

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101519\
 Data File : VN058774.D
 Acq On : 15 Oct 2019 12:14
 Operator : JC/SP
 Sample : K5111-09 0.5PPB MDL
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019DL

Quant Time: Oct 16 04:13:28 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101319W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 12 00:00:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	351833	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	578130	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	518173	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	209831	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.01	65	257611	52.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.60%	
35) Dibromofluoromethane	7.57	113	180910	50.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.32%	
50) Toluene-d8	10.08	98	664889	46.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.12%	
62) 4-Bromofluorobenzene	12.40	95	225633	41.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	83.48%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.83	85	2170	0.495 ug/l	99
3) Chloromethane	2.04	50	2874	0.552 ug/l	95
4) Vinyl Chloride	2.17	62	2551	0.492 ug/l	96
5) Bromomethane	2.54	94	947	0.300 ug/l	91
6) Chloroethane	2.69	64	1743	0.545 ug/l #	79
7) Trichlorofluoromethane	3.00	101	3041	0.490 ug/l	97
8) Diethyl Ether	3.39	74	934	0.407 ug/l #	28
10) Methyl Iodide	3.93	142	1885	0.390 ug/l #	82
11) Tert butyl alcohol	4.76	59	1018	1.276 ug/l #	72
12) 1,1-Dichloroethene	3.72	96	1479	0.438 ug/l	98
13) Acrolein	3.59	56	1700	2.650 ug/l #	61
14) Allyl chloride	4.29	41	3728	0.547 ug/l #	72
15) Acrylonitrile	4.95	53	1426	0.709 ug/l #	17
16) Acetone	3.80	43	6368	3.123 ug/l	89
17) Carbon Disulfide	4.03	76	6712	0.621 ug/l #	89
18) Methyl Acetate	4.31	43	3499	0.676 ug/l #	89
19) Methyl tert-butyl Ether	5.02	73	5928	0.491 ug/l	99
20) Methylene Chloride	4.52	84	2834	0.665 ug/l #	82
21) trans-1,2-Dichloroethene	5.01	96	1570	0.415 ug/l #	57
22) Diisopropyl ether	5.93	45	5491	0.414 ug/l #	69
23) Vinyl Acetate	5.88	43	23843	2.229 ug/l	99
24) 1,1-Dichloroethane	5.81	63	2063	0.273 ug/l #	85
25) 2-Butanone	6.82	43	7480	2.538 ug/l #	89
26) 2,2-Dichloropropane	6.81	77	4335	0.629 ug/l #	68
27) cis-1,2-Dichloroethene	6.80	96	1240	0.281 ug/l #	2
28) Bromochloromethane	7.18	49	1569	0.597 ug/l #	76
29) Tetrahydrofuran	7.19	42	4448	2.335 ug/l #	71
30) Chloroform	7.36	83	4616	0.608 ug/l	98
31) Cyclohexane	7.64	56	11520	1.595 ug/l #	19
32) 1,1,1-Trichloroethane	7.56	97	3333	0.515 ug/l #	37
36) 1,1-Dichloropropene	7.77	75	2855	0.488 ug/l #	85
37) Ethyl Acetate	6.92	43	2535	0.429 ug/l #	72
38) Carbon Tetrachloride	7.64	117	35487	6.229 ug/l #	17
39) Methylcyclohexane	9.07	83	2744	0.405 ug/l #	82

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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Benzene	8.02	78	8309	0.495	ug/l	93
41) Methacrylonitrile	7.14	41	566	0.205	ug/l #	61
42) 1,2-Dichloroethane	8.11	62	3677	0.570	ug/l #	78
43) Isopropyl Acetate	8.15	43	4200	0.417	ug/l #	88
44) Trichloroethene	8.82	130	2356	0.565	ug/l	79
45) 1,2-Dichloropropane	9.11	63	2212	0.492	ug/l	97
46) Dibromomethane	9.20	93	1480	0.519	ug/l	91
47) Bromodichloromethane	9.39	83	2719	0.469	ug/l #	92
48) Methyl methacrylate	9.19	41	2249	0.493	ug/l #	85
49) 1,4-Dioxane	9.19	88	630	8.921	ug/l #	59
51) 4-Methyl-2-Pentanone	9.98	43	12930	2.286	ug/l	98
52) Toluene	10.15	92	5370	0.523	ug/l	98
53) t-1,3-Dichloropropene	10.38	75	4450	0.669	ug/l #	40
54) cis-1,3-Dichloropropene	9.83	75	3517	0.498	ug/l	92
55) 1,1,2-Trichloroethane	10.55	97	2268	0.540	ug/l	89
56) Ethyl methacrylate	10.42	69	2415	0.393	ug/l #	77
57) 1,3-Dichloropropane	10.71	76	3272	0.457	ug/l #	86
58) 2-Chloroethyl Vinyl ether	9.69	63	6139	2.075	ug/l	94
59) 2-Hexanone	10.75	43	9881	2.261	ug/l	93
60) Dibromochloromethane	10.90	129	1777	0.410	ug/l	100
61) 1,2-Dibromoethane	11.00	107	2047	0.486	ug/l	92
64) Tetrachloroethene	10.63	164	2189	0.604	ug/l	91
65) Chlorobenzene	11.43	112	5170	0.491	ug/l	96
66) 1,1,1,2-Tetrachloroethane	11.51	131	1996	0.513	ug/l #	54
67) Ethyl Benzene	11.51	91	8806	0.469	ug/l	99
68) m/p-Xylenes	11.62	106	6109	0.868	ug/l	99
69) o-Xylene	11.95	106	2821	0.414	ug/l	100
70) Stvrene	11.97	104	4135	0.370	ug/l	92
71) Bromoform	12.13	173	1227	0.430	ug/l #	78
73) Isopropylbenzene	12.25	105	7579	0.499	ug/l	95
74) N-amyl acetate	12.07	43	2715	0.398	ug/l	95
75) 1,1,2,2-Tetrachloroethane	12.51	83	2989	0.597	ug/l #	93
76) 1,2,3-Trichloropropane	12.40	75	121631	26.423	ug/l #	100
77) Bromobenzene	12.53	156	2154	0.583	ug/l	84
78) n-propylbenzene	12.59	91	9500	0.536	ug/l	98
79) 2-Chlorotoluene	12.68	91	5685	0.517	ug/l	95
80) 1,3,5-Trimethylbenzene	12.74	105	6187	0.477	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.40	75	121631	70.779	ug/l #	11
82) 4-Chlorotoluene	12.78	91	5707	0.506	ug/l	99
83) tert-Butylbenzene	13.00	119	5595	0.503	ug/l	98
84) 1,2,4-Trimethylbenzene	13.04	105	5662	0.440	ug/l	87
85) sec-Butylbenzene	13.18	105	6609	0.451	ug/l	87
86) p-Isopropyltoluene	13.29	119	5805	0.436	ug/l	94
87) 1,3-Dichlorobenzene	13.29	146	3458	0.507	ug/l	92
88) 1,4-Dichlorobenzene	13.29	146	3458	0.499	ug/l	92
89) n-Butylbenzene	13.62	91	5197	0.422	ug/l	98
90) Hexachloroethane	13.88	117	1351	0.567	ug/l	81
91) 1,2-Dichlorobenzene	13.66	146	3292	0.496	ug/l	93
92) 1,2-Dibromo-3-Chloropropan	14.27	75	897	0.767	ug/l #	52
93) 1,2,4-Trichlorobenzene	14.92	180	1846	0.455	ug/l	85

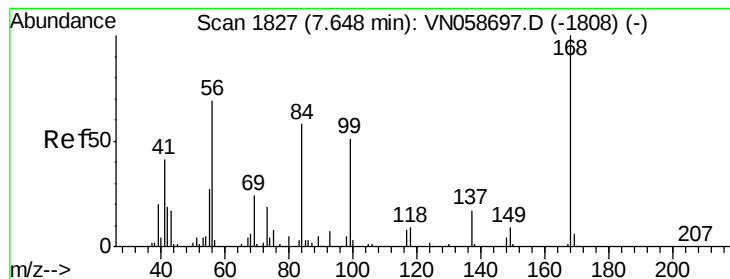
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) Hexachlorobutadiene	15.01	225	1172	0.549	ug/l	95
95) Naphthalene	15.13	128	5590	0.480	ug/l	97
96) 1,2,3-Trichlorobenzene	15.30	180	1909	0.482	ug/l #	86

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. -0.00 min

Lab File: VN058774.D

Acq: 15 Oct 2019 12:14

Instrument :

MSVOA_N

ClientSampleId :

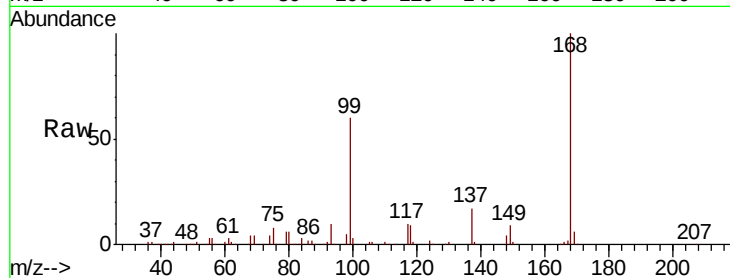
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion:168 Resp: 351833

Ion Ratio Lower Upper

168 100

99 60.2 47.5 71.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

150000

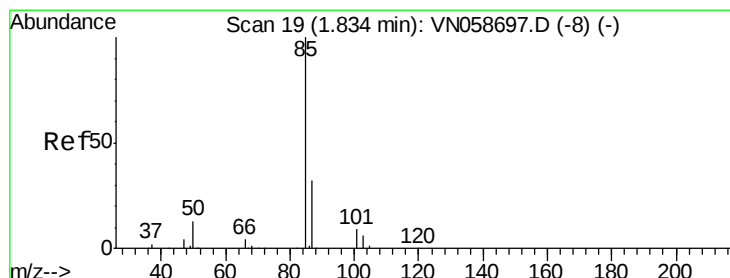
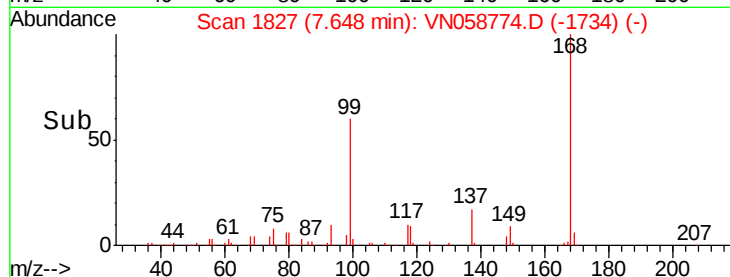
100000

50000

0

7.50 7.60 7.70 7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 0.495 ug/l

RT: 1.83 min Scan# 19

Delta R.T. -0.00 min

Lab File: VN058774.D

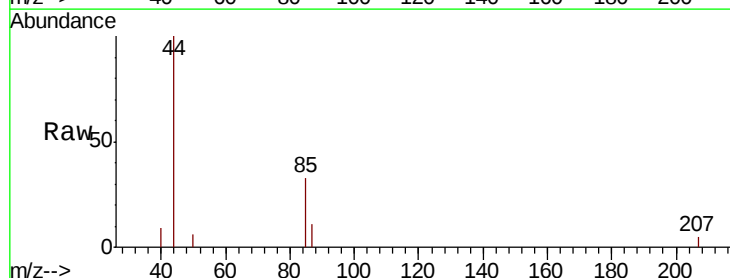
Acq: 15 Oct 2019 12:14

Tgt Ion: 85 Resp: 2170

Ion Ratio Lower Upper

85 100

87 32.1 16.2 48.6



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

1.83

1500

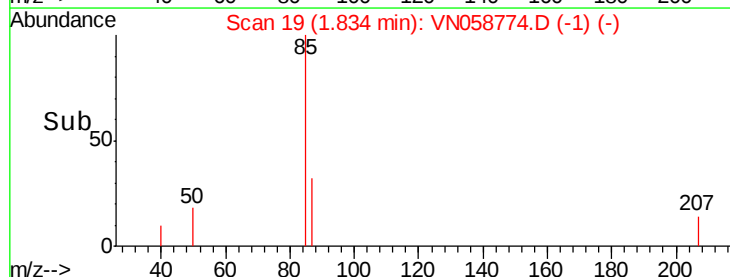
1000

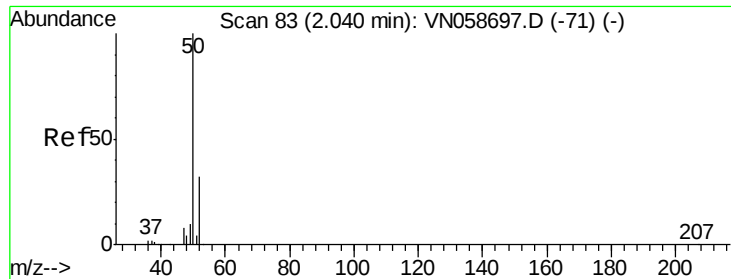
500

0

1.80 1.85

Time-->





#3

Chloromethane

Concen: 0.552 ug/l

RT: 2.04 min Scan# 84

Delta R.T. 0.00 min

Lab File: VN058774.D

Acq: 15 Oct 2019 12:14

Instrument :

MSVOA_N

ClientSampleId :

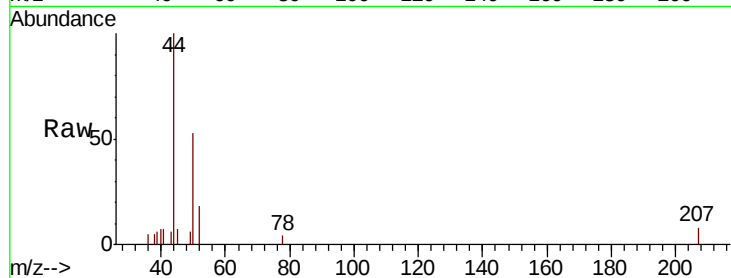
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion: 50 Resp: 2874

Ion Ratio Lower Upper

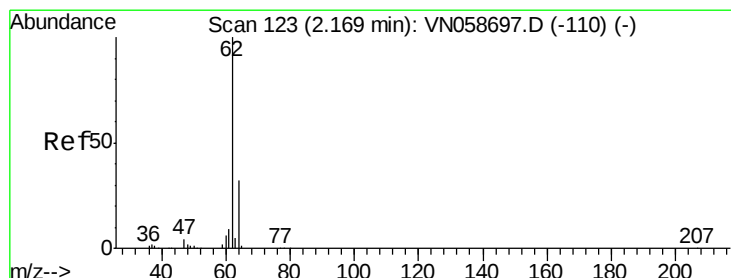
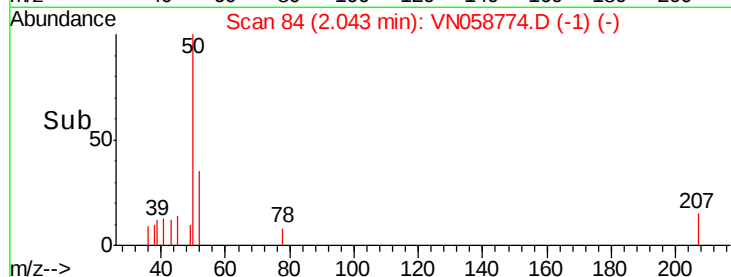
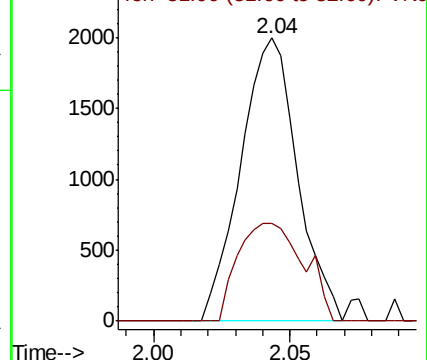
50 100

52 34.7 25.8 38.6



Abundance Ion 49.90 (49.60 to 50.60): VNC

Ion 51.90 (51.60 to 52.60): VNC



#4

Vinyl Chloride

Concen: 0.492 ug/l

RT: 2.17 min Scan# 122

Delta R.T. -0.00 min

Lab File: VN058774.D

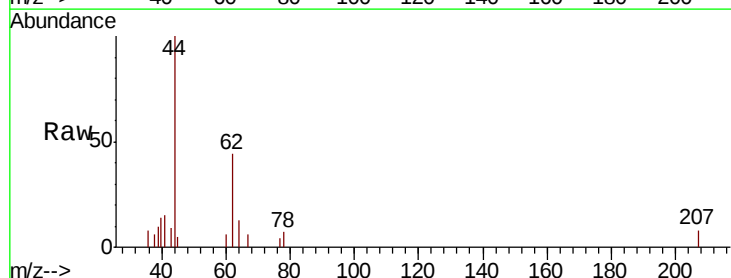
Acq: 15 Oct 2019 12:14

Tgt Ion: 62 Resp: 2551

Ion Ratio Lower Upper

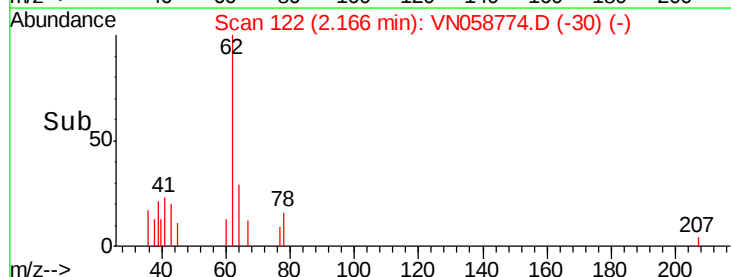
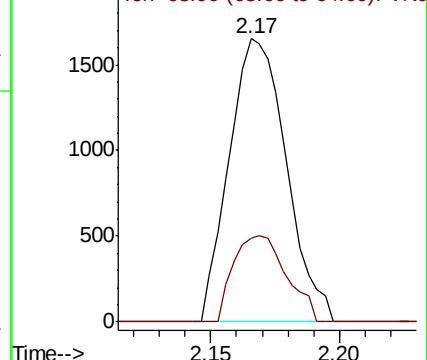
62 100

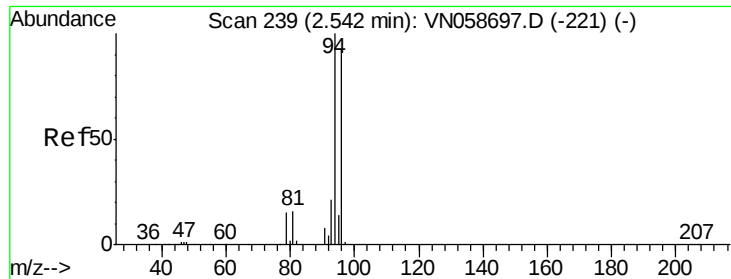
64 29.4 25.3 37.9



Abundance Ion 61.90 (61.60 to 62.60): VNC

Ion 63.90 (63.60 to 64.60): VNC





#5

Bromomethane

Concen: 0.300 ug/l

RT: 2.54 min Scan# 240

Delta R.T. 0.00 min

Lab File: VN058774.D

Acq: 15 Oct 2019 12:14

Instrument :

MSVOA_N

ClientSampleId :

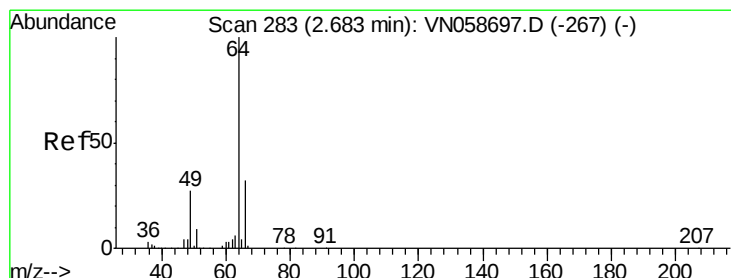
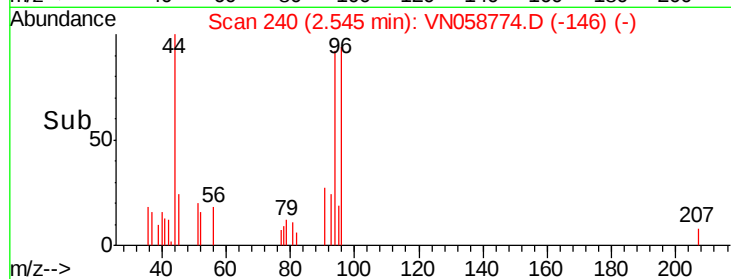
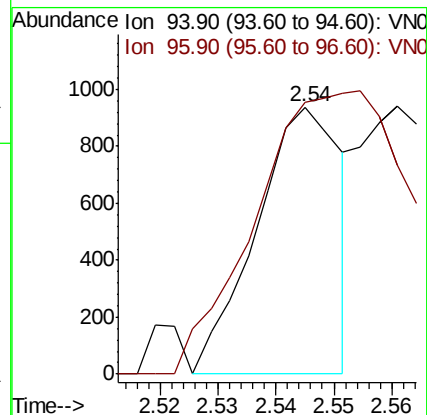
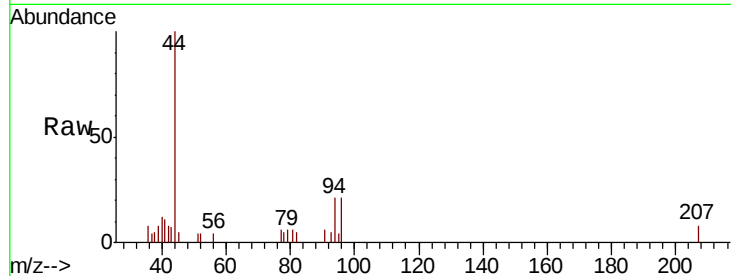
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion: 94 Resp: 947

Ion Ratio Lower Upper

94 100

96 84.8 74.5 111.7



#6

Chloroethane

Concen: 0.545 ug/l

RT: 2.69 min Scan# 285

Delta R.T. 0.01 min

Lab File: VN058774.D

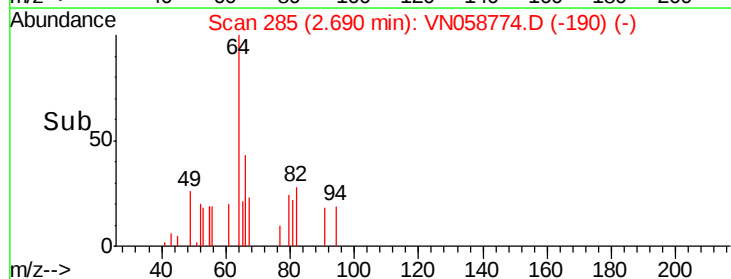
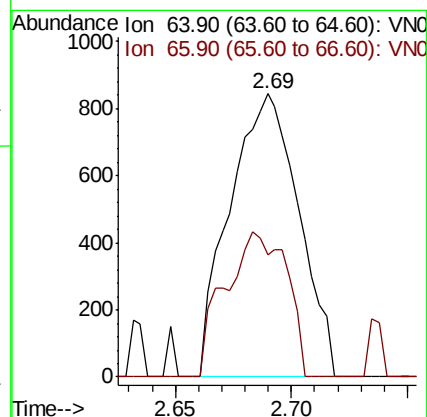
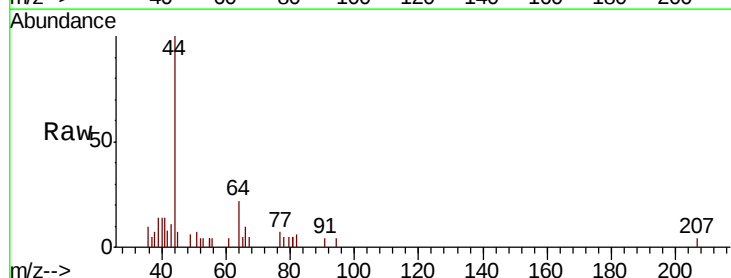
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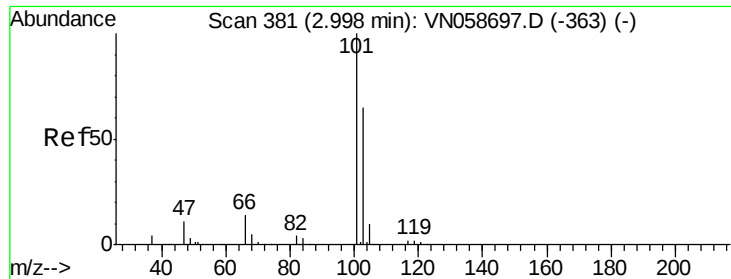
Tgt Ion: 64 Resp: 1743

Ion Ratio Lower Upper

64 100

66 43.4 25.4 38.2#



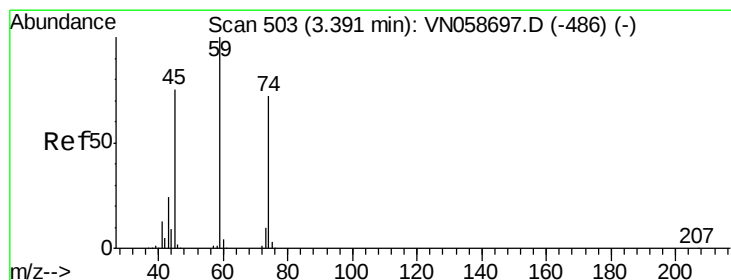
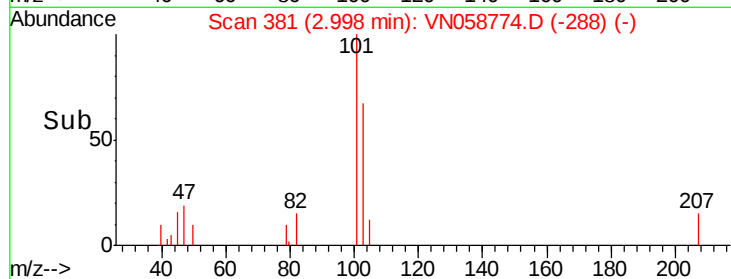
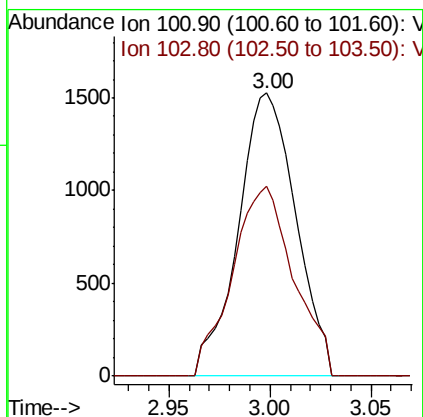
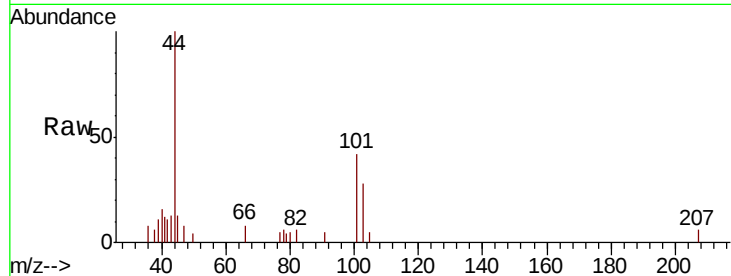


#7

Trichlorofluoromethane
Concen: 0.490 ug/l
RT: 3.00 min Scan# 381
Delta R.T. -0.00 min
Lab File: VN058774.D
Acq: 15 Oct 2019 12:14

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MDL-MDL-WATER-03-QT4-2019DL

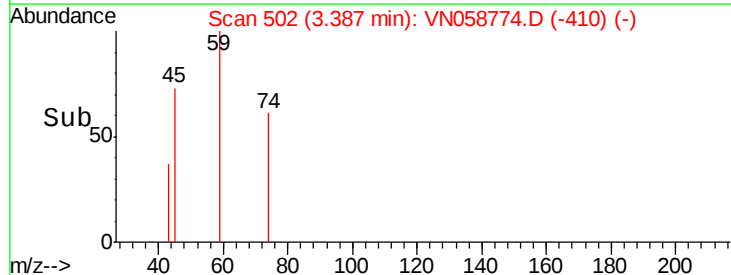
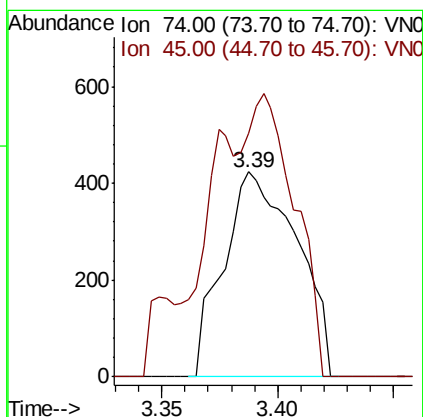
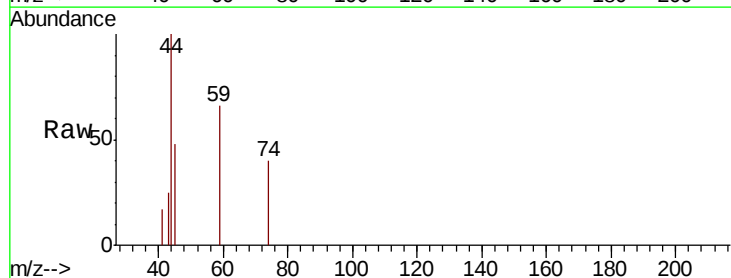
Tot Ion:101 Resp: 3041
Ion Ratio Lower Upper
101 100
103 67.3 51.8 77.6

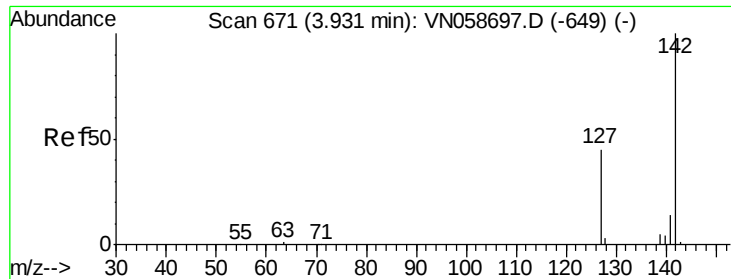


#8

Diethyl Ether
Concen: 0.407 ug/l
RT: 3.39 min Scan# 502
Delta R.T. -0.00 min
Lab File: VN058774.D
Acq: 15 Oct 2019 12:14

Tgt Ion: 74 Resp: 934
Ion Ratio Lower Upper
74 100
45 29.4 51.3 154.0#

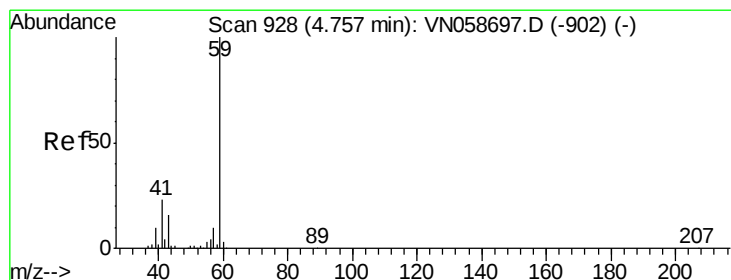
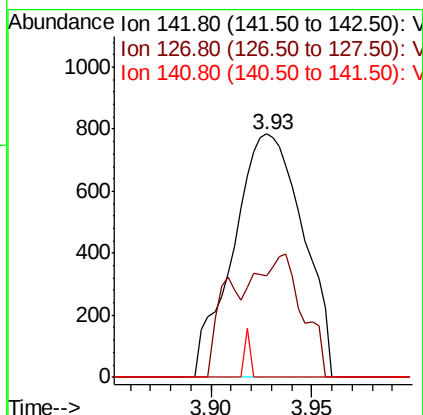
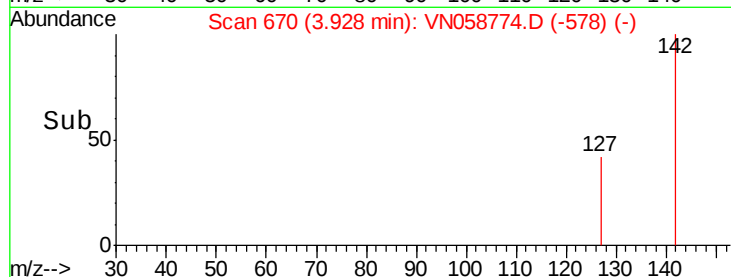
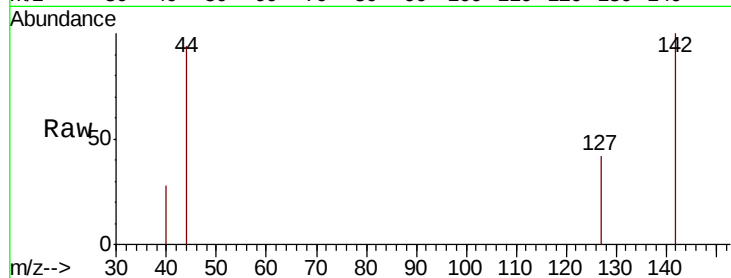




#10
Methvl Iodide
Concen: 0.390 ug/l
RT: 3.93 min Scan# 670
Delta R.T. -0.00 min
Lab File: VN058774.D
Acq: 15 Oct 2019 12:14

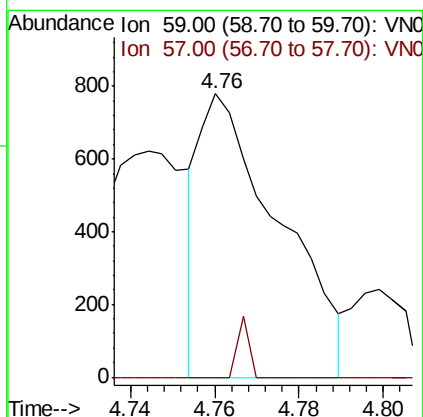
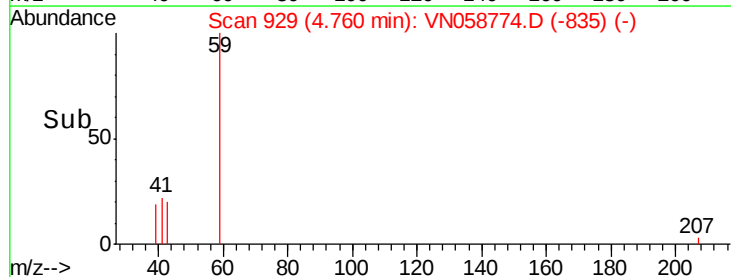
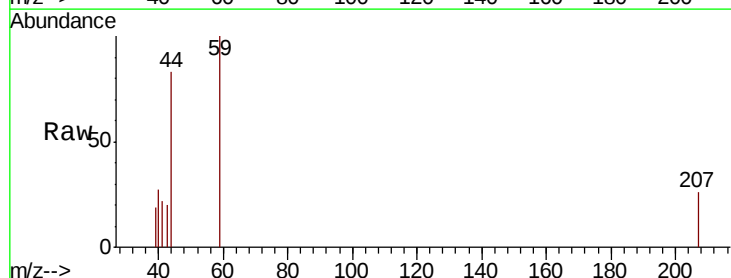
Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

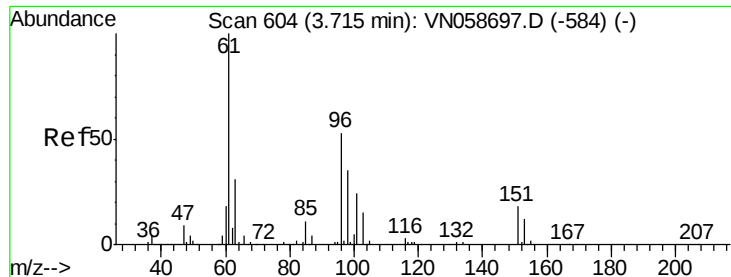
Tot Ion:142 Resp: 1885
Ion Ratio Lower Upper
142 100
127 35.8 36.4 54.6#
141 1.6 11.1 16.7#



#11
Tert butyl alcohol
Concen: 1.276 ug/l
RT: 4.76 min Scan# 929
Delta R.T. 0.00 min
Lab File: VN058774.D
Acq: 15 Oct 2019 12:14

Tgt Ion: 59 Resp: 1018
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#





#12

1,1-Dichloroethene

Concen: 0.438 ug/l

RT: 3.72 min Scan# 604

Delta R.T. -0.00 min

Lab File: VN058774.D

Acq: 15 Oct 2019 12:14

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019DL

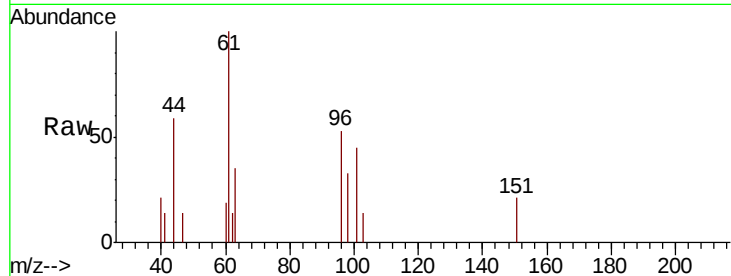
Tot Ion: 96 Resp: 1479

Ion Ratio Lower Upper

96 100

61 187.4 151.3 226.9

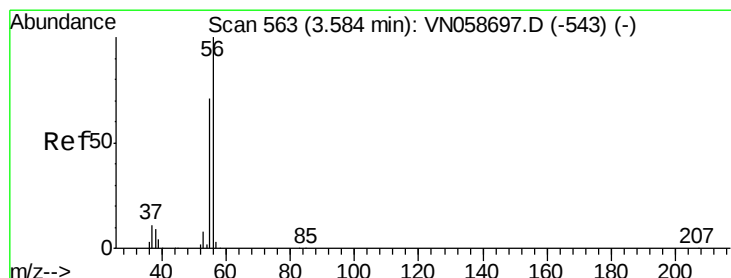
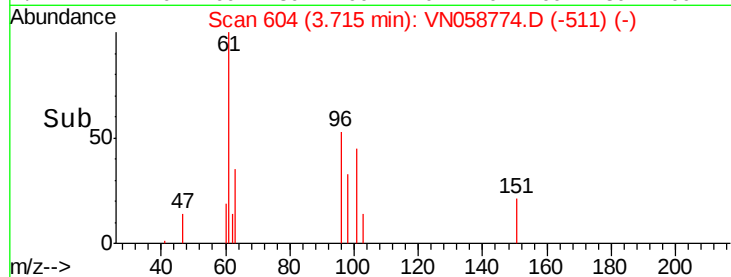
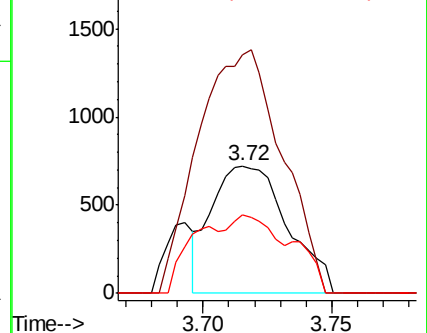
98 61.3 52.6 78.8



Abundance Ion 95.90 (95.60 to 96.60): VN058774.D (-511) (-)

Ion 60.90 (60.60 to 61.60): VN058774.D (-511) (-)

Ion 97.90 (97.60 to 98.60): VN058774.D (-511) (-)



#13

Acrolein

Concen: 2.650 ug/l

RT: 3.59 min Scan# 566

Delta R.T. 0.01 min

Lab File: VN058774.D

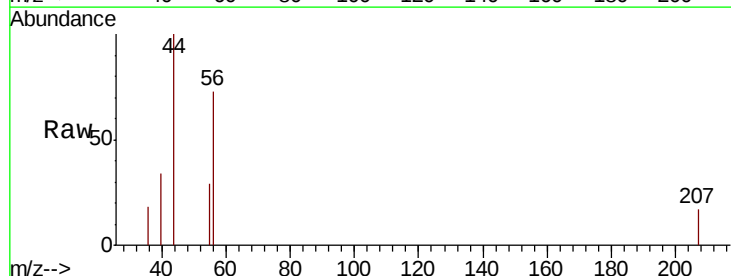
Acq: 15 Oct 2019 12:14

Tgt Ion: 56 Resp: 1700

Ion Ratio Lower Upper

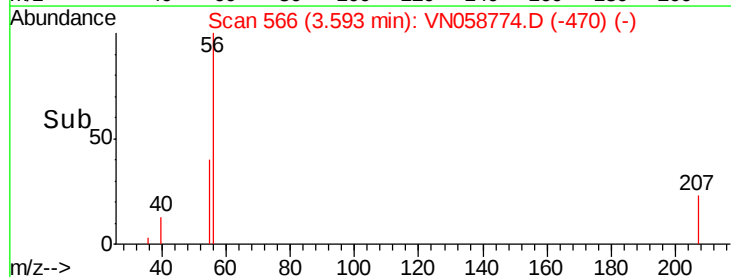
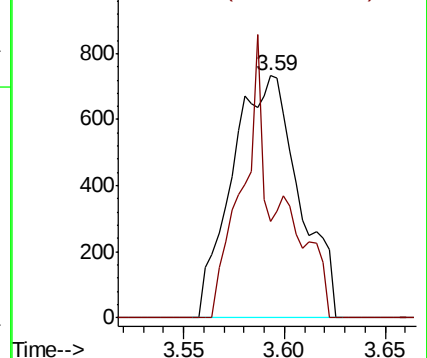
56 100

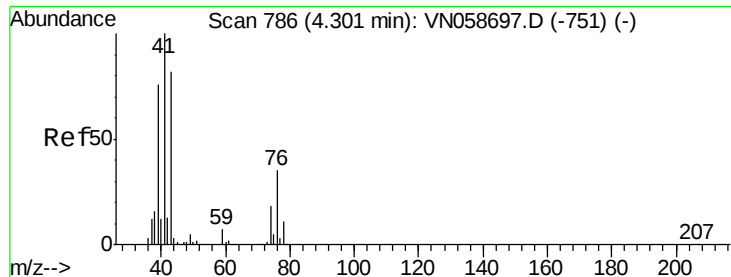
55 38.9 56.7 85.1#



Abundance Ion 56.00 (55.70 to 56.70): VN058774.D (-470) (-)

Ion 55.00 (54.70 to 55.70): VN058774.D (-470) (-)





#14

Allvl chloride

Concen: 0.547 ug/l

RT: 4.29 min Scan# 784

Delta R.T. -0.01 min

Lab File: VN058774.D

Acq: 15 Oct 2019 12:14

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019DL

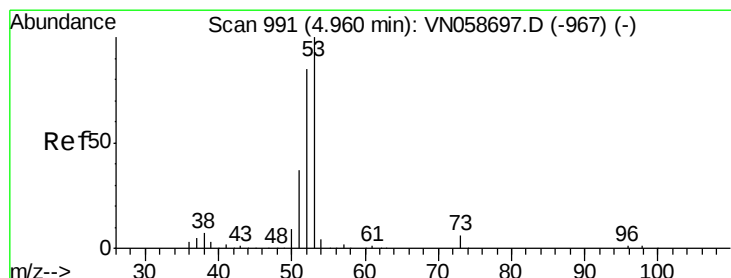
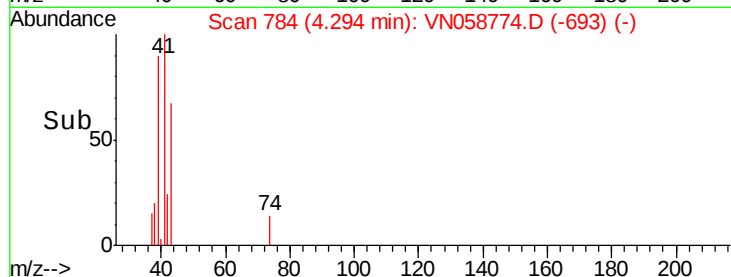
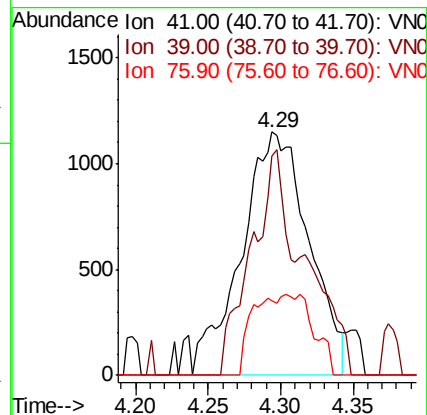
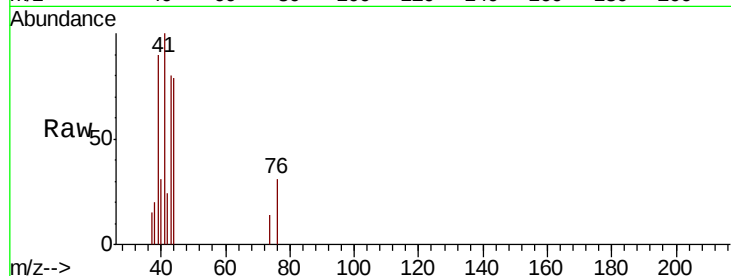
Tot Ion: 41 Resp: 3728

Ion Ratio Lower Upper

41 100

39 50.5 57.2 85.8#

76 13.0 25.0 37.6#



#15

Acrylonitrile

Concen: 0.709 ug/l

RT: 4.95 min Scan# 988

Delta R.T. -0.01 min

Lab File: VN058774.D

Acq: 15 Oct 2019 12:14

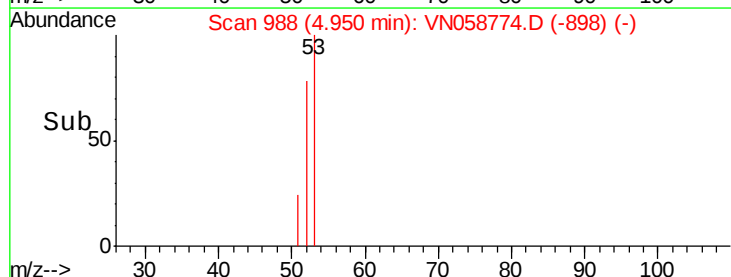
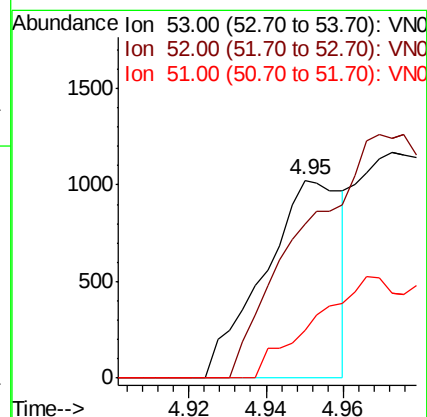
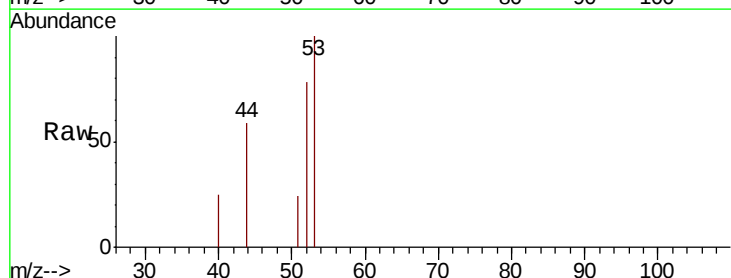
Tgt Ion: 53 Resp: 1426

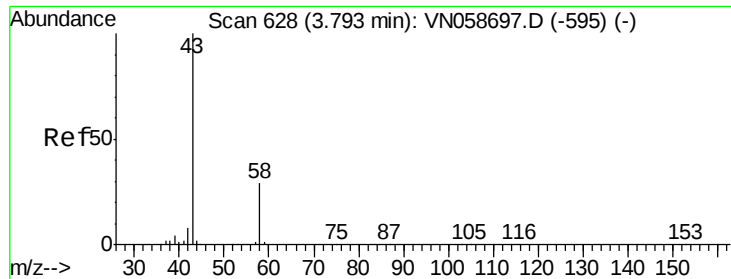
Ion Ratio Lower Upper

53 100

52 0.0 66.2 99.2#

51 0.0 29.4 44.2#





#16

Acetone

Concen: 3.123 ug/l

RT: 3.80 min Scan# 630

Delta R.T. 0.01 min

Lab File: VN058774.D

Acq: 15 Oct 2019 12:14

Instrument :

MSVOA_N

ClientSampleId :

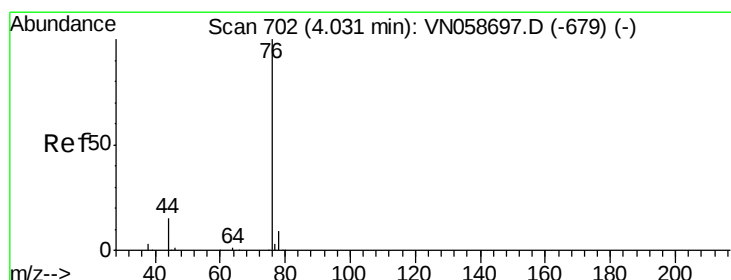
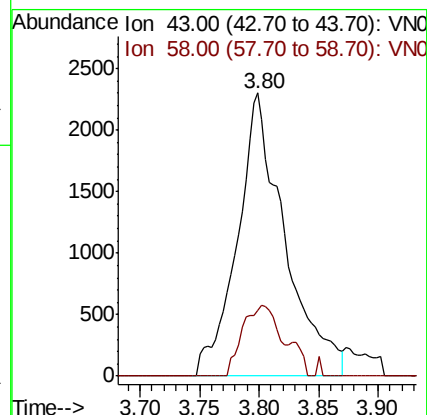
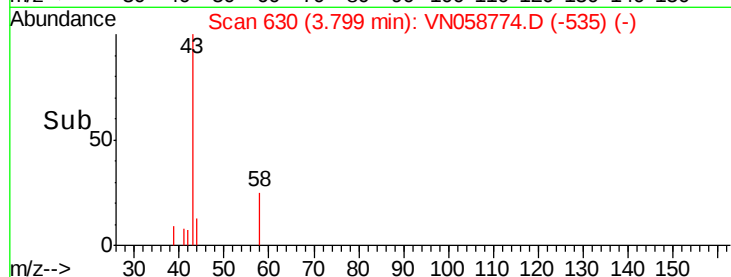
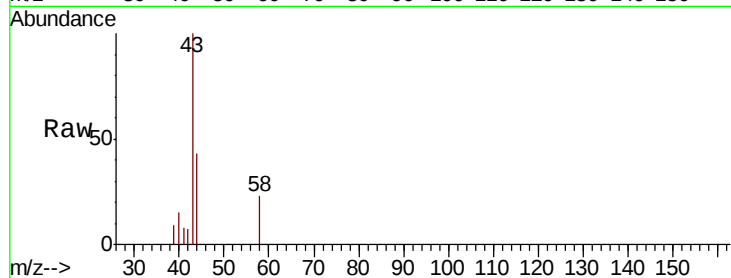
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion: 43 Resp: 6368

Ion Ratio Lower Upper

43 100

58 23.4 23.3 34.9



#17

Carbon Disulfide

Concen: 0.621 ug/l

RT: 4.03 min Scan# 701

Delta R.T. -0.00 min

Lab File: VN058774.D

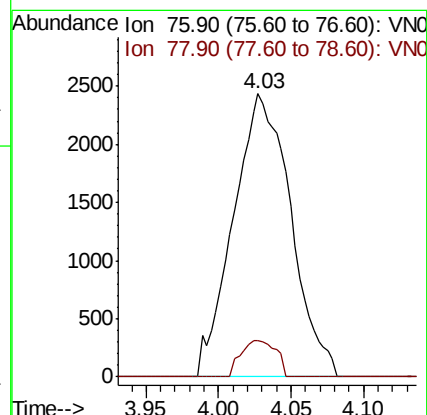
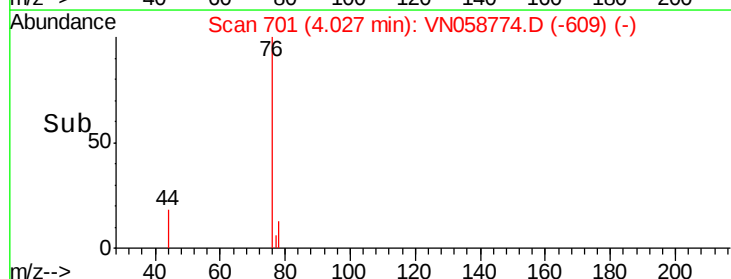
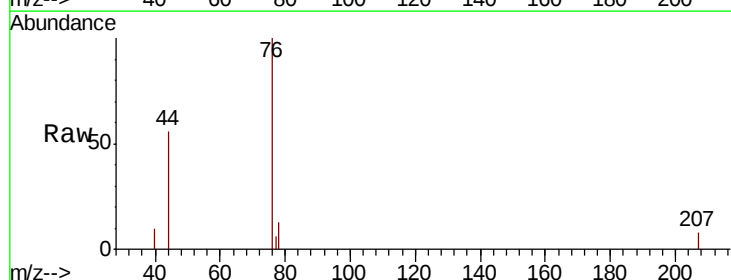
Acq: 15 Oct 2019 12:14

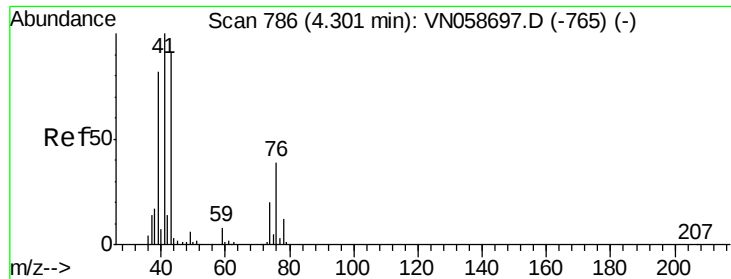
Tgt Ion: 76 Resp: 6712

Ion Ratio Lower Upper

76 100

78 12.9 7.1 10.7#

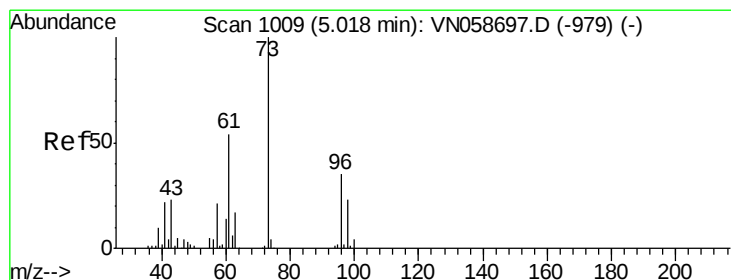
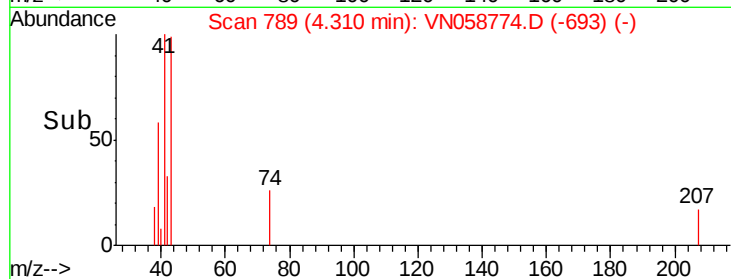
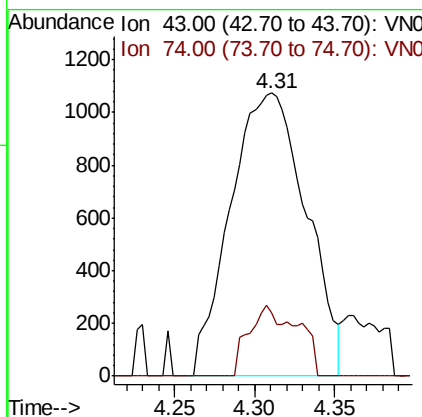
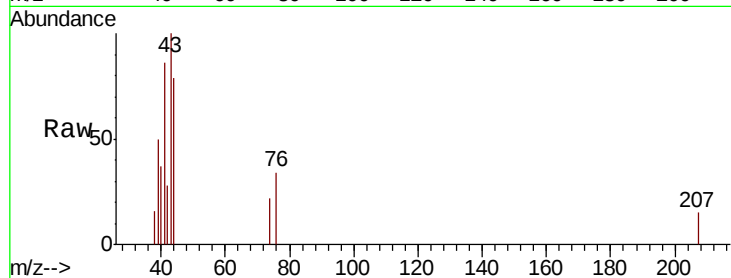




#18
Methyl Acetate
Concen: 0.676 ug/l
RT: 4.31 min Scan# 789
Delta R.T. 0.01 min
Lab File: VN058774.D
Acq: 15 Oct 2019 12:14

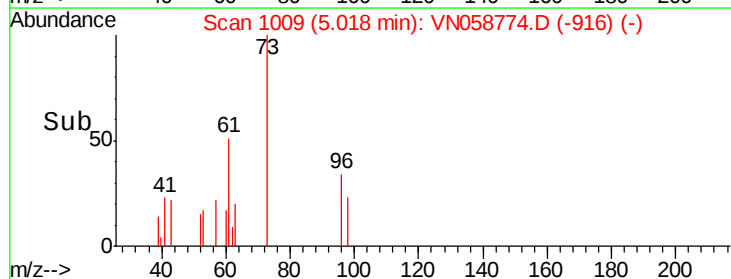
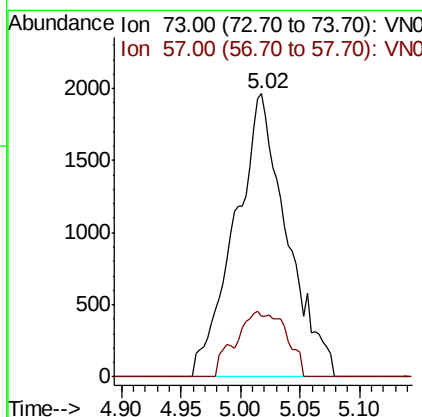
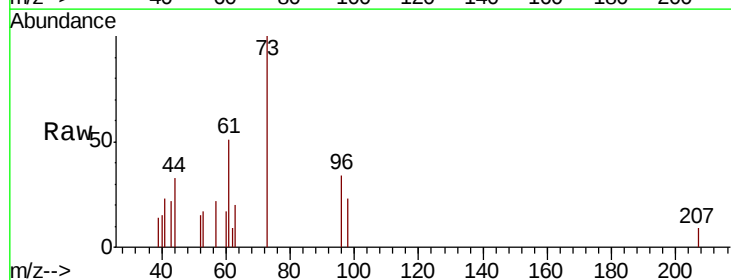
Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

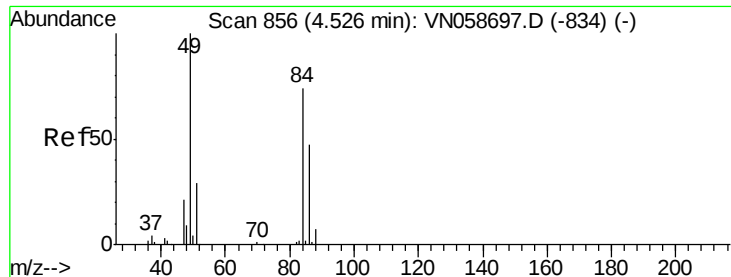
Tot Ion: 43 Resp: 3499
Ion Ratio Lower Upper
43 100
74 16.1 17.2 25.8#



#19
Methyl tert-butyl Ether
Concen: 0.491 ug/l
RT: 5.02 min Scan# 1009
Delta R.T. -0.00 min
Lab File: VN058774.D
Acq: 15 Oct 2019 12:14

Tgt Ion: 73 Resp: 5928
Ion Ratio Lower Upper
73 100
57 21.5 17.0 25.6





#20

Methylene Chloride

Concen: 0.665 ug/l

RT: 4.52 min Scan# 855

Delta R.T. -0.00 min

Lab File: VN058774.D

Acq: 15 Oct 2019 12:14

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019DL

Tot Ion: 84 Resp: 2834

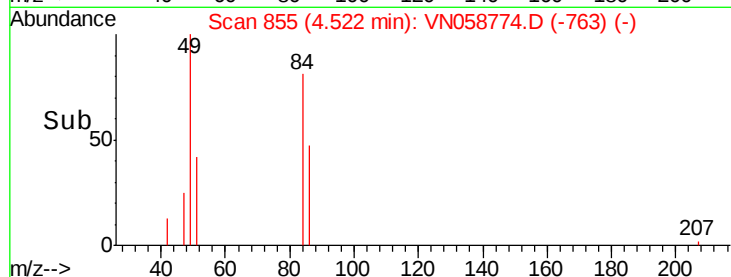
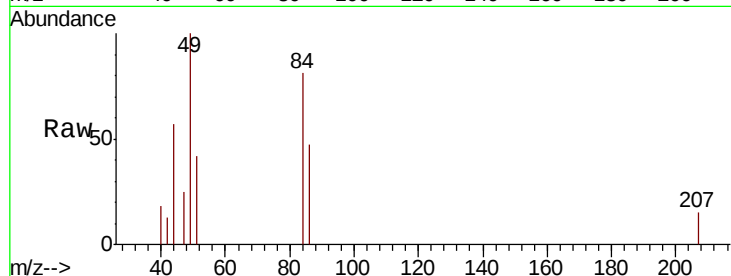
Ion Ratio Lower Upper

84 100

49 107.6 107.6 161.4#

51 51.5 31.4 47.0#

86 58.1 50.3 75.5

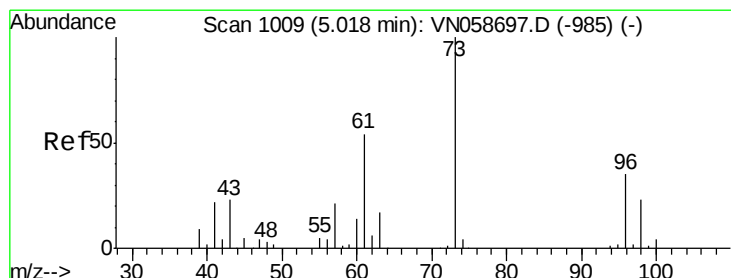
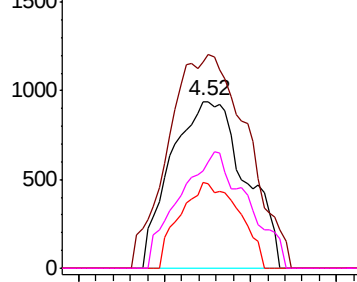


Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0



#21

trans-1,2-Dichloroethene

Concen: 0.415 ug/l

RT: 5.01 min Scan# 1006

Delta R.T. -0.01 min

Lab File: VN058774.D

Acq: 15 Oct 2019 12:14

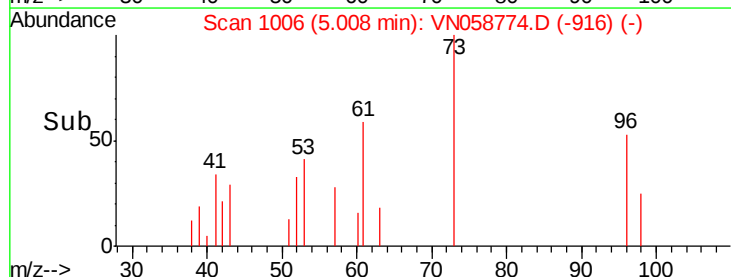
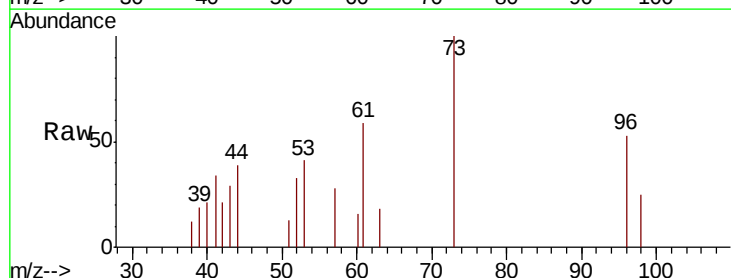
Tgt Ion: 96 Resp: 1570

Ion Ratio Lower Upper

96 100

61 87.9 123.6 185.4#

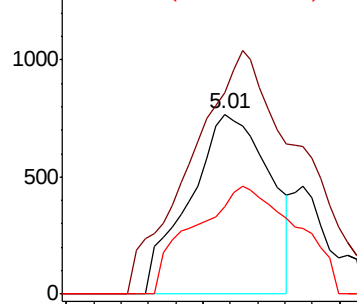
98 48.4 52.1 78.1#

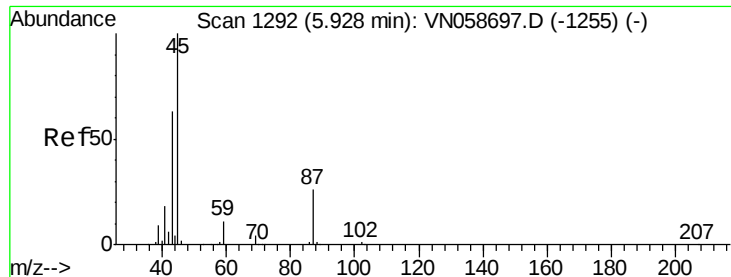


Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

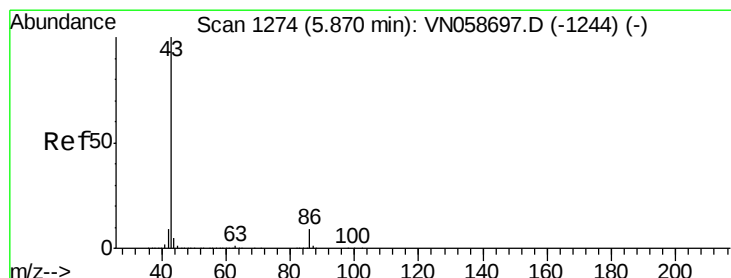
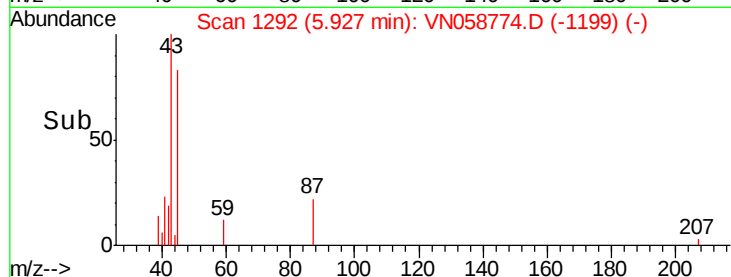
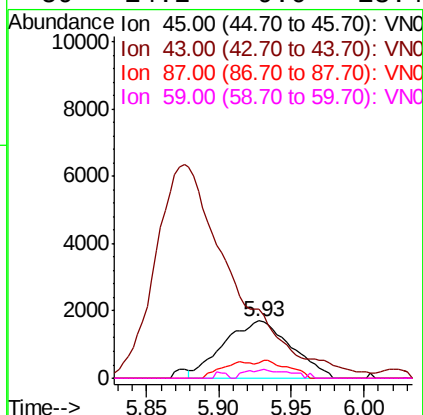
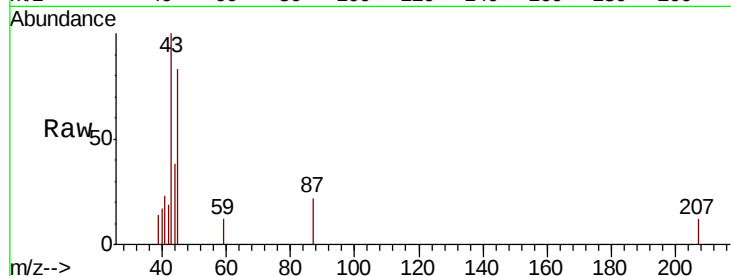




#22
Diisopropyl ether
Concen: 0.414 ug/l
RT: 5.93 min Scan# 1292
Delta R.T. -0.00 min
Lab File: VN058774.D
Acq: 15 Oct 2019 12:14

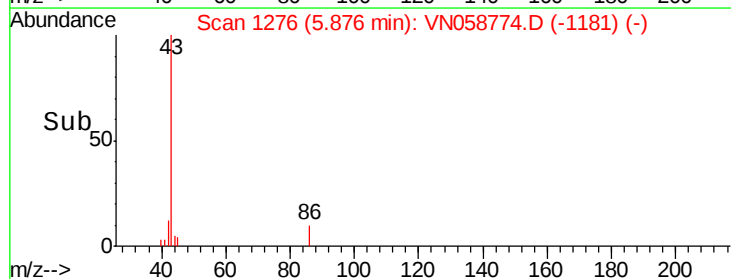
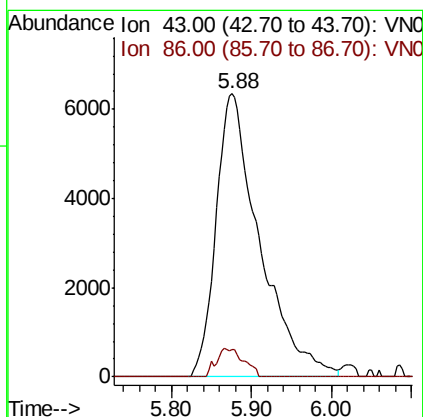
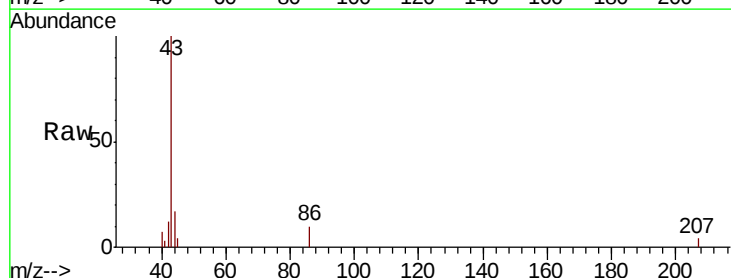
Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

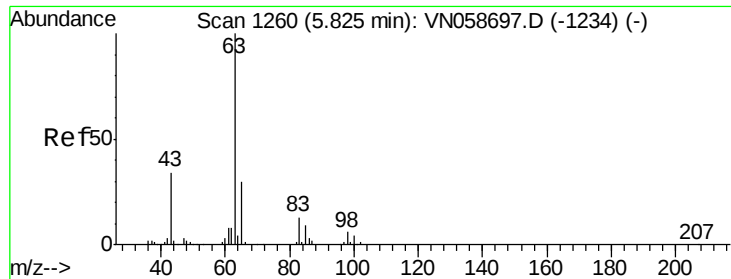
Tot Ion	Ratio	Lower	Upper
45	100		
43	101.0	50.6	75.8#
87	26.5	21.1	31.7
59	14.2	9.0	13.4#



#23
Vinyl Acetate
Concen: 2.229 ug/l
RT: 5.88 min Scan# 1276
Delta R.T. 0.01 min
Lab File: VN058774.D
Acq: 15 Oct 2019 12:14

Tgt Ion	Ratio	Lower	Upper
43	100		
86	9.6	7.4	11.0





#24

1,1-Dichloroethane

Concen: 0.273 ug/l

RT: 5.81 min Scan# 1257

Delta R.T. -0.01 min

Lab File: VN058774.D

Acq: 15 Oct 2019 12:14

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019DL

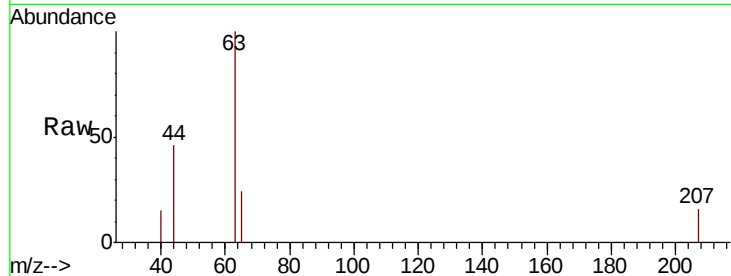
Tot Ion: 63 Resp: 2063

Ion Ratio Lower Upper

63 100

98 0.0 2.9 8.6#

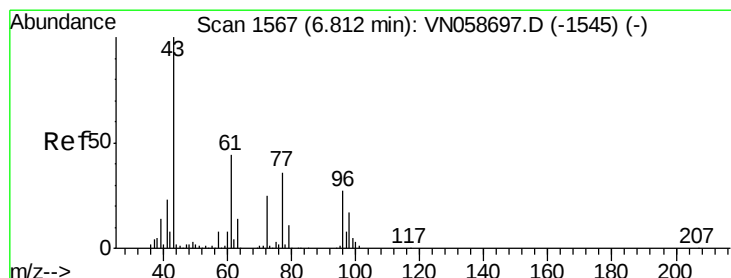
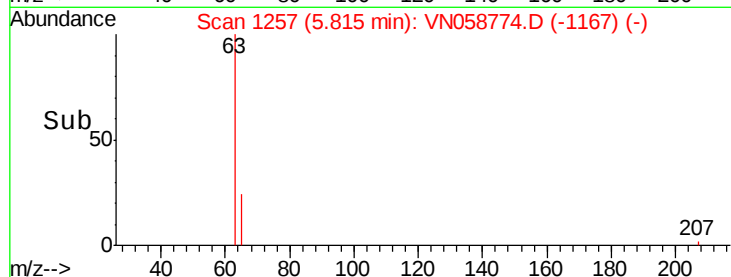
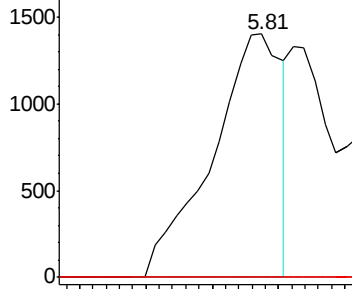
100 0.0 1.8 5.5#



Abundance Ion 62.90 (62.60 to 63.60): VN058697.D (-1234) (-)

Ion 97.90 (97.60 to 98.60): VN058697.D (-1234) (-)

Ion 99.90 (99.60 to 100.60): VN058697.D (-1234) (-)



#25

2-Butanone

Concen: 2.538 ug/l

RT: 6.82 min Scan# 1570

Delta R.T. 0.01 min

Lab File: VN058774.D

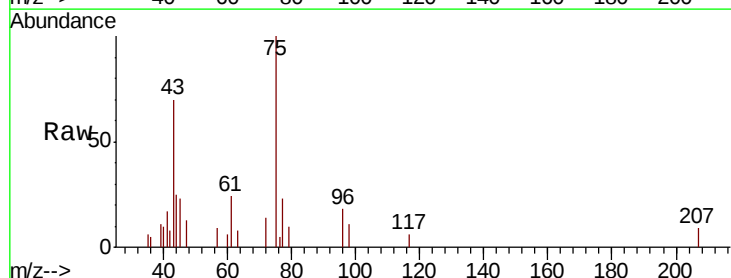
Acq: 15 Oct 2019 12:14

Tgt Ion: 43 Resp: 7480

Ion Ratio Lower Upper

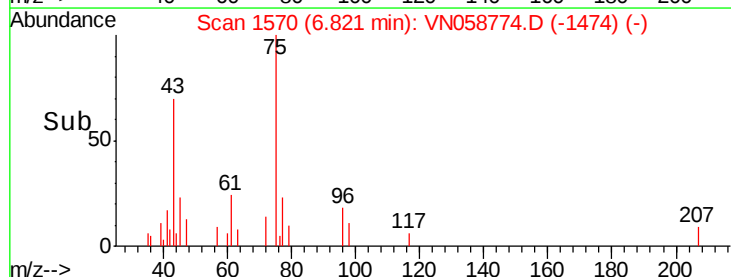
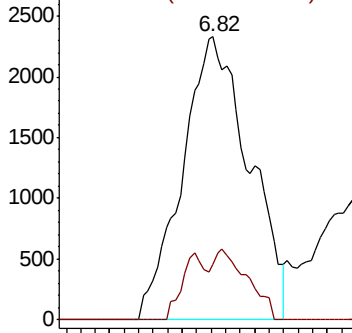
43 100

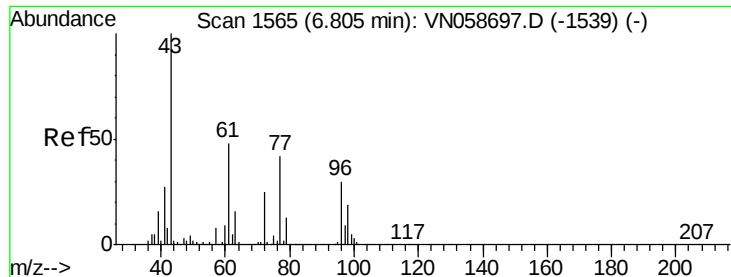
72 19.7 20.2 30.2#



Abundance Ion 43.00 (42.70 to 43.70): VN058697.D (-1545) (-)

Ion 72.00 (71.70 to 72.70): VN058697.D (-1545) (-)

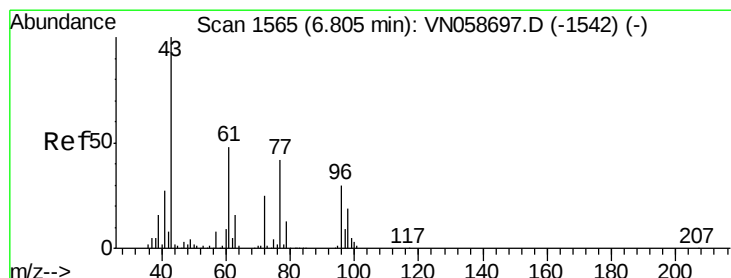
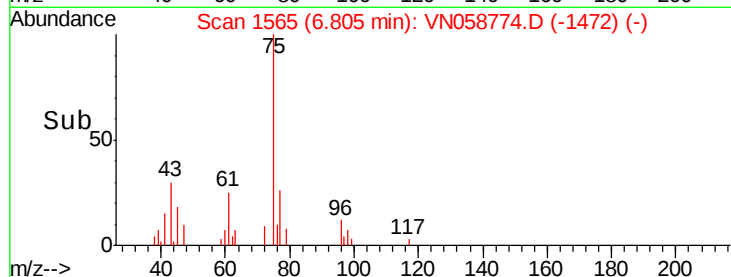
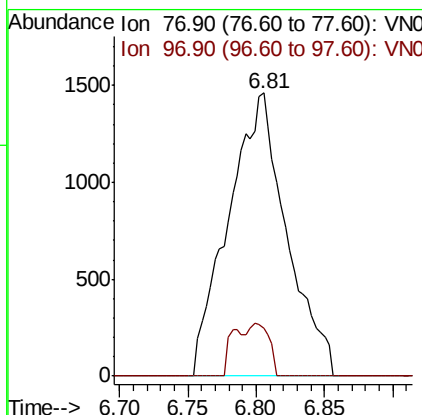
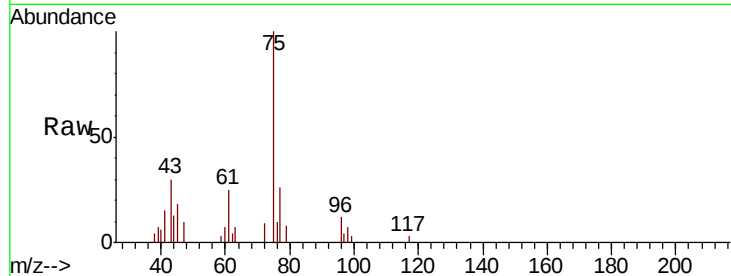




#26
 2,2-Dichloropropane
 Concen: 0.629 ug/l
 RT: 6.81 min Scan# 1565
 Delta R.T. -0.00 min
 Lab File: VN058774.D
 Acq: 15 Oct 2019 12:14

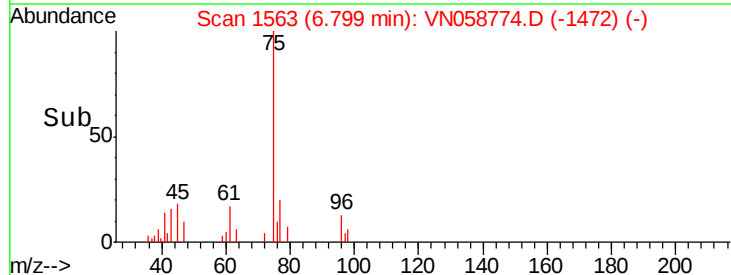
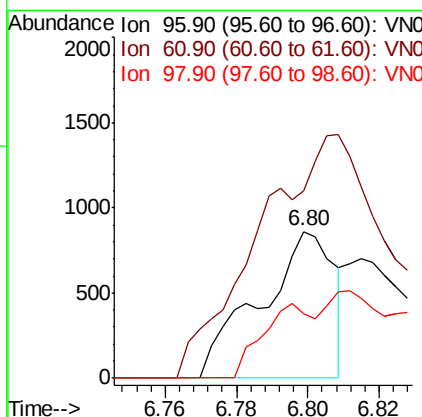
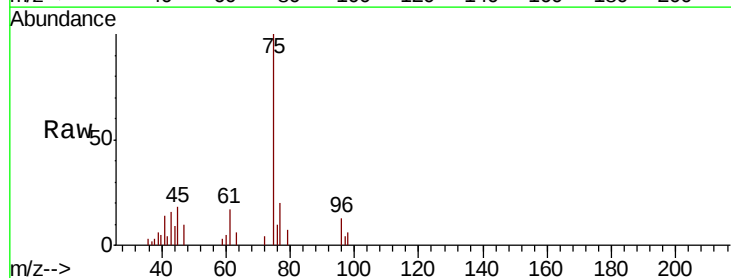
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019DL

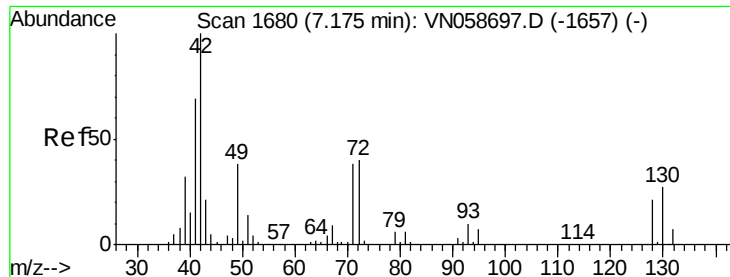
Tot Ion: 77 Resp: 4335
 Ion Ratio Lower Upper
 77 100
 97 6.3 10.7 31.9#



#27
 cis-1,2-Dichloroethene
 Concen: 0.281 ug/l
 RT: 6.80 min Scan# 1563
 Delta R.T. -0.01 min
 Lab File: VN058774.D
 Acq: 15 Oct 2019 12:14

Tgt Ion: 96 Resp: 1240
 Ion Ratio Lower Upper
 96 100
 61 0.0 0.0 324.8
 98 35.0 0.0 129.2

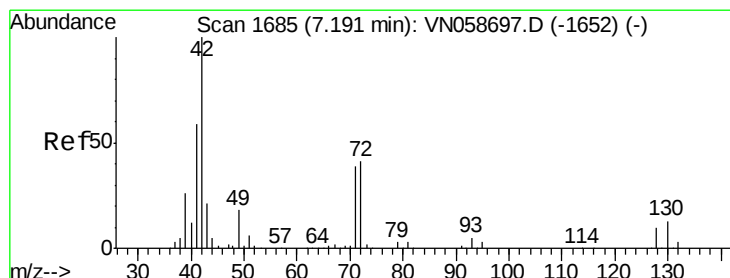
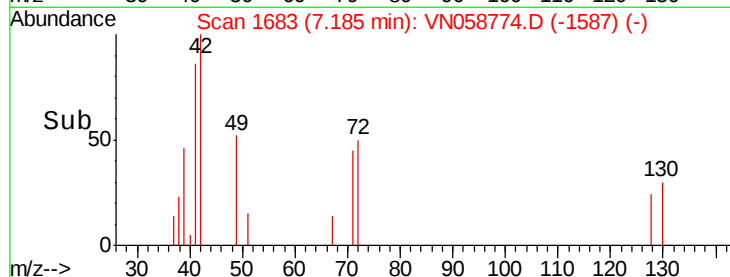
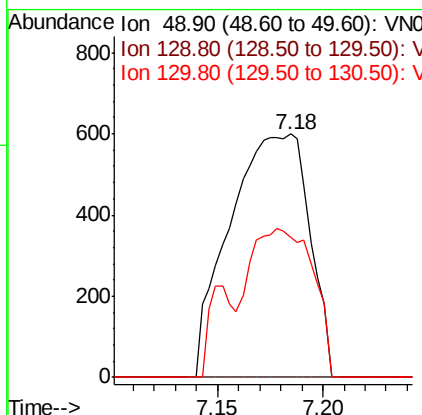
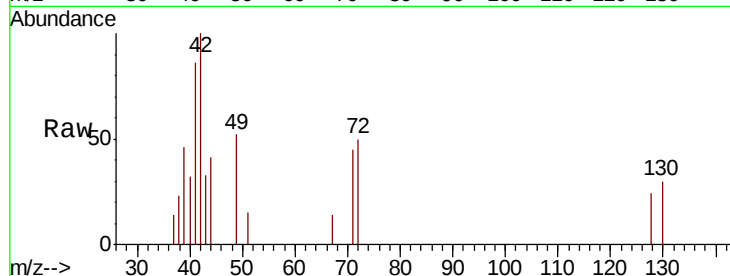




#28
Bromochloromethane
Concen: 0.597 ug/l
RT: 7.18 min Scan# 1683
Delta R.T. 0.01 min
Lab File: VN058774.D
Acq: 15 Oct 2019 12:14

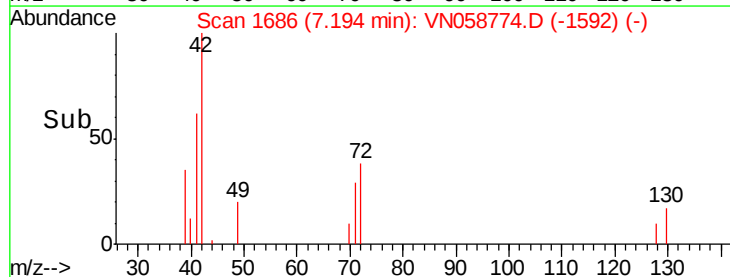
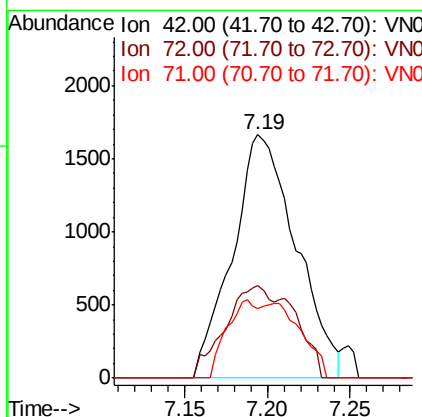
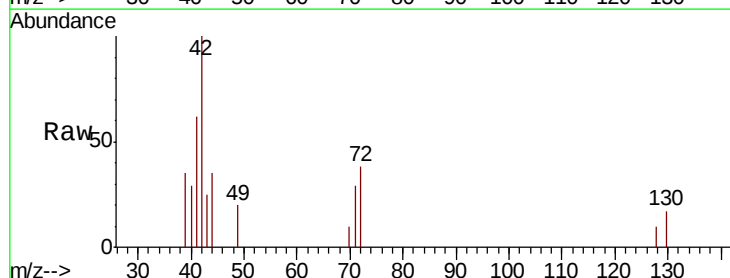
Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

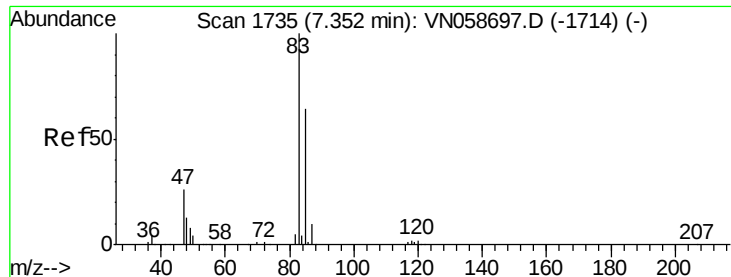
Tot Ion: 49 Resp: 1569
Ion Ratio Lower Upper
49 100
129 0.0 0.0 3.6
130 48.7 55.0 82.4#



#29
Tetrahydrofuran
Concen: 2.335 ug/l
RT: 7.19 min Scan# 1686
Delta R.T. 0.00 min
Lab File: VN058774.D
Acq: 15 Oct 2019 12:14

Tgt Ion: 42 Resp: 4448
Ion Ratio Lower Upper
42 100
72 27.8 32.8 49.2#
71 15.6 31.1 46.7#

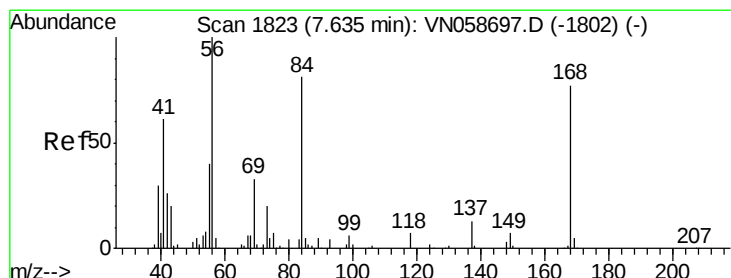
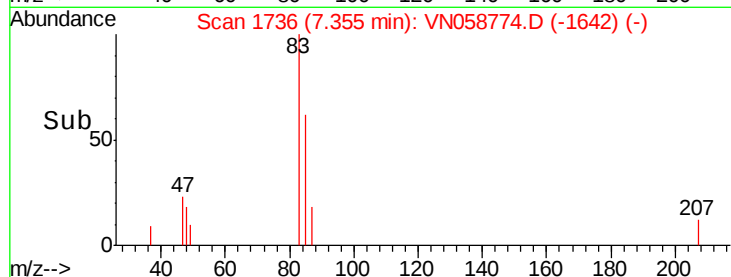
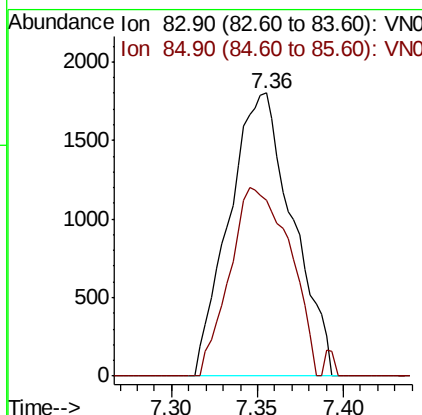
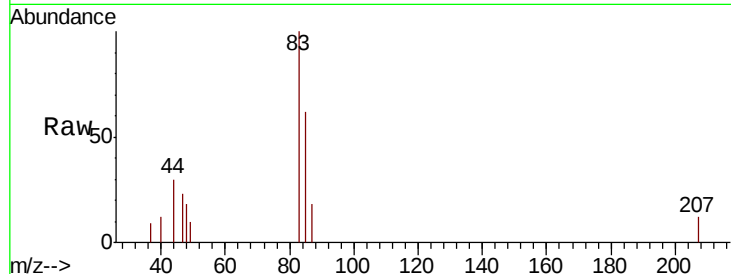




#30
Chloroform
Concen: 0.608 ug/l
RT: 7.36 min Scan# 1736
Delta R.T. 0.00 min
Lab File: VN058774.D
Acq: 15 Oct 2019 12:14

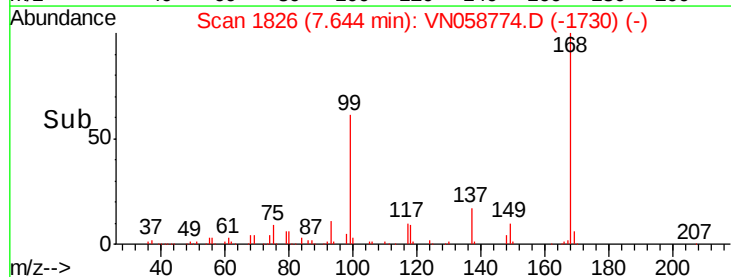
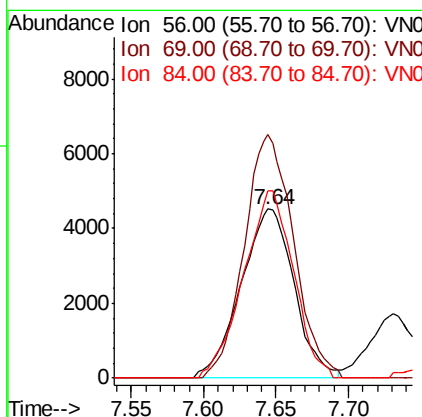
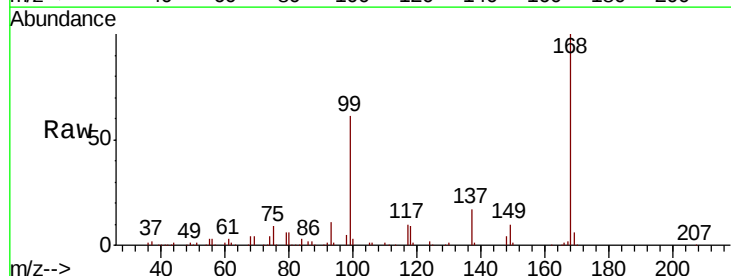
Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

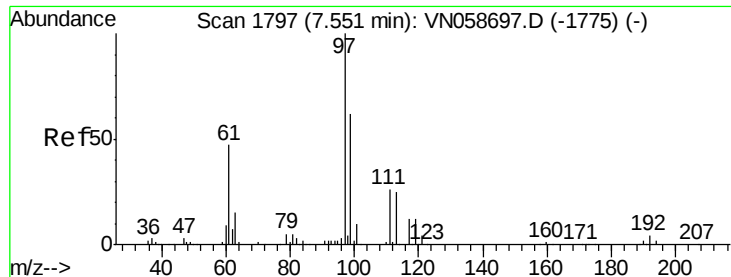
Tot Ion: 83 Resp: 4616
Ion Ratio Lower Upper
83 100
85 62.3 51.0 76.6



#31
Cyclohexane
Concen: 1.595 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. 0.01 min
Lab File: VN058774.D
Acq: 15 Oct 2019 12:14

Tgt Ion: 56 Resp: 11520
Ion Ratio Lower Upper
56 100
69 143.8 26.2 39.4#
84 111.0 64.9 97.3#





#32

1,1,1-Trichloroethane

Concen: 0.515 ug/l

RT: 7.56 min Scan# 1800

Delta R.T. 0.01 min

Lab File: VN058774.D

Acq: 15 Oct 2019 12:14

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019DL

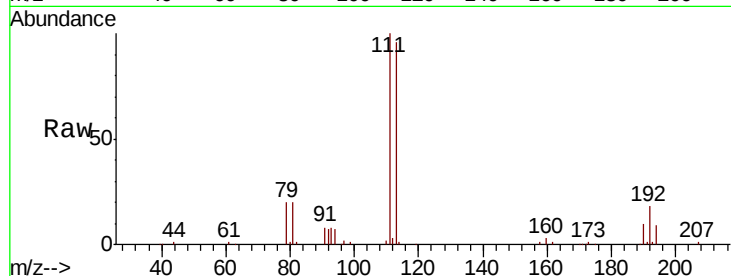
Tot Ion: 97 Resp: 3333

Ion Ratio Lower Upper

97 100

99 0.0 50.8 76.2#

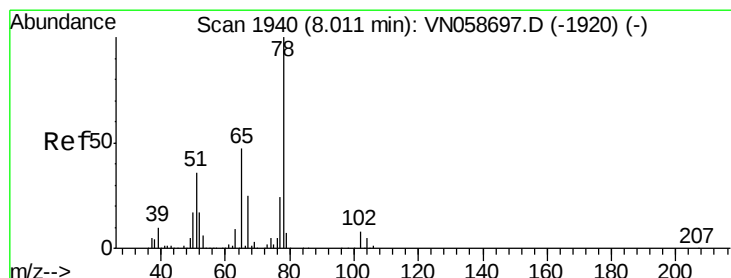
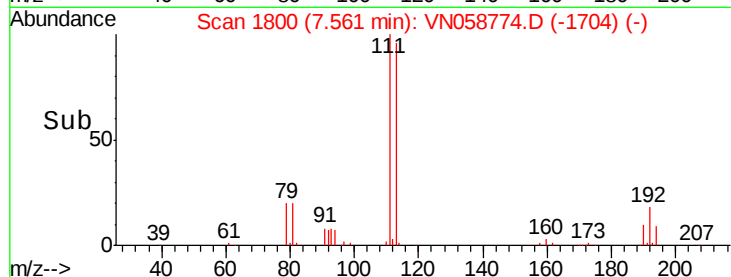
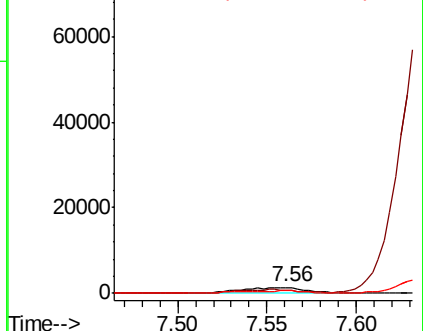
61 21.2 38.1 57.1#



Abundance Ion 96.90 (96.60 to 97.60): VN058697.D (-1775) (-)

Ion 98.90 (98.60 to 99.60): VN058697.D (-1775) (-)

Ion 60.90 (60.60 to 61.60): VN058697.D (-1775) (-)



#33

1,2-Dichloroethane-d4

Concen: 52.300 ug/l

RT: 8.01 min Scan# 1939

Delta R.T. -0.00 min

Lab File: VN058774.D

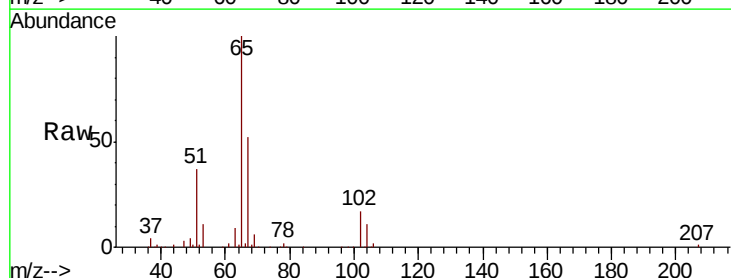
Acq: 15 Oct 2019 12:14

Tgt Ion: 65 Resp: 257611

Ion Ratio Lower Upper

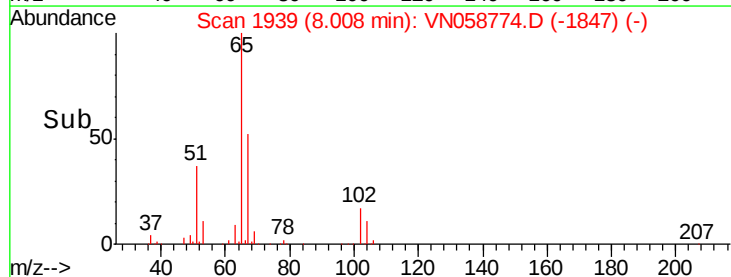
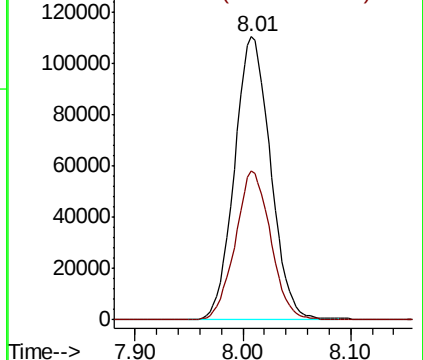
65 100

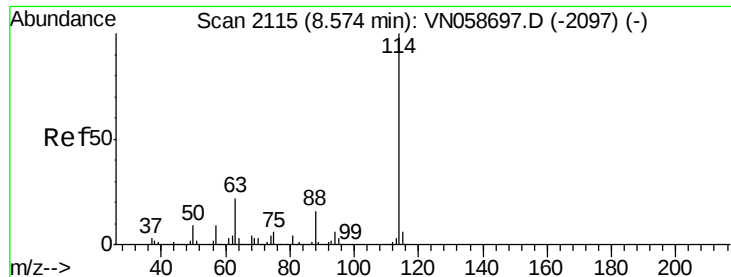
67 51.7 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VN058697.D (-1920) (-)

Ion 66.90 (66.60 to 67.60): VN058697.D (-1920) (-)

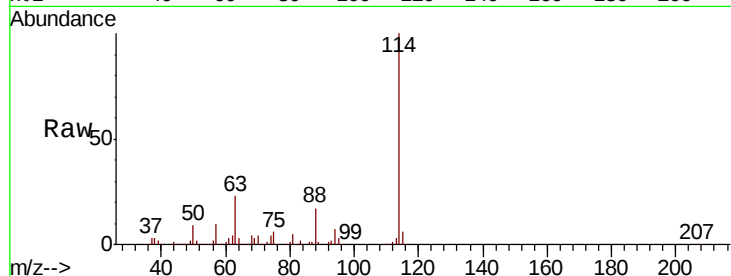




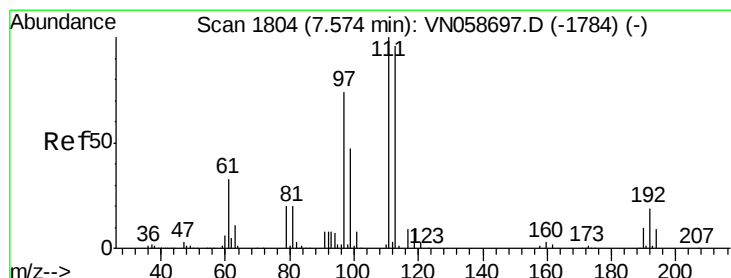
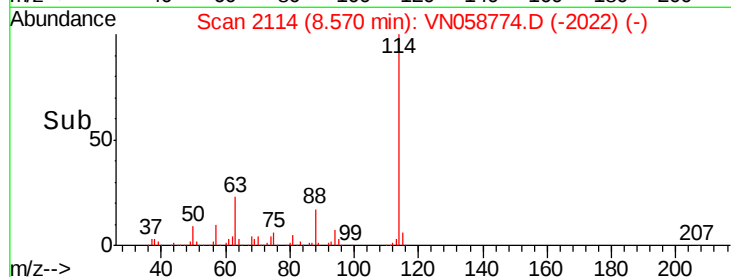
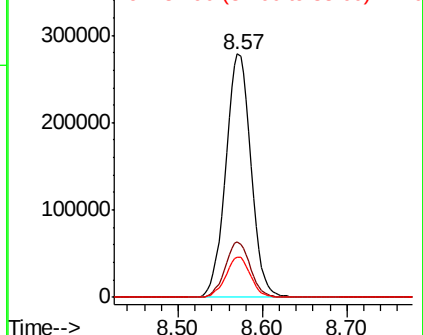
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2114
 Delta R.T. -0.00 min
 Lab File: VN058774.D
 Acq: 15 Oct 2019 12:14

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019DL

Tot Ion	Ratio	Lower	Upper
114	100		
63	22.6	0.0	43.8
88	16.6	0.0	32.0

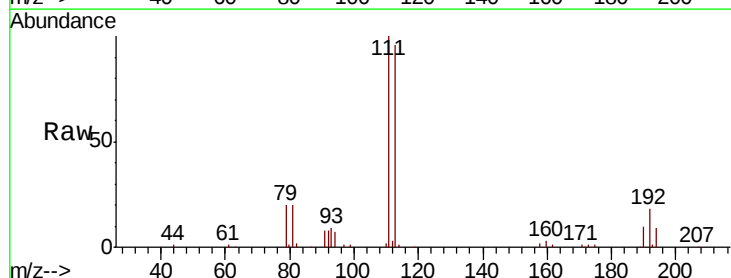


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

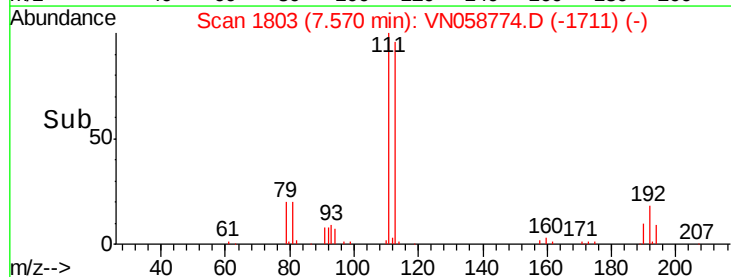
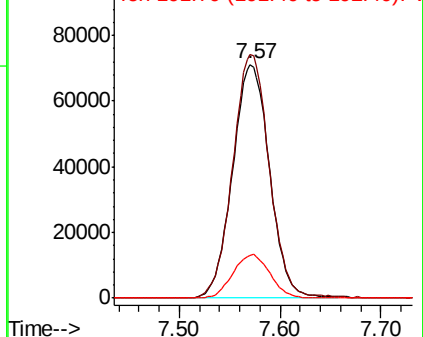


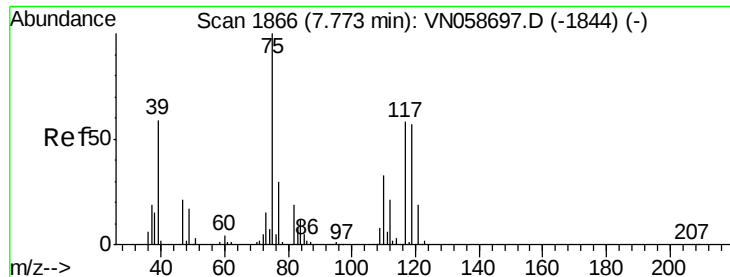
#35
 Dibromofluoromethane
 Concen: 50.661 ug/l
 RT: 7.57 min Scan# 1803
 Delta R.T. -0.00 min
 Lab File: VN058774.D
 Acq: 15 Oct 2019 12:14

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.1	82.3	123.5
192	18.6	15.0	22.6



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 0.488 ug/l

RT: 7.77 min Scan# 1866

Delta R.T. -0.00 min

Lab File: VN058774.D

Acq: 15 Oct 2019 12:14

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019DL

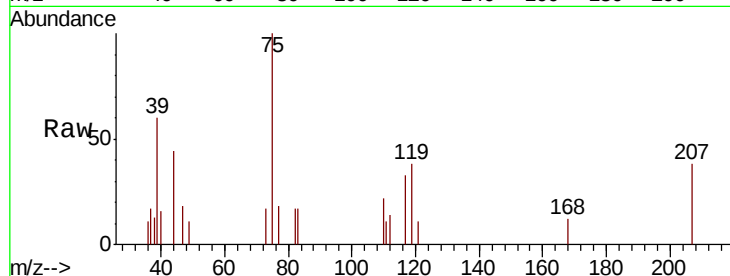
Tot Ion: 75 Resp: 2855

Ion Ratio Lower Upper

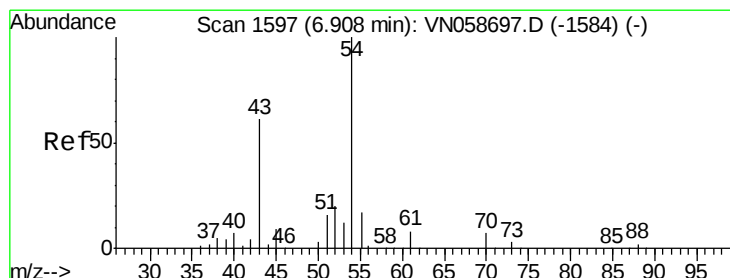
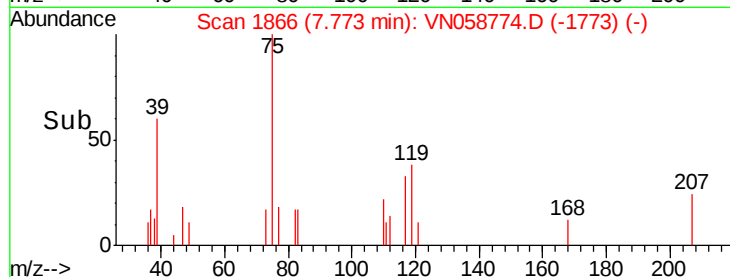
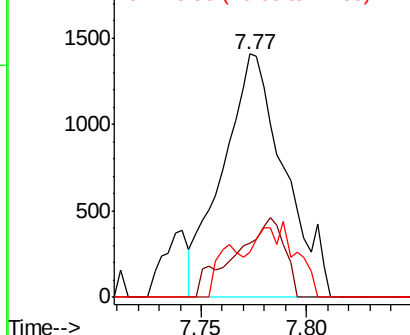
75 100

110 26.2 16.6 49.8

77 20.5 24.6 37.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO
Ion 109.90 (109.60 to 110.60): VNO
Ion 76.90 (76.60 to 77.60): VNO



#37

Ethyl Acetate

Concen: 0.429 ug/l

RT: 6.92 min Scan# 1602

Delta R.T. 0.02 min

Lab File: VN058774.D

Acq: 15 Oct 2019 12:14

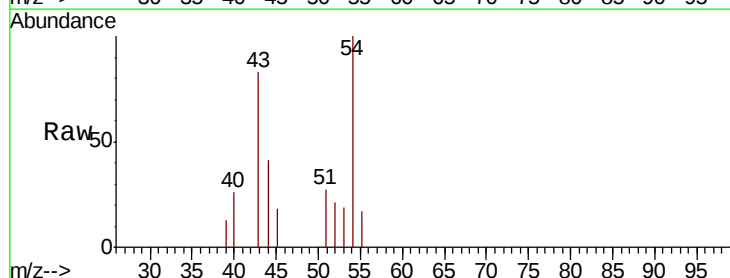
Tgt Ion: 43 Resp: 2535

Ion Ratio Lower Upper

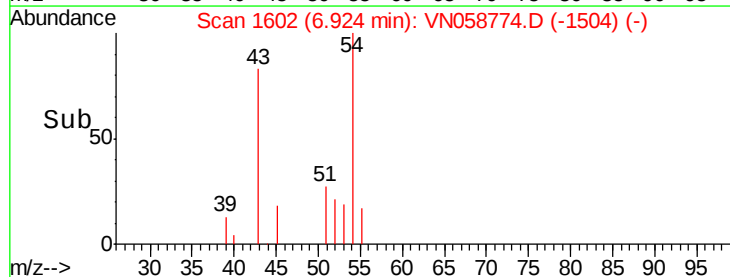
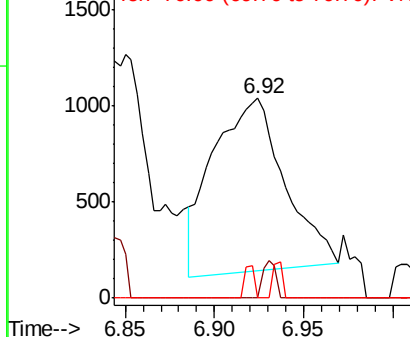
43 100

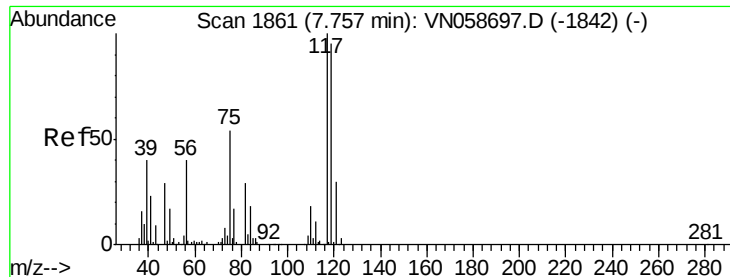
61 0.0 11.3 16.9#

70 2.5 7.2 10.8#



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 60.90 (60.60 to 61.60): VNO
Ion 70.00 (69.70 to 70.70): VNO





#38

Carbon Tetrachloride

Concen: 6.229 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.11 min

Lab File: VN058774.D

Acq: 15 Oct 2019 12:14

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019DL

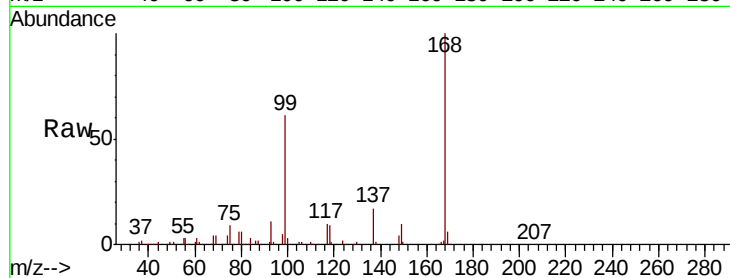
Tot Ion:117 Resp: 35487

Ion Ratio Lower Upper

117 100

119 5.2 75.7 113.5#

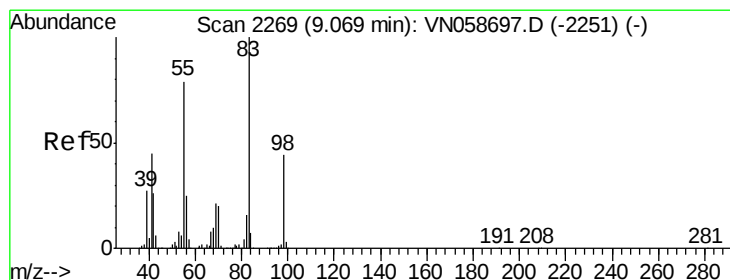
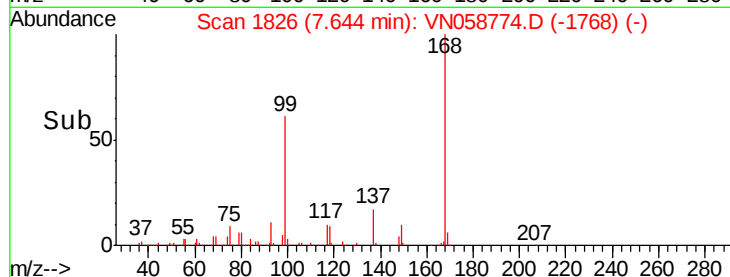
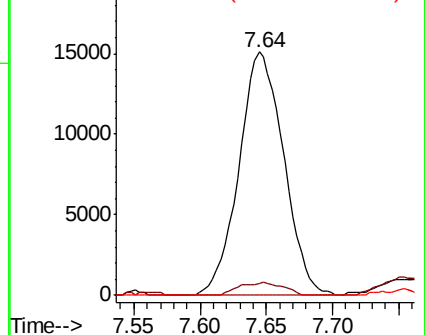
121 0.0 23.9 35.9#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#39

Methylcyclohexane

Concen: 0.405 ug/l

RT: 9.07 min Scan# 2268

Delta R.T. -0.00 min

Lab File: VN058774.D

Acq: 15 Oct 2019 12:14

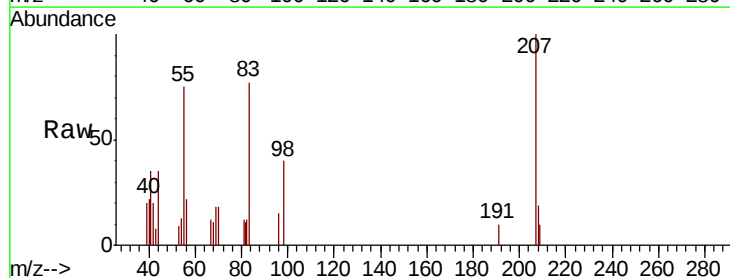
Tgt Ion: 83 Resp: 2744

Ion Ratio Lower Upper

83 100

55 97.7 63.4 95.0#

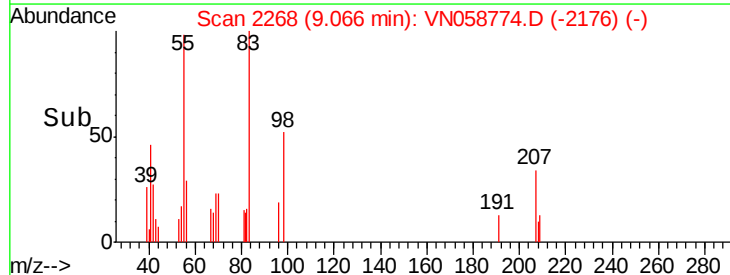
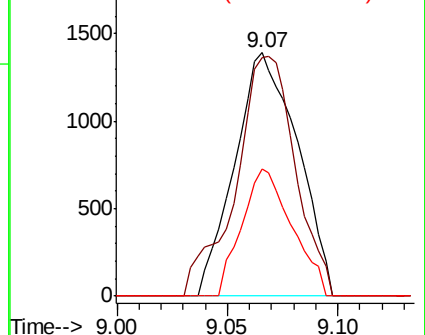
98 52.2 35.1 52.7

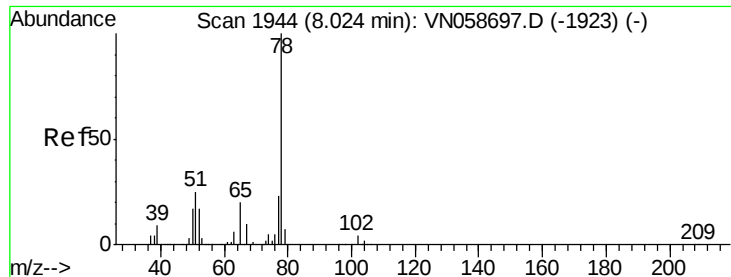


Abundance Ion 83.00 (82.70 to 83.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 98.00 (97.70 to 98.70): VNO

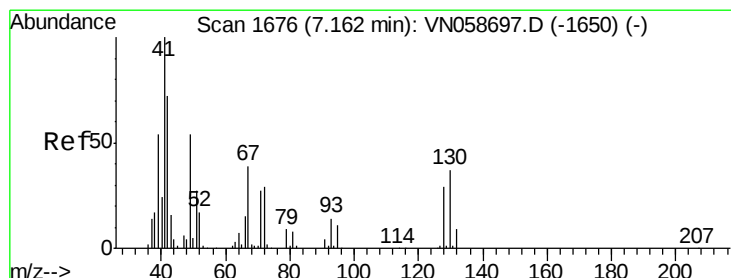
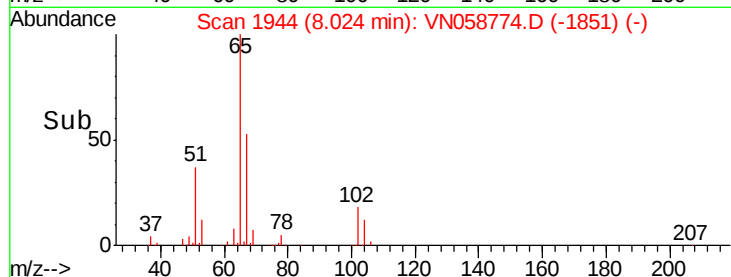
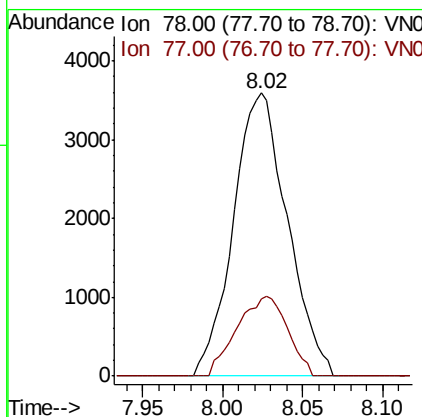
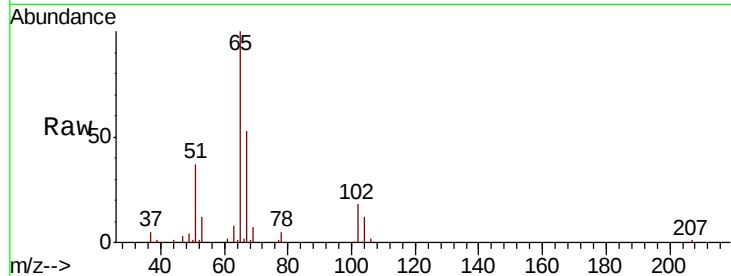




#40
Benzene
Concen: 0.495 ug/l
RT: 8.02 min Scan# 1944
Delta R.T. -0.00 min
Lab File: VN058774.D
Acq: 15 Oct 2019 12:14

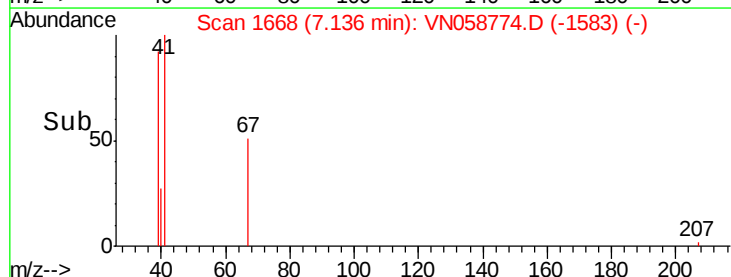
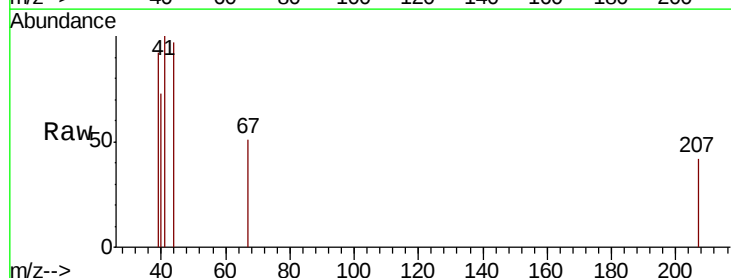
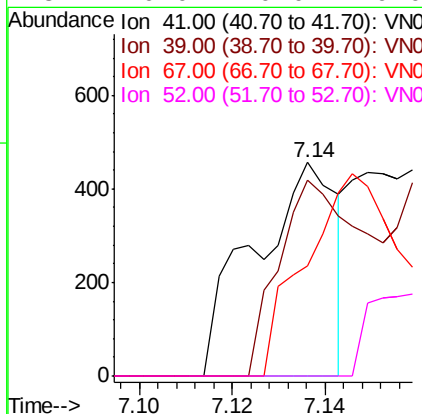
Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

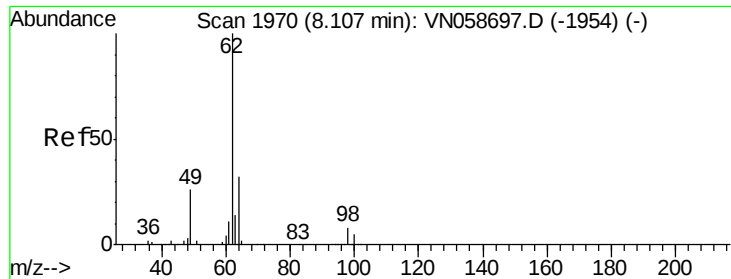
Tot Ion: 78 Resp: 8309
Ion Ratio Lower Upper
78 100
77 27.1 18.8 28.2



#41
Methacrylonitrile
Concen: 0.205 ug/l
RT: 7.14 min Scan# 1668
Delta R.T. -0.03 min
Lab File: VN058774.D
Acq: 15 Oct 2019 12:14

Tgt Ion: 41 Resp: 566
Ion Ratio Lower Upper
41 100
39 96.1 115.4 173.2#
67 110.4 0.0 0.0#
52 0.0 0.0 0.0

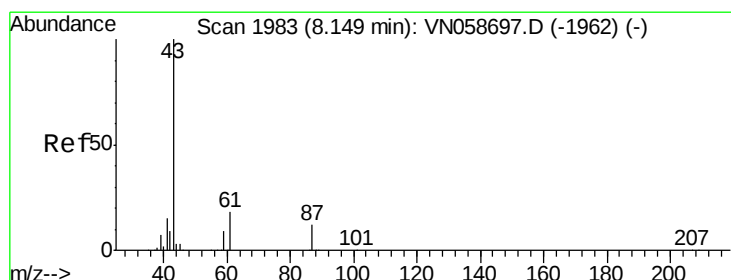
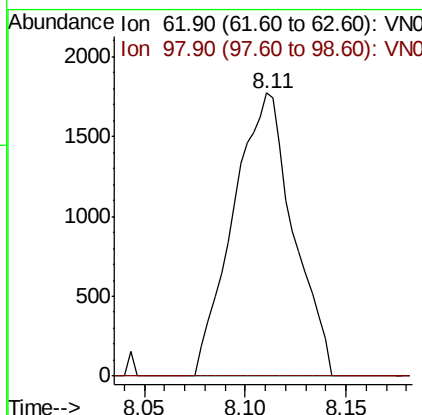
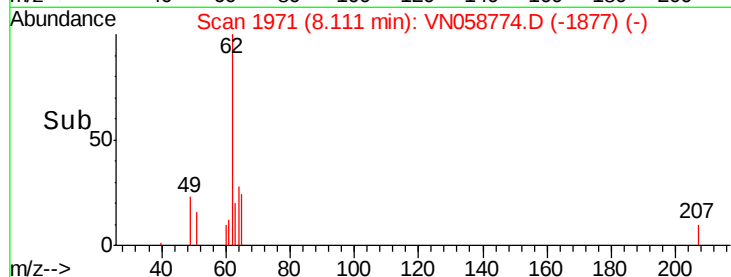
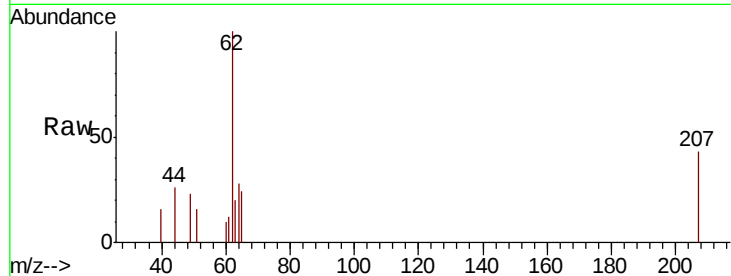




#42
 1,2-Dichloroethane
 Concen: 0.570 ug/l
 RT: 8.11 min Scan# 1971
 Delta R.T. 0.00 min
 Lab File: VN058774.D
 Acq: 15 Oct 2019 12:14

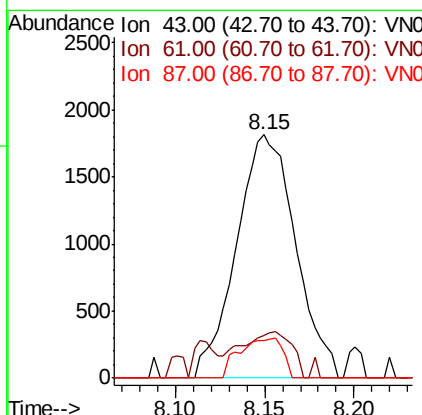
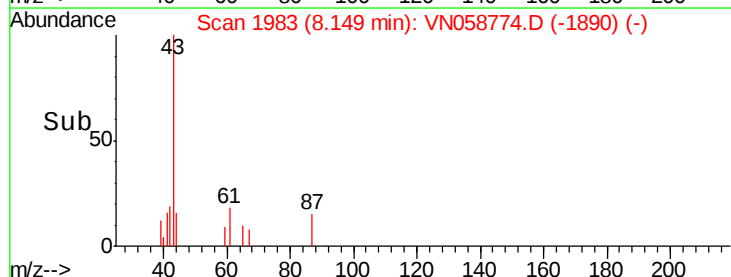
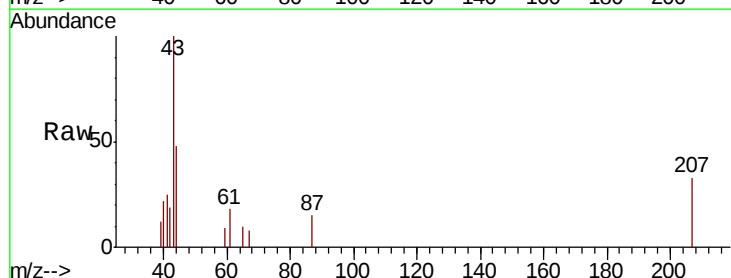
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019DL

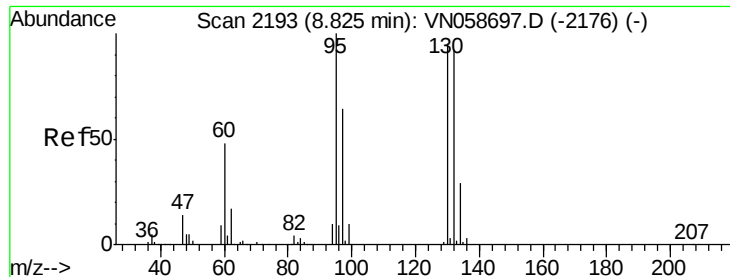
Tot Ion: 62 Resp: 3677
 Ion Ratio Lower Upper
 62 100
 98 0.0 0.0 15.8



#43
 Isopropyl Acetate
 Concen: 0.417 ug/l
 RT: 8.15 min Scan# 1983
 Delta R.T. -0.00 min
 Lab File: VN058774.D
 Acq: 15 Oct 2019 12:14

Tgt Ion: 43 Resp: 4200
 Ion Ratio Lower Upper
 43 100
 61 16.3 20.3 30.5#
 87 12.0 9.8 14.6





#44

Trichloroethene

Concen: 0.565 ug/l

RT: 8.82 min Scan# 2193

Delta R.T. -0.00 min

Lab File: VN058774.D

Acq: 15 Oct 2019 12:14

Instrument :

MSVOA_N

ClientSampleId :

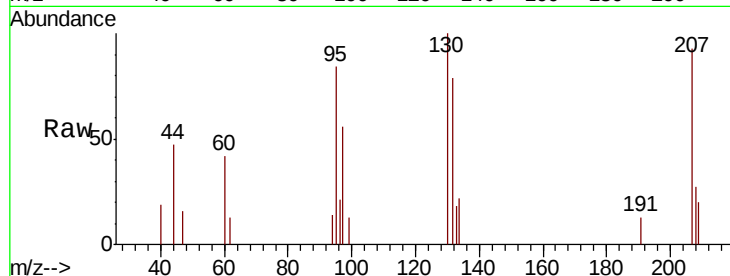
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion:130 Resp: 2356

Ion Ratio Lower Upper

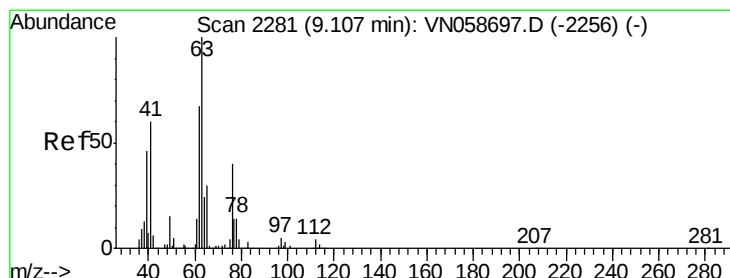
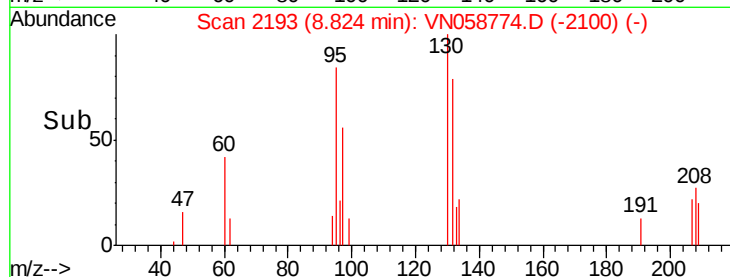
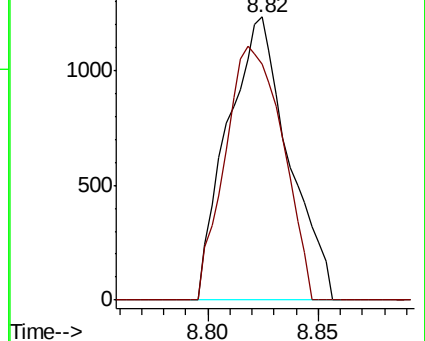
130 100

95 83.5 0.0 211.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VNO



#45

1,2-Dichloropropane

Concen: 0.492 ug/l

RT: 9.11 min Scan# 2282

Delta R.T. 0.00 min

Lab File: VN058774.D

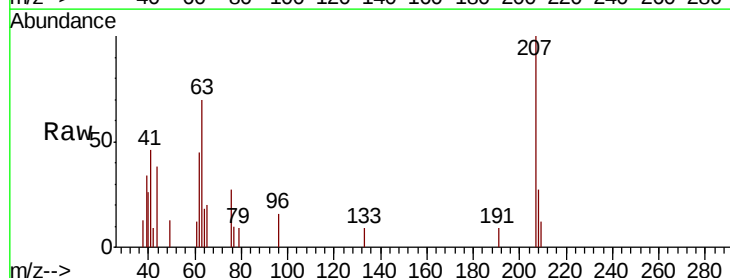
Acq: 15 Oct 2019 12:14

Tgt Ion: 63 Resp: 2212

Ion Ratio Lower Upper

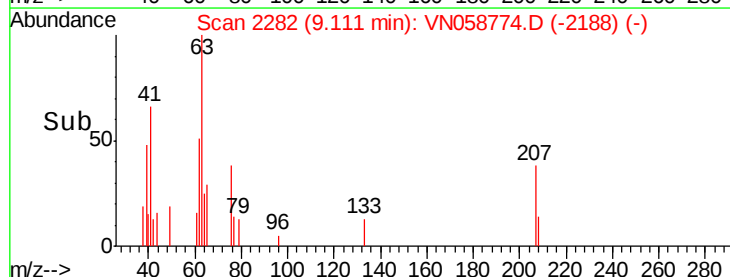
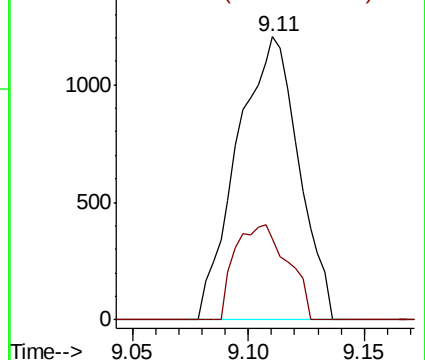
63 100

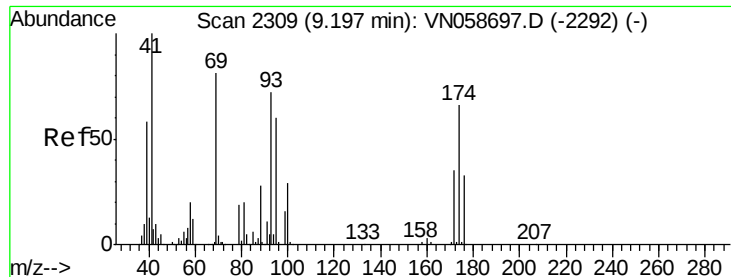
65 28.7 24.1 36.1



Abundance Ion 62.90 (62.60 to 63.60): VNO

Ion 64.90 (64.60 to 65.60): VNO

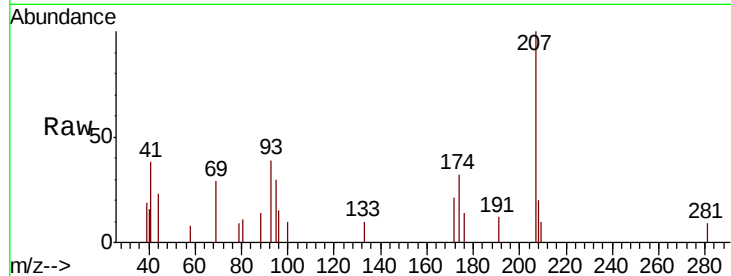




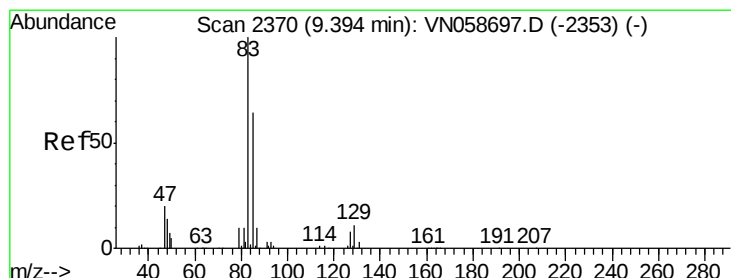
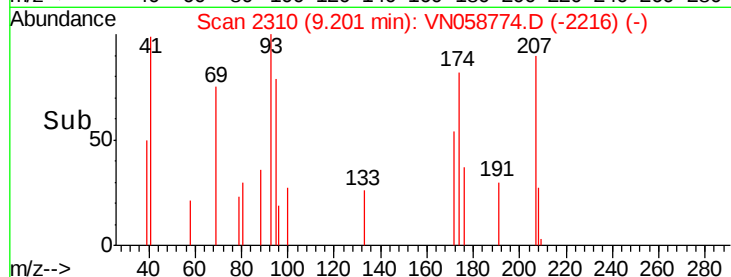
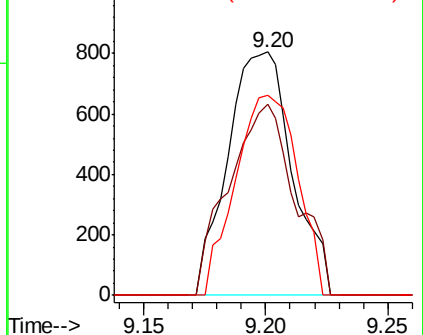
#46
Dibromomethane
Concen: 0.519 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN058774.D
Acq: 15 Oct 2019 12:14

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion: 93 Resp: 1480
Ion Ratio Lower Upper
93 100
95 81.0 66.6 100.0
174 79.2 75.2 112.8

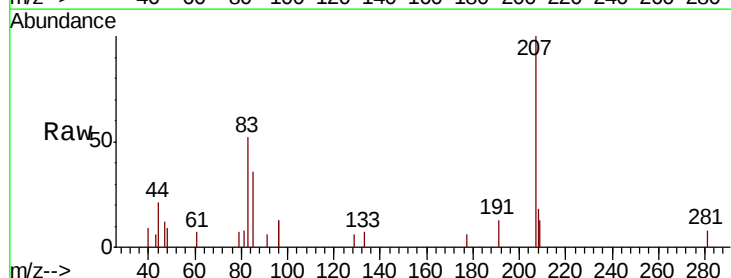


Abundance Ion 92.80 (92.50 to 93.50): VNO
Ion 94.80 (94.50 to 95.50): VNO
Ion 173.70 (173.40 to 174.40): V

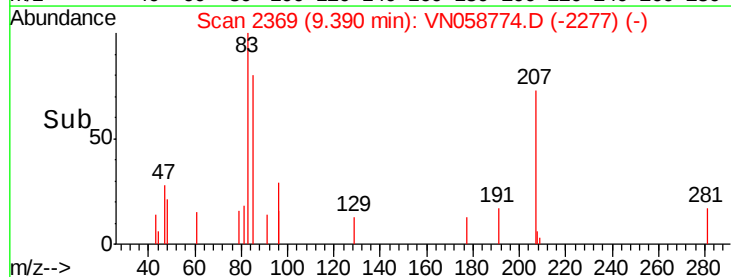
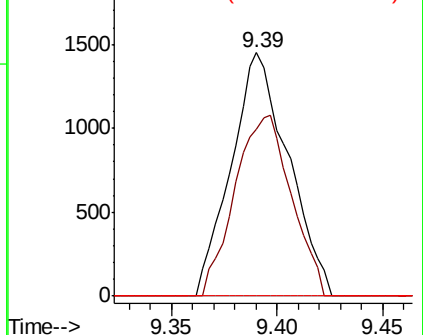


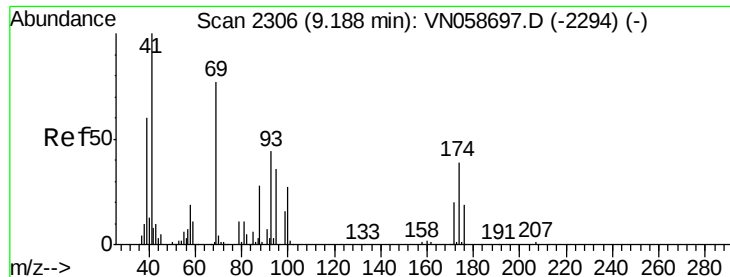
#47
Bromodichloromethane
Concen: 0.469 ug/l
RT: 9.39 min Scan# 2369
Delta R.T. -0.00 min
Lab File: VN058774.D
Acq: 15 Oct 2019 12:14

Tgt Ion: 83 Resp: 2719
Ion Ratio Lower Upper
83 100
85 68.5 50.9 76.3
127 0.0 6.3 9.5#



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

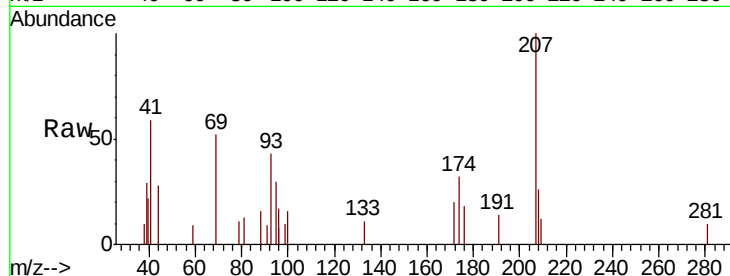




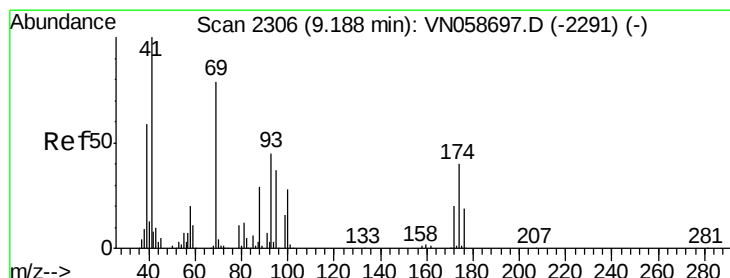
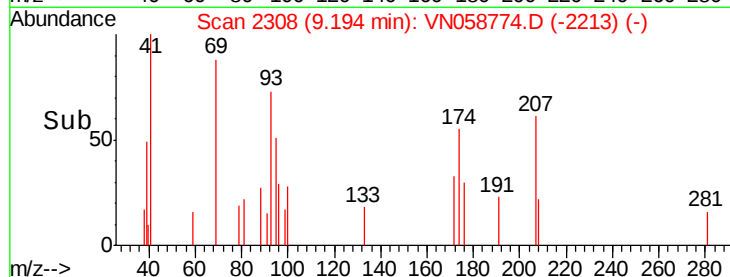
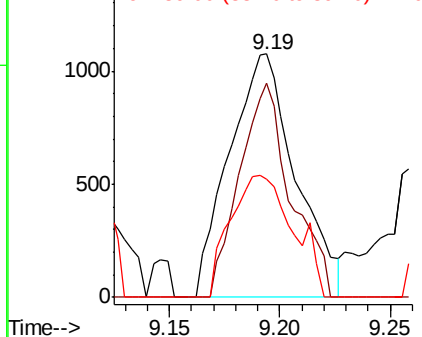
#48
Methvl methacrylate
Concen: 0.493 ug/l
RT: 9.19 min Scan# 2308
Delta R.T. 0.01 min
Lab File: VN058774.D
Acq: 15 Oct 2019 12:14

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion: 41 Resp: 2249
Ion Ratio Lower Upper
41 100
69 68.2 63.4 95.2
39 47.4 48.9 73.3#

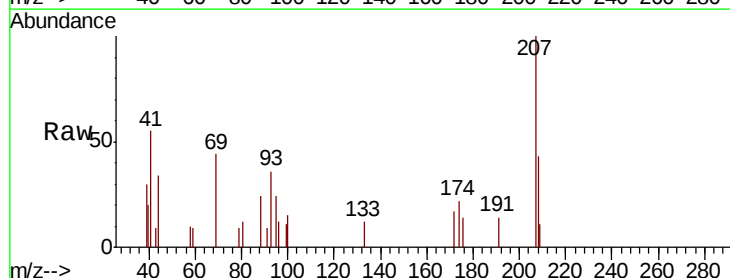


Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 39.00 (38.70 to 39.70): VNC

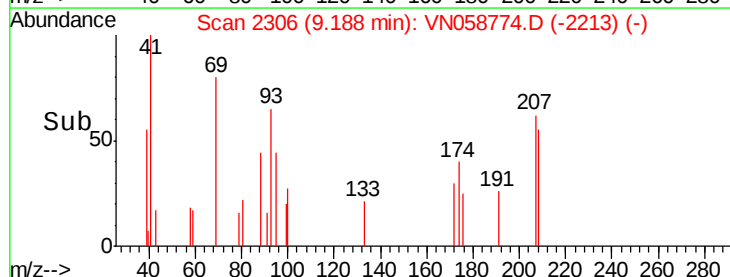
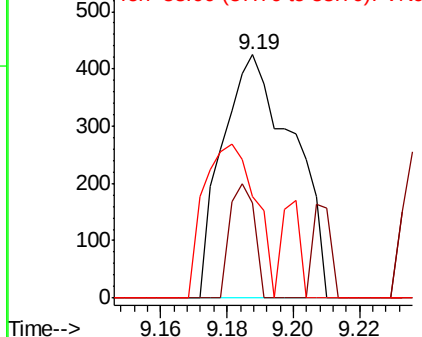


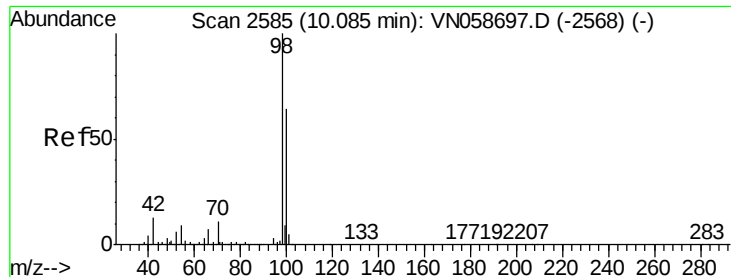
#49
1,4-Dioxane
Concen: 8.921 ug/l
RT: 9.19 min Scan# 2306
Delta R.T. -0.00 min
Lab File: VN058774.D
Acq: 15 Oct 2019 12:14

Tgt Ion: 88 Resp: 630
Ion Ratio Lower Upper
88 100
43 0.0 28.6 43.0#
58 45.7 57.2 85.8#



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





#50

Toluene-d8

Concen: 46.561 ug/l

RT: 10.08 min Scan# 2584

Delta R.T. -0.00 min

Lab File: VN058774.D

Acq: 15 Oct 2019 12:14

Instrument :

MSVOA_N

ClientSampleId :

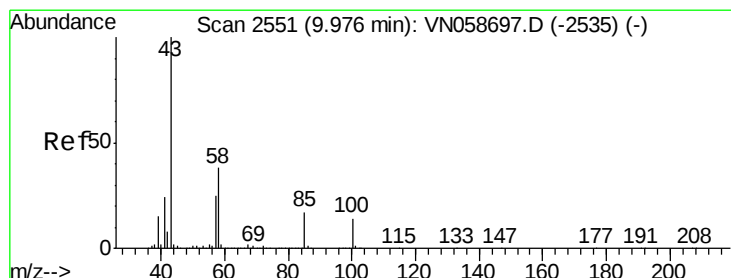
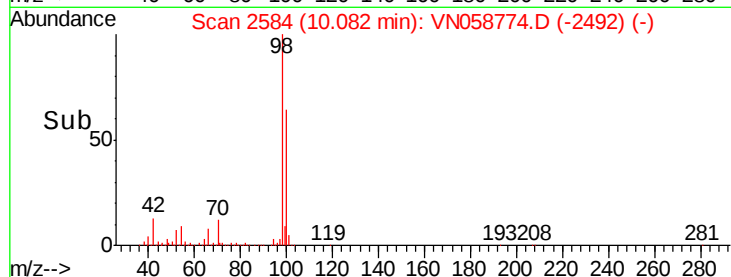
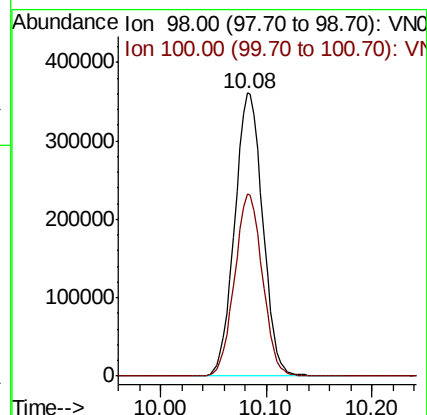
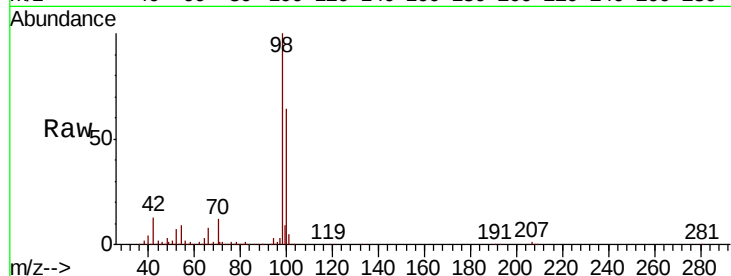
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion: 98 Resp: 664889

Ion Ratio Lower Upper

98 100

100 63.8 51.1 76.7



#51

4-Methyl-2-Pentanone

Concen: 2.286 ug/l

RT: 9.98 min Scan# 2551

Delta R.T. -0.00 min

Lab File: VN058774.D

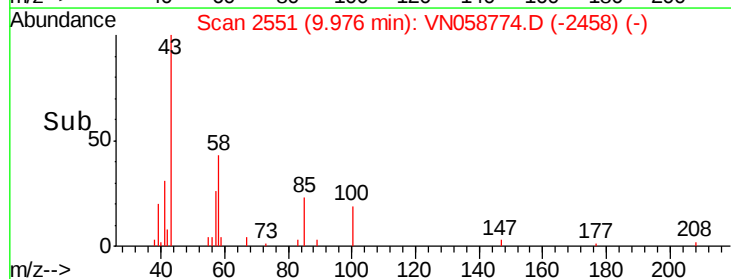
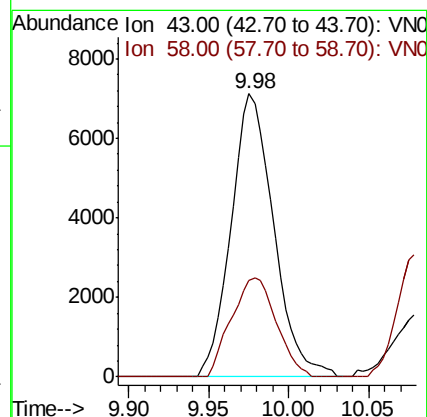
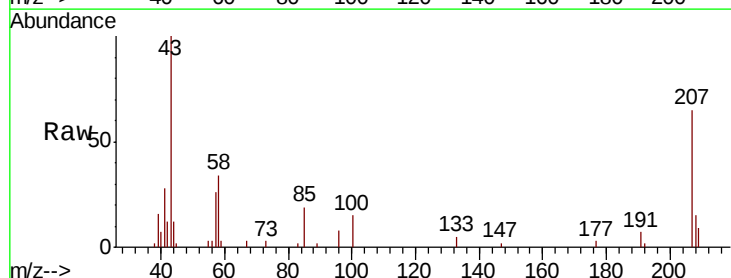
Acq: 15 Oct 2019 12:14

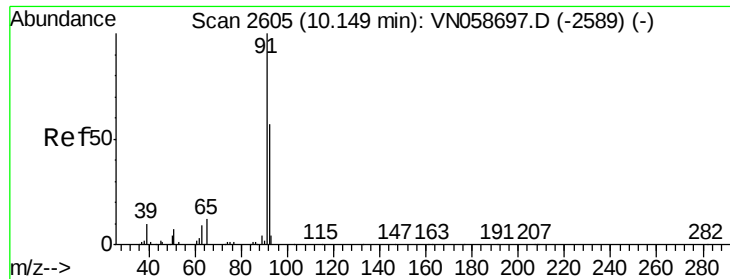
Tgt Ion: 43 Resp: 12930

Ion Ratio Lower Upper

43 100

58 36.8 30.3 45.5





#52

Toluene

Concen: 0.523 ug/l

RT: 10.15 min Scan# 2604

Delta R.T. -0.00 min

Lab File: VN058774.D

Acq: 15 Oct 2019 12:14

Instrument :

MSVOA_N

ClientSampleId :

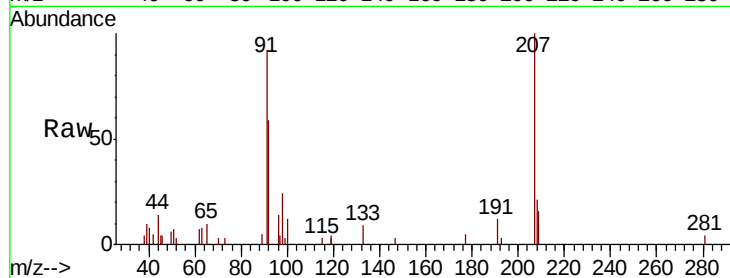
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion: 92 Resp: 5370

Ion Ratio Lower Upper

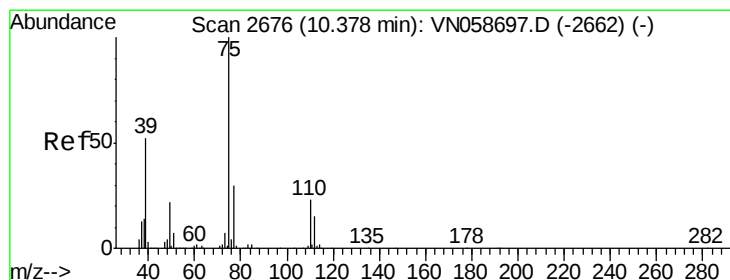
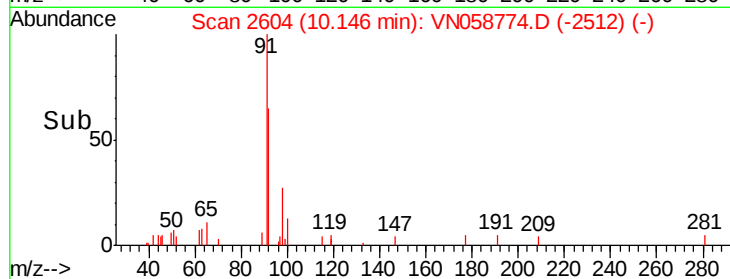
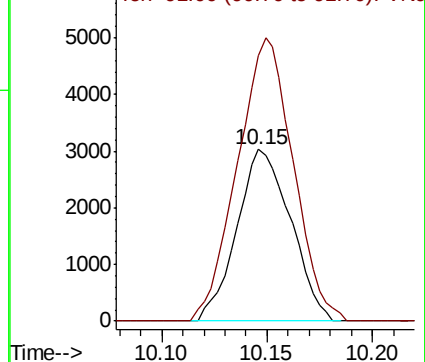
92 100

91 170.9 139.1 208.7



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: 0.669 ug/l

RT: 10.38 min Scan# 2676

Delta R.T. -0.00 min

Lab File: VN058774.D

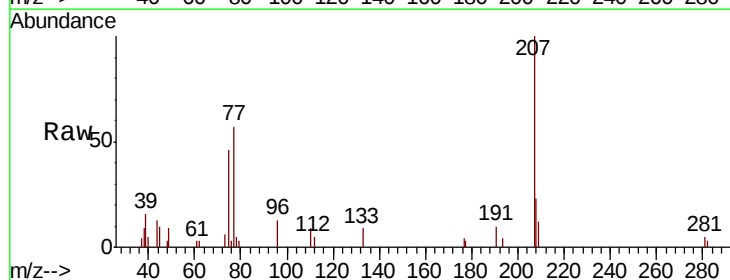
Acq: 15 Oct 2019 12:14

Tgt Ion: 75 Resp: 4450

Ion Ratio Lower Upper

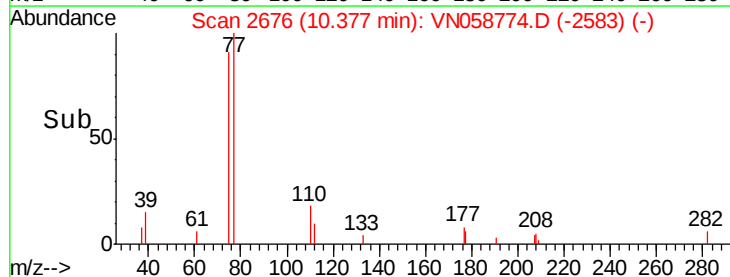
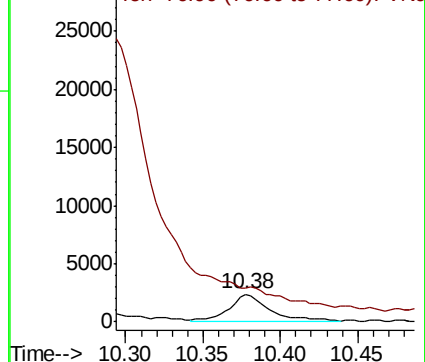
75 100

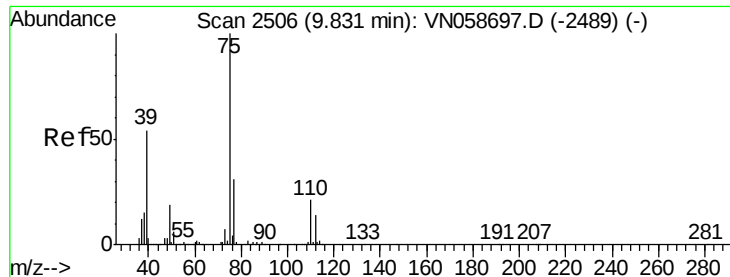
77 66.8 26.2 39.4#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0





#54

cis-1,3-Dichloropropene

Concen: 0.498 ug/l

RT: 9.83 min Scan# 2506

Delta R.T. -0.00 min

Lab File: VN058774.D

Acq: 15 Oct 2019 12:14

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019DL

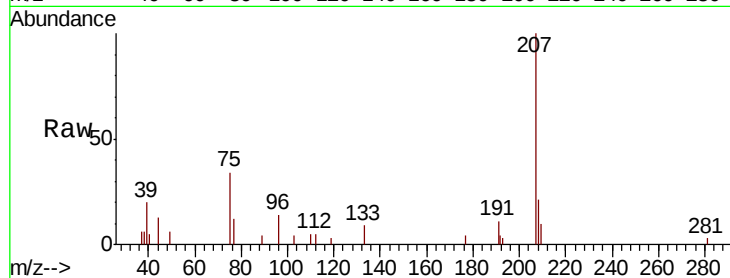
Tot Ion: 75 Resp: 3517

Ion Ratio Lower Upper

75 100

77 34.7 24.4 36.6

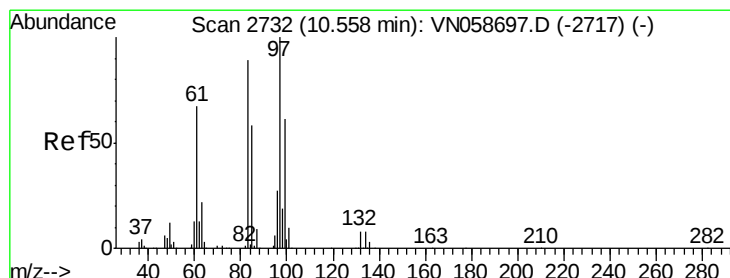
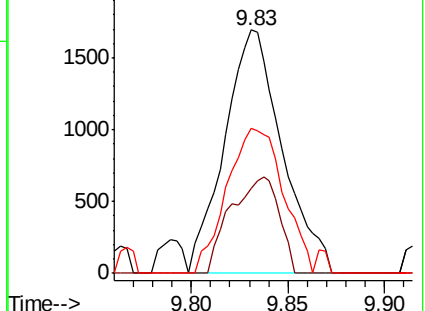
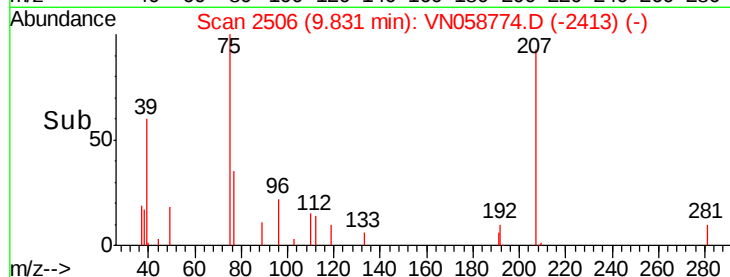
39 59.8 43.1 64.7



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0



#55

1,1,2-Trichloroethane

Concen: 0.540 ug/l

RT: 10.55 min Scan# 2731

Delta R.T. -0.00 min

Lab File: VN058774.D

Acq: 15 Oct 2019 12:14

Tgt Ion: 97 Resp: 2268

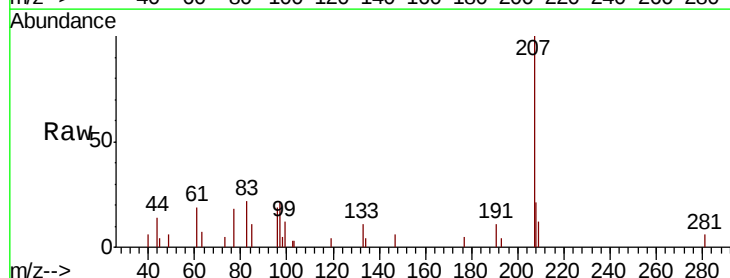
Ion Ratio Lower Upper

97 100

83 103.0 71.2 106.8

85 52.1 46.7 70.1

99 56.2 49.0 73.6

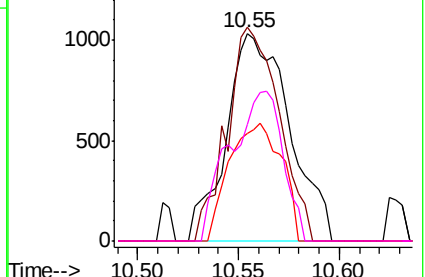
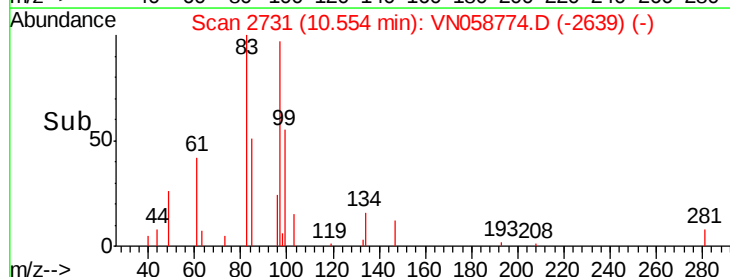


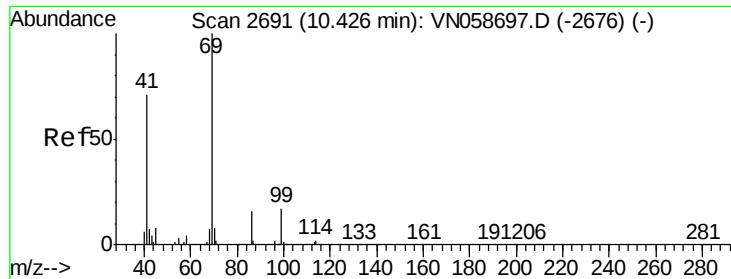
Abundance Ion 96.90 (96.60 to 97.60): VN0

Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0

Ion 98.90 (98.60 to 99.60): VN0





#56

Ethyl methacrylate

Concen: 0.393 ug/l

RT: 10.42 min Scan# 2690

Delta R.T. -0.00 min

Lab File: VN058774.D

Acq: 15 Oct 2019 12:14

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019DL

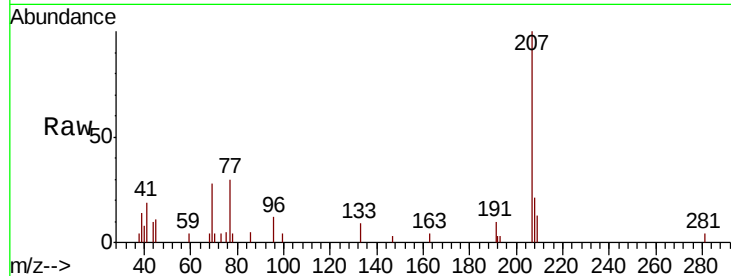
Tot Ion: 69 Resp: 2415

Ion Ratio Lower Upper

69 100

41 82.6 56.8 85.2

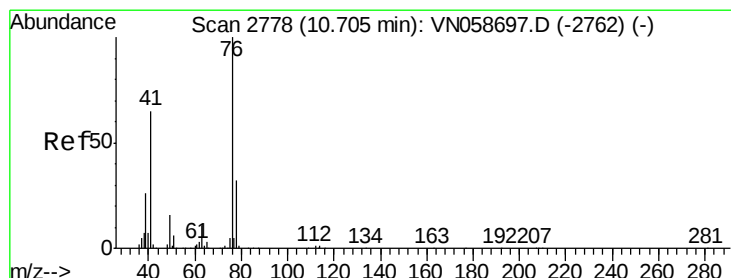
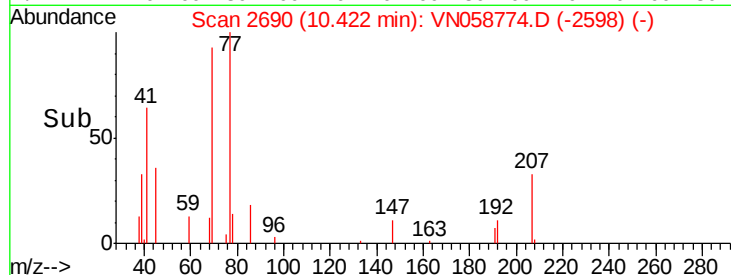
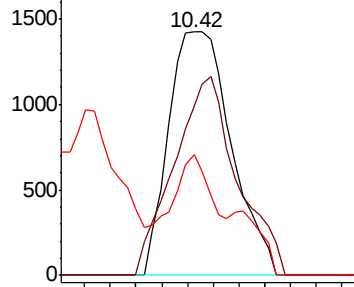
39 15.9 32.5 48.7#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 0.457 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN058774.D

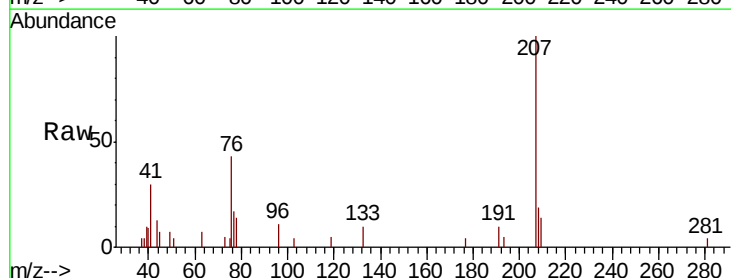
Acq: 15 Oct 2019 12:14

Tgt Ion: 76 Resp: 3272

Ion Ratio Lower Upper

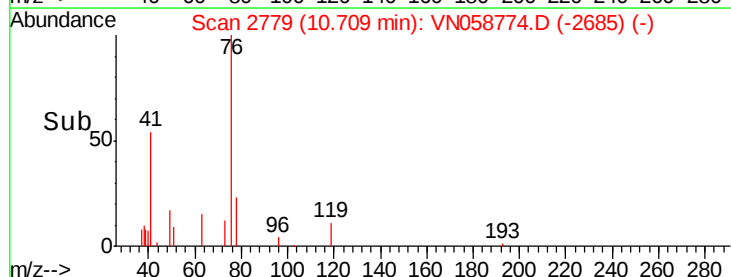
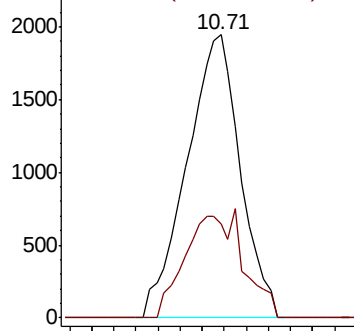
76 100

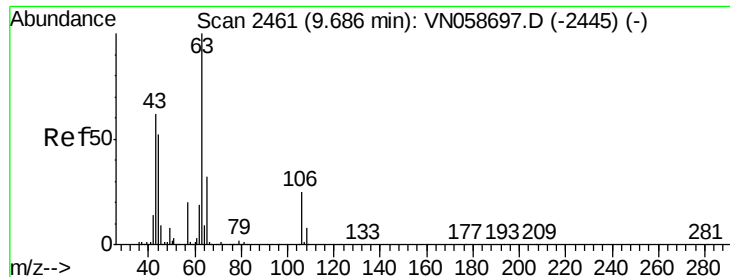
78 40.3 25.9 38.9#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

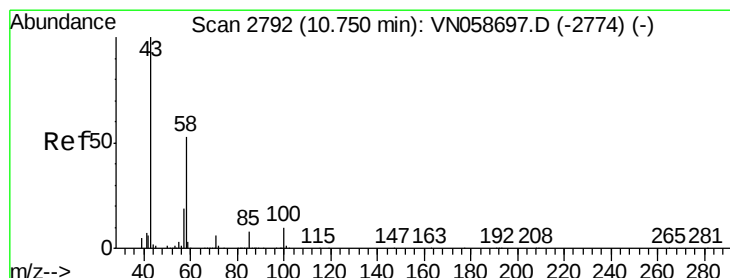
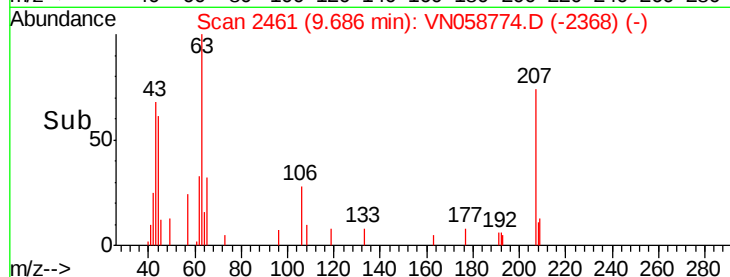
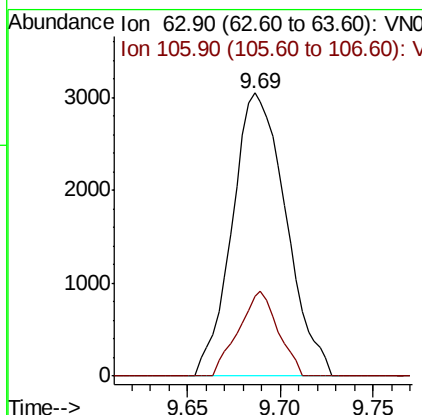
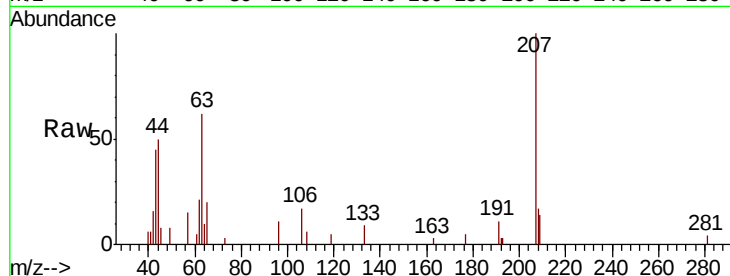




#58
 2-Chloroethyl Vinyl ether
 Concen: 2.075 ug/l
 RT: 9.69 min Scan# 2461
 Delta R.T. -0.00 min
 Lab File: VN058774.D
 Acq: 15 Oct 2019 12:14

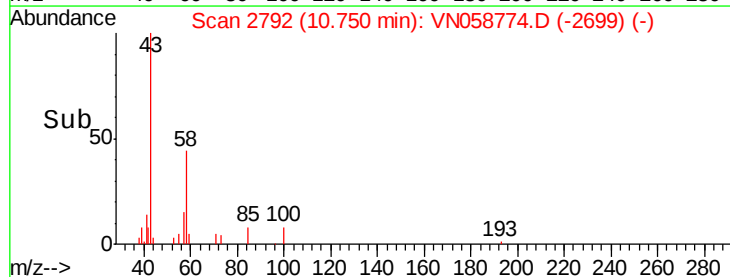
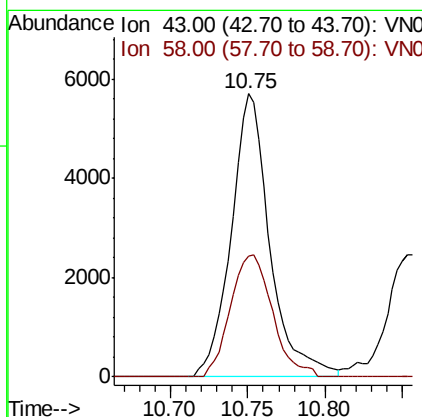
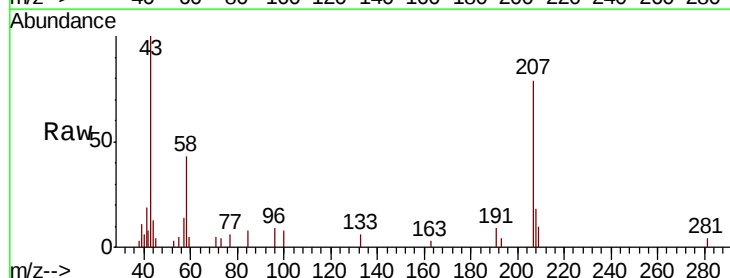
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019DL

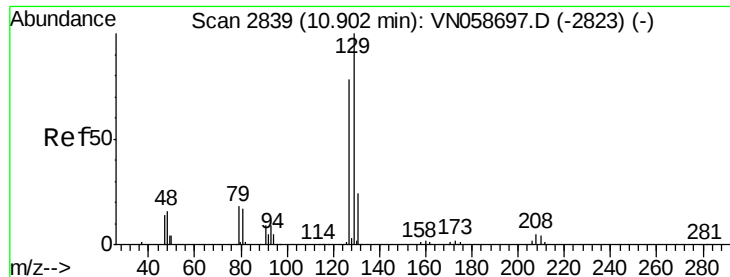
Tot Ion: 63 Resp: 6139
 Ion Ratio Lower Upper
 63 100
 106 22.0 20.0 30.0



#59
 2-Hexanone
 Concen: 2.261 ug/l
 RT: 10.75 min Scan# 2792
 Delta R.T. -0.00 min
 Lab File: VN058774.D
 Acq: 15 Oct 2019 12:14

Tgt Ion: 43 Resp: 9881
 Ion Ratio Lower Upper
 43 100
 58 46.9 26.1 78.3





#60

Dibromochloromethane

Concen: 0.410 ug/l

RT: 10.90 min Scan# 2838

Delta R.T. -0.00 min

Lab File: VN058774.D

Acq: 15 Oct 2019 12:14

Instrument :

MSVOA_N

ClientSampleId :

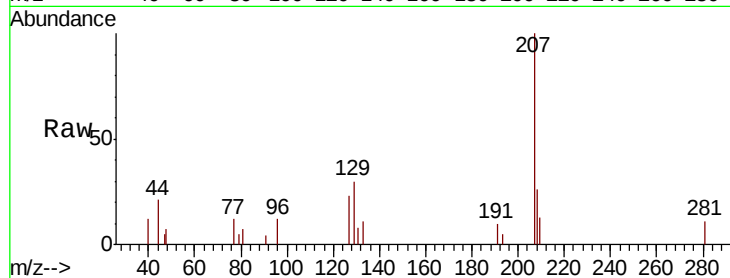
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion:129 Resp: 1777

Ion Ratio Lower Upper

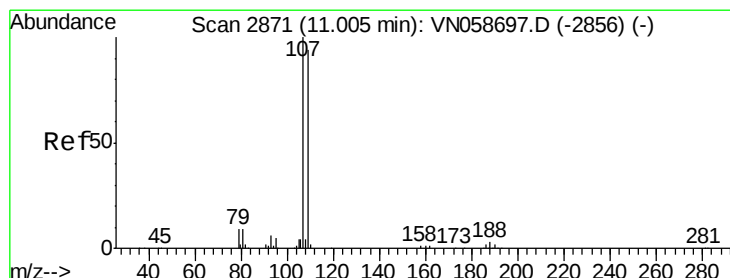
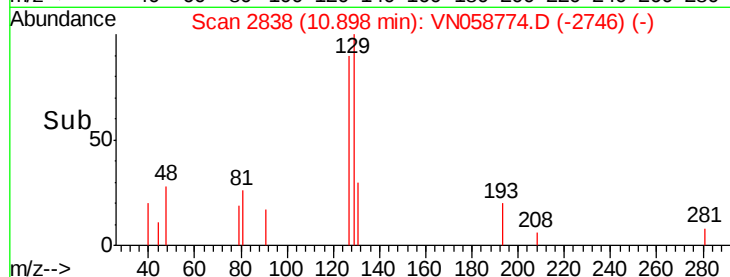
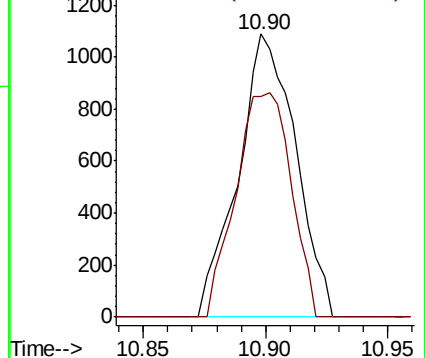
129 100

127 76.6 38.5 115.3



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#61

1,2-Dibromoethane

Concen: 0.486 ug/l

RT: 11.00 min Scan# 2871

Delta R.T. -0.00 min

Lab File: VN058774.D

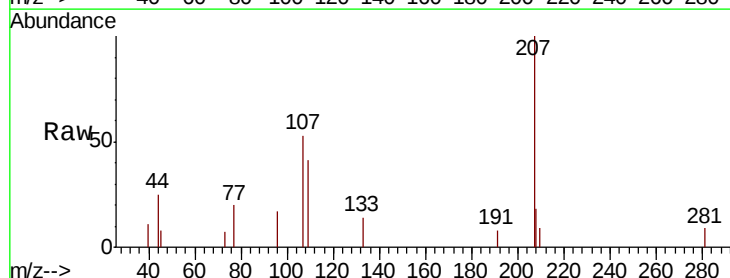
Acq: 15 Oct 2019 12:14

Tgt Ion:107 Resp: 2047

Ion Ratio Lower Upper

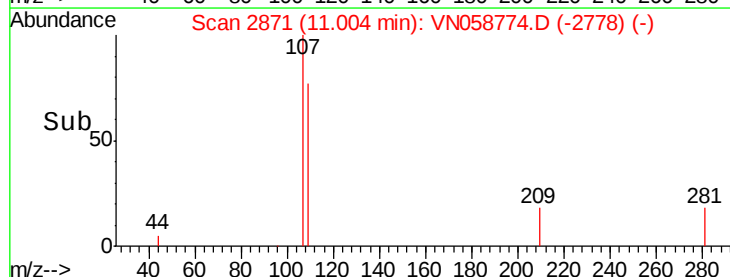
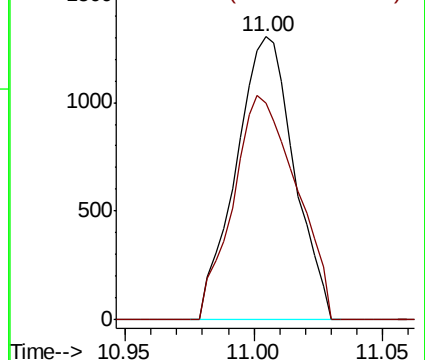
107 100

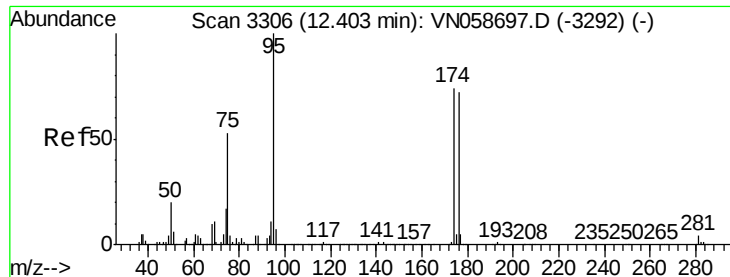
109 86.5 75.4 113.0



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V





#62

4-Bromofluorobenzene

Concen: 41.743 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.00 min

Lab File: VN058774.D

Acq: 15 Oct 2019 12:14

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019DL

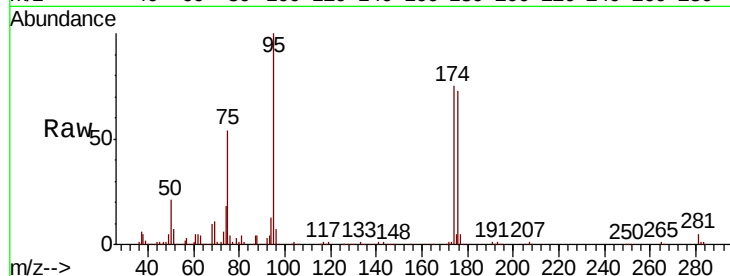
Tot Ion: 95 Resp: 225633

Ion Ratio Lower Upper

95 100

174 76.3 0.0 150.4

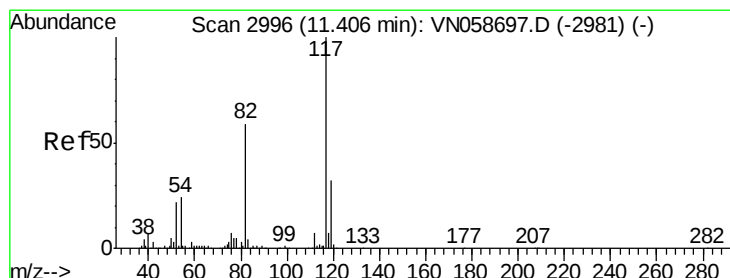
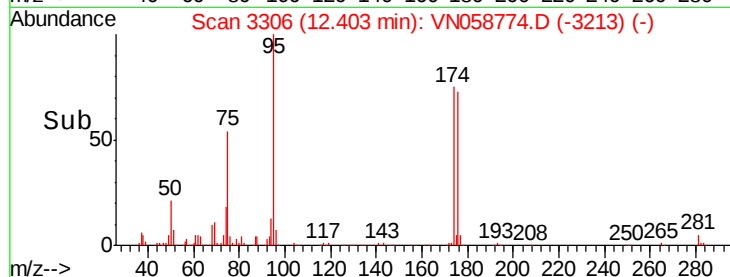
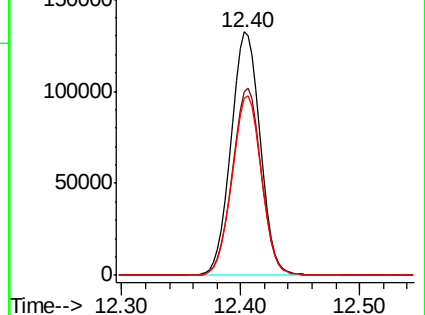
176 74.0 0.0 146.8



Abundance Ion 94.90 (94.60 to 95.60): VN058697.D (-3292) (-)

Ion 173.80 (173.50 to 174.50): VN058697.D (-3292) (-)

Ion 175.80 (175.50 to 176.50): VN058697.D (-3292) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN058774.D

Acq: 15 Oct 2019 12:14

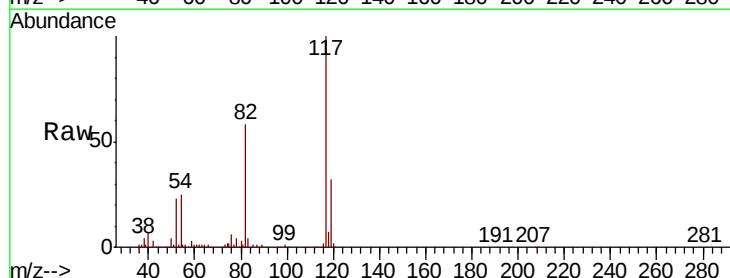
Tgt Ion: 117 Resp: 518173

Ion Ratio Lower Upper

117 100

82 58.4 47.0 70.4

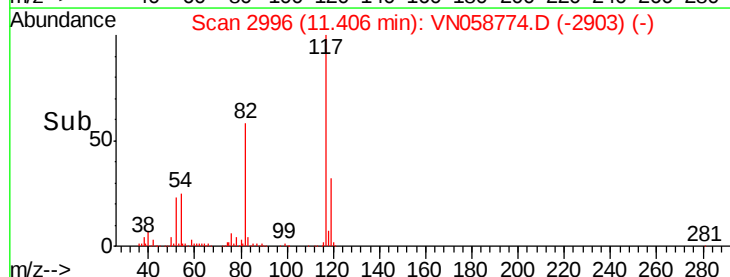
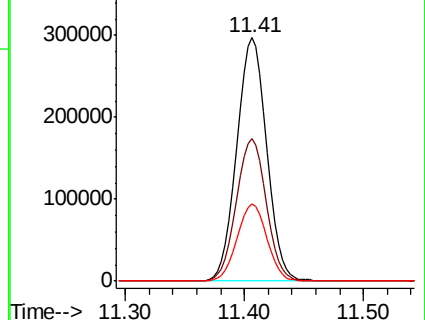
119 31.7 25.4 38.2

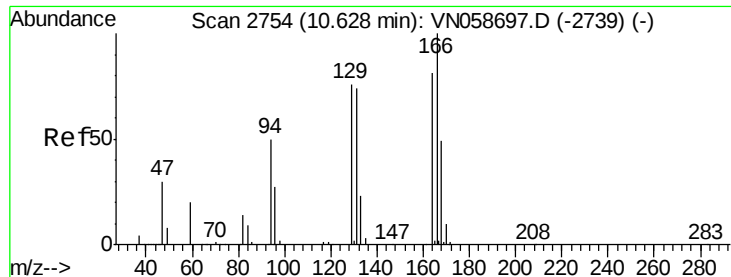


Abundance Ion 116.90 (116.60 to 117.60): VN058697.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN058697.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN058697.D (-2981) (-)





#64

Tetrachloroethene

Concen: 0.604 ug/l

RT: 10.63 min Scan# 2753

Delta R.T. -0.00 min

Lab File: VN058774.D

Acq: 15 Oct 2019 12:14

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019DL

Tot Ion:164 Resp: 2189

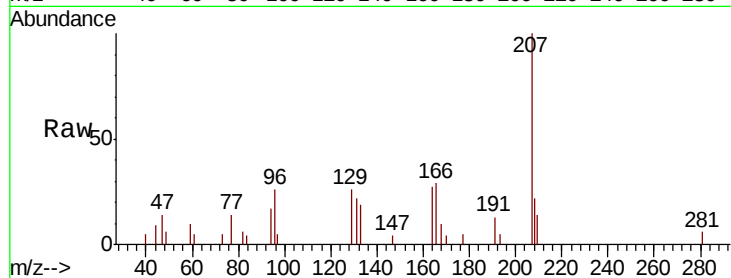
Ion Ratio Lower Upper

164 100

166 107.2 99.3 148.9

129 95.8 75.2 112.8

131 82.1 73.0 109.4

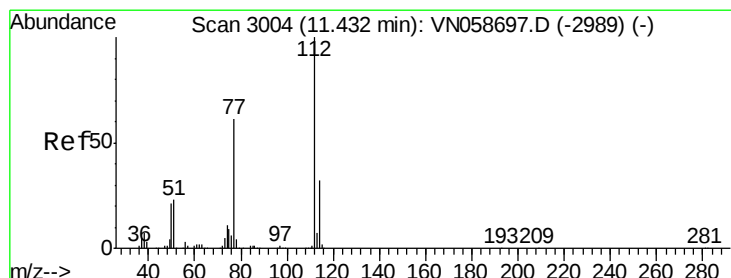
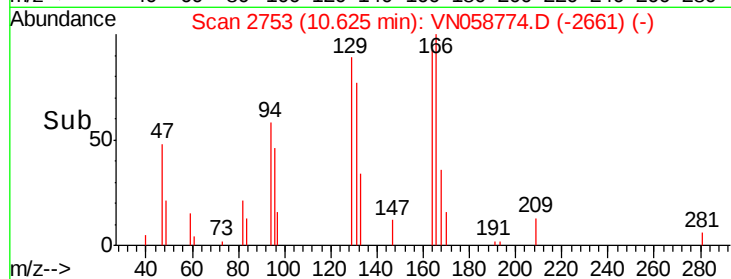
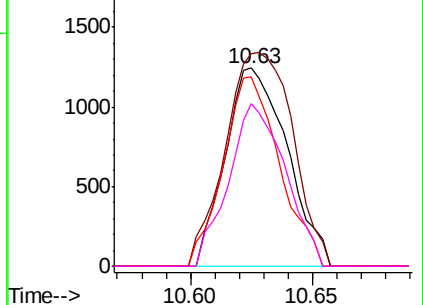


Abundance Ion 163.80 (163.50 to 164.50): V

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: 0.491 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. -0.00 min

Lab File: VN058774.D

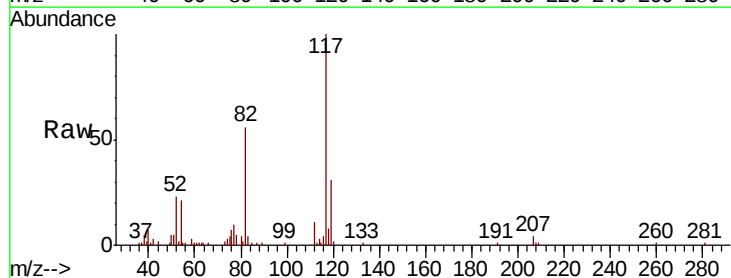
Acq: 15 Oct 2019 12:14

Tgt Ion:112 Resp: 5170

Ion Ratio Lower Upper

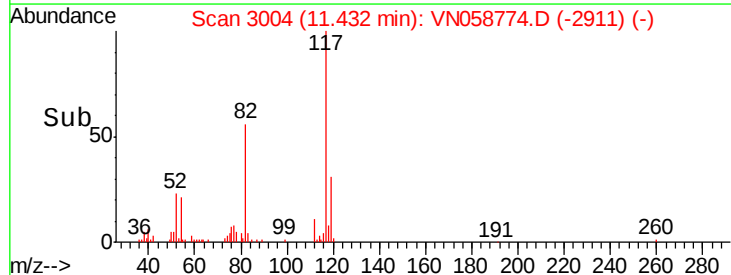
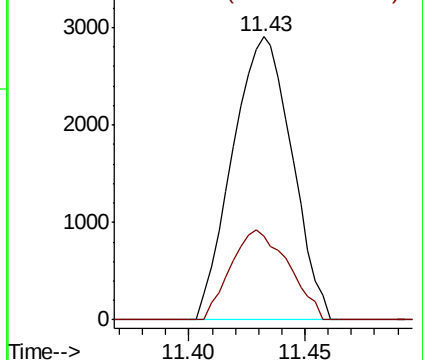
112 100

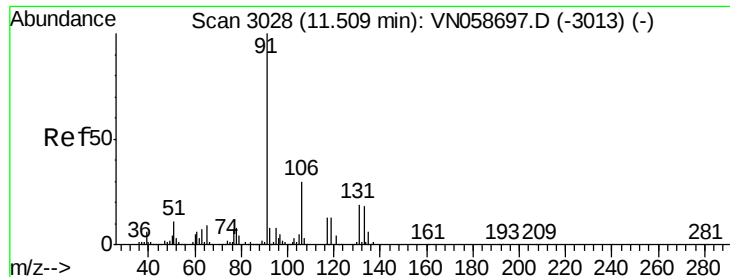
114 29.5 25.2 37.8



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: 0.513 ug/l

RT: 11.51 min Scan# 3027

Delta R.T. -0.00 min

Lab File: VN058774.D

Acq: 15 Oct 2019 12:14

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019DL

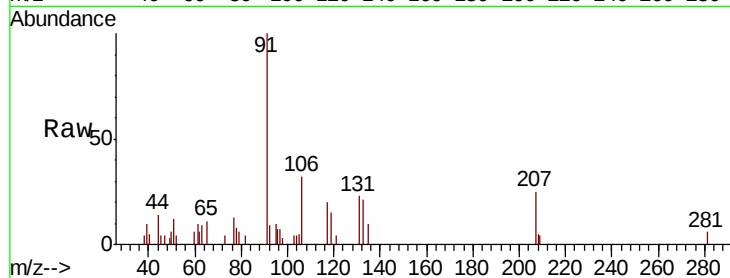
Tot Ion:131 Resp: 1996

Ion Ratio Lower Upper

131 100

133 115.1 47.6 142.9

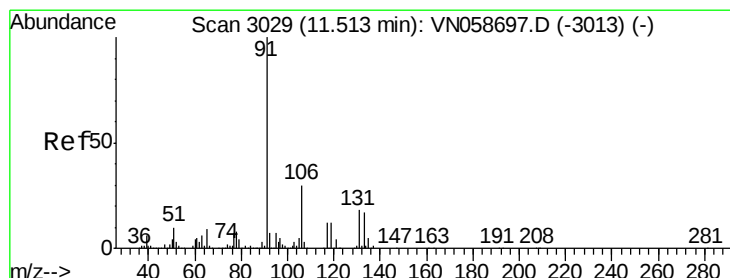
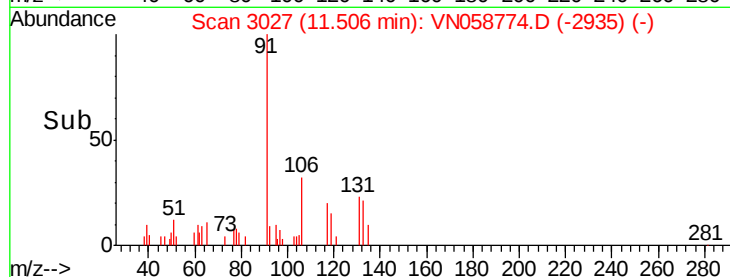
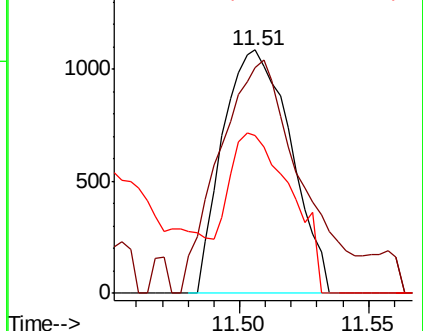
119 0.0 33.0 98.9#



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: 0.469 ug/l

RT: 11.51 min Scan# 3029

Delta R.T. -0.00 min

Lab File: VN058774.D

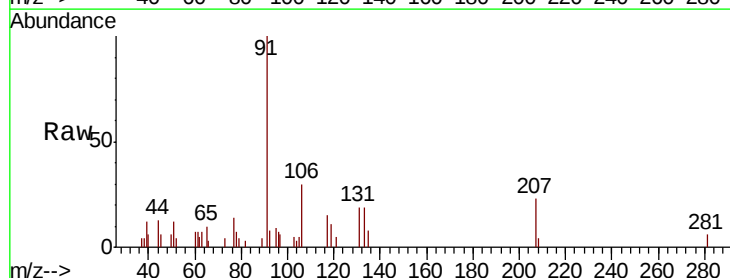
Acq: 15 Oct 2019 12:14

Tgt Ion: 91 Resp: 8806

Ion Ratio Lower Upper

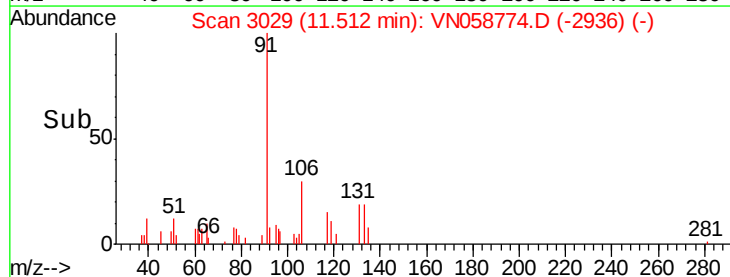
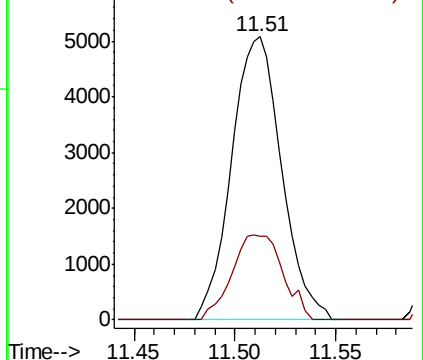
91 100

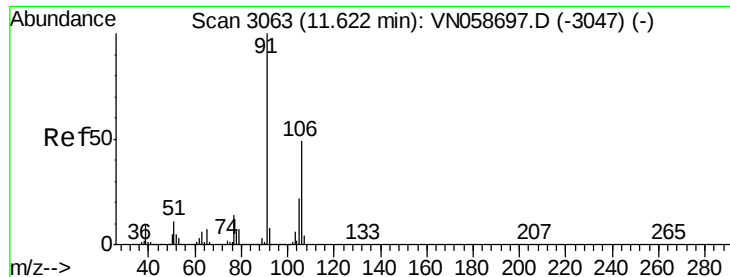
106 29.6 24.1 36.1



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 106.00 (105.70 to 106.70): V

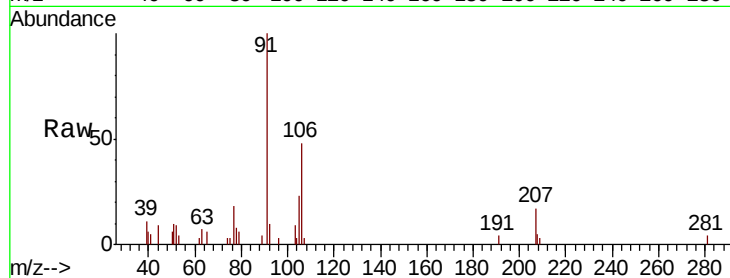




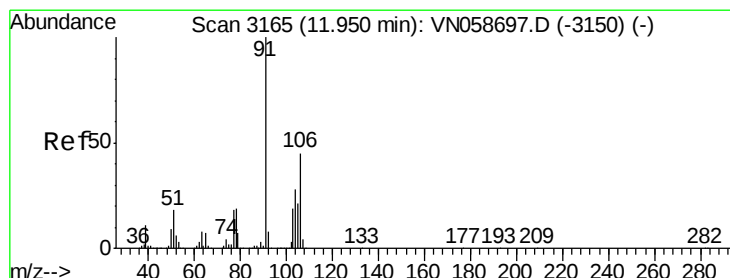
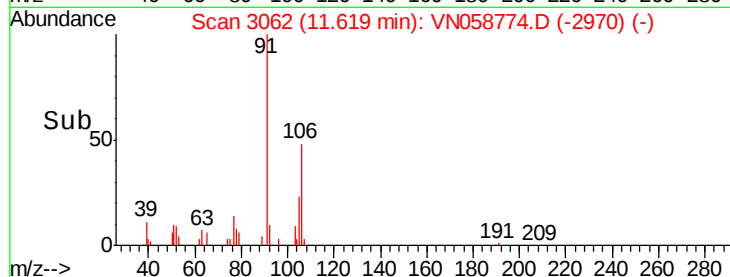
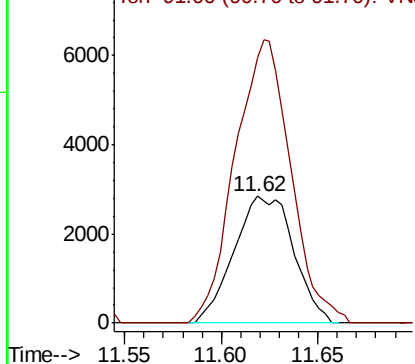
#68
m/p-Xylenes
Concen: 0.868 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN058774.D
Acq: 15 Oct 2019 12:14

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion:106 Resp: 6109
Ion Ratio Lower Upper
106 100
91 208.2 165.7 248.5

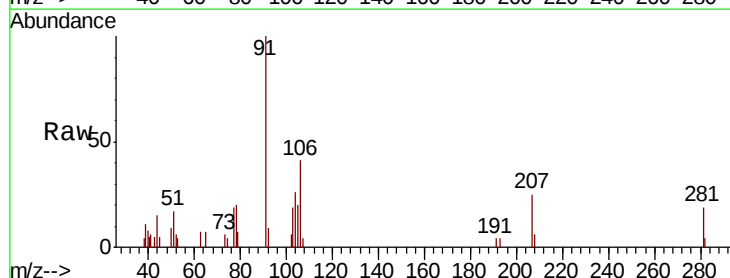


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VN

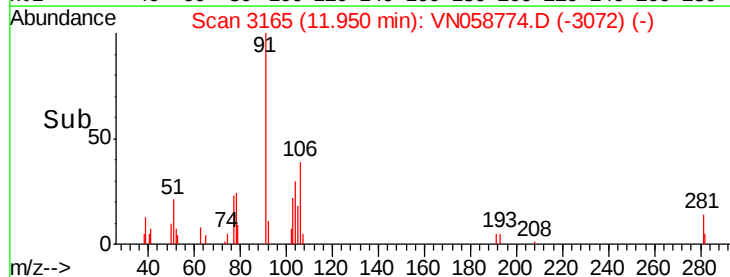
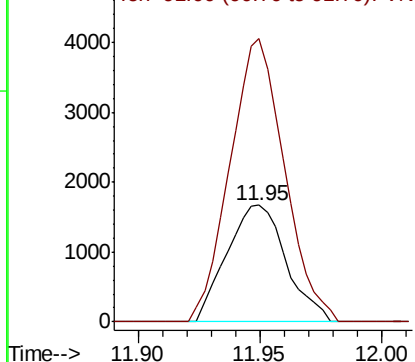


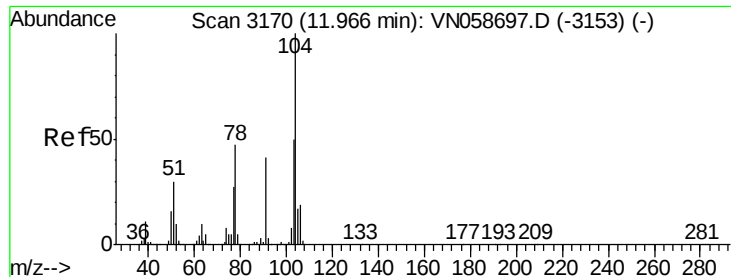
#69
o-Xylene
Concen: 0.414 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. -0.00 min
Lab File: VN058774.D
Acq: 15 Oct 2019 12:14

Tgt Ion:106 Resp: 2821
Ion Ratio Lower Upper
106 100
91 222.5 110.9 332.9



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

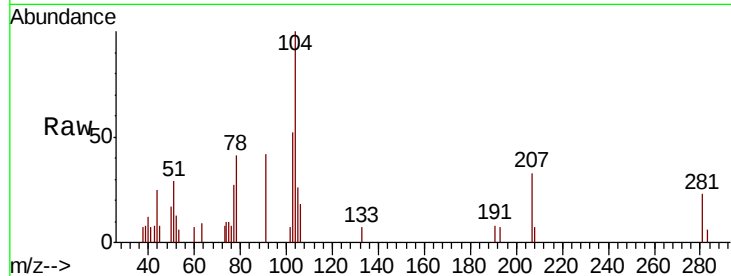




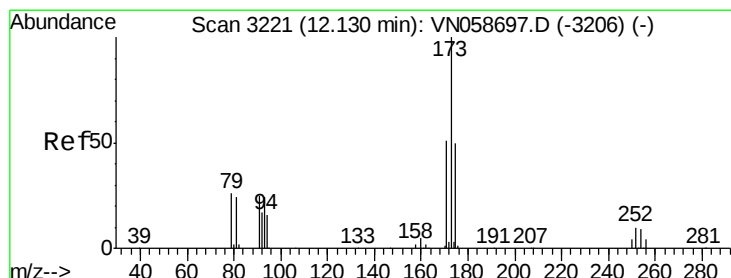
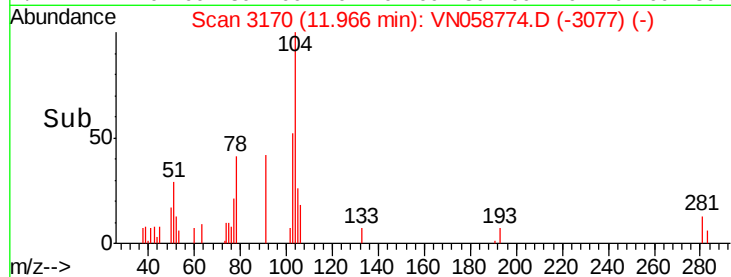
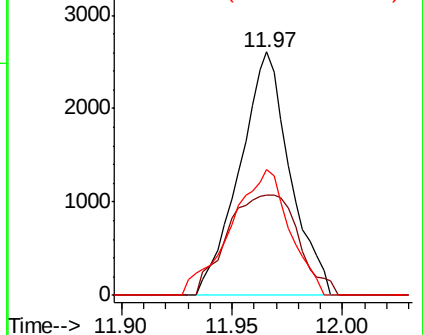
#70
Stvrene
Concen: 0.370 ug/l
RT: 11.97 min Scan# 3170
Delta R.T. -0.00 min
Lab File: VN058774.D
Acq: 15 Oct 2019 12:14

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion:104 Resp: 4135
Ion Ratio Lower Upper
104 100
78 58.4 42.2 63.2
103 60.2 43.7 65.5

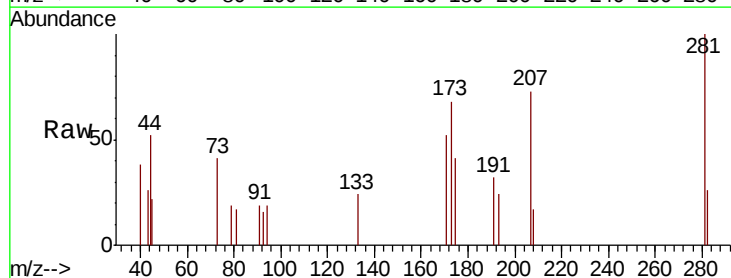


Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): V
Ion 103.00 (102.70 to 103.70): V

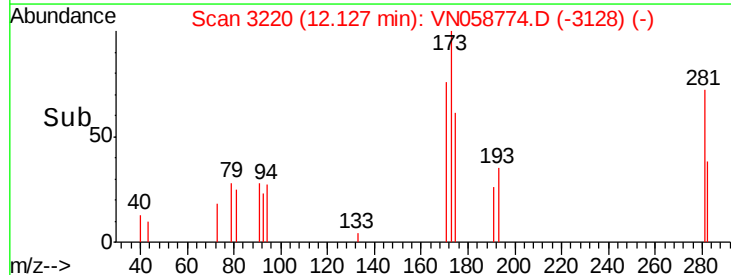
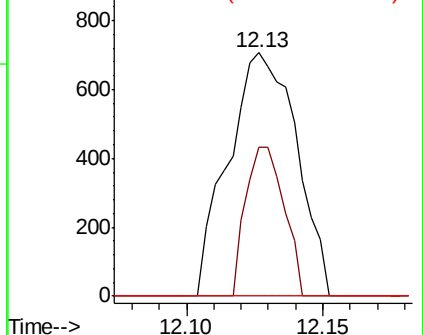


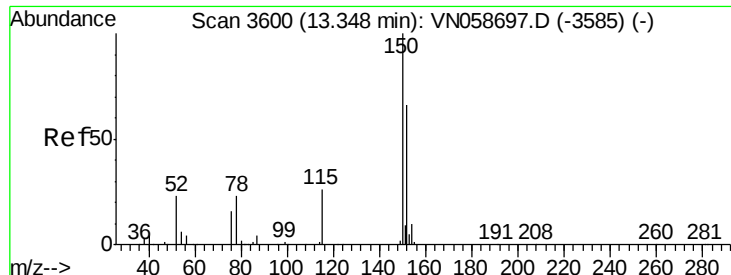
#71
Bromoform
Concen: 0.430 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. -0.00 min
Lab File: VN058774.D
Acq: 15 Oct 2019 12:14

Tgt Ion:173 Resp: 1227
Ion Ratio Lower Upper
173 100
175 34.1 24.6 73.8
254 0.0 0.1 0.1#



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: 13.35 min Scan# 3600

Delta R.T. -0.00 min

Lab File: VN058774.D

Acq: 15 Oct 2019 12:14

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019DL

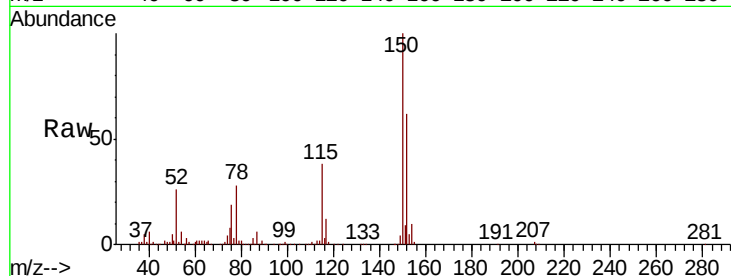
Tot Ion:152 Resp: 209831

Ion Ratio Lower Upper

152 100

115 61.4 30.4 91.2

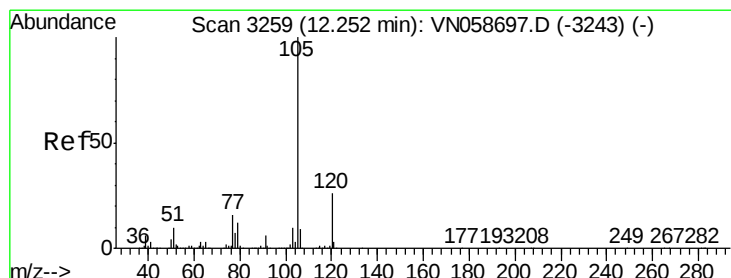
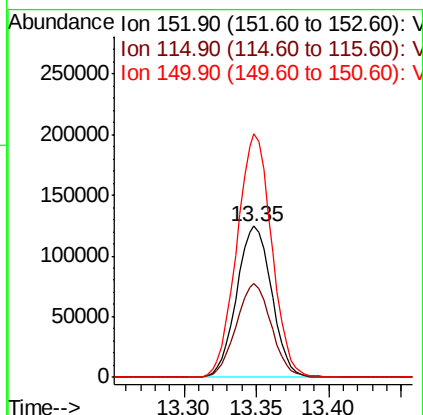
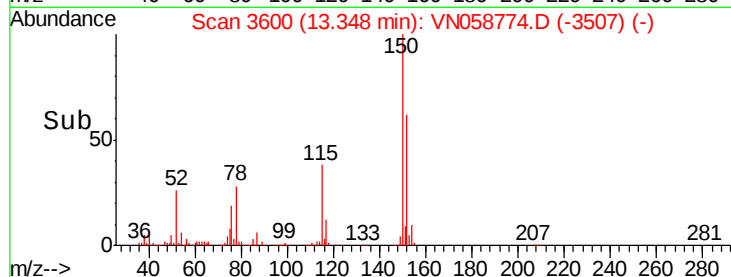
150 159.4 0.0 345.4



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: 0.499 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN058774.D

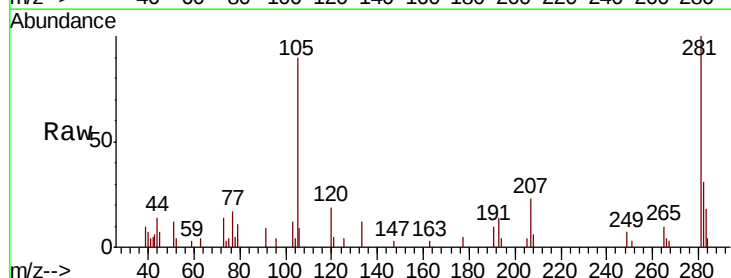
Acq: 15 Oct 2019 12:14

Tgt Ion:105 Resp: 7579

Ion Ratio Lower Upper

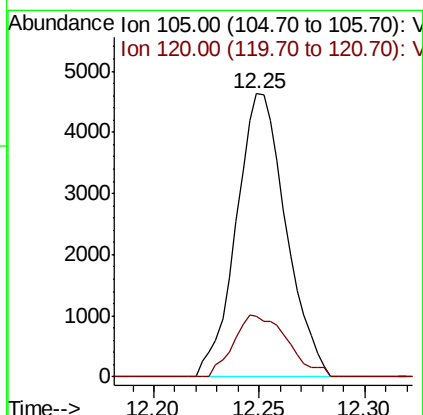
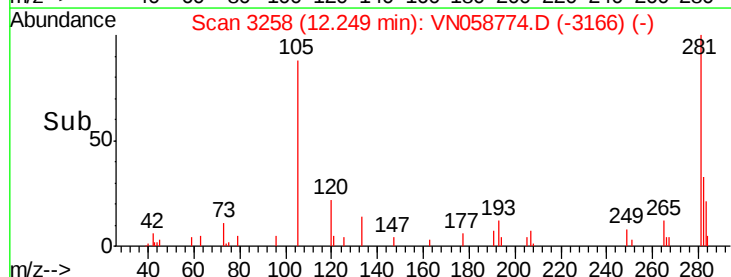
105 100

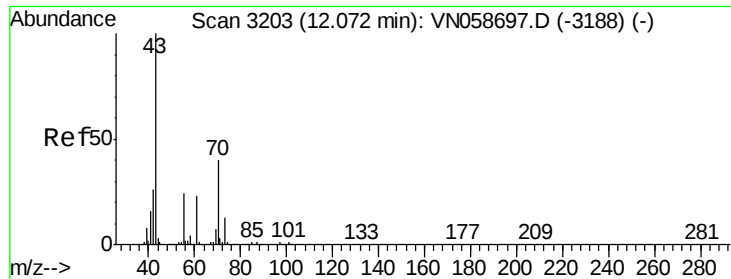
120 23.7 13.1 39.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

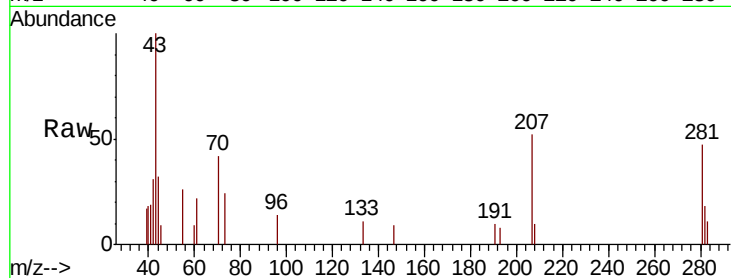




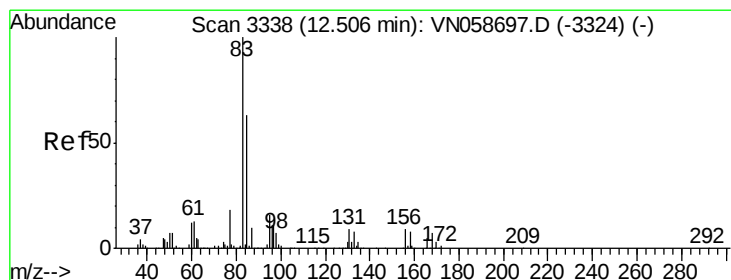
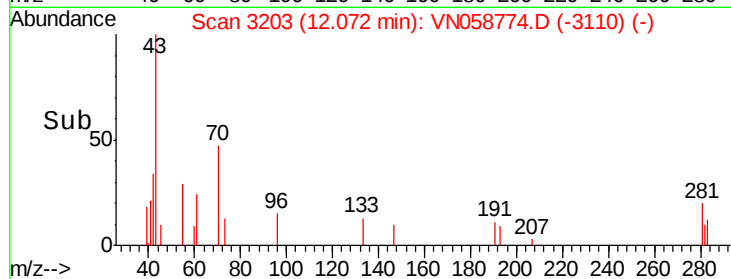
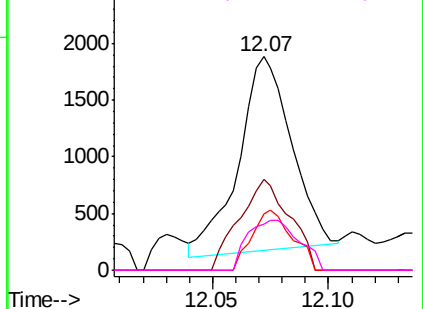
#74
N-amvl acetate
Concen: 0.398 ug/l
RT: 12.07 min Scan# 3203
Delta R.T. -0.00 min
Lab File: VN058774.D
Acq: 15 Oct 2019 12:14

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion:	43	Resp:	2715
Ion	Ratio	Lower	Upper
43	100		
70	44.7	32.2	48.4
55	23.7	19.6	29.4
61	25.2	18.6	28.0

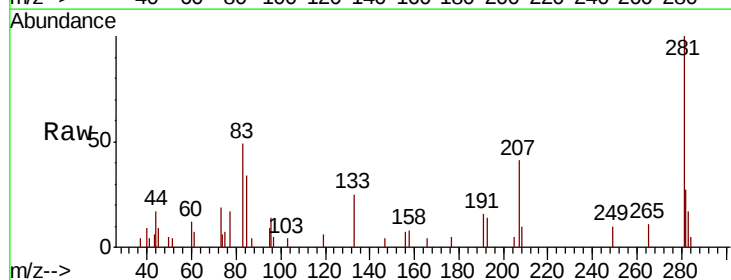


Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 70.00 (69.70 to 70.70): VNO
Ion 55.00 (54.70 to 55.70): VNO
Ion 61.00 (60.70 to 61.70): VNO

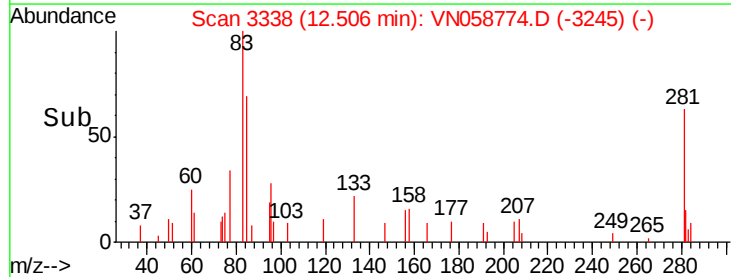
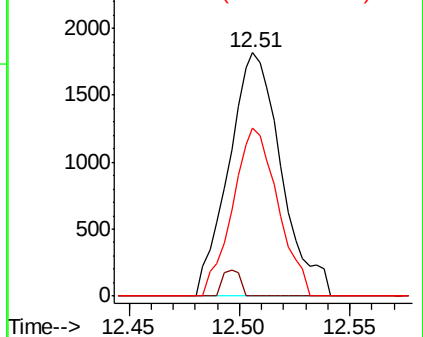


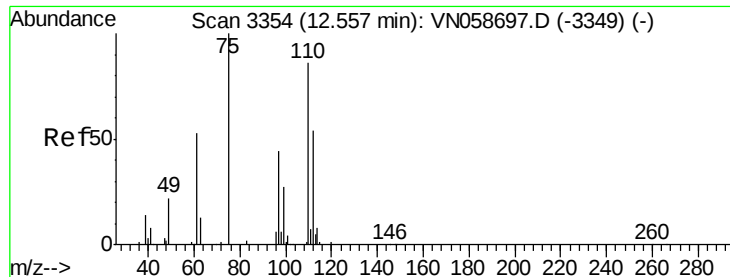
#75
1,1,2,2-Tetrachloroethane
Concen: 0.597 ug/l
RT: 12.51 min Scan# 3338
Delta R.T. -0.00 min
Lab File: VN058774.D
Acq: 15 Oct 2019 12:14

Tgt Ion:	83	Resp:	2989
Ion	Ratio	Lower	Upper
83	100		
131	3.5	4.8	14.4#
85	59.7	31.9	95.5



Abundance Ion 82.90 (82.60 to 83.60): VNO
Ion 130.80 (130.50 to 131.50): V
Ion 84.90 (84.60 to 85.60): VNO





#76

1,2,3-Trichloropropane

Concen: 26.423 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058774.D

Acq: 15 Oct 2019 12:14

Instrument :

MSVOA_N

ClientSampleId :

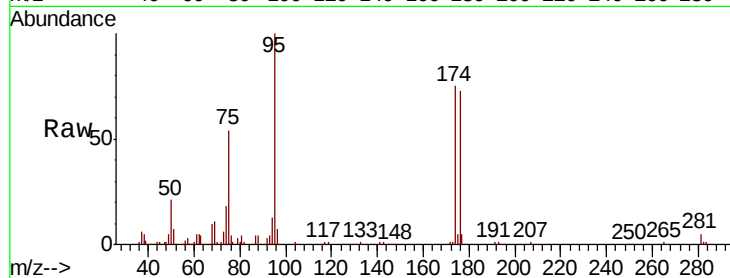
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion: 75 Resp: 121631

Ion Ratio Lower Upper

75 100

77 1.5 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

12.40

80000

60000

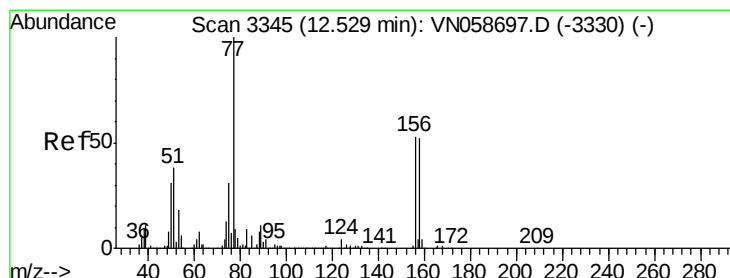
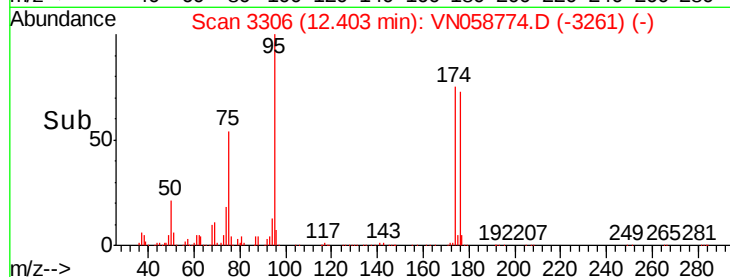
40000

20000

0

12.30 12.40 12.50

Time-->



#77

Bromobenzene

Concen: 0.583 ug/l

RT: 12.53 min Scan# 3345

Delta R.T. -0.00 min

Lab File: VN058774.D

Acq: 15 Oct 2019 12:14

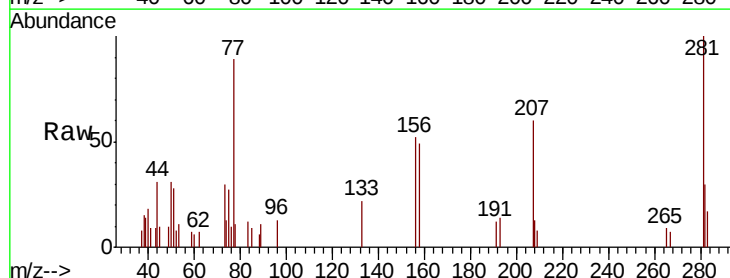
Tgt Ion: 156 Resp: 2154

Ion Ratio Lower Upper

156 100

77 270.0 115.8 347.3

158 97.4 48.9 146.6



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V

2500

2000

1500

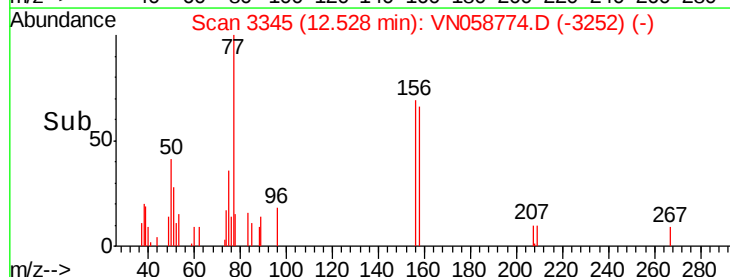
1000

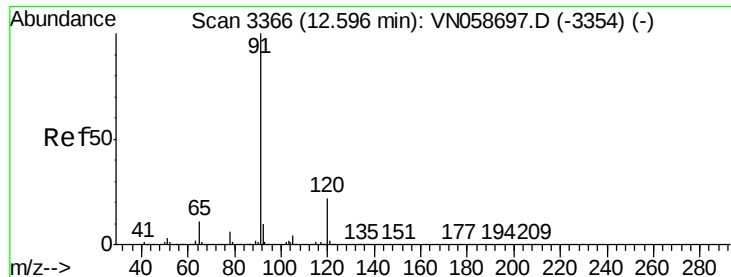
500

0

12.50 12.53 12.55

Time-->





#78

n-propylbenzene

Concen: 0.536 ug/l

RT: 12.59 min Scan# 3365

Delta R.T. -0.00 min

Lab File: VN058774.D

Acq: 15 Oct 2019 12:14

Instrument :

MSVOA_N

ClientSampleId :

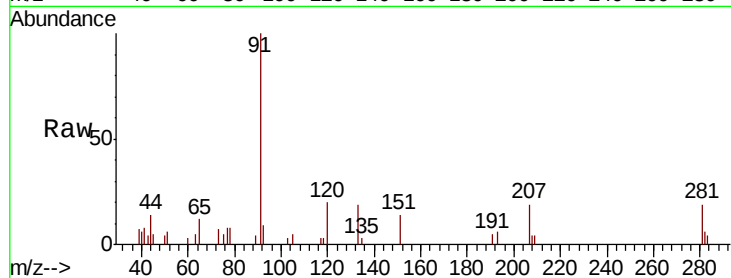
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion: 91 Resp: 9500

Ion Ratio Lower Upper

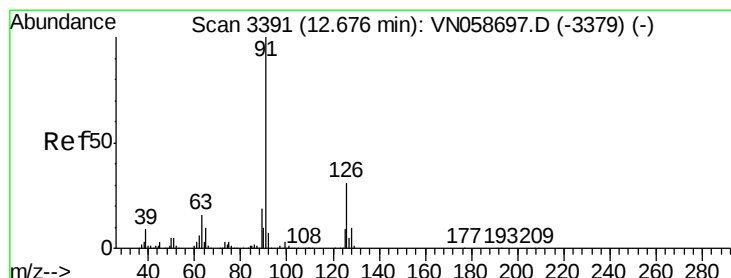
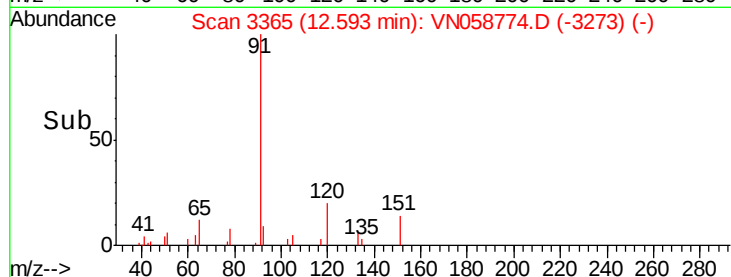
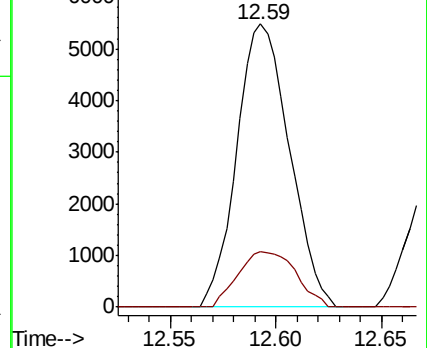
91 100

120 21.5 11.1 33.3



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V



#79

2-Chlorotoluene

Concen: 0.517 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. -0.00 min

Lab File: VN058774.D

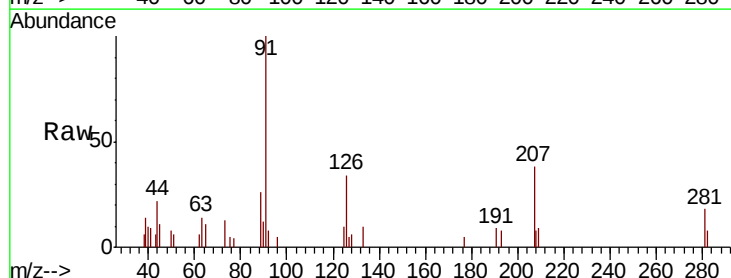
Acq: 15 Oct 2019 12:14

Tgt Ion: 91 Resp: 5685

Ion Ratio Lower Upper

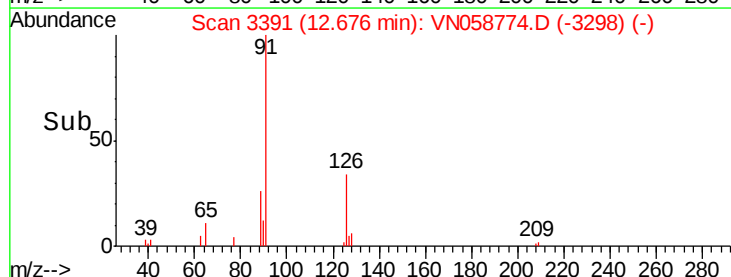
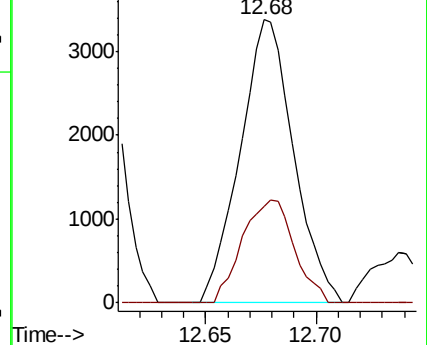
91 100

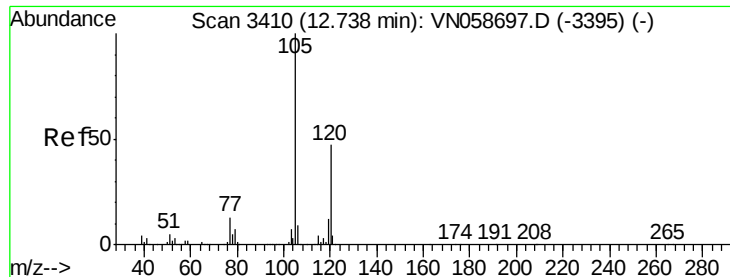
126 35.2 16.2 48.5



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V





#80

1,3,5-Trimethylbenzene

Concen: 0.477 ug/l

RT: 12.74 min Scan# 3410

Delta R.T. -0.00 min

Lab File: VN058774.D

Acq: 15 Oct 2019 12:14

Instrument :

MSVOA_N

ClientSampleId :

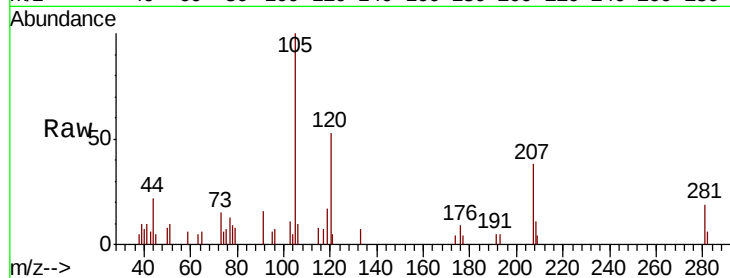
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion:105 Resp: 6187

Ion Ratio Lower Upper

105 100

120 48.9 23.4 70.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.74

4000

3000

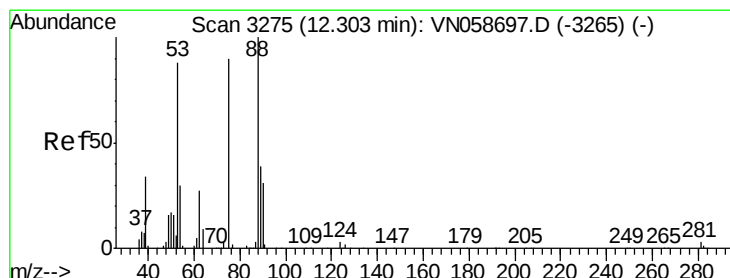
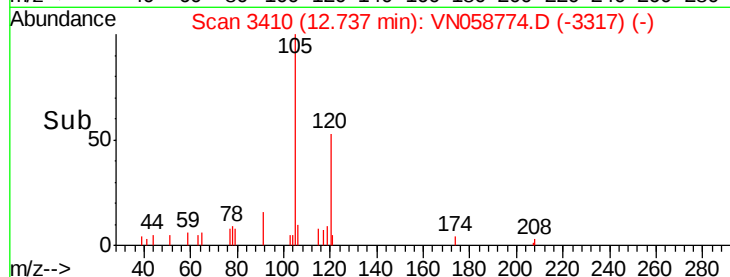
2000

1000

0

Time-->

12.70 12.75



#81

trans-1,4-Dichloro-2-butene

Concen: 70.779 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058774.D

Acq: 15 Oct 2019 12:14

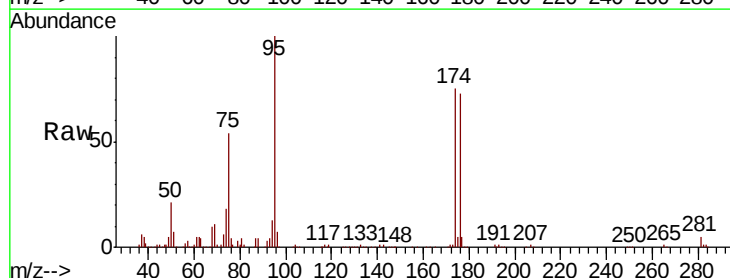
Tgt Ion: 75 Resp: 121631

Ion Ratio Lower Upper

75 100

53 0.0 78.4 117.6#

89 0.0 34.9 52.3#



Abundance Ion 74.90 (74.60 to 75.60): VNC

Ion 53.00 (52.70 to 53.70): VNC

Ion 88.90 (88.60 to 89.60): VNC

12.40

100000

80000

60000

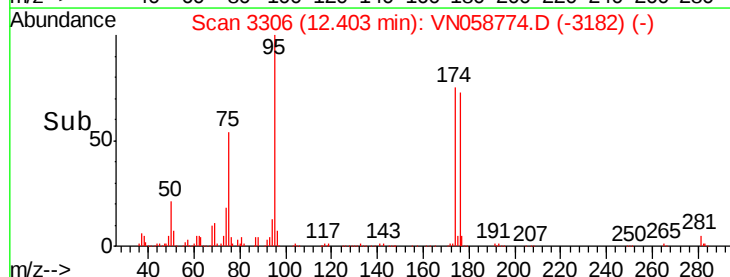
40000

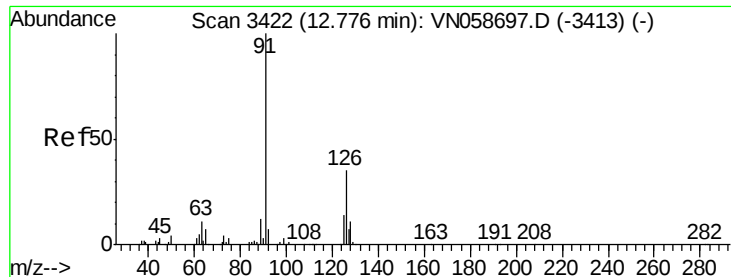
20000

0

Time-->

12.30 12.40 12.50

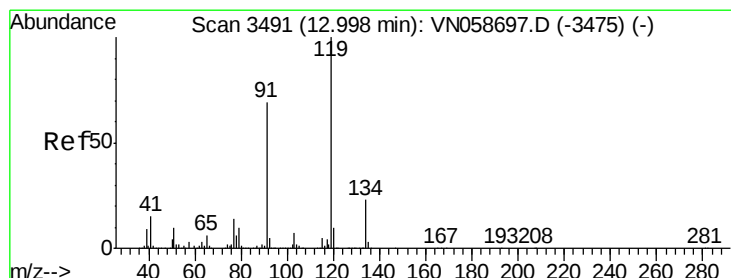
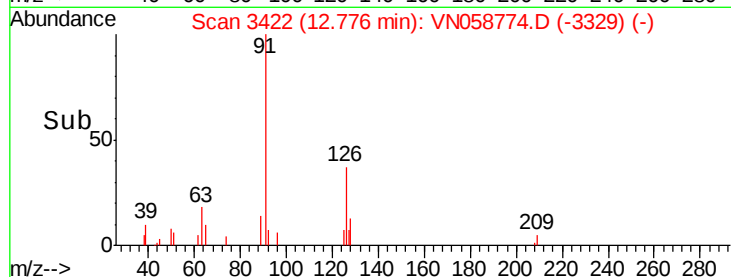
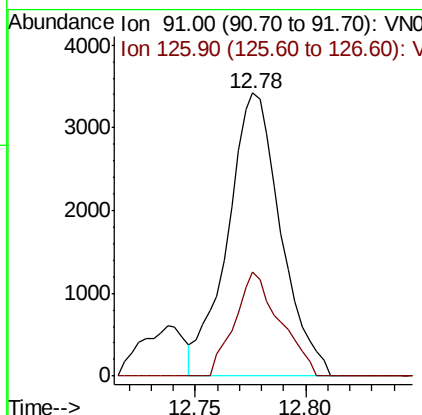
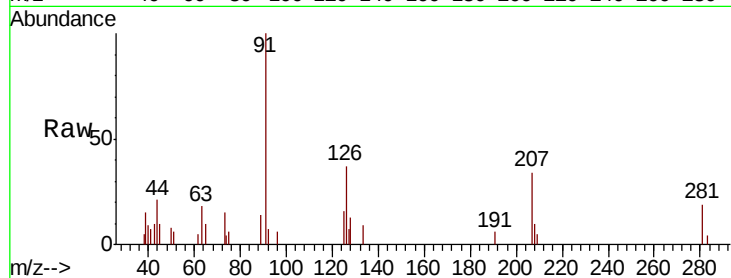




#82
4-Chlorotoluene
Concen: 0.506 ug/l
RT: 12.78 min Scan# 3422
Delta R.T. -0.00 min
Lab File: VN058774.D
Acq: 15 Oct 2019 12:14

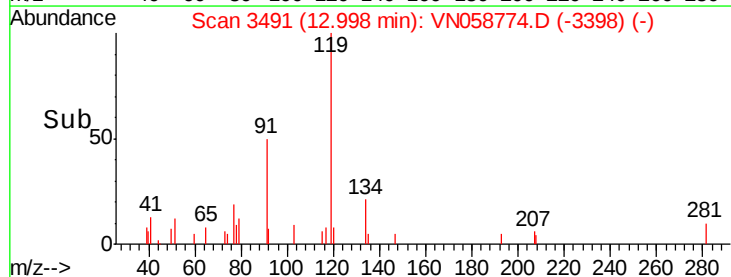
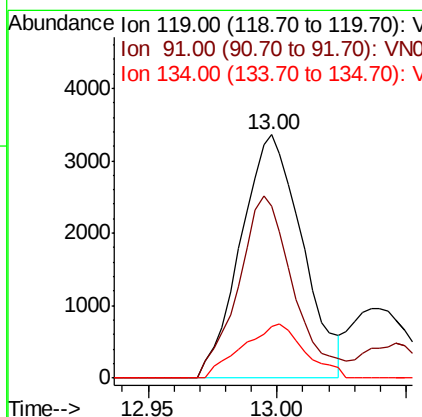
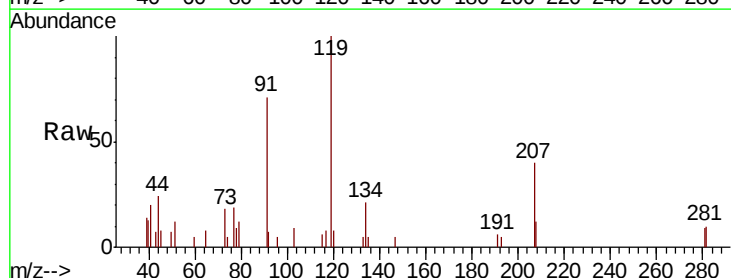
Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

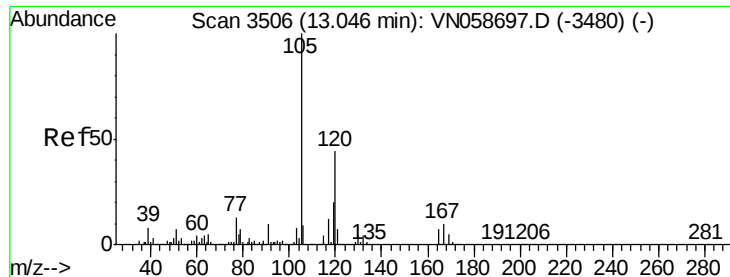
Tot Ion: 91 Resp: 5707
Ion Ratio Lower Upper
91 100
126 31.2 15.9 47.6



#83
tert-Butylbenzene
Concen: 0.503 ug/l
RT: 13.00 min Scan# 3491
Delta R.T. -0.00 min
Lab File: VN058774.D
Acq: 15 Oct 2019 12:14

Tgt Ion: 119 Resp: 5595
Ion Ratio Lower Upper
119 100
91 67.1 33.8 101.3
134 22.5 12.6 37.6





#84

1,2,4-Trimethylbenzene

Concen: 0.440 ug/l

RT: 13.04 min Scan# 3505

Delta R.T. -0.00 min

Lab File: VN058774.D

Acq: 15 Oct 2019 12:14

Instrument :

MSVOA_N

ClientSampleId :

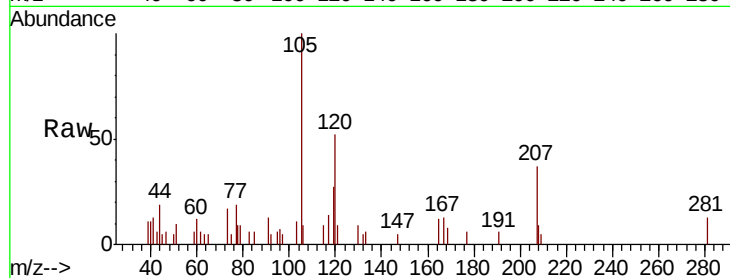
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion:105 Resp: 5662

Ion Ratio Lower Upper

105 100

120 52.2 21.9 65.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

13.04

3000

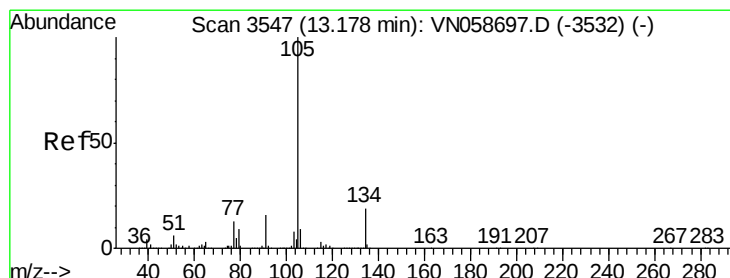
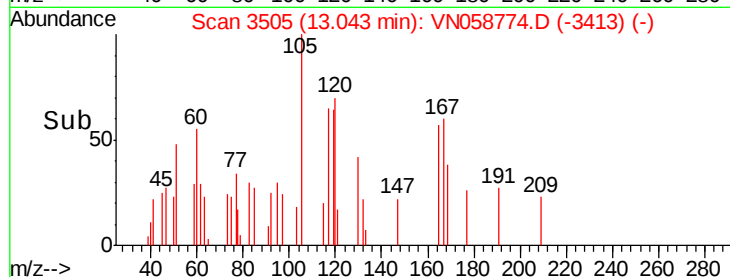
2000

1000

0

13.00 13.05 13.10

Time-->



#85

sec-Butylbenzene

Concen: 0.451 ug/l

RT: 13.18 min Scan# 3547

Delta R.T. -0.00 min

Lab File: VN058774.D

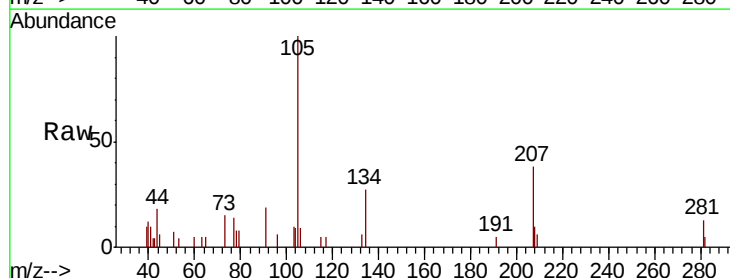
Acq: 15 Oct 2019 12:14

Tgt Ion:105 Resp: 6609

Ion Ratio Lower Upper

105 100

134 25.4 9.7 29.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

13.18

4000

3000

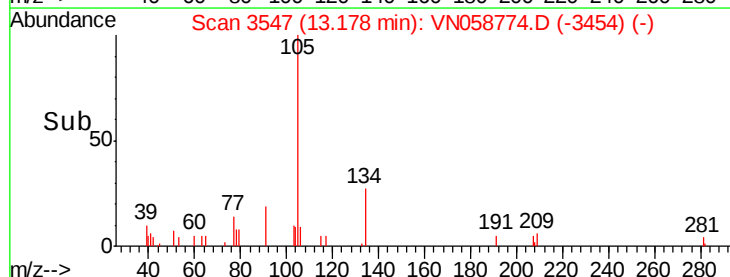
2000

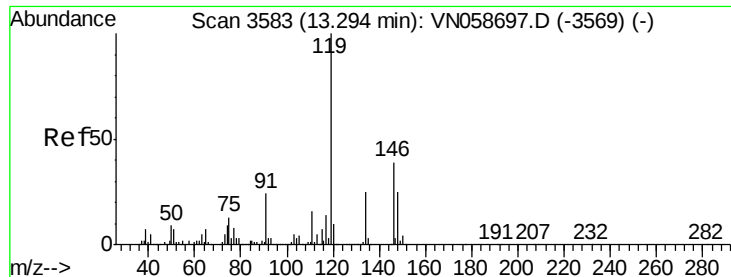
1000

0

13.15 13.20

Time-->

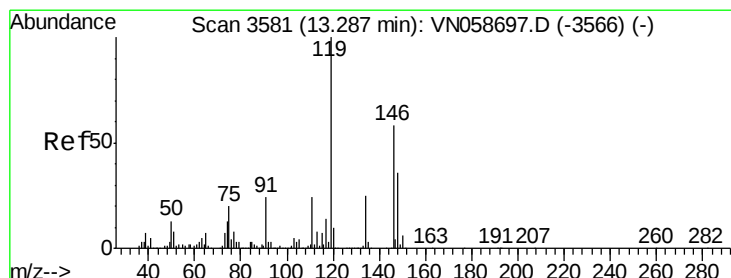
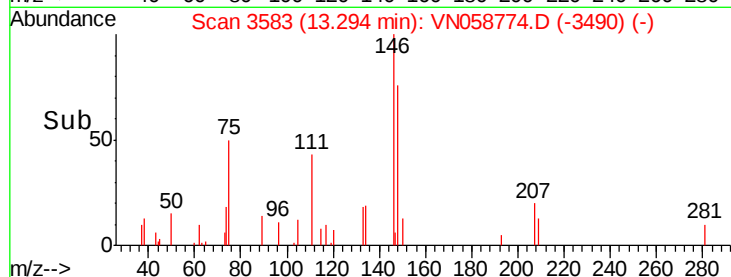
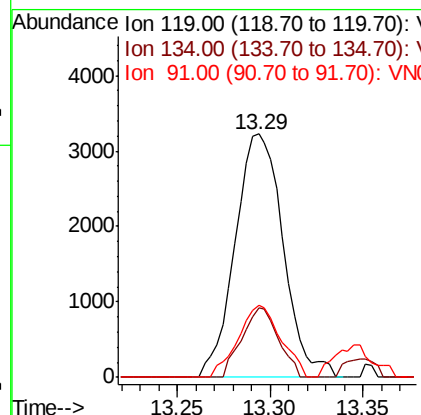
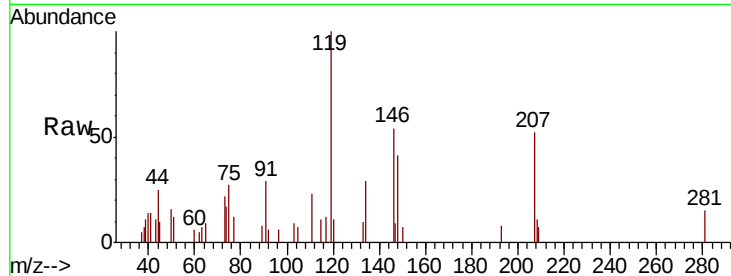




#86
 p-Isopropyltoluene
 Concen: 0.436 ug/l
 RT: 13.29 min Scan# 3583
 Delta R.T. -0.00 min
 Lab File: VN058774.D
 Acq: 15 Oct 2019 12:14

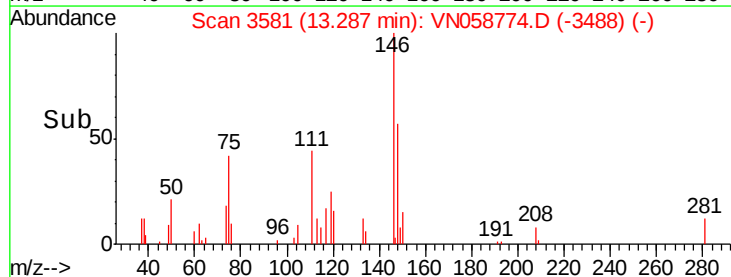
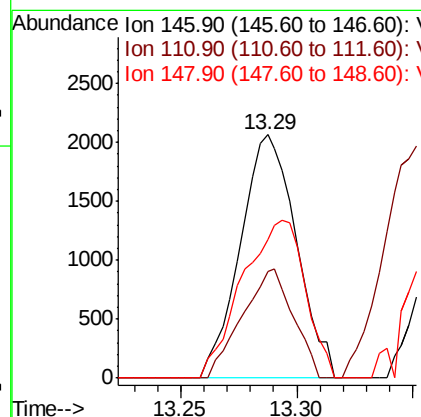
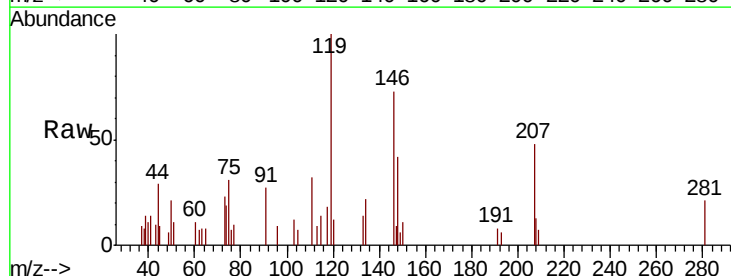
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019DL

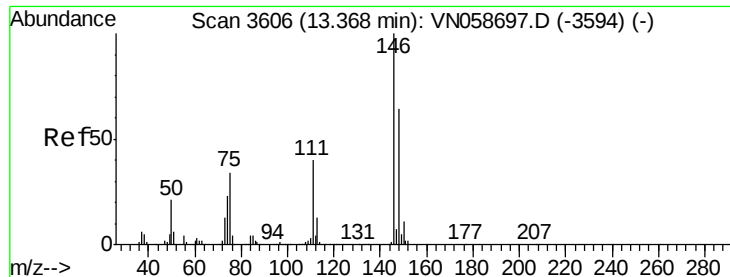
Tot Ion	Ratio	Lower	Upper
119	100		
134	21.7	12.7	38.1
91	26.1	11.9	35.5



#87
 1,3-Dichlorobenzene
 Concen: 0.507 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. -0.00 min
 Lab File: VN058774.D
 Acq: 15 Oct 2019 12:14

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.9	20.5	61.6
148	72.9	31.3	93.9





#88

1,4-Dichlorobenzene

Concen: 0.499 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. -0.08 min

Lab File: VN058774.D

Acq: 15 Oct 2019 12:14

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019DL

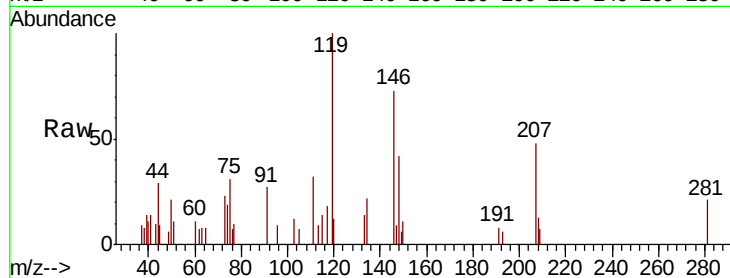
Tot Ion:146 Resp: 3458

Ion Ratio Lower Upper

146 100

111 40.9 20.1 60.2

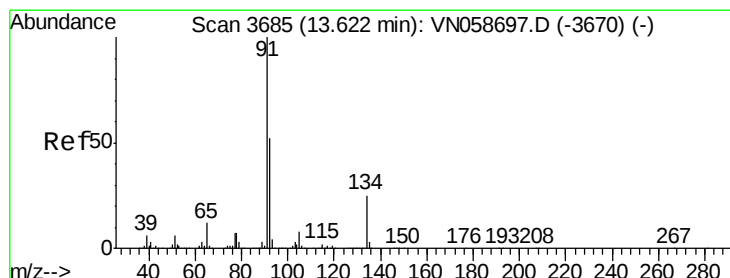
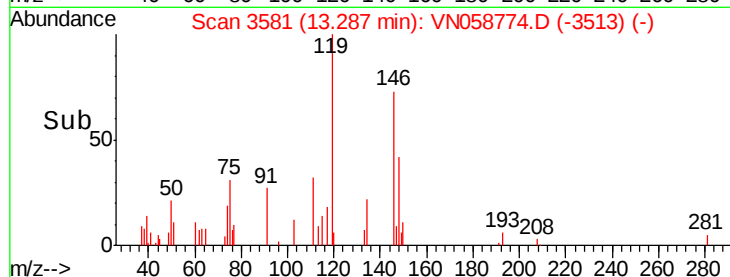
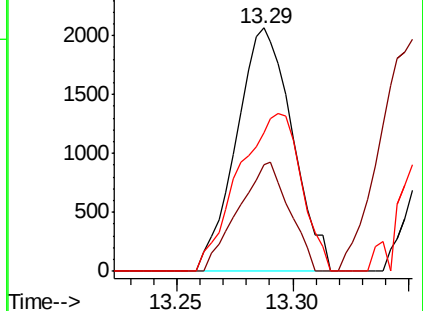
148 72.9 31.9 95.7



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: 0.422 ug/l

RT: 13.62 min Scan# 3685

Delta R.T. -0.00 min

Lab File: VN058774.D

Acq: 15 Oct 2019 12:14

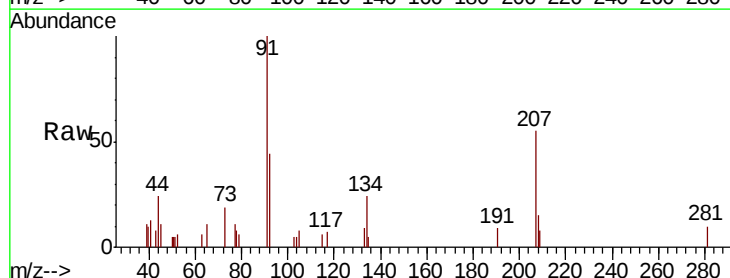
Tgt Ion: 91 Resp: 5197

Ion Ratio Lower Upper

91 100

92 50.6 26.0 78.0

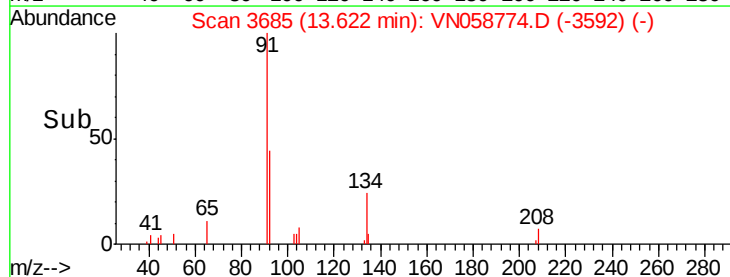
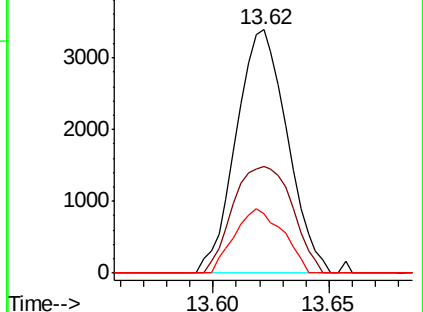
134 25.0 12.2 36.6

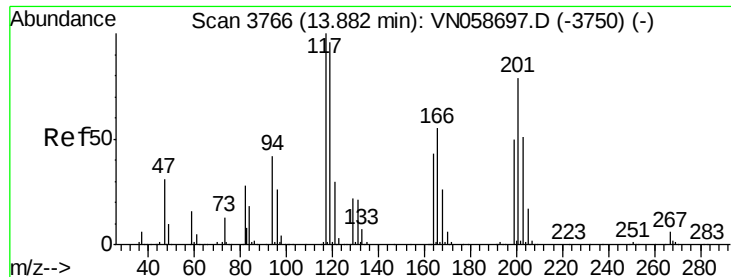


Abundance Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V

Ion 134.00 (133.70 to 134.70): V

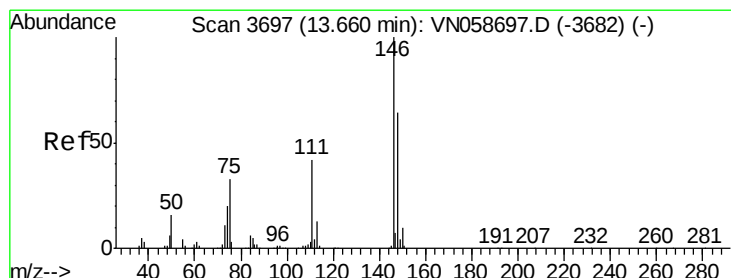
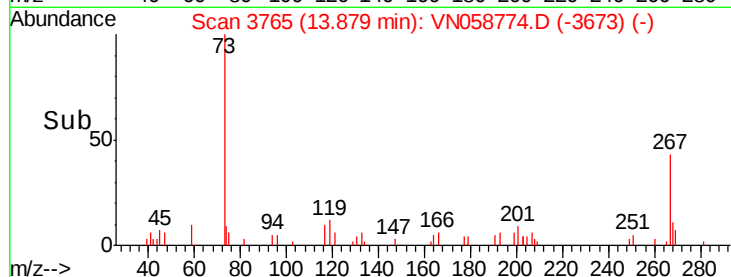
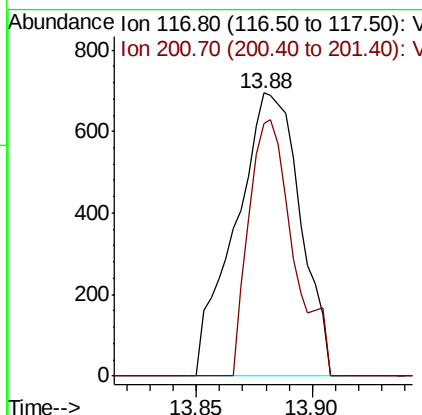
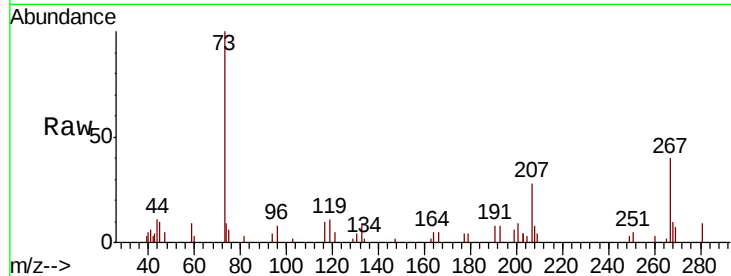




#90
Hexachloroethane
Concen: 0.567 ug/l
RT: 13.88 min Scan# 3765
Delta R.T. -0.00 min
Lab File: VN058774.D
Acq: 15 Oct 2019 12:14

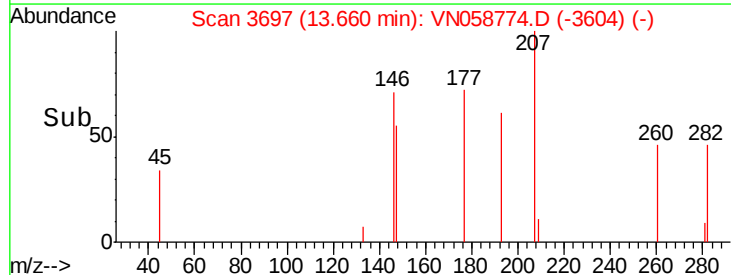
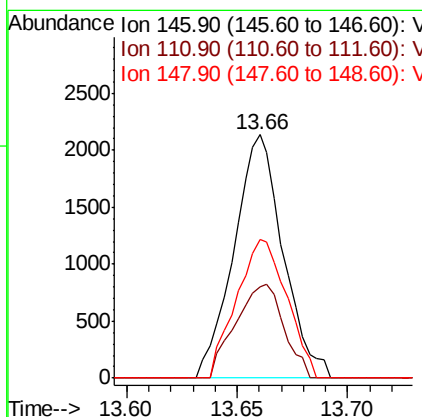
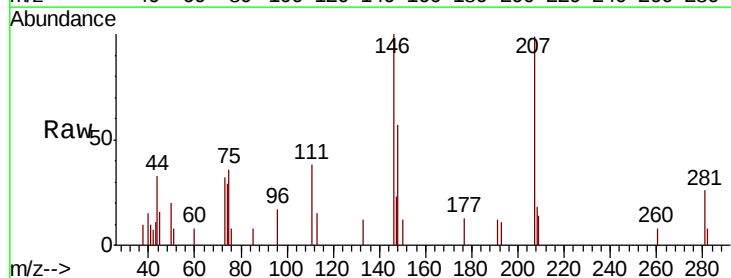
Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

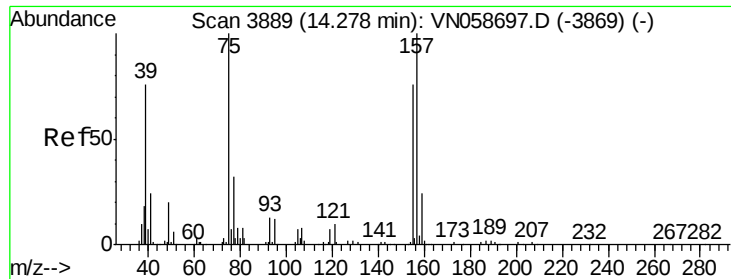
Tot Ion:117 Resp: 1351
Ion Ratio Lower Upper
117 100
201 62.5 39.6 118.7



#91
1,2-Dichlorobenzene
Concen: 0.496 ug/l
RT: 13.66 min Scan# 3697
Delta R.T. -0.00 min
Lab File: VN058774.D
Acq: 15 Oct 2019 12:14

Tgt Ion:146 Resp: 3292
Ion Ratio Lower Upper
146 100
111 38.1 21.1 63.4
148 58.1 31.8 95.3

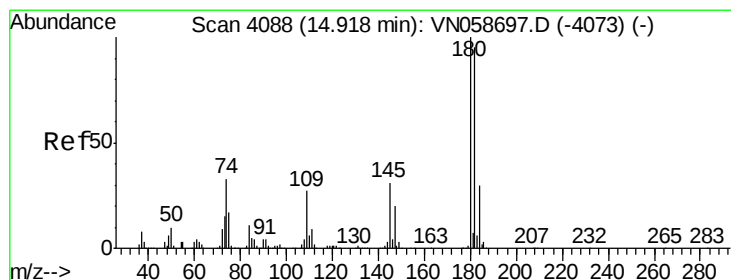
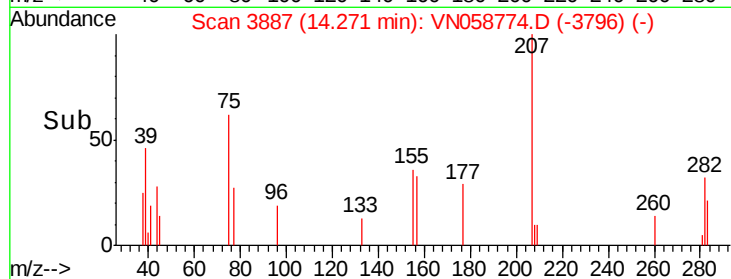
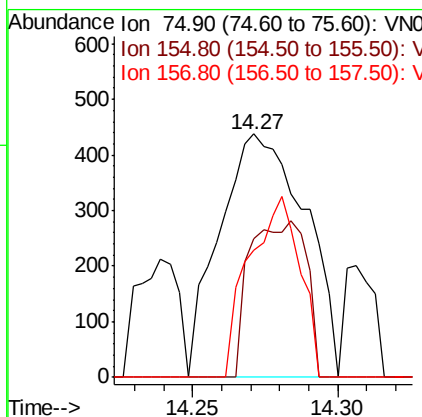
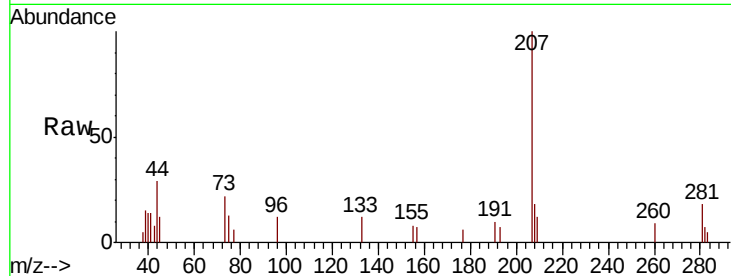




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.767 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. -0.01 min
 Lab File: VN058774.D
 Acq: 15 Oct 2019 12:14

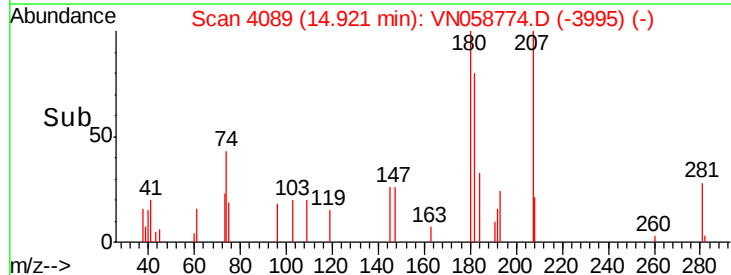
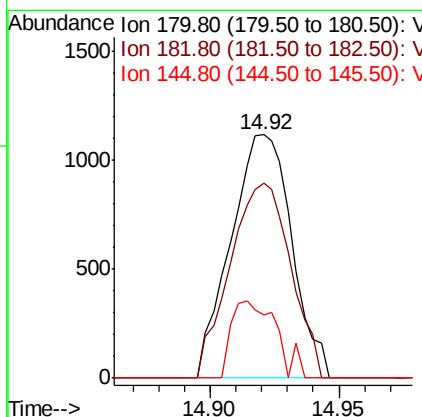
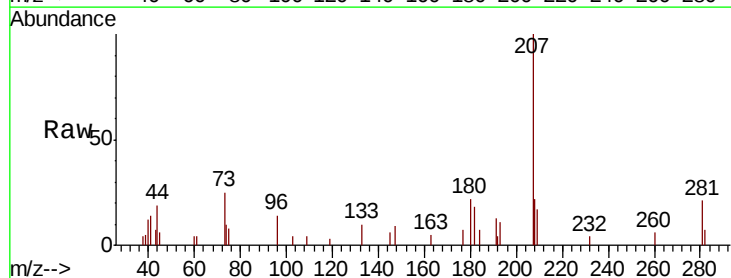
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019DL

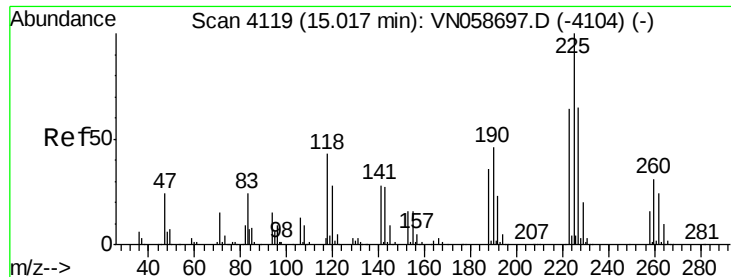
Tot Ion: 75 Resp: 897
 Ion Ratio Lower Upper
 75 100
 155 42.5 37.9 113.6
 157 44.4 49.4 148.2#



#93
 1,2,4-Trichlorobenzene
 Concen: 0.455 ug/l
 RT: 14.92 min Scan# 4089
 Delta R.T. 0.00 min
 Lab File: VN058774.D
 Acq: 15 Oct 2019 12:14

Tgt Ion:180 Resp: 1846
 Ion Ratio Lower Upper
 180 100
 182 79.7 47.4 142.2
 145 23.2 15.4 46.2





#94

Hexachlorobutadiene

Concen: 0.549 ug/l

RT: 15.01 min Scan# 4117

Delta R.T. -0.01 min

Lab File: VN058774.D

Acq: 15 Oct 2019 12:14

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019DL

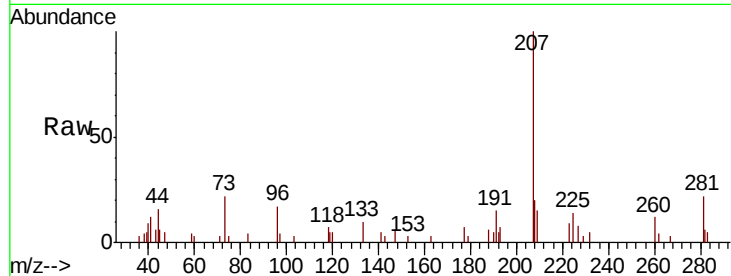
Tot Ion:225 Resp: 1172

Ion Ratio Lower Upper

225 100

223 71.9 32.3 96.8

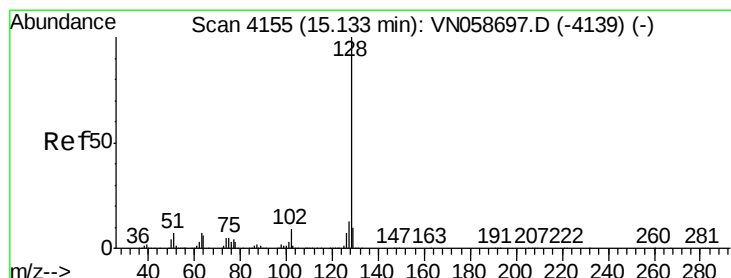
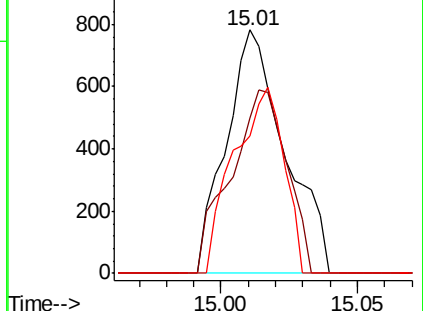
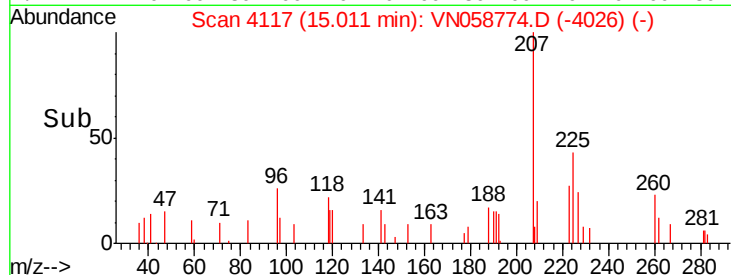
227 65.0 32.4 97.0



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 0.480 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN058774.D

Acq: 15 Oct 2019 12:14

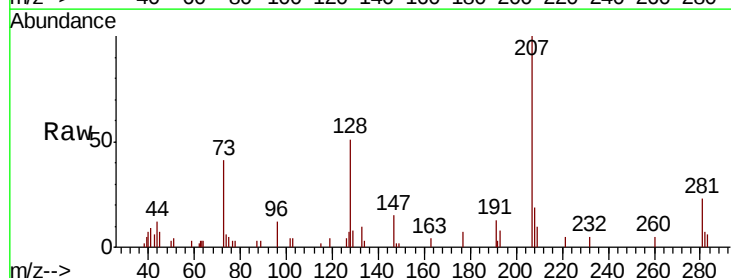
Tgt Ion:128 Resp: 5590

Ion Ratio Lower Upper

128 100

127 11.3 10.2 15.4

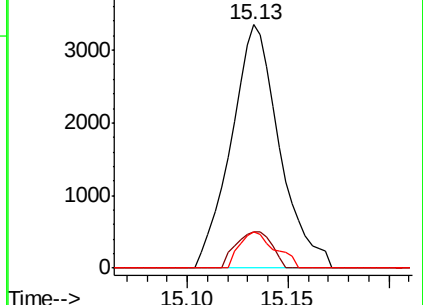
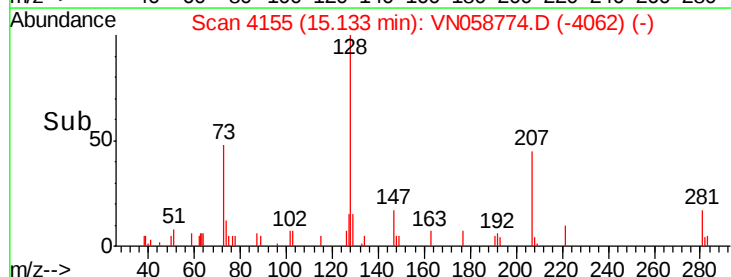
129 11.0 8.5 12.7

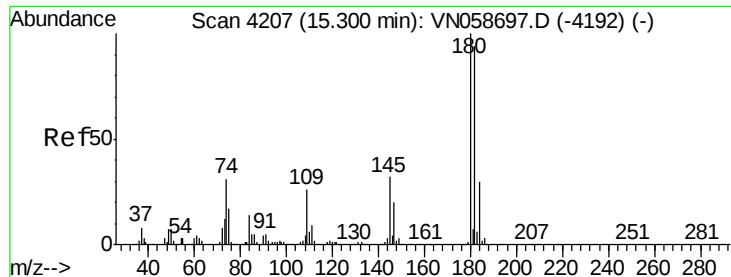


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 0.482 ug/l
 RT: 15.30 min Scan# 4207
 Delta R.T. -0.00 min
 Lab File: VN058774.D
 Acq: 15 Oct 2019 12:14

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019DL

Tot Ion:	180	Resp:	1909
Ion Ratio	Lower	Upper	
180	100		
182	99.3	47.3	142.0
145	9.7	16.2	48.6#

