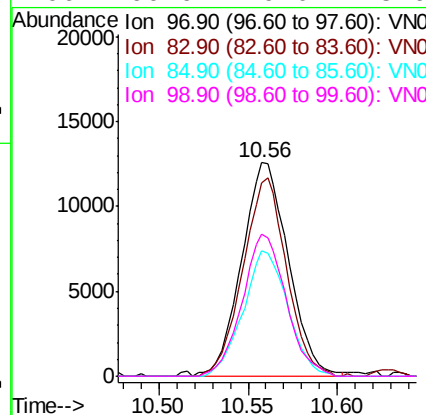
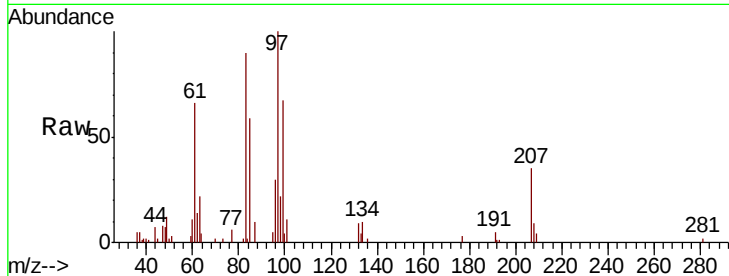
#55
 1,1,2-Trichloroethane
 Concen: 5.142 ug/l
 RT: 10.56 min Scan# 2732
 Delta R.T. -0.00 min
 Lab File: VN058755.D
 Acq: 14 Oct 2019 17:39

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

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		22986		
83	90.4	71.2	106.8		
85	58.5	46.7	70.1		
99	66.6	49.0	73.6		

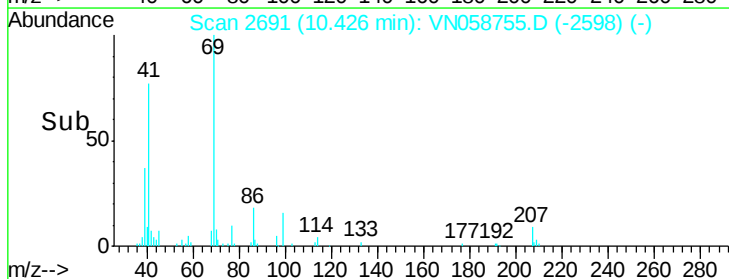
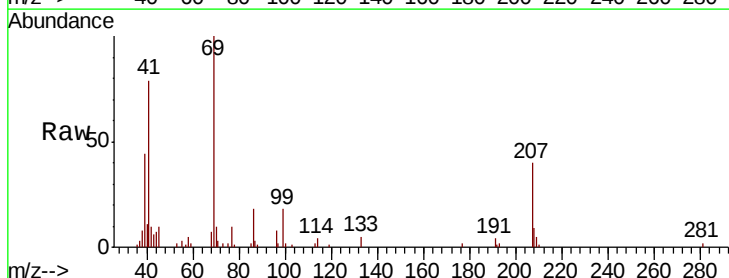
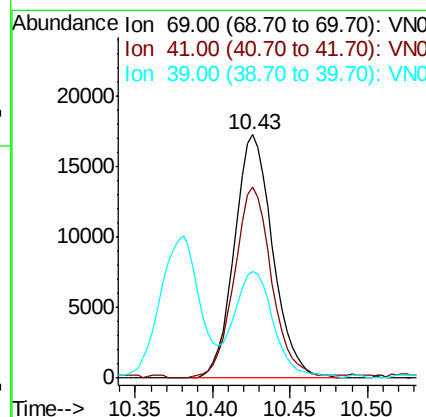
Manual Integrations
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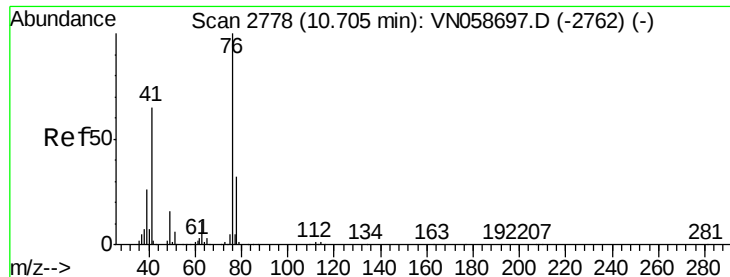
MMDadoda
 10/16/2019 12:57:12 AM



#56
 Ethyl methacrylate
 Concen: 4.546 ug/l
 RT: 10.43 min Scan# 2691
 Delta R.T. -0.00 min
 Lab File: VN058755.D
 Acq: 14 Oct 2019 17:39

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		29686		
41	76.9	56.8	85.2		
39	45.7	32.5	48.7		





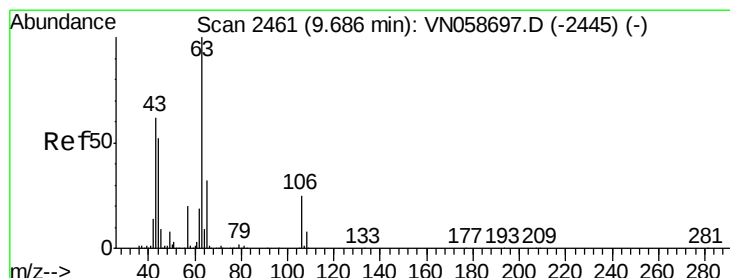
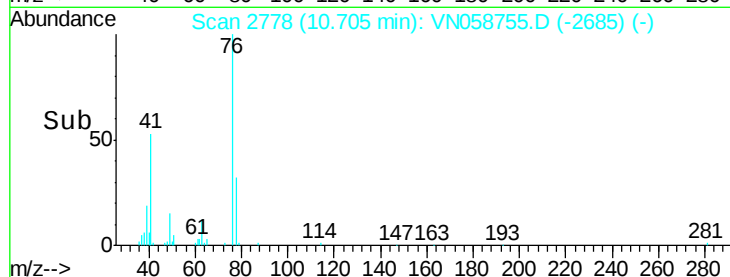
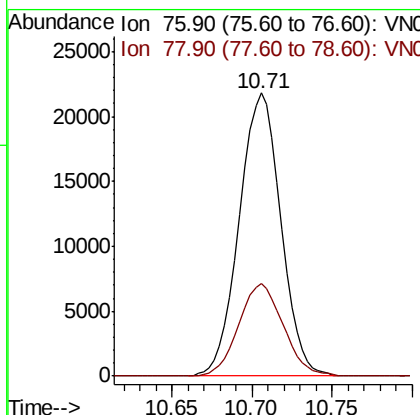
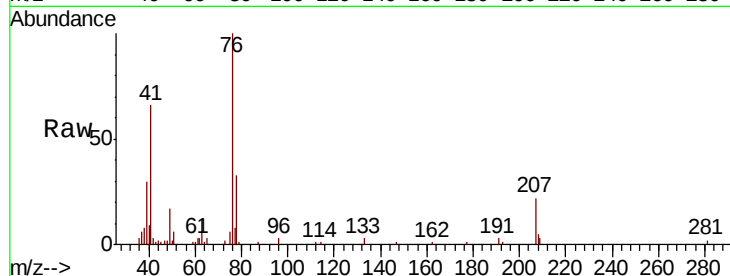
#57
 1,3-Dichloropropane
 Concen: 5.077 ug/l
 RT: 10.71 min Scan# 2778
 Delta R.T. -0.00 min
 Lab File: VN058755.D
 Acq: 14 Oct 2019 17:39

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

Tot Ion	Ratio	Lower	Upper
76	100		
78	35.0	25.9	38.9

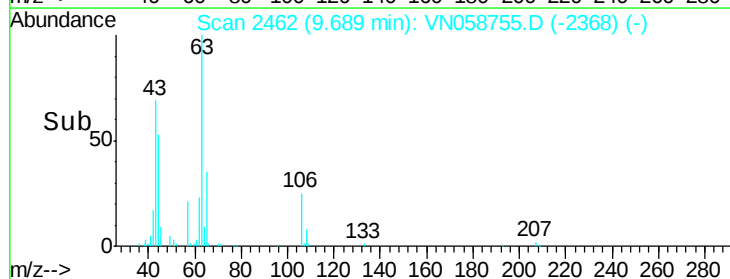
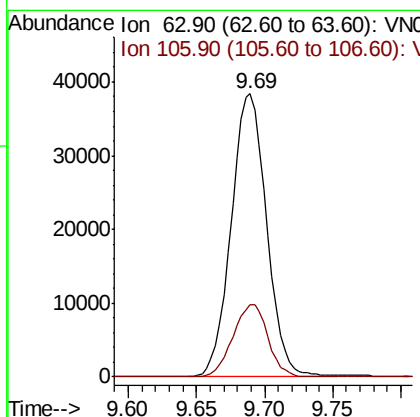
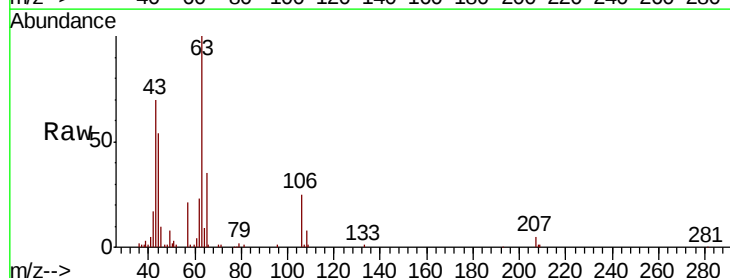
Manual Integrations
 APPROVED

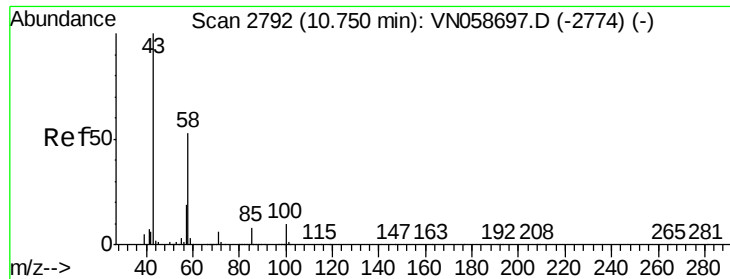
MMDadoda
 10/16/2019 12:57:12 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 21.993 ug/l
 RT: 9.69 min Scan# 2462
 Delta R.T. 0.00 min
 Lab File: VN058755.D
 Acq: 14 Oct 2019 17:39

Tgt Ion	Ratio	Lower	Upper
63	100		
106	25.0	20.0	30.0





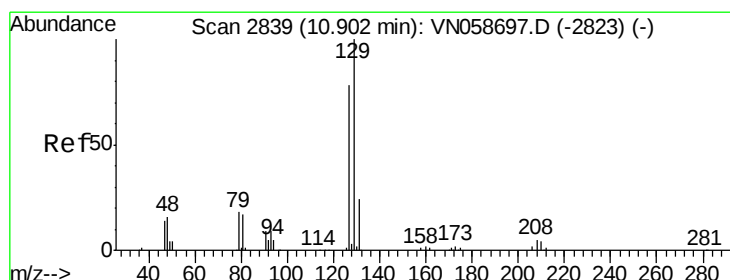
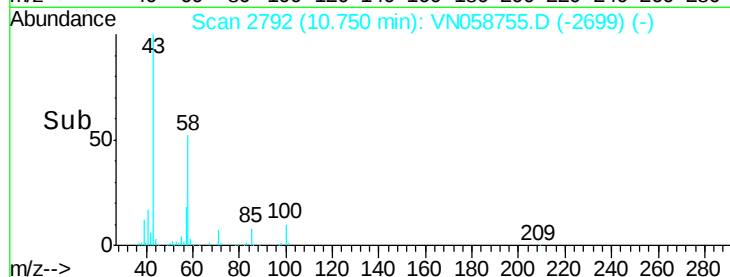
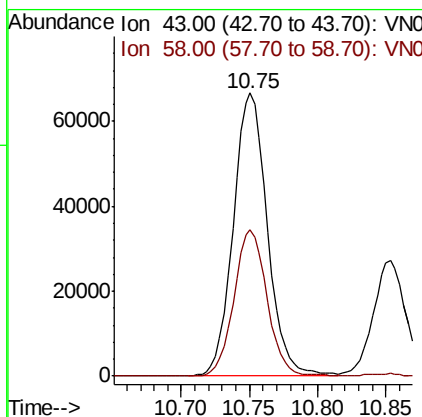
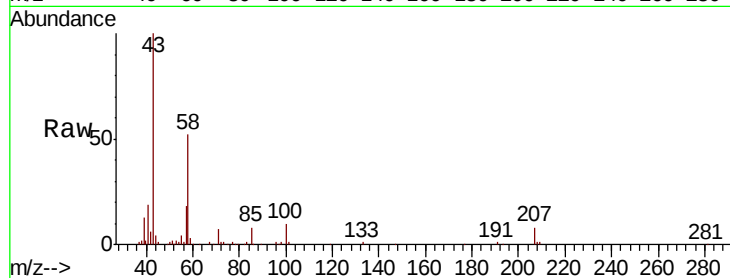
#59
2-Hexanone
Concen: 24.585 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. -0.00 min
Lab File: VN058755.D
Acq: 14 Oct 2019 17:39

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

Tot Ion	Ratio	Lower	Upper
43	100		
58	50.5	26.1	78.3

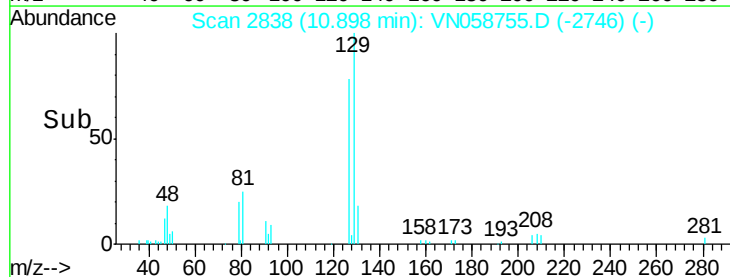
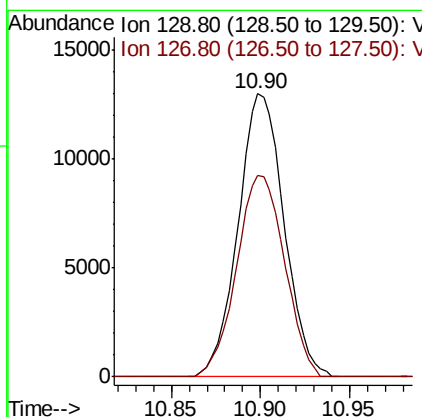
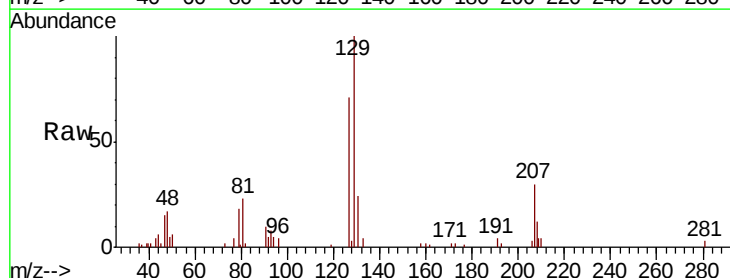
Manual Integrations
APPROVED

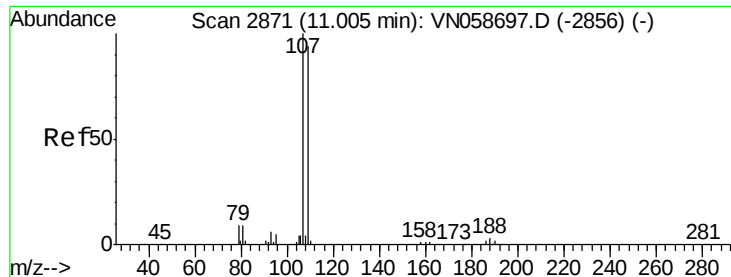
MMDadoda
10/16/2019 12:57:12 AM



#60
Dibromochloromethane
Concen: 5.058 ug/l
RT: 10.90 min Scan# 2838
Delta R.T. -0.00 min
Lab File: VN058755.D
Acq: 14 Oct 2019 17:39

Tgt Ion	Ratio	Lower	Upper
129	100		
127	74.2	38.5	115.3





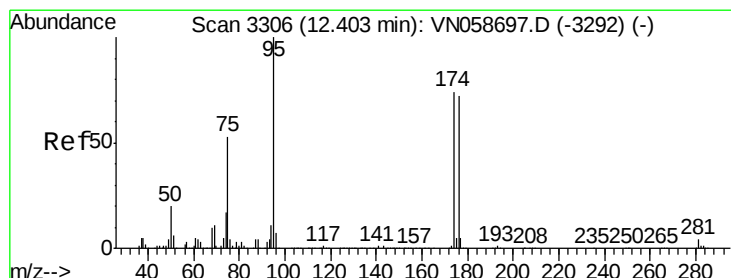
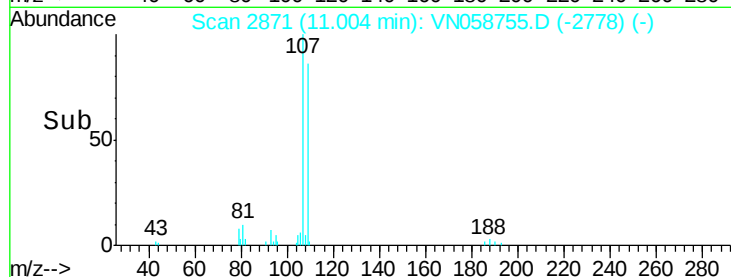
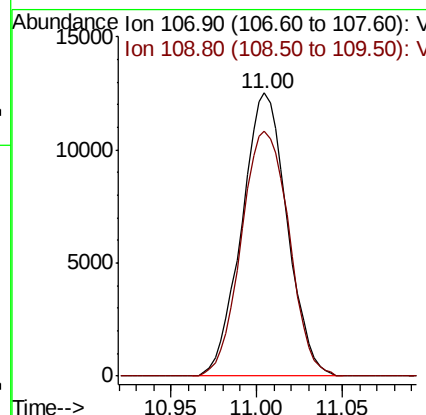
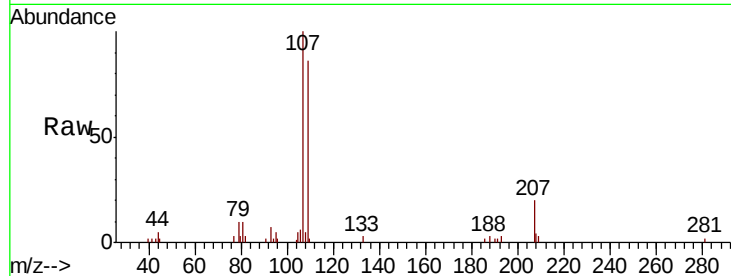
#61
1,2-Dibromoethane
Concen: 5.113 ug/l
RT: 11.00 min Scan# 2871
Delta R.T. -0.00 min
Lab File: VN058755.D
Acq: 14 Oct 2019 17:39

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

Tot Ion	Ratio	Lower	Upper
107	100		
109	90.8	75.4	113.0

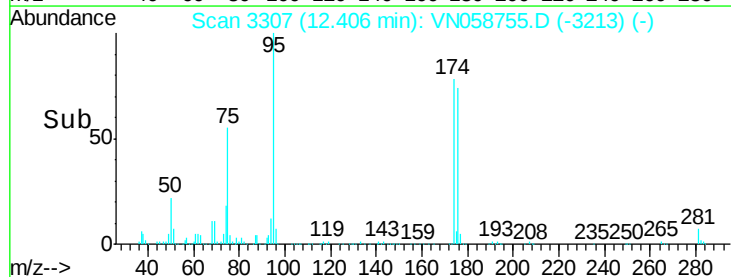
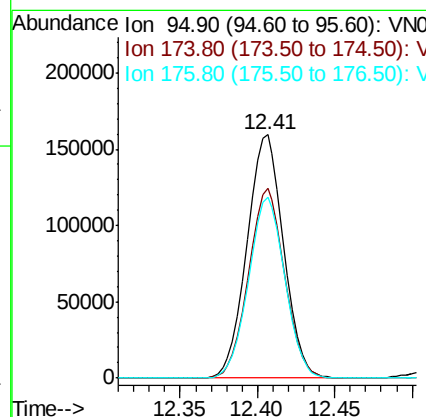
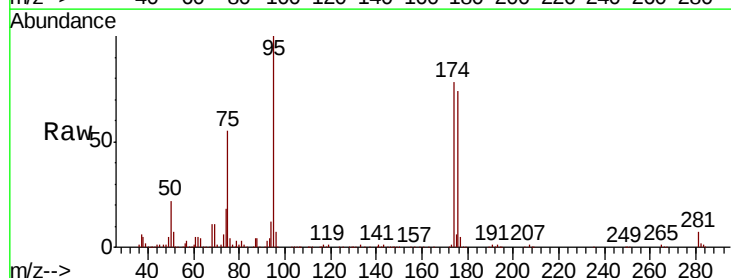
Manual Integrations
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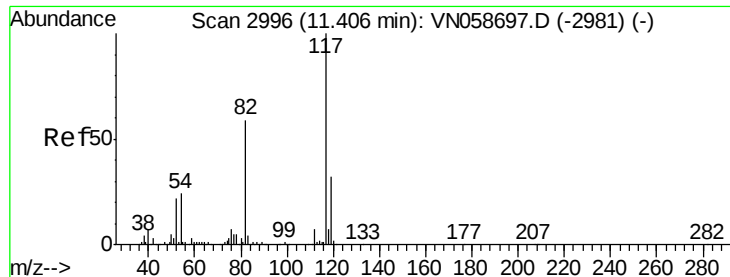
MMDadoda
10/16/2019 12:57:12 AM



#62
4-Bromofluorobenzene
Concen: 45.669 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.00 min
Lab File: VN058755.D
Acq: 14 Oct 2019 17:39

Tgt Ion	Ratio	Lower	Upper
95	100		
174	77.0	0.0	150.4
176	73.9	0.0	146.8





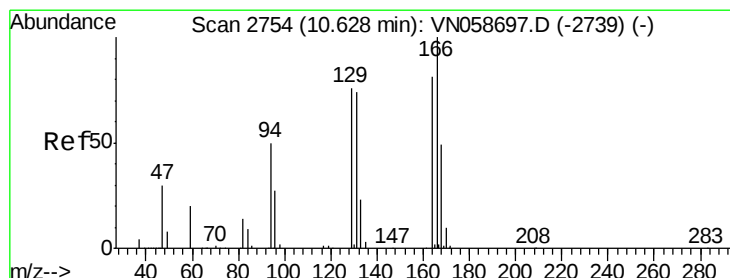
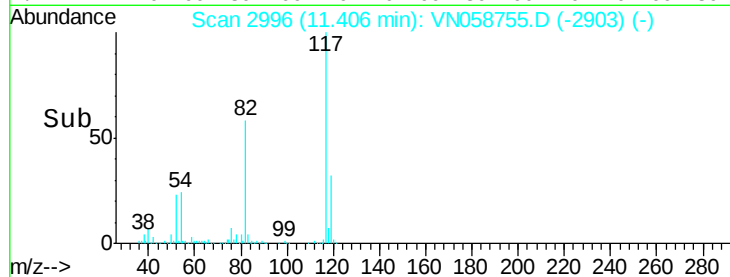
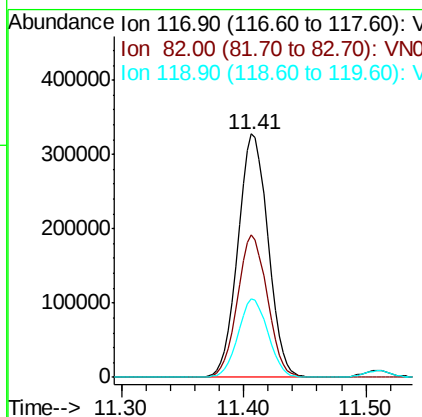
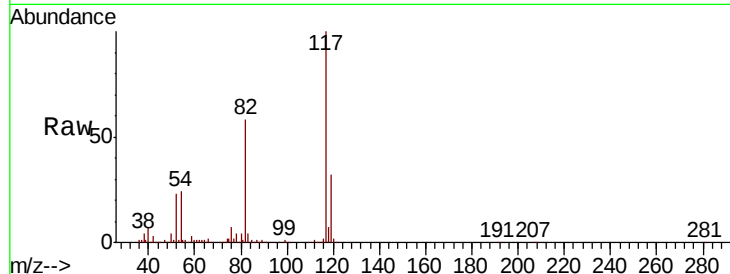
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN058755.D
Acq: 14 Oct 2019 17:39

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

Tot Ion	Ratio	Resp	Lower	Upper
117	100	558552		
82	58.3		47.0	70.4
119	32.1		25.4	38.2

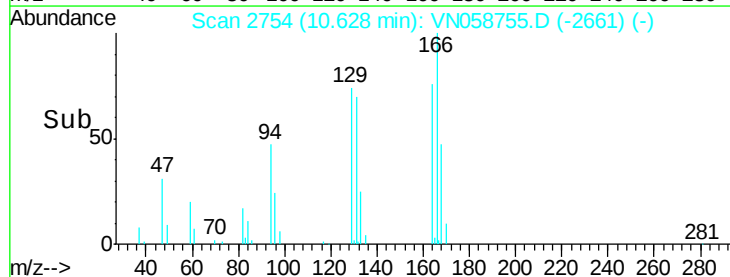
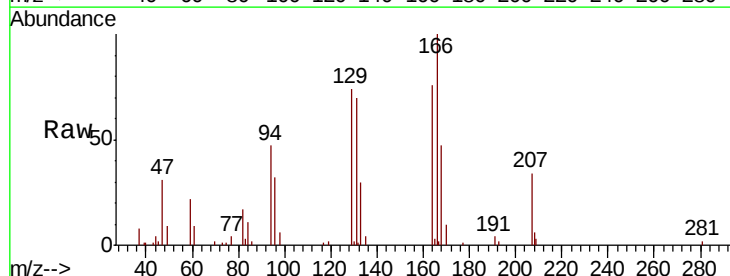
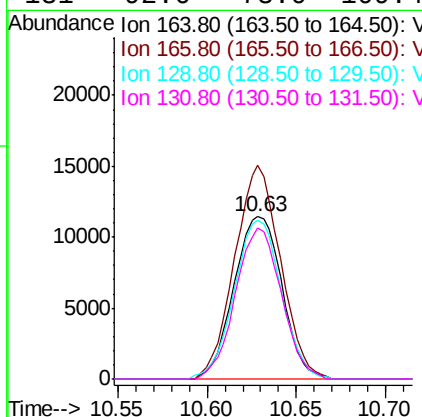
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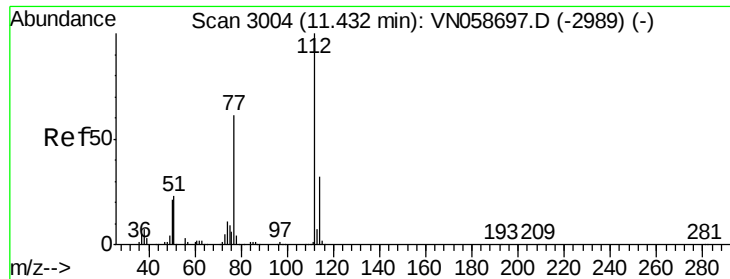
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#64
Tetrachloroethene
Concen: 5.506 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. -0.00 min
Lab File: VN058755.D
Acq: 14 Oct 2019 17:39

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	21524		
166	131.5		99.3	148.9
129	97.7		75.2	112.8
131	92.6		73.0	109.4





#65

Chlorobenzene

Concen: 5.101 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. -0.00 min

Lab File: VN058755.D

Acq: 14 Oct 2019 17:39

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion:112 Resp: 57862

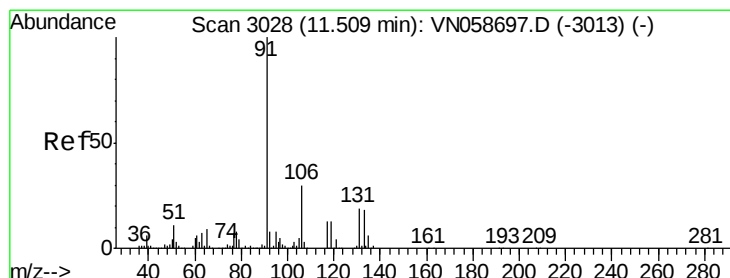
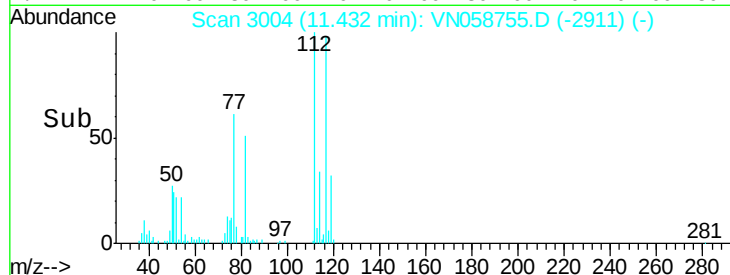
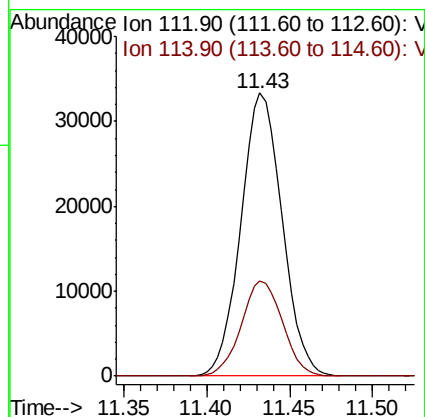
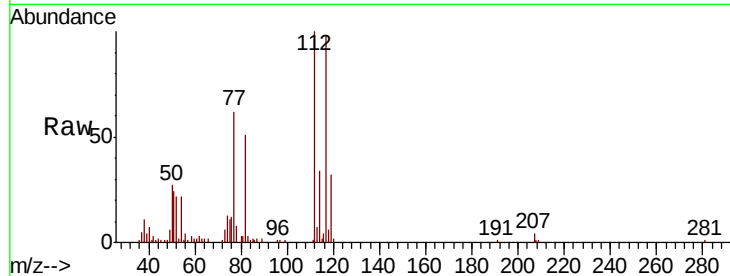
Ion Ratio Lower Upper

112 100

114 33.8 25.2 37.8

Manual Integrations
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#66

1,1,1,2-Tetrachloroethane

Concen: 5.264 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. -0.00 min

Lab File: VN058755.D

Acq: 14 Oct 2019 17:39

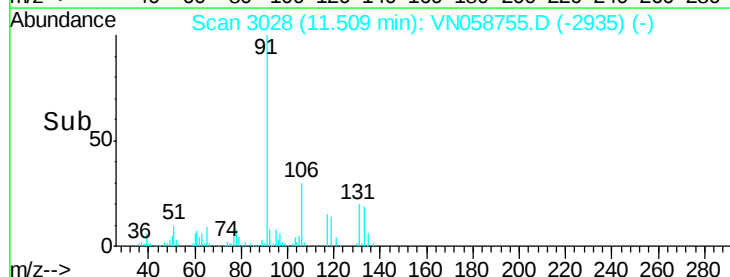
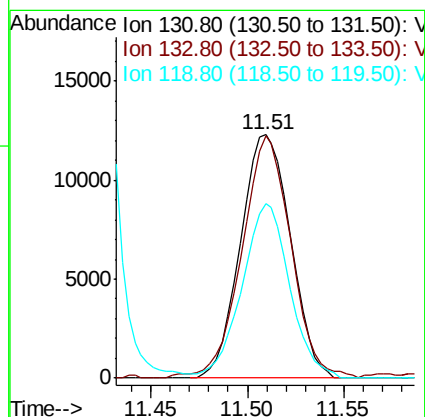
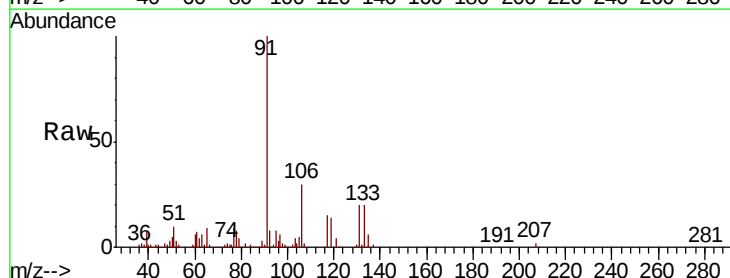
Tgt Ion:131 Resp: 22078

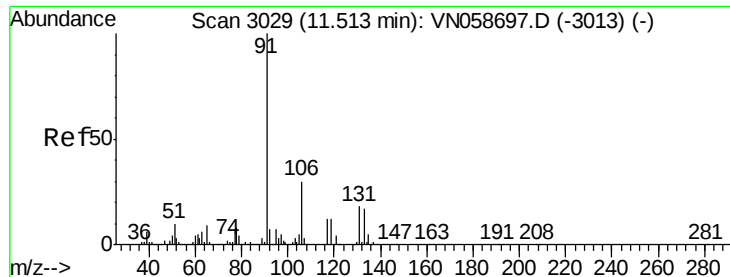
Ion Ratio Lower Upper

131 100

133 97.9 47.6 142.9

119 68.5 33.0 98.9





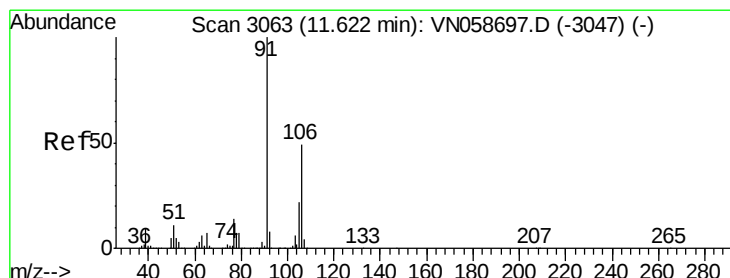
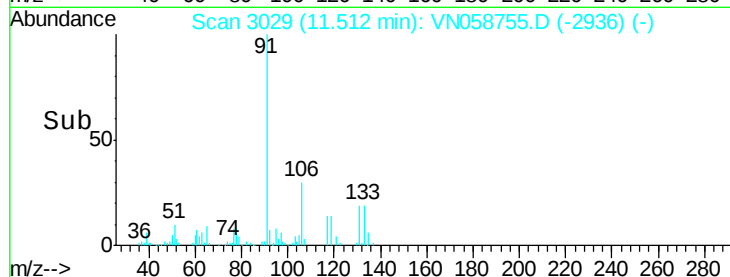
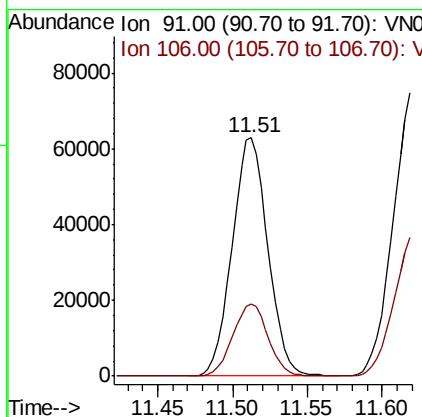
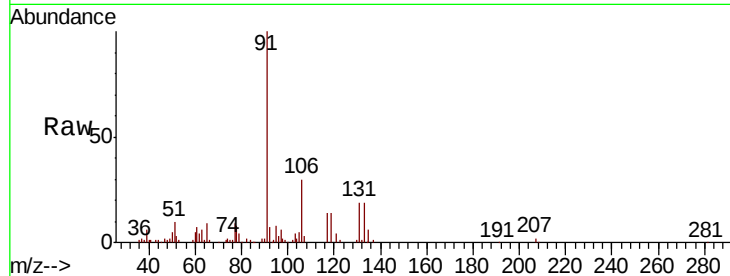
#67
Ethyl Benzene
Concen: 5.162 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. -0.00 min
Lab File: VN058755.D
Acq: 14 Oct 2019 17:39

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

Tot Ion: 91 Resp: 104372
Ion Ratio Lower Upper
91 100
106 30.4 24.1 36.1

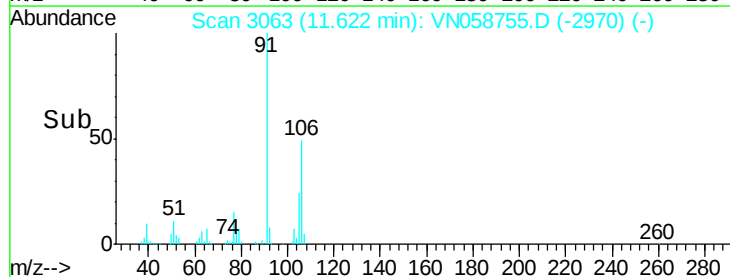
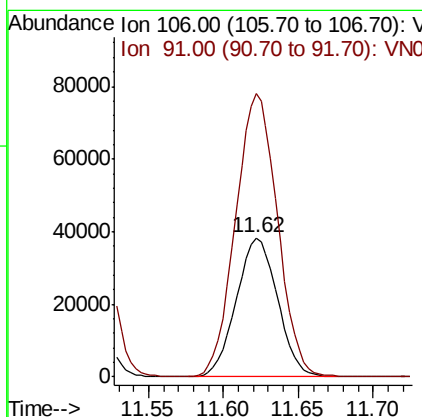
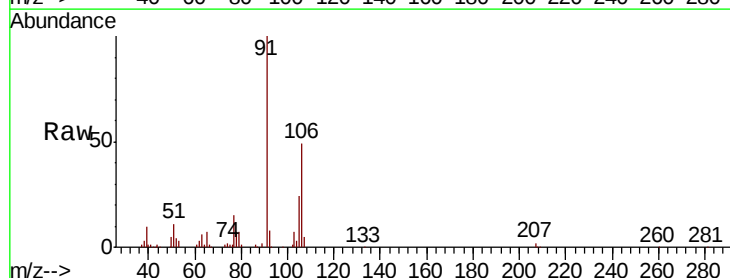
Manual Integrations
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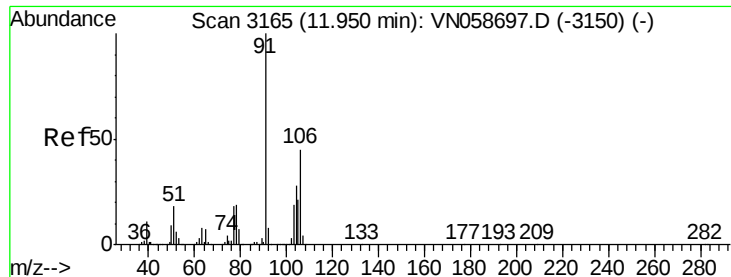
MMDadoda
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#68
m/p-Xylenes
Concen: 9.674 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. -0.00 min
Lab File: VN058755.D
Acq: 14 Oct 2019 17:39

Tgt Ion: 106 Resp: 73405
Ion Ratio Lower Upper
106 100
91 207.3 165.7 248.5





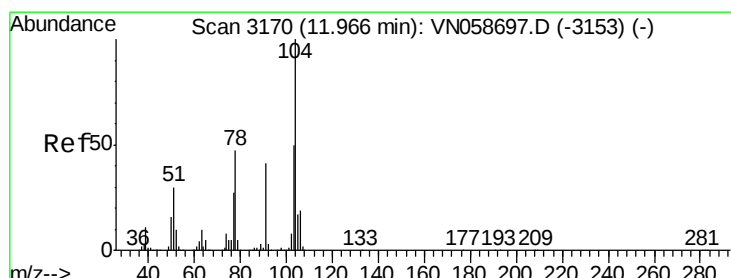
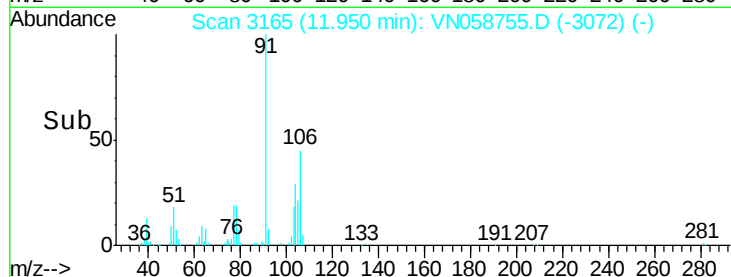
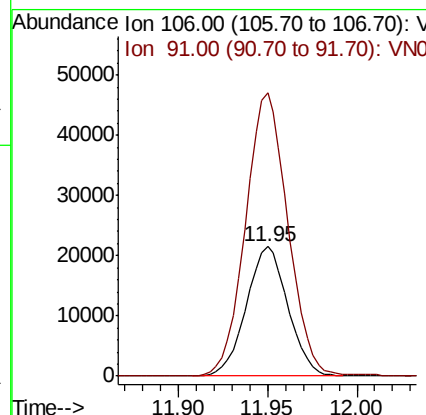
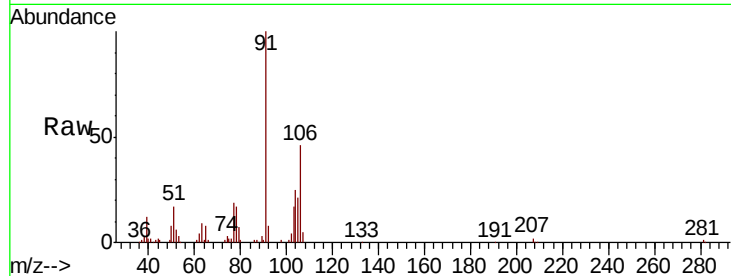
#69
o-Xylene
Concen: 4.775 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. -0.00 min
Lab File: VN058755.D
Acq: 14 Oct 2019 17:39

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

Tot Ion	Ratio	Lower	Upper
106	100		
91	222.1	110.9	332.9

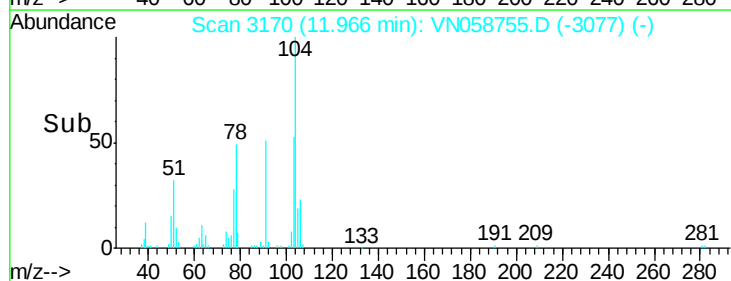
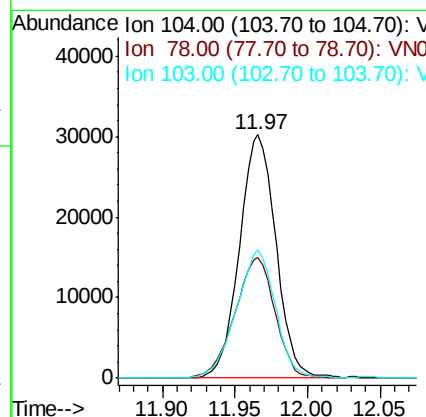
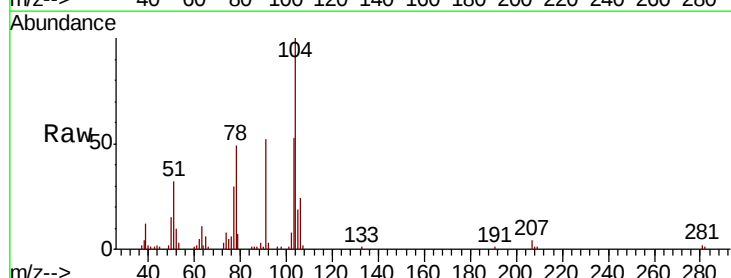
Manual Integrations
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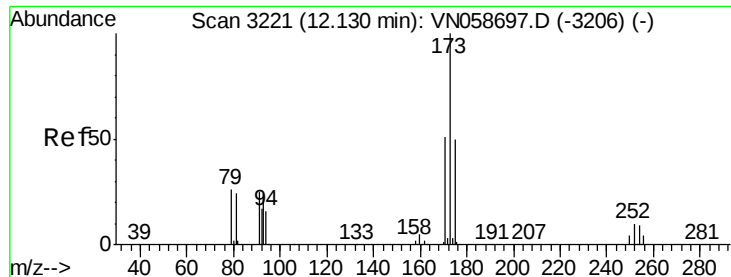
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#70
Styrene
Concen: 4.410 ug/l
RT: 11.97 min Scan# 3170
Delta R.T. -0.00 min
Lab File: VN058755.D
Acq: 14 Oct 2019 17:39

Tgt Ion	Ratio	Lower	Upper
104	100		
78	54.4	42.2	63.2
103	56.3	43.7	65.5





#71

Bromoform

Concen: 5.093 ug/l

RT: 12.13 min Scan# 3221

Delta R.T. -0.00 min

Lab File: VN058755.D

Acq: 14 Oct 2019 17:39

Instrument :

MSVOA_N

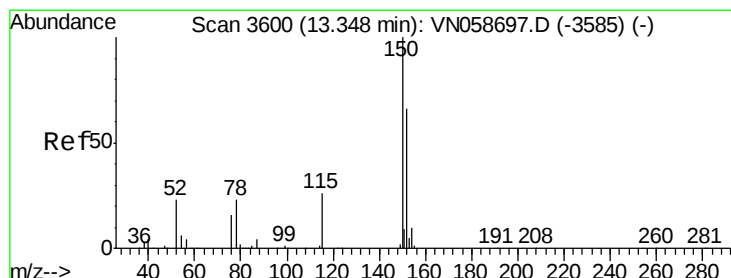
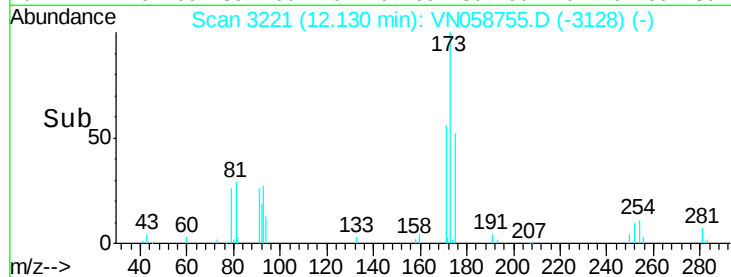
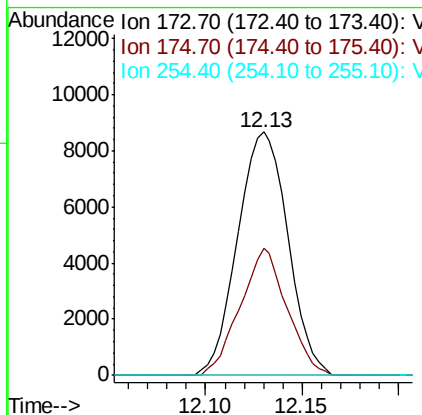
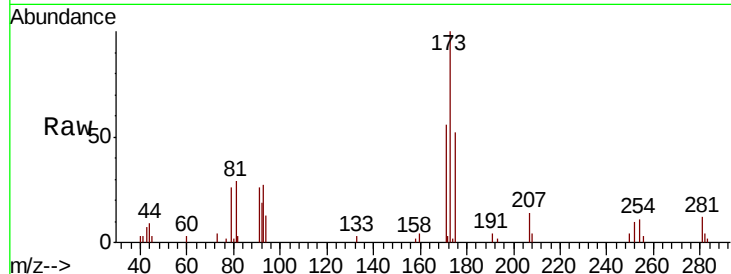
ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion:	173	Resp:	15657
Ion Ratio	Lower	Upper	
173	100		
175	48.5	24.6	73.8
254	0.0	0.1	0.1#

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#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

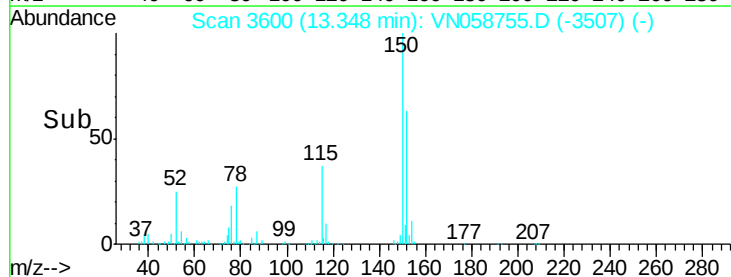
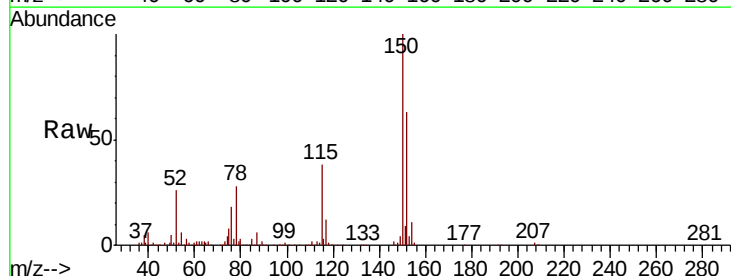
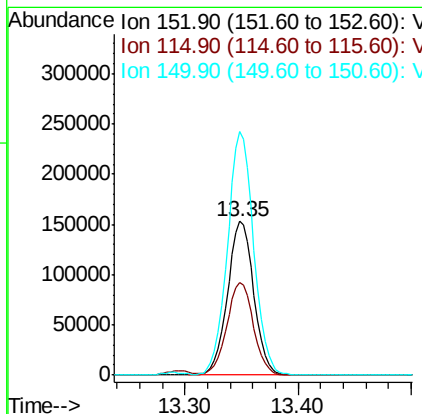
RT: 13.35 min Scan# 3600

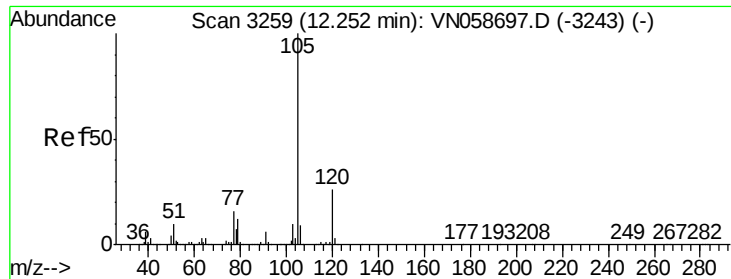
Delta R.T. -0.00 min

Lab File: VN058755.D

Acq: 14 Oct 2019 17:39

Tgt Ion:	152	Resp:	246494
Ion Ratio	Lower	Upper	
152	100		
115	60.6	30.4	91.2
150	158.6	0.0	345.4





#73

Isopropylbenzene

Concen: 5.188 ug/l

RT: 12.25 min Scan# 3259

Delta R.T. -0.00 min

Lab File: VN058755.D

Acq: 14 Oct 2019 17:39

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion: 105 Resp: 92617

Ion Ratio Lower Upper

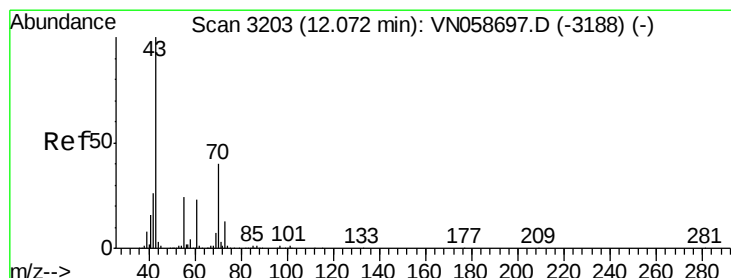
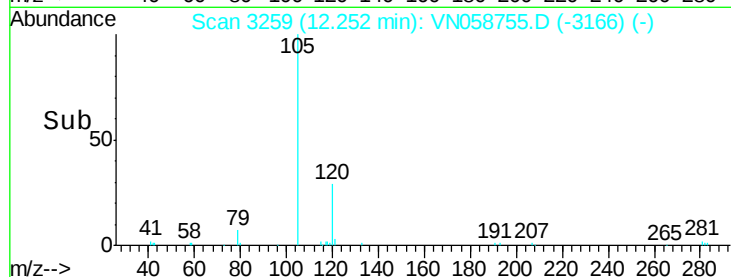
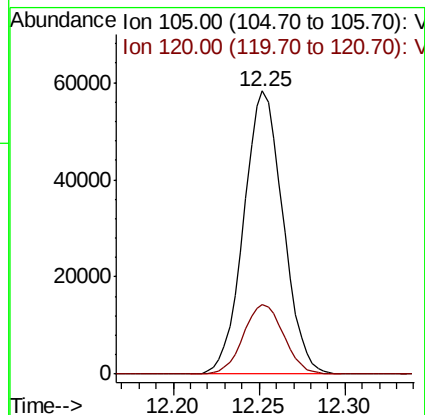
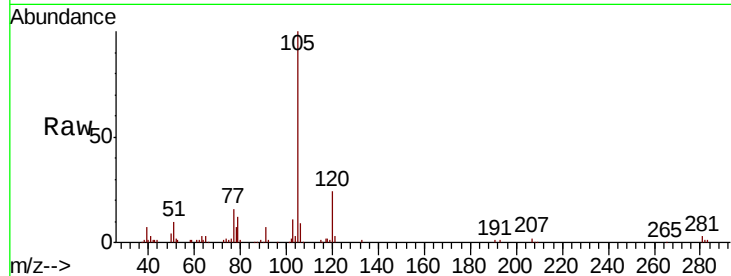
105 100

120 25.2 13.1 39.1

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#74

N-ethyl acetate

Concen: 4.771 ug/l

RT: 12.07 min Scan# 3203

Delta R.T. 0.00 min

Lab File: VN058755.D

Acq: 14 Oct 2019 17:39

Tgt Ion: 43 Resp: 38254

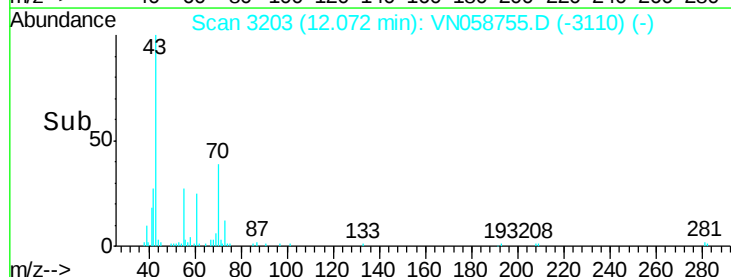
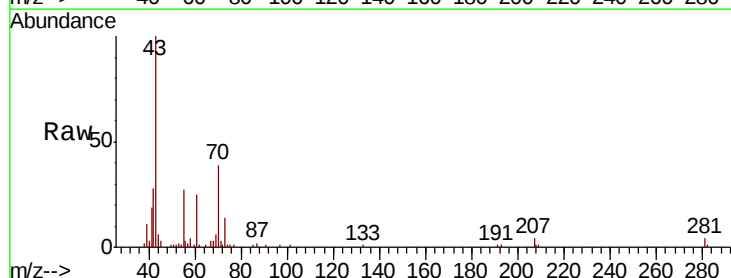
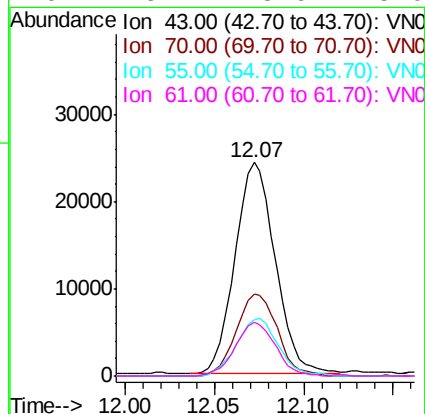
Ion Ratio Lower Upper

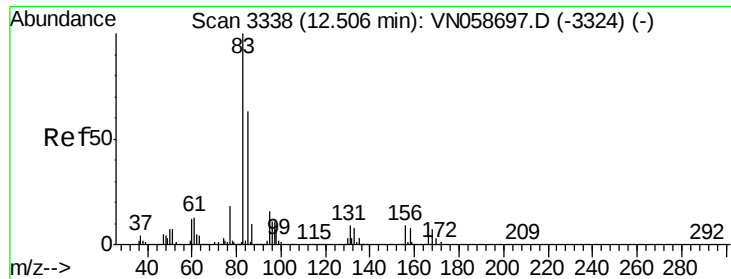
43 100

70 39.4 32.2 48.4

55 28.3 19.6 29.4

61 25.2 18.6 28.0





#75

1,1,2,2-Tetrachloroethane

Concen: 5.782 ug/l

RT: 12.51 min Scan# 3338

Delta R.T. 0.00 min

Lab File: VN058755.D

Acq: 14 Oct 2019 17:39

Instrument :

MSVOA_N

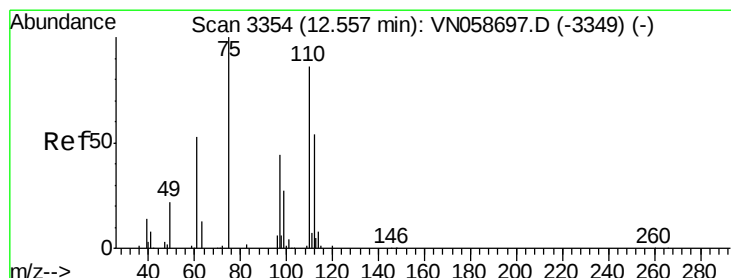
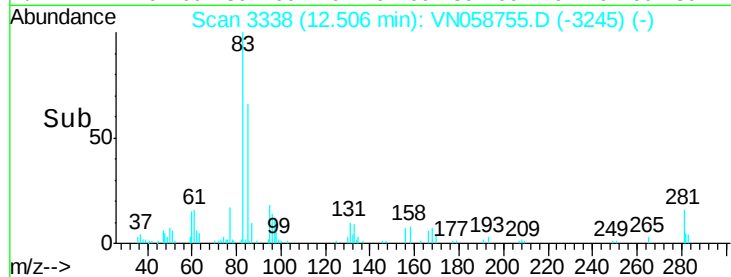
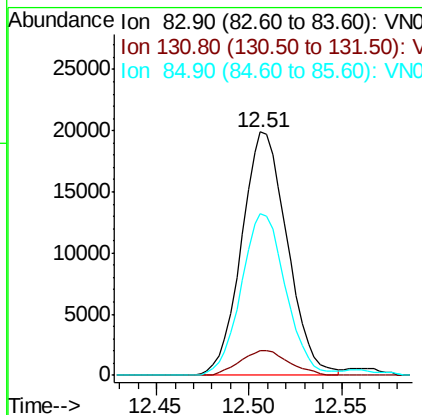
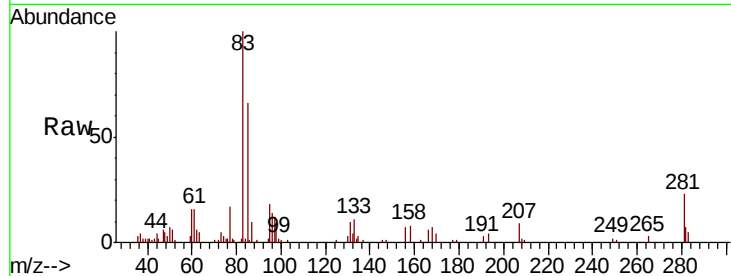
ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion:	83	Resp:	34004
Ion Ratio	Lower	Upper	
83	100		
131	10.7	4.8	14.4
85	64.5	31.9	95.5

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 5.747 ug/l m

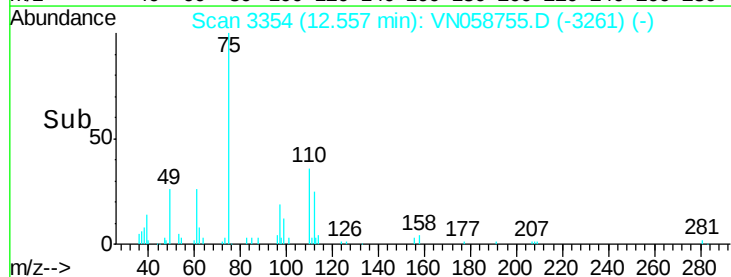
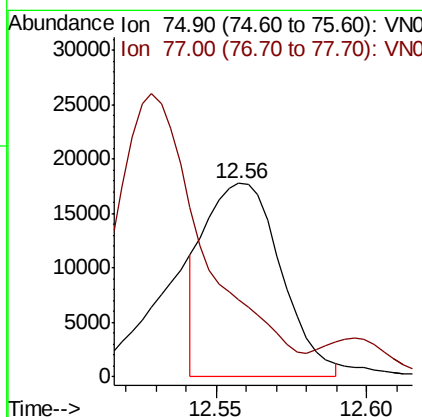
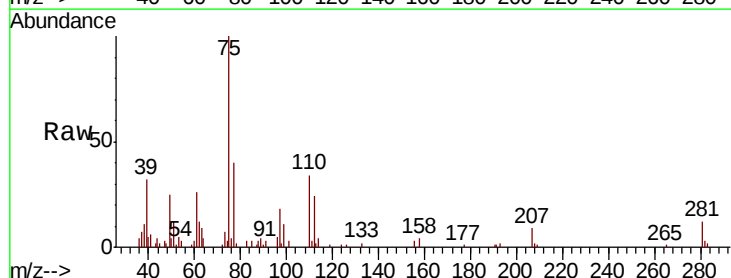
RT: 12.56 min Scan# 3354

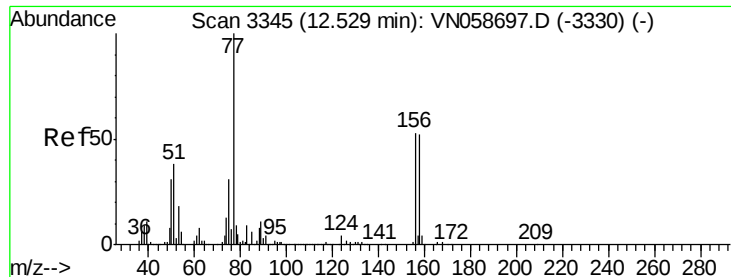
Delta R.T. -0.00 min

Lab File: VN058755.D

Acq: 14 Oct 2019 17:39

Tgt Ion:	75	Resp:	31076
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 5.293 ug/l

RT: 12.53 min Scan# 3345

Delta R.T. -0.00 min

Lab File: VN058755.D

Acq: 14 Oct 2019 17:39

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion:156 Resp: 22984

Ion Ratio Lower Upper

156 100

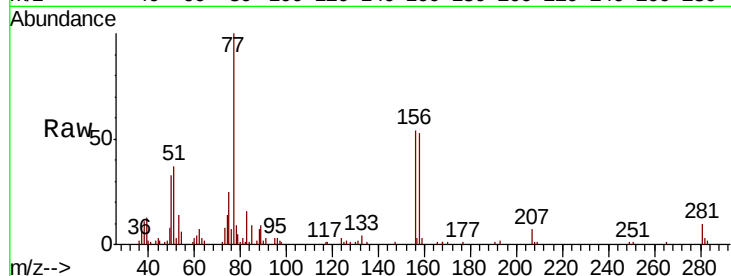
77 237.2 115.8 347.3

158 100.4 48.9 146.6

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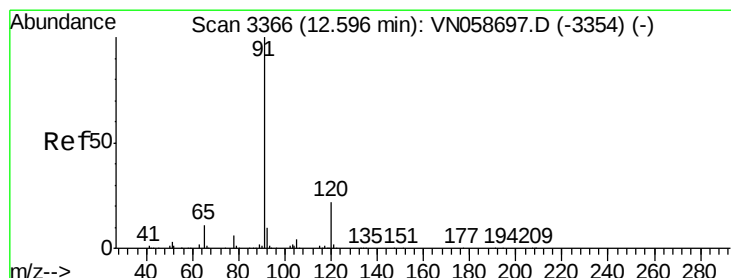
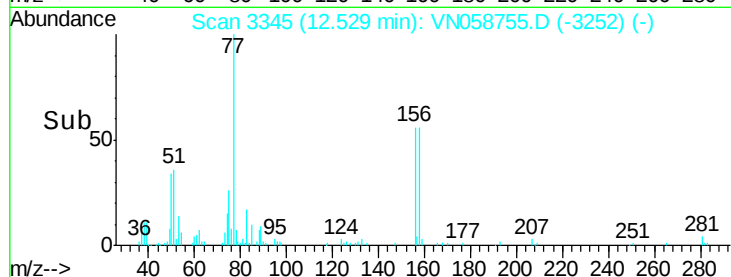
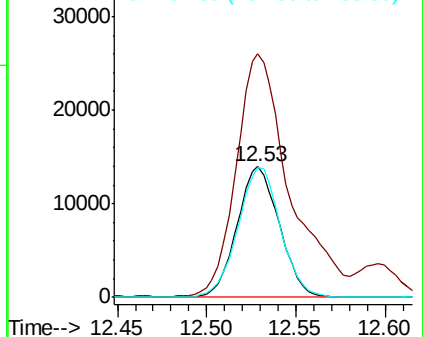
10/16/2019 12:57:12 AM



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: 5.297 ug/l

RT: 12.60 min Scan# 3366

Delta R.T. -0.00 min

Lab File: VN058755.D

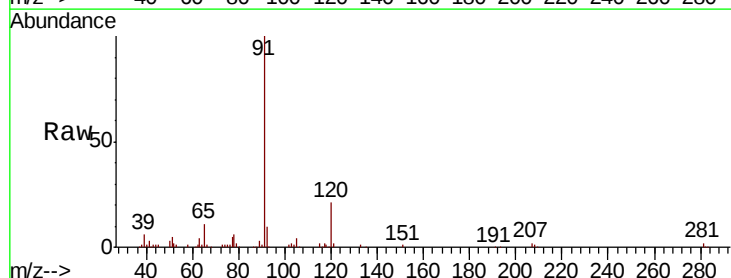
Acq: 14 Oct 2019 17:39

Tgt Ion: 91 Resp: 110192

Ion Ratio Lower Upper

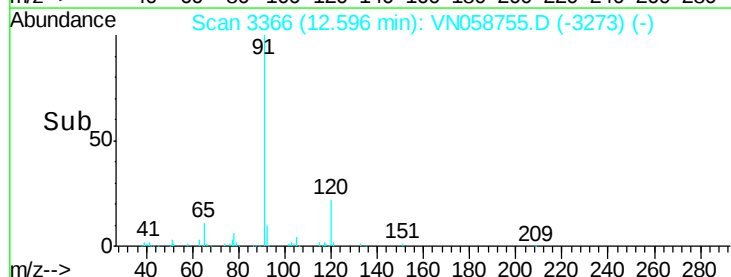
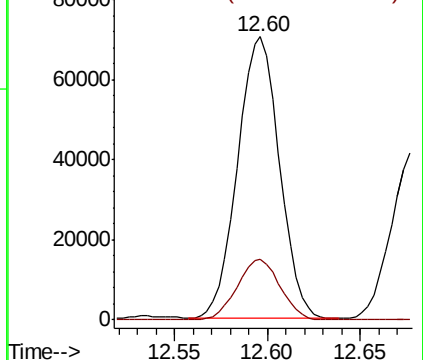
91 100

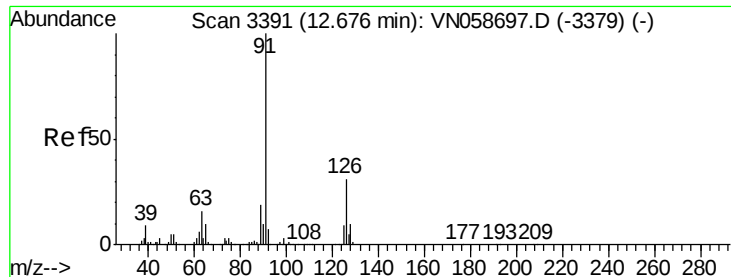
120 22.0 11.1 33.3



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





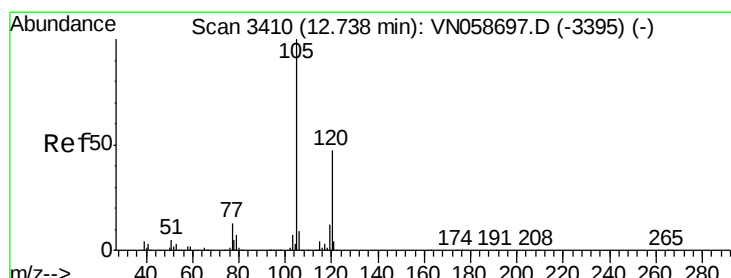
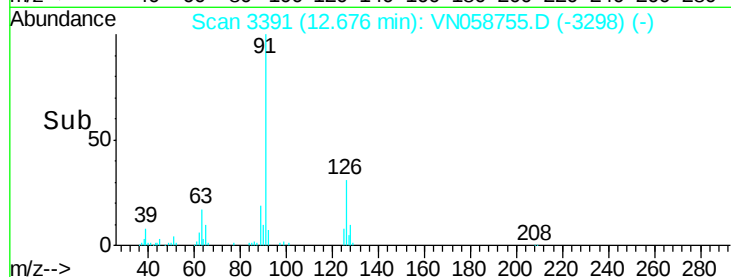
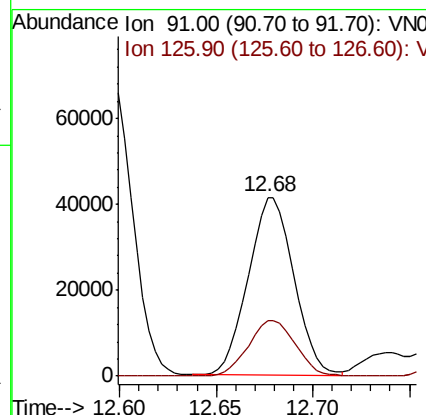
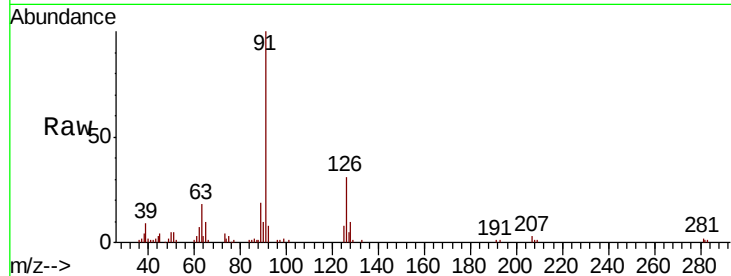
#79
2-Chlorotoluene
Concen: 5.275 ug/l
RT: 12.68 min Scan# 3391
Delta R.T. -0.00 min
Lab File: VN058755.D
Acq: 14 Oct 2019 17:39

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

Tot Ion: 91 Resp: 68110
Ion Ratio Lower Upper
91 100
126 32.1 16.2 48.5

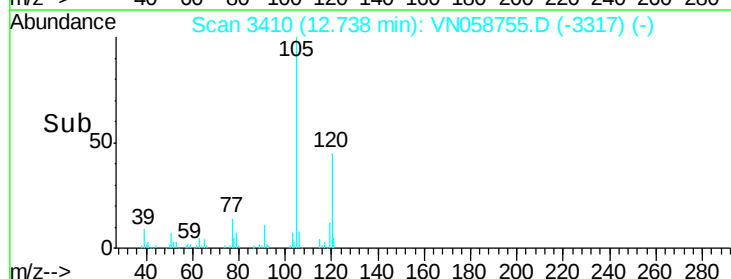
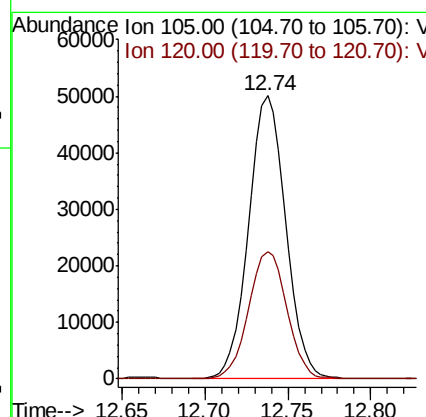
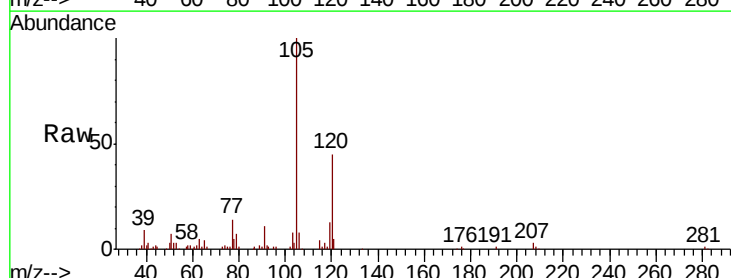
Manual Integrations
APPROVED

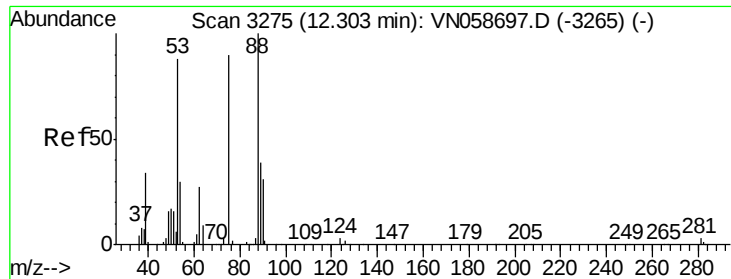
MMDadoda
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#80
1,3,5-Trimethylbenzene
Concen: 5.144 ug/l
RT: 12.74 min Scan# 3410
Delta R.T. -0.00 min
Lab File: VN058755.D
Acq: 14 Oct 2019 17:39

Tgt Ion: 105 Resp: 78405
Ion Ratio Lower Upper
105 100
120 46.3 23.4 70.2





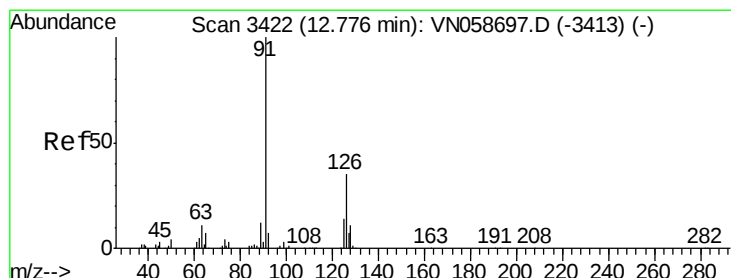
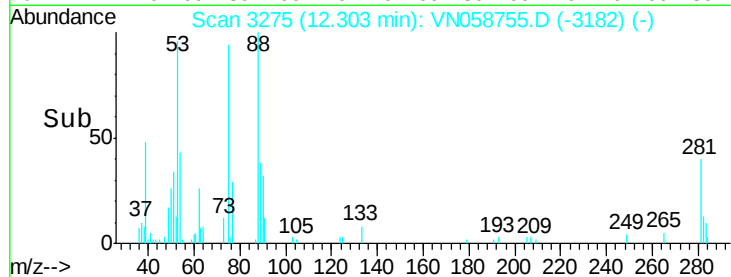
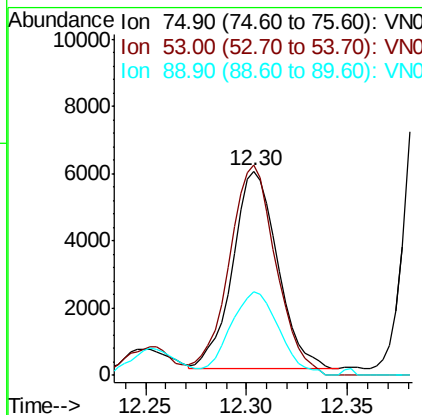
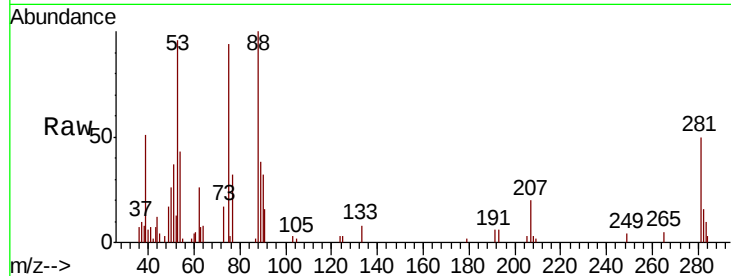
#81
trans-1,4-Dichloro-2-butene
Concen: 4.513 ug/l
RT: 12.30 min Scan# 3275
Delta R.T. -0.00 min
Lab File: VN058755.D
Acq: 14 Oct 2019 17:39

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

Tot Ion	Ratio	Lower	Upper
75	100		
53	112.4	78.4	117.6
89	46.3	34.9	52.3

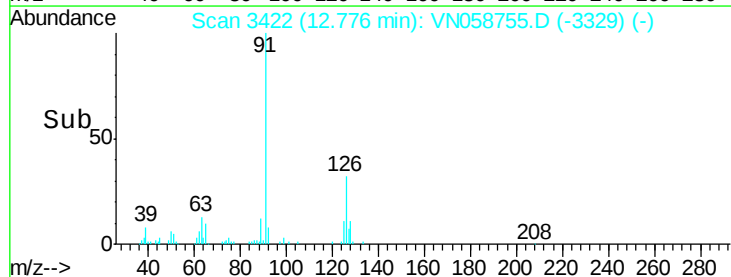
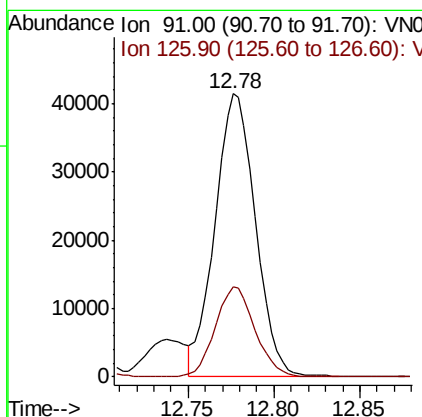
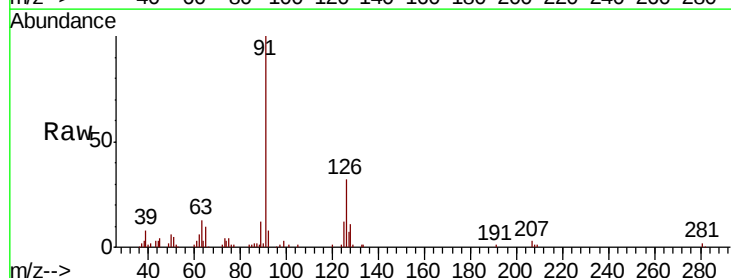
Manual Integrations
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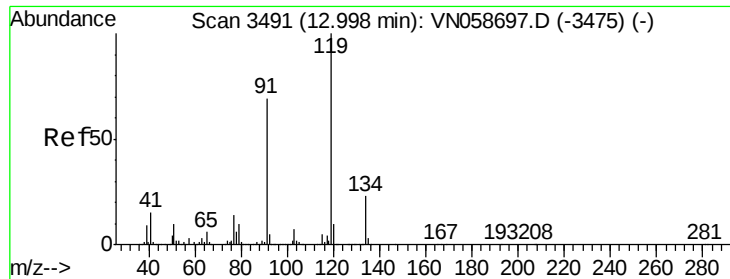
MMDadoda
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#82
4-Chlorotoluene
Concen: 5.150 ug/l
RT: 12.78 min Scan# 3422
Delta R.T. -0.00 min
Lab File: VN058755.D
Acq: 14 Oct 2019 17:39

Tgt Ion	Ratio	Lower	Upper
91	100		
126	31.1	15.9	47.6





#83

tert-Butylbenzene

Concen: 5.038 ug/l

RT: 13.00 min Scan# 3491

Delta R.T. -0.00 min

Lab File: VN058755.D

Acq: 14 Oct 2019 17:39

Instrument :

MSVOA_N

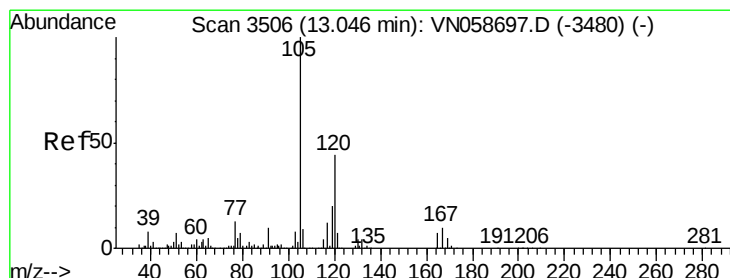
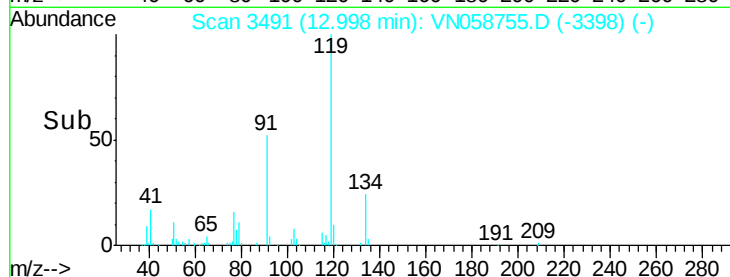
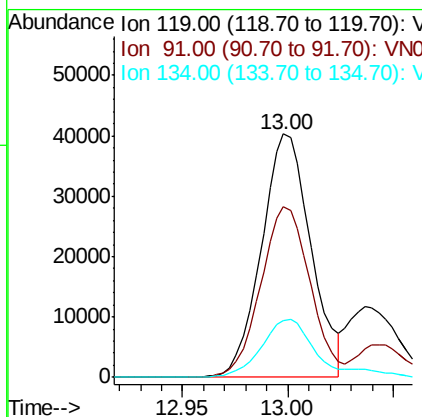
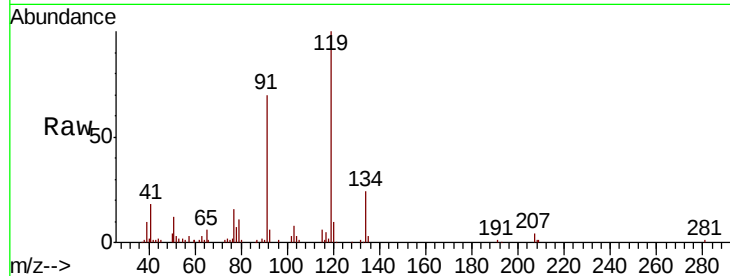
ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
119	100		
91	69.9	33.8	101.3
134	27.1	12.6	37.6

Manual Integrations
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#84

1,2,4-Trimethylbenzene

Concen: 5.136 ug/l

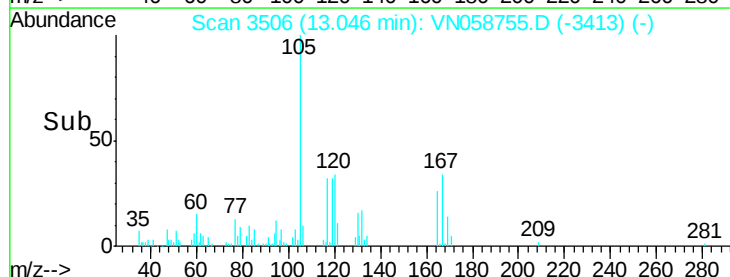
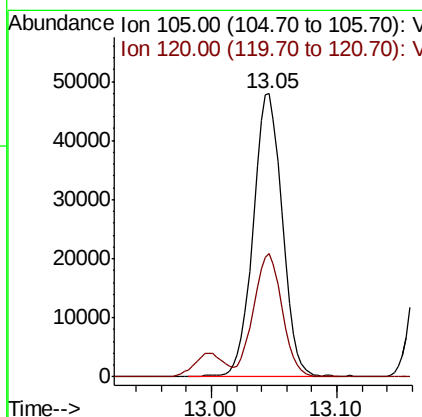
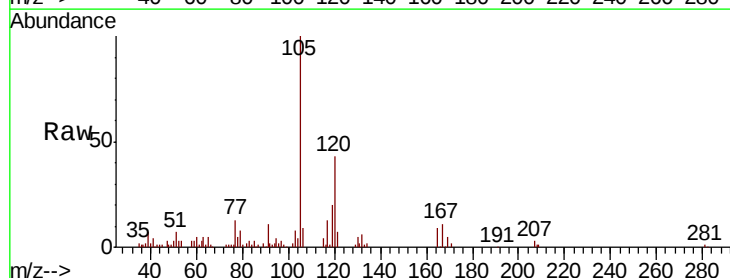
RT: 13.05 min Scan# 3506

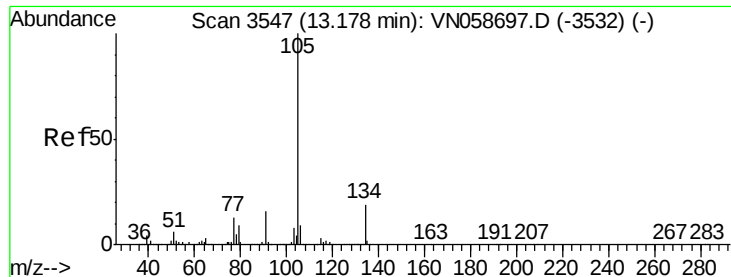
Delta R.T. -0.00 min

Lab File: VN058755.D

Acq: 14 Oct 2019 17:39

Tgt Ion	Ratio	Lower	Upper
105	100		
120	42.9	21.9	65.7





#85

sec-Butylbenzene

Concen: 5.223 ug/l

RT: 13.18 min Scan# 3547

Delta R.T. -0.00 min

Lab File: VN058755.D

Acq: 14 Oct 2019 17:39

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion:105 Resp: 89853

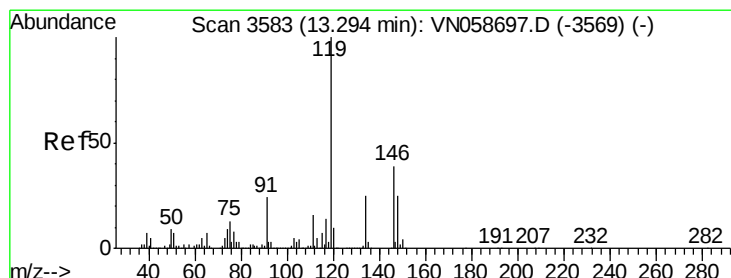
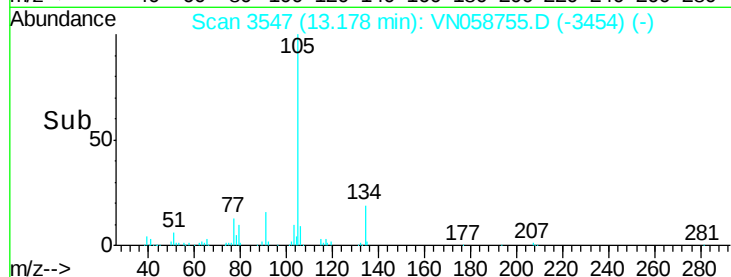
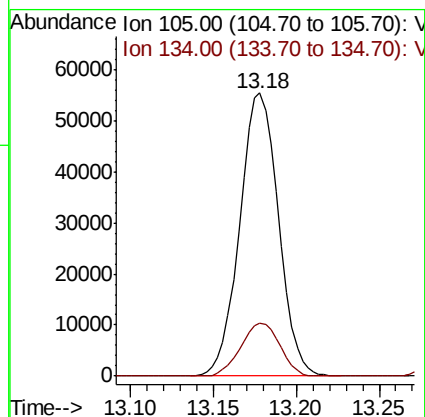
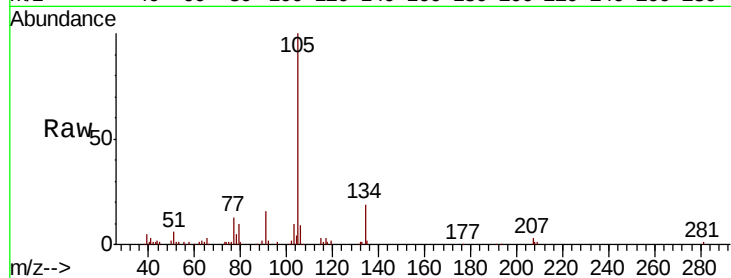
Ion Ratio Lower Upper

105 100

134 18.8 9.7 29.1

Manual Integrations
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#86

p-Isopropyltoluene

Concen: 4.896 ug/l

RT: 13.30 min Scan# 3584

Delta R.T. 0.00 min

Lab File: VN058755.D

Acq: 14 Oct 2019 17:39

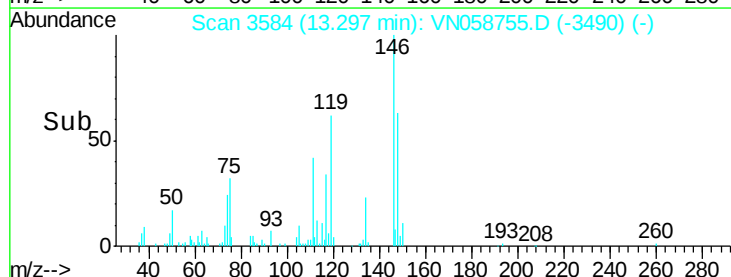
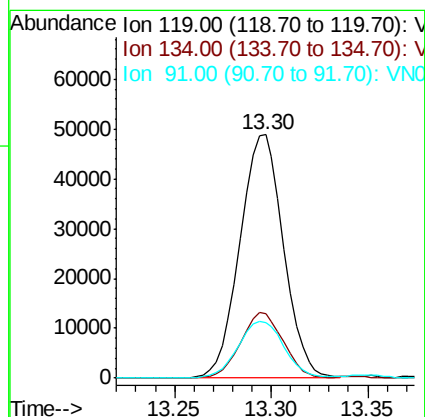
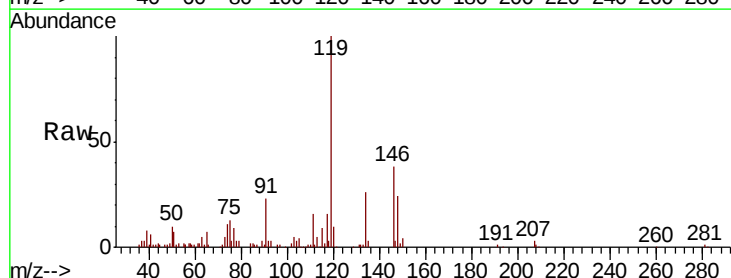
Tgt Ion:119 Resp: 76561

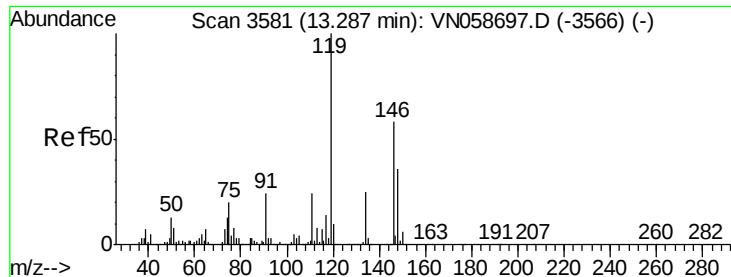
Ion Ratio Lower Upper

119 100

134 26.2 12.7 38.1

91 24.8 11.9 35.5





#87

1,3-Dichlorobenzene

Concen: 5.078 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. -0.00 min

Lab File: VN058755.D

Acq: 14 Oct 2019 17:39

Instrument :

MSVOA_N

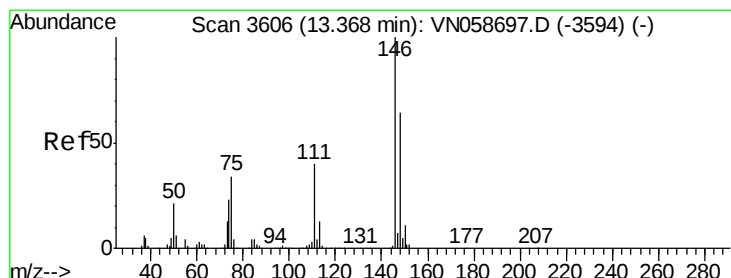
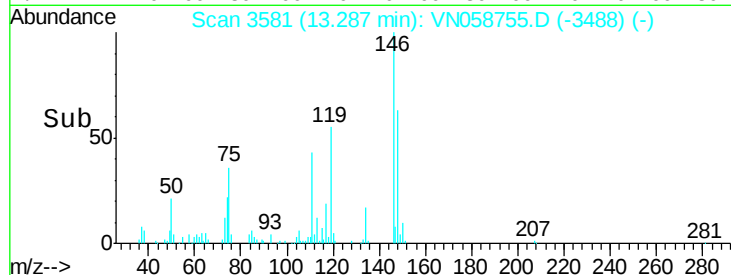
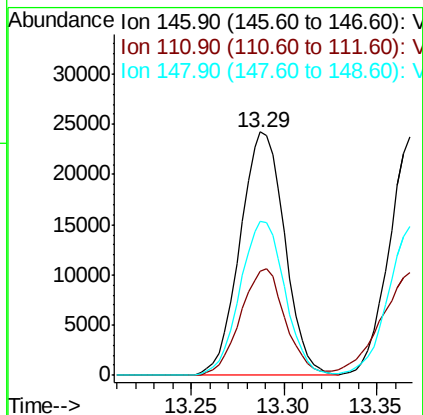
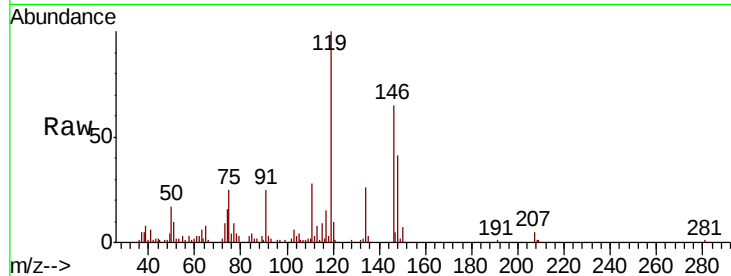
ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion:	146	Resp:	40667
Ion Ratio	Lower	Upper	
146	100		
111	43.8	20.5	61.6
148	63.7	31.3	93.9

Manual Integrations
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#88

1,4-Dichlorobenzene

Concen: 4.981 ug/l

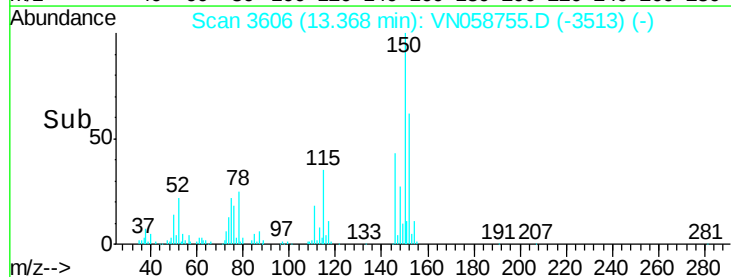
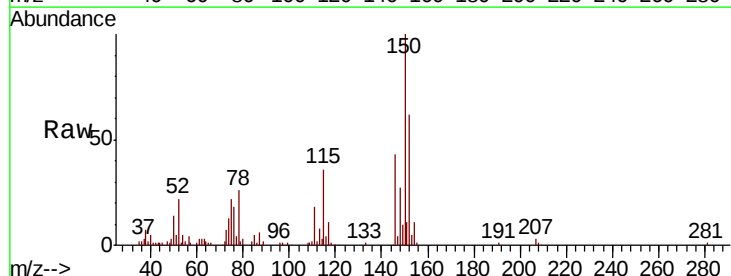
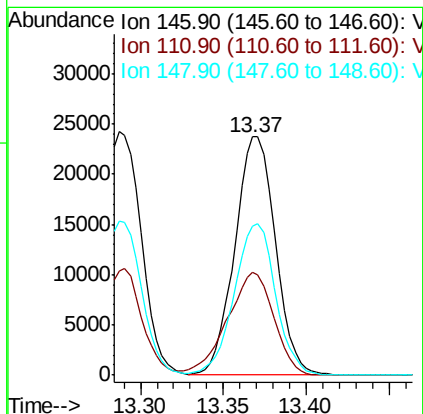
RT: 13.37 min Scan# 3606

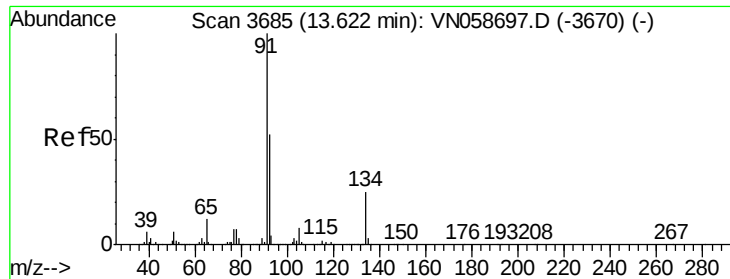
Delta R.T. -0.00 min

Lab File: VN058755.D

Acq: 14 Oct 2019 17:39

Tgt Ion:	146	Resp:	40551
Ion Ratio	Lower	Upper	
146	100		
111	49.3	20.1	60.2
148	64.5	31.9	95.7





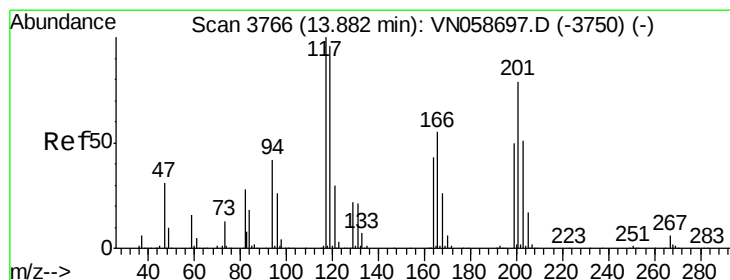
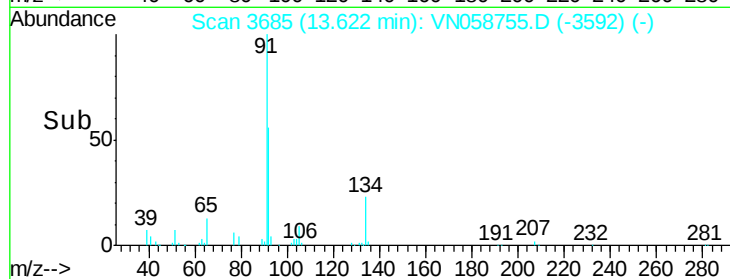
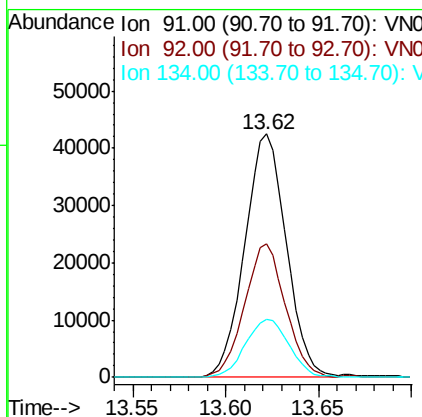
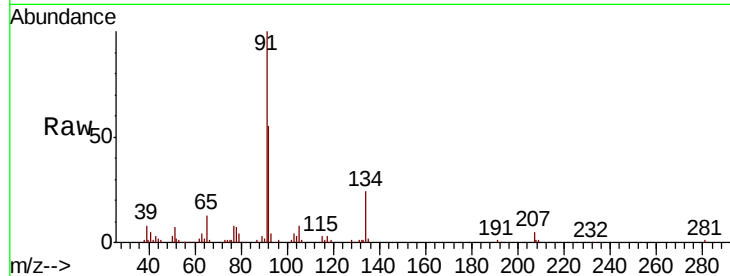
#89
n-Butylbenzene
Concen: 4.575 ug/l
RT: 13.62 min Scan# 3685
Delta R.T. -0.00 min
Lab File: VN058755.D
Acq: 14 Oct 2019 17:39

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

Tot Ion	Ratio	Lower	Upper
91	100		
92	53.8	26.0	78.0
134	25.0	12.2	36.6

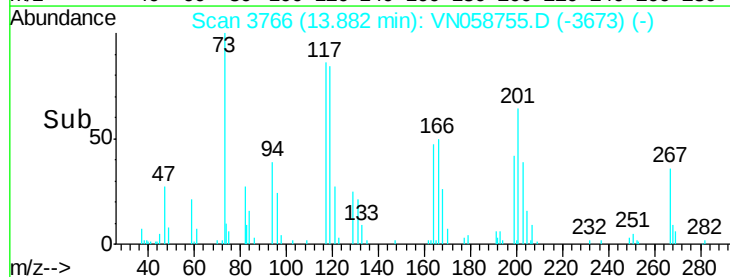
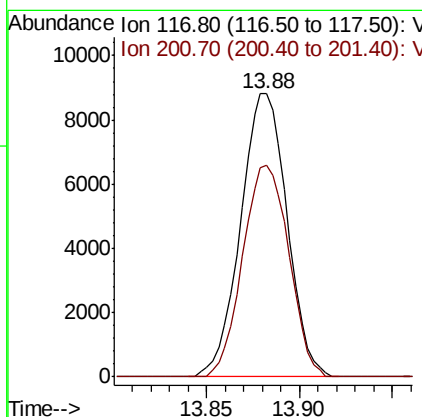
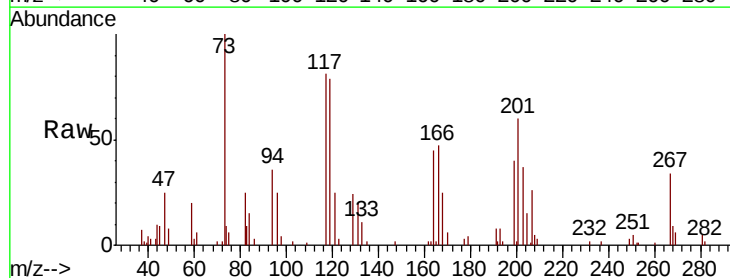
Manual Integrations
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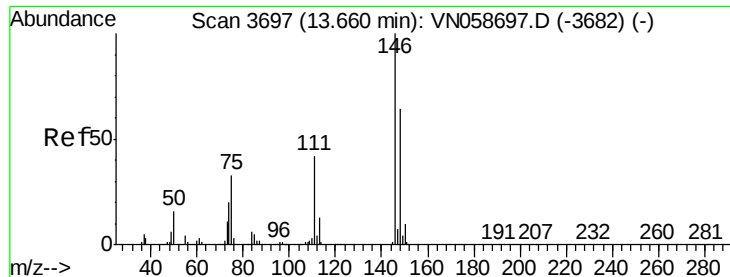
MMDadoda
10/16/2019 12:57:12 AM



#90
Hexachloroethane
Concen: 5.504 ug/l
RT: 13.88 min Scan# 3766
Delta R.T. 0.00 min
Lab File: VN058755.D
Acq: 14 Oct 2019 17:39

Tgt Ion	Ratio	Lower	Upper
117	100		
201	74.3	39.6	118.7





#91

1,2-Dichlorobenzene

Concen: 5.224 ug/l

RT: 13.66 min Scan# 3697

Delta R.T. -0.00 min

Lab File: VN058755.D

Acq: 14 Oct 2019 17:39

Instrument :

MSVOA_N

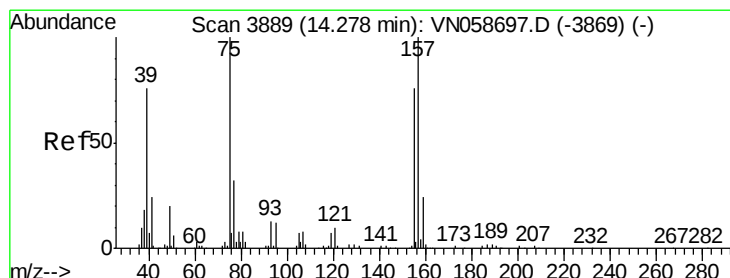
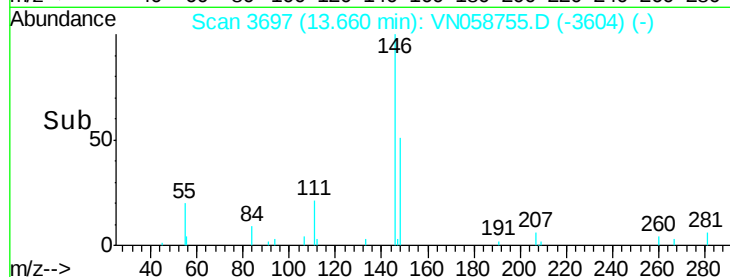
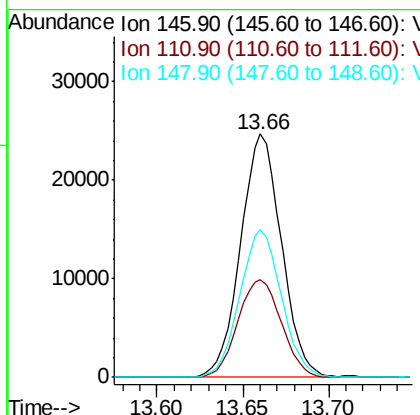
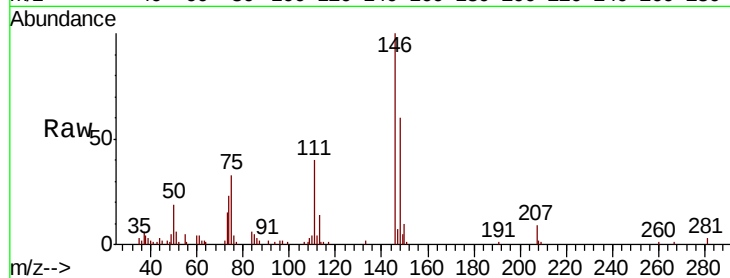
ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion:	146	Resp:	40769
Ion Ratio	Lower	Upper	
146	100		
111	42.6	21.1	63.4
148	61.8	31.8	95.3

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#92

1,2-Dibromo-3-Chloropropane

Concen: 5.609 ug/l

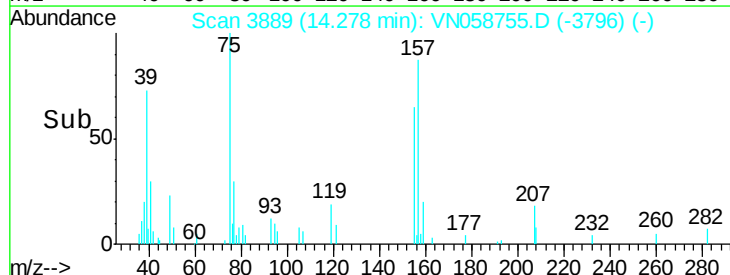
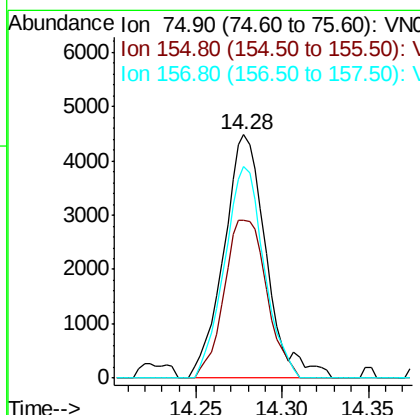
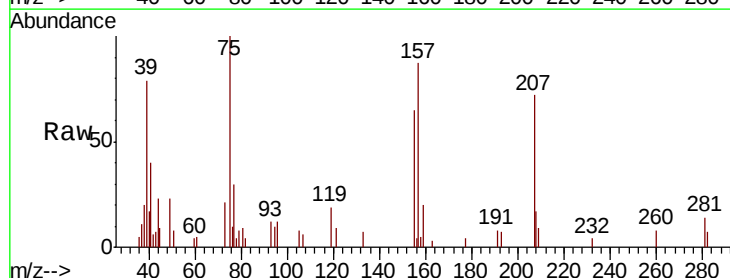
RT: 14.28 min Scan# 3889

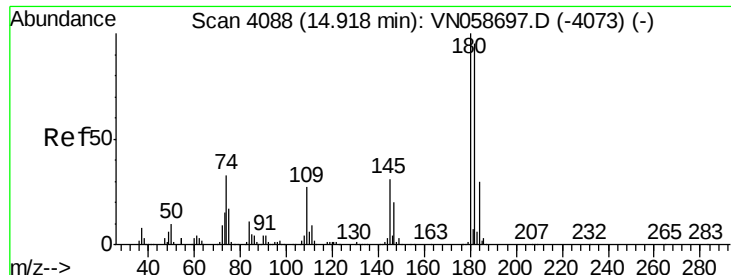
Delta R.T. 0.00 min

Lab File: VN058755.D

Acq: 14 Oct 2019 17:39

Tgt Ion:	75	Resp:	7706
Ion Ratio	Lower	Upper	
75	100		
155	65.1	37.9	113.6
157	81.1	49.4	148.2





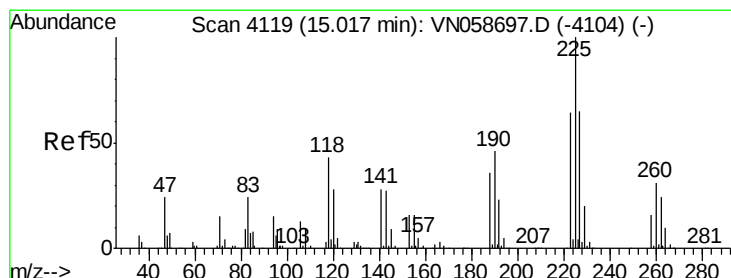
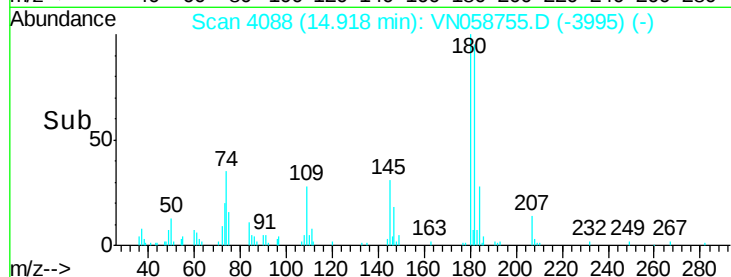
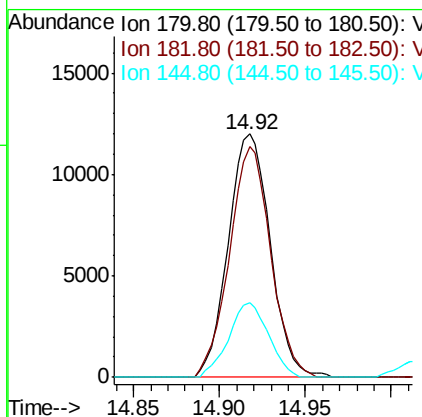
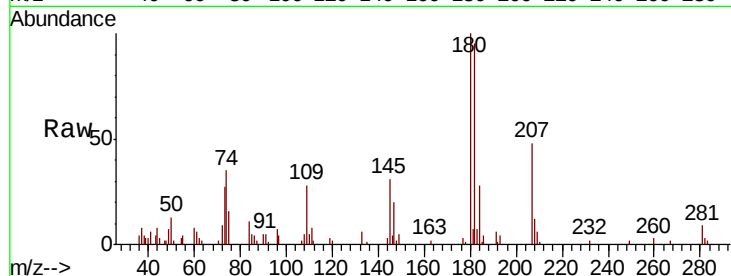
#93
1,2,4-Trichlorobenzene
Concen: 4.295 ug/l
RT: 14.92 min Scan# 4088
Delta R.T. -0.00 min
Lab File: VN058755.D
Acq: 14 Oct 2019 17:39

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

Tot Ion	Ratio	Lower	Upper
180	100		
182	92.9	47.4	142.2
145	29.1	15.4	46.2

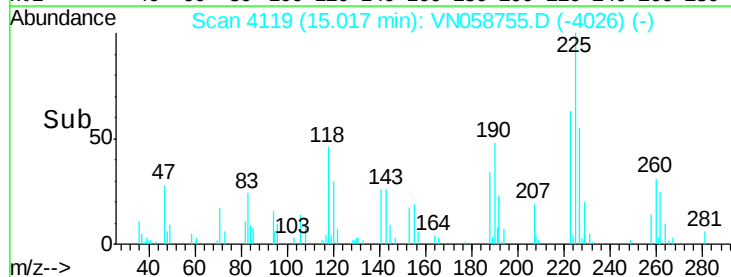
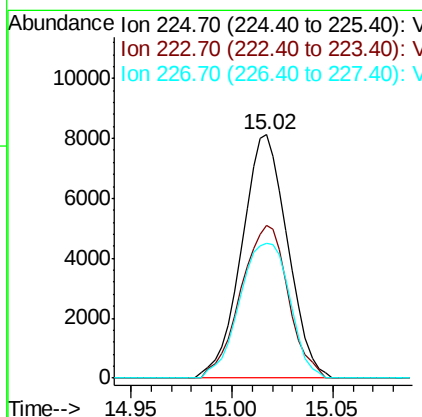
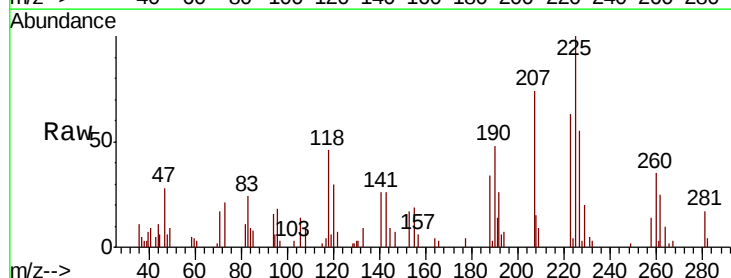
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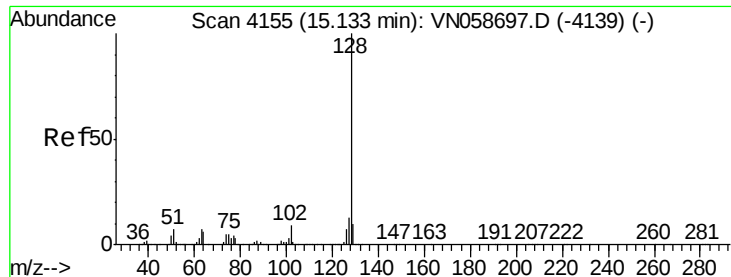
MMDadoda
10/16/2019 12:57:12 AM



#94
Hexachlorobutadiene
Concen: 5.161 ug/l
RT: 15.02 min Scan# 4119
Delta R.T. -0.00 min
Lab File: VN058755.D
Acq: 14 Oct 2019 17:39

Tgt Ion	Ratio	Lower	Upper
225	100		
223	64.5	32.3	96.8
227	60.6	32.4	97.0





#95

Naphthalene

Concen: 3.905 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN058755.D

Acq: 14 Oct 2019 17:39

Instrument :

MSVOA_N

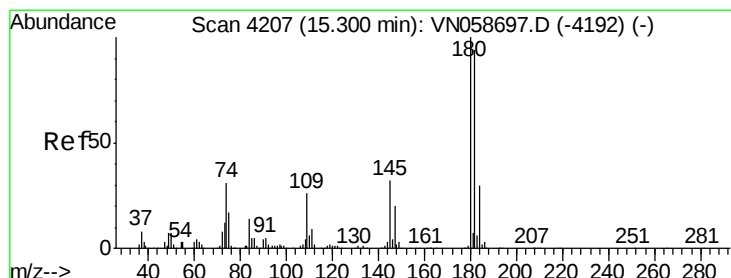
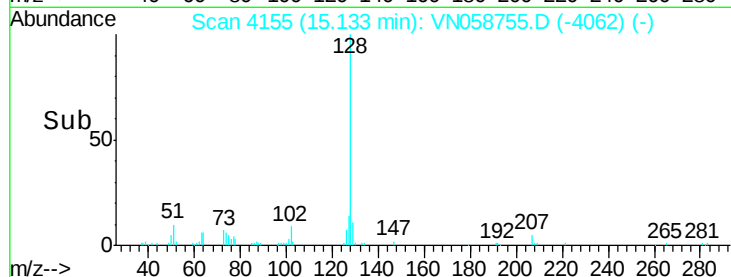
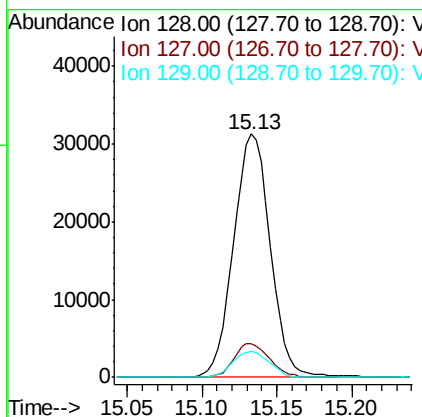
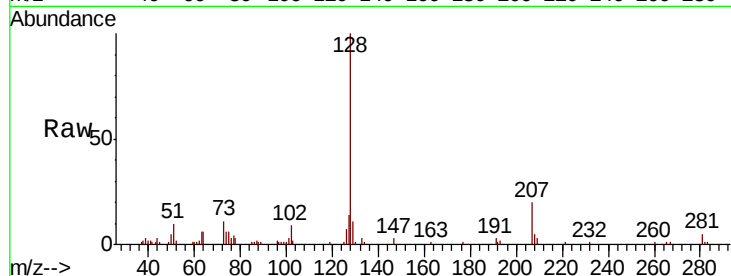
ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion:	128	Resp:	53438
Ion Ratio	Lower	Upper	
128	100		
127	13.4	10.2	15.4
129	10.7	8.5	12.7

Manual Integrations
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#96

1,2,3-Trichlorobenzene

Concen: 4.328 ug/l

RT: 15.30 min Scan# 4208

Delta R.T. 0.00 min

Lab File: VN058755.D

Acq: 14 Oct 2019 17:39

Tgt Ion:	180	Resp:	20119
Ion Ratio	Lower	Upper	
180	100		
182	92.1	47.3	142.0
145	32.3	16.2	48.6

