

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070220\
 Data File : VX017159.D
 Acq On : 02 Jul 2020 19:19
 Operator : JC/SP
 Sample : L3164-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jul 06 08:01:15 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062920W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 29 17:10:38 2020
 Response via : Initial Calibration

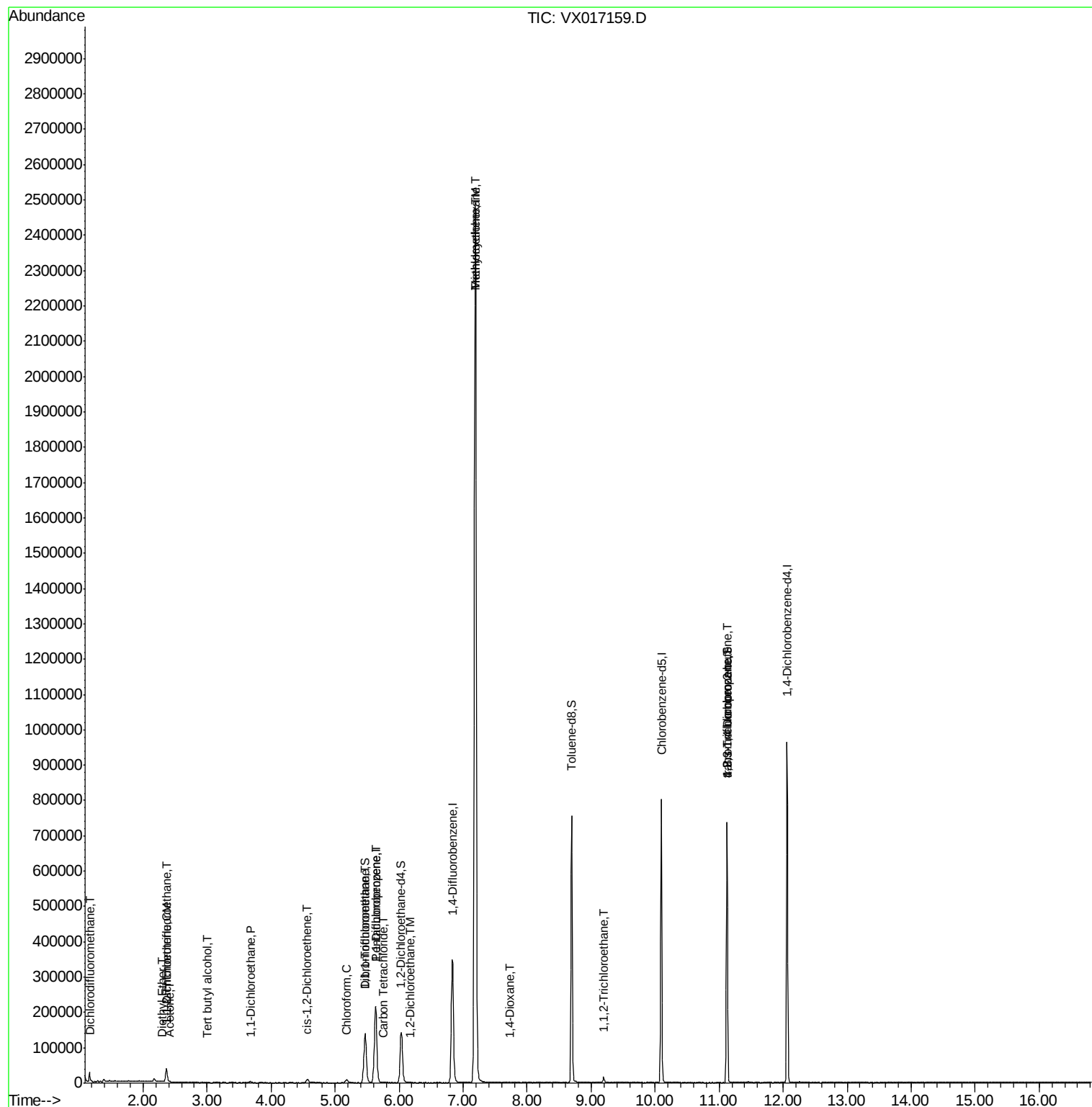
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	211012	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	352679	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	363921	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	194271	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.03	65	140596	54.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.10%	
35) Dibromofluoromethane	5.47	113	118972	53.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.66%	
50) Toluene-d8	8.70	98	432260	52.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.80%	
62) 4-Bromofluorobenzene	11.12	95	180219	55.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.76%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.18	85	1511	0.740	ug/l	99
8) Diethyl Ether	2.30	74	84	0.439	ug/l	51
9) 1,1,2-Trichlorotrifluoroet	2.37	101	9791	4.818	ug/l	95
11) Tert butyl alcohol	3.01	59	232	0.467	ug/l	100
12) 1,1-Dichloroethene	2.36	96	6081	2.913	ug/l	90
16) Acetone	2.42	43	2351	2.416	ug/l #	87
20) Methylene Chloride	2.84	84	423	Below Cal	#	79
24) 1,1-Dichloroethane	3.67	63	3728	0.918	ug/l #	93
27) cis-1,2-Dichloroethene	4.56	96	6526	2.486	ug/l	89
30) Chloroform	5.18	83	9542	2.291	ug/l	91
32) 1,1,1-Trichloroethane	5.47	97	1224	0.319	ug/l #	43
36) 1,1-Dichloropropene	5.63	75	14990	4.497	ug/l #	50
38) Carbon Tetrachloride	5.75	117	1307	0.356	ug/l #	74
39) Methylcyclohexane	7.19	83	10721	2.891	ug/l #	1
42) 1,2-Dichloroethane	6.17	62	1081	0.306	ug/l	96
44) Trichloroethene	7.19	130	981283	365.047	ug/l	99
49) 1,4-Dioxane	7.72	88	675	11.159	ug/l #	83
55) 1,1,2-Trichloroethane	9.20	97	4292	1.718	ug/l	95
76) 1,2,3-Trichloropropane	11.12	75	91360	23.915	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	91360	61.931	ug/l #	13
88) 1,4-Dichlorobenzene	12.09	146	503	Below Cal	#	25

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.00 min

Lab File: VX017159.D

Acq: 02 Jul 2020 19:19

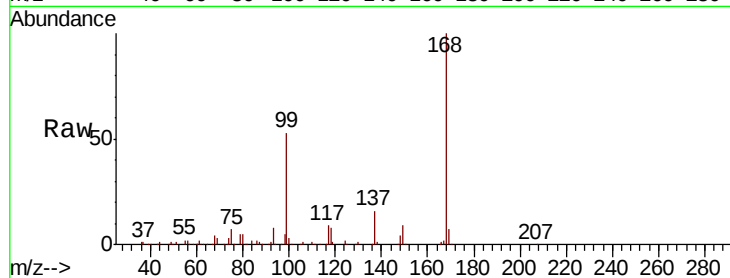
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 211012

Ion Ratio Lower Upper

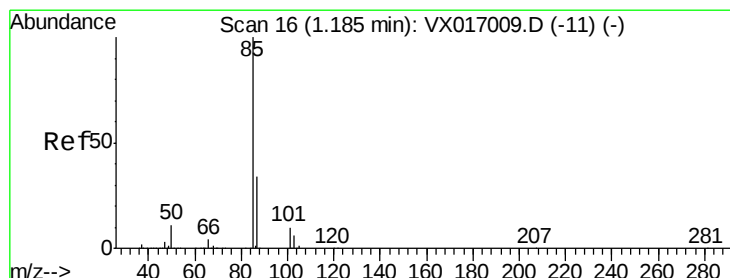
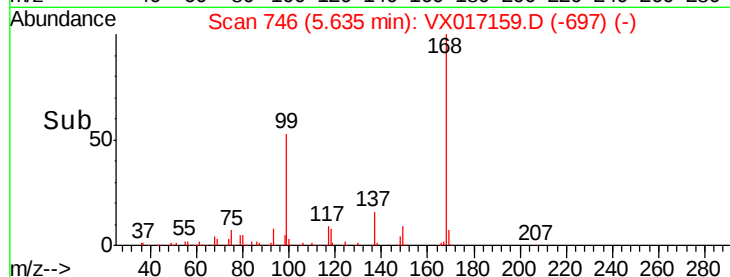
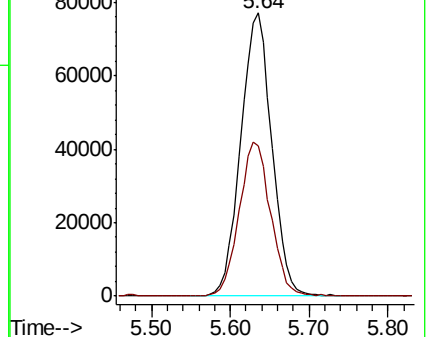
168 100

99 53.2 42.6 64.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: 0.740 ug/l

RT: 1.18 min Scan# 16

Delta R.T. 0.00 min

Lab File: VX017159.D

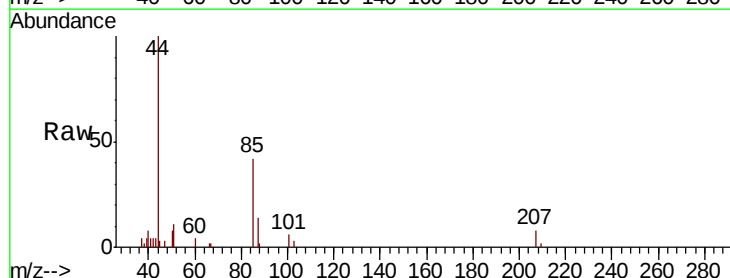
Acq: 02 Jul 2020 19:19

Tgt Ion: 85 Resp: 1511

Ion Ratio Lower Upper

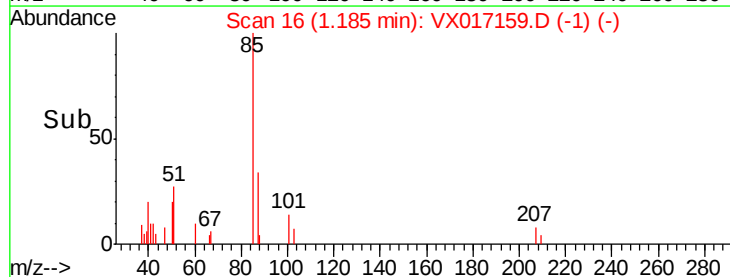
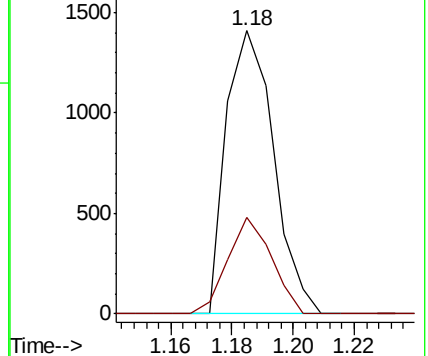
85 100

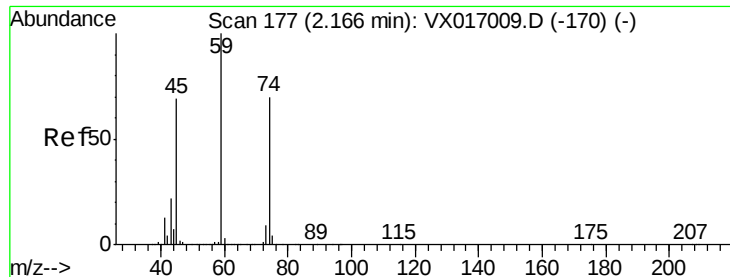
87 34.1 16.8 50.4



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#8

Diethyl Ether

Concen: 0.439 ug/l

RT: 2.30 min Scan# 199

Delta R.T. 0.13 min

Lab File: VX017159.D

Acq: 02 Jul 2020 19:19

Instrument :

MSVOA_X

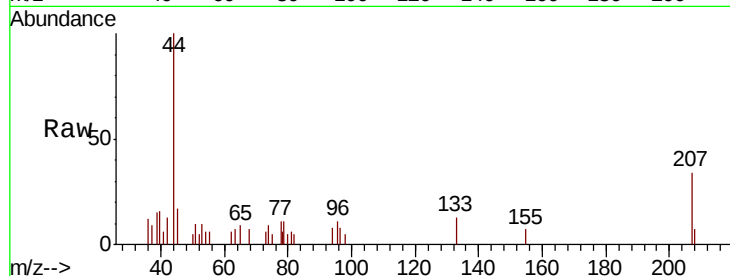
ClientSampled :

Tot Ion: 74 Resp: 84

Ion Ratio Lower Upper

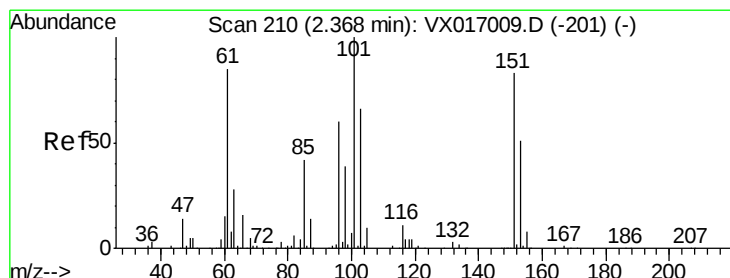
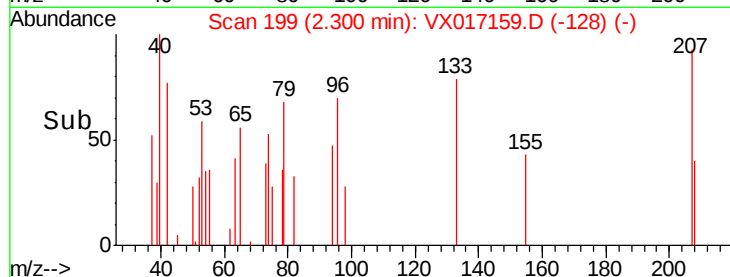
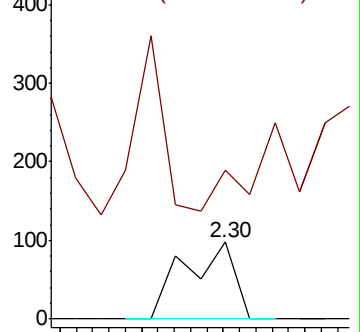
74 100

45 148.8 49.8 149.3



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



#9

1,1,2-Trichlorotrifluoroethane

Concen: 4.818 ug/l

RT: 2.37 min Scan# 210

Delta R.T. -0.00 min

Lab File: VX017159.D

Acq: 02 Jul 2020 19:19

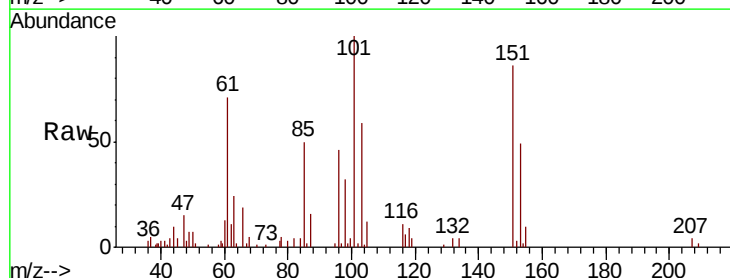
Tgt Ion: 101 Resp: 9791

Ion Ratio Lower Upper

101 100

85 45.8 33.5 50.3

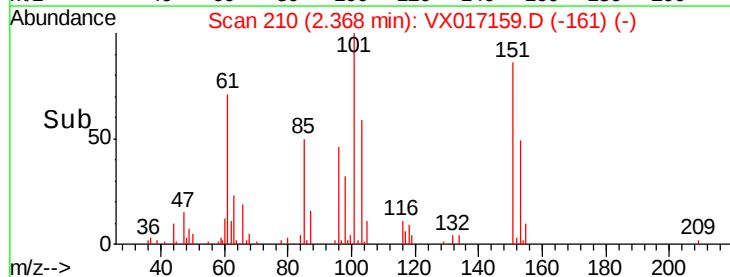
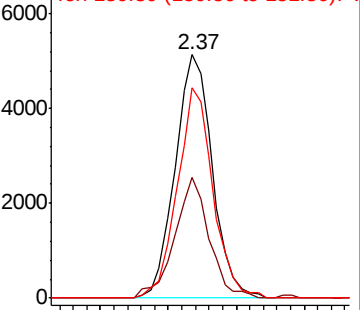
151 83.0 63.8 95.6

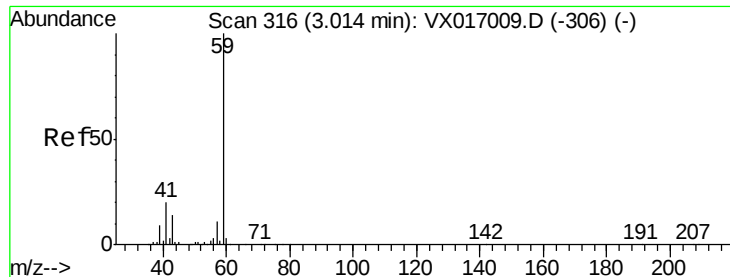


Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V

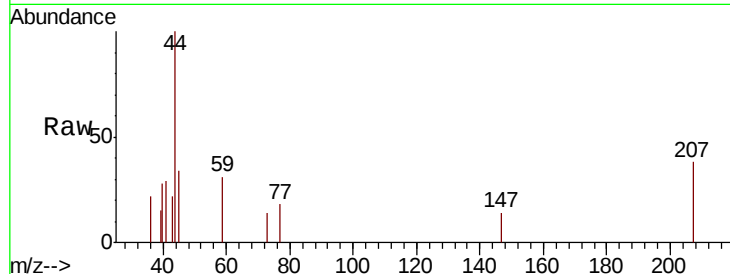




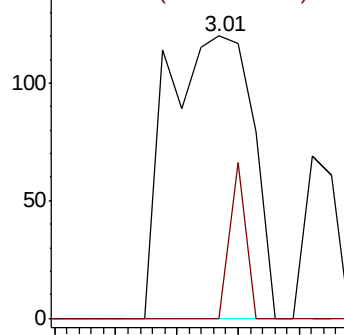
#11
Tert butyl alcohol
Concen: 0.467 ug/l
RT: 3.01 min Scan# 316
Delta R.T. 0.00 min
Lab File: VX017159.D
Acq: 02 Jul 2020 19:19

Instrument :
MSVOA_X
ClientSampled :

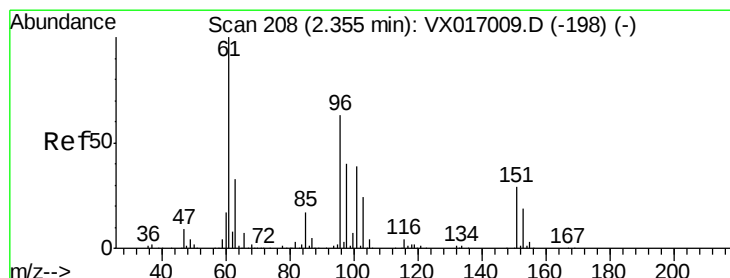
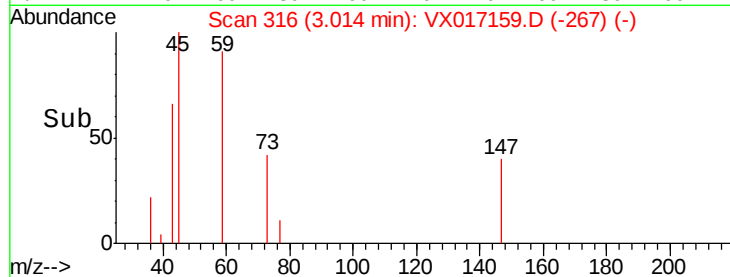
Tot Ion: 59 Resp: 232
Ion Ratio Lower Upper
59 100
57 10.3 8.2 12.2



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0

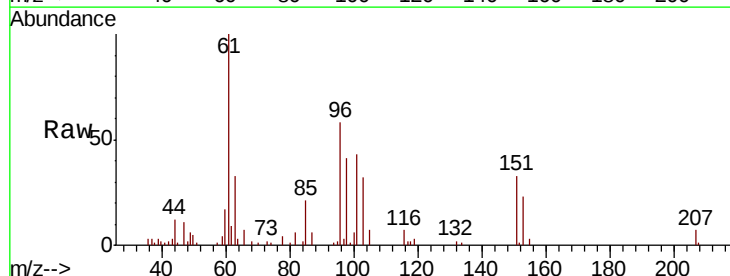


Time--> 2.96 2.98 3.00 3.02 3.04

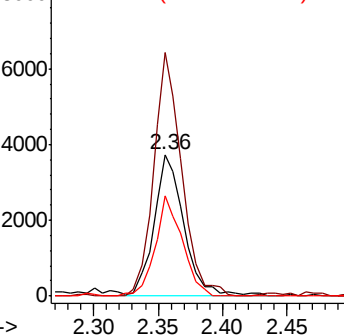


#12
1,1-Dichloroethene
Concen: 2.913 ug/l
RT: 2.36 min Scan# 208
Delta R.T. 0.00 min
Lab File: VX017159.D
Acq: 02 Jul 2020 19:19

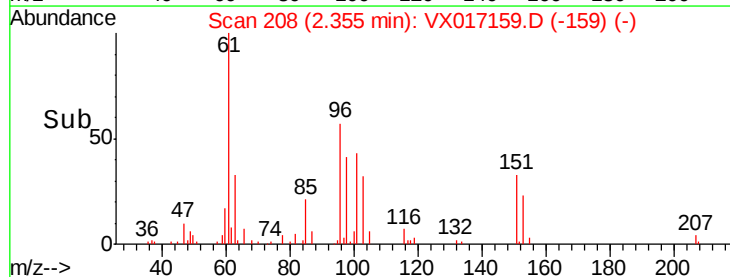
Tgt Ion: 96 Resp: 6081
Ion Ratio Lower Upper
96 100
61 172.3 126.3 189.5
98 71.0 51.0 76.6

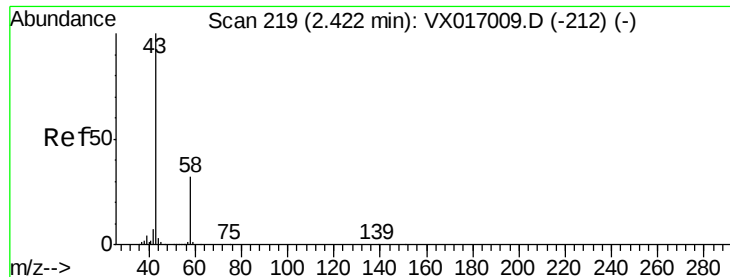


Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



Time--> 2.30 2.35 2.40 2.45





#16

Acetone

Concen: 2.416 ug/l

RT: 2.42 min Scan# 219

Delta R.T. 0.00 min

Lab File: VX017159.D

Acq: 02 Jul 2020 19:19

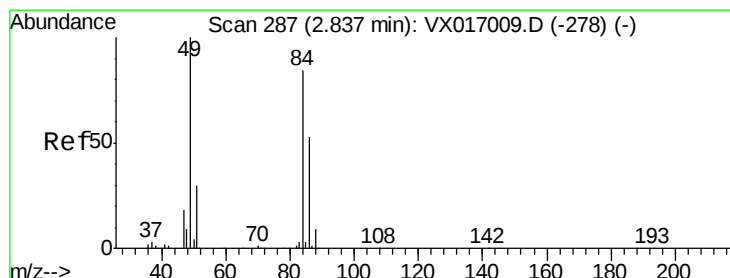
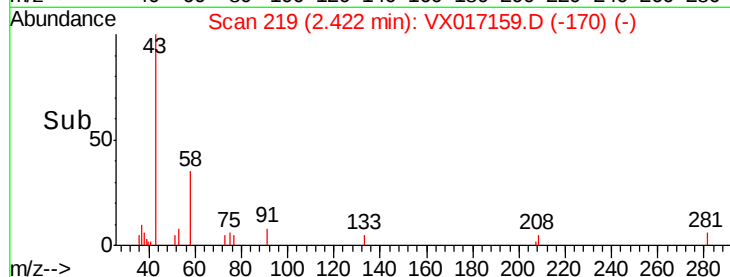
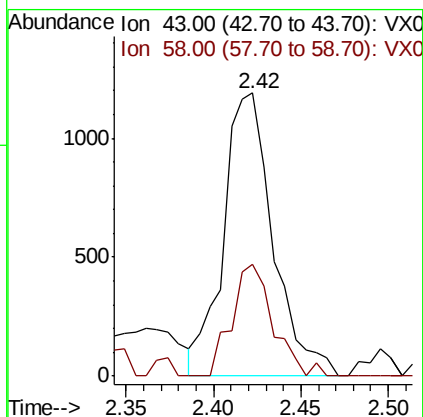
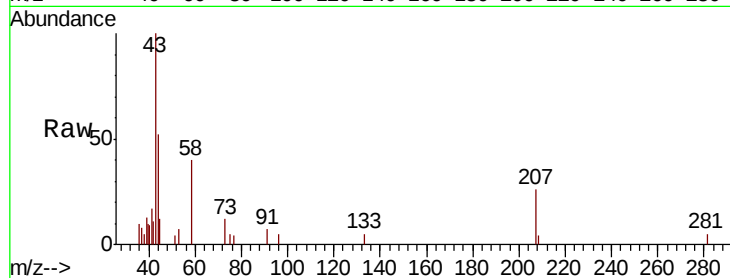
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 43 Resp: 2351

Ion Ratio Lower Upper

43 100

58 39.6 25.7 38.5#



#20

Methylene Chloride

Concen: Below Cal

RT: 2.84 min Scan# 287

Delta R.T. 0.00 min

Lab File: VX017159.D

Acq: 02 Jul 2020 19:19

Tgt Ion: 84 Resp: 423

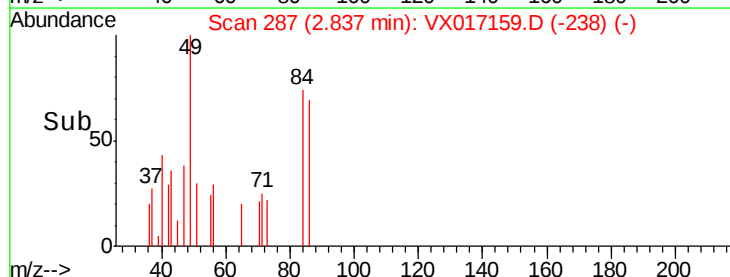
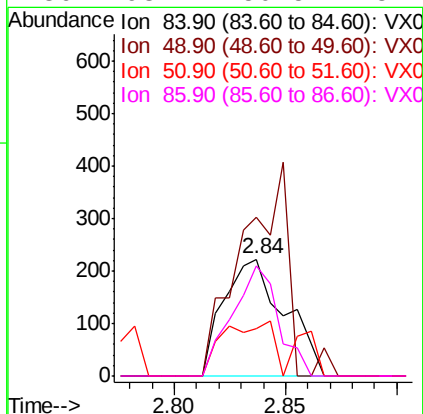
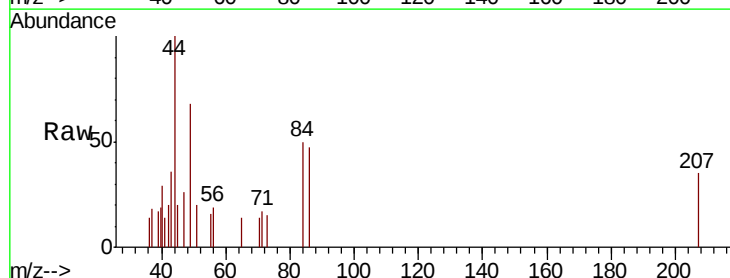
Ion Ratio Lower Upper

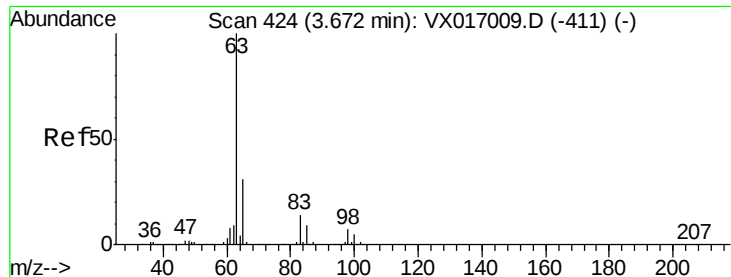
84 100

49 135.4 94.7 142.1

51 40.8 28.6 42.8

86 93.7 50.5 75.7#





#24

1,1-Dichloroethane

Concen: 0.918 ug/l

RT: 3.67 min Scan# 424

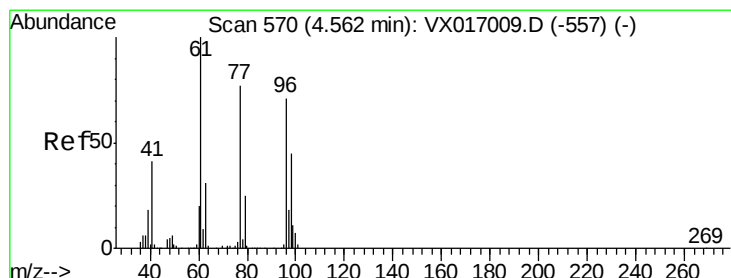
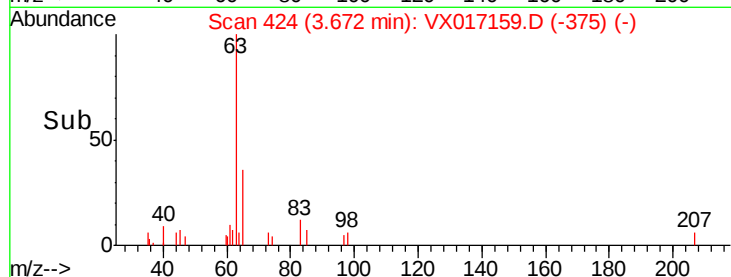
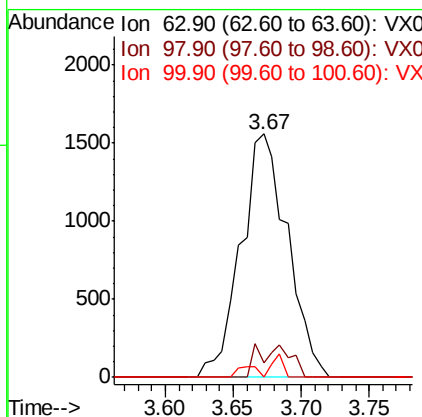
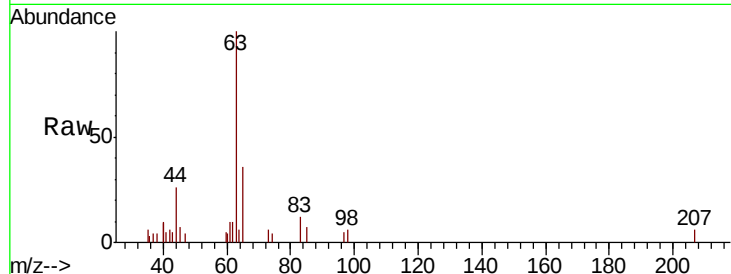
Delta R.T. 0.00 min

Lab File: VX017159.D

Acq: 02 Jul 2020 19:19

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:	63	Resp:	3728
Ion	Ratio	Lower	Upper
63	100		
98	6.2	3.6	10.8
100	0.0	2.4	7.1#



#27

cis-1,2-Dichloroethene

Concen: 2.486 ug/l

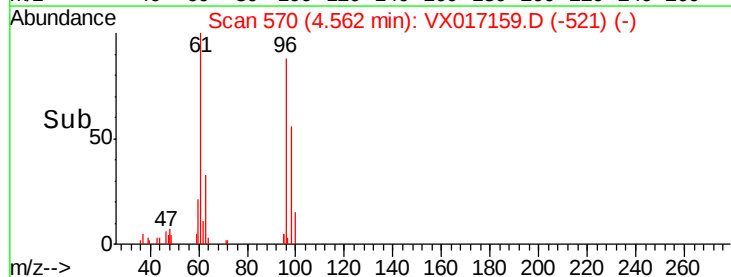
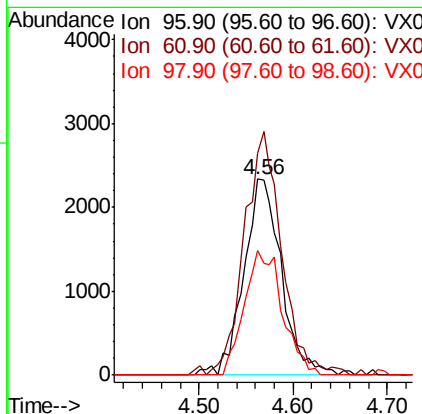
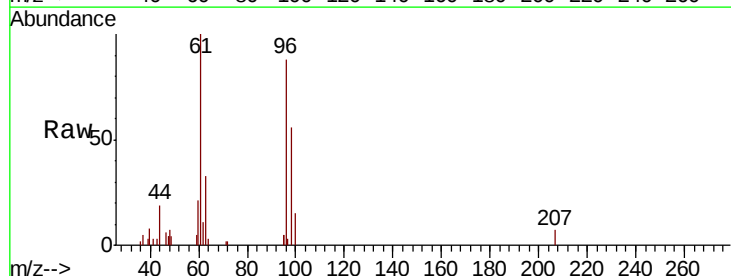
RT: 4.56 min Scan# 570

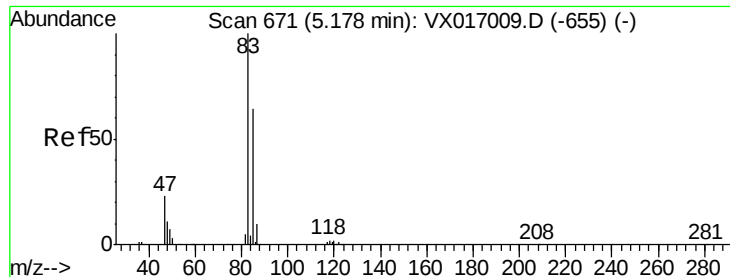
Delta R.T. 0.00 min

Lab File: VX017159.D

Acq: 02 Jul 2020 19:19

Tgt Ion:	96	Resp:	6526
Ion	Ratio	Lower	Upper
96	100		
61	122.6	0.0	282.8
98	64.6	0.0	127.6

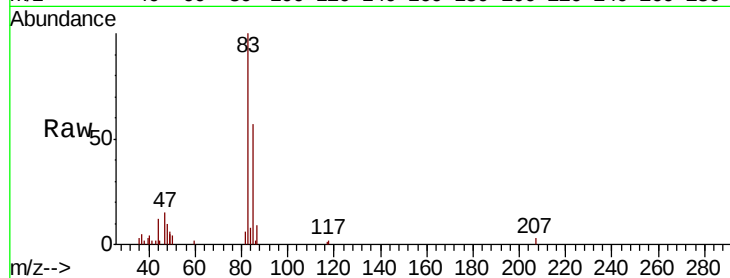




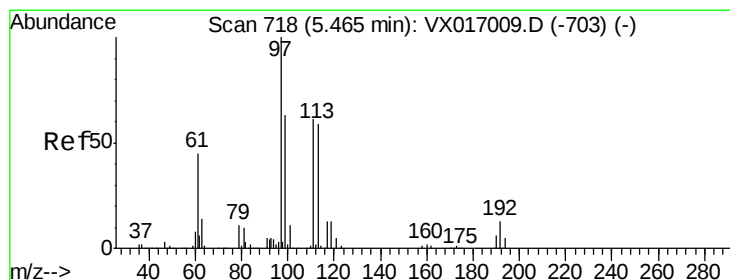
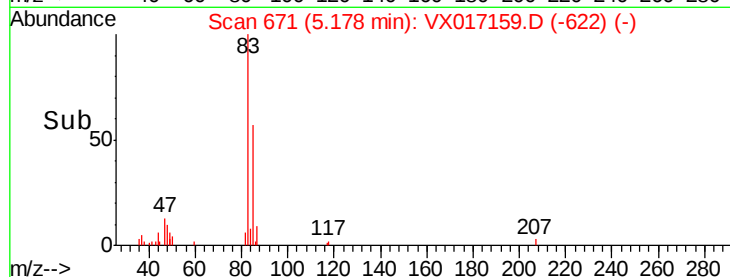
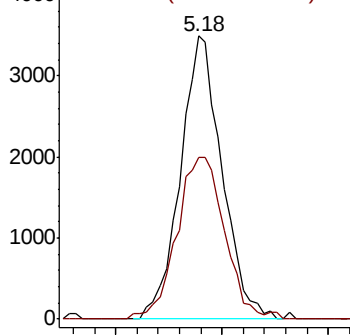
#30
Chloroform
Concen: 2.291 ug/l
RT: 5.18 min Scan# 671
Delta R.T. 0.00 min
Lab File: VX017159.D
Acq: 02 Jul 2020 19:19

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 83 Resp: 9542
Ion Ratio Lower Upper
83 100
85 56.9 51.4 77.2

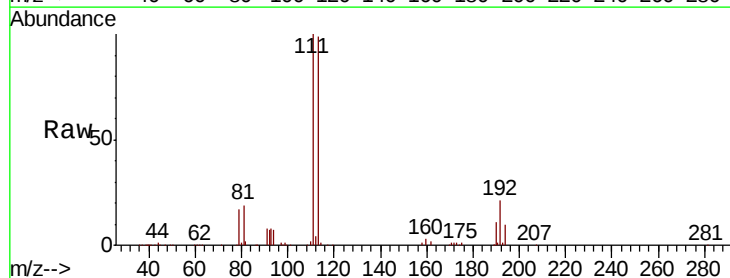


Abundance Ion 82.90 (82.60 to 83.60): VX0
Ion 84.90 (84.60 to 85.60): VX0

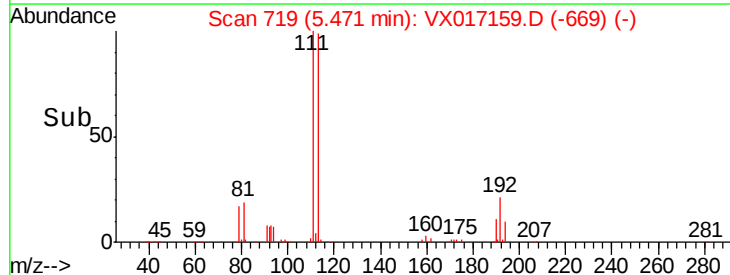
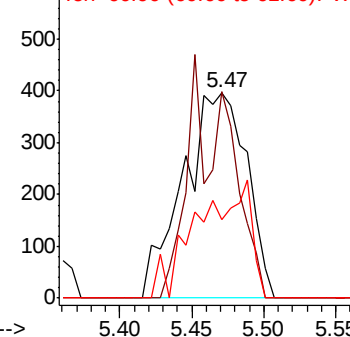


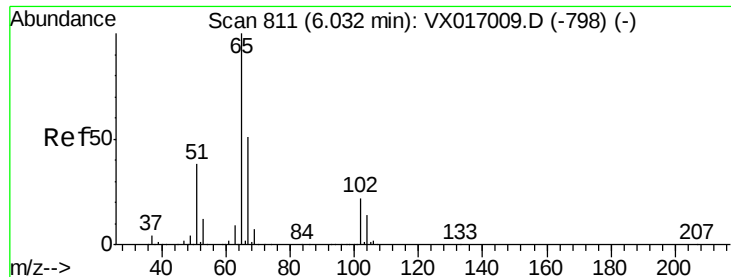
#32
1,1,1-Trichloroethane
Concen: 0.319 ug/l
RT: 5.47 min Scan# 719
Delta R.T. 0.01 min
Lab File: VX017159.D
Acq: 02 Jul 2020 19:19

Tgt Ion: 97 Resp: 1224
Ion Ratio Lower Upper
97 100
99 0.0 50.8 76.2#
61 28.8 33.7 50.5#



Abundance Ion 96.90 (96.60 to 97.60): VX0
Ion 98.90 (98.60 to 99.60): VX0
Ion 60.90 (60.60 to 61.60): VX0





#33

1,2-Dichloroethane-d4

Concen: 54.047 ug/l

RT: 6.03 min Scan# 811

Delta R.T. 0.00 min

Lab File: VX017159.D

Acq: 02 Jul 2020 19:19

Instrument :

MSVOA_X

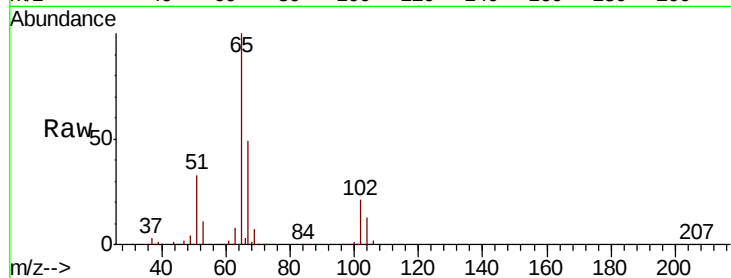
ClientSampleId :

Tot Ion: 65 Resp: 140596

Ion Ratio Lower Upper

65 100

67 51.4 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.03

60000

50000

40000

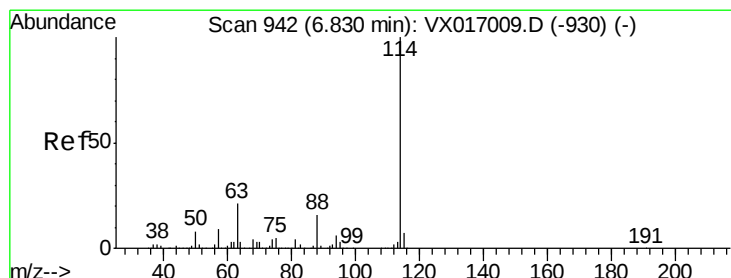
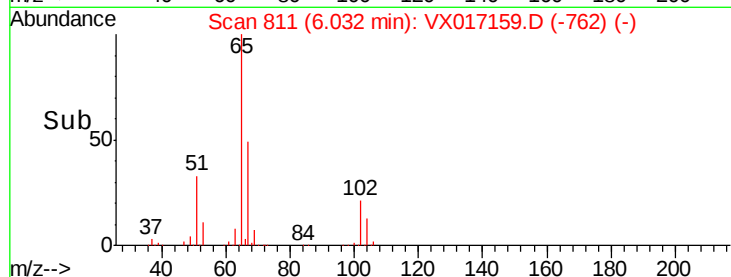
30000

20000

10000

0

Time--> 5.90 6.00 6.10



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. 0.00 min

Lab File: VX017159.D

Acq: 02 Jul 2020 19:19

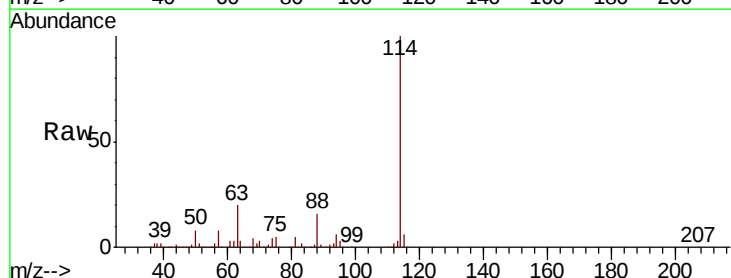
Tgt Ion: 114 Resp: 352679

Ion Ratio Lower Upper

114 100

63 20.3 0.0 41.4

88 15.6 0.0 32.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

200000

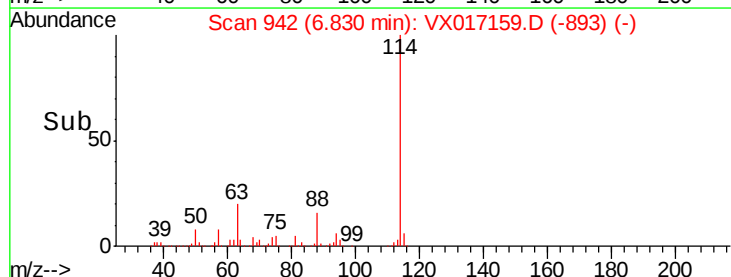
150000

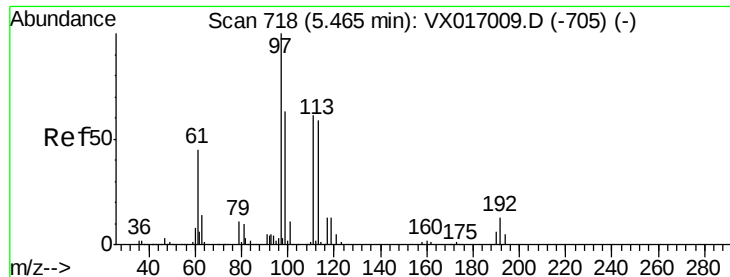
100000

50000

0

Time--> 6.70 6.80 6.90 7.00

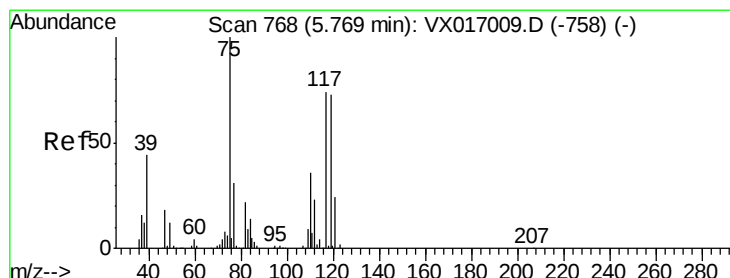
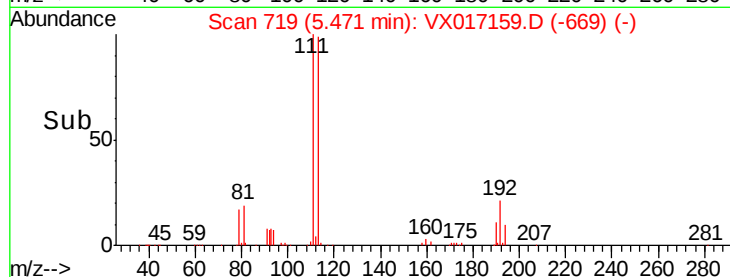
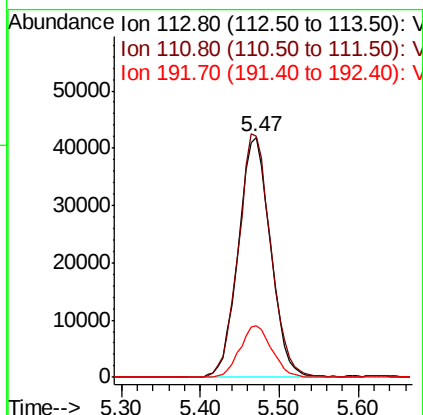
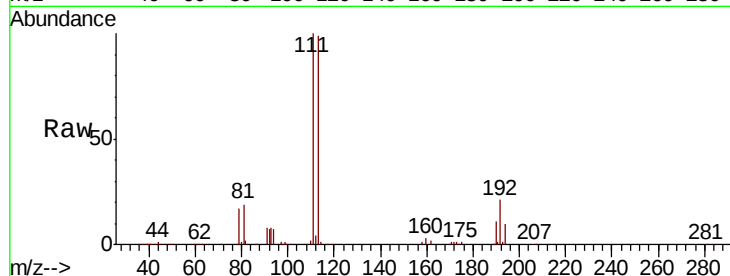




#35
Dibromofluoromethane
Concen: 53.328 ug/l
RT: 5.47 min Scan# 719
Delta R.T. 0.01 min
Lab File: VX017159.D
Acq: 02 Jul 2020 19:19

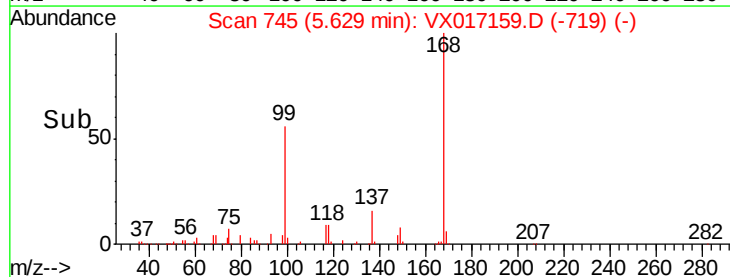
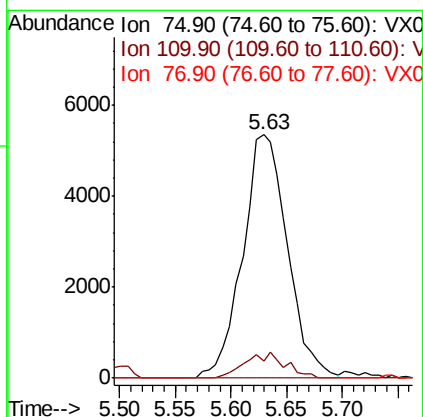
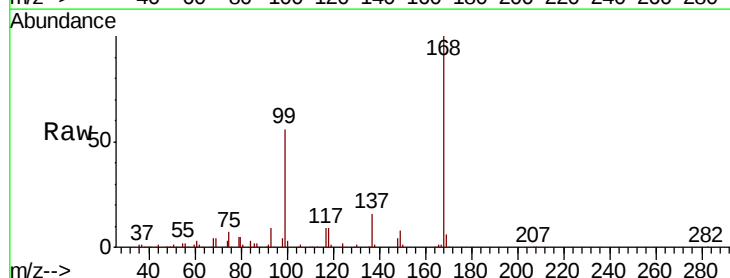
Instrument :
MSVOA_X
ClientSampled :

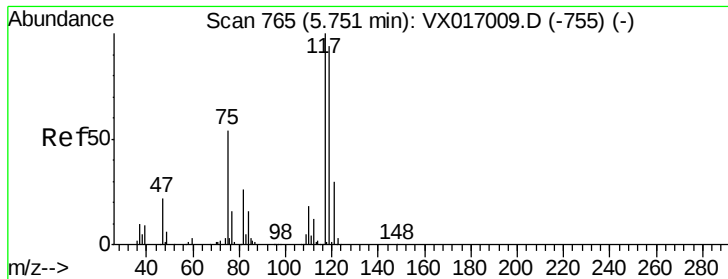
Tot Ion:113 Resp: 118972
Ion Ratio Lower Upper
113 100
111 101.7 81.9 122.9
192 21.4 16.7 25.1



#36
1,1-Dichloropropene
Concen: 4.497 ug/l
RT: 5.63 min Scan# 745
Delta R.T. -0.14 min
Lab File: VX017159.D
Acq: 02 Jul 2020 19:19

Tgt Ion: 75 Resp: 14990
Ion Ratio Lower Upper
75 100
110 9.4 18.1 54.1#
77 0.0 24.6 37.0#

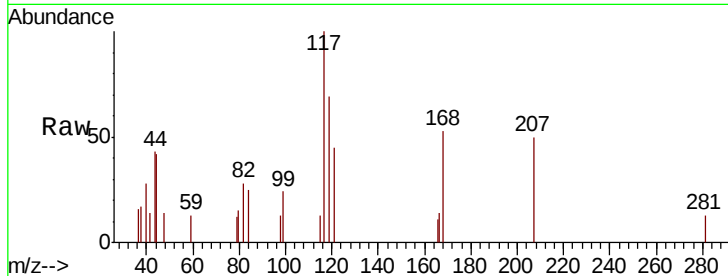




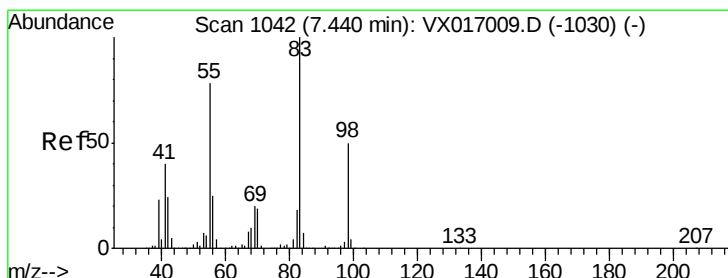
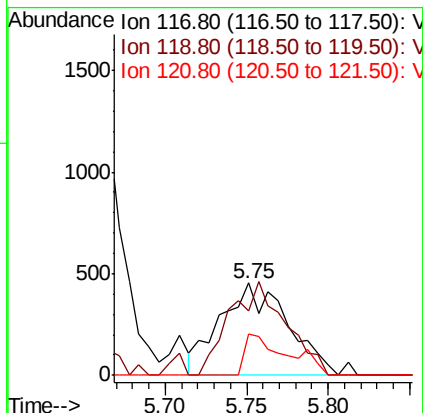
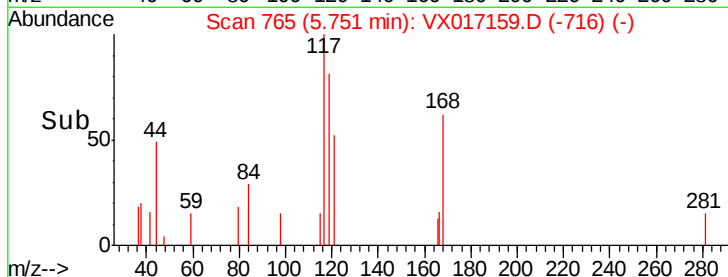
#38
Carbon Tetrachloride
Concen: 0.356 ug/l
RT: 5.75 min Scan# 765
Delta R.T. 0.00 min
Lab File: VX017159.D
Acq: 02 Jul 2020 19:19

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 1307
Ion Ratio Lower Upper
117 100
119 69.5 75.4 113.0#
121 44.6 23.8 35.6#

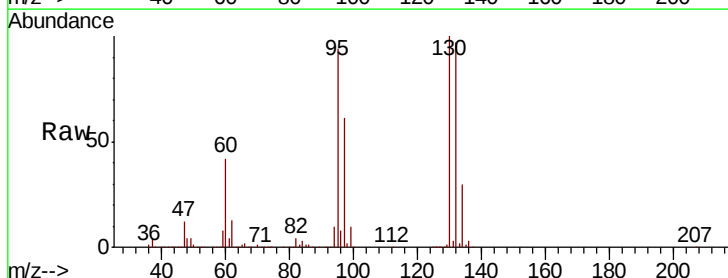


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

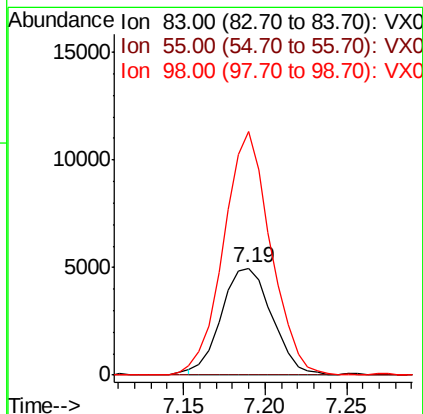
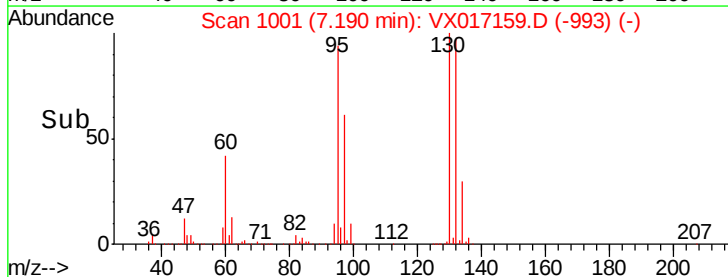


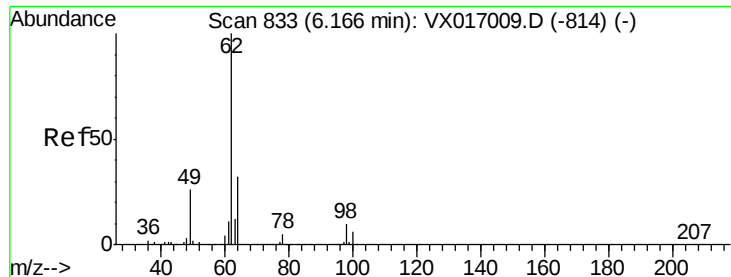
#39
Methylcyclohexane
Concen: 2.891 ug/l
RT: 7.19 min Scan# 1001
Delta R.T. -0.25 min
Lab File: VX017159.D
Acq: 02 Jul 2020 19:19

Tgt Ion: 83 Resp: 10721
Ion Ratio Lower Upper
83 100
55 0.0 62.5 93.7#
98 227.4 40.1 60.1#



Abundance Ion 83.00 (82.70 to 83.70): VX0
Ion 55.00 (54.70 to 55.70): VX0
Ion 98.00 (97.70 to 98.70): VX0





#42

1,2-Dichloroethane

Concen: 0.306 ug/l

RT: 6.17 min Scan# 833

Delta R.T. 0.00 min

Lab File: VX017159.D

Acq: 02 Jul 2020 19:19

Instrument :

MSVOA_X

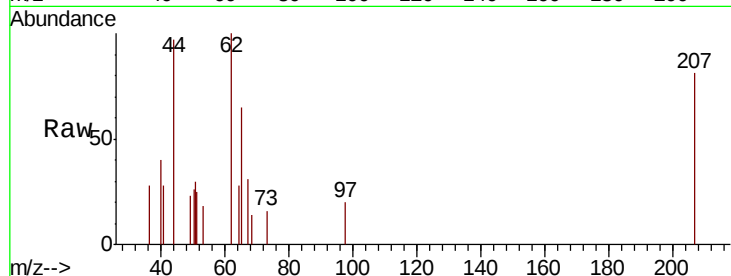
ClientSampleId :

Tot Ion: 62 Resp: 1081

Ion Ratio Lower Upper

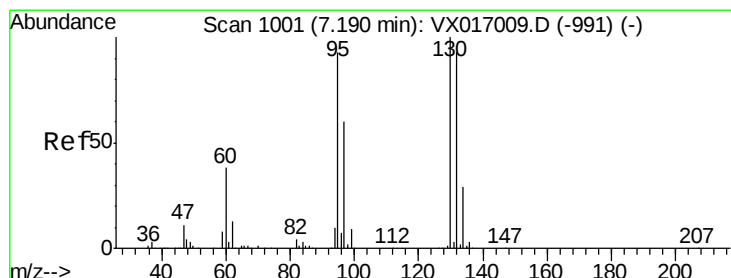
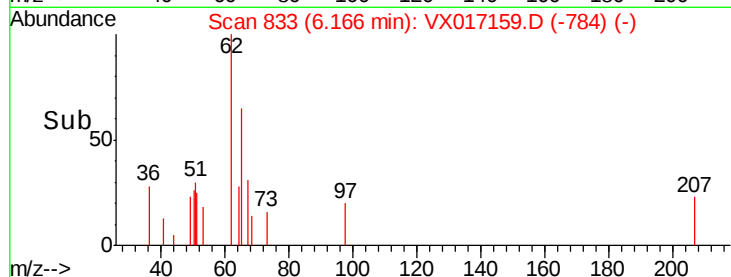
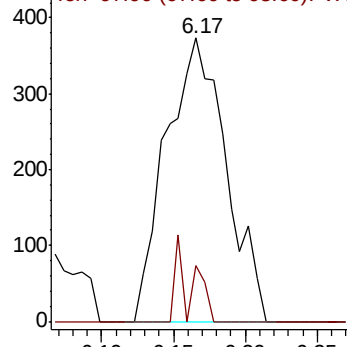
62 100

98 8.1 0.0 19.2



Abundance Ion 61.90 (61.60 to 62.60): VX017009.D

Ion 97.90 (97.60 to 98.60): VX017009.D



#44

Trichloroethene

Concen: 365.047 ug/l

RT: 7.19 min Scan# 1001

Delta R.T. 0.00 min

Lab File: VX017159.D

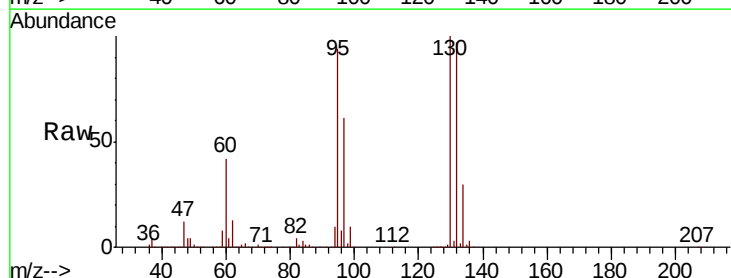
Acq: 02 Jul 2020 19:19

Tgt Ion:130 Resp: 981283

Ion Ratio Lower Upper

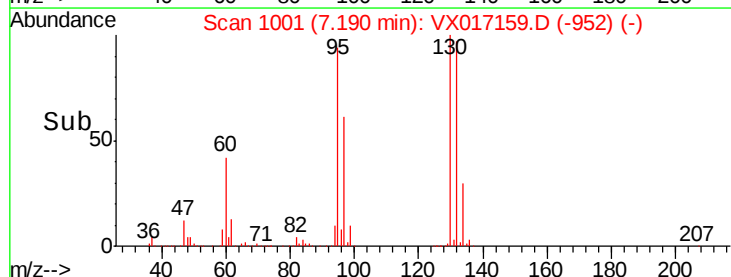
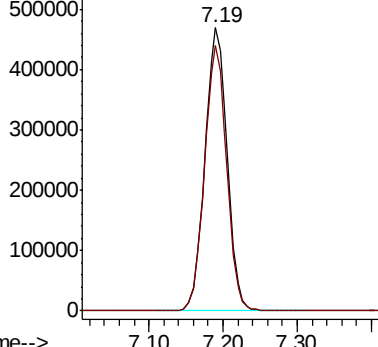
130 100

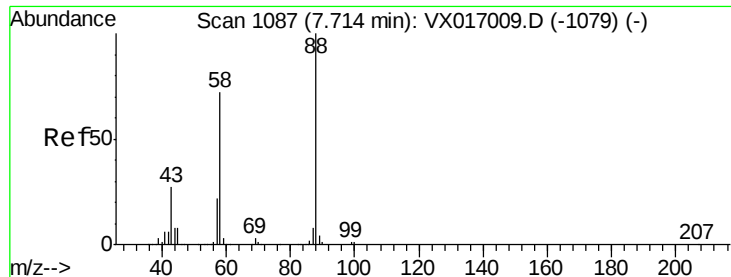
95 93.8 0.0 185.0



Abundance Ion 129.80 (129.50 to 130.50): VX017009.D

Ion 94.90 (94.60 to 95.60): VX017009.D

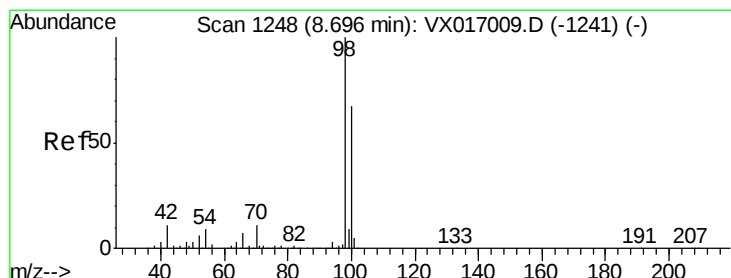
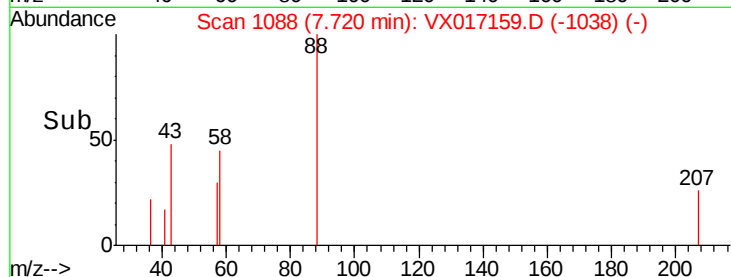
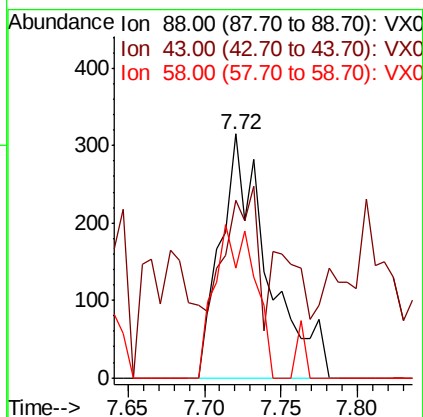
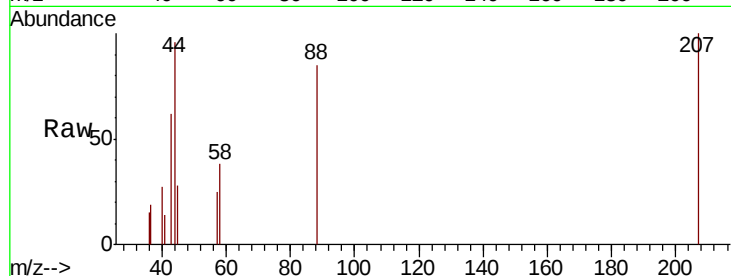




#49
1,4-Dioxane
Concen: 11.159 ug/l
RT: 7.72 min Scan# 1088
Delta R.T. 0.01 min
Lab File: VX017159.D
Acq: 02 Jul 2020 19:19

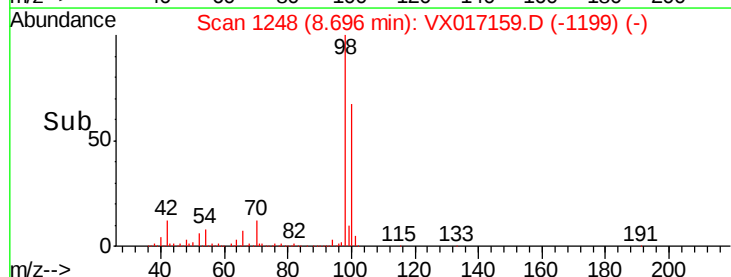
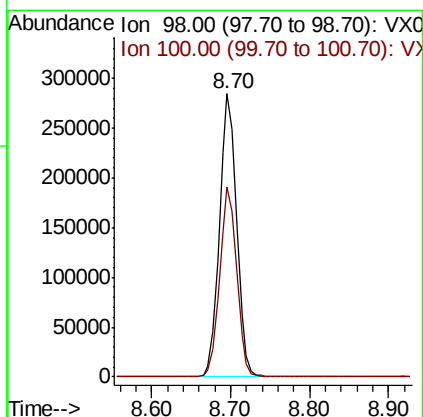
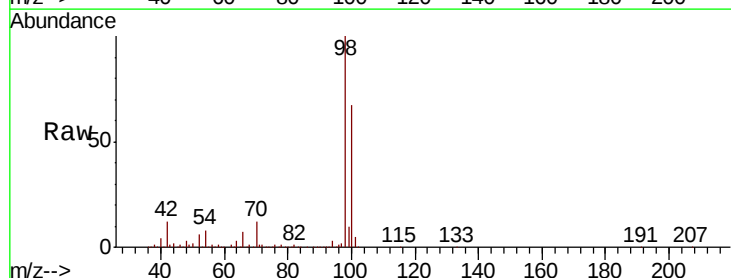
Instrument :
MSVOA_X
ClientSampleId :

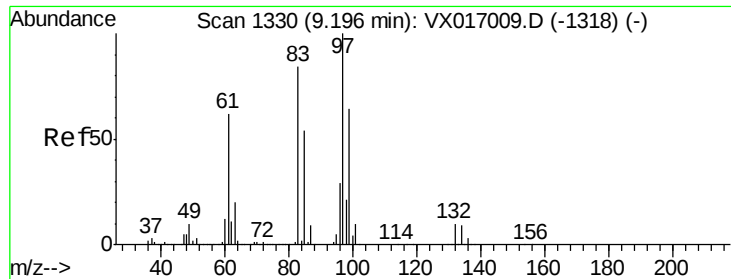
Tot Ion: 88 Resp: 675
Ion Ratio Lower Upper
88 100
43 39.0 25.8 38.8#
58 52.9 54.8 82.2#



#50
Toluene-d8
Concen: 52.398 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. 0.00 min
Lab File: VX017159.D
Acq: 02 Jul 2020 19:19

Tgt Ion: 98 Resp: 432260
Ion Ratio Lower Upper
98 100
100 66.6 53.8 80.6

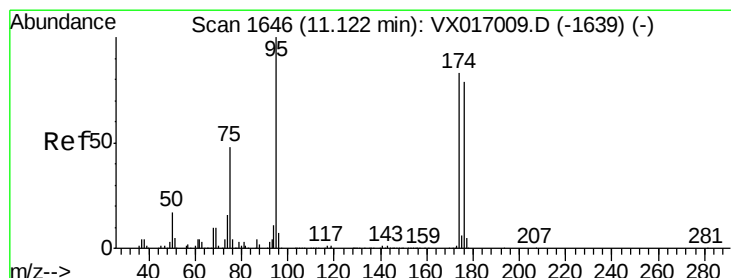
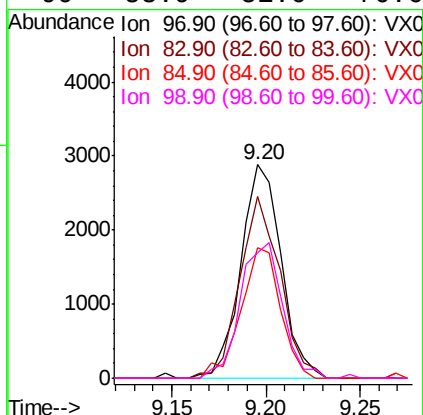
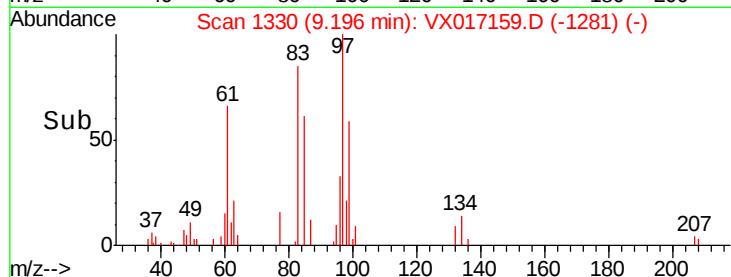
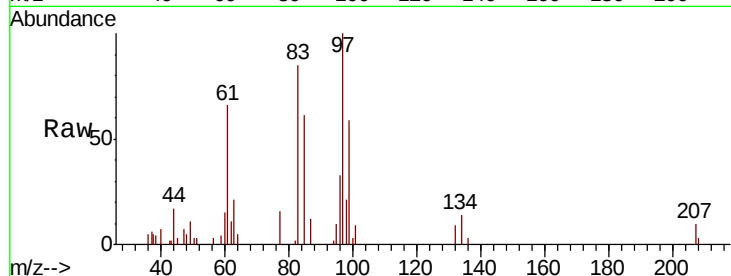




#55
 1,1,2-Trichloroethane
 Concen: 1.718 ug/l
 RT: 9.20 min Scan# 1330
 Delta R.T. 0.00 min
 Lab File: VX017159.D
 Acq: 02 Jul 2020 19:19

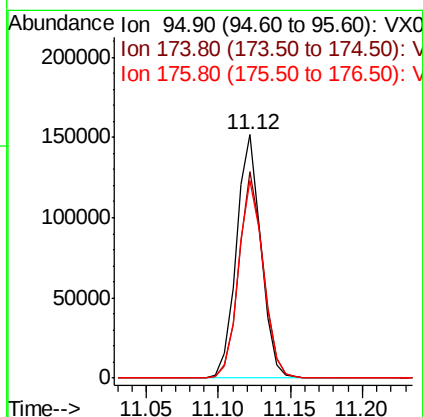
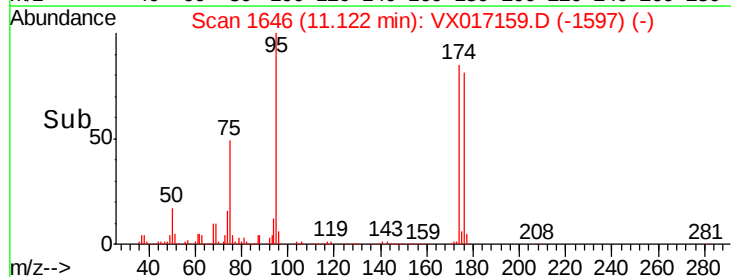
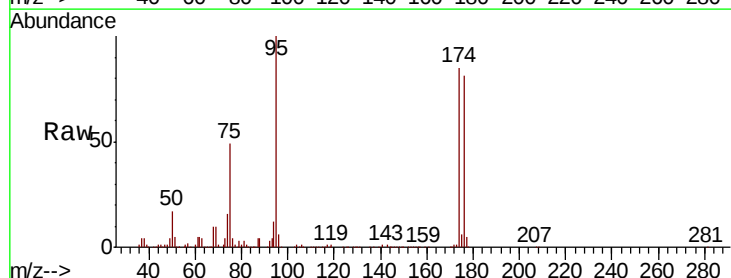
Instrument :
 MSVOA_X
 ClientSampleId :

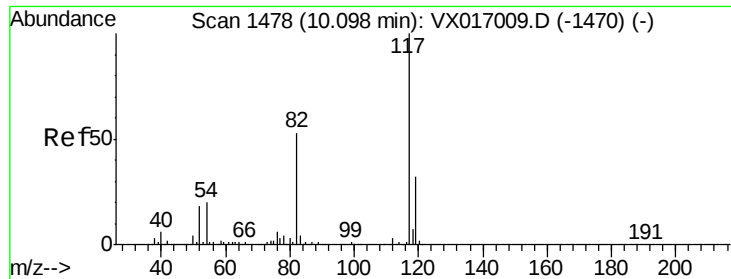
Tot Ion: 97 Resp: 4292
 Ion Ratio Lower Upper
 97 100
 83 85.3 67.0 100.6
 85 61.4 43.5 65.3
 99 58.9 51.0 76.6



#62
 4-Bromofluorobenzene
 Concen: 55.884 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. 0.00 min
 Lab File: VX017159.D
 Acq: 02 Jul 2020 19:19

Tgt Ion: 95 Resp: 180219
 Ion Ratio Lower Upper
 95 100
 174 84.1 0.0 164.0
 176 81.8 0.0 157.6

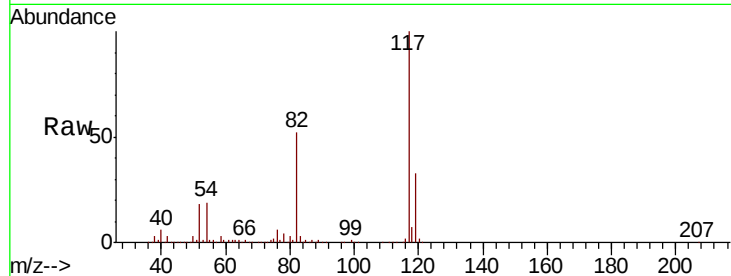




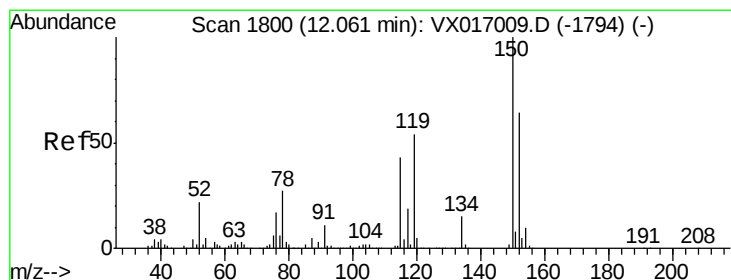
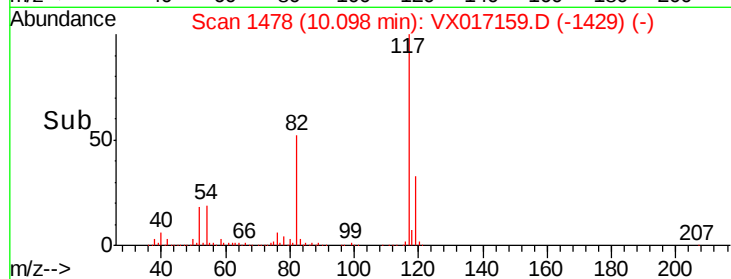
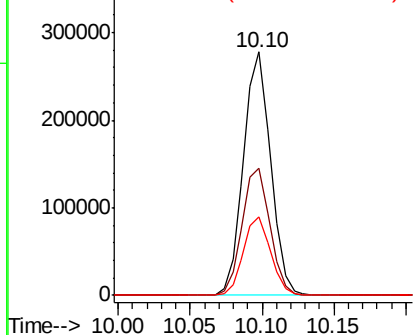
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. 0.00 min
Lab File: VX017159.D
Acq: 02 Jul 2020 19:19

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.1	42.6	63.8
119	32.5	25.4	38.2

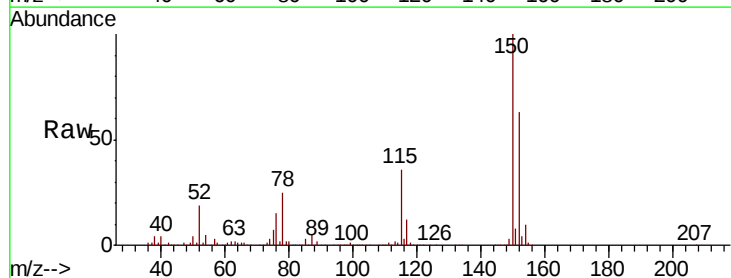


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

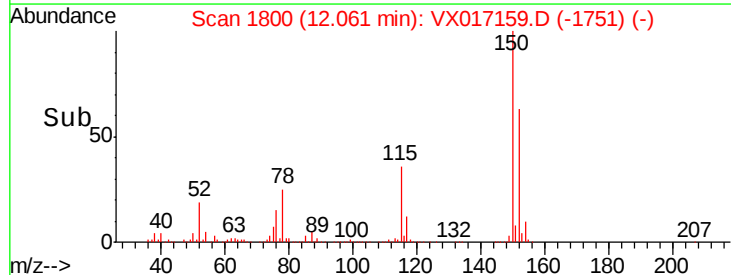
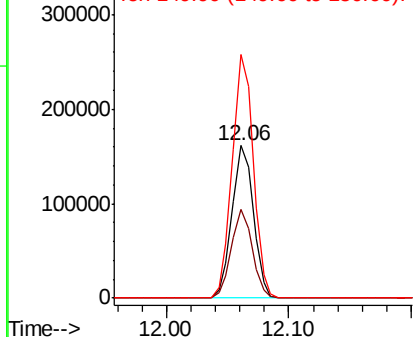


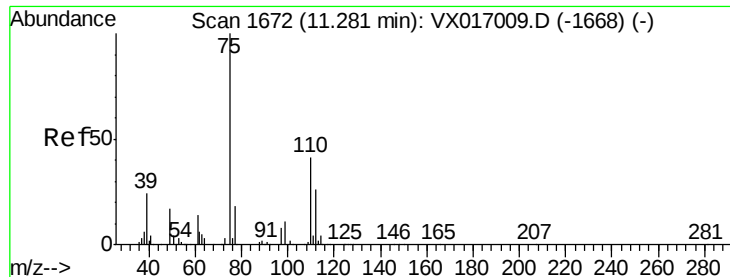
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. 0.00 min
Lab File: VX017159.D
Acq: 02 Jul 2020 19:19

Tgt Ion	Ratio	Lower	Upper
152	100		
115	57.3	40.9	122.7
150	157.5	0.0	351.6



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 23.915 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017159.D

Acq: 02 Jul 2020 19:19

Instrument :

MSVOA_X

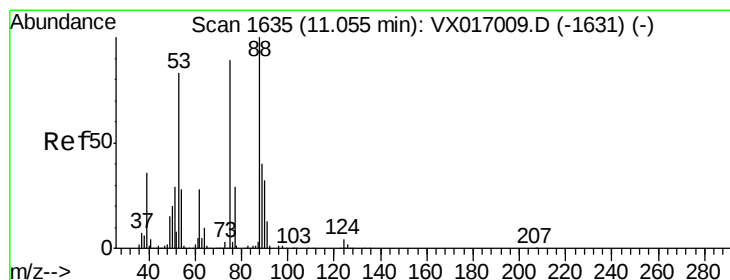
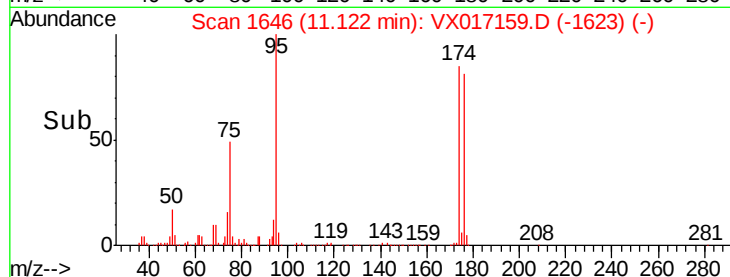
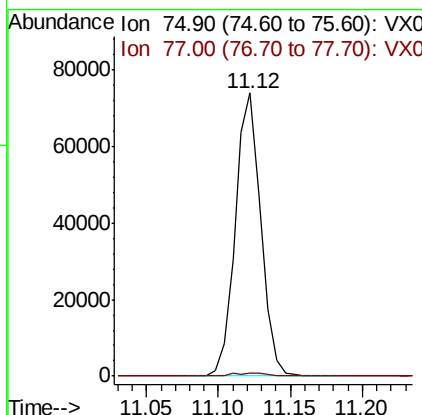
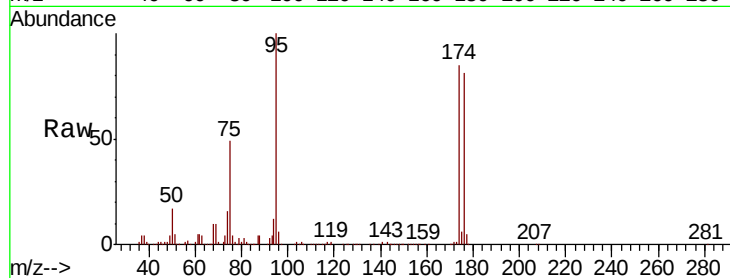
ClientSampleId :

Tot Ion: 75 Resp: 91360

Ion Ratio Lower Upper

75 100

77 1.5 20.2 60.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 61.931 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX017159.D

Acq: 02 Jul 2020 19:19

Tgt Ion: 75 Resp: 91360

Ion Ratio Lower Upper

75 100

53 0.3 72.4 108.6#

89 0.0 37.0 55.4#

