

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX092820\
 Data File : VX018626.D
 Acq On : 28 Sep 2020 19:43
 Operator : JC/SP
 Sample : L4135-06
 Misc : 25.0mL/MSVOA X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BG480

Quant Time: Sep 29 02:39:31 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\SOMXTR092820WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Sep 29 02:30:52 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.83	114	245398	5.00	ug/L	0.00
28) Chlorobenzene-d5	10.10	117	232048	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	12.06	152	122463	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	65746	5.12	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	102.40%
7) Chloroethane-d5	1.70	69	53283	4.92	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	98.40%
11) 1,1-Dichloroethene-d2	2.34	63	108247	3.82	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	76.40%
20) 2-Butanone-d5	4.55	46	184130	56.23	ug/L	-0.01
Spiked Amount	50.000	Range	40 - 130	Recovery	=	112.46%
24) Chloroform-d	5.14	84	146127	4.80	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.00%
26) 1,2-Dichloroethane-d4	6.03	65	81649	4.61	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	92.20%
32) Benzene-d6	6.05	84	268182	5.01	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	100.20%
36) 1,2-Dichloropropane-d6	7.37	67	85506	5.24	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	104.80%
41) Toluene-d8	8.70	98	254327	4.77	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.40%
45) trans-1,3-Dichloropropene-	8.99	79	34573	4.76	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	95.20%
48) 2-Hexanone-d5	9.43	63	144980	55.77	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	111.54%
59) 1,1,2,2-Tetrachloroethane-	11.23	84	65234	5.37	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	107.40%
65) 1,2-Dichlorobenzene-d4	12.36	152	103794	5.19	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	103.80%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chloromethane	1.31	50	2581	0.203	ug/L #	83
5) Vinyl chloride	1.39	62	1233	0.093	ug/L #	1
8) Chloroethane	1.72	64	46287	6.335	ug/L #	74
12) 1,1-Dichloroethene	2.34	96	1409	0.118	ug/L #	1
13) Acetone	2.46	43	4361	2.406	ug/L	80
14) Carbon disulfide	2.62	76	12486	0.343	ug/L	96
15) Methyl Acetate	2.76	43	970	0.193	ug/L #	67
16) Methylene chloride	2.84	84	3836	0.234	ug/L	91
17) Methyl tert-butyl Ether	3.17	73	9625	0.361	ug/L #	1
18) trans-1,2-Dichloroethene	3.14	96	3203	0.267	ug/L	83
19) 1,1-Dichloroethane	3.68	63	3148	0.147	ug/L #	87
27) 1,2-Dichloroethane	6.17	62	1139	0.077	ug/L #	83
30) Cyclohexane	5.54	56	27701	1.576	ug/L	93
33) Benzene	6.12	78	199763	4.465	ug/L	100
35) Methylcyclohexane	7.45	83	21785	1.210	ug/L	92
37) 1,2-Dichloropropane	7.37	63	10843	0.908	ug/L #	87
39) cis-1,3-Dichloropropene	8.37	75	3481	0.206	ug/L	96

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 ALS Vial : 18 Sample Multiplier: 1

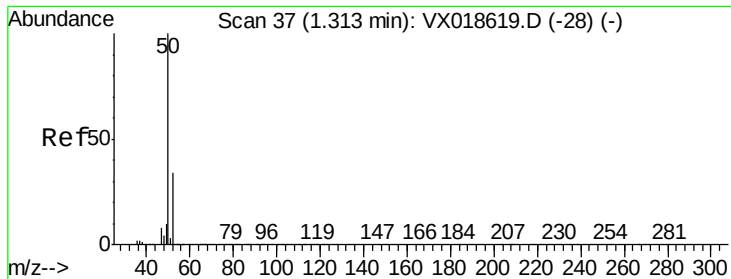
Instrument :
 MSVOA_X
 ClientSampleId :
 BG480

Quant Time: Sep 29 02:39:31 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\SOMXTR092820WMA.M
 Quant Title : TRACE VOA SOM01.0
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	8.76	91	19250	0.398	ug/L	100
43) 1,3,5-Trimethylbenzene	11.65	105	112910	2.672	ug/L #	79
44) 1,2,4-Trimethylbenzene	11.65	105	112910	2.671	ug/L #	79
53) Chlorobenzene	10.12	112	13053554	408.899	ug/L #	85
55) m,p-xylene	10.34	106	2996	0.149	ug/L	96
56) o-xylene	10.68	106	15742	0.828	ug/L	87
57) Styrene	10.70	104	2813	0.090	ug/L #	76
58) Isopropylbenzene	11.00	105	1028339	20.166	ug/L	100
60) 1,1,2,2-Tetrachloroethane	11.27	83	1695	0.175	ug/L #	65
63) 1,3-Dichlorobenzene	12.01	146	21956	0.825	ug/L	97
64) 1,4-Dichlorobenzene	12.08	146	152105	5.656	ug/L	99
66) 1,2-Dichlorobenzene	12.38	146	62333	2.513	ug/L	96
67) 1,2-Dibromo-3-chloropropan	13.00	75	612	0.290	ug/L #	9
70) Naphthalene	13.82	128	2859	0.103	ug/L #	70

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

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Misc      : 25.0mL/MSVOA X/WATER
ALS Vial  : 18      Sample Multiplier: 1
```



#3

Chloromethane

Concen: 0.203 ug/L

RT: 1.31 min Scan# 36

Delta R.T. -0.01 min

Lab File: VX018626.D

Acq: 28 Sep 2020 19:43

Instrument :

MSVOA_X

ClientSampleId :

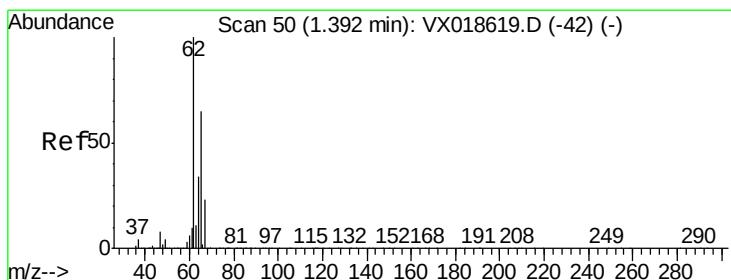
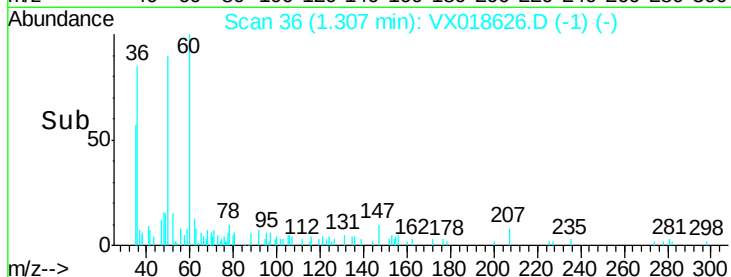
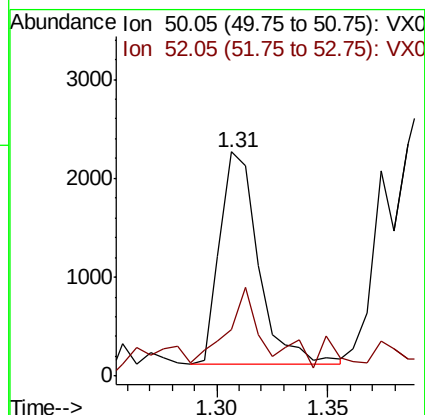
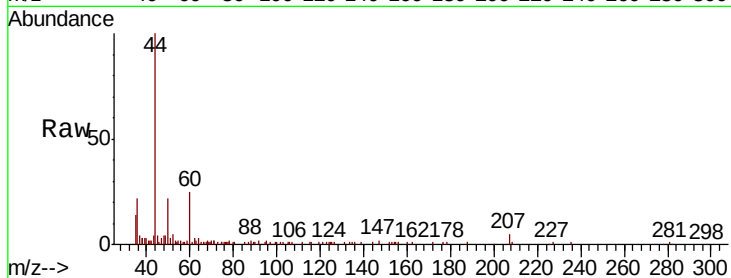
BG480

Tot Ion: 50 Resp: 2581

Ion Ratio Lower Upper

50 100

52 21.0 21.2 39.4#



#5

Vinyl chloride

Concen: 0.093 ug/L

RT: 1.39 min Scan# 49

Delta R.T. -0.01 min

Lab File: VX018626.D

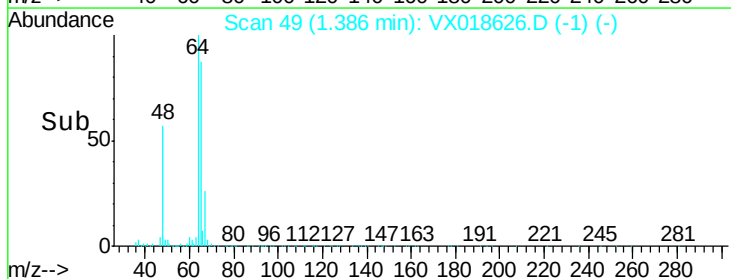
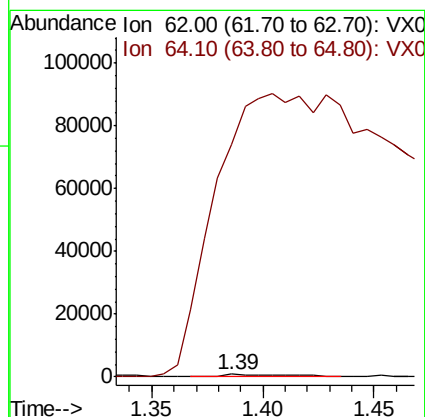
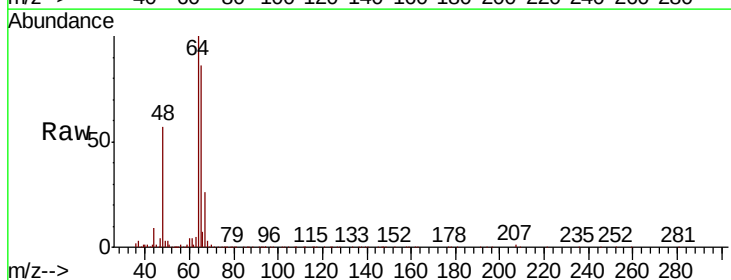
Acq: 28 Sep 2020 19:43

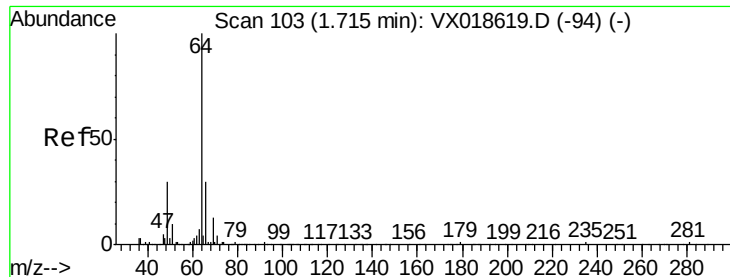
Tgt Ion: 62 Resp: 1233

Ion Ratio Lower Upper

62 100

64 9445.5 23.6 43.8#





#8

Chloroethane

Concen: 6.335 ug/L

RT: 1.72 min Scan# 103

Delta R.T. -0.00 min

Lab File: VX018626.D

Acq: 28 Sep 2020 19:43

Instrument :

MSVOA_X

ClientSampleId :

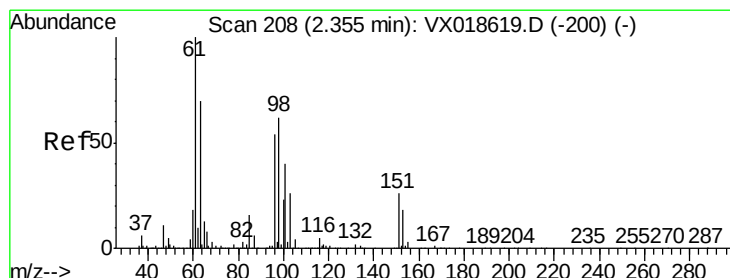
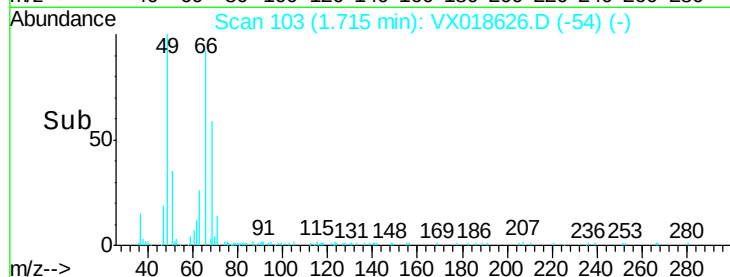
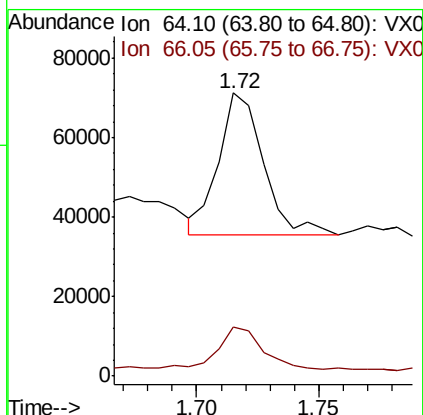
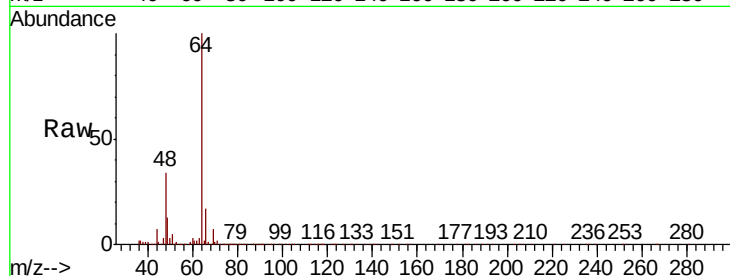
BG480

Tot Ion: 64 Resp: 46287

Ion Ratio Lower Upper

64 100

66 17.4 22.3 41.3#



#12

1,1-Dichloroethene

Concen: 0.118 ug/L

RT: 2.34 min Scan# 206

Delta R.T. -0.01 min

Lab File: VX018626.D

Acq: 28 Sep 2020 19:43

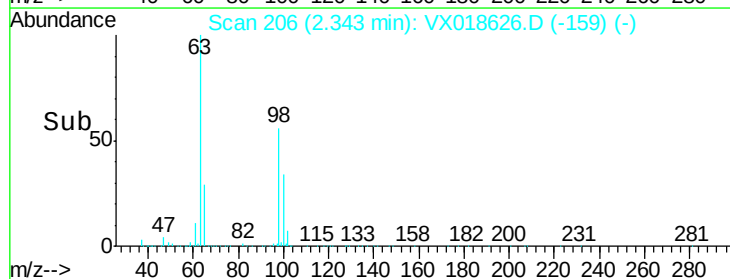
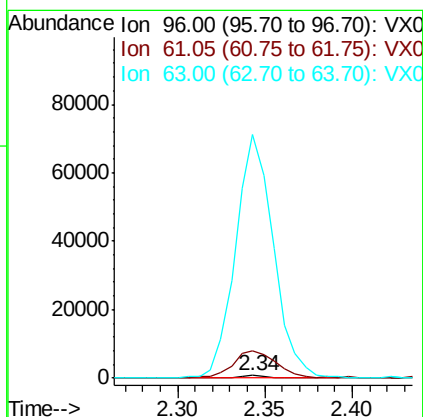
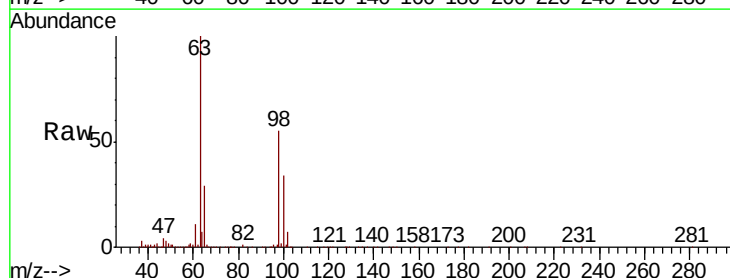
Tgt Ion: 96 Resp: 1409

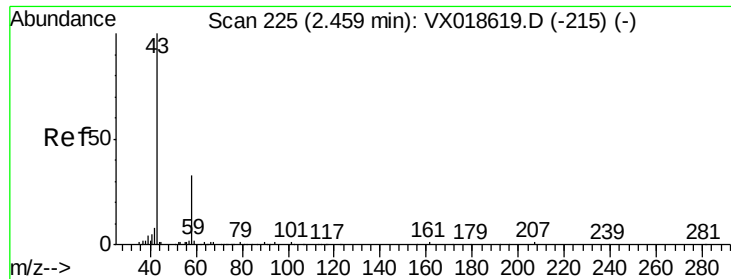
Ion Ratio Lower Upper

96 100

61 930.0 123.8 229.8#

63 8432.2 104.7 194.4#





#13

Acetone

Concen: 2.406 ug/L

RT: 2.46 min Scan# 225

Delta R.T. -0.00 min

Lab File: VX018626.D

Acq: 28 Sep 2020 19:43

Instrument :

MSVOA_X

ClientSampled :

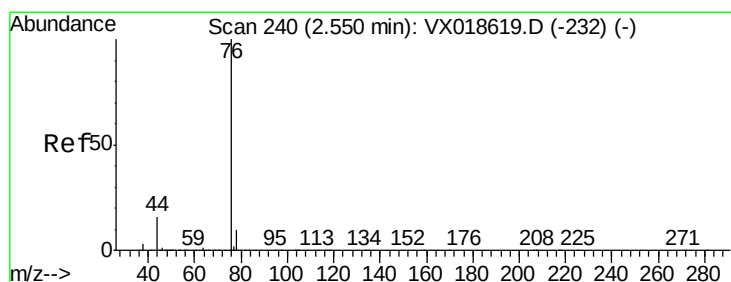
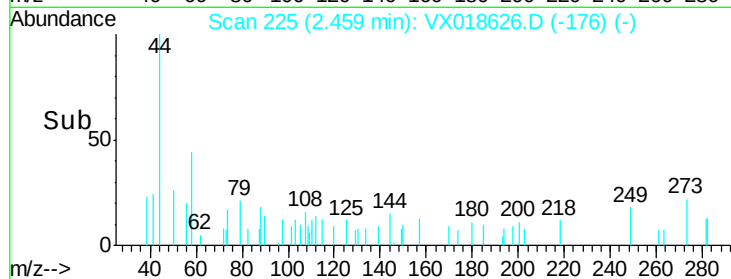
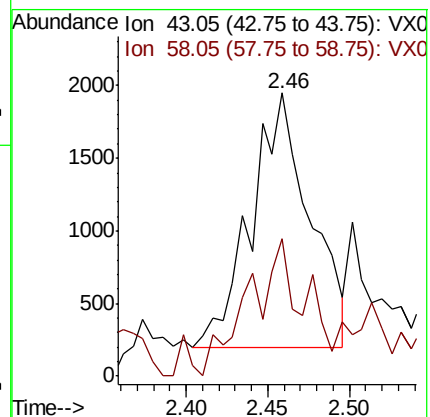
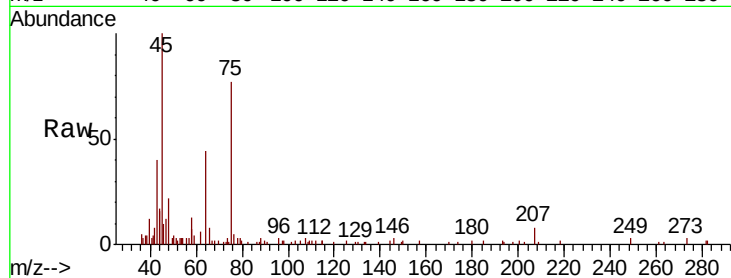
BG480

Tot Ion: 43 Resp: 4361

Ion Ratio Lower Upper

43 100

58 41.5 0.0 61.6



#14

Carbon disulfide

Concen: 0.343 ug/L

RT: 2.62 min Scan# 251

Delta R.T. 0.07 min

Lab File: VX018626.D

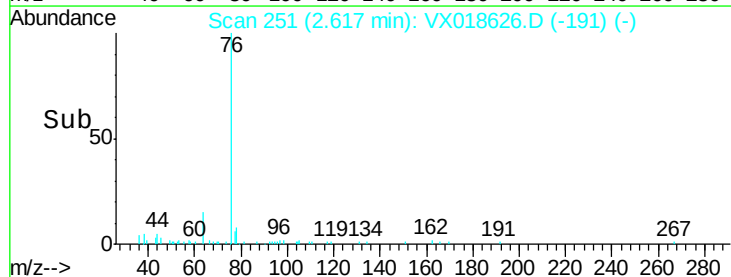
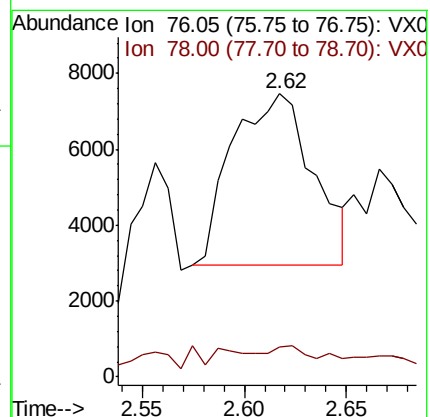
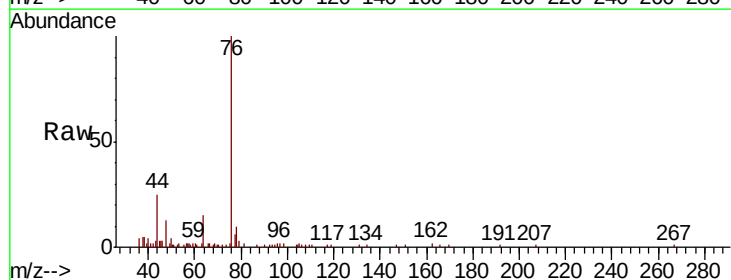
Acq: 28 Sep 2020 19:43

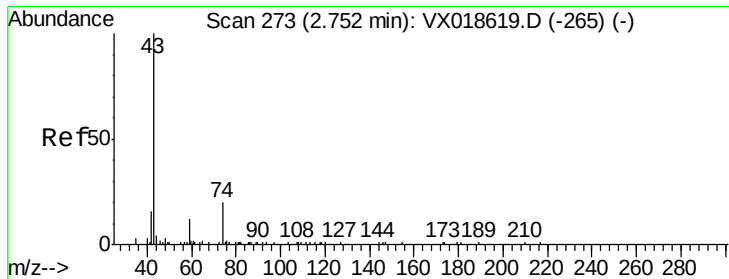
Tgt Ion: 76 Resp: 12486

Ion Ratio Lower Upper

76 100

78 10.5 7.4 11.0

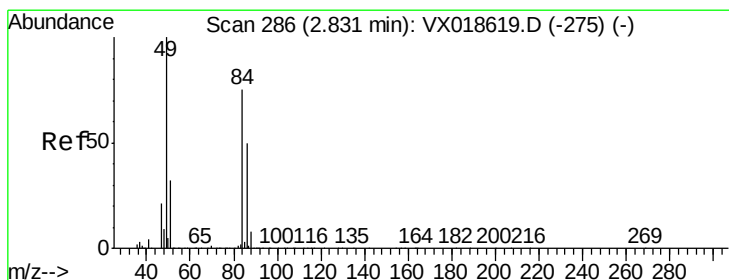
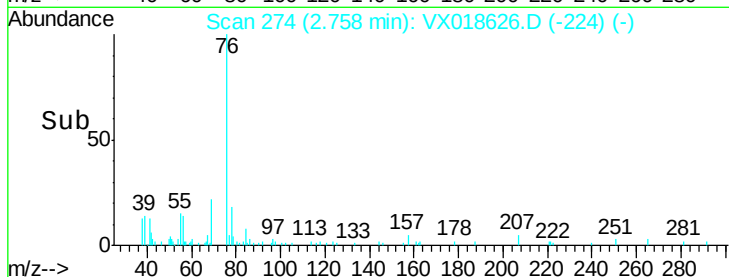
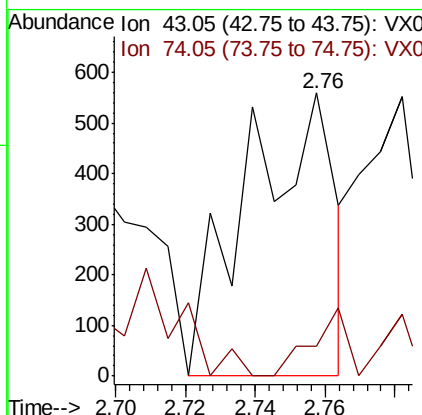
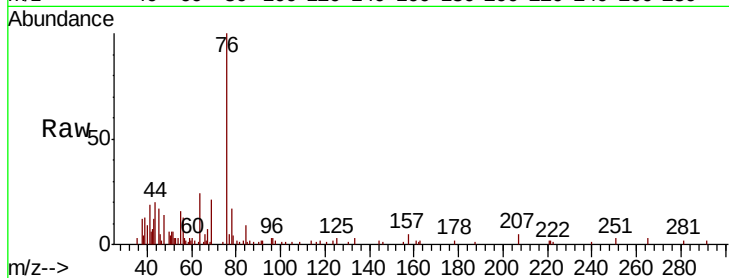




#15
Methyl Acetate
Concen: 0.193 ug/L
RT: 2.76 min Scan# 274
Delta R.T. 0.01 min
Lab File: VX018626.D
Acq: 28 Sep 2020 19:43

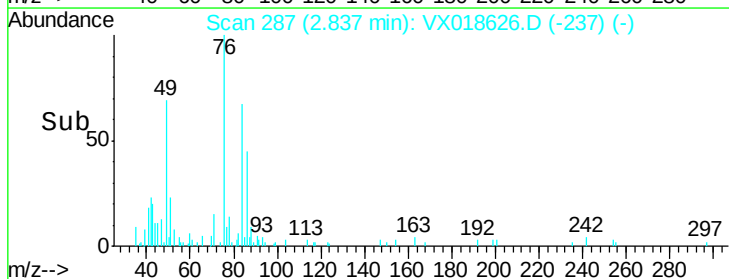
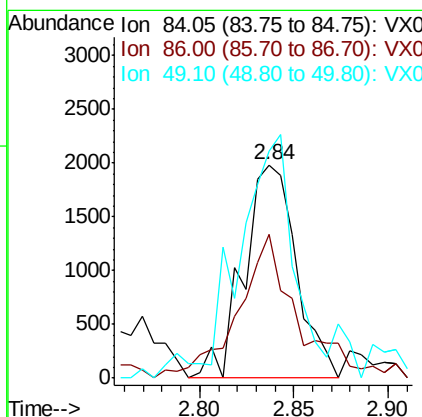
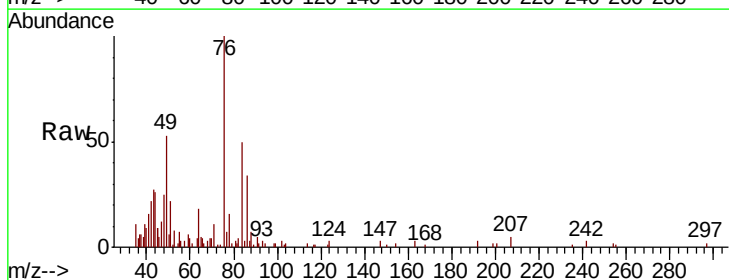
Instrument :
MSVOA_X
ClientSampled :
BG480

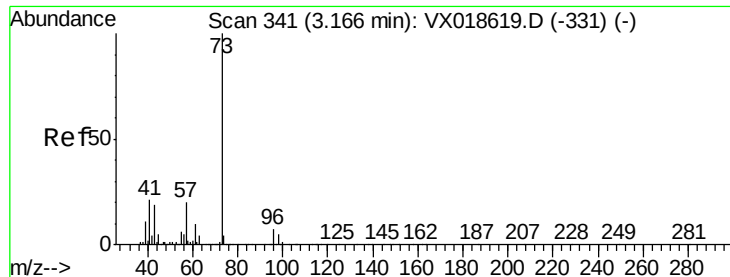
Tot Ion: 43 Resp: 970
Ion Ratio Lower Upper
43 100
74 9.5 21.2 31.8#



#16
Methylene chloride
Concen: 0.234 ug/L
RT: 2.84 min Scan# 287
Delta R.T. 0.01 min
Lab File: VX018626.D
Acq: 28 Sep 2020 19:43

Tgt Ion: 84 Resp: 3836
Ion Ratio Lower Upper
84 100
86 67.3 41.9 77.7
49 106.6 80.8 150.2

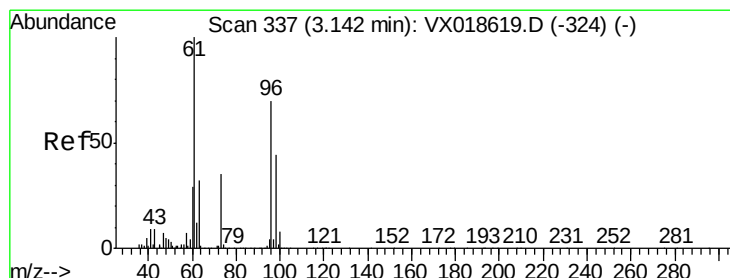
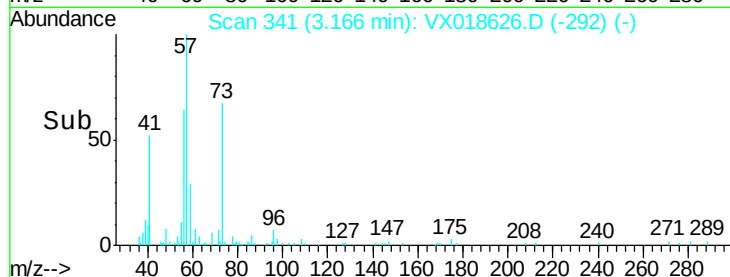
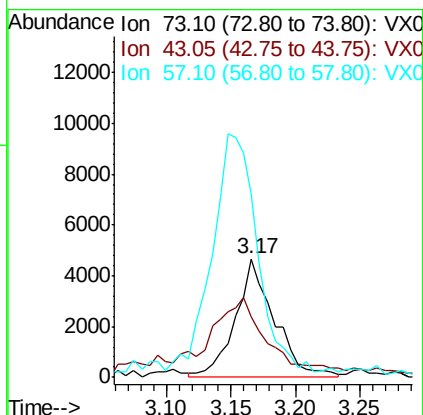
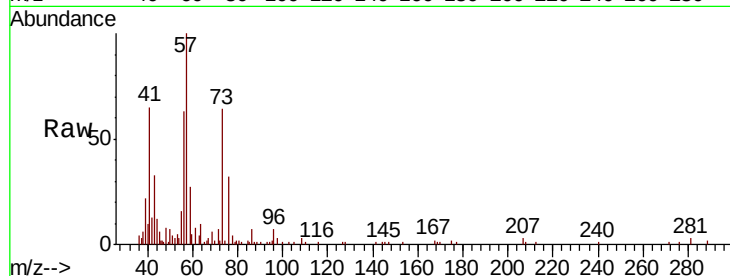




#17
Methyl tert-butyl Ether
Concen: 0.361 ug/L
RT: 3.17 min Scan# 341
Delta R.T. -0.00 min
Lab File: VX018626.D
Acq: 28 Sep 2020 19:43

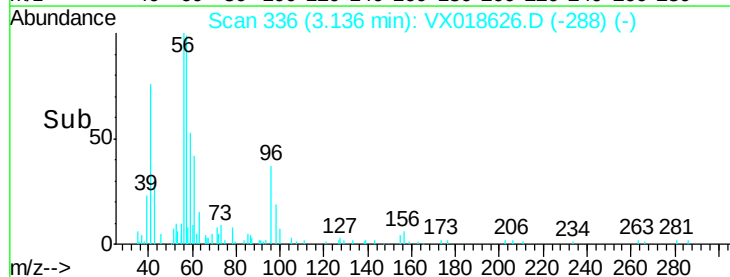
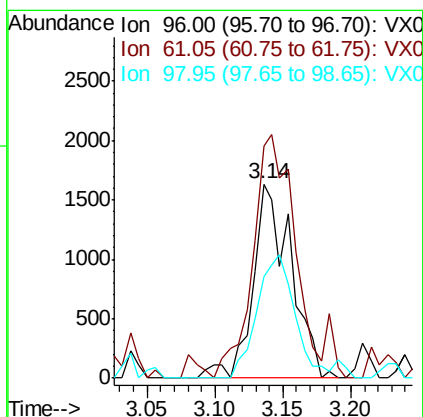
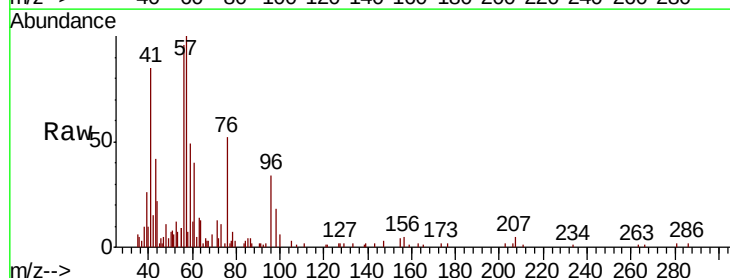
Instrument :
MSVOA_X
ClientSampled :
BG480

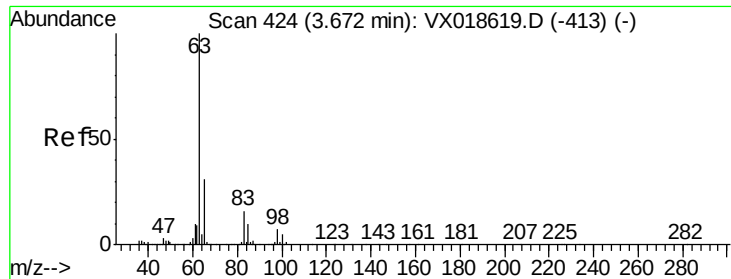
Tot Ion: 73 Resp: 9625
Ion Ratio Lower Upper
73 100
43 87.6 18.6 27.8#
57 245.0 17.3 25.9#



#18
trans-1,2-Dichloroethene
Concen: 0.267 ug/L
RT: 3.14 min Scan# 336
Delta R.T. -0.01 min
Lab File: VX018626.D
Acq: 28 Sep 2020 19:43

Tgt Ion: 96 Resp: 3203
Ion Ratio Lower Upper
96 100
61 119.9 97.3 180.7
98 52.1 46.6 86.6





#19

1,1-Dichloroethane

Concen: 0.147 ug/L

RT: 3.68 min Scan# 425

Delta R.T. 0.01 min

Lab File: VX018626.D

Acq: 28 Sep 2020 19:43

Instrument :

MSVOA_X

ClientSampled :

BG480

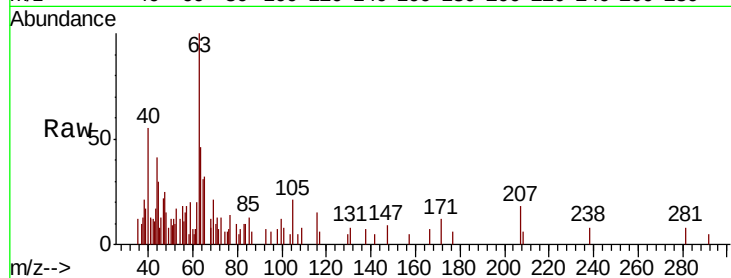
Tot Ion: 63 Resp: 3148

Ion Ratio Lower Upper

63 100

65 22.2 22.7 42.1#

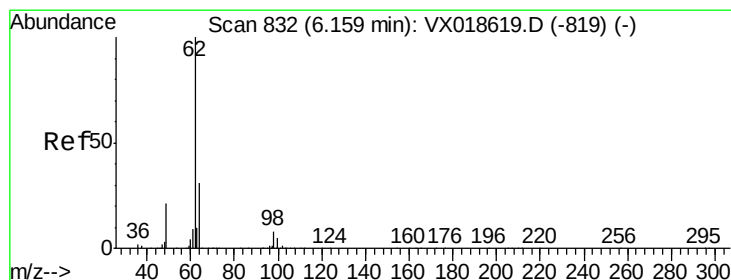
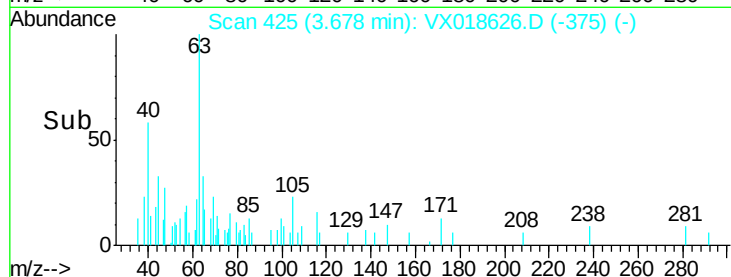
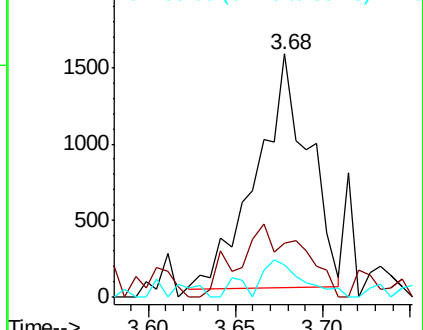
83 13.2 9.3 17.3



Abundance Ion 63.10 (62.80 to 63.80): VX0

Ion 65.10 (64.80 to 65.80): VX0

Ion 83.05 (82.75 to 83.75): VX0



#27

1,2-Dichloroethane

Concen: 0.077 ug/L

RT: 6.17 min Scan# 833

Delta R.T. 0.01 min

Lab File: VX018626.D

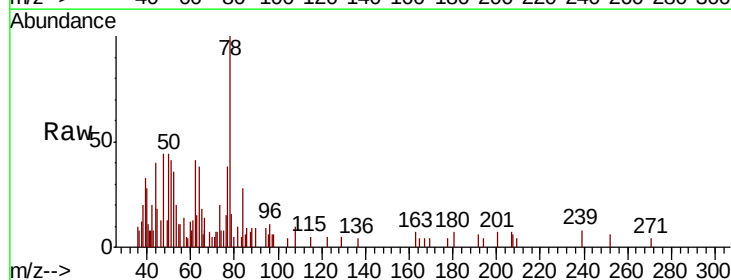
Acq: 28 Sep 2020 19:43

Tgt Ion: 62 Resp: 1139

Ion Ratio Lower Upper

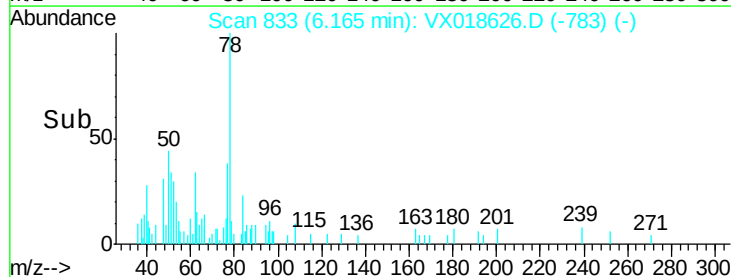
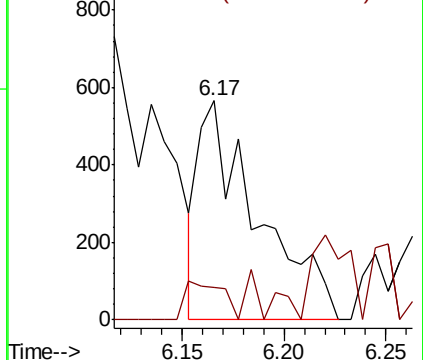
62 100

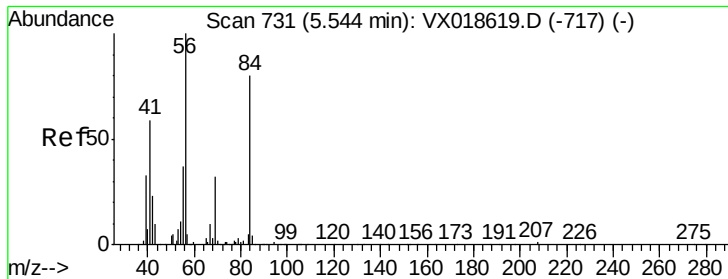
98 14.9 7.0 10.4#



Abundance Ion 62.00 (61.70 to 62.70): VX0

Ion 98.05 (97.75 to 98.75): VX0

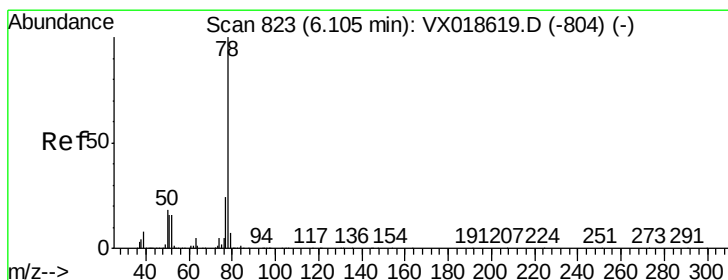
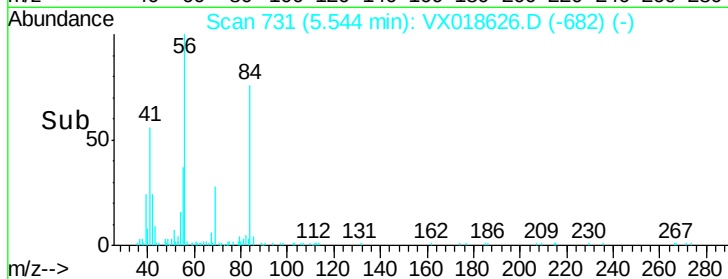
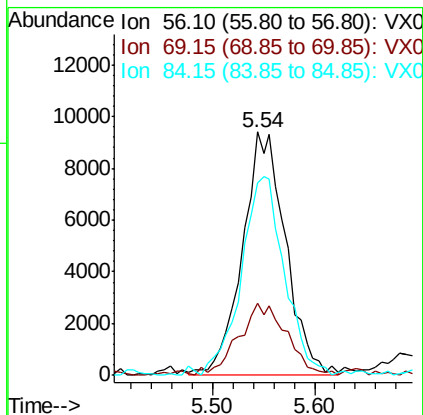
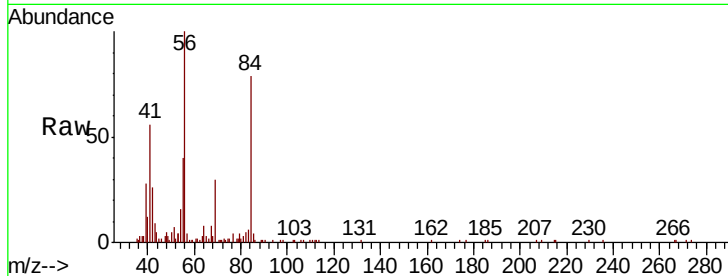




#30
Cyclohexane
Concen: 1.576 ug/L
RT: 5.54 min Scan# 731
Delta R.T. -0.00 min
Lab File: VX018626.D
Acq: 28 Sep 2020 19:43

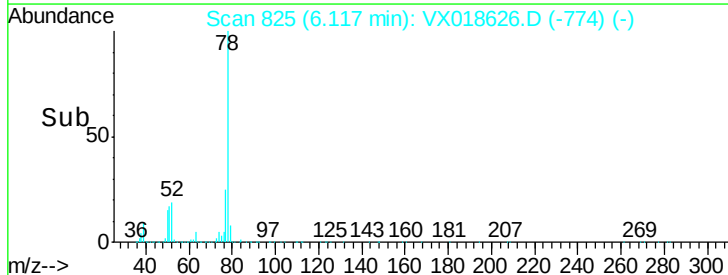
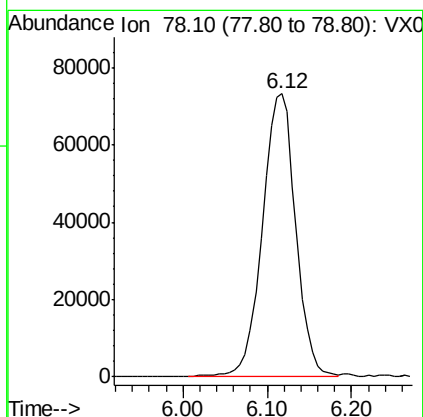
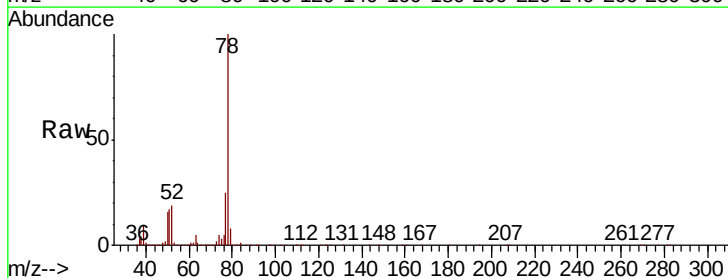
Instrument :
MSVOA_X
ClientSampleId :
BG480

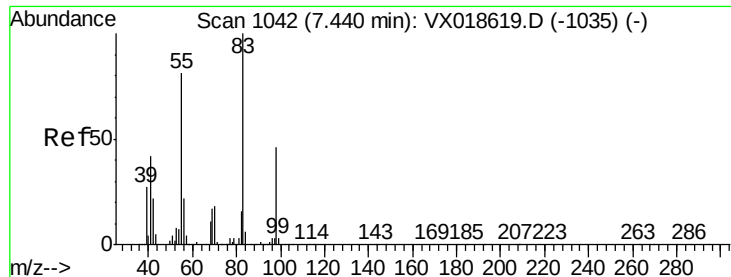
Tot Ion: 56 Resp: 27701
Ion Ratio Lower Upper
56 100
69 32.7 26.4 39.6
84 81.6 72.7 109.1



#33
Benzene
Concen: 4.465 ug/L
RT: 6.12 min Scan# 825
Delta R.T. 0.01 min
Lab File: VX018626.D
Acq: 28 Sep 2020 19:43

Tgt Ion: 78 Resp: 199763

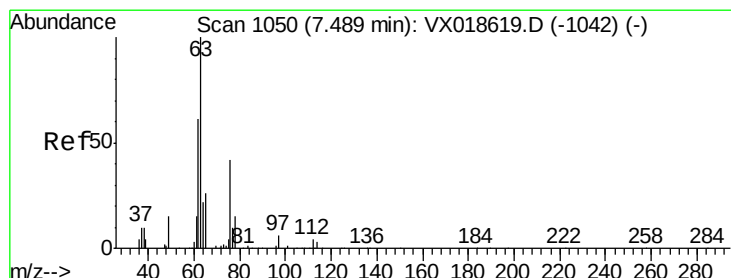
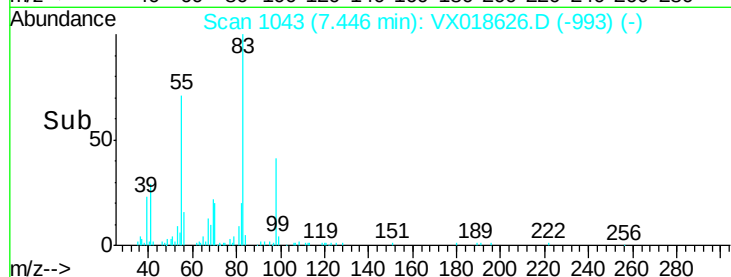
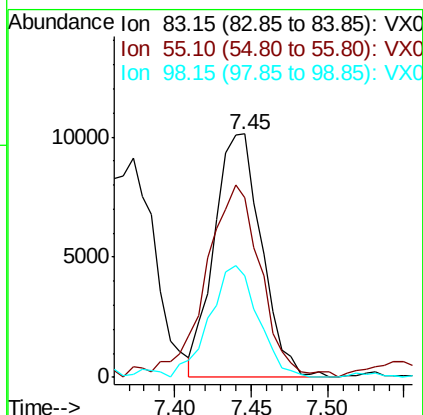
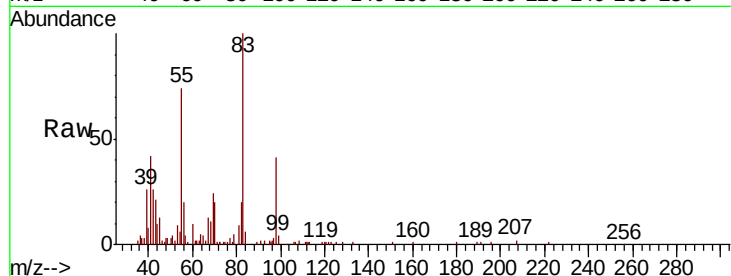




#35
Methylvlcyclohexane
Concen: 1.210 ug/L
RT: 7.45 min Scan# 1043
Delta R.T. 0.01 min
Lab File: VX018626.D
Acq: 28 Sep 2020 19:43

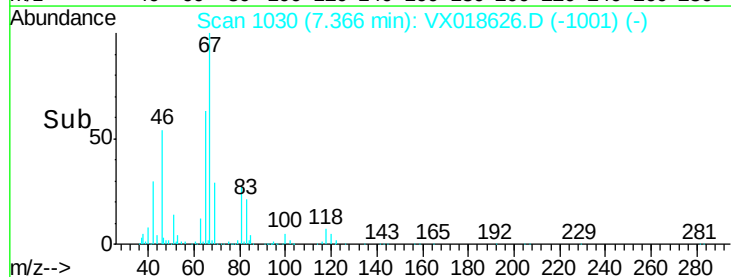
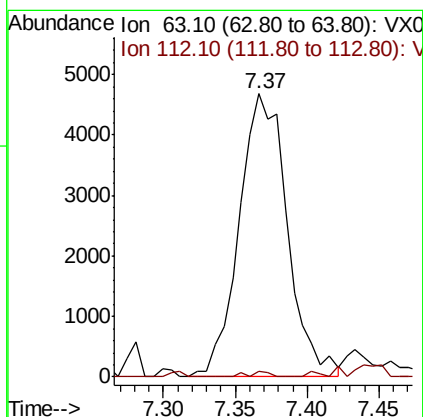
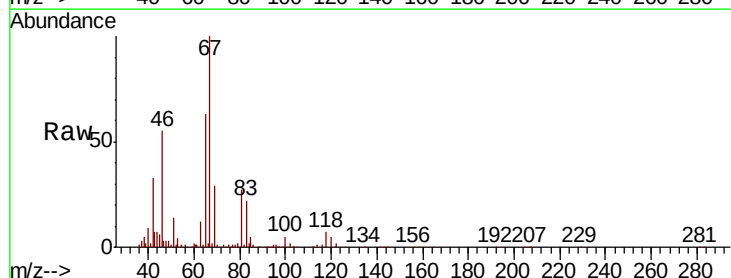
Instrument :
MSVOA_X
ClientSampleId :
BG480

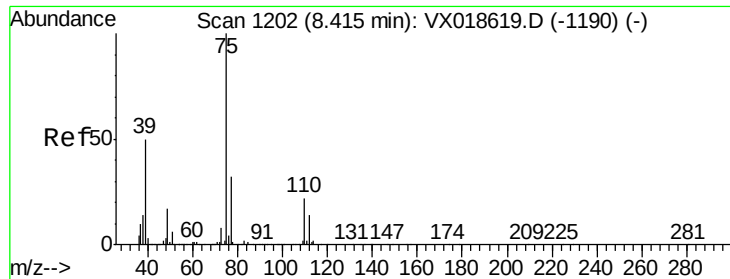
Tot Ion: 83 Resp: 21785
Ion Ratio Lower Upper
83 100
55 92.7 67.4 101.0
98 47.0 41.1 61.7



#37
1,2-Dichloropropane
Concen: 0.908 ug/L
RT: 7.37 min Scan# 1030
Delta R.T. -0.12 min
Lab File: VX018626.D
Acq: 28 Sep 2020 19:43

Tgt Ion: 63 Resp: 10843
Ion Ratio Lower Upper
63 100
112 0.8 4.1 6.1#





#39

cis-1,3-Dichloropropene

Concen: 0.206 ug/L

RT: 8.37 min Scan# 1195

Delta R.T. -0.04 min

Lab File: VX018626.D

Acq: 28 Sep 2020 19:43

Instrument :

MSVOA_X

ClientSampled :

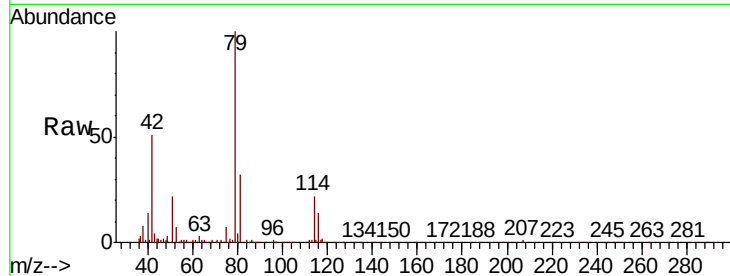
BG480

Tot Ion: 75 Resp: 3481

Ion Ratio Lower Upper

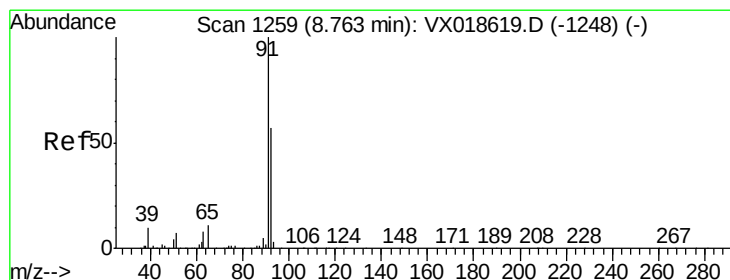
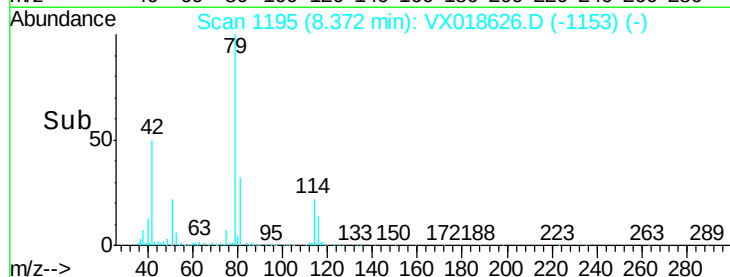
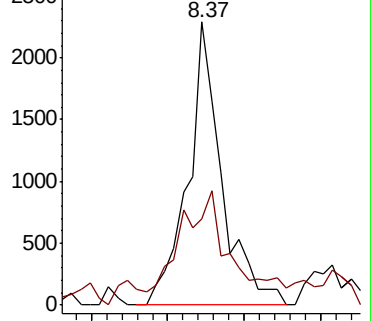
75 100

77 30.7 23.0 42.8



Abundance Ion 75.05 (74.75 to 75.75): VX0

Ion 77.05 (76.75 to 77.75): VX0



#42

Toluene

Concen: 0.398 ug/L

RT: 8.76 min Scan# 1259

Delta R.T. -0.00 min

Lab File: VX018626.D

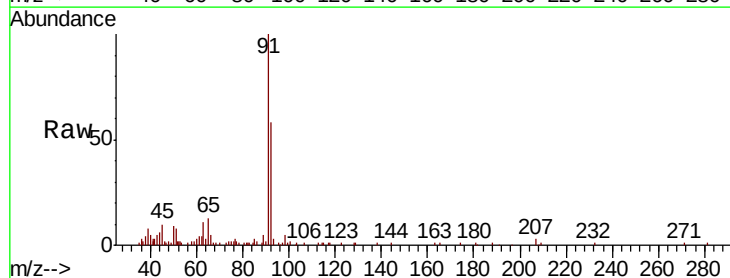
Acq: 28 Sep 2020 19:43

Tgt Ion: 91 Resp: 19250

Ion Ratio Lower Upper

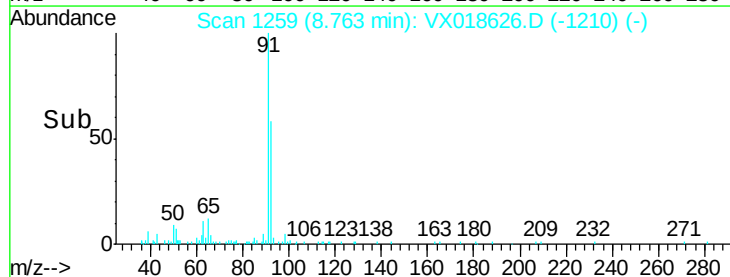
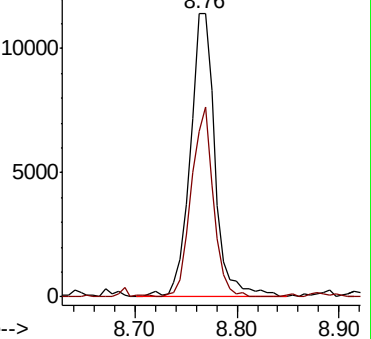
91 100

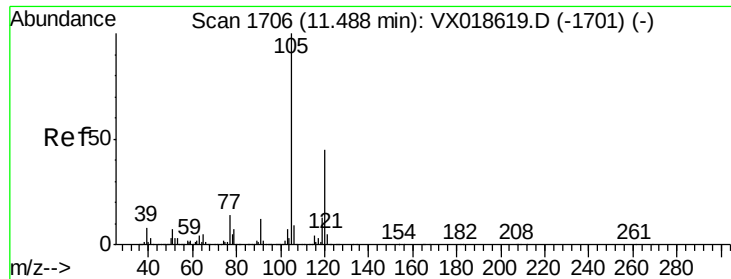
92 58.5 41.1 76.3



Abundance Ion 91.15 (90.85 to 91.85): VX0

Ion 92.15 (91.85 to 92.85): VX0





#43

1,3,5-Trimethylbenzene

Concen: 2.672 ug/L

RT: 11.65 min Scan# 1733

Delta R.T. 0.16 min

Lab File: VX018626.D

Acq: 28 Sep 2020 19:43

Instrument :

MSVOA_X

ClientSampled :

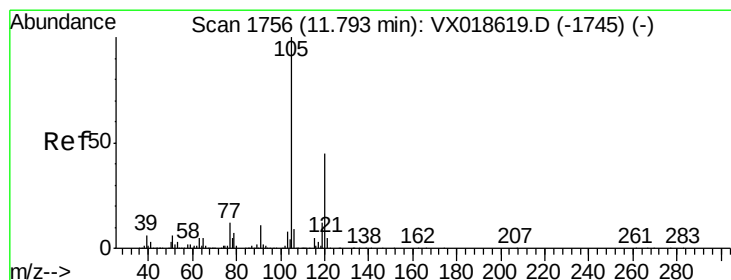
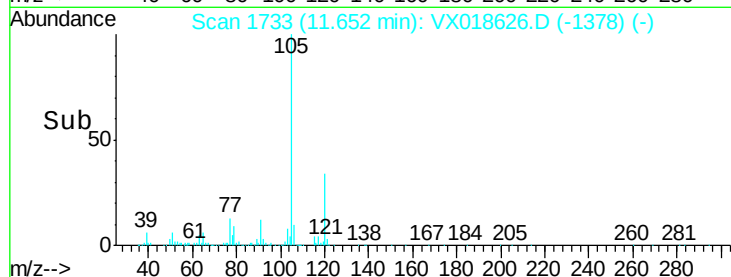
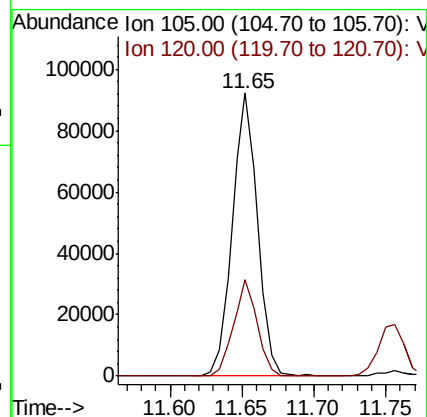
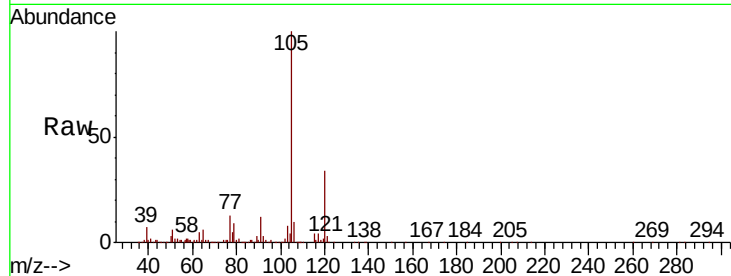
BG480

Tot Ion:105 Resp: 112910

Ion Ratio Lower Upper

105 100

120 32.4 37.2 55.8#



#44

1,2,4-Trimethylbenzene

Concen: 2.671 ug/L

RT: 11.65 min Scan# 1733

Delta R.T. -0.14 min

Lab File: VX018626.D

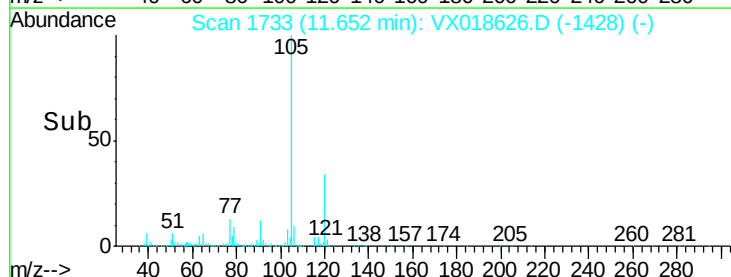
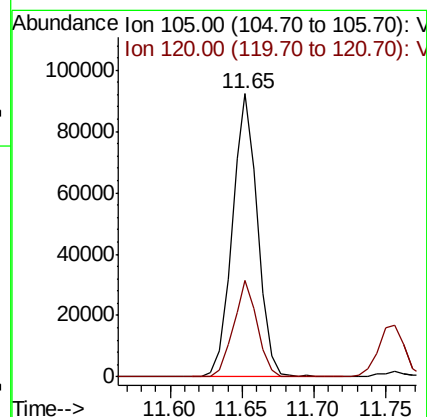
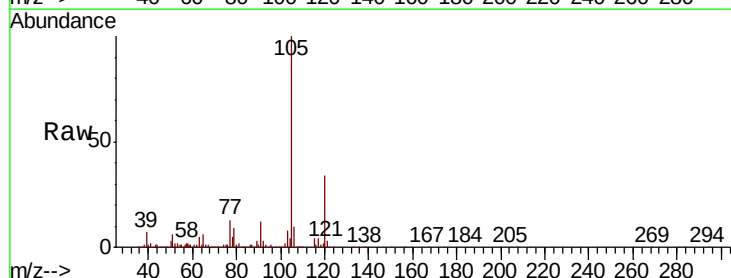
Acq: 28 Sep 2020 19:43

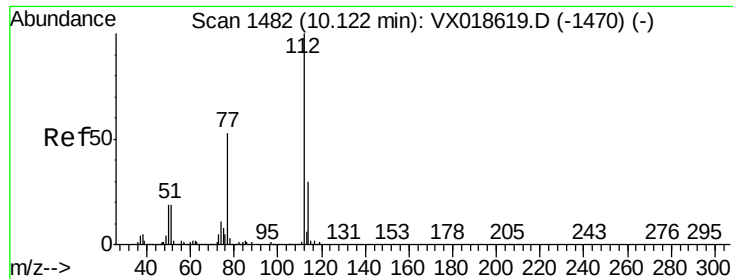
Tgt Ion:105 Resp: 112910

Ion Ratio Lower Upper

105 100

120 32.4 36.8 55.2#

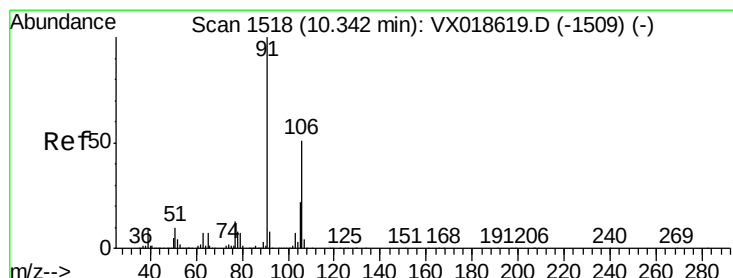
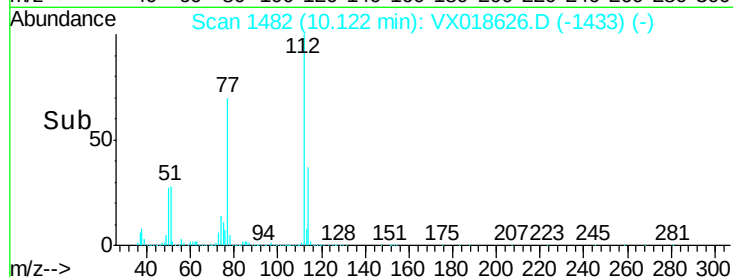
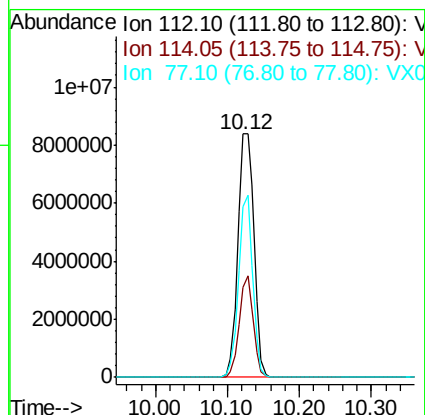
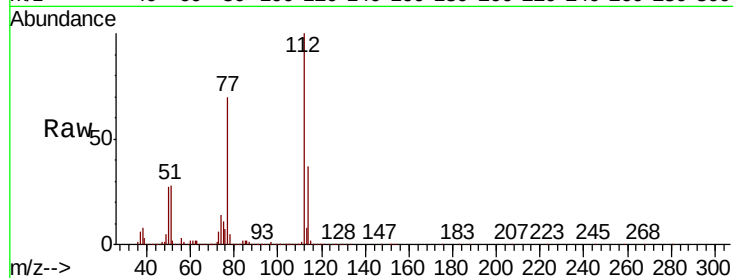




#53
Chlorobenzene
Concen: 408.899 ug/L
RT: 10.12 min Scan# 1482
Delta R.T. -0.00 min
Lab File: VX018626.D
Acq: 28 Sep 2020 19:43

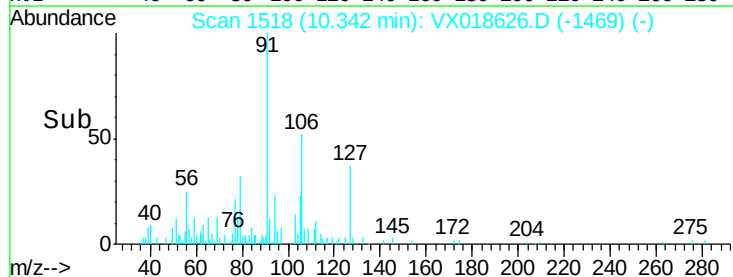
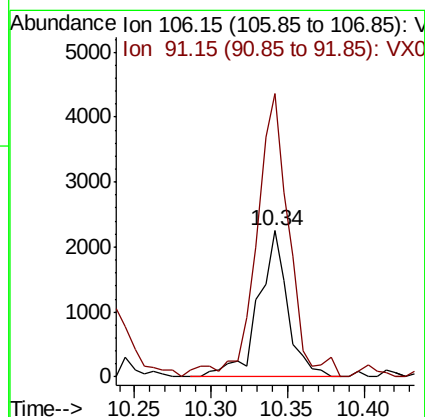
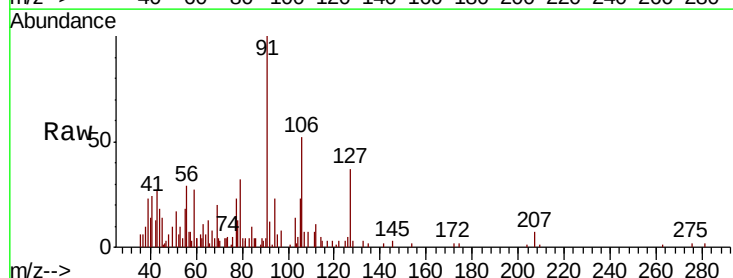
Instrument :
MSVOA_X
ClientSampleId :
BG480

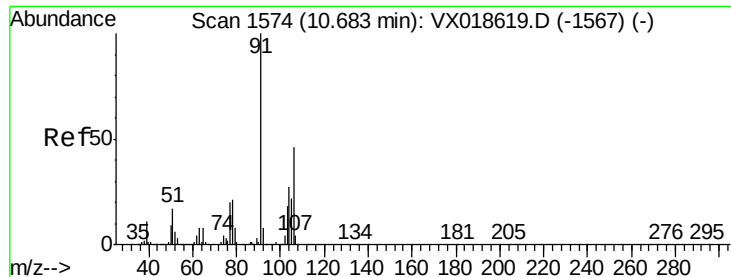
Tot Ion:112 Resp:13053554
Ion Ratio Lower Upper
112 100
114 36.9 20.6 38.4
77 70.3 46.6 69.8#



#55
m,p-xylene
Concen: 0.149 ug/L
RT: 10.34 min Scan# 1518
Delta R.T. -0.00 min
Lab File: VX018626.D
Acq: 28 Sep 2020 19:43

Tgt Ion:106 Resp: 2996
Ion Ratio Lower Upper
106 100
91 193.7 140.3 260.6





#56

o-xylene

Concen: 0.828 ug/L

RT: 10.68 min Scan# 1574

Delta R.T. -0.00 min

Lab File: VX018626.D

Acq: 28 Sep 2020 19:43

Instrument :

MSVOA_X

ClientSampled :

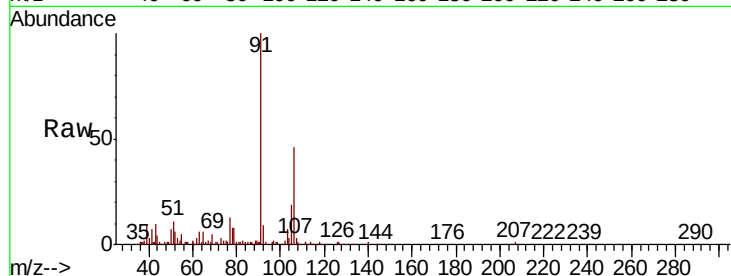
BG480

Tot Ion:106 Resp: 15742

Ion Ratio Lower Upper

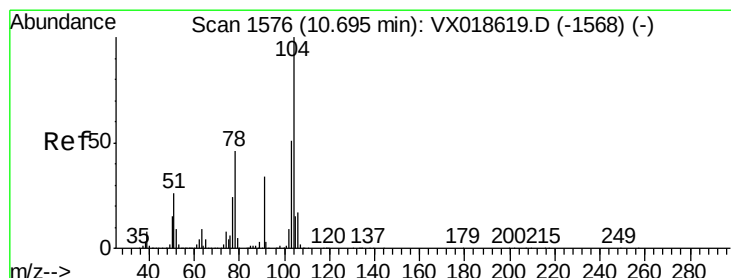
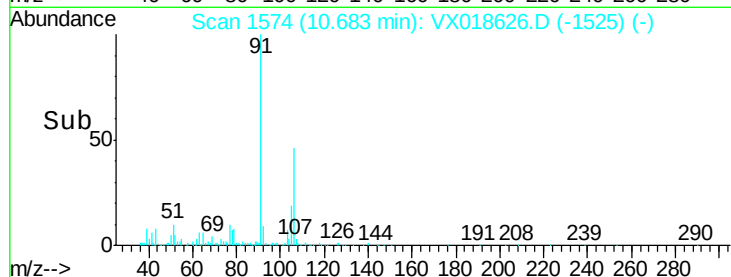
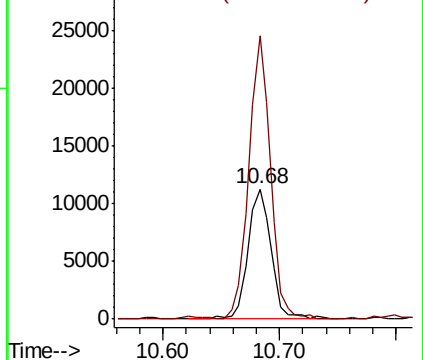
106 100

91 217.9 167.5 311.1



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VX0



#57

Styrene

Concen: 0.090 ug/L

RT: 10.70 min Scan# 1576

Delta R.T. -0.00 min

Lab File: VX018626.D

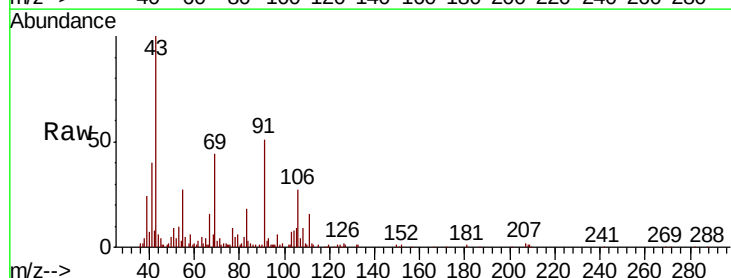
Acq: 28 Sep 2020 19:43

Tgt Ion:104 Resp: 2813

Ion Ratio Lower Upper

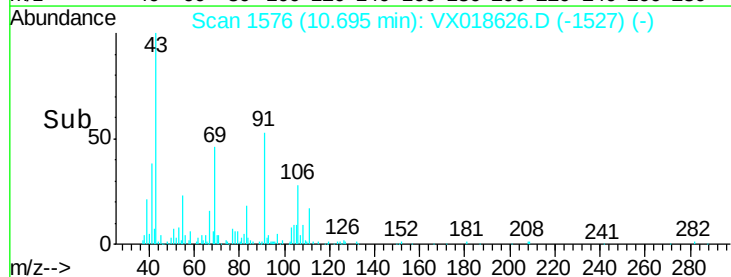
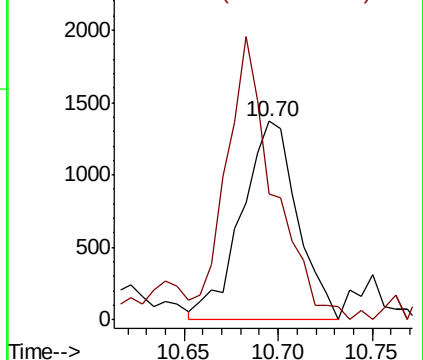
104 100

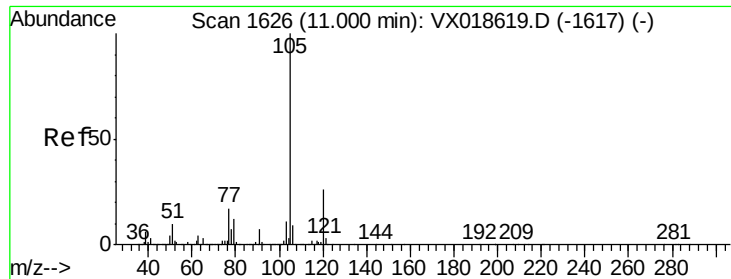
78 63.4 33.3 61.9#



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VX0





#58

Isopropylbenzene

Concen: 20.166 ug/L

RT: 11.00 min Scan# 1626

Delta R.T. -0.00 min

Lab File: VX018626.D

Acq: 28 Sep 2020 19:43

Instrument :

MSVOA_X

ClientSampleId :

BG480

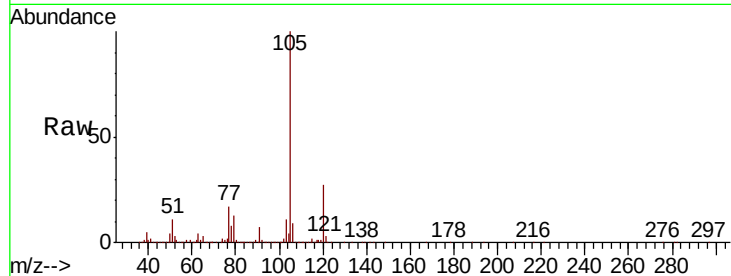
Tot Ion:105 Resp: 1028339

Ion Ratio Lower Upper

105 100

120 26.6 21.2 31.8

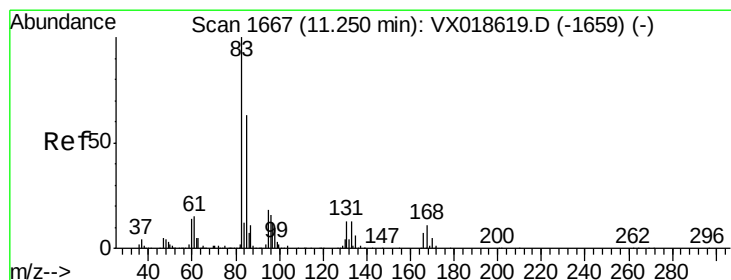
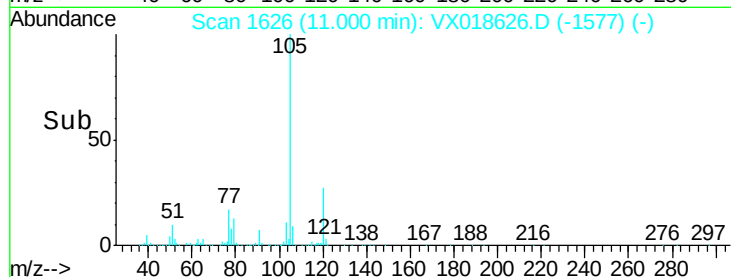
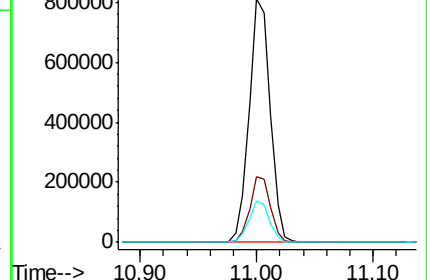
77 16.4 13.3 19.9



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#60

1,1,2,2-Tetrachloroethane

Concen: 0.175 ug/L

RT: 11.27 min Scan# 1671

Delta R.T. 0.02 min

Lab File: VX018626.D

Acq: 28 Sep 2020 19:43

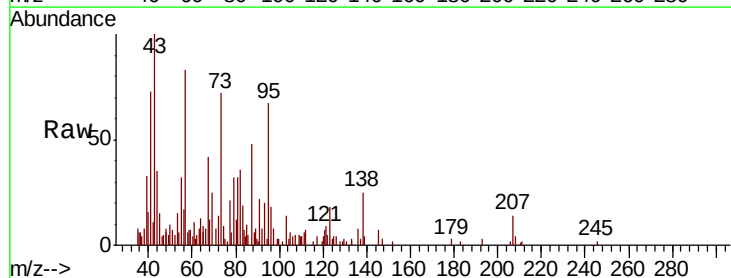
Tgt Ion: 83 Resp: 1695

Ion Ratio Lower Upper

83 100

85 37.2 48.5 90.1#

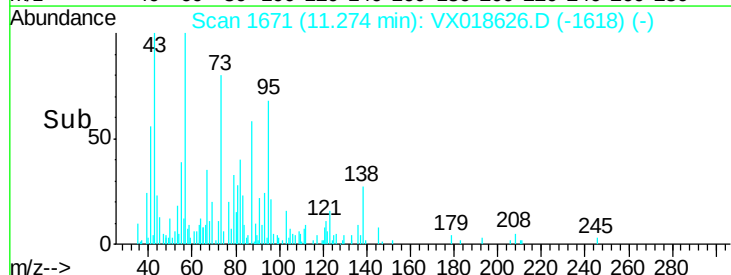
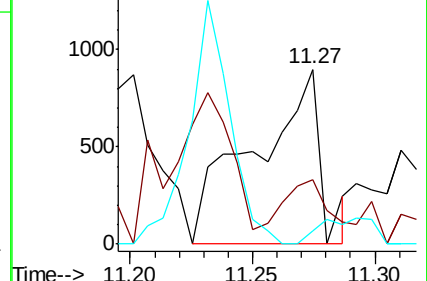
131 7.2 7.8 11.6#

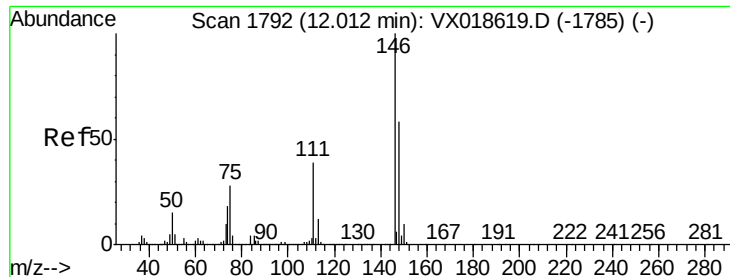


Abundance Ion 82.95 (82.65 to 83.65): VX0

Ion 85.00 (84.70 to 85.70): VX0

Ion 130.95 (130.65 to 131.65): V

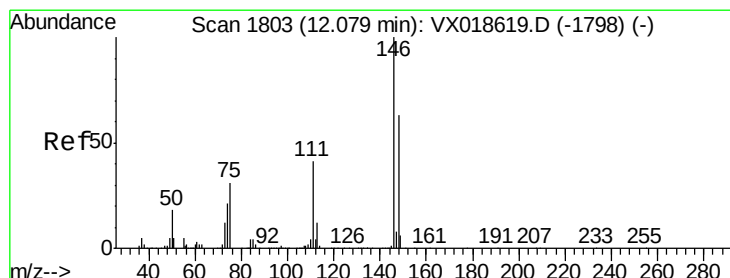
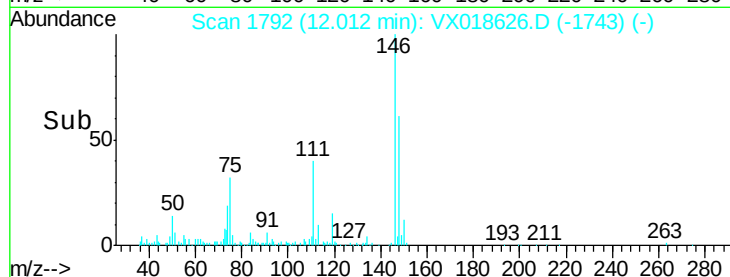
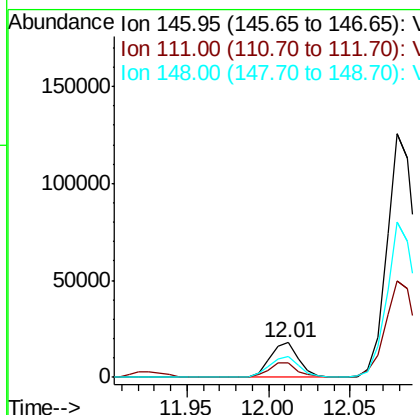
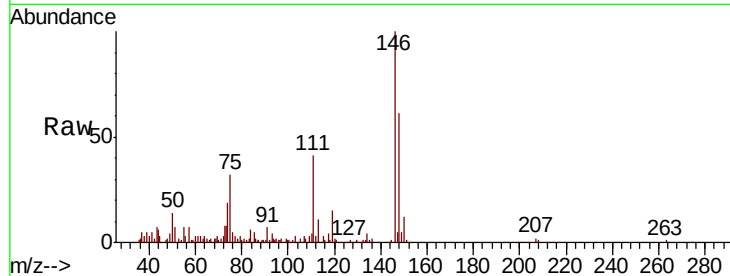




#63
 1,3-Dichlorobenzene
 Concen: 0.825 ug/L
 RT: 12.01 min Scan# 1792
 Delta R.T. -0.00 min
 Lab File: VX018626.D
 Acq: 28 Sep 2020 19:43

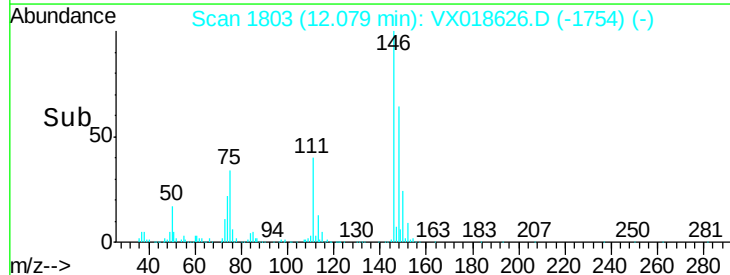
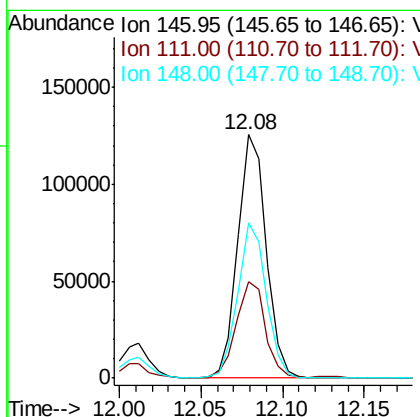
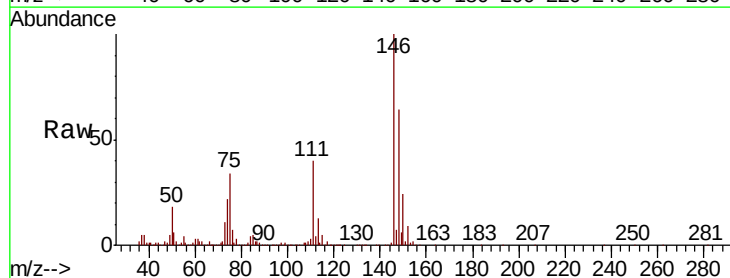
Instrument :
 MSVOA_X
 ClientSampleId :
 BG480

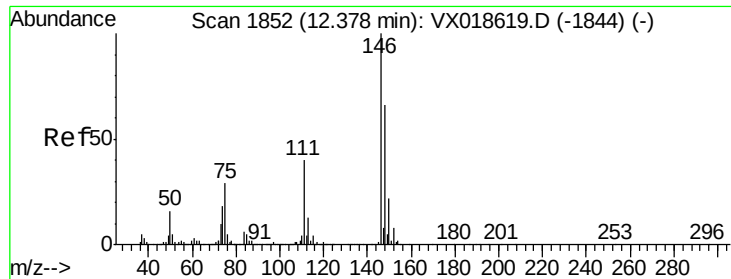
Tot Ion	Ratio	Lower	Upper
146	100		
111	40.7	26.7	49.7
148	61.5	44.4	82.5



#64
 1,4-Dichlorobenzene
 Concen: 5.656 ug/L
 RT: 12.08 min Scan# 1803
 Delta R.T. -0.00 min
 Lab File: VX018626.D
 Acq: 28 Sep 2020 19:43

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.6	28.8	53.4
148	63.8	44.9	83.3

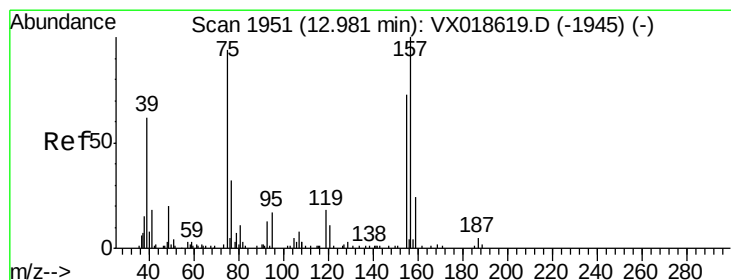
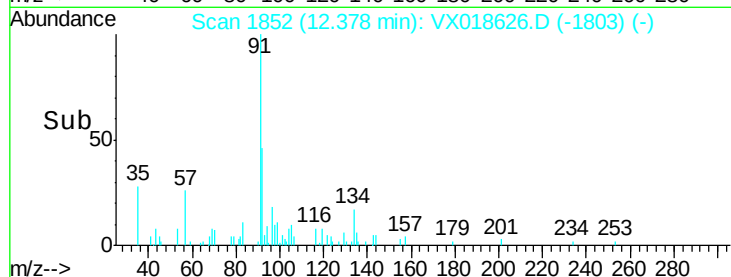
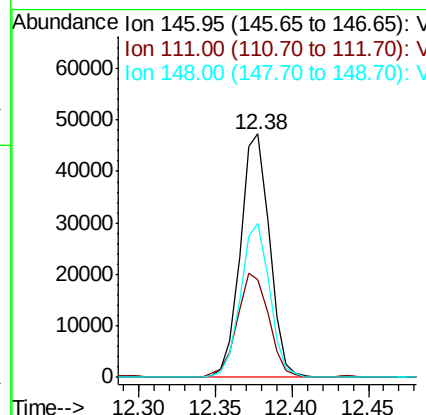
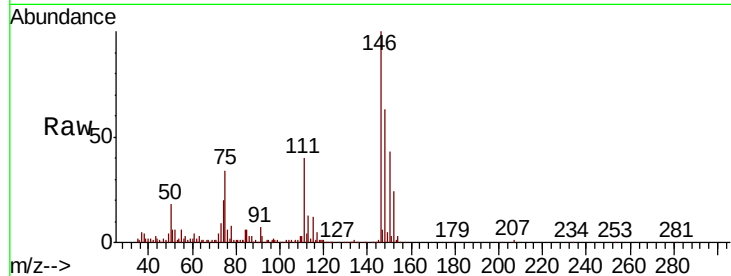




#66
 1,2-Dichlorobenzene
 Concen: 2.513 ug/L
 RT: 12.38 min Scan# 1852
 Delta R.T. -0.00 min
 Lab File: VX018626.D
 Acq: 28 Sep 2020 19:43

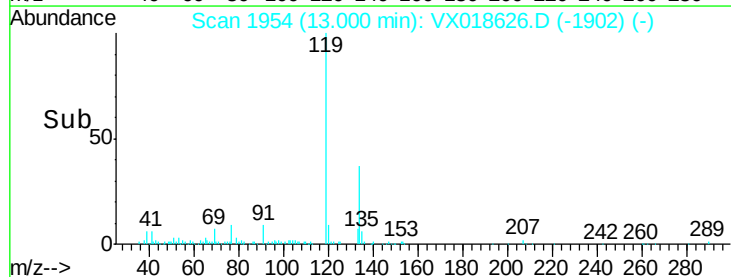
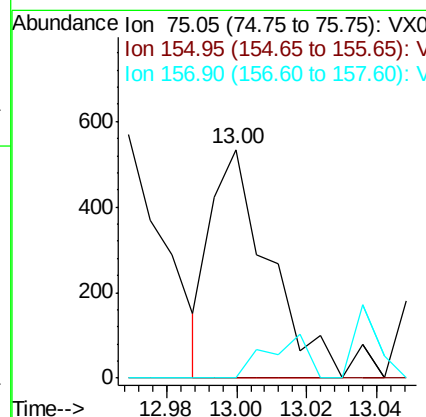
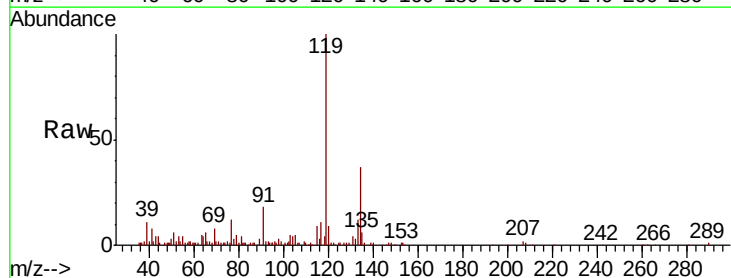
Instrument :
 MSVOA_X
 ClientSampleId :
 BG480

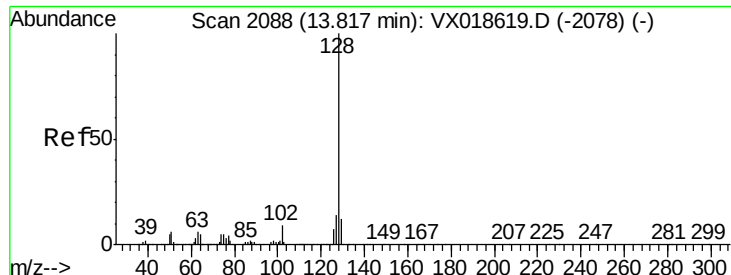
Tot Ion	Ratio	Lower	Upper
146	100		
111	40.1	33.6	50.4
148	63.1	53.4	80.2



#67
 1,2-Dibromo-3-chloropropane
 Concen: 0.290 ug/L
 RT: 13.00 min Scan# 1954
 Delta R.T. 0.02 min
 Lab File: VX018626.D
 Acq: 28 Sep 2020 19:43

Tgt Ion	Ratio	Lower	Upper
75	100		
155	0.0	54.6	81.8#
157	0.0	73.5	110.3#





#70

Naphthalene

Concen: 0.103 ug/L

RT: 13.82 min Scan# 2088

Delta R.T. -0.00 min

Lab File: VX018626.D

Acq: 28 Sep 2020 19:43

Instrument :

MSVOA_X

ClientSampleId :

BG480

Tot Ion:128 Resp: 2859

Ion Ratio Lower Upper

128 100

129 31.4 8.8 13.2#

127 9.1 10.7 16.1#

