

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX081820\
 Data File : VX017957.D
 Acq On : 18 Aug 2020 12:20
 Operator : JC/SP
 Sample : L3697-03
 Misc : 25.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BG0N0

Quant Time: Aug 19 01:31:21 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\SOMXTR080720WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Aug 19 01:29:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.83	114	257308	5.00	ug/L	0.00
28) Chlorobenzene-d5	10.10	117	245311	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	12.06	152	122991	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	66182	3.72	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	74.40%
7) Chloroethane-d5	1.69	69	63831	4.52	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	90.40%
11) 1,1-Dichloroethene-d2	2.34	63	106462	2.91	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	58.20%#
20) 2-Butanone-d5	4.53	46	288771	61.16	ug/L	-0.01
Spiked Amount	50.000	Range	40 - 130	Recovery	=	122.32%
24) Chloroform-d	5.14	84	182166	5.05	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	101.00%
26) 1,2-Dichloroethane-d4	6.03	65	104195	5.26	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	105.20%
32) Benzene-d6	6.04	84	309360	4.59	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	91.80%
36) 1,2-Dichloropropane-d6	7.37	67	108603	5.22	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	104.40%
41) Toluene-d8	8.70	98	241369	3.76	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	75.20%
45) trans-1,3-Dichloropropene-	8.99	79	38603	4.28	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	85.60%
48) 2-Hexanone-d5	9.43	63	203347	54.27	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	108.54%
59) 1,1,2,2-Tetrachloroethane-	11.23	84	85125	5.38	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	107.60%
65) 1,2-Dichlorobenzene-d4	12.36	152	124144	5.24	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	104.80%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chloromethane	1.31	50	3568	0.146	ug/L #	64
8) Chloroethane	1.72	64	17745	1.309	ug/L	98
13) Acetone	2.42	43	6550	1.899	ug/L	93
14) Carbon disulfide	2.55	76	3671	0.052	ug/L	99
16) Methylene chloride	2.84	84	2892	0.106	ug/L	78
17) Methyl tert-butyl Ether	3.17	73	32251	0.611	ug/L #	1
18) trans-1,2-Dichloroethene	3.15	96	1637	0.073	ug/L	88
22) cis-1,2-Dichloroethene	4.57	96	961	0.041	ug/L #	34
25) Chloroform	5.18	83	13704	0.319	ug/L	96
33) Benzene	6.11	78	897800	10.338	ug/L	100
37) 1,2-Dichloropropane	7.37	63	12679	0.581	ug/L #	90
42) Toluene	8.76	91	20175	0.214	ug/L	95
43) 1,3,5-Trimethylbenzene	11.49	105	11740	0.136	ug/L	96
44) 1,2,4-Trimethylbenzene	11.79	105	317756	3.626	ug/L	99
53) Chlorobenzene	10.12	112	306658	4.997	ug/L	96
54) Ethylbenzene	10.24	91	171205	1.664	ug/L	98
55) m,p-xylene	10.34	106	32548	0.829	ug/L	91

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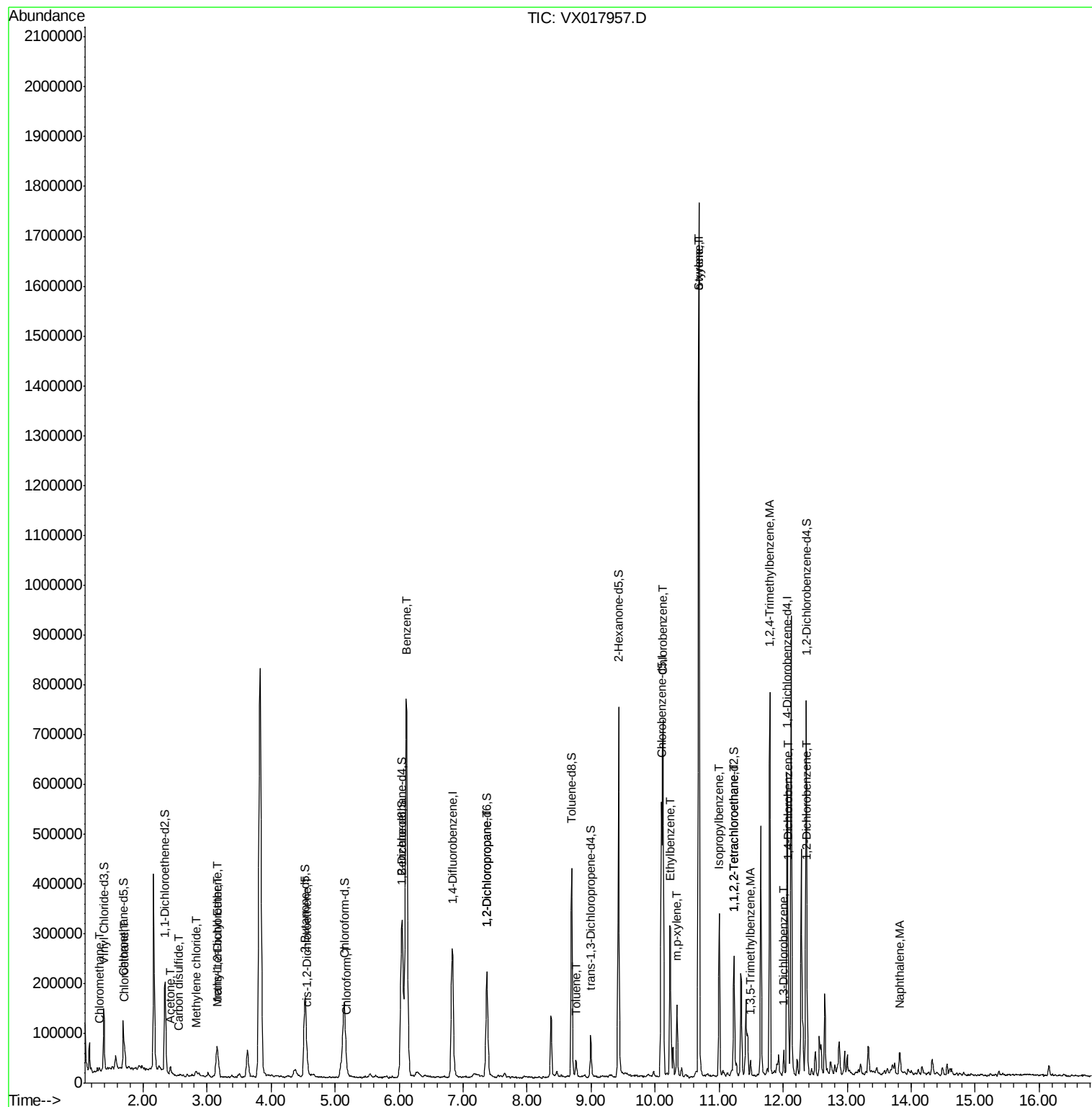
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
56) o-xylene	10.68	106	356368	9.356	ug/L	96
57) Styrene	10.68	104	22691	0.352	ug/L #	1
58) Isopropylbenzene	11.00	105	158891	1.559	ug/L	99
60) 1,1,2,2-Tetrachloroethane	11.24	83	1744	0.097	ug/L #	31
63) 1,3-Dichlorobenzene	12.01	146	4916	0.103	ug/L	93
64) 1,4-Dichlorobenzene	12.08	146	41906	0.879	ug/L	100
66) 1,2-Dichlorobenzene	12.38	146	29393	0.661	ug/L	96
70) Naphthalene	13.82	128	18565	0.323	ug/L #	91

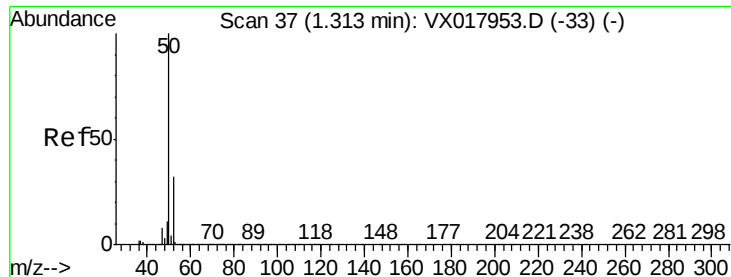
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#3

Chloromethane

Concen: 0.146 ug/L

RT: 1.31 min Scan# 37

Delta R.T. -0.00 min

Lab File: VX017957.D

Acq: 18 Aug 2020 12:20

Instrument :

MSVOA_X

ClientSampled :

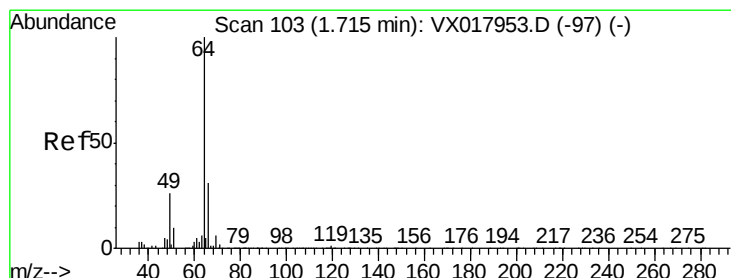
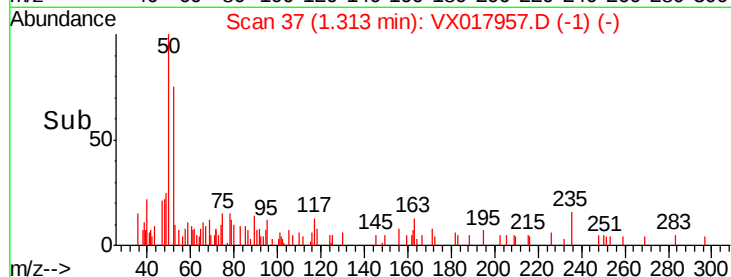
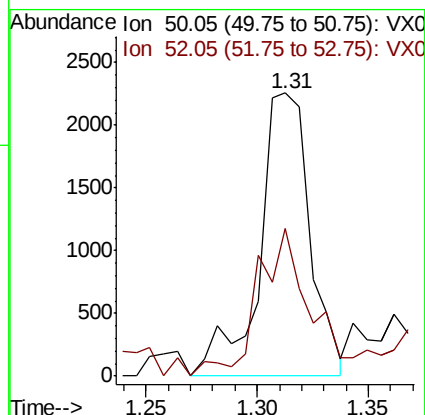
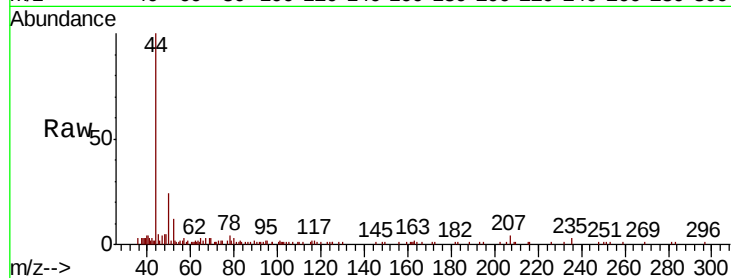
BG0N0

Tot Ion: 50 Resp: 3568

Ion Ratio Lower Upper

50 100

52 52.3 22.5 41.9#



#8

Chloroethane

Concen: 1.309 ug/L

RT: 1.72 min Scan# 103

Delta R.T. -0.00 min

Lab File: VX017957.D

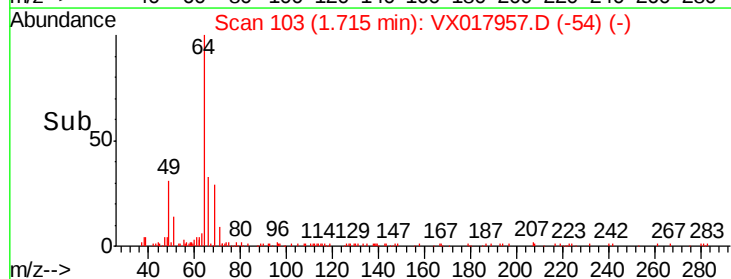
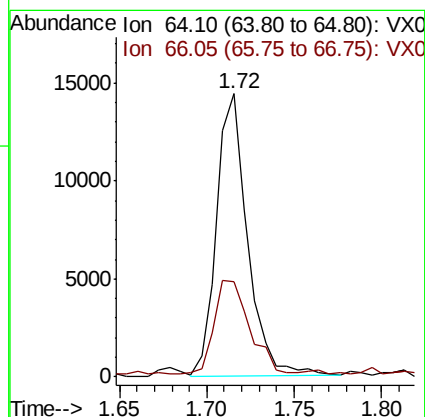
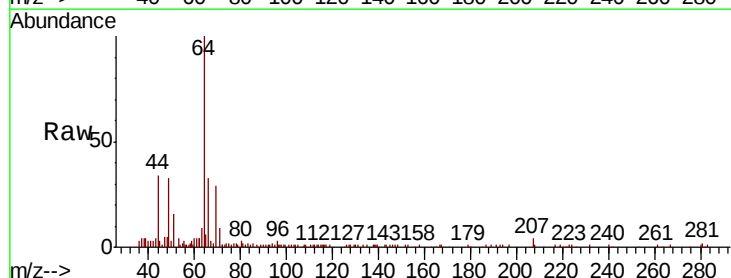
Acq: 18 Aug 2020 12:20

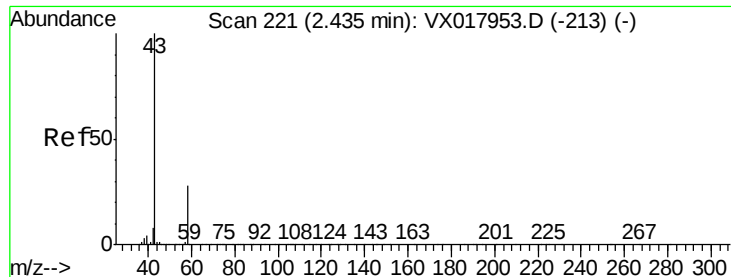
Tgt Ion: 64 Resp: 17745

Ion Ratio Lower Upper

64 100

66 33.5 22.6 42.0





#13

Acetone

Concen: 1.899 ug/L

RT: 2.42 min Scan# 218

Delta R.T. -0.02 min

Lab File: VX017957.D

Acq: 18 Aug 2020 12:20

Instrument :

MSVOA_X

ClientSampleId :

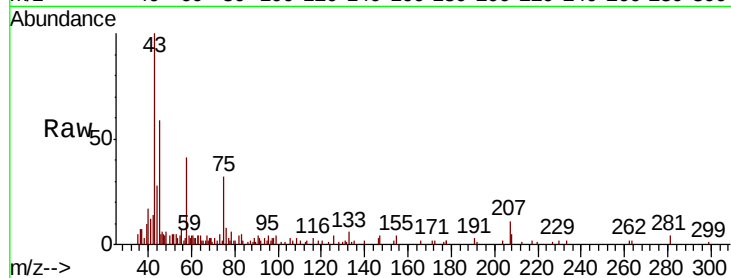
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Tot Ion: 43 Resp: 6550

Ion Ratio Lower Upper

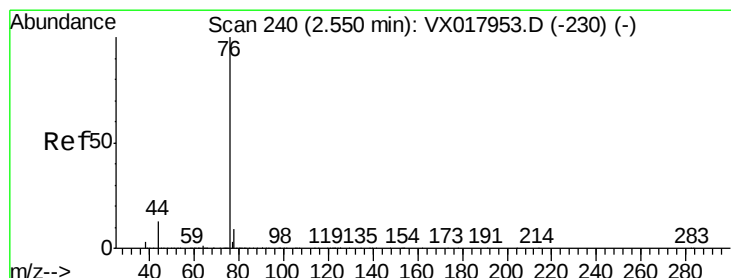
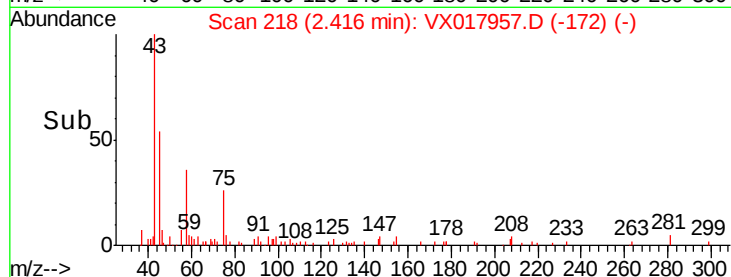
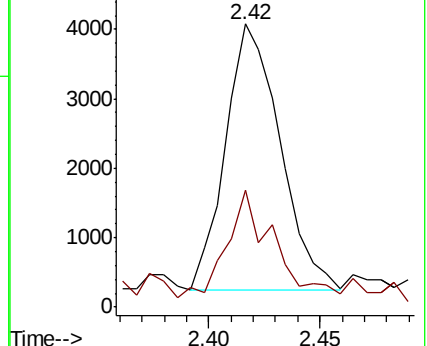
43 100

58 34.4 0.0 60.8



Abundance Ion 43.05 (42.75 to 43.75): VX0

Ion 58.05 (57.75 to 58.75): VX0



#14

Carbon disulfide

Concen: 0.052 ug/L

RT: 2.55 min Scan# 240

Delta R.T. -0.00 min

Lab File: VX017957.D

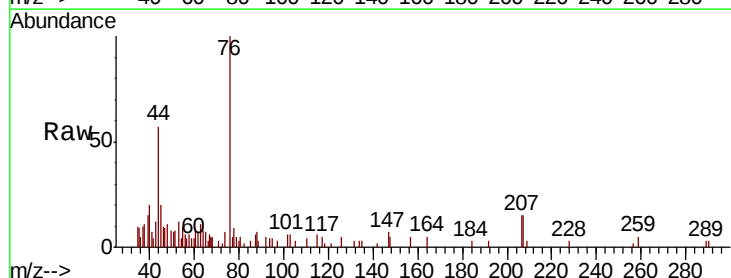
Acq: 18 Aug 2020 12:20

Tgt Ion: 76 Resp: 3671

Ion Ratio Lower Upper

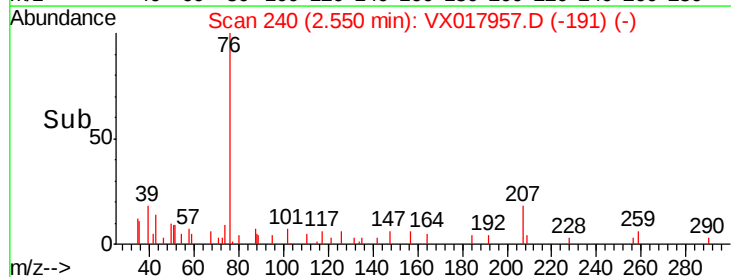
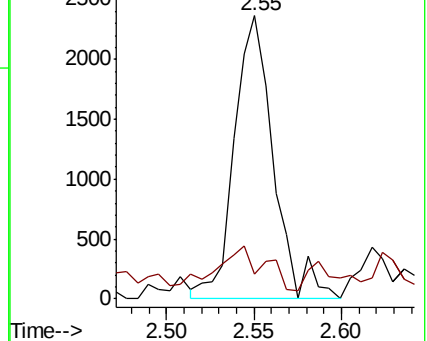
76 100

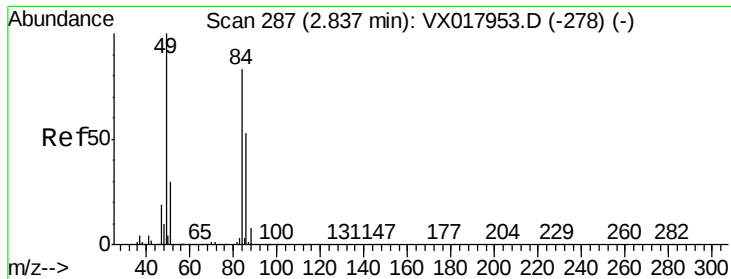
78 8.9 7.0 10.4



Abundance Ion 76.05 (75.75 to 76.75): VX0

Ion 78.00 (77.70 to 78.70): VX0

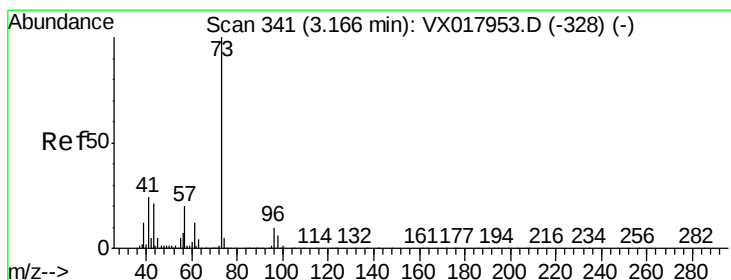
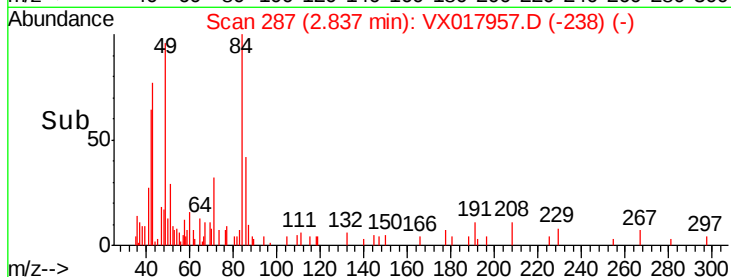
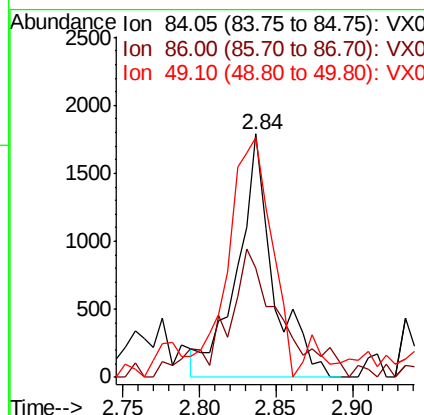
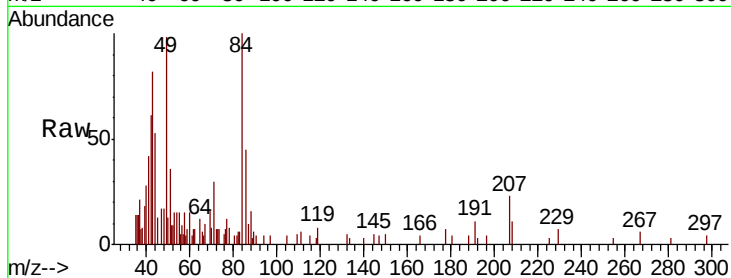




#16
Methvlene chloride
Concen: 0.106 ug/L
RT: 2.84 min Scan# 287
Delta R.T. -0.00 min
Lab File: VX017957.D
Acq: 18 Aug 2020 12:20

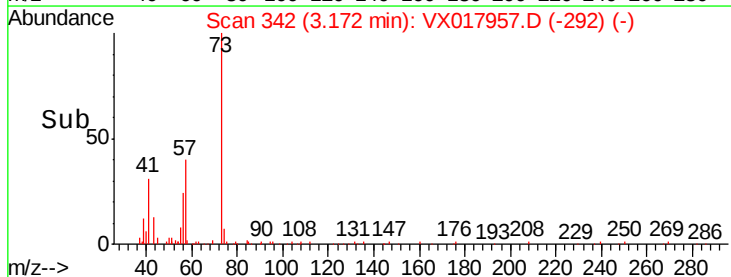
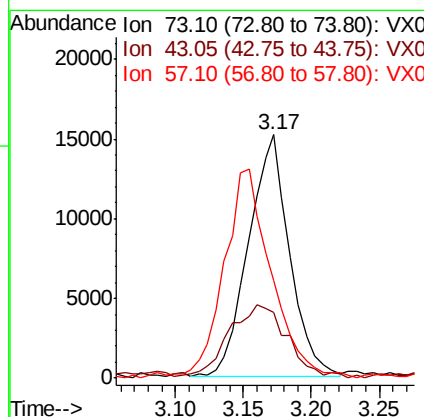
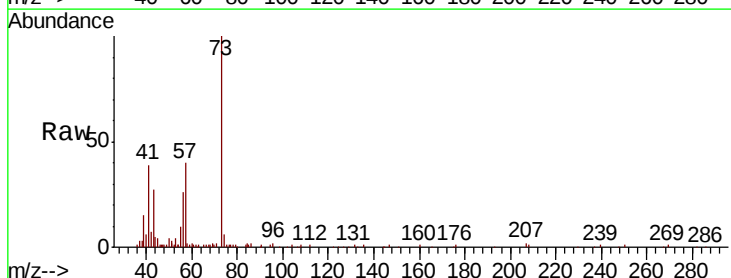
Instrument :
MSVOA_X
ClientSampleId :
BG0N0

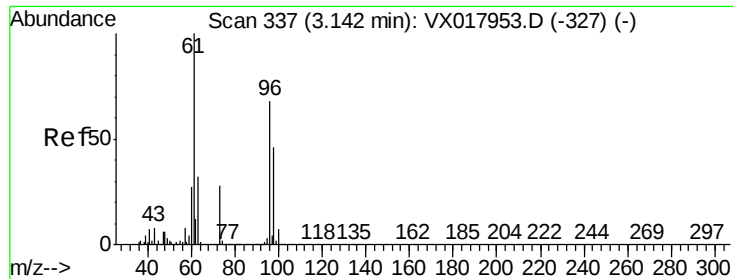
Tot Ion: 84 Resp: 2892
Ion Ratio Lower Upper
84 100
86 44.7 43.0 80.0
49 98.4 86.9 161.3



#17
Methyl tert-butyl Ether
Concen: 0.611 ug/L
RT: 3.17 min Scan# 342
Delta R.T. 0.01 min
Lab File: VX017957.D
Acq: 18 Aug 2020 12:20

Tgt Ion: 73 Resp: 32251
Ion Ratio Lower Upper
73 100
43 43.1 17.7 26.5#
57 98.3 17.0 25.6#

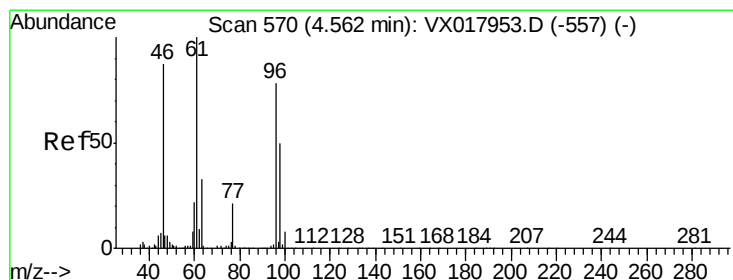
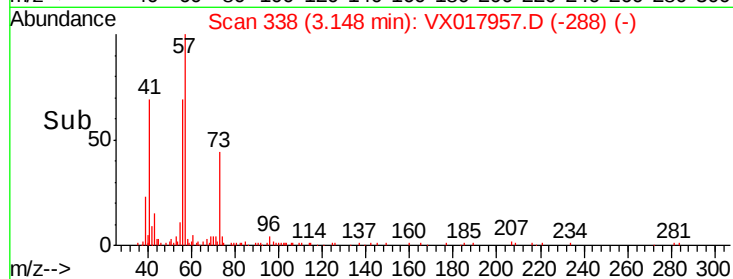
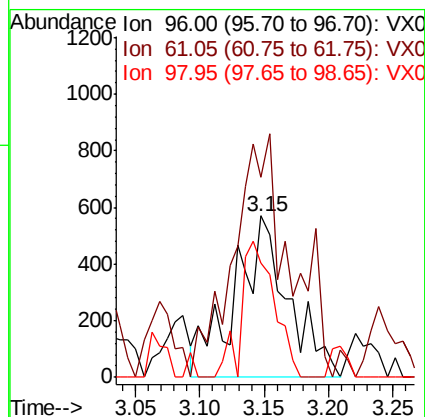
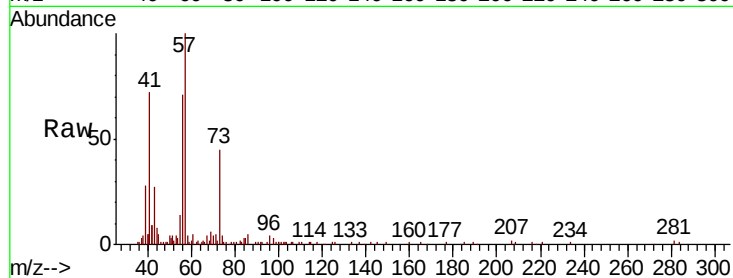




#18
trans-1,2-Dichloroethene
Concen: 0.073 ug/L
RT: 3.15 min Scan# 338
Delta R.T. 0.01 min
Lab File: VX017957.D
Acq: 18 Aug 2020 12:20

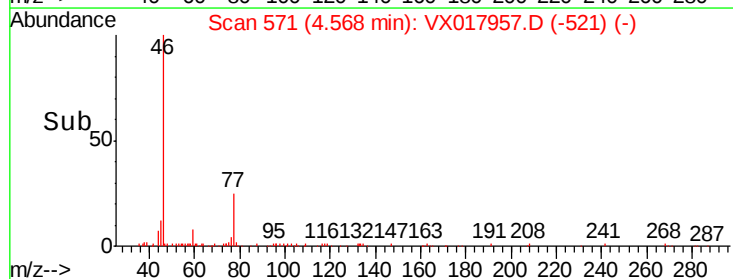
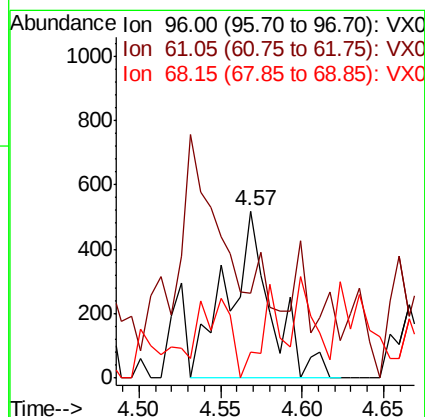
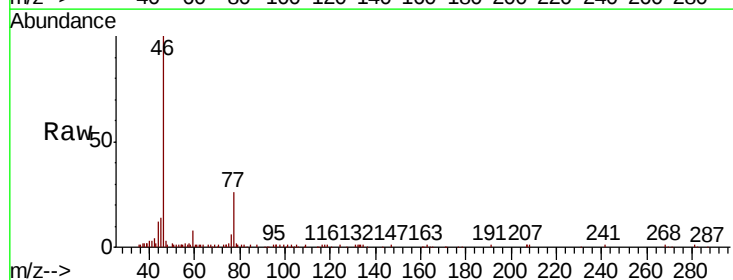
Instrument :
MSVOA_X
ClientSampleId :
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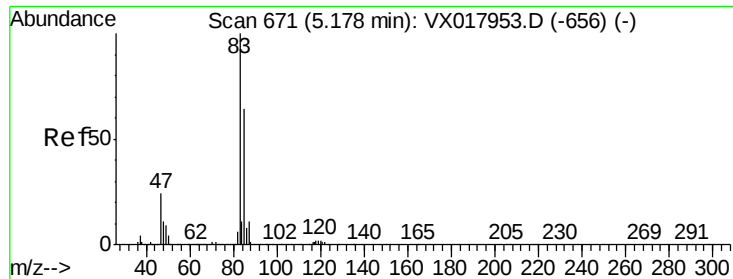
Tot Ion: 96 Resp: 1637
Ion Ratio Lower Upper
96 100
61 124.3 98.4 182.8
98 70.8 44.9 83.5



#22
cis-1,2-Dichloroethene
Concen: 0.041 ug/L
RT: 4.57 min Scan# 571
Delta R.T. 0.01 min
Lab File: VX017957.D
Acq: 18 Aug 2020 12:20

Tgt Ion: 96 Resp: 961
Ion Ratio Lower Upper
96 100
61 51.0 88.8 165.0#
68 15.3 0.2 0.4#





#25

Chloroform

Concen: 0.319 ug/L

RT: 5.18 min Scan# 672

Delta R.T. 0.01 min

Lab File: VX017957.D

Acq: 18 Aug 2020 12:20

Instrument :

MSVOA_X

ClientSampleId :

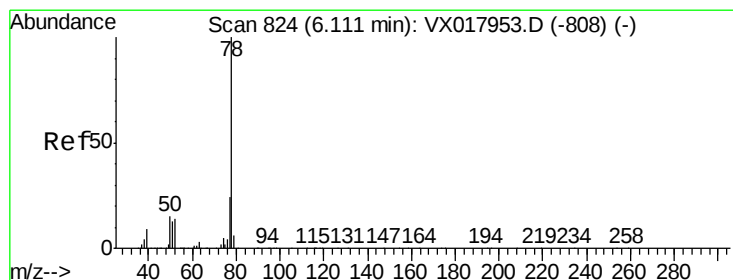
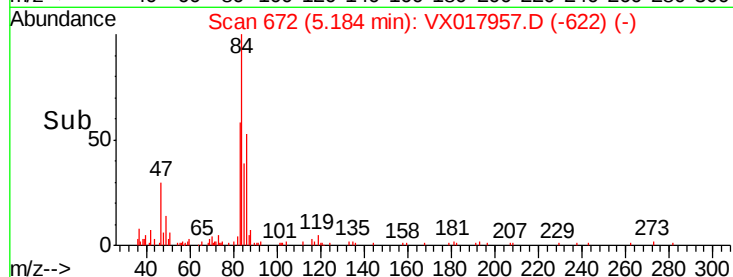
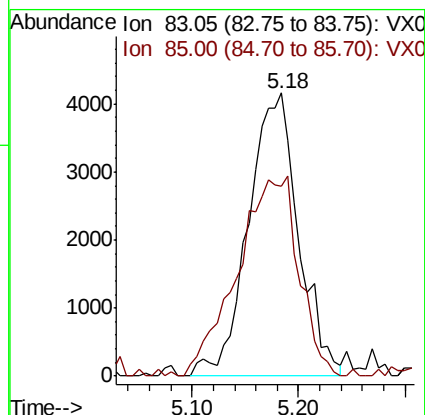
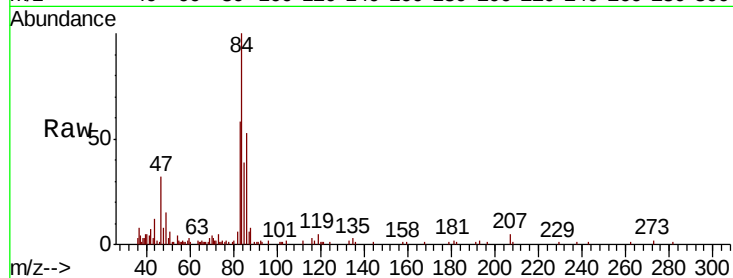
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Tot Ion: 83 Resp: 13704

Ion Ratio Lower Upper

83 100

85 67.3 44.7 83.1



#33

Benzene

Concen: 10.338 ug/L

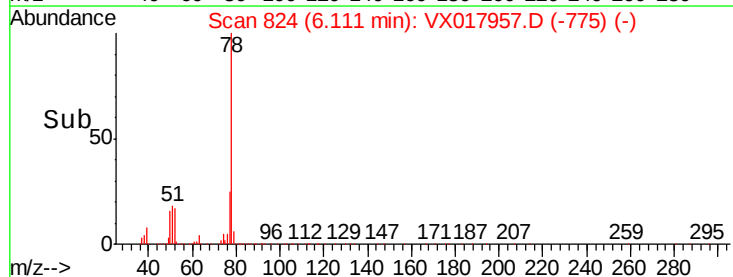
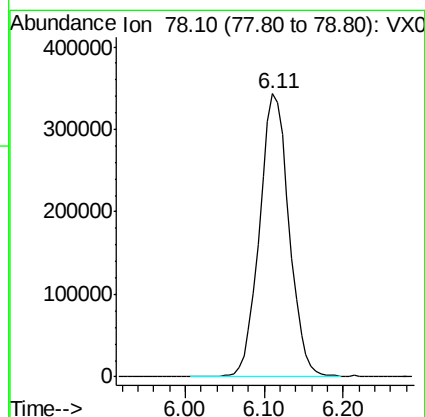
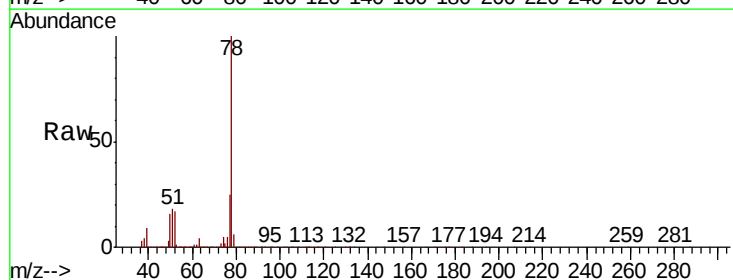
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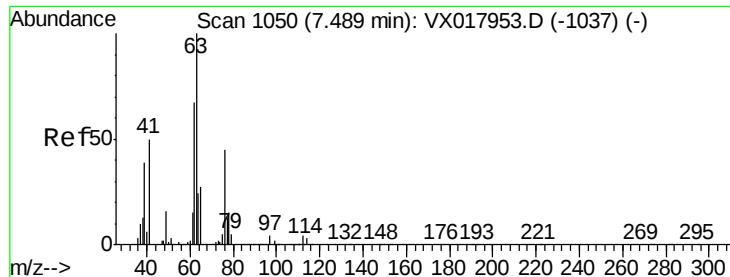
Delta R.T. -0.00 min

Lab File: VX017957.D

Acq: 18 Aug 2020 12:20

Tgt Ion: 78 Resp: 897800

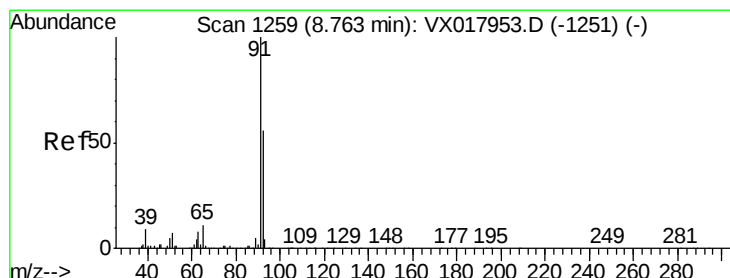
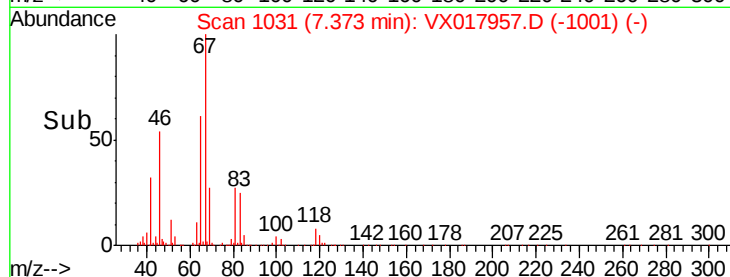
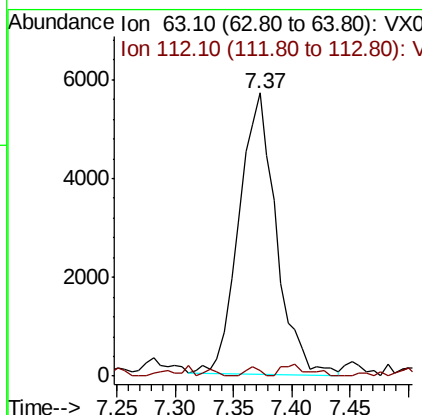
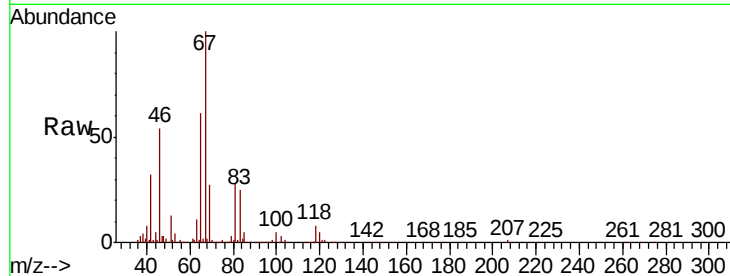




#37
 1,2-Dichloropropane
 Concen: 0.581 ug/L
 RT: 7.37 min Scan# 1031
 Delta R.T. -0.12 min
 Lab File: VX017957.D
 Acq: 18 Aug 2020 12:20

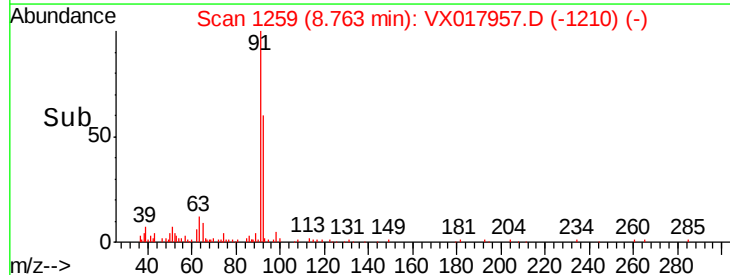
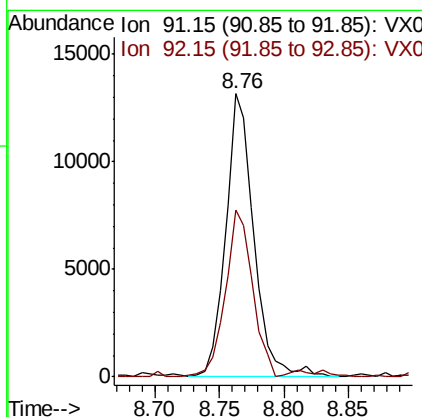
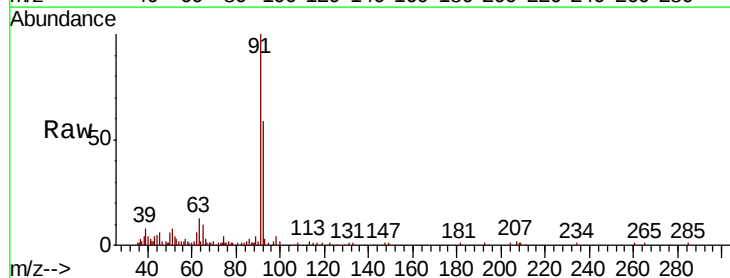
Instrument :
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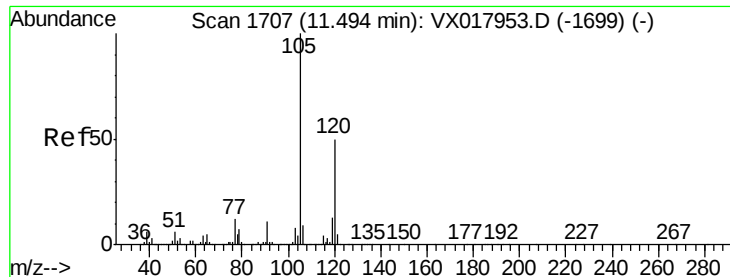
Tot Ion: 63 Resp: 12679
 Ion Ratio Lower Upper
 63 100
 112 1.2 3.6 5.4#



#42
 Toluene
 Concen: 0.214 ug/L
 RT: 8.76 min Scan# 1259
 Delta R.T. -0.00 min
 Lab File: VX017957.D
 Acq: 18 Aug 2020 12:20

Tgt Ion: 91 Resp: 20175
 Ion Ratio Lower Upper
 91 100
 92 59.1 38.8 72.0





#43

1,3,5-Trimethylbenzene

Concen: 0.136 ug/L

RT: 11.49 min Scan# 1706

Delta R.T. -0.01 min

Lab File: VX017957.D

Acq: 18 Aug 2020 12:20

Instrument :

MSVOA_X

ClientSampleId :

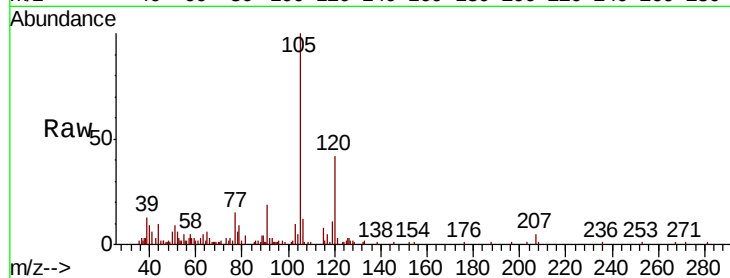
BG0N0

Tot Ion:105 Resp: 11740

Ion Ratio Lower Upper

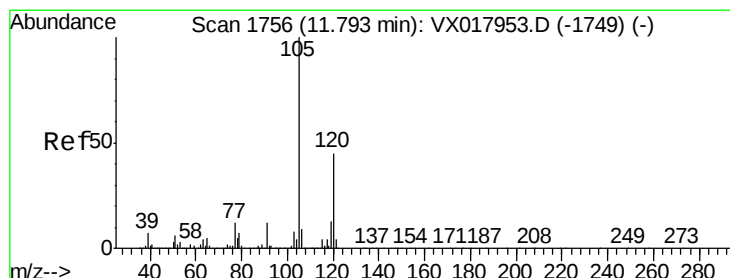
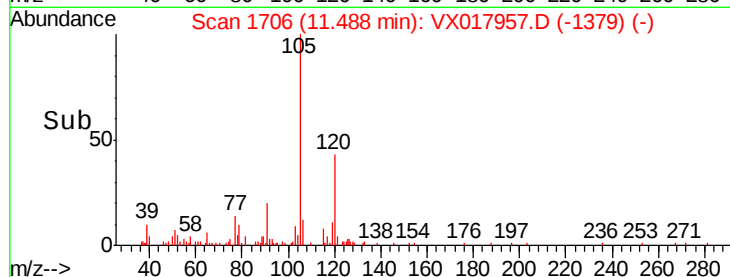
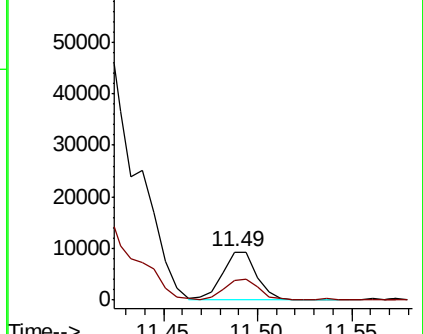
105 100

120 45.1 38.1 57.1



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: 3.626 ug/L

RT: 11.79 min Scan# 1756

Delta R.T. -0.00 min

Lab File: VX017957.D

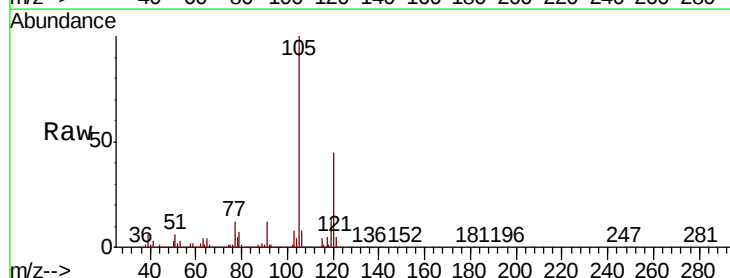
Acq: 18 Aug 2020 12:20

Tgt Ion:105 Resp: 317756

Ion Ratio Lower Upper

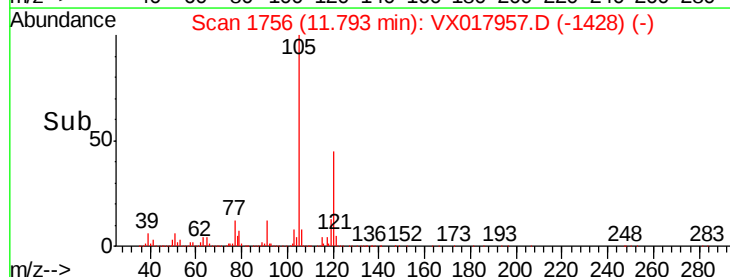
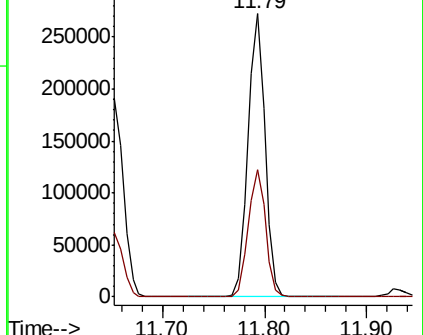
105 100

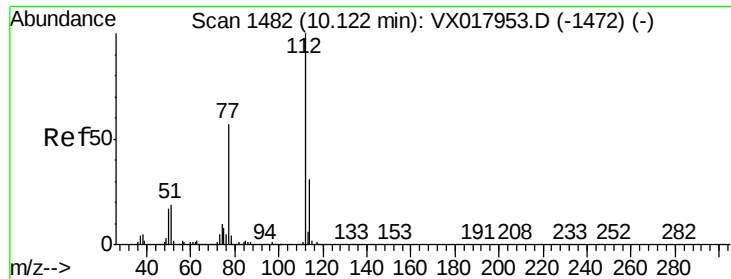
120 45.4 35.8 53.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#53

Chlorobenzene

Concen: 4.997 ug/L

RT: 10.12 min Scan# 1482

Delta R.T. -0.00 min

Lab File: VX017957.D

Acq: 18 Aug 2020 12:20

Instrument :

MSVOA_X

ClientSampleId :

BG0N0

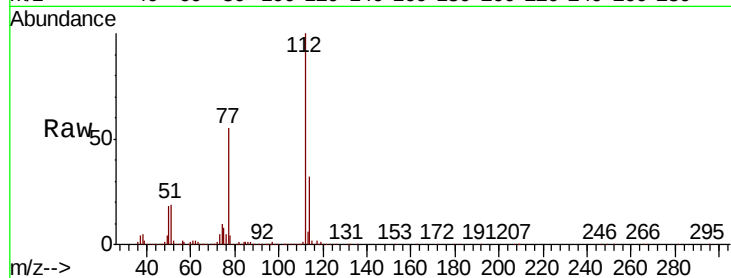
Tot Ion: 112 Resp: 306658

Ion Ratio Lower Upper

112 100

114 32.0 23.5 43.7

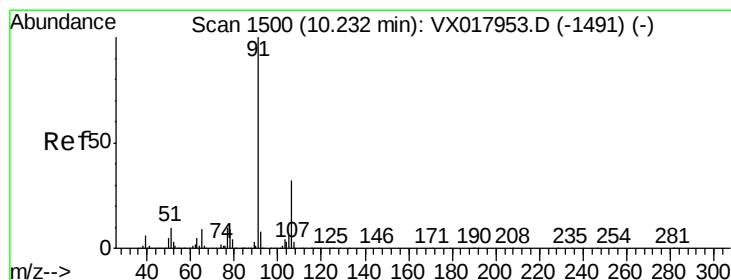
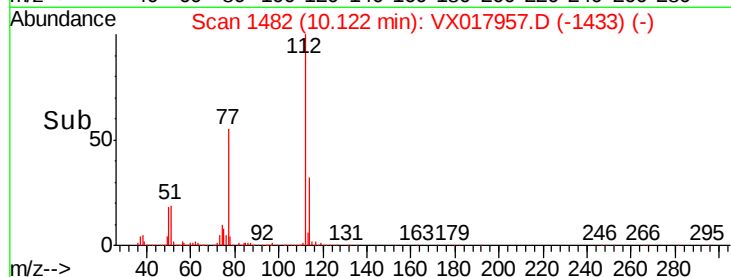
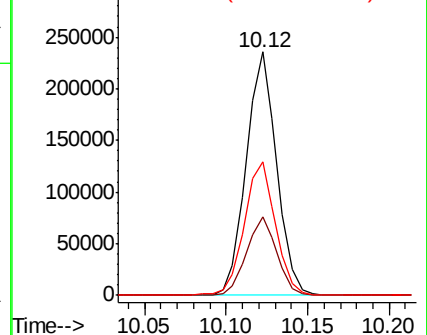
77 55.0 46.7 70.1



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: 1.664 ug/L

RT: 10.24 min Scan# 1501

Delta R.T. 0.01 min

Lab File: VX017957.D

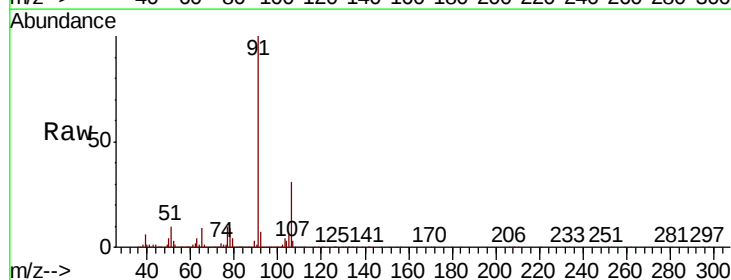
Acq: 18 Aug 2020 12:20

Tgt Ion: 91 Resp: 171205

Ion Ratio Lower Upper

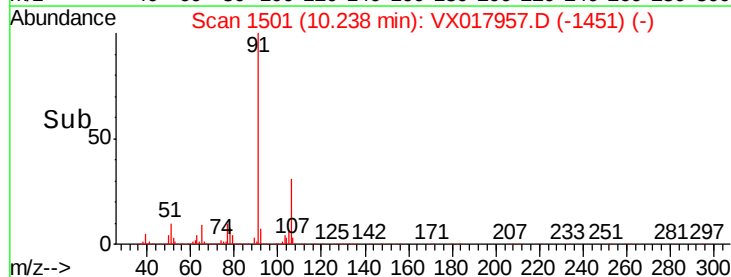
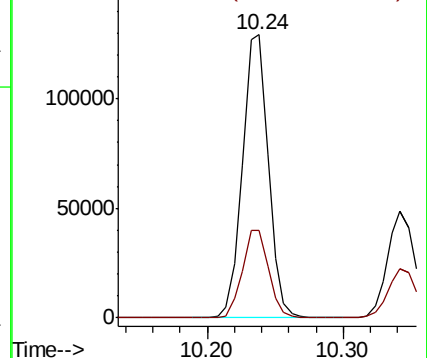
91 100

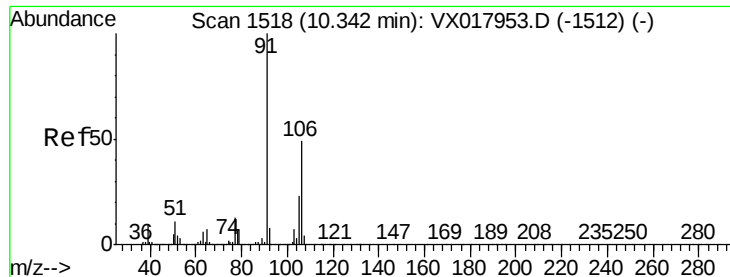
106 31.0 22.5 41.9



Abundance Ion 91.15 (90.85 to 91.85): VX0

Ion 106.15 (105.85 to 106.85): V





#55

m,p-xylene

Concen: 0.829 ug/L

RT: 10.34 min Scan# 1518

Delta R.T. -0.00 min

Lab File: VX017957.D

Acq: 18 Aug 2020 12:20

Instrument :

MSVOA_X

ClientSampleId :

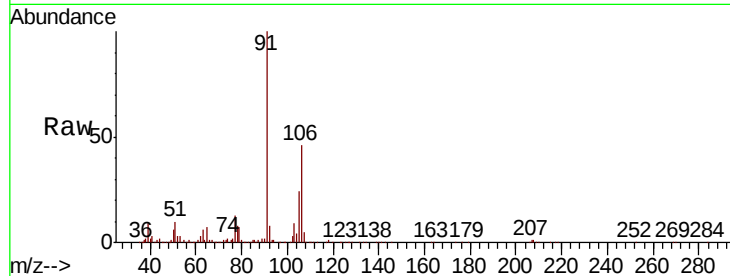
BG0N0

Tot Ion:106 Resp: 32548

Ion Ratio Lower Upper

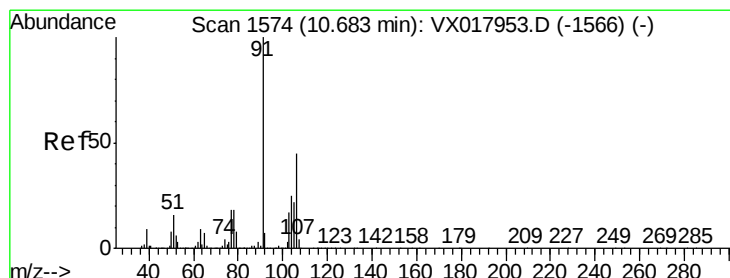
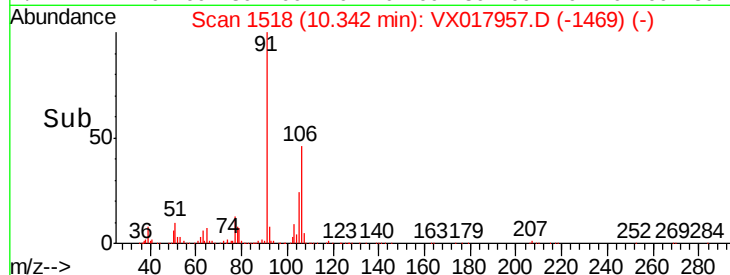
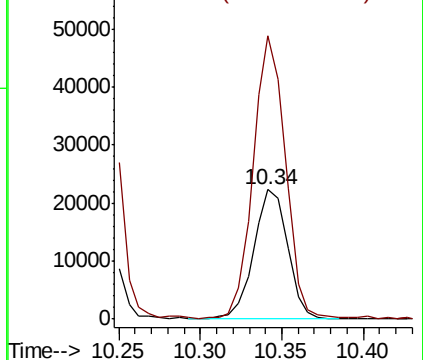
106 100

91 218.8 143.3 266.1



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VX0



#56

o-xylene

Concen: 9.356 ug/L

RT: 10.68 min Scan# 1574

Delta R.T. -0.00 min

Lab File: VX017957.D

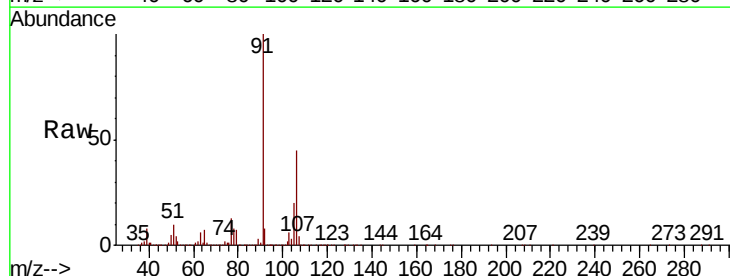
Acq: 18 Aug 2020 12:20

Tgt Ion:106 Resp: 356368

Ion Ratio Lower Upper

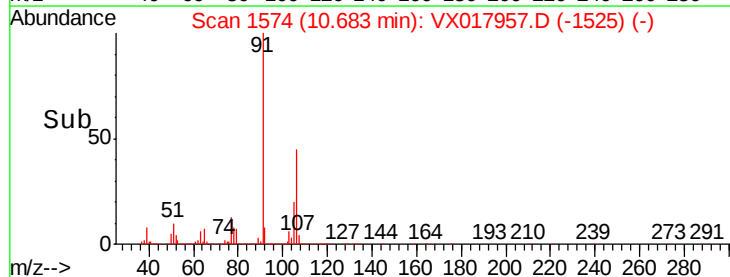
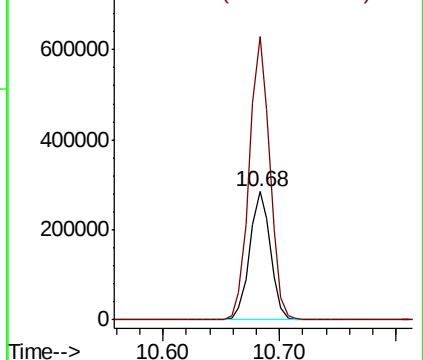
106 100

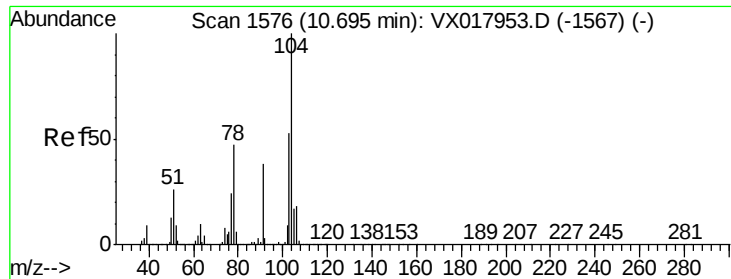
91 220.6 149.8 278.2



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VX0





#57

Stvrene

Concen: 0.352 ug/L

RT: 10.68 min Scan# 1574

Delta R.T. -0.01 min

Lab File: VX017957.D

Acq: 18 Aug 2020 12:20

Instrument :

MSVOA_X

ClientSampled :

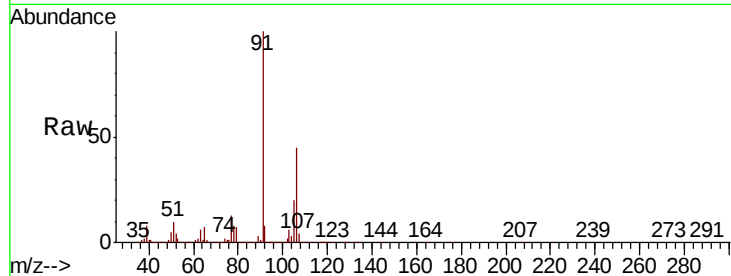
BG0N0

Tot Ion:104 Resp: 22691

Ion Ratio Lower Upper

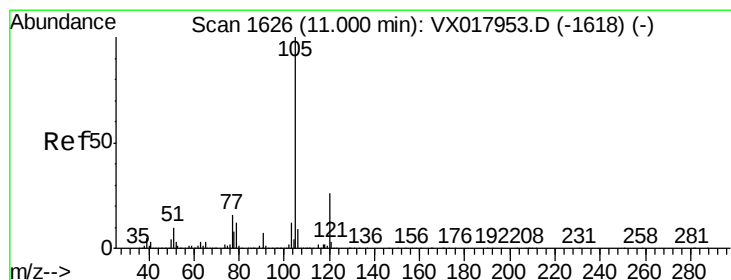
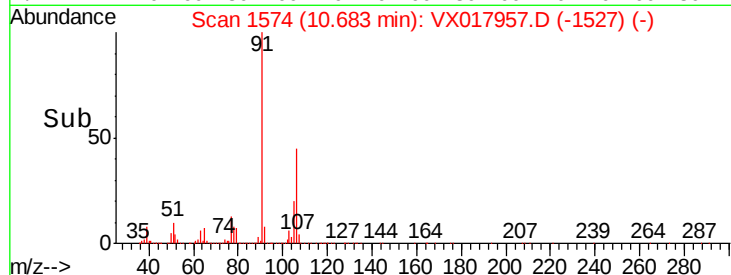
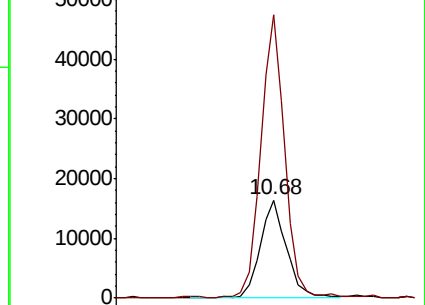
104 100

78 288.5 33.7 62.5#



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VX0



#58

Isopropylbenzene

Concen: 1.559 ug/L

RT: 11.00 min Scan# 1626

Delta R.T. -0.00 min

Lab File: VX017957.D

Acq: 18 Aug 2020 12:20

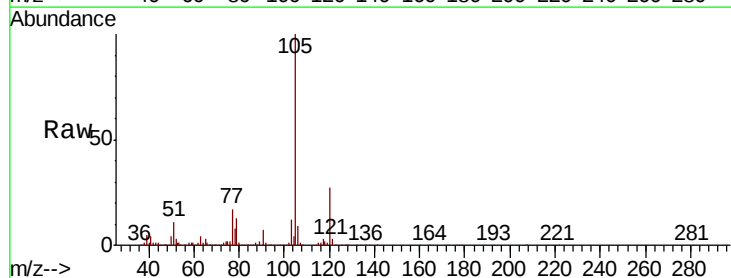
Tgt Ion:105 Resp: 158891

Ion Ratio Lower Upper

105 100

120 26.7 21.8 32.6

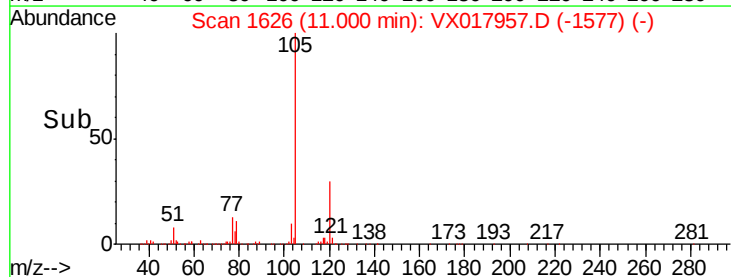
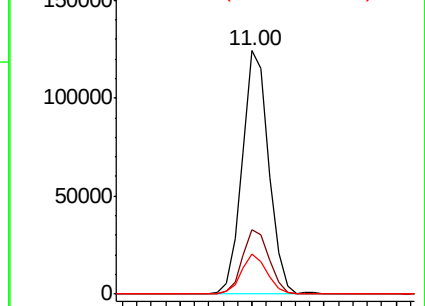
77 16.2 12.8 19.2

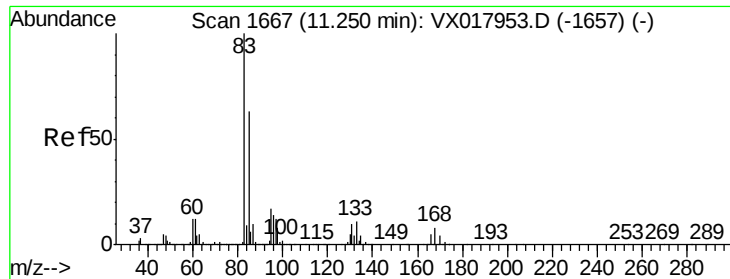


Abundance Ion 105.05 (104.75 to 105.75): V

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: 0.097 ug/L

RT: 11.24 min Scan# 1665

Delta R.T. -0.01 min

Lab File: VX017957.D

Acq: 18 Aug 2020 12:20

Instrument :

MSVOA_X

ClientSampleId :

BG0N0

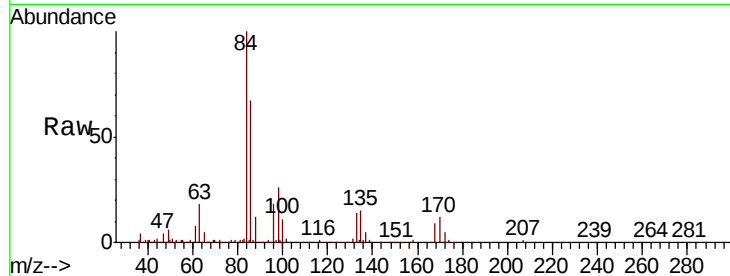
Tot Ion: 83 Resp: 1744

Ion Ratio Lower Upper

83 100

85 82.9 44.6 82.8#

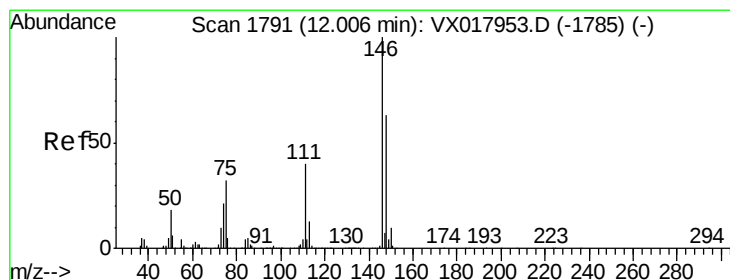
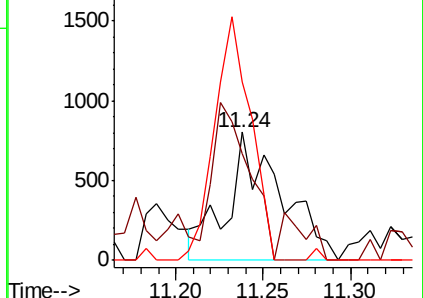
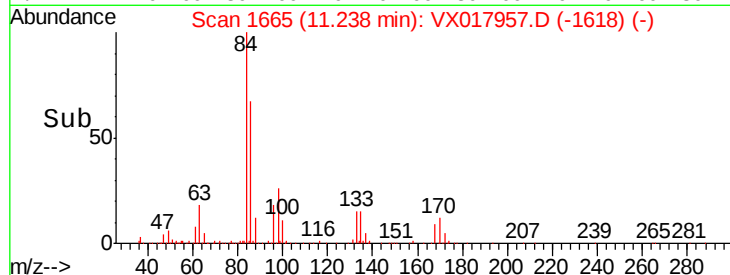
131 139.2 8.2 12.2#



Abundance Ion 82.95 (82.65 to 83.65): VX017953.D (-1657) (-)

Ion 85.00 (84.70 to 85.70): VX017957.D (-1618) (-)

Ion 130.95 (130.65 to 131.65): VX017957.D (-1618) (-)



#63

1,3-Dichlorobenzene

Concen: 0.103 ug/L

RT: 12.01 min Scan# 1792

Delta R.T. 0.01 min

Lab File: VX017957.D

Acq: 18 Aug 2020 12:20

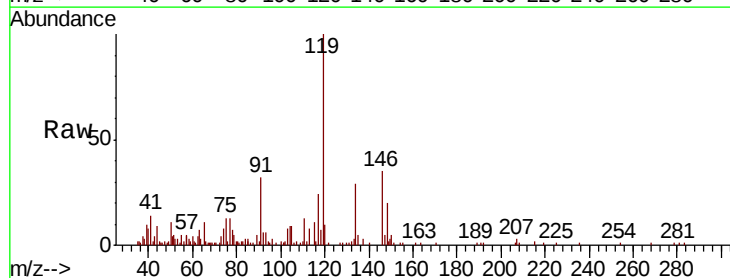
Tgt Ion: 146 Resp: 4916

Ion Ratio Lower Upper

146 100

111 36.4 27.6 51.4

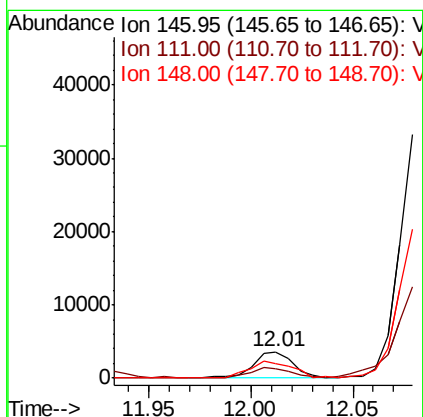
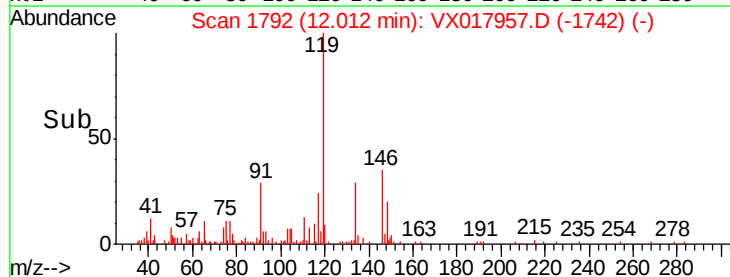
148 56.1 43.9 81.5

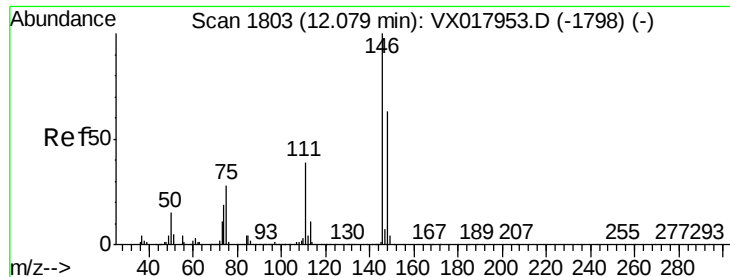


Abundance Ion 145.95 (145.65 to 146.65): VX017953.D (-1785) (-)

Ion 111.00 (110.70 to 111.70): VX017957.D (-1742) (-)

Ion 148.00 (147.70 to 148.70): VX017957.D (-1742) (-)





#64

1,4-Dichlorobenzene

Concen: 0.879 ug/L

RT: 12.08 min Scan# 1803

Delta R.T. -0.00 min

Lab File: VX017957.D

Acq: 18 Aug 2020 12:20

Instrument :

MSVOA_X

ClientSampleId :

BG0N0

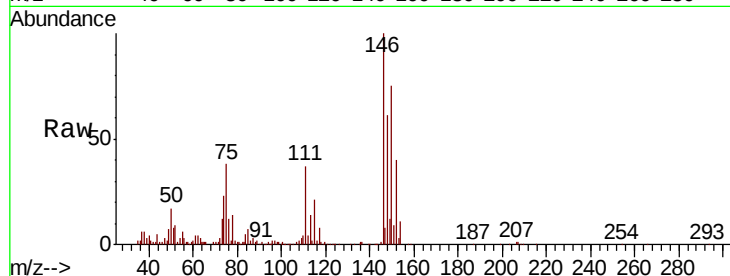
Tot Ion:146 Resp: 41906

Ion Ratio Lower Upper

146 100

111 37.4 26.0 48.2

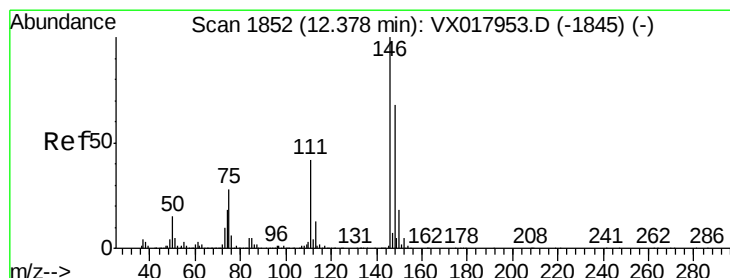
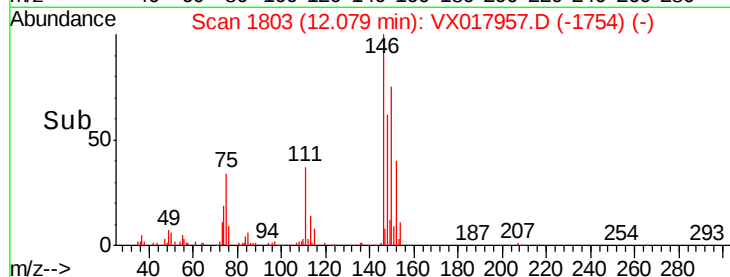
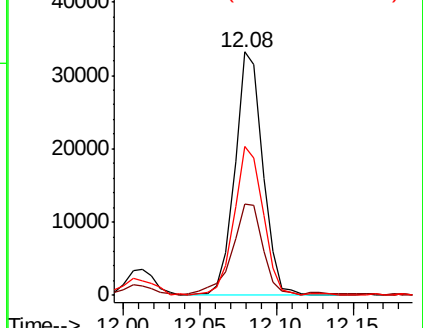
148 61.4 43.2 80.2



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: 0.661 ug/L

RT: 12.38 min Scan# 1852

Delta R.T. -0.00 min

Lab File: VX017957.D

Acq: 18 Aug 2020 12:20

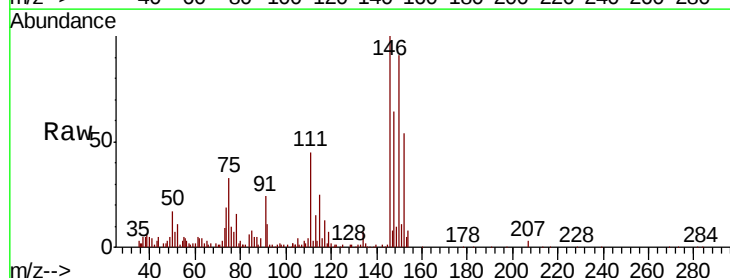
Tgt Ion:146 Resp: 29393

Ion Ratio Lower Upper

146 100

111 45.0 32.2 48.4

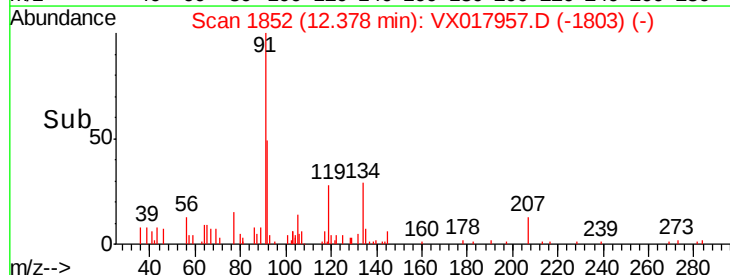
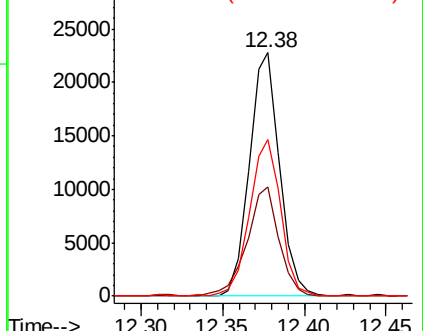
148 64.5 52.3 78.5

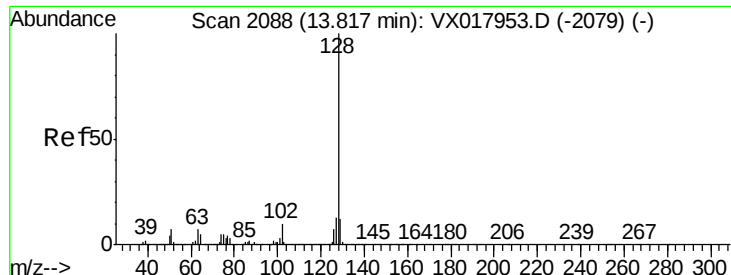


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#70

Naphthalene

Concen: 0.323 ug/L

RT: 13.82 min Scan# 2088

Delta R.T. -0.00 min

Lab File: VX017957.D

Acq: 18 Aug 2020 12:20

Instrument :

MSVOA_X

ClientSampleId :

BG0N0

Tot Ion:128 Resp: 18565

Ion Ratio Lower Upper

128 100

129 12.9 8.4 12.6#

127 18.0 11.0 16.4#

