

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX100620\
 Data File : VX018798.D
 Acq On : 06 Oct 2020 14:41
 Operator : JC/SP
 Sample : L4240-05 10X
 Misc : 25.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BG3R3

Quant Time: Oct 07 01:32:52 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\SOMXTR100220WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Oct 07 01:30:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.83	114	128455	5.00	ug/L	0.00
28) Chlorobenzene-d5	10.10	117	123098	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	12.06	152	58276	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	37065	4.94	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	98.80%
7) Chloroethane-d5	1.70	69	33133	5.64	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	112.80%
11) 1,1-Dichloroethene-d2	2.34	63	64906	3.83	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	76.60%
20) 2-Butanone-d5	4.56	46	134003	68.08	ug/L	0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	136.16%#
24) Chloroform-d	5.14	84	93524	5.15	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	103.00%
26) 1,2-Dichloroethane-d4	6.03	65	55104	4.97	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.40%
32) Benzene-d6	6.04	84	174112	5.69	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	113.80%
36) 1,2-Dichloropropane-d6	7.37	67	53730	6.08	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	121.60%
41) Toluene-d8	8.70	98	157737	5.23	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	104.60%
45) trans-1,3-Dichloropropene-	8.99	79	23680	4.97	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	99.40%
48) 2-Hexanone-d5	9.43	63	107035	67.12	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	134.24%#
59) 1,1,2,2-Tetrachloroethane-	11.23	84	42056	5.85	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	117.00%
65) 1,2-Dichlorobenzene-d4	12.36	152	67283	6.26	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	125.20%#

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chloromethane	1.31	50	517	0.083	ug/L #	75
5) Vinyl chloride	1.39	62	379	0.055	ug/L #	1
8) Chloroethane	1.76	64	891	0.212	ug/L #	59
12) 1,1-Dichloroethene	2.34	96	780	0.122	ug/L #	1
14) Carbon disulfide	2.56	76	1510	0.075	ug/L	97
15) Methyl Acetate	2.82	43	103674	39.255	ug/L #	48
16) Methylene chloride	2.84	84	2515	0.324	ug/L #	24
21) 2-Butanone	4.53	43	5144	3.288	ug/L #	51
30) Cyclohexane	5.54	56	17556	1.738	ug/L	99
33) Benzene	6.12	78	2799	0.109	ug/L	100
35) Methylcyclohexane	7.43	83	2288	0.212	ug/L #	83
39) cis-1,3-Dichloropropene	8.37	75	1824	0.177	ug/L	83
43) 1,3,5-Trimethylbenzene	11.49	105	7254	0.272	ug/L	95
44) 1,2,4-Trimethylbenzene	11.79	105	22207	0.820	ug/L	96
47) 1,1,2-Trichloroethane	9.15	97	3216	0.660	ug/L #	29
50) 2-Hexanone	9.43	43	12429	4.574	ug/L #	73
53) Chlorobenzene	10.12	112	424839	22.019	ug/L	95

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 Response via : Initial Calibration

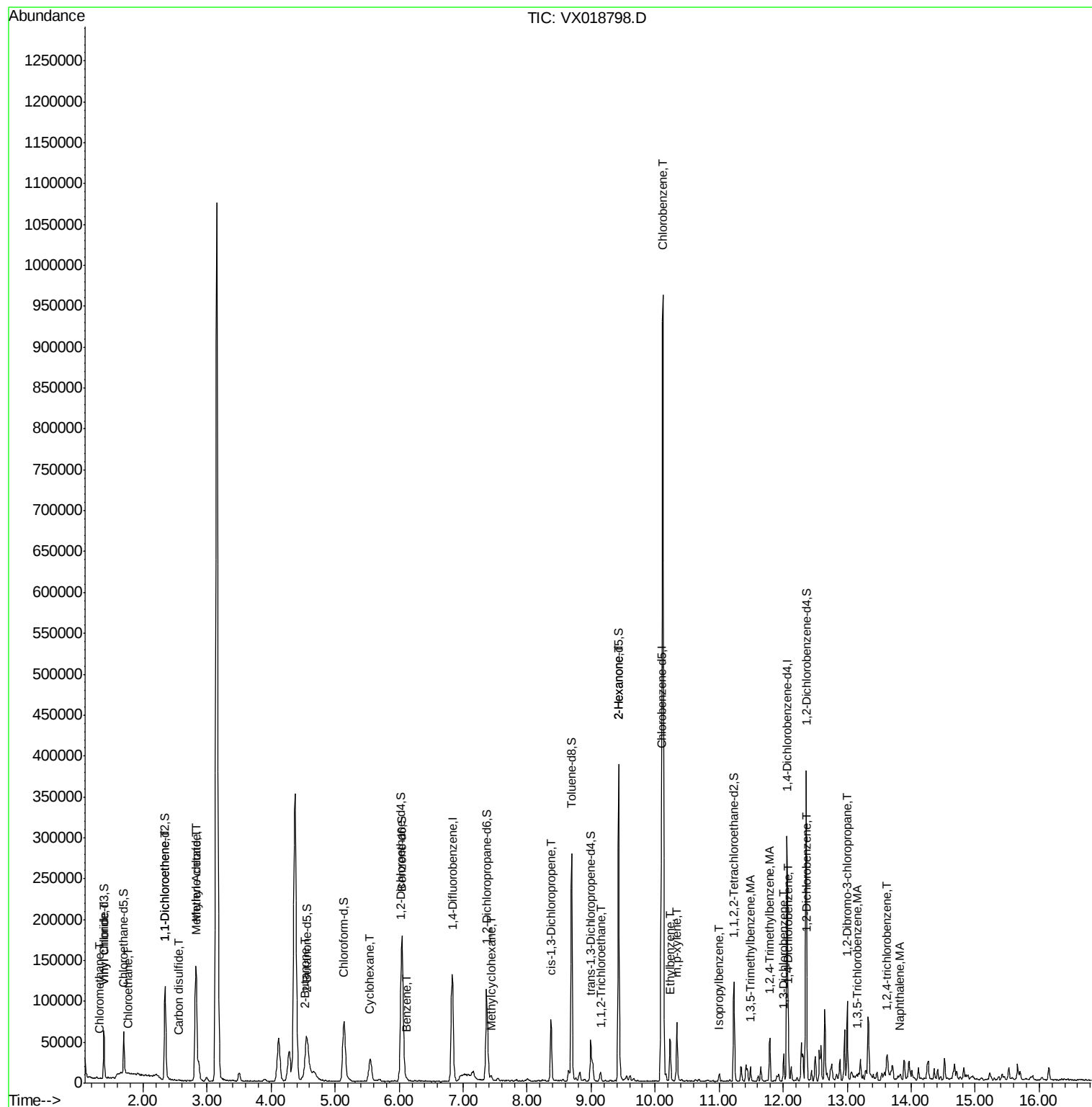
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) Ethylbenzene	10.24	91	27878	0.882	ug/L	99
55) m,p-xylene	10.34	106	15641	1.268	ug/L	89
58) Isopropylbenzene	11.00	105	4425	0.139	ug/L	94
63) 1,3-Dichlorobenzene	12.01	146	6755	0.477	ug/L	97
64) 1,4-Dichlorobenzene	12.09	146	10785	0.763	ug/L	96
66) 1,2-Dichlorobenzene	12.38	146	763	0.058	ug/L #	84
67) 1,2-Dibromo-3-chloropropan	13.00	75	430	0.382	ug/L #	7
68) 1,3,5-Trichlorobenzene	13.15	180	716	0.066	ug/L #	88
69) 1,2,4-trichlorobenzene	13.63	180	1363	0.151	ug/L #	61
70) Naphthalene	13.82	128	2852	0.193	ug/L #	81

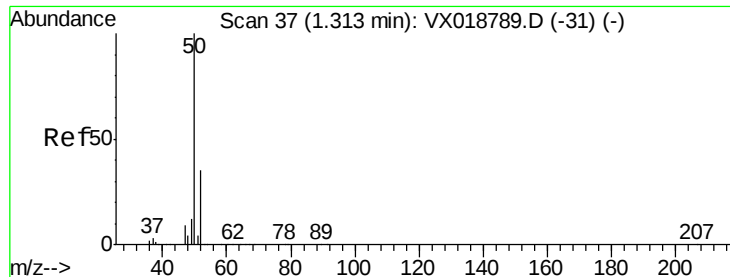
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.083 ug/L

RT: 1.31 min Scan# 37

Delta R.T. -0.00 min

Lab File: VX018798.D

Acq: 06 Oct 2020 14:41

Instrument :

MSVOA_X

ClientSampleId :

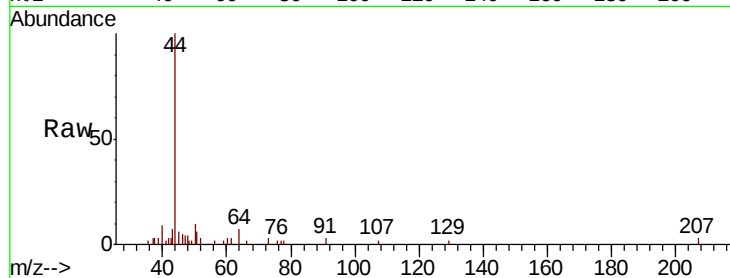
BG3R3

Tot Ion: 50 Resp: 517

Ion Ratio Lower Upper

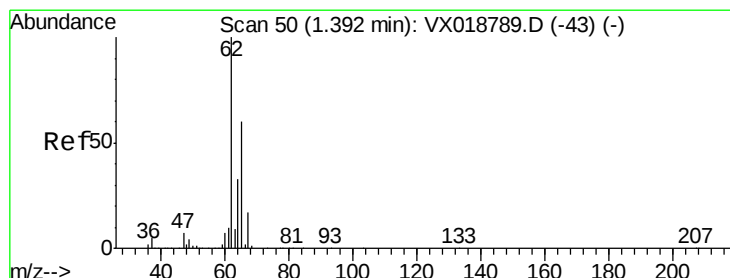
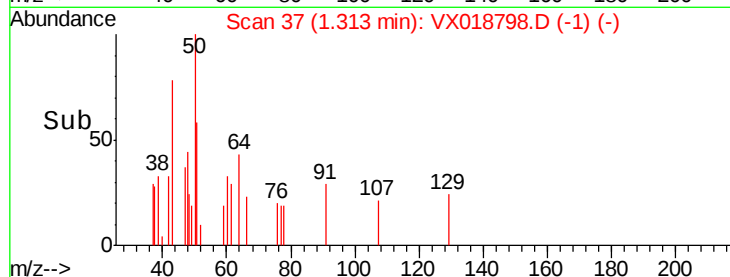
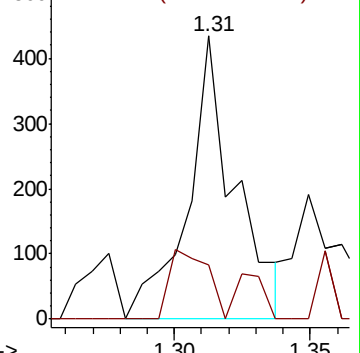
50 100

52 19.1 23.4 43.6#



Abundance Ion 50.05 (49.75 to 50.75): VX0

Ion 52.05 (51.75 to 52.75): VX0



#5

Vinyl chloride

Concen: 0.055 ug/L

RT: 1.39 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX018798.D

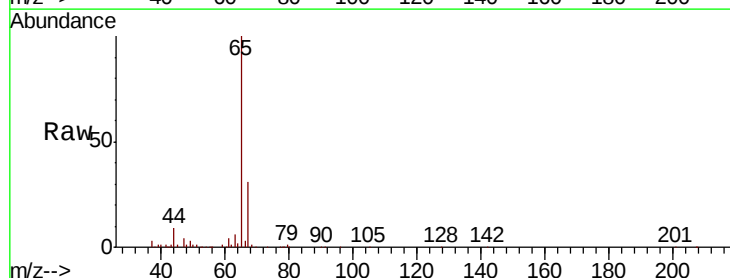
Acq: 06 Oct 2020 14:41

Tgt Ion: 62 Resp: 379

Ion Ratio Lower Upper

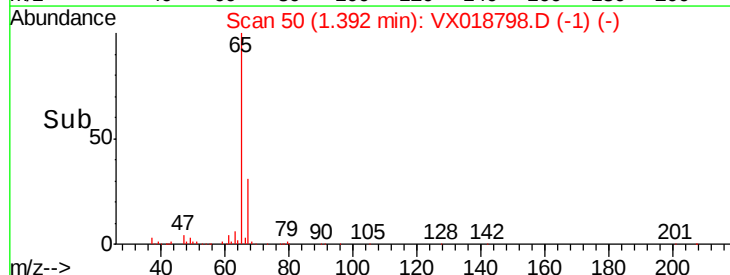
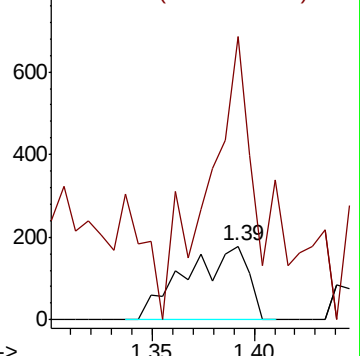
62 100

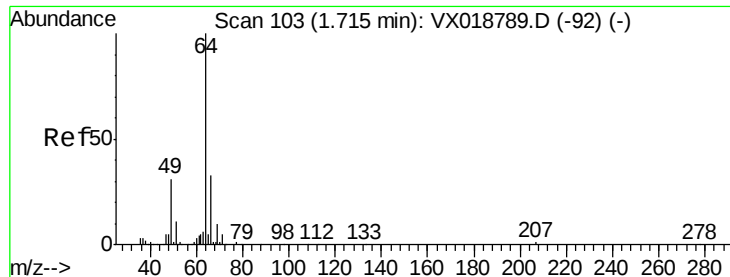
64 384.8 24.3 45.1#



Abundance Ion 62.00 (61.70 to 62.70): VX0

Ion 64.10 (63.80 to 64.80): VX0





#8

Chloroethane

Concen: 0.212 ug/L

RT: 1.76 min Scan# 111

Delta R.T. 0.05 min

Lab File: VX018798.D

Acq: 06 Oct 2020 14:41

Instrument :

MSVOA_X

ClientSampleId :

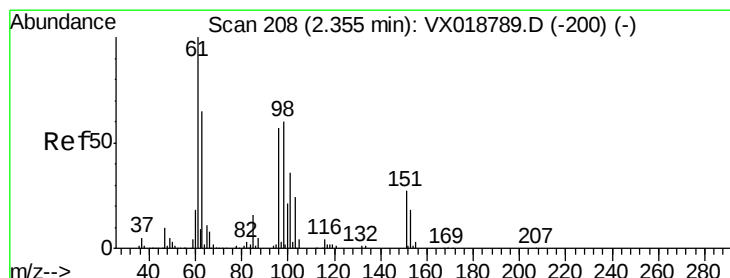
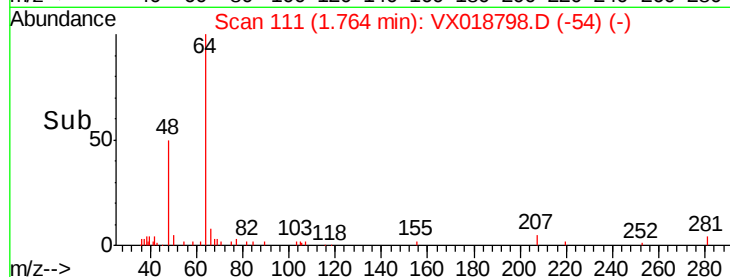
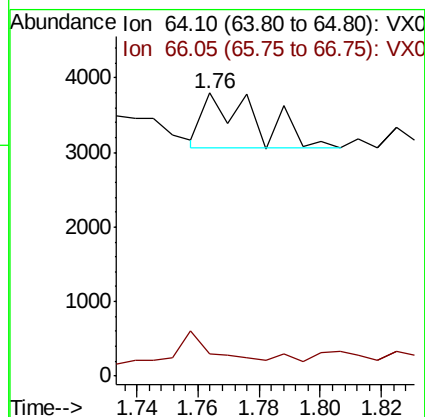
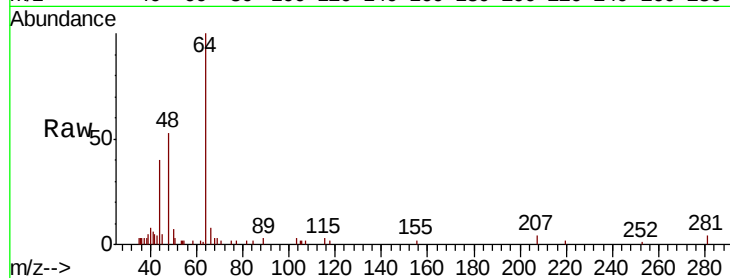
BG3R3

Tot Ion: 64 Resp: 891

Ion Ratio Lower Upper

64 100

66 8.0 21.5 39.9#



#12

1,1-Dichloroethene

Concen: 0.122 ug/L

RT: 2.34 min Scan# 206

Delta R.T. -0.01 min

Lab File: VX018798.D

Acq: 06 Oct 2020 14:41

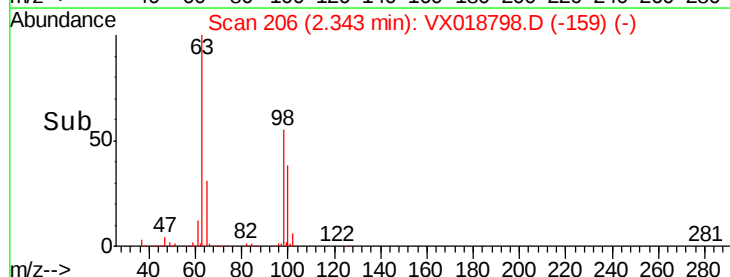
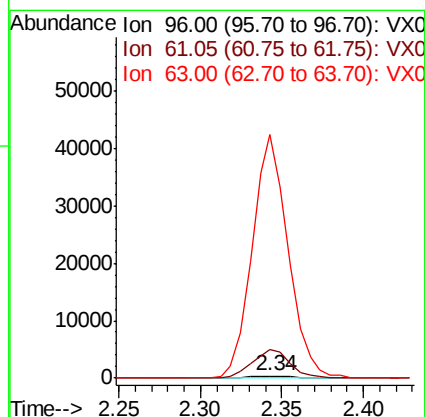
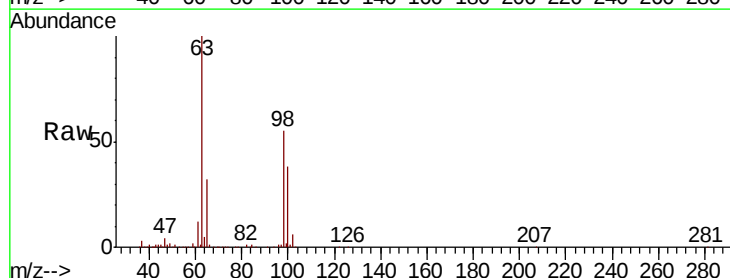
Tgt Ion: 96 Resp: 780

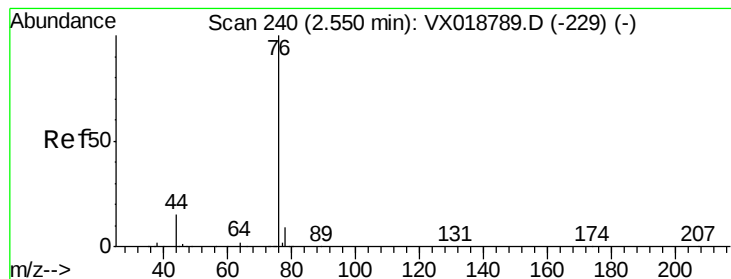
Ion Ratio Lower Upper

96 100

61 1433.1 133.2 247.4#

63 12230.5 115.1 213.7#





#14

Carbon disulfide

Concen: 0.075 ug/L

RT: 2.56 min Scan# 241

Delta R.T. 0.01 min

Lab File: VX018798.D

Acq: 06 Oct 2020 14:41

Instrument :

MSVOA_X

ClientSampleId :

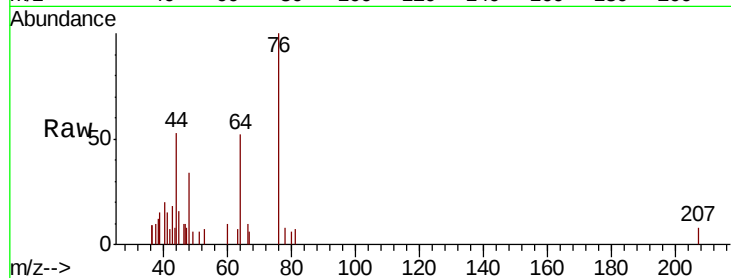
BG3R3

Tot Ion: 76 Resp: 1510

Ion Ratio Lower Upper

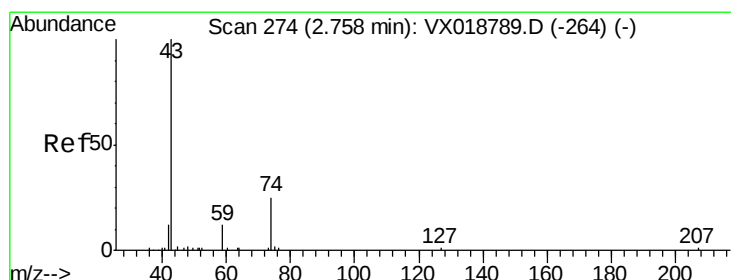
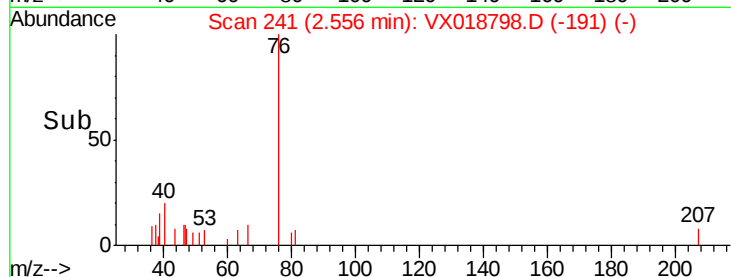
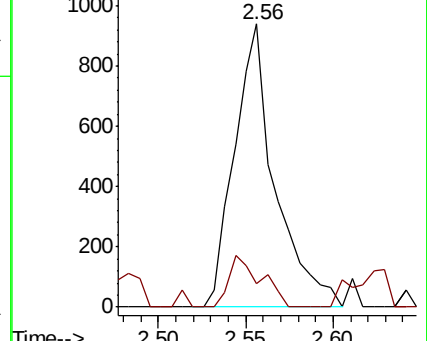
76 100

78 8.2 7.4 11.2



Abundance Ion 76.05 (75.75 to 76.75): VX0

Ion 78.00 (77.70 to 78.70): VX0



#15

Methyl Acetate

Concen: 39.255 ug/L

RT: 2.82 min Scan# 285

Delta R.T. 0.07 min

Lab File: VX018798.D

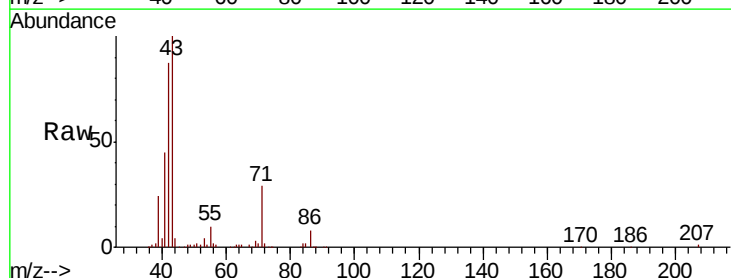
Acq: 06 Oct 2020 14:41

Tgt Ion: 43 Resp: 103674

Ion Ratio Lower Upper

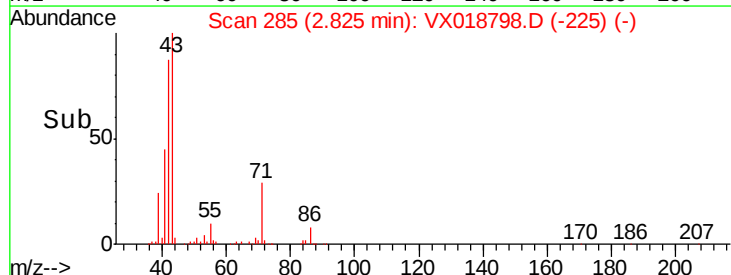
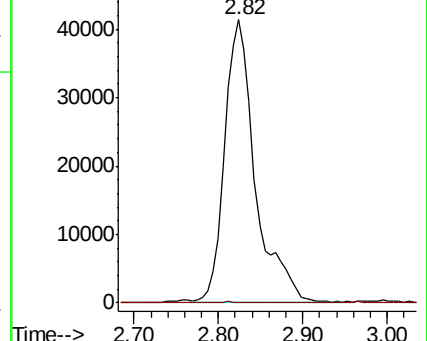
43 100

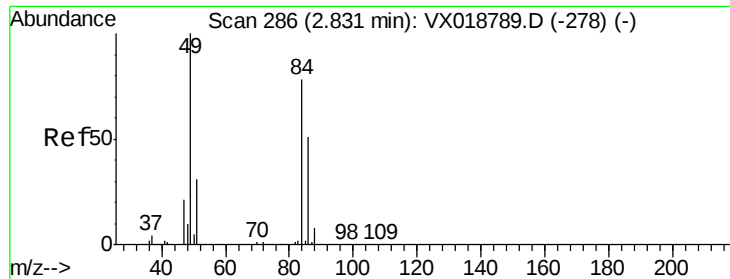
74 0.1 21.9 32.9#



Abundance Ion 43.05 (42.75 to 43.75): VX0

Ion 74.05 (73.75 to 74.75): VX0

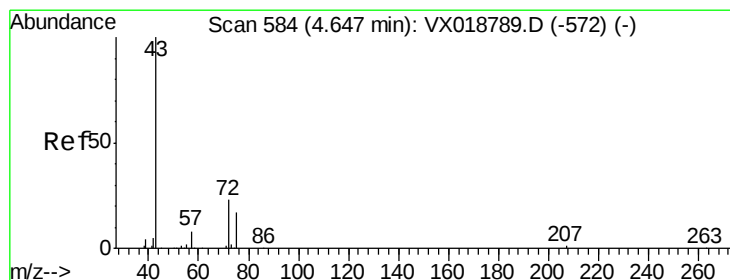
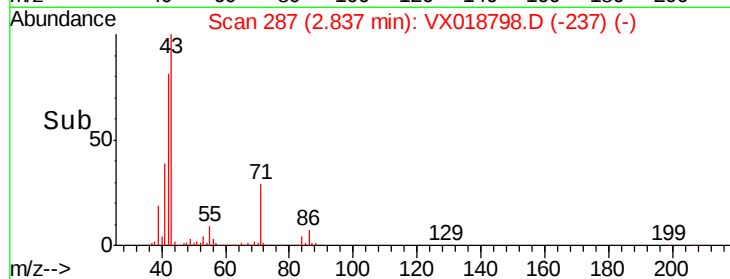
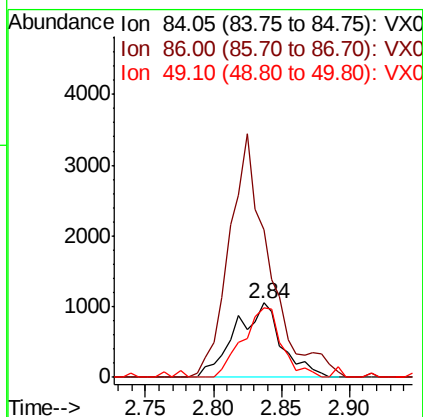
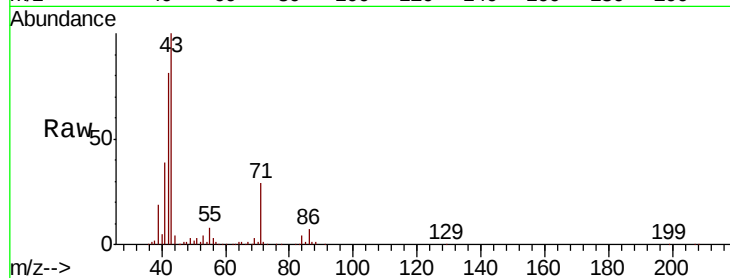




#16
Methvlene chloride
Concen: 0.324 ug/L
RT: 2.84 min Scan# 287
Delta R.T. 0.01 min
Lab File: VX018798.D
Acq: 06 Oct 2020 14:41

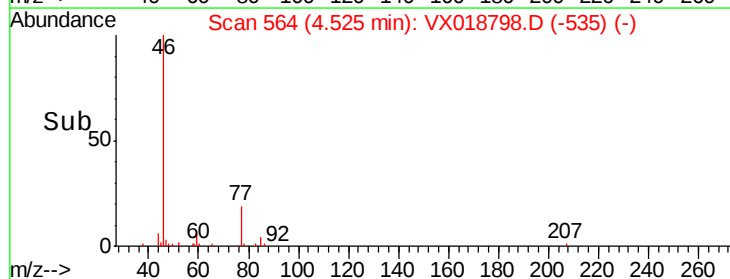
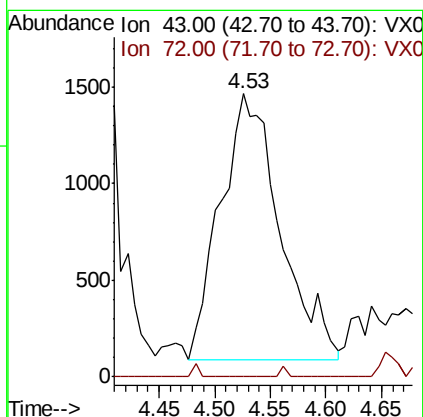
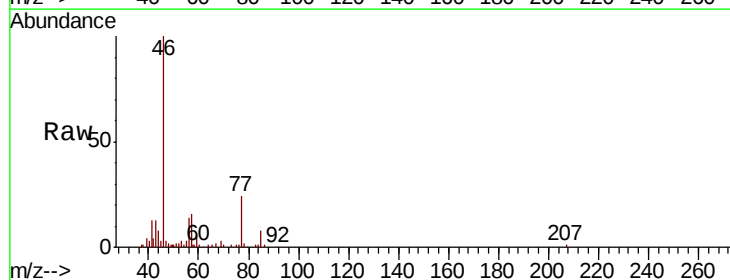
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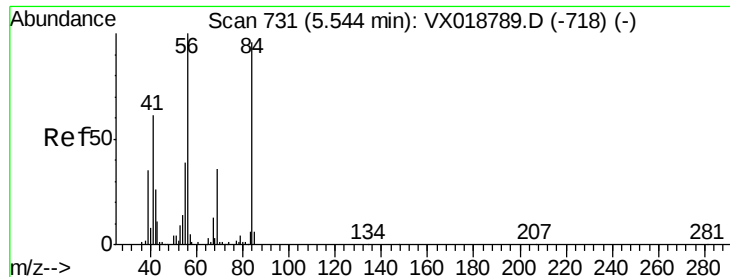
Tot Ion: 84 Resp: 2515
Ion Ratio Lower Upper
84 100
86 199.5 45.6 84.8#
49 93.1 85.8 159.3



#21
2-Butanone
Concen: 3.288 ug/L
RT: 4.53 min Scan# 564
Delta R.T. -0.12 min
Lab File: VX018798.D
Acq: 06 Oct 2020 14:41

Tgt Ion: 43 Resp: 5144
Ion Ratio Lower Upper
43 100
72 0.4 12.4 37.2#

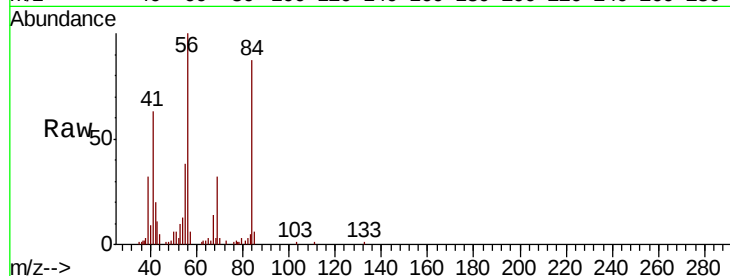




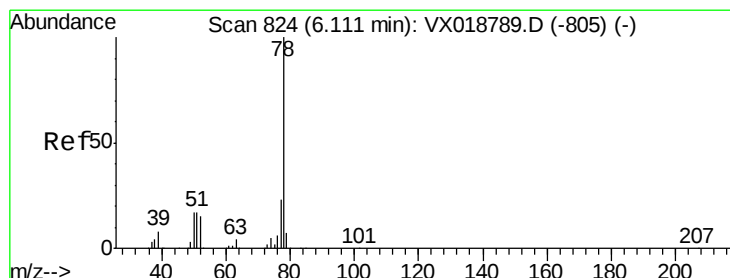
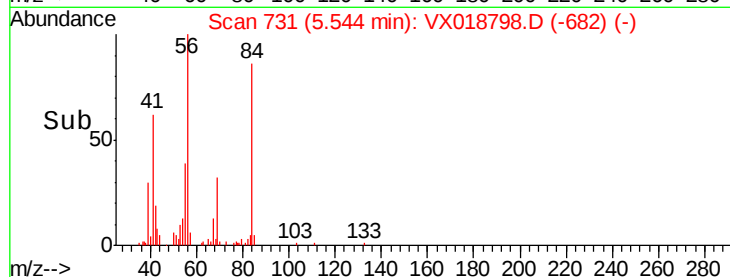
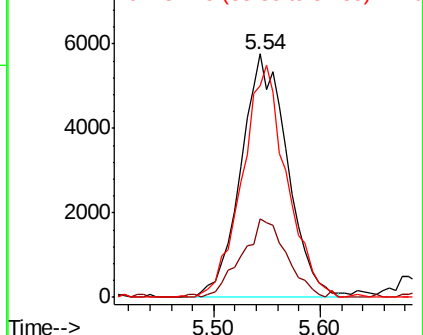
#30
Cyclohexane
Concen: 1.738 ug/L
RT: 5.54 min Scan# 731
Delta R.T. -0.00 min
Lab File: VX018798.D
Acq: 06 Oct 2020 14:41

Instrument :
MSVOA_X
ClientSampleId :
BG3R3

Tot Ion: 56 Resp: 17556
Ion Ratio Lower Upper
56 100
69 31.3 26.0 39.0
84 91.1 73.8 110.6

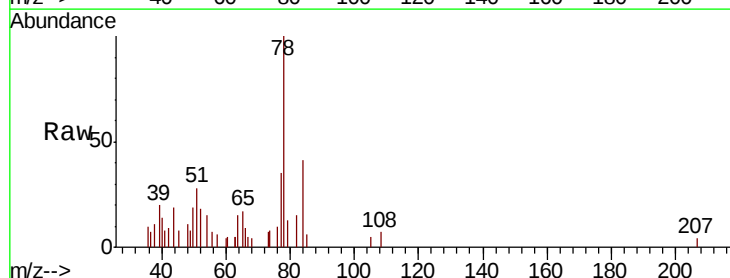


Abundance Ion 56.10 (55.80 to 56.80): VX0
Ion 69.15 (68.85 to 69.85): VX0
Ion 84.15 (83.85 to 84.85): VX0

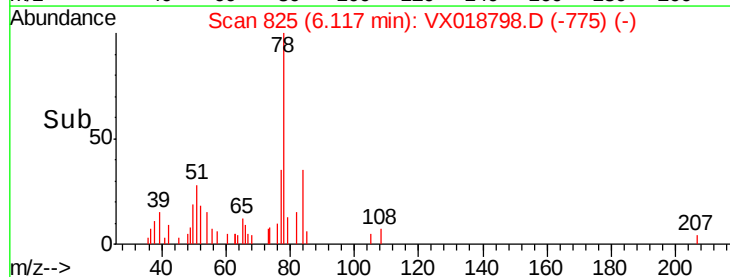
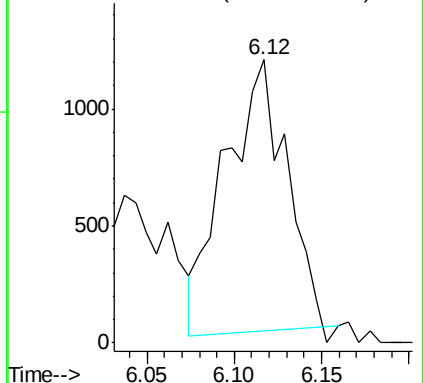


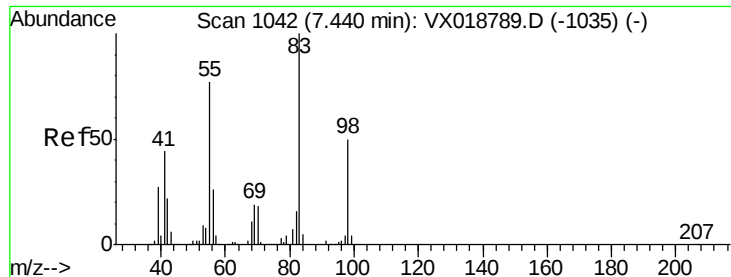
#33
Benzene
Concen: 0.109 ug/L
RT: 6.12 min Scan# 825
Delta R.T. 0.01 min
Lab File: VX018798.D
Acq: 06 Oct 2020 14:41

Tgt Ion: 78 Resp: 2799



Abundance Ion 78.10 (77.80 to 78.80): VX0

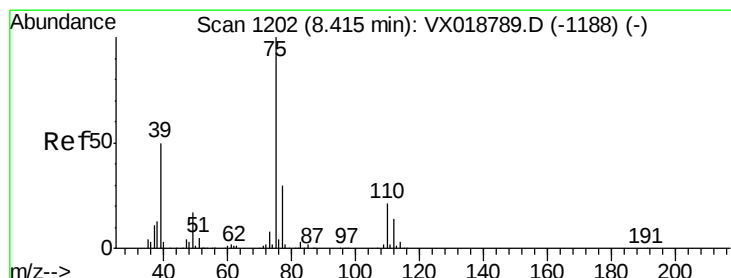
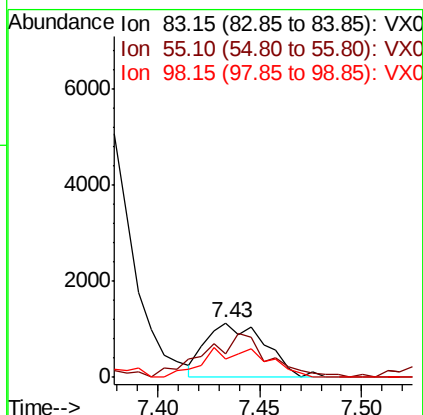
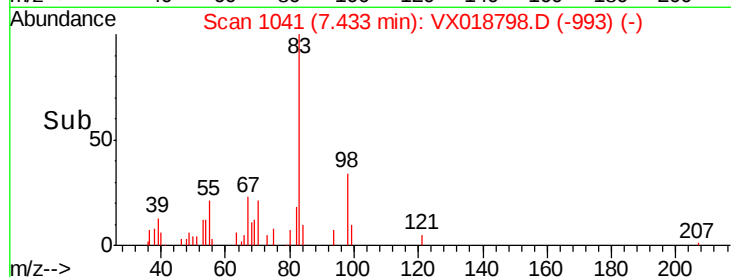
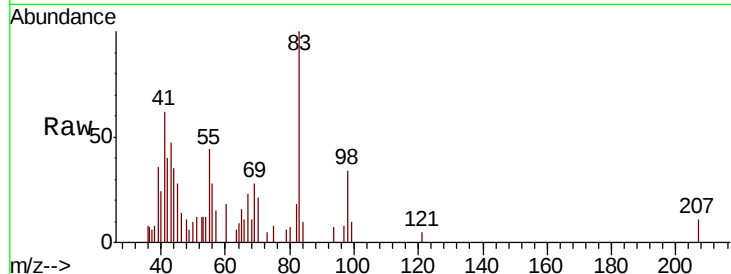




#35
Methylcyclohexane
Concen: 0.212 ug/L
RT: 7.43 min Scan# 1041
Delta R.T. -0.01 min
Lab File: VX018798.D
Acq: 06 Oct 2020 14:41

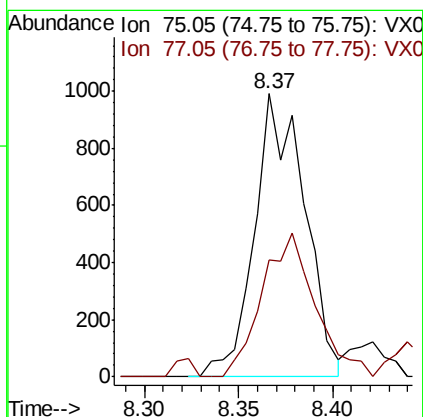
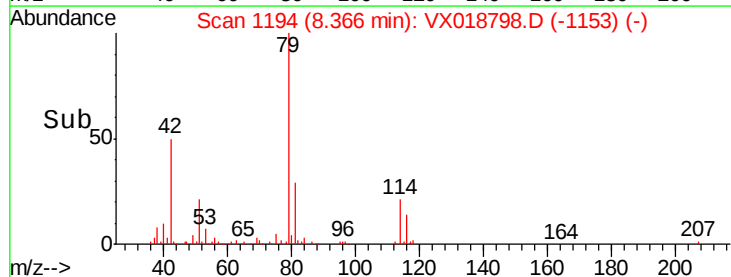
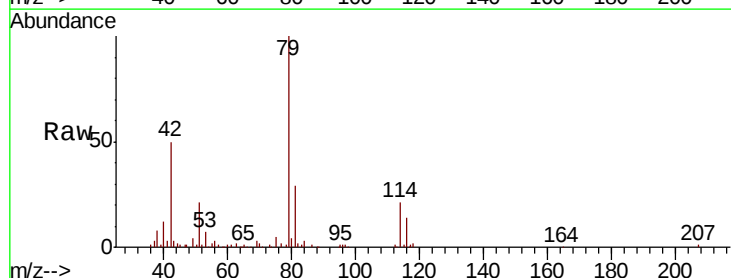
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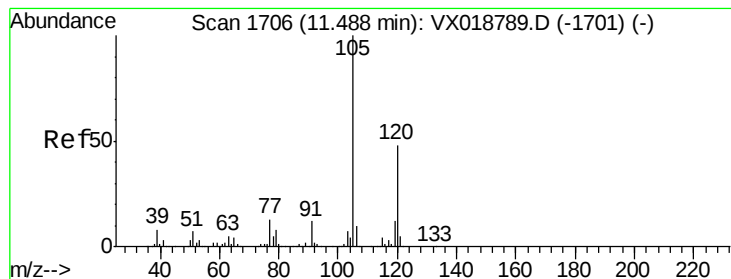
Tot Ion: 83 Resp: 2288
Ion Ratio Lower Upper
83 100
55 86.2 60.3 90.5
98 32.9 39.4 59.0#



#39
cis-1,3-Dichloropropene
Concen: 0.177 ug/L
RT: 8.37 min Scan# 1194
Delta R.T. -0.05 min
Lab File: VX018798.D
Acq: 06 Oct 2020 14:41

Tgt Ion: 75 Resp: 1824
Ion Ratio Lower Upper
75 100
77 41.4 22.5 41.7





#43

1,3,5-Trimethylbenzene

Concen: 0.272 ug/L

RT: 11.49 min Scan# 1706

Delta R.T. -0.00 min

Lab File: VX018798.D

Acq: 06 Oct 2020 14:41

Instrument :

MSVOA_X

ClientSampled :

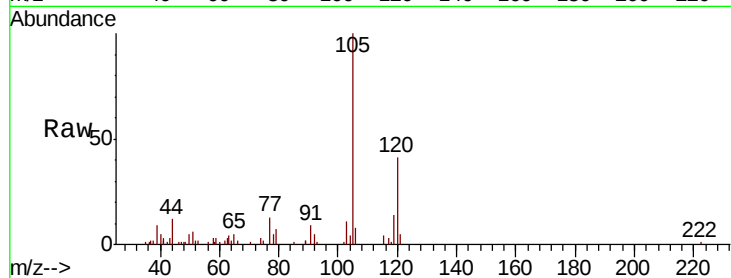
BG3R3

Tot Ion:105 Resp: 7254

Ion Ratio Lower Upper

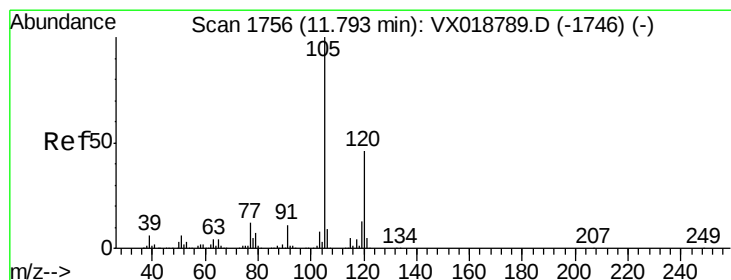
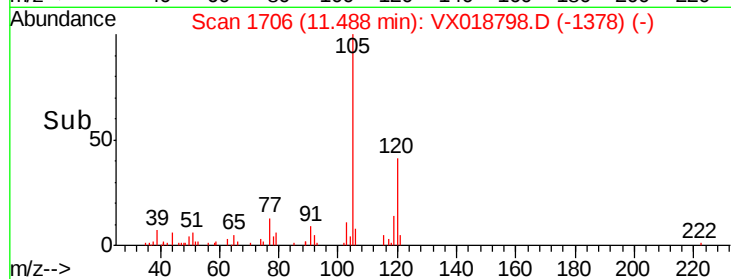
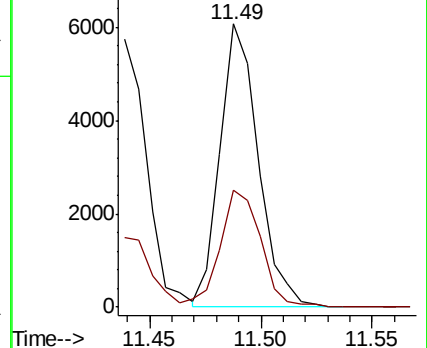
105 100

120 44.0 37.7 56.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#44

1,2,4-Trimethylbenzene

Concen: 0.820 ug/L

RT: 11.79 min Scan# 1756

Delta R.T. -0.00 min

Lab File: VX018798.D

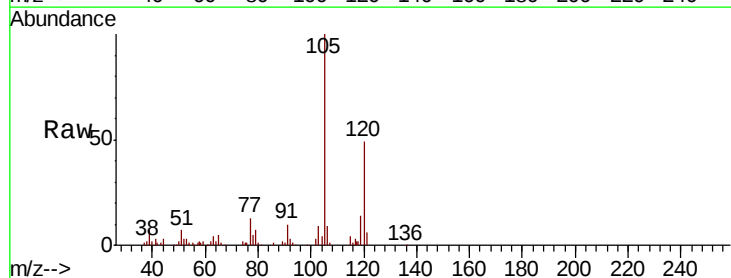
Acq: 06 Oct 2020 14:41

Tgt Ion:105 Resp: 22207

Ion Ratio Lower Upper

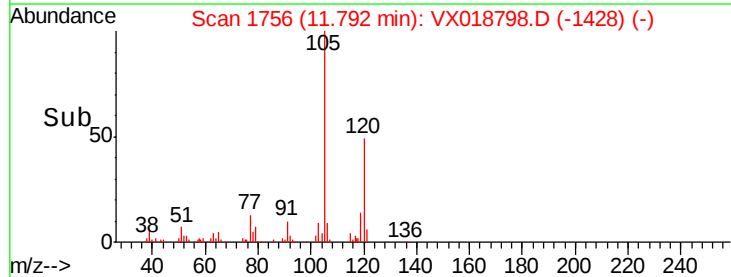
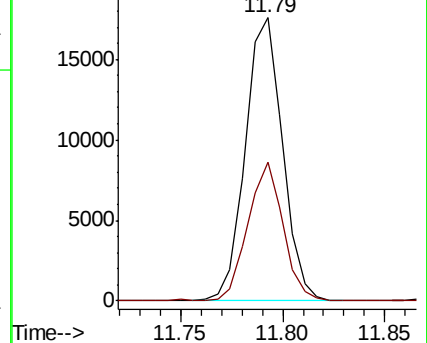
105 100

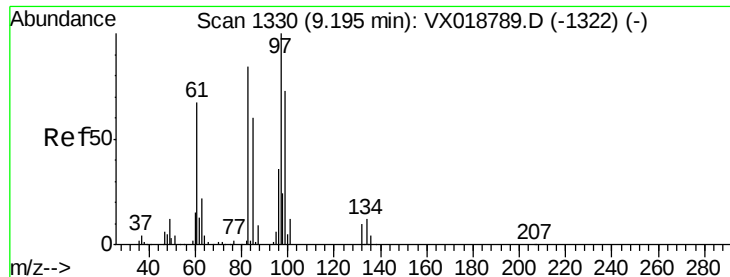
120 46.2 35.1 52.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#47

1,1,2-Trichloroethane

Concen: 0.660 ug/L

RT: 9.15 min Scan# 1322

Delta R.T. -0.05 min

Lab File: VX018798.D

Acq: 06 Oct 2020 14:41

Instrument :

MSVOA_X

ClientSampleId :

BG3R3

Tot Ion: 97 Resp: 3216

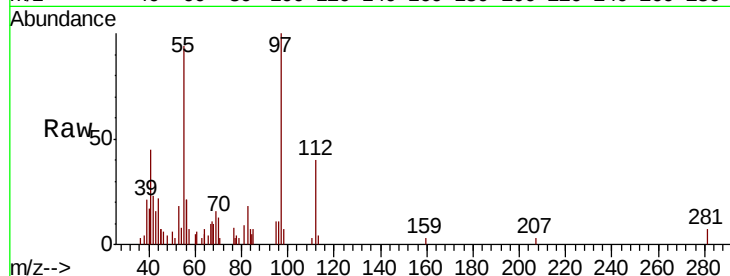
Ion Ratio Lower Upper

97 100

99 0.0 41.1 76.3#

83 18.4 57.5 106.7#

85 7.3 36.9 68.5#

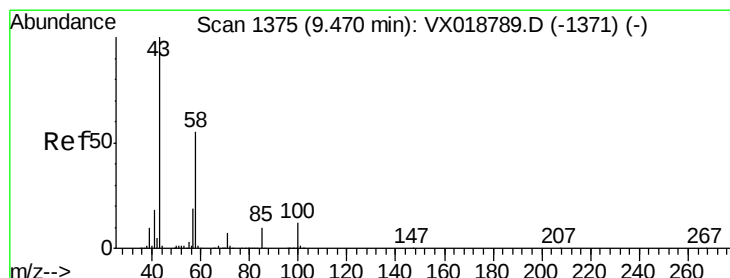
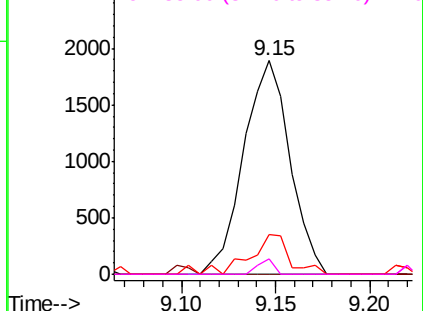
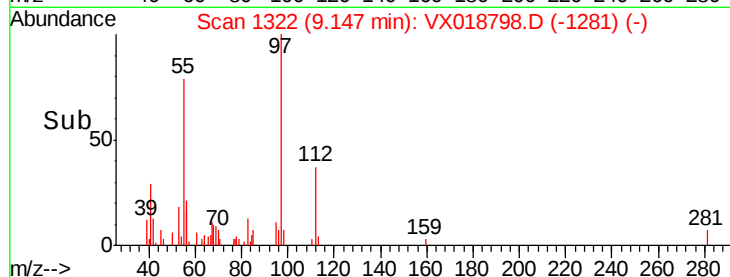


Abundance Ion 96.95 (96.65 to 97.65): VX0

Ion 99.05 (98.75 to 99.75): VX0

Ion 82.95 (82.65 to 83.65): VX0

Ion 85.00 (84.70 to 85.70): VX0



#50

2-Hexanone

Concen: 4.574 ug/L

RT: 9.43 min Scan# 1368

Delta R.T. -0.04 min

Lab File: VX018798.D

Acq: 06 Oct 2020 14:41

Tgt Ion: 43 Resp: 12429

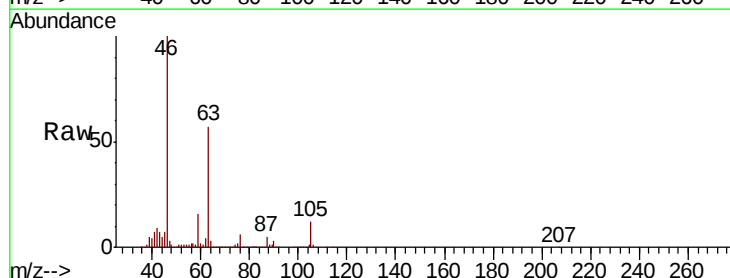
Ion Ratio Lower Upper

43 100

58 29.0 41.0 61.4#

57 26.4 15.9 23.9#

100 0.5 10.1 15.1#

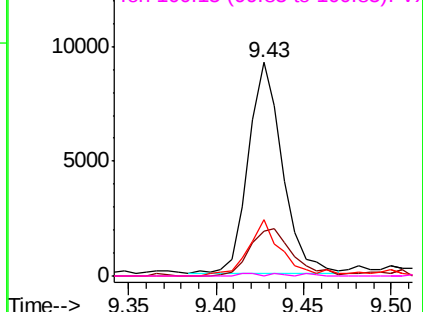
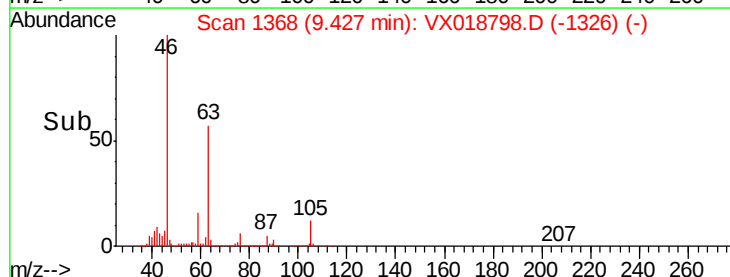


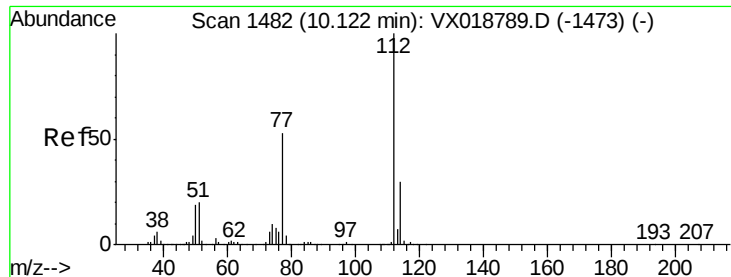
Abundance Ion 43.05 (42.75 to 43.75): VX0

Ion 58.05 (57.75 to 58.75): VX0

Ion 57.20 (56.90 to 57.90): VX0

Ion 100.15 (99.85 to 100.85): VX0





#53

Chlorobenzene

Concen: 22.019 ug/L

RT: 10.12 min Scan# 1482

Delta R.T. -0.00 min

Lab File: VX018798.D

Acq: 06 Oct 2020 14:41

Instrument :

MSVOA_X

ClientSampled :

BG3R3

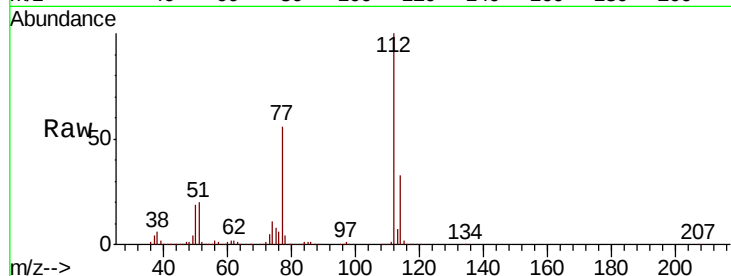
Tot Ion:112 Resp: 424839

Ion Ratio Lower Upper

112 100

114 32.9 21.3 39.5

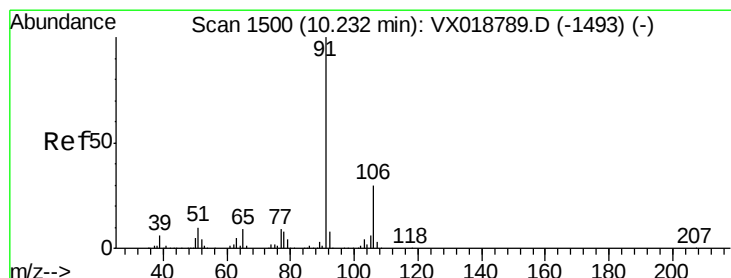
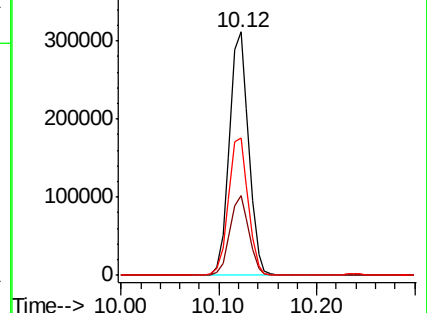
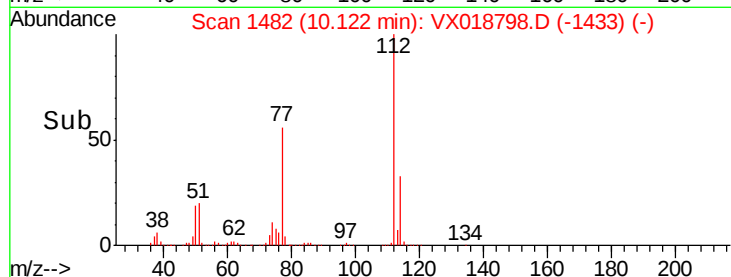
77 56.4 42.4 63.6



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): V



#54

Ethylbenzene

Concen: 0.882 ug/L

RT: 10.24 min Scan# 1501

Delta R.T. 0.01 min

Lab File: VX018798.D

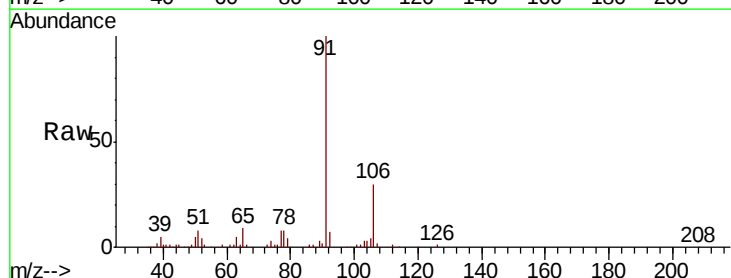
Acq: 06 Oct 2020 14:41

Tgt Ion: 91 Resp: 27878

Ion Ratio Lower Upper

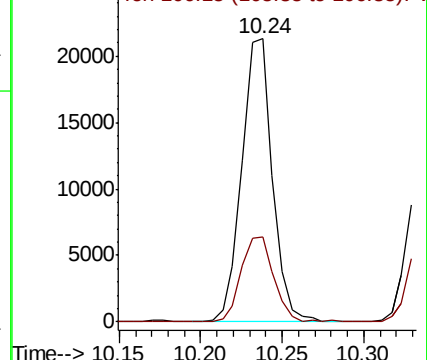
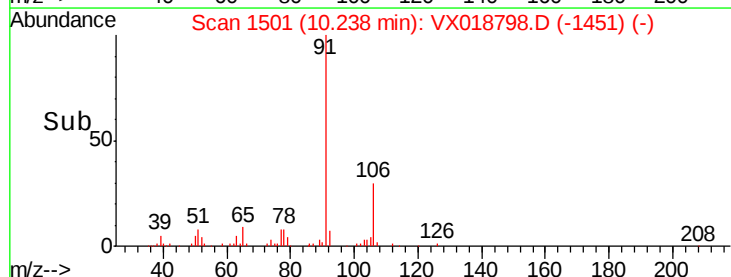
91 100

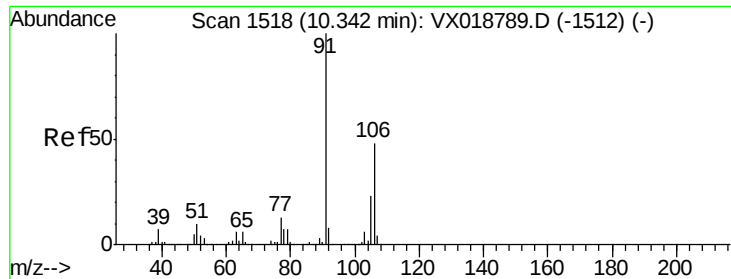
106 30.1 21.5 39.9



Abundance Ion 91.15 (90.85 to 91.85): VX0

Ion 106.15 (105.85 to 106.85): V





#55

m,p-xylene

Concen: 1.268 ug/L

RT: 10.34 min Scan# 1518

Delta R.T. -0.00 min

Lab File: VX018798.D

Acq: 06 Oct 2020 14:41

Instrument :

MSVOA_X

ClientSampleId :

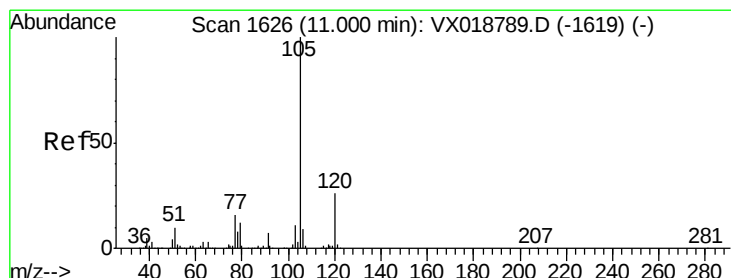
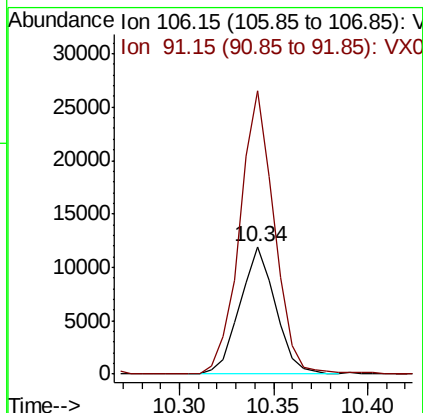
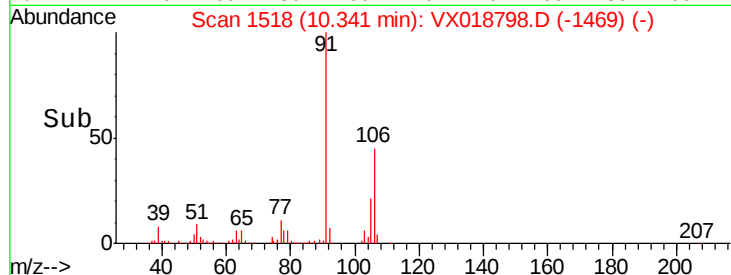
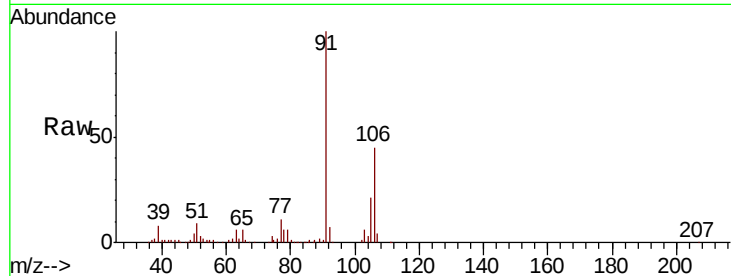
BG3R3

Tot Ion:106 Resp: 15641

Ion Ratio Lower Upper

106 100

91 222.2 143.4 266.2



#58

Isopropylbenzene

Concen: 0.139 ug/L

RT: 11.00 min Scan# 1626

Delta R.T. -0.00 min

Lab File: VX018798.D

Acq: 06 Oct 2020 14:41

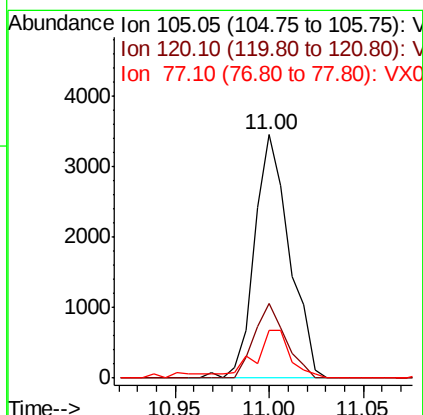
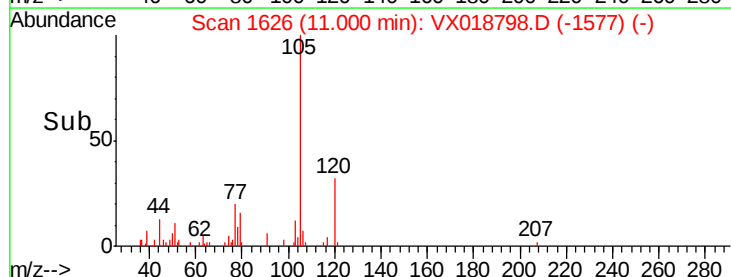
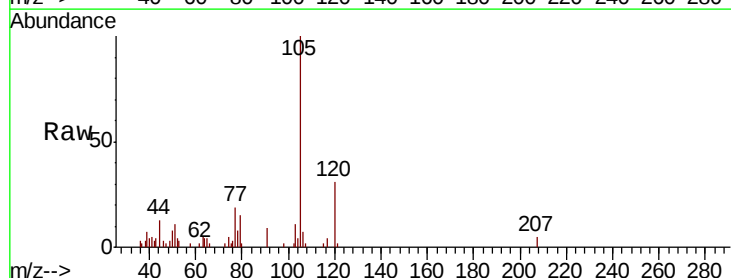
Tgt Ion:105 Resp: 4425

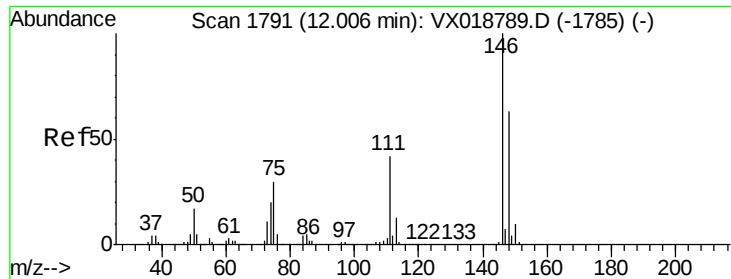
Ion Ratio Lower Upper

105 100

120 27.8 20.2 30.2

77 19.5 13.3 19.9

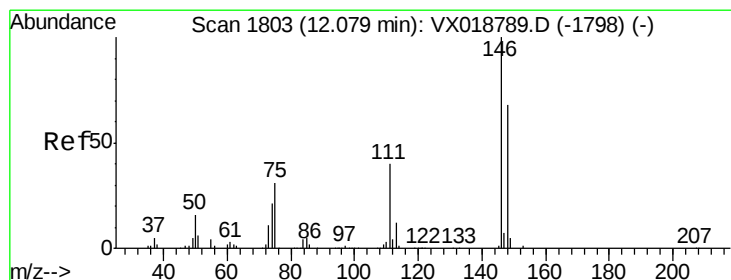
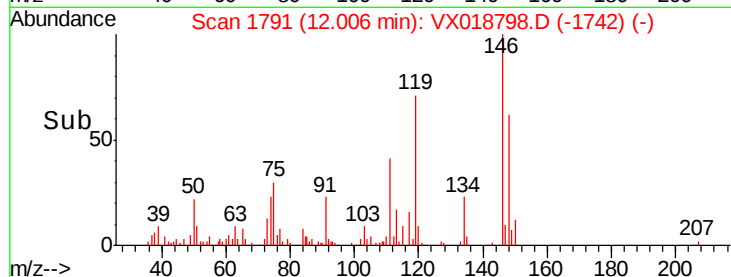
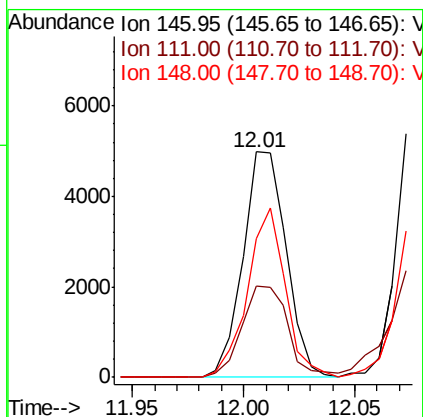
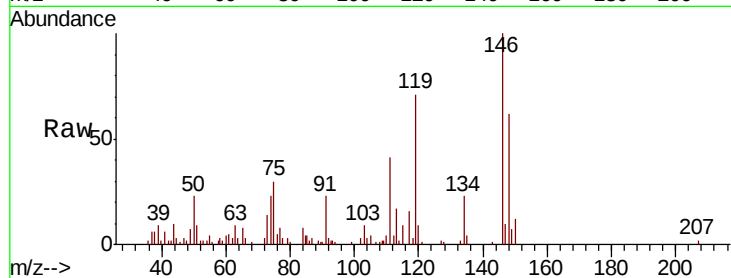




#63
 1,3-Dichlorobenzene
 Concen: 0.477 ug/L
 RT: 12.01 min Scan# 1791
 Delta R.T. -0.00 min
 Lab File: VX018798.D
 Acq: 06 Oct 2020 14:41

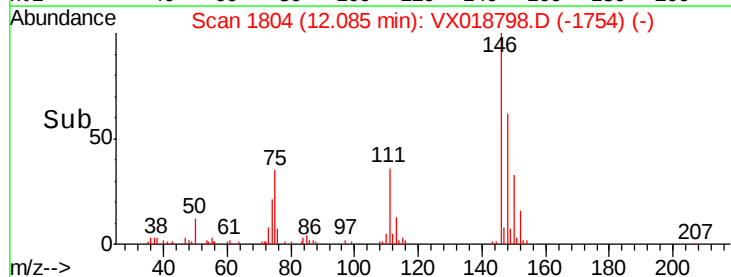
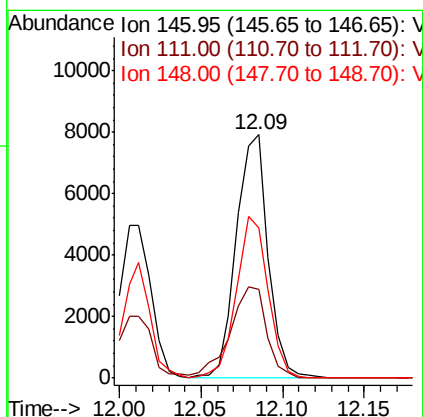
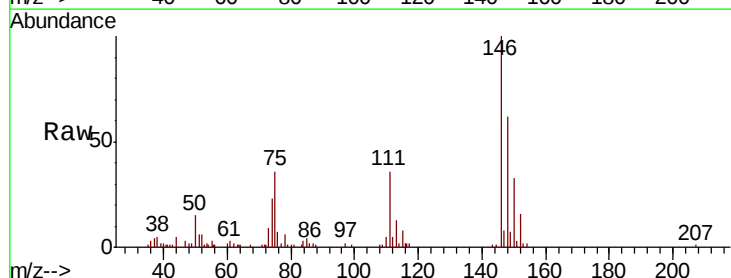
Instrument :
 MSVOA_X
 ClientSampleId :
 BG3R3

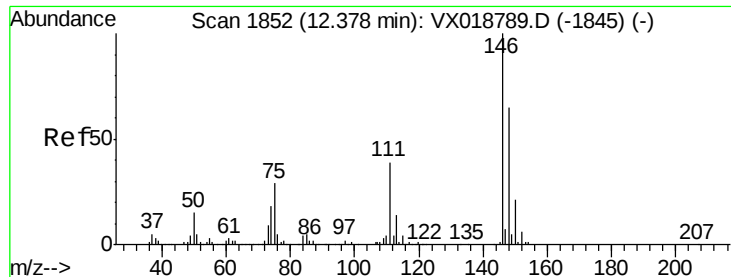
Tot Ion:146 Resp: 6755
 Ion Ratio Lower Upper
 146 100
 111 40.7 28.4 52.8
 148 61.5 45.9 85.3



#64
 1,4-Dichlorobenzene
 Concen: 0.763 ug/L
 RT: 12.09 min Scan# 1804
 Delta R.T. 0.01 min
 Lab File: VX018798.D
 Acq: 06 Oct 2020 14:41

Tgt Ion:146 Resp: 10785
 Ion Ratio Lower Upper
 146 100
 111 36.5 28.6 53.2
 148 61.8 44.2 82.0

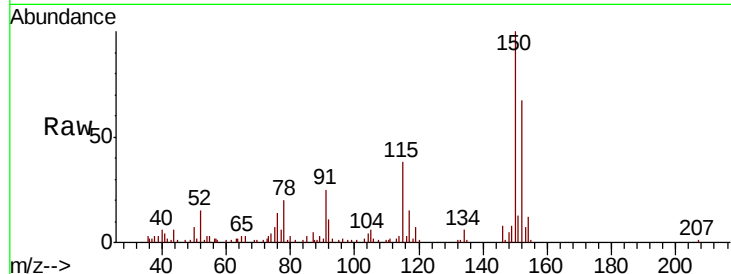




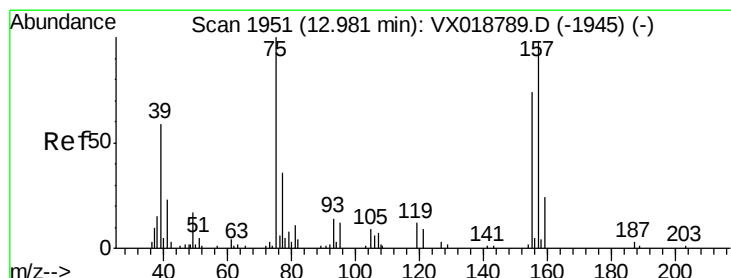
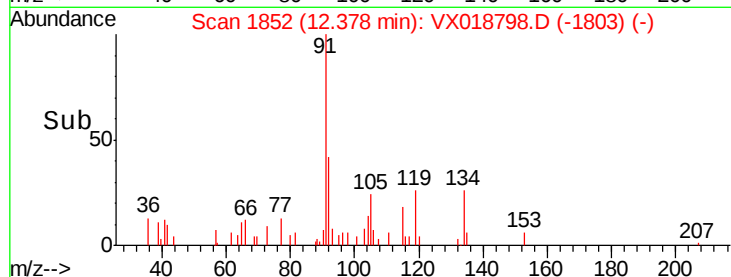
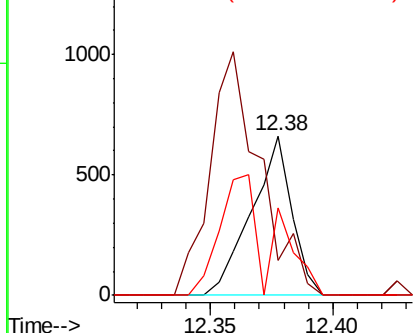
#66
 1,2-Dichlorobenzene
 Concen: 0.058 ug/L
 RT: 12.38 min Scan# 1852
 Delta R.T. -0.00 min
 Lab File: VX018798.D
 Acq: 06 Oct 2020 14:41

Instrument :
 MSVOA_X
 ClientSampled :
 BG3R3

Tot Ion:146 Resp: 763
 Ion Ratio Lower Upper
 146 100
 111 21.9 31.7 47.5#
 148 55.2 49.0 73.6

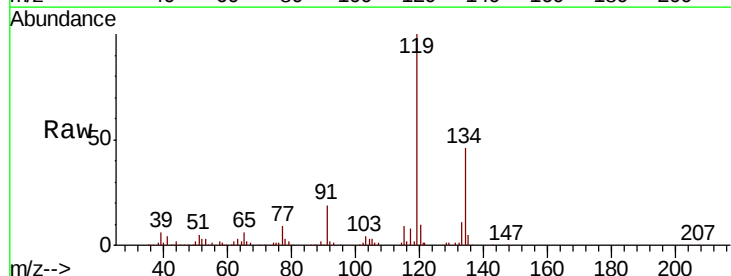


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

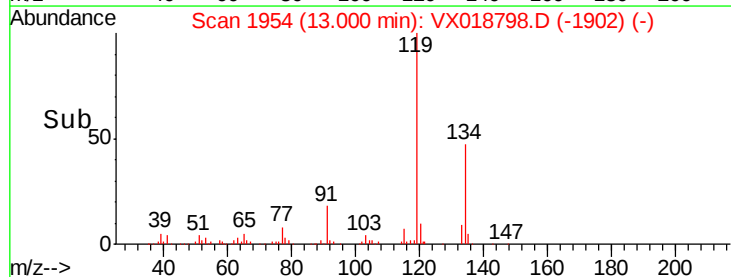
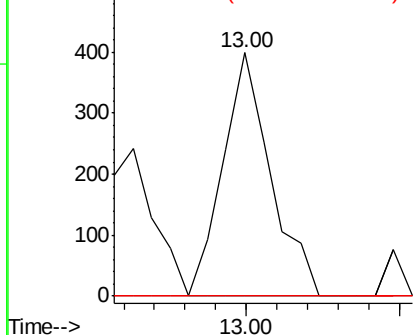


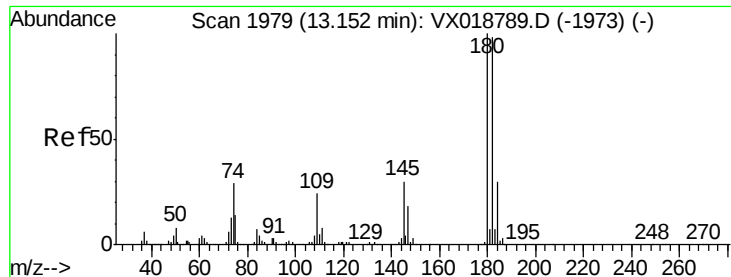
#67
 1,2-Dibromo-3-chloropropane
 Concen: 0.382 ug/L
 RT: 13.00 min Scan# 1954
 Delta R.T. 0.02 min
 Lab File: VX018798.D
 Acq: 06 Oct 2020 14:41

Tgt Ion: 75 Resp: 430
 Ion Ratio Lower Upper
 75 100
 155 0.0 61.1 91.7#
 157 0.0 74.2 111.2#



Abundance Ion 75.05 (74.75 to 75.75): VX0
 Ion 154.95 (154.65 to 155.65): V
 Ion 156.90 (156.60 to 157.60): V

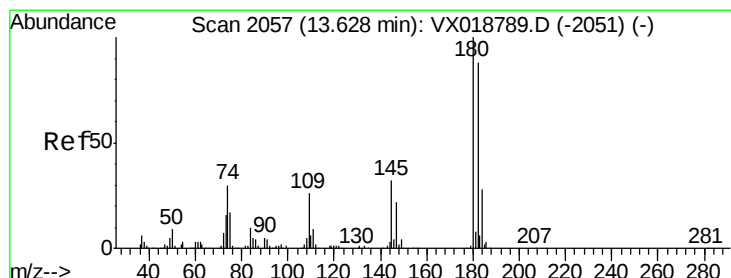
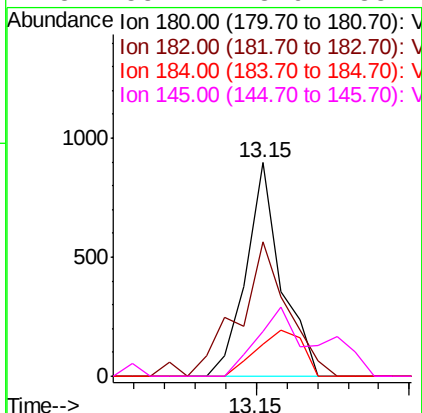
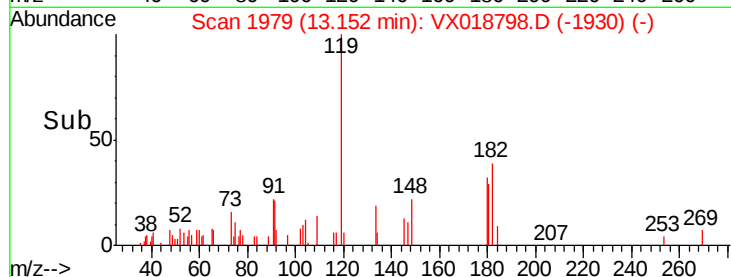
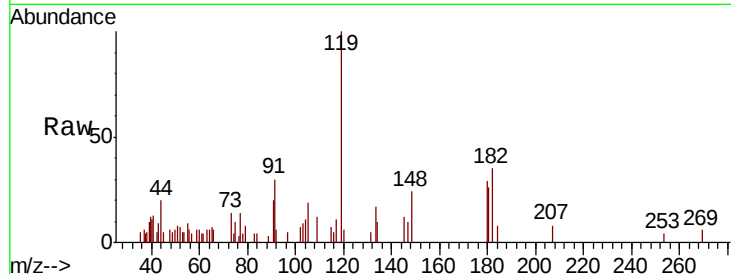




#68
 1,3,5-Trichlorobenzene
 Concen: 0.066 ug/L
 RT: 13.15 min Scan# 1979
 Delta R.T. -0.00 min
 Lab File: VX018798.D
 Acq: 06 Oct 2020 14:41

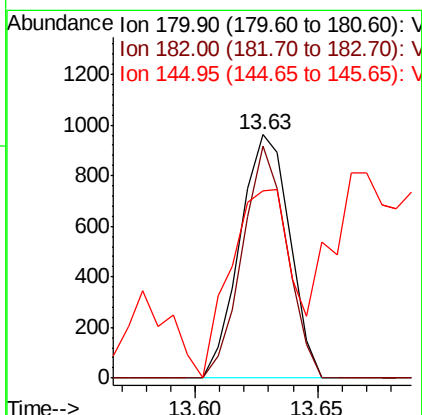
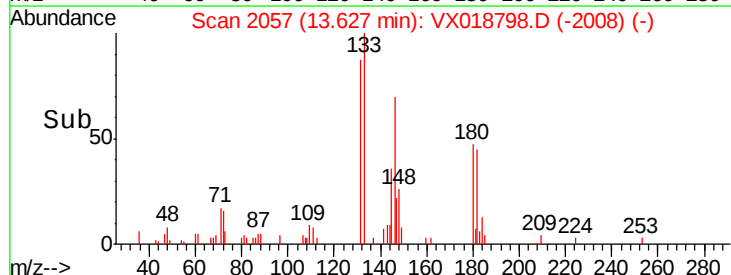
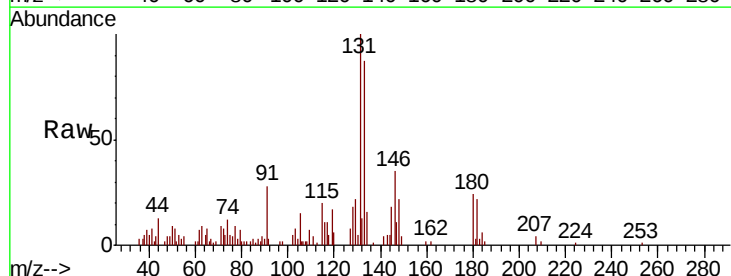
Instrument :
 MSVOA_X
 ClientSampled :
 BG3R3

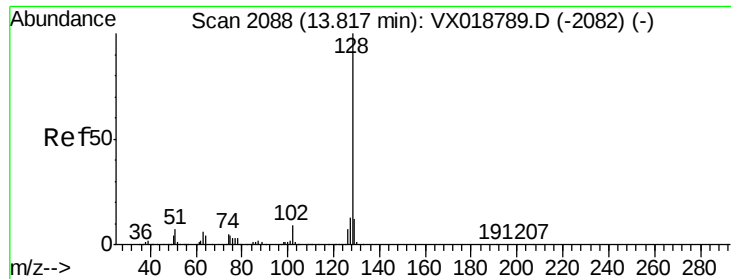
Tot Ion:180 Resp: 716
 Ion Ratio Lower Upper
 180 100
 182 89.8 74.1 111.1
 184 28.2 23.4 35.2
 145 55.4 23.6 35.4#



#69
 1,2,4-trichlorobenzene
 Concen: 0.151 ug/L
 RT: 13.63 min Scan# 2057
 Delta R.T. -0.00 min
 Lab File: VX018798.D
 Acq: 06 Oct 2020 14:41

Tgt Ion:180 Resp: 1363
 Ion Ratio Lower Upper
 180 100
 182 85.5 80.2 120.4
 145 96.0 25.2 37.8#





#70

Naphthalene

Concen: 0.193 ug/L

RT: 13.82 min Scan# 2088

Delta R.T. -0.00 min

Lab File: VX018798.D

Acq: 06 Oct 2020 14:41

Instrument :

MSVOA_X

ClientSampleId :

BG3R3

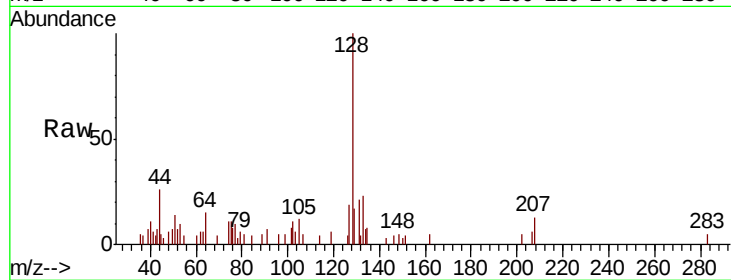
Tot Ion:128 Resp: 2852

Ion Ratio Lower Upper

128 100

129 17.3 9.0 13.4#

127 21.5 10.5 15.7#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

