

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071620\
 Data File : VX017389.D
 Acq On : 16 Jul 2020 14:34
 Operator : JC/SP
 Sample : L3321-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 200715087-01-TRIP-BLANK

Quant Time: Jul 17 00:58:57 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071320W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 14 02:59:51 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	252817	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	437255	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	458696	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	242541	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	173181	54.58	ug/l	0.00
Spiked Amount			Recovery	=	109.16%	
35) Dibromofluoromethane	5.46	113	152086	51.63	ug/l	0.00
Spiked Amount			Recovery	=	103.26%	
50) Toluene-d8	8.70	98	542047	51.02	ug/l	0.00
Spiked Amount			Recovery	=	102.04%	
62) 4-Bromofluorobenzene	11.12	95	215483	51.06	ug/l	0.00
Spiked Amount			Recovery	=	102.12%	

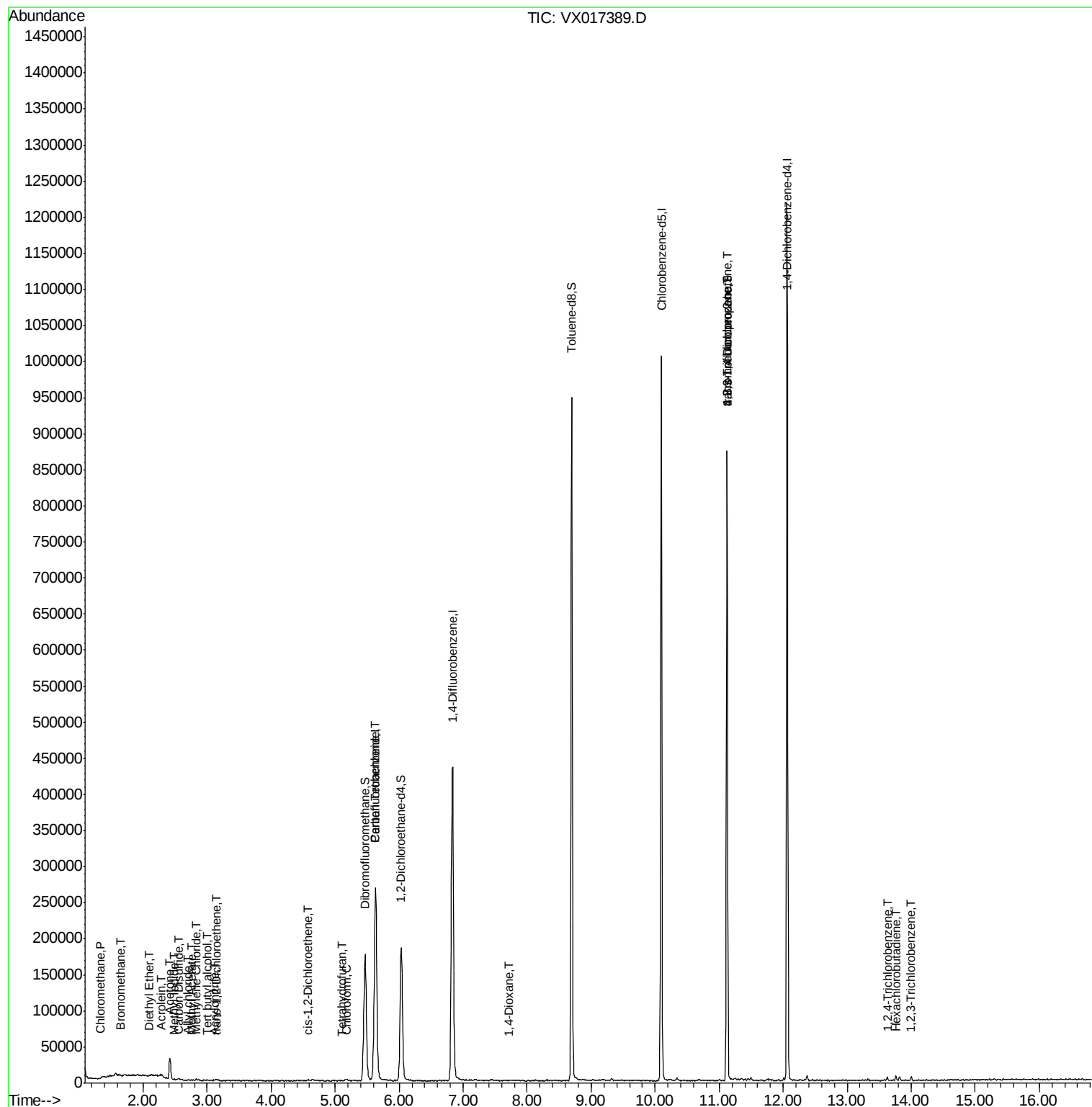
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	826	0.343	ug/l #	30
5) Bromomethane	1.64	94	339	0.219	ug/l #	77
8) Diethyl Ether	2.09	74	370	0.260	ug/l	81
10) Methyl Iodide	2.50	142	710	2.597	ug/l #	95
11) Tert butyl alcohol	3.01	59	411	0.769	ug/l #	31
13) Acrolein	2.28	56	459	1.566	ug/l #	66
14) Allyl chloride	2.71	41	1128	0.283	ug/l #	70
15) Acrylonitrile	3.12	53	841	0.649	ug/l #	81
16) Acetone	2.42	43	31922	28.199	ug/l	99
17) Carbon Disulfide	2.55	76	2329	0.347	ug/l #	66
18) Methyl Acetate	2.75	43	1164	0.416	ug/l #	78
20) Methylene Chloride	2.83	84	1172	0.424	ug/l	94
21) trans-1,2-Dichloroethene	3.14	96	695	0.264	ug/l #	73
27) cis-1,2-Dichloroethene	4.57	96	766	0.265	ug/l	53
29) Tetrahydrofuran	5.09	42	273	0.235	ug/l #	62
30) Chloroform	5.18	83	2129	0.443	ug/l	93
38) Carbon Tetrachloride	5.63	117	24879	5.283	ug/l #	20
49) 1,4-Dioxane	7.71	88	52	0.797	ug/l #	1
76) 1,2,3-Trichloropropane	11.12	75	108405	24.188	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	108405	61.360	ug/l #	11
93) 1,2,4-Trichlorobenzene	13.63	180	1600	0.317	ug/l	87
94) Hexachlorobutadiene	13.77	225	712	0.345	ug/l	81
96) 1,2,3-Trichlorobenzene	14.01	180	1171	0.240	ug/l	97

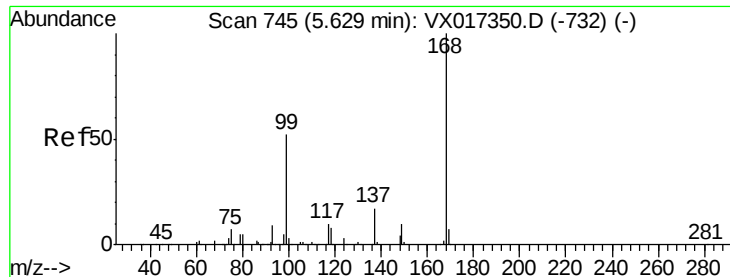
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jul 17 00:58:57 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X071320W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 14 02:59:51 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.01 min

Lab File: VX017389.D

Acq: 16 Jul 2020 14:34

Instrument :

MSVOA_X

ClientSampleId :

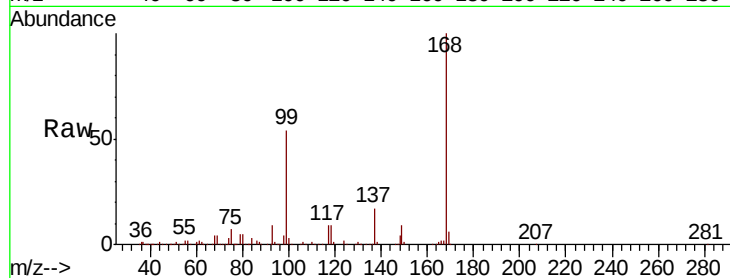
200715087-01-TRIP-BLANK

Tot Ion:168 Resp: 252817

Ion Ratio Lower Upper

168 100

99 54.2 41.6 62.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

100000

80000

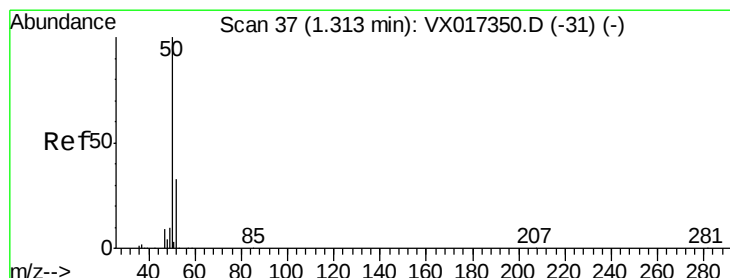
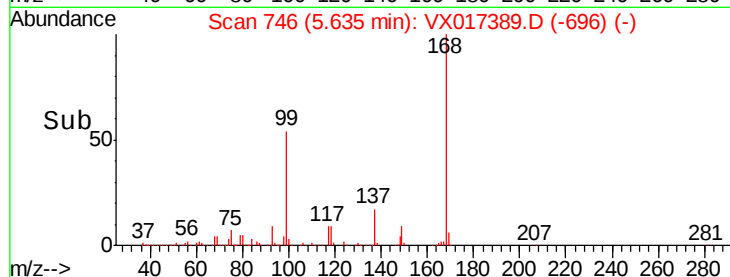
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.343 ug/l

RT: 1.32 min Scan# 38

Delta R.T. 0.01 min

Lab File: VX017389.D

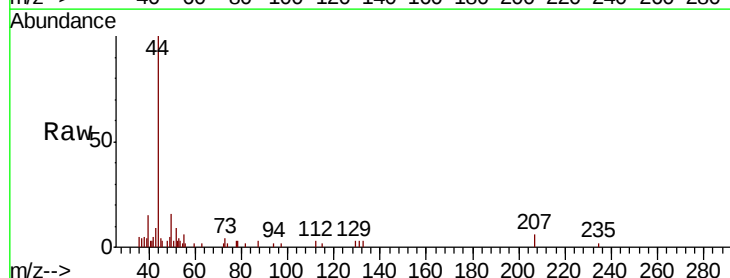
Acq: 16 Jul 2020 14:34

Tgt Ion: 50 Resp: 826

Ion Ratio Lower Upper

50 100

52 73.0 26.7 40.1#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

400

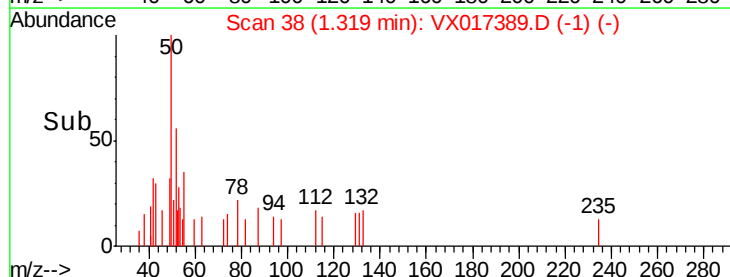
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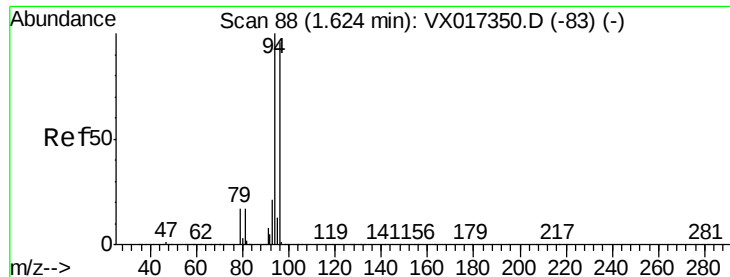
200

100

0

Time-->





#5

Bromomethane

Concen: 0.219 ug/l

RT: 1.64 min Scan# 91

Delta R.T. 0.02 min

Lab File: VX017389.D

Acq: 16 Jul 2020 14:34

Instrument :

MSVOA_X

ClientSampleId :

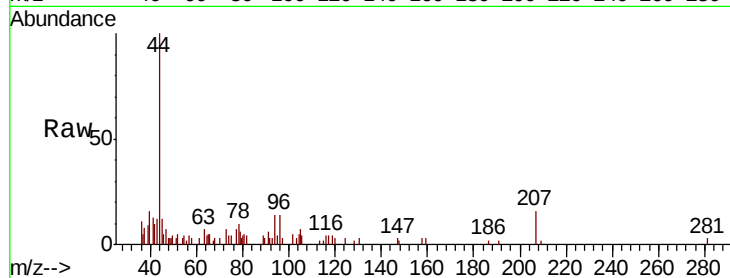
200715087-01-TRIP-BLANK

Tot Ion: 94 Resp: 339

Ion Ratio Lower Upper

94 100

96 73.6 76.6 115.0#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

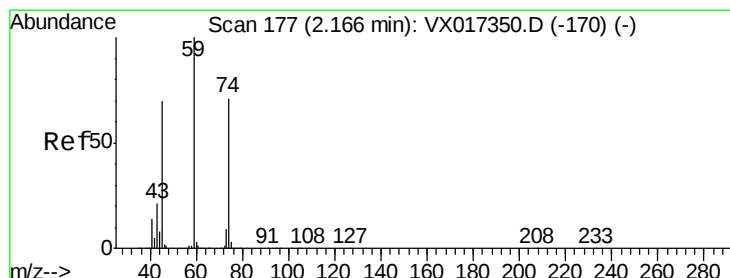
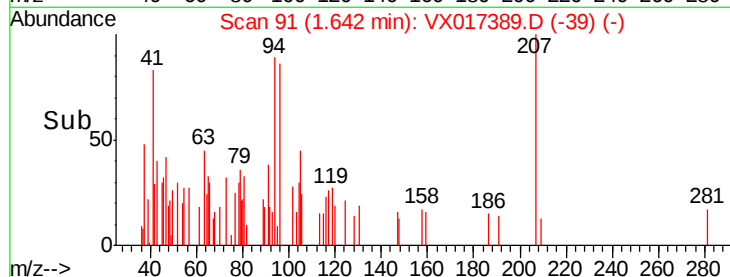
300

200

100

0

Time-->



#8

Diethyl Ether

Concen: 0.260 ug/l

RT: 2.09 min Scan# 165

Delta R.T. -0.07 min

Lab File: VX017389.D

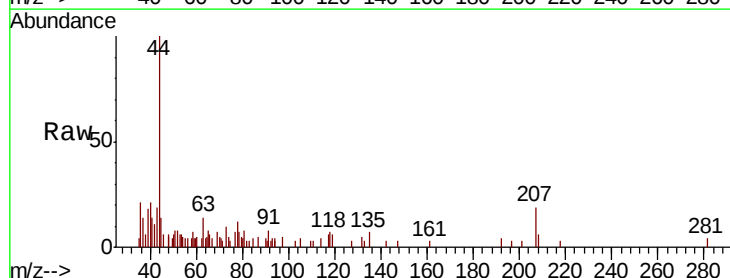
Acq: 16 Jul 2020 14:34

Tgt Ion: 74 Resp: 370

Ion Ratio Lower Upper

74 100

45 112.7 47.2 141.6



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

500

400

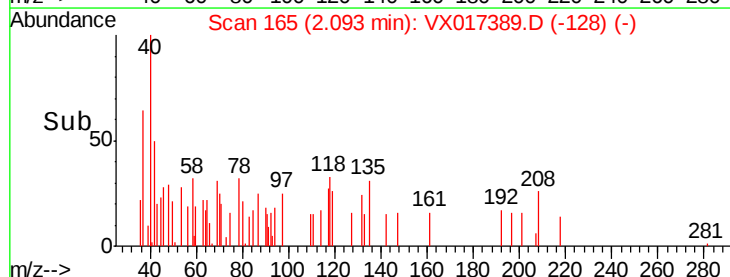
300

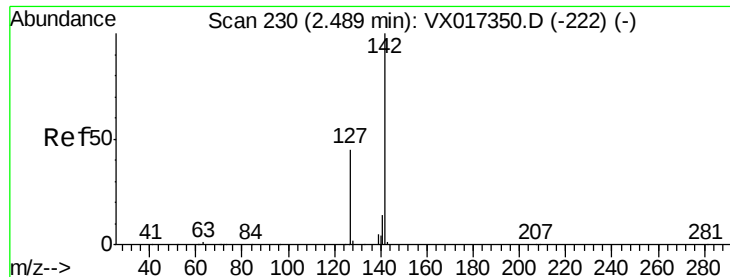
200

100

0

Time-->

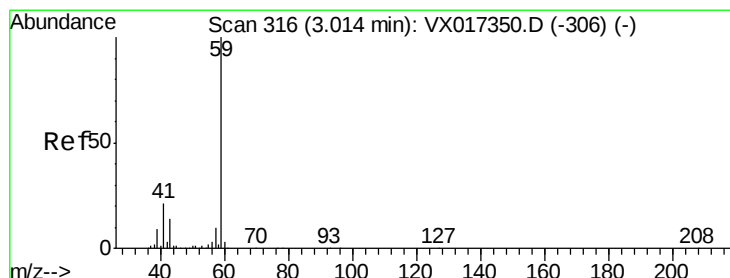
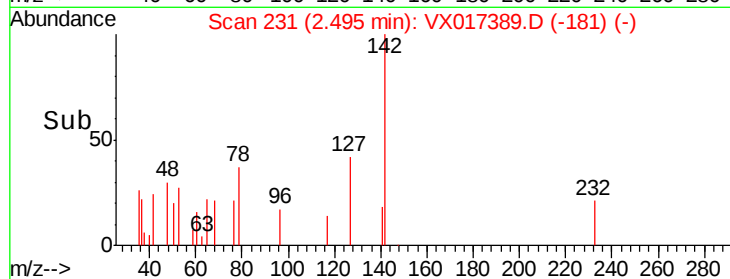
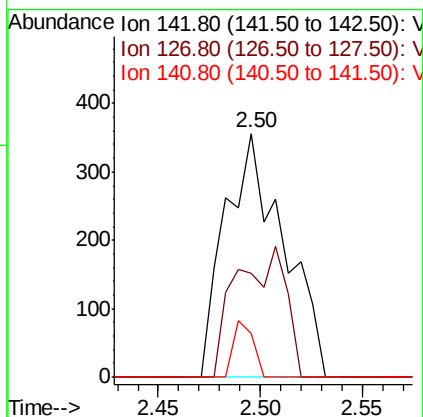
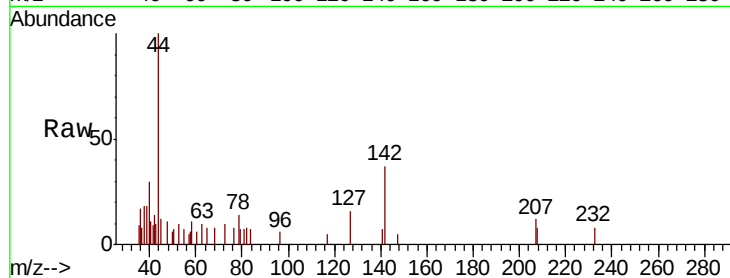




#10
Methyl Iodide
Concen: 2.597 ug/l
RT: 2.50 min Scan# 231
Delta R.T. 0.01 min
Lab File: VX017389.D
Acq: 16 Jul 2020 14:34

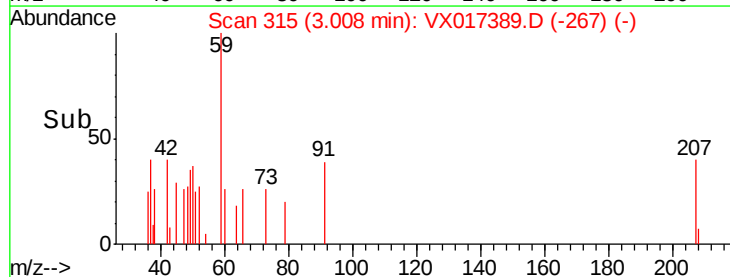
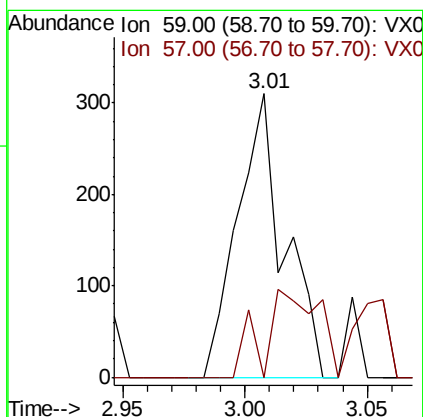
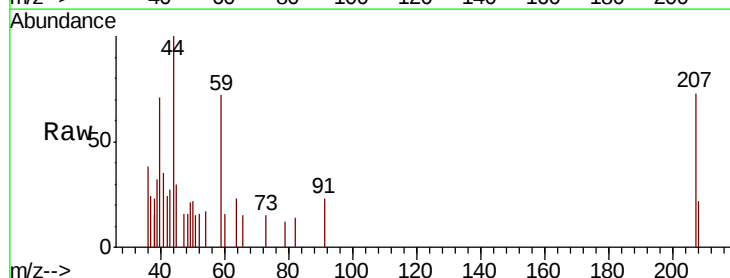
Instrument :
MSVOA_X
ClientSampleId :
200715087-01-TRIP-BLANK

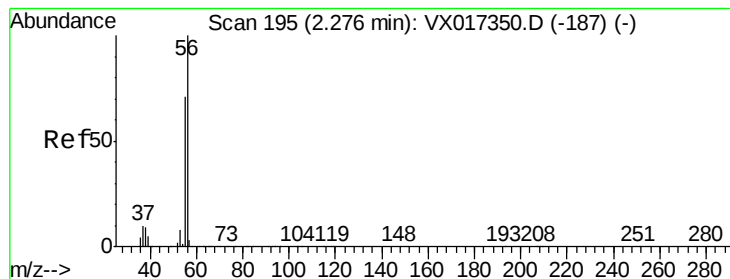
Tot Ion:142 Resp: 710
Ion Ratio Lower Upper
142 100
127 45.2 36.8 55.2
141 7.5 11.4 17.0#



#11
Tert butyl alcohol
Concen: 0.769 ug/l
RT: 3.01 min Scan# 315
Delta R.T. -0.01 min
Lab File: VX017389.D
Acq: 16 Jul 2020 14:34

Tgt Ion: 59 Resp: 411
Ion Ratio Lower Upper
59 100
57 36.3 8.3 12.5#





#13

Acrolein

Concen: 1.566 ug/l

RT: 2.28 min Scan# 195

Delta R.T. 0.00 min

Lab File: VX017389.D

Acq: 16 Jul 2020 14:34

Instrument :

MSVOA_X

ClientSampleId :

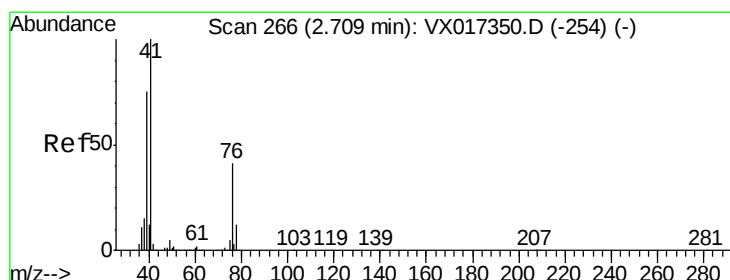
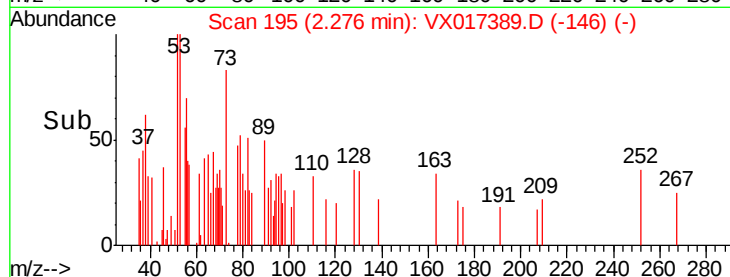
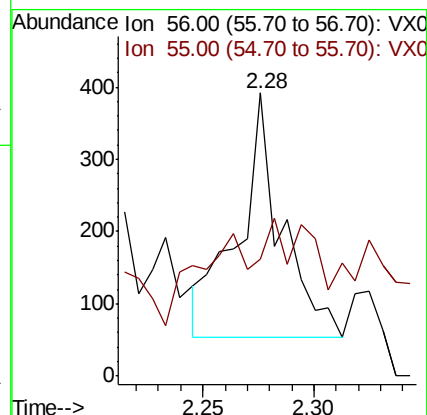
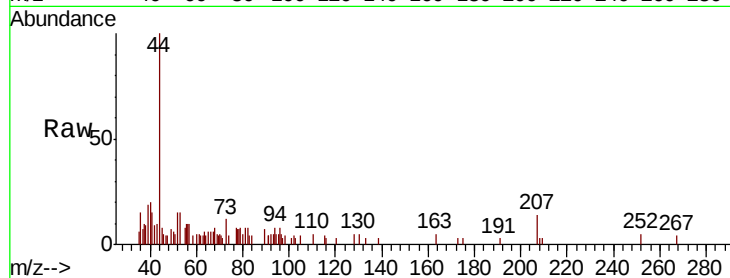
200715087-01-TRIP-BLANK

Tot Ion: 56 Resp: 459

Ion Ratio Lower Upper

56 100

55 43.1 57.1 85.7#



#14

Allyl chloride

Concen: 0.283 ug/l

RT: 2.71 min Scan# 266

Delta R.T. 0.00 min

Lab File: VX017389.D

Acq: 16 Jul 2020 14:34

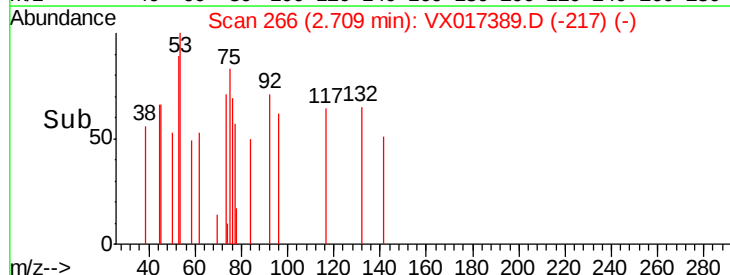
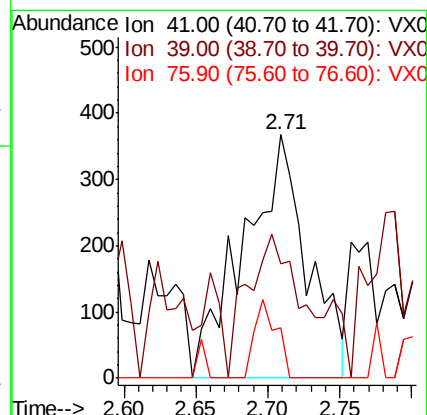
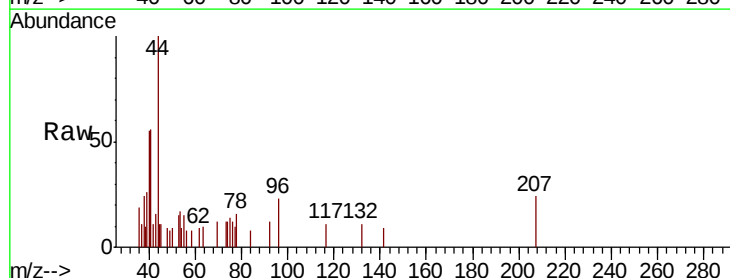
Tgt Ion: 41 Resp: 1128

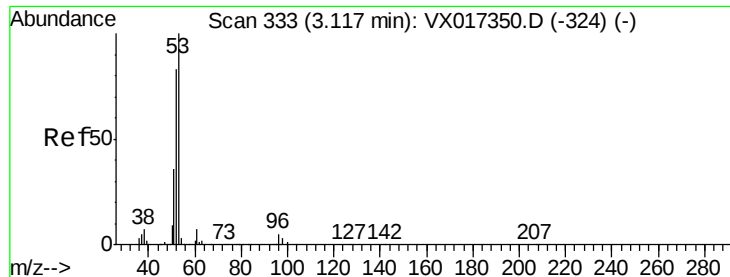
Ion Ratio Lower Upper

41 100

39 47.4 53.0 79.4#

76 11.0 28.2 42.2#





#15

Acrylonitrile

Concen: 0.649 ug/l

RT: 3.12 min Scan# 334

Delta R.T. 0.01 min

Lab File: VX017389.D

Acq: 16 Jul 2020 14:34

Instrument :

MSVOA_X

ClientSampleId :

200715087-01-TRIP-BLANK

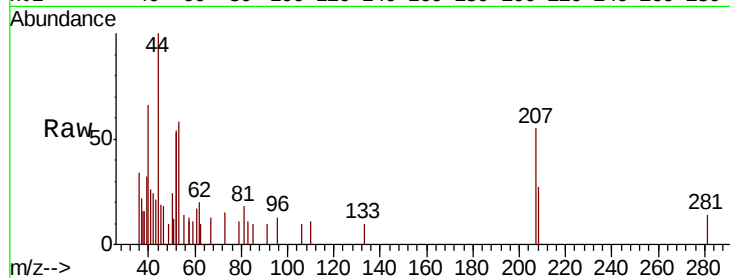
Tot Ion: 53 Resp: 841

Ion Ratio Lower Upper

53 100

52 65.0 65.8 98.6#

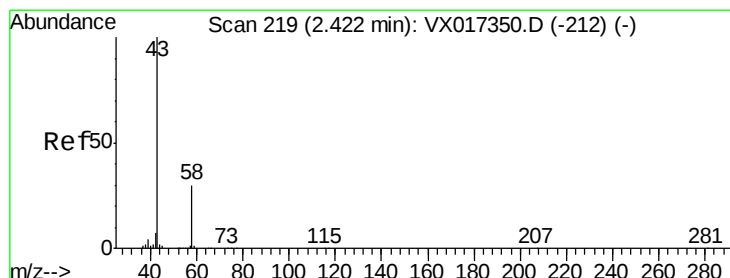
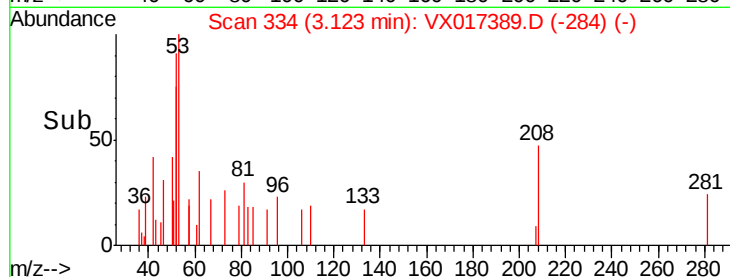
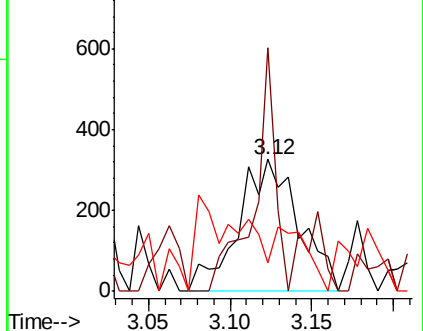
51 26.3 29.2 43.8#



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: 28.199 ug/l

RT: 2.42 min Scan# 219

Delta R.T. 0.00 min

Lab File: VX017389.D

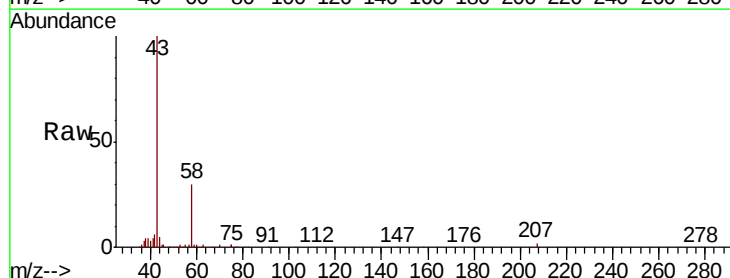
Acq: 16 Jul 2020 14:34

Tgt Ion: 43 Resp: 31922

Ion Ratio Lower Upper

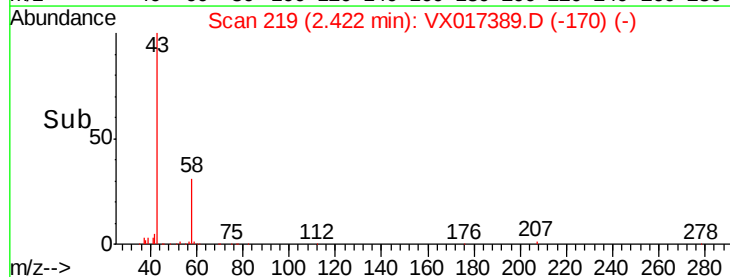
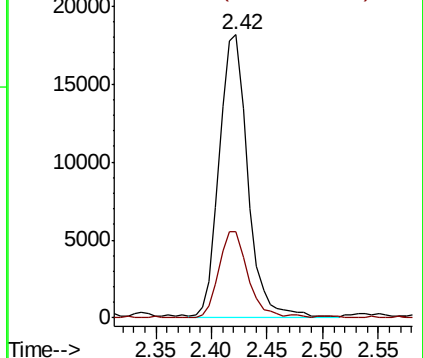
43 100

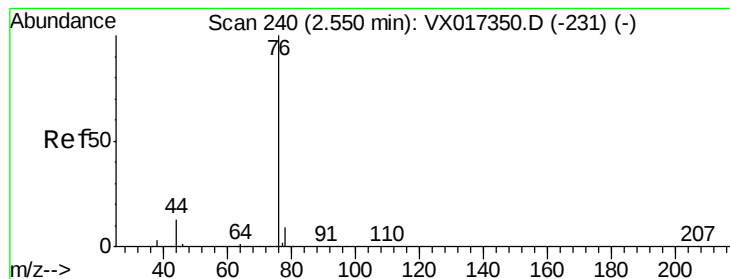
58 30.5 24.2 36.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 0.347 ug/l

RT: 2.55 min Scan# 240

Delta R.T. 0.00 min

Lab File: VX017389.D

Acq: 16 Jul 2020 14:34

Instrument :

MSVOA_X

ClientSampleId :

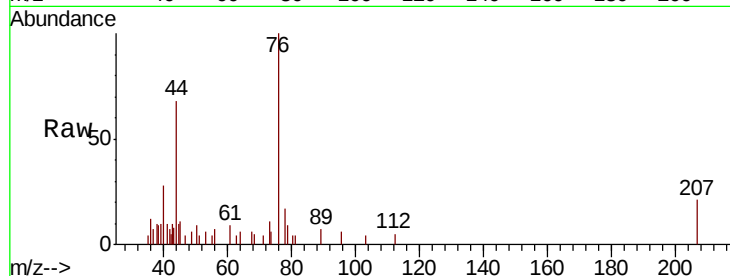
200715087-01-TRIP-BLANK

Tot Ion: 76 Resp: 2329

Ion Ratio Lower Upper

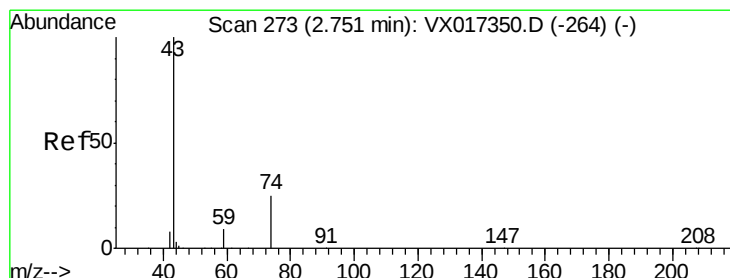
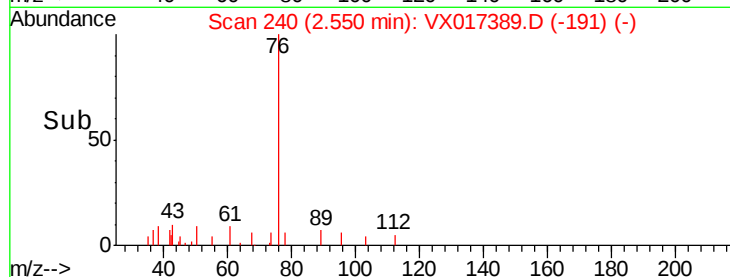
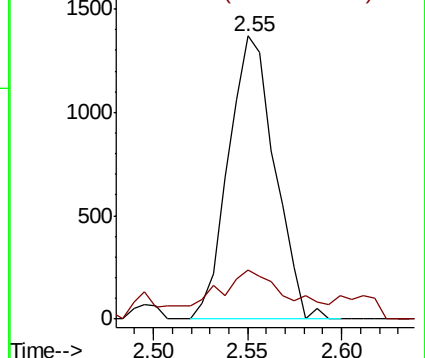
76 100

78 21.4 7.3 10.9#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#18

Methyl Acetate

Concen: 0.416 ug/l

RT: 2.75 min Scan# 272

Delta R.T. -0.01 min

Lab File: VX017389.D

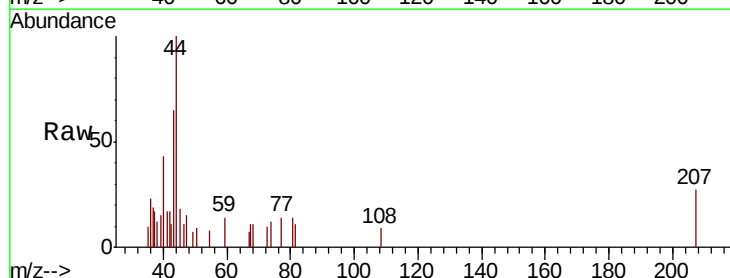
Acq: 16 Jul 2020 14:34

Tgt Ion: 43 Resp: 1164

Ion Ratio Lower Upper

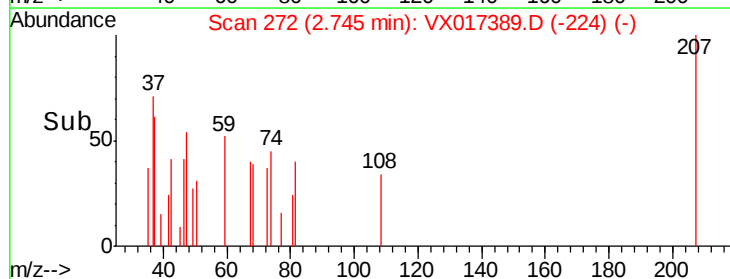
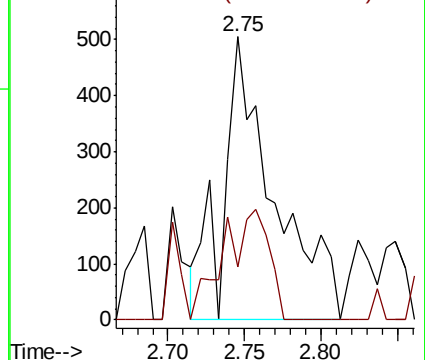
43 100

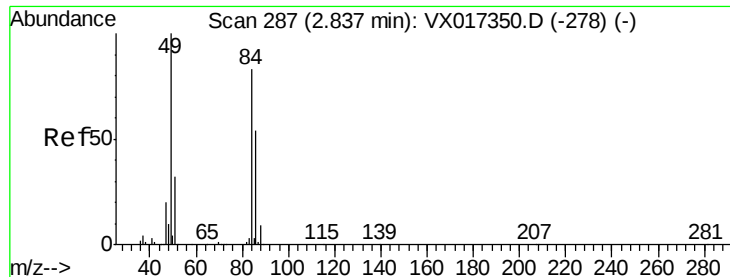
74 35.0 19.4 29.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

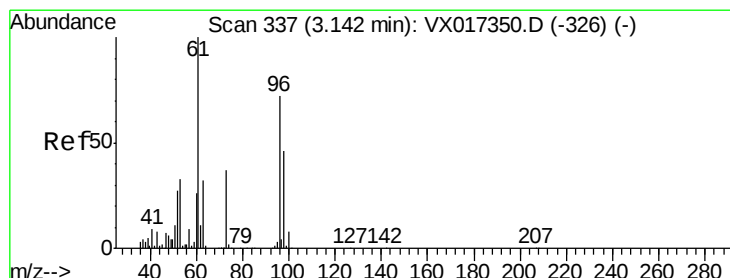
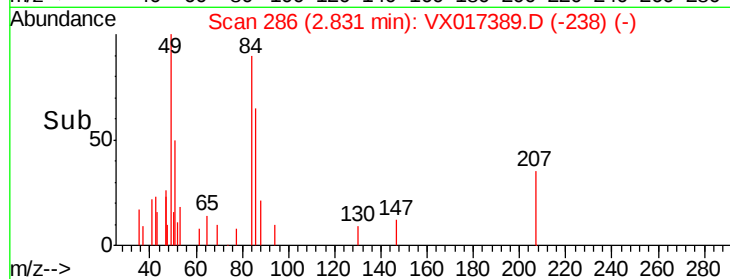
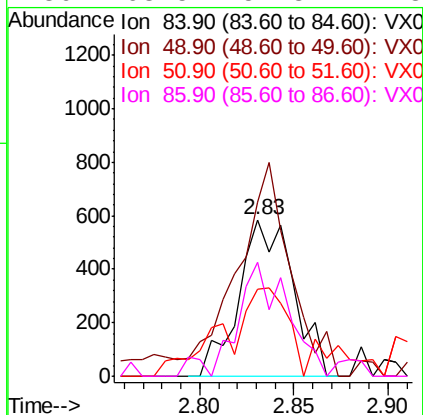
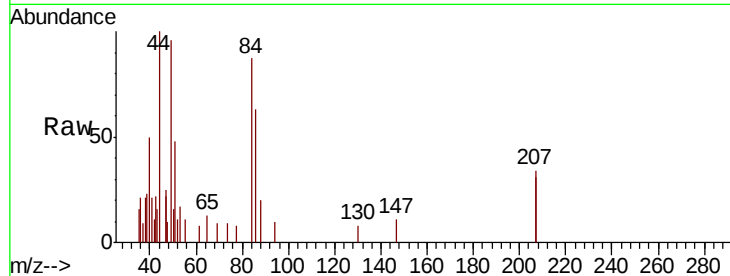




#20
Methvlene Chloride
Concen: 0.424 ug/l
RT: 2.83 min Scan# 286
Delta R.T. -0.01 min
Lab File: VX017389.D
Acq: 16 Jul 2020 14:34

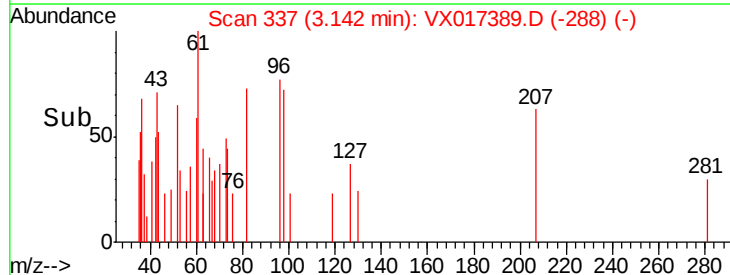
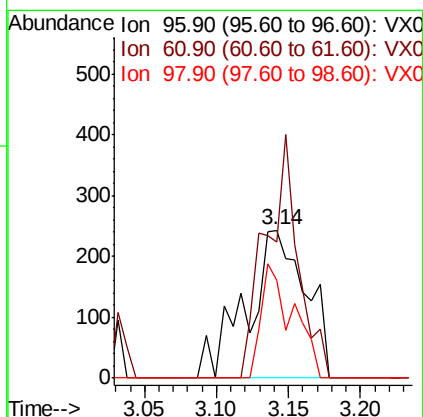
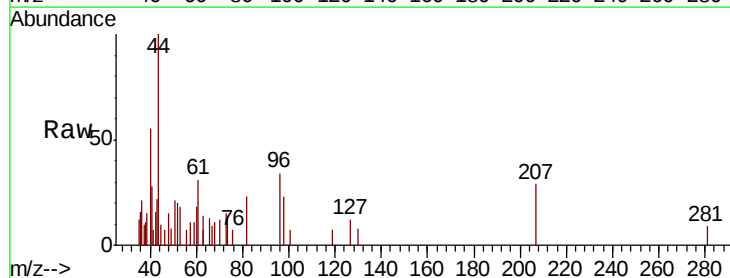
Instrument :
MSVOA_X
ClientSampleId :
200715087-01-TRIP-BLANK

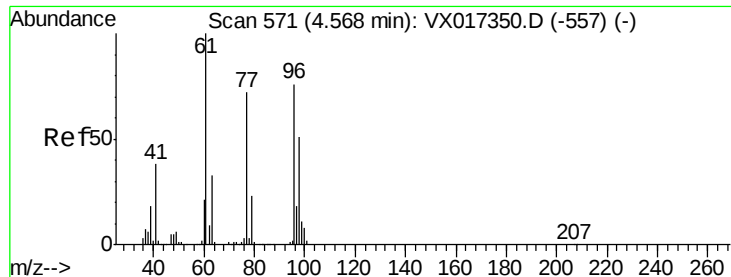
Tot Ion:	84	Resp:	1172
Ion	Ratio	Lower	Upper
84	100		
49	111.1	95.8	143.8
51	35.7	31.0	46.4
86	63.5	51.8	77.8



#21
trans-1,2-Dichloroethene
Concen: 0.264 ug/l
RT: 3.14 min Scan# 337
Delta R.T. 0.00 min
Lab File: VX017389.D
Acq: 16 Jul 2020 14:34

Tgt Ion:	96	Resp:	695
Ion	Ratio	Lower	Upper
96	100		
61	92.2	111.1	166.7#
98	66.3	51.4	77.0



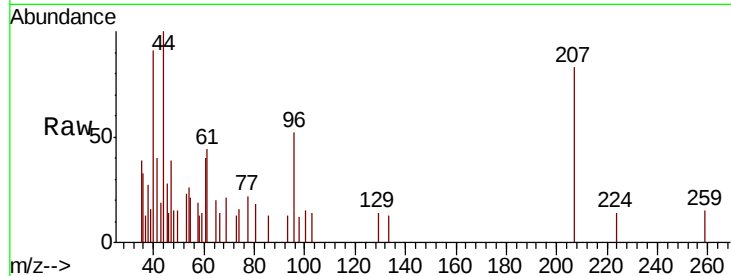


#27

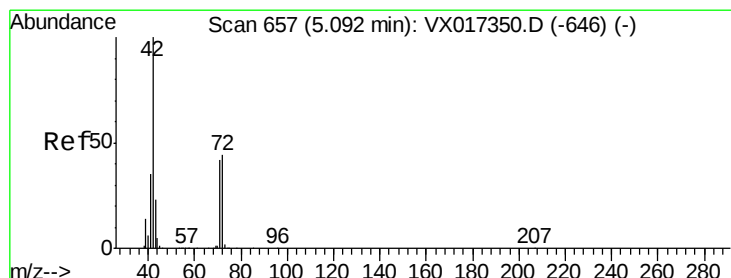
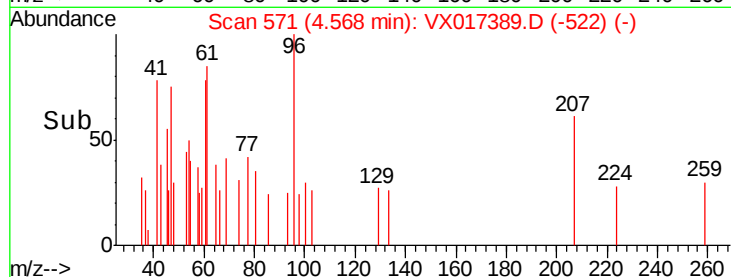
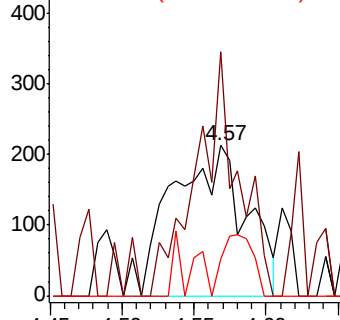
cis-1,2-Dichloroethene
 Concen: 0.265 ug/l
 RT: 4.57 min Scan# 571
 Delta R.T. 0.00 min
 Lab File: VX017389.D
 Acq: 16 Jul 2020 14:34

Instrument :
 MSVOA_X
 ClientSampleId :
 200715087-01-TRIP-BLANK

Tot Ion	Ratio	Lower	Upper
96	100		
61	91.5	0.0	281.2
98	17.0	0.0	131.4



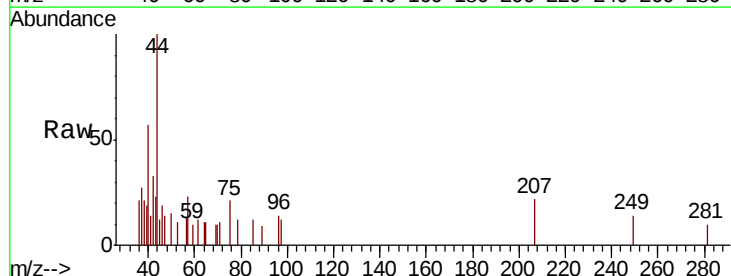
Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0



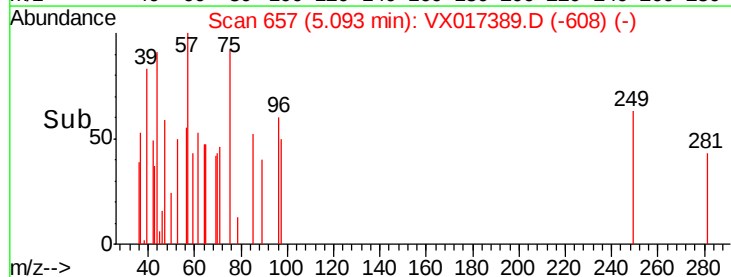
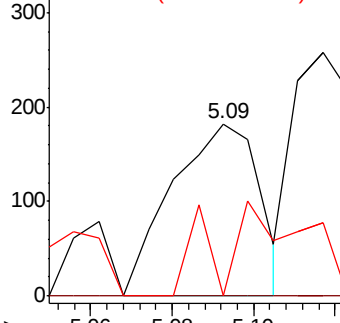
#29

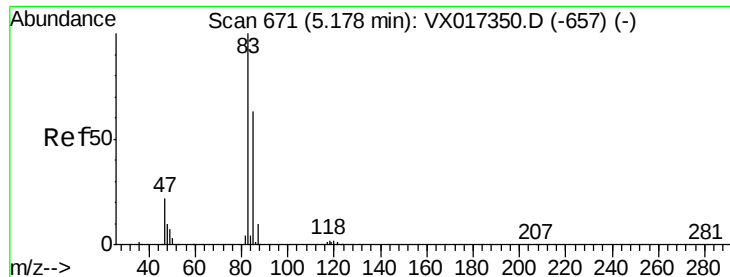
Tetrahydrofuran
 Concen: 0.235 ug/l
 RT: 5.09 min Scan# 657
 Delta R.T. 0.00 min
 Lab File: VX017389.D
 Acq: 16 Jul 2020 14:34

Tgt Ion	Ratio	Lower	Upper
42	100		
72	0.0	37.2	55.8#
71	40.7	34.4	51.6



Abundance Ion 42.00 (41.70 to 42.70): VX0
 Ion 72.00 (71.70 to 72.70): VX0
 Ion 71.00 (70.70 to 71.70): VX0





#30

Chloroform

Concen: 0.443 ug/l

RT: 5.18 min Scan# 671

Delta R.T. 0.00 min

Lab File: VX017389.D

Acq: 16 Jul 2020 14:34

Instrument :

MSVOA_X

ClientSampleId :

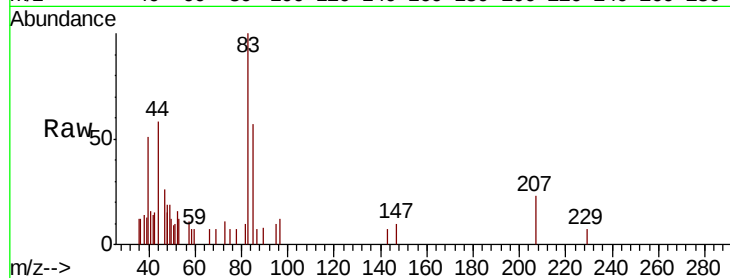
200715087-01-TRIP-BLANK

Tot Ion: 83 Resp: 2129

Ion Ratio Lower Upper

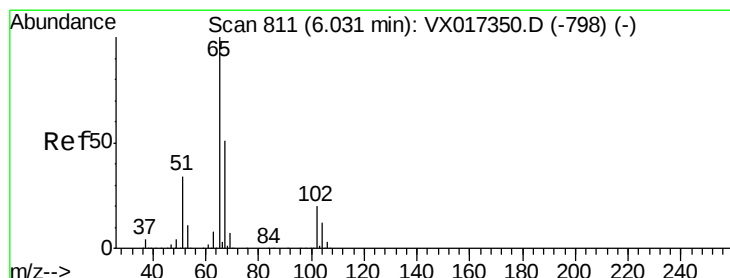
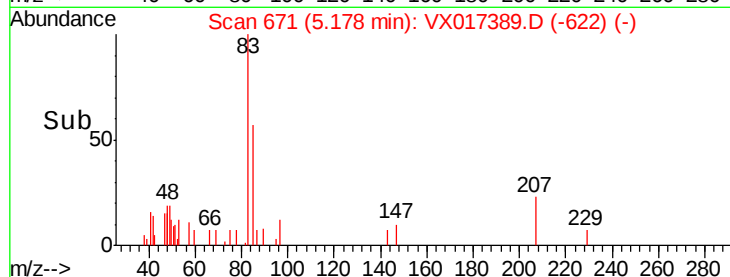
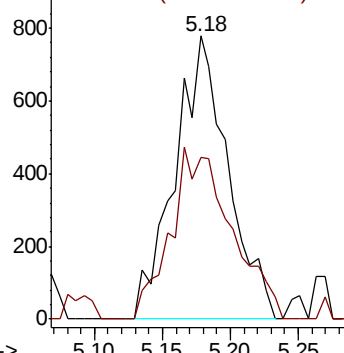
83 100

85 57.1 50.2 75.4



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0



#33

1,2-Dichloroethane-d4

Concen: 54.578 ug/l

RT: 6.03 min Scan# 811

Delta R.T. 0.00 min

Lab File: VX017389.D

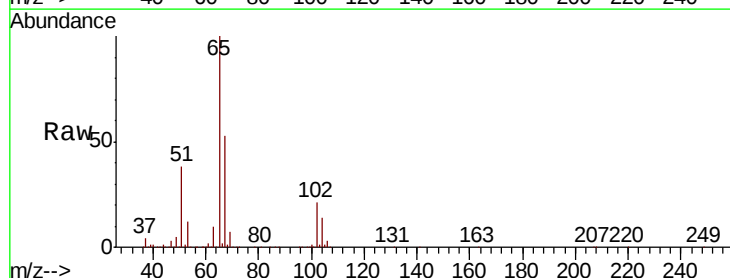
Acq: 16 Jul 2020 14:34

Tgt Ion: 65 Resp: 173181

Ion Ratio Lower Upper

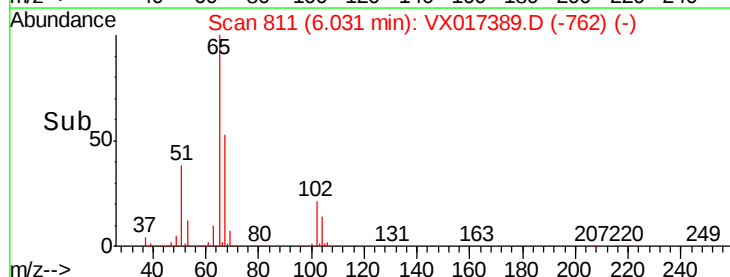
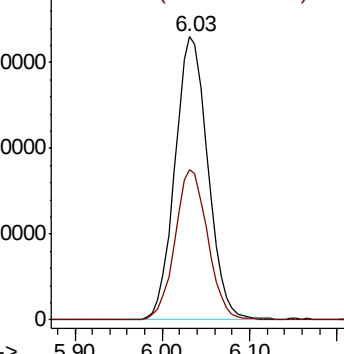
65 100

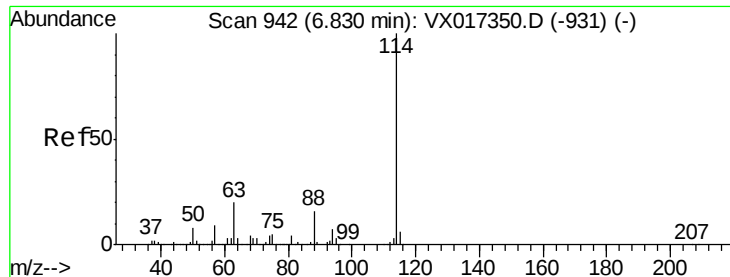
67 52.7 0.0 101.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VX017389.D

Acq: 16 Jul 2020 14:34

Instrument :

MSVOA_X

ClientSampleId :

200715087-01-TRIP-BLANK

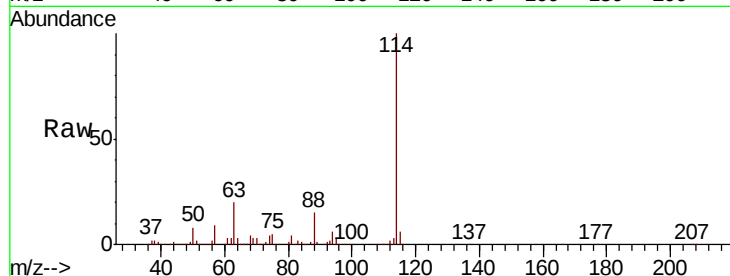
Tot Ion:114 Resp: 437255

Ion Ratio Lower Upper

114 100

63 20.1 0.0 40.0

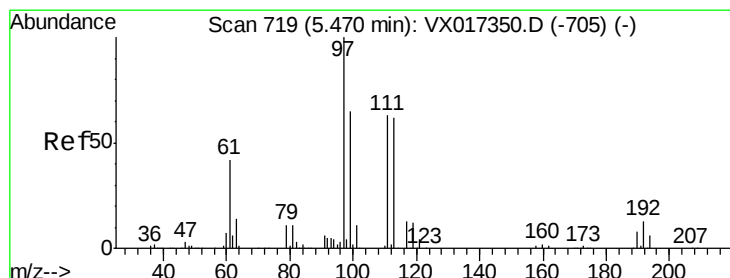
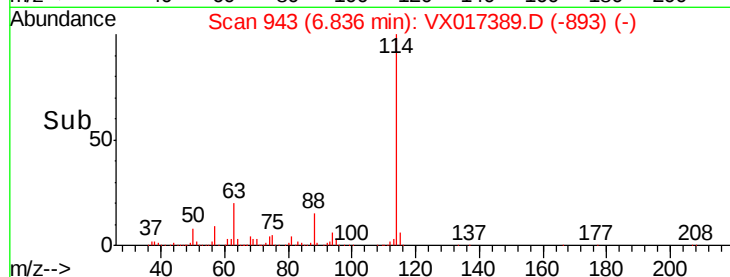
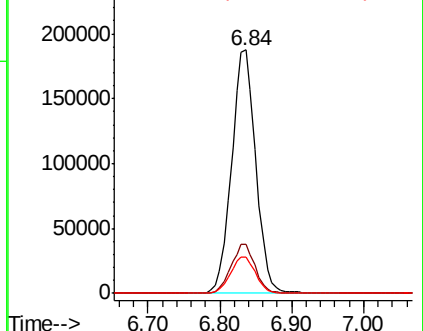
88 14.7 0.0 32.8



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



#35

Dibromofluoromethane

Concen: 51.635 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.01 min

Lab File: VX017389.D

Acq: 16 Jul 2020 14:34

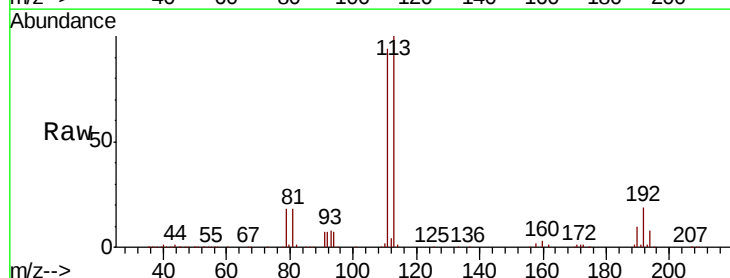
Tgt Ion:113 Resp: 152086

Ion Ratio Lower Upper

113 100

111 100.8 82.4 123.6

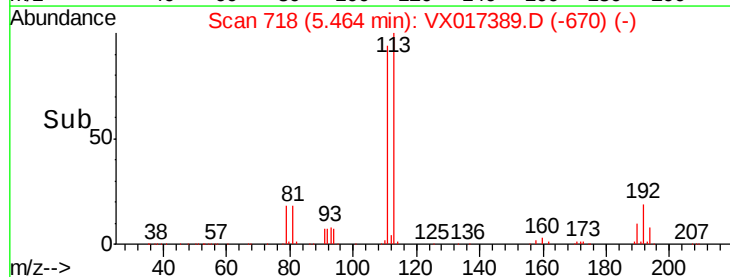
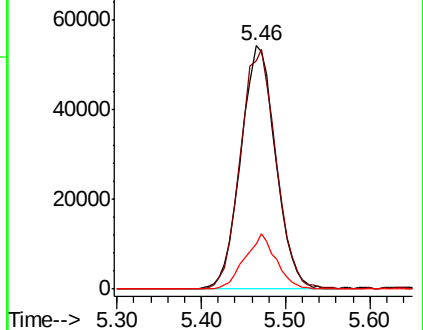
192 20.4 17.2 25.8

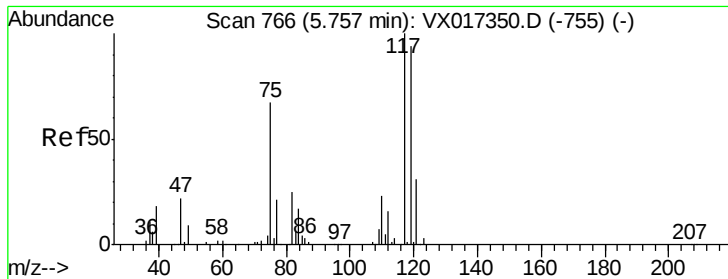


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#38

Carbon Tetrachloride

Concen: 5.283 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX017389.D

Acq: 16 Jul 2020 14:34

Instrument :

MSVOA_X

ClientSampleId :

200715087-01-TRIP-BLANK

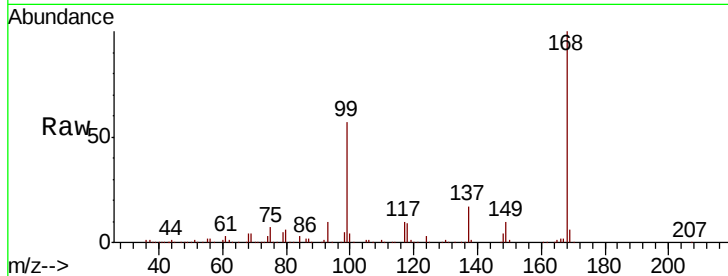
Tot Ion:117 Resp: 24879

Ion Ratio Lower Upper

117 100

119 8.1 74.7 112.1#

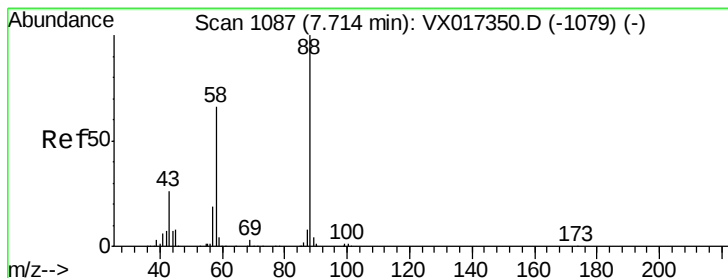
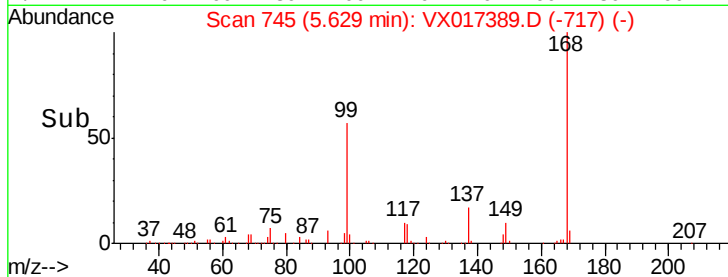
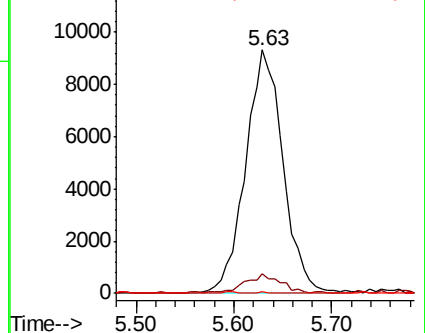
121 0.6 24.5 36.7#



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



#49

1,4-Dioxane

Concen: 0.797 ug/l

RT: 7.71 min Scan# 1087

Delta R.T. 0.00 min

Lab File: VX017389.D

Acq: 16 Jul 2020 14:34

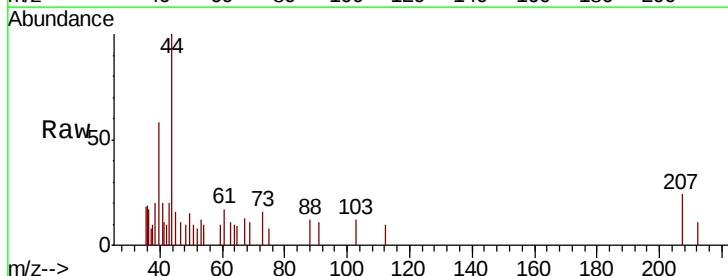
Tgt Ion: 88 Resp: 52

Ion Ratio Lower Upper

88 100

43 730.8 25.6 38.4#

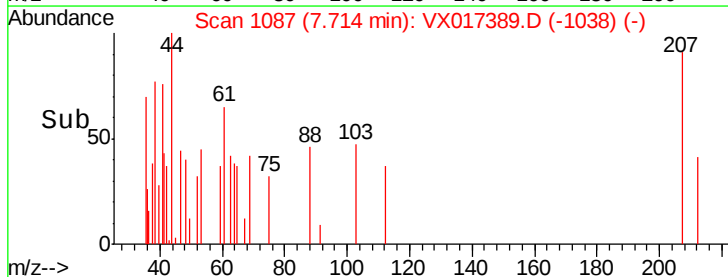
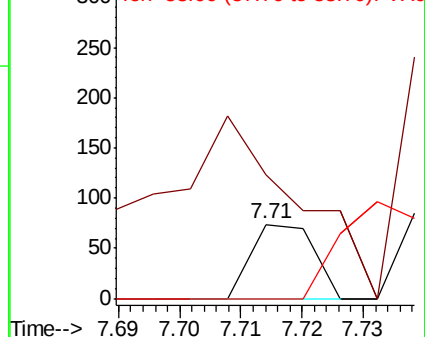
58 0.0 53.9 80.9#

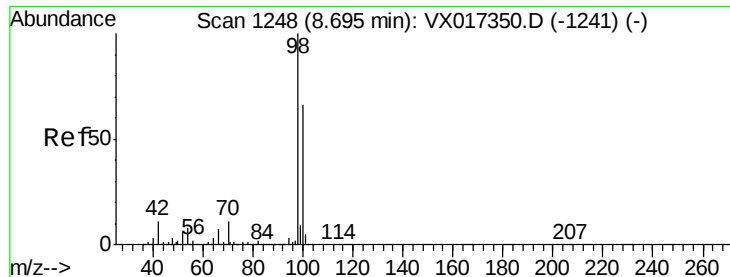


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 51.018 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX017389.D

Acq: 16 Jul 2020 14:34

Instrument :

MSVOA_X

ClientSampleId :

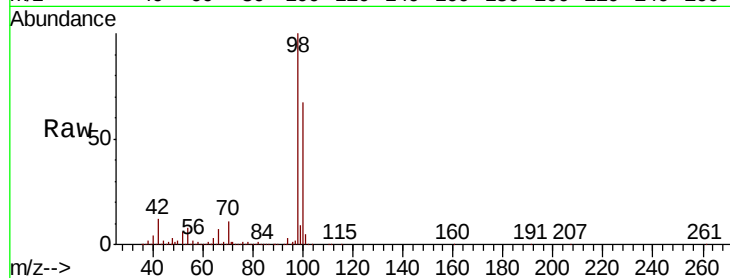
200715087-01-TRIP-BLANK

Tot Ion: 98 Resp: 542047

Ion Ratio Lower Upper

98 100

100 66.2 53.4 80.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

8.70

400000

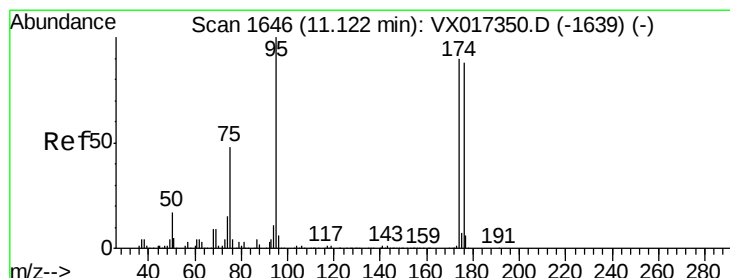
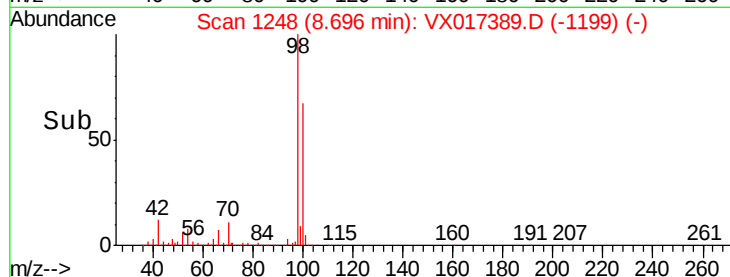
300000

200000

100000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 51.059 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX017389.D

Acq: 16 Jul 2020 14:34

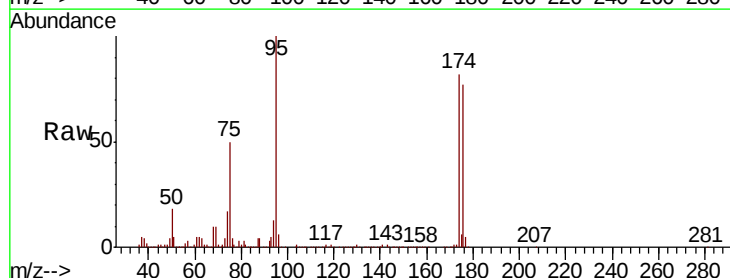
Tgt Ion: 95 Resp: 215483

Ion Ratio Lower Upper

95 100

174 83.0 0.0 175.8

176 78.9 0.0 164.6



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

11.12

200000

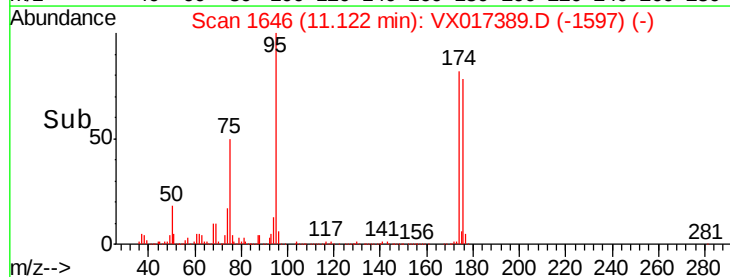
150000

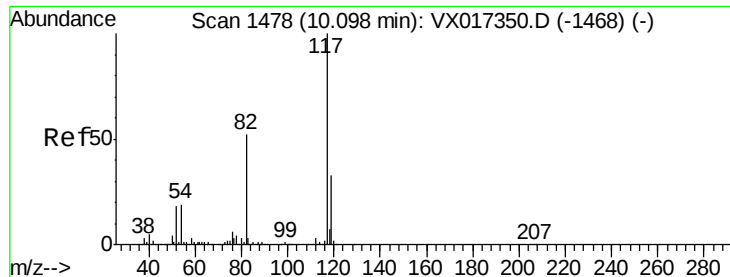
100000

50000

0

Time-->

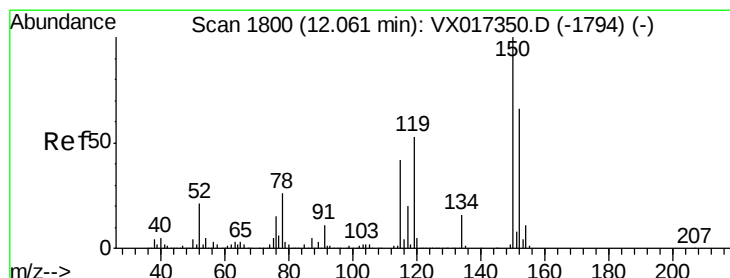
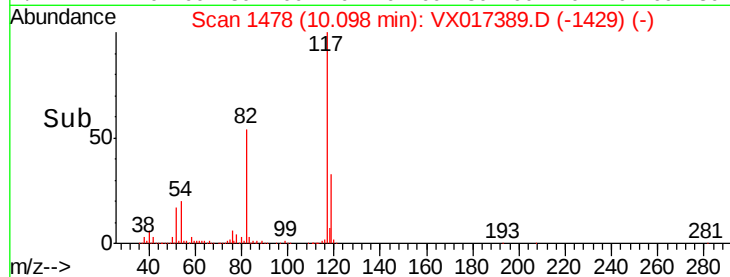
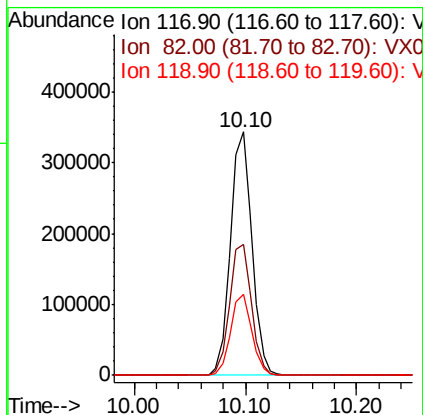
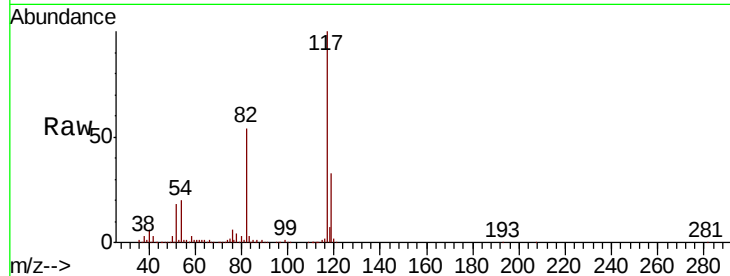




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. 0.00 min
Lab File: VX017389.D
Acq: 16 Jul 2020 14:34

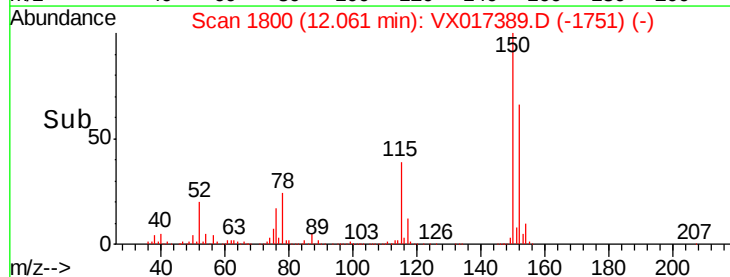
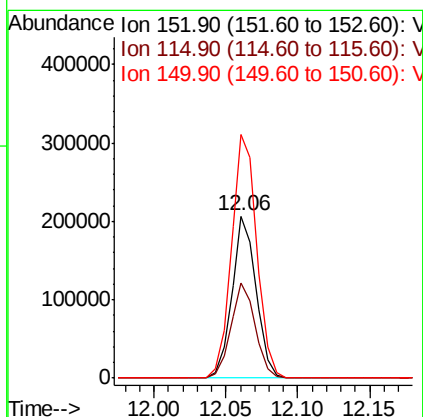
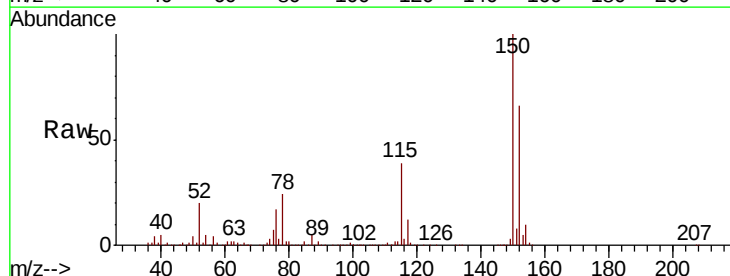
Instrument :
MSVOA_X
ClientSampleId :
200715087-01-TRIP-BLANK

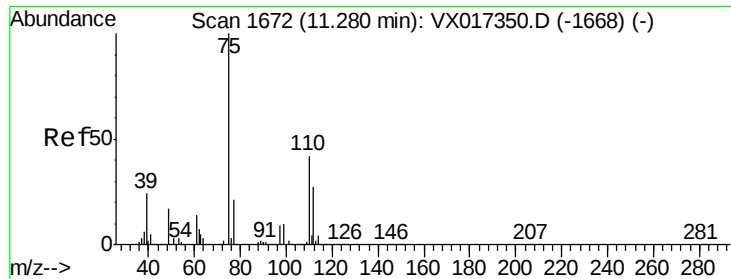
Tot Ion:117 Resp: 458696
Ion Ratio Lower Upper
117 100
82 53.6 42.0 63.0
119 33.1 26.3 39.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. 0.00 min
Lab File: VX017389.D
Acq: 16 Jul 2020 14:34

Tgt Ion:152 Resp: 242541
Ion Ratio Lower Upper
152 100
115 59.3 39.9 119.7
150 157.5 0.0 343.4





#76

1,2,3-Trichloropropane

Concen: 24.188 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017389.D

Acq: 16 Jul 2020 14:34

Instrument :

MSVOA_X

ClientSampleId :

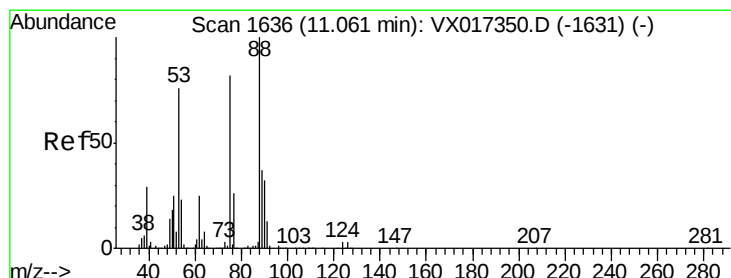
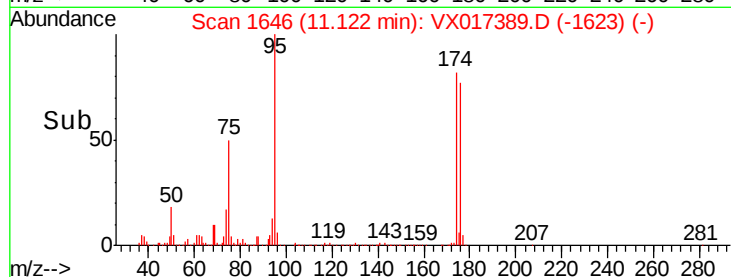
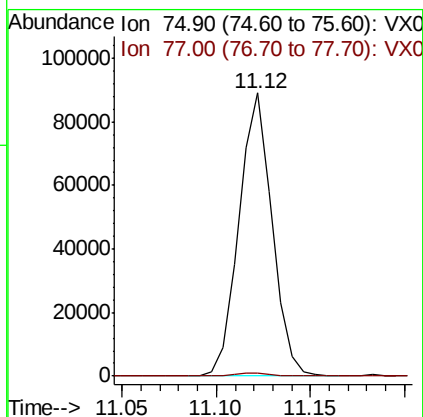
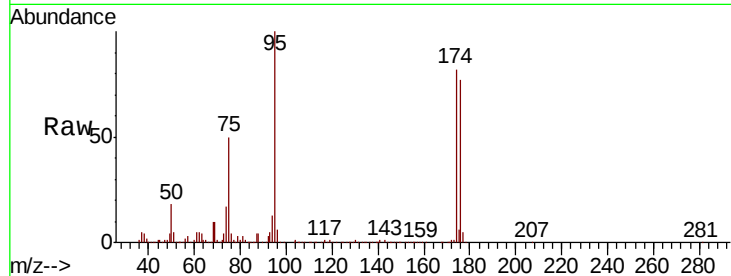
200715087-01-TRIP-BLANK

Tot Ion: 75 Resp: 108405

Ion Ratio Lower Upper

75 100

77 1.3 20.3 60.9#



#81

trans-1,4-Dichloro-2-butene

Concen: 61.360 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX017389.D

Acq: 16 Jul 2020 14:34

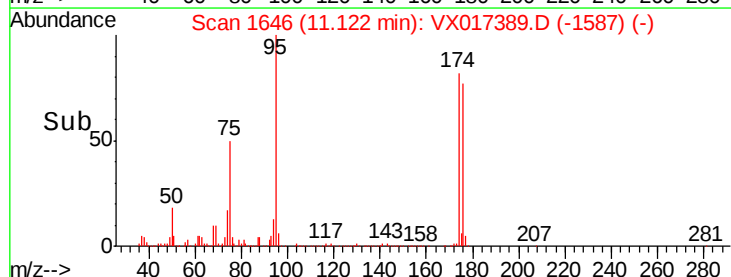
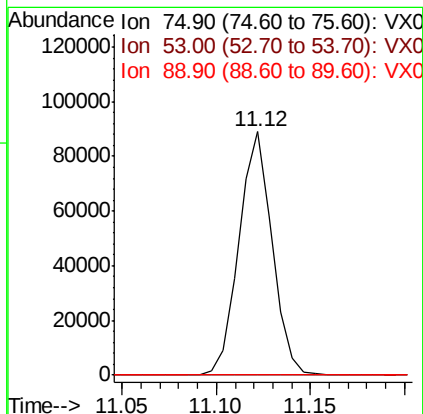
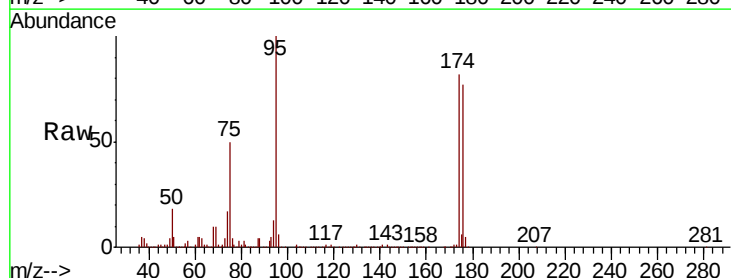
Tgt Ion: 75 Resp: 108405

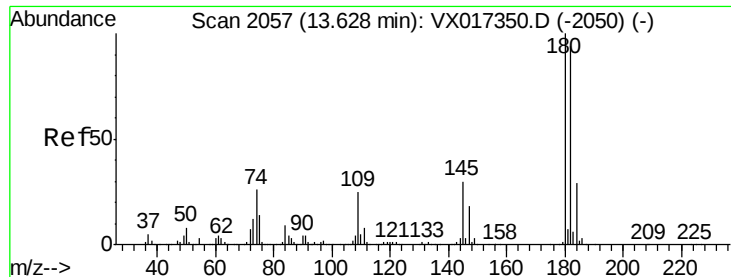
Ion Ratio Lower Upper

75 100

53 0.6 76.5 114.7#

89 0.1 38.1 57.1#

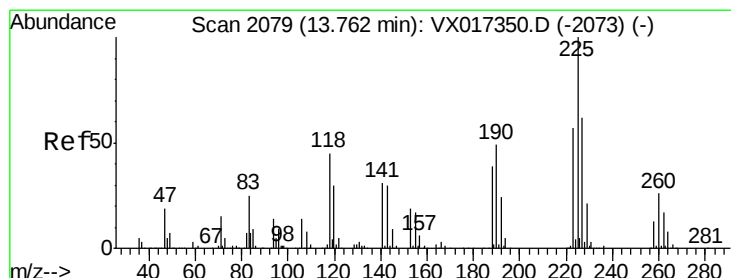
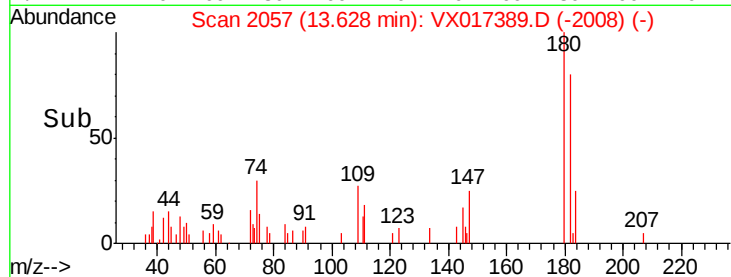
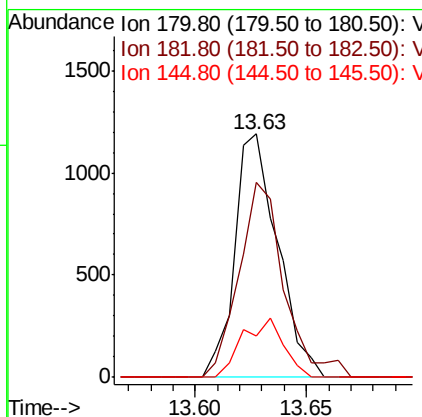
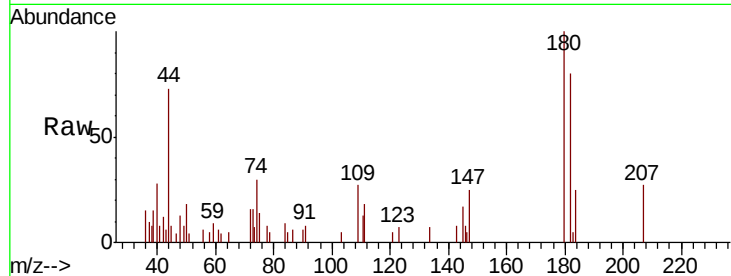




#93
 1,2,4-Trichlorobenzene
 Concen: 0.317 ug/l
 RT: 13.63 min Scan# 2057
 Delta R.T. 0.00 min
 Lab File: VX017389.D
 Acq: 16 Jul 2020 14:34

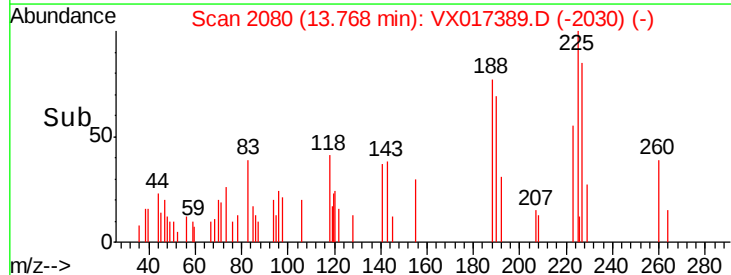
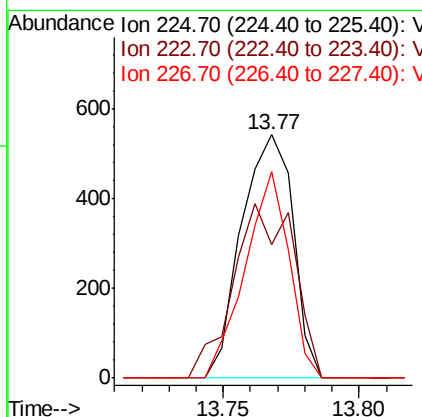
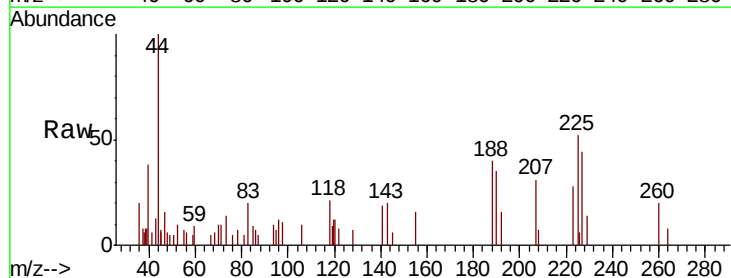
Instrument :
 MSVOA_X
 ClientSampleId :
 200715087-01-TRIP-BLANK

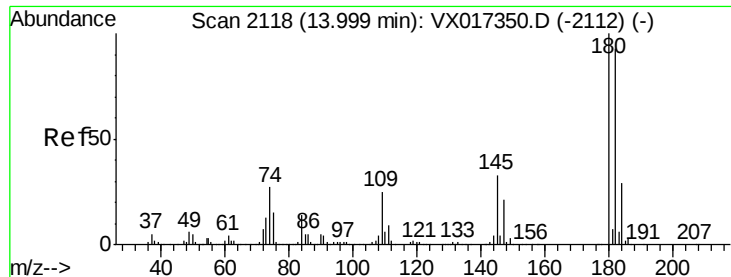
Tot Ion:180 Resp: 1600
 Ion Ratio Lower Upper
 180 100
 182 84.1 48.4 145.0
 145 23.0 15.3 45.8



#94
 Hexachlorobutadiene
 Concen: 0.345 ug/l
 RT: 13.77 min Scan# 2080
 Delta R.T. 0.01 min
 Lab File: VX017389.D
 Acq: 16 Jul 2020 14:34

Tgt Ion:225 Resp: 712
 Ion Ratio Lower Upper
 225 100
 223 83.7 31.3 93.8
 227 72.3 31.6 95.0





#96
 1,2,3-Trichlorobenzene
 Concen: 0.240 ug/l
 RT: 14.01 min Scan# 2119
 Delta R.T. 0.01 min
 Lab File: VX017389.D
 Acq: 16 Jul 2020 14:34

Instrument :
 MSVOA_X
 ClientSampleId :
 200715087-01-TRIP-BLANK

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.0	48.8	146.3
145	32.3	16.6	49.7

