

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112320\
 Data File : VX019554.D
 Acq On : 23 Nov 2020 16:39
 Operator : JC/MD
 Sample : L4798-11
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 91BR-20201118

Quant Time: Nov 24 00:33:00 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112120W.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 21 01:57:45 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	301219	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	490239	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	414615	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	175812	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	180397	46.19	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	92.38%
35) Dibromofluoromethane	5.46	113	144308	46.90	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	93.80%
50) Toluene-d8	8.70	98	565105	47.26	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	94.52%
62) 4-Bromofluorobenzene	11.12	95	191171	44.44	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	88.88%

Target Compounds

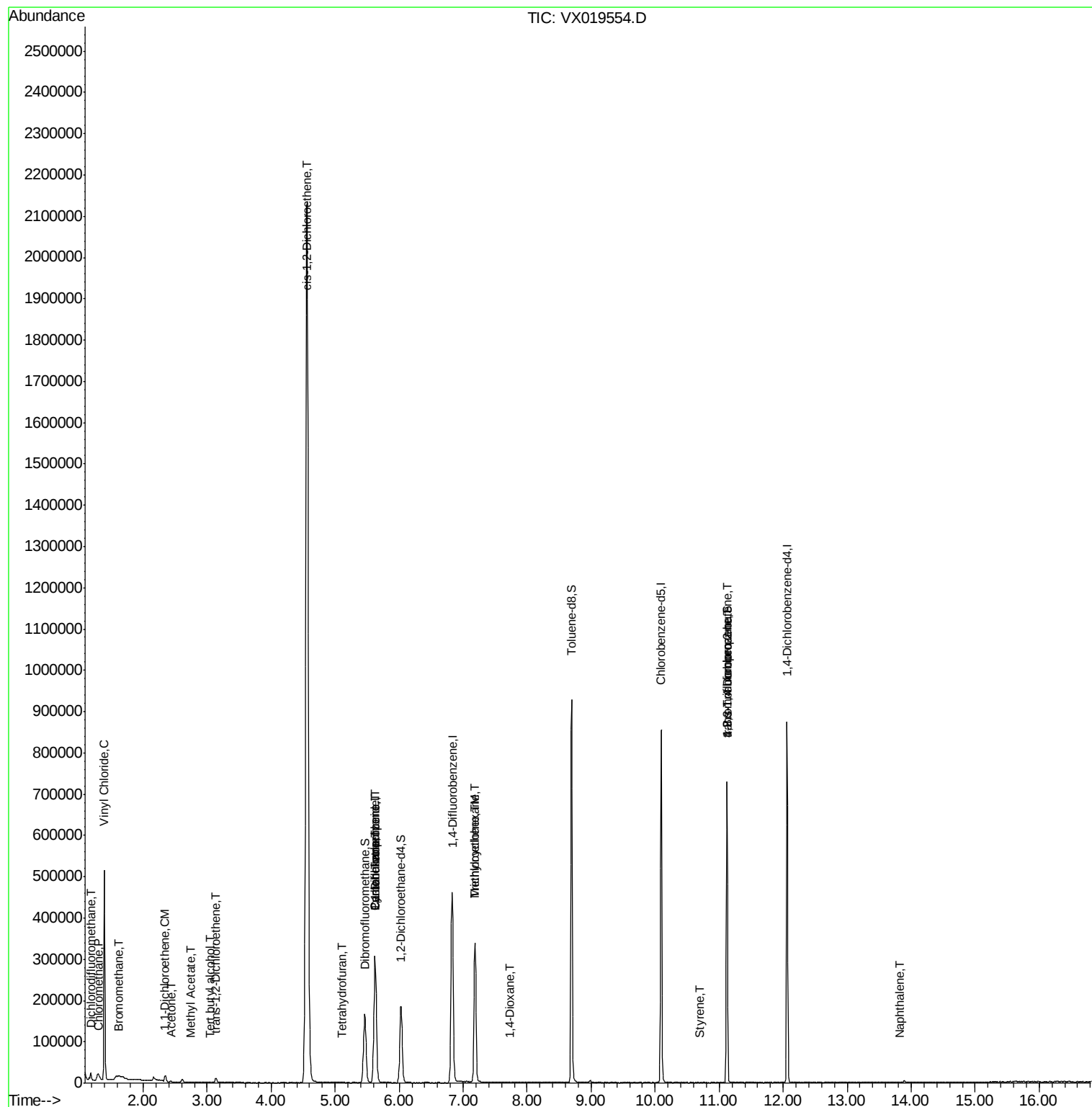
					Qvalue
2) Dichlorodifluoromethane	1.18	85	11052	3.773	ug/l 96
3) Chloromethane	1.31	50	871	0.259	ug/l # 66
4) Vinyl Chloride	1.39	62	302293	83.544	ug/l 98
5) Bromomethane	1.62	94	554	0.404	ug/l # 76
11) Tert butyl alcohol	3.05	59	285	0.386	ug/l # 73
12) 1,1-Dichloroethene	2.34	96	4632	1.549	ug/l 91
16) Acetone	2.43	43	1553	1.028	ug/l 90
18) Methyl Acetate	2.75	43	239	0.698	ug/l # 47
21) trans-1,2-Dichloroethene	3.14	96	4355	1.285	ug/l 98
27) cis-1,2-Dichloroethene	4.56	96	1445498	371.405	ug/l 88
29) Tetrahydrofuran	5.11	42	870	0.601	ug/l # 80
31) Cyclohexane	5.62	56	5516	1.086	ug/l # 1
36) 1,1-Dichloropropene	5.62	75	22384	4.870	ug/l # 49
38) Carbon Tetrachloride	5.62	117	29026	6.525	ug/l # 17
39) Methylcyclohexane	7.18	83	1650	0.308	ug/l # 1
44) Trichloroethene	7.18	130	132778	35.897	ug/l 93
49) 1,4-Dioxane	7.73	88	53	0.687	ug/l # 1
70) Styrene	10.70	104	73	1.653	ug/l # 45
76) 1,2,3-Trichloropropane	11.12	75	94748	24.694	ug/l # 37
81) trans-1,4-Dichloro-2-buten	11.12	75	94748	65.284	ug/l # 12
95) Naphthalene	13.82	128	218	2.194	ug/l # 69

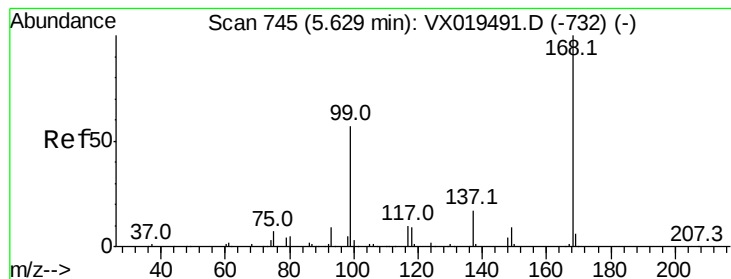
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Nov 21 01:57:45 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.00 min

Lab File: VX019554.D

Acq: 23 Nov 2020 16:39

Instrument :

MSVOA_X

ClientSampleId :

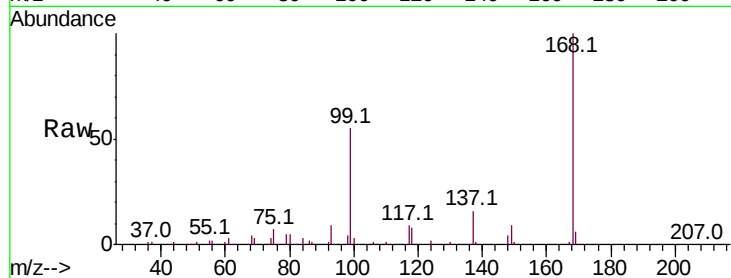
91BR-20201118

Tot Ion:168 Resp: 301219

Ion Ratio Lower Upper

168 100

99 54.8 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

120000

100000

80000

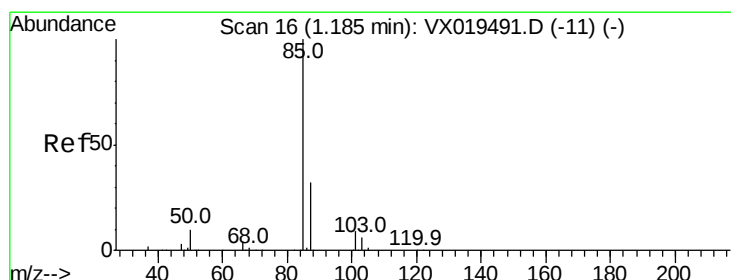
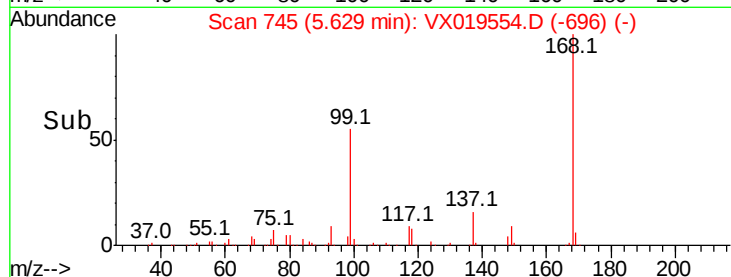
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 3.773 ug/l

RT: 1.18 min Scan# 16

Delta R.T. -0.00 min

Lab File: VX019554.D

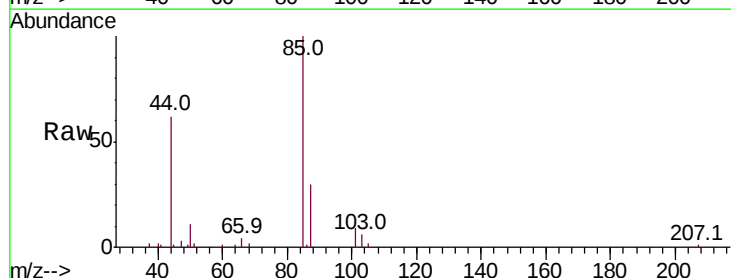
Acq: 23 Nov 2020 16:39

Tgt Ion: 85 Resp: 11052

Ion Ratio Lower Upper

85 100

87 29.9 16.0 47.9



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.18

12000

10000

8000

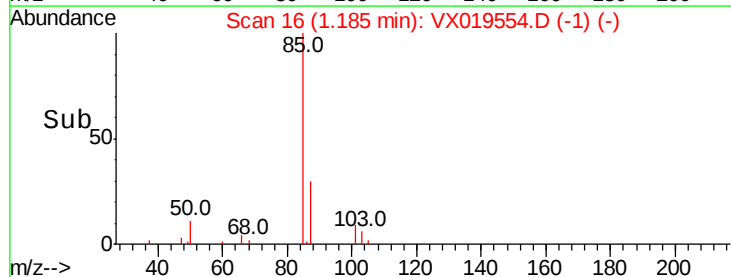
6000

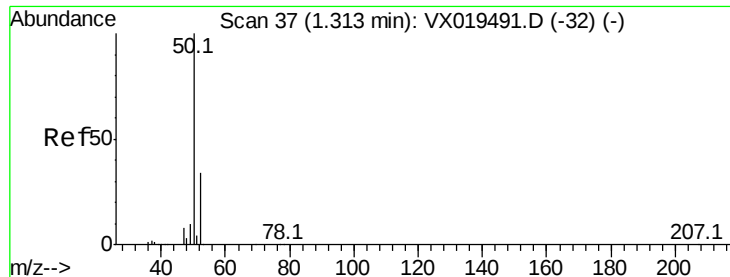
4000

2000

0

Time-->





#3

Chloromethane

Concen: 0.259 ug/l

RT: 1.31 min Scan# 37

Delta R.T. -0.00 min

Lab File: VX019554.D

Acq: 23 Nov 2020 16:39

Instrument :

MSVOA_X

ClientSampleId :

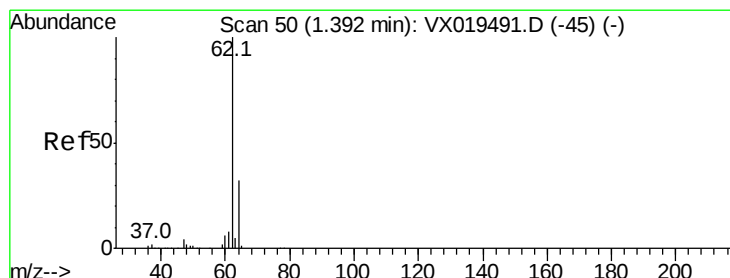
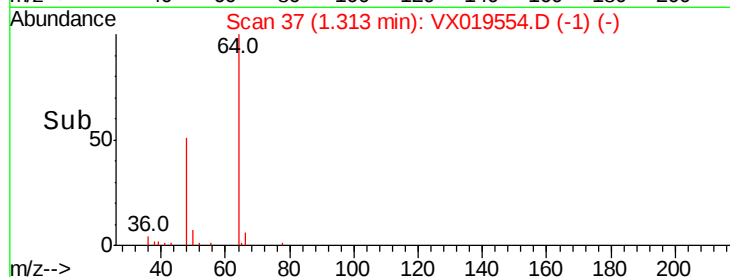
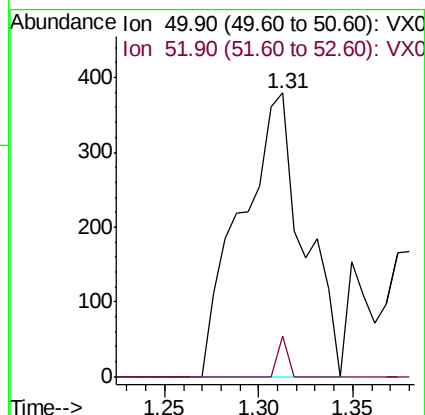
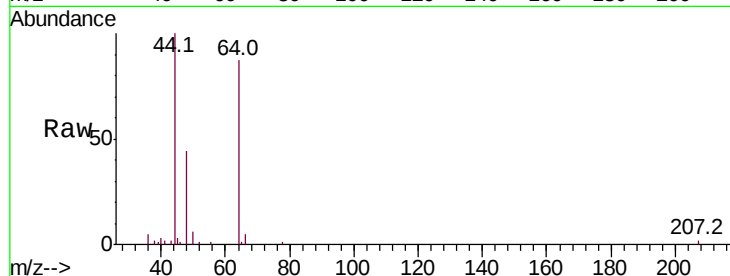
91BR-20201118

Tot Ion: 50 Resp: 871

Ion Ratio Lower Upper

50 100

52 14.2 27.0 40.6#



#4

Vinyl Chloride

Concen: 83.544 ug/l

RT: 1.39 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX019554.D

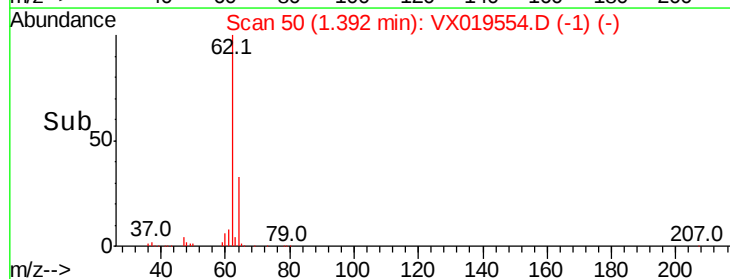
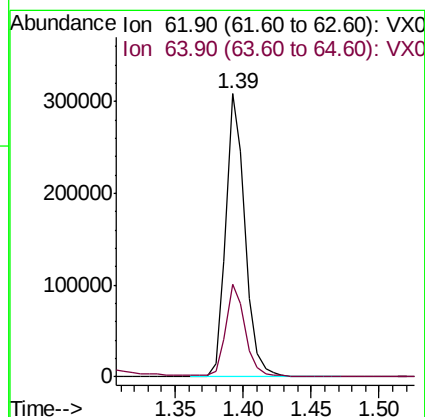
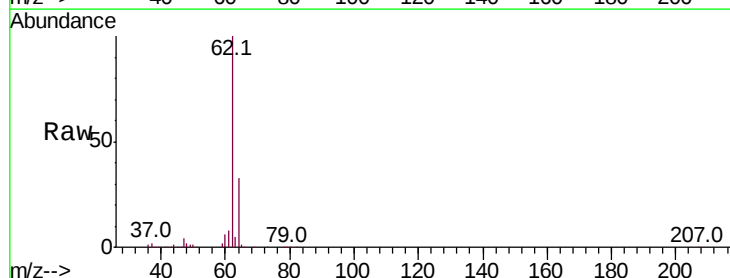
Acq: 23 Nov 2020 16:39

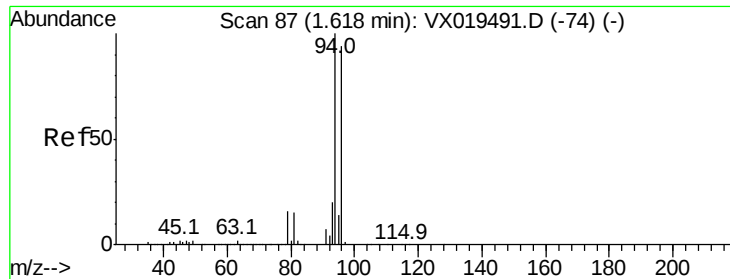
Tgt Ion: 62 Resp: 302293

Ion Ratio Lower Upper

62 100

64 32.7 25.4 38.2





#5

Bromomethane

Concen: 0.404 ug/l

RT: 1.62 min Scan# 87

Delta R.T. -0.00 min

Lab File: VX019554.D

Acq: 23 Nov 2020 16:39

Instrument :

MSVOA_X

ClientSampleId :

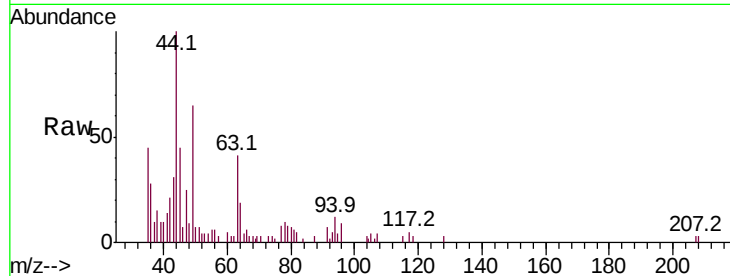
91BR-20201118

Tot Ion: 94 Resp: 554

Ion Ratio Lower Upper

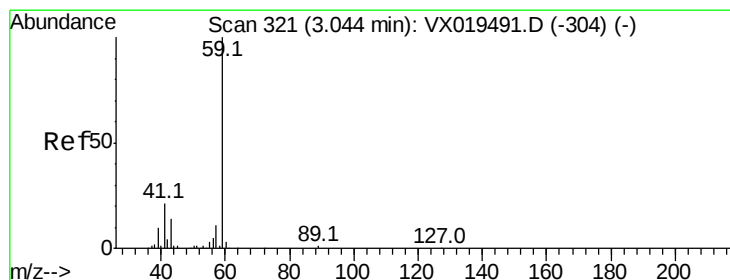
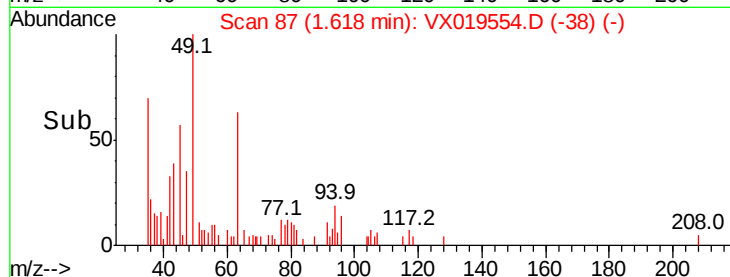
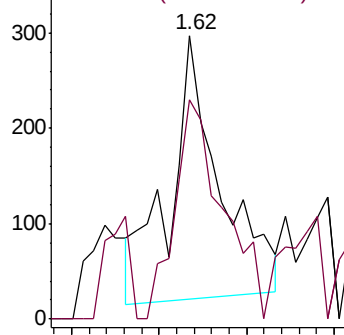
94 100

96 71.7 75.6 113.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#11

Tert butyl alcohol

Concen: 0.386 ug/l

RT: 3.05 min Scan# 322

Delta R.T. 0.01 min

Lab File: VX019554.D

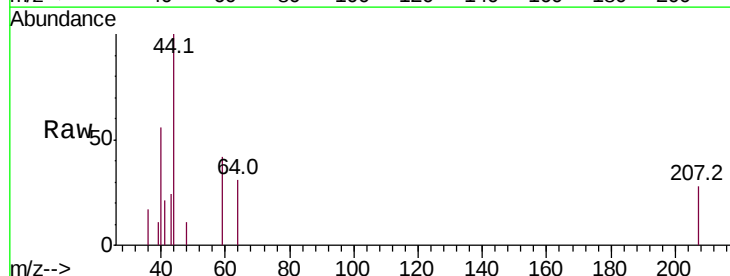
Acq: 23 Nov 2020 16:39

Tgt Ion: 59 Resp: 285

Ion Ratio Lower Upper

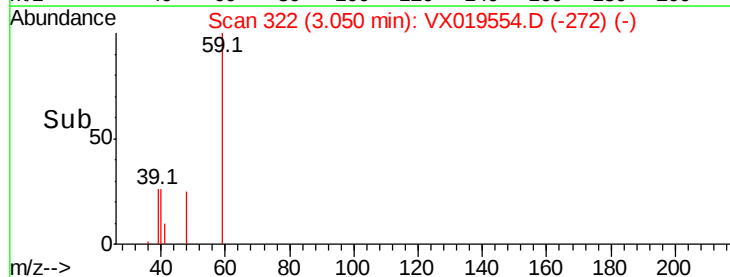
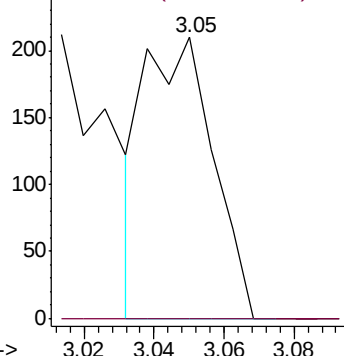
59 100

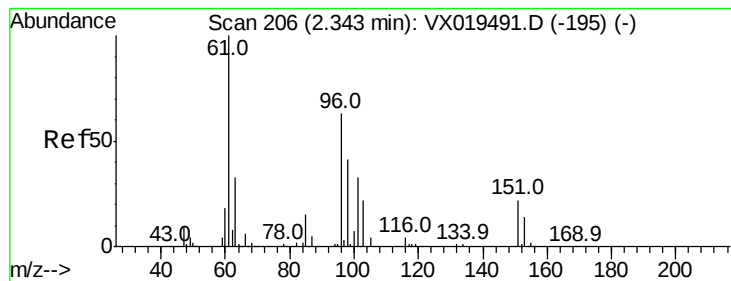
57 0.0 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#12

1,1-Dichloroethene

Concen: 1.549 ug/l

RT: 2.34 min Scan# 206

Delta R.T. -0.00 min

Lab File: VX019554.D

Acq: 23 Nov 2020 16:39

Instrument :

MSVOA_X

ClientSampleId :

91BR-20201118

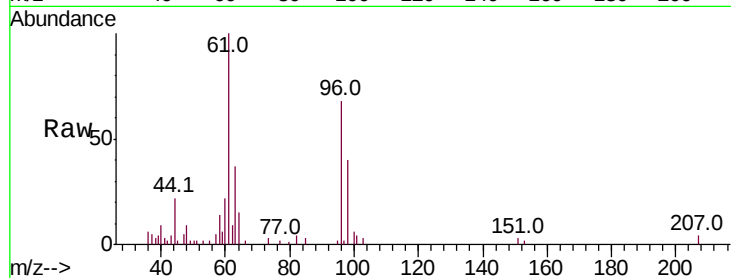
Tot Ion: 96 Resp: 4632

Ion Ratio Lower Upper

96 100

61 146.2 126.0 189.0

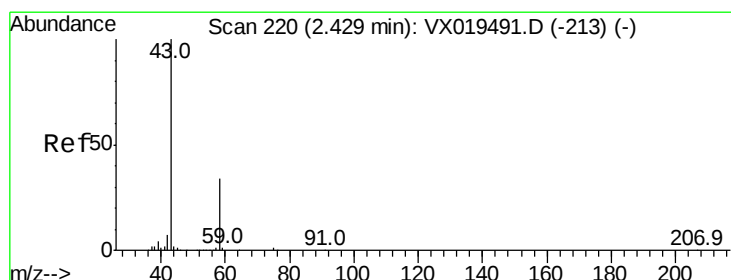
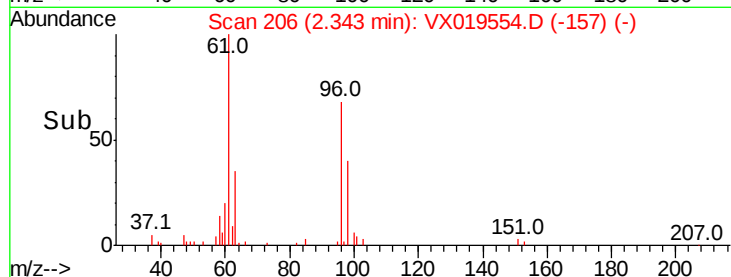
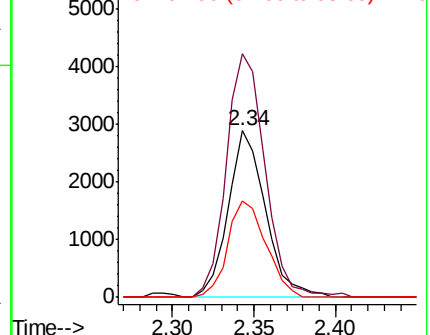
98 58.1 52.0 78.0



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#16

Acetone

Concen: 1.028 ug/l

RT: 2.43 min Scan# 220

Delta R.T. -0.00 min

Lab File: VX019554.D

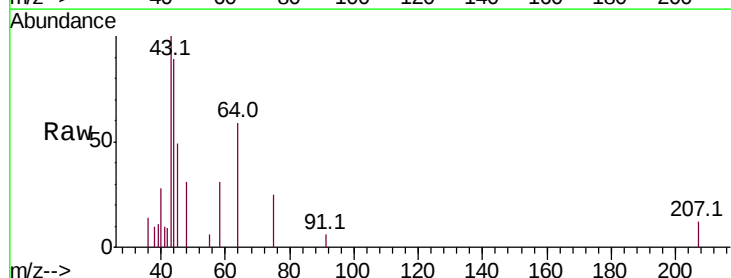
Acq: 23 Nov 2020 16:39

Tgt Ion: 43 Resp: 1553

Ion Ratio Lower Upper

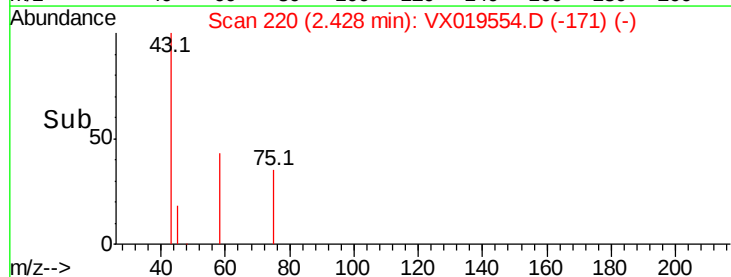
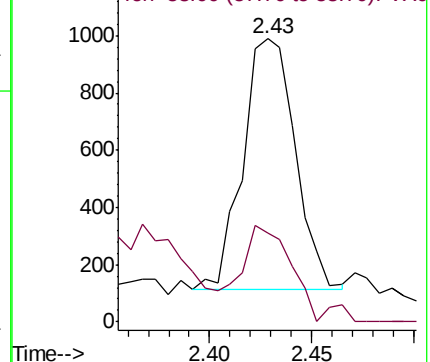
43 100

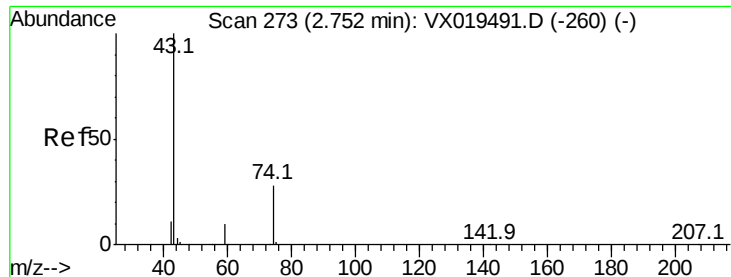
58 28.4 27.4 41.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

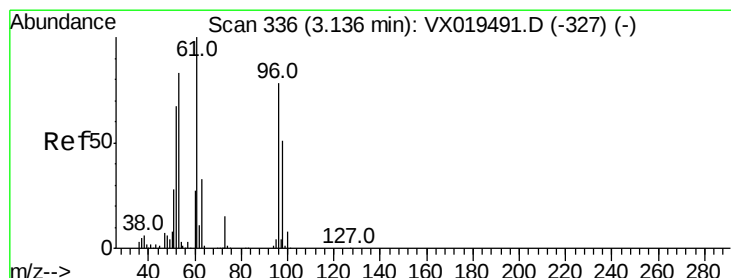
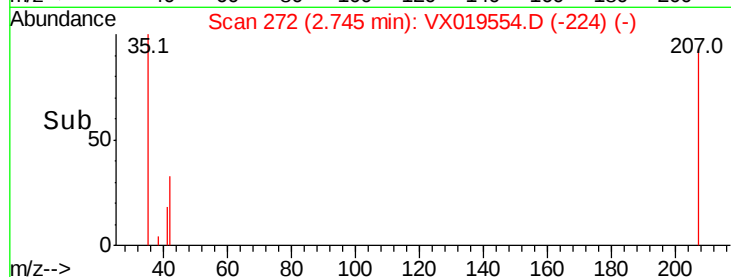
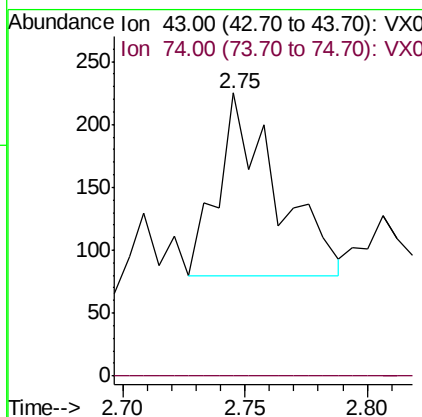
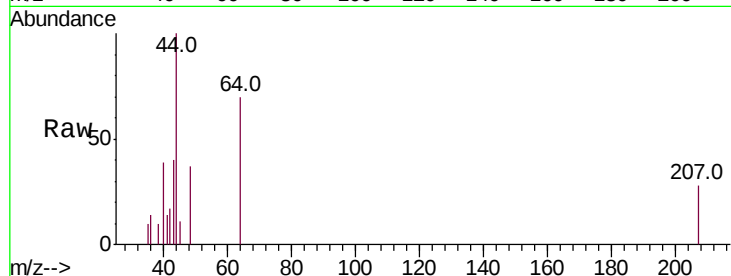




#18
Methvl Acetate
Concen: 0.698 ug/l
RT: 2.75 min Scan# 272
Delta R.T. -0.01 min
Lab File: VX019554.D
Acq: 23 Nov 2020 16:39

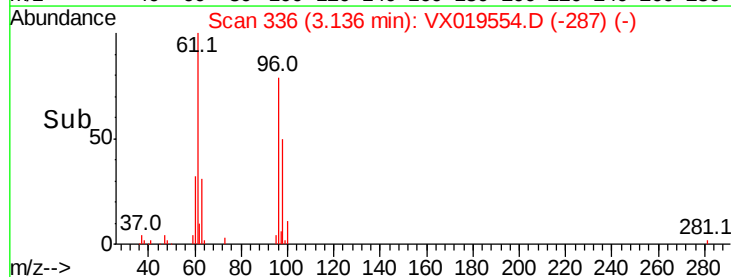
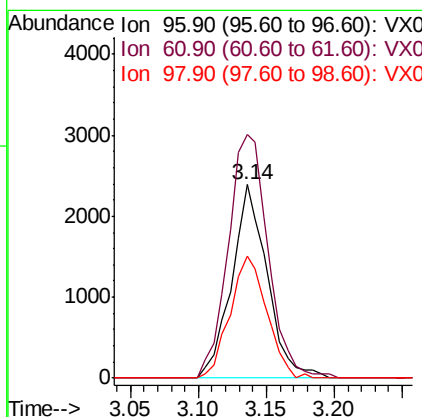
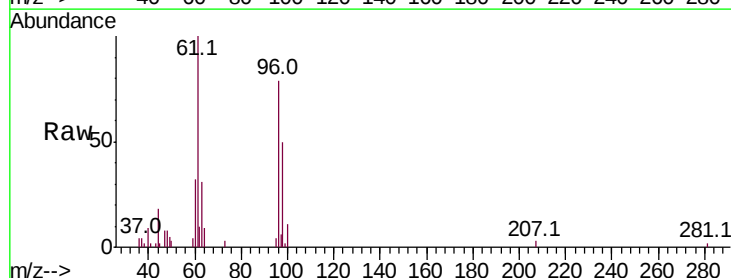
Instrument :
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ClientSampleId :
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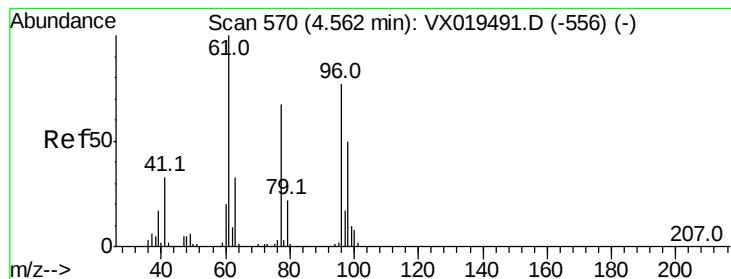
Tot Ion: 43 Resp: 239
Ion Ratio Lower Upper
43 100
74 0.0 22.2 33.4#



#21
trans-1,2-Dichloroethene
Concen: 1.285 ug/l
RT: 3.14 min Scan# 336
Delta R.T. -0.00 min
Lab File: VX019554.D
Acq: 23 Nov 2020 16:39

Tgt Ion: 96 Resp: 4355
Ion Ratio Lower Upper
96 100
61 126.1 102.9 154.3
98 62.9 52.1 78.1



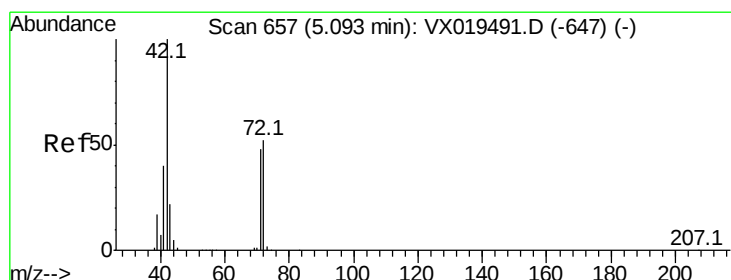
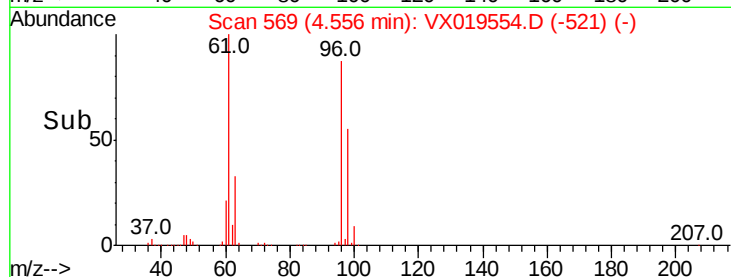
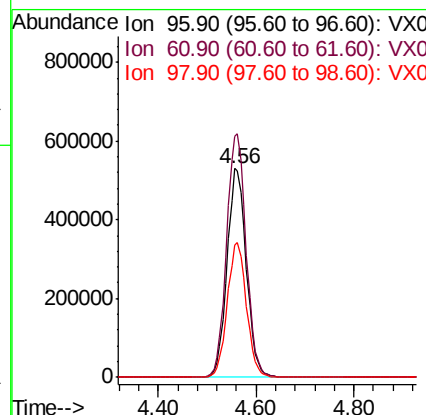
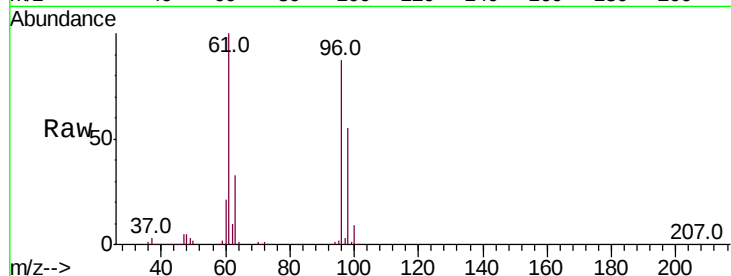


#27

cis-1,2-Dichloroethene
Concen: 371.405 ug/l
RT: 4.56 min Scan# 569
Delta R.T. -0.01 min
Lab File: VX019554.D
Acq: 23 Nov 2020 16:39

Instrument :
MSVOA_X
ClientSampleId :
91BR-20201118

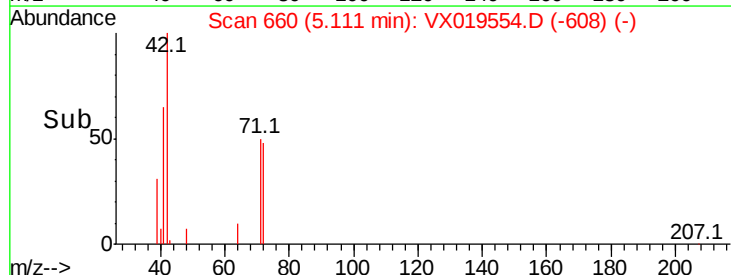
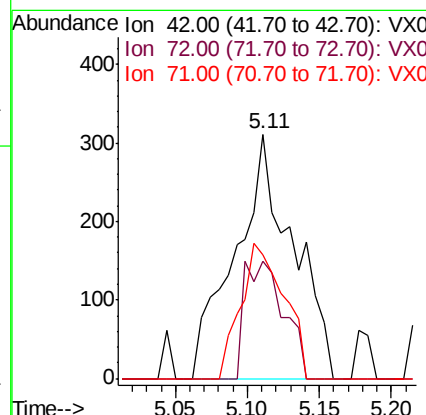
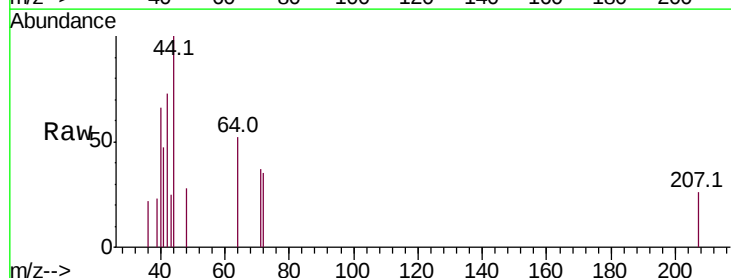
Tot Ion: 96 Resp: 1445498
Ion Ratio Lower Upper
96 100
61 118.6 0.0 279.2
98 64.3 0.0 129.8

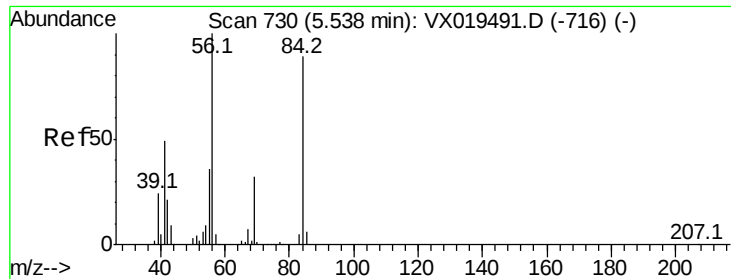


#29

Tetrahydrofuran
Concen: 0.601 ug/l
RT: 5.11 min Scan# 660
Delta R.T. 0.02 min
Lab File: VX019554.D
Acq: 23 Nov 2020 16:39

Tgt Ion: 42 Resp: 870
Ion Ratio Lower Upper
42 100
72 32.5 42.6 63.8#
71 41.3 39.0 58.6

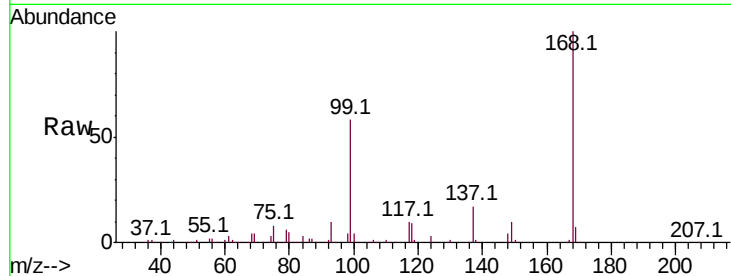




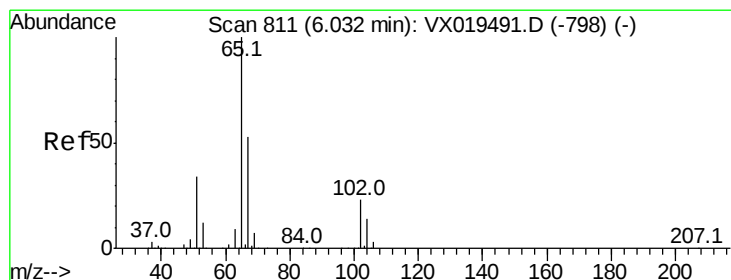
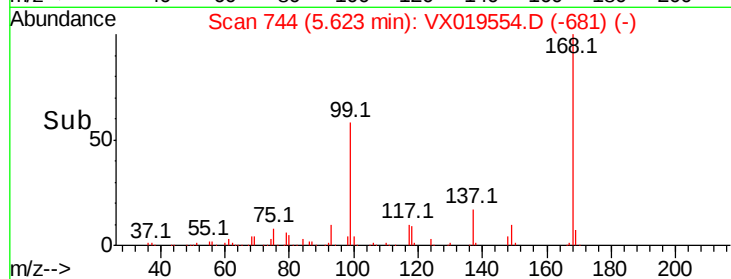
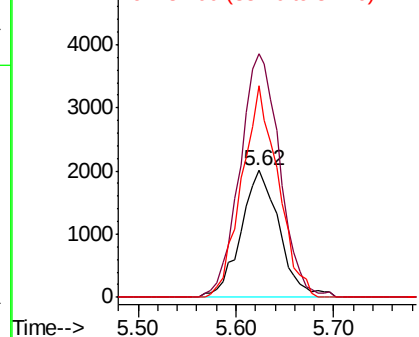
#31
Cyclohexane
Concen: 1.086 ug/l
RT: 5.62 min Scan# 744
Delta R.T. 0.09 min
Lab File: VX019554.D
Acq: 23 Nov 2020 16:39

Instrument :
MSVOA_X
ClientSampleId :
91BR-20201118

Tot Ion: 56 Resp: 5516
Ion Ratio Lower Upper
56 100
69 191.9 25.5 38.3#
84 166.6 71.1 106.7#

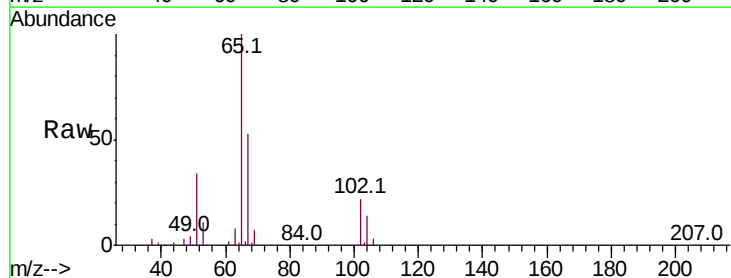


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

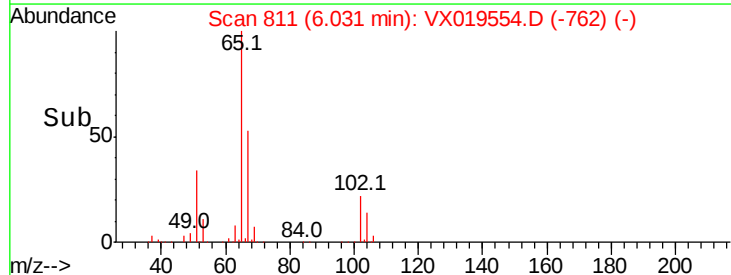
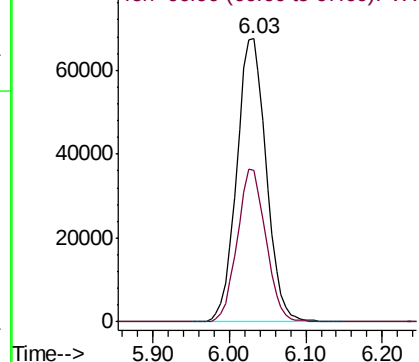


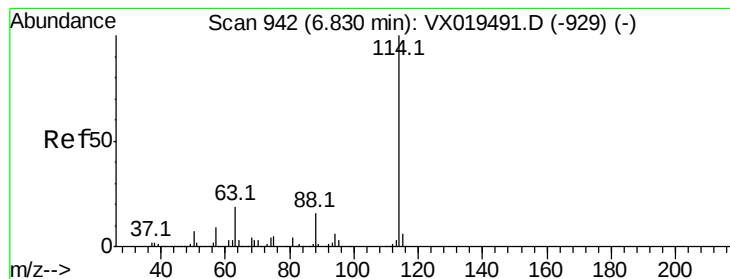
#33
1,2-Dichloroethane-d4
Concen: 46.190 ug/l
RT: 6.03 min Scan# 811
Delta R.T. -0.00 min
Lab File: VX019554.D
Acq: 23 Nov 2020 16:39

Tgt Ion: 65 Resp: 180397
Ion Ratio Lower Upper
65 100
67 52.4 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX019554.D

Acq: 23 Nov 2020 16:39

Instrument :

MSVOA_X

ClientSampleId :

91BR-20201118

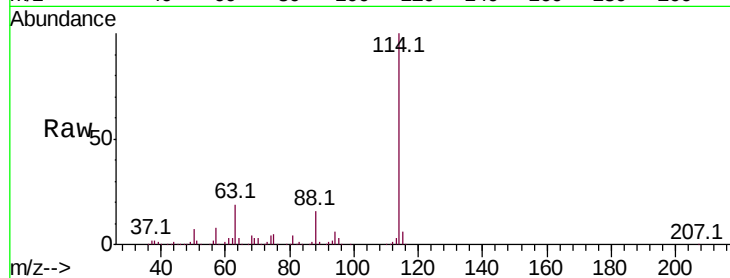
Tot Ion:114 Resp: 490239

Ion Ratio Lower Upper

114 100

63 19.3 0.0 38.8

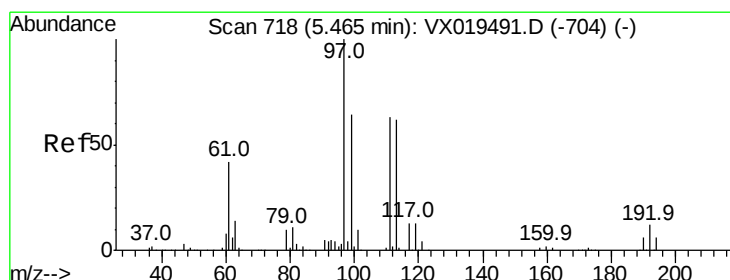
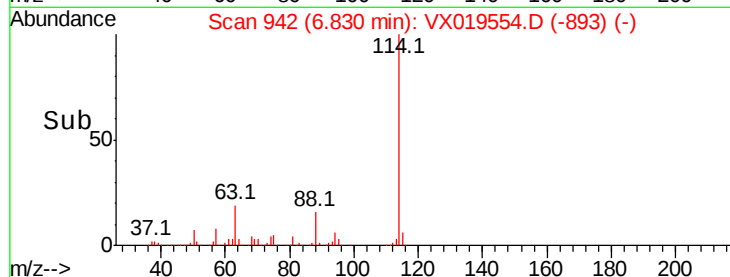
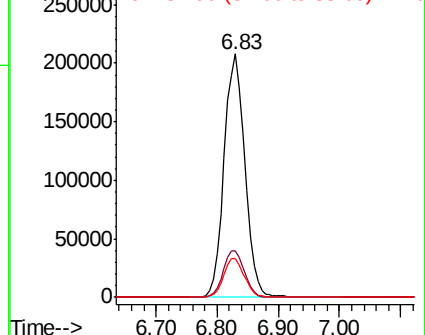
88 15.9 0.0 31.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 46.895 ug/l

RT: 5.46 min Scan# 717

Delta R.T. -0.01 min

Lab File: VX019554.D

Acq: 23 Nov 2020 16:39

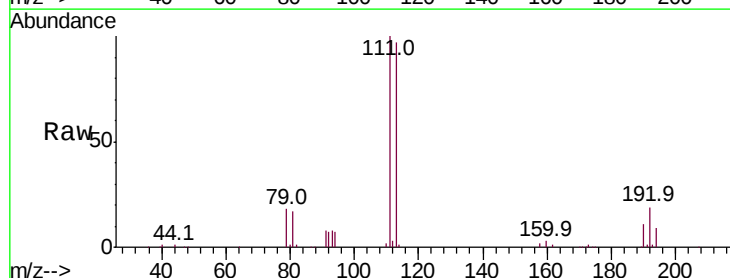
Tgt Ion:113 Resp: 144308

Ion Ratio Lower Upper

113 100

111 103.0 81.5 122.3

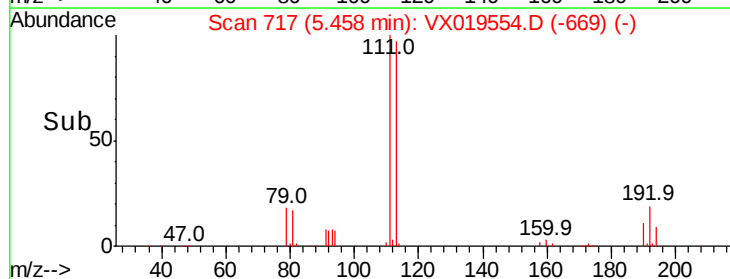
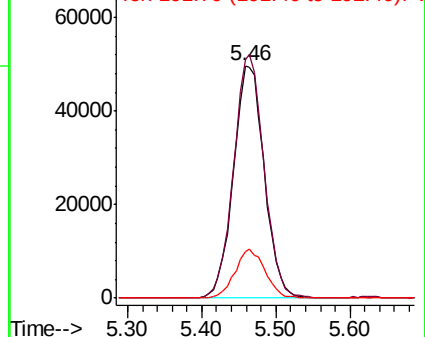
192 20.6 16.2 24.2

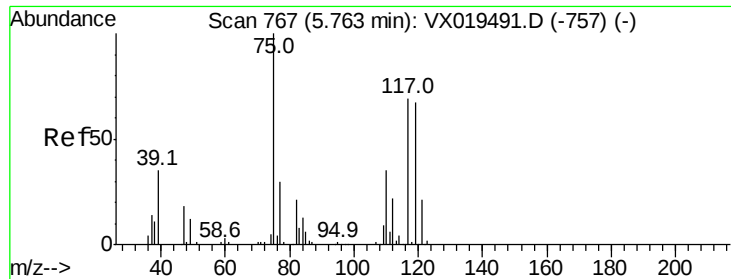


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

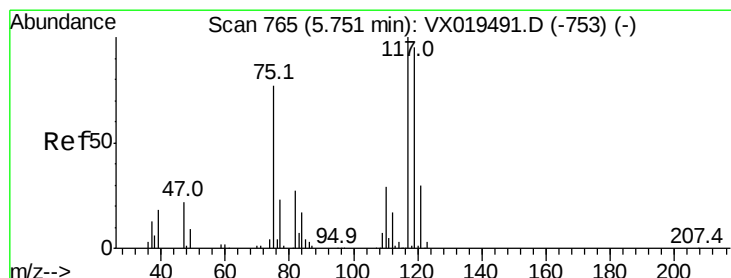
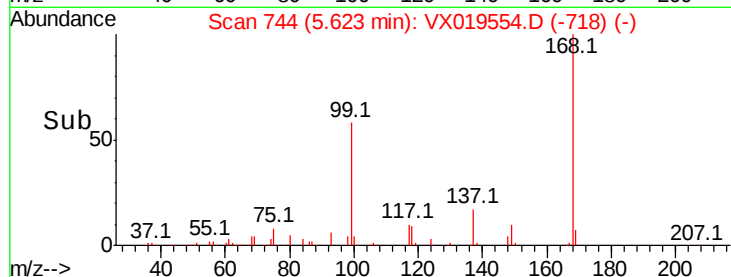
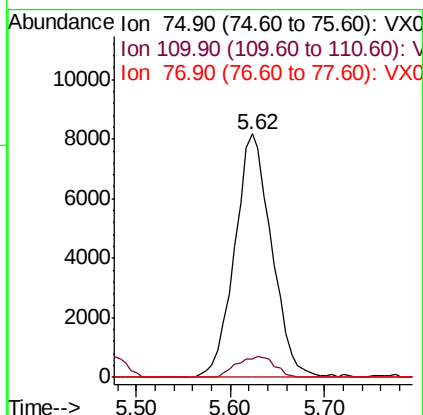
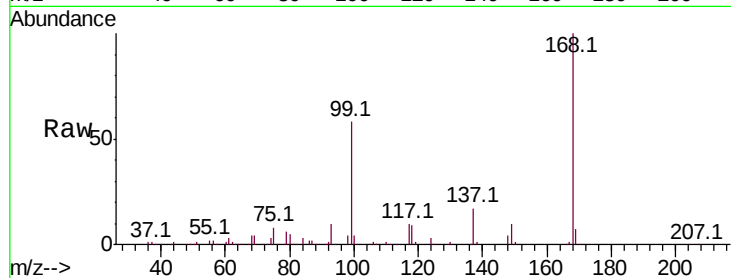




#36
 1,1-Dichloropropene
 Concen: 4.870 ug/l
 RT: 5.62 min Scan# 744
 Delta R.T. -0.14 min
 Lab File: VX019554.D
 Acq: 23 Nov 2020 16:39

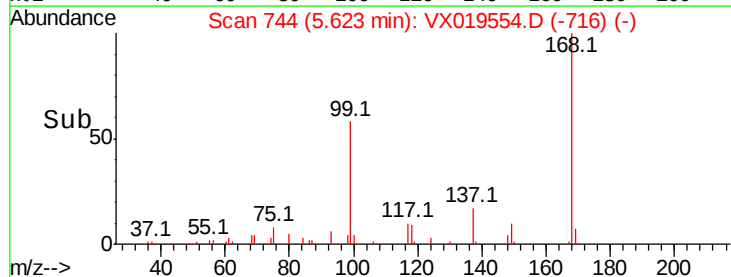
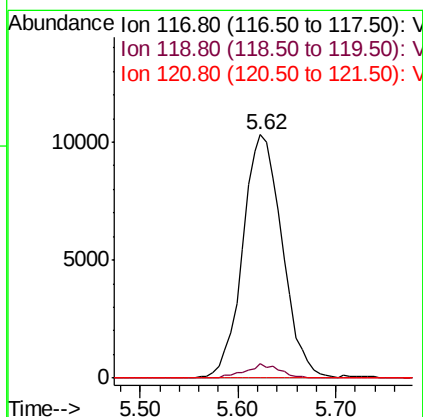
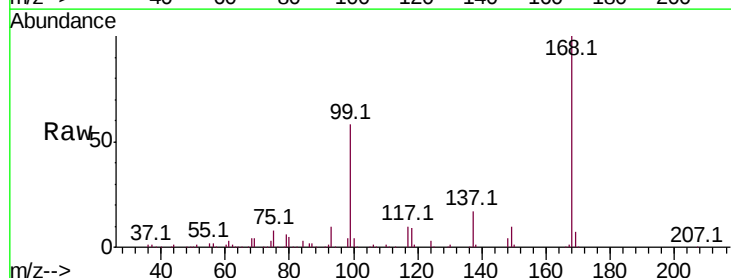
Instrument :
 MSVOA_X
 ClientSampleId :
 91BR-20201118

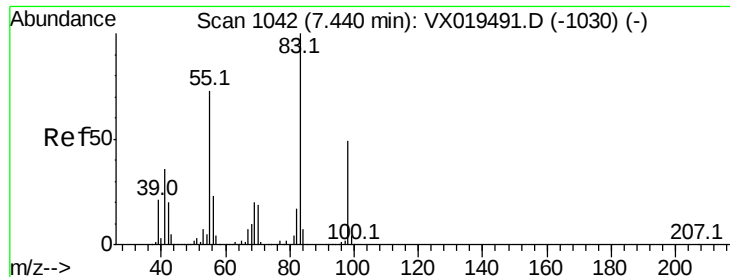
Tot Ion: 75 Resp: 22384
 Ion Ratio Lower Upper
 75 100
 110 8.8 18.1 54.3#
 77 0.0 24.2 36.4#



#38
 Carbon Tetrachloride
 Concen: 6.525 ug/l
 RT: 5.62 min Scan# 744
 Delta R.T. -0.13 min
 Lab File: VX019554.D
 Acq: 23 Nov 2020 16:39

Tgt Ion: 117 Resp: 29026
 Ion Ratio Lower Upper
 117 100
 119 6.1 75.9 113.9#
 121 0.0 24.0 36.0#





#39

Methylcyclohexane

Concen: 0.308 ug/l

RT: 7.18 min Scan# 999

Delta R.T. -0.26 min

Lab File: VX019554.D

Acq: 23 Nov 2020 16:39

Instrument :

MSVOA_X

ClientSampleId :

91BR-20201118

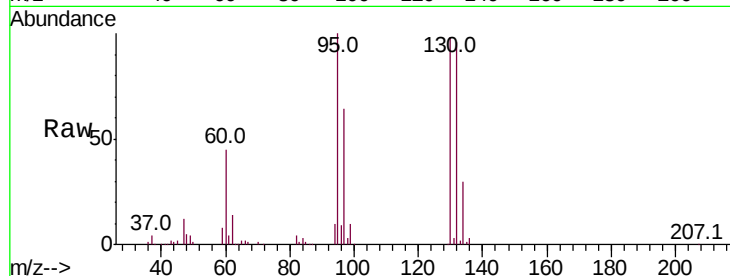
Tot Ion: 83 Resp: 1650

Ion Ratio Lower Upper

83 100

55 0.0 58.3 87.5#

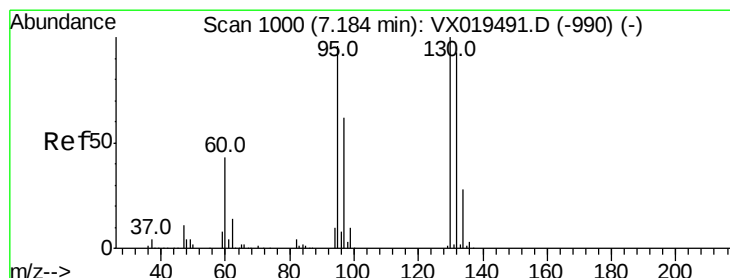
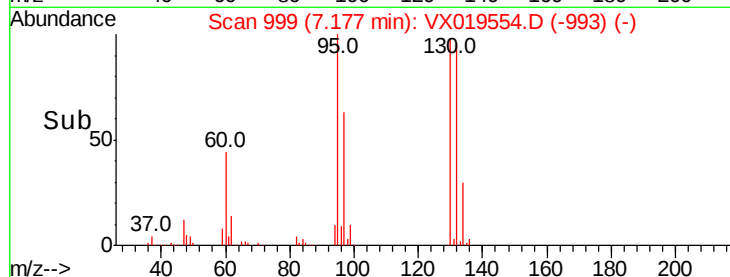
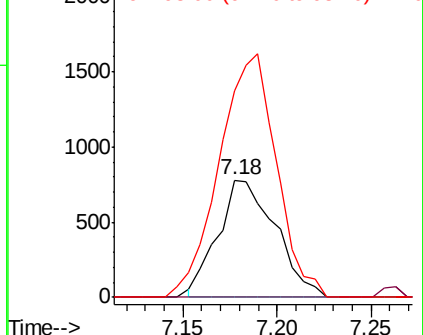
98 177.2 38.9 58.3#



Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0



#44

Trichloroethene

Concen: 35.897 ug/l

RT: 7.18 min Scan# 1000

Delta R.T. -0.00 min

Lab File: VX019554.D

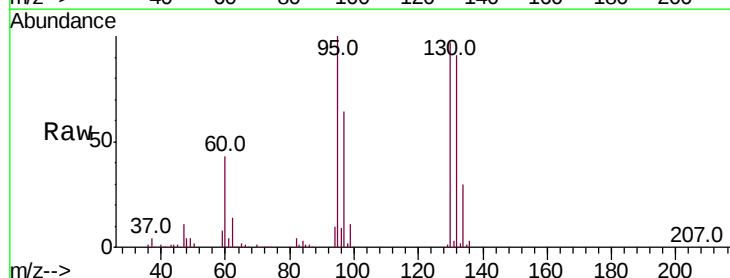
Acq: 23 Nov 2020 16:39

Tgt Ion:130 Resp: 132778

Ion Ratio Lower Upper

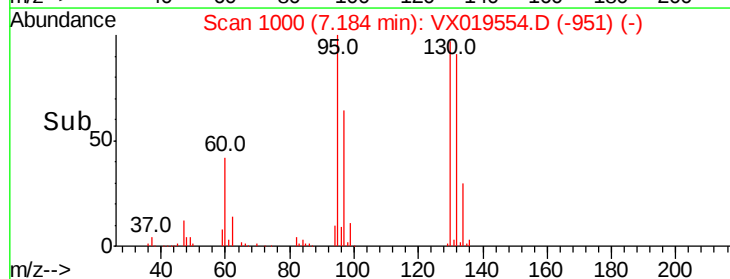
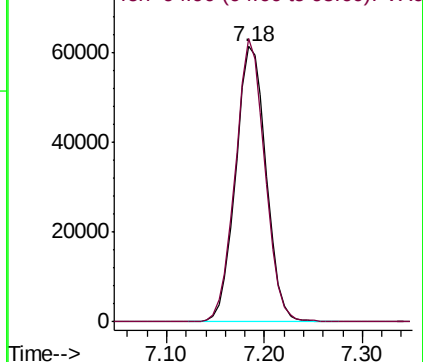
130 100

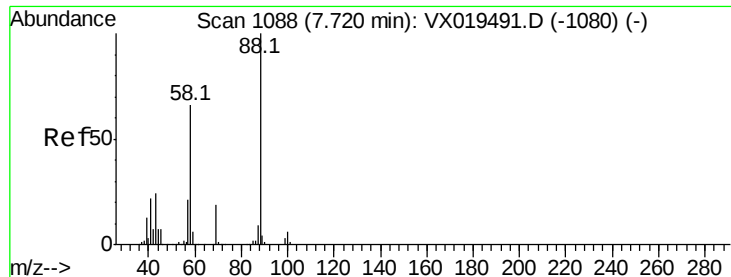
95 102.8 0.0 191.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#49

1,4-Dioxane

Concen: 0.687 ug/l

RT: 7.73 min Scan# 1090

Delta R.T. 0.01 min

Lab File: VX019554.D

Acq: 23 Nov 2020 16:39

Instrument :

MSVOA_X

ClientSampleId :

91BR-20201118

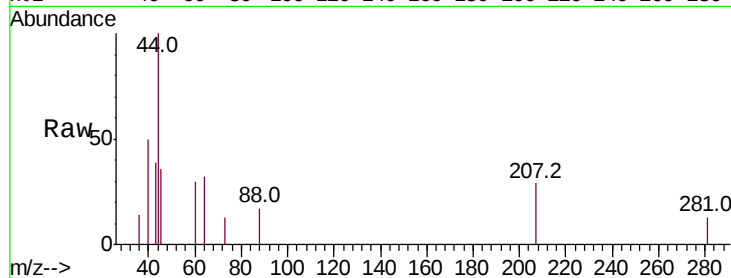
Tot Ion: 88 Resp: 53

Ion Ratio Lower Upper

88 100

43 179.2 23.8 35.6#

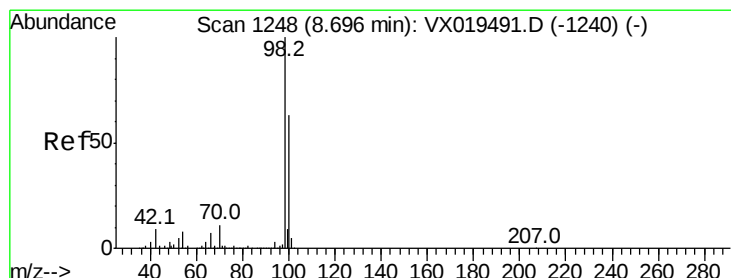
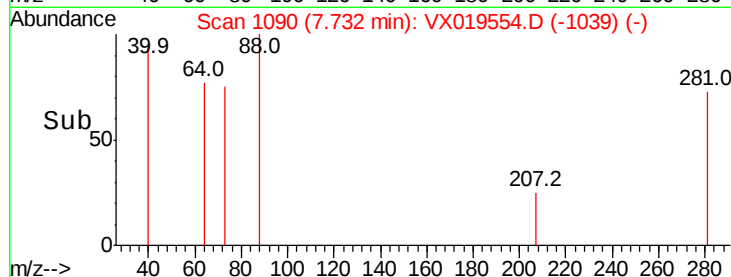
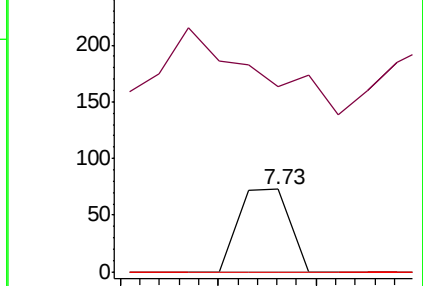
58 0.0 54.2 81.2#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#50

Toluene-d8

Concen: 47.258 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX019554.D

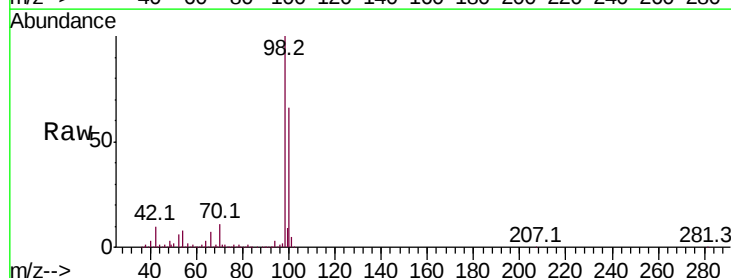
Acq: 23 Nov 2020 16:39

Tgt Ion: 98 Resp: 565105

Ion Ratio Lower Upper

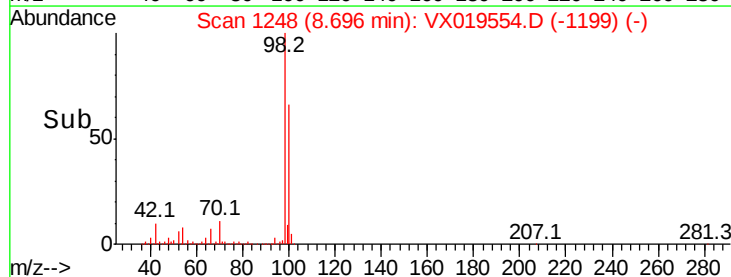
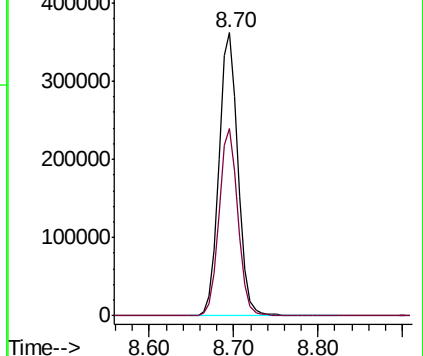
98 100

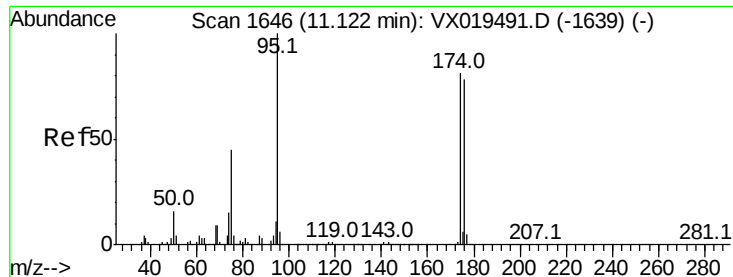
100 65.8 52.4 78.6



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 44.435 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX019554.D

Acq: 23 Nov 2020 16:39

Instrument :

MSVOA_X

ClientSampleId :

91BR-20201118

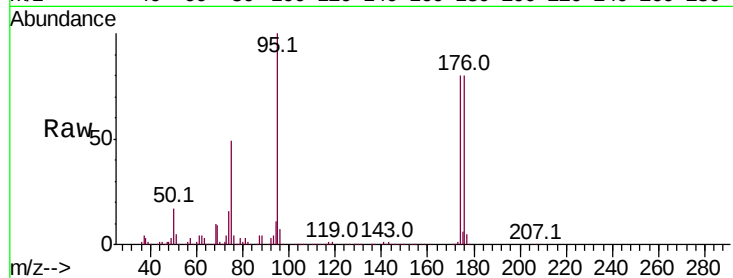
Tot Ion: 95 Resp: 191171

Ion Ratio Lower Upper

95 100

174 78.2 0.0 156.2

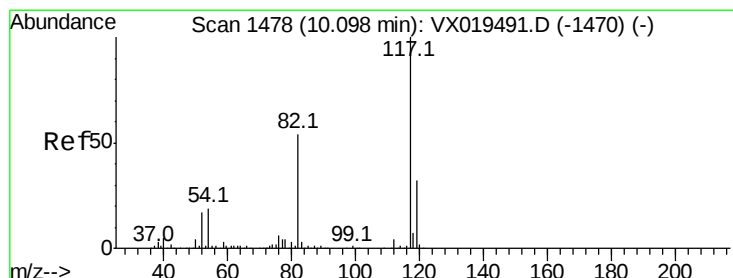
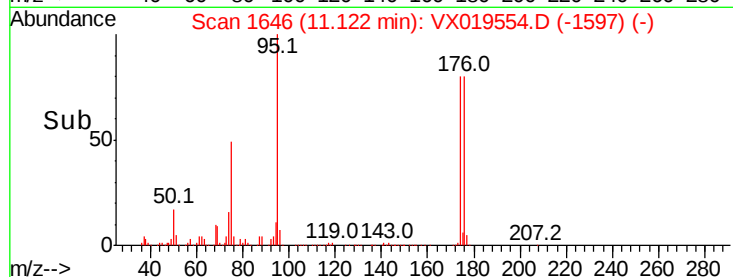
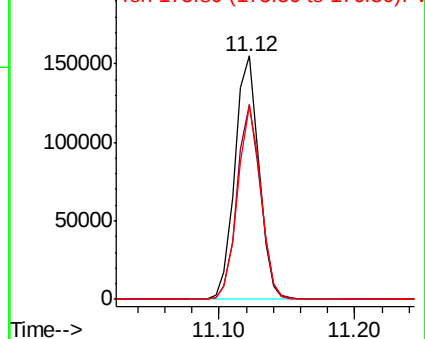
176 76.8 0.0 151.4



Abundance Ion 94.90 (94.60 to 95.60): VX019491.D (-1639) (-)

Ion 173.80 (173.50 to 174.50): VX019491.D (-1639) (-)

Ion 175.80 (175.50 to 176.50): VX019491.D (-1639) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX019554.D

Acq: 23 Nov 2020 16:39

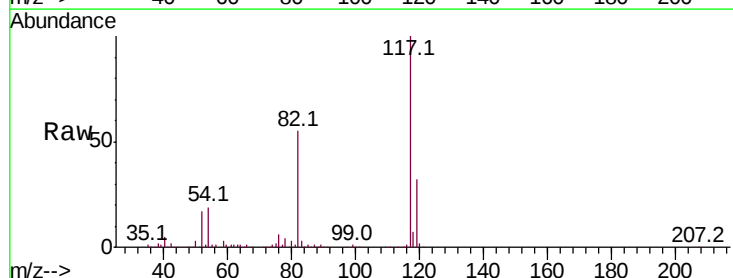
Tgt Ion: 117 Resp: 414615

Ion Ratio Lower Upper

117 100

82 54.7 43.0 64.4

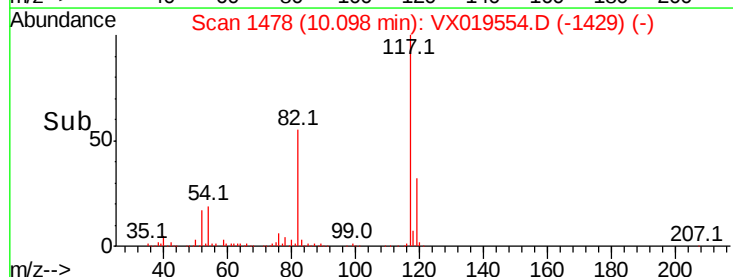
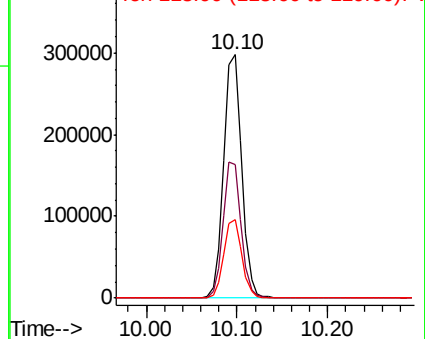
119 32.1 25.6 38.4

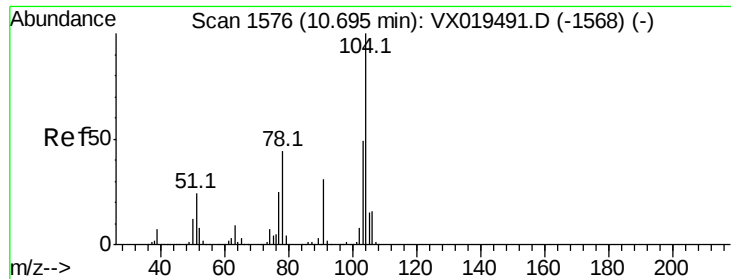


Abundance Ion 116.90 (116.60 to 117.60): VX019491.D (-1470) (-)

Ion 82.00 (81.70 to 82.70): VX019491.D (-1470) (-)

Ion 118.90 (118.60 to 119.60): VX019491.D (-1470) (-)

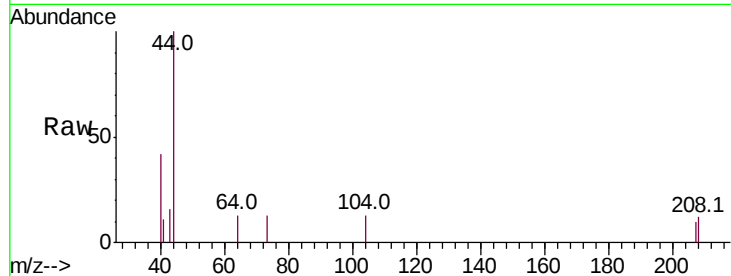




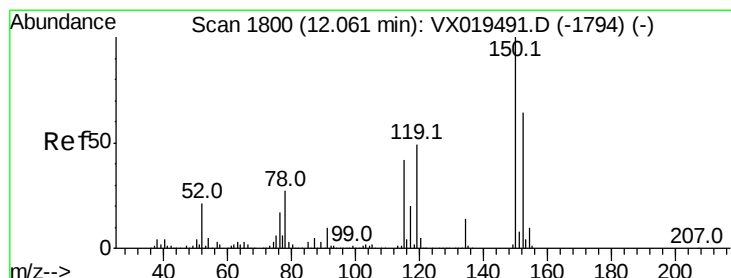
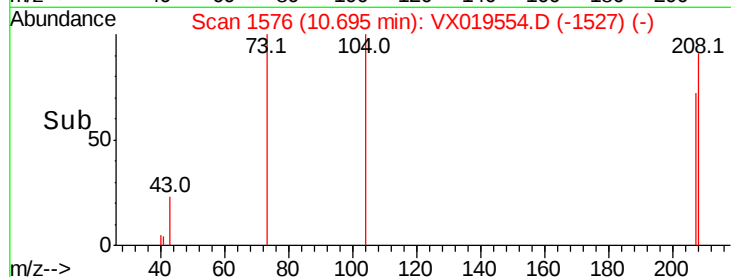
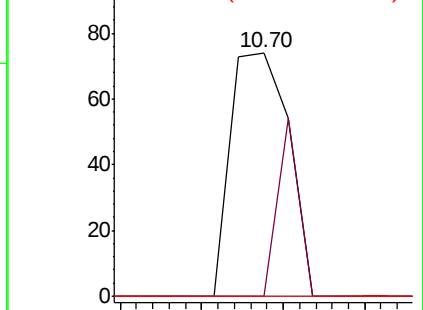
#70
Stvrene
Concen: 1.653 ug/l
RT: 10.70 min Scan# 1576
Delta R.T. 0.00 min
Lab File: VX019554.D
Acq: 23 Nov 2020 16:39

Instrument :
MSVOA_X
ClientSampleId :
91BR-20201118

Tot Ion:104 Resp: 73
Ion Ratio Lower Upper
104 100
78 27.4 39.5 59.3#
103 0.0 43.6 65.4#

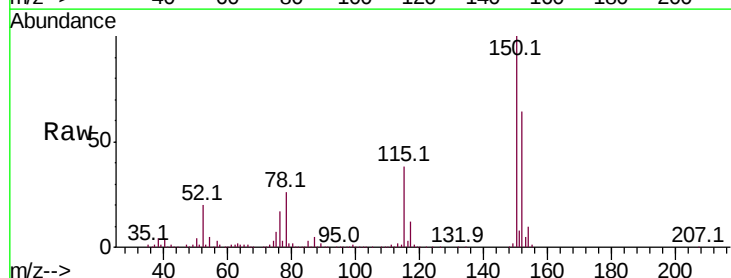


Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VX0
Ion 103.00 (102.70 to 103.70): V

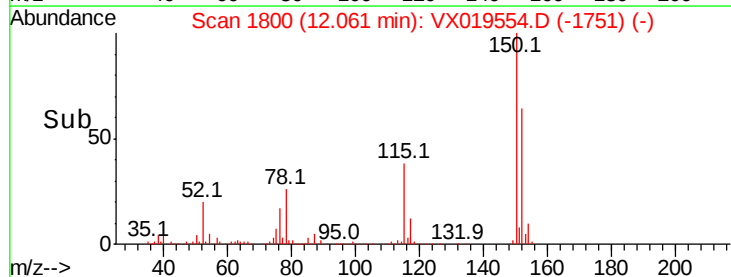
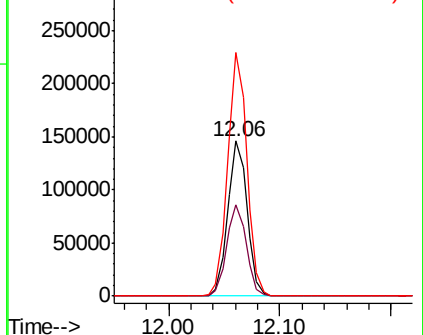


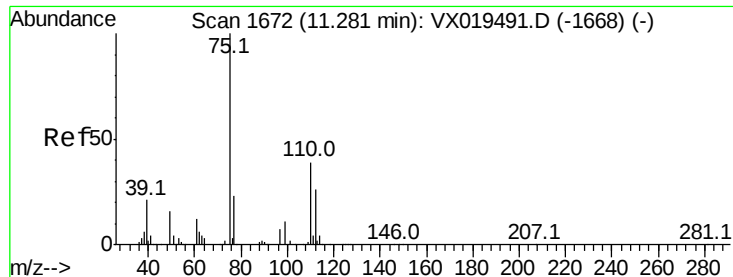
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX019554.D
Acq: 23 Nov 2020 16:39

Tgt Ion:152 Resp: 175812
Ion Ratio Lower Upper
152 100
115 59.6 41.8 125.4
150 156.4 0.0 348.2



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 24.694 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019554.D

Acq: 23 Nov 2020 16:39

Instrument :

MSVOA_X

ClientSampleId :

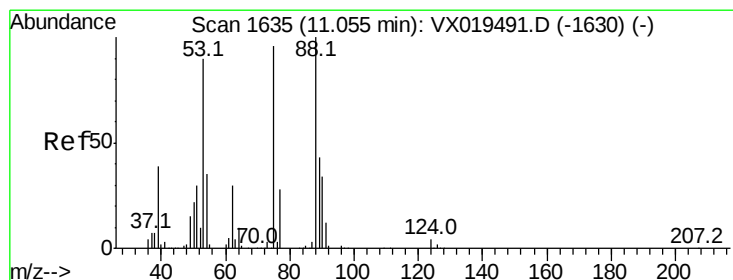
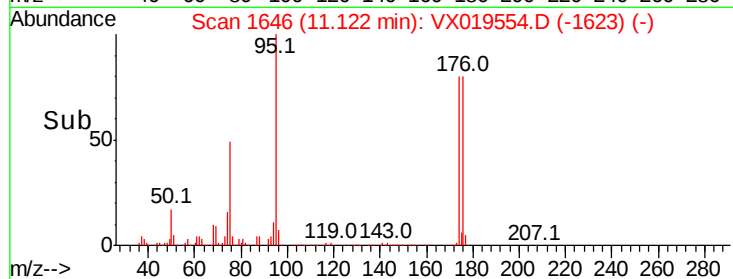
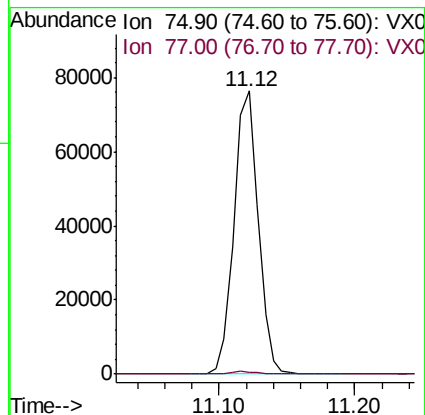
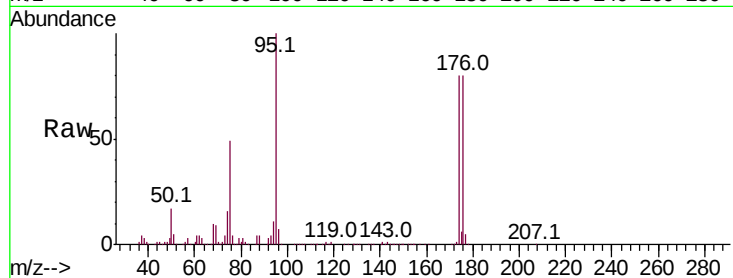
91BR-20201118

Tot Ion: 75 Resp: 94748

Ion Ratio Lower Upper

75 100

77 1.1 20.0 60.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 65.284 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX019554.D

Acq: 23 Nov 2020 16:39

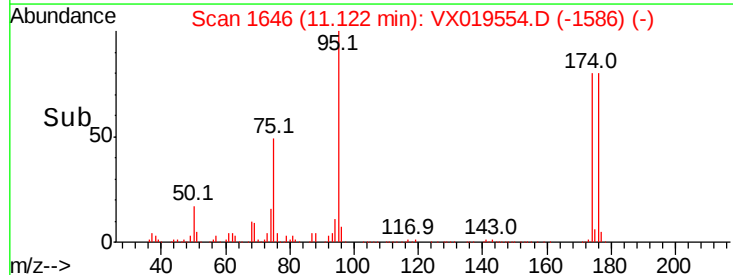
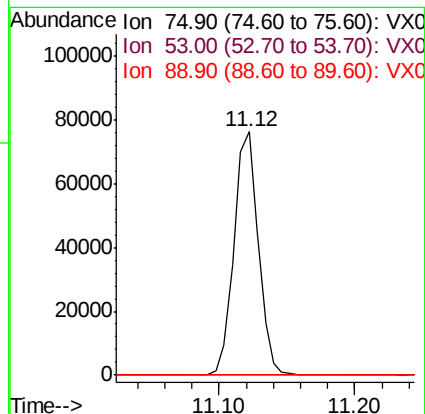
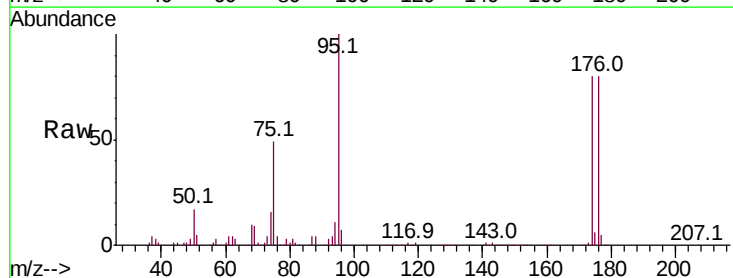
Tgt Ion: 75 Resp: 94748

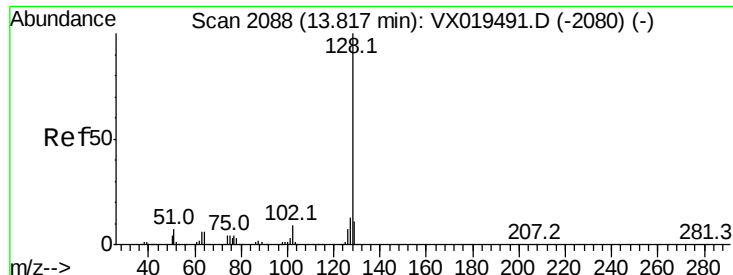
Ion Ratio Lower Upper

75 100

53 0.0 73.9 110.9#

89 0.0 37.3 55.9#





#95

Naphthalene

Concen: 2.194 ug/l

RT: 13.82 min Scan# 2088

Delta R.T. 0.00 min

Lab File: VX019554.D

Acq: 23 Nov 2020 16:39

Instrument :

MSVOA_X

ClientSampleId :

91BR-20201118

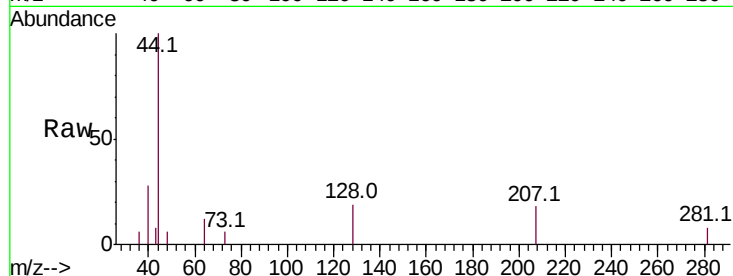
Tot Ion:128 Resp: 218

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

