

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100120\
 Data File : VX018735.D
 Acq On : 01 Oct 2020 20:53
 Operator : JC/SP
 Sample : L4171-13DL 25X
 Misc : 25.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BG3W0DL

Quant Time: Oct 02 09:01:59 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\SOMXTR092820WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Oct 02 08:54:14 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.83	114	215230	5.00	ug/L	0.00
28) Chlorobenzene-d5	10.10	117	208542	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	12.06	152	118918	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	69822	6.20	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	124.00%
7) Chloroethane-d5	1.70	69	53645	5.65	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	113.00%
11) 1,1-Dichloroethene-d2	2.34	63	119294	4.80	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	96.00%
20) 2-Butanone-d5	4.56	46	178252	62.07	ug/L	-0.01
Spiked Amount	50.000	Range	40 - 130	Recovery	=	124.14%
24) Chloroform-d	5.14	84	150502	5.64	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	112.80%
26) 1,2-Dichloroethane-d4	6.03	65	91651	5.89	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	117.80%
32) Benzene-d6	6.05	84	261676	5.44	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	108.80%
36) 1,2-Dichloropropane-d6	7.37	67	78281	5.34	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	106.80%
41) Toluene-d8	8.70	98	252044	5.26	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	105.20%
45) trans-1,3-Dichloropropene-	8.99	79	39975	6.12	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	122.40%
48) 2-Hexanone-d5	9.43	63	146026	62.51	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	125.02%
59) 1,1,2,2-Tetrachloroethane-	11.23	84	62436	5.72	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	114.40%
65) 1,2-Dichlorobenzene-d4	12.36	152	107438	5.53	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	110.60%

Target Compounds

					Ovalue
3) Chloromethane	1.31	50	976	0.088 ug/L	90
5) Vinyl chloride	1.39	62	659	0.057 ug/L #	1
6) Bromomethane	1.64	94	643	0.092 ug/L	83
8) Chloroethane	1.94	64	2817	0.440 ug/L #	52
13) Acetone	2.45	43	1479	0.930 ug/L	95
14) Carbon disulfide	2.62	76	14733	0.461 ug/L	96
15) Methyl Acetate	2.82	43	226553	51.492 ug/L #	49
16) Methylene chloride	2.83	84	10543	0.734 ug/L #	13
17) Methyl tert-butyl Ether	3.16	73	1671	0.071 ug/L #	1
19) 1,1-Dichloroethane	3.50	63	20601	1.094 ug/L #	14
30) Cyclohexane	5.55	56	7465	0.472 ug/L #	80
35) Methylcyclohexane	7.43	83	4204	0.260 ug/L	86
37) 1,2-Dichloropropane	7.37	63	10958	1.021 ug/L #	86
39) cis-1,3-Dichloropropene	8.38	75	3139	0.206 ug/L	84
43) 1,3,5-Trimethylbenzene	11.49	105	1312618	34.568 ug/L	99
44) 1,2,4-Trimethylbenzene	11.79	105	1947843	51.275 ug/L	97
47) 1,1,2-Trichloroethane	9.15	97	2146	0.279 ug/L #	20

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 Quant Title : TRACE VOA SOM01.0
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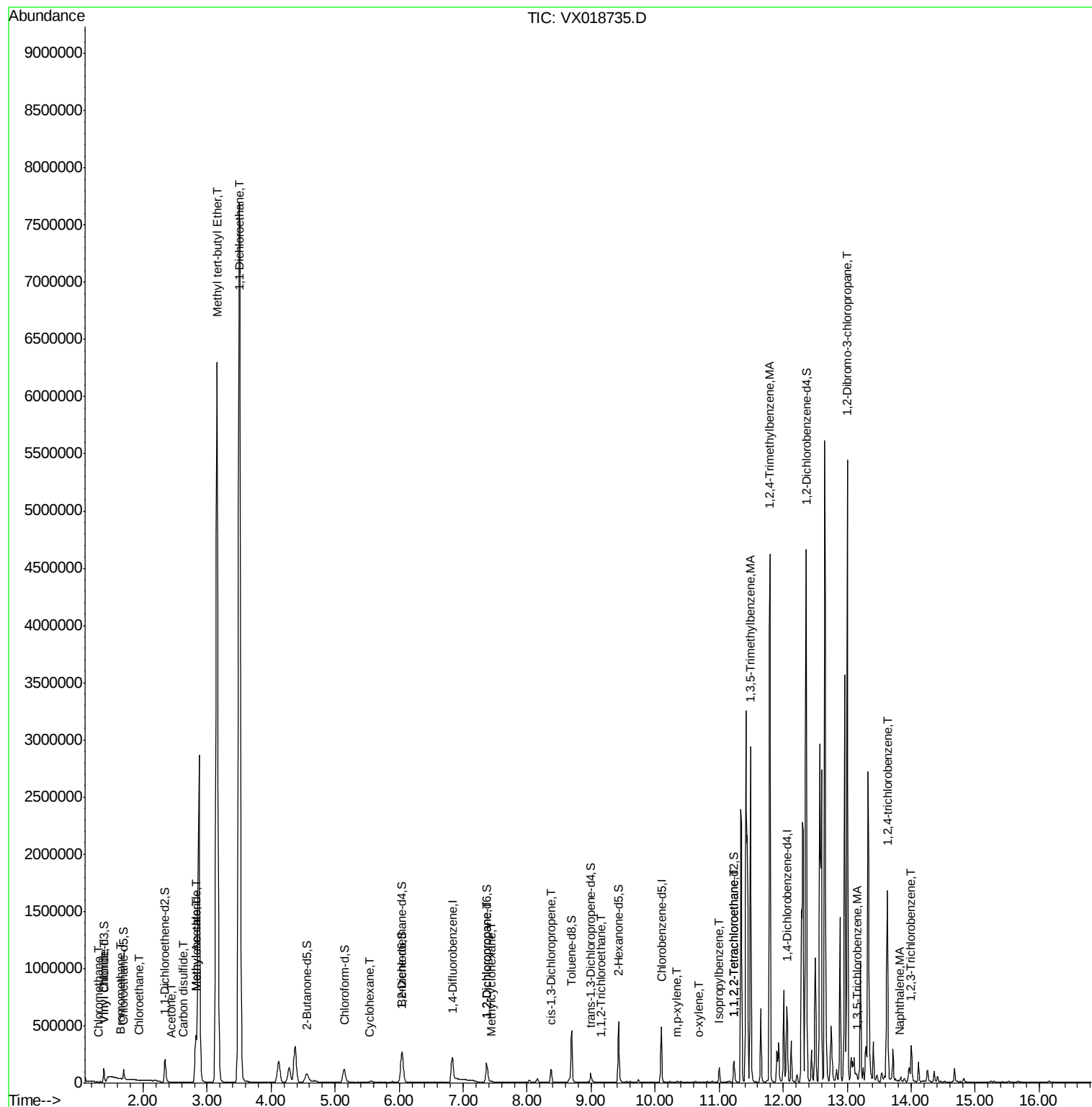
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
55) m,p-xylene	10.34	106	1799	0.099	ug/L	86
56) o-xylene	10.68	106	924	0.054	ug/L	75
58) Isopropylbenzene	11.00	105	61688	1.346	ug/L	98
60) 1,1,2,2-Tetrachloroethane	11.23	83	1325	0.152	ug/L #	41
67) 1,2-Dibromo-3-chloropropan	13.00	75	17695	8.641	ug/L #	9
68) 1,3,5-Trichlorobenzene	13.16	180	1175	0.061	ug/L #	76
69) 1,2,4-trichlorobenzene	13.63	180	299218	18.807	ug/L	95
70) Naphthalene	13.82	128	5630	0.209	ug/L #	75
71) 1,2,3-Trichlorobenzene	14.01	180	66666	4.637	ug/L	95

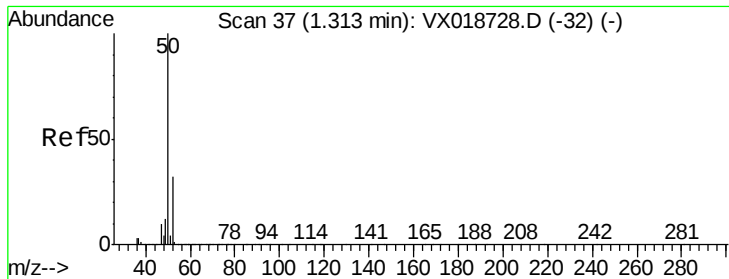
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#3

Chloromethane

Concen: 0.088 ug/L

RT: 1.31 min Scan# 37

Delta R.T. 0.00 min

Lab File: VX018735.D

Acq: 01 Oct 2020 20:53

Instrument :

MSVOA_X

ClientSampleId :

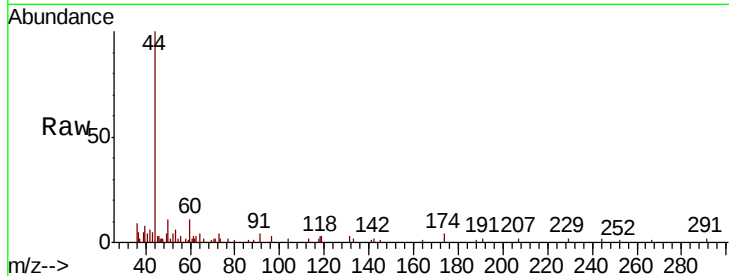
BG3W0DL

Tot Ion: 50 Resp: 976

Ion Ratio Lower Upper

50 100

52 35.6 21.2 39.4



Abundance Ion 50.05 (49.75 to 50.75): VX0

Ion 52.05 (51.75 to 52.75): VX0

1.31

400

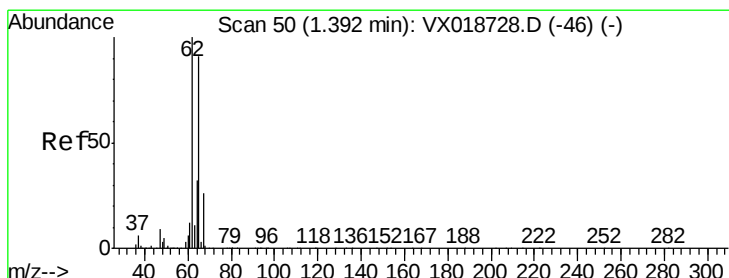
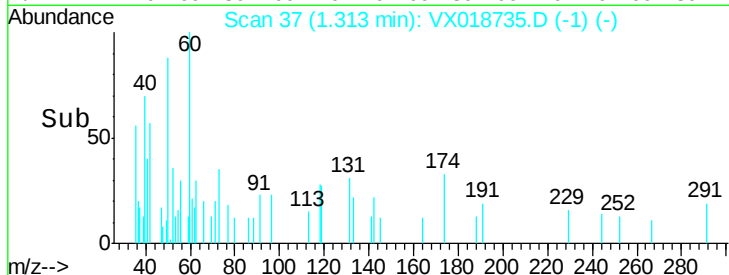
300

200

100

0

Time--> 1.25 1.30 1.35



#5

Vinyl chloride

Concen: 0.057 ug/L

RT: 1.39 min Scan# 49

Delta R.T. -0.01 min

Lab File: VX018735.D

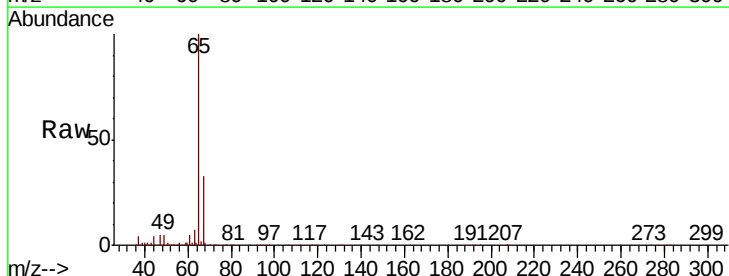
Acq: 01 Oct 2020 20:53

Tgt Ion: 62 Resp: 659

Ion Ratio Lower Upper

62 100

64 157.6 23.6 43.8#



Abundance Ion 62.00 (61.70 to 62.70): VX0

Ion 64.10 (63.80 to 64.80): VX0

25000

20000

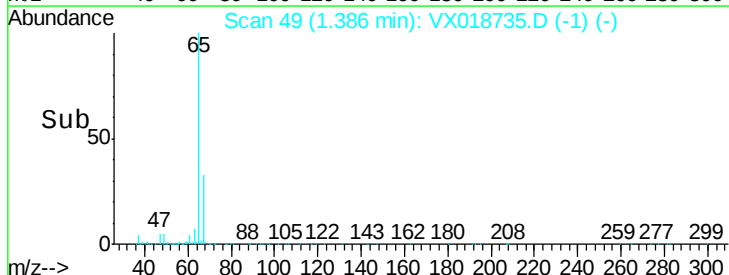
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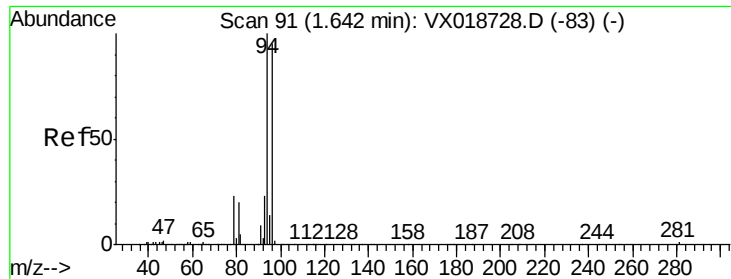
10000

5000

0

Time--> 1.36 1.38 1.40 1.42





#6

Bromomethane

Concen: 0.092 ug/L

RT: 1.64 min Scan# 90

Delta R.T. -0.01 min

Lab File: VX018735.D

Acq: 01 Oct 2020 20:53

Instrument :

MSVOA_X

ClientSampled :

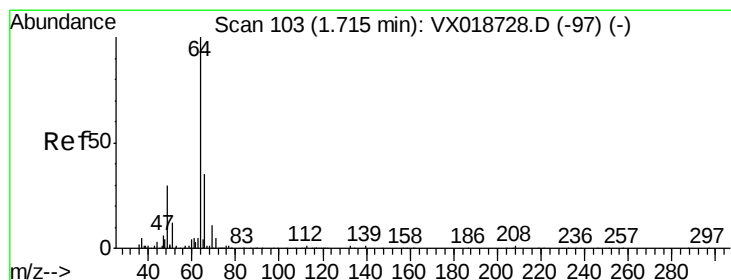
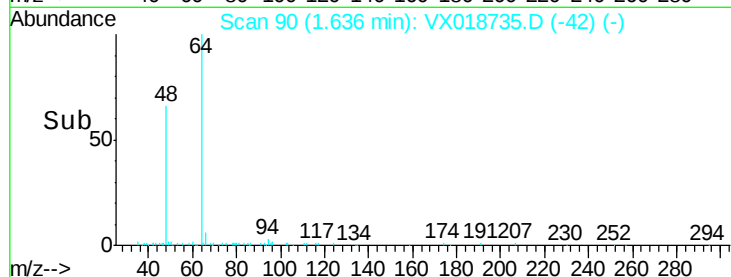
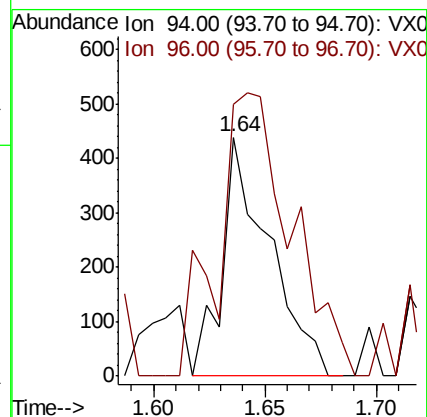
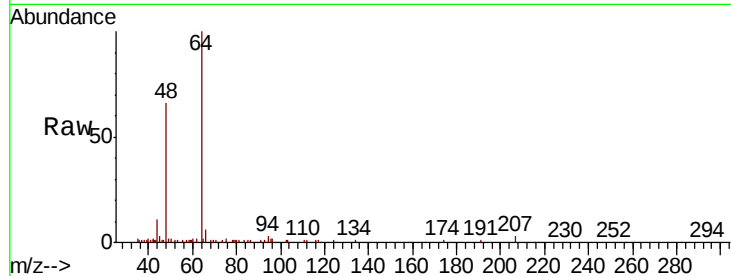
BG3W0DL

Tot Ion: 94 Resp: 643

Ion Ratio Lower Upper

94 100

96 113.9 67.8 125.8



#8

Chloroethane

Concen: 0.440 ug/L

RT: 1.94 min Scan# 140

Delta R.T. 0.23 min

Lab File: VX018735.D

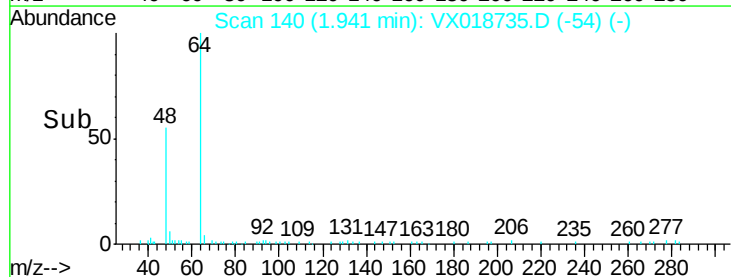
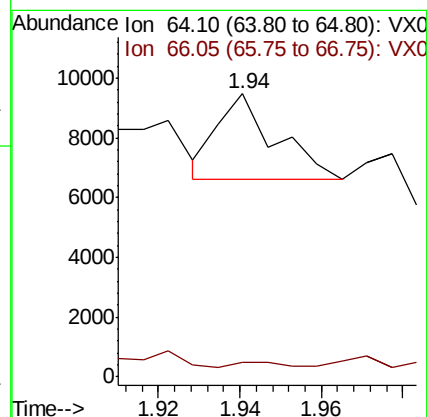
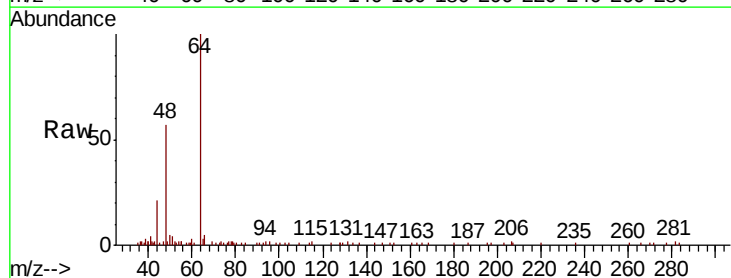
Acq: 01 Oct 2020 20:53

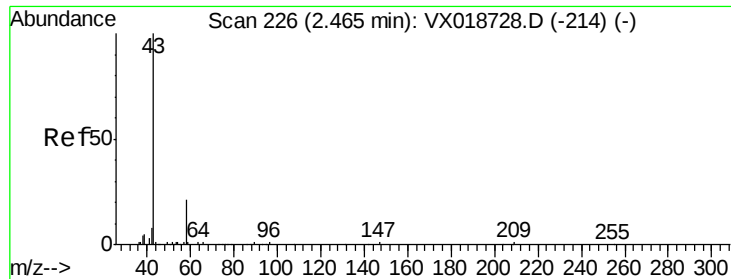
Tgt Ion: 64 Resp: 2817

Ion Ratio Lower Upper

64 100

66 5.0 22.3 41.3#





#13

Acetone

Concen: 0.930 ug/L

RT: 2.45 min Scan# 224

Delta R.T. -0.01 min

Lab File: VX018735.D

Acq: 01 Oct 2020 20:53

Instrument :

MSVOA_X

ClientSampled :

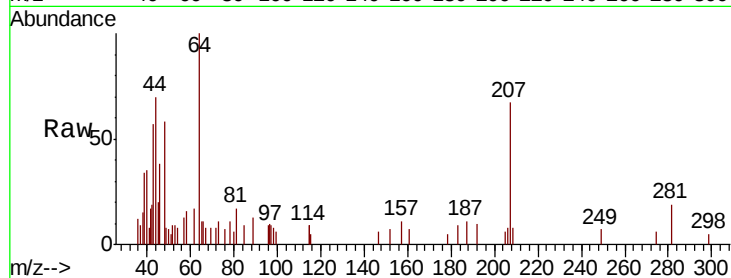
BG3W0DL

Tot Ion: 43 Resp: 1479

Ion Ratio Lower Upper

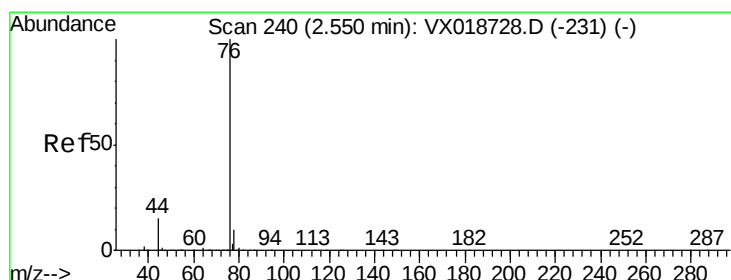
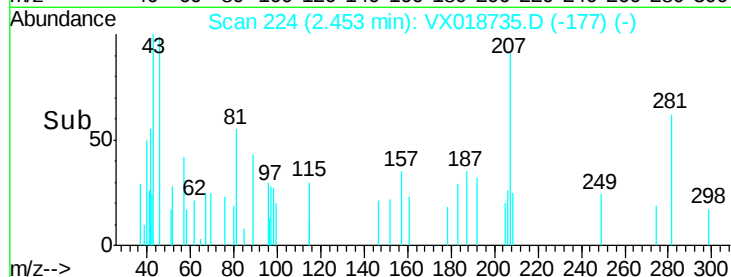
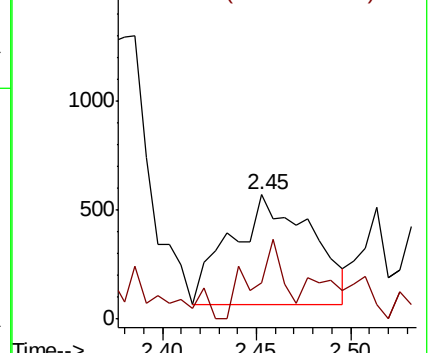
43 100

58 28.1 0.0 61.6



Abundance Ion 43.05 (42.75 to 43.75): VX0

Ion 58.05 (57.75 to 58.75): VX0



#14

Carbon disulfide

Concen: 0.461 ug/L

RT: 2.62 min Scan# 251

Delta R.T. 0.07 min

Lab File: VX018735.D

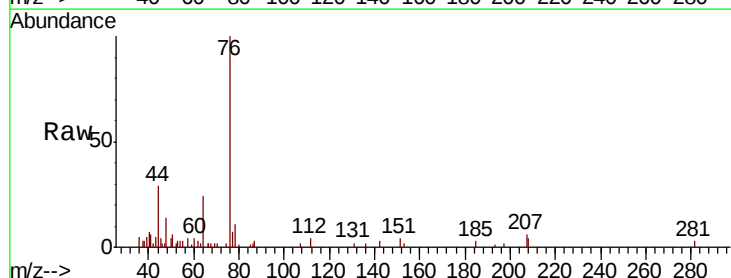
Acq: 01 Oct 2020 20:53

Tgt Ion: 76 Resp: 14733

Ion Ratio Lower Upper

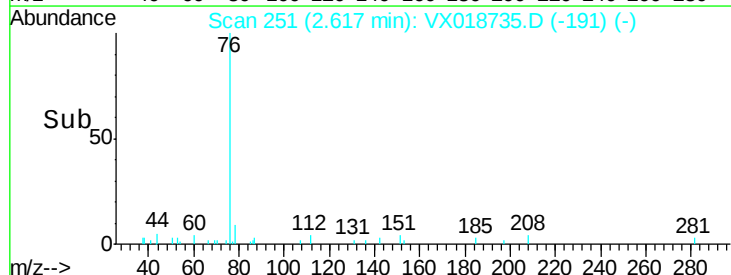
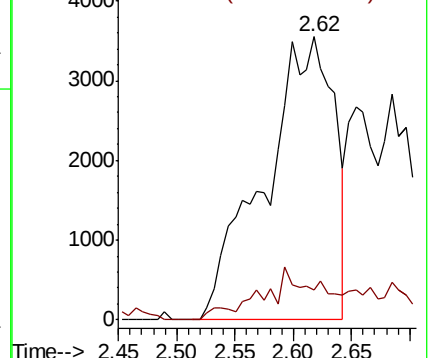
76 100

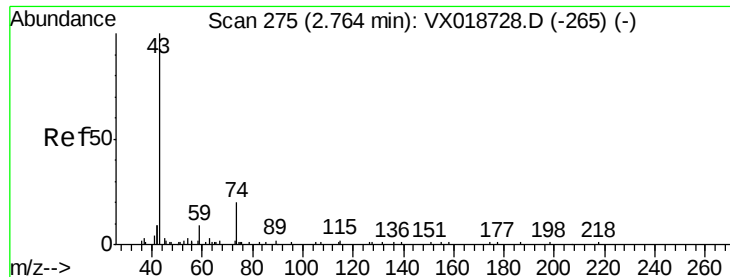
78 10.8 7.4 11.0



Abundance Ion 76.05 (75.75 to 76.75): VX0

Ion 78.00 (77.70 to 78.70): VX0

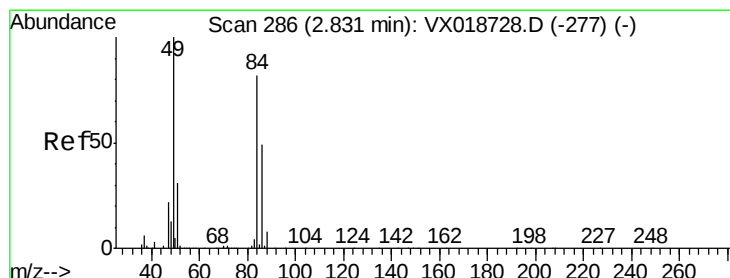
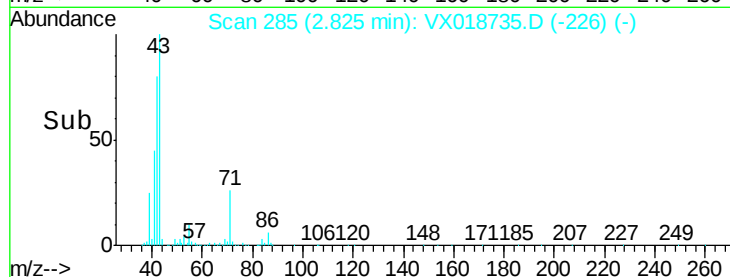
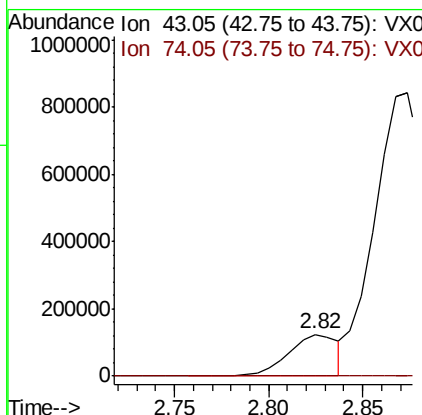
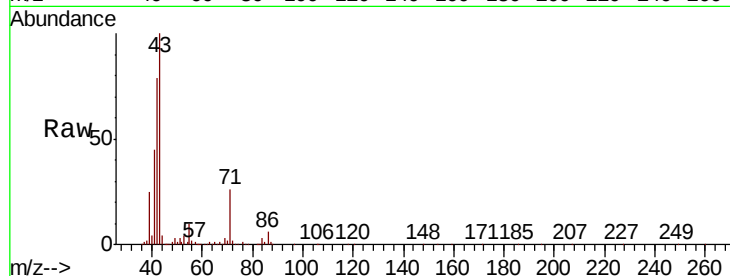




#15
Methvl Acetate
Concen: 51.492 ug/L
RT: 2.82 min Scan# 285
Delta R.T. 0.06 min
Lab File: VX018735.D
Acq: 01 Oct 2020 20:53

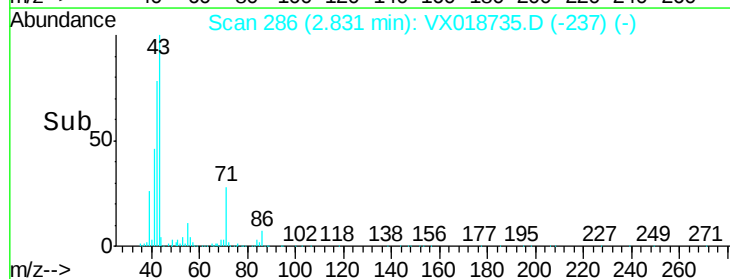
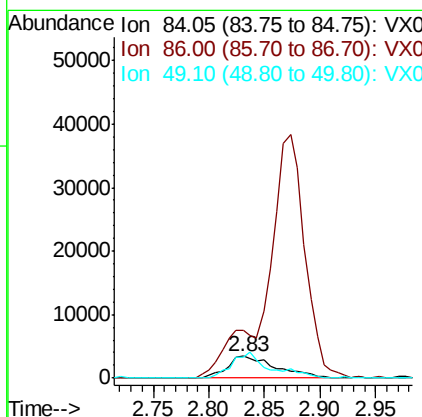
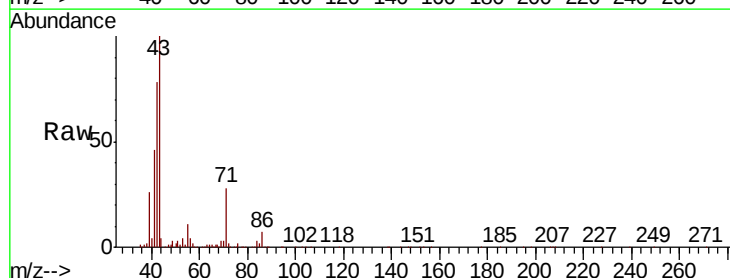
Instrument :
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ClientSampleId :
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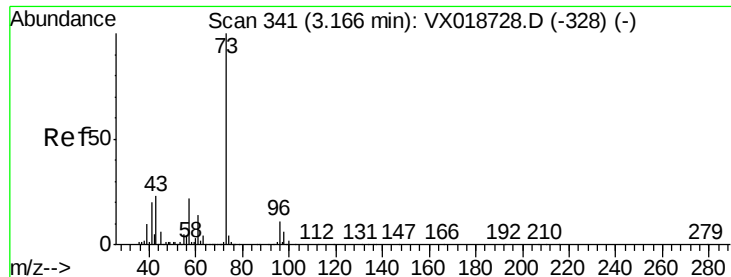
Tot Ion: 43 Resp: 226553
Ion Ratio Lower Upper
43 100
74 0.1 21.2 31.8#



#16
Methylene chloride
Concen: 0.734 ug/L
RT: 2.83 min Scan# 286
Delta R.T. 0.00 min
Lab File: VX018735.D
Acq: 01 Oct 2020 20:53

Tgt Ion: 84 Resp: 10543
Ion Ratio Lower Upper
84 100
86 223.5 41.9 77.7#
49 94.7 80.8 150.2

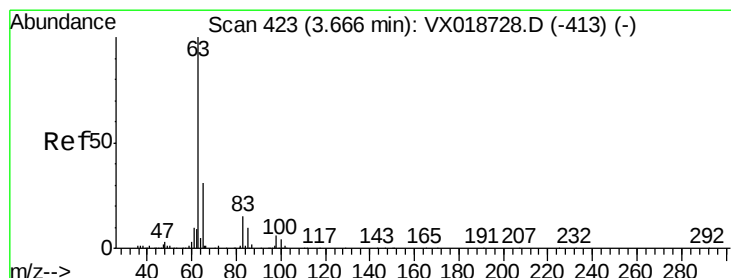
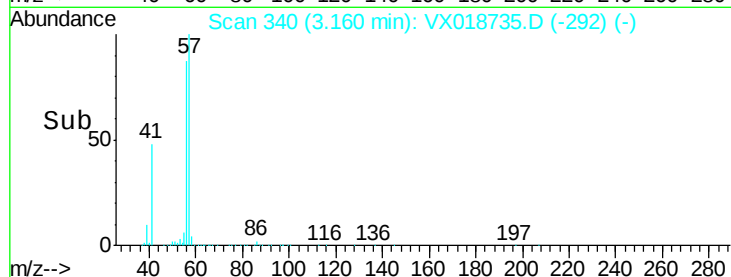
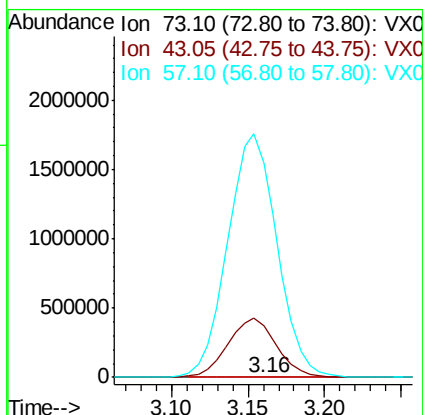
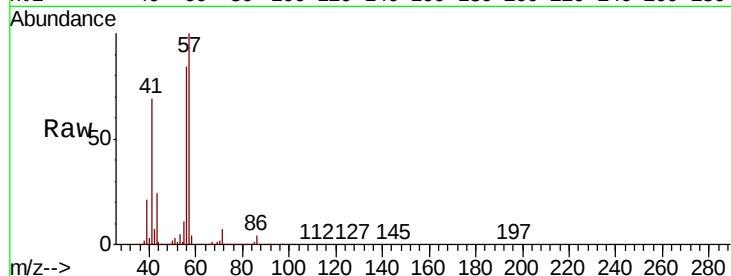




#17
Methvl tert-butvl Ether
Concen: 0.071 ug/L
RT: 3.16 min Scan# 340
Delta R.T. -0.01 min
Lab File: VX018735.D
Acq: 01 Oct 2020 20:53

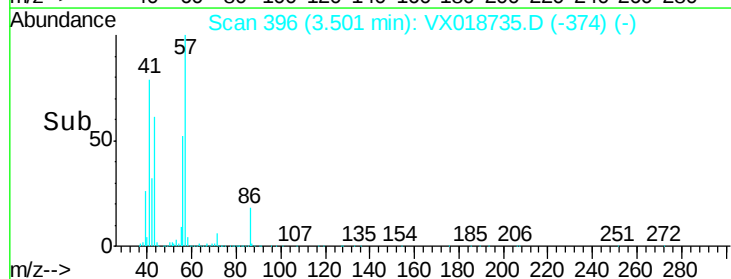
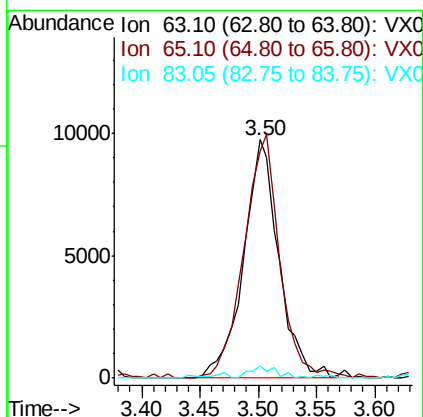
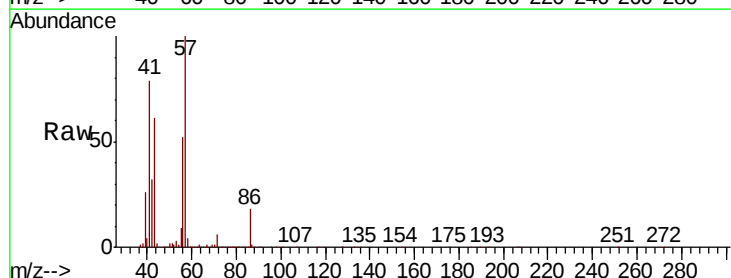
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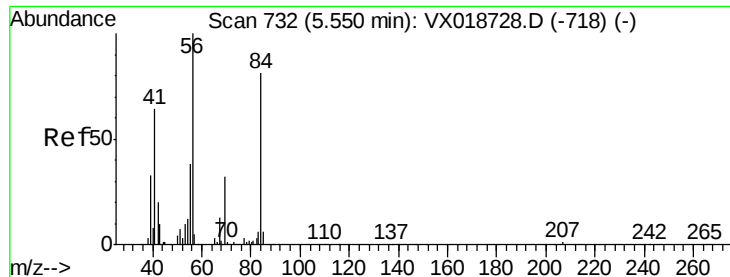
Tot Ion: 73 Resp: 1671
Ion Ratio Lower Upper
73 100
43 56112.1 18.6 27.8#
57 236022.8 17.3 25.9#



#19
1,1-Dichloroethane
Concen: 1.094 ug/L
RT: 3.50 min Scan# 396
Delta R.T. -0.16 min
Lab File: VX018735.D
Acq: 01 Oct 2020 20:53

Tgt Ion: 63 Resp: 20601
Ion Ratio Lower Upper
63 100
65 95.5 22.7 42.1#
83 5.0 9.3 17.3#

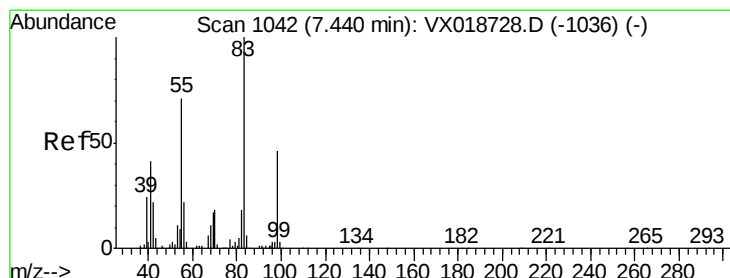
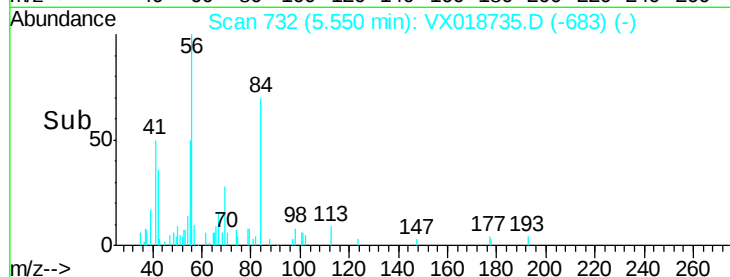
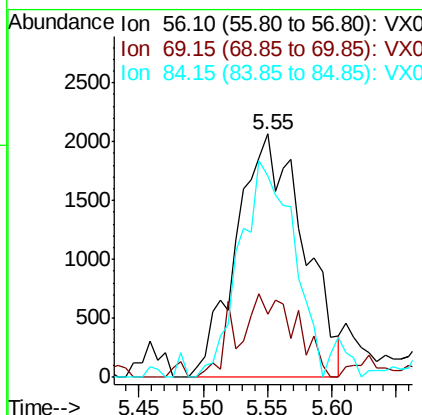
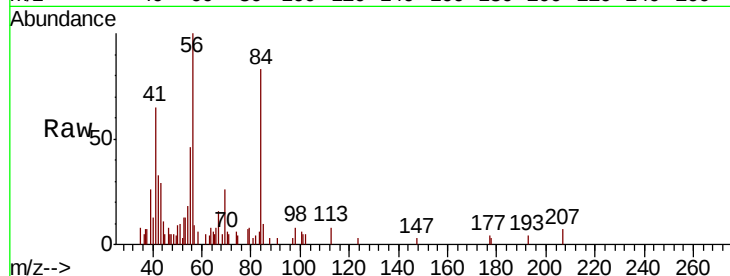




#30
Cyclohexane
Concen: 0.472 ug/L
RT: 5.55 min Scan# 732
Delta R.T. 0.00 min
Lab File: VX018735.D
Acq: 01 Oct 2020 20:53

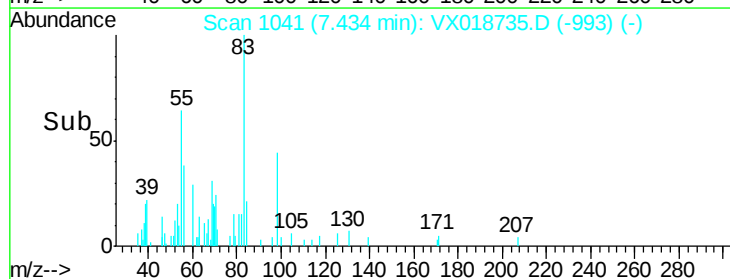
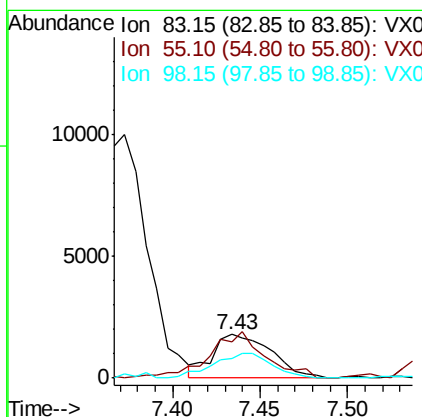
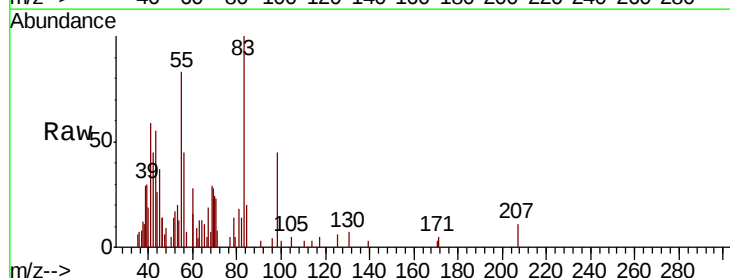
Instrument :
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ClientSampled :
BG3W0DL

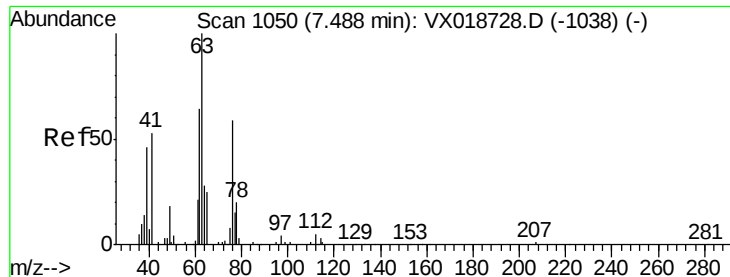
Tot Ion: 56 Resp: 7465
Ion Ratio Lower Upper
56 100
69 24.0 26.4 39.6#
84 71.2 72.7 109.1#



#35
Methylcyclohexane
Concen: 0.260 ug/L
RT: 7.43 min Scan# 1041
Delta R.T. -0.01 min
Lab File: VX018735.D
Acq: 01 Oct 2020 20:53

Tgt Ion: 83 Resp: 4204
Ion Ratio Lower Upper
83 100
55 100.6 67.4 101.0
98 56.6 41.1 61.7

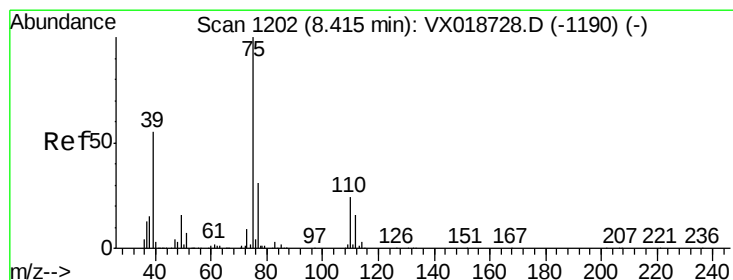
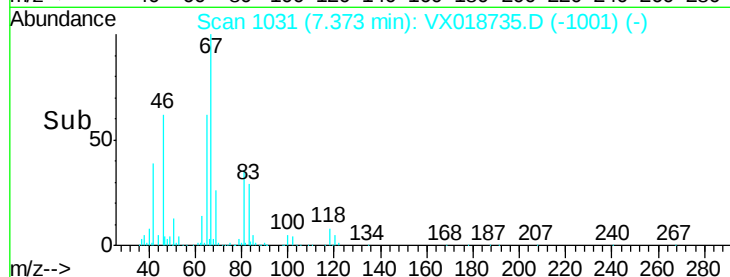
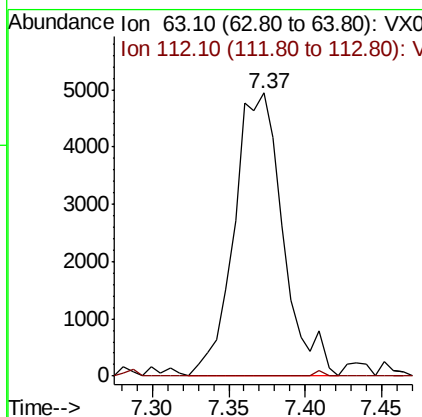
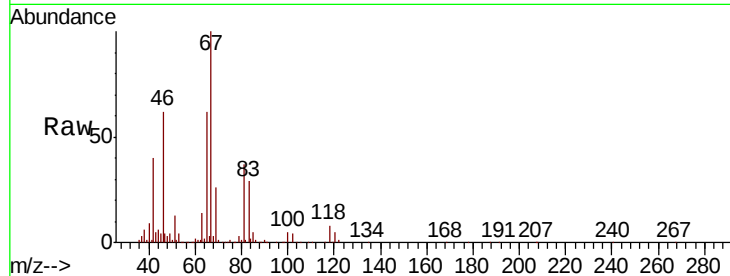




#37
 1,2-Dichloropropane
 Concen: 1.021 ug/L
 RT: 7.37 min Scan# 1031
 Delta R.T. -0.12 min
 Lab File: VX018735.D
 Acq: 01 Oct 2020 20:53

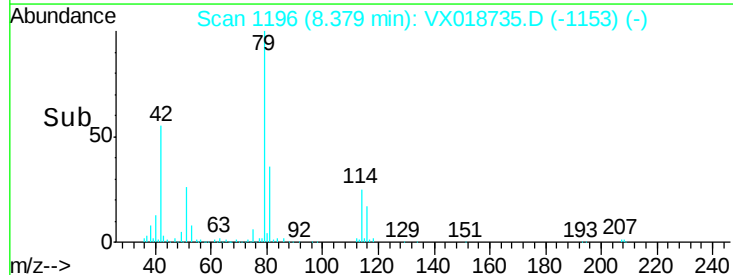
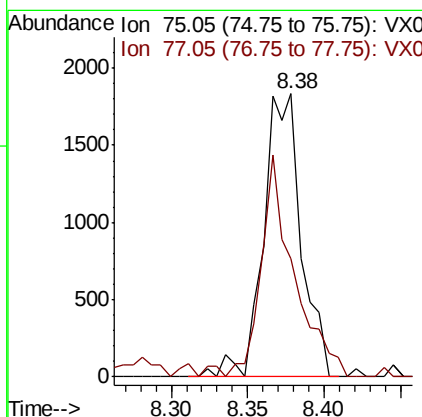
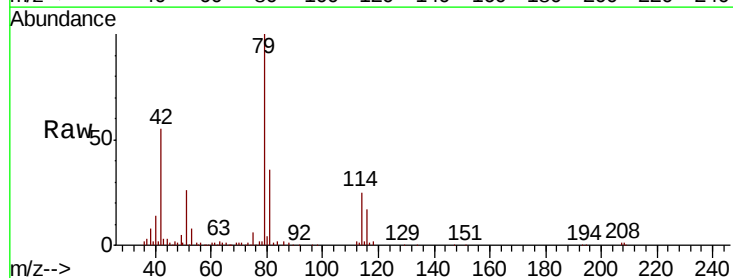
Instrument :
 MSVOA_X
 ClientSampled :
 BG3W0DL

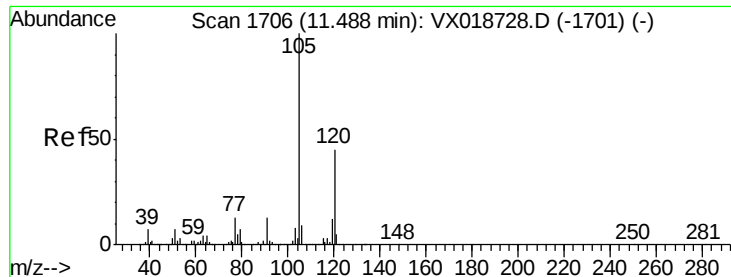
Tot Ion: 63 Resp: 10958
 Ion Ratio Lower Upper
 63 100
 112 0.3 4.1 6.1#



#39
 cis-1,3-Dichloropropene
 Concen: 0.206 ug/L
 RT: 8.38 min Scan# 1196
 Delta R.T. -0.04 min
 Lab File: VX018735.D
 Acq: 01 Oct 2020 20:53

Tgt Ion: 75 Resp: 3139
 Ion Ratio Lower Upper
 75 100
 77 41.8 23.0 42.8

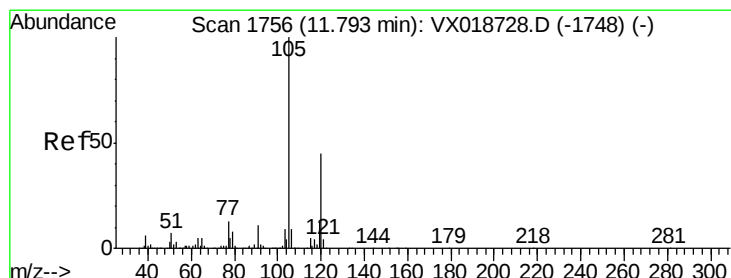
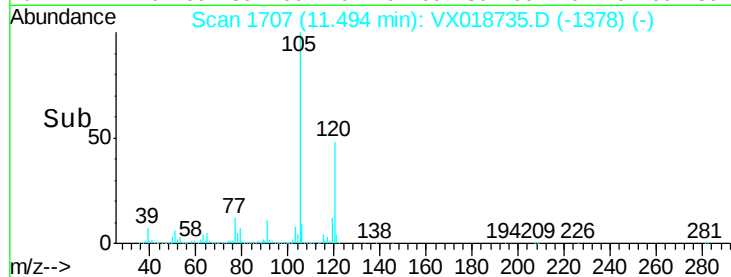
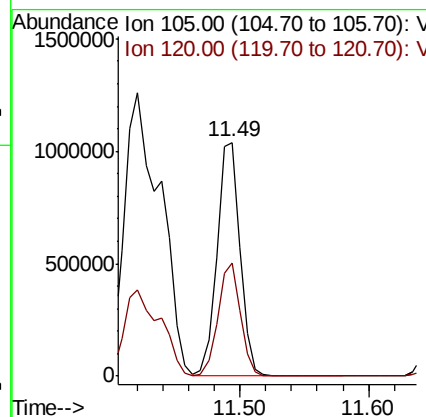
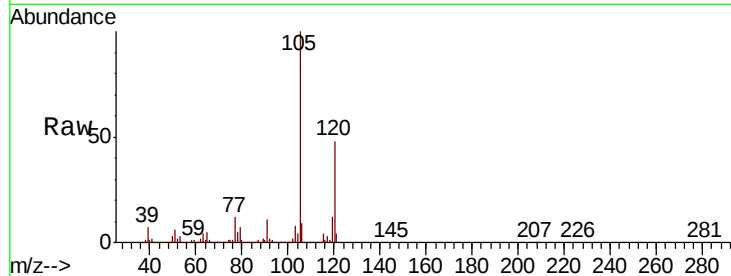




#43
 1,3,5-Trimethylbenzene
 Concen: 34.568 ug/L
 RT: 11.49 min Scan# 1707
 Delta R.T. 0.01 min
 Lab File: VX018735.D
 Acq: 01 Oct 2020 20:53

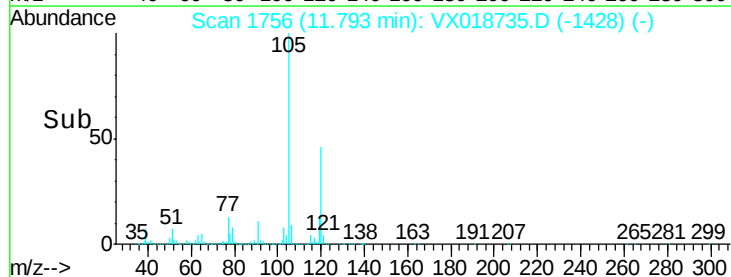
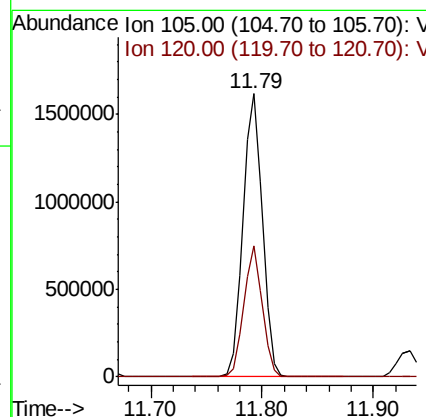
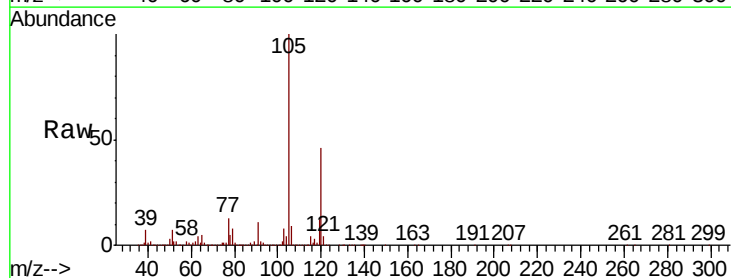
Instrument :
 MSVOA_X
 ClientSampled :
 BG3W0DL

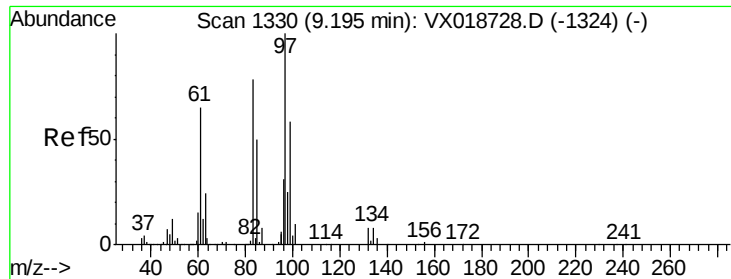
Tot Ion:105 Resp: 1312618
 Ion Ratio Lower Upper
 105 100
 120 46.9 37.2 55.8



#44
 1,2,4-Trimethylbenzene
 Concen: 51.275 ug/L
 RT: 11.79 min Scan# 1756
 Delta R.T. 0.00 min
 Lab File: VX018735.D
 Acq: 01 Oct 2020 20:53

Tgt Ion:105 Resp: 1947843
 Ion Ratio Lower Upper
 105 100
 120 43.8 36.8 55.2

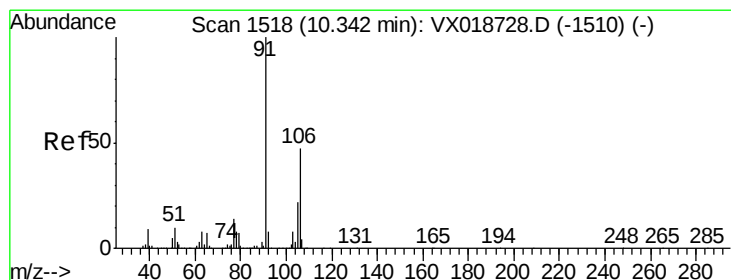
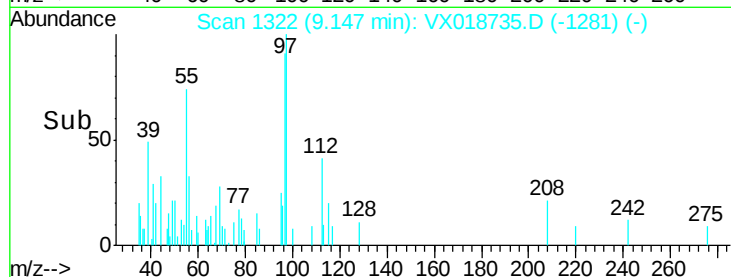
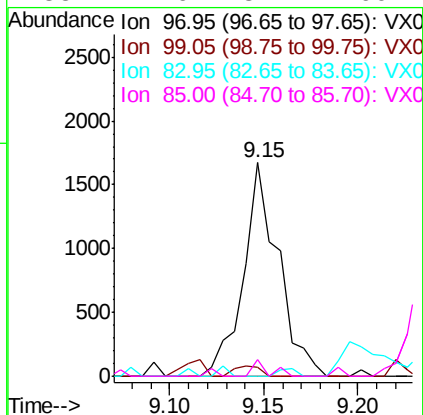
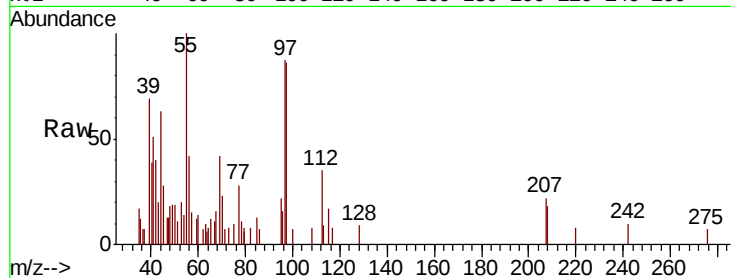




#47
 1,1,2-Trichloroethane
 Concen: 0.279 ug/L
 RT: 9.15 min Scan# 1322
 Delta R.T. -0.05 min
 Lab File: VX018735.D
 Acq: 01 Oct 2020 20:53

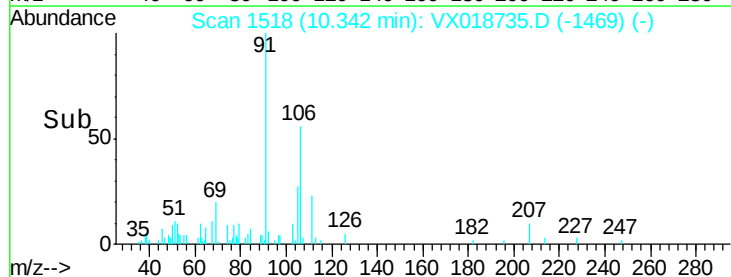
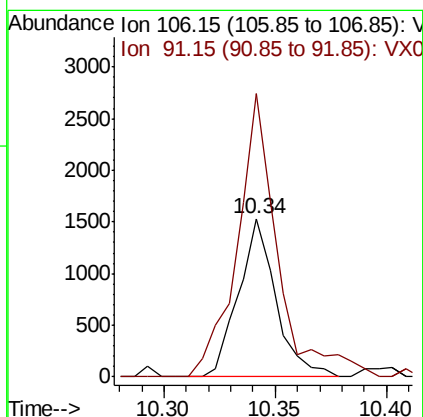
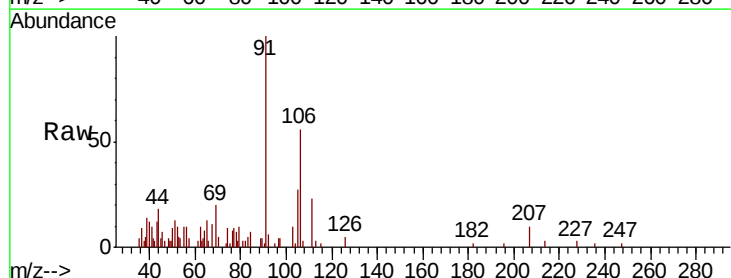
Instrument :
 MSVOA_X
 ClientSampleId :
 BG3W0DL

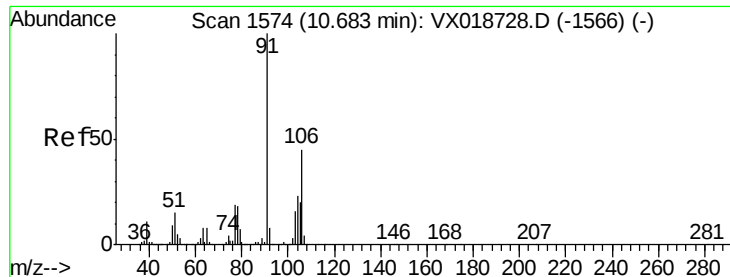
Tot Ion: 97 Resp: 2146
 Ion Ratio Lower Upper
 97 100
 99 4.0 38.9 72.2#
 83 0.0 61.9 114.9#
 85 7.6 37.2 69.2#



#55
 m,p-xylene
 Concen: 0.099 ug/L
 RT: 10.34 min Scan# 1518
 Delta R.T. 0.00 min
 Lab File: VX018735.D
 Acq: 01 Oct 2020 20:53

Tgt Ion: 106 Resp: 1799
 Ion Ratio Lower Upper
 106 100
 91 179.2 140.3 260.6





#56

o-xylene

Concen: 0.054 ug/L

RT: 10.68 min Scan# 1574

Delta R.T. 0.00 min

Lab File: VX018735.D

Acq: 01 Oct 2020 20:53

Instrument :

MSVOA_X

ClientSampleId :

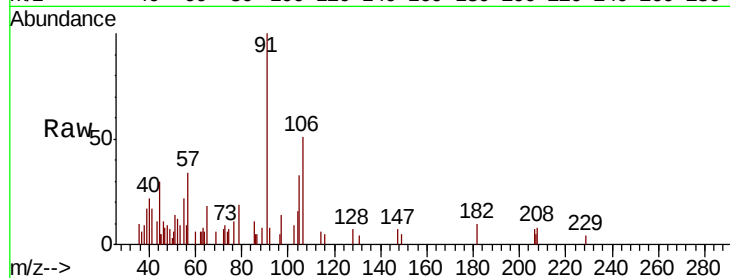
BG3W0DL

Tot Ion:106 Resp: 924

Ion Ratio Lower Upper

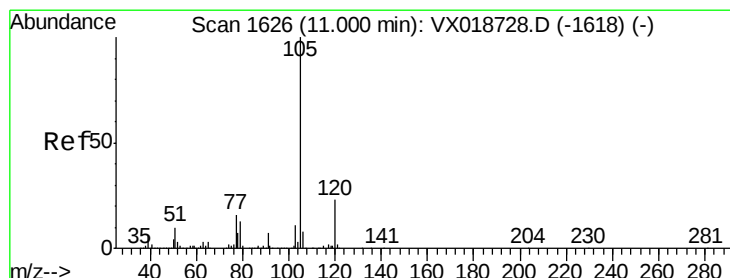
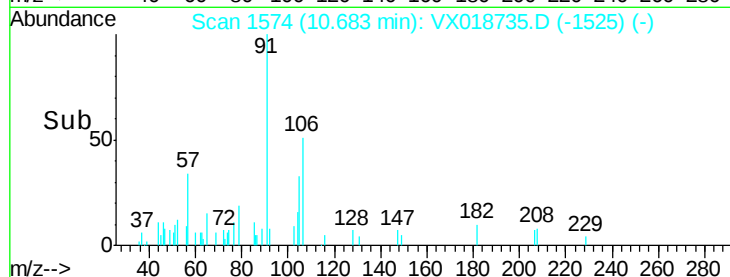
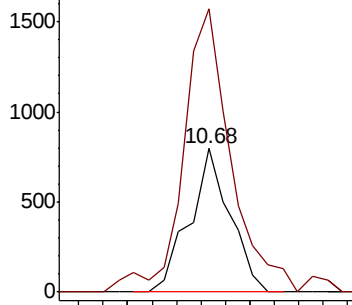
106 100

91 197.2 167.5 311.1



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VX0



#58

Isopropylbenzene

Concen: 1.346 ug/L

RT: 11.00 min Scan# 1626

Delta R.T. 0.00 min

Lab File: VX018735.D

Acq: 01 Oct 2020 20:53

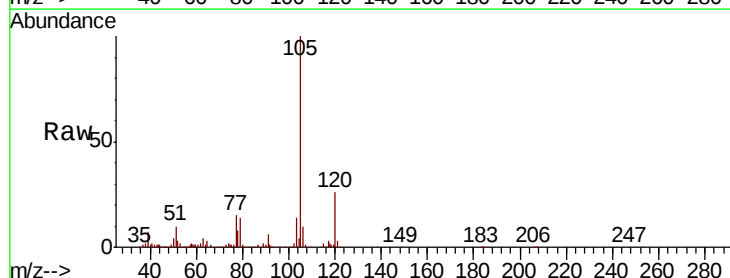
Tgt Ion:105 Resp: 61688

Ion Ratio Lower Upper

105 100

120 25.3 21.2 31.8

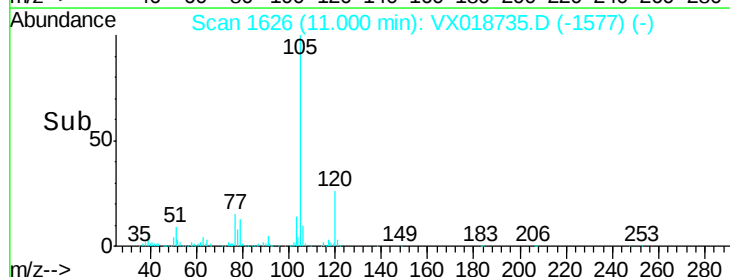
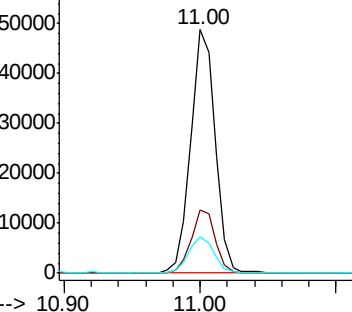
77 15.5 13.3 19.9

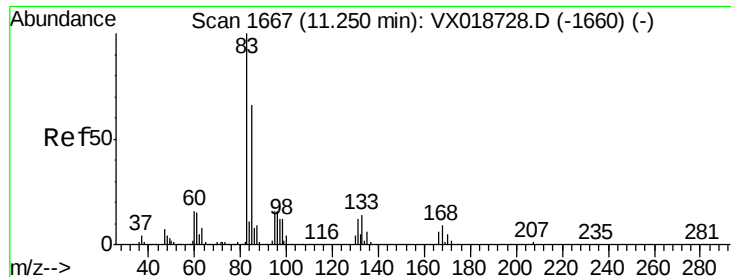


Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): VX0





#60

1,1,2,2-Tetrachloroethane

Concen: 0.152 ug/L

RT: 11.23 min Scan# 1663

Delta R.T. -0.02 min

Lab File: VX018735.D

Acq: 01 Oct 2020 20:53

Instrument :

MSVOA_X

ClientSampleID :

BG3W0DL

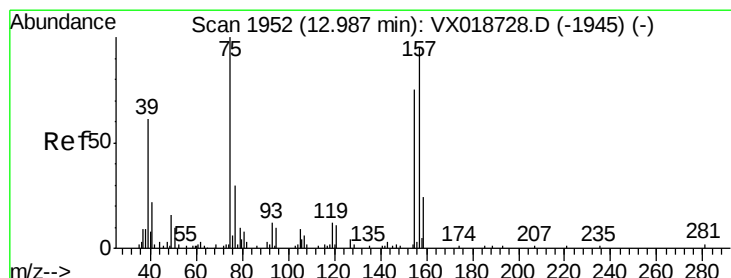
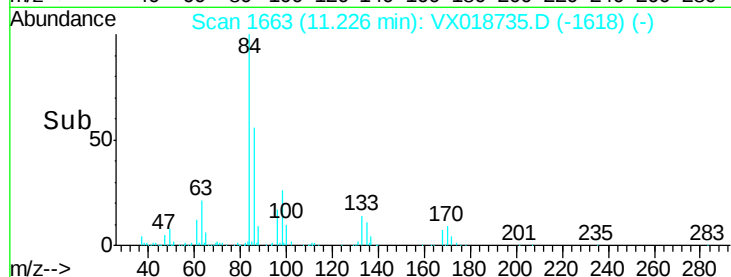
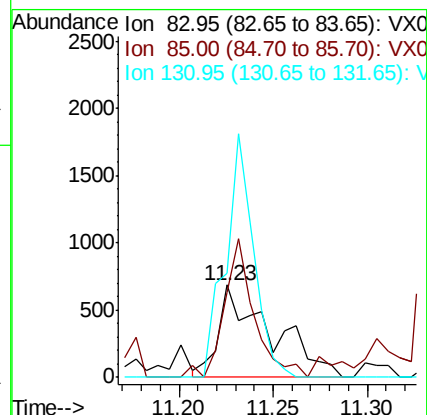
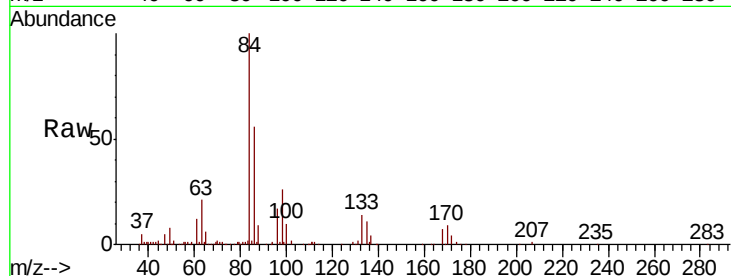
Tot Ion: 83 Resp: 1325

Ion Ratio Lower Upper

83 100

85 91.8 48.5 90.1#

131 113.0 7.8 11.6#



#67

1,2-Dibromo-3-chloropropane

Concen: 8.641 ug/L

RT: 13.00 min Scan# 1954

Delta R.T. 0.01 min

Lab File: VX018735.D

Acq: 01 Oct 2020 20:53

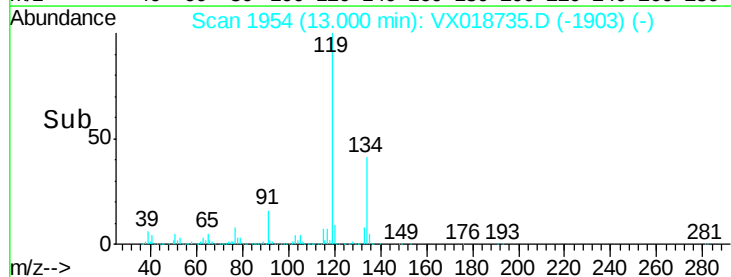
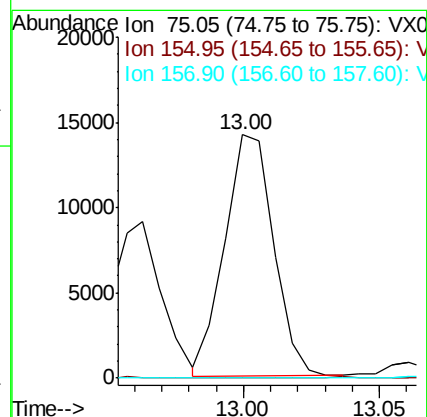
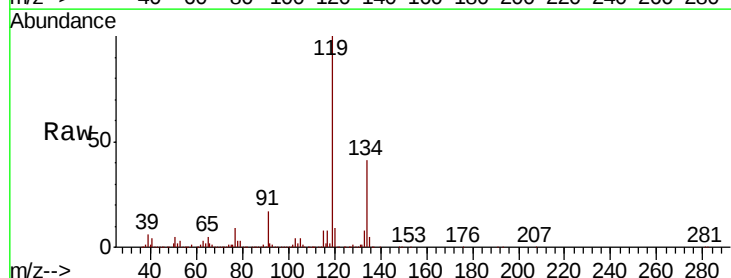
Tgt Ion: 75 Resp: 17695

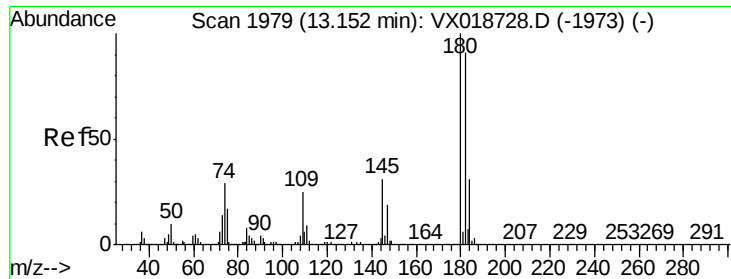
Ion Ratio Lower Upper

75 100

155 0.0 54.6 81.8#

157 0.0 73.5 110.3#

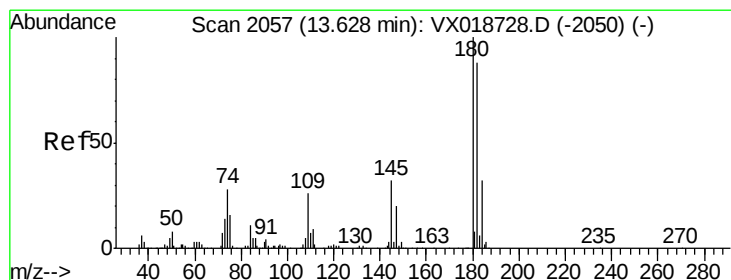
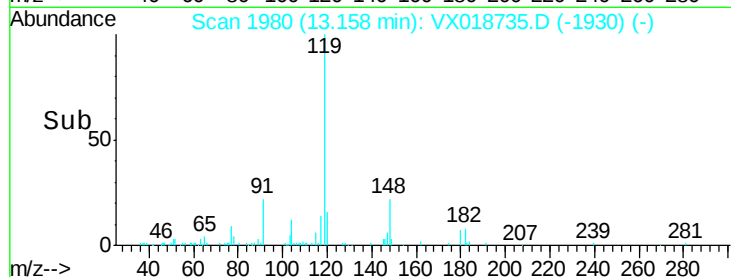
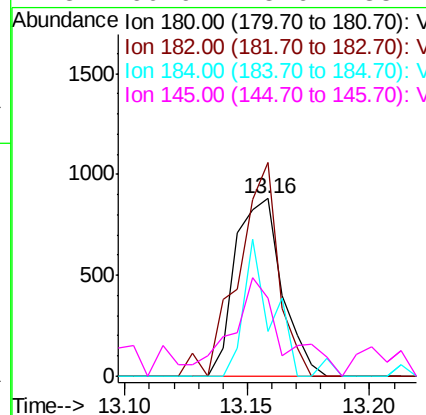
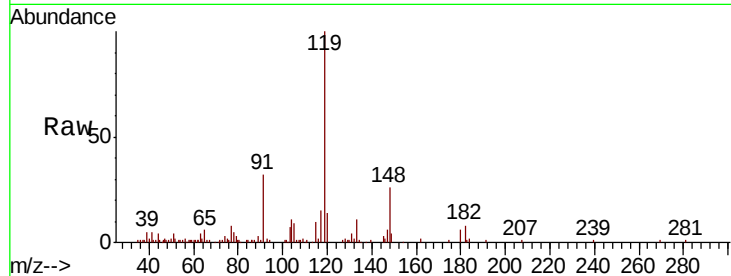




#68
 1,3,5-Trichlorobenzene
 Concen: 0.061 ug/L
 RT: 13.16 min Scan# 1980
 Delta R.T. 0.01 min
 Lab File: VX018735.D
 Acq: 01 Oct 2020 20:53

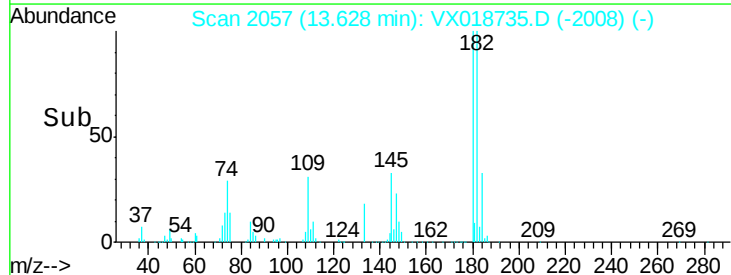
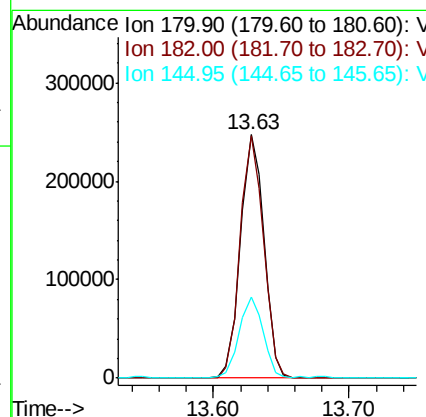
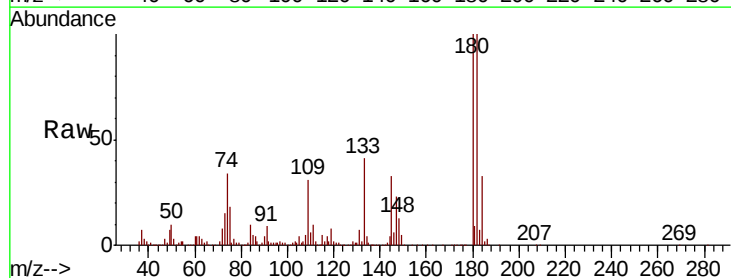
Instrument :
 MSVOA_X
 ClientSampleID :
 BG3W0DL

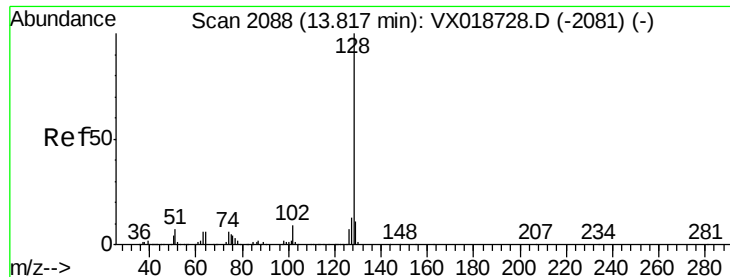
Tot Ion:180 Resp: 1175
 Ion Ratio Lower Upper
 180 100
 182 103.8 72.4 108.6
 184 44.3 25.3 37.9#
 145 60.9 25.6 38.4#



#69
 1,2,4-trichlorobenzene
 Concen: 18.807 ug/L
 RT: 13.63 min Scan# 2057
 Delta R.T. 0.00 min
 Lab File: VX018735.D
 Acq: 01 Oct 2020 20:53

Tgt Ion:180 Resp: 299218
 Ion Ratio Lower Upper
 180 100
 182 98.7 74.6 112.0
 145 33.6 25.0 37.6

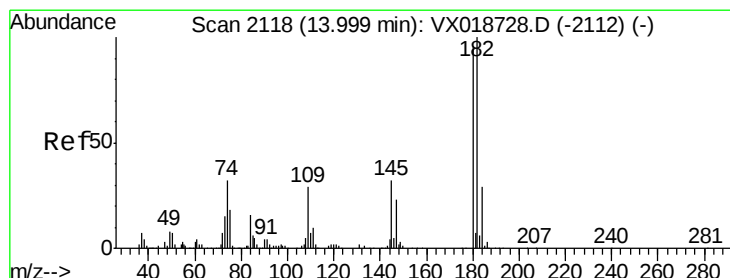
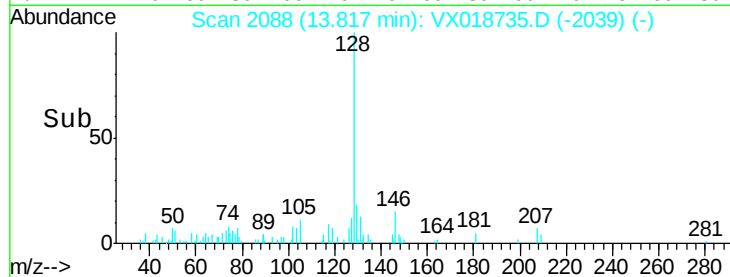
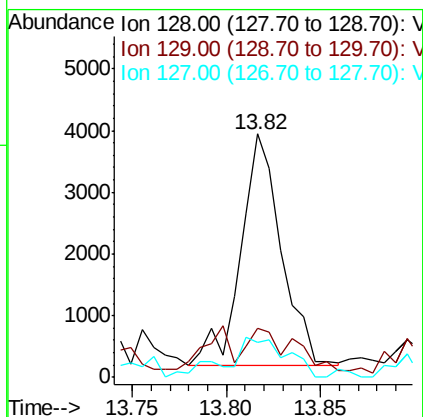
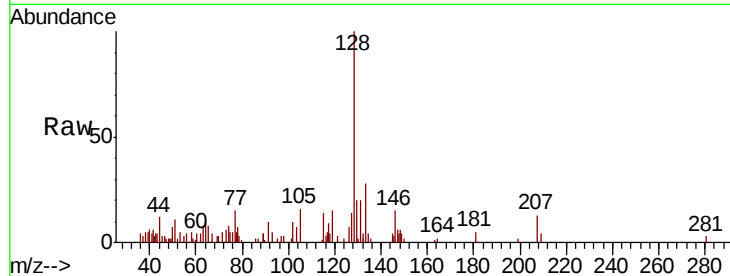




#70
Naphthalene
Concen: 0.209 ug/L
RT: 13.82 min Scan# 2088
Delta R.T. 0.00 min
Lab File: VX018735.D
Acq: 01 Oct 2020 20:53

Instrument :
MSVOA_X
ClientSampled :
BG3W0DL

Tot Ion:128 Resp: 5630
Ion Ratio Lower Upper
128 100
129 20.4 8.8 13.2#
127 23.7 10.7 16.1#



#71
1,2,3-Trichlorobenzene
Concen: 4.637 ug/L
RT: 14.01 min Scan# 2119
Delta R.T. 0.01 min
Lab File: VX018735.D
Acq: 01 Oct 2020 20:53

Tgt Ion:180 Resp: 66666
Ion Ratio Lower Upper
180 100
182 102.9 77.7 116.5
145 37.0 28.6 42.8

