

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX072919\
 Data File : VX011165.D
 Acq On : 29 Jul 2019 23:59
 Operator : JC/SP
 Sample : K4026-14
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 Z3-TB-2019-3

Quant Time: Jul 30 05:12:27 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071619W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 24 05:39:23 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	182845	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	292599	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	275655	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	126922	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	101595	52.23	ug/l	0.00
Spiked Amount			Recovery	=	104.46%	
35) Dibromofluoromethane	5.50	113	92560	49.84	ug/l	0.00
Spiked Amount			Recovery	=	99.68%	
50) Toluene-d8	8.71	98	356150	51.13	ug/l	0.00
Spiked Amount			Recovery	=	102.26%	
62) 4-Bromofluorobenzene	11.13	95	124107	48.47	ug/l	0.00
Spiked Amount			Recovery	=	96.94%	

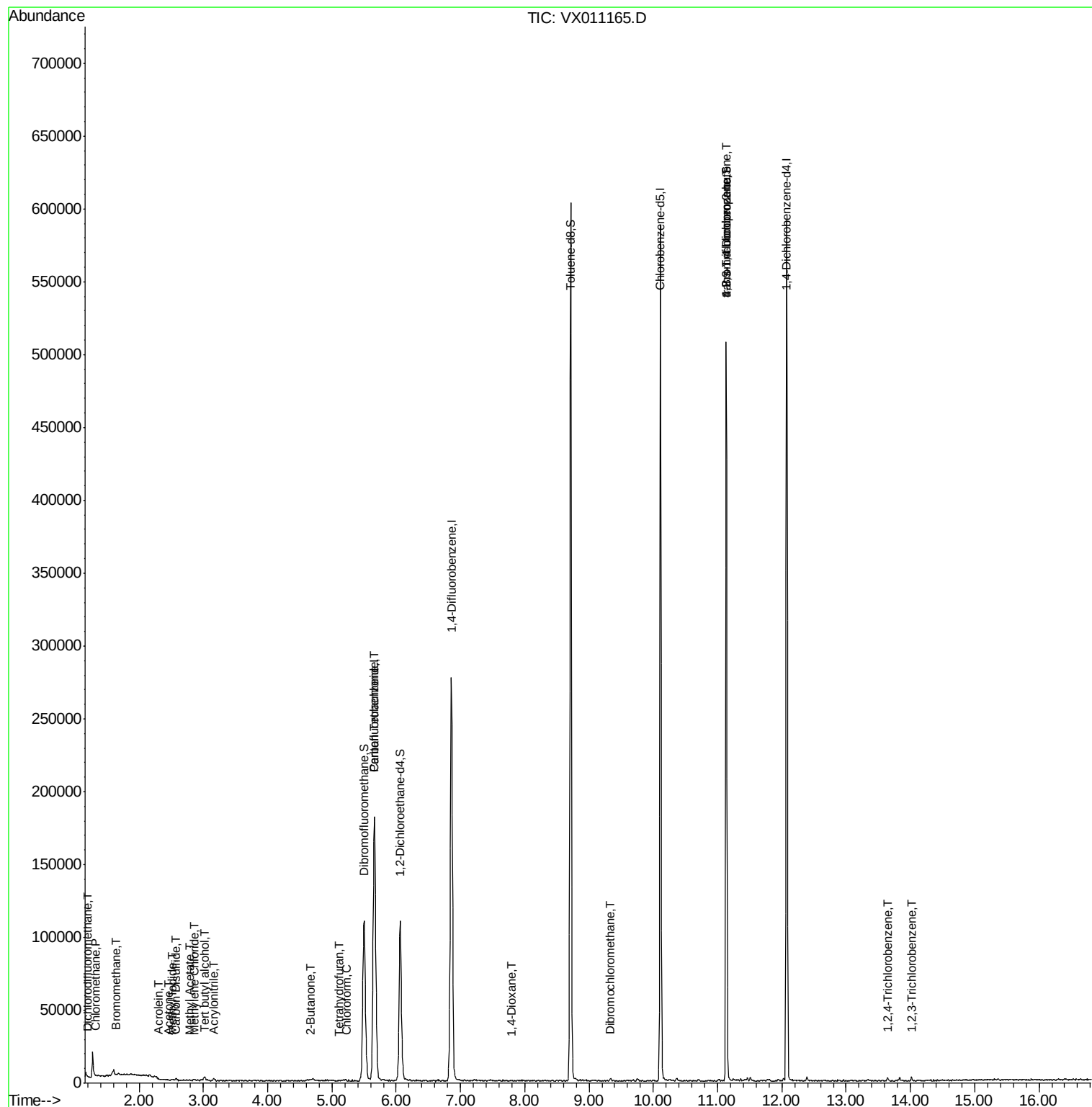
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	246	0.671	ug/l	86
3) Chloromethane	1.34	50	580	0.345	ug/l #	71
5) Bromomethane	1.65	94	572	0.592	ug/l #	61
10) Methyl Iodide	2.51	142	893	0.411	ug/l #	91
11) Tert butyl alcohol	3.02	59	1474	3.254	ug/l #	80
13) Acrolein	2.30	56	141	0.539	ug/l	93
15) Acrylonitrile	3.16	53	525	0.574	ug/l #	61
16) Acetone	2.45	43	491	0.559	ug/l #	68
17) Carbon Disulfide	2.57	76	1170	0.280	ug/l #	63
18) Methyl Acetate	2.78	43	420	0.210	ug/l #	82
20) Methylene Chloride	2.86	84	400	0.215	ug/l #	44
25) 2-Butanone	4.67	43	270	0.214	ug/l #	46
29) Tetrahydrofuran	5.12	42	209	0.262	ug/l #	29
30) Chloroform	5.23	83	694	0.222	ug/l	95
38) Carbon Tetrachloride	5.66	117	17183	6.861	ug/l #	18
49) 1,4-Dioxane	7.81	88	19	0.345	ug/l #	1
60) Dibromochloromethane	9.34	129	180	2.602	ug/l #	11
76) 1,2,3-Trichloropropane	11.13	75	63258	27.619	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	63258	68.385	ug/l #	11
93) 1,2,4-Trichlorobenzene	13.65	180	631	0.229	ug/l	79
96) 1,2,3-Trichlorobenzene	14.02	180	591	0.215	ug/l	91

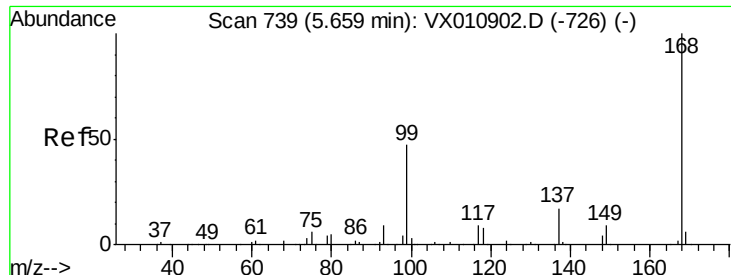
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Jul 24 05:39:23 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX011165.D

Acq: 29 Jul 2019 23:59

Instrument :

MSVOA_X

ClientSampleId :

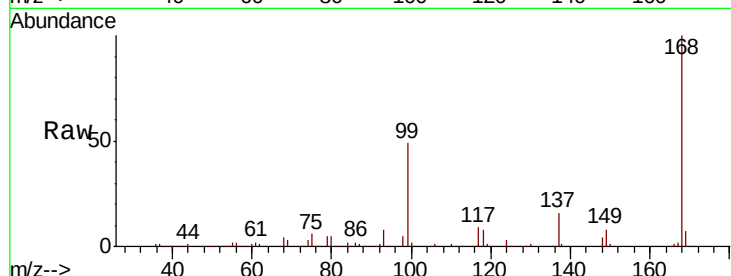
Z3-TB-2019-3

Tot Ion:168 Resp: 182845

Ion Ratio Lower Upper

168 100

99 49.2 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

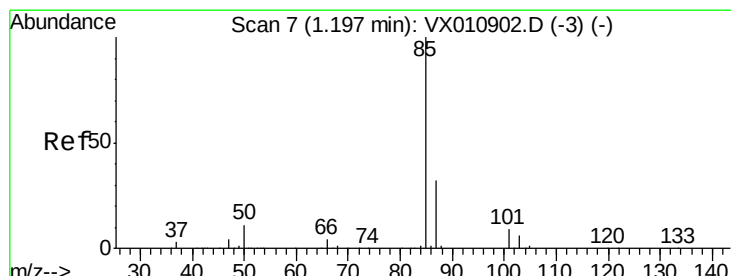
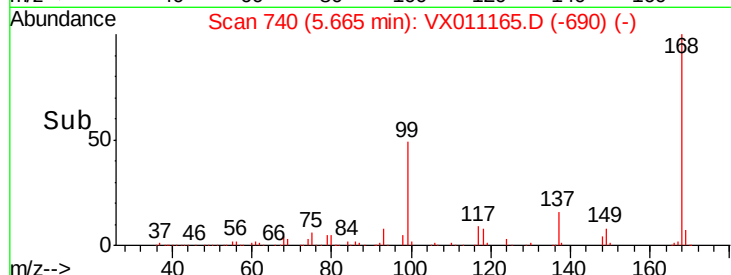
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.671 ug/l

RT: 1.20 min Scan# 8

Delta R.T. 0.01 min

Lab File: VX011165.D

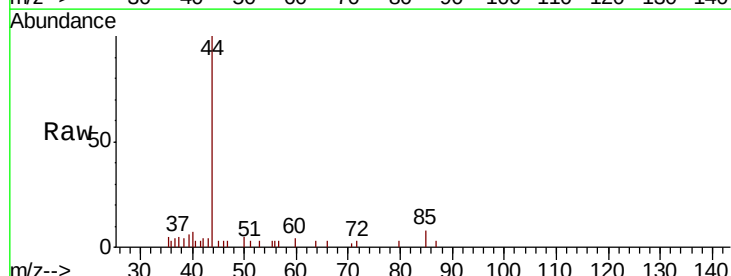
Acq: 29 Jul 2019 23:59

Tgt Ion: 85 Resp: 246

Ion Ratio Lower Upper

85 100

87 39.5 15.9 47.7



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

200

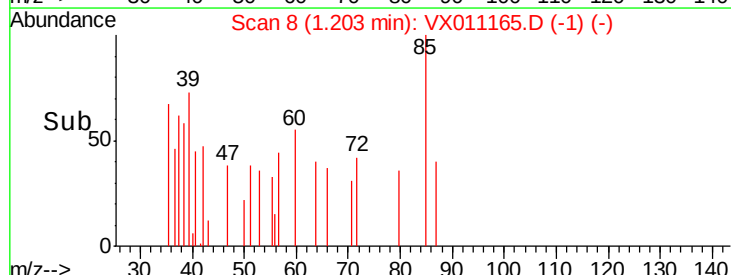
150

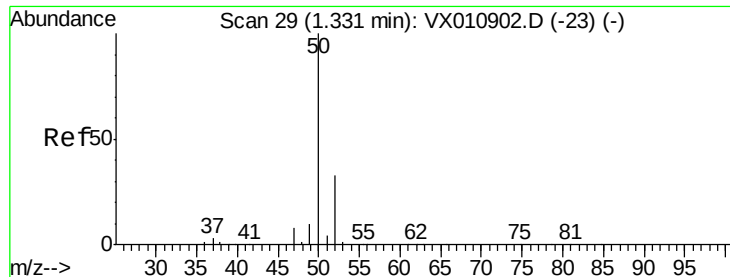
100

50

0

Time--> 1.16 1.18 1.20 1.22 1.24





#3

Chloromethane

Concen: 0.345 ug/l

RT: 1.34 min Scan# 30

Delta R.T. 0.01 min

Lab File: VX011165.D

Acq: 29 Jul 2019 23:59

Instrument :

MSVOA_X

ClientSampleId :

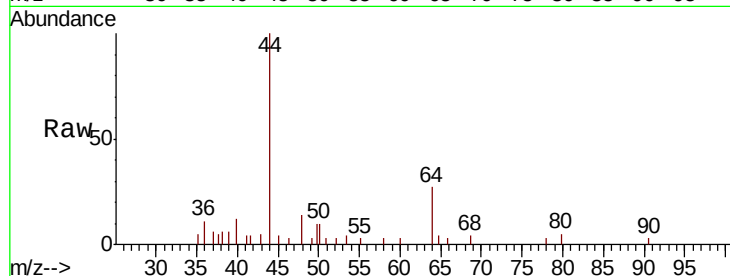
Z3-TB-2019-3

Tot Ion: 50 Resp: 580

Ion Ratio Lower Upper

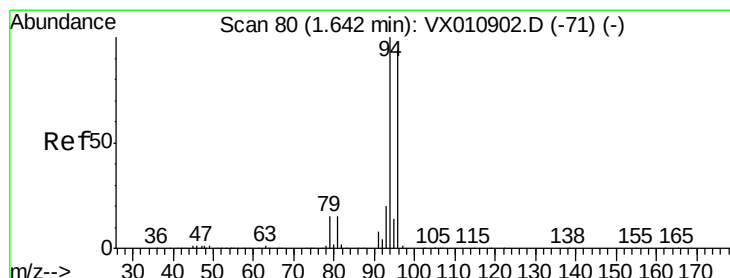
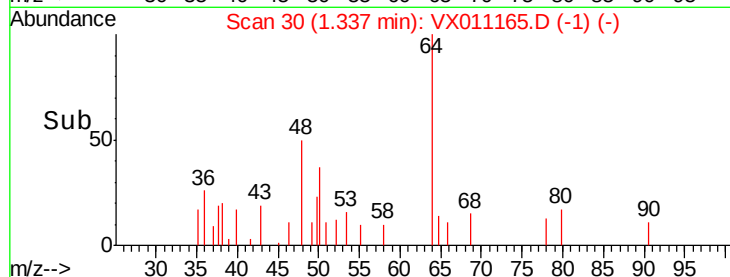
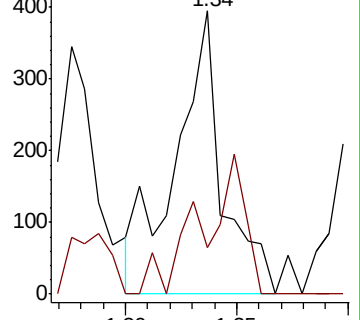
50 100

52 16.5 26.4 39.6#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#5

Bromomethane

Concen: 0.592 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX011165.D

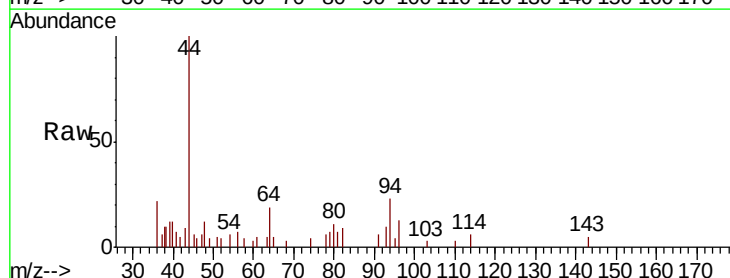
Acq: 29 Jul 2019 23:59

Tgt Ion: 94 Resp: 572

Ion Ratio Lower Upper

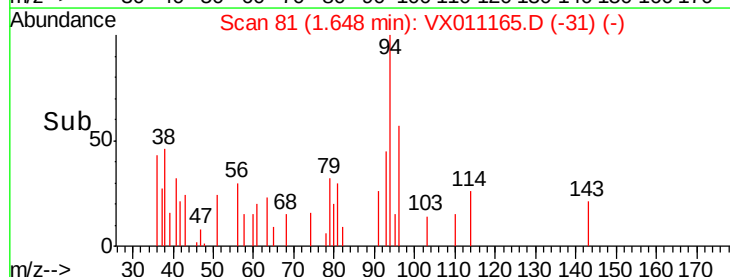
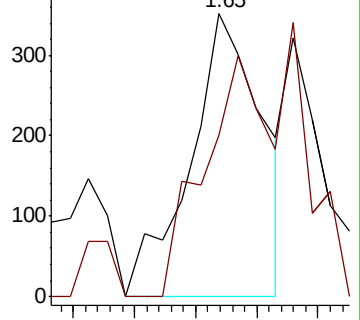
94 100

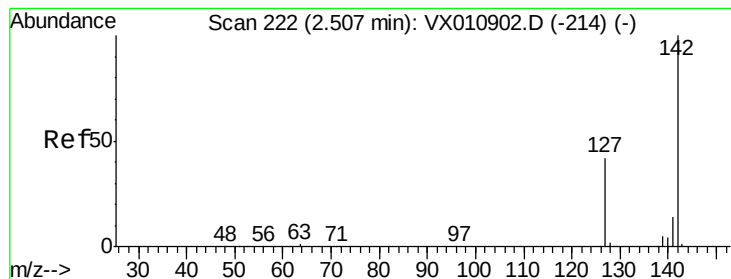
96 57.1 75.6 113.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#10

Methvl Iodide

Concen: 0.411 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.01 min

Lab File: VX011165.D

Acq: 29 Jul 2019 23:59

Instrument :

MSVOA_X

ClientSampled :

Z3-TB-2019-3

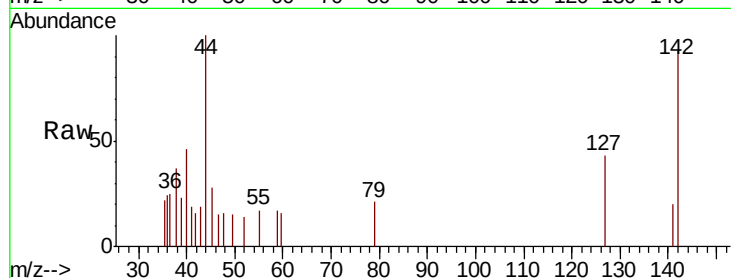
Tot Ion:142 Resp: 893

Ion Ratio Lower Upper

142 100

127 47.9 34.2 51.4

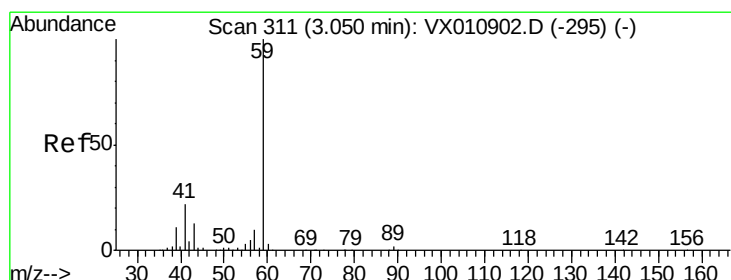
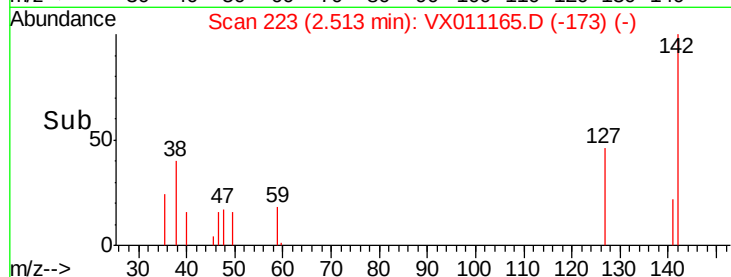
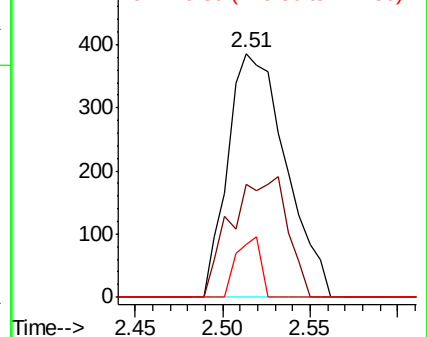
141 10.2 11.7 17.5#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



#11

Tert butyl alcohol

Concen: 3.254 ug/l

RT: 3.02 min Scan# 306

Delta R.T. -0.03 min

Lab File: VX011165.D

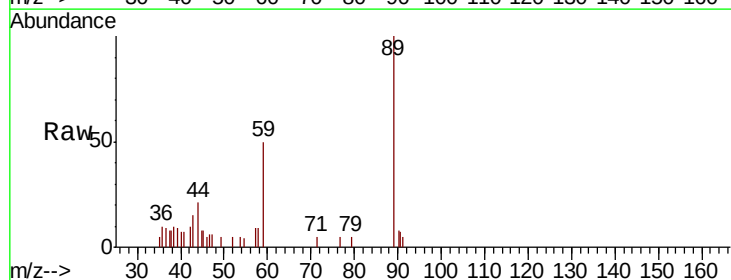
Acq: 29 Jul 2019 23:59

Tgt Ion: 59 Resp: 1474

Ion Ratio Lower Upper

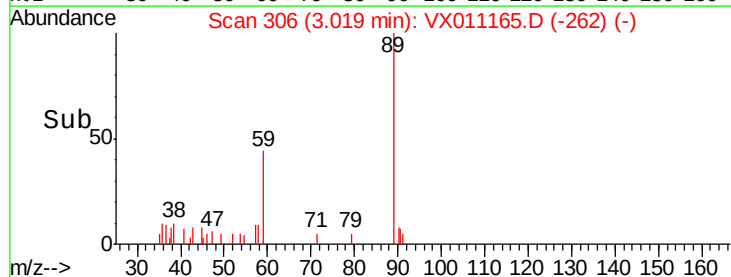
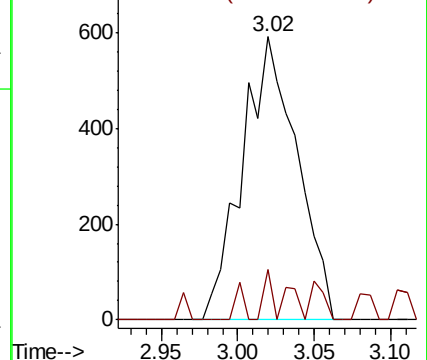
59 100

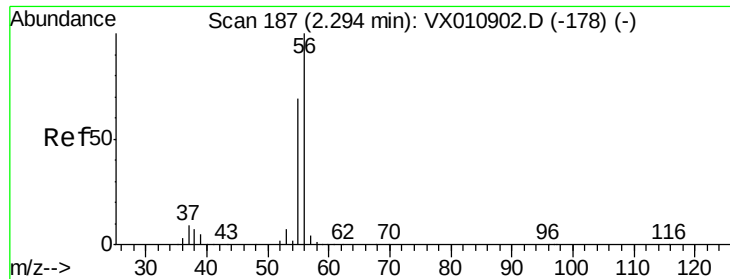
57 2.6 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.539 ug/l

RT: 2.30 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX011165.D

Acq: 29 Jul 2019 23:59

Instrument :

MSVOA_X

ClientSampleId :

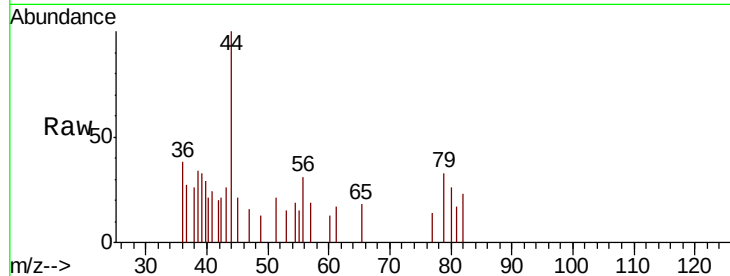
Z3-TB-2019-3

Tot Ion: 56 Resp: 141

Ion Ratio Lower Upper

56 100

55 63.8 55.9 83.9



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

150

100

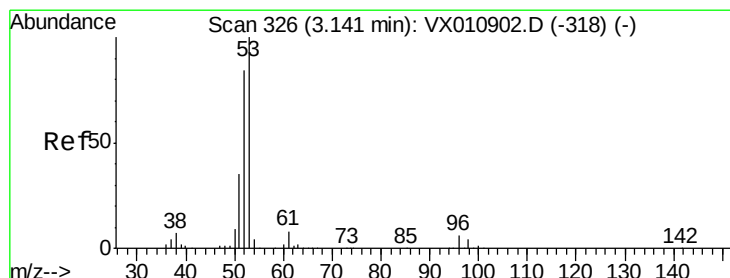
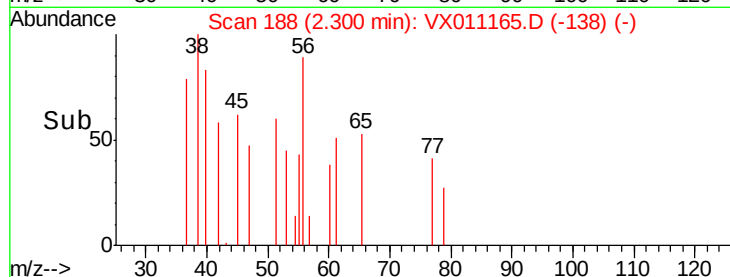
50

0

2.26 2.28 2.30 2.32

2.30

Time-->



#15

Acrylonitrile

Concen: 0.574 ug/l

RT: 3.16 min Scan# 329

Delta R.T. 0.02 min

Lab File: VX011165.D

Acq: 29 Jul 2019 23:59

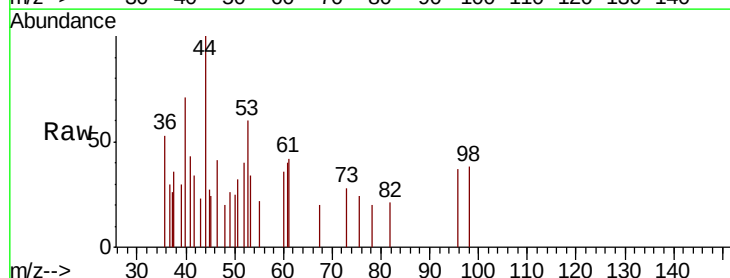
Tgt Ion: 53 Resp: 525

Ion Ratio Lower Upper

53 100

52 43.6 66.5 99.7#

51 18.7 28.2 42.4#



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

300

200

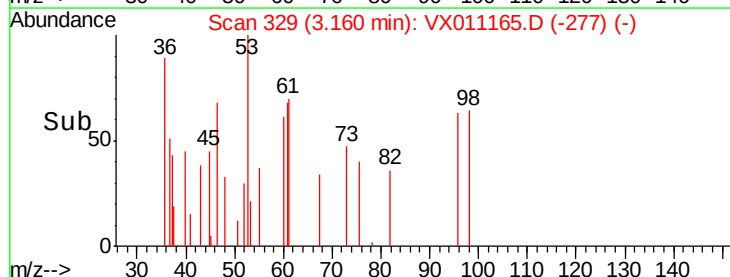
100

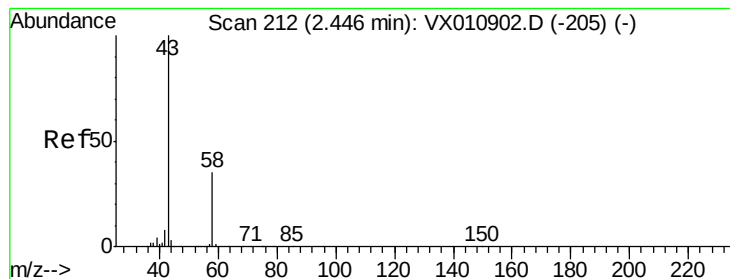
0

3.10 3.15 3.20

3.16

Time-->





#16

Acetone

Concen: 0.559 ug/l

RT: 2.45 min Scan# 213

Delta R.T. 0.01 min

Lab File: VX011165.D

Acq: 29 Jul 2019 23:59

Instrument :

MSVOA_X

ClientSampleId :

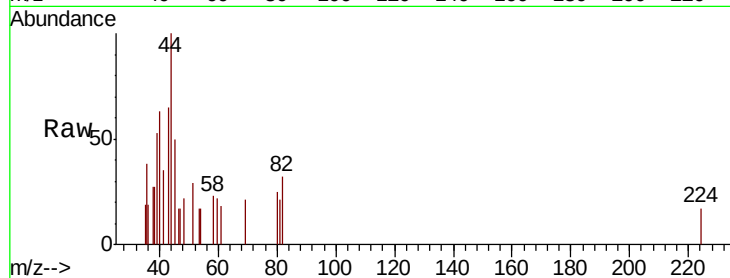
Z3-TB-2019-3

Tot Ion: 43 Resp: 491

Ion Ratio Lower Upper

43 100

58 53.0 27.7 41.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

250

200

150

100

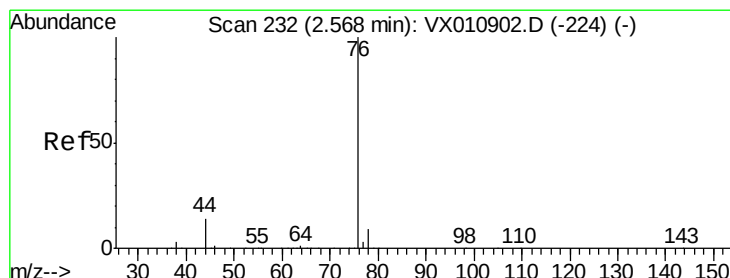
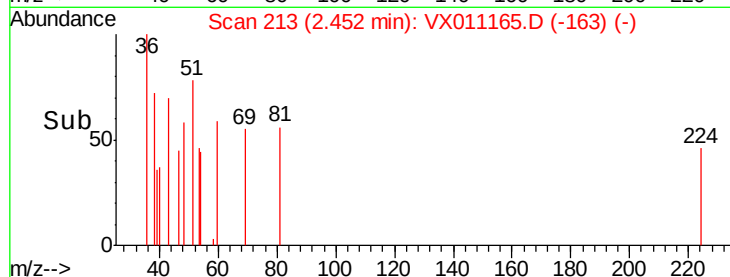
50

0

2.40

2.45

Time-->



#17

Carbon Disulfide

Concen: 0.280 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX011165.D

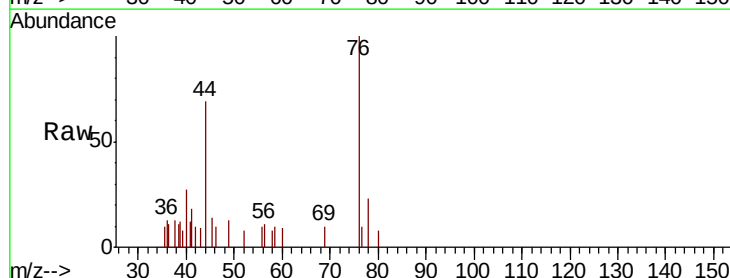
Acq: 29 Jul 2019 23:59

Tgt Ion: 76 Resp: 1170

Ion Ratio Lower Upper

76 100

78 22.6 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

800

600

400

200

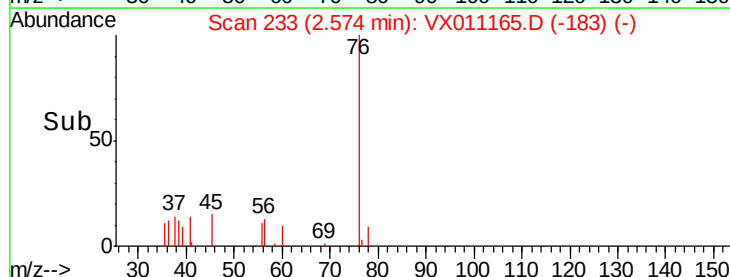
0

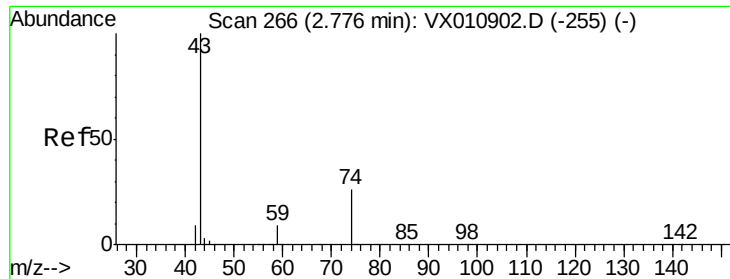
2.50

2.55

2.60

Time-->

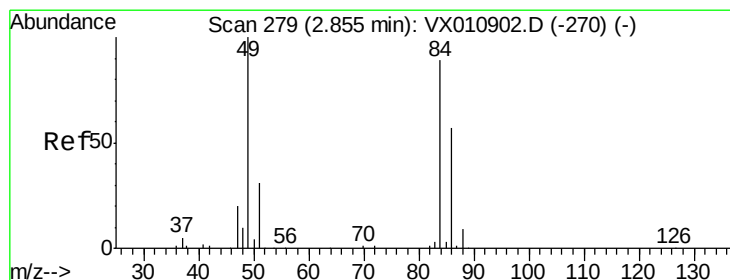
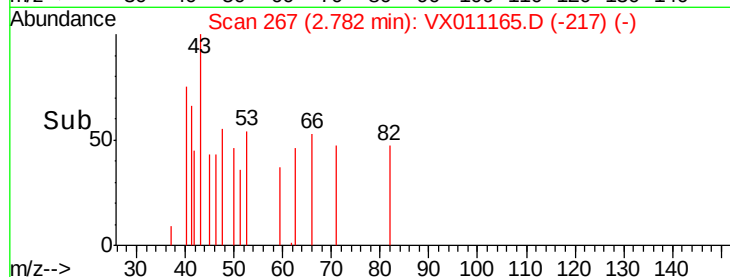
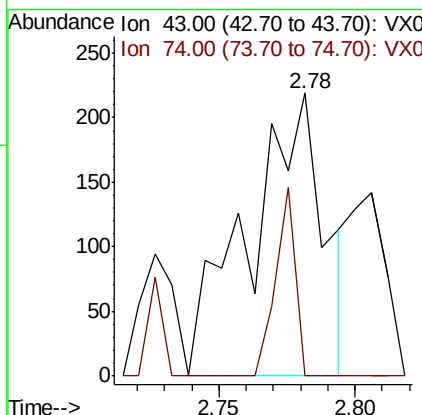
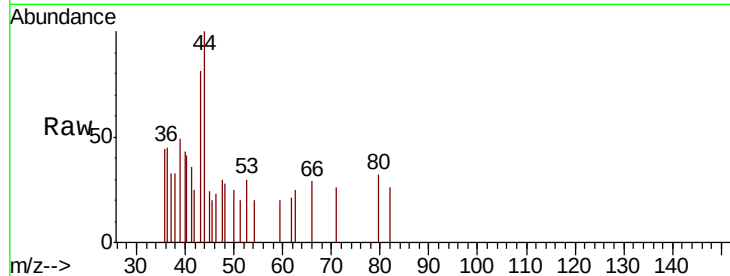




#18
Methyl Acetate
Concen: 0.210 ug/l
RT: 2.78 min Scan# 267
Delta R.T. 0.01 min
Lab File: VX011165.D
Acq: 29 Jul 2019 23:59

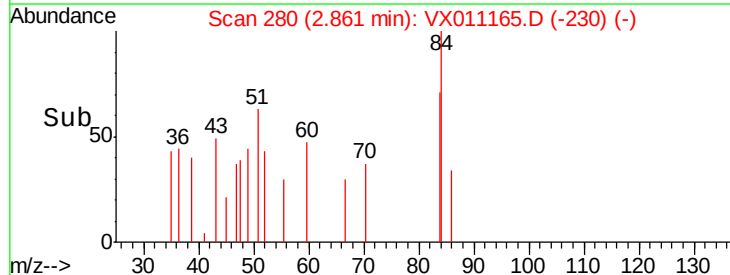
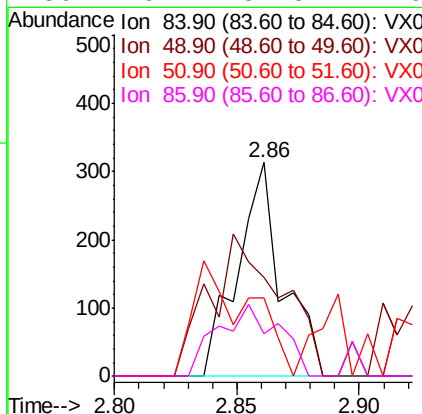
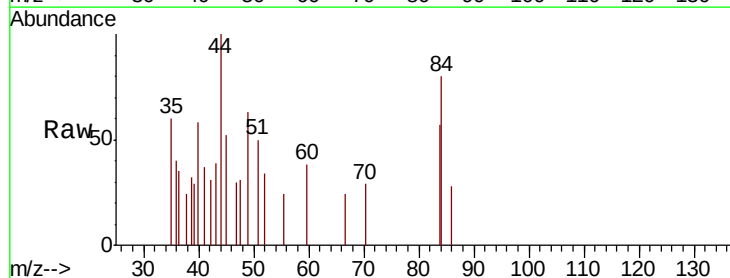
Instrument :
MSVOA_X
ClientSampled :
Z3-TB-2019-3

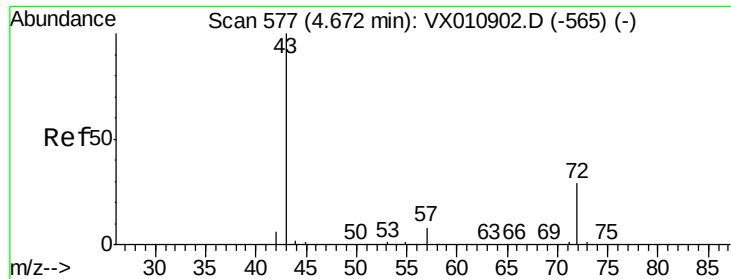
Tot Ion: 43 Resp: 420
Ion Ratio Lower Upper
43 100
74 17.4 21.5 32.3#



#20
Methylene Chloride
Concen: 0.215 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX011165.D
Acq: 29 Jul 2019 23:59

Tgt Ion: 84 Resp: 400
Ion Ratio Lower Upper
84 100
49 46.0 89.9 134.9#
51 12.8 27.8 41.6#
86 20.1 51.8 77.6#





#25

2-Butanone

Concen: 0.214 ug/l

RT: 4.67 min Scan# 576

Delta R.T. -0.01 min

Lab File: VX011165.D

Acq: 29 Jul 2019 23:59

Instrument :

MSVOA_X

ClientSampleId :

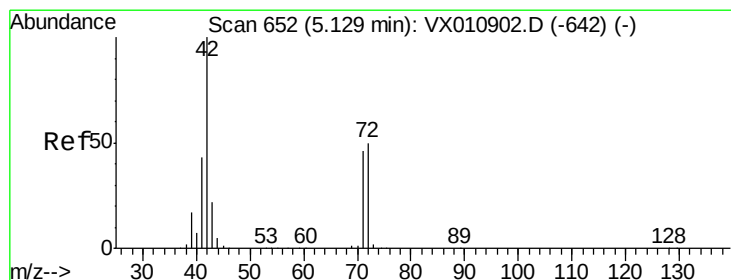
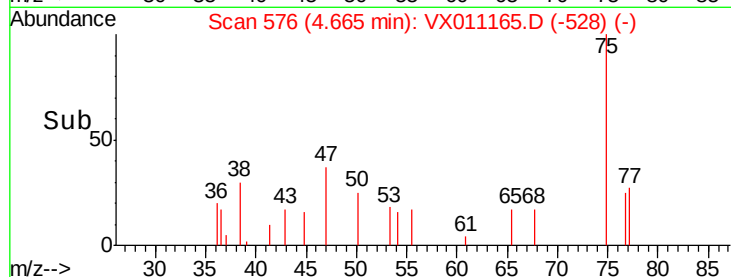
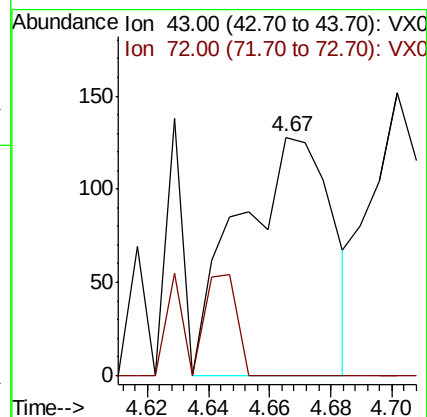
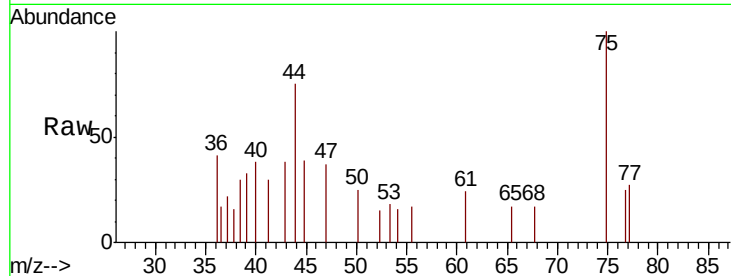
Z3-TB-2019-3

Tot Ion: 43 Resp: 270

Ion Ratio Lower Upper

43 100

72 0.0 23.0 34.6#



#29

Tetrahydrofuran

Concen: 0.262 ug/l

RT: 5.12 min Scan# 651

Delta R.T. -0.01 min

Lab File: VX011165.D

Acq: 29 Jul 2019 23:59

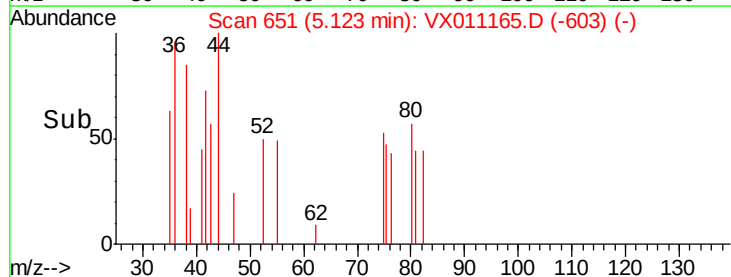
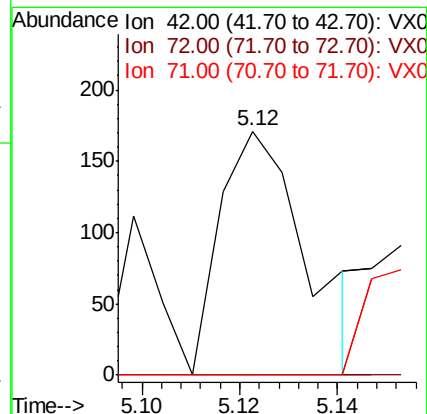
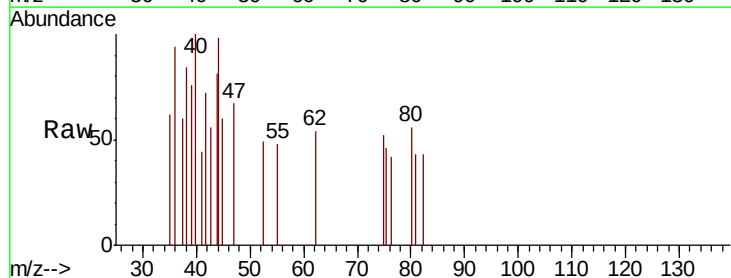
Tgt Ion: 42 Resp: 209

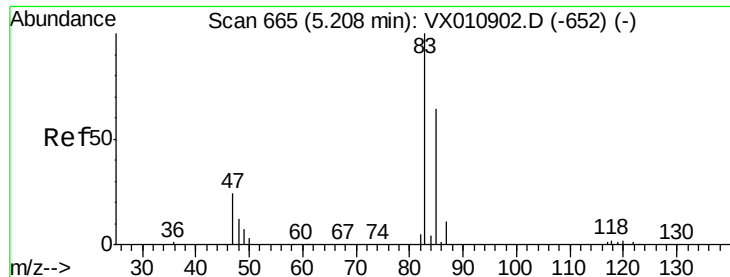
Ion Ratio Lower Upper

42 100

72 0.0 39.8 59.8#

71 0.0 37.0 55.4#

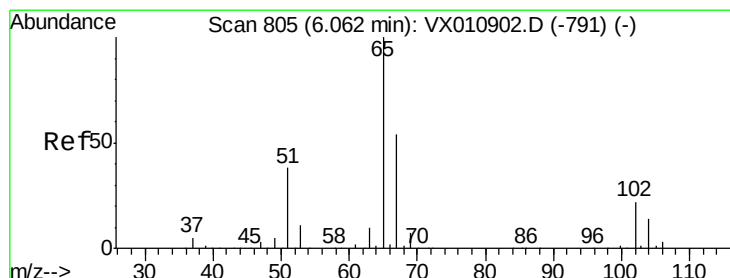
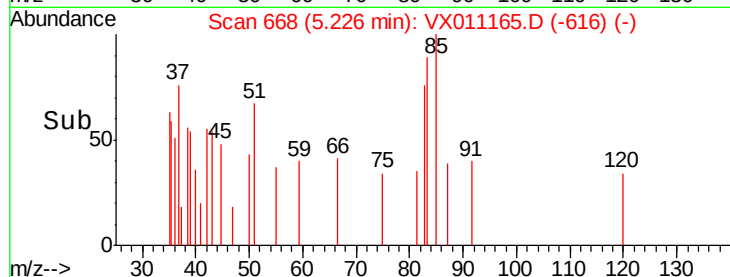
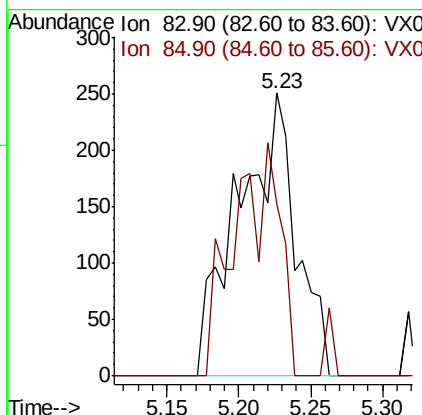
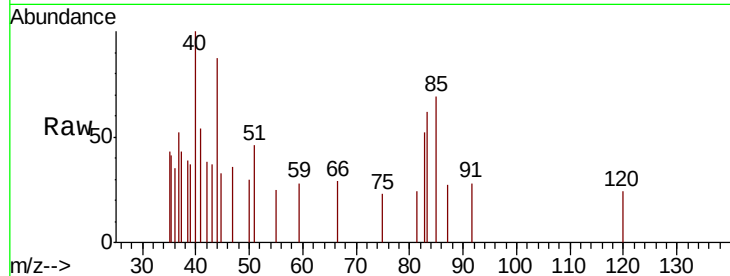




#30
Chloroform
Concen: 0.222 ug/l
RT: 5.23 min Scan# 668
Delta R.T. 0.02 min
Lab File: VX011165.D
Acq: 29 Jul 2019 23:59

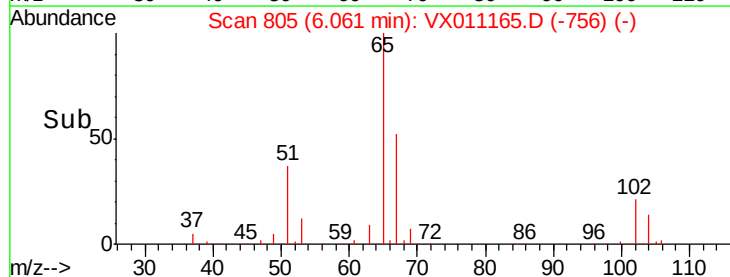
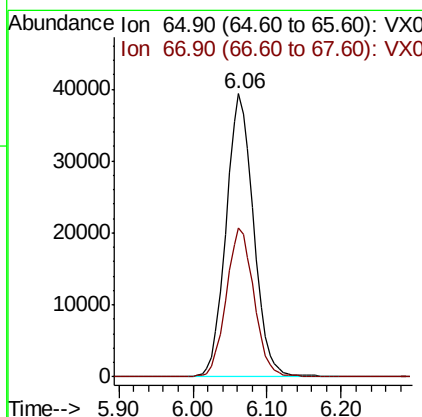
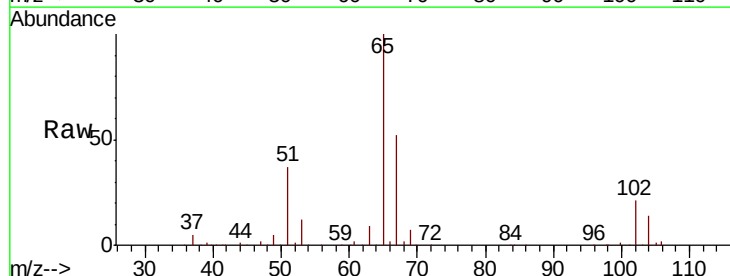
Instrument :
MSVOA_X
ClientSampleId :
Z3-TB-2019-3

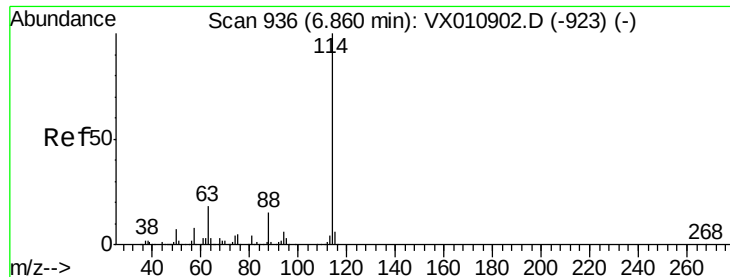
Tot Ion: 83 Resp: 694
Ion Ratio Lower Upper
83 100
85 60.6 51.4 77.0



#33
1,2-Dichloroethane-d4
Concen: 52.229 ug/l
RT: 6.06 min Scan# 805
Delta R.T. -0.00 min
Lab File: VX011165.D
Acq: 29 Jul 2019 23:59

Tgt Ion: 65 Resp: 101595
Ion Ratio Lower Upper
65 100
67 53.0 0.0 107.8

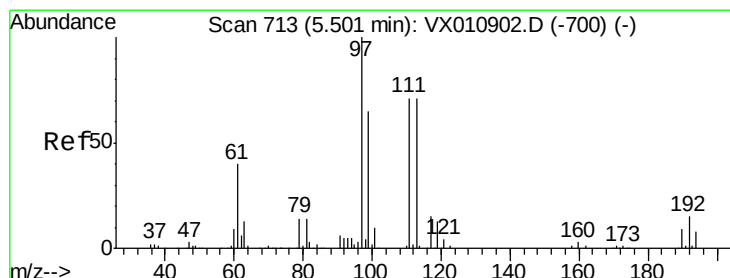
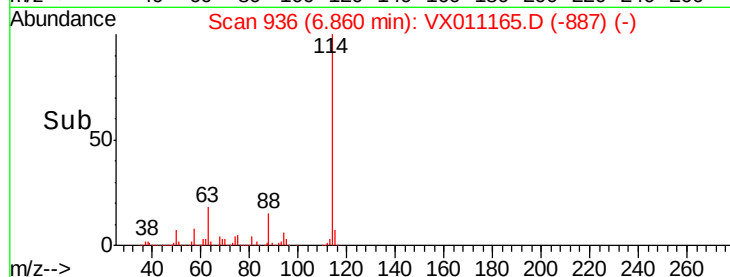
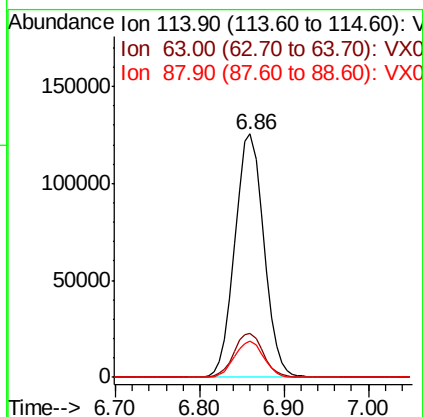
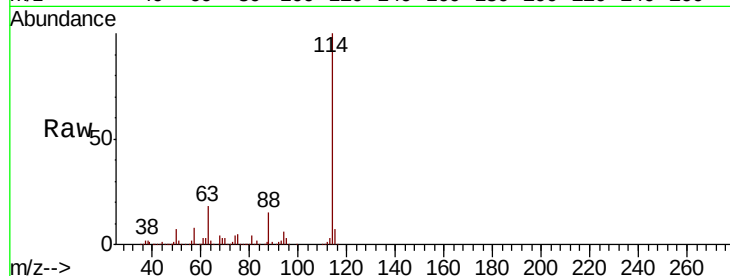




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.86 min Scan# 936
Delta R.T. -0.00 min
Lab File: VX011165.D
Acq: 29 Jul 2019 23:59

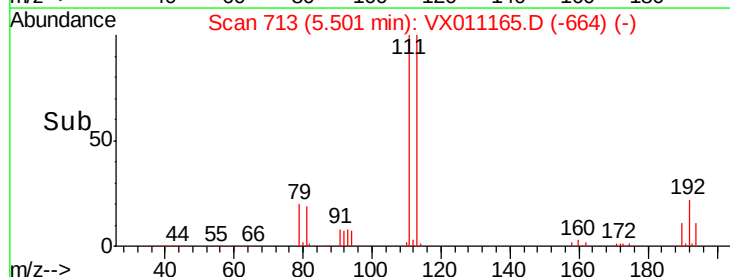
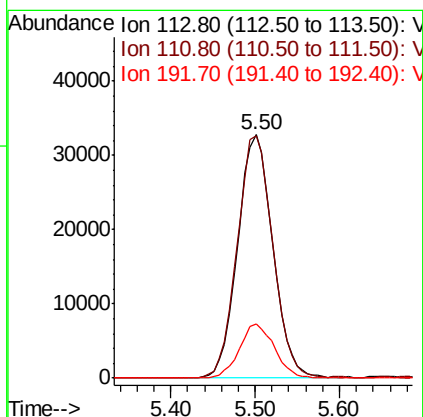
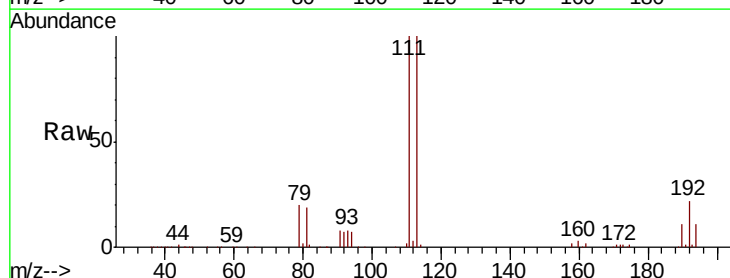
Instrument :
MSVOA_X
ClientSampleId :
Z3-TB-2019-3

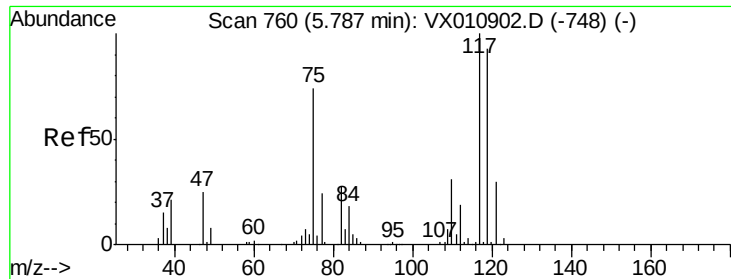
Tot Ion	Ratio	Lower	Upper
114	100		
63	18.0	0.0	35.6
88	14.8	0.0	29.8



#35
Dibromofluoromethane
Concen: 49.839 ug/l
RT: 5.50 min Scan# 713
Delta R.T. -0.00 min
Lab File: VX011165.D
Acq: 29 Jul 2019 23:59

Tgt Ion	Ratio	Lower	Upper
113	100		
111	100.8	82.3	123.5
192	22.1	17.4	26.2





#38

Carbon Tetrachloride

Concen: 6.861 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX011165.D

Acq: 29 Jul 2019 23:59

Instrument :

MSVOA_X

ClientSampled :

Z3-TB-2019-3

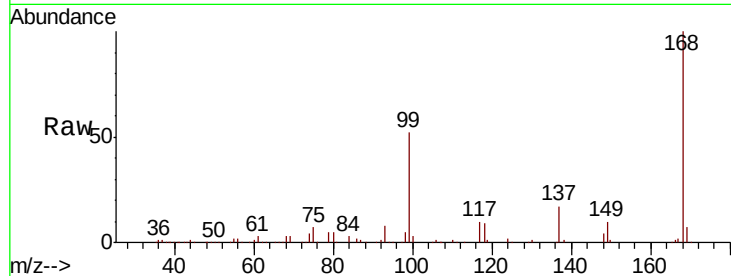
Tot Ion:117 Resp: 17183

Ion Ratio Lower Upper

117 100

119 5.5 74.2 111.2#

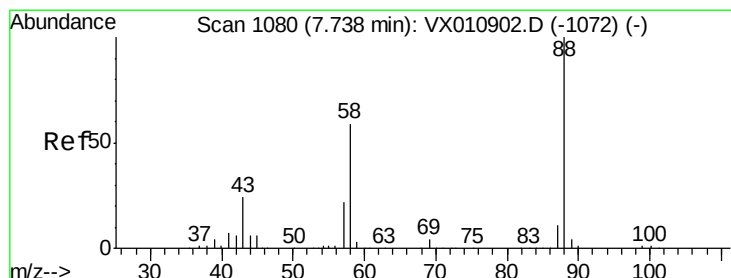
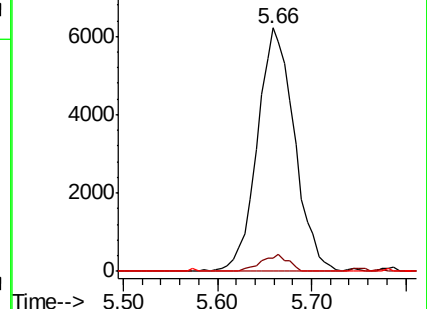
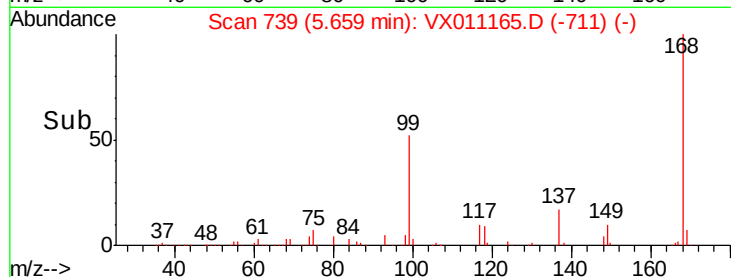
121 0.0 24.2 36.2#



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: 0.345 ug/l

RT: 7.81 min Scan# 1091

Delta R.T. 0.07 min

Lab File: VX011165.D

Acq: 29 Jul 2019 23:59

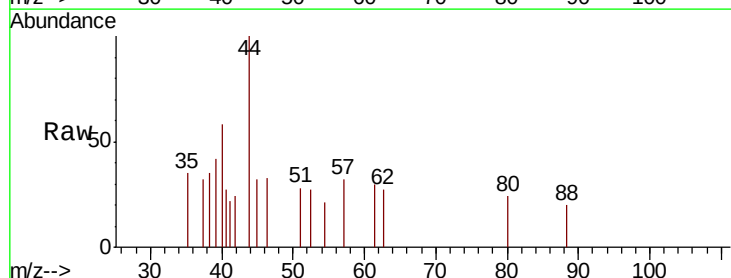
Tgt Ion: 88 Resp: 19

Ion Ratio Lower Upper

88 100

43 389.5 22.9 34.3#

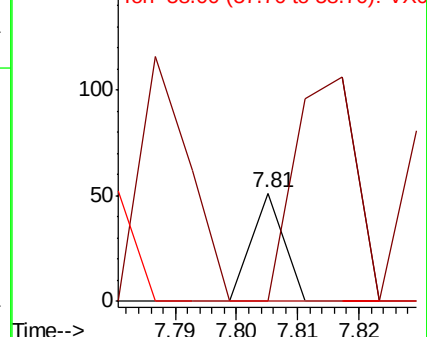
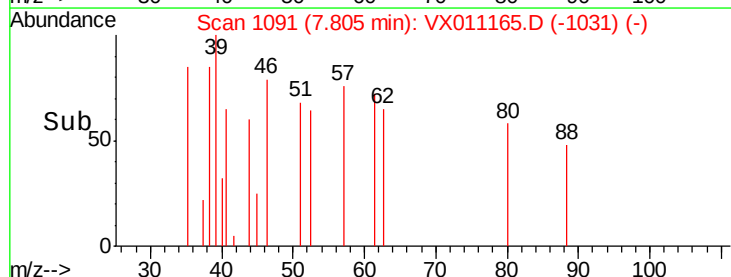
58 0.0 49.8 74.8#

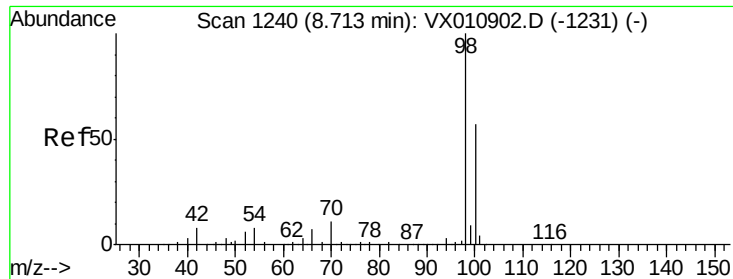


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

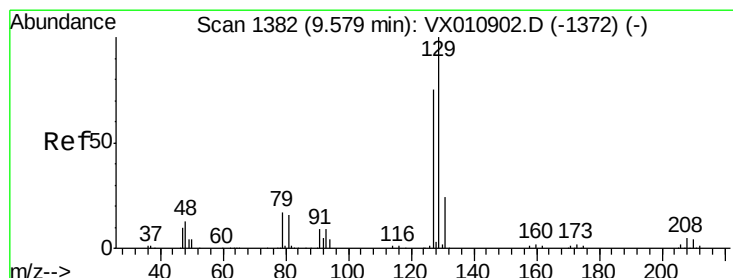
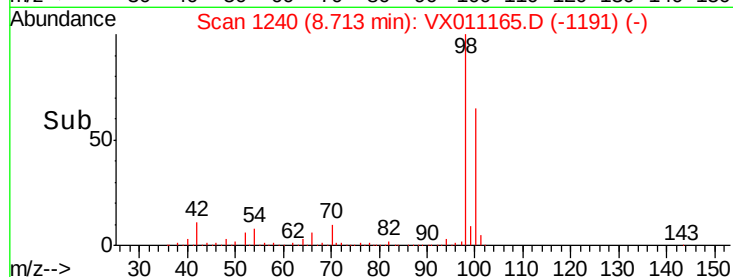
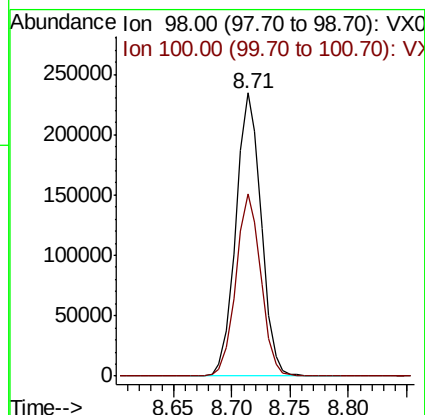
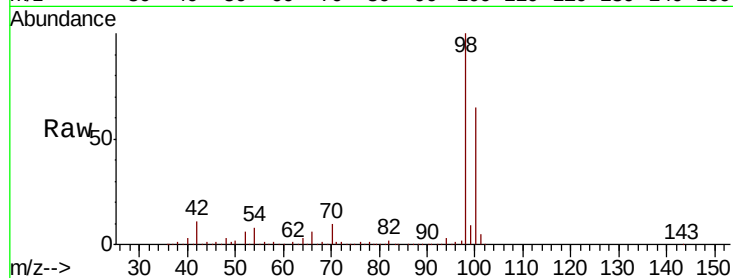




#50
Toluene-d8
Concen: 51.130 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX011165.D
Acq: 29 Jul 2019 23:59

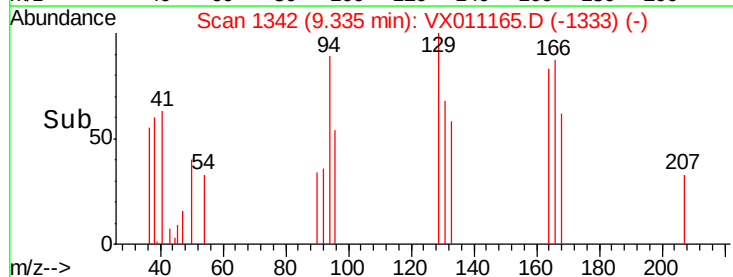
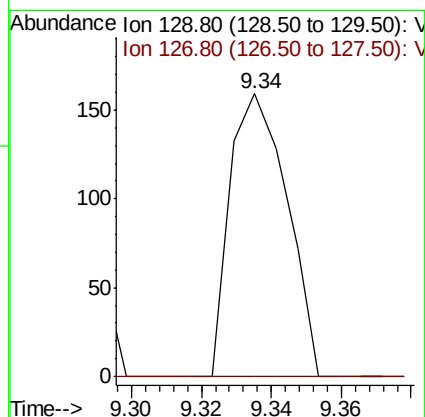
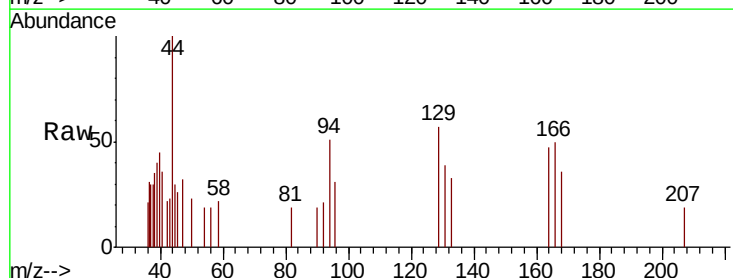
Instrument :
MSVOA_X
ClientSampled :
Z3-TB-2019-3

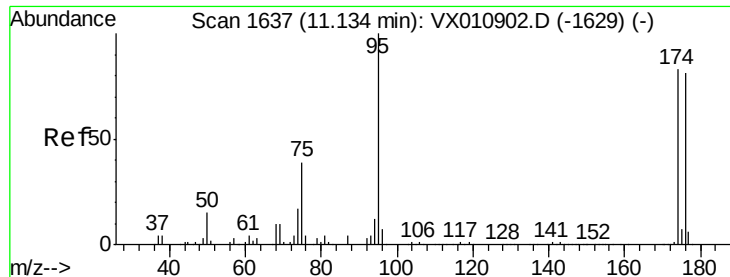
Tot Ion: 98 Resp: 356150
Ion Ratio Lower Upper
98 100
100 63.6 50.6 75.8



#60
Dibromochloromethane
Concen: 2.602 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.24 min
Lab File: VX011165.D
Acq: 29 Jul 2019 23:59

Tgt Ion: 129 Resp: 180
Ion Ratio Lower Upper
129 100
127 0.0 38.6 115.8#





#62

4-Bromofluorobenzene

Concen: 48.473 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX011165.D

Acq: 29 Jul 2019 23:59

Instrument :

MSVOA_X

ClientSampleId :

Z3-TB-2019-3

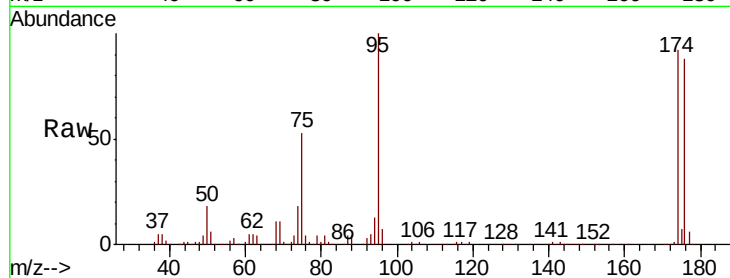
Tot Ion: 95 Resp: 124107

Ion Ratio Lower Upper

95 100

174 91.3 0.0 180.6

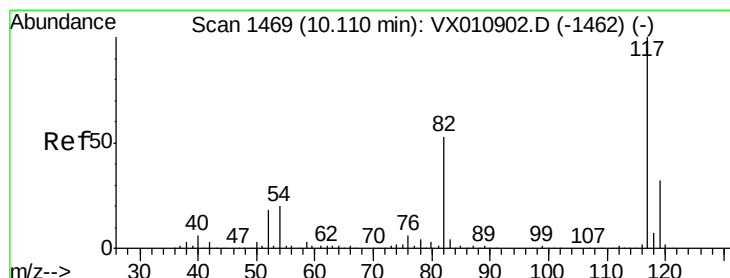
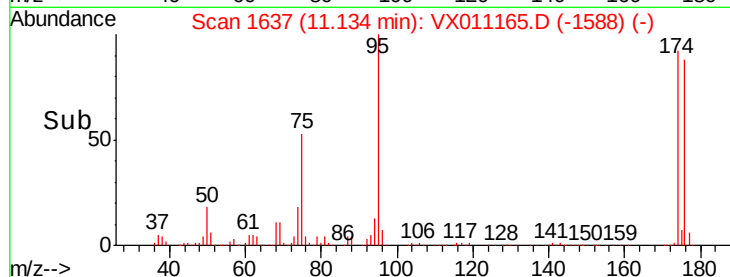
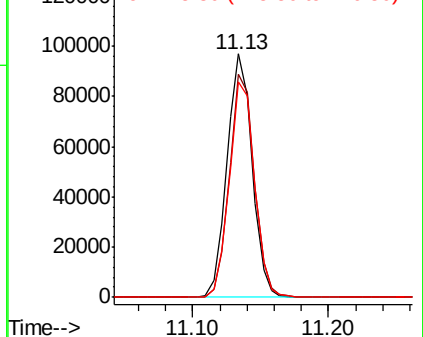
176 89.4 0.0 173.8



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



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX011165.D

Acq: 29 Jul 2019 23:59

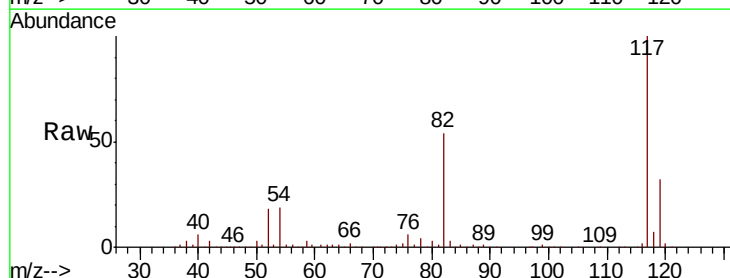
Tgt Ion: 117 Resp: 275655

Ion Ratio Lower Upper

117 100

82 53.6 42.6 63.8

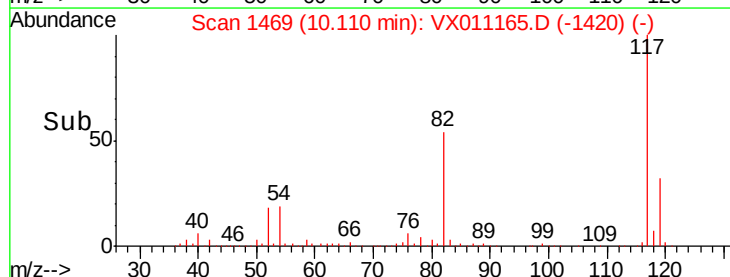
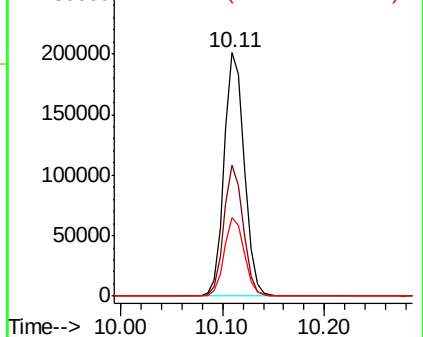
119 32.1 25.9 38.9

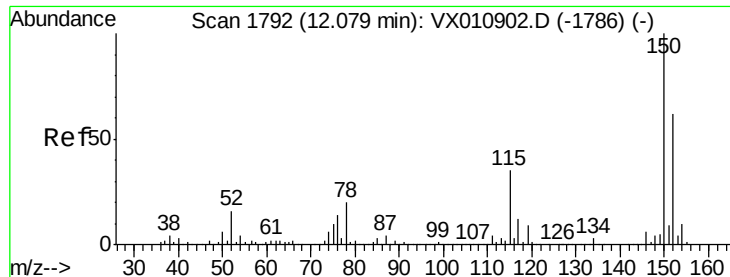


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V



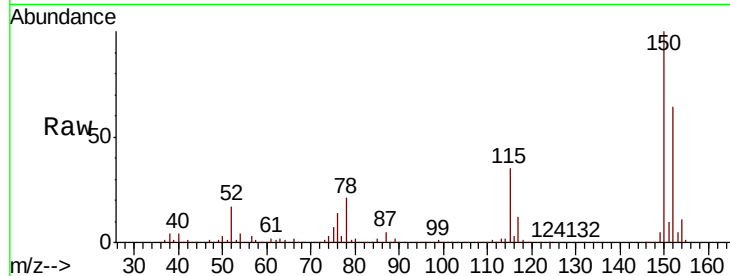


#72

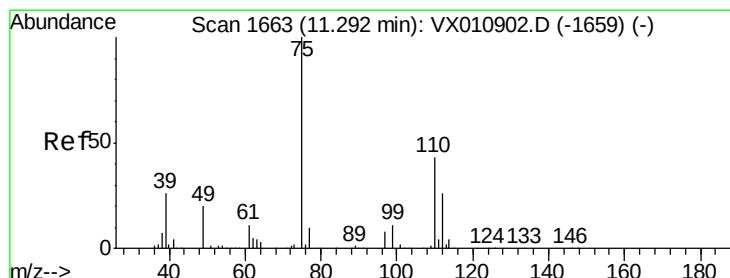
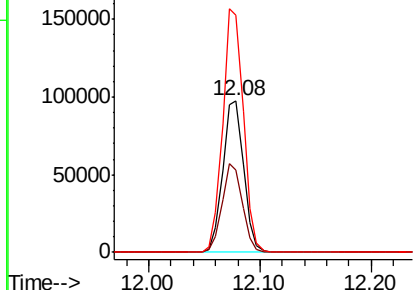
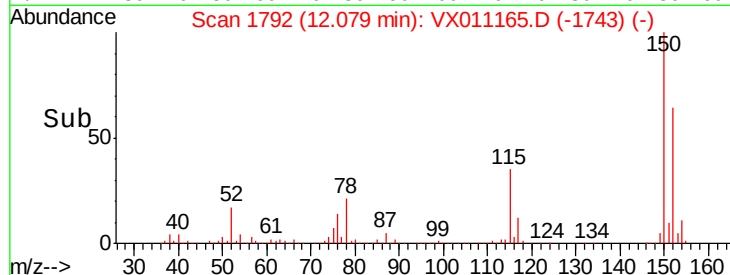
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX011165.D
Acq: 29 Jul 2019 23:59

Instrument :
MSVOA_X
ClientSampleId :
Z3-TB-2019-3

Tot Ion:152 Resp: 126922
Ion Ratio Lower Upper
152 100
115 56.8 39.7 119.1
150 158.8 0.0 345.6



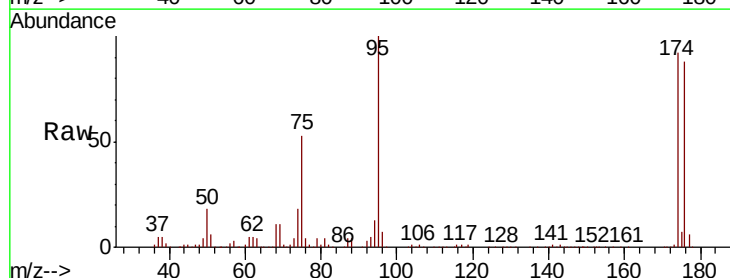
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



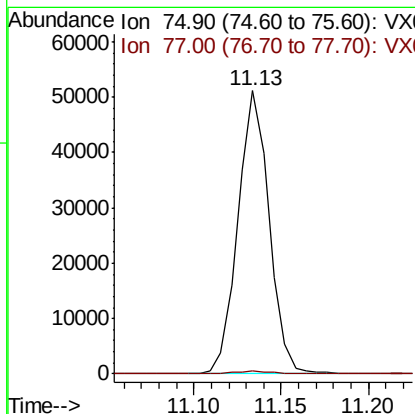
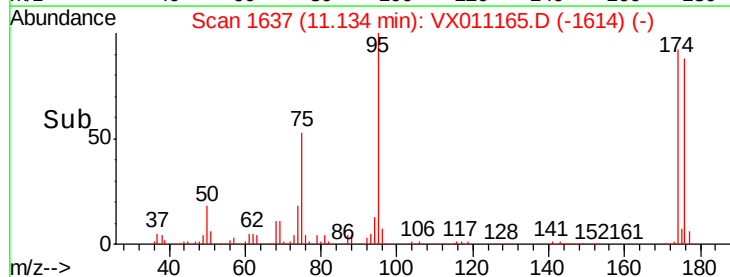
#76

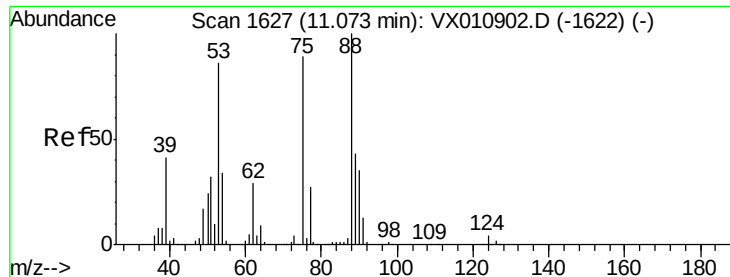
1,2,3-Trichloropropane
Concen: 27.619 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.16 min
Lab File: VX011165.D
Acq: 29 Jul 2019 23:59

Tgt Ion: 75 Resp: 63258
Ion Ratio Lower Upper
75 100
77 1.2 21.3 64.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 68.385 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011165.D

Acq: 29 Jul 2019 23:59

Instrument :

MSVOA_X

ClientSampleId :

Z3-TB-2019-3

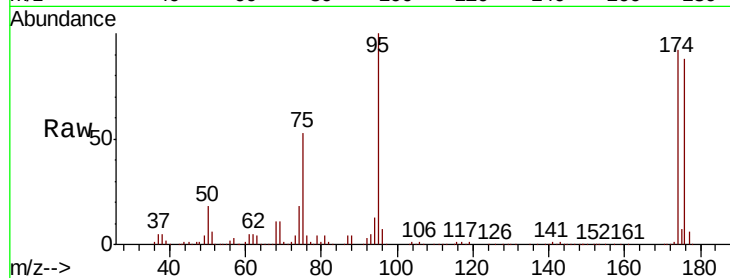
Tot Ion: 75 Resp: 63258

Ion Ratio Lower Upper

75 100

53 0.2 76.7 115.1#

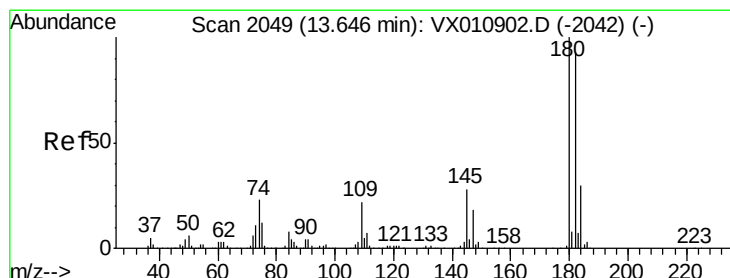
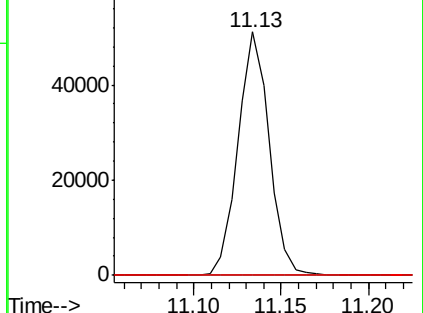
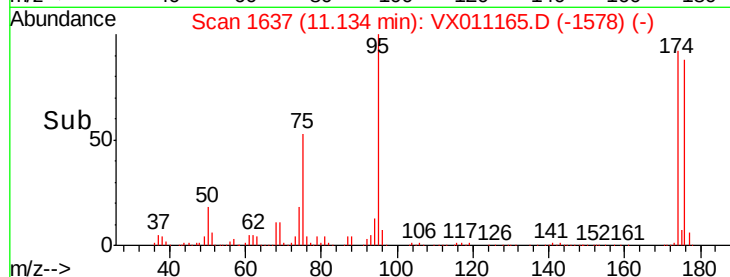
89 0.1 38.5 57.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#93

1,2,4-Trichlorobenzene

Concen: 0.229 ug/l

RT: 13.65 min Scan# 2049

Delta R.T. -0.00 min

Lab File: VX011165.D

Acq: 29 Jul 2019 23:59

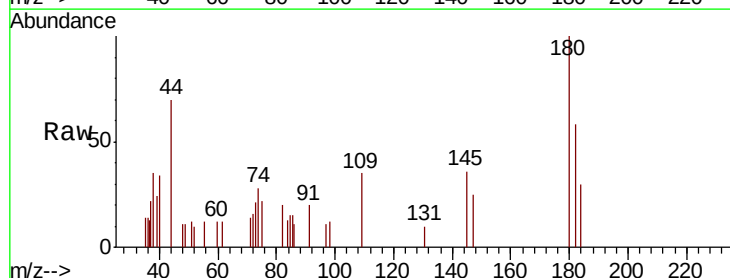
Tgt Ion: 180 Resp: 631

Ion Ratio Lower Upper

180 100

182 67.5 47.1 141.3

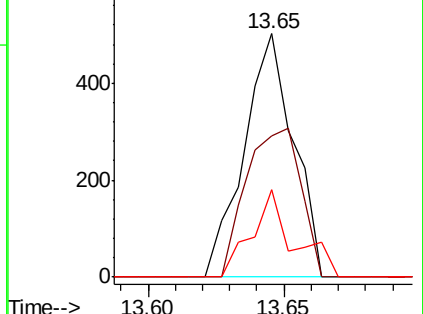
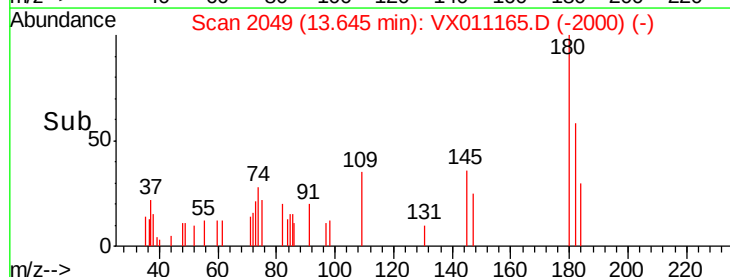
145 30.3 14.8 44.4

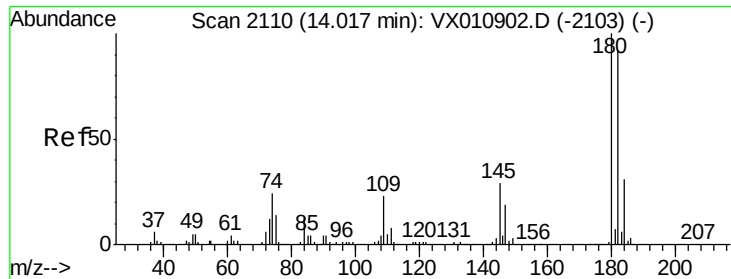


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V

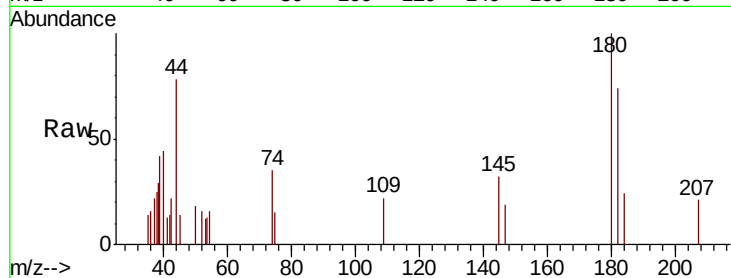




#96
 1,2,3-Trichlorobenzene
 Concen: 0.215 ug/l
 RT: 14.02 min Scan# 2111
 Delta R.T. 0.01 min
 Lab File: VX011165.D
 Acq: 29 Jul 2019 23:59

Instrument :
 MSVOA_X
 ClientSampleId :
 Z3-TB-2019-3

Tot Ion	Ratio	Lower	Upper
180	100		
182	83.8	47.4	142.3
145	29.4	15.1	45.3



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.90 (144.60 to 145.60): V

