

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072619\
 Data File : VN056933.D
 Acq On : 25 Jul 2019 20:51
 Operator : JC/SP
 Sample : K3591-08 5.0PPB LOQ
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT3-2019

Manual Integrations
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 7/26/2019 3:37:50 PM

Quant Time: Jul 26 05:22:15 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072619W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 26 05:13:44 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	455320	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	694673	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	590166	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	195126	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	238623	50.65	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	101.30%	
35) Dibromofluoromethane	7.58	113	212780	48.01	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	96.02%	
50) Toluene-d8	10.08	98	801800	47.64	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	95.28%	
62) 4-Bromofluorobenzene	12.40	95	227063	41.32	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	82.64%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.84	85	18933	3.857	ug/l	96
3) Chloromethane	2.05	50	26039	4.437	ug/l	98
4) Vinyl Chloride	2.17	62	24915	4.509	ug/l	96
5) Bromomethane	2.54	94	18156	5.432	ug/l	98
6) Chloroethane	2.68	64	14616	4.765	ug/l	100
7) Trichlorofluoromethane	3.00	101	33526	4.655	ug/l	99
8) Diethyl Ether	3.39	74	13147	4.875	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.73	101	21511	4.861	ug/l	99
10) Methyl Iodide	3.93	142	24257	3.731	ug/l	99
11) Tert butyl alcohol	4.77	59	21539	31.690	ug/l #	87
12) 1,1-Dichloroethene	3.72	96	20749	4.856	ug/l	96
13) Acrolein	3.59	56	10332	27.125	ug/l	98
14) Allyl chloride	4.30	41	31560	4.552	ug/l	96
15) Acrylonitrile	4.97	53	46721	23.886	ug/l	98
16) Acetone	3.80	43	36210	22.505	ug/l	96
17) Carbon Disulfide	4.03	76	49703	4.319	ug/l	99
18) Methyl Acetate	4.31	43	26635	4.728	ug/l	99
19) Methyl tert-butyl Ether	5.02	73	58968	4.693	ug/l	99
20) Methylene Chloride	4.53	84	24723	4.852	ug/l	95
21) trans-1,2-Dichloroethene	5.01	96	21727m	4.752	ug/l	
22) Diisopropyl ether	5.93	45	67912	4.810	ug/l	91
23) Vinyl Acetate	5.88	43	225279	23.163	ug/l	100
24) 1,1-Dichloroethane	5.82	63	40415	4.872	ug/l	96
25) 2-Butanone	6.82	43	56797	22.933	ug/l	97
26) 2,2-Dichloropropane	6.81	77	26089	4.286	ug/l	100
27) cis-1,2-Dichloroethene	6.82	96	25255	4.840	ug/l	99
28) Bromochloromethane	7.18	49	17799	4.650	ug/l	96
29) Tetrahydrofuran	7.20	42	39395	24.275	ug/l	99
30) Chloroform	7.36	83	40464	4.737	ug/l	93
31) Cyclohexane	7.64	56	43054	5.334	ug/l #	80
32) 1,1,1-Trichloroethane	7.56	97	32225	4.710	ug/l	99
36) 1,1-Dichloropropene	7.78	75	30080	4.736	ug/l	96
37) Ethyl Acetate	6.92	43	21892	4.254	ug/l	96
38) Carbon Tetrachloride	7.76	117	27988	4.633	ug/l	98

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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.07	83	35257	4.555	ug/l	95
40) Benzene	8.03	78	94374	4.765	ug/l	99
41) Methacrylonitrile	7.16	41	9164	4.049	ug/l #	100
42) 1,2-Dichloroethane	8.11	62	30385	4.967	ug/l	98
43) Isopropyl Acetate	8.15	43	38758	4.578	ug/l #	90
44) Trichloroethene	8.82	130	24022	4.446	ug/l	89
45) 1,2-Dichloropropane	9.11	63	24629	4.627	ug/l	100
46) Dibromomethane	9.20	93	14811	4.616	ug/l	96
47) Bromodichloromethane	9.39	83	28611	4.566	ug/l	95
48) Methyl methacrylate	9.19	41	19280	4.743	ug/l	97
49) 1,4-Dioxane	9.19	88	7364	86.524	ug/l #	88
51) 4-Methyl-2-Pentanone	9.98	43	116400	23.122	ug/l	97
52) Toluene	10.15	92	56387	4.747	ug/l	99
53) t-1,3-Dichloropropene	10.37	75	26298	4.163	ug/l	97
54) cis-1,3-Dichloropropene	9.83	75	30264	4.069	ug/l	97
55) 1,1,2-Trichloroethane	10.55	97	22109	4.644	ug/l	98
56) Ethyl methacrylate	10.42	69	28680	4.481	ug/l	98
57) 1,3-Dichloropropane	10.70	76	37357	4.795	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.69	63	53145	21.066	ug/l	99
59) 2-Hexanone	10.74	43	75270	21.810	ug/l	99
60) Dibromochloromethane	10.89	129	19940	4.123	ug/l	97
61) 1,2-Dibromoethane	11.00	107	21541	4.559	ug/l	97
64) Tetrachloroethene	10.62	164	27456	5.093	ug/l	97
65) Chlorobenzene	11.43	112	58965	4.775	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.50	131	20881	4.547	ug/l	93
67) Ethyl Benzene	11.50	91	99560	4.683	ug/l	100
68) m/p-Xylenes	11.61	106	72865	9.192	ug/l	99
69) o-Xylene	11.94	106	35903	4.628	ug/l	100
70) Styrene	11.96	104	53288	4.337	ug/l	99
71) Bromoform	12.12	173	13603	4.265	ug/l #	93
73) Isopropylbenzene	12.24	105	92902	5.230	ug/l	99
74) N-amyl acetate	12.06	43	27373	5.250	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.50	83	28011	5.474	ug/l	96
76) 1,2,3-Trichloropropane	12.55	75	22529m	5.766	ug/l	
77) Bromobenzene	12.52	156	24319	5.359	ug/l	98
78) n-propylbenzene	12.58	91	95830	5.109	ug/l	99
79) 2-Chlorotoluene	12.67	91	60194	5.155	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	77562	5.289	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.29	75	5115	4.129	ug/l #	81
82) 4-Chlorotoluene	12.77	91	54988	5.126	ug/l	98
83) tert-Butylbenzene	12.99	119	69806	5.402	ug/l	99
84) 1,2,4-Trimethylbenzene	13.03	105	71325	5.136	ug/l	100
85) sec-Butylbenzene	13.17	105	83636	5.119	ug/l	100
86) p-Isopropyltoluene	13.28	119	74715	5.175	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	31745	4.675	ug/l	98
88) 1,4-Dichlorobenzene	13.36	146	32410	4.985	ug/l	96
89) n-Butylbenzene	13.61	91	51794	4.645	ug/l	96
90) Hexachloroethane	13.87	117	12148	4.753	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	33754	4.908	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	14.27	75	3099	4.438	ug/l	96

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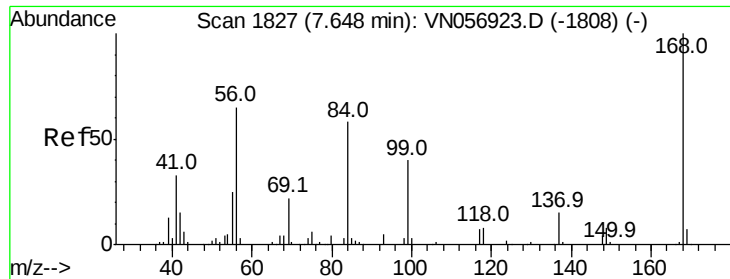
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	9066	3.191	ug/l	97
94) Hexachlorobutadiene	15.00	225	13257	4.775	ug/l	95
95) Naphthalene	15.12	128	22691	3.158	ug/l	98
96) 1,2,3-Trichlorobenzene	15.29	180	11602	3.759	ug/l	93

(#) = 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: VN056933.D

Acq: 25 Jul 2019 20:51

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT3-2019

Tot Ion:168 Resp: 455320

Ion Ratio Lower Upper

168 100

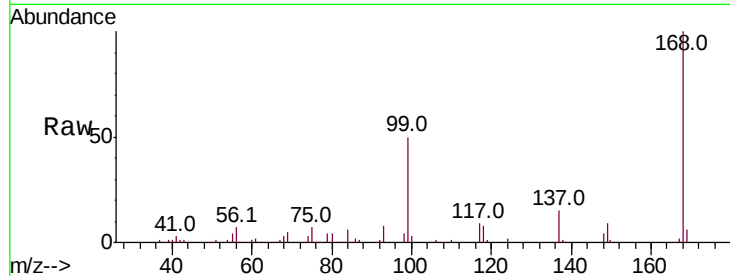
99 50.3 38.6 58.0

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): VN056933.D (-1734) (-)

Ion 98.90 (98.60 to 99.60): VN056933.D (-1734) (-)

7.65

200000

150000

100000

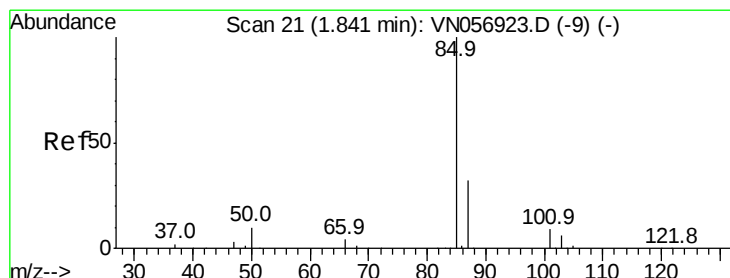
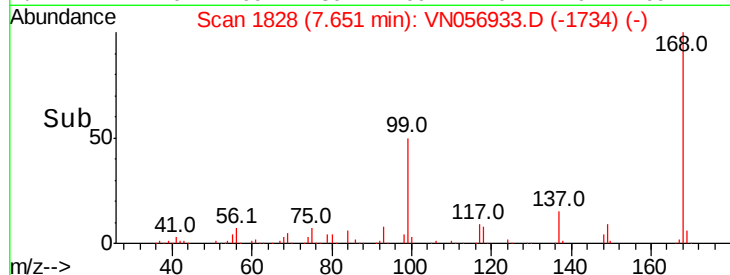
50000

0

7.60

7.70

Time-->



#2

Dichlorodifluoromethane

Concen: 3.857 ug/l

RT: 1.84 min Scan# 21

Delta R.T. 0.00 min

Lab File: VN056933.D

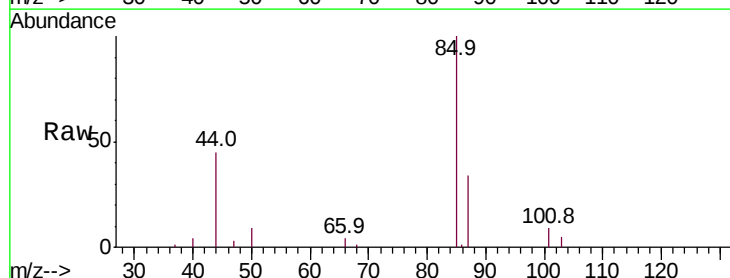
Acq: 25 Jul 2019 20:51

Tgt Ion: 85 Resp: 18933

Ion Ratio Lower Upper

85 100

87 34.3 16.2 48.5



Abundance Ion 84.90 (84.60 to 85.60): VN056933.D (-1) (-)

Ion 86.90 (86.60 to 87.60): VN056933.D (-1) (-)

1.84

15000

10000

5000

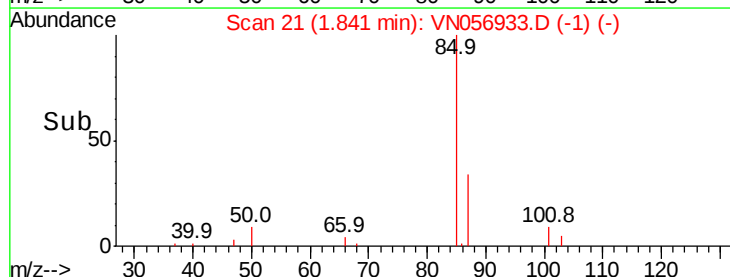
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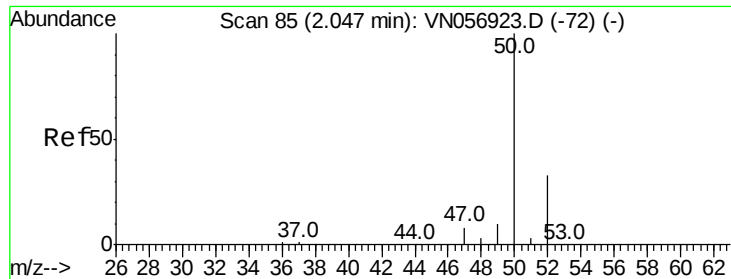
1.80

1.85

1.90

Time-->





#3

Chloromethane

Concen: 4.437 ug/l

RT: 2.05 min Scan# 85

Delta R.T. -0.00 min

Lab File: VN056933.D

Acq: 25 Jul 2019 20:51

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT3-2019

Tot Ion: 50 Resp: 26039

Ion Ratio Lower Upper

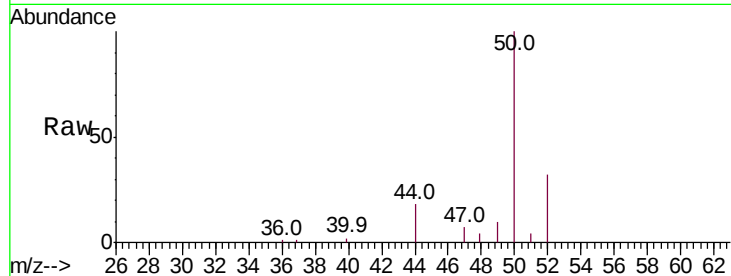
50 100

52 32.4 26.8 40.2

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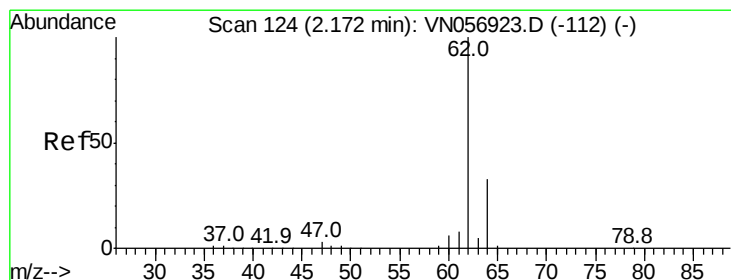
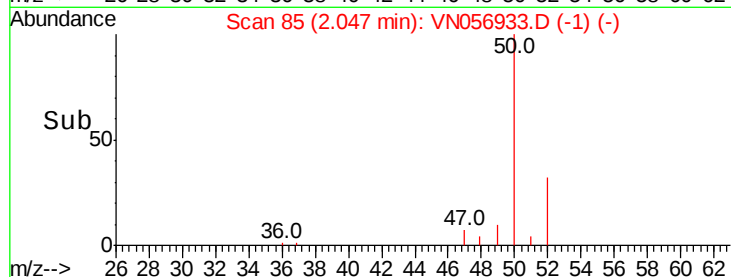
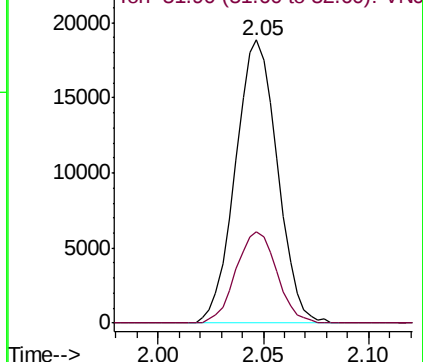
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Abundance Ion 49.90 (49.60 to 50.60): VNC

Ion 51.90 (51.60 to 52.60): VNC



#4

Vinyl Chloride

Concen: 4.509 ug/l

RT: 2.17 min Scan# 124

Delta R.T. -0.00 min

Lab File: VN056933.D

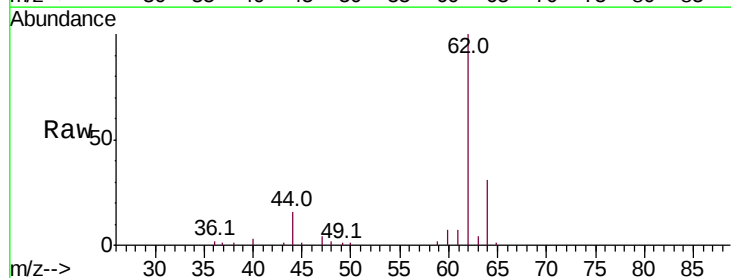
Acq: 25 Jul 2019 20:51

Tgt Ion: 62 Resp: 24915

Ion Ratio Lower Upper

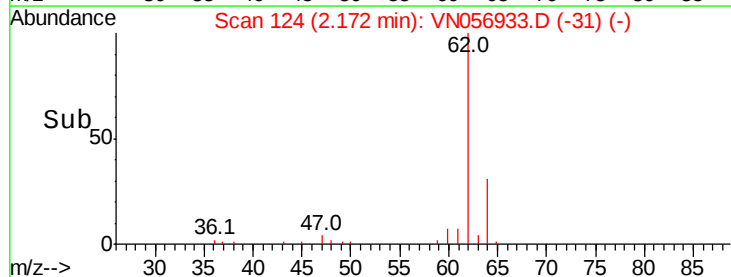
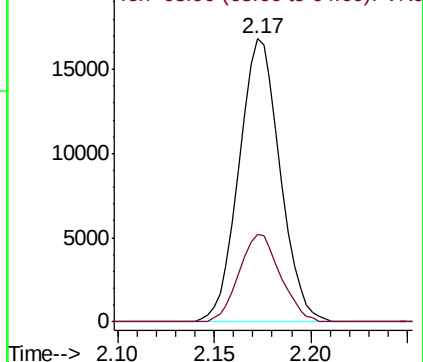
62 100

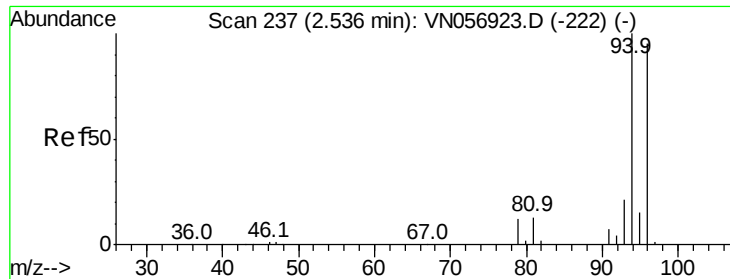
64 30.9 26.4 39.6



Abundance Ion 61.90 (61.60 to 62.60): VNC

Ion 63.90 (63.60 to 64.60): VNC





#5

Bromomethane

Concen: 5.432 ug/l

RT: 2.54 min Scan# 237

Delta R.T. -0.00 min

Lab File: VN056933.D

Acq: 25 Jul 2019 20:51

Instrument :

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ClientSampleId :

LOQ-WATER-02-QT3-2019

Tot Ion: 94 Resp: 18156

Ion Ratio Lower Upper

94 100

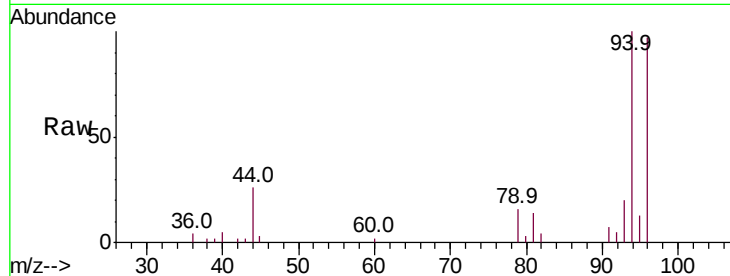
96 96.7 75.7 113.5

Manual Integrations

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Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

2.54

8000

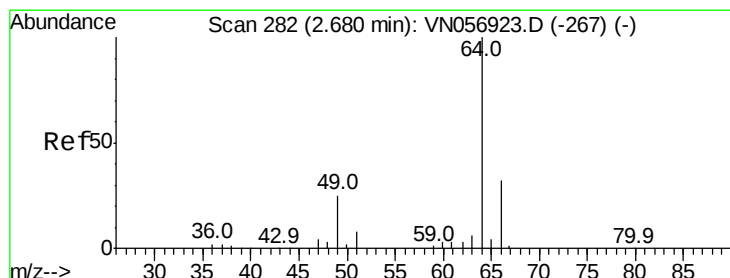
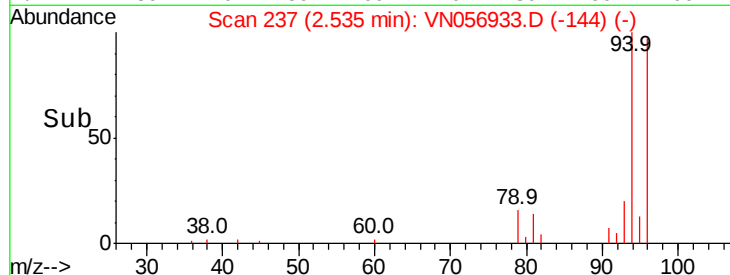
6000

4000

2000

0

Time-->



#6

Chloroethane

Concen: 4.765 ug/l

RT: 2.68 min Scan# 283

Delta R.T. 0.00 min

Lab File: VN056933.D

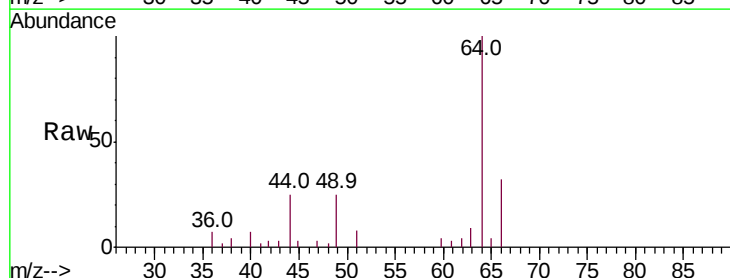
Acq: 25 Jul 2019 20:51

Tgt Ion: 64 Resp: 14616

Ion Ratio Lower Upper

64 100

66 32.0 25.8 38.6



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0

8000

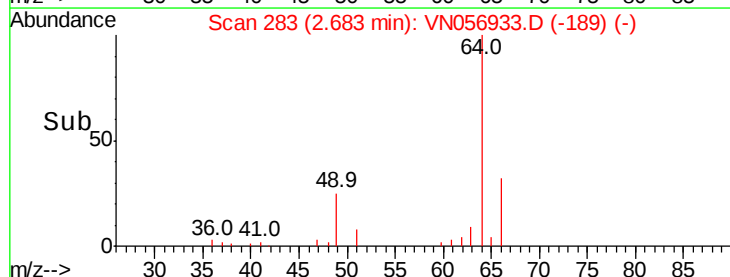
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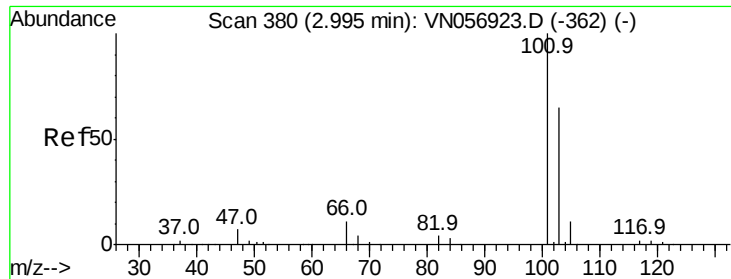
4000

2000

0

Time-->





#7

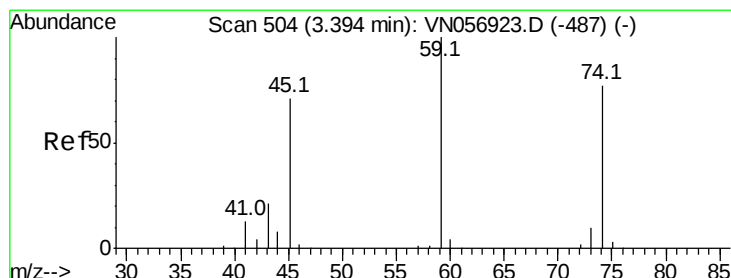
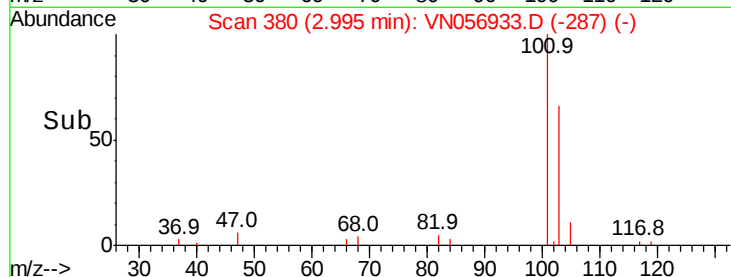
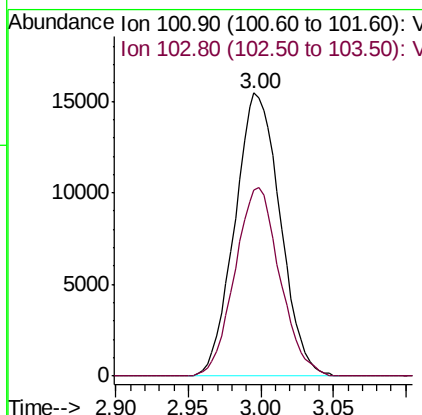
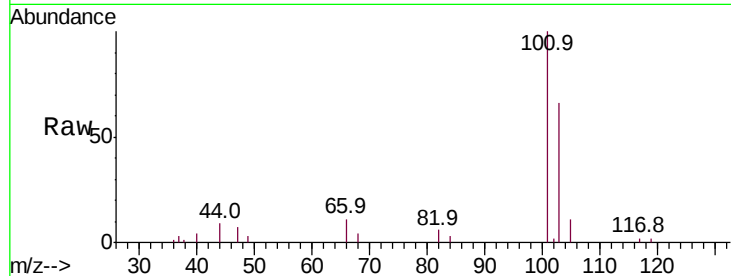
Trichlorofluoromethane
 Concen: 4.655 ug/l
 RT: 3.00 min Scan# 380
 Delta R.T. -0.00 min
 Lab File: VN056933.D
 Acq: 25 Jul 2019 20:51

Instrument :
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 LOQ-WATER-02-QT3-2019

Tot Ion:101 Resp: 33526
 Ion Ratio Lower Upper
 101 100
 103 65.6 52.0 78.0

Manual Integrations
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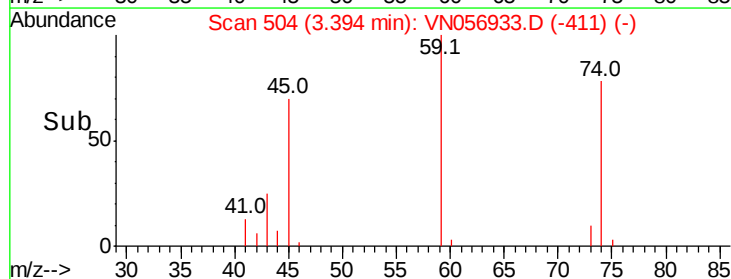
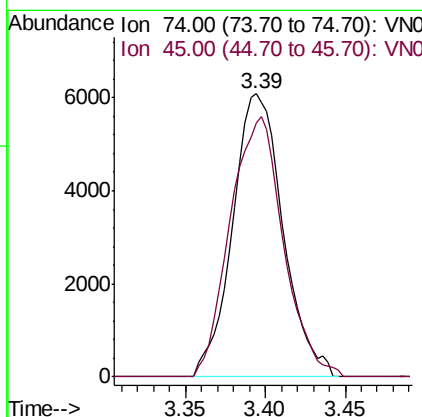
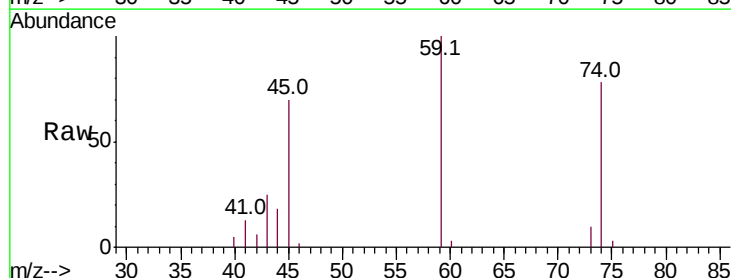
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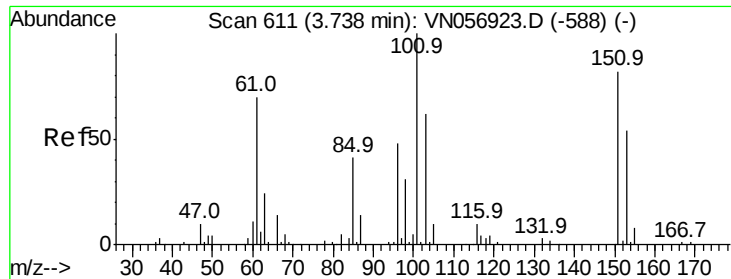


#8

Diethyl Ether
 Concen: 4.875 ug/l
 RT: 3.39 min Scan# 504
 Delta R.T. -0.00 min
 Lab File: VN056933.D
 Acq: 25 Jul 2019 20:51

Tgt Ion: 74 Resp: 13147
 Ion Ratio Lower Upper
 74 100
 45 97.2 48.1 144.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 4.861 ug/l

RT: 3.73 min Scan# 610

Delta R.T. -0.00 min

Lab File: VN056933.D

Acq: 25 Jul 2019 20:51

Instrument :

MSVOA_N

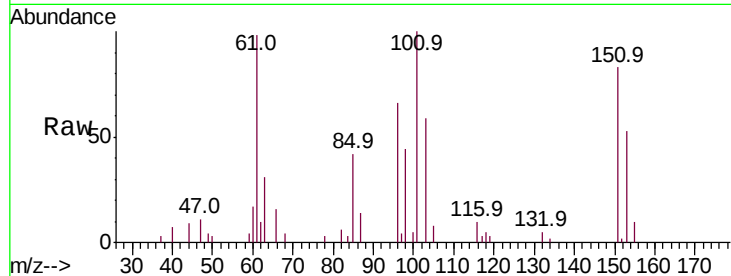
ClientSampleId :

LOQ-WATER-02-QT3-2019

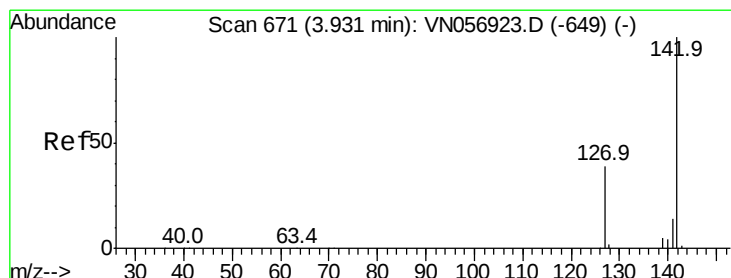
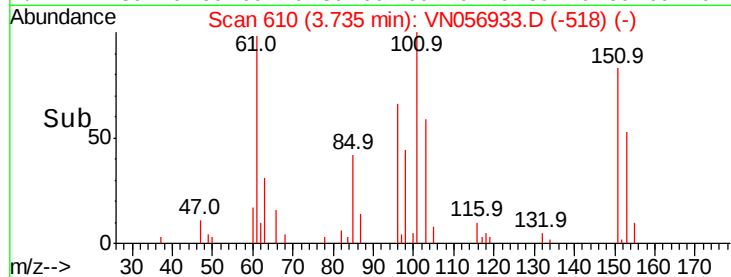
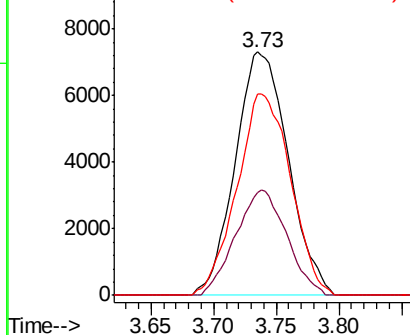
Tot Ion:	101	Resp:	21511
Ion Ratio	Lower	Upper	
101	100		
85	41.6	32.7	49.1
151	83.8	67.4	101.0

Manual Integrations
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Abundance Ion 100.90 (100.60 to 101.60): V
Ion 84.90 (84.60 to 85.60): V
Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 3.731 ug/l

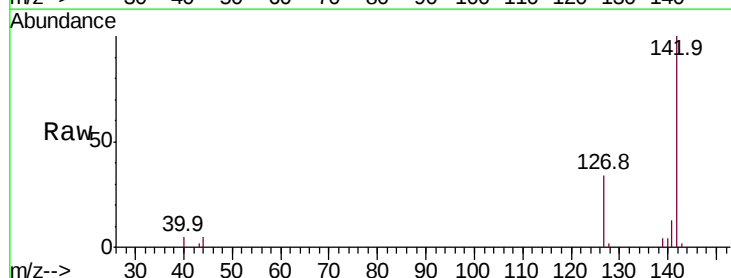
RT: 3.93 min Scan# 672

Delta R.T. 0.00 min

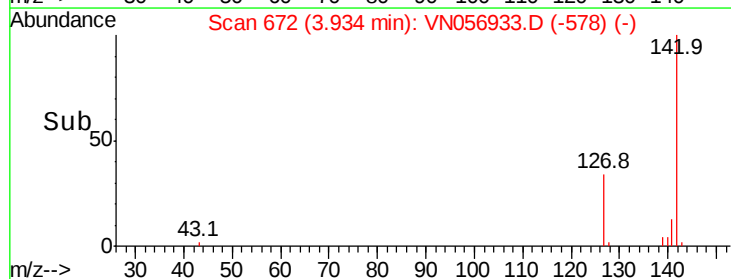
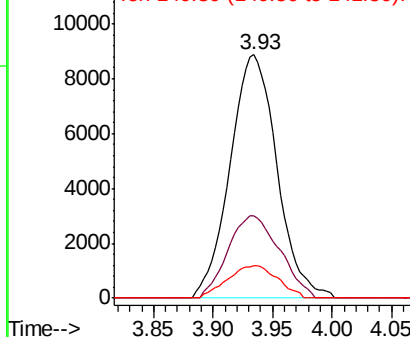
Lab File: VN056933.D

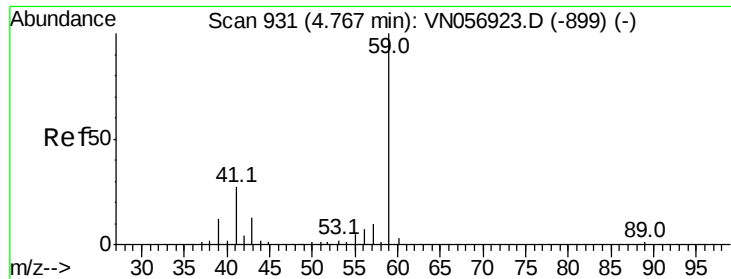
Acq: 25 Jul 2019 20:51

Tgt Ion:	142	Resp:	24257
Ion Ratio	Lower	Upper	
142	100		
127	37.1	30.5	45.7
141	14.3	11.1	16.7



Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V





#11

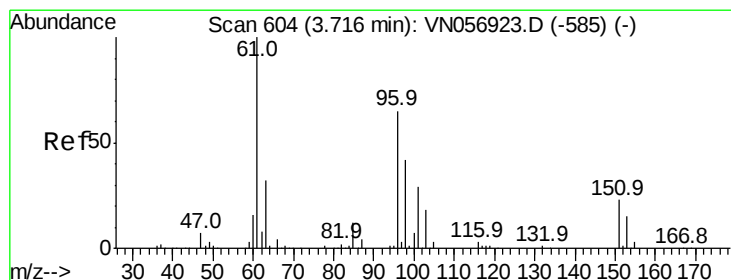
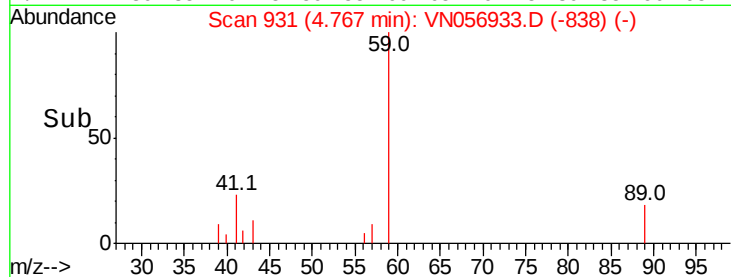
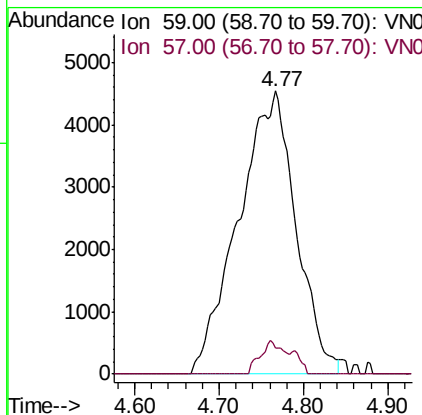
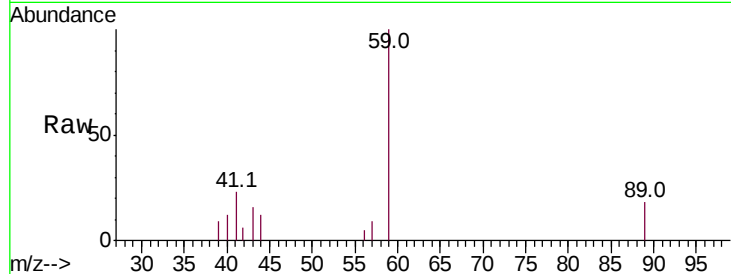
Tert butyl alcohol
 Concen: 31.690 ug/l
 RT: 4.77 min Scan# 931
 Delta R.T. -0.00 min
 Lab File: VN056933.D
 Acq: 25 Jul 2019 20:51

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT3-2019

Tot Ion: 59 Resp: 21539
 Ion Ratio Lower Upper
 59 100
 57 4.8 7.6 11.4#

Manual Integrations
 APPROVED

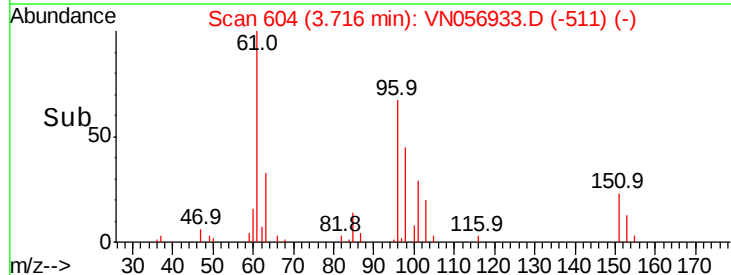
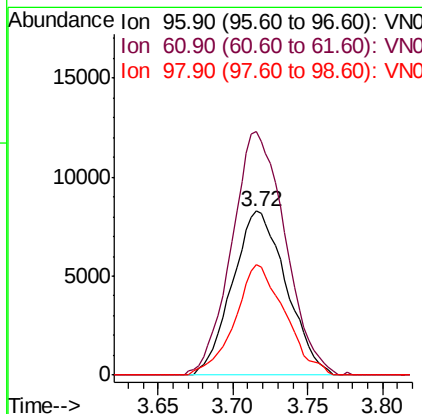
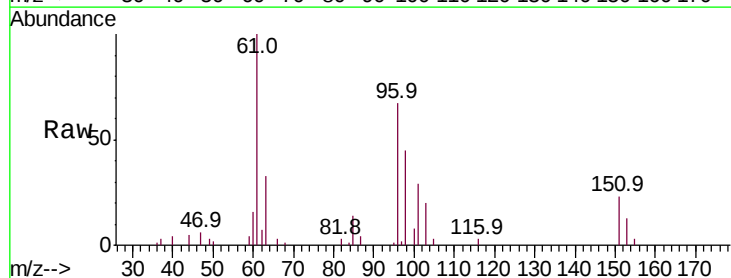
MMDadoda
 7/26/2019 3:37:50 PM

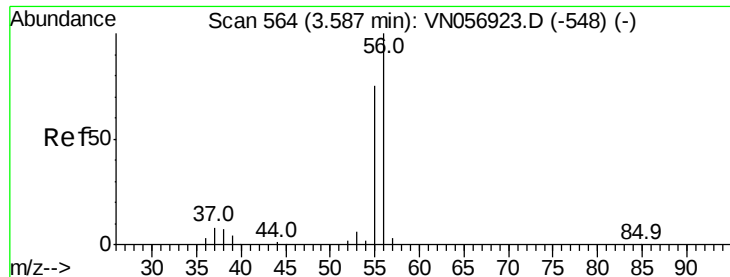


#12

1,1-Dichloroethene
 Concen: 4.856 ug/l
 RT: 3.72 min Scan# 604
 Delta R.T. -0.00 min
 Lab File: VN056933.D
 Acq: 25 Jul 2019 20:51

Tgt Ion: 96 Resp: 20749
 Ion Ratio Lower Upper
 96 100
 61 148.4 122.4 183.6
 98 67.3 51.3 76.9





#13

Acrolein

Concen: 27.125 ug/l

RT: 3.59 min Scan# 564

Delta R.T. -0.00 min

Lab File: VN056933.D

Acq: 25 Jul 2019 20:51

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT3-2019

Tot Ion: 56 Resp: 10332

Ion Ratio Lower Upper

56 100

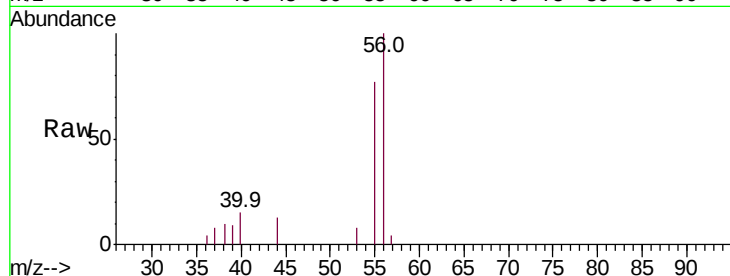
55 73.3 57.5 86.3

Manual Integrations

APPROVED

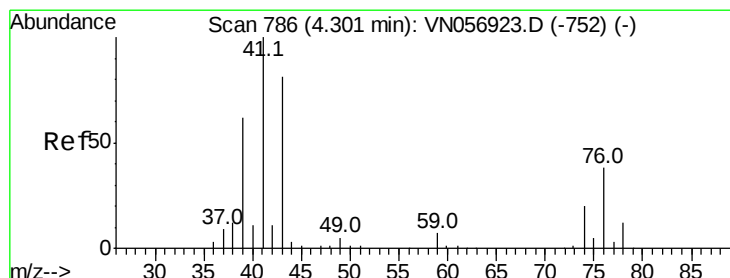
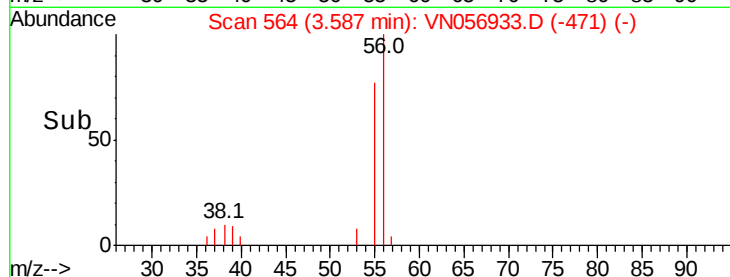
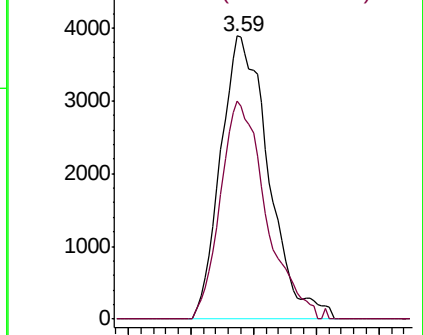
MMDadoda

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Abundance Ion 56.00 (55.70 to 56.70): VNO

Ion 55.00 (54.70 to 55.70): VNO



#14

Allyl chloride

Concen: 4.552 ug/l

RT: 4.30 min Scan# 787

Delta R.T. 0.00 min

Lab File: VN056933.D

Acq: 25 Jul 2019 20:51

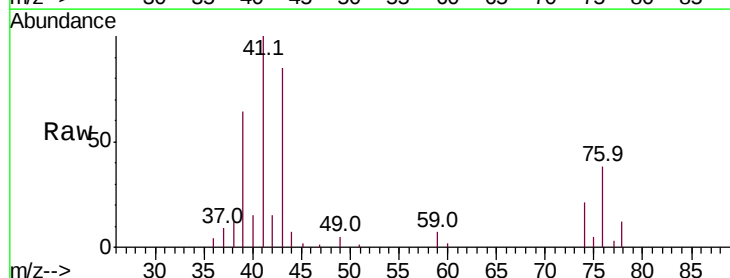
Tgt Ion: 41 Resp: 31560

Ion Ratio Lower Upper

41 100

39 64.2 47.5 71.3

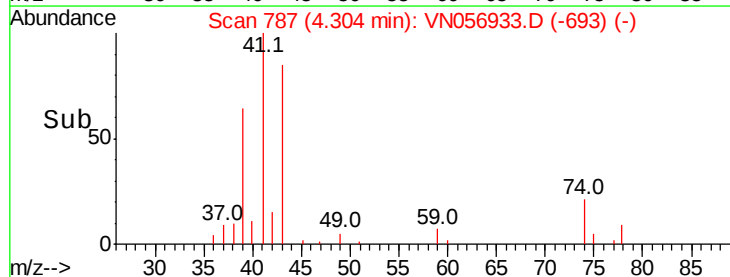
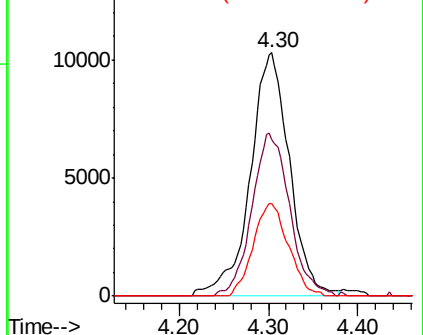
76 34.3 28.0 42.0

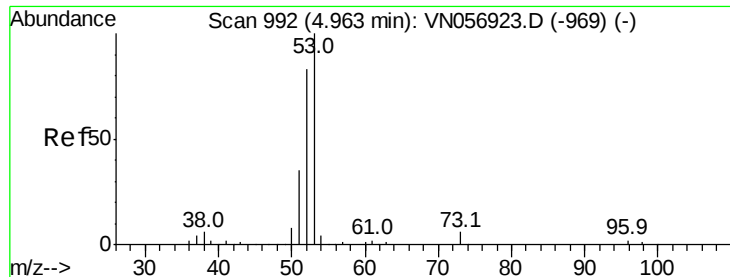


Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

Ion 75.90 (75.60 to 76.60): VNO





#15

Acrylonitrile

Concen: 23.886 ug/l

RT: 4.97 min Scan# 994

Delta R.T. 0.01 min

Lab File: VN056933.D

Acq: 25 Jul 2019 20:51

Instrument :

MSVOA_N

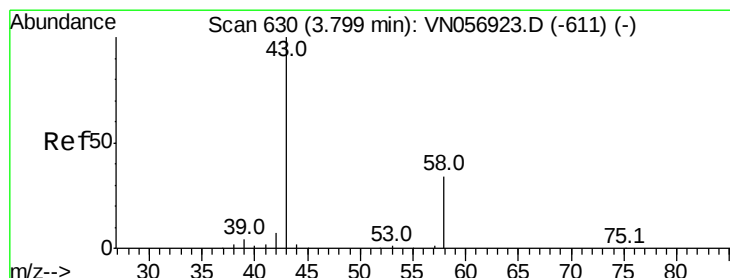
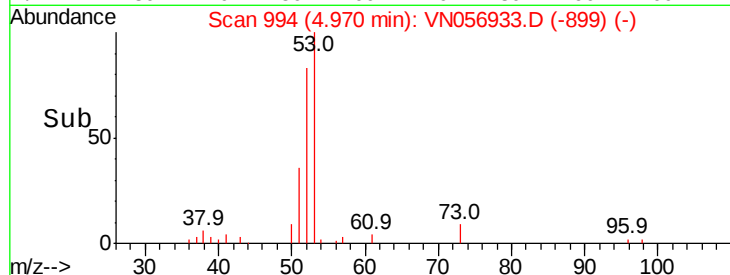
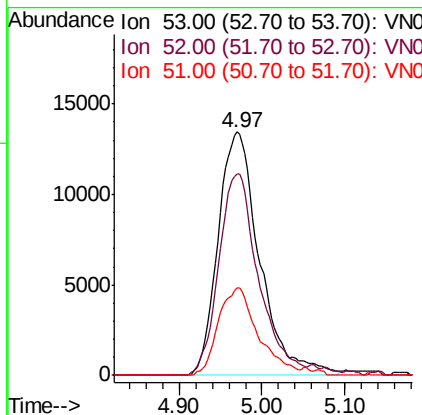
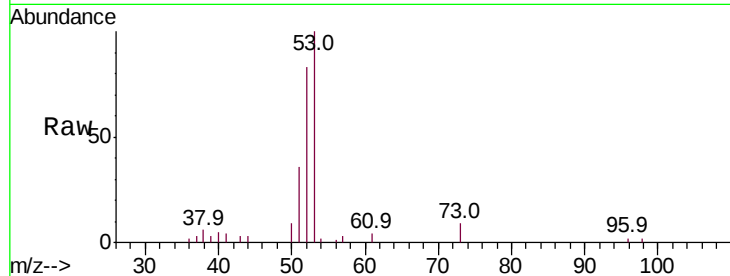
ClientSampleId :

LOQ-WATER-02-QT3-2019

Tot Ion:	53	Resp:	46721
Ion	Ratio	Lower	Upper
53	100		
52	79.3	65.5	98.3
51	34.6	28.1	42.1

Manual Integrations
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#16

Acetone

Concen: 22.505 ug/l

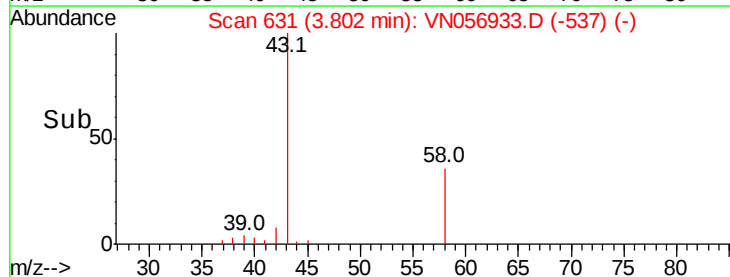
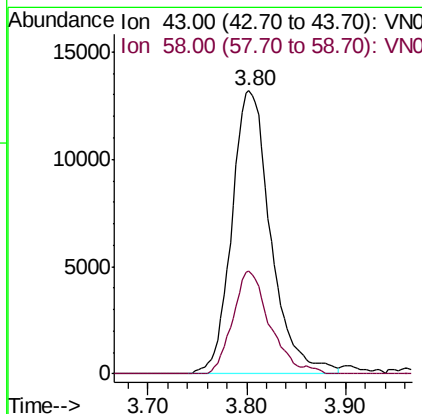
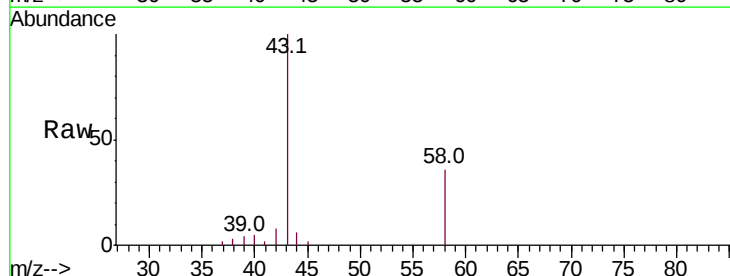
RT: 3.80 min Scan# 631

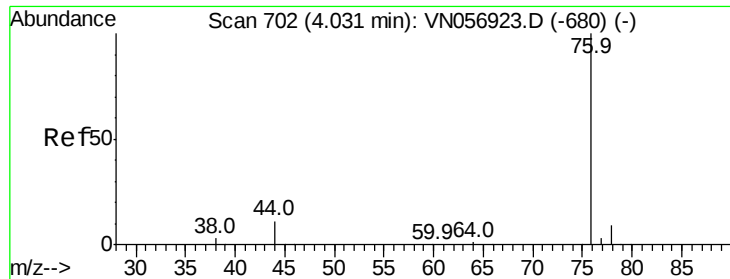
Delta R.T. 0.00 min

Lab File: VN056933.D

Acq: 25 Jul 2019 20:51

Tgt Ion:	43	Resp:	36210
Ion	Ratio	Lower	Upper
43	100		
58	36.4	27.3	40.9





#17

Carbon Disulfide

Concen: 4.319 ug/l

RT: 4.03 min Scan# 703

Delta R.T. 0.00 min

Lab File: VN056933.D

Acq: 25 Jul 2019 20:51

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT3-2019

Tot Ion: 76 Resp: 49703

Ion Ratio Lower Upper

76 100

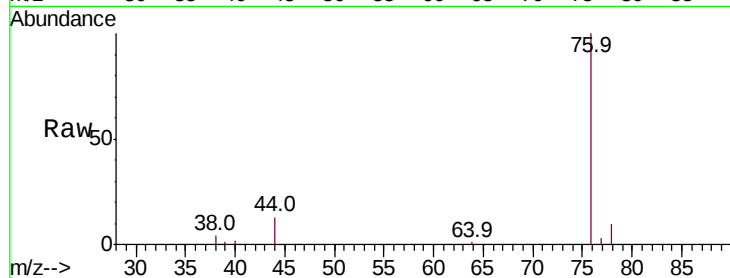
78 9.6 7.3 10.9

Manual Integrations

APPROVED

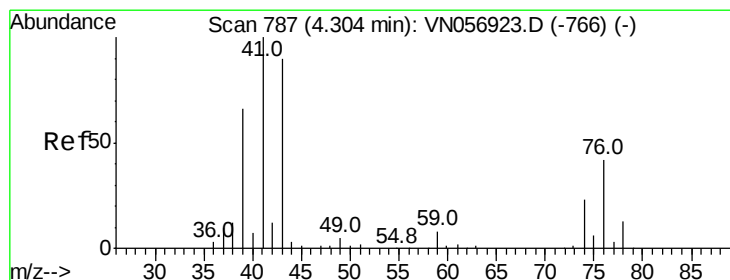
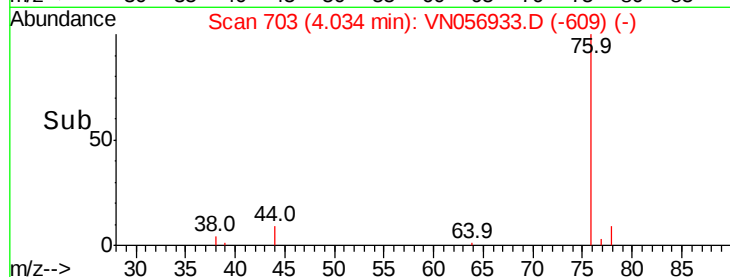
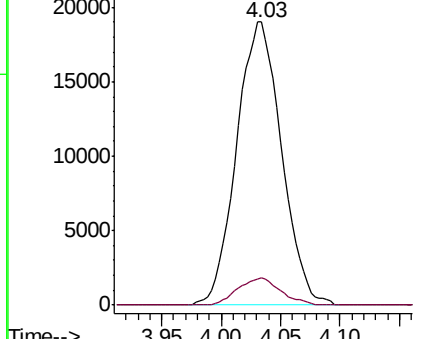
MMDadoda

7/26/2019 3:37:50 PM



Abundance Ion 75.90 (75.60 to 76.60): VNO

Ion 77.90 (77.60 to 78.60): VNO



#18

Methyl Acetate

Concen: 4.728 ug/l

RT: 4.31 min Scan# 788

Delta R.T. 0.00 min

Lab File: VN056933.D

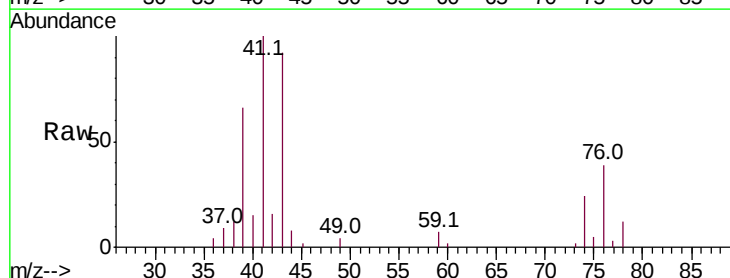
Acq: 25 Jul 2019 20:51

Tgt Ion: 43 Resp: 26635

Ion Ratio Lower Upper

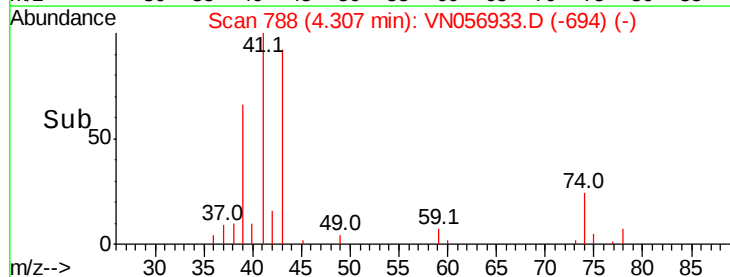
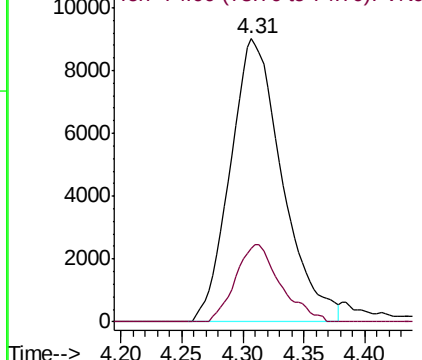
43 100

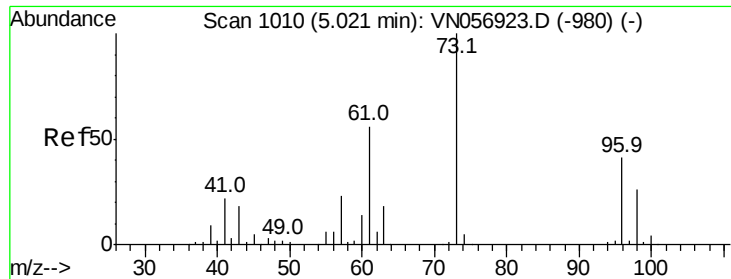
74 23.6 19.4 29.0



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 74.00 (73.70 to 74.70): VNO





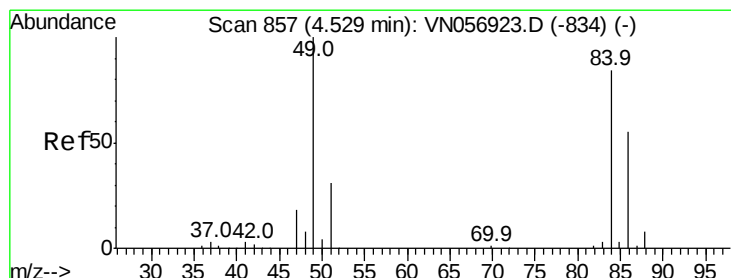
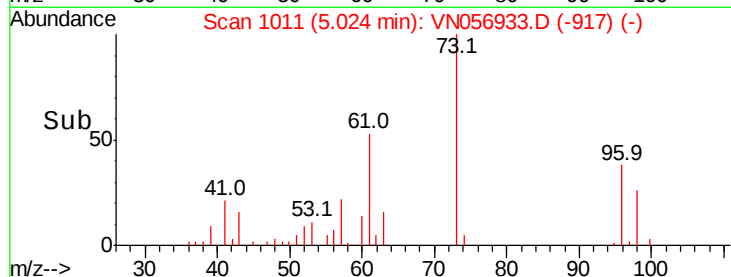
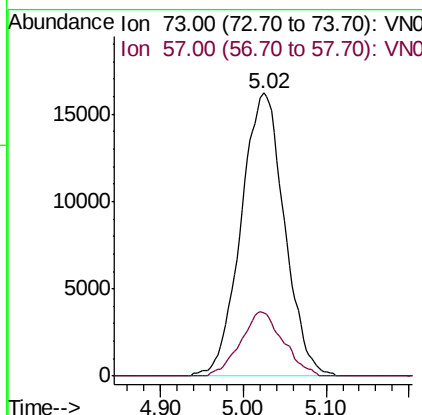
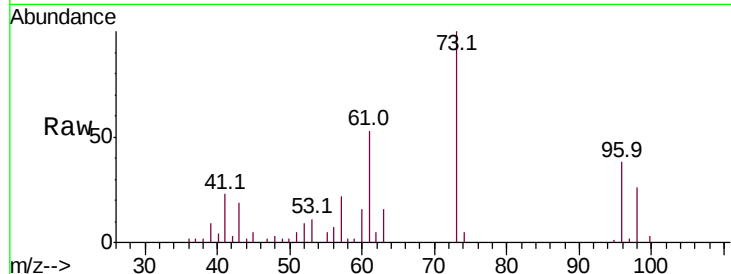
#19
Methvl tert-butvl Ether
Concen: 4.693 ug/l
RT: 5.02 min Scan# 1011
Delta R.T. 0.00 min
Lab File: VN056933.D
Acq: 25 Jul 2019 20:51

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT3-2019

Tot Ion: 73 Resp: 58968
Ion Ratio Lower Upper
73 100
57 22.3 18.2 27.4

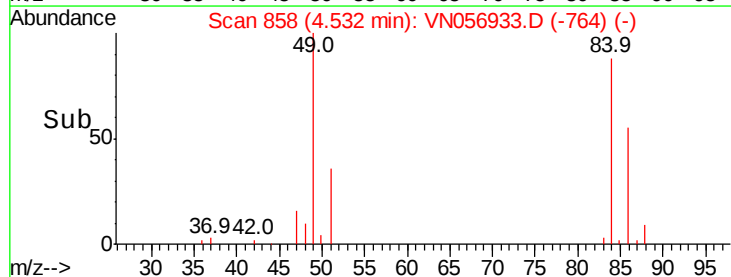
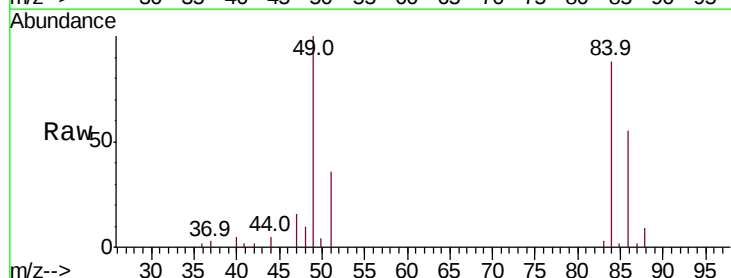
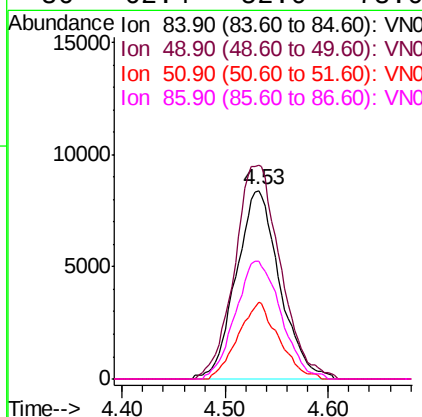
Manual Integrations
APPROVED

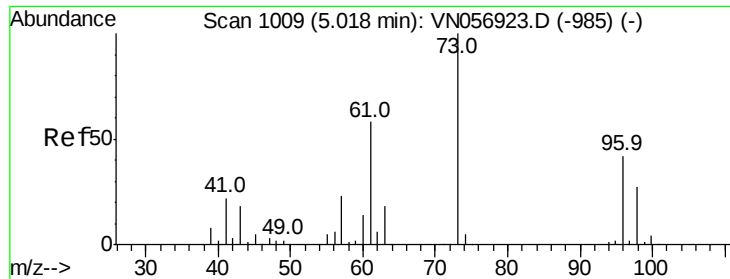
MMDadoda
7/26/2019 3:37:50 PM



#20
Methylene Chloride
Concen: 4.852 ug/l
RT: 4.53 min Scan# 858
Delta R.T. 0.00 min
Lab File: VN056933.D
Acq: 25 Jul 2019 20:51

Tgt Ion: 84 Resp: 24723
Ion Ratio Lower Upper
84 100
49 113.3 95.0 142.6
51 40.6 29.8 44.8
86 62.4 52.0 78.0





#21

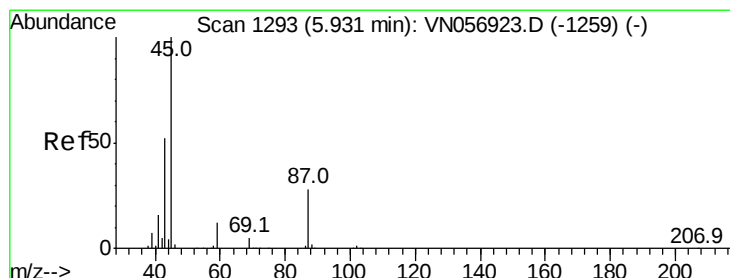
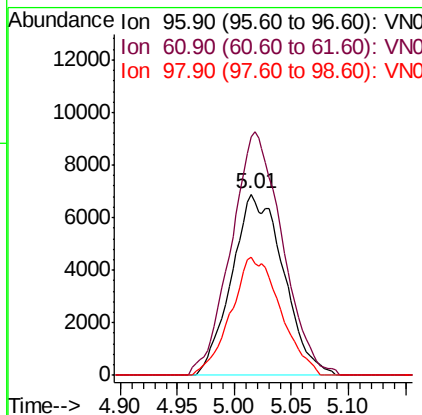
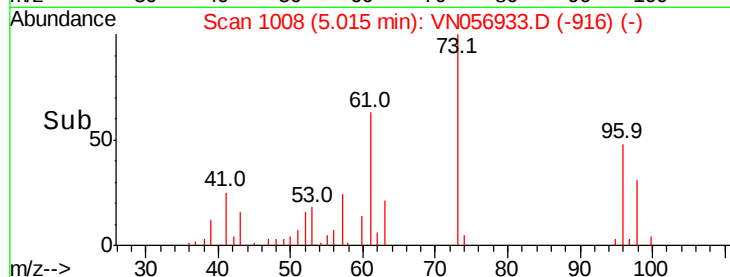
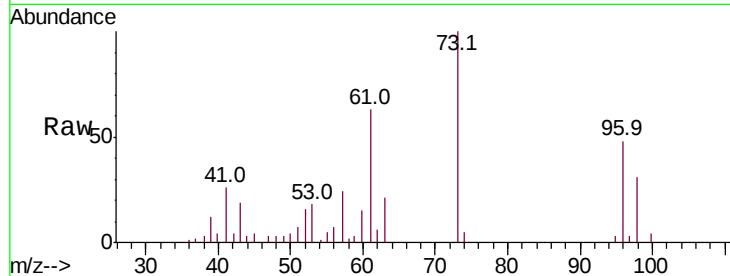
trans-1,2-Dichloroethene
Concen: 4.752 ug/l m
RT: 5.01 min Scan# 1008
Delta R.T. -0.00 min
Lab File: VN056933.D
Acq: 25 Jul 2019 20:51

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT3-2019

Tot Ion	Ratio	Lower	Upper
96	100		
61	132.0	109.9	164.9
98	65.0	51.0	76.4

Manual Integrations
APPROVED

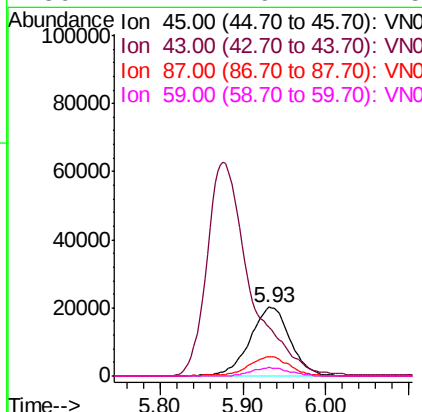
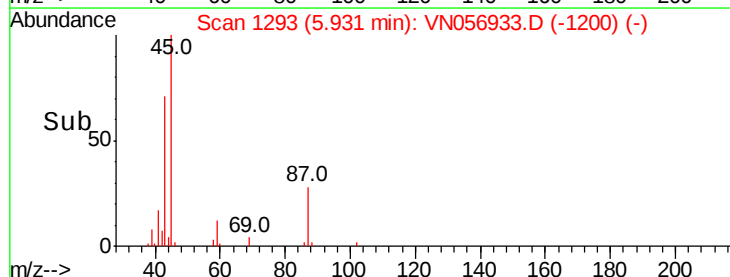
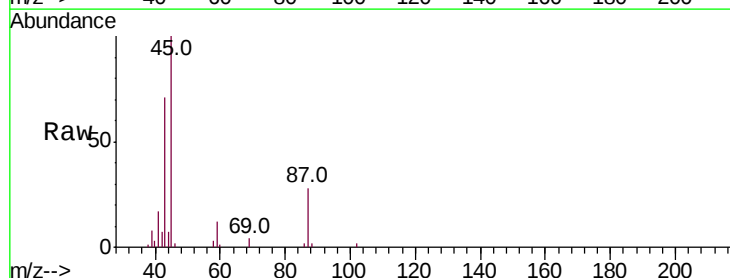
MMDadoda
7/26/2019 3:37:50 PM

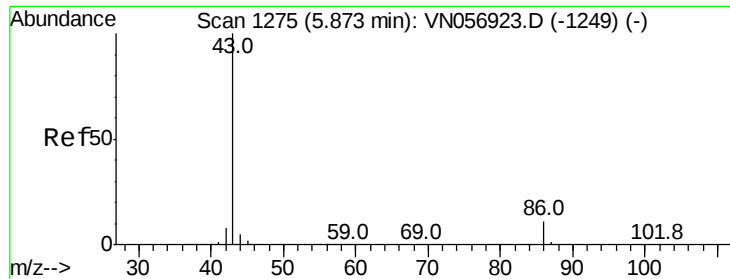


#22

Diisopropyl ether
Concen: 4.810 ug/l
RT: 5.93 min Scan# 1293
Delta R.T. -0.00 min
Lab File: VN056933.D
Acq: 25 Jul 2019 20:51

Tgt Ion	Ratio	Lower	Upper
45	100		
43	66.6	44.7	67.1
87	28.1	23.1	34.7
59	12.2	9.7	14.5





#23

Vinyl Acetate

Concen: 23.163 ug/l

RT: 5.88 min Scan# 1276

Delta R.T. 0.00 min

Lab File: VN056933.D

Acq: 25 Jul 2019 20:51

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT3-2019

Tot Ion: 43 Resp: 225279

Ion Ratio Lower Upper

43 100

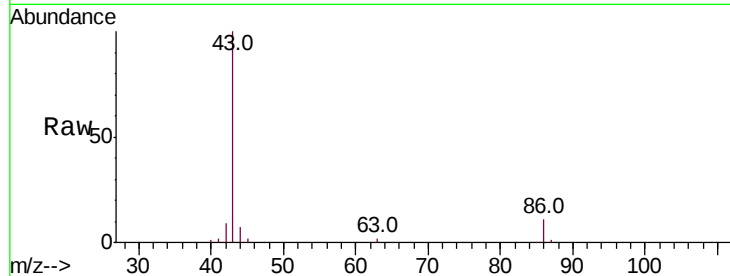
86 10.9 8.6 13.0

Manual Integrations

APPROVED

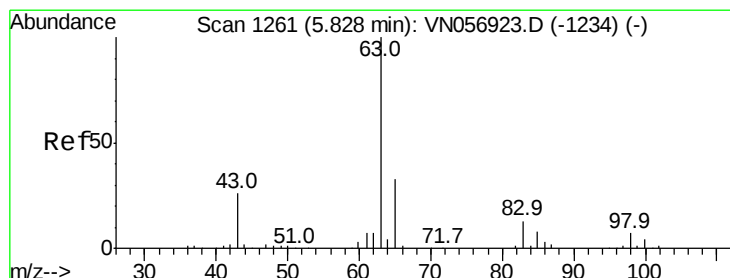
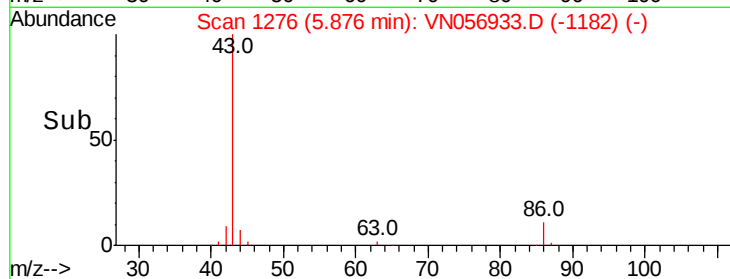
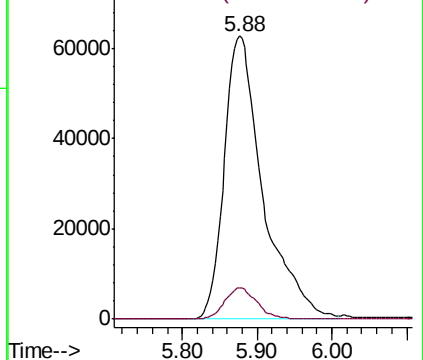
MMDadoda

7/26/2019 3:37:50 PM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#24

1,1-Dichloroethane

Concen: 4.872 ug/l

RT: 5.82 min Scan# 1260

Delta R.T. -0.00 min

Lab File: VN056933.D

Acq: 25 Jul 2019 20:51

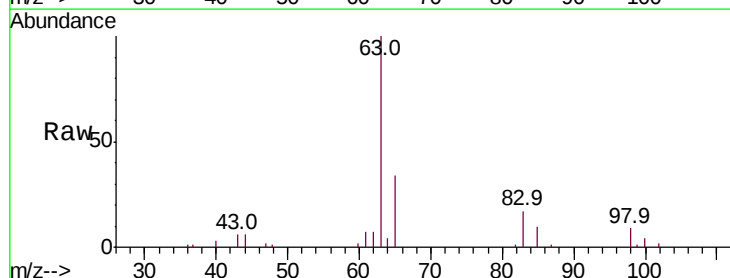
Tgt Ion: 63 Resp: 40415

Ion Ratio Lower Upper

63 100

98 9.1 3.4 10.1

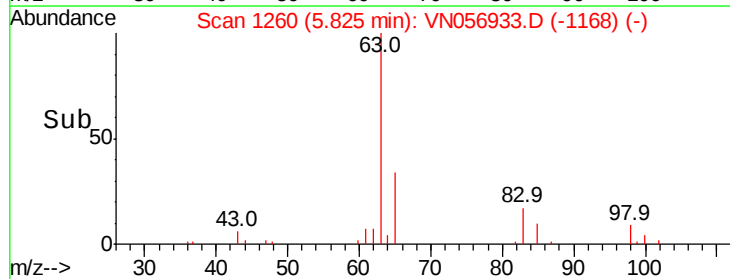
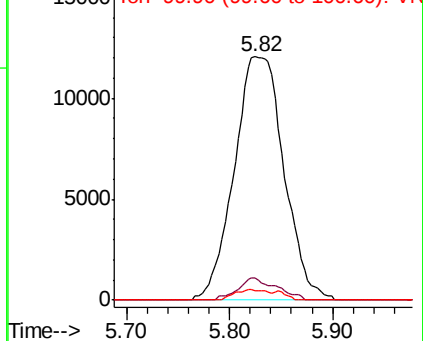
100 4.0 2.1 6.3

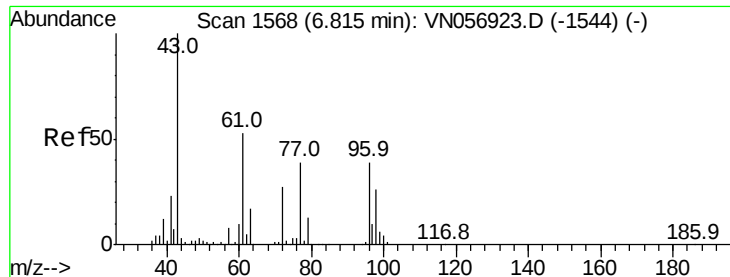


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





#25

2-Butanone

Concen: 22.933 ug/l

RT: 6.82 min Scan# 1570

Delta R.T. 0.01 min

Lab File: VN056933.D

Acq: 25 Jul 2019 20:51

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT3-2019

Tot Ion: 43 Resp: 56797

Ion Ratio Lower Upper

43 100

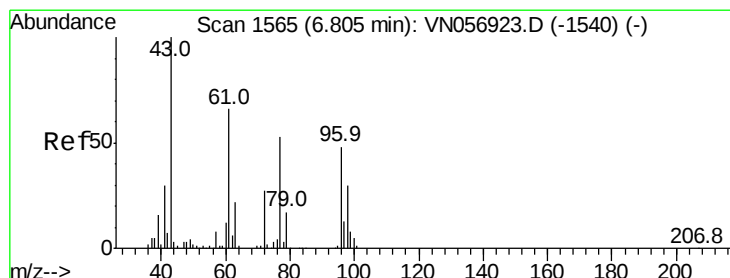
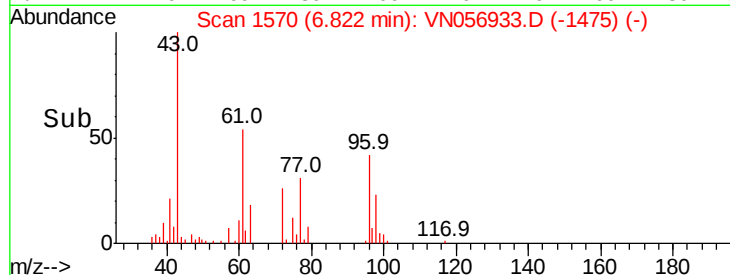
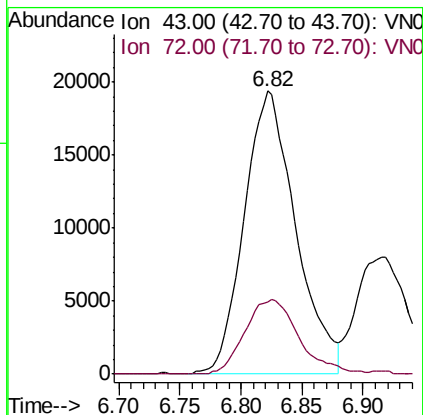
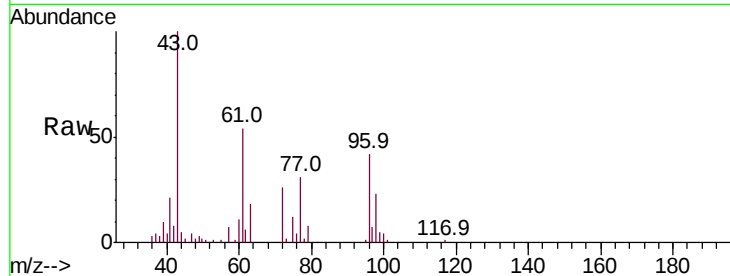
72 25.6 21.9 32.9

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 4.286 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. 0.00 min

Lab File: VN056933.D

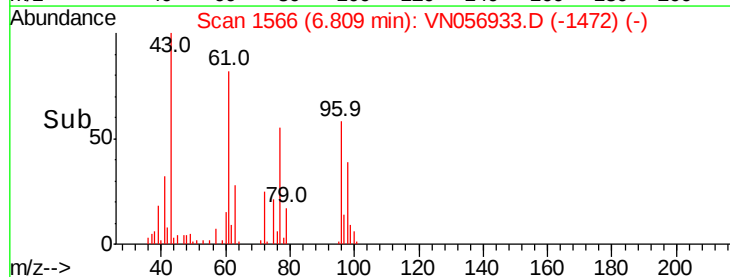
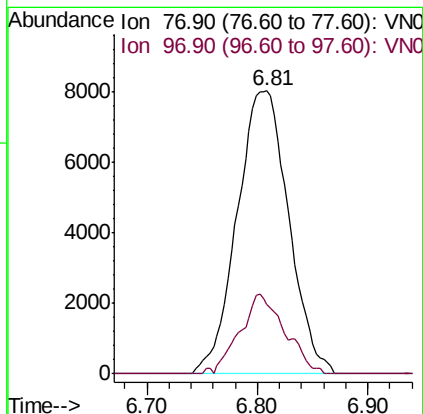
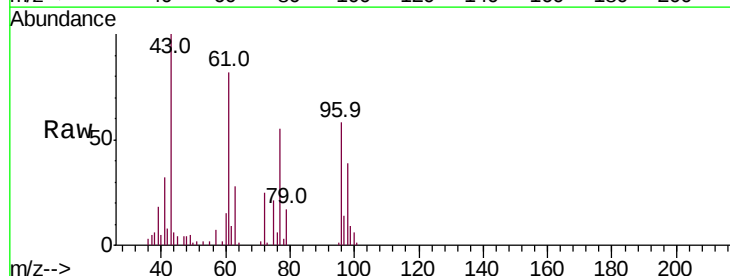
Acq: 25 Jul 2019 20:51

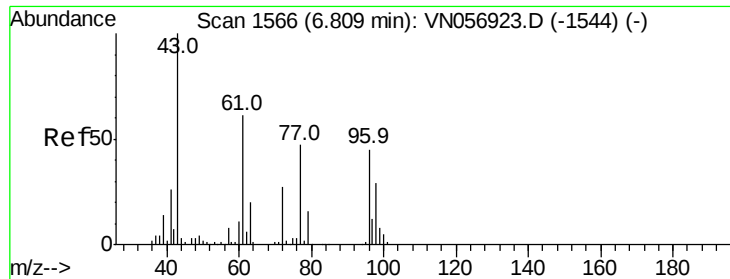
Tgt Ion: 77 Resp: 26089

Ion Ratio Lower Upper

77 100

97 24.6 12.3 36.8





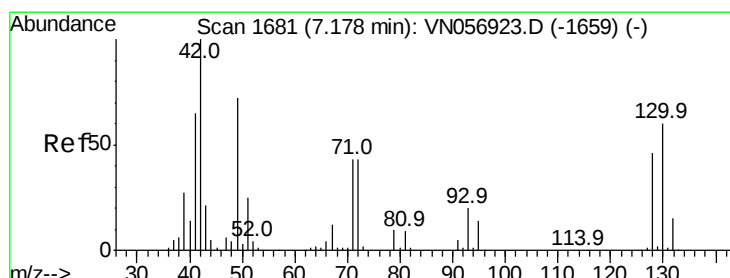
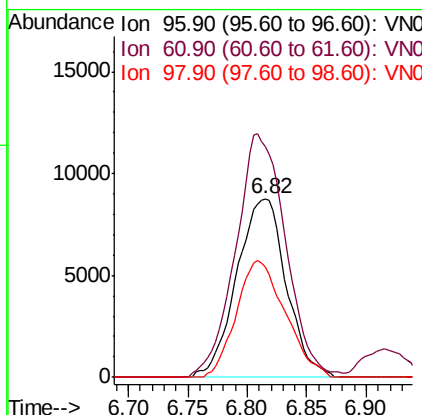
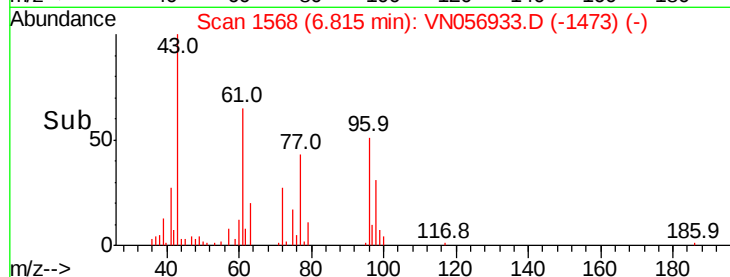
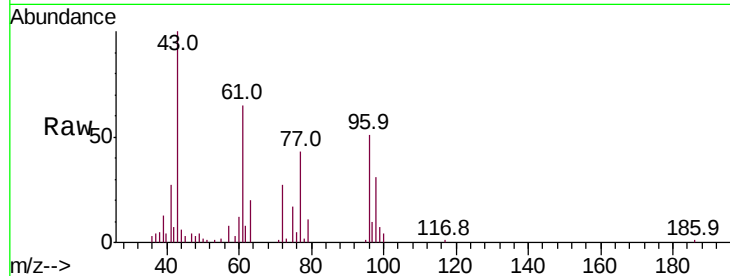
#27
 cis-1,2-Dichloroethene
 Concen: 4.840 ug/l
 RT: 6.82 min Scan# 1568
 Delta R.T. 0.01 min
 Lab File: VN056933.D
 Acq: 25 Jul 2019 20:51

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT3-2019

Tot Ion	Ratio	Lower	Upper
96	100		
61	138.1	0.0	278.8
98	64.6	0.0	130.0

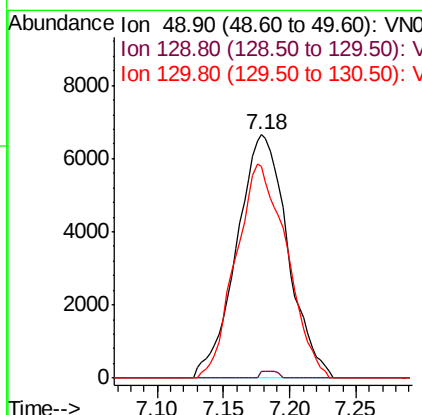
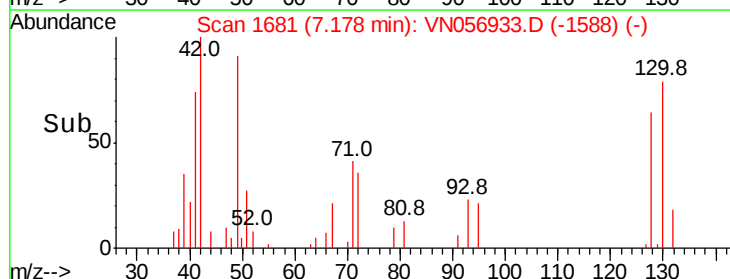
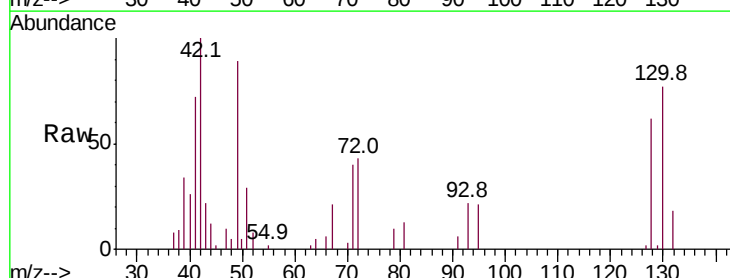
Manual Integrations
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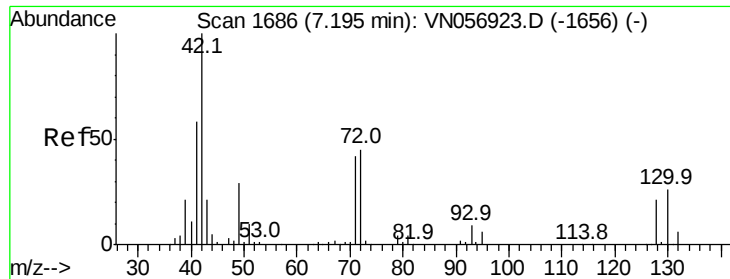
MMDadoda
 7/26/2019 3:37:50 PM



#28
 Bromochloromethane
 Concen: 4.650 ug/l
 RT: 7.18 min Scan# 1681
 Delta R.T. -0.00 min
 Lab File: VN056933.D
 Acq: 25 Jul 2019 20:51

Tgt Ion	Ratio	Lower	Upper
49	100		
129	1.0	0.0	4.4
130	88.0	67.3	100.9





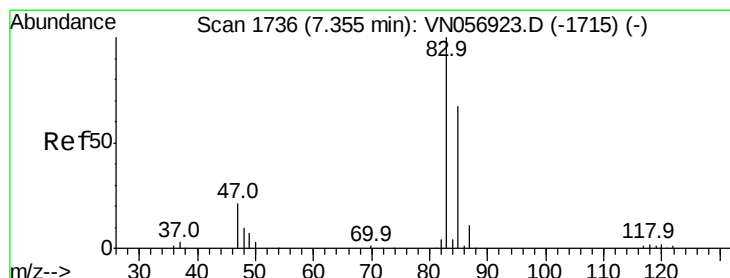
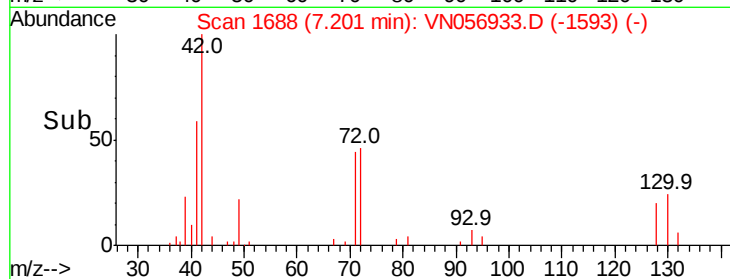
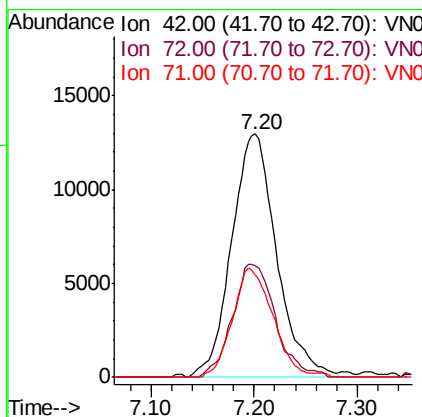
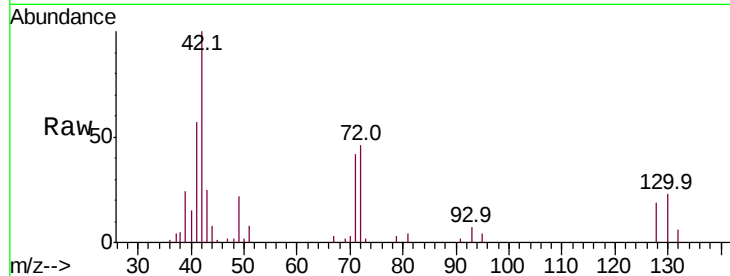
#29
Tetrahydrofuran
Concen: 24.275 ug/l
RT: 7.20 min Scan# 1688
Delta R.T. 0.01 min
Lab File: VN056933.D
Acq: 25 Jul 2019 20:51

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT3-2019

Tot Ion	Ratio	Lower	Upper
42	100		
72	44.4	35.5	53.3
71	40.3	33.0	49.6

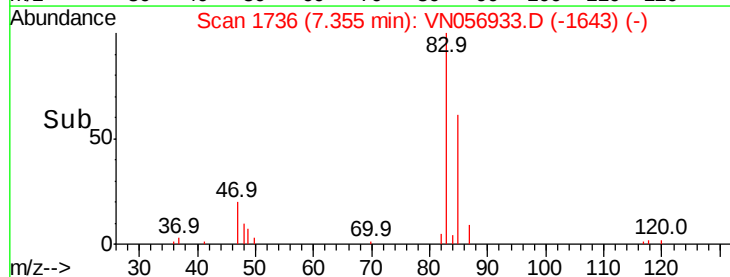
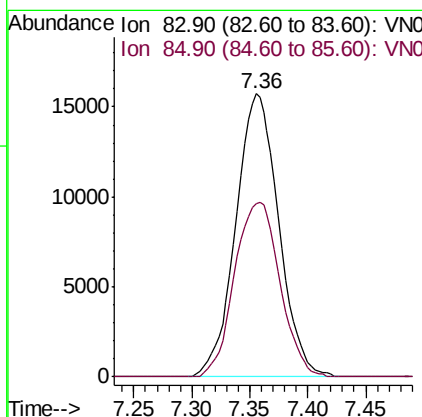
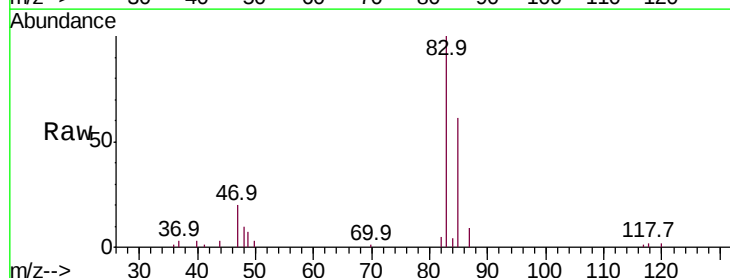
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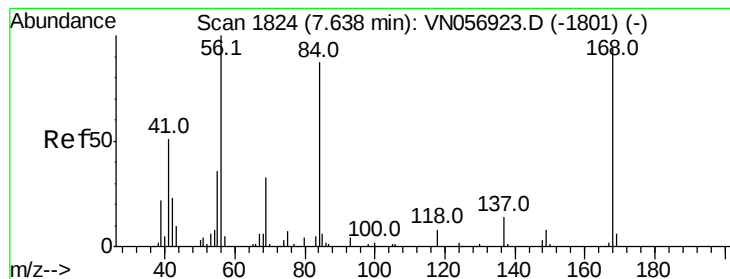
MMDadoda
7/26/2019 3:37:50 PM



#30
Chloroform
Concen: 4.737 ug/l
RT: 7.36 min Scan# 1736
Delta R.T. -0.00 min
Lab File: VN056933.D
Acq: 25 Jul 2019 20:51

Tgt Ion	Ratio	Lower	Upper
83	100		
85	61.4	53.5	80.3





#31

Cyclohexane

Concen: 5.334 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.00 min

Lab File: VN056933.D

Acq: 25 Jul 2019 20:51

Instrument :

MSVOA_N

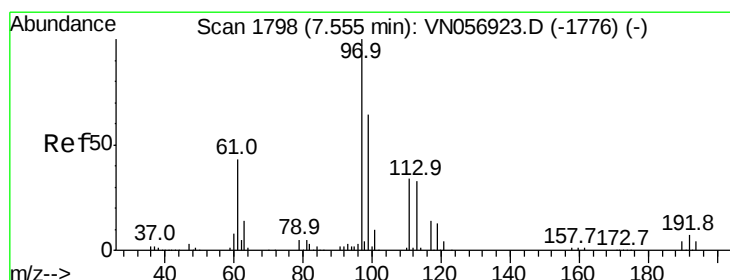
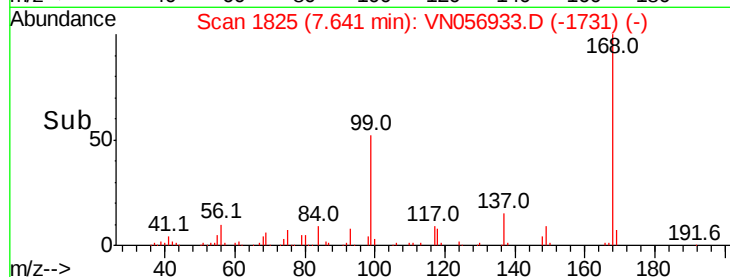
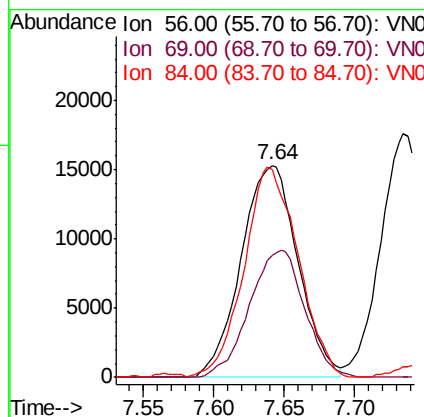
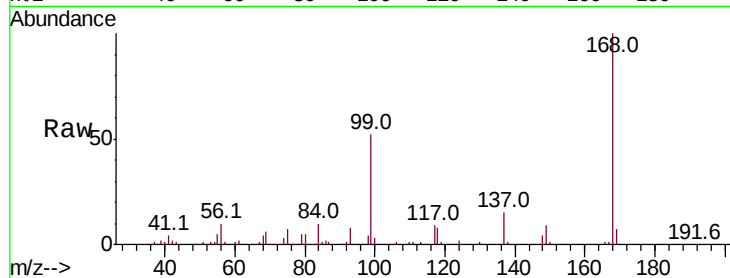
ClientSampleId :

LOQ-WATER-02-QT3-2019

Tot Ion:	56	Resp:	43054
Ion Ratio	Lower	Upper	
56	100		
69	57.8	26.3	39.5#
84	97.2	69.6	104.4

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#32

1,1,1-Trichloroethane

Concen: 4.710 ug/l

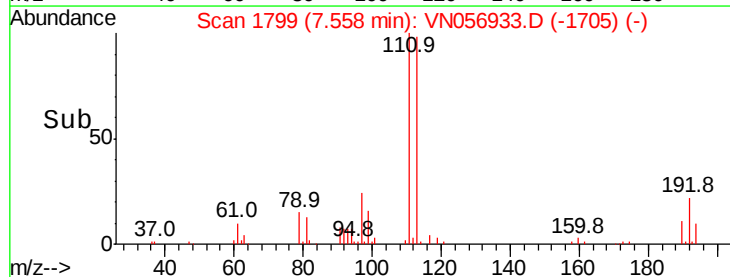
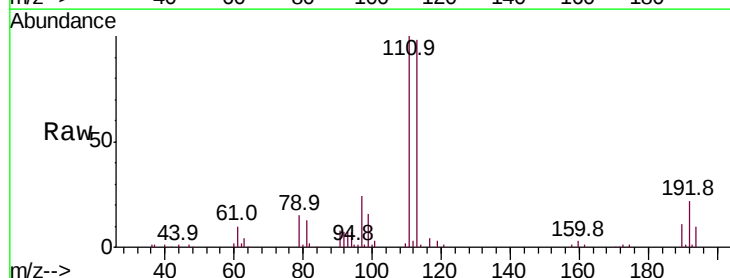
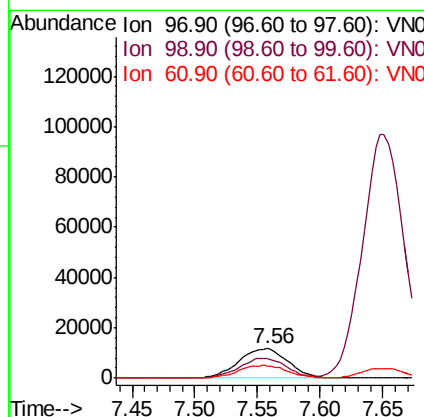
RT: 7.56 min Scan# 1799

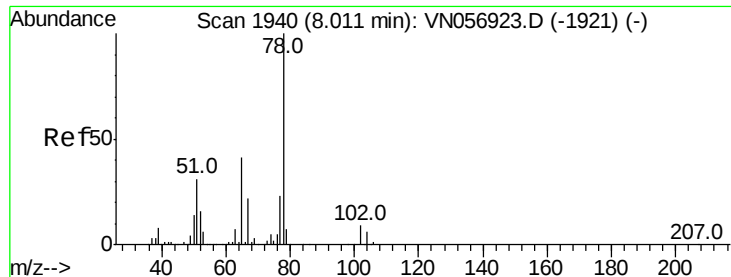
Delta R.T. 0.00 min

Lab File: VN056933.D

Acq: 25 Jul 2019 20:51

Tgt Ion:	97	Resp:	32225
Ion Ratio	Lower	Upper	
97	100		
99	66.0	51.6	77.4
61	42.5	33.8	50.6





#33

1,2-Dichloroethane-d4

Concen: 50.646 ug/l

RT: 8.01 min Scan# 1940

Delta R.T. -0.00 min

Lab File: VN056933.D

Acq: 25 Jul 2019 20:51

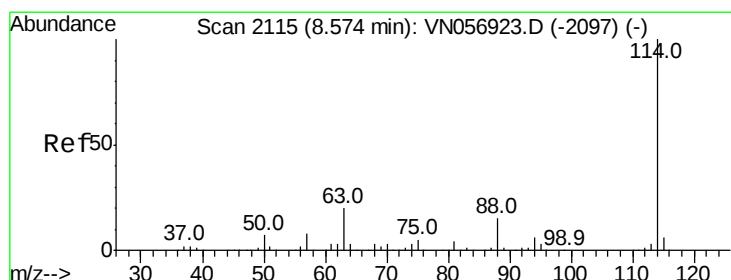
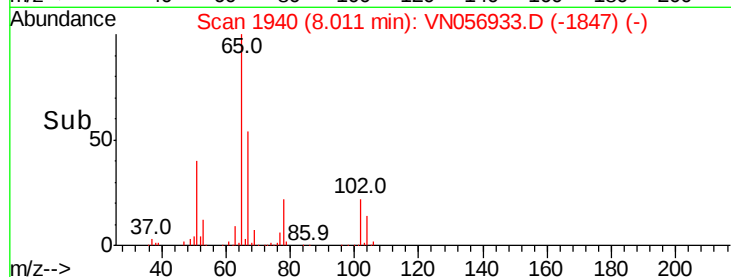
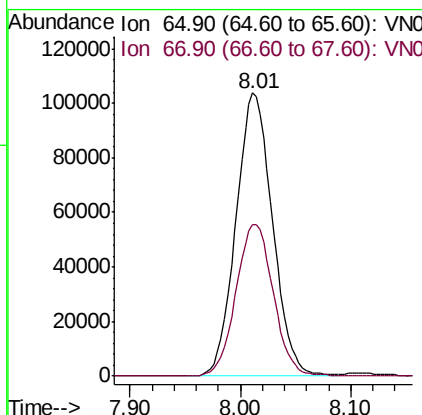
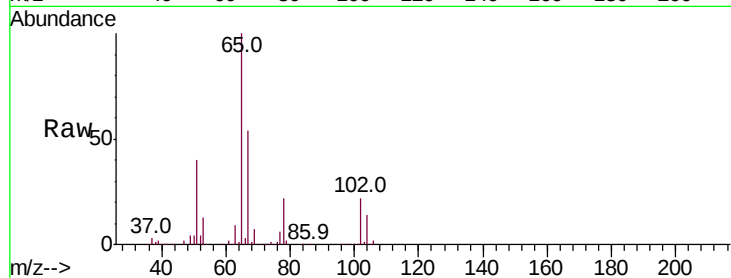
Instrument :
MSVOA_N

ClientSampleId :
LOQ-WATER-02-QT3-2019

Tot Ion	Ratio	Lower	Upper
65	100		
67	54.7	0.0	109.2

Manual Integrations
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#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

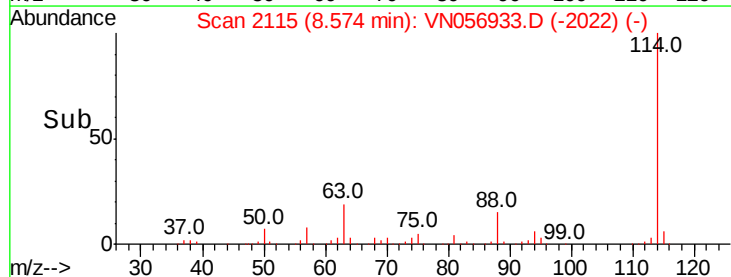
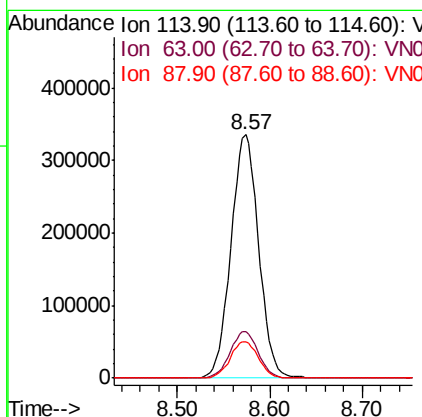
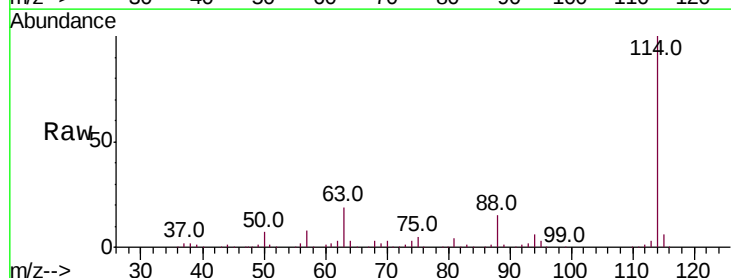
RT: 8.57 min Scan# 2115

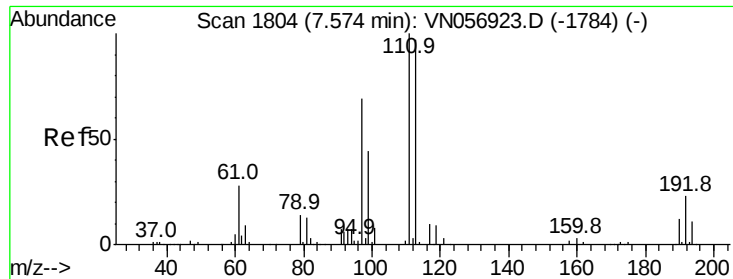
Delta R.T. -0.00 min

Lab File: VN056933.D

Acq: 25 Jul 2019 20:51

Tgt Ion	Ratio	Lower	Upper
114	100		
63	19.2	0.0	39.4
88	15.1	0.0	30.4





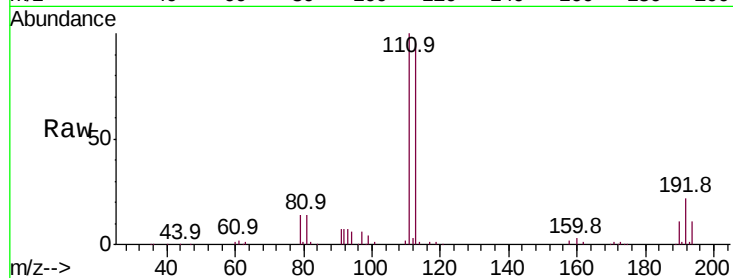
#35
 Dibromofluoromethane
 Concen: 48.007 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN056933.D
 Acq: 25 Jul 2019 20:51

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT3-2019

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	103.0	82.2	123.2	
192	23.5	18.3	27.5	

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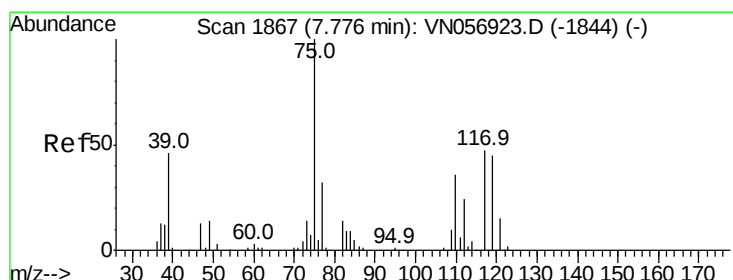
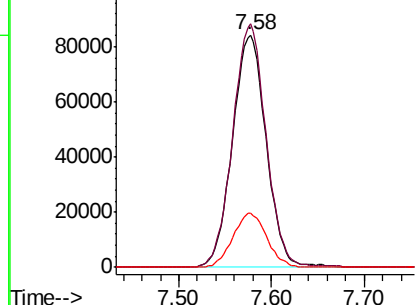
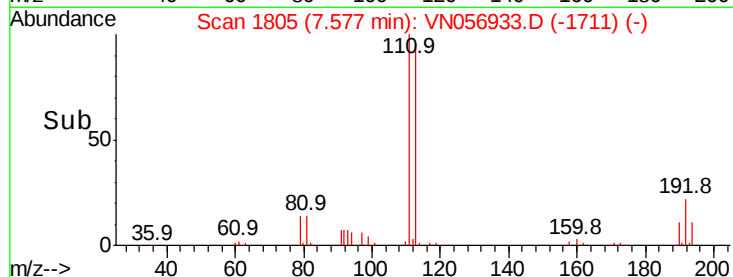


Abundance

Ion 112.80 (112.50 to 113.50): V

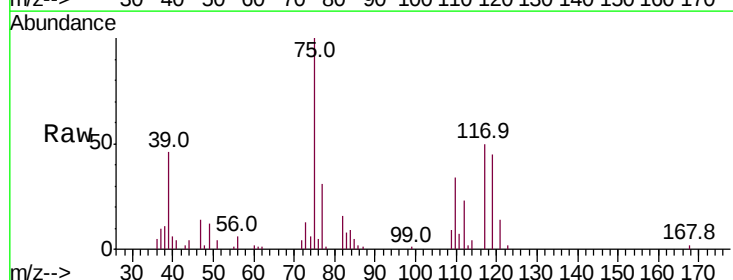
Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36
 1,1-Dichloropropene
 Concen: 4.736 ug/l
 RT: 7.78 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN056933.D
 Acq: 25 Jul 2019 20:51

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
110	34.5	18.9	56.9	
77	30.0	25.4	38.0	

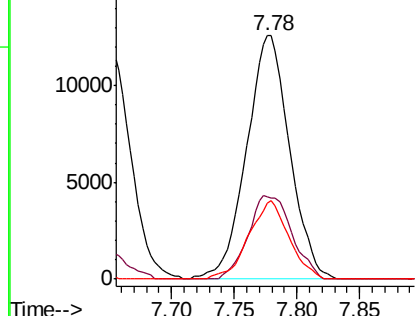
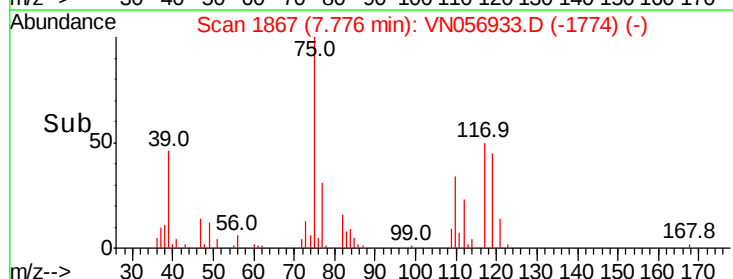


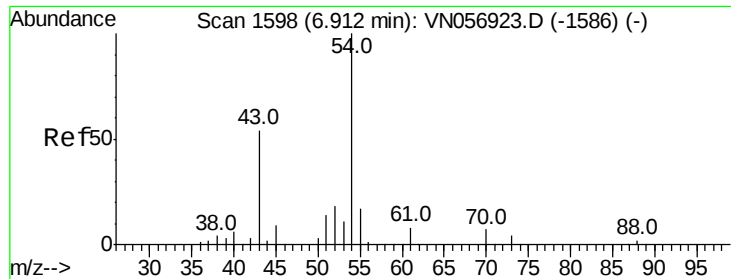
Abundance

Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





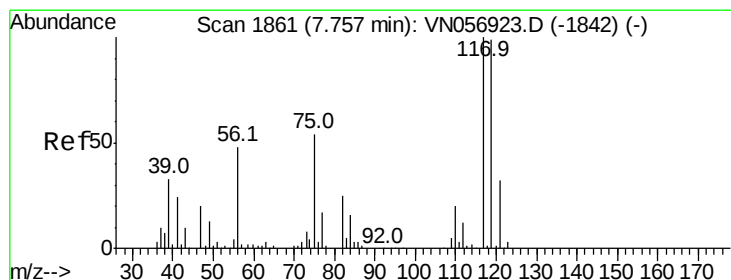
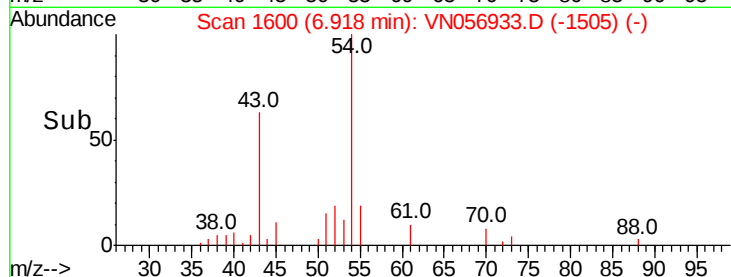
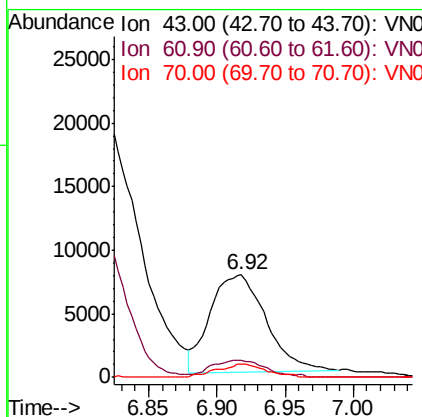
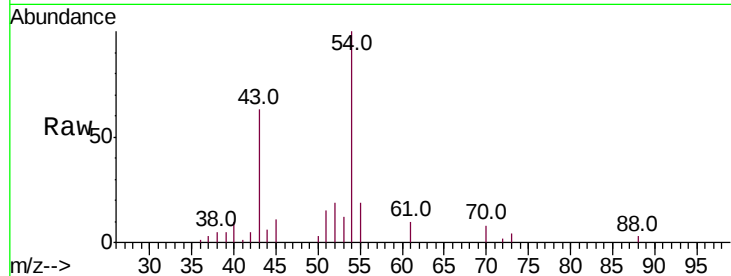
#37
Ethyl Acetate
Concen: 4.254 ug/l
RT: 6.92 min Scan# 1600
Delta R.T. 0.01 min
Lab File: VN056933.D
Acq: 25 Jul 2019 20:51

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT3-2019

Tot Ion	Ratio	Lower	Upper
43	100		
61	17.1	11.9	17.9
70	11.8	8.8	13.2

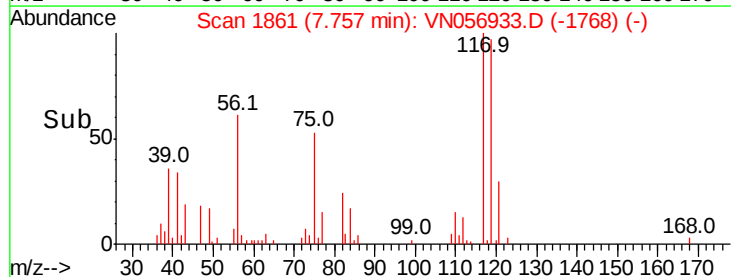
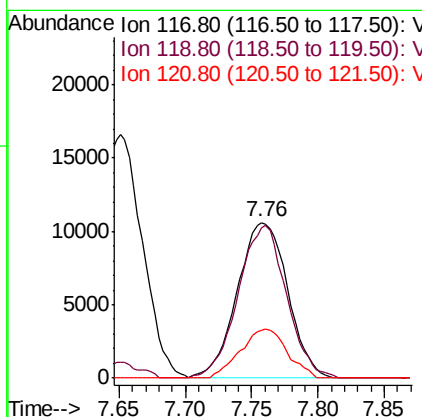
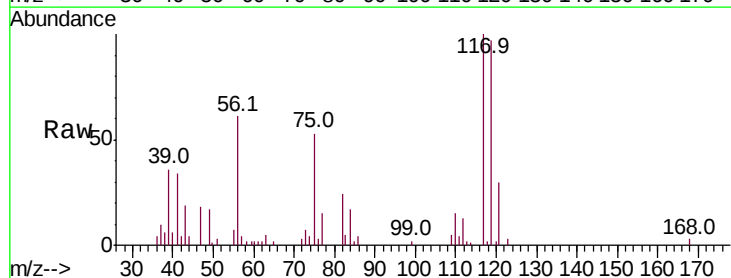
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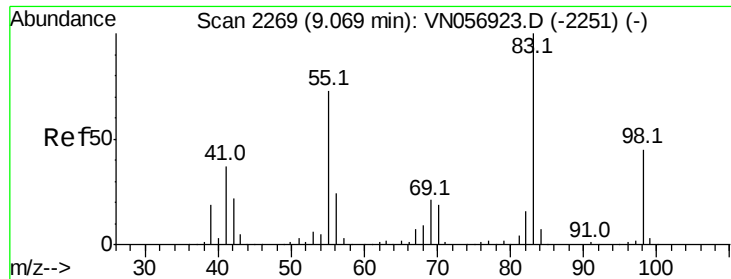
MMDadoda
7/26/2019 3:37:50 PM



#38
Carbon Tetrachloride
Concen: 4.633 ug/l
RT: 7.76 min Scan# 1861
Delta R.T. -0.00 min
Lab File: VN056933.D
Acq: 25 Jul 2019 20:51

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.7	79.0	118.6
121	30.5	25.1	37.7





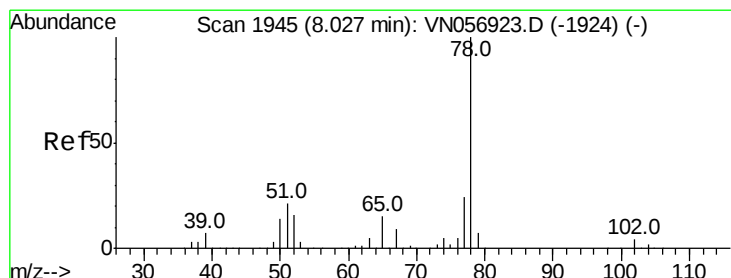
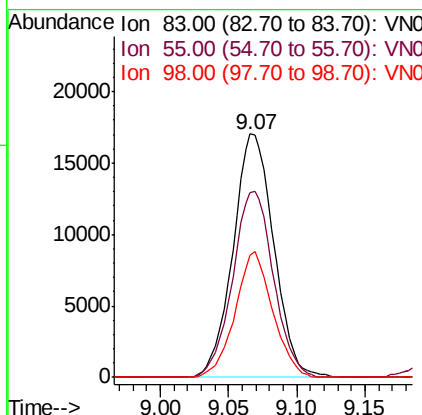
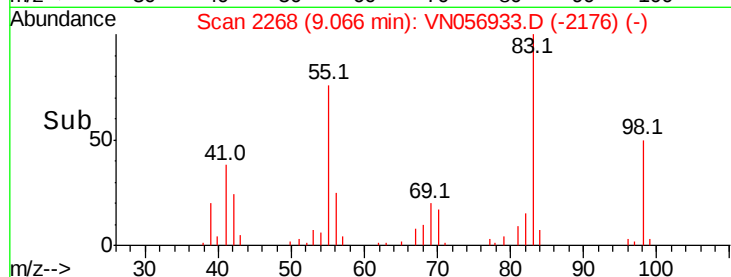
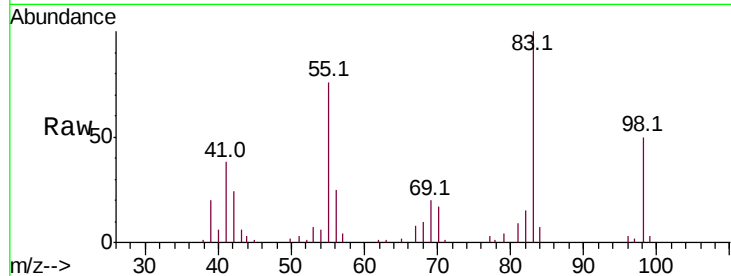
#39
Methvlcvclohexane
Concen: 4.555 ug/l
RT: 9.07 min Scan# 2268
Delta R.T. -0.00 min
Lab File: VN056933.D
Acq: 25 Jul 2019 20:51

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT3-2019

Tot Ion: 83 Resp: 35257
Ion Ratio Lower Upper
83 100
55 75.7 58.8 88.2
98 50.3 35.8 53.6

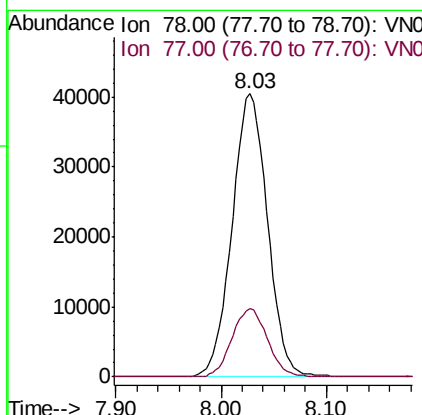
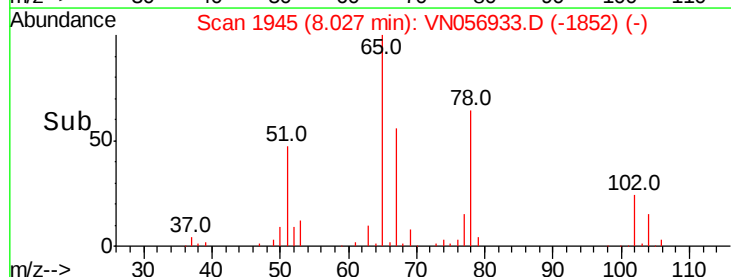
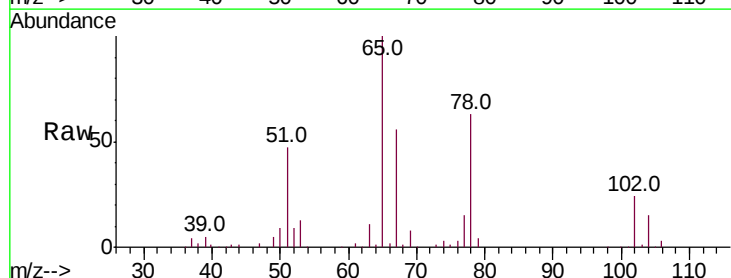
Manual Integrations
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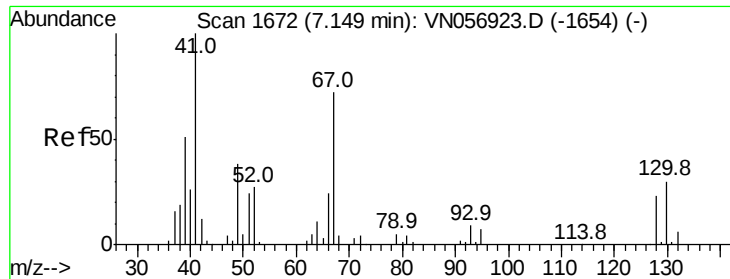
MMDadoda
7/26/2019 3:37:50 PM



#40
Benzene
Concen: 4.765 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. -0.00 min
Lab File: VN056933.D
Acq: 25 Jul 2019 20:51

Tgt Ion: 78 Resp: 94374
Ion Ratio Lower Upper
78 100
77 24.1 19.5 29.3





#41

Methacrylonitrile

Concen: 4.049 ug/l

RT: 7.16 min Scan# 1675

Delta R.T. 0.01 min

Lab File: VN056933.D

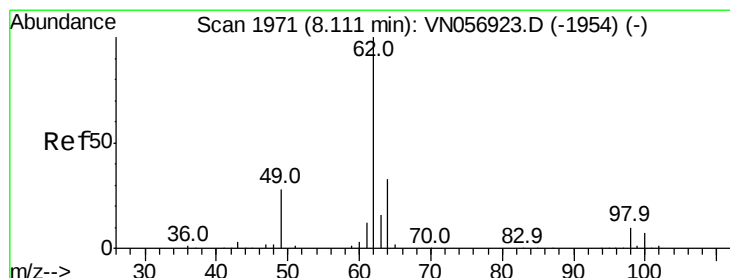
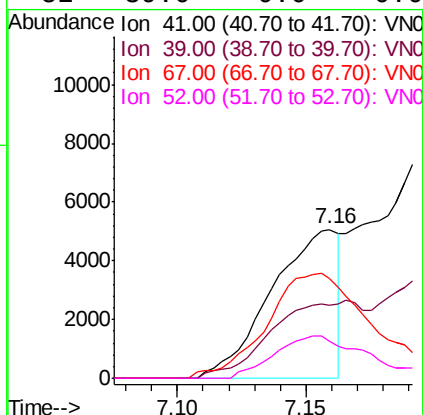
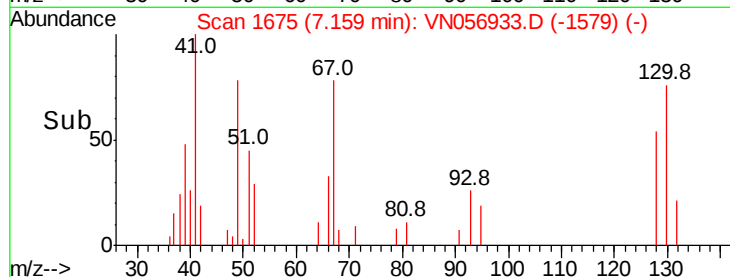
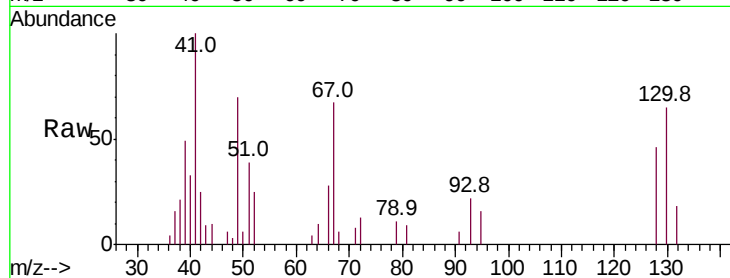
Acq: 25 Jul 2019 20:51

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT3-2019

Tot Ion	Ratio	Lower	Upper
41	100		
39	73.4	0.0	0.0#
67	108.9	0.0	0.0#
52	39.0	0.0	0.0#

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7/26/2019 3:37:50 PM



#42

1,2-Dichloroethane

Concen: 4.967 ug/l

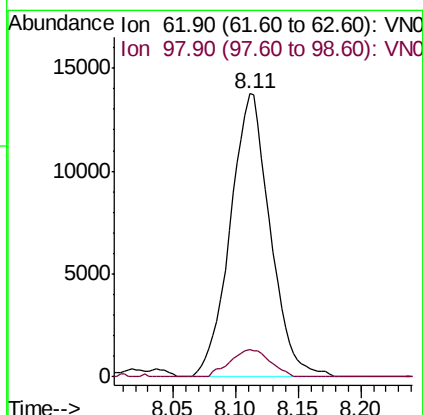
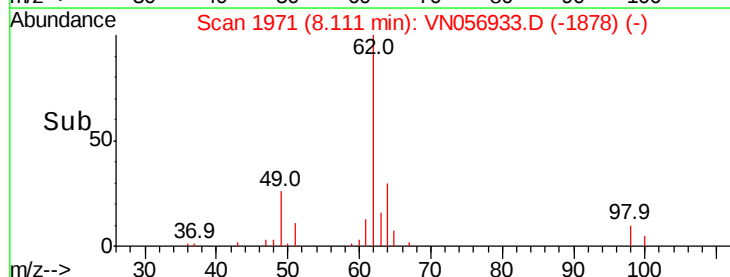
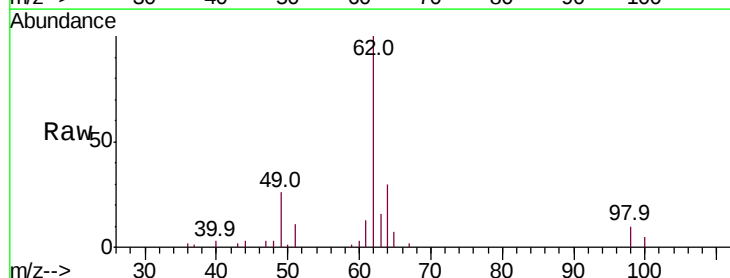
RT: 8.11 min Scan# 1971

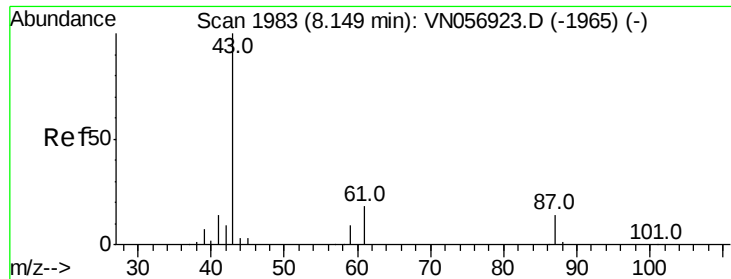
Delta R.T. -0.00 min

Lab File: VN056933.D

Acq: 25 Jul 2019 20:51

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.7	0.0	20.8





#43

Isopropyl Acetate

Concen: 4.578 ug/l

RT: 8.15 min Scan# 1984

Delta R.T. 0.00 min

Lab File: VN056933.D

Acq: 25 Jul 2019 20:51

Instrument :

MSVOA_N

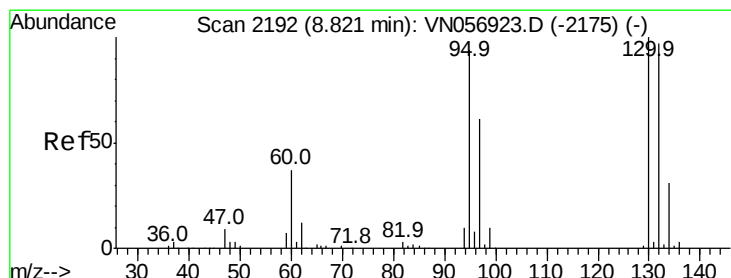
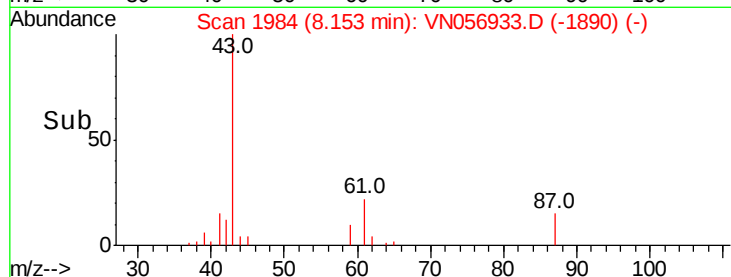
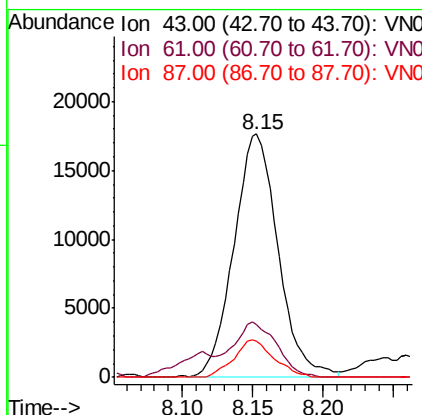
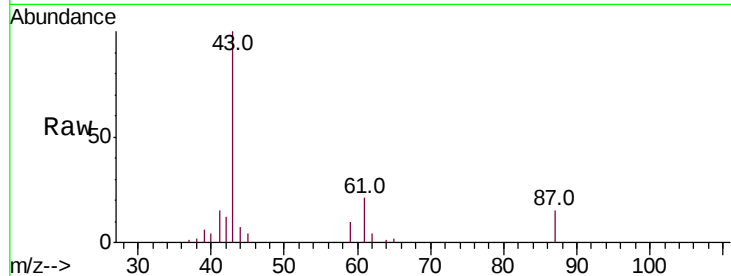
ClientSampleId :

LOQ-WATER-02-QT3-2019

Tot Ion:	43	Resp:	38758
Ion Ratio	Lower	Upper	
43	100		
61	22.5	23.8	35.6#
87	13.8	11.8	17.6

Manual Integrations
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#44

Trichloroethene

Concen: 4.446 ug/l

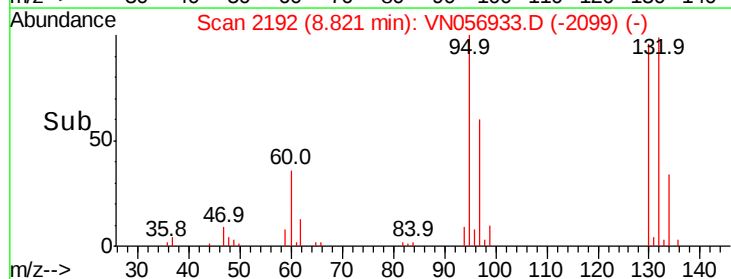
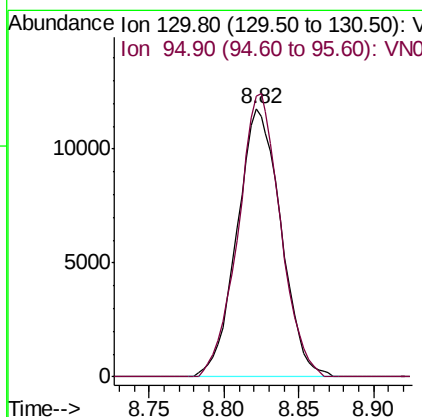
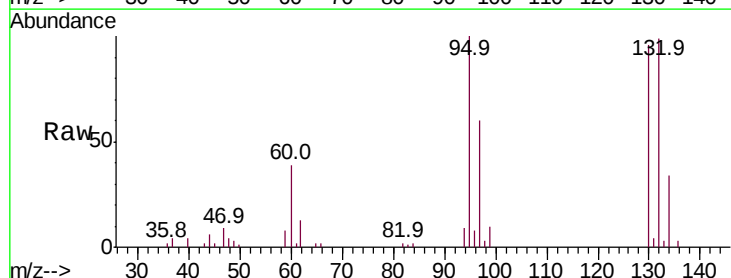
RT: 8.82 min Scan# 2192

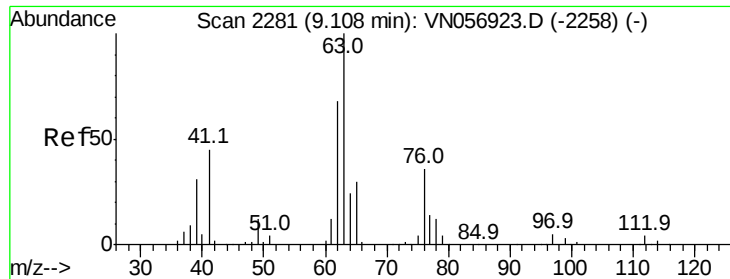
Delta R.T. -0.00 min

Lab File: VN056933.D

Acq: 25 Jul 2019 20:51

Tgt Ion:	130	Resp:	24022
Ion Ratio	Lower	Upper	
130	100		
95	104.5	0.0	187.6





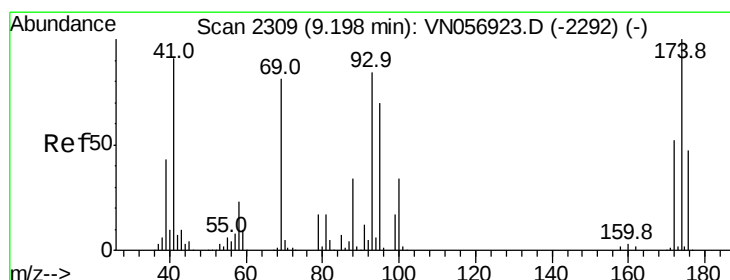
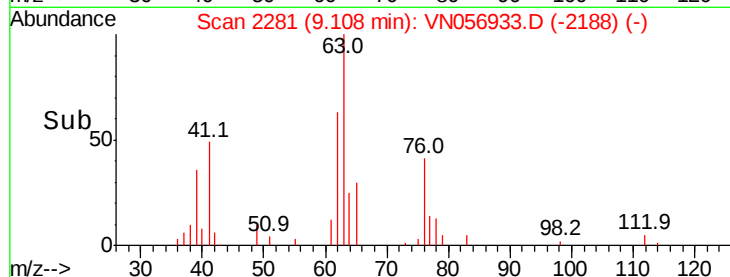
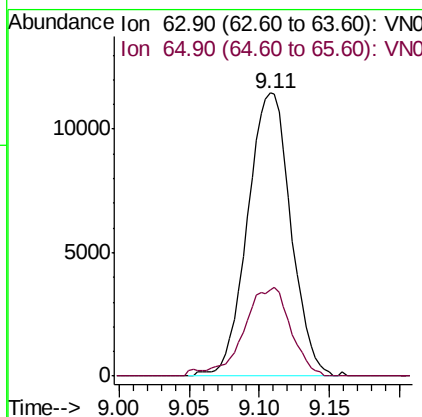
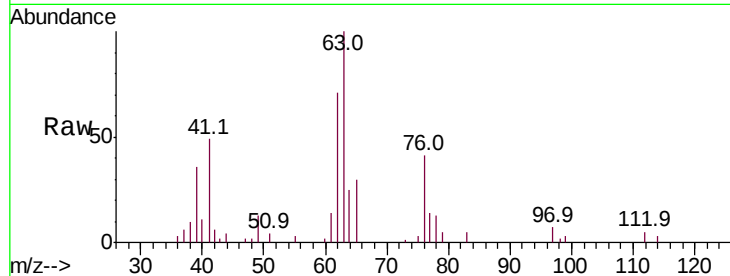
#45
 1,2-Dichloropropane
 Concen: 4.627 ug/l
 RT: 9.11 min Scan# 2281
 Delta R.T. -0.00 min
 Lab File: VN056933.D
 Acq: 25 Jul 2019 20:51

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT3-2019

Tot Ion: 63 Resp: 24629
 Ion Ratio Lower Upper
 63 100
 65 30.4 24.5 36.7

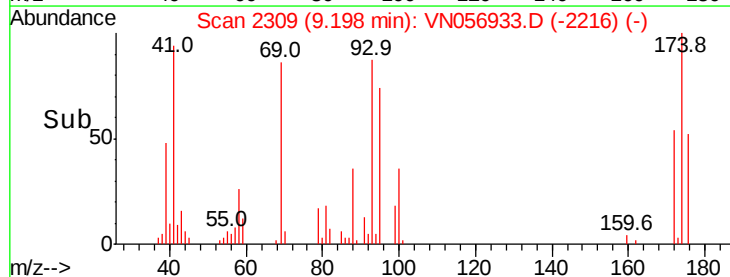
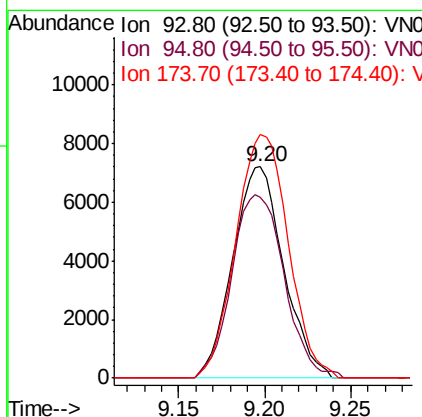
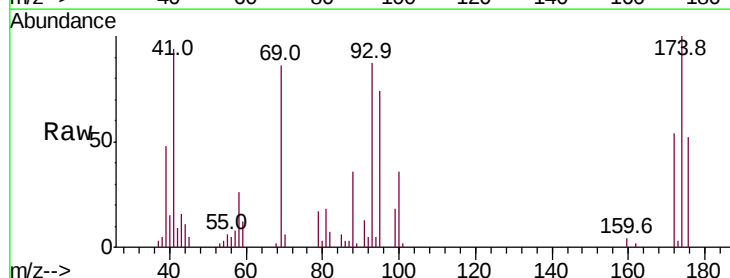
Manual Integrations
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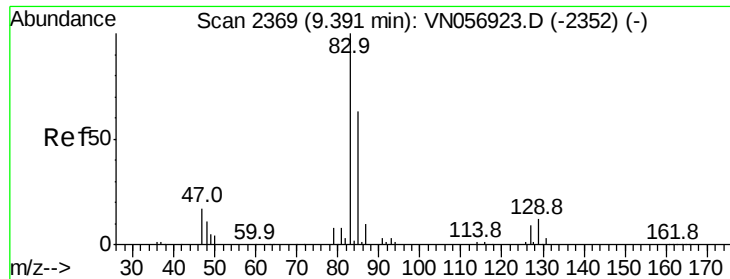
MMDadoda
 7/26/2019 3:37:50 PM



#46
 Dibromomethane
 Concen: 4.616 ug/l
 RT: 9.20 min Scan# 2309
 Delta R.T. -0.00 min
 Lab File: VN056933.D
 Acq: 25 Jul 2019 20:51

Tgt Ion: 93 Resp: 14811
 Ion Ratio Lower Upper
 93 100
 95 89.7 66.8 100.2
 174 118.9 92.9 139.3





#47

Bromodichloromethane

Concen: 4.566 ug/l

RT: 9.39 min Scan# 2370

Delta R.T. 0.00 min

Lab File: VN056933.D

Acq: 25 Jul 2019 20:51

Instrument :

MSVOA_N

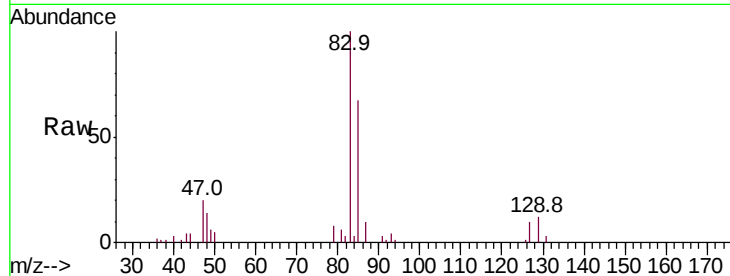
ClientSampleId :

LOQ-WATER-02-QT3-2019

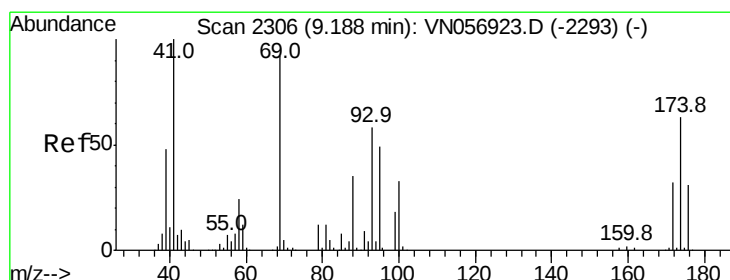
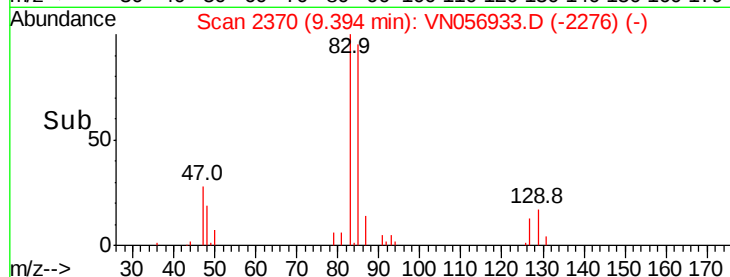
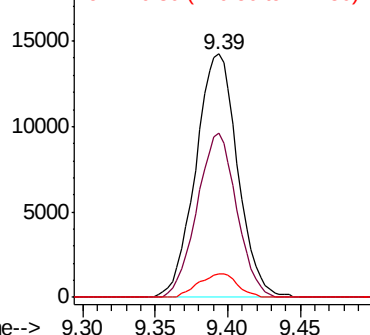
Tot Ion:	83	Resp:	28611
Ion Ratio	Lower	Upper	
83	100		
85	67.5	50.5	75.7
127	9.5	7.4	11.0

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Abundance Ion 82.90 (82.60 to 83.60): VN056933.D (-2352) (-)



#48

Methyl methacrylate

Concen: 4.743 ug/l

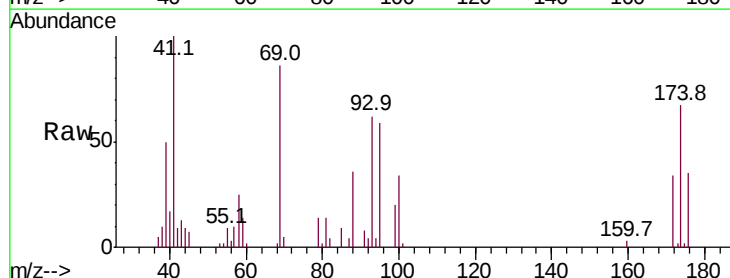
RT: 9.19 min Scan# 2306

Delta R.T. -0.00 min

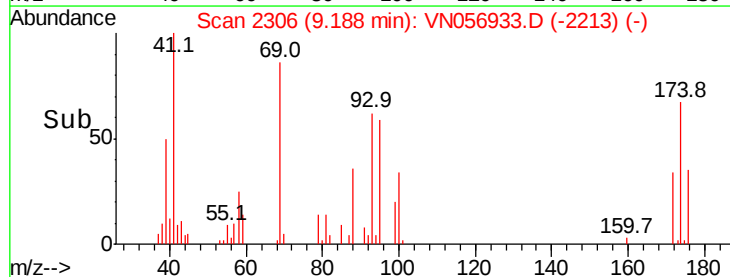
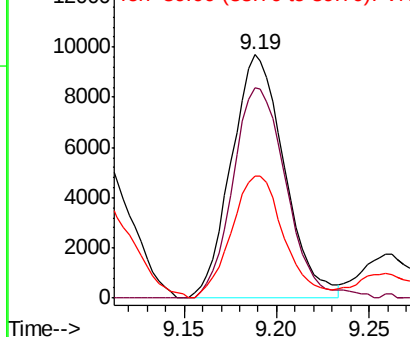
Lab File: VN056933.D

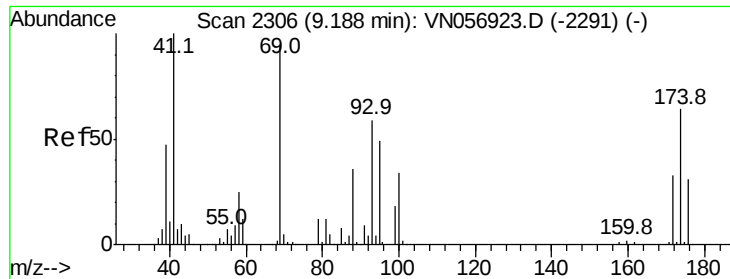
Acq: 25 Jul 2019 20:51

Tgt Ion:	41	Resp:	19280
Ion Ratio	Lower	Upper	
41	100		
69	87.0	73.4	110.0
39	49.7	40.1	60.1



Abundance Ion 41.00 (40.70 to 41.70): VN056933.D (-2293) (-)





#49

1,4-Dioxane

Concen: 86.524 ug/l

RT: 9.19 min Scan# 2307

Delta R.T. 0.00 min

Lab File: VN056933.D

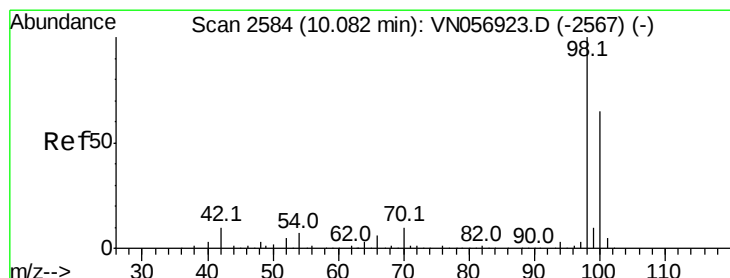
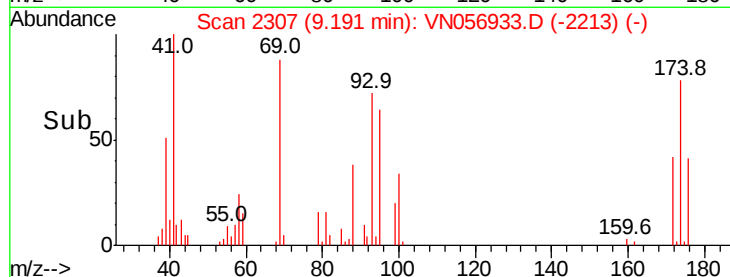
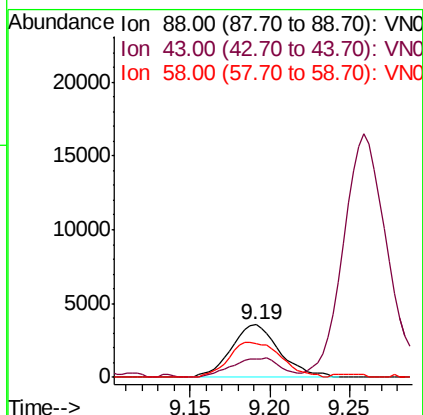
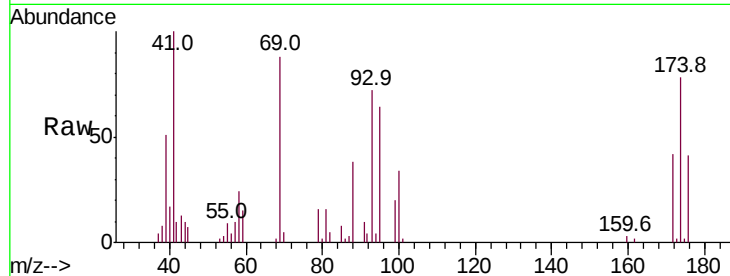
Acq: 25 Jul 2019 20:51

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT3-2019

Tot Ion	Ratio	Lower	Upper
88	100		
43	37.4	21.1	31.7#
58	71.7	52.5	78.7

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#50

Toluene-d8

Concen: 47.641 ug/l

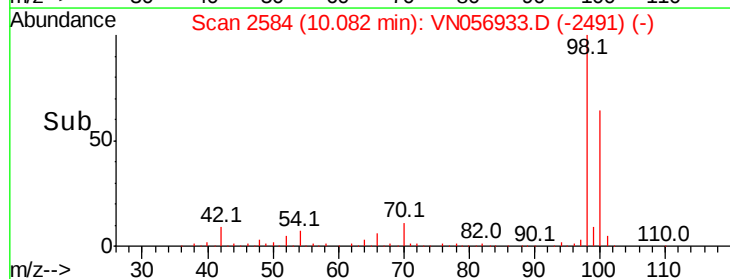
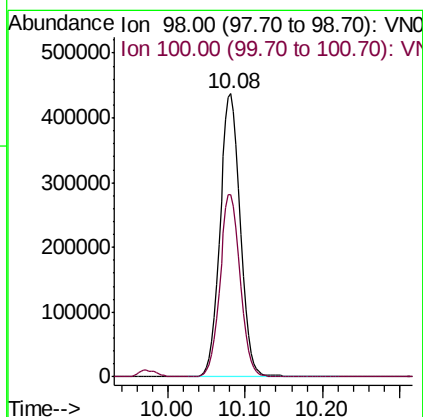
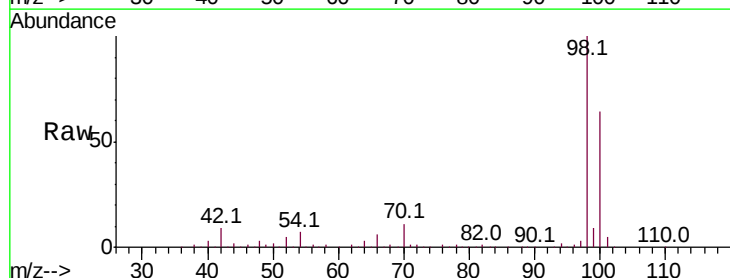
RT: 10.08 min Scan# 2584

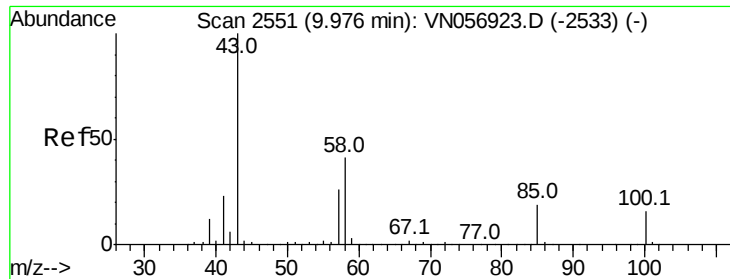
Delta R.T. -0.00 min

Lab File: VN056933.D

Acq: 25 Jul 2019 20:51

Tgt Ion	Ratio	Lower	Upper
98	100		
100	63.9	51.4	77.2





#51

4-Methyl-2-Pentanone

Concen: 23.122 ug/l

RT: 9.98 min Scan# 2551

Delta R.T. -0.00 min

Lab File: VN056933.D

Acq: 25 Jul 2019 20:51

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT3-2019

Tot Ion: 43 Resp: 116400

Ion Ratio Lower Upper

43 100

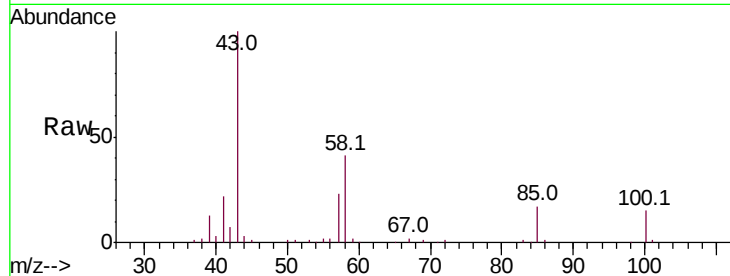
58 39.3 32.8 49.2

Manual Integrations

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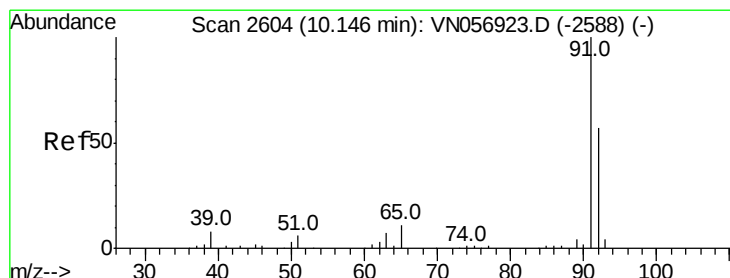
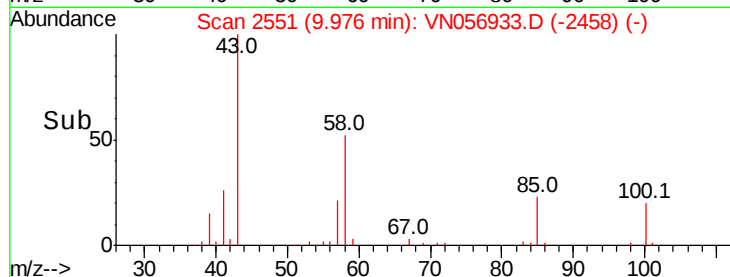
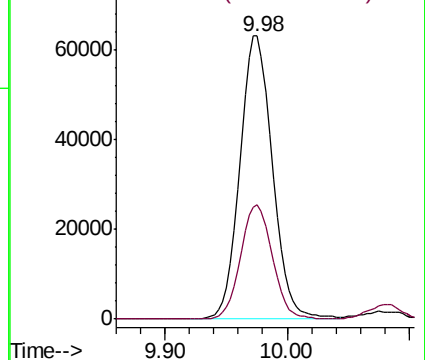
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Abundance Ion 43.00 (42.70 to 43.70): VN056933.D (-2533) (-)

Ion 58.00 (57.70 to 58.70): VN056933.D (-2533) (-)



#52

Toluene

Concen: 4.747 ug/l

RT: 10.15 min Scan# 2604

Delta R.T. -0.00 min

Lab File: VN056933.D

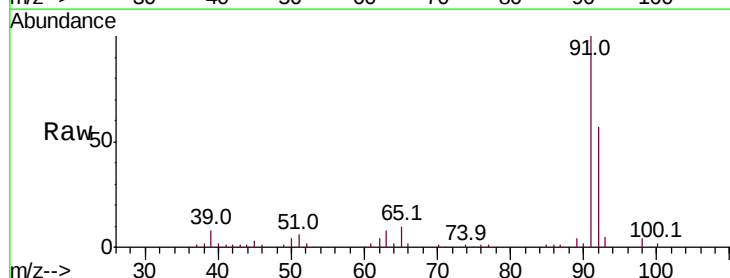
Acq: 25 Jul 2019 20:51

Tgt Ion: 92 Resp: 56387

Ion Ratio Lower Upper

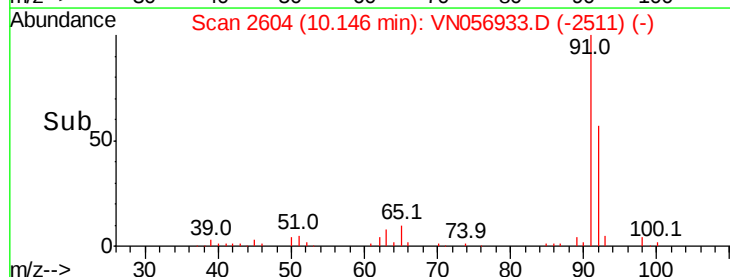
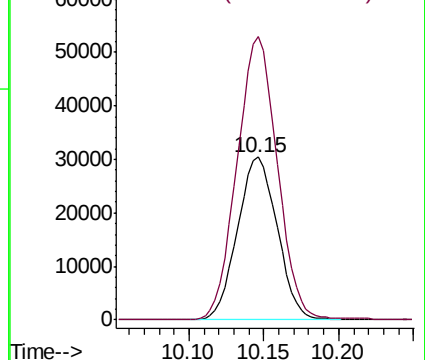
92 100

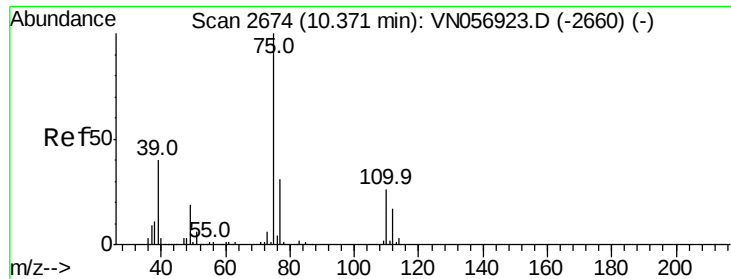
91 176.2 139.8 209.6



Abundance Ion 92.00 (91.70 to 92.70): VN056933.D (-2588) (-)

Ion 91.00 (90.70 to 91.70): VN056933.D (-2588) (-)





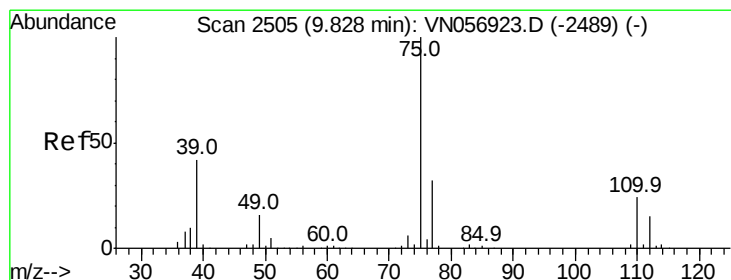
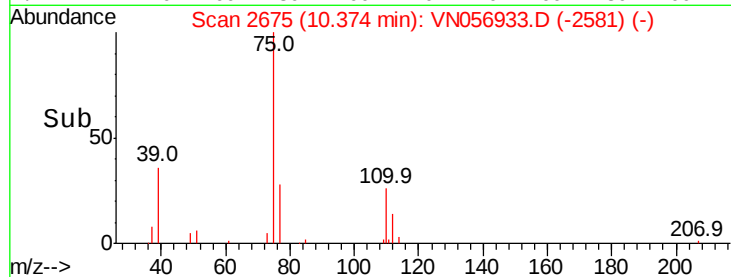
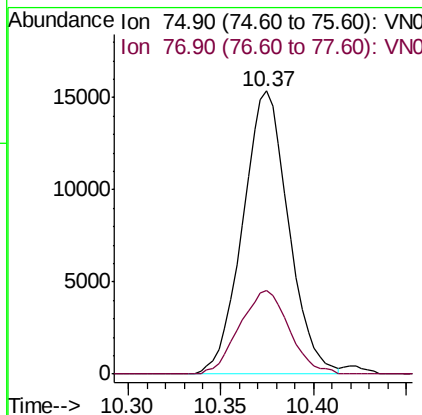
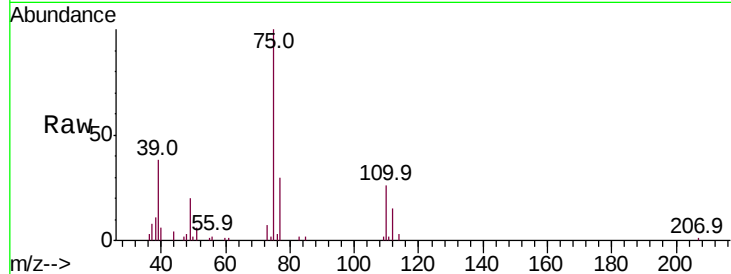
#53
 t-1,3-Dichloropropene
 Concen: 4.163 ug/l
 RT: 10.37 min Scan# 2675
 Delta R.T. 0.00 min
 Lab File: VN056933.D
 Acq: 25 Jul 2019 20:51

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT3-2019

Tot Ion: 75 Resp: 26298
 Ion Ratio Lower Upper
 75 100
 77 29.6 25.0 37.6

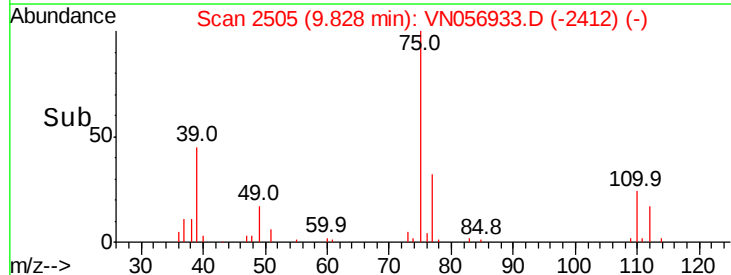
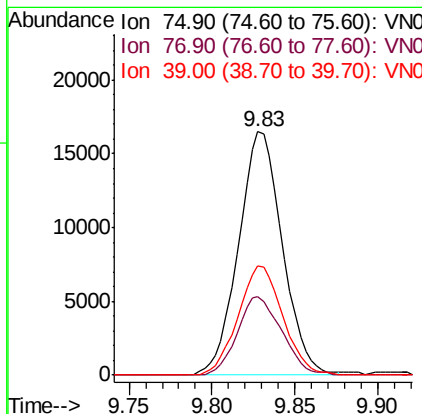
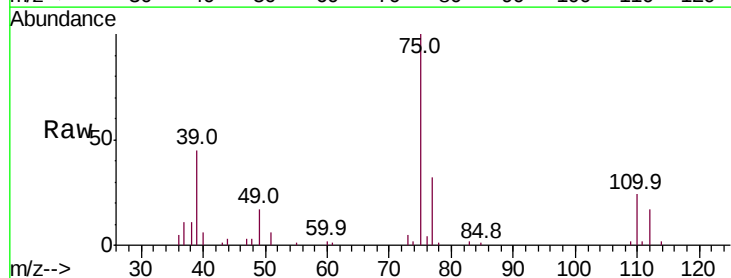
Manual Integrations
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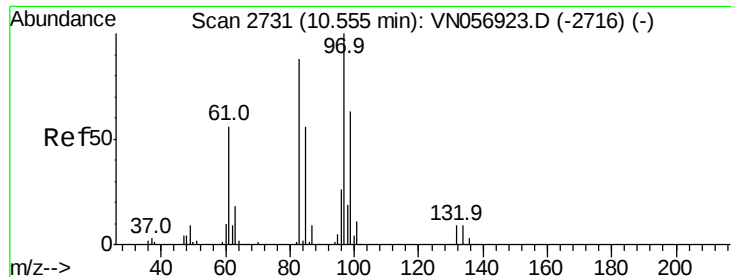
MMDadoda
 7/26/2019 3:37:50 PM



#54
 cis-1,3-Dichloropropene
 Concen: 4.069 ug/l
 RT: 9.83 min Scan# 2505
 Delta R.T. -0.00 min
 Lab File: VN056933.D
 Acq: 25 Jul 2019 20:51

Tgt Ion: 75 Resp: 30264
 Ion Ratio Lower Upper
 75 100
 77 32.2 25.4 38.0
 39 44.7 33.4 50.0





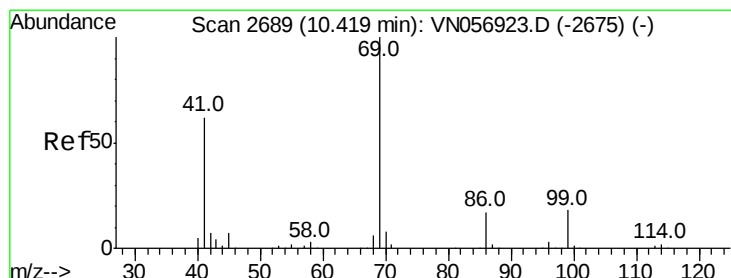
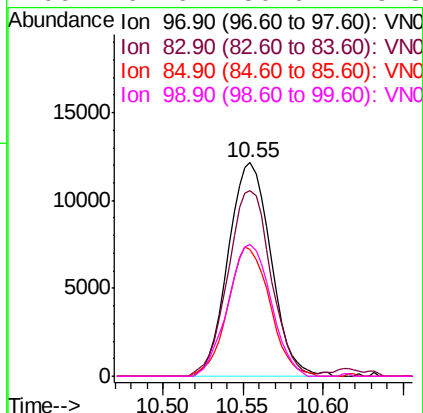
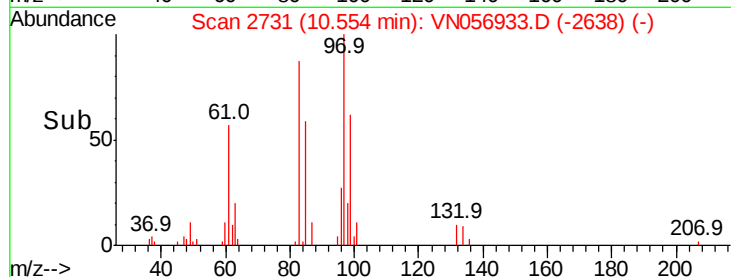
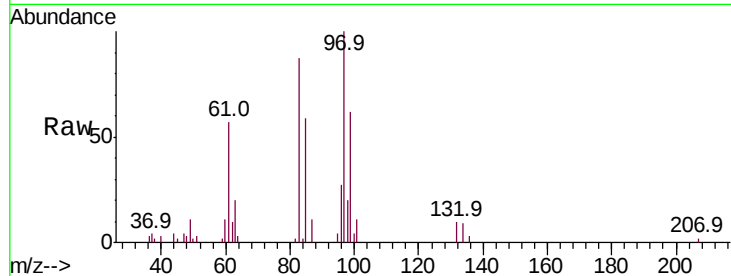
#55
1,1,2-Trichloroethane
Concen: 4.644 ug/l
RT: 10.55 min Scan# 2731
Delta R.T. -0.00 min
Lab File: VN056933.D
Acq: 25 Jul 2019 20:51

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT3-2019

Tot Ion	97	Resp	22109
Ion	Ratio	Lower	Upper
97	100		
83	87.0	70.1	105.1
85	59.2	45.1	67.7
99	61.6	50.6	75.8

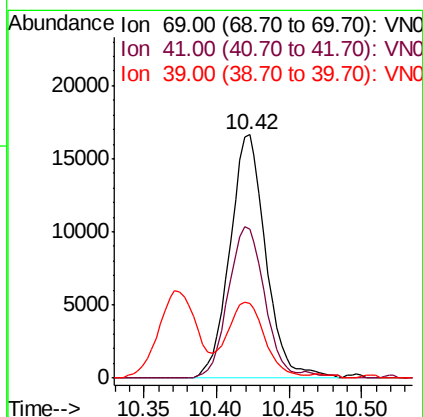
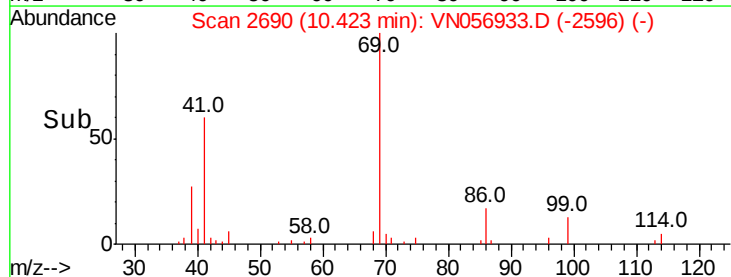
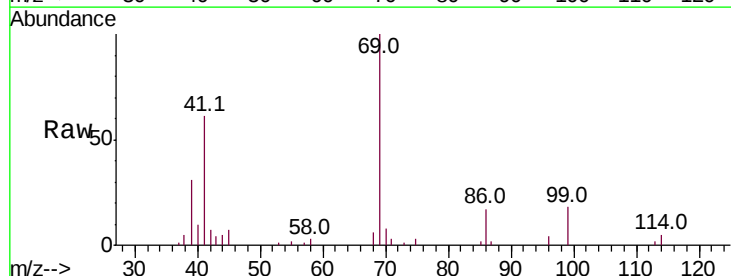
Manual Integrations
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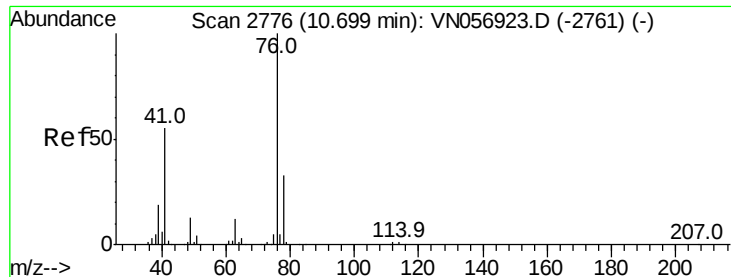
MMDadoda
7/26/2019 3:37:50 PM



#56
Ethyl methacrylate
Concen: 4.481 ug/l
RT: 10.42 min Scan# 2690
Delta R.T. 0.00 min
Lab File: VN056933.D
Acq: 25 Jul 2019 20:51

Tgt Ion	69	Resp	28680
Ion	Ratio	Lower	Upper
69	100		
41	62.5	49.7	74.5
39	33.0	23.6	35.4





#57

1,3-Dichloropropane

Concen: 4.795 ug/l

RT: 10.70 min Scan# 2776

Delta R.T. -0.00 min

Lab File: VN056933.D

Acq: 25 Jul 2019 20:51

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT3-2019

Tot Ion: 76 Resp: 37357

Ion Ratio Lower Upper

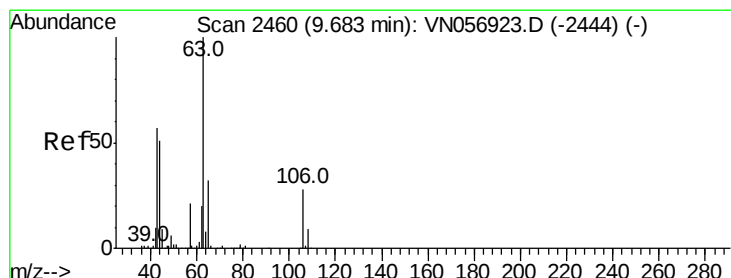
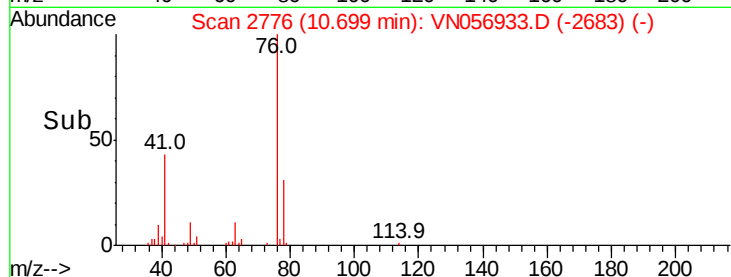
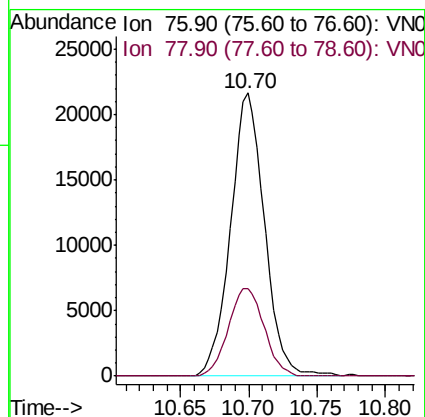
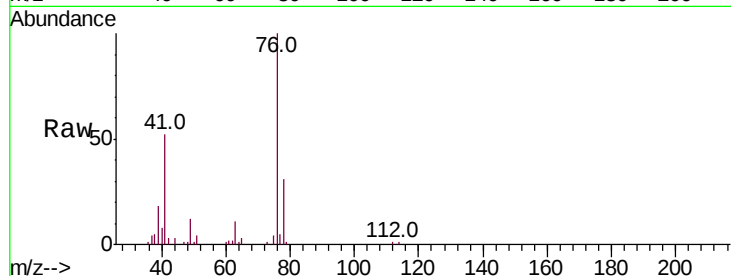
76 100

78 32.5 25.8 38.8

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#58

2-Chloroethyl Vinyl ether

Concen: 21.066 ug/l

RT: 9.69 min Scan# 2461

Delta R.T. 0.00 min

Lab File: VN056933.D

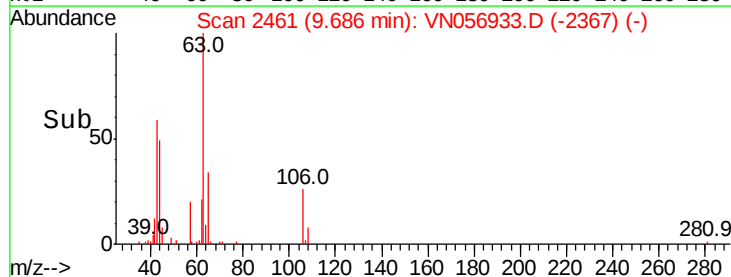
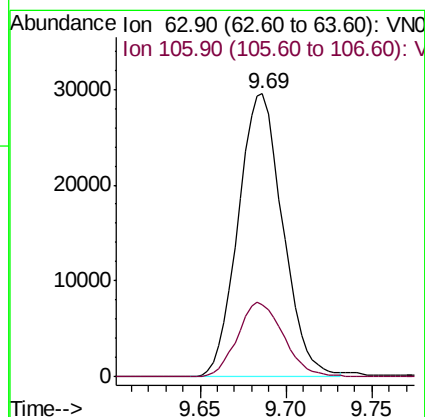
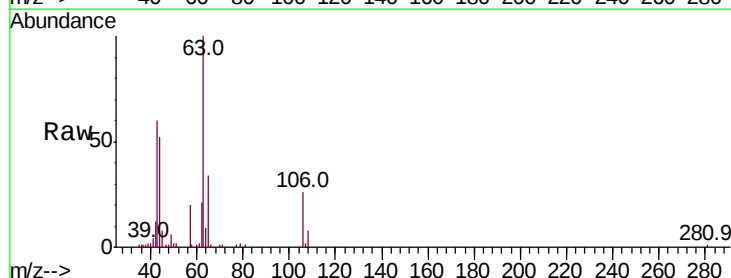
Acq: 25 Jul 2019 20:51

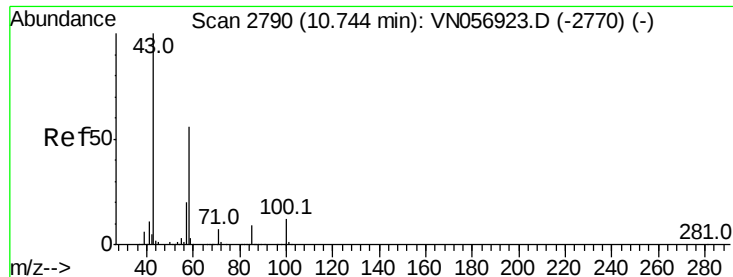
Tgt Ion: 63 Resp: 53145

Ion Ratio Lower Upper

63 100

106 27.1 22.2 33.4





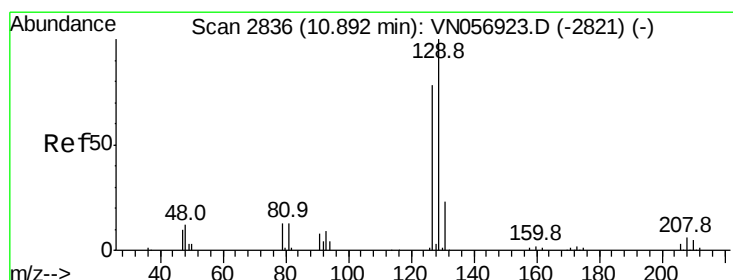
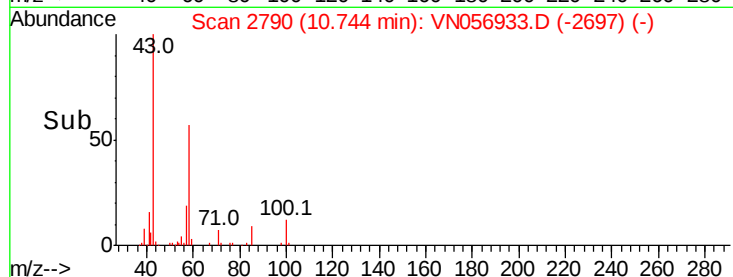
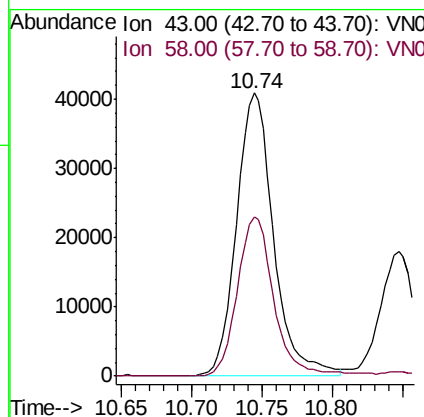
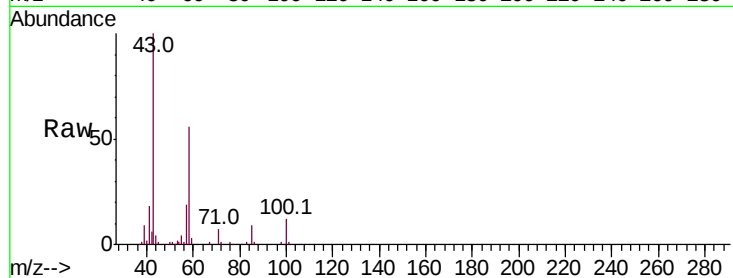
#59
2-Hexanone
Concen: 21.810 ug/l
RT: 10.74 min Scan# 2790
Delta R.T. -0.00 min
Lab File: VN056933.D
Acq: 25 Jul 2019 20:51

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT3-2019

Tot Ion: 43 Resp: 75270
Ion Ratio Lower Upper
43 100
58 55.8 28.2 84.6

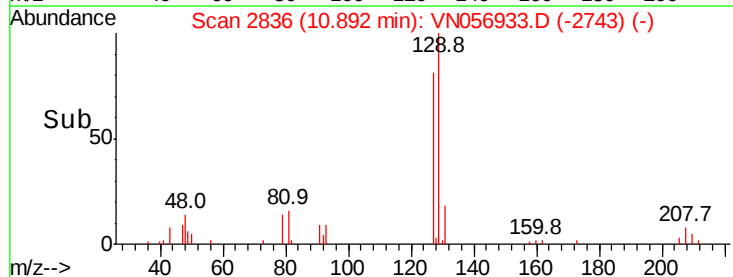
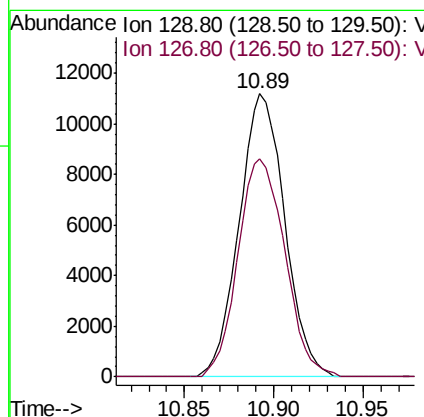
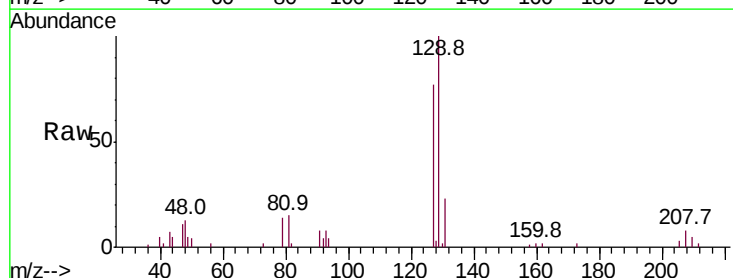
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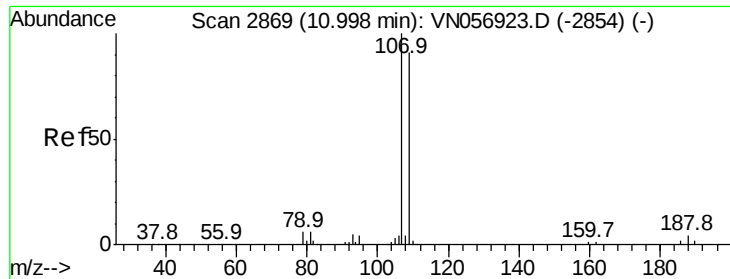
MMDadoda
7/26/2019 3:37:50 PM



#60
Dibromochloromethane
Concen: 4.123 ug/l
RT: 10.89 min Scan# 2836
Delta R.T. -0.00 min
Lab File: VN056933.D
Acq: 25 Jul 2019 20:51

Tgt Ion: 129 Resp: 19940
Ion Ratio Lower Upper
129 100
127 79.1 38.4 115.2





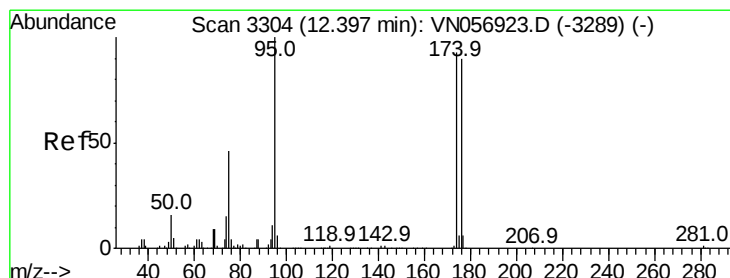
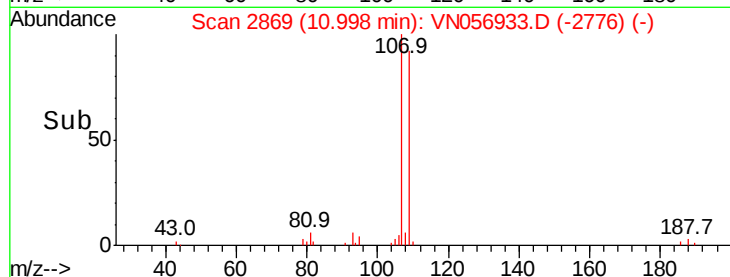
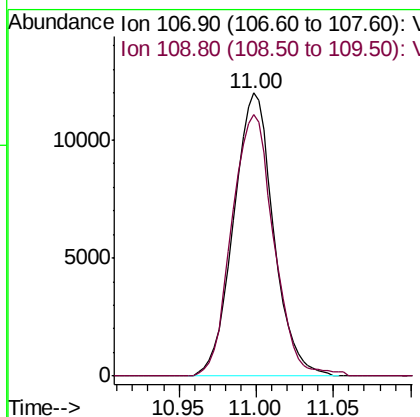
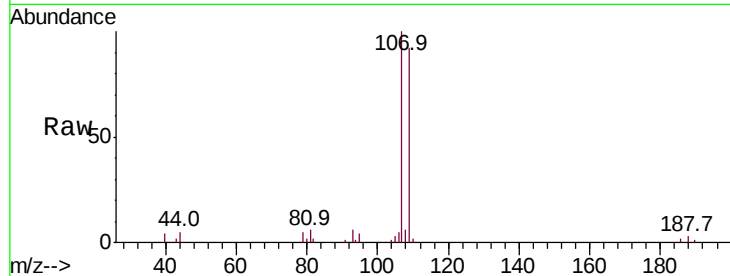
#61
1,2-Dibromoethane
Concen: 4.559 ug/l
RT: 11.00 min Scan# 2869
Delta R.T. -0.00 min
Lab File: VN056933.D
Acq: 25 Jul 2019 20:51

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT3-2019

Tot Ion	Ratio	Lower	Upper
107	100		
109	96.8	74.8	112.2

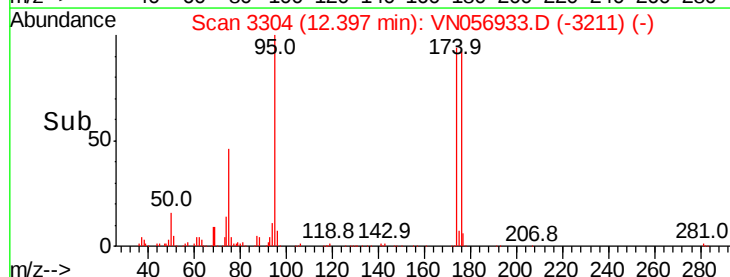
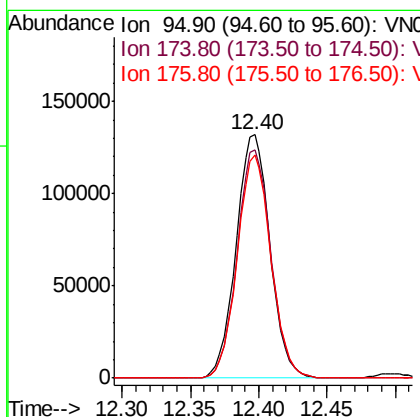
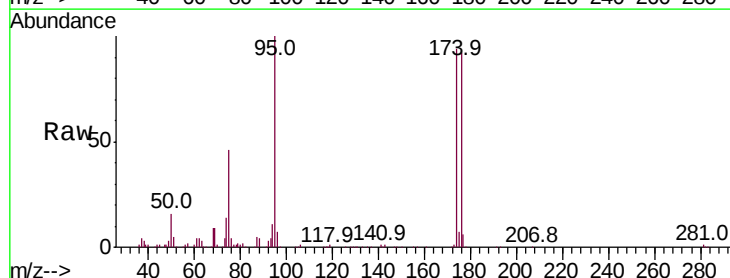
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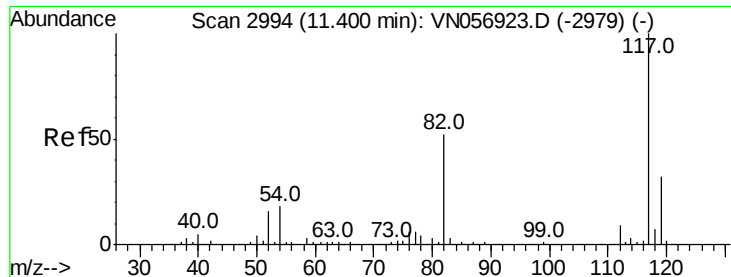
MMDadoda
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#62
4-Bromofluorobenzene
Concen: 41.319 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. -0.00 min
Lab File: VN056933.D
Acq: 25 Jul 2019 20:51

Tgt Ion	Ratio	Lower	Upper
95	100		
174	93.5	0.0	186.2
176	91.2	0.0	179.6





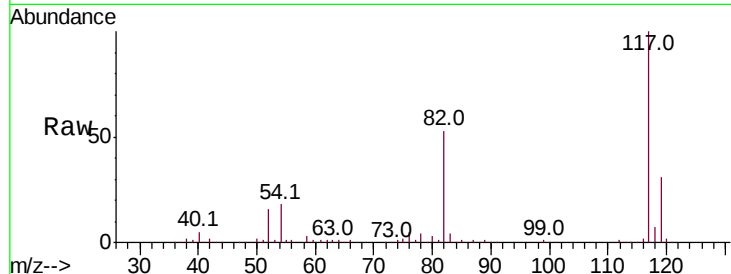
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. -0.00 min
Lab File: VN056933.D
Acq: 25 Jul 2019 20:51

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT3-2019

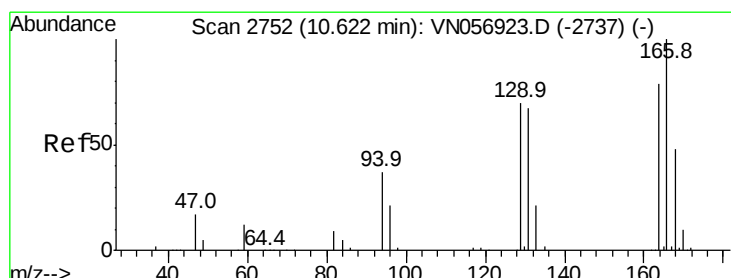
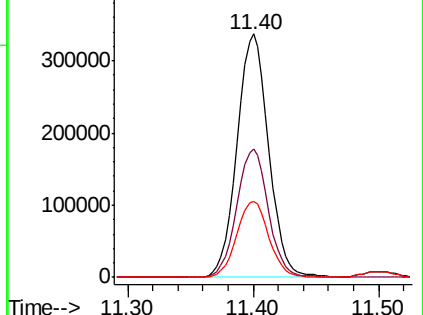
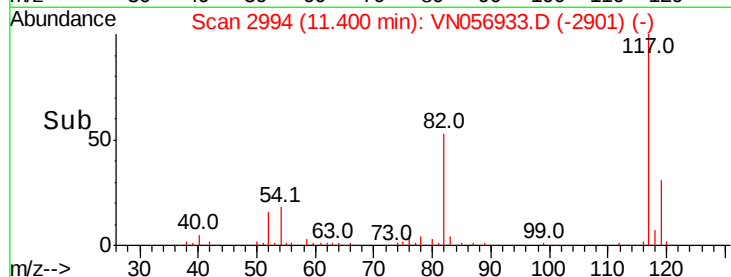
Tot Ion:117 Resp: 590166
Ion Ratio Lower Upper
117 100
82 52.6 41.7 62.5
119 31.4 25.5 38.3

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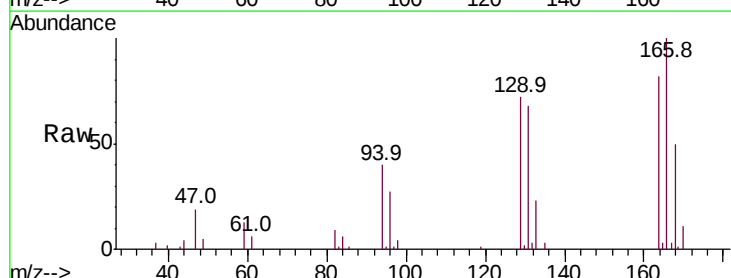


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

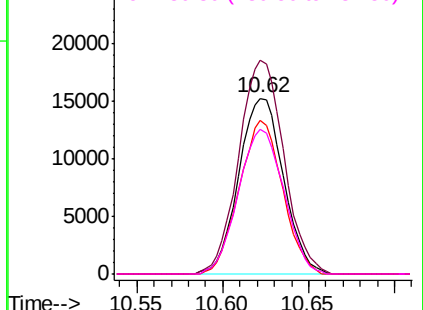
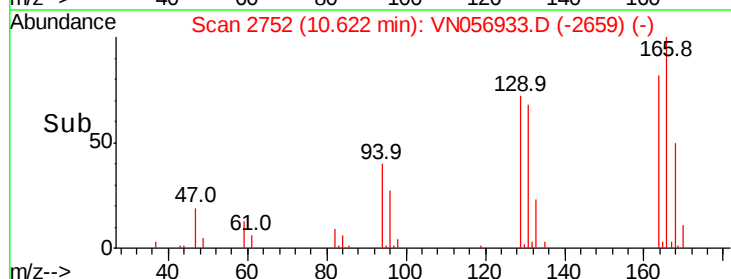


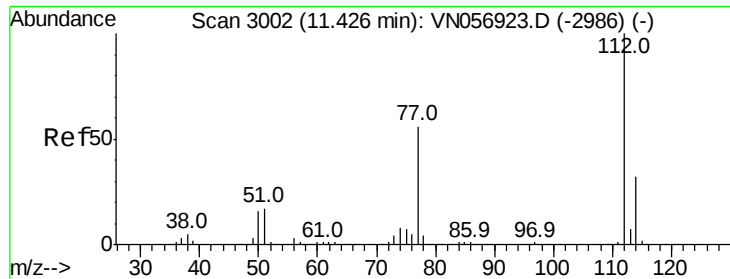
#64
Tetrachloroethene
Concen: 5.093 ug/l
RT: 10.62 min Scan# 2752
Delta R.T. -0.00 min
Lab File: VN056933.D
Acq: 25 Jul 2019 20:51

Tgt Ion:164 Resp: 27456
Ion Ratio Lower Upper
164 100
166 121.7 101.6 152.4
129 87.8 70.9 106.3
131 82.6 68.4 102.6



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V





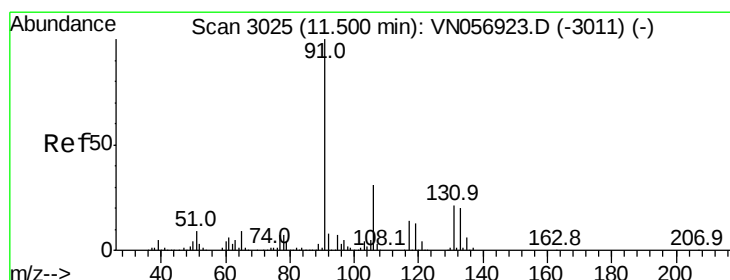
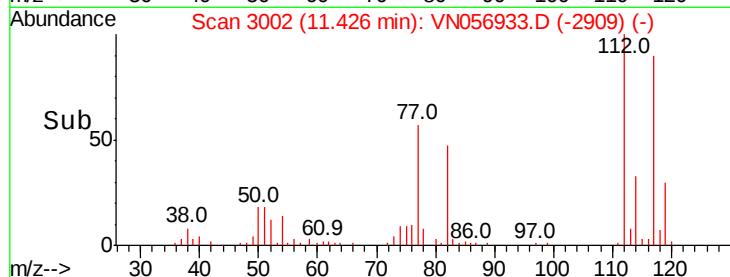
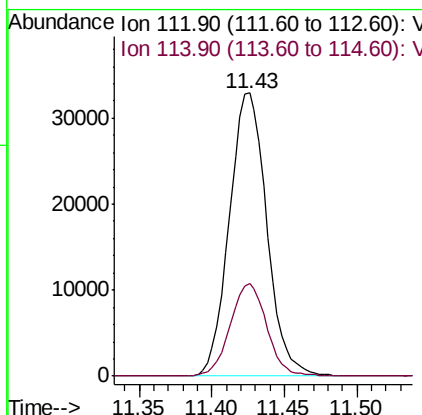
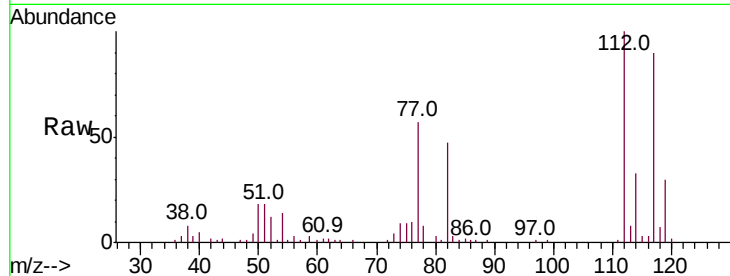
#65
Chlorobenzene
Concen: 4.775 ug/l
RT: 11.43 min Scan# 3002
Delta R.T. -0.00 min
Lab File: VN056933.D
Acq: 25 Jul 2019 20:51

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT3-2019

Tot Ion:112 Resp: 58965
Ion Ratio Lower Upper
112 100
114 32.6 25.8 38.8

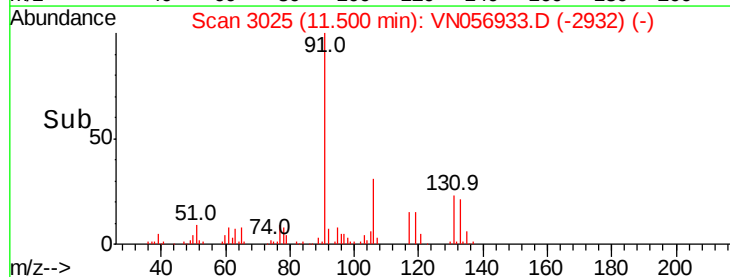
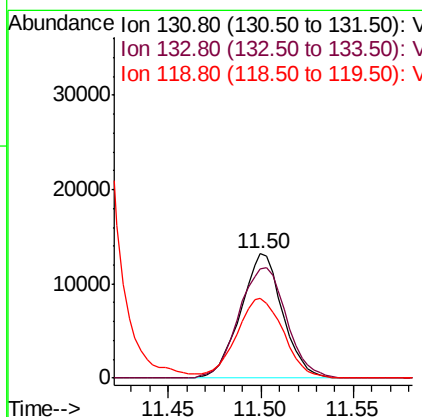
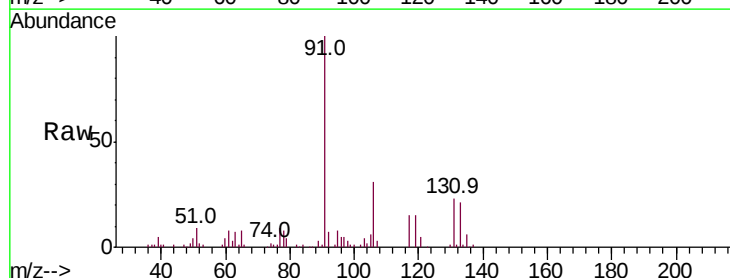
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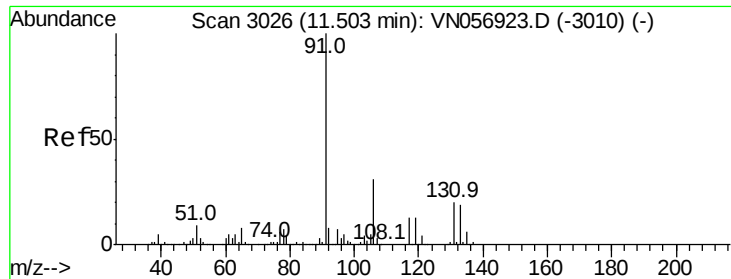
MMDadoda
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#66
1,1,1,2-Tetrachloroethane
Concen: 4.547 ug/l
RT: 11.50 min Scan# 3025
Delta R.T. -0.00 min
Lab File: VN056933.D
Acq: 25 Jul 2019 20:51

Tgt Ion:131 Resp: 20881
Ion Ratio Lower Upper
131 100
133 100.9 47.1 141.4
119 72.0 32.6 98.0





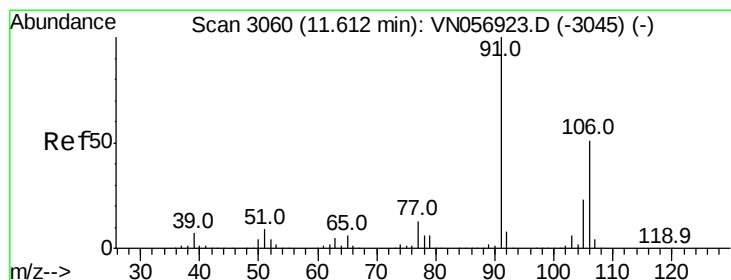
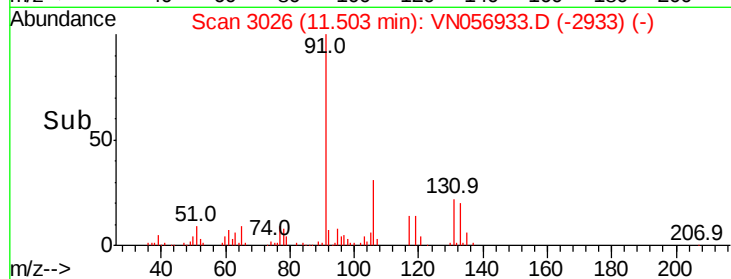
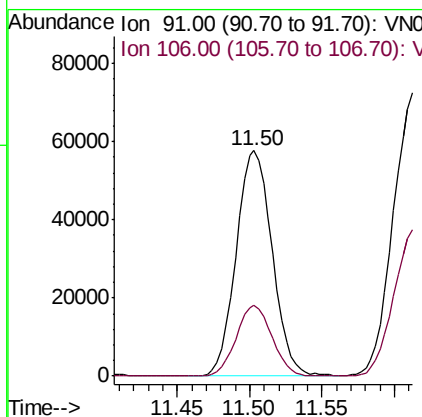
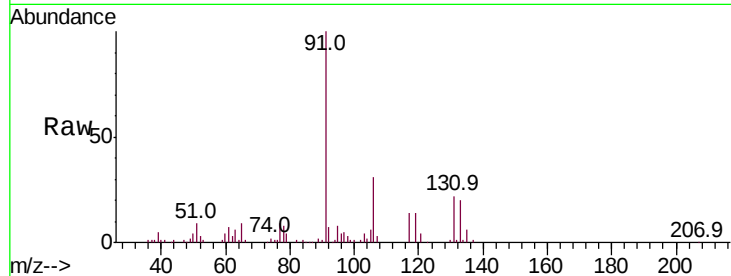
#67
Ethyl Benzene
Concen: 4.683 ug/l
RT: 11.50 min Scan# 3026
Delta R.T. -0.00 min
Lab File: VN056933.D
Acq: 25 Jul 2019 20:51

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT3-2019

Tot Ion: 91 Resp: 99560
Ion Ratio Lower Upper
91 100
106 31.3 24.9 37.3

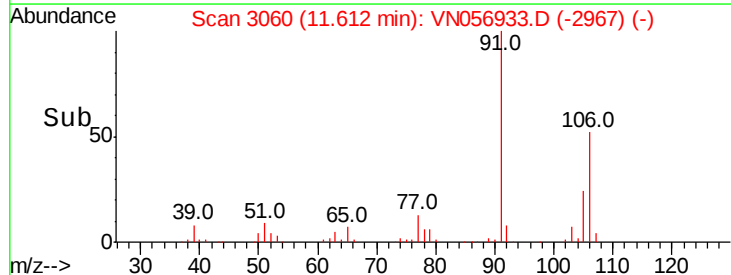
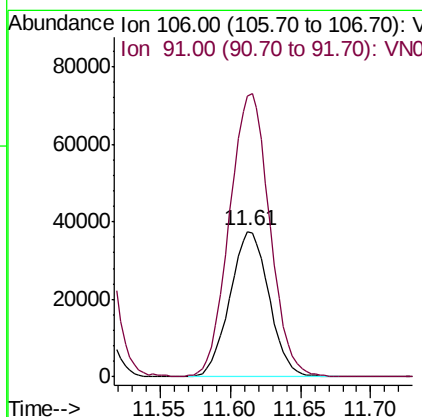
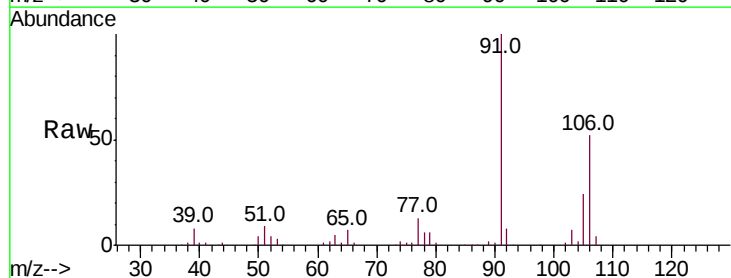
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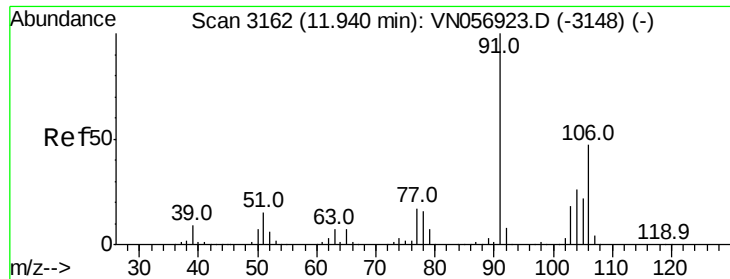
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#68
m/p-Xylenes
Concen: 9.192 ug/l
RT: 11.61 min Scan# 3060
Delta R.T. -0.00 min
Lab File: VN056933.D
Acq: 25 Jul 2019 20:51

Tgt Ion: 106 Resp: 72865
Ion Ratio Lower Upper
106 100
91 200.6 159.6 239.4





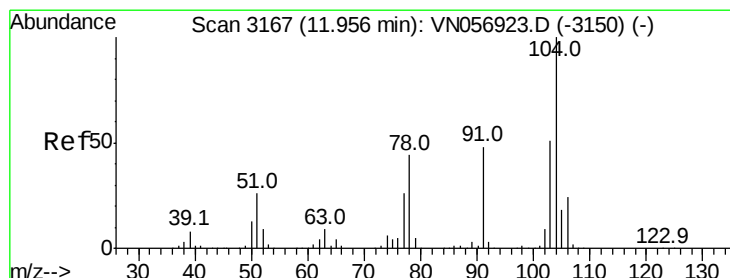
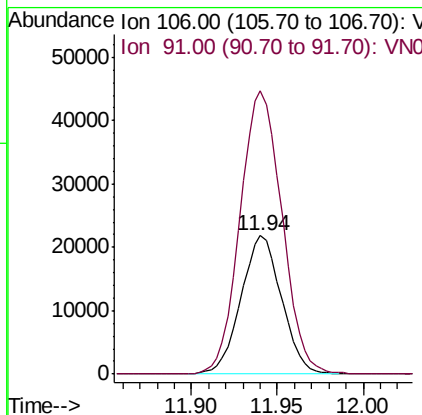
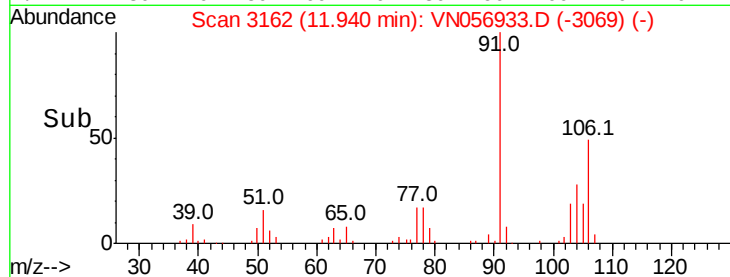
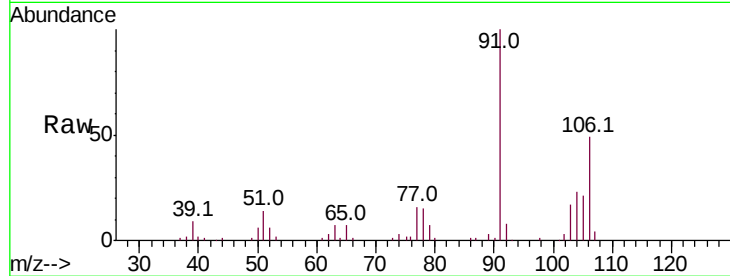
#69
o-Xylene
Concen: 4.628 ug/l
RT: 11.94 min Scan# 3162
Delta R.T. -0.00 min
Lab File: VN056933.D
Acq: 25 Jul 2019 20:51

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT3-2019

Tot Ion:106 Resp: 35903
Ion Ratio Lower Upper
106 100
91 211.5 105.7 317.0

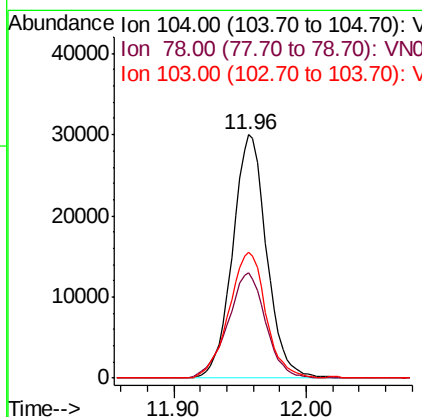
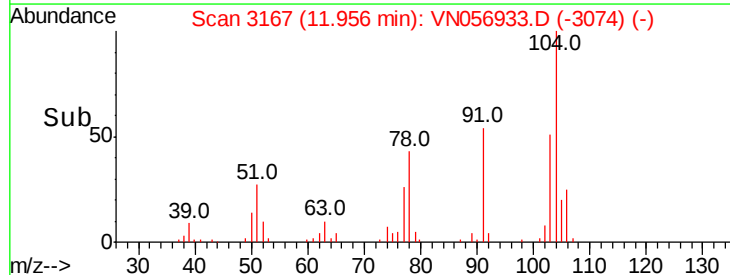
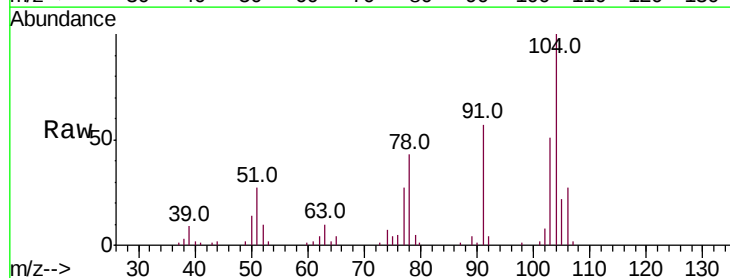
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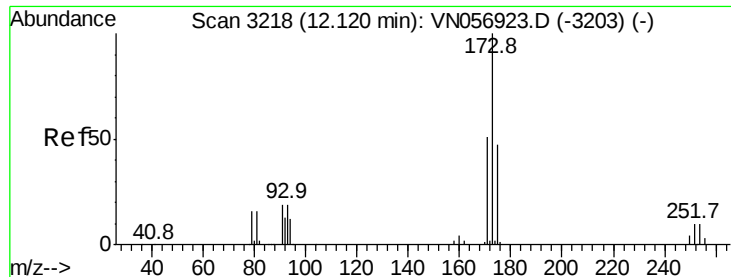
MMDadoda
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#70
Styrene
Concen: 4.337 ug/l
RT: 11.96 min Scan# 3167
Delta R.T. 0.00 min
Lab File: VN056933.D
Acq: 25 Jul 2019 20:51

Tgt Ion:104 Resp: 53288
Ion Ratio Lower Upper
104 100
78 48.1 38.5 57.7
103 56.3 44.1 66.1





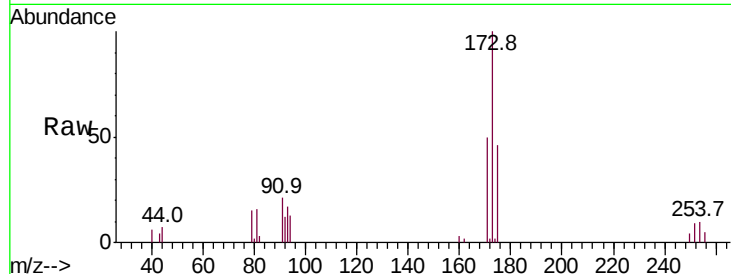
#71
Bromoform
Concen: 4.265 ug/l
RT: 12.12 min Scan# 3218
Delta R.T. -0.00 min
Lab File: VN056933.D
Acq: 25 Jul 2019 20:51

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT3-2019

Tot Ion	Ratio	Lower	Upper
173	100		
175	43.9	24.2	72.6
254	0.0	0.1	0.1#

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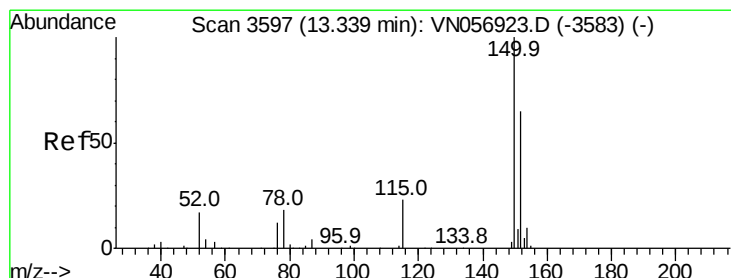
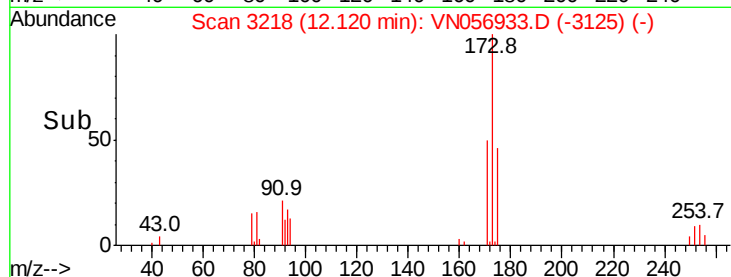
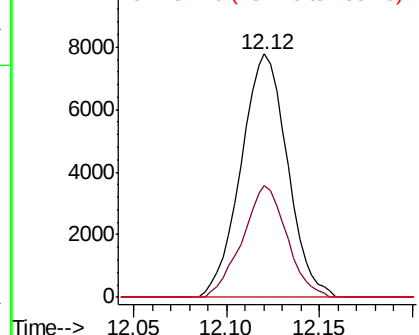


Abundance

Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3597
Delta R.T. -0.00 min
Lab File: VN056933.D
Acq: 25 Jul 2019 20:51

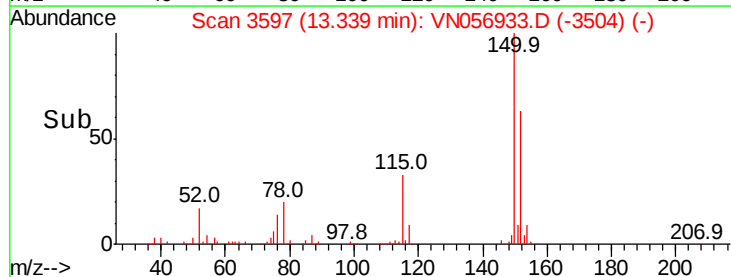
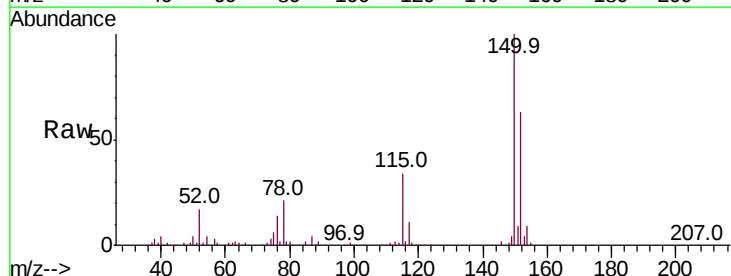
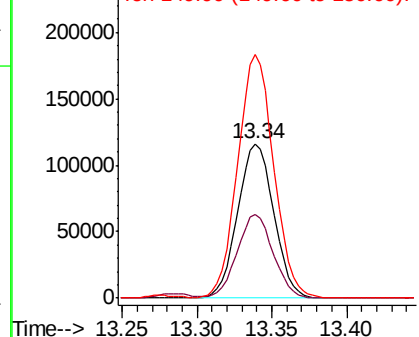
Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.2	27.9	83.7
150	157.8	0.0	354.2

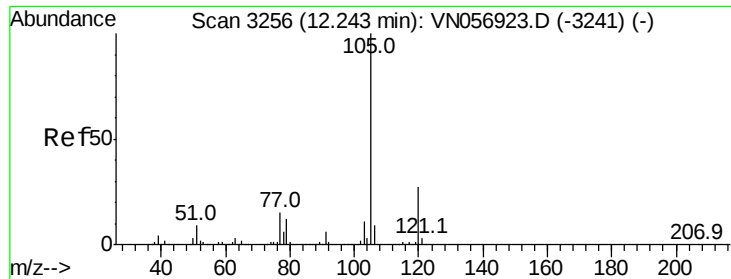
Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 5.230 ug/l

RT: 12.24 min Scan# 3256

Delta R.T. 0.00 min

Lab File: VN056933.D

Acq: 25 Jul 2019 20:51

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT3-2019

Tot Ion:105 Resp: 92902

Ion Ratio Lower Upper

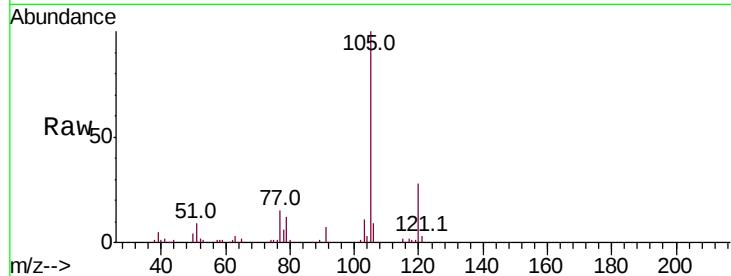
105 100

120 27.2 13.4 40.1

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.24

60000

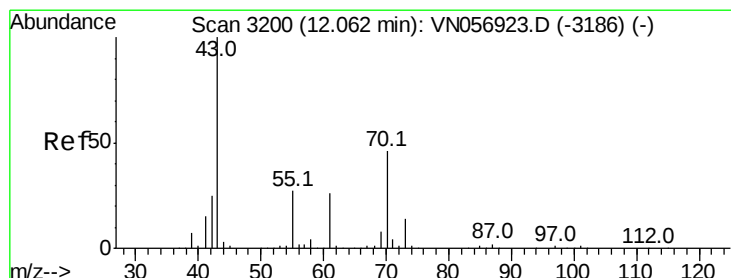
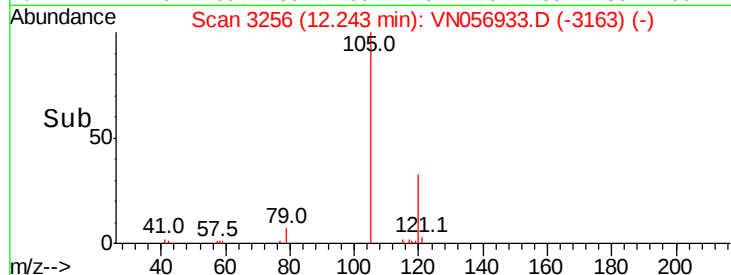
40000

20000

0

Time-->

12.20 12.25 12.30



#74

N-ethyl acetate

Concen: 5.250 ug/l

RT: 12.06 min Scan# 3200

Delta R.T. -0.00 min

Lab File: VN056933.D

Acq: 25 Jul 2019 20:51

Tgt Ion: 43 Resp: 27373

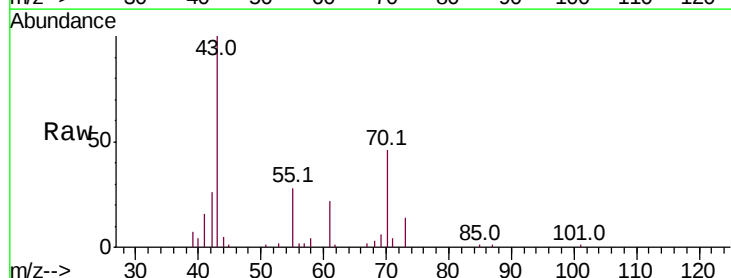
Ion Ratio Lower Upper

43 100

70 44.7 35.9 53.9

55 25.8 21.4 32.2

61 22.4 20.3 30.5



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

12.06

25000

20000

15000

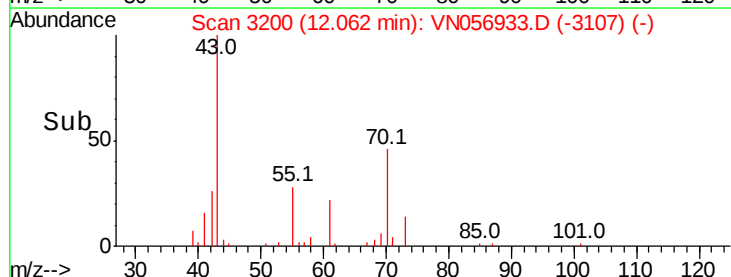
10000

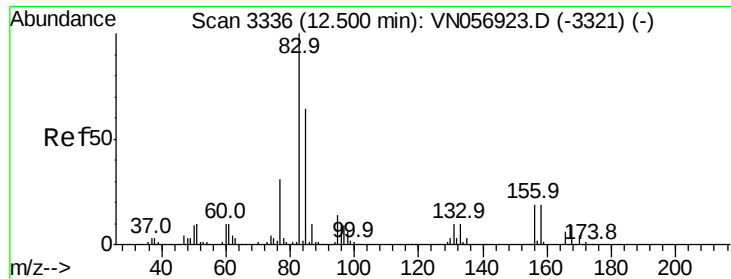
5000

0

Time-->

12.00 12.05 12.10





#75

1,1,2,2-Tetrachloroethane

Concen: 5.474 ug/l

RT: 12.50 min Scan# 3336

Delta R.T. 0.00 min

Lab File: VN056933.D

Acq: 25 Jul 2019 20:51

Instrument :

MSVOA_N

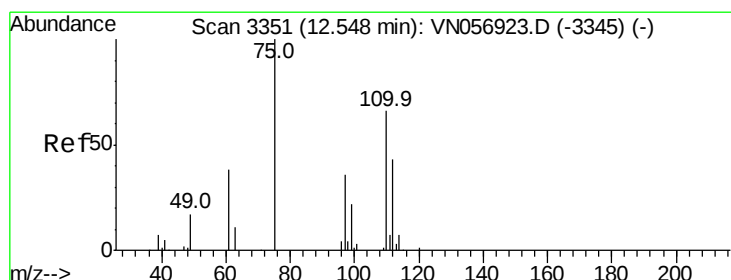
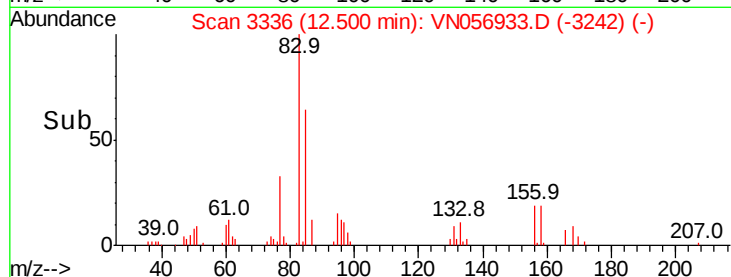
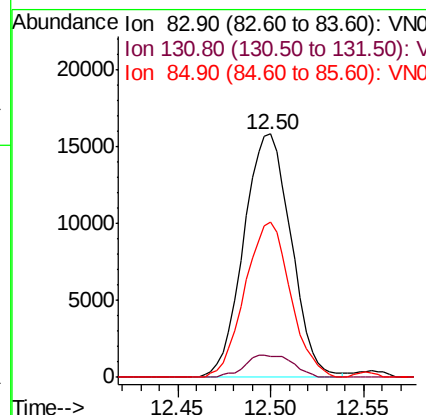
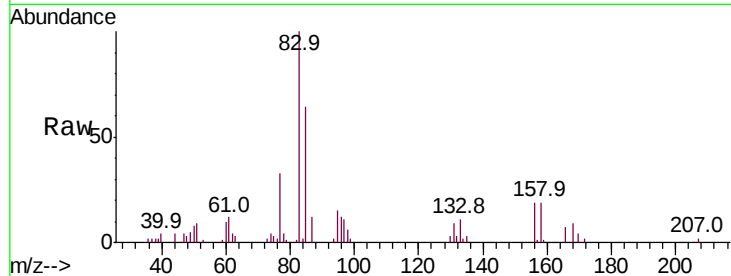
ClientSampleId :

LOQ-WATER-02-QT3-2019

Tot Ion:	83	Resp:	28011
Ion Ratio	Lower	Upper	
83	100		
131	9.2	5.3	15.8
85	61.4	32.3	96.9

Manual Integrations
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7/26/2019 3:37:50 PM



#76

1,2,3-Trichloropropane

Concen: 5.766 ug/l m

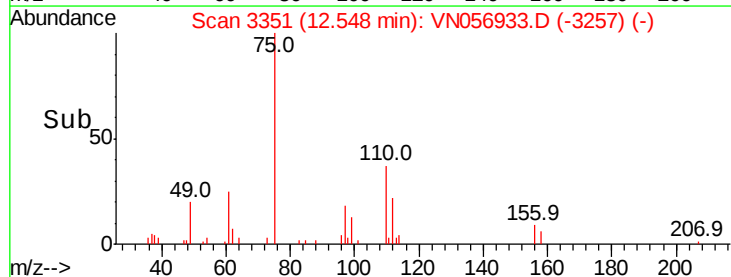
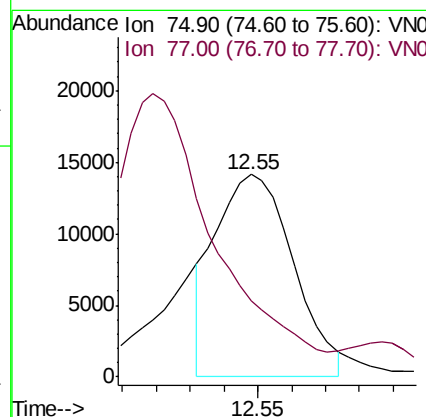
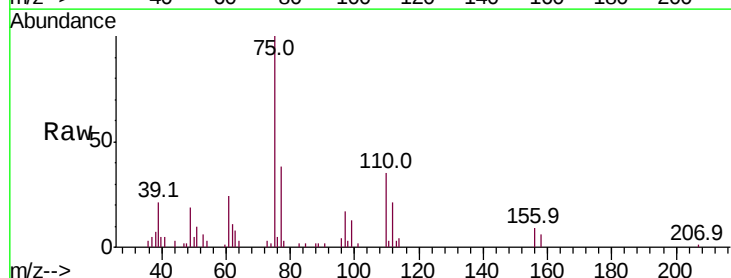
RT: 12.55 min Scan# 3351

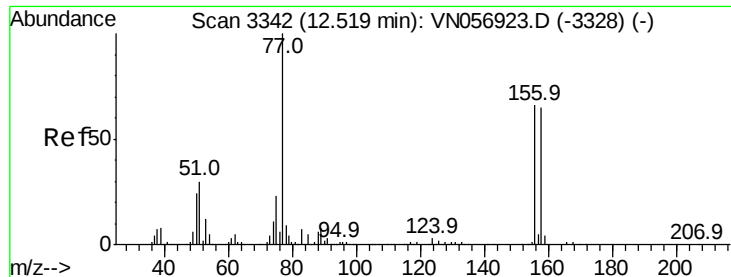
Delta R.T. 0.00 min

Lab File: VN056933.D

Acq: 25 Jul 2019 20:51

Tgt Ion:	75	Resp:	22529
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 5.359 ug/l

RT: 12.52 min Scan# 3342

Delta R.T. -0.00 min

Lab File: VN056933.D

Acq: 25 Jul 2019 20:51

Instrument :

MSVOA_N

ClientSampleId :

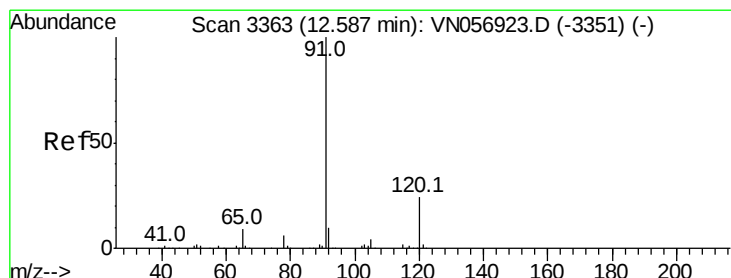
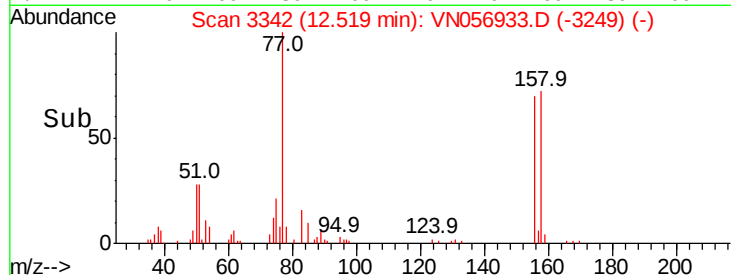
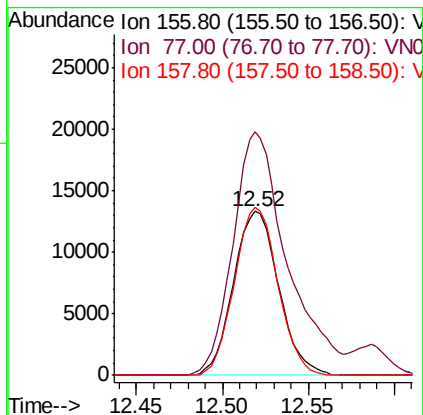
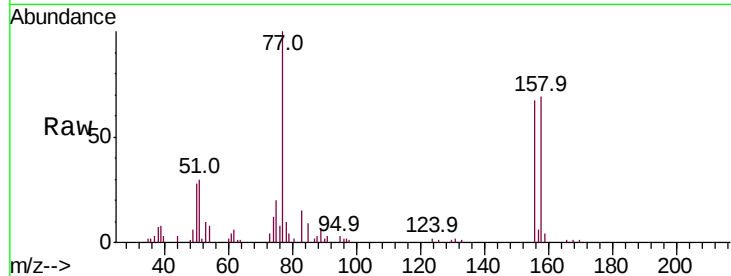
LOQ-WATER-02-QT3-2019

Tot Ion:156 Resp: 24319

Ion	Ratio	Lower	Upper
156	100		
77	178.3	90.8	272.3
158	98.3	49.5	148.5

Manual Integrations
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#78

n-propylbenzene

Concen: 5.109 ug/l

RT: 12.58 min Scan# 3362

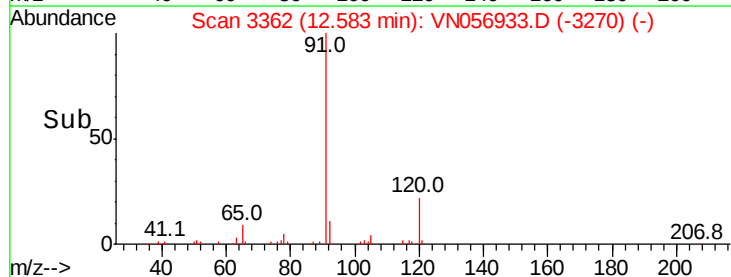
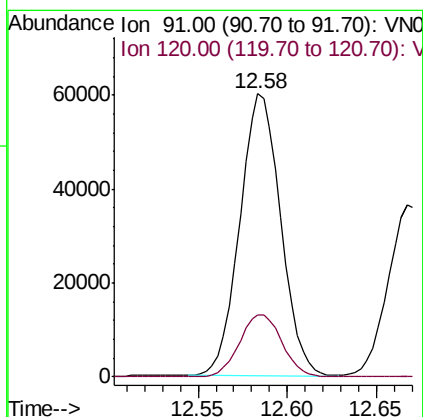
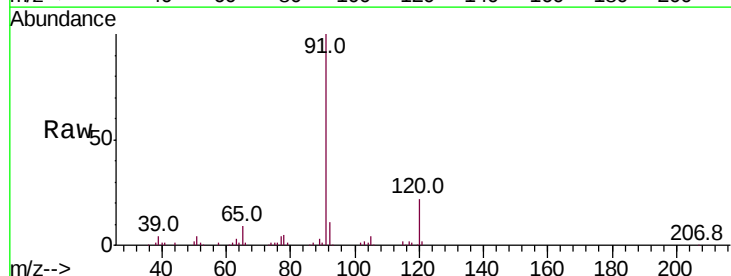
Delta R.T. -0.00 min

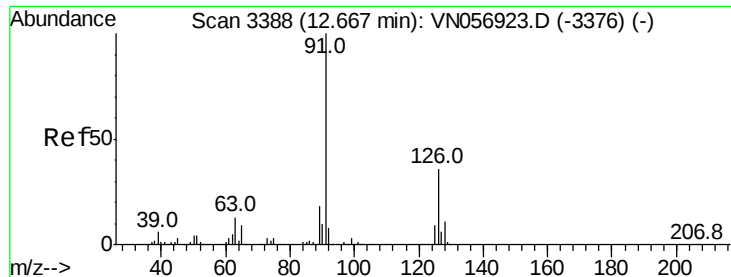
Lab File: VN056933.D

Acq: 25 Jul 2019 20:51

Tgt Ion: 91 Resp: 95830

Ion	Ratio	Lower	Upper
91	100		
120	23.1	11.9	35.7





#79

2-Chlorotoluene

Concen: 5.155 ug/l

RT: 12.67 min Scan# 3388

Delta R.T. 0.00 min

Lab File: VN056933.D

Acq: 25 Jul 2019 20:51

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT3-2019

Tot Ion: 91 Resp: 60194

Ion Ratio Lower Upper

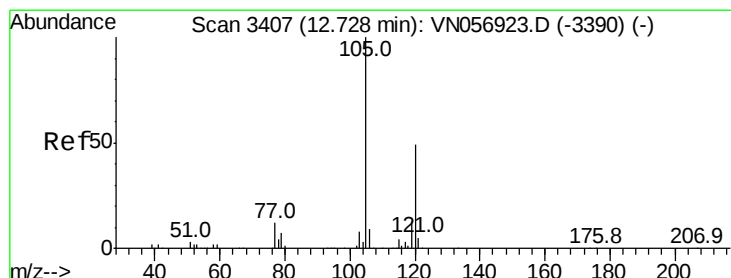
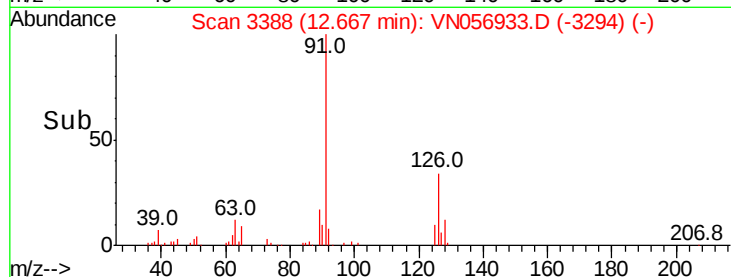
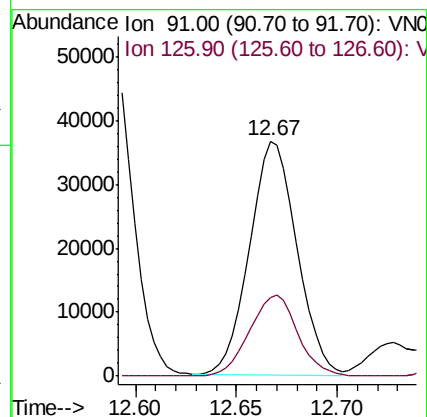
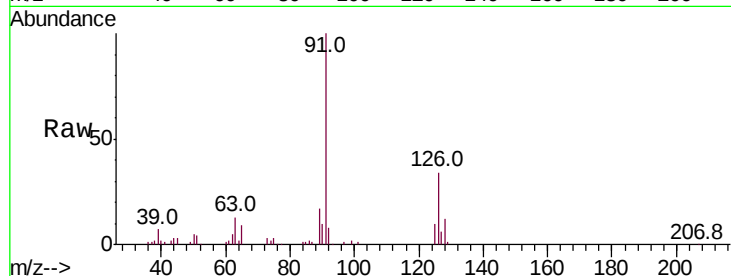
91 100

126 35.3 17.9 53.7

Manual Integrations
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#80

1,3,5-Trimethylbenzene

Concen: 5.289 ug/l

RT: 12.73 min Scan# 3407

Delta R.T. -0.00 min

Lab File: VN056933.D

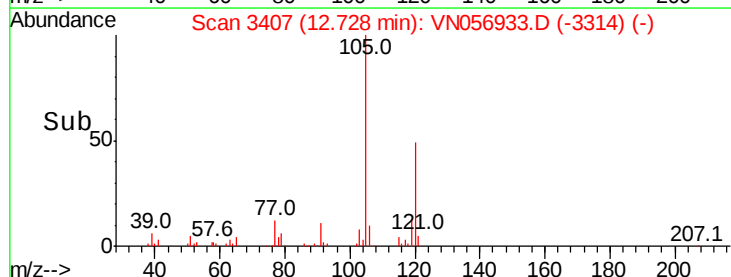
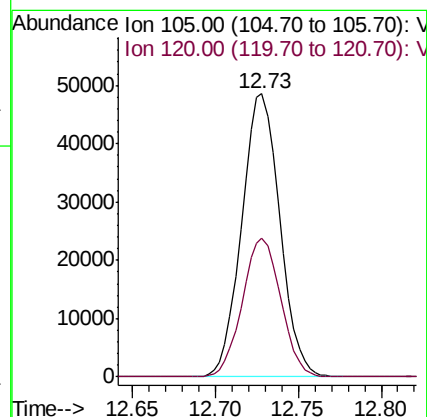
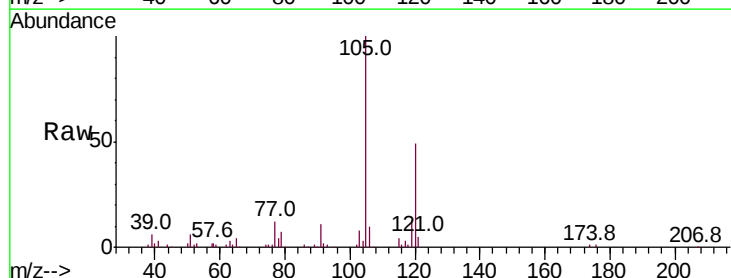
Acq: 25 Jul 2019 20:51

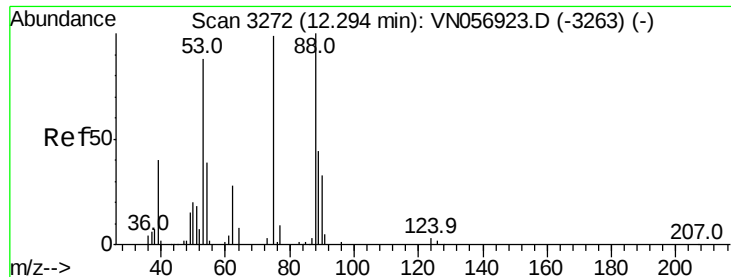
Tgt Ion:105 Resp: 77562

Ion Ratio Lower Upper

105 100

120 49.4 24.9 74.7





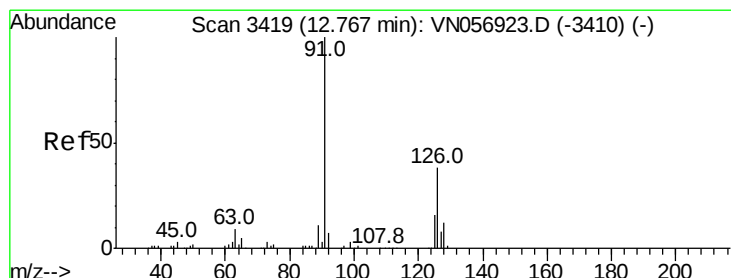
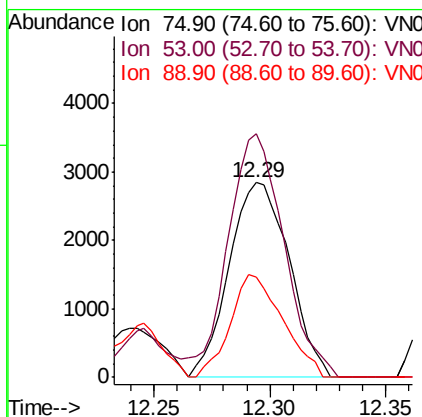
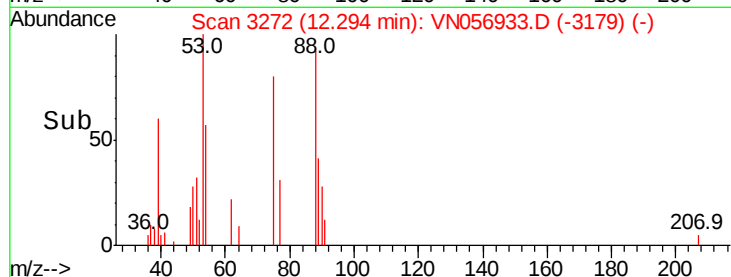
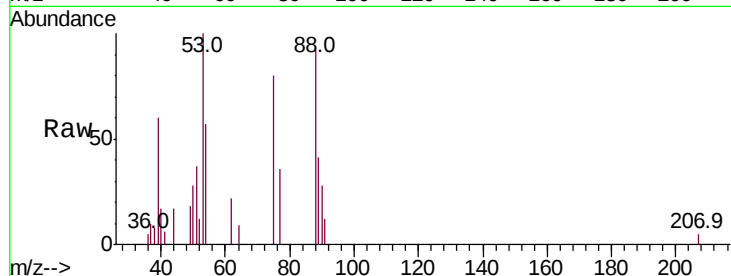
#81
trans-1,4-Dichloro-2-butene
Concen: 4.129 ug/l
RT: 12.29 min Scan# 3272
Delta R.T. -0.00 min
Lab File: VN056933.D
Acq: 25 Jul 2019 20:51

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT3-2019

Tot Ion	Ratio	Lower	Upper
75	100		
53	116.1	72.3	108.5#
89	46.0	36.2	54.2

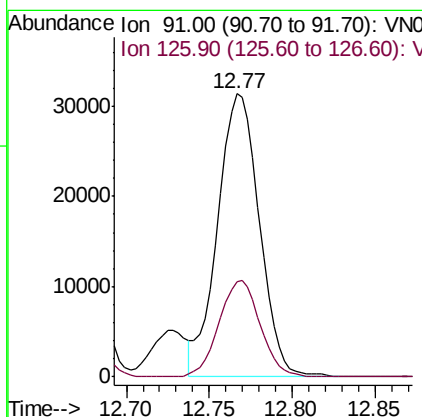
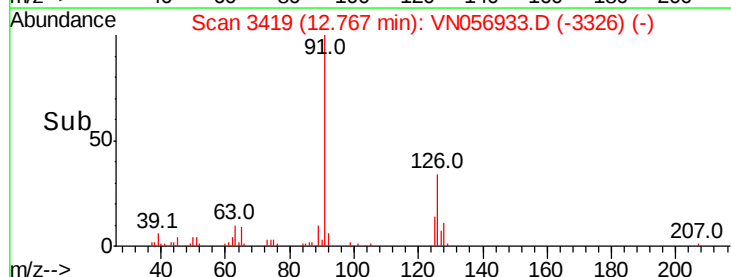
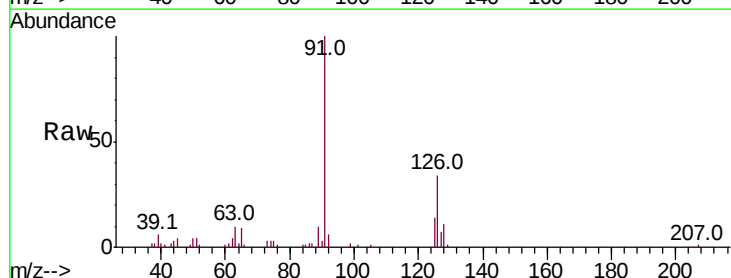
Manual Integrations
APPROVED

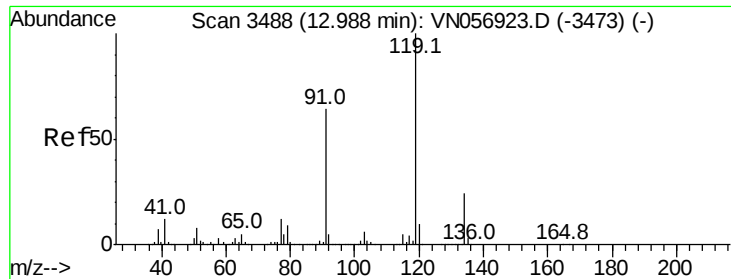
MMDadoda
7/26/2019 3:37:50 PM



#82
4-Chlorotoluene
Concen: 5.126 ug/l
RT: 12.77 min Scan# 3419
Delta R.T. -0.00 min
Lab File: VN056933.D
Acq: 25 Jul 2019 20:51

Tgt Ion	Ratio	Lower	Upper
91	100		
126	33.4	17.3	51.7





#83

tert-Butylbenzene

Concen: 5.402 ug/l

RT: 12.99 min Scan# 3488

Delta R.T. 0.00 min

Lab File: VN056933.D

Acq: 25 Jul 2019 20:51

Instrument :

MSVOA_N

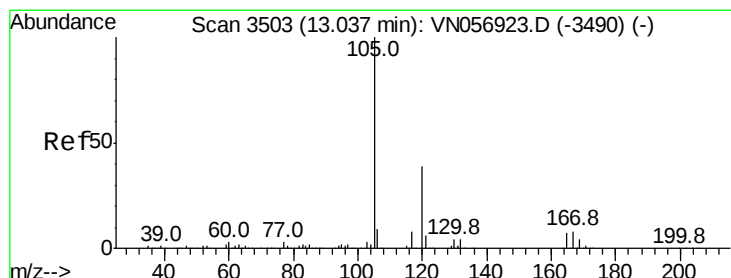
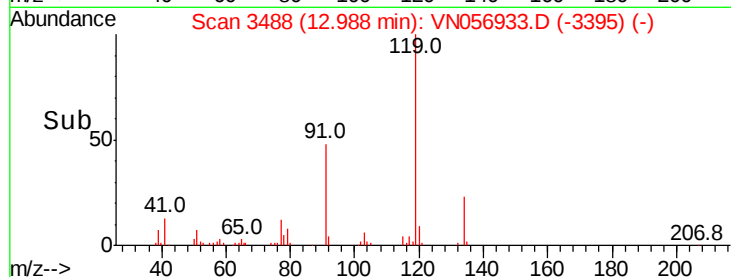
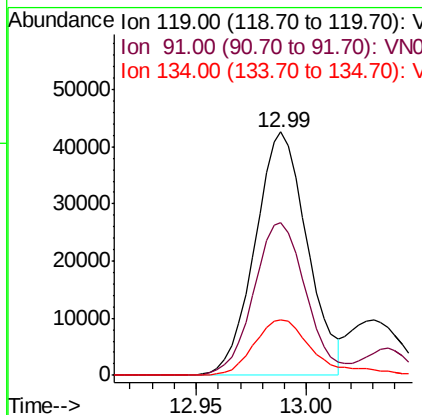
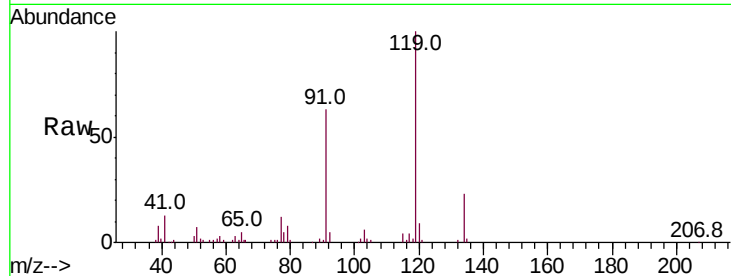
ClientSampleId :

LOQ-WATER-02-QT3-2019

Tot Ion:	119	Resp:	69806
Ion Ratio	Lower	Upper	
119	100		
91	62.7	31.6	95.0
134	26.1	13.2	39.5

Manual Integrations
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7/26/2019 3:37:50 PM



#84

1,2,4-Trimethylbenzene

Concen: 5.136 ug/l

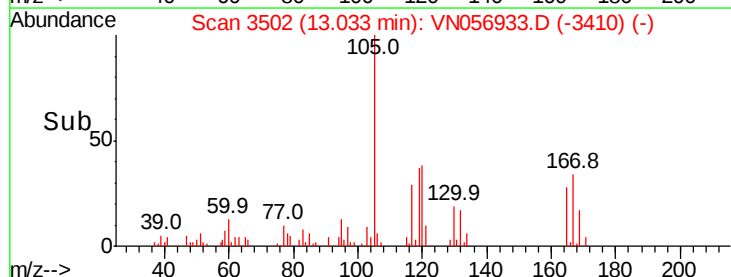
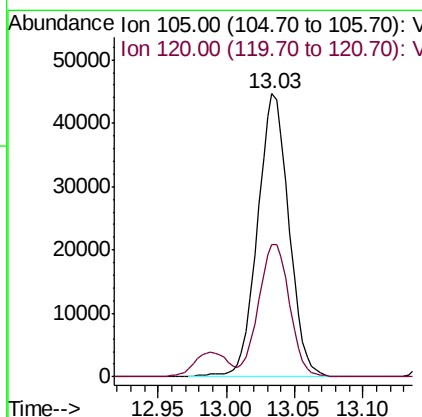
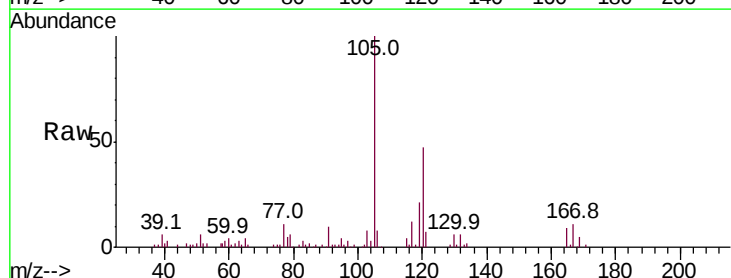
RT: 13.03 min Scan# 3502

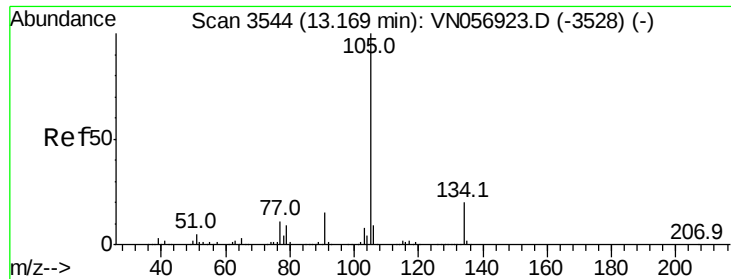
Delta R.T. -0.00 min

Lab File: VN056933.D

Acq: 25 Jul 2019 20:51

Tgt Ion:	105	Resp:	71325
Ion Ratio	Lower	Upper	
105	100		
120	46.4	23.1	69.2





#85

sec-Butylbenzene

Concen: 5.119 ug/l

RT: 13.17 min Scan# 3544

Delta R.T. -0.00 min

Lab File: VN056933.D

Acq: 25 Jul 2019 20:51

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT3-2019

Tot Ion:105 Resp: 83636

Ion Ratio Lower Upper

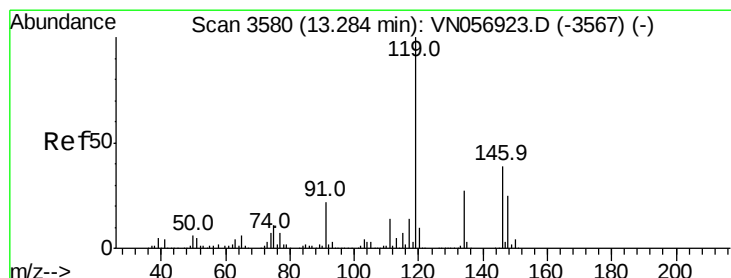
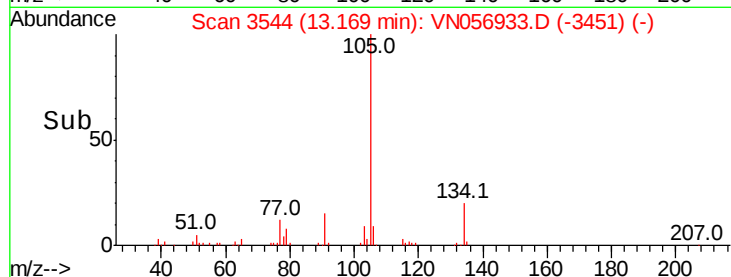
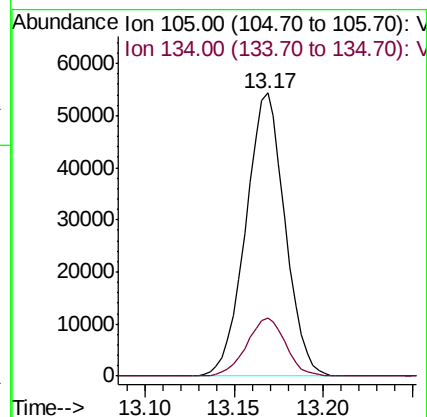
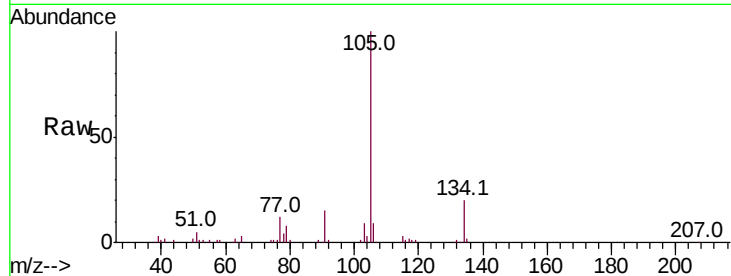
105 100

134 20.4 10.3 30.8

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7/26/2019 3:37:50 PM



#86

p-Isopropyltoluene

Concen: 5.175 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. -0.00 min

Lab File: VN056933.D

Acq: 25 Jul 2019 20:51

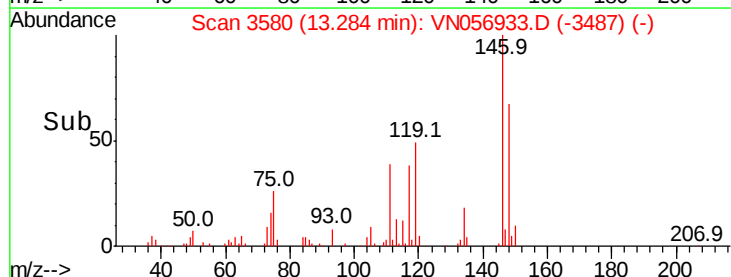
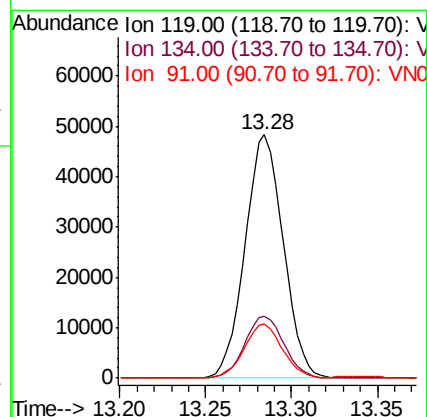
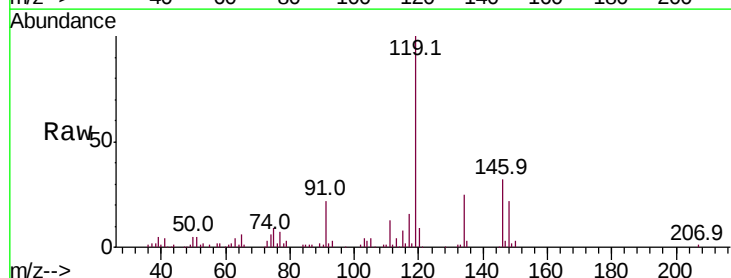
Tgt Ion:119 Resp: 74715

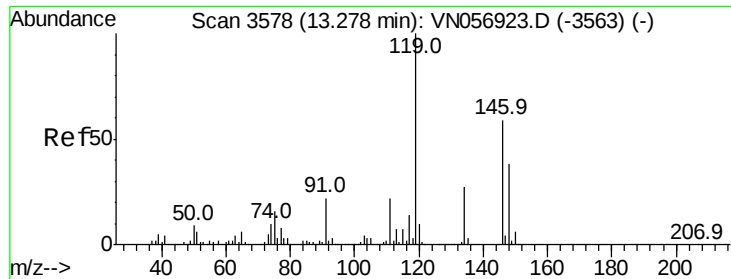
Ion Ratio Lower Upper

119 100

134 26.0 13.5 40.5

91 22.3 11.0 33.0





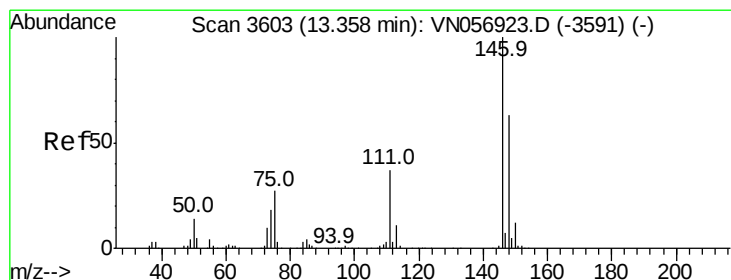
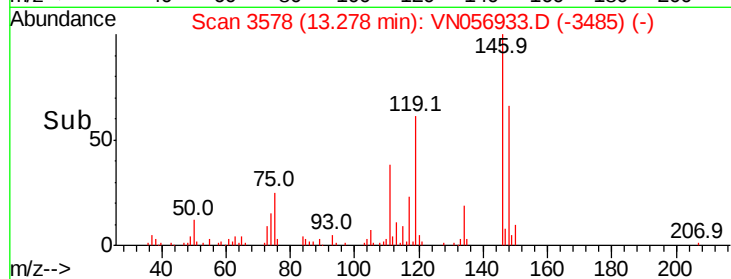
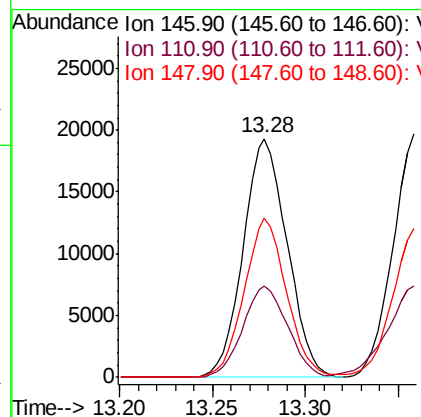
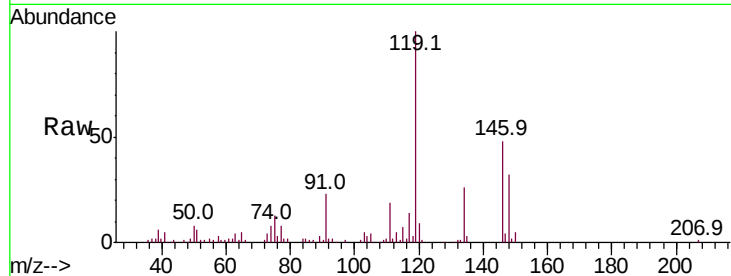
#87
 1,3-Dichlorobenzene
 Concen: 4.675 ug/l
 RT: 13.28 min Scan# 3578
 Delta R.T. -0.00 min
 Lab File: VN056933.D
 Acq: 25 Jul 2019 20:51

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT3-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.9	18.6	56.0
148	64.4	31.6	94.7

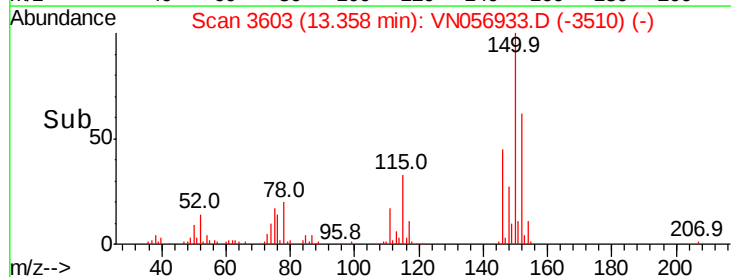
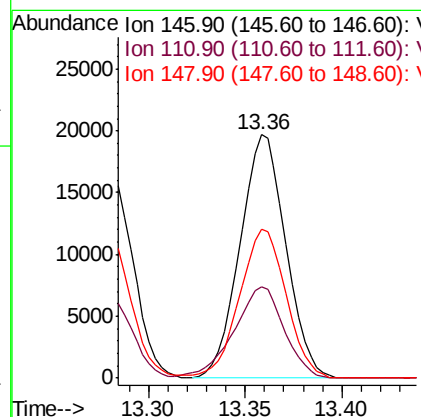
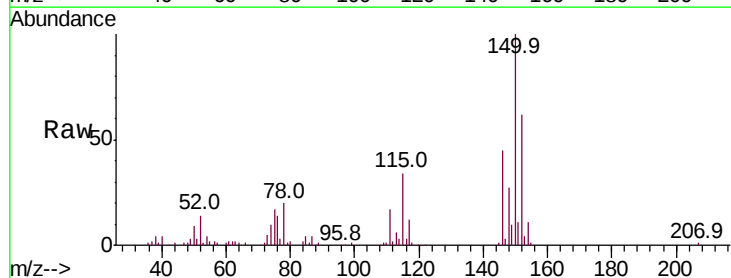
Manual Integrations
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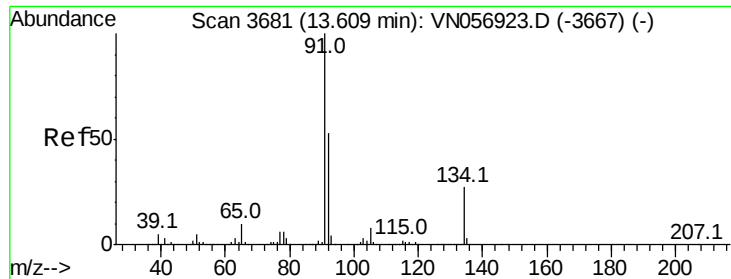
MMDadoda
 7/26/2019 3:37:50 PM



#88
 1,4-Dichlorobenzene
 Concen: 4.985 ug/l
 RT: 13.36 min Scan# 3603
 Delta R.T. -0.00 min
 Lab File: VN056933.D
 Acq: 25 Jul 2019 20:51

Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.3	18.9	56.5
148	62.2	32.1	96.3





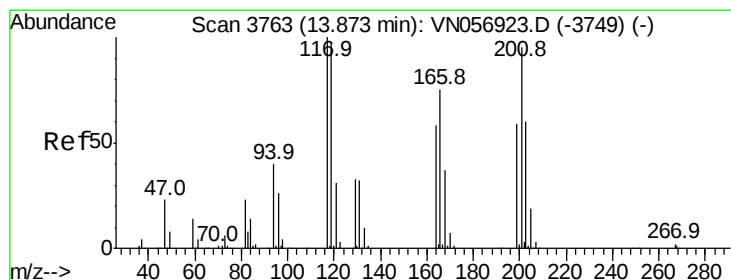
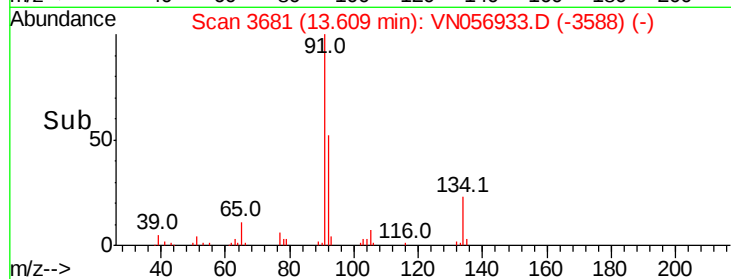
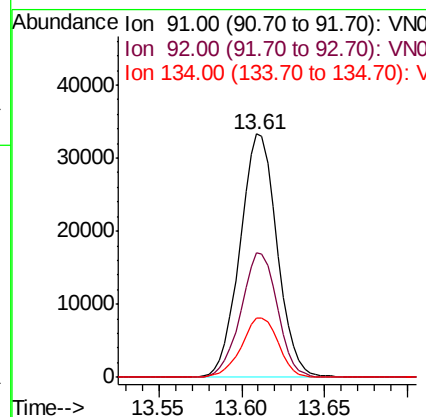
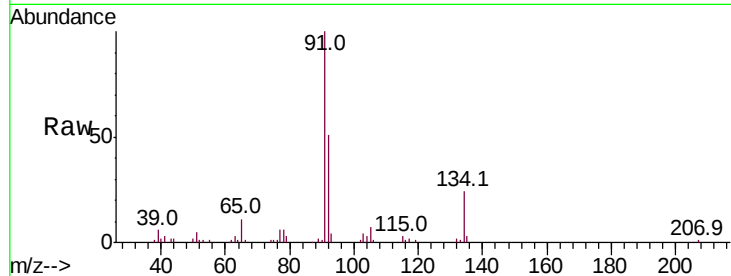
#89
n-Butylbenzene
Concen: 4.645 ug/l
RT: 13.61 min Scan# 3681
Delta R.T. -0.00 min
Lab File: VN056933.D
Acq: 25 Jul 2019 20:51

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT3-2019

Tot Ion	Ratio	Lower	Upper
91	100		
92	50.1	26.5	79.5
134	24.3	13.5	40.5

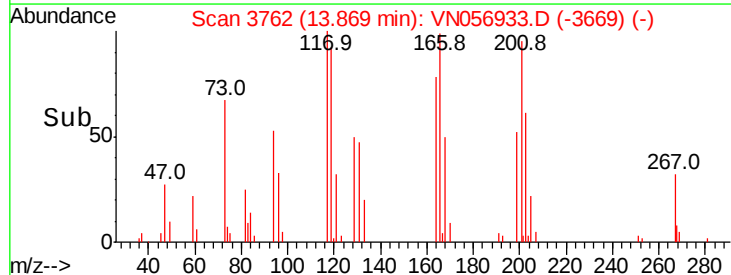
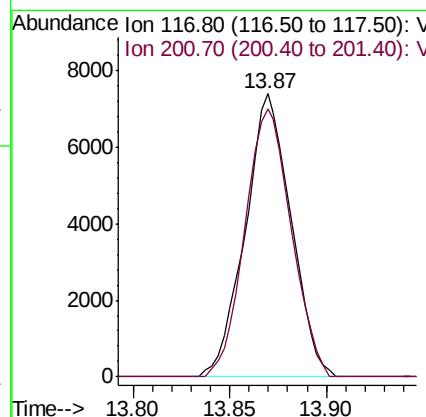
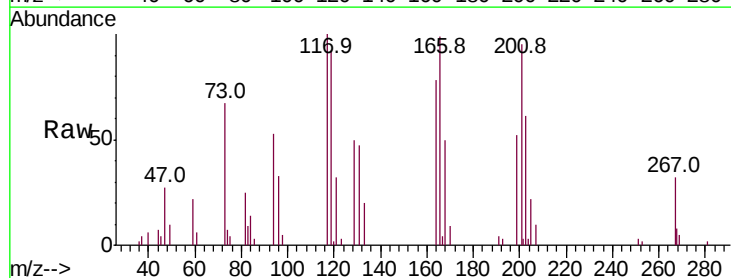
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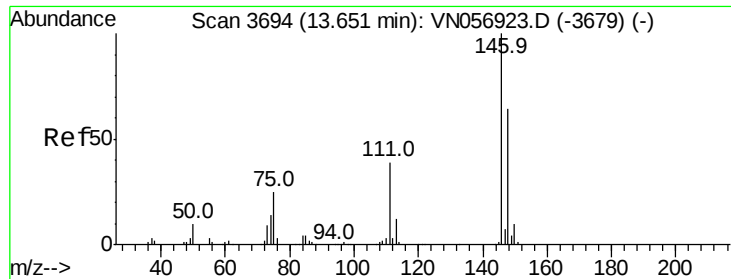
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#90
Hexachloroethane
Concen: 4.753 ug/l
RT: 13.87 min Scan# 3762
Delta R.T. -0.00 min
Lab File: VN056933.D
Acq: 25 Jul 2019 20:51

Tgt Ion	Ratio	Lower	Upper
117	100		
201	95.9	47.3	142.0





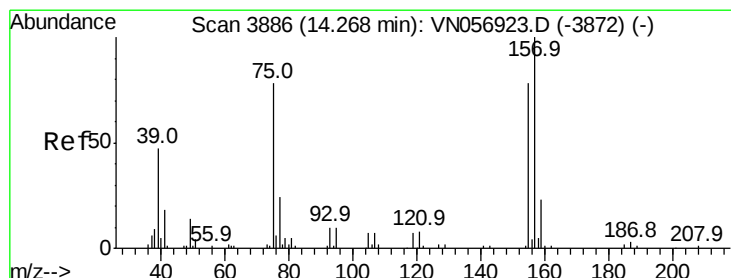
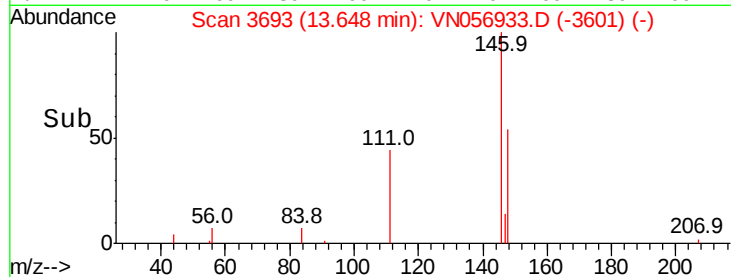
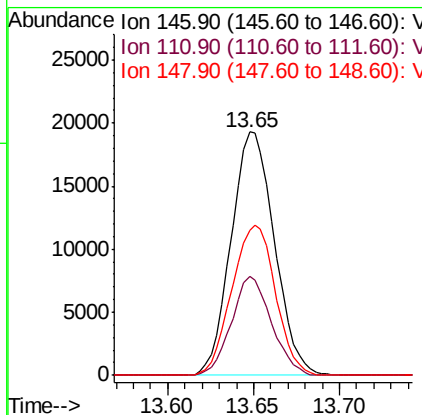
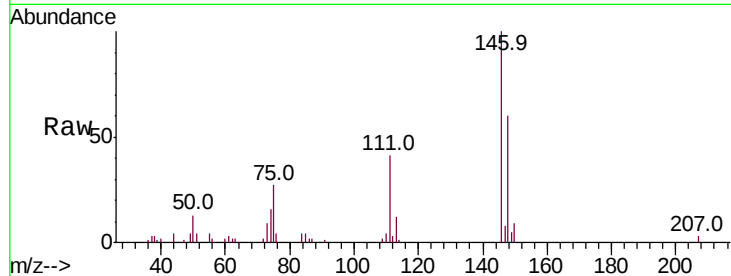
#91
1,2-Dichlorobenzene
Concen: 4.908 ug/l
RT: 13.65 min Scan# 3693
Delta R.T. -0.00 min
Lab File: VN056933.D
Acq: 25 Jul 2019 20:51

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT3-2019

Tot Ion:146 Resp: 33754
Ion Ratio Lower Upper
146 100
111 37.4 19.6 58.8
148 61.9 32.2 96.6

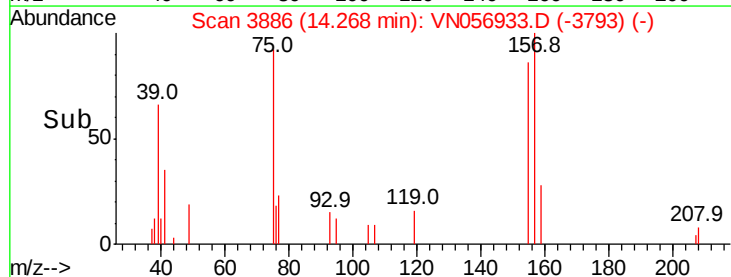
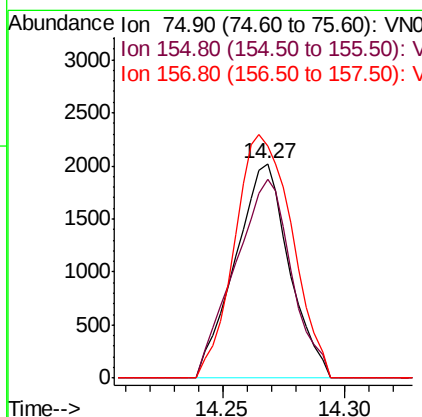
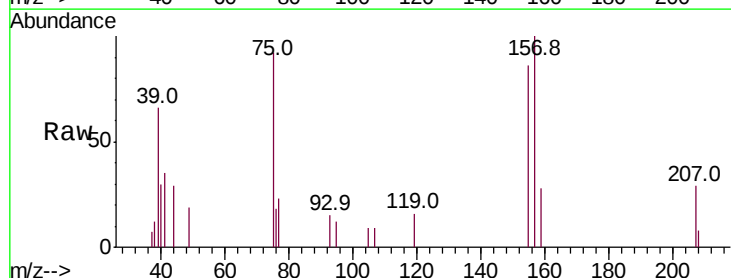
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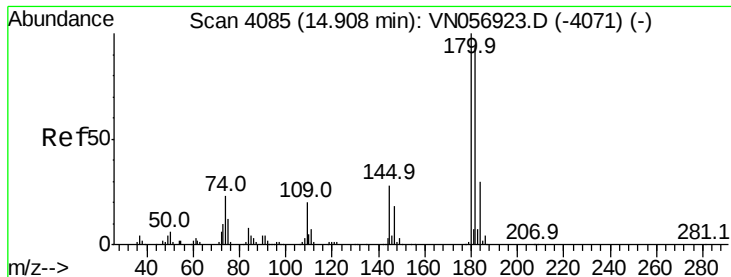
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#92
1,2-Dibromo-3-Chloropropane
Concen: 4.438 ug/l
RT: 14.27 min Scan# 3886
Delta R.T. -0.00 min
Lab File: VN056933.D
Acq: 25 Jul 2019 20:51

Tgt Ion: 75 Resp: 3099
Ion Ratio Lower Upper
75 100
155 97.2 47.3 141.9
157 121.0 63.0 189.0





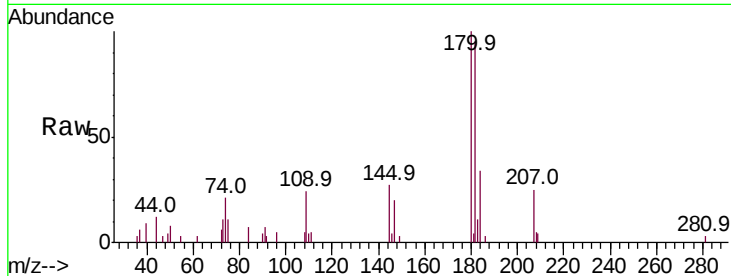
#93
 1,2,4-Trichlorobenzene
 Concen: 3.191 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN056933.D
 Acq: 25 Jul 2019 20:51

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT3-2019

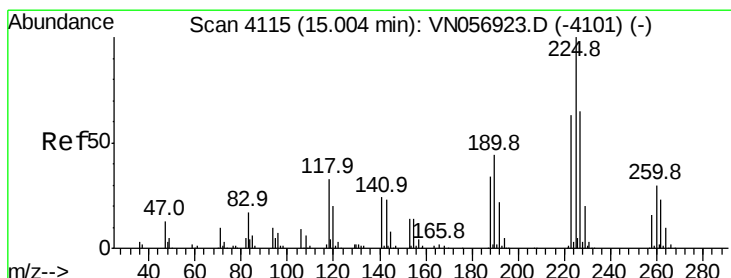
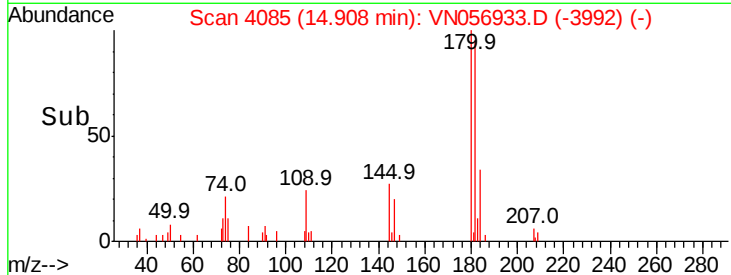
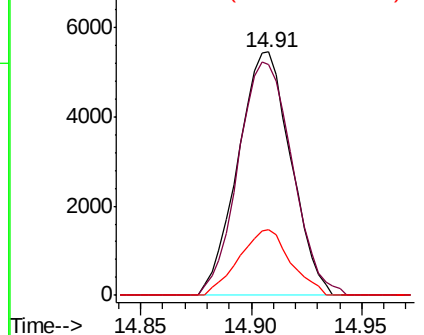
Tot Ion:	180	Resp:	9066
Ion Ratio	Lower	Upper	
180	100		
182	98.0	47.9	143.8
145	26.3	14.1	42.4

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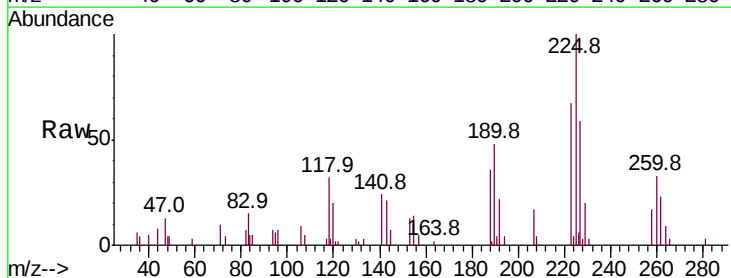


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

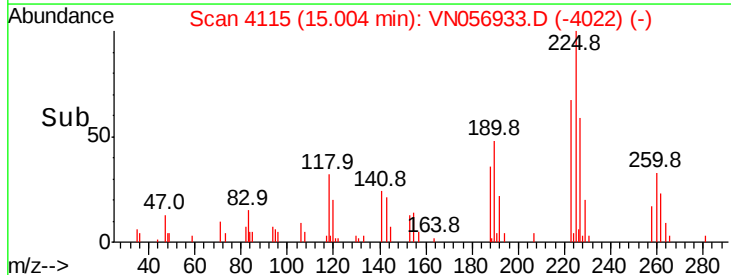
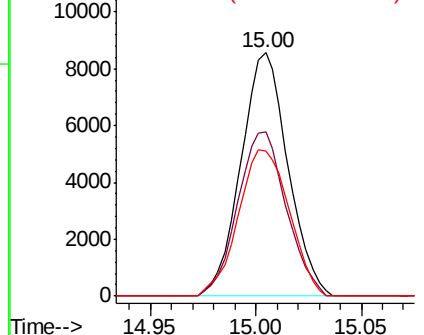


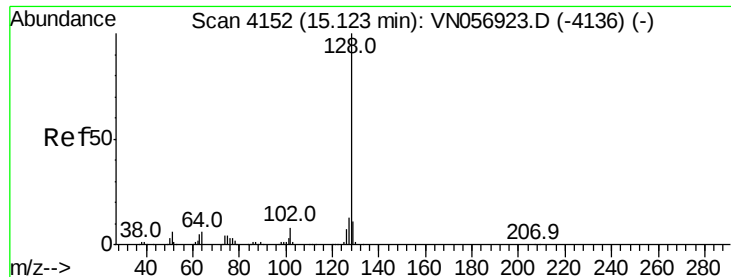
#94
 Hexachlorobutadiene
 Concen: 4.775 ug/l
 RT: 15.00 min Scan# 4115
 Delta R.T. 0.00 min
 Lab File: VN056933.D
 Acq: 25 Jul 2019 20:51

Tgt Ion:	225	Resp:	13257
Ion Ratio	Lower	Upper	
225	100		
223	69.6	31.3	93.9
227	65.2	31.9	95.7



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V





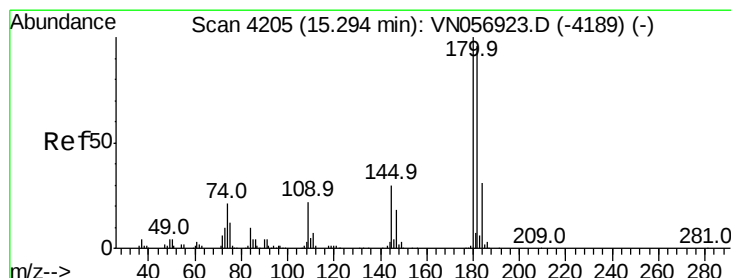
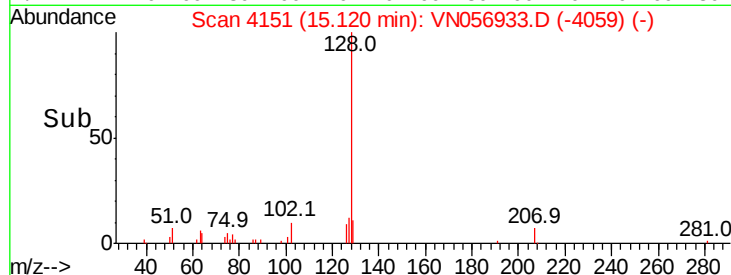
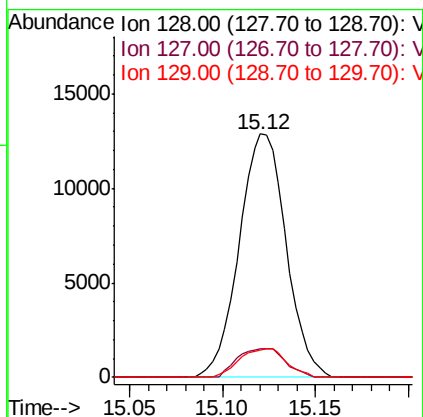
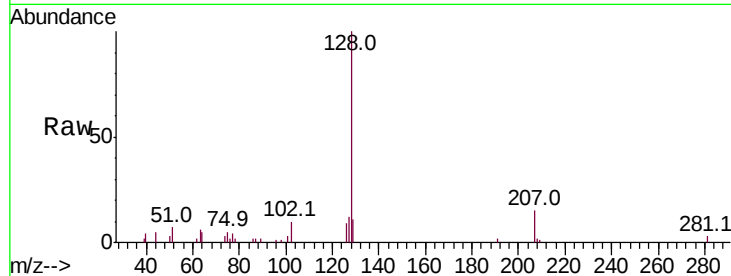
#95
Naphthalene
Concen: 3.158 ug/l
RT: 15.12 min Scan# 4151
Delta R.T. -0.00 min
Lab File: VN056933.D
Acq: 25 Jul 2019 20:51

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT3-2019

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.1	10.2	15.2
129	11.7	8.6	13.0

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#96
1,2,3-Trichlorobenzene
Concen: 3.759 ug/l
RT: 15.29 min Scan# 4204
Delta R.T. -0.00 min
Lab File: VN056933.D
Acq: 25 Jul 2019 20:51

Tgt Ion	Ratio	Lower	Upper
180	100		
182	89.2	48.4	145.3
145	28.1	15.1	45.3

