

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071519\
 Data File : VN056707.D
 Acq On : 15 Jul 2019 13:20
 Operator : JC/SP
 Sample : K3591-07
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2019

Quant Time: Jul 16 04:21:50 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 16 01:25:25 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	330569	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	529815	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	442567	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	148349	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	193112	52.81	ug/l	0.00
Spiked Amount			Recovery	=	105.62%	
35) Dibromofluoromethane	7.59	113	163051	49.45	ug/l	0.00
Spiked Amount			Recovery	=	98.90%	
50) Toluene-d8	10.09	98	613617	48.19	ug/l	0.00
Spiked Amount			Recovery	=	96.38%	
62) 4-Bromofluorobenzene	12.40	95	179097	41.70	ug/l	0.00
Spiked Amount			Recovery	=	83.40%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.85	85	2132	0.687	ug/l	98
3) Chloromethane	2.06	50	3365	0.806	ug/l #	88
4) Vinyl Chloride	2.18	62	3111	0.774	ug/l	91
5) Bromomethane	2.56	94	2304	0.975	ug/l	94
6) Chloroethane	2.70	64	1925	0.822	ug/l #	86
7) Trichlorofluoromethane	3.01	101	3830	0.743	ug/l #	81
8) Diethyl Ether	3.40	74	748	0.372	ug/l #	1
9) 1,1,2-Trichlorotrifluoroet	3.76	101	2281	0.736	ug/l	94
10) Methyl Iodide	3.95	142	2107	0.508	ug/l #	80
11) Tert butyl alcohol	4.80	59	1905	3.130	ug/l #	73
12) 1,1-Dichloroethene	3.73	96	2255	0.726	ug/l	94
13) Acrolein	3.61	56	1271	16.523	ug/l	92
14) Allyl chloride	4.31	41	4154	0.773	ug/l	98
15) Acrylonitrile	4.99	53	2025	1.152	ug/l #	1
16) Acetone	3.83	43	6505	3.860	ug/l	98
17) Carbon Disulfide	4.05	76	6220	0.757	ug/l #	92
18) Methyl Acetate	4.34	43	5893	0.595	ug/l #	89
19) Methyl tert-butyl Ether	5.05	73	7457	0.753	ug/l #	87
20) Methylene Chloride	4.55	84	3252	0.883	ug/l	94
21) trans-1,2-Dichloroethene	5.05	96	1500	0.457	ug/l #	87
22) Diisopropyl ether	5.95	45	7513	0.708	ug/l #	71
23) Vinyl Acetate	5.91	43	26625	3.097	ug/l	100
24) 1,1-Dichloroethane	5.85	63	4534	0.737	ug/l #	83
25) 2-Butanone	6.85	43	8461	3.435	ug/l	99
26) 2,2-Dichloropropane	6.82	77	3425	0.772	ug/l	77
27) cis-1,2-Dichloroethene	6.84	96	2826	0.748	ug/l	87
28) Bromochloromethane	7.19	49	1939	0.671	ug/l #	97
29) Tetrahydrofuran	7.22	42	5942	3.698	ug/l #	84
30) Chloroform	7.37	83	4985	0.810	ug/l	98
31) Cyclohexane	7.66	56	9120	1.560	ug/l #	12
32) 1,1,1-Trichloroethane	7.58	97	3551	0.730	ug/l #	45
36) 1,1-Dichloropropene	7.79	75	3843	0.784	ug/l	92
37) Ethyl Acetate	6.94	43	1328	0.275	ug/l #	87
38) Carbon Tetrachloride	7.77	117	3277	0.713	ug/l	91

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	4193	0.693	ug/l	98
40) Benzene	8.04	78	11251	0.749	ug/l	97
41) Methacrylonitrile	7.18	41	1052	0.496	ug/l #	100
42) 1,2-Dichloroethane	8.12	62	3914	0.824	ug/l	89
43) Isopropyl Acetate	8.17	43	5244	0.690	ug/l #	81
44) Trichloroethene	8.84	130	3136	0.769	ug/l	96
45) 1,2-Dichloropropane	9.12	63	2676	0.670	ug/l	95
46) Dibromomethane	9.22	93	1788	0.723	ug/l	93
47) Bromodichloromethane	9.40	83	3084	0.656	ug/l #	90
48) Methyl methacrylate	9.20	41	2497	0.680	ug/l	89
49) 1,4-Dioxane	9.20	88	863	11.448	ug/l #	68
51) 4-Methyl-2-Pentanone	9.99	43	17394	3.535	ug/l	95
52) Toluene	10.16	92	6134	0.688	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	3140	0.640	ug/l #	85
54) cis-1,3-Dichloropropene	9.84	75	3429	0.603	ug/l #	94
55) 1,1,2-Trichloroethane	10.56	97	2623	0.701	ug/l	93
56) Ethyl methacrylate	10.43	69	3258	0.605	ug/l	96
57) 1,3-Dichloropropane	10.71	76	4259	0.697	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.70	63	7812	3.017	ug/l	98
59) 2-Hexanone	10.75	43	11865	3.361	ug/l	93
60) Dibromochloromethane	10.90	129	2356	0.640	ug/l	94
61) 1,2-Dibromoethane	11.00	107	2432	0.654	ug/l	97
64) Tetrachloroethene	10.63	164	2978	0.780	ug/l	94
65) Chlorobenzene	11.43	112	6785	0.750	ug/l	96
66) 1,1,1,2-Tetrachloroethane	11.51	131	2173	0.652	ug/l #	64
67) Ethyl Benzene	11.51	91	10936	0.688	ug/l	98
68) m/p-Xylenes	11.62	106	8037	1.352	ug/l	100
69) o-Xylene	11.95	106	4097	0.701	ug/l	94
70) Styrene	11.96	104	6010	0.636	ug/l	98
71) Bromoform	12.13	173	1377	0.543	ug/l #	98
73) Isopropylbenzene	12.25	105	9951	0.832	ug/l	100
74) N-amyl acetate	12.07	43	3180	0.714	ug/l	91
75) 1,1,1,2,2-Tetrachloroethane	12.50	83	3544	Below Cal		92
76) 1,2,3-Trichloropropane	12.55	75	4096	1.262	ug/l #	100
77) Bromobenzene	12.52	156	2715	0.868	ug/l	98
78) n-propylbenzene	12.59	91	10584	0.797	ug/l	93
79) 2-Chlorotoluene	12.67	91	6998	Below Cal		94
80) 1,3,5-Trimethylbenzene	12.73	105	8366	0.825	ug/l	93
81) trans-1,4-Dichloro-2-buten	12.40	75	82584	78.606	ug/l #	13
82) 4-Chlorotoluene	12.77	91	6470	0.830	ug/l	100
83) tert-Butylbenzene	12.99	119	7274	Below Cal		96
84) 1,2,4-Trimethylbenzene	13.04	105	7643	0.772	ug/l	96
85) sec-Butylbenzene	13.17	105	8935	0.793	ug/l	100
86) p-Isopropyltoluene	13.29	119	7590	0.744	ug/l	94
87) 1,3-Dichlorobenzene	13.28	146	3890	0.759	ug/l	95
88) 1,4-Dichlorobenzene	13.28	146	3890	0.780	ug/l	94
89) n-Butylbenzene	13.61	91	5382	0.655	ug/l	97
90) Hexachloroethane	13.87	117	1014	0.614	ug/l	91
91) 1,2-Dichlorobenzene	13.65	146	3867	0.737	ug/l	93
92) 1,2-Dibromo-3-Chloropropan	14.27	75	373	0.582	ug/l	87

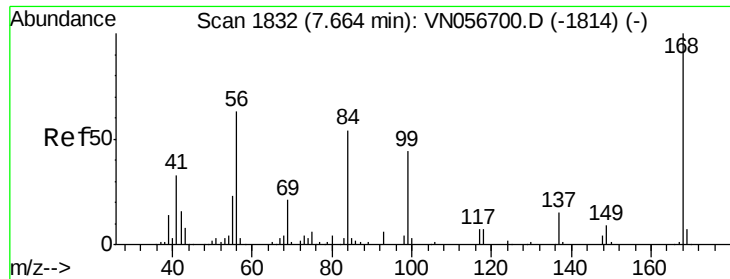
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	1639	4.215	ug/l #	88
94) Hexachlorobutadiene	15.01	225	1408	Below Cal		93
95) Naphthalene	15.13	128	4405	5.030	ug/l #	91
96) 1,2,3-Trichlorobenzene	15.31	180	1896	3.938	ug/l	96

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN056707.D

Acq: 15 Jul 2019 13:20

Instrument :

MSVOA_N

ClientSampleId :

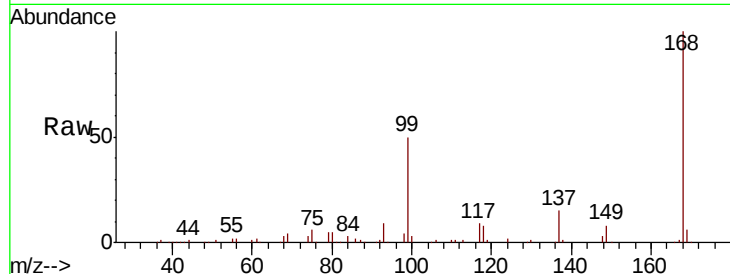
LOD-MDL-WATER-01-QT3-2019

Tot Ion:168 Resp: 330569

Ion Ratio Lower Upper

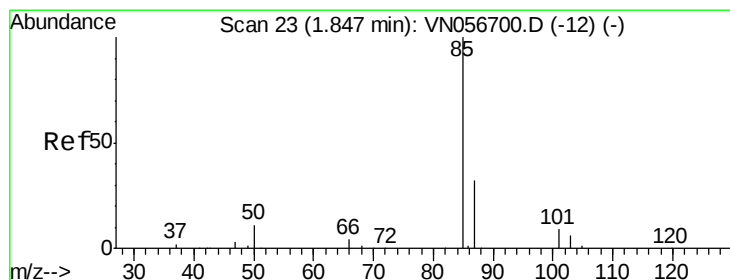
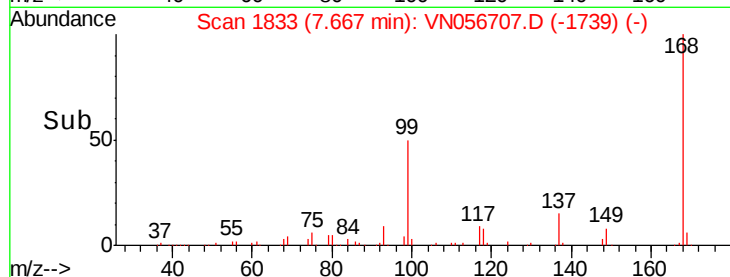
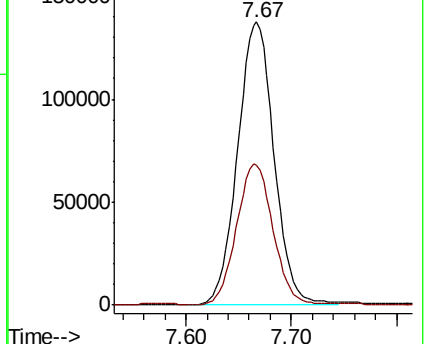
168 100

99 49.4 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#2

Dichlorodifluoromethane

Concen: 0.687 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN056707.D

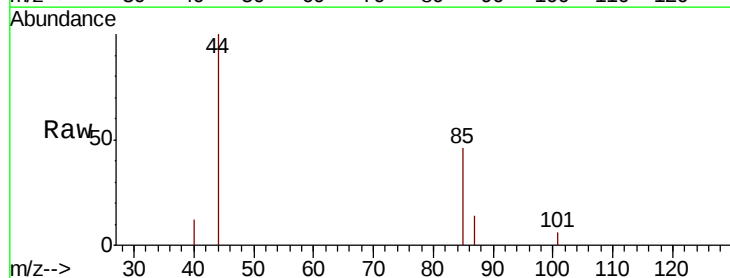
Acq: 15 Jul 2019 13:20

Tgt Ion: 85 Resp: 2132

Ion Ratio Lower Upper

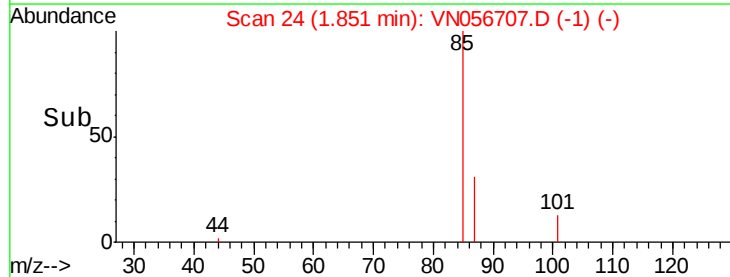
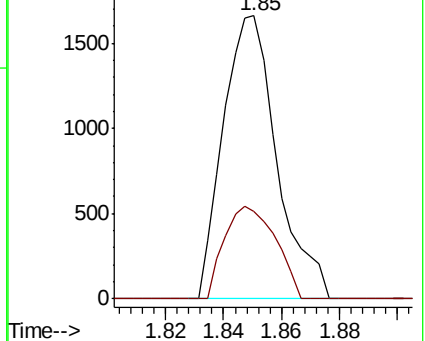
85 100

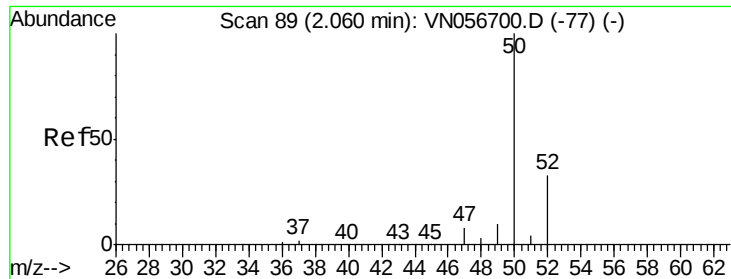
87 30.9 15.9 47.7



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

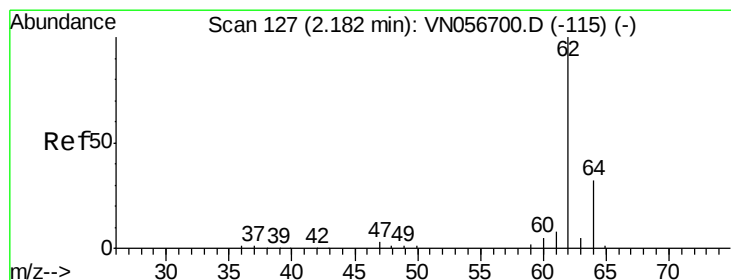
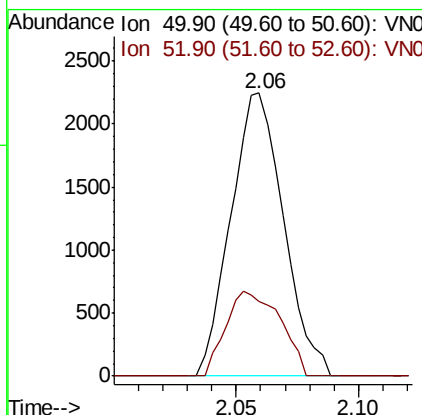
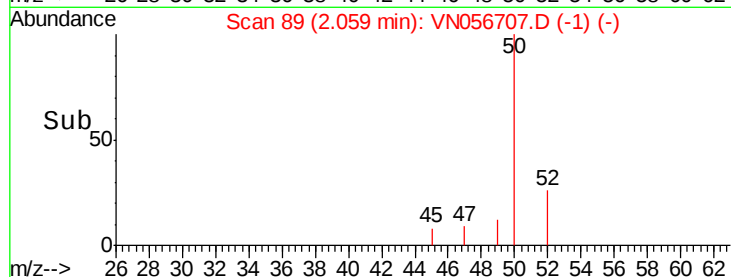
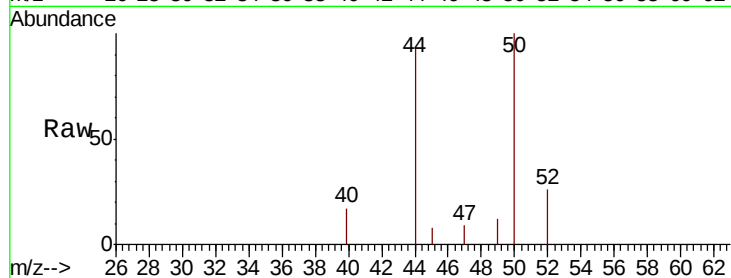




#3
 Chloromethane
 Concen: 0.806 ug/l
 RT: 2.06 min Scan# 89
 Delta R.T. -0.00 min
 Lab File: VN056707.D
 Acq: 15 Jul 2019 13:20

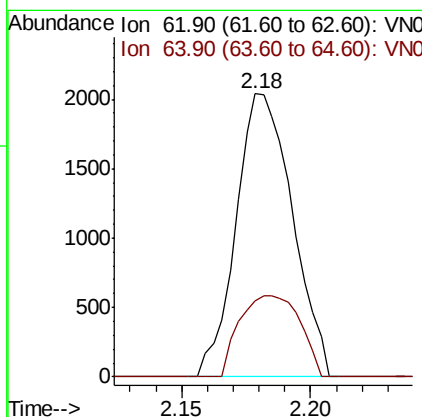
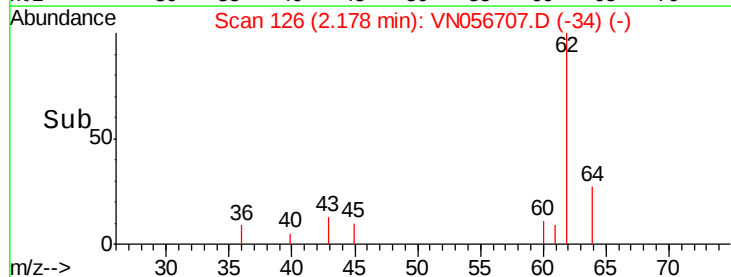
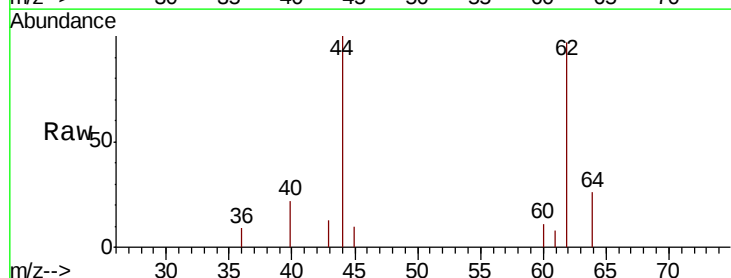
Instrument :
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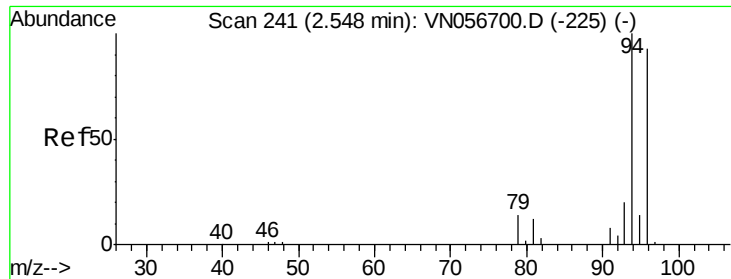
Tot Ion: 50 Resp: 3365
 Ion Ratio Lower Upper
 50 100
 52 26.4 26.5 39.7#



#4
 Vinyl Chloride
 Concen: 0.774 ug/l
 RT: 2.18 min Scan# 126
 Delta R.T. -0.00 min
 Lab File: VN056707.D
 Acq: 15 Jul 2019 13:20

Tgt Ion: 62 Resp: 3111
 Ion Ratio Lower Upper
 62 100
 64 26.7 25.6 38.4





#5

Bromomethane

Concen: 0.975 ug/l

RT: 2.56 min Scan# 244

Delta R.T. 0.01 min

Lab File: VN056707.D

Acq: 15 Jul 2019 13:20

Instrument :

MSVOA_N

ClientSampleId :

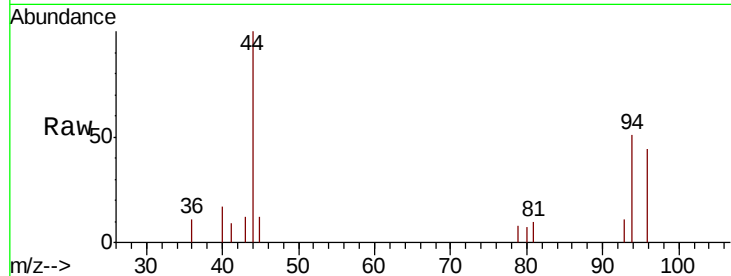
LOD-MDL-WATER-01-QT3-2019

Tot Ion: 94 Resp: 2304

Ion Ratio Lower Upper

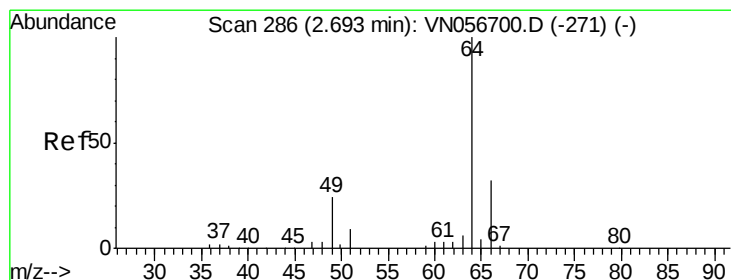
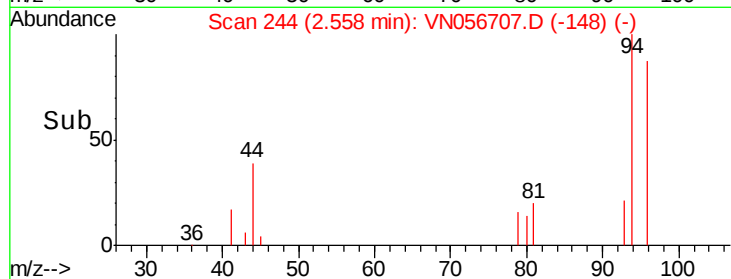
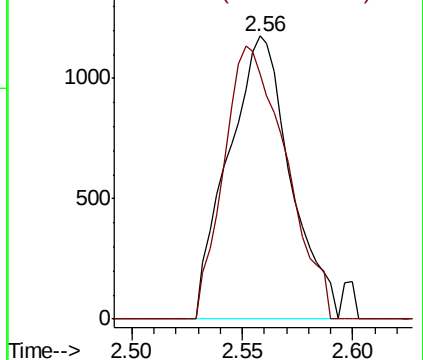
94 100

96 86.6 74.0 111.0



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 0.822 ug/l

RT: 2.70 min Scan# 288

Delta R.T. 0.01 min

Lab File: VN056707.D

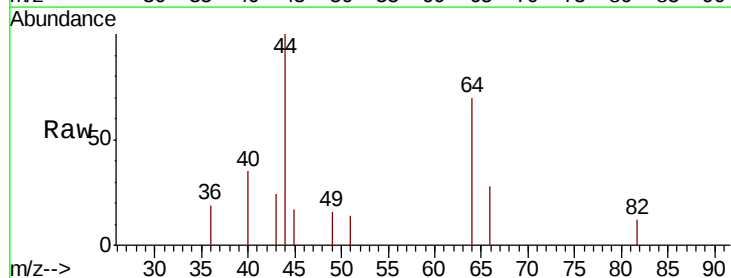
Acq: 15 Jul 2019 13:20

Tgt Ion: 64 Resp: 1925

Ion Ratio Lower Upper

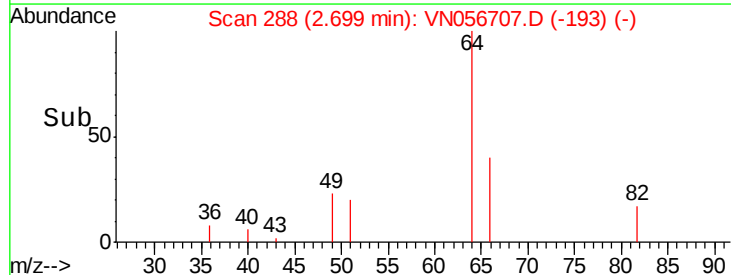
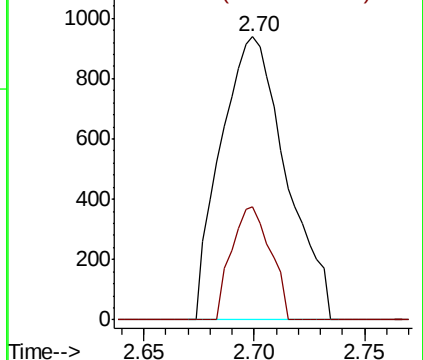
64 100

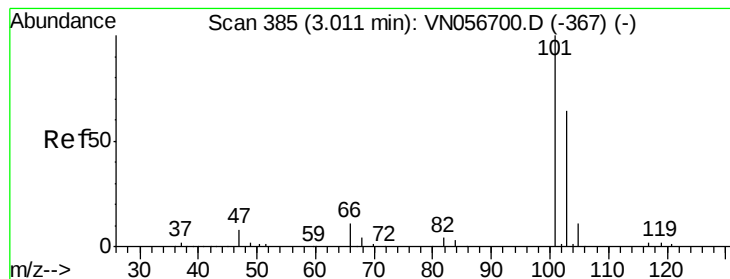
66 39.9 25.8 38.8#



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0



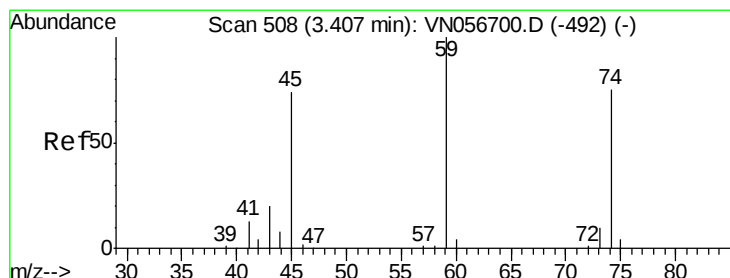
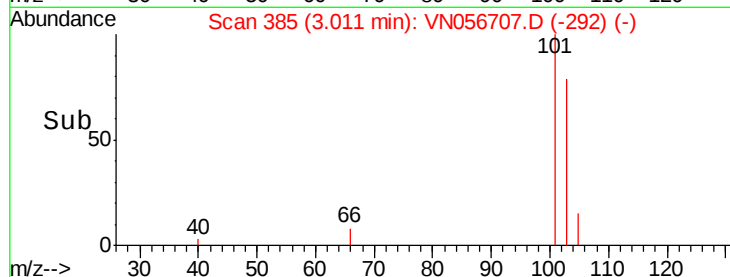
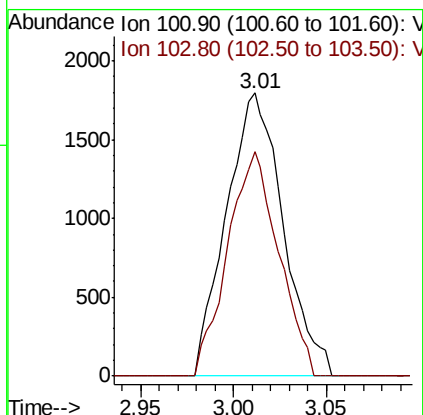
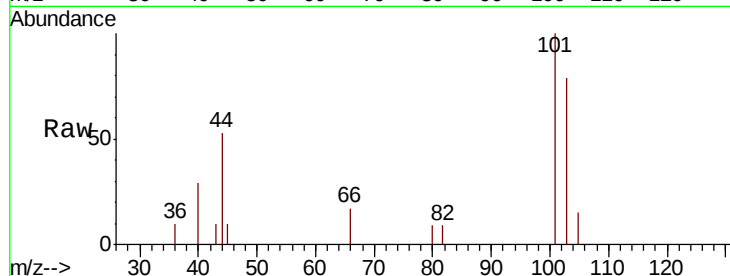


#7

Trichlorofluoromethane
 Concen: 0.743 ug/l
 RT: 3.01 min Scan# 385
 Delta R.T. -0.00 min
 Lab File: VN056707.D
 Acq: 15 Jul 2019 13:20

Instrument :
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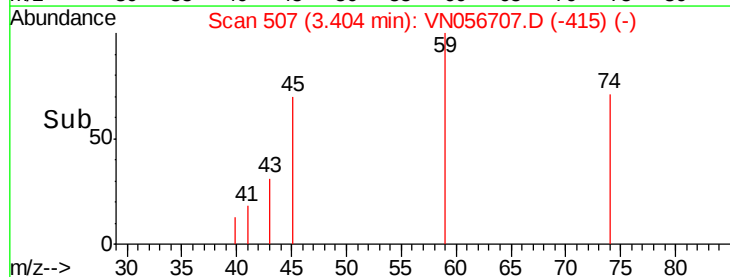
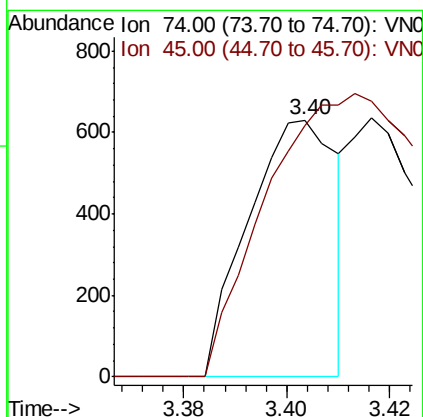
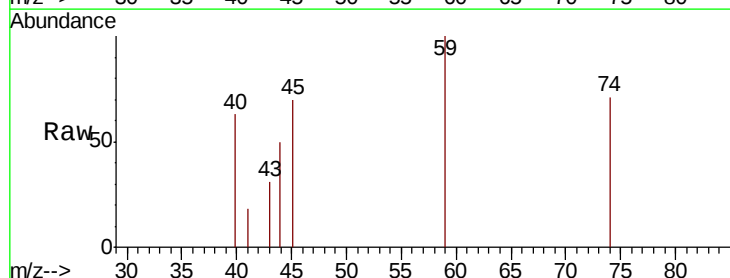
Tot Ion: 101 Resp: 3830
 Ion Ratio Lower Upper
 101 100
 103 79.2 51.5 77.3#

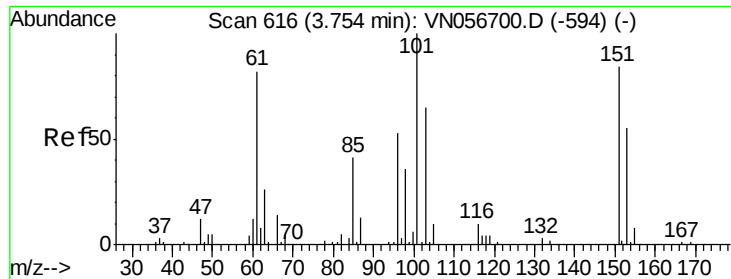


#8

Diethyl Ether
 Concen: 0.372 ug/l
 RT: 3.40 min Scan# 507
 Delta R.T. -0.00 min
 Lab File: VN056707.D
 Acq: 15 Jul 2019 13:20

Tgt Ion: 74 Resp: 748
 Ion Ratio Lower Upper
 74 100
 45 214.4 49.4 148.2#





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.736 ug/l

RT: 3.76 min Scan# 619

Delta R.T. 0.01 min

Lab File: VN056707.D

Acq: 15 Jul 2019 13:20

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

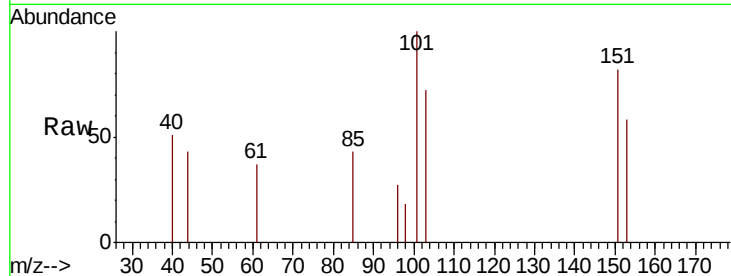
Tot Ion:101 Resp: 2281

Ion Ratio Lower Upper

101 100

85 40.9 33.3 49.9

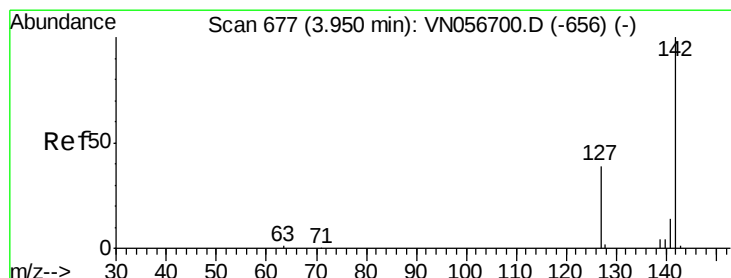
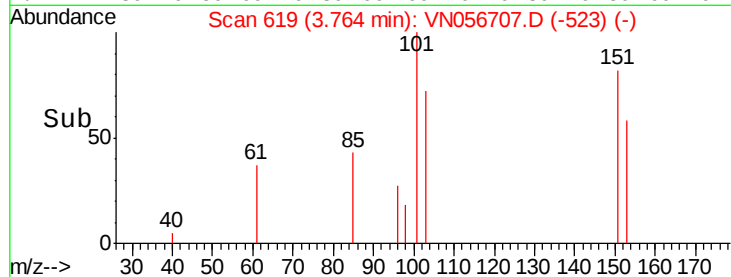
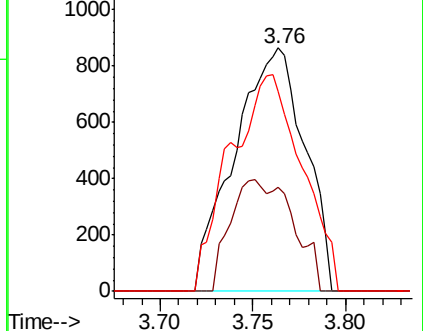
151 91.1 67.0 100.6



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: 0.508 ug/l

RT: 3.95 min Scan# 676

Delta R.T. -0.00 min

Lab File: VN056707.D

Acq: 15 Jul 2019 13:20

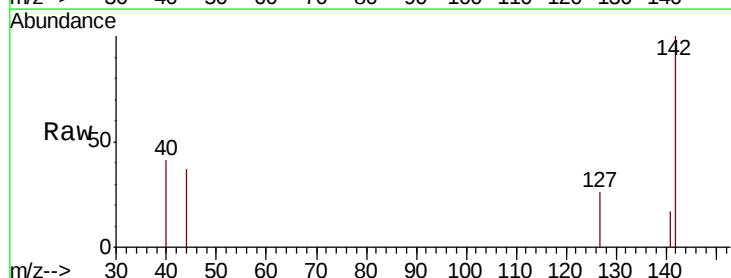
Tgt Ion:142 Resp: 2107

Ion Ratio Lower Upper

142 100

127 27.6 30.7 46.1#

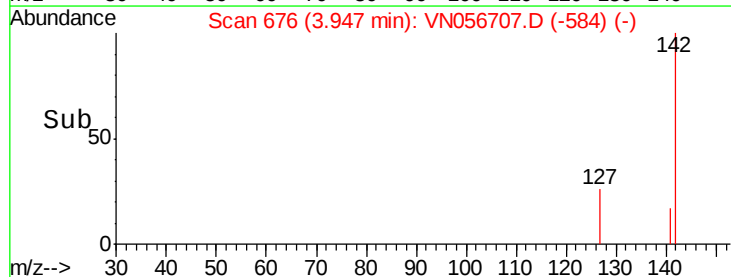
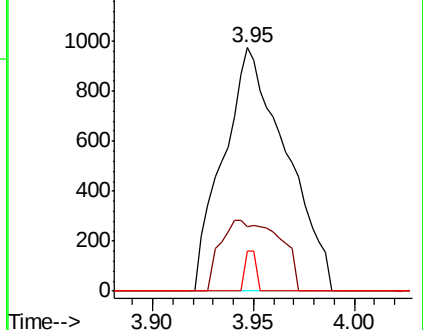
141 2.9 11.3 16.9#

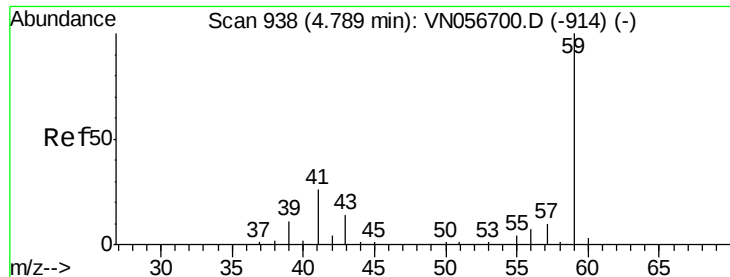


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

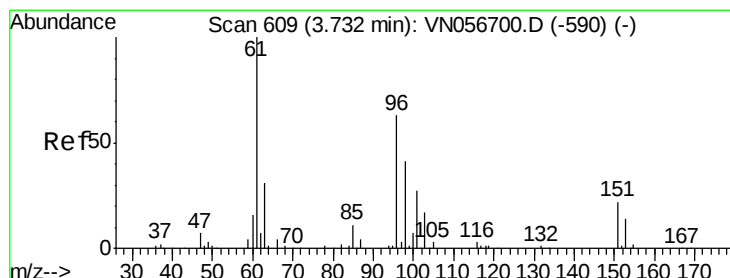
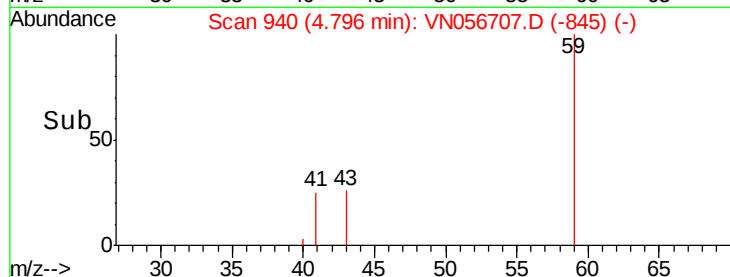
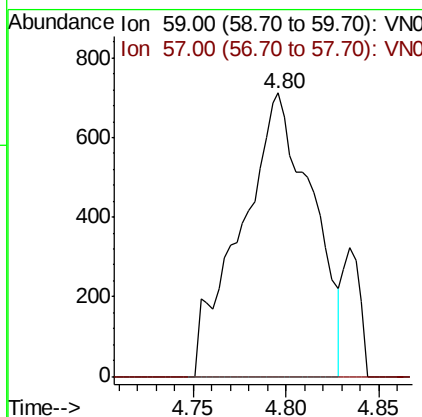
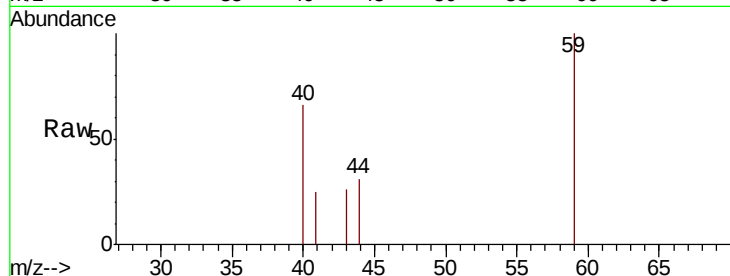




#11
Tert butyl alcohol
Concen: 3.130 ug/l
RT: 4.80 min Scan# 940
Delta R.T. 0.01 min
Lab File: VN056707.D
Acq: 15 Jul 2019 13:20

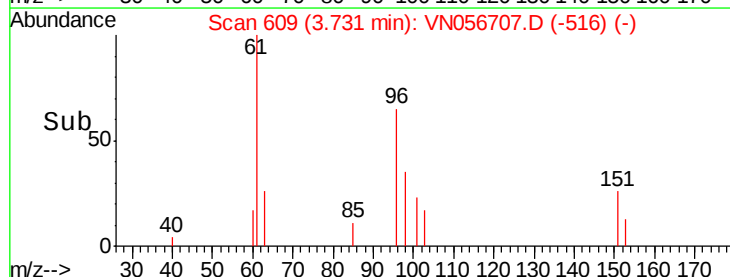
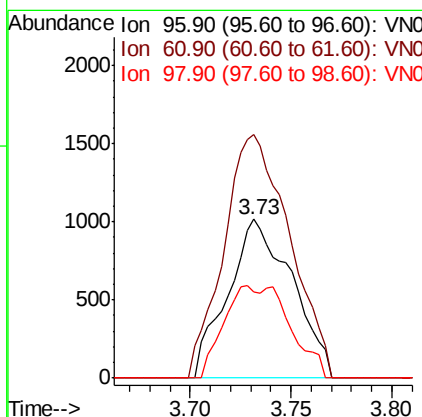
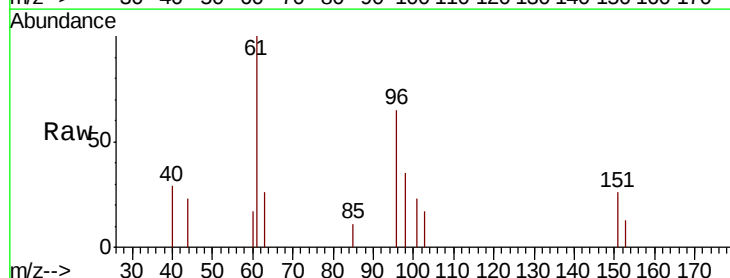
Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT3-2019

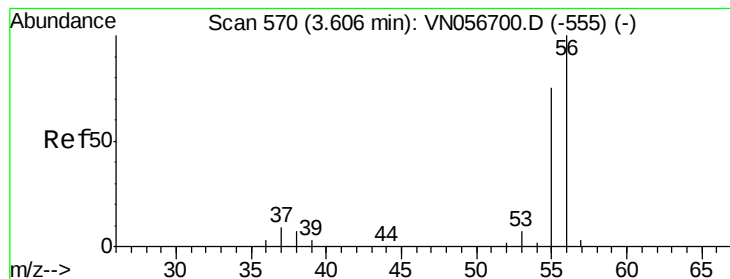
Tot Ion: 59 Resp: 1905
Ion Ratio Lower Upper
59 100
57 0.0 8.0 12.0#



#12
1,1-Dichloroethene
Concen: 0.726 ug/l
RT: 3.73 min Scan# 609
Delta R.T. -0.00 min
Lab File: VN056707.D
Acq: 15 Jul 2019 13:20

Tgt Ion: 96 Resp: 2255
Ion Ratio Lower Upper
96 100
61 153.3 126.6 189.8
98 54.0 51.4 77.2





#13

Acrolein

Concen: 16.523 ug/l

RT: 3.61 min Scan# 572

Delta R.T. 0.01 min

Lab File: VN056707.D

Acq: 15 Jul 2019 13:20

Instrument :

MSVOA_N

ClientSampleId :

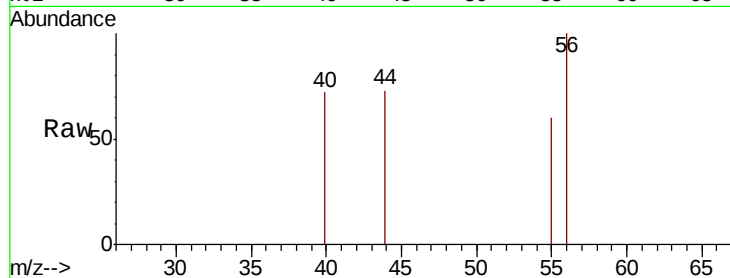
LOD-MDL-WATER-01-QT3-2019

Tot Ion: 56 Resp: 1271

Ion Ratio Lower Upper

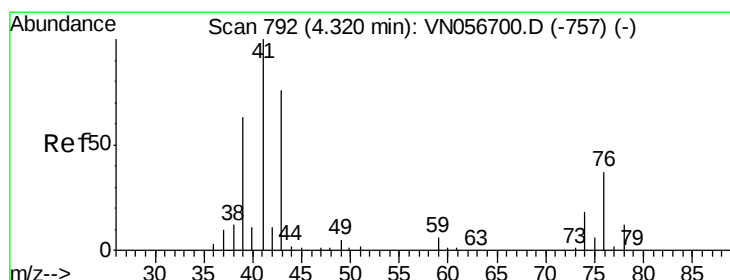
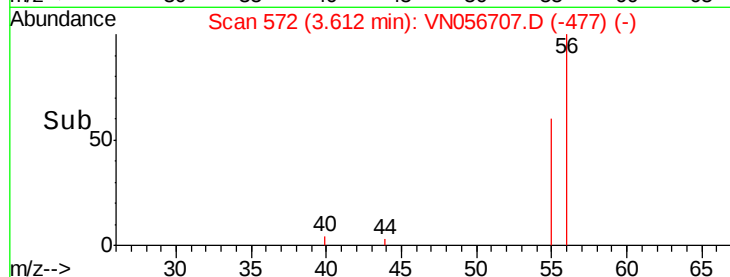
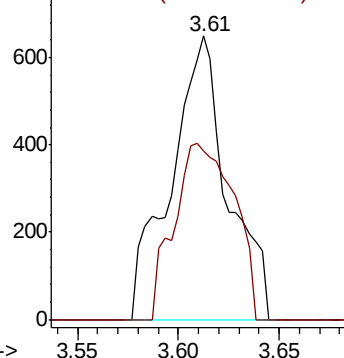
56 100

55 65.8 58.0 87.0



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Allyl chloride

Concen: 0.773 ug/l

RT: 4.31 min Scan# 790

Delta R.T. -0.01 min

Lab File: VN056707.D

Acq: 15 Jul 2019 13:20

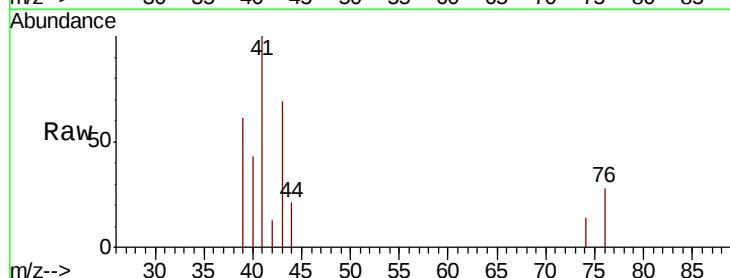
Tgt Ion: 41 Resp: 4154

Ion Ratio Lower Upper

41 100

39 58.4 46.9 70.3

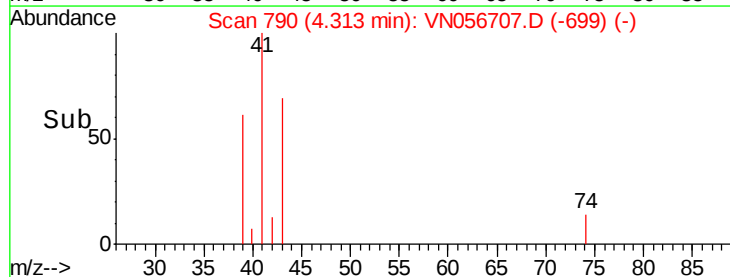
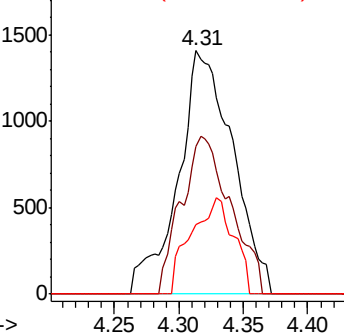
76 30.7 26.5 39.7

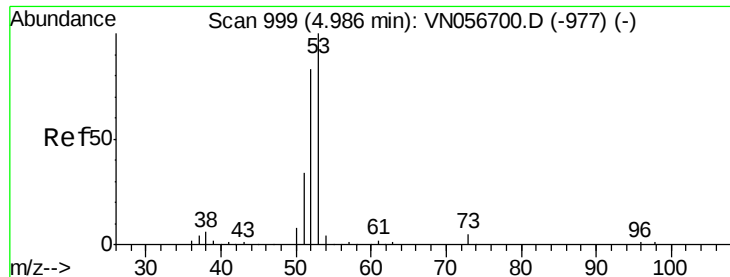


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





#15

Acrylonitrile

Concen: 1.152 ug/l

RT: 4.99 min Scan# 999

Delta R.T. -0.00 min

Lab File: VN056707.D

Acq: 15 Jul 2019 13:20

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

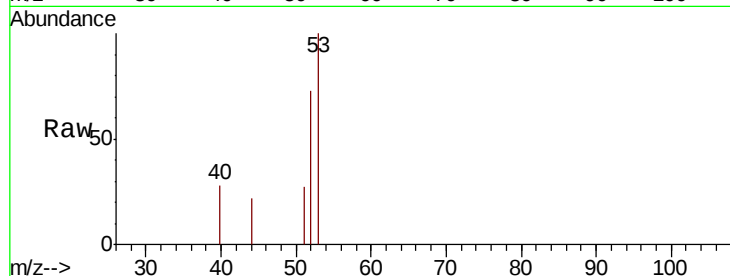
Tot Ion: 53 Resp: 2025

Ion Ratio Lower Upper

53 100

52 246.0 66.6 99.8#

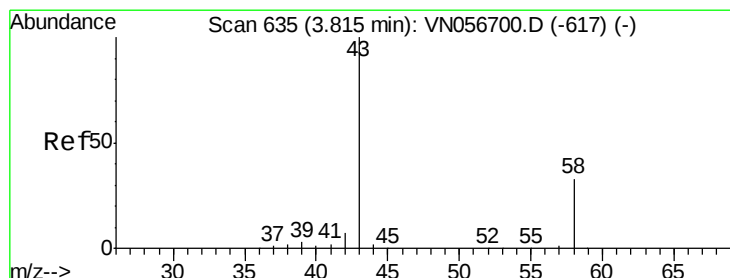
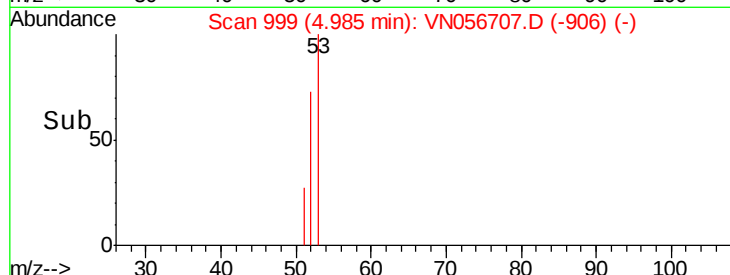
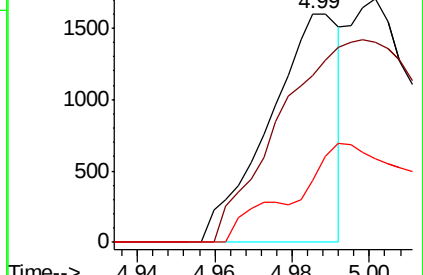
51 68.8 28.4 42.6#



Abundance Ion 53.00 (52.70 to 53.70): VN056707.D (-977) (-)

Ion 52.00 (51.70 to 52.70): VN056707.D (-977) (-)

Ion 51.00 (50.70 to 51.70): VN056707.D (-977) (-)



#16

Acetone

Concen: 3.860 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN056707.D

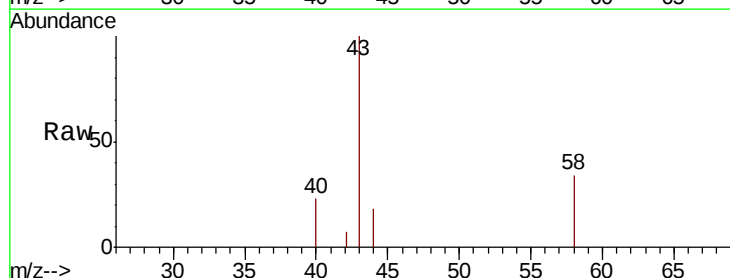
Acq: 15 Jul 2019 13:20

Tgt Ion: 43 Resp: 6505

Ion Ratio Lower Upper

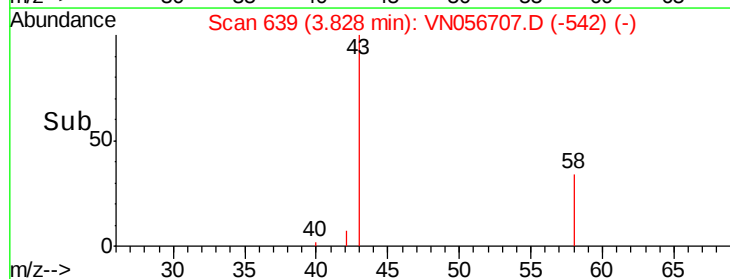
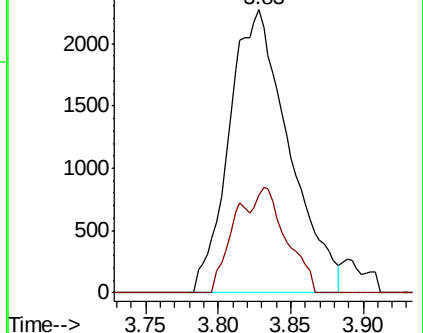
43 100

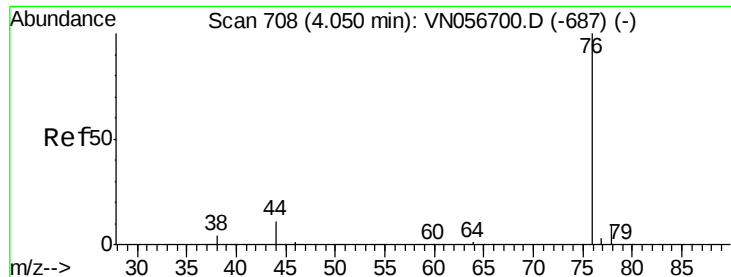
58 34.4 26.7 40.1



Abundance Ion 43.00 (42.70 to 43.70): VN056707.D (-542) (-)

Ion 58.00 (57.70 to 58.70): VN056707.D (-542) (-)

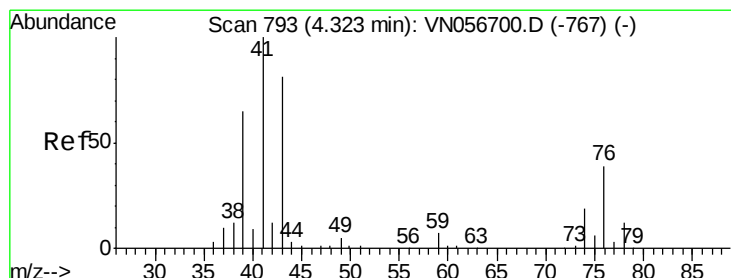
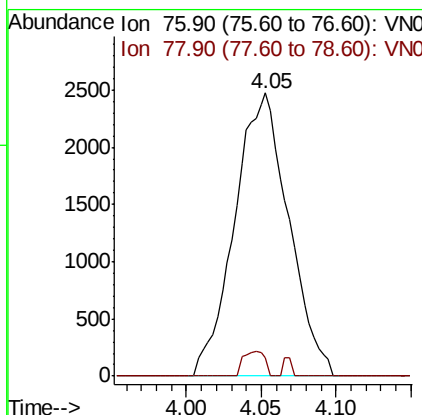
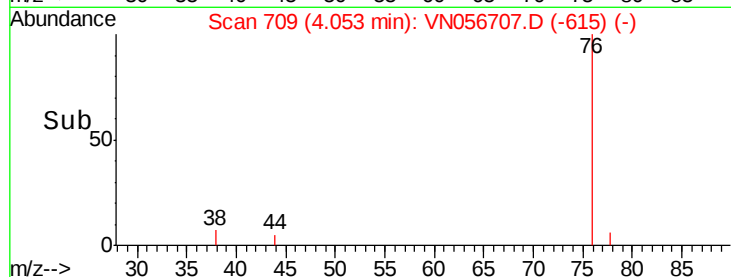
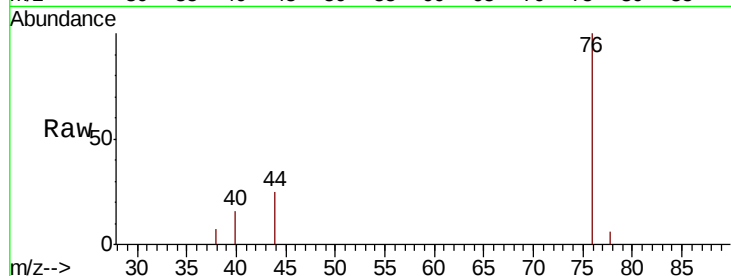




#17
Carbon Disulfide
Concen: 0.757 ug/l
RT: 4.05 min Scan# 709
Delta R.T. 0.00 min
Lab File: VN056707.D
Acq: 15 Jul 2019 13:20

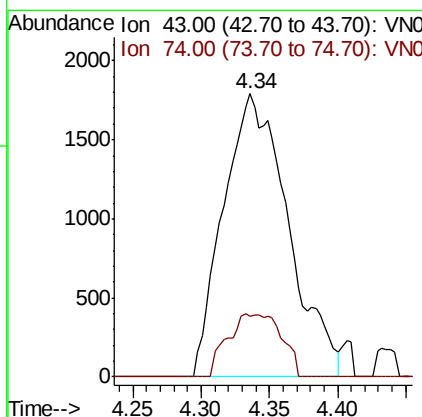
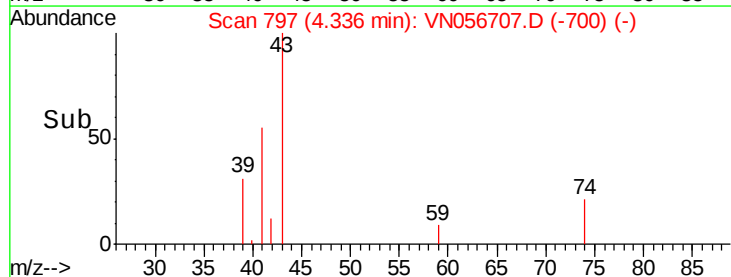
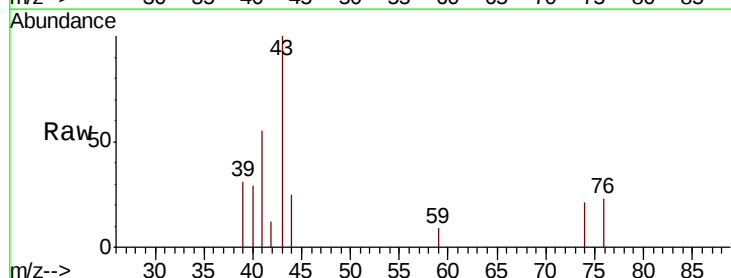
Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT3-2019

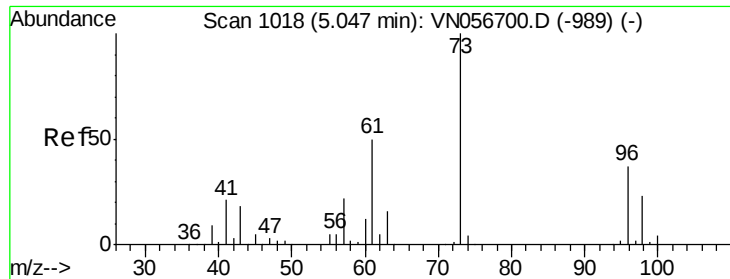
Tot Ion: 76 Resp: 6220
Ion Ratio Lower Upper
76 100
78 6.5 7.4 11.0#



#18
Methyl Acetate
Concen: 0.595 ug/l
RT: 4.34 min Scan# 797
Delta R.T. 0.01 min
Lab File: VN056707.D
Acq: 15 Jul 2019 13:20

Tgt Ion: 43 Resp: 5893
Ion Ratio Lower Upper
43 100
74 18.4 18.9 28.3#

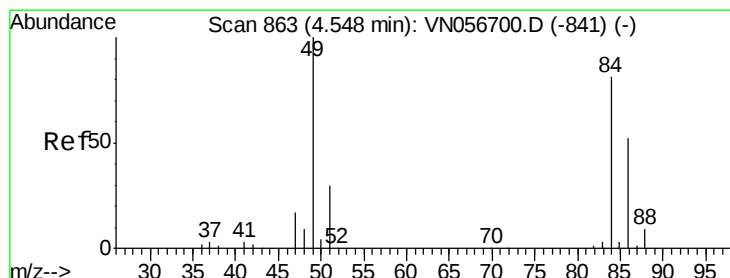
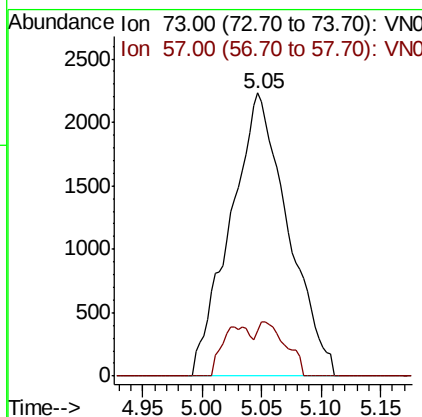
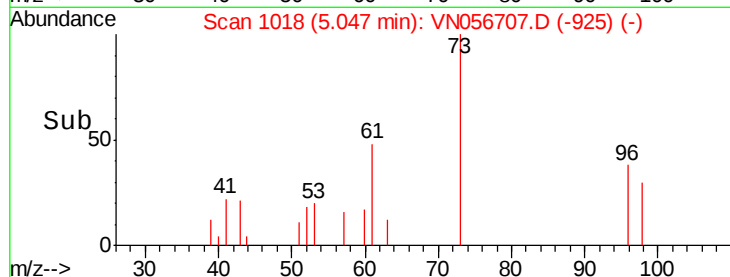
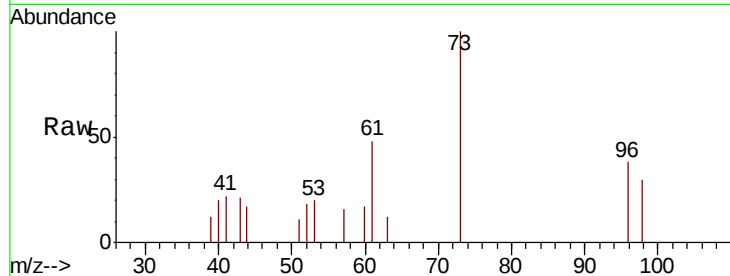




#19
Methyl tert-butyl Ether
Concen: 0.753 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. -0.00 min
Lab File: VN056707.D
Acq: 15 Jul 2019 13:20

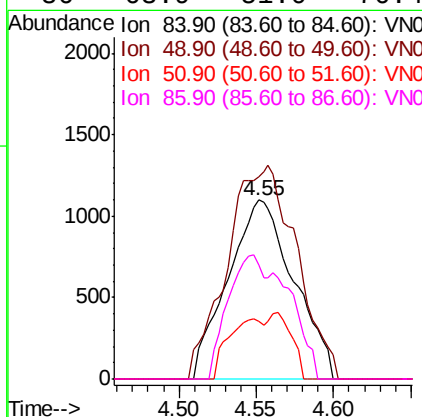
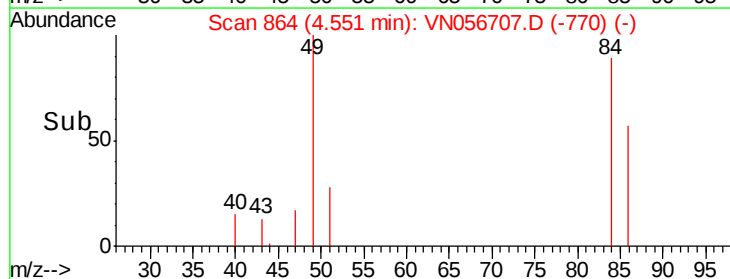
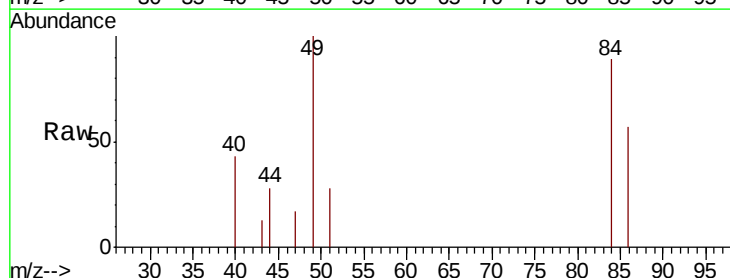
Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT3-2019

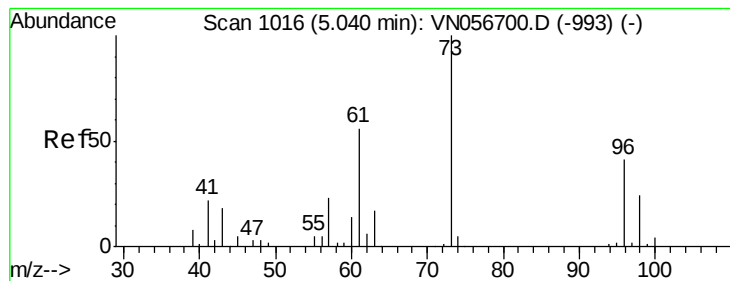
Tot Ion: 73 Resp: 7457
Ion Ratio Lower Upper
73 100
57 16.0 17.9 26.9#



#20
Methylene Chloride
Concen: 0.883 ug/l
RT: 4.55 min Scan# 864
Delta R.T. 0.00 min
Lab File: VN056707.D
Acq: 15 Jul 2019 13:20

Tgt Ion: 84 Resp: 3252
Ion Ratio Lower Upper
84 100
49 112.9 98.2 147.4
51 32.1 29.6 44.4
86 63.9 51.0 76.4





#21

trans-1,2-Dichloroethene

Concen: 0.457 ug/l

RT: 5.05 min Scan# 1018

Delta R.T. 0.01 min

Lab File: VN056707.D

Acq: 15 Jul 2019 13:20

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

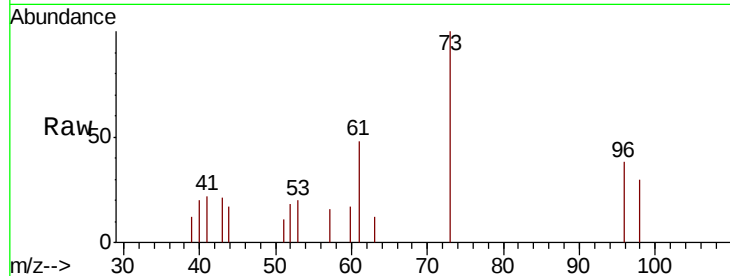
Tot Ion: 96 Resp: 1500

Ion Ratio Lower Upper

96 100

61 128.4 109.4 164.2

98 79.3 48.0 72.0#

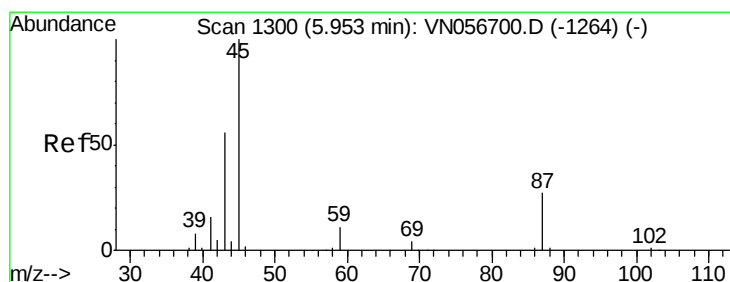
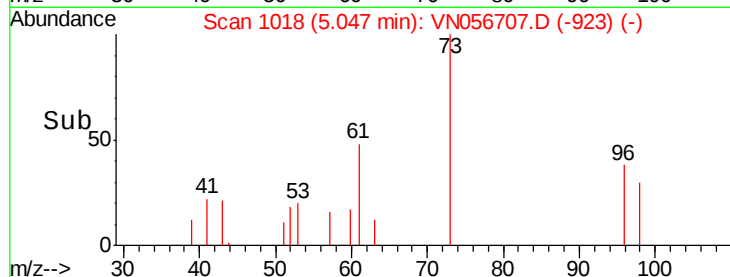
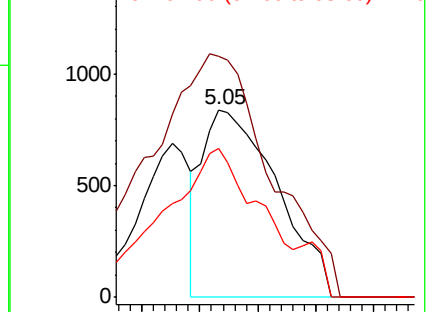


Abundance

Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#22

Diisopropyl ether

Concen: 0.708 ug/l

RT: 5.95 min Scan# 1300

Delta R.T. -0.00 min

Lab File: VN056707.D

Acq: 15 Jul 2019 13:20

Tgt Ion: 45 Resp: 7513

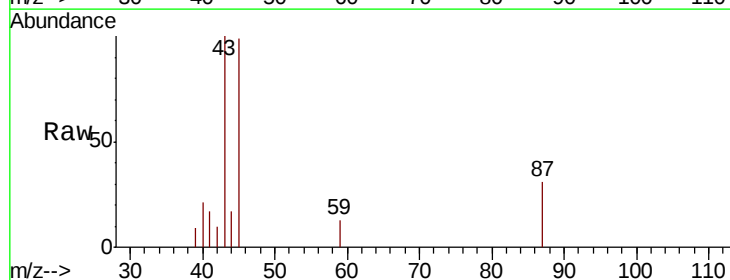
Ion Ratio Lower Upper

45 100

43 89.7 45.6 68.4#

87 31.3 22.0 33.0

59 12.7 9.3 13.9



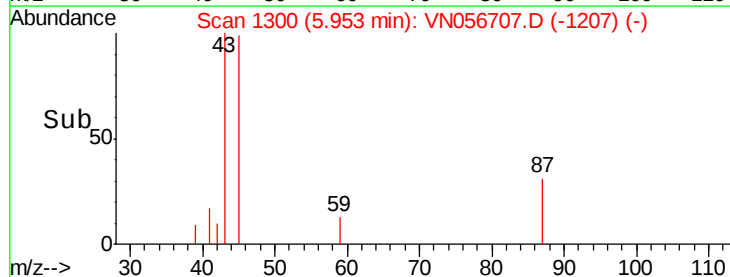
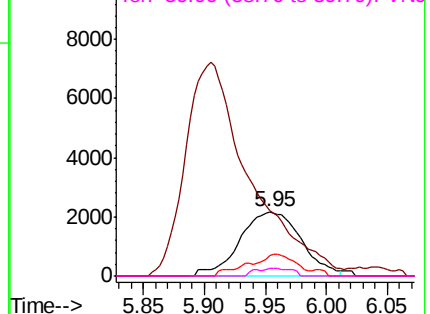
Abundance

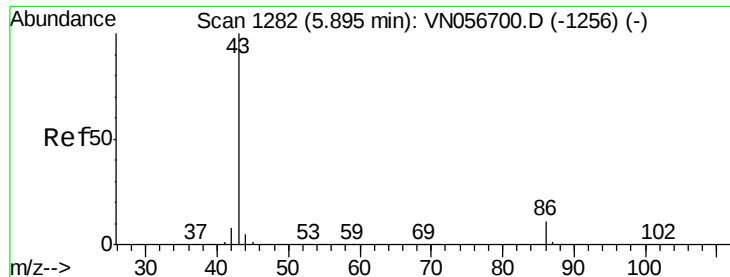
Ion 45.00 (44.70 to 45.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

Ion 59.00 (58.70 to 59.70): VN0





#23

Vinyl Acetate

Concen: 3.097 ug/l

RT: 5.91 min Scan# 1285

Delta R.T. 0.01 min

Lab File: VN056707.D

Acq: 15 Jul 2019 13:20

Instrument :

MSVOA_N

ClientSampleId :

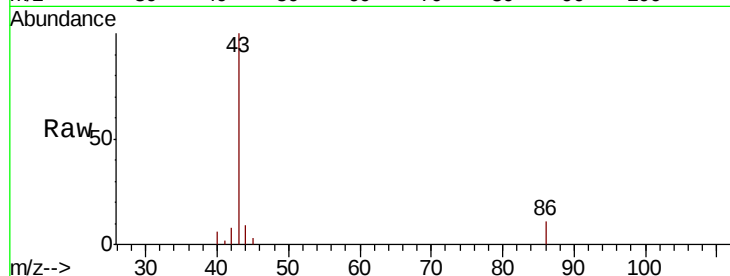
LOD-MDL-WATER-01-QT3-2019

Tot Ion: 43 Resp: 26625

Ion Ratio Lower Upper

43 100

86 10.7 8.5 12.7



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0

5.91

8000

6000

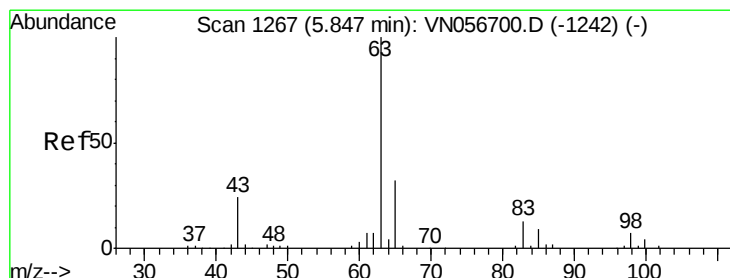
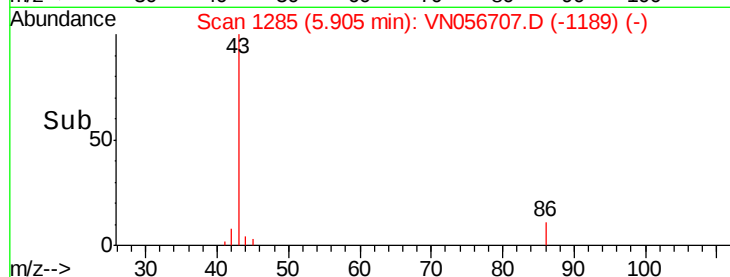
4000

2000

0

Time-->

5.80 5.90 6.00



#24

1,1-Dichloroethane

Concen: 0.737 ug/l

RT: 5.85 min Scan# 1267

Delta R.T. -0.00 min

Lab File: VN056707.D

Acq: 15 Jul 2019 13:20

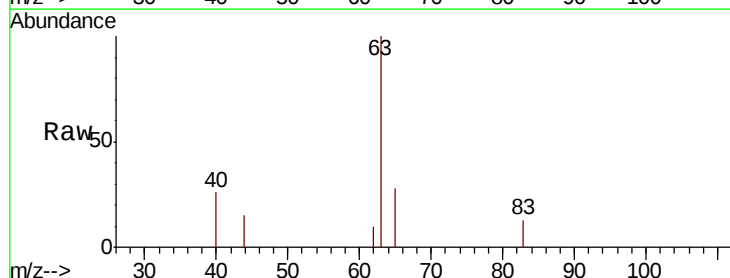
Tgt Ion: 63 Resp: 4534

Ion Ratio Lower Upper

63 100

98 0.0 3.3 9.9#

100 0.0 2.0 5.8#



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

2000

1500

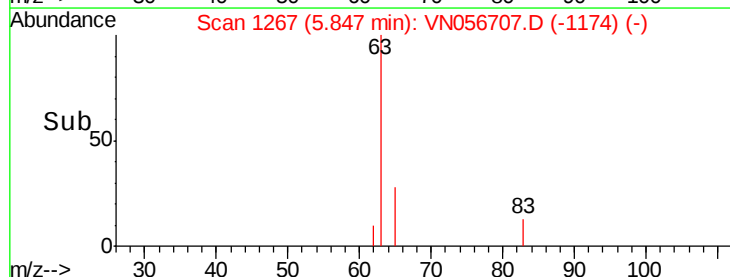
1000

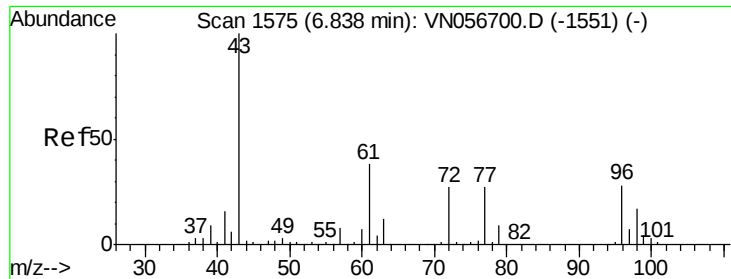
500

0

Time-->

5.75 5.80 5.85 5.90





#25

2-Butanone

Concen: 3.435 ug/l

RT: 6.85 min Scan# 1580

Delta R.T. 0.02 min

Lab File: VN056707.D

Acq: 15 Jul 2019 13:20

Instrument :

MSVOA_N

ClientSampleId :

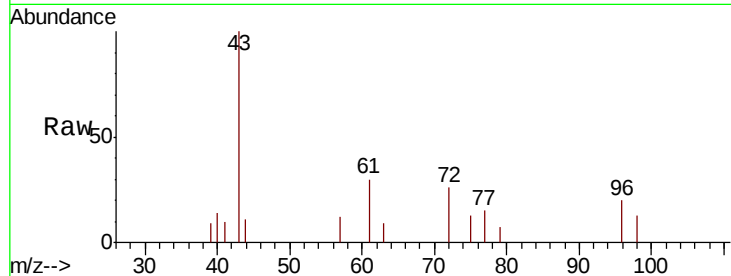
LOD-MDL-WATER-01-QT3-2019

Tot Ion: 43 Resp: 8461

Ion Ratio Lower Upper

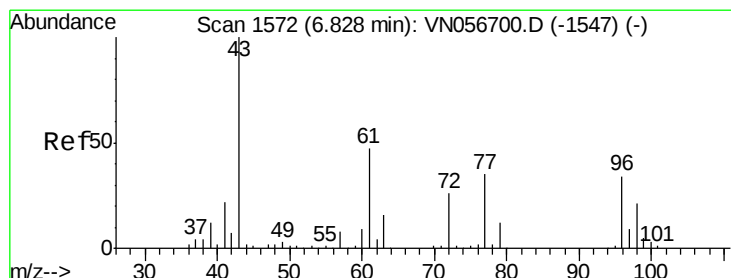
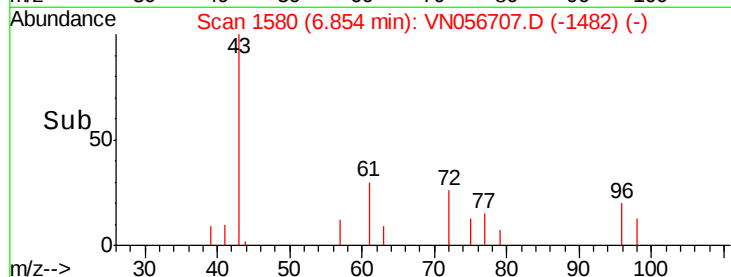
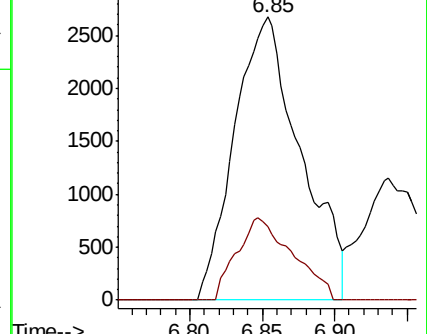
43 100

72 25.9 21.2 31.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#26

2,2-Dichloropropane

Concen: 0.772 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. -0.00 min

Lab File: VN056707.D

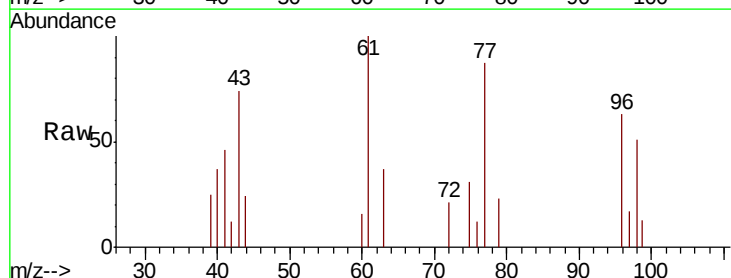
Acq: 15 Jul 2019 13:20

Tgt Ion: 77 Resp: 3425

Ion Ratio Lower Upper

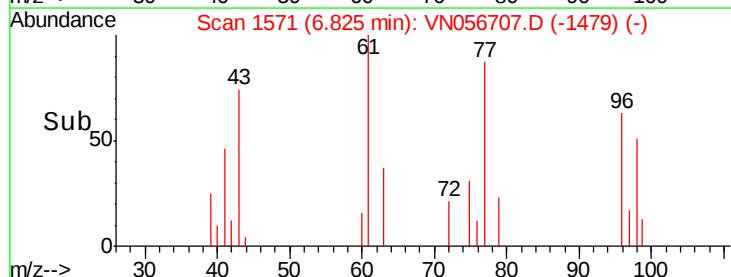
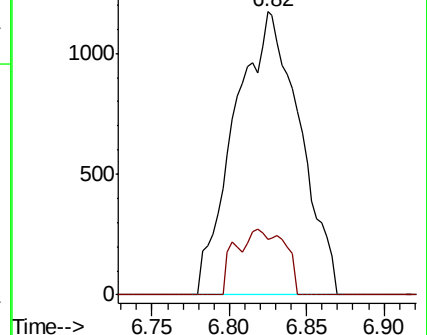
77 100

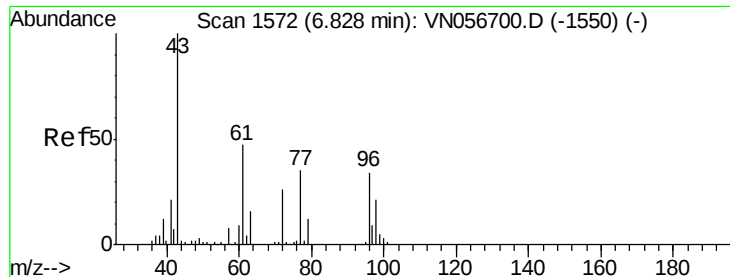
97 13.1 12.2 36.6



Abundance Ion 76.90 (76.60 to 77.60): VN0

Ion 96.90 (96.60 to 97.60): VN0





#27

cis-1,2-Dichloroethene

Concen: 0.748 ug/l

RT: 6.84 min Scan# 1575

Delta R.T. 0.01 min

Lab File: VN056707.D

Acq: 15 Jul 2019 13:20

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

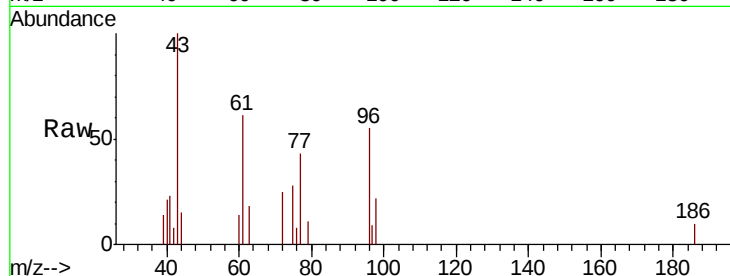
Tot Ion: 96 Resp: 2826

Ion Ratio Lower Upper

96 100

61 147.7 0.0 281.4

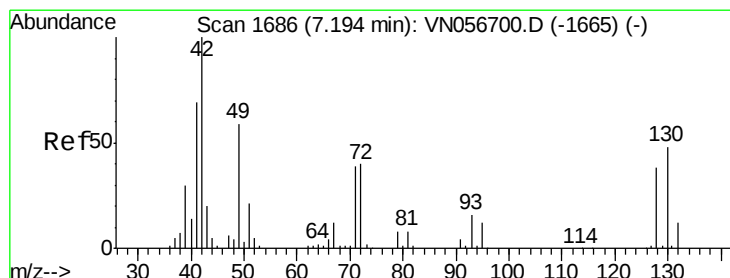
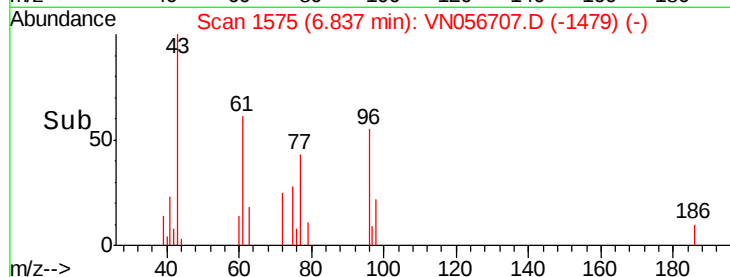
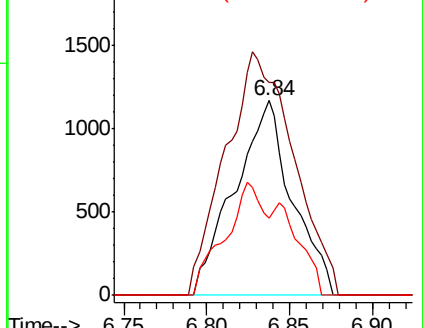
98 40.3 0.0 127.8



Abundance Ion 95.90 (95.60 to 96.60): VN056707.D (-1550) (-)

Ion 60.90 (60.60 to 61.60): VN056707.D (-1550) (-)

Ion 97.90 (97.60 to 98.60): VN056707.D (-1550) (-)



#28

Bromochloromethane

Concen: 0.671 ug/l

RT: 7.19 min Scan# 1685

Delta R.T. -0.00 min

Lab File: VN056707.D

Acq: 15 Jul 2019 13:20

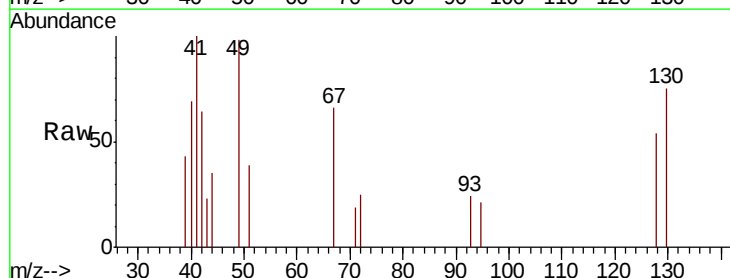
Tgt Ion: 49 Resp: 1939

Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.0

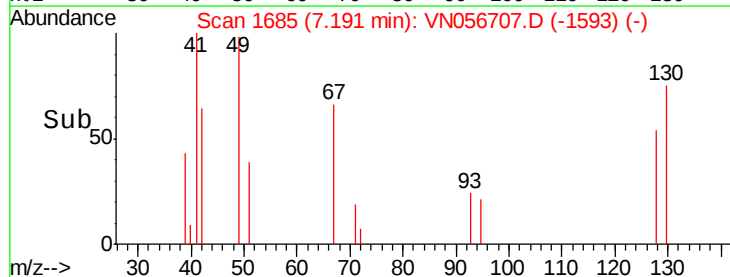
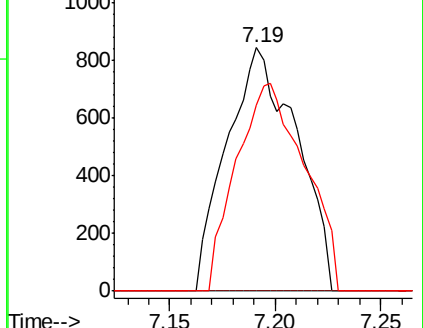
130 83.3 64.7 97.1

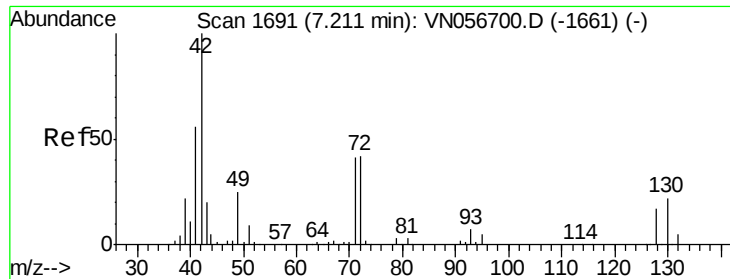


Abundance Ion 48.90 (48.60 to 49.60): VN056707.D (-1665) (-)

Ion 128.80 (128.50 to 129.50): VN056707.D (-1665) (-)

Ion 129.80 (129.50 to 130.50): VN056707.D (-1665) (-)

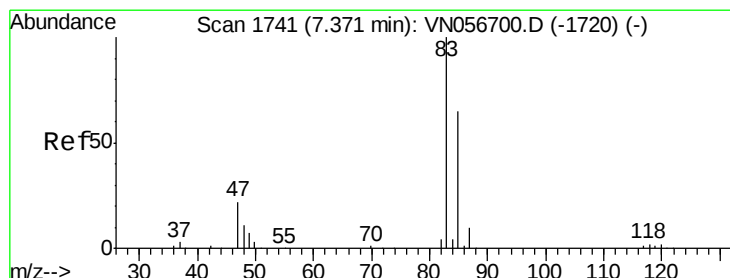
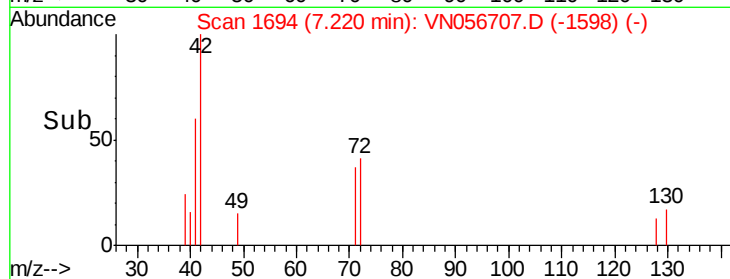
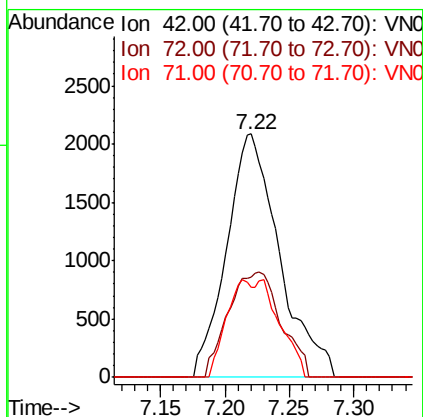
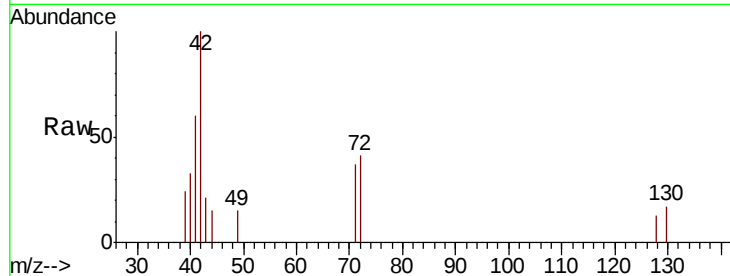




#29
Tetrahydrofuran
Concen: 3.698 ug/l
RT: 7.22 min Scan# 1694
Delta R.T. 0.01 min
Lab File: VN056707.D
Acq: 15 Jul 2019 13:20

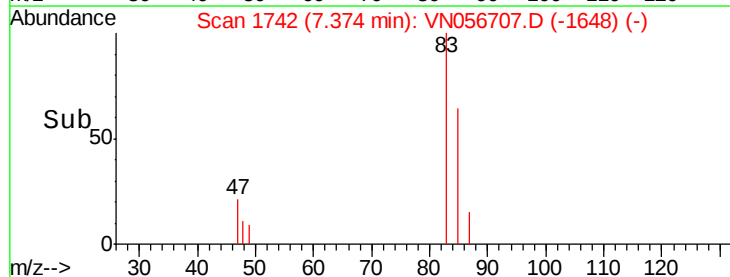
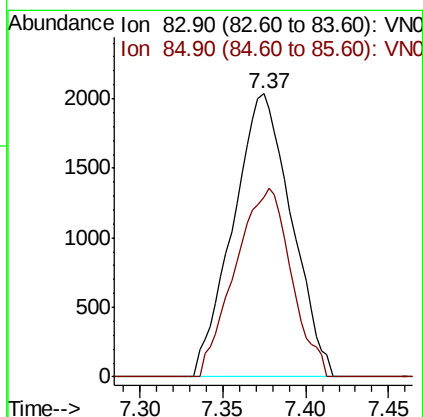
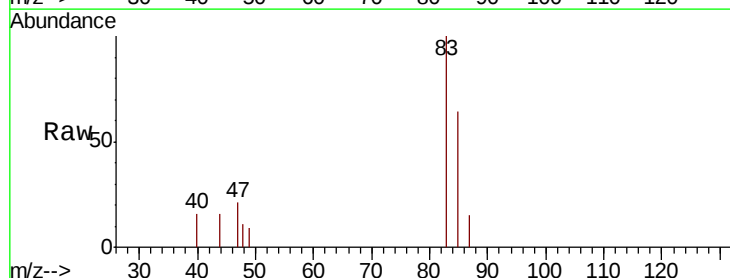
Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT3-2019

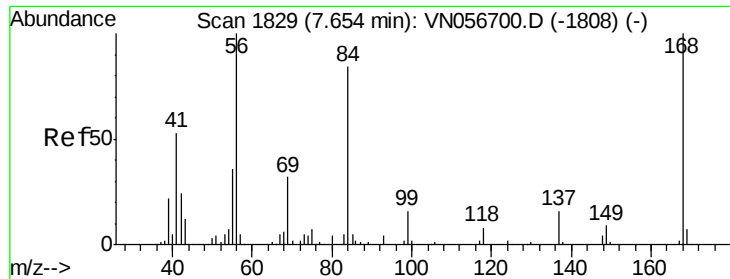
Tot Ion: 42 Resp: 5942
Ion Ratio Lower Upper
42 100
72 43.1 33.5 50.3
71 21.3 31.8 47.8#



#30
Chloroform
Concen: 0.810 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN056707.D
Acq: 15 Jul 2019 13:20

Tgt Ion: 83 Resp: 4985
Ion Ratio Lower Upper
83 100
85 63.7 51.9 77.9

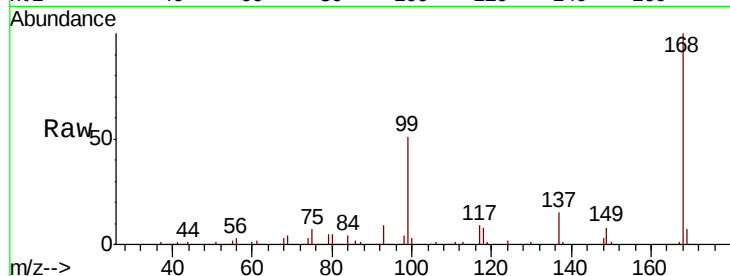




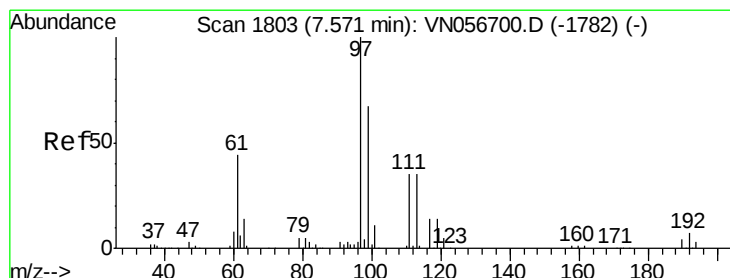
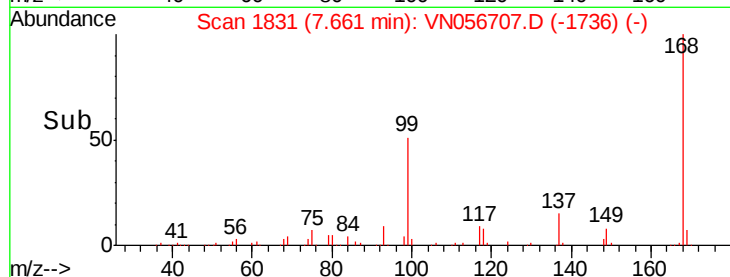
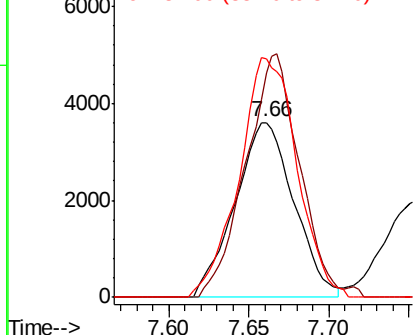
#31
Cyclohexane
Concen: 1.560 ug/l
RT: 7.66 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN056707.D
Acq: 15 Jul 2019 13:20

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT3-2019

Tot Ion: 56 Resp: 9120
Ion Ratio Lower Upper
56 100
69 127.8 25.8 38.8#
84 135.9 67.4 101.0#

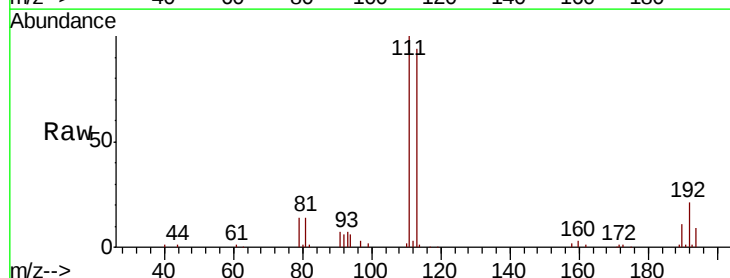


Abundance Ion 56.00 (55.70 to 56.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 84.00 (83.70 to 84.70): VNO

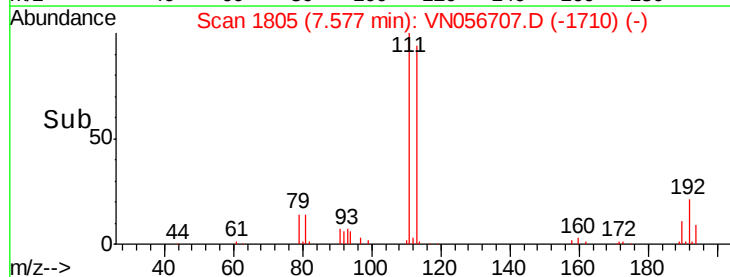
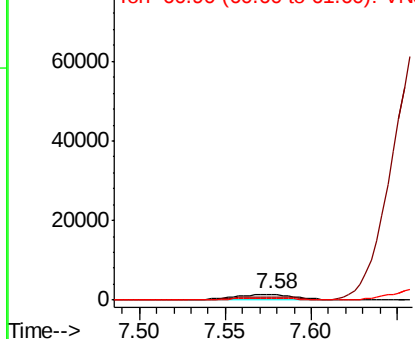


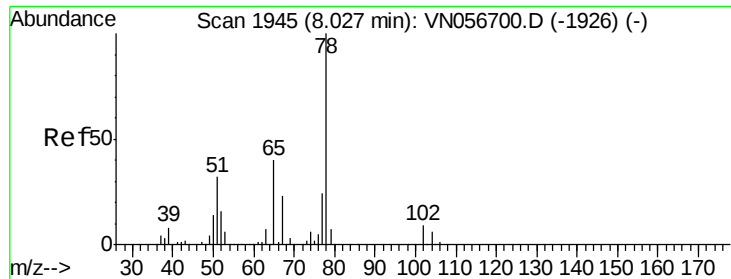
#32
1,1,1-Trichloroethane
Concen: 0.730 ug/l
RT: 7.58 min Scan# 1805
Delta R.T. 0.01 min
Lab File: VN056707.D
Acq: 15 Jul 2019 13:20

Tgt Ion: 97 Resp: 3551
Ion Ratio Lower Upper
97 100
99 0.0 52.0 78.0#
61 33.5 34.3 51.5#



Abundance Ion 96.90 (96.60 to 97.60): VNO
Ion 98.90 (98.60 to 99.60): VNO
Ion 60.90 (60.60 to 61.60): VNO

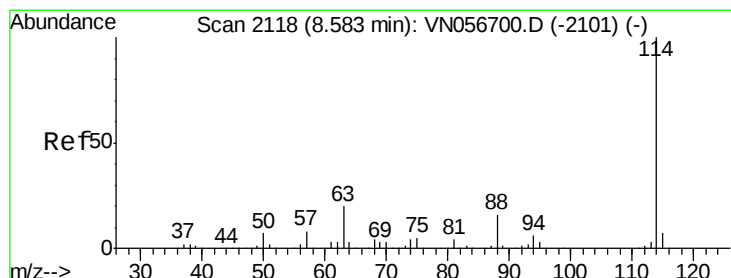
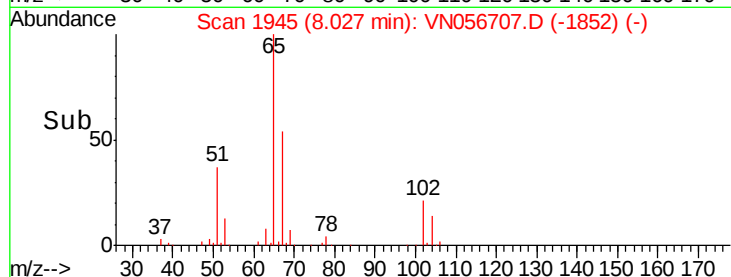
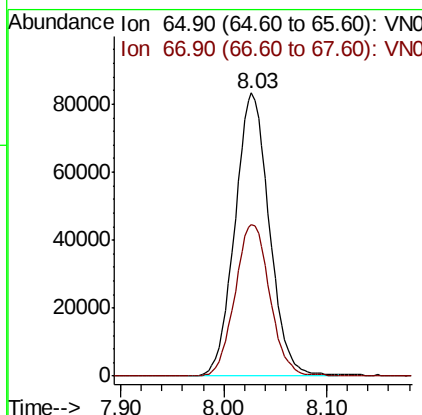
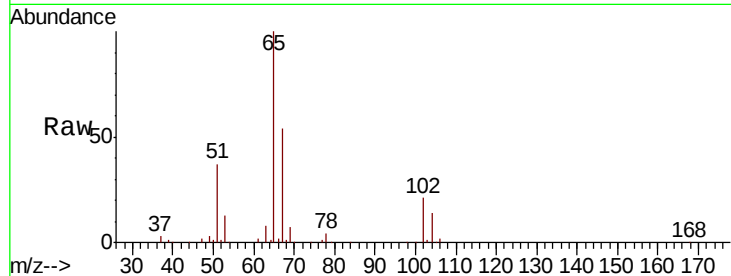




#33
 1,2-Dichloroethane-d4
 Concen: 52.813 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN056707.D
 Acq: 15 Jul 2019 13:20

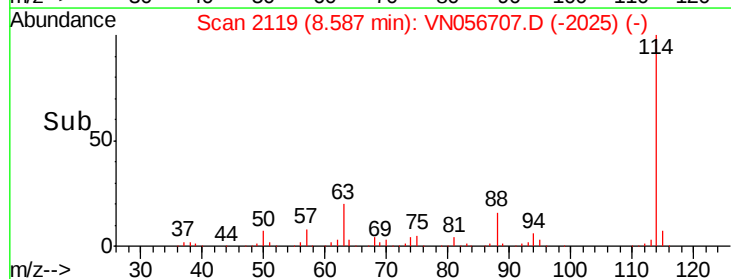
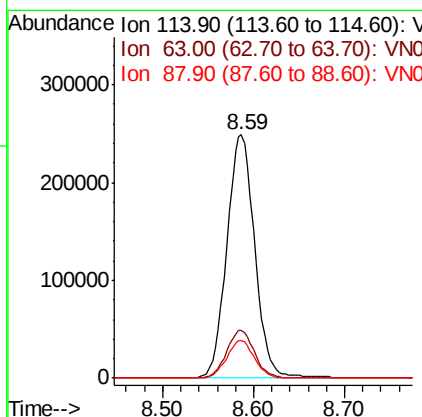
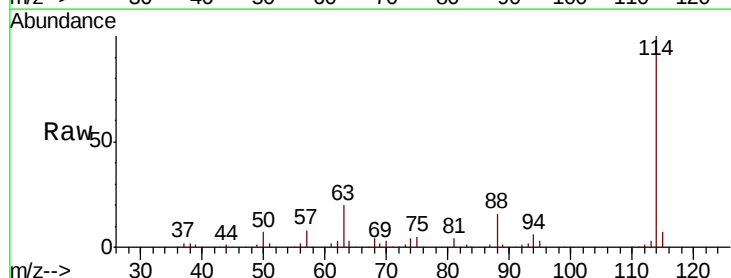
Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2019

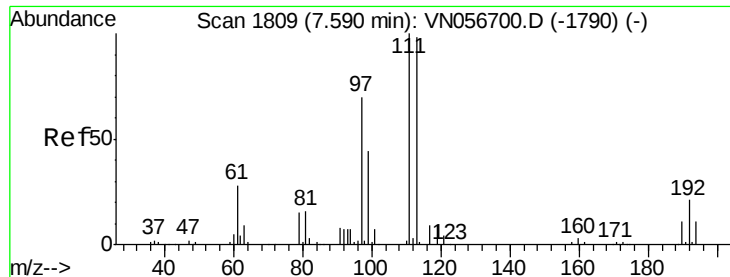
Tot Ion: 65 Resp: 193112
 Ion Ratio Lower Upper
 65 100
 67 54.1 0.0 109.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN056707.D
 Acq: 15 Jul 2019 13:20

Tgt Ion: 114 Resp: 529815
 Ion Ratio Lower Upper
 114 100
 63 19.6 0.0 39.4
 88 15.6 0.0 31.2

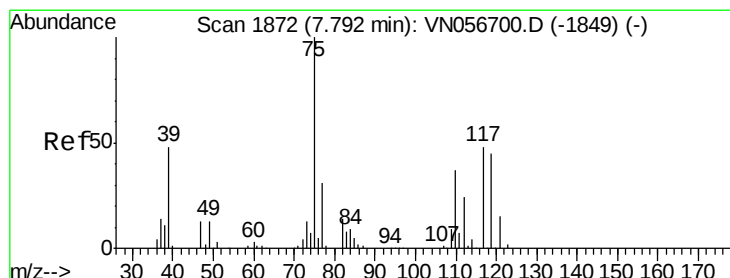
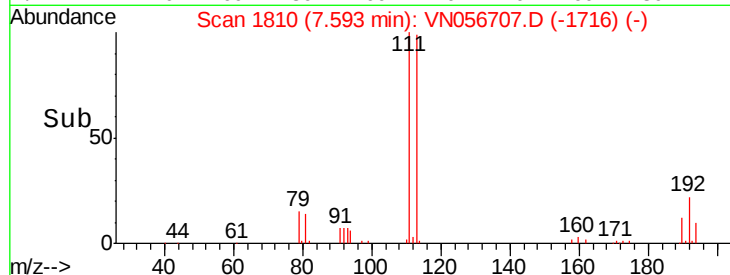
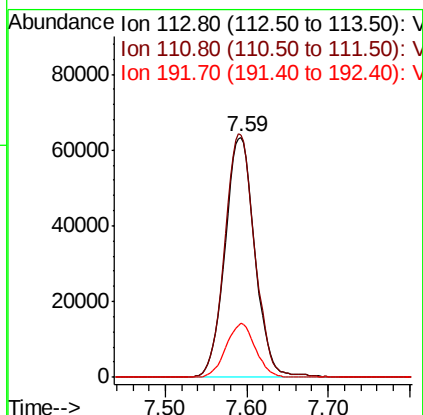
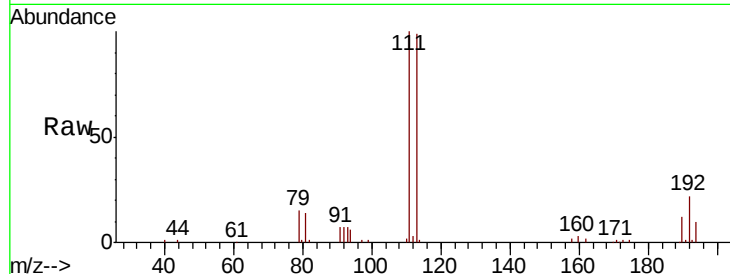




#35
 Dibromofluoromethane
 Concen: 49.452 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN056707.D
 Acq: 15 Jul 2019 13:20

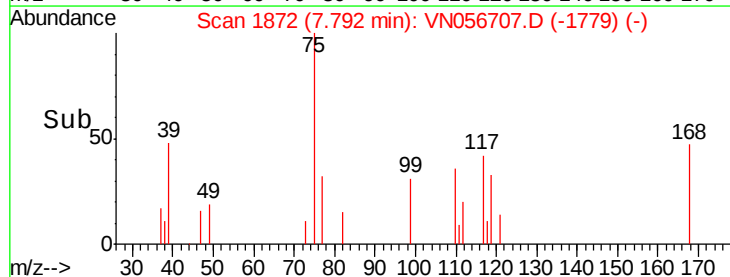
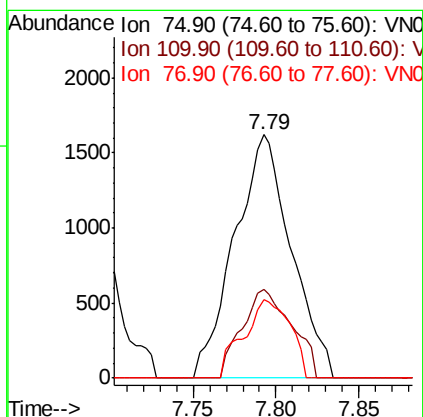
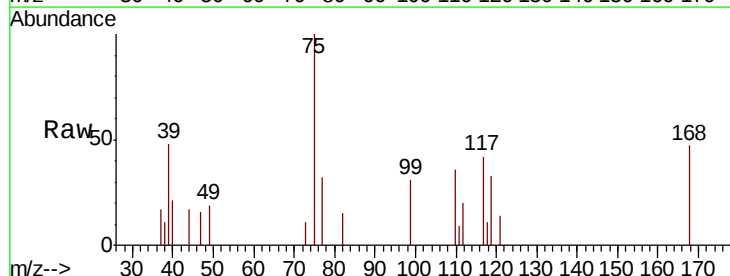
Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2019

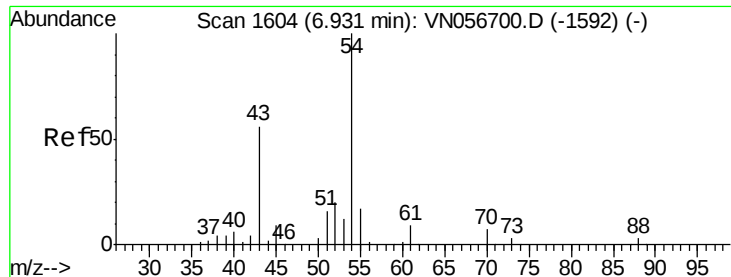
Tot Ion:113 Resp: 163051
 Ion Ratio Lower Upper
 113 100
 111 101.6 81.8 122.6
 192 22.0 17.5 26.3



#36
 1,1-Dichloropropene
 Concen: 0.784 ug/l
 RT: 7.79 min Scan# 1872
 Delta R.T. -0.00 min
 Lab File: VN056707.D
 Acq: 15 Jul 2019 13:20

Tgt Ion: 75 Resp: 3843
 Ion Ratio Lower Upper
 75 100
 110 32.0 18.4 55.4
 77 26.4 24.6 36.8

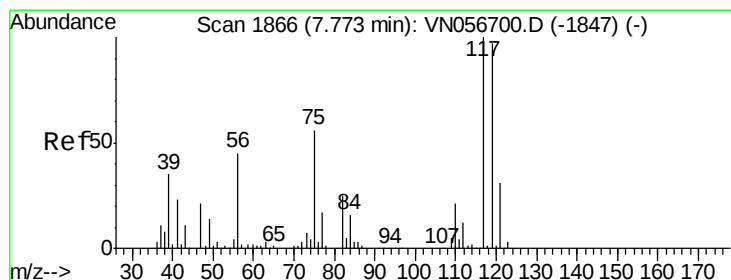
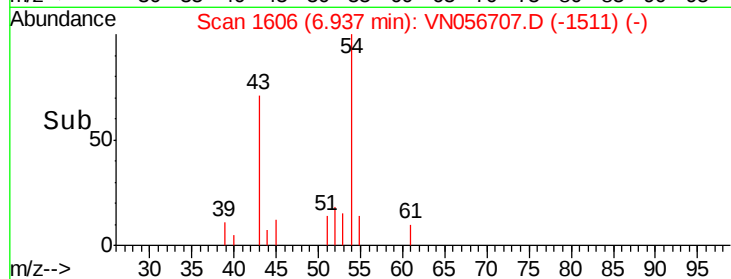
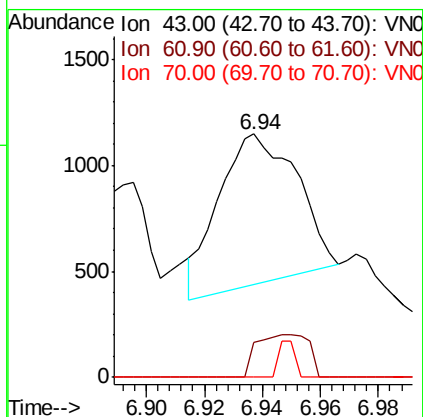
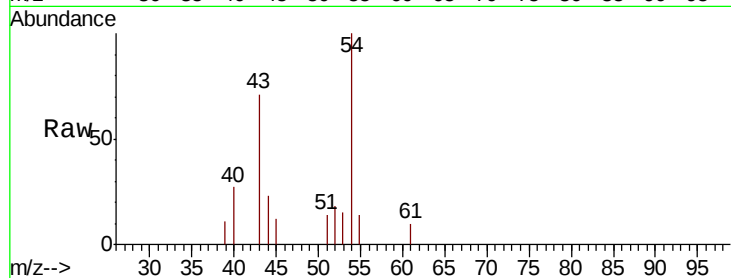




#37
Ethyl Acetate
Concen: 0.275 ug/l
RT: 6.94 min Scan# 1606
Delta R.T. 0.01 min
Lab File: VN056707.D
Acq: 15 Jul 2019 13:20

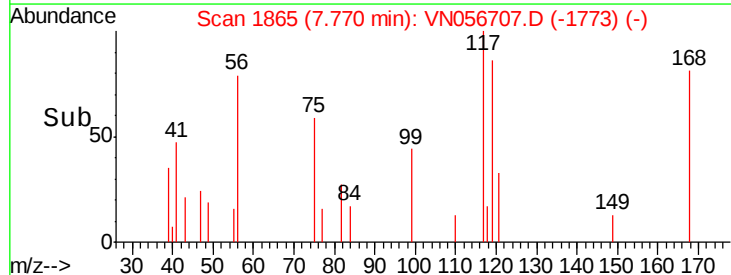
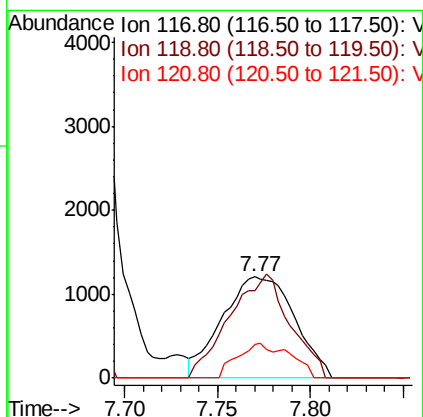
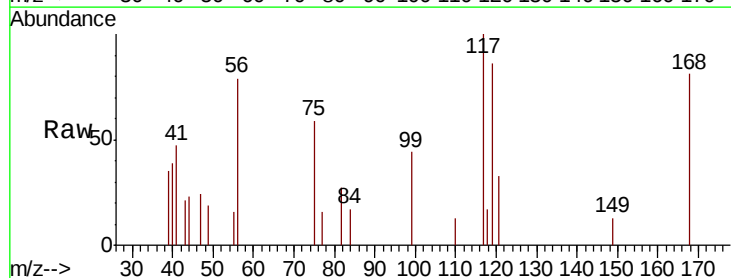
Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT3-2019

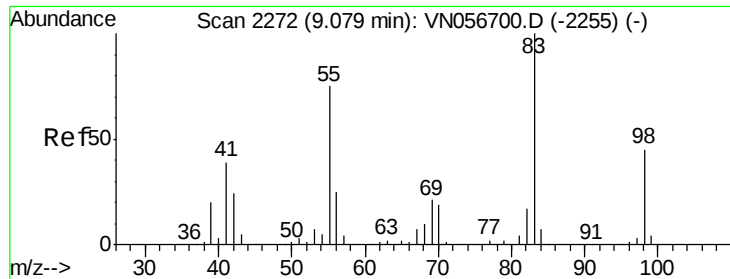
Tot Ion: 43 Resp: 1328
Ion Ratio Lower Upper
43 100
61 18.8 11.3 16.9#
70 4.9 8.5 12.7#



#38
Carbon Tetrachloride
Concen: 0.713 ug/l
RT: 7.77 min Scan# 1865
Delta R.T. -0.00 min
Lab File: VN056707.D
Acq: 15 Jul 2019 13:20

Tgt Ion: 117 Resp: 3277
Ion Ratio Lower Upper
117 100
119 85.9 77.5 116.3
121 32.7 24.7 37.1

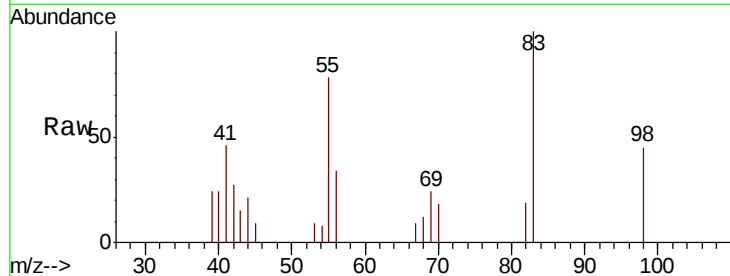




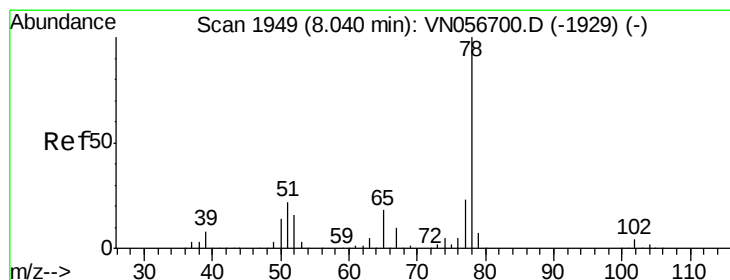
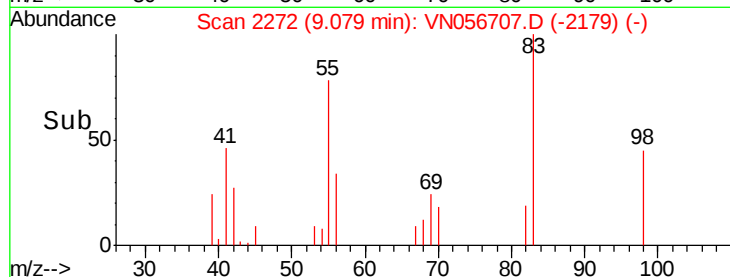
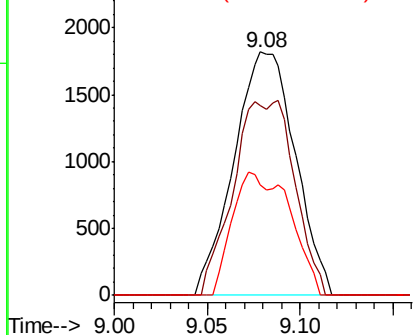
#39
Methvlcvclohexane
Concen: 0.693 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VN056707.D
Acq: 15 Jul 2019 13:20

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT3-2019

Tot Ion: 83 Resp: 4193
Ion Ratio Lower Upper
83 100
55 77.9 60.4 90.6
98 45.4 35.8 53.8

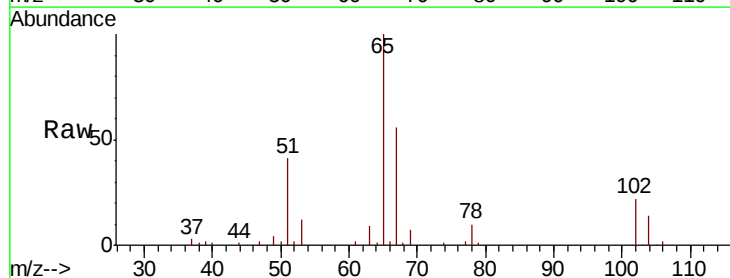


Abundance Ion 83.00 (82.70 to 83.70): VN0
Ion 55.00 (54.70 to 55.70): VN0
Ion 98.00 (97.70 to 98.70): VN0

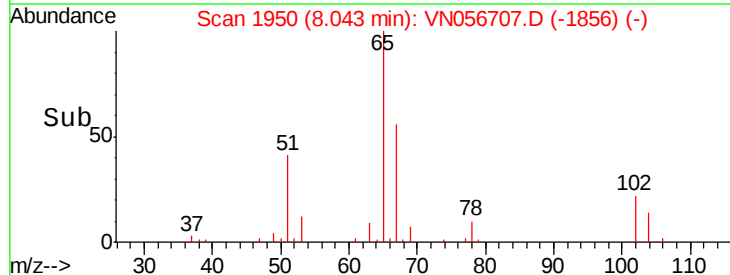
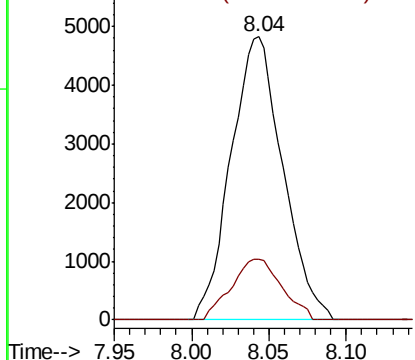


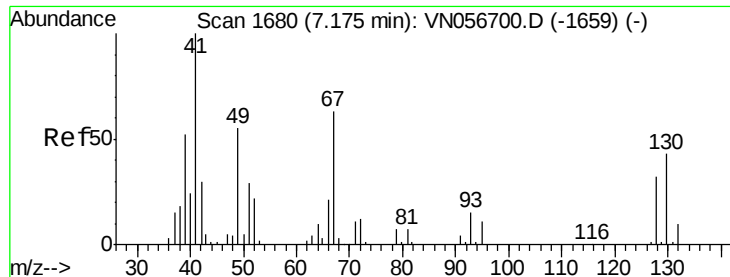
#40
Benzene
Concen: 0.749 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN056707.D
Acq: 15 Jul 2019 13:20

Tgt Ion: 78 Resp: 11251
Ion Ratio Lower Upper
78 100
77 21.6 18.6 27.8



Abundance Ion 78.00 (77.70 to 78.70): VN0
Ion 77.00 (76.70 to 77.70): VN0

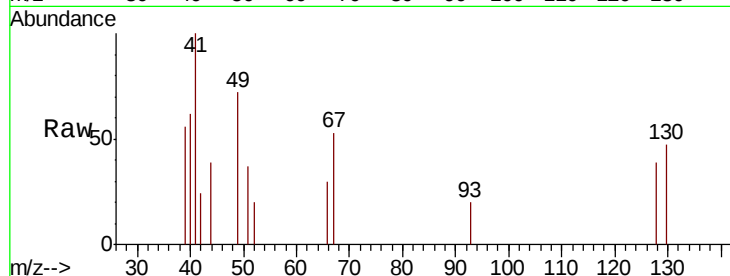




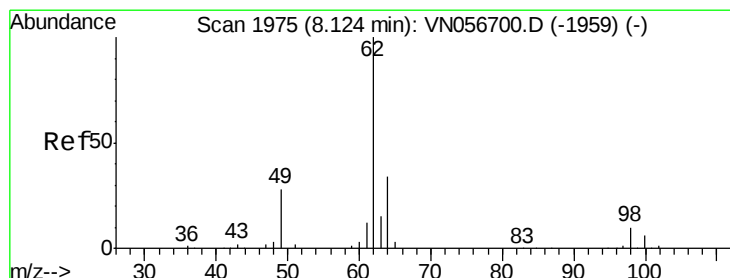
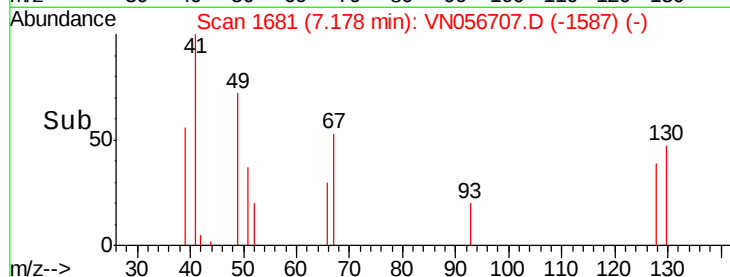
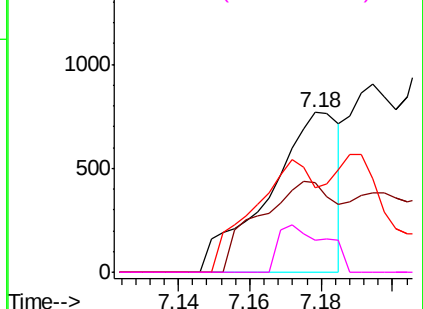
#41
Methacrylonitrile
Concen: 0.496 ug/l
RT: 7.18 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VN056707.D
Acq: 15 Jul 2019 13:20

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT3-2019

Tot Ion:	41	Resp:	1052
Ion	Ratio	Lower	Upper
41	100		
39	60.6	0.0	0.0#
67	61.0	0.0	0.0#
52	19.9	0.0	0.0#

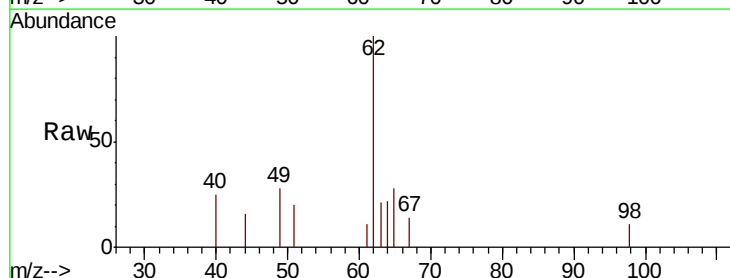


Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 39.00 (38.70 to 39.70): VNO
Ion 67.00 (66.70 to 67.70): VNO
Ion 52.00 (51.70 to 52.70): VNO

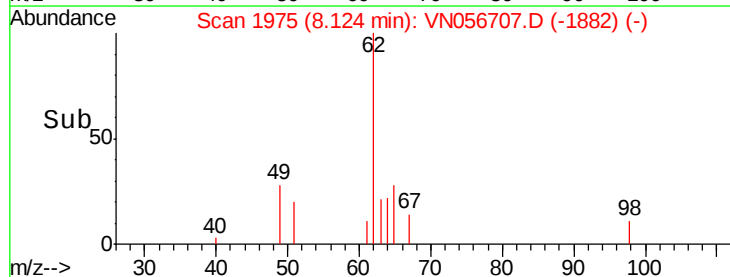
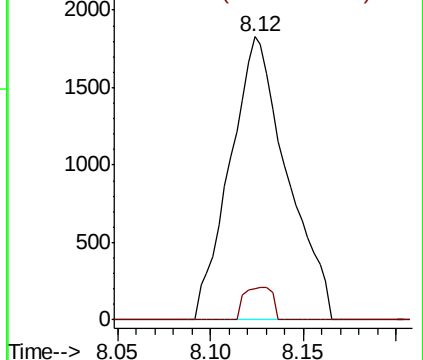


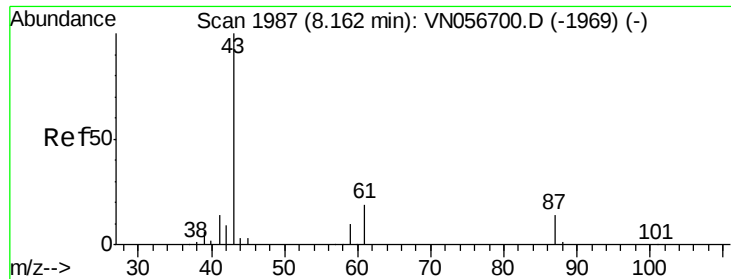
#42
1,2-Dichloroethane
Concen: 0.824 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. -0.00 min
Lab File: VN056707.D
Acq: 15 Jul 2019 13:20

Tgt Ion:	62	Resp:	3914
Ion	Ratio	Lower	Upper
62	100		
98	5.7	0.0	19.8



Abundance Ion 61.90 (61.60 to 62.60): VNO
Ion 97.90 (97.60 to 98.60): VNO





#43

Isopropyl Acetate

Concen: 0.690 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN056707.D

Acq: 15 Jul 2019 13:20

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

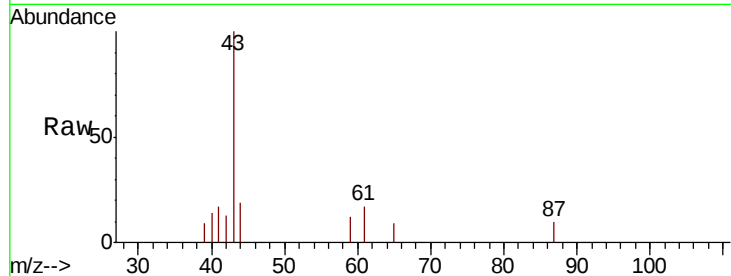
Tot Ion: 43 Resp: 5244

Ion Ratio Lower Upper

43 100

61 19.2 22.3 33.5#

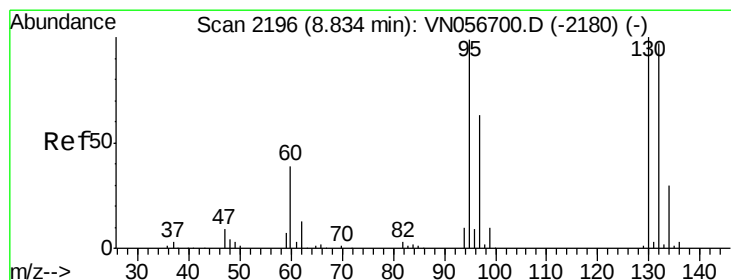
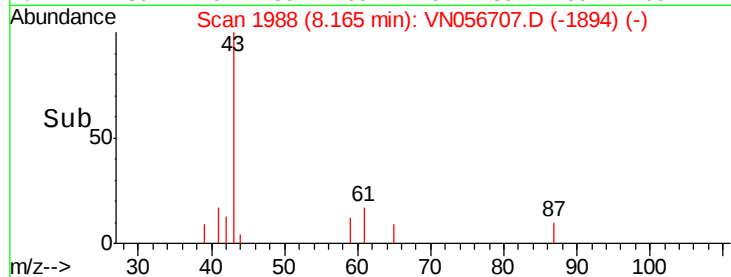
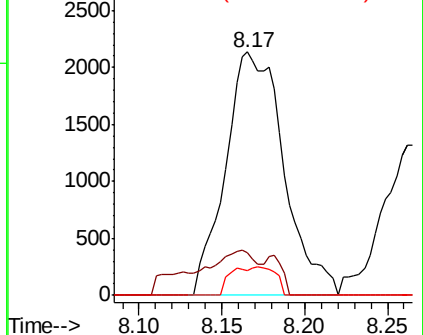
87 3.9 11.1 16.7#



Abundance Ion 43.00 (42.70 to 43.70): VN056707.D (-1988) (-)

Ion 61.00 (60.70 to 61.70): VN056707.D (-1988) (-)

Ion 87.00 (86.70 to 87.70): VN056707.D (-1988) (-)



#44

Trichloroethene

Concen: 0.769 ug/l

RT: 8.84 min Scan# 2197

Delta R.T. 0.00 min

Lab File: VN056707.D

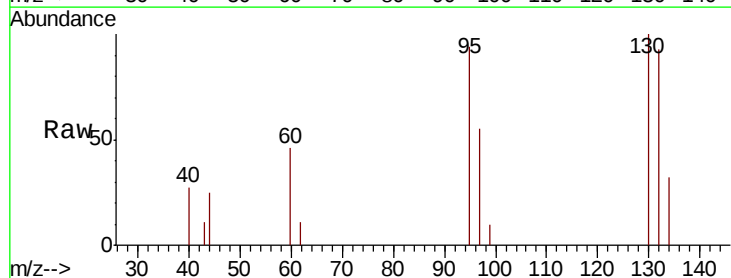
Acq: 15 Jul 2019 13:20

Tgt Ion: 130 Resp: 3136

Ion Ratio Lower Upper

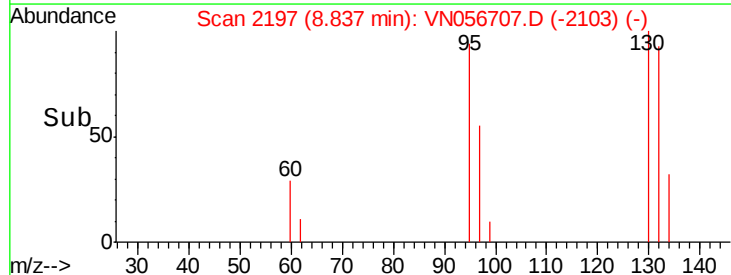
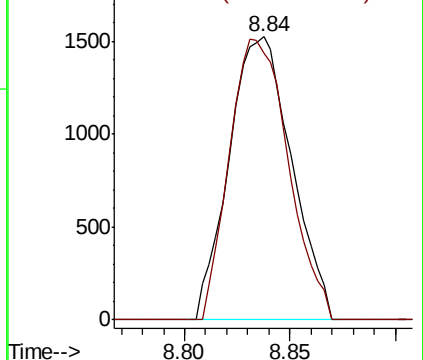
130 100

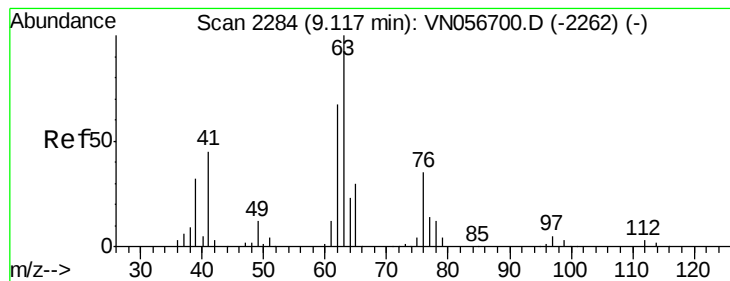
95 94.2 0.0 197.2



Abundance Ion 129.80 (129.50 to 130.50): VN056707.D (-2197) (-)

Ion 94.90 (94.60 to 95.60): VN056707.D (-2197) (-)





#45

1,2-Dichloropropane

Concen: 0.670 ug/l

RT: 9.12 min Scan# 2284

Delta R.T. -0.00 min

Lab File: VN056707.D

Acq: 15 Jul 2019 13:20

Instrument :

MSVOA_N

ClientSampleId :

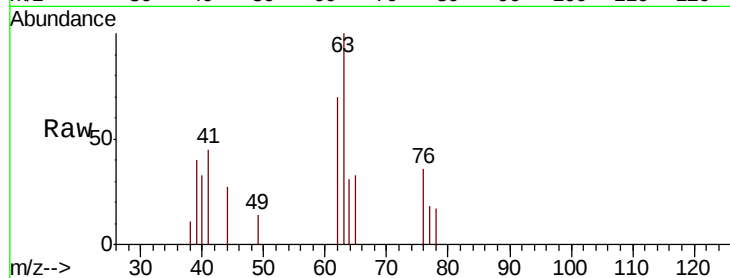
LOD-MDL-WATER-01-QT3-2019

Tot Ion: 63 Resp: 2676

Ion Ratio Lower Upper

63 100

65 32.9 24.0 36.0



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

9.12

1500

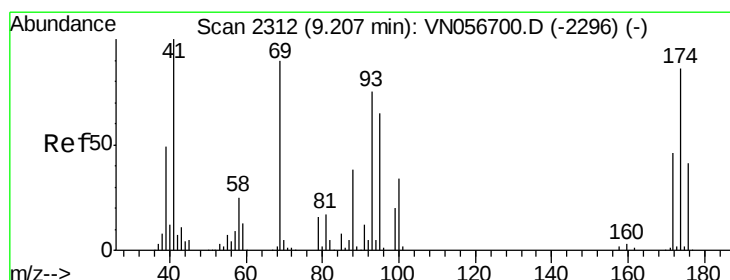
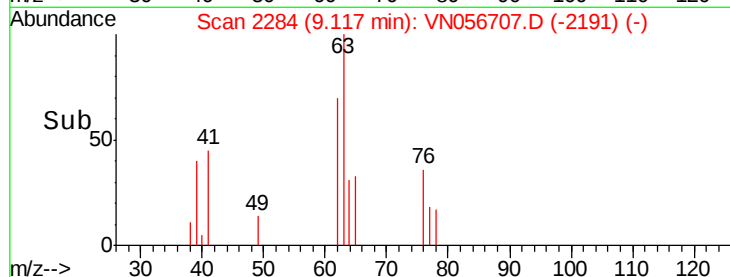
1000

500

0

9.10 9.15

Time-->



#46

Dibromomethane

Concen: 0.723 ug/l

RT: 9.22 min Scan# 2315

Delta R.T. 0.01 min

Lab File: VN056707.D

Acq: 15 Jul 2019 13:20

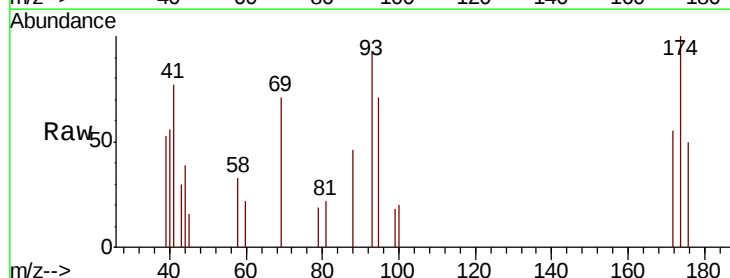
Tgt Ion: 93 Resp: 1788

Ion Ratio Lower Upper

93 100

95 79.0 67.4 101.0

174 104.9 90.3 135.5



Abundance Ion 92.80 (92.50 to 93.50): VN0

Ion 94.80 (94.50 to 95.50): VN0

Ion 173.70 (173.40 to 174.40): V

1200

1000

800

600

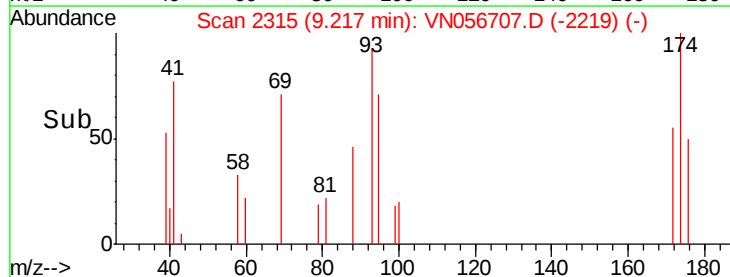
400

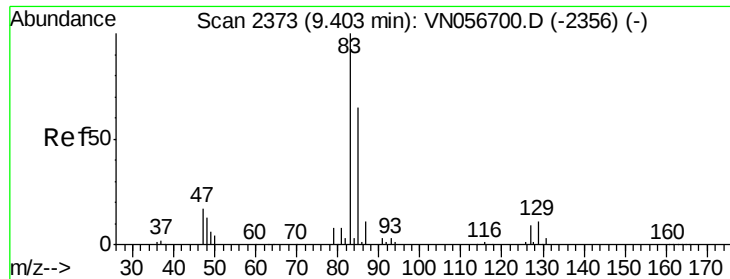
200

0

9.15 9.20 9.25

Time-->





#47

Bromodichloromethane

Concen: 0.656 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. -0.00 min

Lab File: VN056707.D

Acq: 15 Jul 2019 13:20

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

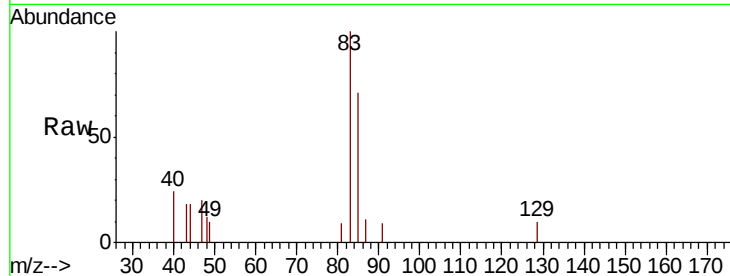
Tot Ion: 83 Resp: 3084

Ion Ratio Lower Upper

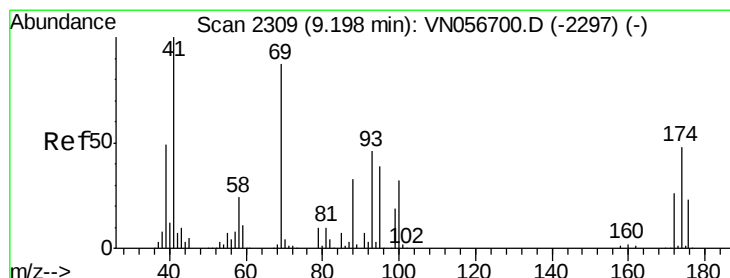
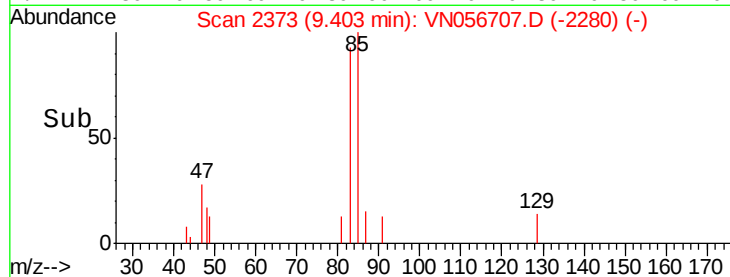
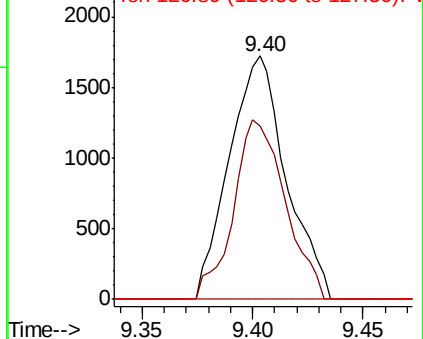
83 100

85 71.4 52.3 78.5

127 0.0 7.6 11.4#



Abundance Ion 82.90 (82.60 to 83.60): VN0
Ion 84.90 (84.60 to 85.60): VN0
Ion 126.80 (126.50 to 127.50): VN0



#48

Methyl methacrylate

Concen: 0.680 ug/l

RT: 9.20 min Scan# 2310

Delta R.T. 0.00 min

Lab File: VN056707.D

Acq: 15 Jul 2019 13:20

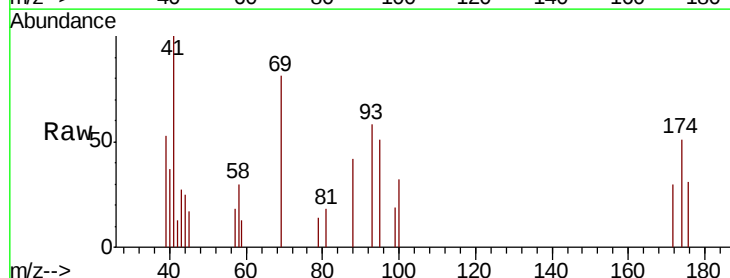
Tgt Ion: 41 Resp: 2497

Ion Ratio Lower Upper

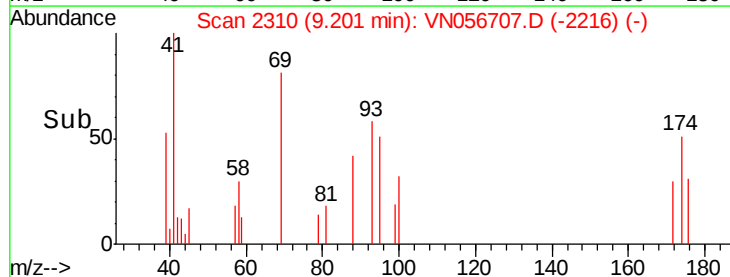
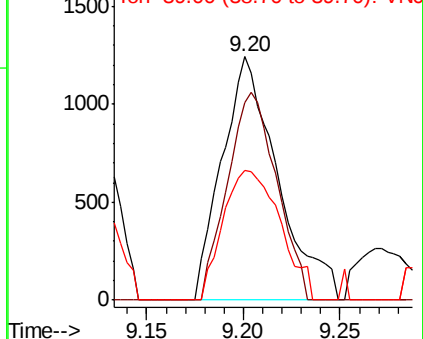
41 100

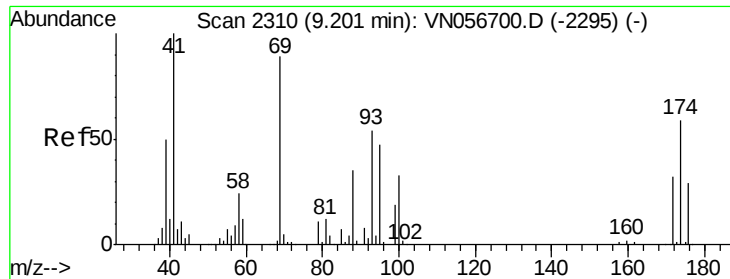
69 74.8 71.4 107.0

39 54.5 41.2 61.8



Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

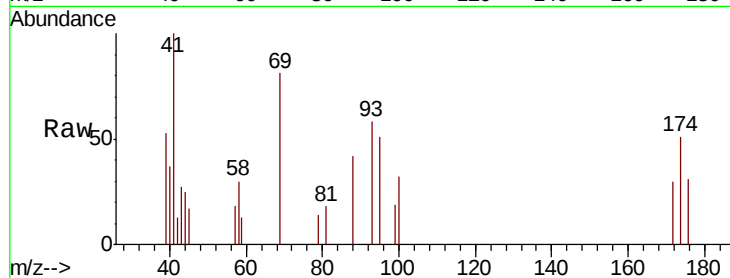




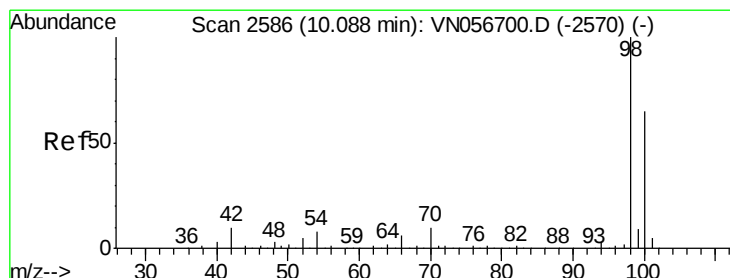
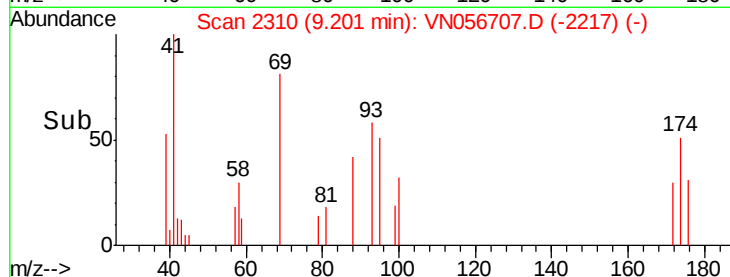
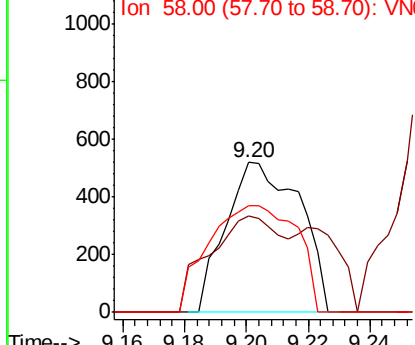
#49
 1,4-Dioxane
 Concen: 11.448 ug/l
 RT: 9.20 min Scan# 2310
 Delta R.T. -0.00 min
 Lab File: VN056707.D
 Acq: 15 Jul 2019 13:20

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2019

Tot Ion: 88 Resp: 863
 Ion Ratio Lower Upper
 88 100
 43 63.6 23.7 35.5#
 58 85.2 55.6 83.4#

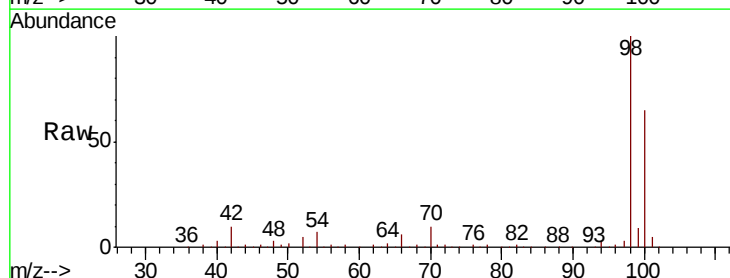


Abundance Ion 88.00 (87.70 to 88.70): VN0
 Ion 43.00 (42.70 to 43.70): VN0
 Ion 58.00 (57.70 to 58.70): VN0

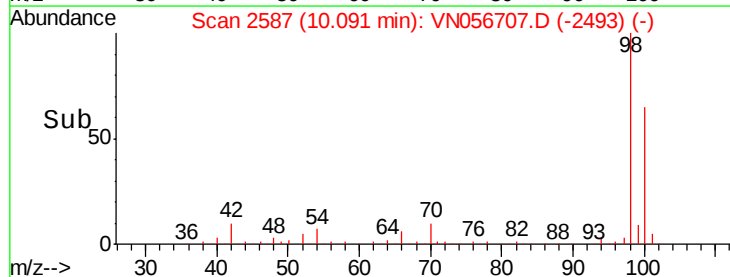
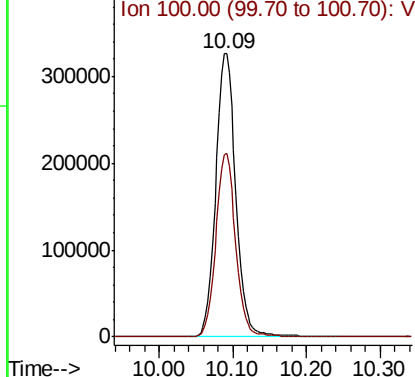


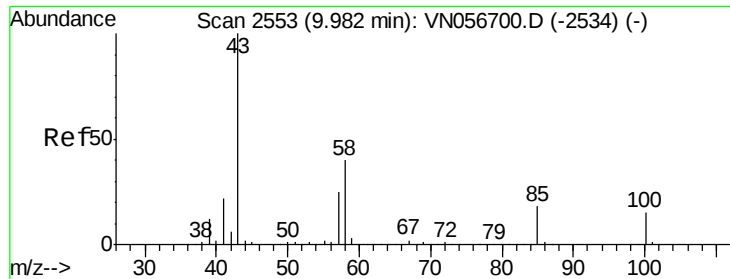
#50
 Toluene-d8
 Concen: 48.186 ug/l
 RT: 10.09 min Scan# 2587
 Delta R.T. 0.00 min
 Lab File: VN056707.D
 Acq: 15 Jul 2019 13:20

Tgt Ion: 98 Resp: 613617
 Ion Ratio Lower Upper
 98 100
 100 64.1 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VN0
 Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 3.535 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN056707.D

Acq: 15 Jul 2019 13:20

Instrument :

MSVOA_N

ClientSampleId :

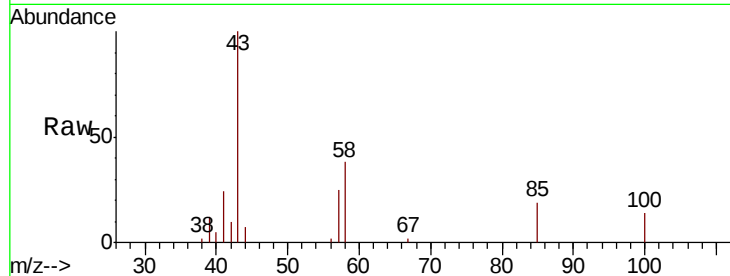
LOD-MDL-WATER-01-QT3-2019

Tot Ion: 43 Resp: 17394

Ion Ratio Lower Upper

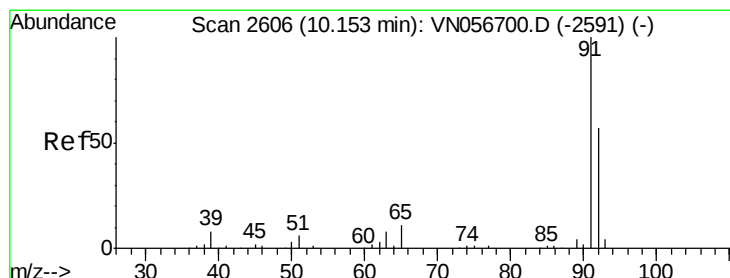
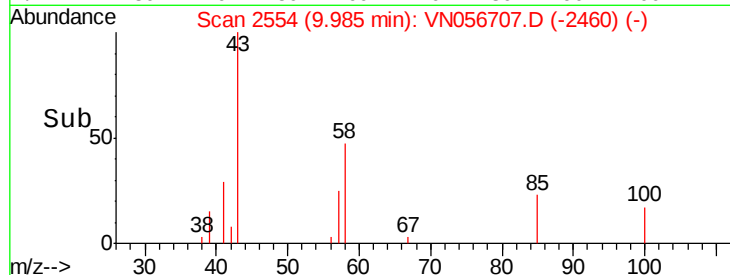
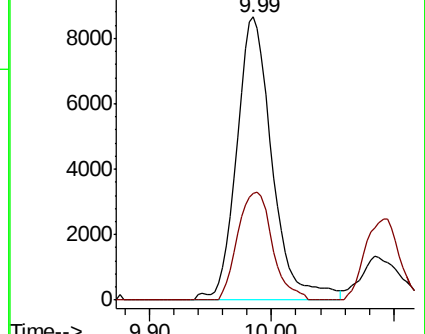
43 100

58 37.2 32.0 48.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 0.688 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN056707.D

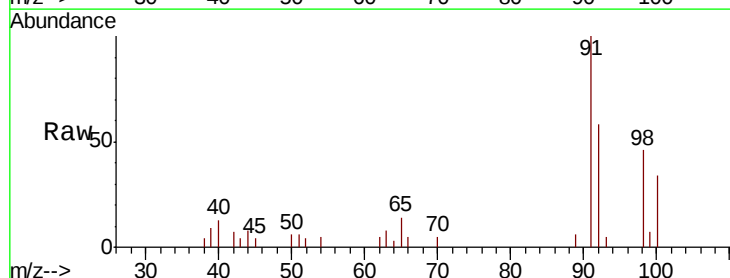
Acq: 15 Jul 2019 13:20

Tgt Ion: 92 Resp: 6134

Ion Ratio Lower Upper

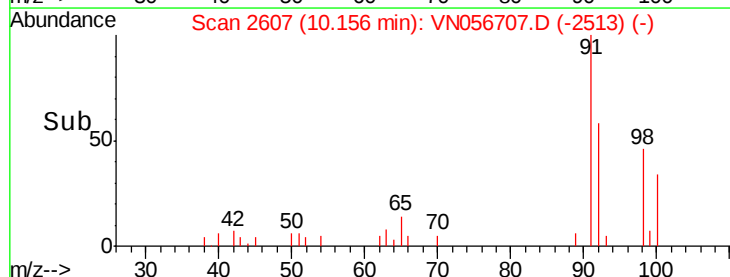
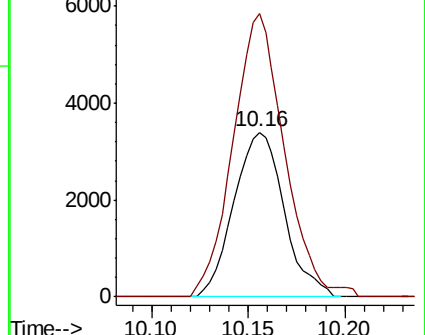
92 100

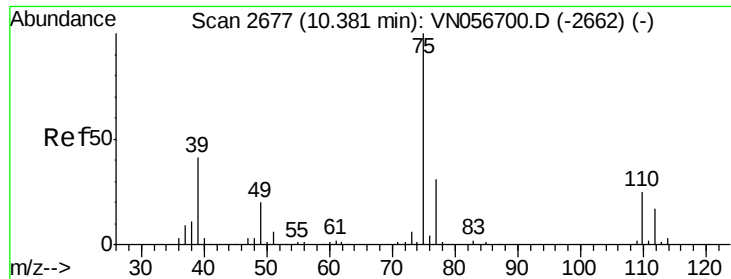
91 175.8 139.9 209.9



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0

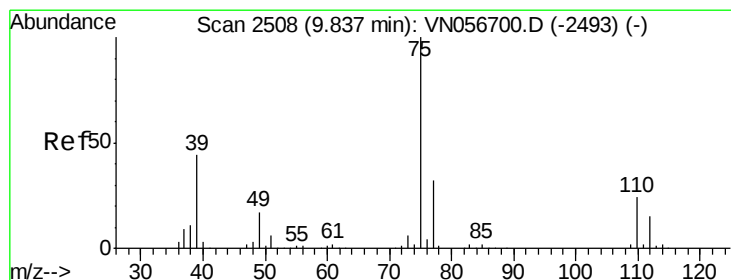
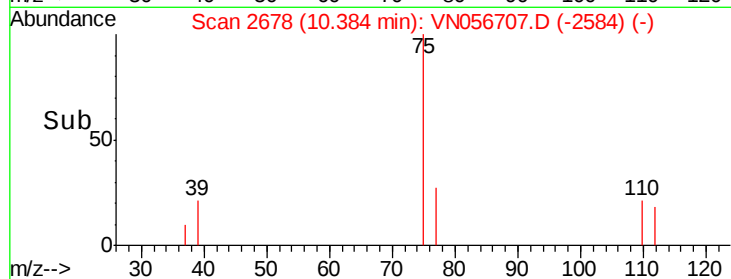
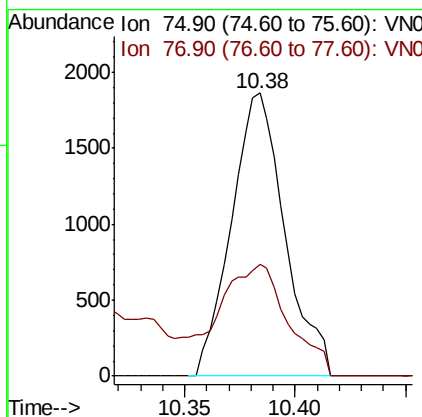
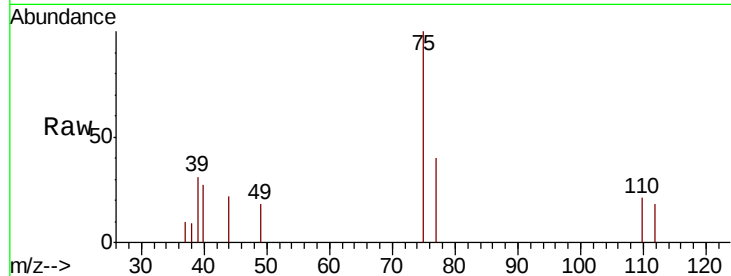




#53
 t-1,3-Dichloropropene
 Concen: 0.640 ug/l
 RT: 10.38 min Scan# 2678
 Delta R.T. 0.00 min
 Lab File: VN056707.D
 Acq: 15 Jul 2019 13:20

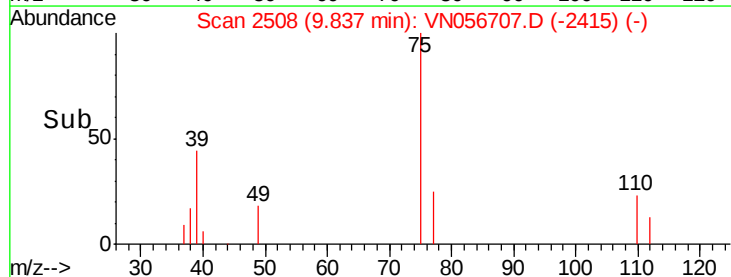
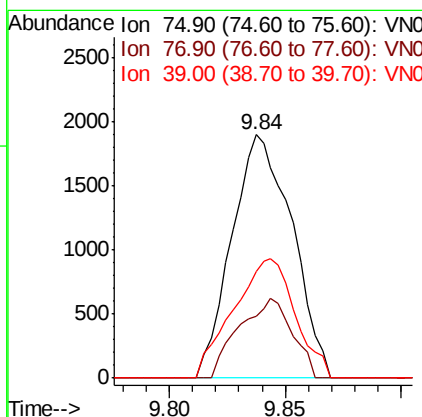
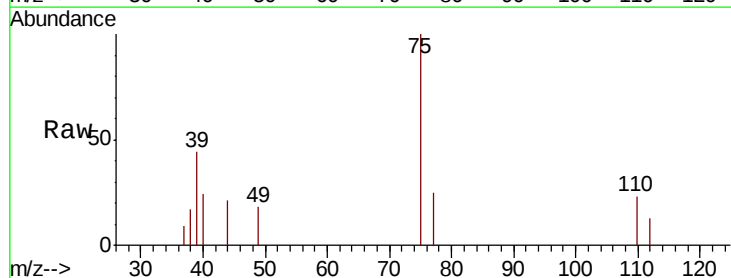
Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2019

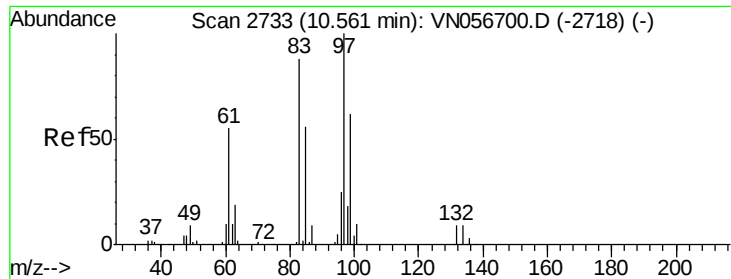
Tot Ion: 75 Resp: 3140
 Ion Ratio Lower Upper
 75 100
 77 39.7 25.0 37.6#



#54
 cis-1,3-Dichloropropene
 Concen: 0.603 ug/l
 RT: 9.84 min Scan# 2508
 Delta R.T. -0.00 min
 Lab File: VN056707.D
 Acq: 15 Jul 2019 13:20

Tgt Ion: 75 Resp: 3429
 Ion Ratio Lower Upper
 75 100
 77 25.3 26.0 39.0#
 39 43.7 35.1 52.7





#55

1,1,2-Trichloroethane

Concen: 0.701 ug/l

RT: 10.56 min Scan# 2733

Delta R.T. -0.00 min

Lab File: VN056707.D

Acq: 15 Jul 2019 13:20

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion: 97 Resp: 2623

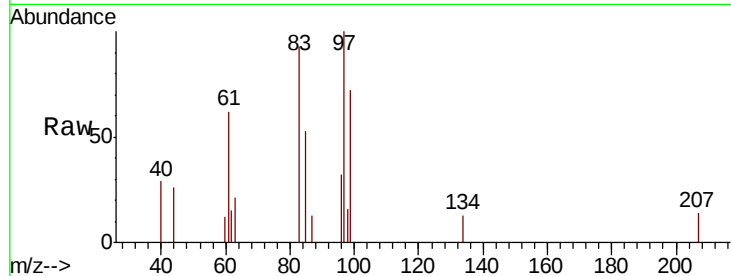
Ion Ratio Lower Upper

97 100

83 92.7 70.3 105.5

85 53.0 44.8 67.2

99 72.4 49.6 74.4

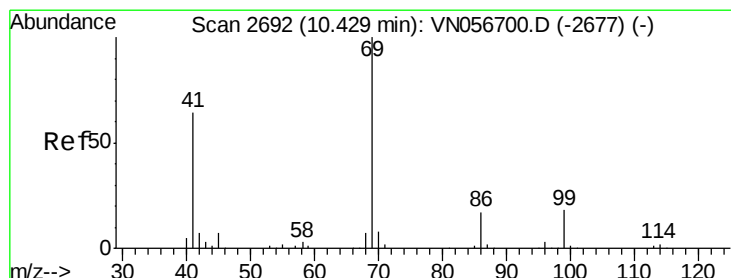
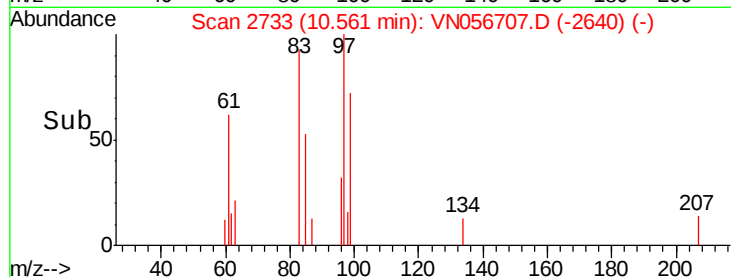
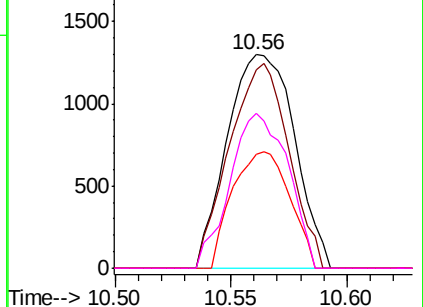


Abundance Ion 96.90 (96.60 to 97.60): VNO

Ion 82.90 (82.60 to 83.60): VNO

Ion 84.90 (84.60 to 85.60): VNO

Ion 98.90 (98.60 to 99.60): VNO



#56

Ethyl methacrylate

Concen: 0.605 ug/l

RT: 10.43 min Scan# 2692

Delta R.T. -0.00 min

Lab File: VN056707.D

Acq: 15 Jul 2019 13:20

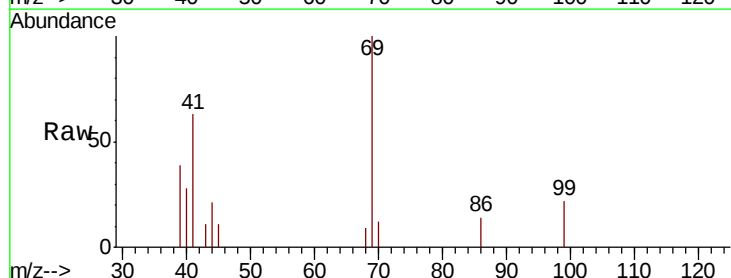
Tgt Ion: 69 Resp: 3258

Ion Ratio Lower Upper

69 100

41 64.4 51.0 76.4

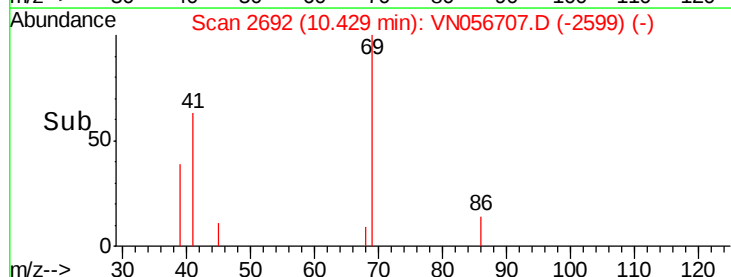
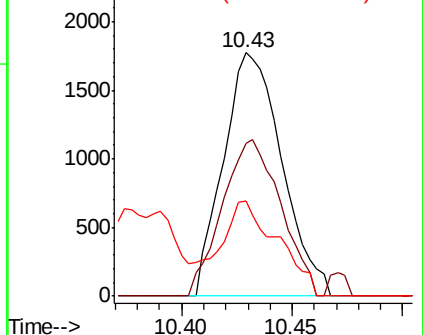
39 36.8 24.6 36.8

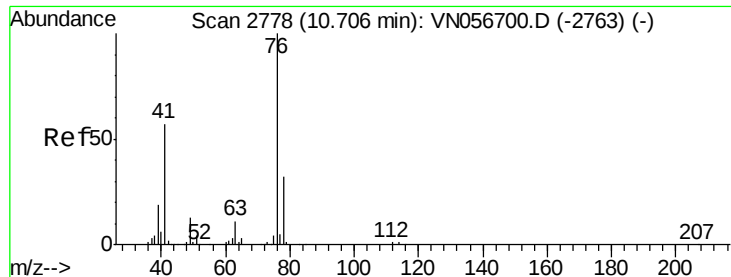


Abundance Ion 69.00 (68.70 to 69.70): VNO

Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO





#57

1,3-Dichloropropane

Concen: 0.697 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN056707.D

Acq: 15 Jul 2019 13:20

Instrument :

MSVOA_N

ClientSampleId :

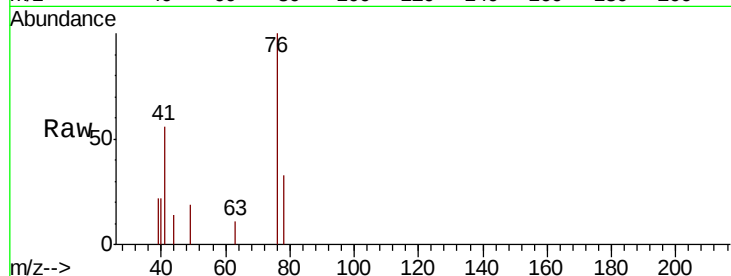
LOD-MDL-WATER-01-QT3-2019

Tot Ion: 76 Resp: 4259

Ion Ratio Lower Upper

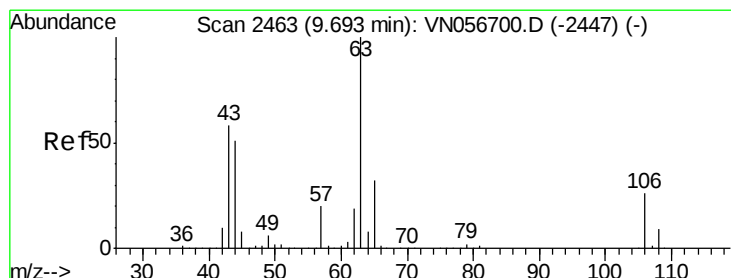
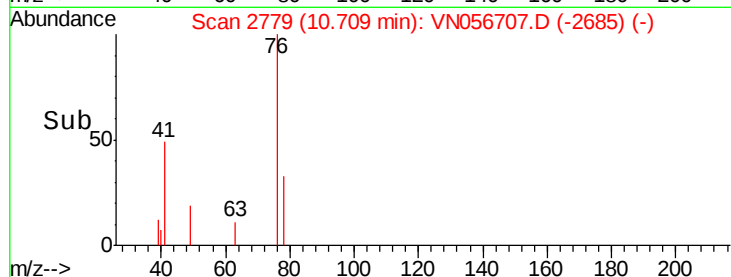
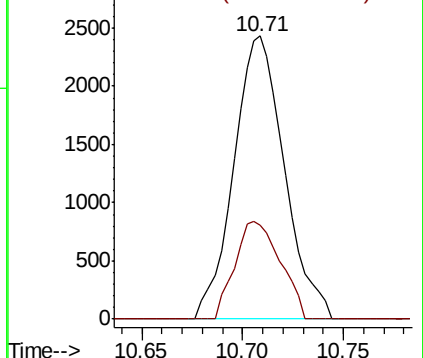
76 100

78 31.2 26.0 39.0



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#58

2-Chloroethyl Vinyl ether

Concen: 3.017 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN056707.D

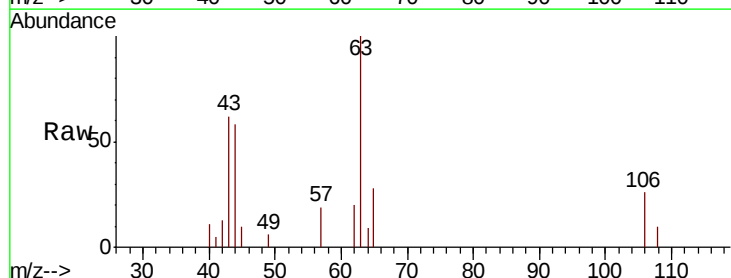
Acq: 15 Jul 2019 13:20

Tgt Ion: 63 Resp: 7812

Ion Ratio Lower Upper

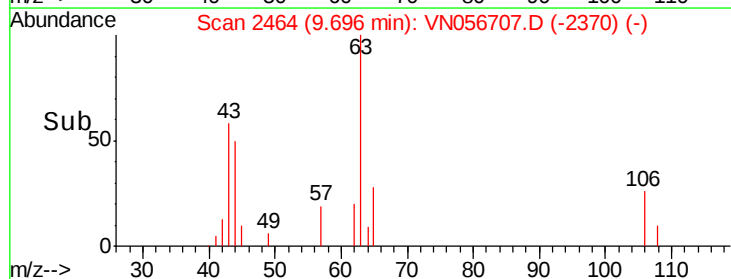
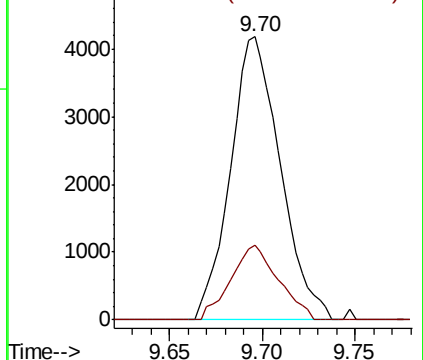
63 100

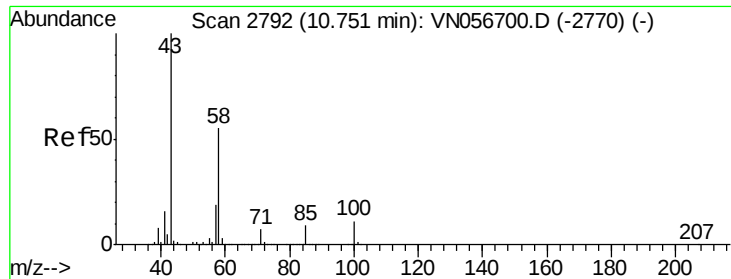
106 25.2 21.2 31.8



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V

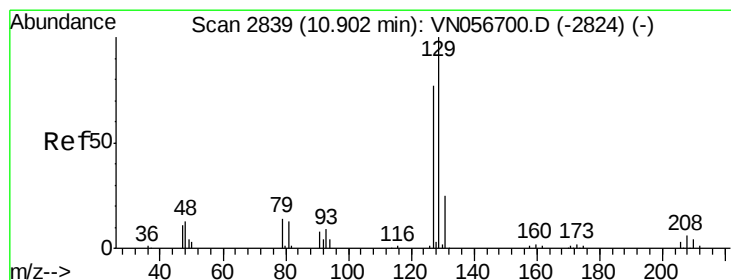
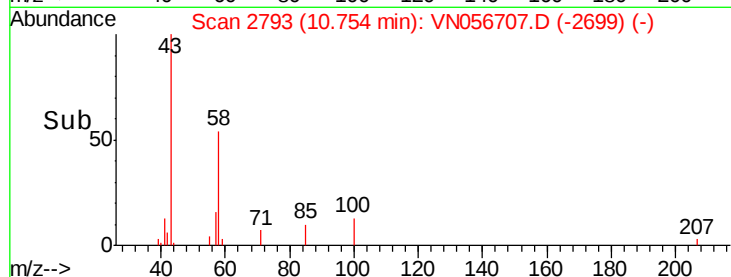
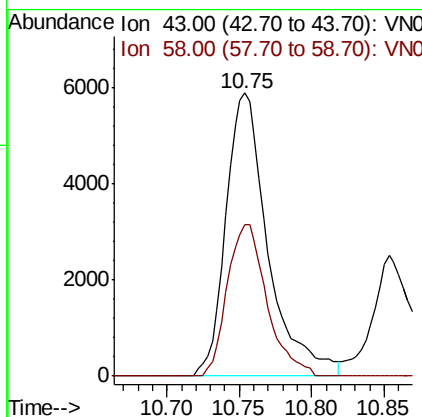
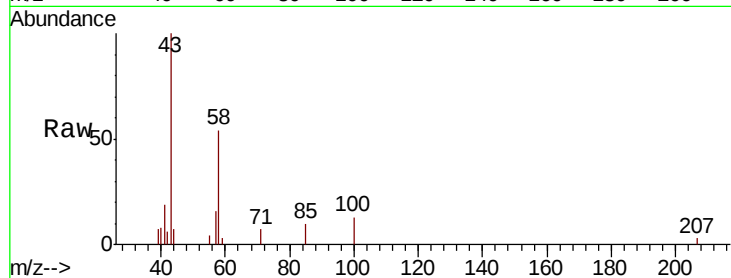




#59
2-Hexanone
Concen: 3.361 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN056707.D
Acq: 15 Jul 2019 13:20

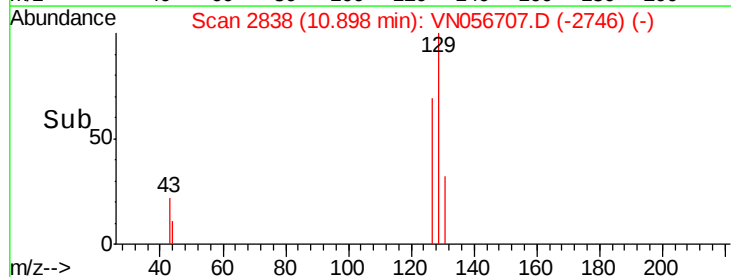
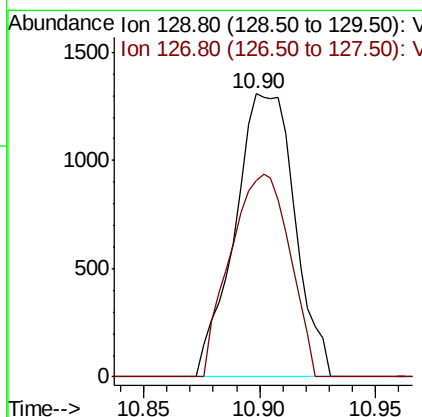
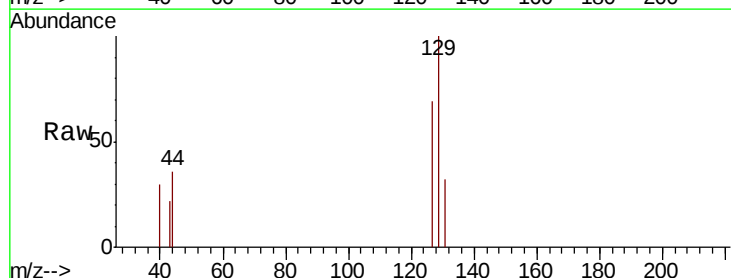
Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT3-2019

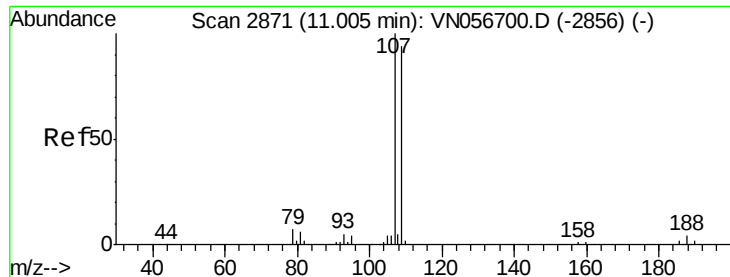
Tot Ion: 43.00 Resp: 11865
Ion Ratio Lower Upper
43 100
58 50.4 27.9 83.6



#60
Dibromochloromethane
Concen: 0.640 ug/l
RT: 10.90 min Scan# 2838
Delta R.T. -0.00 min
Lab File: VN056707.D
Acq: 15 Jul 2019 13:20

Tgt Ion: 129 Resp: 2356
Ion Ratio Lower Upper
129 100
127 70.9 38.2 114.6

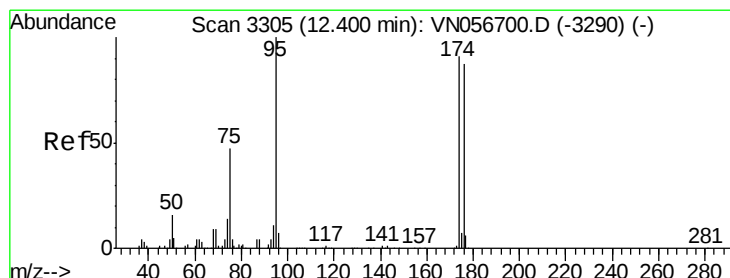
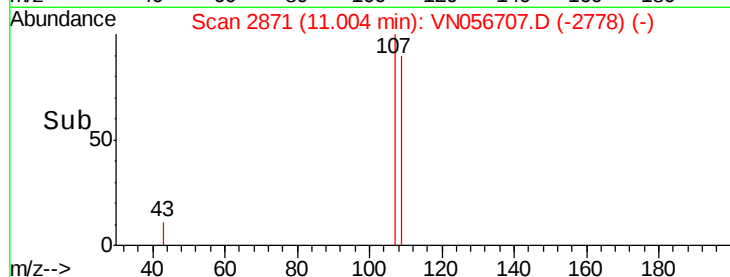
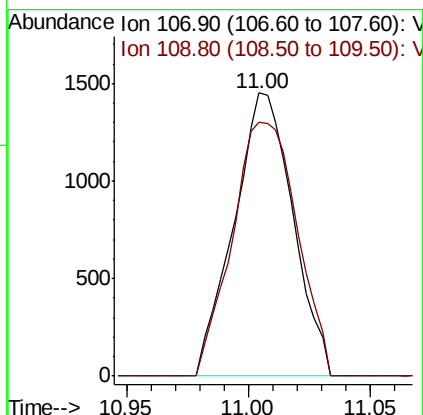
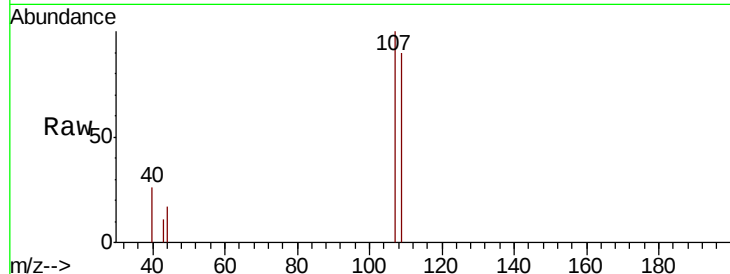




#61
 1,2-Dibromoethane
 Concen: 0.654 ug/l
 RT: 11.00 min Scan# 2871
 Delta R.T. -0.00 min
 Lab File: VN056707.D
 Acq: 15 Jul 2019 13:20

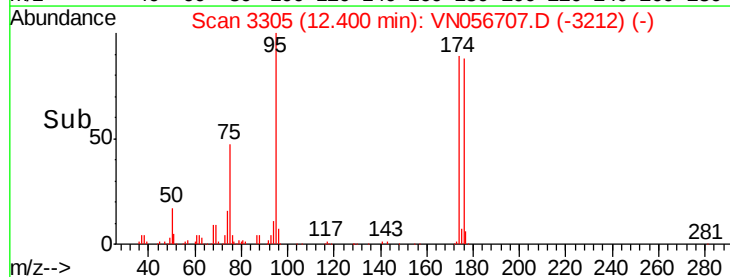
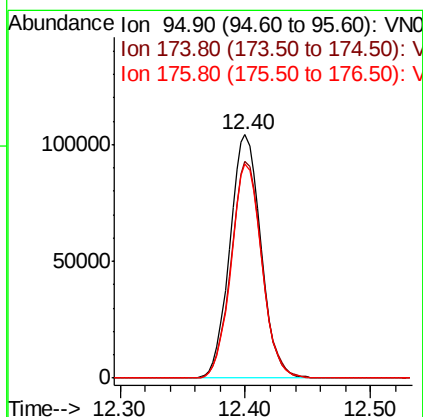
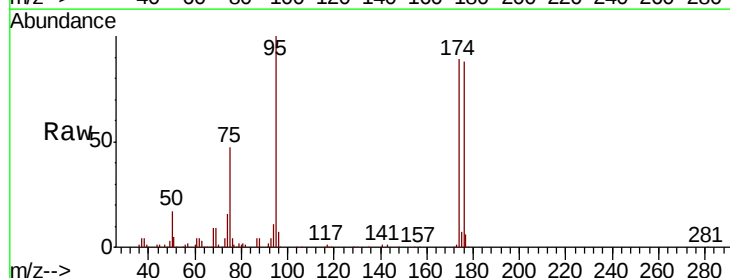
Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2019

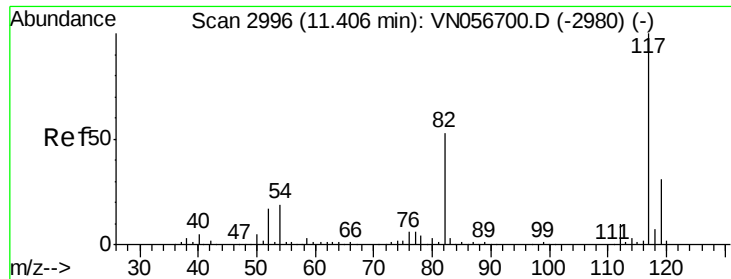
Tot Ion: 107 Resp: 2432
 Ion Ratio Lower Upper
 107 100
 109 98.6 76.2 114.4



#62
 4-Bromofluorobenzene
 Concen: 41.704 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.00 min
 Lab File: VN056707.D
 Acq: 15 Jul 2019 13:20

Tgt Ion: 95 Resp: 179097
 Ion Ratio Lower Upper
 95 100
 174 88.5 0.0 180.0
 176 86.5 0.0 173.2

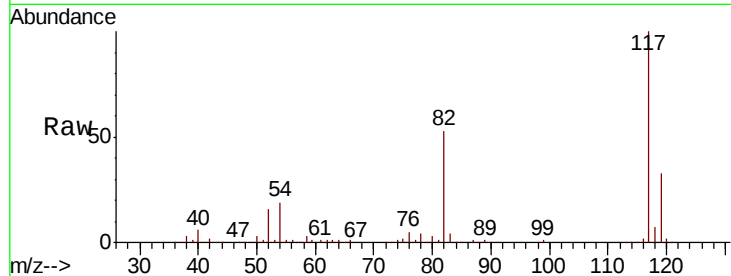




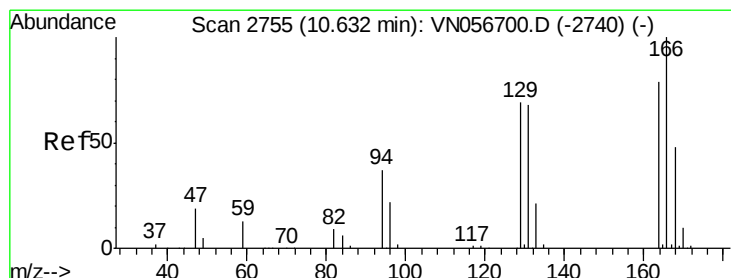
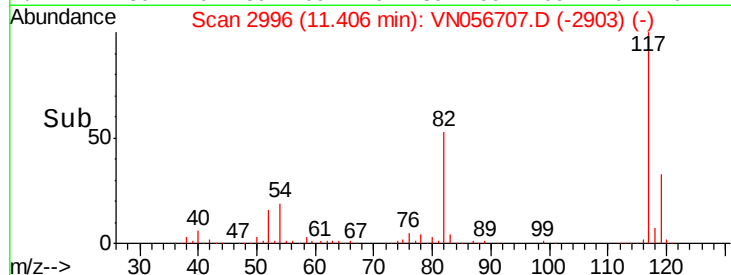
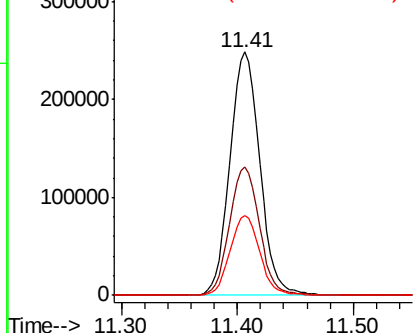
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN056707.D
Acq: 15 Jul 2019 13:20

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT3-2019

Tot Ion:117 Resp: 442567
Ion Ratio Lower Upper
117 100
82 52.5 42.2 63.2
119 32.8 25.2 37.8

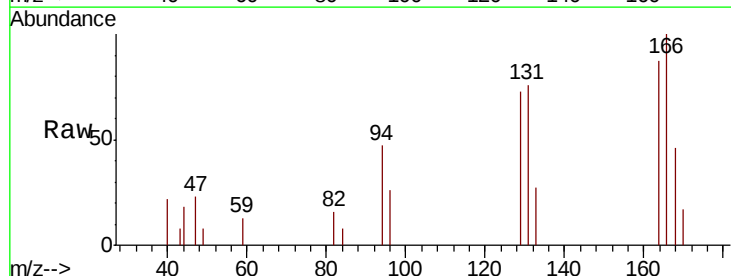


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

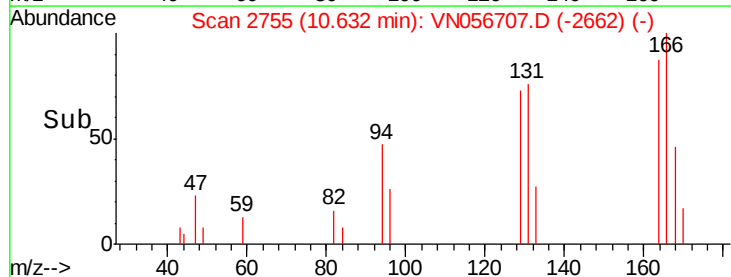
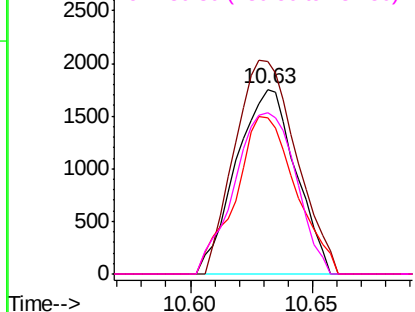


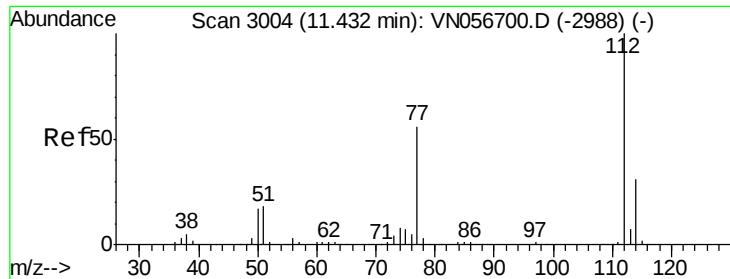
#64
Tetrachloroethene
Concen: 0.780 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.00 min
Lab File: VN056707.D
Acq: 15 Jul 2019 13:20

Tgt Ion:164 Resp: 2978
Ion Ratio Lower Upper
164 100
166 115.0 101.4 152.2
129 84.3 69.6 104.4
131 87.6 69.0 103.4



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: 0.750 ug/l

RT: 11.43 min Scan# 3003

Delta R.T. -0.00 min

Lab File: VN056707.D

Acq: 15 Jul 2019 13:20

Instrument :

MSVOA_N

ClientSampleId :

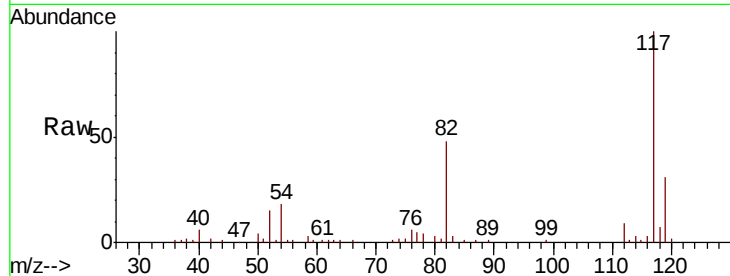
LOD-MDL-WATER-01-QT3-2019

Tot Ion:112 Resp: 6785

Ion Ratio Lower Upper

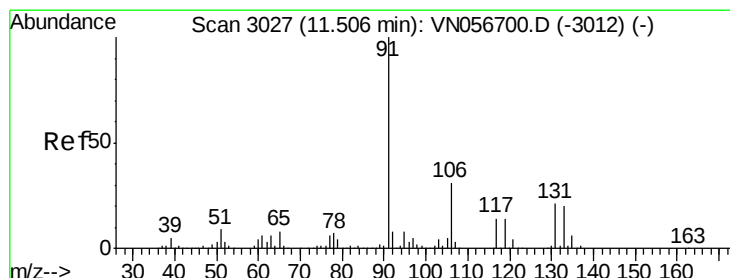
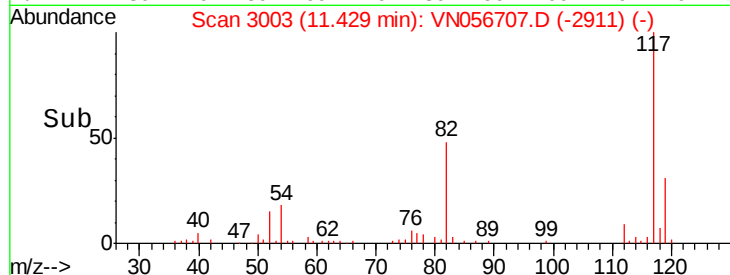
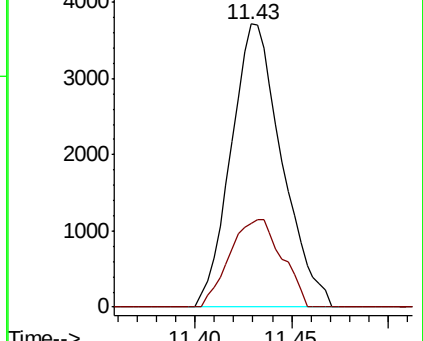
112 100

114 29.5 25.2 37.8



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 0.652 ug/l

RT: 11.51 min Scan# 3027

Delta R.T. -0.00 min

Lab File: VN056707.D

Acq: 15 Jul 2019 13:20

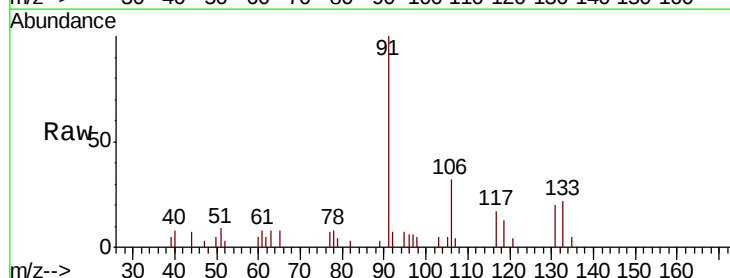
Tgt Ion:131 Resp: 2173

Ion Ratio Lower Upper

131 100

133 96.5 46.9 140.7

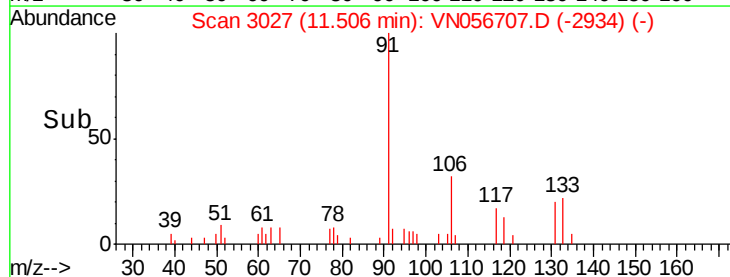
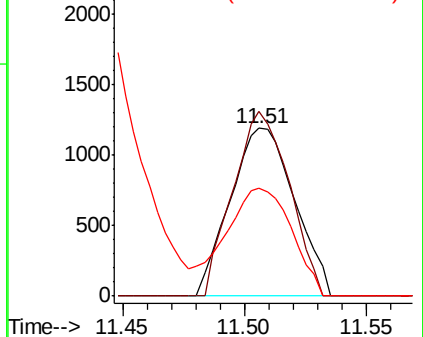
119 0.0 32.8 98.3#

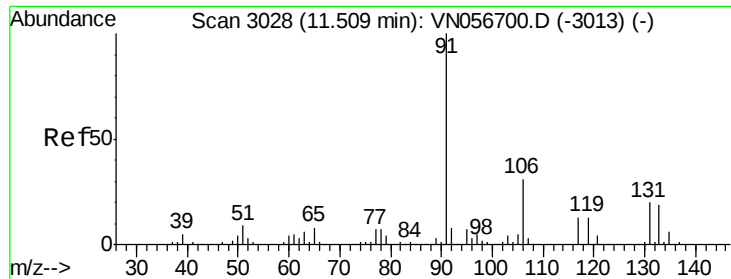


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V

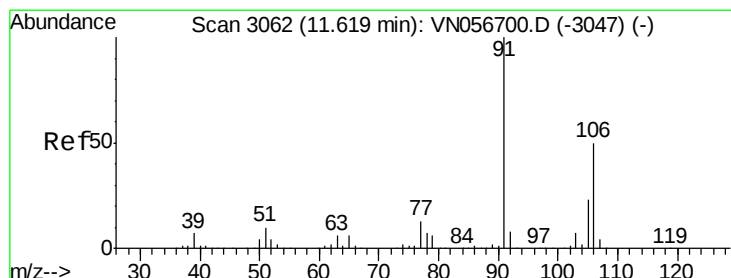
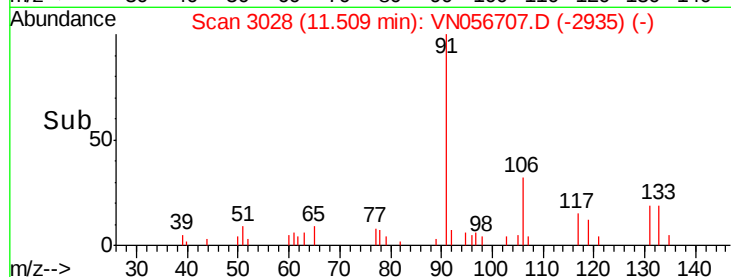
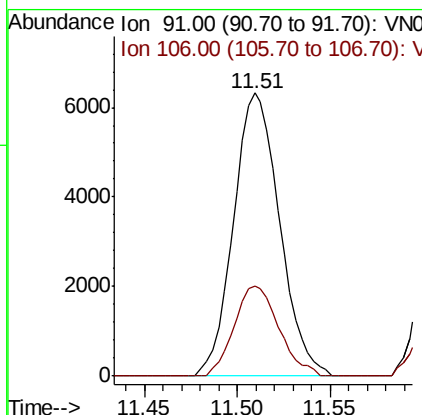
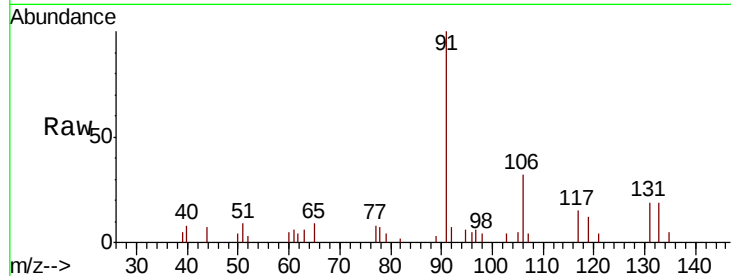




#67
Ethyl Benzene
Concen: 0.688 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN056707.D
Acq: 15 Jul 2019 13:20

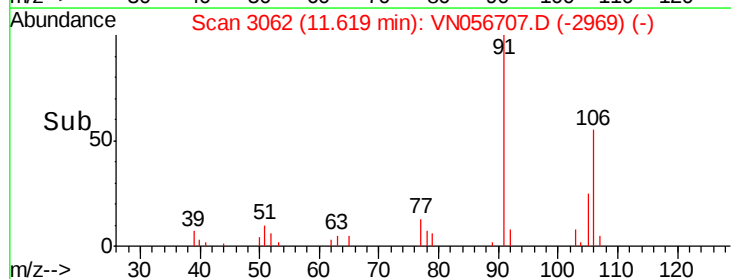
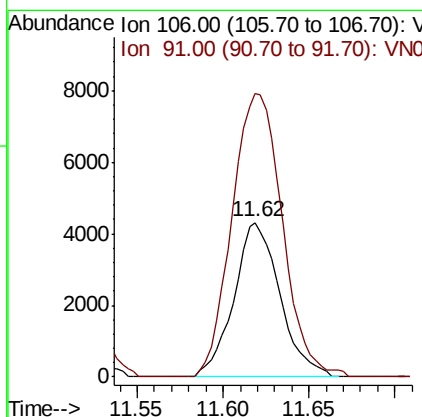
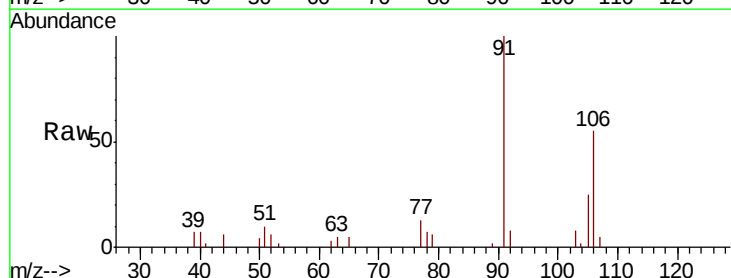
Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT3-2019

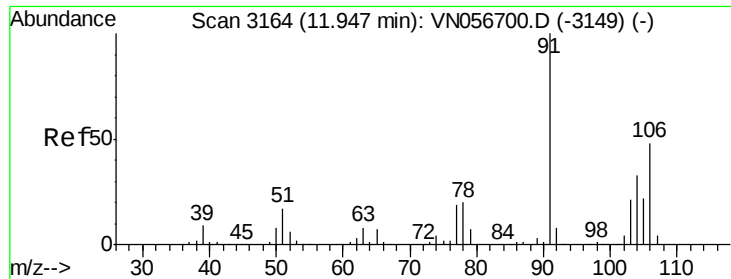
Tot Ion: 91 Resp: 10936
Ion Ratio Lower Upper
91 100
106 32.0 24.8 37.2



#68
m/p-Xylenes
Concen: 1.352 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN056707.D
Acq: 15 Jul 2019 13:20

Tgt Ion: 106 Resp: 8037
Ion Ratio Lower Upper
106 100
91 201.2 160.5 240.7

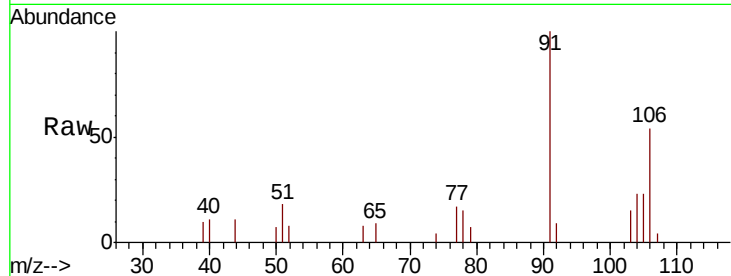




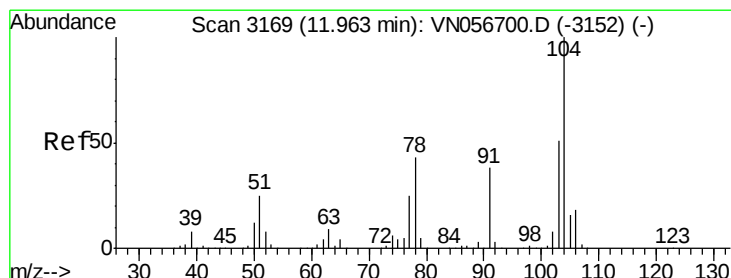
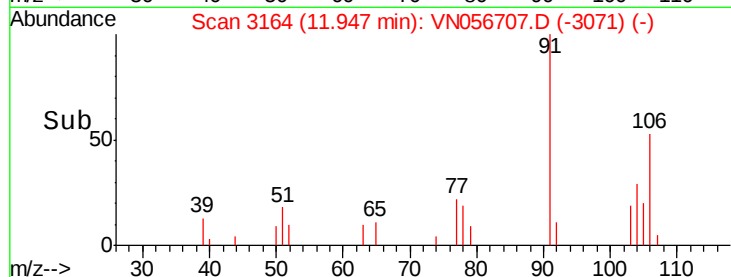
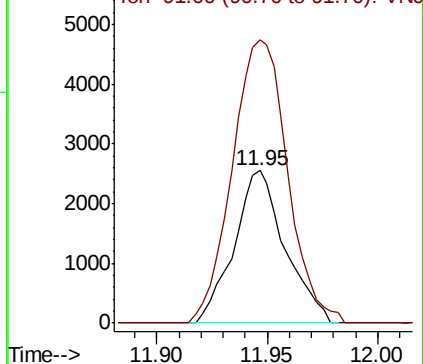
#69
o-Xylene
Concen: 0.701 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN056707.D
Acq: 15 Jul 2019 13:20

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT3-2019

Tot Ion:106 Resp: 4097
Ion Ratio Lower Upper
106 100
91 201.6 105.6 316.8

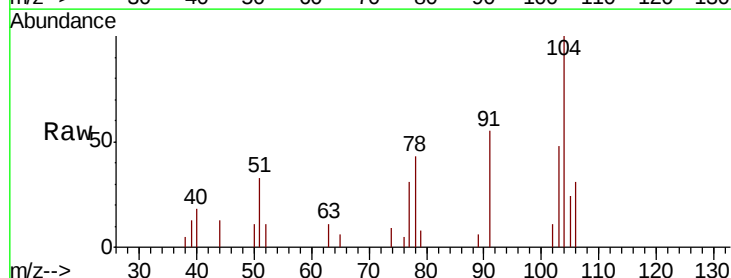


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VN

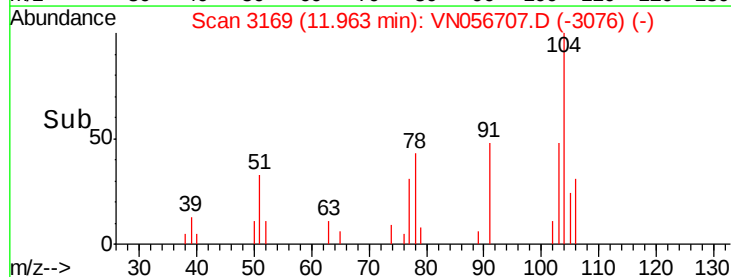
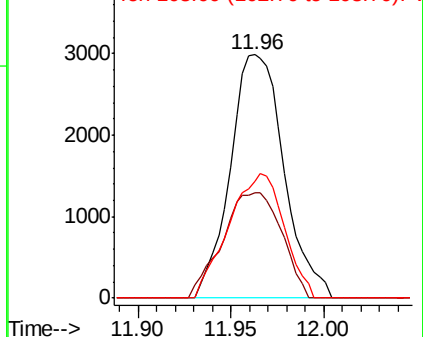


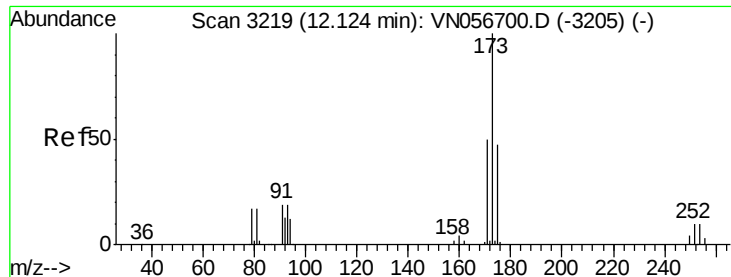
#70
Styrene
Concen: 0.636 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN056707.D
Acq: 15 Jul 2019 13:20

Tgt Ion:104 Resp: 6010
Ion Ratio Lower Upper
104 100
78 47.6 38.6 57.8
103 52.6 44.2 66.4



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VN
Ion 103.00 (102.70 to 103.70): V





#71

Bromoform

Concen: 0.543 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN056707.D

Acq: 15 Jul 2019 13:20

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

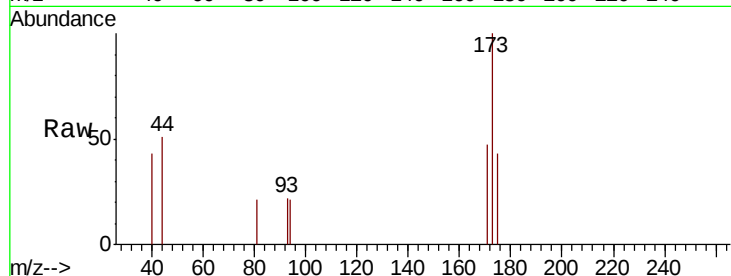
Tot Ion:173 Resp: 1377

Ion Ratio Lower Upper

173 100

175 46.2 23.8 71.4

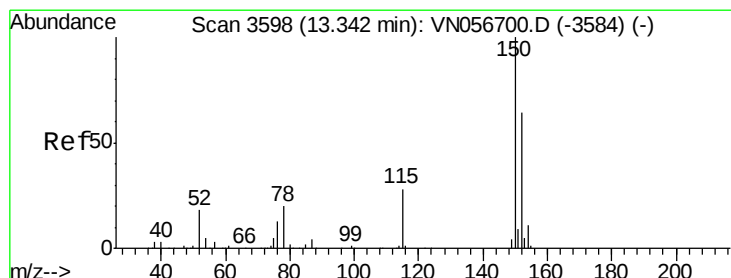
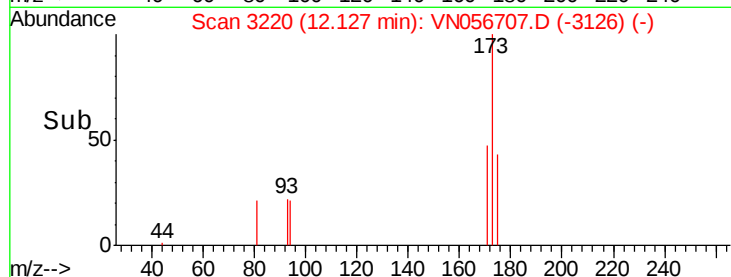
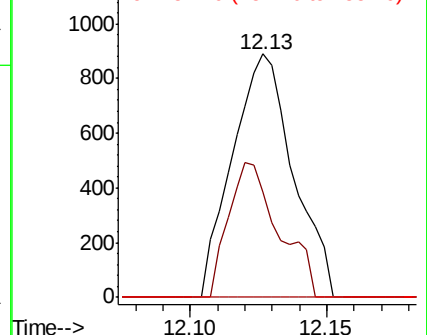
254 0.0 0.0 0.0



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# 3598

Delta R.T. -0.00 min

Lab File: VN056707.D

Acq: 15 Jul 2019 13:20

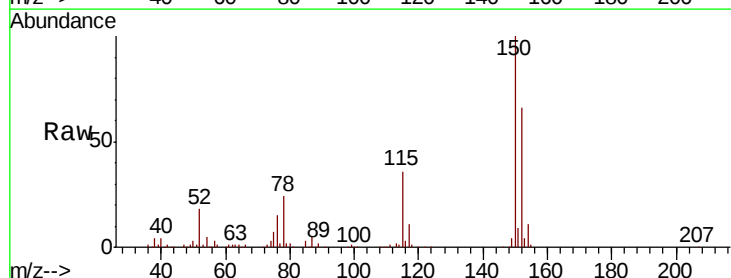
Tgt Ion:152 Resp: 148349

Ion Ratio Lower Upper

152 100

115 55.2 28.2 84.7

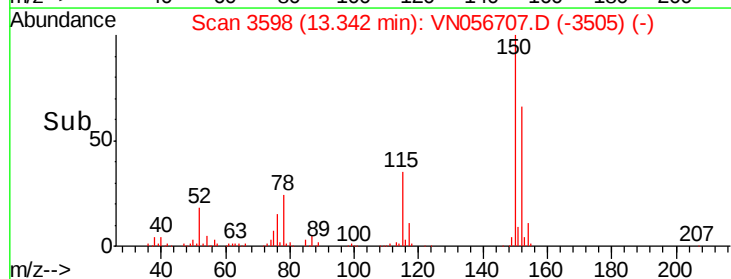
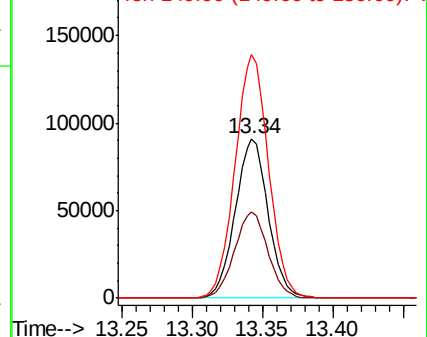
150 155.8 0.0 345.8

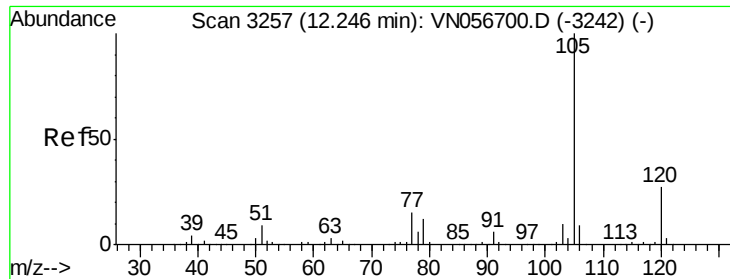


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 0.832 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN056707.D

Acq: 15 Jul 2019 13:20

Instrument :

MSVOA_N

ClientSampleId :

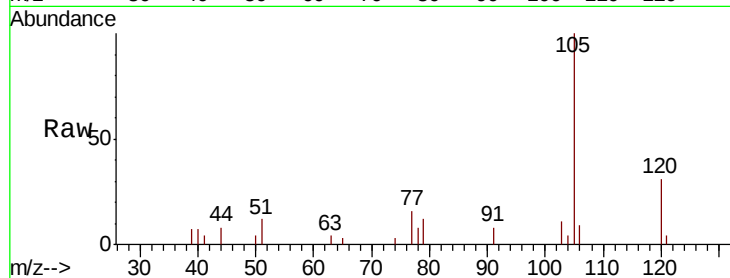
LOD-MDL-WATER-01-QT3-2019

Tot Ion: 105 Resp: 9951

Ion Ratio Lower Upper

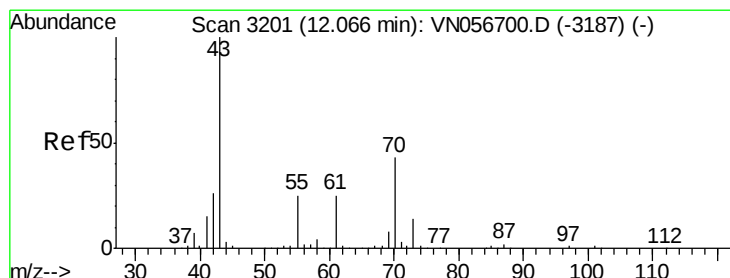
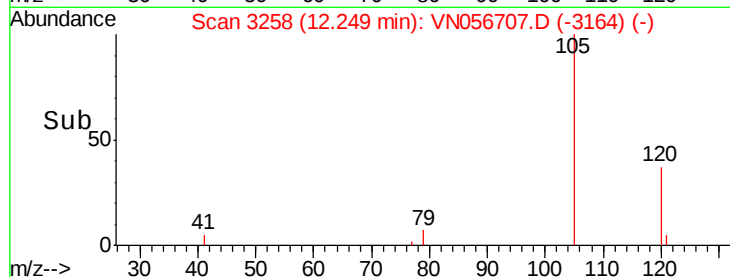
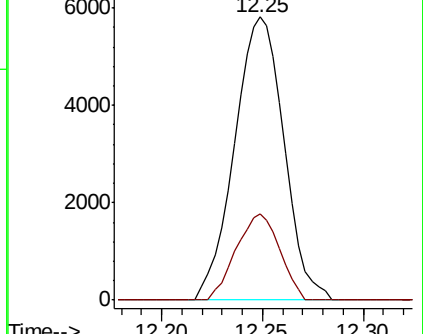
105 100

120 26.9 13.4 40.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 0.714 ug/l

RT: 12.07 min Scan# 3203

Delta R.T. 0.01 min

Lab File: VN056707.D

Acq: 15 Jul 2019 13:20

Tgt Ion: 43 Resp: 3180

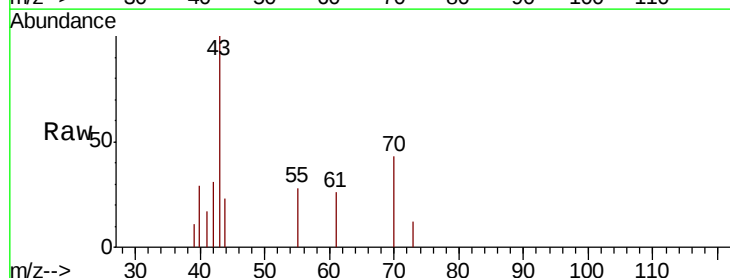
Ion Ratio Lower Upper

43 100

70 36.3 34.5 51.7

55 22.3 20.2 30.2

61 20.7 19.9 29.9

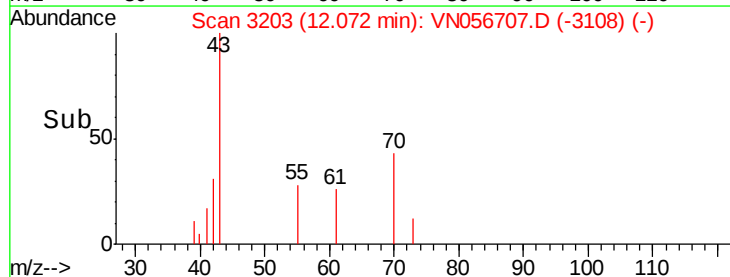
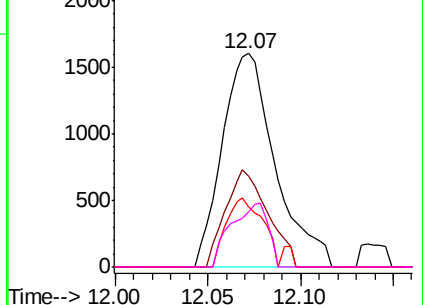


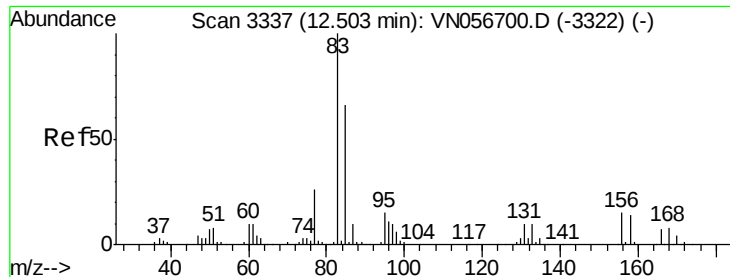
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN056707.D

Acq: 15 Jul 2019 13:20

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

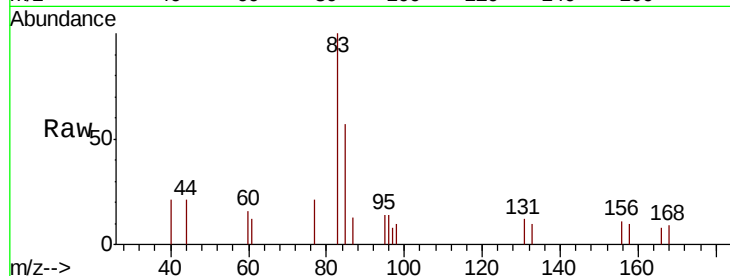
Tot Ion: 83 Resp: 3544

Ion Ratio Lower Upper

83 100

131 7.5 5.3 15.8

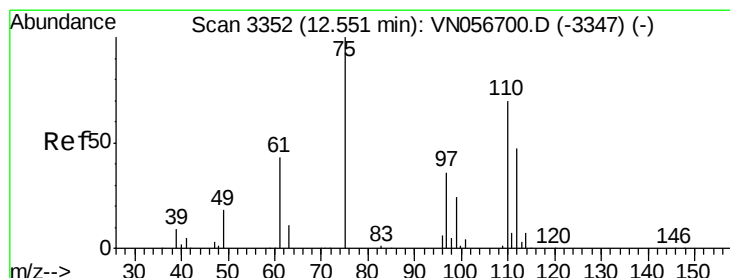
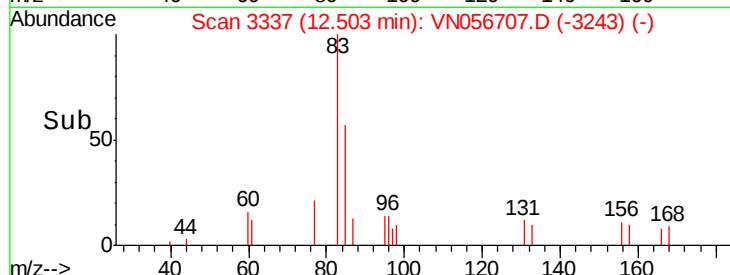
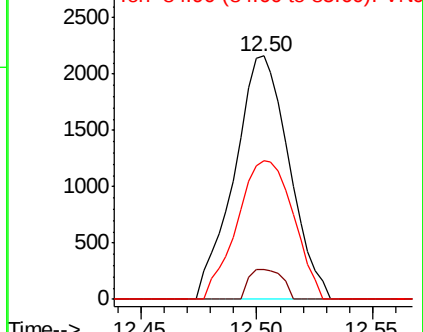
85 58.6 32.6 97.8



Abundance Ion 82.90 (82.60 to 83.60): VN056707.D (-3322) (-)

Ion 130.80 (130.50 to 131.50): VN056707.D (-3322) (-)

Ion 84.90 (84.60 to 85.60): VN056707.D (-3322) (-)



#76

1,2,3-Trichloropropane

Concen: 1.262 ug/l

RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

Lab File: VN056707.D

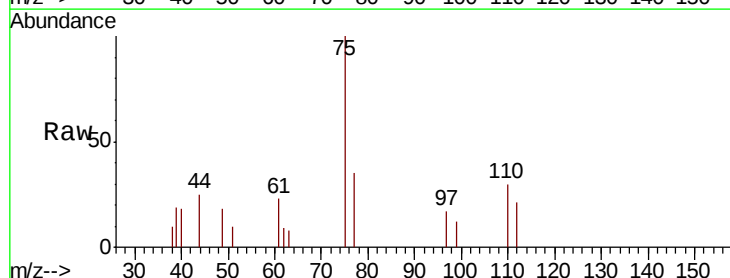
Acq: 15 Jul 2019 13:20

Tgt Ion: 75 Resp: 4096

Ion Ratio Lower Upper

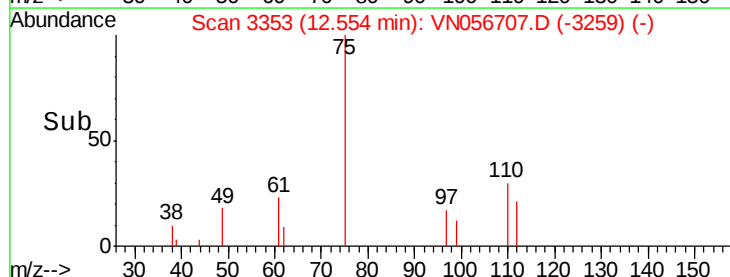
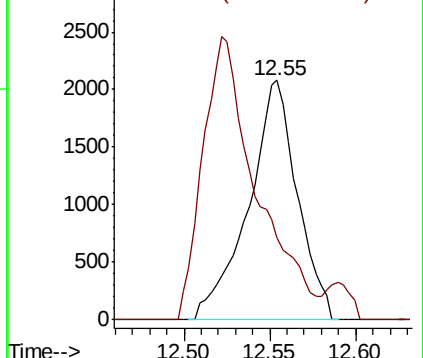
75 100

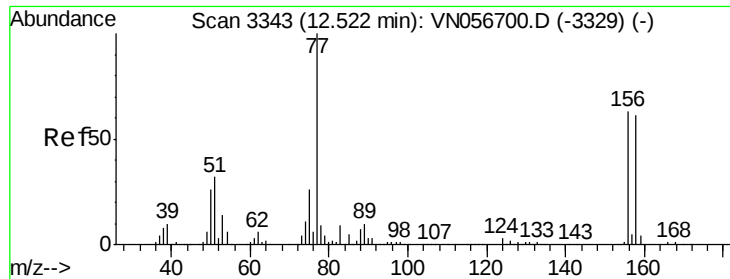
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VN056707.D (-3352) (-)

Ion 77.00 (76.70 to 77.70): VN056707.D (-3352) (-)

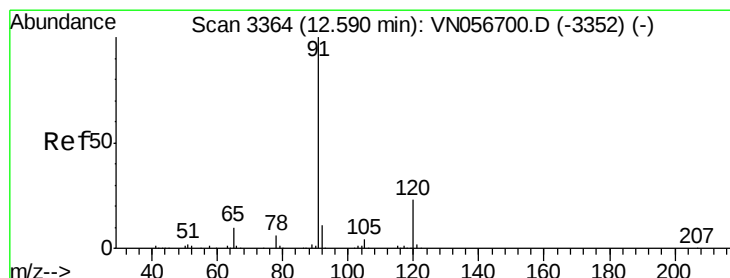
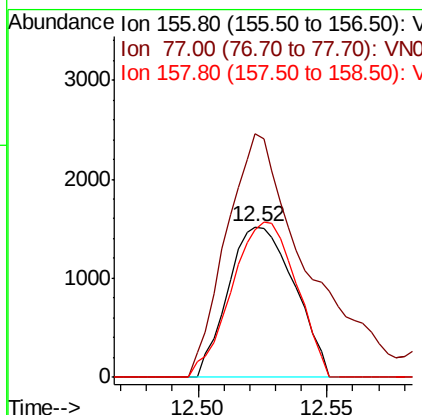
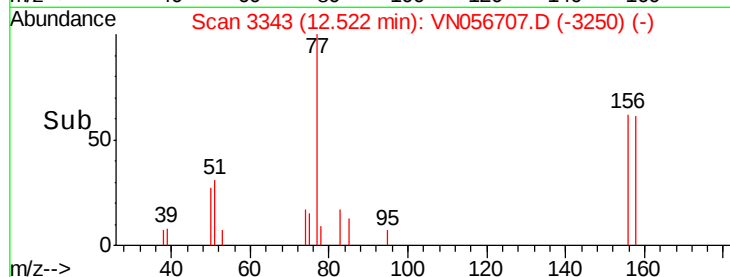
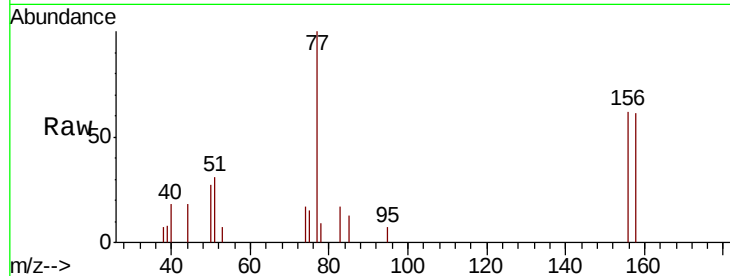




#77
Bromobenzene
Concen: 0.868 ug/l
RT: 12.52 min Scan# 3343
Delta R.T. -0.00 min
Lab File: VN056707.D
Acq: 15 Jul 2019 13:20

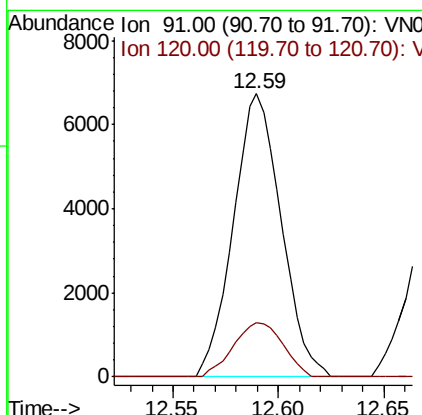
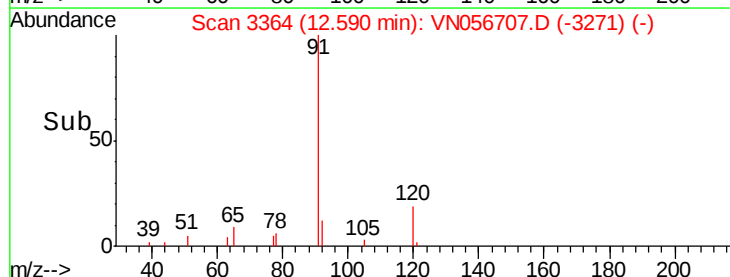
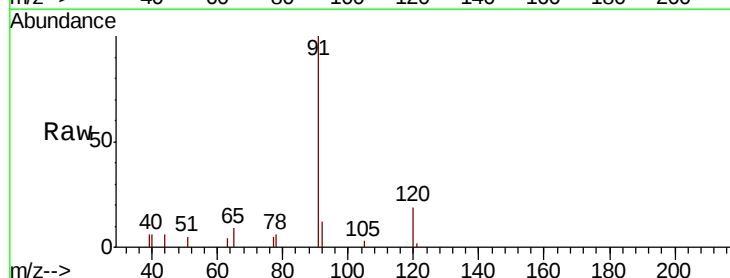
Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT3-2019

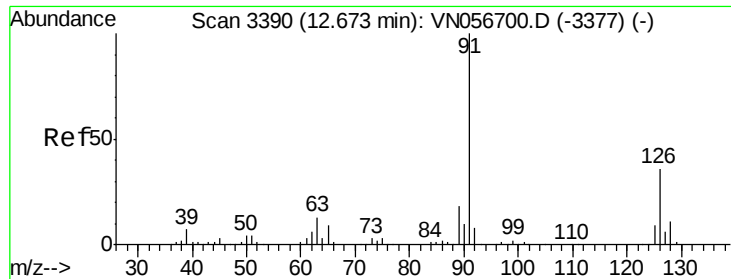
Tot Ion:156 Resp: 2715
Ion Ratio Lower Upper
156 100
77 196.7 97.2 291.6
158 100.6 48.9 146.8



#78
n-propylbenzene
Concen: 0.797 ug/l
RT: 12.59 min Scan# 3364
Delta R.T. -0.00 min
Lab File: VN056707.D
Acq: 15 Jul 2019 13:20

Tgt Ion: 91 Resp: 10584
Ion Ratio Lower Upper
91 100
120 20.0 11.8 35.3





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN056707.D

Acq: 15 Jul 2019 13:20

Instrument :

MSVOA_N

ClientSampleId :

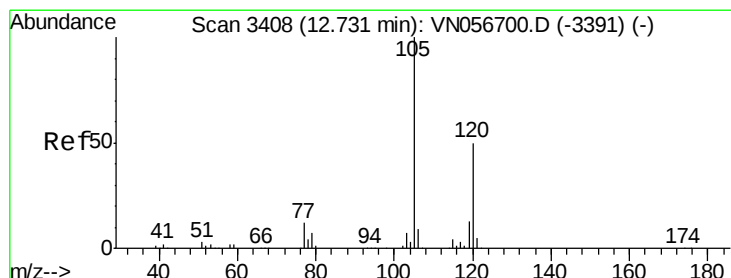
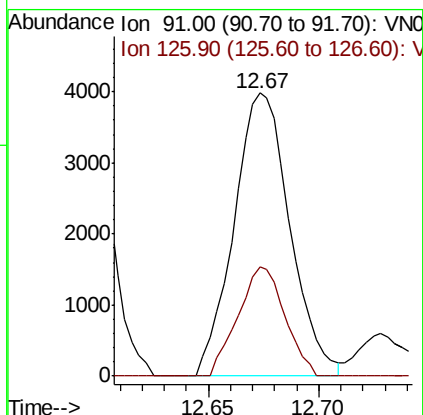
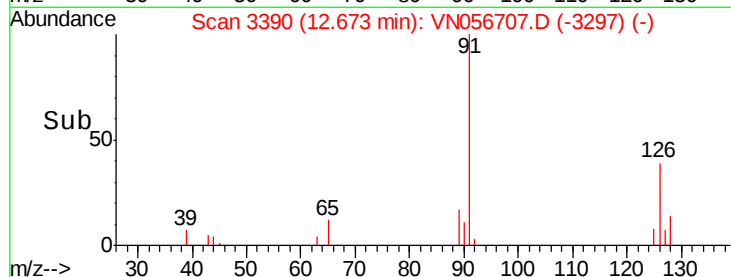
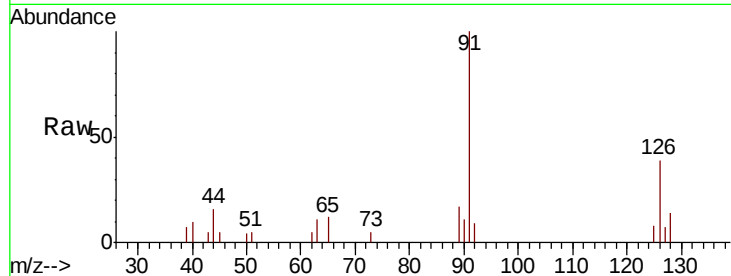
LOD-MDL-WATER-01-QT3-2019

Tot Ion: 91 Resp: 6998

Ion Ratio Lower Upper

91 100

126 32.3 17.9 53.7



#80

1,3,5-Trimethylbenzene

Concen: 0.825 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN056707.D

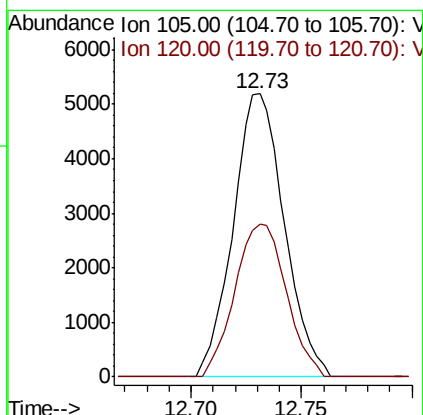
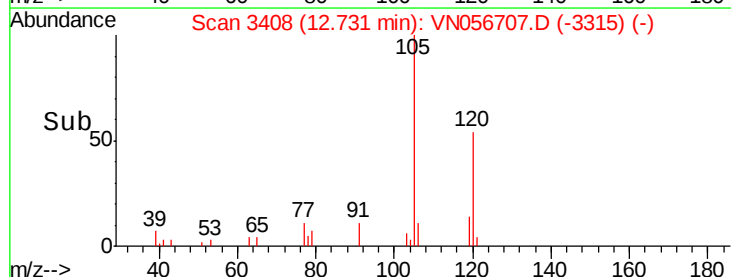
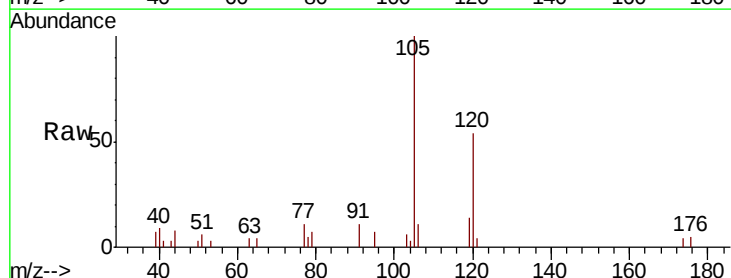
Acq: 15 Jul 2019 13:20

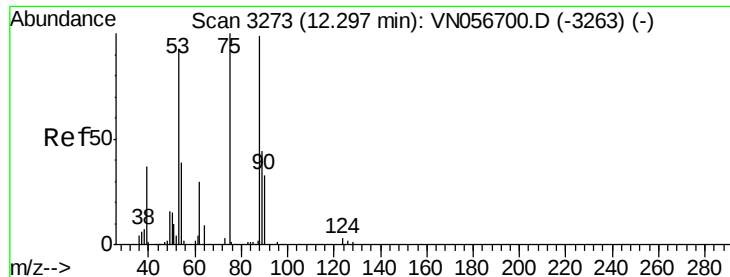
Tgt Ion: 105 Resp: 8366

Ion Ratio Lower Upper

105 100

120 54.1 24.8 74.3





#81

trans-1,4-Dichloro-2-butene

Concen: 78.606 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056707.D

Acq: 15 Jul 2019 13:20

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

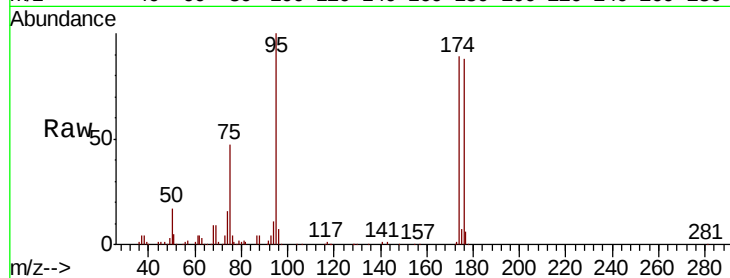
Tot Ion: 75 Resp: 82584

Ion Ratio Lower Upper

75 100

53 0.0 73.7 110.5#

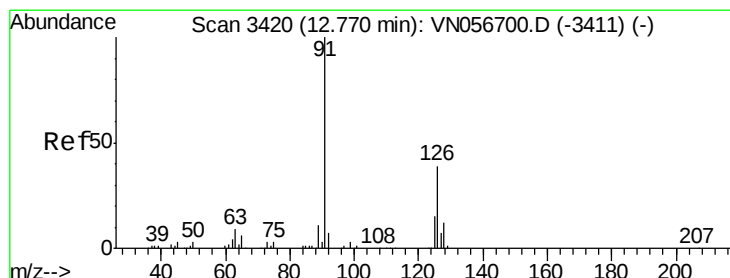
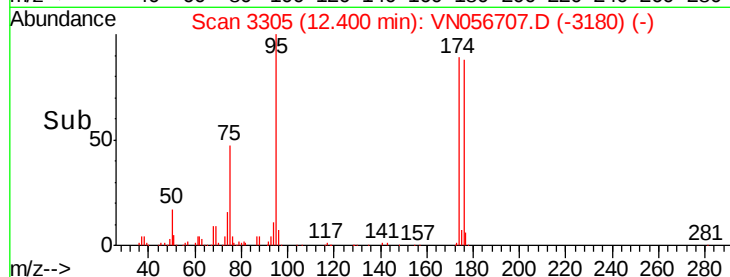
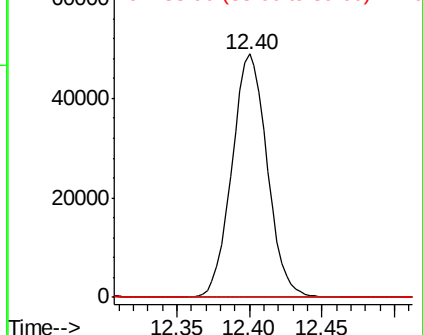
89 0.0 36.2 54.2#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#82

4-Chlorotoluene

Concen: 0.830 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. 0.00 min

Lab File: VN056707.D

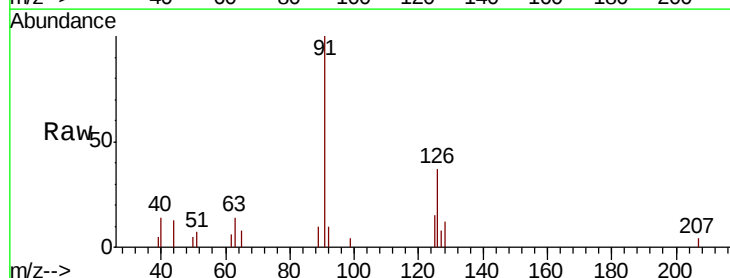
Acq: 15 Jul 2019 13:20

Tgt Ion: 91 Resp: 6470

Ion Ratio Lower Upper

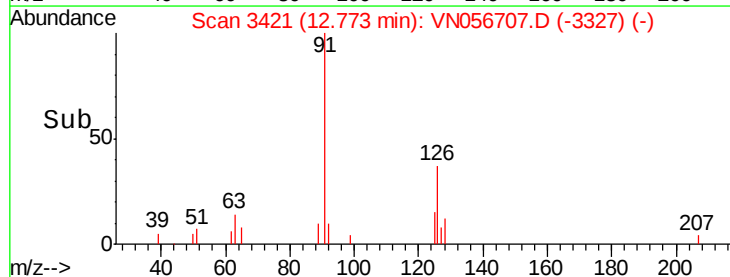
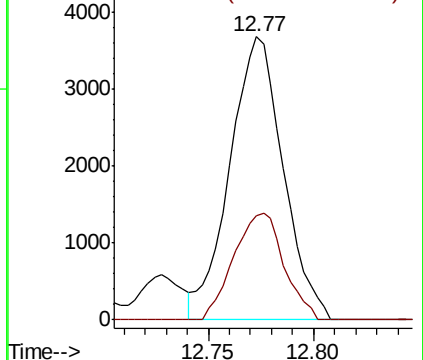
91 100

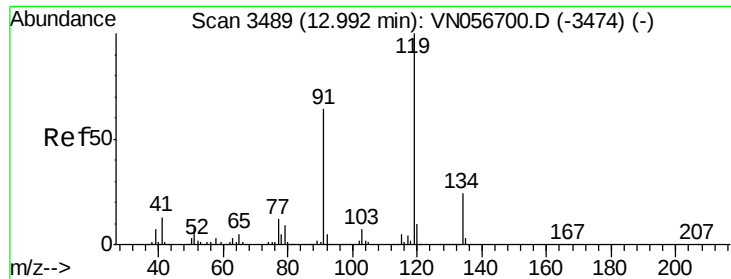
126 35.5 17.6 52.8



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V

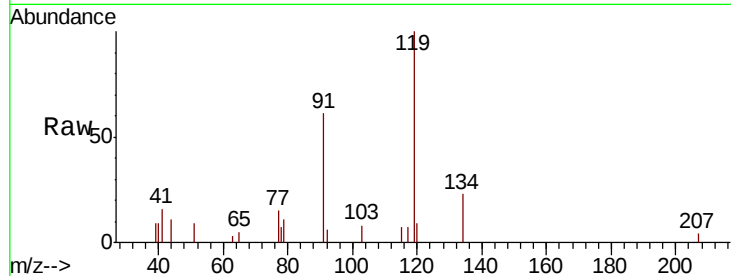




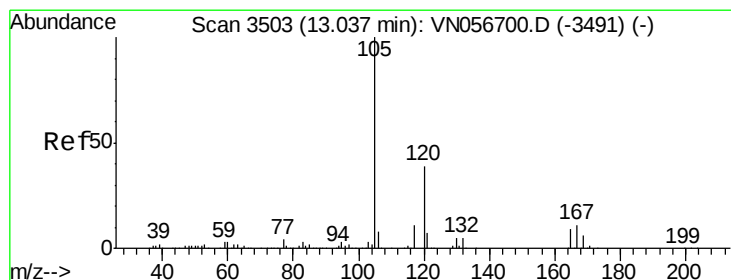
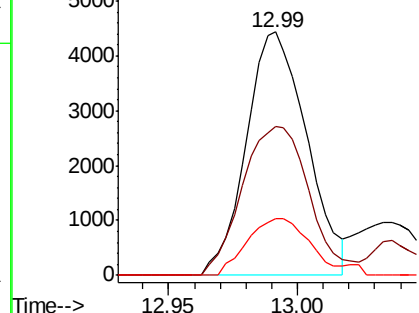
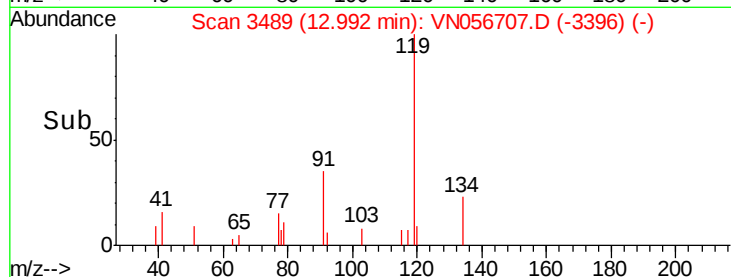
#83
tert-Butylbenzene
Concen: Below Cal
RT: 12.99 min Scan# 3489
Delta R.T. 0.00 min
Lab File: VN056707.D
Acq: 15 Jul 2019 13:20

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT3-2019

Tot Ion:119 Resp: 7274
Ion Ratio Lower Upper
119 100
91 67.7 31.8 95.4
134 25.0 13.0 38.9

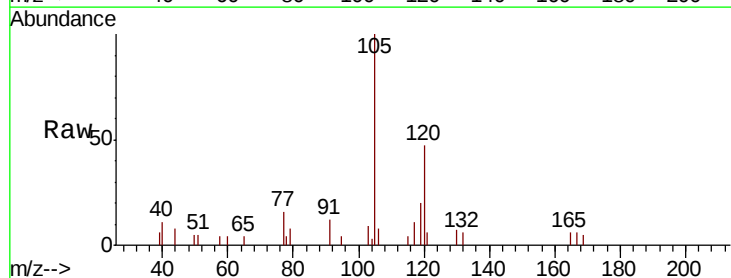


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): V
Ion 134.00 (133.70 to 134.70): V

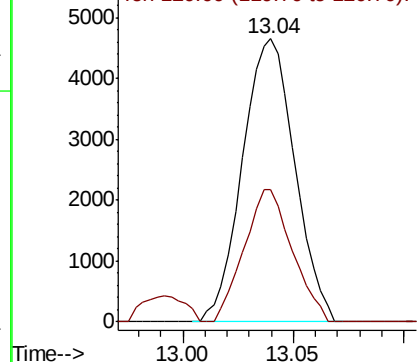
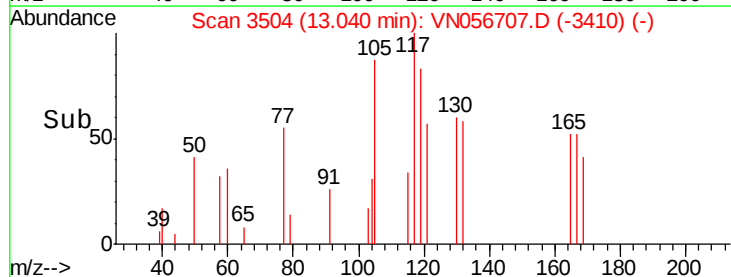


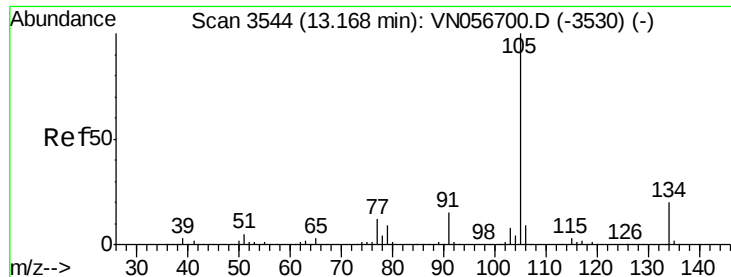
#84
1,2,4-Trimethylbenzene
Concen: 0.772 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. 0.00 min
Lab File: VN056707.D
Acq: 15 Jul 2019 13:20

Tgt Ion:105 Resp: 7643
Ion Ratio Lower Upper
105 100
120 43.0 22.9 68.8



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





#85

sec-Butylbenzene

Concen: 0.793 ug/l

RT: 13.17 min Scan# 3544

Delta R.T. -0.00 min

Lab File: VN056707.D

Acq: 15 Jul 2019 13:20

Instrument :

MSVOA_N

ClientSampleId :

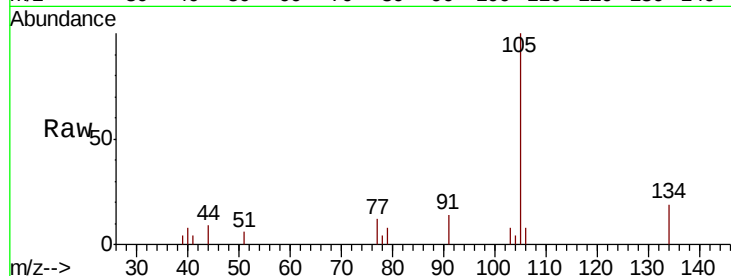
LOD-MDL-WATER-01-QT3-2019

Tot Ion:105 Resp: 8935

Ion Ratio Lower Upper

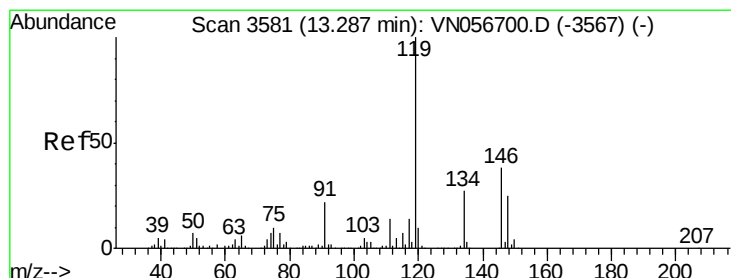
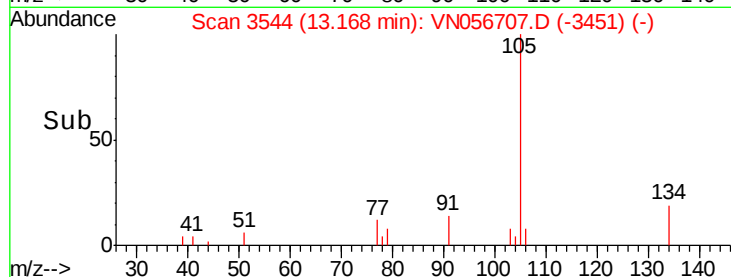
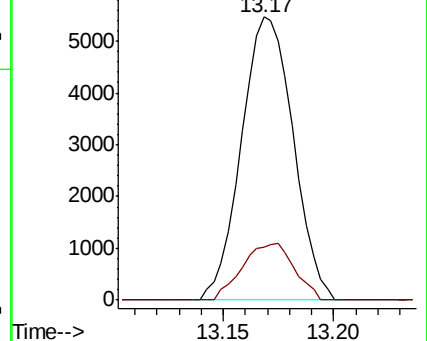
105 100

134 20.0 10.1 30.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 0.744 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. -0.00 min

Lab File: VN056707.D

Acq: 15 Jul 2019 13:20

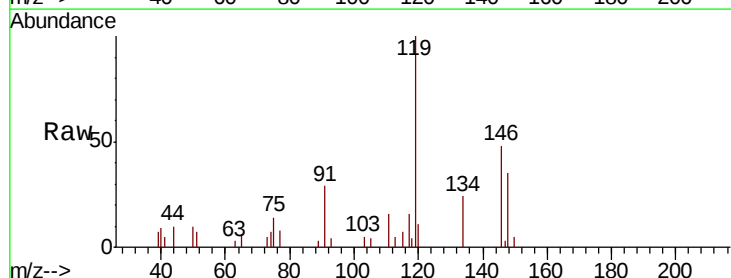
Tgt Ion:119 Resp: 7590

Ion Ratio Lower Upper

119 100

134 24.2 13.6 40.7

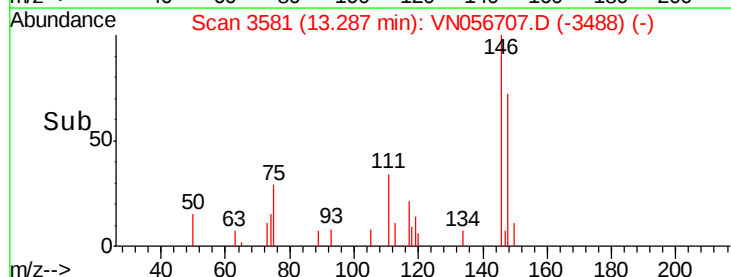
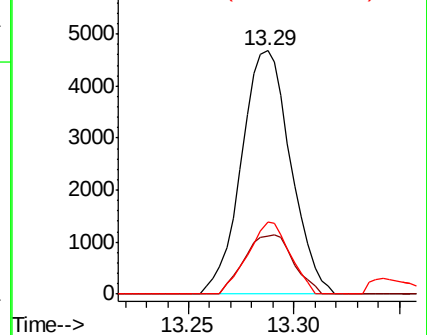
91 25.4 11.2 33.5

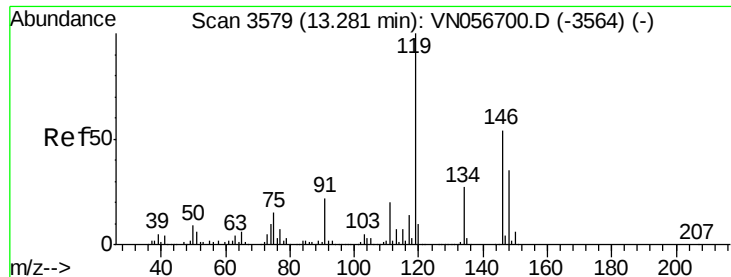


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





#87

1,3-Dichlorobenzene

Concen: 0.759 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. 0.00 min

Lab File: VN056707.D

Acq: 15 Jul 2019 13:20

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

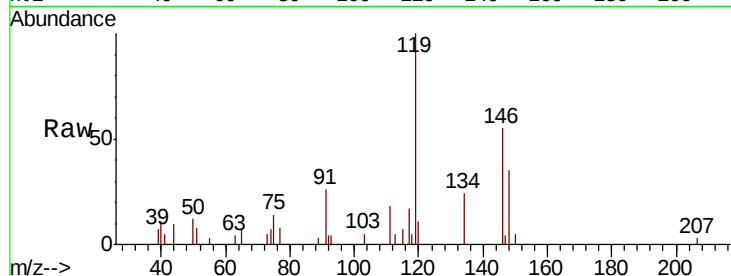
Tot Ion:146 Resp: 3890

Ion Ratio Lower Upper

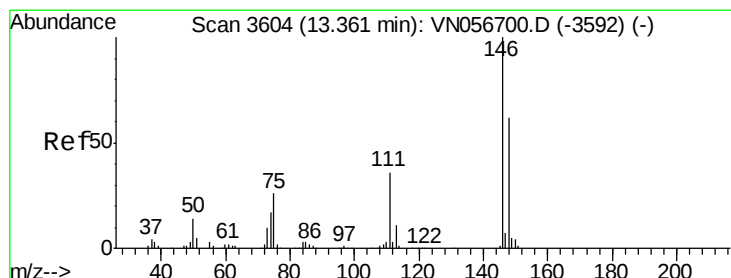
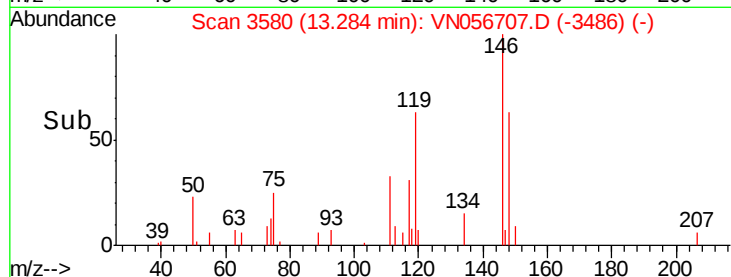
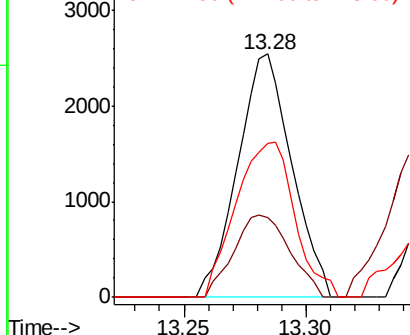
146 100

111 35.3 18.8 56.3

148 69.6 32.3 96.8



Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V



#88

1,4-Dichlorobenzene

Concen: 0.780 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. -0.08 min

Lab File: VN056707.D

Acq: 15 Jul 2019 13:20

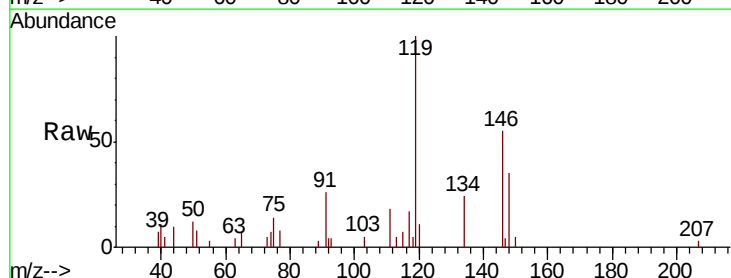
Tgt Ion:146 Resp: 3890

Ion Ratio Lower Upper

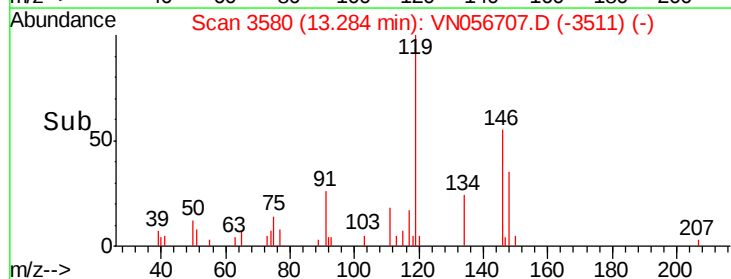
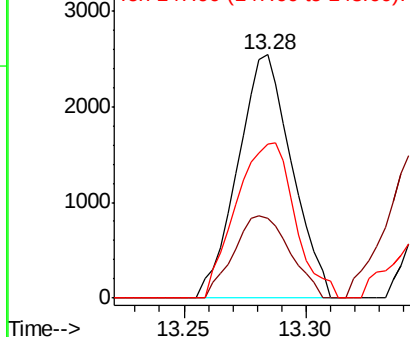
146 100

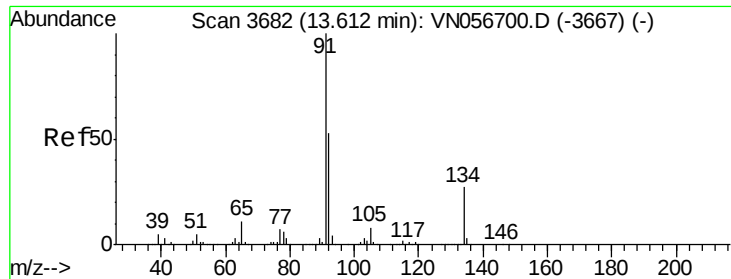
111 35.3 18.6 55.8

148 69.6 31.9 95.7



Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V





#89

n-Butylbenzene

Concen: 0.655 ug/l

RT: 13.61 min Scan# 3682

Delta R.T. -0.00 min

Lab File: VN056707.D

Acq: 15 Jul 2019 13:20

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

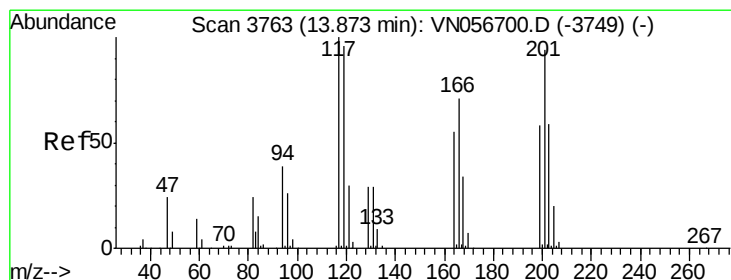
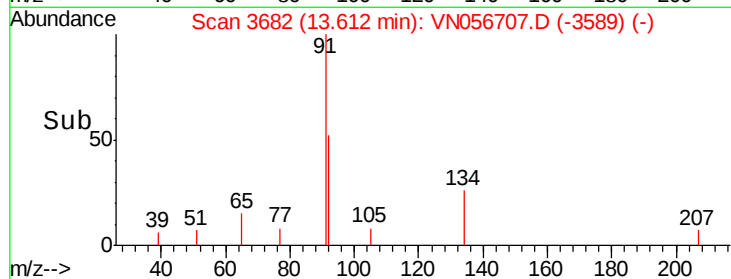
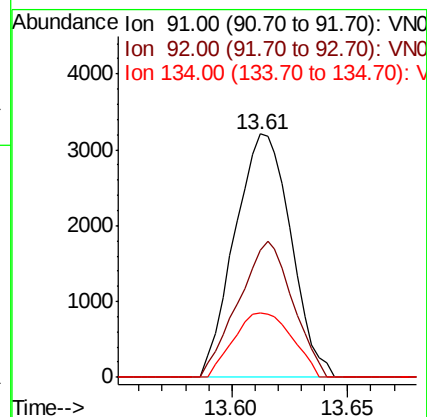
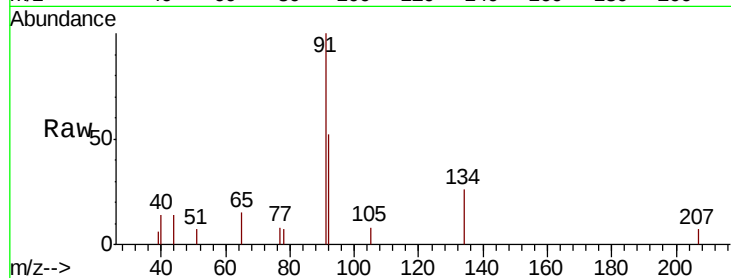
Tot Ion: 91 Resp: 5382

Ion Ratio Lower Upper

91 100

92 54.3 26.0 78.0

134 27.7 13.4 40.2



#90

Hexachloroethane

Concen: 0.614 ug/l

RT: 13.87 min Scan# 3763

Delta R.T. -0.00 min

Lab File: VN056707.D

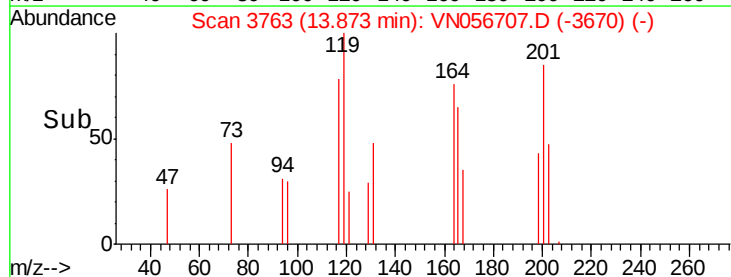
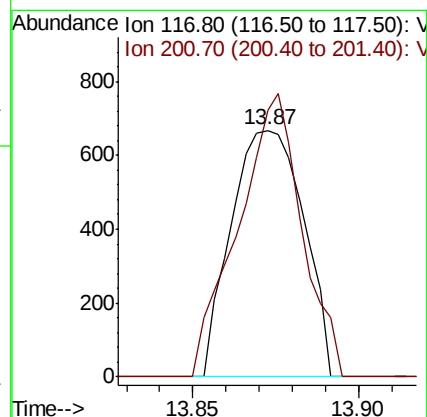
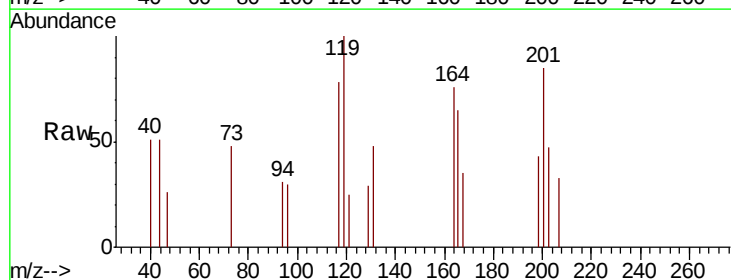
Acq: 15 Jul 2019 13:20

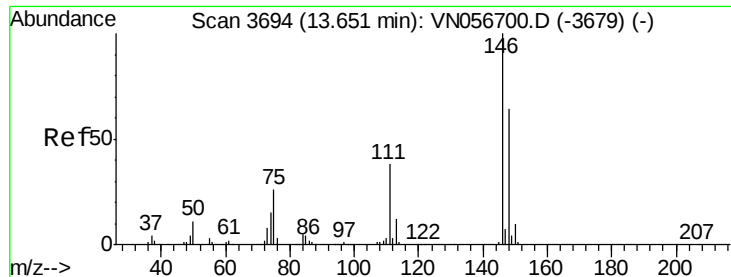
Tgt Ion: 117 Resp: 1014

Ion Ratio Lower Upper

117 100

201 101.2 46.5 139.5





#91

1,2-Dichlorobenzene

Concen: 0.737 ug/l

RT: 13.65 min Scan# 3694

Delta R.T. -0.00 min

Lab File: VN056707.D

Acq: 15 Jul 2019 13:20

Instrument :

MSVOA_N

ClientSampleId :

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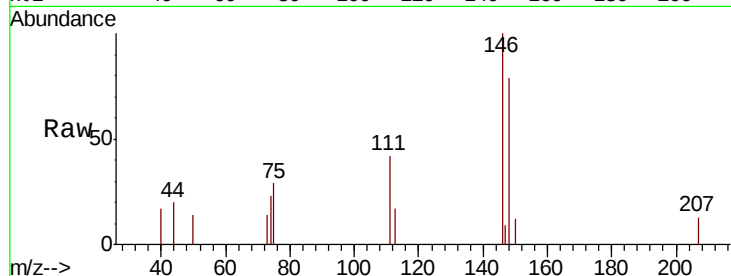
Tot Ion:146 Resp: 3867

Ion Ratio Lower Upper

146 100

111 41.1 19.1 57.1

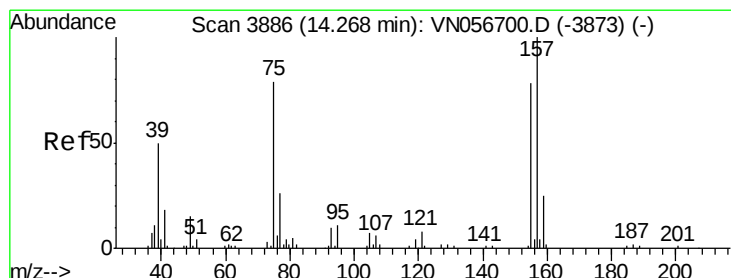
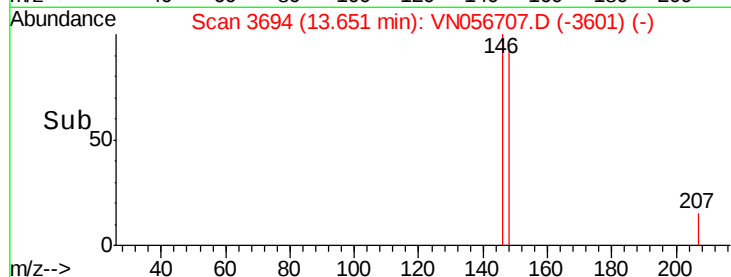
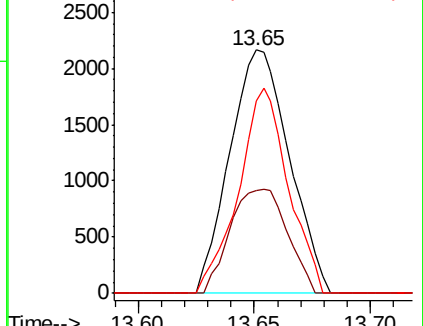
148 70.4 31.7 95.1



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.582 ug/l

RT: 14.27 min Scan# 3887

Delta R.T. 0.00 min

Lab File: VN056707.D

Acq: 15 Jul 2019 13:20

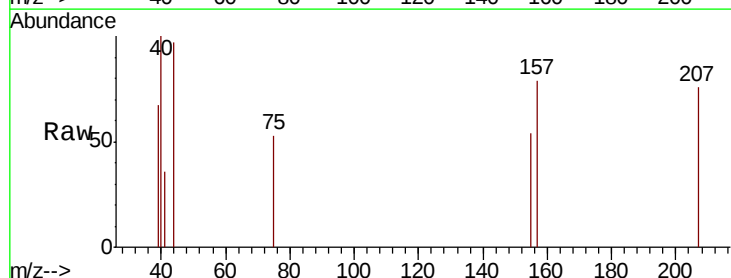
Tgt Ion: 75 Resp: 373

Ion Ratio Lower Upper

75 100

155 82.3 49.3 147.9

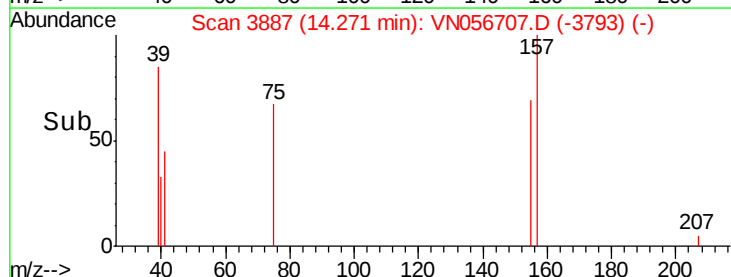
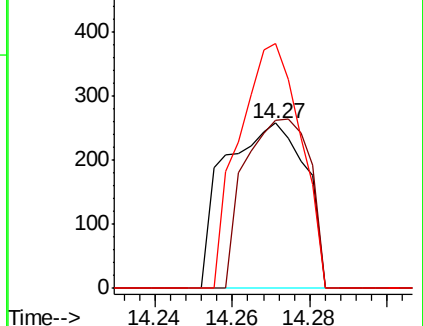
157 112.9 62.4 187.1

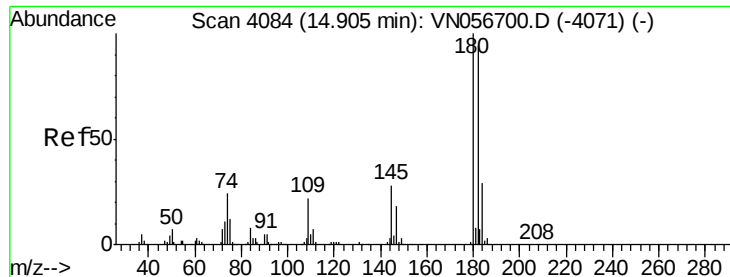


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

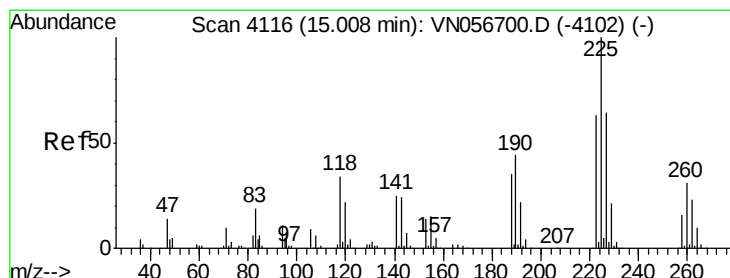
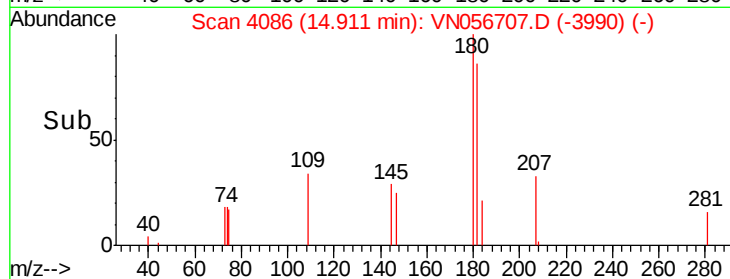
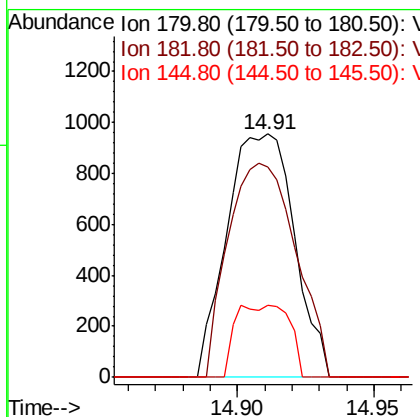
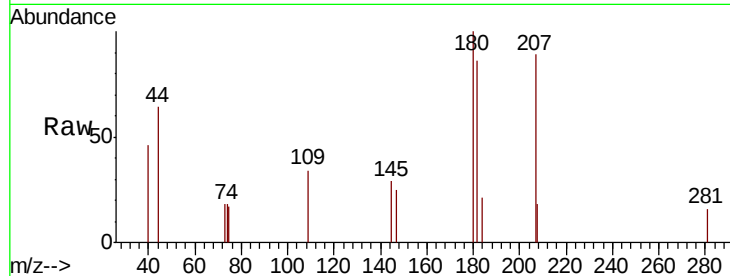




#93
 1,2,4-Trichlorobenzene
 Concen: 4.215 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.01 min
 Lab File: VN056707.D
 Acq: 15 Jul 2019 13:20

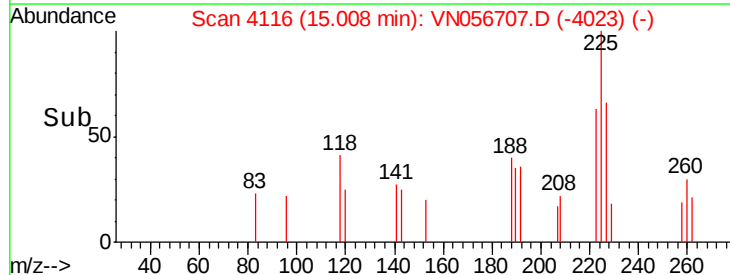
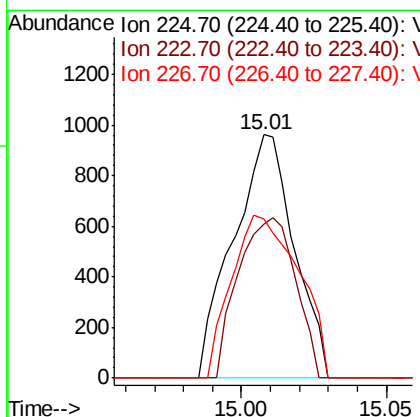
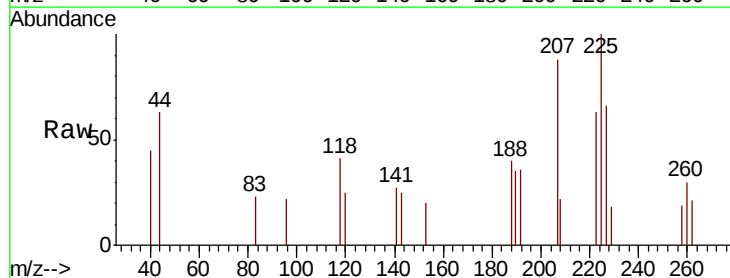
Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2019

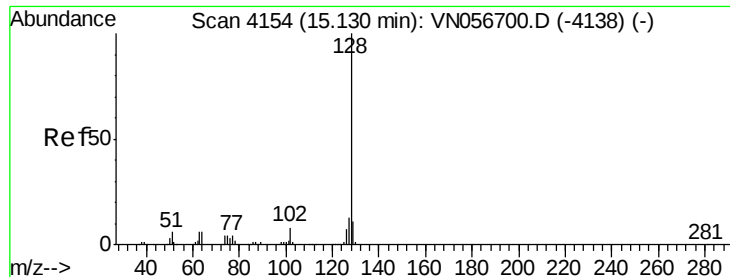
Tot Ion:180 Resp: 1639
 Ion Ratio Lower Upper
 180 100
 182 88.5 47.2 141.6
 145 12.1 14.2 42.8#



#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN056707.D
 Acq: 15 Jul 2019 13:20

Tgt Ion:225 Resp: 1408
 Ion Ratio Lower Upper
 225 100
 223 61.6 31.5 94.5
 227 73.9 32.0 96.2





#95

Naphthalene

Concen: 5.030 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN056707.D

Acq: 15 Jul 2019 13:20

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion:128 Resp: 4405

Ion Ratio Lower Upper

128 100

127 11.4

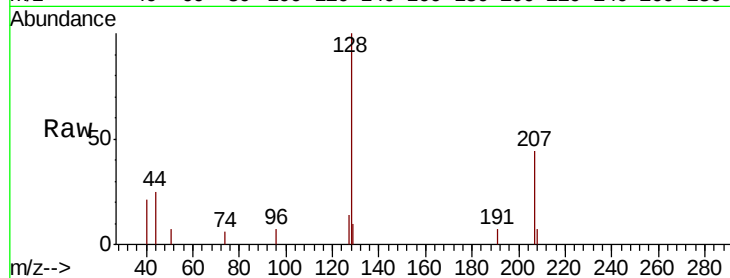
10.3

15.5

129 5.5

8.7

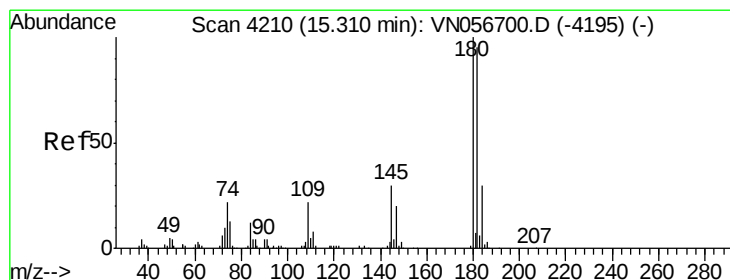
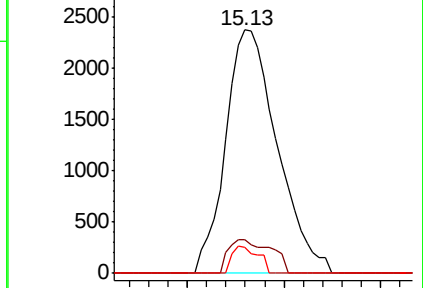
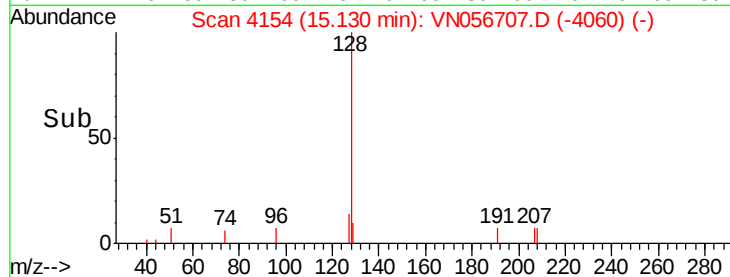
13.1#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 3.938 ug/l

RT: 15.31 min Scan# 4210

Delta R.T. 0.00 min

Lab File: VN056707.D

Acq: 15 Jul 2019 13:20

Tgt Ion:180 Resp: 1896

Ion Ratio Lower Upper

180 100

182 98.9

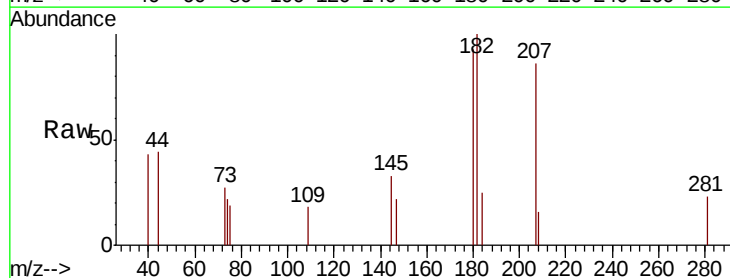
47.1

141.3

145 29.0

15.0

45.1



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

