

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX100720\
 Data File : VX018819.D
 Acq On : 07 Oct 2020 18:31
 Operator : JC/SP
 Sample : L4240-10DL 5X
 Misc : 25.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BG3S8DL

Quant Time: Oct 08 01:19:42 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\SOMXTR100220WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu Oct 08 01:16:58 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.83	114	136715	5.00	ug/L	0.00
28) Chlorobenzene-d5	10.10	117	133814	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	12.06	152	65695	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	33003	4.13	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	82.60%
7) Chloroethane-d5	1.70	69	34482	5.52	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	110.40%
11) 1,1-Dichloroethene-d2	2.34	63	61526	3.42	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	68.40%
20) 2-Butanone-d5	4.54	46	150676	71.93	ug/L	-0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	143.86%#
24) Chloroform-d	5.14	84	100818	5.22	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	104.40%
26) 1,2-Dichloroethane-d4	6.03	65	59254	5.02	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	100.40%
32) Benzene-d6	6.05	84	176244	5.30	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	106.00%
36) 1,2-Dichloropropane-d6	7.37	67	55178	5.74	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	114.80%
41) Toluene-d8	8.70	98	157312	4.80	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.00%
45) trans-1,3-Dichloropropene-	8.99	79	24750	4.78	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	95.60%
48) 2-Hexanone-d5	9.43	63	120522	69.53	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	139.06%#
59) 1,1,2,2-Tetrachloroethane-	11.23	84	45712	5.85	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	117.00%
65) 1,2-Dichlorobenzene-d4	12.36	152	69425	5.73	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	114.60%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
8) Chloroethane	1.82	64	1278	0.286	ug/L #	59
12) 1,1-Dichloroethene	2.34	96	824	0.121	ug/L #	1
13) Acetone	2.45	43	1273	1.113	ug/L	97
14) Carbon disulfide	2.56	76	2243	0.105	ug/L #	71
15) Methyl Acetate	2.87	43	1433665	510.044	ug/L #	48
16) Methylene chloride	2.84	84	7547	0.914	ug/L #	13
19) 1,1-Dichloroethane	3.50	63	14532	1.121	ug/L #	1
30) Cyclohexane	5.54	56	13029	1.187	ug/L	95
33) Benzene	6.10	78	2007	0.072	ug/L	100
35) Methylcyclohexane	7.43	83	3638	0.310	ug/L #	85
37) 1,2-Dichloropropane	7.37	63	7159	1.020	ug/L #	83
39) cis-1,3-Dichloropropene	8.38	75	1964	0.175	ug/L	87
43) 1,3,5-Trimethylbenzene	11.49	105	1728	0.060	ug/L	98
44) 1,2,4-Trimethylbenzene	11.79	105	4448	0.151	ug/L	95
47) 1,1,2-Trichloroethane	9.15	97	6215	1.173	ug/L #	22
50) 2-Hexanone	9.43	43	16411	5.556	ug/L #	67
53) Chlorobenzene	10.12	112	427243	20.370	ug/L	94

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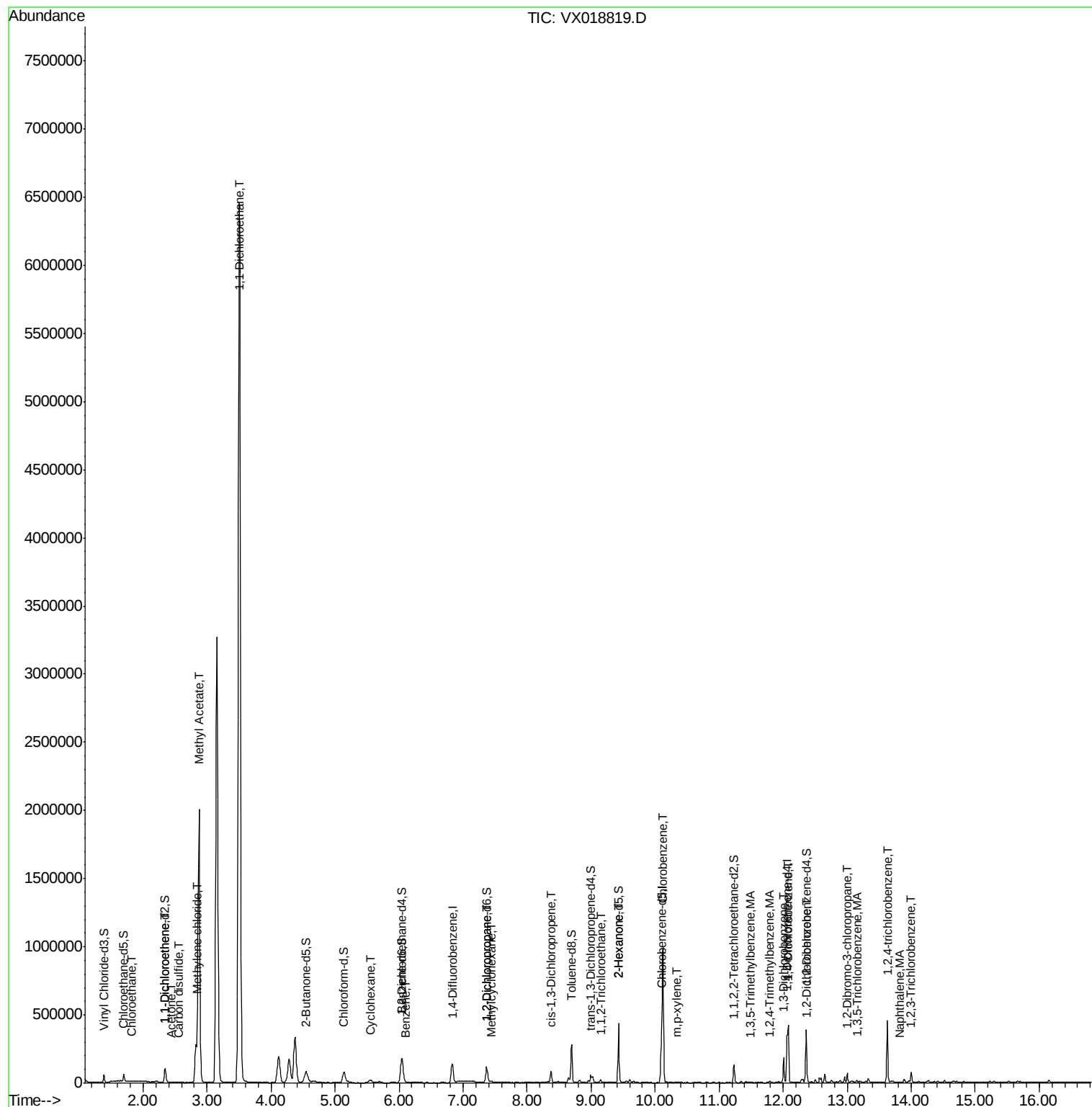
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
55) m,p-xylene	10.34	106	1393	0.104	ug/L	91
63) 1,3-Dichlorobenzene	12.01	146	56968	3.568	ug/L	93
64) 1,4-Dichlorobenzene	12.08	146	122476	7.691	ug/L	97
66) 1,2-Dichlorobenzene	12.38	146	8578	0.575	ug/L	97
67) 1,2-Dibromo-3-chloropropan	12.99	75	350	0.275	ug/L #	7
68) 1,3,5-Trichlorobenzene	13.15	180	2480	0.202	ug/L #	92
69) 1,2,4-trichlorobenzene	13.63	180	105086	10.299	ug/L	97
70) Naphthalene	13.82	128	1311	0.079	ug/L #	82
71) 1,2,3-Trichlorobenzene	14.01	180	16921	1.843	ug/L #	90

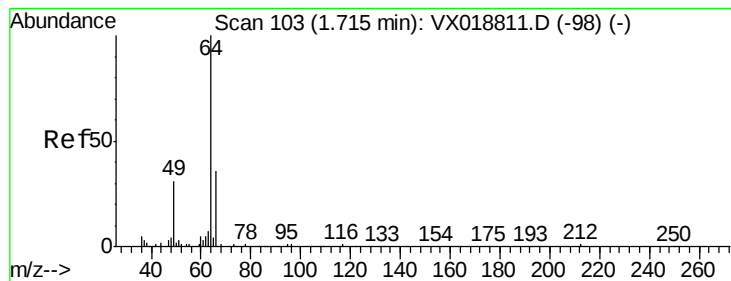
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#8

Chloroethane

Concen: 0.286 ug/L

RT: 1.82 min Scan# 121

Delta R.T. 0.11 min

Lab File: VX018819.D

Acq: 07 Oct 2020 18:31

Instrument :

MSVOA_X

ClientSampleId :

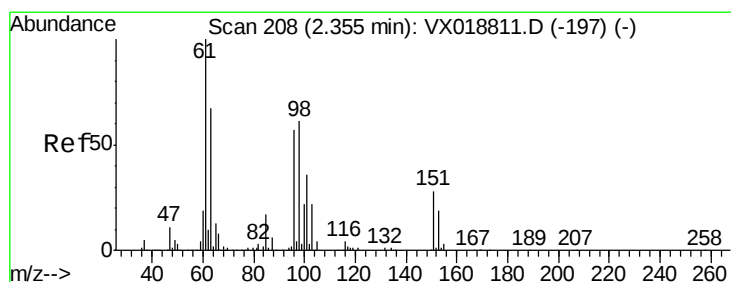
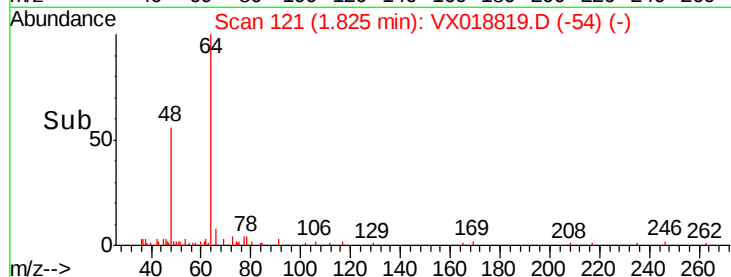
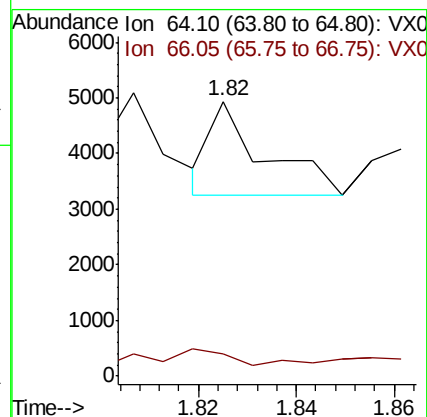
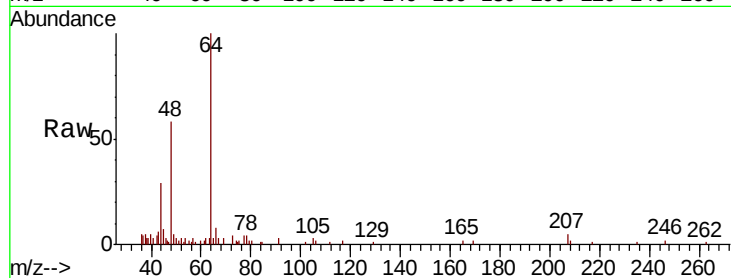
BG3S8DL

Tot Ion: 64 Resp: 1278

Ion Ratio Lower Upper

64 100

66 8.0 21.5 39.9#



#12

1,1-Dichloroethene

Concen: 0.121 ug/L

RT: 2.34 min Scan# 206

Delta R.T. -0.01 min

Lab File: VX018819.D

Acq: 07 Oct 2020 18:31

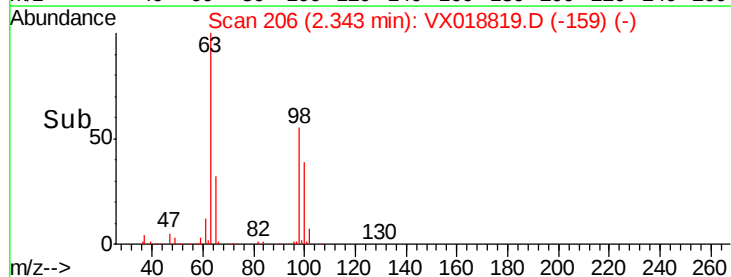
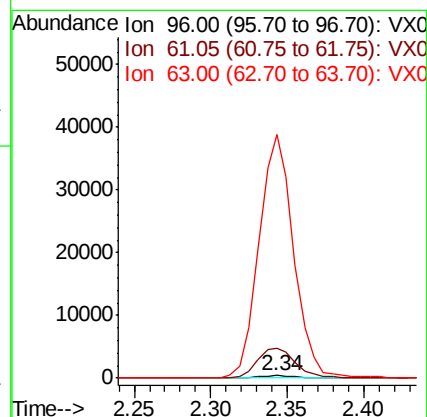
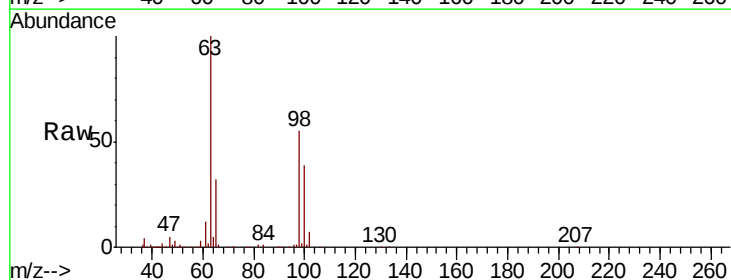
Tgt Ion: 96 Resp: 824

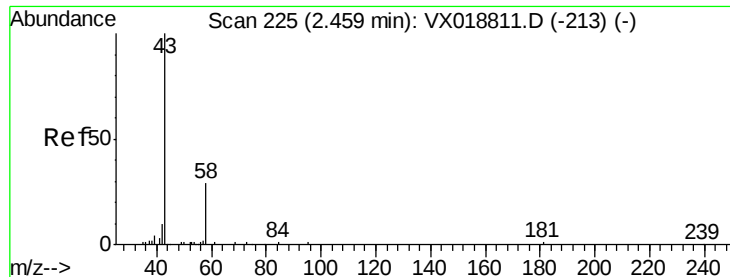
Ion Ratio Lower Upper

96 100

61 1168.5 133.2 247.4#

63 9706.0 115.1 213.7#





#13

Acetone

Concen: 1.113 ug/L

RT: 2.45 min Scan# 223

Delta R.T. -0.01 min

Lab File: VX018819.D

Acq: 07 Oct 2020 18:31

Instrument :

MSVOA_X

ClientSampleId :

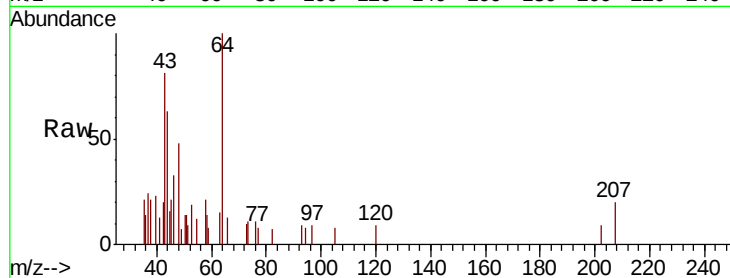
BG3S8DL

Tot Ion: 43 Resp: 1273

Ion Ratio Lower Upper

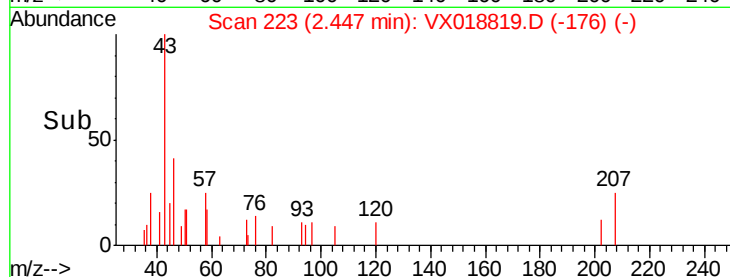
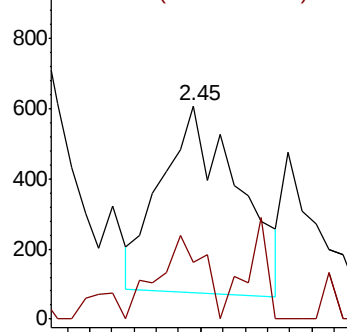
43 100

58 26.9 0.0 56.4

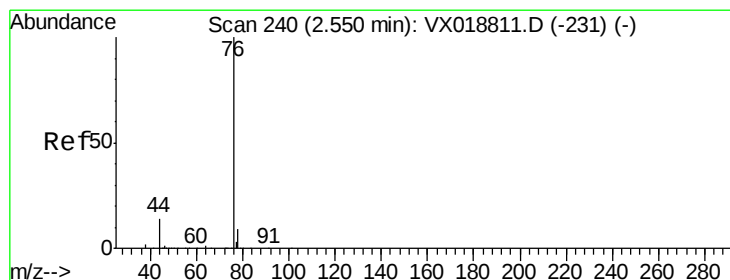


Abundance Ion 43.05 (42.75 to 43.75): VX0

Ion 58.05 (57.75 to 58.75): VX0



Time-->



#14

Carbon disulfide

Concen: 0.105 ug/L

RT: 2.56 min Scan# 241

Delta R.T. 0.01 min

Lab File: VX018819.D

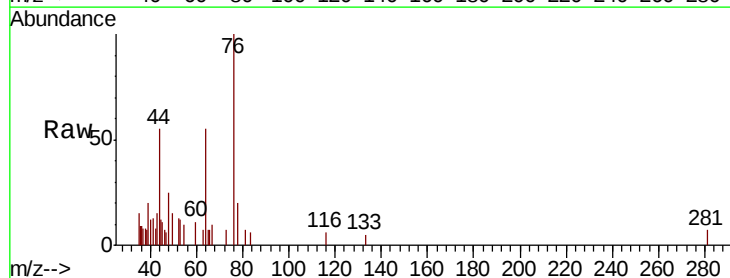
Acq: 07 Oct 2020 18:31

Tgt Ion: 76 Resp: 2243

Ion Ratio Lower Upper

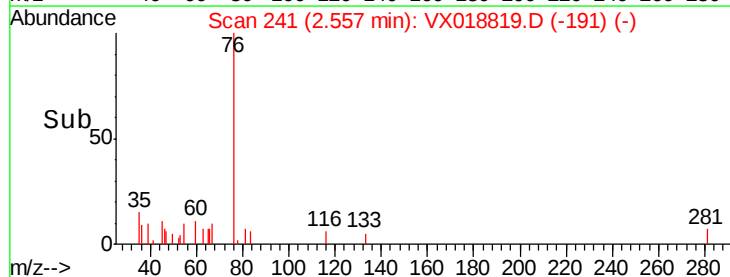
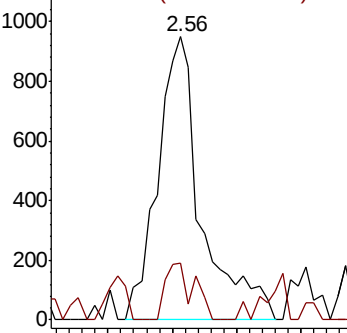
76 100

78 19.9 7.4 11.2#

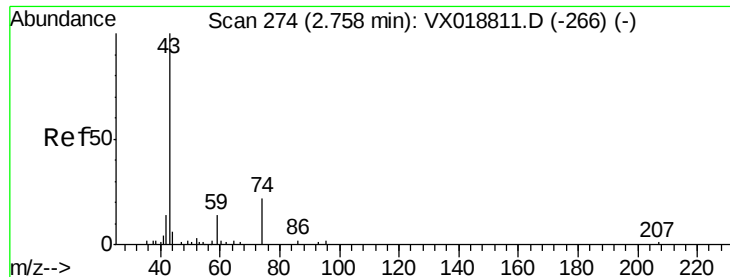


Abundance Ion 76.05 (75.75 to 76.75): VX0

Ion 78.00 (77.70 to 78.70): VX0



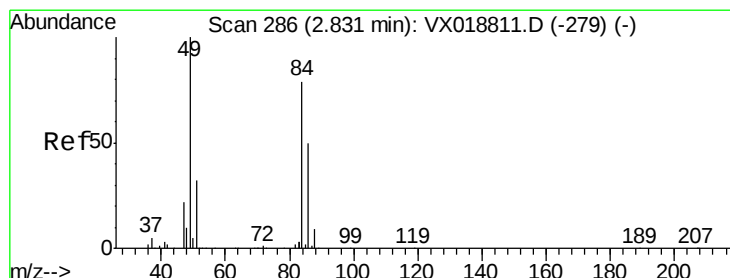
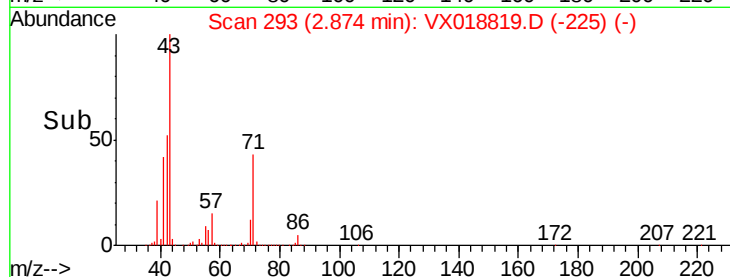
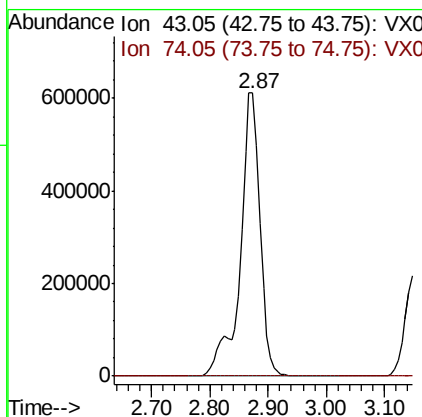
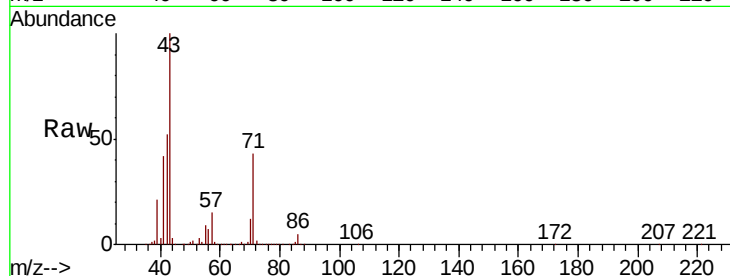
Time-->



#15
Methyl Acetate
Concen: 510.044 ug/L
RT: 2.87 min Scan# 293
Delta R.T. 0.12 min
Lab File: VX018819.D
Acq: 07 Oct 2020 18:31

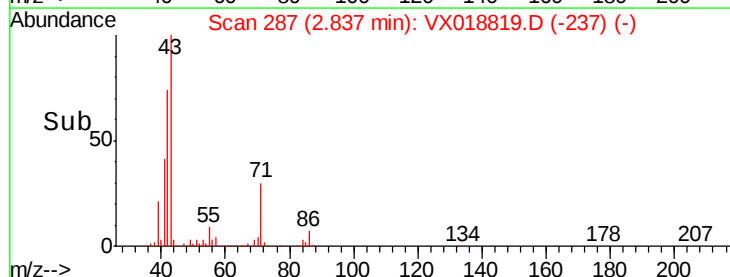
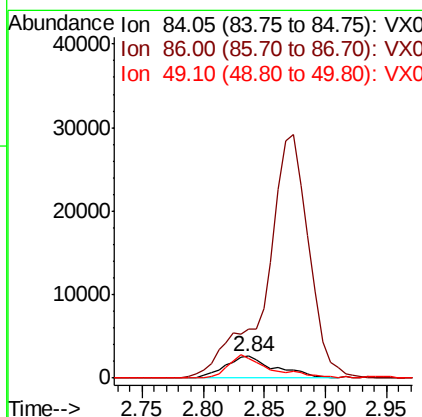
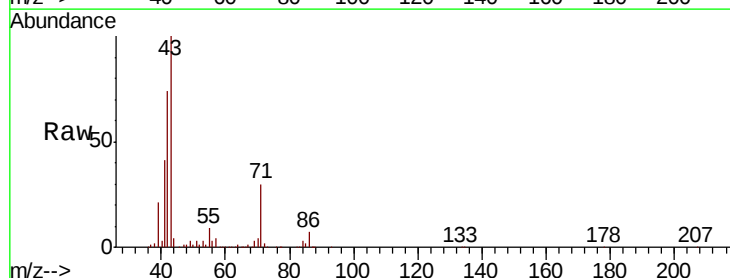
Instrument :
MSVOA_X
ClientSampled :
BG3S8DL

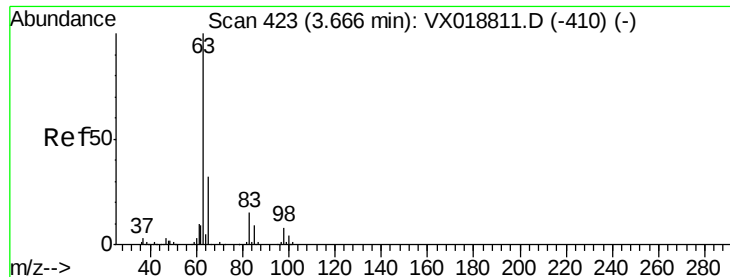
Tot Ion: 43 Resp: 1433665
Ion Ratio Lower Upper
43 100
74 0.1 21.9 32.9#



#16
Methylene chloride
Concen: 0.914 ug/L
RT: 2.84 min Scan# 287
Delta R.T. 0.01 min
Lab File: VX018819.D
Acq: 07 Oct 2020 18:31

Tgt Ion: 84 Resp: 7547
Ion Ratio Lower Upper
84 100
86 223.3 45.6 84.8#
49 91.7 85.8 159.3

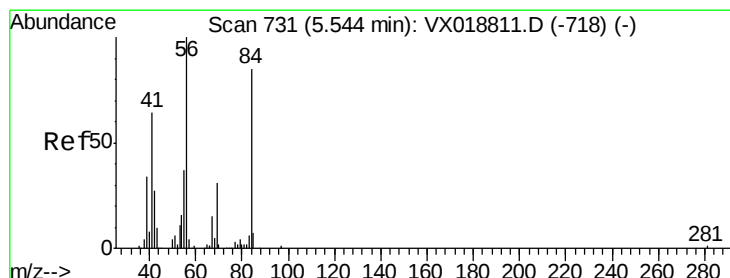
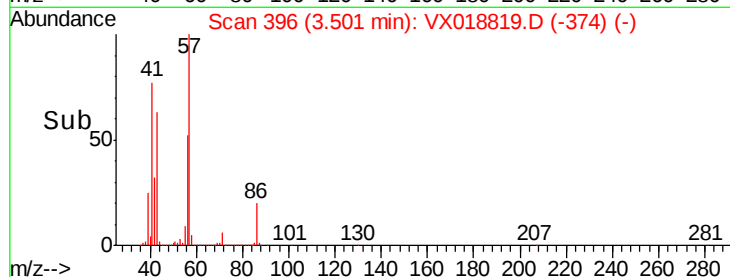
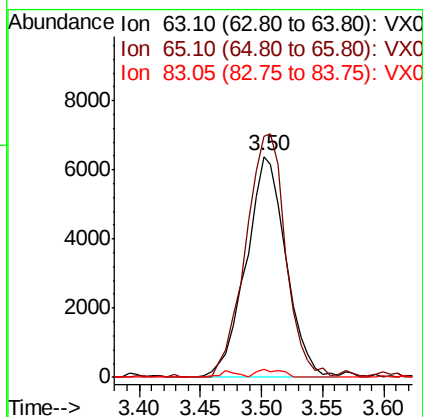
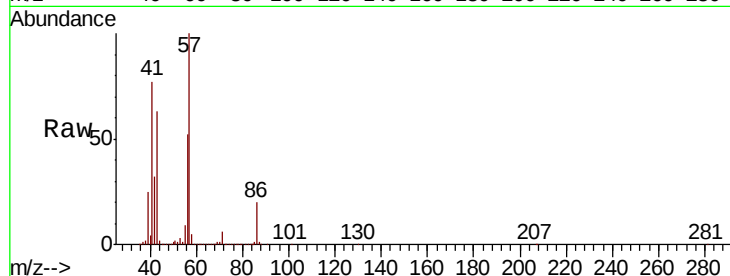




#19
 1,1-Dichloroethane
 Concen: 1.121 ug/L
 RT: 3.50 min Scan# 396
 Delta R.T. -0.16 min
 Lab File: VX018819.D
 Acq: 07 Oct 2020 18:31

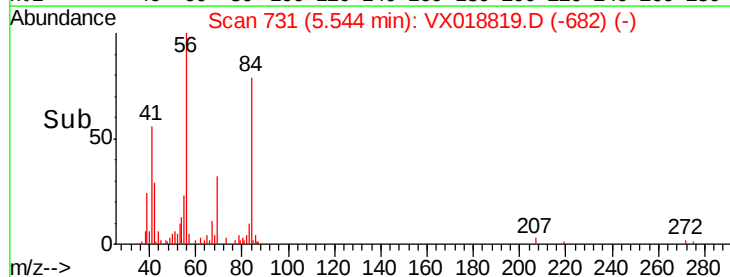
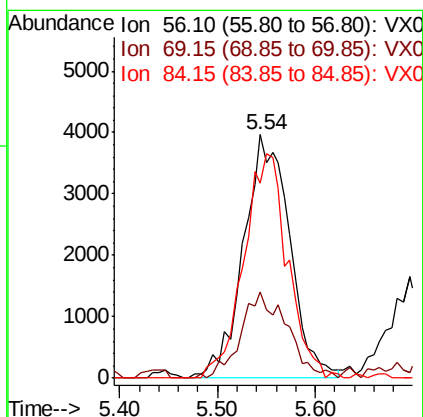
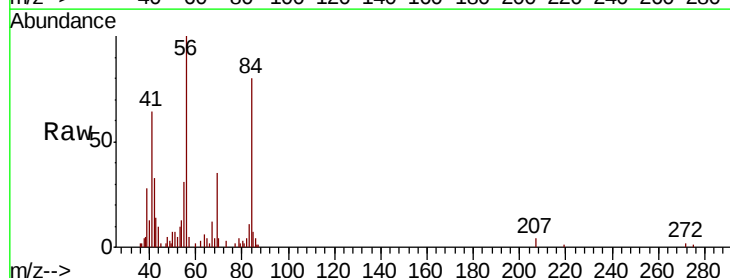
Instrument :
 MSVOA_X
 ClientSampleId :
 BG3S8DL

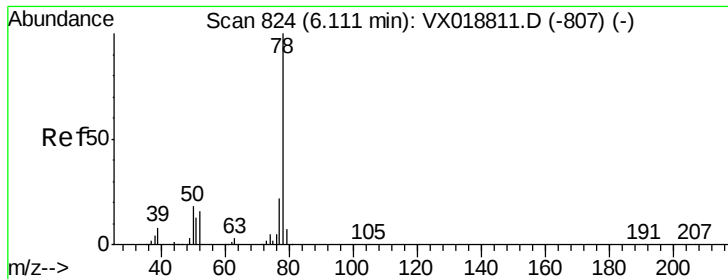
Tot Ion: 63 Resp: 14532
 Ion Ratio Lower Upper
 63 100
 65 109.3 21.6 40.2#
 83 3.4 8.7 16.1#



#30
 Cyclohexane
 Concen: 1.187 ug/L
 RT: 5.54 min Scan# 731
 Delta R.T. 0.00 min
 Lab File: VX018819.D
 Acq: 07 Oct 2020 18:31

Tgt Ion: 56 Resp: 13029
 Ion Ratio Lower Upper
 56 100
 69 35.4 26.0 39.0
 84 87.6 73.8 110.6





#33

Benzene

Concen: 0.072 ug/L

RT: 6.10 min Scan# 823

Delta R.T. -0.01 min

Lab File: VX018819.D

Acq: 07 Oct 2020 18:31

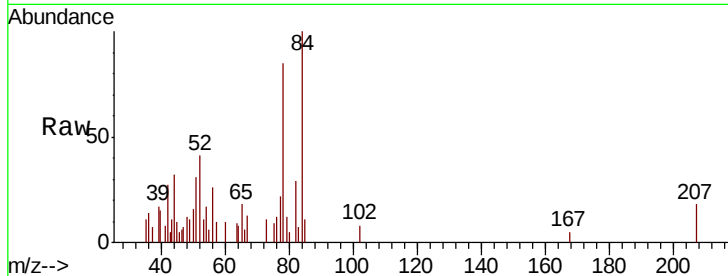
Instrument :

MSVOA_X

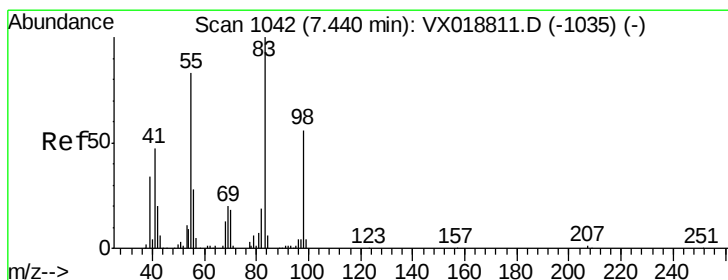
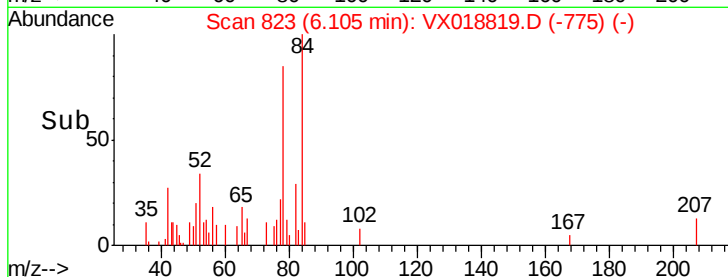
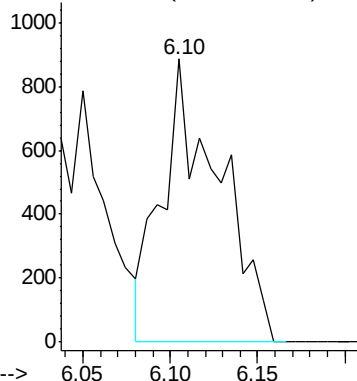
ClientSampleId :

BG3S8DL

Tgt Ion: 78 Resp: 2007



Abundance Ion 78.10 (77.80 to 78.80): VX0



#35

Methylcyclohexane

Concen: 0.310 ug/L

RT: 7.43 min Scan# 1041

Delta R.T. -0.01 min

Lab File: VX018819.D

Acq: 07 Oct 2020 18:31

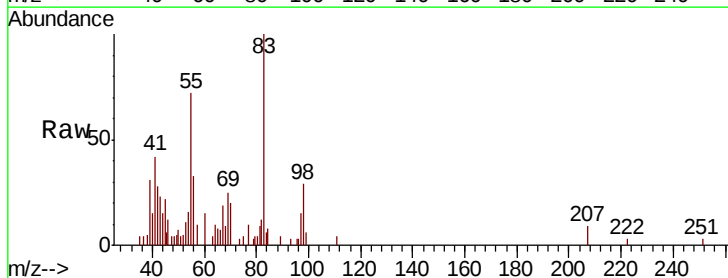
Tgt Ion: 83 Resp: 3638

Ion Ratio Lower Upper

83 100

55 93.6 60.3 90.5#

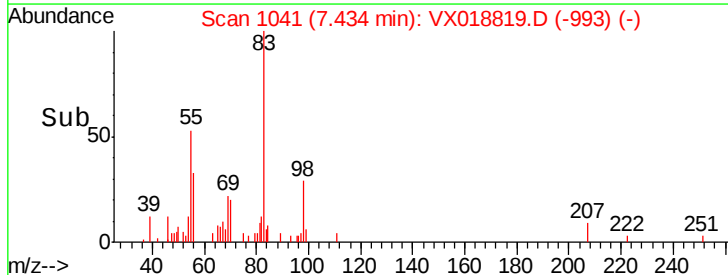
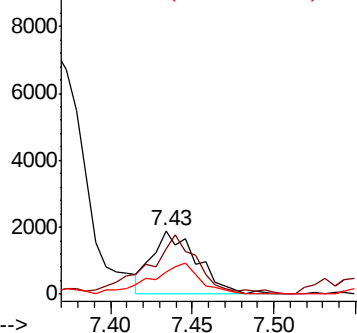
98 52.7 39.4 59.0

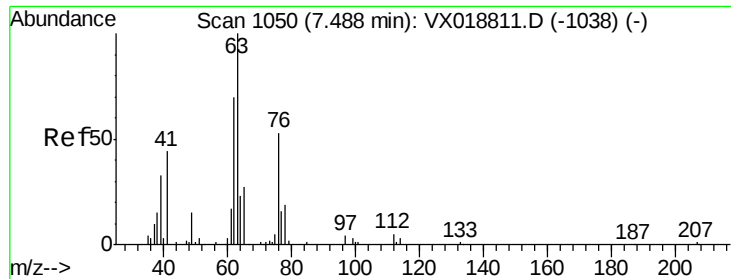


Abundance Ion 83.15 (82.85 to 83.85): VX0

Ion 55.10 (54.80 to 55.80): VX0

Ion 98.15 (97.85 to 98.85): VX0





#37

1,2-Dichloropropane

Concen: 1.020 ug/L

RT: 7.37 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VX018819.D

Acq: 07 Oct 2020 18:31

Instrument :

MSVOA_X

ClientSampleId :

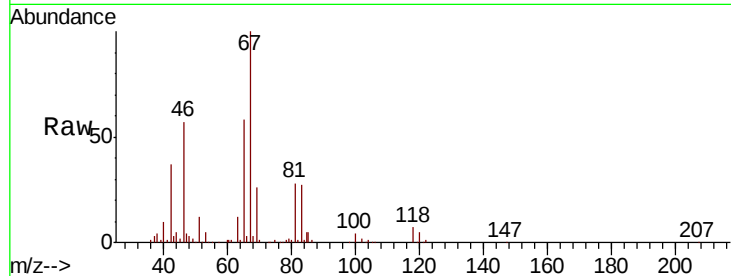
BG3S8DL

Tot Ion: 63 Resp: 7159

Ion Ratio Lower Upper

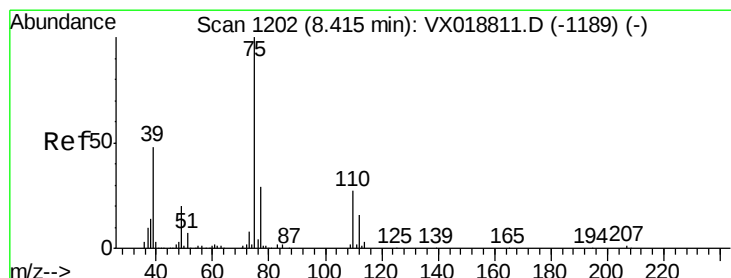
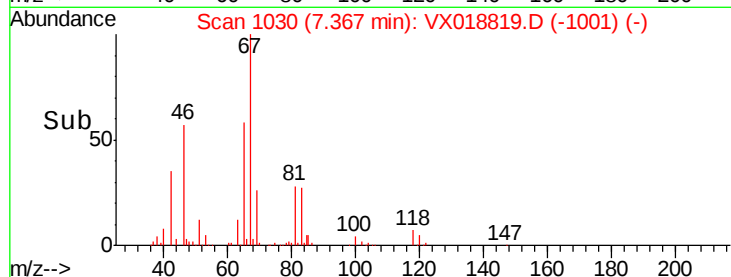
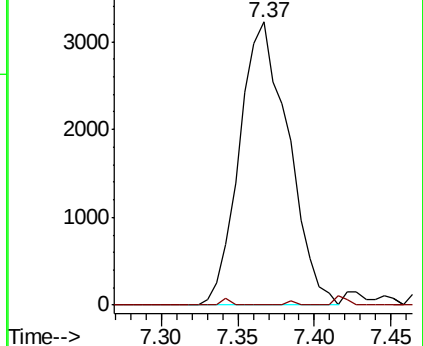
63 100

112 0.3 4.7 7.1#



Abundance Ion 63.10 (62.80 to 63.80): VX0

Ion 112.10 (111.80 to 112.80): V



#39

cis-1,3-Dichloropropene

Concen: 0.175 ug/L

RT: 8.38 min Scan# 1196

Delta R.T. -0.04 min

Lab File: VX018819.D

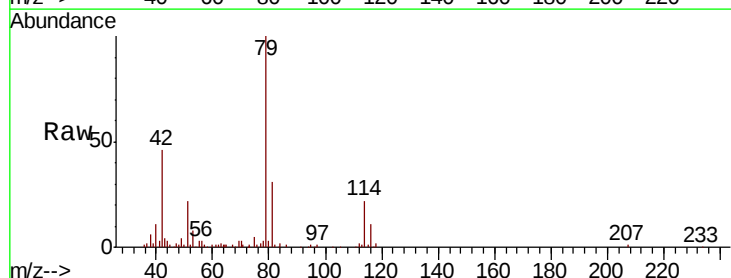
Acq: 07 Oct 2020 18:31

Tgt Ion: 75 Resp: 1964

Ion Ratio Lower Upper

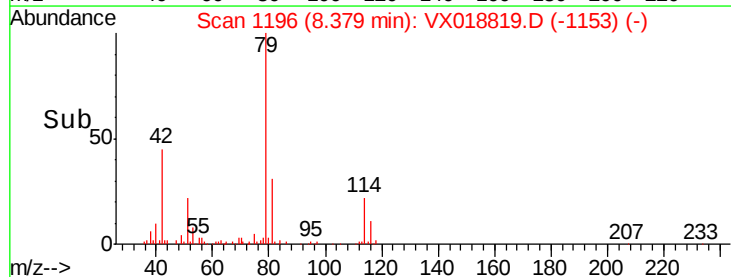
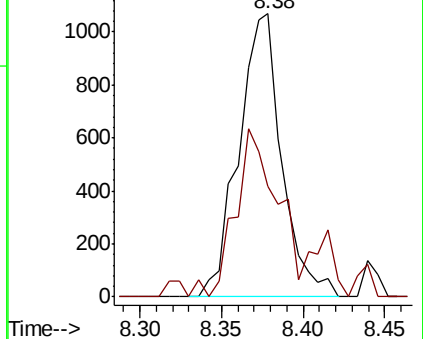
75 100

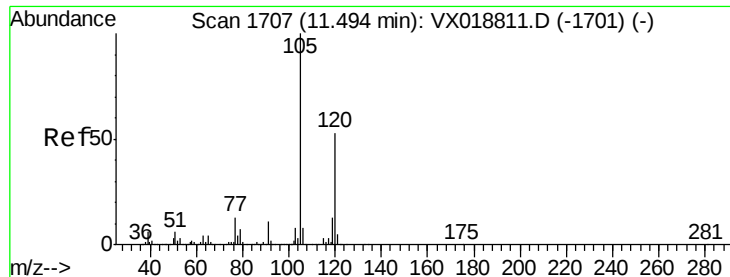
77 39.2 22.5 41.7



Abundance Ion 75.05 (74.75 to 75.75): VX0

Ion 77.05 (76.75 to 77.75): VX0

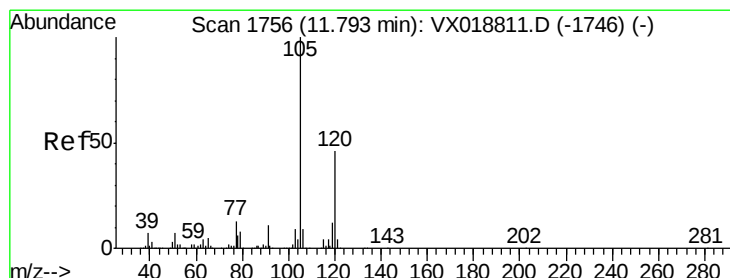
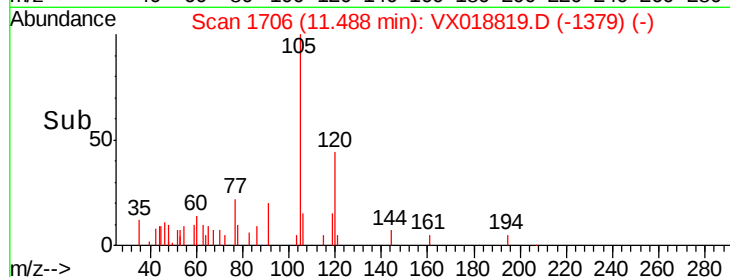
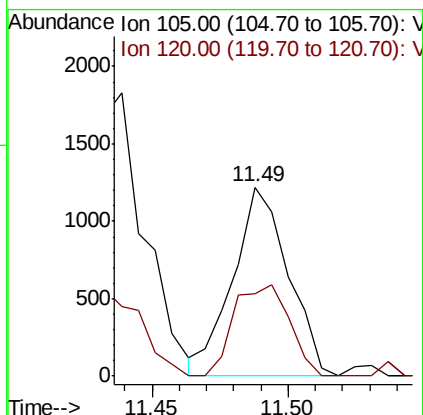
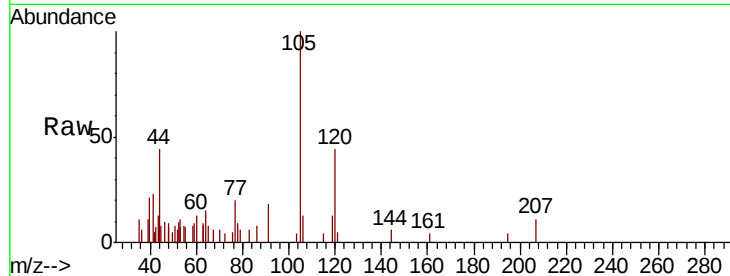




#43
 1,3,5-Trimethylbenzene
 Concen: 0.060 ug/L
 RT: 11.49 min Scan# 1706
 Delta R.T. -0.01 min
 Lab File: VX018819.D
 Acq: 07 Oct 2020 18:31

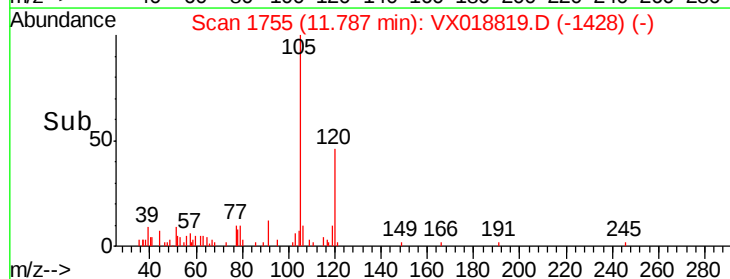
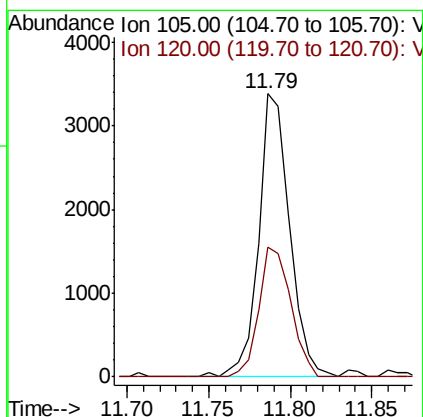
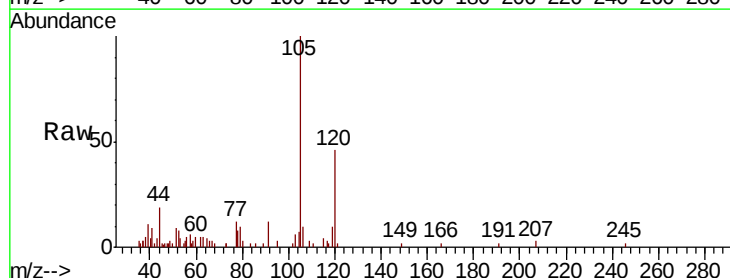
Instrument :
 MSVOA_X
 ClientSampleId :
 BG3S8DL

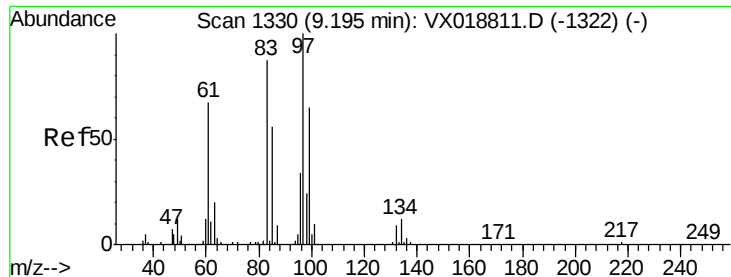
Tot Ion:105 Resp: 1728
 Ion Ratio Lower Upper
 105 100
 120 48.1 37.7 56.5



#44
 1,2,4-Trimethylbenzene
 Concen: 0.151 ug/L
 RT: 11.79 min Scan# 1755
 Delta R.T. -0.01 min
 Lab File: VX018819.D
 Acq: 07 Oct 2020 18:31

Tgt Ion:105 Resp: 4448
 Ion Ratio Lower Upper
 105 100
 120 47.3 35.1 52.7





#47

1,1,2-Trichloroethane

Concen: 1.173 ug/L

RT: 9.15 min Scan# 1322

Delta R.T. -0.05 min

Lab File: VX018819.D

Acq: 07 Oct 2020 18:31

Instrument :

MSVOA_X

ClientSampleId :

BG3S8DL

Tot Ion: 97 Resp: 6215

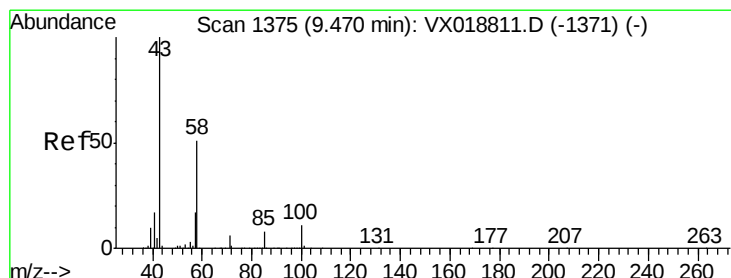
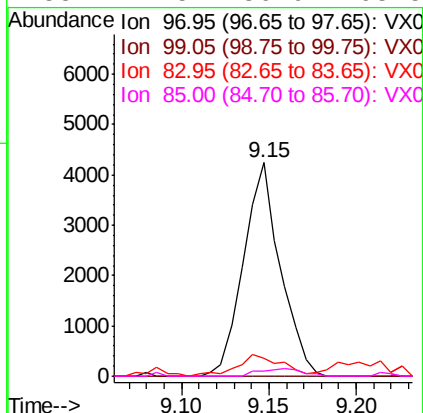
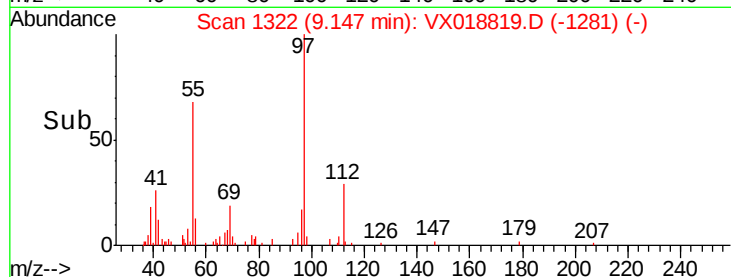
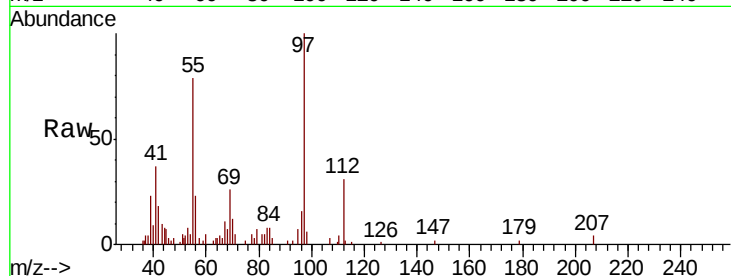
Ion Ratio Lower Upper

97 100

99 0.0 41.1 76.3#

83 8.3 57.5 106.7#

85 2.5 36.9 68.5#



#50

2-Hexanone

Concen: 5.556 ug/L

RT: 9.43 min Scan# 1368

Delta R.T. -0.04 min

Lab File: VX018819.D

Acq: 07 Oct 2020 18:31

Tgt Ion: 43 Resp: 16411

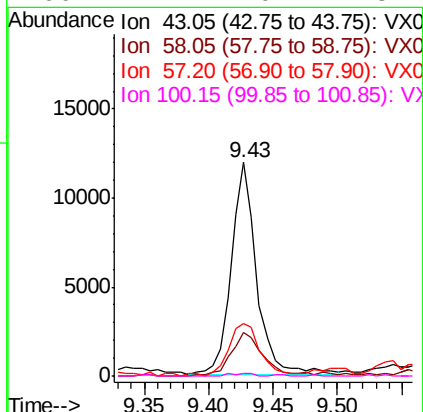
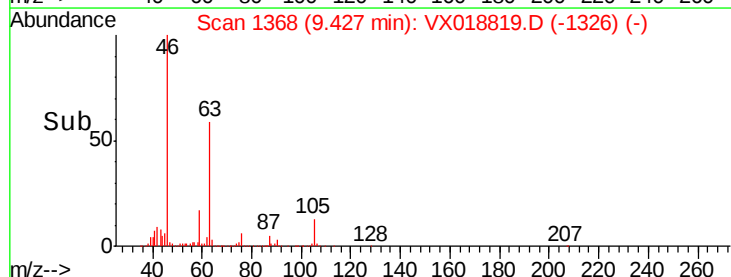
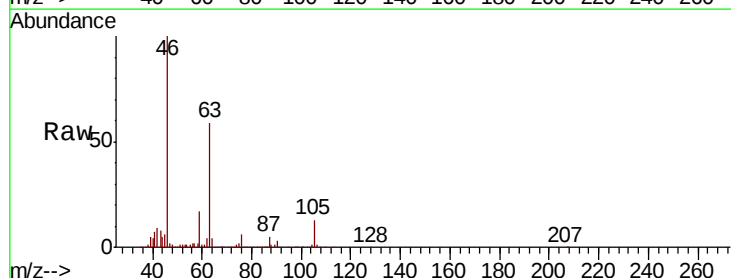
Ion Ratio Lower Upper

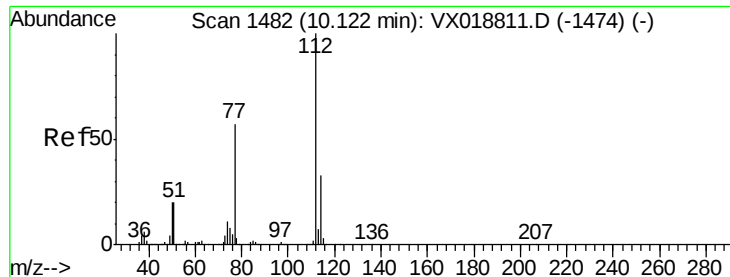
43 100

58 25.3 41.0 61.4#

57 30.9 15.9 23.9#

100 1.1 10.1 15.1#





#53

Chlorobenzene

Concen: 20.370 ug/L

RT: 10.12 min Scan# 1482

Delta R.T. 0.00 min

Lab File: VX018819.D

Acq: 07 Oct 2020 18:31

Instrument :

MSVOA_X

ClientSampleId :

BG3S8DL

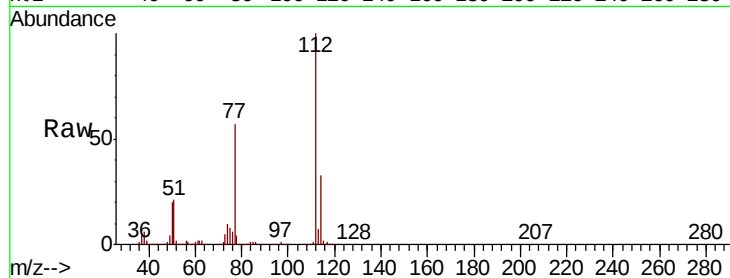
Tot Ion:112 Resp: 427243

Ion Ratio Lower Upper

112 100

114 33.3 21.3 39.5

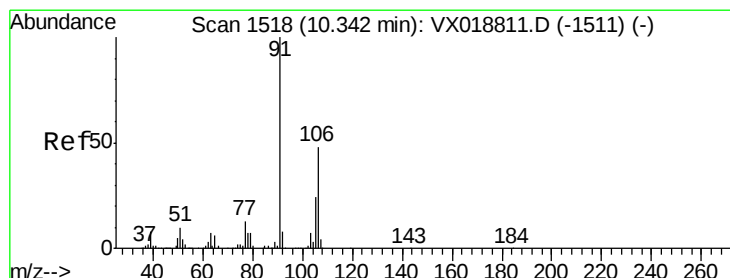
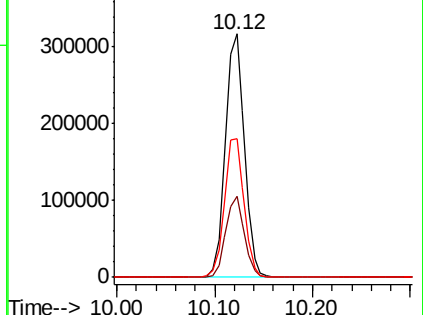
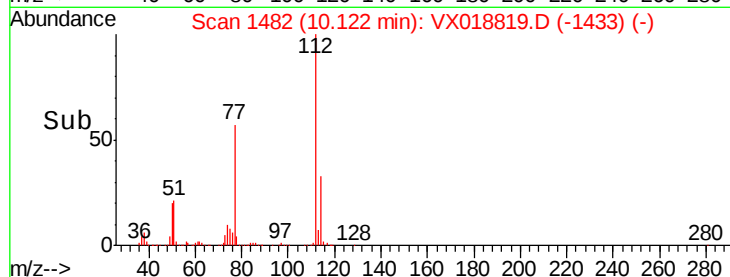
77 57.1 42.4 63.6



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): VX



#55

m,p-xylene

Concen: 0.104 ug/L

RT: 10.34 min Scan# 1518

Delta R.T. 0.00 min

Lab File: VX018819.D

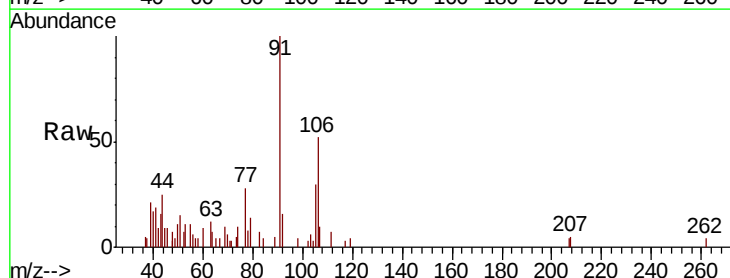
Acq: 07 Oct 2020 18:31

Tgt Ion:106 Resp: 1393

Ion Ratio Lower Upper

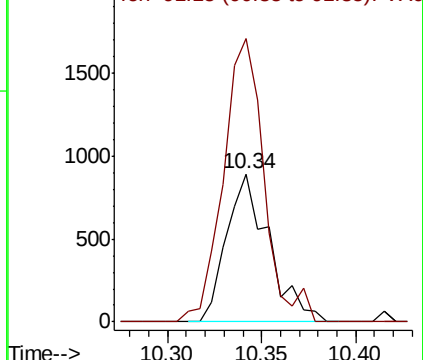
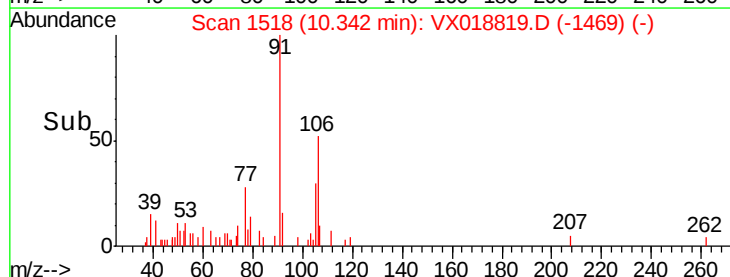
106 100

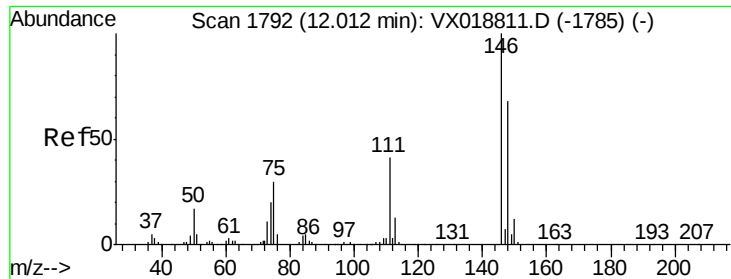
91 191.5 143.4 266.2



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VX

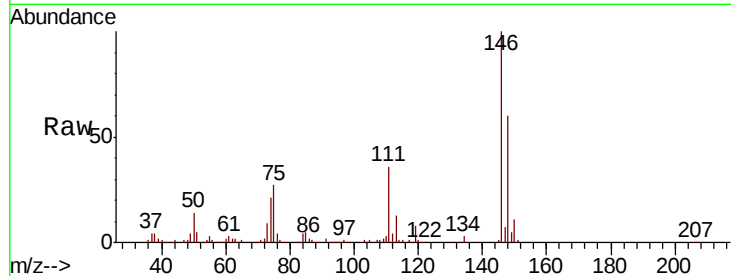




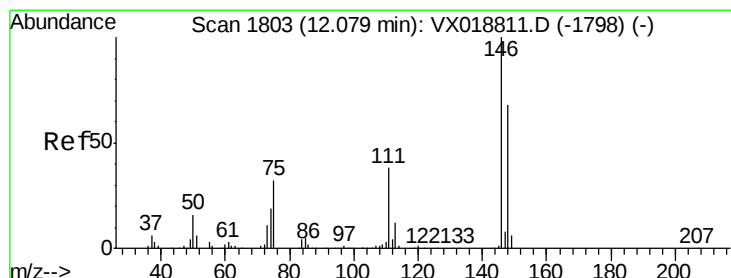
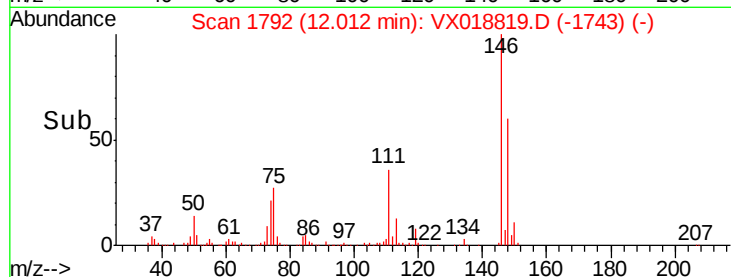
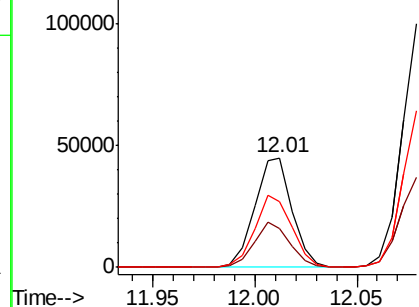
#63
 1,3-Dichlorobenzene
 Concen: 3.568 ug/L
 RT: 12.01 min Scan# 1792
 Delta R.T. 0.00 min
 Lab File: VX018819.D
 Acq: 07 Oct 2020 18:31

Instrument :
 MSVOA_X
 ClientSampled :
 BG3S8DL

Tot Ion	Ratio	Lower	Upper
146	100		
111	35.9	28.4	52.8
148	60.0	45.9	85.3

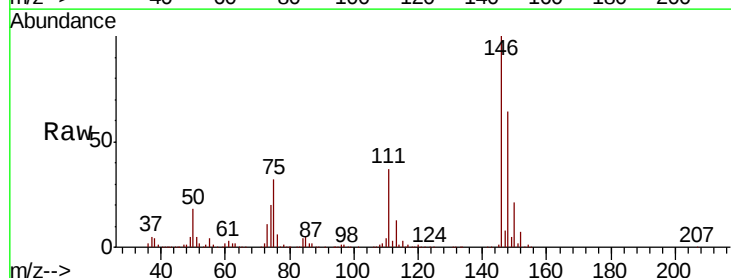


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

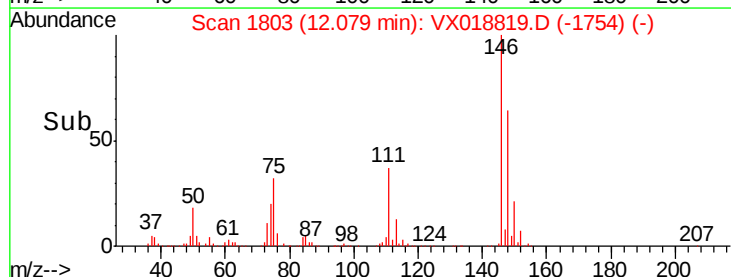
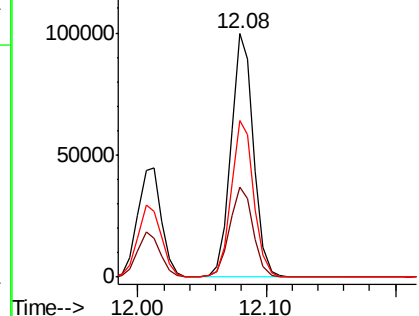


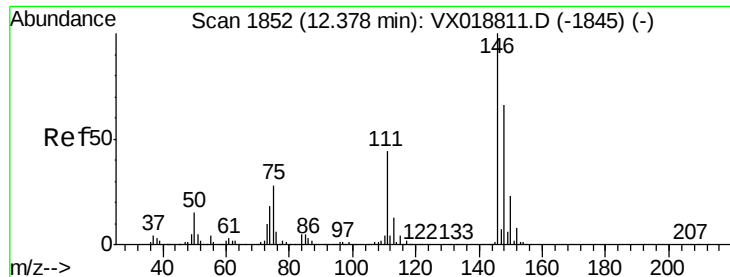
#64
 1,4-Dichlorobenzene
 Concen: 7.691 ug/L
 RT: 12.08 min Scan# 1803
 Delta R.T. 0.00 min
 Lab File: VX018819.D
 Acq: 07 Oct 2020 18:31

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.1	28.6	53.2
148	64.1	44.2	82.0



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

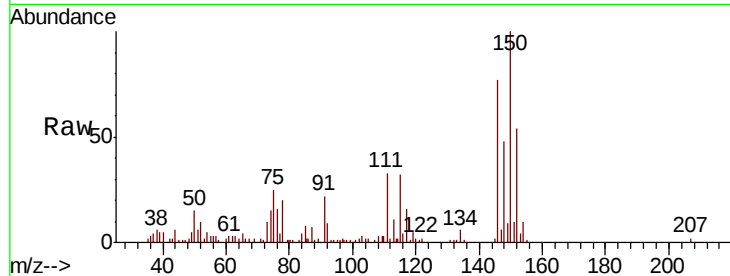




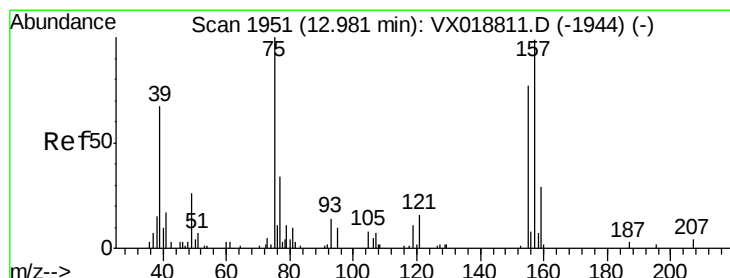
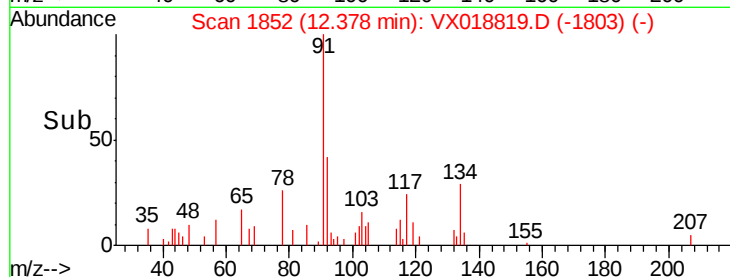
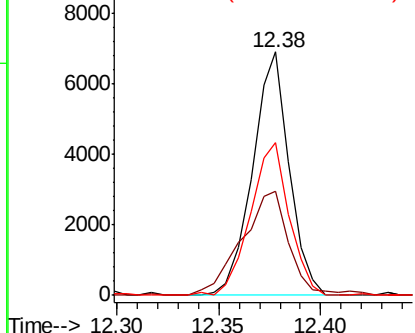
#66
 1,2-Dichlorobenzene
 Concen: 0.575 ug/L
 RT: 12.38 min Scan# 1852
 Delta R.T. 0.00 min
 Lab File: VX018819.D
 Acq: 07 Oct 2020 18:31

Instrument :
 MSVOA_X
 ClientSampleId :
 BG3S8DL

Tot Ion:146 Resp: 8578
 Ion Ratio Lower Upper
 146 100
 111 42.5 31.7 47.5
 148 62.8 49.0 73.6

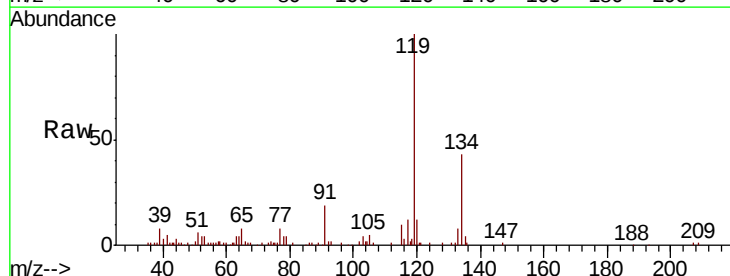


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

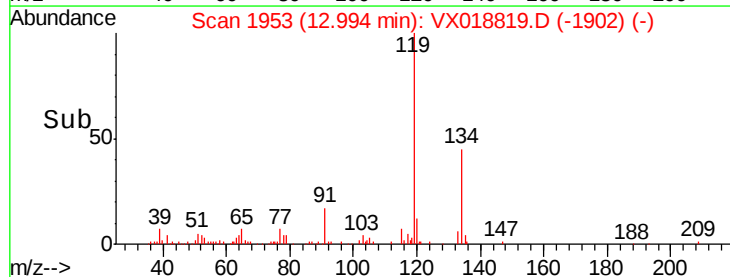
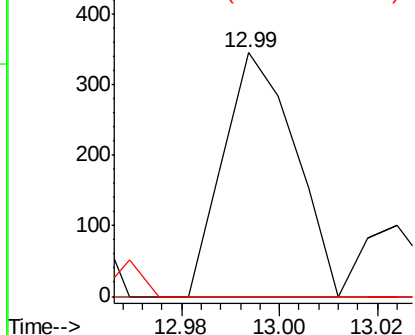


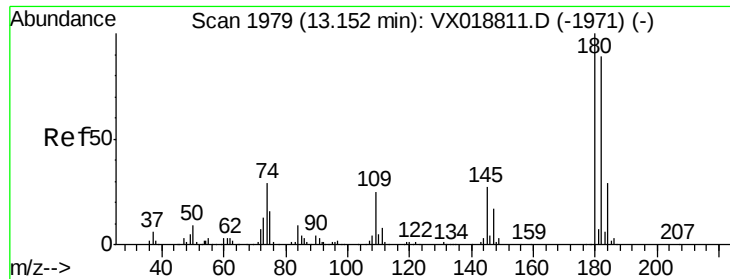
#67
 1,2-Dibromo-3-chloropropane
 Concen: 0.275 ug/L
 RT: 12.99 min Scan# 1953
 Delta R.T. 0.01 min
 Lab File: VX018819.D
 Acq: 07 Oct 2020 18:31

Tgt Ion: 75 Resp: 350
 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

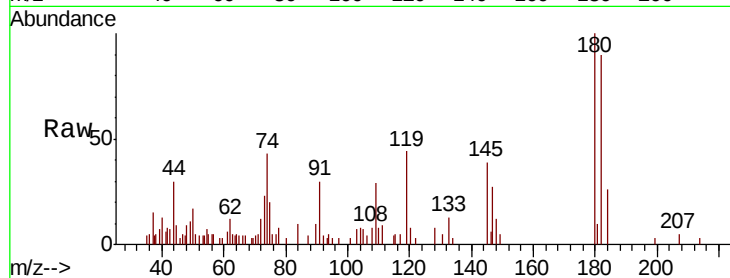




#68
 1,3,5-Trichlorobenzene
 Concen: 0.202 ug/L
 RT: 13.15 min Scan# 1979
 Delta R.T. 0.00 min
 Lab File: VX018819.D
 Acq: 07 Oct 2020 18:31

Instrument :
 MSVOA_X
 ClientSampleId :
 BG3S8DL

Tot Ion	Ratio	Lower	Upper
180	100		
182	99.7	74.1	111.1
184	31.6	23.4	35.2
145	36.6	23.6	35.4



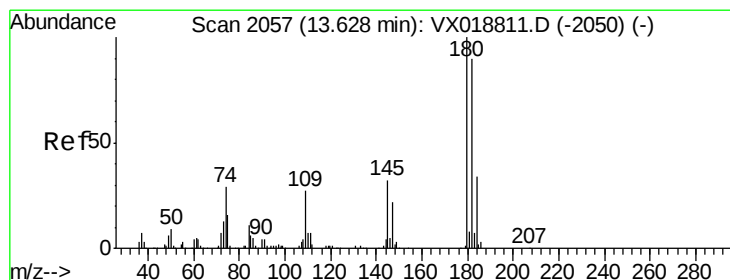
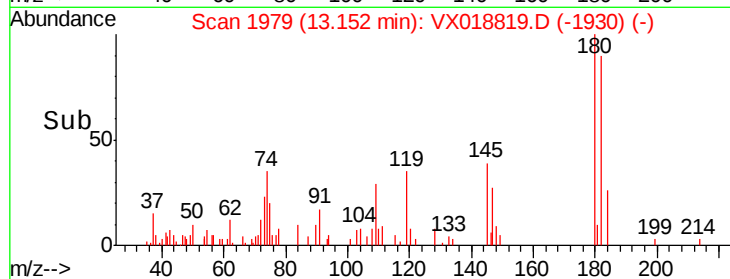
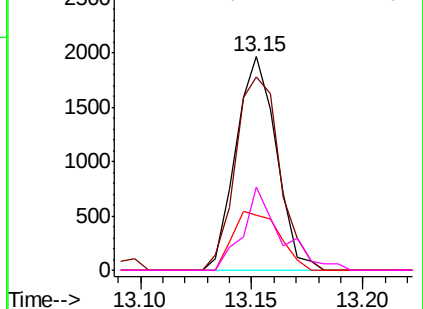
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

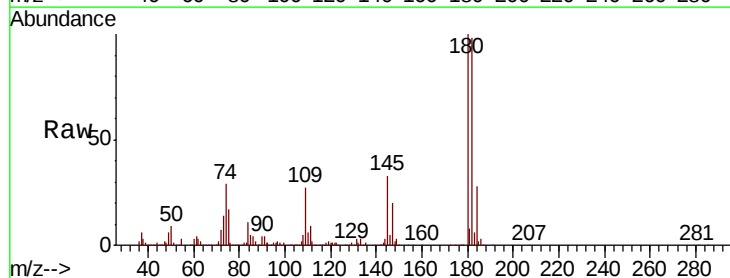
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#69
 1,2,4-trichlorobenzene
 Concen: 10.299 ug/L
 RT: 13.63 min Scan# 2057
 Delta R.T. 0.00 min
 Lab File: VX018819.D
 Acq: 07 Oct 2020 18:31

Tgt Ion	Ratio	Lower	Upper
180	100		
182	97.1	80.2	120.4
145	32.8	25.2	37.8

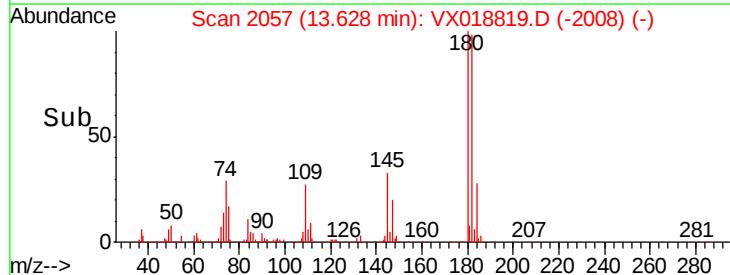
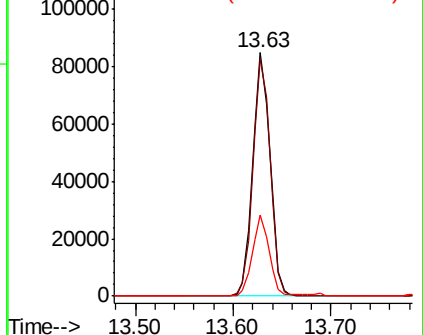


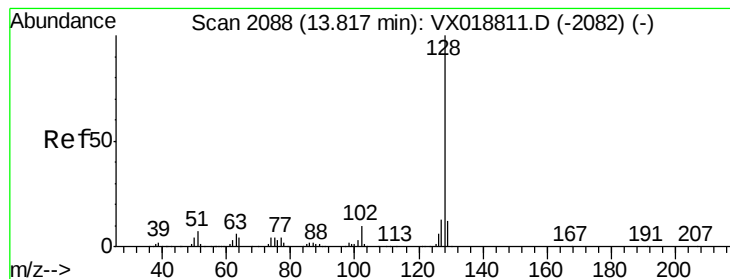
Abundance

Ion 179.90 (179.60 to 180.60): V

Ion 182.00 (181.70 to 182.70): V

Ion 144.95 (144.65 to 145.65): V





#70

Naphthalene

Concen: 0.079 ug/L

RT: 13.82 min Scan# 2088

Delta R.T. 0.00 min

Lab File: VX018819.D

Acq: 07 Oct 2020 18:31

Instrument :

MSVOA_X

ClientSampleId :

BG3S8DL

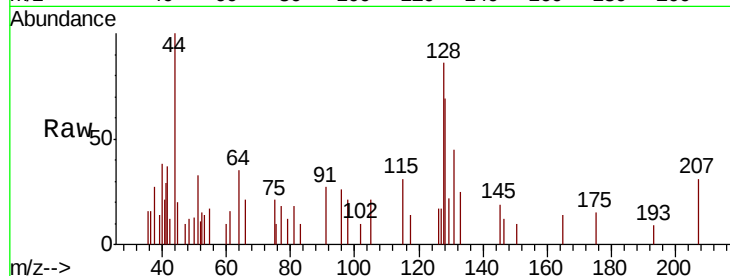
Tot Ion:128 Resp: 1311

Ion Ratio Lower Upper

128 100

129 0.0 9.0 13.4#

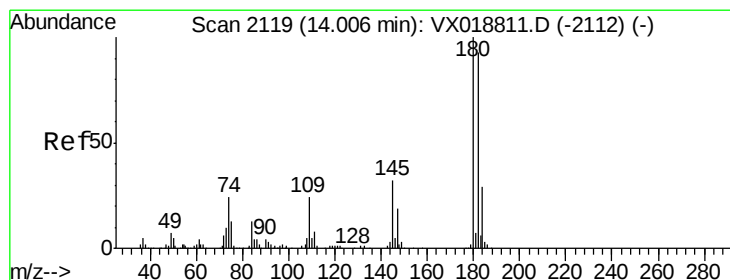
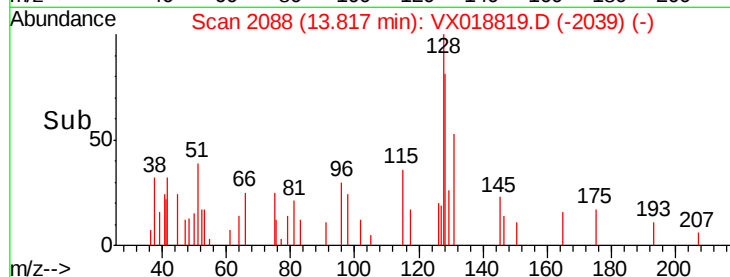
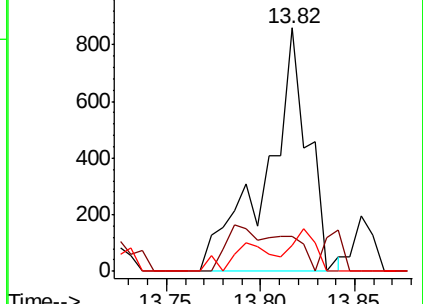
127 9.6 10.5 15.7#



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



#71

1,2,3-Trichlorobenzene

Concen: 1.843 ug/L

RT: 14.01 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VX018819.D

Acq: 07 Oct 2020 18:31

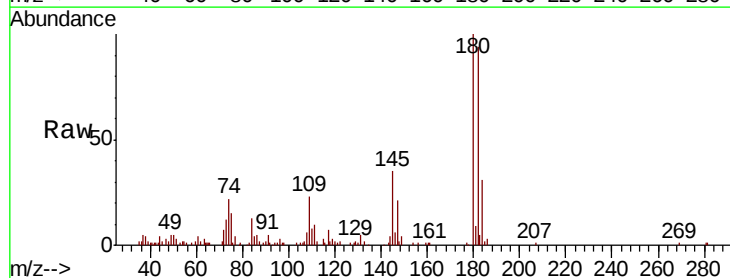
Tgt Ion:180 Resp: 16921

Ion Ratio Lower Upper

180 100

182 100.2 73.6 110.4

145 41.2 26.6 40.0#



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

