

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112320\
 Data File : VX019551.D
 Acq On : 23 Nov 2020 15:28
 Operator : JC/MD
 Sample : L4798-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 45BR-20201118

Quant Time: Nov 24 00:32:20 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	302964	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	488927	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	409846	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	176746	50.00	ug/l	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4		6.03	65	180148	45.86	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	91.72%	
35) Dibromofluoromethane		5.46	113	145303	47.35	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	94.70%	
50) Toluene-d8		8.70	98	563315	47.24	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	94.48%	
62) 4-Bromofluorobenzene		11.12	95	191830	44.71	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	89.42%	

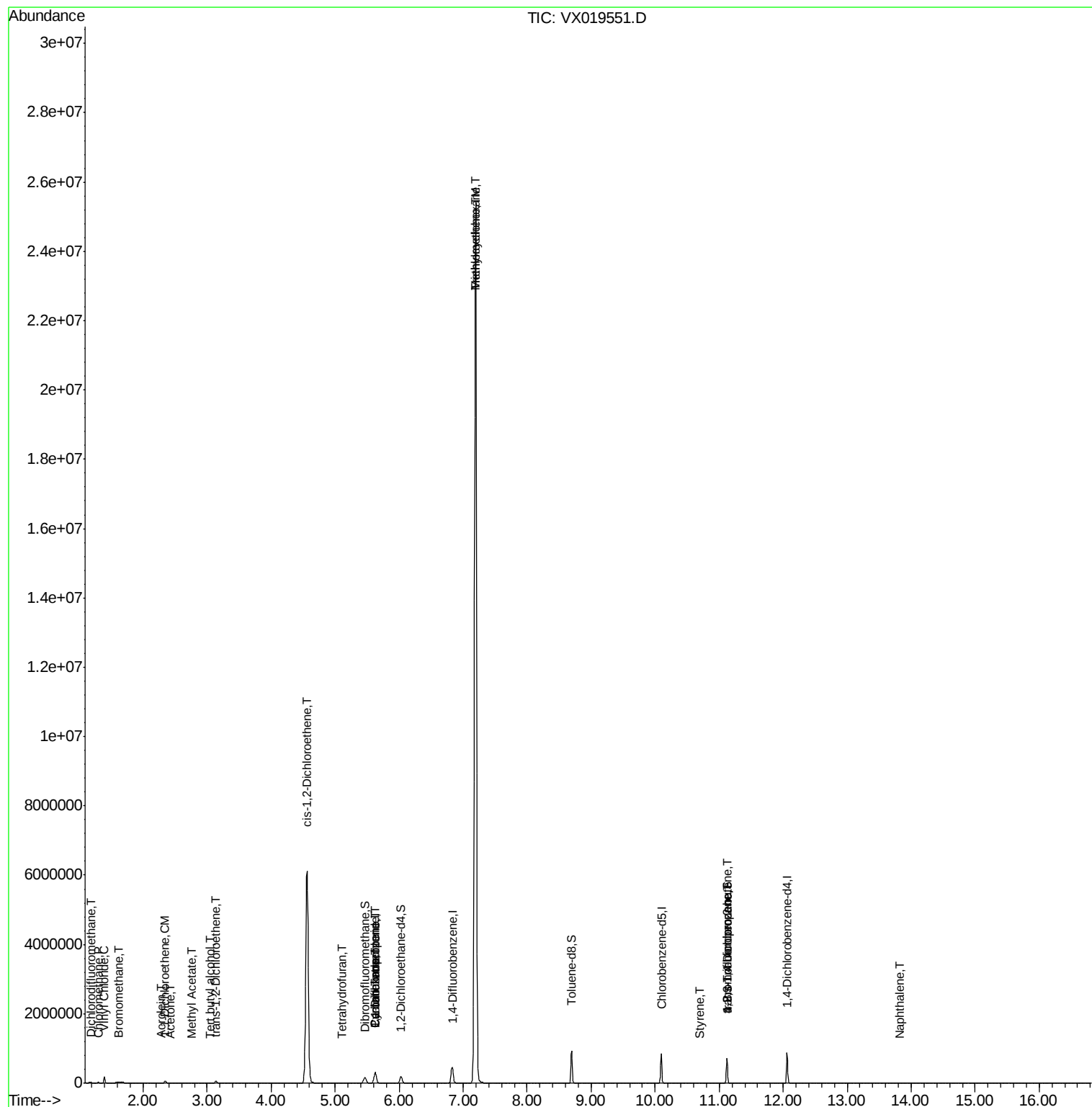
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.18	85	14798	5.023	ug/l	97
3) Chloromethane	1.31	50	691	0.204	ug/l #	84
4) Vinyl Chloride	1.39	62	109592	30.113	ug/l	99
5) Bromomethane	1.62	94	448	0.325	ug/l #	80
11) Tert butyl alcohol	3.04	59	369	0.496	ug/l #	73
12) 1,1-Dichloroethene	2.34	96	16765	5.574	ug/l	95
13) Acrolein	2.28	56	218	0.436	ug/l	89
16) Acetone	2.43	43	1511	0.995	ug/l	92
18) Methyl Acetate	2.76	43	382	0.736	ug/l #	47
21) trans-1,2-Dichloroethene	3.14	96	21890	6.423	ug/l	98
27) cis-1,2-Dichloroethene	4.56	96	4131960	1055.549	ug/l	88
29) Tetrahydrofuran	5.10	42	2466	1.694	ug/l #	77
31) Cyclohexane	5.62	56	5880	1.151	ug/l #	1
36) 1,1-Dichloropropene	5.62	75	22165	4.836	ug/l #	49
38) Carbon Tetrachloride	5.63	117	29570	6.665	ug/l #	16
39) Methylcyclohexane	7.20	83	126423	23.688	ug/l #	1
44) Trichloroethene	7.20	130	10038995	2721.339	ug/l	96
70) Styrene	10.69	104	133	1.659	ug/l #	26
76) 1,2,3-Trichloropropane	11.12	75	94166	24.413	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	94166	64.589	ug/l #	12
95) Naphthalene	13.82	128	291	2.199	ug/l #	69

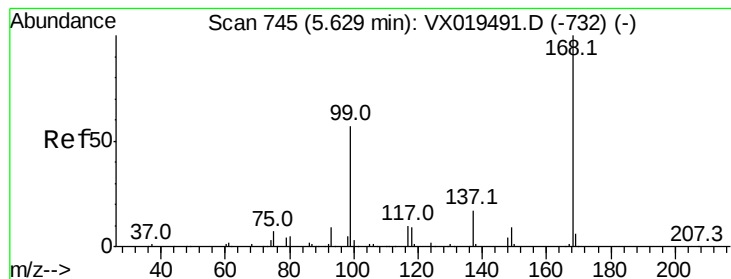
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX112320\
Data File : VX019551.D
Acq On : 23 Nov 2020 15:28
Operator : JC/MD
Sample : L4798-06
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
45BR-20201118

Quant Time: Nov 24 00:32:20 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X112120W.M
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: VX019551.D

Acq: 23 Nov 2020 15:28

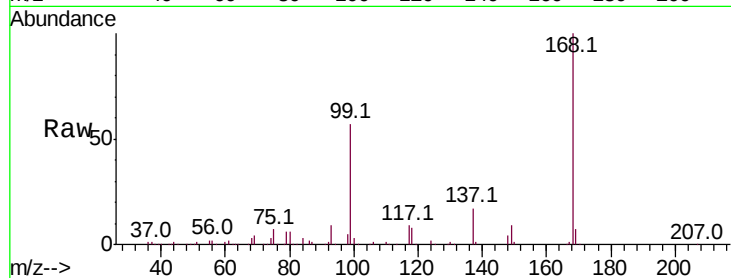
Instrument :
MSVOA_X
ClientSampleId :
45BR-20201118

Tot Ion:168 Resp: 302964

Ion Ratio Lower Upper

168 100

99 56.5 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

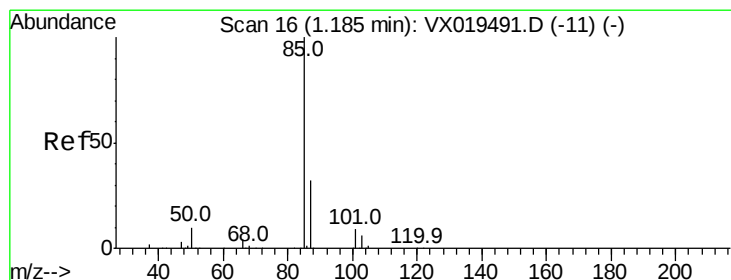
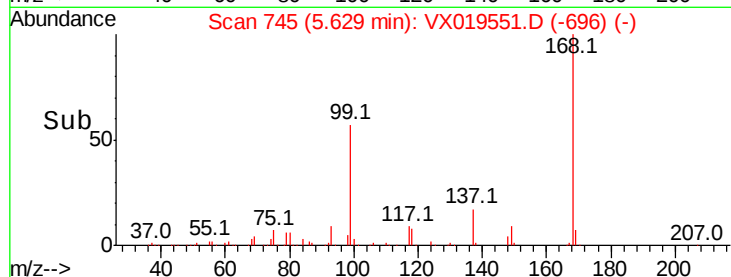
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 5.023 ug/l

RT: 1.18 min Scan# 16

Delta R.T. -0.00 min

Lab File: VX019551.D

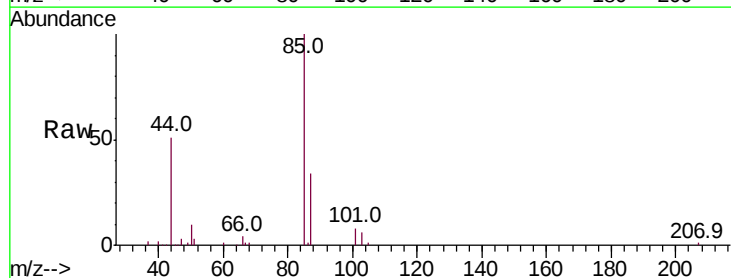
Acq: 23 Nov 2020 15:28

Tgt Ion: 85 Resp: 14798

Ion Ratio Lower Upper

85 100

87 33.5 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

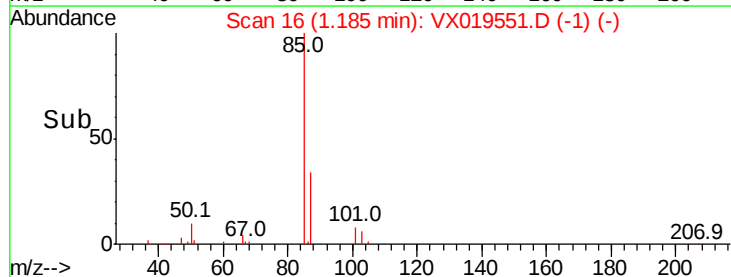
15000

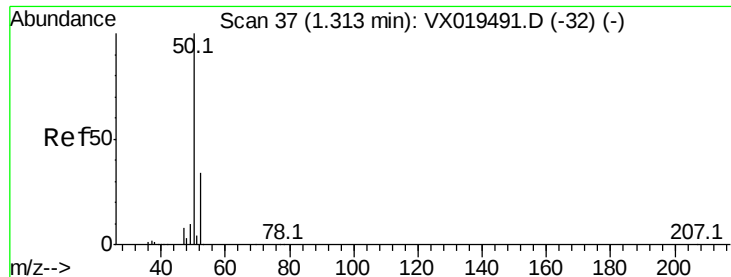
10000

5000

0

Time-->





#3

Chloromethane

Concen: 0.204 ug/l

RT: 1.31 min Scan# 37

Delta R.T. -0.00 min

Lab File: VX019551.D

Acq: 23 Nov 2020 15:28

Instrument :

MSVOA_X

ClientSampleId :

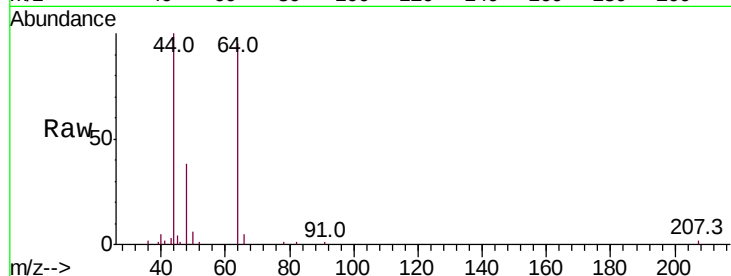
45BR-20201118

Tot Ion: 50 Resp: 691

Ion Ratio Lower Upper

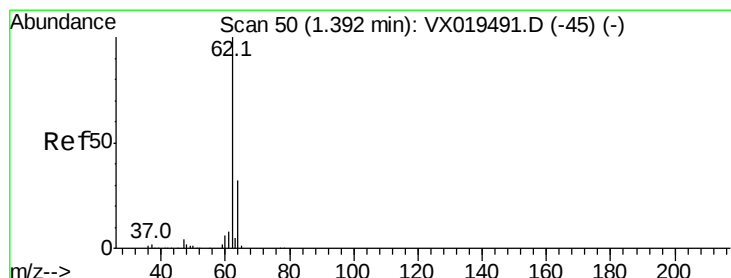
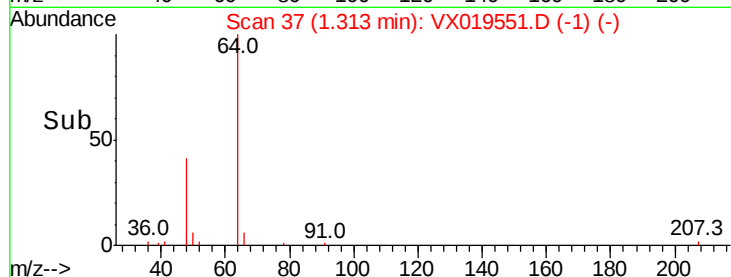
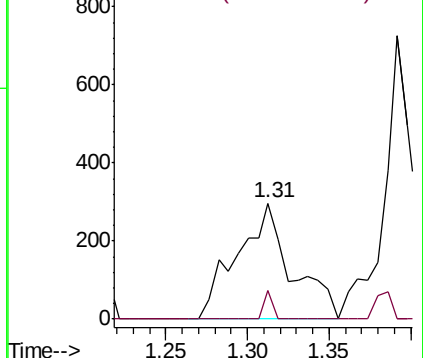
50 100

52 24.6 27.0 40.6#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#4

Vinyl Chloride

Concen: 30.113 ug/l

RT: 1.39 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX019551.D

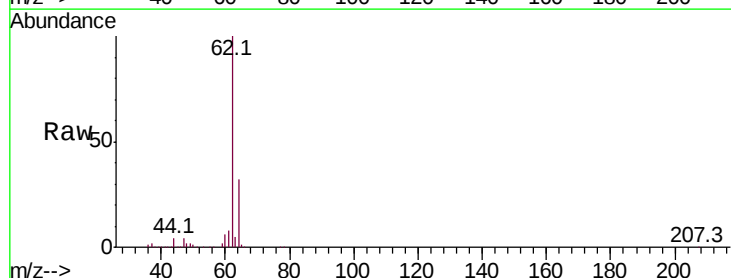
Acq: 23 Nov 2020 15:28

Tgt Ion: 62 Resp: 109592

Ion Ratio Lower Upper

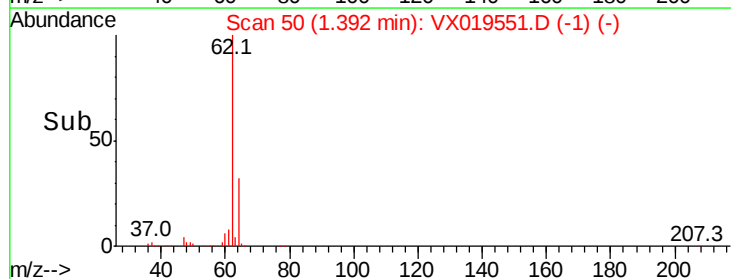
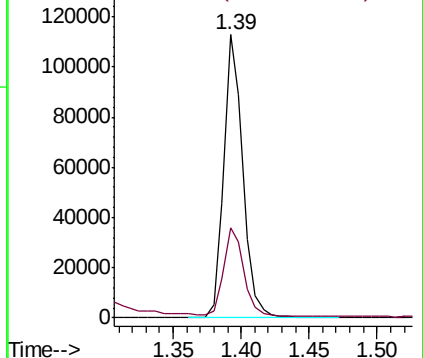
62 100

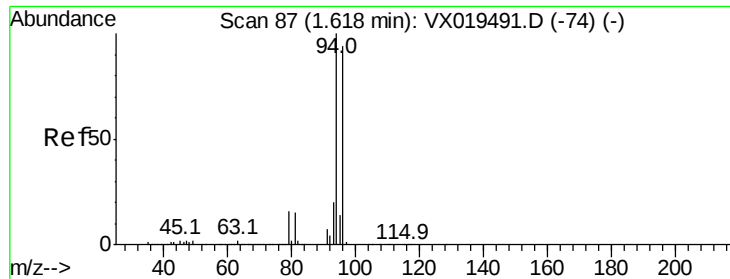
64 31.4 25.4 38.2



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#5

Bromomethane

Concen: 0.325 ug/l

RT: 1.62 min Scan# 87

Delta R.T. -0.00 min

Lab File: VX019551.D

Acq: 23 Nov 2020 15:28

Instrument :

MSVOA_X

ClientSampled :

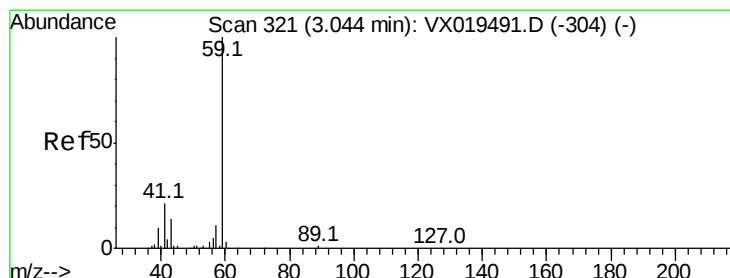
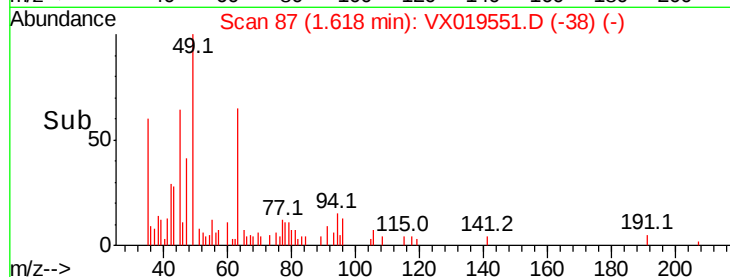
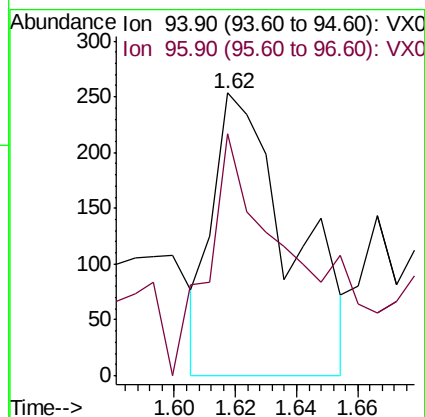
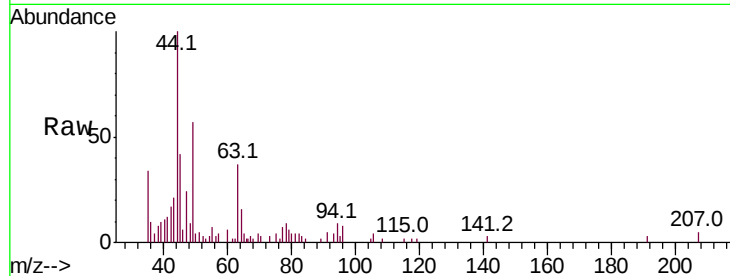
45BR-20201118

Tot Ion: 94 Resp: 448

Ion Ratio Lower Upper

94 100

96 75.1 75.6 113.4#



#11

Tert butyl alcohol

Concen: 0.496 ug/l

RT: 3.04 min Scan# 321

Delta R.T. -0.00 min

Lab File: VX019551.D

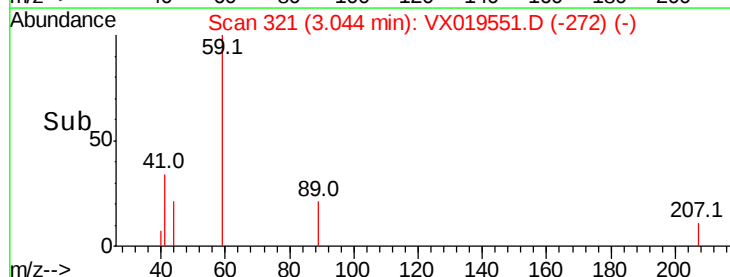
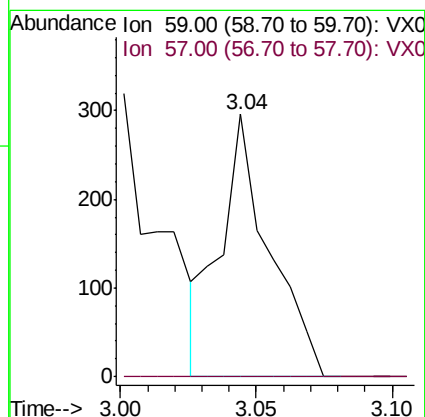
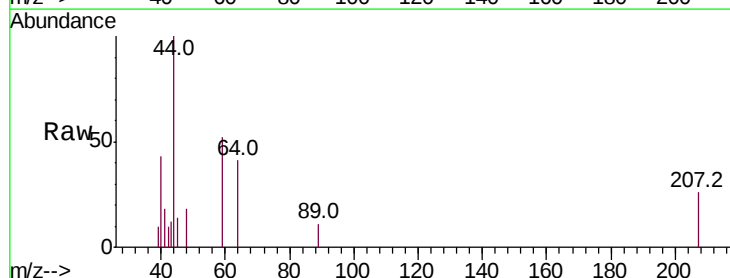
Acq: 23 Nov 2020 15:28

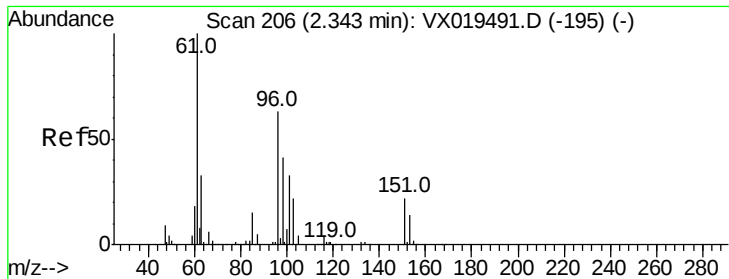
Tgt Ion: 59 Resp: 369

Ion Ratio Lower Upper

59 100

57 0.0 7.9 11.9#





#12

1,1-Dichloroethene

Concen: 5.574 ug/l

RT: 2.34 min Scan# 206

Delta R.T. -0.00 min

Lab File: VX019551.D

Acq: 23 Nov 2020 15:28

Instrument :

MSVOA_X

ClientSampleId :

45BR-20201118

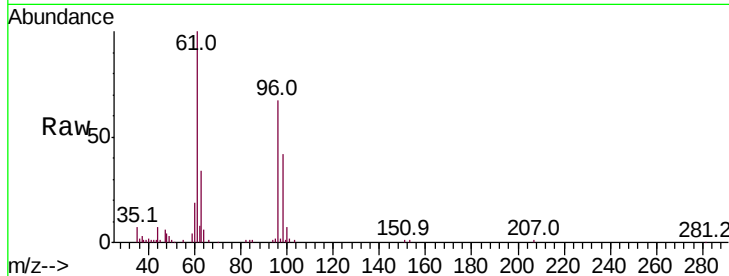
Tot Ion: 96 Resp: 16765

Ion Ratio Lower Upper

96 100

61 149.7 126.0 189.0

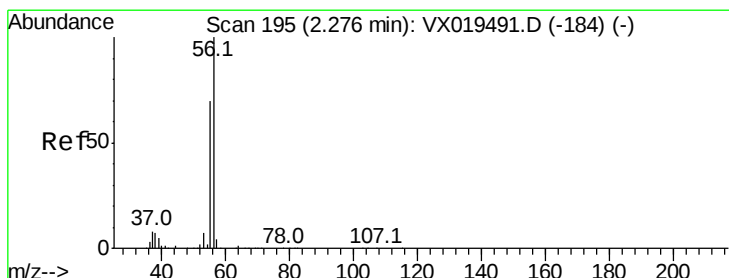
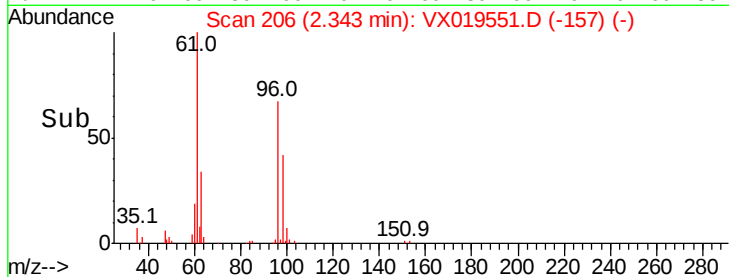
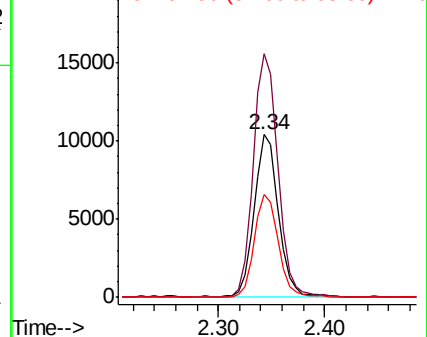
98 63.5 52.0 78.0



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



#13

Acrolein

Concen: 0.436 ug/l

RT: 2.28 min Scan# 196

Delta R.T. 0.01 min

Lab File: VX019551.D

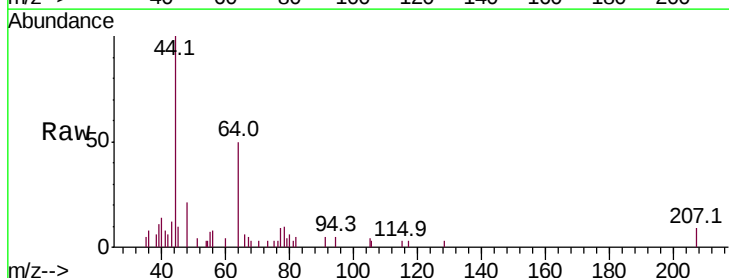
Acq: 23 Nov 2020 15:28

Tgt Ion: 56 Resp: 218

Ion Ratio Lower Upper

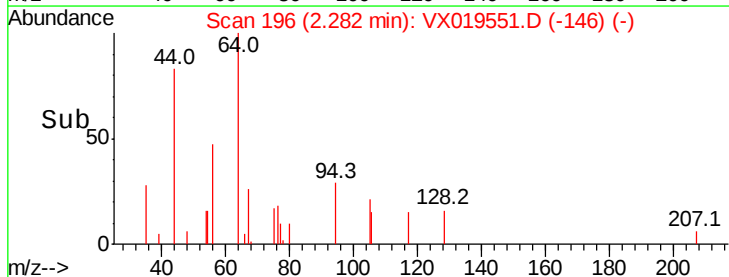
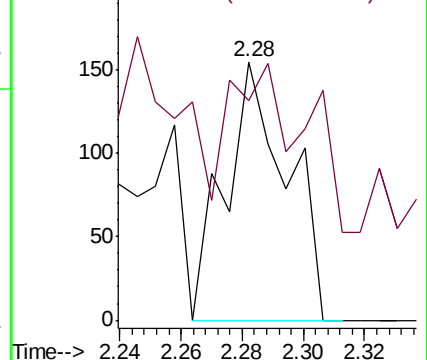
56 100

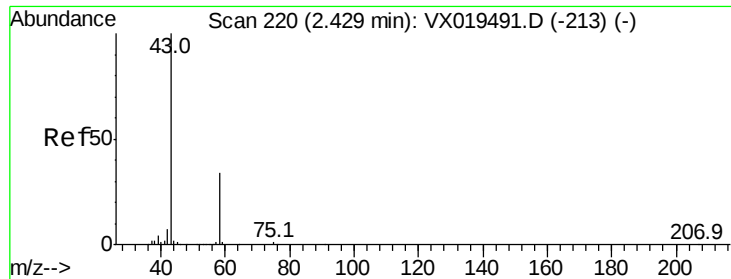
55 78.0 55.5 83.3



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 0.995 ug/l

RT: 2.43 min Scan# 220

Delta R.T. -0.00 min

Lab File: VX019551.D

Acq: 23 Nov 2020 15:28

Instrument :

MSVOA_X

ClientSampleId :

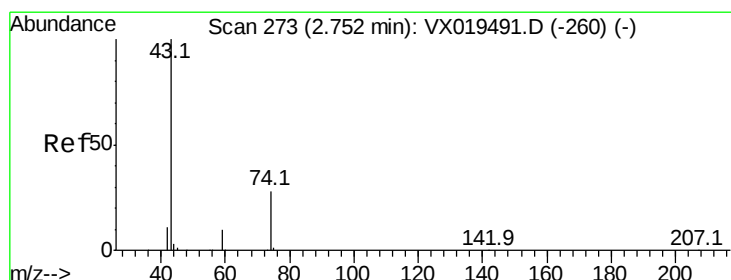
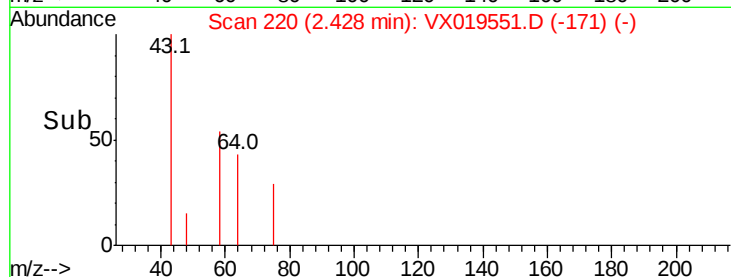
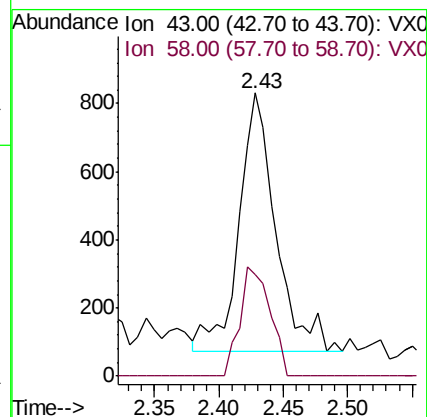
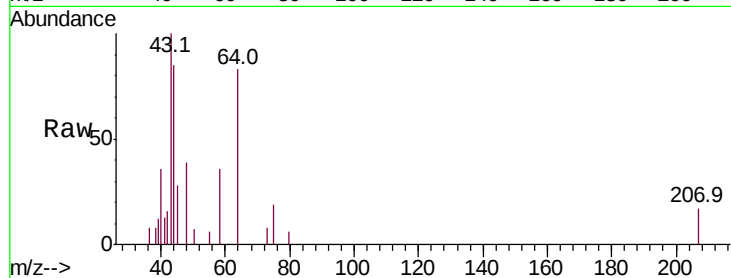
45BR-20201118

Tot Ion: 43 Resp: 1511

Ion Ratio Lower Upper

43 100

58 39.1 27.4 41.2



#18

Methyl Acetate

Concen: 0.736 ug/l

RT: 2.76 min Scan# 274

Delta R.T. 0.01 min

Lab File: VX019551.D

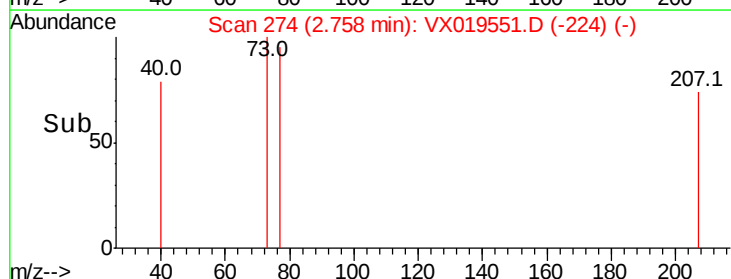
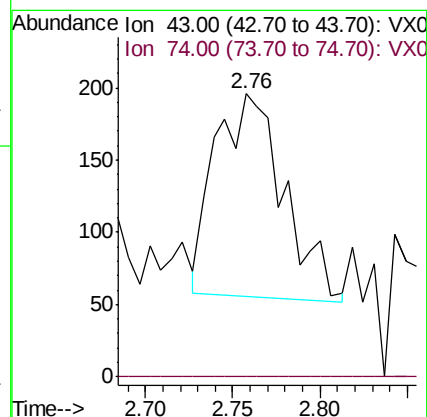
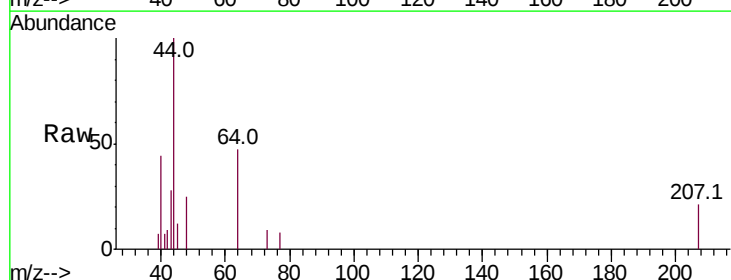
Acq: 23 Nov 2020 15:28

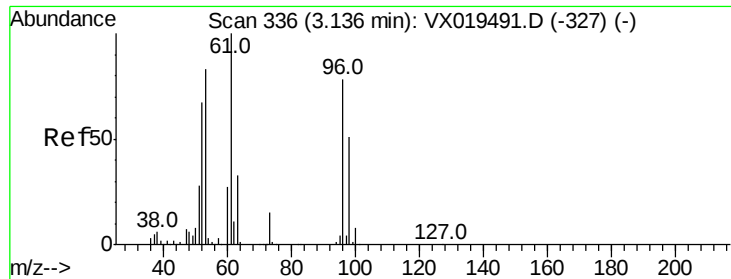
Tgt Ion: 43 Resp: 382

Ion Ratio Lower Upper

43 100

74 0.0 22.2 33.4#





#21

trans-1,2-Dichloroethene

Concen: 6.423 ug/l

RT: 3.14 min Scan# 336

Delta R.T. -0.00 min

Lab File: VX019551.D

Acq: 23 Nov 2020 15:28

Instrument :

MSVOA_X

ClientSampleId :

45BR-20201118

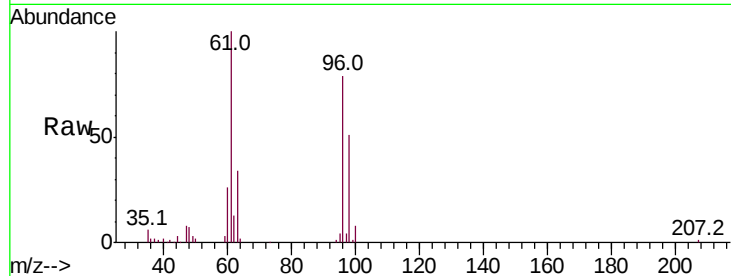
Tot Ion: 96 Resp: 21890

Ion Ratio Lower Upper

96 100

61 126.1 102.9 154.3

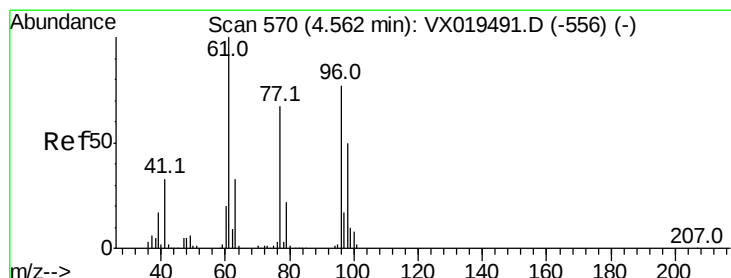
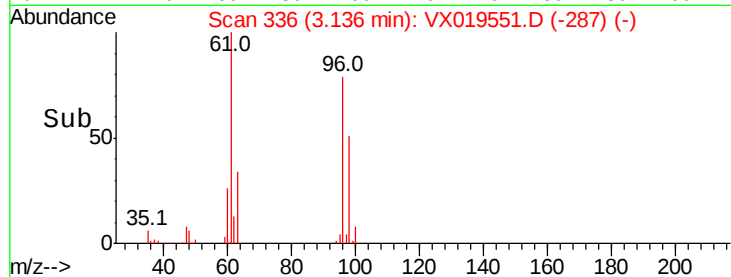
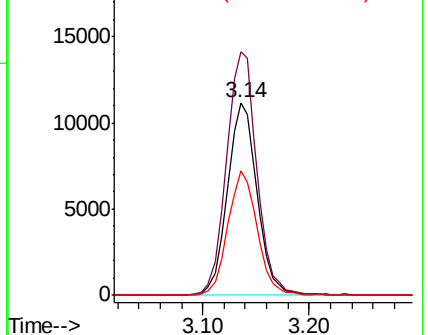
98 64.6 52.1 78.1



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



#27

cis-1,2-Dichloroethene

Concen: 1055.549 ug/l

RT: 4.56 min Scan# 570

Delta R.T. -0.00 min

Lab File: VX019551.D

Acq: 23 Nov 2020 15:28

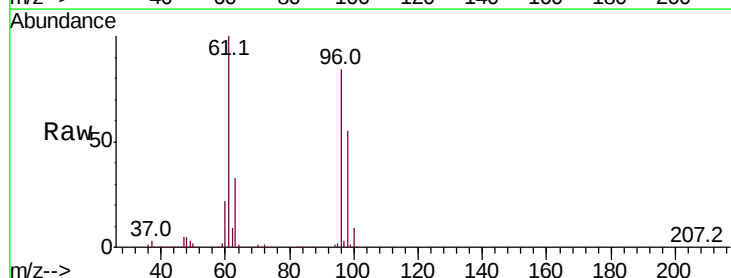
Tgt Ion: 96 Resp: 4131960

Ion Ratio Lower Upper

96 100

61 119.0 0.0 279.2

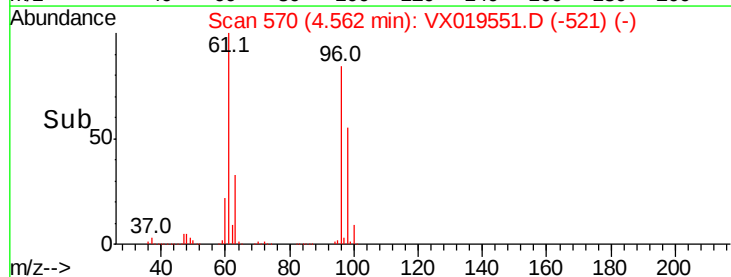
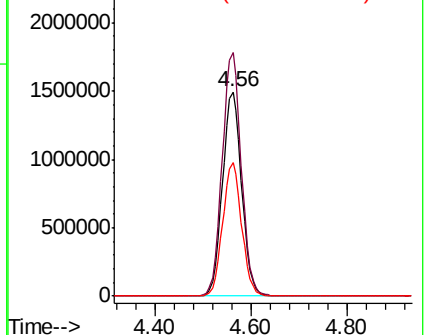
98 64.6 0.0 129.8

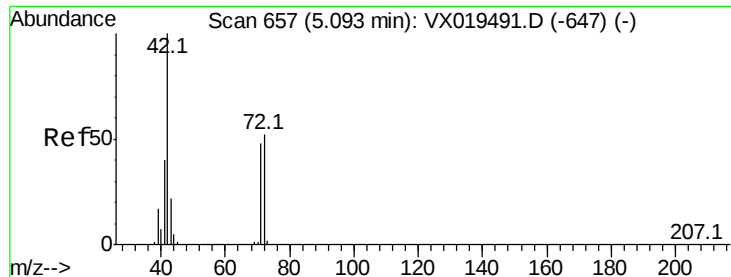


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

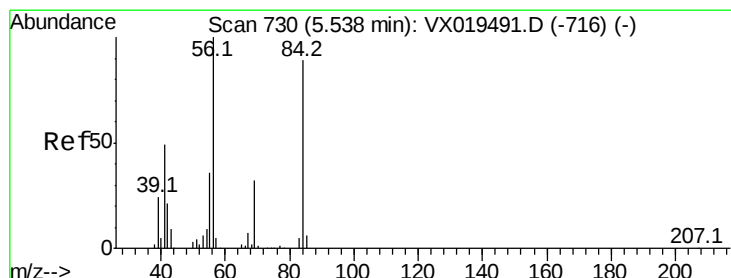
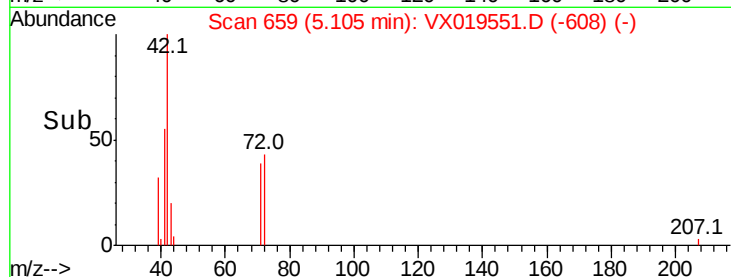
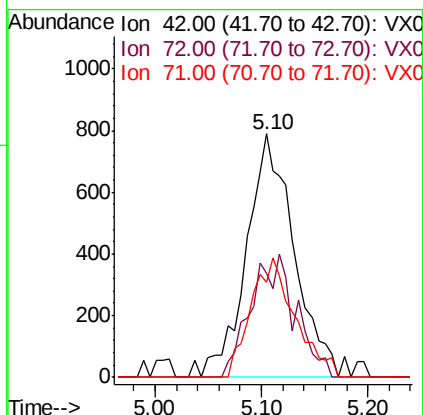
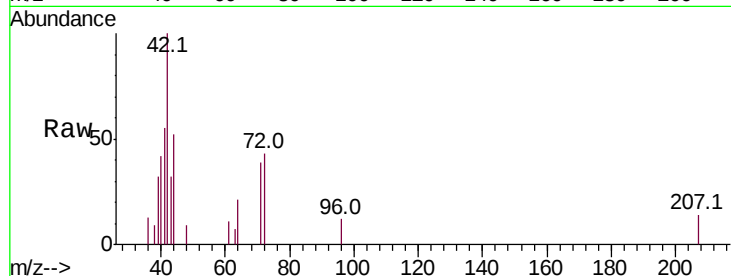




#29
Tetrahydrofuran
Concen: 1.694 ug/l
RT: 5.10 min Scan# 659
Delta R.T. 0.01 min
Lab File: VX019551.D
Acq: 23 Nov 2020 15:28

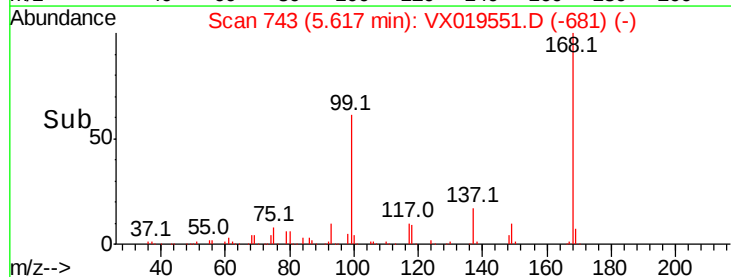
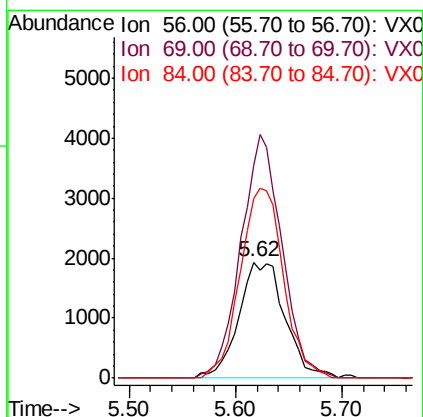
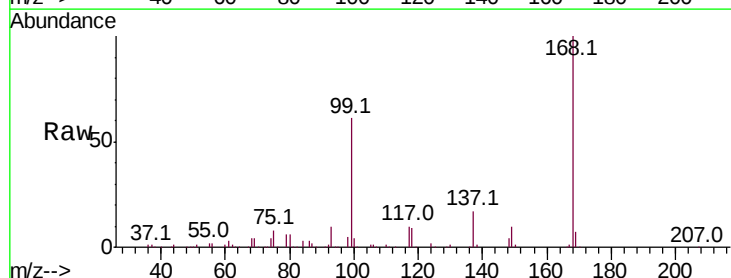
Instrument :
MSVOA_X
ClientSampleId :
45BR-20201118

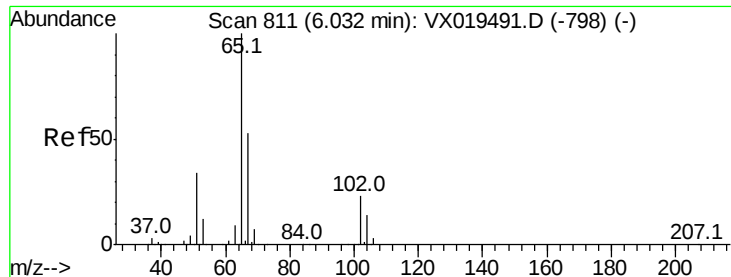
Tot Ion: 42 Resp: 2466
Ion Ratio Lower Upper
42 100
72 25.6 42.6 63.8#
71 45.5 39.0 58.6



#31
Cyclohexane
Concen: 1.151 ug/l
RT: 5.62 min Scan# 743
Delta R.T. 0.08 min
Lab File: VX019551.D
Acq: 23 Nov 2020 15:28

Tgt Ion: 56 Resp: 5880
Ion Ratio Lower Upper
56 100
69 183.7 25.5 38.3#
84 154.7 71.1 106.7#

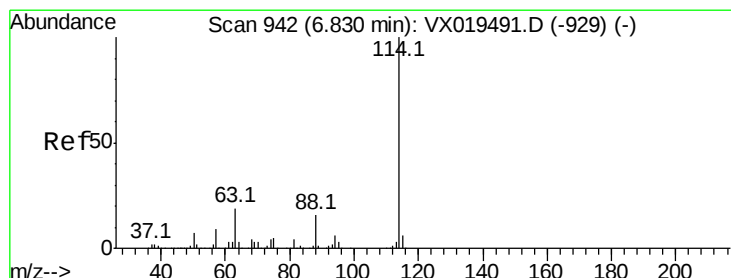
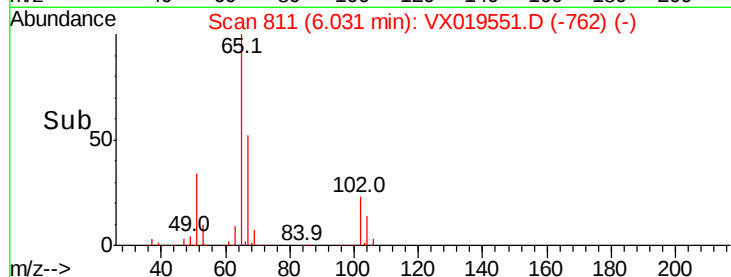
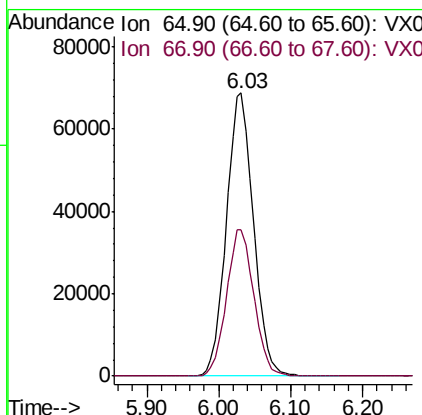
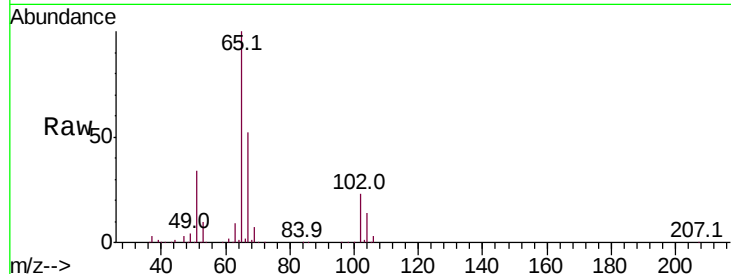




#33
 1,2-Dichloroethane-d4
 Concen: 45.860 ug/l
 RT: 6.03 min Scan# 811
 Delta R.T. -0.00 min
 Lab File: VX019551.D
 Acq: 23 Nov 2020 15:28

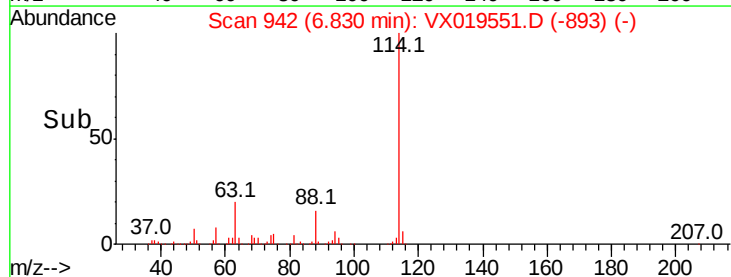
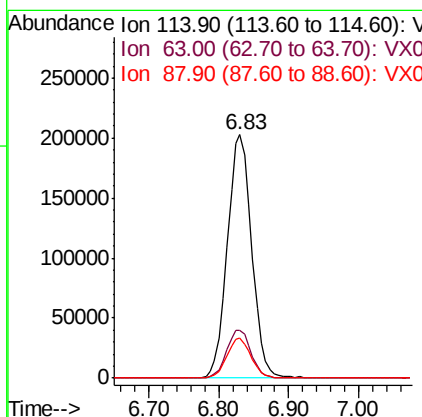
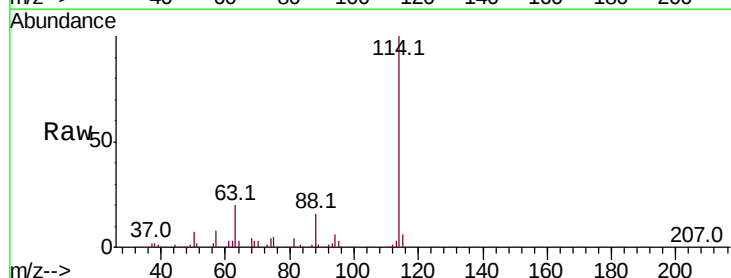
Instrument :
 MSVOA_X
 ClientSampleId :
 45BR-20201118

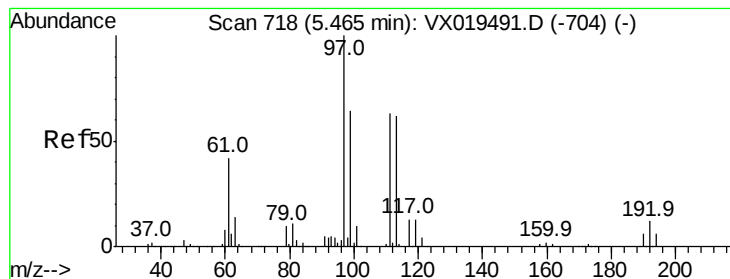
Tot Ion: 65 Resp: 180148
 Ion Ratio Lower Upper
 65 100
 67 52.4 0.0 105.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. -0.00 min
 Lab File: VX019551.D
 Acq: 23 Nov 2020 15:28

Tgt Ion: 114 Resp: 488927
 Ion Ratio Lower Upper
 114 100
 63 19.8 0.0 38.8
 88 16.3 0.0 31.6





#35

Dibromofluoromethane

Concen: 47.345 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.00 min

Lab File: VX019551.D

Acq: 23 Nov 2020 15:28

Instrument :

MSVOA_X

ClientSampleId :

45BR-20201118

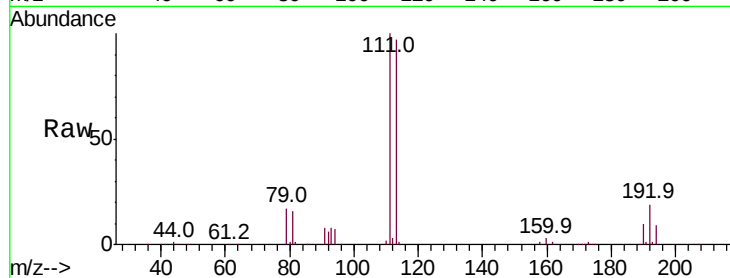
Tot Ion:113 Resp: 145303

Ion Ratio Lower Upper

113 100

111 102.7 81.5 122.3

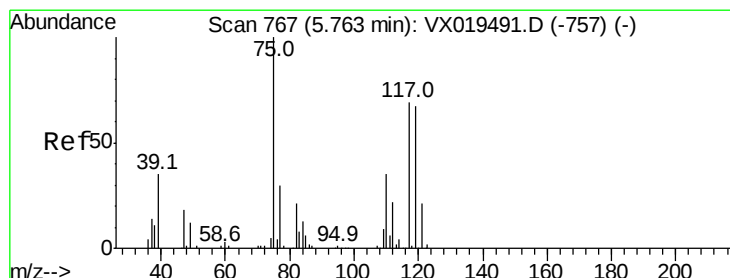
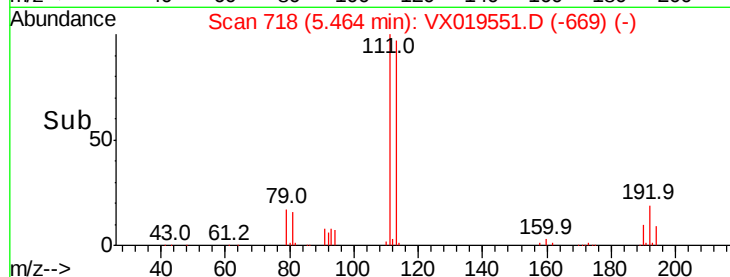
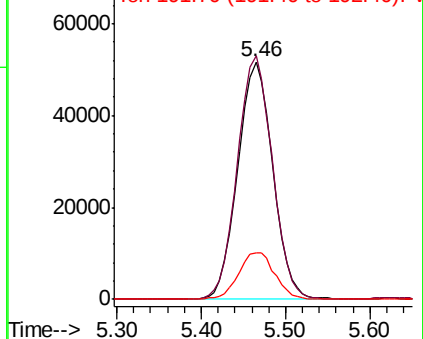
192 20.4 16.2 24.2



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: 4.836 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.14 min

Lab File: VX019551.D

Acq: 23 Nov 2020 15:28

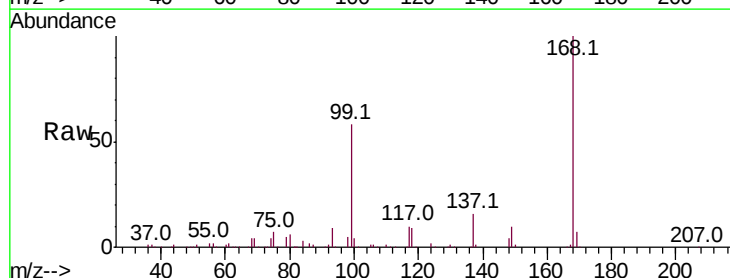
Tgt Ion: 75 Resp: 22165

Ion Ratio Lower Upper

75 100

110 8.7 18.1 54.3#

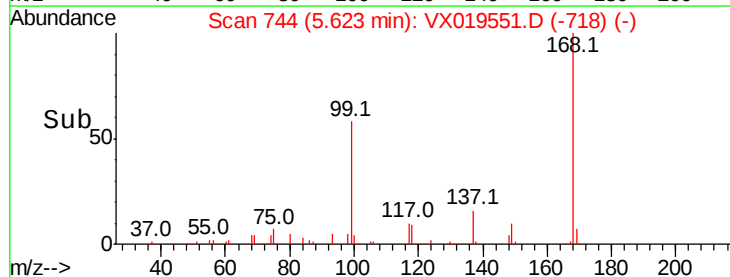
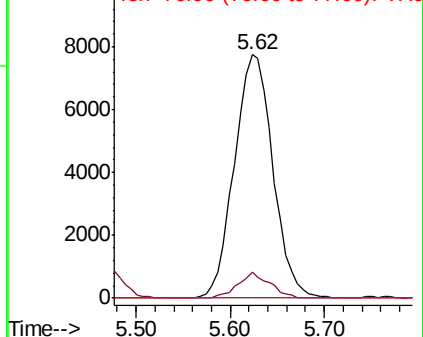
77 0.0 24.2 36.4#

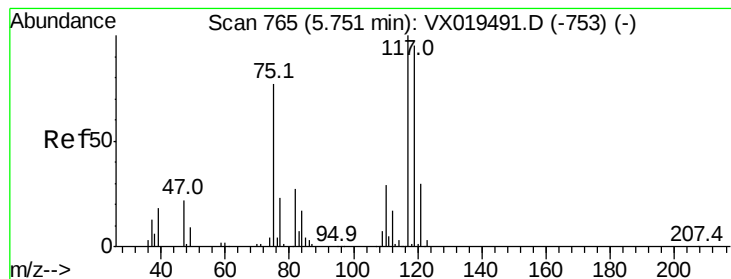


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.665 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX019551.D

Acq: 23 Nov 2020 15:28

Instrument :

MSVOA_X

ClientSampleId :

45BR-20201118

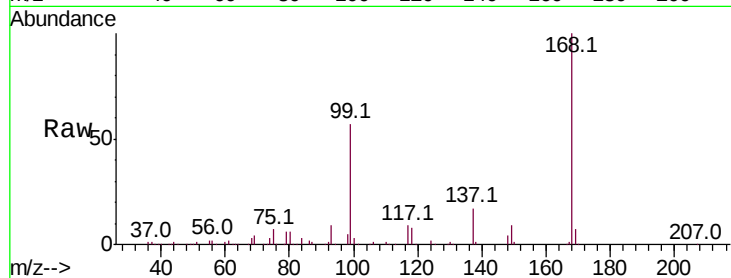
Tot Ion:117 Resp: 29570

Ion Ratio Lower Upper

117 100

119 4.4 75.9 113.9#

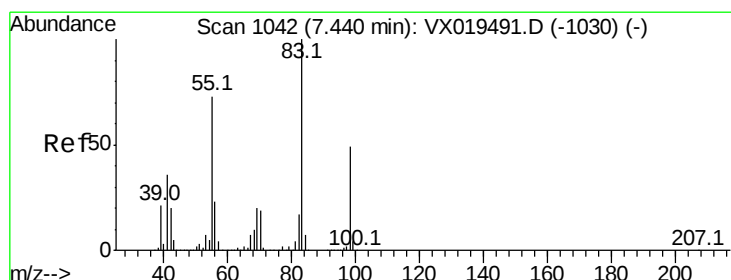
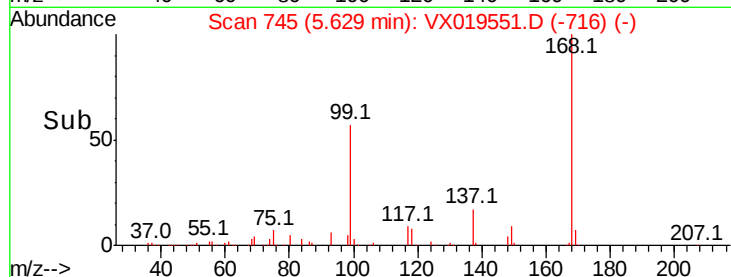
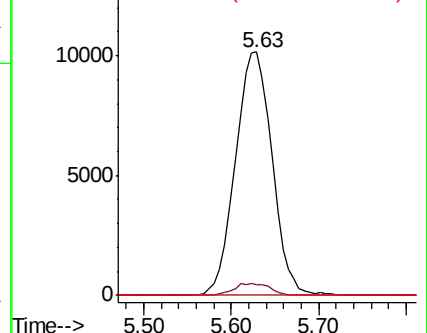
121 0.0 24.0 36.0#



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: 23.688 ug/l

RT: 7.20 min Scan# 1002

Delta R.T. -0.24 min

Lab File: VX019551.D

Acq: 23 Nov 2020 15:28

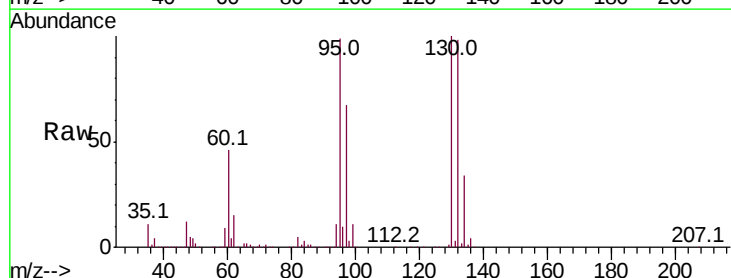
Tgt Ion: 83 Resp: 126423

Ion Ratio Lower Upper

83 100

55 0.3 58.3 87.5#

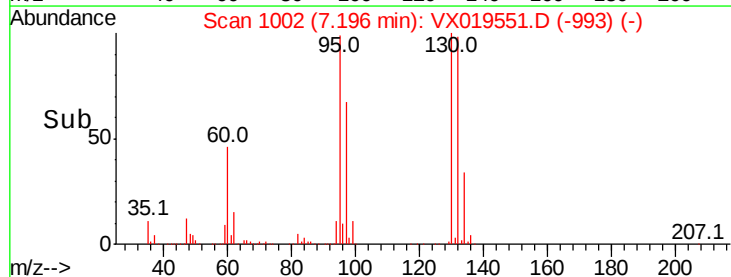
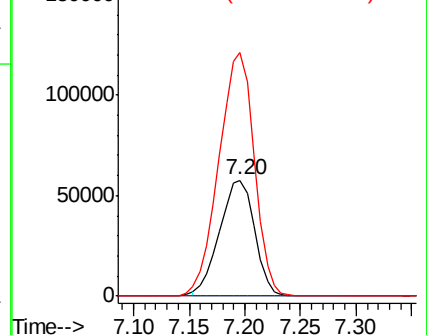
98 209.3 38.9 58.3#

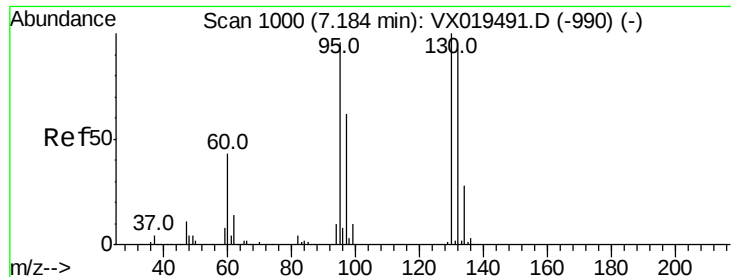


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





#44

Trichloroethene

Concen: 2721.339 ug/l

RT: 7.20 min Scan# 1002

Delta R.T. 0.01 min

Lab File: VX019551.D

Acq: 23 Nov 2020 15:28

Instrument :

MSVOA_X

ClientSampleId :

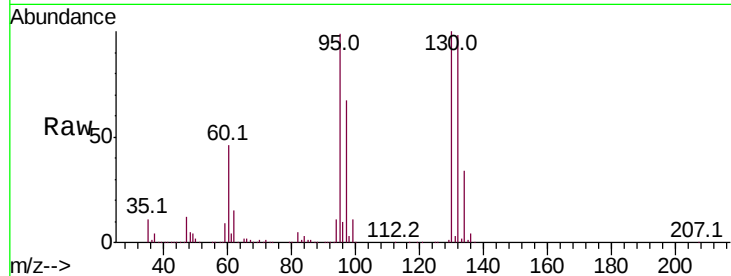
45BR-20201118

Tot Ion:130 Resp:10038995

Ion Ratio Lower Upper

130 100

95 99.4 0.0 191.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.20

4000000

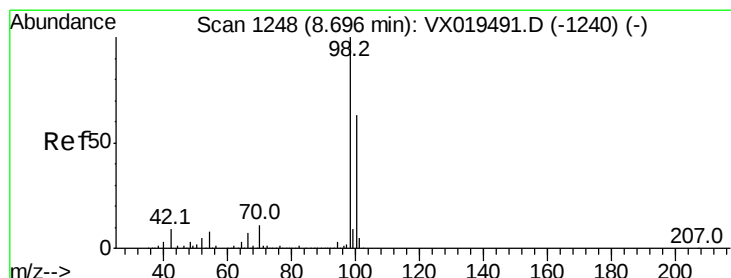
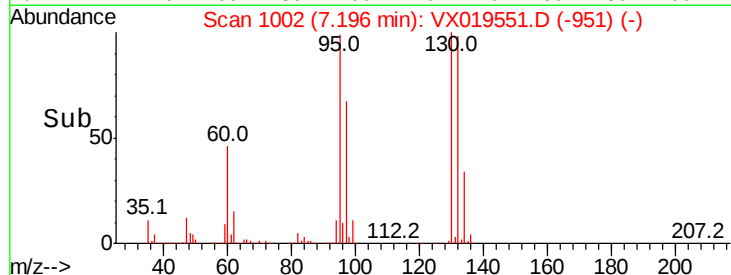
3000000

2000000

1000000

0

Time--> 7.00 7.10 7.20 7.30 7.40



#50

Toluene-d8

Concen: 47.235 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX019551.D

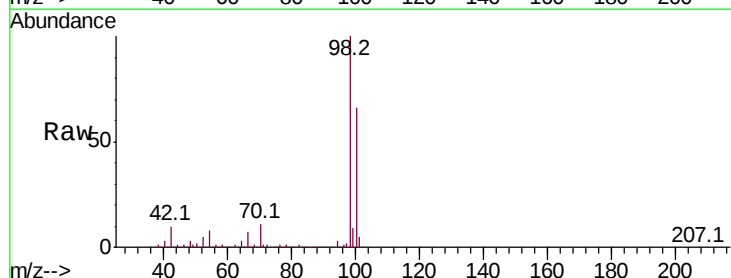
Acq: 23 Nov 2020 15:28

Tgt Ion: 98 Resp: 563315

Ion Ratio Lower Upper

98 100

100 66.2 52.4 78.6



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

8.70

400000

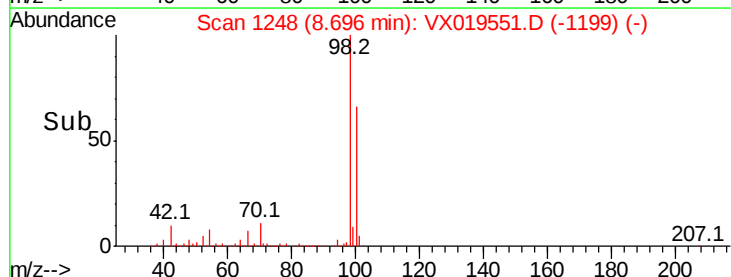
300000

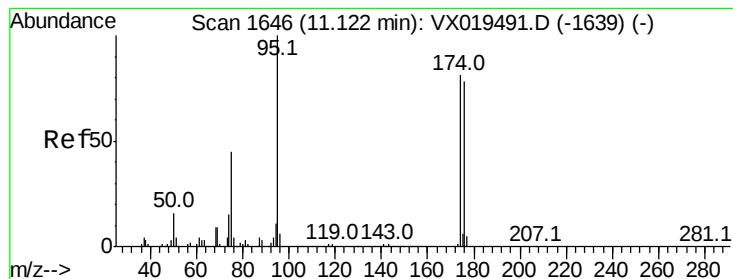
200000

100000

0

Time--> 8.60 8.70 8.80 8.90





#62

4-Bromofluorobenzene

Concen: 44.708 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX019551.D

Acq: 23 Nov 2020 15:28

Instrument :

MSVOA_X

ClientSampleId :

45BR-20201118

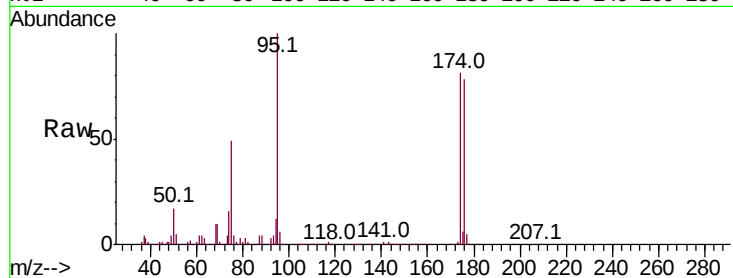
Tot Ion: 95 Resp: 191830

Ion Ratio Lower Upper

95 100

174 79.3 0.0 156.2

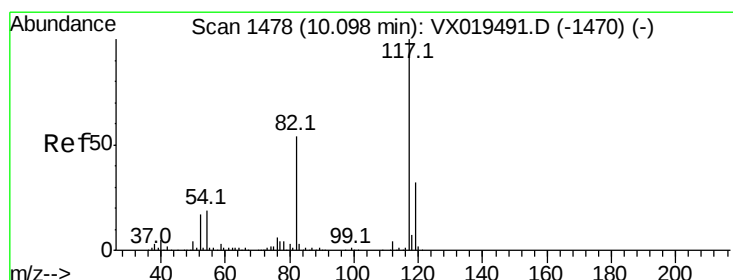
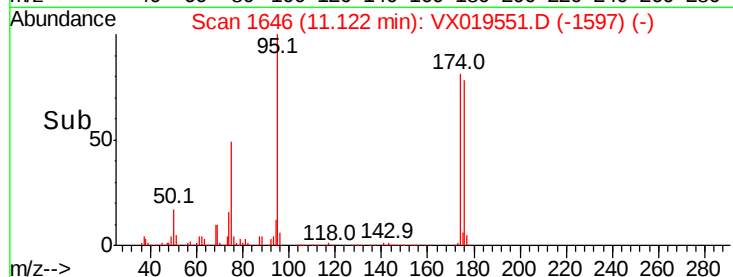
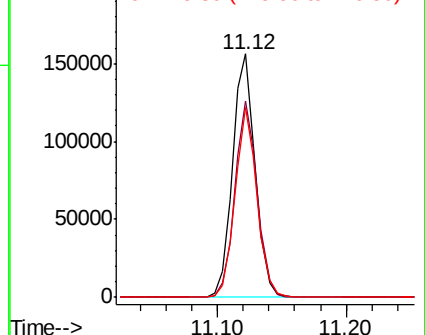
176 75.6 0.0 151.4



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: VX019551.D

Acq: 23 Nov 2020 15:28

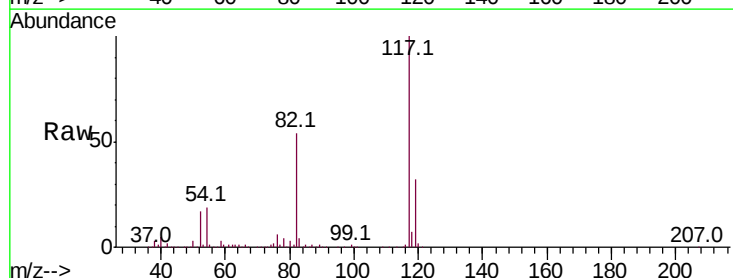
Tgt Ion: 117 Resp: 409846

Ion Ratio Lower Upper

117 100

82 53.7 43.0 64.4

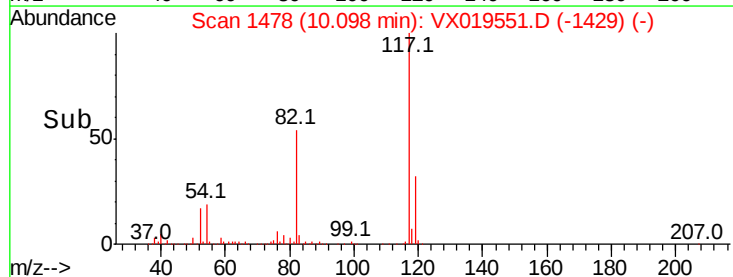
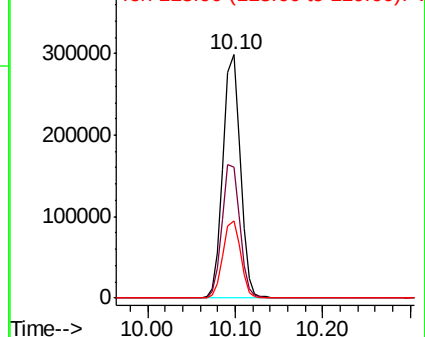
119 31.7 25.6 38.4

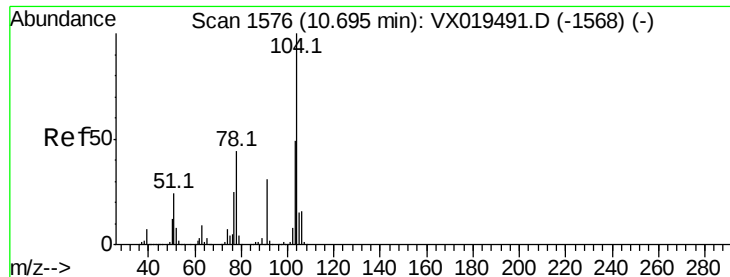


Abundance Ion 116.90 (116.60 to 117.60): VX019491.D (-1470) (-)

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: 1.659 ug/l

RT: 10.69 min Scan# 1575

Delta R.T. -0.01 min

Lab File: VX019551.D

Acq: 23 Nov 2020 15:28

Instrument :

MSVOA_X

ClientSampleId :

45BR-20201118

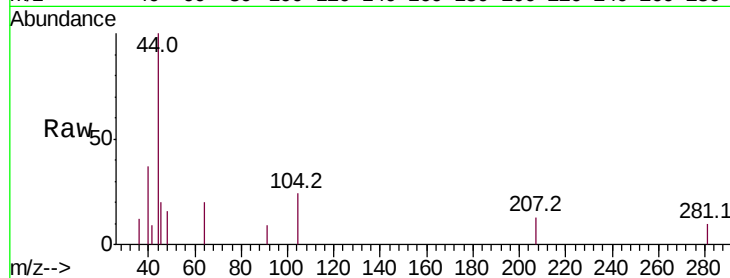
Tot Ion:104 Resp: 133

Ion Ratio Lower Upper

104 100

78 0.0 39.5 59.3#

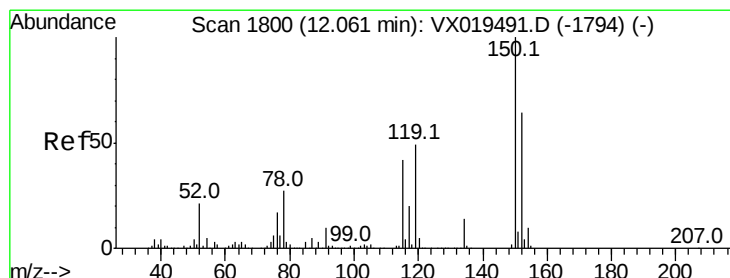
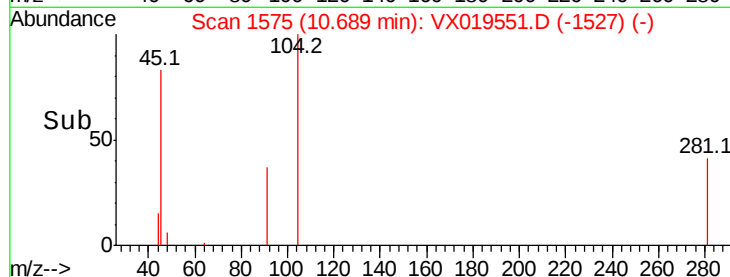
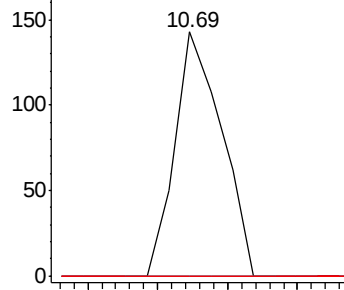
103 0.0 43.6 65.4#



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: VX019551.D

Acq: 23 Nov 2020 15:28

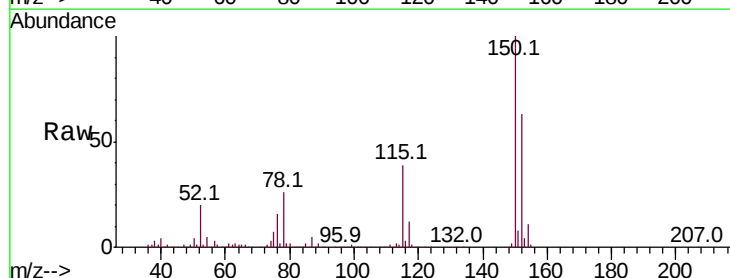
Tgt Ion:152 Resp: 176746

Ion Ratio Lower Upper

152 100

115 60.2 41.8 125.4

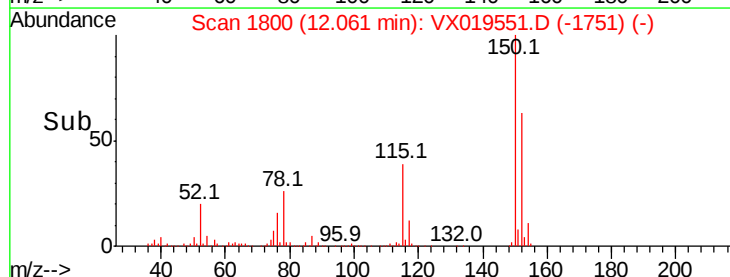
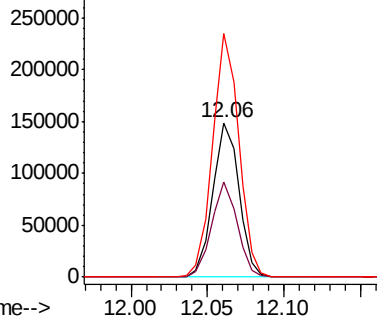
150 157.9 0.0 348.2

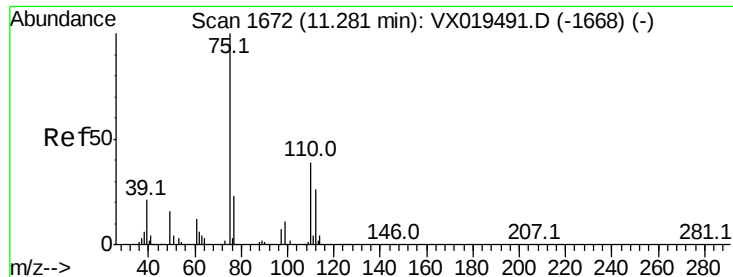


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 24.413 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019551.D

Acq: 23 Nov 2020 15:28

Instrument :

MSVOA_X

ClientSampleId :

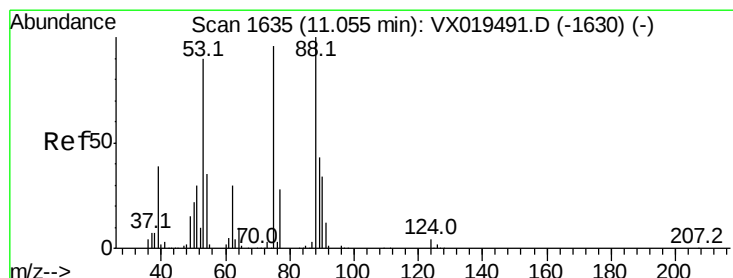
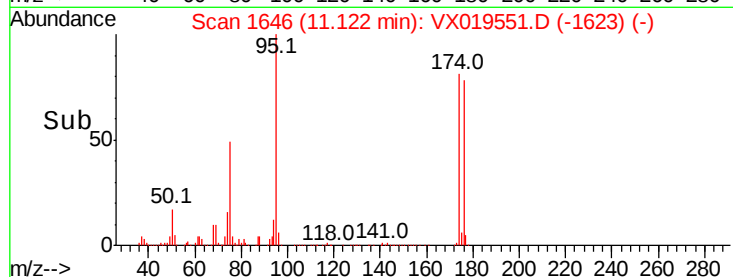
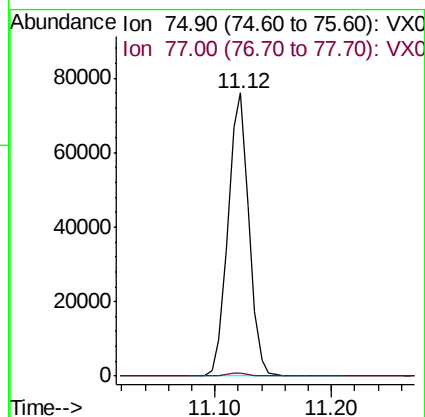
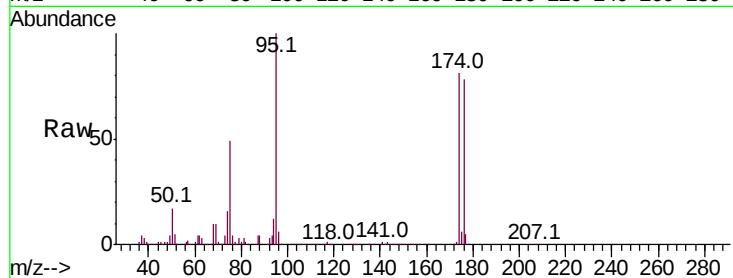
45BR-20201118

Tot Ion: 75 Resp: 94166

Ion Ratio Lower Upper

75 100

77 1.0 20.0 60.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 64.589 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX019551.D

Acq: 23 Nov 2020 15:28

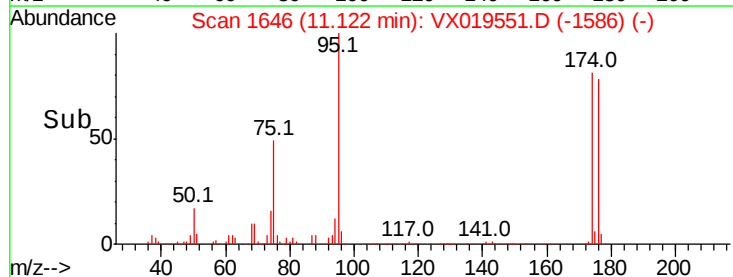
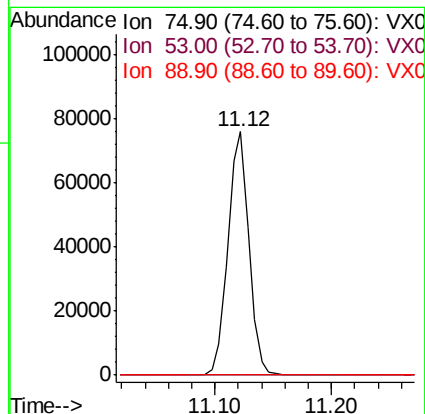
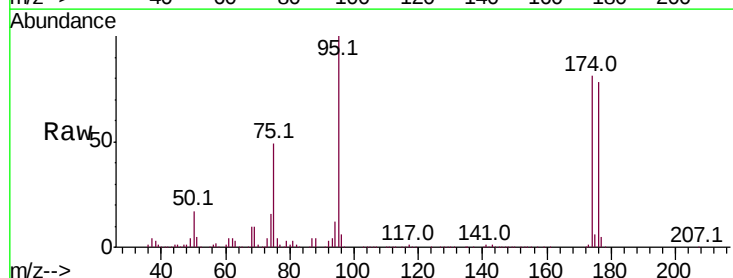
Tgt Ion: 75 Resp: 94166

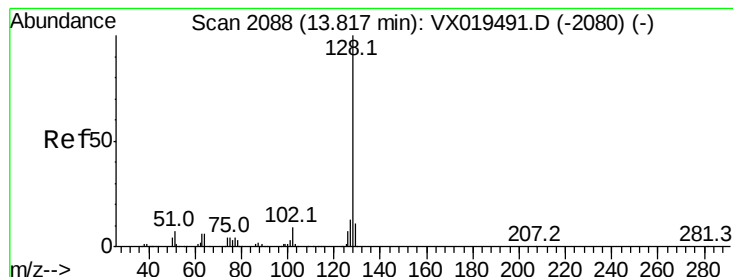
Ion Ratio Lower Upper

75 100

53 0.0 73.9 110.9#

89 0.0 37.3 55.9#





#95

Naphthalene

Concen: 2.199 ug/l

RT: 13.82 min Scan# 2088

Delta R.T. 0.00 min

Lab File: VX019551.D

Acq: 23 Nov 2020 15:28

Instrument :

MSVOA_X

ClientSampleId :

45BR-20201118

Tot Ion:128 Resp: 291

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 8.7 13.1#

